

DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

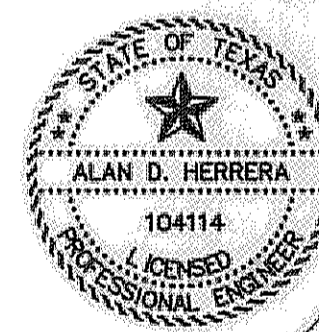
A PORTION OF TRACT 8 LAURA E. MUNDY SURVEY No. 238, ALL OF TRACTS 12 AND 13 AND A PORTION OF TRACTS 10A AND 10E NELLIE D. MUNDY SURVEY No. 239, AND A PORTION OF NELLIE D. MUNDY SURVEY No. 244, CITY OF EL PASO, EL PASO COUNTY, TEXAS;
APPROXIMATELY 59.34 ACRES±



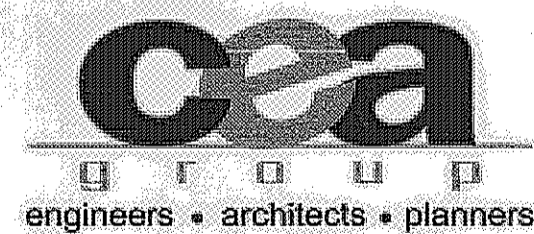
VICINITY MAP
APPROXIMATE SCALE:
1" = 2 MILES

RECORD DRAWINGS
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
10/24/2013

| SHEET NUMBER | SHEET TITLE |
|----------------------|--|
| CVR & 1 | COVER SHEET - HEADING WITH LEGAL DESCRIPTION AND NUMBER OF ACRES; INDEX OF SHEETS; VICINITY MAP, LOCATION MAP; PRINCIPAL CONTACTS, TITLE - REVISION BLOCK AND ENGINEER'S SEAL. |
| C1 | GENERAL NOTES |
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| C3 | CONSTRUCTION PHASING PLAN, TRANSMOUNTAIN DEMOLITION PLAN, TRANSMOUNTAIN IMPROVEMENTS & GRADING PLANS |
| C4 | DRAINAGE PLANS |
| C5 | GRADING SECTIONS |
| C6 | STREET PLAN & PROFILES |
| C7 | STORM SEWER PLAN & PROFILES |
| C8 | POND DESIGN PLANS |
| C9 | CHANNEL DESIGN AND CULVERT DESIGN PLANS |
| C10 | STANDARD DETAILS |
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| C12 | TRANSMOUNTAIN STRIPING, ILLUMINATION, STRIPING & SIGNAGE |
| C13 | STORM WATER POLLUTION PREVENTION PLANS |
| C14 | WATER LINE INDEX |
| C15 | WATER PLANS |
| C16 | WATER DETAILS |
| C17 | SANITARY SEWER INDEX |
| C18 | SANITARY SEWER PLAN & PROFILES |
| C19 | SANITARY SEWER DETAILS |
| L1.00 - L6.00 | LANDSCAPING PLANS |



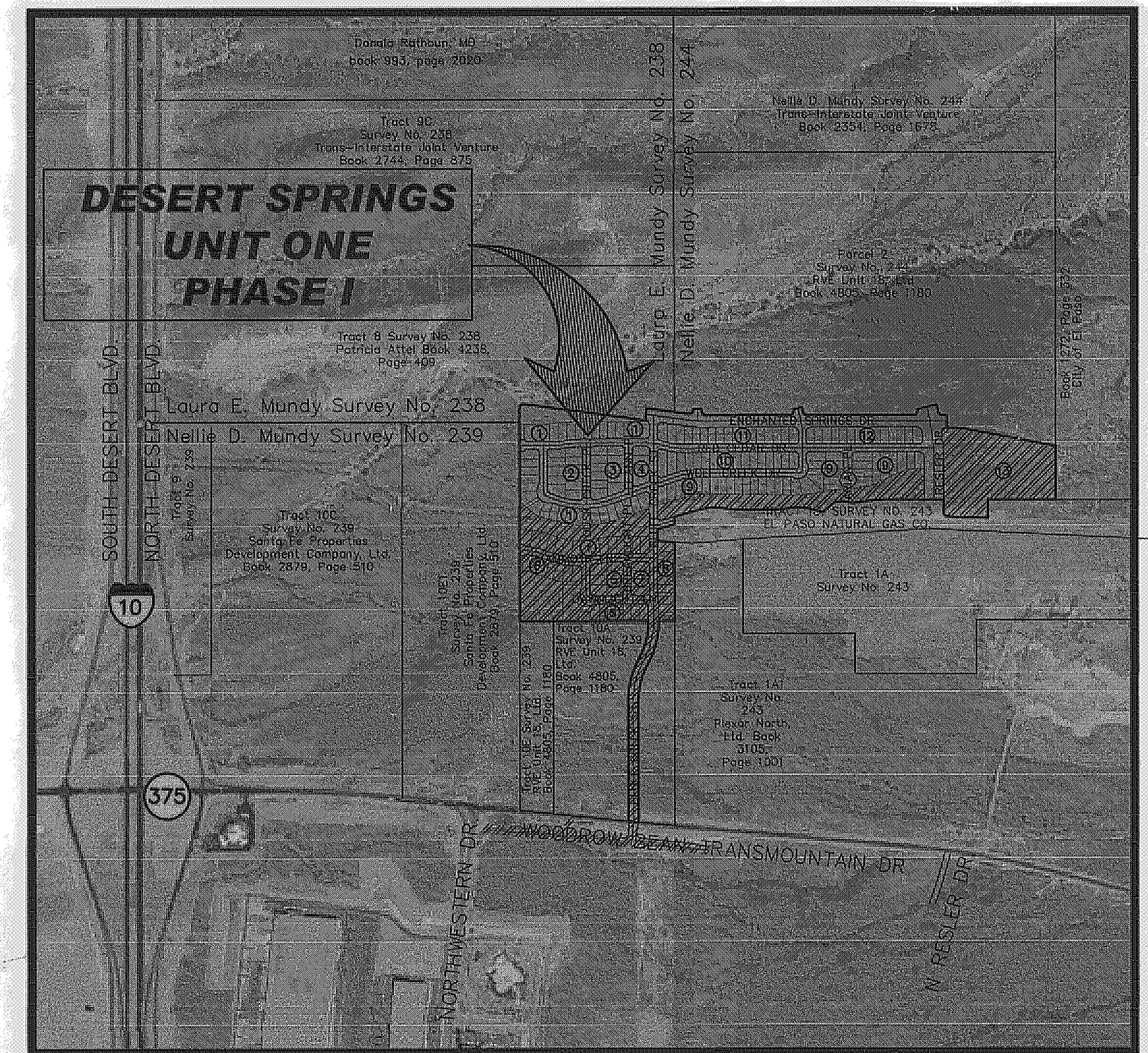
ALAN D. HERRERA, P.E. PROJECT MANAGER



Castner Center @ Transmountain
4712 Woodrow Bean, Ste. F El Paso, TX 79924
Office: 915.544.5232 Fax: 915.544.5233 www.ceagroup.net
TEXAS FIRM REGISTRATION NO. 4564

PRINCIPAL CONTACTS:

| | NAME | ADDRESS | CITY & ZIP | PHONE | FAX |
|------------------|-----------------------------------|-------------------------------|----------------|----------------|----------------|
| OWNER: | RPW DEVELOPMENT | 7910 GATEWAY EAST, SUITE 102 | EL PASO, 79915 | (915) 591-6319 | (915) 591-5451 |
| OWNER: | DVEP LAND LLC | 7910 GATEWAY EAST, SUITE 102 | EL PASO, 79915 | (915) 591-6319 | (915) 591-5451 |
| OWNER: | EP TRANSMOUNTAIN RESIDENTIAL, LCC | 1790 LEE TREVINO, STE. 601 | EL PASO, 79936 | (915) 592-0290 | (915) 592-0290 |
| ENGINEER: | CEA GROUP | 4712 WOODROW BEAN, SUITE F | EL PASO, 79924 | (915) 544-5232 | (915) 544-5233 |
| SURVEYOR: | BARRAGAN & ASSOCIATES | 10950 PELLICANO DRIVE, BLDG F | EL PASO, 79936 | (915) 591-5709 | (915) 591-5706 |



LOCATION MAP
APPROXIMATE SCALE:
1" = 600'

DESERT SPRINGS UNIT ONE - PHASE I

| COVER SHEET | | | | |
|-----------------|----------------------|-------------------------|------------------|-----------------------|
| DATE PREPARED | DRAWN BY: | DESIGN BY: | CHECKED BY: | APPROVED BY: |
| MAY 2012 | J.M. | A.H. | J.L.A. | A.H. |
| REVISION NUMBER | SHEET NAME OR NUMBER | DESCRIPTION OF REVISION | DATE OF REVISION | REVISION APPROVED BY: |
| | | | | |
| | | | | |
| | | | | |

GENERAL NOTES

- 1. THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF WITH THE PROJECT SITE PRIOR TO SUBMITTING BIDS.
2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AUTOMOBILE AND PEDESTRIAN ACCESS TO THE USER AT ALL TIMES, INCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS. THIS INCLUDES, BUT IS NOT LIMITED TO DRIVEWAYS, STREETS, PARKING, AND WALKWAYS. THIS REQUIREMENT SHALL BE FULFILLED AT NO EXTRA COST TO THE OWNER.
3. CONTRACTOR SHALL WATER CONSTRUCTION AREA A MINIMUM OF TWICE A DAY TO KEEP DUST TO A MINIMUM - ONCE IN THE MORNING AND BEFORE QUITTING TIME. THIS SHALL ALSO BE DONE DURING WEEKENDS AND HOLIDAYS.
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES.
5. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE AND PERFORM WORK SO AS TO ASSURE PROPER PASSAGE OF STORM RUNOFF DURING THE COURSE OF THE OPERATIONS. ALL LABOR, TOOLS, EQUIPMENT, AND SUPERVISION REQUIRED TO ASSURE SUCH PROPER PASSAGE OF RUNOFF WATER AND ANY REMOVAL OR HANDLING OF WATER IN ORDER TO MAINTAIN DRY CONDITIONS SHALL BE CONSIDERED INCIDENTAL TO THE WORK, AND SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE USER, ALL UTILITIES, AND ALL OTHER AGENCIES WITH JURISDICTION OVER THE PROJECT.
7. ALL EXISTING PAVEMENT, ADJACENT UTILITIES, STRUCTURES, ETC., DISTURBED AS A RESULT OF THE NEW CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
8. THE OWNER WILL FURNISH HORIZONTAL AND VERTICAL CONTROL REFERENCED POINTS ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES FOUND SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER, OTHERWISE THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THEIR CORRECTNESS.
9. FOR ELEVATIONS, REFERENCE BENCHMARK IN TITLE BLOCK FOR ADDITIONAL INFORMATION.
10. VIBRATORY ROLLERS WILL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT, UNLESS APPROVED IN WRITING BY THE ENGINEER AND CITY OF EL PASO.
11. ALL WORK REQUIRED BY THESE PLANS SHALL BE CONDUCTED IN CONFORMANCE WITH CURRENT SAFETY CODES AND STANDARDS WITH JURISDICTION OVER THE PROJECT.
12. THE LOCATION OF THE FLUMES AND INLETS SHALL BE AT THE FIELD LOW POINT AND APPROVED BY THE ENGINEER PRIOR TO PAVING AND PLACEMENT OF STRUCTURES.
13. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE FINAL CITY OF EL PASO APPROVED SUBDIVISION PLANS PRIOR TO COMMENCING ANY CONSTRUCTION WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO REPLACE ANY WORK NOT PERFORMED AS PER THE CITY APPROVED PLANS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE CITY OF EL PASO APPROVED PLANS ARE ALWAYS ACCESSIBLE AT THE JOB SITE FOR REVIEW BY SUB-CONTRACTORS, THE OWNER, THE ENGINEER AND CITY STAFF.
14. SIDEWALKS SHALL BE BUILT BY BUILDER UNLESS SPECIFIED ELSEWHERE IN PLANS.
15. NO BLASTING SHALL BE PERMITTED.
16. THE CONTRACTOR SHALL FIELD VERIFY ELEVATIONS, MEASUREMENTS AND EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. NOTIFY THE ENGINEER PROMPTLY OF ANY OMISSIONS, ERRORS, OR DISCREPANCIES FOUND SO THAT NECESSARY CORRECTIONS AND INTERPRETATIONS BE MADE PRIOR TO CONSTRUCTION.
17. ALL CONSTRUCTION PRACTICES AND PROCEDURES WILL COMPLY WITH THE PERTINENT PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH STANDARD (TITLE 29, CODE OF FEDERAL REGULATIONS) PUBLISHED BY THE OSHA, DEPARTMENT OF LABOR.
18. THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN OKTEX (ALSO TGS EASEMENT AND LEA COUNTY GAS COMPANY EASEMENT) EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT, NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.
19. PROPOSED TEMPORARY FIVE (5') FOOT HIGH DIVERSION DIKE/BERM & PRIVATE DRAINAGE STRUCTURES SHALL BE MAINTAINED BY THE DEVELOPER.
20. DESERT SPRINGS UNITS ONE AND TWO ARE TO BE BUILT CONCURRENTLY. REFER TO DESERT SPRINGS UNIT TWO SUBDIVISION IMPROVEMENTS FOR ADDITIONAL INFORMATION.

GRADING SPECIFICATIONS

- 1. CLEARING AND GRUBBING: CLEAR SITE OF TREES, SHRUBS AND OTHER VEGETATION; COMPLETELY REMOVE STUMPS, ROOTS AND OTHER DEBRIS PROTRUDING THROUGH GROUND SURFACE; FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY FILL MATERIAL, UNLESS FURTHER EXCAVATION OF EARTHWORK IS INDICATED; REMOVE EXISTING ABOVE-GRADE AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION. BURNING IS NOT PERMITTED ON OWNER'S PROPERTY. REMOVE WASTE MATERIALS FROM OWNER'S PROPERTY.
2. SATISFACTORY FILL MATERIALS: FILL MATERIALS SHALL BE FREE OF ANY ORGANIC OR DELETERIOUS SUBSTANCE AND SHALL NOT CONTAIN ROCKS OR LUMPS OVER THREE (3) INCHES IN GREATEST DIMENSION AND SHALL BE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, GC, SM, SP, SM, AND SC, OR UNLESS OTHERWISE APPROVED BY THE DESIGN ENGINEER, GEOTECHNICAL ENGINEER OR CITY ENGINEER.
3. UNSATISFACTORY FILL MATERIAL: ARE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS ML, MH, CL, CH, OL, OH, AND PT, OR WHERE THE PLASTICITY INDEX EXCEEDS TWELVE (12)
4. EXCAVATION: IS UNCLASSIFIED AND INCLUDES EXCAVATION TO ELEVATIONS INDICATED, REGARDLESS OF CHARACTER OF MATERIAL AND OBSTRUCTIONS ENCOUNTERED.
5. GROUND SURFACE PREPARATION FOR FILL: REMOVE VEGETATION, DEBRIS, UNSATISFACTORY SOIL MATERIAL, OBSTRUCTIONS, AND DELETERIOUS MATERIAL FROM GROUND SURFACE UPON WHICH THE FILL IS TO BE PLACED. THE SURFACE SHALL THEN BE SCARIFIED TO A DEPTH OF AT LEAST SIX (6) INCHES, AND UNTIL THE SURFACE IS FREE FROM RUTS, HUMMOCKS OR OTHER UNEVEN FEATURES WHICH WOULD PREVENT UNIFORM COMPACTION. PLOW STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN ONE (1) VERTICAL TO FOUR (4) HORIZONTAL SO THAT FILL MATERIAL WILL BOND WITH EXISTING SURFACE. AFTER PLOWING AND SCARIFYING FILL AREA, IT SHALL THEN BE DISCED OR BLADED UNTIL IT IS UNIFORM AND FREE FROM LARGE CLODS, BROUGHT TO OPTIMUM MOISTURE, AND COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557.
6. PLACEMENT OF FILL: PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN EIGHT (8) INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN FOUR (4) INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTURE CONTENT. PLACE FILL MATERIALS EVENLY ADJACENT TO SITE APPURTENANCES, PIPING, OR CONDUIT TO REQUIRED ELEVATIONS. PREVENT WEDGING ACTION OF BACKFILL AGAINST SITE APPURTENANCES OR DISPLACEMENT OF PIPING OR CONDUIT BY CARRYING MATERIAL UNIFORMLY AROUND SITE APPURTENANCES, PIPING, OR CONDUIT TO APPROXIMATELY SAME ELEVATION IN EACH LIFT. COMPACT SOIL TO NOT LESS THAN 95% OF MAXIMUM DENSITY, IN ACCORDANCE WITH ASTM D1557.
7. MOISTURE CONTROL: WHERE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE CONDITIONED FOR OPTIMUM MOISTURE BEFORE COMPACTION, UNIFORMLY APPLY WATER TO SURFACE OF SUBGRADE OR LAYER OF SOIL MATERIAL. APPLY WATER IN MINIMUM QUANTITY AS NECESSARY TO PREVENT FREE WATER FROM APPEARING ON SURFACE DURING OR SUBSEQUENT TO COMPACTION OPERATIONS. WATER CONTENT SHALL BE WITHIN TWO (2%) PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY.
8. QUALITY CONTROL: THE OWNER SHALL PROVIDE A GEOTECHNICAL ENGINEER TO PERFORM FIELD DENSITY TEST OF THE COMPACTION OF EACH LAYER OF FILL. DENSITY TESTS SHALL BE TAKEN IN THE COMPACTED MATERIAL BELOW THE DISTURBED SURFACE. WHEN THESE TESTS INDICATE THAT THE DENSITY OF ANY LAYER OF FILL OR PORTION THEREOF IS BELOW THE REQUIRED DENSITY, THE PARTICULAR LAYER OR PORTION SHALL BE REWORKED UNTIL THE REQUIRED DENSITY HAS BEEN OBTAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL TESTING AND WHEN REQUIRED DENSITIES ARE NOT MET, SUPERVISION BY THE GEOTECHNICAL ENGINEER IS REQUIRED DURING THE GRADING OPERATIONS TO ENSURE GRADING WORK IN ACCORDANCE WITH THIS PLAN AND SPECIFICATIONS.

RECORD DRAWINGS

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UTILITY LOCATOR SERVICES

Table listing utility locator services with company names and phone numbers: EL PASO ELECTRIC COMPANY (915) 543-5720, EL PASO ENERGY CORPORATION (915) 498-5244, EL PASO WATER UTILITIES (915) 594-5500, MCI SURVEILLANCE (800) MCI-WORK, TIME WARNER COMMUNICATIONS (915) 772-1123, TEXAS GAS SERVICE (915) 680-7200, ONEOK PARTNERS (915) 595-6918, AT&T (800) 852-3786, U.S. SPRINT TELECOMM (800) 521-0579, CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750 (AFTER HOURS), (915) 240-3220

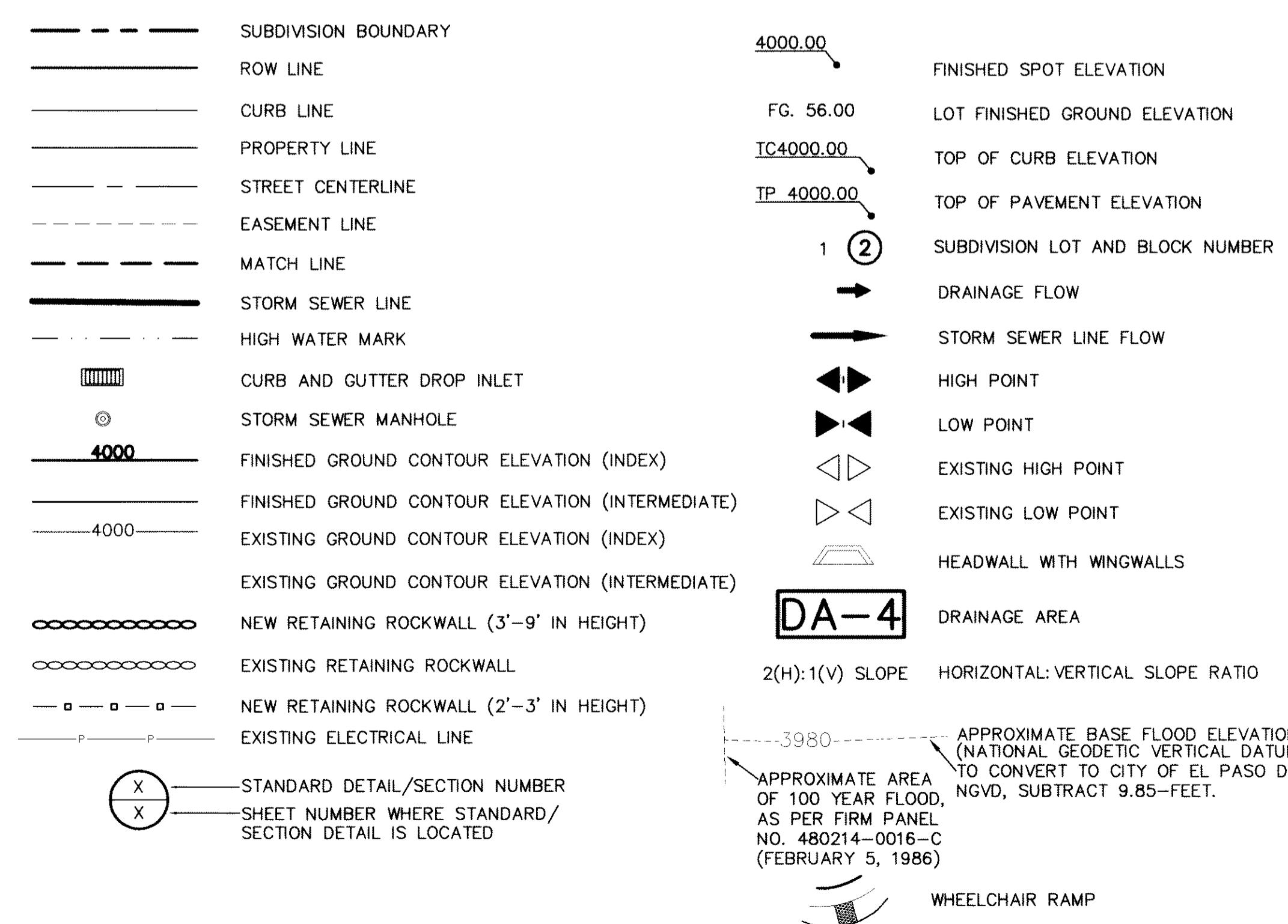
WARNING! BEFORE YOU DIG

CALL 1-800-DIG-TESS 1-800-344-8377 FOR FIELD LOCATING EXISTING UTILITIES

INDEX OF DRAWINGS

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LEGEND



ABBREVIATIONS

Table of abbreviations: LP LOW POINT, HP HIGH POINT, ELEV ELEVATION, STA STATION, VCS VERTICAL CURVE STATION, VCE VERTICAL CURVE ELEVATION, TC TOP OF CURB, TP TOP OF PAVEMENT, TYP TYPICAL, PVI POINT OF VERTICAL CURVE, PVT POINT OF VERTICAL TANGENT, AD ALGEBRAIC DIFFERENCE, CR CURVE RETURN, ROW RIGHT OF WAY, CL CENTER LINE, PL PROPERTY LINE, FG FINISH GRADE, FF FINISH FLOOR, EG EXISTING GRADE, MIN. MINIMUM, RCP REINFORCED CONCRETE PIPE, Q QUANTITY, CAP CAPACITY, EXP EXPECTED, INV INVERT, CFS CUBIC FEET PER SECOND, A AREA, DA DRAINAGE AREA, LF LINEAR FEET, STD STANDARD, CONC CONCRETE, PC POINT OF CURVATURE, PI POINT OF INTERSECTION, PT POINT OF TANGENT, L LENGTH, S SLOPE, TEMP TEMPORARY, V VELOCITY IN FEET PER SECOND, HGL HYDRAULIC GRADE LINE, HWSE HIGH WATER SURFACE ELEVATION

REFERENCES - BENCHMARKS: FOUND N.E.S. SURVEY MARKER STATION 'CONINO 1880' ELEVATION: 3925.83 (CITY OF EL PASO VERTICAL DATUM) 3946.11 (NAVD 88 DATUM) 3946.11 (CITY OF EL PASO VERTICAL DATUM) TIE TO THE PROJECT BENCHMARK IS NAD83/82/E. 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

CEA logo and contact information: engineers • architects • planners, Center @ Transmountain, 7714 West Loop West, Suite 7780, Dallas, TX 75240, Phone: 972.354.8200, Fax: 972.354.8203, www.ceainc.com, TEXAS FIRM REGISTRATION NO. 4984

ENGINEER'S SEAL: A circular seal for Alan D. Mundy, Professional Engineer, State of Texas, License No. 10414, dated 06/14/13.

SCALE table: Horizontal: N/A, Vertical: N/A, Contour Interval: N/A, DATE: JUNE 2012, DESIGN BY: A.H., DRAWN BY: J.M., CHKD. BY: J.L.A., APP'D. BY: A.H., JOB No. 2050-013-ID

PROJECT TITLE: DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

SHEET TITLE: GENERAL INFORMATION (SHEET 1 OF 2) SHEET NO. C1.1

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| WATER PLAN VIEWS - DAWNLIGHT LN, DREAMLIGHT PL, DEWBERRY PL & NORTHVIEW ST. | C15.7 |
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RECORD DRAWINGS
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 10/24/2013

| 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) 880-7200 |
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| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

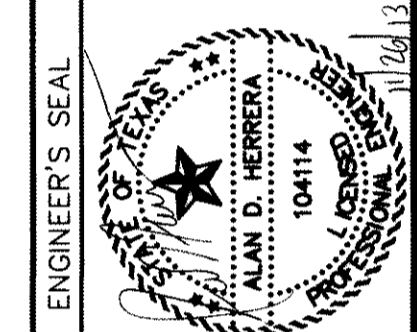
WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

| DATE | REVISIONS | BY |
|------|-----------|----|
| | | |
| | | |
| | | |

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| DRAWING NAME | SHEET NO. |
|--|-----------|
| SANITARY SEWER PLAN & PROFILE - LINE E FROM STA: 0+00.00 TO 3+88.29 | C18.10 |
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| IRRIGATION PLAN (SHEET 3 OF 3) | L6.00 |

cega
 U T O U P
 engineers • architects • planners
 Chester Center @ Farmers Courtyard
 1014
 Office: 915.544.5232 Fax: 915.544.5235 www.cega.com
 TEXAS FIRM REGISTRATION NO. 4864



| SCALE | |
|-------------------|-------------|
| Horizontal: | N/A |
| Vertical: | N/A |
| Contour Interval: | N/A |
| DATE: | JUNE 2012 |
| DESIGN BY: | A.H. |
| DRAWN BY: | J.M. |
| CHKD. BY: | J.L.A. |
| APP'D. BY: | A.H. |
| JOB No. | 2050-013-ID |

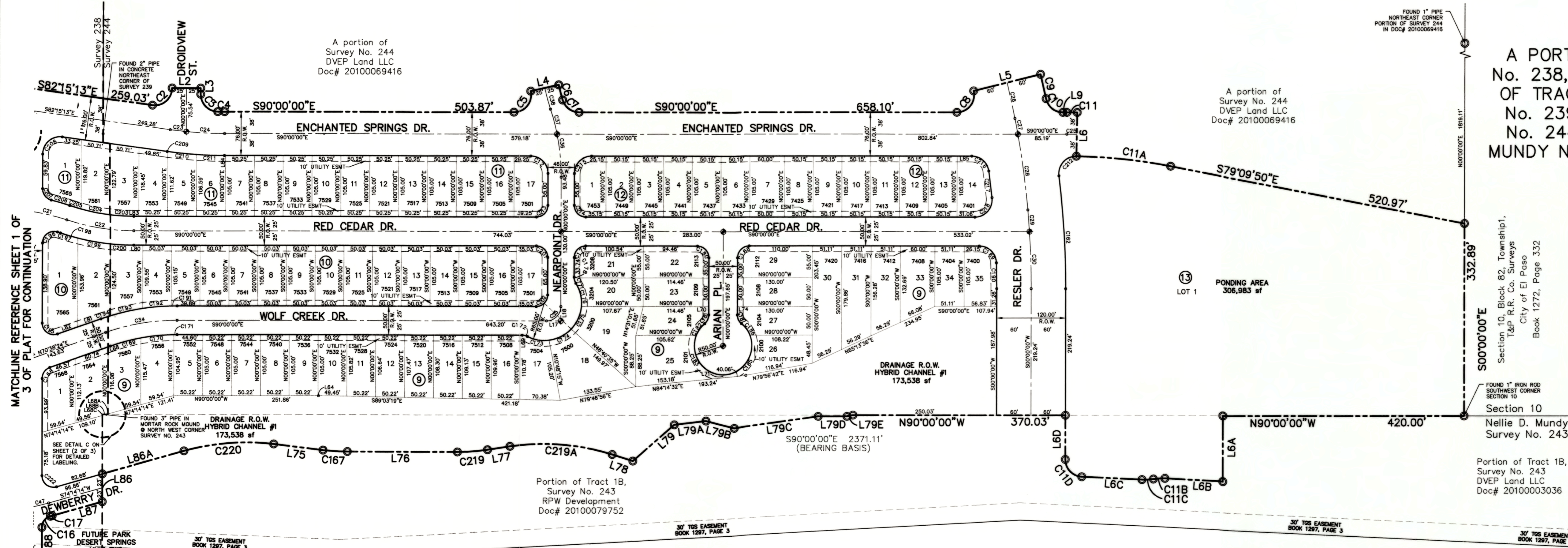
PROJECT TITLE
DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SHEET TITLE
GENERAL INFORMATION
 (SHEET 2 OF 2)
 SHEET NO.

C1.2

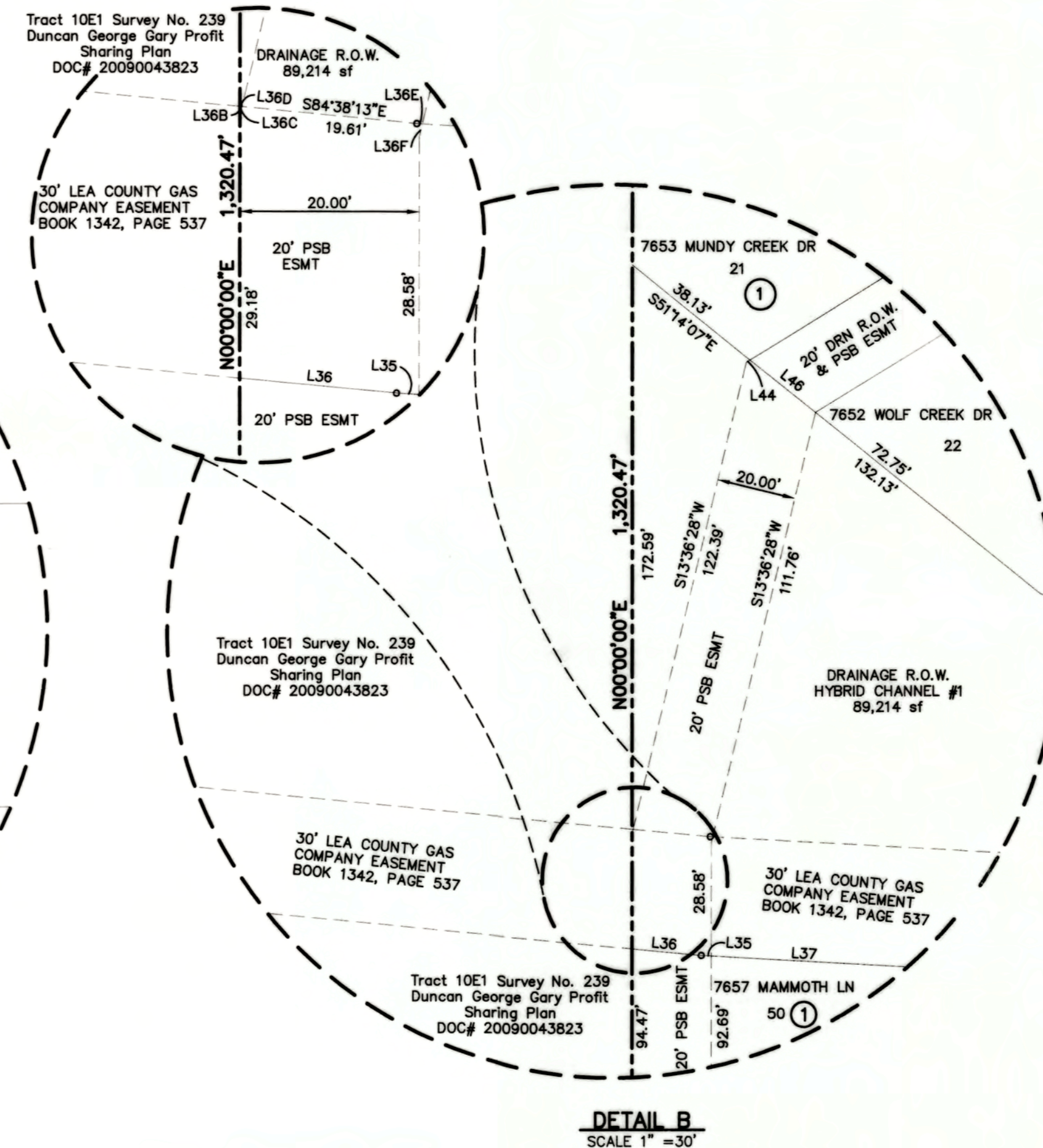
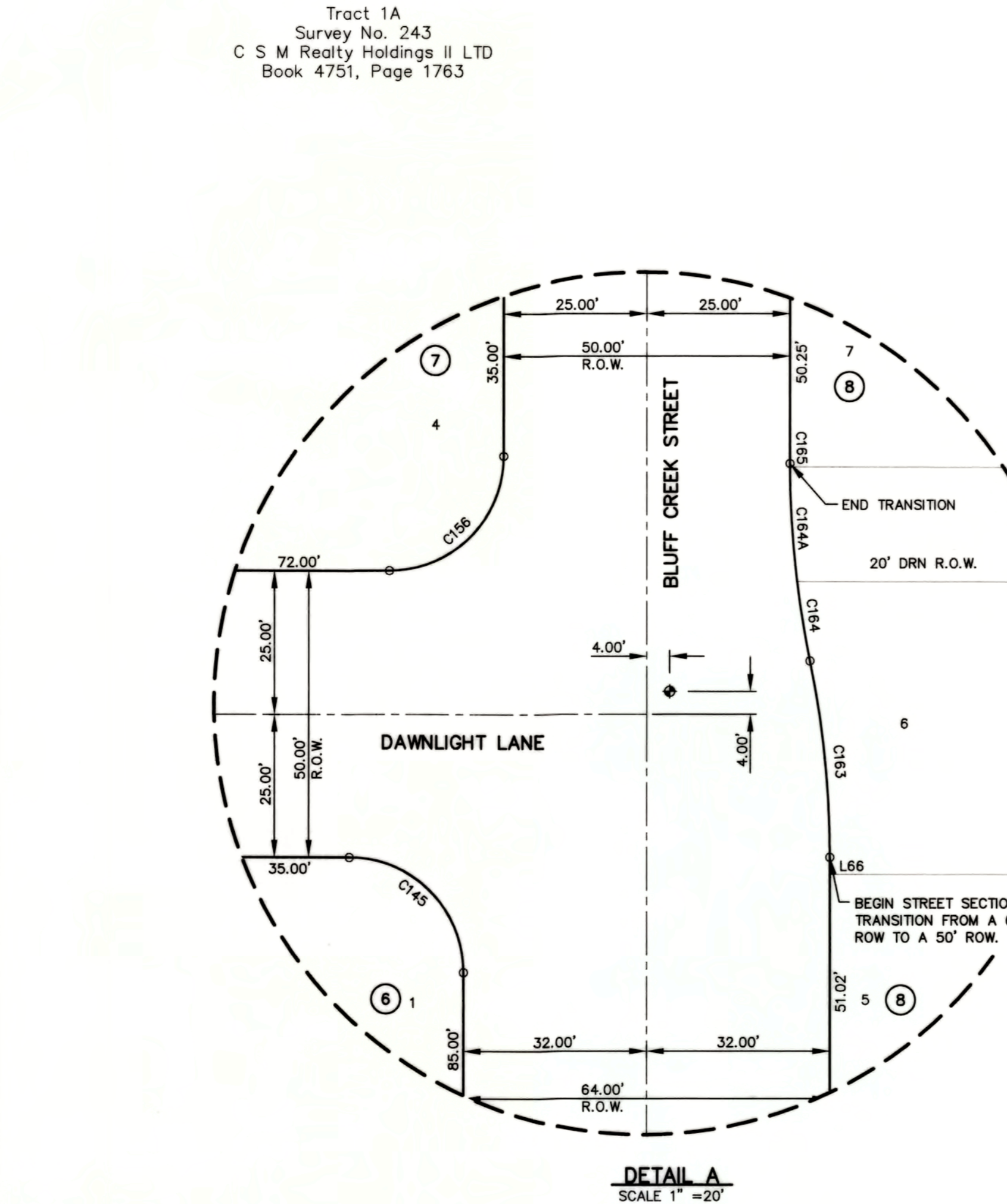
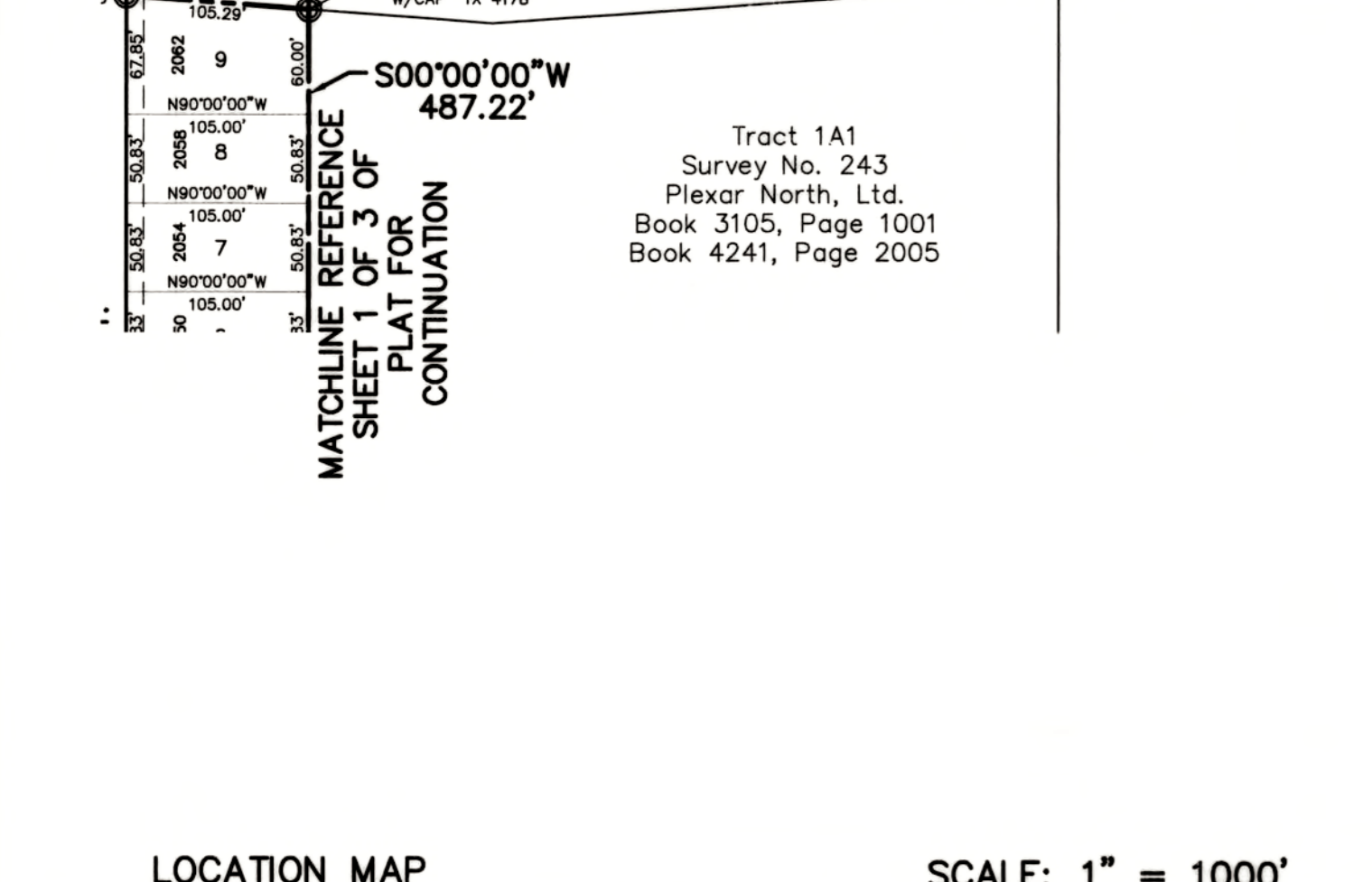
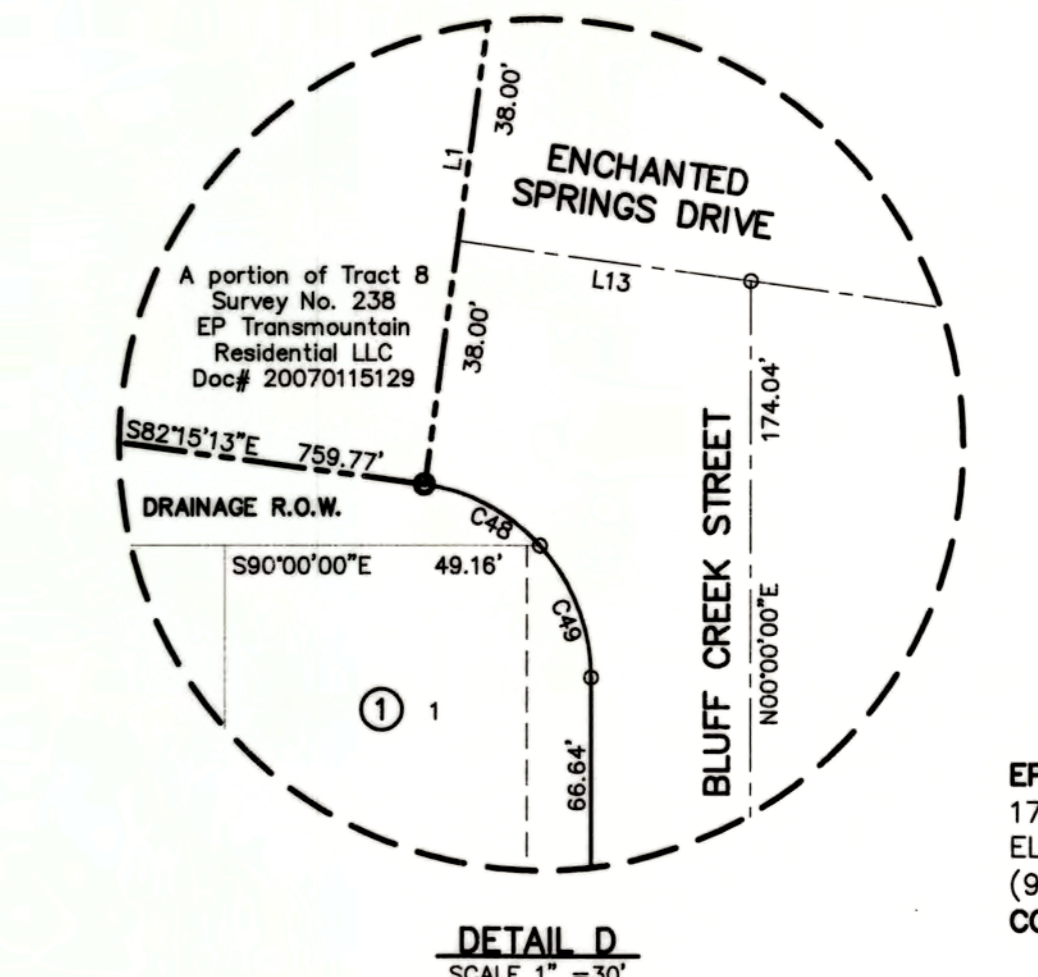
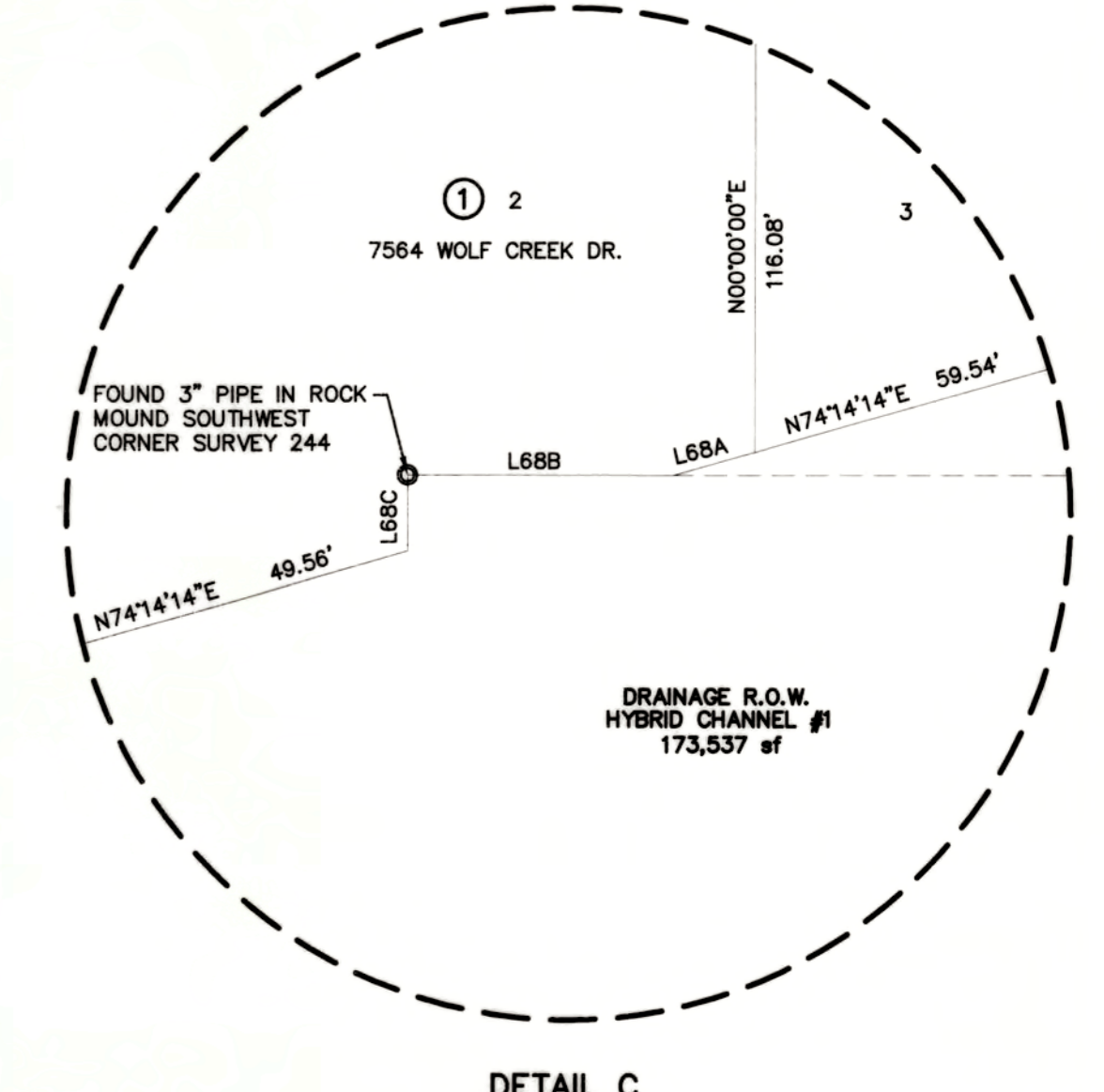
DESERT SPRINGS UNIT ONE

A PORTION OF TRACT 8 LAURA E. MUNDY SURVEY No. 238, ALL OF TRACTS 12 AND 13 AND A PORTION OF TRACTS 10A AND 10E NELLIE D. MUNDY SURVEY No. 239, A PORTION OF NELLIE D. MUNDY SURVEY No. 244, AND A PORTION OF TRACT 1B, NELLIE D. MUNDY NO. 243, CITY OF EL PASO, EL PASO COUNTY, TEXAS 59.24 ACRES±
SHEET 2 OF 3



MATCHLINE REFERENCE SHEET 1 OF 3 OF PLAT FOR CONTINUATION

MATCHLINE REFERENCE SHEET 1 OF 3 OF PLAT FOR CONTINUATION



Benito Barragan TX R.P.L.S. No. 5615
SURVEYOR
Barragan & Associates Inc.
LAND PLANNING & LAND SURVEYING
10950 Paticana Dr. Bldg. F - El Paso TX 79936
Phone (915) 591-5709 Fax (915) 591-5706
CONTACT: BENITO BARRAGAN, R.P.L.S.

OWNER
EP TRANSMOUNTAIN RESIDENTIAL LLC
1790 Lee Trevino, Suite 601
EL PASO, TEXAS 79936
(915) 592-0290
CONTACT: MR. DOUG SCHWARTZ

OWNER
DVEP LAND LLC
7910 Gateway East Suite 102
EL PASO, TEXAS 79915
(915) 591-6319
CONTACT: MR. RANDAL O'LEARY

OWNER
RPW DEVELOPMENT
7910 Gateway East Suite 102
EL PASO, TEXAS 79915
(915) 591-6319
CONTACT: MR. RANDAL O'LEARY

ENGINEER
cea
GROUP
engineers • architects • planners
Caster Center @ Transmountain
4712 Woodrow Bear, Ste. F El Paso, TX 79924
Office: 915.544.5232 Fax: 915.544.5233 www.ceagroup.net
TEXAS FIRM REGISTRATION NO. 4564
CONTACT: ALAN D. HERRERA, P.E.
(SHEET 2 OF 3)
DATE OF PREPARATION: AUGUST 2011
DATE OF REVISION: SEPTEMBER 2012

DESERT SPRINGS UNIT ONE

A PORTION OF TRACT 8 LAURA E. MUNDY SURVEY No. 238, ALL OF TRACTS 12 AND 13 AND A PORTION OF TRACTS 10A AND 10E NELLIE D. MUNDY SURVEY No. 239, A PORTION OF NELLIE D. MUNDY SURVEY No. 244, AND A PORTION OF TRACT 1B, NELLIE D. MUNDY No. 243, CITY OF EL PASO, EL PASO COUNTY, TEXAS 59.24 ACRES±

SHEET 1 OF 3
DEDICATION

DVEP LAND LLC, RPW DEVELOPMENT LTD, AND EP TRANSMOUNTAIN RESIDENTIAL LLC, as the owners of the 59.24 acre tract land encompassed within the proposed Desert Springs Unit One, do hereby present this map and dedicate their respective portions of property (EP TRANSMOUNTAIN RESIDENTIAL, LLC's dedication is limited to Hybrid Channel #3 and a portion of Enchanted Springs) to the use of the public, ponding areas, drainage right-of-way, PSB right-of-way, drainage easements, PSB easements, streets 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 20th day of December, 2012.

Randal O'Leary
Randal O'Leary, Manager
DVEP LAND LLC

Witness my signature this 20th day of December, 2012.

Randal O'Leary
Randal O'Leary, Manager
RPW DEVELOPMENT LTD

Witness my signature this 18th day of December, 2012.

Douglas A. Schwartz
Douglas A. Schwartz, Manager
EP TRANSMOUNTAIN RESIDENTIAL LLC

ACKNOWLEDGEMENT

STATE OF TEXAS
COUNTY OF EL PASO

Before me, the undersigned authority, on this day personally appeared Randal O'Leary, as manager of DVEP LAND LLC, 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 18th day of December, 2012.

Susan McMillan
Notary Public in and for El Paso County
My Commission Expires 3-16-13

Before me, the undersigned authority, on this day personally appeared Randal O'Leary, as manager of RPW DEVELOPMENT LTD, 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 20th day of December, 2012.

Susan McMillan
Notary Public in and for El Paso County
My Commission Expires 3-16-13

Before me, the undersigned authority, on this day personally appeared Douglas A. Schwartz, as manager of EP TRANSMOUNTAIN RESIDENTIAL LLC, 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 20th day of December, 2012.

Susan McMillan
Notary Public in and for El Paso County
My Commission Expires 3-16-13

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 9th day of February, 2012

Ag. Name
Chairperson

Approved for filing this 30th day of January, 2012

MSM
City Development Director

FILING

Filed and recorded in the office of the County Clerk of El Paso County, Texas, this 29th day

of February, 2012, in File No. 20130014839 of the Plat Records.

Dubin Brimes
County Clerk

Melissa Morales
by Deputy

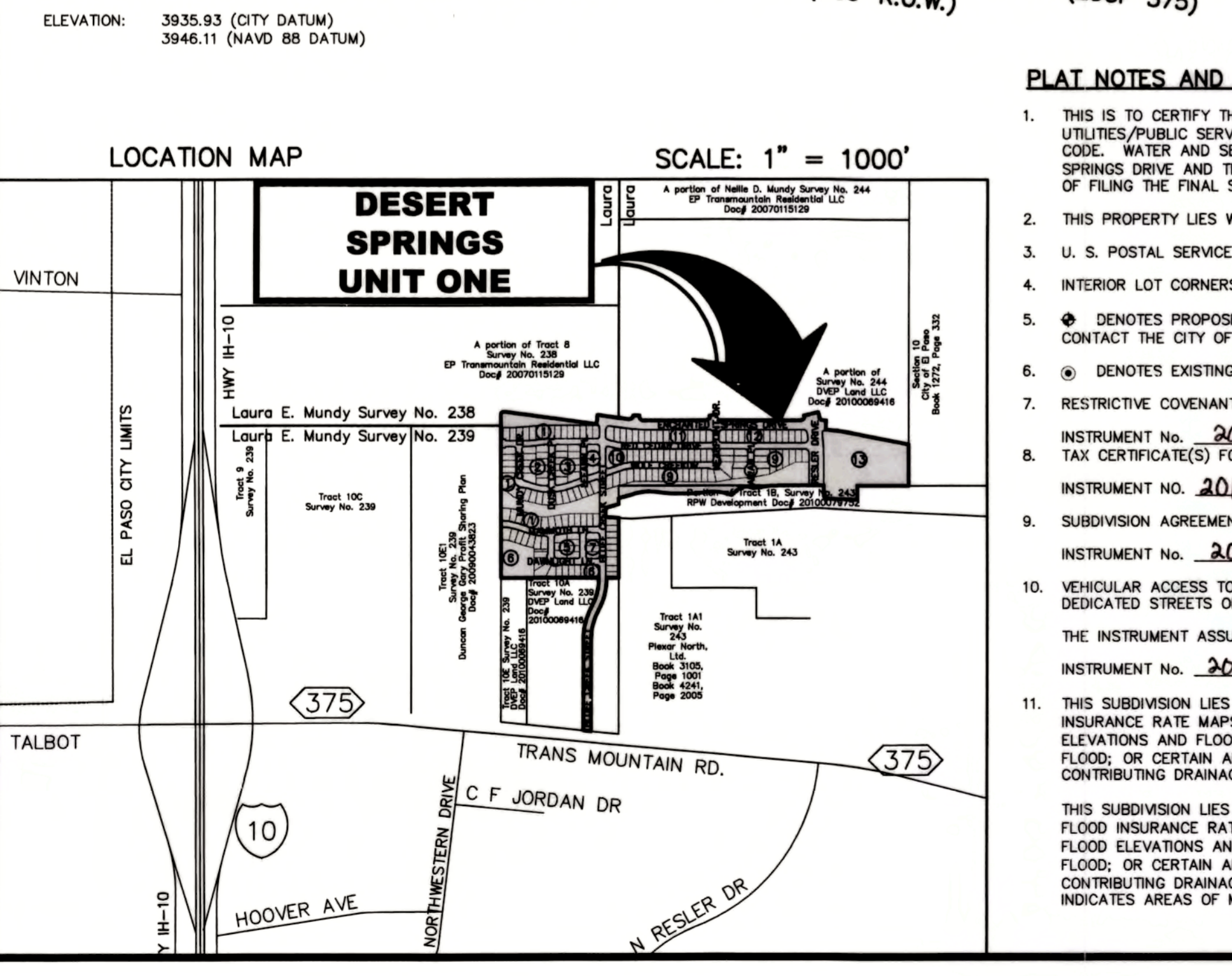
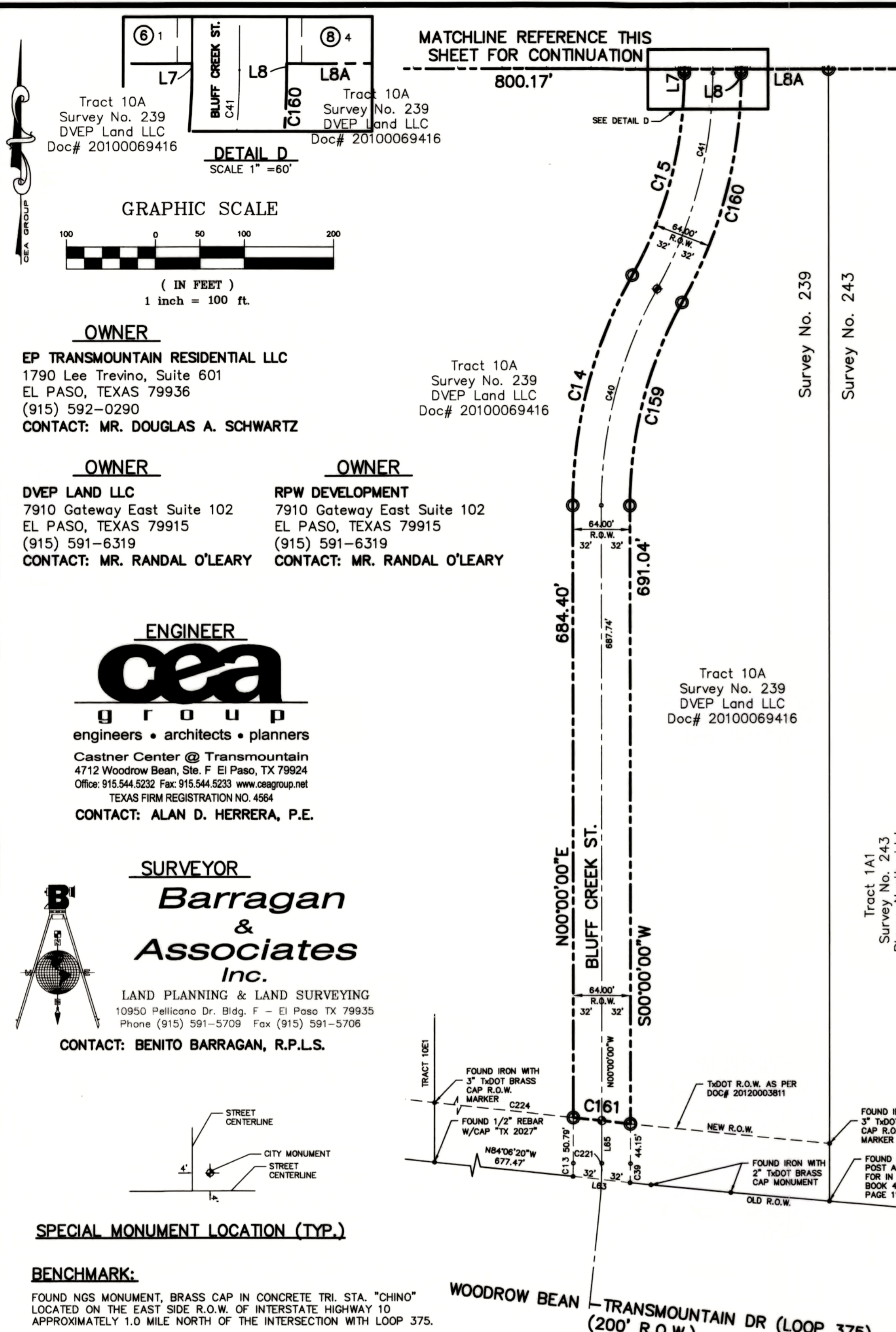
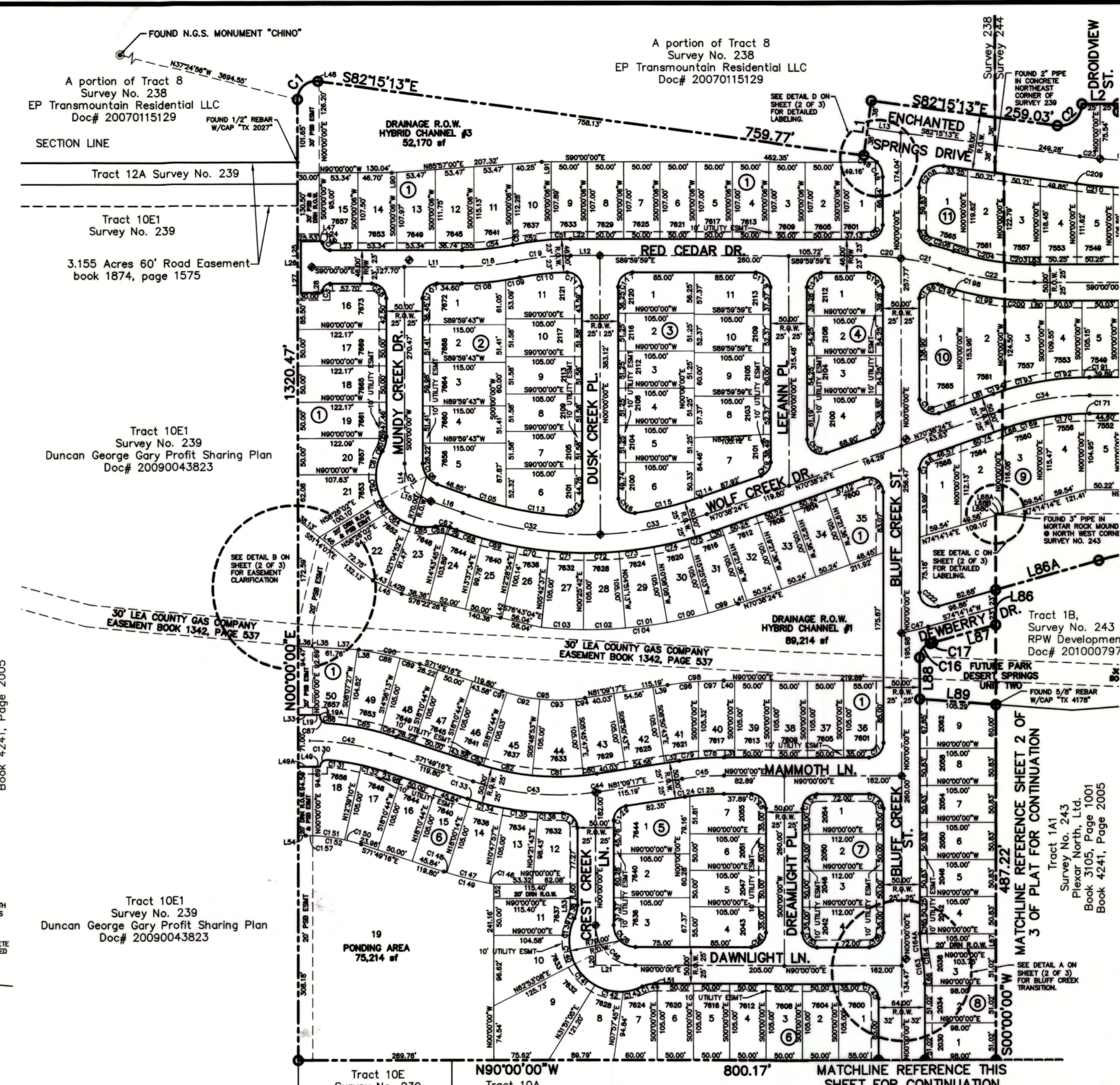
This plat represents a survey made on the ground under my supervision and in compliance with the current professional and technical standards of the Texas Board of Professional Land Surveying.

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



Benito Barragan 12/26/2012
Benito Barragan, P.E.
Licensed Professional Engineer
Texas License No. 104114

DATE OF PREPARATION: AUGUST 2011
DATE OF REVISION: SEPTEMBER 2012



PLAT NOTES AND RESTRICTIONS:

- THIS IS TO CERTIFY THAT WATER AND SEWER SERVICES WILL BE PROVIDED TO DESERT SPRINGS UNIT ONE 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 ENCHANTED SPRINGS DRIVE AND TRANSMOUNTAIN ROAD AND WILL BE CONSTRUCTED TO SERVE THE SUBDIVISION WITHIN TWO (2) YEARS OF THE DATE OF FILING THE FINAL SUBDIVISION PLAT.
- THIS PROPERTY LIES WITHIN CANUTILLO INDEPENDENT SCHOOL DISTRICT.
- U. S. POSTAL SERVICE WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS.
- INTERIOR LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES.
- ⦿ DENOTES PROPOSED CITY MONUMENT (MAY BE SUBJECT TO RELOCATION AT TIME OF CONSTRUCTION. FOR EXACT LOCATION PLEASE CONTACT THE CITY OF EL PASO).
- ⊙ DENOTES EXISTING CITY MONUMENT.
- RESTRICTIVE COVENANTS FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION, INSTRUMENT No. 20130014903 DATE 2/28/12
- TAX CERTIFICATE(S) FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION, INSTRUMENT No. 20130014897-901 DATE 2/28/12
- SUBDIVISION AGREEMENT AND GUARANTEE LETTER ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION, INSTRUMENT No. 20130014904 DATE 2/28/12
- VEHICULAR ACCESS TO THOSE RESIDENTIAL LOTS ABUTTING ENCHANTED SPRINGS DRIVE AND RESLER DRIVE SHALL BE FROM OTHER DEDICATED STREETS ONLY.
- THE INSTRUMENT ASSURING RELEASE OF ACCESS IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION, INSTRUMENT No. 20130014903 DATE 2/28/12
- THIS SUBDIVISION LIES WITHIN ZONE "A2, B & C" AS DESIGNATED IN PANEL NO. 480214-0011 C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "B" INDICATES AREAS BETWEEN THE 100-YEAR FLOOD AND THE 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO A 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE, OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD.
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- SET 1/2" REBAR WITH CAP STAMPED "B&A INC" AT ALL EXTERIOR CORNERS UNLESS OTHERWISE SHOWN.
- PROPOSED TEMPORARY FIVE (5') FOOT HIGH DIVERSION DIKE/BERM & PRIVATE DRAINAGE STRUCTURES SHALL BE MAINTAINED BY THE DEVELOPER.
- PSB WILL BE GRANTED ACCESS EASEMENTS FOR CULVERT MAINTENANCE BY THE OWNER THROUGH SEPARATE INSTRUMENTS.

THIS SUBDIVISION LIES WITHIN ZONE "A2, B & C" AS DESIGNATED IN PANEL NO. 480214-0016 C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "B" INDICATES AREAS BETWEEN THE 100-YEAR FLOOD AND THE 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO A 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE, OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD.

THIS SUBDIVISION LIES WITHIN ZONE "A2 & C" AS DESIGNATED IN PANEL NO. 480214-0017 C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "C" INDICATES AREAS OF MINIMAL FLOODING.

| IMPACT FEES | | | |
|-----------------------|----------------------|--------------|---------------|
| WESTSIDE SERVICE AREA | | | |
| METER SIZE | METER CAPACITY RATIO | WATER* | WASTEWATER |
| Less than 1 inch | 1.00 | \$ 658.00 | \$ 927.00 |
| 1 inch | 1.67 | \$ 1,101.00 | \$ 1,548.00 |
| 1 1/2 inch | 3.33 | \$ 2,195.00 | \$ 3,087.00 |
| 2 inch | 5.33 | \$ 3,514.00 | \$ 4,941.00 |
| 3 inch | 10.00 | \$ 6,593.00 | \$ 9,270.00 |
| 4 inch | 16.67 | \$ 10,990.00 | \$ 15,453.00 |
| 6 inch | 33.33 | \$ 21,973.00 | \$ 30,897.00 |
| 8 inch | 53.33 | \$ 35,158.00 | \$ 49,437.00 |
| 10 inch | 76.67 | \$ 50,545.00 | \$ 71,073.00 |
| 12 inch | 143.33 | \$ 94,490.00 | \$ 132,867.00 |

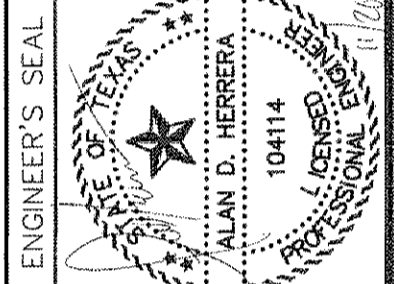
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 10/24/2013

UTILITY LOCATOR SERVICES
 EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 496-5244
 EL PASO WATER UTILITIES (915) 594-5500
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 U.S. SPRINT TELECOMM (800) 521-0579
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750
 (AFTER HOURS) (915) 240-3220

**WARNING !
 BEFORE YOU DIG**
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
3935.93 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 ELEVATION: 3945.78 (NGVD 29 DATUM)
 3945.78 (NGVD 29 DATUM)
 TIE TO THE PROJECT BENCHMARK IS N00°50'52"E, 3,020.83 FEET FROM THE FOUNDING POINT OF THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY NO. 243
 DATE: _____ BY: _____
 REVISIONS

CSA
 ENGINEERS • ARCHITECTS • PLANNERS
 CENTER FOR THE FUTURE
 4712 Woodrow Bann, Ste. F, El Paso, TX 79924
 Office: 915.544.5202 Fax: 915.544.5233 www.csaengr.com
 TEXAS PROFESSIONAL REGISTRATION NO. 4884



SCALE
 Horizontal: 1" = 200'
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APP'D. BY: A.H.
 JOB No. 2050-013-LD

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

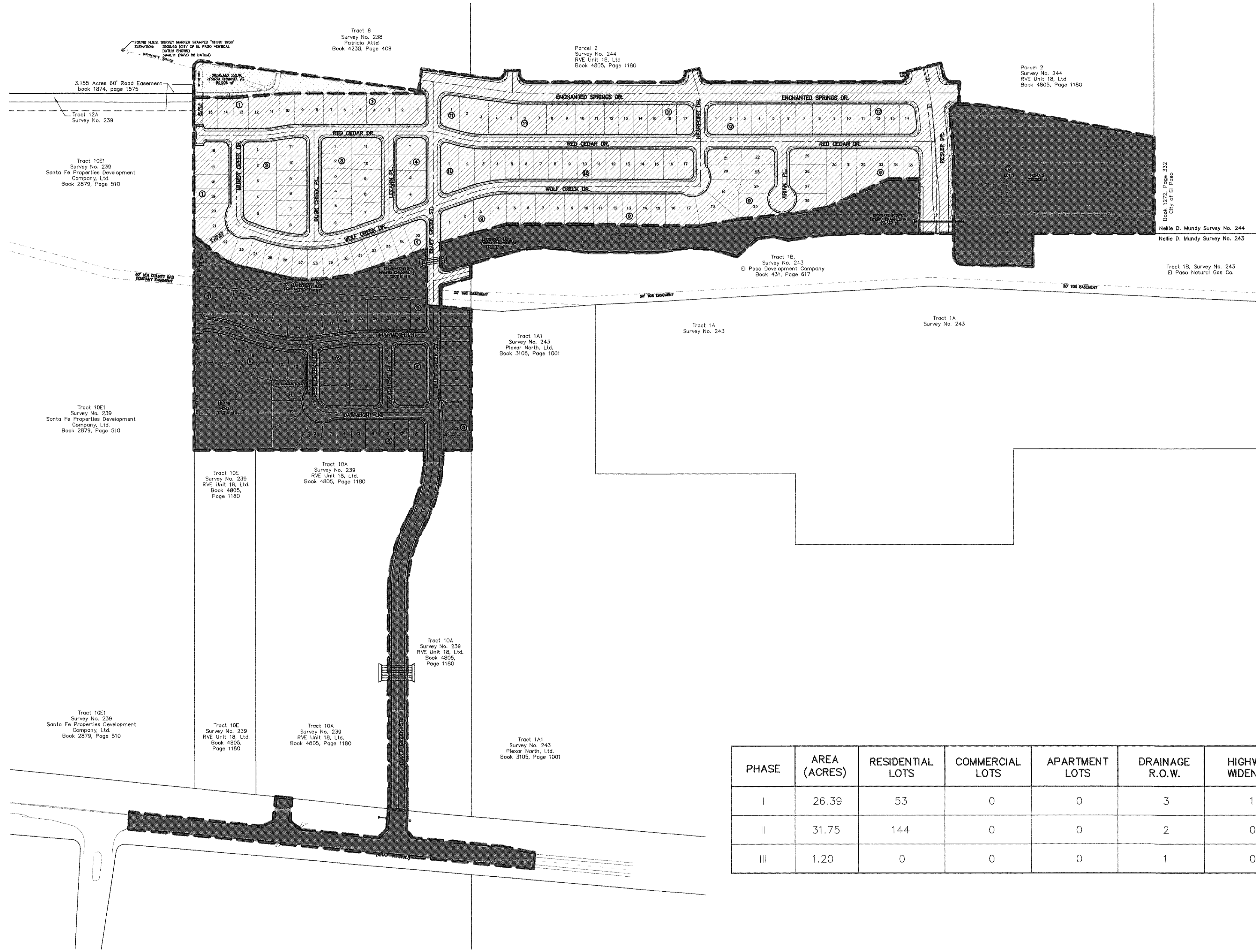
SHEET TITLE

CONSTRUCTION PHASING PLAN

SHEET NO.

C3.0

OF



BENCHMARK:
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
ELEVATION: 3935.93 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NGVD 88 DATUM)
 3945.78 (NGVD 29 DATUM)
 TIE TO THE PROJECT BENCHMARK IS N00°50'52"E, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

FLOOD ZONE:
 THIS SUBDIVISION LIES WITHIN ZONE "A2, B & C" AS DESIGNATED IN PANEL NO. 480214-0011 G, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "B" INDICATES AREAS BETWEEN THE 100-YEAR FLOOD AND THE 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO A 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE; OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD. ZONE "C" INDICATES AREAS OF MINIMAL FLOODING.

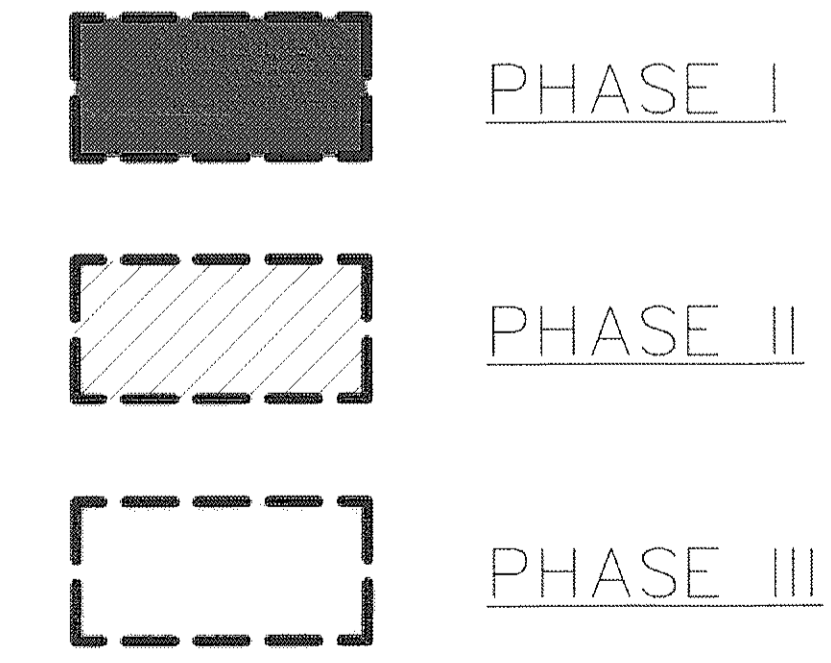
THIS SUBDIVISION LIES WITHIN ZONE "A2, B & C" AS DESIGNATED IN PANEL NO. 480214-0012 C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "B" INDICATES AREAS BETWEEN THE 100-YEAR FLOOD AND THE 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO A 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE; OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD. ZONE "C" INDICATES AREAS OF MINIMAL FLOODING.

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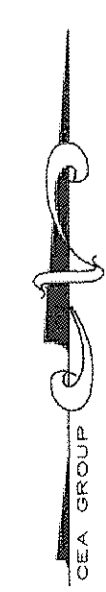
THIS SUBDIVISION LIES WITHIN ZONE "A2 & C" AS DESIGNATED IN PANEL NO. 480214-0017 G, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "C" INDICATES AREAS OF MINIMAL FLOODING.

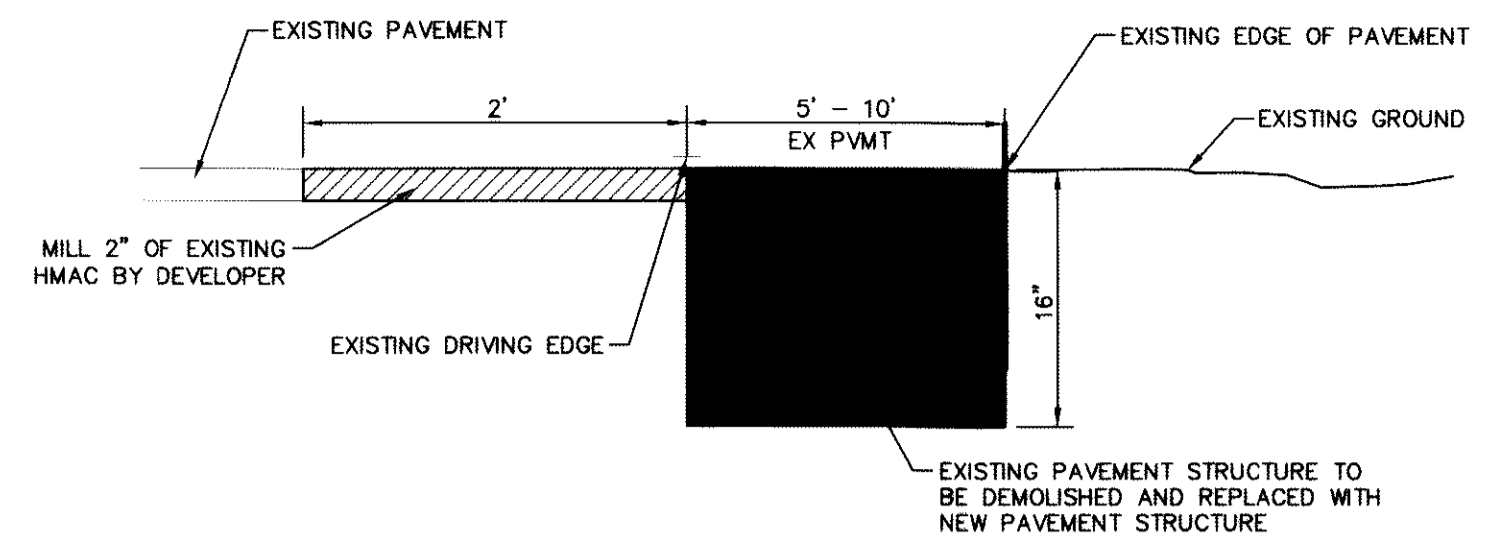
BASE FLOOD ELEVATIONS SHOWN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (TO CONVERT TO CITY DATUM SUBTRACT 9.85 FT).

| PHASE | AREA (ACRES) | RESIDENTIAL LOTS | COMMERCIAL LOTS | APARTMENT LOTS | DRAINAGE R.O.W. | HIGHWAY WIDENING |
|-------|--------------|------------------|-----------------|----------------|-----------------|------------------|
| I | 26.39 | 53 | 0 | 0 | 3 | 1 |
| II | 31.75 | 144 | 0 | 0 | 2 | 0 |
| III | 1.20 | 0 | 0 | 0 | 1 | 0 |



CONSTRUCTION PHASING PLAN
 SCALE: 1" = 200'





PAVEMENT SECTION
SCALE: N.T.S.

- NOTES:**
1. DEVELOPER SHALL COMPLY WITH SECTION 13.08.170 (EXCESSIVE PAVING CUTS) OF THE EL PASO MUNICIPAL CODE.
 2. IMPROVEMENTS SHALL NOT BE PLACED ON SIDEWALK (NDBC's, SIGNS, POLES, FIRE HYDRANTS, ETC.)
 3. IMPROVEMENTS SHALL COMPLY WITH T.A.S./A.D.A. STANDARDS
 4. TO CONVERT FROM NGVD 29 DATUM TO CITY OF EL PASO DATUM SUBTRACT 9.85'

BENCHMARK:

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
ELEVATION: 3935.93 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NAVD 88 DATUM)
 3945.78 (NGVD 29 DATUM)
 TIE TO THE PROJECT BENCHMARK IS N00°50'52"E, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013

| UTILITY LOCATOR SERVICES | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
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| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING!
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1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

LEGEND:

- NEW RETAINING ROCKWALL (2'-3' IN HEIGHT)
- NEW RETAINING ROCKWALL (3'-9' IN HEIGHT)
- 6' HIGH WROUGHT IRON FENCE WITH RETAINING/ROCKWALL
- EXISTING MINOR CONTOUR (CITY DATUM)
- 4075 EXISTING MAJOR CONTOUR (CITY DATUM)
- PROPOSED MINOR CONTOUR (CITY DATUM)
- 4075 PROPOSED MAJOR CONTOUR (CITY DATUM)

FLOOD ZONE:

THIS SUBDIVISION LIES WITHIN ZONE "A2, B & C" AS DESIGNATED IN PANEL NO. 480214-0011.C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "B" INDICATES AREAS BETWEEN THE 100-YEAR FLOOD AND THE 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO A 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE; OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD. ZONE "C" INDICATES AREAS OF MINIMAL FLOODING.

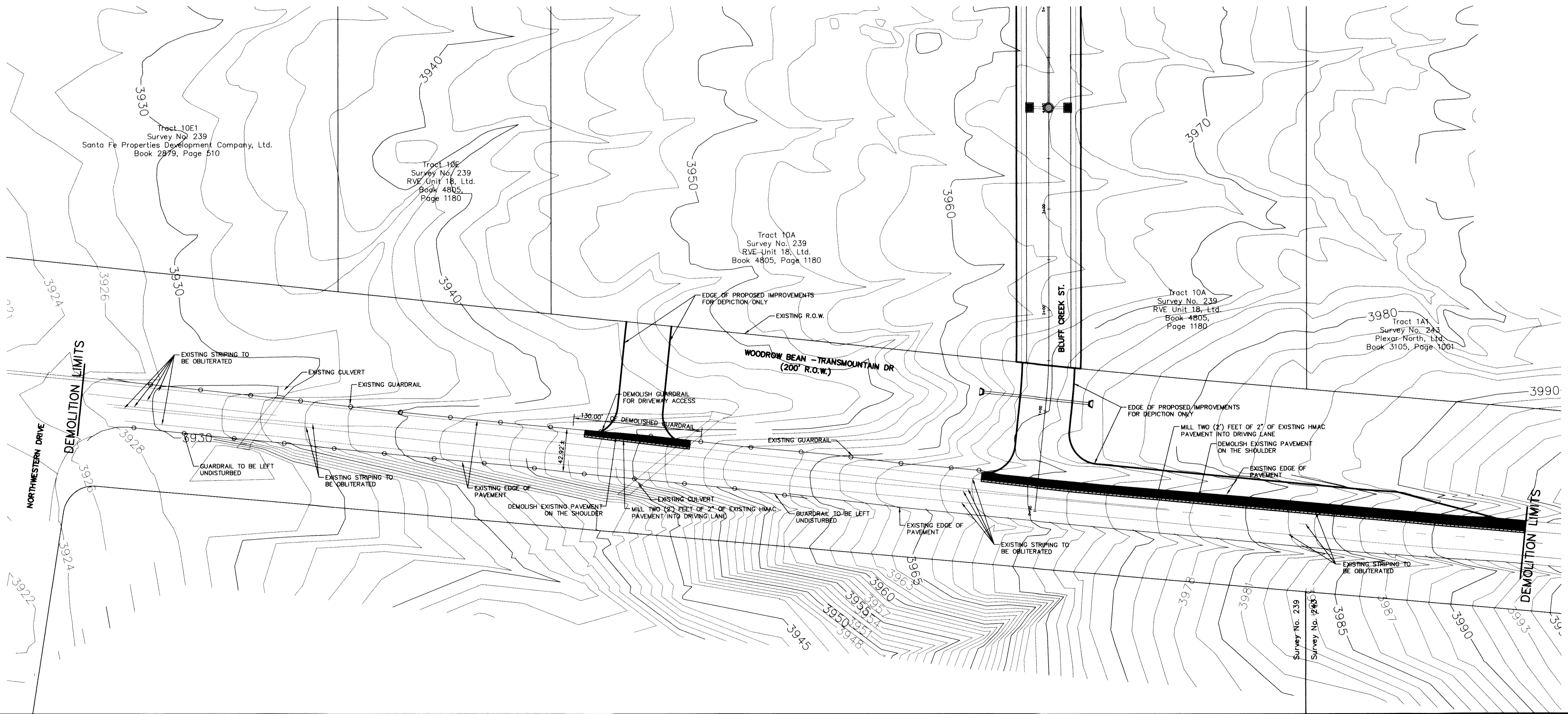
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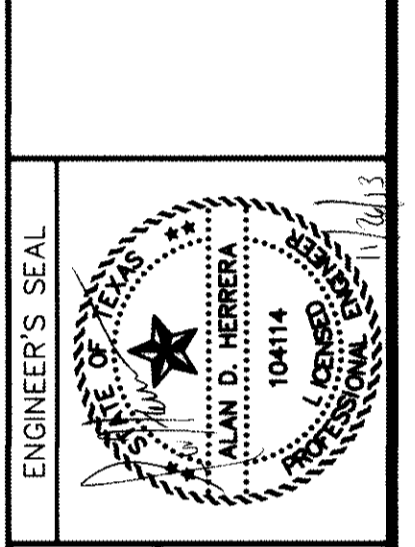
TRANSMOUNTAIN DEMOLITION PLAN
 SCALE: 1" = 50'



REFERENCES - BENCHMARKS

| | |
|---|---|
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| DATE | BY |
| | |
| | |
| | |

ceagroup
 engineers • architects • planners
 Center @ Transmountain
 4712 Woodrow Bean, Ste. F, El Paso, TX 79924
 Office 915.595.4600
 TEXAS PROFESSIONAL REGISTRATION NO. 484



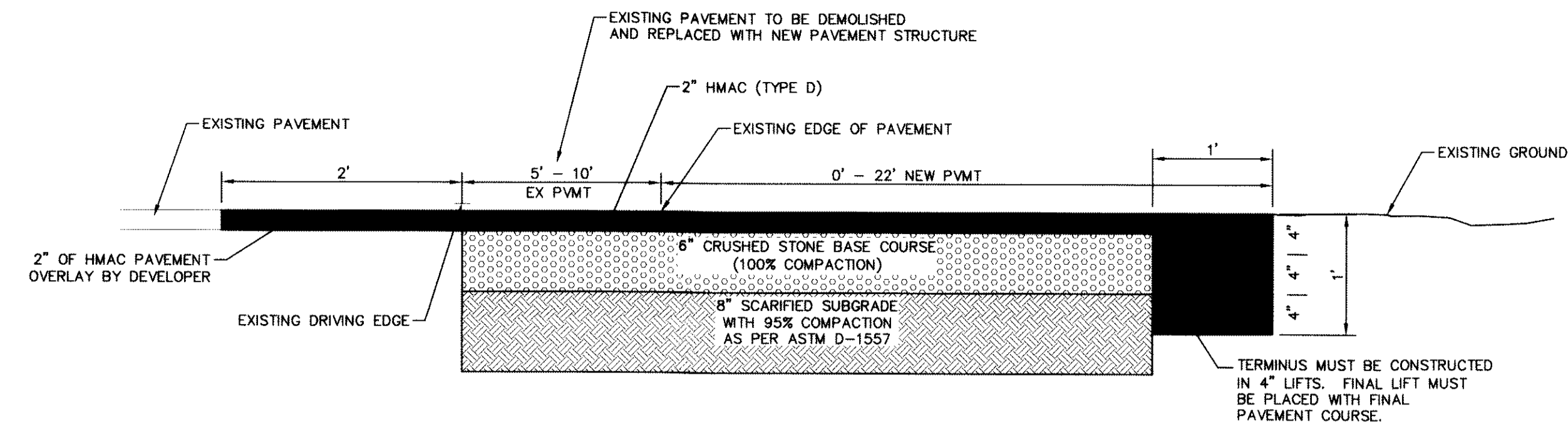
SCALE: 1" = 50'

| | |
|-------------------|-------------|
| Horizontal: | N/A |
| Vertical: | N/A |
| Contour Interval: | N/A |
| DATE: | JUNE 2012 |
| DESIGN BY: | A.H. |
| DRAWN BY: | J.M. |
| CHKD. BY: | A.H. |
| APPVD. BY: | A.H. |
| JOB No. | 2050-013-LD |

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 TRANSMOUNTAIN
 DEMOLITION PLAN

SHEET NO.
 C3.1



PAVEMENT SECTION
SCALE: N.T.S.

TRANSMOUNTAIN IMPROVEMENTS
SCALE: 1" = 50'

- NOTES:**
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 - NEW RETAINING ROCKWALL (3'-9" IN HEIGHT)
 - 6' HIGH WROUGHT IRON FENCE WITH RETAINING/ROCKWALL
 - EXISTING MINOR CONTOUR (CITY DATUM)
 - EXISTING MAJOR CONTOUR (CITY DATUM)
 - PROPOSED MINOR CONTOUR (CITY DATUM)
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ELEVATION: 3935.83 (CITY OF EL PASO VERTICAL DATUM SHOWN)
3946.11 (NAVD 88 DATUM)
3945.78 (NGVD 29 DATUM)
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REFERENCES - BENCHMARKS

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| DATE | BY |
| REVISIONS | |

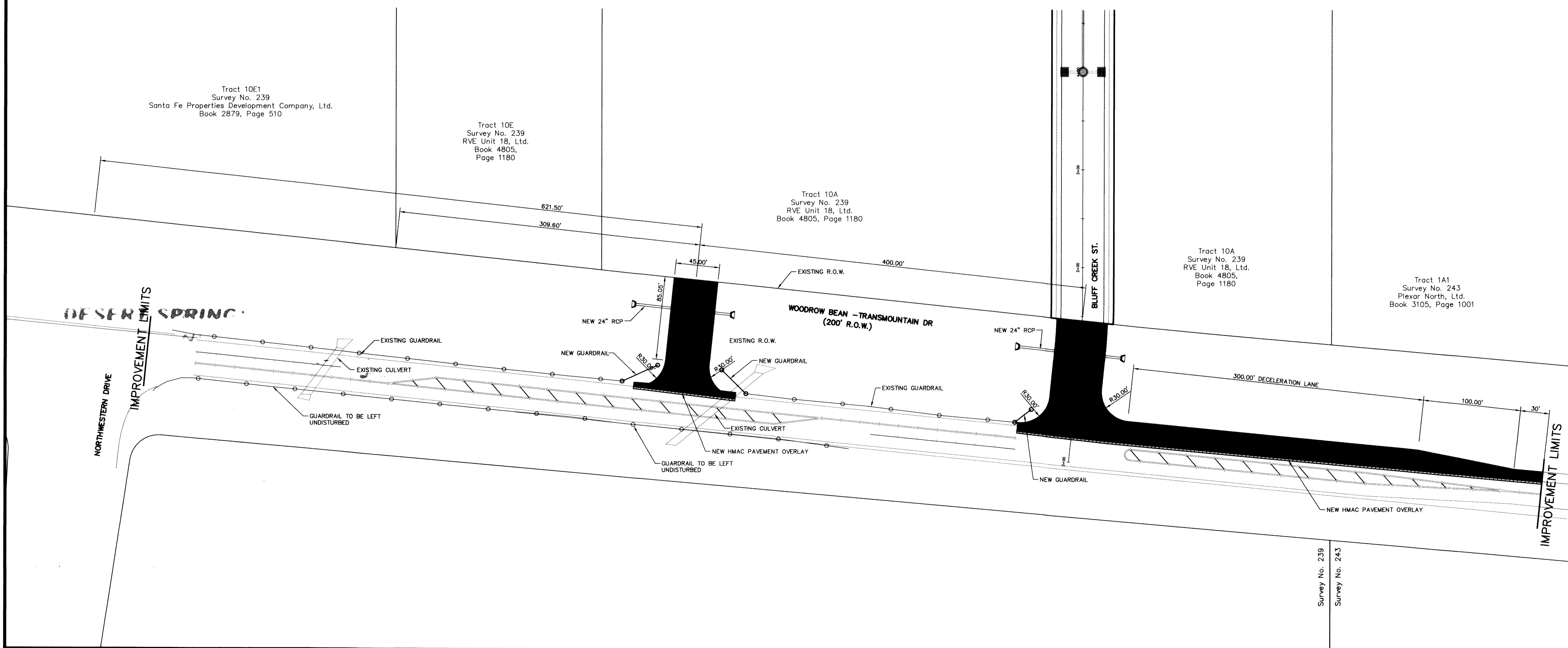
cea
engineers • architects • planners
Casper Center @ Transmountain
10814
06x 915.544.533 Fax 915.544.533 www.ceagroup.net
TEXAS FIRM REGISTRATION NO. 0594

ENGINEER'S SEAL
ALAN D. HERRERA
10814
10814

SCALE 1"=50'

| | |
|-------------------|-------------|
| Horizontal: | N/A |
| Vertical: | N/A |
| Contour Interval: | N/A |
| DATE: | JUNE 2012 |
| DESIGN BY: | A.H. |
| DRAWN BY: | J.M. |
| CHKD. BY: | J.L.A. |
| APPVD. BY: | A.H. |
| JOB No. | 2050-013-LD |

**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

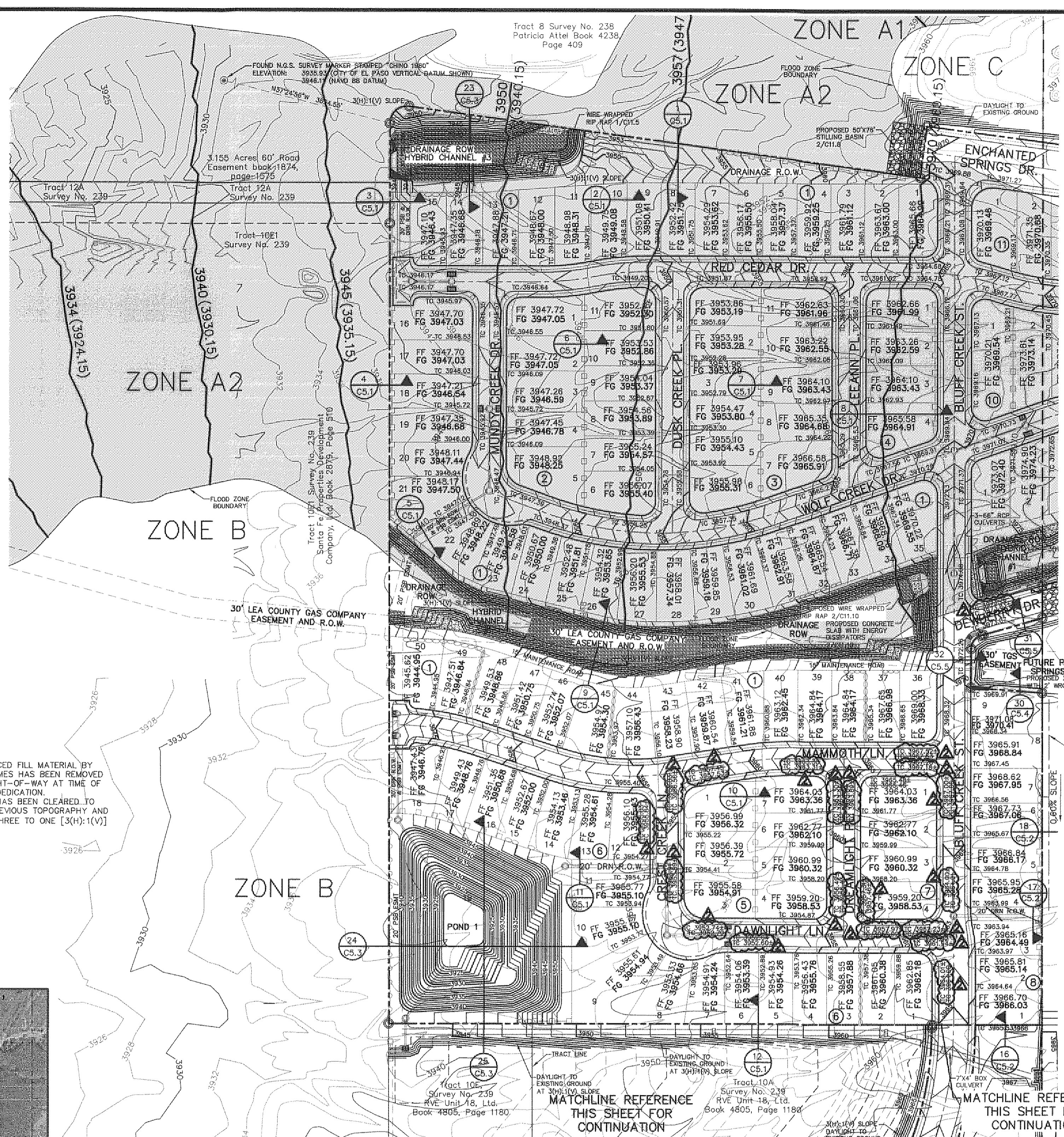
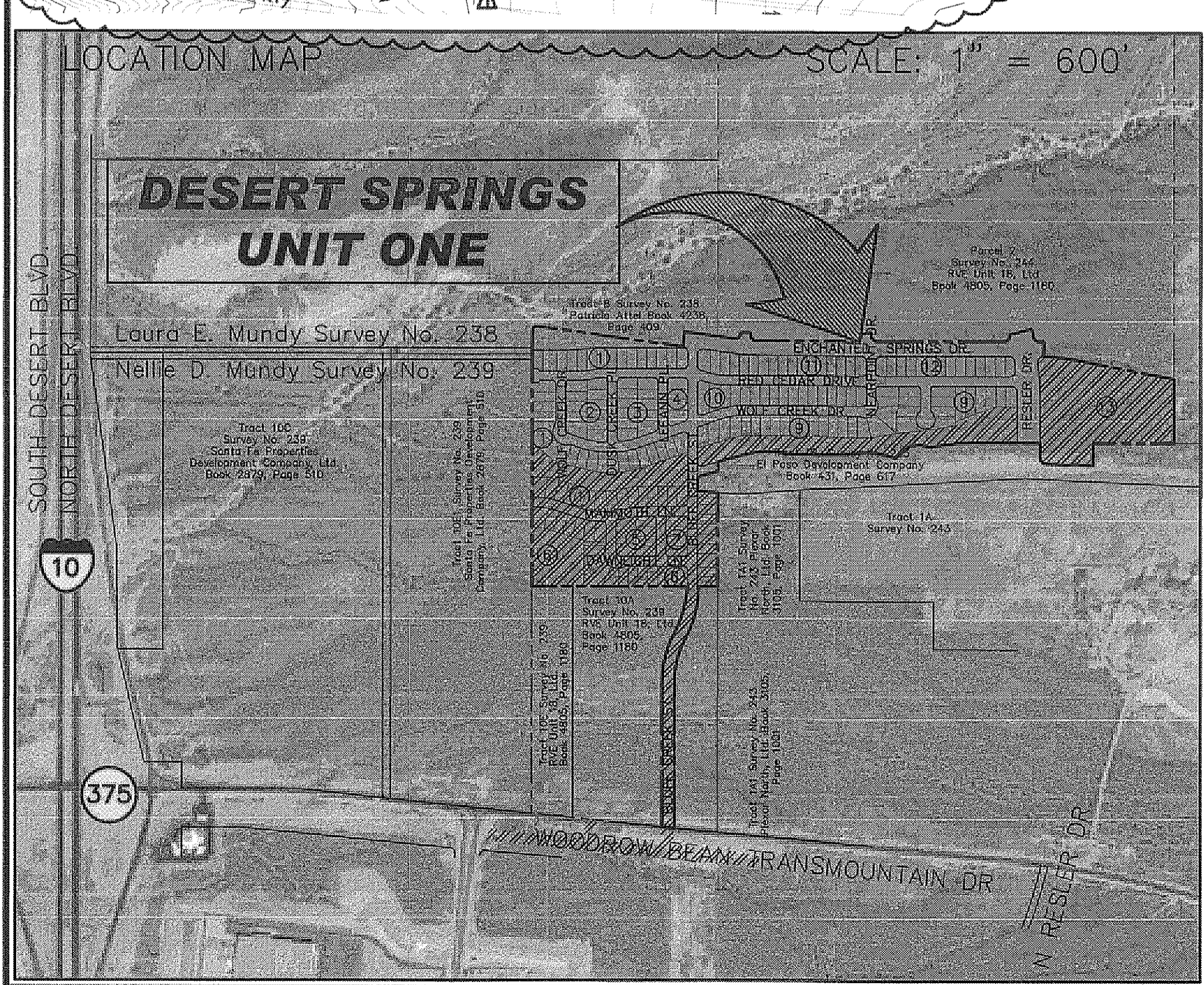
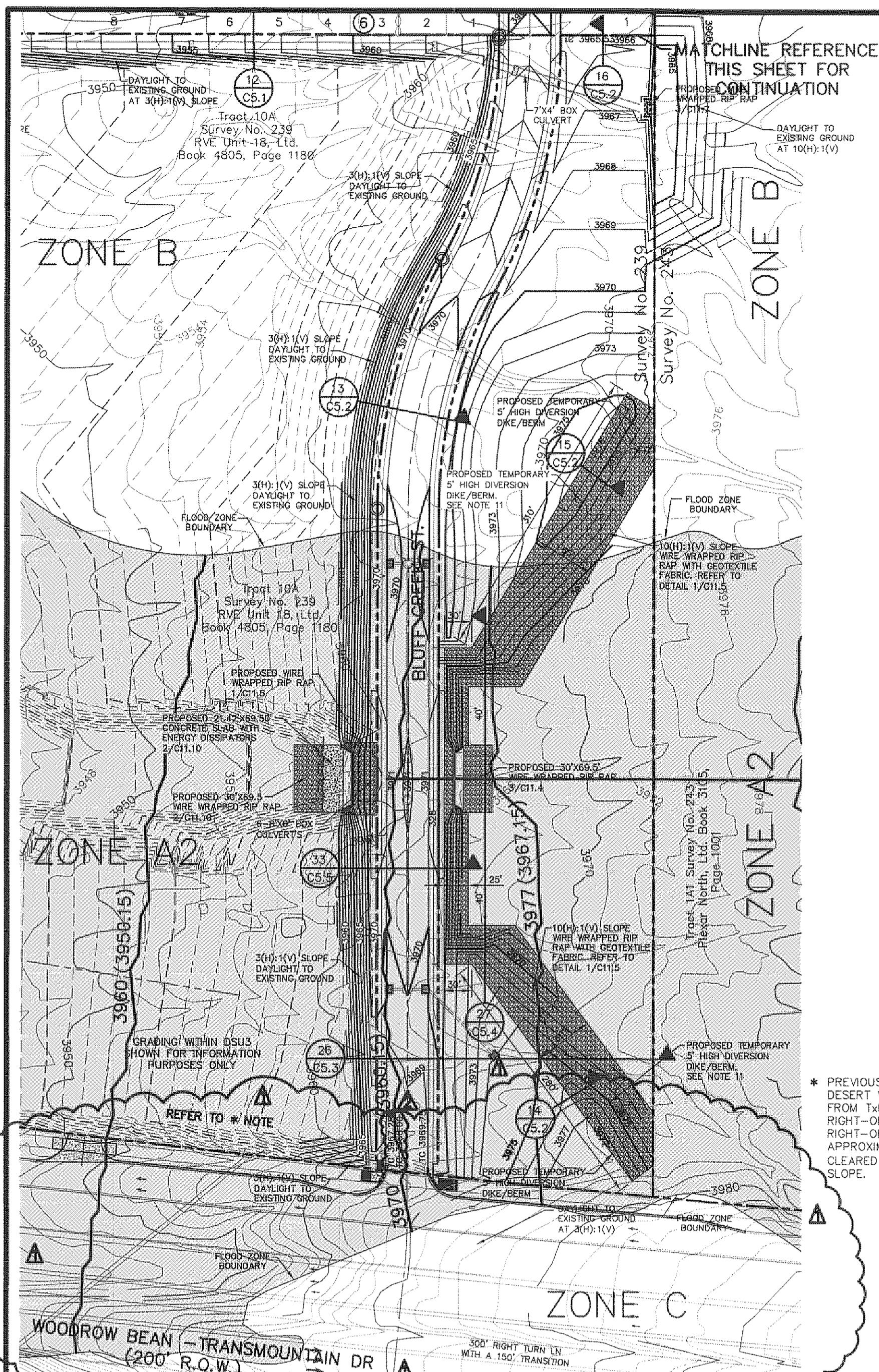


SHEET TITLE

TRANSMOUNTAIN IMPROVEMENTS

SHEET NO.

C3.2



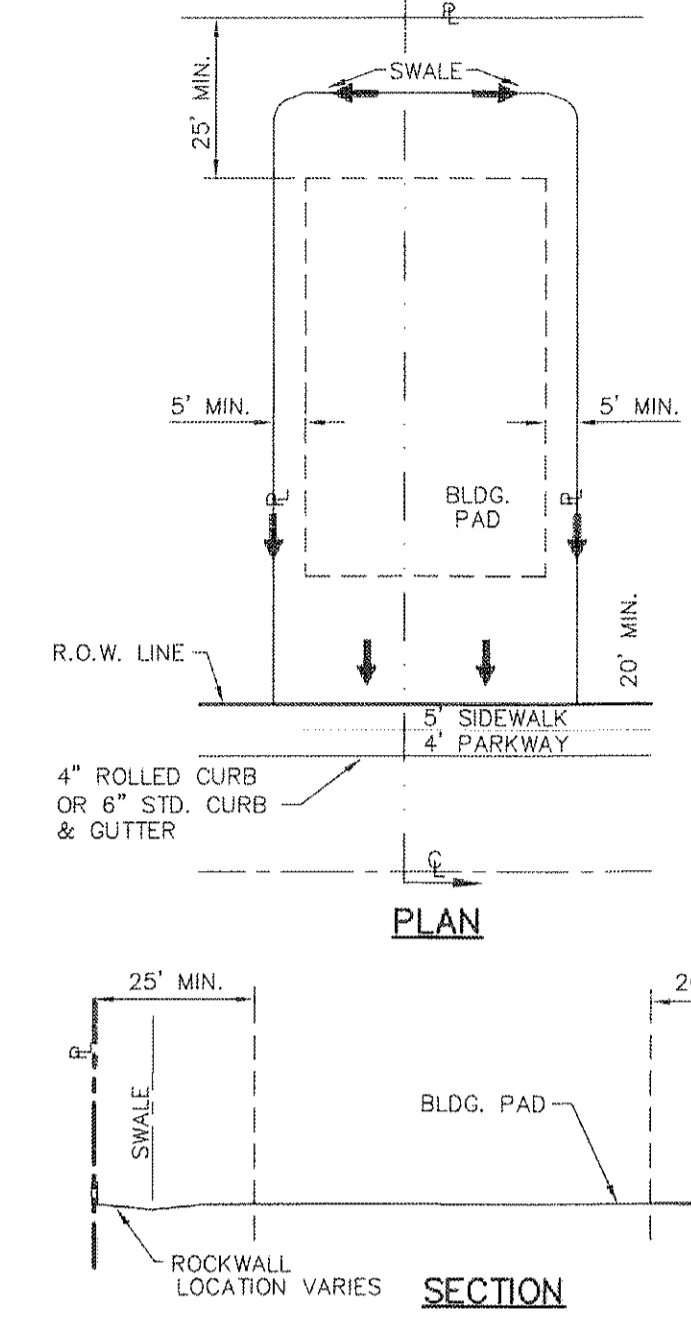
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- NOTES:**
- DRIVEWAY SLOPES MUST BE 10% MAX. FROM GUTTER FOR FIRST 12 FEET AND 14% MAX. THEREAFTER (DRIVEWAY SHALL BE LOCATED 9' HIGH SIDE OF LOT UNLESS OTHERWISE COORDINATED WITH CITY OF EL PASO)
- LEGEND:**
- NEW RETAINING ROCKWALL (2'-3" IN HEIGHT)
 - NEW RETAINING ROCKWALL (3'-9" IN HEIGHT)
 - 2" ROCKWALL WITH 4" HIGH WROUGHT IRON FENCE BY DEVELOPER
 - 6" HIGH WROUGHT IRON FENCE BY DEVELOPER
 - CONCRETE/ROCKWALL COMBO WALL
 - EXISTING MINOR CONTOUR (CITY DATUM)
 - EXISTING MAJOR CONTOUR (CITY DATUM)
 - PROPOSED MINOR CONTOUR (CITY DATUM)
 - PROPOSED MAJOR CONTOUR (CITY DATUM)
 - FLOOD ZONE A2
 - FLOOD ZONE B
 - FLOOD ZONE C (NO HATCHING)
 - 4043 (4033.15) BASE FLOOD ELEVATION IN NGVD 29 DATUM (CITY DATUM)

- NOTES:**
- RETAINING WALLS SHALL BE CONSTRUCTED FOR VERTICAL GRADES GREATER THAN 2- FEET.
 - SLOPED AREAS WITHIN RESIDENTIAL LOTS SHALL BE MAINTAINED BY THE PROPERTY OWNERS.
 - ALL RETAINING WALLS NOT SPECIFIED TO BE CONSTRUCTED BY DEVELOPER, SHALL BE BUILT BY BUILDER.
 - DEVELOPER SHALL COMPLY WITH SECTION 13.08.170 (EXCESSIVE PAVING CUTS) OF THE EL PASO MUNICIPAL CODE.
 - IMPROVEMENTS SHALL NOT BE PLACED ON SIDEWALK (NDBC'S, SIGNS, POLES, FIRE HYDRANTS, ETC.)
 - IMPROVEMENTS SHALL COMPLY WITH T.A.S./A.D.A. STANDARDS
 - U.S. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS.
 - ALL WHEELCHAIR RAMPS WILL BE CONSTRUCTED BY DEVELOPER AS PART OF SUBDIVISION IMPROVEMENTS.
 - TO CONVERT FROM NGVD 29 DATUM TO CITY OF EL PASO DATUM SUBTRACT 9.85'
 - 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.
 - PROPOSED TEMPORARY FIVE (5') FOOT HIGH DIVERSION DIKE/BERM & PRIVATE DRAINAGE STRUCTURES SHALL BE MAINTAINED BY DEVELOPER.
 - THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN OKTEX EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT, NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.
 - DESERT SPRINGS UNITS ONE AND TWO ARE TO BE BUILT CONCURRENTLY. REFER TO DESERT SPRINGS UNIT TWO SUBDIVISION IMPROVEMENTS FOR ADDITIONAL INFORMATION.

GRADING PLAN
SCALE: 1" = 100'

RECORD DRAWINGS

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10/24/2013

CLOMR REFERENCE

A REQUEST FOR A CONDITIONAL LETTER OF MAP REVISION (CLOMR) IS CURRENTLY UNDER REVIEW BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WHERE FLOW PATHS 40, 41, AND 41A ARE BEING ANALYZED REFLECTING THE PROPOSED IMPROVEMENTS. THE CASE NUMBER IDENTIFYING THIS REVIEW IS 11-06-2380R.

BENCHMARK:

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ELEVATION: 3935.93 (CITY OF EL PASO VERTICAL DATUM)
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3945.78 (NGVD 29 DATUM)

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FLOOD ZONE:

THIS SUBDIVISION LIES WITHIN ZONE "A2, & B" AS DESIGNATED IN PANEL NO. 480214-0011 C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "B" INDICATES AREAS BETWEEN THE 100-YEAR FLOOD AND THE 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO A 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE; OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD.

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BASE FLOOD ELEVATIONS SHOWN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (TO CONVERT TO CITY DATUM SUBTRACT 9.85 FT).

DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

C3.3R

SCALE: 1" = 100'

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

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPVD. BY: A.H.
JOB NO. 2050-013-LD

PROJECT TITLE

SHEET TITLE

GRADING PLAN

(SHEET 1 OF 3)

SHEET NO.

REFERENCES - BENCHMARKS

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
ELEVATION: 3935.93 (CITY OF EL PASO VERTICAL DATUM)
3946.11 (NAVD 88 DATUM)
3945.78 (NGVD 29 DATUM)

TIE TO THE PROJECT BENCHMARK IS NOD50°52'E, 3,020.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

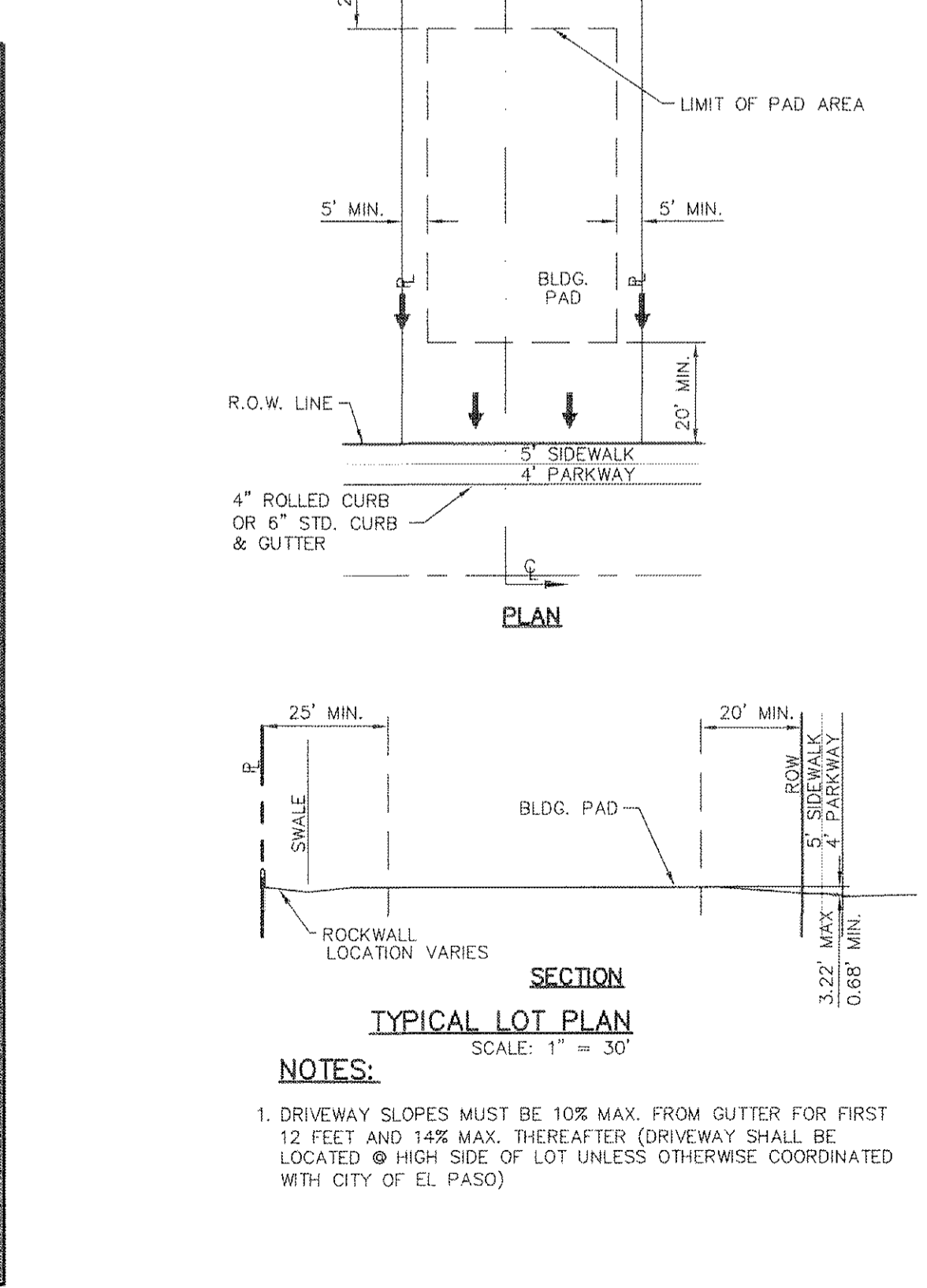
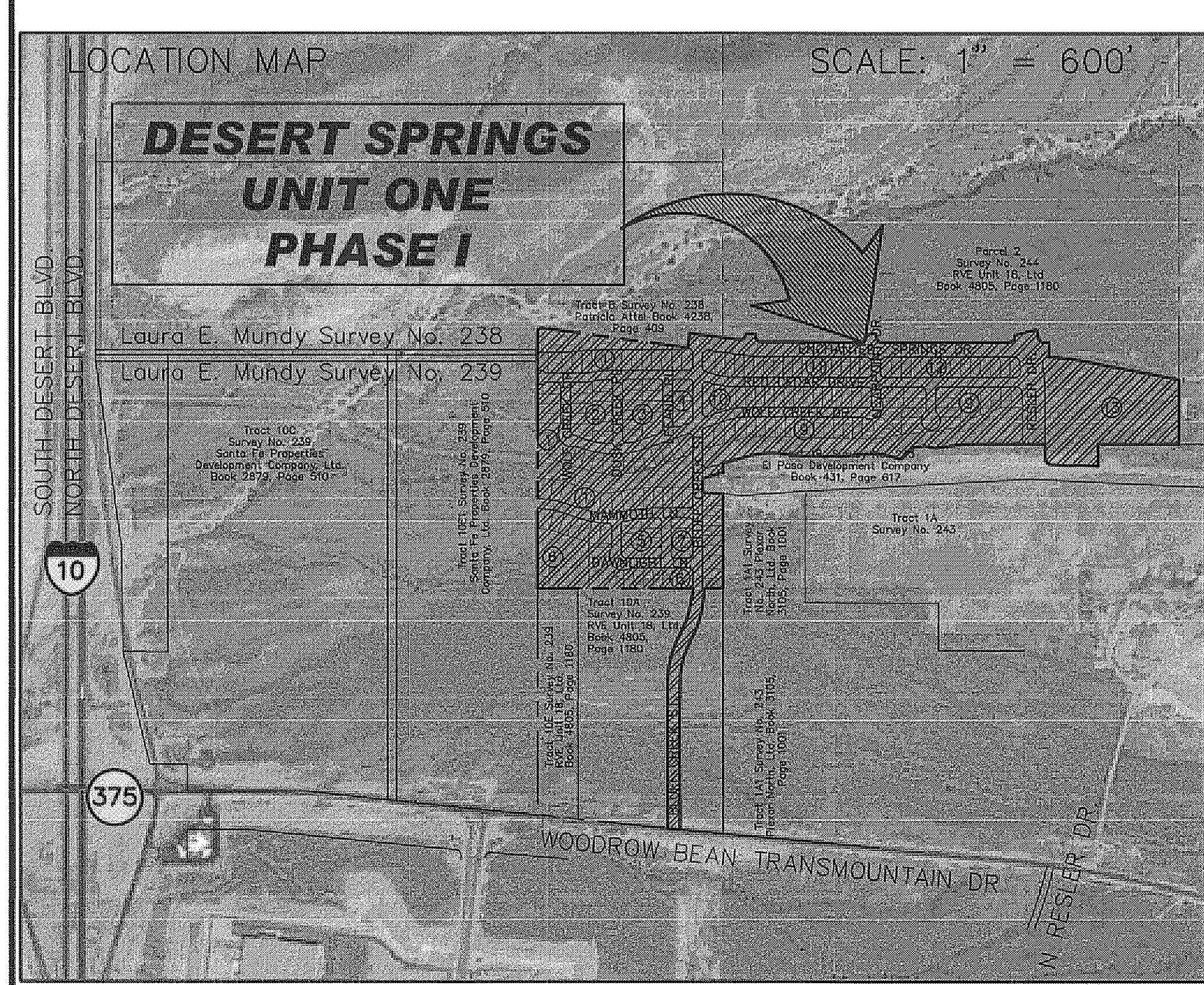
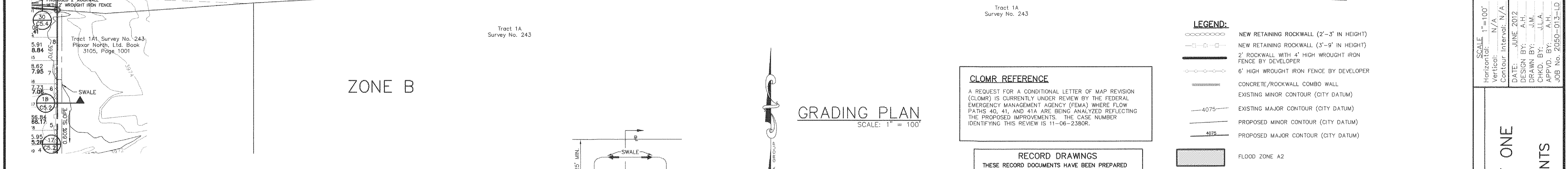
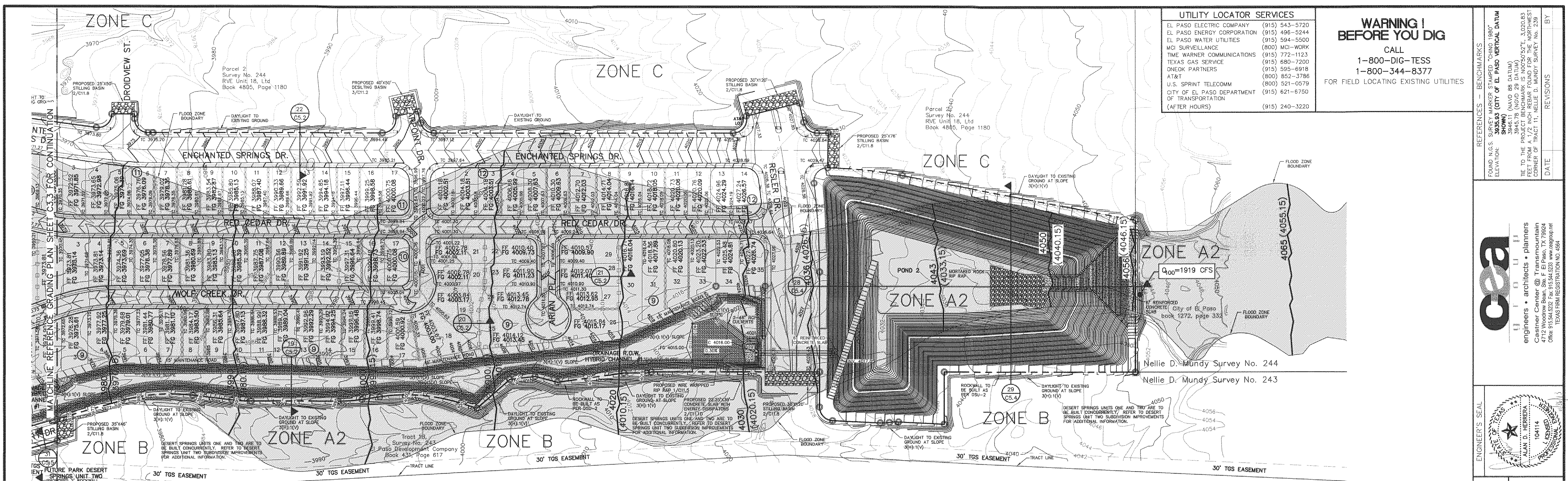
DATE: 10/24/2013
BY: A.H.

REVISED BY: A.H.

ADJUSTED TO FUTURE TRANSMOUNTAIN ADP

osa
engineers • architects • planners

Owner: Center @ El Paso
10014
4312
Office: 915.544.5232 Fax: 915.544.5233 www.osaeng.com
TEXAS FIRM REGISTRATION NO. 4584



GRADING PLAN
SCALE: 1" = 100'

CLOMR REFERENCE
A REQUEST FOR A CONDITIONAL LETTER OF MAP REVISION (CLOMR) IS CURRENTLY UNDER REVIEW BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WHERE FLOW PATHS 40, 41, AND 41A ARE BEING ANALYZED REFLECTING THE PROPOSED IMPROVEMENTS. THE CASE NUMBER IDENTIFYING THIS REVIEW IS 11-06-2380R.

RECORD DRAWINGS
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10/24/2013

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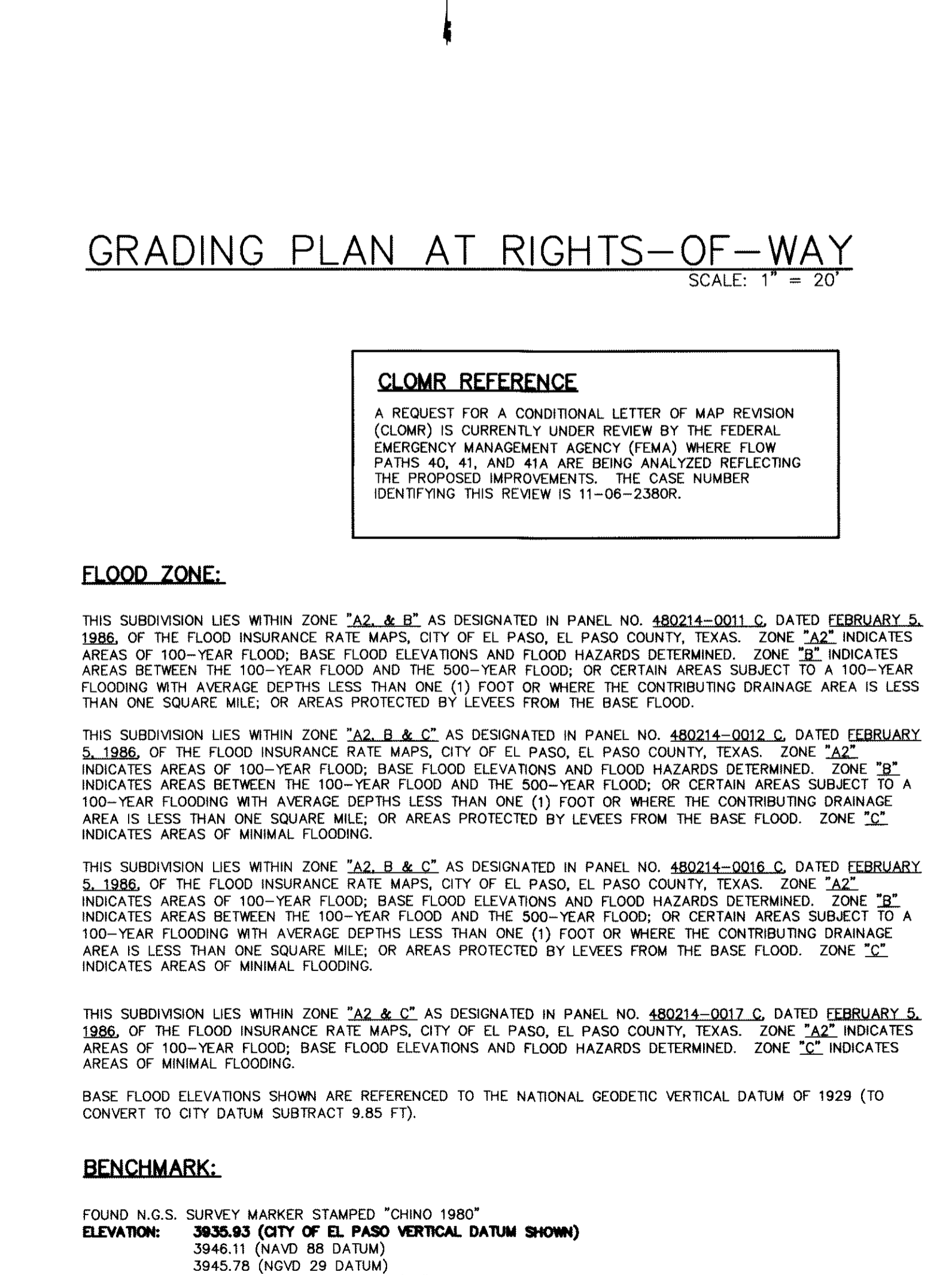
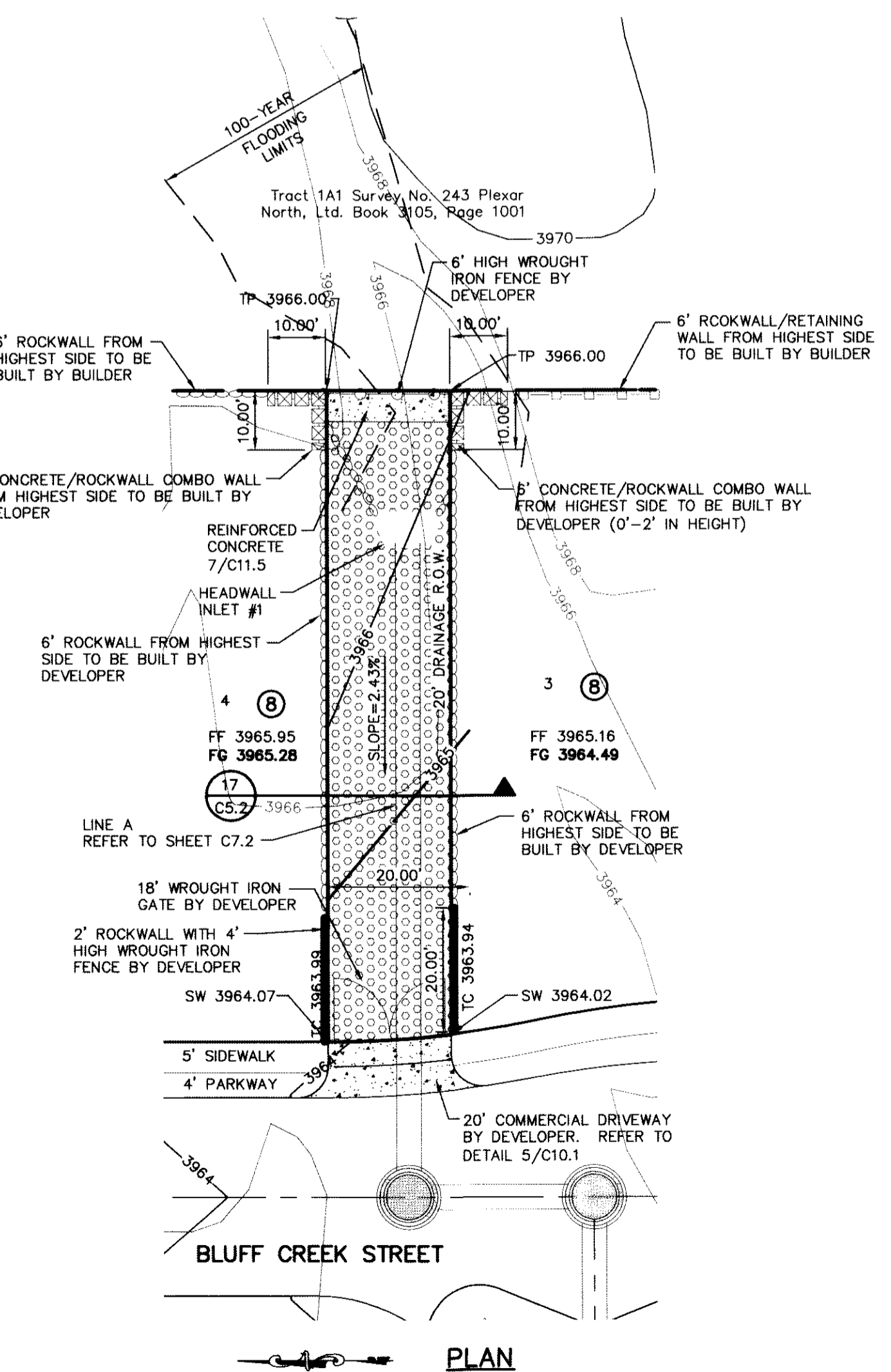
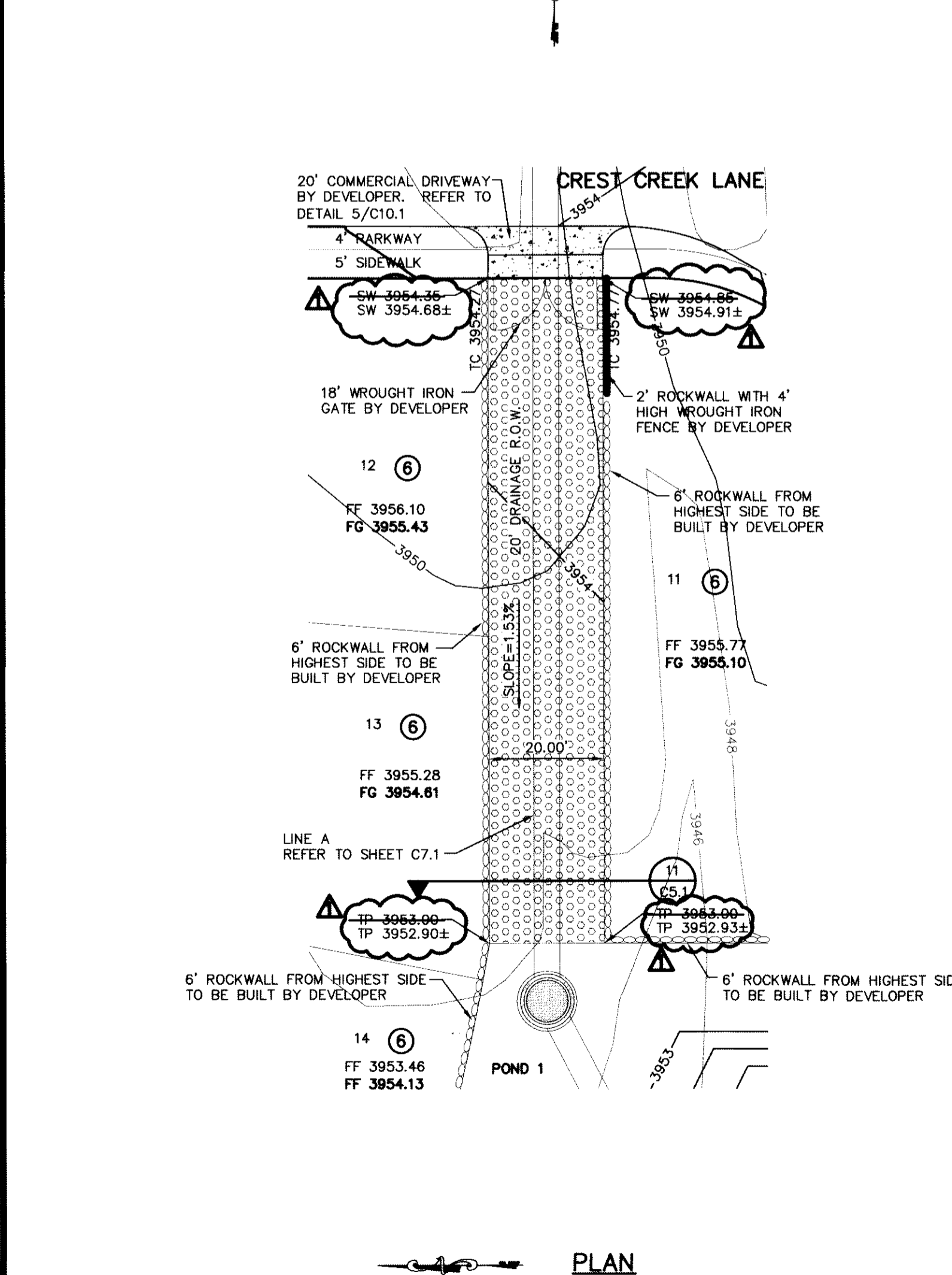
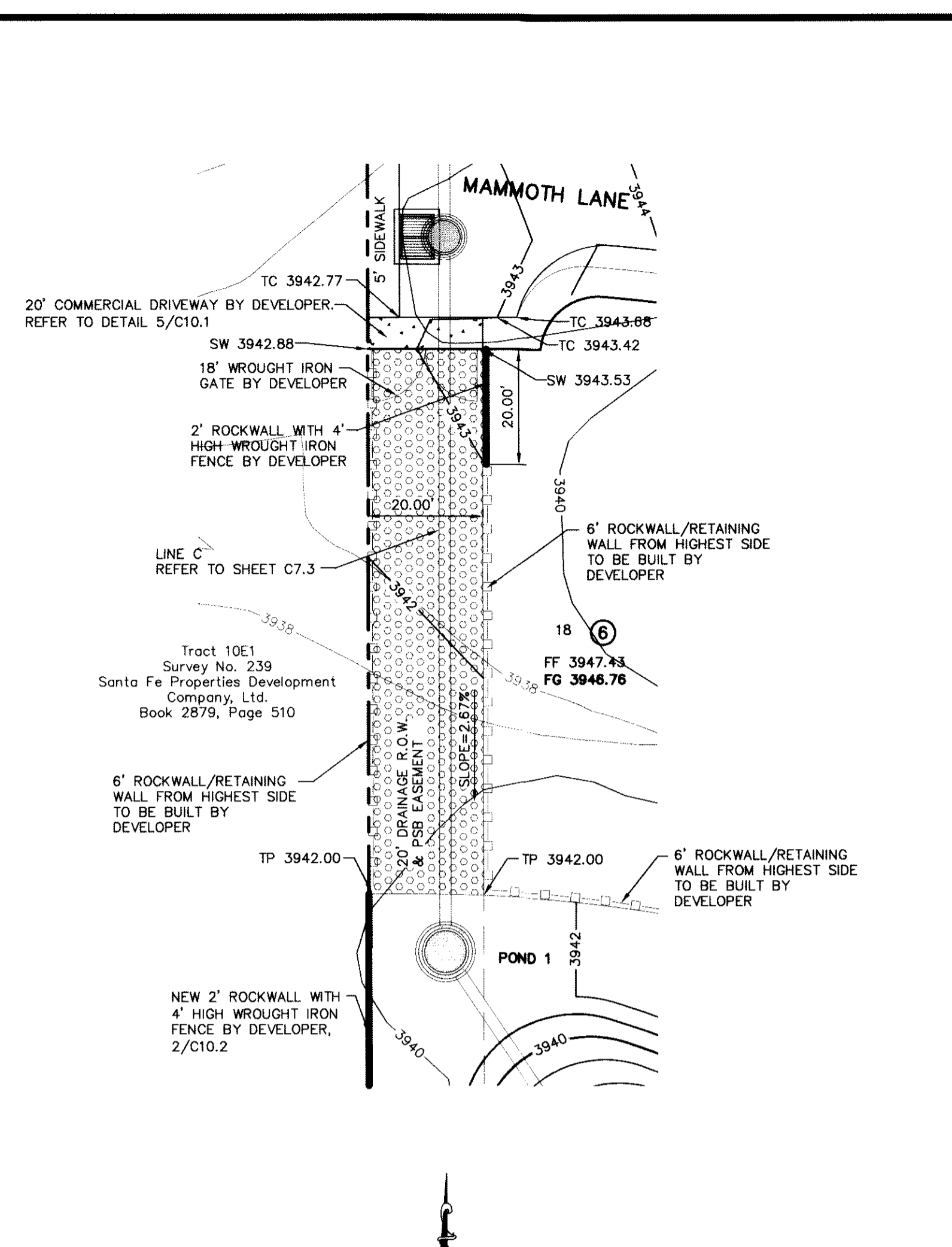
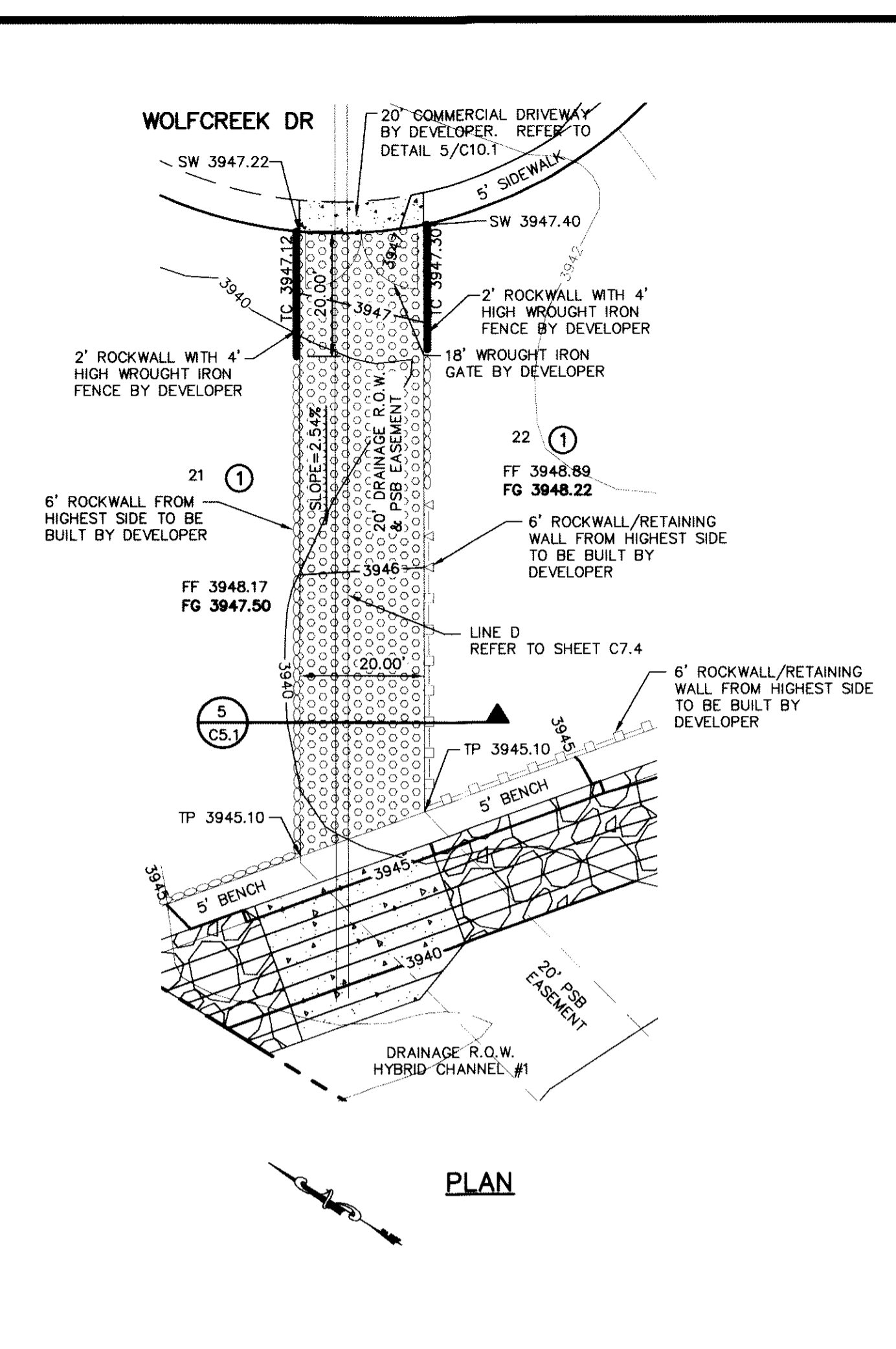
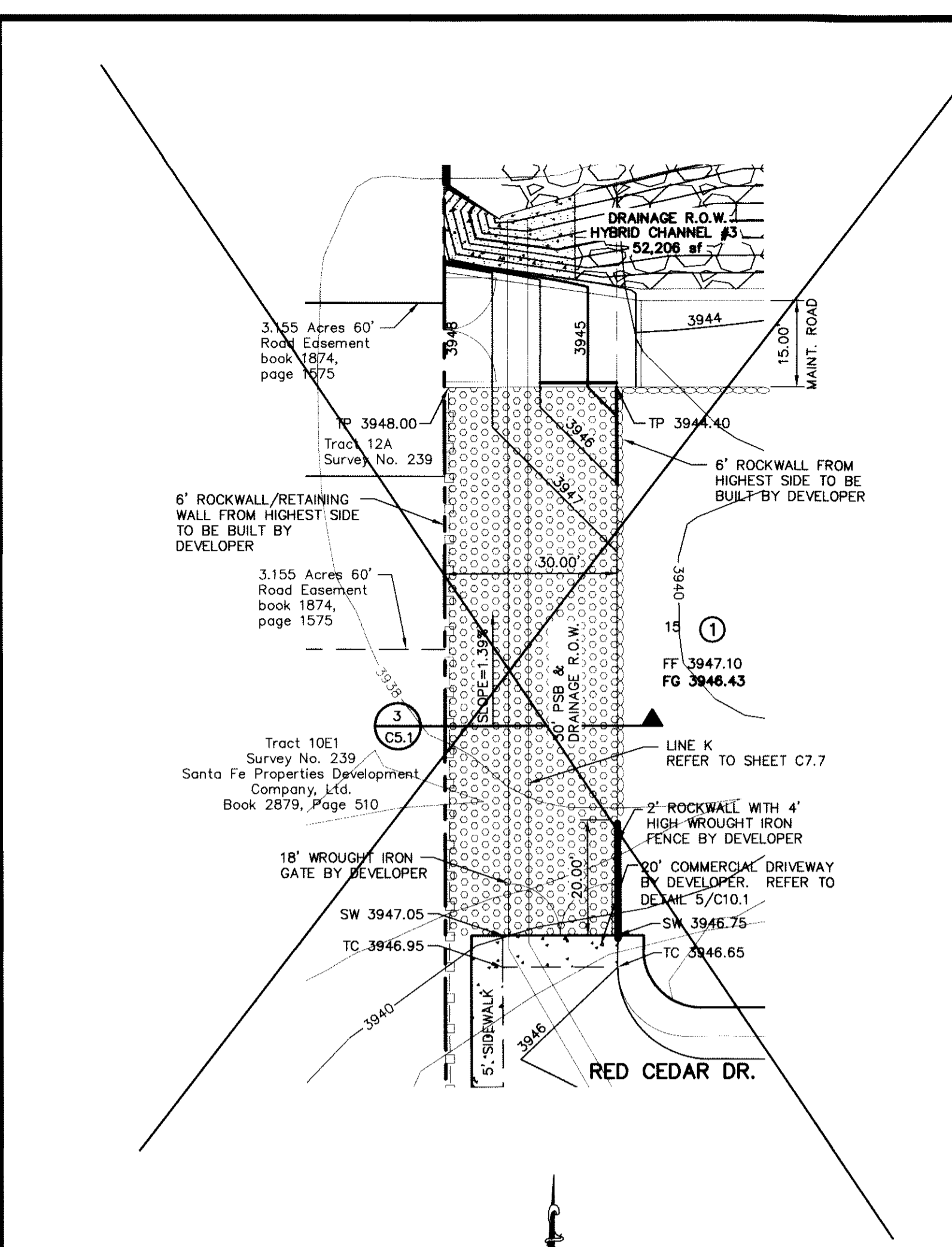
BENCHMARK:
FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
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3945.78 (NGVD 29 DATUM)
TIE TO THE PROJECT BENCHMARK IS 40050527E, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY NO. 239

NOTES:
1. DRIVEWAY SLOPES MUST BE 10% MAX. FROM GUTTER FOR FIRST 12 FEET AND 14% MAX. THEREAFTER (DRIVEWAY SHALL BE LOCATED ON HIGH SIDE OF LOT UNLESS OTHERWISE COORDINATED WITH CITY OF EL PASO)

PROJECT TITLE
DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

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

C3.4



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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 (915) 240-3220 |

WARNING ! BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

RECORD DRAWINGS

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10/24/2013

REFERENCE SUBDIVISION PHASE II

CEA GROUP, INC. ENGINEERS ARCHITECTS PLANNERS
4712 Woodrow Bean, Ste. F El Paso, TX 79924
Office 915.754.1111
Texas State Registration No. 486

DATE: 10/24/13
BY: JLD
REVISIONS: 10/24/13
ELEVATION CORRECTION

LEGEND:

| | |
|--|--|
| | NEW 6' HIGH ROCKWALL BY DEVELOPER |
| | NEW 6' HIGH RETAINING ROCKWALL (2'-3' IN RETAINING HEIGHT) BY DEVELOPER |
| | NEW 6' HIGH RETAINING ROCKWALL (3'-9' IN RETAINING HEIGHT) BY DEVELOPER |
| | NEW 2' ROCKWALL WITH 4' HIGH WROUGHT IRON FENCE BY DEVELOPER, 2/C10.2 |
| | NEW 6' HIGH WROUGHT IRON FENCE BY DEVELOPER, 3/C10.3 |
| | NEW 6' HIGH CONCRETE/ROCKWALL COMBO WALL BY DEVELOPER |
| | EXISTING MINOR CONTOUR (CITY DATUM) |
| | EXISTING MAJOR CONTOUR (CITY DATUM) |
| | PROPOSED MINOR CONTOUR (CITY DATUM) |
| | PROPOSED MAJOR CONTOUR (CITY DATUM) |
| | 1/2" H.M.A.C. 6" CRUSHED STONE BASE COURSE COMPACTED TO 100% AS PER ASTM D-1557, 8" SUBGRADE SCARIFIED AND COMPACTED TO 95% AS PER ASTM D-1557 |

NOTES:

- RETAINING WALLS SHALL BE CONSTRUCTED FOR VERTICAL GRADES GREATER THAN 2'-FEET.
- SLOPED AREAS WITHIN RESIDENTIAL LOTS SHALL BE MAINTAINED BY THE PROPERTY OWNERS.
- ALL RETAINING WALLS NOT SPECIFIED TO BE CONSTRUCTED BY DEVELOPER, SHALL BE BUILT BY BUILDER.
- DEVELOPER SHALL COMPLY WITH SECTION 13.08.170 (EXCESSIVE PAVING CUTS) OF THE EL PASO MUNICIPAL CODE.
- IMPROVEMENTS SHALL NOT BE PLACED ON SIDEWALK (NDOB)'S, SIGNS, POLES, FIRE HYDRANTS, ETC.
- IMPROVEMENTS SHALL COMPLY WITH T.A.S./A.D.A. STANDARDS
- U.S. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS.
- ALL WHEELCHAIR RAMPS WILL BE CONSTRUCTED BY DEVELOPER AS PART OF SUBDIVISION IMPROVEMENTS.
- TO CONVERT FROM NGVD 29 DATUM TO CITY OF EL PASO DATUM SUBTRACT 9.85'
- 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.
- PROPOSED TEMPORARY FIVE (5') FOOT HIGH DIVERSION DIKE/BERM & PRIVATE DRAINAGE STRUCTURES SHALL BE MAINTAINED BY DEVELOPER.
- THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN OKTEX EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.
- DESERT SPRINGS UNITS ONE AND TWO ARE TO BE BUILT CONCURRENTLY. REFER TO DESERT SPRINGS UNIT TWO SUBDIVISION IMPROVEMENTS FOR ADDITIONAL INFORMATION.

FLOOD ZONE:

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BENCHMARK:

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ENGINEER'S SEAL

PROJECT TITLE: DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

SHEET TITLE: GRADING PLAN (SHEET 3 OF 3)

SCALE: 1" = 100'

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

DATE: JUNE 2012
DESIGN BY: JLD
CHECKED BY: JLD
APP'D BY: JLD
JOB No. 2010-013-LD

10/24/13

C3.5

CLOMR REFERENCE

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10/24/2013

GENERAL NOTES:

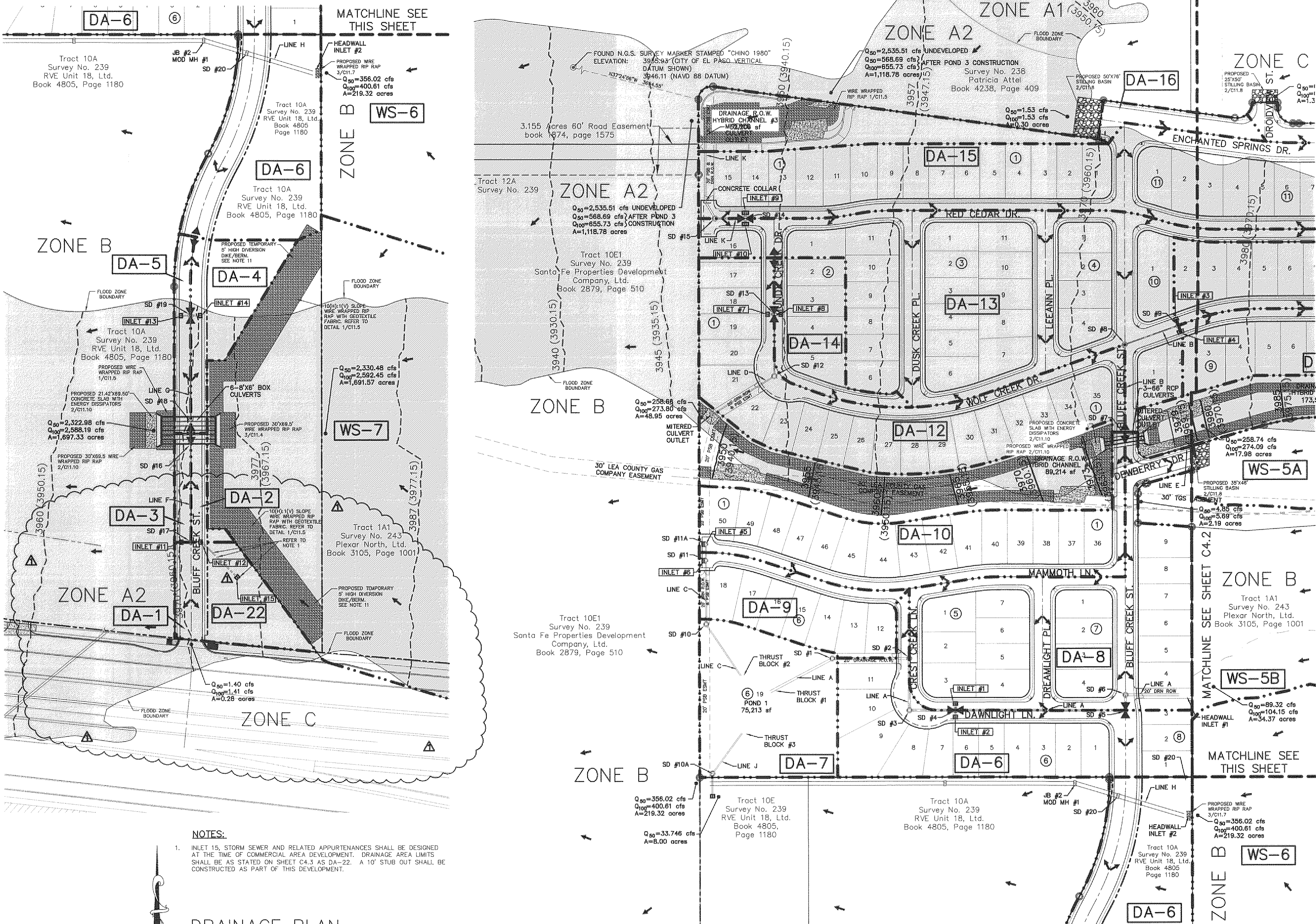
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- DRAINAGE CALCULATIONS OBTAINED FOR A PARTIAL AREA OF WS-5B THAT POTENTIALLY AFFECTS THE ROCKWALLS. THIS IS THE AREA FOR THE STORM RUNOFF GENERATED THAT THE PROPOSED SWALE WILL CONVEY TO LINE A. REFER TO CROSS SECTION 18/VS.2 FOR ADDITIONAL INFORMATION.
 $A=7.94$ acres
 $Q_{50}=31.480$ cfs
 $Q_{100}=38.150$ cfs
 $FWSE=1.85$ ft
 $V=3.03$ fps

UTILITY LOCATOR SERVICES

| | |
|--|-------------------------------|
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1-800-344-8377
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LEGEND:

- DRAINAGE AREA BOUNDARY
- DRAINAGE FLOW
- ▲ HIGH POINT
- ▼ LOW POINT
- DROP INLET
- ⊙ STORM DRAIN MANHOLE
- RCP
- THRUST BLOCK STRUCTURE

DA-D DRAINAGE AREA

- ▨ FLOOD ZONE A2
- ▩ FLOOD ZONE B
- ▧ FLOOD ZONE C (NO HATCHING)

4043 (4033.15) EFFECTIVE BASE FLOOD ELEVATION IN NGVD 29 DATUM (CITY DATUM)

4043 (4033.15) PROPOSED BASE FLOOD ELEVATION IN NGVD 29 DATUM (CITY DATUM)

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- NOTES:**
- INLET 15, STORM SEWER AND RELATED APPURTENANCES SHALL BE DESIGNED AT THE TIME OF COMMERCIAL AREA DEVELOPMENT. DRAINAGE AREA LIMITS SHALL BE AS STATED ON SHEET C4.3 AS DA-22. A 10' STUB OUT SHALL BE CONSTRUCTED AS PART OF THIS DEVELOPMENT.

DRAINAGE PLAN
SCALE: 1" = 100'

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3935.83 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NAVD 88 DATUM)
 3945.78 (NGVD 29 DATUM)

TIE TO THE PROJECT BENCHMARK IS N00°50'52"E, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY NO. 239

TO CONVERT TO CITY OF EL PASO DATUM SUBTRACT 9.85 FEET FROM NGVD 29 ELEVATION.
 TO CONVERT TO NGVD 29 SUBTRACT 0.33 FEET FROM NAVD 88

ENGINEER'S SEAL: ALAN D. HERRER, 10414, 4712 Woodrow Bean, Ste. F, El Paso, TX 79924, (915) 554-0333, www.ceaa.com

PROJECT TITLE: DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

SHEET TITLE: DRAINAGE PLAN (SHEET 1 OF 3)

DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.V.A.
 APPROVED BY: A.H.
 JOB NO.: 2005-013-LD

CEAA
 engineers • architects • planners
 Casstner Center @ Transmountain
 4712 Woodrow Bean, Ste. F, El Paso, TX 79924
 (915) 554-0333 www.ceaa.com
 TEXAS STATE REGISTRATION NO. 456

ADJUSTED TO FUTURE TRANSMOUNTAIN ACH

FLOOD ZONE:

THIS SUBDIVISION LIES WITHIN ZONE "A2 & B" AS DESIGNATED IN PANEL NO. 480214-0011 C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "B" INDICATES AREAS BETWEEN THE 100-YEAR FLOOD AND THE 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO A 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE, OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD.

THIS SUBDIVISION LIES WITHIN ZONE "A2, B & C" AS DESIGNATED IN PANEL NO. 480214-0012 C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "B" INDICATES AREAS BETWEEN THE 100-YEAR FLOOD AND THE 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO A 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE, OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD. ZONE "C" INDICATES AREAS OF MINIMAL FLOODING.

THIS SUBDIVISION LIES WITHIN ZONE "A2, B & C" AS DESIGNATED IN PANEL NO. 480214-0016 C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "B" INDICATES AREAS BETWEEN THE 100-YEAR FLOOD AND THE 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO A 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE, OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD. ZONE "C" INDICATES AREAS OF MINIMAL FLOODING.

THIS SUBDIVISION LIES WITHIN ZONE "A2 & C" AS DESIGNATED IN PANEL NO. 480214-0017 C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "C" INDICATES AREAS OF MINIMAL FLOODING.

BASE FLOOD ELEVATIONS SHOWN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (TO CONVERT TO CITY DATUM SUBTRACT 9.85 FT).

BENCHMARK:

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3935.93 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NAVD 88 DATUM)
 3945.78 (NGVD 29 DATUM)
 TIE TO THE PROJECT BENCHMARK IS N00°50'52"E, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

LEGEND:

| | | | |
|--|------------------------|----------------|--|
| | DRAINAGE AREA BOUNDARY | | DRAINAGE AREA |
| | DRAINAGE FLOW | | FLOOD ZONE A2 |
| | HIGH POINT | | FLOOD ZONE B |
| | LOW POINT | | FLOOD ZONE C (NO HATCHING) |
| | DROP INLET | | EFFECTIVE BASE FLOOD ELEVATION IN NGVD 29 DATUM (CITY DATUM) |
| | STORM DRAIN MANHOLE | | PROPOSED BASE FLOOD ELEVATION IN NGVD 29 DATUM (CITY DATUM) |
| | RCP | 4043 (4033.15) | |
| | THRUST BLOCK STRUCTURE | 4043 (4033.15) | |

UTILITY LOCATOR SERVICES

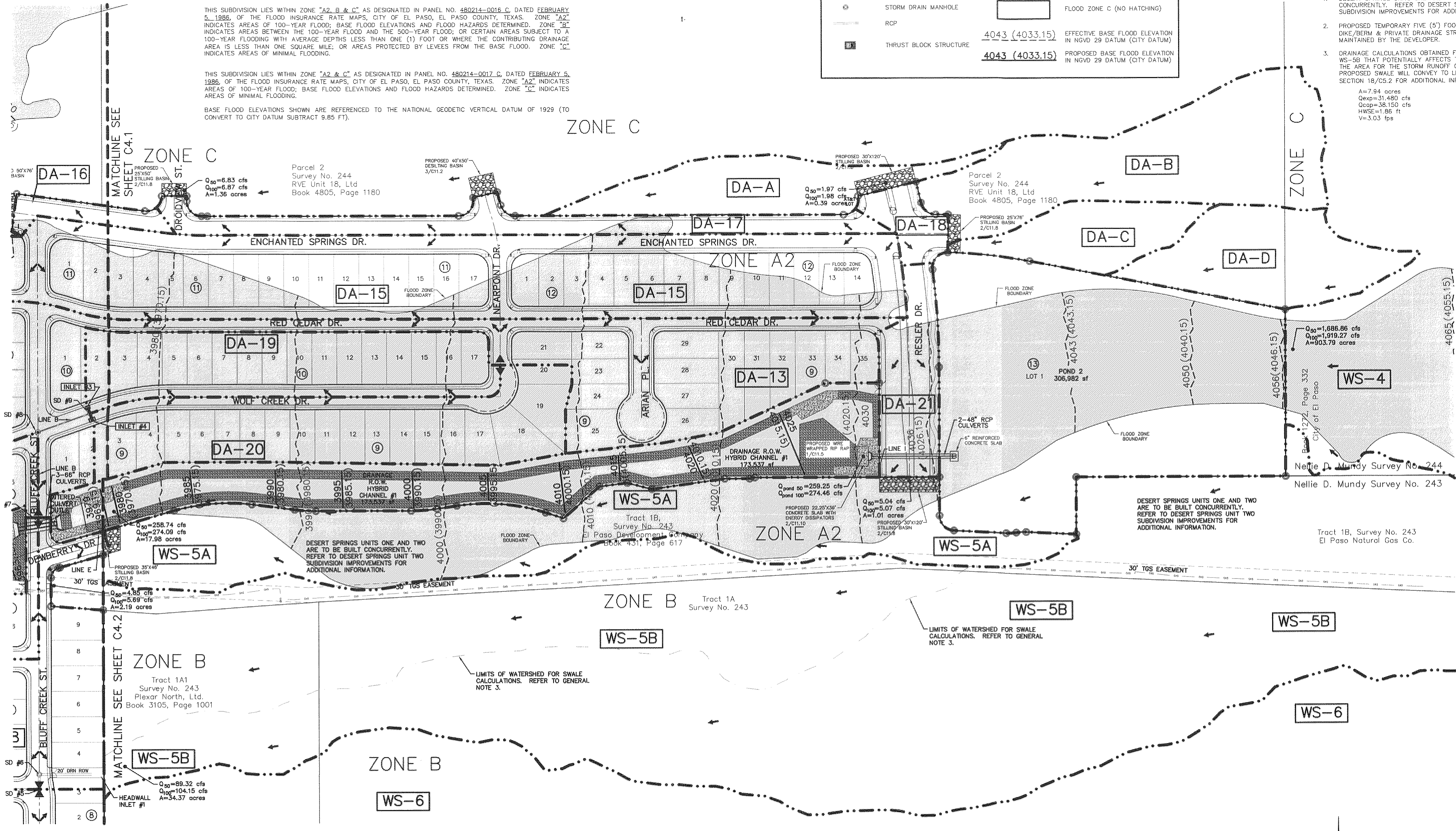
| | |
|--|----------------------------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONECK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 (915) 240-3220 |

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

GENERAL NOTES:

- DESERT SPRINGS UNITS ONE AND TWO ARE TO BE BUILT CONCURRENTLY. REFER TO DESERT SPRINGS UNIT TWO SUBDIVISION IMPROVEMENTS FOR ADDITIONAL INFORMATION.
- PROPOSED TEMPORARY FIVE (5) FOOT HIGH DIVERSION DIKE/BERM & PRIVATE DRAINAGE STRUCTURES SHALL BE MAINTAINED BY THE DEVELOPER.
- DRAINAGE CALCULATIONS OBTAINED FOR A PARTIAL AREA OF WS-5B THAT POTENTIALLY AFFECTS THE ROCKWALLS. THIS IS THE AREA FOR THE STORM RUNOFF GENERATED THAT THE PROPOSED SWALE WILL CONVEY TO LINE A. REFER TO CROSS SECTION 18/CS.2 FOR ADDITIONAL INFORMATION.

A=7.94 acres
 Q_{exp}=31,480 cfs
 Q_{prop}=38,150 cfs
 HWSE=1.86 ft
 V=3.03 fps



TOPOGRAPHIC SURVEY DATA:
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
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 TO CONVERT TO CITY OF EL PASO DATUM SUBTRACT 9.85 FEET FROM NGVD 29 ELEVATION.
 TO CONVERT TO NGVD 29 SUBTRACT 0.33 FEET FROM NAVD 88

CLOMR REFERENCE
 A REQUEST FOR A CONDITIONAL LETTER OF MAP REVISION (CLOMR) IS CURRENTLY UNDER REVIEW BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WHERE FLOW PATHS 40, 41, AND 41A ARE BEING ANALYZED REFLECTING THE PROPOSED IMPROVEMENTS. THE CASE NUMBER IDENTIFYING THIS REVIEW IS 11-06-2380R.

RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013

DRAINAGE PLAN
 SCALE: 1" = 100'

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 DRAINAGE PLAN
 (SHEET 2 OF 3)
 SHEET NO.
 C4.2

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

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPROV. BY: A.H.
 JOB No. 2050-013-LD

ENGINEER'S SEAL

REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3935.93 (CITY OF EL PASO VERTICAL DATUM SHOWN)
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REVISIONS

| DATE | BY | REVISIONS |
|------|----|-----------|
| | | |

WATERSHED AREAS

| DRAINAGE AREA No. | DRAINAGE AREA (ac) | DESIGN STORM INTENSITY (I ₅₀) | TIME OF CONCENTRATION | RUNOFF COEFF. (C) | Q ₅₀ (CFS) |
|-------------------|--------------------|---|-----------------------|-------------------|-----------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| DA-1 | 0.279 | 5.573 | 10.00 | 0.900 | 1.399 |
| DA-2 | 1.248 | 5.573 | 10.00 | 0.856 | 5.955 |
| DA-3 | 0.156 | 5.573 | 10.00 | 0.900 | 0.782 |
| DA-4 | 2.217 | 5.251 | 11.50 | 0.856 | 9.969 |
| DA-5 | 0.284 | 5.573 | 10.00 | 0.900 | 1.424 |
| DA-6 | 4.419 | 5.573 | 10.00 | 0.757 | 18.641 |
| DA-7 | 1.727 | 5.573 | 10.00 | 0.330 | 3.176 |
| DA-8 | 3.774 | 4.160 | 18.45 | 0.711 | 11.165 |
| DA-9 | 1.194 | 4.034 | 19.50 | 0.667 | 3.213 |
| DA-10 | 2.603 | 3.717 | 22.50 | 0.677 | 6.548 |
| DA-12 | 3.307 | 3.766 | 22.00 | 0.668 | 8.325 |
| DA-13 | 9.366 | 3.505 | 24.82 | 0.707 | 23.203 |
| DA-14 | 0.889 | 4.160 | 18.50 | 0.691 | 2.562 |
| DA-15 | 9.306 | 3.331 | 26.98 | 0.710 | 21.991 |
| DA-16 | 0.304 | 5.573 | 10.00 | 0.900 | 1.525 |
| DA-17 | 1.361 | 5.573 | 10.00 | 0.900 | 6.826 |
| DA-18 | 0.393 | 5.573 | 10.00 | 0.900 | 1.971 |
| DA-19 | 2.491 | 3.742 | 22.25 | 0.660 | 6.149 |
| DA-20 | 3.087 | 4.239 | 17.81 | 0.653 | 8.546 |
| DA-21 | 1.005 | 5.573 | 10.00 | 0.900 | 5.040 |
| DA-22 | 1.049 | 5.573 | 10.00 | 0.850 | 4.989 |

* DA-2 IS ASSUMING FULL DEVELOPMENT CONDITIONS. PRIOR TO FULL DEVELOPMENT, THE FLOW IS APPROXIMATELY 0.910 CFS.
 ** DA-4 IS ASSUMING FULL DEVELOPMENT CONDITIONS. PRIOR TO FULL DEVELOPMENT, THE FLOW IS APPROXIMATELY 3.841 CFS.
 *** DA-22 IS ASSUMING FULL DEVELOPMENT CONDITIONS. PRIOR TO FULL DEVELOPMENT, THE FLOW IS APPROXIMATELY 3.185 CFS.

| DRAINAGE AREA No. | DRAINAGE AREA (ac) | DESIGN STORM INTENSITY (I ₁₀₀) | TIME OF CONCENTRATION | RUNOFF COEFF. (C) | Q ₁₀₀ (CFS) |
|-------------------|--------------------|--|-----------------------|-------------------|------------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| DA-1 | 0.279 | 5.606 | 10.00 | 0.900 | 1.408 |
| DA-2 | 1.248 | 5.606 | 10.00 | 0.856 | 5.990 |
| DA-3 | 0.156 | 5.606 | 10.00 | 0.900 | 0.787 |
| DA-4 | 2.217 | 5.273 | 11.50 | 0.856 | 10.011 |
| DA-5 | 0.284 | 5.606 | 10.00 | 0.900 | 1.433 |
| DA-6 | 4.419 | 5.606 | 10.00 | 0.757 | 18.752 |
| DA-7 | 1.727 | 5.606 | 10.00 | 0.330 | 3.195 |
| DA-8 | 3.774 | 4.166 | 18.45 | 0.711 | 11.162 |
| DA-9 | 1.194 | 4.040 | 19.50 | 0.667 | 3.218 |
| DA-10 | 2.603 | 3.725 | 22.50 | 0.677 | 6.562 |
| DA-12 | 3.307 | 3.774 | 22.00 | 0.668 | 8.342 |
| DA-13 | 9.366 | 3.516 | 24.82 | 0.707 | 23.273 |
| DA-14 | 0.889 | 4.159 | 18.50 | 0.691 | 2.566 |
| DA-15 | 9.306 | 3.344 | 26.98 | 0.710 | 22.079 |
| DA-16 | 0.304 | 5.606 | 10.00 | 0.900 | 1.534 |
| DA-17 | 1.361 | 5.606 | 10.00 | 0.900 | 6.867 |
| DA-18 | 0.393 | 5.606 | 10.00 | 0.900 | 1.983 |
| DA-19 | 2.491 | 3.750 | 22.25 | 0.660 | 6.162 |
| DA-20 | 3.087 | 4.246 | 17.81 | 0.653 | 8.559 |
| DA-21 | 1.005 | 5.606 | 10.00 | 0.900 | 5.070 |
| DA-22 | 1.049 | 5.606 | 10.00 | 0.850 | 4.998 |

NOTES:

* Q_{xx} IS BASED ON DEVELOPED RUNOFF (50-yr or 100-yr)

REFERENCE: CITY OF EL PASO SUBDIVISION STANDARDS (3-11-97)

- (1) WATERSHED AREA IDENTIFICATION
- (2) AREA FROM DRAINAGE PLAN
- (3) RAINFALL INTENSITY, HYDROLOGY - LOCATED IN THE WESTSIDE REGION

50-YR STORM
b = 90.00
d = 12.000
e = 0.9000

100-YR STORM
b = 65.00
d = 9.500
e = 0.8250

- (4) TIME OF CONCENTRATION: TC = T (OVERLAND) + T (GUTTER)
- (5) RATIONAL METHOD DEVELOPED CONDITIONS RUNOFF COEFFICIENT, PLATE No. 2-10 TABLE A

COEFFICIENT
 BASIN AREA SPACE = 0.33
 PARK AREA SPACE = 0.40
 RESIDENTIAL AREA SPACE = 0.60
 CHANNEL AREA SPACE = 0.67
 ALLUVIAL AND OUTWASH SLOPES = 0.67
 PAVEMENT AREA SPACE = 0.90

- (6) Q_{xx} = C X A X I_{xx} (50-yr or 100-yr)

C = RATIONAL COEFFICIENT
 A = COMPUTED CONTRIBUTING WATERSHED AREA, acres
 I = RAINFALL INTENSITY, inch per hour

TOPOGRAPHIC SURVEY DATA:
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3935.83 (CITY OF EL PASO VERTICAL DATUM SHOWN)
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 TO CONVERT TO CITY OF EL PASO DATUM SUBTRACT 9.85 FEET FROM NGVD 29 ELEVATION.
 TO CONVERT TO NGVD 29 SUBTRACT 0.33 FEET FROM NAVD 88

CLMOR REFERENCE

A REQUEST FOR A CONDITIONAL LETTER OF MAP REVISION (CLMOR) IS CURRENTLY UNDER REVIEW BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WHERE FLOW PATHS 40, 41, AND 41A ARE BEING ANALYZED REFLECTING THE PROPOSED IMPROVEMENTS. THE CASE NUMBER IDENTIFYING THIS REVIEW IS 11-06-2380R.

DROP INLETS

| INLET ID | REQ. FLOW CAPACITY Q REQ (CFS) | ADDITIONAL FLOW (CFS) | AVAIL. FLOW CAPACITY Q AVAIL (CFS) | BYPASS FLOW (CFS) | NUMBER OF GRATES | TYPE OF INLET | LOCATION OF INLET |
|----------|--------------------------------|-----------------------|------------------------------------|-------------------|------------------|---------------|-------------------|
| #1 | 11.165 | 6.235 | 19.267 | 0.000 | 2 | 1 | SAG |
| #2 | 17.400 | 0.000 | 19.267 | 0.000 | 2 | 1 | SAG |
| 3 | 6.149 | 0.000 | 4.294 | 1.855 | 2 | 3 | ON-GRADE |
| 4 | 8.546 | 0.000 | 6.126 | 2.421 | 3 | 3 | ON-GRADE |
| 5 | 6.548 | 0.000 | 19.267 | 0.000 | 2 | 1 | SAG |
| 6 | 3.213 | 0.000 | 19.267 | 0.000 | 2 | 1 | SAG |
| 7 | 8.325 | 0.000 | 19.267 | 0.000 | 2 | 1 | SAG |
| 8 | 2.562 | 0.000 | 19.267 | 0.000 | 2 | 1 | SAG |
| 9 | 21.991 | 2.759 | 29.141 | 0.000 | 3 | 1 | SAG |
| ***10 | 23.203 | 1.547 | 29.141 | 0.000 | 3 | 1 | SAG |
| 11 | 0.782 | 0.000 | 1.571 | 0.000 | 2 | 1 | ON-GRADE |
| 12 | 5.955 | 0.000 | 7.250 | 0.000 | 2 | 1 | ON-GRADE |
| 13 | 1.424 | 0.000 | 19.267 | 0.000 | 2 | 1 | SAG |
| 14 | 9.969 | 0.000 | 19.267 | 0.000 | 2 | 1 | SAG |
| ***15 | 4.969 | 0.000 | 19.267 | 0.000 | 2 | 1 | SAG |

* WHENEVER DESERT SPRINGS UNIT TWO (DSU2) IS FULLY CONSTRUCTED, DSU2 INLET 3 WILL HAVE A FLOW BYPASS OF 0.148 CFS THAT WILL FLOW INTO THIS DEVELOPMENT'S INLET 1.
 ** INLET 2 IS AFFECTED BY DRAINAGE AREA DA-6. THE TOTAL RUNOFF GENERATED BY THIS WATERSHED IS 18.641 CFS, BUT DUE TO STREET CAPACITY AT CROWN POINT, APPROXIMATELY 3.812 CFS FLOW INTO INLET 1.
 *** INLET 10 IS AFFECTED BY THE FLOW BYPASS FROM INLETS 3 (1.885 CFS) AND 4 (2.421 CFS) THAT WILL FLOW INTO THIS INLET.
 INLET 10 IS ALSO AFFECTED BY DRAINAGE AREA DA-13. THE TOTAL RUNOFF GENERATED BY THIS WATERSHED IS 23.203 CFS, BUT DUE TO STREET CAPACITY AT CROWN POINT, APPROXIMATELY 2.759 CFS FLOW INTO INLET 9.
 **** INLET 15 SHALL BE DESIGNED AT THE TIME OF COMMERCIAL AREA DEVELOPMENT. DRAINAGE AREA LIMITS SHALL BE AS STATED ON THIS SHEET AS DA-22.

MOMENTUM COMPUTATIONS

| LOCATION AT INLET (1) | DEPTH (2) | VELOCITY (3) | PRODUCT NUMBER (4) |
|-----------------------|-----------|--------------|--------------------|
| 1 | 0.360 | 4.180 | 1.506 |
| 2 | 0.237 | 3.603 | 0.855 |
| 3 | 0.237 | 3.603 | 0.855 |
| 4 | 0.268 | 3.912 | 1.050 |
| 5 | 0.206 | 5.105 | 1.050 |
| 6 | 0.158 | 4.272 | 0.673 |
| 7 | 0.279 | 3.526 | 0.984 |
| 8 | 0.179 | 2.624 | 0.470 |
| 9 | 0.432 | 4.059 | 1.753 |
| 10 | 0.432 | 4.059 | 1.753 |
| 11 | 0.134 | 1.440 | 0.193 |
| 12 | 0.287 | 2.392 | 0.686 |
| 13 | 0.168 | 1.673 | 0.280 |
| 14 | 0.348 | 2.721 | 0.946 |
| 15 | 0.268 | 2.286 | 0.612 |

- (1) LOCATION
- (2) DEPTH, ft
- (3) VELOCITY, fps
- (4) PRODUCT NUMBER = DEPTH X VELOCITY, ft²/sec

EXTERNAL WATERSHED AREAS

| DRAINAGE AREA No. | DRAINAGE AREA (ac) | INITIAL LOSS | CONSTANT LOSS | STANDARD LAG TIME | PEAKING COEFF. (C) | Q ₅₀ (CFS) | Q ₁₀₀ (CFS) |
|-------------------|--------------------|--------------|---------------|-------------------|--------------------|-----------------------|------------------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| DA-A | 1.456 | 0.50 | 0.25 | 0.100 | 0.6125 | 5.78 | 8.36 |
| DA-B | 3.347 | 0.50 | 0.25 | 0.100 | 0.6125 | 13.28 | 16.01 |
| DA-C | 1.027 | 0.50 | 0.25 | 0.100 | 0.6125 | 4.07 | 4.91 |
| DA-D | 1.717 | 0.50 | 0.25 | 0.100 | 0.6125 | 6.81 | 8.21 |
| WS-4 | 903.458 | 0.50 | 0.25 | 0.399 | 0.6125 | 1693.74 | 1927.05 |
| WS-5A | 5.858 | 0.50 | 0.25 | 0.119 | 0.6125 | 21.59 | 25.87 |
| WS-5B | 34.366 | 0.50 | 0.25 | 0.238 | 0.6125 | 89.32 | 104.15 |
| WS-6 | 219.321 | 0.50 | 0.25 | 0.502 | 0.6125 | 356.02 | 400.61 |
| * WS-7 | 456.513 | 0.50 | 0.25 | 0.787 | 0.6125 | 534.87 | 587.21 |
| * WS-8 | 1235.055 | 0.50 | 0.25 | 0.529 | 0.6125 | 1912.77 | 2145.61 |

DRAINAGE RUNOFF CALCULATIONS HAVE BEEN DESIGNED AND ANALYZED FOR THE OVERALL AREA AFFECTING FLOWPATHS 41, 41A AND DESERT SPRINGS DEVELOPMENT. CALCULATIONS ARE BASED FROM HYDROLOGY MODEL HEC-HMS (Version 3.5).
 LOSS METHOD: INITIAL AND CONSTANT TRANSFORM METHOD: SNYDER UNIT HYDROGRAPH

- (1) WATERSHED AREA IDENTIFICATION
- (2) AREA FROM DRAINAGE PLAN, acres
- (3) INITIAL LOSS, inches
- (4) CONSTANT RATE LOSS, inches per hour
- (5) STANDARD LAG TIME, hours
- (6) PEAKING COEFFICIENT FOR EL PASO AREA
- (7) 50-yr PEAK DISCHARGE RUNOFF, cfs
- (8) 100-yr PEAK DISCHARGE RUNOFF, cfs

* WS-8 FLOWS INTO WS-7, BUT IT IS BROKEN DOWN INTO DIFFERENT WATERSHEDS DUE TO ITS DIFFERENT DRAINAGE CHARACTERISTICS.
 THE COMBINED FLOW AT THE EASTERN PROPERTY LINE FOR THE Q50 IS 2,330.48 CFS AND FOR THE Q100 IS 2,592.45 CFS.

RECORD DRAWINGS

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 10/24/2013

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
 ONEOK PARTNERS (915) 595-6918
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750 (AFTER HOURS)
 (915) 240-3220

WARNING I BEFORE YOU DIG

CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

BENCHMARK:

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3935.83 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3945.11 (NAVD 88 DATUM)
 3945.78 (NGVD 29 DATUM)
 TIE TO THE PROJECT BENCHMARK IS N00°50'52"E, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

FLOOD ZONE:

THIS SUBDIVISION LIES WITHIN ZONE "A2 & B" AS DESIGNATED IN PANEL NO. 480214-0011 C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "B" INDICATES AREAS BETWEEN THE 100-YEAR FLOOD AND THE 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO A 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE; OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD.
 THIS SUBDIVISION LIES WITHIN ZONE "A2, B & C" AS DESIGNATED IN PANEL NO. 480214-0012 C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "B" INDICATES AREAS BETWEEN THE 100-YEAR FLOOD AND THE 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO A 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE; OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD. ZONE "C" INDICATES AREAS OF MINIMAL FLOODING.
 THIS SUBDIVISION LIES WITHIN ZONE "A2, B & C" AS DESIGNATED IN PANEL NO. 480214-0016 C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "B" INDICATES AREAS BETWEEN THE 100-YEAR FLOOD AND THE 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO A 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE; OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD. ZONE "C" INDICATES AREAS OF MINIMAL FLOODING.
 THIS SUBDIVISION LIES WITHIN ZONE "A2 & C" AS DESIGNATED IN PANEL NO. 480214-0017 C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "C" INDICATES AREAS OF MINIMAL FLOODING.

BASE FLOOD ELEVATIONS SHOWN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (TO CONVERT TO CITY DATUM SUBTRACT 9.85 FT).

POND 1 CALCULATIONS
 10-YEAR STORM EVENT
 A total = 51.22 acres
 Q inflow = 107.18 cfs
 Q outflow = 0.00 cfs
 Q storage = 5.2 ac-ft
 Q elevation = 3935.39

TOTAL req = 5,200 AC-FT
 TOTAL cap = 10,031 AC-FT

POND 2 CALCULATIONS
 10-YEAR STORM EVENT
 A total = 910.18 acres
 Q inflow = 1260.28 cfs
 Q outflow = 0.00 cfs
 Q storage = 93.8 ac-ft
 Q elevation = 4019.59

TOTAL req = 93,800 AC-FT
 TOTAL cap = 123,963 AC-FT

POND 1 CALCULATIONS
 50-YEAR STORM EVENT
 A total = 51.22 acres
 Q inflow = 138.94 cfs
 Q outflow = 0.00 cfs
 Q storage = 7.4 ac-ft
 Q elevation = 3938.24

TOTAL req = 7,400 AC-FT
 TOTAL cap = 10,031 AC-FT

POND 2 CALCULATIONS
 50-YEAR STORM EVENT
 A total = 910.18 acres
 Q inflow = 1692.13 cfs
 Q outflow = 0.00 cfs
 Q storage = 116.4 ac-ft
 Q elevation = 4024.44

TOTAL req = 116,400 AC-FT
 TOTAL cap = 123,963 AC-FT

POND 1 CALCULATIONS
 100-YEAR STORM EVENT
 A total = 51.22 acres
 Q inflow = 163.30 cfs
 Q outflow = 0.00 cfs
 Q storage = 7.6 ac-ft
 Q elevation = 3938.48

TOTAL req = 7,600 AC-FT
 TOTAL cap = 10,031 AC-FT

POND 2 CALCULATIONS
 100-YEAR STORM EVENT
 A total = 910.18 acres
 Q inflow = 1924.65 cfs
 Q outflow = 0.00 cfs
 Q storage = 119.1 ac-ft
 Q elevation = 4025.00

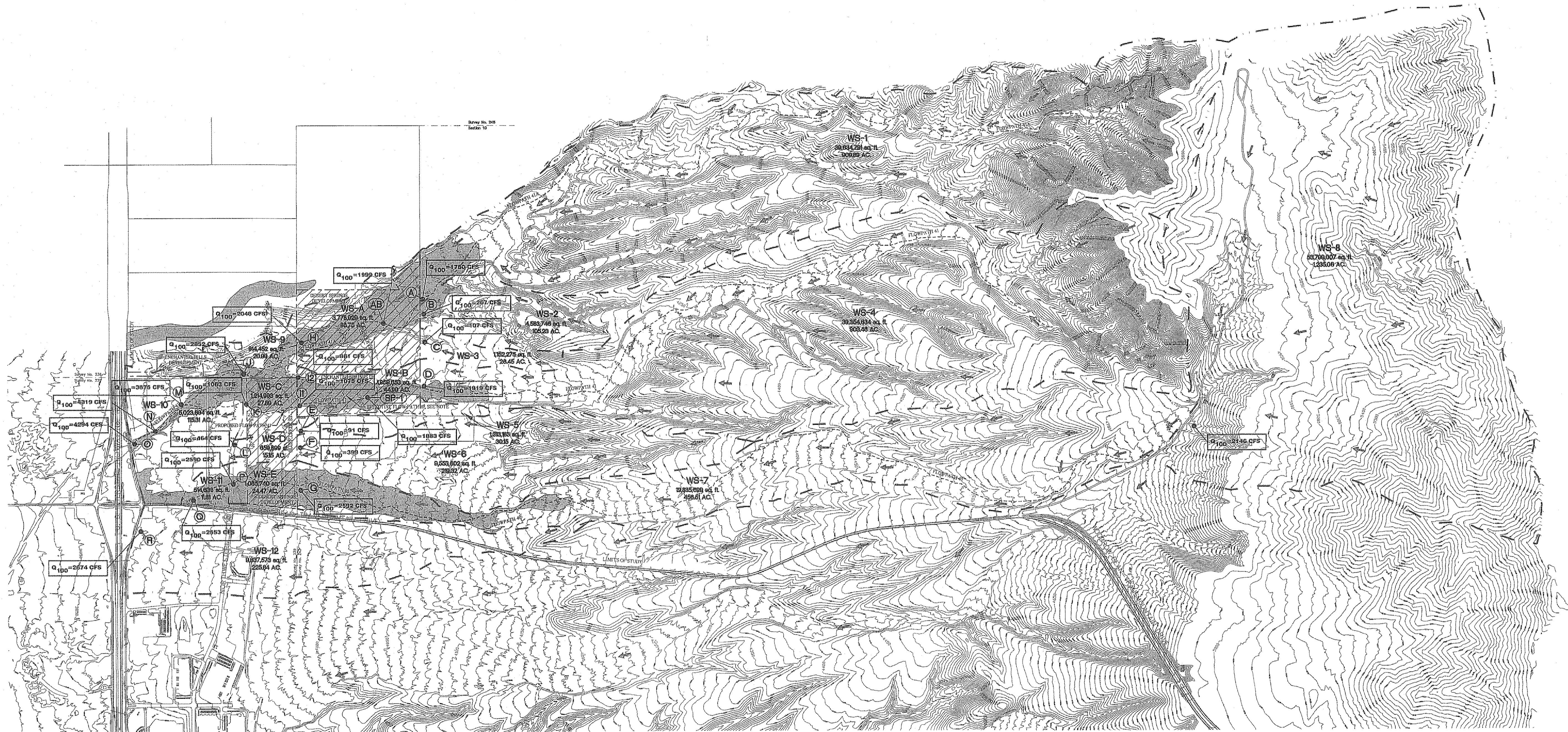
TOTAL req = 119,100 AC-FT
 TOTAL cap = 123,963 AC-FT

DRAINAGE RUNOFF CALCULATIONS HAVE BEEN DESIGNED AND ANALYZED FOR THE OVERALL AREA AFFECTING FLOWPATHS 41, 41A AND DESERT SPRINGS DEVELOPMENT. CALCULATIONS ARE BASED FROM HYDROLOGY MODEL HEC-HMS (Version 3.5).
 LOSS METHOD: INITIAL AND CONSTANT TRANSFORM METHOD: SNYDER UNIT HYDROGRAPH
 THE HYDRAULICS/HYDROLOGY OF THE BASIN WAS DESIGNED TO 3921 ELEVATION. THE BASIN HAS AN ADDITIONAL 2.431 AC-FT POND CAPACITY STORAGE FOR POSSIBLE SILT ACCUMULATION/STORAGE.
 0.012 ac-ft/acre (SAND & SILT)
 (0.012 ac-ft/acre)(51.22 acres)
 SILT VOLUME = 0.615 ac-ft
 Q storm = 7.600 + 0.615 = 8.215 AC-FT

DRAINAGE RUNOFF CALCULATIONS HAVE BEEN DESIGNED AND ANALYZED FOR THE OVERALL AREA AFFECTING FLOWPATHS 41, 41A AND DESERT SPRINGS DEVELOPMENT. CALCULATIONS ARE BASED FROM HYDROLOGY MODEL HEC-HMS (Version 3.5).
 LOSS METHOD: INITIAL AND CONSTANT TRANSFORM METHOD: SNYDER UNIT HYDROGRAPH
 THE HYDRAULICS/HYDROLOGY OF THE BASIN WAS DESIGNED TO 3986 ELEVATION. THE BASIN HAS AN ADDITIONAL DEPTH FOR POSSIBLE SILT ACCUMULATION/STORAGE.
 0.006 ac-ft/acre (ALLUVIAL)
 (0.006 ac-ft/acre)(910.18 acres)
 SILT VOLUME = 5.461 ac-ft

POND 1 AREAS

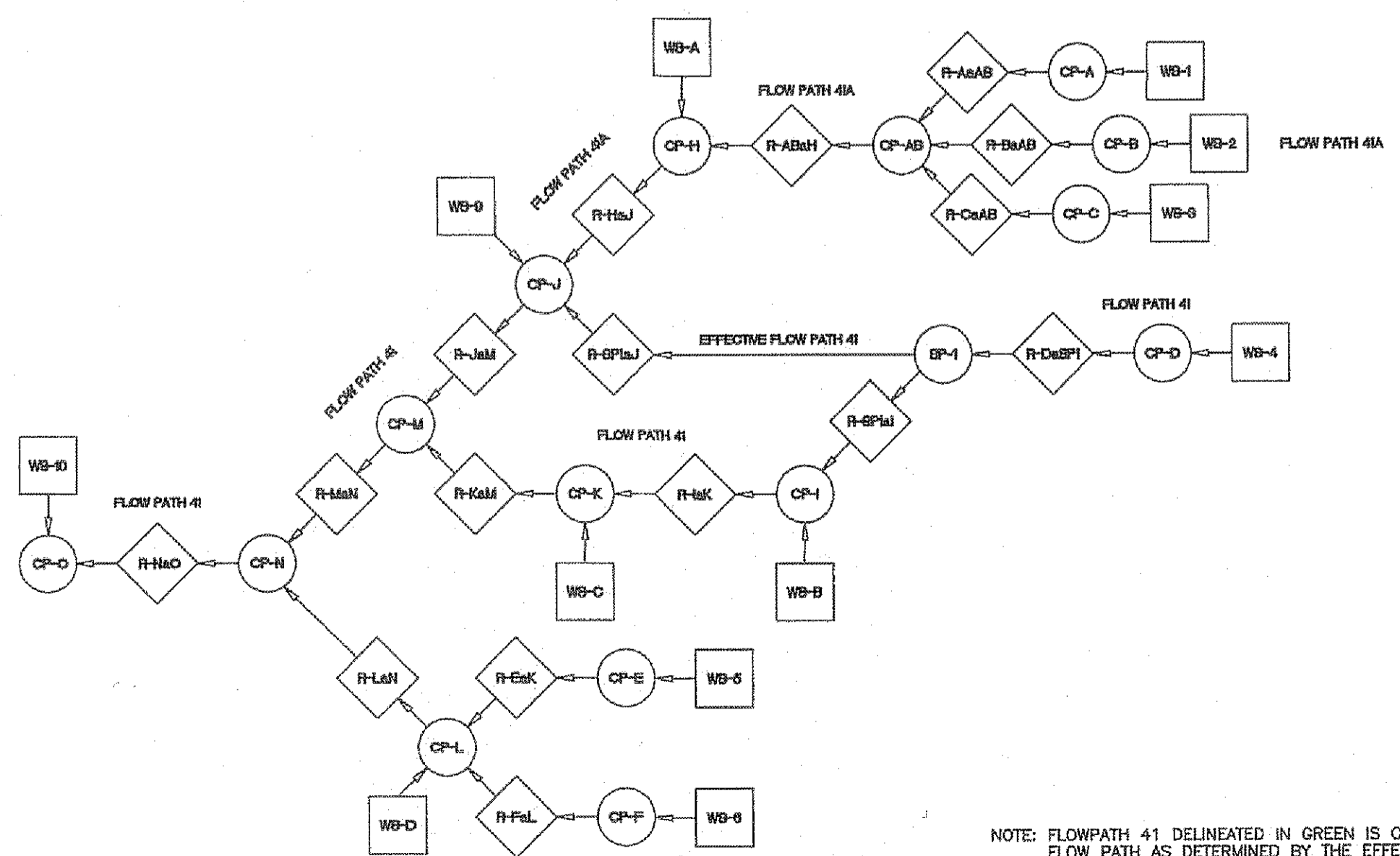
| CONTOUR | ACCUMULATED VOLUME |
|---------|--------------------|
| | (ac-ft) |
| 3941 | 10.031 |
| 3940 | 9.030 |
| 3939 | 8.088 |
| 3938 | 7.204 |
| 3937 | 6.375 |
| 3936 | 5.601 |
| 3935 | 4.879 |
| 3934 | 4.208 |
| 3933 | 3.587 |
| 3932 | 3.013 |
| 3931.1 | 2.538 |
| 3931 | 2.492 |
| 3930 | 2.086 |
| 3929 | 1.720 |
| 3928 | 1.391 |
| 3927 | 1. |



SCALE: 1"=1000'

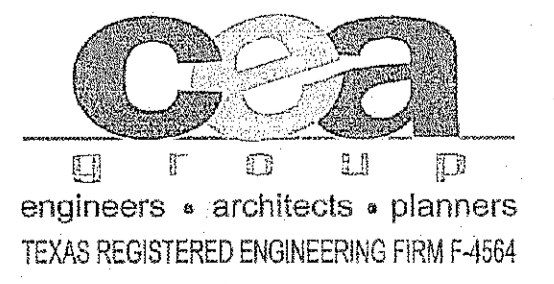


FLOW PATH No. 41 AND 41A



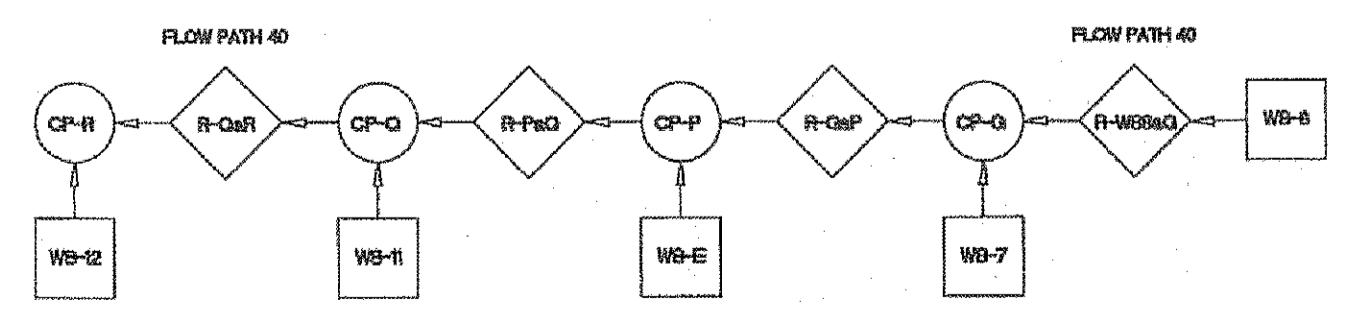
TOPOGRAPHIC SURVEY DATA:
 BENCHMARK: FOUND SURVEY "CHINO" MARK, 3020.83 FEET TO A 1/2 INCH REBAR LOCATED ON THE EAST SIDE R.O.W. OF INTERSTATE HIGHWAY 10.
 CONTOUR INFORMATION SHOWN IS ON NGVD 29 DATUM.
 ELEVATION: 3946.11 (NAVD 88 DATUM)
 3945.78 (NGVD 29 DATUM) - PLANS USED DATUM
 3935.93 (CITY DATUM)
 TO CONVERT TO CITY OF EL PASO DATUM SUBTRACT 9.85 FEET FROM NGVD 29 ELEVATION.
 TO CONVERT TO NAVD 88 ADD 0.33 FEET TO NGVD 29 ELEVATION.
 KOOGLE & POLLS ENGINEERING MAPPING REFERENCING THE STATE PLANE COORDINATE SYSTEM

EXISTING DRAINAGE CONDITIONS
 PRE-PROJECT CONDITIONS
 DESERT SPRINGS CHANNELS
 No. 1 & 2



NOTE: FLOWPATH 41 DELINEATED IN GREEN IS CURRENTLY THE EFFECTIVE FLOW PATH AS DETERMINED BY THE EFFECTIVE FIRM MAPS. IN THIS STUDY, BASED ON THE TOPOGRAPHIC CONDITIONS AND FINDINGS, FLOW PATH 41 HAS BEEN REALIGNED.

FLOW PATH No. 40



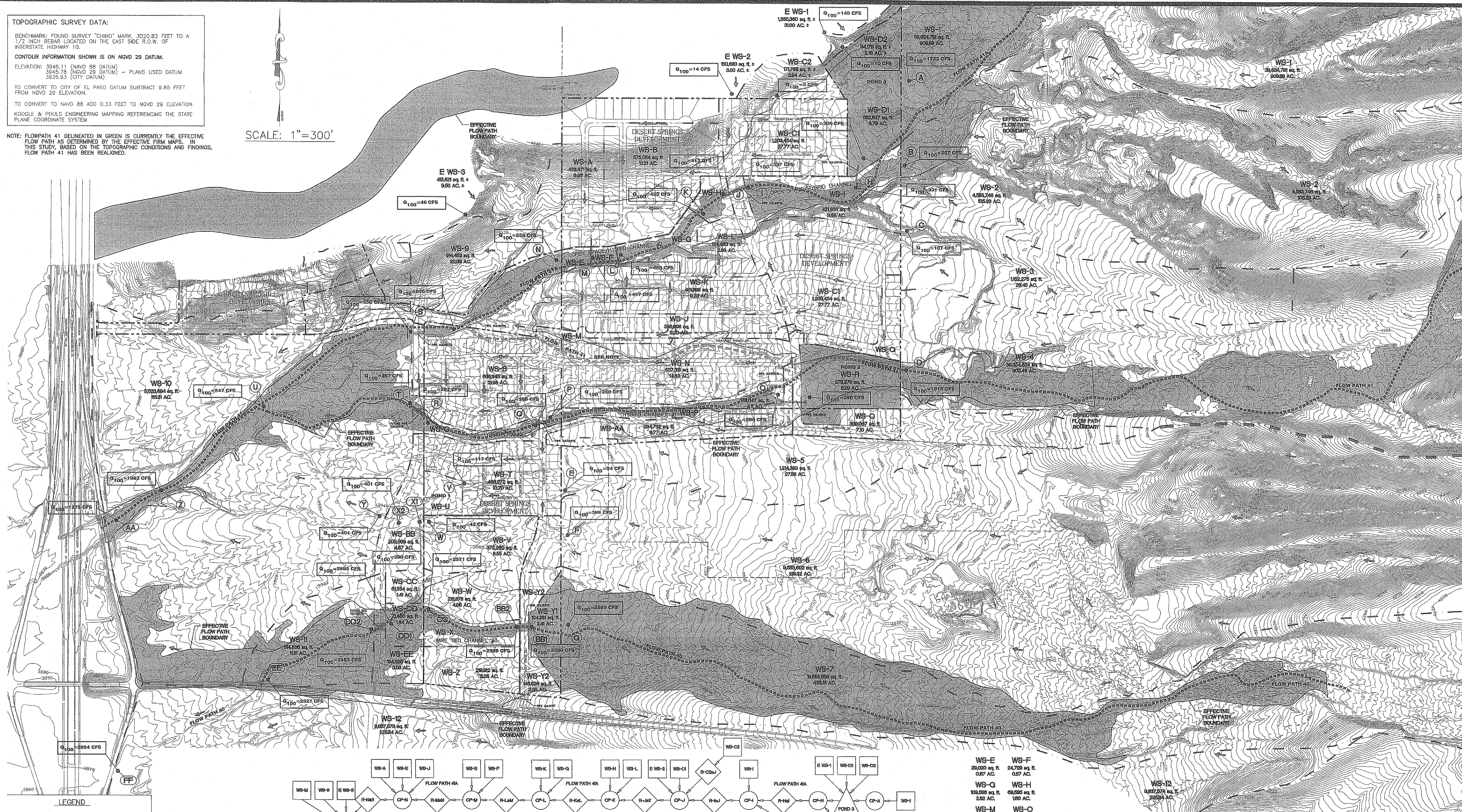
- LEGEND**
- WB-1 WATERSHED ID
 - (A) CONCENTRATION POINT
 - - - SUBDIVISION BOUNDARY
 - - - WATERSHED BOUNDARY
 - [] FLOOD BOUNDARY
 - [WB-1] WATERSHED HYDROGRAPH
 - [REACH 1] ROUTE HYDROGRAPH
 - [COMB 1] COMBINE HYDROGRAPH
 - ← DRAINAGE FLOW

TOPOGRAPHIC SURVEY DATA:

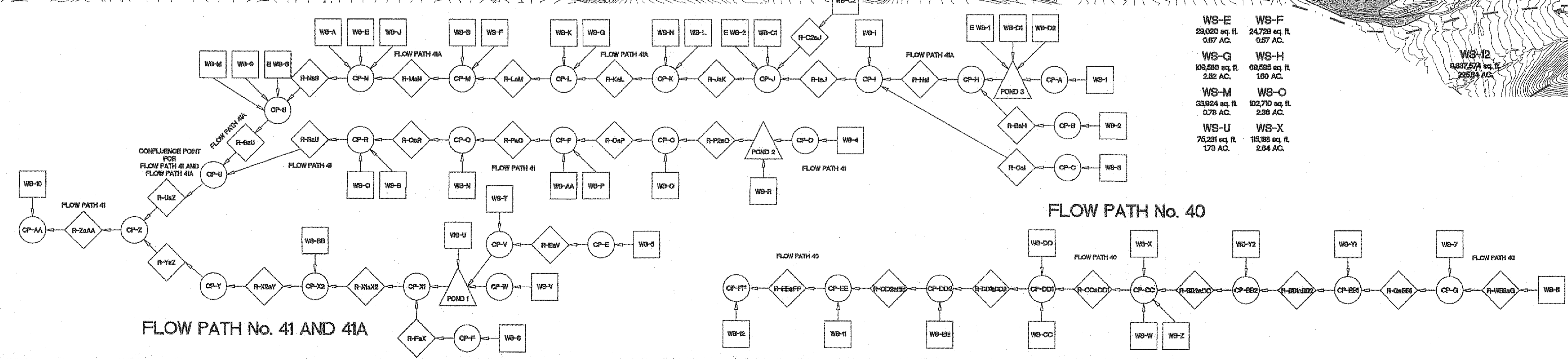
BENCHMARK: FOUND SURVEY "CHINO" MARK, 3020.83 FEET TO A 1/2 INCH REBAR LOCATED ON THE EAST SIDE R.O.W. OF INTERSTATE HIGHWAY 10.
 CONTOUR INFORMATION SHOWN IS ON NGVD 29 DATUM.
 ELEVATION: 3946.11 (NAVD 88 DATUM)
 3845.78 (NGVD 29 DATUM) - PLANS USED DATUM
 3935.93 (CITY DATUM)
 TO CONVERT TO CITY OF EL PASO DATUM SUBTRACT 9.85 FEET FROM NGVD 29 ELEVATION.
 TO CONVERT TO NAVD 88 ADD 0.33 FEET TO NGVD 29 ELEVATION.
 KOOGLE & POULS ENGINEERING MAPPING REFERENCING THE STATE PLANE COORDINATE SYSTEM

NOTE: FLOW PATH 41 DELINEATED IN GREEN IS CURRENTLY THE EFFECTIVE FLOW PATH AS DETERMINED BY THE EFFECTIVE FIRM MAPS. IN THIS STUDY, BASED ON THE TOPOGRAPHIC CONDITIONS AND FINDINGS, FLOW PATH 41 HAS BEEN REALIGNED.

SCALE: 1"=300'

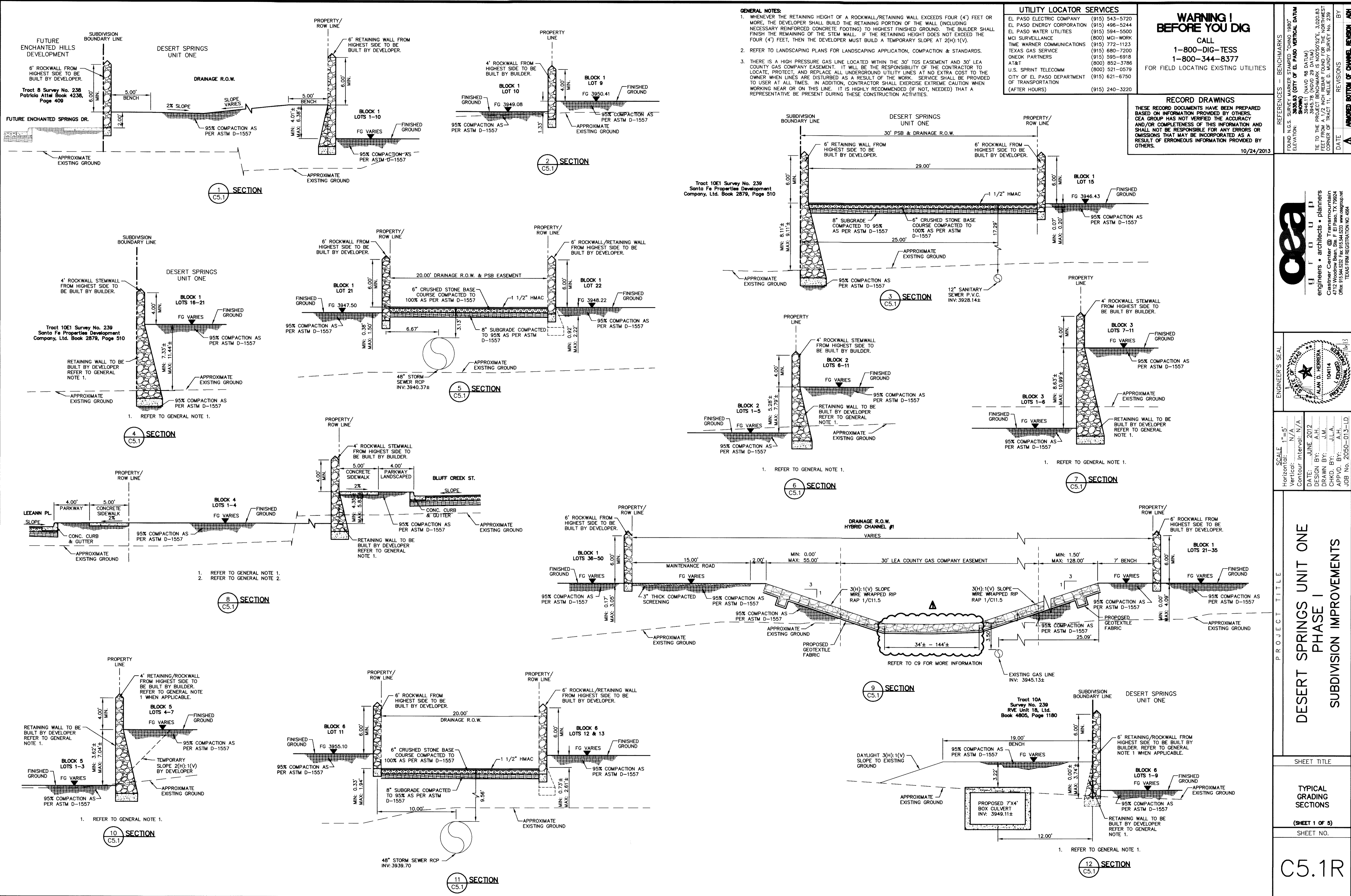


- LEGEND**
- WS-1 WATERSHED ID
 - (A) CONCENTRATION POINT
 - SUBDIVISION BOUNDARY
 - WATERSHED BOUNDARY
 - ▭ FLOOD BOUNDARY
 - WS-1 WATERSHED HYDROGRAPH
 - ◇ REACH ID
 - ◇ COMB ID
 - ← DRAINAGE FLOW



PROPOSED DRAINAGE CONDITIONS
 POST-PROJECT CONDITIONS
 DESERT SPRINGS CHANNELS
 No. 1 & 2

ca
 GROUP
 engineers • architects • planners
 TEXAS REGISTERED ENGINEERING FIRM F-4564



GENERAL NOTES:

- 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 2(H):1(V).
- REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.
- THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN THE 30' TGS EASEMENT AND 30' LEA COUNTY GAS COMPANY EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT, NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.

UTILITY LOCATOR SERVICES

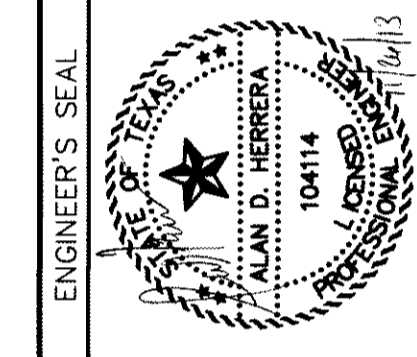
| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

RECORD DRAWINGS
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 10/24/2013

REFERENCES - BENCHMARKS
 FOUND U.S.S. SURVEY MARKER STAMPED "FOUNDA 1987" ELEVATION: 3944.11 (CITY OF EL PASO VERTICAL DATUM) 3944.11 (NAVD 88 DATUM)
 TIE TO THE PROJECT BENCHMARK IS 1009.927E, 3.020.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY NO. 239
 DATE: _____ BY: _____
 REVISIONS: _____
 APPROVED BOTTOM OF CHANNEL, REVISION: _____

osea
 ENGINEERS • ARCHITECTS • PLANNERS
 Castner Center @ Transmountain
 4712 Woodcrest, Suite 404, El Paso, TX 79924
 (915) 755-1444
 TEXAS REGISTRATION NO. 468

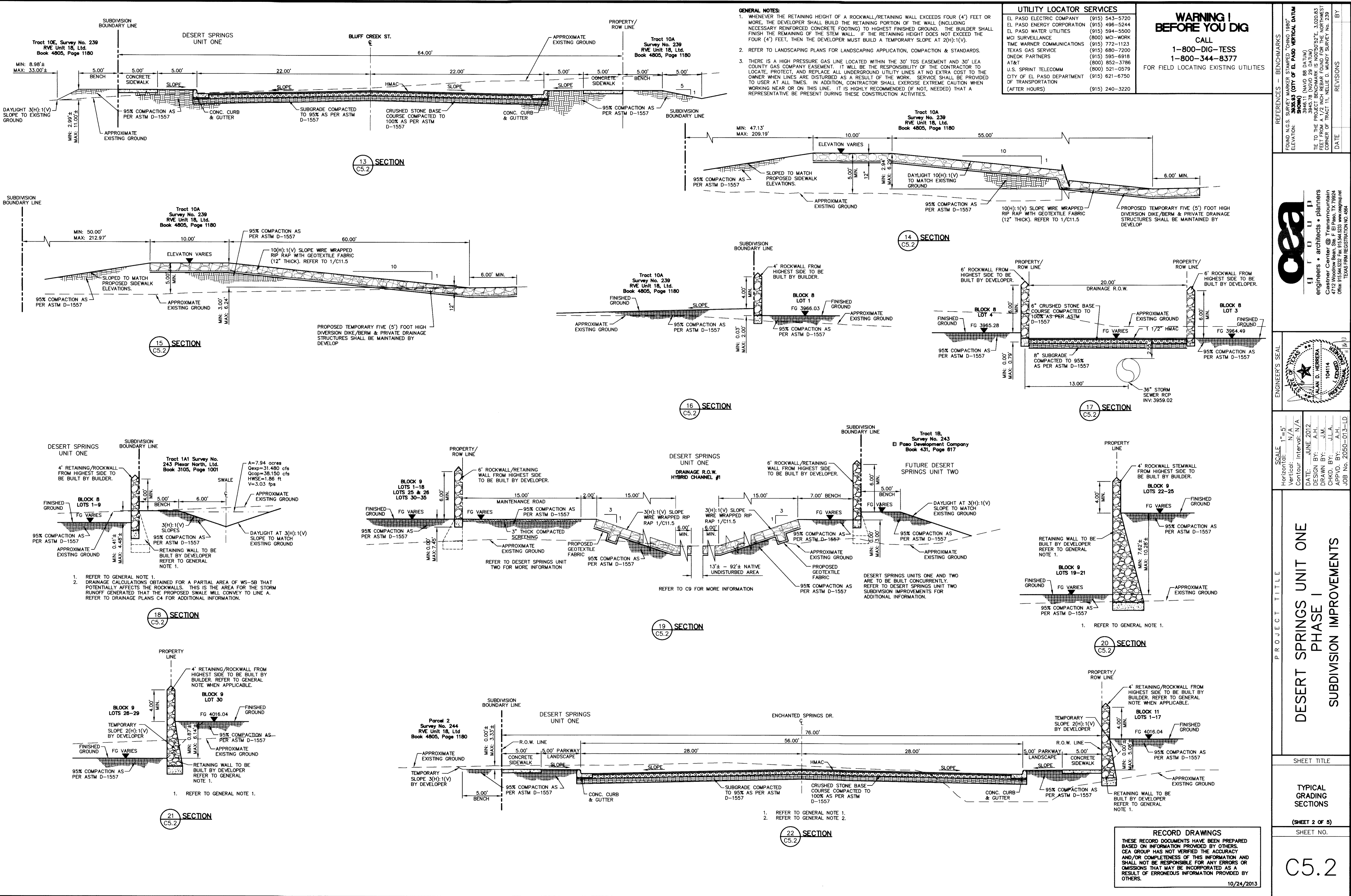


SCALE
 Horizontal: 1"=5'
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.H.
 APPVD. BY: A.H.
 JOB No. 2050-013-LD

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 TYPICAL GRADING SECTIONS
 (SHEET 1 OF 5)
 SHEET NO.

C5.1R



GENERAL NOTES:

- 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 2(H):1(V).
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UTILITY LOCATOR SERVICES

| | |
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| | (915) 240-3220 |

WARNING!
BEFORE YOU DIG

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1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

FOUND N.G.S. SURVEY MARKER STAMPED "COUNCIL 1880" ELEVATION: 3025.63 (CITY OF EL PASO VERTICAL DATUM SHOWN) (NAD 83 DATUM) 3845.78 (NAD 83 DATUM) 3845.78

TIE TO THE PROJECT BENCHMARK IS 100'50.92', 3020.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, BELLE D. MONDY SURVEY NO. 239

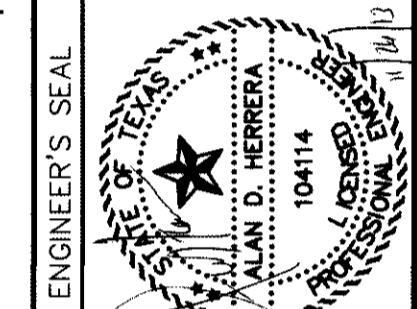
DATE: _____

REVISIONS: _____

CEA

engineers • architects • planners

Castner Center @ Triemountain
104114
Office: 915.544.5232 Fax: 915.544.5233 www.ceagroup.net TEXAS FIRM REGISTRATION NO. 4864



SCALE

Horizontal: 1"=5'
Vertical: 1/4"=5'
Contour Interval: N/A

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.L.A.
CHKD. BY: A.H.
APP'D. BY: A.H.
JOB No. 2050-013-LD

PROJECT TITLE

**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

TYPICAL GRADING SECTIONS

(SHEET 2 OF 5)

SHEET NO.

RECORD DRAWINGS

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10/24/2013

C5.2

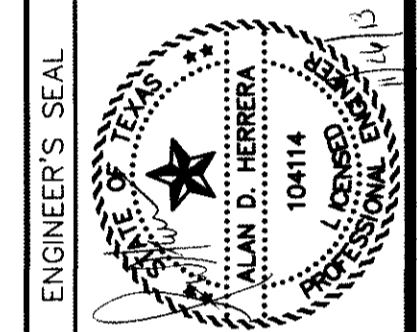
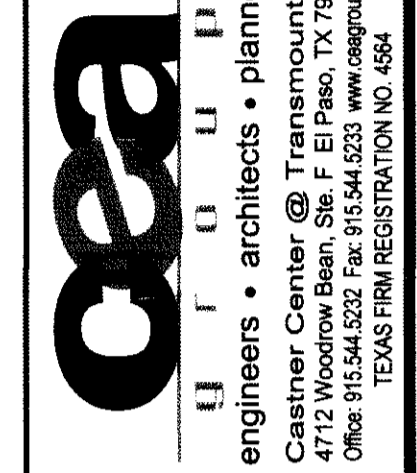
RECORD DRAWINGS
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 10/24/2013

- GENERAL NOTES:**
- 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 2(H):1(V).
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|--|----------------|
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| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 240-3220 |

WARNING I BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

| DATE | REVISIONS | BY |
|----------|-----------|-----|
| 10/24/13 | A | ASH |

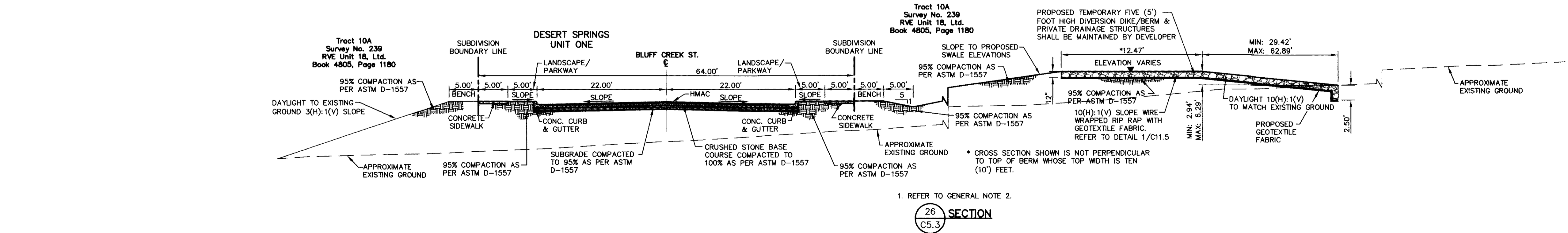
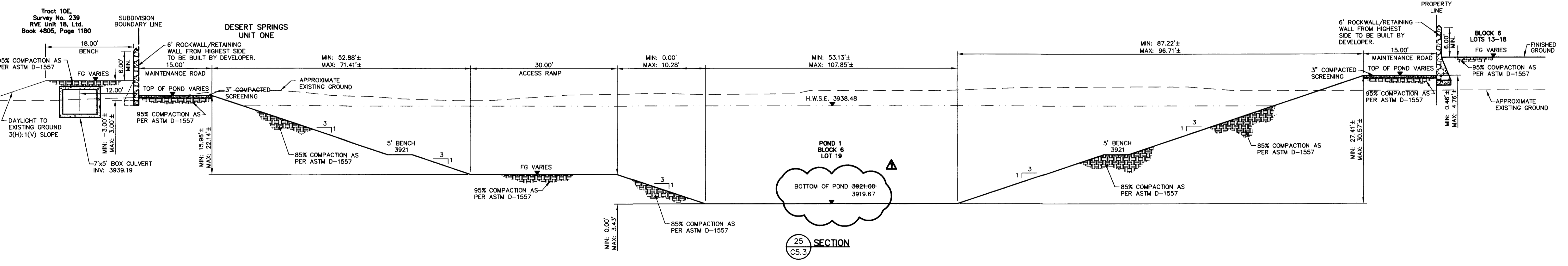
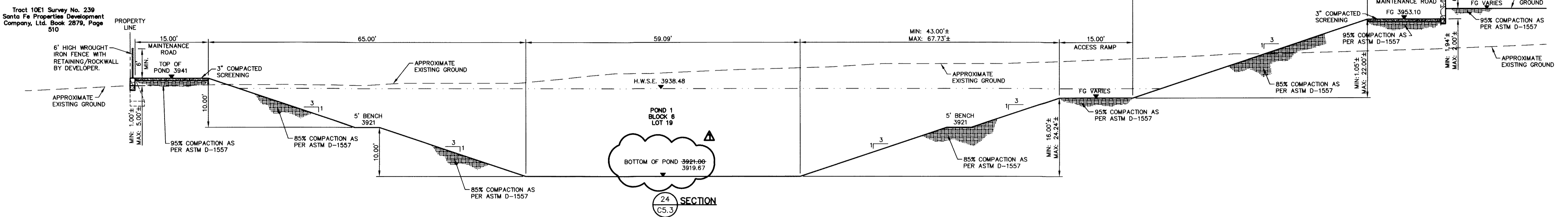
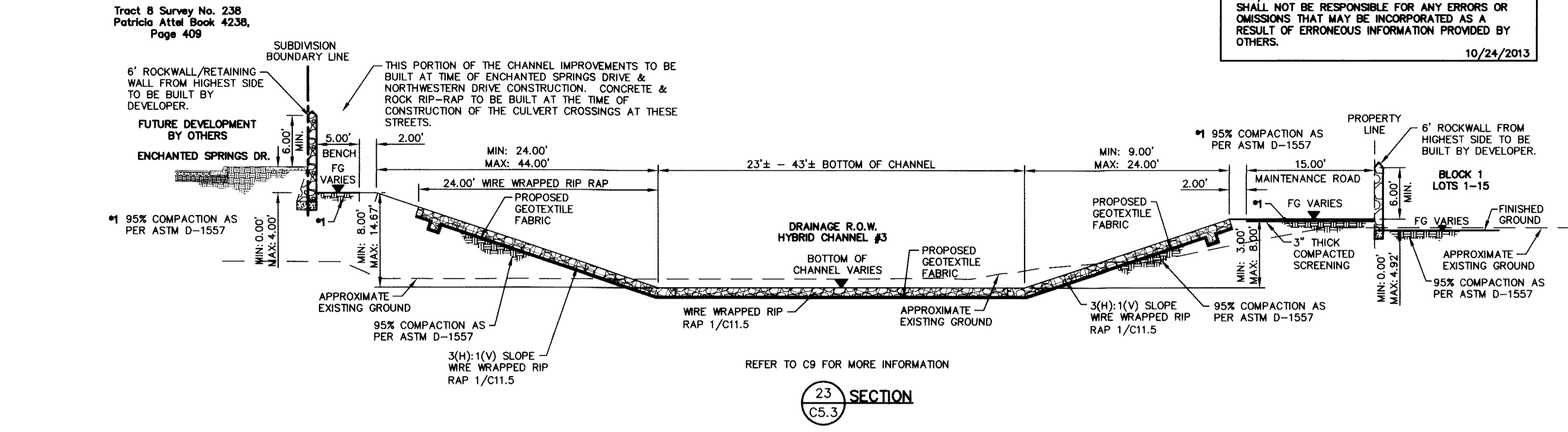


| SCALE | PROJECT TITLE |
|--|--|
| Horizontal: 1"=10' Vertical: N/A Contour Interval: N/A | DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS |

**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

TYPICAL GRADING SECTIONS
 (SHEET 3 OF 5)
 SHEET NO.

C5.3



RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013

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 2(H):1(V).
 2. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.
 3. THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN THE 30' TGS EASEMENT AND 30' LEA COUNTY GAS COMPANY EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT, NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.

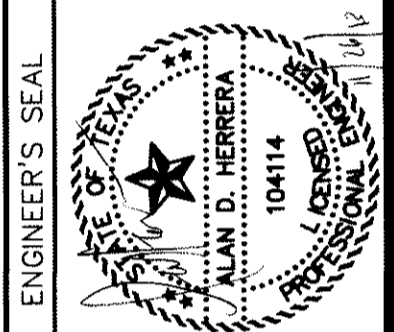
UTILITY LOCATOR SERVICES

| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 584-5500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING I BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3925.93 (CITY OF EL PASO VERTICAL DATUM)
 3949.71 (NAVD 85 DATUM)
 3945.78 (NOVD 29 DATUM)
 TIE TO THE PROJECT BENCHMARK IS NOD95052E, 3.020283
 CORNER OF TRACT 11, BELLE D. MANDY SURVEY, NO. 239
 DATE: _____ REVISIONS: _____ BY: _____

CEA
 engineers • architects • planners
 CEA Group, Inc. • 7711 Mountain
 4712 Woodrow Wilson Blvd. • El Paso, TX 79904
 Office: 915.544.5232 Fax: 915.544.5233 www.cea.com
 TEXAS FIRM REGISTRATION NO. 484

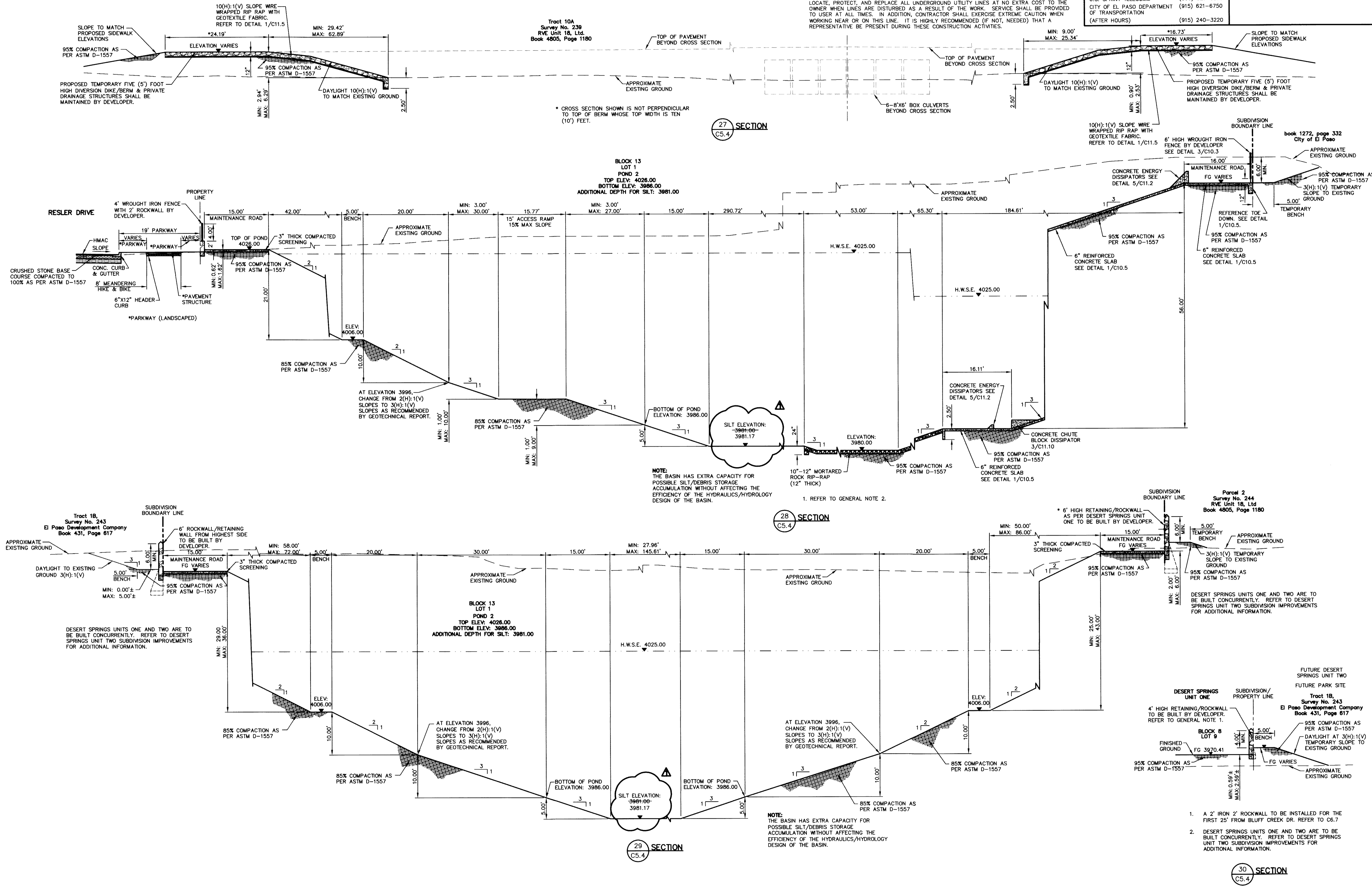


SCALE
 Horizontal: 1"=10'
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHECKED BY: J.L.A.
 APPROVED BY: A.H.
 JOB NO. 2050-013-1D

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 TYPICAL GRADING SECTIONS
 (SHEET 4 OF 5)
 SHEET NO.

C5.4



27 SECTION
 C5.4

28 SECTION
 C5.4

29 SECTION
 C5.4

30 SECTION
 C5.4

NOTE:
 THE BASIN HAS EXTRA CAPACITY FOR POSSIBLE SILT/DEBRIS STORAGE ACCUMULATION WITHOUT AFFECTING THE EFFICIENCY OF THE HYDRAULICS/HYDROLOGY DESIGN OF THE BASIN.
 1. REFER TO GENERAL NOTE 2.

NOTE:
 THE BASIN HAS EXTRA CAPACITY FOR POSSIBLE SILT/DEBRIS STORAGE ACCUMULATION WITHOUT AFFECTING THE EFFICIENCY OF THE HYDRAULICS/HYDROLOGY DESIGN OF THE BASIN.

- A 2' IRON 2" ROCKWALL TO BE INSTALLED FOR THE FIRST 25' FROM BLUFF CREEK DR. REFER TO C6.7
- DESERT SPRINGS UNITS ONE AND TWO ARE TO BE BUILT CONCURRENTLY. REFER TO DESERT SPRINGS UNIT TWO SUBDIVISION IMPROVEMENTS FOR ADDITIONAL INFORMATION.

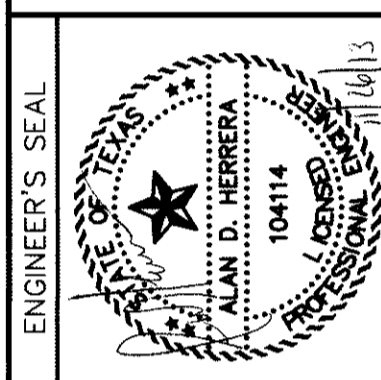
RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013

| 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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

| DATE | REVISIONS | BY |
|------|-----------|----|
| | | |

REFERENCES - BENCHMARKS
 FOUND IN SURVEY REPORTS:
 3946.11 (NAVD 88 DATUM)
 3946.11 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 REFERENCE TO THE PROJECT BENCHMARK IS 100250527E. 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239



SCALE: 1"=10'
 Horizontal: N/A
 Vertical: N/A
 Contour interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHECKED BY: J.L.A.
 APP'D BY: A.H.
 JOB No. 2050-013-LD

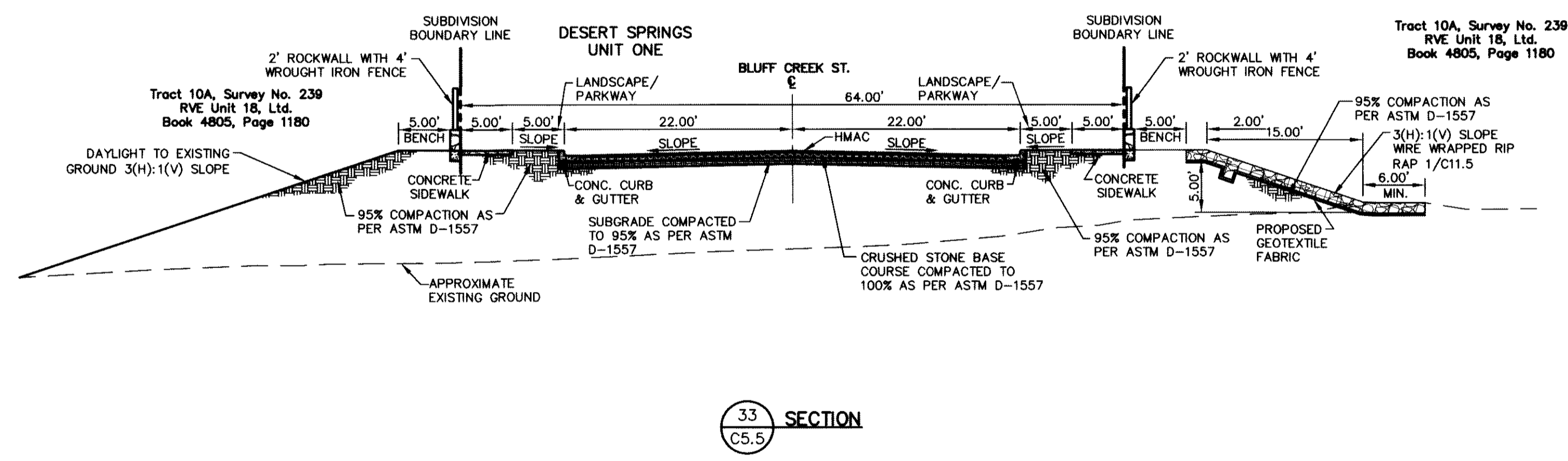
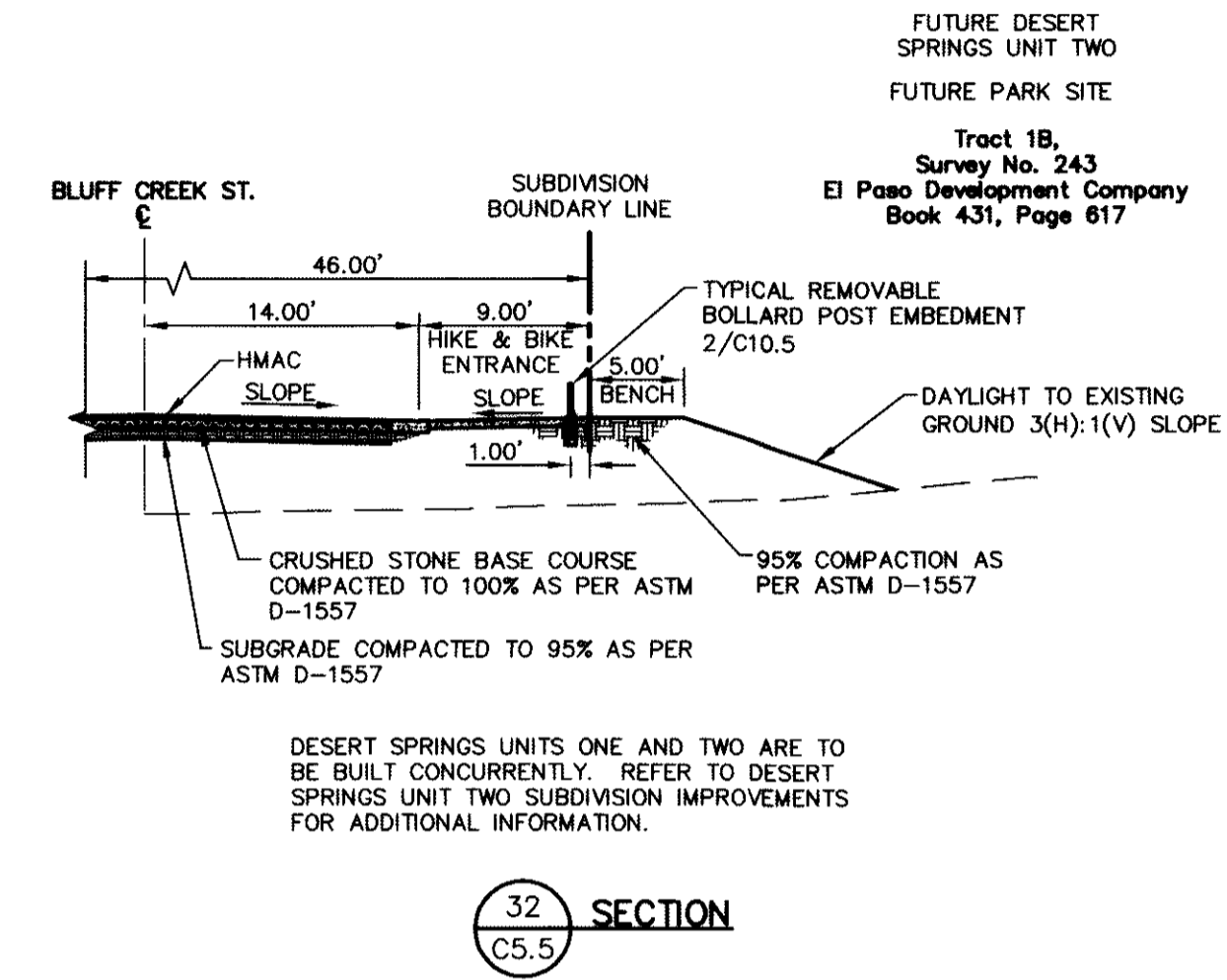
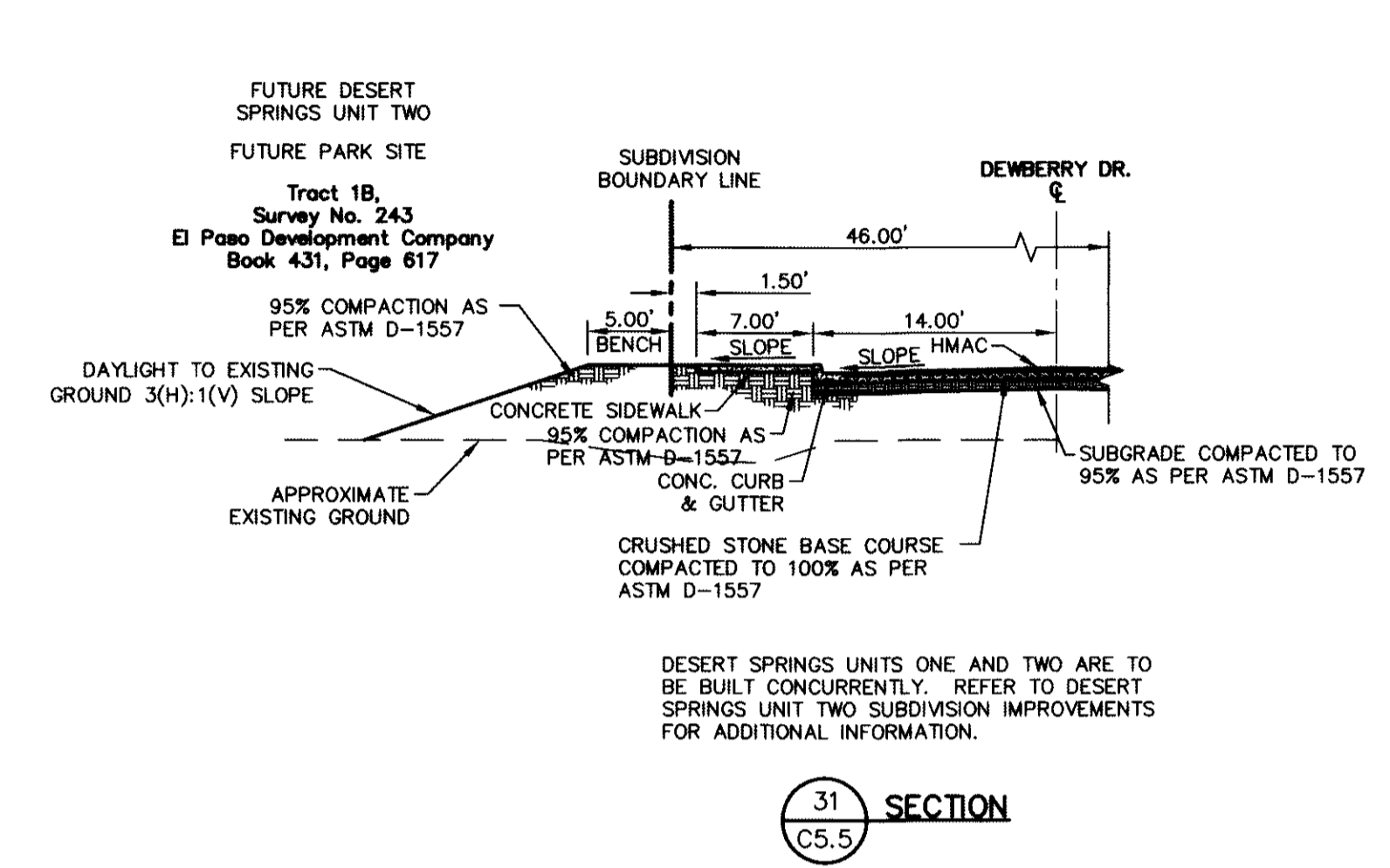
PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

TYPICAL GRADING SECTIONS
 (SHEET 5 OF 5)

SHEET NO.

C5.5



GENERAL NOTES:
1. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.

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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3796 |
| U.S. SPRINT TELECOMM | (800) 521-0519 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING!
BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

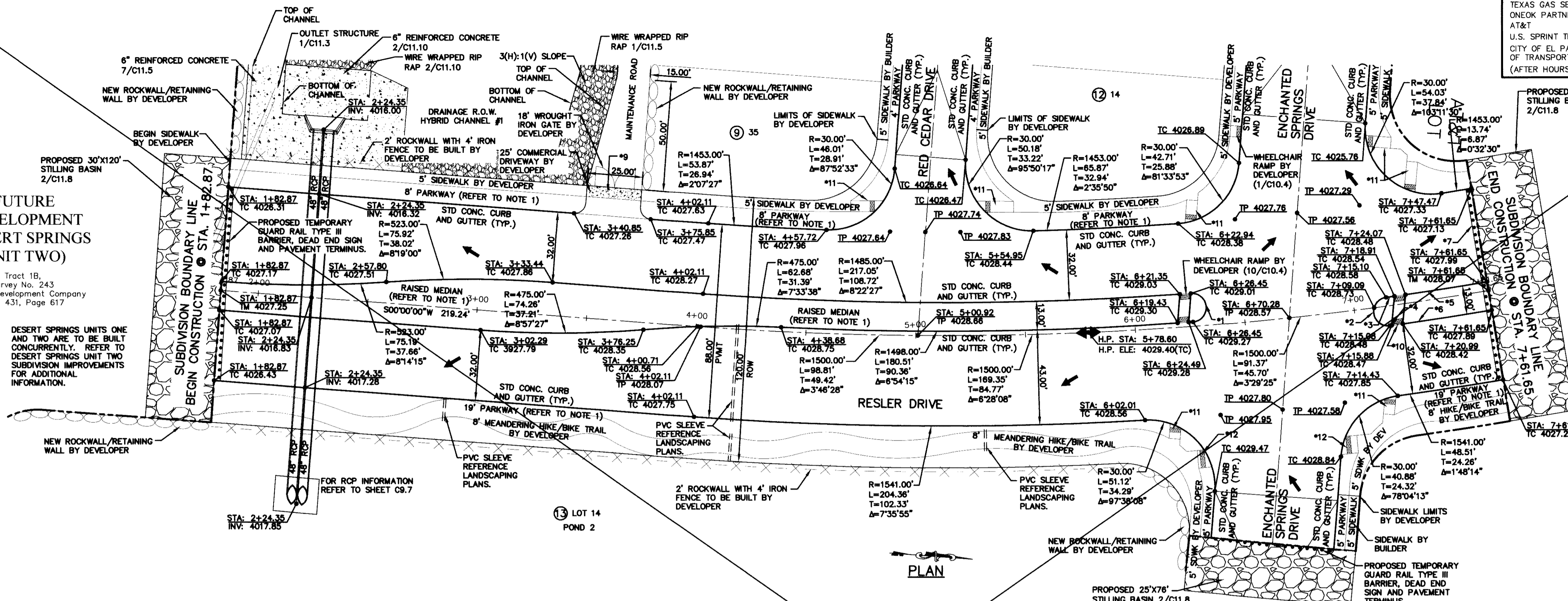
RECORD DRAWINGS
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
10/24/2013
REFERENCE SUBDIVISION PHASE II

REFERENCES - BENCHMARKS
FOUND N.G.S. SURVEY MARKER "CHINO 1980"
ELEVATION: 3946.11 (NAVD 88 DATUM)
3945.78 (NGVD 29 DATUM)
FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239
DATE: _____ BY: _____

- *1 R=6.50'
L=20.42'
T=INFINITE
Δ=180°00'00"
- *2 R=6.50'
L=20.42'
T=INFINITE
Δ=179°59'59"
- *3 R=1496.00'
L=3.80'
T=1.90'
Δ=0°08'44"
- *4 R=1509.00'
L=0.81'
T=0.41'
Δ=0°01'51"
- *5 R=1496.00'
L=37.49'
T=18.74'
Δ=126°08'
- *6 R=1509.00'
L=40.91'
T=23.46'
Δ=133°12'
- *7 PROPOSED TEMPORARY GUARD RAIL TYPE III BARRIER, DEAD END SIGN AND PAVEMENT TERMINUS.
- *8 END SIDEWALK BY DEVELOPER BEGIN SIDEWALK BY BUILDER
- *9 COMMERCIAL DRIVEWAY BY DEVELOPER
- *10 WHEELCHAIR RAMP BY DEVELOPER (10/C10.4)
- *11 WHEELCHAIR RAMP BY DEVELOPER (8/C10.4)
- *12 WHEELCHAIR RAMP BY DEVELOPER (11/C10.4)

FUTURE DEVELOPMENT (DESERT SPRINGS UNIT TWO)

Tract 1B,
Survey No. 243
El Paso Development Company
Book 431, Page 617

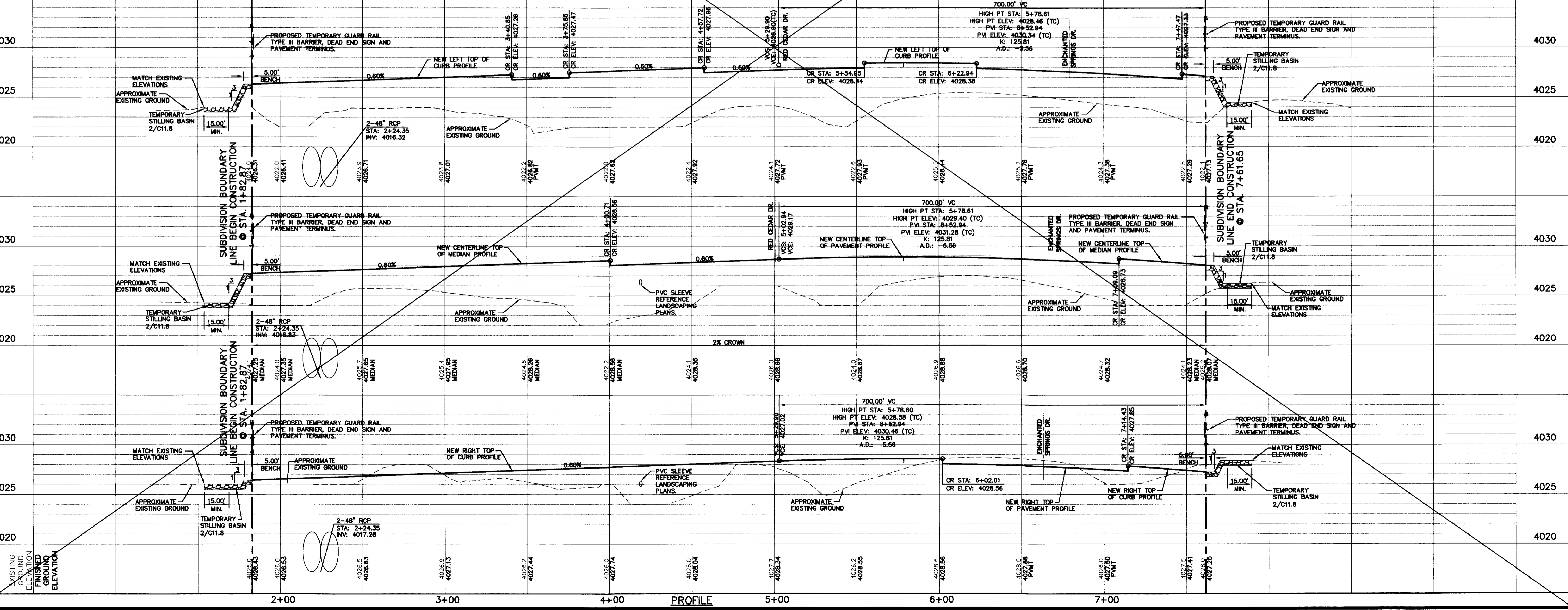


FUTURE DEVELOPMENT (DESERT SPRINGS UNIT FOUR)

LEGEND:

- WHEELCHAIR RAMP BY DEVELOPER
- NEW ROCKWALL/RETAINING WALL BY DEVELOPER
- 2' ROCKWALL WITH 4" IRON FENCE TO BE BUILT BY DEVELOPER

cega
engineers • architects • planners
Caster Center @ Transmountain
4712 Woodrow Bean, Ste. F El Paso, TX 79924
Office: 915.544.5232 Fax: 915.544.5233 www.cega.net
TEXAS PROFESSIONAL REGISTRATION NO. 0666



SCALE: 1"=30'
Vertical: 1"=5'
Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.L.A.
CHKD. BY: J.L.A.
APPROV. BY: _____
JOB No. 2050-013-1D

**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

RESLER DR.
PLAN & PROFILE
FROM STA. 1+82.87
TO STA. 7+61.65

SHEET NO.

C6.1

RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013

GENERAL NOTES:
 1. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.
 2. AS PER DESIGN GUIDELINES, A CREST VERTICAL CURVE WITH A K VALUE OF SIXTY (60) IS FOR A DESIGN SPEED OF 35 MPH.

DESIGN SPEED
 35 MPH

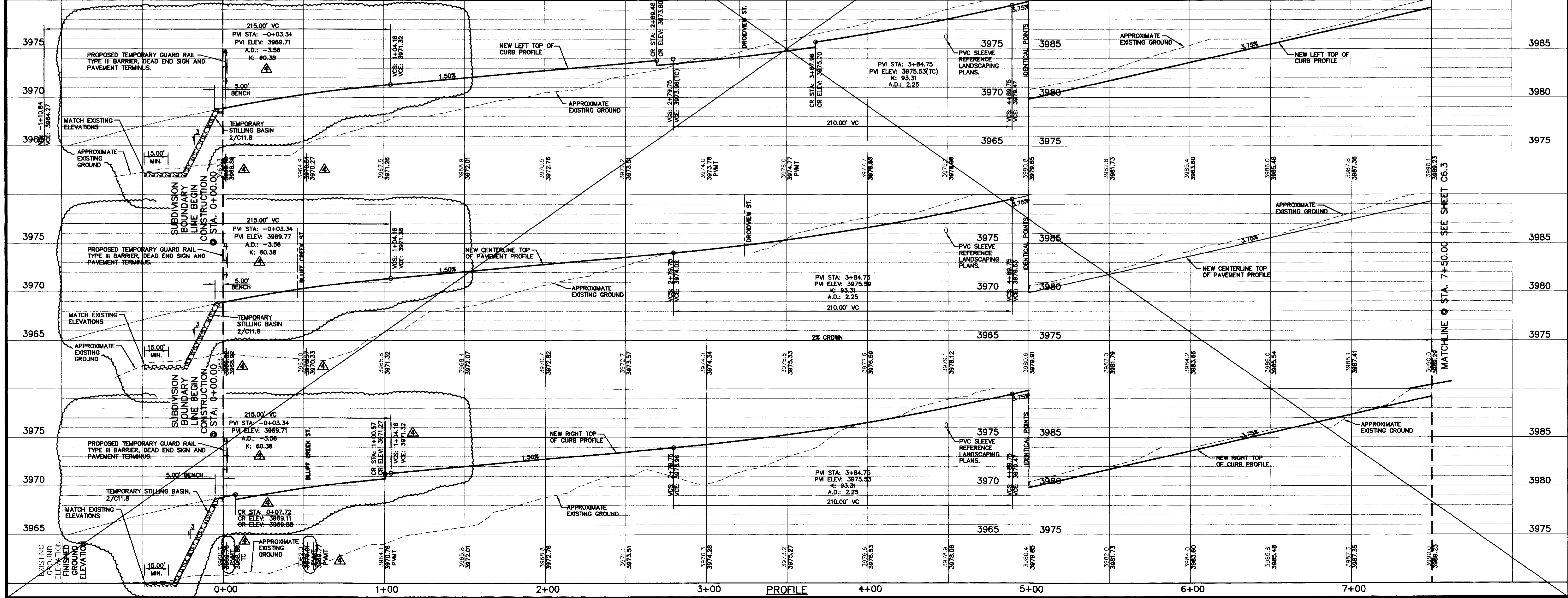
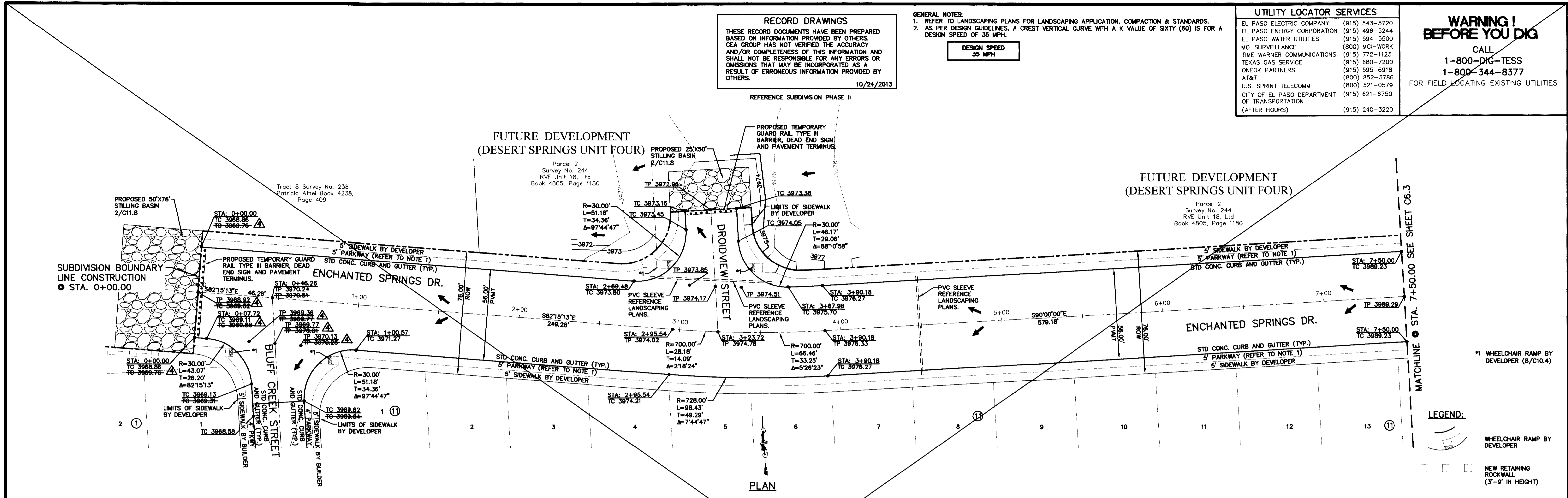
UTILITY LOCATOR SERVICES

| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| MCI SURVEILLANCE | (800) MO-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 3826.83 (CITY OF EL PASO VERTICAL DATUM SHOWING)
 (NAD 83 DATUM)
 3945.78 (NAD 83 DATUM)
 TIE TO THE PROJECT BENCHMARK IS NAD 83 3,020.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, RELIEU D. MUNDY SURVEY NO. 239
 DATE: _____ REVISIONS: _____ BY: _____

CEA
 engineers • architects • planners
 CEA Group, Inc.
 10414
 CHKD. BY: J.M.A.
 APP'D. BY: A.H.
 JOB No. 2050-013-LD



PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 ENCHANTED SPRINGS DR.
 PLAN & PROFILE
 FROM STA. 0+00.00
 TO STA. 7+50.00

SHEET NO.
 C6.2R

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

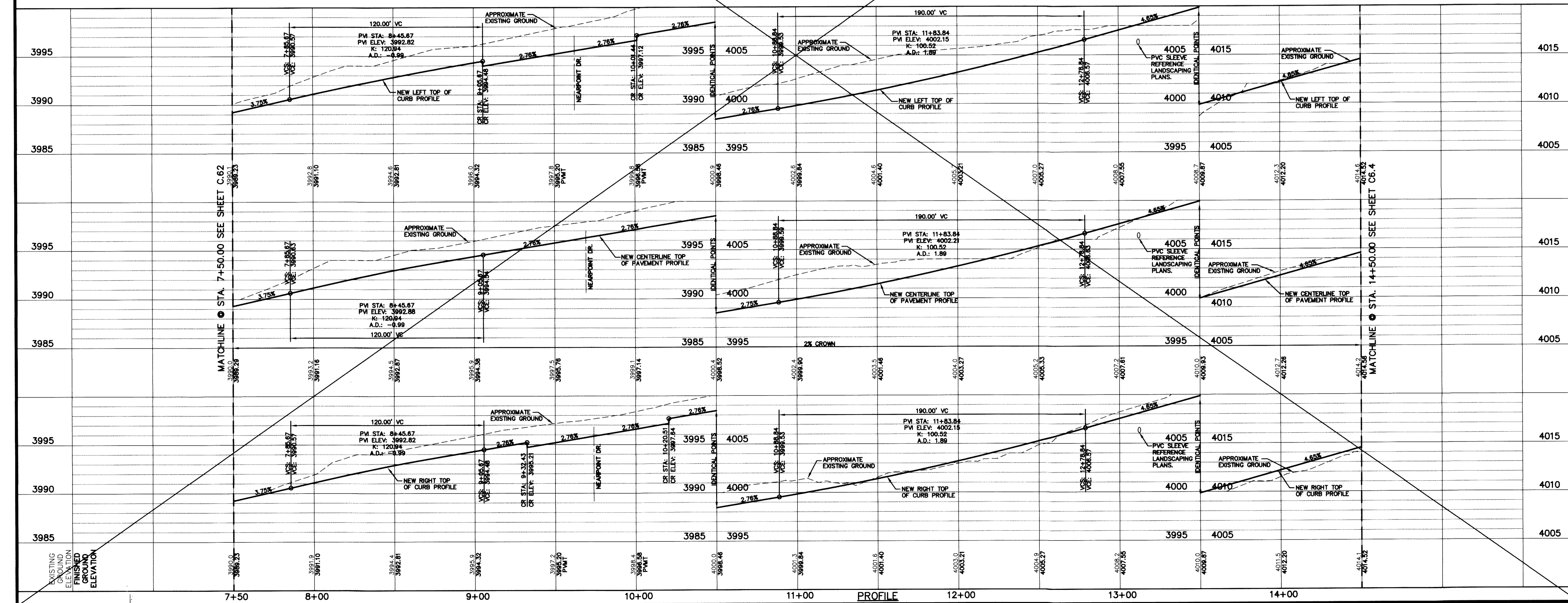
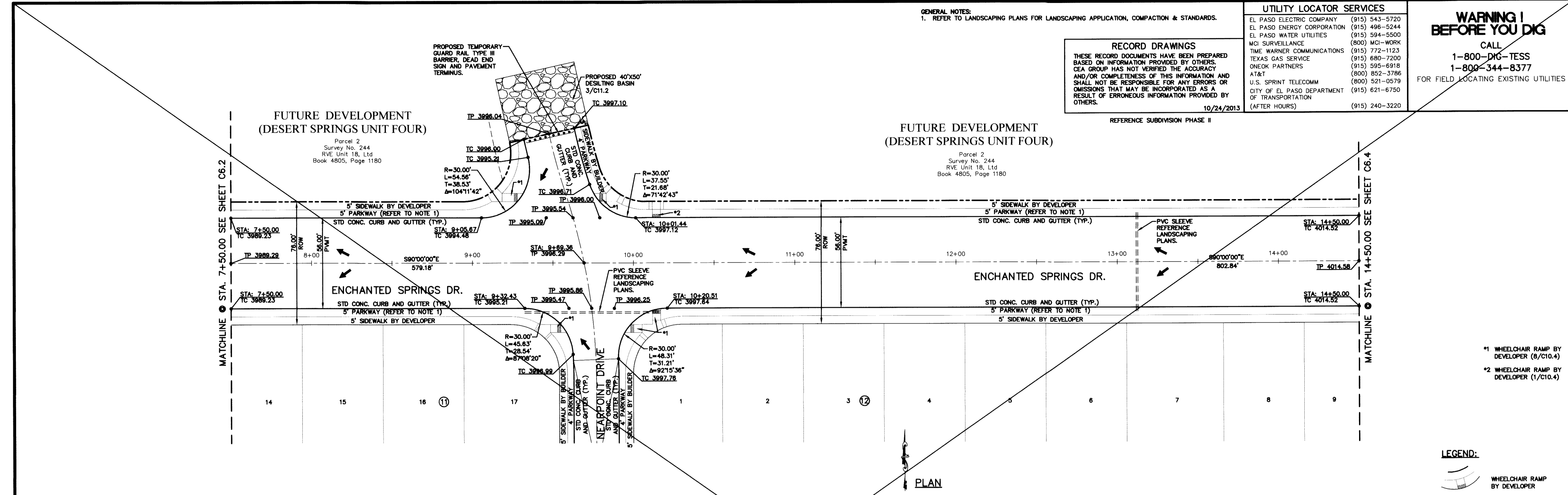
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.A.
CHKD. BY: J.M.A.
APP'D. BY: A.H.
 JOB No. 2050-013-LD

GENERAL NOTES:
1. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.

| UTILITY LOCATOR SERVICES | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 534-5500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING I BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

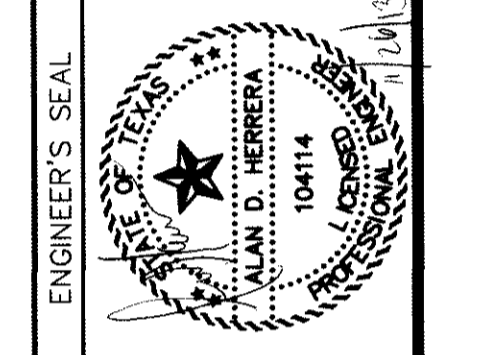
RECORD DRAWINGS
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10/24/2013
REFERENCE SUBDIVISION PHASE II



REFERENCES - BENCHMARKS

| | |
|--|---|
| FOUND N.G.S. SURVEY MARKER STAMPED "CHNO 1880" | ELEVATION: 3935.83 (CITY OF EL PASO VERTICAL DATUM) |
| (SHOW) (ASVD 88 DATUM) | 3945.78 (NOVD 29 DATUM) |
| TIE TO THE PROJECT BENCHMARK IS N0550522E, 3.020.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, WELLS CO. LAND SURVEY, PG. 253 | |
| DATE | REVISIONS |
| BY | |

CE&A
engineers • architects • planners
Customer Center @ The Firm
10414
Cedar Creek, TX 75004
Phone: 915.541.5232 Fax: 915.541.5233 www.ceandagroup.com
TEXAS FIRM REGISTRATION NO. 0684

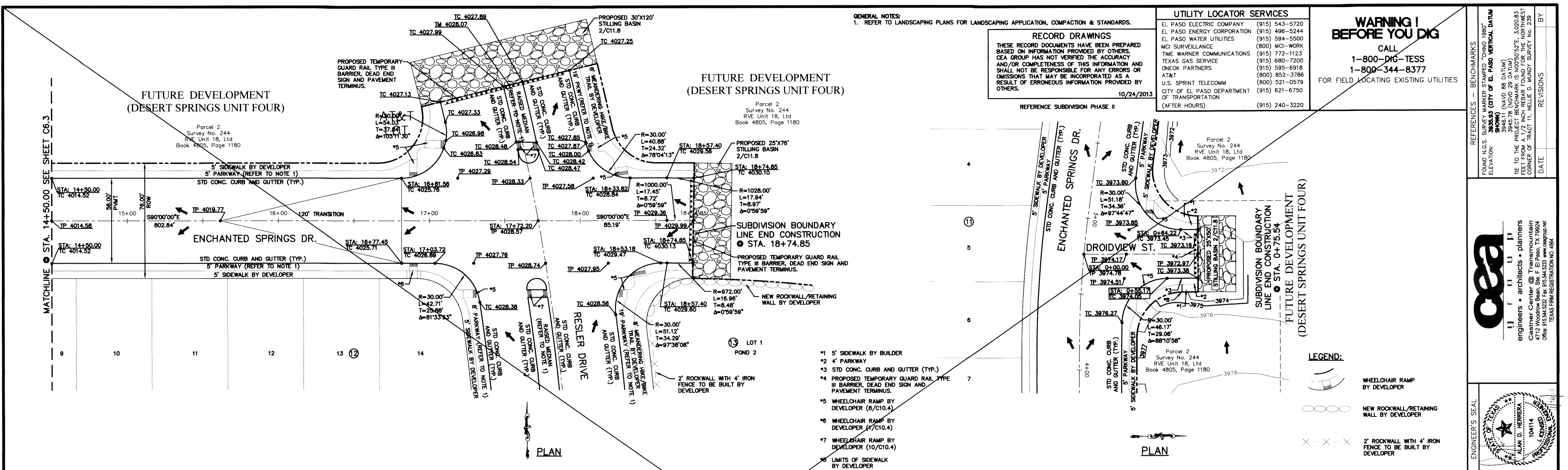


SCALE: Horizontal: 1"=30'
Vertical: 1"=5'
Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPROV. BY: A.H.
JOB NO. 2050-013-1D

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**ENCHANTED SPRINGS DR.
PLAN & PROFILE
FROM STA. 7+50.00
TO STA. 14+50.00**

SHEET NO.
C6.3



GENERAL NOTES:
 1. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.

RECORD DRAWINGS
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 10/24/2013

REFERENCE SUBDIVISION PHASE II

UTILITY LOCATOR SERVICES

| | |
|--|----------------|
| EL PASO ENERGY CORPORATION | (915) 543-5720 |
| EL PASO WATER UTILITIES | (915) 498-5244 |
| MCI SURVEILLANCE | (915) 594-5500 |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING I BEFORE YOU DIG

CALL
 1-800-DIG-TESS
 1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 3905.83 (CITY OF EL PASO VERTICAL DATUM)
 3945.71 (NAVD 88 DATUM)
 3945.78 (NAVD 29 DATUM)
 THE TO THE PROJECT BENCHMARK IS 4005.92 E., 3.02623 S. CORNER OF TRACT 11, NEELIE D. WINDY SURVEY NO. 239

DATE: _____ BY: _____

REVISIONS

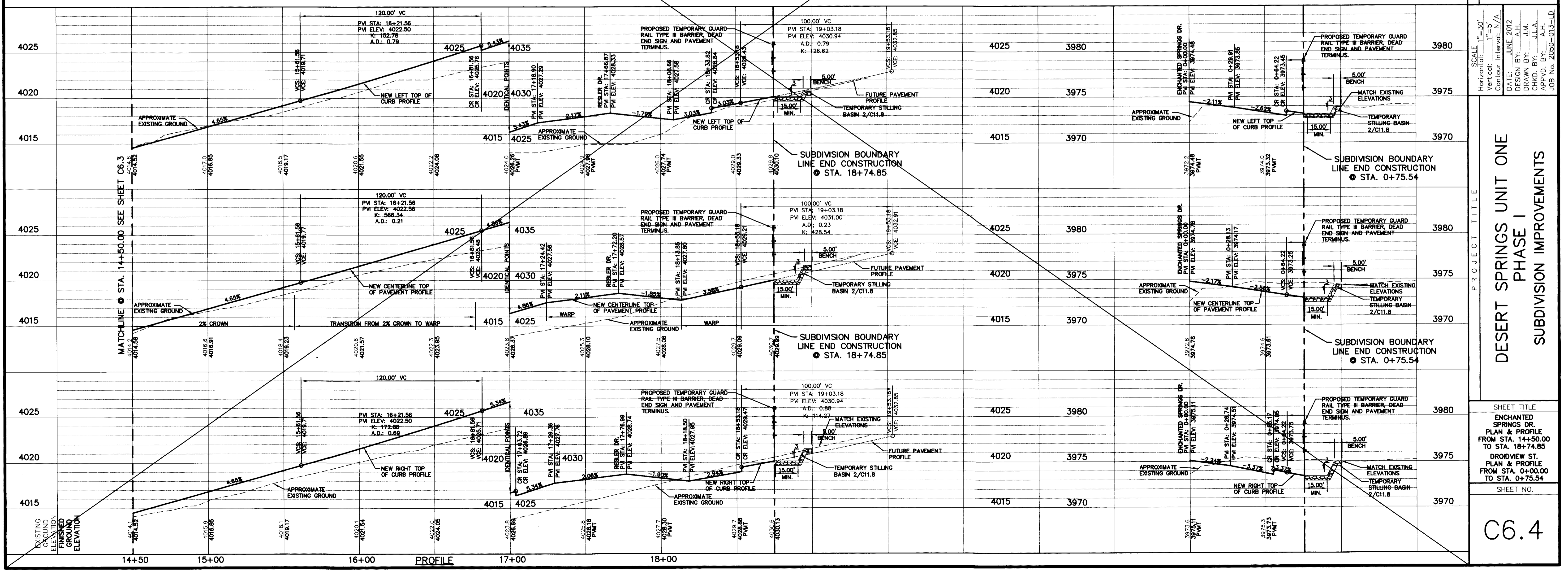
CEA GROUP

engineers • architects • planners

Contractor: Center @ Transmountain
 4712 Woodrow Bean, Ste. F El Paso, TX 79904
 Office: 915.544.5232 Fax: 915.544.5230 www.ceagroup.net
 TEXAS FIRM REGISTRATION NO. 4864

ALAN D. HERRERA
 10414
 10/14

ENGINEER'S SEAL



SCALE: 1"=30'

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

DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHECKED BY: J.L.A.
 APPROVED BY: A.H.

DATE: JUNE 2012

JOB NO. 2050-013-1D

PROJECT TITLE

**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

ENCHANTED SPRINGS DR.
 PLAN & PROFILE
 FROM STA. 14+50.00
 TO STA. 18+74.85

DROIDVIEW ST.
 PLAN & PROFILE
 FROM STA. 0+00.00
 TO STA. 0+75.54

SHEET NO.

C6.4

Tract 10A, Survey No. 239
RVE Unit 18, Ltd.
Book 4805, Page 1180

**FUTURE DEVELOPMENT
(DESERT SPRINGS UNIT THREE)**

**FUTURE DEVELOPMENT
(DESERT SPRINGS UNIT THREE)**

Tract 10A, Survey No. 239
RVE Unit 18, Ltd.
Book 4805, Page 1180

PLAN

GENERAL NOTES:
1. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.

RECORD DRAWINGS
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10/24/2013

UTILITY LOCATOR SERVICES

| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| WCI SURVEILLANCE | (800) WCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING!
BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

- *1 END TRANSITION FROM 44" PAVEMENT TO 32" PAVEMENT
- *2 20' COMMERCIAL DRIVEWAY BY DEVELOPER
- *3 18" WROUGHT IRON GATE BY DEVELOPER
- *4 STA. 15+57.54
TC 3964.30
- *5 R=179.00'
L=7.27'
T=3.64'
Δ=219°38'

REFERENCES - BENCHMARKS

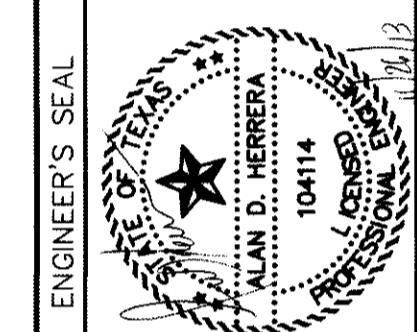
FOUND N.G.S. SURVEY MARKER STATION "CHINO 1987"
ELEVATION: 3955.83 (CITY OF EL PASO VERTICAL DATUM SHOWN)
(NAD 83 DATUM)
3946.78 (NAD 83 DATUM)
TIE TO THE PROJECT BENCHMARK IS NAD83/527E, 3,020.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. WINDY SURVEY No. 239

DATE: 10/24/13
BY: [Signature]
REVISIONS: [Table]
ELEVATION CORRECTION: [Table]

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10414
CHINA, TEXAS 75152
WWW.CEEA.COM



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

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPVD. BY: A.H.
JOB No. 2050-013-1-D

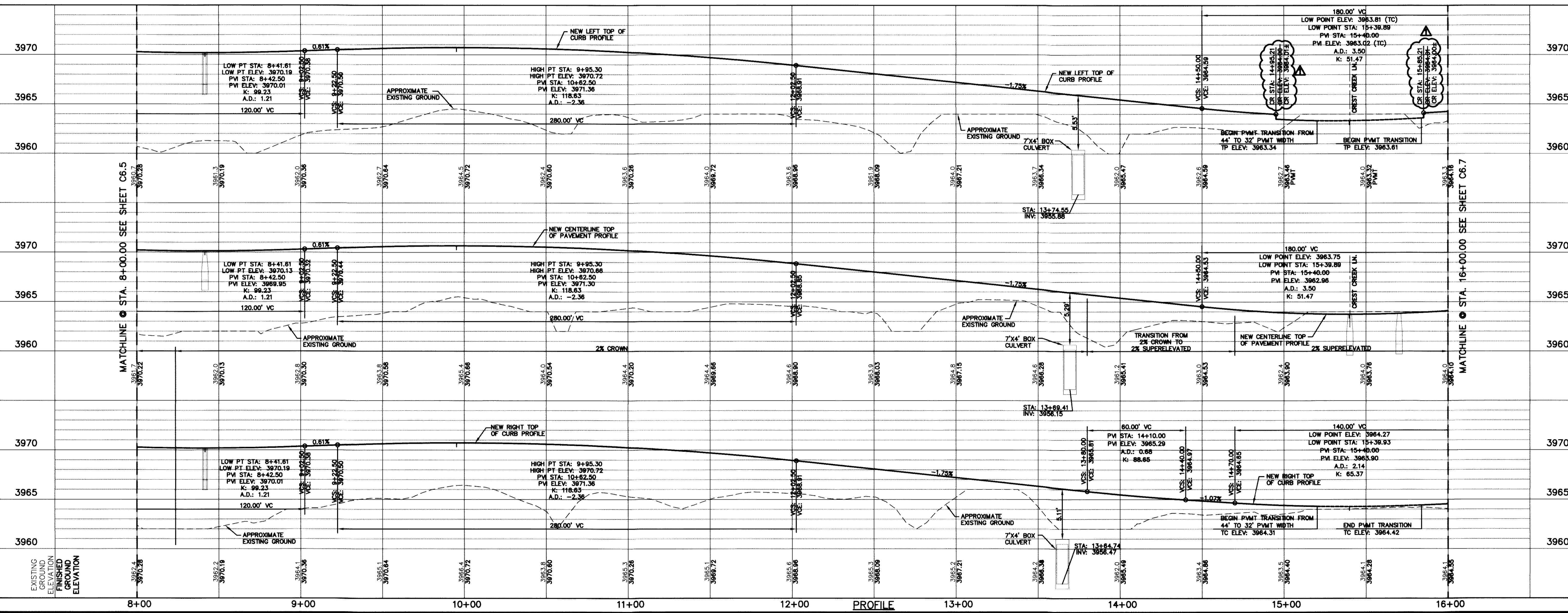
**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

BLUFF CREEK ST.
PLAN & PROFILE
FROM STA. 8+00.00
TO STA. 16+00.00

SHEET NO.

C6.6R



LEGEND:

WHEELCHAIR RAMP BY DEVELOPER

MATCHLINE @ STA. 16+00.00 SEE SHEET C6.7

MATCHLINE @ STA. 8+00.00 SEE SHEET C6.5

RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013

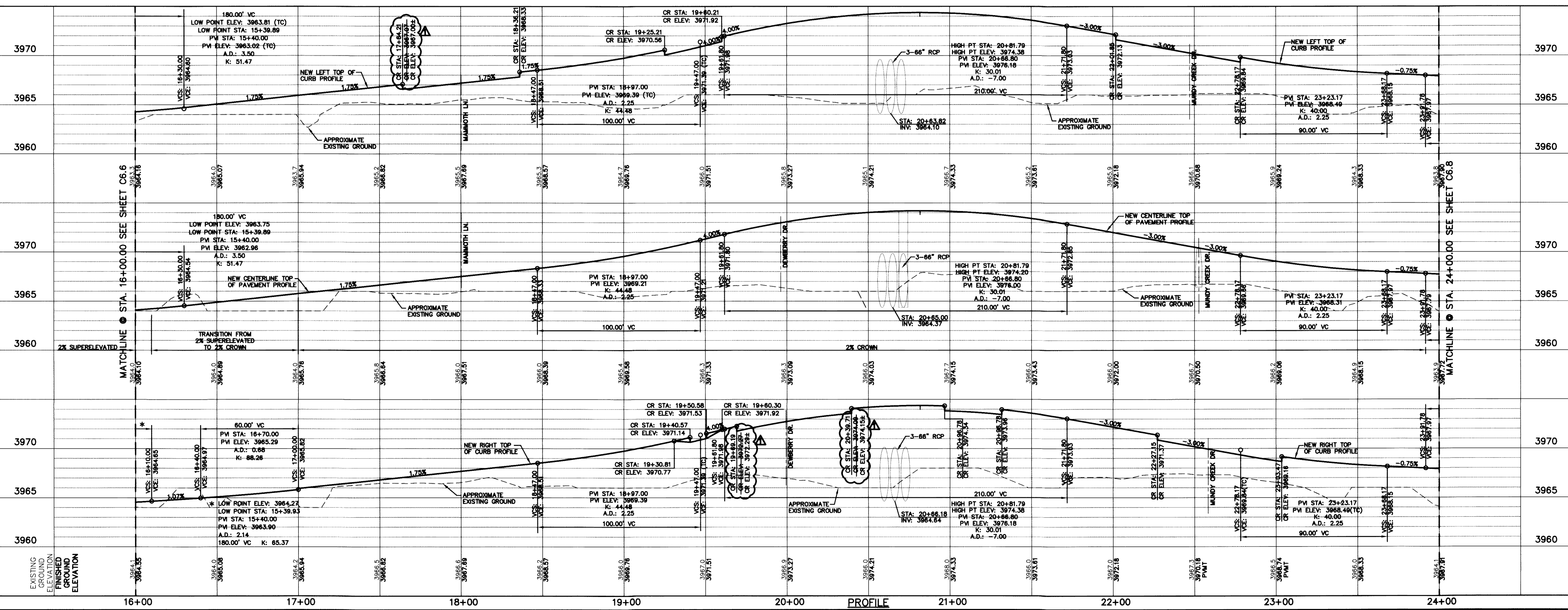
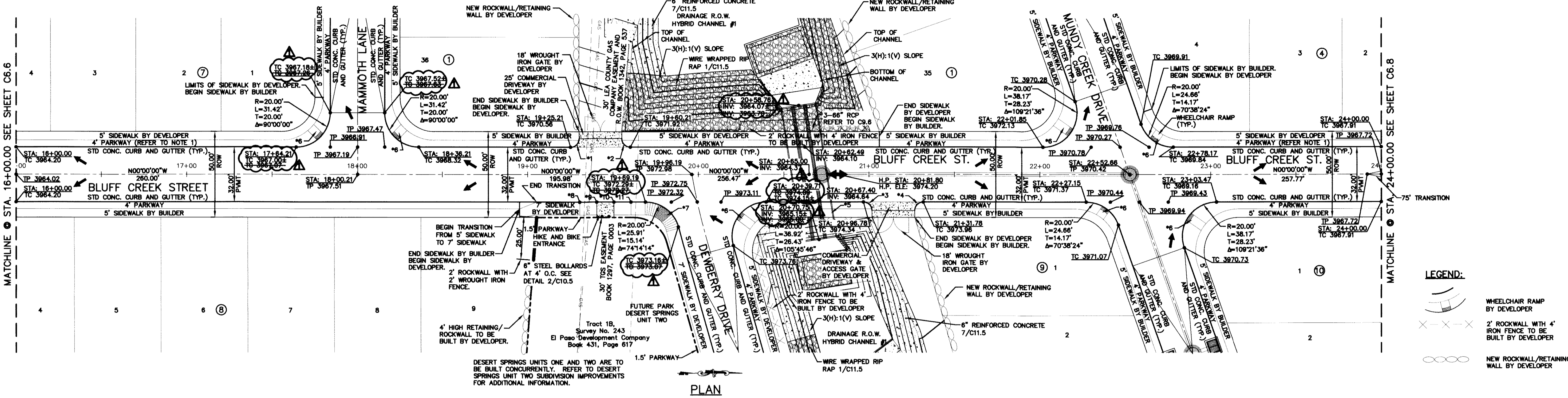
GENERAL NOTES:
 1. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.
 2. THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN THE 30' TGS EASEMENT AND 30' LEA COUNTY GAS COMPANY EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.

UTILITY LOCATOR SERVICES
 EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 496-5244
 EL PASO WATER UTILITIES (915) 594-5500
 NCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (915) 680-7200
 ONEOK PARTNERS (915) 595-6918
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (915) 621-0579
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750 (AFTER HOURS) (915) 240-3220

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
 FOUND N.A.S. SURVEY MARKER STAMPED "OHIO 1987" ELEVATION: 3925.83 (CITY OF EL PASO VERTICAL DATUM SHOWN) (NAD 83 DATUM) 3945.78 (NAD 83 DATUM)
 TIE TO THE PROJECT BENCHMARK IS NAD 83 592.57 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLE D. WINDY SURVEY NO. 239 DATE: REVISIONS: BY: DATE: ELEVATION CORRECTION: ADH

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 10414
 Office: 915.544.2232 Fax: 915.544.6233 www.ceainc.com
 TEXAS FIRM REGISTRATION NO. 4564



PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 BLUFF CREEK ST. PLAN & PROFILE FROM STA. 16+00.00 TO STA. 24+00.00

SHEET NO.
 C6.7

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

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: A.H.
 JOB No. 2050-013-LD

GENERAL NOTES:
1. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.

ELEVATION CORRECTION BY ADH

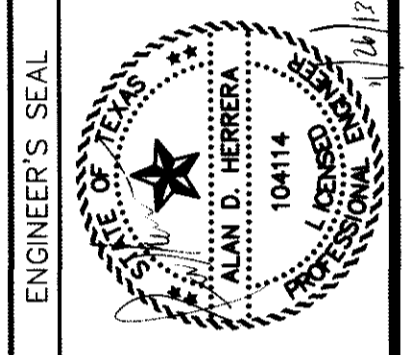
RECORD DRAWINGS
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
10/24/2013

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) 880-7200
ONEOK PARTNERS (915) 595-6918
AT&T (800) 852-3786
U.S. SPRINT TELECOM (800) 521-0871
CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750
(AFTER HOURS) (915) 240-3220

WARNING!
BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
FOUND U.S. SURVEY MARKERS "TANUS 1987" ELEVATION: 3925.83 (CITY OF EL PASO VERTICAL DATUM SHOWN)
SEE TO THE PROJECT BENCHMARK IS NAD83 5202.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, HELIE D. MUNDY SURVEY NO. 239 DATE OF TRACT 11, HELIE D. MUNDY SURVEY NO. 239
BY DATE REVISIONS BY

cega
engineers • architects • planners
Caster Center @ Transmountain
4712 Woodrow Bean, Ste. F El Paso, TX 79924
ONE TEXAS FIRM REGISTRATION NO. 0664

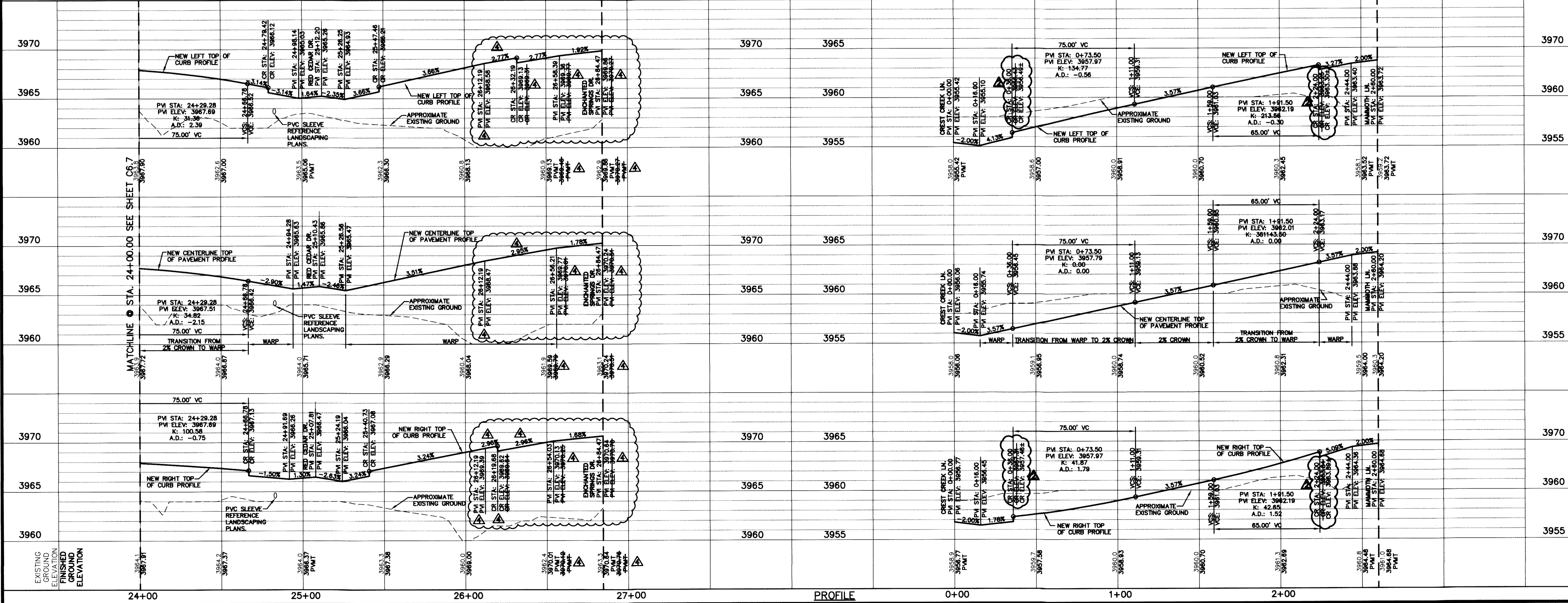
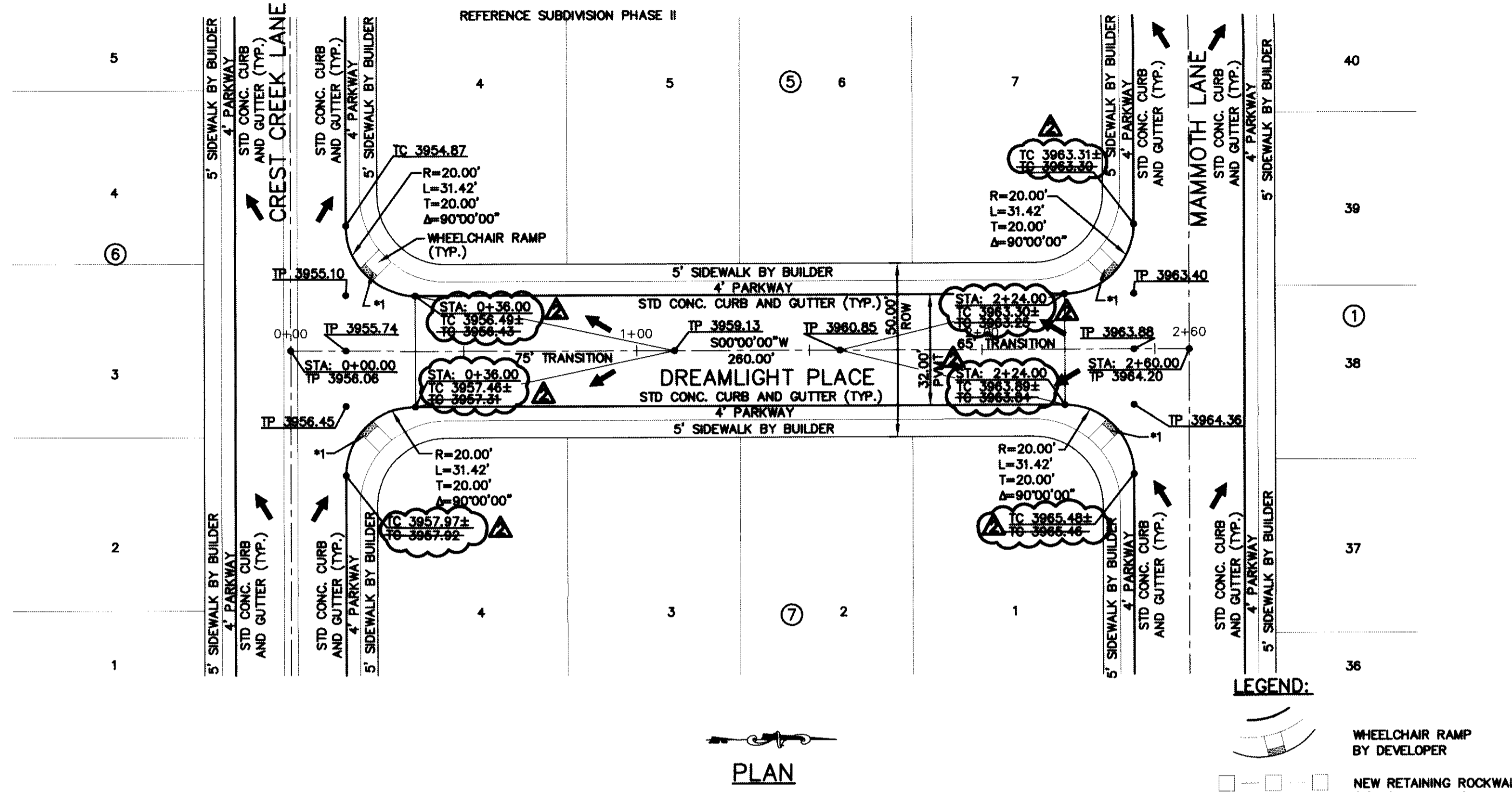
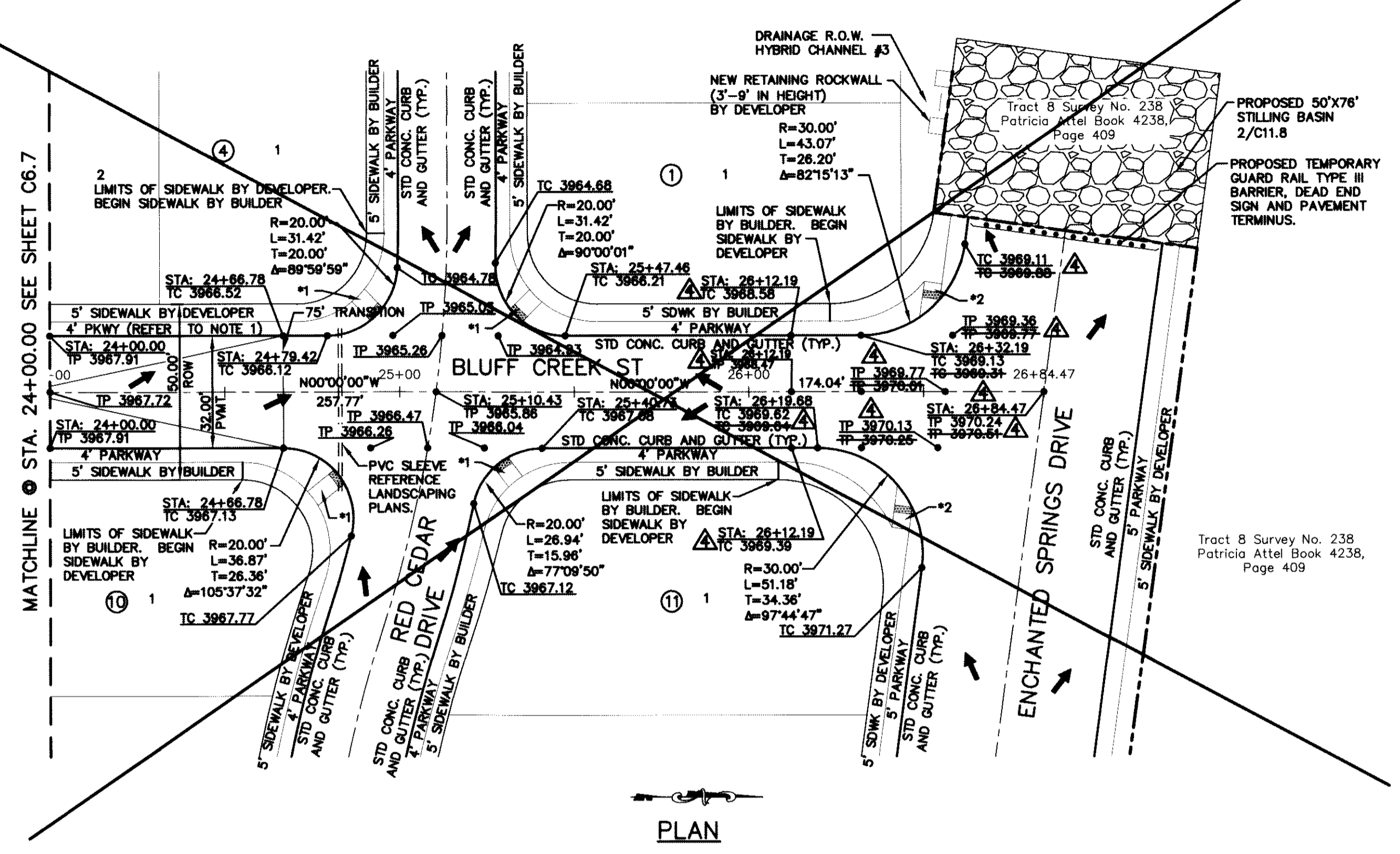


PROJECT TITLE
DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SCALE: 1"=30'
Vertical: 1"=5'
Horizontal: Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.H.A.
APPROV. BY: A.H.
JOB NO. 2050-013-1D

SHEET TITLE
BLUFF CREEK ST. PLAN & PROFILE FROM STA. 24+00.00 TO STA. 26+84.47
DREAMLIGHT PL. PLAN & PROFILE FROM STA. 0+00.00 TO STA. 2+60.00

SHEET NO.
C6.8



- *1 4" ROLLED CURB (TYP.)
- *2 20' COMMERCIAL DRIVEWAY BY DEVELOPER
- *3 BEGIN TRANSITION FROM 6" STD. CURB TO 4" ROLLED CURB
- *4 END TRANSITION
- *5 18" WROUGHT IRON GATE BY DEVELOPER
- *6 LIMITS OF SIDEWALK BY DEVELOPER
- *7 WHEELCHAIR RAMP BY DEVELOPER (S/C10.4)
- *8 SIDEWALK BY DEVELOPER

RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013
 REFERENCE SUBDIVISION PHASE II

UTILITY LOCATOR SERVICES

| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| NOI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

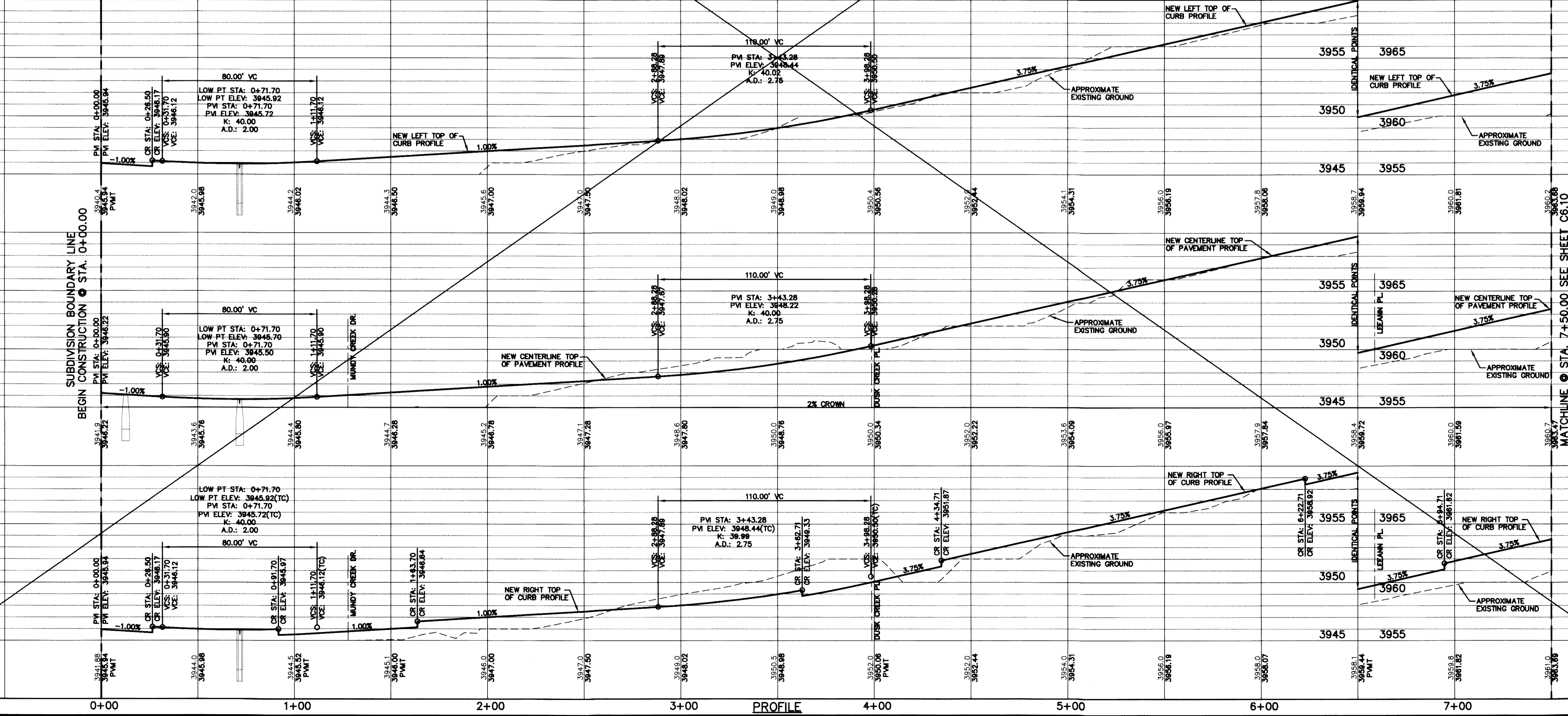
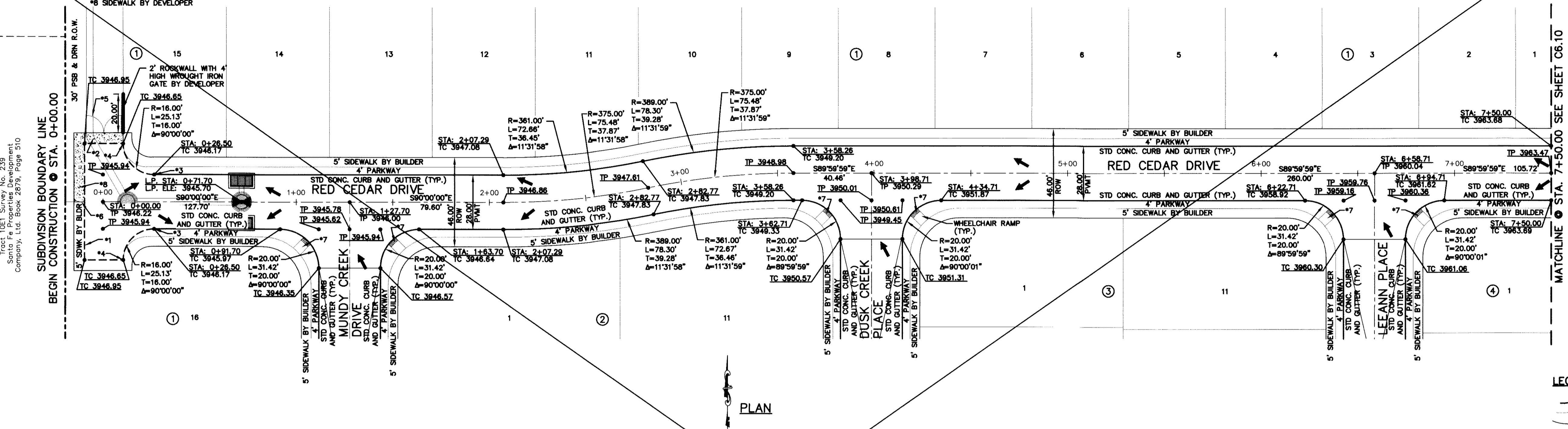
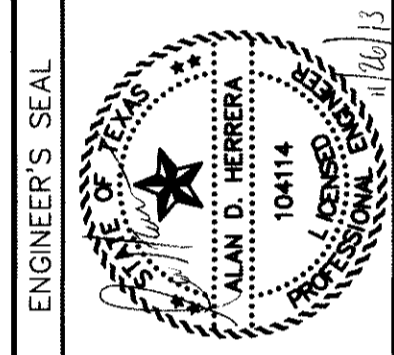
WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

FOUND N.A.S. SURVEY MARKER STAMPED "CHINO 1987"
 ELEVATION: 3945.93 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NAD 83 DATUM)
 TIE TO THE PROJECT BENCHMARK IS 100'50.92'. 3,020.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

DATE: _____ BY: _____
 REVISIONS: _____

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 TEXAS FIRM REGISTRATION NO. 4584



LEGEND:
 WHEELCHAIR RAMP BY DEVELOPER

SCALE:
 Horizontal: 1"=30'
 Vertical: 1"=5'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APP'D. BY: A.H.
 JOB No. 2050-013-LD

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 RED CEDAR DR. PLAN & PROFILE FROM STA. 0+00.00 TO STA. 7+50.00

SHEET NO.
 C6.9

Tract 1061, Survey No. 239
 Santa Fe Properties Development
 Company, Ltd. Book 2879, Page 510

GENERAL NOTES:
1. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.

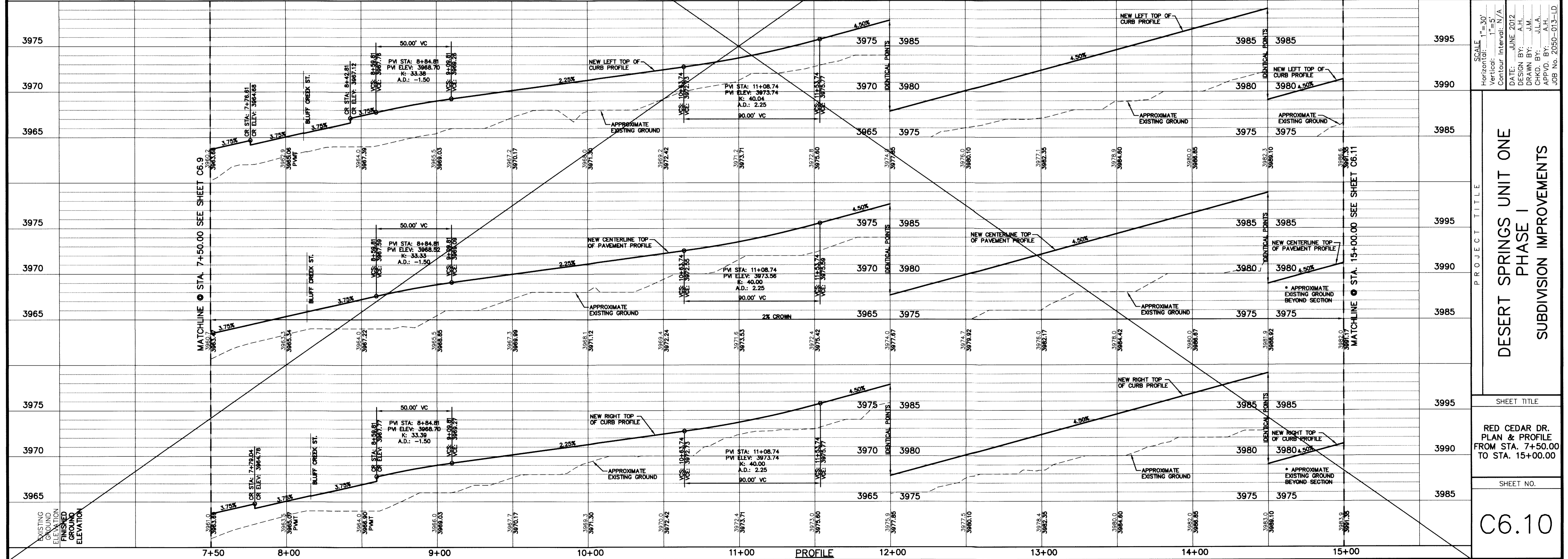
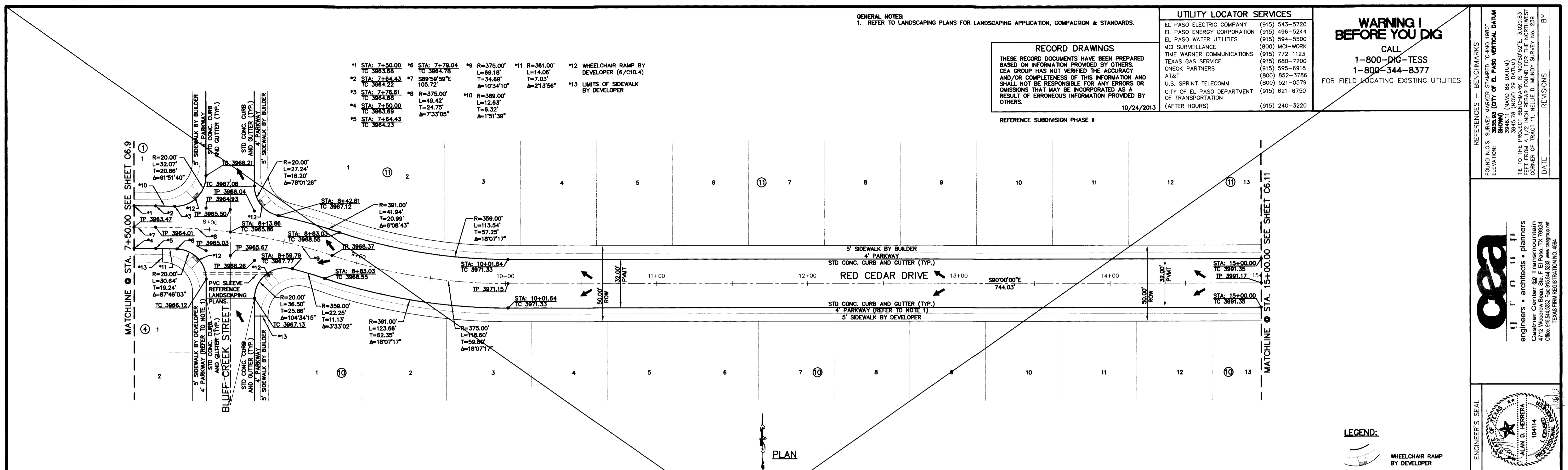
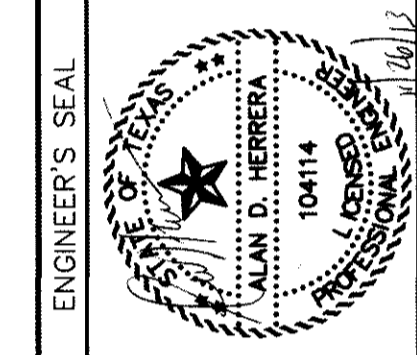
| UTILITY LOCATOR SERVICES | | |
|--|----------------|--|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 | |
| EL PASO ENERGY CORPORATION | (915) 496-5244 | |
| EL PASO WATER UTILITIES | (915) 594-5500 | |
| NOI SURVEILLANCE | (800) WCI-WORK | |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 | |
| TEXAS GAS SERVICE | (915) 680-7200 | |
| ONEOK PARTNERS | (915) 595-6918 | |
| AT&T | (800) 852-3786 | |
| U.S. SPRINT TELECOMM | (800) 521-0579 | |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 821-6750 | |
| | (915) 240-3220 | |

WARNING!
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CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

RECORD DRAWINGS
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
10/24/2013

| DATE | REVISIONS | BY |
|------|-----------|----|
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One Pecos Plaza, Suite 100
El Paso, TX 79901
Phone: 915.544.5232 Fax: 915.544.5233 www.cea.com



SCALE: 1"=30'
Horizontal: 1"=50'
Vertical: 1"=5'
Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: A.H.
JOB No. 2050-013-LD

DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SHEET TITLE
RED CEDAR DR.
PLAN & PROFILE
FROM STA. 7+50.00
TO STA. 15+00.00

SHEET NO.
C6.10

GENERAL NOTES:
1. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.

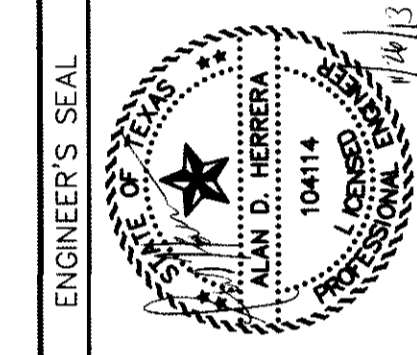
| UTILITY LOCATOR SERVICES | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING!
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CALL
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1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

RECORD DRAWINGS
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
10/24/2013
REFERENCE SUBDIVISION PHASE II

| DATE | REVISIONS | BY |
|------|-----------|----|
| | | |
| | | |

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engineers • architects • planners
Caster Center @ Transmountain
1712 W. Mountain View, Suite 1700
El Paso, TX 79902
CEA GROUP, INC. REG. PROFESSIONAL ENGINEERS
TEXAS FIRM REGISTRATION NO. 4864

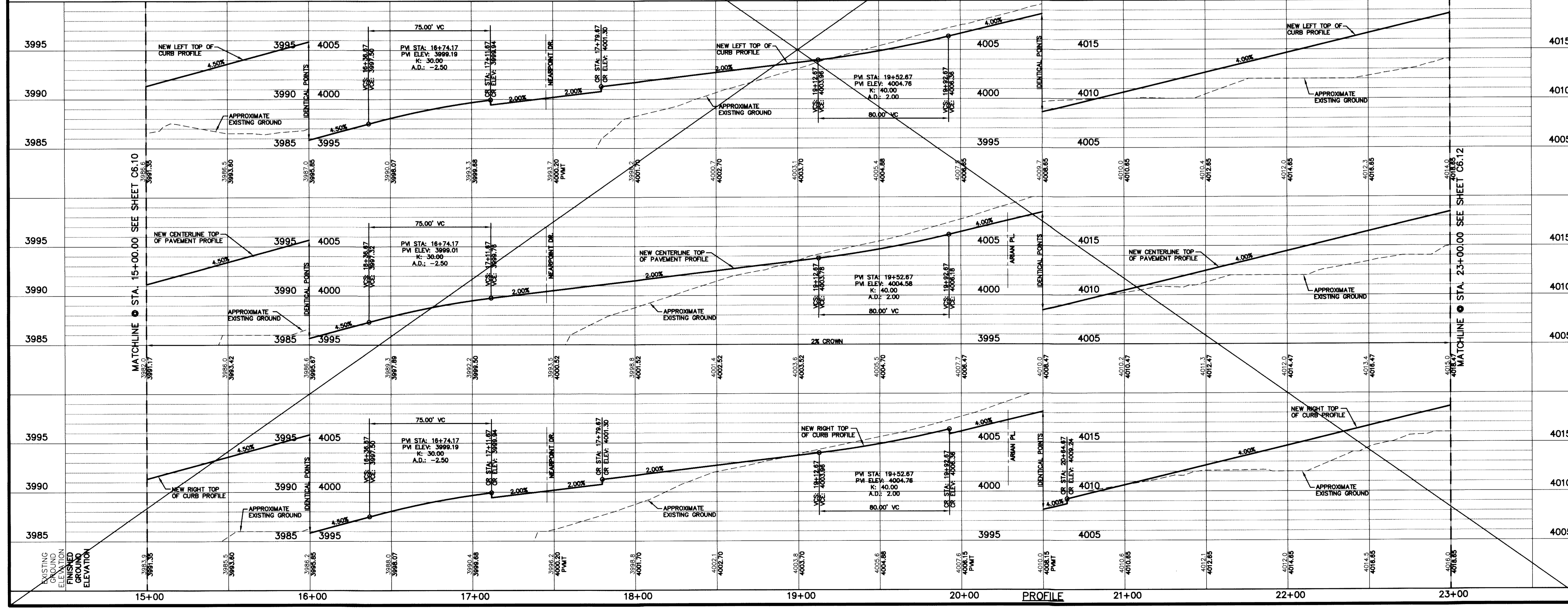
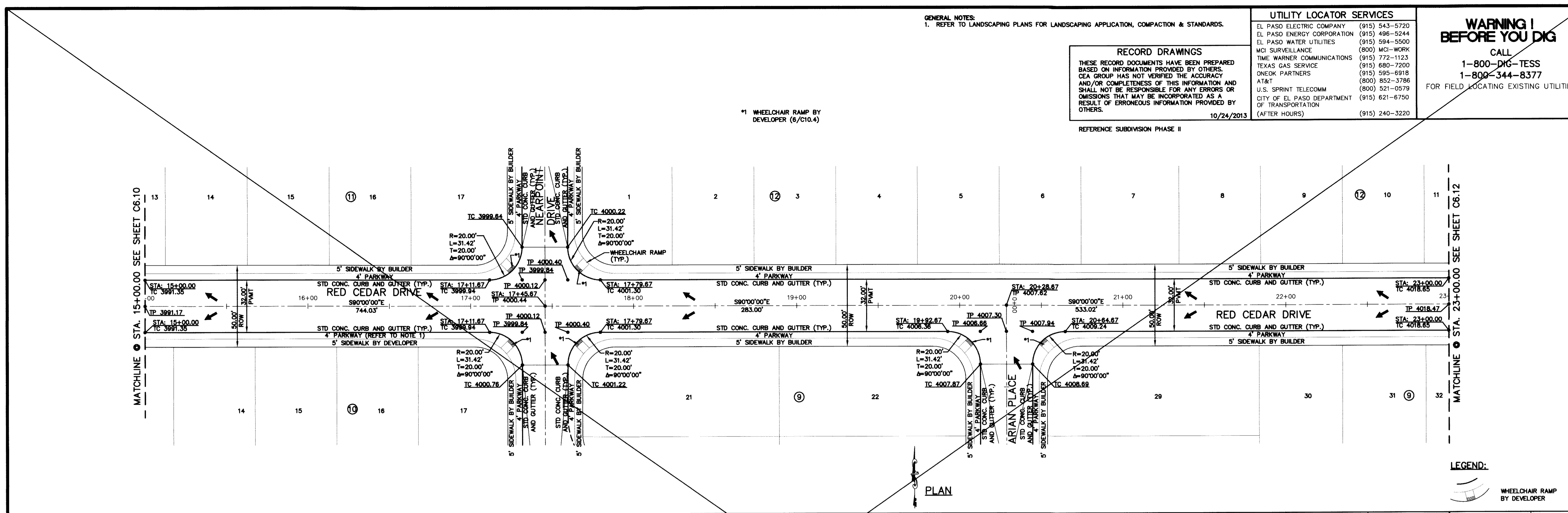


SCALE: 1"=30'
Horizontal: 1"=50'
Vertical: 1"=5'
Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: A.H.
JOB No. 2050-013-1D

**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
RED CEDAR DR.
PLAN & PROFILE
FROM STA. 15+00.00
TO STA. 23+00.00

SHEET NO.
C6.11



PROJECT TITLE

GENERAL NOTES:
1. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.

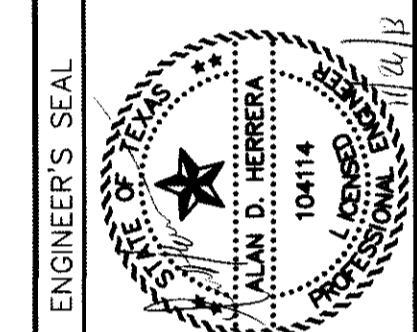
| UTILITY LOCATOR SERVICES | | |
|--|----------------|--|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 | |
| EL PASO ENERGY CORPORATION | (915) 496-5244 | |
| EL PASO WATER UTILITIES | (915) 594-5500 | |
| MCI SURVEILLANCE | (800) MCI-WORK | |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 | |
| TEXAS GAS SERVICE | (915) 680-7200 | |
| ONEOK PARTNERS | (915) 595-6918 | |
| A&T | (800) 852-3786 | |
| U.S. SPRINT TELECOMM | (800) 521-0579 | |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 | |
| (AFTER HOURS) | (915) 240-3220 | |

WARNING!
BEFORE YOU DIG
CALL
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1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

RECORD DRAWINGS
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10/24/2013

| DATE | REVISIONS | BY |
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| | | |

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10114
Office: 915.544.5232 Fax: 915.544.5233 www.cea.com
TEXAS FIRM REGISTRATION NO. 4584

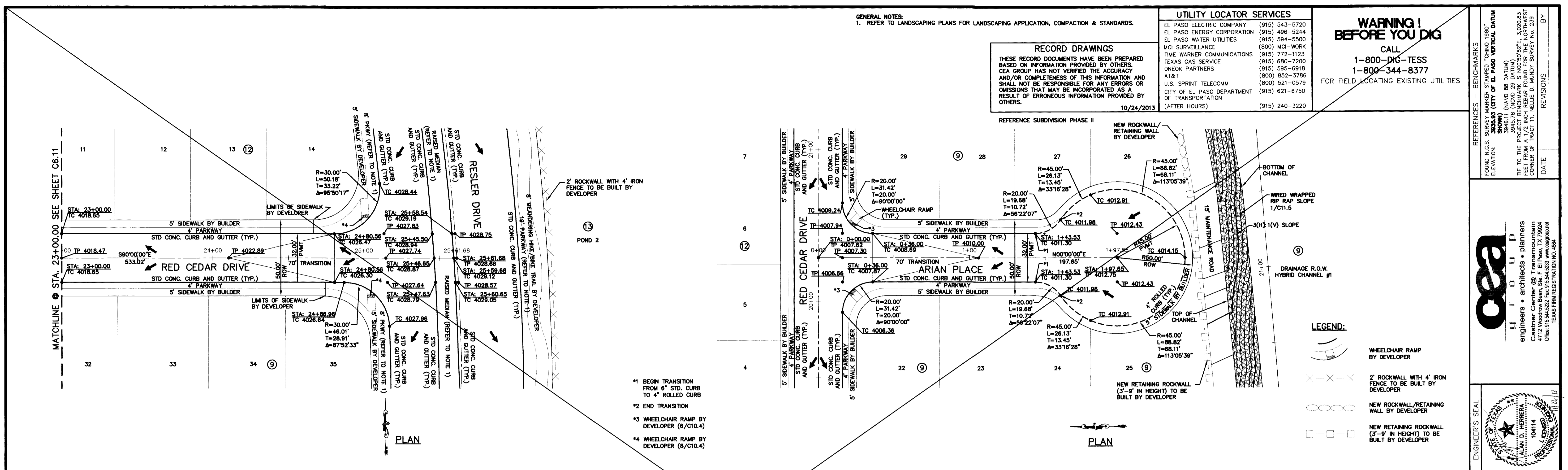


SCALE: 1"=30'
Horizontal: 1"=50'
Vertical: 1"=5'
Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: A.H.
JOB NO. 2050-013-LD

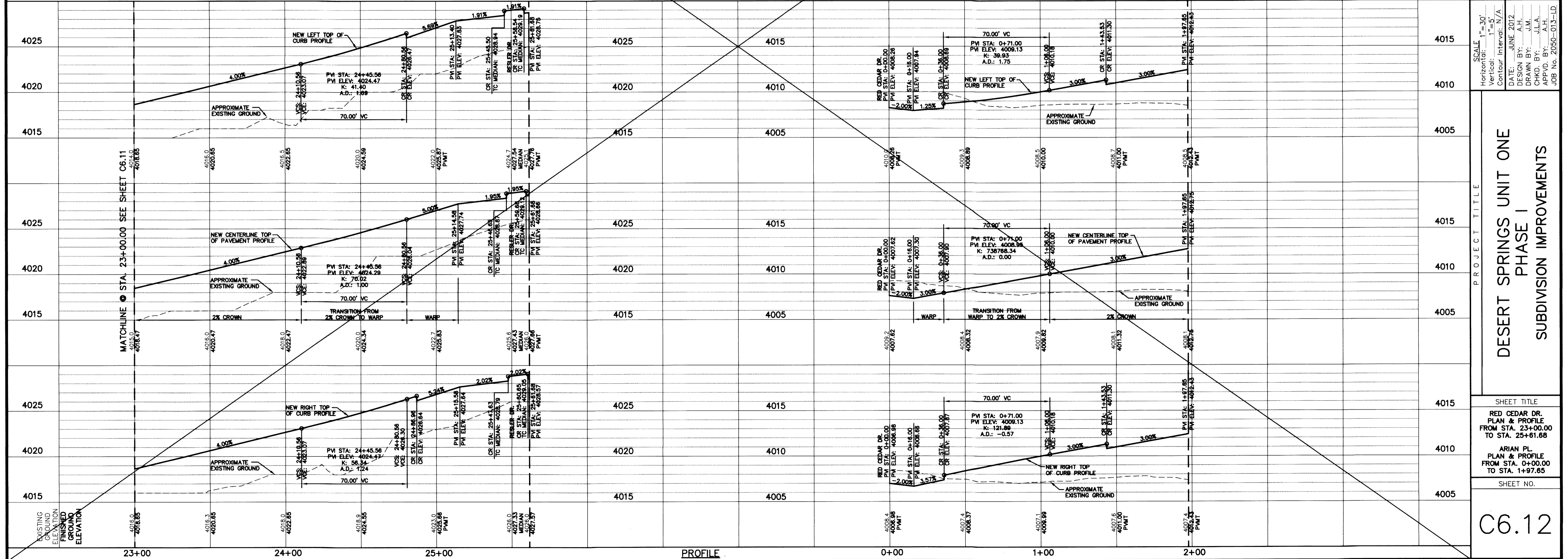
PROJECT TITLE
**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
RED CEDAR DR.
PLAN & PROFILE
FROM STA. 23+00.00
TO STA. 25+61.68
ARIAN PL.
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 1+97.65

SHEET NO.
C6.12



- *1 BEGIN TRANSITION FROM 6" STD. CURB TO 4" ROLLED CURB
- *2 END TRANSITION
- *3 WHEELCHAIR RAMP BY DEVELOPER (6/C10.4)
- *4 WHEELCHAIR RAMP BY DEVELOPER (8/C10.4)



DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

| UTILITY LOCATOR SERVICES | | |
|--|----------------|--|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 | |
| EL PASO ENERGY CORPORATION | (915) 496-5244 | |
| EL PASO WATER UTILITIES | (915) 594-5500 | |
| MOI SURVEILLANCE | (800) MOI-WORK | |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 | |
| TEXAS GAS SERVICE | (915) 680-7200 | |
| ONEOK PARTNERS | (915) 595-6918 | |
| AT&T | (800) 852-3786 | |
| U.S. SPRINT TELECOMM | (800) 521-0579 | |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 | |
| (AFTER HOURS) | (915) 240-3220 | |

WARNING!
BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

RECORD DRAWINGS

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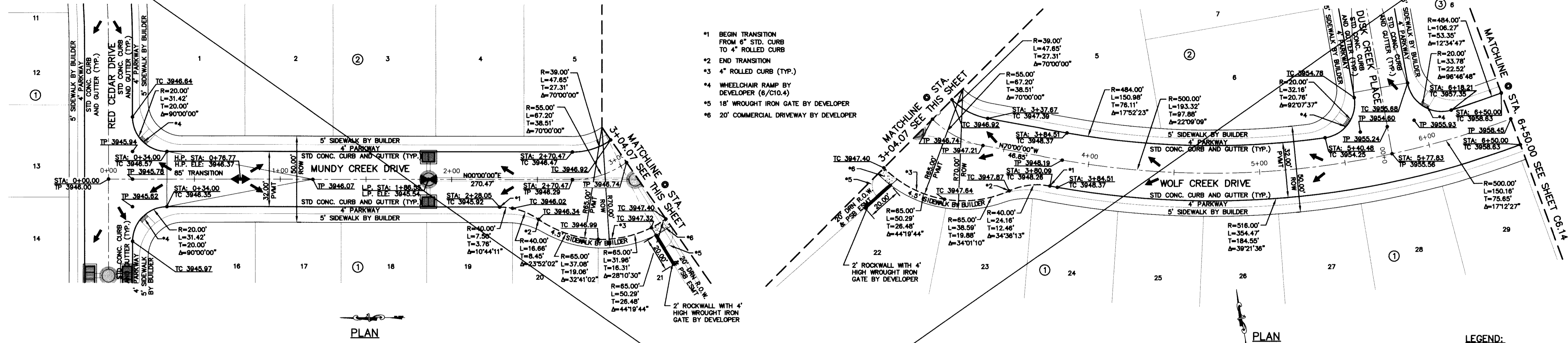
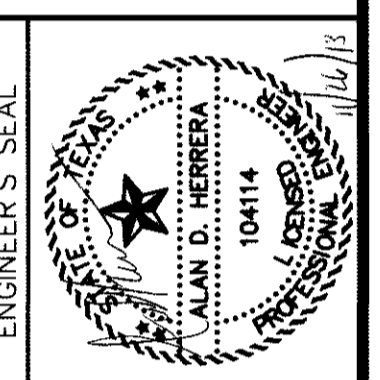
10/24/2013

| REFERENCES - BENCHMARKS | DATE | REVISIONS | BY |
|---|------|-----------|----|
| FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980" ELEVATION: 3946.11 (CITY OF EL PASO VERTICAL DATUM) | | | |
| FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980" ELEVATION: 3946.11 (NAVD 88 DATUM) | | | |
| FEET TO THE POINT (NGVD 29 DATUM) | | | |
| BE TO THE POINT (NGVD 29 DATUM) | | | |
| CORNER OF TRACT 11, NELLE D. MUNDY SURVEY No. 239 | | | |

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4712 Woodrow Blvd, Ste. F El Paso, TX 79924
Office: 915.544.5332 Fax: 915.544.5333 www.cega.com
Texas P.E. Registration No. 4584

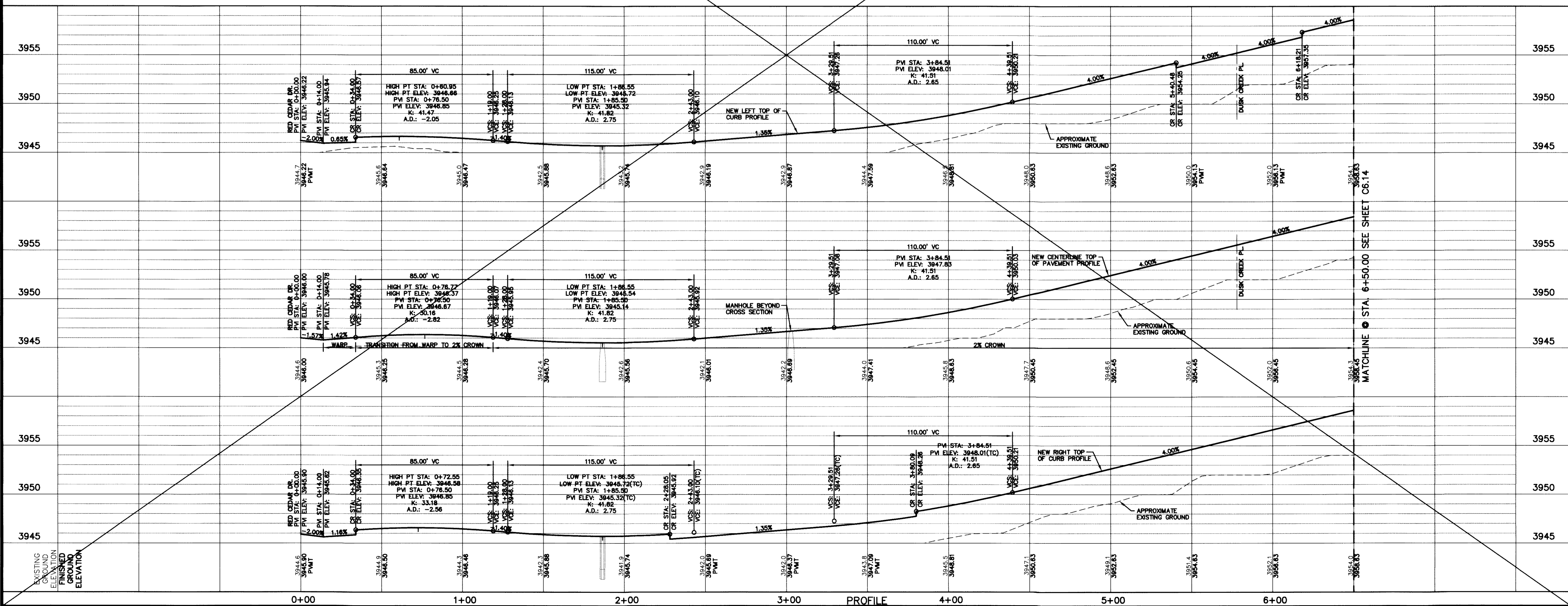


- *1 BEGIN TRANSITION FROM 6" STD. CURB TO 4" ROLLED CURB
- *2 END TRANSITION
- *3 4" ROLLED CURB (TYP.)
- *4 WHEELCHAIR RAMP BY DEVELOPER (6/10.4)
- *5 18" WROUGHT IRON GATE BY DEVELOPER
- *6 20" COMMERCIAL DRIVEWAY BY DEVELOPER

PLAN

PLAN

LEGEND:



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

Contour Interval: N/A

DATE: JUNE 2012
DESIGN BY: AJH
DRAWN BY: JMK
APP'D BY: JAH
JOB No. 2050-013-LD

PROJECT TITLE

**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

WOLF CREEK DR.
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 6+50.00

SHEET NO.

C6.13

GENERAL NOTES:
1. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.

RECORD DRAWINGS
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
10/24/2013
REFERENCE SUBDIVISION PHASE II

UTILITY LOCATOR SERVICES

| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO WATER UTILITIES | (915) 496-5244 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

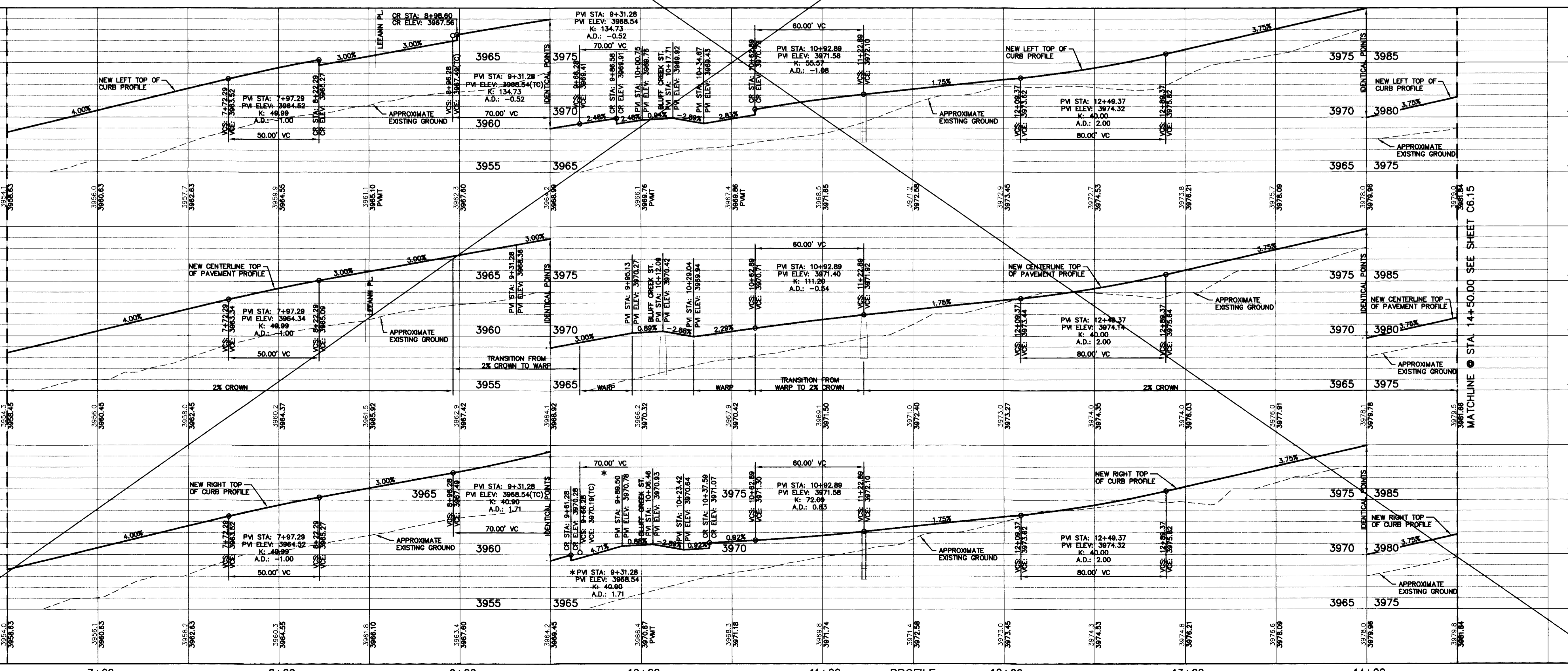
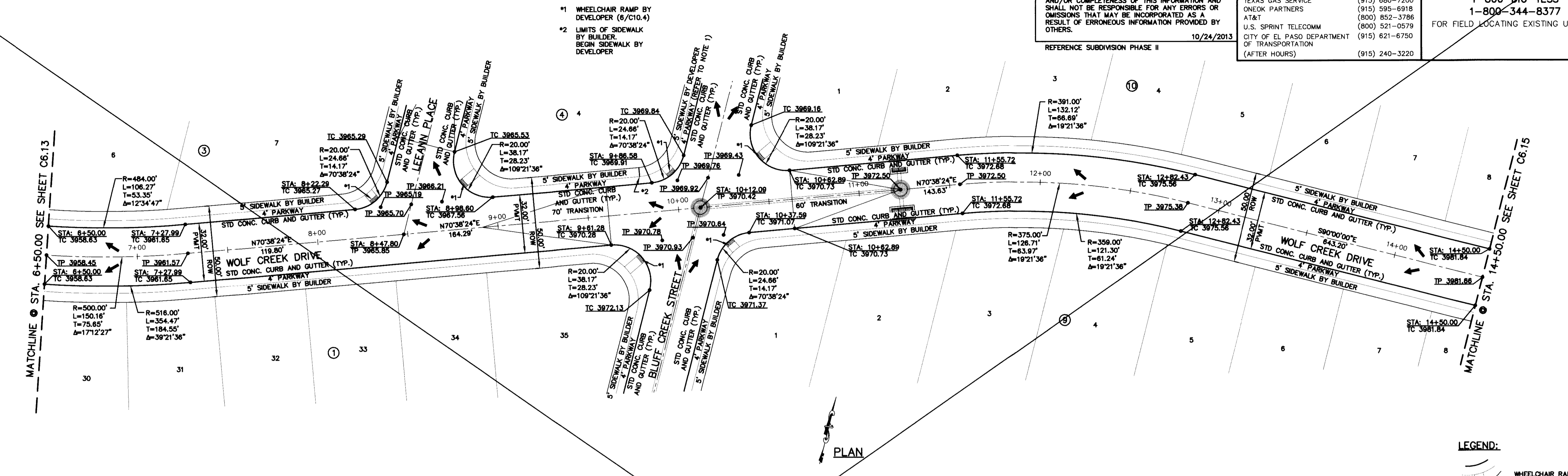
WARNING!
BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

FOUND N.G.S. SURVEY MARKER STATION "CHINO 1984" ELEVATION: 3946.11 (NAVD 88 DATUM)
3945.76 (NAVD 88 DATUM)
3945.76 (NAVD 88 DATUM)
FEET TO THE PROJECT CORNER IS 100.00 FEET FROM THE PROJECT CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

| DATE | REVISIONS | BY |
|------|-----------|----|
| | | |

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4712 Woodrow Behm, Ste. F, El Paso, TX 79964
City of El Paso, Texas
Texas Professional Registration No. 458



ENGINEER'S SEAL

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

Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: A.H.
JOB No. 2050-013-1D

**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

**WOLF CREEK DR.
PLAN & PROFILE
FROM STA. 6+50.00
TO STA. 14+50.00**

SHEET NO.
C6.14

GENERAL NOTES:
1. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.

RECORD DRAWINGS
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
10/24/2013
REFERENCE SUBDIVISION PHASE II

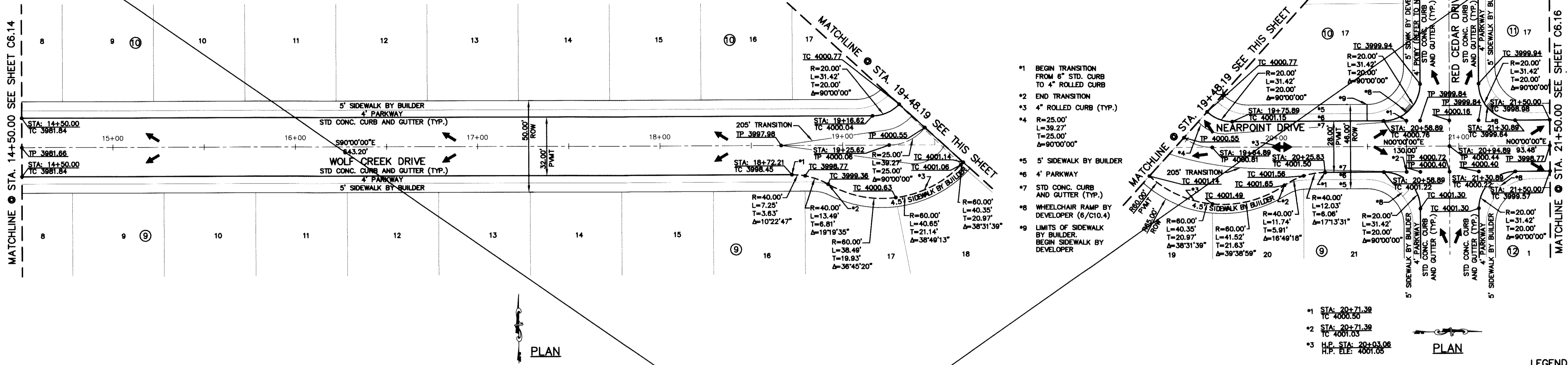
| UTILITY LOCATOR SERVICES | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING I BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

| DATE | REVISIONS | BY |
|------|-----------|----|
| | | |

REFERENCES - BENCHMARKS
FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
ELEVATION: 3983.93 (CITY OF EL PASO VERTICAL DATUM)
3946.11 (NAVD 88 DATUM)
3945.78 (NAVD 29 DATUM)
SEE TO THE PROJECT BENCHMARKS LISTED TO THE NORTHWEST CORNER OF TRACT 11, HELLE D. MANDY SURVEY NO. 239

CSA
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Center • Center of Transmountain
4712 Woodrow Wilson, Ste. F El Paso, TX 79924
Office: 915.544.5322 Fax: 915.544.5233 www.csaonline.com
TEXAS PROFESSIONAL REGISTRATION NO. 0684

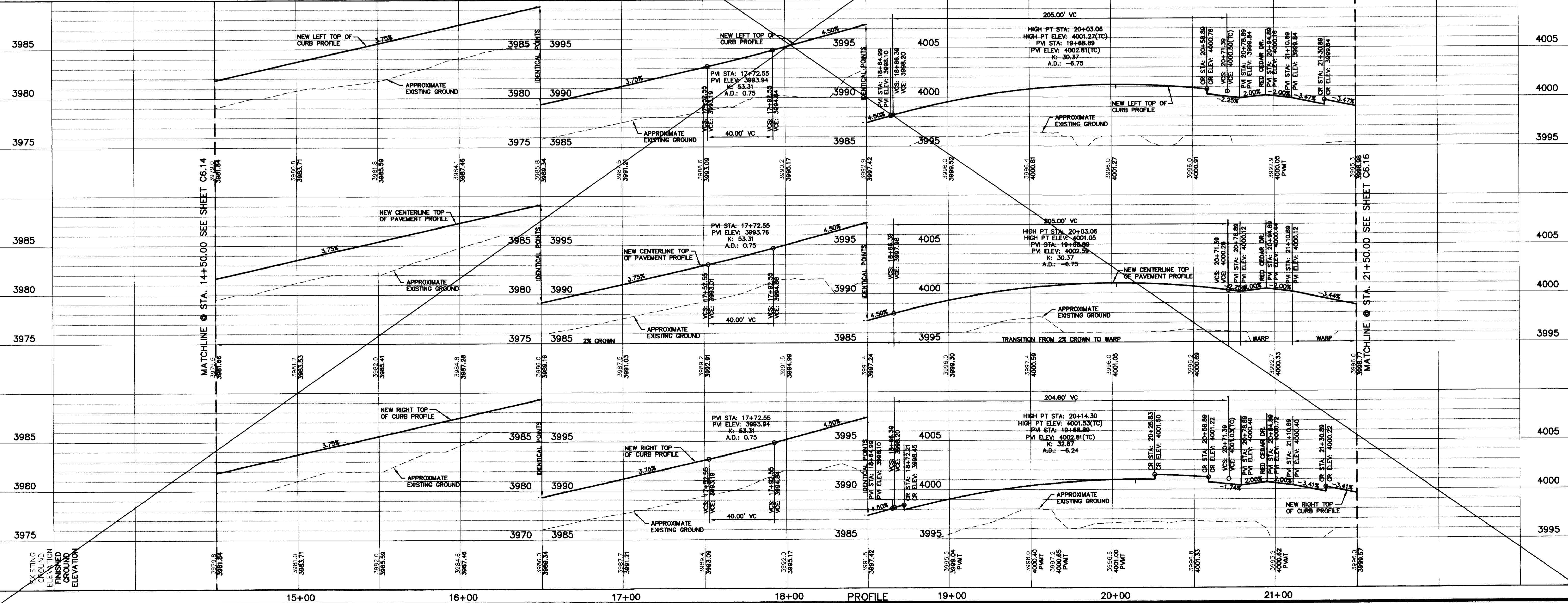


- *1 BEGIN TRANSITION FROM 6" STD. CURB TO 4" ROLLED CURB
- *2 END TRANSITION
- *3 4" ROLLED CURB (TYP.)
- *4 4" PARKWAY
- *5 5' SIDEWALK BY BUILDER
- *6 4" PARKWAY
- *7 STD CONC. CURB AND GUTTER (TYP.)
- *8 WHEELCHAIR RAMP BY DEVELOPER (6"/C10.4)
- *9 LIMITS OF SIDEWALK BY BUILDER, BEGIN SIDEWALK BY DEVELOPER

- *1 STA: 20+71.39
- *2 STA: 20+71.39
- *3 H.P. STA: 20+03.06
H.P. ELE: 4001.05



LEGEND:
WHEELCHAIR RAMP BY DEVELOPER



SCALE: 1" = 30'
Vertical: 1" = 5'
Horizontal: 1" = 100'
Contour Interval: 5'/A

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPVD. BY: A.H.
JOB NO. 2050-013-1D

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

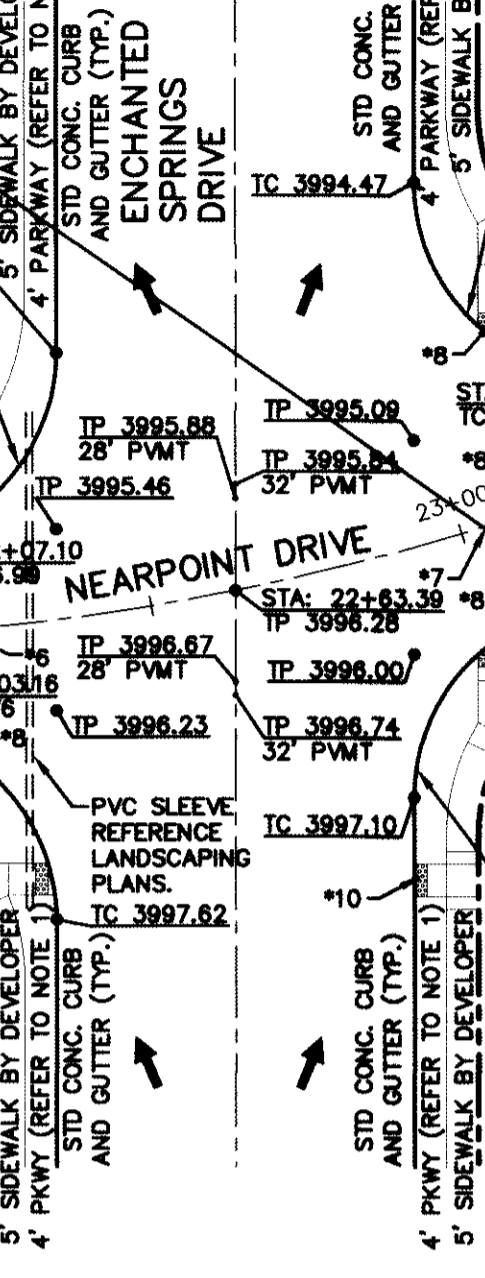
SHEET TITLE
WOLF CREEK DR.
PLAN & PROFILE
FROM STA. 14+50.00
TO STA. 19+48.19

NEARPOINT DR.
PLAN & PROFILE
FROM STA. 19+48.19
TO STA. 21+50.00

SHEET NO.
C6.15

- *1 STA. 21+50.00
TC 3999.57
- *2 STA. 21+50.00
TC 3998.77
- *3 STA. 21+50.00
TC 3998.88
- *4 STA. 21+58.37
TC 3998.28
- *5 STA. 21+58.37
TC 3997.84

- *6 R=375.00'
L=75.02'
T=37.64'
Δ=11°27'45"
- *7 R=375.00'
L=44.89'
T=22.47'
Δ=6°51'32"
- *8 R=375.00'
L=37.95'
T=18.99'
Δ=5°47'54"



FUTURE DEVELOPMENT (DESERT SPRINGS UNIT FOUR)

Parcel 2
Survey No. 244
RVE Unit 18, Ltd
Book 4805, Page 1180

FUTURE DEVELOPMENT (DESERT SPRINGS UNIT FOUR)

Parcel 2
Survey No. 244
RVE Unit 18, Ltd
Book 4805, Page 1180

PLAN

PLAN

GENERAL NOTES:
1. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.

RECORD DRAWINGS
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10/24/2013

UTILITY LOCATOR SERVICES

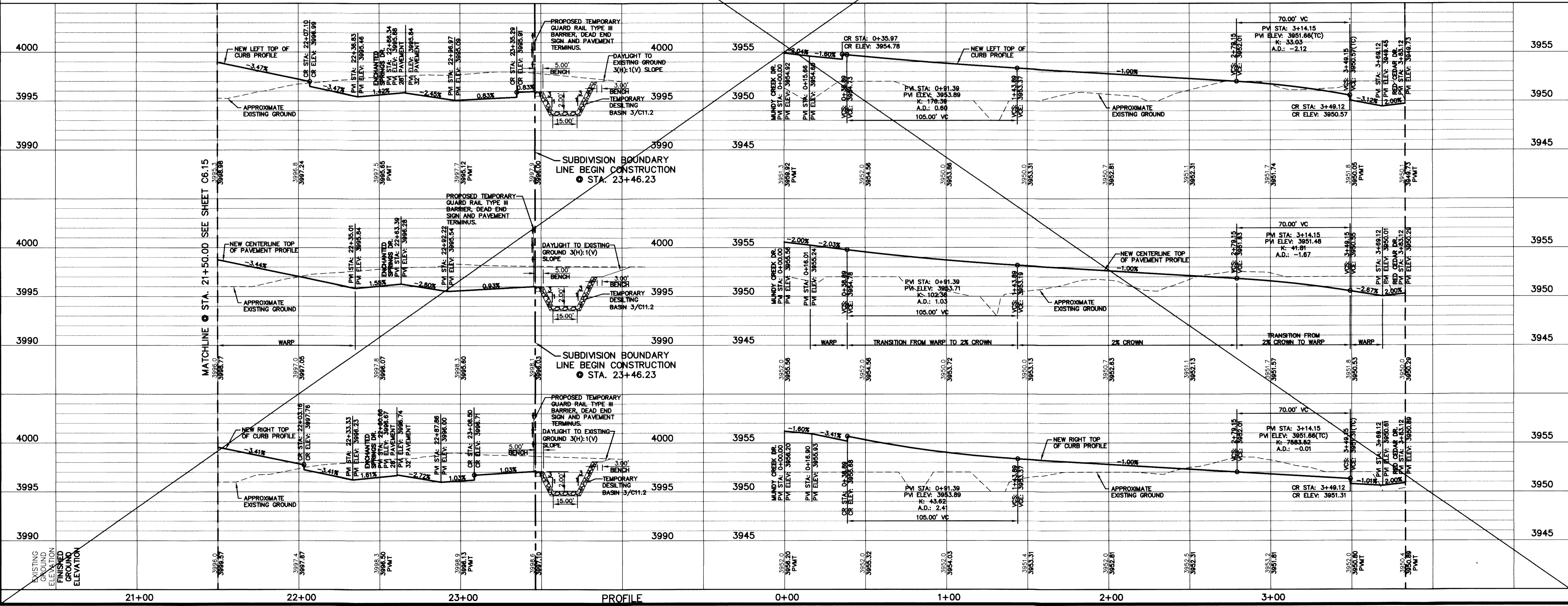
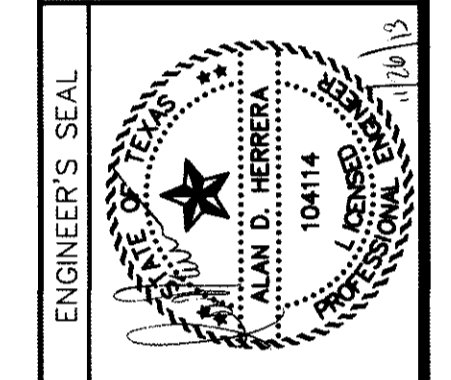
| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 853-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING!
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CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

| | |
|--|---|
| FOUND U.S.S. SURVEY MARKER STANDED "CHUNG 1880" | ELEVATION: 3935.83 (CITY OF EL PASO VERTICAL DATUM) |
| (NAD 83 DATUM) | 3946.11 |
| NOTE TO THE PROJECT BENCHMARK IS NAD83/2011, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLE D. MONDY SURVEY NO. 239 | |

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4712 West Loop East, Suite 1000, TX 79624
One West Loop East, Suite 1000, TX 79624
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FAX: (915) 762-1112
WWW.CEAA.COM
REGISTRATION NO. 1884



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

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPVD. BY: A.H.
JOB NO. 2050-013-1D

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**NEARPOINT DR.
PLAN & PROFILE
FROM STA. 21+50.00
TO STA. 23+46.23**

**DUSK CREEK PL.
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 3+83.12**

SHEET NO.
C6.16

GENERAL NOTES:
1. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.

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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING!
BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

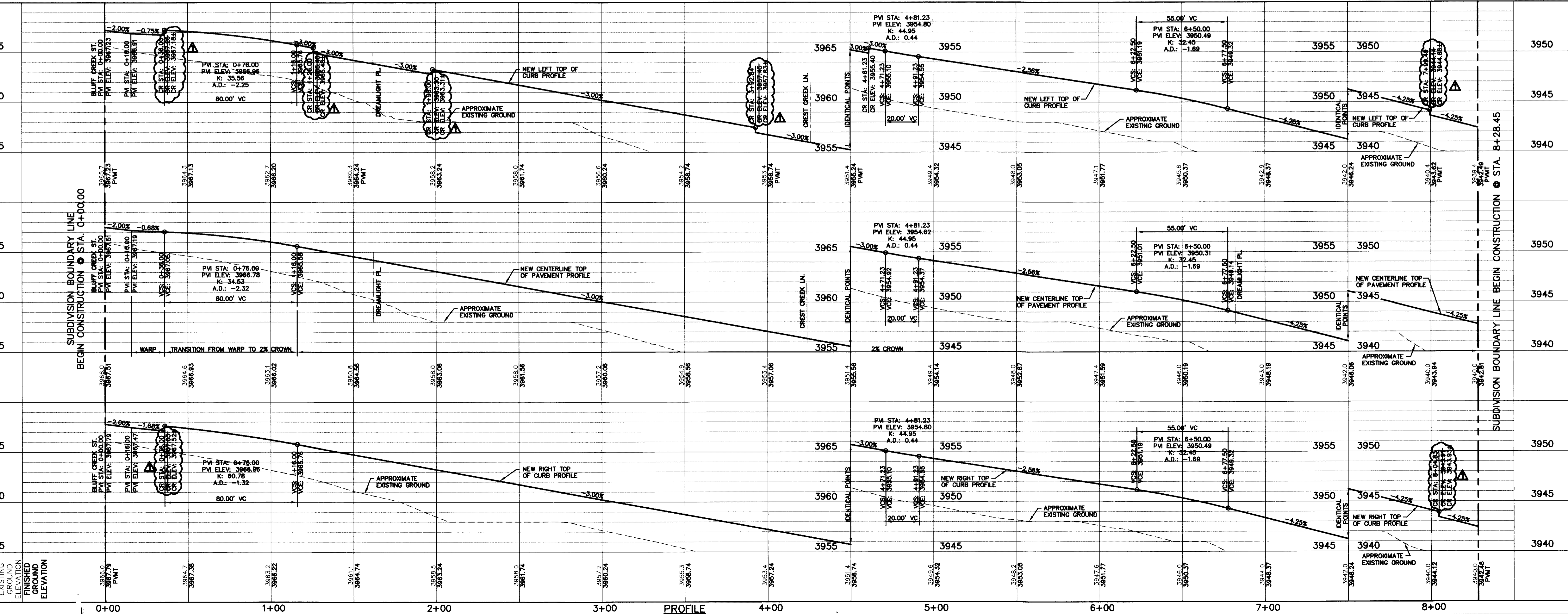
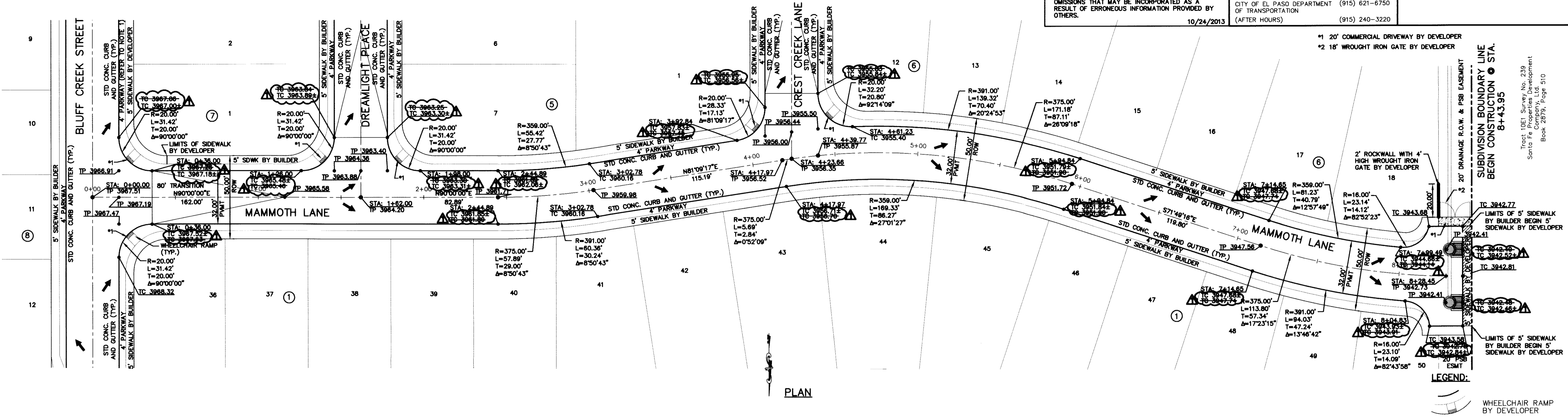
RECORD DRAWINGS

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10/24/2013

*1 WHEELCHAIR RAMP BY DEVELOPER (6/C10.4)

*1 20' COMMERCIAL DRIVEWAY BY DEVELOPER
*2 18' WROUGHT IRON GATE BY DEVELOPER



REFERENCES - BENCHMARKS

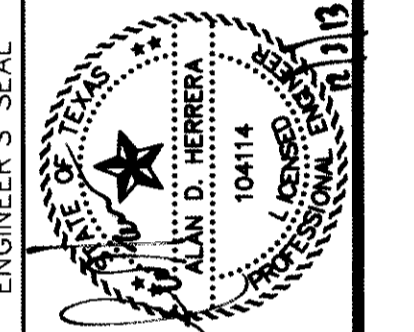
FOUND IN S.S. SURVEY REBAR BEARING "CONDUIT 1888" ELEVATION: 3946.11 (NAVD 88 DATUM)
TIE TO THE PROJECT BENCHMARK IS 1002.037E, 1020.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDT SURVEY NO. 239

DATE: _____ REVISIONS: _____ BY: _____

ELEVATION CORRECTION

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4712 Woodrow Bean, Ste. F El Paso, TX 79964
Office 915.835.1111
TELEPHONE REGISTRATION NO. 4594



SCALE: 1"=30'
Horizontal: 1"=50'
Vertical: 1"=5'
Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD BY: J.A.
APPVD BY: A.H.
JOB NO. 2009-013-LD

PROJECT TITLE

DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SHEET TITLE

MAMMOTH LN.
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 8+28.45

SHEET NO.

C6.17

GENERAL NOTES:
1. REFER TO LANDSCAPING PLANS FOR LANDSCAPING APPLICATION, COMPACTION & STANDARDS.

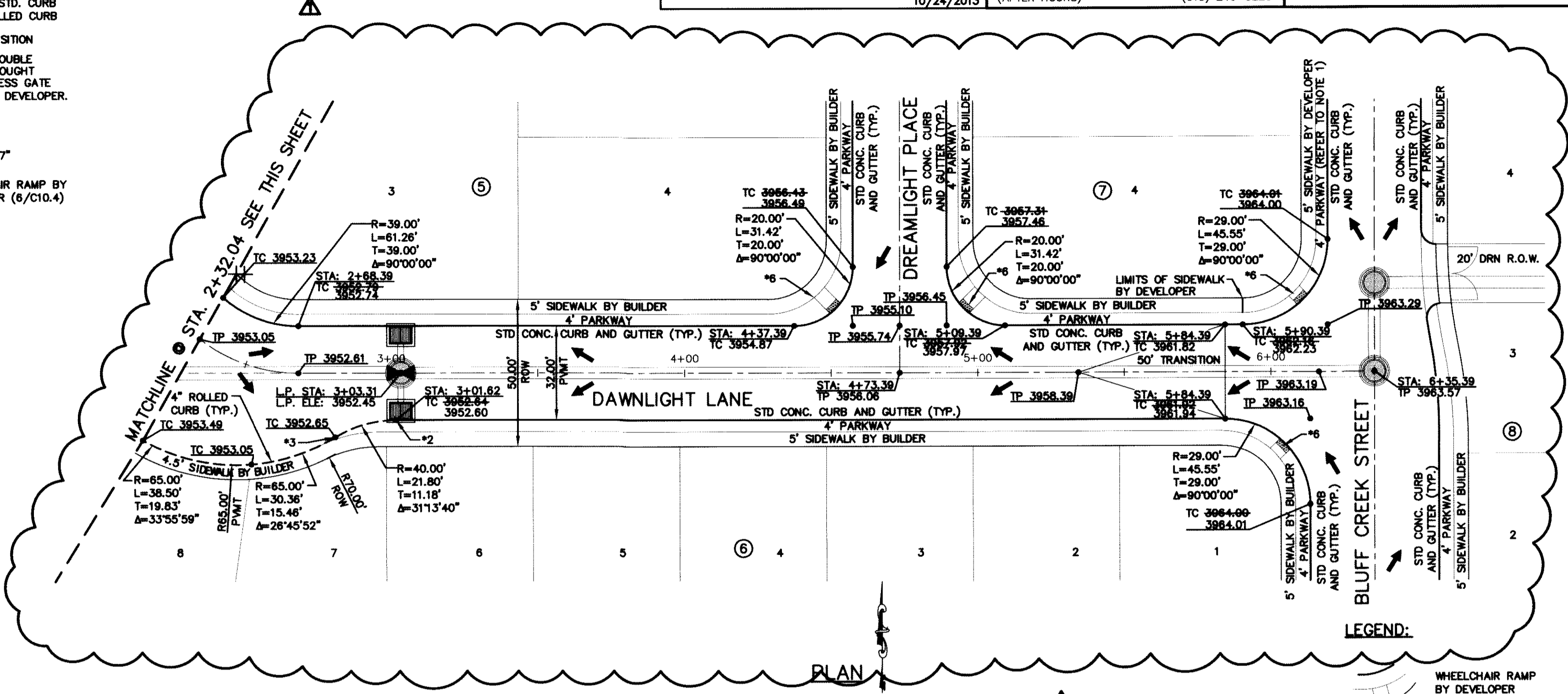
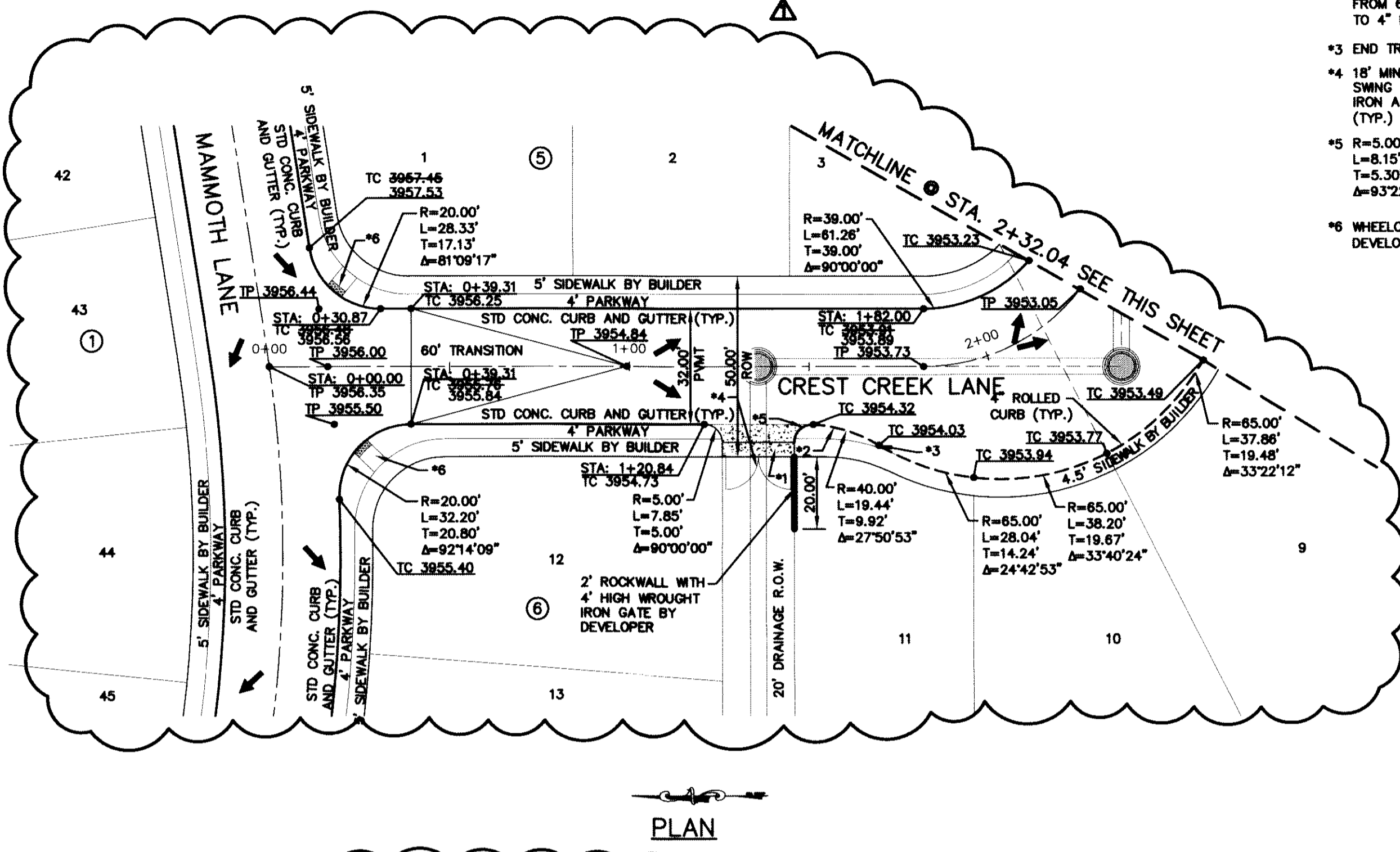
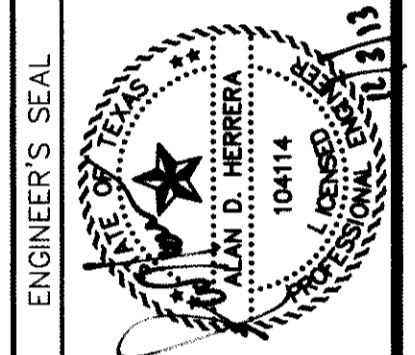
RECORD DRAWINGS
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEAA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
10/24/2013

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
ONEOK PARTNERS (915) 595-6918
AT&T (800) 852-3786
U.S. SPRINT TELECOM (800) 521-0579
CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750
(AFTER HOURS) (915) 240-3220

WARNING!
BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

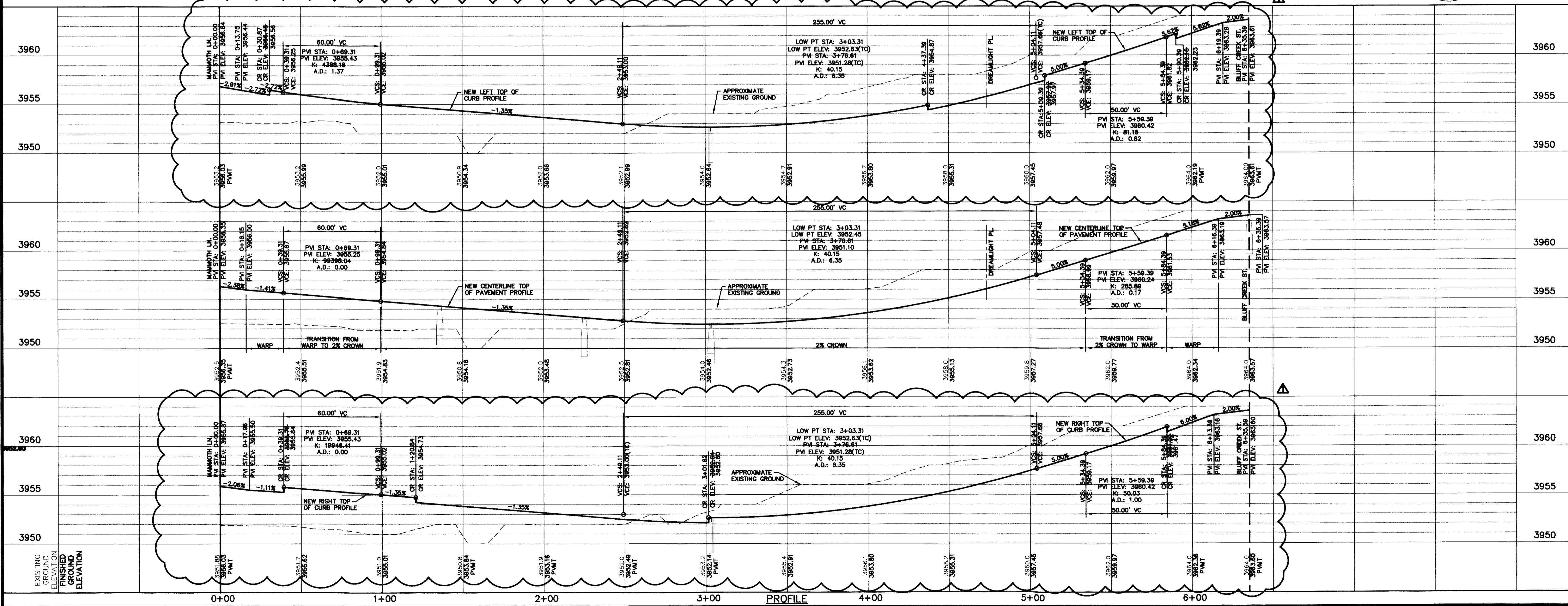
REFERENCES - BENCHMARKS
FOUND N.G.S. SURVEY MARKER STAMPED "CHRD 1967"
ELEVATION:
3946.11 (NAVD 88 DATUM)
3945.79 (NGVD 29 DATUM)
SEE TO THE PROJECT RECORDS FOR THE NORTHWEST CORNER OF TRACT 11, NELLE D. MUNDY SURVEY No. 239
DATE: 10/24/13
BY: JCH
ELEVATION CORRECTION

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engineers • architects • planners
Castner Center @ Transmountain
4712 Woodrow Blvd., Ste. F El Paso, TX 79924
Office: 915.543.5222 Fax: 915.543.5233 www.ceaa.net
TEXAS PROFESSIONAL REGISTRATION NO. 0684



PLAN

PLAN



PROFILE

SCALE: 1"=30'
Horizontal: 1"=5'
Vertical: Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A/H
DRAWN BY: A/H
CHECKED BY: A/H
JOB NO.: 2050-013-1D

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

**CREST CREEK LN.
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 6+35.39**

SHEET NO.

C6.18

RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013

GENERAL NOTES:
 1. THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN THE 30' TGS EASEMENT AND 30' LEA COUNTY GAS COMPANY EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT, NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.

UTILITY LOCATOR SERVICES

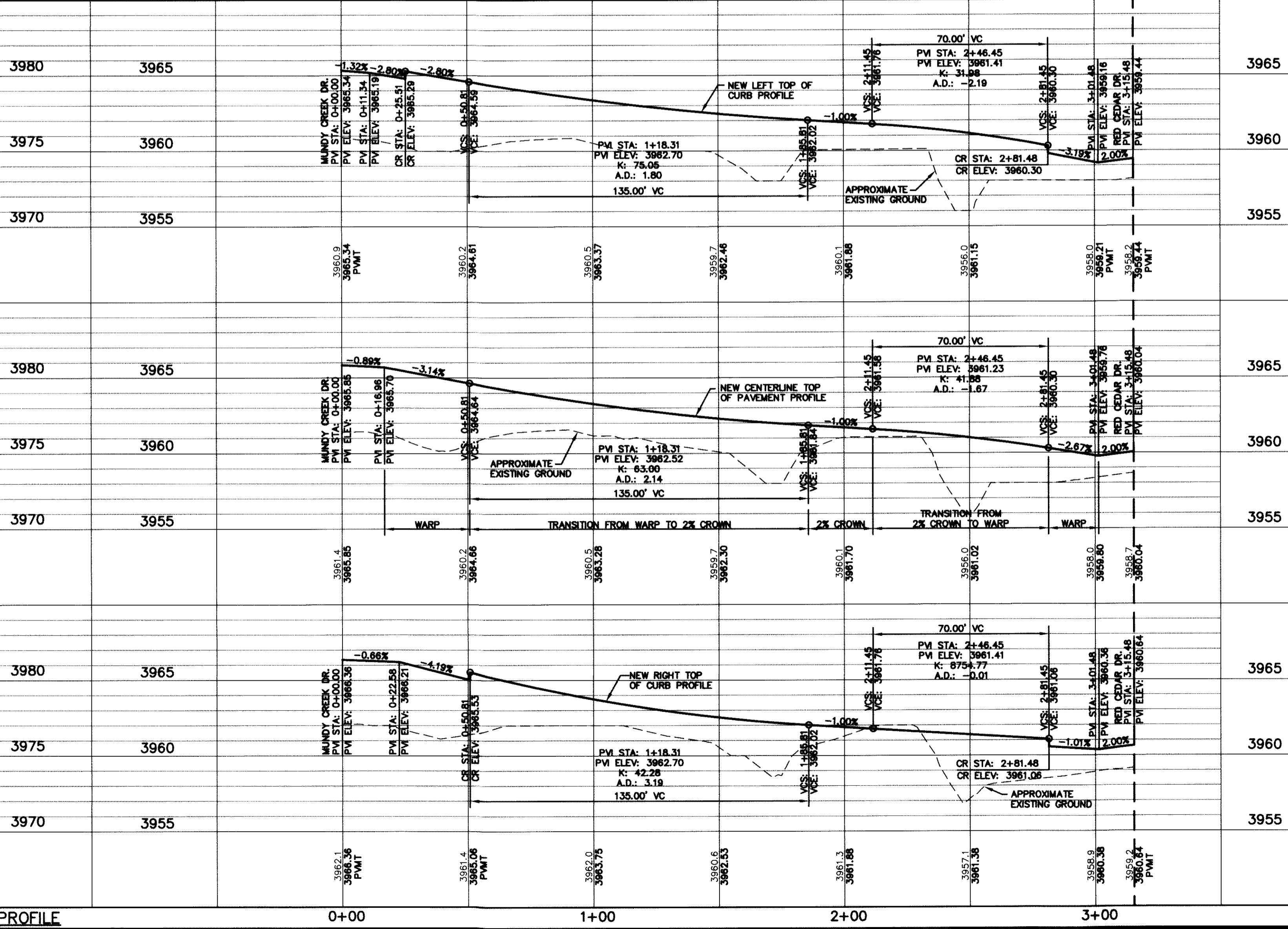
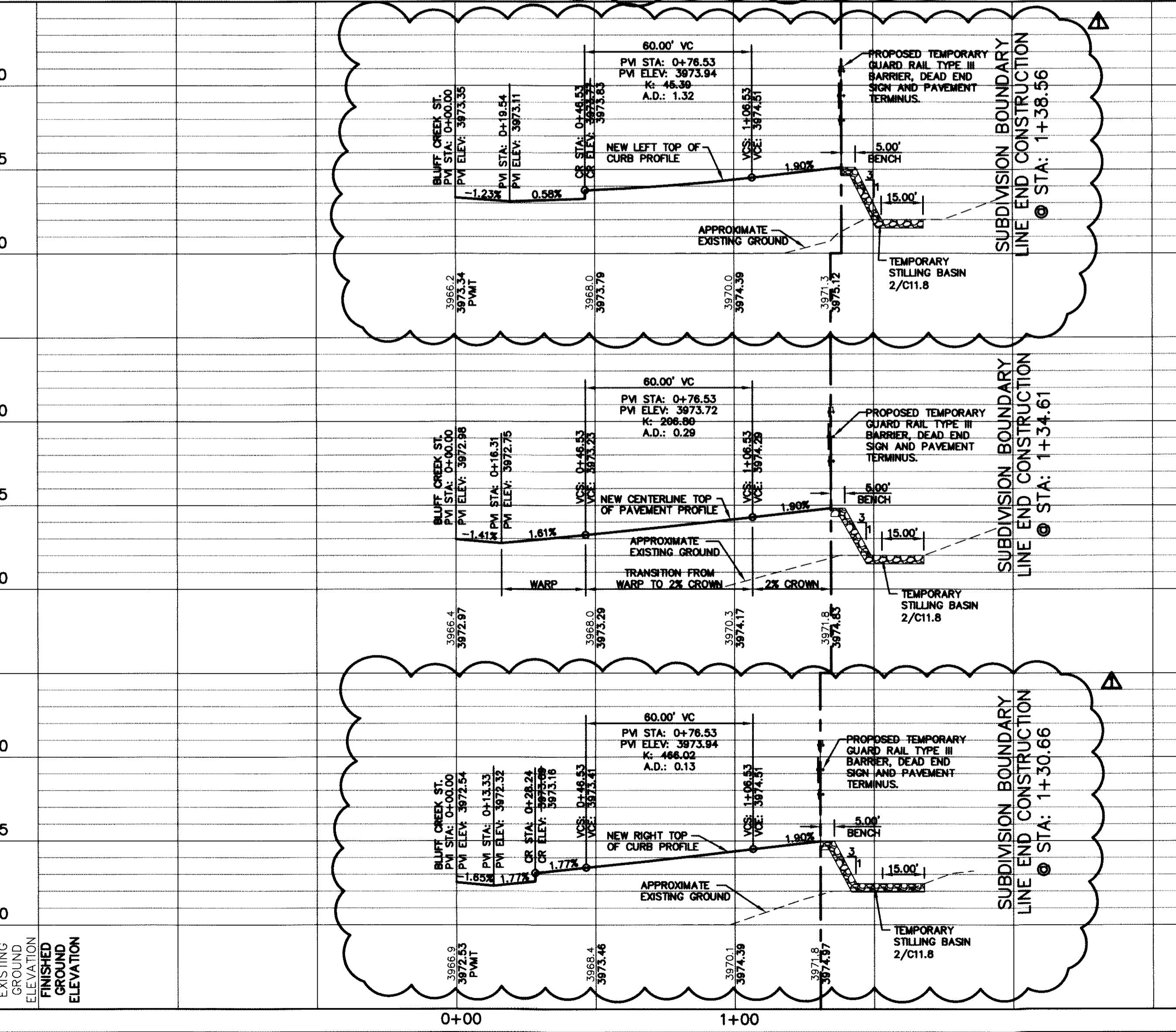
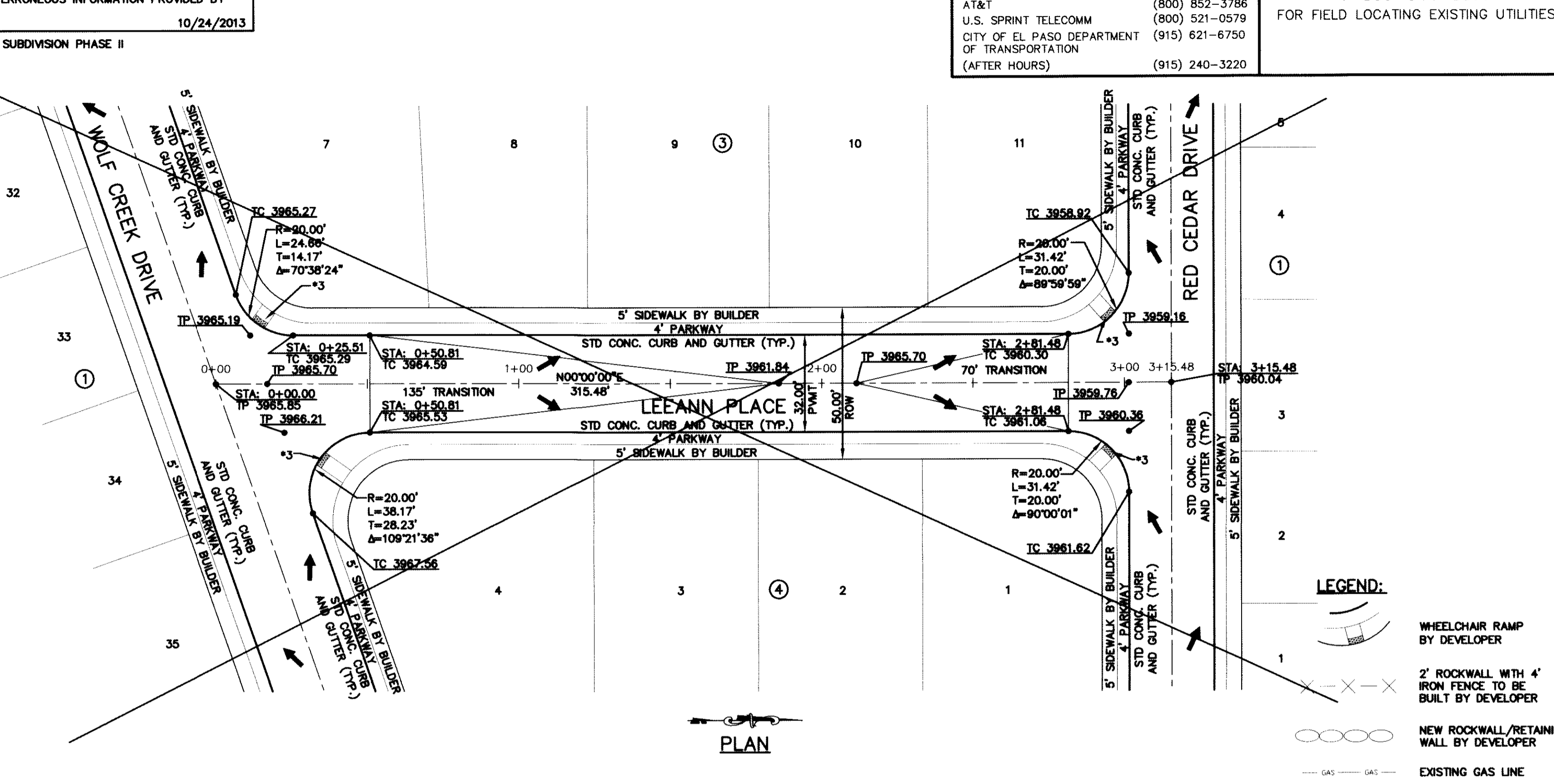
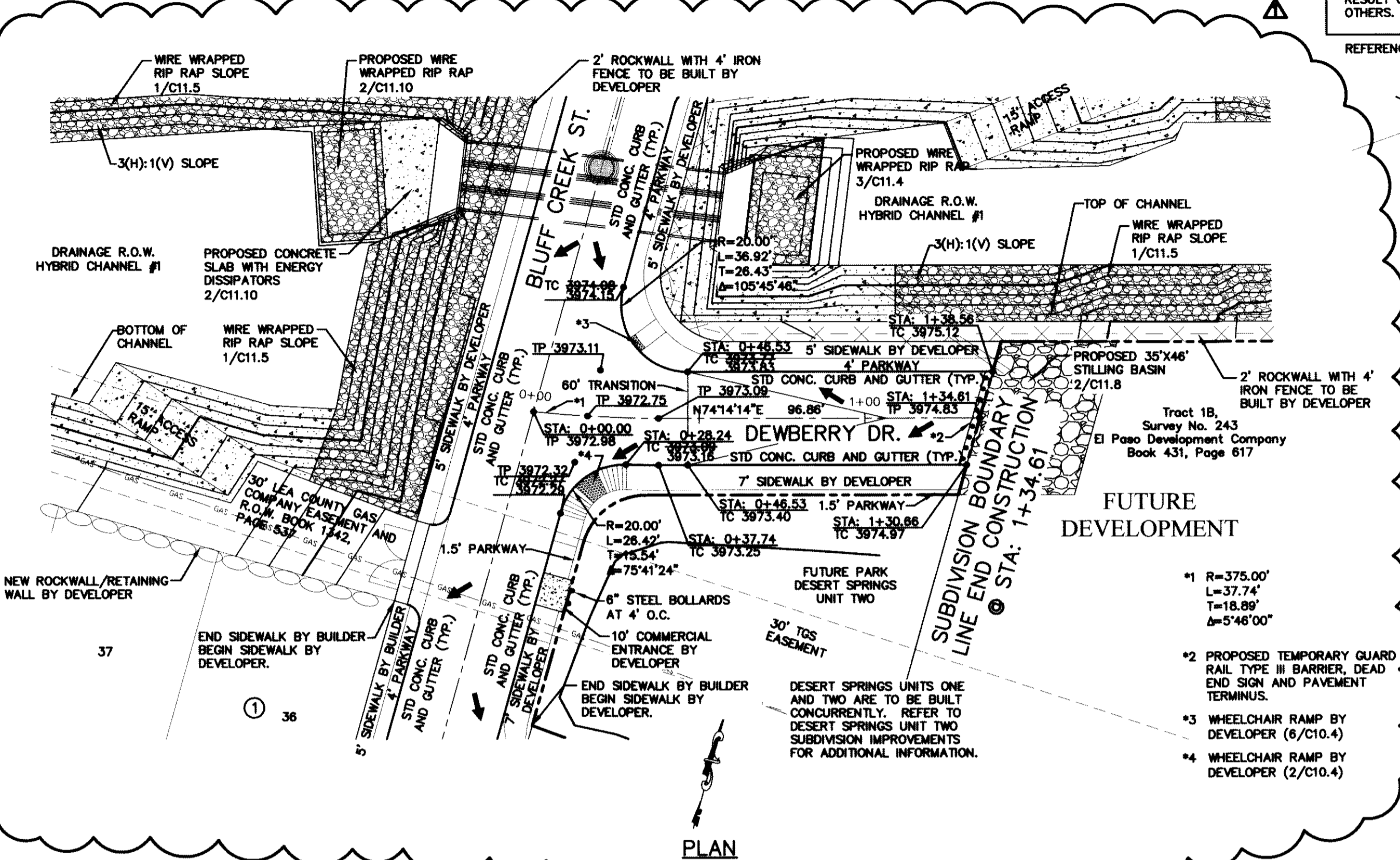
| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

| | |
|--|---|
| FOUND. N.G.S. SURVEY NUMBER: "CONUS 1983" | ELEVATION: 3945.53 (CITY OF EL PASO VERTICAL DATUM) |
| 3946.11 (NAVD 88 DATUM) | |
| TIE TO THE PROJECT BENCHMARK IS NAD83/5782. 3,020.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MOUND SURVEY, NO. 239 | |
| DATE: 10/24/13 | BY: [Signature] |
| REVISIONS: | BY: [Signature] |
| | DATE: [Signature] |
| | DATE: [Signature] |

engineers • architects • planners
 CEA Group, Inc. 10414
 Eastern Center @ Transmountain
 4712 Woodrow Bean St. Ft. El Paso, TX 79904
 Office: 915.583.8888
 TEXAS REGISTRATION NO. 4664



PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

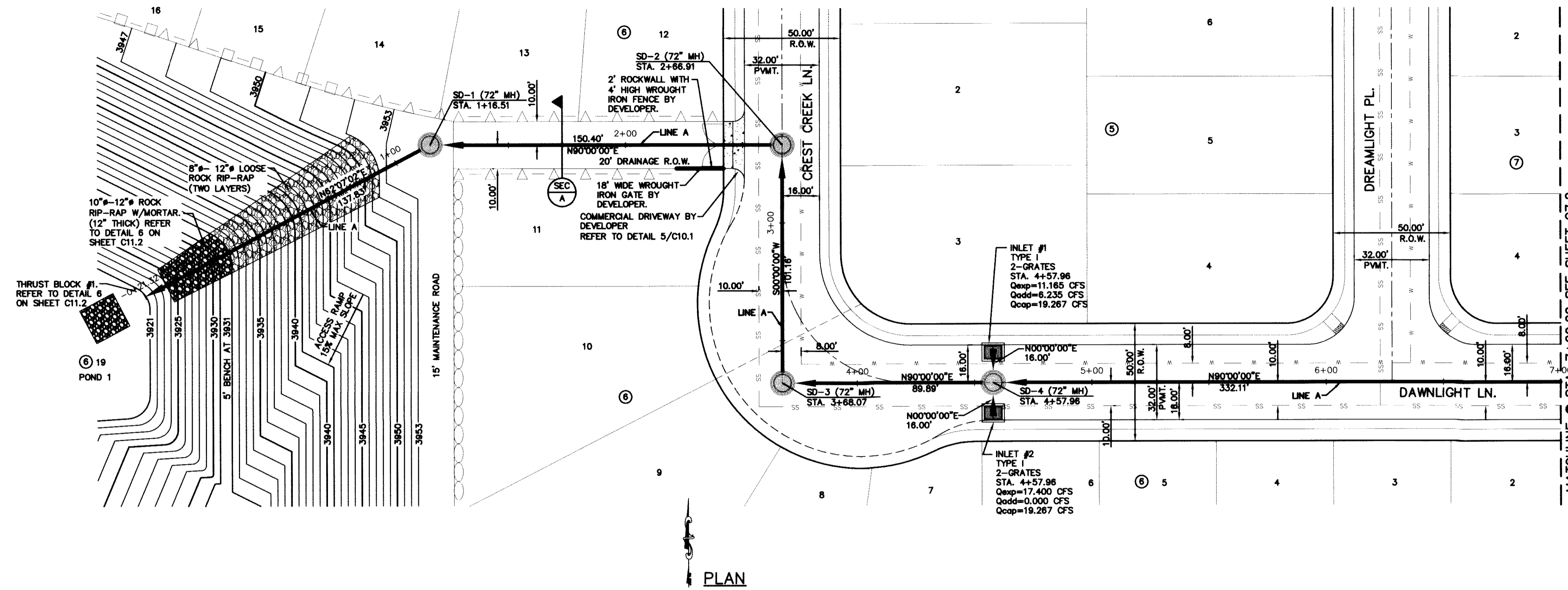
SHEET TITLE
 DEWBERRY DR.
 PLAN & PROFILE
 FROM STA. 0+00.00
 TO STA. 1+34.61

SHEET NO.
 C6.19

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

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.A.
APP'D. BY: A.H.
 JOB NO. 2050-013-1-D

LINE A



RECORD DRAWINGS

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10/24/2013

- * ACTUAL DIMENSION VARIES WITH ACTUAL THICKNESS OF THE PIPE. DIMENSION SHOWN IS FROM INVERT OF RCP PIPE TO TOP OF SANITARY SEWER PIPE AND/OR CASING.
- ** THE CONCRETE PIPE ANCHOR COLLAR SHALL BE PLACED AT THE FIRST PIPE JOINT UPSTREAM FROM THE THRUST BLOCK OUTLET STRUCTURE.

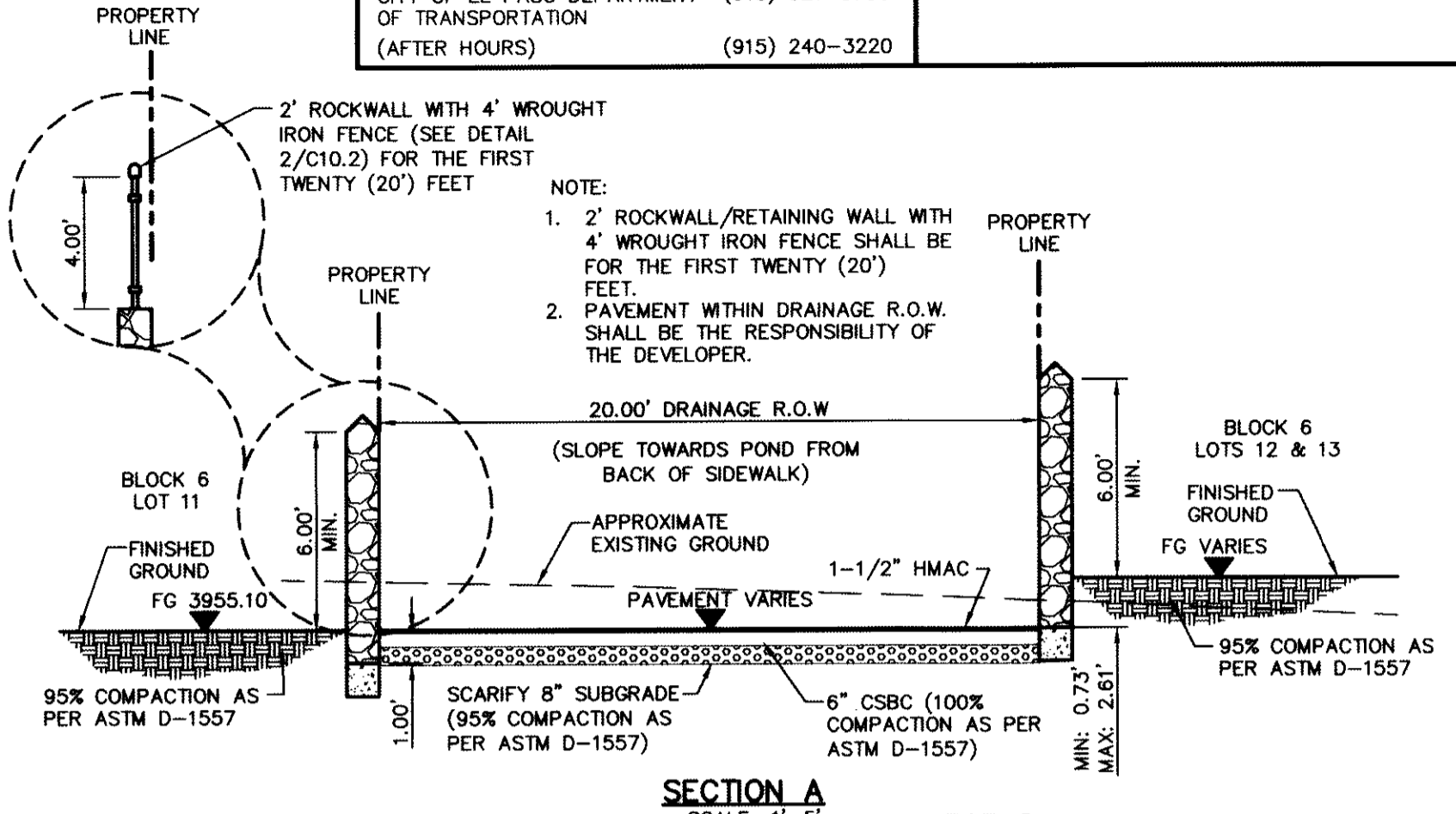
UTILITY LOCATOR SERVICES

| | |
|--|---------------------------------|
| 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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 / (915) 240-3220 |

WARNING ! BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR LOCATING EXISTING UTILITIES

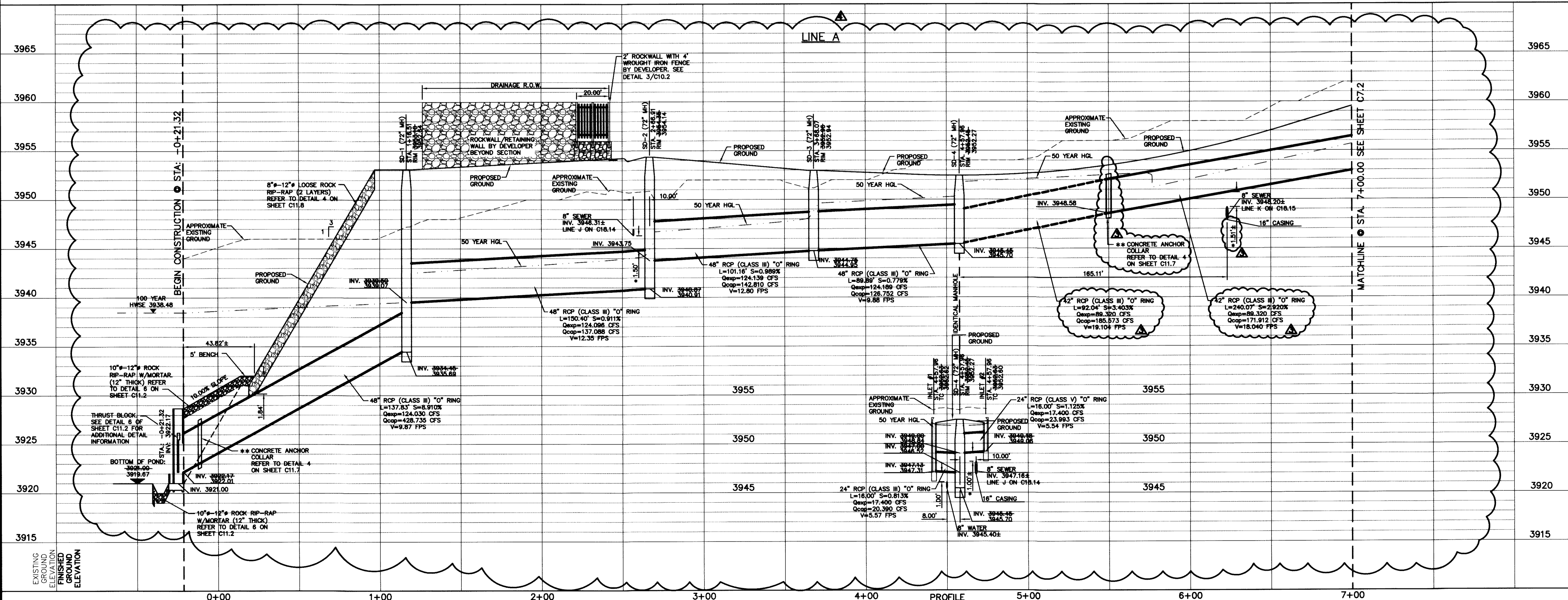


REFERENCES - BENCHMARKS
 FOUND U.S. SURVEY MARKER STAMPED "CHNO 1980"
 ELEVATION: 3933.83 (CITY OF EL PASO VERTICAL DATUM)
 (NAD 83 DATUM)
 3946.73
 TITLE TO THE PROJECT BENCHMARK IS NAD83 UTM ZONE 16Q
 CORNER OF TRACT 11, NELLIE D. MONDY SURVEY NO. 239
 DATE REVISIONS BY

cea

engineers • architects • planners
 Ceasar Center @ Transmountain
 606 E. SHILOH ROAD SUITE 100
 EL PASO, TEXAS 79902
 (915) 543-2020
 TEXAS PROFESSIONAL REGISTRATION NO. 04862

ENGINEER'S SEAL
 STATE OF TEXAS
 CIVIL ENGINEER
 JAMES D. JEFFREY
 10414
 0113



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

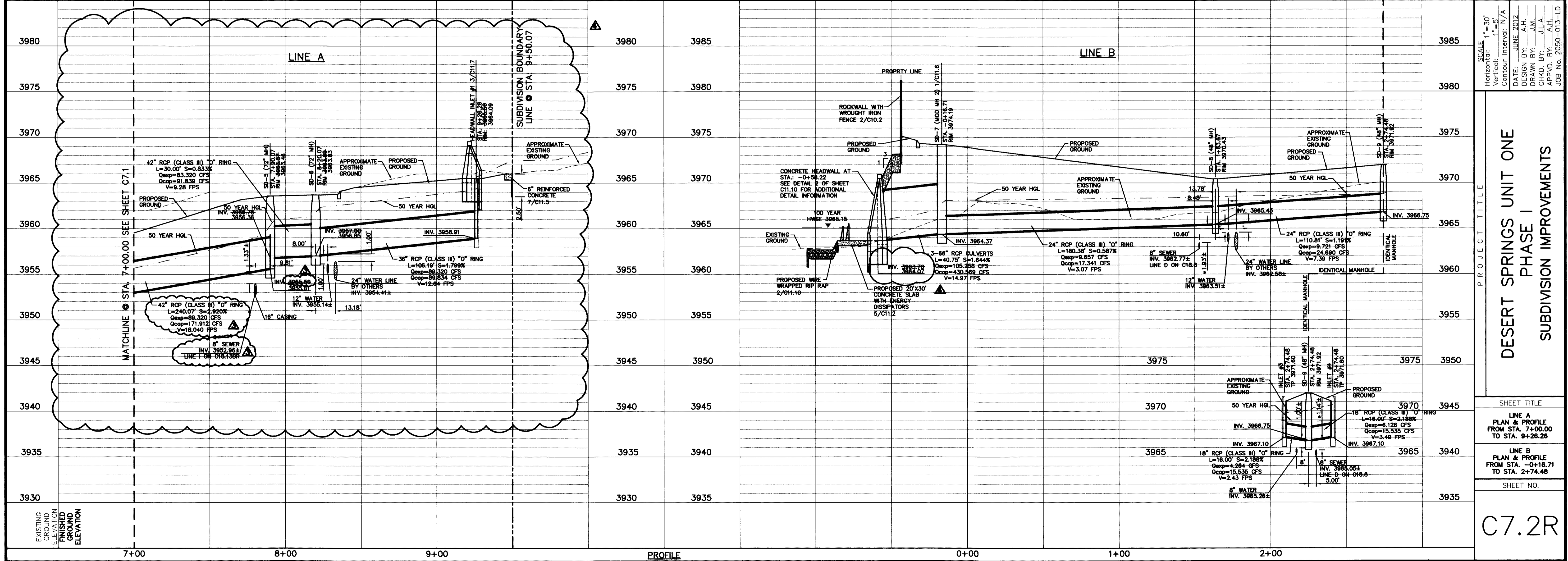
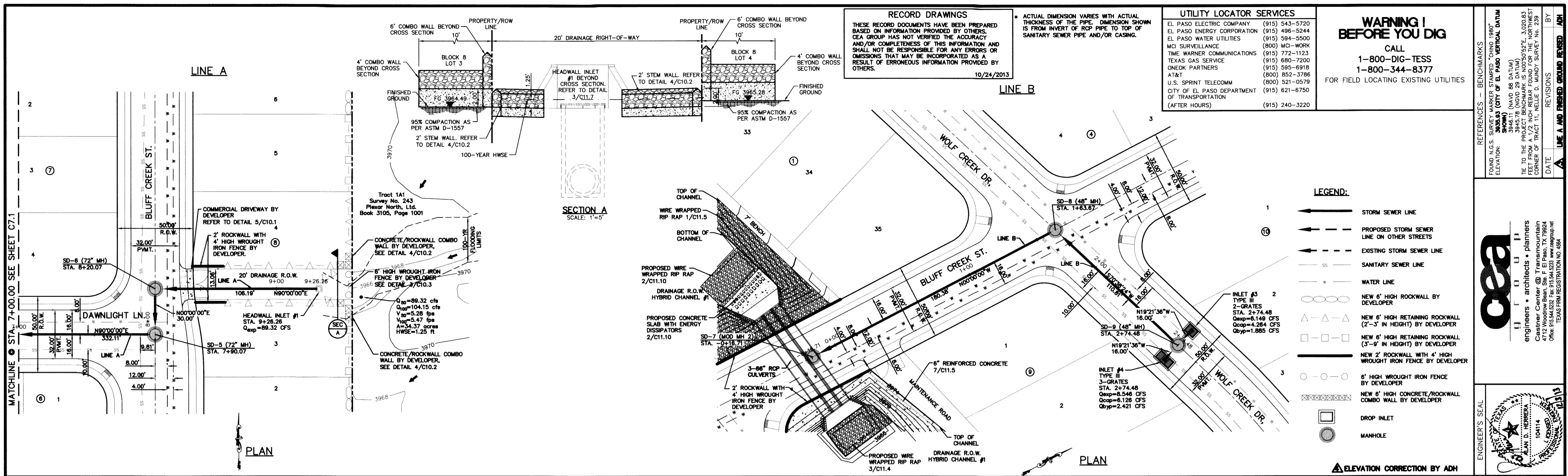
DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHECKED BY: J.L.A.
 APPROVED BY: A.H.

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**LINE A
 PLAN & PROFILE
 FROM STA. 0+21.32
 TO STA. 7+00.00**

SHEET NO.
C7.1R

JOB No. 2050-013-LD



**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

CEA GROUP
 engineers • architects • planners
 Casper Center @ Transmountain
 4712 West Bend, Suite 104, El Paso, TX 79964
 (915) 833-1111
 TEXAS FIRM REGISTRATION NO. 4964

ENGINEER'S SEAL
 JAMES A. HARRIS
 CIVIL ENGINEER
 10414
 STATE OF TEXAS

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 LINE A
 PLAN & PROFILE
 FROM STA. 7+00.00
 TO STA. 9+26.26

SHEET TITLE
 LINE B
 PLAN & PROFILE
 FROM STA. -0+16.71
 TO STA. 2+74.48

SHEET NO.
 C7.2R

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

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.A.
APP'D. BY: J.A.
JOB NO.: 2050-013-LD

REFERENCES - BENCHMARKS
 FOUND N.A.S. SURVEY MARKER "CONING 1887"
 ELEVATION: 3956.83 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NAVD 88 DATUM)
 TIE TO THE PROJECT BENCHMARK IS 10050.52', 3.02083 FEET FROM A 1/2" INCH BENCHMARK FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. WINDY SURVEY NO. 239
 DATE: _____ BY: _____
 REVISIONS: _____

* THE CONCRETE PIPE ANCHOR COLLAR SHALL BE PLACED AT THE FIRST PIPE JOINT UPSTREAM FROM THE THRUST BLOCK OUTLET STRUCTURE

| 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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

**WARNING !
BEFORE YOU DIG**

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

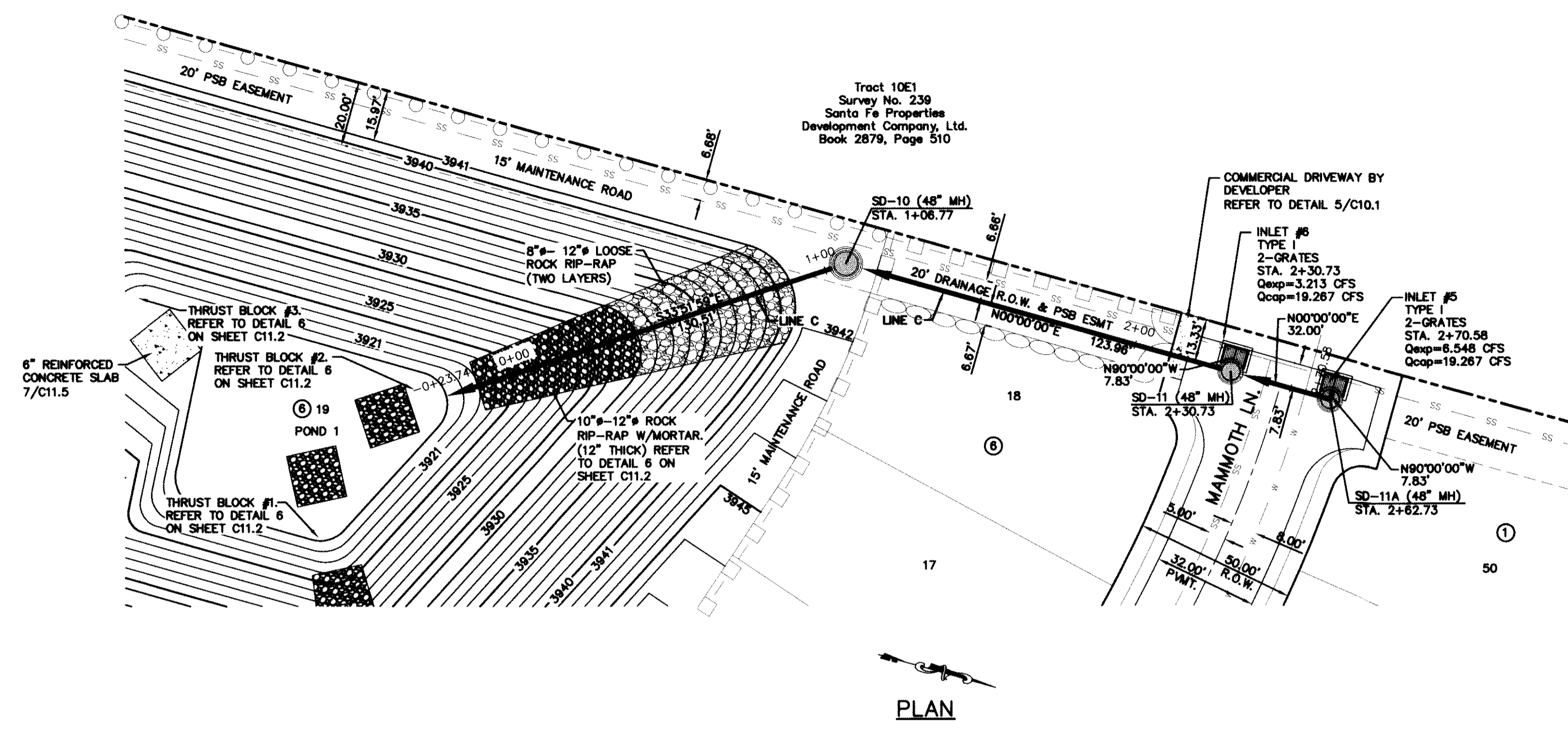
RECORD DRAWINGS

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10/24/2013

| DATE | REVISIONS | BY | APP'D |
|----------|------------------------|----|-------|
| 10/24/13 | A ELEVATION CORRECTION | | |

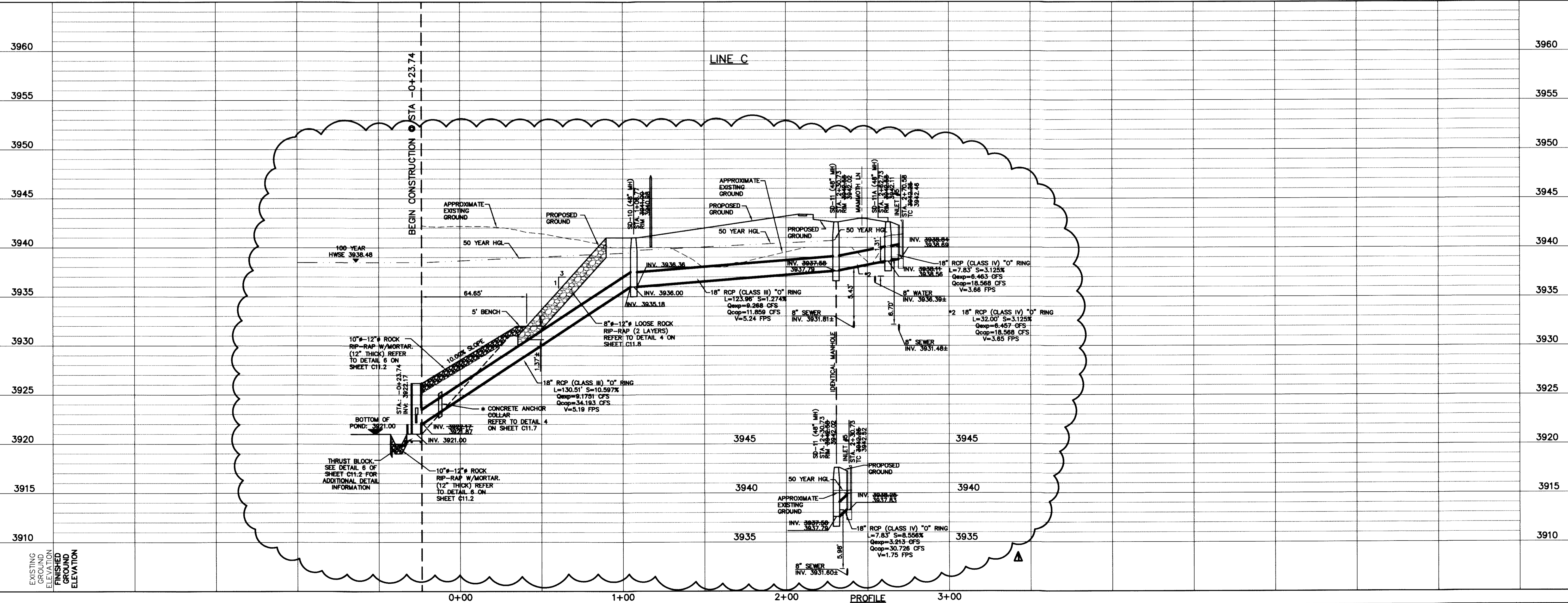
LINE C



LEGEND:

- S — STORM SEWER LINE
- - - PROPOSED STORM SEWER LINE ON OTHER STREETS
- - - EXISTING STORM SEWER LINE
- SS — SANITARY SEWER LINE
- W — WATER LINE
- ○ ○ ○ NEW 6' HIGH ROCKWALL BY DEVELOPER
- □ □ □ NEW 6' HIGH RETAINING ROCKWALL (3'-9" IN HEIGHT) BY DEVELOPER
- ○ ○ ○ 6' HIGH WROUGHT IRON FENCE BY DEVELOPER 2/C10.2
- DROP INLET
- MANHOLE

PLAN



LINE C

EXISTING ELEVATION
FINISHED GROUND ELEVATION

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

SCALE: Horizontal: 1"=30'
Vertical: 1"=5'
Contour Interval: 1V/4

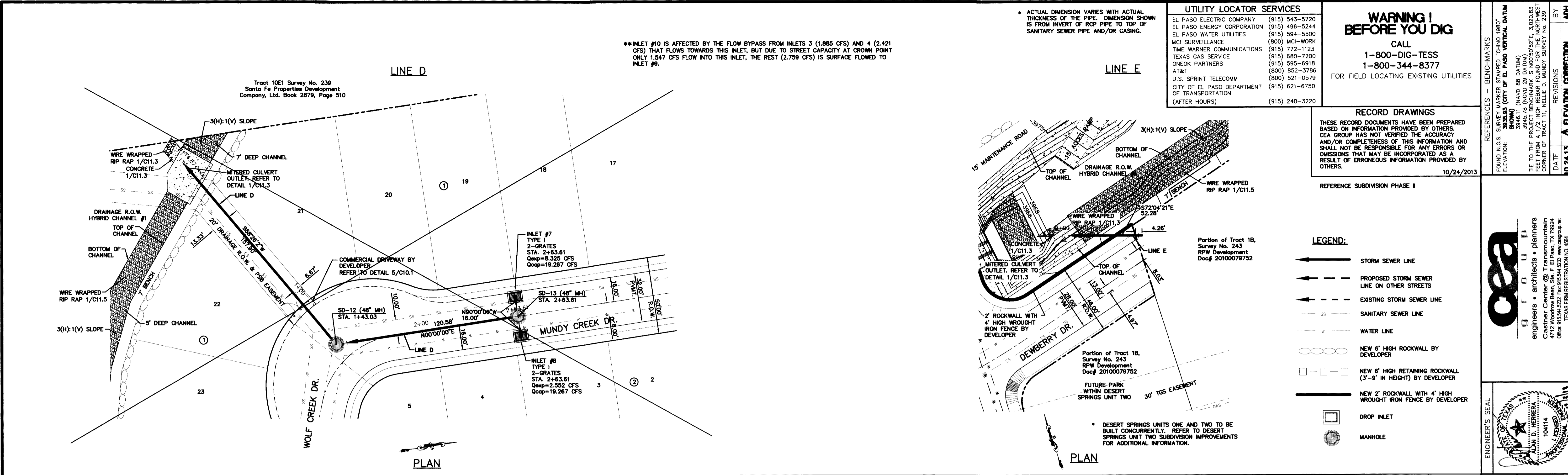
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: A.H.

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**LINE C
PLAN & PROFILE
FROM STA. -0+23.74
TO STA. 2+70.58**

SHEET NO.
C7.3

ENGINEER'S SEAL
LAW D. HERRERA
10414
REGISTERED PROFESSIONAL ENGINEER
TEXAS REGISTRATION NO. 4984



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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

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1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

RECORD DRAWINGS

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10/24/2013

- LEGEND:**
- STORM SEWER LINE
 - - - PROPOSED STORM SEWER LINE ON OTHER STREETS
 - - - EXISTING STORM SEWER LINE
 - SS SANITARY SEWER LINE
 - W WATER LINE
 - NEW 6" HIGH ROCKWALL BY DEVELOPER
 - NEW 6" HIGH RETAINING ROCKWALL (3'-9" IN HEIGHT) BY DEVELOPER
 - NEW 2" ROCKWALL WITH 4" HIGH WROUGHT IRON FENCE BY DEVELOPER
 - DROP INLET
 - MANHOLE

REFERENCES - BENCHMARKS

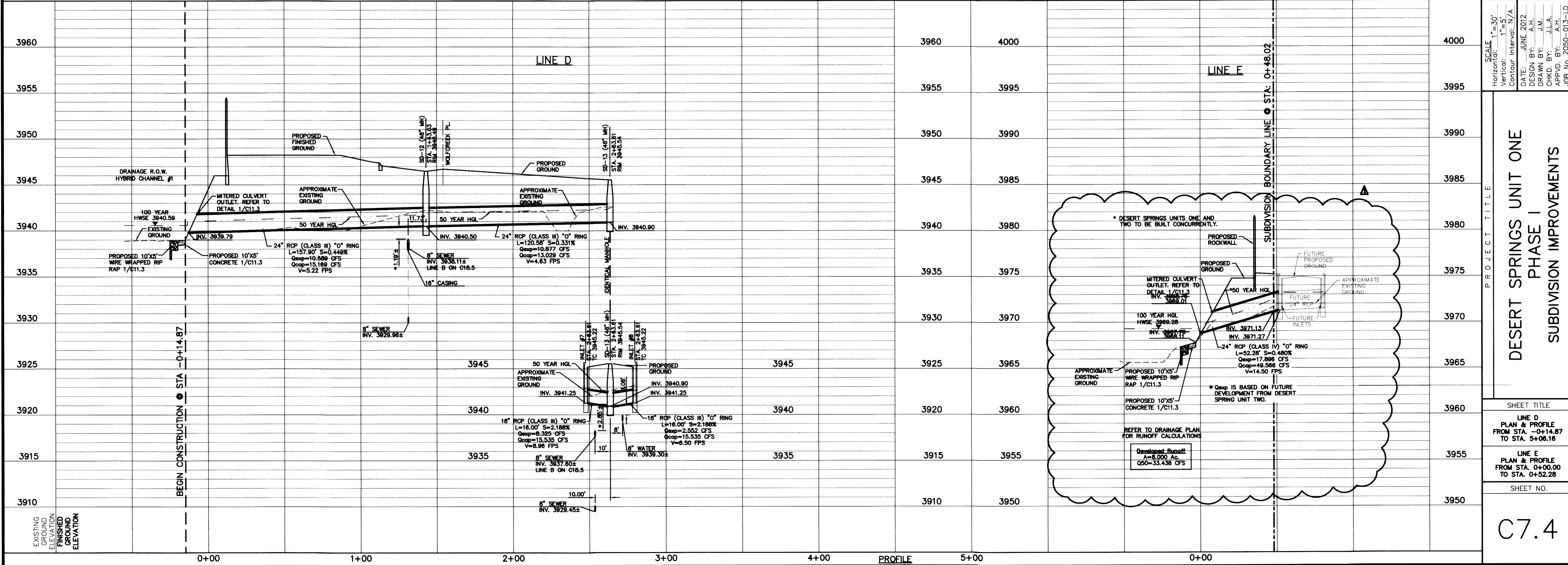
FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980" ELEVATION: 3946.11 (CITY OF EL PASO VERTICAL DATUM) 3946.11 (NAVD 88 DATUM) 3945.79 (NSD 29 DATUM) 3945.79 (NSD 83 DATUM)

SEE TO THE RIGHT FOR 1/2" INCH BEARINGS FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

DATE: 10/24/2013 BY: J.A.H.

DESERT SPRINGS UNIT ONE SUBDIVISION IMPROVEMENTS

engineers • architects • planners
Castner Center @ Transmountain
4712 Woodrow Bean, Ste. F El Paso, TX 79924
Office: 915.544.5232 Fax: 915.544.5233 www.castner.com
TEXAS PROFESSIONAL REGISTRATION NO. 566



DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

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

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPVD. BY: A.H.

JOB NO. 2009-013-LD

SHEET TITLE
LINE D PLAN & PROFILE FROM STA. 0+14.87 TO STA. 5+06.16

SHEET NO.
C7.4

NOTES: INLET 12 IS HAS CAPACITY FOR FULL DEVELOPMENT CONDITIONS. ANTICIPATED FLOW IS APPROXIMATELY 5.955 CFS.
 INLET 14 IS HAS CAPACITY FOR FULL DEVELOPMENT CONDITIONS. ANTICIPATED FLOW IS APPROXIMATELY 9.969 CFS.
 INLET 15 IS HAS CAPACITY FOR FULL DEVELOPMENT CONDITIONS. ANTICIPATED FLOW IS APPROXIMATELY 4.969 CFS.

* ACTUAL DIMENSION VARIES WITH ACTUAL THICKNESS OF THE PIPE. DIMENSION SHOWN IS FROM INVERT OF RCP PIPE TO TOP OF SANITARY SEWER PIPE AND/OR CASING.

UTILITY LOCATOR SERVICES

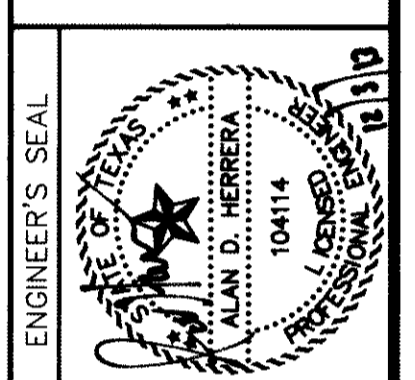
| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

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 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

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 10/24/2013

REFERENCES — BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1990"
 ELEVATION: 3946.11
 (CITY OF EL PASO VERTICAL DATUM)
 3946.11 (NAVD 88 DATUM)
 3946.78 (NGVD 29 DATUM)
 SEE TO THE RIGHT FOR A 1/2" HIGH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY NO. 239
 DATE: REVISIONS: BY: AUTH: ADH

ceagroup
 engineers • architects • planners
 Castaner Center @ Transmountain
 4712 Woodrow Bean, Ste. F El Paso, TX 79904
 (915) 534-5555, (915) 534-5555
 www.ceagroup.com
 TEXAS PROFESSIONAL REG. NO. 4681



SCALE: 1"=30'
 Horizontal: 1"=50'
 Vertical: 1"=5'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHECKED BY: J.L.A.
 APPROVED BY: A.H.
 JOB NO. 2050-013-1-D

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

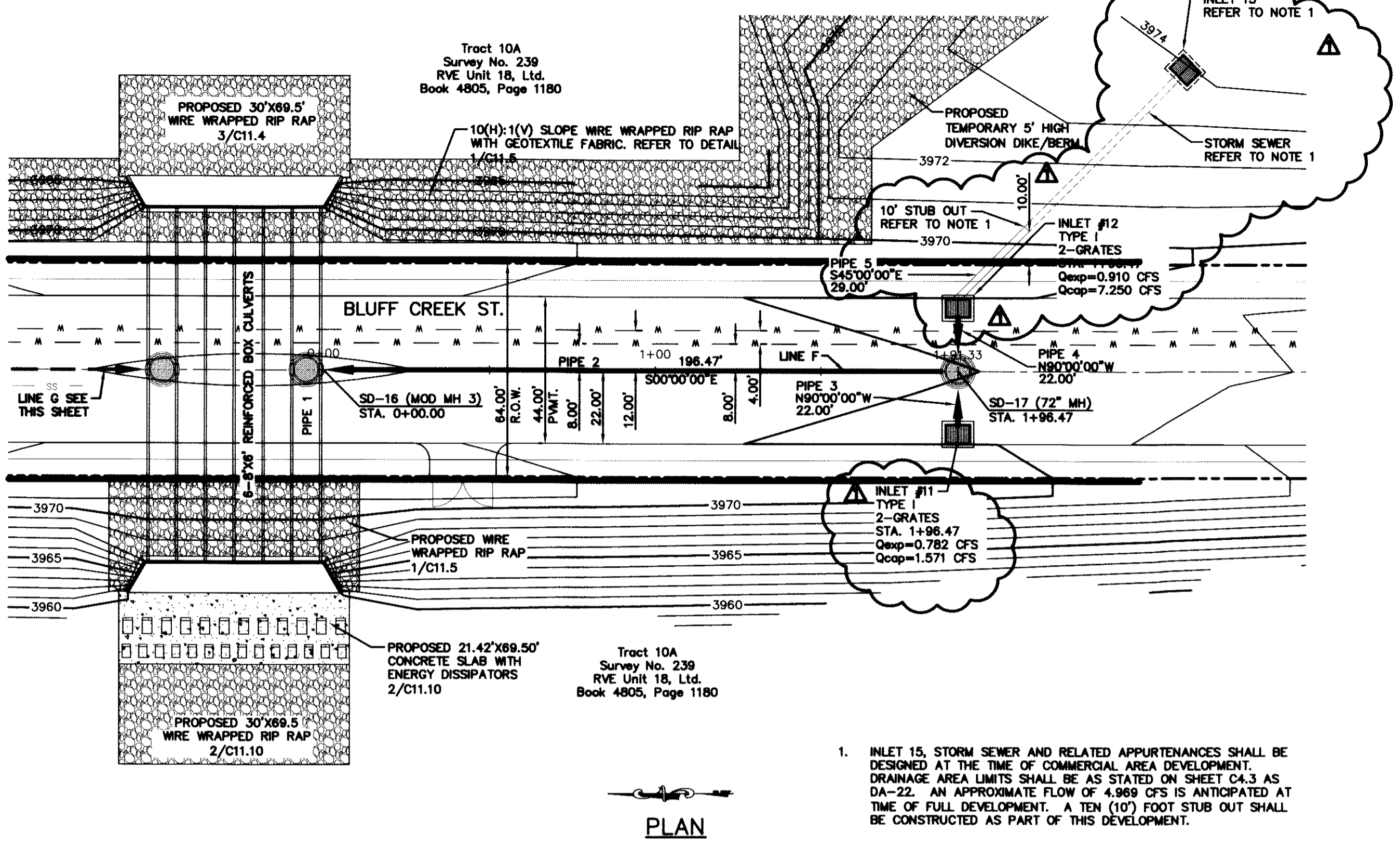
LINE F
 PLAN & PROFILE
 FROM STA. 0+00.00
 TO STA. 1+96.47

LINE G
 PLAN & PROFILE
 FROM STA. 0+00.00
 TO STA. 2+01.64

SHEET NO.

C7.5R

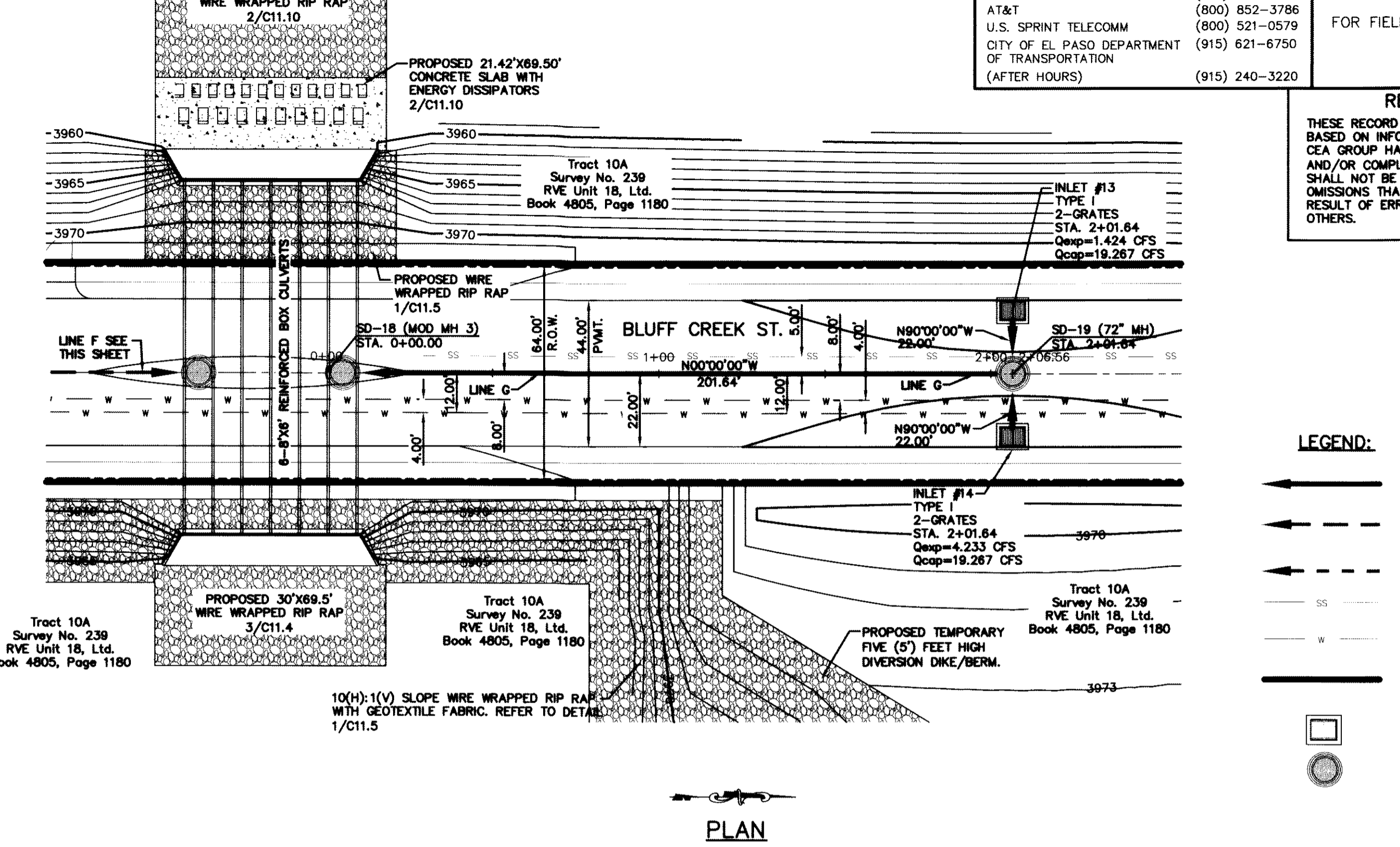
LINE F



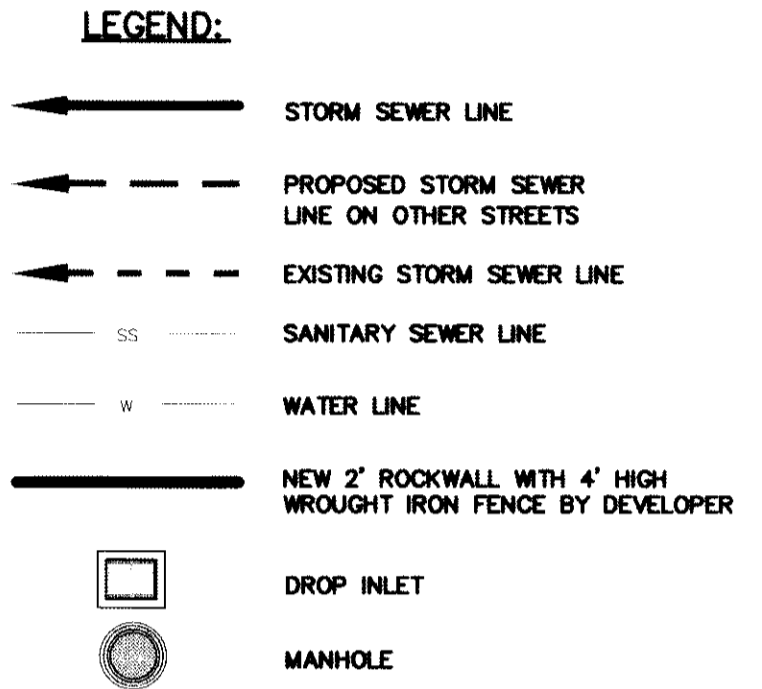
PLAN

1. INLET 15, STORM SEWER AND RELATED APPURTENANCES SHALL BE DESIGNED AT THE TIME OF COMMERCIAL AREA DEVELOPMENT. DRAINAGE AREA LIMITS SHALL BE AS STATED ON SHEET C4.3 AS OA-22. AN APPROXIMATE FLOW OF 4.969 CFS IS ANTICIPATED AT TIME OF FULL DEVELOPMENT. A TEN (10') FOOT STUB OUT SHALL BE CONSTRUCTED AS PART OF THIS DEVELOPMENT.

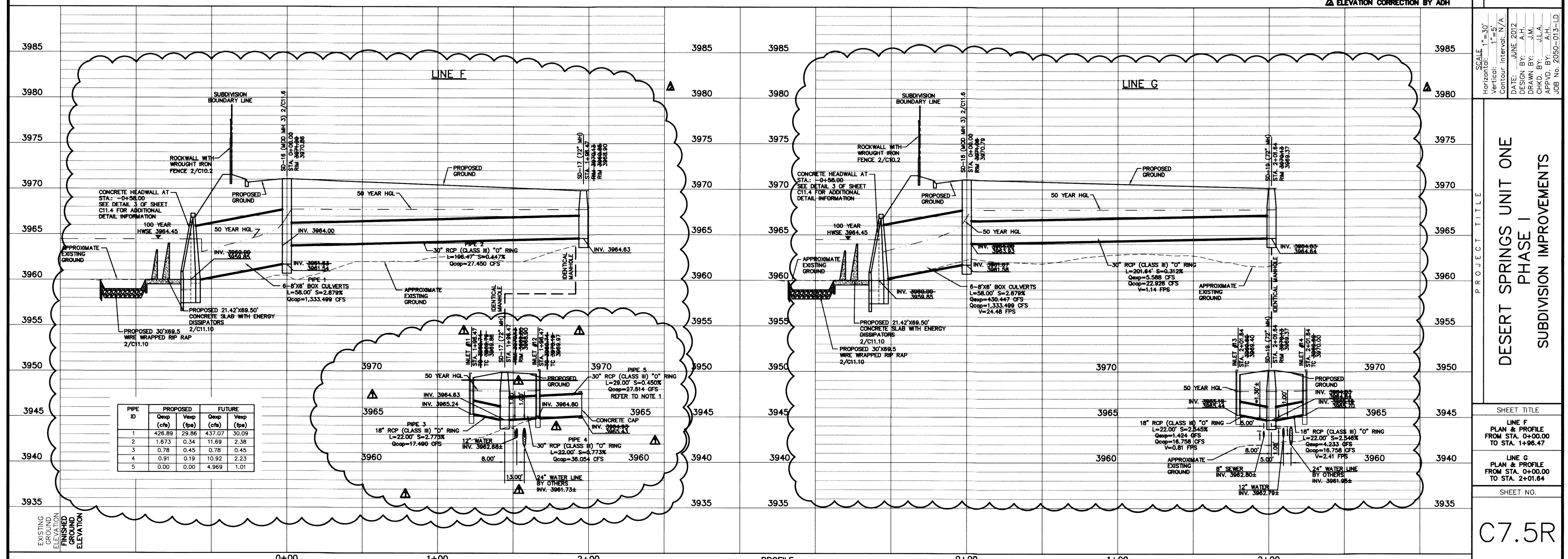
LINE G



PLAN



▲ ELEVATION CORRECTION BY ADH



Tract 10E1
Survey No. 239
Santa Fe Properties
Development Company, Ltd.
Book 2879, Page 510

Tract 10E
Survey No. 239
RVE Unit 18, Ltd.
Book 4805, Page 1180

Tract 10A
Survey No. 239
RVE Unit 18, Ltd.
Book 4805, Page 1180

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OMISSIONS THAT MAY BE INCORPORATED AS A
RESULT OF ERRONEOUS INFORMATION PROVIDED BY
OTHERS.
10/24/2013

* ACTUAL DIMENSION VARIES WITH ACTUAL
THICKNESS OF THE PIPE. DIMENSION SHOWN
IS FROM INVERT OF RCP PIPE TO TOP OF
SANITARY SEWER PIPE AND/OR CASING.
** THE CONCRETE PIPE ANCHOR COLLAR SHALL
BE PLACED AT THE FIRST PIPE JOINT
UPSTREAM FROM THE THRUST BLOCK OUTLET
STRUCTURE

| 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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

**WARNING !
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CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
FOUND N.E.S. SURVEY MARKER STAMPED "OHIO 1980"
SHOWING (NAD 83 DATUM)
ELEVATION: 3935.93 (CITY OF EL PASO VERTICAL DATUM)
3945.78 (NAD 83 DATUM)
3945.78 (NAD 83 DATUM)
TIE TO THE PROJECT BENCHMARK IS NOD505927E, 3,020.83
FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHEAST
CORNER OF TRACT 11, NELLE D. WARD SURVEY, No. 239
DATE: _____ BY: _____
REVISIONS: _____
GRADING TO PROVIDE PIPE COVER: A/AH

CEA
engineers • architects • planners
Custiner Center @ 11th & Mountain
Office 915.544.5232 Fax 915.544.5233 www.cea.com
TEXAS FIRM REGISTRATION NO. 4584

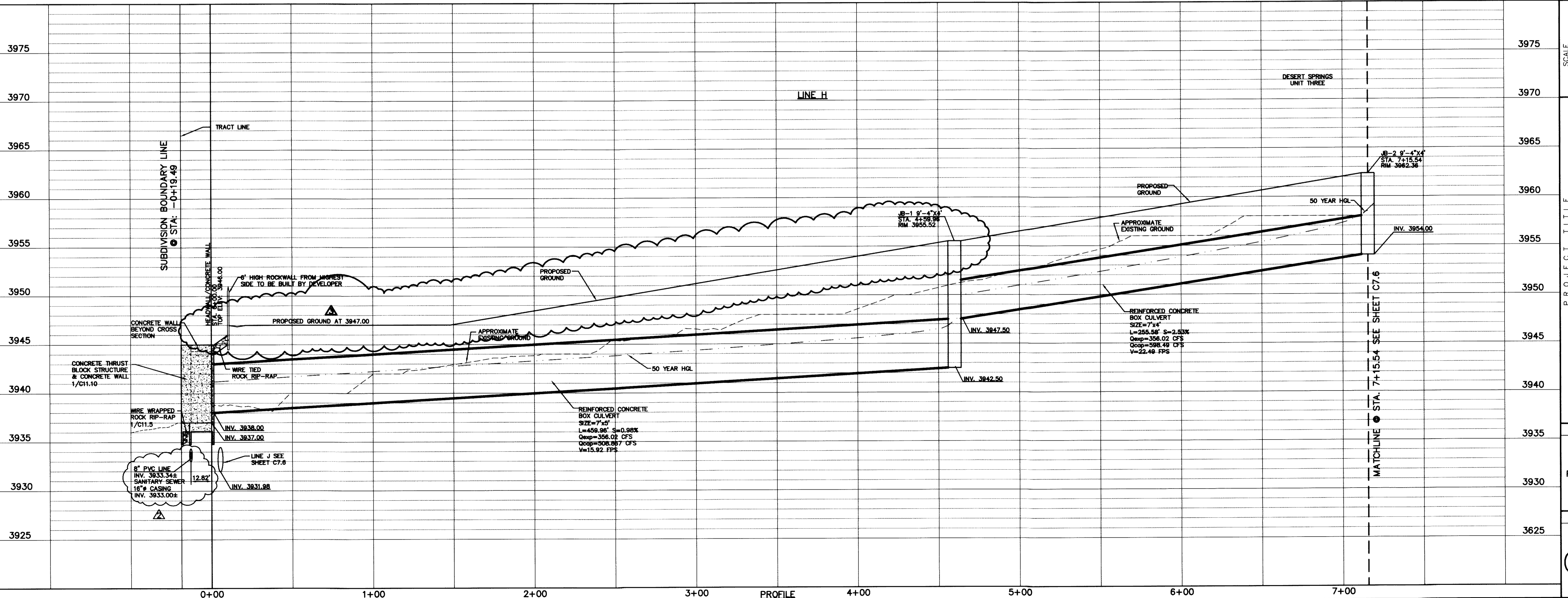


▲ SANITARY SEWER EXTENSION REVISION

PLAN

LEGEND:

- ○ ○ ○ ○ NEW 6" HIGH ROCKWALL BY DEVELOPER
- △ △ △ △ △ NEW 6" HIGH RETAINING ROCKWALL (2'-3" IN HEIGHT) BY DEVELOPER
- □ □ □ □ NEW 6" HIGH RETAINING ROCKWALL (3'-9" IN HEIGHT) BY DEVELOPER
- → → → → STORM SEWER LINE
- → → → → PROPOSED STORM SEWER LINE ON OTHER STREETS
- → → → → EXISTING STORM SEWER LINE
- DROP INLET
- MANHOLE

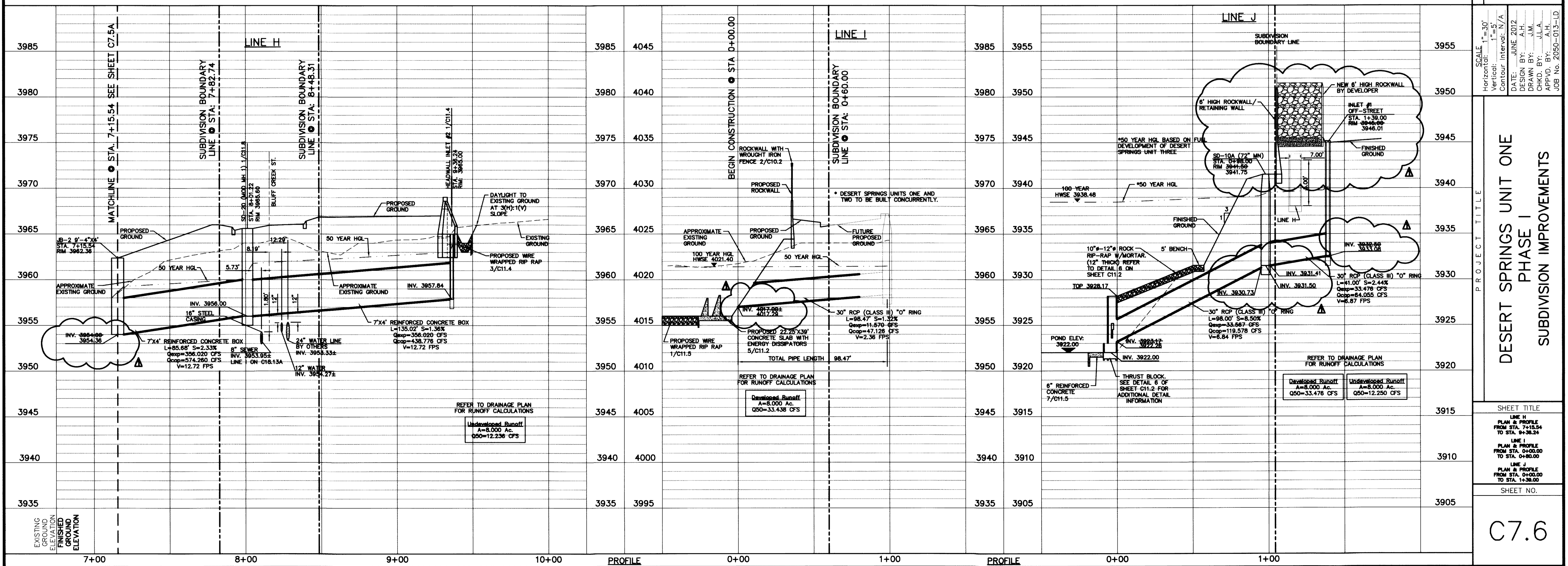
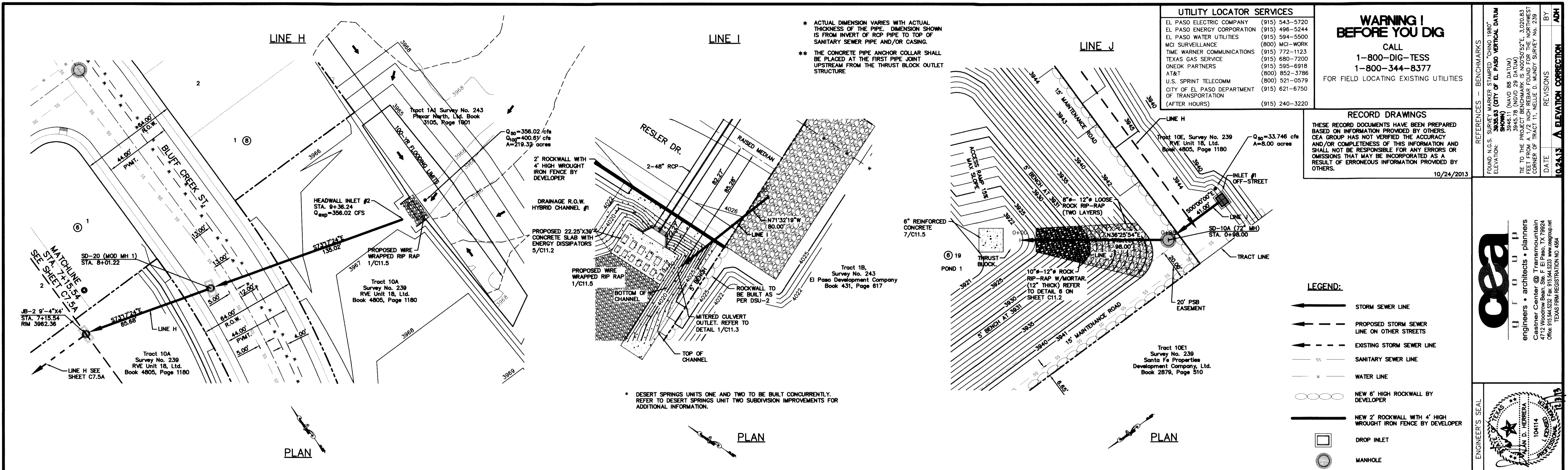


SCALE
Horizontal: 1" = 30'
Vertical: 1" = 5'
Vertical Interval: N/A
Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: A.H.
JOB No. 2050-013-LD

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**LINE H
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 7+15.54**

SHEET NO.
C7.5AR



ENGINEER'S SEAL

CEA GROUP, INC.

engineers • architects • planners

Customer Center
10101 E. El Paso Street
Suite 200
Dallas, TX 75241
Phone: 972.544.5522 Fax: 972.544.5523 www.ceagroup.com
TEXAS FIRM REGISTRATION NO. 0684

PROJECT TITLE

DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SCALE

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

DATE: JUNE 2012

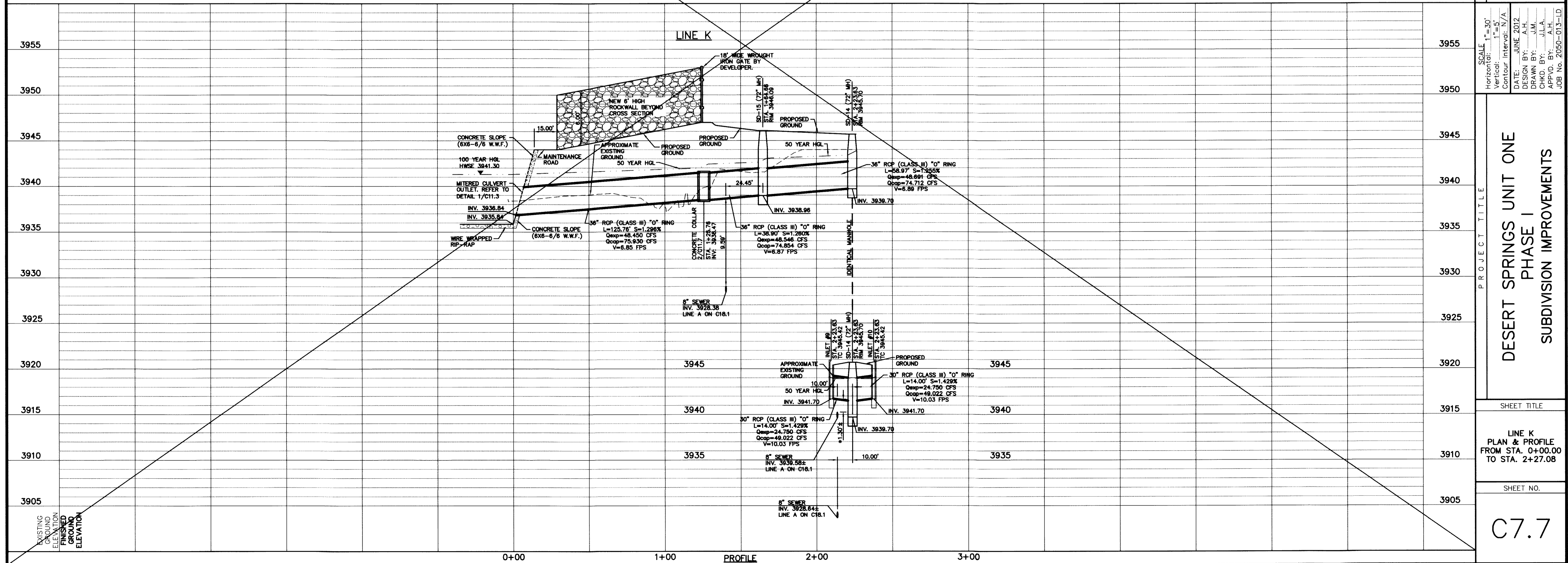
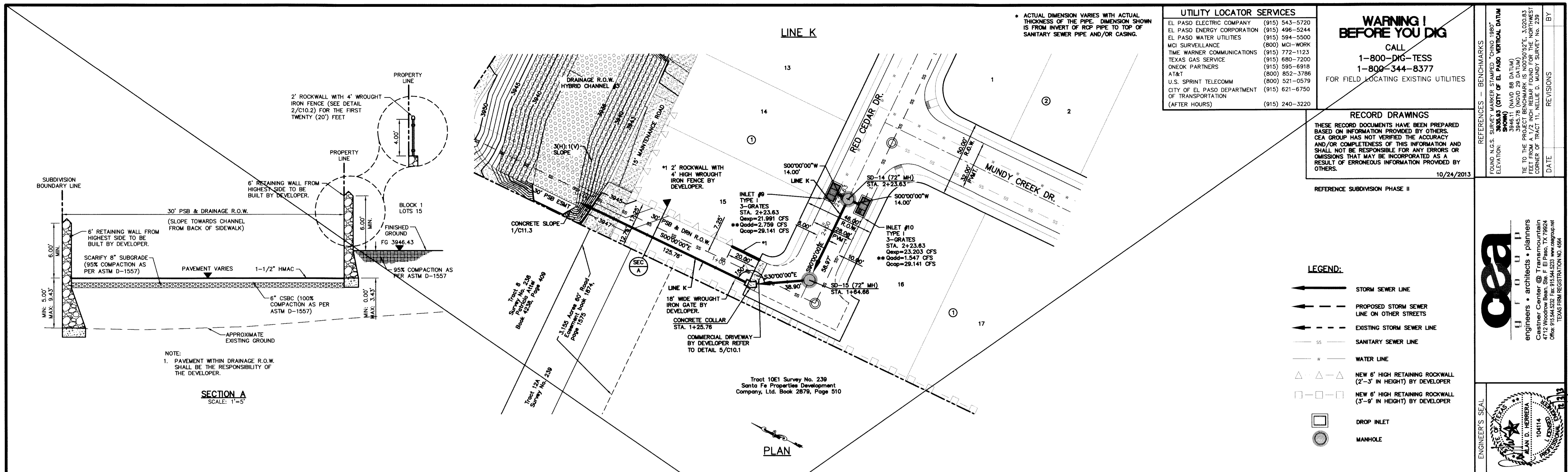
DESIGN BY: A.H.

DRAWN BY: J.M.

CHKD. BY: J.L.A.

APPROV. BY: A.H.

JOB NO. 2050-013-LD



ENGINEER'S SEAL

DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SCALE: Horizontal: 1"=30', Vertical: 1"=5'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: J.L.A.
 DRAWN BY: J.L.A.
 CHECKED BY: J.L.A.
 APP'D BY: J.L.A.
 JOB No. 2050-013-LD

PROJECT TITLE

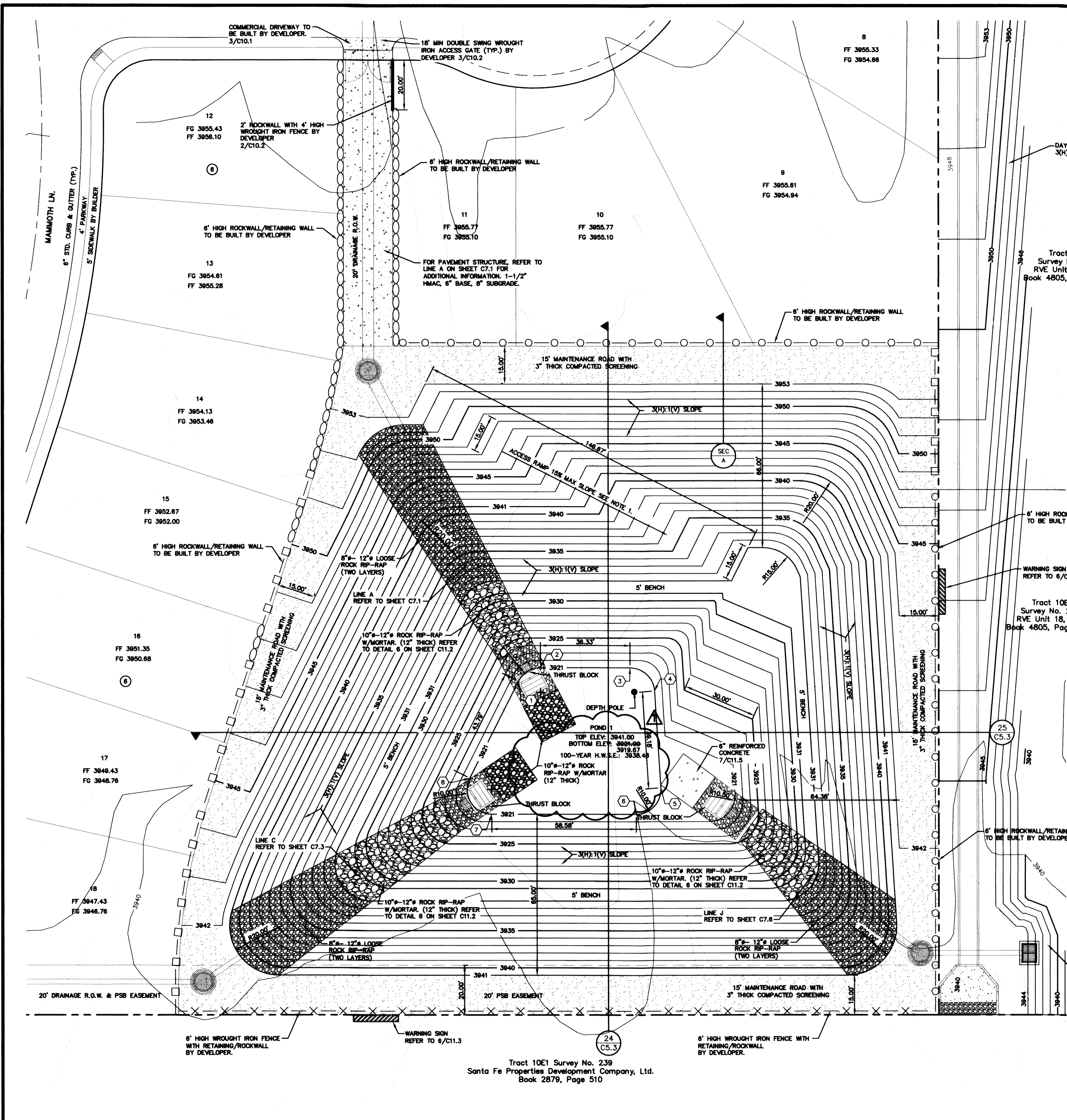
DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SHEET TITLE

LINE K
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 2+27.08

SHEET NO.

C7.7



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 10/24/2013

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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3796 |
| U.S. SPRINT TELECOM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING I BEFORE YOU DIG
 CALL 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

GENERAL NOTES

- REFERENCE SHEETS C5.3 FOR ADDITIONAL INFORMATION ON CROSS SECTIONS.
- REFERENCE SHEETS C6.18 FOR ADDITIONAL INFORMATION ON TOP OF CURB ELEVATIONS.
- A PERCOLATION TEST WITHIN THE PROPOSED POND SHALL BE PERFORMED AT THE TIME OF EXCAVATION ACCORDING TO ASTM D-5126. THIS PERCOLATION TEST SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO AND BY EPWU STORMWATER ENGINEERING. SUBSURFACE SOIL PROFILES SHALL BE PROVIDED TO A MINIMUM OF FIVE (5') FEET BELOW THE PROPOSED POND INVERT. STORMWATER SHALL PERCOLATE WITHIN SEVENTY-TWO (72) HOURS IN ACCORDANCE TO SECTION 11.4.3 OF THE CITY OF EL PASO'S DRAINAGE DESIGN MANUAL.

NOTES:

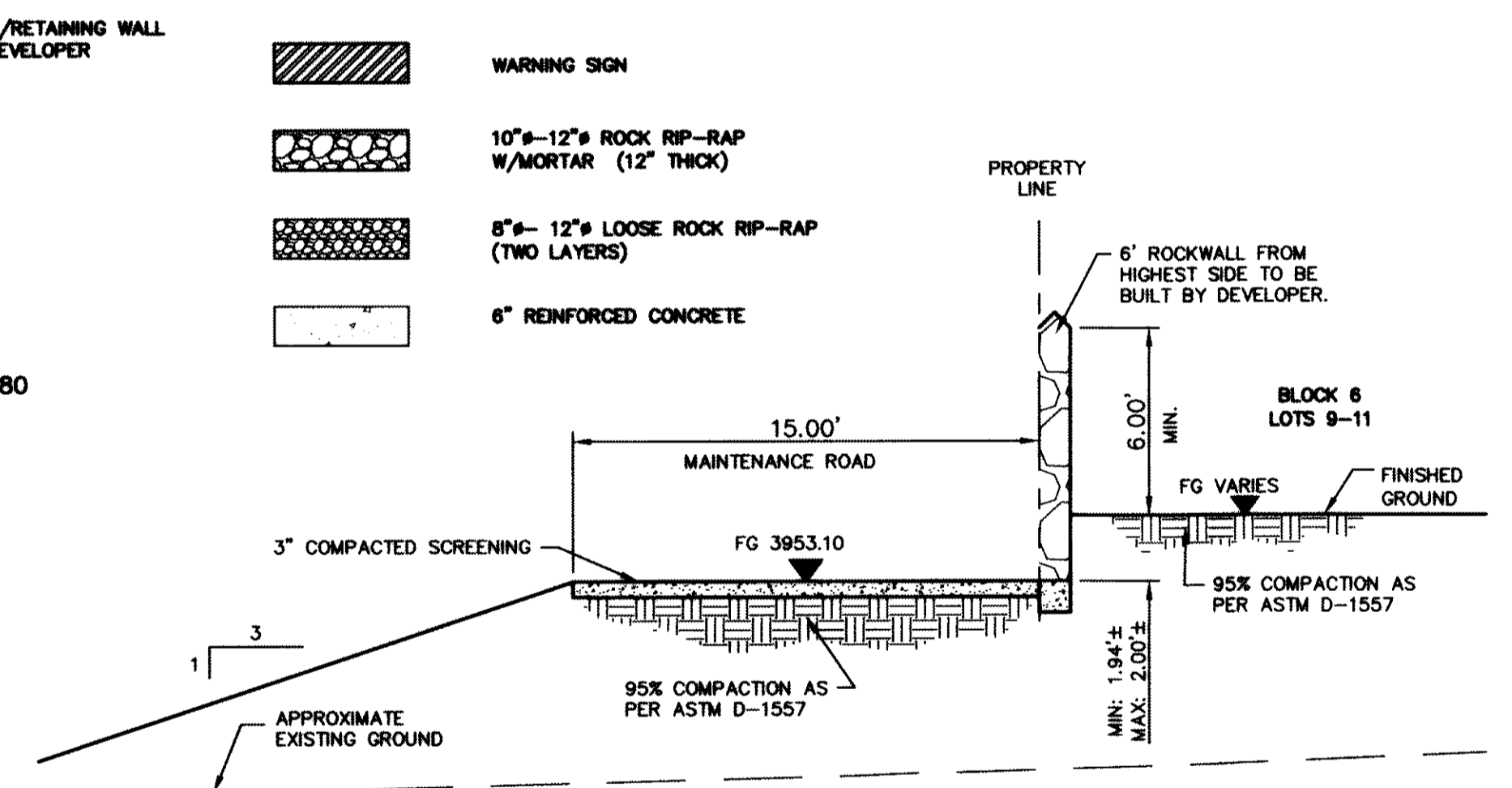
- 15' WIDE POND ACCESS RAMP SHALL HAVE A MINIMUM P.I. OF 8 WITH NO LOOSE MATERIAL AND A MINIMUM 95% COMPACTION PER ASTM-D1557.
- POND ROCKWALL/RETAINING WALL SHALL BE BUILT TO A 6' MIN. HEIGHT FROM THE HIGHEST GROUND.
- PROPOSED ROCKWALLS & RETAINING WALL LOCATIONS SHALL BE CONSTRUCTED ACCORDING TO GRADING SECTIONS.

LEGEND:

- NEW 6' HIGH RETAINING ROCKWALL (2'-3' RETAINING HEIGHT) BY DEVELOPER
- NEW 6' HIGH RETAINING ROCKWALL (3'-6' RETAINING HEIGHT) BY DEVELOPER
- 6' HIGH WROUGHT IRON FENCE WITH RETAINING/ROCKWALL BY DEVELOPER
- NEW 6' HIGH ROCKWALL (0'-2' RETAINING HEIGHT) BY DEVELOPER
- 3" THICK COMPACTED SCREENING
- WARNING SIGN
- 10" - 12" ROCK RIP-RAP W/MORTAR (12" THICK)
- 6" - 12" LOOSE ROCK RIP-RAP (TWO LAYERS)
- 6" REINFORCED CONCRETE

KEY #

| KEY # | NORTH | EAST |
|------------|-------------|-------------|
| 1 | N 9706.7376 | E 8380.9470 |
| 2 | N 9697.8108 | E 8386.4401 |
| 3 | N 9661.4278 | E 8386.4401 |
| 4 | N 9651.4972 | E 8377.0799 |
| 5 | N 9648.9904 | E 8337.9781 |
| 6 | N 9658.9716 | E 8327.3383 |
| 7 | N 9717.5485 | E 8327.3484 |
| 8 | N 9726.4737 | E 8341.8553 |
| DEPTH POLE | N 9659.7626 | E 8376.7455 |



POND 1 ENLARGEMENT PLAN

POND 1 CALCULATIONS
 100-YEAR STORM EVENT

| | | | |
|-----------|---------------|----------------------|----------------|
| A total | = 51.22 acres | TOTAL _{req} | = 7,800 AC-FT |
| Q total | = 163.30 cfs | TOTAL _{cap} | = 10,031 AC-FT |
| Q runoff | = 0.00 cfs | | |
| Q storage | = 7.6 ac-ft | | |
| Q detrain | = 3938.48 | | |

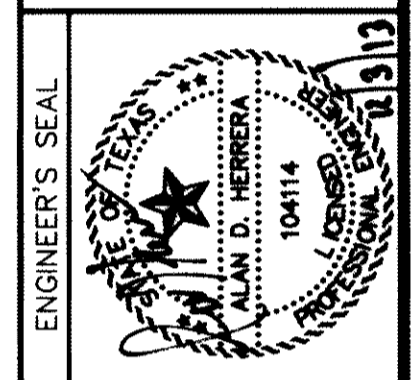
POND 1 AREAS

| CONTOUR | ACCUMULATED VOLUME (ac-ft) |
|---------|----------------------------|
| 3941 | 10.031 |
| 3940 | 9.030 |
| 3939 | 8.068 |
| 3938 | 7.204 |
| 3937 | 6.375 |
| 3936 | 5.601 |
| 3935 | 4.879 |
| 3934 | 4.208 |
| 3933 | 3.587 |
| 3932 | 3.013 |
| 3931.1 | 2.538 |
| 3931 | 2.492 |
| 3930 | 2.086 |
| 3929 | 1.720 |
| 3928 | 1.391 |
| 3927 | 1.098 |
| 3926 | 0.839 |
| 3925 | 0.613 |
| 3924 | 0.417 |
| 3923 | 0.249 |
| 3922 | 0.109 |
| 3921 | 0.000 |

DRAINAGE RUNOFF CALCULATIONS HAVE BEEN DESIGNED AND ANALYZED FOR THE OVERALL AREA AFFECTING FLOPPATHS 41, 41A AND DESERT SPRINGS DEVELOPMENT. CALCULATIONS ARE BASED FROM HYDROLOGY MODEL HEC-C-HMS (Version 3.05).
 LOSS METHOD: INITIAL AND CONSTANT
 TRANSFORM METHOD: SNYDER UNIT HYDROGRAPH
 THE HYDRAULICS/HYDROLOGY OF THE BASIN WAS DESIGNED TO 3921 ELEVATION. THE BASIN HAS AN ADDITIONAL 2.431 AC-FT POND CAPACITY STORAGE FOR POSSIBLE SILT ACCUMULATION/STORAGE.
 0.012 ac-ft/acre (SAND & SILT)
 (0.012 ac-ft/acre)(51.22 acres)
 SILT VOLUME = 0.615 ac-ft
 Q_{detrain} + Q_{storage} = 7,800 + 0.615 = 8,215 AC-FT

REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "OHIO 1980"
 3946.03 (CITY OF EL PASO VERTICAL DATUM)
 ELEVATION:
 3946.11 (NAVD 88 DATUM)
 3945.78 (NAVD 29 DATUM)
 THE PROJECT BENCHMARK IS NGS9592.1 1,026.85
 CORNER OF TRACT 11, NELLIE D. WANDY SURVEY, NO. 239
 DATE: REVISIONS: BY: **AM**

CEA
 ENGINEERS • ARCHITECTS • PLANNERS
 Customer Center @ Transmountain
 4712 Woodrow Bean Ste. F El Paso, TX 78924
 Office 915.544.5322 Fax 915.544.6203 www.ceagroup.net
 TEXAS FIRM REGISTRATION NO. 0564



SCALE: 1" = 20'
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHECKED BY: J.L.A.
 APPROVED BY: A.H.
 JOB NO. 2050-013-ID

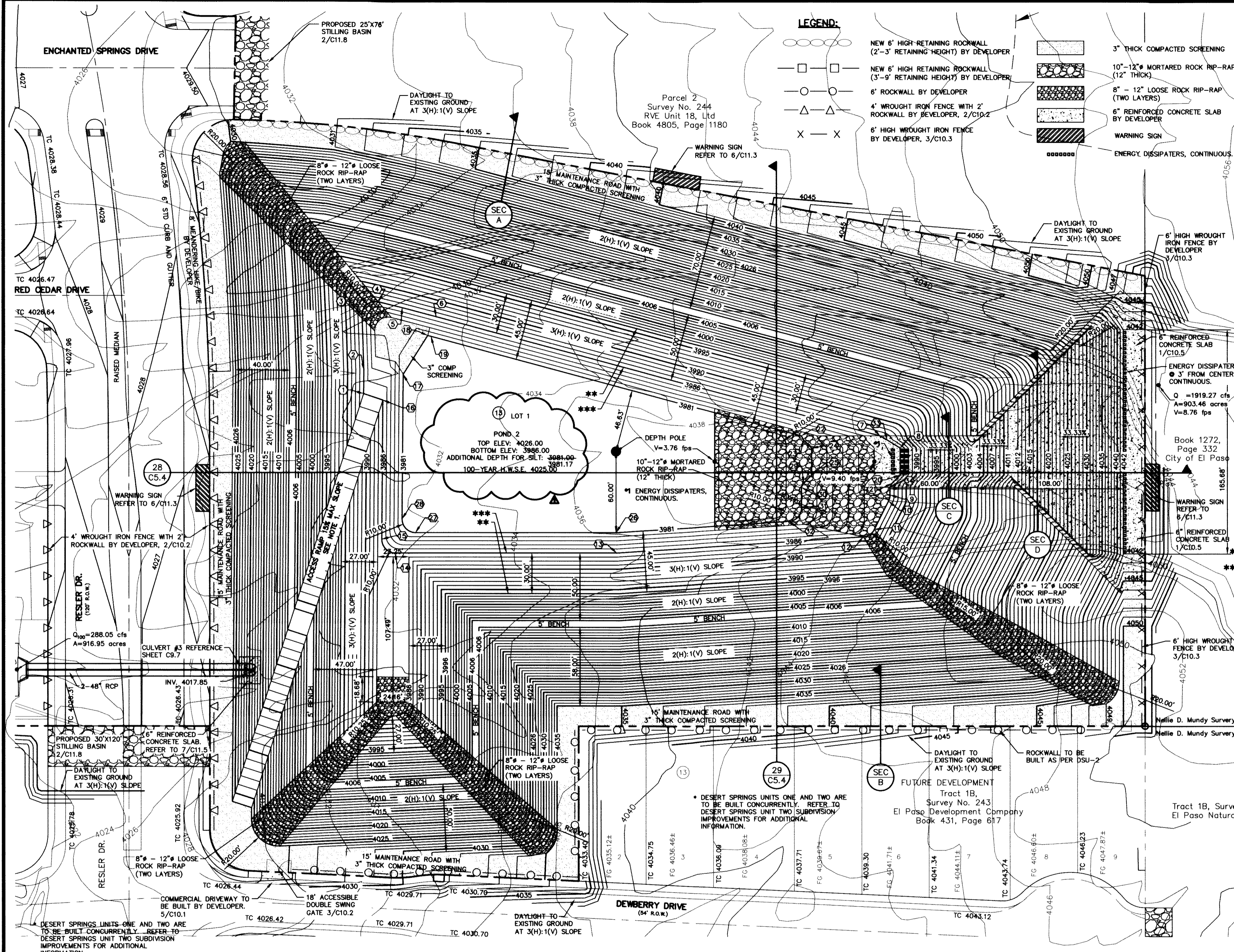
PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**POND 1
 ENLARGEMENT
 PLAN**

SHEET NO.

C8.1

Tract 10E1 Survey No. 239
 Santa Fe Properties Development Company, Ltd.
 Book 2879, Page 510



- LEGEND:**
- NEW 6' HIGH RETAINING ROCKWALL (2'-3' RETAINING HEIGHT) BY DEVELOPER
 - NEW 6' HIGH RETAINING ROCKWALL (3'-9' RETAINING HEIGHT) BY DEVELOPER
 - 6' ROCKWALL BY DEVELOPER
 - 4' WROUGHT IRON FENCE WITH 2' ROCKWALL BY DEVELOPER, 2/C10.2
 - 6' HIGH WROUGHT IRON FENCE BY DEVELOPER, 3/C10.3
 - 3" THICK COMPACTED SCREENING
 - 10"-12" MORTARED ROCK RIP-RAP (12" THICK)
 - 8" - 12" LOOSE ROCK RIP-RAP (TWO LAYERS)
 - 6" REINFORCED CONCRETE SLAB BY DEVELOPER
 - WARNING SIGN
 - ENERGY DISSIPATORS, CONTINUOUS

POND 2 AREAS

| CONTOUR | ACCUMULATED VOLUME (ac-ft) |
|---------|----------------------------|
| 4028.00 | 123.967 |
| 4025.00 | 118.979 |
| 4024.00 | 114.092 |
| 4023.00 | 109.305 |
| 4022.00 | 104.618 |
| 4021.00 | 100.000 |
| 4020.00 | 95.540 |
| 4019.00 | 91.147 |
| 4018.00 | 86.860 |
| 4017.00 | 82.648 |
| 4016.00 | 78.540 |
| 4015.00 | 74.527 |
| 4014.00 | 70.605 |
| 4013.00 | 66.776 |
| 4012.00 | 63.037 |
| 4011.00 | 59.388 |
| 4010.00 | 55.829 |
| 4009.00 | 52.368 |
| 4008.00 | 48.974 |
| 4007.00 | 45.677 |
| 4006.00 | 42.465 |
| 4005.00 | 39.337 |
| 4004.00 | 36.291 |
| 4003.00 | 33.327 |
| 4002.00 | 30.442 |
| 4001.00 | 27.637 |
| 4000.00 | 25.000 |
| 3999.00 | 22.528 |
| 3998.00 | 20.188 |
| 3997.00 | 17.980 |
| 3996.00 | 15.888 |
| 3995.00 | 13.900 |
| 3994.00 | 12.009 |
| 3993.00 | 10.285 |
| 3992.00 | 8.709 |
| 3991.00 | 7.274 |
| 3990.00 | 5.978 |
| 3989.00 | 4.809 |
| 3988.00 | 3.766 |
| 3987.00 | 2.840 |
| 3986.00 | 2.021 |
| 3985.00 | 1.309 |
| 3984.00 | 0.704 |
| 3983.00 | 0.204 |
| 3982.00 | 0.000 |

UTILITY LOCATOR SERVICES

| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 498-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING!
BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

KEY # NORTH EAST

| | | | | | |
|----|--------------|--------------|----|--------------|--------------|
| 1 | N 10530.2775 | E 11000.1074 | 2 | N 10470.2422 | E 11398.1497 |
| 3 | N 10547.7381 | E 11000.2551 | 4 | N 10464.2422 | E 11392.1495 |
| 5 | N 10587.9717 | E 10998.9514 | 6 | N 10499.2422 | E 11325.1016 |
| 7 | N 10598.0978 | E 11011.2769 | 8 | N 10496.2422 | E 11328.6015 |
| 9 | N 10593.8712 | E 11028.8888 | 10 | N 10490.2422 | E 11332.6017 |
| 11 | N 10587.1822 | E 11053.9843 | 12 | N 10470.2422 | E 11332.6017 |
| 13 | N 10499.2422 | E 11383.2301 | 14 | N 10427.7206 | E 11187.5248 |
| 15 | N 10490.2422 | E 11398.1497 | 16 | N 10427.7206 | E 11038.6350 |
| 17 | N 10455.5386 | E 11390.6496 | 18 | N 10437.8052 | E 11028.6353 |
| 19 | N 10451.0385 | E 11389.5799 | 20 | N 10464.2422 | E 11326.6015 |
| 21 | N 10430.1025 | E 11379.0300 | 22 | N 10461.2422 | E 11325.1016 |
| 23 | N 10424.6237 | E 11370.7497 | 24 | N 10446.0519 | E 11325.1016 |
| 25 | N 10412.7206 | E 11188.0128 | 26 | N 10436.0730 | E 11315.7516 |
| 27 | N 10412.7206 | E 11023.5075 | 28 | N 10496.2422 | E 11388.4744 |
| 29 | N 10422.8052 | E 11013.5079 | 30 | N 10461.2422 | E 11390.6496 |
| 31 | N 10525.6566 | E 11014.3779 | | | |

DEPTH POLE: N 10487.7206 E 11187.5248

- GENERAL NOTES**
- REFERENCE SHEETS C5.4 FOR ADDITIONAL INFORMATION ON CROSS SECTIONS.
 - REFERENCE SHEETS C6.1 FOR ADDITIONAL INFORMATION ON TOP OF CURB ELEVATIONS.
 - A PERCOLATION TEST WITHIN THE PROPOSED POND SHALL BE PERFORMED AT THE TIME OF EXCAVATION ACCORDING TO ASTM D-5126. THIS PERCOLATION TEST SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO AND BY EPMU STORMWATER ENGINEERING. SUBSURFACE SOIL PROFILES SHALL BE PROVIDED TO A MINIMUM OF FIVE (5') FEET BELOW THE PROPOSED POND INVERT. STORMWATER SHALL PERCOLATE WITHIN SEVENTY-TWO (72) HOURS IN ACCORDANCE TO SECTION 11.4.3 OF THE CITY OF EL PASO'S DRAINAGE DESIGN MANUAL.

NEW POND 2 CALCULATIONS
100-YEAR STORM EVENT

| | |
|---------------------------|--------------------------------------|
| A total = 910.18 acres | |
| Q inflow = 1924.65 cfs | TOTAL _{req} = 119.100 AC-FT |
| Q outflow = 274.46 cfs | |
| Q storage = 1181.00 ac-ft | TOTAL _{cap} = 123.963 AC-FT |
| Q detention = 4025.00 | |

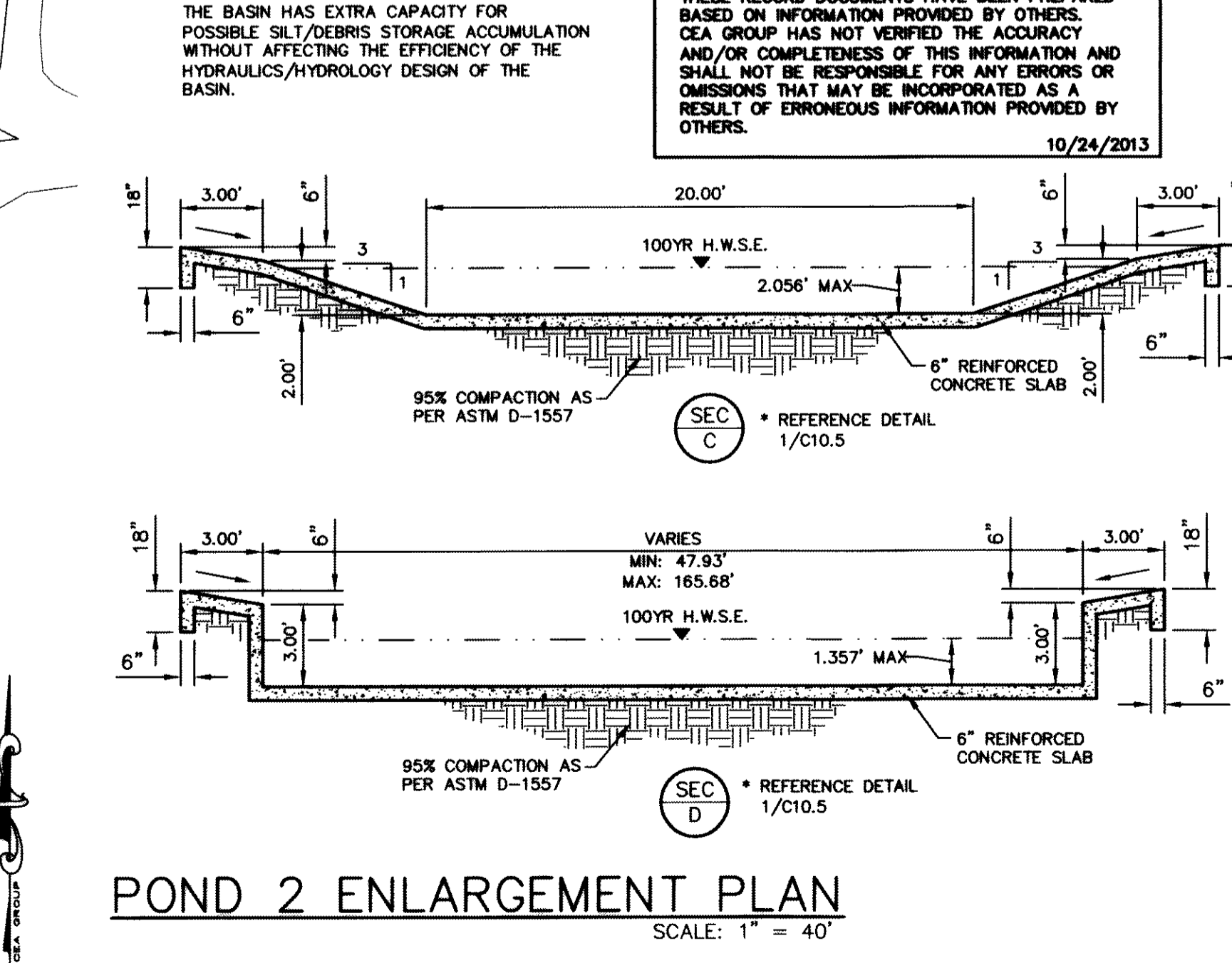
THE BASIN HAS EXTRA CAPACITY FOR POSSIBLE SILT/DEBRIS STORAGE ACCUMULATION WITHOUT AFFECTING THE EFFICIENCY OF THE HYDRAULICS/HYDROLOGY DESIGN OF THE BASIN.

RECORD DRAWINGS
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

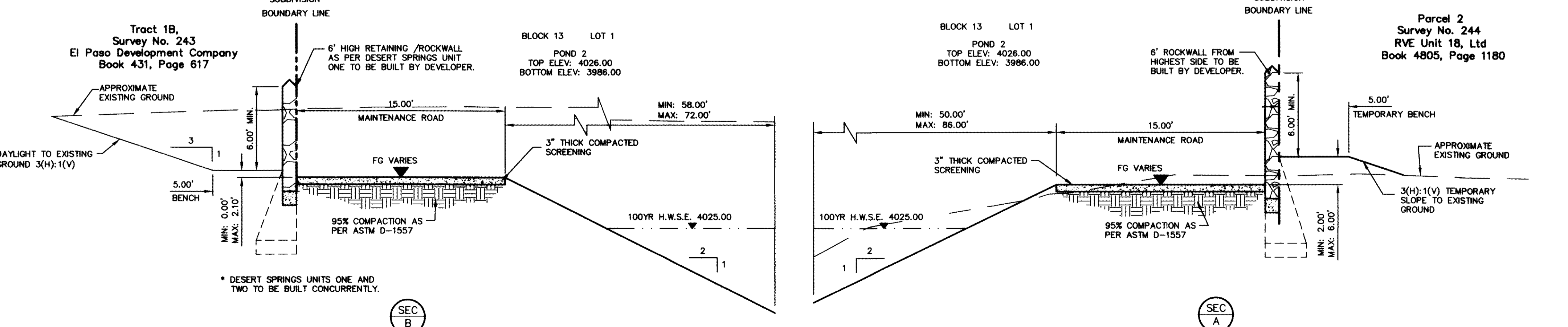
10/24/2013

NEW POND 2 SILT AREAS

| CONTOUR | ACCUMULATED VOLUME (ac-ft) |
|---------|----------------------------|
| 3986.00 | 4.856 |
| 3985.00 | 3.741 |
| 3984.00 | 2.697 |
| 3983.00 | 1.725 |
| 3982.00 | 0.827 |
| 3981.00 | 0.000 |



POND 2 ENLARGEMENT PLAN
SCALE: 1" = 40'



DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

SHEET TITLE
POND 2 ENLARGEMENT PLAN

SHEET NO.
C8.2

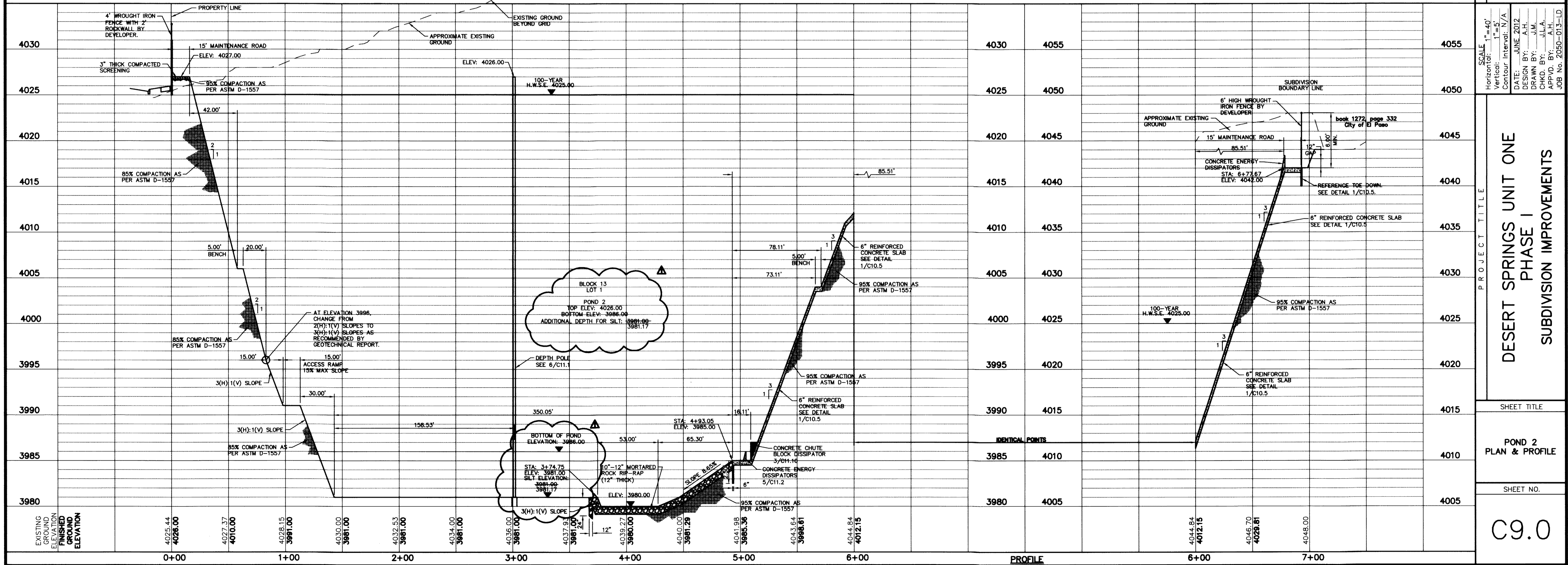
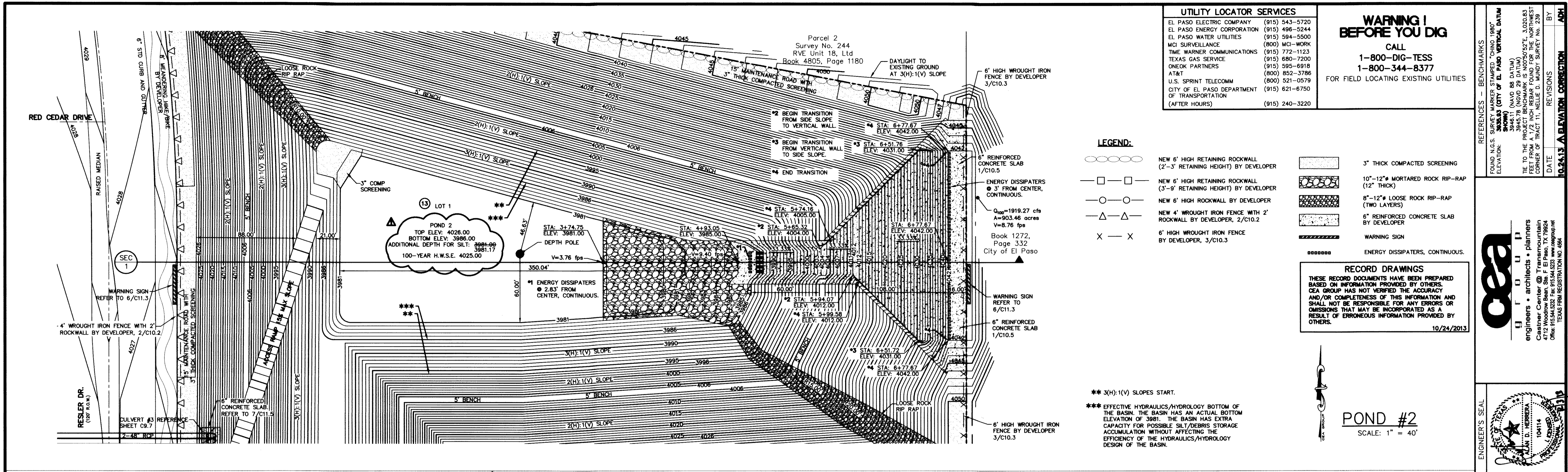
PROJECT TITLE
DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: A.H.
JOB NO. 2009-013-1D

ENGINEER'S SEAL
ALAN D. HERRERA
Professional Engineer
No. 000414
State of Texas

REFERENCES - BENCHMARKS
FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
ELEVATION: 3948.31 (CITY OF EL PASO VERTICAL DATUM)
3945.78 (NAVD 88 DATUM)
3945.78 (NAVD 89 DATUM)
BE TO THE PROJECT BENCHMARK IS 80956552E, 3208331
CORNER OF TRACT 11, NELLE D. MUNDY SURVEY NO. 239
DATE: 10/24/13
REVISIONS: BY: ELEVATION CORRECTION

UTILITY LOCATOR SERVICES
EL PASO ELECTRIC COMPANY (915) 543-5720
EL PASO ENERGY CORPORATION (915) 498-5244
EL PASO WATER UTILITIES (915) 594-5500
MCI SURVEILLANCE (800) MCI-WORK
TIME WARNER COMMUNICATIONS (915) 772-1123
TEXAS GAS SERVICE (915) 680-7200
ONEOK PARTNERS (915) 595-6918
AT&T (800) 852-3786
U.S. SPRINT TELECOMM (800) 521-0579
CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750
(AFTER HOURS) (915) 240-3220



CEA

engineers • architects • planners

Caster Center @ Transmountain
4715 Woodrow Bean Ste. F El Paso, TX 79904
Office Phone Registration No. 458

10414

10413 A REVISION CORRECTION

DATE: 10/24/2013

BY: [Signature]

REVISIONS: [Table]

REFERENCES - BENCHMARKS

FOUND (I.G. S. SURVEY) PER PLAN "SUBDIVISION IMPROVEMENTS" SHEET C9.0 (CITY OF EL PASO RECORD DRAWING SHOWING)

ELEVATION: 3946.11 (NAVD 88 DATUM)

TIE TO THE PROJECT BENCHMARK IS 10025.027E, 3.02083 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

DATE: 10/24/2013

BY: [Signature]

REVISIONS: [Table]

10413 A REVISION CORRECTION

DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

POND 2 PLAN & PROFILE

SHEET NO. C9.0

SCALE: 1" = 40'

Horizontal: 1" = 40'

Vertical: 1" = 5'

Contour Interval: N/A

DATE: JUNE 2012

DESIGN BY: A.H.

DRAWN BY: J.M.

CHKD BY: J.L.A.

APP'D BY: A.H.

JOB No. 20050-013-LD

RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013

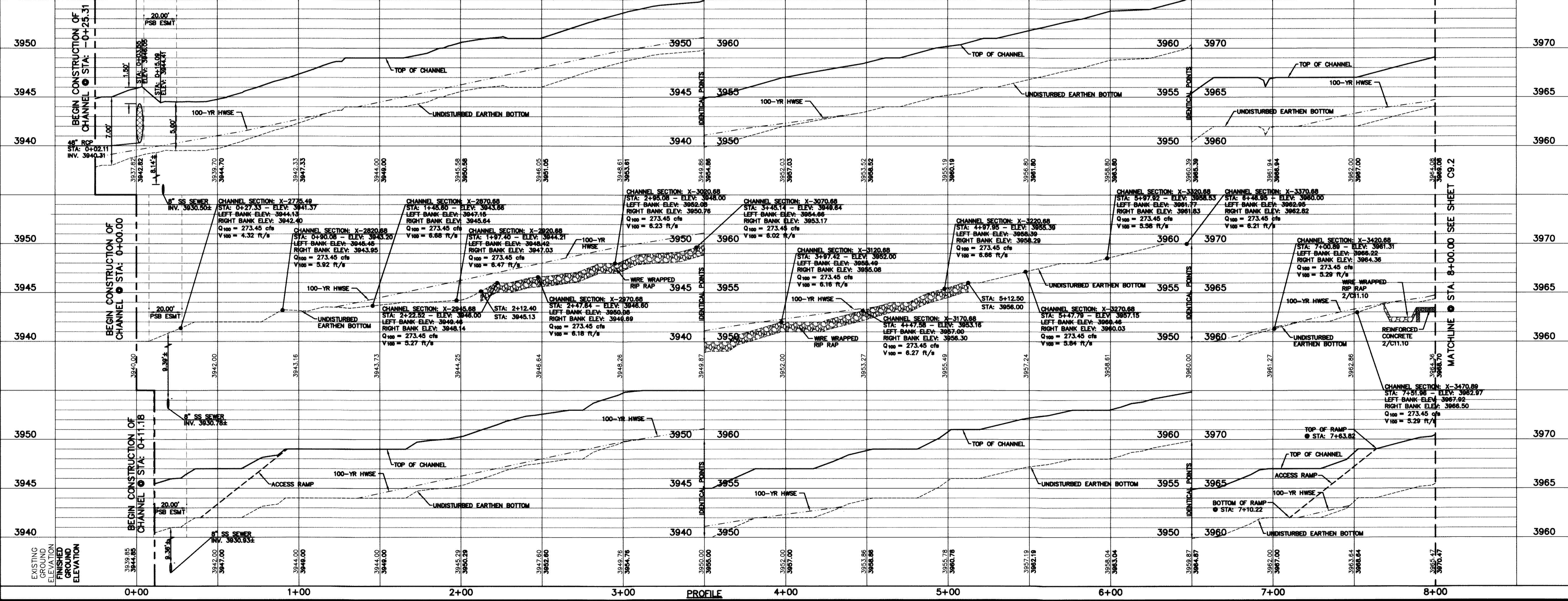
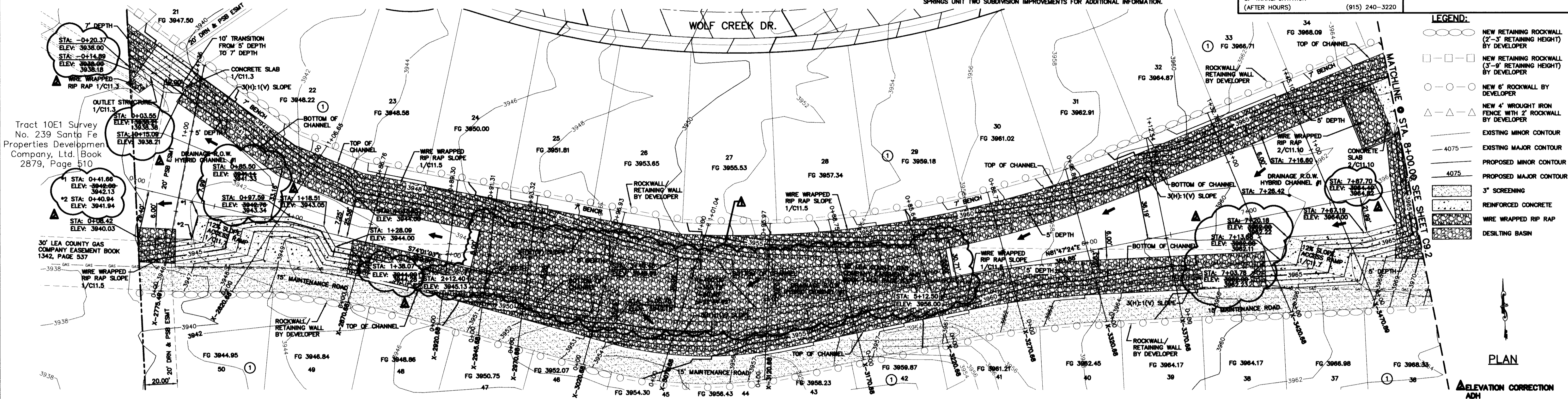
- GENERAL NOTES:**
1. THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN 30' TOS EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.
 2. REFER TO CLOMR FOR A MORE DETAILED INFORMATION (11-08-2380R).
 3. DESERT SPRINGS UNIT ONE AND TWO SHALL BE BUILT CONCURRENTLY. REFER TO DESERT SPRINGS UNIT TWO SUBDIVISION IMPROVEMENTS FOR ADDITIONAL INFORMATION.

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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

- LEGEND:**
- NEW RETAINING ROCKWALL (2'-3' RETAINING HEIGHT) BY DEVELOPER
 - NEW RETAINING ROCKWALL (3'-9' RETAINING HEIGHT) BY DEVELOPER
 - NEW 6" ROCKWALL BY DEVELOPER
 - NEW 4" WROUGHT IRON FENCE WITH 2" ROCKWALL BY DEVELOPER
 - EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - 3" SCREENING
 - REINFORCED CONCRETE
 - WIRE WRAPPED RIP RAP
 - DESILTING BASIN



REFERENCES - BENCHMARKS

FOUND N.S.S. SURVEY MARKER STAMPED "NOV 1888" ELEVATION: 3945.83 (CITY OF EL PASO VERTICAL DATUM SHOW) 3946.11 (NAVD 88 DATUM)

TIE TO THE PROJECT BENCHMARK IS N0050527E, 3.02083 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY NO. 239

DATE: _____ REVISIONS: _____ BY: _____

ENGINEER'S SEAL

CEA GROUP
 engineers • architects • planners
 Caster Center @ Transmountain
 4712 W. McPherson, Suite 100, El Paso, TX 79962
 One-Fifth Century Plaza, Suite 1000, El Paso, TX 79962
 TEXAS FIRM REGISTRATION NO. 484

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 HYBRID CHANNEL #1
 PLAN & PROFILE
 FROM STA. 0+00.00
 TO STA. 8+00.00

(SHEET 1 OF 6)
 SHEET NO. C9.1R

Tract 10E1 Survey
 No. 239 Santa Fe
 Properties Development
 Company, Ltd. Book
 2879, Page 510

30' LEA COUNTY GAS
 COMPANY EASEMENT BOOK
 1342, PAGE 537

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

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: A.H.

JOB NO. 2050-013-1D

RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013

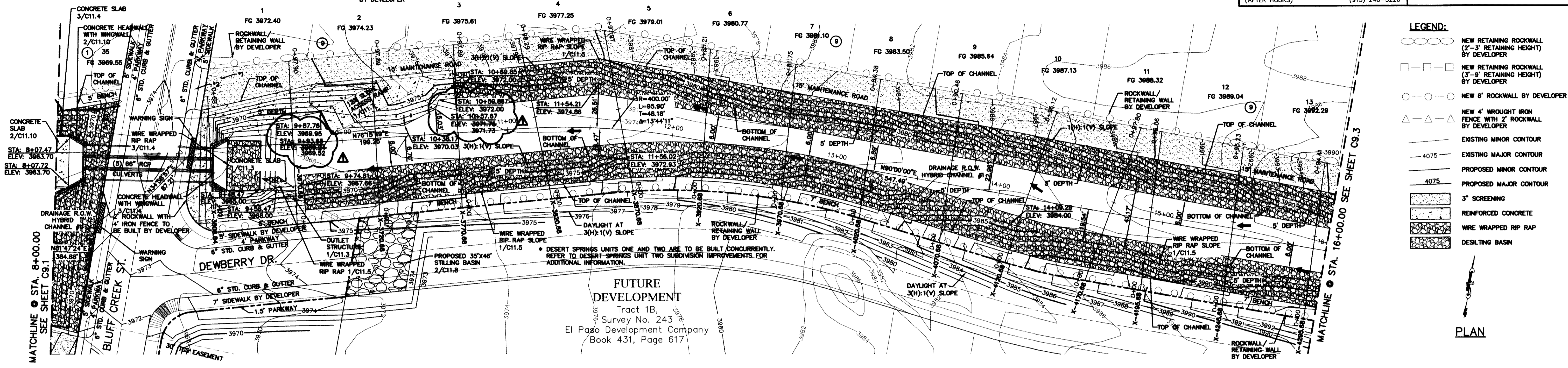
- GENERAL NOTES:**
1. THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN 30' TGS EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.
 2. REFER TO CDMR FOR A MORE DETAILED INFORMATION (11-06-2380R).
 3. DESERT SPRINGS UNITS ONE AND TWO SHALL BE BUILT CONCURRENTLY. REFER TO DESERT SPRINGS UNIT TWO SUBDIVISION IMPROVEMENTS FOR ADDITIONAL INFORMATION.

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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

- *1 18" WIDE WROUGHT IRON GATE BY DEVELOPER
- *2 COMMERCIAL DRIVEWAY BY DEVELOPER

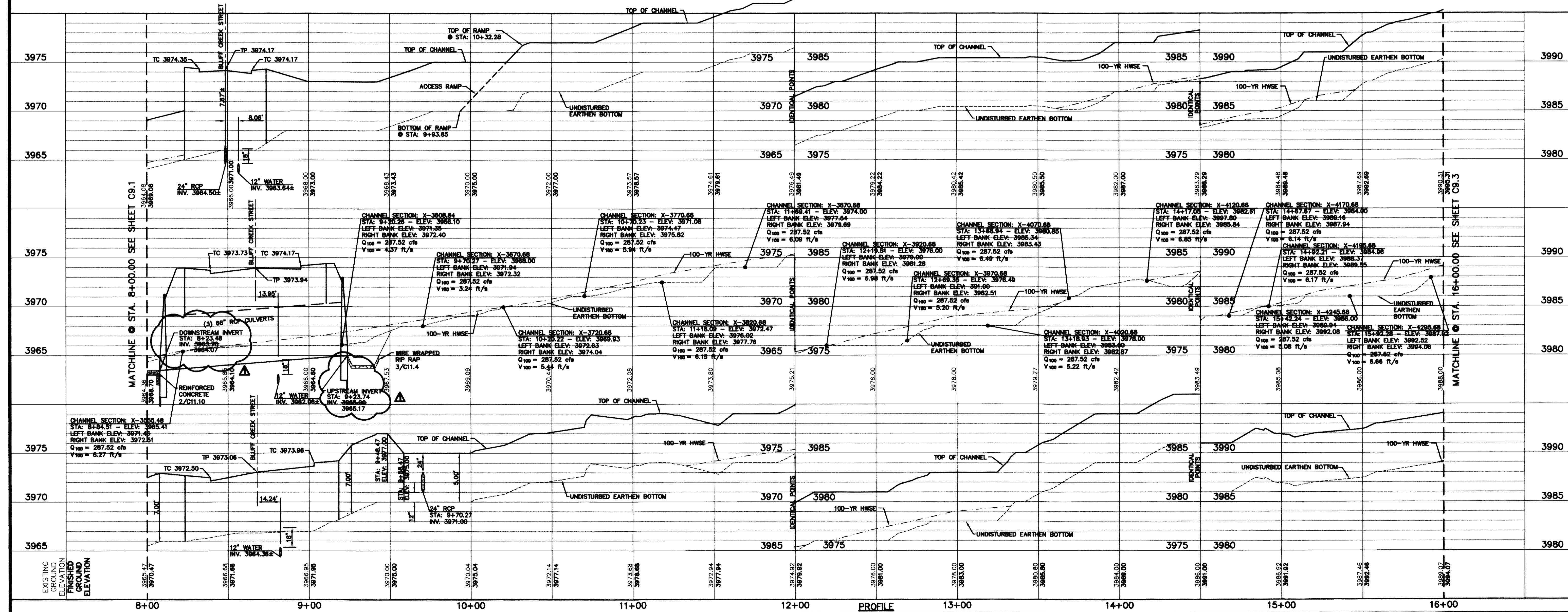


LEGEND:

- NEW RETAINING ROCKWALL (2'-3' RETAINING HEIGHT) BY DEVELOPER
- NEW RETAINING ROCKWALL (3'-8' RETAINING HEIGHT) BY DEVELOPER
- NEW 6" ROCKWALL BY DEVELOPER
- NEW 4" WROUGHT IRON FENCE WITH 2' ROCKWALL BY DEVELOPER
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- 3" SCREENING
- REINFORCED CONCRETE
- WIRE WRAPPED RIP RAP
- DESILTING BASIN

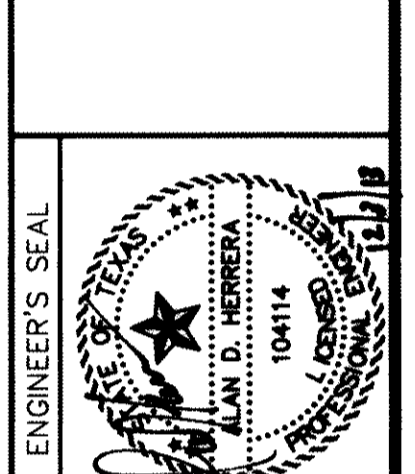
PLAN

FUTURE DEVELOPMENT
 Tract 1B,
 Survey No. 243
 El Paso Development Company
 Book 431, Page 617



REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STATIONED "CHINO 1987"
 ELEVATION: 3946.11 (NAVD 88 DATUM)
 CITY OF EL PASO VERTICAL DATUM
 3945.78 (NAVD 88 DATUM)
 TIE TO THE PROJ. 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239
 DATE: _____ BY: _____
 REVISIONS: _____
10.24.13 A ELEVATION CORRECTION

engineers • architects • planners
CEA GROUP
 CEA Group, Inc.
 4712 Woodrow Bush, Ste. F El Paso, TX 79904
 915.778.8888
 CEA GROUP REGISTRATION NO. 458

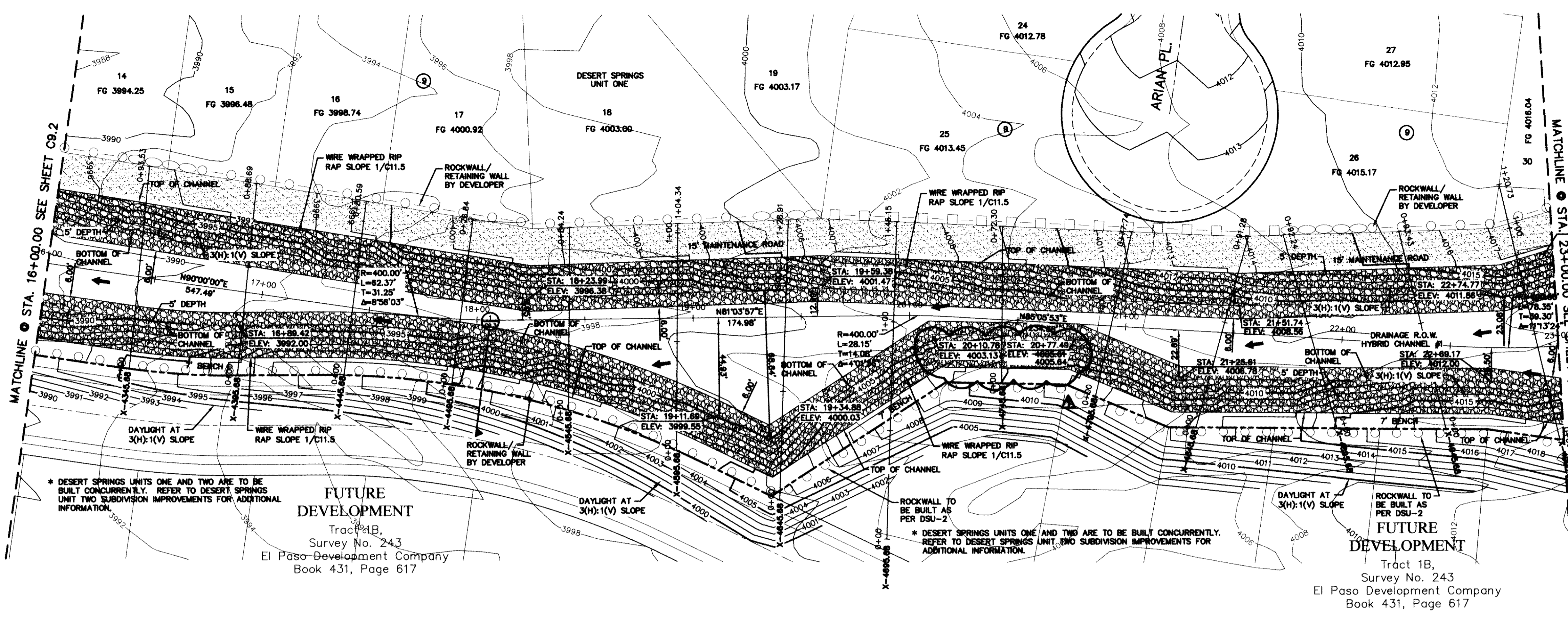


SCALE:
 Horizontal: 1"=30'
 Vertical: 1"=5'
 Contour Interval: N/A
DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: A.H.
 CHECKED BY: A.H.
 APPROVED BY: A.H.
 JOB No. 2010-013-LD

PROJECT TITLE
DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SHEET TITLE
 HYBRID CHANNEL #1
 PLAN & PROFILE
 FROM STA. 8+00.00
 TO STA. 16+00.00
 (SHEET 2 OF 6)
 SHEET NO.

C9.2



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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING I BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

RECORD DRAWINGS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEJA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

10/24/2013

LEGEND:

| | |
|--|--|
| | NEW RETAINING ROCKWALL (2'-3' RETAINING HEIGHT) BY DEVELOPER |
| | NEW RETAINING ROCKWALL (3'-9' RETAINING HEIGHT) BY DEVELOPER |
| | NEW 6' ROCKWALL BY DEVELOPER |
| | NEW 4' WROUGHT IRON FENCE WITH 2' ROCKWALL BY DEVELOPER |
| | EXISTING MINOR CONTOUR |
| | EXISTING MAJOR CONTOUR |
| | PROPOSED MINOR CONTOUR |
| | PROPOSED MAJOR CONTOUR |
| | 3' SCREENING |
| | REINFORCED CONCRETE |
| | WIRE WRAPPED RIP RAP |
| | LOOSE ROCK RIP RAP |

REFERENCES - BENCHMARKS

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980" ELEVATION: 3948.03 (CITY OF EL PASO VERTICAL DATUM) 3948.11 (NAVD 88 DATUM) 3945.78 (NAVD 28 DATUM)

SEE TO THE PROJECT BENCHMARK IS NAD83/92 E. 3026.83 CORNER OF TRACT 11, NELLE D. WANDY SURVEY NO. 239

DATE: _____ BY: _____

REVISIONS: _____

10-24-13 ELEVATION CORRECTION

CEJA GROUP

engineers • architects • planners

Tract 18, Survey No. 243, El Paso Development Company, Book 431, Page 617

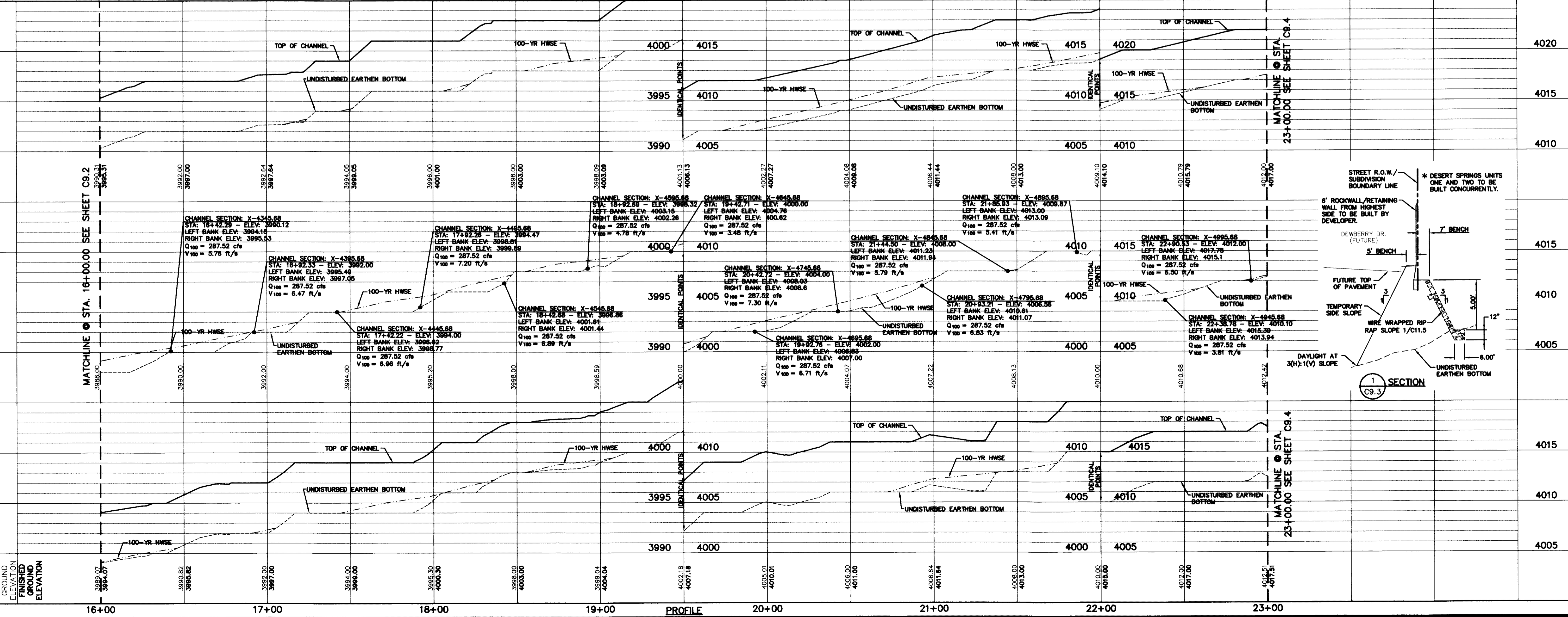
4712 Woodrow Bean St., El Paso, TX 79924
Office: 915.544.5232 Fax: 915.544.5233 www.cejagroup.net
TEXAS FIRM REGISTRATION NO. 0684

ENGINEER'S SEAL

ALAN D. HERRERA
10414

GENERAL NOTES:

- THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN 30' TOS EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.
- REFER TO CDMR FOR A MORE DETAIL INFORMATION (11-08-2380R).
- DESERT SPRINGS UNITS ONE AND TWO SHALL BE BUILT CONCURRENTLY. REFER TO DESERT SPRINGS UNIT TWO SUBDIVISION IMPROVEMENTS FOR ADDITIONAL INFORMATION.



SCALE

Horizontal: 1" = 30'

Vertical: 1" = 2'

Contour Interval: 1' / 2'

DATE: JUNE 2012

DESIGN BY: A.H.

DRAWN BY: J.M.

CHKD. BY: J.L.A.

APPRD. BY: A.H.

JOB NO. 2050-013-1D

PROJECT TITLE

DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

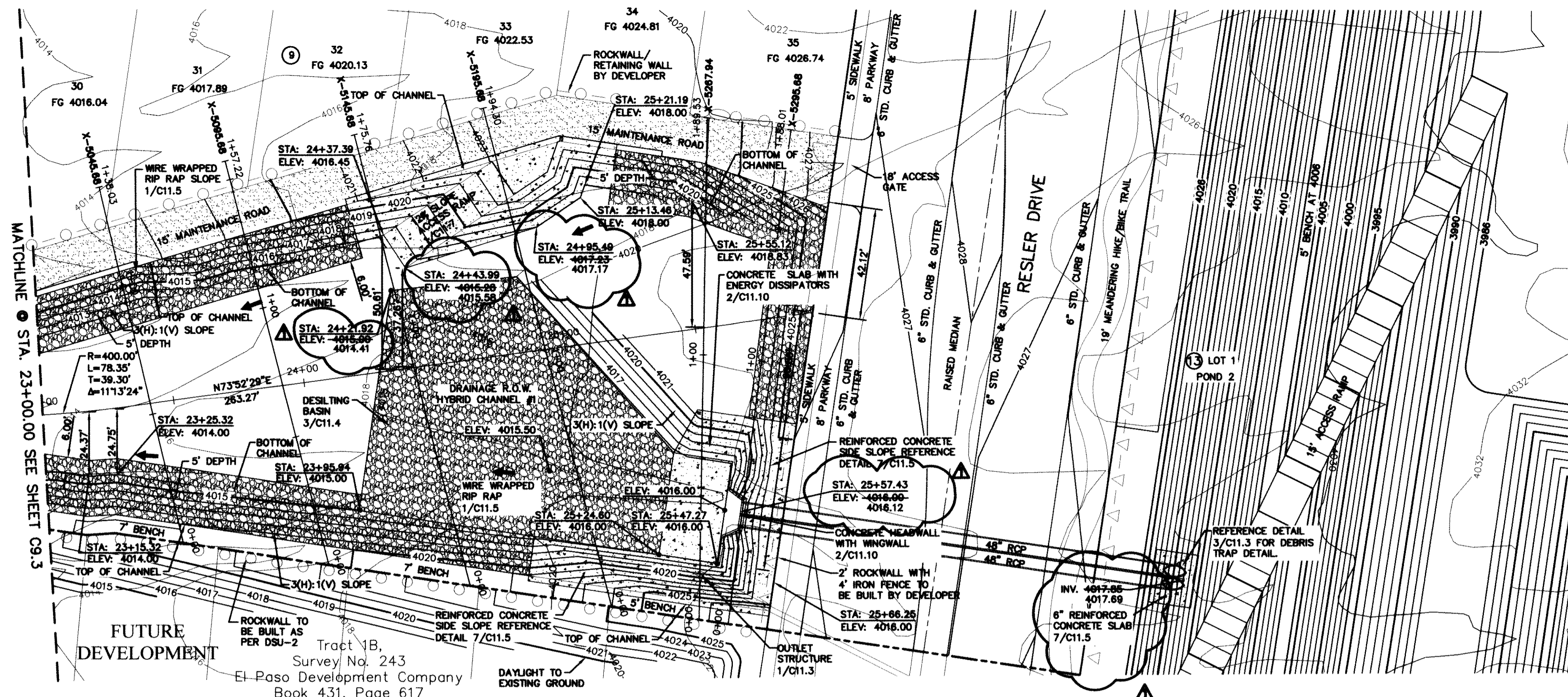
SHEET TITLE

HYBRID CHANNEL #1
PLAN & PROFILE
FROM STA. 16+00.00
TO STA. 23+00.00

(SHEET 3 OF 8)

SHEET NO.

C9.3



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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING I BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

RECORD DRAWINGS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

10/24/2013

LEGEND:

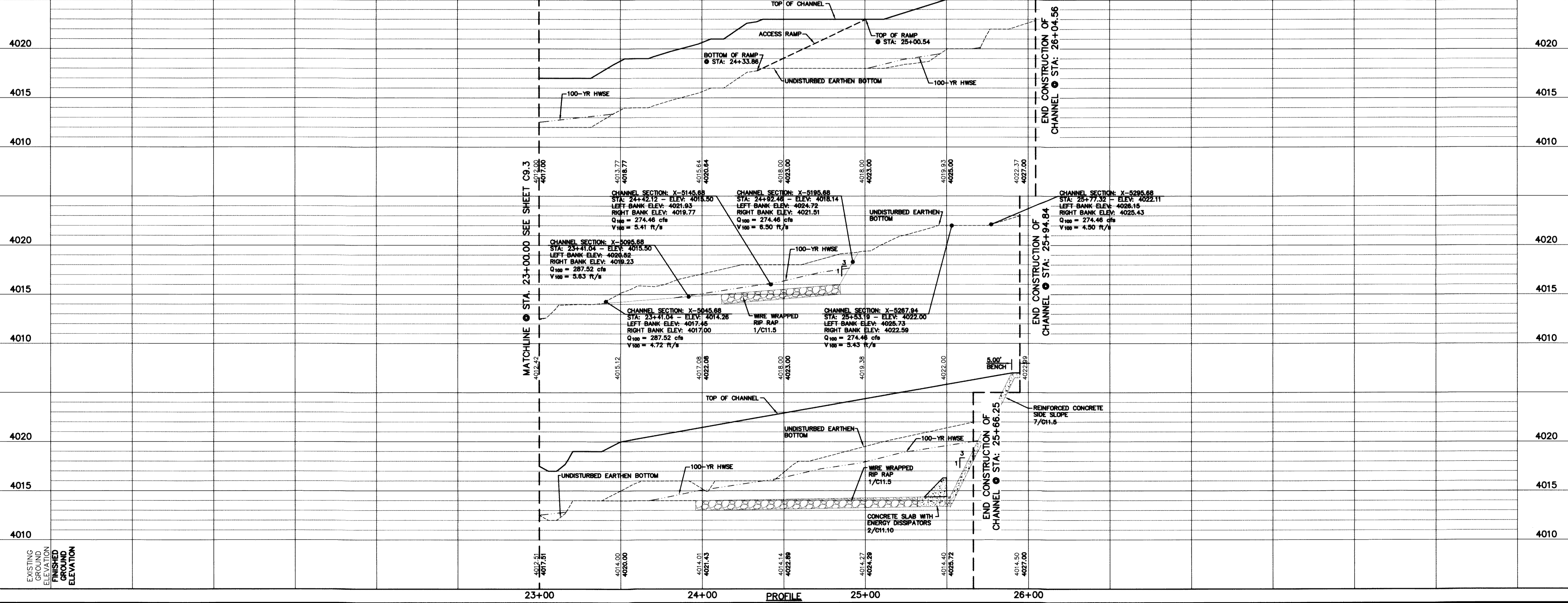
- NEW RETAINING ROCKWALL (2'-3' RETAINING HEIGHT) BY DEVELOPER
- NEW RETAINING ROCKWALL (3'-9' RETAINING HEIGHT) BY DEVELOPER
- NEW 6" ROCKWALL BY DEVELOPER
- △-△-△ NEW 4' WROUGHT IRON FENCE WITH 2' ROCKWALL BY DEVELOPER
- EXISTING MINOR CONTOUR
- 4075 EXISTING MAJOR CONTOUR
- 4075 PROPOSED MINOR CONTOUR
- 4075 PROPOSED MAJOR CONTOUR
- ▨ 3" SCREENING
- ▩ REINFORCED CONCRETE
- ▧ WIRE WRAPPED RIP RAP
- ▦ DESILTING BASIN

- GENERAL NOTES:**
- THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN 30' TGS EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.
 - REFER TO CLOWR FOR A MORE DETAIL INFORMATION (11-06-2380R).
 - DESERT SPRINGS UNITS ONE AND TWO SHALL BE BUILT CONCURRENTLY. REFER TO DESERT SPRINGS UNIT TWO SUBDIVISION IMPROVEMENTS FOR ADDITIONAL INFORMATION.

FUTURE DEVELOPMENT

Tract 1B, Survey No. 243
El-Paso Development Company
Book 431, Page 617

* DESERT SPRINGS UNITS ONE AND TWO ARE TO BE BUILT CONCURRENTLY. REFER TO DESERT SPRINGS UNIT TWO SUBDIVISION IMPROVEMENTS FOR ADDITIONAL INFORMATION.



REFERENCES - BENCHMARKS

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
ELEVATION: 3946.31 (NAD 83 DATUM)
3945.78 (NAD 29 DATUM)
TO THE PROJECT BENCHMARK IS NAD83/29E, 3026.83
CORNER OF TRACT 11, NELLE D. WARDY SURVEY, NO. 239

DATE: _____ REVISIONS: _____ BY: _____

10.24.13 A ELEVATION CORRECTION

CEA

engineers • architects • planners

Center @ Transmountain
4712 Woodrow Behm, Ste. F El Paso, TX 79924
Office: 915.544.5332 Fax: 915.544.5333 www.ceagroup.net
TEXAS FIRM REGISTRATION NO. 4864

ENGINEER'S SEAL

ALAN D. HERRERA
10414

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: A.H.

JOB NO. 2056-013-1-D

PROJECT TITLE

DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SHEET TITLE

HYBRID CHANNEL #1
PLAN & PROFILE
FROM STA. 23+00.00
TO STA. 25+94.84

(SHEET 4 OF 6)

SHEET NO.

C9.4

| UTILITY LOCATOR SERVICES | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| WCI SURVEILLANCE | (800) WCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| AT&T | (800) 852-3786 |
| ONEOK PARTNERS | (915) 595-6918 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING!
BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

RECORD DRAWINGS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

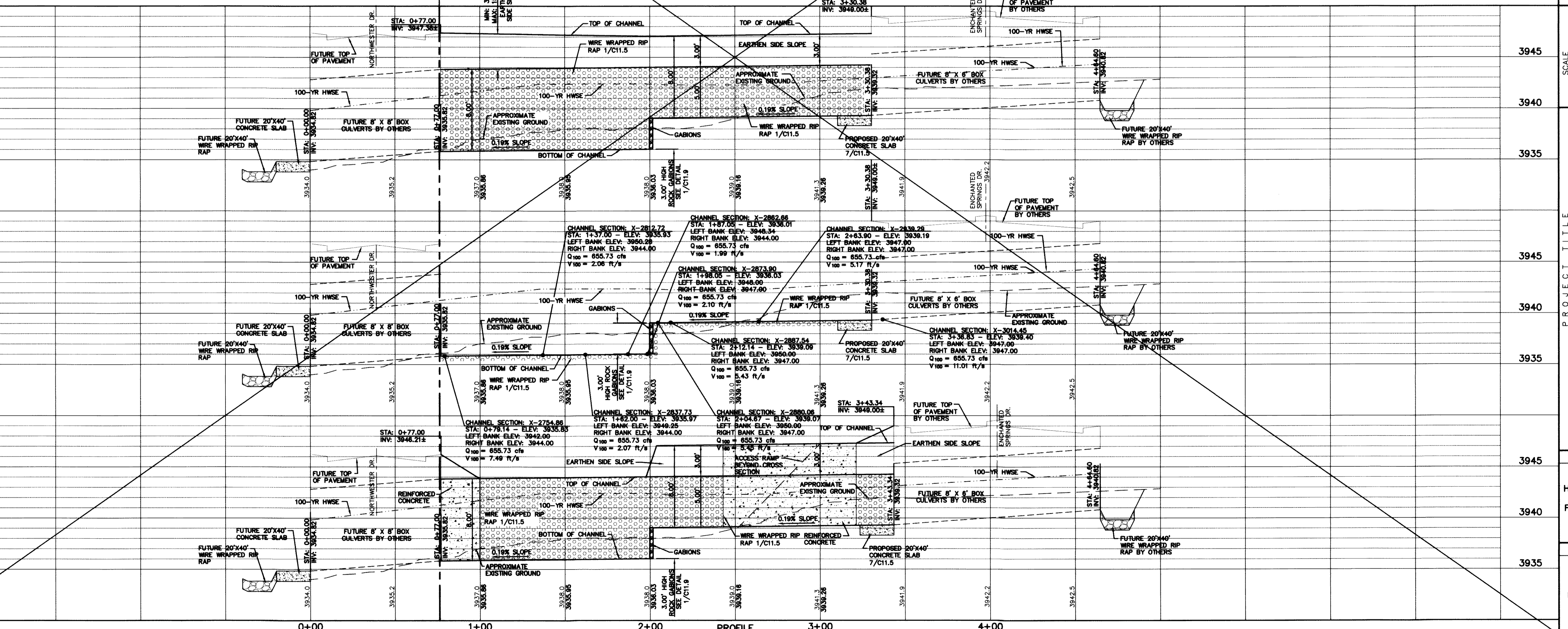
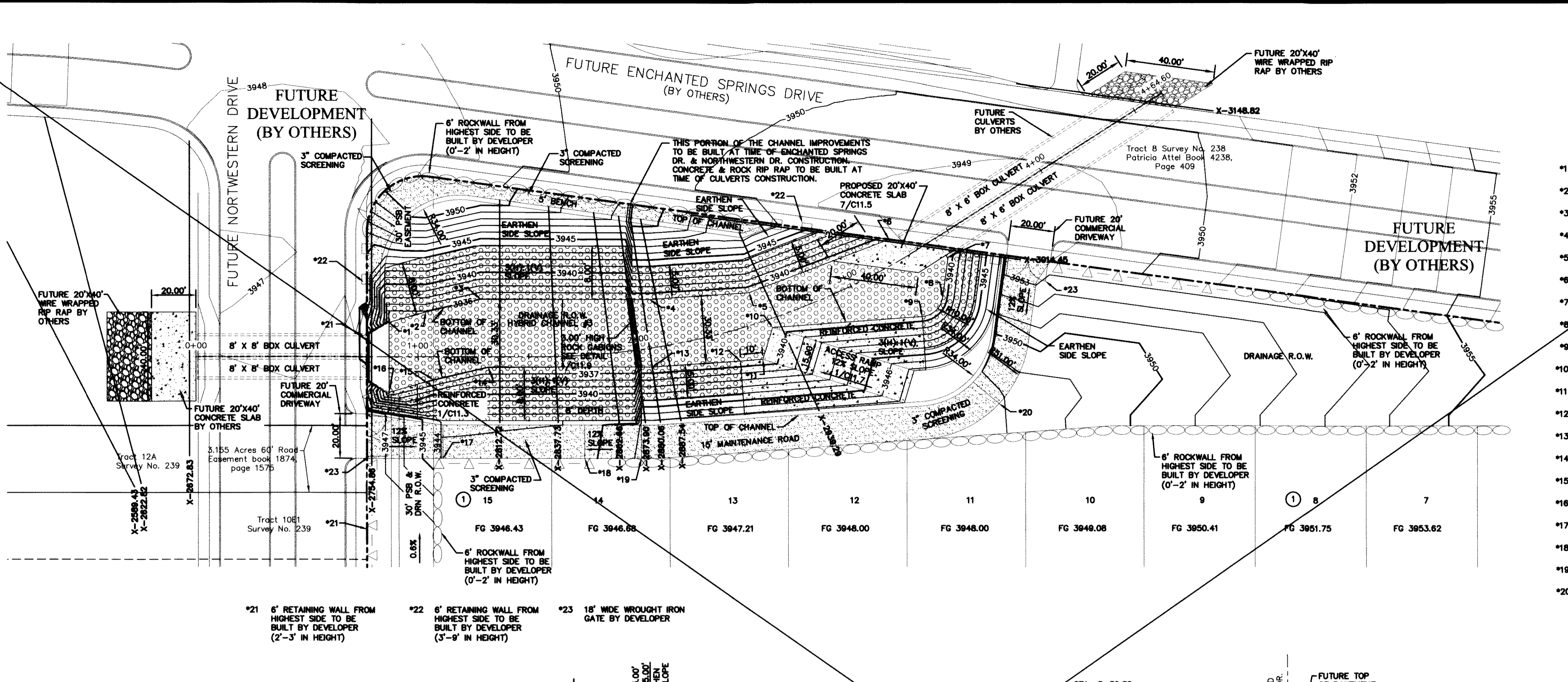
10/24/2013

| STATION | ELEVATION |
|---------|----------------------------|
| *1 | STA: 0+87.00 ELEV: 3935.85 |
| *2 | STA: 1+03.61 ELEV: 3935.88 |
| *3 | STA: 1+26.35 ELEV: 3935.93 |
| *4 | STA: 2+08.29 ELEV: 3939.08 |
| *5 | STA: 2+55.37 ELEV: 3939.17 |
| *6 | STA: 3+25.25 ELEV: 3939.51 |
| *7 | STA: 3+43.77 ELEV: 3939.32 |
| *8 | STA: 3+32.00 ELEV: 3939.32 |
| *9 | STA: 3+21.20 ELEV: 3939.30 |
| *10 | STA: 2+60.49 ELEV: 3939.18 |
| *11 | STA: 2+52.18 ELEV: 3939.69 |
| *12 | STA: 2+42.82 ELEV: 3939.15 |
| *13 | STA: 2+04.50 ELEV: 3939.08 |
| *14 | STA: 1+31.74 ELEV: 3935.94 |
| *15 | STA: 1+07.00 ELEV: 3935.89 |
| *16 | STA: 0+87.00 ELEV: 3935.85 |
| *17 | STA: 1+11.24 ELEV: 3943.89 |
| *18 | STA: 1+75.24 ELEV: 3944.32 |
| *19 | STA: 1+99.80 ELEV: 3947.37 |
| *20 | STA: 3+25.97 ELEV: 3947.71 |

LEGEND:

- NEW 6' HIGH ROCKWALL BY DEVELOPER
- NEW 6' HIGH RETAINING ROCKWALL (2'-3' IN HEIGHT) BY DEVELOPER
- NEW 6' HIGH RETAINING ROCKWALL (3'-9' IN HEIGHT) BY DEVELOPER
- NEW 2' ROCKWALL WITH 4" HIGH WROUGHT IRON FENCE BY DEVELOPER
- NEW 6' HIGH CONCRETE/ROCKWALL COMBO WALL BY DEVELOPER
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- 3' SCREENING
- REINFORCED CONCRETE
- WIRE WRAPPED RIP RAP
- DESILTING BASIN
- 3' HIGH ROCK GABIONS

NOTE:
EROSION CONTROL MEASURES AND IMPROVEMENTS ON ADJACENT PROPERTY ARE SHOWN FOR DEPICTION ONLY. ACTUAL DESIGN AND IMPROVEMENTS TO BE COMPLETED WITHIN ENCHANTED SPRINGS DEVELOPMENT.



ENGINEER'S SEAL

DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

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

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPVD. BY: A.H.

JOB NO. 2050-013-1D

PROJECT TITLE

DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SHEET TITLE

HYBRID CHANNEL #3
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 4+64.60

(SHEET 5 OF 6)

SHEET NO.

C9.5R

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
 ONEOK PARTNERS (915) 595-6918
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750
 (AFTER HOURS) (915) 240-3220

WARNING I BEFORE YOU DIG

CALL
 1-800-DIG-TESS
 1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

RECORD DRAWINGS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

10/24/2013

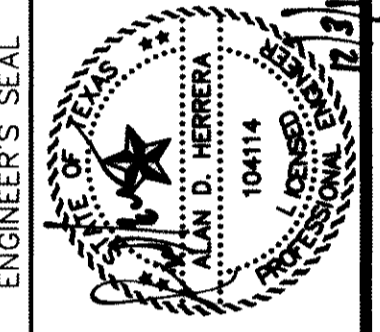
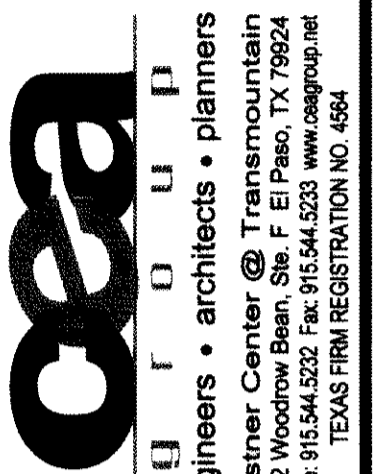
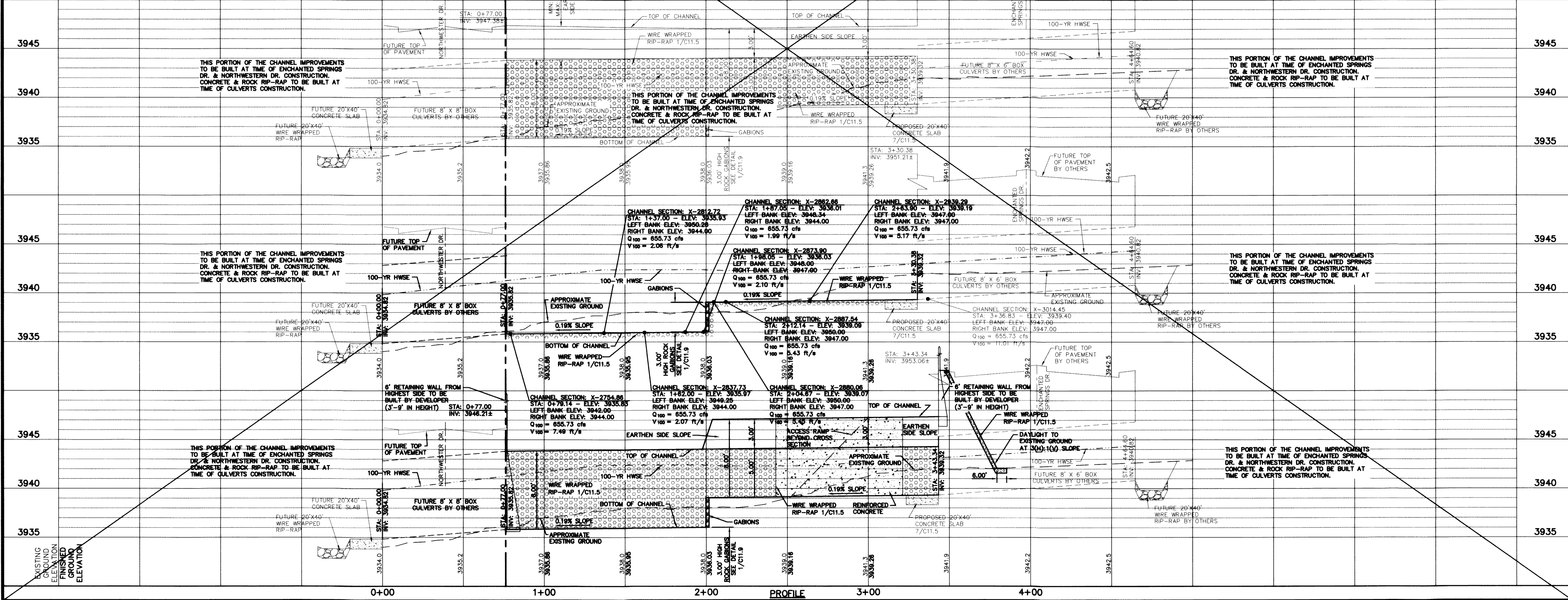
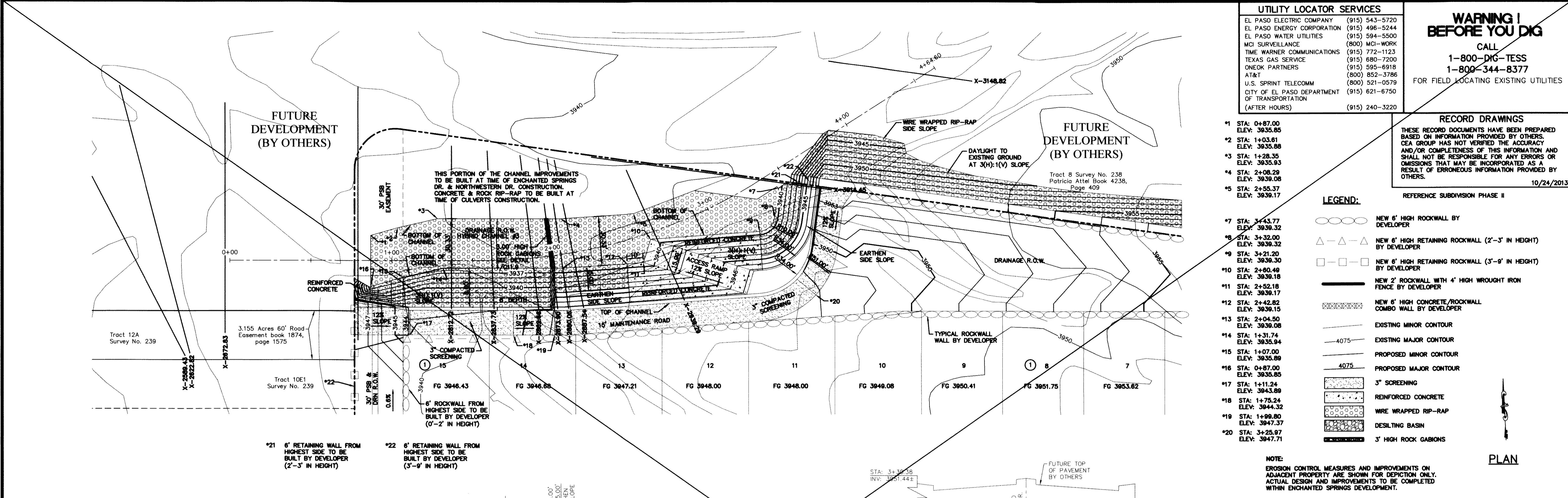
REFERENCES - BENCHMARKS

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3946.11
 CITY OF EL PASO VERTICAL DATUM
 3946.11 (NAVD 88 DATUM)
 BE TO THE 1/2" SCALE BEARING FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239
 DATE: _____ BY: _____
 REVISIONS: _____

- LEGEND:**
- ○ ○ ○ NEW 6' HIGH ROCKWALL BY DEVELOPER
 - △ △ △ △ NEW 6' HIGH RETAINING ROCKWALL (2'-3' IN HEIGHT) BY DEVELOPER
 - □ □ □ NEW 6' HIGH RETAINING ROCKWALL (3'-9' IN HEIGHT) BY DEVELOPER
 - NEW 2' ROCKWALL WITH 4' HIGH WROUGHT IRON FENCE BY DEVELOPER
 - ▨ NEW 6' HIGH CONCRETE/ROCKWALL COMBO WALL BY DEVELOPER
 - EXISTING MINOR CONTOUR
 - 4075 EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - 4075 PROPOSED MAJOR CONTOUR
 - ▨ 3' SCREENING
 - ▨ REINFORCED CONCRETE
 - ▨ WIRE WRAPPED RIP-RAP
 - ▨ DESILTING BASIN
 - ▨ 3' HIGH ROCK GABIONS

NOTE:
 EROSION CONTROL MEASURES AND IMPROVEMENTS ON ADJACENT PROPERTY ARE SHOWN FOR DEPICTION ONLY. ACTUAL DESIGN AND IMPROVEMENTS TO BE COMPLETED WITHIN ENCHANTED SPRINGS DEVELOPMENT.

PLAN



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

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: A.H.
JOB NO.: 2009-013-LD

PROJECT TITLE

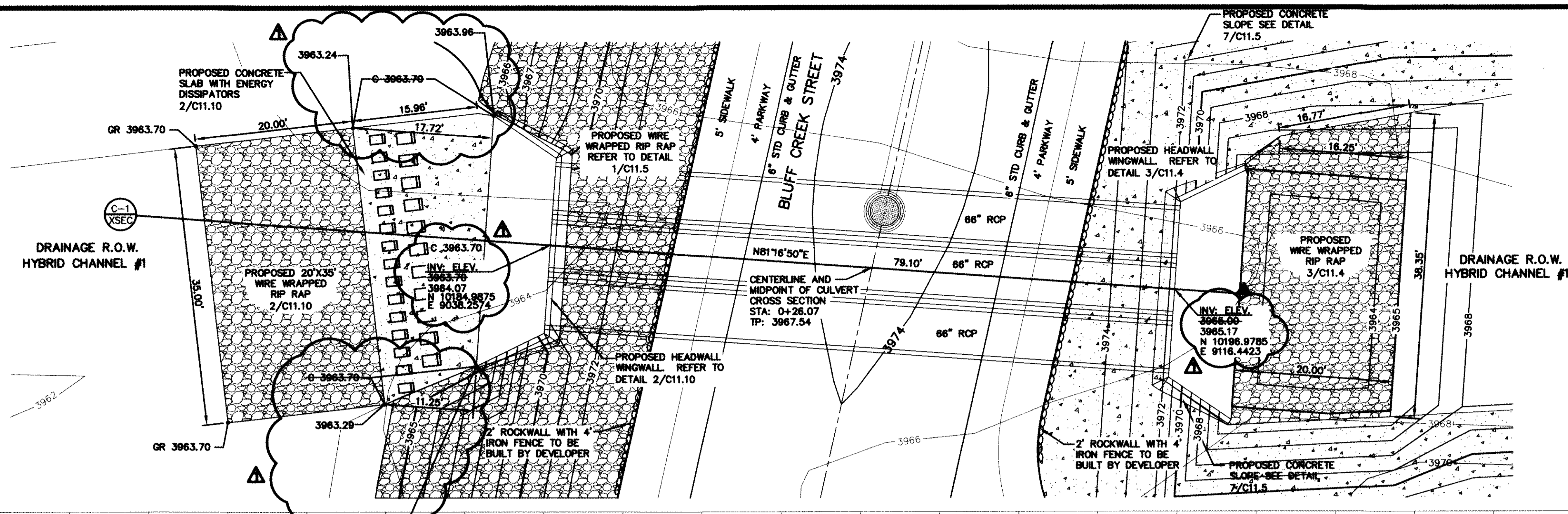
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

**HYBRID CHANNEL
 #3 INTERIM
 PLAN & PROFILE
 FROM STA. 0+00.00
 TO STA. 4+64.60
 (SHEET 6 OF 6)**

SHEET NO.

C9.5A



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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING!
BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

RECORD DRAWINGS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

10/24/2013

- LEGEND:**
- TP TOP OF POND ELEVATION
 - BP BOTTOM OF POND ELEVATION
 - EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - 6" REINFORCED CONCRETE SLAB
 - 2' ROCKWALL WITH 4" IRON FENCE TO BE BUILT BY DEVELOPER
 - WIRE WRAPPED RIP RAP
 - LOOSE ROCK RIP RAP
 - DESILTING BASIN

REFERENCES - BENCHMARKS

FOUND N.G.S. SURVEY MARKER STAMPED "CHNO 1880"
ELEVATION: 3965.03 (CITY OF EL PASO VERTICAL DATUM SHOW) (NAVD 88 DATUM)
3945.78 (NOVD 29 DATUM)
TIE TO THE PROJECT BENCHMARK IS N 050°50'52"E, 3.020±8.3 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, WELLS CO. JUDICIARY SURVEY, PG. 253

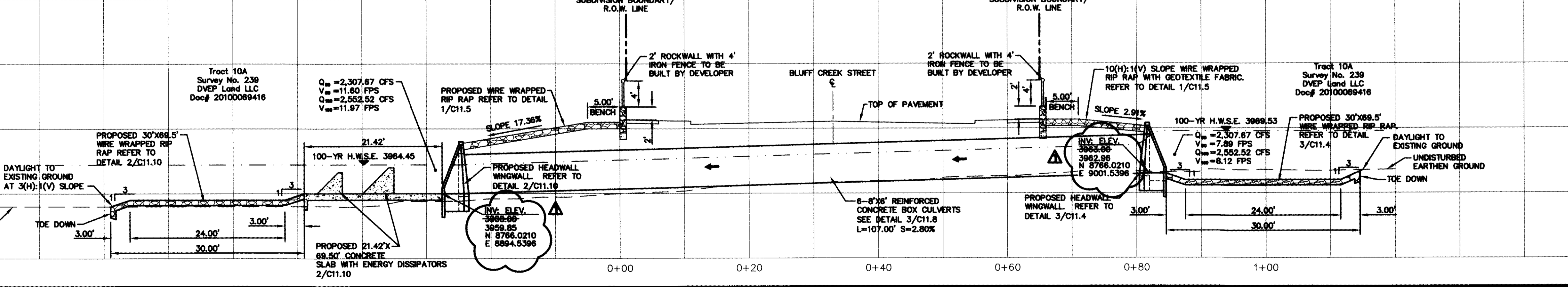
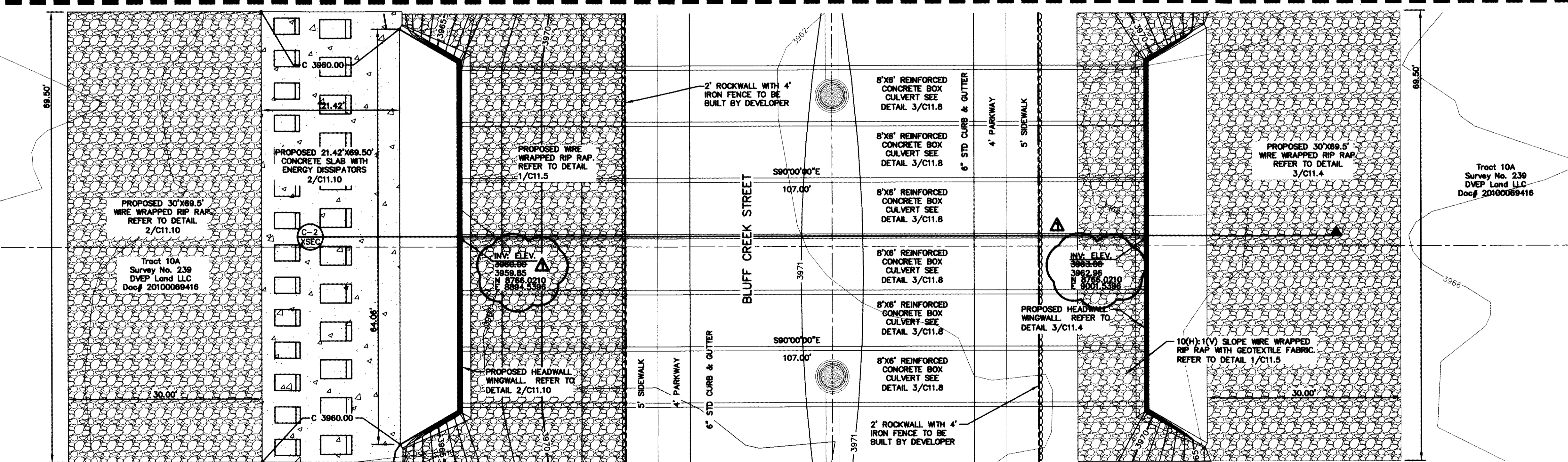
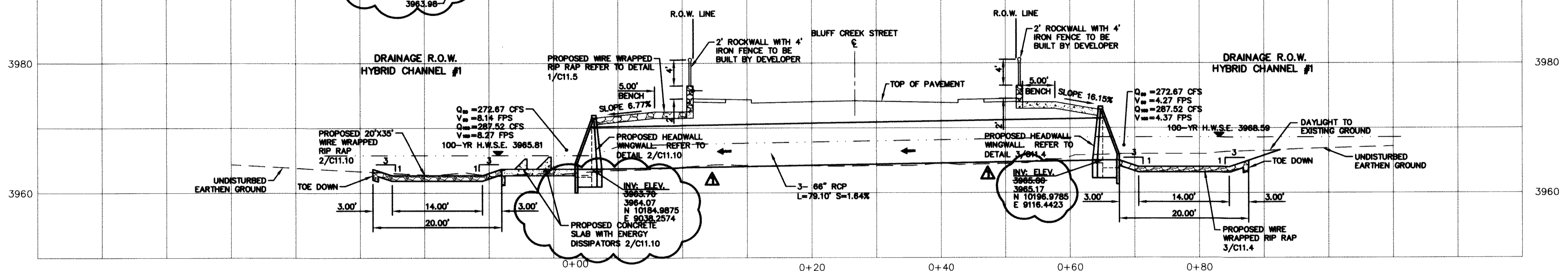
DATE: 10/24/2013
BY: [Signature]

CEA
engineers • architects • planners

10414
10414
10414

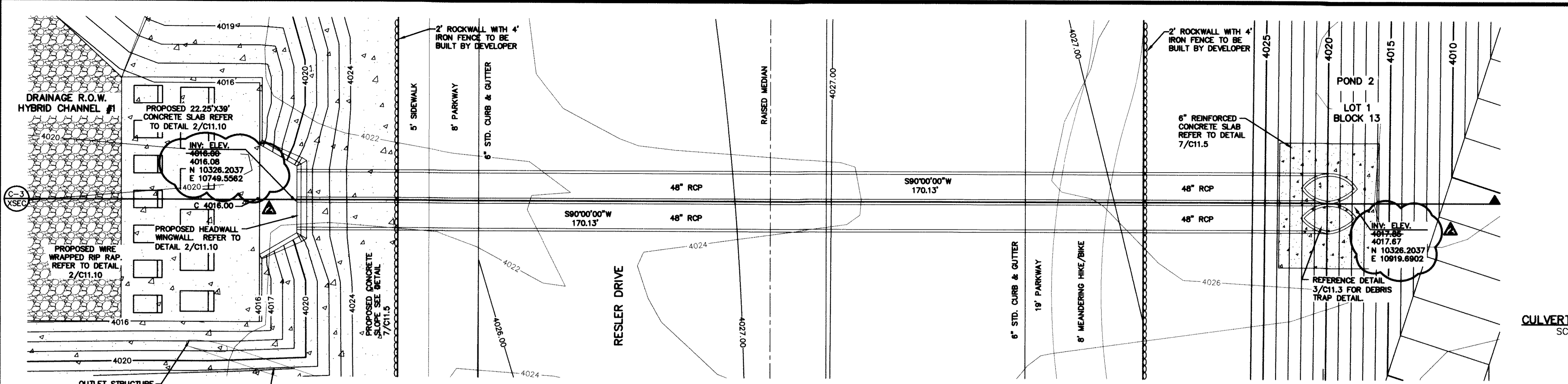
ENGINEER'S SEAL
[Signature]

SCALE: 1"=10'
Horizontal: 1"=5'
Vertical: 1"=5'
Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPVD. BY: A.H.
JOB NO. 2050-03-LD



PROJECT TITLE
DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SHEET TITLE
CULVERT CROSSINGS 1 & 2
(SHEET 1 OF 2)
SHEET NO. C9.6

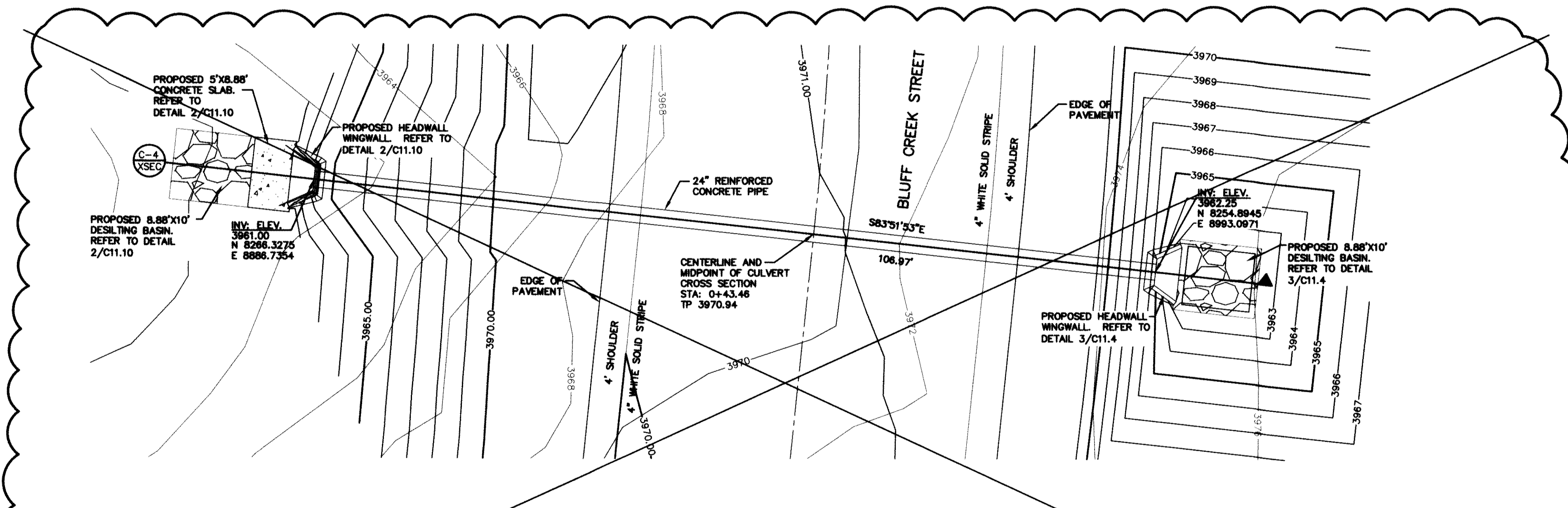
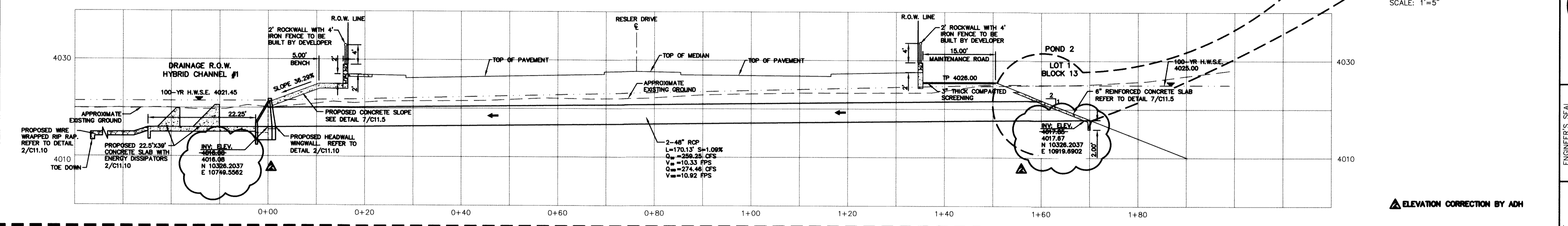
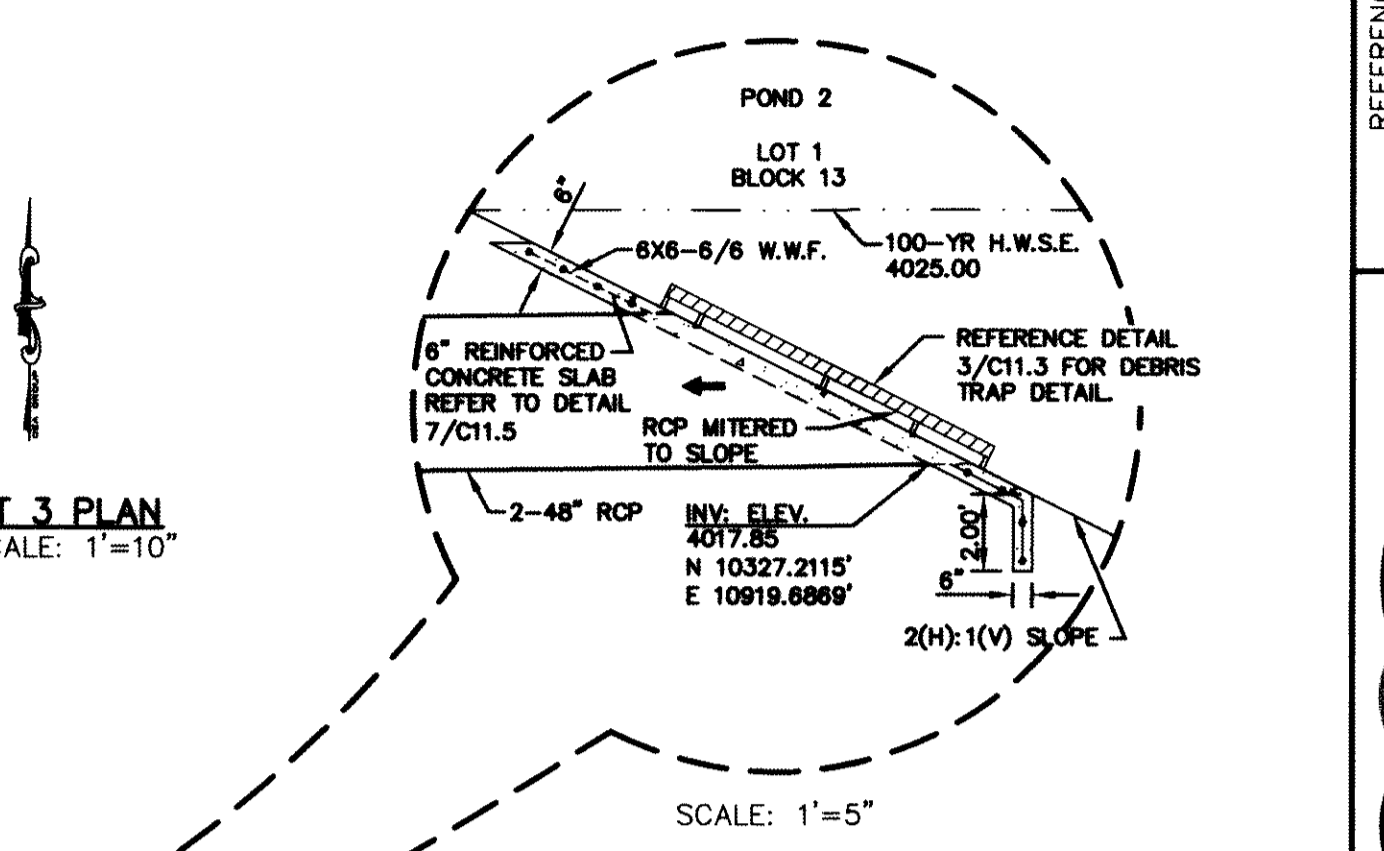


UTILITY LOCATOR SERVICES

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
 ONEOK PARTNERS (915) 595-6918
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750
 (AFTER HOURS) (915) 240-3220

WARNING! BEFORE YOU DIG

CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

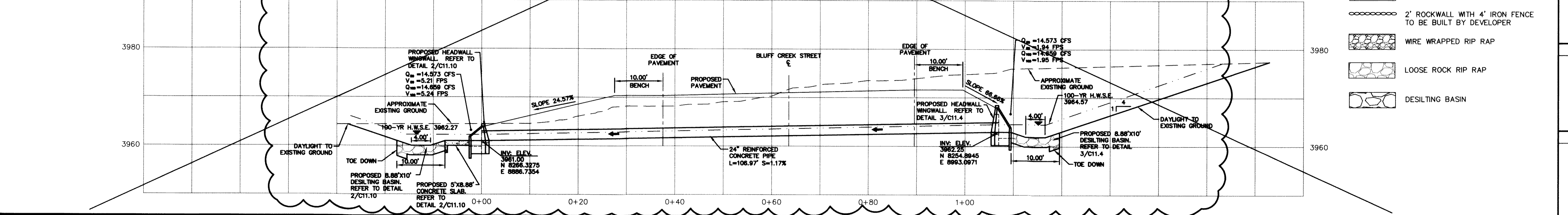


RECORD DRAWINGS

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10/24/2013
 REFERENCE SUBDIVISION PHASE II

- LEGEND:**
- TP TOP OF POND ELEVATION
 - BP BOTTOM OF POND ELEVATION
 - EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - 4350 PROPOSED MAJOR CONTOUR
 - 6" REINFORCED CONCRETE SLAB
 - 2' ROCKWALL WITH 4' IRON FENCE TO BE BUILT BY DEVELOPER
 - WIRE WRAPPED RIP RAP
 - LOOSE ROCK RIP RAP
 - DESILTING BASIN



DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

CULVERT CROSSINGS 3 & 4
(SHEET 2 OF 2)
SHEET NO. C9.7

CEA GROUP
engineers • architects • planners
Caster Center @ Transmountain
1712 West 15th Street, Suite 100
El Paso, Texas 79924
Phone: 915.544.5555
www.cea.com
TEXAS REGISTRATION NO. 459

ENGINEER'S SEAL

SCALE: Horizontal: 1"=10'
Vertical: 1"=5'
Contour Interval: N/A

DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APPVD. BY: A.H.
 JOB No. 2050-013-LD

PROJECT TITLE

REFERENCES - BENCHMARKS

FOUND U.S.S. SURVEY MARKER STAMPED "TOWN 1987"
 ELEVATION: 3944.11 (NAD 88 DATUM)
 3944.11 (CITY OF EL PASO VERTICAL DATUM SHOWN)

TIE TO THE PROJECT BENCHMARK IS NAD89/92/7E, 3,020.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY NO. 239

DATE: 10/24/13
 REVISIONS: BY: ADH
 PLANNED BY: ADH

GENERAL NOTES:

1. THE SIDES OF THE CHANNEL SHALL BE WIRE TIED RIP RAP AS PER DETAIL 8/C11.3.
2. ACCESS RAMPS OF THE CHANNEL SHALL BE REINFORCED CONCRETE AS PER DETAIL 1/C11.7
3. REINFORCED CONCRETE ACCOMMODATIONS SHALL BE AS PER DETAIL 7/C11.5

RECORD DRAWINGS

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10/24/2013

BENCHMARK:

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: **3935.93** (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NAVD 88 DATUM)
 3945.78 (NGVD 29 DATUM)
 TIE TO THE PROJECT BENCHMARK IS N00°50'52"E, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

LEGEND

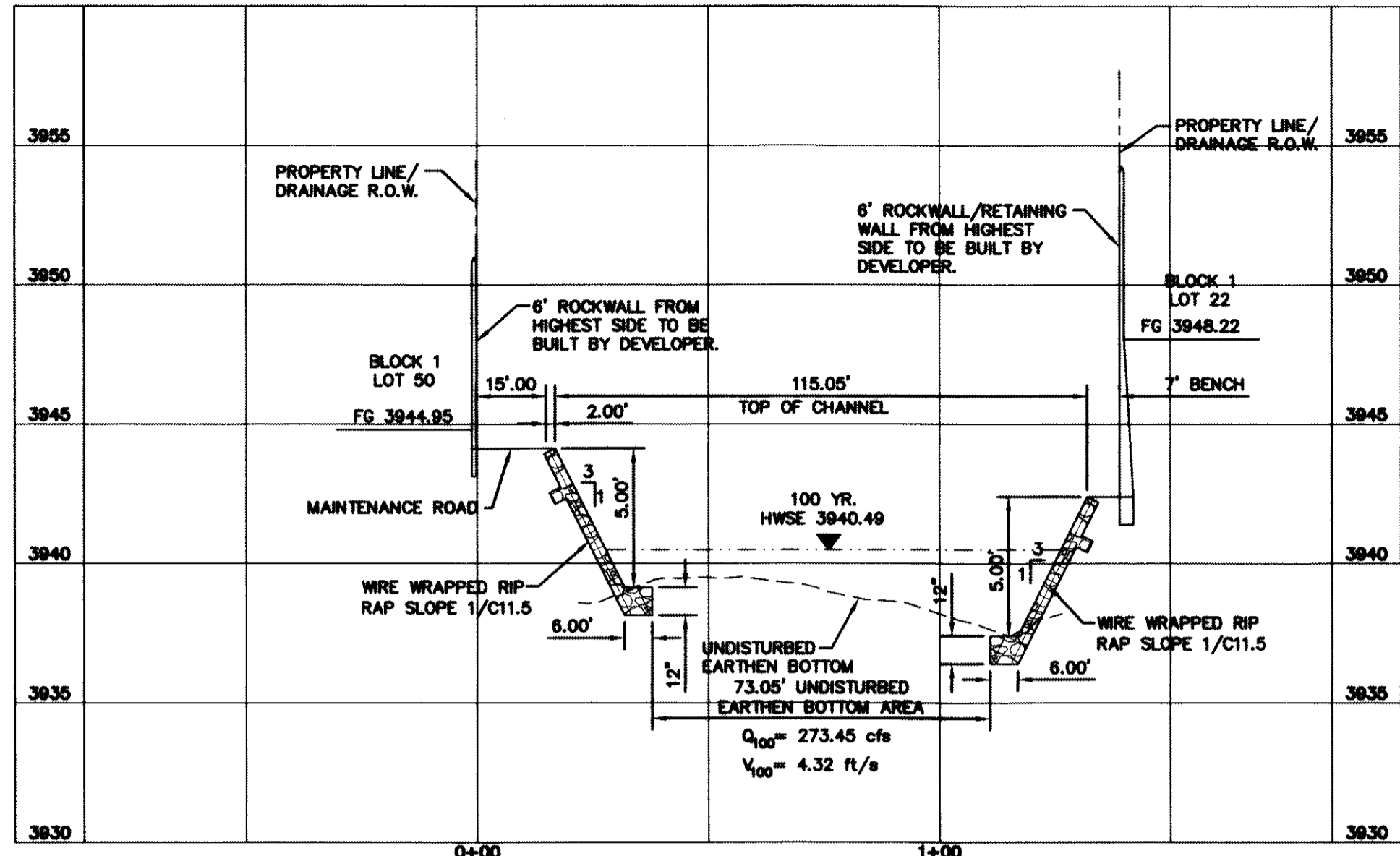
- 100 YR HWSE
- UNDISTURBED EARTHEN BERM

UTILITY LOCATOR SERVICES

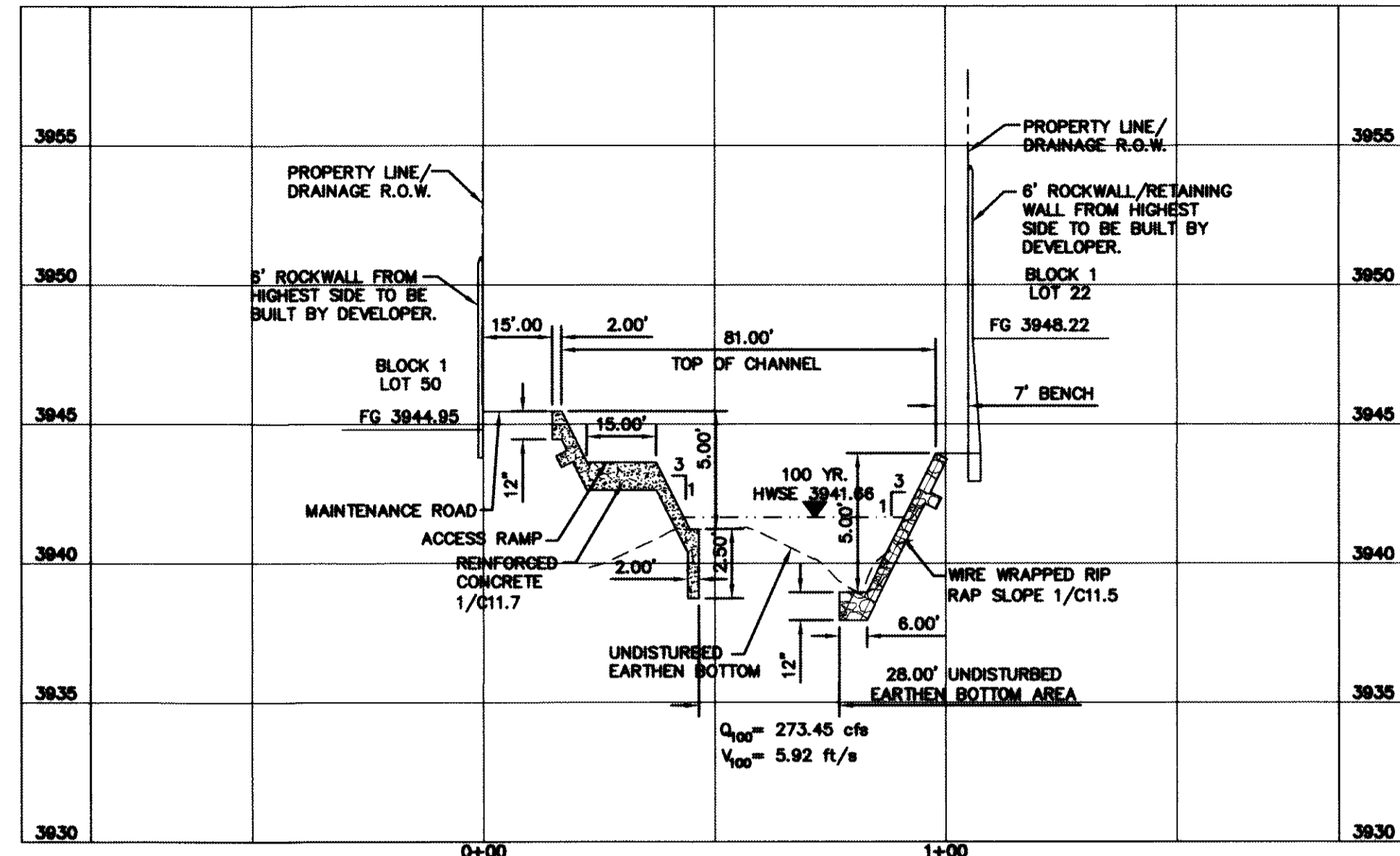
| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 498-5244 |
| EL PASO WATER UTILITIES | (915) 534-5500 |
| NCI SURVEILLANCE | (800) WCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING!
BEFORE YOU DIG

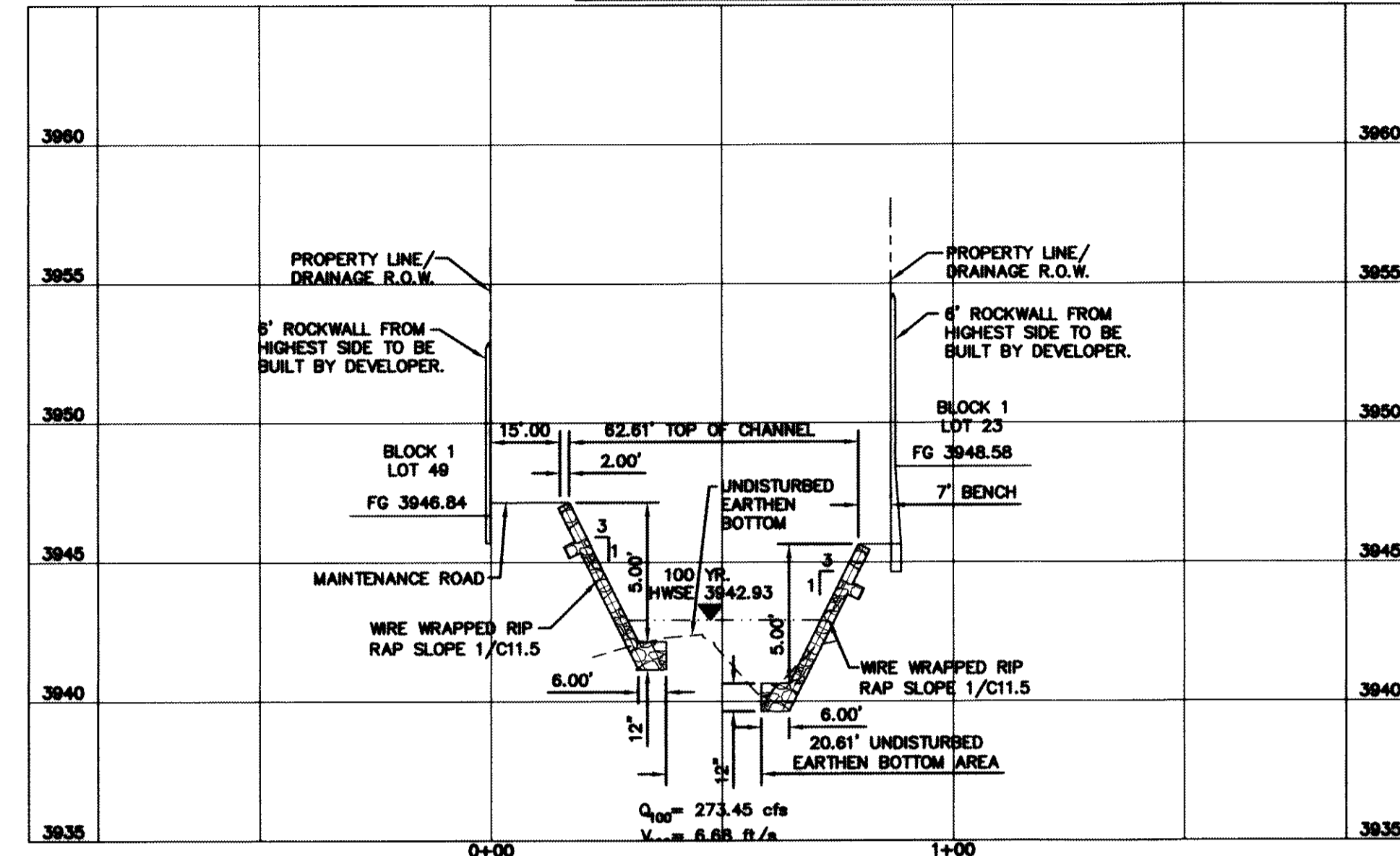
CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES



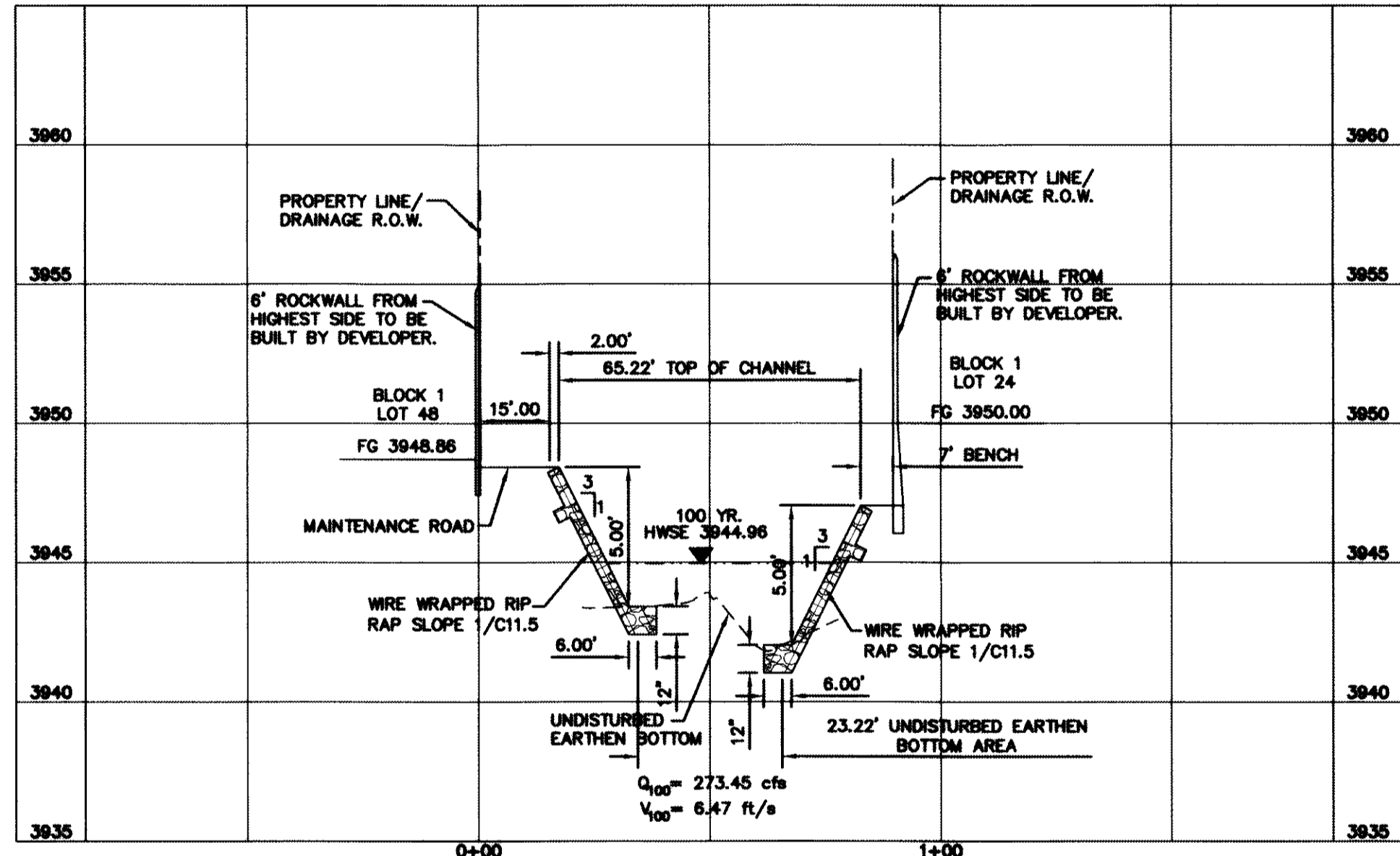
SECTION 2775.49



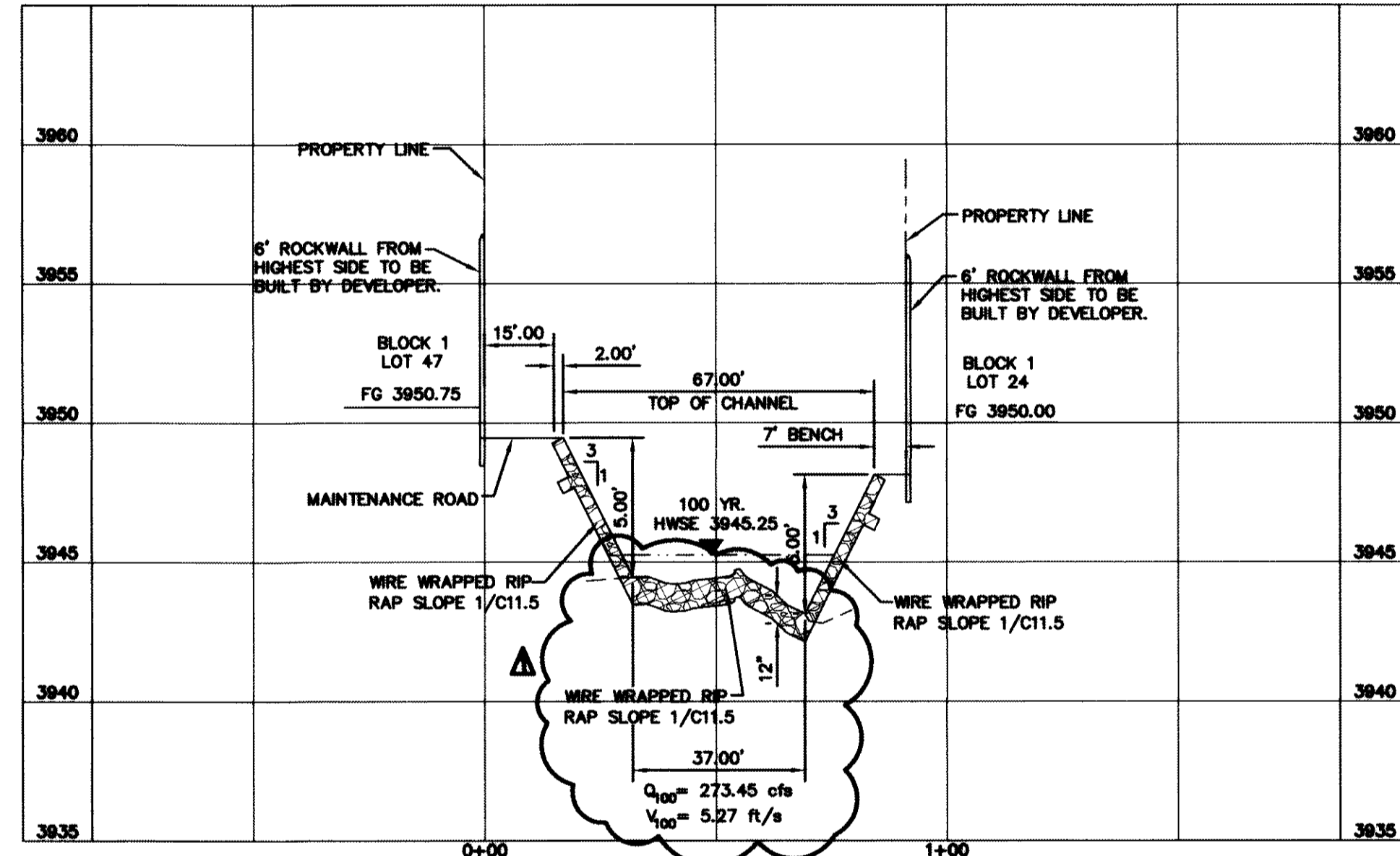
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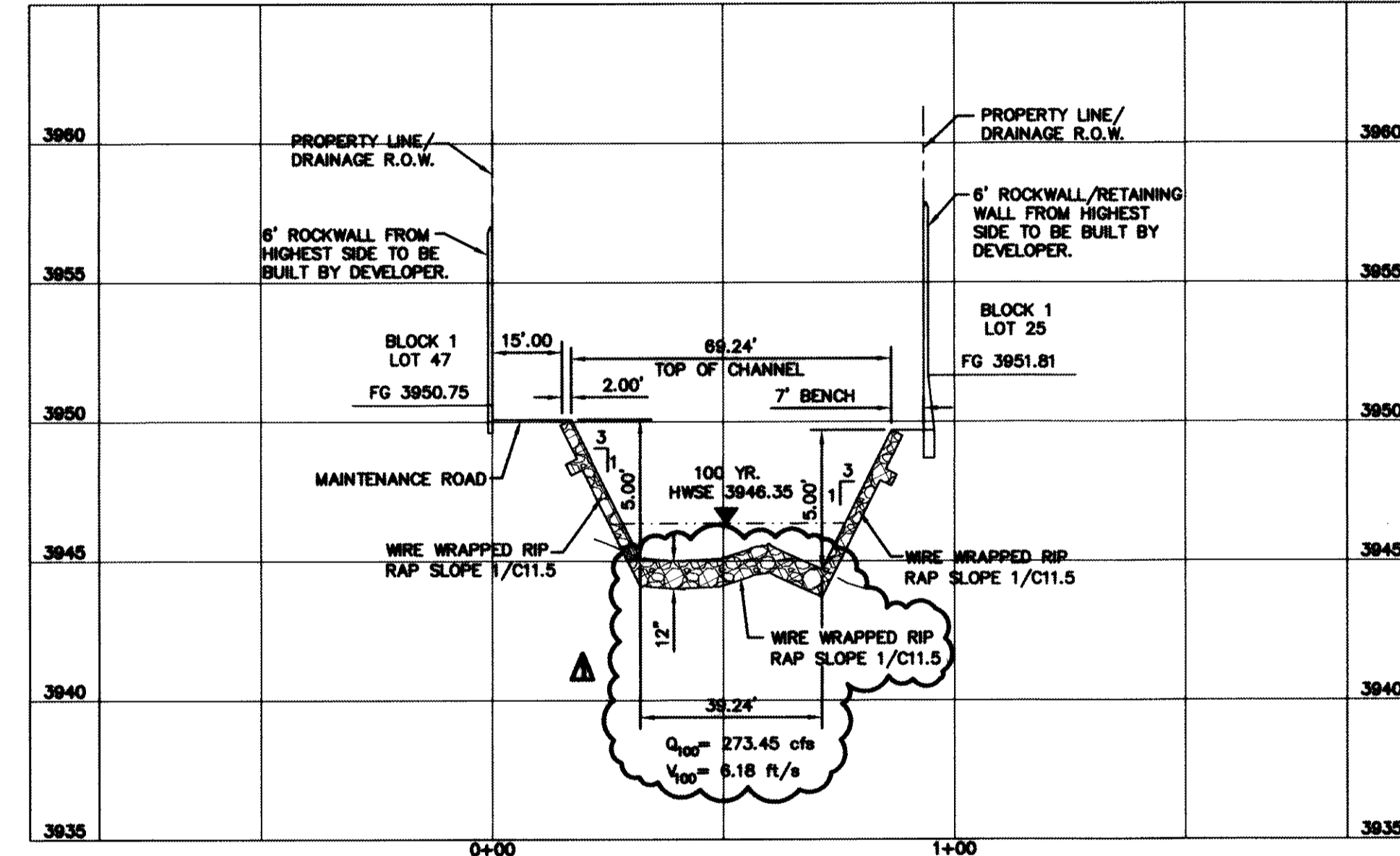
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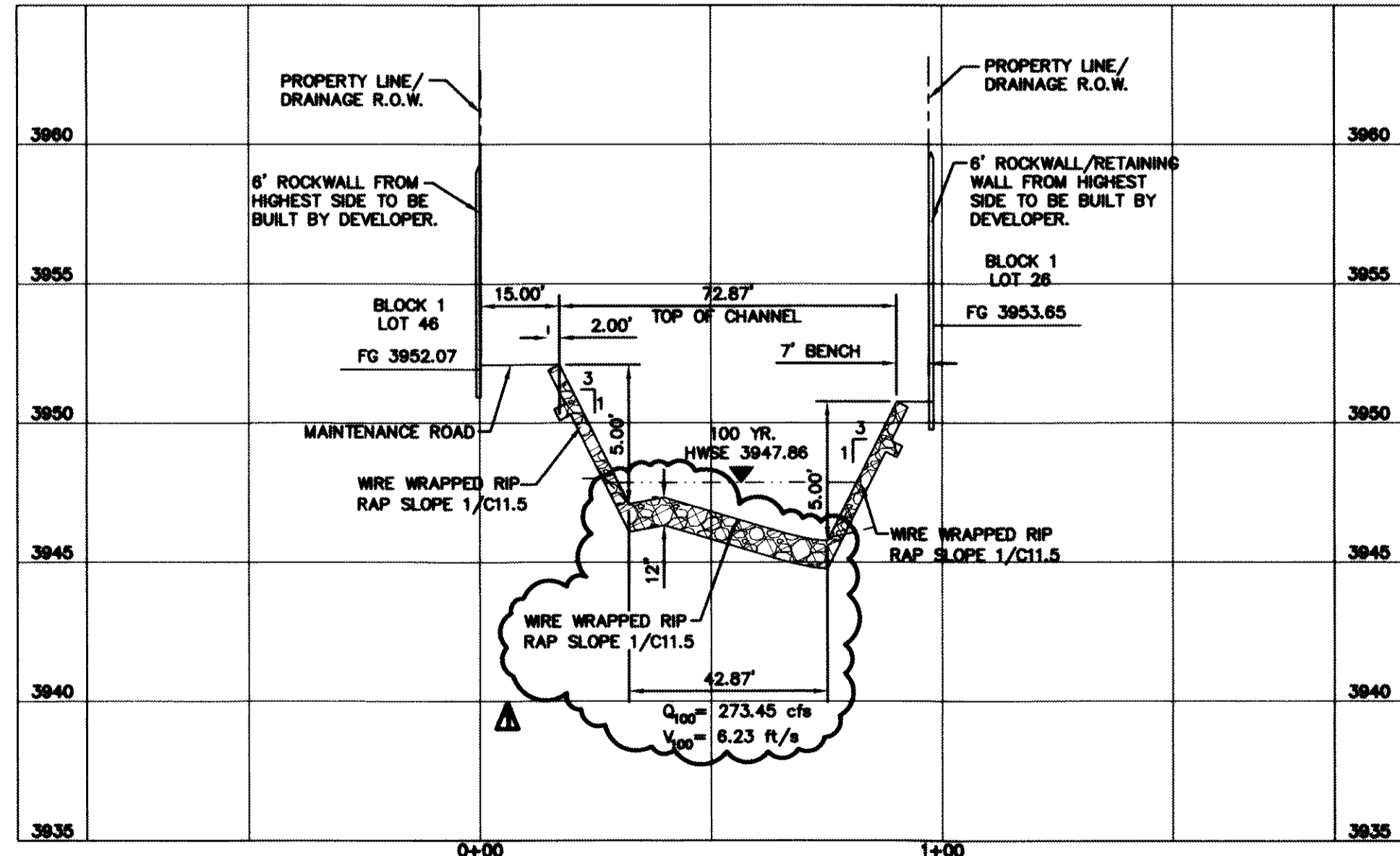
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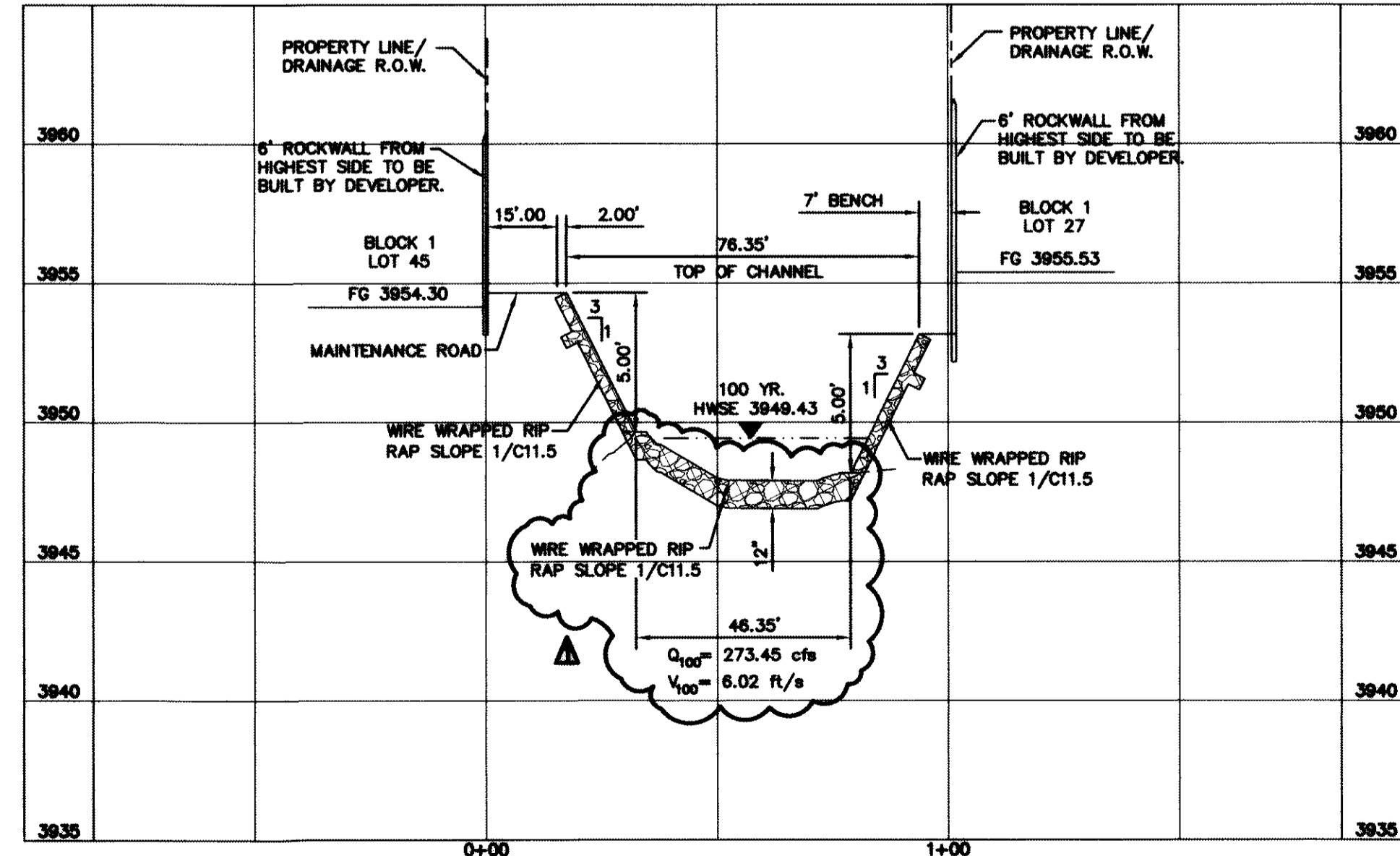
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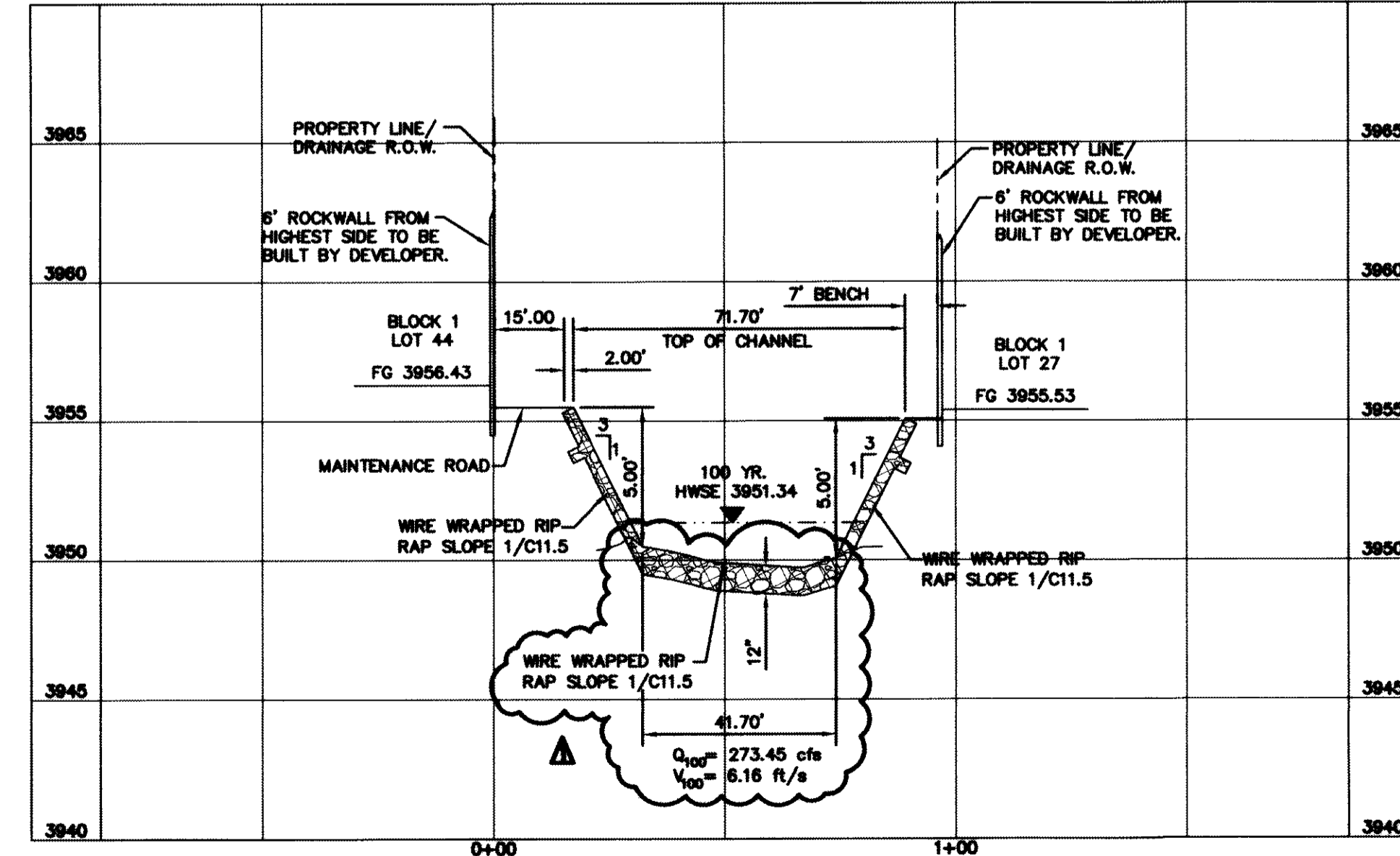
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SECTION 3020.68



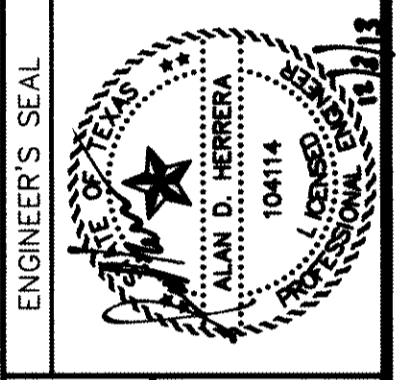
SECTION 3070.68



SECTION 3120.68

REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: **3935.93** (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NAVD 88 DATUM)
 3945.78 (NGVD 29 DATUM)
 TIE TO THE PROJECT BENCHMARK IS N00°50'52"E, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

DATE: _____ BY: _____
 REVISIONS: _____



SCALE: 1"=30'
 Horizontal: 1"=60'
 Vertical: 1"=6'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.A.
 APP'D. BY: A.H.
 JOB No. 2050-013-LD

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**HYBRID CHANNEL #1
 CROSS SECTIONS**
 (SHEET 1 OF 7)
 SHEET NO.

C9.8R

GENERAL NOTES:

1. THE SIDES OF THE CHANNEL SHALL BE WIRE TIED RIP RAP AS PER DETAIL 8/C11.3.
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RECORD DRAWINGS

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10/24/2013

BENCHMARK:

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 3946.11 (NAVD 88 DATUM)
 3945.78 (NOVD 29 DATUM)
 ELEVATION: 3935.93 (CITY OF EL PASO VERTICAL DATUM SHOWN)
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LEGEND

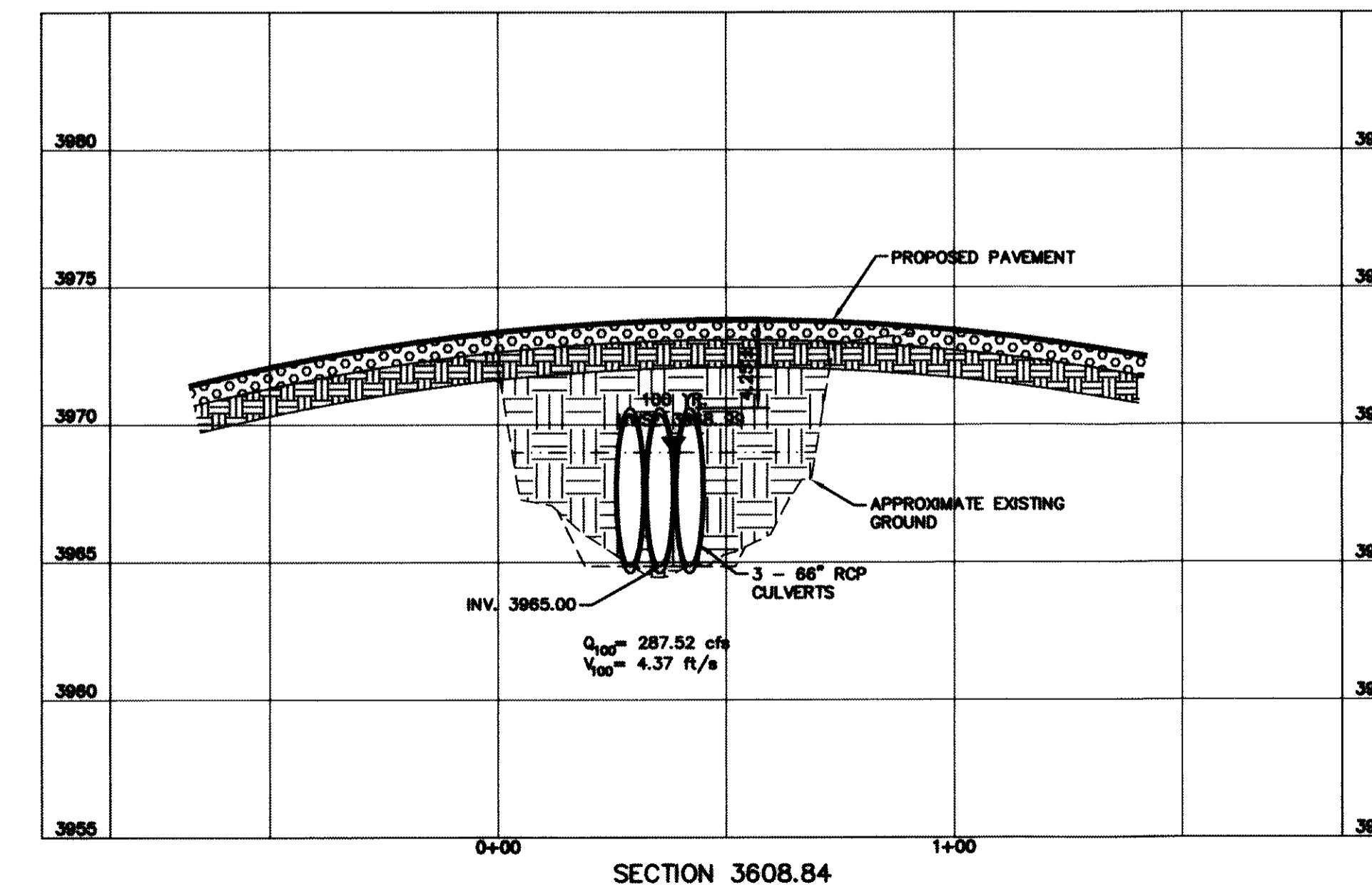
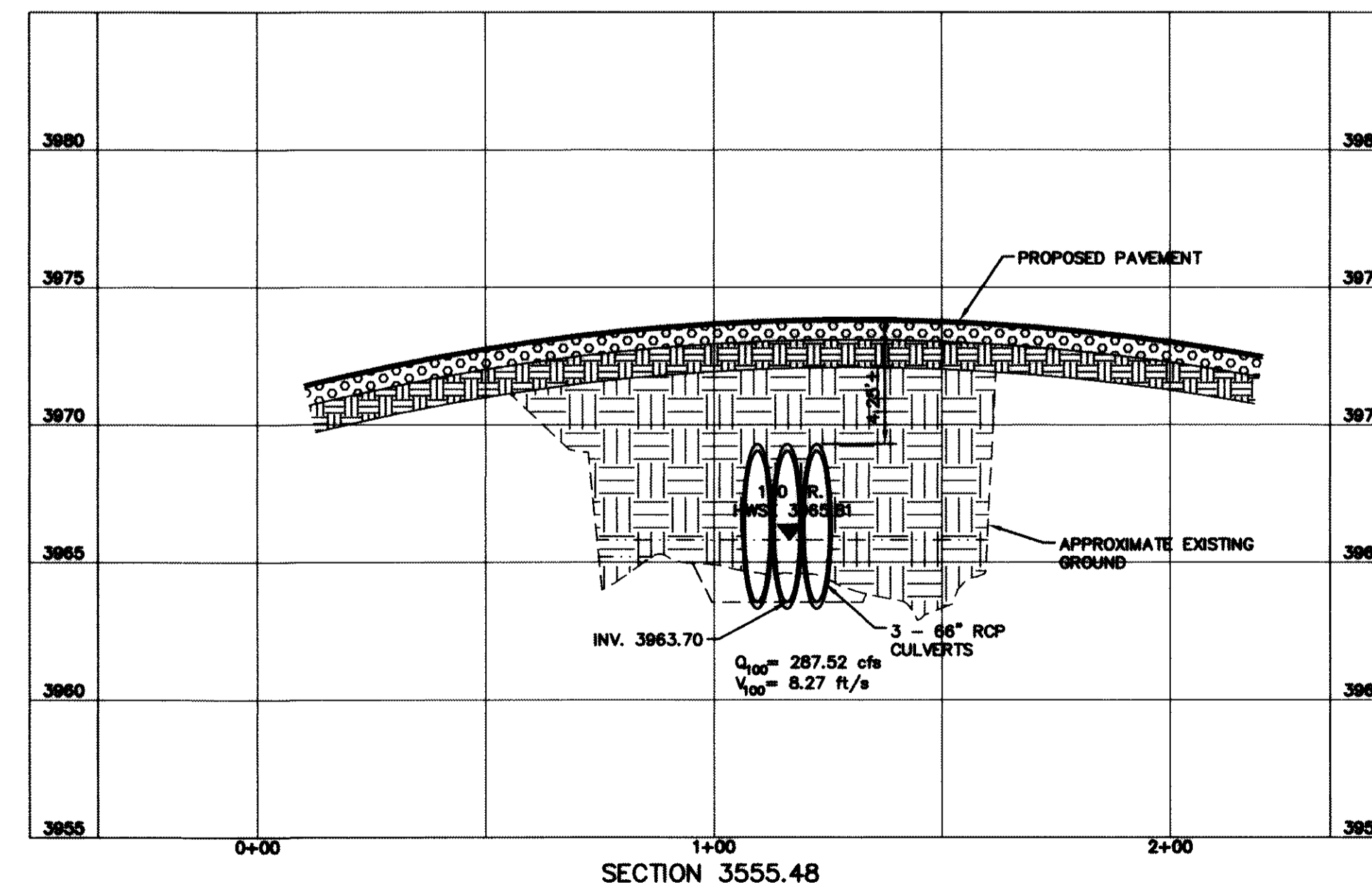
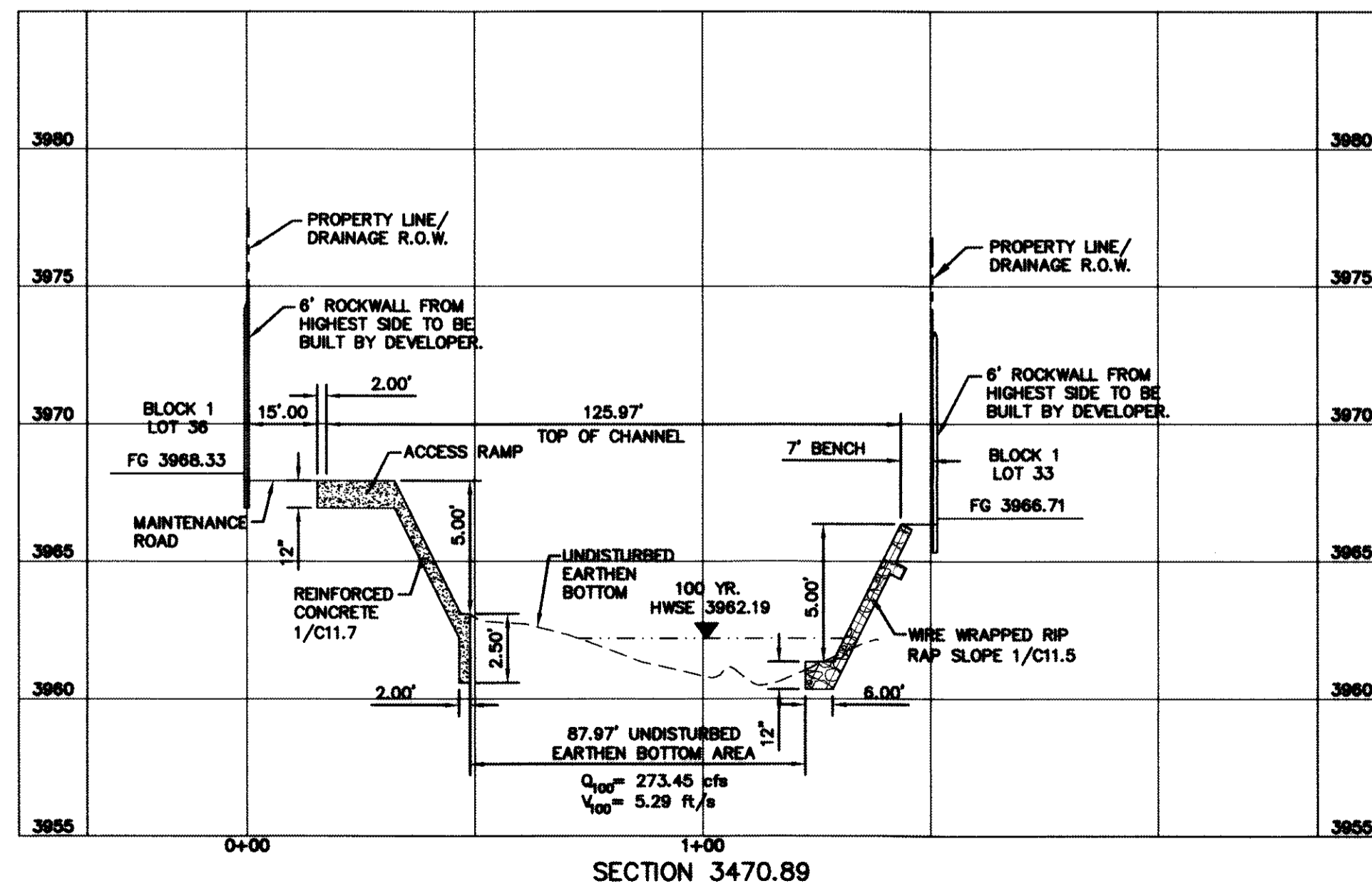
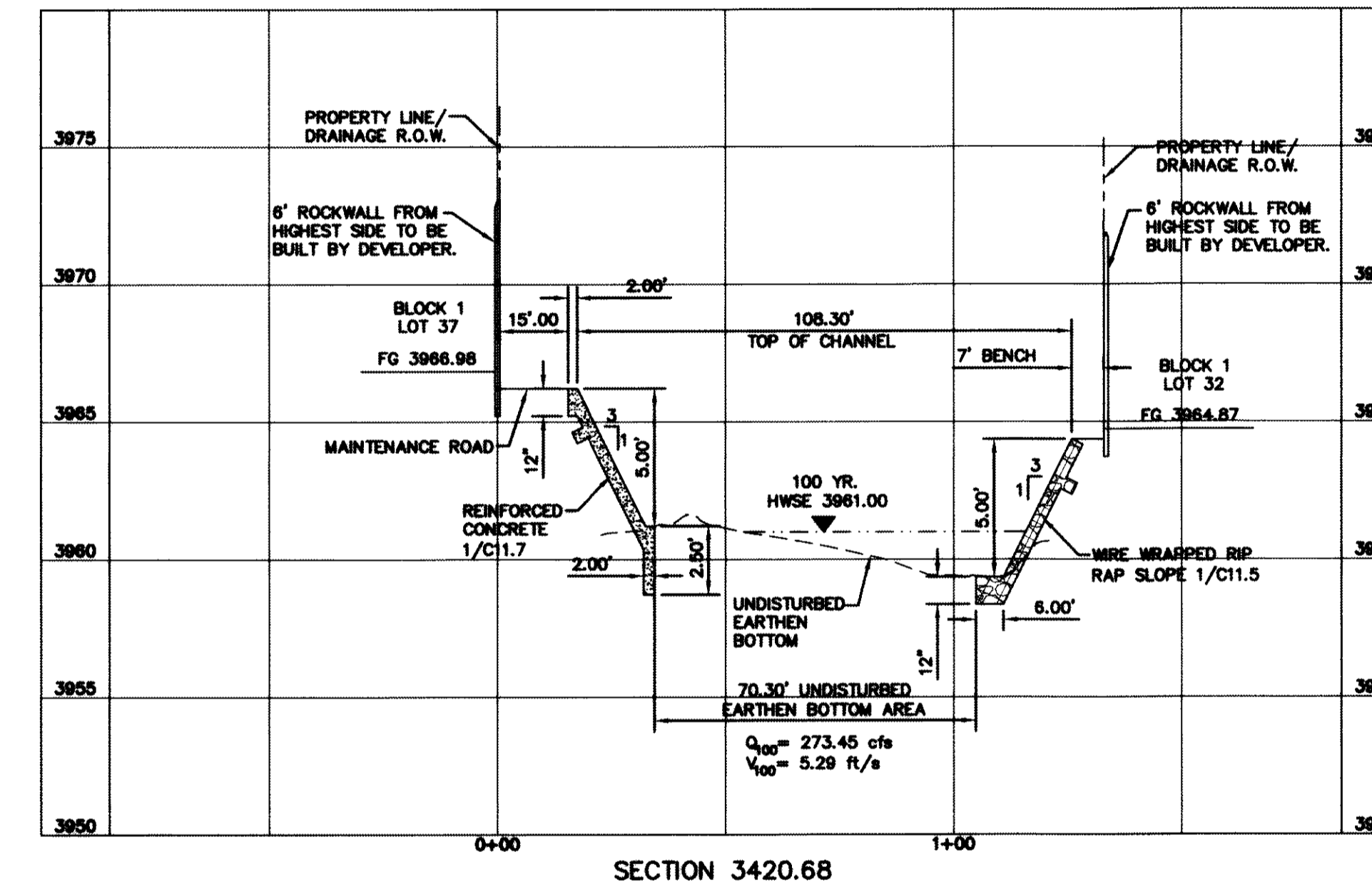
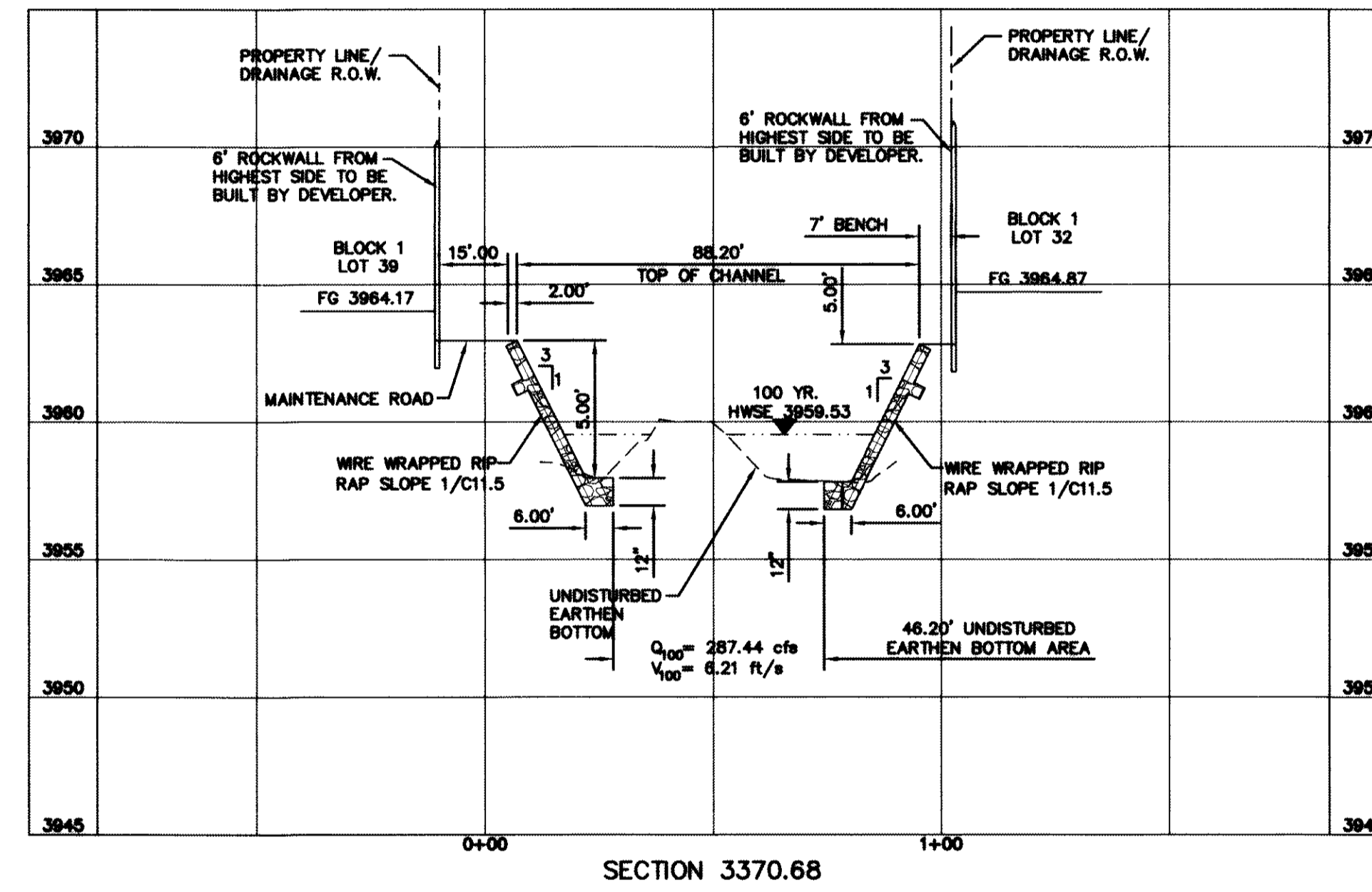
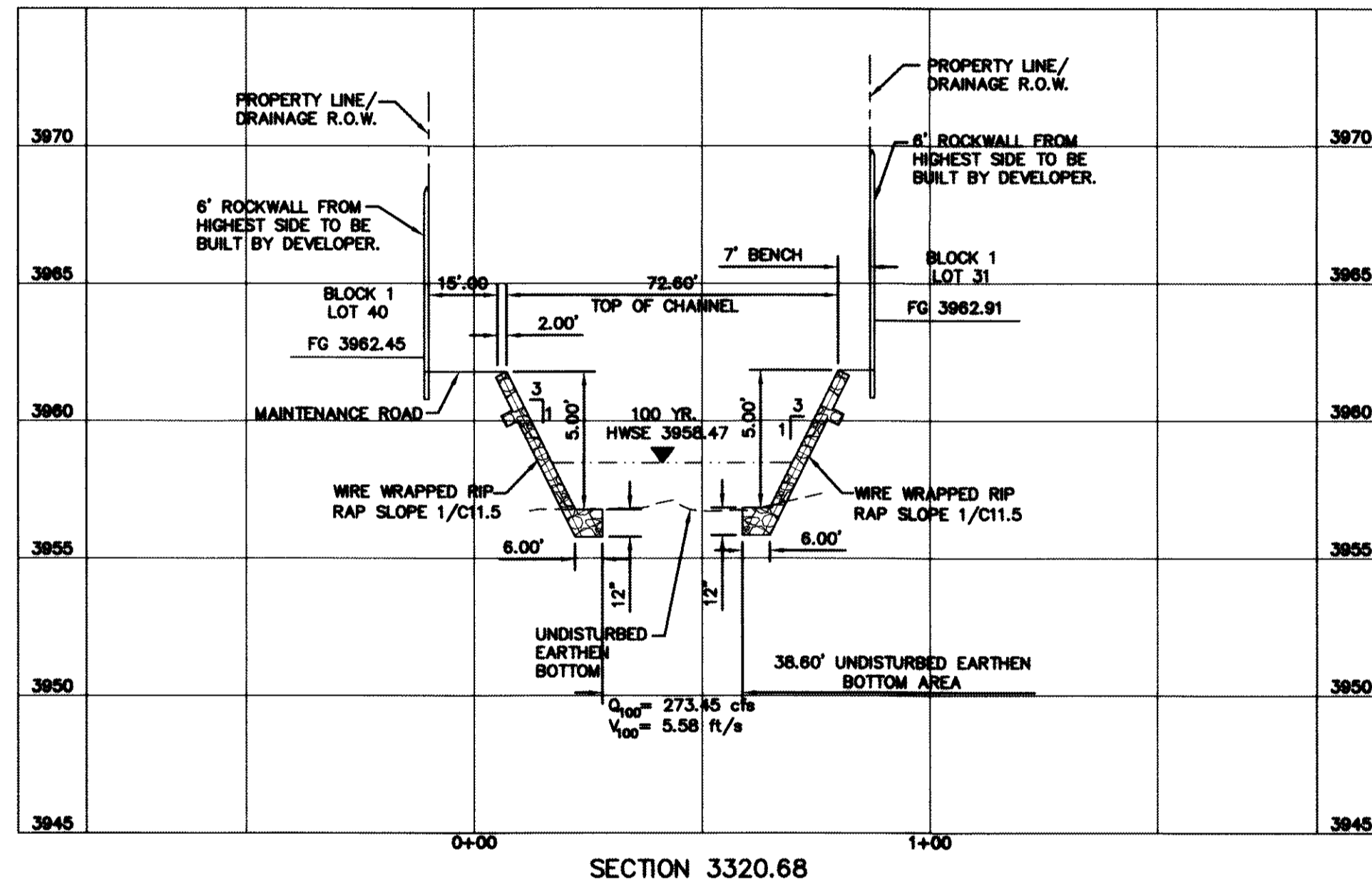
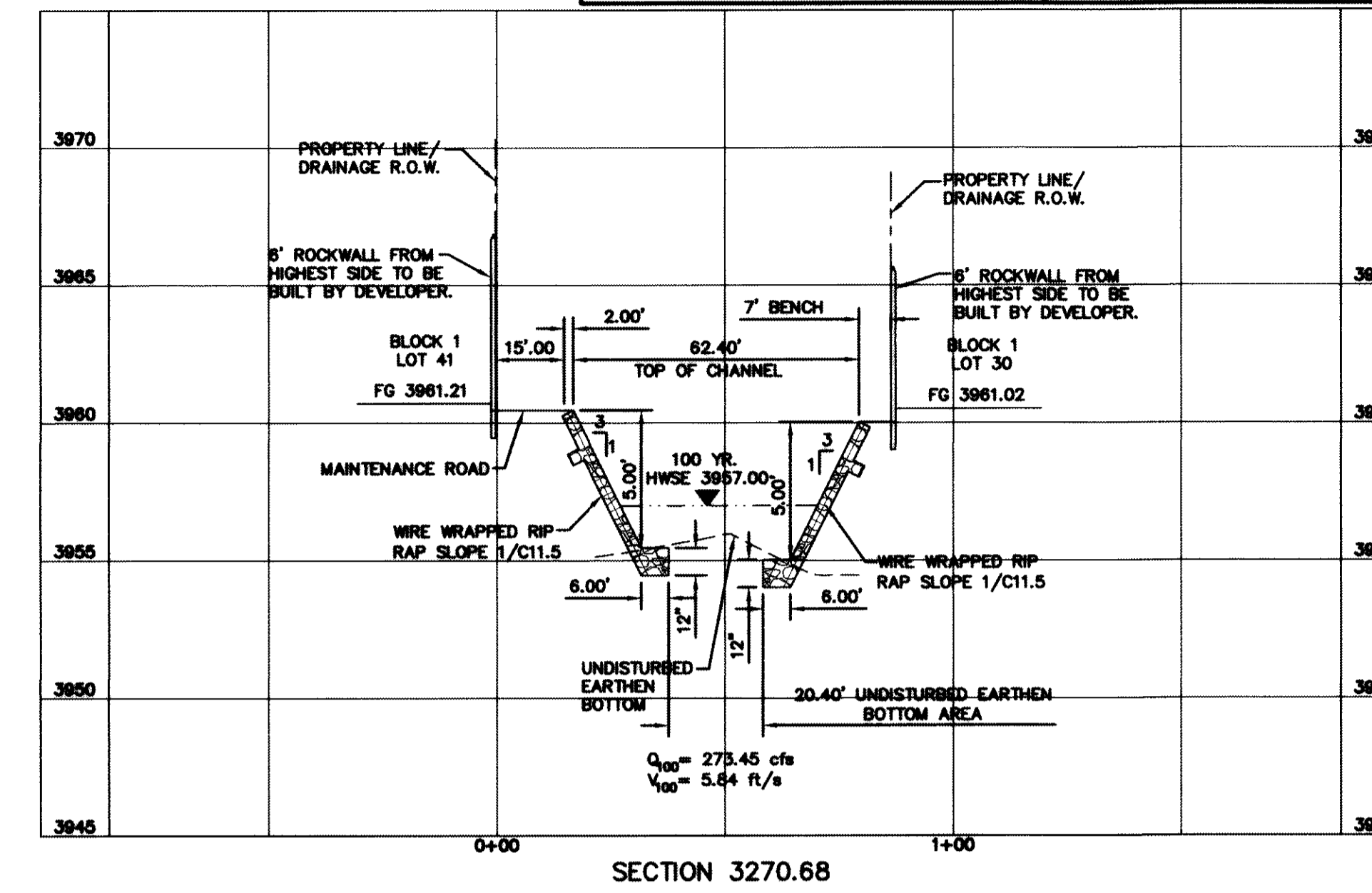
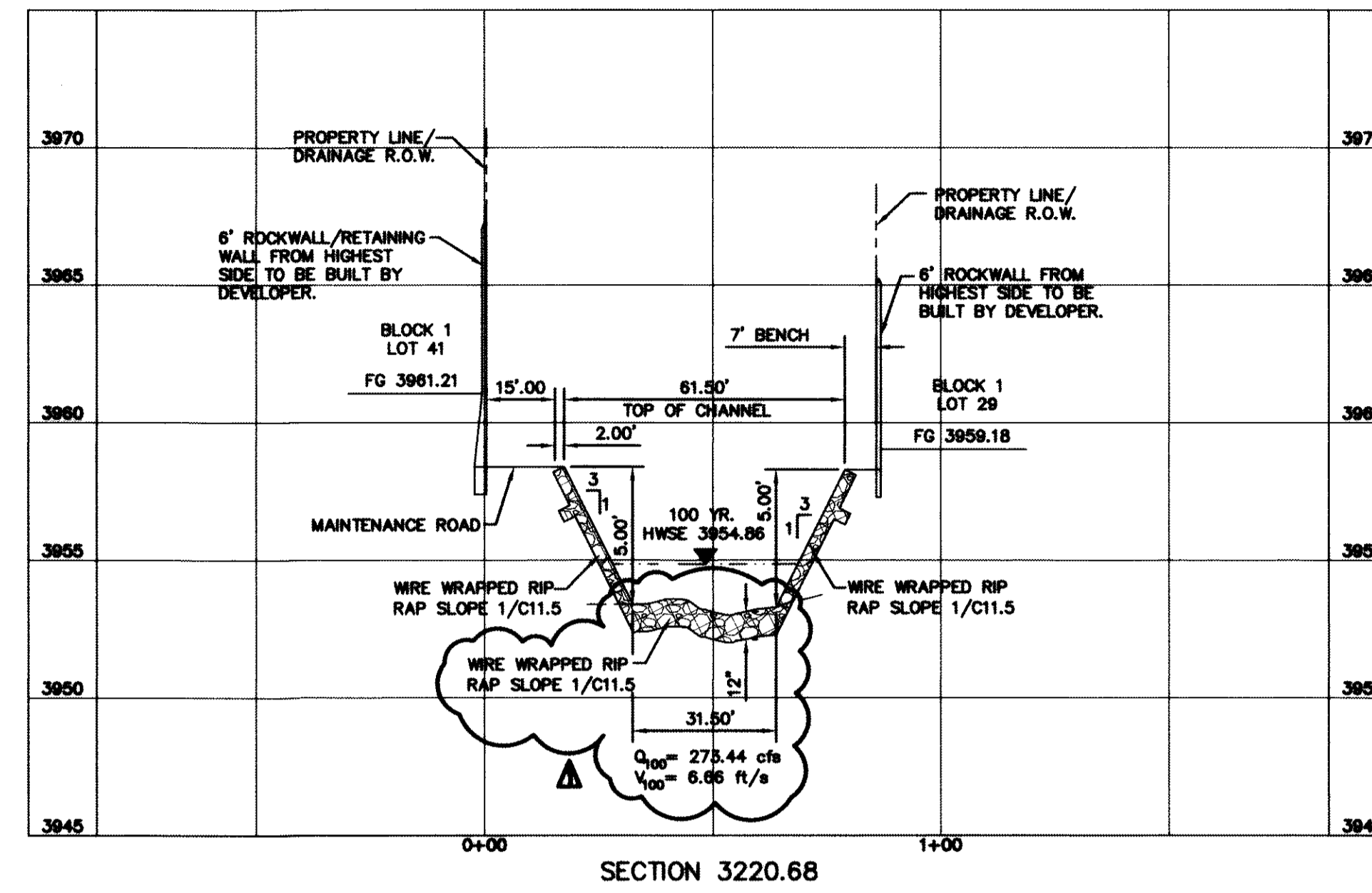
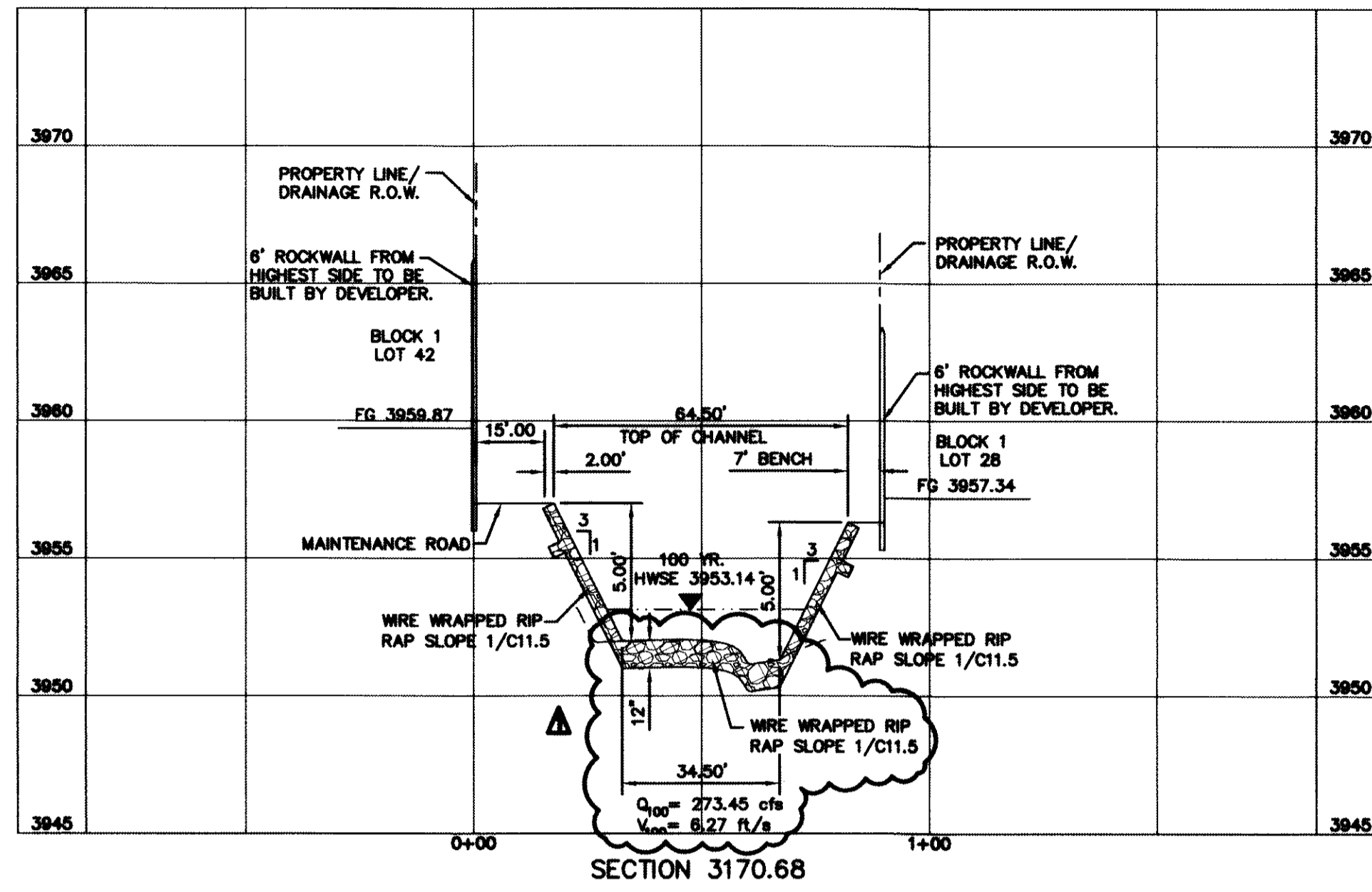
- 100 YR HWSE
- UNDISTURBED EARTHEN BERM

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
- ONEOK PARTNERS (915) 595-6918
- AT&T (800) 852-3786
- U.S. SPRINT TELECOMM (800) 521-0579
- CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750 (AFTER HOURS)
- (915) 240-3220

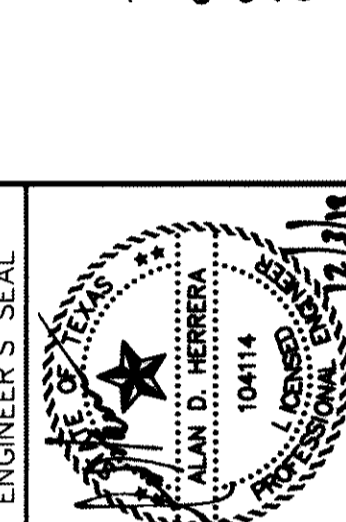
WARNING ! BEFORE YOU DIG

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 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES



REFERENCES — BENCHMARKS
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 3945.78 (NOVD 29 DATUM)
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DATE: 10/24/13
 BY: [Signature]
 REVISIONS: [Table]



ENGINEER'S SEAL
 SCALE: 1" = 30'
 Horizontal: 1" = 6'
 Vertical: 1" = 6'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 CHECKED BY: J.H.A.
 APPROVED BY: A.H.
 JOB No. 2009-013-LD

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

HYBRID CHANNEL #1 CROSS SECTIONS

(SHEET 2 OF 7)

SHEET NO.

C9.9R

GENERAL NOTES:

1. THE SIDES OF THE CHANNEL SHALL BE WIRE TIED RIP RAP AS PER DETAIL 8/C11.3.
2. ACCESS RAMPS OF THE CHANNEL SHALL BE REINFORCED CONCRETE AS PER DETAIL 1/C11.7
3. REINFORCED CONCRETE ACCOMMODATIONS SHALL BE AS PER DETAIL 7/C11.5

RECORD DRAWINGS
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 10/24/2013

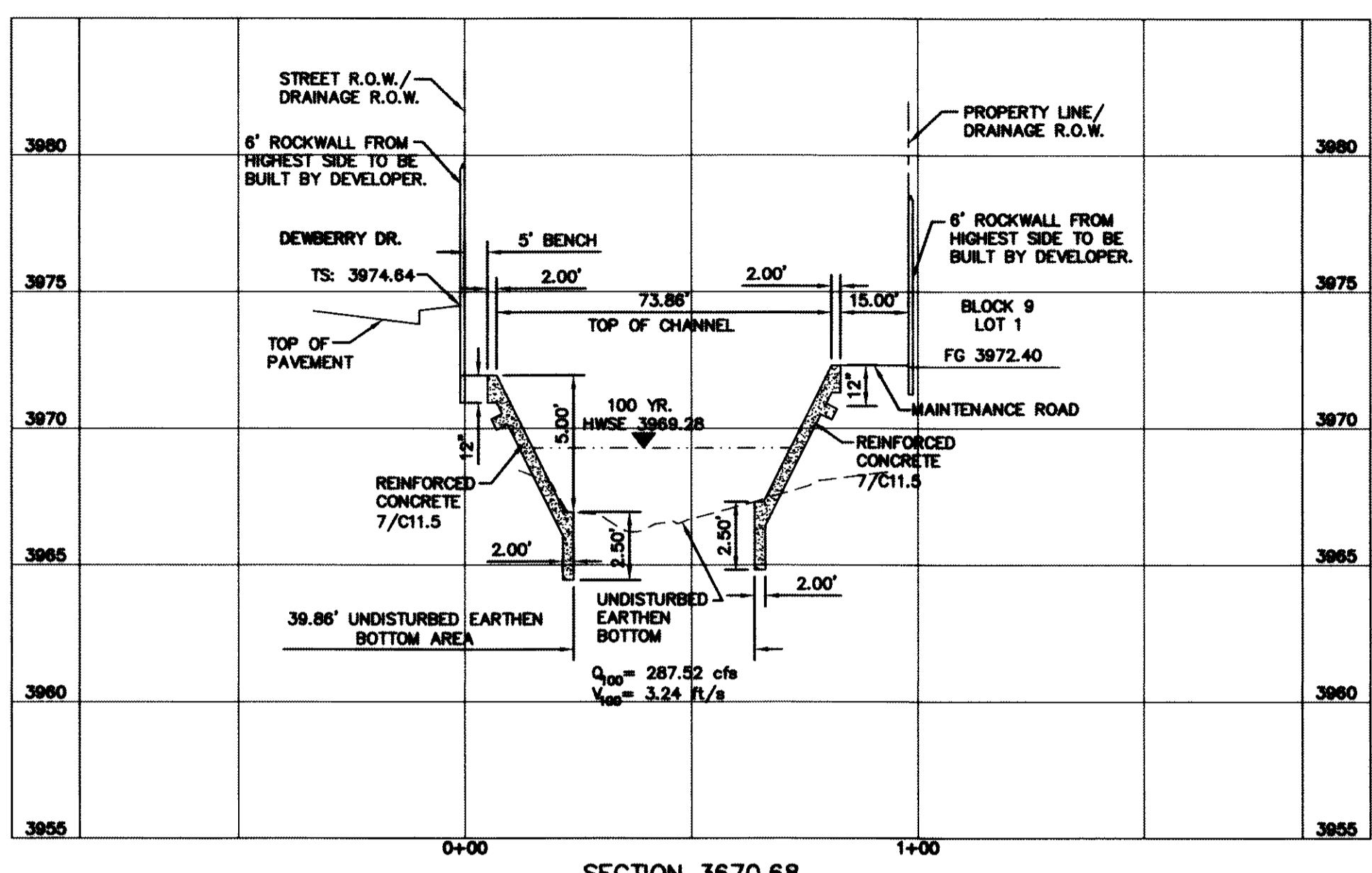
BENCHMARK:

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3835.93 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NAVD 88 DATUM)
 3945.78 (NGVD 29 DATUM)
 TIE TO THE PROJECT BENCHMARK IS N00°50'52"E, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

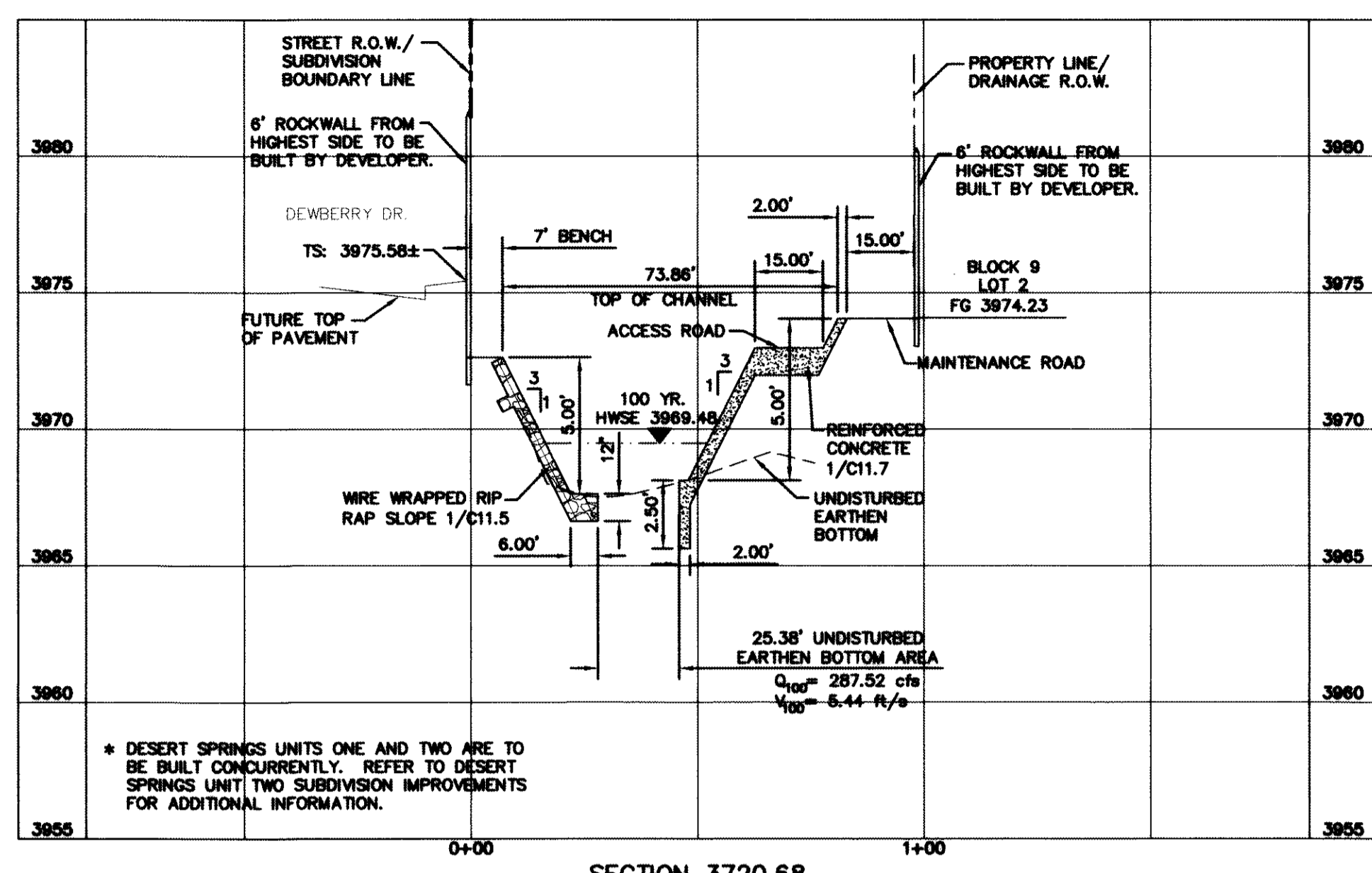
UTILITY LOCATOR SERVICES

| | |
|--|----------------|
| 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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| ONEOK PARTNERS | (915) 595-6918 |
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| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

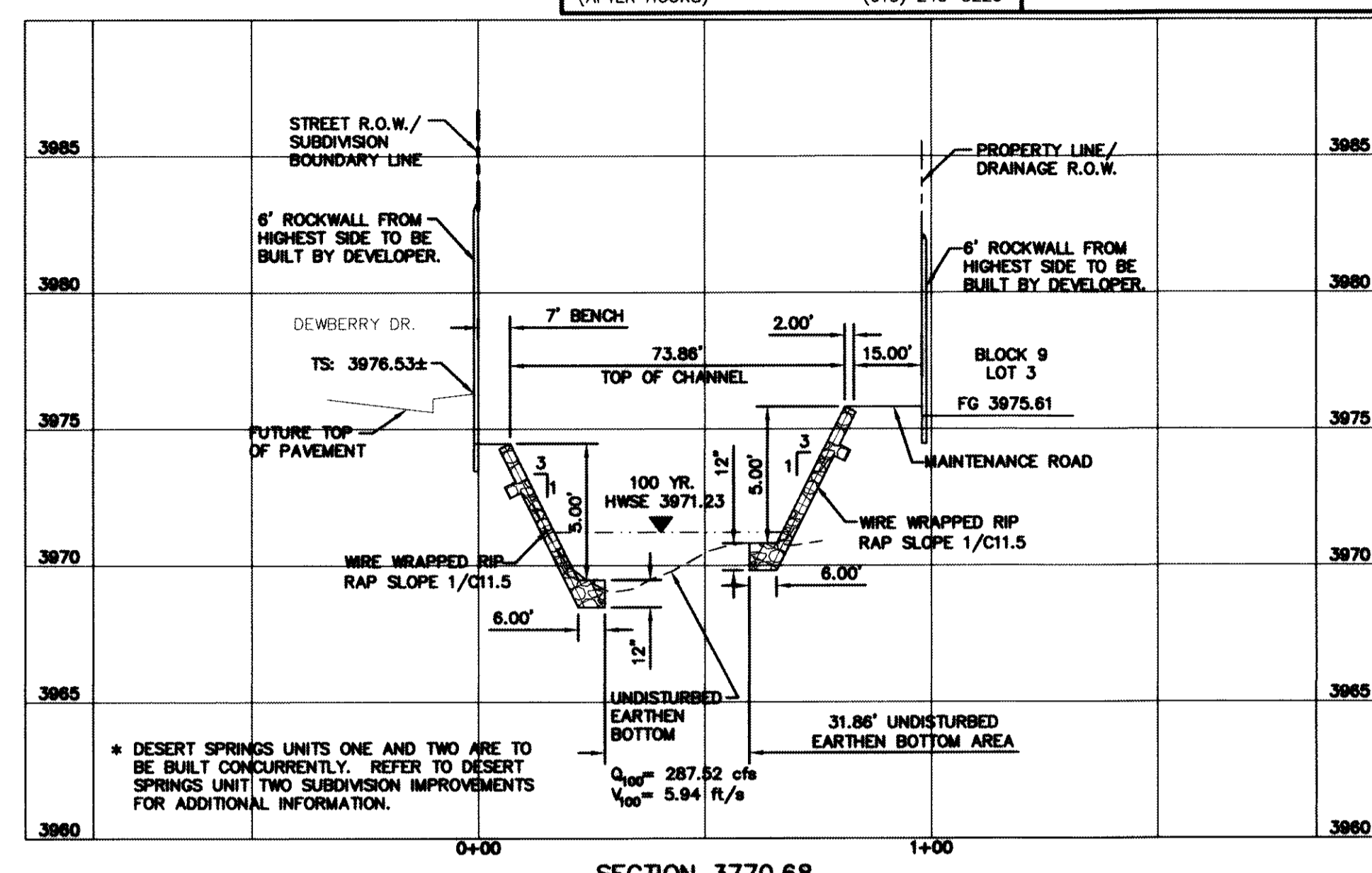
WARNING!
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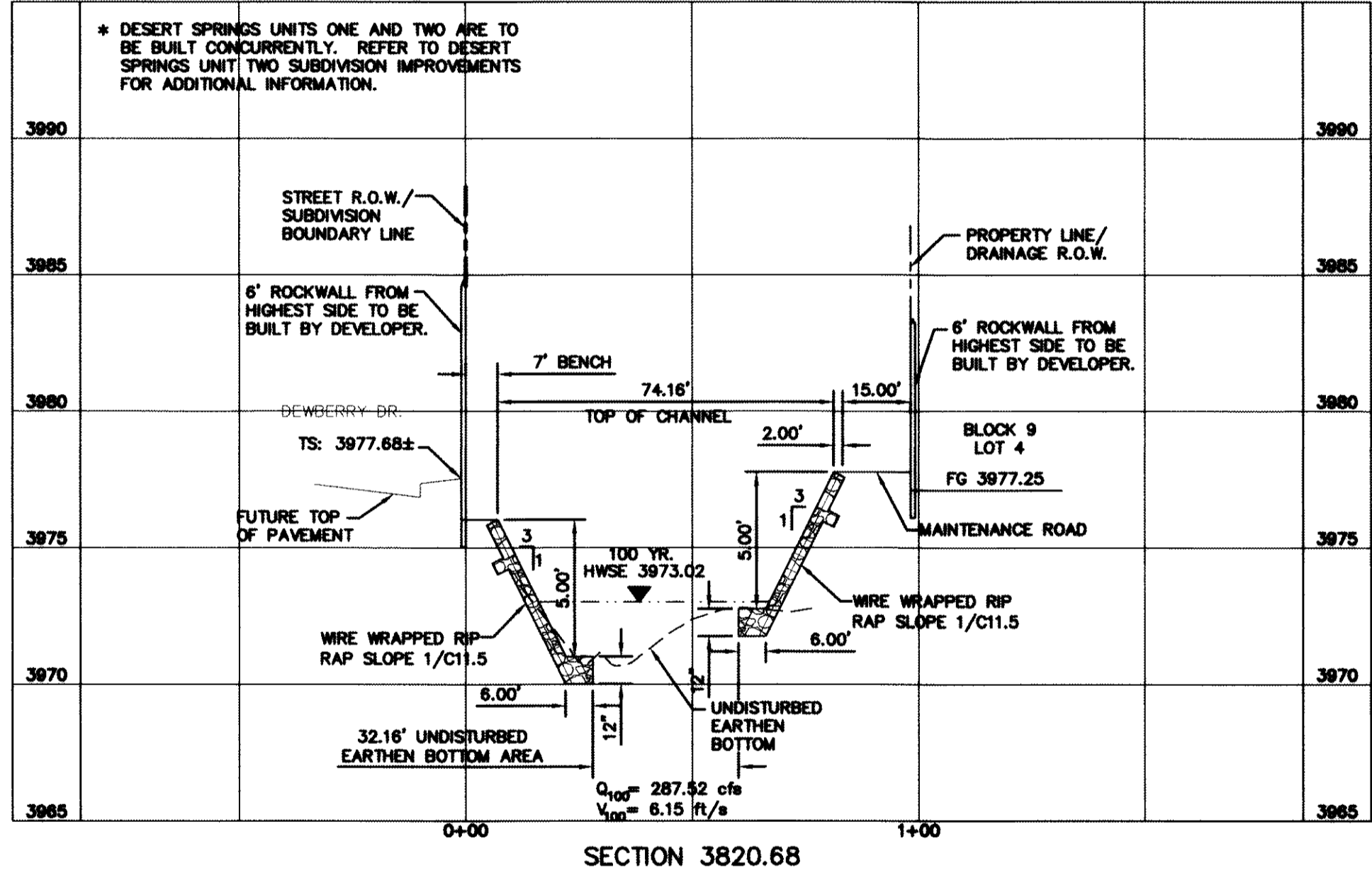
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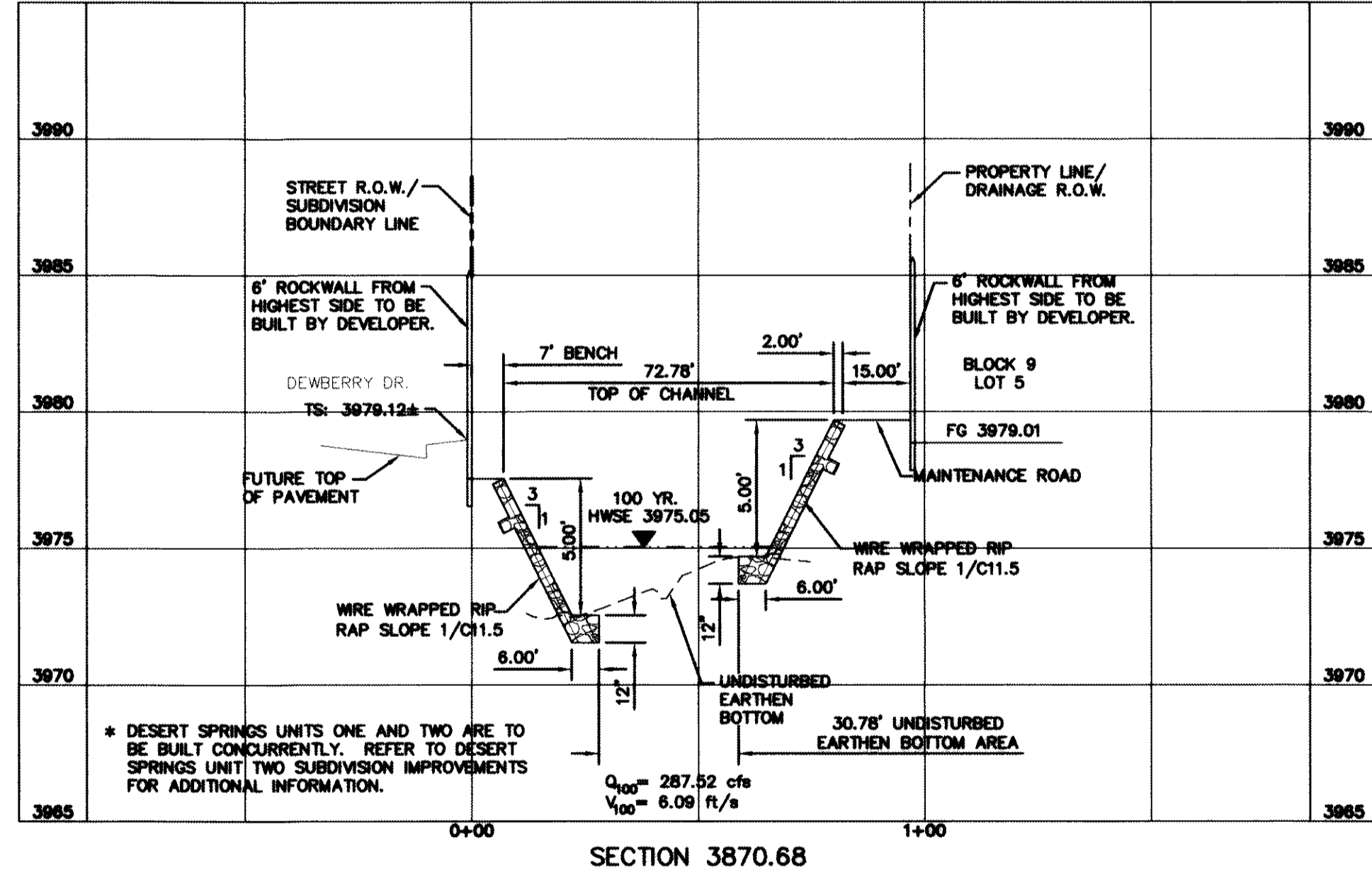
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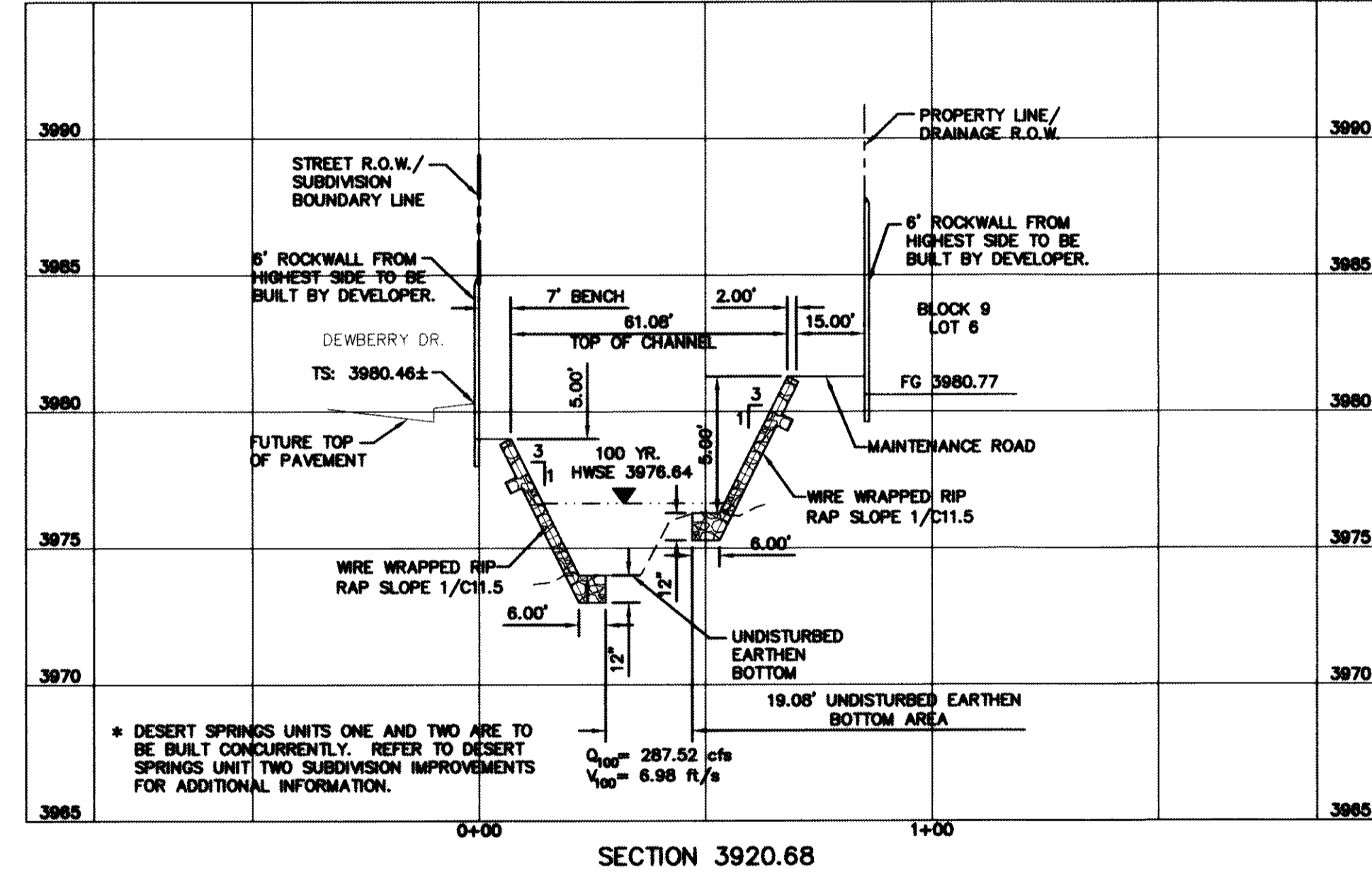
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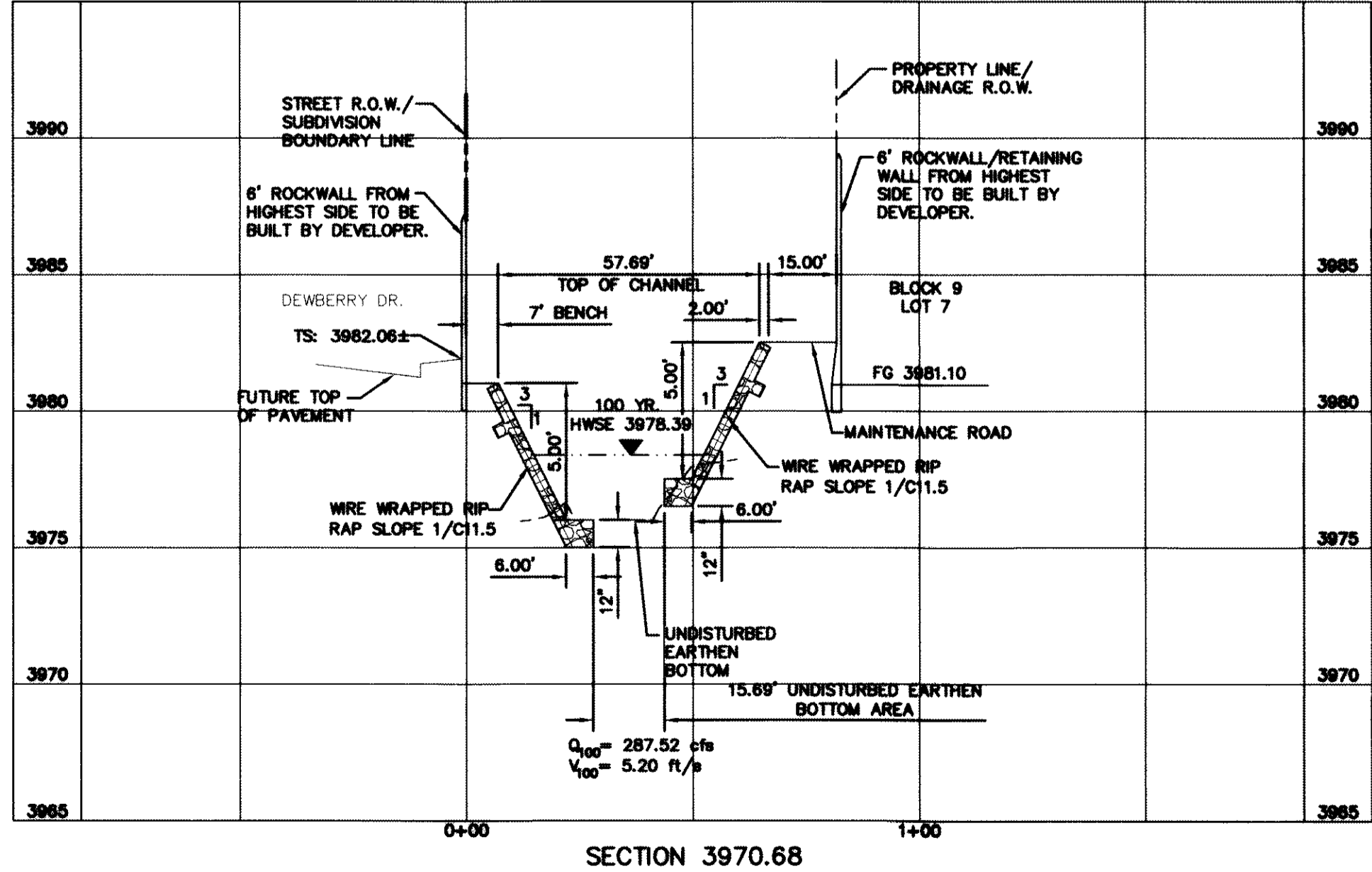
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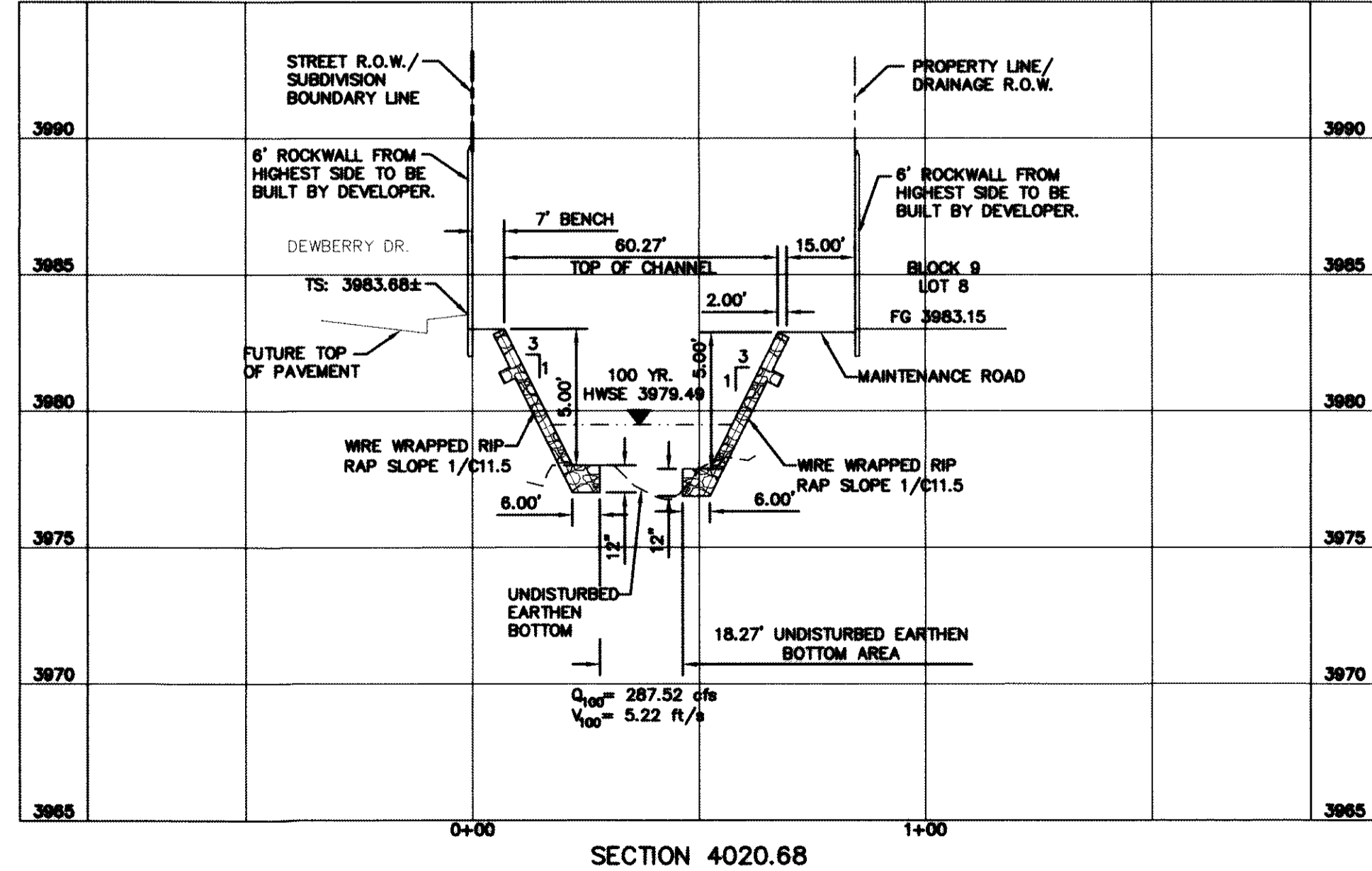
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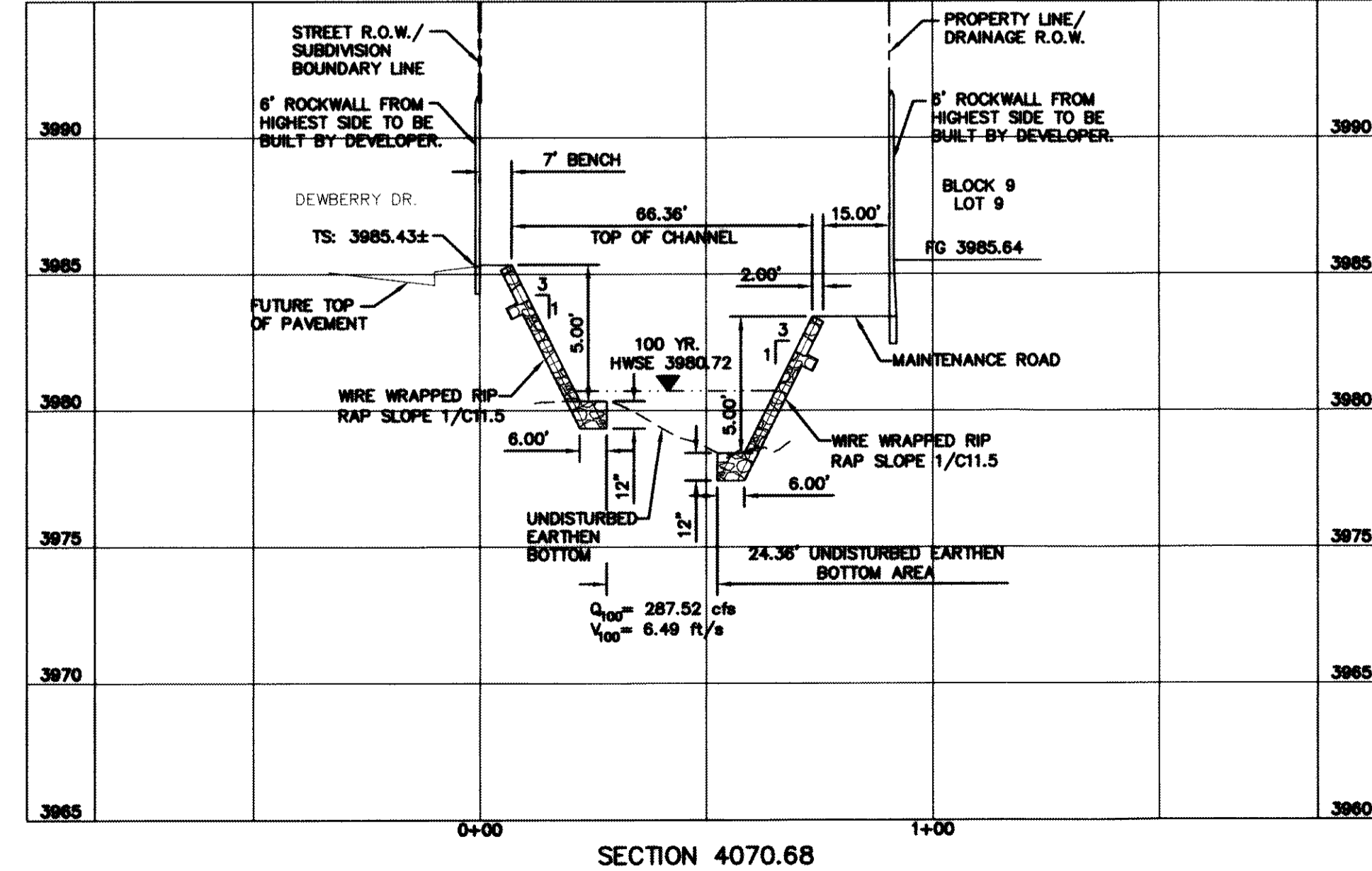
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SECTION 3970.68



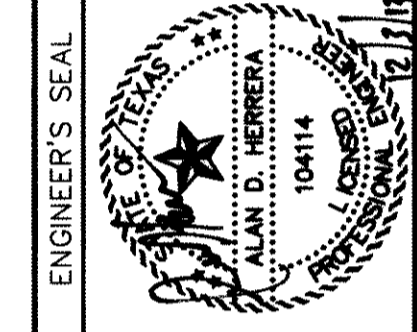
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SECTION 4070.68

REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3835.93 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NAVD 88 DATUM)
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CEA GROUP
 engineers • architects • planners
 Center: 1711 Fannin Mountain
 Circle, El Paso, TX 79904
 Phone: 915.544.5232 Fax: 915.544.5233 www.ceagroup.com
 TEXAS FIRM REGISTRATION NO. 4864



SCALE: 1" = 30'
 Horizontal: 1" = 60'
 Vertical: 1" = 6'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHECKED BY: J.H.A.
 APPROVED BY: A.H.
 JOB No. 2050-013-1D

**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
 HYBRID CHANNEL #1 CROSS SECTIONS
 (SHEET 3 OF 7)
SHEET NO.

C9.10

GENERAL NOTES:

1. THE SIDES OF THE CHANNEL SHALL BE WIRE TIED RIP RAP AS PER DETAIL 8/C11.3.
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10/24/2013

BENCHMARK:

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 ELEVATION: 3935.93 (CITY OF EL PASO VERTICAL DATUM SHOWN)
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LEGEND

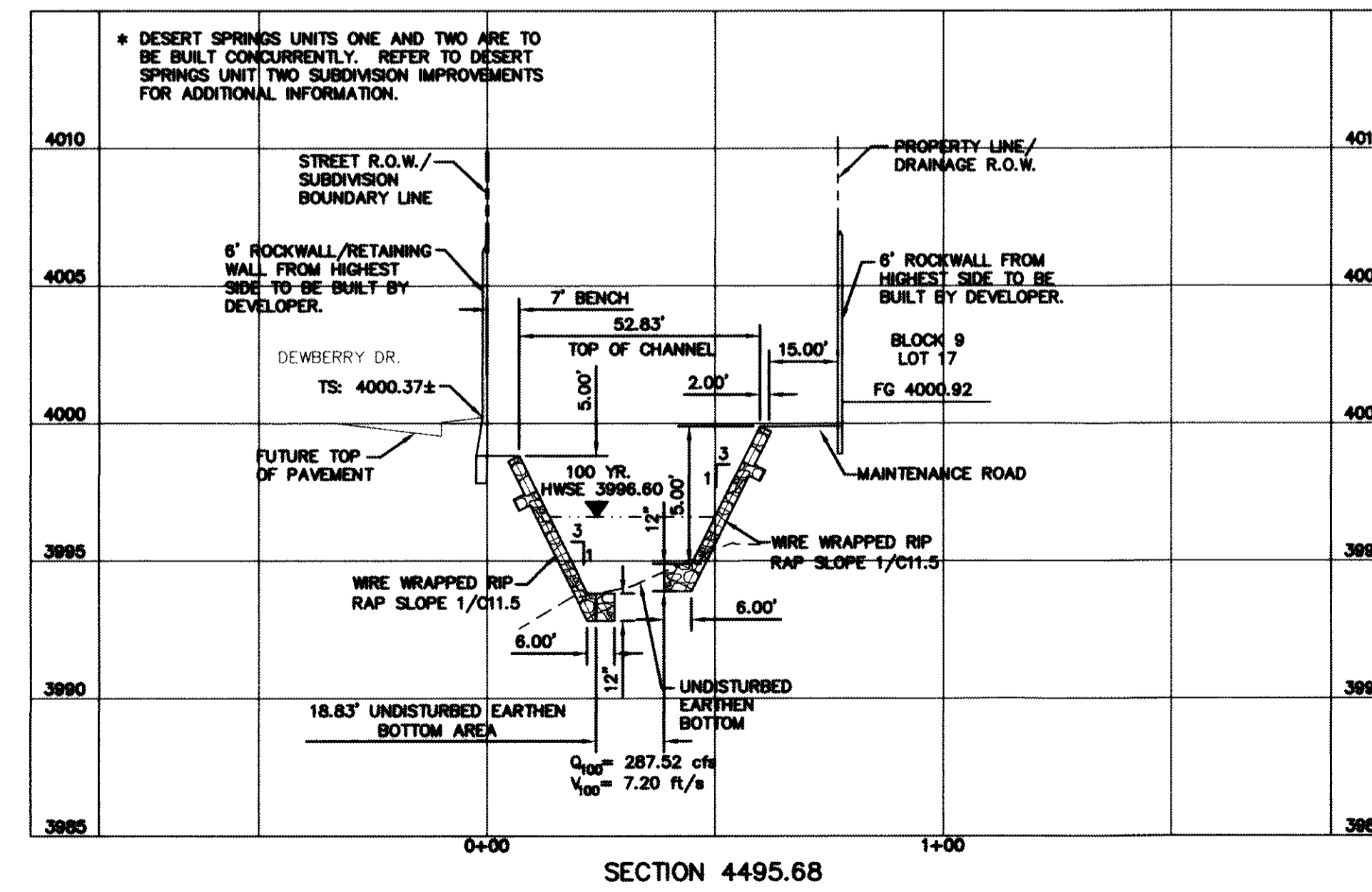
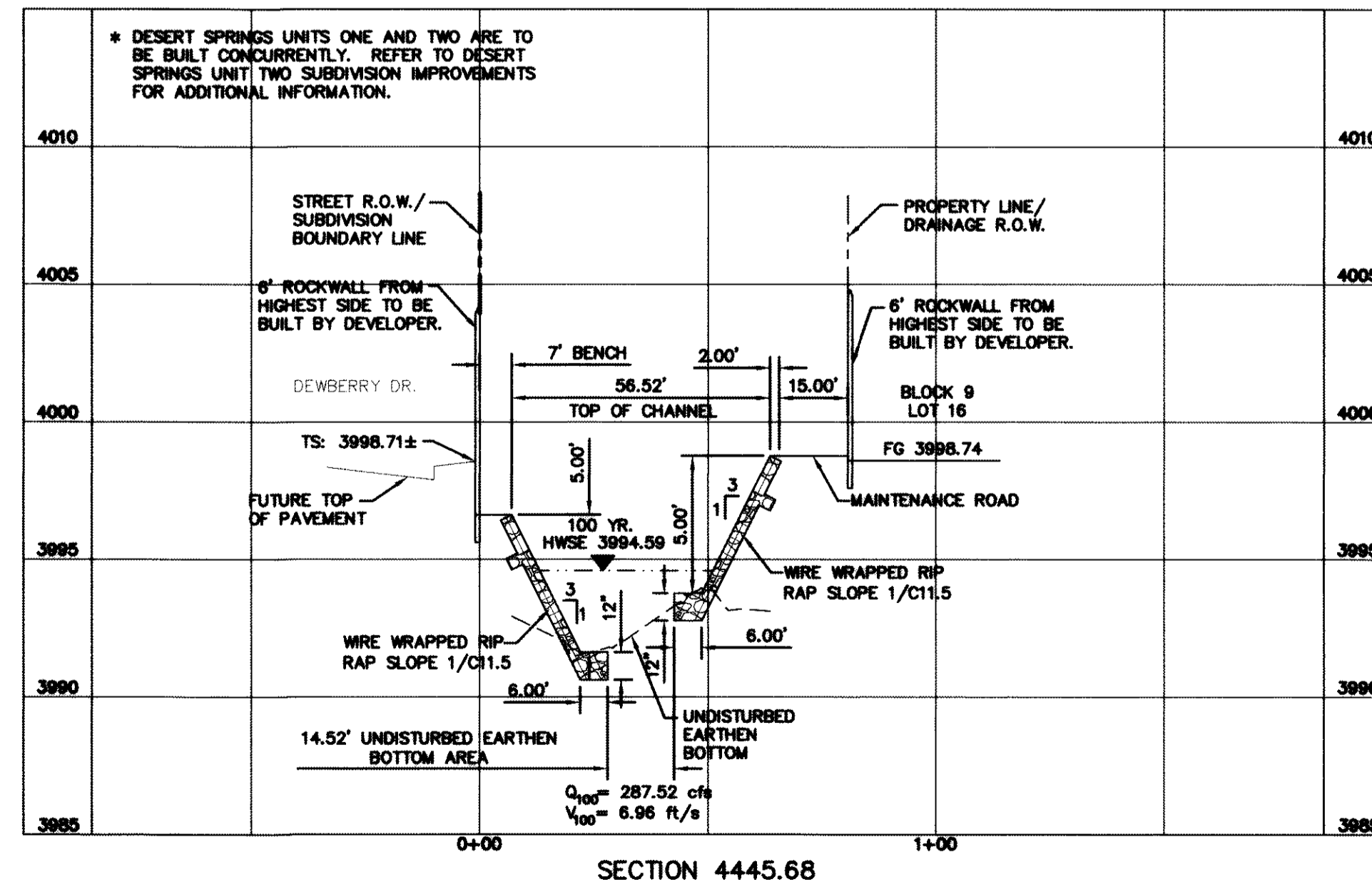
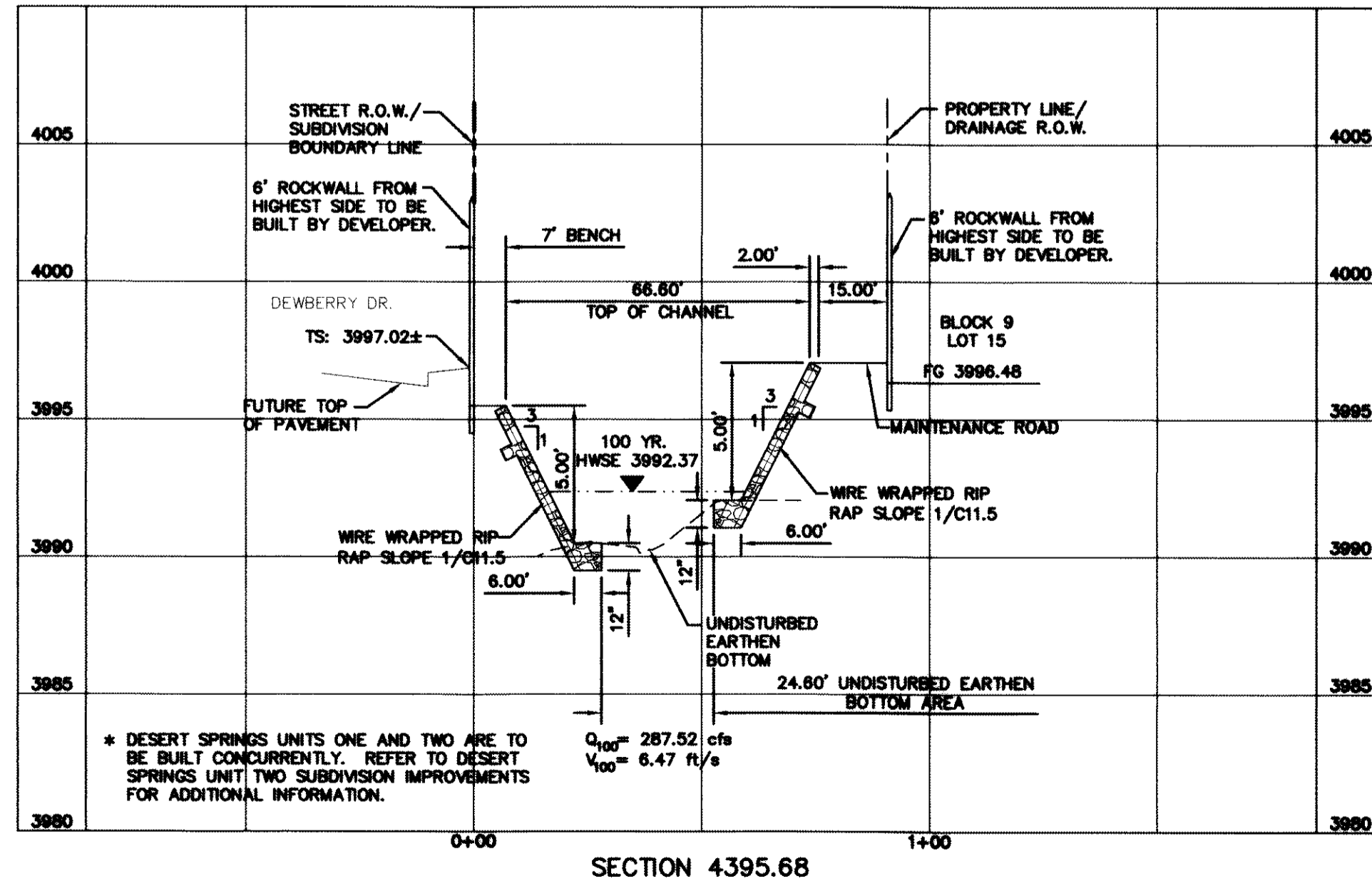
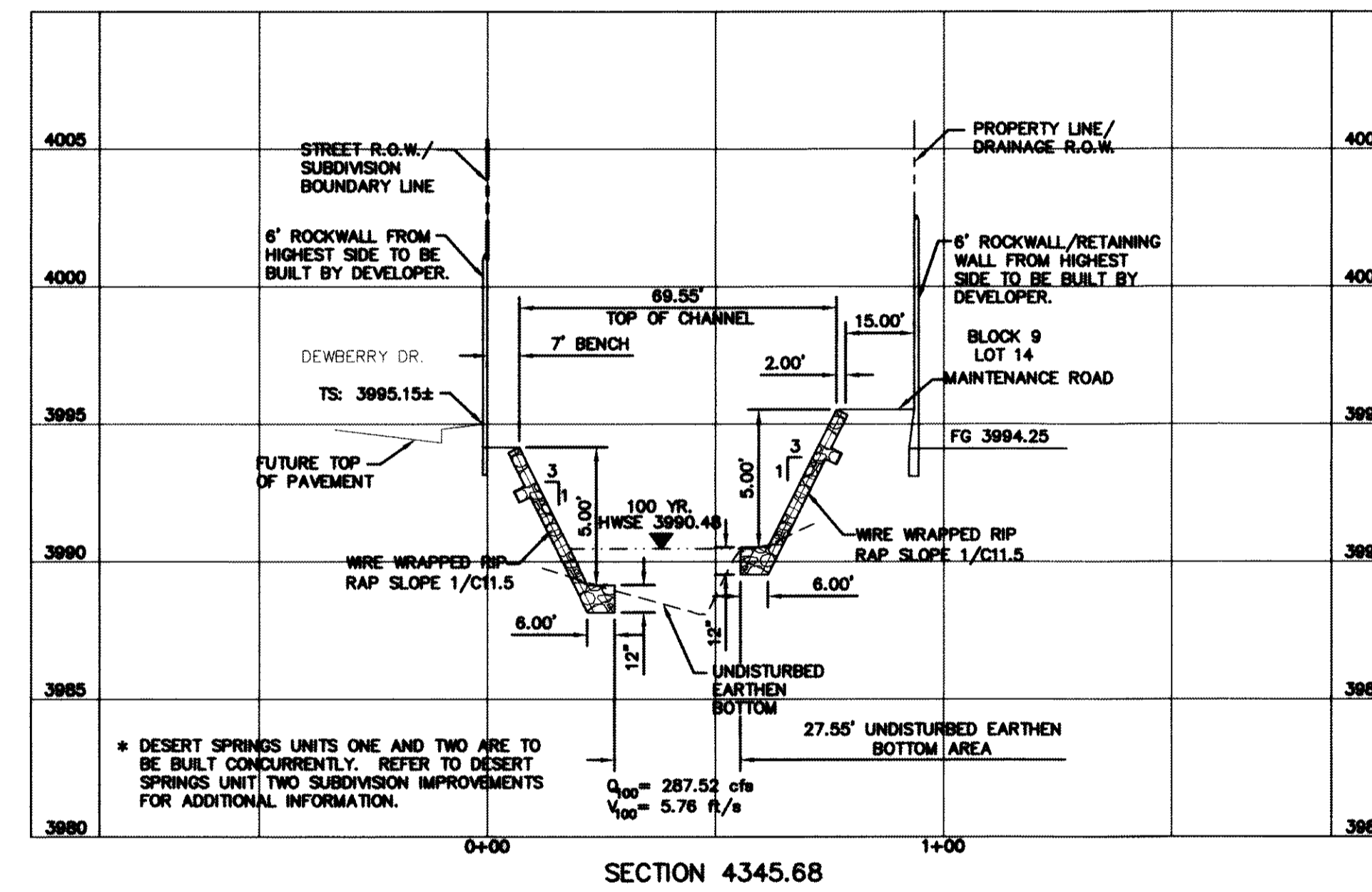
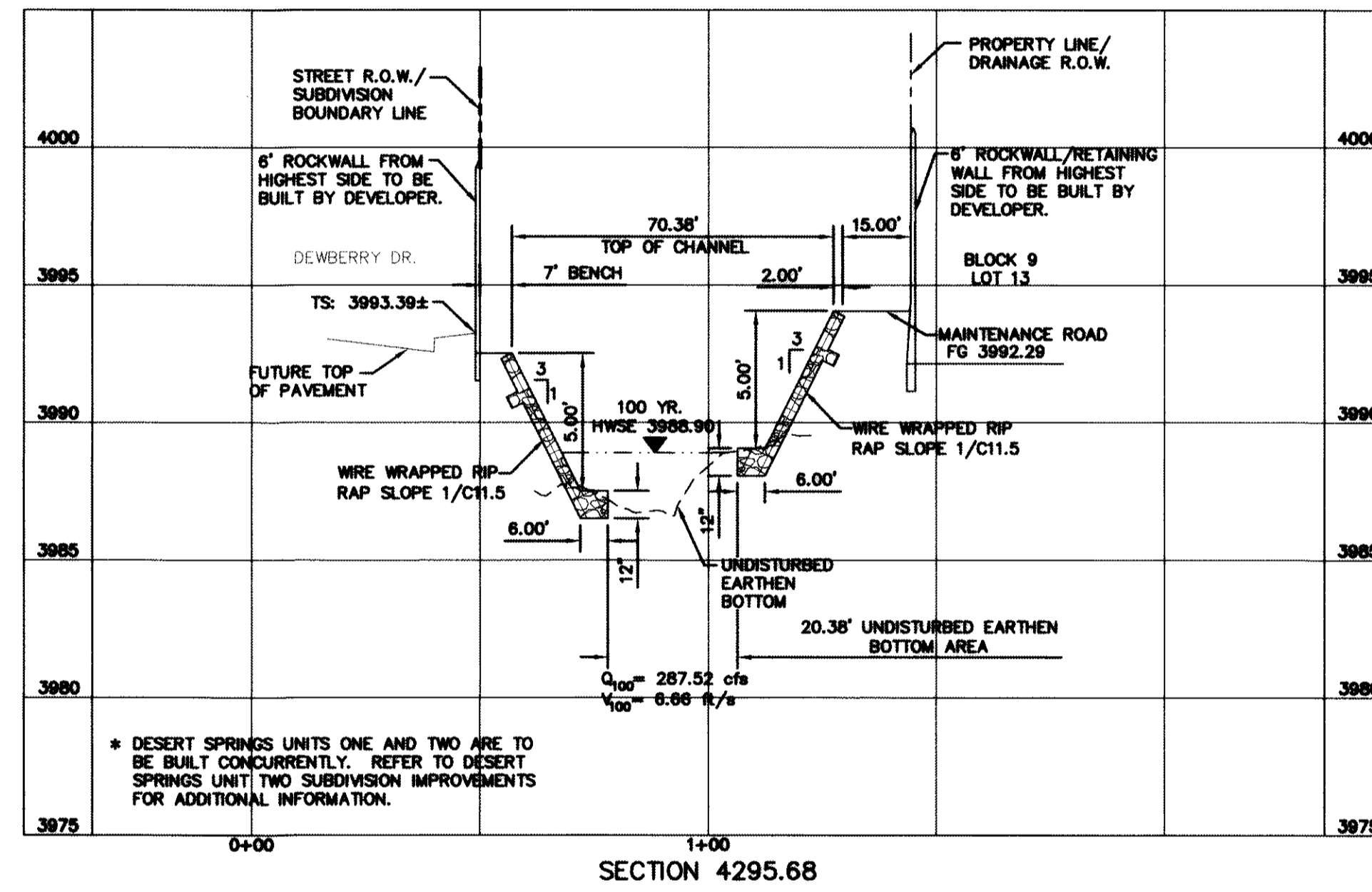
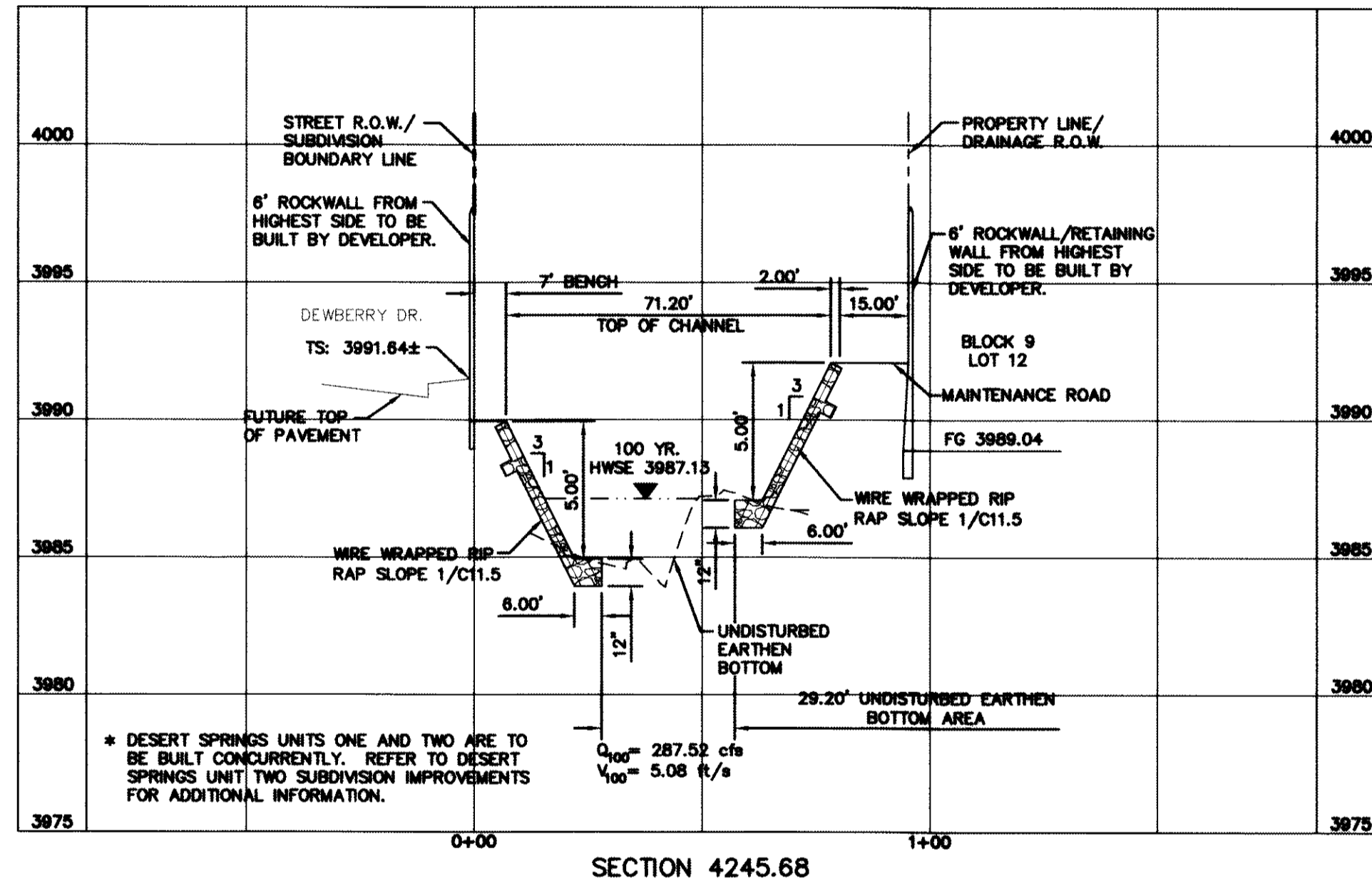
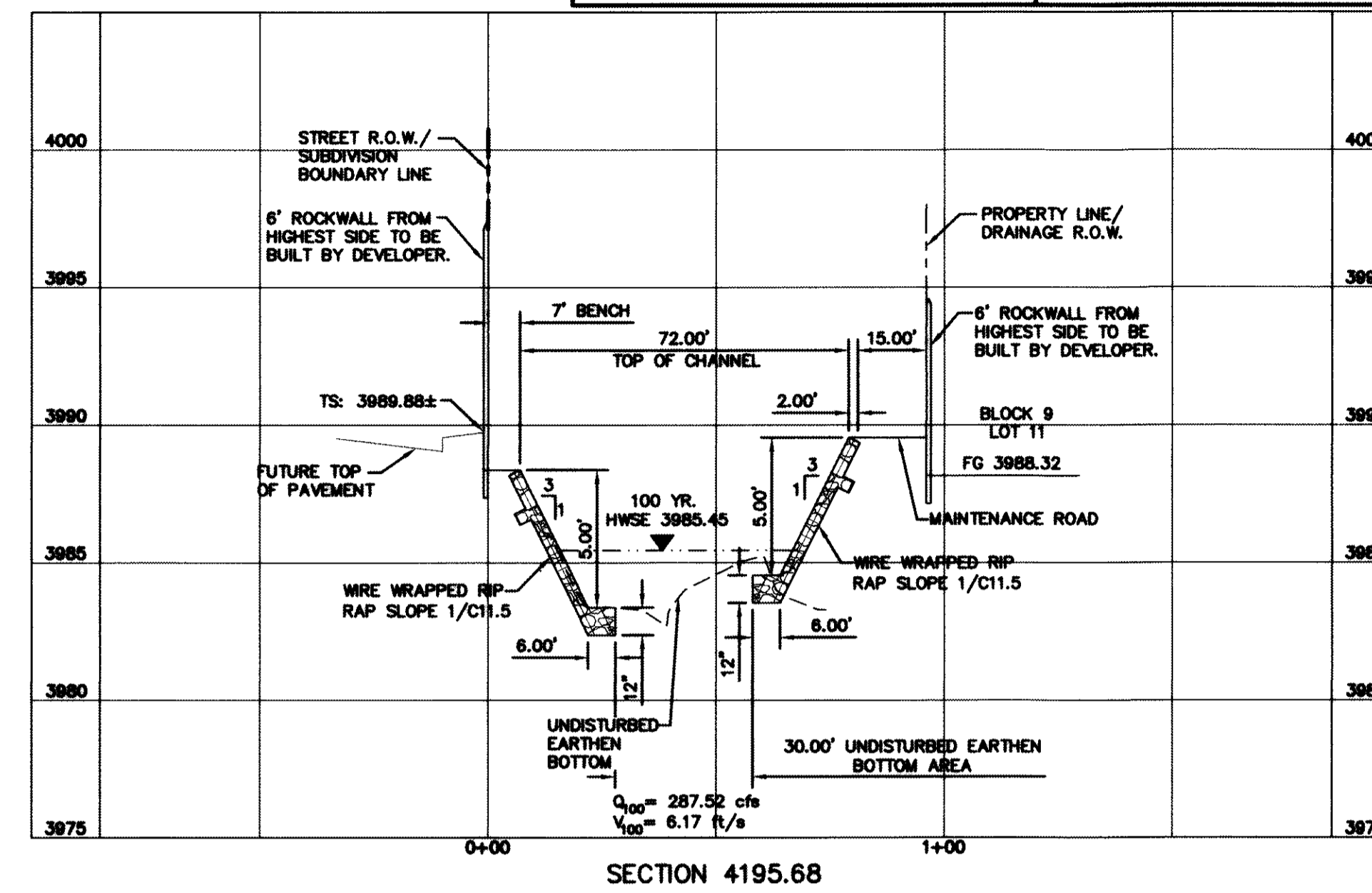
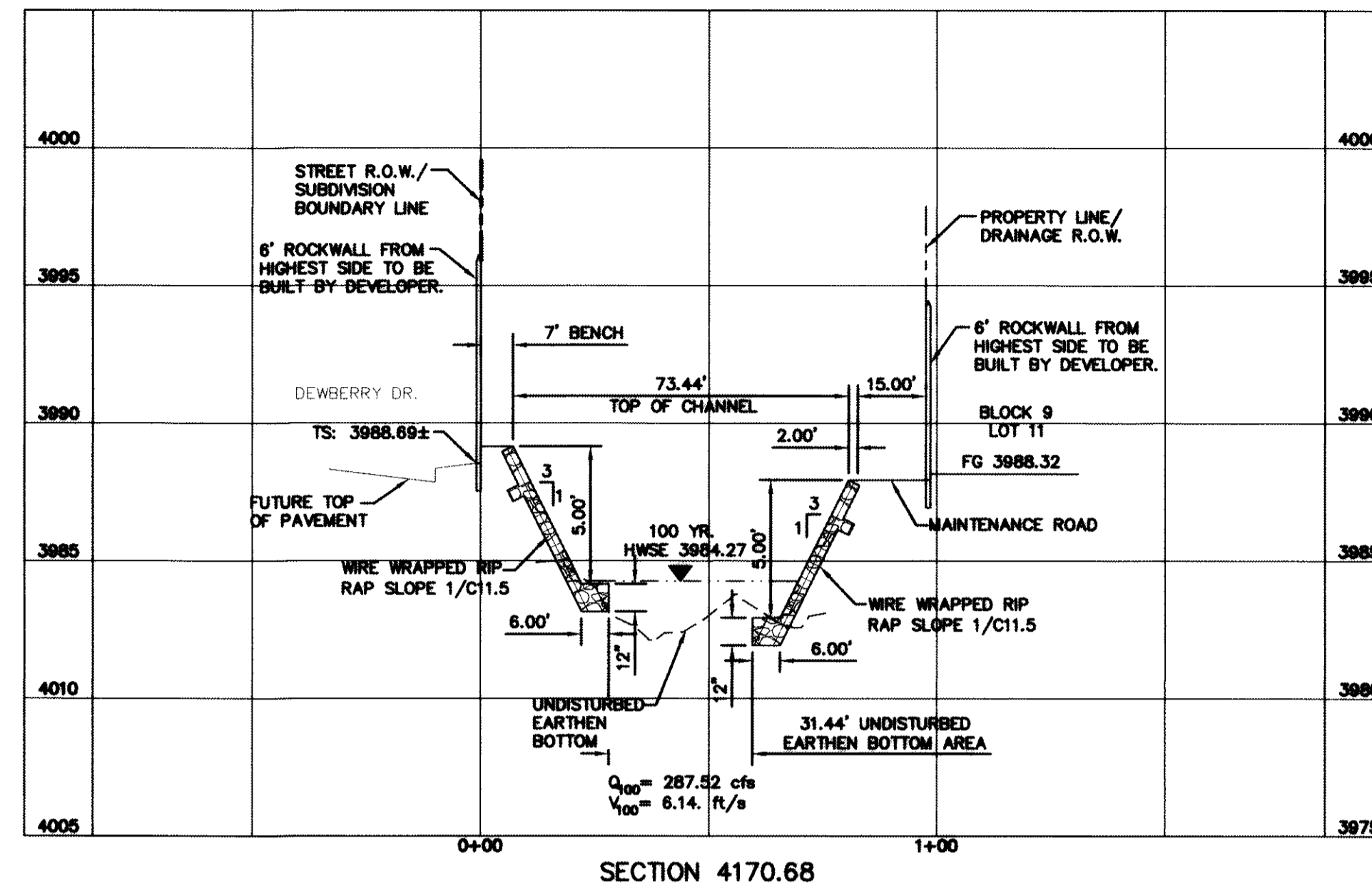
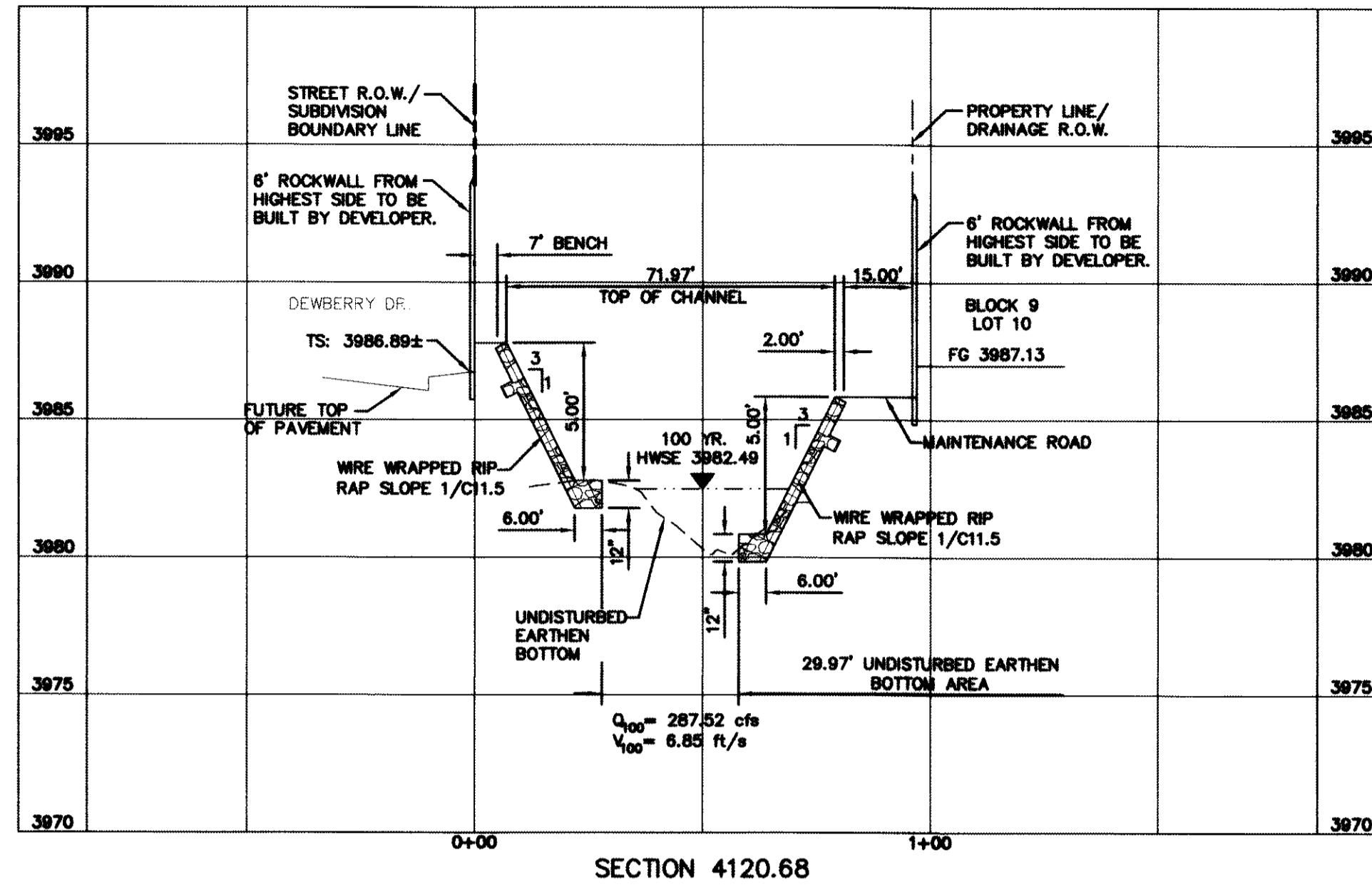
- 100 YR HWSE
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UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY (915) 543-5720
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 (AFTER HOURS) (915) 240-3220

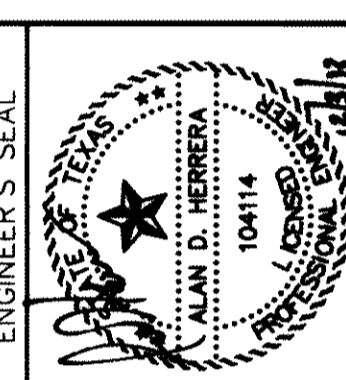
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 FOR FIELD LOCATING EXISTING UTILITIES



REFERENCES — BENCHMARKS
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 4712 Woodrow Bean, Ste. F El Paso, TX 79924
 Office: 915.544.5202 Fax: 915.544.5233 www.ceagroup.net
 TEXAS PROFESSIONAL REGISTRATION NO. 4564



ENGINEER'S SEAL
 SCALE: 1"=30'
 Horizontal: 1"=6'
 Vertical: 1"=6'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGNED BY: A.M.
 CHECKED BY: J.M.
 APPROVED BY: A.H.
 JOB No. 2005-013-LD

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**HYBRID
 CHANNEL #1
 CROSS SECTIONS**

(SHEET 4 OF 7)
 SHEET NO.

C9.11

GENERAL NOTES:

1. THE SIDES OF THE CHANNEL SHALL BE WIRE TIED RIP RAP AS PER DETAIL 8/C11.3.
2. ACCESS RAMPS OF THE CHANNEL SHALL BE REINFORCED CONCRETE AS PER DETAIL 1/C11.7
3. REINFORCED CONCRETE ACCOMMODATIONS SHALL BE AS PER DETAIL 7/C11.5

RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013

BENCHMARK:

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3935.93 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NAVD 88 DATUM)
 3945.79 (NAVD 29 DATUM)
 TIE TO THE PROJECT BENCHMARK IS N00°50'52"E, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

UTILITY LOCATOR SERVICES

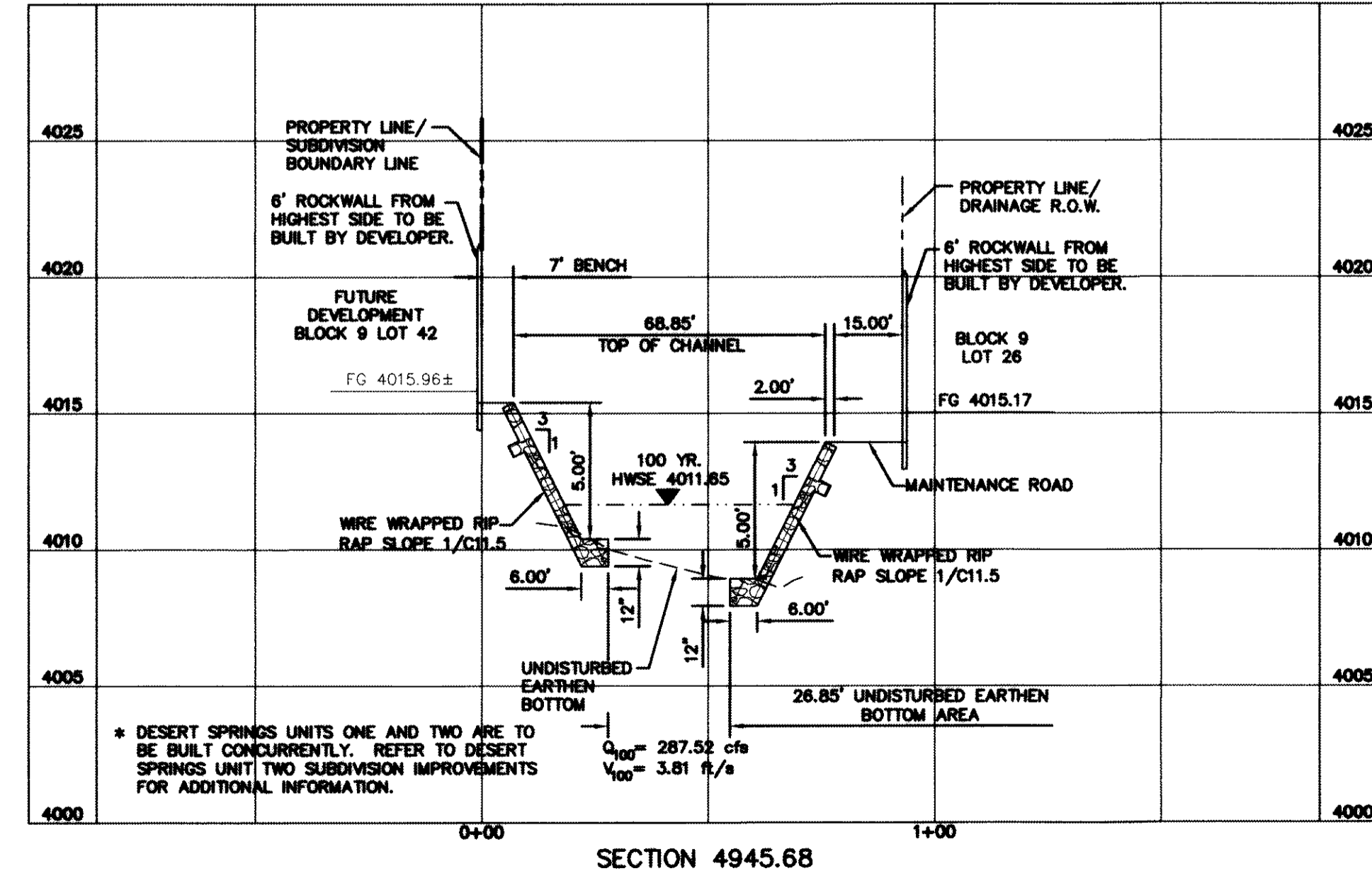
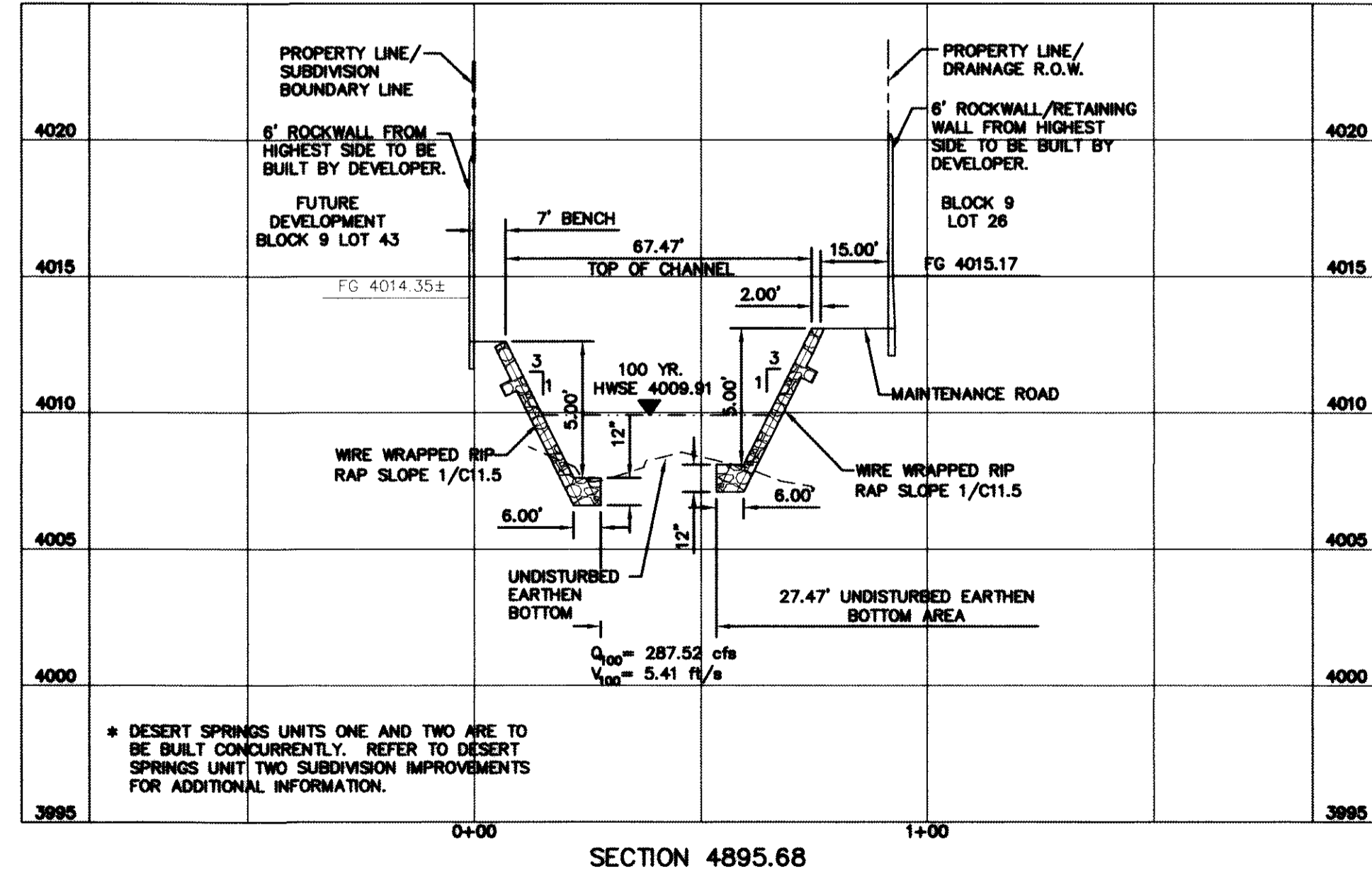
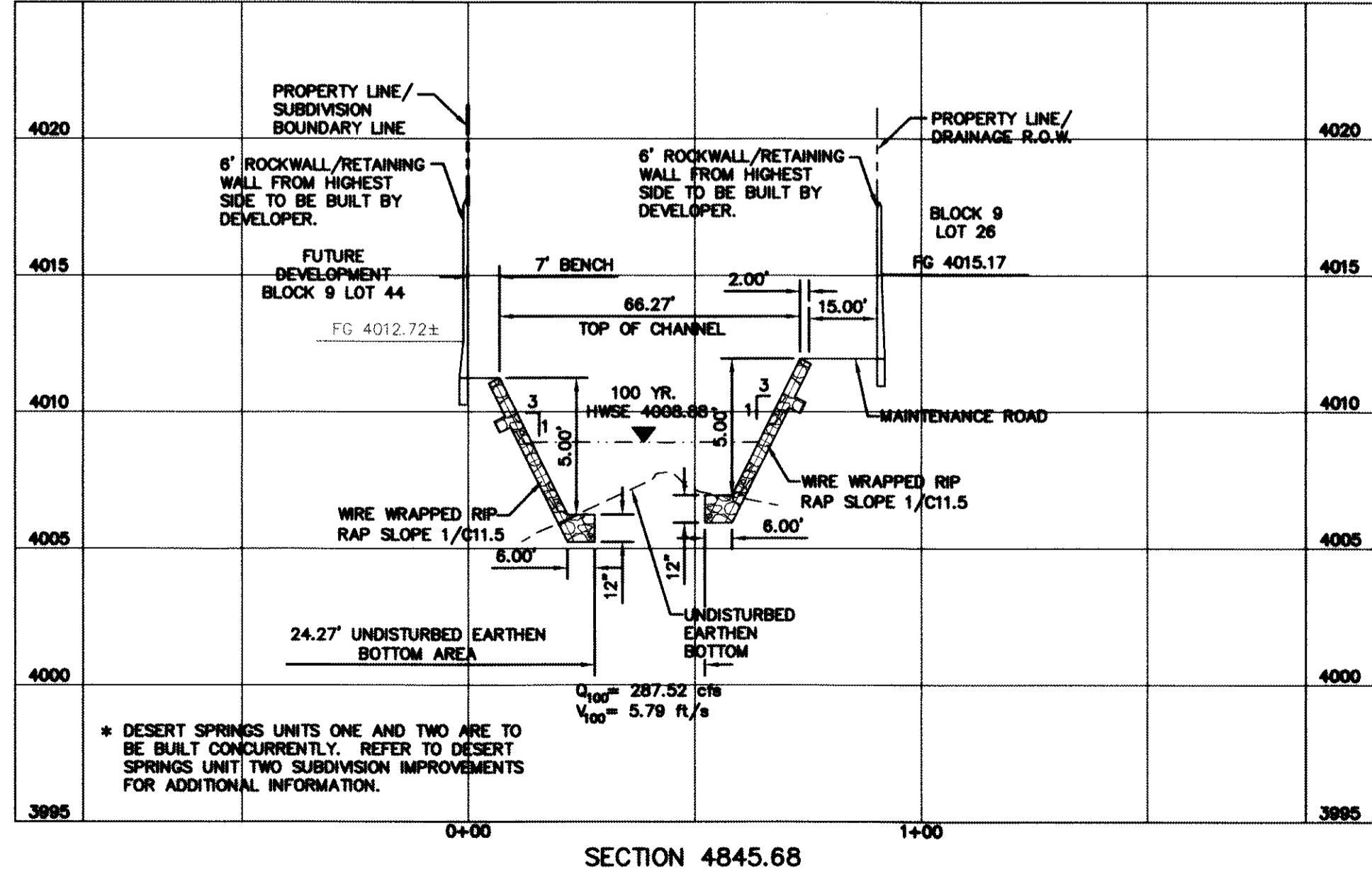
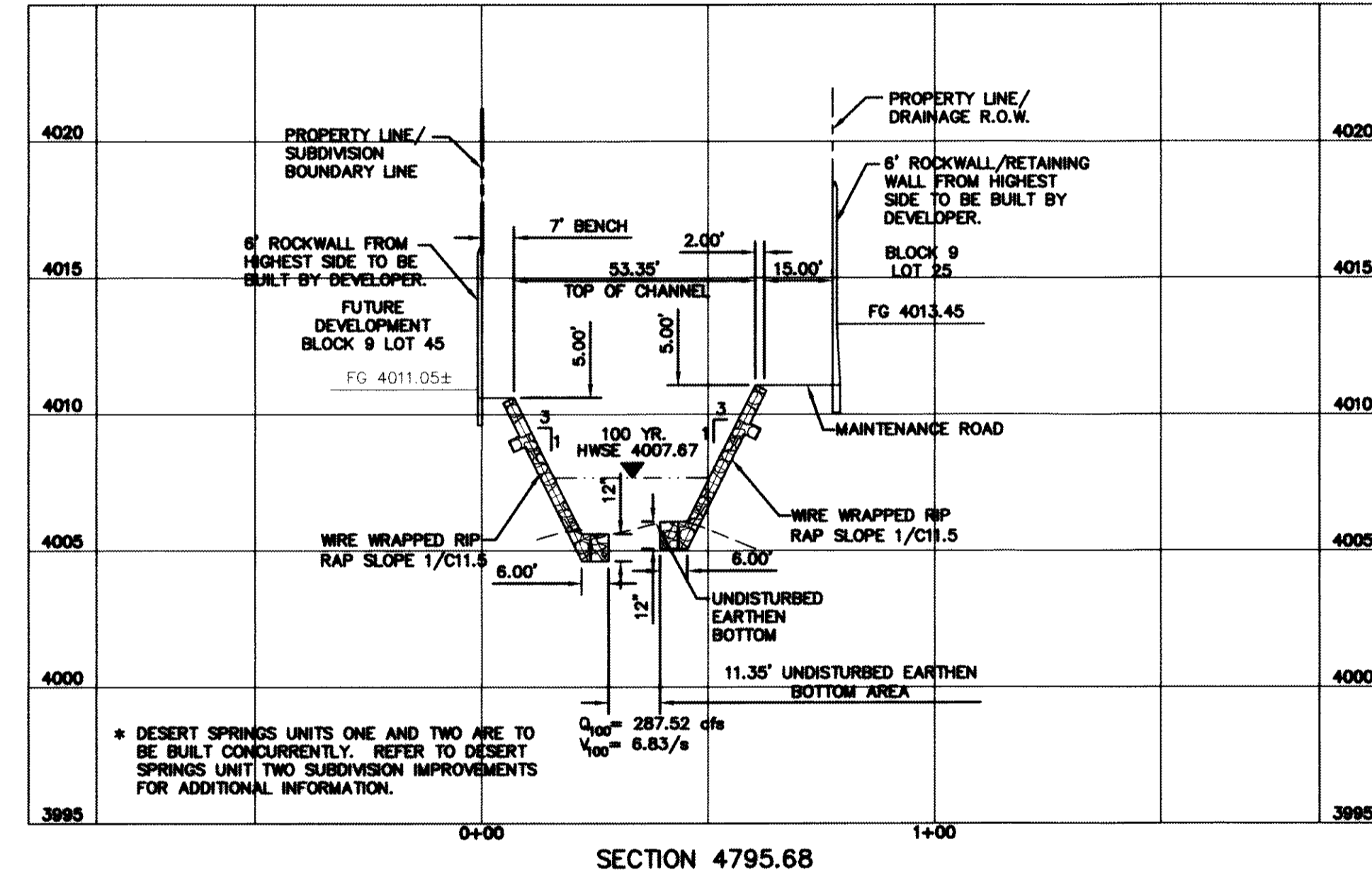
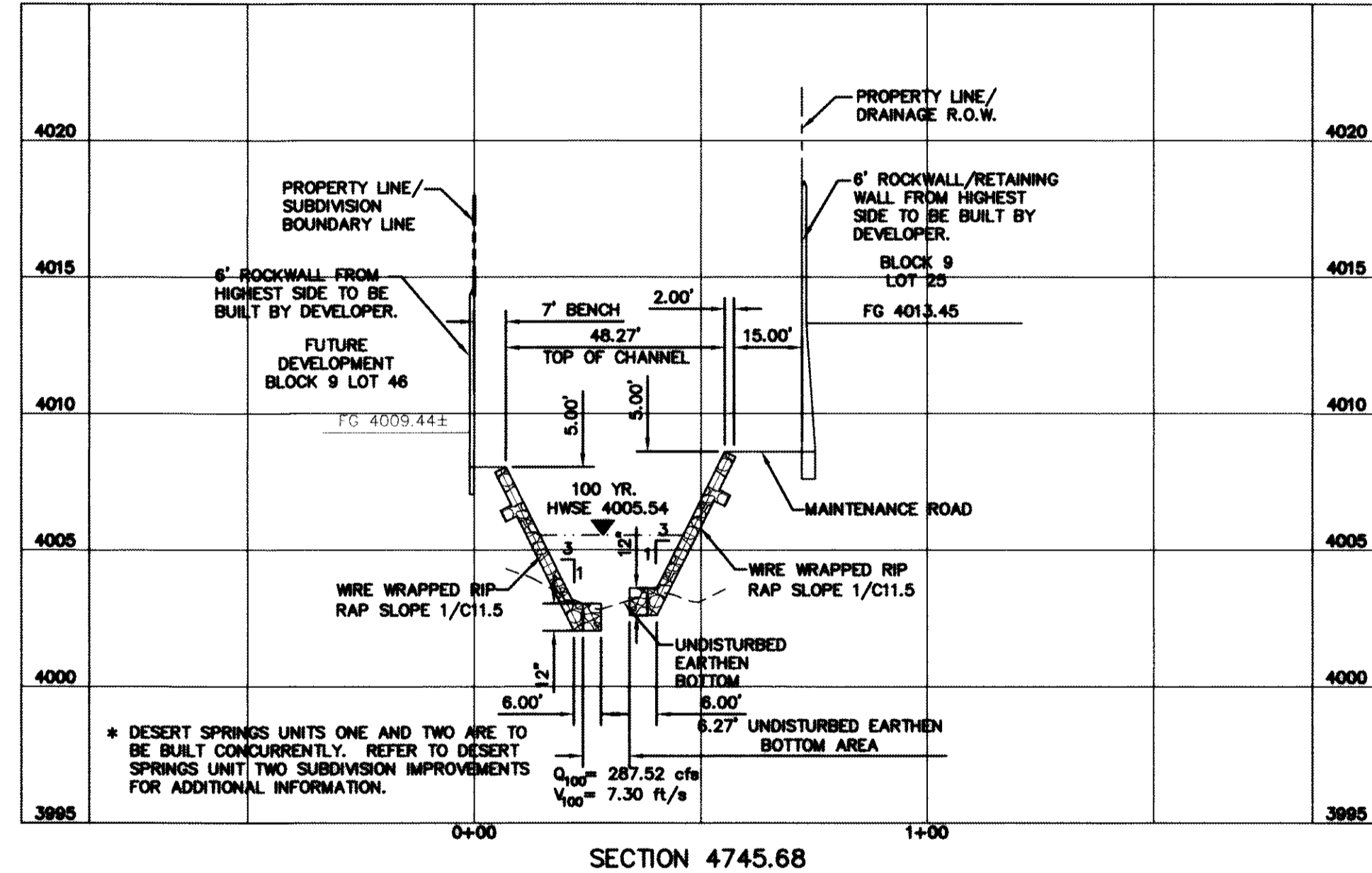
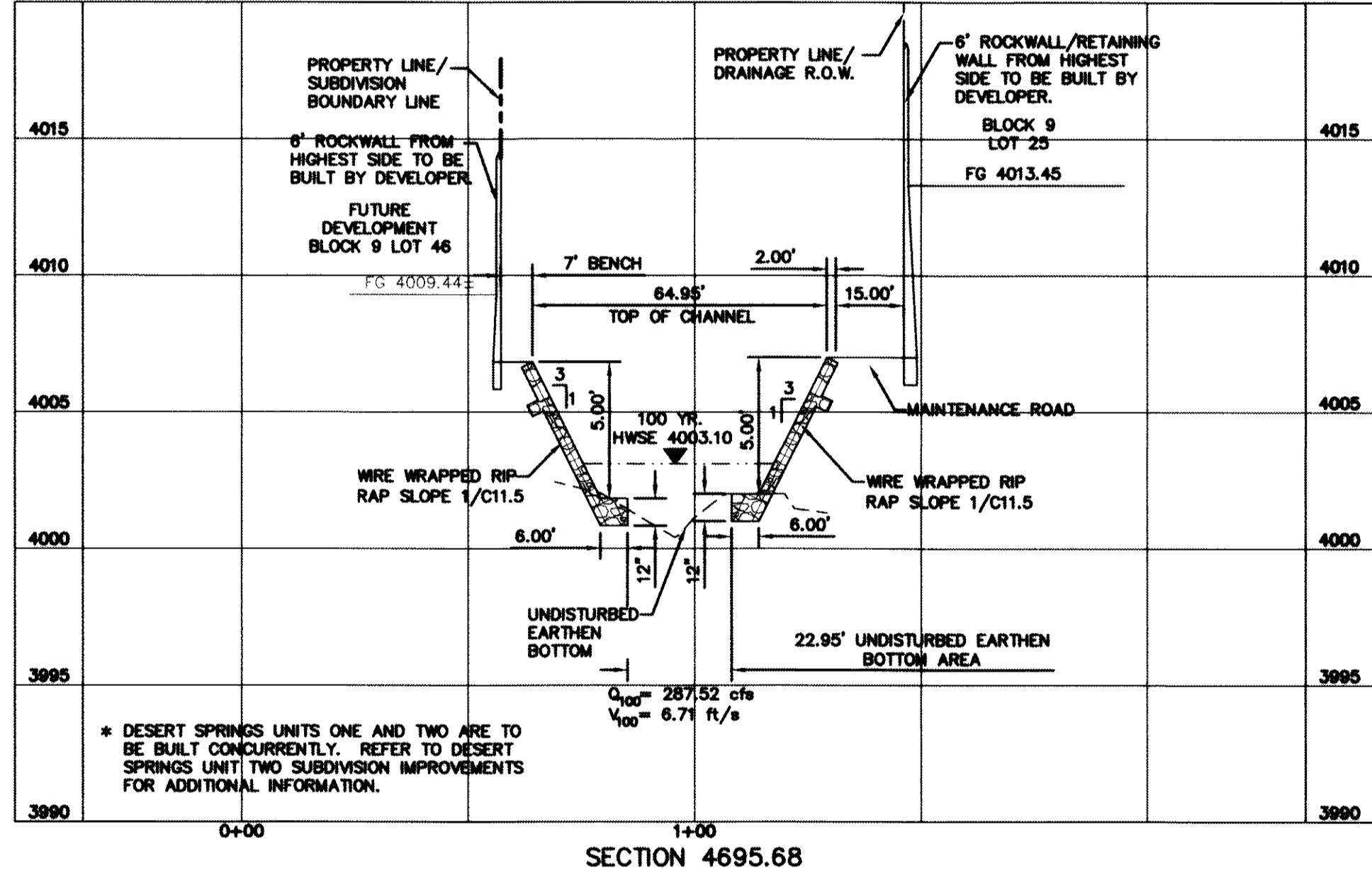
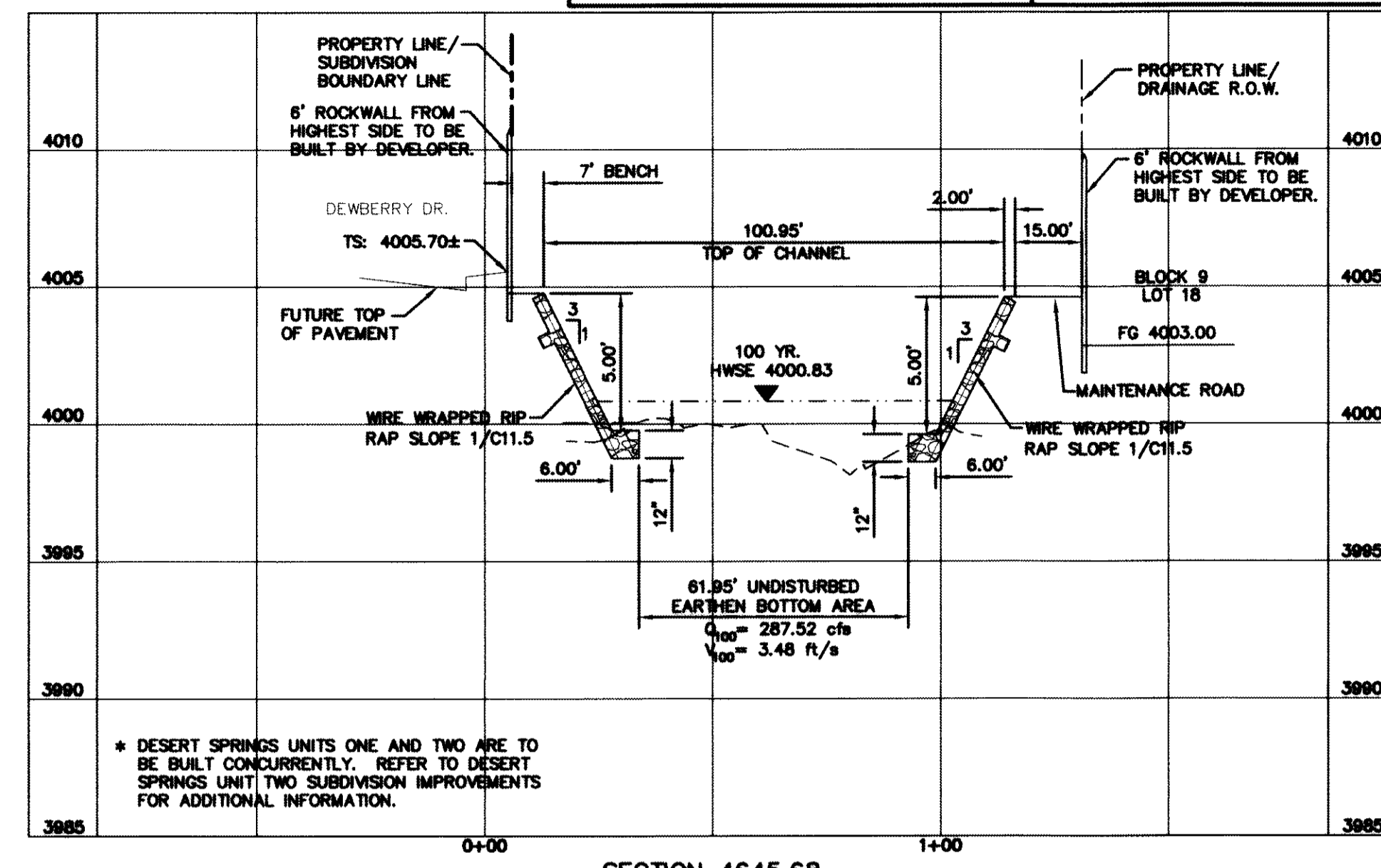
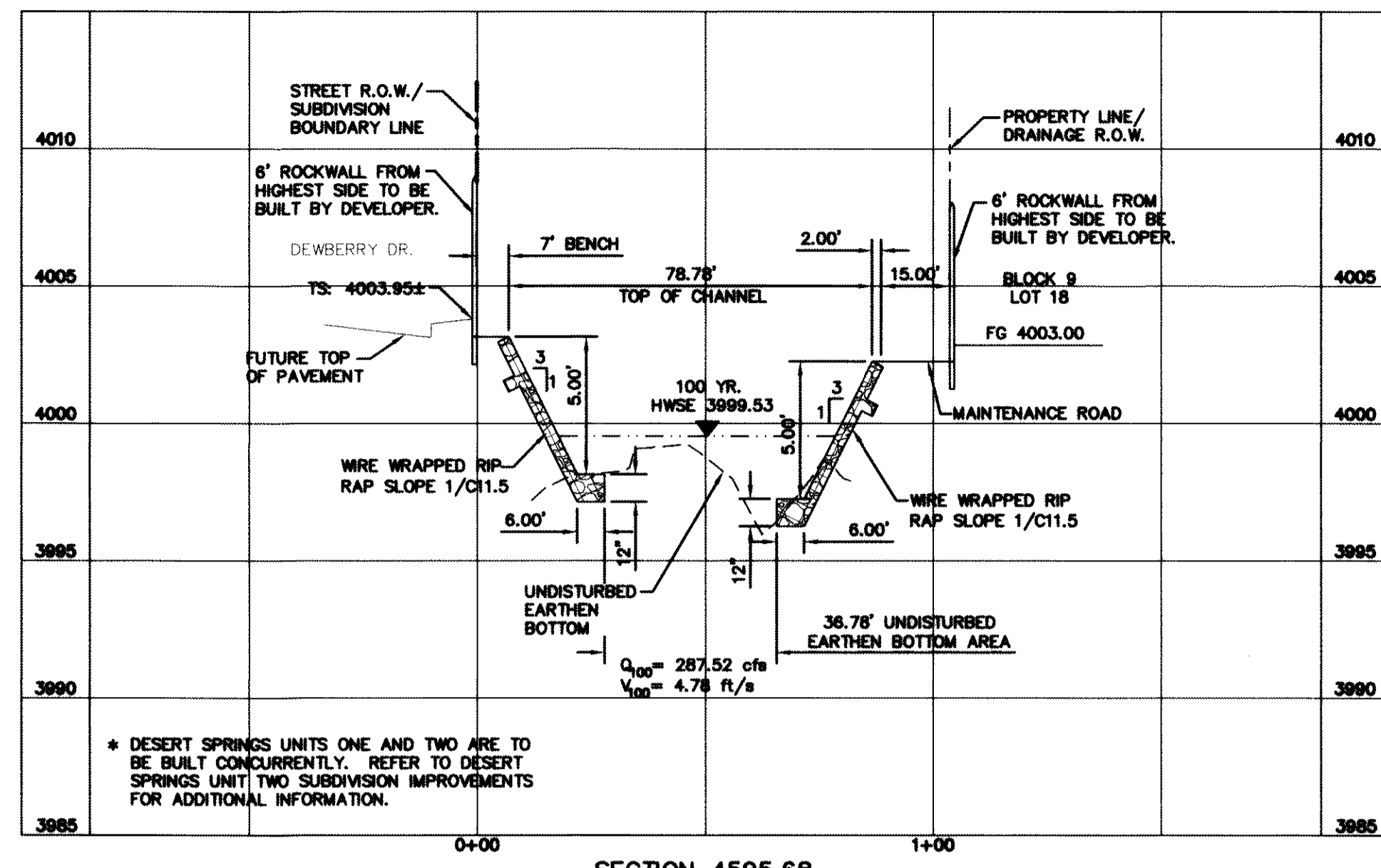
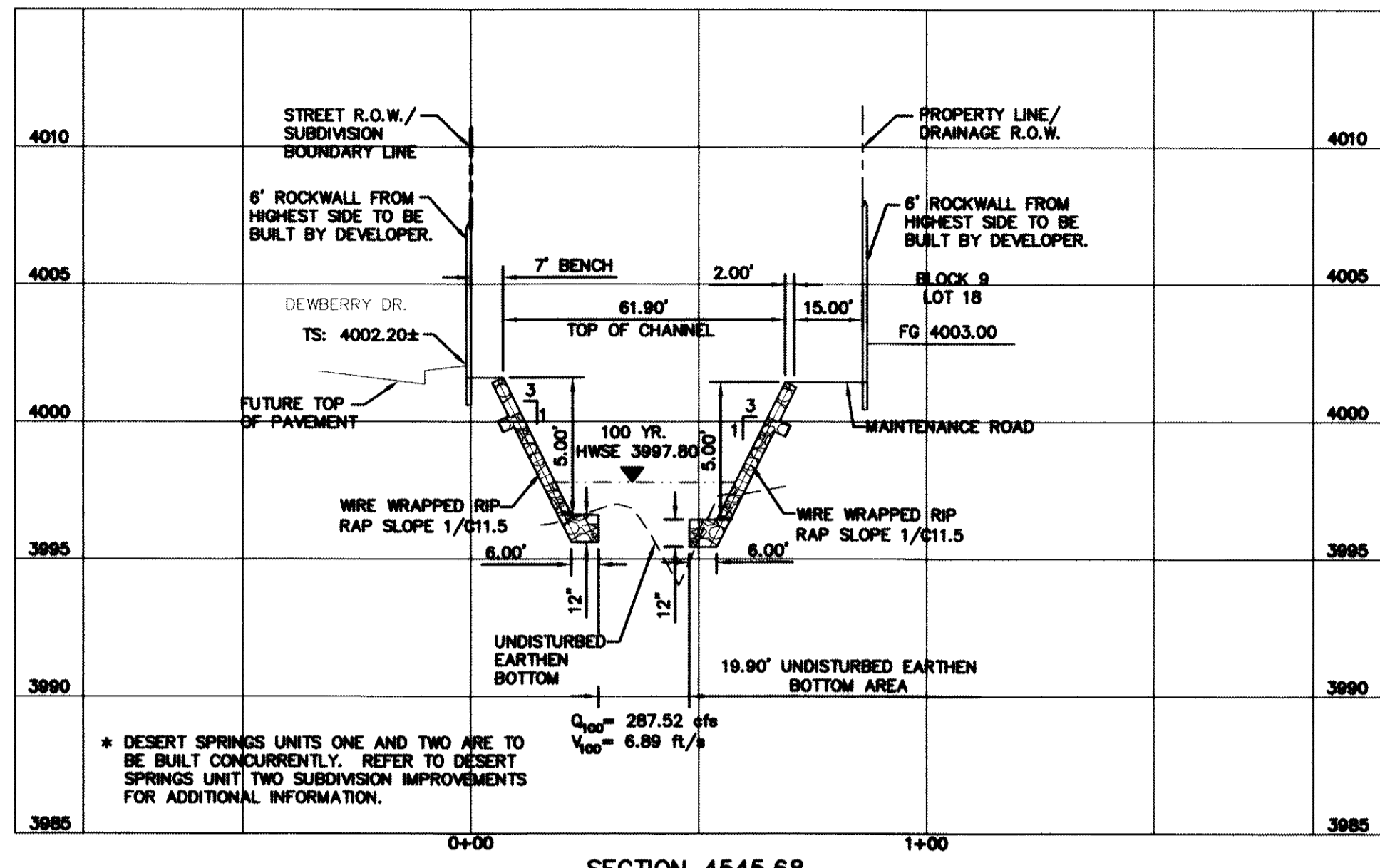
| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING ! BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3935.93 (CITY OF EL PASO VERTICAL DATUM SHOWN)
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| DATE | REVISIONS | BY |
|------|-----------|----|
| | | |



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 TEXAS FIRM REGISTRATION NO. 4584



SCALE: 1"=30'
 Horizontal: 1"=60'
 Vertical: 1"=6'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APP'D. BY: A.H.
 JOB No. 2050-013-1-D

**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

**HYBRID CHANNEL #1
 CROSS SECTIONS**
 (SHEET 5 OF 7)
 SHEET NO.

C9.12

GENERAL NOTES:

1. THE SIDES OF THE CHANNEL SHALL BE WIRE TIED RIP RAP AS PER DETAIL 8/C11.3.
2. ACCESS RAMPS OF THE CHANNEL SHALL BE REINFORCED CONCRETE AS PER DETAIL 1/C11.7
3. REINFORCED CONCRETE ACCOMMODATIONS SHALL BE AS PER DETAIL 7/C11.5

RECORD DRAWINGS
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 10/24/2013

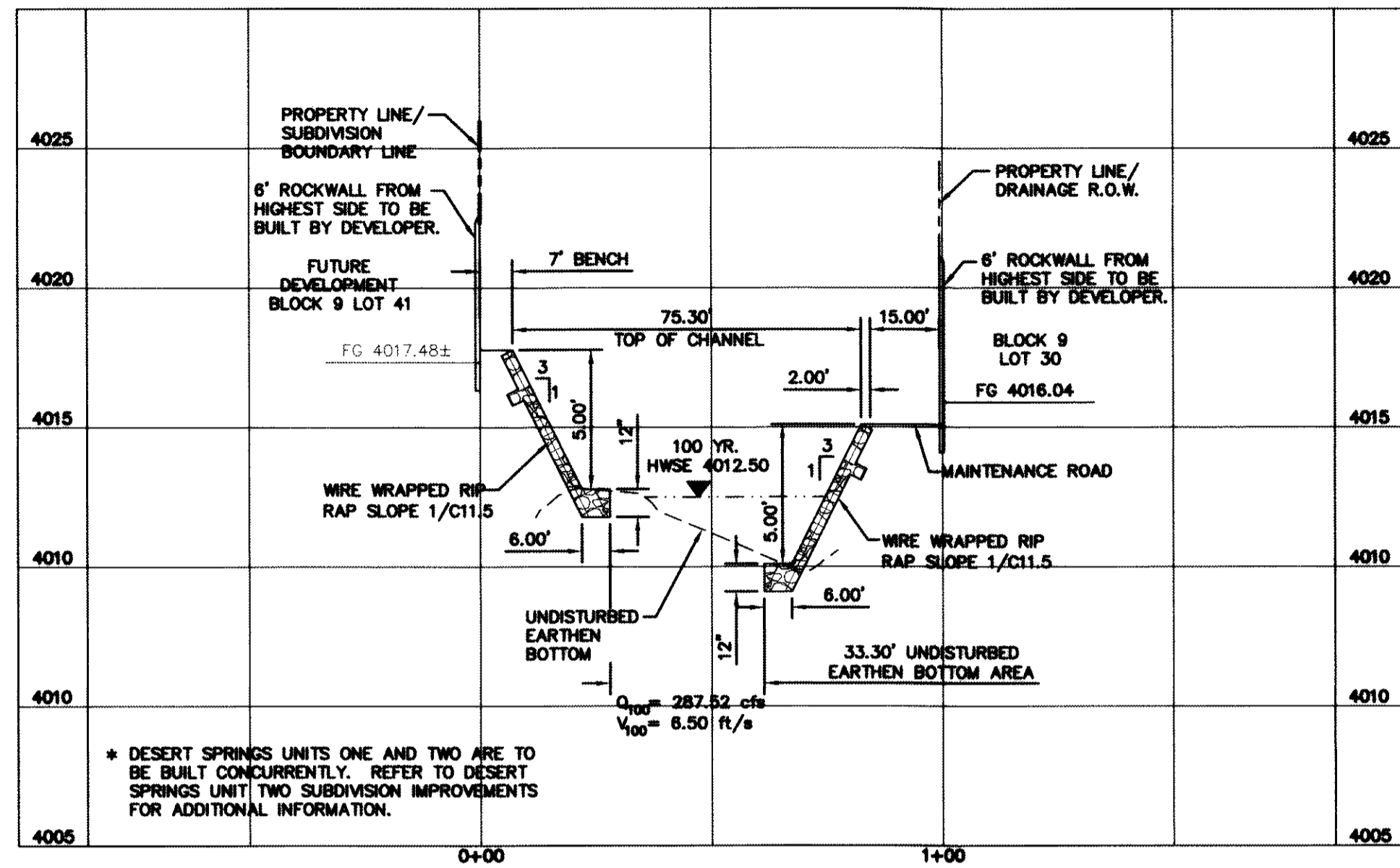
BENCHMARK:
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3935.93 (CITY OF EL PASO VERTICAL DATUM)
 3946.11 (NAVD 88 DATUM)
 3945.78 (NGVD 29 DATUM)
 TIE TO THE PROJECT BENCHMARK IS N00°50'52"E, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

LEGEND
 100 YR HWSE
 UNDISTURBED EARTHEN BERM

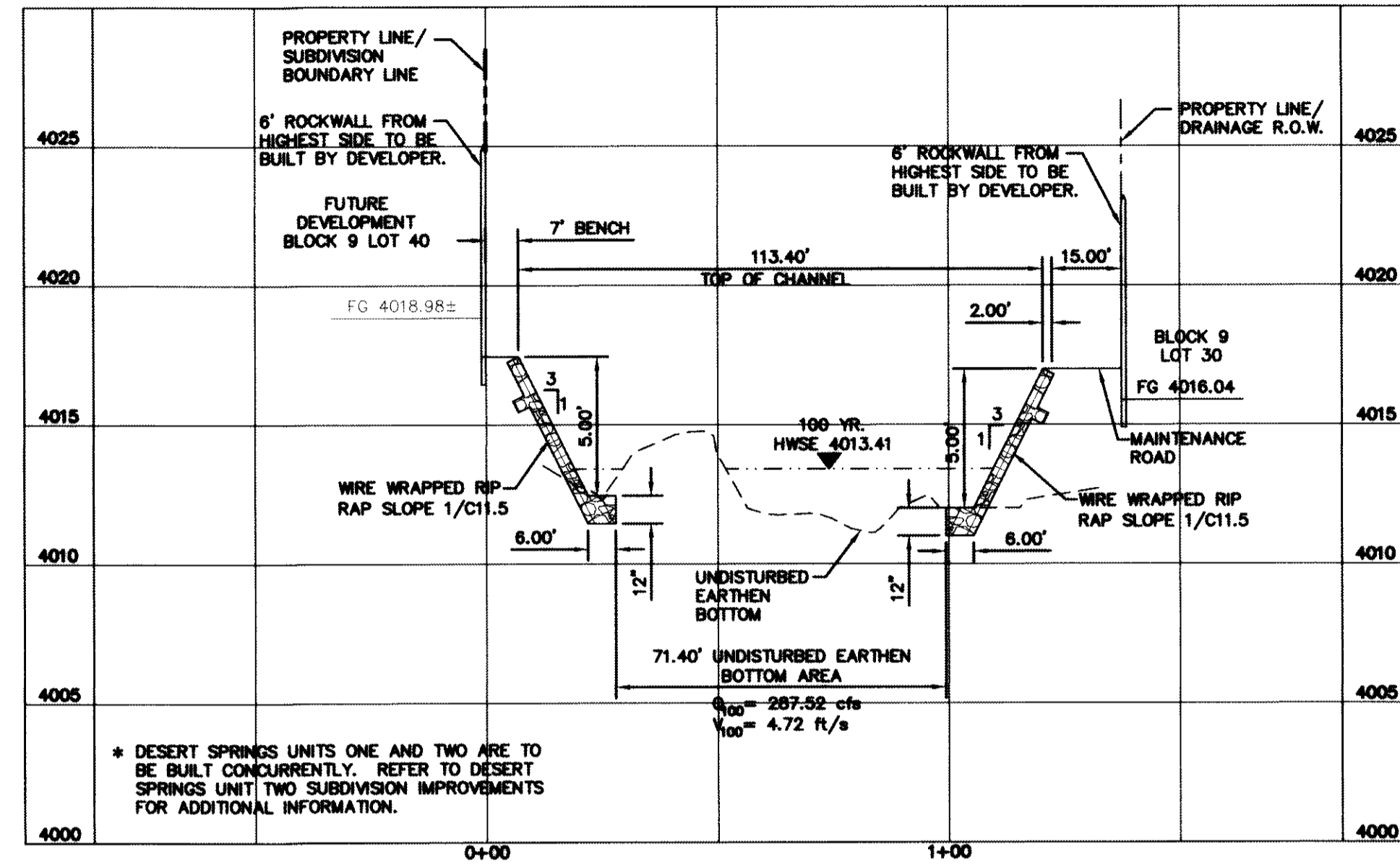
UTILITY LOCATOR SERVICES

| | |
|--|----------------|
| 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 |
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| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

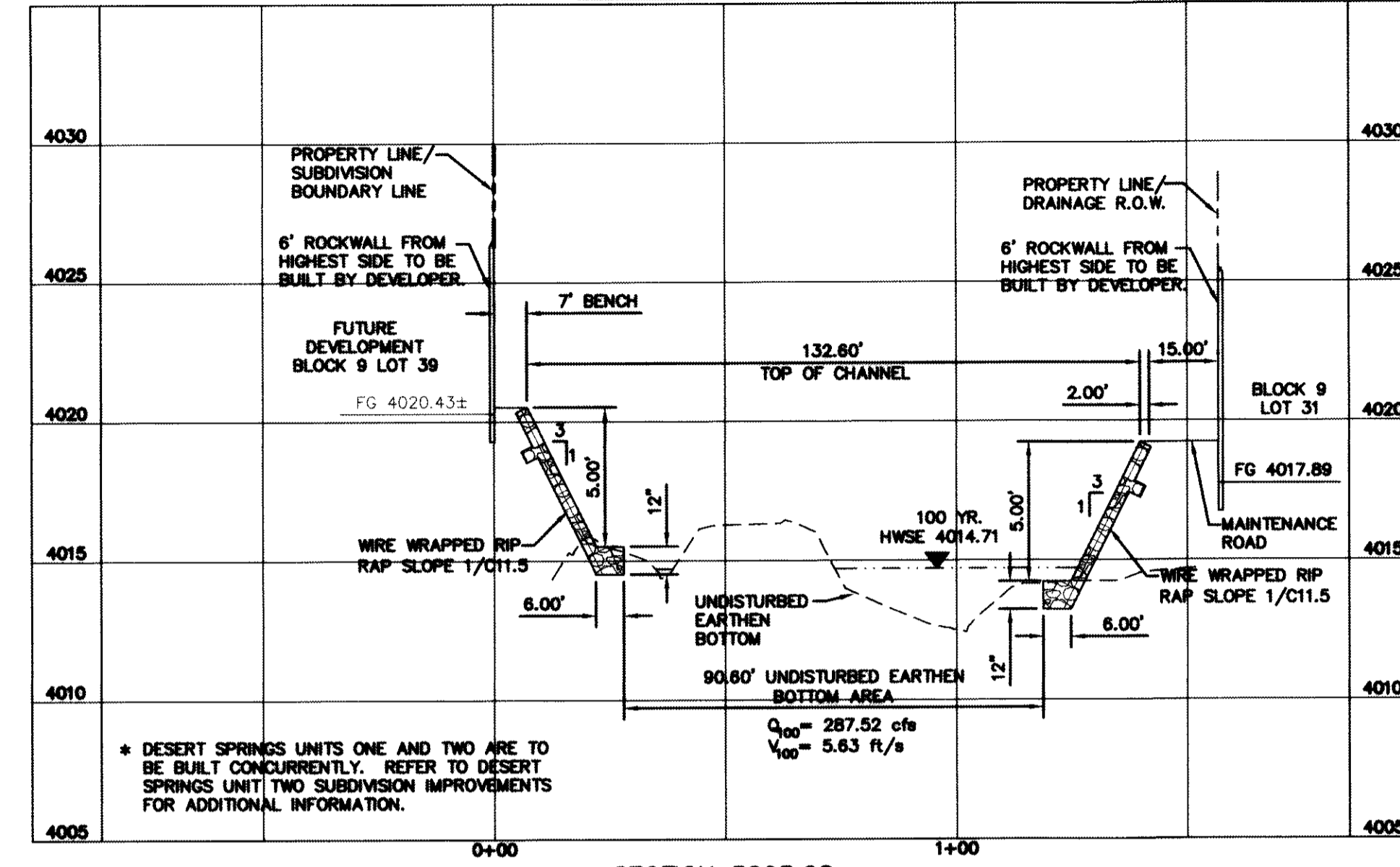
WARNING ! BEFORE YOU DIG
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 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES



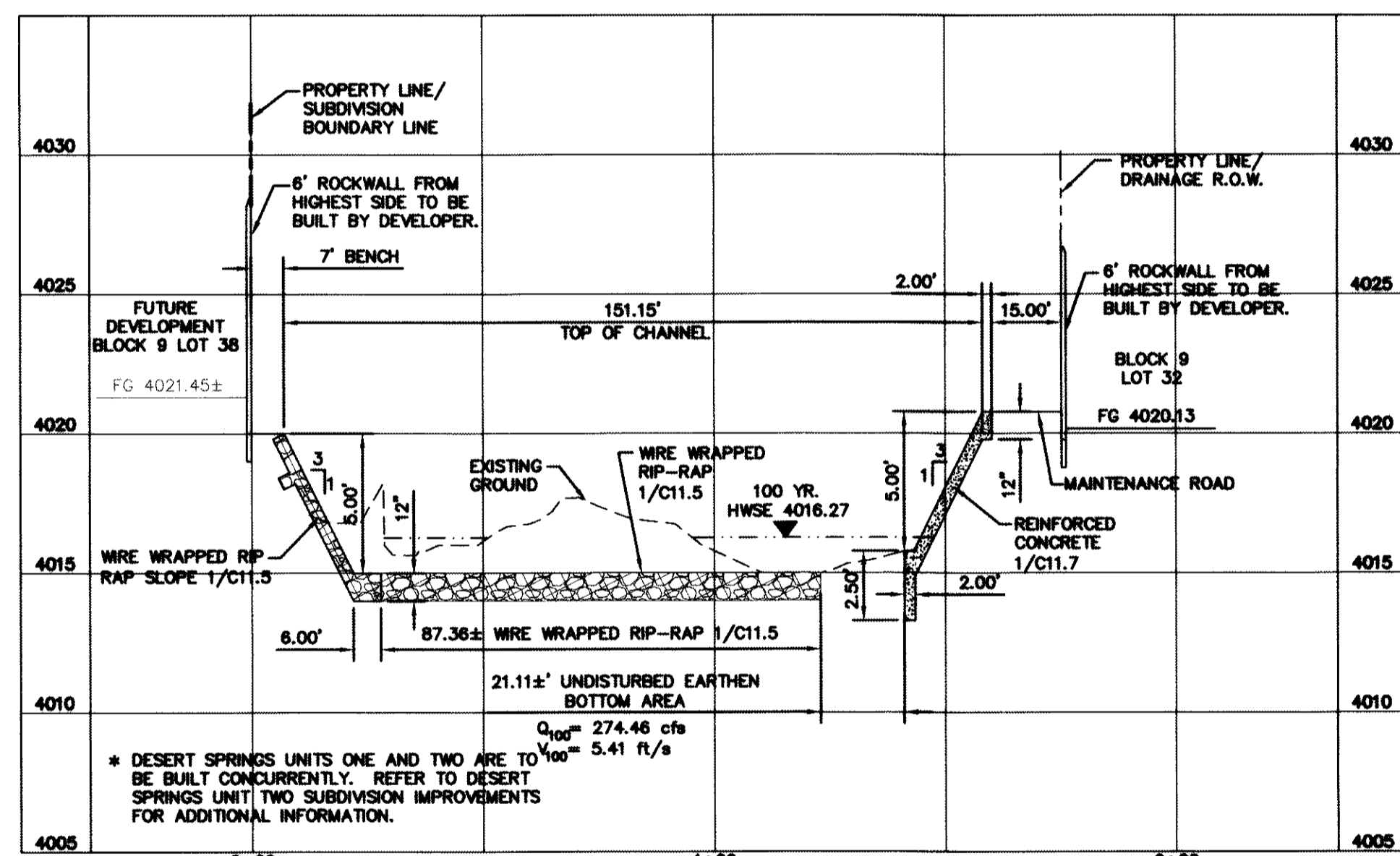
SECTION 4995.68



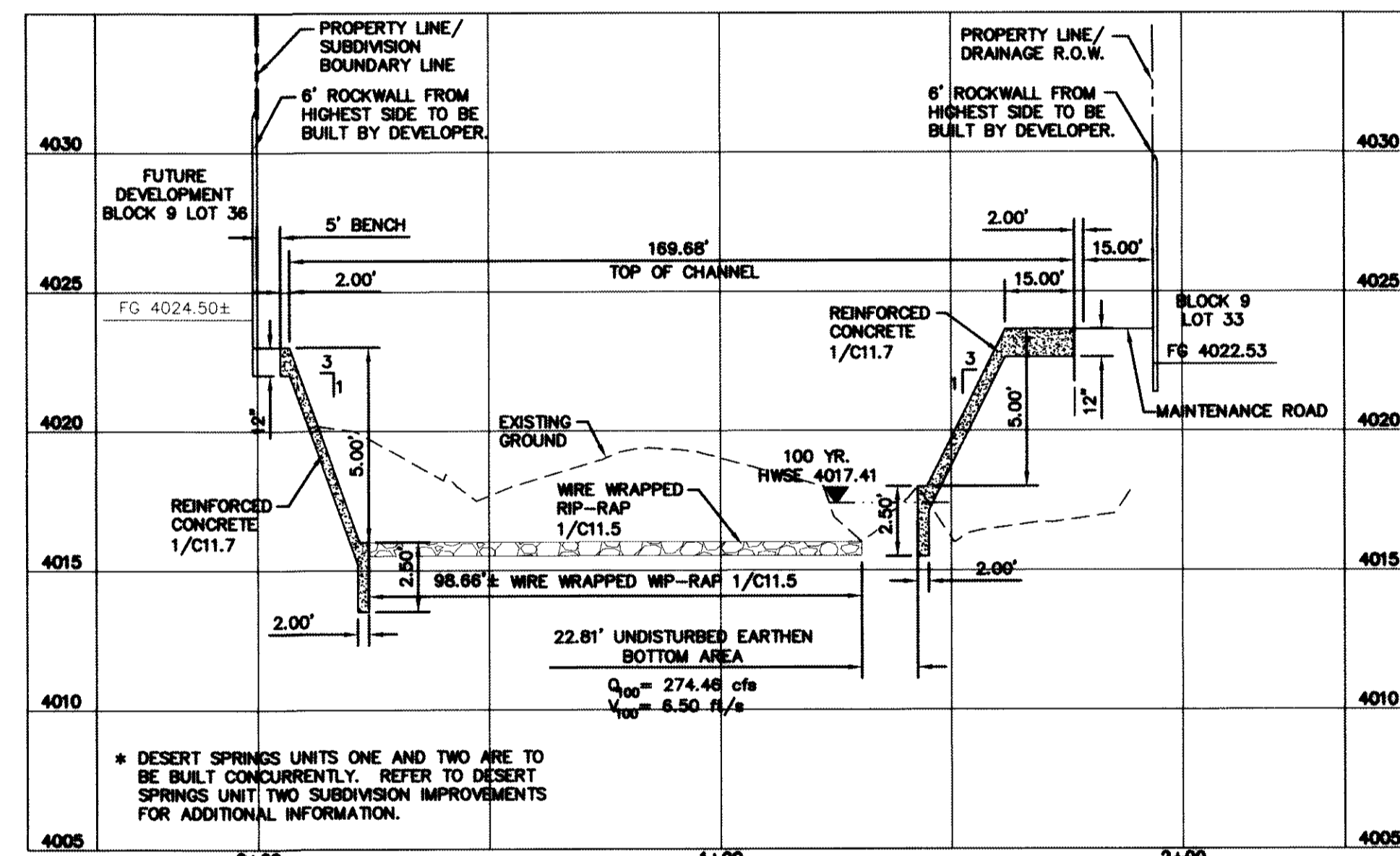
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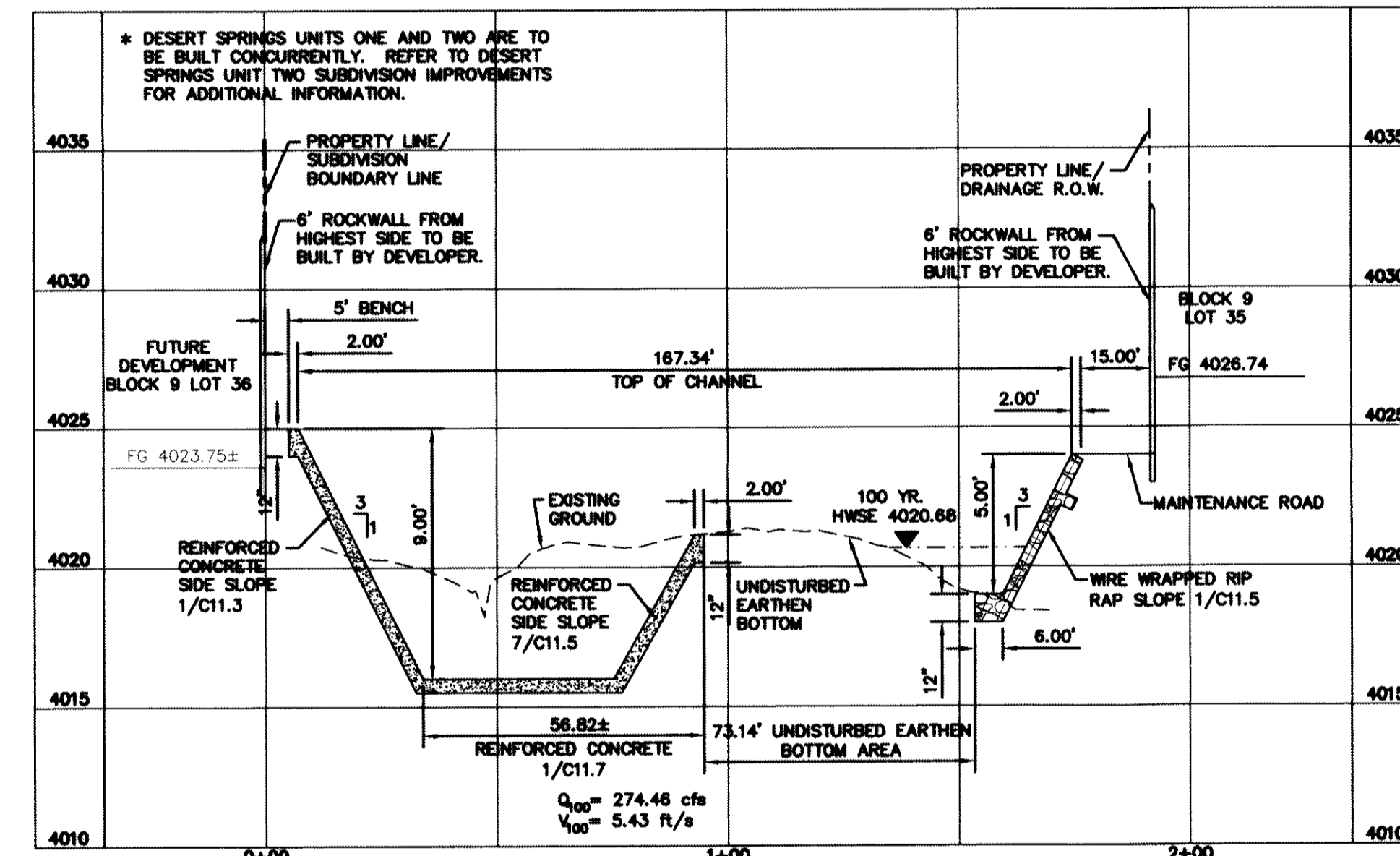
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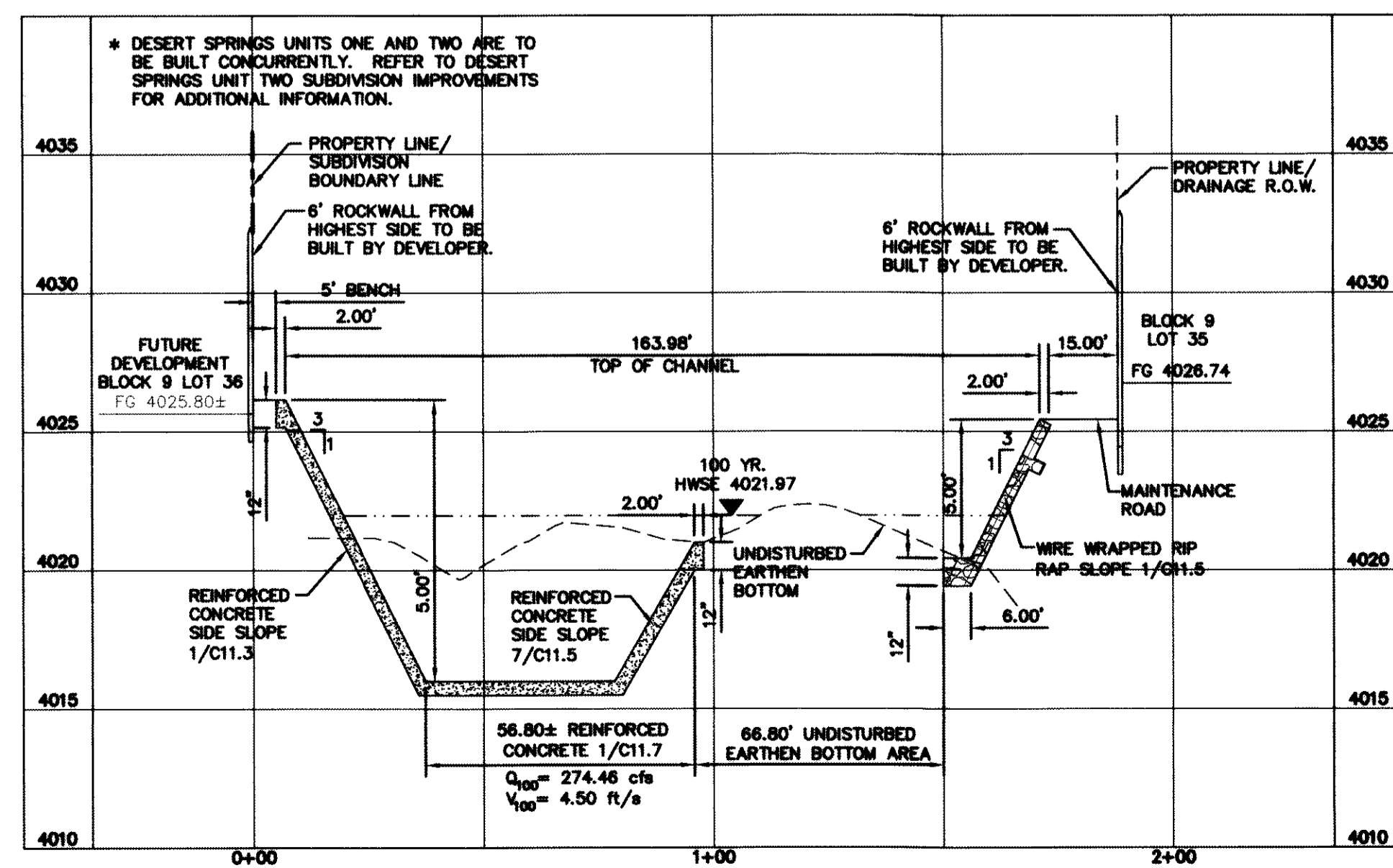
SECTION 5145.68



SECTION 5195.68



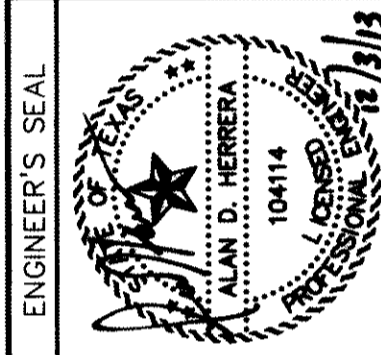
SECTION 5267.94



SECTION 5295.68

REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
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 Casstner Center @ Transmountain
 4712 Woodrow Bean, Ste. F, El Paso, TX 79904
 Office: 915.772.1123
 Texas P.E. Registration No. 494



SCALE
 Horizontal: 1"=30'
 Vertical: 1"=6'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHECKED BY: J.A.
 APP'D. BY: A.H.
 JOB No. 2009-013-LD

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 HYBRID CHANNEL #1
 CROSS SECTIONS
 (SHEET 6 OF 7)

SHEET NO.
 C9.13

GENERAL NOTES:

1. THE SIDES OF THE CHANNEL SHALL BE WIRE TIED RIP RAP AS PER DETAIL 8/C11.3.
2. ACCESS RAMPS OF THE CHANNEL SHALL BE REINFORCED CONCRETE AS PER DETAIL 1/C11.7
3. REINFORCED CONCRETE ACCOMMODATIONS SHALL BE AS PER DETAIL 7/C11.5

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10/24/2013

BENCHMARK:

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3935.83 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NAVD 88 DATUM)
 3945.78 (NOVD 29 DATUM)
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LEGEND

- 100 YR HWSE
- UNDISTURBED EARTHEN BERM

UTILITY LOCATOR SERVICES

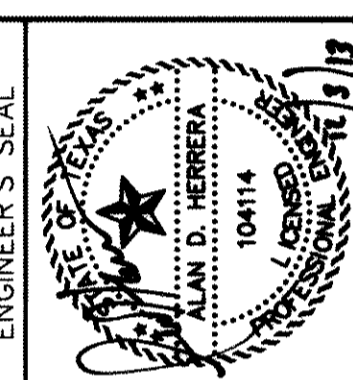
EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 496-5244
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (915) 680-7200
 ONEOK PARTNERS (915) 595-6918
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750
 (AFTER HOURS) (915) 240-3220

WARNING ! BEFORE YOU DIG

CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
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 4712 Woodrow Wilson, Suite 1000, El Paso, TX 79964
 CEA GROUP, INC. REG. PROFESSIONAL ENGINEERS
 TEXAS FIRM REGISTRATION NO. 4984



ENGINEER'S SEAL
 SCALE: 1"=30'
 Horizontal: 1"=60'
 Vertical: 1"=6'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.A.
 APPVD. BY: A.H.
 JOB No. 2050-013-LD

**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

PROJECT TITLE

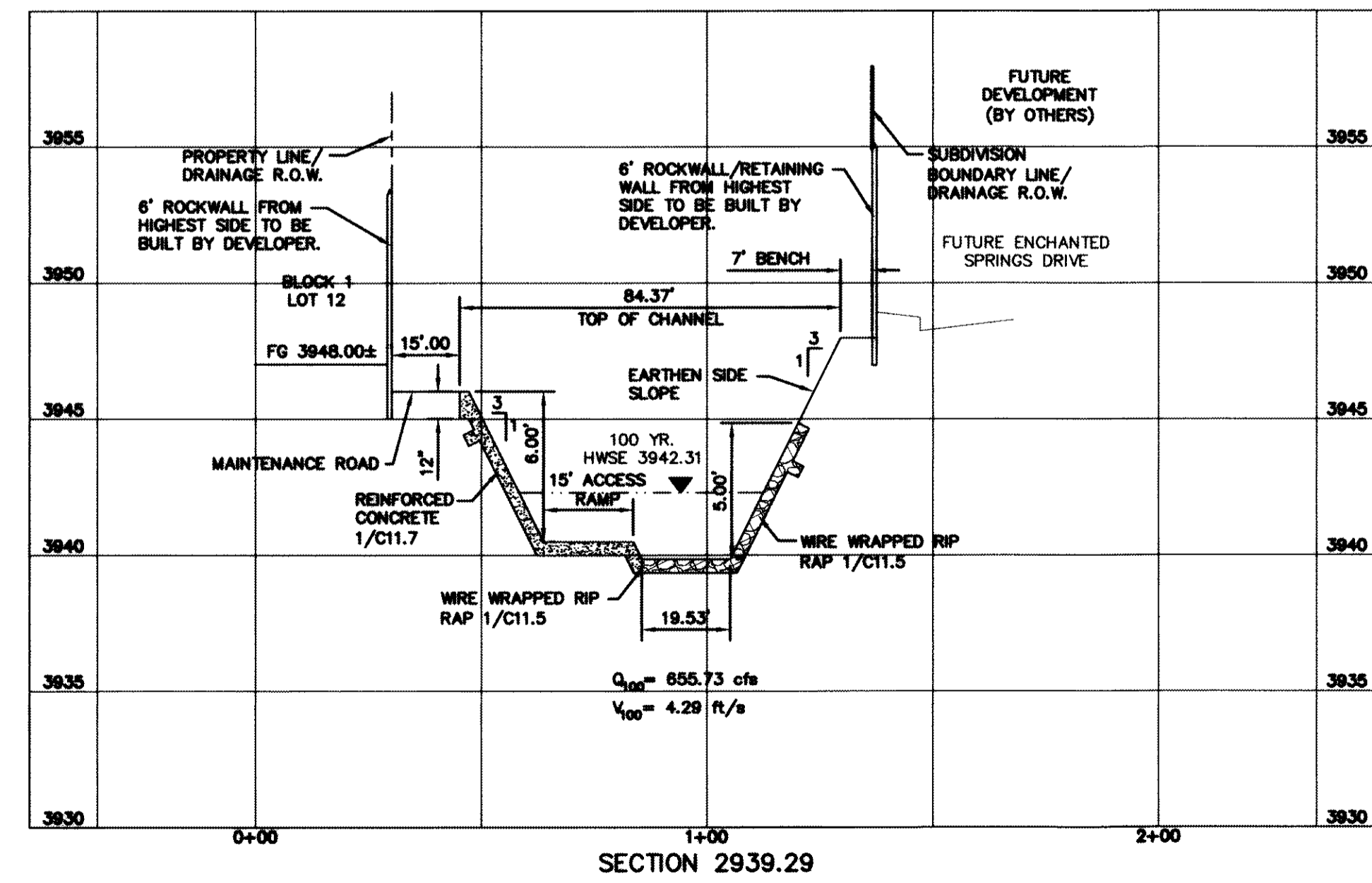
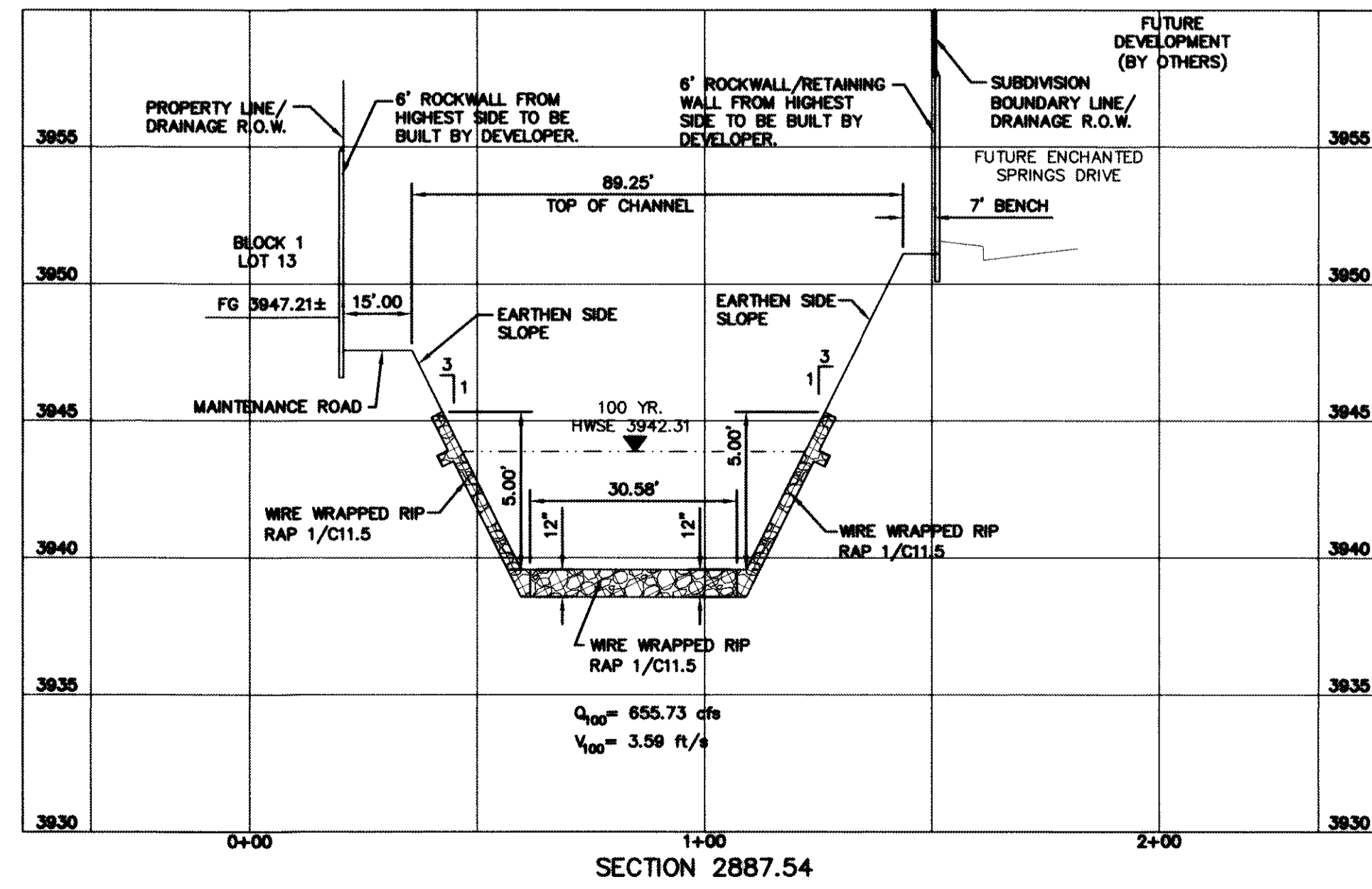
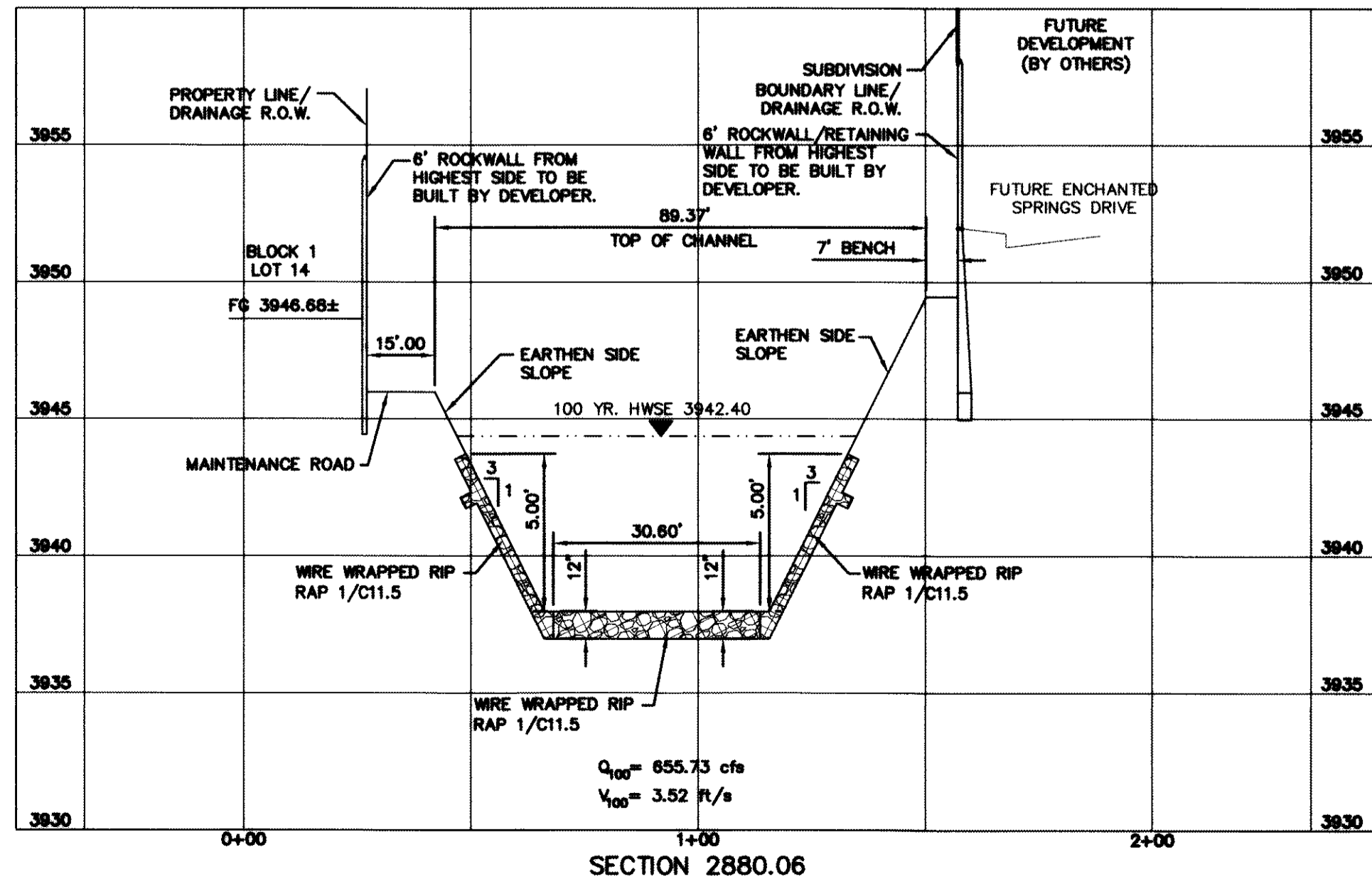
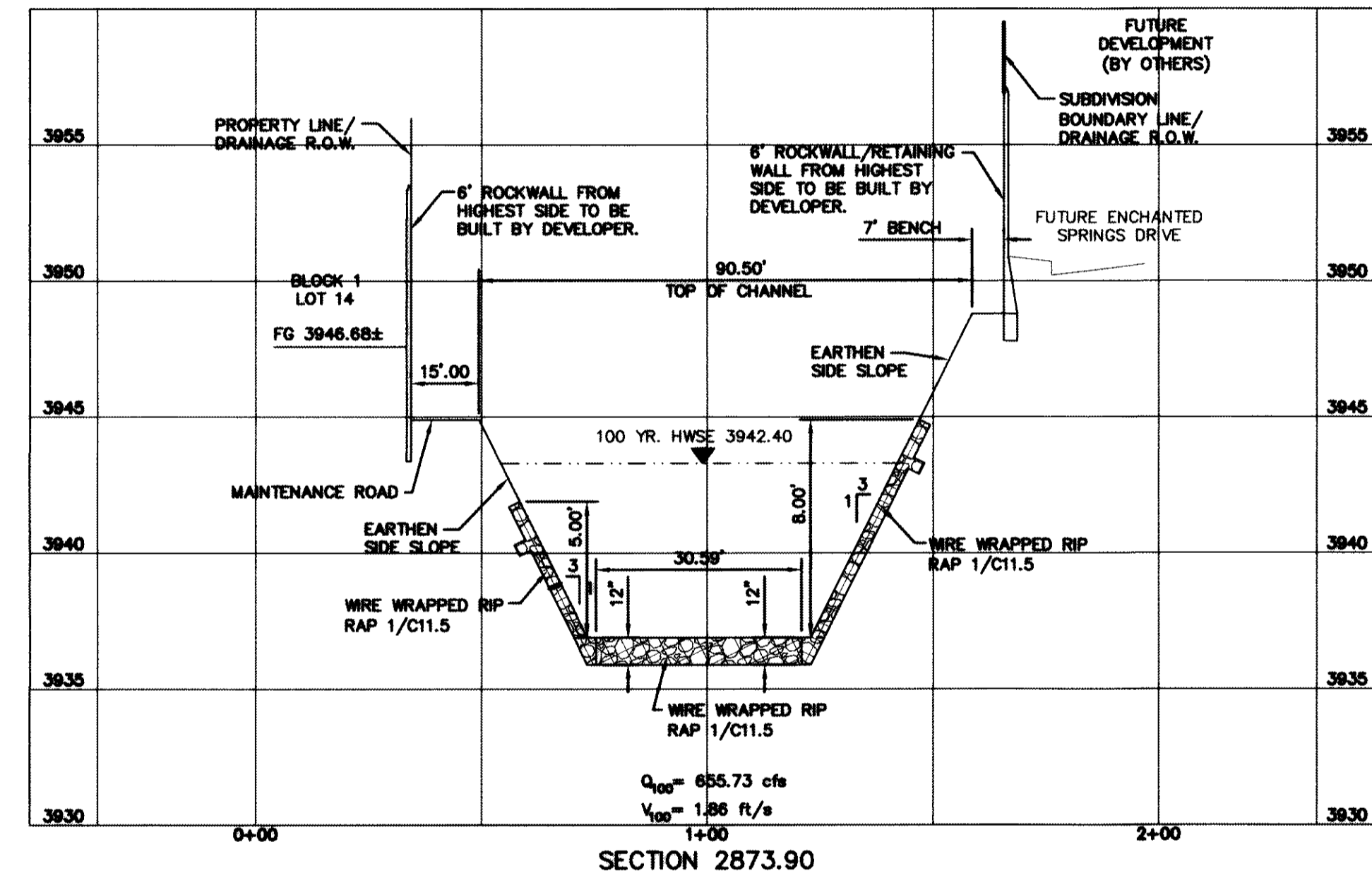
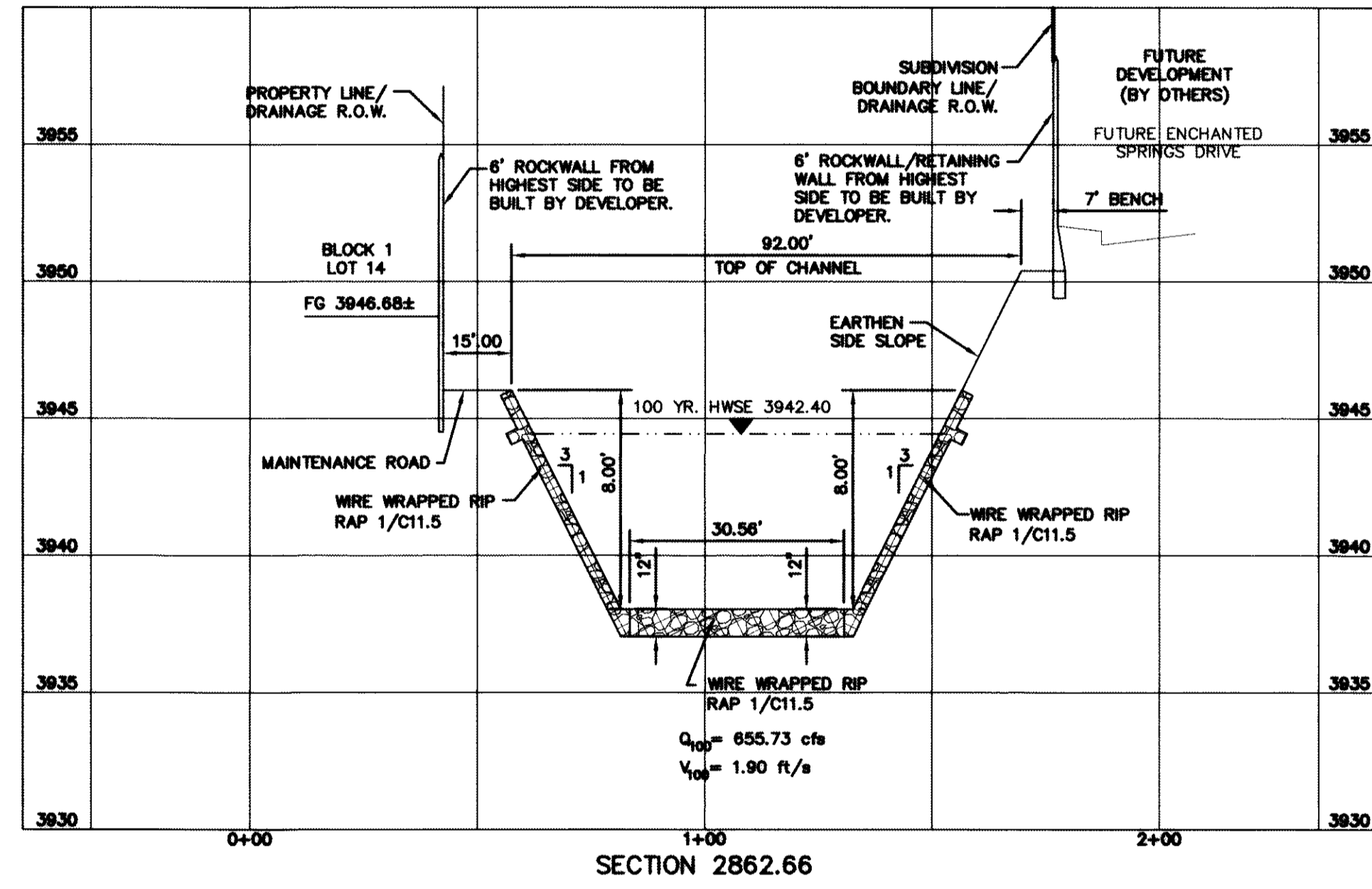
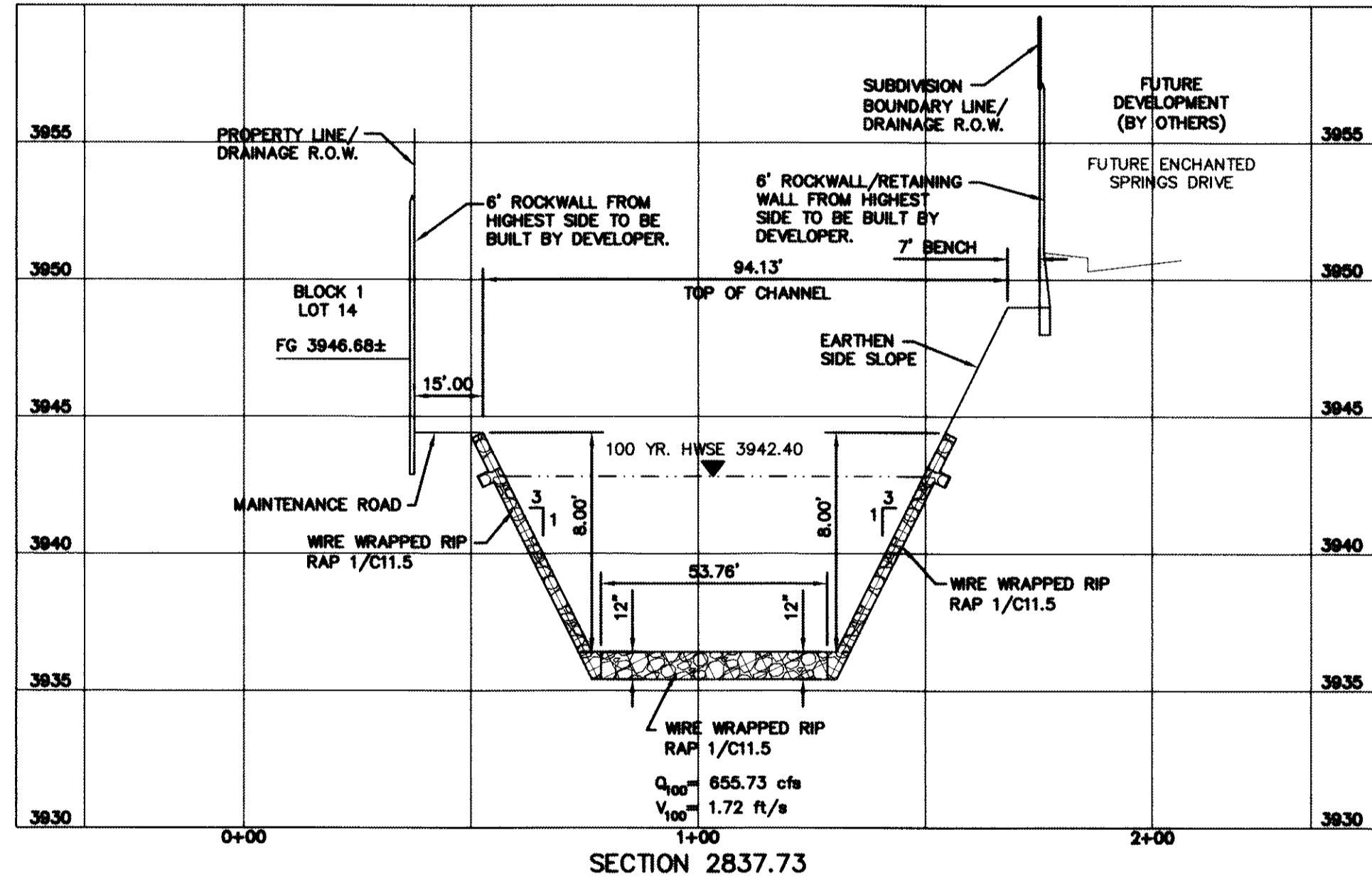
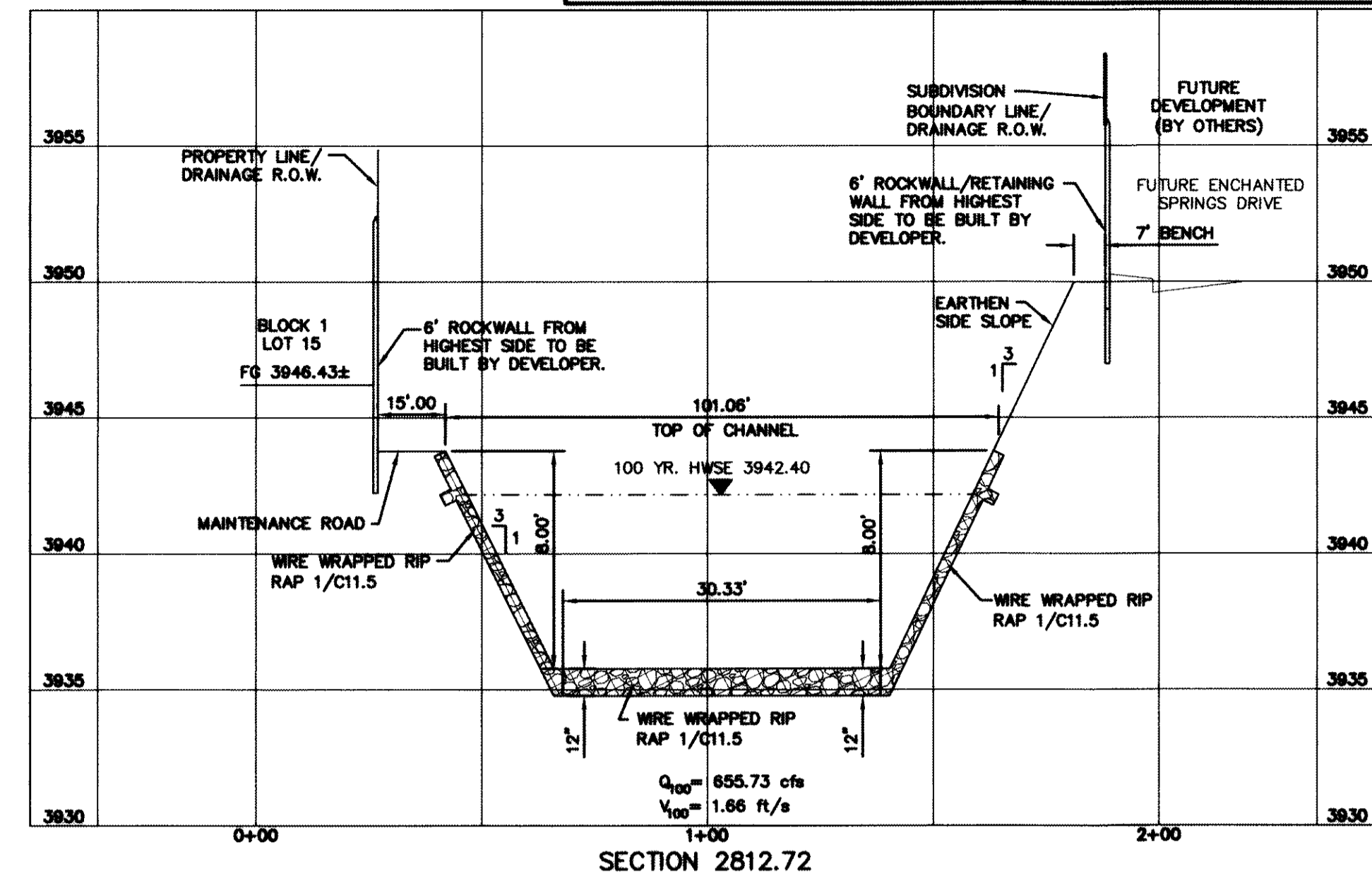
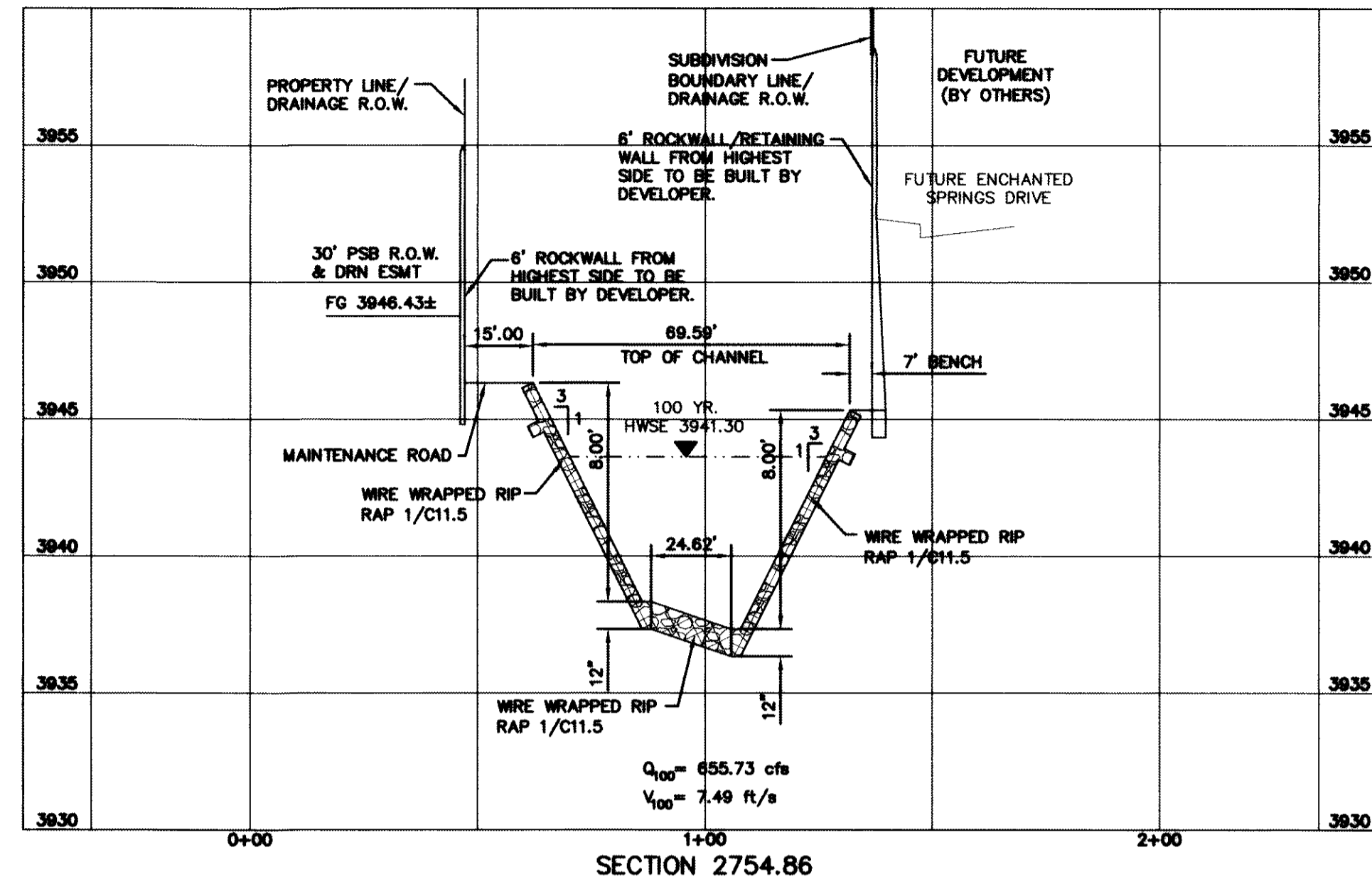
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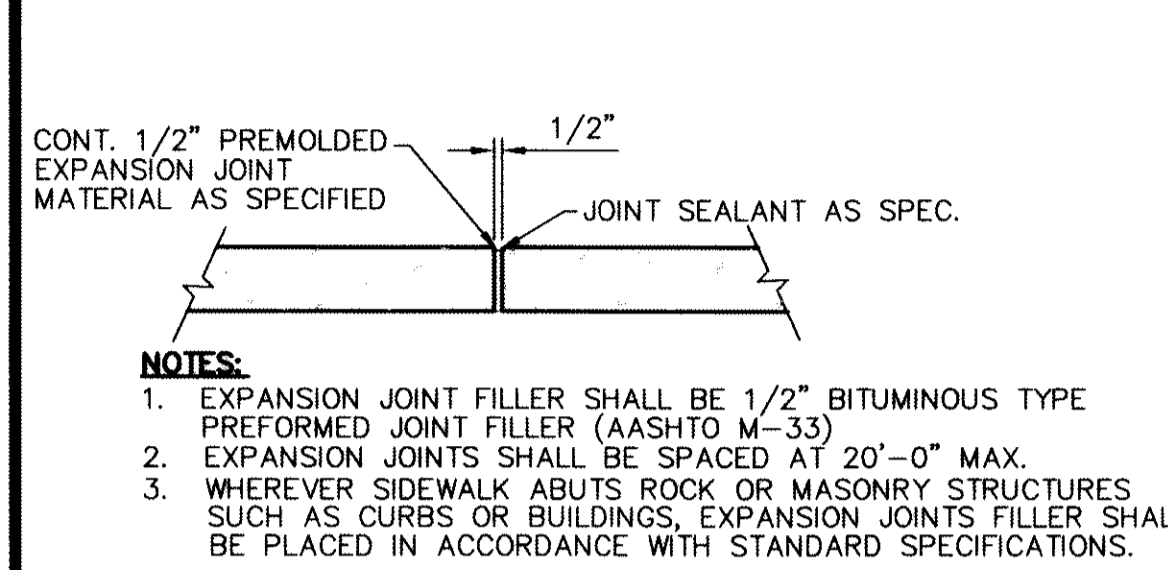
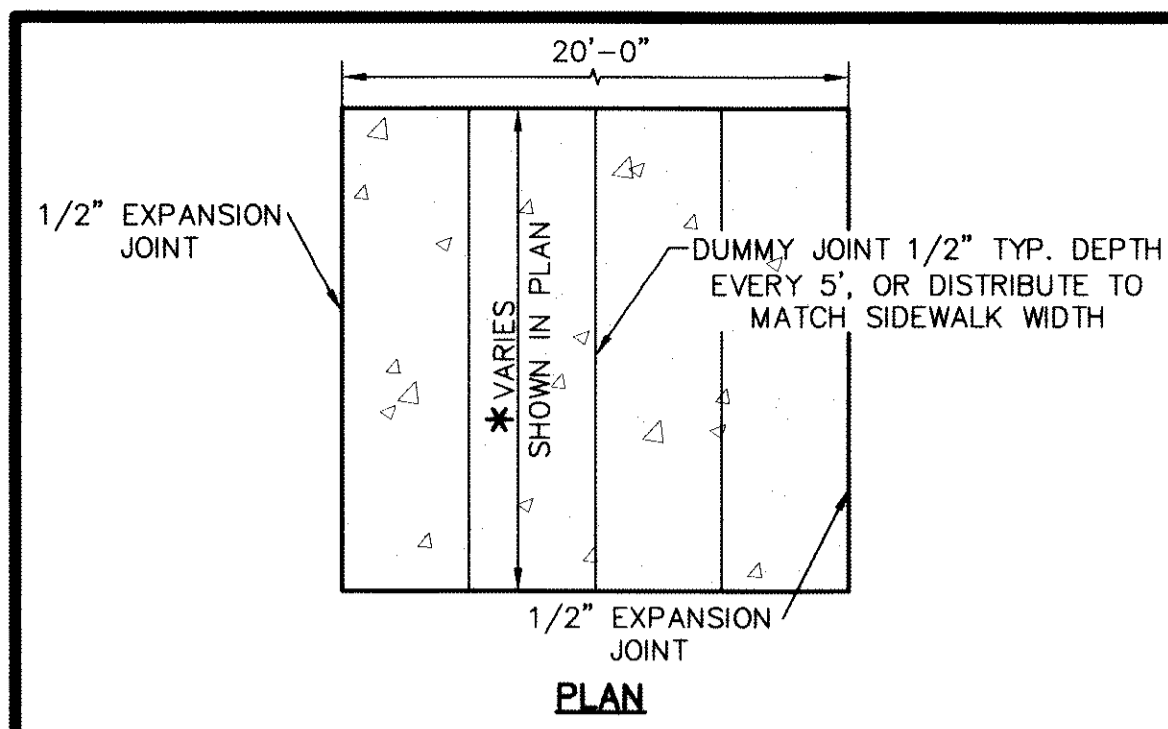
HYBRID CHANNEL #3 CROSS SECTIONS

(SHEET 7 OF 7)

SHEET NO.

C9.14

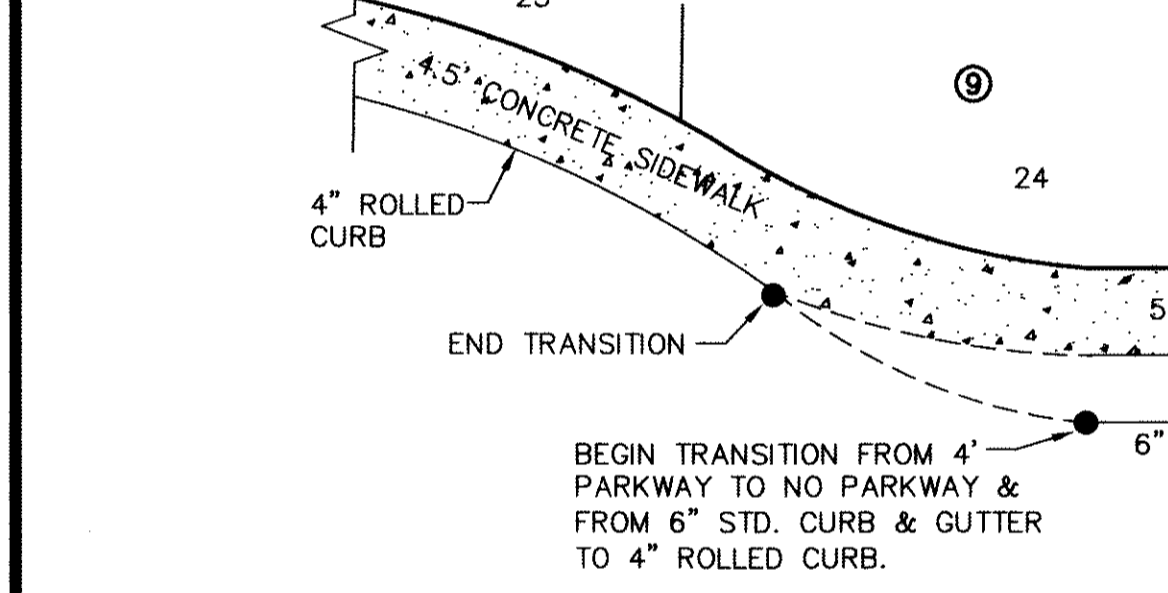




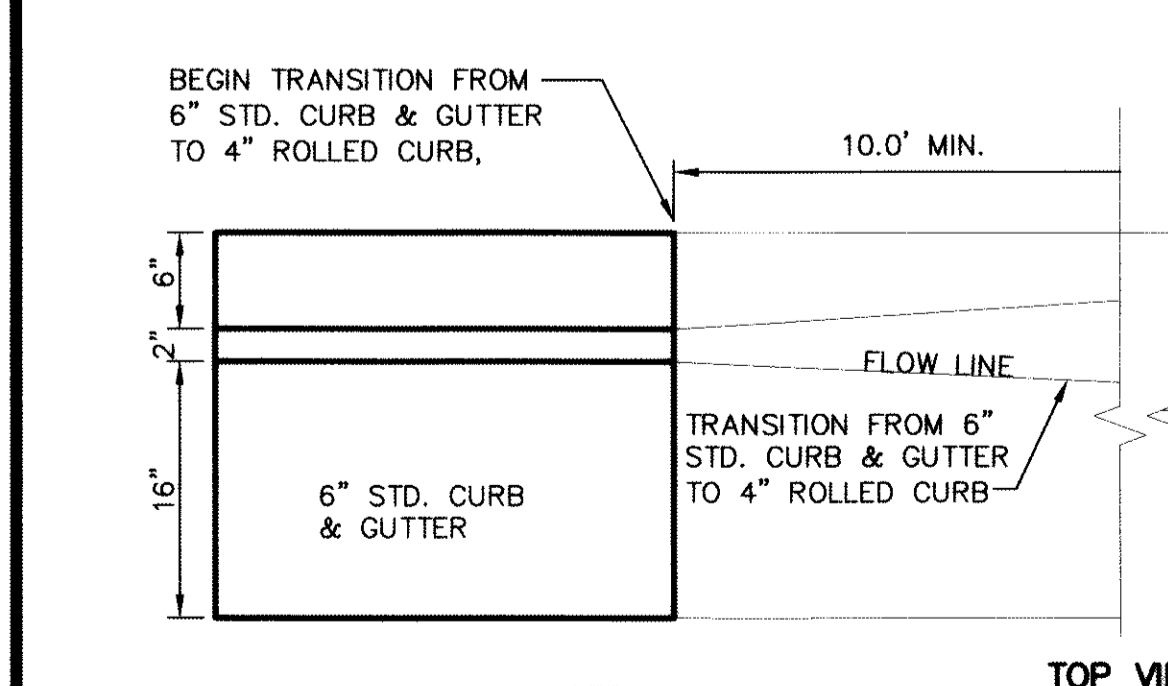
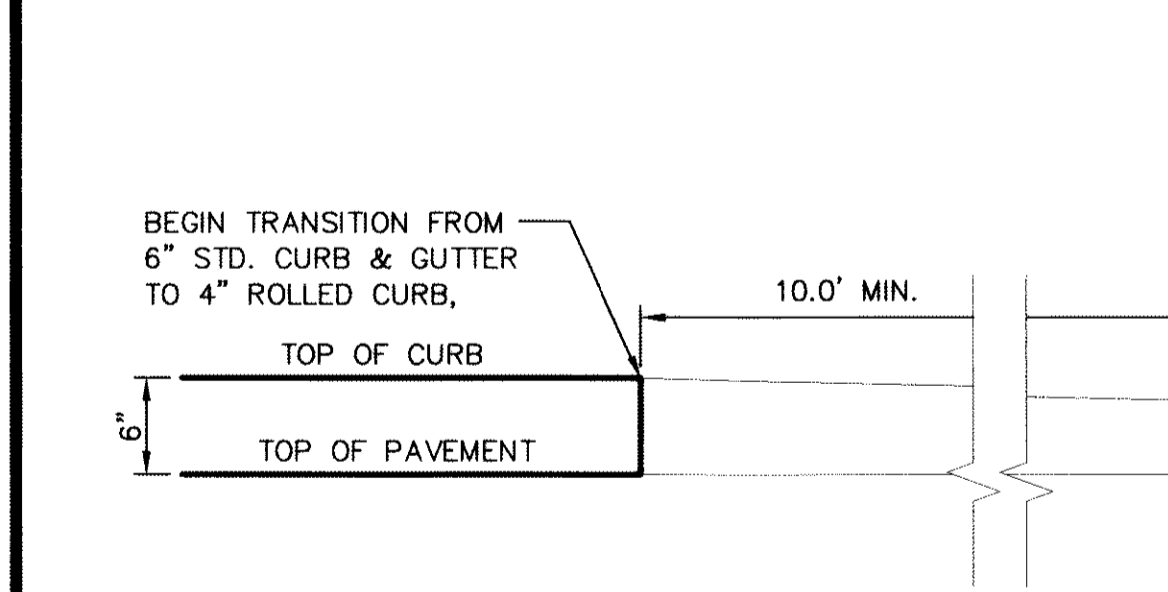
EXPANSION JOINT SECTION
SCALE: 1" = 1'-0"

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

SECTION-SIDEWALK/SLAB
SCALE: 1" = 2'-0"



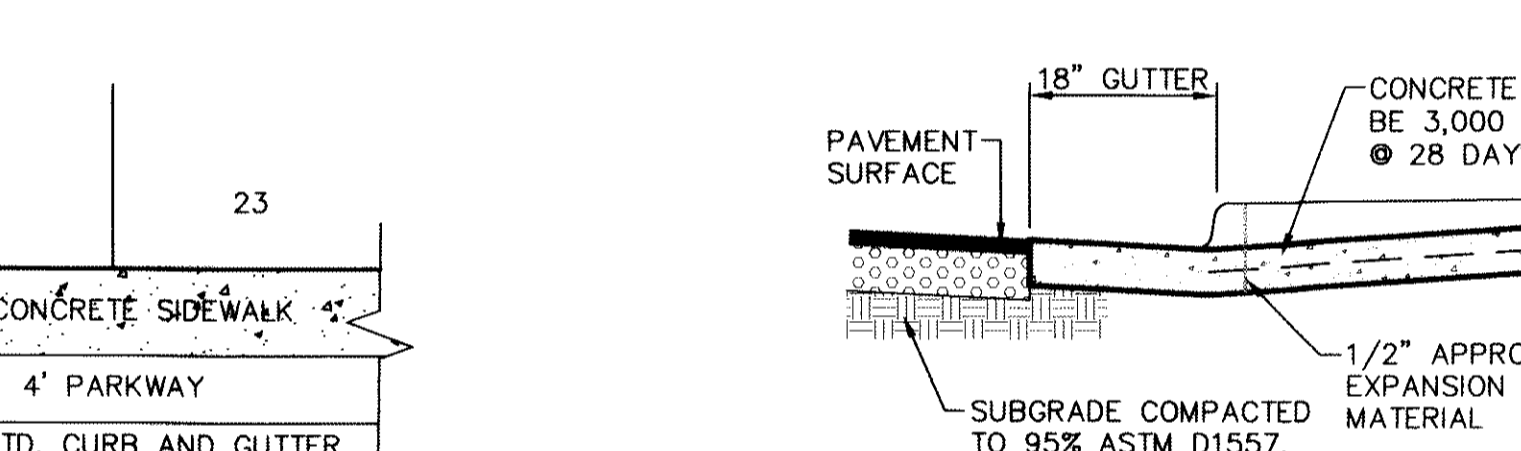
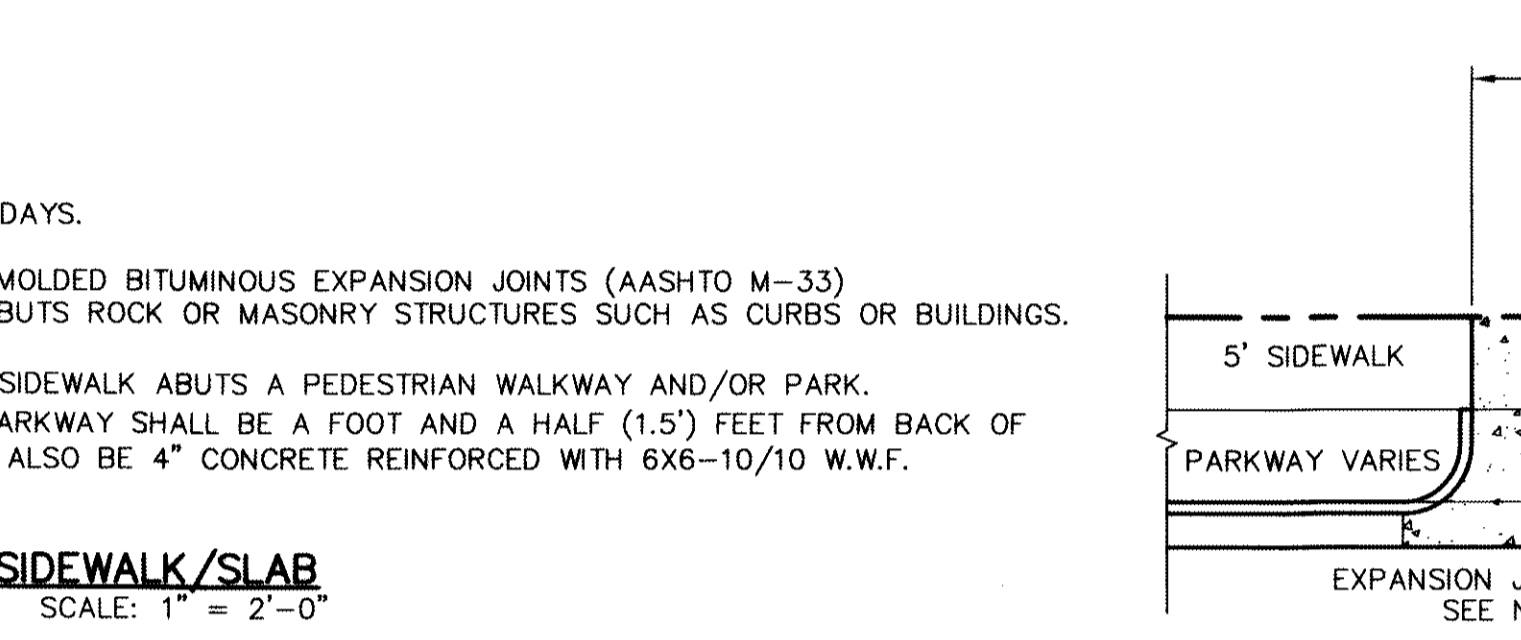
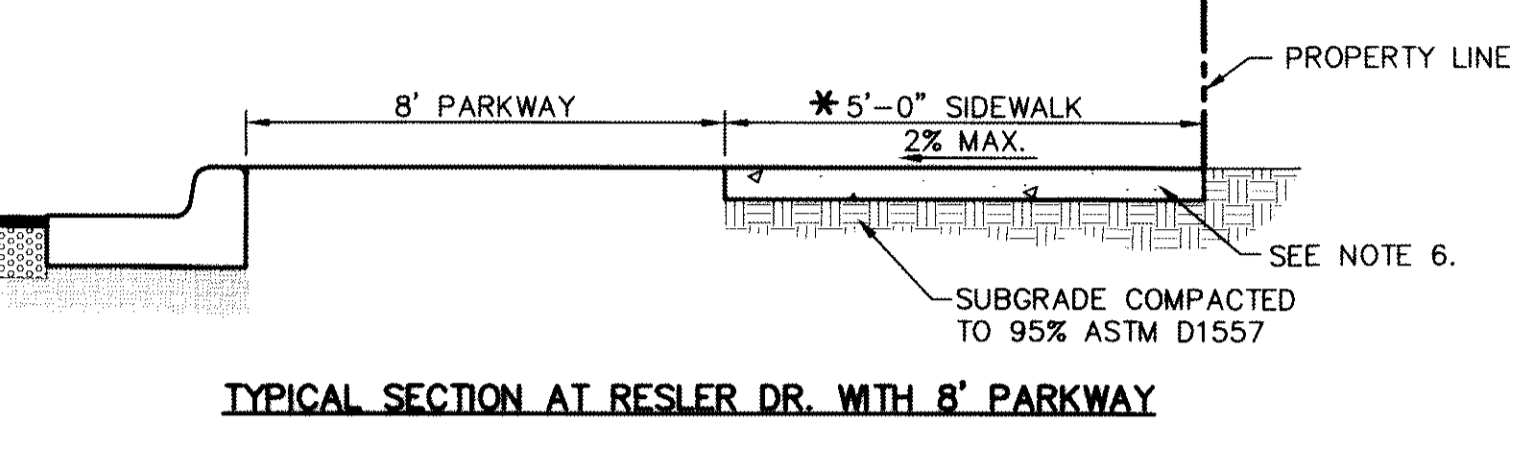
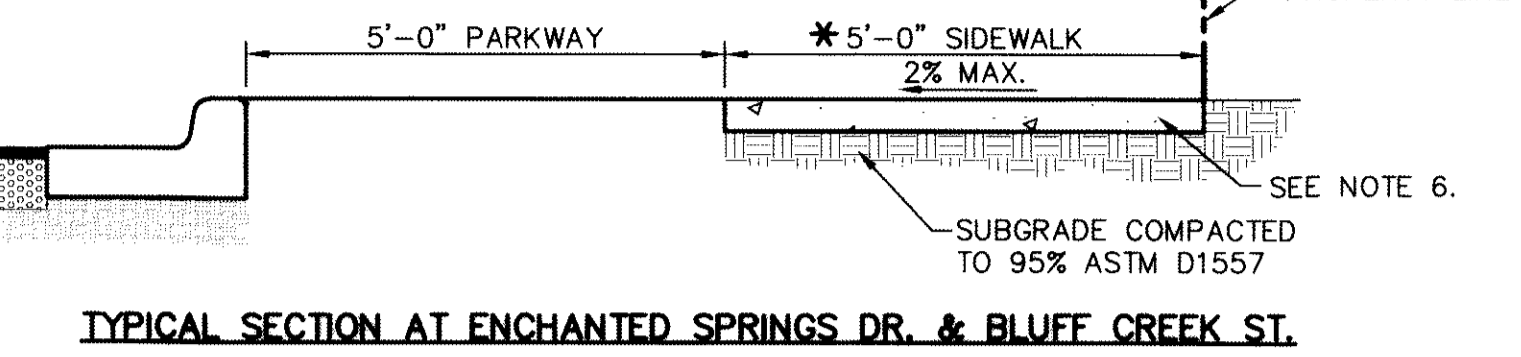
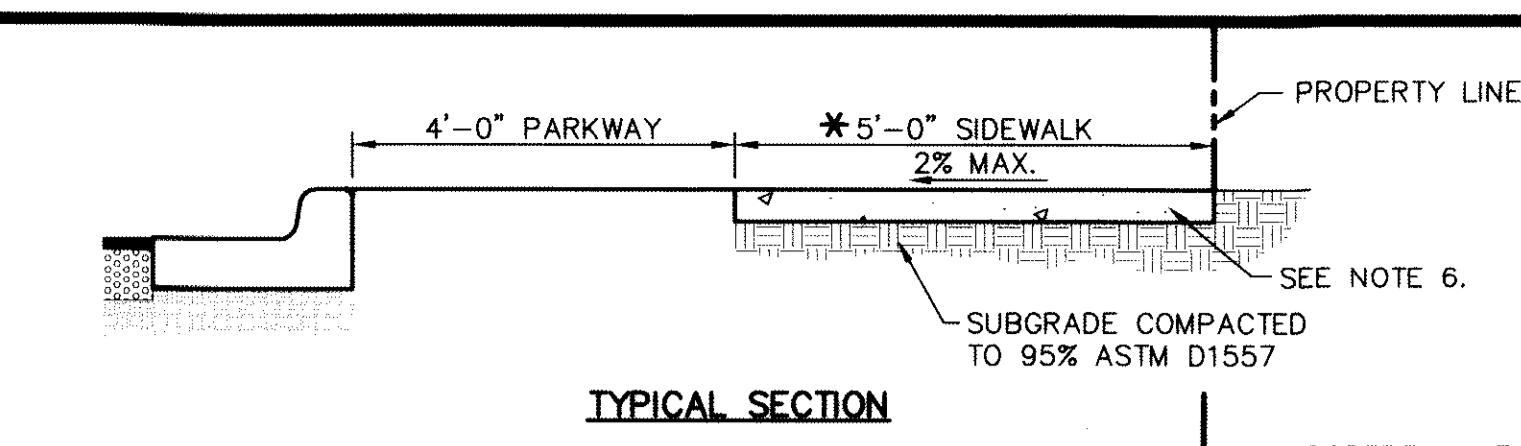
4 TYPICAL HEEL/CUL-DE-SAC SIDEWALK TRANSITION
SCALE: N.T.S.



6 CURB TRANSITION DETAIL
SCALE: 1" = 1'-0"

7 WHEELCHAIR RAMP STREET PLAN
SCALE: 1" = 30'-0"

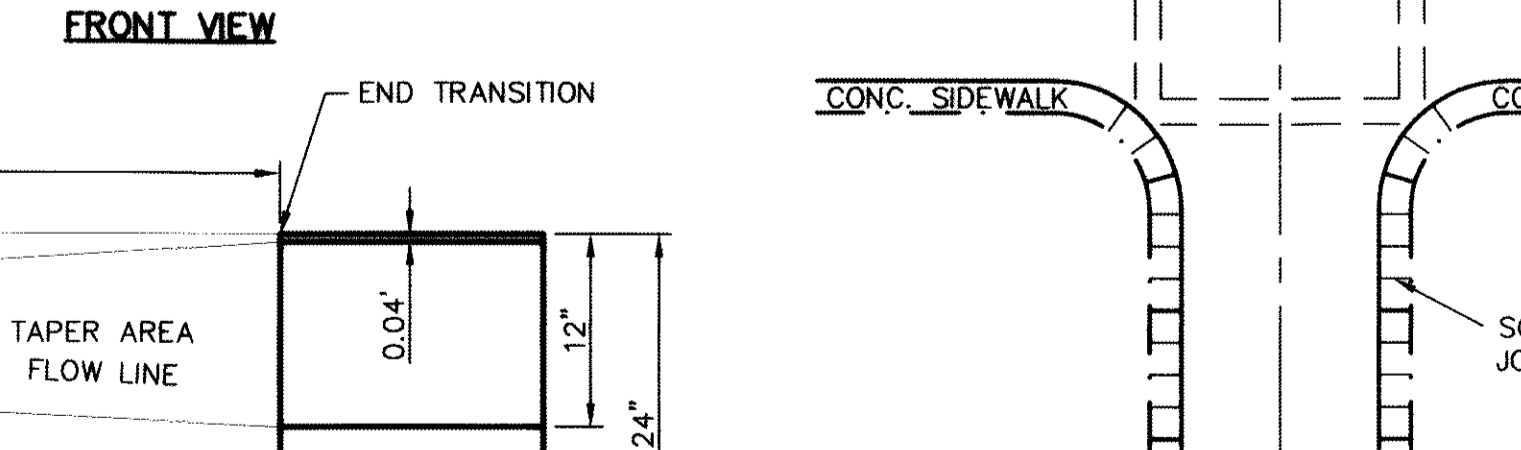
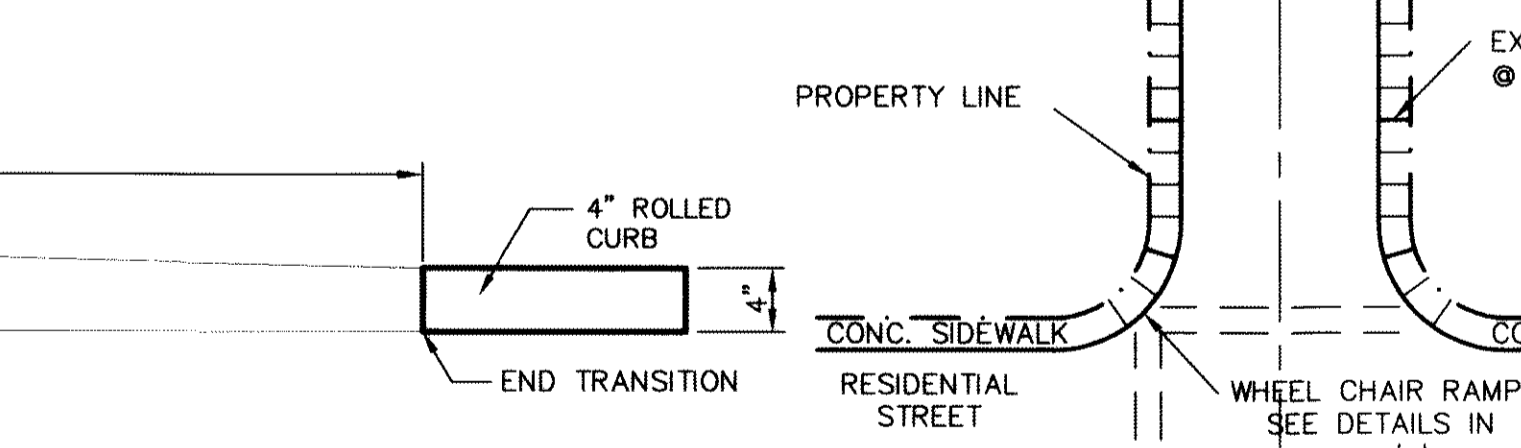
- NOTES:**
- RAMPS MAY BE PLACED AS SUGGESTED, HOWEVER EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC., MAY AFFECT PLACEMENT.
 - THE CONCRETE SURFACE SHALL HAVE A ROUGH, NONSKID TYPE FINISH.
 - CONSTRUCTION METHODS SHALL CONFORM WITH THE CITY OF EL PASO SPECIFICATIONS.
 - ALL PARKING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CURRENT CITY OF EL PASO STANDARDS.



5 COMMERCIAL DRIVEWAY DETAIL
SCALE: N.T.S.



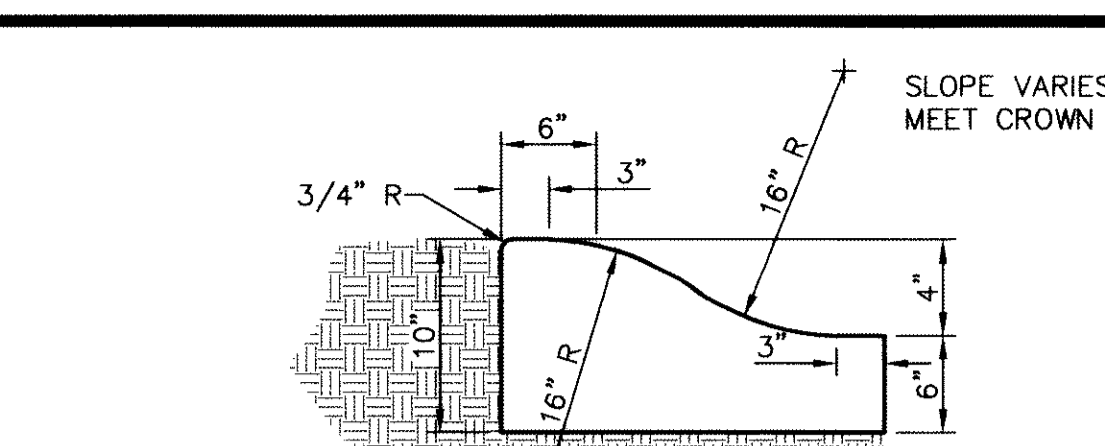
8 HEEL/CUL-DE-SAC DRIVEWAY DETAIL
SCALE: N.T.S.



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

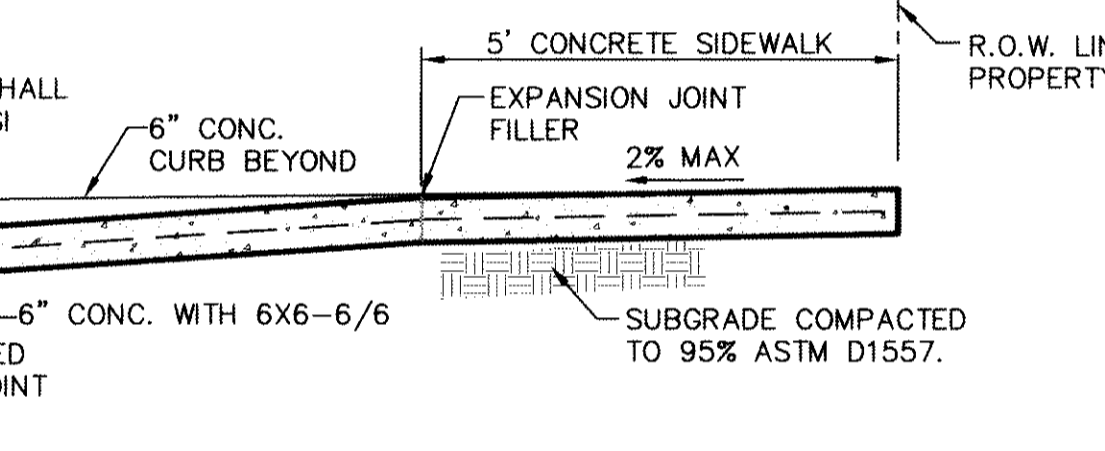
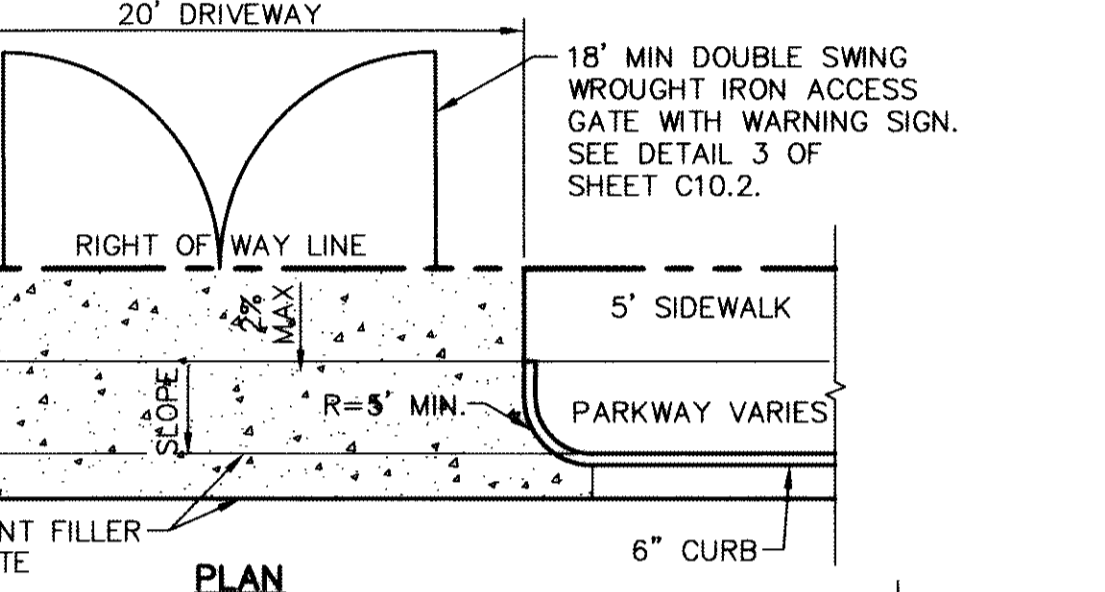
HEEL PLAN

CUL-DE-SAC PLAN

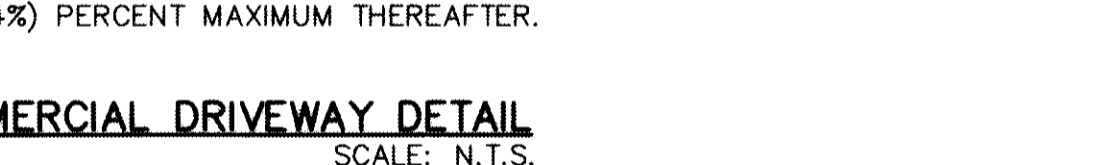


- NOTES:**
- CONCRETE TO BE 3,000 PSI MIN. @ TWENTY-EIGHT (28) DAYS.
 - DUMMY JOINTS REQUIRED AT 10' O.C. FOR HEADERS AND 5' O.C. FOR SIDEWALK
 - EXPANSION MATERIAL REQUIRED AT CURB RETURNS WITH 1/2" PREFORMED ASPHALT IMPREGATED EXPANSION MATERIAL OR EQUAL.
 - EXPANSION JOINTS REQUIRED AT FIFTY (50') FEET O.C. WHEN FORMING FOR HEADERS.
 - EXPANSION JOINTS REQUIRED FOR SIDEWALK AT TWENTY (20') FEET O.C.

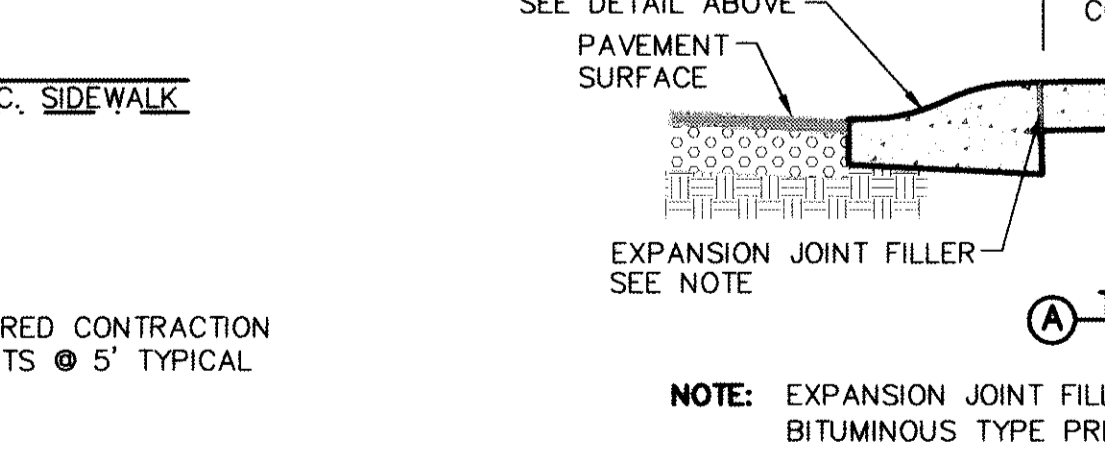
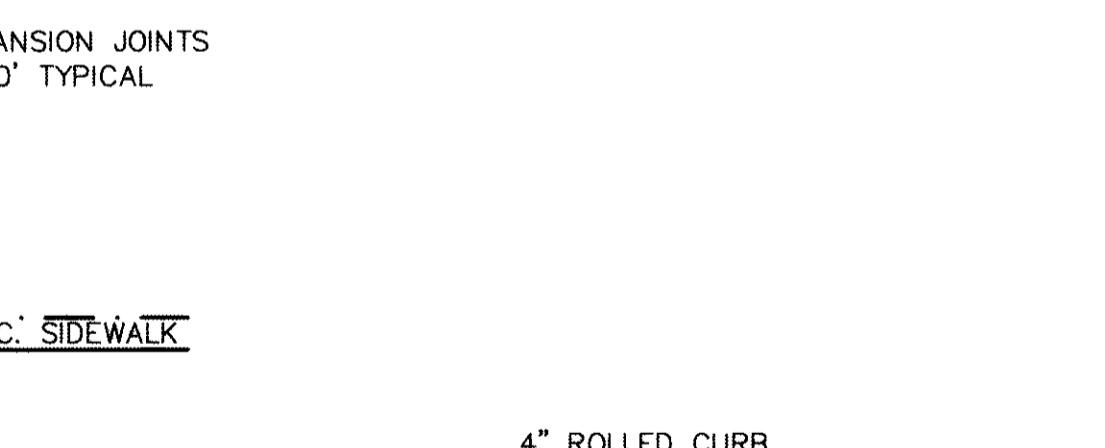
2 4" CONCRETE ROLLED CURB DETAIL
SCALE: 1" = 1'-0"



3 TYPICAL DRIVEWAY DETAIL
SCALE: N.T.S.



4 TYPICAL DRIVEWAY DETAIL
SCALE: N.T.S.

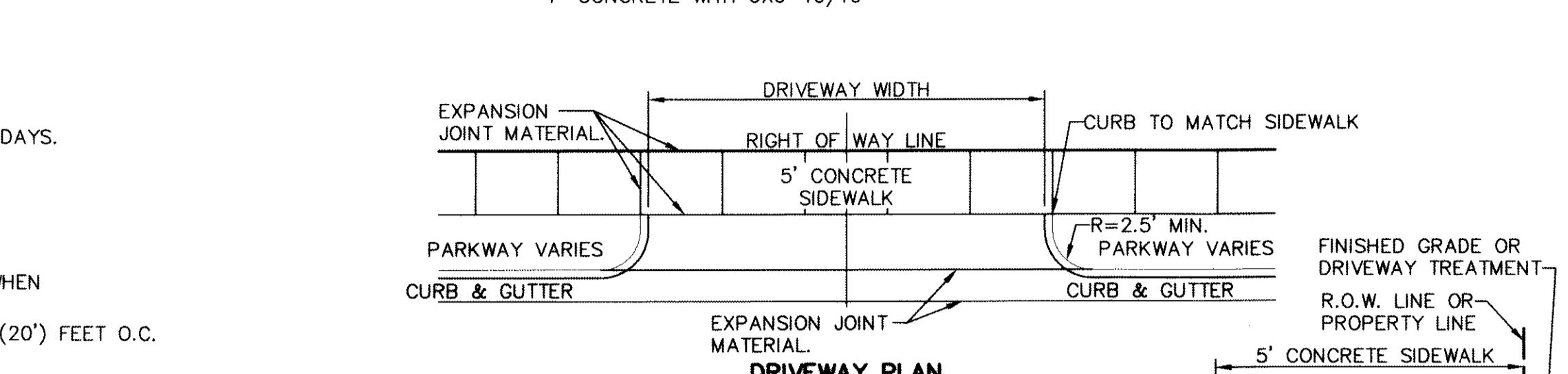
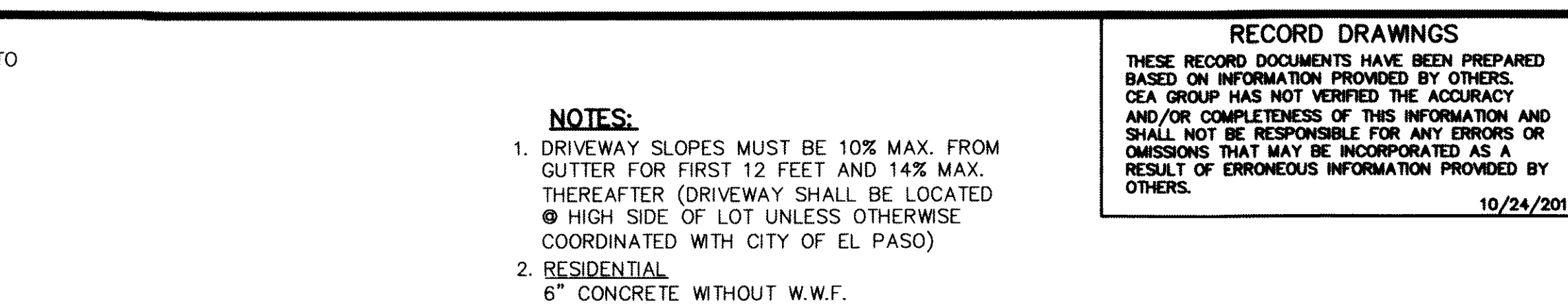


5 COMMERCIAL DRIVEWAY DETAIL
SCALE: N.T.S.

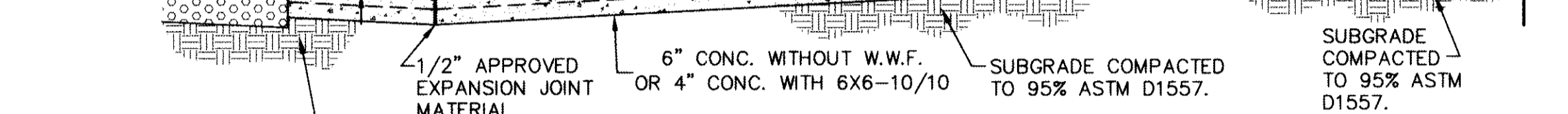
6 CURB TRANSITION DETAIL
SCALE: 1" = 1'-0"

7 WHEELCHAIR RAMP STREET PLAN
SCALE: 1" = 30'-0"

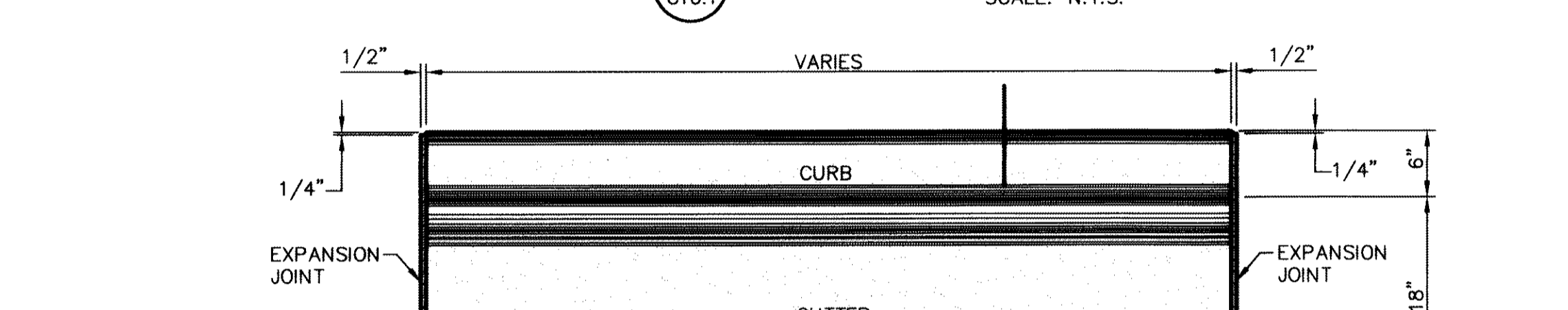
- NOTES:**
- CONCRETE CURB, GUTTER, AND RETURNS SHALL BE 3,000 P.S.I. MIN. @ TWENTY-EIGHT (28) DAYS.
 - DUMMY JOINTS REQUIRED AT 10' O.C.
 - 1/2" PREFORMED BITUMINOUS EXPANSION JOINT (AASHTO M-33) IS REQUIRED FOR ALL CURBS RETURNS. TRIM BITUMINOUS MATERIAL 1/4" LESS THAN NEAT CURB & GUTTER DIMENSION.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



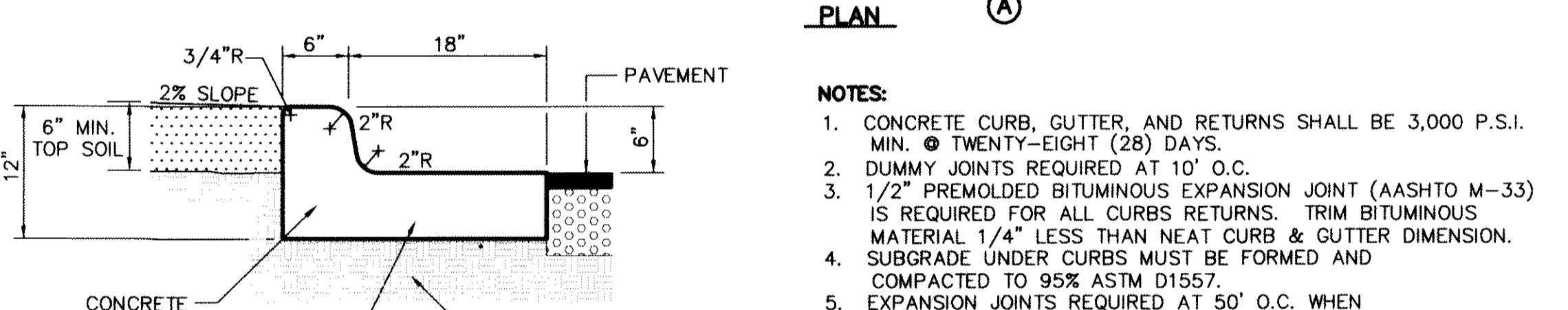
DRIVEWAY PLAN



3 TYPICAL DRIVEWAY DETAIL
SCALE: N.T.S.

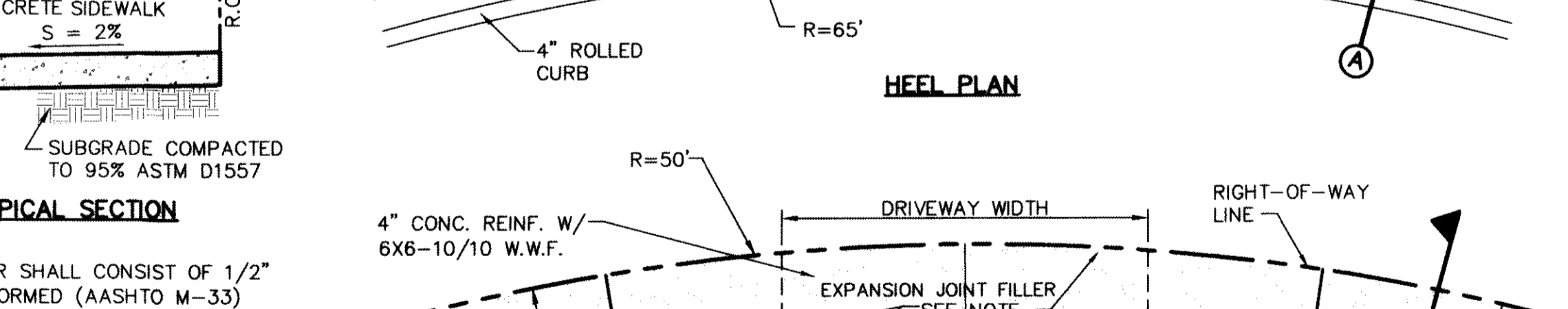
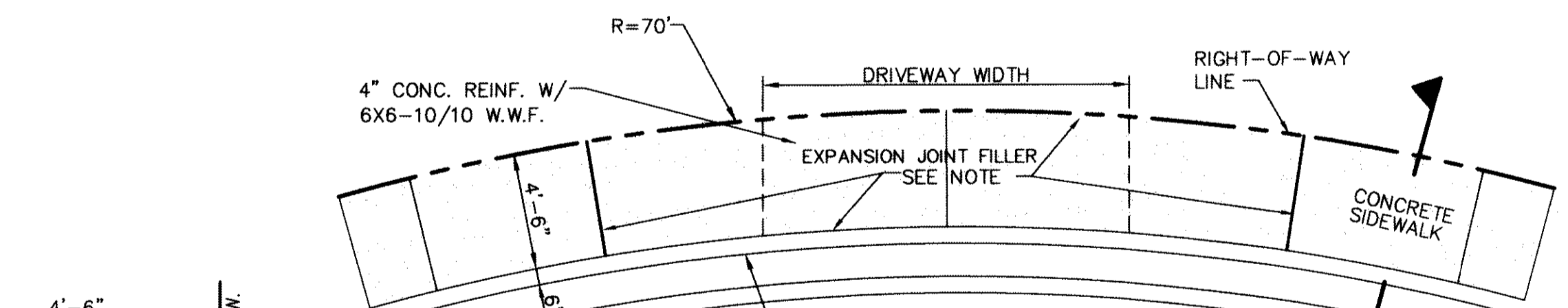


4 TYPICAL DRIVEWAY DETAIL
SCALE: N.T.S.



5 COMMERCIAL DRIVEWAY DETAIL
SCALE: N.T.S.

6 CURB TRANSITION DETAIL
SCALE: 1" = 1'-0"



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

HEEL PLAN

CUL-DE-SAC PLAN

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

RECORD DRAWINGS
THESE RECORD DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
10/24/2013

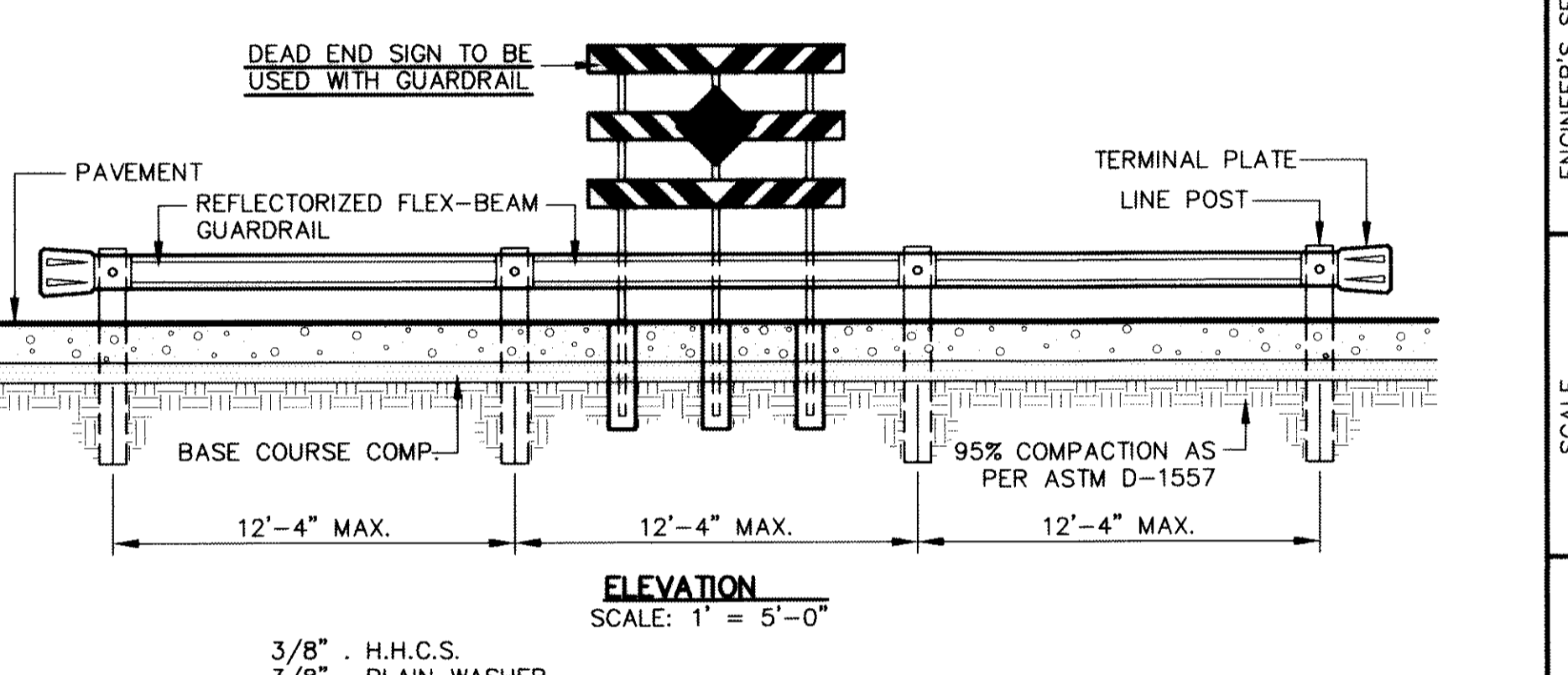
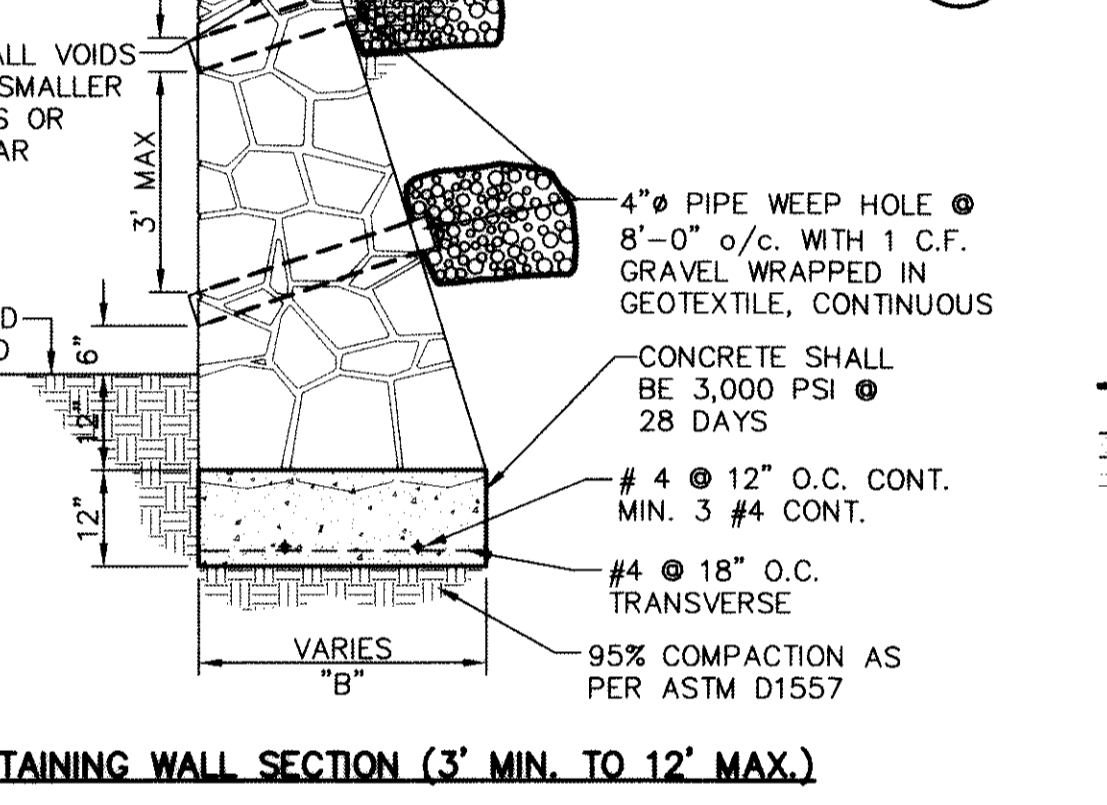
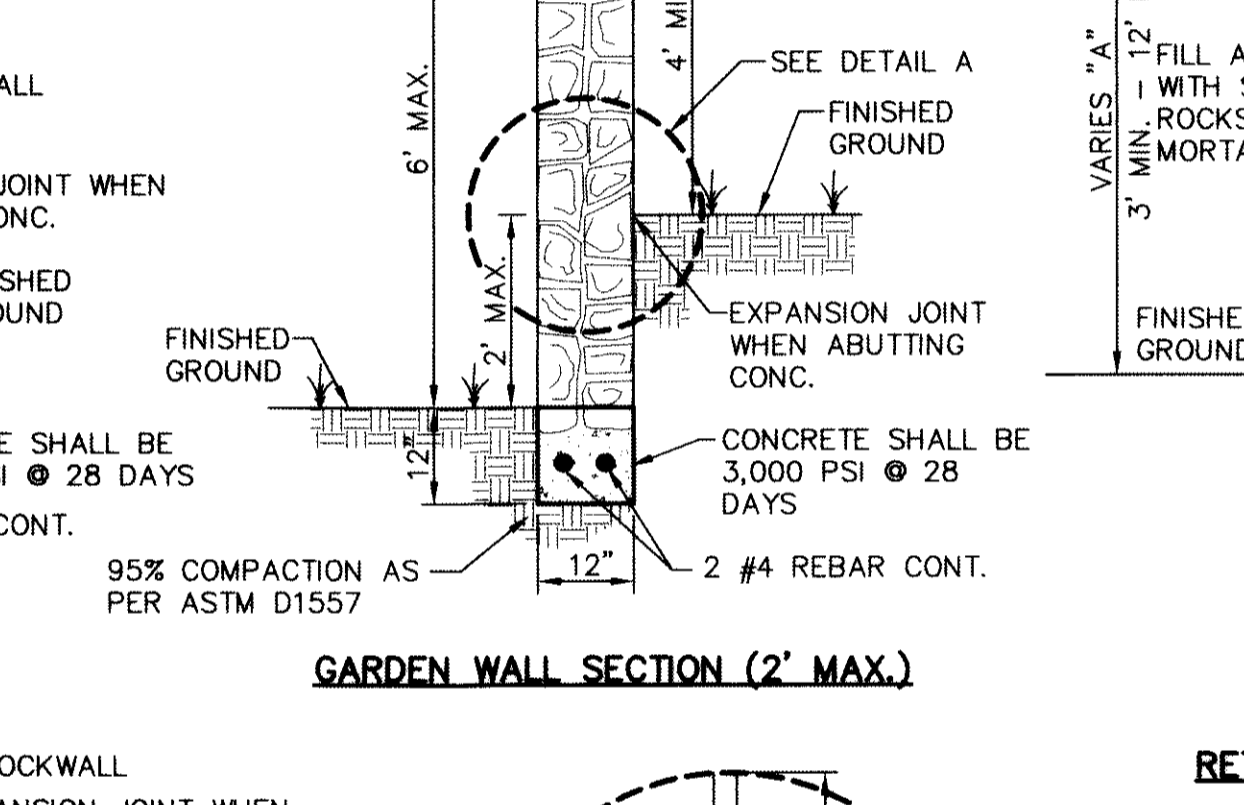
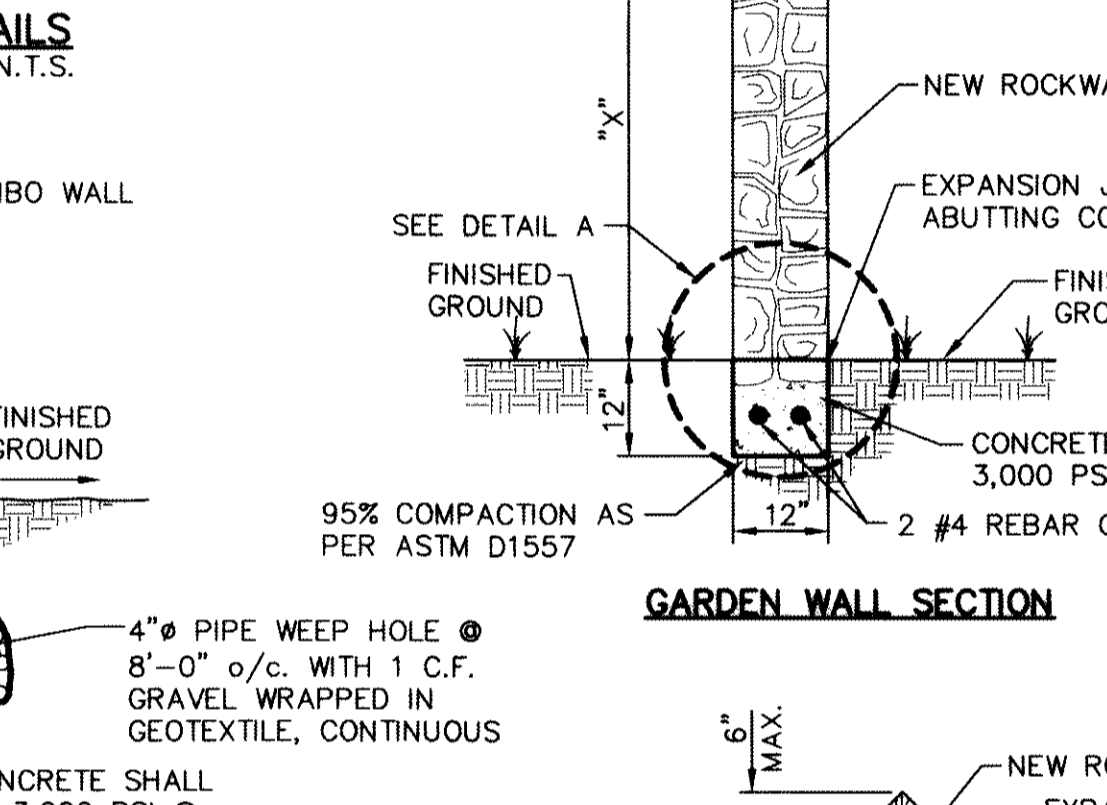
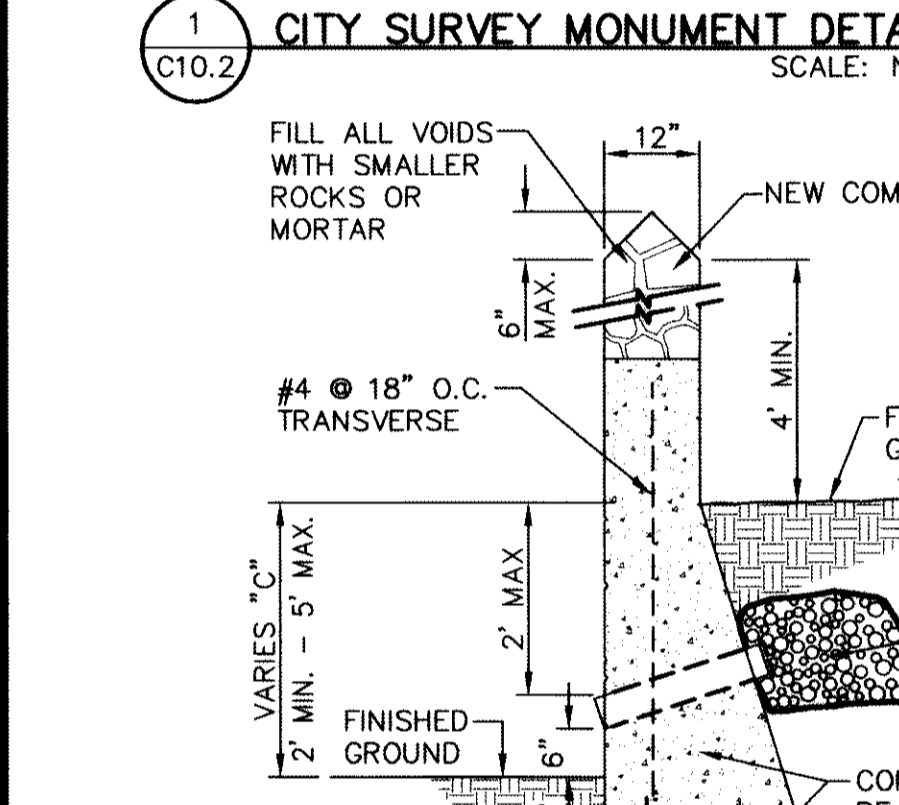
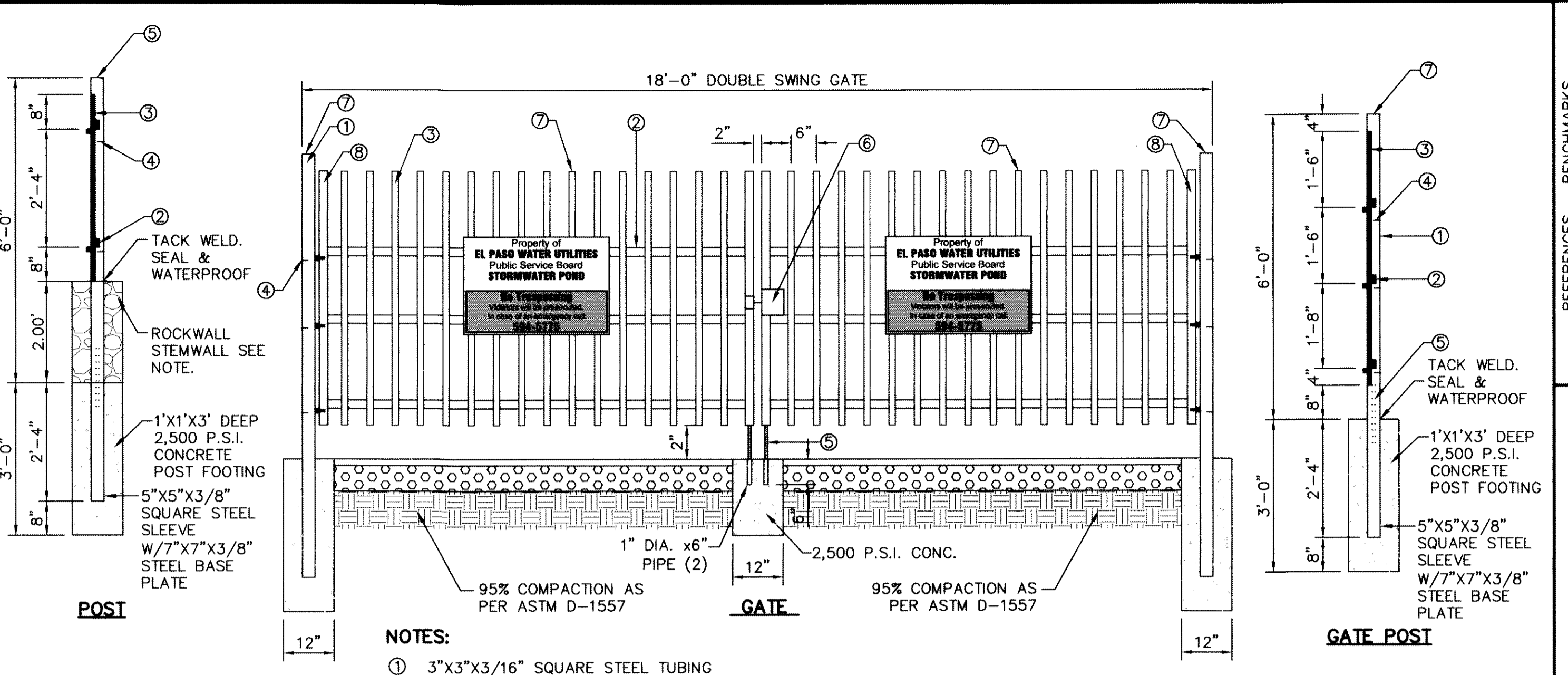
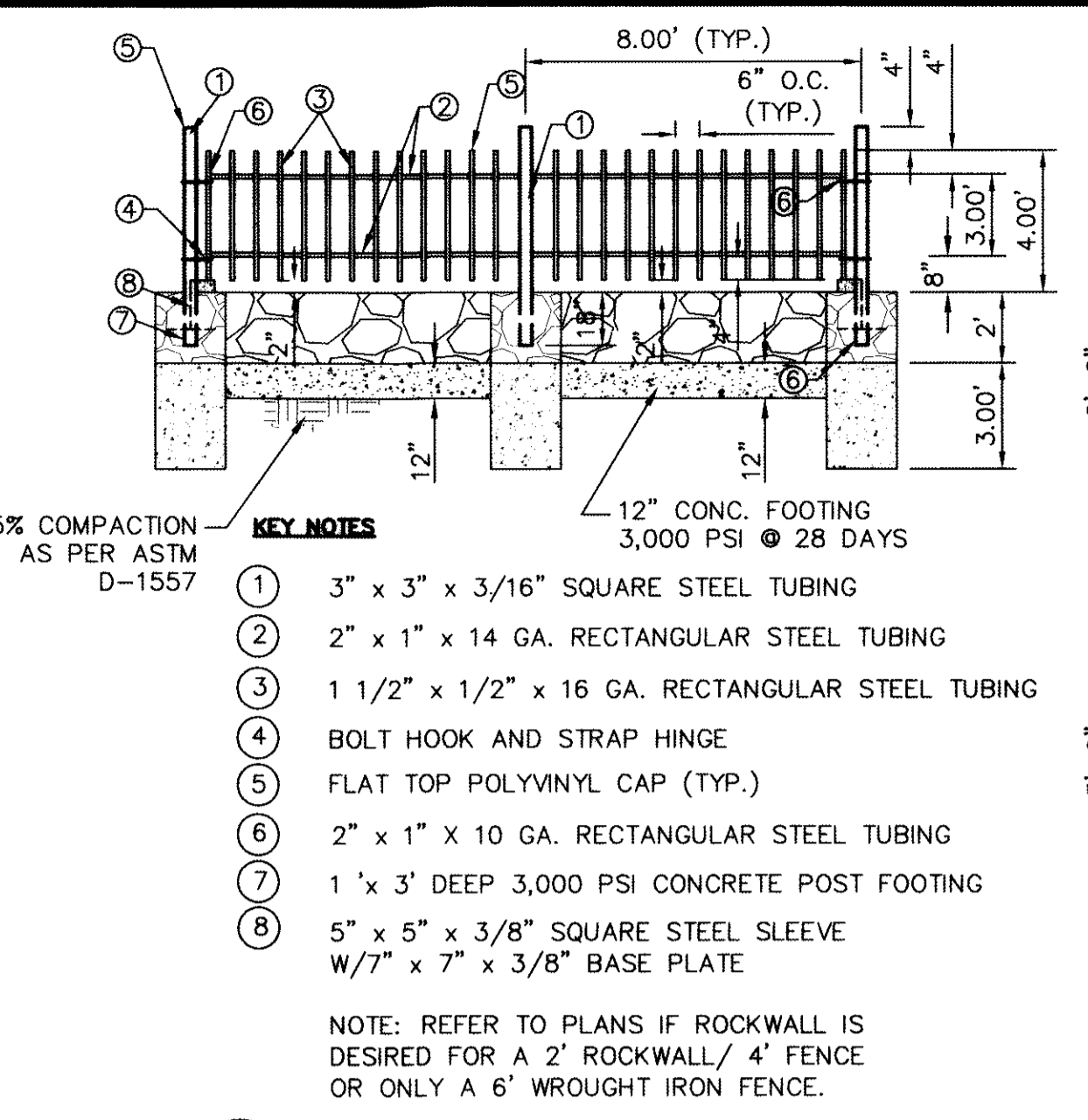
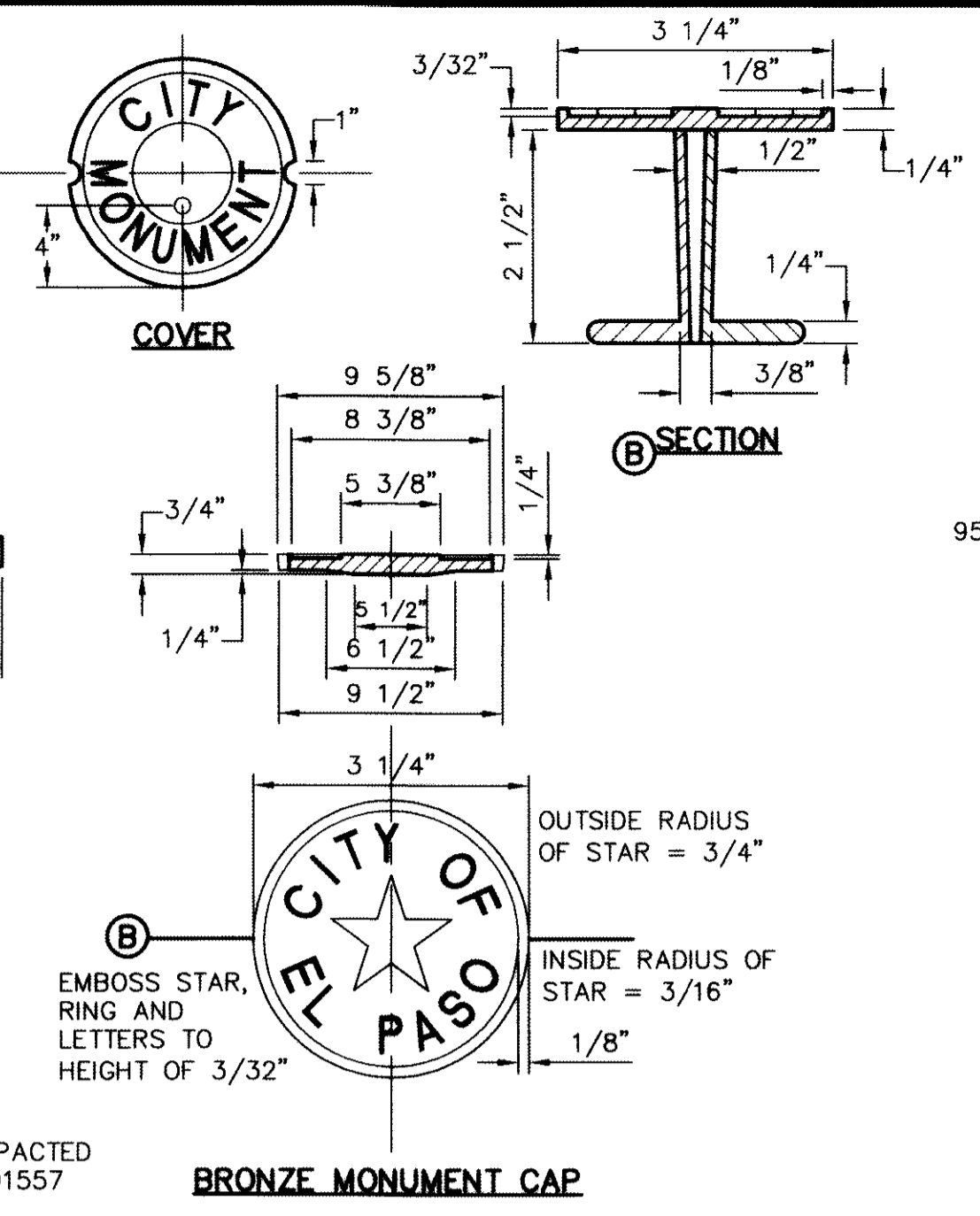
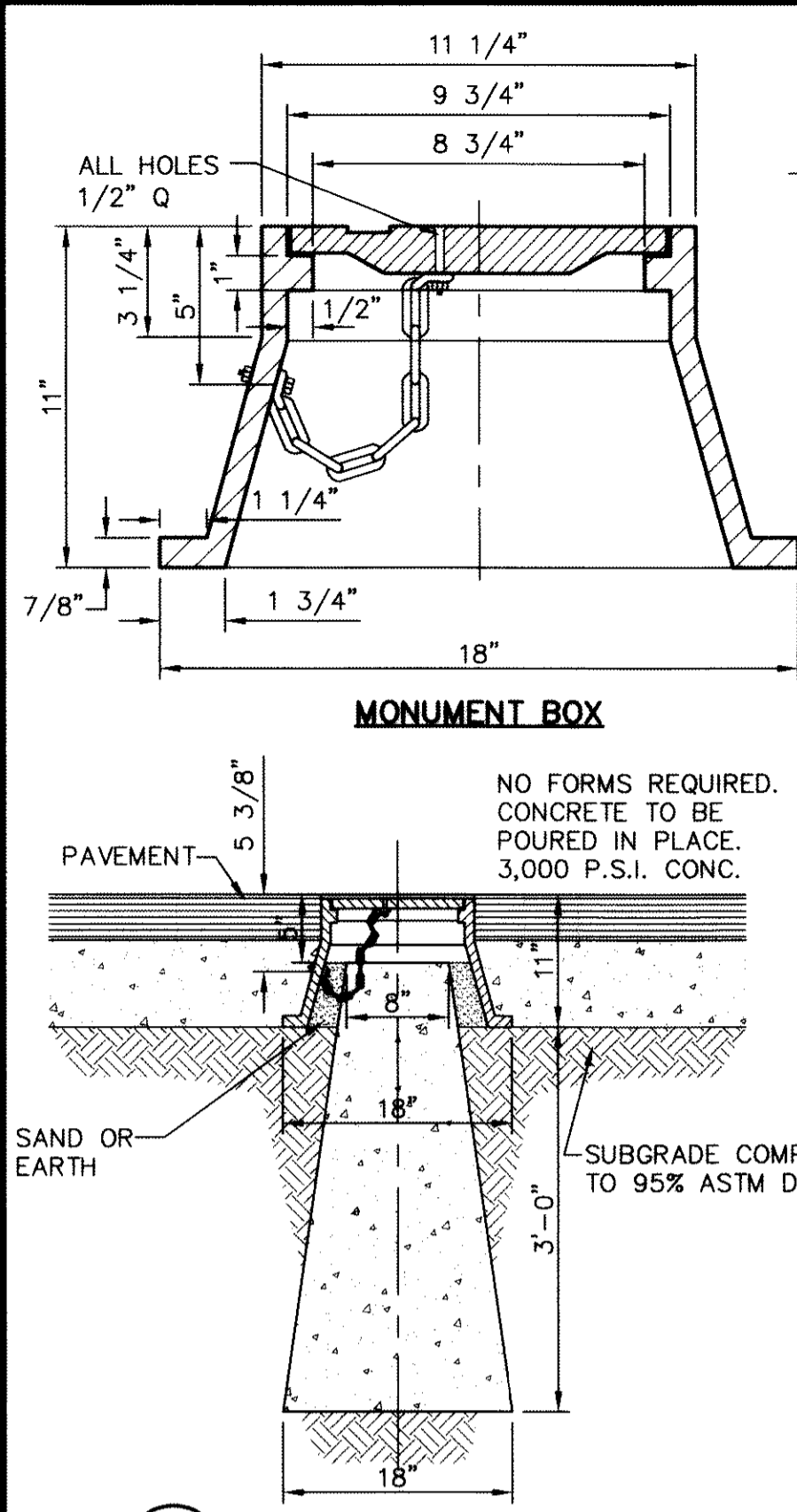
REFERENCES - BENCHMARKS
FOUND N.E.S. SURVEY MARKER STAMPED "CHINO 1980"
ELEVATION: 3855.83 (CITY OF EL PASO VERTICAL DATUM)
SHOWING (NAD 83 DATUM)
3845.78 (NAD 83 DATUM)
3845.78 (NAD 83 DATUM)
3845.78 (NAD 83 DATUM)
TIE TO THE PROJECT BENCHMARK IS 10050.92FE. 3.0208.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLE D. WINDY SURVEY NO. 239

ENGINEER'S SEAL
ALAN D. HERRER
10414
Professional Engineer
Texas State Board of Professional Engineers and Surveyors
Office: 915.544.5232 Fax: 915.544.5233 www.ceagroup.com
TEXAS FIRM REGISTRATION NO. 4584

PROJECT TITLE
DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

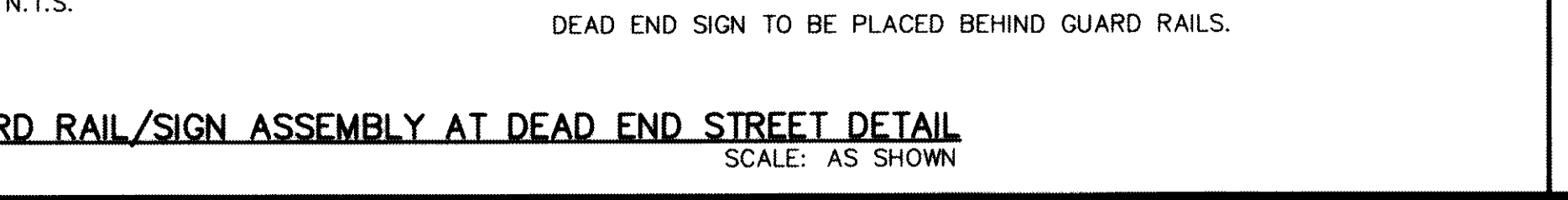
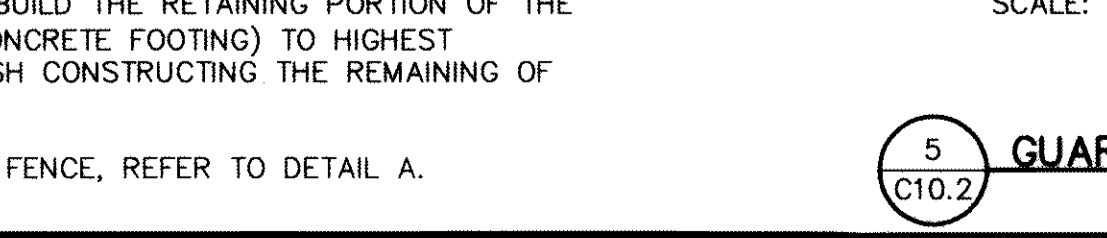
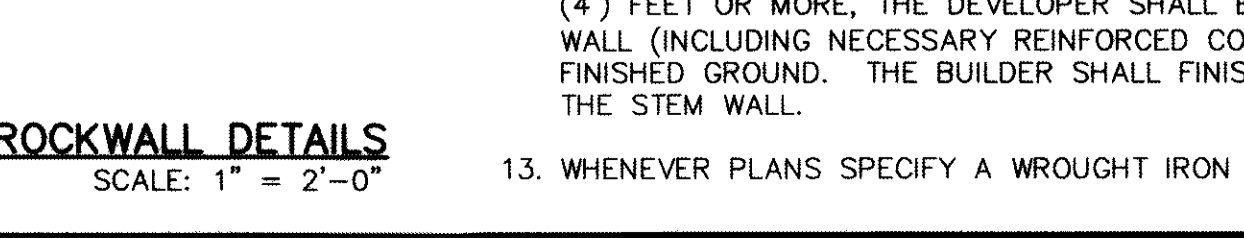
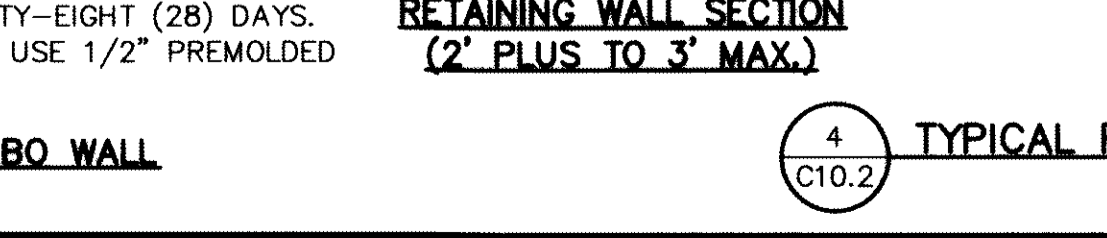
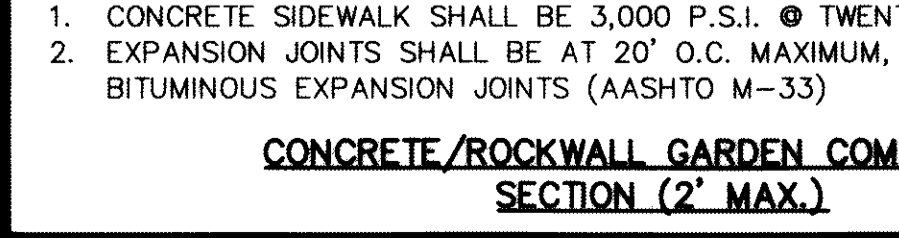
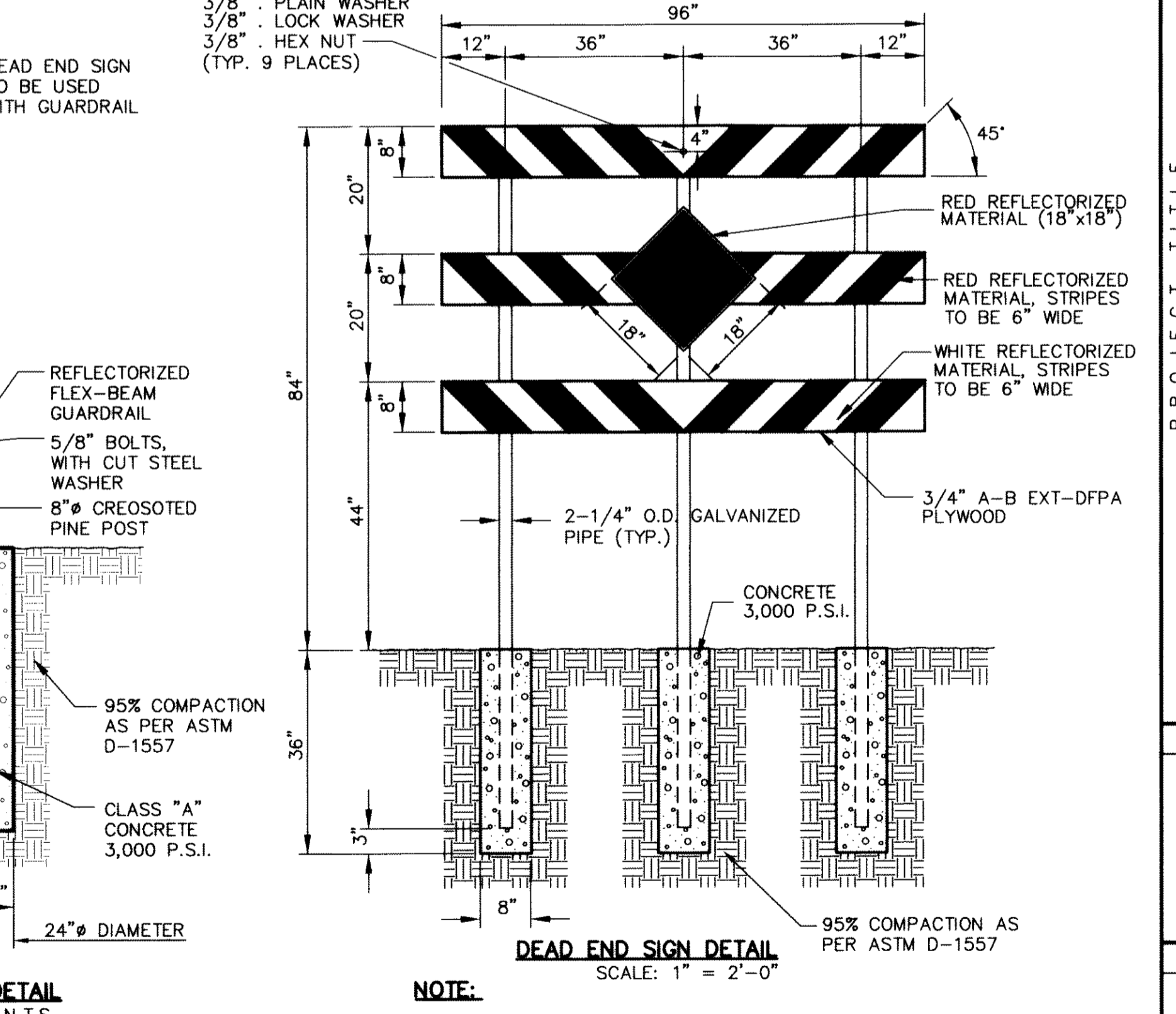
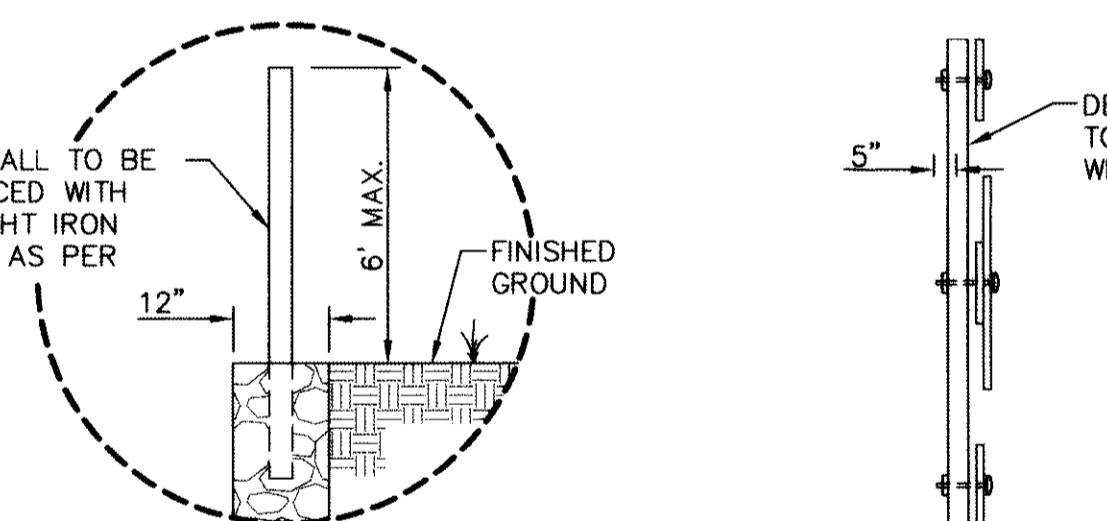
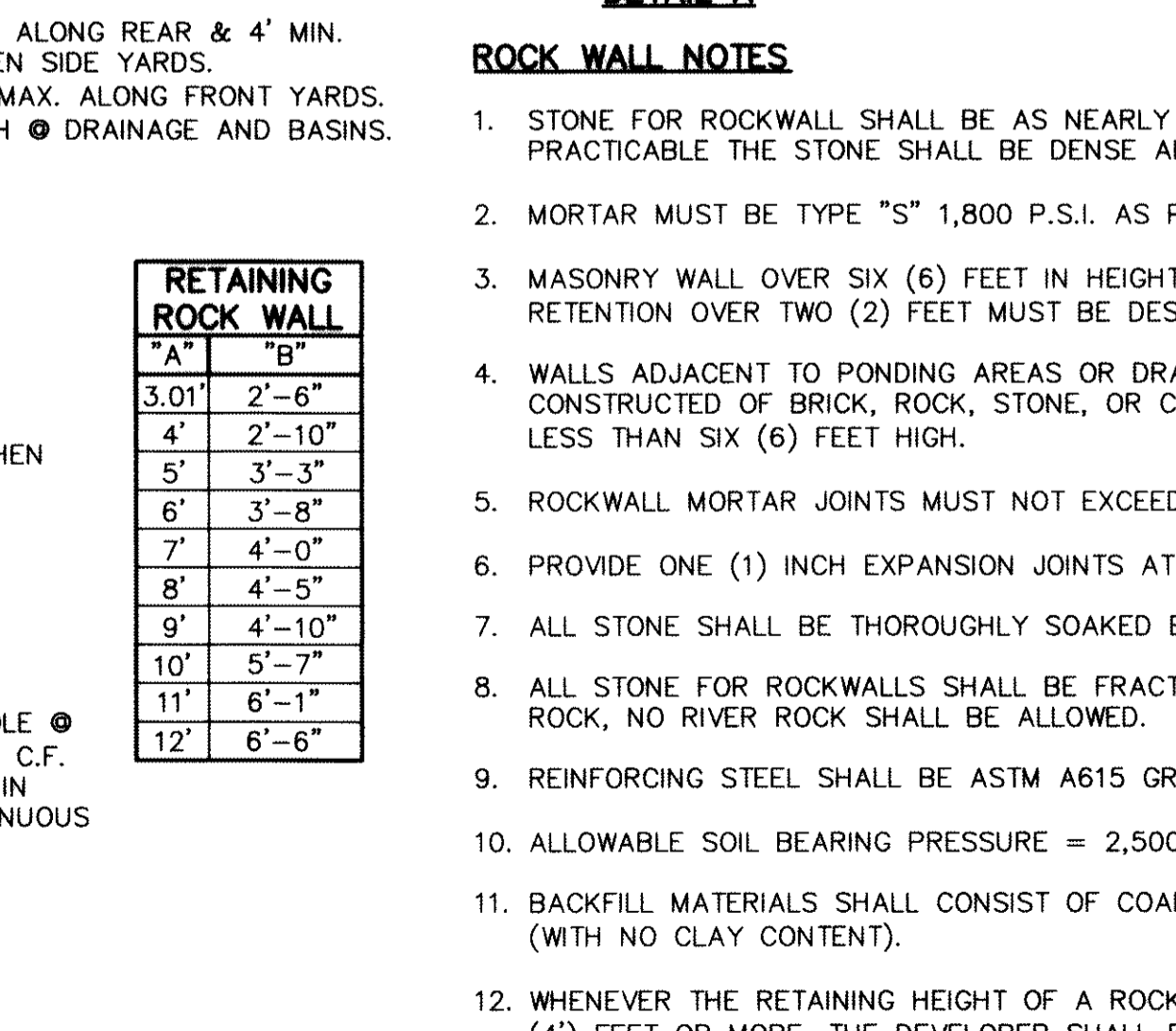
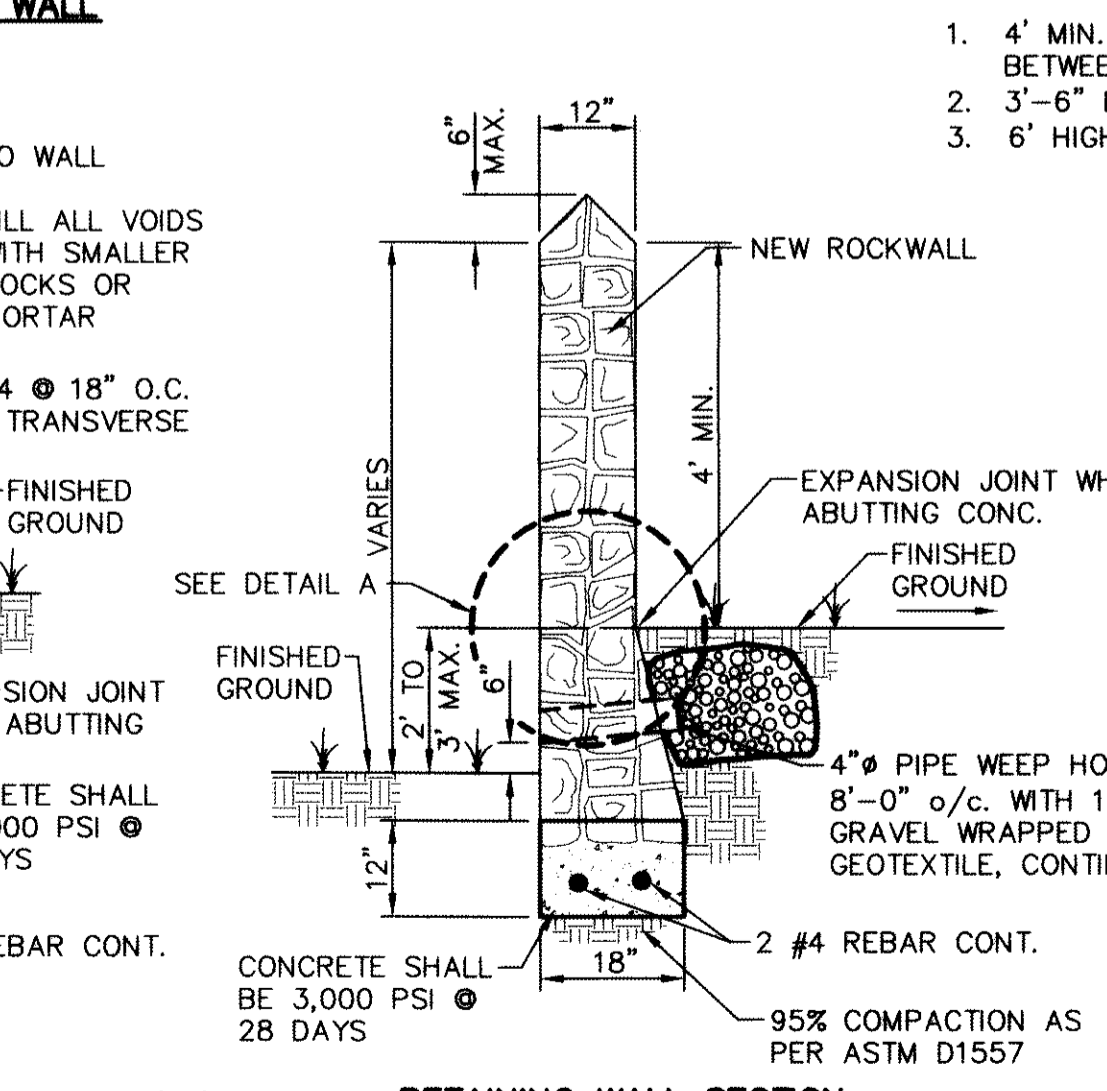
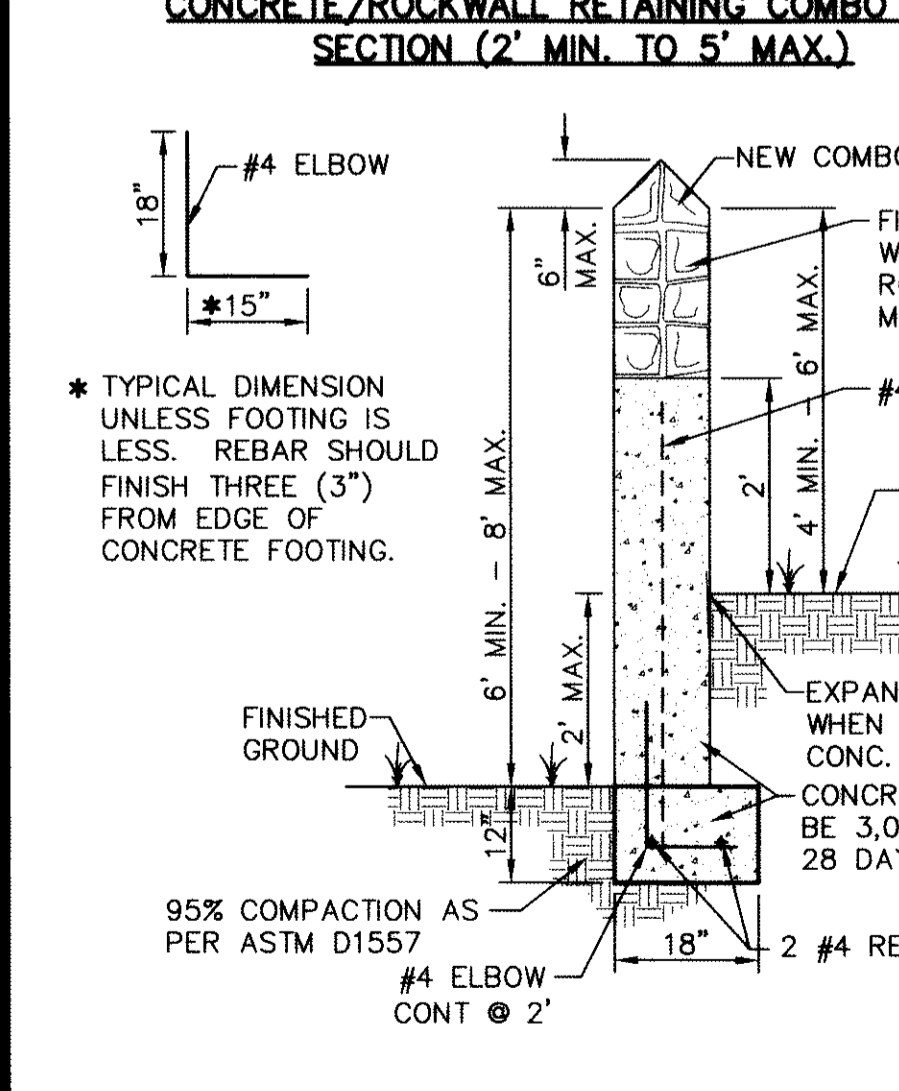
SHEET TITLE
STANDARD DETAILS
(SHEET 1 OF 5)
SHEET NO.
C10.1

SCALE
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: A.H.
JOB NO. 2050-013-LD



| "C" | "D" |
|-----|--------|
| 2' | 1'-6" |
| 3' | 2'-6" |
| 4' | 2'-10" |
| 5' | 3'-3" |

1. CONCRETE SIDEWALK SHALL BE 3,000 P.S.I. @ TWENTY-EIGHT (28) DAYS.
2. EXPANSION JOINTS SHALL BE AT 20' O.C. MAXIMUM, USE 1/2" PREMOLDED BITUMINOUS EXPANSION JOINTS (AASHTO M-33)



- KEY NOTES**
- 1 3" x 3" x 3/16" SQUARE STEEL TUBING
 - 2 2" x 1" x 14 GA. RECTANGULAR STEEL TUBING
 - 3 1 1/2" x 1/2" x 16 GA. RECTANGULAR STEEL TUBING
 - 4 BOLT HOOK AND STRAP HINGE
 - 5 FLAT TOP POLYVINYL CAP (TYP.)
 - 6 2" x 1" x 10 GA. RECTANGULAR STEEL TUBING
 - 7 1" x 3" DEEP 3,000 PSI CONCRETE POST FOOTING
 - 8 5" x 5" x 3/8" SQUARE STEEL SLEEVE W/7" x 7" x 3/8" BASE PLATE
- NOTE: REFER TO PLANS IF ROCKWALL IS DESIRED FOR A 2' ROCKWALL/ 4' FENCE OR ONLY A 6' WROUGHT IRON FENCE.

- NOTES:**
- 1 3"x3"x3/16" SQUARE STEEL TUBING
 - 2 2"x1"x14 GA. RECTANGULAR STEEL TUBING
 - 3 1 1/2"x 1/2" X16 GA. RECTANGULAR STEEL TUBING
 - 4 BOLT HOOK AND STRAP HINGE
 - 5 CANE BOLT LATCH W/KEEPER 5-8"x18" LONG (2 REQUIRED)
 - 6 DOUBLE GATE HEAVY DUTY INDUSTRIAL LATCH W/PAD LOCK
 - 7 FLAT TOP POLYVINYL CAP
 - 8 2"x1"x10 GA. RECTANGULAR STEEL TUBING

RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013

REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CITY OF PASO VERTICAL DATUM" (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NAVD 88 DATUM)
 3945.83 (NAVD 88 DATUM)
 TIE TO THE PROJECT DATUM BY A 1/2" REAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLE D. MUNDY SURVEY No. 239
 DATE: _____ BY: _____

ceagroup
 engineers • architects • planners
 Customer Center @ Transmountain
 4712 Woodrow Bean, Ste. F, El Paso, TX 79904
 Office 915.762.1100
 TEXAS REGISTRATION NO. 0684

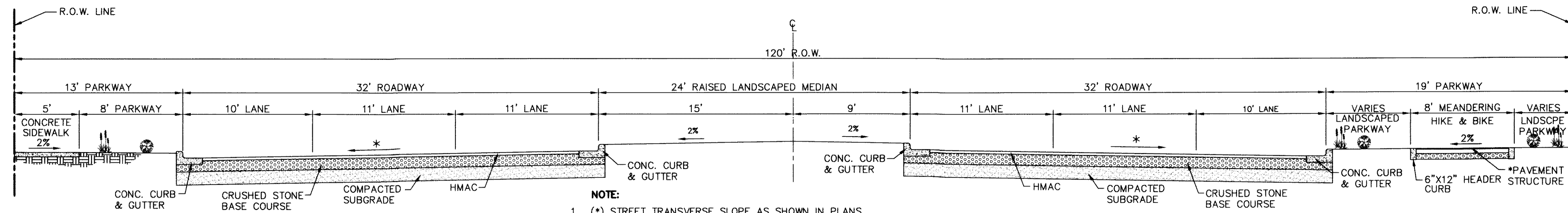
ENGINEER'S SEAL
 SCALE: AS SHOWN
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHECKED BY: J.L.A.
 APPROVED BY: A.H.
 JOB NO. 2050-013-1D

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**STANDARD
 DETAILS**
 (SHEET 2 OF 5)
 SHEET NO.

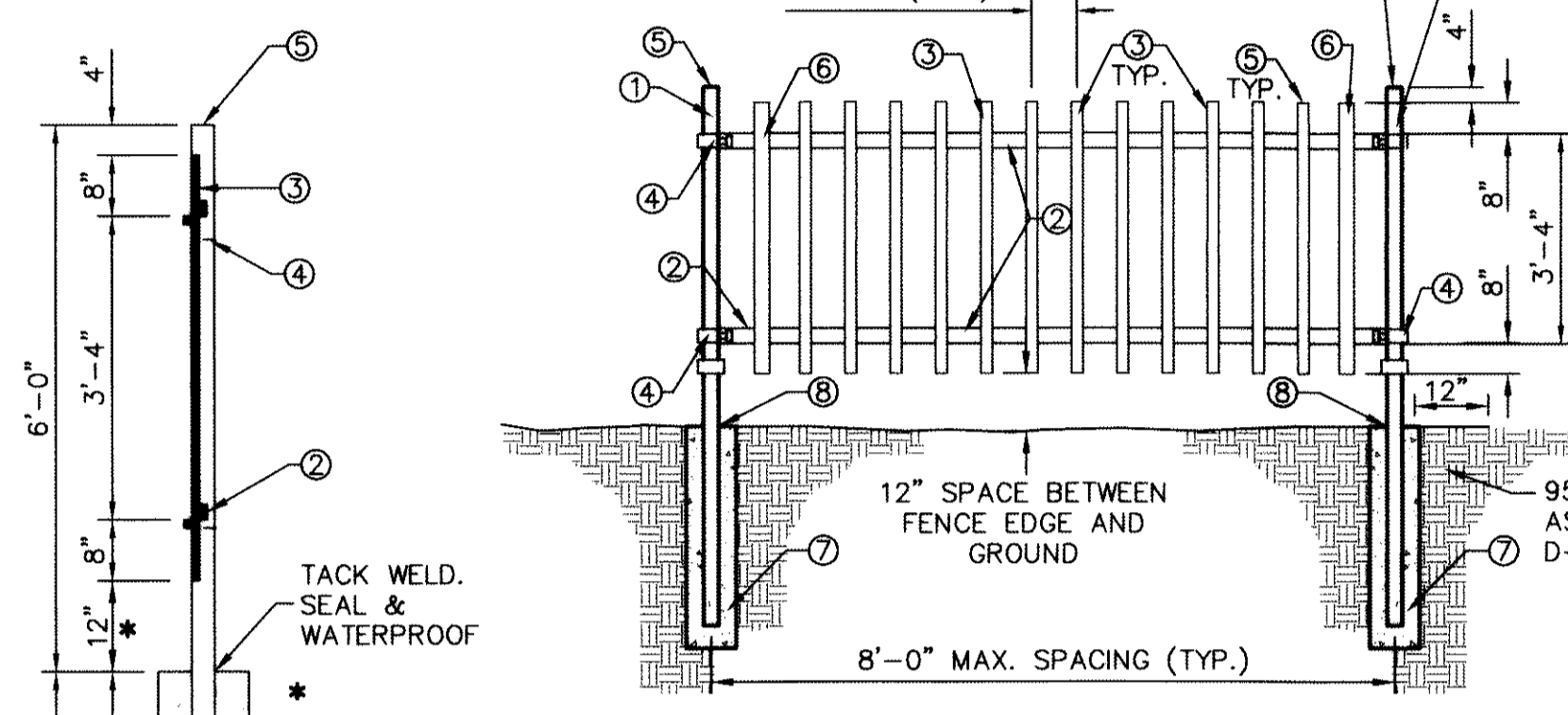
C10.2

RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. OEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013

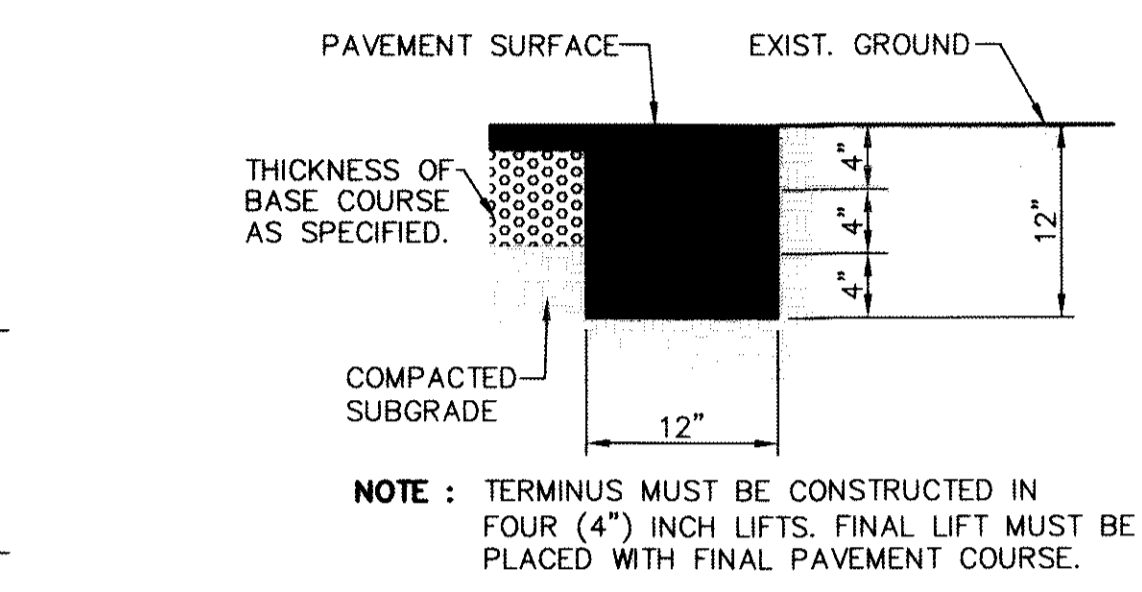


- NOTE:**
- (*) STREET TRANSVERSE SLOPE AS SHOWN IN PLANS.
 - SIDEWALK WIDTH IS REQUIRED TO COMPLY WITH ADA/TAS REGULATIONS.
 - STREET IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF EL PASO PAVING CONSTRUCTION DETAILS AND STANDARD SPECIFICATIONS: CBR @ EVERY 500' RESULTS TO BE SUBMITTED TO THE CITY OF EL PASO FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF PAVEMENT.
 - SHALL COMPLY WITH THE CURRENT MUTCD MANUAL AND CITY OF EL PASO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND REGULATIONS.
 - PROPOSED MEANDERING HIKE/BIKE TRAIL ON RESLER DRIVE SHALL MATCH EXISTING HIKE/BIKE TRAIL LOCATED SOUTH OF TRANSMOUNTAIN DRIVE ON EXISTING RESLER DRIVE.
 - ON LANDSCAPED PARKWAYS AND LANDSCAPED MEDIANS, REFER TO LANDSCAPED PLANS FOR ADDITIONAL INFORMATION ON LANDSCAPING DESIGN & IRRIGATION DESIGN.
- * PAVEMENT STRUCTURE:**
 1 1/2" HMAc TYPE D SEAL COATED (2 COATS)
 6" CSBC 100% COMPACTED AS PER ASTM D-1557
 8" SCARIFIED SUBGRADE 95% COMPACTED AS PER ASTM D-1557

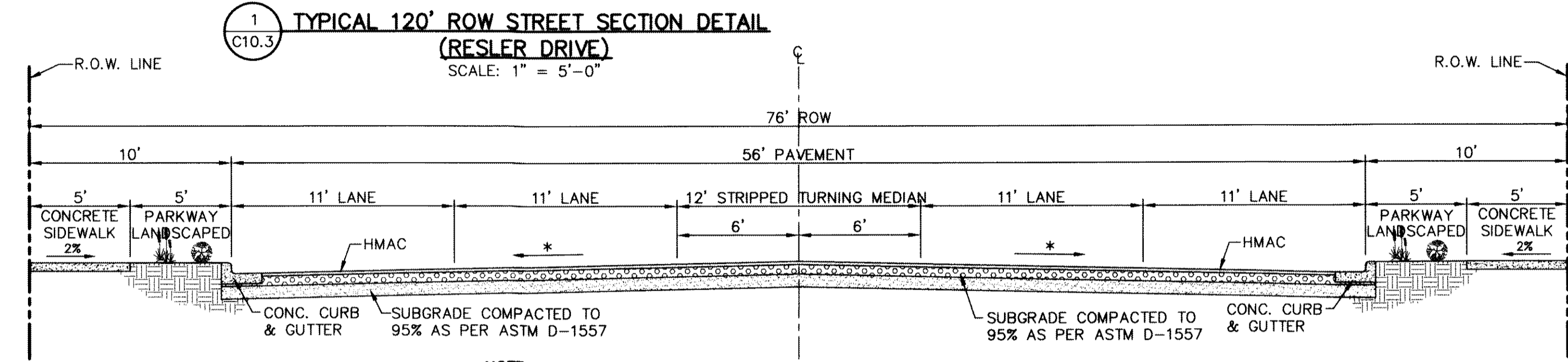
* 12" SPACE BETWEEN FENCE EDGE AND GROUND



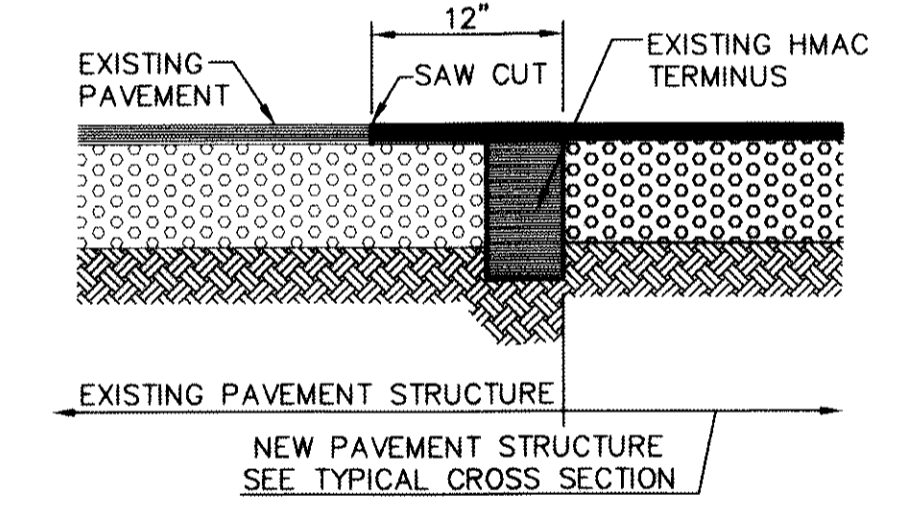
- KEY NOTES**
- 3" x 3" x 3/16" SQUARE STEEL TUBING
 - 2" x 1" x 14 GA. RECTANGULAR STEEL TUBING
 - 1 1/2" x 1/2" x 16 GA. RECTANGULAR STEEL TUBING
 - BOLT HOOK AND STRAP HINGE
 - FLAT TOP POLYVINYL CAP (TYP.)
 - 2" x 1" x 10 GA. RECTANGULAR STEEL TUBING
 - 1" x 1" x 5" DEEP 3,000 PSI CONCRETE POST FOOTING
 - 5" x 5" x 3/8" SQUARE STEEL SLEEVE W/7" x 7" x 3/8" BASE PLATE



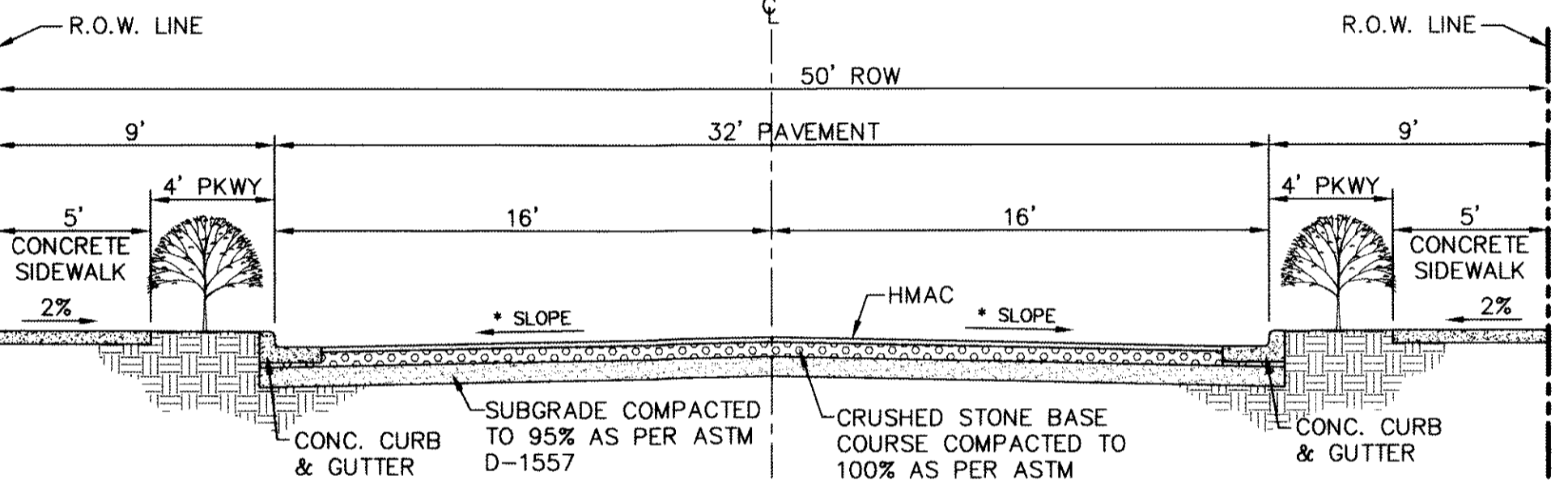
2 TERMINUS OF STREET
 SCALE: 1" = 1'-0"



- NOTE:**
- (*) STREET TRANSVERSE SLOPE AS SHOWN IN PLANS.
 - SIDEWALK WIDTH IS REQUIRED TO COMPLY WITH ADA/TAS REGULATIONS.
 - STREET IMPROVEMENTS 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.
 - SHALL COMPLY WITH THE CURRENT MUTCD MANUAL AND CITY OF EL PASO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND REGULATIONS.
 - ON LANDSCAPED PARKWAYS AND LANDSCAPED MEDIANS, REFER TO LANDSCAPED PLANS FOR ADDITIONAL INFORMATION ON LANDSCAPING DESIGN & IRRIGATION DESIGN.

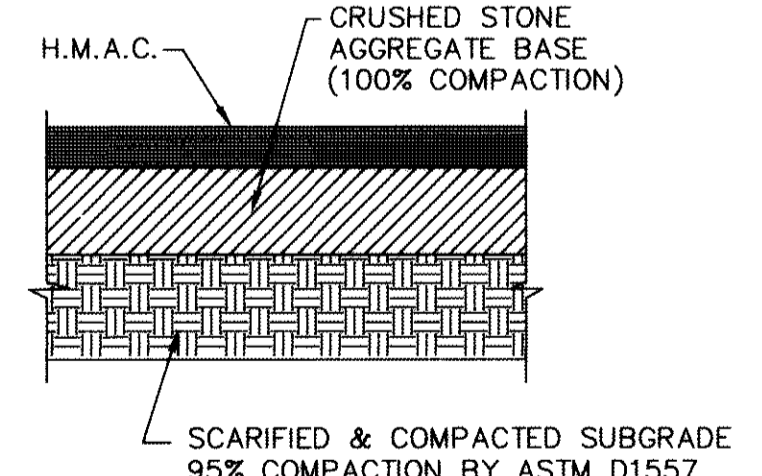


6 TYPICAL PAVEMENT JOINT SECTION
 SCALE: 1" = 1'-0"



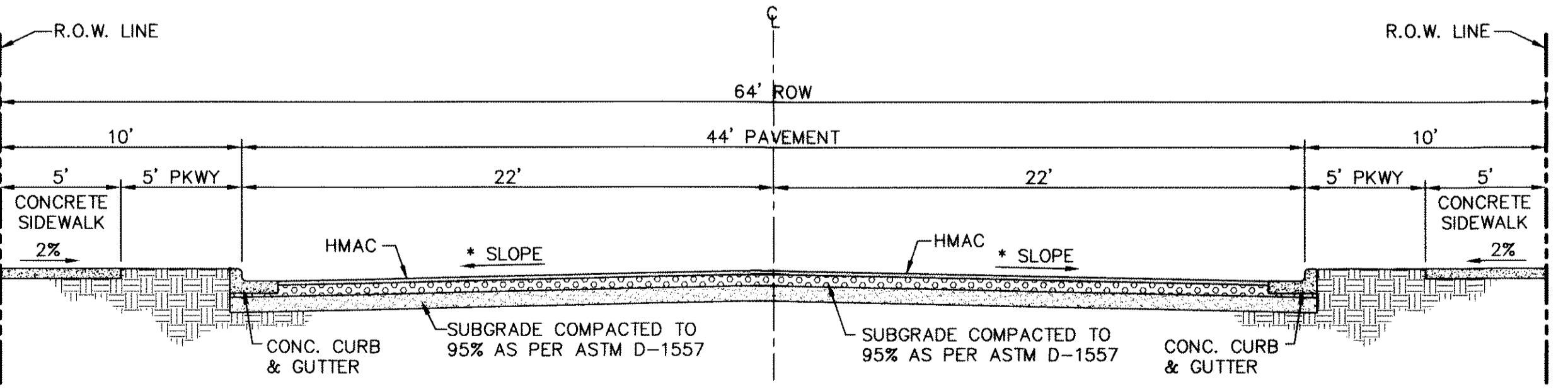
- NOTE:**
- (*) STREET TRANSVERSE SLOPE AS SHOWN IN PLANS.
 - SIDEWALK WIDTH IS REQUIRED TO COMPLY WITH ADA/TAS REGULATIONS.
 - STREET IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF EL PASO PAVING CONSTRUCTION DETAILS AND STANDARD SPECIFICATIONS: CBR @ EVERY 500' RESULTS TO BE SUBMITTED TO THE CITY OF EL PASO FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF PAVEMENT.
 - DEVELOPER/BUILDER HAS AGREED TO INSTALL ONE (1) TREE IN THE PARKWAY PER RESIDENTIAL LOT TO BE INSTALLED AT TIME OF CERTIFICATE OF OCCUPANCY.

4 TYPICAL 50' ROW STREET SECTION DETAIL
 SCALE: 1" = 5'-0"



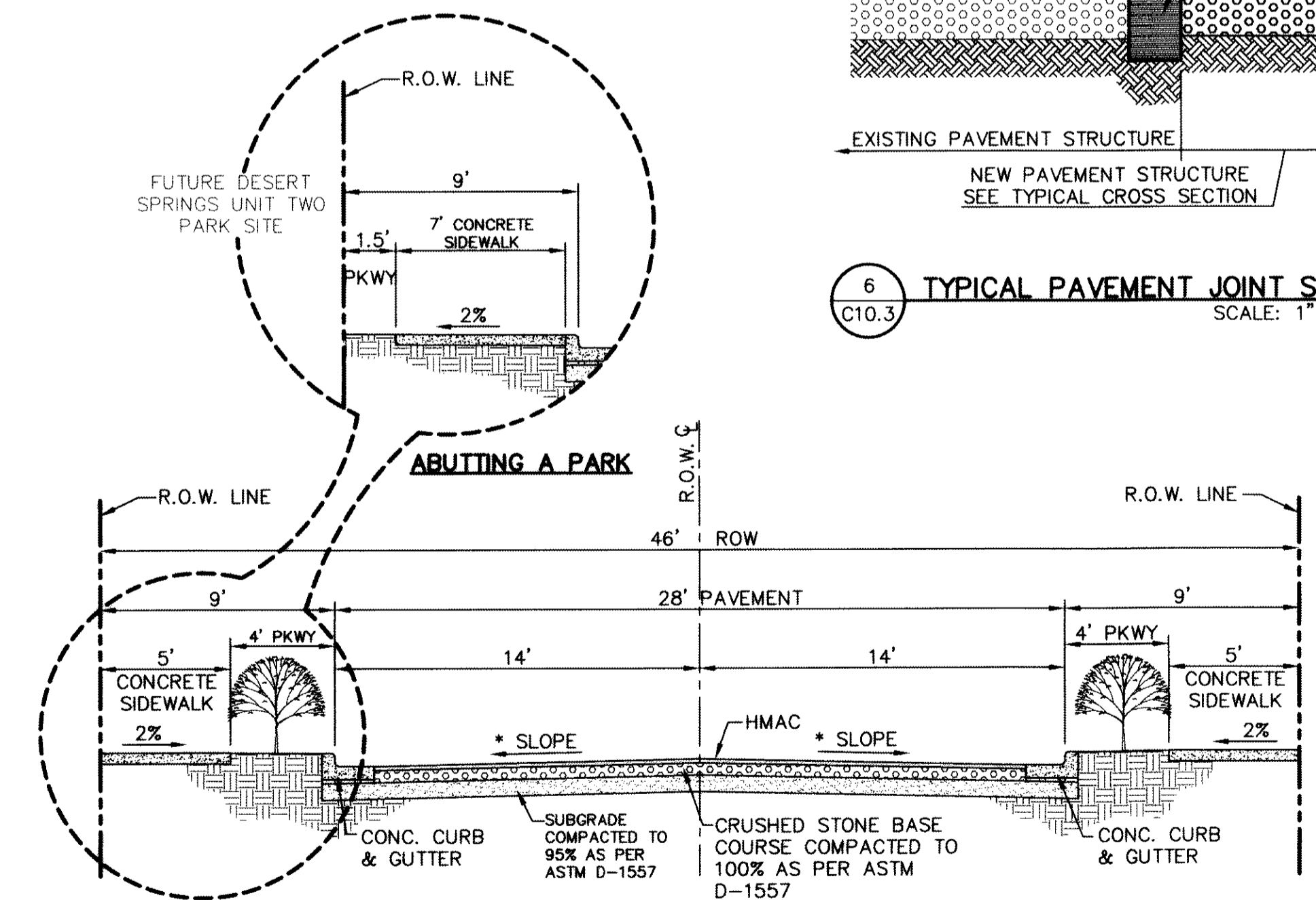
- PAVEMENT SECTION NOTES:**
- SUBGRADE TO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS PER ASTM D-1557.
 - MINIMUM PAVEMENT DESIGN DETAILS ARE SHOWN, ACTUAL PAVEMENT DESIGN WILL BE DETERMINED BY CBR.
 - STREET IMPROVEMENTS (FLEXIBLE PAVEMENT DESIGN STRUCTURE) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT 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.

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



- NOTE:**
- (*) STREET TRANSVERSE SLOPE AS SHOWN IN PLANS.
 - SIDEWALK WIDTH IS REQUIRED TO COMPLY WITH ADA/TAS REGULATIONS.
 - STREET IMPROVEMENTS 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.
 - SHALL COMPLY WITH THE CURRENT MUTCD MANUAL AND CITY OF EL PASO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND REGULATIONS.

7 TYPICAL 64' ROW STREET SECTION DETAIL (BLUFF CREEK STREET)
 SCALE: 1" = 5'-0"

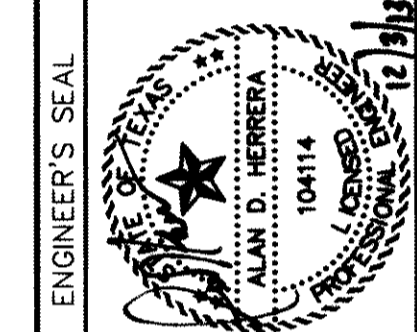


- NOTE:**
- (*) STREET TRANSVERSE SLOPE AS SHOWN IN PLANS.
 - SIDEWALK WIDTH IS REQUIRED TO COMPLY WITH ADA/TAS REGULATIONS.
 - STREET IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF EL PASO PAVING CONSTRUCTION DETAILS AND STANDARD SPECIFICATIONS: CBR @ EVERY 500' RESULTS TO BE SUBMITTED TO THE CITY OF EL PASO FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF PAVEMENT.
 - DEVELOPER/BUILDER HAS AGREED TO INSTALL ONE (1) TREE IN THE PARKWAY PER RESIDENTIAL LOT TO BE INSTALLED AT TIME OF CERTIFICATE OF OCCUPANCY.

9 TYPICAL 46' ROW STREET SECTION DETAIL (DEWBERRY DRIVE & A PORTION OF RED CEDAR DRIVE)
 SCALE: 1" = 5'-0"

REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHNO 1980"
 ELEVATION: 3025.83 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 (NAD 83 DATUM)
 3945.78 (NAD 83 DATUM)
 TIE TO THE PROJECT BENCHMARK IS NAD83/55'E, 3,026.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLE D. BUNDY SURVEY NO. 239
 DATE: _____ REVISIONS: _____ BY: _____

engineers • architects • planners
 OEA
 Casper Center @ Transmountain
 10414
 10414
 10414
 TEXAS FIRM REGISTRATION NO. 0584

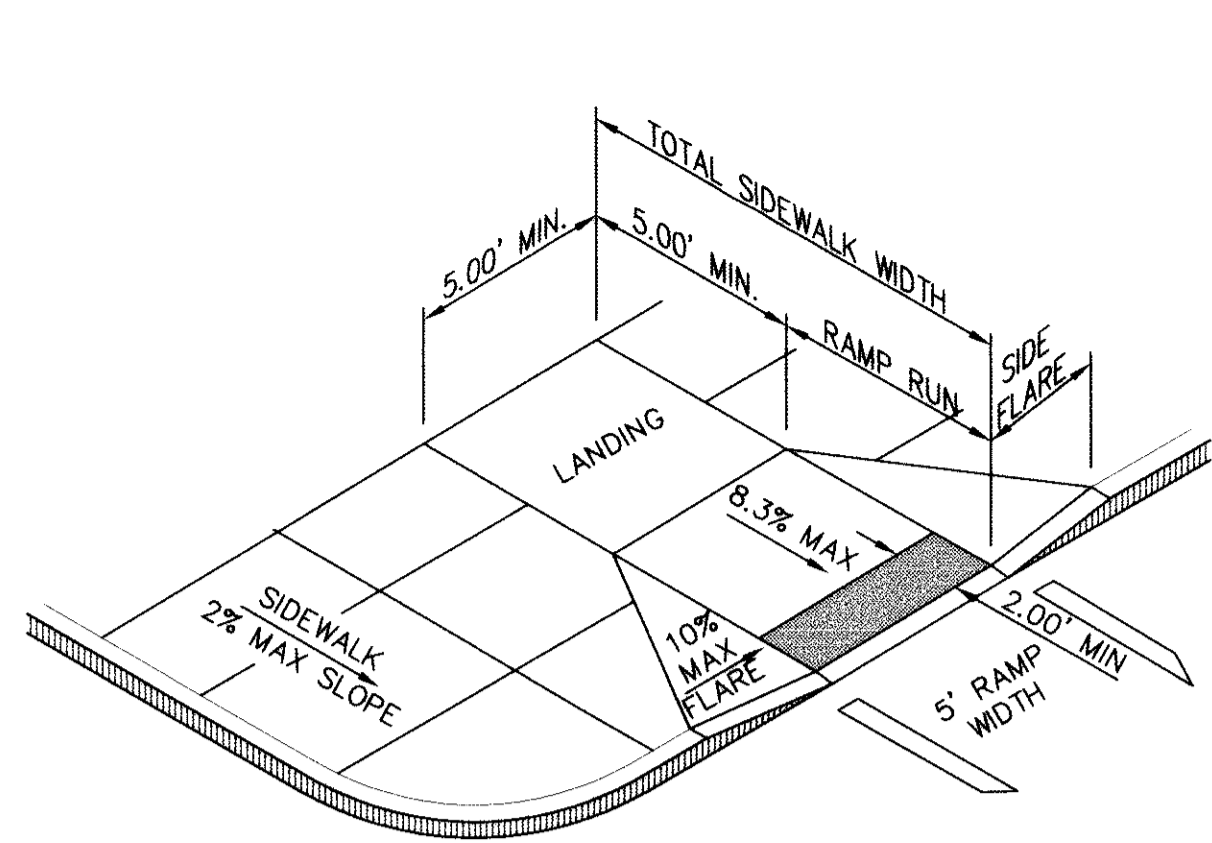


SCALE: AS SHOWN
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APPROV. BY: A.H.
 JOB NO. 2050-013-LD

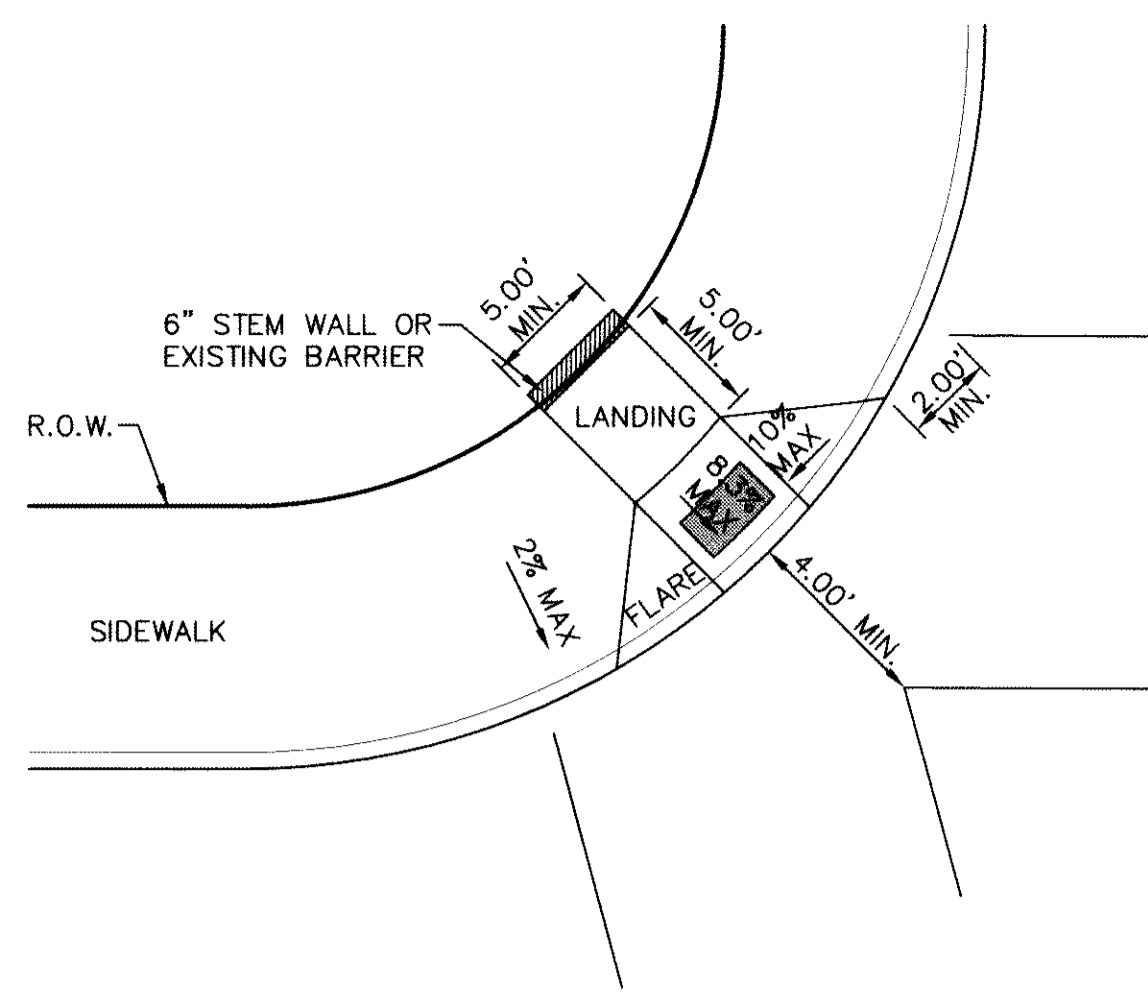
PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 STANDARD
 DETAILS
 (SHEET 3 OF 5)
 SHEET NO.

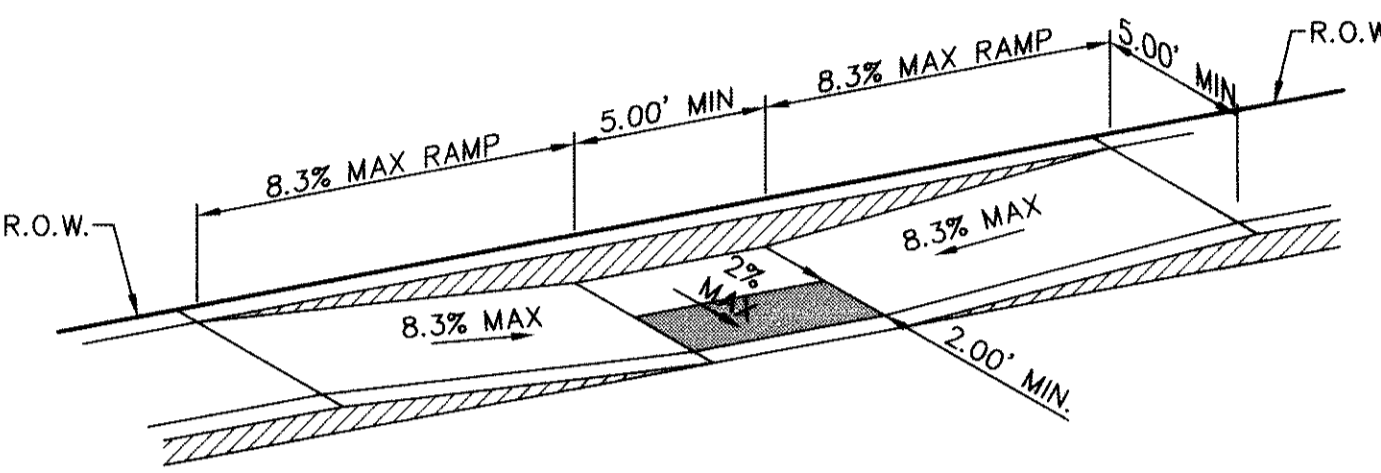
C10.3



1 PERPENDICULAR CURB RAMP (TYPE I)
SCALE: N.T.S.

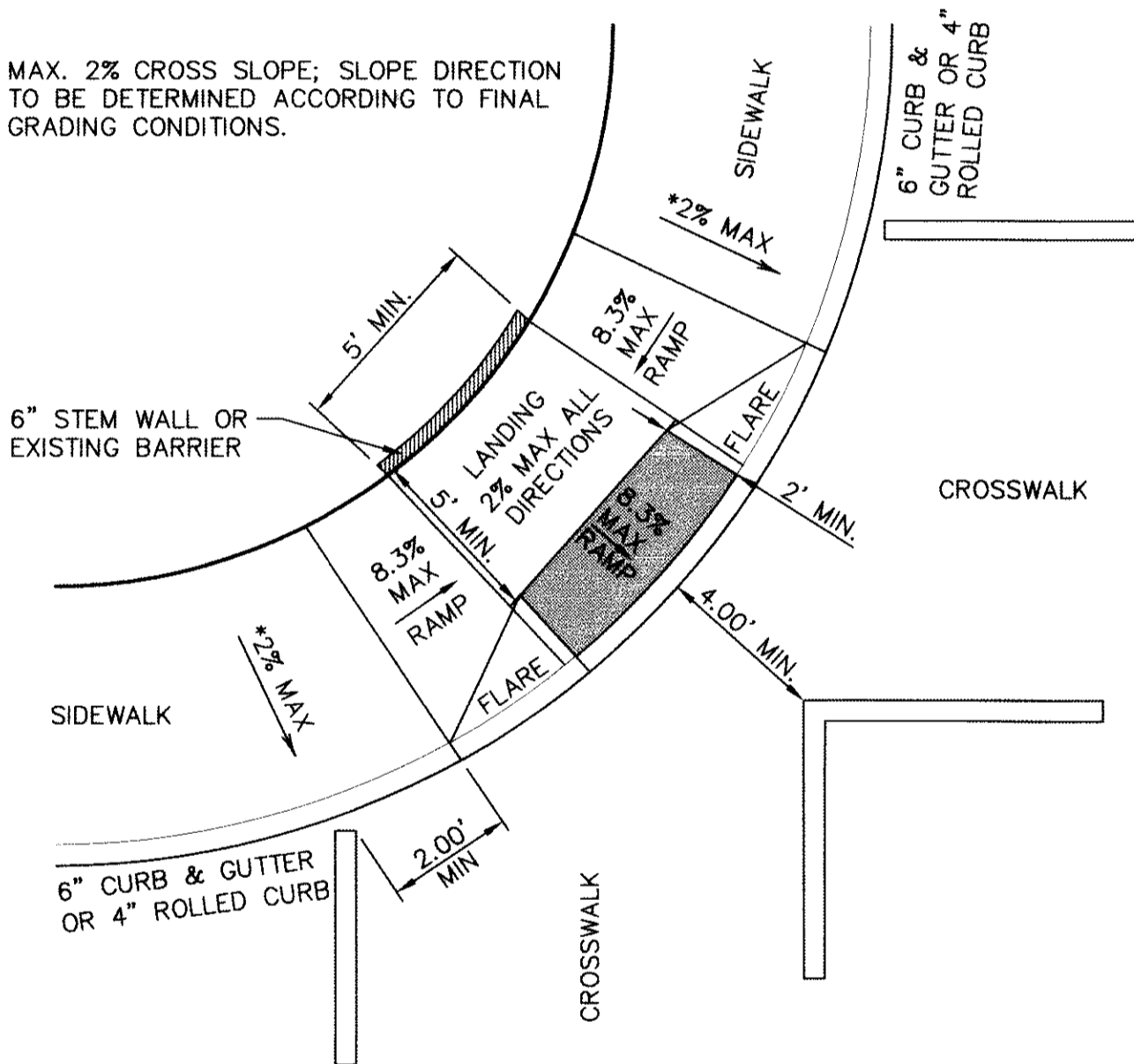


5 DIAGONAL CURB RAMP (FLARED SIDES) (TYPE V)
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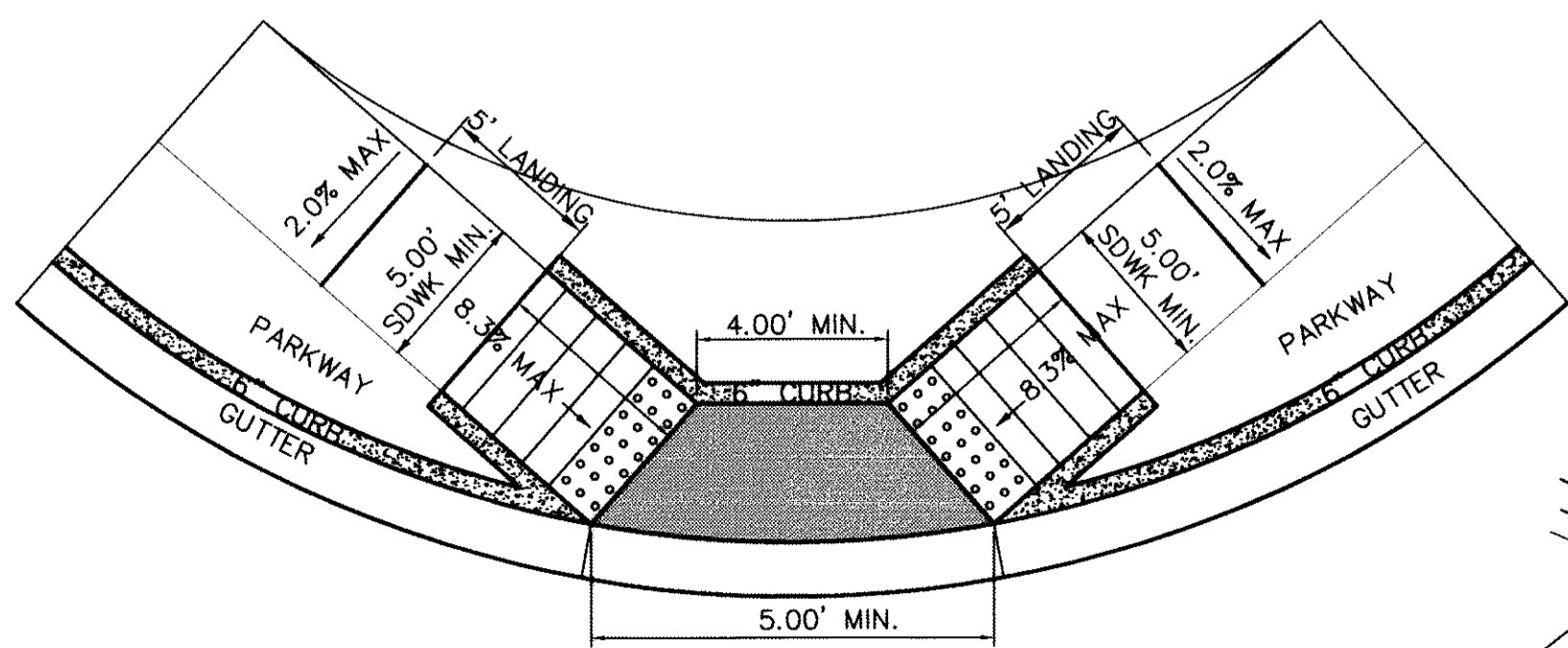


2 PARALLEL CURB RAMP (TYPE II)
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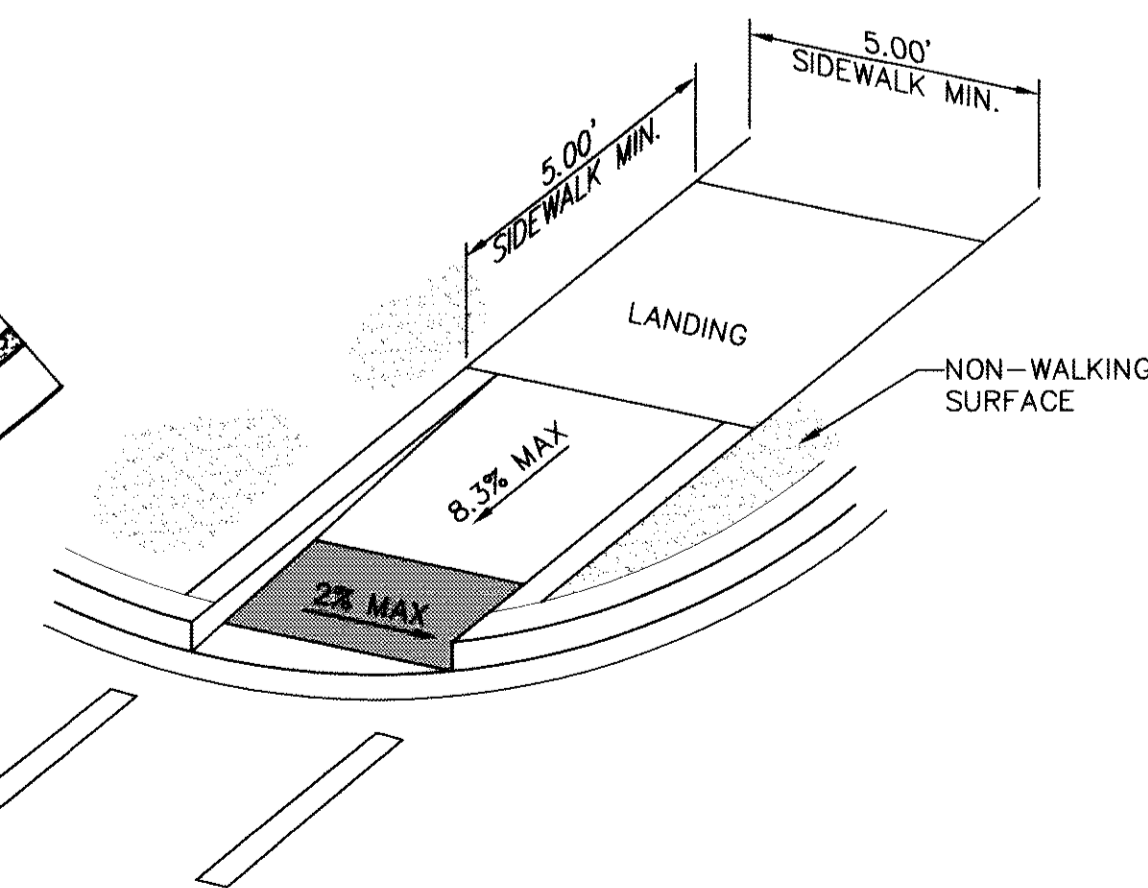
* NOTE: MAX. 2% CROSS SLOPE; SLOPE DIRECTION TO BE DETERMINED ACCORDING TO FINAL GRADING CONDITIONS.



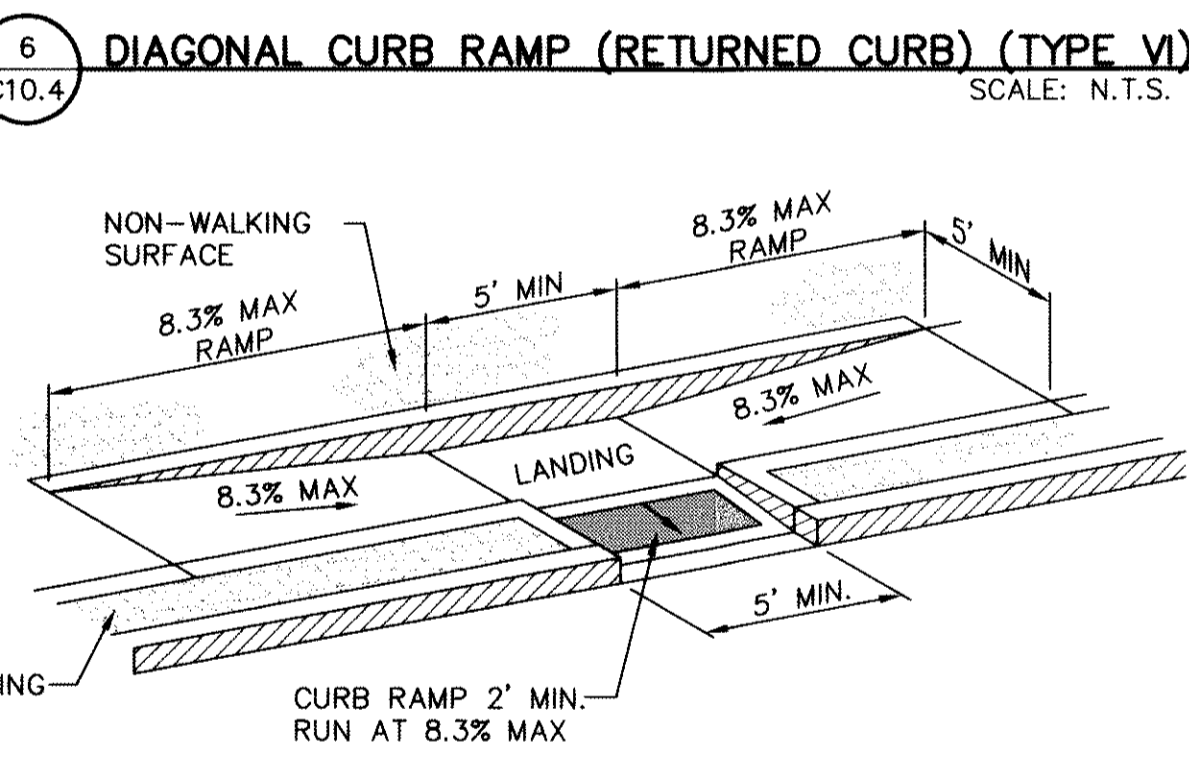
3 DIAGONAL COMBINATION CURB RAMP (TYPE III)
SCALE: N.T.S.



4 DIRECTIONAL RAMP @ INTERSECTION
SCALE: N.T.S.

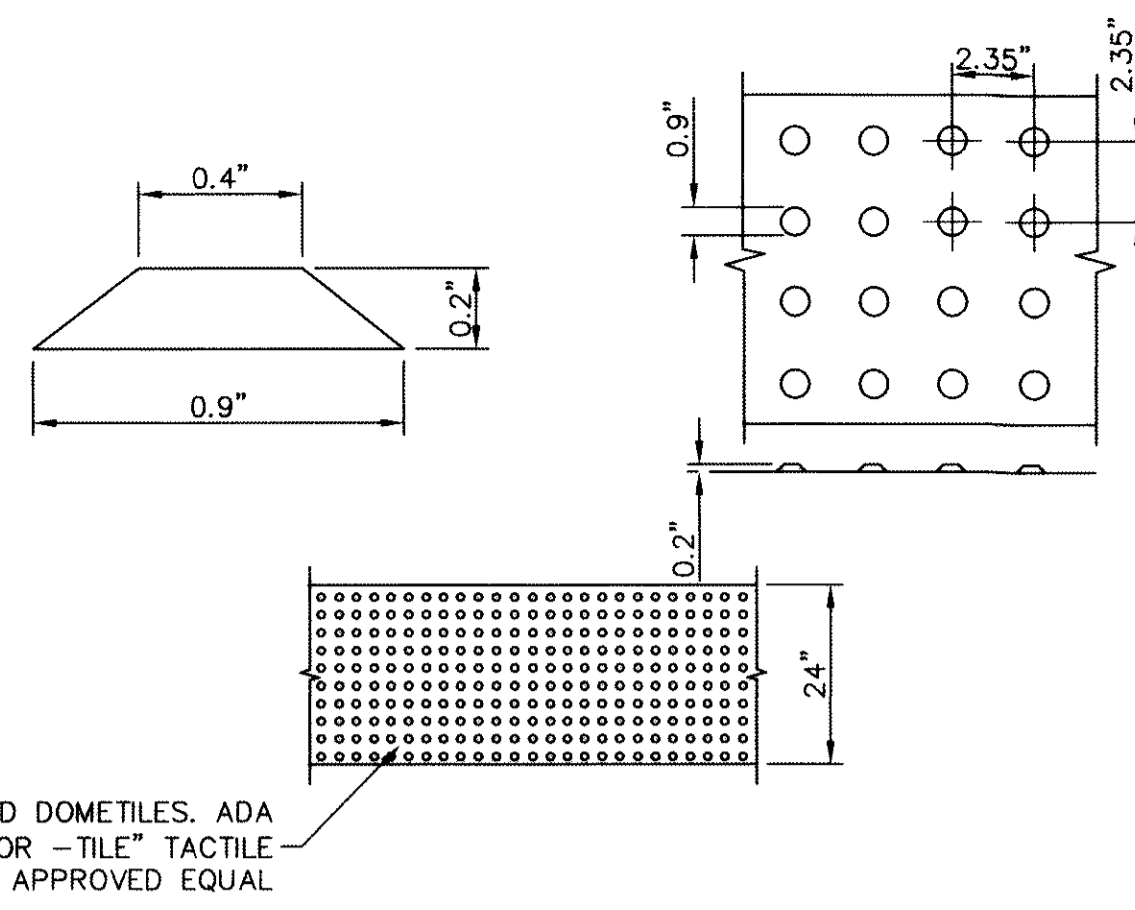


8 DIRECTIONAL RAMP WITHIN RADIUS (TYPE IV)
SCALE: N.T.S.



6 DIAGONAL CURB RAMP (RETURNED CURB) (TYPE VI)
SCALE: N.T.S.

7 COMBINATION CURB RAMPS (TYPE VII)
SCALE: N.T.S.



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

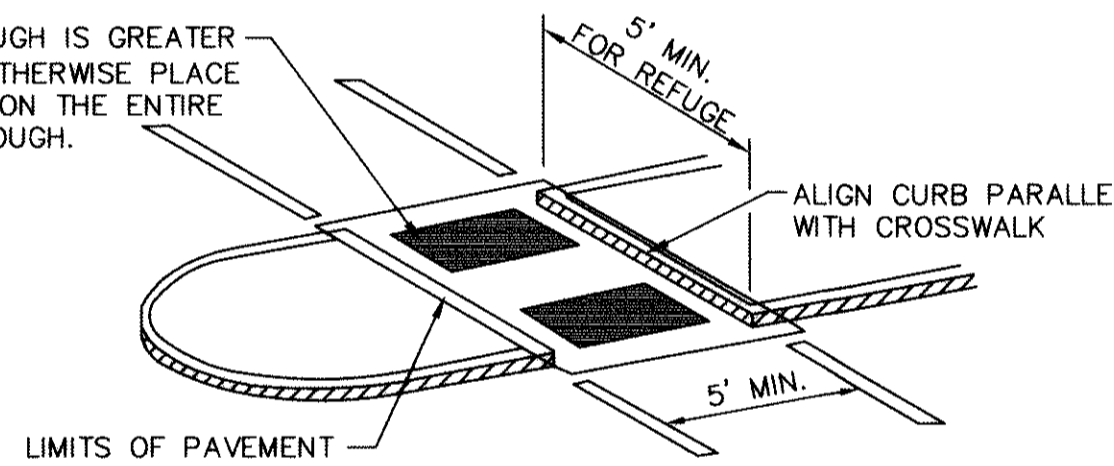
DOMES SIZE AND SPACING. TRUNCATED DOMES SHALL HAVE A DIAMETER OF NOMINAL 0.9 INCHES (23 mm) AT THE BOTTOM, A DIAMETER OF 0.4 INCH (10 mm) AT THE TOP, A HEIGHT OF NOMINAL 0.2 INCHES (5 mm), AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES (60 mm) MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT.

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.

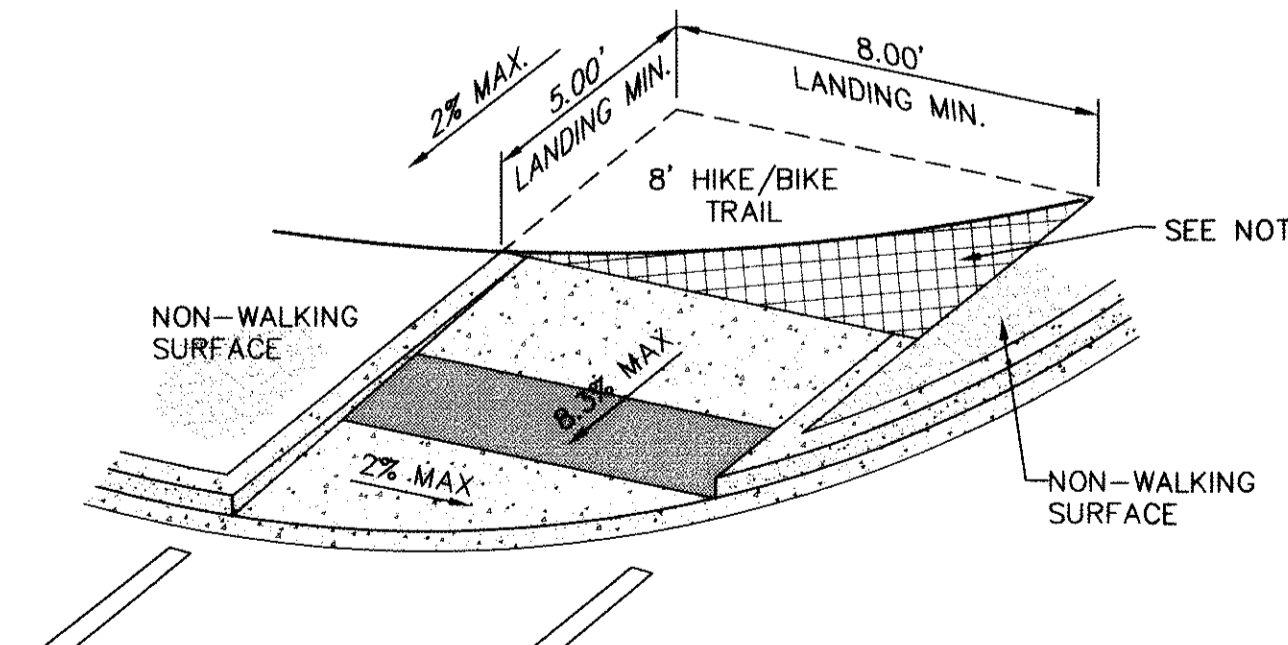
CONTRAST. THERE SHALL BE A MINIMUM OF 70 PERCENT CONTRAST IN LIGHT REFLECTANCE BETWEEN THE DETECTABLE WARNING AND AN ADJOINING SURFACE, OR THE DETECTABLE WARNING SHALL BE "RED BRICK" COLOR, UNLESS OTHERWISE DIRECTED BY THE OWNER. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE. CONTRAST 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.

2' STRIP IF CUT THROUGH IS GREATER THAN 4' IN LENGTH. OTHERWISE PLACE DETECTABLE WARNING ON THE ENTIRE SURFACE OF CUT THROUGH.

9 TRUNCATED DOME
SCALE: N.T.S.



10 CURB RAMPS AT MEDIAN ISLANDS
SCALE: N.T.S.



NOTES:
EXTEND AND PAVE TRAIL TO MATCH ELEVATIONS OF RAMP. AREA IS TO HAVE A MAXIMUM OF 2% SLOPE AS A LANDING.

11 DIRECTIONAL RAMP WITHIN RADIUS FOR HIKE/BIKE TRAIL
SCALE: N.T.S.

LEGEND
DETECTABLE WARNING SURFACE

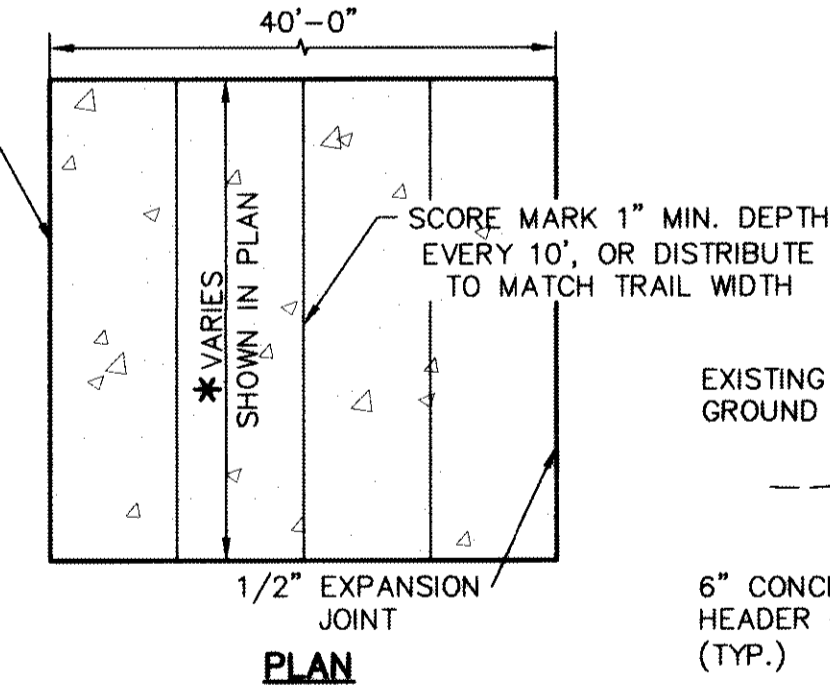
GENERAL NOTES:

- IMPROVEMENTS SHALL COMPLY WITH AMERICANS WITH DISABILITY ACT (ADA) AND TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR) STANDARDS.
- 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 FOUR (4') FEET. WHERE A FIVE (5') FEET SIDEWALK CAN NOT BE PROVIDED DUE TO SITE CONSTRAINTS, A MINIMUM THREE (3') FEET SIDEWALK WITH 5'x5' PASSING SPACE AREAS ARE REQUIRED TO BE LOCATED AT REASONABLE INTERVALS NOT TO EXCEED TWO-HUNDRED (200') FEET.
- LANDINGS SHALL BE 5'x5' MINIMUM WITH A MAXIMUM TWO (2%) PERCENT SLOPE IN ANY DIRECTION.
- MANEUVERING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4'x4' 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 WITH A MAXIMUM 10(H):1(V) SLOPE. IF THE LANDING DEPTH IS LESS THAN FOUR (4') FEET, THEN THE SLOPE OF THE FLARED SIDE SHALL NOT EXCEED 12(H):1(V) SLOPE.
- 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.
- ACCESSIBLE ROUTES WITH A RUNNING SLOPE GREATER THAN FIVE (5%) PERCENT IS A RAMP AND SHALL COMPLY WITH TDLR 4.8 - RAMPS. MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND RAMP SURFACES IS TWO (2%) PERCENT.
- 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 TDLR.
- ALL ADA RAMPS TO BE BUILT BY DEVELOPER.

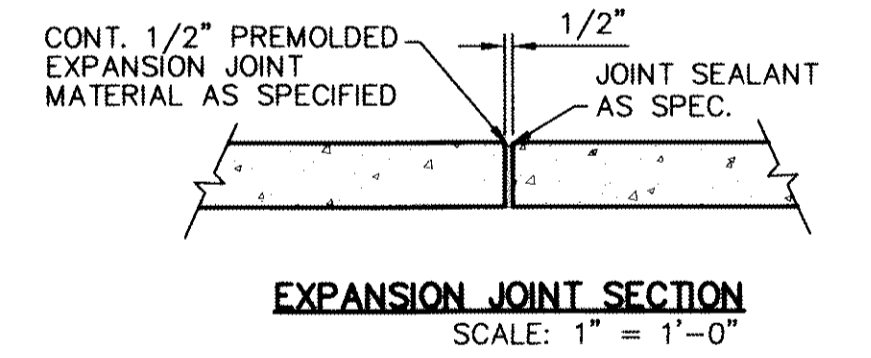
RECORD DRAWINGS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

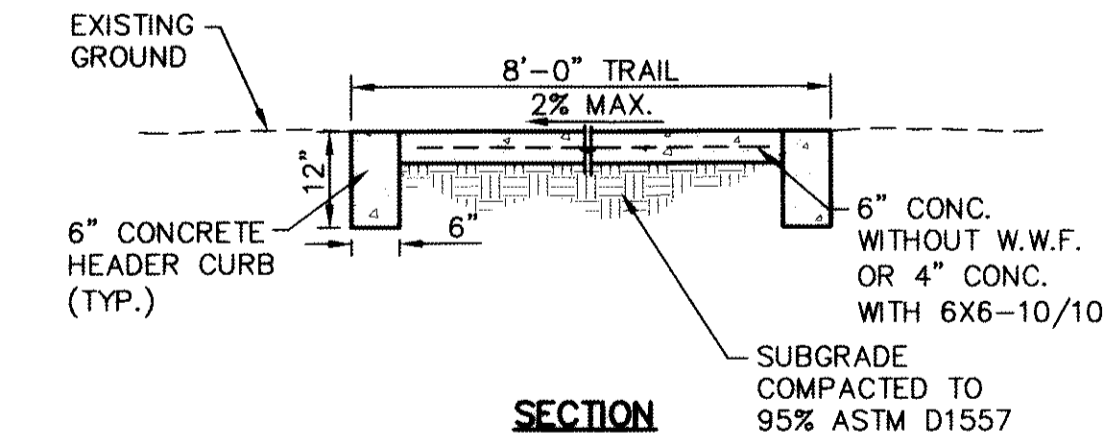
10/24/2013



PLAN



EXPANSION JOINT SECTION
SCALE: 1" = 1'-0"



SECTION

HIKE & BIKE NOTES:

- CONCRETE SHALL BE 3,000 P.S.I. AT TWENTY-EIGHT (28) DAYS.
- DUMMY JOINTS REQUIRED AT EIGHT (8') FEET ON CENTER.
- EXPANSION JOINTS SHALL BE AT FORTY (40') FEET ON CENTER MAXIMUM. USE 1/2" PREMOLDED BITUMINOUS EXPANSION JOINTS (ASHTO M-33).
- EXPANSION JOINT FILLER SHALL BE PLACED WHEREVER SIDEWALK ABUTS ROCK OR MASONRY STRUCTURES SUCH AS CURBS OR BUILDINGS.
- SUBGRADE TO BE COMPACTED TO NINETY-FIVE (95%) PERCENT AS PER ASTM D1557.
- THE HIKE/BIKE TRAIL MUST HAVE A MAXIMUM RUNNING SLOPE OF FIVE (5%) PERCENT AND A MAXIMUM CROSS SLOPE OF TWO (2%) PERCENT.

12 TYPICAL GRADING SECTION-HIKE & BIKE TRAIL
SCALE: N.T.S.

REFERENCES - BENCHMARKS
FOUND: U.G.S. BENCHMARK NUMBER "50105 1889"
ELEVATION: 3946.11 (NAVD 88 DATUM)
SHOWN: 50105 (CITY OF EL PASO VERTICAL DATUM)
TIE TO THE PROJECT BENCHMARK IS 3020.83
FEET FROM A 1/2" REBAR FOUND FOR THE NORTHWEST
CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239
DATE: REVISIONS: BY:

ceagroup
engineers • architects • planners
Casterline Center @ Transmountain
4712 Woodrow Bean, Ste. F, El Paso, TX 79904
Office: 915.790.9400
TEXAS ENGINEER REGISTRATION NO. 4664

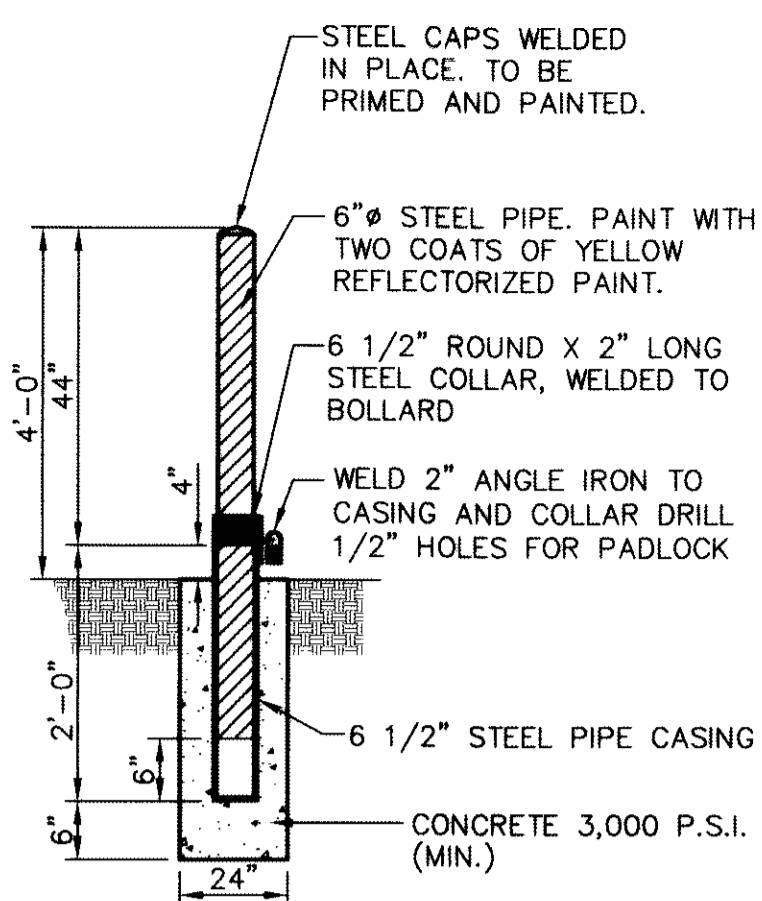


SCALE: AS SHOWN
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: A.H.
JOB No. 2050-013-ID

PROJECT TITLE
DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

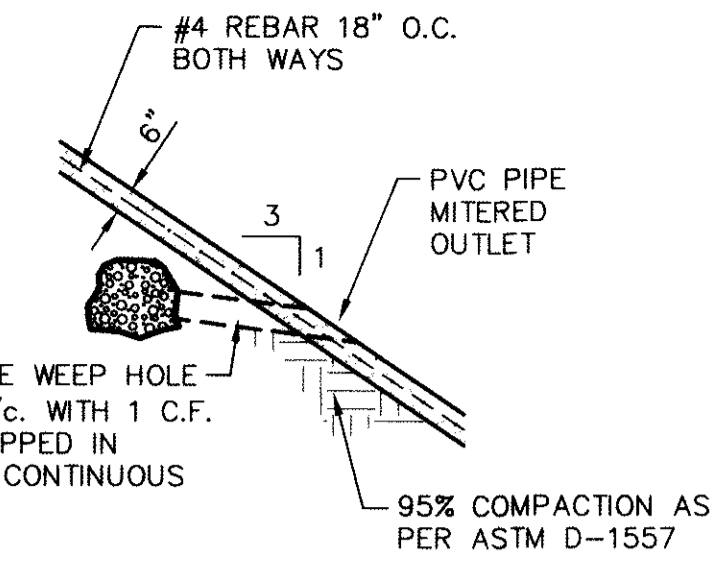
SHEET TITLE
STANDARD
DETAILS
(SHEET 4 OF 5)
SHEET NO.

C10.4



STEEL PIPE SPECIFICATIONS
ASTM A-53 STEEL, SCHEDULE 40, 0.25" THICK (MIN.)

2 TYPICAL REMOVABLE BOLLARD POST EMBEDMENT DETAIL
SCALE: N.T.S.



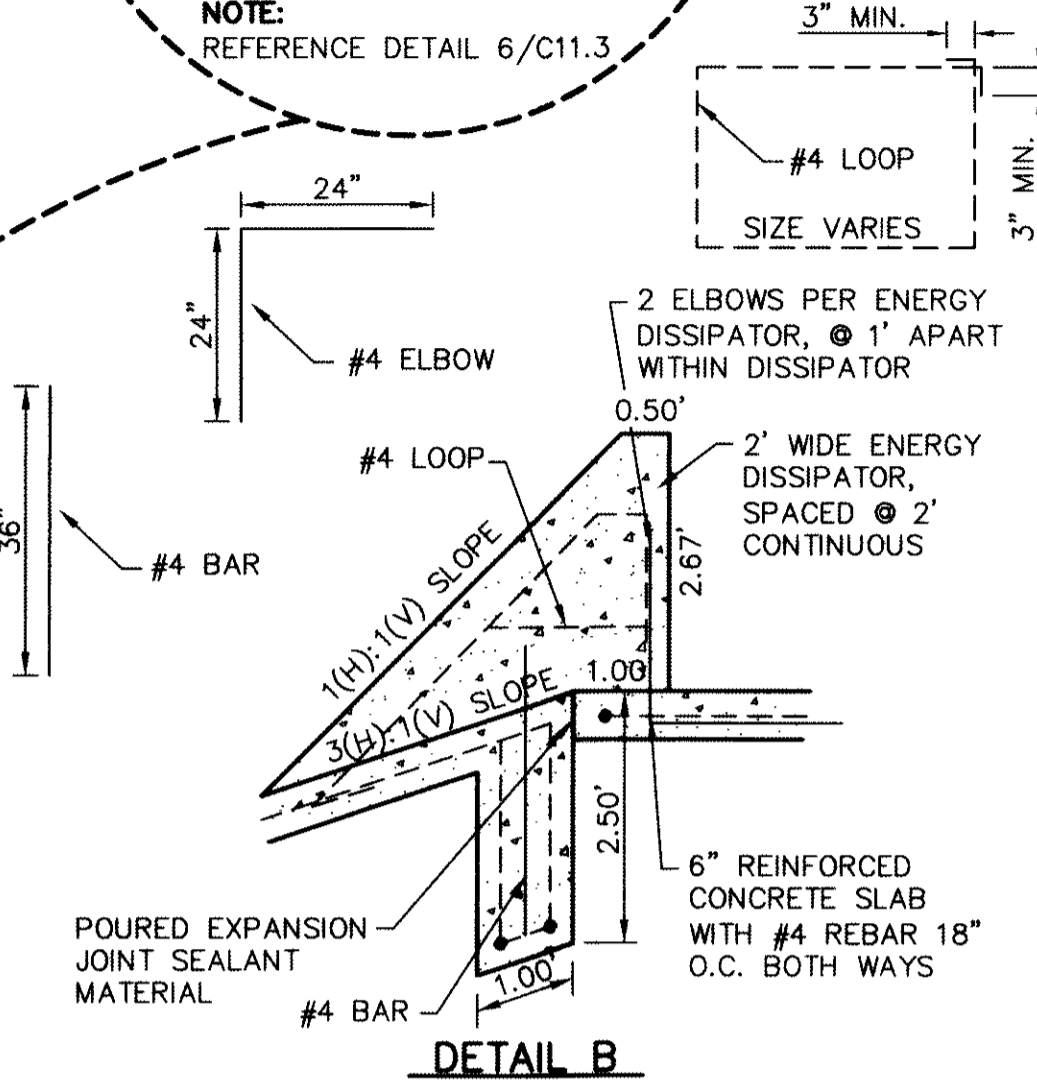
SECTION A

RECORD DRAWINGS
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
10/24/2013

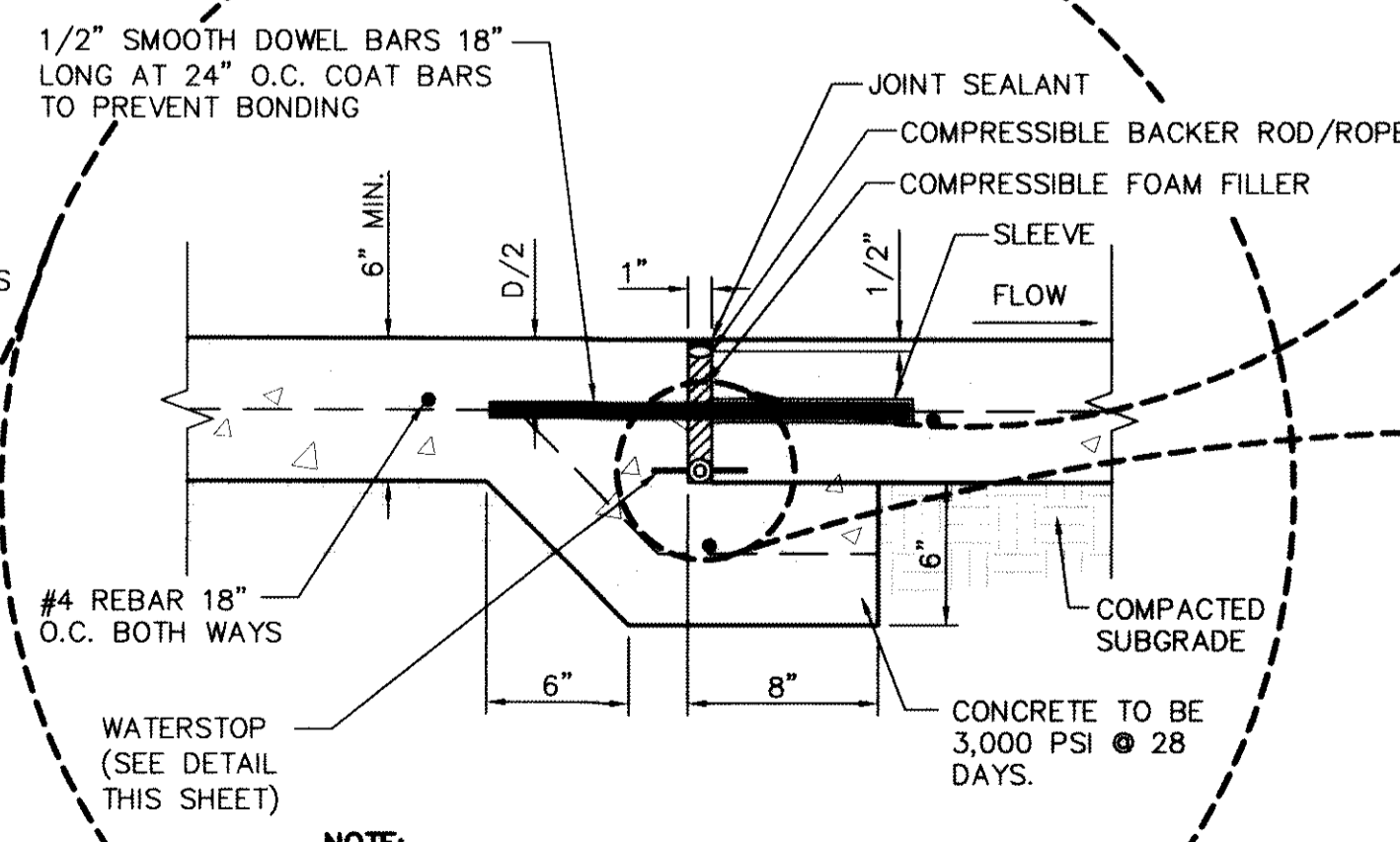
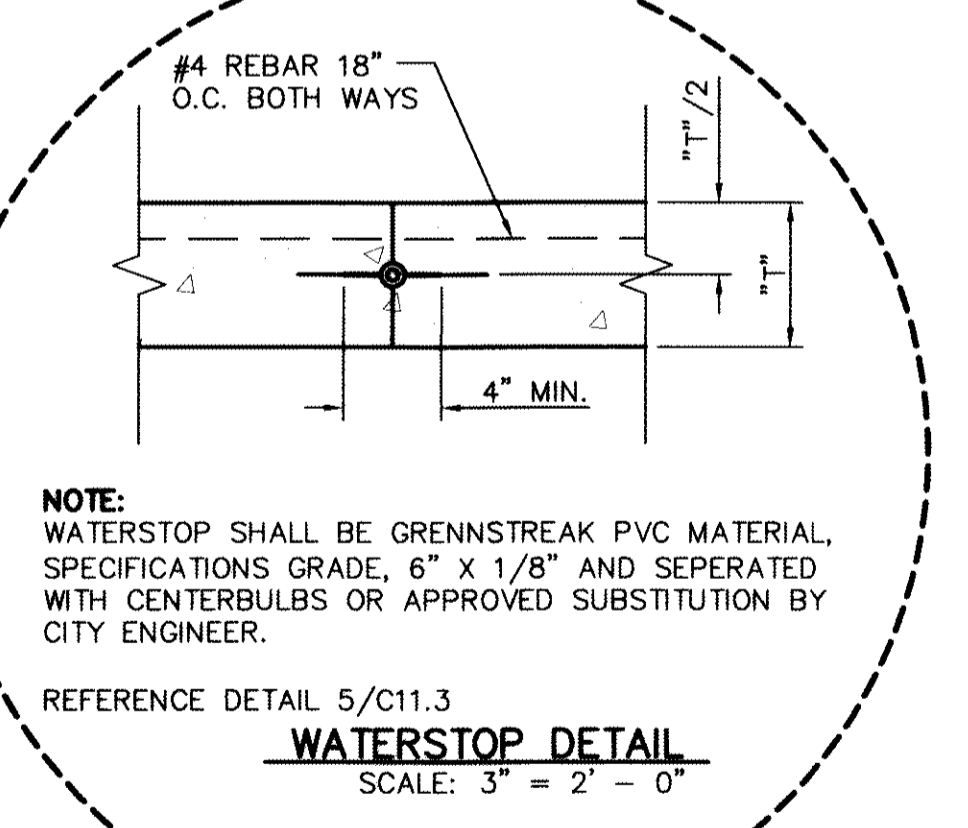
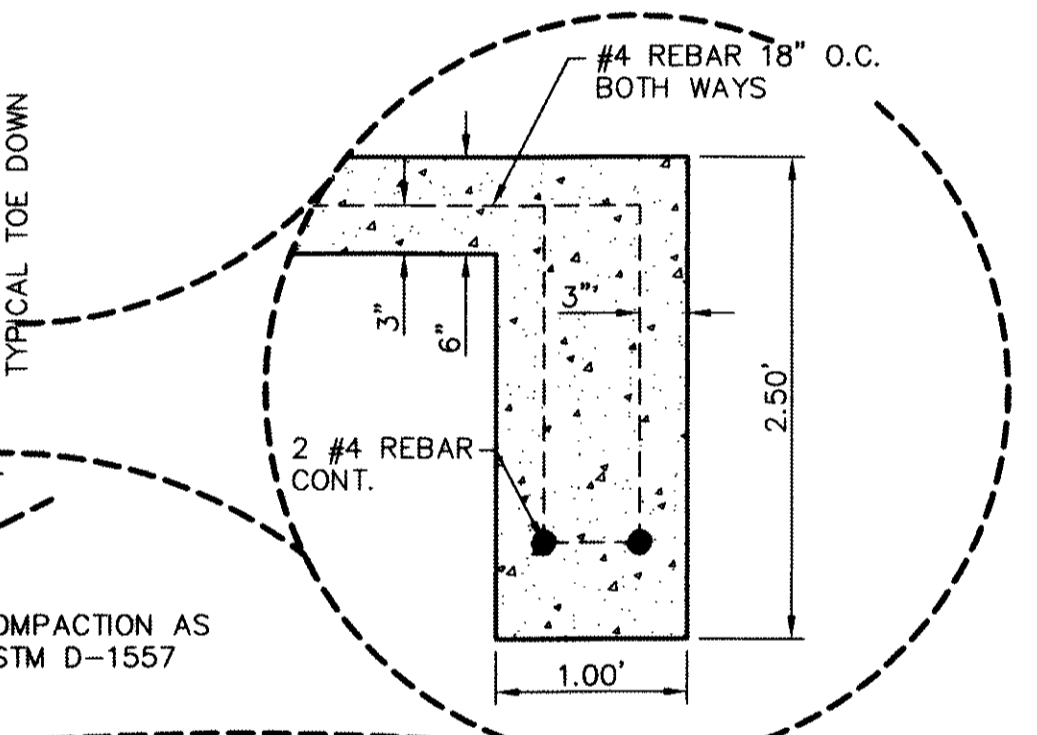
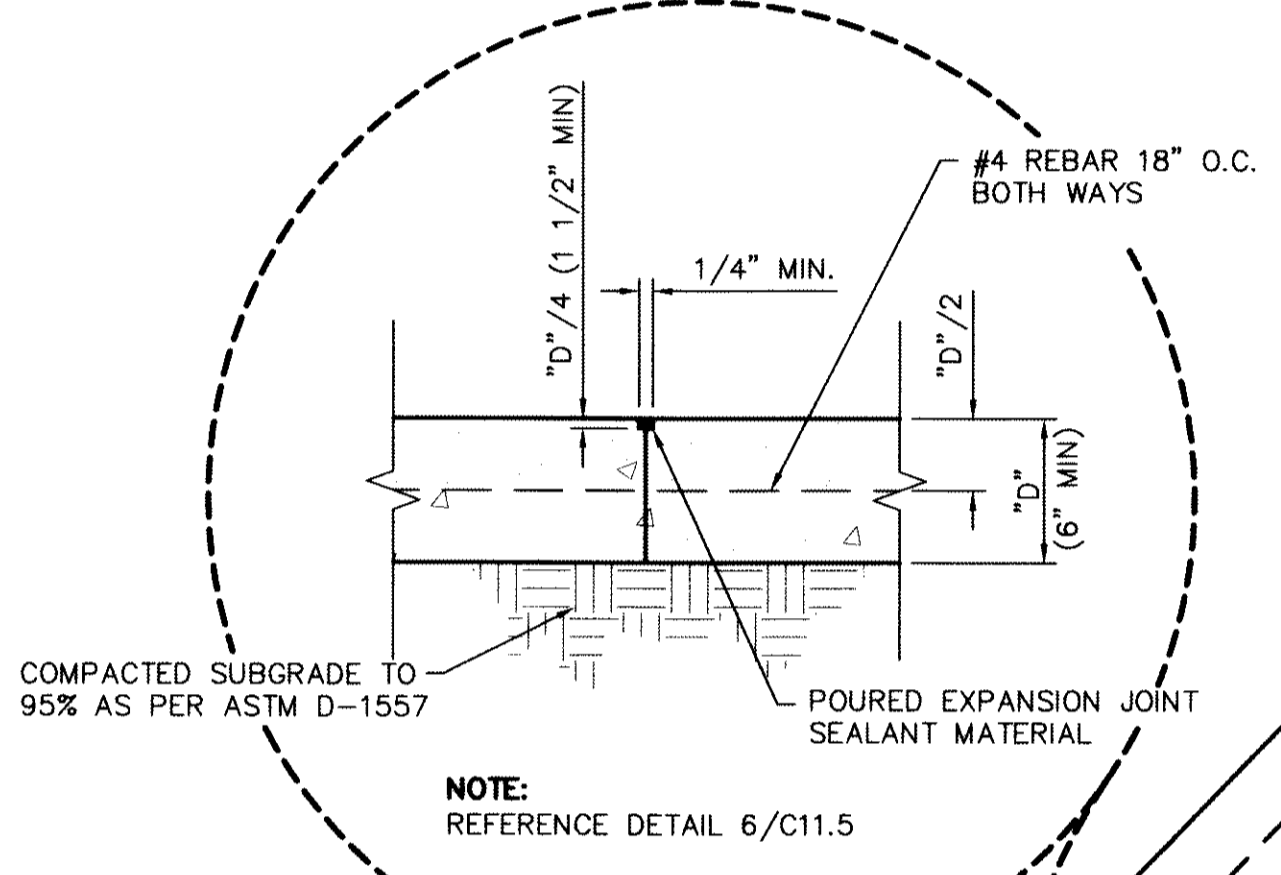
Property of
EL PASO WATER UTILITIES
Public Service Board
STORMWATER POND

No Trespassing
Violators will be prosecuted.
In case of an emergency call:
594-5775

NOTE:
REFERENCE DETAIL 6/C11.3



DETAIL B



SIDEWALK NOTES:

1. CONCRETE SHALL BE 3,000 P.S.I. @ TWENTY-EIGHT (28) DAYS.
2. SUBGRADE TO BE COMPACTED TO NINETY-FIVE (95%) PERCENT AS PER ASTM D1557.
3. CONTRACTION JOINTS ARE REQUIRED AT TWENTY-FIVE (25) FEET ON CENTER MAXIMUM.
4. REINFORCING STEEL SHALL BE ASTM A615 GRADE 40 AND DEFORMED.
5. EXPANSION JOINTS ARE REQUIRED AT ONE HUNDRED (100) FEET ON CENTER MAXIMUM.

1 WROUGHT IRON FENCE TOE DOWN DETAIL
SCALE: N.T.S.

REFERENCES - BENCHMARKS

GROUND U.S.S. SURVEY MARKER BEARER "CORNERS 1987" ELEVATION: 3948.11 (NAVD 88 DATUM)

3948.11 (NAVD 88 DATUM)

3948.11 (NAVD 88 DATUM)

TIE TO THE PROJECT BENCHMARK IS 10020.927E, 3020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLE D. MUNDY SURVEY NO. 239

DATE: _____

REVISIONS

BY _____

cea
engineers • architects • planners
Caster Center @ Transmountain
4712 Rockwood Lane, Suite 100, Ft. Worth, TX 76104
626.915.5445
TX REGISTRATION NO. 4694



SCALE: AS SHOWN

Horizontal: N/A

Vertical: N/A

Contour Interval: N/A

DATE: JUNE 2012

DESIGN BY: A.H.

DRAWN BY: J.M.

CHECKED BY: J.L.A.

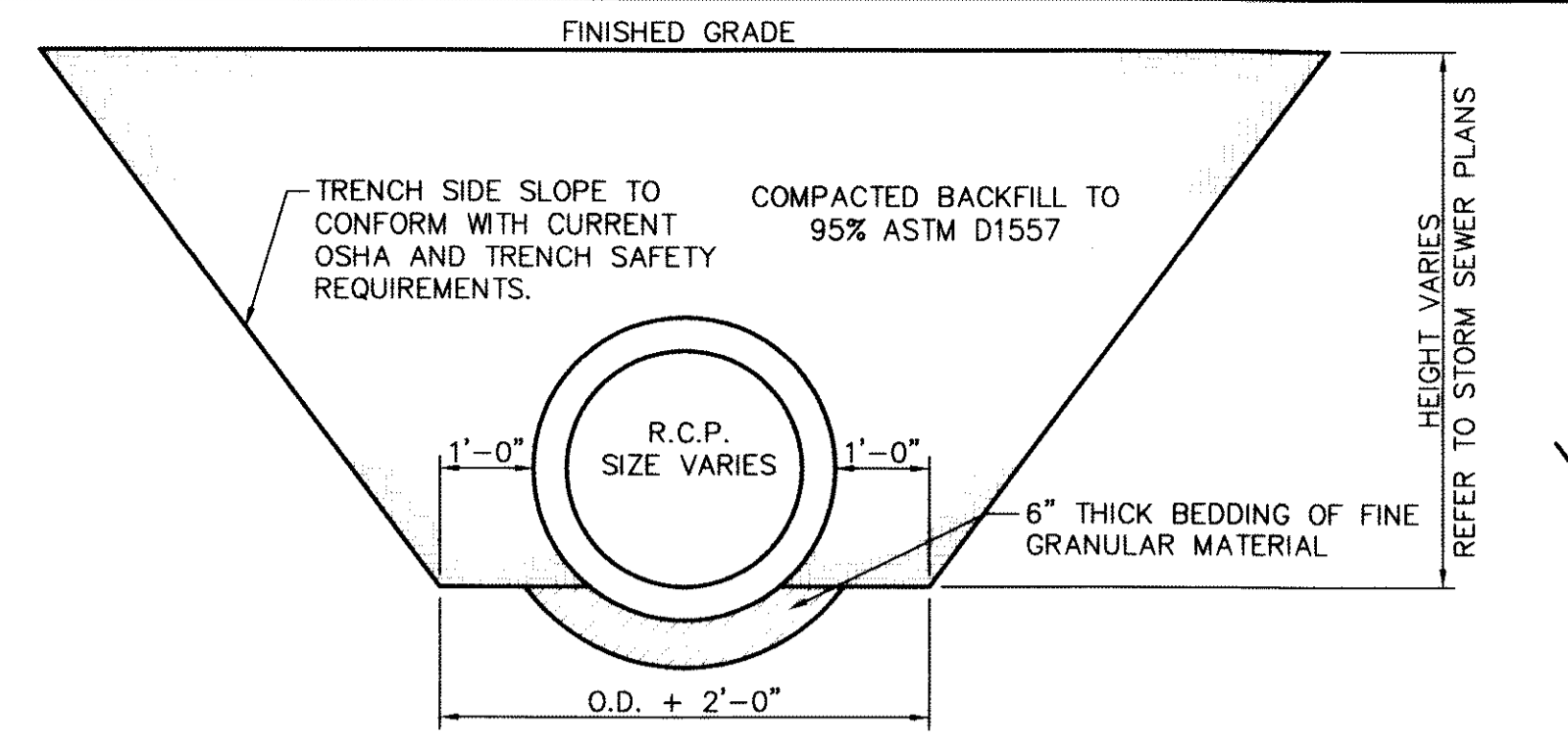
APPROVED BY: A.H.

JOB NO. 2050-013-LD

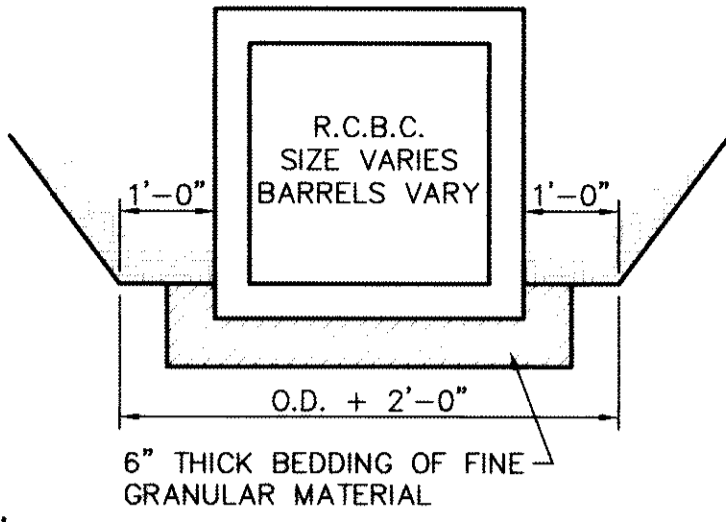
PROJECT TITLE
**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**STANDARD
DETAILS**
(SHEET 5 OF 5)
SHEET NO.

C10.5

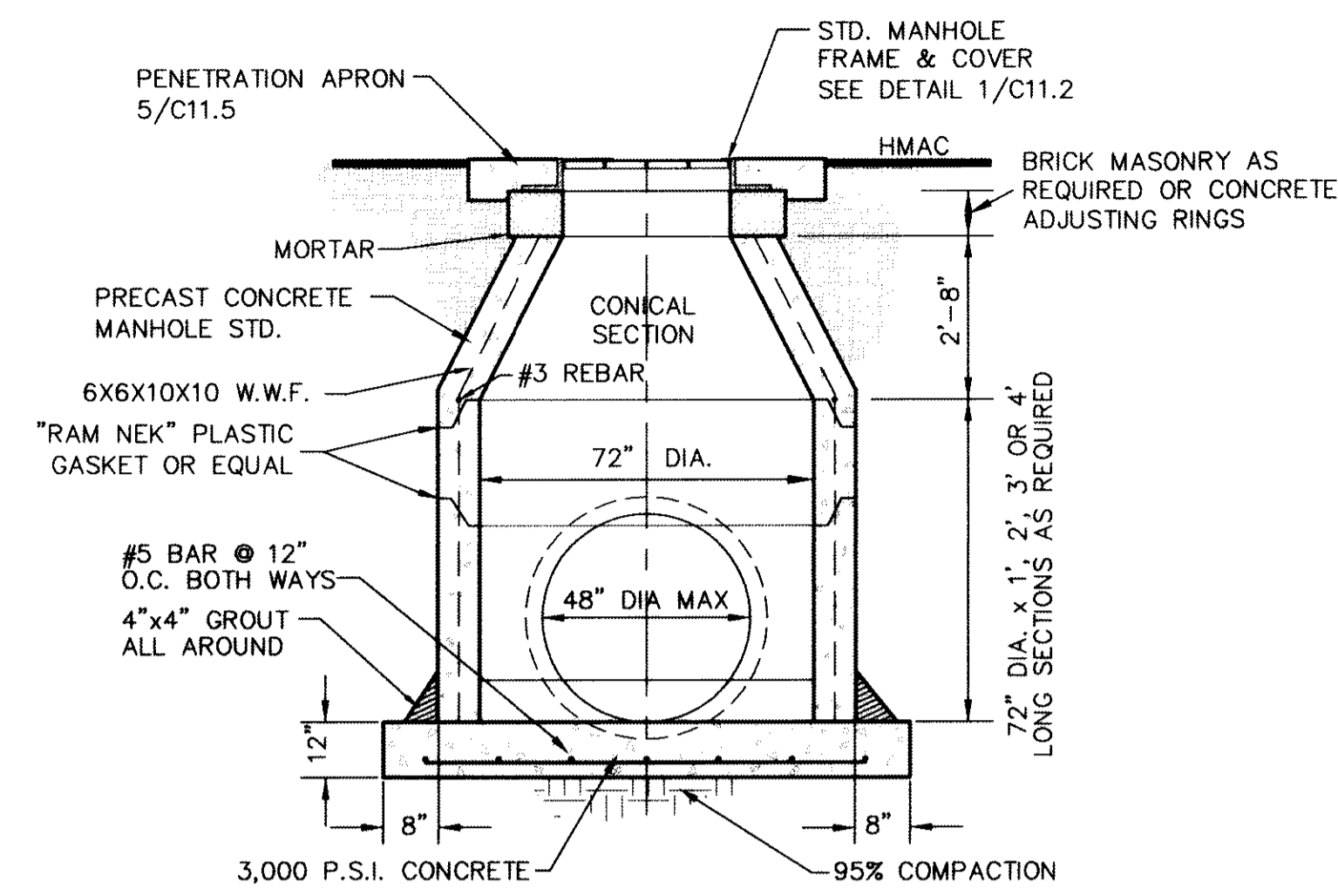


1 STORM SEWER BEDDING DETAIL
SCALE: 1" = 2'-0"



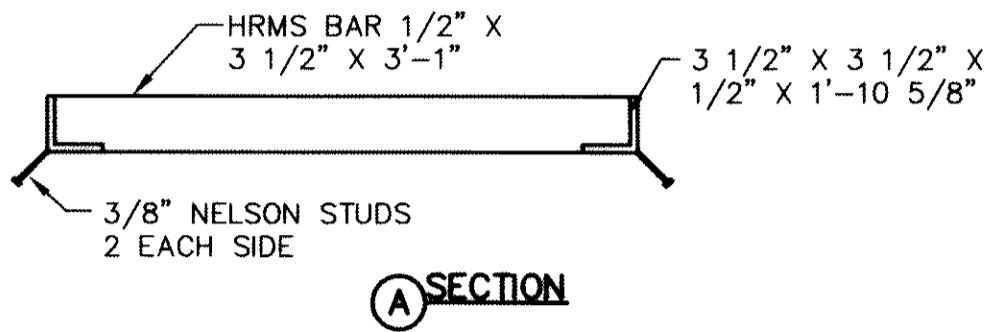
NOTE:
1. ALL CONCRETE SHALL HAVE 3,000 PSI MIN. @ 28 DAYS.
2. NINETY-FIVE (95%) PERCENT COMPACTION AS PER ASTM D-1557 UNDER ALL CONCRETE STRUCTURES.
3. REINFORCED STEEL SHALL BE DEFORMED AND A MINIMUM OF GRADE 40.

2 48\"/>

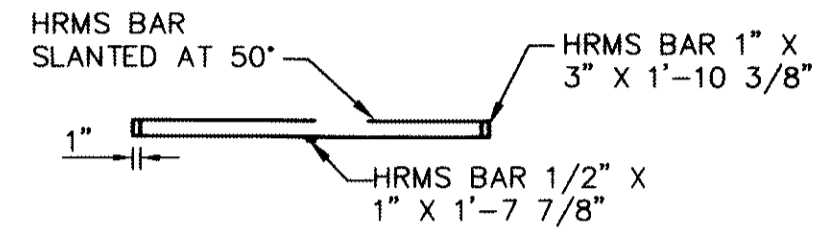


NOTE:
1. ALL CONCRETE SHALL HAVE 3,000 PSI MIN. @ 28 DAYS.
2. NINETY-FIVE (95%) PERCENT COMPACTION AS PER ASTM D-1557 UNDER ALL CONCRETE STRUCTURES.
3. REINFORCED STEEL SHALL BE DEFORMED AND A MINIMUM OF GRADE 40.

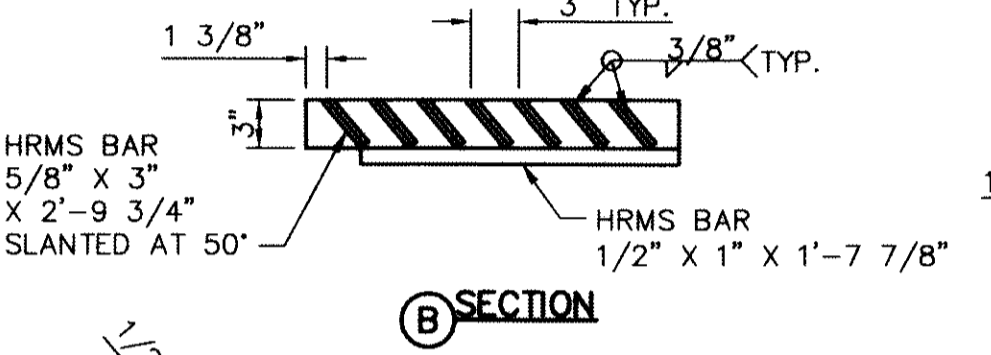
3 72\"/>



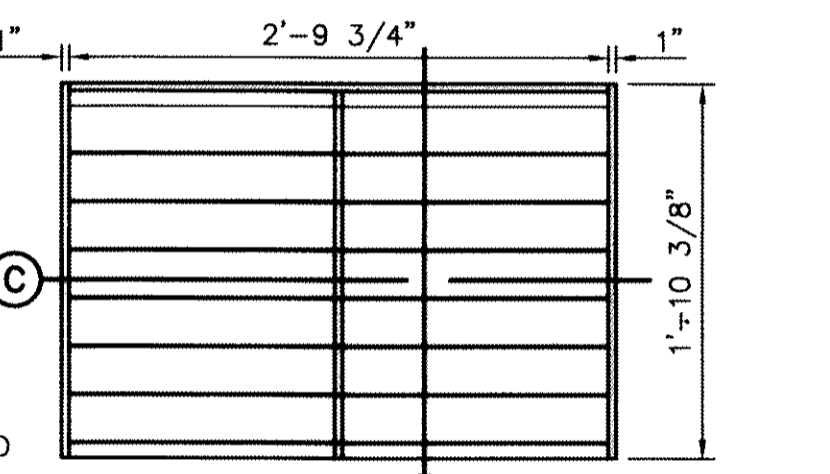
A SECTION



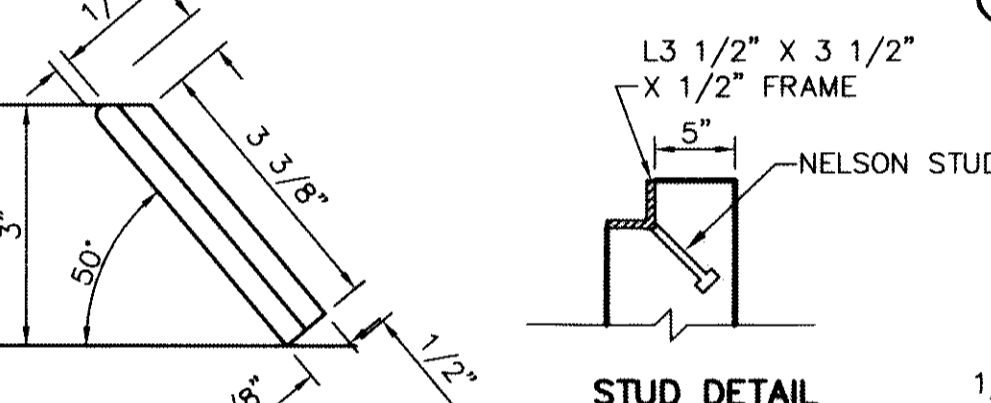
C SECTION



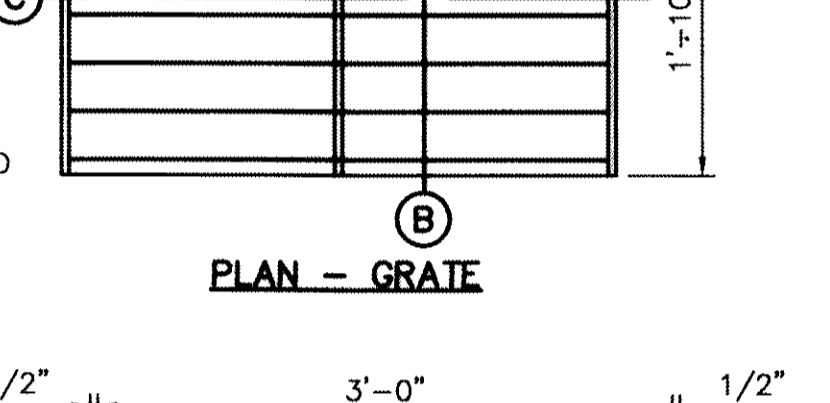
B SECTION



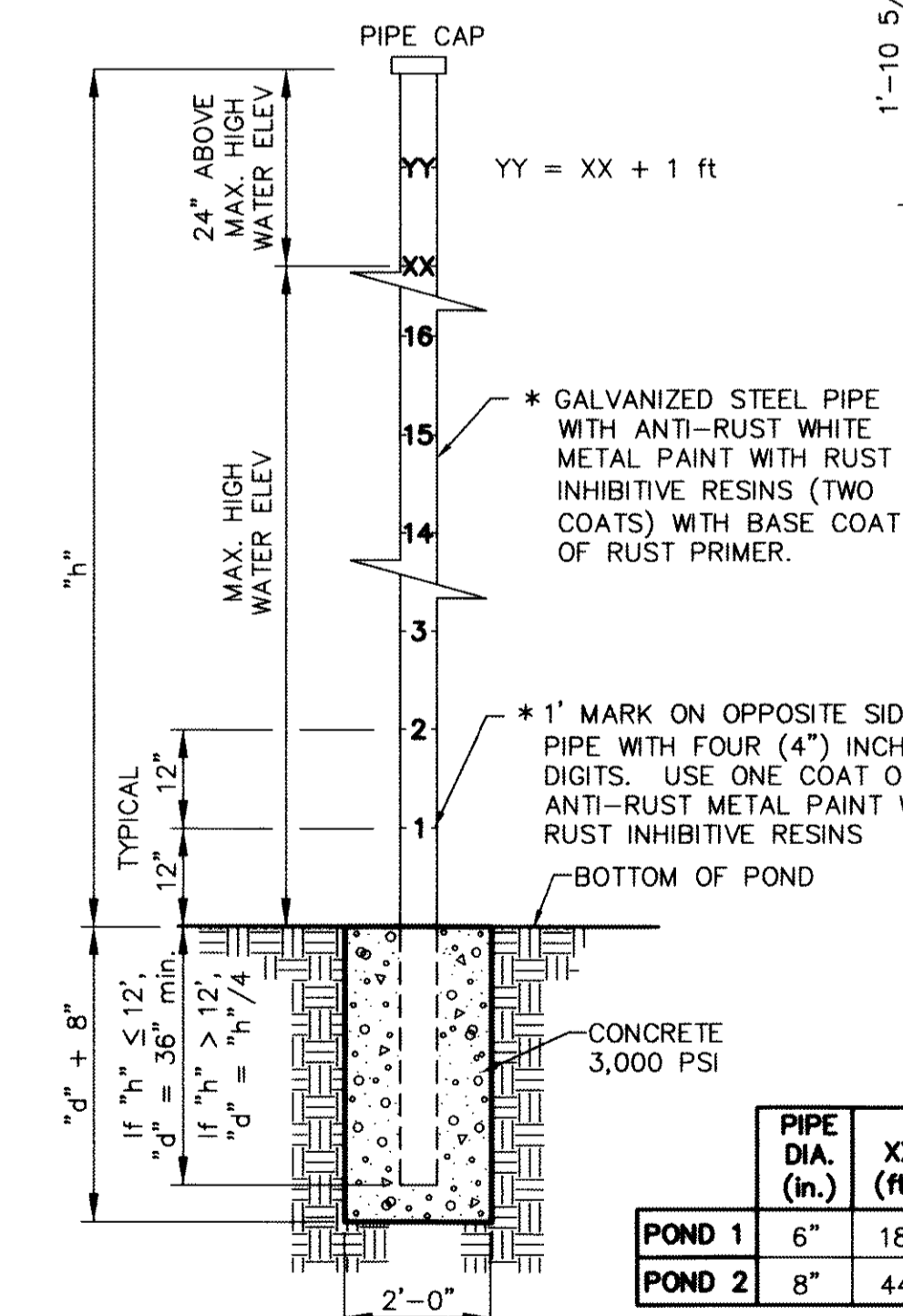
PLAN - GRATE



SLANTED BAR DETAIL

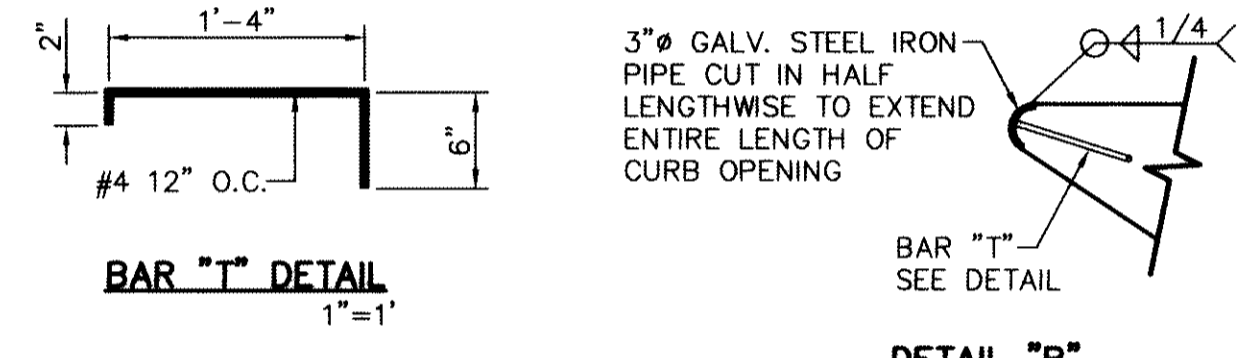


STUD DETAIL

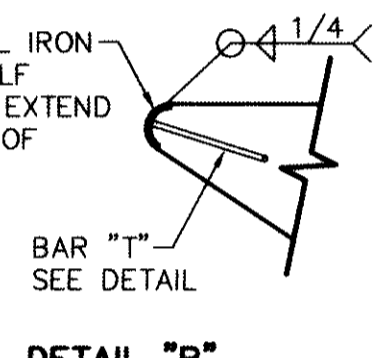


NOTE:
1. CONSULT WITH PAINT MANUFACTURER FOR PRODUCTS THAT CAN SUSTAIN LONG PERIODS OF MOISTURE.
2. GAUGE REQUIRED IN PONDS OF GREATER THAN FIVE (5') FOOT DEPTH ONLY.
3. h" = Height
4. XX = MAXIMUM HIGH WATER ELEVATION BASED ON A 100-YR STORM EVENT ROUNDED TO NEAREST WHOLE NUMBER.
5. ALTERNATES WILL BE ALLOWED WITH THE PRIOR REVIEW AND APPROVAL OF THE CITY ENGINEER

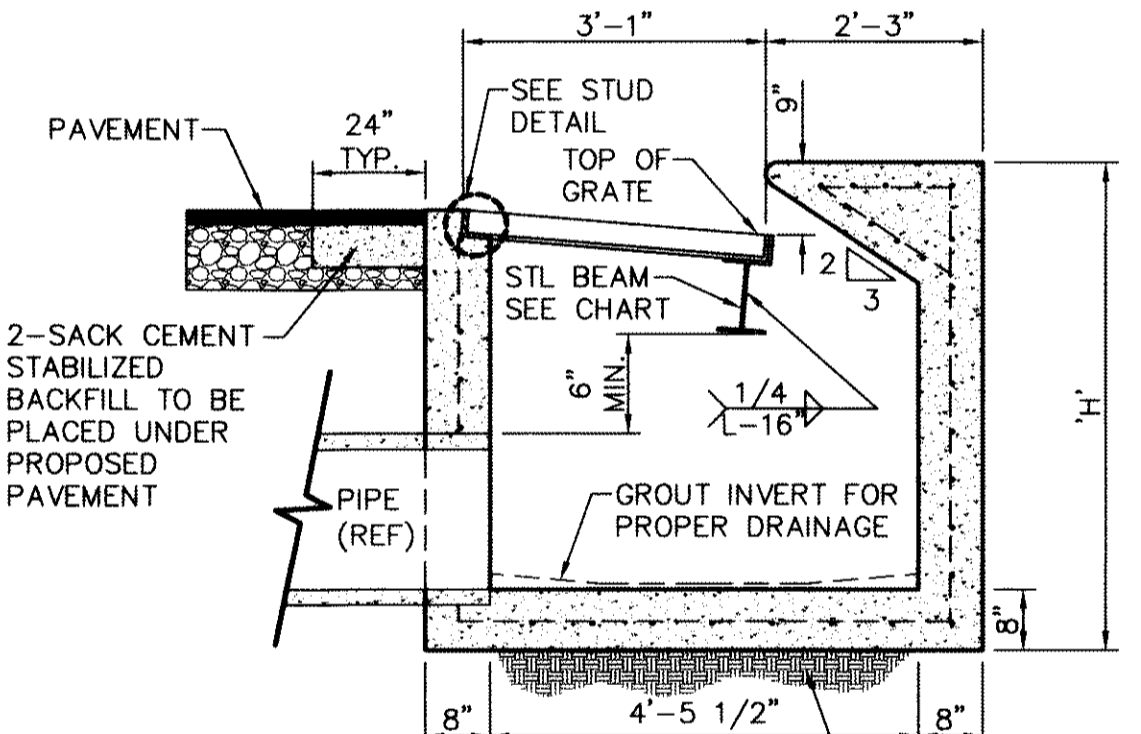
6 WATER DEPTH POLE DETAIL
SCALE: N.T.S.



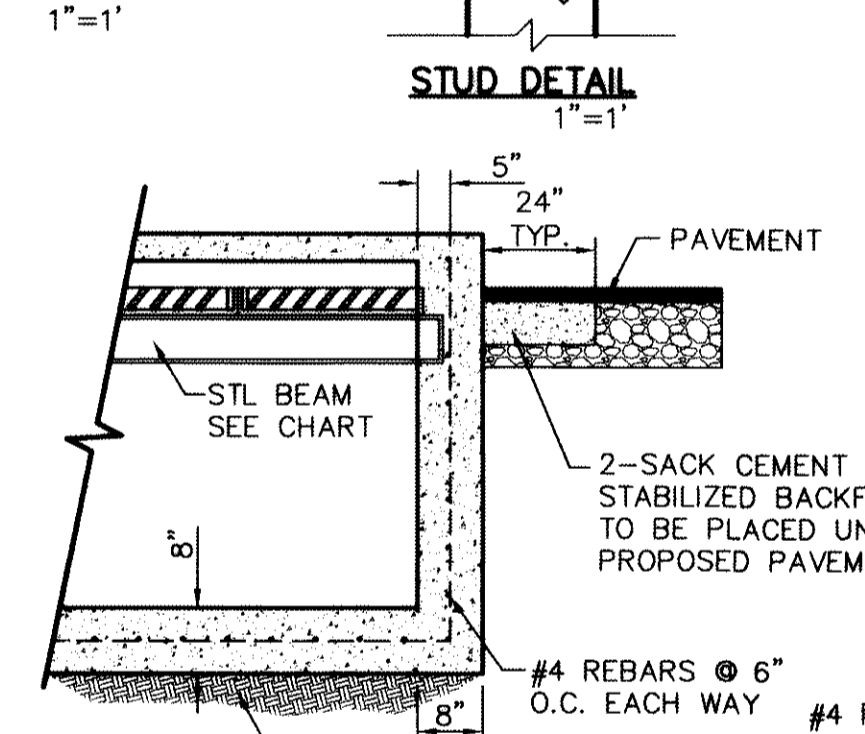
BAR "T" DETAIL



DETAIL "B"



A SECTION



B SECTION

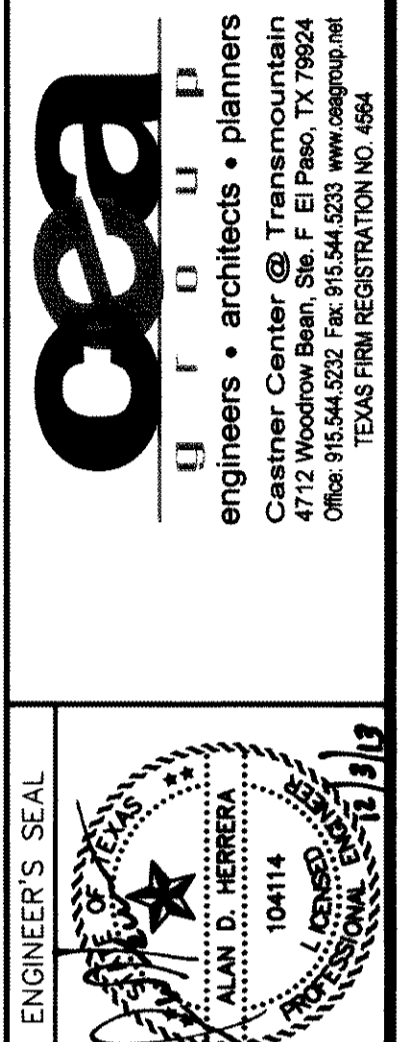
DROP INLET GENERAL NOTES:

- WELDED STEEL OR CAST GRATES AS DETAILED ARE ALL ACCEPTABLE GRATES. MIXING OF ALTERNATE TYPES OF GRATES ON THE SAME PROJECT WILL BE PERMITTED WITH THE APPROVAL OF DEVELOPMENT SERVICES.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS.
- SHARP EDGES RESULTING FROM FABRICATION SHALL BE BULLED BY ANY ACCEPTABLE METHOD FOR SAFETY IN HANDLING.
- GRATES SHALL BE INSTALLED IN FRAME WITH FLOW ARROW POINTING DOWNSTREAM OR TOWARD THE LOW POINT IN A SUMP.
- WELDED GRATES SHALL BE STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-183 OR OF CORROSION RESISTANT STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-161 OR M-222 OR BE MADE OF OTHER APPROVED STEELS OF EQUAL QUALITY. MIXING GRADES OF STEEL ON THE SAME GRATE WILL NOT BE PERMITTED.
- GRATES MADE OF M-183 STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-111 SPECIFICATIONS OR SHALL BE PAINTED WITH INORGANIC ZINC PAINTS, MEETING THE REQUIREMENTS OF CURRENT STANDARD SPECIFICATIONS.
- ALL WELDS SHALL HAVE A MINIMUM OF 1/4" FILLET AND SHALL CONFORM TO THE SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND TO THE AWS STRUCTURAL WELDING CODE. ELECTRODES SHALL BE COMPATIBLE TO THE DIFFERENT GRADES OF STEEL THAT COMPRISE THE GRATE MEMBERS.
- CAST GRATES SHALL BE CAST STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-103, GRADE 65-35 OR OF DUCTILE IRON CONFORMING TO THE REQUIREMENTS OF ASTM A-536, SPECIAL GRADE 60-45, OR OF GRAY IRON CONFORMING TO THE REQUIREMENTS OF AASHTO M-105, CLASS 35B OR ASTM A-48 CLASS 35B. THE SPECIFICATIONS OF GENERAL APPLICATION FOR CAST STEEL GRATES SHALL BE AASHTO M-103 SCOPE 1.2.1, GRADE N-1.
- FERROUS CASTINGS SHALL BE OF UNIFORM QUALITY, FREE OF BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTION OR OTHER DEFECTS. THEY SHALL BE SMOOTH AND WELL CLEANED BY SHOT BLASTING OR OTHER APPROVED CLEANING METHOD. AFTER CLEANING THEY SHALL BE COATED WITH ASPHALT BASE PAINT RESULTING IN A SMOOTH COATING, TOUGH AND TENACIOUS WHEN COLD, NOT TACKY OR BRITTLE.
- ALL CASTING SHALL BE MANUFACTURED TRUE TO PATTERN. COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER.
- ALL CONCRETE TO BE 3,000 PSI. CHAMFER ALL EXPOSED EDGES 3/4". ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
- MINIMUM CONCRETE COVER SHALL BE 1 1/2" FOR STEEL REINFORCING.
- EXPANSION MATERIAL TO BE 1/2" BITUMINOUS FIBER AND PLACED WHERE PROPOSED CONCRETE COMES IN CONTACT WITH ANY EXISTING OR PROPOSED CONCRETE OR MASONRY STRUCTURE.
- STRUCTURAL STEEL SHALL BE SHOP PAINTED IN ACCORDANCE WITH TxDOT, ITEM 446 "PAINT AND PAINTING."
- SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM TO SLOPE AND GRADE TO EXISTING OR PROPOSED CURB AND WALK ADJACENT TO INLETS.
- GRATES WILL BE DEPRESSED 1" BELOW PROPOSED OR EXISTING GRADE.
- ALL REINFORCING BARS TO BE #4 BARS AT 6" O.C. GRADE 60. BEND BARS AROUND PIPE OPENINGS.
- LOCATION OF SEWER PIPES SHOWN ELSEWHERE IN PLANS.
- TWO 3/8"x4" LONG CONCRETE ANCHOR STUDS REQUIRED FOR EACH SIDE OF FRAME, WHERE RESTING ON CONCRETE, USE NELSON STUDS OR EQUAL.
- THE GRATES OF ALL INLETS WITHIN THE STREET PAVEMENT MUST BE CONSTRUCTED WITH THE GRATE BARS PERPENDICULAR TO THE CURB.
- INLETS TO BE DESIGNATED IN PLANS BY II * THESE CAPACITIES CORRESPOND TO A CLOGGING FACTOR OF 0.5

7 DROP INLET (TYPE I) DETAILS
SCALE: 1" = 2'-0"

| NO. GRATES | CAPACITY | "L" | BEAM LENGTH | BEAM (MIN. SIZES) |
|------------|-----------|-----------|-------------|--------------------------|
| 2 | 19.63 CFS | 5'-1 1/8" | 4'-7 1/8" | W6x12, S6x12.5, MC6x15.1 |
| 3 | 29.69 CFS | 7'-0 1/4" | 6'-5 1/8" | W8x15, S7x15.3, MC7x17.6 |
| 4 | 39.10 CFS | 8'-9 7/8" | 8'-3 7/8" | W9x18, S8x18.4, MC9x21.9 |
| 5 | 48.72 CFS | 10'-8" | 10'-2" | W12x16, S8x21, MC10x21.9 |

RECORD DRAWINGS
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10/24/2013

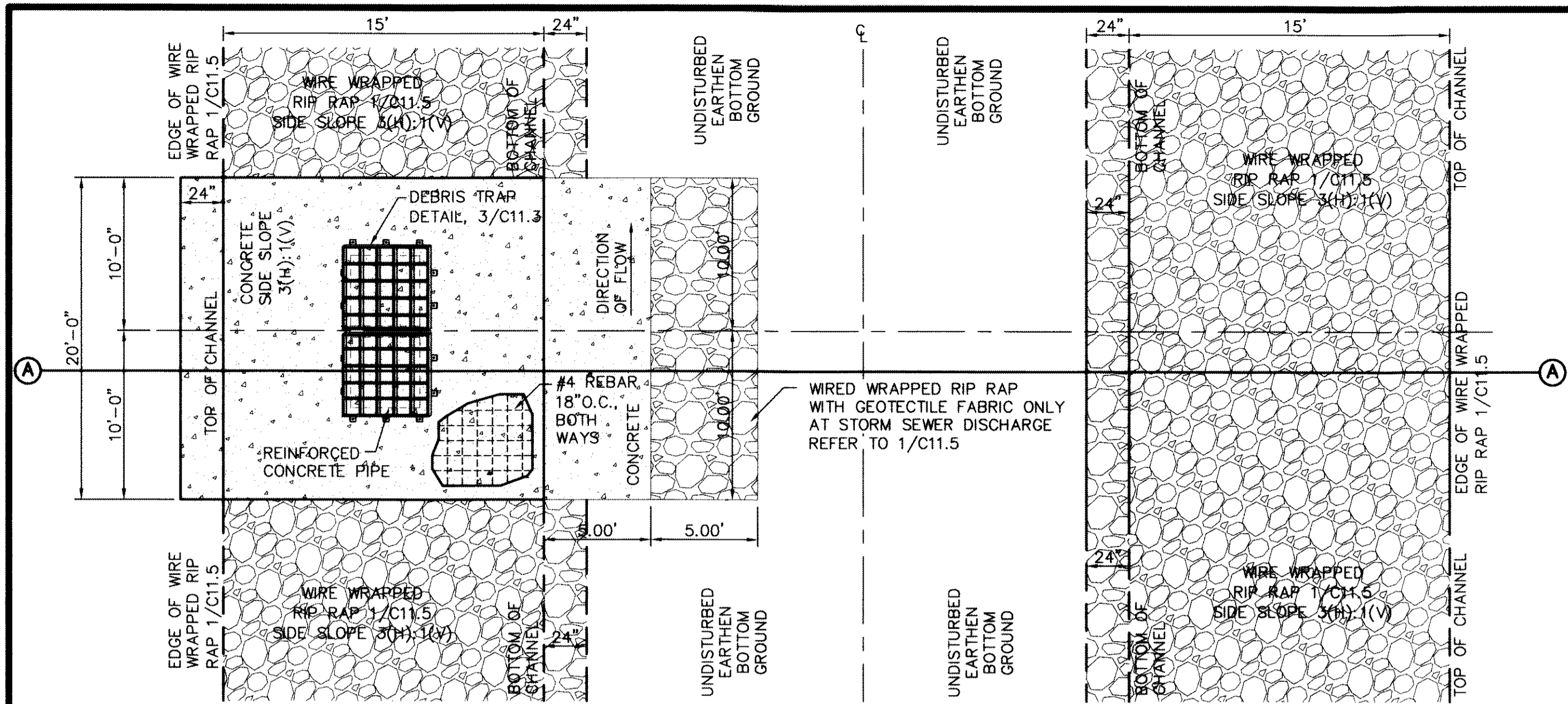


SCALE: AS SHOWN
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.H.A.
APP'D. BY: A.H.
JOB No. 2050-013-LD

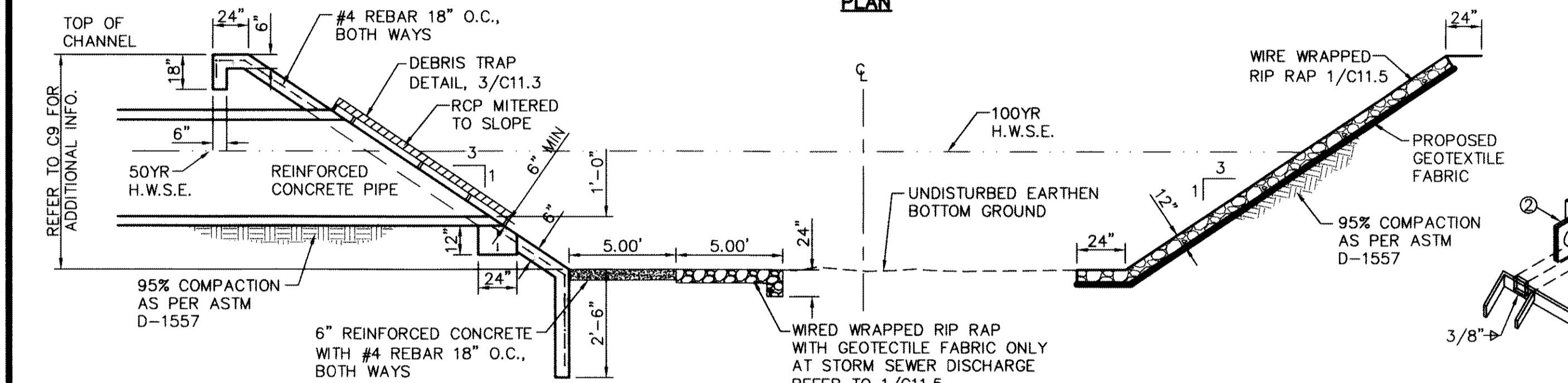
PROJECT TITLE
DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SHEET TITLE
DRAINAGE
DETAILS
(SHEET 1 OF 10)
SHEET NO.

C11.1



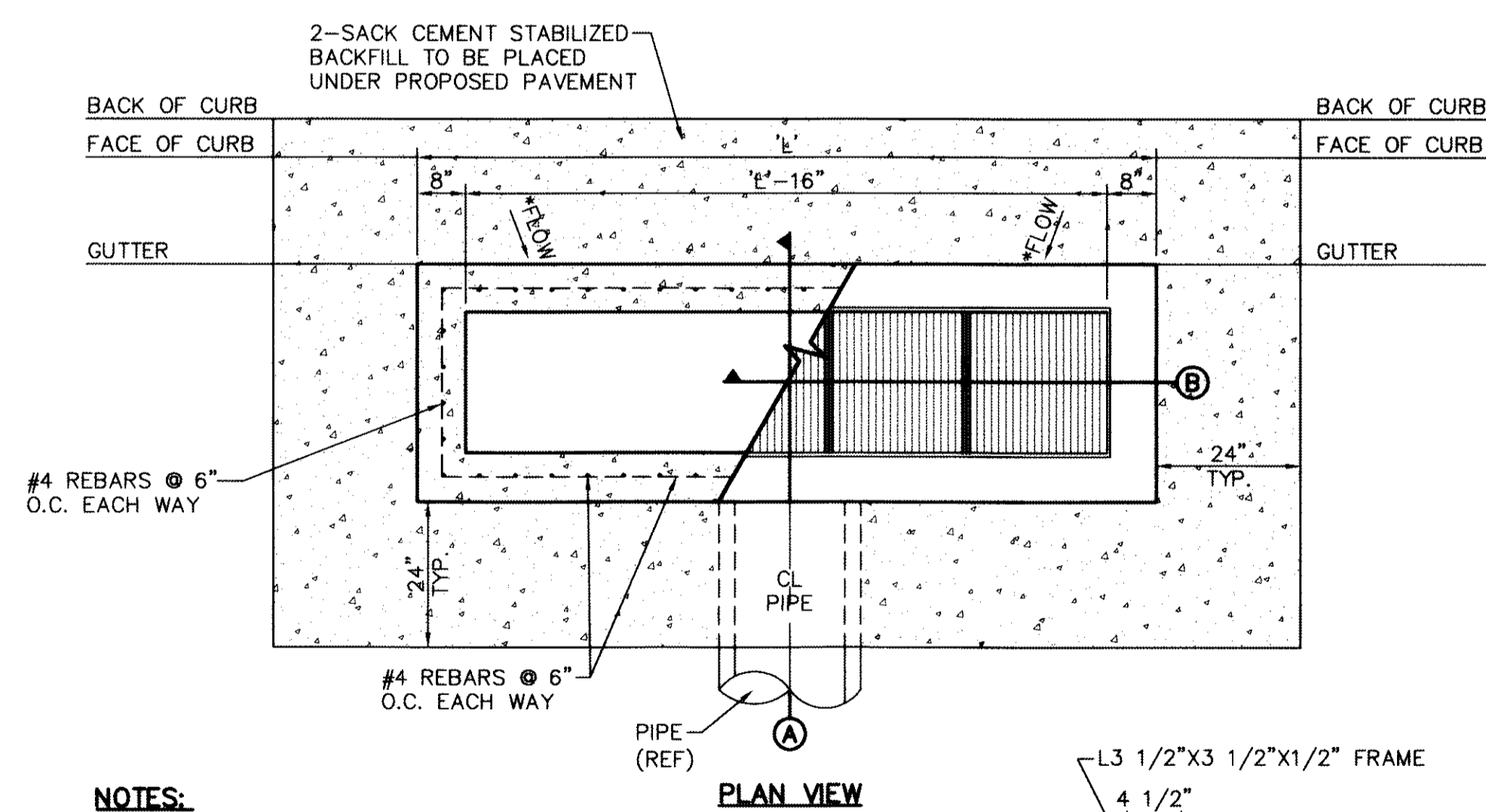
PLAN



SECTION A

- NOTES:**
1. ALL CONCRETE SHALL HAVE 3,000 PSI MIN. @ TWENTY-EIGHT (28) DAYS.
 2. REINFORCED STEEL SHALL BE A MINIMUM OF GRADE 40.
 3. 1/2" PREMOLDED BITUMINOUS EXPANSION JOINT (AASHTO M-33) IS REQUIRED @ EVERY FORTY (40') FEET. TRIM BITUMINOUS MATERIAL 1/4" LESS THAN NEAT DIMENSION.
 4. THE CONCRETE & RIP-RAP PLACED AT THE BOTTOM OF CHANNEL SHALL BE PLACED ONLY WHEN THERE IS AN OUTLET PIPE & IT SHOULD BE ALIGNED WITH THE PIPE. DIMENSIONS AT ITS SHORTEST DISTANCE.
 5. REFER TO C7 & C9 FOR ADDITIONAL INFO ON HWSE & Q.
 6. DUMMY JOINTS REQUIRED AT TEN (10') FOOT ON CENTER.
 7. REFER TO 2/C11.3 & 5/C11.3 FOR ADDITIONAL INFORMATION ON CHANNEL CONSTRUCTION.

1 OUTLET STRUCTURE @ CHANNEL
SCALE: N.T.S.

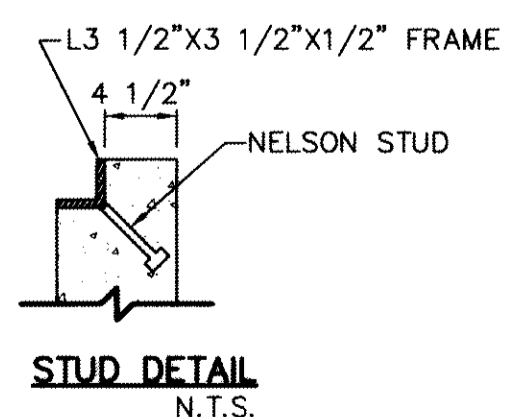


PLAN VIEW

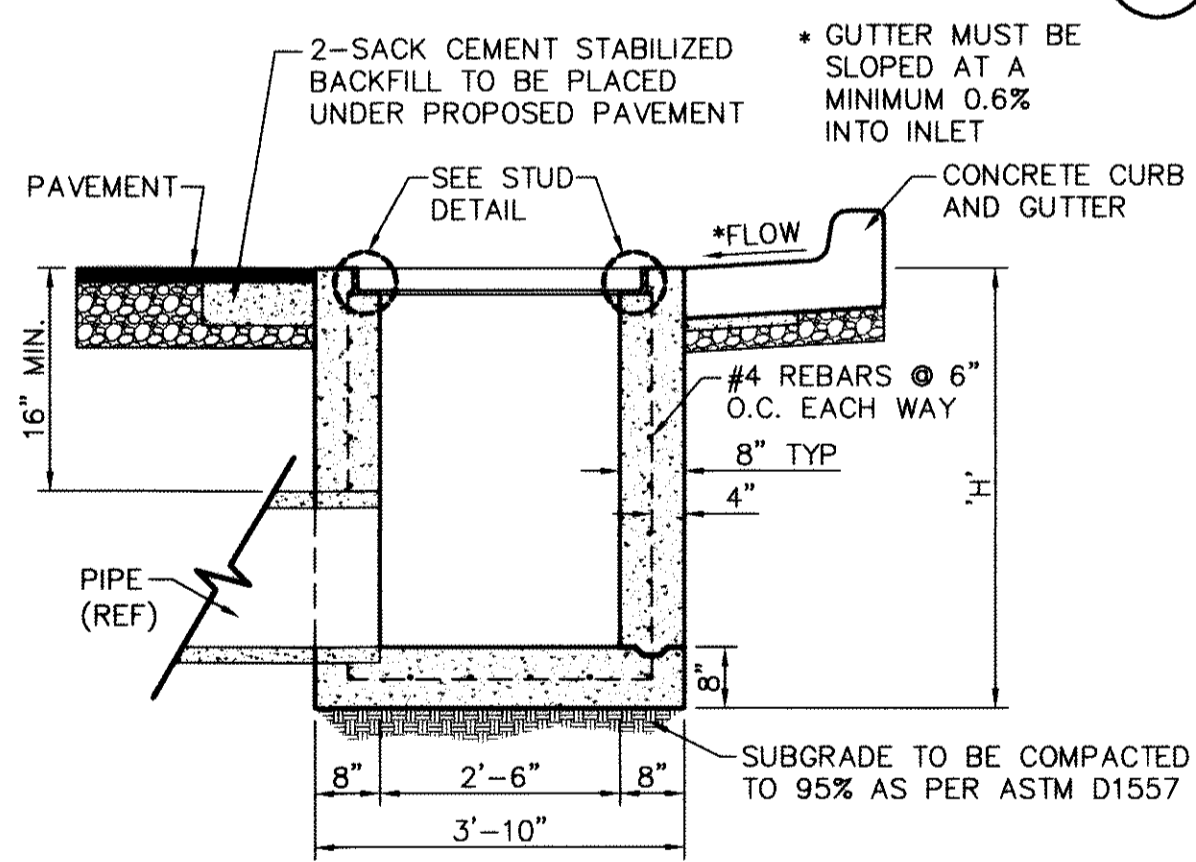
- NOTES:**
1. GRATES TO BE PERPENDICULAR TO TRAFFIC
 2. CONCRETE TO BE 3,000 PSI (MIN.) CORE TEST @ TWENTY-EIGHT (28) DAYS.
 3. H=20" MAXIMUM
 4. SEE STORM SEWER PLAN & PROFILES FOR APPROVED PIPE DIAMETER.

| NUMBER OF GRATES | "L" | CAPACITY* |
|------------------|-----------|------------|
| 2 | 5'-1 1/8" | 9.436 CFS |
| 3 | 7'-1/8" | 14.155 CFS |
| 4 | 8'-9 7/8" | 18.873 CFS |
| 5 | 10'-8" | 23.592 CFS |

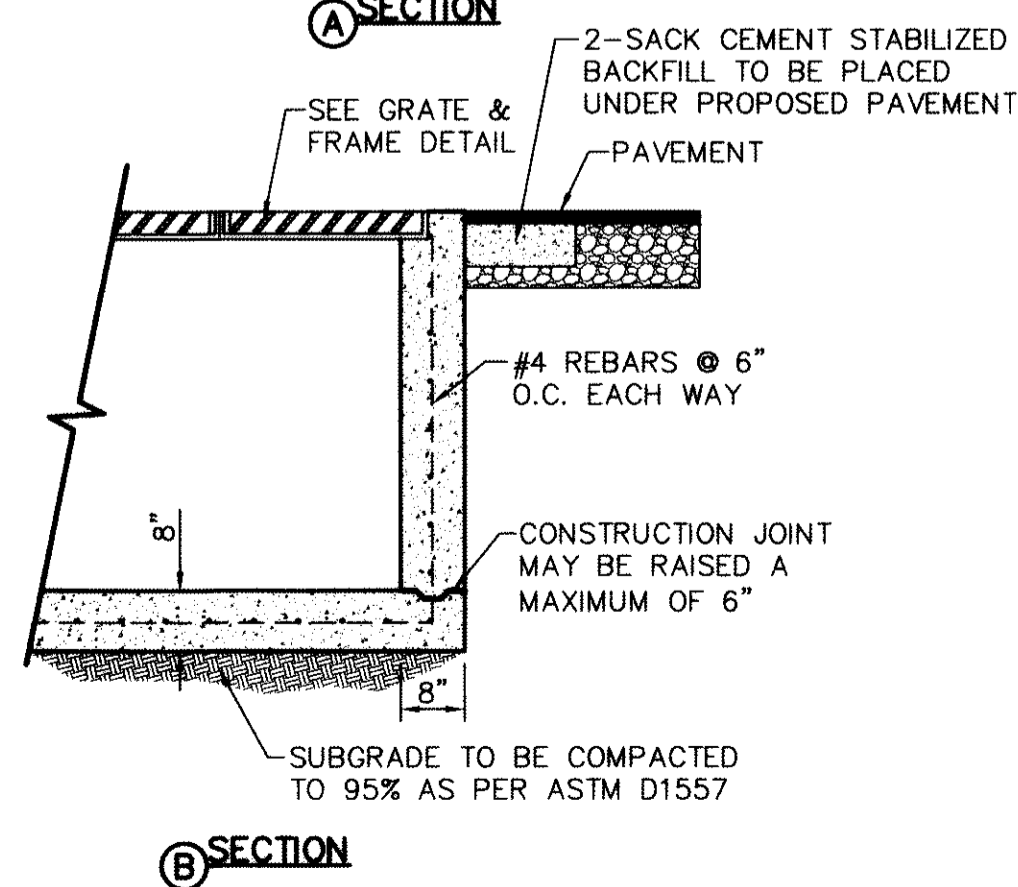
* THESE CAPACITIES CORRESPOND TO A CLOGGING FACTOR OF 0.5



STUD DETAIL
N.T.S.



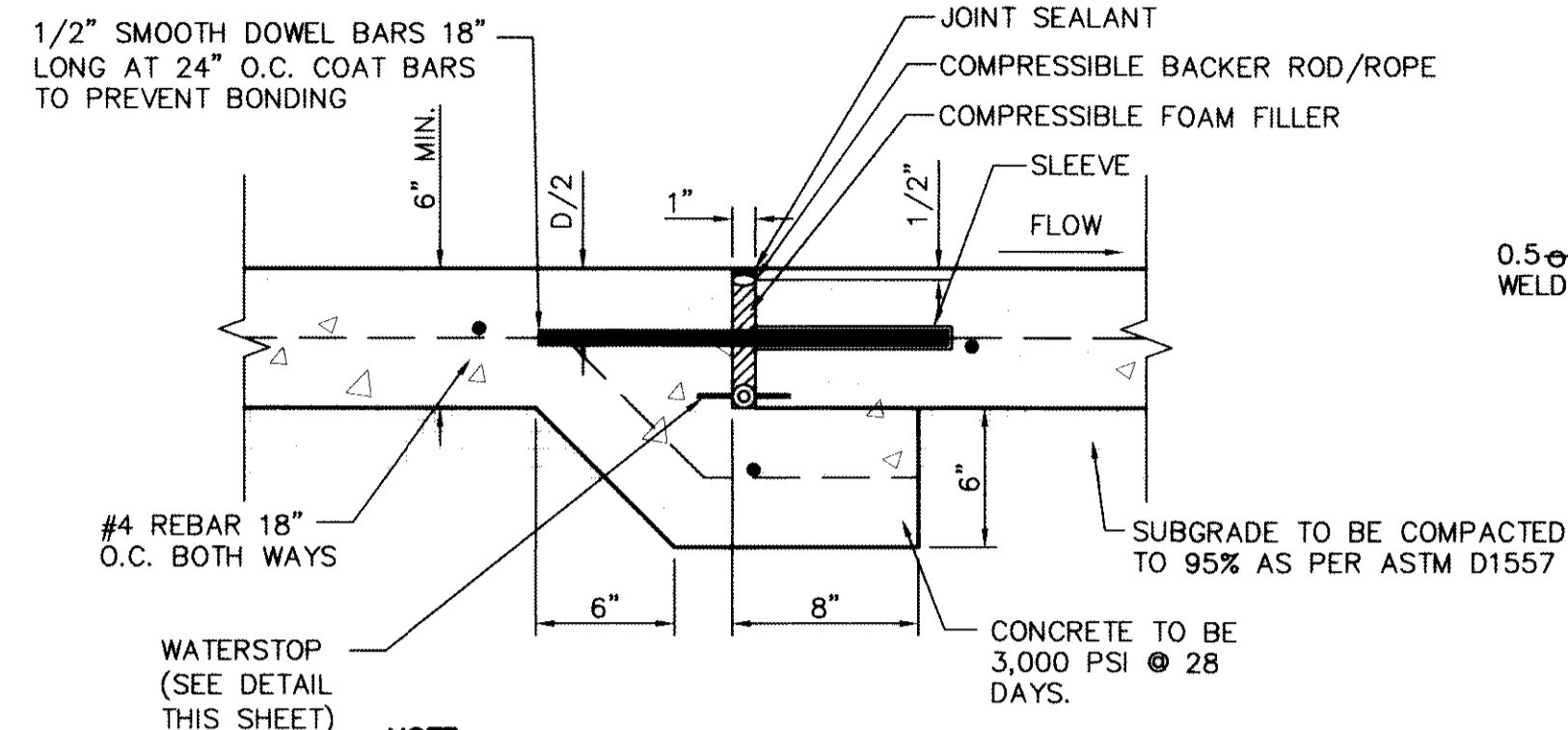
A SECTION



B SECTION

7 DROP INLET (TYPE III) DETAILS
SCALE: 1" = 2'-0"

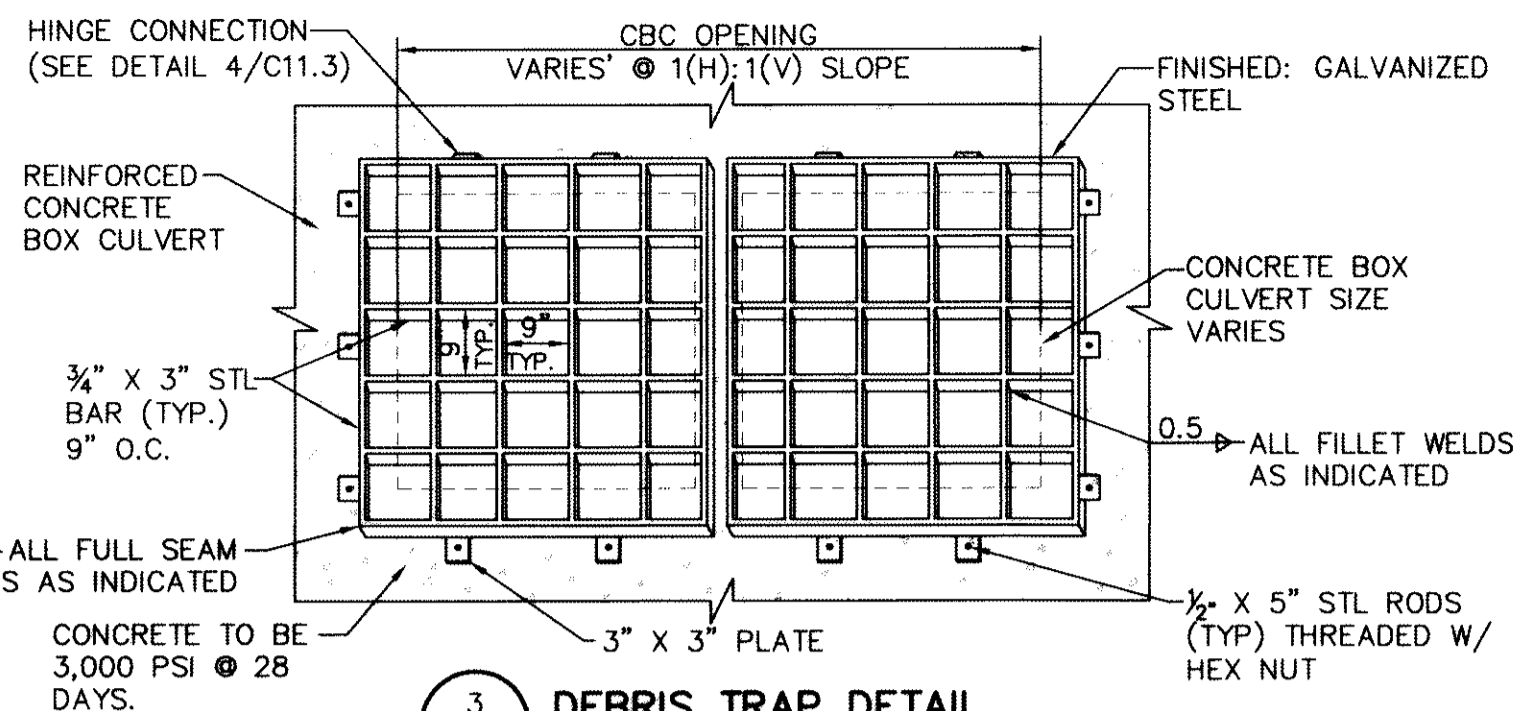
RECORD DRAWINGS
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
10/24/2013



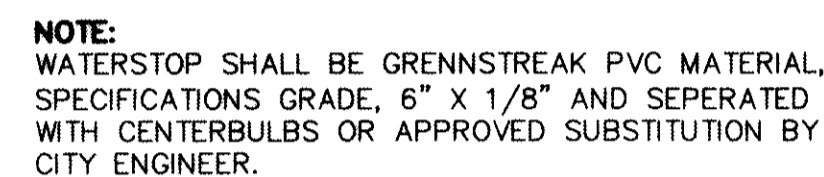
2 TYPICAL EXPANSION JOINT DETAIL
SCALE: 3" = 2'-0"

- NOTES:**
1. 3" BAR TOP OF RACK.
 2. 2 L 8" x 1/2" x 5".
 3. STL PIPE 4" O.D. 2 1/2" I.D., LENGTH 6" LESS THAN ROD.
 4. U 8" x 1/2" x 5" x 3".
 5. 1" 8 STEEL RODS THREADED BOTH ENDS LENGTH TO EXTEND THROUGH HEADWALL.
 6. 2" DIA. STEEL ROD THREAD BOTH ENDS.
 7. 2" HEX NUTS AND WASHERS.
 8. 3" BAR.

4 HINGE DETAIL
SCALE: N.T.S.

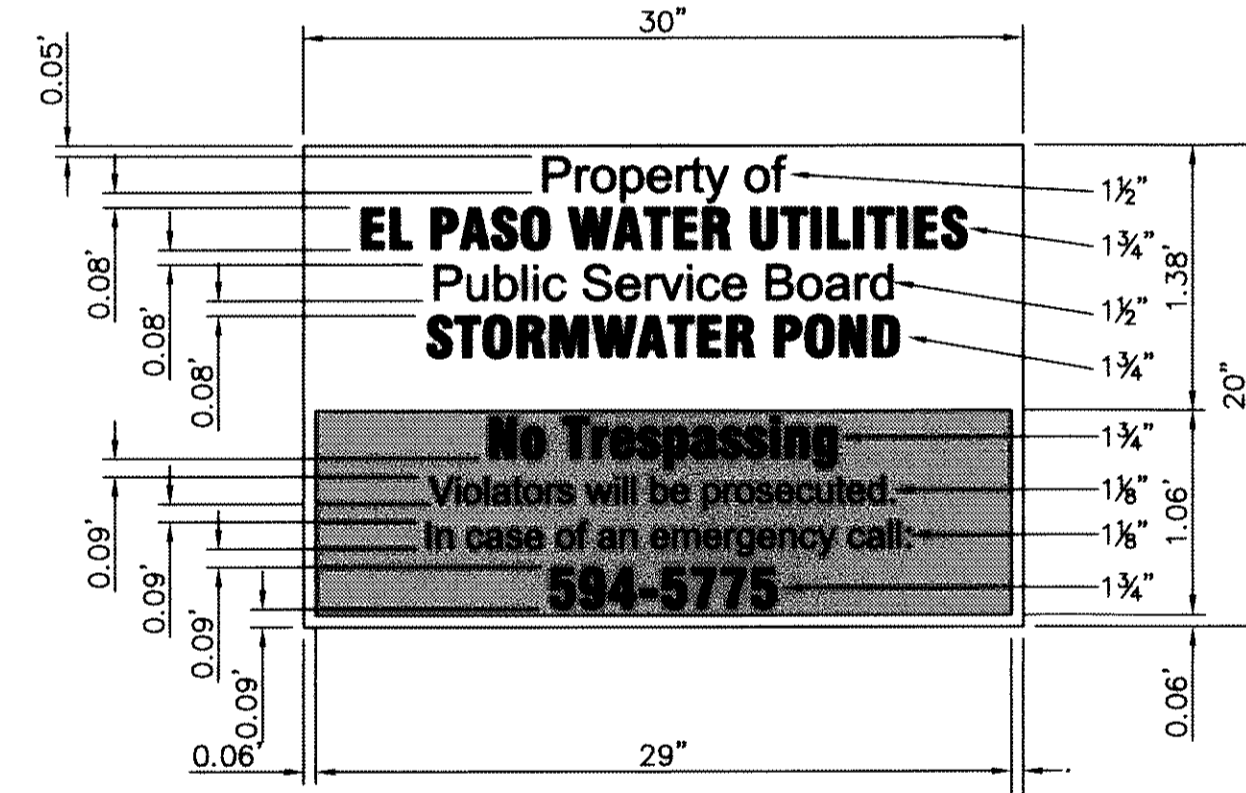


3 DEBRIS TRAP DETAIL
SCALE: N.T.S.

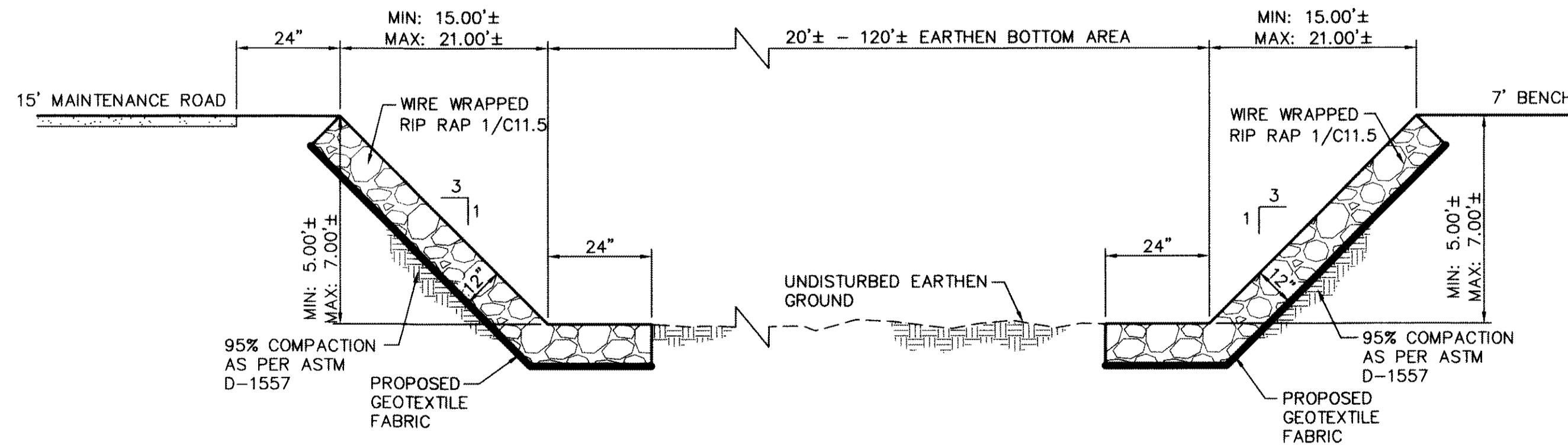


5 WATERSTOP DETAIL
SCALE: 3" = 2'-0"

- 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.



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

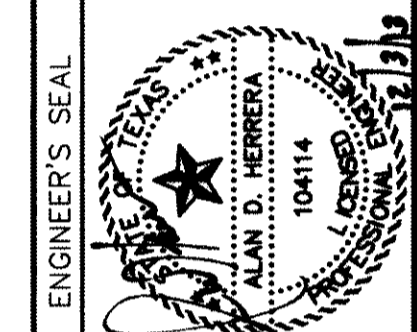


- NOTES:**
1. REFER TO DETAIL 1 OF C11.5 FOR ADDITIONAL INFORMATION.
 2. PROPOSED GEOTEXTILE FABRIC SHALL BE AS TREVINA S11144 OR APPROVED EQUAL.
 3. THE BOTTOM OF THE CHANNEL SHALL BE FREE OF DISTURBANCE.
 4. THE CONTRACTOR DURING CONSTRUCTION ACTIVITIES MUST STRICTLY LIMIT DISTURBANCE TO THE BOTTOM OF THE CHANNEL.

8 TYPICAL CHANNEL SECTION DETAIL
SCALE: N.T.S.

REFERENCES - BENCHMARKS
FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
ELEVATION: 3956.83 (CITY OF EL PASO VERTICAL DATUM SHOW) (NAD 83 DATUM)
3945.78 (NAD 83 DATUM)
PROJECT BENCHMARK IS NAD 83/55'E, 3.02083 FEET FROM A 1/2" REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLE D. WARD SURVEY NO. 239

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TEXAS FIRM REGISTRATION NO. 4864



SCALE: AS SHOWN
Vertical: N/A
Horizontal: N/A
Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPROV. BY: A.H.
JOB NO. 2050-013-ID

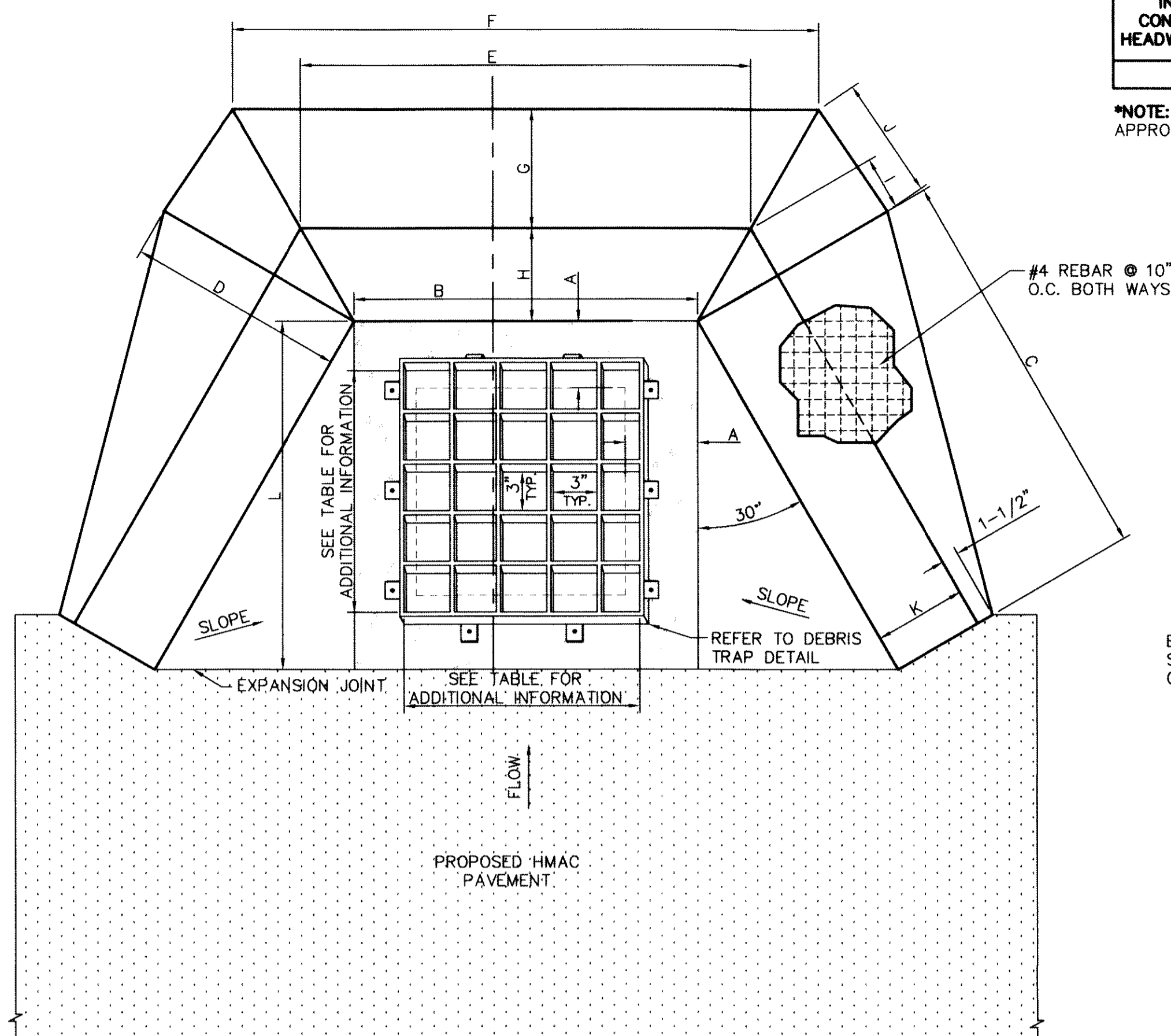
PROJECT TITLE
DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SHEET TITLE
DRAINAGE DETAILS
(SHEET 3 OF 10)
SHEET NO.

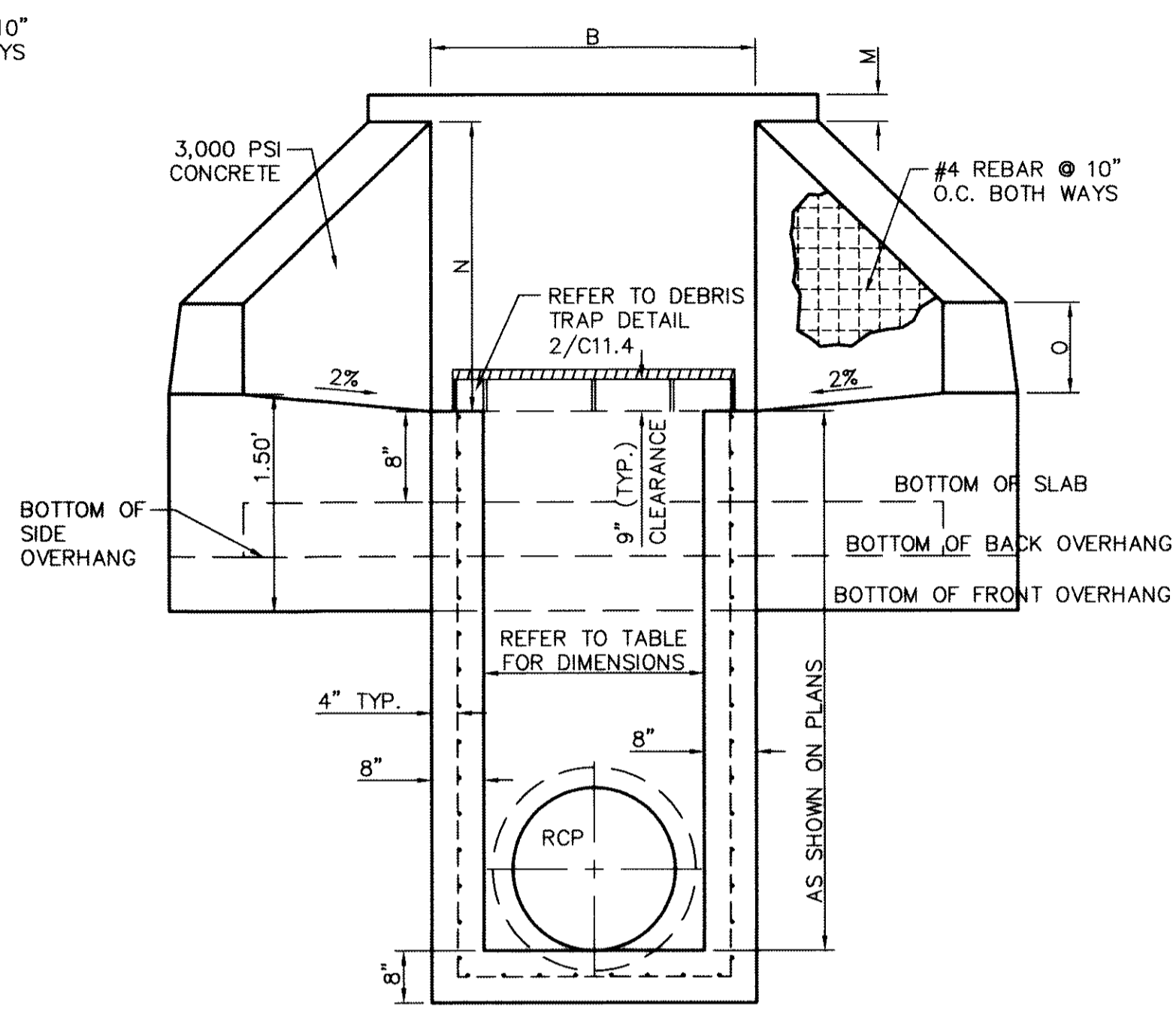
C11.3

| INLET CONCRETE HEADWALL I.D. | SIZE OF REINFORCED BOX CULVERT | A | *B | C | D | E | F | G | H | I | J | K | *L | M | N | O |
|------------------------------|--------------------------------|----|-----|-----|-----|---------|-----|-----|----|-----|-----|----|-----|----|-----|-----|
| 1 | 48" X 36" | 8" | 64" | 60" | 19" | 73 1/2" | 86" | 11" | 8" | 48" | 11" | 8" | 52" | 3" | 36" | 24" |

*NOTE: APPROXIMATE DISTANCE SHOWN. ACTUAL DISTANCE WILL VARY ACCORDING TO PIPE WALL THICKNESS.

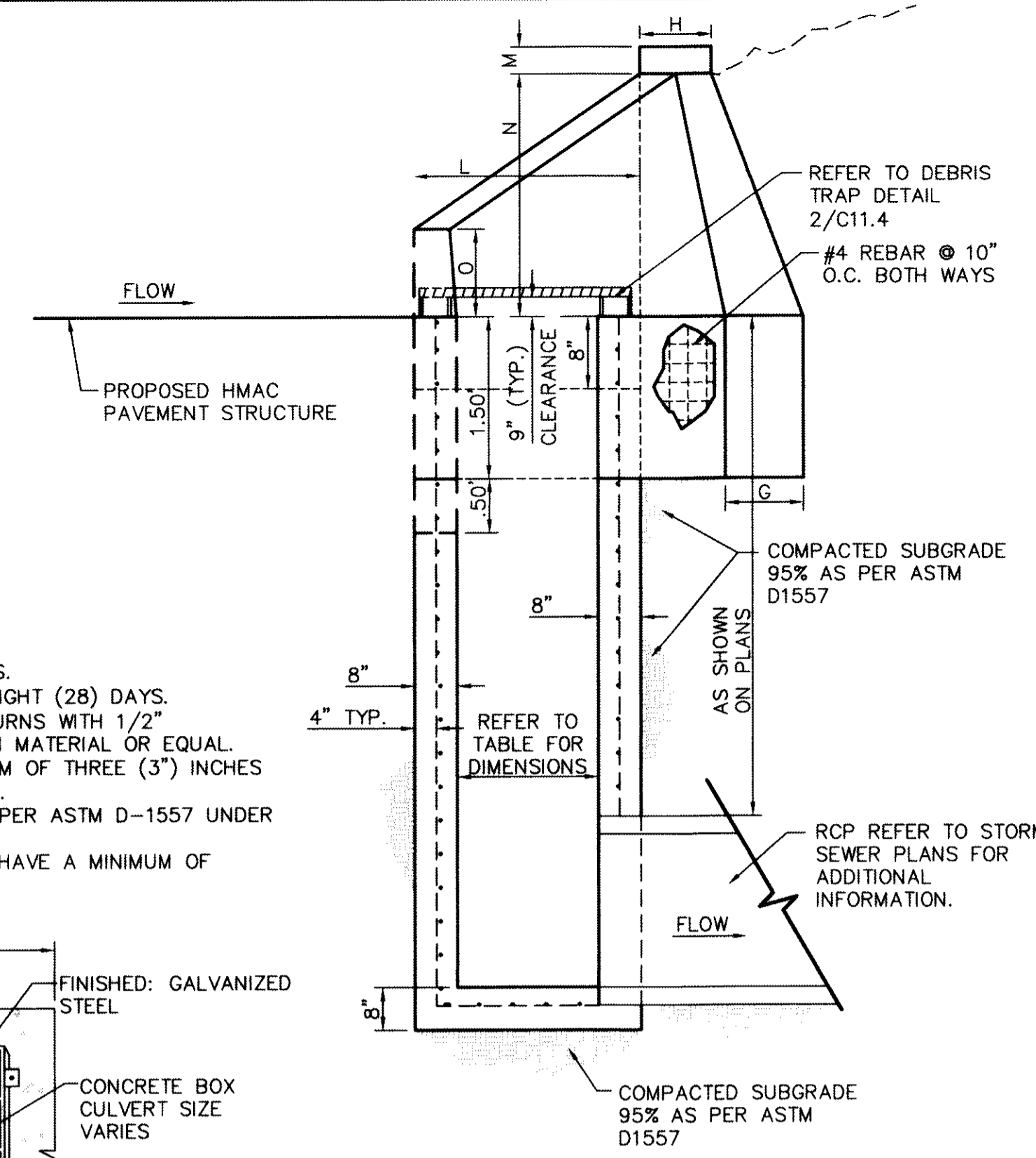


TOP VIEW
SCALE: N.T.S.



FRONT VIEW
SCALE: N.T.S.

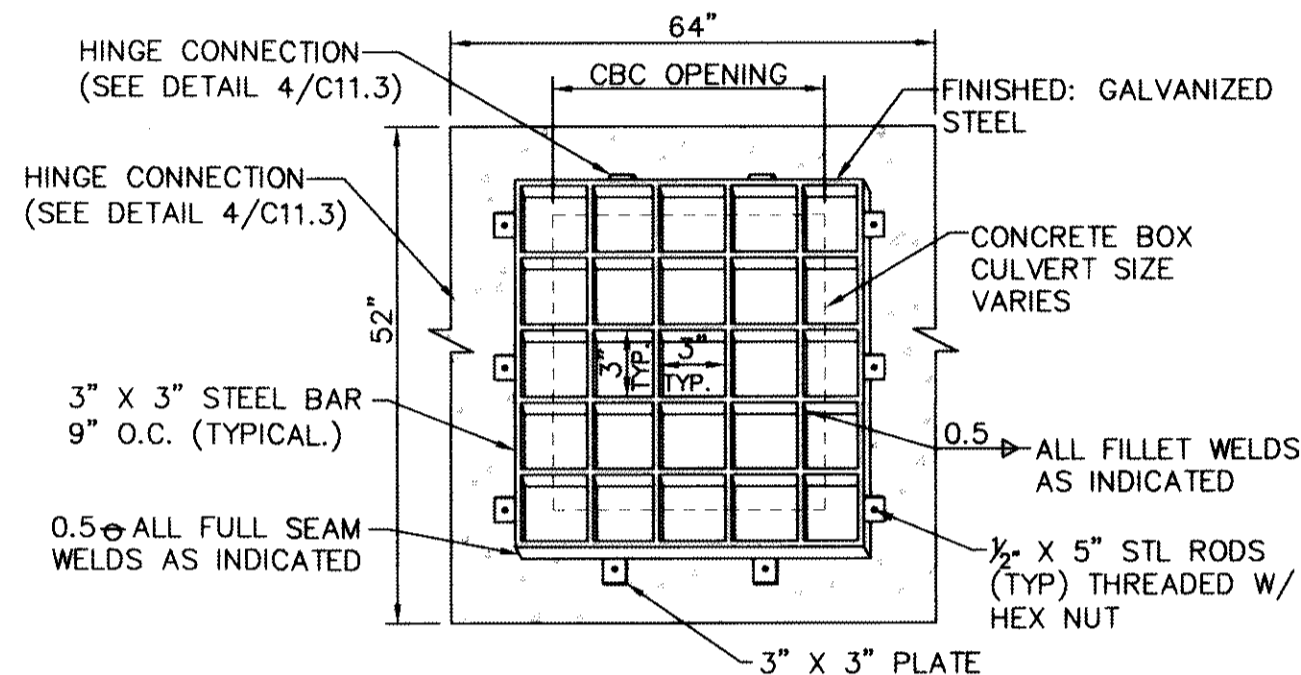
1 INLET CONCRETE HEADWALL WITH WING WALL FOR LINE A
SCALE: 1"=1'-0"



SIDE VIEW
SCALE: N.T.S.

CONCRETE HEADWALL NOTES:

- CASTING TO BE SMOOTH & VOID OF AIR HOLES.
- CONCRETE TO BE 3,000 PSI MIN. @ TWENTY-EIGHT (28) DAYS.
- EXPANSION MATERIAL REQUIRED AT CURB RETURNS WITH 1/2" PREMOULDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
- ALL REINFORCING BARS SHALL HAVE A MINIMUM OF THREE (3") INCHES OF COVER WHEN ABUTTING EARTHEN MATERIAL.
- NINETY-FIVE (95%) PERCENT COMPACTION AS PER ASTM D-1557 UNDER ALL CONCRETE STRUCTURES.
- REINFORCED STEEL SHALL BE DEFORMED AND HAVE A MINIMUM OF GRADE 40.



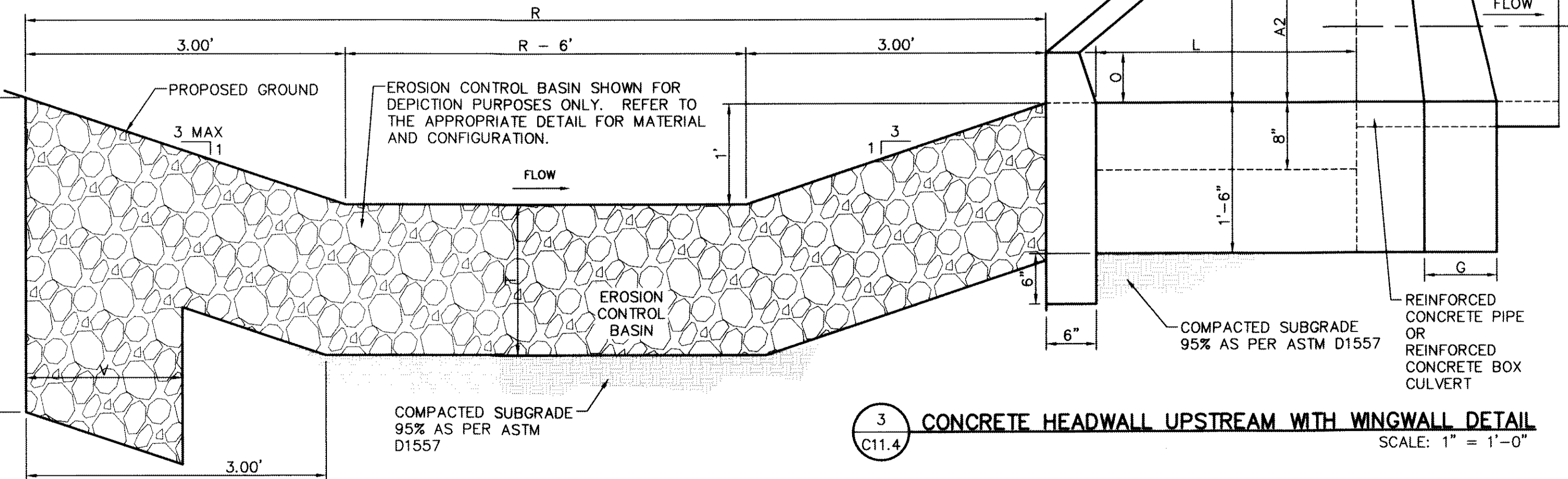
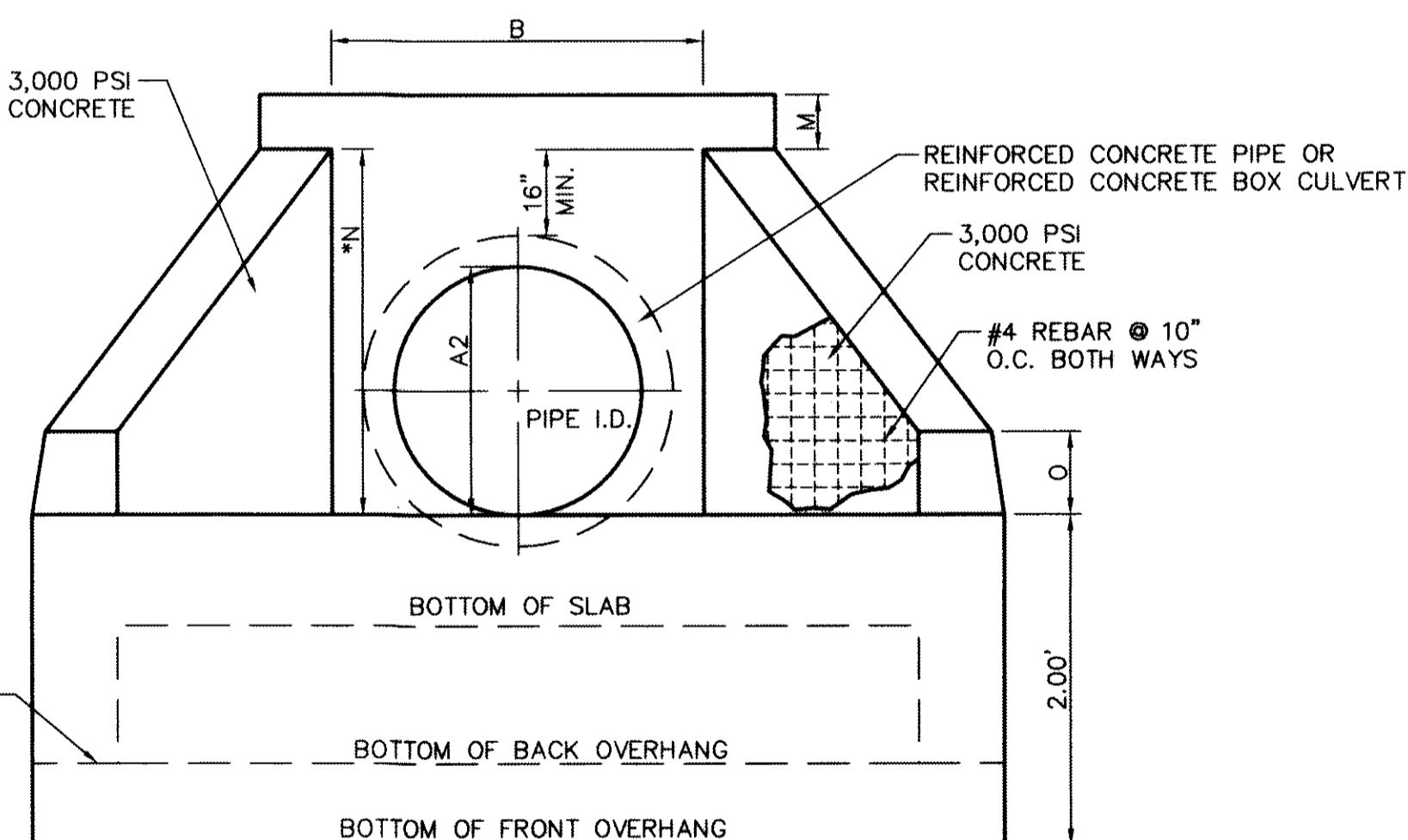
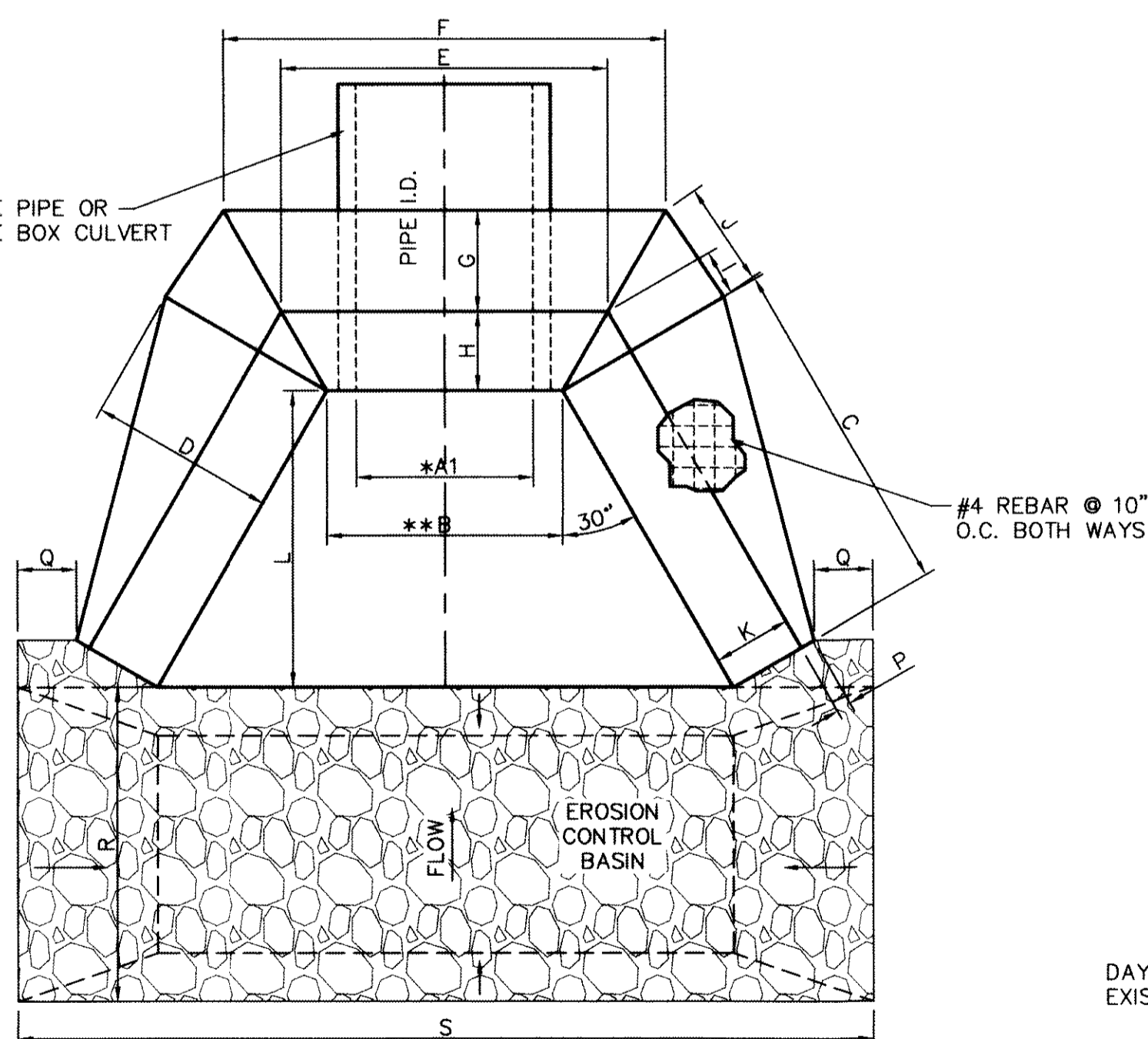
NOTE: THE DEBRIS TRAP SHALL HAVE A NINE (9") INCH CLEARANCE.

2 DEBRIS TRAP DETAIL FOR INLET CONCRETE HEADWALL LINE A
SCALE: N.T.S.

RECORD DRAWINGS
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10/24/2013

CONCRETE HEADWALL UPSTREAM NOTES:

- CASTING TO BE SMOOTH & VOID OF AIR HOLES.
- CONCRETE TO BE 3,000 PSI MIN. @ TWENTY-EIGHT (28) DAYS.
- EXPANSION MATERIAL REQUIRED AT CURB RETURNS WITH 1/2" PREMOULDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
- ALL REINFORCING BARS SHALL HAVE A MINIMUM OF THREE (3") INCHES OF COVER WHEN ABUTTING EARTHEN MATERIAL.
- NINETY-FIVE (95%) PERCENT COMPACTION AS PER ASTM D-1557 UNDER ALL CONCRETE STRUCTURES.
- REINFORCED STEEL SHALL BE DEFORMED AND HAVE A MINIMUM OF GRADE 40.



3 CONCRETE HEADWALL UPSTREAM WITH WINGWALL DETAIL
SCALE: 1"=1'-0"

| CONCRETE HEADWALL I.D. | REINFORCED CONCRETE PIPE | EROSION CONTROL BASIN | REFERENCE DETAIL | *A1 | A2 | **B | C | D | E | F | G | H | I | J | K | L | M | **N | O | P | Q | R | S | T | U | V |
|------------------------|--------------------------|-----------------------|------------------|------|-----|------|----------|-----|----------|----------|-----|----|--------|---------|----|------|----|---------|----|--------|-----|------|----------|-----|-----|-----|
| 1 | 2 - 48" RCP | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 3 - 66" RCP | WIRE WRAPPED RIP RAP | 1/C11.5 | 240" | 66" | 265" | 114 1/4" | 24" | 274 1/2" | 292 1/8" | 16" | 8" | 4 3/8" | 13 7/8" | 8" | 99" | 3" | 88 1/2" | 6" | 2" | 24" | 360" | 834" | 12" | 24" | 12" |
| 3 | 6 - 8"X6" RCBC | WIRE WRAPPED RIP RAP | 1/C11.5 | 616" | 72" | 644" | 124 1/4" | 24" | 653 1/2" | 671 1/8" | 16" | 8" | 4 3/8" | 13 7/8" | 8" | 108" | 3" | 96" | 6" | 2" | 24" | 360" | 834" | 12" | 24" | 12" |
| 4 | 1 - 24" RCP | LOOSE ROCK RIP RAP | 3/C11.2 | 24" | 24" | 40" | 41 1/8" | 15" | 46 1/8" | 57 3/4" | 9" | 6" | 3 1/8" | 8 3/8" | 6" | 36" | 3" | 43" | 6" | 1 1/2" | 6" | 120" | 106 1/8" | 24" | 36" | 24" |

NOTES:

- * APPROXIMATE DISTANCE INCLUDING THE NUMBER OF BARRELS.
- ** APPROXIMATE DISTANCE SHOWN. ACTUAL DISTANCE WILL VARY ACCORDING TO PIPE WALL THICKNESS.
- *** REFER TO C9 (CULVERT CROSSINGS) FOR ADDITIONAL INFORMATION ON DIMENSIONS.

REFERENCES - BENCHMARKS
 FOUNDING S.S. SURVEY REBAR STAMPS "FIND 1887"
 ELEVATION: 3946.11 (NAVD 88 DATUM)
 SHOW (CITY OF EL PASO VERICAL DATUM)
 TO THE PROJECT BEARING IS 100°05'52"E, 3100.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239
 DATE: _____ BY: _____

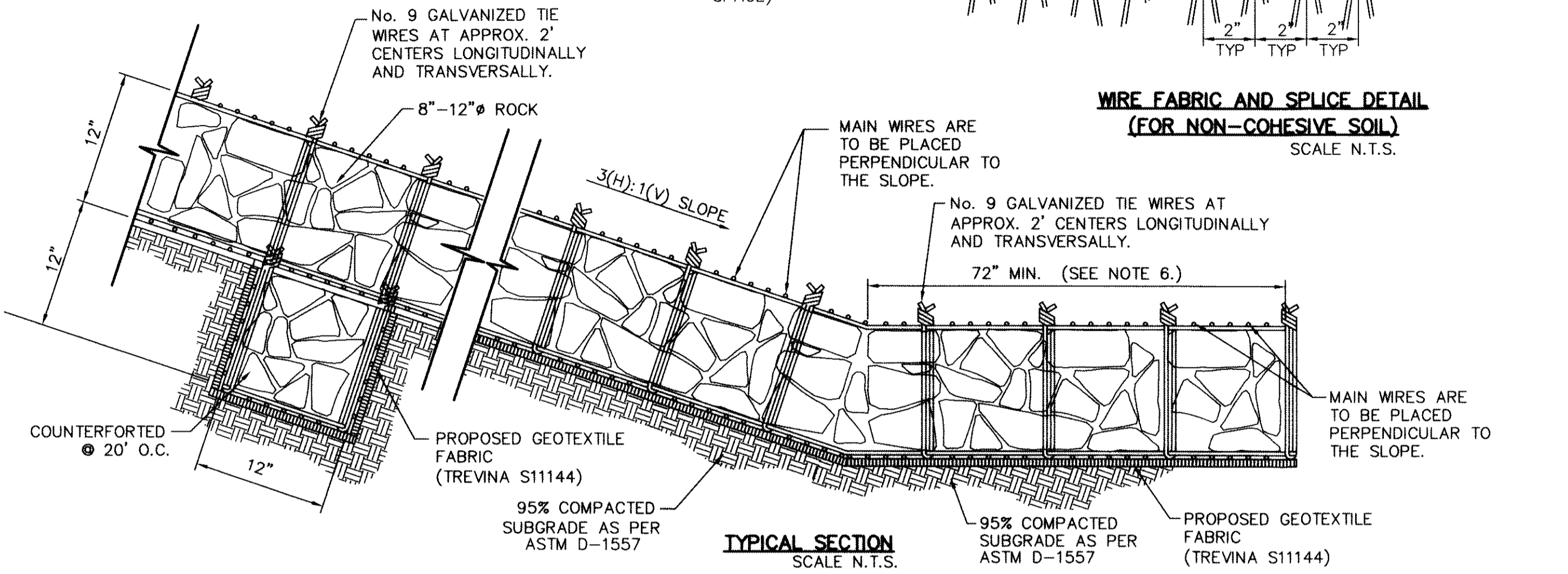
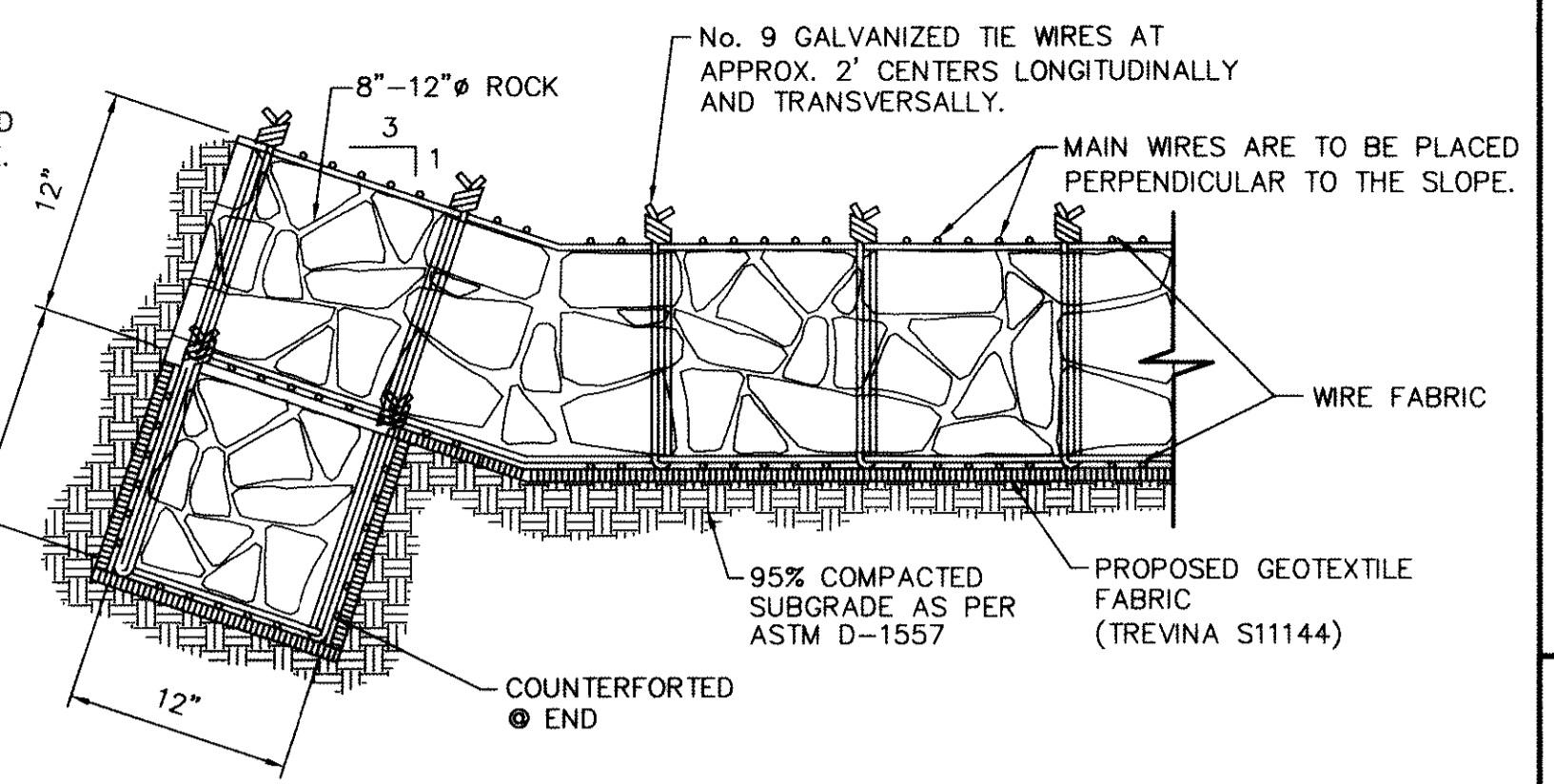
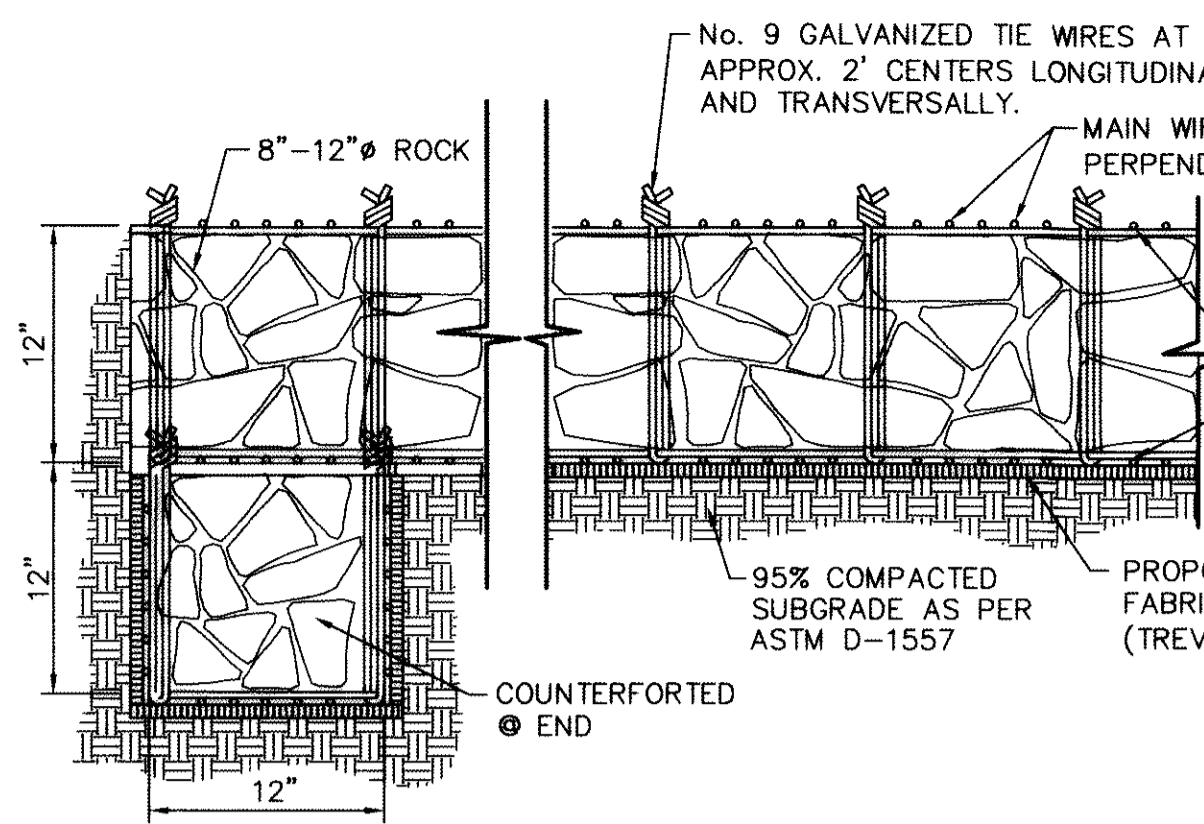
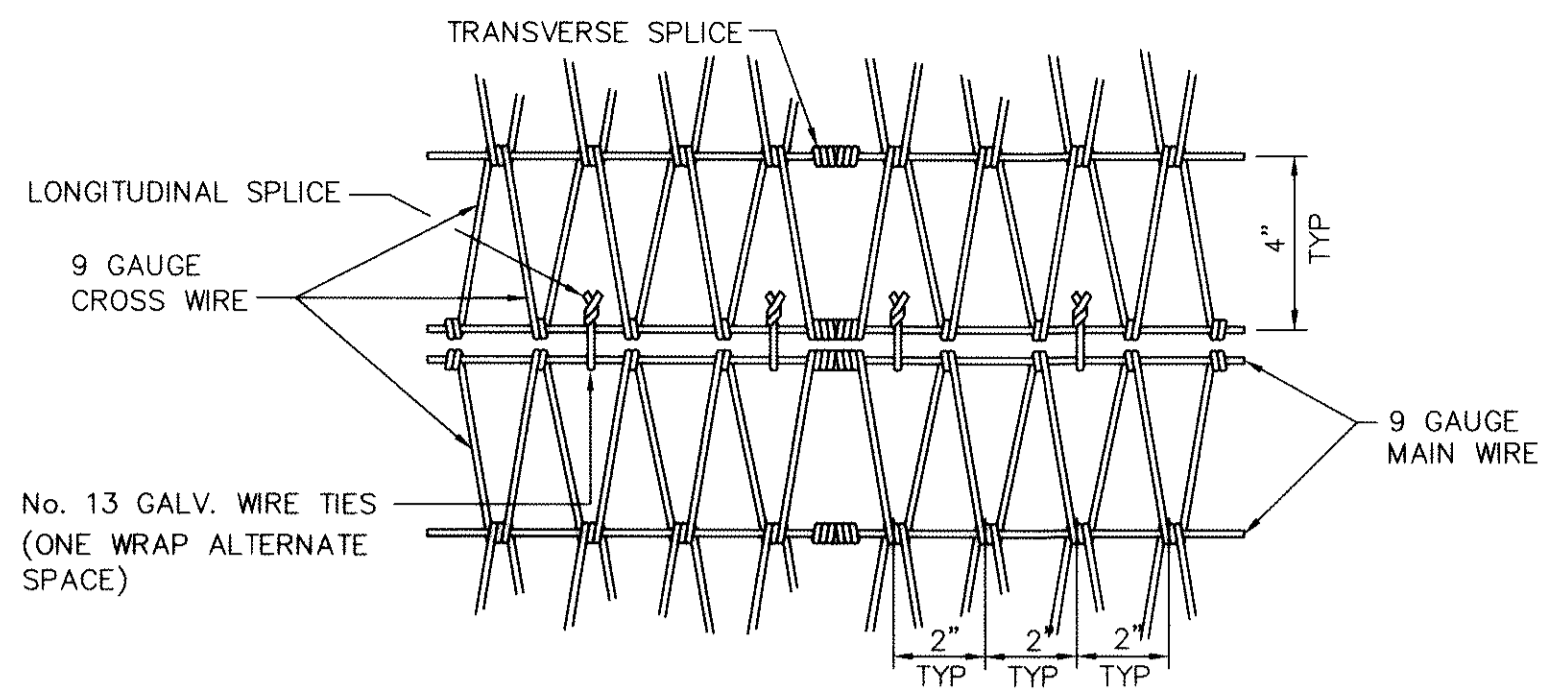
ENGINEER'S SEAL
 CEA GROUP, INC.
 ENGINEERS • ARCHITECTS • PLANNERS
 Caster Center @ Transmountain
 4712 Woodrow Bean, Ste. F El Paso, TX 79924
 Office: 915.762.8800
 TEXAS PROFESSIONAL REGISTRATION NO. 1684

SCALE: AS SHOWN
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: J.M.
 CHECKED BY: J.L.A.
 APPROVED BY: A.H.
 JOB NO. 2010-013-LD

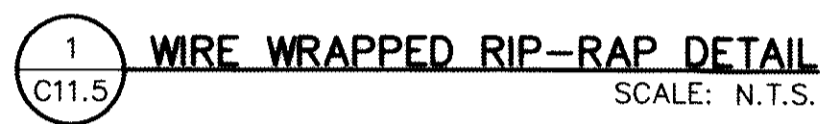
PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
DRAINAGE DETAILS
 (SHEET 4 OF 10)
 SHEET NO.
C11.4

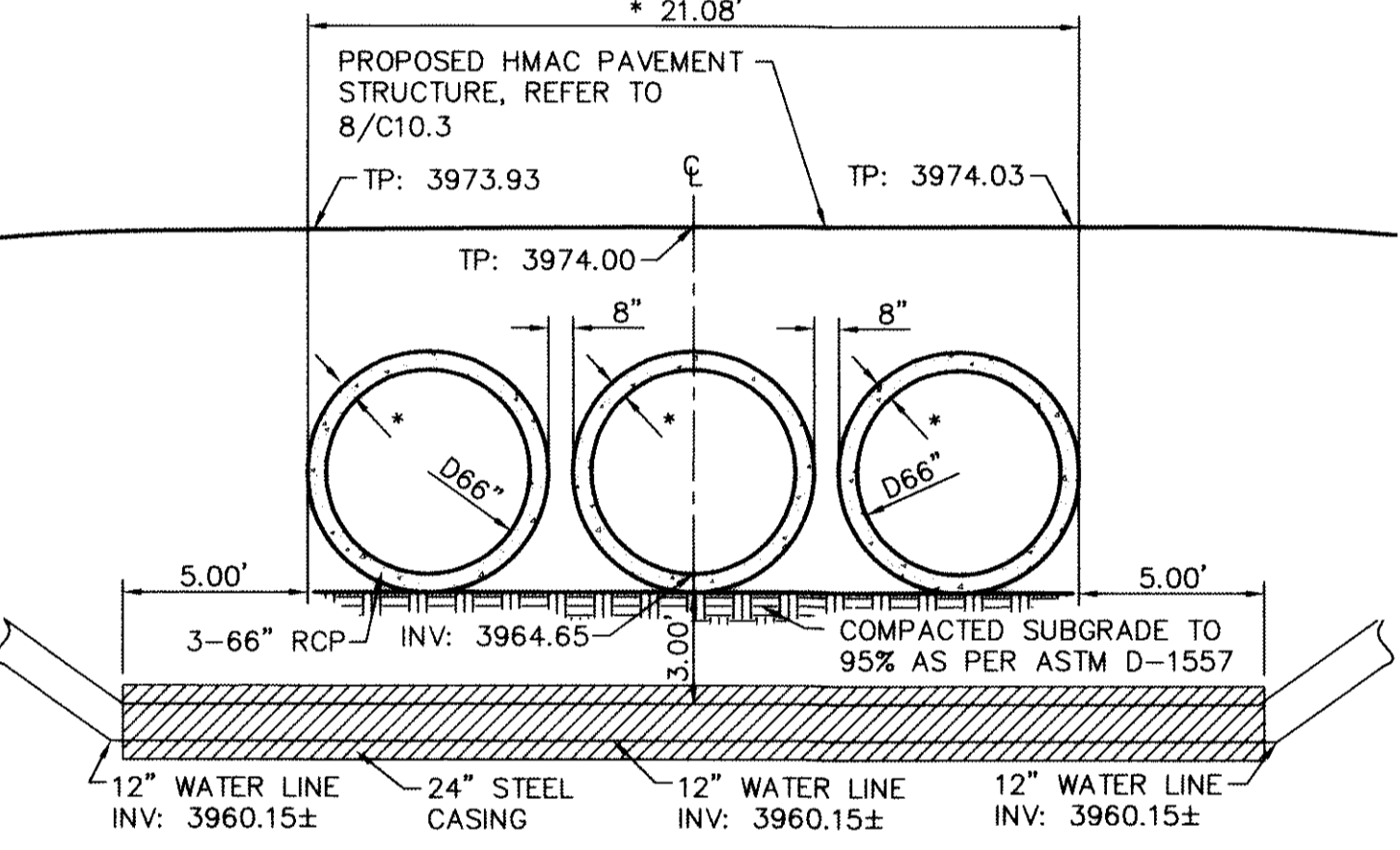
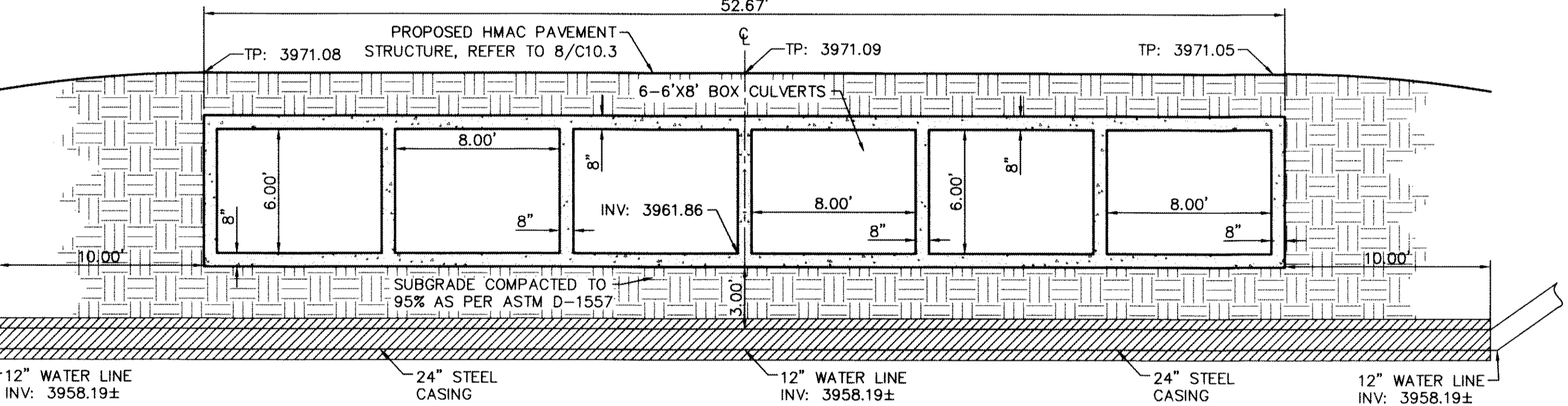
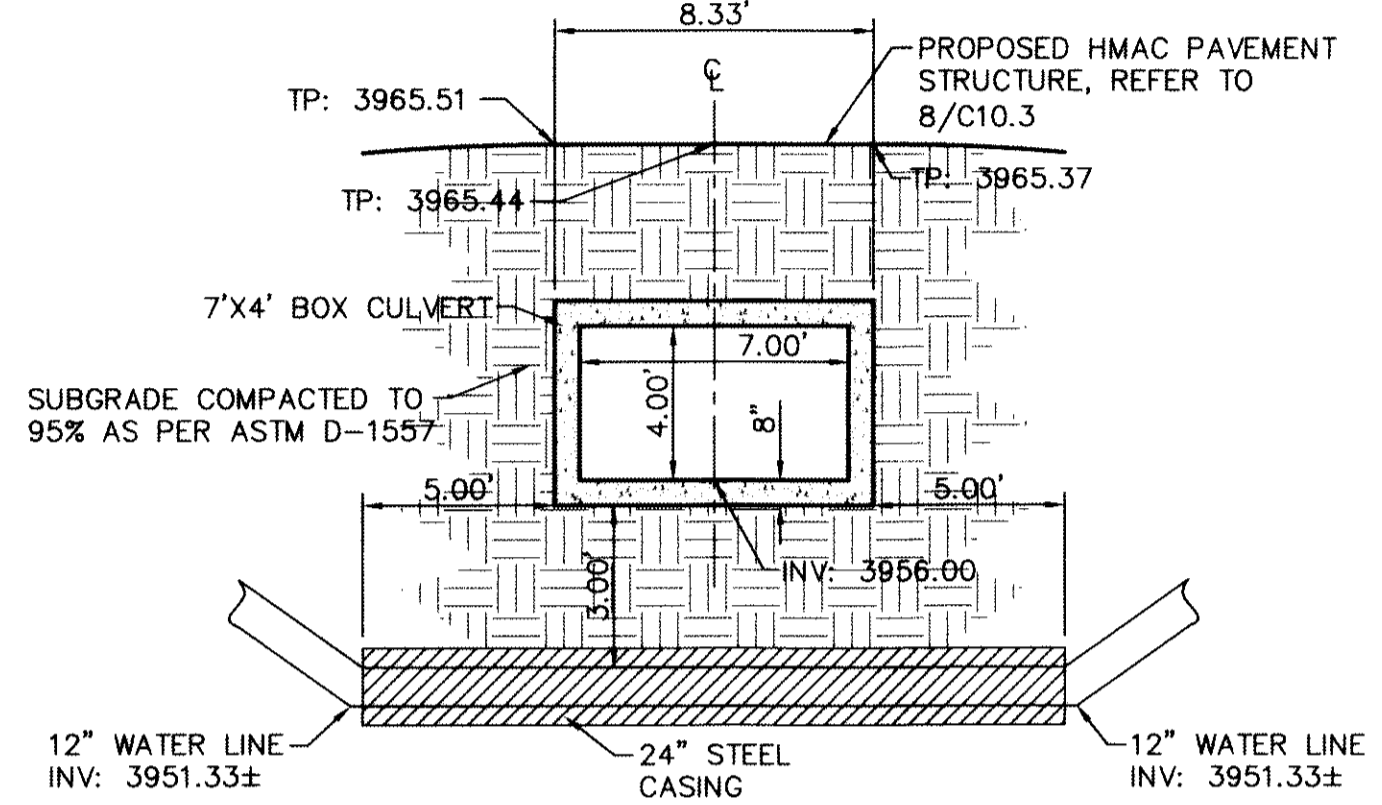
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- NOTE:**
1. WIRE WRAPPED RIP RAP SHALL BE UTILIZED OR OTHER APPLICATION AS APPROVED EQUAL.
 2. COUNTERFORT TO BE PLACED @ THE BEGINNING AND END OF RIP RAP.
 3. COUNTERFORT SPACING SHALL BE AS SPECIFIED OR AS PER MANUFACTURER'S RECOMMENDATION, WHICHEVER IS CLOSER.
 4. SUBGRADE TO BE COMPACTED TO NINETY-FIVE (95%) PERCENT AS PER ASTM D1557.
 5. ANCHOR STAKES SHALL BE INSTALLED AND THE STAKING SHALL BE AS PER MANUFACTURER'S RECOMMENDATION.
 6. THIS IS THE MINIMUM LENGTH TO BE PLACED AT THE BOTTOM OF THE CHANNEL WHEN LEAVING NATURAL GROUND UNDISTURBED, UNLESS BOTTOM OF CHANNEL IS ALSO PROTECTED. REFER TO PLANS FOR MORE INFORMATION ON CROSS SECTIONS AND LIMITS.



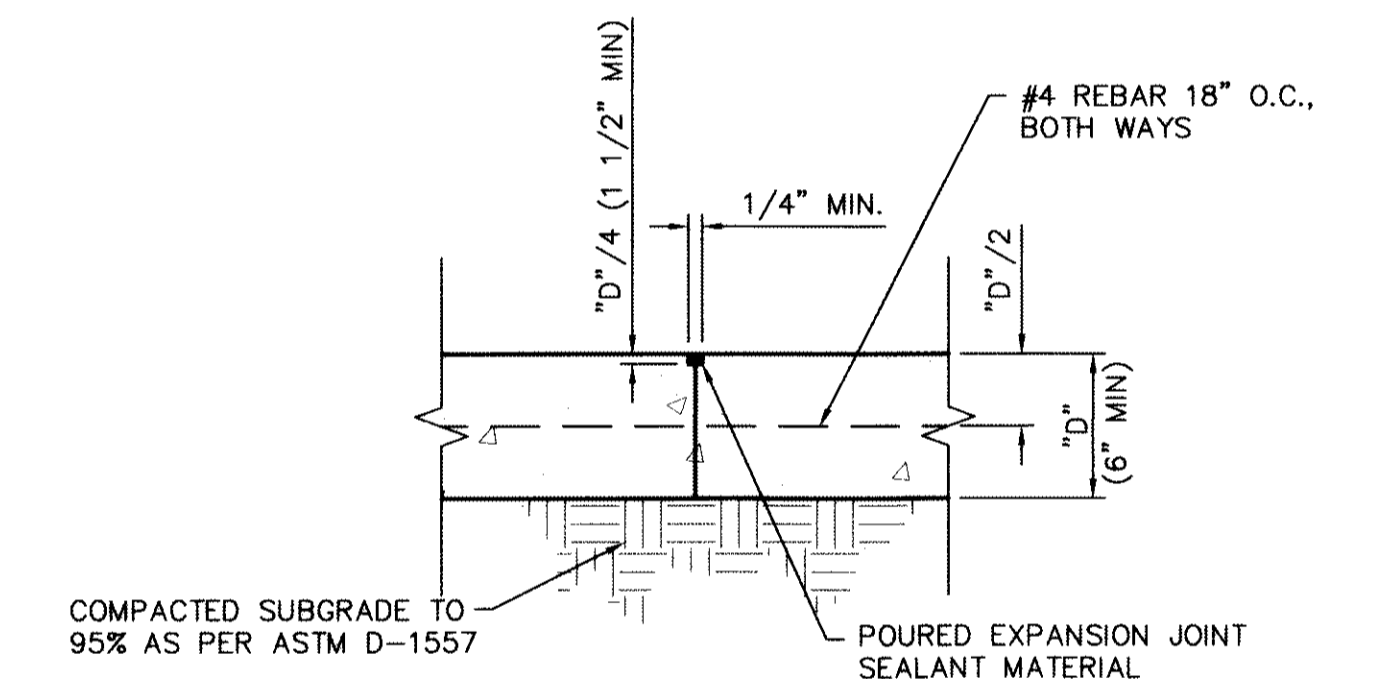
SECTION WITH 3(H):1(V) SLOPE AT OUTLET STRUCTURES
 SCALE N.T.S.



WATER LINE CROSSING AT 7'X4' BOX CULVERT
 SCALE: 1" = 5'-0"

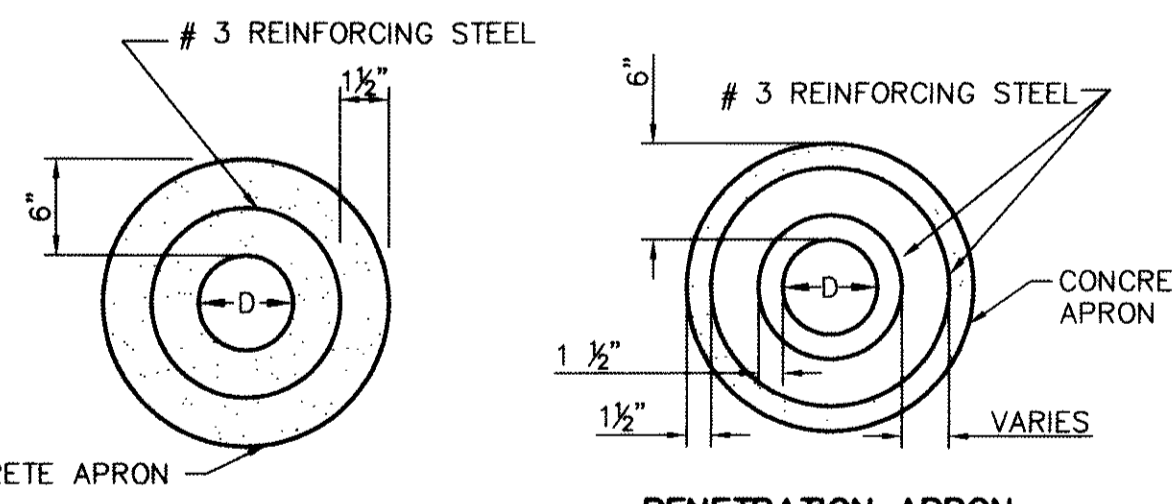
- NOTE:**
 * ACTUAL DIMENSION VARIES WITH ACTUAL THICKNESS OF THE PIPE AND ITS ORIENTATION.

WATER LINE CROSSING AT 66" RCP'S
 SCALE: 1" = 5'-0"



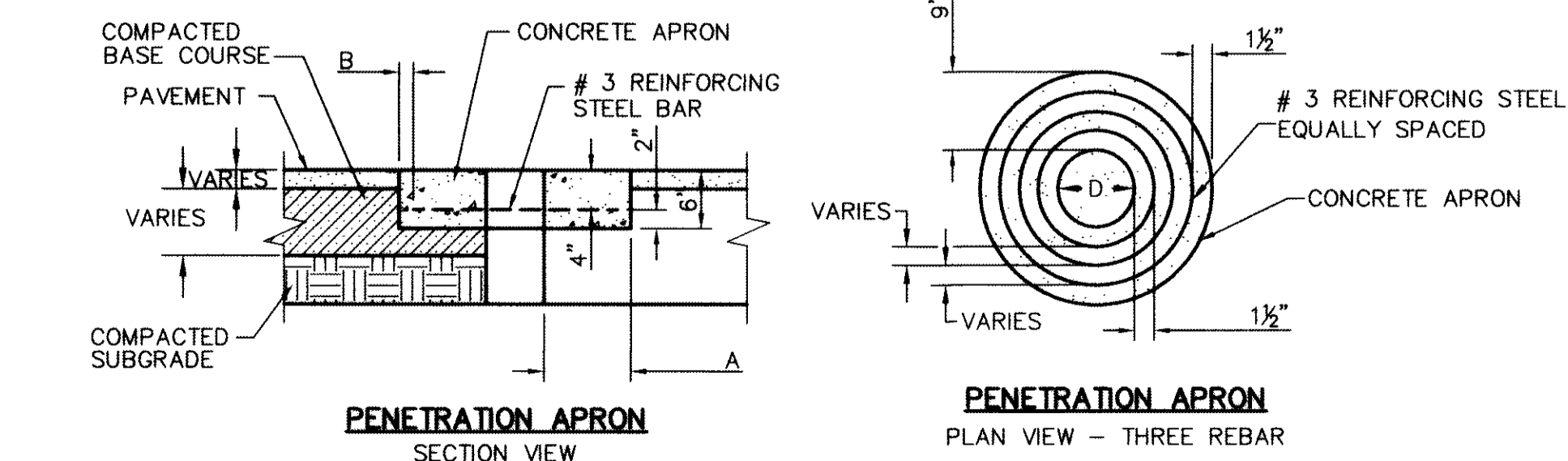
CONTRACTION JOINT AT 25' O.C. DETAIL
 SCALE: N.T.S.

| CONCRETE APRON FOR CIRCULAR PENETRATIONS IN ASPHALT PAVEMENTS | | | | |
|---|---|---|---|---|
| "D" DIAMETER OF PENETRATION (INCHES) | "A" CONCRETE HORIZONTAL DIMENSION FROM PENETRATION (INCHES) | NUMBER OF NO. 3 REINFORCING STEEL BARS (INCHES) | "B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE APRON TO CENTER OF NEAREST REBAR (INCHES) | "C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR (INCHES) |
| 0 TO 6.01 | 6 | 1 | 1 1/2 | 1 1/2 |
| 6.01 TO 18.01 | 8 | 2 | 1 1/2 | 1 1/2 |
| 18.01 AND OVER | 12 | 3 | 1 1/2 | 1 1/2 |

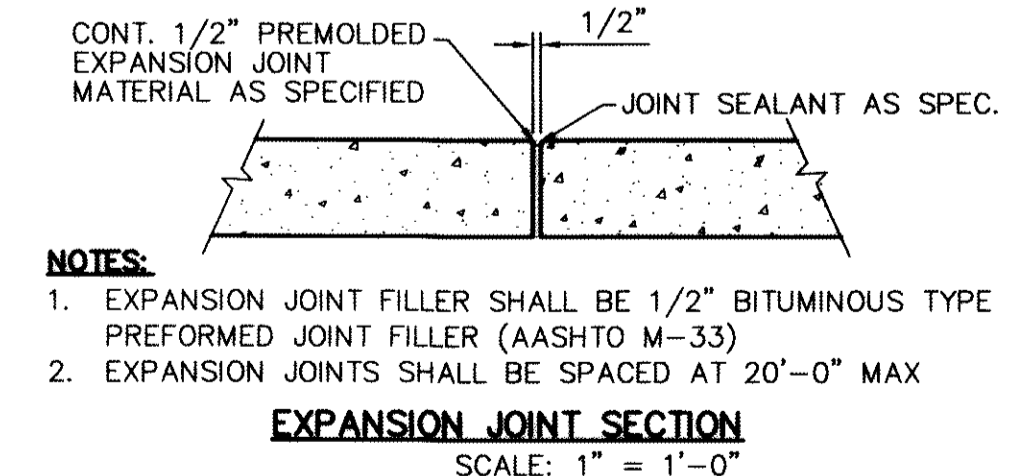
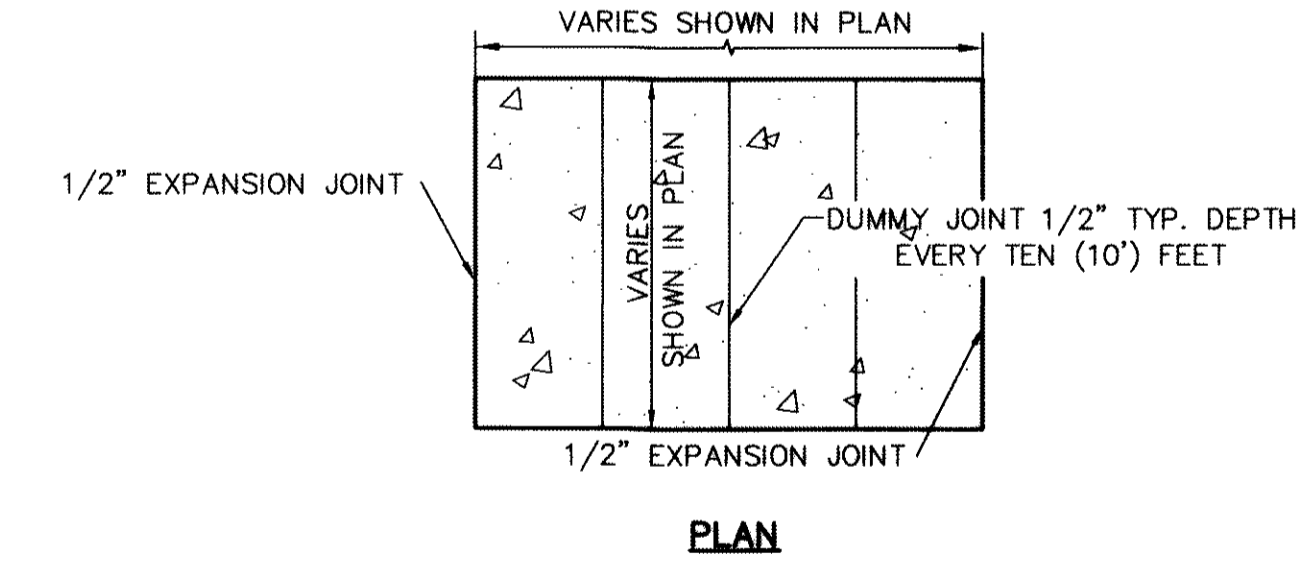


- CONSTRUCTION NOTES:**
1. ANY DISTURBED SUBGRADE UNDER THE CONCRETE APRON SHALL BE COMPACTED TO 95± DENSITY ± 3± OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
 2. ANY DISTURBED COARSE UNDER THE CONCRETE APRON SHALL BE COMPACTED TO 100% DENSITY ± 2% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
 3. PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL.
 4. REINFORCING SHALL MEET ASTM C-478 AND TRAFFIC LOADING (HS-20).
 5. NO. 3 REINFORCING STEEL HOOPS SHALL BE SPACED EQUALLY.

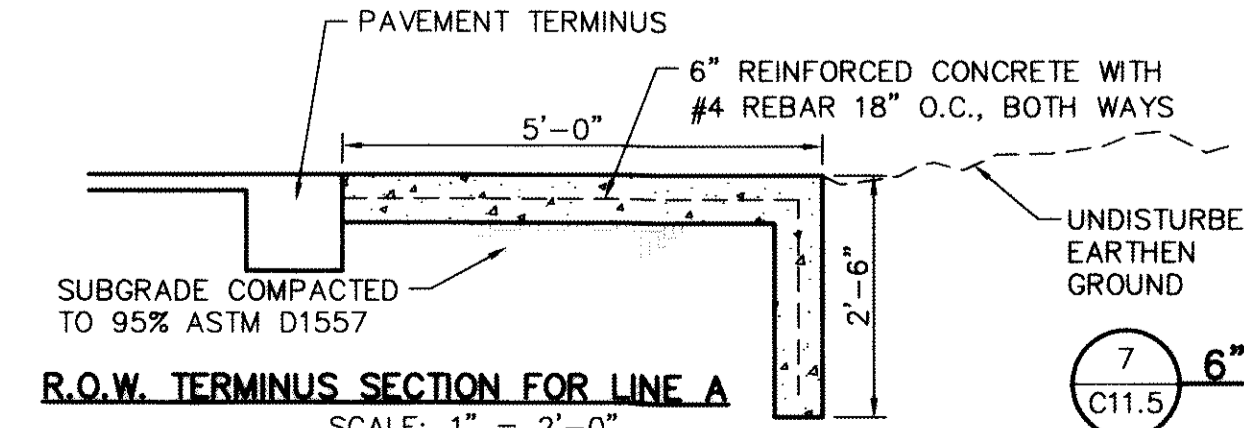
- GENERAL NOTES:**
1. THE PENETRATION APRON SHOULD BE CAST IN-PLACE CONCRETE. (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 P.S.I. HIGH EARLY CONCRETE IS REQUIRED)
 2. TOPS OF PENETRATION APRON SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE CITY ENGINEER.



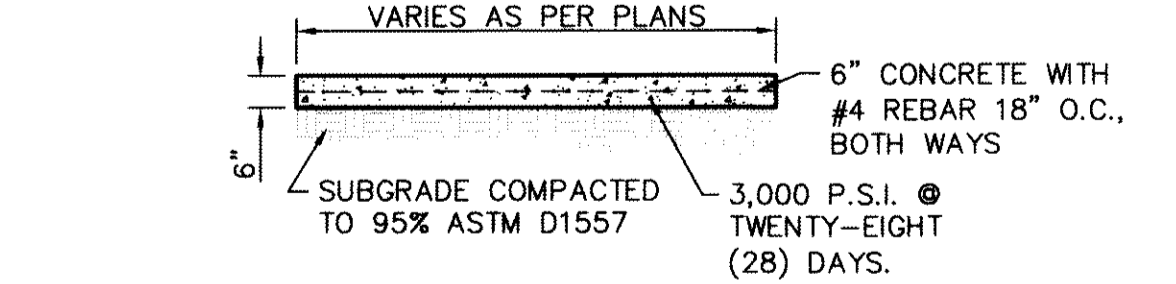
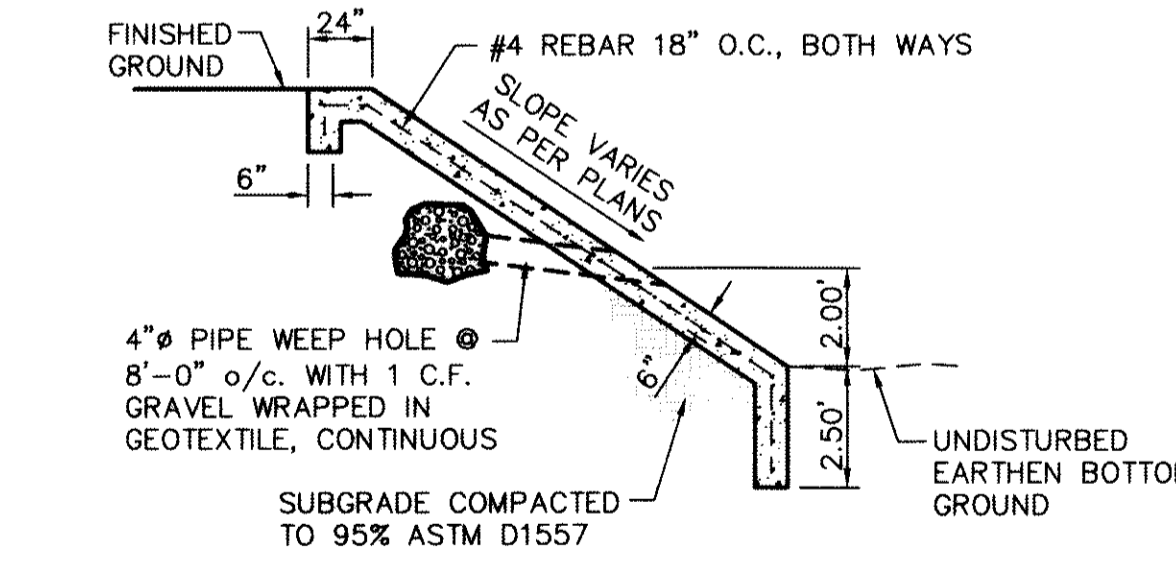
PENETRATION APRON
 SCALE: N.T.S.



- 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



R.O.W. TERMINUS SECTION FOR LINE A
 SCALE: 1" = 2'-0"

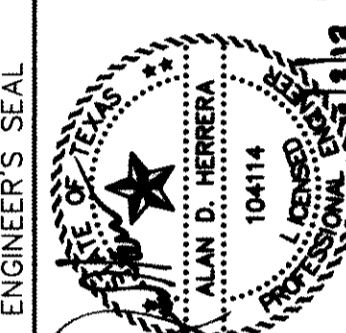


- CONCRETE NOTES:**
1. CONCRETE SHALL BE 3,000 P.S.I. @ TWENTY-EIGHT (28) DAYS.
 2. DUMMY JOINTS REQUIRED AT TEN (10') FEET ON CENTER.
 3. EXPANSION JOINTS SHALL BE AT 40' O.C. MAXIMUM, USE 1/2" PREFORMED BITUMINOUS EXPANSION JOINTS (AASHTO M-33)
 4. EXPANSION JOINT FILLER SHALL BE PLACED WHEREVER CONCRETE ABUTS ROCK OR CONCRETE STRUCTURES.
 5. SUBGRADE TO BE COMPACTED TO NINETY-FIVE (95%) PERCENT AS PER ASTM D1557.

6" CONCRETE SLAB
 SCALE: 1" = 2'-0"

REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3946.11 (NAD 83 DATUM)
 3946.78 (NGVD 29 DATUM)
 BE TO THE POINT OF INTERSECTION OF THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY NO. 239
 DATE: _____ BY: _____

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 TEXAS PROFESSIONAL REGISTRATION NO. 4864

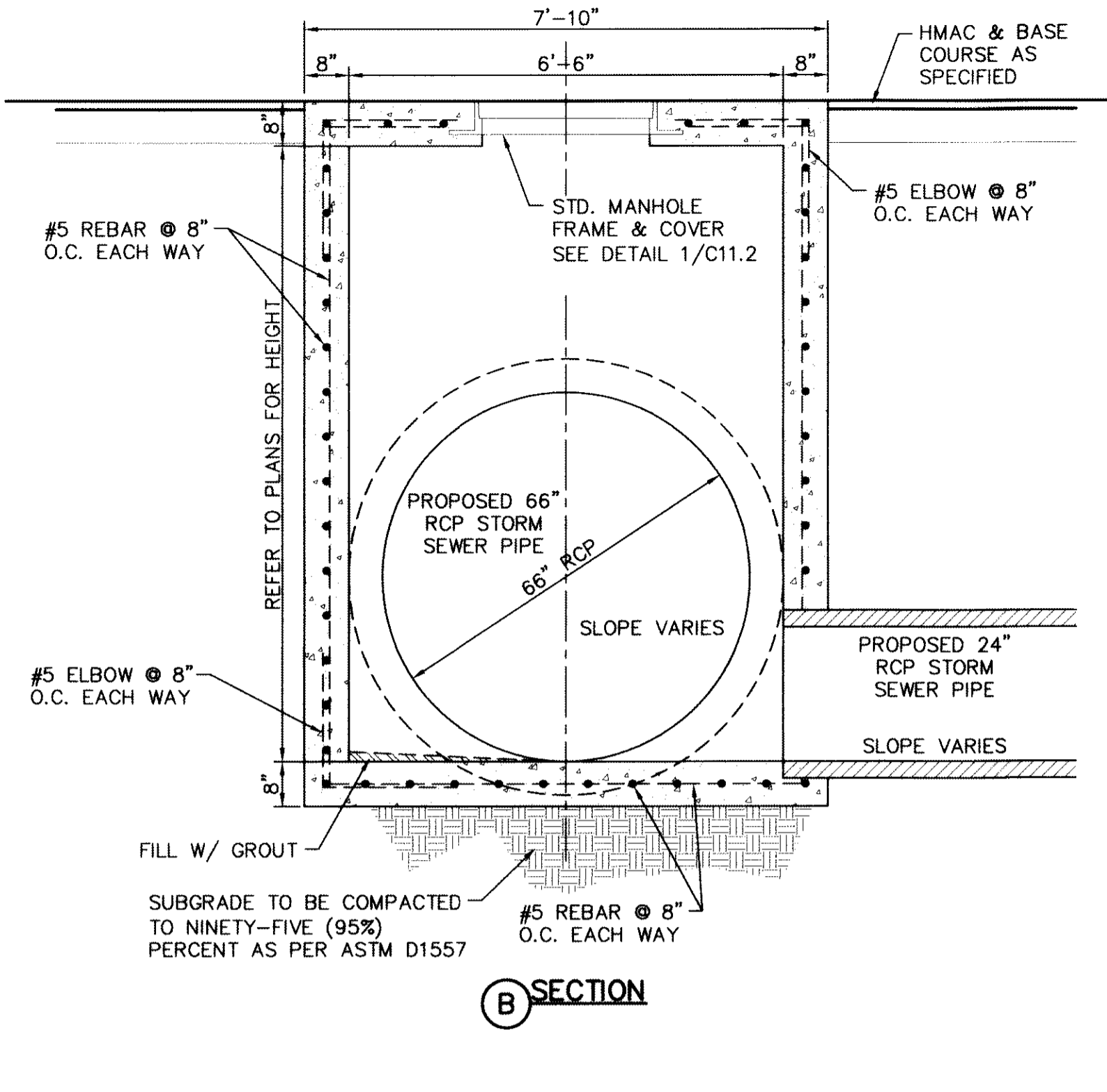
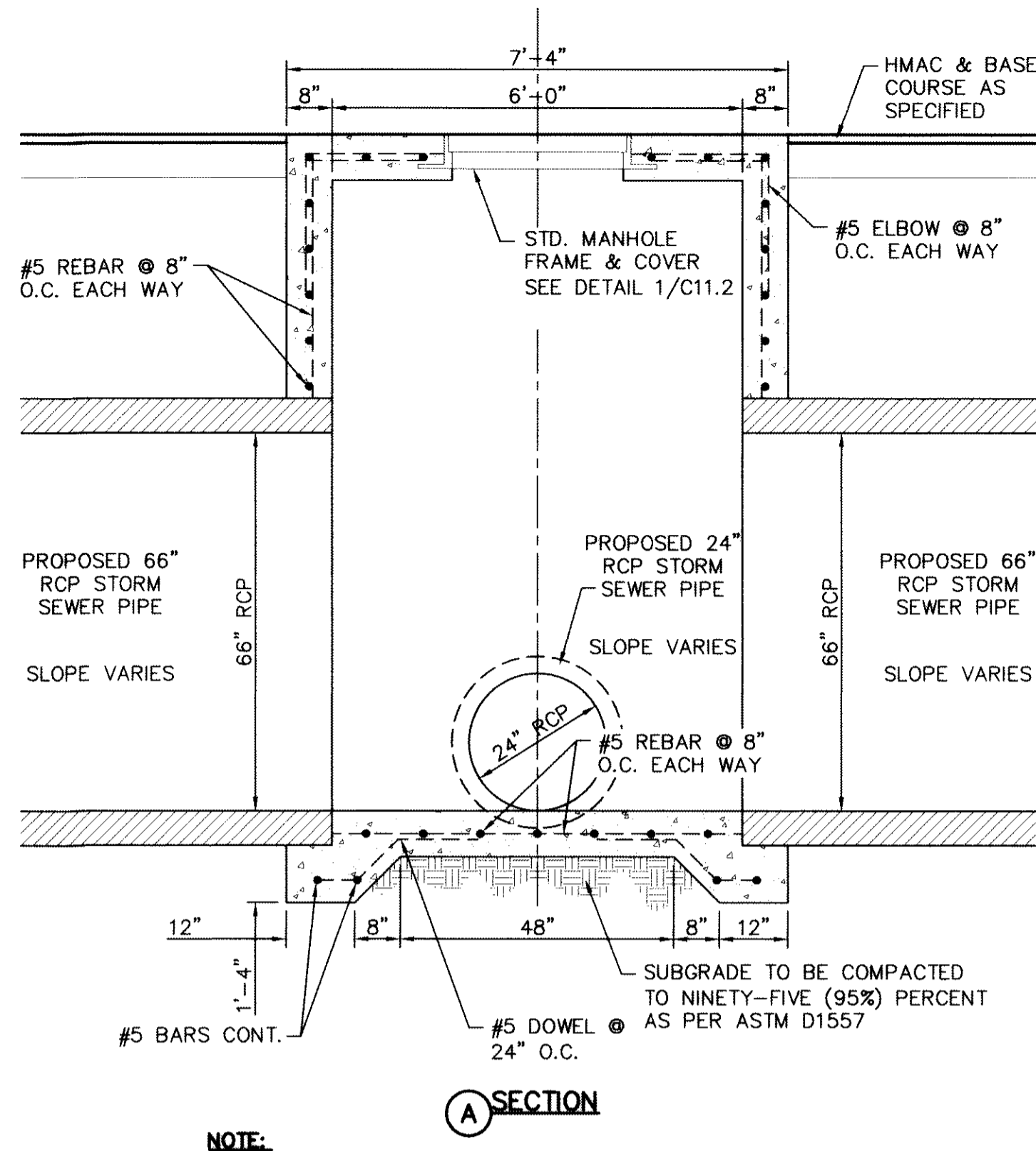
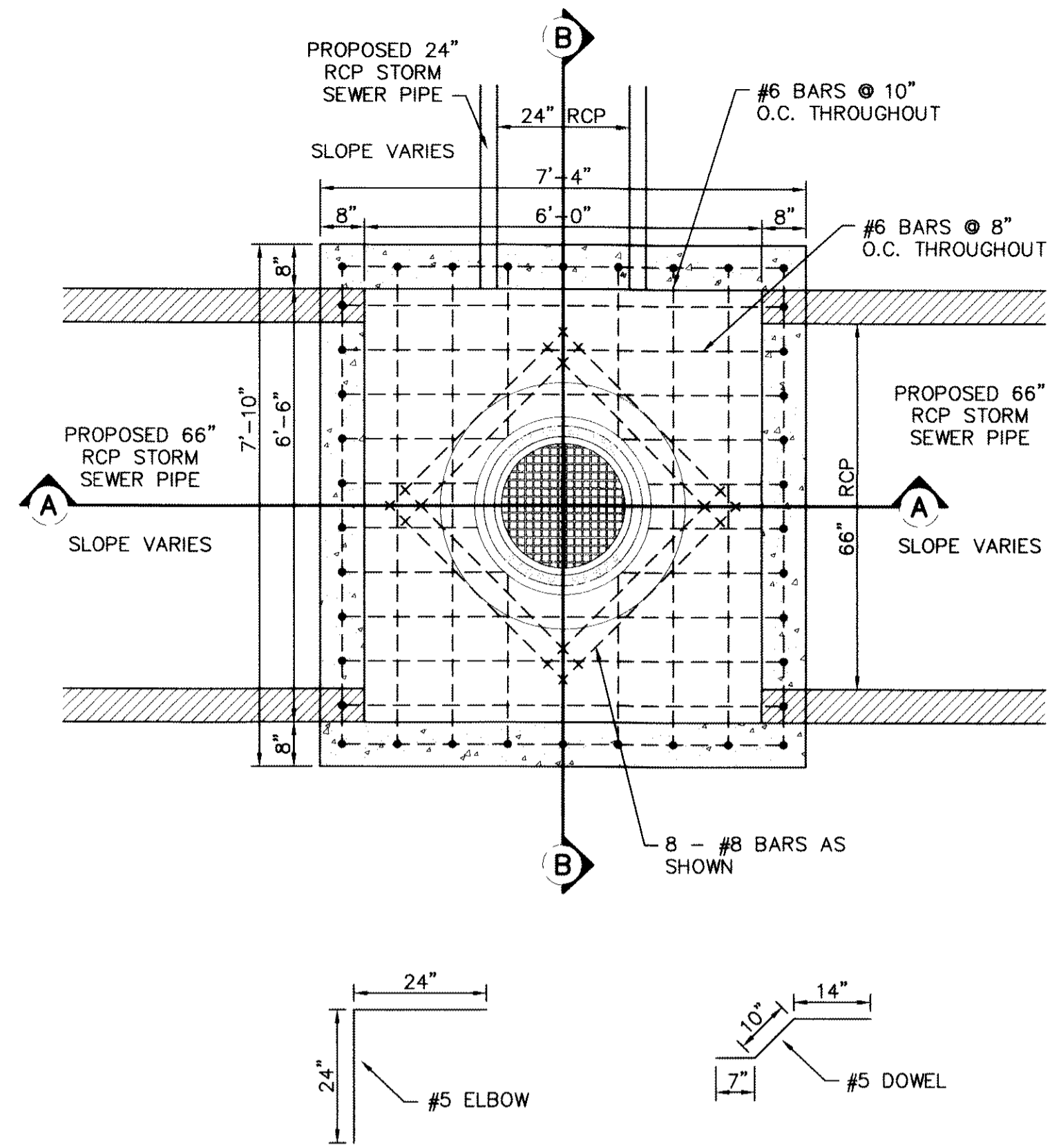


SCALE: As SHOWN
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: ALH
CHECKED BY: JVA
APP'D. BY: ALH
JOB NO.: 2010-013-LD

PROJECT TITLE
DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

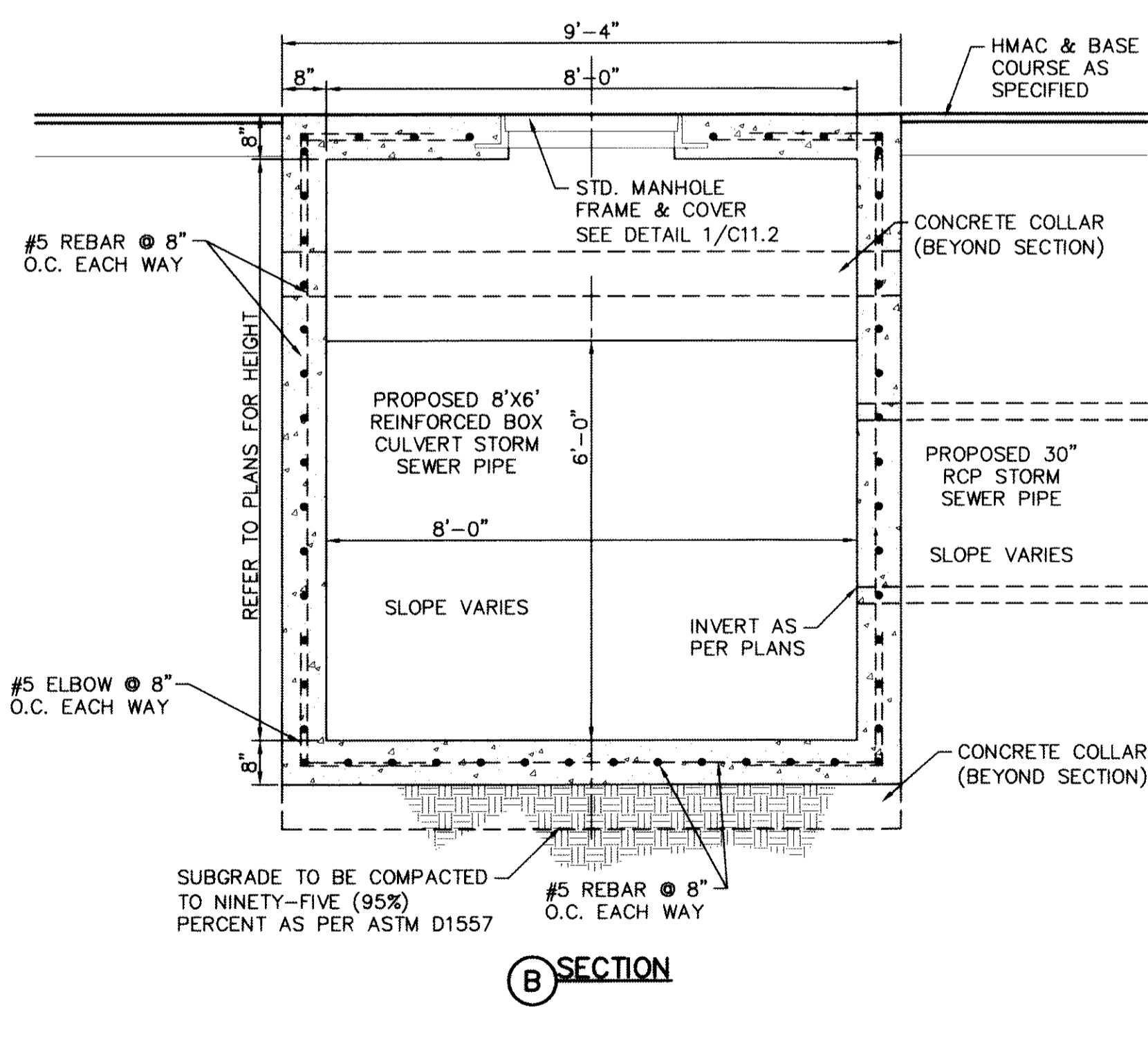
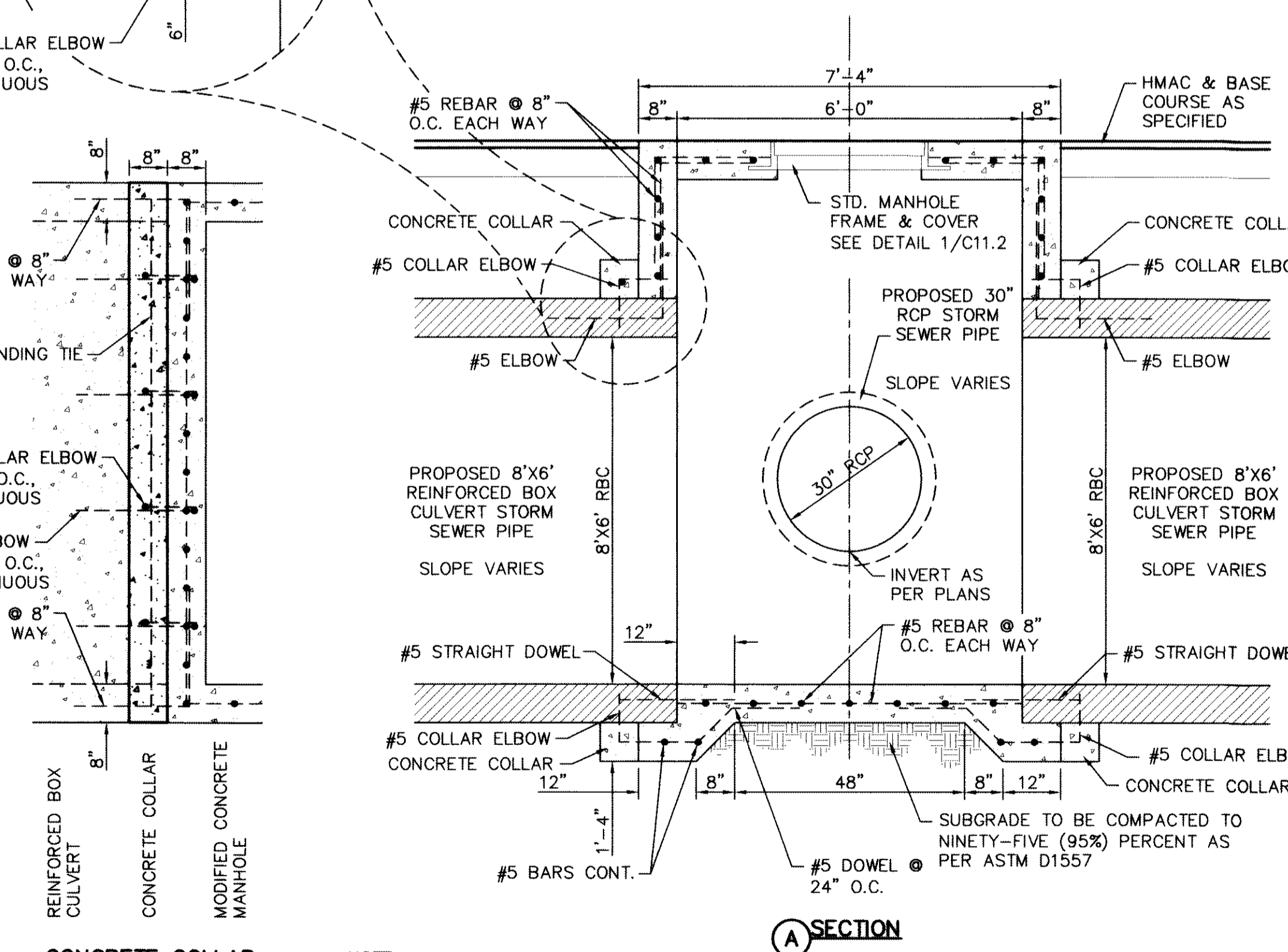
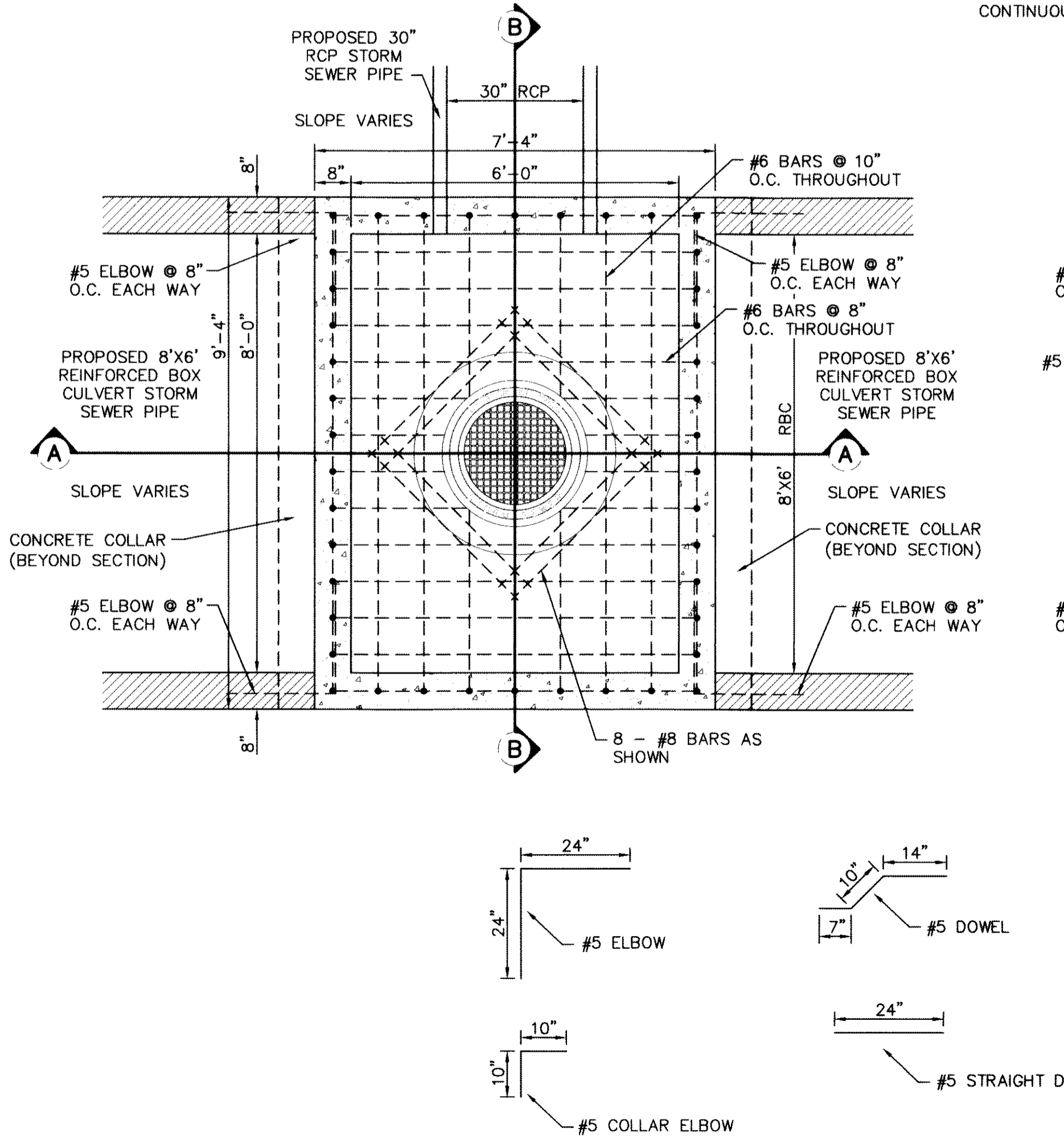
SHEET TITLE
DRAINAGE DETAILS
(SHEET 5 OF 10)
SHEET NO.

C11.5



- NOTE:**
1. ALL REINFORCING BARS SHALL HAVE A MINIMUM OF 3-INCHES OF COVER WHEN ABUTTING EARTHEN MATERIAL.
 2. ALL CONCRETE SHALL HAVE 3,000 P.S.I. (MIN.) AT TWENTY-EIGHT (28) DAYS
 3. NINETY-FIVE (95%) PERCENT COMPACTION AS PER ASTM D-1557 UNDER ALL CONCRETE STRUCTURES.
 4. REINFORCED STEEL SHALL BE DEFORMED AND HAVE A MINIMUM OF GRADE 40.
 5. STRUCTURE SHALL BE DESIGNED FOR HS-20 LOADING.
 6. IN NO MEANS IS THIS ATTEMPTING OR IMPLYING ON HOW TO CONSTRUCT ITEMS, BUT WHENEVER NEEDED A MONOLITHIC POUR MAY BE REQUIRED.

1 REINFORCED MODIFIED CAST-IN-PLACE CONCRETE MANHOLE 2
SCALE: 1" = 2'-0"



- NOTE:**
1. ALL REINFORCING BARS SHALL HAVE A MINIMUM OF 3-INCHES OF COVER WHEN ABUTTING EARTHEN MATERIAL.
 2. ALL CONCRETE SHALL HAVE 3,000 P.S.I. (MIN.) AT TWENTY-EIGHT (28) DAYS
 3. NINETY-FIVE (95%) PERCENT COMPACTION AS PER ASTM D-1557 UNDER ALL CONCRETE STRUCTURES.
 4. REINFORCED STEEL SHALL BE DEFORMED AND HAVE A MINIMUM OF GRADE 40.
 5. STRUCTURE SHALL BE DESIGNED FOR HS-20 LOADING.
 6. IN NO MEANS IS THIS ATTEMPTING OR IMPLYING ON HOW TO CONSTRUCT ITEMS, BUT WHENEVER NEEDED A MONOLITHIC POUR MAY BE REQUIRED.

2 REINFORCED MODIFIED CAST-IN-PLACE CONCRETE MANHOLE 3
SCALE: 1" = 2'-0"

REFERENCES - BENCHMARKS

FOUND N.G.S. SURVEY STATION "1100 1981" ELEVATION: 3946.1 (NAVD 88 DATUM) SHOWN BY CITY OF EL PASO METEOROLOGICAL DIVISION

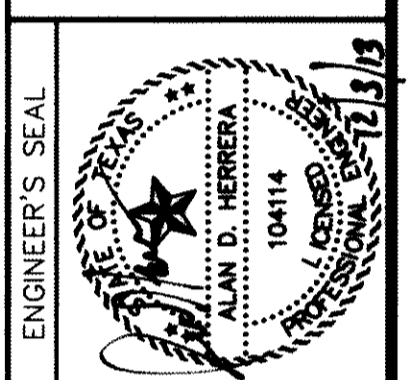
BE TO THE PROJECT BENCH MARK IS LOCATED 29 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. WINDY SURVEY No. 239

DATE: _____ REVISIONS: _____ BY: _____

cea

engineers • architects • planners

Caster Center @ Transmountain
4712 Woodrow Ben. Ste. F El Paso, TX 79924
Office 915.763.1111
Texas P.E. Registration No. 494



SCALE

Horizontal: As Shown
Vertical: N/A

DATE: JUNE 2012

DESIGN BY: A.H.
DRAWN BY: J.L.A.
CHKD. BY: J.L.A.
APP'D. BY: A.H.

JOB No. 2050-013-LD

PROJECT TITLE

**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

**DRAINAGE
DETAILS**

(SHEET 6 OF 10)

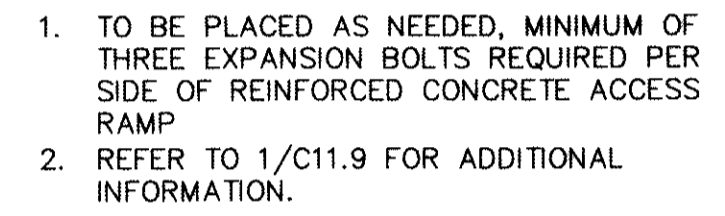
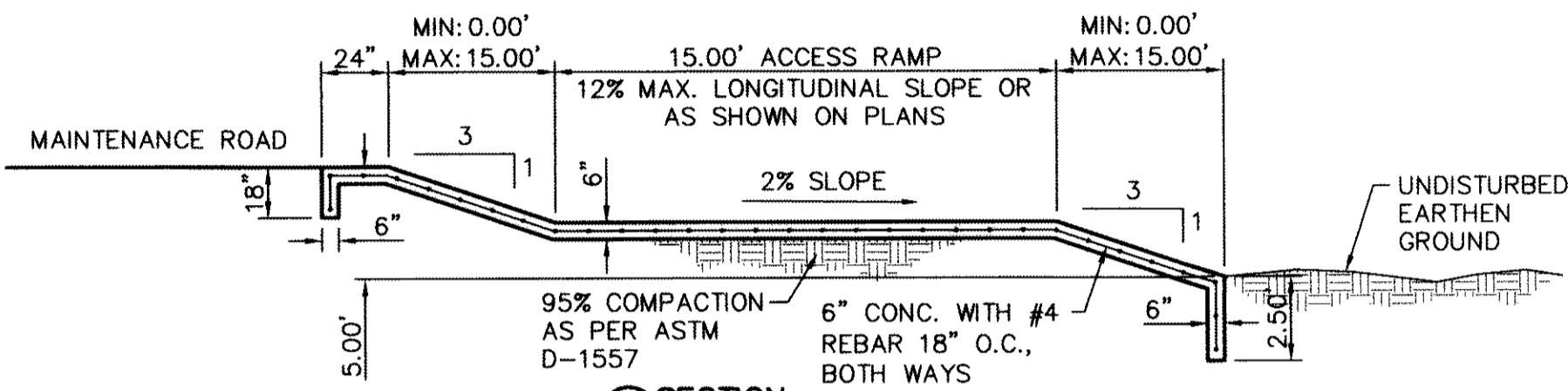
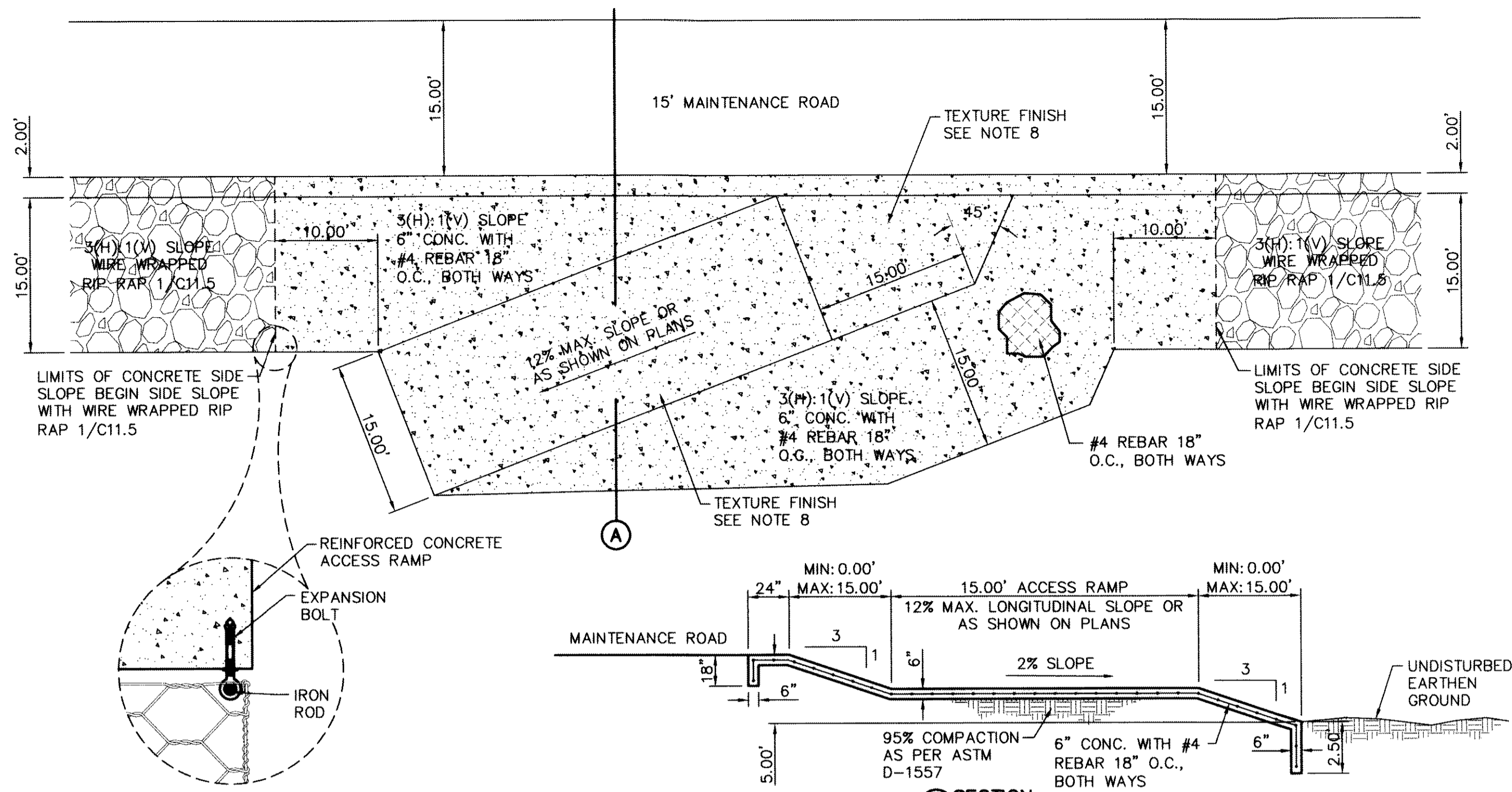
SHEET NO.

RECORD DRAWINGS

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10/24/2013

C11.6

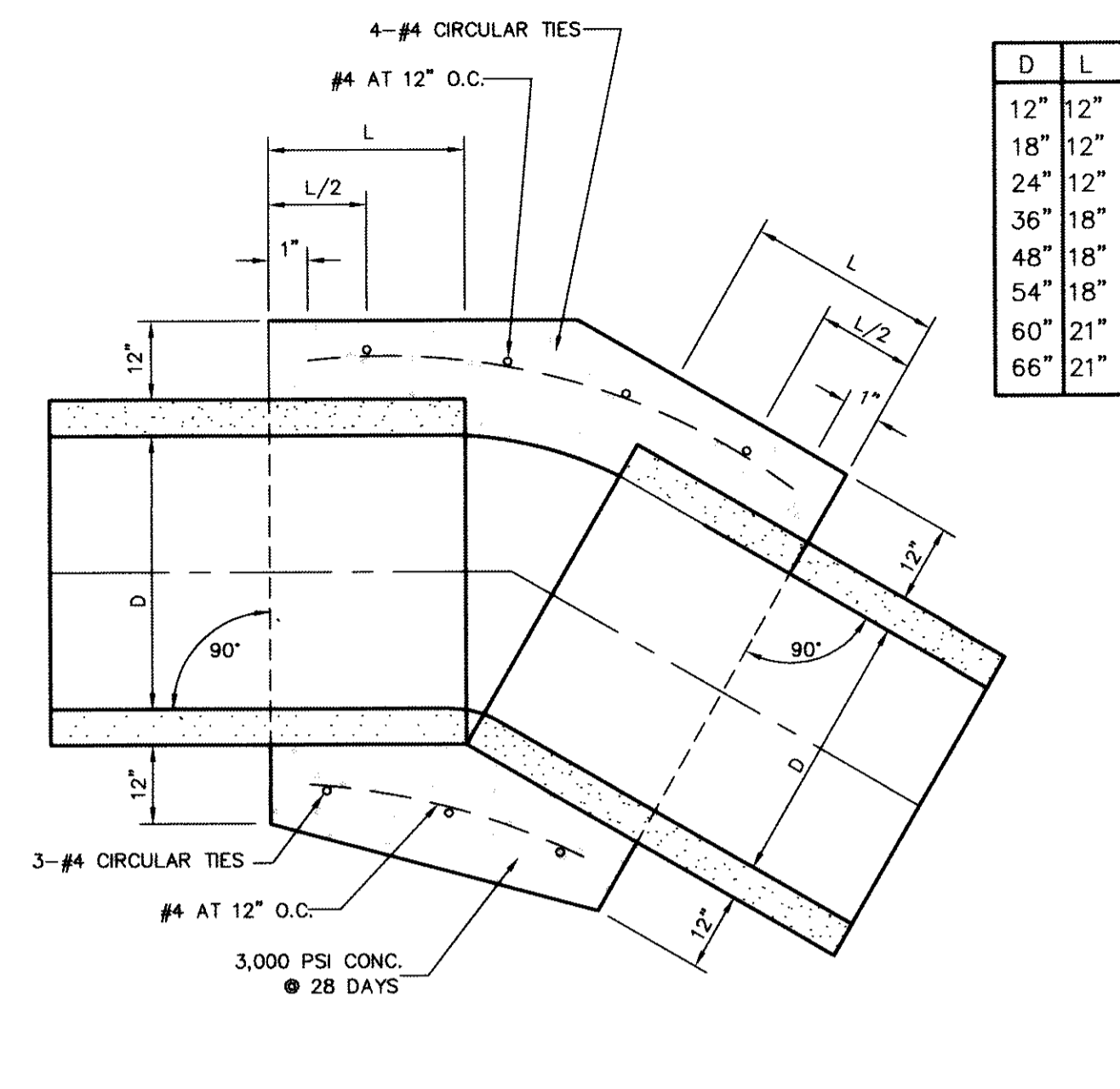


- TO BE PLACED AS NEEDED, MINIMUM OF THREE EXPANSION BOLTS REQUIRED PER SIDE OF REINFORCED CONCRETE ACCESS RAMP.
- REFER TO 1/C11.9 FOR ADDITIONAL INFORMATION.

ACCESS RAMP NOTES:

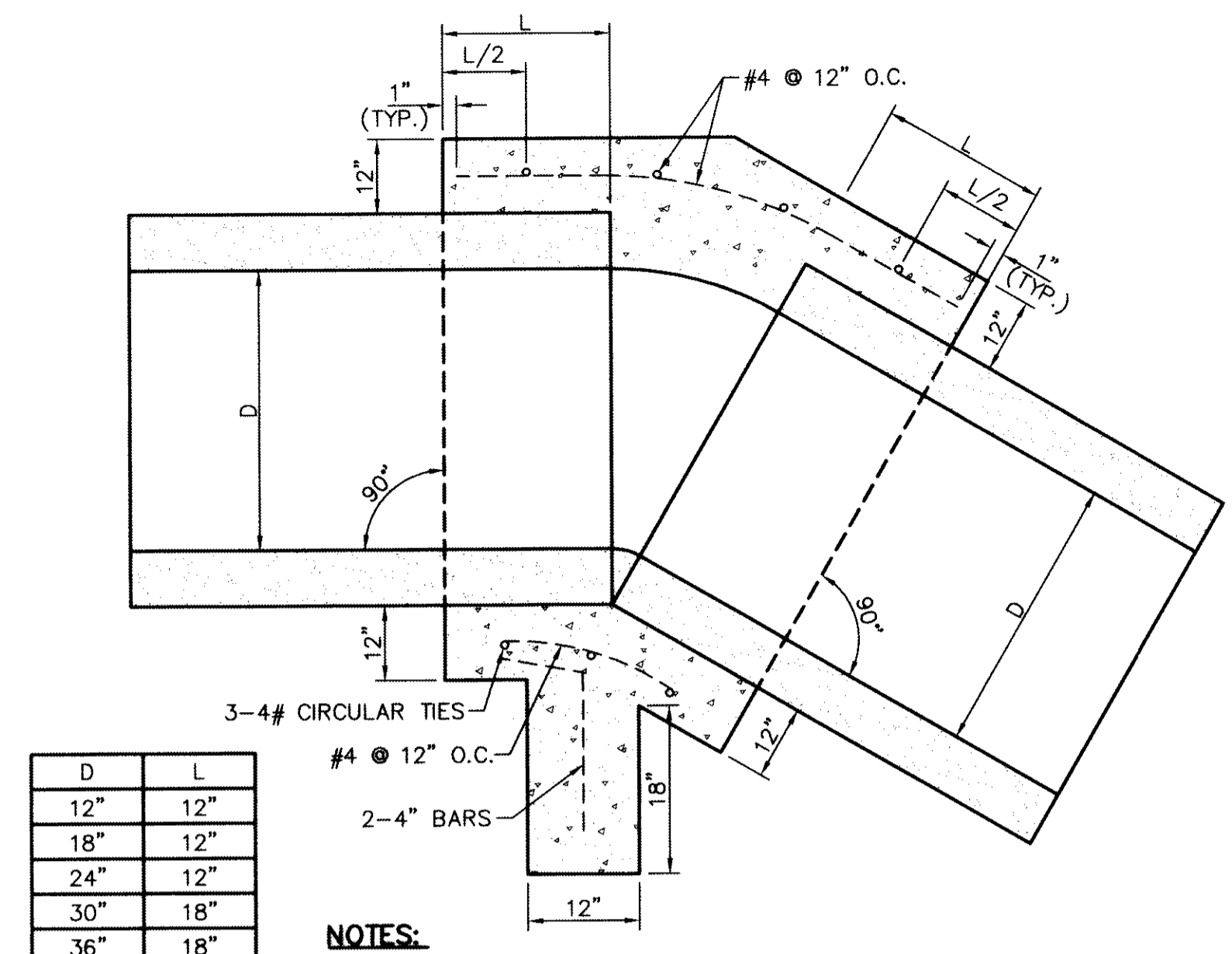
- ALL CONCRETE SHALL HAVE 3,000 PSI MIN. @ TWENTY-EIGHT (28) DAYS.
- REINFORCED STEEL SHALL BE A MINIMUM OF GRADE 40.
- 1/2" PREMOLDED BITUMINOUS EXPANSION JOINT (AASHTO M-33) IS REQUIRED AS SHOWN. TRIM BITUMINOUS MATERIAL 1/4" LESS THAN NEAT DIMENSION.
- DUMMY JOINTS REQUIRED AT FIFTEEN (15) FEET O.C.
- REFER TO 2/C11.3 & 5/C11.3. FOR ADDITIONAL INFORMATION ON CHANNEL CONSTRUCTION.
- REINFORCEMENT (#4 REBAR 18" O.C., BOTH WAYS) SHALL BE PLACED IN ACCESS RAMP.
- SUBGRADE TO BE COMPACTED TO NINETY-FIVE (95%) PERCENT AS PER ASTM D1557.
- A METAL-TYPE TEXTURE FINISH IS REQUIRED TO APPROXIMATELY 3/16 INCHES IN DEPTH TO BE PERPENDICULAR TO TRAFFIC PATH AT THE ACCESS RAMP.

1 ACCESS RAMP DETAIL
SCALE: 1" = 10'



- A CONCRETE PIPE COLLAR IS REQUIRED WHERE PIPES CHANGE IN HORIZONTAL OR VERTICAL ALIGNMENT.
- FOR PIPES 24" OR LESS IN DIAMETER REINFORCE WITH W.W.M.

2 CONCRETE PIPE COLLAR
SCALE: N.T.S.

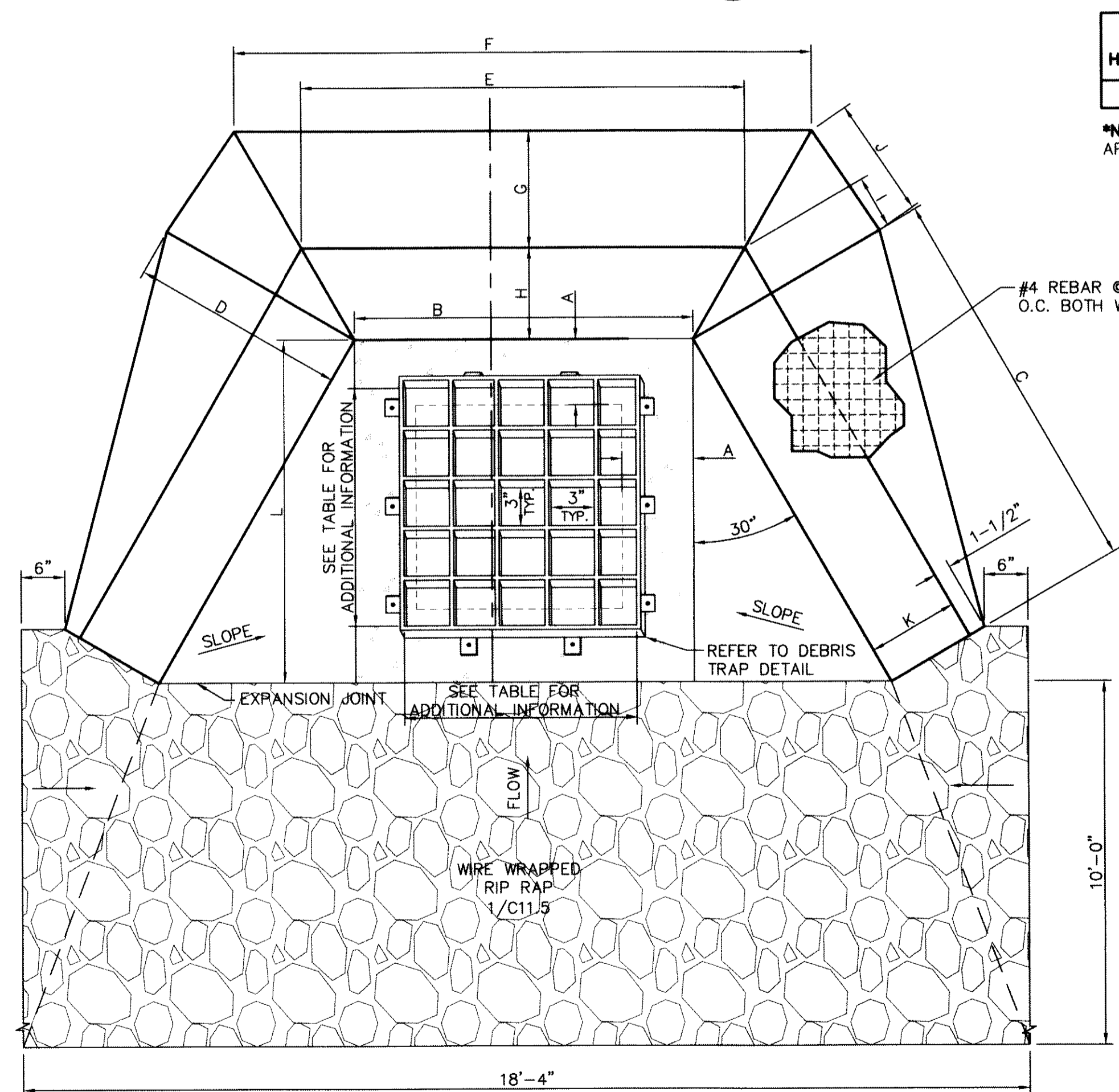


- NOTES:**
- A CONCRETE ANCHOR COLLAR IS REQUIRED AT THE FIRST JOINT UPSTREAM FROM THE THRUST BLOCK OUTLET STRUCTURE.
 - FOR PIPES 24" OR LESS IN DIAMETER, REINFORCE WITH W.W.M.

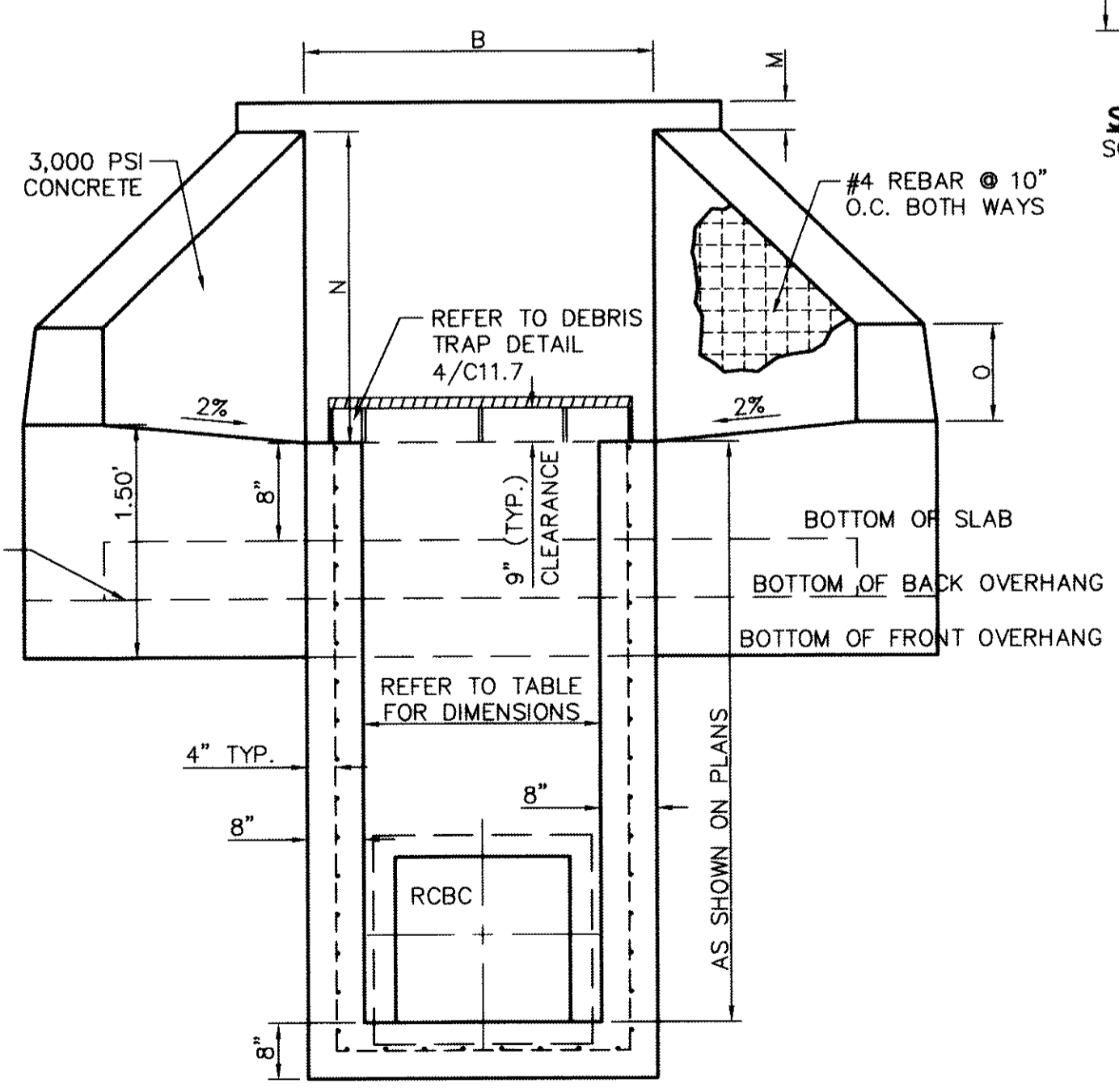
4 CONCRETE ANCHOR COLLAR
SCALE: 3/4" = 1'-0"

| INLET CONCRETE HEADWALL I.D. | SIZE OF REINFORCED BOX CULVERT | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
|------------------------------|--------------------------------|----|------|-----|-----|----------|------|-----|----|------|-----|----|-----|----|-----|-----|
| 1 | 108" X 42" | 8" | 124" | 67" | 19" | 133 1/2" | 146" | 11" | 8" | 4 8" | 11" | 8" | 58" | 3" | 60" | 24" |

*NOTE: APPROXIMATE DISTANCE SHOWN. ACTUAL DISTANCE WILL VARY ACCORDING TO PIPE WALL THICKNESS.

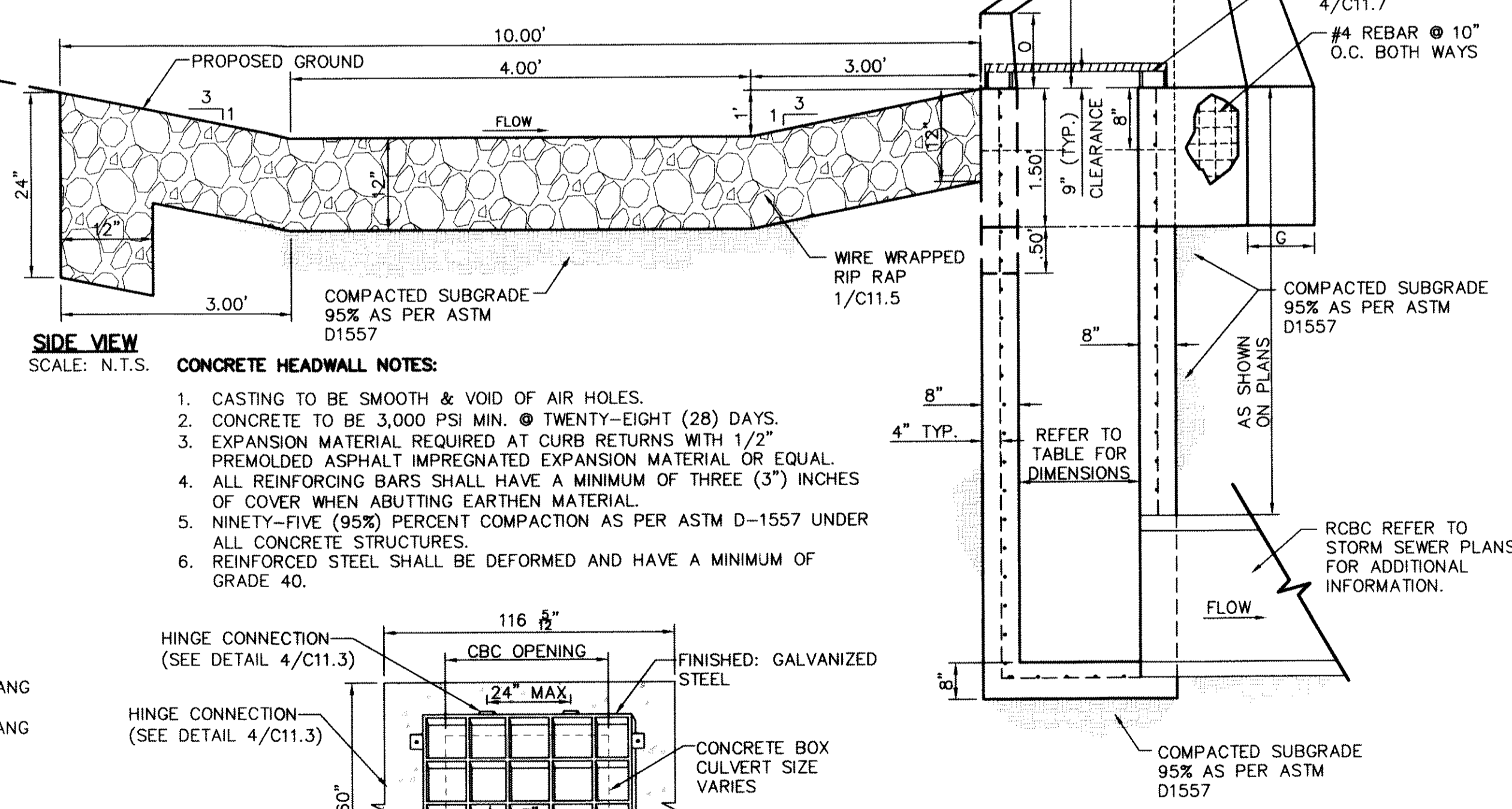


TOP VIEW
SCALE: N.T.S.



FRONT VIEW
SCALE: N.T.S.

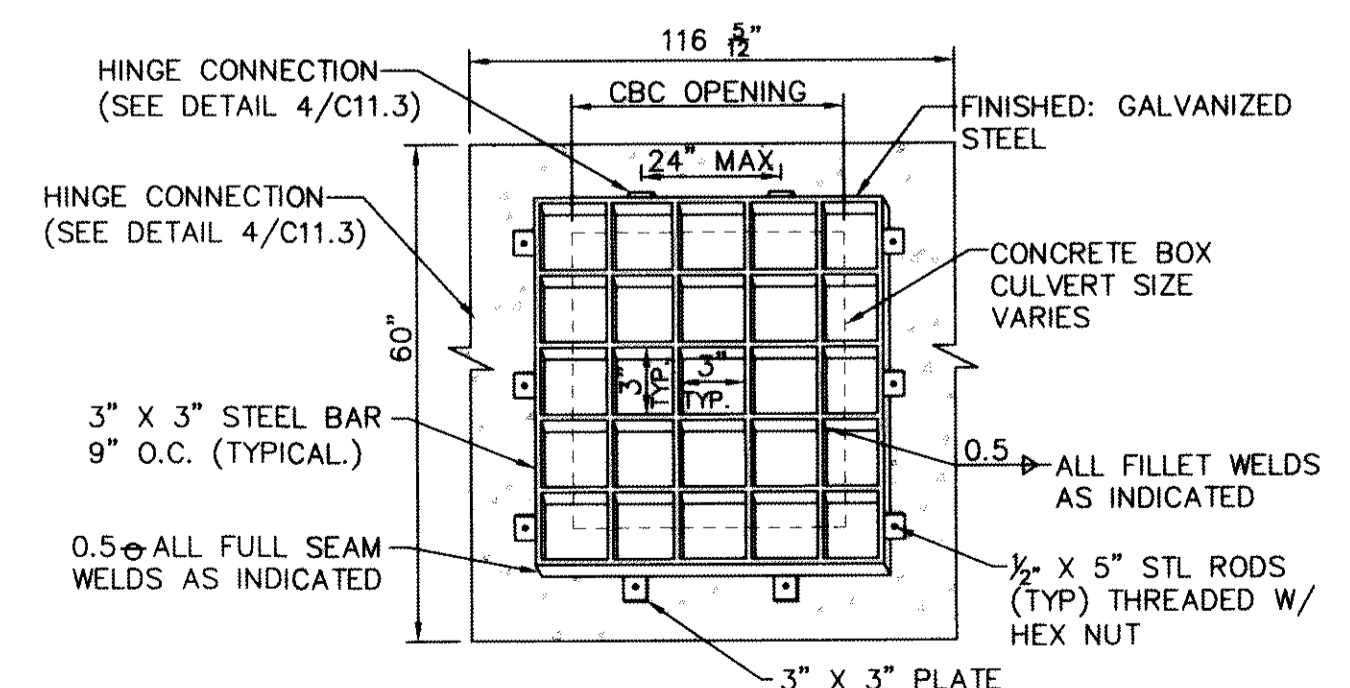
3 INLET CONCRETE HEADWALL WITH WING WALL FOR LINE H
SCALE: 1" = 1'-0"



SIDE VIEW
SCALE: N.T.S.

CONCRETE HEADWALL NOTES:

- CASTING TO BE SMOOTH & VOID OF AIR HOLES.
- CONCRETE TO BE 3,000 PSI MIN. @ TWENTY-EIGHT (28) DAYS.
- EXPANSION MATERIAL REQUIRED AT CURB RETURNS WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
- ALL REINFORCING BARS SHALL HAVE A MINIMUM OF THREE (3") INCHES OF COVER WHEN ABUTTING EARTHEN MATERIAL.
- NINETY-FIVE (95%) PERCENT COMPACTION AS PER ASTM D-1557 UNDER ALL CONCRETE STRUCTURES.
- REINFORCED STEEL SHALL BE DEFORMED AND HAVE A MINIMUM OF GRADE 40.



- NOTE:**
- THE DEBRIS TRAP SHALL HAVE A NINE (9") INCH CLEARANCE.

4 DEBRIS TRAP DETAIL FOR INLET CONCRETE HEADWALL FOR LINE H
SCALE: N.T.S.

RECORD DRAWINGS
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10/24/2013

REFERENCES - BENCHMARKS
FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
ELEVATION: 3945.11 (NAVD 88 DATUM)
3945.78 (NAVD 29 DATUM)
TIE TO THE PROJECT BENCHMARK IS IN PLACE AT THE NORTHWEST CORNER OF TRACT 11, NELLE D. MUNDY SURVEY, NO. 239

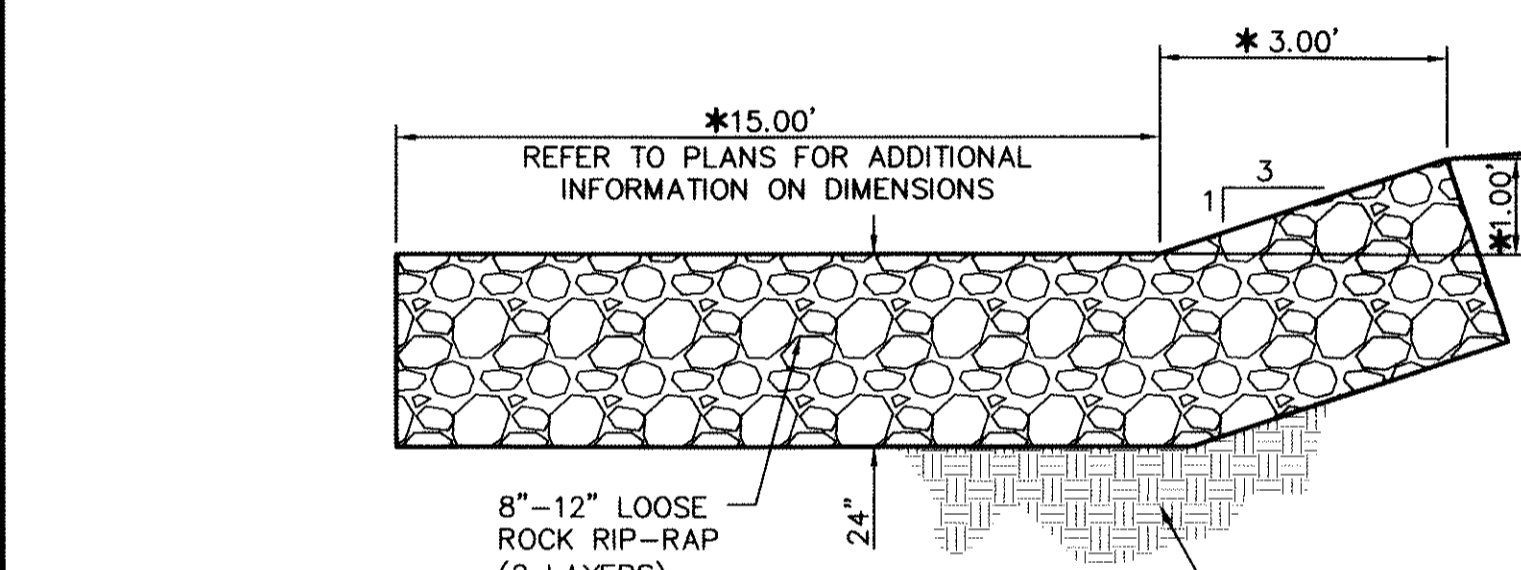
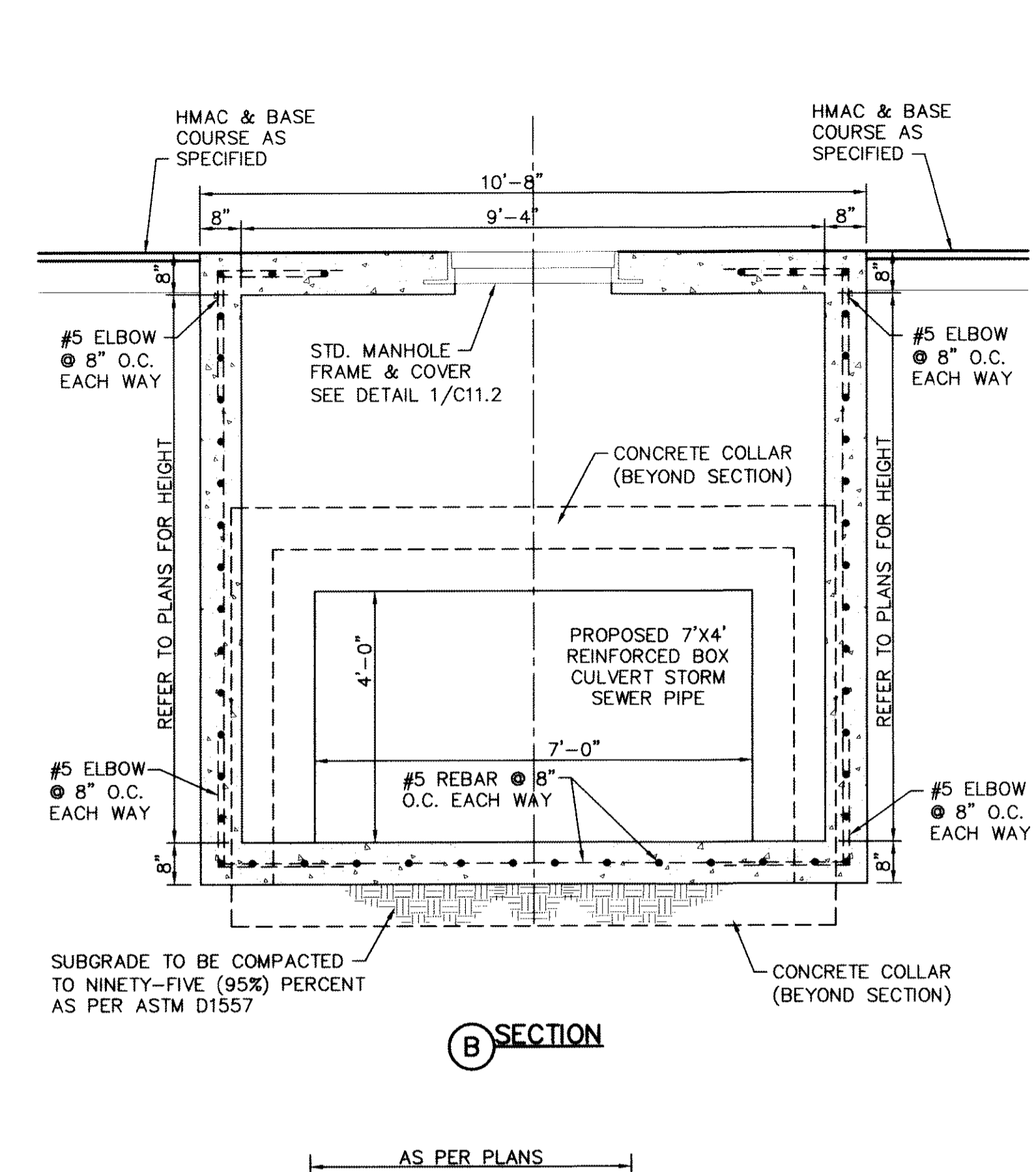
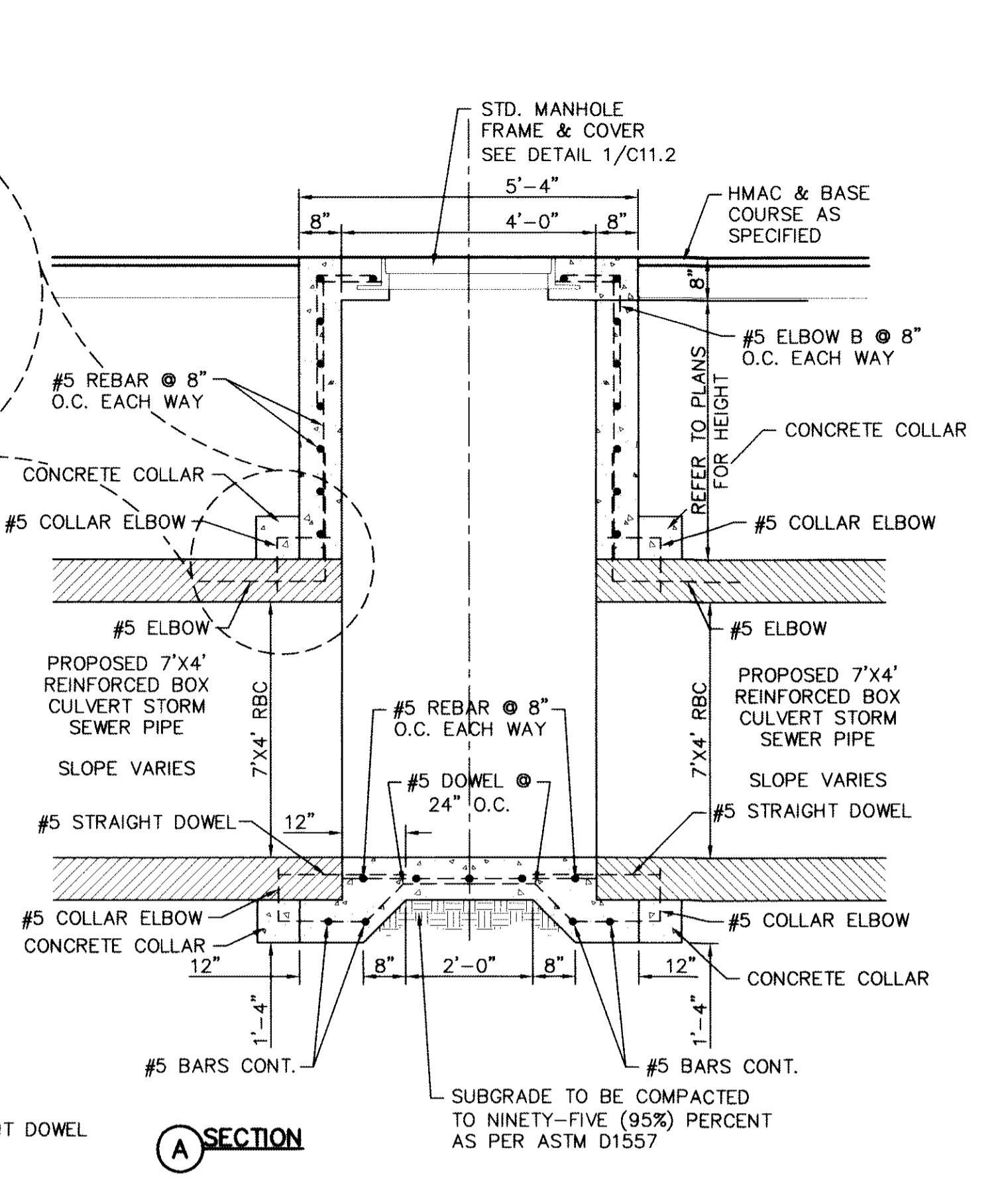
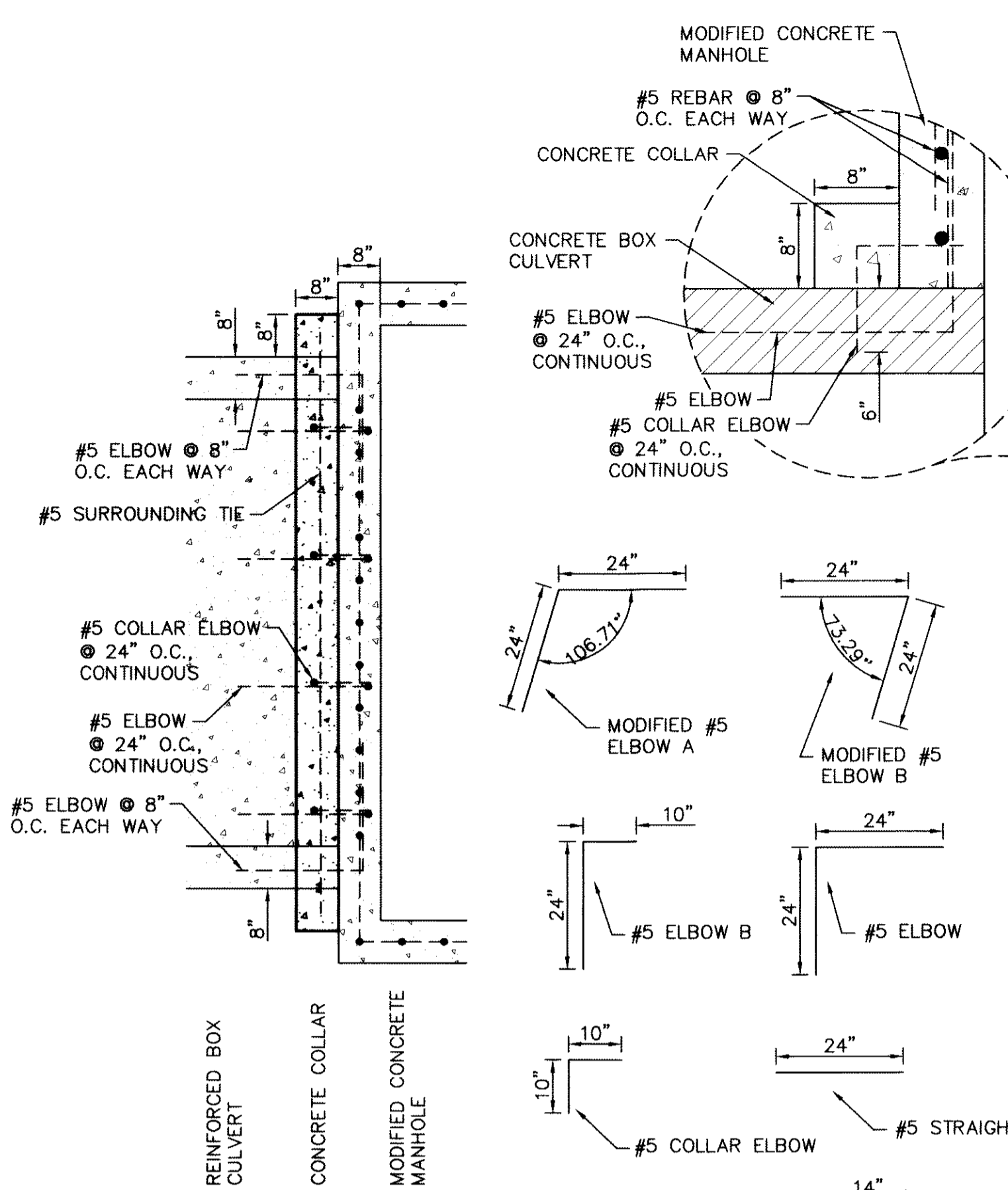
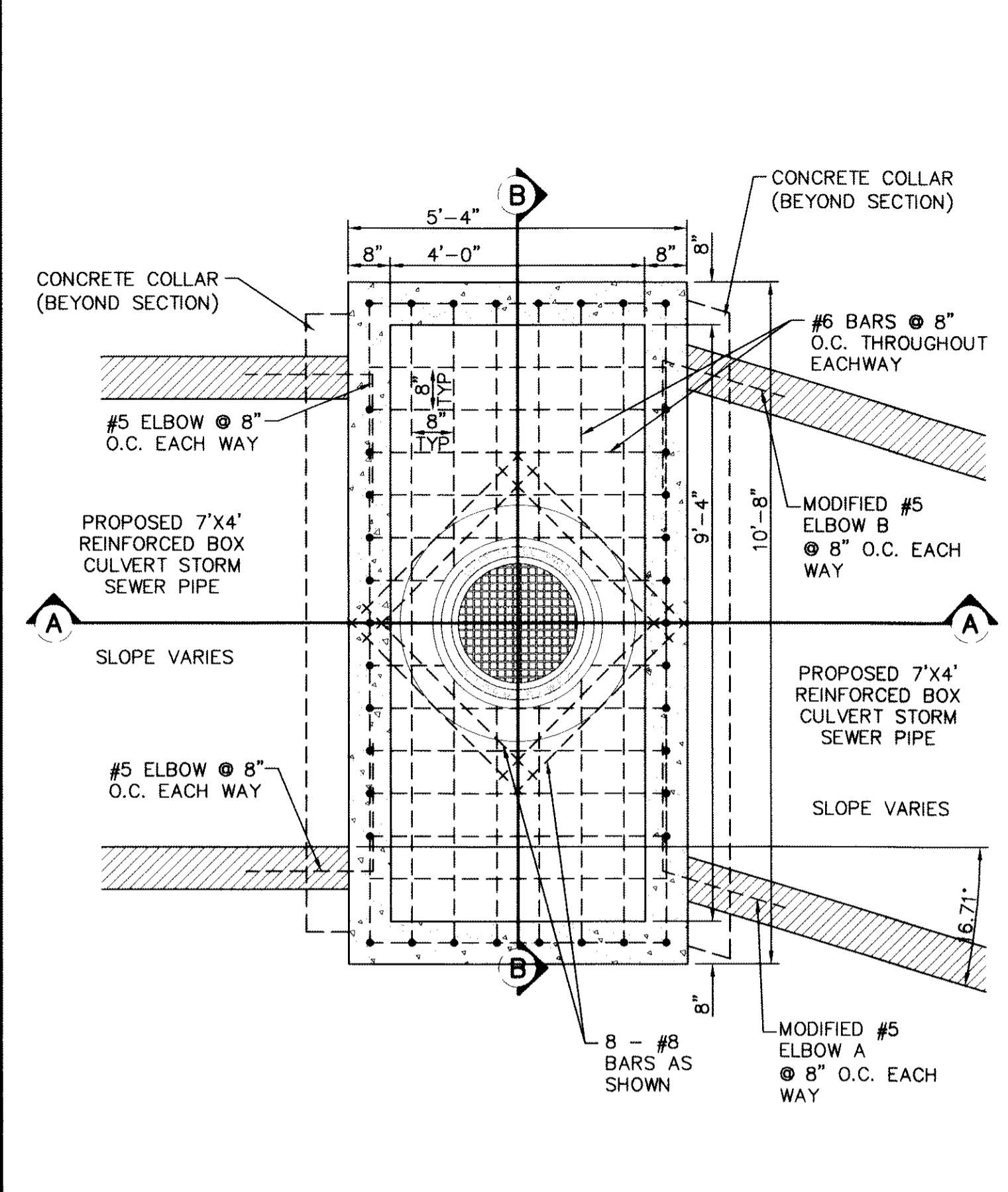
ENGINEER'S SEAL
JUAN D. HERRERA
10414
Professional Engineer
Civil Engineering
State of Texas
Registration No. 1313

DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

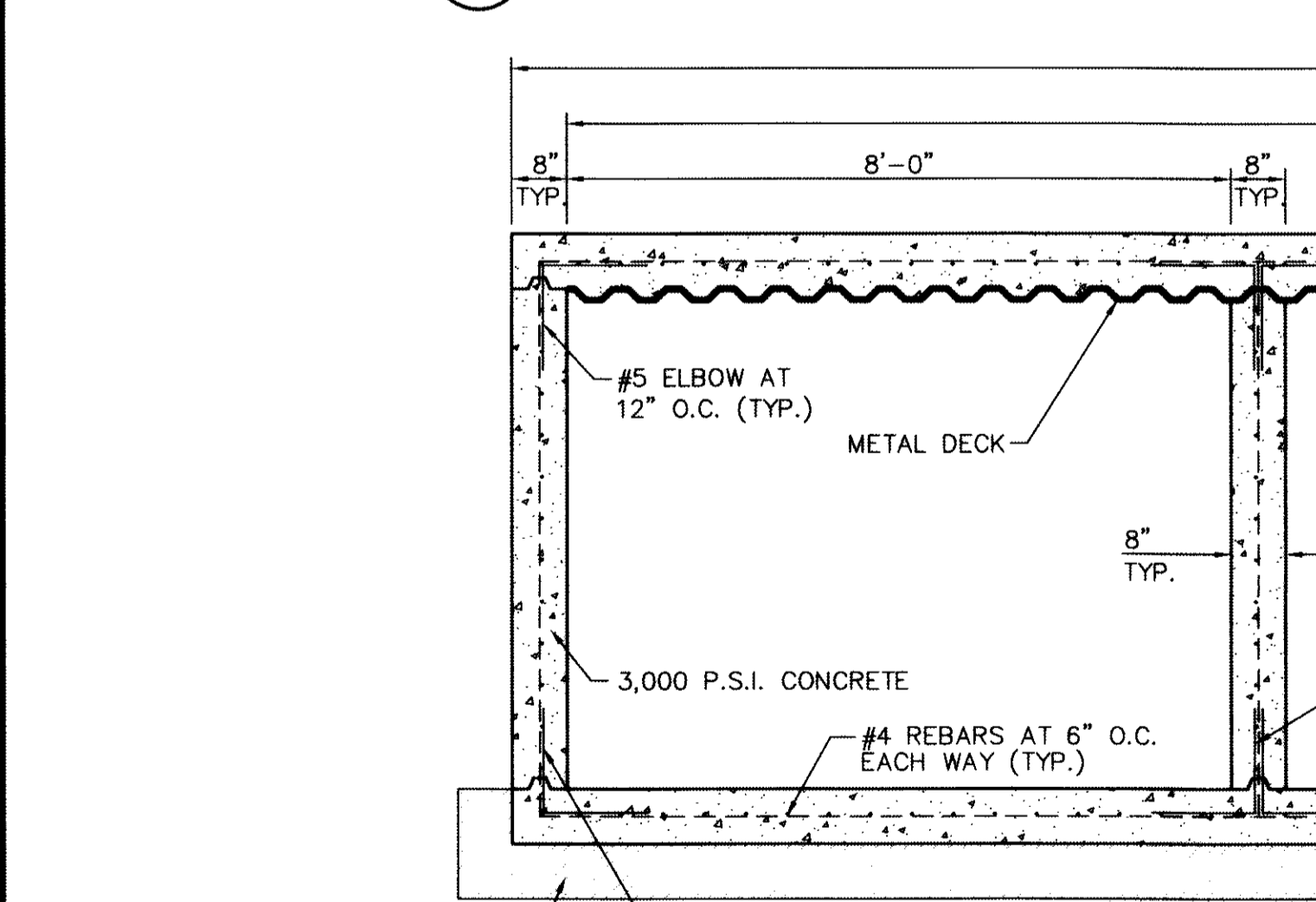
PROJECT TITLE

SHEET TITLE
DRAINAGE DETAILS
(SHEET 7 OF 10)
SHEET NO.

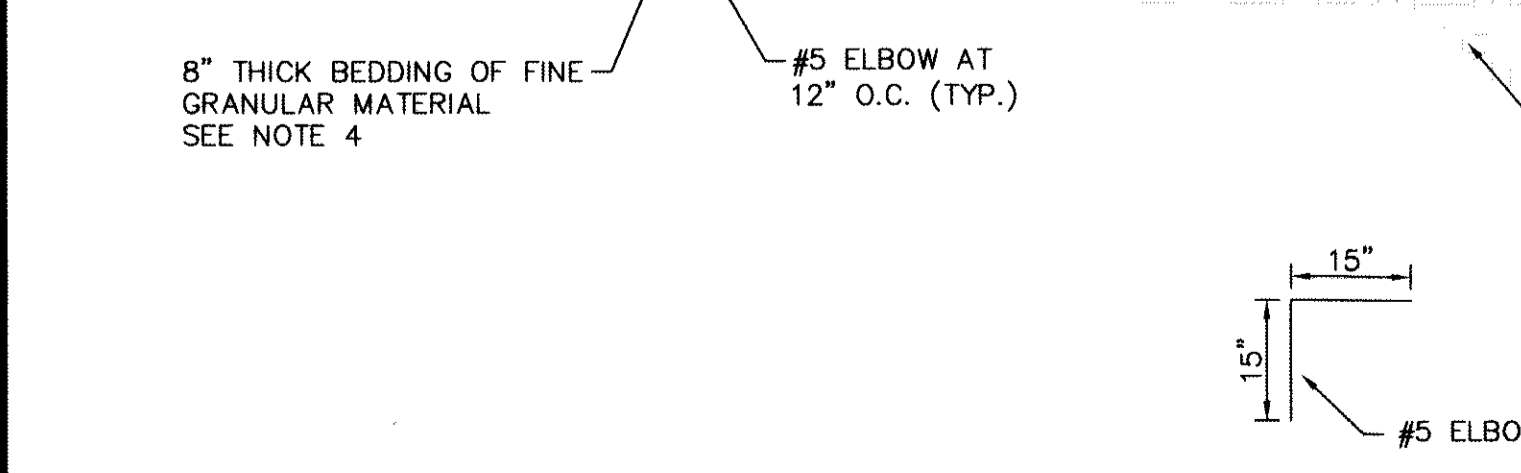
C11.7



2 STILLING BASIN DETAIL
SCALE: 1" = 2'-0"



4 LOOSE ROCK RIP-RAP DETAIL
SCALE: 1" = 2'-0"



3 REINFORCED CAST-IN-PLACE 8'X6' CONCRETE BOX CULVERT
SCALE: 1" = 2'-0"

- NOTE:**
1. ALL REINFORCING BARS SHALL HAVE A MINIMUM OF 3-INCHES OF COVER WHEN ABUTTING EARTHEN MATERIAL.
 2. ALL CONCRETE SHALL HAVE 3,000 P.S.I. (MIN.) AT TWENTY-EIGHT (28) DAYS.
 3. NINETY-FIVE (95%) PERCENT COMPACTION AS PER ASTM D-1557 UNDER ALL CONCRETE STRUCTURES.
 4. REINFORCED STEEL SHALL BE DEFORMED AND HAVE A MINIMUM OF GRADE 40.
 5. STRUCTURE SHALL BE DESIGNED FOR HS-20 LOADING.
 6. IN NO MEANS IS THIS ATTEMPTING OR IMPLYING ON HOW TO CONSTRUCT ITEMS, BUT WHENEVER NEEDED A MONOLITHIC POUR MAY BE REQUIRED.

1 REINFORCED MODIFIED CAST-IN-PLACE CONCRETE MANHOLE 1
SCALE: 1" = 2'-0"

- NOTE:**
1. ALL CONCRETE SHALL HAVE 3,000 PSI MIN. @ 28 DAYS.
 2. STRUCTURE TO BE CONSTRUCTED AS PER H20 LOADING REQUIREMENTS.
 3. REINFORCED STEEL SHALL BE DEFORMED AND A MINIMUM OF GRADE 40.
 4. REFERENCE DETAIL 1/C11.1 FOR GRANULAR BEDDING.
 5. METAL DECK SHALL BE COMPOSED OF GALVANIZED STEEL CONFORMING TO ASTM A653.

3 REINFORCED CAST-IN-PLACE 8'X6' CONCRETE BOX CULVERT
SCALE: 1" = 2'-0"

- NOTE:**
1. SUBGRADE TO BE COMPACTED TO NINETY-FIVE (95%) PERCENT OF MAXIMUM DENSITY AS PER ASTM D-1557.
 2. TYPICAL THICKNESS IS SHOWN, ACTUAL THICKNESS WILL VARY, BUT IN NO EVENT SHALL BE LESS THAN TWELVE (12") INCHES.
 3. CONFIGURATION OF STRUCTURE VARIES ON A CASE BY CASE BASIS. REFER TO PLANS FOR ADDITIONAL INFORMATION ON WIDTH, LENGTH, LIMITS OF RIP-RAP, SLOPE, ETC.

4 LOOSE ROCK RIP-RAP DETAIL
SCALE: 1" = 2'-0"

- NOTE:**
1. ALL CONCRETE SHALL HAVE 3,000 PSI MIN. @ 28 DAYS.
 2. STRUCTURE TO BE CONSTRUCTED AS PER H20 LOADING REQUIREMENTS.
 3. REINFORCED STEEL SHALL BE DEFORMED AND A MINIMUM OF GRADE 40.
 4. REFERENCE DETAIL 1/C11.1 FOR GRANULAR BEDDING.
 5. METAL DECK SHALL BE COMPOSED OF GALVANIZED STEEL CONFORMING TO ASTM A653.

3 REINFORCED CAST-IN-PLACE 8'X6' CONCRETE BOX CULVERT
SCALE: 1" = 2'-0"

- NOTE:**
1. SUBGRADE TO BE COMPACTED TO NINETY-FIVE (95%) PERCENT OF MAXIMUM DENSITY AS PER ASTM D-1557.
 2. TYPICAL THICKNESS IS SHOWN, ACTUAL THICKNESS WILL VARY, BUT IN NO EVENT SHALL BE LESS THAN TWELVE (12") INCHES.
 3. CONFIGURATION OF STRUCTURE VARIES ON A CASE BY CASE BASIS. REFER TO PLANS FOR ADDITIONAL INFORMATION ON WIDTH, LENGTH, LIMITS OF RIP-RAP, SLOPE, ETC.

4 LOOSE ROCK RIP-RAP DETAIL
SCALE: 1" = 2'-0"

- NOTE:**
1. ALL CONCRETE SHALL HAVE 3,000 PSI MIN. @ 28 DAYS.
 2. STRUCTURE TO BE CONSTRUCTED AS PER H20 LOADING REQUIREMENTS.
 3. REINFORCED STEEL SHALL BE DEFORMED AND A MINIMUM OF GRADE 40.
 4. REFERENCE DETAIL 1/C11.1 FOR GRANULAR BEDDING.
 5. METAL DECK SHALL BE COMPOSED OF GALVANIZED STEEL CONFORMING TO ASTM A653.

3 REINFORCED CAST-IN-PLACE 8'X6' CONCRETE BOX CULVERT
SCALE: 1" = 2'-0"

DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

RECORD DRAWINGS

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10/24/2013

C11.8

DRAINAGE DETAILS

(SHEET 8 OF 10)

SHEET NO.

SEA GROUP

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Caster Center @ Transmountain
4715 Woodrow Bean, Ste. F, El Paso, TX 79924
Office Phone: 915.755.1100
Texas Professional Registration No. 484

ENGINEER'S SEAL

SCALE: As SHOWN

Horizontal: N/A
Vertical: N/A

Contour Interval: N/A

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: A.H.
JOB No. 2010-013-LD

REFERENCES - BENCHMARKS

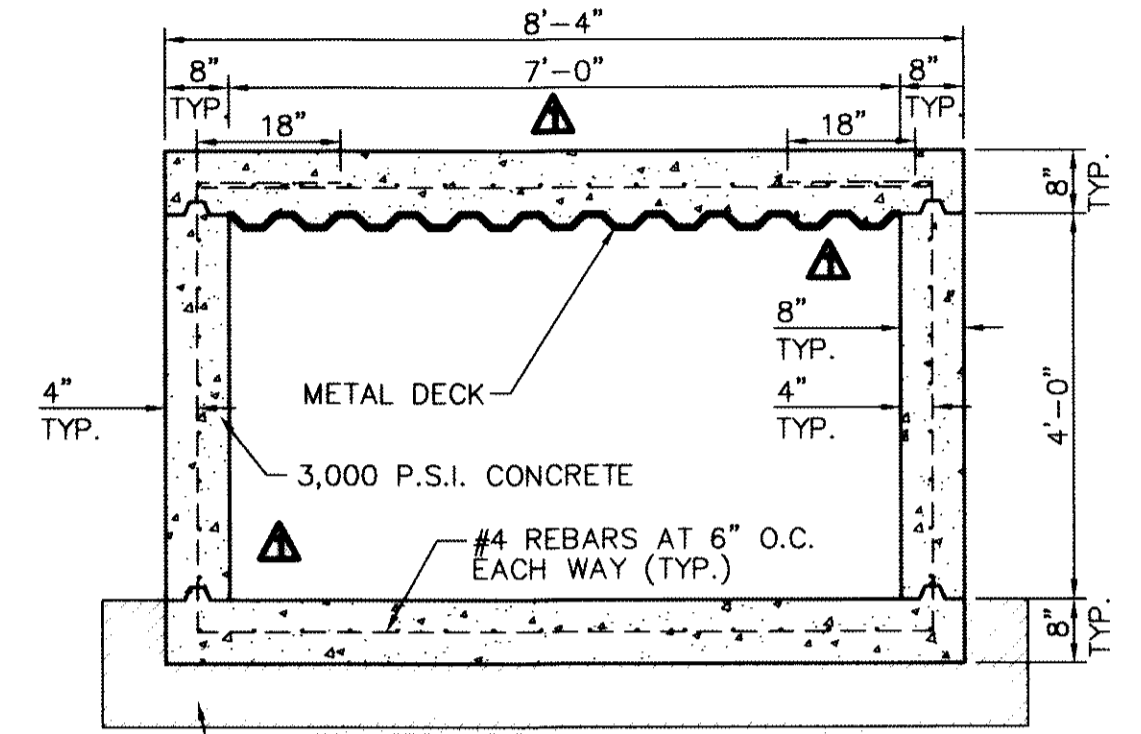
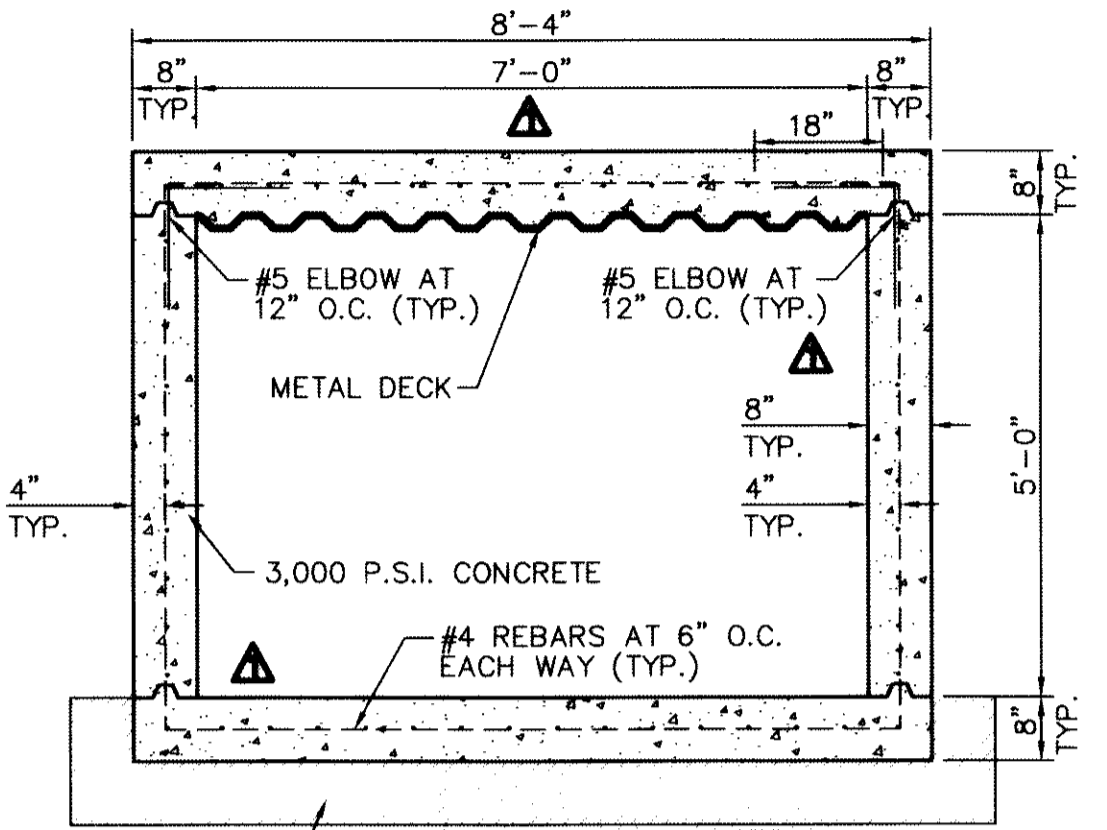
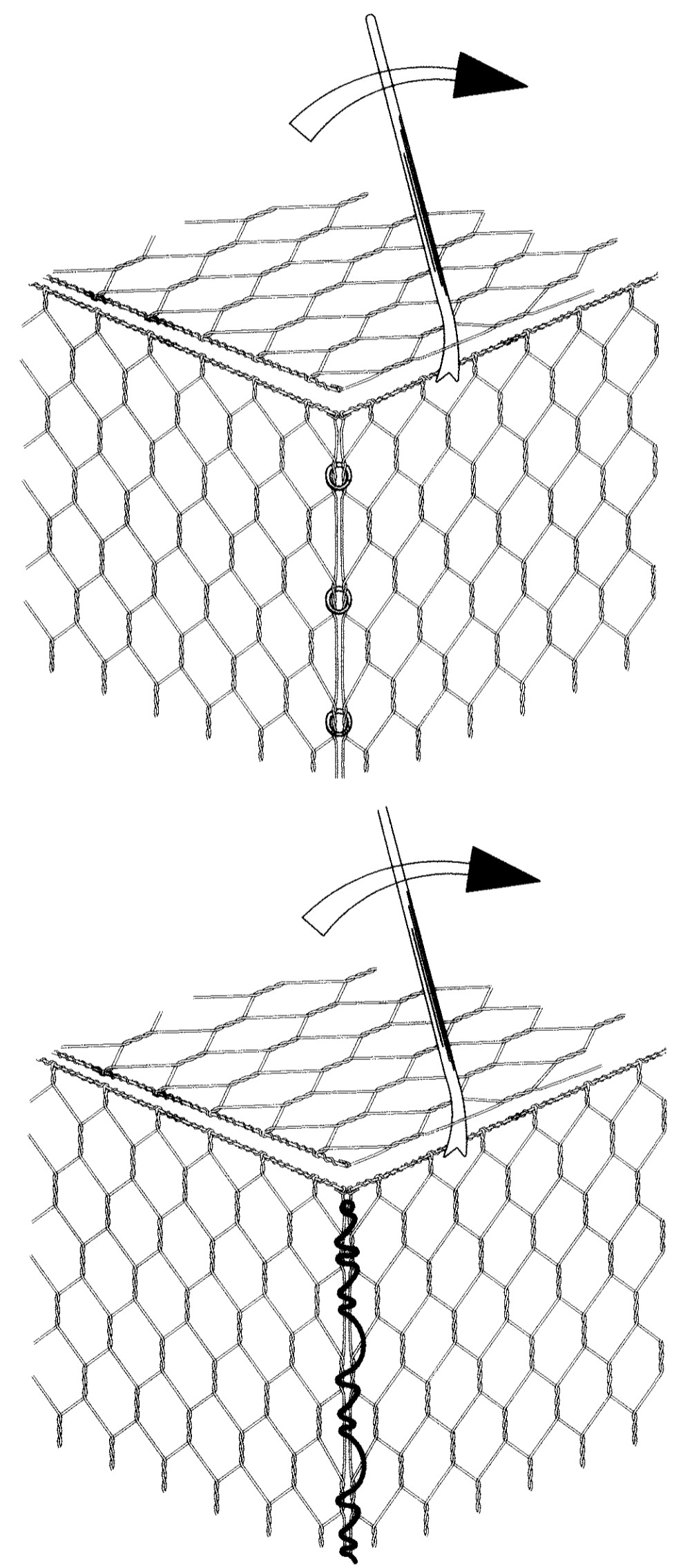
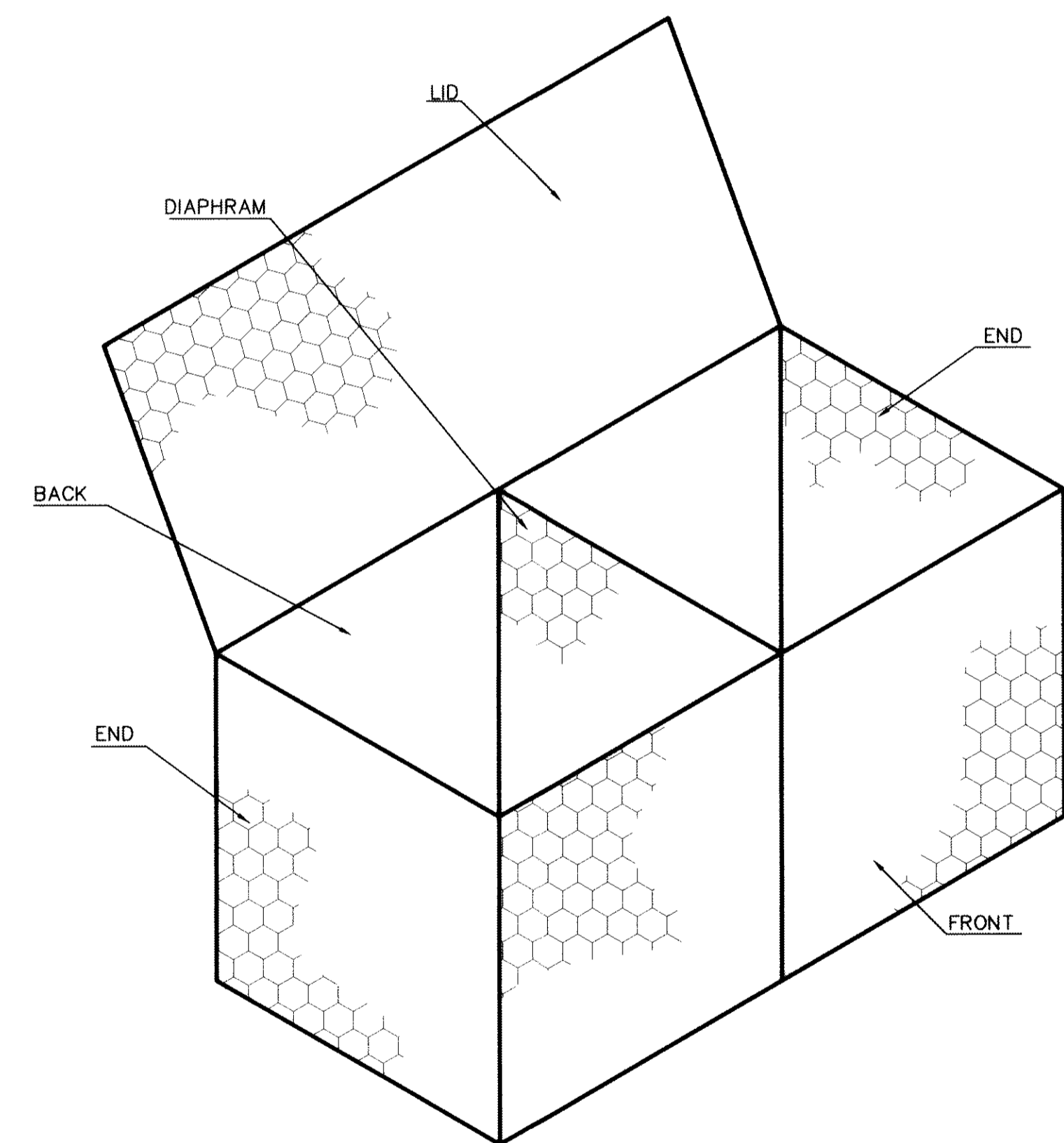
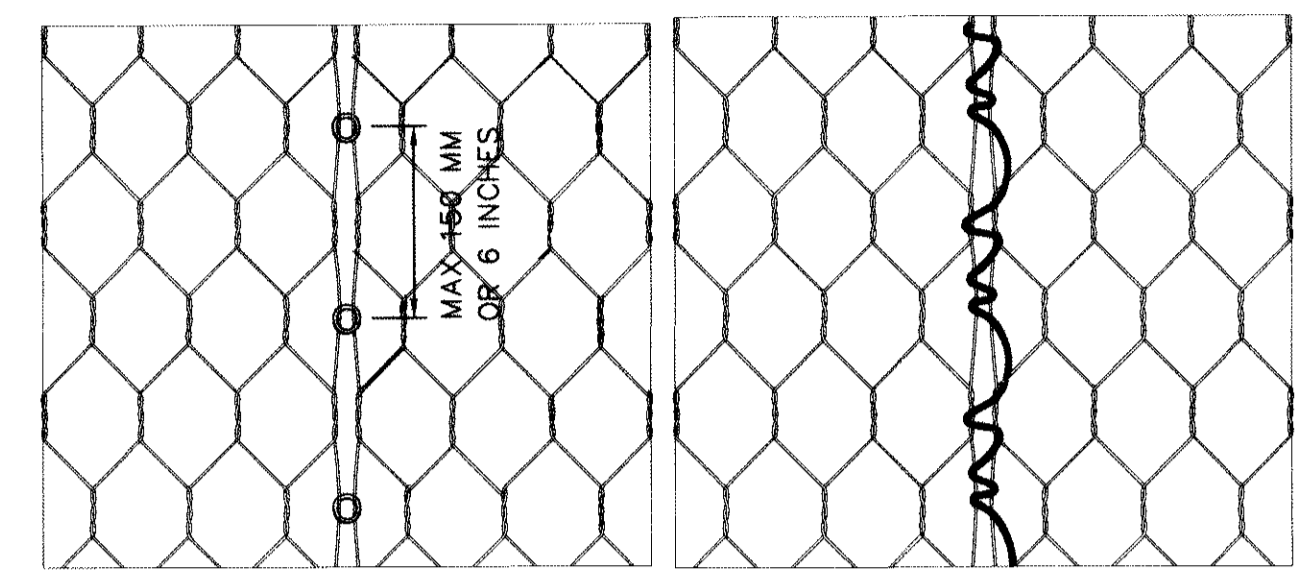
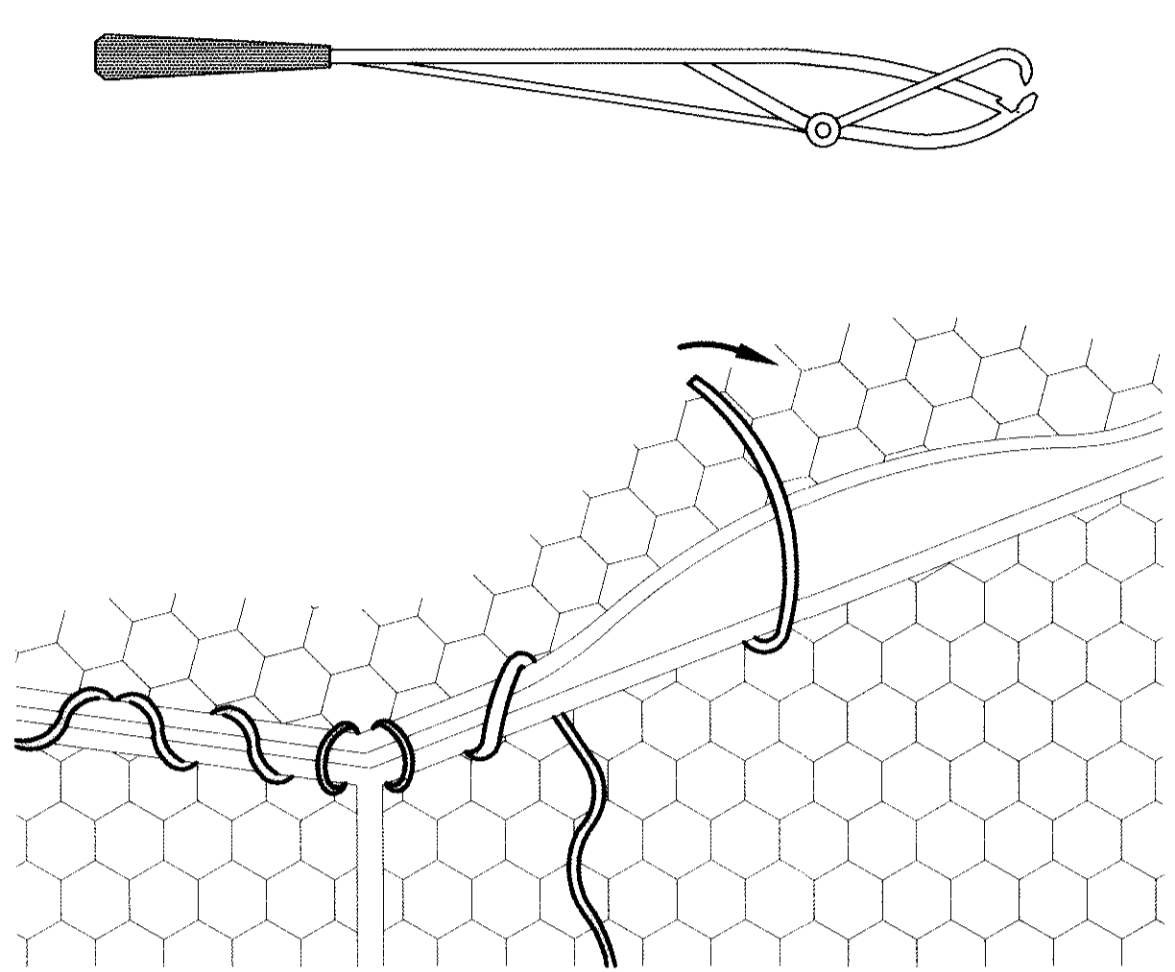
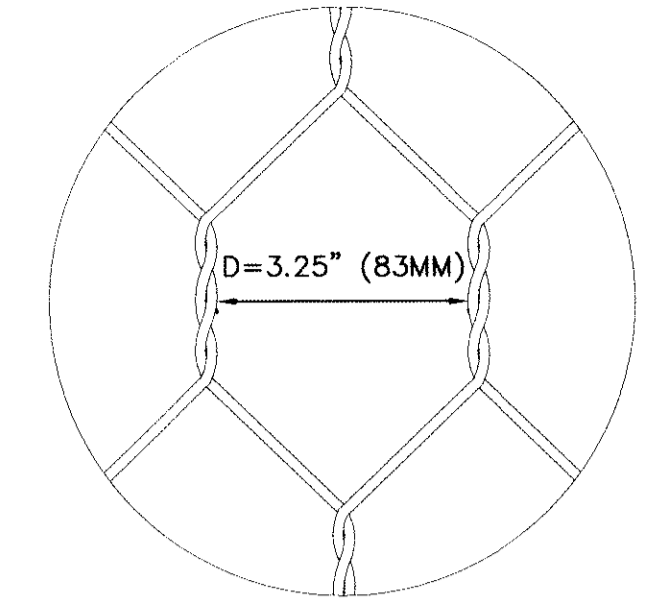
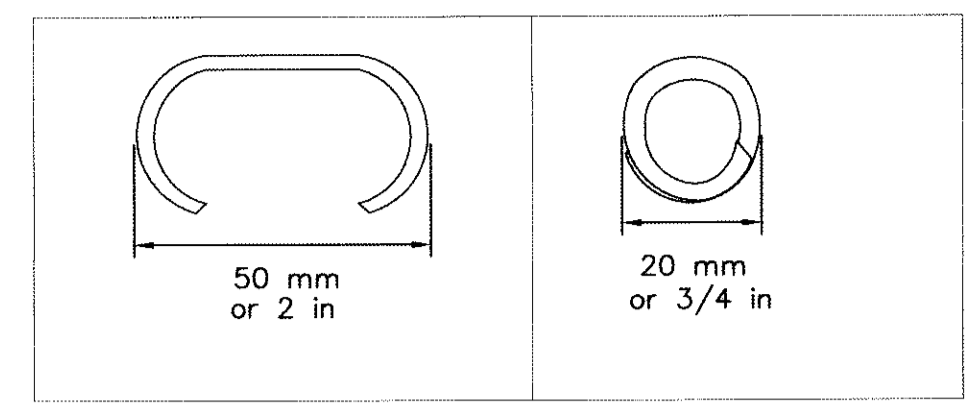
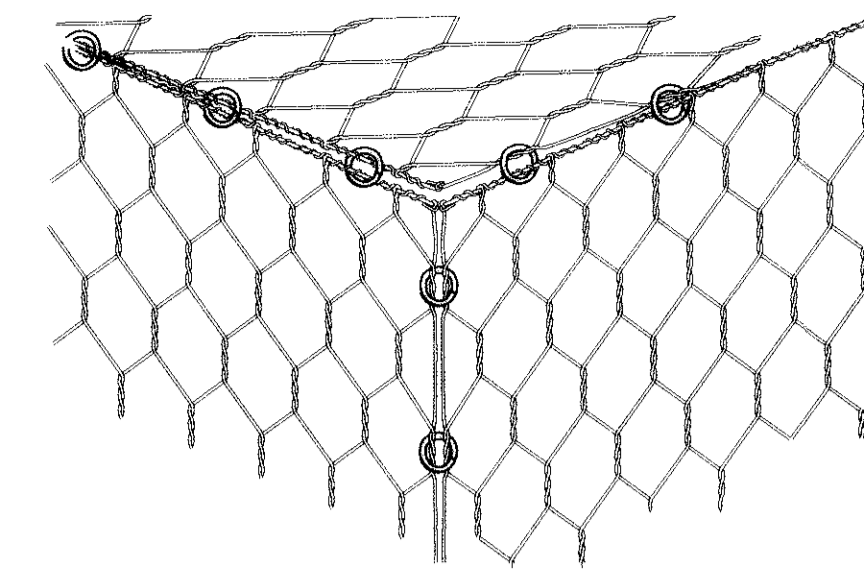
FORM N.C.S. SURVEY MARKER STAKES "CONVUS 1880"
ELEVATION: 3946.11 (NAVD 88 DATUM)
3946.11 (SHOW)

SEE TO THE PROJECT BENCHMARK IS 10050527E, 302083
FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST
CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

DATE _____ BY _____

REVISIONS _____

RECORD DRAWINGS
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 10/24/2013

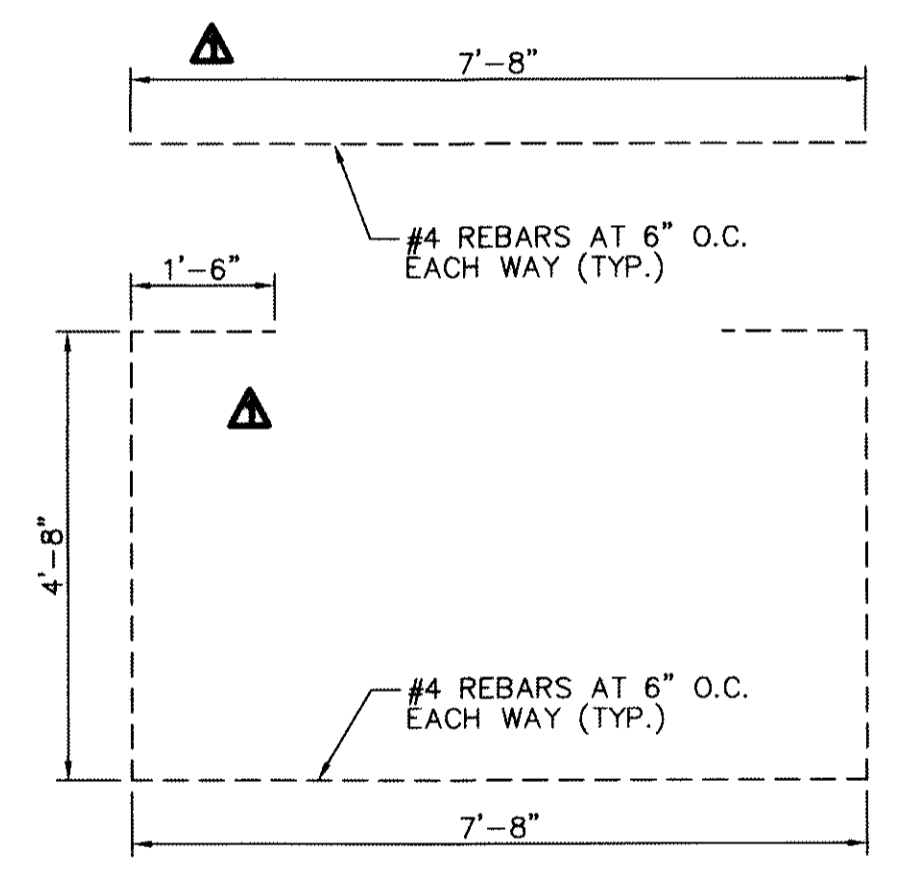
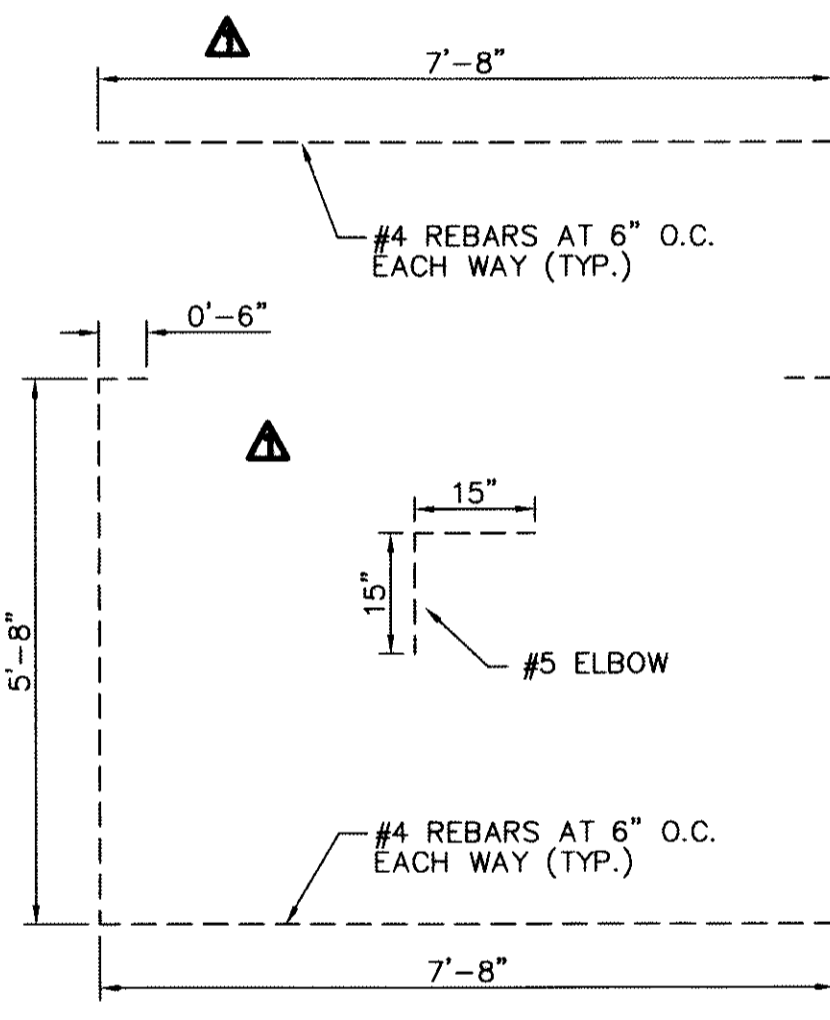


6" THICK BEDDING OF FINE GRANULAR MATERIAL SEE NOTE 4

SUBGRADE TO BE COMPACTED TO NINETY-FIVE (95%) PERCENT AS PER ASTM D1557

6" THICK BEDDING OF FINE GRANULAR MATERIAL SEE NOTE 4

SUBGRADE TO BE COMPACTED TO NINETY-FIVE (95%) PERCENT AS PER ASTM D1557



- NOTE:**
1. ALL CONCRETE SHALL HAVE 3,000 PSI MIN. @ 28 DAYS. STRUCTURE TO BE CONSTRUCTED AS PER H2O LOADING REQUIREMENTS.
 2. REINFORCED STEEL SHALL BE DEFORMED AND A MINIMUM OF GRADE 40.
 3. REFERENCE DETAIL 1/C11.1 FOR GRANULAR BEDDING.
 4. METAL DECK SHALL BE COMPOSED OF GALVANIZED STEEL CONFORMING TO ASTM A653.

- NOTE:**
1. ALL CONCRETE SHALL HAVE 3,000 PSI MIN. @ 28 DAYS. STRUCTURE TO BE CONSTRUCTED AS PER H2O LOADING REQUIREMENTS.
 2. REINFORCED STEEL SHALL BE DEFORMED AND A MINIMUM OF GRADE 40.
 3. REFERENCE DETAIL 1/C11.1 FOR GRANULAR BEDDING.
 4. METAL DECK SHALL BE COMPOSED OF GALVANIZED STEEL CONFORMING TO ASTM A653.

REINFORCED CAST-IN-PLACE CONCRETE BOX CULVERT (7'x5')
 SCALE: 1" = 2'-0"

REINFORCED CAST-IN-PLACE CONCRETE BOX CULVERT (7'x4')
 SCALE: 1" = 2'-0"

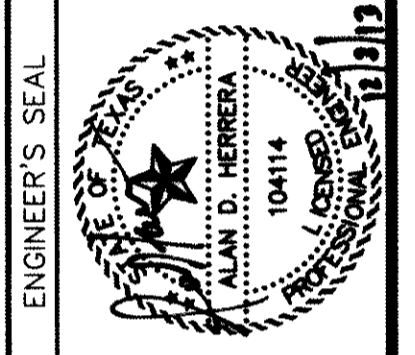
1 REINFORCED CAST-IN-PLACE CONCRETE BOX CULVERT
 C11.9 SCALE: AS SHOWN
 ▲ DETAIL REVISED AND RELOCATED TO C11.9

- NOTES**
1. EDGES ARE JOINED TOGETHER, USING THE APPROPRIATE LACING TECHNIQUES.
 2. MANUAL: CONTINUOUS WIRE LOOPED TIGHTLY AROUND EVERY OTHER MESH OPENING, ALTERNATING SINGLE AND DOUBLE LOOPS (FIG. 5).
 3. MECHANICAL: USING A PNEUMATIC OR HAND POWER TOOL, EMPLOYING STAINLESS STEEL "C" SHAPED FASTENERS.
 4. FOR CONTINUITY AND STRENGTH, THE RECOMMENDED SPACING IS 8 TO 12 CM, MAX 150MM.
 5. THE STAINLESS STEEL FASTENER HAS A DIAMETER OF 50 MM OPEN AND 20 MM CLOSED.

2 GABION CLOSING PROCESS
 C11.9 SCALE: N.T.S.

REFERENCES - BENCHMARKS
 FOUND N.S. SURVEY MARKER STATION "CINNO 1880"
 ELEVATION: 3946.11 (NAVD 88 DATUM)
 3946.11 (NAVD 88 DATUM)
 TIE TO THE PROJECT BENCHMARK IS N0050505'E, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. HUNDT SURVEY No. 239
 DATE: _____ REVISIONS: _____ BY: _____
 A REBAR REVISION: _____

cea
 engineers • architects • planners
 Center @ Transmountain
 4712 Woodrow Ben. Ste. F El Paso, TX 79924
 One in Texas REGISTRATION NO. 484



SCALE
 Horizontal: AS SHOWN
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.L.A.
 CHECKED BY: J.L.A.
 APPROVED BY: A.H.
 JOB No. 2050-013-LD

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

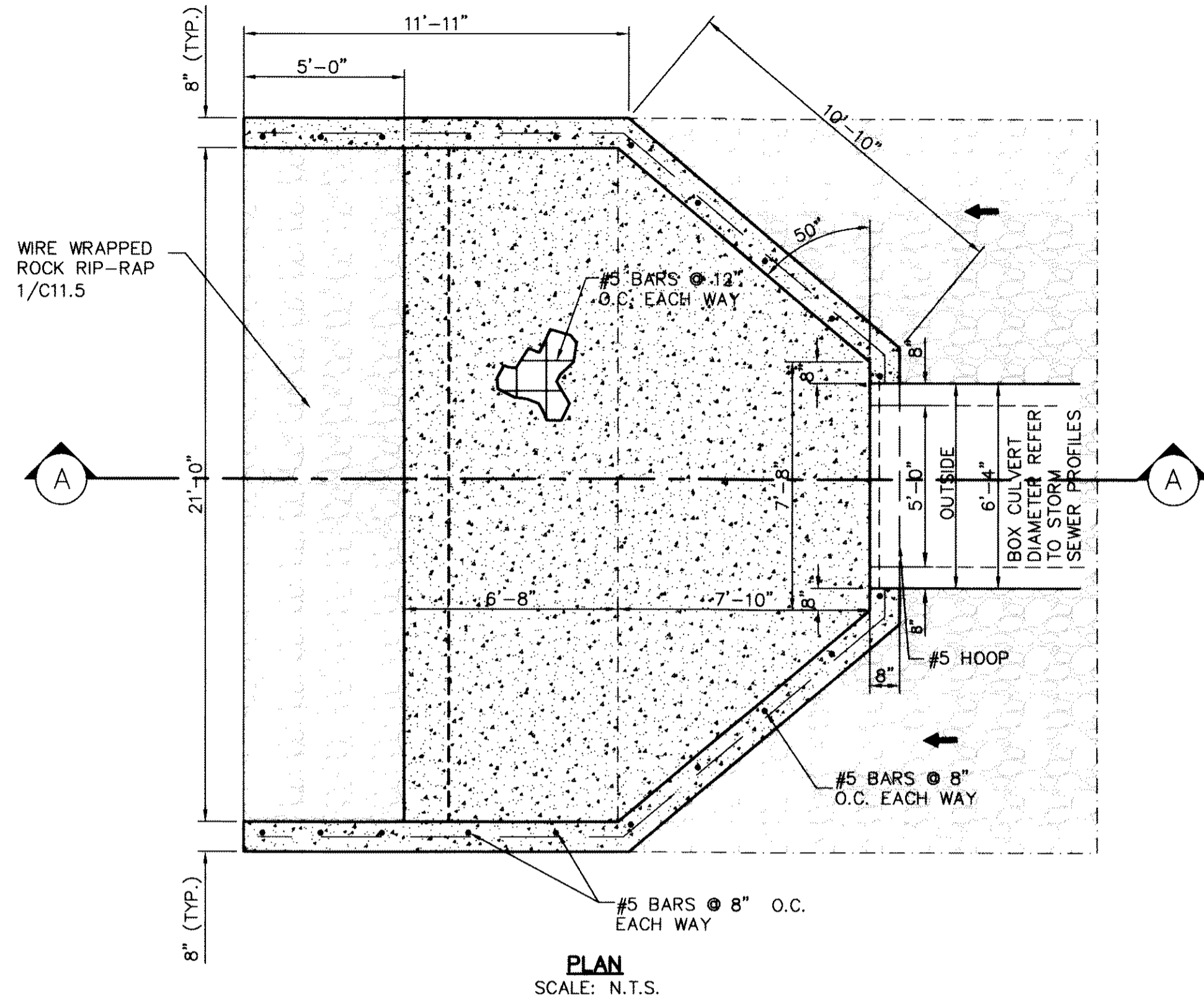
SHEET TITLE

DRAINAGE DETAILS

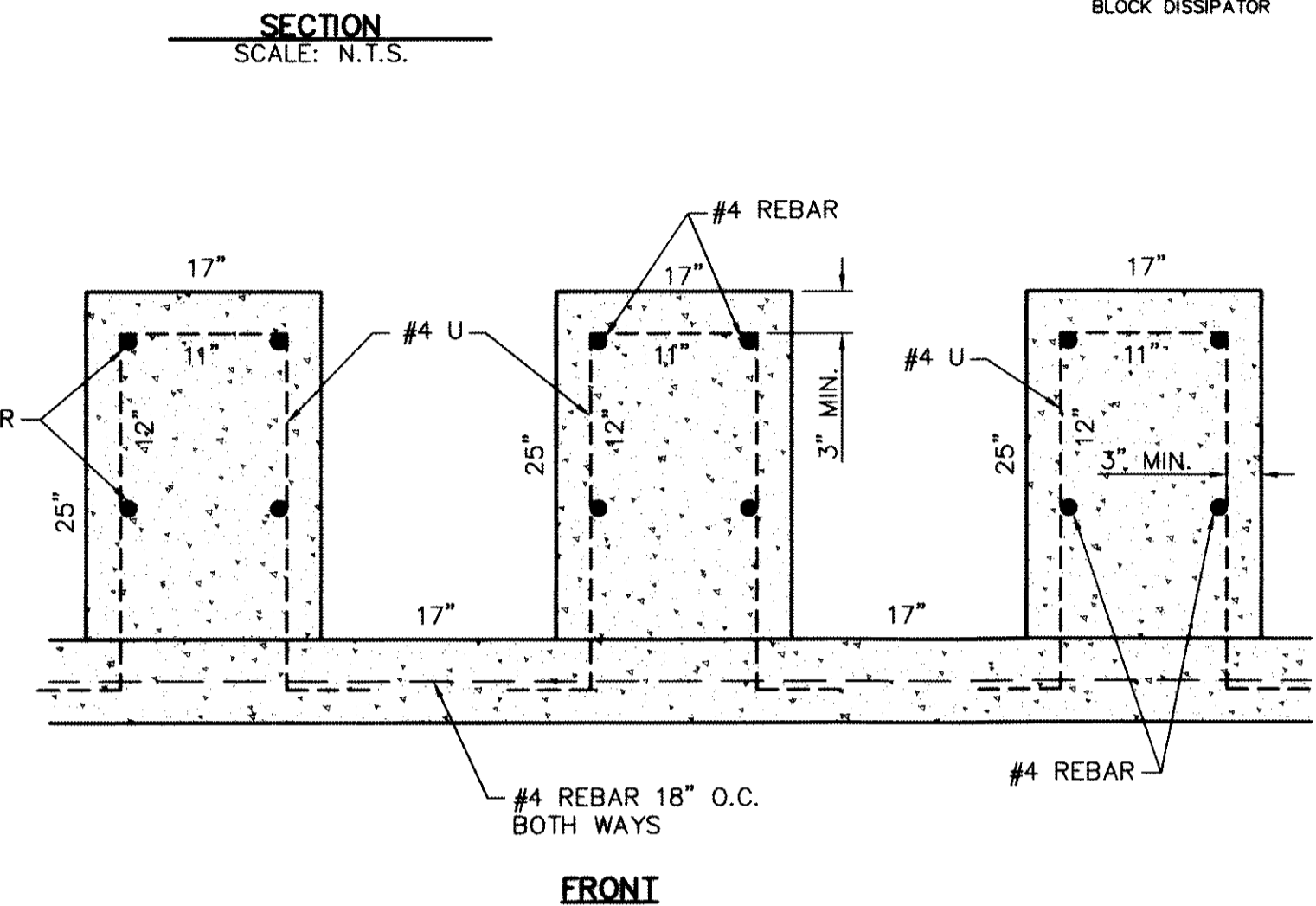
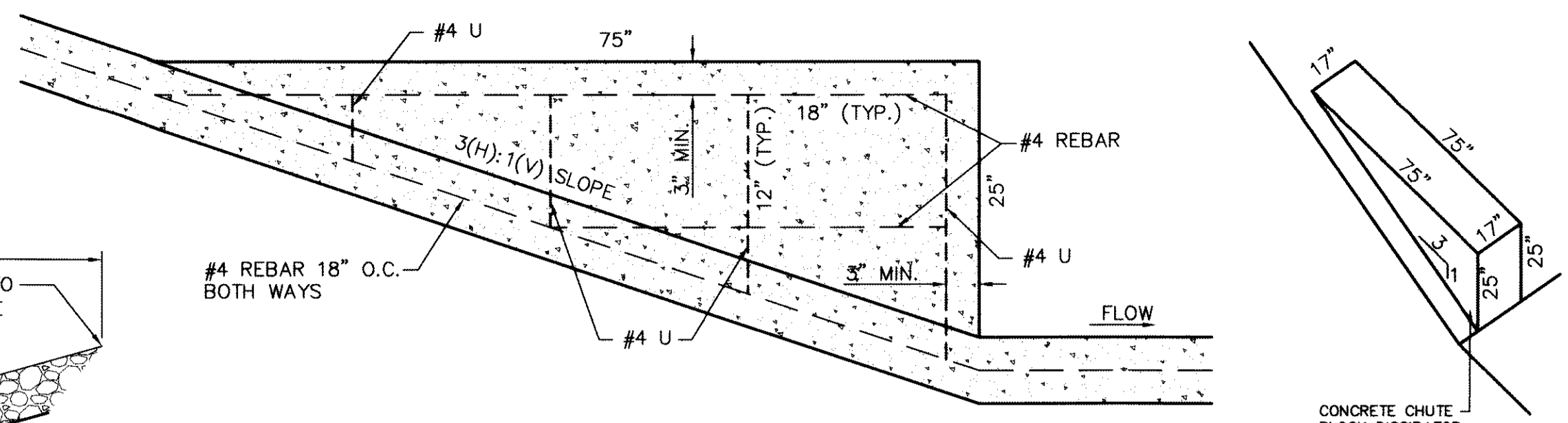
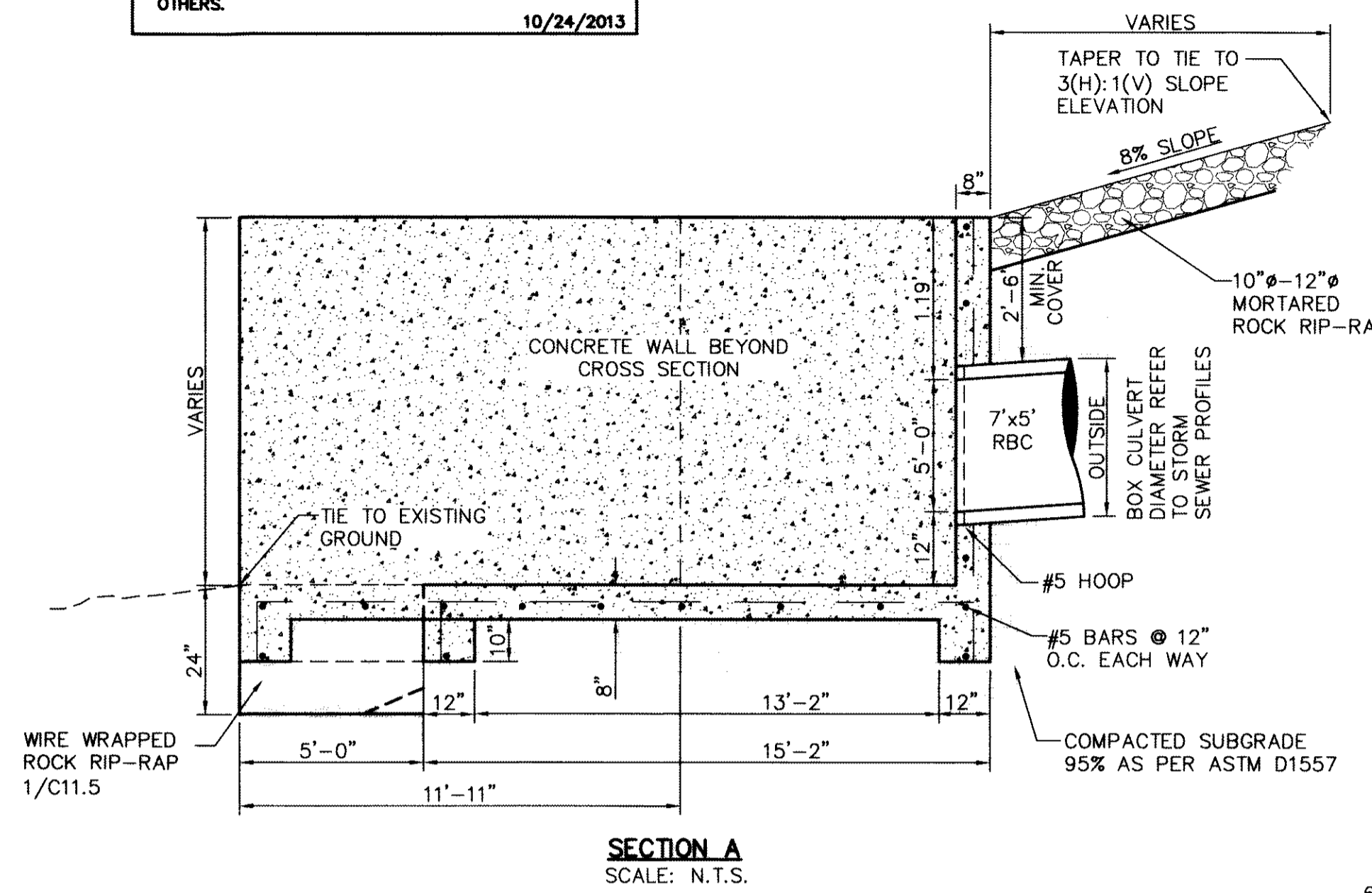
(SHEET 9 OF 10)

SHEET NO.

C11.9



RECORD DRAWINGS
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 10/24/2013



NOTES:

1. ALL CONCRETE SHALL HAVE 3,000 PSI MIN. @ 28 DAYS.
2. REINFORCED STEEL SHALL BE DEFORMED AND A MINIMUM OF GRADE 40.

1 CONCRETE THRUST BLOCK STRUCTURE & CONCRETE WALL DETAIL
 SCALE: N.T.S.

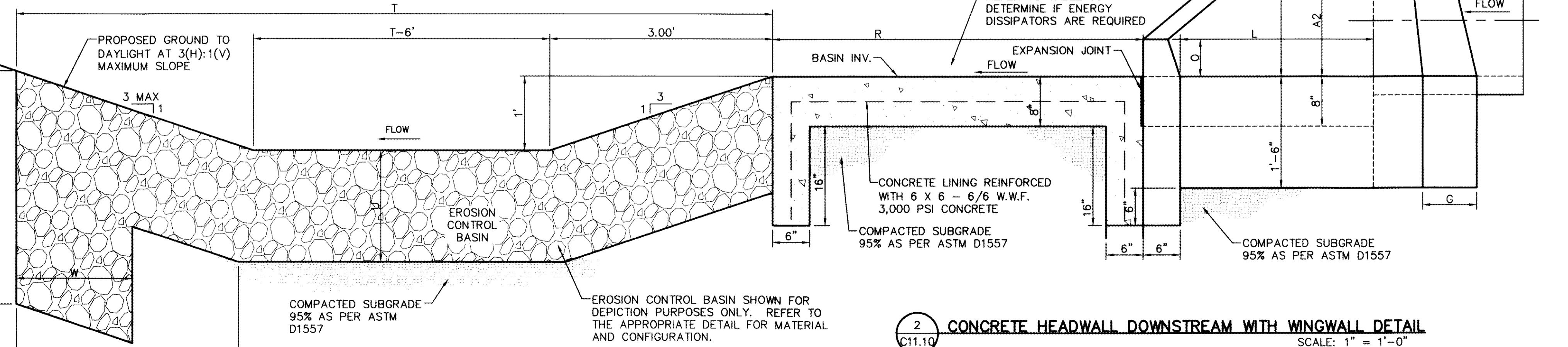
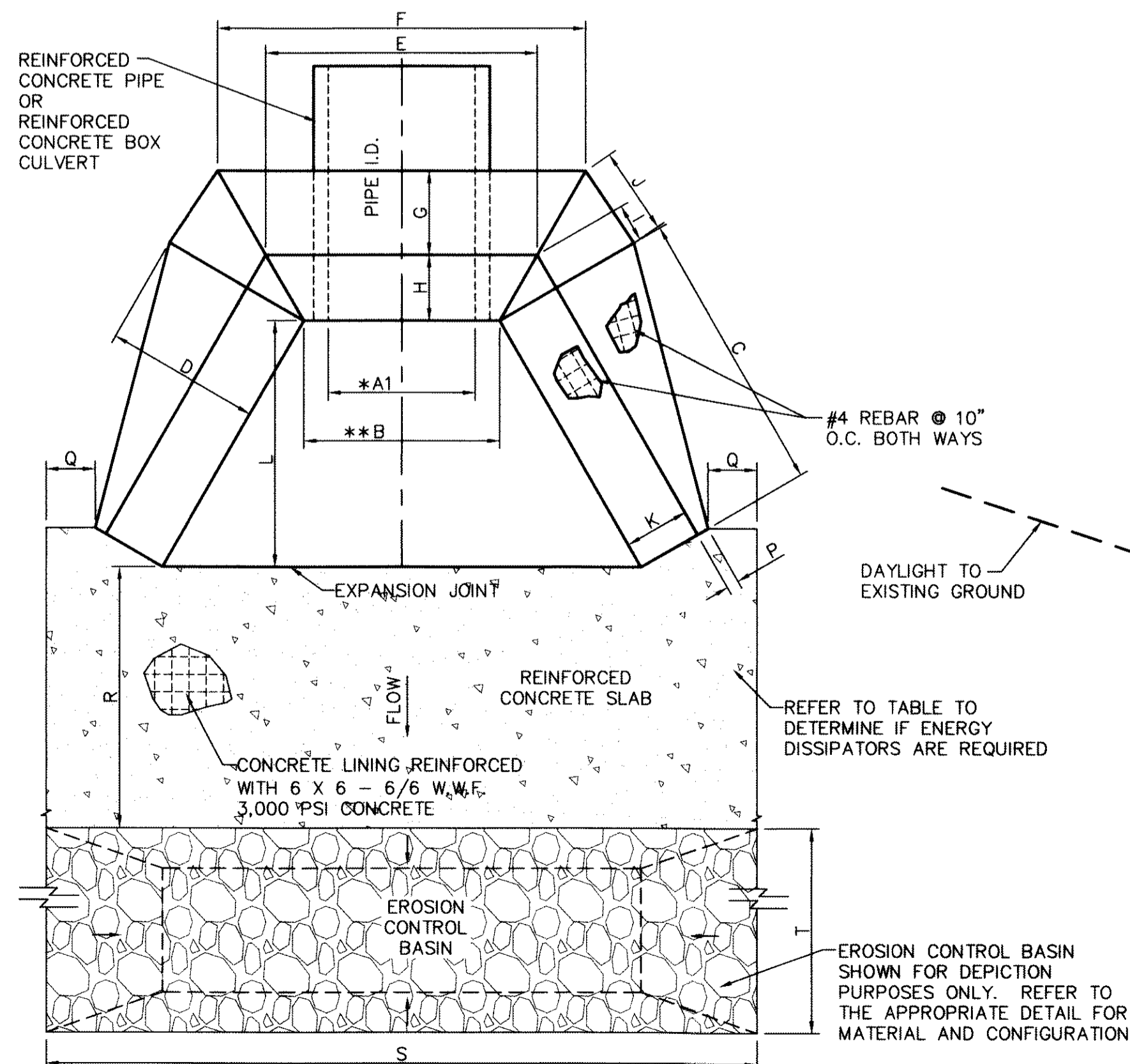
NOTES:

1. ALL CONCRETE SHALL HAVE 3,000 PSI MIN. @ 28 DAYS.
2. REINFORCED STEEL SHALL BE DEFORMED AND A MINIMUM OF GRADE 40.

3 CHUTE BLOCK DISSIPATOR DETAIL
 SCALE: 1" = 1'-0"

| CONCRETE HEADWALL I.D. | REINFORCED CONCRETE PIPE | EROSION CONTROL BASIN ***** | REFERENCE DETAIL | ENERGY DISSIPATORS | *A1 | A2 | **B | C | D | E | F | G | H | I | J | K | L | M | **N | O | P | Q | R | S | T | U | V | W |
|------------------------|--------------------------|-----------------------------|------------------|--------------------|------|-----|------|------|-----|------|------|-----|----|----|-----|----|------|----|-----|----|----|------|------|------|------|-----|-----|-----|
| 1 | 2 - 48" RCP | WIRE WRAPPED RIP RAP | 1/C11.5 | ***** | 106" | 48" | 128" | 83" | 19" | 137" | 150" | 11" | 8" | 4" | 11" | 8" | 72" | 3" | 69" | 6" | 1" | 120" | 267" | *** | *** | 12" | 24" | 12" |
| 2 | 3 - 66" RCP | WIRE WRAPPED RIP RAP | 1/C11.5 | ***** | 240" | 66" | 265" | 114" | 24" | 274" | 292" | 16" | 8" | 4" | 13" | 8" | 99" | 3" | 88" | 6" | 2" | *** | 135" | *** | *** | 12" | 24" | 12" |
| 3 | 6 - 8'x6' RCBC | WIRE WRAPPED RIP RAP | 1/C11.5 | ***** | 616" | 72" | 644" | 124" | 24" | 653" | 671" | 16" | 8" | 4" | 13" | 8" | 108" | 3" | 96" | 6" | 2" | 24" | 257" | 834" | 360" | 12" | 24" | 12" |
| 4 | 1 - 24" RCP | LOOSE ROCK RIP RAP | 3/C11.2 | N/A | 24" | 24" | 40" | 41" | 15" | 46" | 57" | 9" | 6" | 3" | 8" | 6" | 36" | 3" | 43" | 6" | 1" | 6" | 60" | 106" | 120" | 24" | 36" | 24" |

NOTES:
 * APPROXIMATE DISTANCE INCLUDING THE NUMBER OF BARRELS.
 ** APPROXIMATE DISTANCE SHOWN. ACTUAL DISTANCE WILL VARY ACCORDING TO PIPE WALL THICKNESS.
 *** REFER TO C9 (CULVERT CROSSINGS) FOR ADDITIONAL INFORMATION ON DIMENSIONS.
 **** REFER TO 5/C11.2 FOR ADDITIONAL INFORMATION ON ENERGY DISSIPATORS.
 ***** FOR WIRE WRAPPED RIP RAP, REFER TO 1/C11.5; AND FOR LOOSE ROCK RIP RAP, REFER TO 3/C11.2



CONCRETE HEADWALL DOWNSTREAM NOTES:

1. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
2. CONCRETE TO BE 3,000 PSI MIN. @ TWENTY-EIGHT (28) DAYS.
3. EXPANSION MATERIAL REQUIRED AT CURB RETURNS WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
4. ALL REINFORCING BARS SHALL HAVE A MINIMUM OF THREE (3") INCHES OF COVER WHEN ABUTTING EARTHEN MATERIAL.
5. NINETY-FIVE (95%) PERCENT COMPACTION AS PER ASTM D-1557 UNDER ALL CONCRETE STRUCTURES.
6. REINFORCED STEEL SHALL BE DEFORMED AND HAVE A MINIMUM OF GRADE 40.

2 CONCRETE HEADWALL DOWNSTREAM WITH WINGWALL DETAIL
 SCALE: 1" = 1'-0"

REFERENCES - BENCHMARKS
 FOUND N.A.S. SURVEY MARKER STAMPED "OHIO 1980"
 ELEVATION: 3946.31 (CITY OF EL PASO VERTICAL DATUM)
 3946.31 (NAVD 88 DATUM)
 3945.78 (NGVD 29 DATUM)
 BE TO THE PROJECT BENCHMARK IS 10053652FE - 1 226483
 CORNER OF TRACT 11, NELLE D. WINDY SURVEY NO. 239
 DATE: BY: REVISIONS

cega
 engineers • architects • planners
 Castner Center @ Transmountain
 4712 Woodrow Bean, Ste. F, El Paso, TX 79964
 Office: 915.544.5232 Fax: 915.544.6235 www.cega.com
 TEXAS REGISTRATION NO. 4564

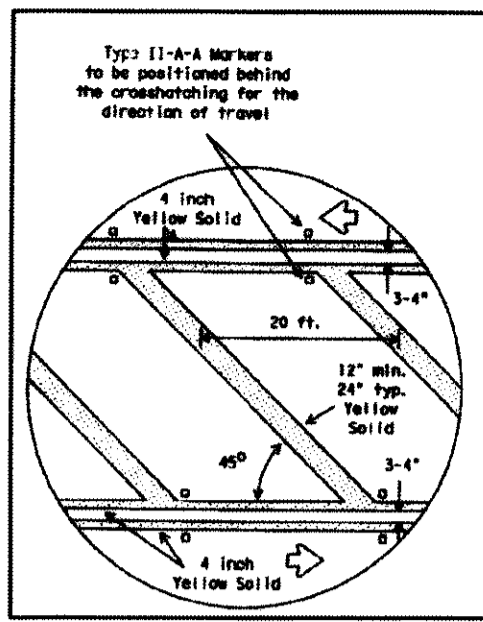
ENGINEER'S SEAL
 ALAN D. HERRERA
 104114
 LICENSED PROFESSIONAL ENGINEER
 CIVIL
 STATE OF TEXAS

SCALE: AS SHOWN
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APP. NO. BY: A.H.
 JOB NO. 2080-013-U.D.

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

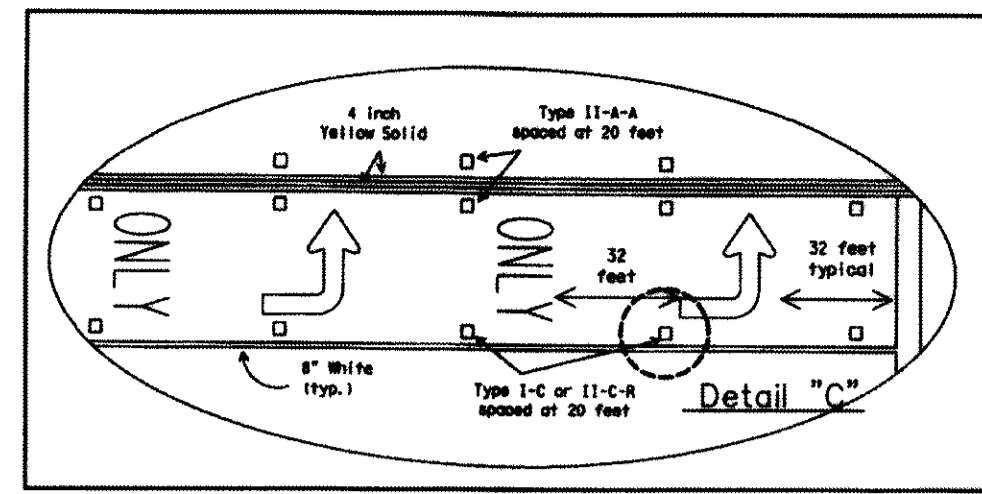
SHEET TITLE
 DRAINAGE DETAILS
 (SHEET 10 OF 10)
 SHEET NO.

C11.10



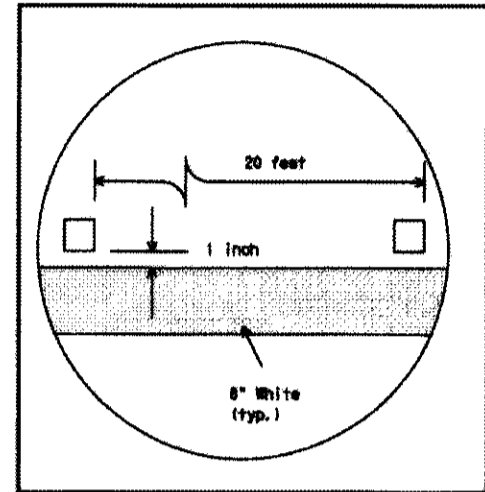
1. REFER TO PM(4)-10 STANDARD DETAIL FOR ADDITIONAL INFORMATION.
2. SEE NOTE 6.

DIVIDED LANE PAVEMENT MARKINGS
SCALE: N.T.S.



1. REFER TO PM(4)-10 STANDARD DETAIL FOR ADDITIONAL INFORMATION.
2. SEE NOTE 6.

LEFT TURN PAVEMENT MARKINGS
SCALE: N.T.S.



1. REFER TO PM(4)-10 STANDARD DETAIL FOR ADDITIONAL INFORMATION.
2. SEE NOTE 6.

DETAIL "C"
SCALE: N.T.S.

RECORD DRAWINGS
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
10/24/2013

FLOOD ZONE:

THIS SUBDIVISION LIES WITHIN ZONE "A2 & B" AS DESIGNATED IN PANEL NO. 480214-0011.C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "B" INDICATES AREAS BETWEEN THE 100-YEAR FLOOD AND THE 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO A 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE; OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD.

THIS SUBDIVISION LIES WITHIN ZONE "A2, B & C" AS DESIGNATED IN PANEL NO. 480214-0012.C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "B" INDICATES AREAS BETWEEN THE 100-YEAR FLOOD AND THE 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO A 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT OR WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE; OR AREAS PROTECTED BY LEVEES FROM THE BASE FLOOD. ZONE "C" INDICATES AREAS OF MINIMAL FLOODING.

THIS SUBDIVISION LIES WITHIN ZONE "A2 & C" AS DESIGNATED IN PANEL NO. 480214-0017.C, DATED FEBRUARY 5, 1986, OF THE FLOOD INSURANCE RATE MAPS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. ZONE "A2" INDICATES AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED. ZONE "C" INDICATES AREAS OF MINIMAL FLOODING.

BASE FLOOD ELEVATIONS SHOWN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (TO CONVERT TO CITY DATUM SUBTRACT 9.85 FT).

BENCHMARK:

FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
ELEVATION: 3936.63 (CITY OF EL PASO VERTICAL DATUM SHOWN)
3946.11 (NAVD 88 DATUM)
3945.78 (NGVD 29 DATUM)
TIE TO THE PROJECT BENCHMARK IS N00°50'52"E, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY NO. 239

| 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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 (915) 240-3220 |

**WARNING !
BEFORE YOU DIG**
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

NOTES:

1. DEVELOPER SHALL COMPLY WITH SECTION 13.08.170 (EXCESSIVE PAVING CUTS) OF THE EL PASO MUNICIPAL CODE.
2. IMPROVEMENTS SHALL NOT BE PLACED ON SIDEWALK (NDBC's, SIGNS, POLES, FIRE HYDRANTS, ETC.)
3. IMPROVEMENTS SHALL COMPLY WITH T.A.S./A.D.A. STANDARDS
4. TO CONVERT FROM NGVD 29 DATUM TO CITY OF EL PASO DATUM SUBTRACT 9.85'
5. REFER TO THE TEXAS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, STANDARDS, GUIDELINES AND DETAILS FOR ADDITIONAL INFORMATION.
6. STRIPING AND RELATED APPURTENANCES MUST COMPLY AND MEET TxDOT STANDARDS AND REGULATIONS.

LEGEND:

- NEW RETAINING ROCKWALL (2'-3' IN HEIGHT)
- NEW RETAINING ROCKWALL (3'-9' IN HEIGHT)
- 6' HIGH WROUGHT IRON FENCE WITH RETAINING/ROCKWALL
- — — — — EXISTING MINOR CONTOUR (CITY DATUM)
- — — — — EXISTING MAJOR CONTOUR (CITY DATUM)
- — — — — PROPOSED MINOR CONTOUR (CITY DATUM)
- — — — — PROPOSED MAJOR CONTOUR (CITY DATUM)

REFERENCES — BENCHMARKS

| | |
|---|------------------------------------|
| FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980" | ELEVATION: 3946.11 (NAVD 88 DATUM) |
| FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980" | ELEVATION: 3945.78 (NGVD 29 DATUM) |

TIE TO THE PROJECT BENCHMARK IS N00°50'52"E, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY NO. 239

| DATE | REVISIONS | BY |
|------|-----------|----|
| | | |

ceagroup
engineers • architects • planners
Casimier Center @ Transmountain
4712 Woodrow Bawn, Ste. F, El Paso, TX 79924
Office: 915.544.0252 Fax: 915.544.0233 www.ceagroup.net
TXDAS FIRM REGISTRATION NO. 4084

ENGINEER'S SEAL

SCALE 1"=50'

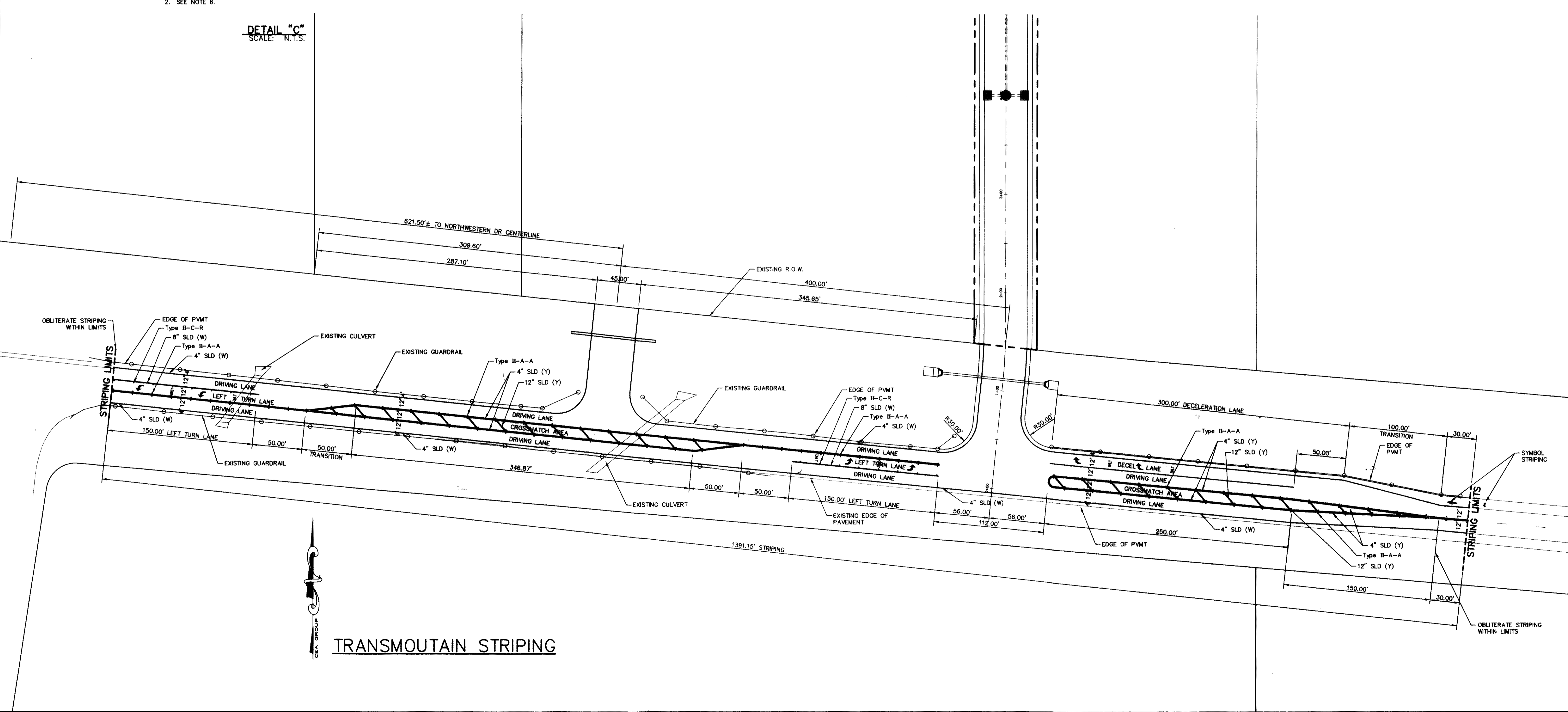
| | |
|------------------|-----|
| Horizontal | N/A |
| Vertical | N/A |
| Contour Interval | N/A |

DATE: JUNE 2012
DESIGN BY: A.H.
CHECK BY: J.M.
DRAWN BY: J.A.
SCALE: A.A.
JOB NO.: 2050-013-1D

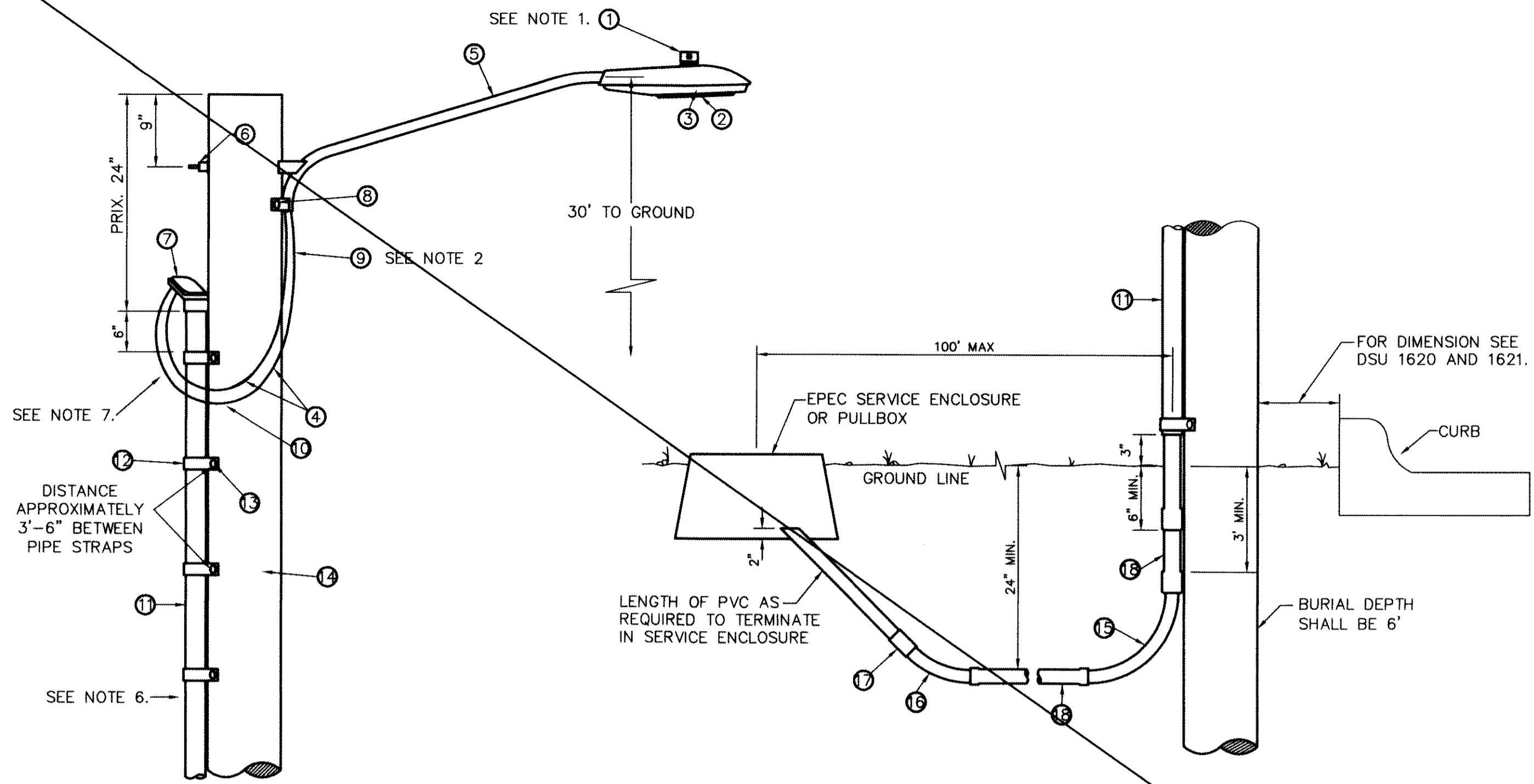
PROJECT TITLE
**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
TRANSMOUNTAIN STRIPING
(SHEET 1 OF 4)
SHEET NO.

C12.1



TRANSMOUNTAIN STRIPING



RESIDENTIAL STREET LIGHT WOOD POLE
SCALE: N.T.S.

RESIDENTIAL STREET LIGHT WOOD POLE
SCALE: N.T.S.

| ITEM No. | DESCRIPTION | STOCK No. | QTY. | C/U CODE | MACRO CODE |
|----------|---|-----------|--------|----------|------------|
| 1 | PHOTOCELL, 240V-SEE NOTE 1 | 21-225 | 1 | | |
| 2 | HPS LAMP, 100W | 21-085 | 1 | LCOBRAHD | |
| 3 | LUMINAIRE, 100W H. P. S. | 21-335 | 1 | | |
| 4 | SLEEVES, #12-10 | 05-140 | 2 | LSLV1210 | |
| 5 | MAST ARM, 6" x 1-1/4" | 21-200 | 1 | LBRTK1*6 | |
| 6 | MACHINE BOLT, 5/8" x 12" | 02-470 | 1 | | |
| | SQUARE GALV. WASHER, 2-1/4" x 2-1/4" | 02-760 | 1 | | |
| | COIL-SPRING WASHER, 5/8" | 02-786 | 1 | | |
| | LOCKNUT, 5/8" | 02-705 | 1 | | |
| 7 | SERVICE ENTRANCE CAP FOR 1" PVC CONDUIT | 17-281 | 1 | LSVCCAP1 | LCOBRAUG |
| 8 | LAG BOLT, 3/8" x 3" | 02-343 | 2 | LLAG38*3 | |
| 9 | CABLE #10, 2 CONDUCTOR, 600 V, UF | 13-600 | 8' | L2C#10S | |
| 10 | COPPER CABLE, #12, SOLID, 600 V, BLUE | 13-702 | 60' | LC#12CU | |
| 11 | SCHEDULE 80 1" PVC CONDUIT | 17-280 | 30' | LSCH801 | |
| 12 | PIPE STRAP FOR 1" PVC CONDUIT, 2-HOLE | 17-283 | 9 | LPVCSTRP | |
| 13 | NAIL, STAINLESS STEEL SCREW 2.5 IN. | 14-427 | .25# | LNAL14*2 | |
| 14 | POLE, 35 FT.-CLASS IV | 09-035 | 1 | L354UG | |
| 15 | 1" PVC 90 DEGREE ELBOW | 17-297 | 1 | LEL901 | |
| 16 | 1" PVC 45 DEGREE ELBOW | 17-298 | 1 | LEL451 | |
| 17 | 1" PVC COUPLING | 17-296 | 1 | LCPLG1 | |
| 18 | 1" PVC CONDUIT | 17-299 | AS REQ | LPVC1 | |

KEYED NOTES:

- MOUNT SO THAT PHOTO CELL IS FACING NORTH.
- ITEM #9 SHALL NOT BE SPLICED INSIDE ITEM #5.
- INSTALLATION MUST COMPLY WITH LOCAL CODE REQUIREMENTS.
- FOR ANY CLARIFICATION, EXCEPTIONS OR QUESTIONS REGARDING THIS STANDARD, CALL THE EL PASO ELECTRIC COMPANY DISTRIBUTION DESIGN DEPARTMENT.
- ON STREETS WHERE SIDEWALK IS ADJACENT TO CURB, STREET LIGHT POLE SHALL BE INSTALLED IN THE SIDEWALK NEXT TO PROPERTY LINE. THIRTY-SIX (36") INCHES REQUIRED FROM BACK OF CURB TO COMPLY WITH AMERICAN DISABILITY'S ACT AND LOCAL CODES.
- THE CONDUIT RISER SHALL BE INSTALLED ON THE BACK OF THE WOOD POLE (AWAY FROM THE STREET).
- THE WIRE LEADS FROM THE WEATHER HEAD TO THE MAST ARM SHALL HAVE A MINIMUM 4" DRIP LOOP BELOW THE WEATHER HEAD.

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
 ONEOK PARTNERS (915) 595-6918
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750
 (AFTER HOURS) (915) 240-3220

WARNING! BEFORE YOU DIG
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 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

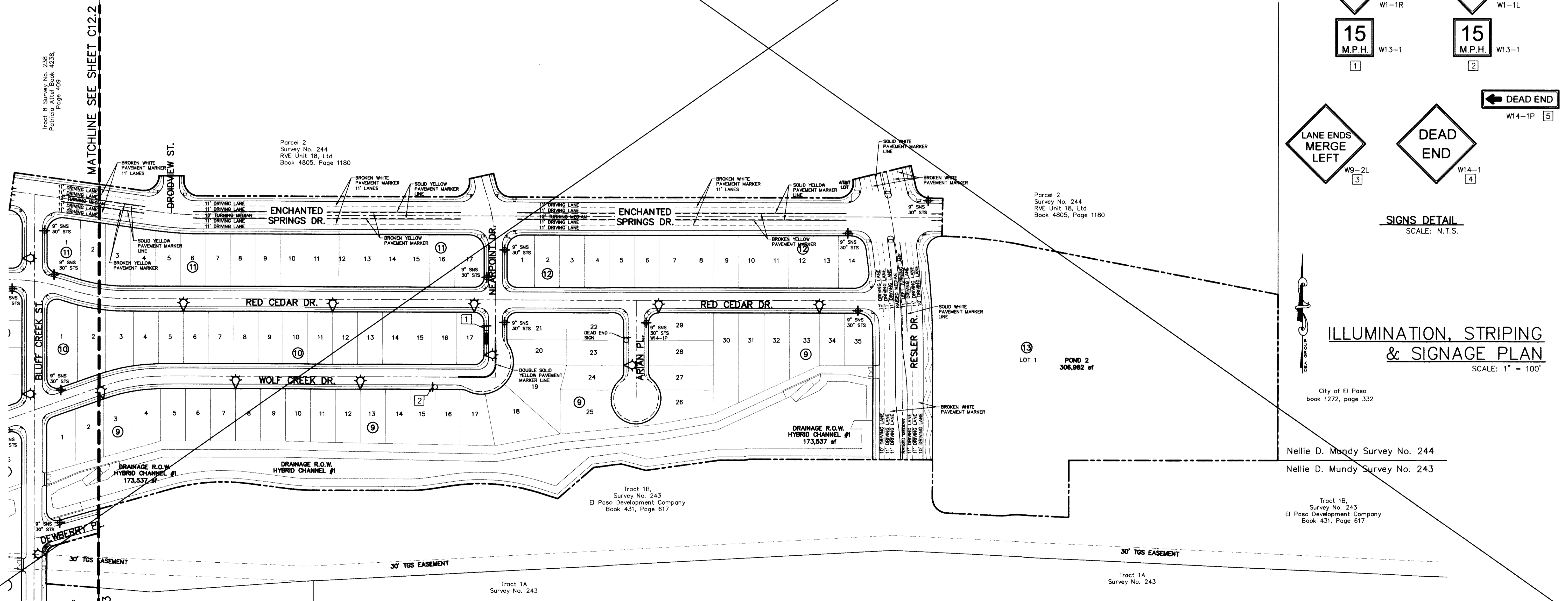
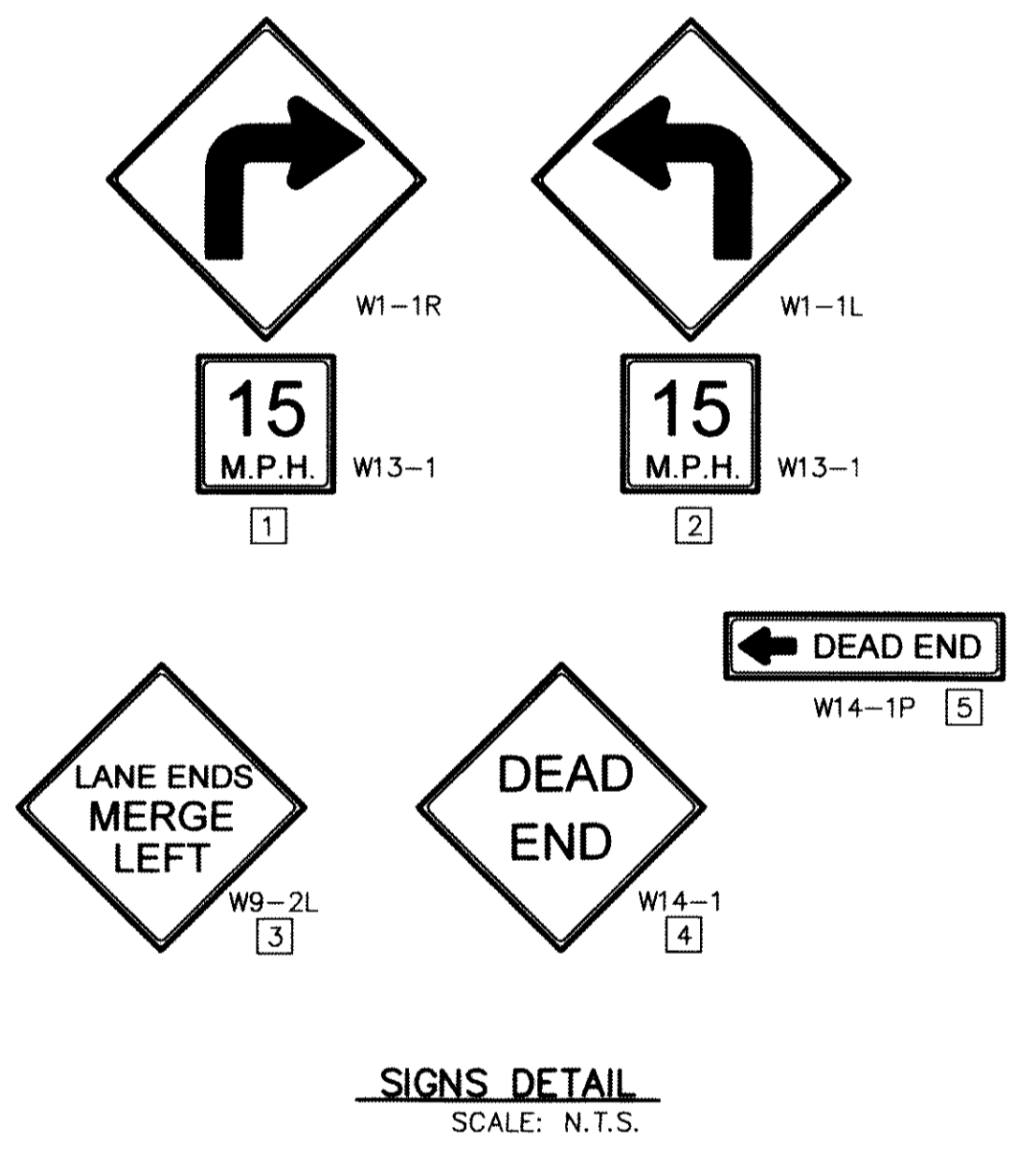
RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013
 REFERENCE SUBDIVISION PHASE II

LEGEND:

- PROPOSED RESIDENTIAL STREET LIGHT
- PROPOSED 6" STREET NAMES AND 30" STOP SIGN
- PROPOSED 9" STREET NAMES AND 30" STOP SIGN
- PROPOSED 9" STREET NAME SIGN (TWO SIGNS)
- NO OUTLET SIGN
- PROPOSED N.D.B.C.U. MAIL BOX

NOTES

- TRAFFIC STREET SIGNS MUST BE OF HIGH INTENSITY REFLECTIVE SHEETING.
- TEXT SIZES, FONTS, COLORS, ETC. MUST BE AS PER MUTCD STANDARDS & REQUIREMENTS
- SIGNS & STRIPING SHOULD COMPLY WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ANY STRIPING, SIGNS, ETC WITHIN TxDOT ROW SHALL COMPLY W/TxDOT STANDARDS & REQUIREMENTS
- POSTS MUST BE BREAK-AWAY TYPE AS SHOWN ON THIS SHEET



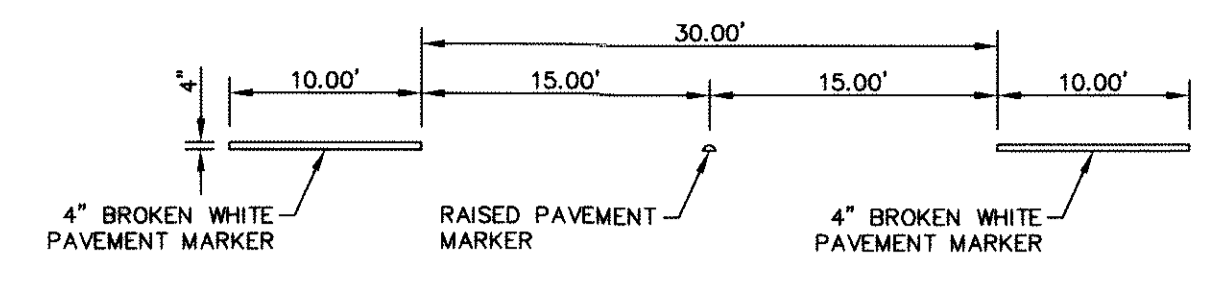
REFERENCES - BENCHMARKS
 FOUND N.A.S. SURVEY MARKER STAMPED "OHIO 1980"
 3946.11 CITY OF EL PASO VERTICAL DATUM
 ELEVATION: 3946.11 (NAVD 88 DATUM)
 3946.78 (NAVD 29 DATUM)
 BE TO THE PROJECT BENCHMARK IS MOP-56597E, 3.020831
 BE TO THE PROJECT BENCHMARK IS MOP-56597E, 3.020831
 CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY NO. 239
 DATE _____ BY _____

CEA
 engineers • architects • planners
 Castner Center @ Transmountain
 4712 Woodrow Ben. St. El Paso, TX 79924
 Office: 915.544.5202 Fax: 915.544.0233 www.ceagroup.net
 TEXAS PROFESSIONAL REGISTRATION NO. 4984

ENGINEER'S SEAL
 SCALE: Horizontal: 1"=100' N/A
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHECKED BY: J.M.
 JOB NO. 2050-013-LD

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**ILLUMINATION, STRIPING &
 SIGNAGE PLAN**
 (SHEET 3 OF 4)
 SHEET NO.
C12.3



4" BROKEN WHITE PVMT MARKER TYP.
SCALE: 1" = 1'

NOTE:
SIGNS & STRIPING SHOULD COMPLY WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

RECORD DRAWINGS
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10/24/2013
REFERENCE SUBDIVISION PHASE II

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|--|----------------|
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| 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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

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1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

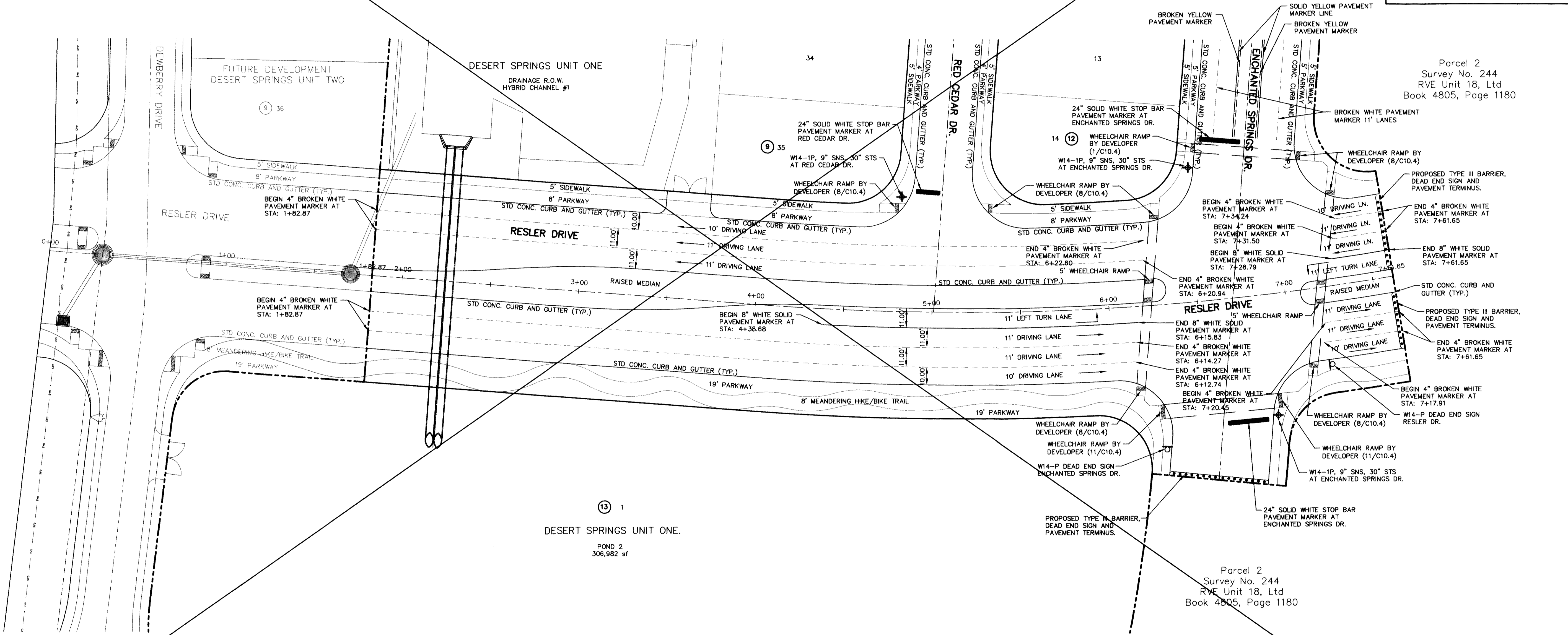
LEGEND:

| | |
|--|--|
| | EXISTING RESIDENTIAL STREET LIGHT |
| | PROPOSED RESIDENTIAL STREET LIGHT |
| | PROPOSED 6" STREET NAMES AND 30" STOP SIGN |
| | EXISTING 9" STREET NAMES AND 30" STOP SIGN |
| | PROPOSED 9" STREET NAMES AND 30" STOP SIGN |
| | EXISTING 9" STREET NAME SIGN (TWO SIGNS) |
| | PROPOSED 9" STREET NAME SIGN (TWO SIGNS) |
| | NO OUTLET SIGN |
| | PROPOSED N.D.B.C.U. MAIL BOX |
| | 5-FT ACCESSIBLE PEDESTRIAN ROUTE |

REFERENCES — BENCHMARKS

| | | | |
|---|--|-------------------------|--|
| FOUND N.S.S. SURVEY MARKER (STANDARD "CINQUE 1880" SHOW) | 3845.83 (CITY OF EL PASO VERTICAL DATUM ELEVATION) | 3946.11 (NAVD 88 DATUM) | |
| TIE TO THE PROJECT BENCHMARK IS N0052957E, 3.02083 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. HUNDT SURVEY No. 239 | | | |
| DATE | REVISIONS | BY | |

o e a
engineers • architects • planners
Center @ Transmountain
4712 MacArthur Blvd., Suite 100
El Paso, TX 79964
915.763.4555
OEA GROUP, INC. LICENSE NO. 12263
TEXAS FIRM REGISTRATION NO. 4884



Parcel 2
Survey No. 244
RVE Unit 18, Ltd
Book 4805, Page 1180

ENGINEER'S SEAL

SCALE: 1" = 30'

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

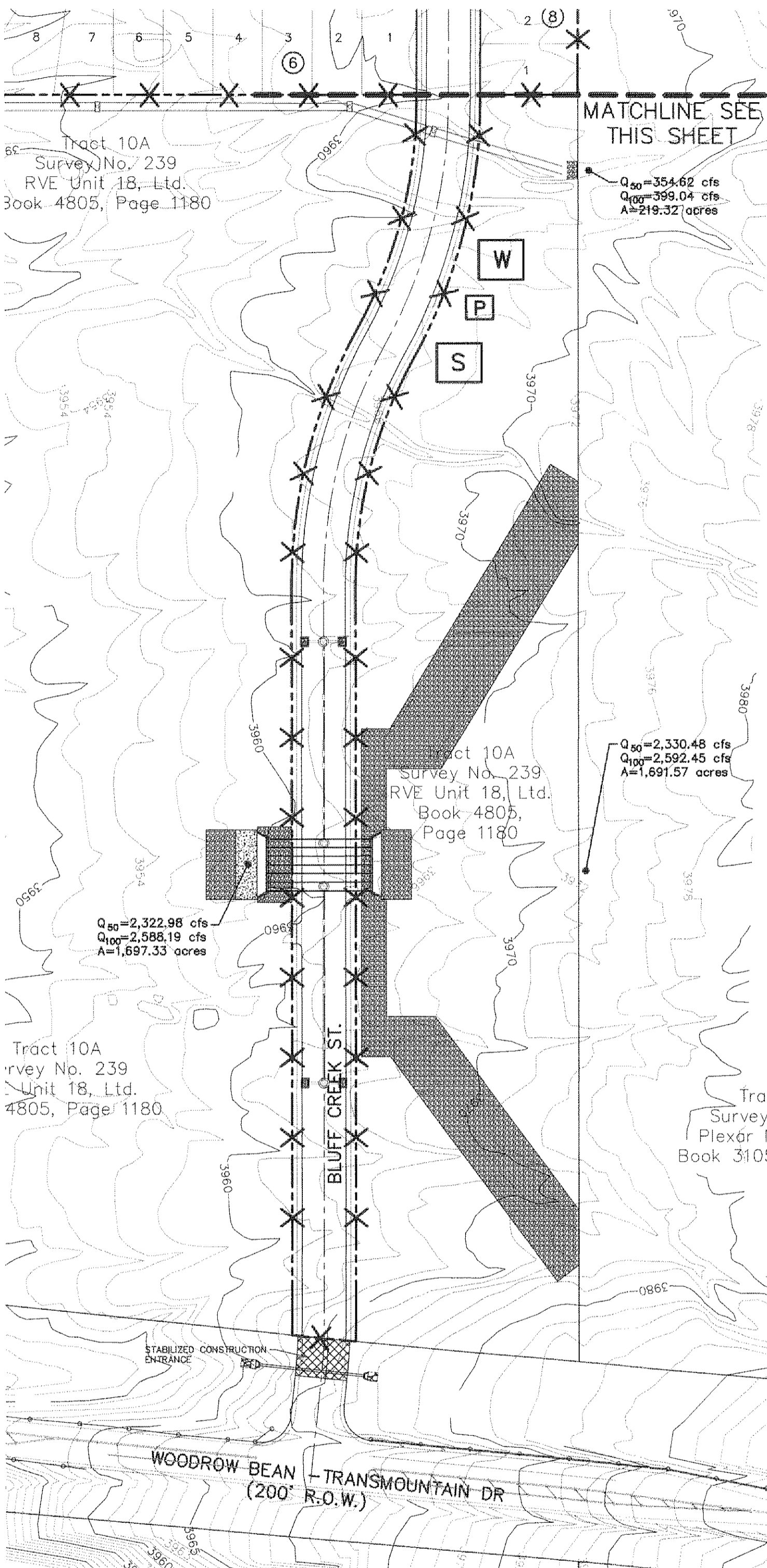
DATE: MAY 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APP'D. BY: A.H.
JOB No. 2050-013-ID

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**ILLUMINATION,
SIGNAGE &
STRIPING PLAN**
(SHEET 4 OF 4)
SHEET NO.

C12.4

**ILLUMINATION &
SIGNAGE PLAN**
SCALE: 1" = 30'

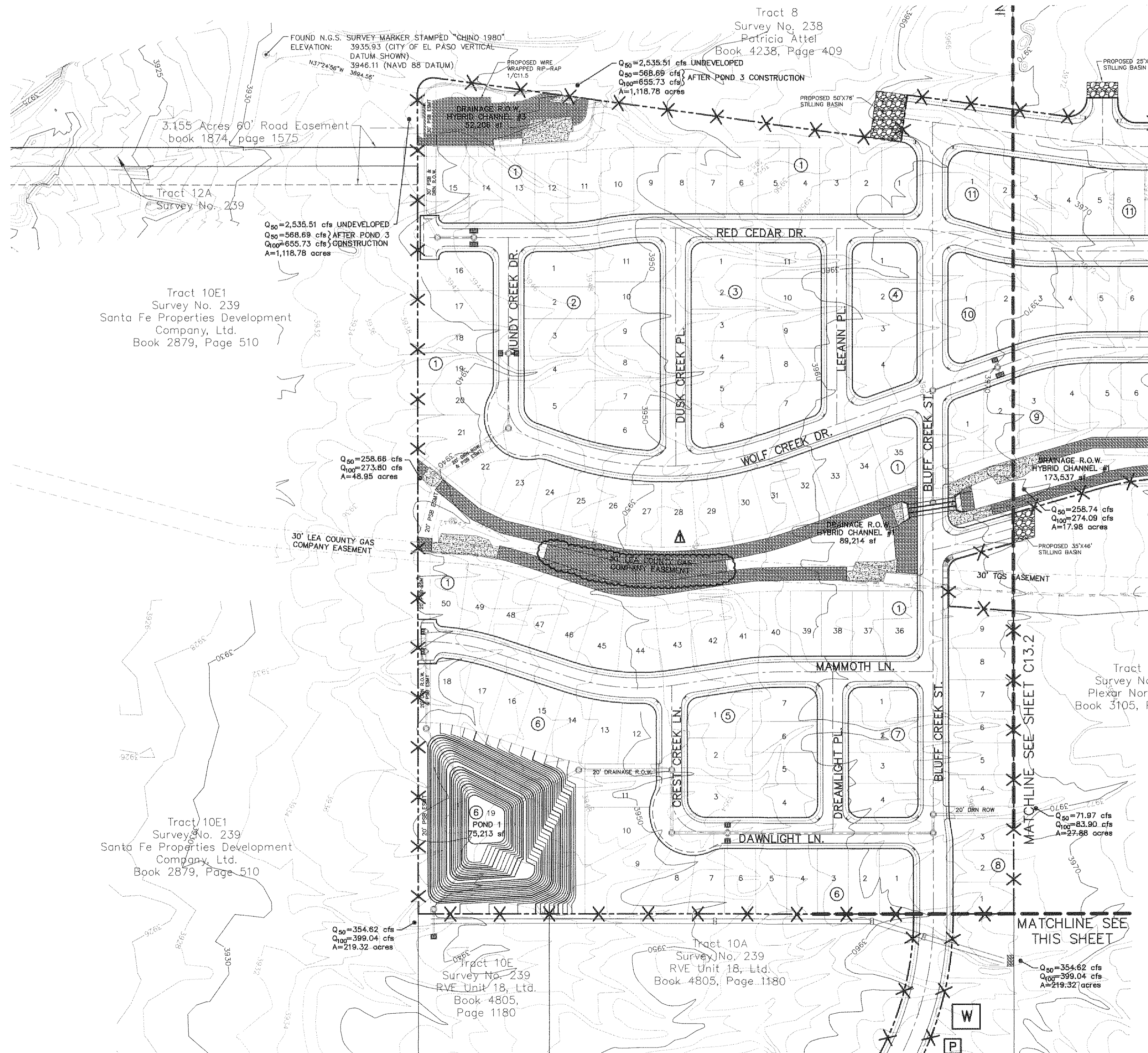


SWPPP SITE PLAN
SCALE: 1" = 100'

Tract 10A
Survey No. 239
Unit 18, Ltd.
Book 4805, Page 1180

Tract 10A
Survey No. 239
RVE Unit 18, Ltd.
Book 4805, Page 1180

Tract 10A
Survey No. 239
RVE Unit 18, Ltd.
Book 4805, Page 1180



Tract 10E1
Survey No. 239
Santa Fe Properties Development
Company, Ltd.
Book 2879, Page 510

Tract 10E1
Survey No. 239
Santa Fe Properties Development
Company, Ltd.
Book 2879, Page 510

Tract 8
Survey No. 238
Patricia Attel
Book 4238, Page 409

Tract 1
Survey No.
Plexar North
Book 3105, P

Tract 10E
Survey No. 239
RVE Unit 18, Ltd.
Book 4805, Page 1180

Tract 10A
Survey No. 239
RVE Unit 18, Ltd.
Book 4805, Page 1180

Q50=354.62 cfs
Q100=399.04 cfs
A=219.32 acres

Q50=258.68 cfs
Q100=273.80 cfs
A=48.95 acres

Q50=2,535.51 cfs UNDEVELOPED
Q50=568.69 cfs AFTER POND 3
Q100=655.73 cfs CONSTRUCTION
A=1,118.78 acres

Q50=2,535.51 cfs UNDEVELOPED
Q50=568.69 cfs AFTER POND 3 CONSTRUCTION
Q100=655.73 cfs
A=1,118.78 acres

Q50=258.74 cfs
Q100=274.08 cfs
A=17.96 acres

Q50=71.97 cfs
Q100=83.90 cfs
A=27.69 acres

Q50=354.62 cfs
Q100=399.04 cfs
A=219.32 acres

SWPPP NOTES:

- BEGIN CONSTRUCTION ACTIVITIES AT PONDING AREAS. PONDING AREAS ARE TO BE EIGHTY-FIVE (85%) PERCENT COMPLETE PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES FOR THE REMAINING OF SUBDIVISION.
- ALL CONSTRUCTION PRACTICES AND PROCEDURES WILL COMPLY WITH THE PERTINENT PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH STANDARD (TITLE 29, CODE OF FEDERAL REGULATIONS) PUBLISHED BY THE OSHA, DEPARTMENT OF LABOR.
- THE CONTRACTOR SHALL FIELD VERIFY ELEVATIONS, MEASUREMENTS AND EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. NOTIFY THE ENGINEER PROMPTLY OF ANY OMISSIONS, ERRORS, OR DISCREPANCIES FOUND SO THAT NECESSARY CORRECTIONS AND INTERPRETATIONS BE MADE PRIOR TO CONSTRUCTION.

RECORD DRAWINGS

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10/24/2013

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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3766 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING I BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

A PORTION OF NELLIE D. MUNDY SURVEY No. 238, No. 239 AND No. 244, TRACT 8, LOT 10A, 10E, 12, 13, CITY OF EL PASO, EL PASO COUNTY, TEXAS 59.34 ACRES±

- LEGEND**
- X—X SILT FENCE OR EARTHEN BERM
 - [Hatched Box] STABILIZED CONSTRUCTION ENTRANCE
 - [S] STAGING AREA
 - [P] PORTABLE TOILETS
 - [W] WASHOUT SITE

REFERENCES — BENCHMARKS

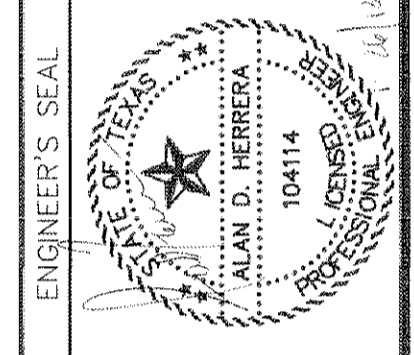
FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980" ELEVATION: 3935.93 (CITY OF EL PASO VERTICAL DATUM) 3946.11 (NAVD 88 DATUM) 3945.78 (NAVD 88 DATUM)

SEE TO THE PROJECT BEING PERFORMED FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

DATE: _____ REVISIONS: _____ BY: _____

AWARDED BOTTOM OF CHANNEL REVISION: AJH

CEA
engineers • architects • planners
Customer Center @ Transmountain
4712 Woodrow Bean, Ste. F El Paso, TX 79924
Office: 915.544.5232 Fax: 915.544.5233 www.ceagroup.net
TXSOS FROM REGISTRATION NO. 068



ENGINEER'S SEAL

SCALE: 1"=100'

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

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.W.
CHKD. BY: J.L.A.
APPVD. BY: A.H.

JOB NO. 20500-013-1-D

DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

STORM WATER PREVENTION PLAN: SITE PLAN
(SHEET 1 OF 2)

SHEET NO.

SDPCP #: _____
SDPCP DATE: _____

C13.2R

NOTES:

- BEGIN CONSTRUCTION ACTIVITIES AT PONDING AREAS. PONDING AREAS ARE TO BE EIGHTY-FIVE (85%) PERCENT COMPLETE PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES FOR THE REMAINING OF SUBDIVISION.
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 10/24/2013

UTILITY LOCATOR SERVICES
 EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 495-5244
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 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (915) 680-7200
 ONEOK PARTNERS (915) 595-6918
 AT&T (800) 852-3786
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 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750
 (AFTER HOURS) (915) 240-3220

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 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

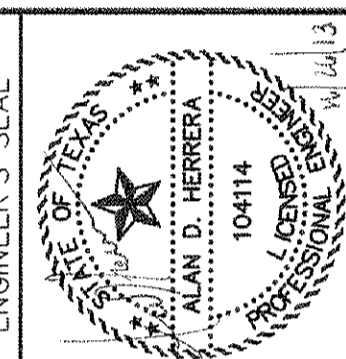
A PORTION OF NELLIE D. MUNDY SURVEY No. 238, No. 239 AND No. 244, TRACT 8, LOT 10A, 10E, 12, 13, CITY OF EL PASO, EL PASO COUNTY, TEXAS 59.34 ACRES±

LEGEND

- X—X SILT FENCE OR EARTHEN BERM
- [Hatched Box] STABILIZED CONSTRUCTION ENTRANCE
- [S] STAGING AREA
- [P] PORTABLE TOILETS
- [W] WASHOUT SITE

REFERENCES — BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "ROUND 1980"
 ELEVATION: SURVEY CITY OF EL PASO VERTICAL DATUM
 SHOWN
 3946.11 (NAD 83 DATUM)
 3945.78 (NAD 29 DATUM)
 BE TO THE PROX. 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239
 DATE: _____ REVISIONS: _____ BY: _____

osa
 engineers • architects • planners
 Casstner Center @ Transmountain
 4712 Woodrow Bean, Ste. F, El Paso, TX 79924
 OEA REGISTRATION NO. 458
 TEXAS PRM REGISTRATION NO. 458



SCALE: 1" = 100'
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APPVD. BY: A.H.
 JOB No.: 2050-013-LD

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

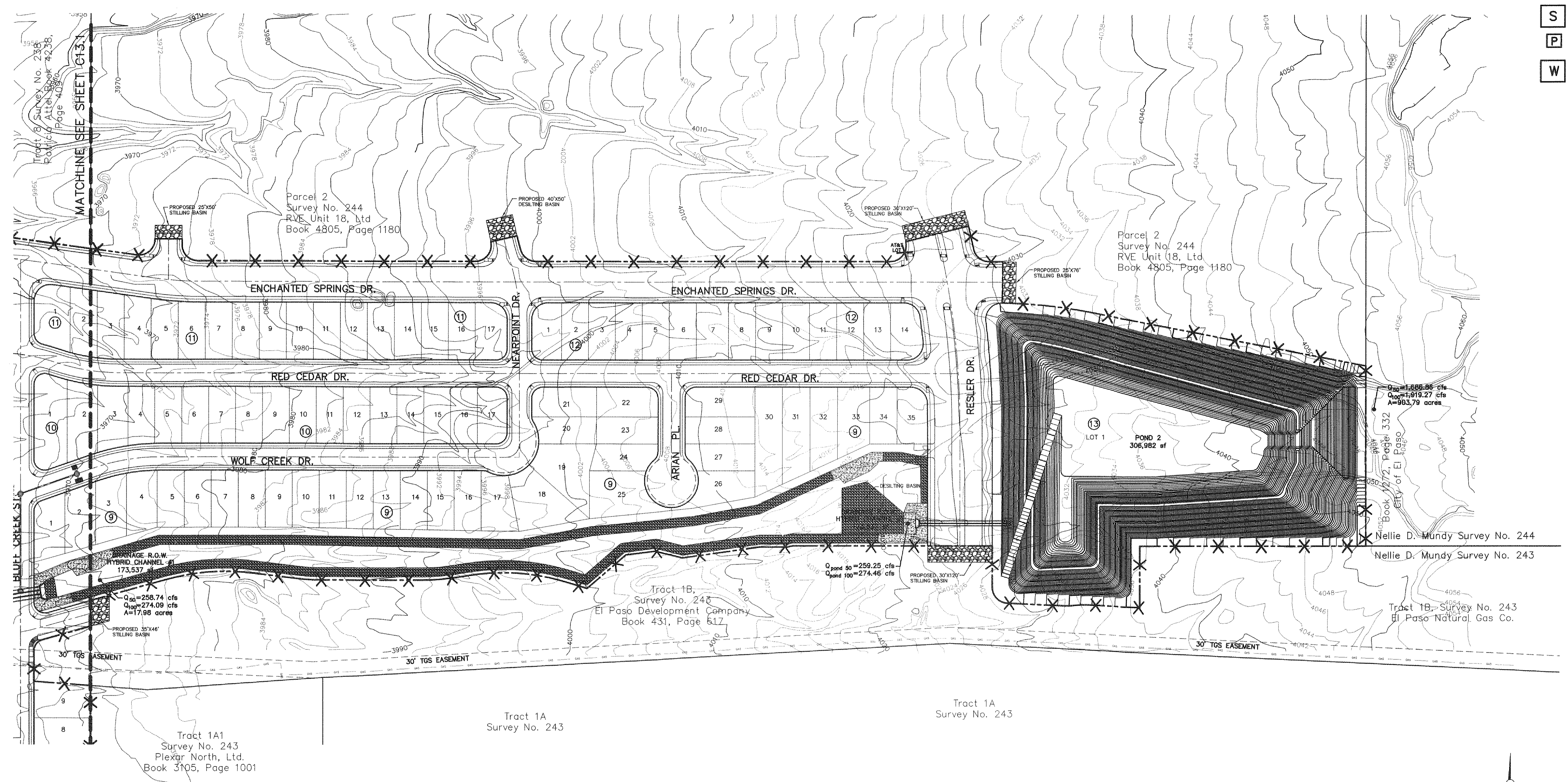
STORM WATER POLLUTION PREVENTION PLAN: SITE PLAN

(SHEET 2 OF 2)
 SHEET NO.

C13.3

SWPPP SITE PLAN
 SCALE: 1" = 100'

SDPCP #: _____
 SDPCP DATE: _____



Tract 9 Survey No. 238
 Rollway Altel, Book 4238,
 Page 408

Parcel 2
 Survey No. 244
 RVE Unit 18, Ltd
 Book 4805, Page 1180

Parcel 2
 Survey No. 244
 RVE Unit 18, Ltd
 Book 4805, Page 1180

Tract 1B,
 Survey No. 240
 El Paso Development Company
 Book 431, Page 617

Tract 1A1
 Survey No. 243
 Plexar North, Ltd.
 Book 3105, Page 1001

Tract 1A
 Survey No. 243

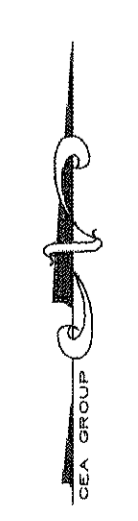
Tract 1A
 Survey No. 243

Nellie D. Mundy Survey No. 244
 Nellie D. Mundy Survey No. 243

Tract 1B, Survey No. 243
 El Paso Natural Gas Co.

BLUFF CREEK SITE

MATCHLINE SEE SHEET C13.1



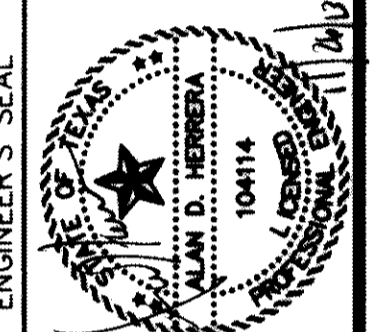
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| (AFTER HOURS) | (915) 240-3220 |

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

| REFERENCES - BENCHMARKS | BY |
|---|----|
| FOUND N.E.S. SURVEY MARKER STAMPED "CHINO 1880" | |
| ELEVATION: 3946.11 | |
| 3946.11 (NAD 83 DATUM) | |
| 3946.11 (NAD 83 DATUM) | |
| TIE TO THE PROJECT BENCHMARK IS N0050327E, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239 | |
| DATE | |
| REVISIONS | |

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 engineers • architects • planners
 Casstner Center @ Transmountain
 104114 TX
 Other: 915.544.5232 Fax: 915.544.5233 www.ceagroup.com
 TEXAS FIRM REGISTRATION NO. 4984



| SCALE | N/A |
|------------------|-------------|
| Horizontal | N/A |
| Vertical | N/A |
| Contour Interval | N/A |
| DATE | JUNE 2012 |
| DESIGN BY | A.H. |
| DRAWN BY | J.M. |
| CHKD. BY | J.L.A. |
| APPVD. BY | A.H. |
| JOB No. | 2050-013-LD |

PROJECT TITLE
DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SHEET TITLE
STORM WATER POLLUTION PREVENTION PLAN: DETAILS

SHEET NO.
C13.4

ROCK FILTER DAM USAGE GUIDELINES

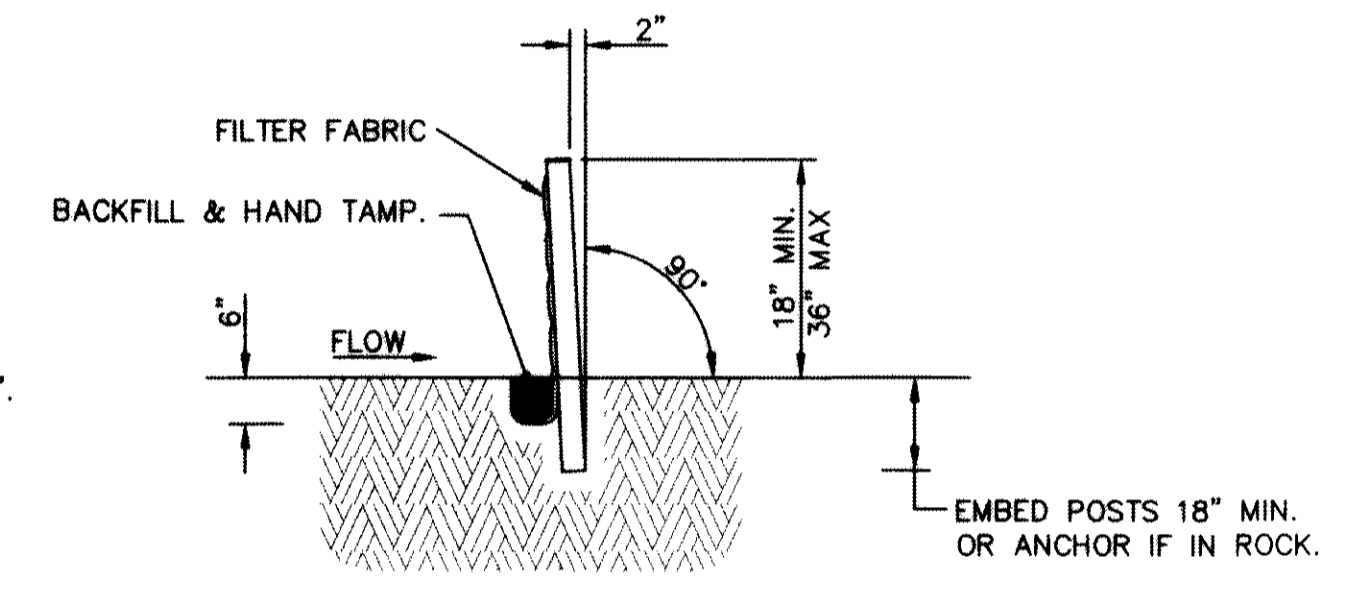
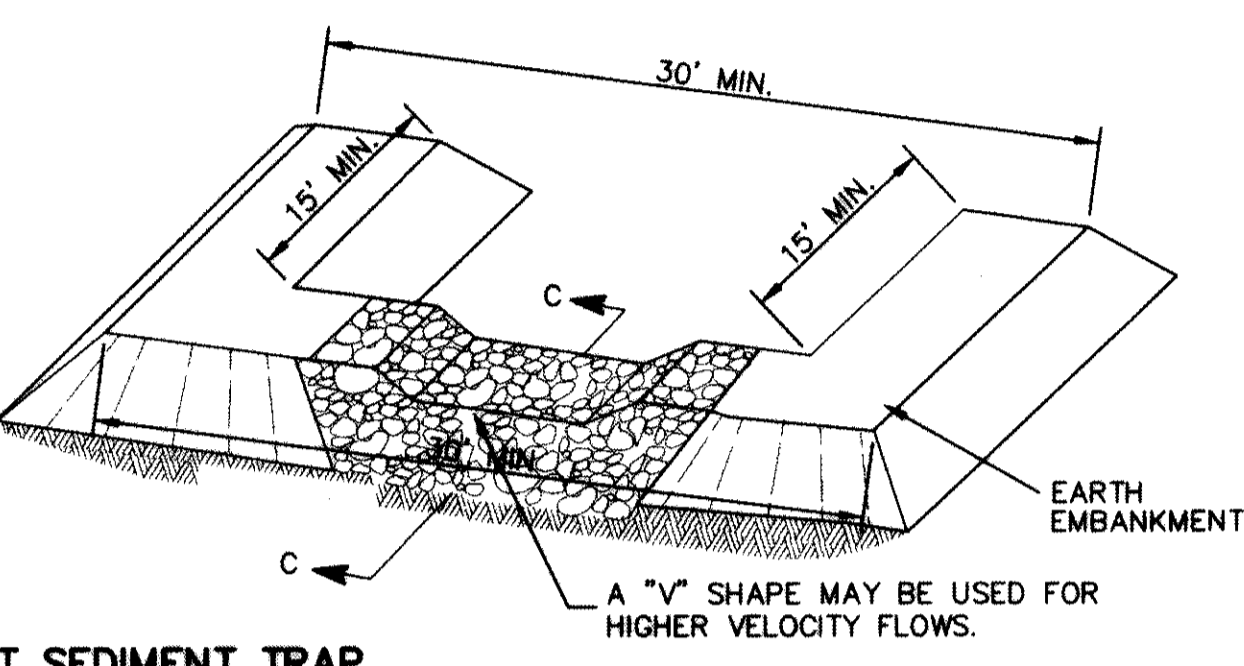
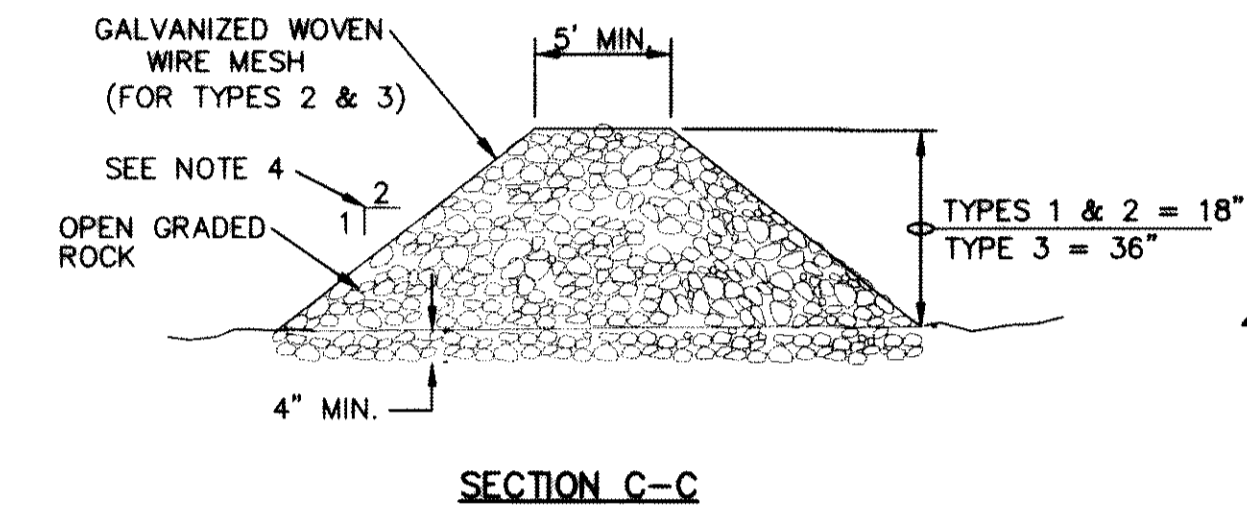
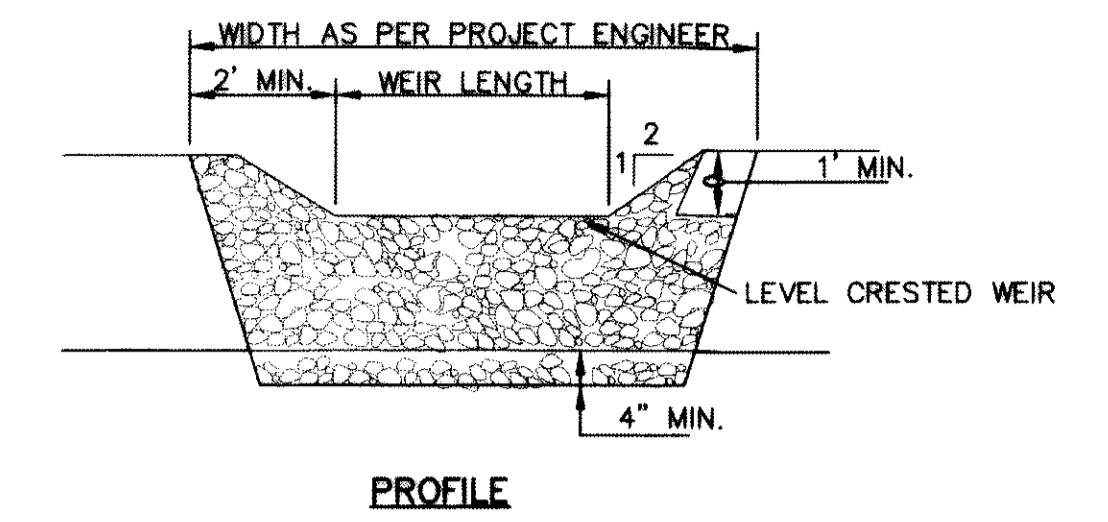
ROCK FILTER DAMS SHOULD BE CONSTRUCTED DOWNSTREAM FROM DISTURBED AREAS TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF AND/OR CONCENTRATED FLOW. THE DAMS SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THROUGH RATE OF 60 GPM/FT² OF CROSS SECTIONAL AREA. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE.

TYPE 1 (18" HIGH WITH NO WIRE MESH): TYPE 1 MAY BE USED AT THE TOE OF SLOPES, AROUND INLETS, IN SMALL DITCHES, AND AT DIKE OR SWALE OUTLETS. THIS TYPE OF DAM IS RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA OF 5 ACRES OR LESS. TYPE 1 MAY NOT BE USED IN CONCENTRATED HIGH VELOCITY FLOWS (APPROX. 8 FT/SEC OR MORE) IN WHICH AGGREGATE WASH OUT MAY OCCUR. SANDBAGS MAY BE USED AT THE EMBEDDED FOUNDATION (4" DEEP MIN.) FOR BETTER FILTERING EFFICIENCY OF LOW FLOWS IF CALLED FOR ON THE PLANS OR DIRECTED BY THE ENGINEER.

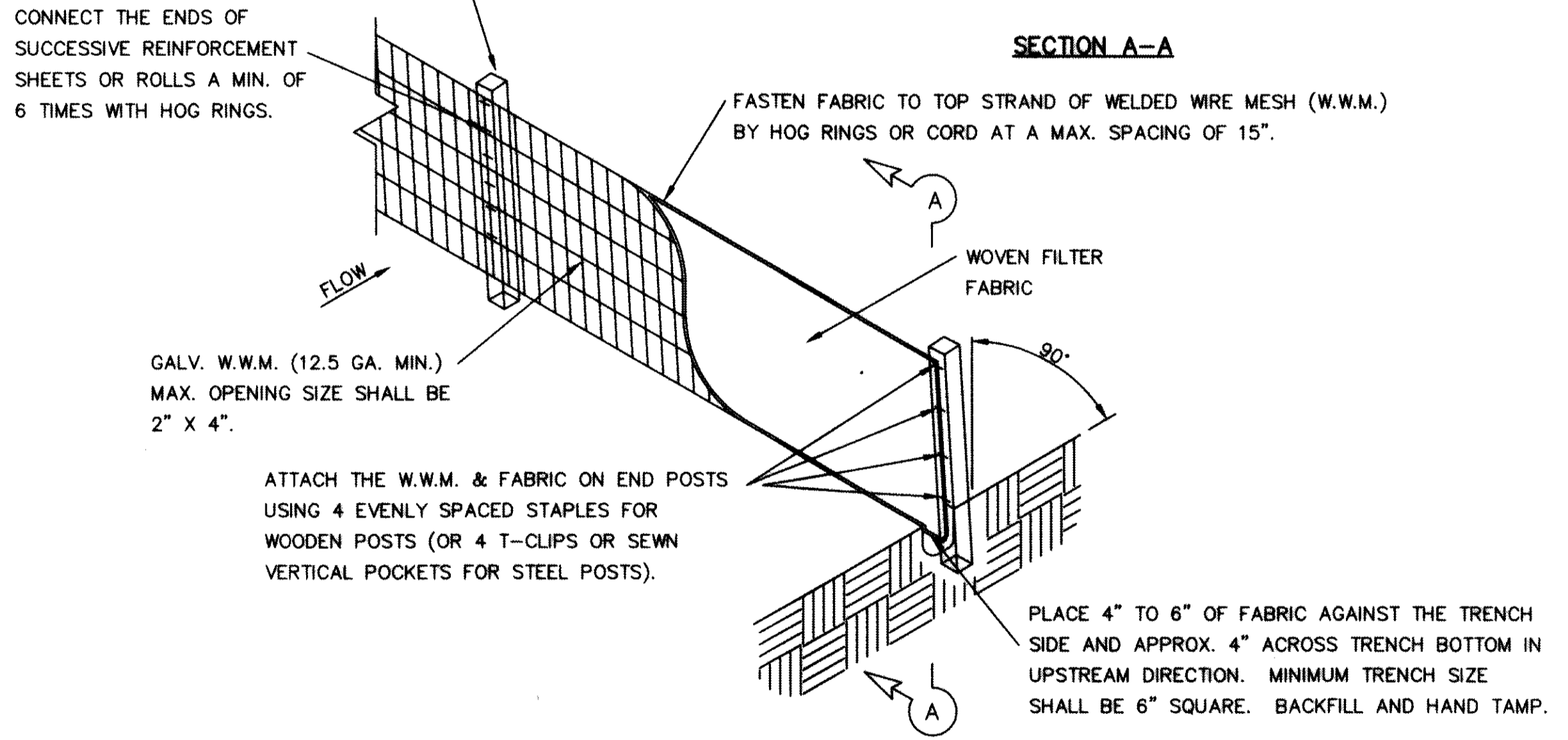
TYPE 2 (18" HIGH WITH WIRE MESH): TYPE 2 MAY BE USED IN DITCHES AND AT DIKE OR SWALE OUTLETS.

TYPE 3 (36" HIGH WITH WIRE MESH): TYPE 3 MAY BE USED IN STREAM FLOW AND SHOULD BE SECURED TO THE STREAM BED.

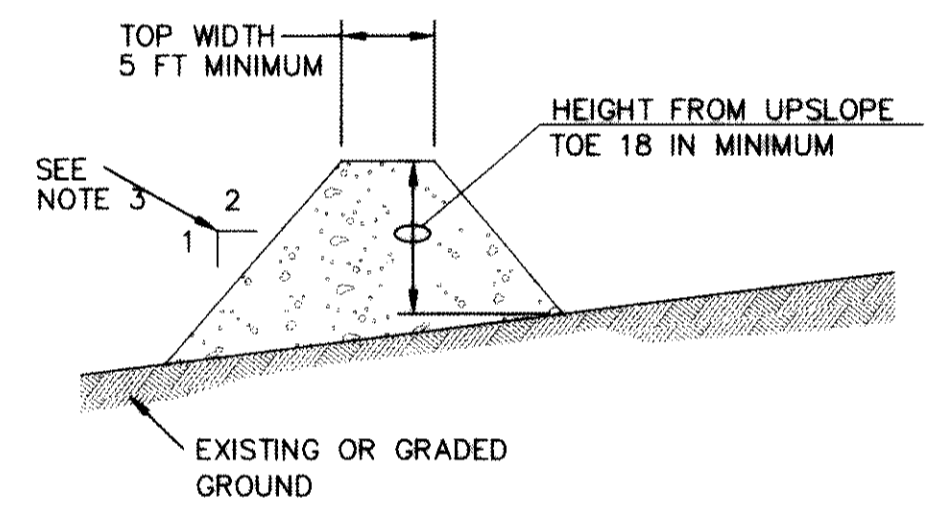
TYPE 4 (SACK GABIONS): TYPE 4 MAY BE USED IN DITCHES AND SMALLER CHANNELS TO FORM AN EROSION CONTROL DAM.



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".

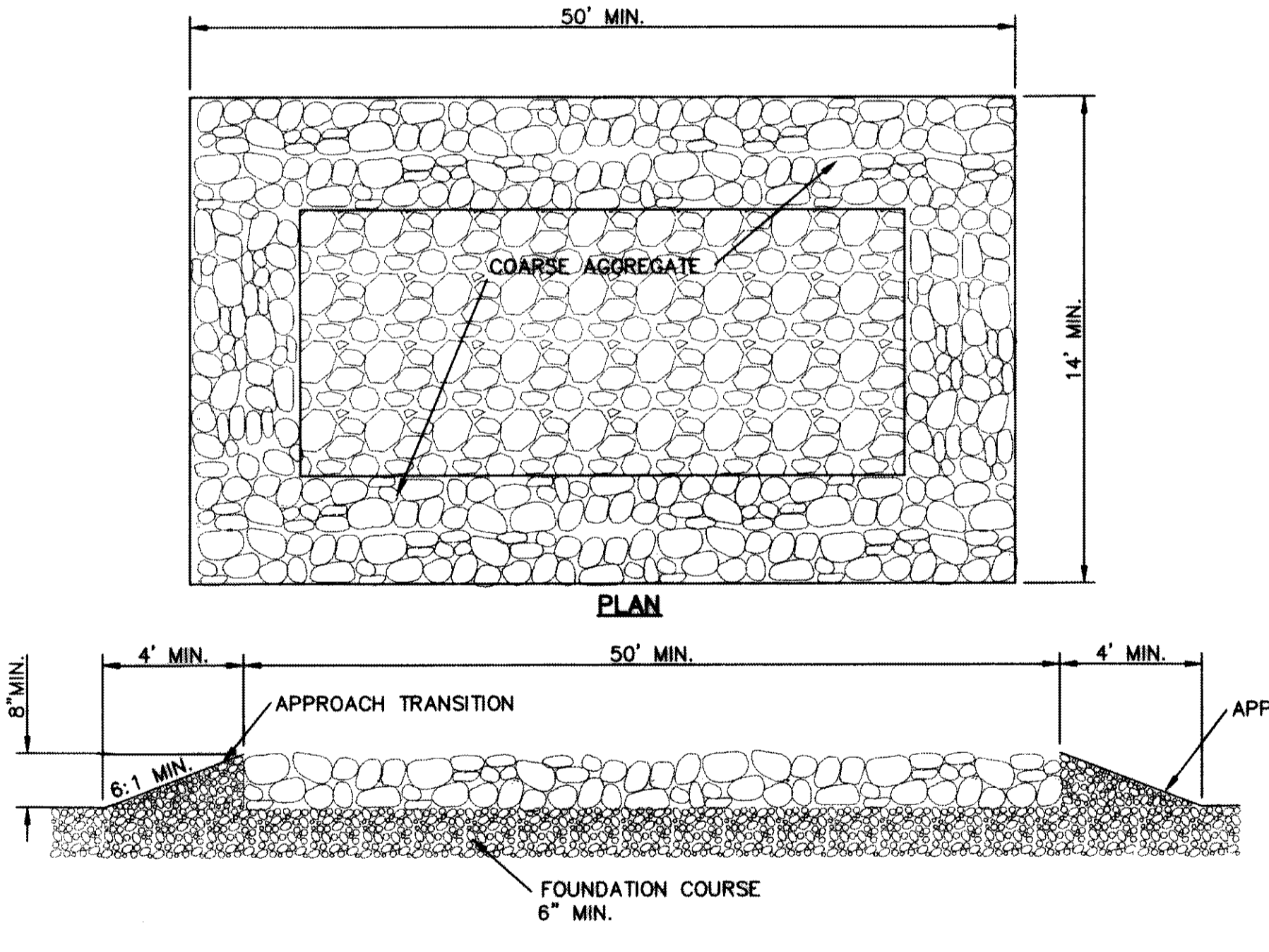


TEMPORARY SEDIMENT CONTROL FENCE



- GENERAL NOTES:**
- SOIL USED IN BERM CONSTRUCTION SHALL BE MACHINE COMPACTED.
 - TOP WIDTH AND HEIGHT OF BERM MAY BE MODIFIED WITH PRIOR APPROVAL OF THE ENGINEER.
 - SIDE SLOPES WITHIN THE SAFETY CLEAR ZONE OF A ROADWAY SHALL BE 6:1 OR FLATTER.
 - GRADING SHALL BE SHOWN ELSEWHERE IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
 - THE ENGINEER RESERVES THE RIGHT TO MODIFY THE DIMENSIONS SHOWN FOR THE BERM DEPENDENT ON RUNOFF VOLUME CHARACTERISTICS.
 - BERM THAT ARE IN PLACE FOR MORE THAN 14 CALENDAR DAYS SHOULD BE STABILIZED TO PREVENT SEDIMENT RUNOFF.
 - THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

TYPICAL BERM CONFIGURATION



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

CONSTRUCTION EXIT (TYPE 1)

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 10/24/2013

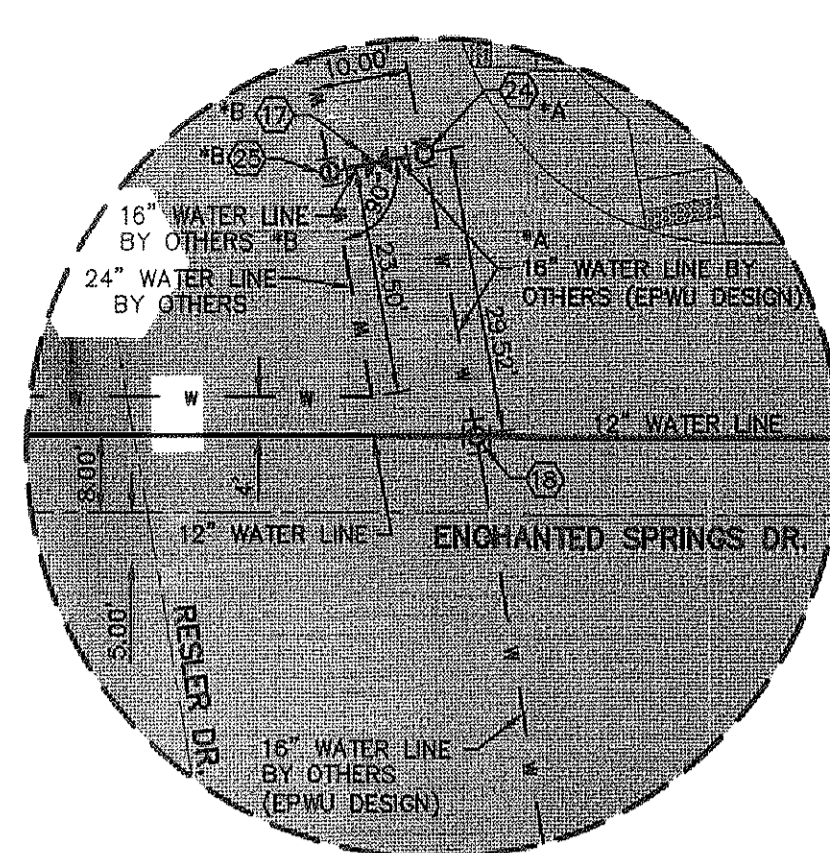
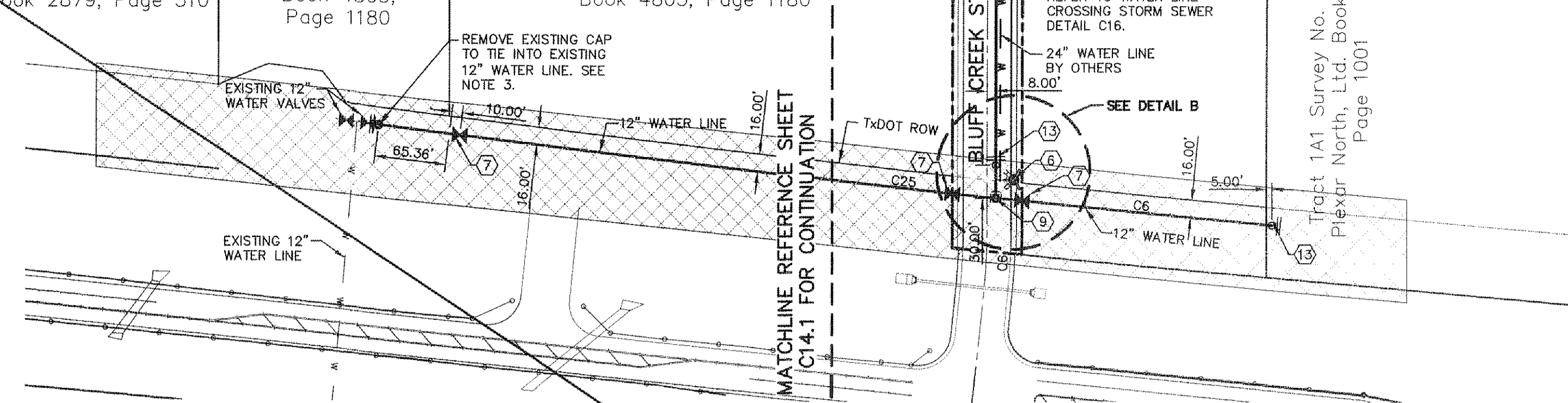
THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPWU PHASE II.

Tract 10E1 Survey No. 239 Santa Fe Properties Development Company, Ltd. Book 2879, Page 510

Tract 10E Survey No. 239 RVE Unit 18, Ltd. Book 4805, Page 1180

Tract 10A Survey No. 239 RVE Unit 18, Ltd. Book 4805, Page 1180

WATER LINE
 SCALE: 1" = 100'



DETAIL C
 SCALE: 1" = 100'

PHASE I
 PHASE II
 PHASE III

*A BY OTHERS (EPWU DESIGN)
 *B BY OTHERS (SEPARATE CONTRACT)
 *C 12" CAP BY OTHERS TO BE REMOVED AS PER CONSTRUCTION OF DSU-1 12" WATER LINE

INDEX

| SHEET NO. | DESCRIPTION |
|-----------|---|
| C14.2 | DESERT SPRINGS UNIT ONE WATER MAIN PIPE LAYOUT (SHEET 2 OF 3) |
| C16.1 | WATER DETAILS |
| C16.2 | WATER DETAILS |
| C16.3 | WATER DETAILS |
| C16.4 | WATER DETAILS |

NOTES:

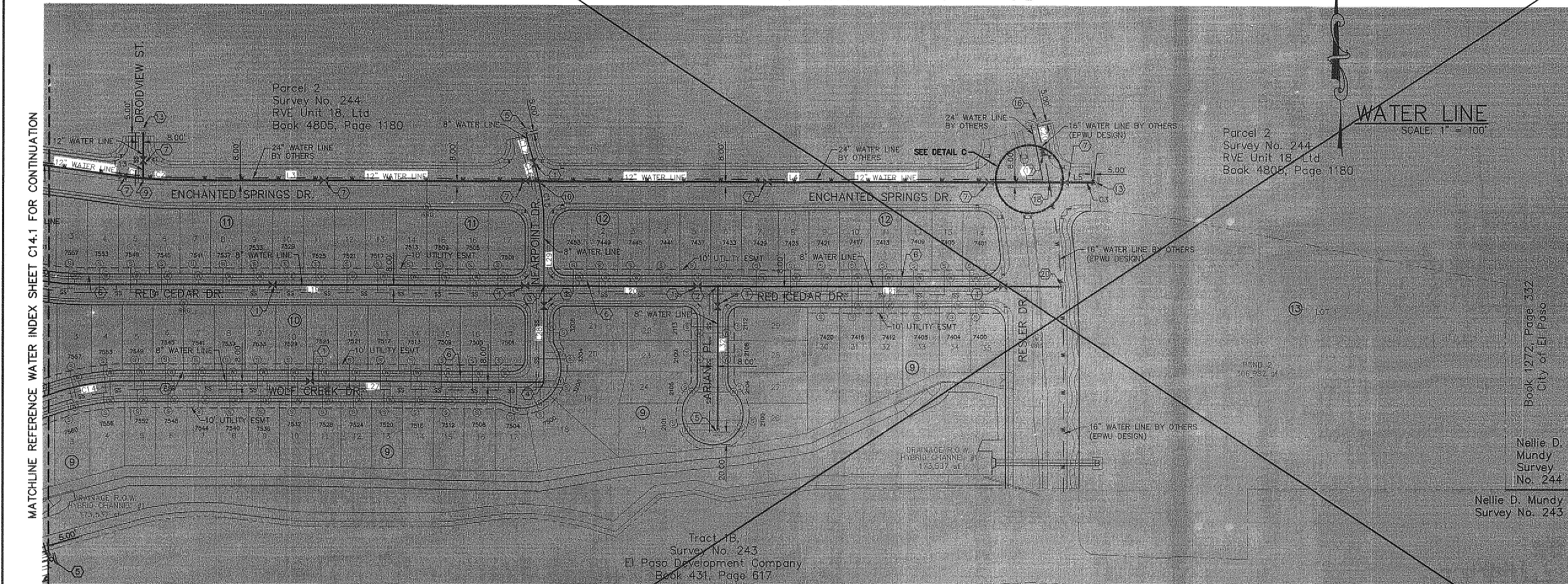
- ALL LOTS SHALL BE PROVIDED WITH ONE SERVICE CONNECTION TO BE INSTALLED AT THE LOCATION AS SHOWN ON THE SERVICE LOCATION DETAIL.
- ALL WATER LINES SHALL COMPLY WITH AWWA C-900 DR 14 PRESSURE CLASS 305, OR UNLESS OTHERWISE REQUIRED BY THE EPWU/PSB RULES AND REGULATIONS AND DESIGN STANDARDS. ALL WATER LINES SHALL BE PVC C-900, CLASS 150.
- CONTRACTOR SHALL COORDINATE WITH EPWU FOR TURNING & SHUTTING WATER VALVES PRIOR TO REMOVAL OF EXISTING CAPS & CONSTRUCTION OF NEW LINES.

REFERENCES - BENCHMARKS
 FOUND N.S.S. SURVEY MARKER STATIONED "NAD 83" ELEVATION: 3928.82 (CITY OF EL PASO CRITICAL DATUM SHOWING)
 3946.11 (NAD 83 DATUM)
 TIE TO THE PROJECT BENCHMARK IS NAD83/5272.0 FEET FROM A 1.2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY NO. 243

osca
 ENGINEERS • ARCHITECTS • PLANNERS
 Casimer Center @ Transmountain
 6000 W. LOOP WEST, SUITE 1000
 EL PASO, TEXAS 79906
 OFFICE: 915.544.3232 FAX: 915.544.6333 WWW.OSCA.ORG
 TEXAS FIRM REGISTRATION NO. 4584

LEGEND

| SYMBOL | DESCRIPTION |
|--------|--|
| --- | PROPERTY LINE |
| --- | SUBDIVISION BOUNDARY |
| --- | STREET R.O.W. LINE |
| --- | PROPOSED 8", 12", C-900 P.V.C. PIPE |
| --- | PROPOSED 8", 12", C-900 P.V.C. PIPE ON ANOTHER SHEET (PLAN VIEW) |
| --- | PROPOSED SANITARY SEWER |
| --- | PROPOSED STORM SEWER |
| --- | EXISTING SEWER LINE |
| --- | 16" WATER LINE BY OTHERS |
| --- | EXISTING WATER LINE |
| --- | EXISTING GAS LINE |
| --- | PROPOSED SERVICE CONNECTION REFER TO NOTE 14. |
| --- | PROPOSED FIRE HYDRANT, KENNEDY OR MUELLER MODEL |
| --- | PROPOSED WATER IRRIGATION CONNECTION |
| --- | EXISTING FIRE HYDRANT |
| --- | PROPOSED GATE VALVE |
| --- | EXISTING GATE VALVE |
| --- | PLUG |
| --- | POINT OF TANGENCY |
| --- | REDUCER |



WATER LINE
 SCALE: 1" = 100'

MATCHLINE REFERENCE WATER INDEX SHEET C14.1 FOR CONTINUATION

Book 1272, Page 332
 City of El Paso

Nellie D. Mundy Survey No. 244

Tract 10B Survey No. 243 El Paso Development Company Book 431, Page 617

NOTE:
 THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN 30' TGS EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.

GAS LINE:
 ONEOK WESTEX TRANSMISSION
 11394 JAMES WATT, STE. 302
 EL PASO, TX 79936
 (915) 637-8446
 MR. OSCAR PHILLIPS

| WATER KEYED NOTES | WATER KEYED NOTES | WATER KEYED NOTES |
|-----------------------|-----------------------|-----------------------|
| ① 8" Ø GATE VALVE | ⑪ 12" CROSS | ⑳ 24" X 24" X 12" TEE |
| ② 8" X 8" X 8" TEE | ⑫ 12" BEND | ㉑ 16" X 16" X 12" TEE |
| ③ 8" CROSS | ⑬ 12" PLUG | ㉒ 24" X 16" CROSS |
| ④ 8" BEND | ⑭ 8" X 8" X 12" TEE | ㉓ 16" X 16" X 16" TEE |
| ⑤ 8" PLUG | ⑮ 16" X 12" REDUCERS | ㉔ 24" X 24" X 16" TEE |
| ⑥ FIRE HYDRANT | ⑯ 16" PLUG | |
| ⑦ 12" Ø GATE VALVE | ⑰ 16" BUTTERFLY VALVE | |
| ⑧ 12" X 12" X 8" TEE | ⑱ 12" X 16" CROSS | |
| ⑨ 12" X 12" X 12" TEE | ⑲ 8" FLUSH VALVE | |
| ⑩ 8" X 12" CROSS | ㉚ 16" X 16" X 8" TEE | |

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. SEPARATION DISTANCES SHALL FOLLOW TCEQ STANDARDS 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, 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 THE CITY OF EL PASO - DEVELOPMENT SERVICES PRIOR TO CONSTRUCTION. ALL EXISTING UTILITY DEPTHS ARE UNKNOWN. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR ACQUIRING FIELD DEPTHS OF ALL UTILITIES WITHIN THE PROJECT AREA.
- 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 CITY OF EL PASO AND EL PASO WATER UTILITIES 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 PARKWAY. SYMBOL IS ONLY SHOWN FOR DEPICTION PURPOSES ONLY.

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

ENGINEER:
 CEA GROUP
 4712 WOODROW BEAN, STE. F.
 EL PASO, TX. 79924
 (915) 534-5232
 MR. JORGE L. AZCARATE, P.E.

FIBER OPTICS:
 U.S. SPRINT
 151 N. BOONE ST.
 EL PASO, TX. 79905
 (915) 534-7910
 MR. RICK DERAGISCH

FIBER OPTICS:
 MCI TELECOMMUNICATIONS CORP.
 4045 DONIPHAN PARK CIRCLE
 EL PASO, TX. 79922
 (915) 542-2770 EXT. 201
 MR. DANIEL HERNANDEZ

WATER & SEWER:
 EL PASO WATER UTILITIES
 1154 HAWKINS BLVD #1
 EL PASO, TX. 79925
 (915) 594-5500
 MR. FELIPE LOPEZ, P.E.

ELECTRIC:
 EL PASO ELECTRIC CO.
 501 W. SAN ANTONIO ST.
 EL PASO, TX. 79902
 (915) 543-2076
 MR. FRANK WIGEL (DISTRIBUTION)

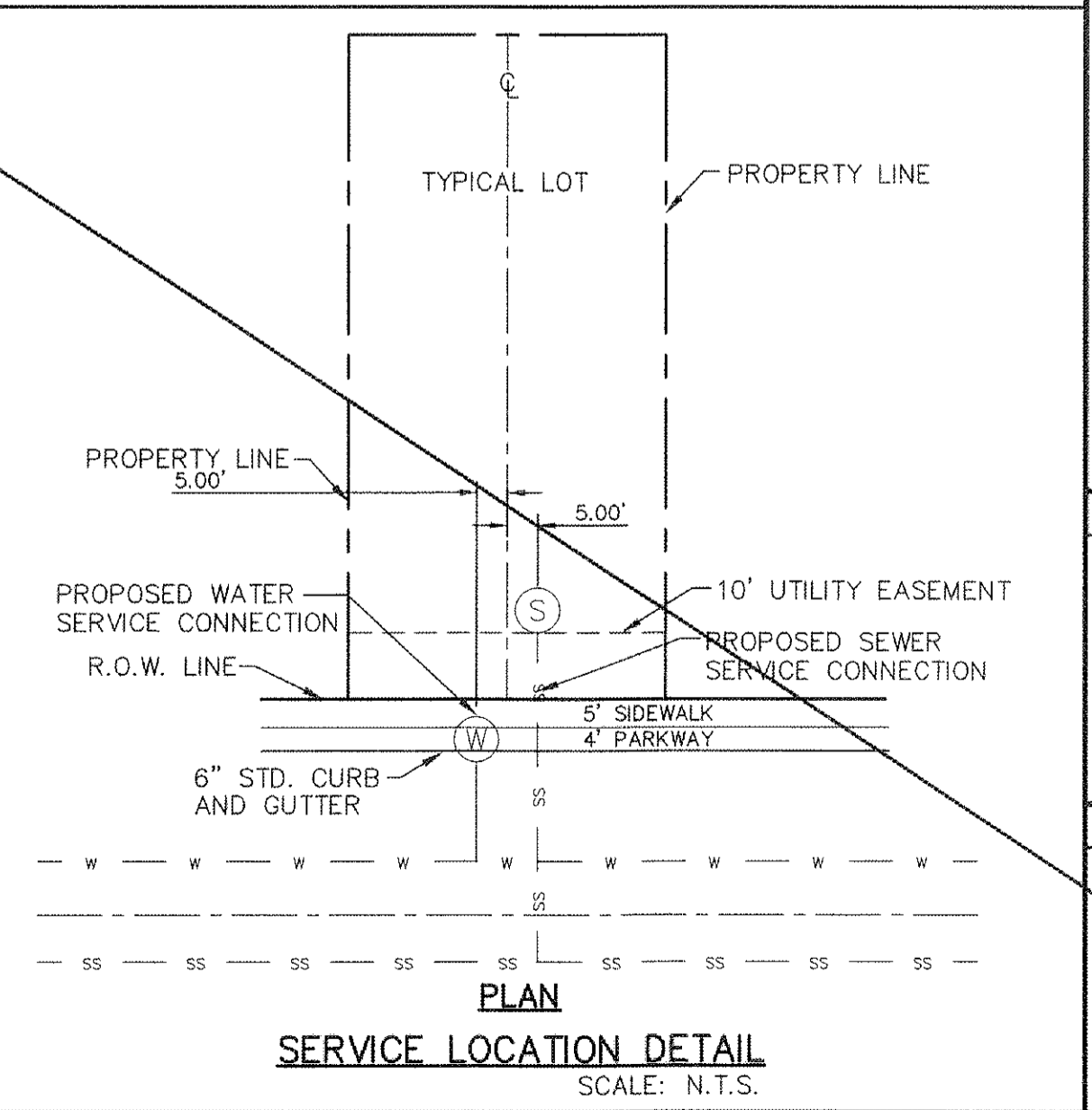
EL PASO STREETS
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION
 7969 SAN PAULO DR.
 EL PASO, TX. 79907
 (915) 621-6750
 MR. DARYL COLE

TELEPHONE:
 SBC
 P.O. BOX 1650
 EL PASO, TX. 79935
 (915) 695-5151
 MR. TIM BROWN

FIBER OPTICS:
 AT&T
 6700 POLLARD ST.
 EL PASO, TX. 79936
 (915) 680-7218
 MR. ALEX LIMON

RESIDENTIAL GAS LINES:
 TEXAS GAS SERVICE
 4700 POLLARD ST.
 EL PASO, TX. 79936
 (915) 680-7218
 MR. ALEX LIMON

WARNING ! BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES



PROJECT TITLE
DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

SHEET TITLE
WATER INDEX/GENERAL INFORMATION

(SHEET 2 OF 3)
 SHEET NO.
C14.2

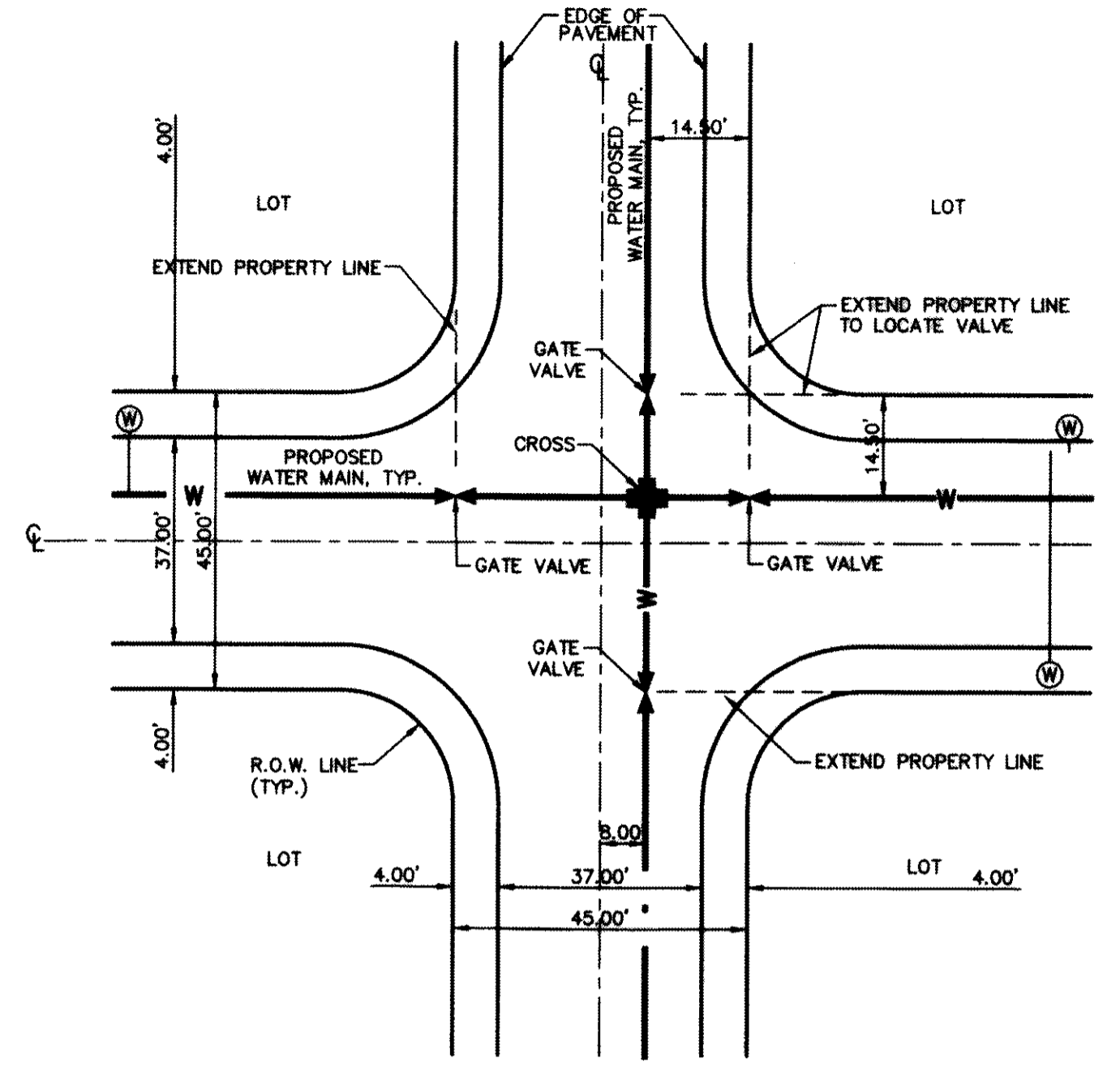
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 10/24/2013

THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPWU PHASE I.

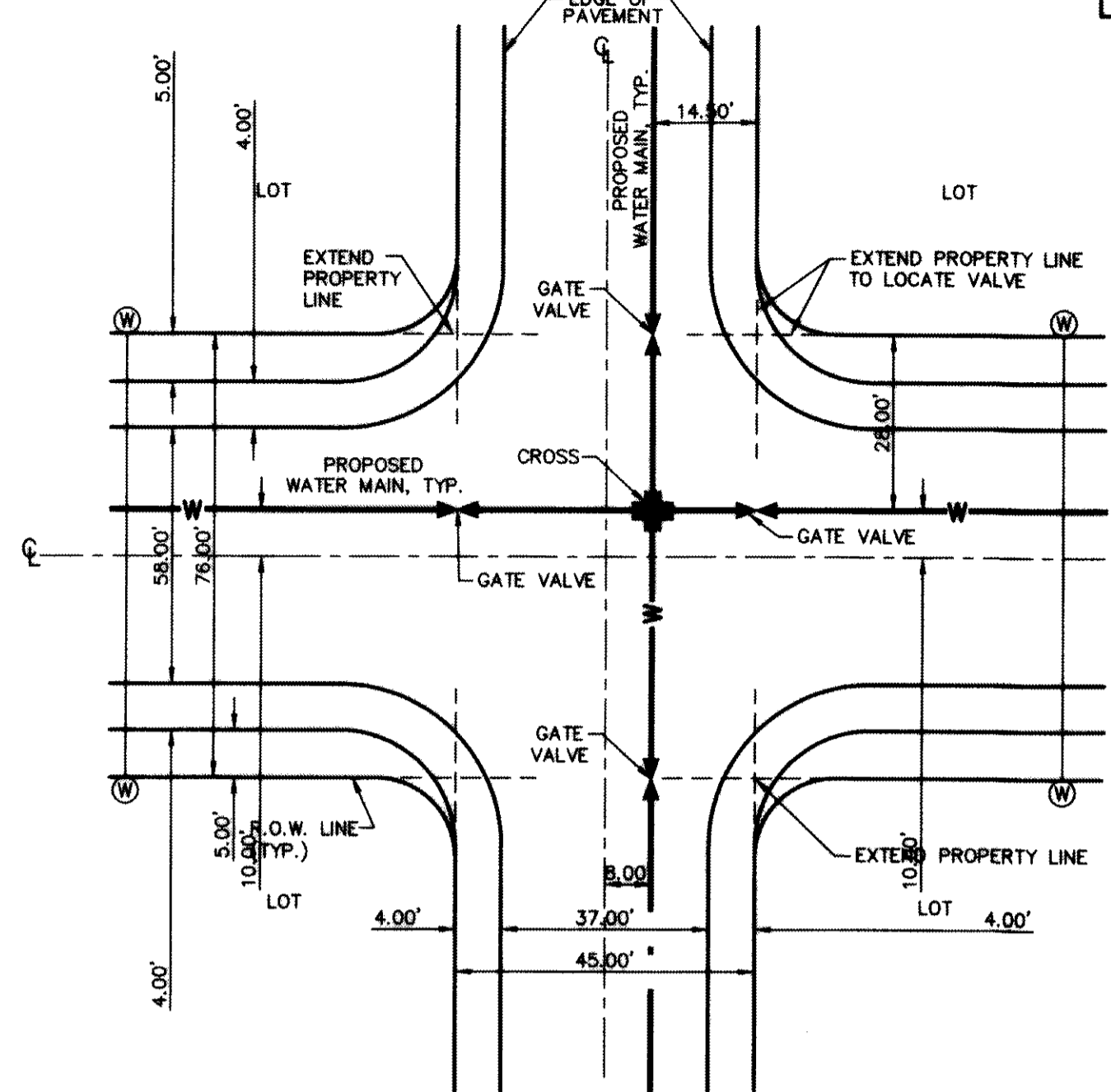
INDEX

- SHEET NO. DESCRIPTION
- C14.3 DESERT SPRINGS UNIT ONE WATER MAIN PIPE LAYOUT (SHEET 3 OF 3)
 - C16.1 WATER DETAILS
 - C16.2 WATER DETAILS
 - C16.3 WATER DETAILS
 - C16.4 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 COMPLY WITH AWWA C-900 DR 14 PRESSURE CLASS 305, OR UNLESS OTHERWISE REQUIRED BY THE EPWU/PSB RULES AND REGULATIONS AND DESIGN STANDARDS. ALL WATER LINES SHALL BE PVC C-900, CLASS 150.
 - CONTRACTOR SHALL COORDINATE WITH EPWU FOR TURNING & SHUTTING WATER VALVES PRIOR TO REMOVAL OF EXISTING CAPS & CONSTRUCTION OF NEW LINES.

REFERENCES - BENCHMARKS
 FERNANDEZ SURVEY MARKER STATIONED "CHINO 1987" (CITY OF EL PASO VERTICAL DATUM)
 ELEVATION: 3946.11 (NAVD 88 DATUM)
 3946.11 (NAVD 88 DATUM)
 TO THE PROJECT LOCATION (DRAINAGE CORNER OF TRACT 11, HELLE D. MUNDY SURVEY NO. 239)
 DATE: _____ BY: _____
 REVISIONS: _____



TYPICAL VALVE AND WATER LOCATION AT STREET INTERSECTIONS ON A 45' R.O.W.
 SCALE: N.T.S.



TYPICAL VALVE AND WATER LOCATION AT STREET INTERSECTIONS ON A 76' R.O.W.
 SCALE: N.T.S.

WATER KEYED NOTES

- 8" ϕ GATE VALVE
- 8" X 8" X 8" TEE
- 8" CROSS
- 8" BEND
- 8" PLUG
- FIRE HYDRANT
- 12" ϕ GATE VALVE
- 12" X 12" X 8" TEE
- 12" X 12" X 12" TEE
- 8" X 12" CROSS
- 12" CROSS
- 12" BEND
- 12" PLUG
- 8" X 8" X 12" TEE
- 16" X 12" REDUCERS
- 16" PLUG
- 16" BUTTERFLY VALVE
- 12" X 16" CROSS
- 8" FLUSH VALVE
- 16" X 16" X 8" TEE
- 24" X 24" X 12" TEE
- 16" X 16" X 12" TEE
- 24" X 16" CROSS
- 16" X 16" X 16" TEE
- 24" X 24" X 16" TEE

TYPICAL VALVE AND WATER LOCATION AT STREET INTERSECTIONS ON A 45' R.O.W.
 SCALE: N.T.S.

LINE TABLE

| LINE | LENGTH | BEARING |
|------|---------|-------------|
| L1 | - | - |
| L2 | 242.30' | S82°15'13"E |
| L3 | 585.67' | S90°00'00"E |
| L4 | 830.48' | S80°00'00"E |
| L5 | 51.07' | S90°00'00"E |
| L6 | 174.08' | S00°00'00"W |
| L7 | 253.42' | S00°00'00"W |
| L8 | 258.10' | S00°00'00"W |
| L9 | 197.64' | S00°00'00"W |
| L10 | 260.00' | S00°00'00"W |
| L11 | 142.47' | S00°00'00"W |
| L12 | 704.65' | S00°00'00"E |
| L13 | 73.22' | S00°00'00"W |
| L14 | 98.50' | S00°00'00"W |
| L15 | 71.60' | S80°00'00"E |
| L16 | 48.46' | S89°59'59"E |
| L17 | 260.00' | S89°59'59"E |
| L18 | 97.72' | S89°59'59"E |
| L19 | 752.03' | S90°00'00"E |
| L20 | 283.00' | S90°00'00"E |
| L21 | 559.56' | S00°00'00"E |
| L22 | 311.38' | S00°00'00"W |
| L23 | 79.76' | S70°00'00"E |
| L24 | 131.09' | N70°38'24"E |
| L25 | 164.29' | N70°38'24"E |
| L26 | 132.34' | N70°38'24"E |
| L27 | 676.20' | S90°00'00"E |
| L28 | 158.00' | N00°00'00"E |
| L29 | 85.48' | N00°00'00"E |
| L30 | 382.74' | N00°00'00"E |
| L31 | 312.19' | N00°00'00"E |
| L32 | 235.01' | N00°00'00"E |
| L33 | - | - |
| L34 | 15.32' | S90°00'00"E |
| L35 | 119.80' | S71°49'16"E |
| L36 | 3.65' | N81°09'17"E |
| L37 | 111.54' | N81°09'17"E |
| L38 | 90.89' | N80°00'00"E |
| L39 | 162.00' | N90°00'00"E |
| L40 | 238.29' | S00°00'00"W |
| L41 | 260.00' | N00°00'00"E |
| L42 | 182.00' | N00°00'00"E |
| L43 | 260.00' | N00°00'00"E |
| L44 | 104.12' | N74°14'14"E |

CURVE TABLE

| CURVE | LENGTH | RADIUS | TANGENT | CHORD | BEARING | DELTA |
|-------|---------|-----------|---------|---------|-------------|-----------|
| C1 | 35.13' | 692.00' | 17.57' | 35.13' | S83°42'29"E | 2°54'32" |
| C2 | 58.43' | 692.00' | 29.23' | 58.41' | S87°34'52"E | 4°50'15" |
| C3 | 22.59' | 1008.00' | 11.29' | 22.59' | N89°21'29"W | 1°17'02" |
| C4 | 257.77' | 508.00' | 131.72' | 255.01' | N14°32'12"E | 29°04'23" |
| C5 | 249.65' | 492.00' | 127.98' | 246.98' | S14°32'12"W | 29°04'23" |
| C6 | 254.21' | 22852.00' | 127.10' | 254.20' | S84°26'14"E | 0°38'14" |
| C7 | 73.87' | 367.00' | 37.06' | 73.75' | N84°14'01"E | 1°13'15" |
| C8 | 77.09' | 383.00' | 38.68' | 76.96' | S84°14'02"W | 1°13'15" |
| C9 | 57.90' | 383.00' | 28.80' | 57.44' | N85°41'56"W | 8°36'05" |
| C10 | 63.63' | 383.00' | 31.89' | 63.56' | N76°38'19"W | 9°31'10" |
| C11 | 116.07' | 367.00' | 58.53' | 115.59' | S80°56'22"E | 18°07'17" |
| C12 | 198.53' | 492.00' | 100.64' | 197.19' | S81°53'36"E | 23°07'13" |
| C13 | 139.45' | 492.00' | 70.20' | 138.99' | N78°45'36"E | 18°14'23" |
| C14 | 128.41' | 383.00' | 65.33' | 128.80' | S80°19'21"W | 19°21'36" |
| C15 | 83.17' | 383.00' | 41.75' | 83.01' | N06°13'17"W | 12°28'34" |
| C16 | 39.30' | 383.00' | 19.67' | 39.28' | N15°22'55"W | 5°52'43" |
| C17 | 47.14' | 367.00' | 23.60' | 47.11' | S14°38'30"E | 7°21'34" |
| C18 | - | - | - | - | - | - |
| C19 | - | - | - | - | - | - |
| C20 | - | - | - | - | - | - |
| C21 | 121.52' | 383.00' | 61.27' | 121.01' | N80°54'36"W | 18°10'44" |
| C22 | 173.10' | 367.00' | 88.19' | 171.50' | S85°19'59"E | 27°01'27" |
| C23 | 59.13' | 383.00' | 29.62' | 59.07' | S85°34'38"W | 8°50'43" |
| C24 | 27.38' | 367.00' | 13.70' | 27.38' | N76°22'29"E | 4°16'29" |
| C25 | 570.98' | 22852.00' | 285.51' | 570.97' | S83°23'10"E | 1°25'54" |

NOTE:
 THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN 30' TGS EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT, NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.

GAS LINE:
 ONEOK WESTEX TRANSMISSION
 11394 JAMES WATT, STE. 302
 EL PASO, TX 79936
 (915) 637-8446
 MR. OSCAR PHILLIPS

TELEPHONE:
 SBC
 11200 PELICANO
 EL PASO, TX 79935
 (915) 595-5151
 MR. TIM BROWN

FIBER OPTICS:
 AT&T
 P.O. BOX 1850
 EL PASO, TX 79949
 (800) 852-3786
 MS. DARLENE NORIS

RESIDENTIAL GAS LINES:
 TEXAS GAS SERVICE
 4700 POLLARD ST.
 EL PASO, TX 79930
 (915) 680-7218
 MR. ALEX LIMON

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

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. SEPARATION DISTANCES SHALL FOLLOW TCEQ STANDARDS 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, SAGS 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.
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- 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 PARKWAY. SYMBOL IS ONLY SHOWN FOR DEPICTION PURPOSES ONLY.

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

WATER & SEWER:
 EL PASO WATER UTILITIES
 1154 HAWKINS BLVD #1
 EL PASO, TX 79925
 (915) 594-5500
 MR. FELIPE LOPEZ, P.E.

ENGINEER:
 CEA GROUP
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 EL PASO, TX 79924
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 MR. JORGE L. AZCARATE, P.E.

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 MR. RICK DERAGISCH

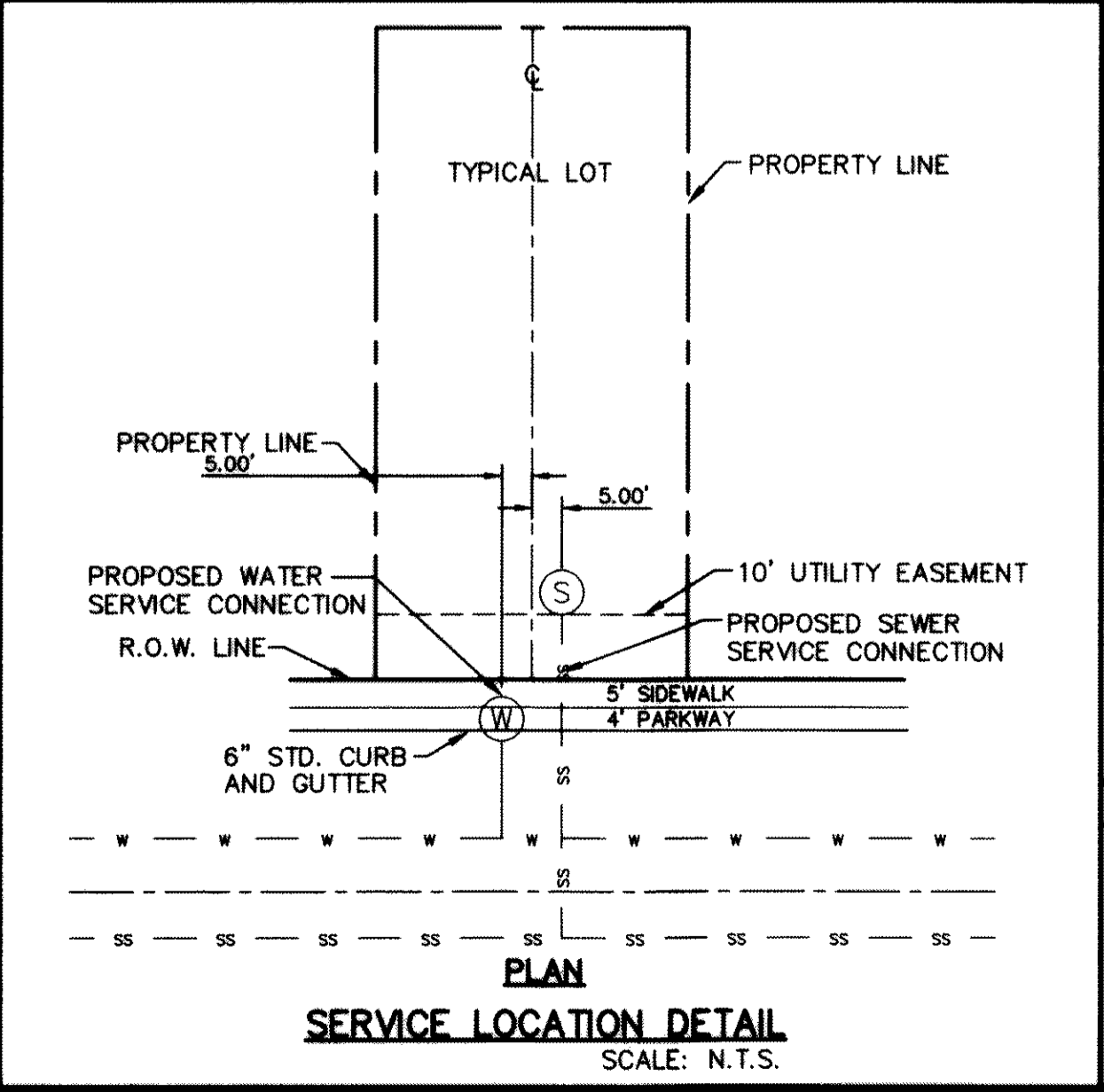
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 EL PASO, TX 79922
 (915) 542-2770 EXT. 201
 MR. DANIEL HERNANDEZ

ELECTRIC:
 EL PASO ELECTRIC CO.
 501 W. SAN ANTONIO ST.
 EL PASO, TX 79902
 (915) 543-2076
 MR. FRANK VIGEL (DISTRIBUTION)

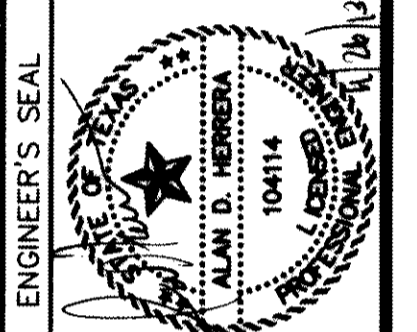
EL PASO STREETS:
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION
 7969 SAN PABLO DR.
 EL PASO, TX 79907
 (915) 621-6750
 MR. DARYL COLE

CABLE TELEVISION:
 TIME WARNER COMMUNICATIONS
 7010 AIRPORT ROAD
 EL PASO, TX 79906
 (915) 772-1123
 MR. JOHN MARES

| WATER KEYED NOTES | WATER KEYED NOTES | WATER KEYED NOTES |
|-------------------------|-----------------------|-----------------------|
| ① 8" ϕ GATE VALVE | ⑪ 12" CROSS | ⑳ 24" X 24" X 12" TEE |
| ② 8" X 8" X 8" TEE | ⑫ 12" BEND | ㉑ 16" X 16" X 12" TEE |
| ③ 8" CROSS | ⑬ 12" PLUG | ㉒ 24" X 16" CROSS |
| ④ 8" BEND | ⑭ 8" X 8" X 12" TEE | ㉓ 16" X 16" X 16" TEE |
| ⑤ 8" PLUG | ⑮ 16" X 12" REDUCERS | ㉔ 24" X 24" X 16" TEE |
| ⑥ FIRE HYDRANT | ⑯ 16" PLUG | |
| ⑦ 12" ϕ GATE VALVE | ⑰ 16" BUTTERFLY VALVE | |
| ⑧ 12" X 12" X 8" TEE | ⑱ 12" X 16" CROSS | |
| ⑨ 12" X 12" X 12" TEE | ⑲ 8" FLUSH VALVE | |
| ⑩ 8" X 12" CROSS | ㉀ 16" X 16" X 8" TEE | |



CEA GROUP
 ENGINEERS • ARCHITECTS • PLANNERS
 Center @ Transmountain
 4712 Woodrow Bean, Ste. F, El Paso, TX 79924
 CEA TEXAS FIRM REGISTRATION NO. 684



SCALE:
 Horizontal: 1"=100'
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APP'D. BY: A.H.
 JOB NO. 2050-013-ID

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 WATER INDEX/GENERAL INFORMATION
 (SHEET 3 OF 3)
 SHEET NO.

C14.3

| 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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING I BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

RECORD DRAWINGS

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10/24/2013

THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED PHASE II. REFERENCE SUBDIVISION PHASE II.

LEGEND

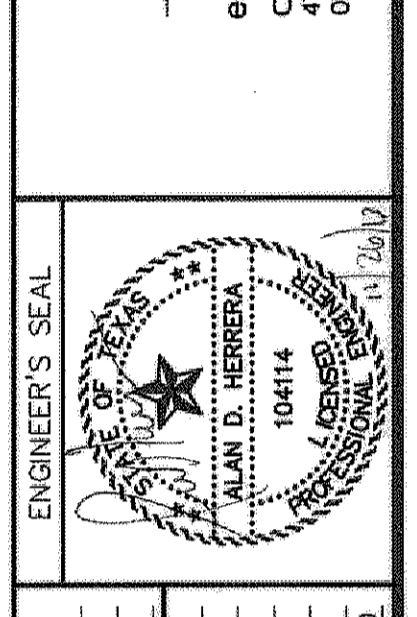
| SYMBOL | DESCRIPTION |
|---------------|---|
| — | STREET R.O.W. LINE |
| --- | PROPERTY LINE |
| - - - - - | SUBDIVISION BOUNDARY |
| - w - w - w - | 16" WATER LINE BY OTHERS |
| - w - w - w - | EXISTING WATER LINE |
| - w - w - w - | WATER LINE |
| - w - w - w - | PROPOSED 8" / 12", C-900 P.V.C. PIPE |
| - w - w - w - | PROPOSED 8" / 12", C-900 P.V.C. PIPE (SEE OTHER LINE) |
| - w - w - w - | 24" WATER LINE |
| - w - w - w - | 24" WATER TRANSMISSION LINE (BY OTHERS) |
| - - - - - | PROPOSED SANITARY SEWER |
| - - - - - | PROPOSED STORM SEWER |
| ○ | PROPOSED SEWER SERVICE CONNECTION |
| ○ | PROPOSED WATER SERVICE CONNECTION |
| ○ | PROPOSED FIRE HYDRANT, KENNEDY OR MUELLER MODEL |
| ○ | EXISTING GATE VALVE |
| ○ | PROPOSED GATE VALVE |
| ○ | TEE |
| ○ | CROSS |
| ○ | BEND(S) |
| ○ | 16" X 12" REDUCER |
| ○ | PLUG |
| ○ | POINT OF TANGENCY |
| ○ | *1 24" STEEL CASING TO BE CENTERED ON SEWER CROSSING. |
| ○ | *2 DUCTILE IRON PIPE. SEE DETAILS ON SHEET C16.3 |

| REFERENCES - BENCHMARKS | DATE | REVISIONS |
|---|------|-----------|
| FOUND N.G.S. SURVEY MARKER STAMPED "AND 1980" ELEVATION: 3946.11 (NAVD 88 DATUM) | | |
| TO THE PROX. 1/2" INCH BEARING FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY NO. 239 | | |

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4719 Woodrow Bean, Ste. F El Paso, TX 79924
Office: 915.544.2222 Fax: 915.544.2228 www.ceand.com



| SCALE | DATE | DESIGN BY | DRAWN BY | CHKD. BY | APP. NO. | JOB NO. |
|-----------------------|-----------|-----------|----------|----------|----------|-------------|
| Horizontal: 1"=40' | JUNE 2012 | A.H. | J.M. | J.U.L.A. | | 2050-013-1B |
| Vertical: 1"=5' | | | | | | |
| Contour Interval: N/A | | | | | | |

PROJECT TITLE

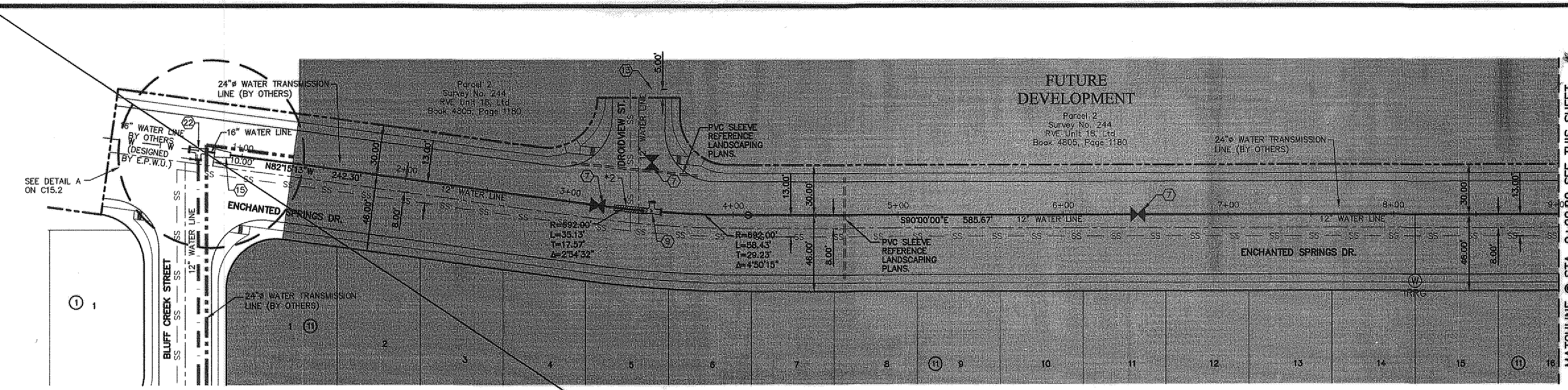
DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

SHEET TITLE

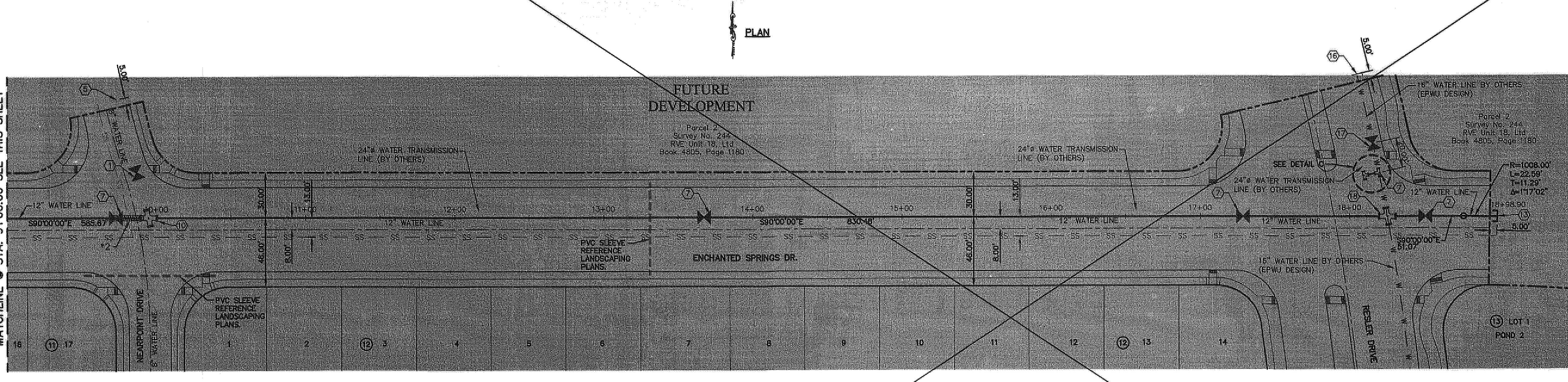
WATER PLAN VIEW ENCHANTED SPRINGS DRIVE & RESLER DRIVE

(SHEET 1 OF 7)
SHEET NO.

C15.1



PLAN



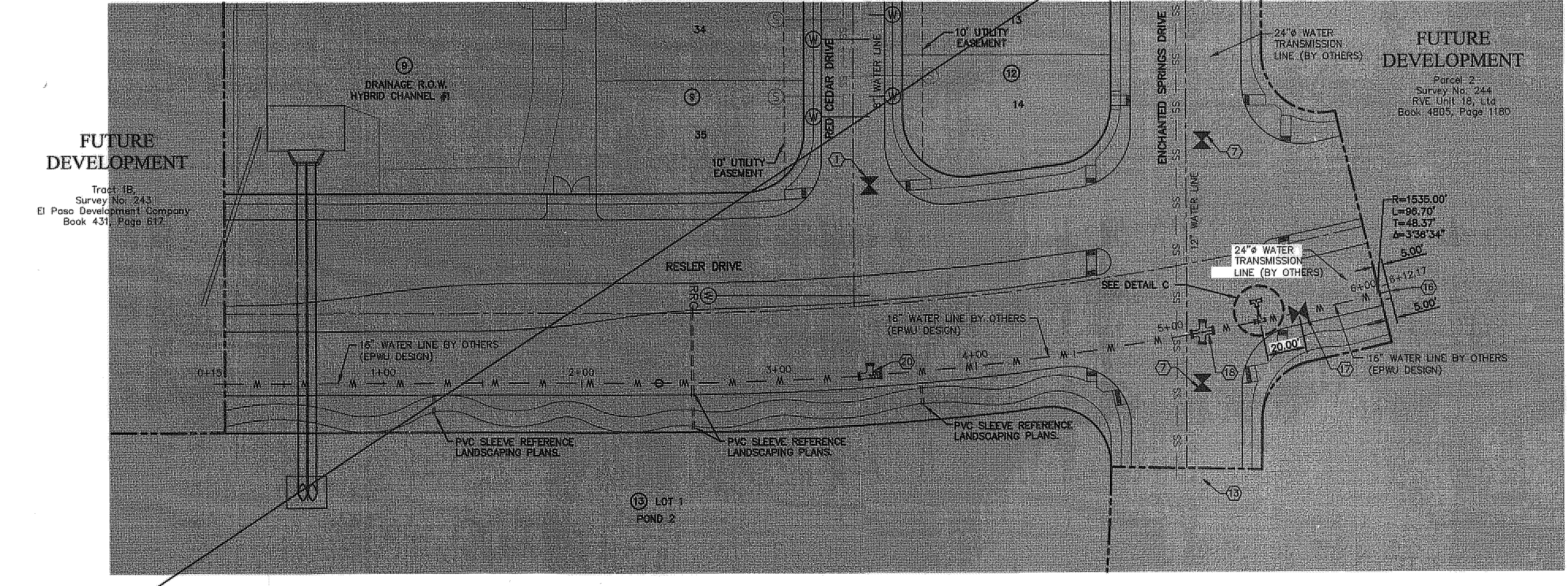
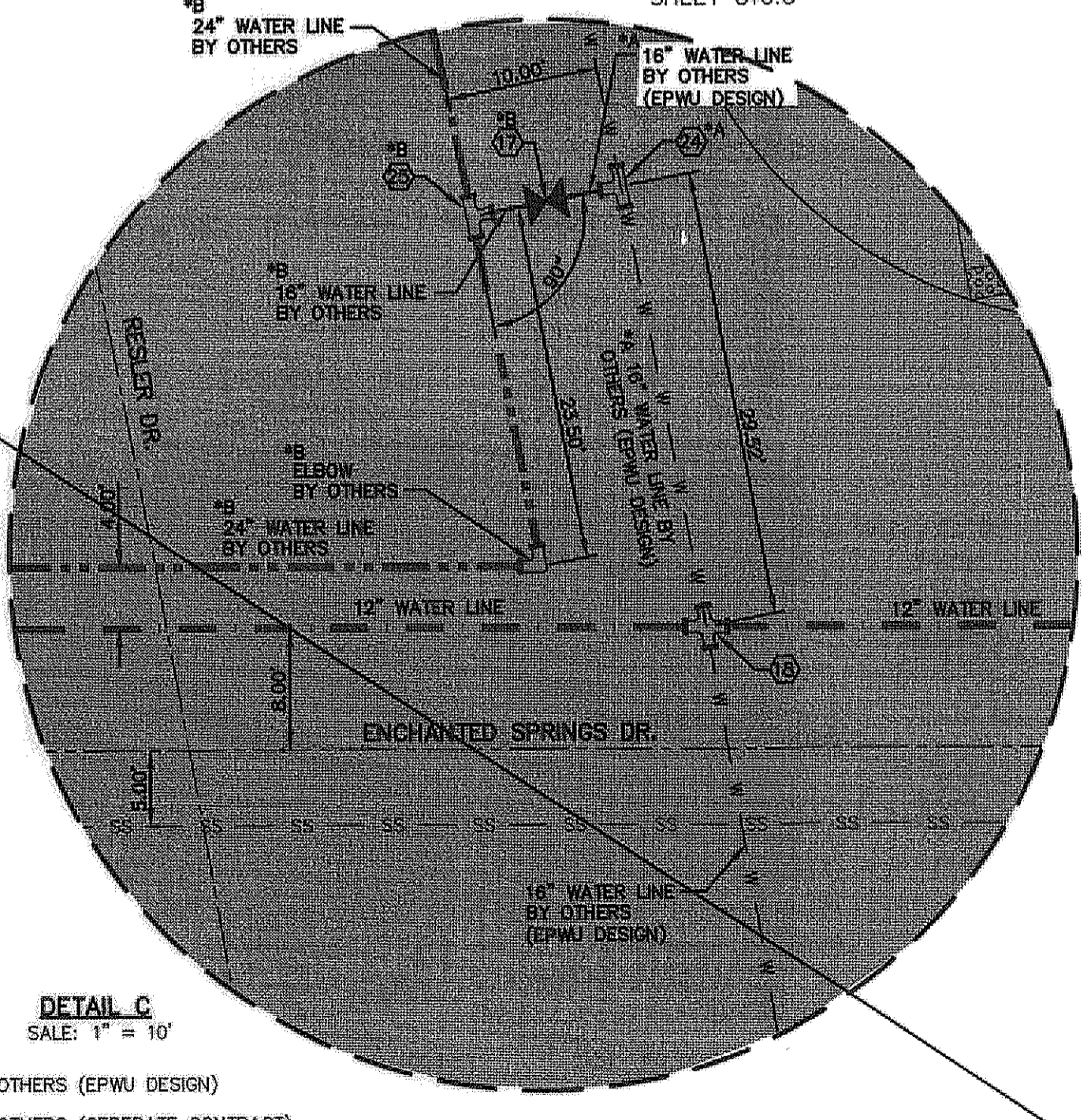
PLAN

WATER KEYED NOTES

- 8" Ø GATE VALVE
- 8" X 8" X 8" TEE
- 8" CROSS
- 8" BEND
- 8" PLUG
- FIRE HYDRANT
- 12" Ø GATE VALVE
- 12" X 12" X 8" TEE
- 12" X 12" X 12" TEE
- 8" X 12" CROSS
- 12" CROSS
- 12" BEND
- 12" PLUG
- 8" X 8" X 12" TEE
- 16" X 12" REDUCERS
- 16" PLUG
- 16" BUTTERFLY VALVE
- 12" X 16" CROSS
- 8" FLUSH VALVE
- 16" X 16" X 8" TEE
- 24" X 24" X 12" TEE
- 16" X 16" X 12" TEE
- 24" X 16" CROSS
- 16" X 16" X 16" TEE
- 24" X 16" CROSS
- 16" X 16" X 16" TEE
- 24" X 24" X 16" TEE

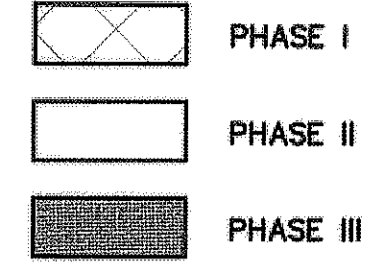
DETAIL C
SCALE: 1" = 10'

*A BY OTHERS (EPWU DESIGN)
*B BY OTHERS (SEPARATE CONTRACT)
*C 12" CAP BY OTHERS TO BE REMOVED AS PER CONSTRUCTION OF DSU-1 12" WATER LINE



PLAN

PHASE II PLUG:
AT THE FOLLOWING FUTURE INTERSECTIONS (SEE BELOW), THE TEMPORARY PLUG FOR PHASE II SHALL BE INSTALLED THIRTY (30') FEET FROM WATER CROSS (OR TEE) BY DEVELOPER.



| 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 |
| CREEK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

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1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

RECORD DRAWINGS
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10/24/2013

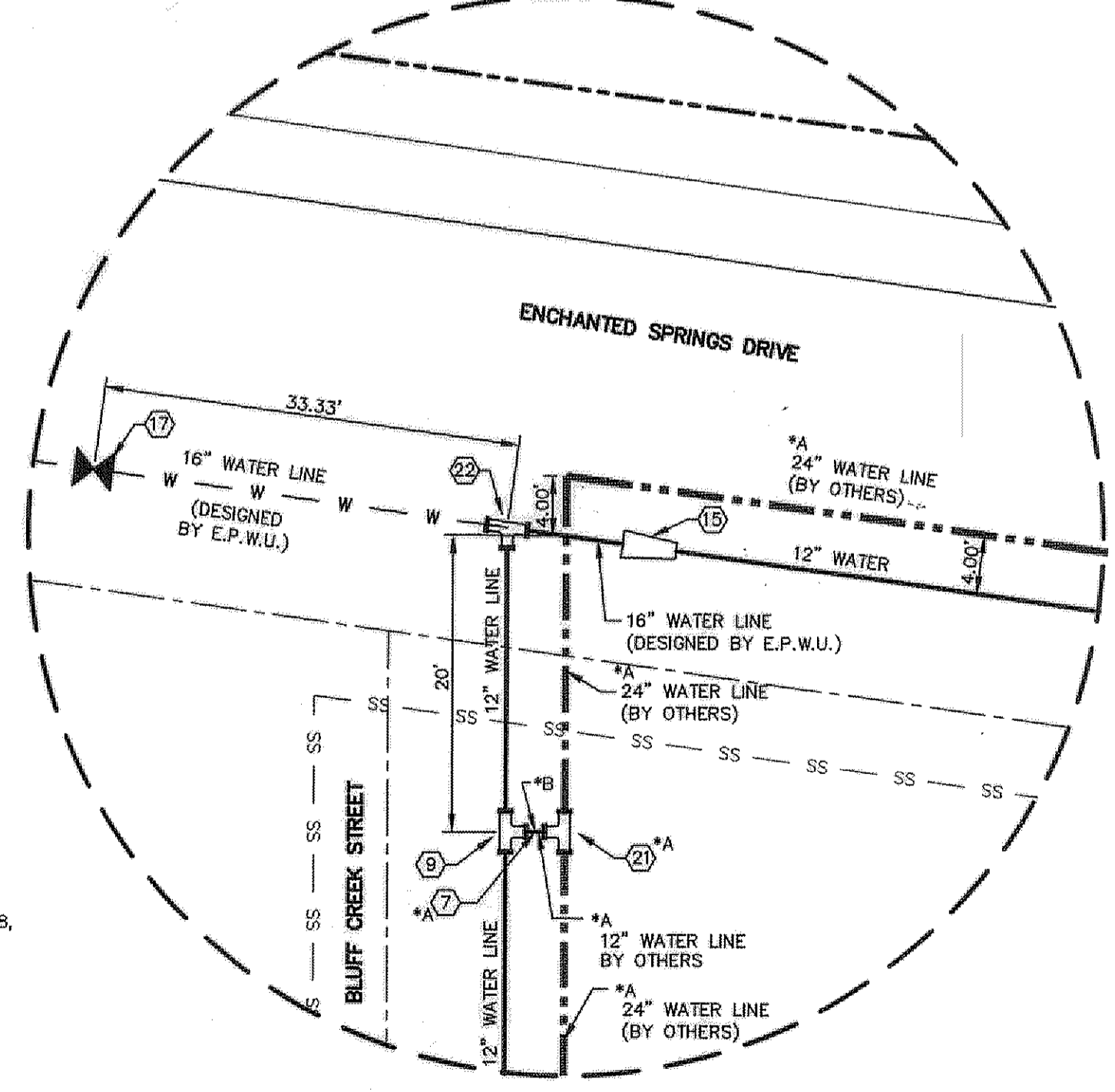
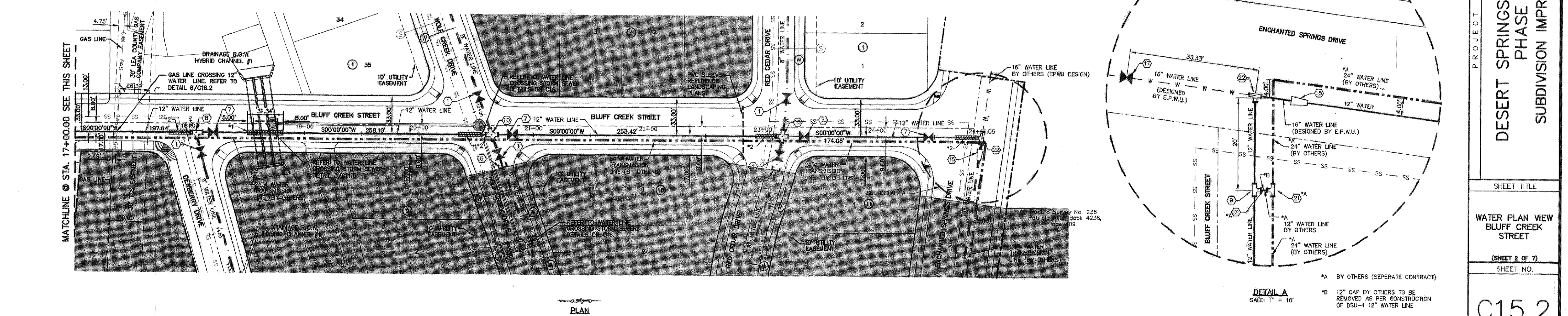
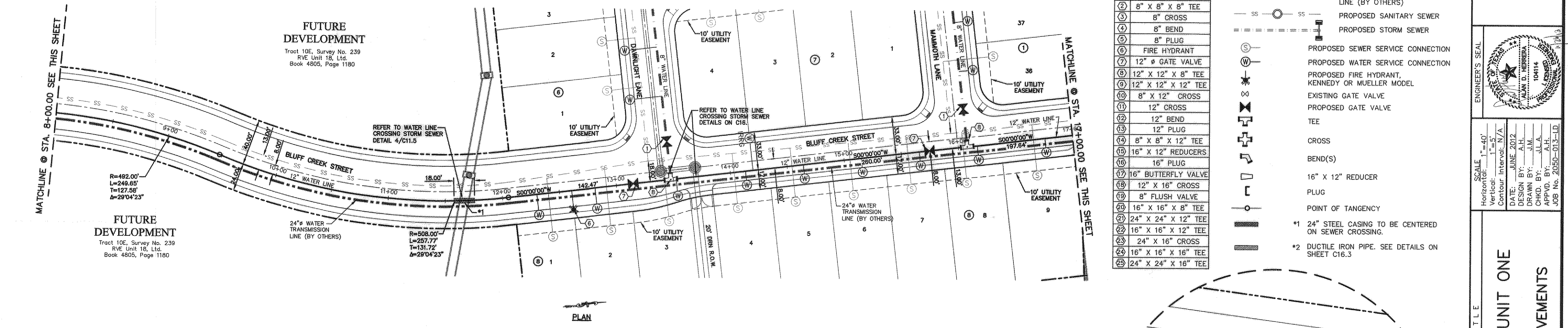
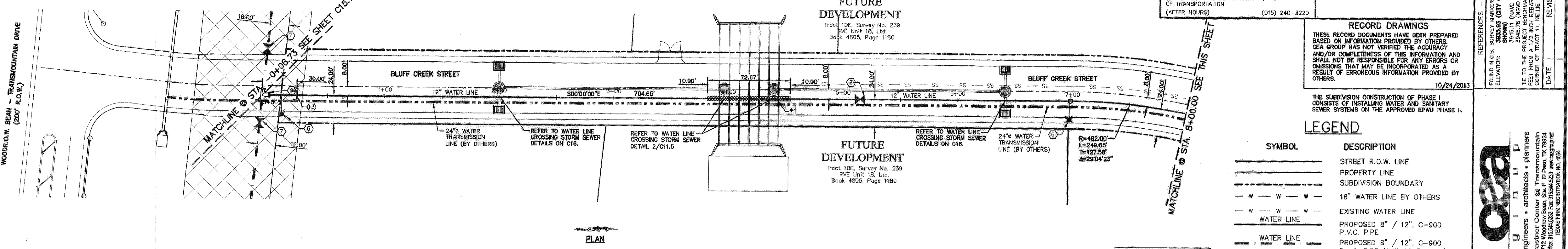
THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPWU PHASE II.

LEGEND

| SYMBOL | DESCRIPTION |
|---------|---|
| --- | STREET R.O.W. LINE |
| --- | PROPERTY LINE |
| --- | SUBDIVISION BOUNDARY |
| W W W W | 16" WATER LINE BY OTHERS |
| W W W W | EXISTING WATER LINE |
| W W W W | PROPOSED 8" / 12", C-900 P.V.C. PIPE |
| W W W W | PROPOSED 8" / 12", C-900 P.V.C. PIPE (SEE OTHER LINE) |
| W W W W | 24" WATER LINE |
| W W W W | 24" WATER TRANSMISSION LINE (BY OTHERS) |
| SS | PROPOSED SANITARY SEWER |
| SS | PROPOSED STORM SEWER |
| S | PROPOSED SEWER SERVICE CONNECTION |
| W | PROPOSED WATER SERVICE CONNECTION |
| F | PROPOSED FIRE HYDRANT, KENNEDY OR MUELLER MODEL |
| G | EXISTING GATE VALVE |
| G | PROPOSED GATE VALVE |
| T | TEE |
| C | CROSS |
| B | BEND(S) |
| P | PLUG |
| R | POINT OF TANGENCY |
| R1 | *1 24" STEEL CASING TO BE CENTERED ON SEWER CROSSING. |
| R2 | *2 DUCTILE IRON PIPE. SEE DETAILS ON SHEET C16.3 |

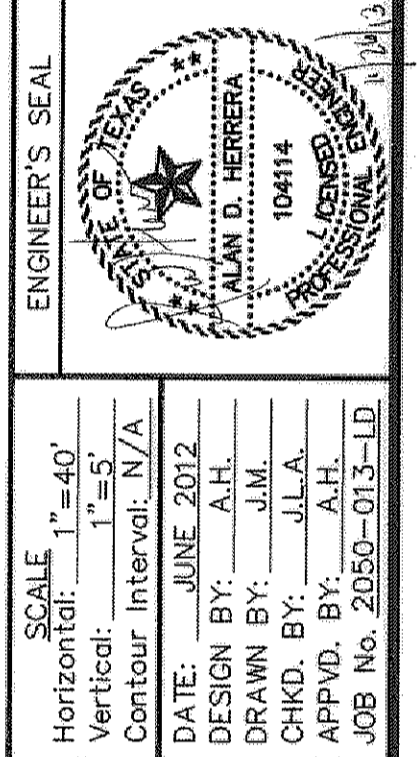
WATER KEYED NOTES

- 8" Ø GATE VALVE
- 8" X 8" X 8" TEE
- 8" CROSS
- 8" BEND
- 8" PLUG
- FIRE HYDRANT
- 12" Ø GATE VALVE
- 12" X 12" X 8" TEE
- 12" X 12" X 12" TEE
- 8" X 12" CROSS
- 12" CROSS
- 12" BEND
- 12" PLUG
- 8" X 8" X 12" TEE
- 16" X 12" REDUCERS
- 16" PLUG
- 16" BUTTERFLY VALVE
- 12" X 16" CROSS
- 8" FLUSH VALVE
- 16" X 16" X 8" TEE
- 24" X 24" X 12" TEE
- 16" X 16" X 12" TEE
- 24" X 16" CROSS
- 16" X 16" X 16" TEE
- 24" X 24" X 16" TEE



REFERENCES - BENCHMARKS
FOUND N.G.S. SURVEY MARKER STAMPED "CHNG 1980"
ELEVATION: 3925.03 (CITY OF EL PASO VERTICAL DATUM)
3945.11 (NAVD 88 DATUM)
3945.78 (NGVD 29 DATUM)
TIE TO THE PROJECT BENCHMARK IS NOD555052'E, 3.0220.83
SOUTH OF CORNER OF TRACT 11, BELLE D. MANN SURVEY, P.O. 235
DATE: REVISIONS: BY

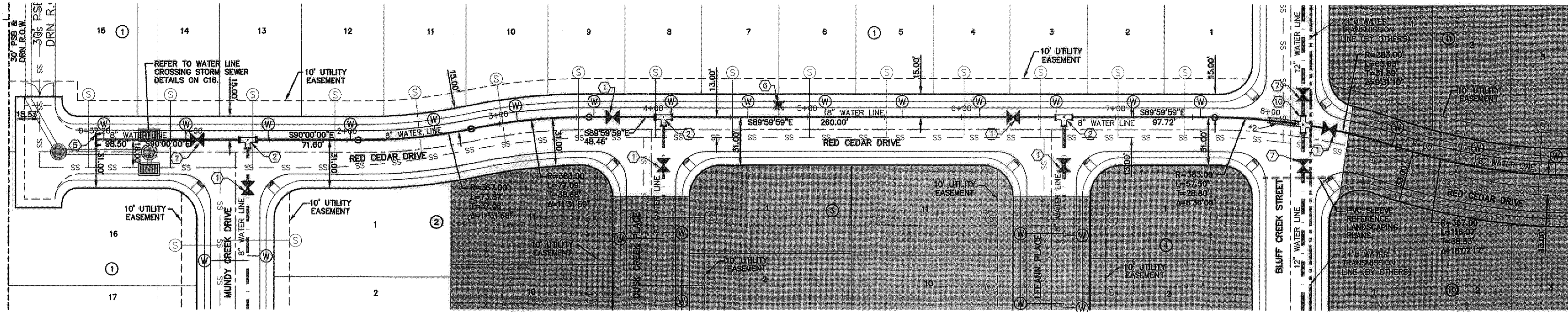
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Office: 915.544.6222 Fax: 915.544.6228 www.csa-group.net
TEXAS PROFESSIONAL REGISTRATION NO. 4868



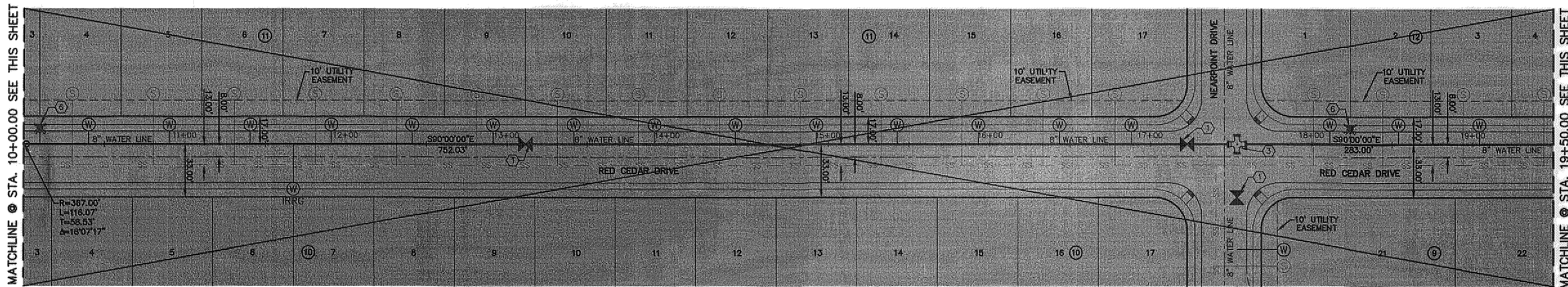
DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SHEET TITLE
WATER PLAN VIEW
BLUFF CREEK STREET
(SHEET 2 OF 7)
SHEET NO.
C15.2

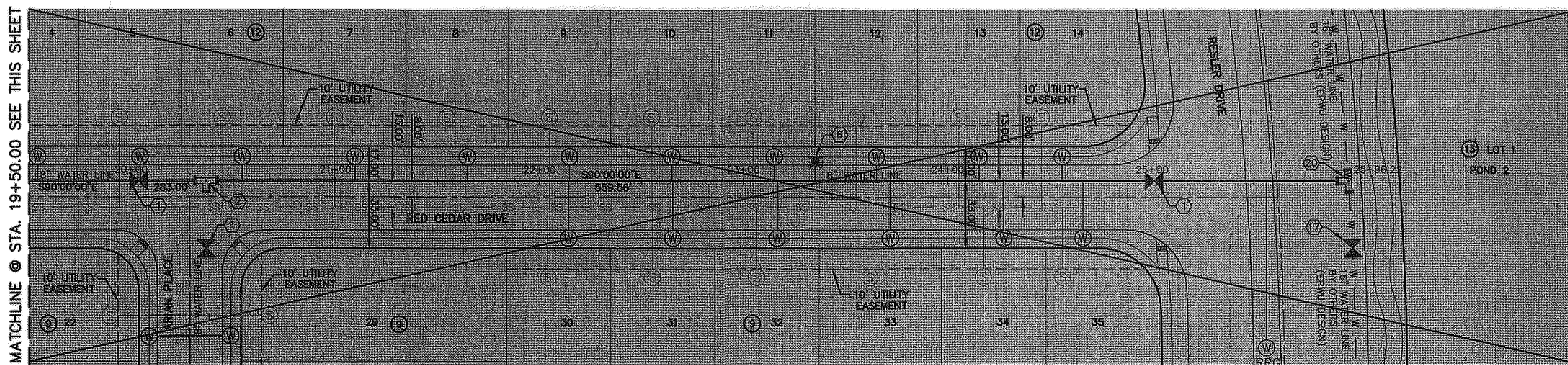
Tract 1651, Survey No. 239
 Surveyed by: J. D. ...
 Company, Ltd. Book 2879, Page 510



PLAN



PLAN



PLAN

| 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) 880-7200 |
| ONEOK PARTNERS | (915) 595-8918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

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RECORD DRAWINGS
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 10/24/2013
 THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPUW SHEET II.
 REFERENCE SUBDIVISION PHASE II

MATCHLINE @ STA. 10+00.00 SEE THIS SHEET

LEGEND

| SYMBOL | DESCRIPTION |
|--------|---|
| | STREET R.O.W. LINE |
| | PROPERTY LINE |
| | SUBDIVISION BOUNDARY |
| | 16" WATER LINE BY OTHERS |
| | EXISTING WATER LINE |
| | PROPOSED 8" / 12", C-900 P.V.C. PIPE |
| | PROPOSED 8" / 12", C-900 P.V.C. PIPE (SEE OTHER LINE) |
| | 24" WATER TRANSMISSION LINE (BY OTHERS) |
| | PROPOSED SANITARY SEWER |
| | PROPOSED STORM SEWER |
| | PROPOSED SEWER SERVICE CONNECTION |
| | PROPOSED WATER SERVICE CONNECTION |
| | PROPOSED FIRE HYDRANT, KENNEDY OR MUELLER MODEL |
| | EXISTING GATE VALVE |
| | PROPOSED GATE VALVE |
| | TEE |
| | CROSS |
| | BEND(S) |
| | 16" X 12" REDUCER |
| | PLUG |
| | POINT OF TANGENCY |
| | *1 24" STEEL CASING TO BE CENTERED ON SEWER CROSSING. |
| | *2 DUCTILE IRON PIPE. SEE DETAILS ON SHEET C16.3 |

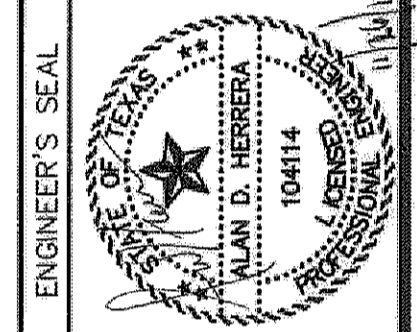
WATER KEYED NOTES

| | |
|----|---------------------|
| 1 | 8" Ø GATE VALVE |
| 2 | 8" X 8" X 8" TEE |
| 3 | 8" CROSS |
| 4 | 8" BEND |
| 5 | 8" PLUG |
| 6 | FIRE HYDRANT |
| 7 | 12" Ø GATE VALVE |
| 8 | 12" X 12" X 8" TEE |
| 9 | 12" X 12" X 12" TEE |
| 10 | 8" X 12" CROSS |
| 11 | 12" CROSS |
| 12 | 12" BEND |
| 13 | 12" PLUG |
| 14 | 8" X 8" X 12" TEE |
| 15 | 16" X 12" REDUCERS |
| 16 | 16" PLUG |
| 17 | 16" BUTTERFLY VALVE |
| 18 | 12" X 16" CROSS |
| 19 | 8" FLUSH VALVE |
| 20 | 16" X 16" X 8" TEE |
| 21 | 24" X 24" X 12" TEE |
| 22 | 16" X 16" X 12" TEE |
| 23 | 24" X 16" CROSS |
| 24 | 16" X 16" X 16" TEE |
| 25 | 24" X 24" X 16" TEE |

REFERENCES - BENCHMARKS

| | |
|---|---|
| FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980" | |
| 3855.69 (CITY OF EL PASO VERTICAL DATUM) | |
| ELEVATION: | 3945.11 (NAD 88 DATUM) |
| | 3945.78 (NGVD 29 DATUM) |
| | 3945.78 (NGVD 29 DATUM) |
| | TIE TO THE PROJECT BENCHMARK IS NOD5052.F, 3,020.83 |
| | CORNER OF TRACT 11, NELLIE D. MANDY SURVEY, N. 228 |
| DATE | |
| BY | |

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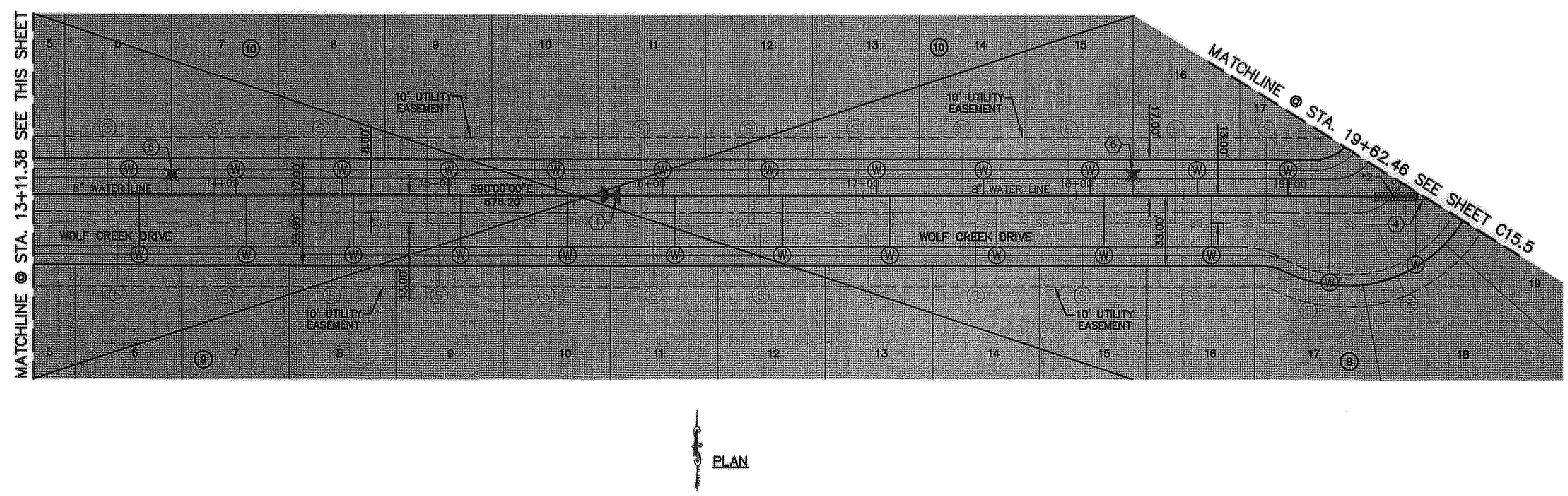
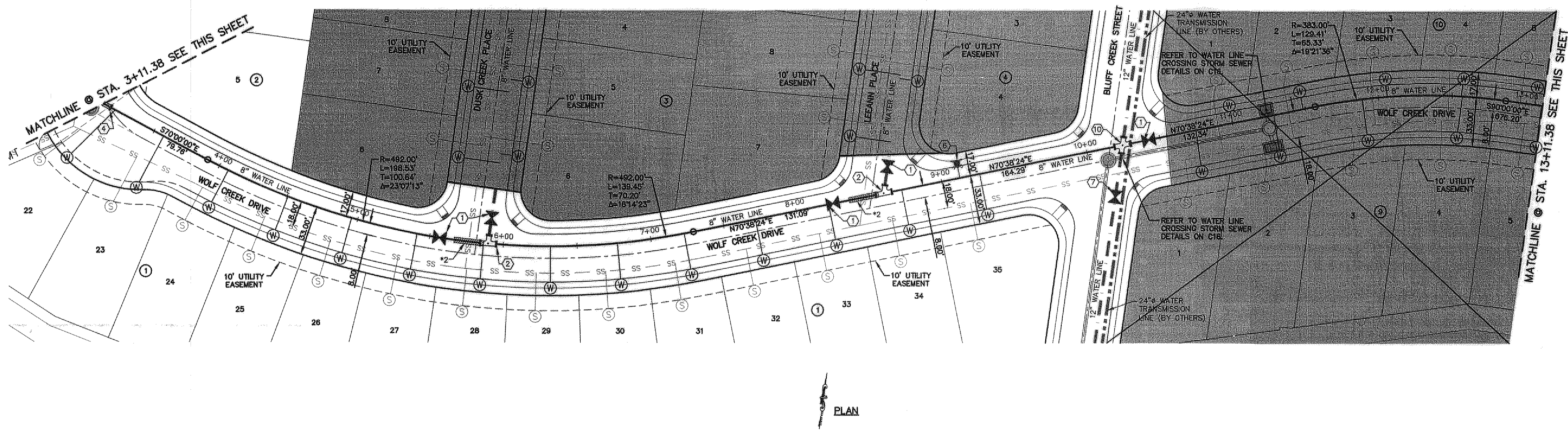
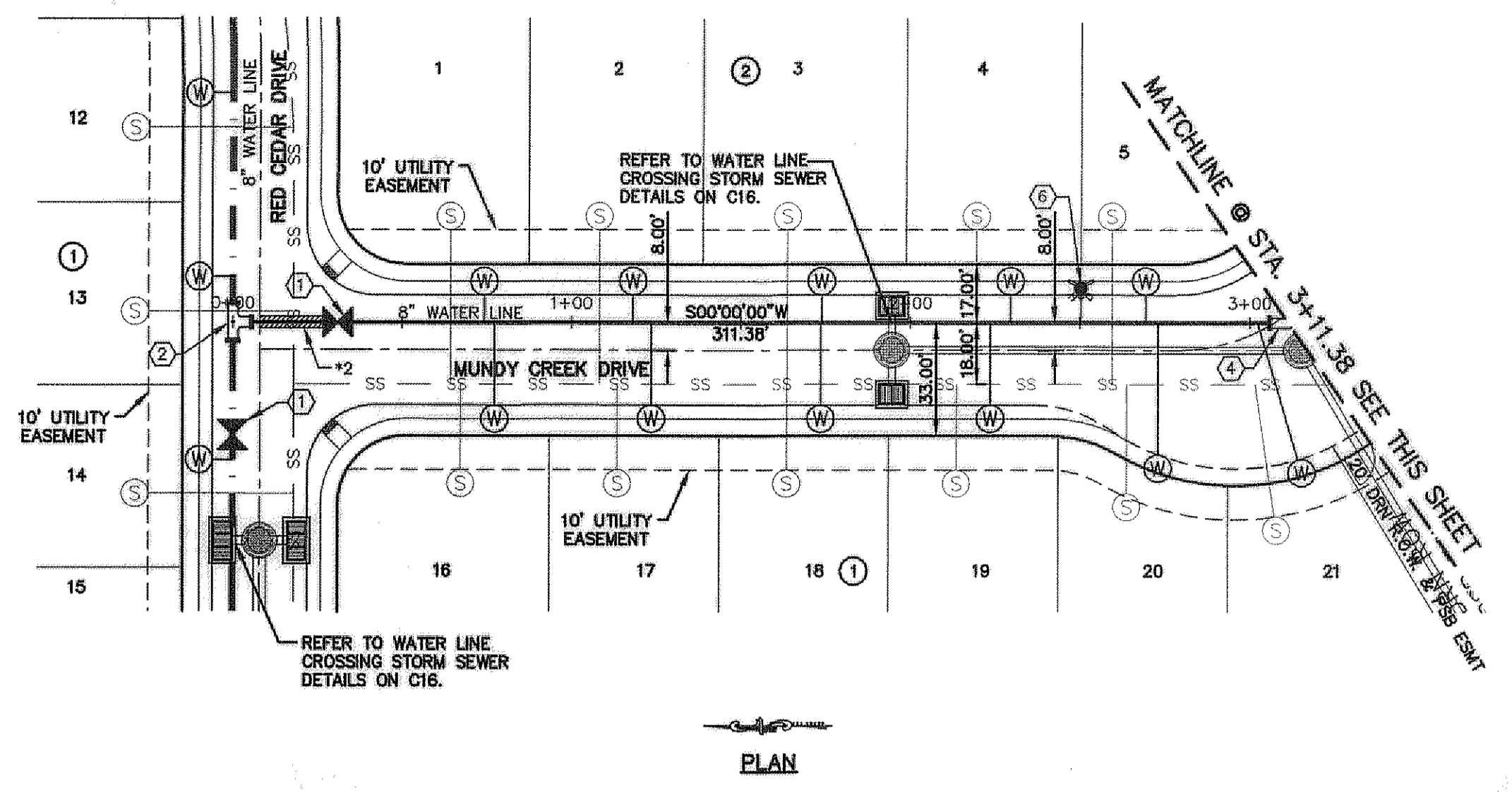
SCALE: 1"=40'

| | |
|-------------------|-------------|
| Horizontal: | 1"=50' |
| Vertical: | 1"=5' |
| Contour Interval: | N/A |
| DATE: | JUNE 2012 |
| DESIGN BY: | A.H. |
| DRAWN BY: | J.M. |
| CHKD. BY: | J.L.A. |
| APPROV. BY: | A.H. |
| JOB NO.: | 2050-013-1D |

PROJECT TITLE
DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SHEET TITLE
WATER PLAN VIEW
RED CEDAR DRIVE
 (SHEET 3 OF 7)
 SHEET NO.

C15.3



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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

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1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

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10/24/2013

THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPHU PHASE II.

REFERENCE SUBDIVISION PHASE II

REFERENCES - BENCHMARKS

FOUND N.G.S. SURVEY MARKER STAMPED "CHIROD 1980" ELEVATION: 3946.11 (NAVD 88 DATUM)

SHOWN TO THE PROJECT'S 78 (NAD 83 DATUM) CORNER FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE L. HUNDY SURVEY No. 239

DATE REVISIONS

LEGEND

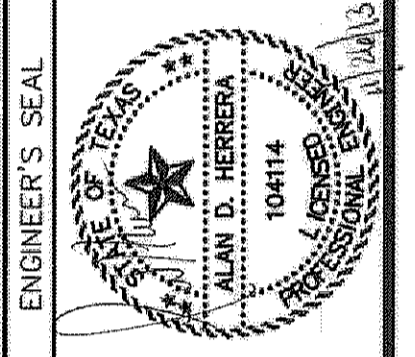
| SYMBOL | DESCRIPTION |
|---------|---|
| --- | STREET R.O.W. LINE |
| --- | PROPERTY LINE |
| --- | SUBDIVISION BOUNDARY |
| -w-w-w- | 16" WATER LINE BY OTHERS |
| -w-w-w- | EXISTING WATER LINE |
| --- | PROPOSED 8" / 12", C-900 P.V.C. PIPE |
| --- | PROPOSED 8" / 12", C-900 P.V.C. PIPE (SEE OTHER LINE) |
| --- | 24" WATER TRANSMISSION LINE (BY OTHERS) |
| SS | PROPOSED SANITARY SEWER |
| --- | PROPOSED STORM SEWER |
| ⊙ | PROPOSED SEWER SERVICE CONNECTION |
| ⊙ | PROPOSED WATER SERVICE CONNECTION |
| ⊙ | PROPOSED FIRE HYDRANT, KENNEDY OR MUELLER MODEL |
| ⊙ | EXISTING GATE VALVE |
| ⊙ | PROPOSED GATE VALVE |
| ⊙ | TEE |
| ⊙ | CROSS |
| ⊙ | BEND(S) |
| ⊙ | 16" X 12" REDUCER |
| ⊙ | PLUG |
| ⊙ | POINT OF TANGENCY |
| ⊙ | *1 24" STEEL CASING TO BE CENTERED ON SEWER CROSSING. |
| ⊙ | *2 DUCTILE IRON PIPE. SEE DETAILS ON SHEET C16.3 |

WATER KEYED NOTES

| | |
|---|---------------------|
| ① | 8" ⌀ GATE VALVE |
| ② | 8" X 8" X 8" TEE |
| ③ | 8" CROSS |
| ④ | 8" BEND |
| ⑤ | 8" PLUG |
| ⑥ | FIRE HYDRANT |
| ⑦ | 12" ⌀ GATE VALVE |
| ⑧ | 12" X 12" X 8" TEE |
| ⑨ | 12" X 12" X 12" TEE |
| ⑩ | 8" X 12" CROSS |
| ⑪ | 12" CROSS |
| ⑫ | 12" BEND |
| ⑬ | 12" PLUG |
| ⑭ | 8" X 8" X 12" TEE |
| ⑮ | 16" X 12" REDUCERS |
| ⑯ | 16" PLUG |
| ⑰ | 16" BUTTERFLY VALVE |
| ⑱ | 12" X 16" CROSS |
| ⑲ | 8" FLUSH VALVE |
| ⑳ | 16" X 16" X 8" TEE |
| ㉑ | 24" X 24" X 12" TEE |
| ㉒ | 16" X 16" X 12" TEE |
| ㉓ | 24" X 16" CROSS |
| ㉔ | 16" X 16" X 16" TEE |
| ㉕ | 24" X 24" X 16" TEE |

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Caster Center @ Transmountain
4712 Woodrow Bean, Ste. F El Paso, TX 79904
Office: (915) 772-1123
TEAS REGISTRATION NO. 4694



SCALE: 1"=40'

Horizontal: 1"=50'

Vertical: 1"=5'

Contour Interval: N/A

DATE: JUNE 2012

DESIGN BY: A.H.

DRAWN BY: J.A.H.

CHKD. BY: J.A.H.

APPVD. BY: A.H.

JOB No. 2050-013-LD

PROJECT TITLE

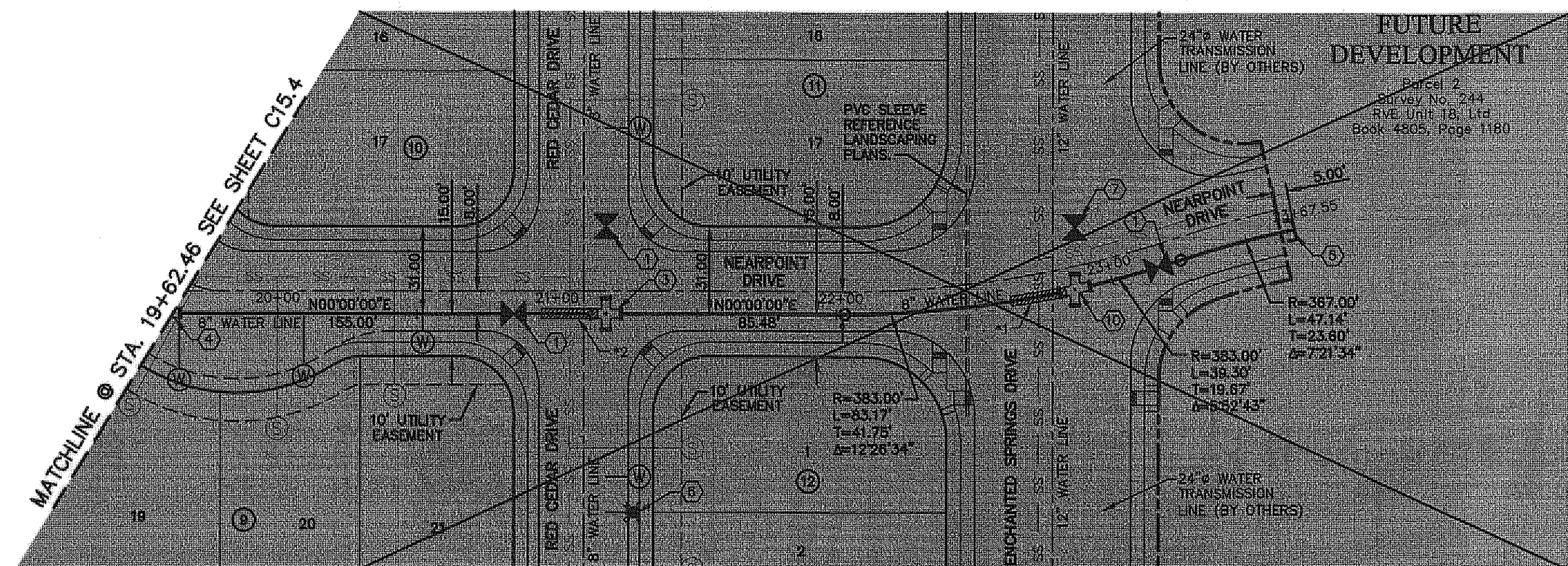
**DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

WATER PLAN VIEW
WOLF CREEK PLACE

(SHEET 4 OF 7)
SHEET NO.

C15.4



PLAN

WATER KEYED NOTES

- ① 8" Ø GATE VALVE
- ② 8" X 8" X 8" TEE
- ③ 8" CROSS
- ④ 8" BEND
- ⑤ 8" PLUG
- ⑥ FIRE HYDRANT
- ⑦ 12" Ø GATE VALVE
- ⑧ 12" X 12" X 8" TEE
- ⑨ 12" X 12" X 12" TEE
- ⑩ 8" X 12" CROSS
- ⑪ 12" CROSS
- ⑫ 12" BEND
- ⑬ 12" PLUG
- ⑭ 8" X 8" X 12" TEE
- ⑮ 16" X 12" REDUCERS
- ⑯ 16" PLUG
- ⑰ 16" BUTTERFLY VALVE
- ⑱ 12" X 16" CROSS
- ⑲ 8" FLUSH VALVE
- ⑳ 16" X 16" X 8" TEE
- ㉑ 24" X 24" X 12" TEE
- ㉒ 16" X 16" X 12" TEE
- ㉓ 24" X 16" CROSS
- ㉔ 16" X 16" X 16" TEE
- ㉕ 24" X 24" X 16" TEE

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 10/24/2013

UTILITY LOCATOR SERVICES

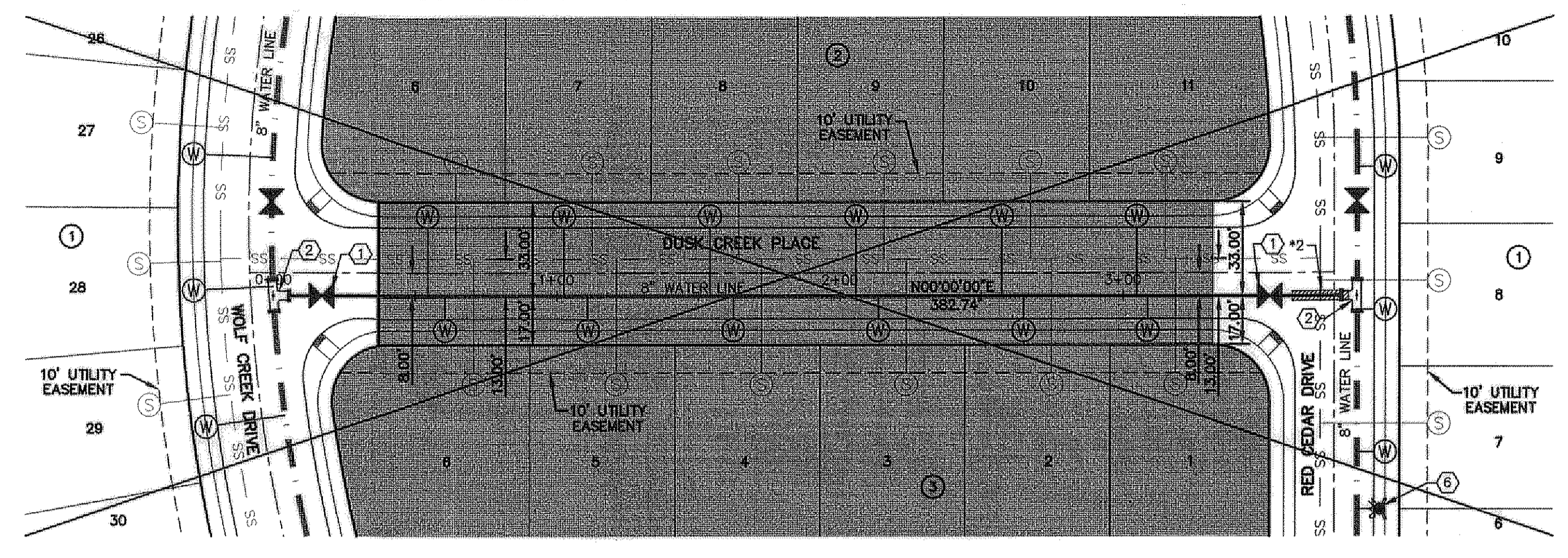
| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5800 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONECK PARTNERS | (915) 595-6918 |
| AT&T | (800) 521-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING!
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 CALL
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 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

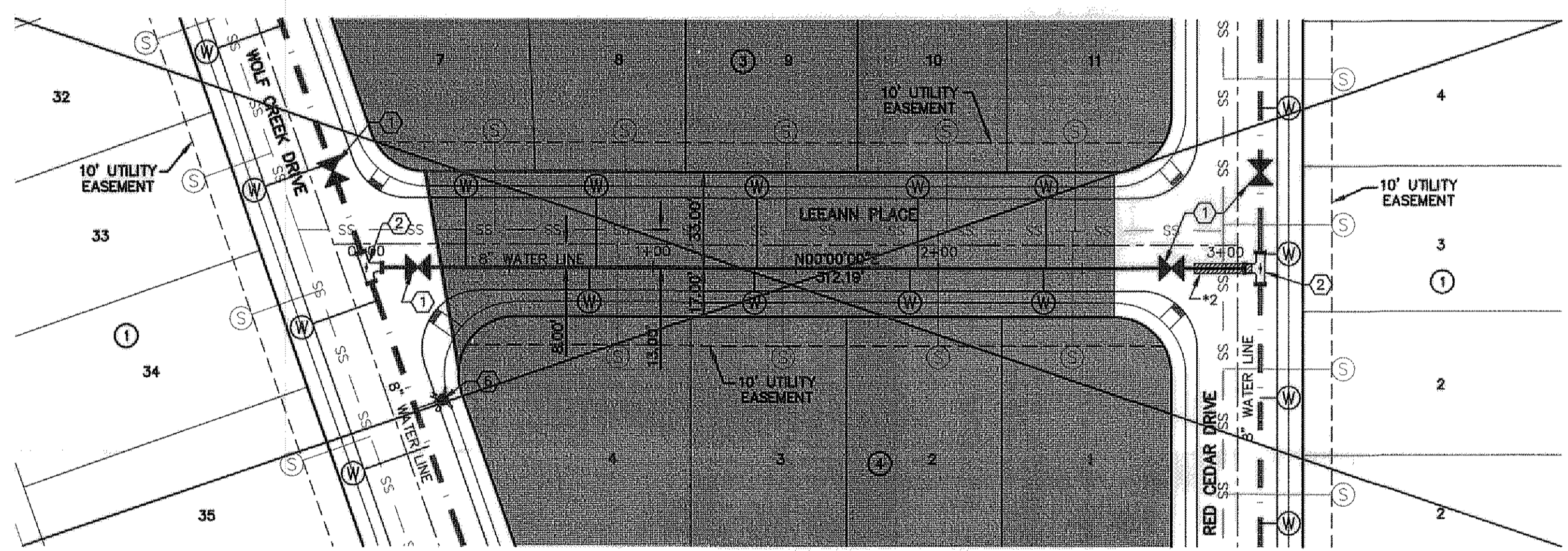
REFERENCES - BENCHMARKS
 FOUND N.A.S. SURVEY MARKER STAMPED "CHINO 1989" SHOWING (NAD 83 DATUM) 3836.95 (CITY OF EL PASO VERTICAL DATUM ELEVATION) 3846.76 (NGVD 29 DATUM)
 TIE TO THE PROJECT BENCHMARK IS NAD83/0327E, 3,026.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. WARDY SURVEY No. 239
 DATE: _____ BY: _____

DESIGNER'S SEAL

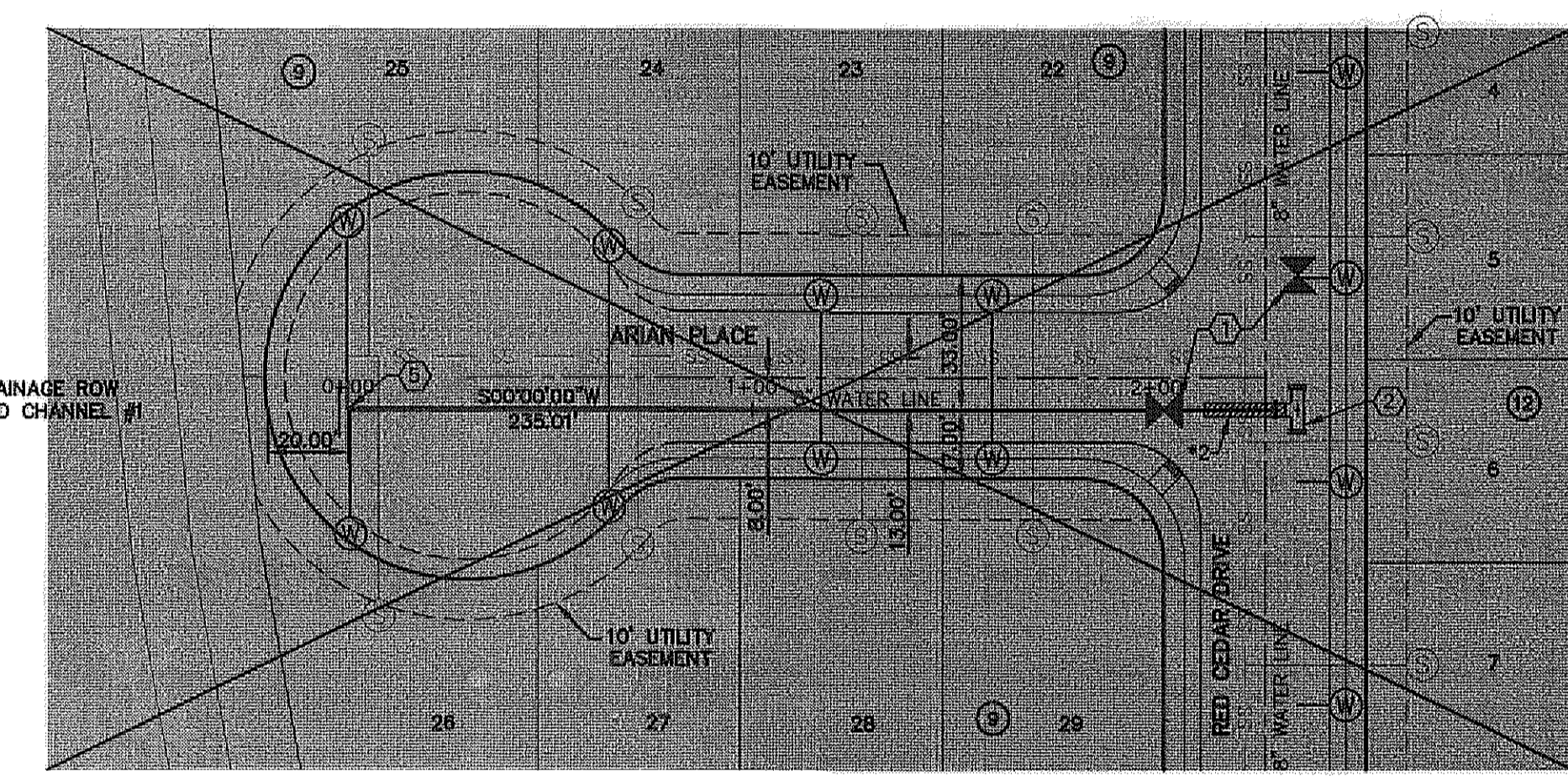
 engineers • architects • planners
 CityCenter Architects, Inc.
 4712 Woodrow Blvd., Ste. F El Paso, TX 79904
 Office: 915.544.5252 Fax: 915.544.5233 www.citycenter.net
 TEXAS FIRM REGISTRATION NO. 4894



PLAN



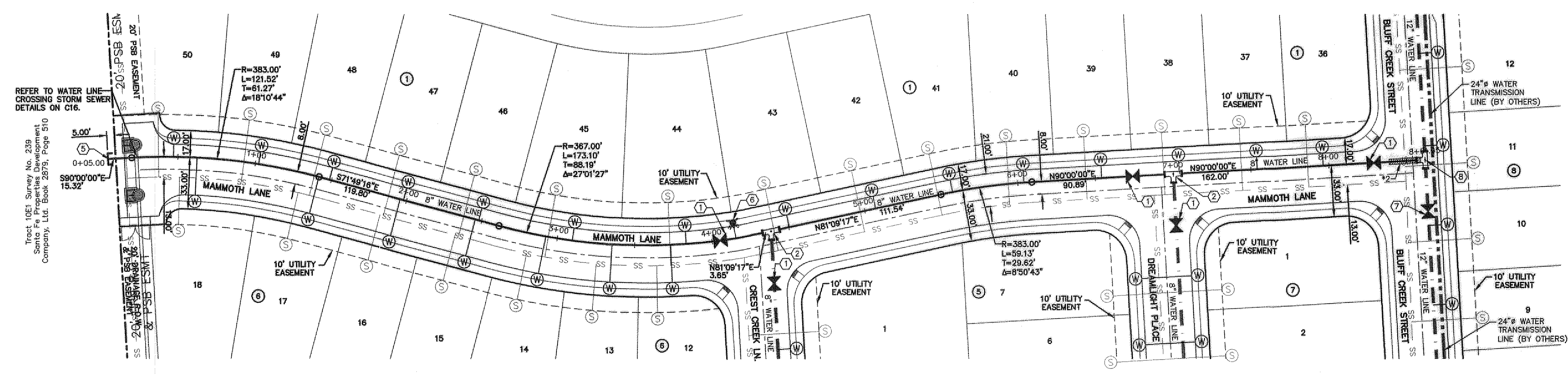
PLAN



PLAN

LEGEND

| SYMBOL | DESCRIPTION |
|---------|---|
| --- | STREET R.O.W. LINE |
| --- | PROPERTY LINE |
| - - - - | SUBDIVISION BOUNDARY |
| W W W W | 16" WATER LINE BY OTHERS |
| W W W W | EXISTING WATER LINE |
| W W W W | PROPOSED 8" / 12", C-900 P.V.C. PIPE |
| W W W W | PROPOSED 8" / 12", C-900 P.V.C. PIPE (SEE OTHER LINE) |
| W W W W | 24" WATER LINE |
| W W W W | 24" Ø WATER TRANSMISSION LINE (BY OTHERS) |
| SS ○ SS | PROPOSED SANITARY SEWER |
| SS ○ SS | PROPOSED STORM SEWER |
| ○ | PROPOSED SEWER SERVICE CONNECTION |
| ○ | PROPOSED WATER SERVICE CONNECTION |
| ⊛ | PROPOSED FIRE HYDRANT, KENNEDY OR MUELLER MODEL |
| ⊛ | EXISTING GATE VALVE |
| ⊛ | PROPOSED GATE VALVE |
| ⊞ | TEE |
| ⊞ | CROSS |
| ⊞ | BEND(S) |
| ⊞ | 16" X 12" REDUCER |
| ⊞ | PLUG |
| ○ | POINT OF TANGENCY |
| ⊞ | *1 24" STEEL CASING TO BE CENTERED ON SEWER CROSSING. |
| ⊞ | *2 DUCTILE IRON PIPE. SEE DETAILS ON SHEET C16.3 |



PLAN

ENGINEER'S SEAL

 SCALE: 1"=40'
 Horizontal: 1"=5'
 Vertical: Contour Interval: 10'/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APPVD. BY: A.H.
 JOB NO. 2050-013-LD

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 WATER PLAN VIEW
 NEARPOINT DRIVE,
 DUSK CREEK PLACE,
 LEEANN PLACE &
 MAMMOTH PLACE
 (SHEET 5 OF 7)

SHEET NO.
 C15.5

RECORD DRAWINGS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

10/24/2013

THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPWU PHASE II.

REFERENCE SUBDIVISION PHASE II

UTILITY LOCATOR SERVICES

| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| NCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING! BEFORE YOU DIG

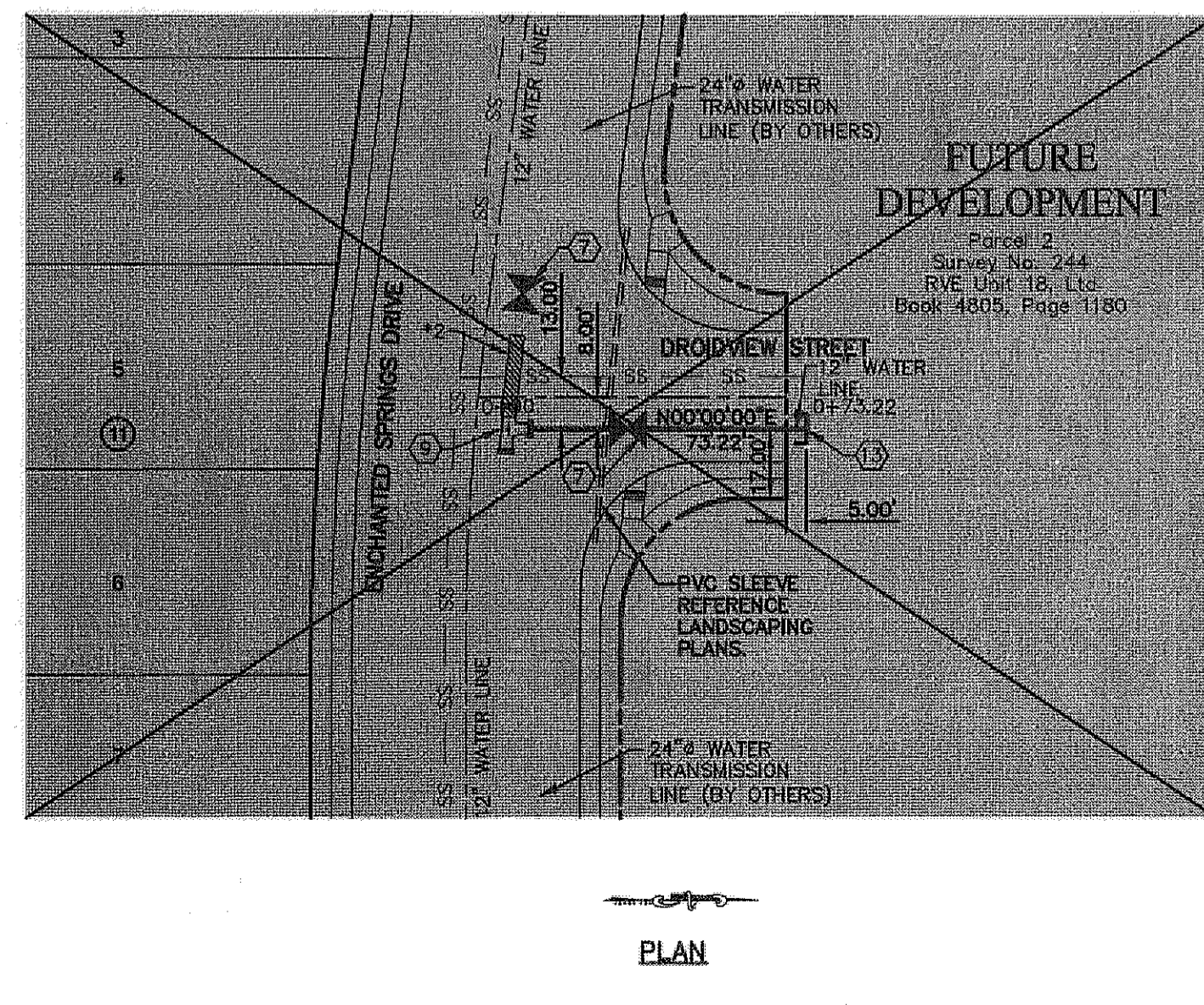
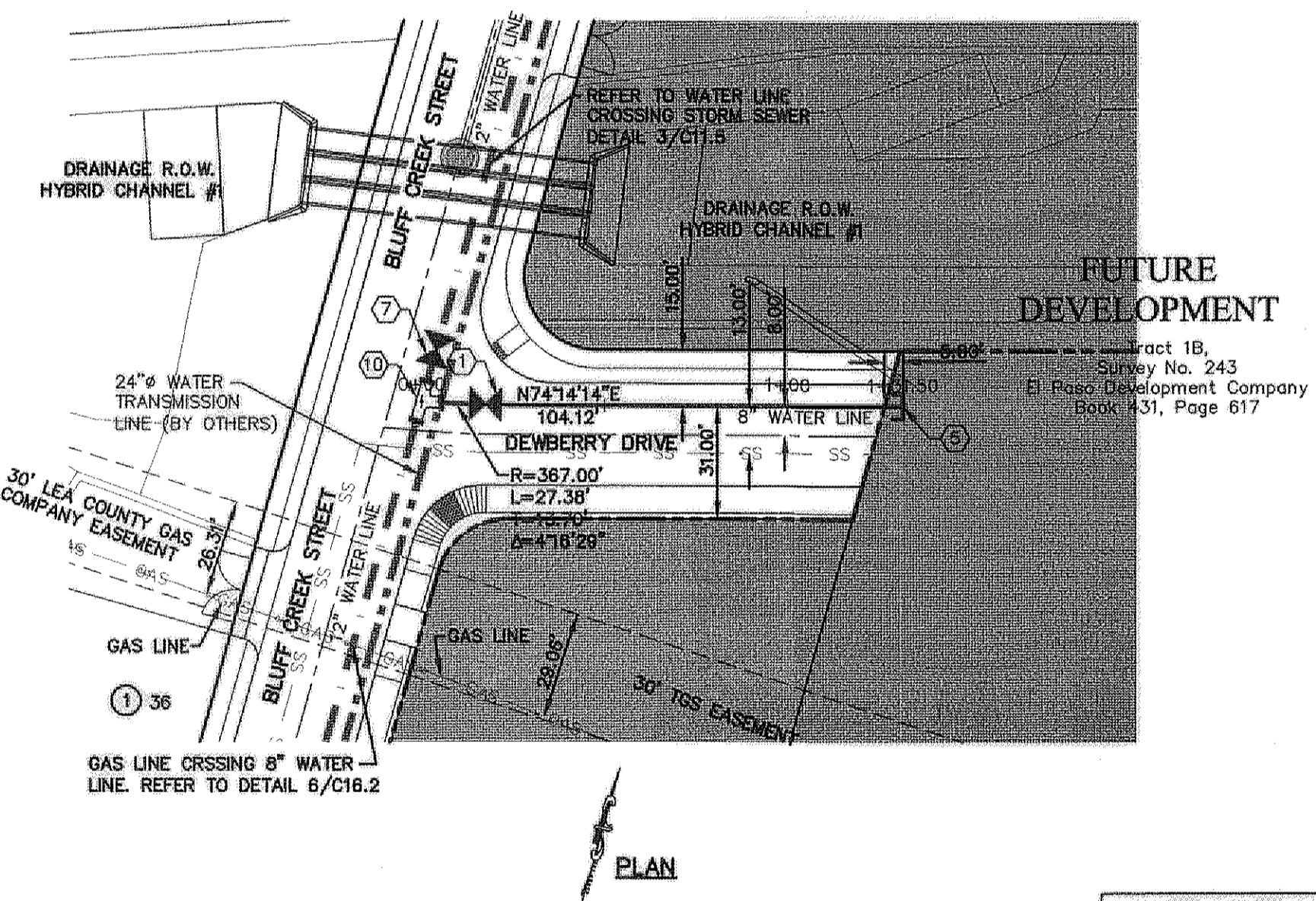
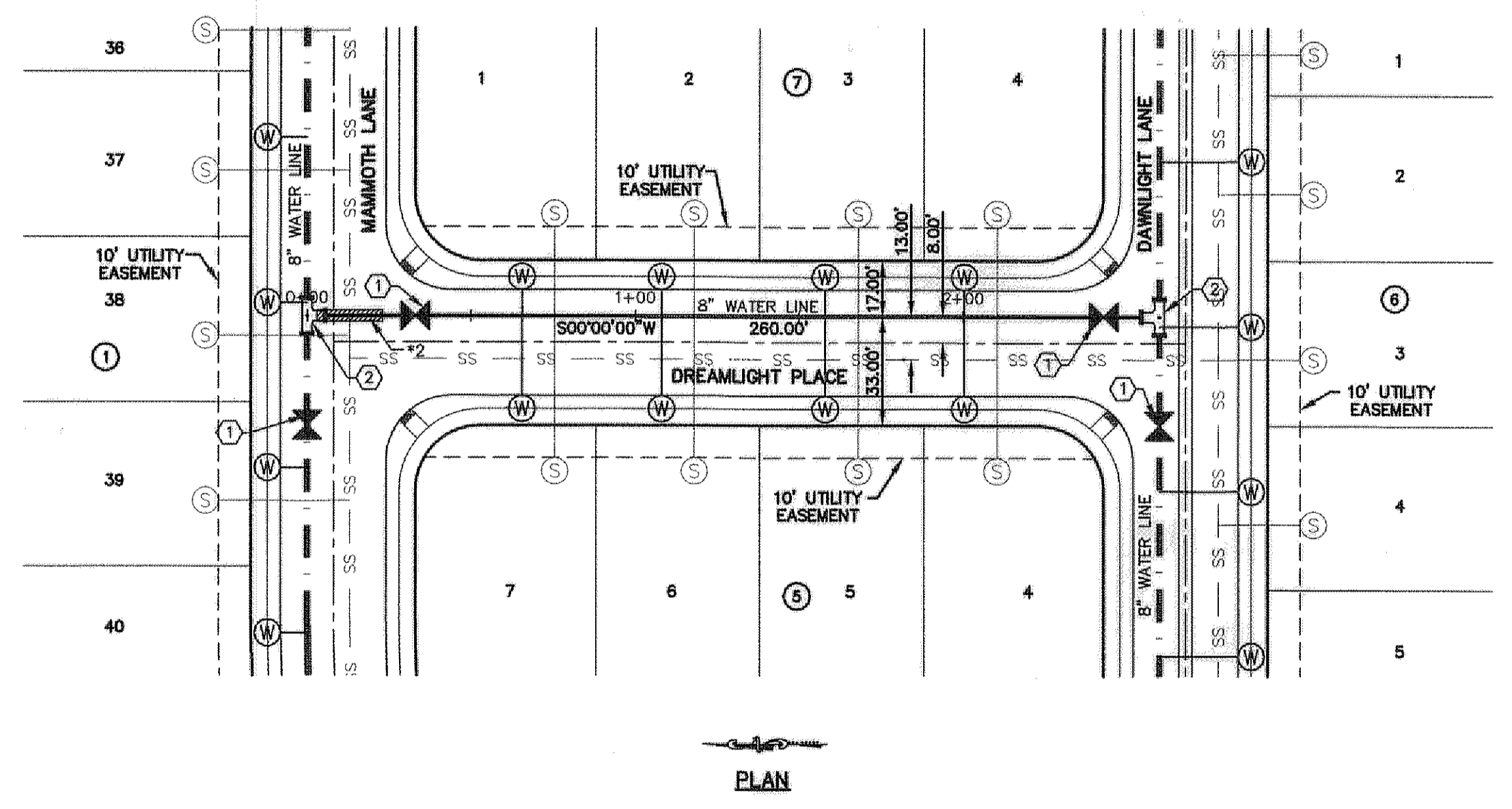
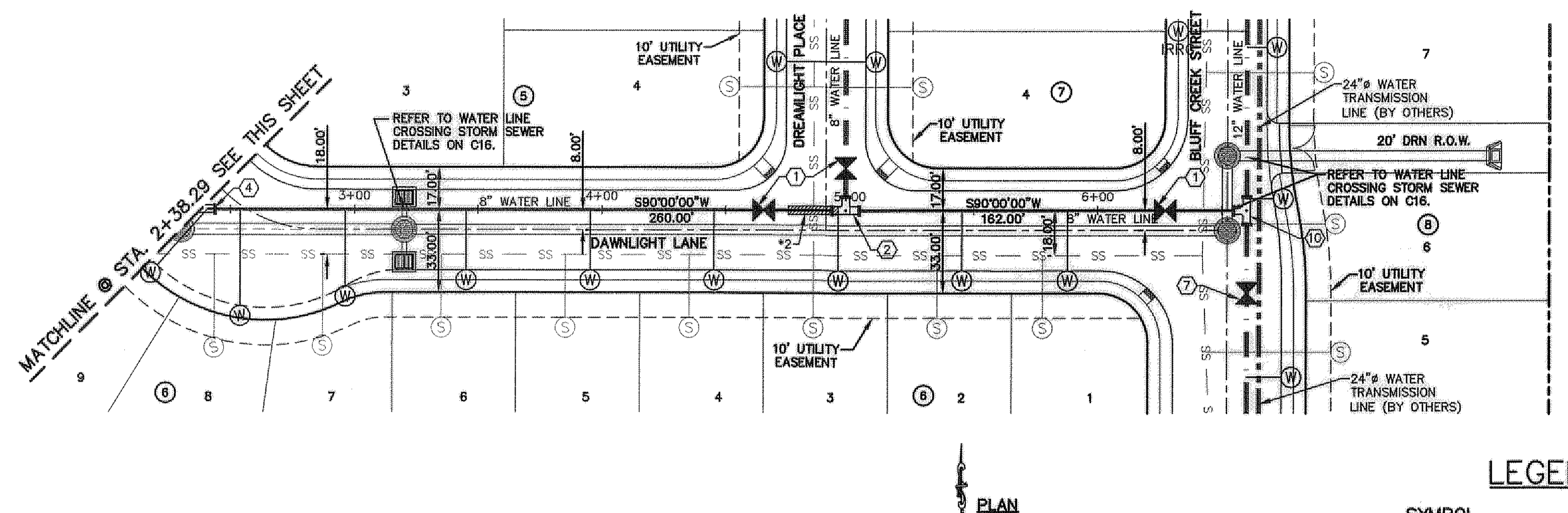
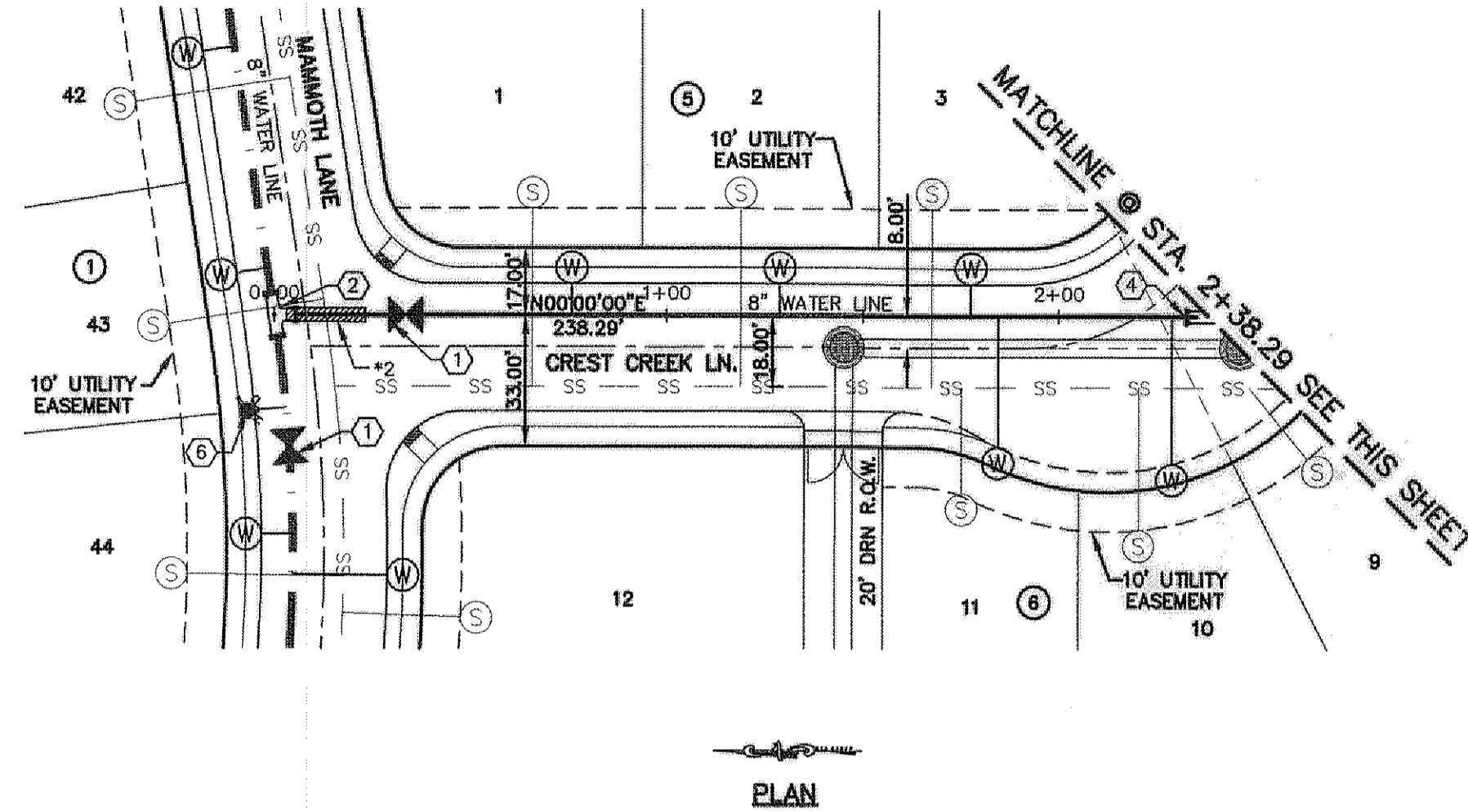
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

| | |
|---|--|
| FOUND N.G.S. SURVEY MARKER STATION "CHINO 1880" | ELEVATION: 3936.93 (CITY OF EL PASO VERTICAL DATUM SHOW) |
| FOUND N.G.S. SURVEY MARKER STATION "CHINO 1880" | ELEVATION: 3946.11 (NAVD 88 DATUM) |

NOTE: TO THE PROJECT BENCHMARK IS NAD83/2011, 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLE D. MUNDY SURVEY NO. 239

| | | |
|----|------|-----------|
| BY | DATE | REVISIONS |
| | | |



LEGEND

| SYMBOL | DESCRIPTION |
|-----------|---|
| --- | STREET R.O.W. LINE |
| --- | PROPERTY LINE |
| --- | SUBDIVISION BOUNDARY |
| W - W - W | 16" WATER LINE BY OTHERS |
| W - W - W | EXISTING WATER LINE |
| W - W - W | PROPOSED 8" / 12", C-900 P.V.C. PIPE |
| W - W - W | PROPOSED 8" / 12", C-900 P.V.C. PIPE (SEE OTHER LINE) |
| W - W - W | 24" WATER TRANSMISSION LINE (BY OTHERS) |
| SS - SS | PROPOSED SANITARY SEWER |
| SS - SS | PROPOSED SEWER SERVICE CONNECTION |
| SS - SS | PROPOSED WATER SERVICE CONNECTION |
| SS - SS | PROPOSED FIRE HYDRANT, KENNEDY OR MUELLER MODEL |
| SS - SS | EXISTING GATE VALVE |
| SS - SS | PROPOSED GATE VALVE |
| SS - SS | TEE |
| SS - SS | CROSS |
| SS - SS | BEND(S) |
| SS - SS | 16" X 12" REDUCER |
| SS - SS | PLUG |
| SS - SS | POINT OF TANGENCY |
| SS - SS | *1 24" STEEL CASING TO BE CENTERED ON SEWER CROSSING. |
| SS - SS | *2 DUCTILE IRON PIPE. SEE DETAILS ON SHEET C16.3 |

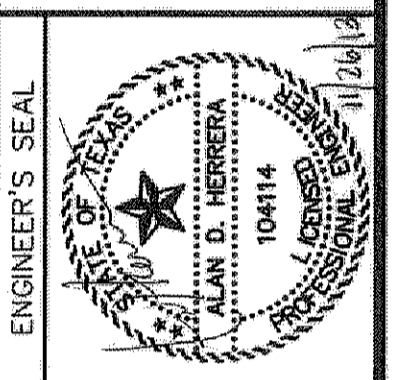
WATER KEYED NOTES

| | |
|----|---------------------|
| 1 | 8" GATE VALVE |
| 2 | 8" X 8" X 8" TEE |
| 3 | 8" CROSS |
| 4 | 8" BEND |
| 5 | 8" PLUG |
| 6 | FIRE HYDRANT |
| 7 | 12" GATE VALVE |
| 8 | 12" X 12" X 8" TEE |
| 9 | 12" X 12" X 12" TEE |
| 10 | 8" X 12" CROSS |
| 11 | 12" CROSS |
| 12 | 12" BEND |
| 13 | 12" PLUG |
| 14 | 8" X 8" X 12" TEE |
| 15 | 16" X 12" REDUCERS |
| 16 | 16" PLUG |
| 17 | 16" BUTTERFLY VALVE |
| 18 | 12" X 16" CROSS |
| 19 | 8" FLUSH VALVE |
| 20 | 16" X 16" X 8" TEE |
| 21 | 24" X 24" X 12" TEE |
| 22 | 16" X 16" X 12" TEE |
| 23 | 24" X 16" CROSS |
| 24 | 16" X 16" X 16" TEE |
| 25 | 24" X 24" X 16" TEE |

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Dallas, TX 75244
Phone: 972.462.4622 Fax: 972.462.4623 www.osaengineers.com



SCALE

Horizontal: 1"=40'

Vertical: 1"=5'

Contour Interval: 10'

DATE: JUNE 2012

DESIGN BY: A.H.

DRAWN BY: J.M.

CHECKED BY: J.L.A.

APPROVED BY: A.H.

JOB NO. 2010-013-LD

PROJECT TITLE

DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

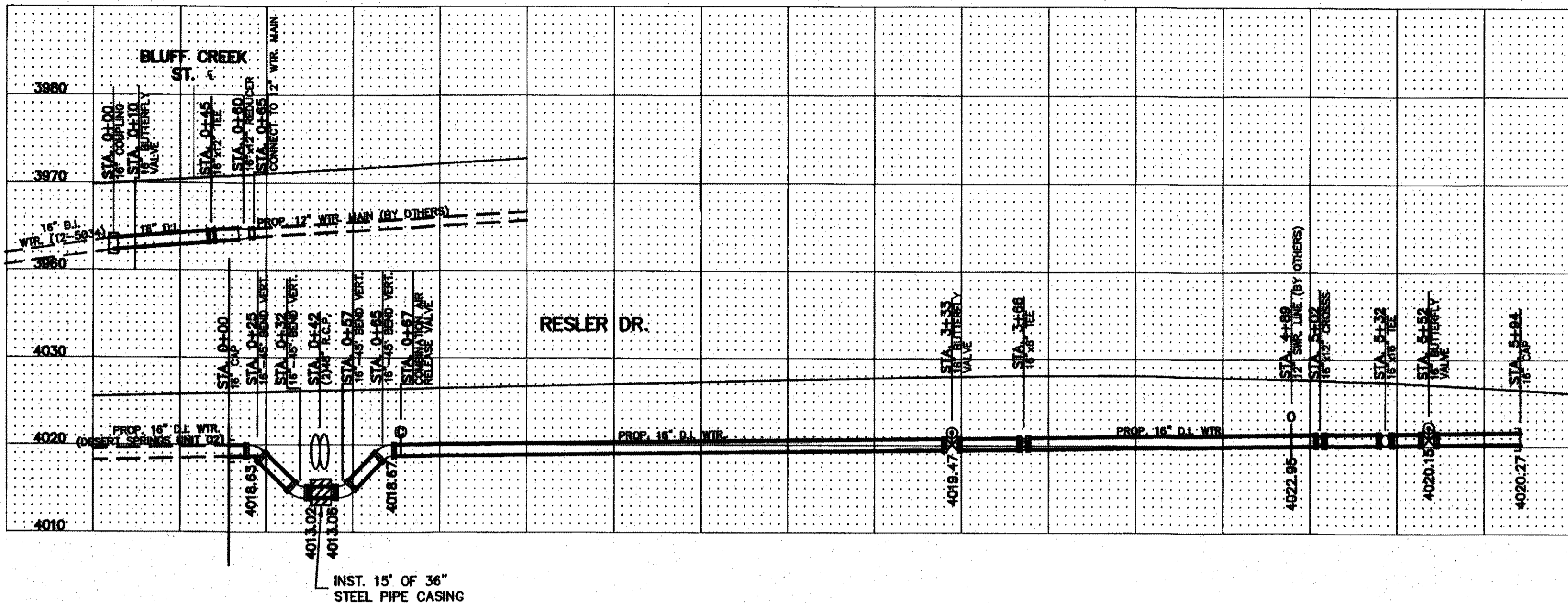
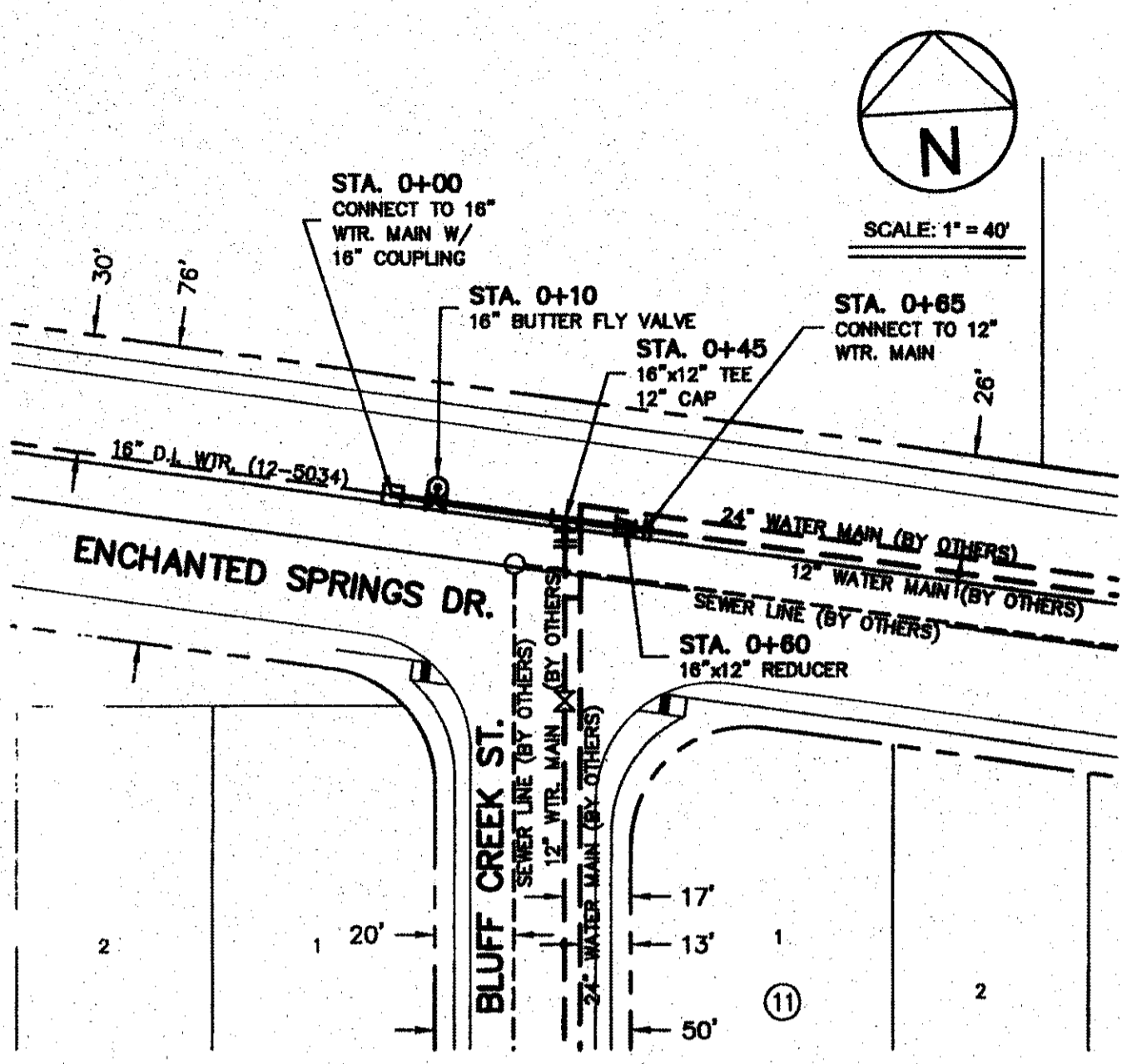
SHEET TITLE

WATER PLAN VIEW DAWNLIGHT LANE, DREAMLIGHT PLACE, DEWBERRY PLACE, & NORTHVIEW STREET

(SHEET 6 OF 7)

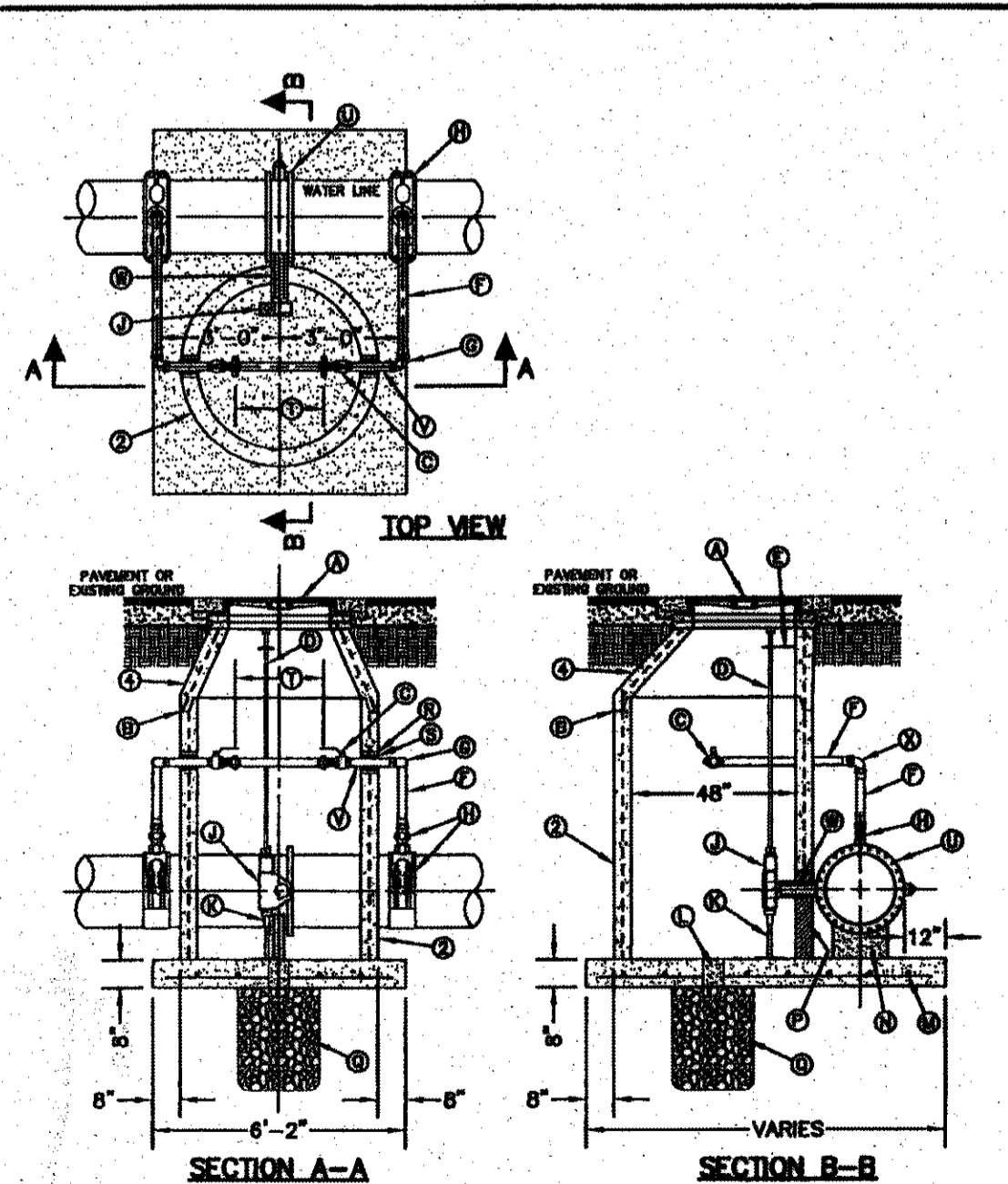
SHEET NO.

C15.6



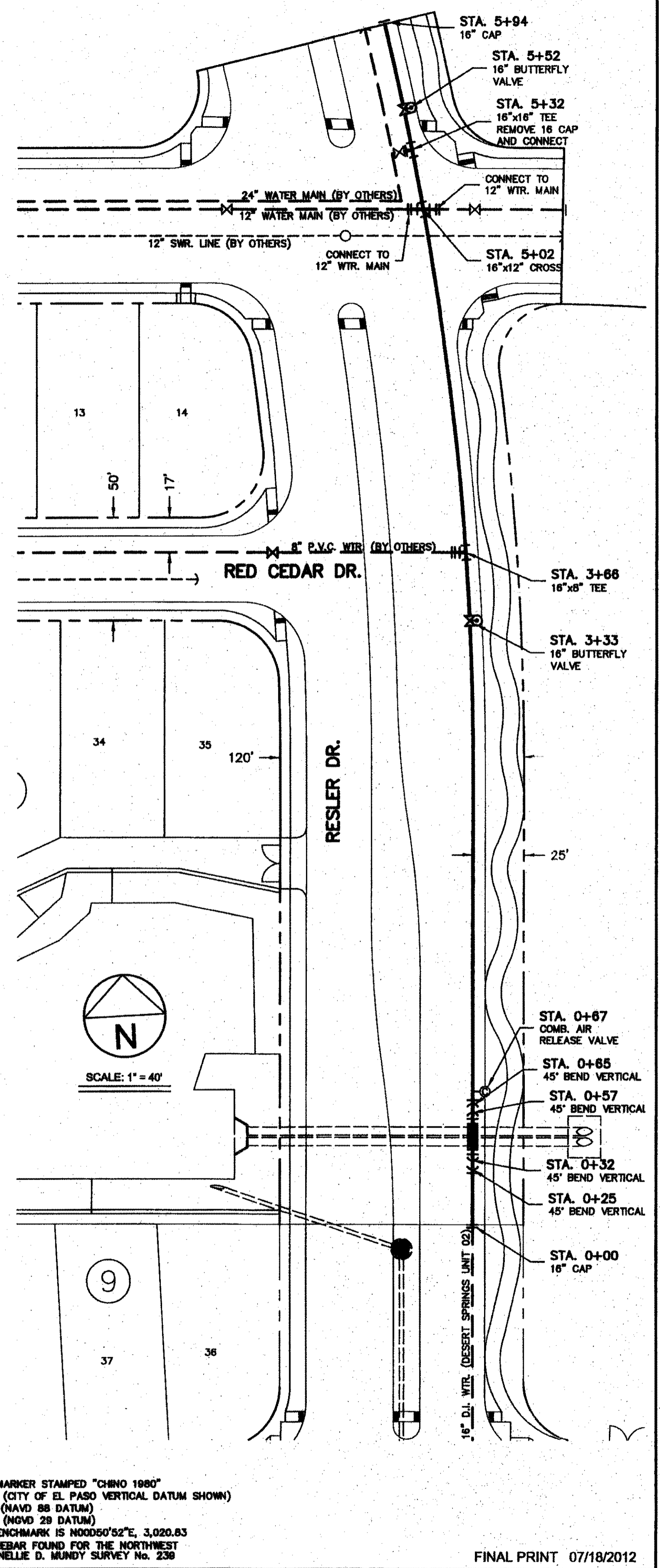
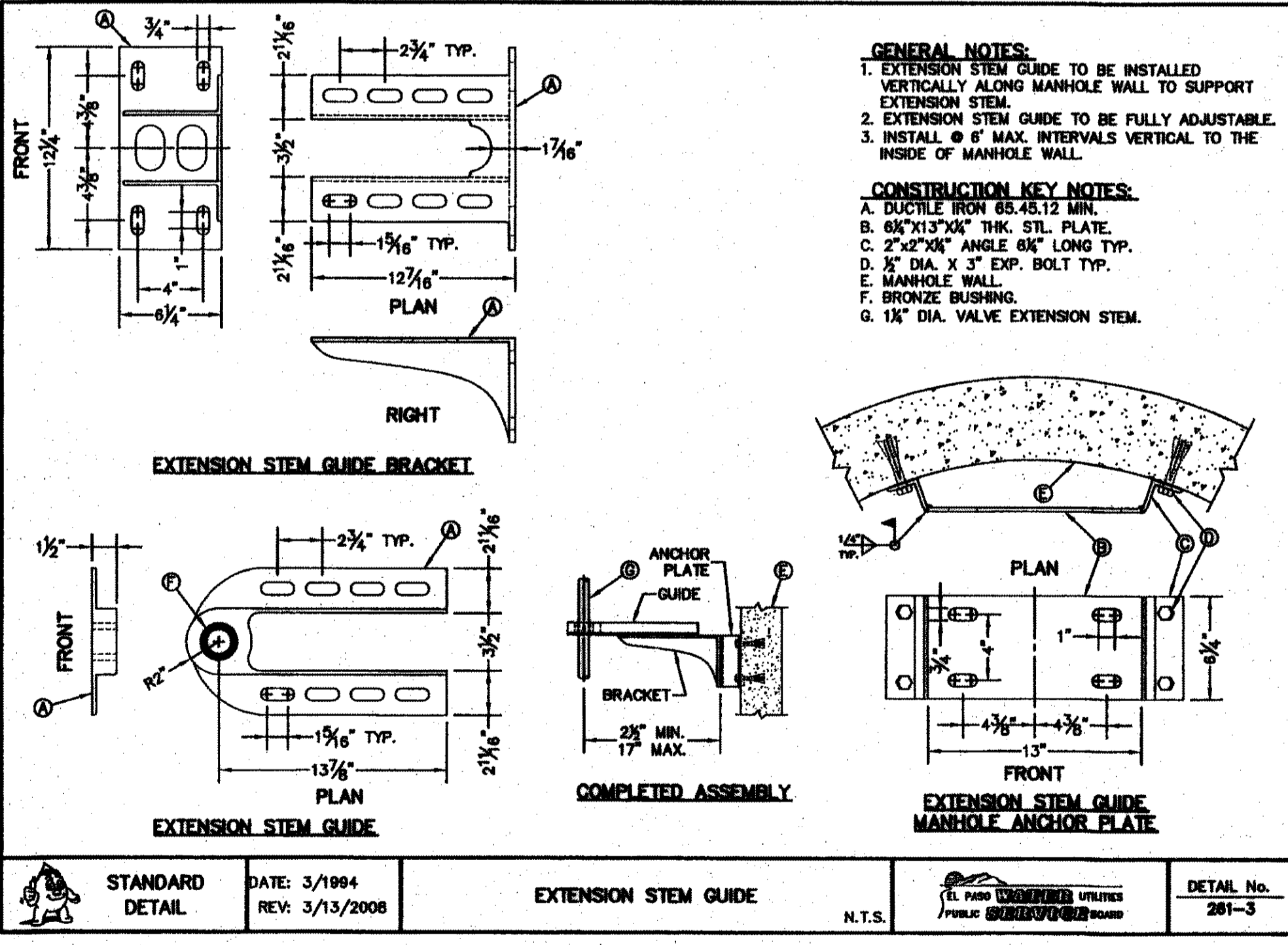
| STREET NAMES | LENGTH, SIZE AND TYPE OF PIPE |
|-----------------------|---------------------------------|
| ENCHANTED SPRINGS DR. | 85 FT. OF 16" D.I. (CLASS 350) |
| RESLER DR. | 594 FT. OF 16" D.I. (CLASS 350) |

- WATER NOTES:**
- CONTACT UTILITY COMPANIES FOR EXACT LOCATION OF UNDERGROUND UTILITIES IN THIS AREA BEFORE EXCAVATION.
 - INSTALL A TRENCH SAFETY SYSTEM TO PROVIDE FOR THE SAFE EXCAVATION OF ALL TRENCHES EXCEEDING A DEPTH OF (5) FEET AS PER O.S.H.A. STANDARDS.
 - PROVIDE ADEQUATE CONCRETE THRUST BLOCKING AT THE FOLLOWING: TAPPING SLEEVES, TEES, BENDS, PLUGS AND ALL FITTINGS.
 - ALL VALVES ON P.V.C. WATER MAINS SHALL BE ANCHORED IN CONCRETE.
 - P.V.C. PIPE SHALL BE PLACED WITH SELECT BEDDING MATERIAL ALL AROUND.
 - CITY PAVING CUT PERMIT REQUIRED BEFORE EXCAVATION.
 - SEPARATION DISTANCES BETWEEN WATER & SEWER MAINS SHALL COMPLY WITH TOSD STANDARDS.
 - CONSTRUCTION OF PUBLIC WATER & SANITARY SEWER MAINS, INCLUDING MATERIALS & TESTING SHALL COMPLY WITH EPWU STANDARD SPECIFICATION FOR THE INSTALLATION OF WATER MAINS, SEWER MAINS & RELATED APPURTENANCES.



| | | | | |
|-----------------|--------------------------------|---|--------|------------------|
| STANDARD DETAIL | DATE: 3/1994 REV: 7/20/2008 | BUTTERFLY VALVE IN MANHOLE INSTALLATION FOR 16" AND 20" WATER LINES | N.T.S. | DETAIL No. 281-2 |
|-----------------|--------------------------------|---|--------|------------------|

- GENERAL NOTES:**
- INSTALLATION APPLICABLE TO P.V.C. & DUCTILE IRON WATER MAINS ONLY. INSTALLATION FOR OTHER PIPE MATERIALS REQUIRE E.P.W.U. APPROVAL.
 - PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET 160-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" @ OPENINGS OR KNOCKOUTS. OPENINGS (UP TO 6") MADE IN FIELD SHALL BE CORE DRILLED.
 - MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
 - EXCAVATING CONE SECTION REINFORCEMENT IN ACCORDANCE WITH ASTM C-478.
- CONSTRUCTION KEY NOTES:**
- MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 180).
 - ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEX OR APPROVED EQUAL.
 - 2" BALL VALVE (NORMALLY CLOSED).
 - 1/4" DIAMETER SOLID STEEL EXTENSION STEM WITH SQUARE SOCKET ON BOTTOM TO FIT 2" SQUARE VALVE NUT AND 2" SQUARE OPERATOR NUT ON TOP.
 - ADJUSTABLE EXTENSION STEM GUIDE (AS PER DETAIL 281-3) @ 6" MAX. INTERVALS.
 - 2" COPPER PIPE (TYPE-K).
 - THREADED END TO FLARED END 90° ELBOW (TYP.).
 - 20"x2" OR 16"x2" SADDLE TAP WITH 2" CORPORATION STOP.
 - BUTTERFLY VALVE OPERATOR.
 - ADJUSTABLE SUPPORT OR APPROVED EQUAL.
 - 6" DIAMETER DRAIN HOLE FILLED WITH GRAVEL.
 - 12" C.C.E.W.
 - CONCRETE SUPPORT.
 - NOTCH MANHOLE SECTION FOR VALVE OPERATOR. FILL WITH BRICK AND MORTAR AFTER VALVE INSTALLATION.
 - 24" DIAMETER BY 2'-6" DEEP GRAVEL SUMP.
 - CEMENT GROUT.
 - PREMIUM GRADE ASPHALT EXPANSION JOINT.
 - INSTALL A 2" DIA. BRASS SPOOL PIECE WITH FLANGED ENDS. ONE SPOOL PIECE TO BE PROVIDED FOR EACH BUTTERFLY VALVE LOCATION. PROVIDE A 1" THREADED OUTLET WITH PLUG ON SPOOL PIECE. ALL SPOOL PIECES TO BE PROVIDED WITH FULL FACE GASKETS.
 - BUTTERFLY VALVE.
 - 2" BRASS NIPPLE PIECE (TYP.).
 - VALVE OPERATOR EXTENSION - 12" LONG.
 - FLARED END TO FLARED END 90° ELBOW (TYP.).



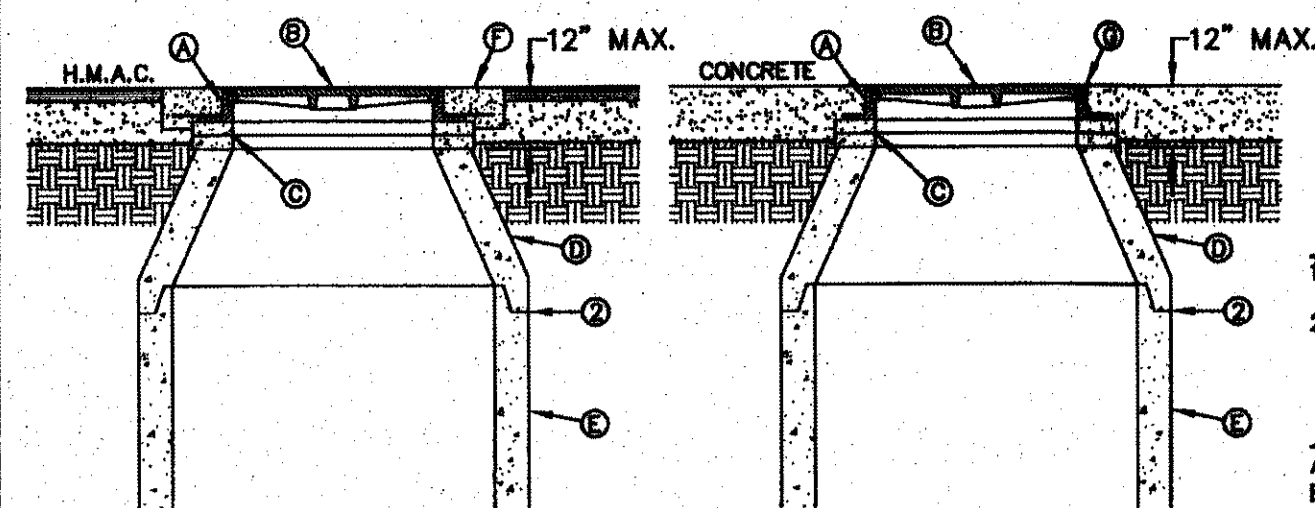
BENCH MARK:
FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
ELEVATION: 3835.93 (CITY OF EL PASO VERTICAL DATUM SHOWN)
3846.11 (NAVD 88 DATUM)
3846.78 (NOVD 28 DATUM)
TIE TO THE PROJECT BENCHMARK IS N00060°52'E, 3,020.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 238

| REVISIONS | DATE | REVISED BY |
|-----------|------|------------|
| | | |
| | | |
| | | |
| | | |
| | | |

| | | | |
|---|------------|-------------|------------|
| EL PASO WATER UTILITIES PUBLIC SERVICE BOARD | | | |
| DESERT SPRINGS UNIT 01 | | | |
| WATER DISTRIBUTION SYSTEM | | | |
| SCALE | DRAWN BY | JOB NO. | DATE |
| HOR. 1" = 40' | M.C. | XX-XXXX | 06/28/2012 |
| VERT. 1" = 10' | CHECKED BY | DESIGNED BY | SHT 1 OF 2 |
| | FL | A.L.C. | |



Jul 18, 2012 - 11:53am
C:\Drawings\1\UBORDER\Desert Springs\desert_springs.dwg

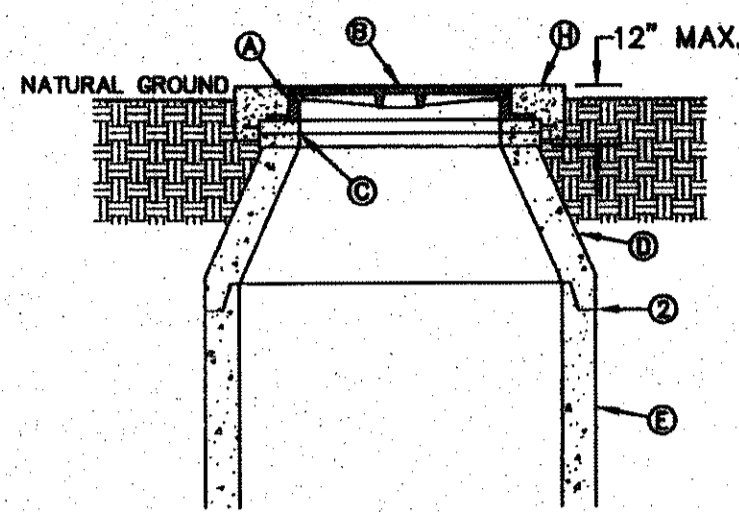


GENERAL NOTES:
 1. MANHOLE TYPE SHALL BE AS SHOWN ON THE PLANS.
 2. SEAL JOINTS PER SPECIFICATIONS.

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

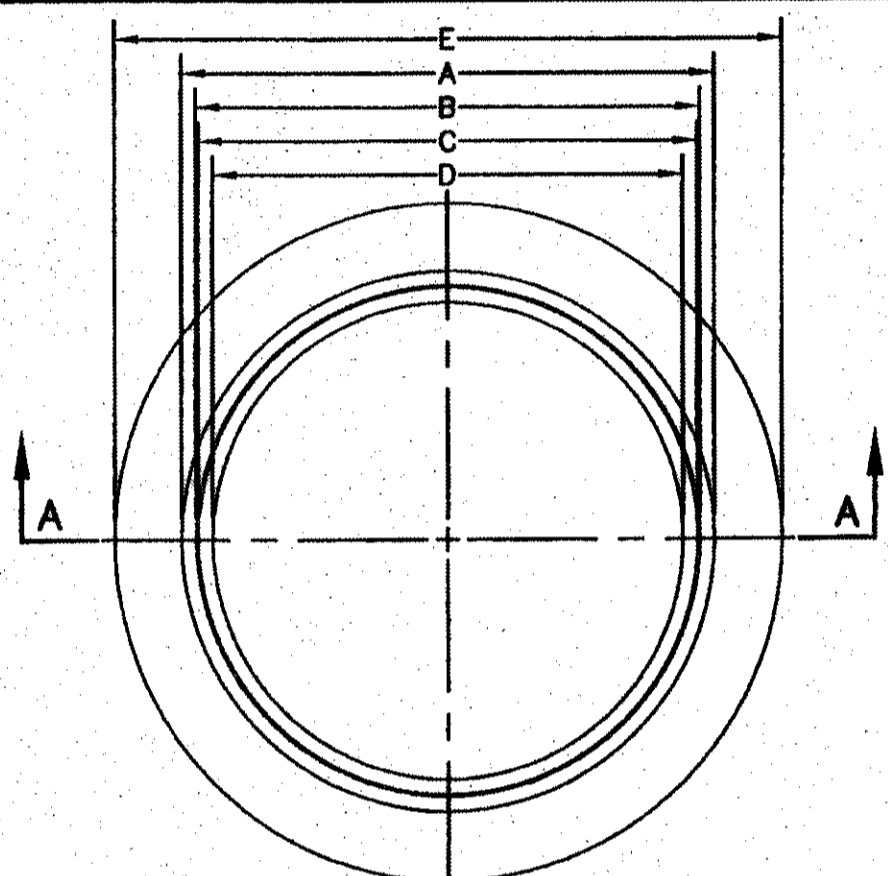
ASPHALT ROADWAY

CONCRETE ROADWAY



UNPAVED AREAS

STANDARD DETAIL DATE: 8/22/2009 REV: MANHOLE RING AND COVER INSTALLATION N.T.S. PUBLIC SERVICE BOARD DETAIL No. 185

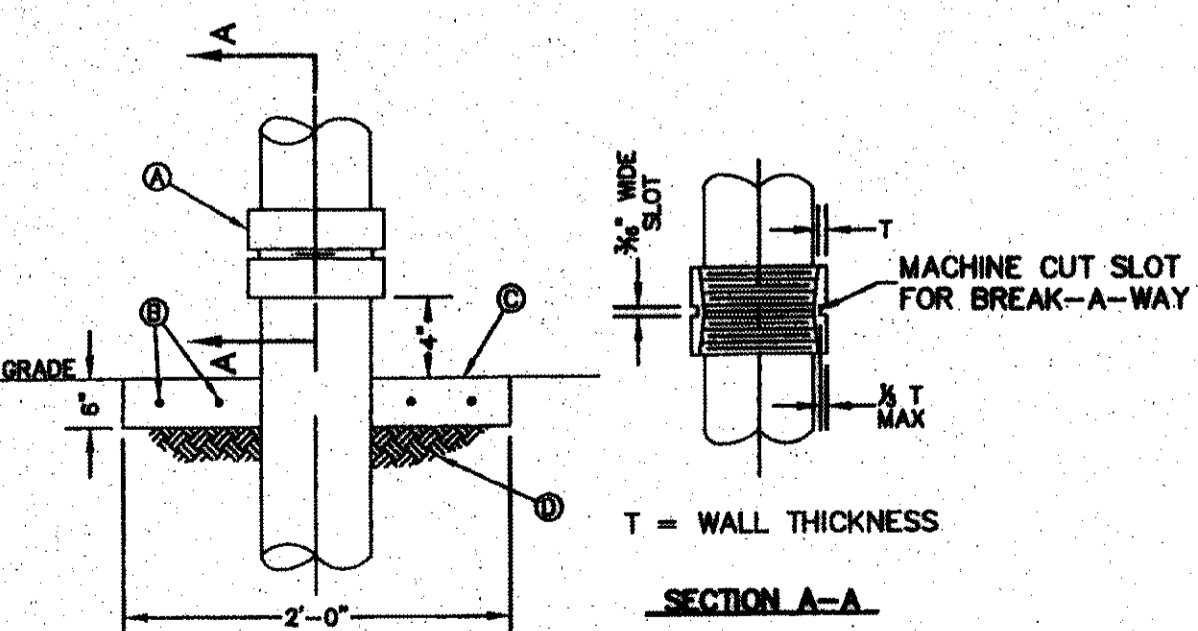


GENERAL NOTES:
 1. MATCHING SURFACES MARKED "MF" TO BE FINISHED TO PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 4. AS-CAST DIMENSIONS MAY VARY 1/8\"/>

| MANHOLE RING | MANHOLE - ALL TYPES | *MANHOLE TYPE A, A1, A2 & C |
|--------------|---------------------|-----------------------------|
| A | 33" | 25 1/2" |
| B | 31 1/2" | 24 1/2" |
| C | 31 1/2" | 23 3/8" |
| D | 30" | 22 1/2" |
| E | 29 1/2" | 32" |
| F | 28" | 1 1/2" |
| WEIGHT | 205 lbs. | 170 lbs. |

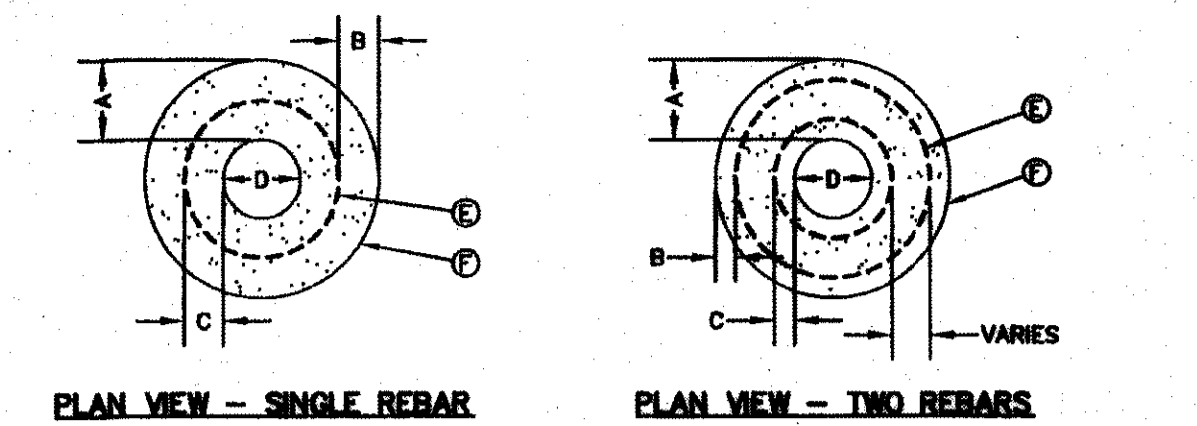
*OBSOLETE - DO NOT USE (FOR REFERENCE ONLY)

STANDARD DETAIL DATE: 11/1992 REV: 2/21/2011 SEWER MANHOLE RING N.T.S. PUBLIC SERVICE BOARD DETAIL No. 377



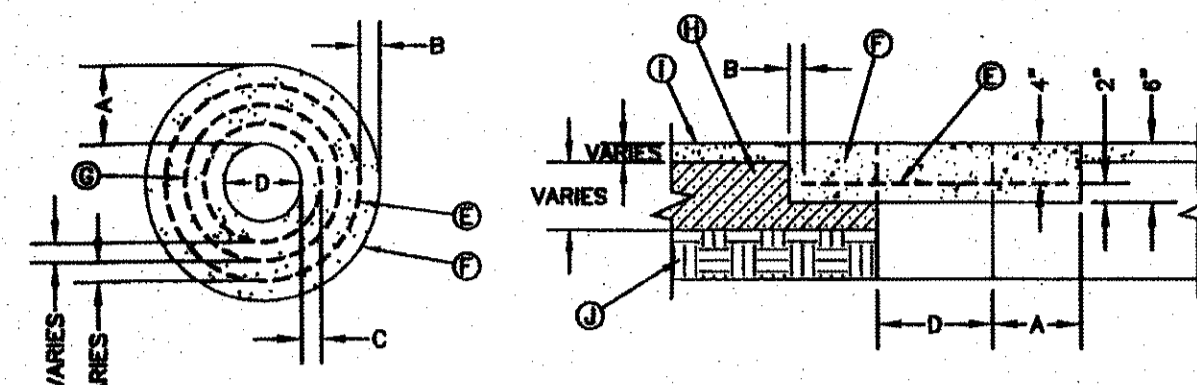
CONSTRUCTION KEY NOTES:
 A. SCHEDULE 40 THREADED STEEL COUPLING.
 B. 2 - No. 4 REBAR CONTINUOUS, EACH WAY.
 C. MINIMUM 3500 PSI CONCRETE 2'x2' SQUARE COLLAR.
 D. 12\"/>

STANDARD DETAIL DATE: 8/21/2006 REV: BREAK-A-WAY COUPLING N.T.S. PUBLIC SERVICE BOARD DETAIL No. 383-5



PLAN VIEW - SINGLE REBAR

PLAN VIEW - TWO REBARS



PLAN VIEW - THREE REBARS

SECTION VIEW - ASPHALT JUNCTURE

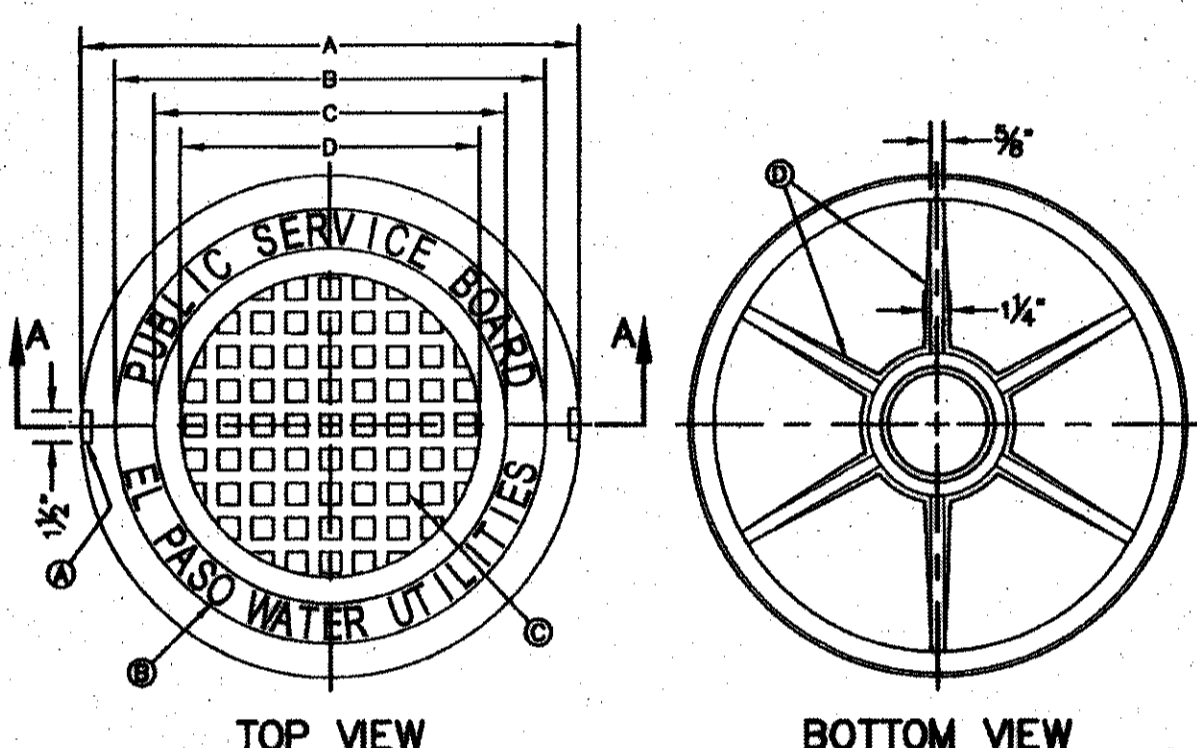
| "D" DIAMETER OF PENETRATION | NUMBER OF #3 REINFORCING STEEL BARS | "A" MINIMUM CONCRETE HORIZONTAL DIMENSION FROM PENETRATION | "B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE COLLAR TO CENTER OF NEAREST REBAR | "C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR |
|-----------------------------|-------------------------------------|--|---|--|
| 0" TO 6" | 1 | 6" | 1 1/2" | 4 1/2" |
| 6.1" TO 18" | 2 | 6" | 1 1/2" | 1 1/2" |
| 18.1" AND OVER | 3 | 6" | 1 1/2" | 1 1/2" |

GENERAL NOTES:
 1. THE CONCRETE COLLAR SHOULD BE CAST IN-PLACE CONCRETE. (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI. HIGH EARLY CONCRETE IS REQUIRED).
 2. TOPS OF CONCRETE COLLAR SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
 3. ANY DISTURBED SUBGRADE UNDER THE CONCRETE COLLAR SHALL BE COMPACTED TO 98% DENSITY ± 3% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
 4. ANY DISTURBED BASE COARSE UNDER THE CONCRETE COLLAR SHALL BE COMPACTED TO 100% DENSITY ± 2% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
 5. PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL.
 6. REINFORCING SHALL MEET ASTM C-478 AND TRAFFIC LOADING (HS-20).
 7. NO. 3 REINFORCING STEEL HOOPS SHALL BE SPACED EQUALLY.

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

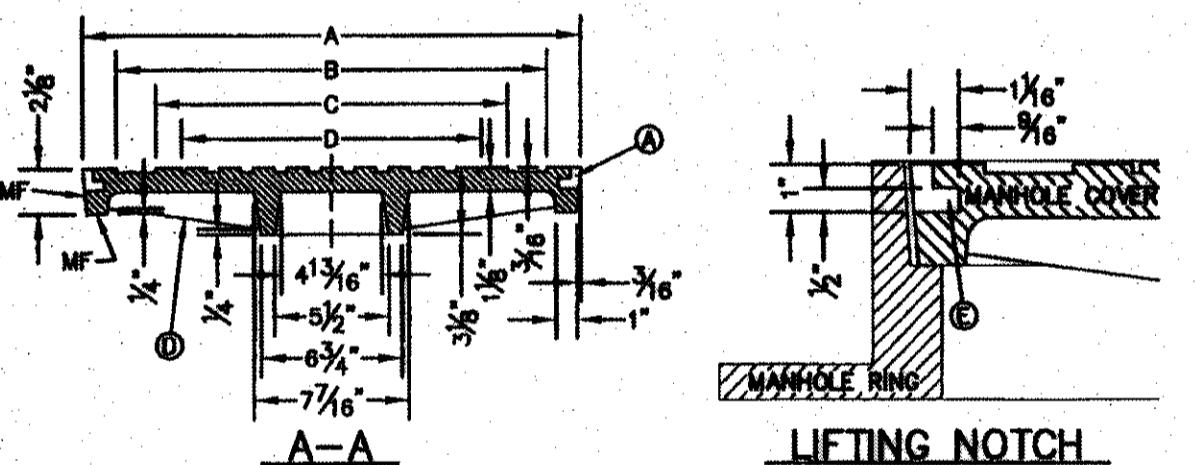
CONSTRUCTION KEY NOTES:
 E. #3 REINFORCING STEEL TYP.
 F. CONCRETE COLLAR.
 G. #3 REINFORCING STEEL EQUALLY SPACED.
 H. COMPACTED BASE COARSE.
 I. PAVEMENT.
 J. COMPACTED SUBGRADE.

STANDARD DETAIL DATE: 8/9/2008 REV: 11/9/2008 CONCRETE COLLAR INSTALLATION IN PAVED AREAS N.T.S. PUBLIC SERVICE BOARD DETAIL No. 184-1



TOP VIEW

BOTTOM VIEW



SECTION A-A

LIFTING NOTCH

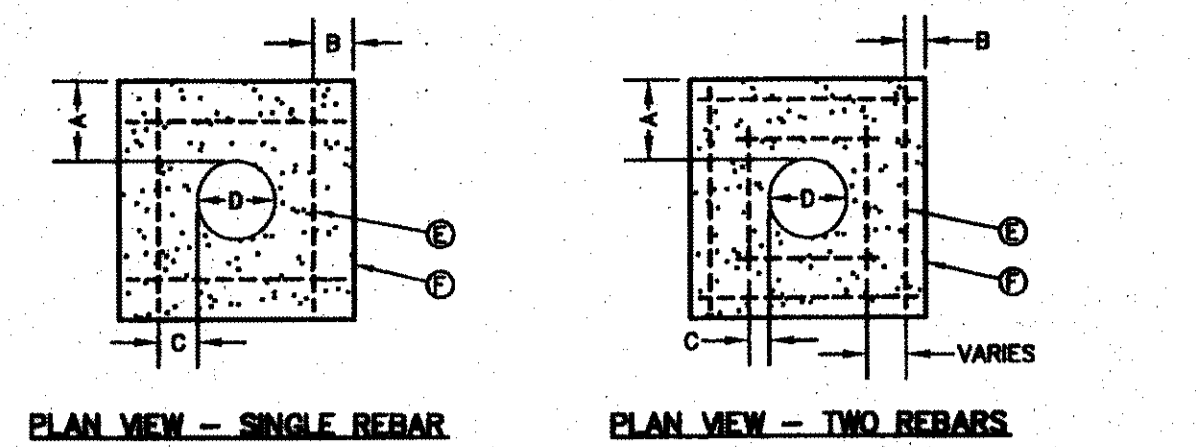
GENERAL NOTES:
 1. MATCHING SURFACES MARKED "MF" TO BE FINISHED TO PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 4. AS-CAST DIMENSIONS MAY VARY 1/8\"/>

CONSTRUCTION KEY NOTES:
 A. LIFTING NOTCH.
 B. 3/8\"/>

| MANHOLE COVER | MANHOLE - ALL TYPES | *MANHOLE TYPE A, A1, A2 & C |
|---------------|---------------------|-----------------------------|
| A | 31 3/8" | 23 3/8" |
| B | 28 1/2" | 20 3/8" |
| C | 24 3/8" | 18 3/8" |
| D | 21 3/8" | 14 3/8" |
| WEIGHT | 200 lbs. | 165 lbs. |

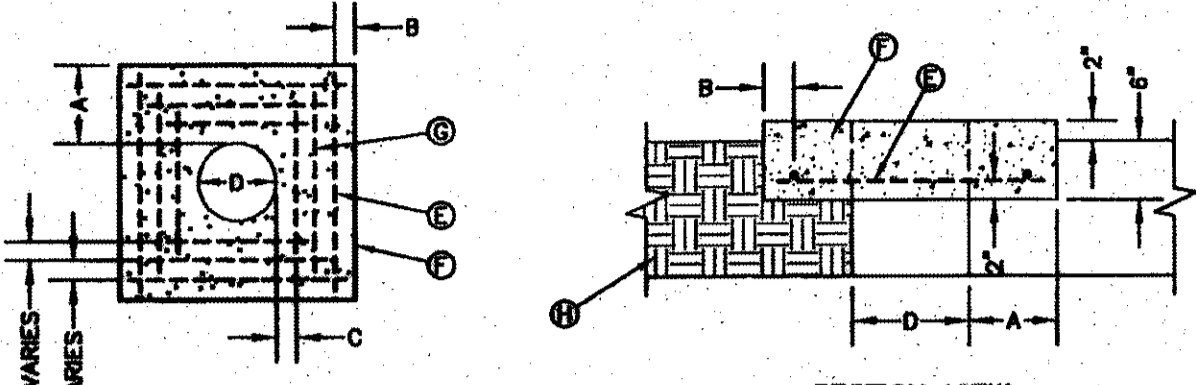
*OBSOLETE - DO NOT USE (FOR REFERENCE ONLY)

STANDARD DETAIL DATE: 11/1992 REV: 2/21/2011 SEWER MANHOLE COVER N.T.S. PUBLIC SERVICE BOARD DETAIL No. 378



PLAN VIEW - SINGLE REBAR

PLAN VIEW - TWO REBARS



PLAN VIEW - THREE REBARS

SECTION VIEW

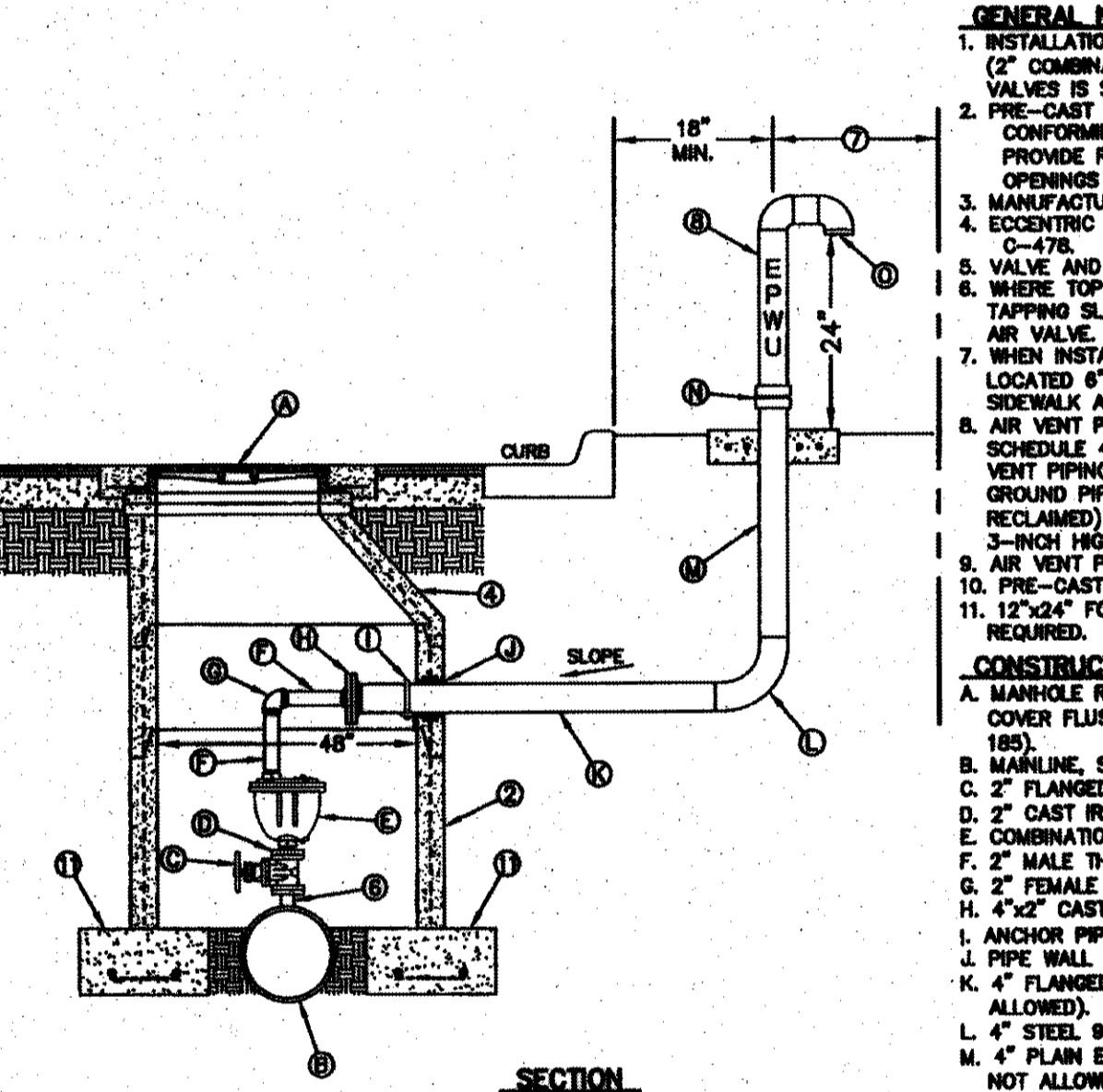
| "D" DIAMETER OF PENETRATION | NUMBER OF #3 REINFORCING STEEL BARS | "A" MINIMUM CONCRETE HORIZONTAL DIMENSION FROM PENETRATION | "B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE APRON TO CENTER OF NEAREST REBAR | "C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR |
|-----------------------------|-------------------------------------|--|--|--|
| 0" TO 6" | 1 | 6" | 1 1/2" | 4 1/2" |
| 6.1" TO 18" | 2 | 6" | 1 1/2" | 1 1/2" |
| 18.1" AND OVER | 3 | 6" | 1 1/2" | 1 1/2" |

GENERAL NOTES:
 1. THE CONCRETE APRON SHOULD BE CAST IN-PLACE CONCRETE. (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI. HIGH EARLY CONCRETE IS REQUIRED).
 2. TOPS OF CONCRETE APRON SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
 3. PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL.
 4. REINFORCING SHALL MEET ASTM C-478 AND TRAFFIC LOADING (HS-20).
 5. NO. 3 REBARS SPACED EQUALLY MAY BE LAP TIED OR SQUARE HOOPS.

CONSTRUCTION KEY NOTES:
 E. #3 REINFORCING STEEL TYP.
 F. CONCRETE APRON.
 G. #3 REINFORCING STEEL EQUALLY SPACED.
 H. COMPACTED BACKFILL.

CONSTRUCTION KEY NOTES:
 E. #3 REINFORCING STEEL TYP.
 F. CONCRETE APRON.
 G. #3 REINFORCING STEEL EQUALLY SPACED.
 H. COMPACTED BACKFILL.

STANDARD DETAIL DATE: 11/9/2008 REV: CONCRETE APRON INSTALLATION IN NON PAVED AREAS N.T.S. PUBLIC SERVICE BOARD DETAIL No. 184-2



GENERAL NOTES:
 1. INSTALLATION SHALL GENERALLY BE FOR A MAIN-LINE 16" AND SMALLER (2" COMBINATION AIR VALVE SHOWN). INSTALLATION OF OTHER SIZED VALVES IS SIMILAR.
 2. PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" OF OPENINGS OR HOLOCUTS. OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
 3. MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
 4. CONCRETE CONE SECTION REINFORCEMENT IN ACCORDANCE WITH ASTM C-478.
 5. VALVE AND PIPE SIZES AS SPECIFIED.
 6. WHERE TOP OUTLET FITTING IS NOT PROVIDED BY MANUFACTURER, PROVIDE TAPPING SLAVE (DRY TAP MAIN LINE) WITH VERTICAL FLANGE TO SIZE OF AIR VALVE.
 7. WHEN INSTALLATION IS WITHIN TYPICAL R.O.W., VENT PIPE SHALL BE LOCATED 6" FROM TYPICAL R.O.W. VENT PIPE SHALL NOT BE PLACED IN SIDEWALK AREA.
 8. AIR VENT PIPING (SIZE AS REQUIRED PER COMBINATION AIR VALVE) TO BE SCHEDULE 40 WELDED STEEL WITH FORGED STEEL WELD FITTINGS. BURED VENT PIPING SHALL HAVE 2 COATS OF EPOXY POLYAMIDE COATING. ABOVE GROUND PIPING TO BE PRIMED AND PAINTED BLUE (PURPLE FOR RECLAIMED) WITH A SEMI-GLOSS ENAMEL AND LABELED "EPWV" WITH 3"-HIGH WHITE LETTERS.
 9. AIR VENT PIPING SHALL BE LOCATED CLEAR OF PAVED ROADWAY.
 10. PRE-CAST MANHOLE SHALL NOT REST ON PIPE.
 11. 12"x24" FOOTING WITH No.5 REBAR AT 12" ON CENTER EACH WAY IS REQUIRED.

CONSTRUCTION KEY NOTES:
 A. MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
 B. MAINLINE SIZE AS SPECIFIED.
 C. 2" FLANGED GATE VALVE.
 D. 2" CAST IRON COMPANION FLANGE.
 E. COMBINATION AIR VALVE, SIZE AS SPECIFIED.
 F. 1" MALE THREADED BRASS NIPPLE.
 G. 2" FEMALE THREADED BRONZE 90° ELBOW.
 H. 4"x2" CAST IRON REDUCING COMPANION FLANGE.
 I. ANCHOR PIPING TO VALVE WALL WITH 3/8"x1/2" ANGLE & 3/8" STRAP.
 J. PIPE WALL SLEEVE (LAWN SEAL OR EQUAL).
 K. 4" FLANGED BY PLAN END SCHEDULE 40 STEEL PIPE (GALVANIZED NOT ALLOWED).
 L. 4" STEEL 90° BEND WELDED.
 M. 4" PLAN END BY THREADED MALE SCHEDULE 40 STEEL PIPE (GALVANIZED NOT ALLOWED).
 N. BREAK-A-WAY COUPLING, SEE DET 263-5.
 O. INSET SCREWS.

STANDARD DETAIL DATE: 4/1994 REV: 9/22/2010 COMBINATION AIR RELEASE VALVE FOR LINES 16" AND SMALLER BENEATH PAVING INSTALLATION N.T.S. PUBLIC SERVICE BOARD DETAIL No. 263-2

Jul 18, 2012 - 11:02am mgm:z C:\Drawings\1\CD\BORDER\Desert Springs\desert_springs.dwg



Jeromina L. Castillo
7-18-12

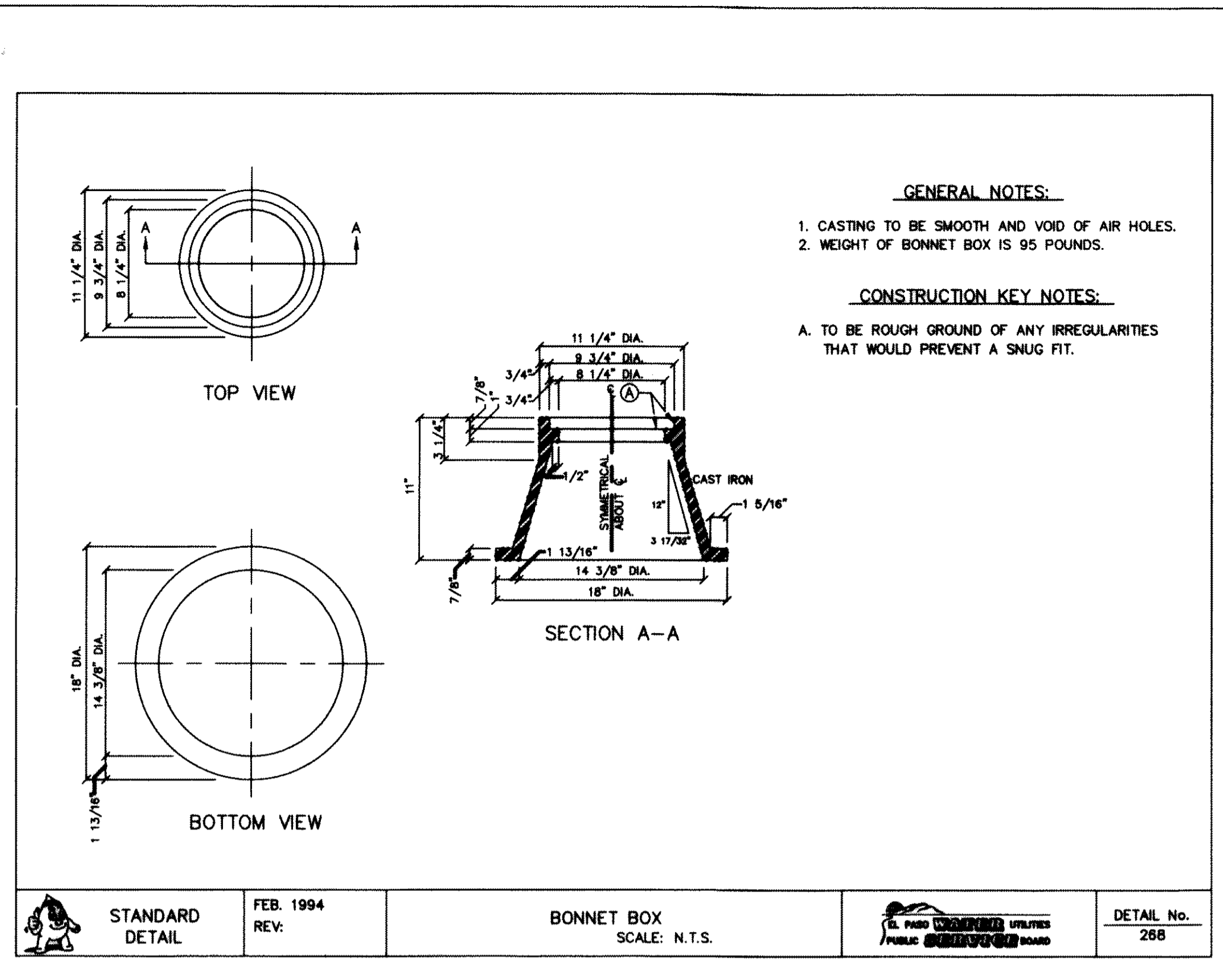
| REVISIONS | DATE | REVISED BY |
|-----------|------|------------|
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FINAL PRINT 07/18/2012

EL PASO WATER UTILITIES
PUBLIC SERVICE BOARD
DESERT SPRINGS UNIT 01
WATER DISTRIBUTION SYSTEM

| | | | |
|------------|-------------|---------|------------|
| SCALE | DRAWN BY | JOB NO. | DATE |
| | M.G. | XX-XXXX | 06/23/2012 |
| CHECKED BY | DESIGNED BY | | |
| FL | ALC. | | |

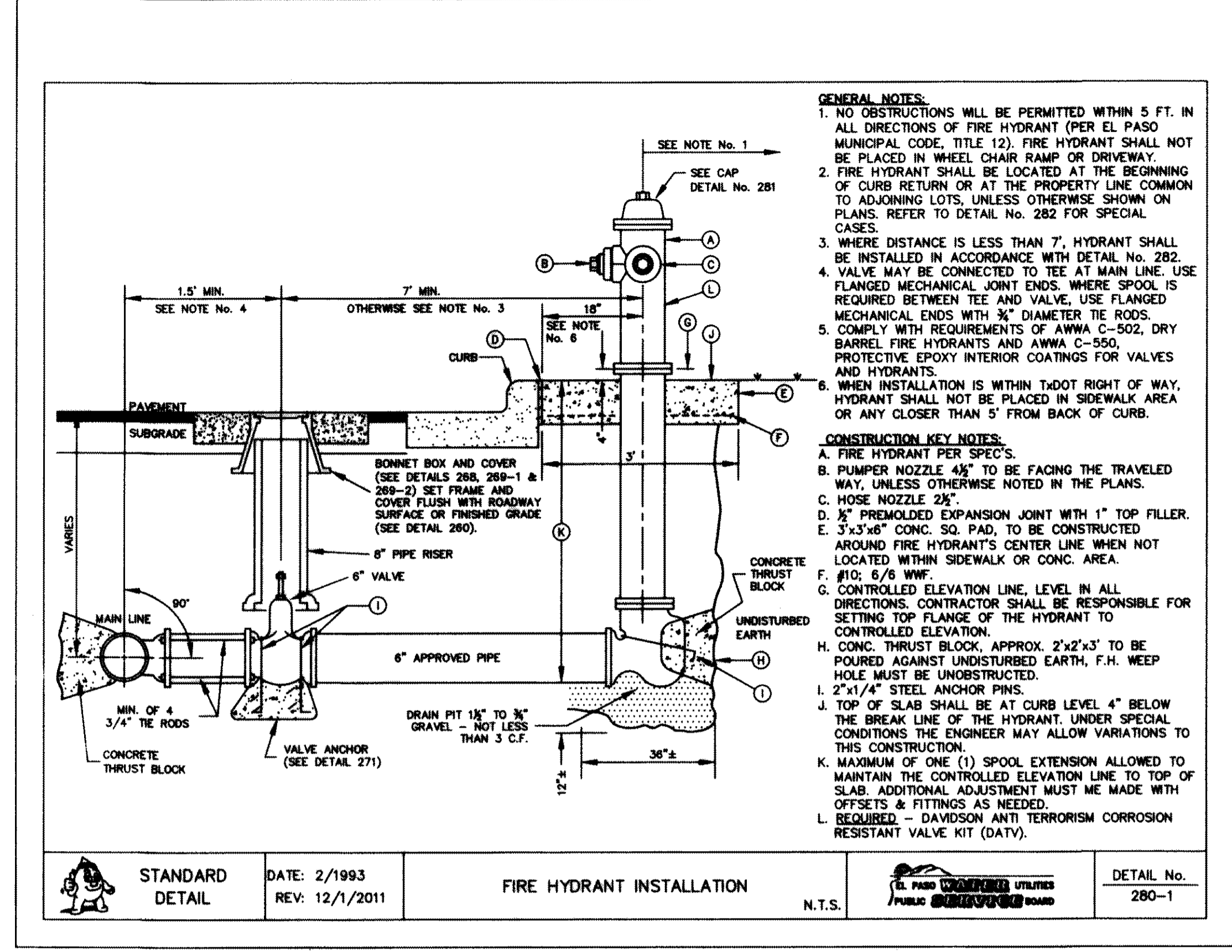
SHEET 2 OF 2



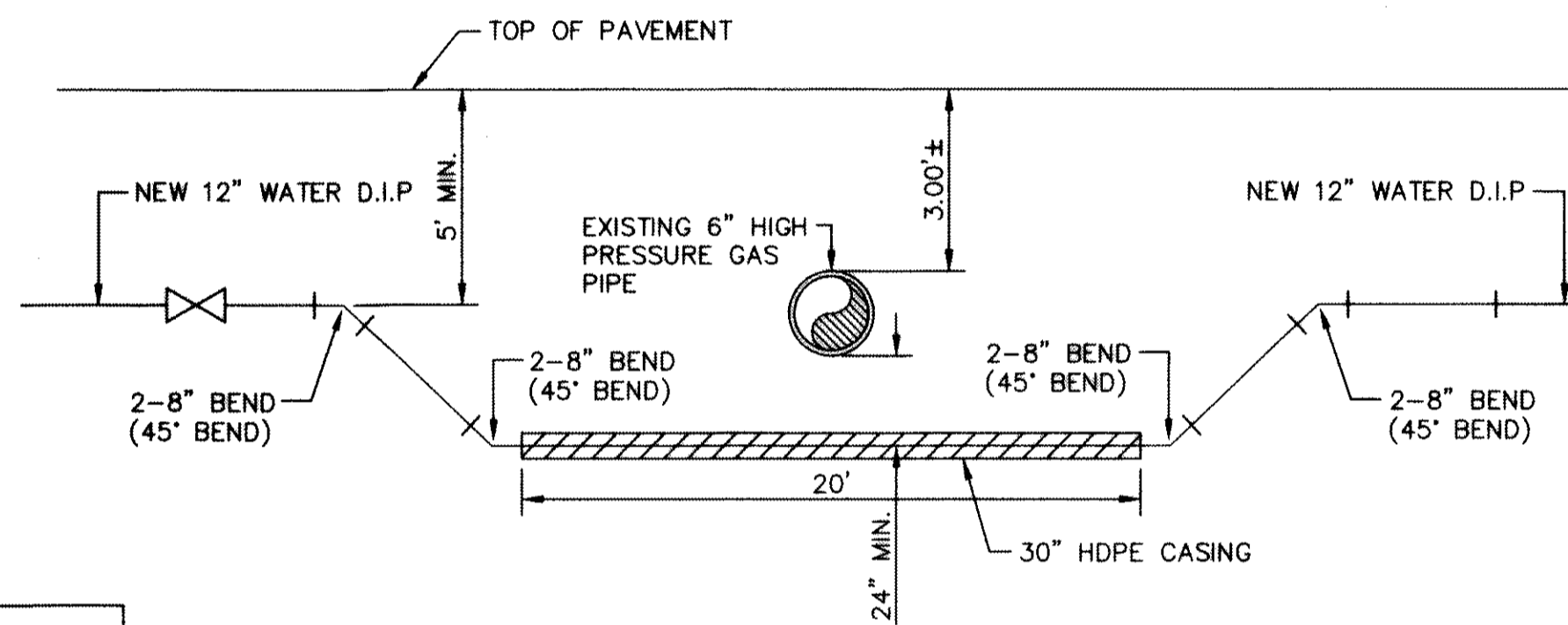
RECORD DRAWINGS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

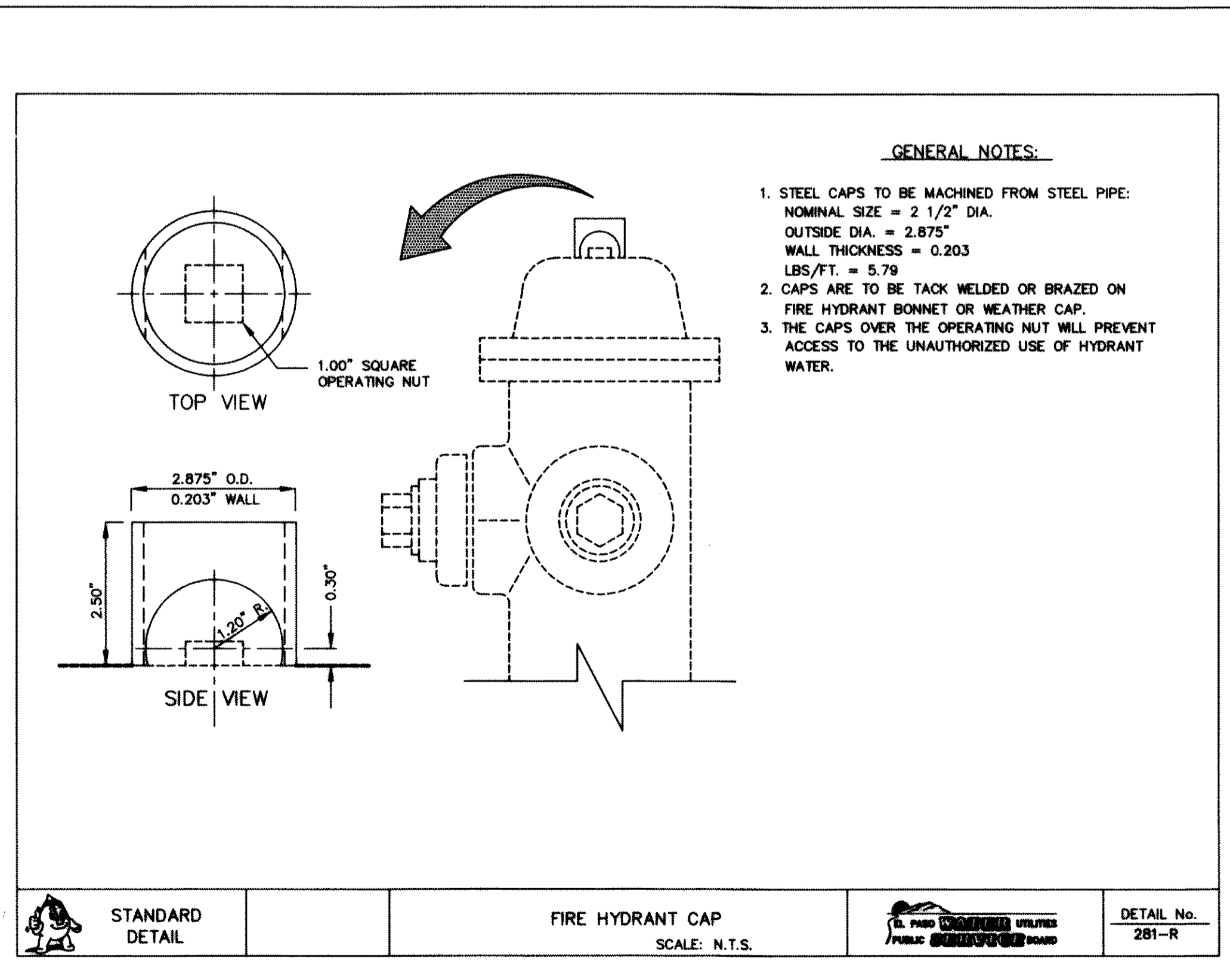
10/24/2013



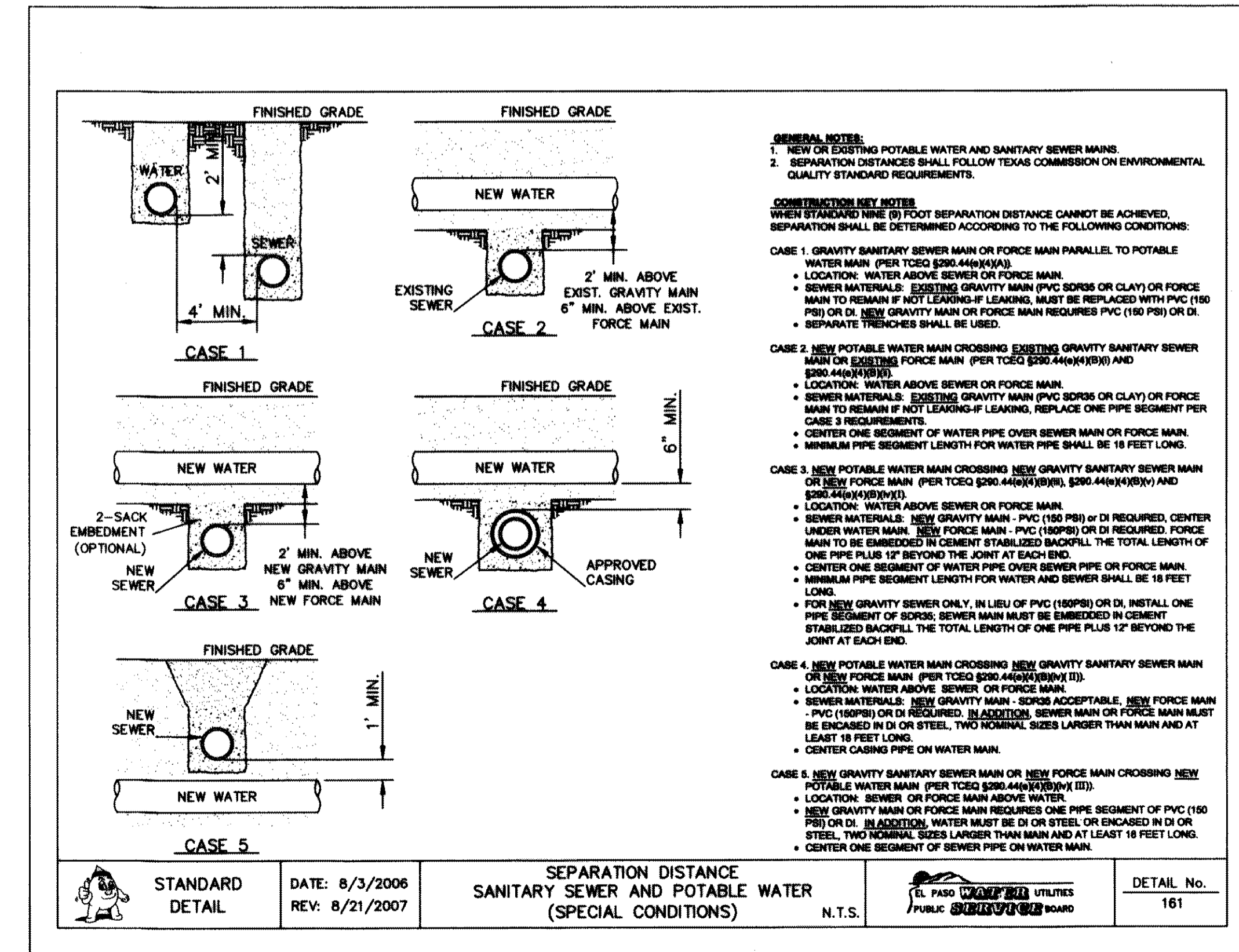
1 BONNET BOX
SCALE: N.T.S.



5 WATER LINE UNDER EXISTING GAS LINE CROSSING DETAIL
SCALE: N.T.S.



3 FIRE HYDRANT CAP
SCALE: N.T.S.



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

REFERENCES - BENCHMARKS

FOUND A.G.S. SURVEY MARKER STAMPED "CHIND 1980"

ELEVATION: 3946.11 (NAVD 88 DATUM)

3945.78 (NGVD 29 DATUM)

3945.78 (NGVD 29 DATUM) EASE 3,000 AS FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

DATE: _____

REVISIONS: _____ BY: _____

cea

C E A

engineers • architects • planners

Castaner Center @ Transmountain
4712 Woodrow Bann, Ste. F, El Paso, TX 79924
Office: 915.844.5522 Fax: 915.844.5523 www.ceagroup.net
TXS&S P&E REGISTRATION NO. 1658

11/14/13

ENGINEER'S SEAL

SCALE: N/A

Horizontal: N/A

Vertical: N/A

Contour Interval: N/A

DATE: JUNE 2012

DESIGN BY: A.H.

DRAWN BY: J.M.

APP'D. BY: J.A.

JOB No. 2050-013-LD.

DESERT SPRINGS UNIT ONE

PHASE I

SUBDIVISION IMPROVEMENTS

PROJECT TITLE

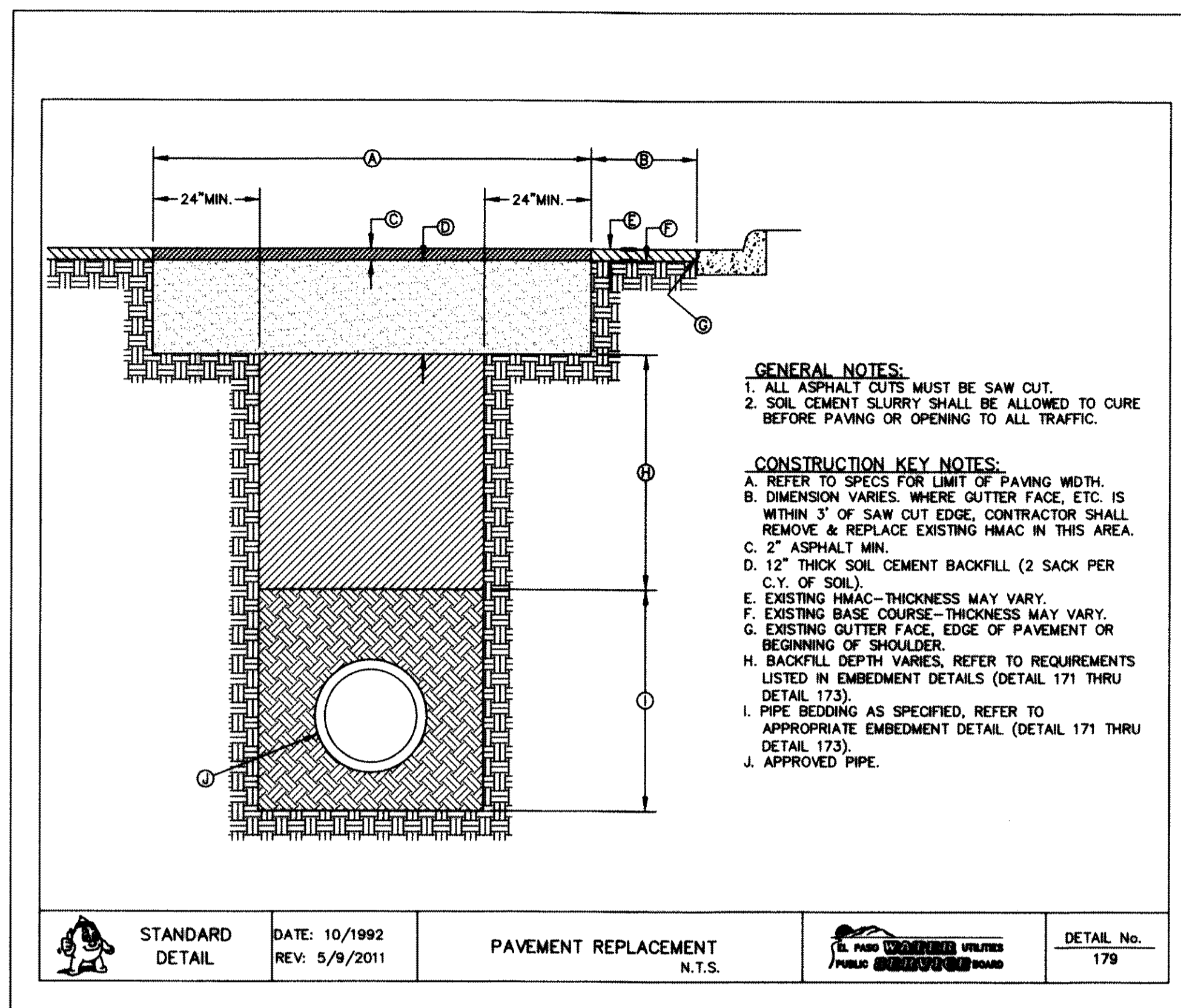
SHEET TITLE

WATER DETAILS

(SHEET 2 OF 5)

SHEET NO.

C16.2

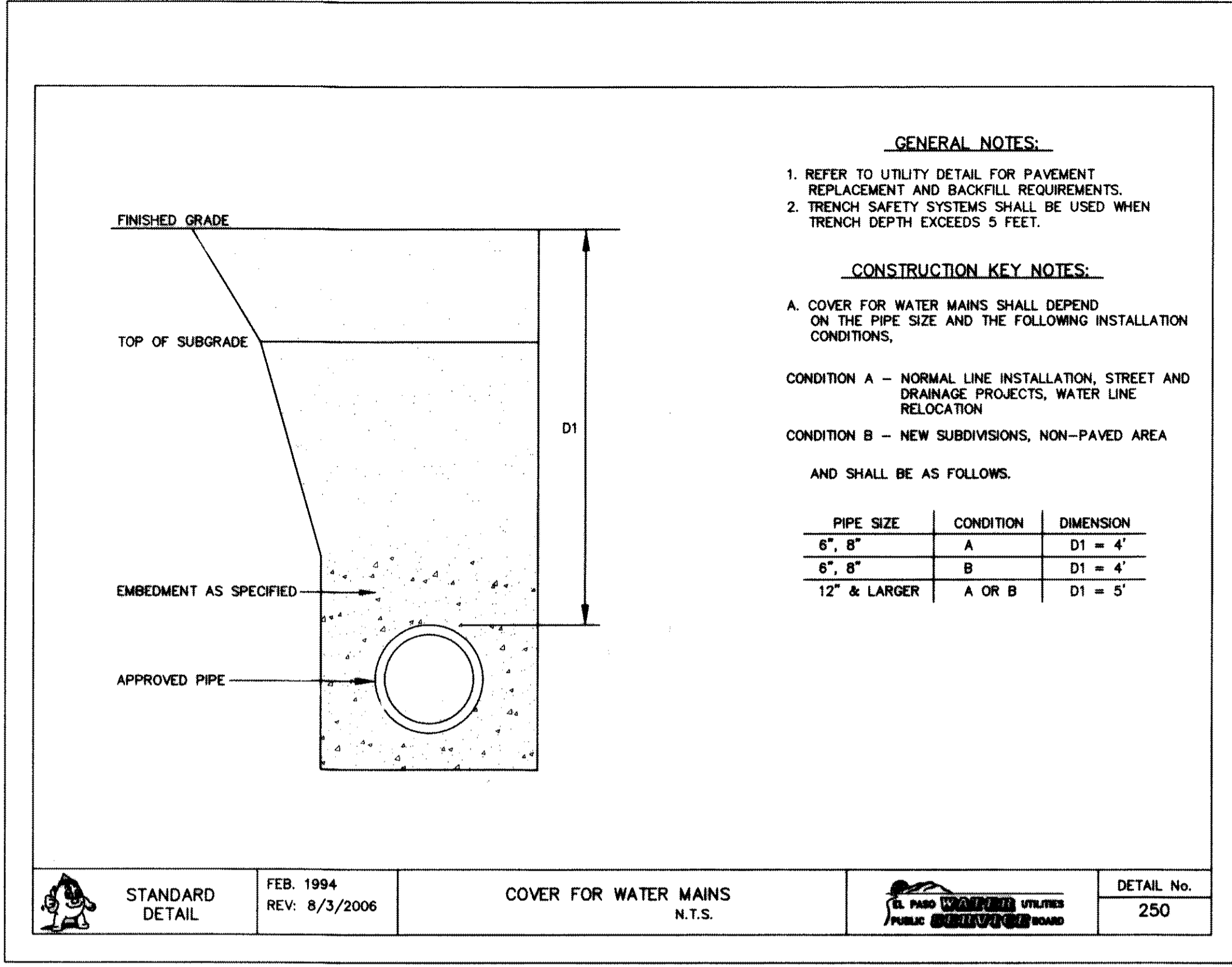


1 PAVEMENT REPAIR DETAIL
SCALE: N.T.S.

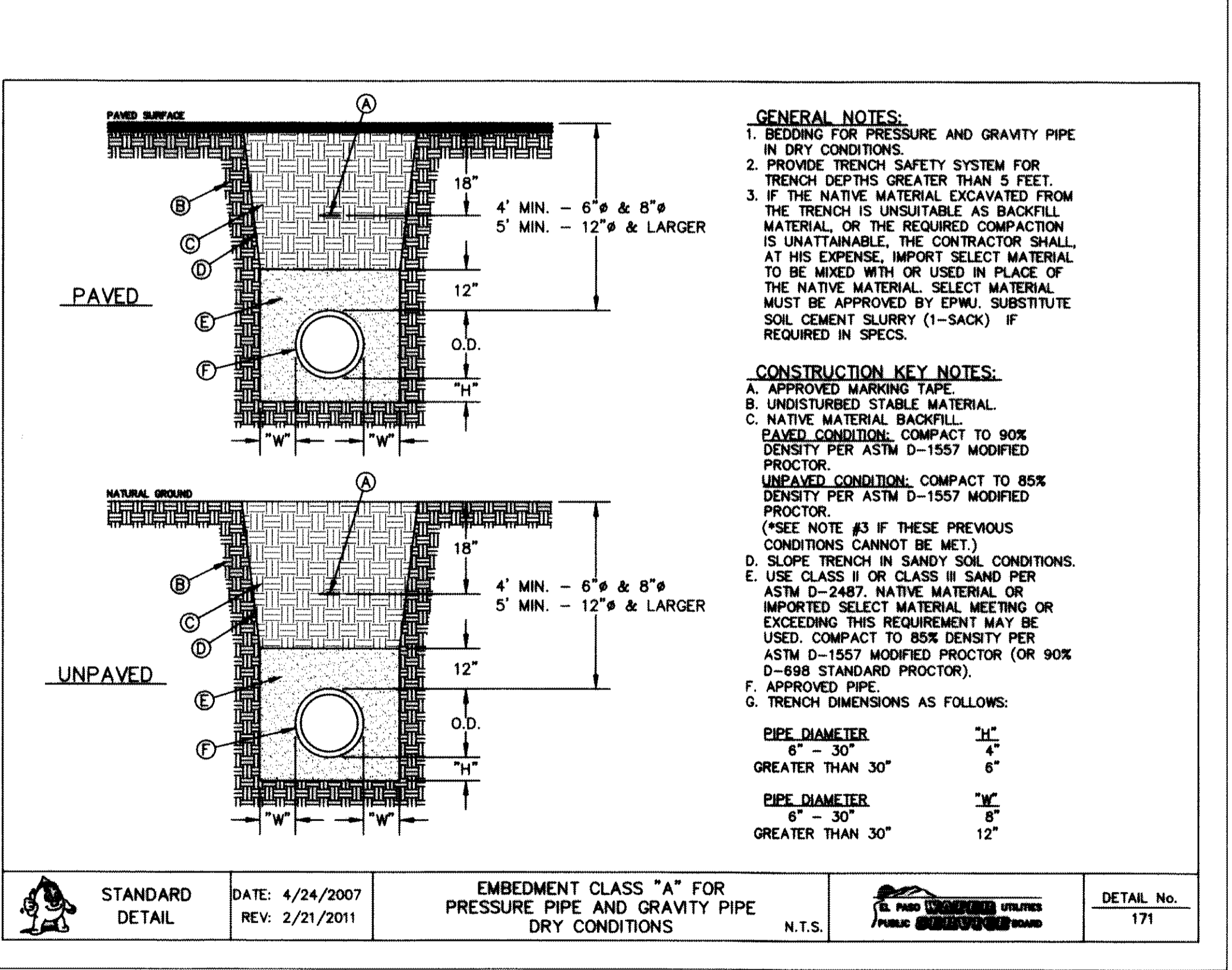
RECORD DRAWINGS

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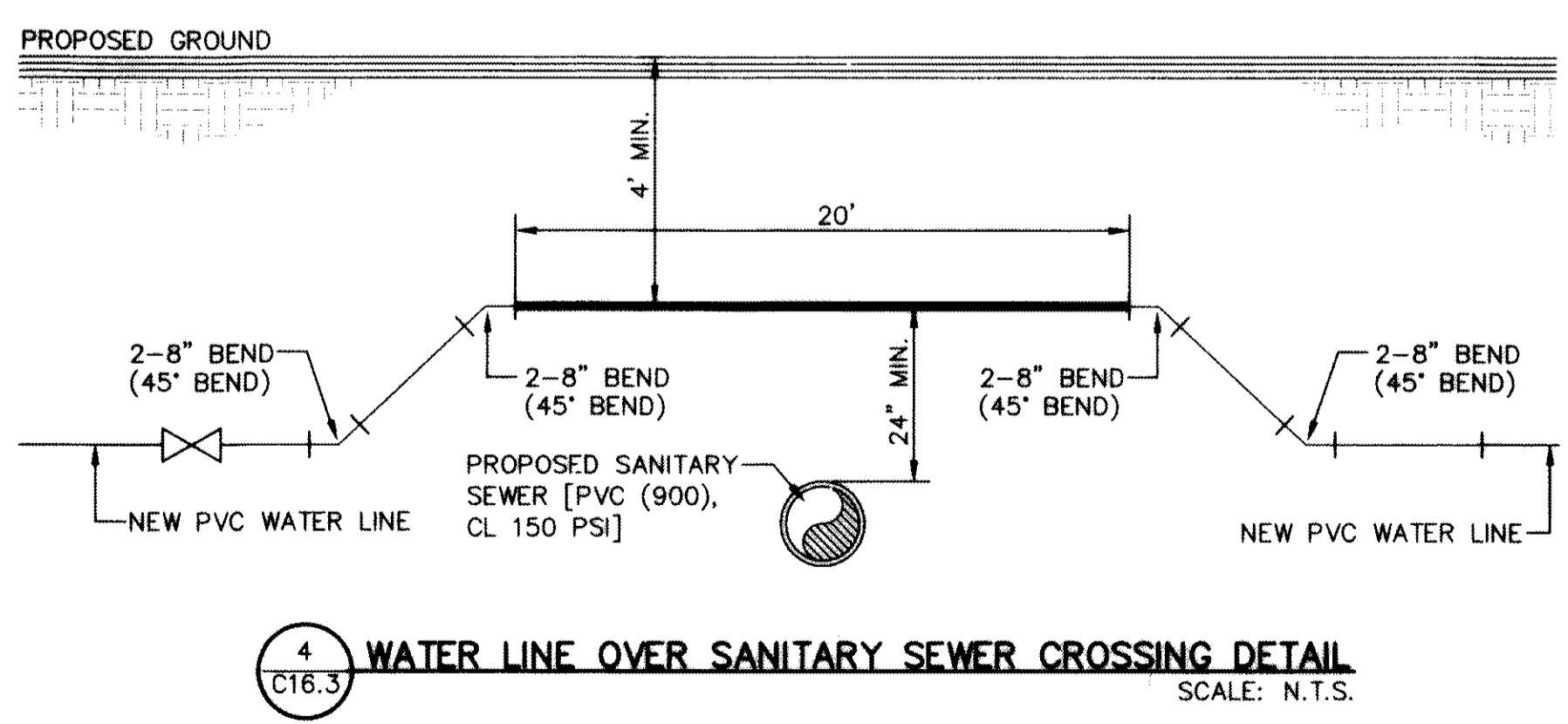
10/24/2013



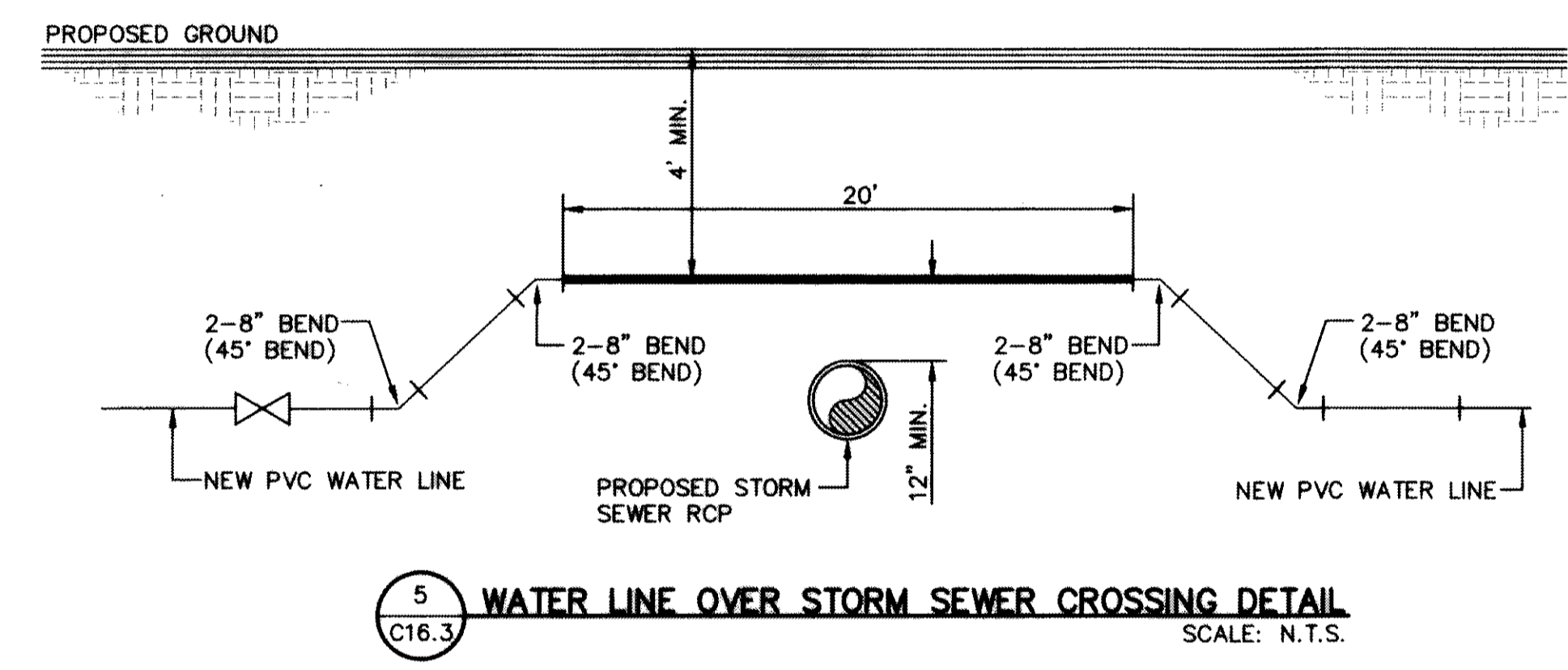
2 STANDARD COVER FOR WATER MAINS
SCALE: N.T.S.



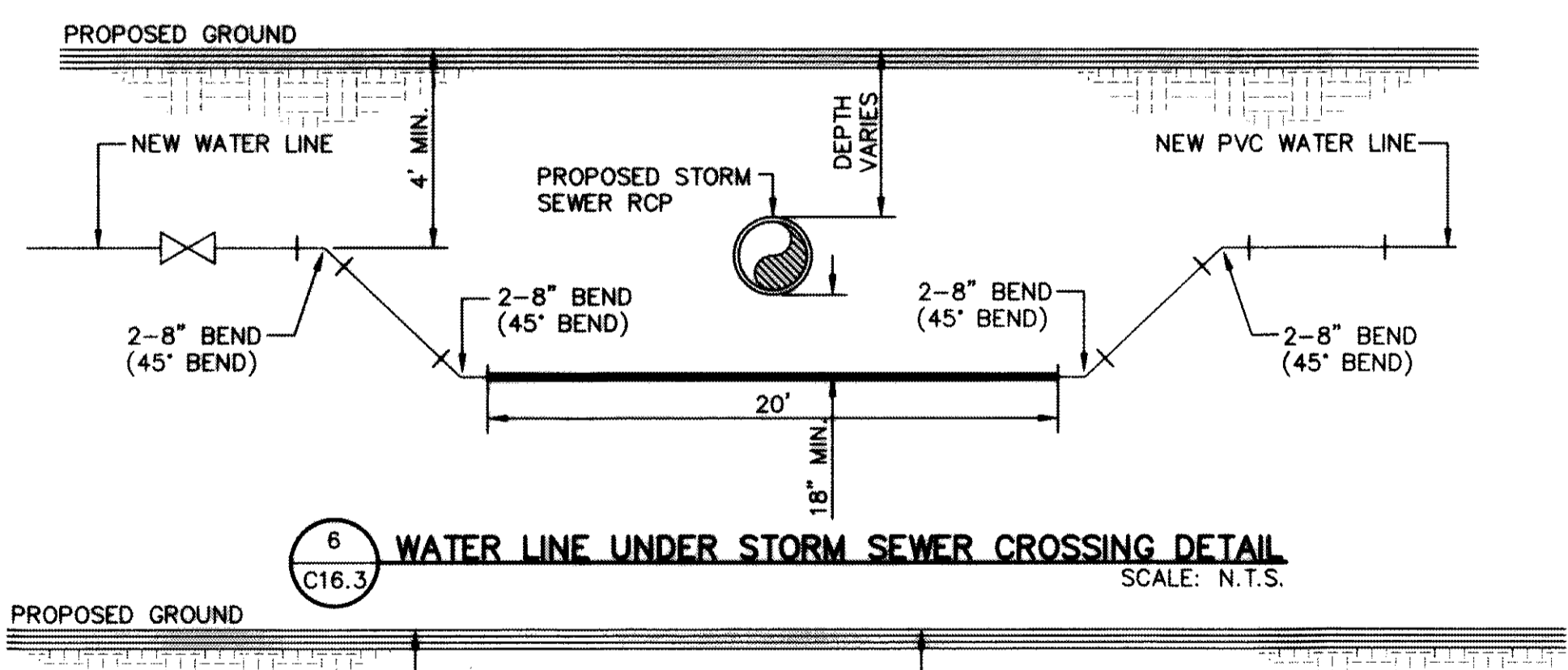
3 BEDDING CLASS DETAILS FOR P.V.C. PRESSURE PIPE
SCALE: N.T.S.



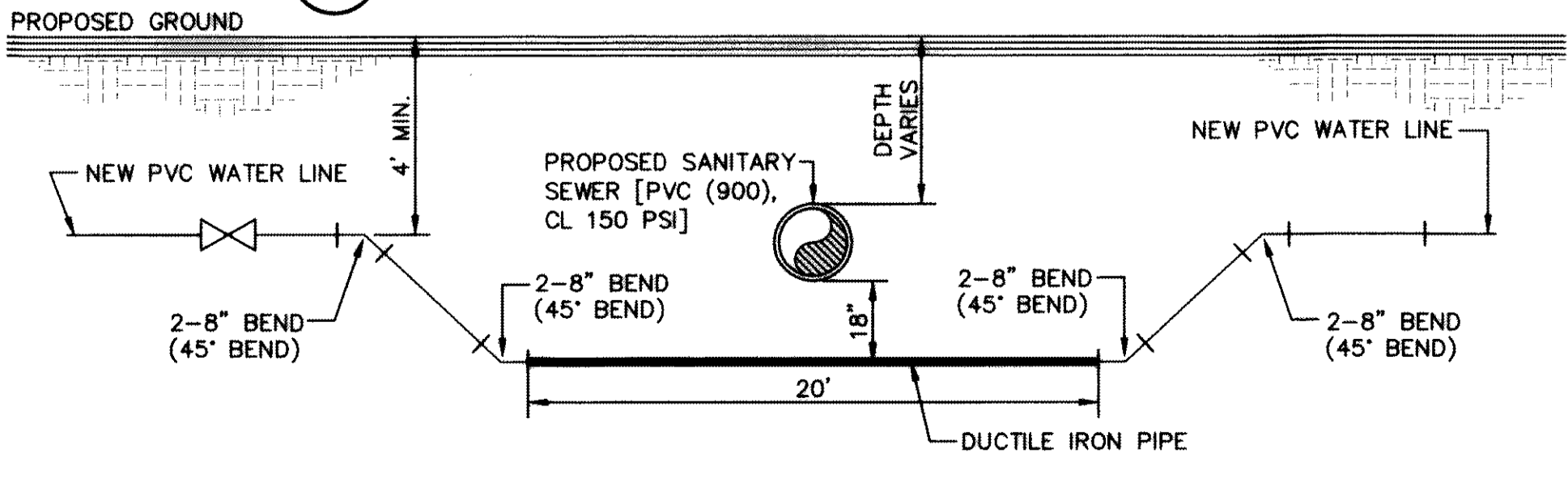
4 WATER LINE OVER SANITARY SEWER CROSSING DETAIL
SCALE: N.T.S.



5 WATER LINE OVER STORM SEWER CROSSING DETAIL
SCALE: N.T.S.



6 WATER LINE UNDER STORM SEWER CROSSING DETAIL
SCALE: N.T.S.



7 WATER LINE UNDER SANITARY SEWER CROSSING DETAIL
SCALE: N.T.S.

REFERENCES - BENCHMARKS

FOUND N.G.S. SURVEY MARKER STAMPED "ORND 1960"
 3946.11 (NAD 88 DATUM)
 3946.78 (NAD 29 DATUM)
 BE TO THE PROJECT BENCHMARK IS 3005.95 FEET
 CORNER OF TRACT 11, NELLIE D. MURPHY SURVEY No. 239

ENGINEER'S SEAL

CEA GROUP
 engineers • architects • planners
 Eastern Center @ Transmountain
 4712 Woodrow Bean, Ste. F El Paso, TX 79924
 Office: 915.941.0262 Fax: 915.941.0233 www.ceagroup.net
 T2349 PPH REGISTRATION NO. 4681

PROJECT TITLE

**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

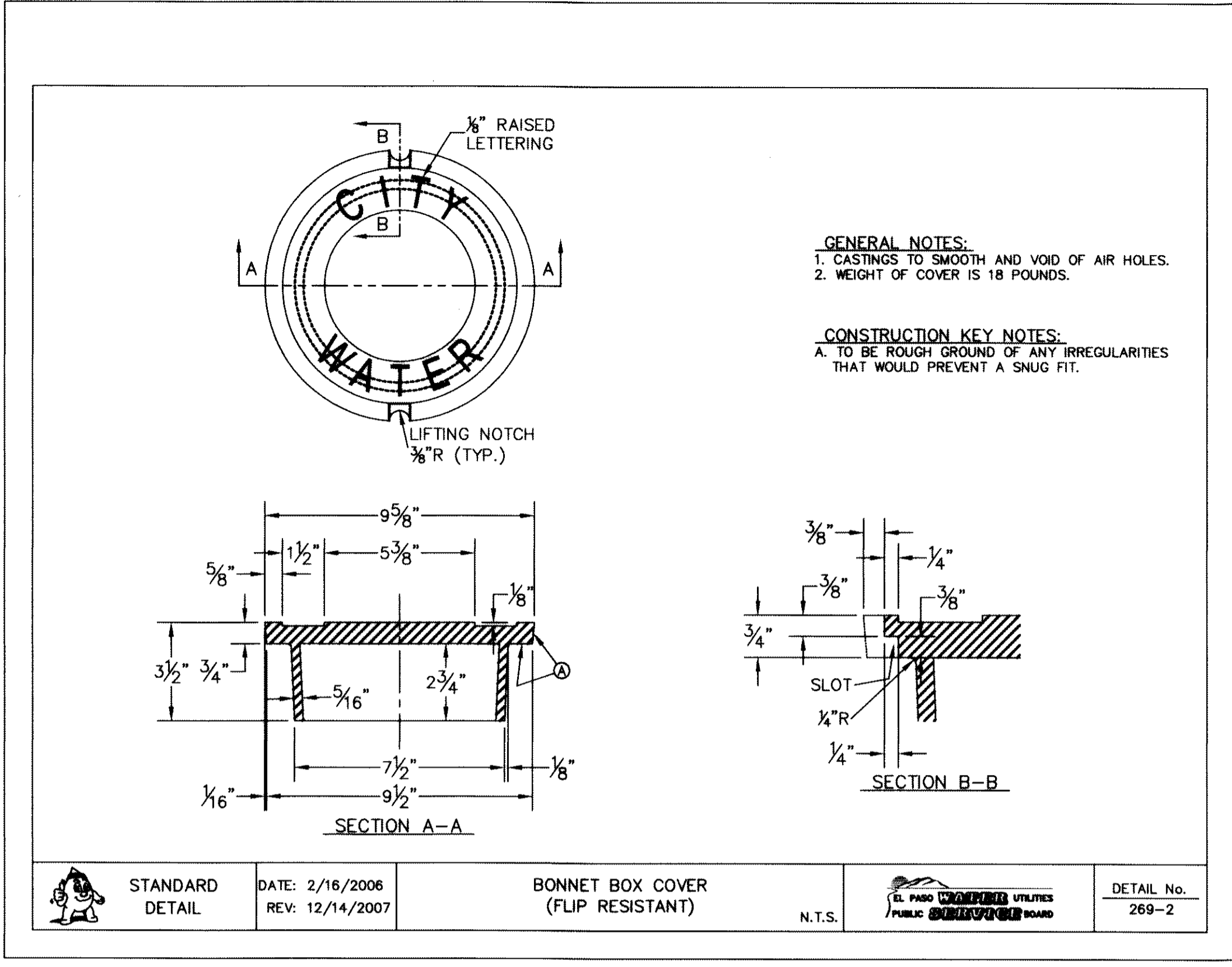
WATER DETAILS

(SHEET 3 OF 5)

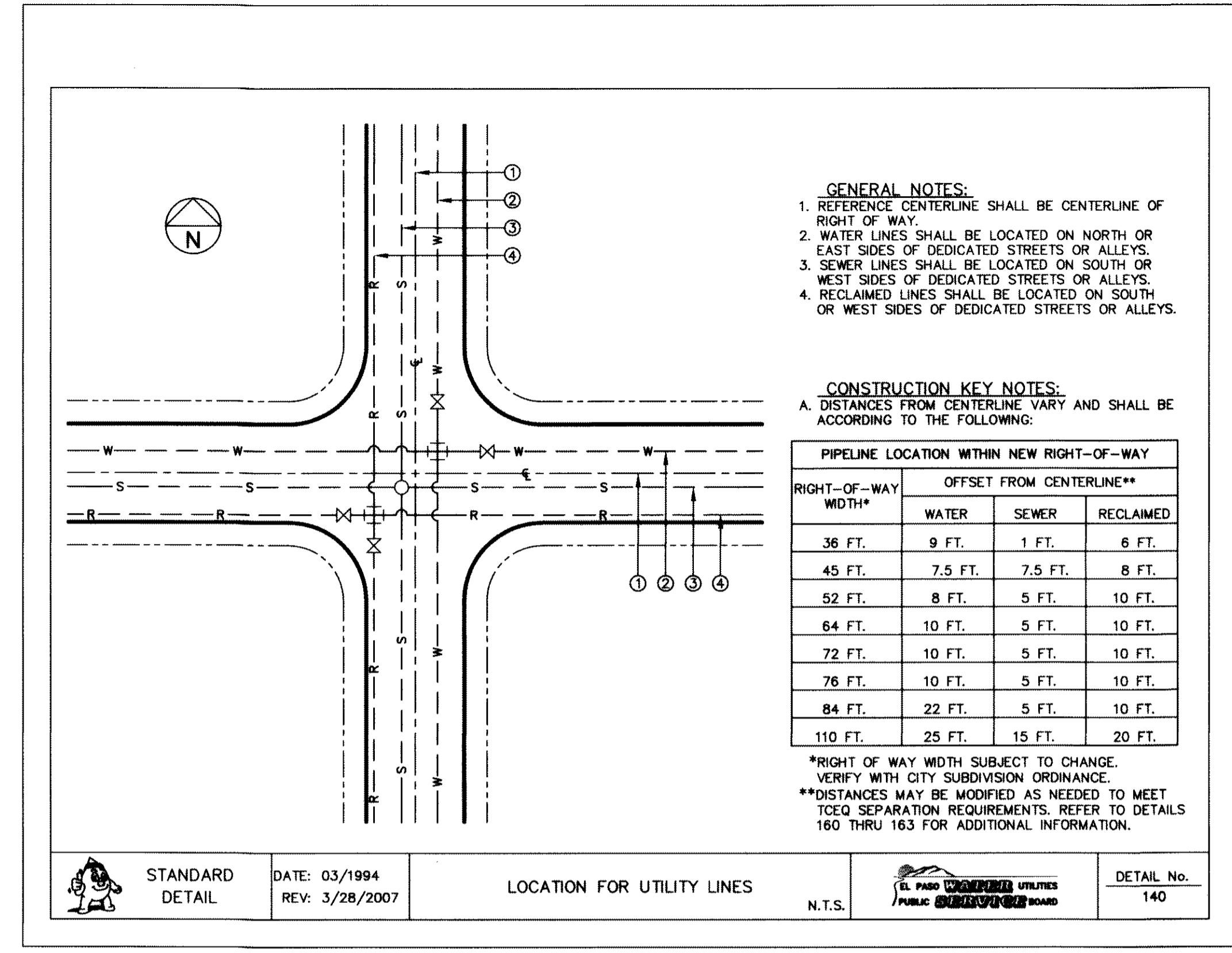
SHEET NO.

C16.3

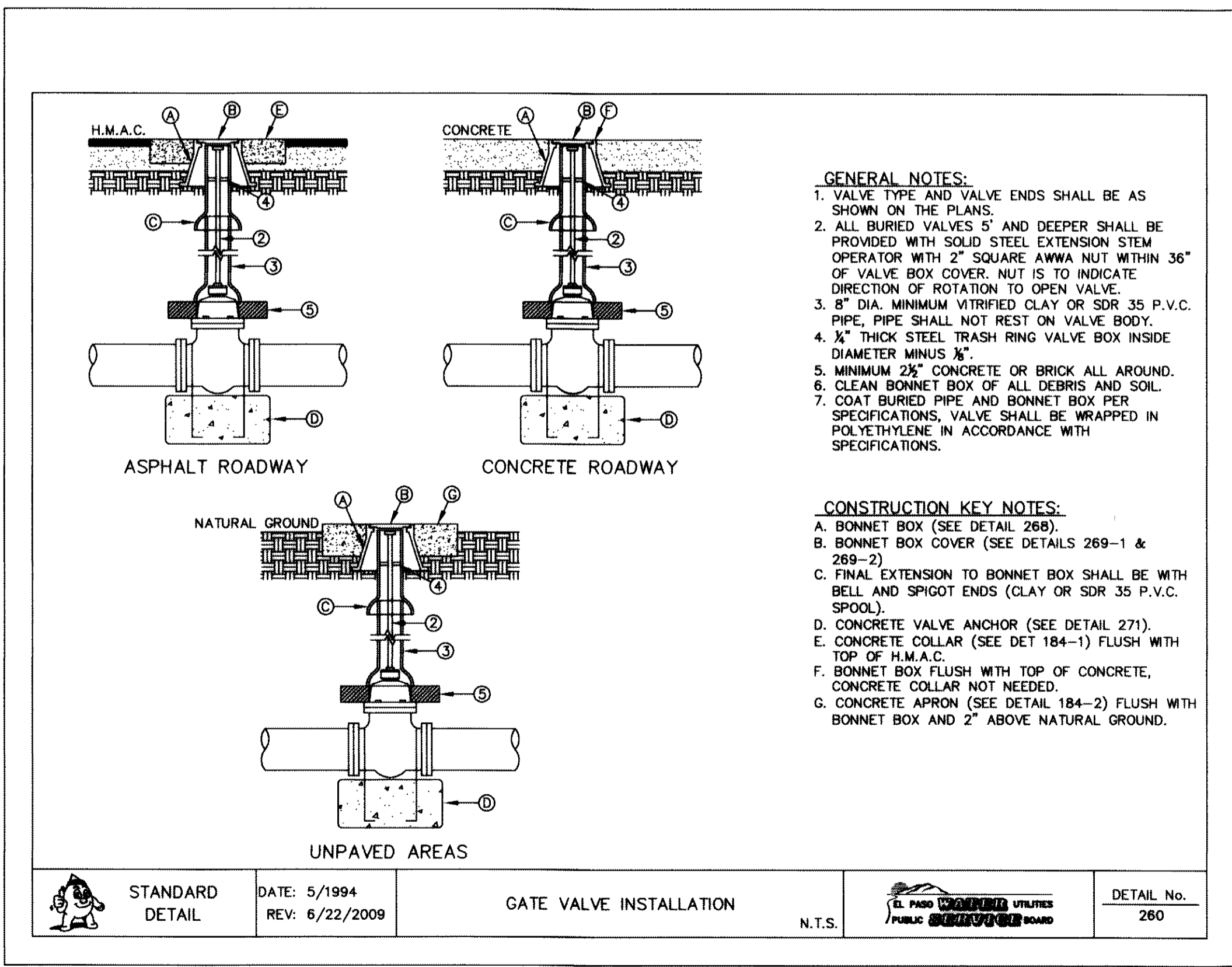
RECORD DRAWINGS
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 10/24/2013



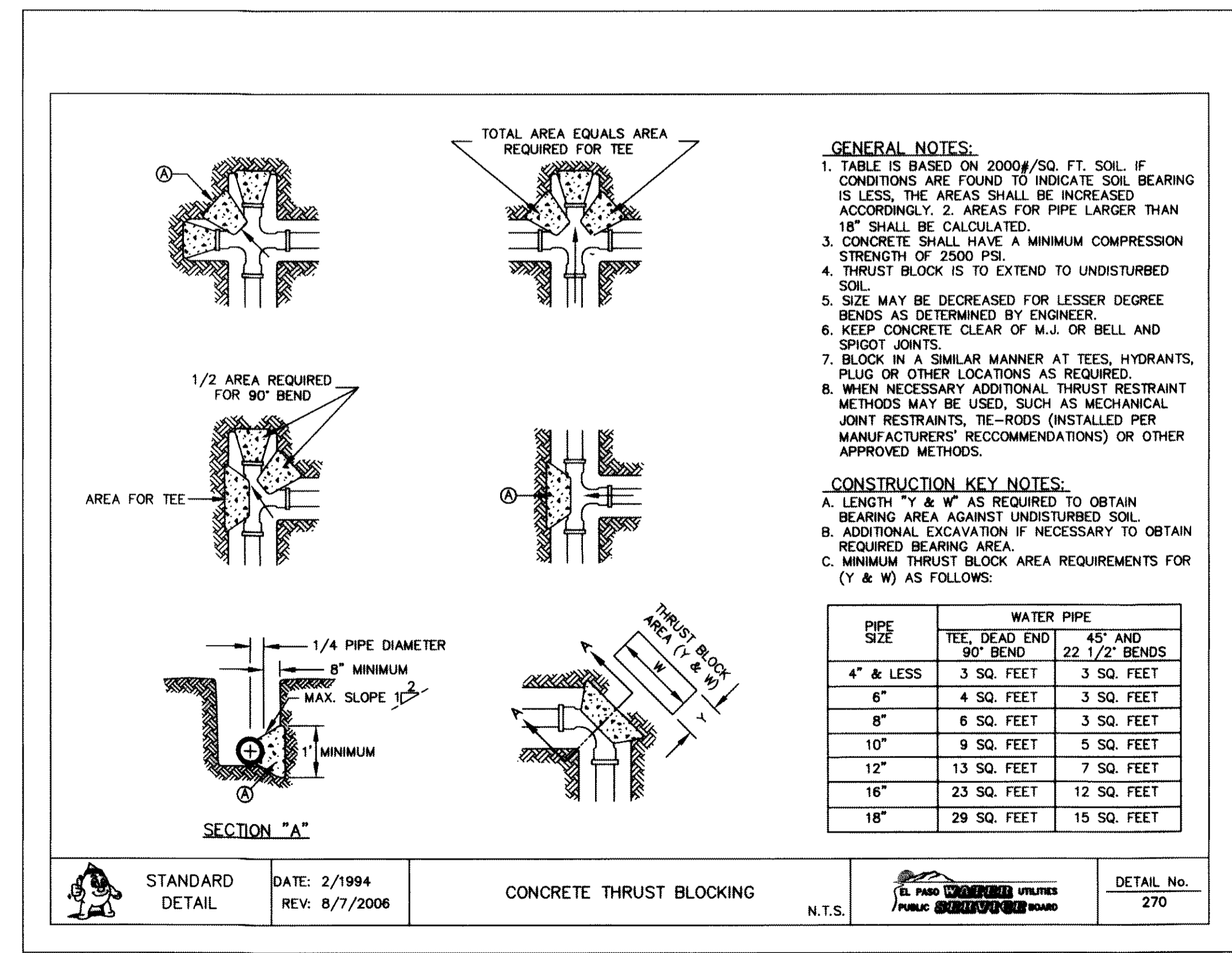
1 **BONNET BOX COVER (FLIP RESISTANT)**
 C16.4 SCALE: N.T.S.



2 **STANDARD LOCATION FOR EXTENSIONS DETAIL**
 C16.4 SCALE: N.T.S.



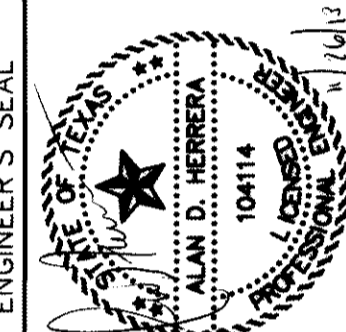
3 **GATE VALVE INSTALLATION**
 C16.4 SCALE: N.T.S.



4 **THRUST BLOCKING**
 C16.4 SCALE: N.T.S.

REFERENCES — BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3946.11 (NAVD 88 DATUM)
 SHOW: 3946.78 (NAVD 88 DATUM), 3946.78 (NAVD 88 DATUM), 3946.78 (NAVD 88 DATUM)
 TIE TO THE PROPOSED CENTERLINE OF THE NORTHWEST CORNER OF TRACT 11, NELLIE D. WINDY SURVEY No. 239
 DATE: _____ REVISIONS: _____ BY: _____

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 engineers • architects • planners
 Castner Center @ Transmountain
 4712 Woodrow Bush, Ste. F El Paso, TX 79924
 (915) 835-0200
 CEAS 115364202
 TEXAS PROFESSIONAL REGISTRATION NO. 498

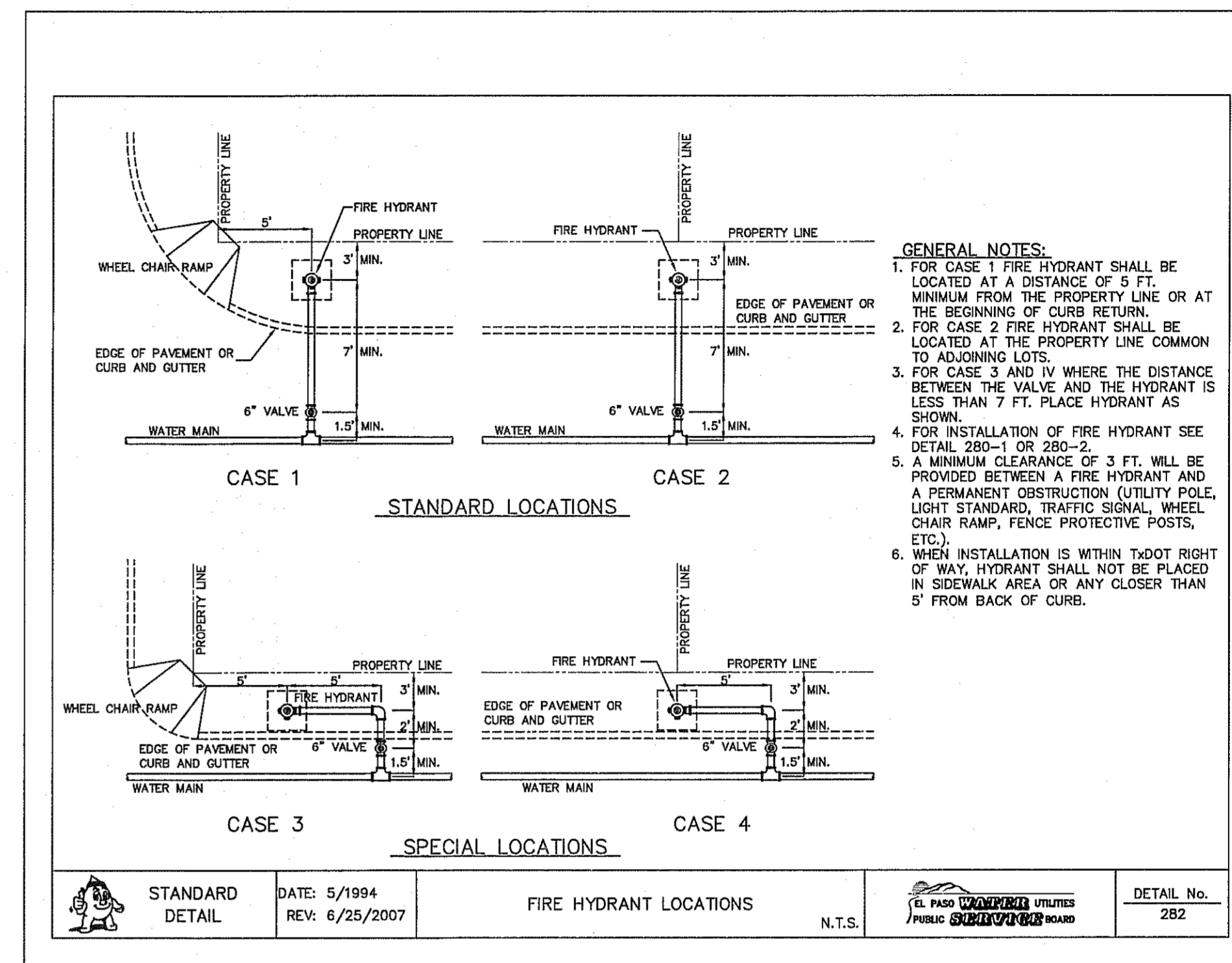
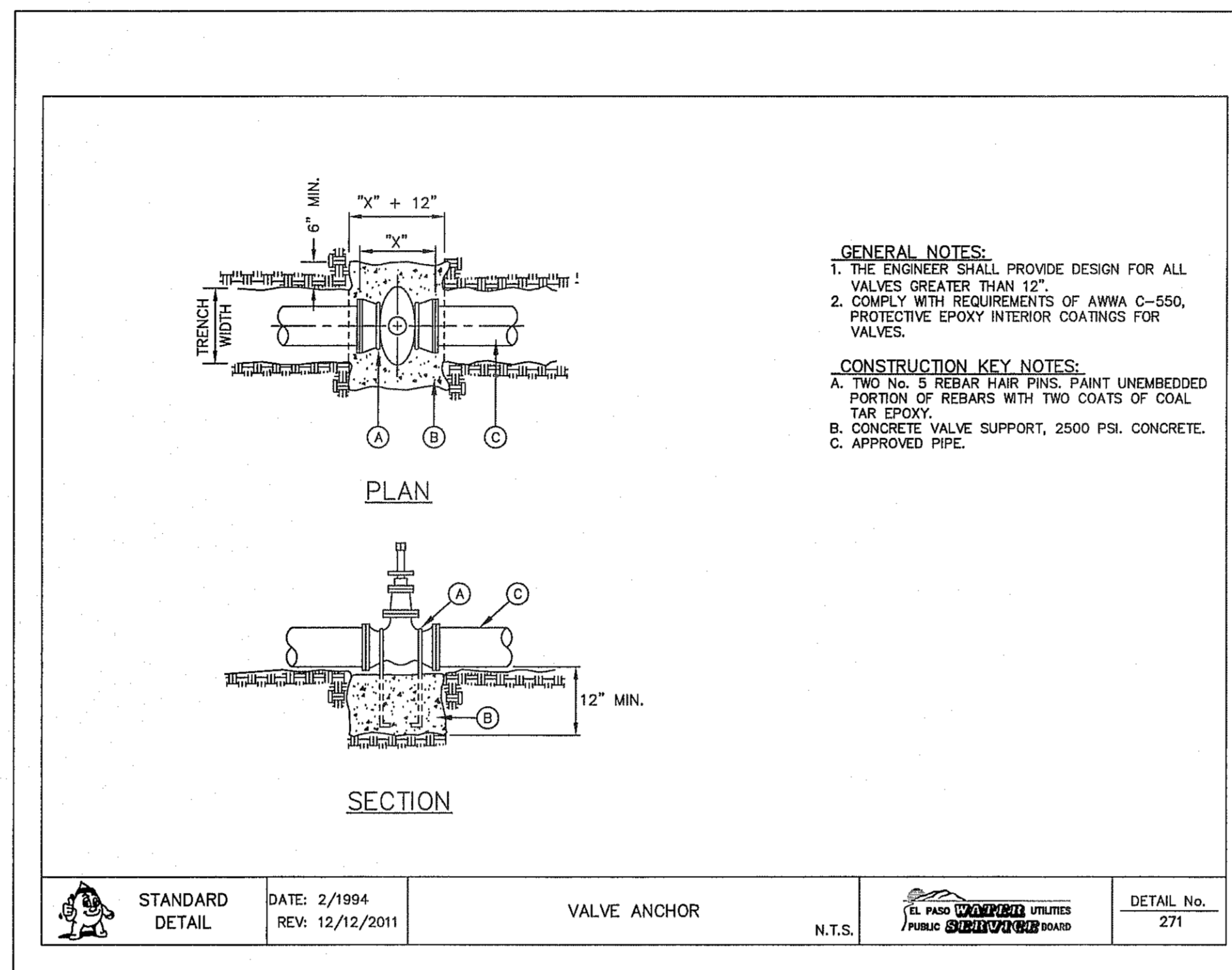
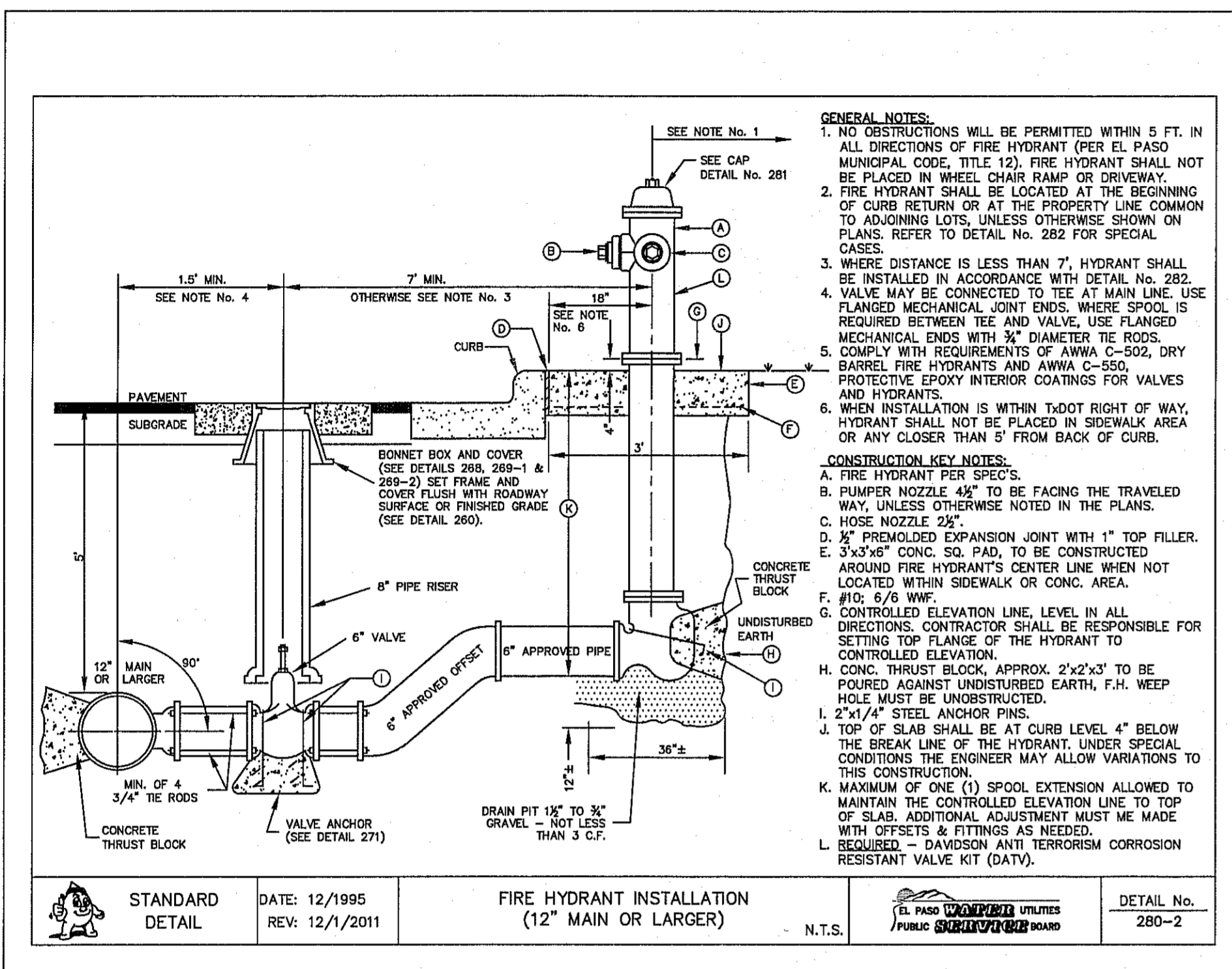


SCALE: N/A
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.L.
 DRAWN BY: J.M.
 CHECKED BY: J.M.
 APP'D BY: A.H.L.
 JOB No. 2050-013-LD

**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
WATER DETAILS
 (SHEET 4 OF 5)
 SHEET NO.

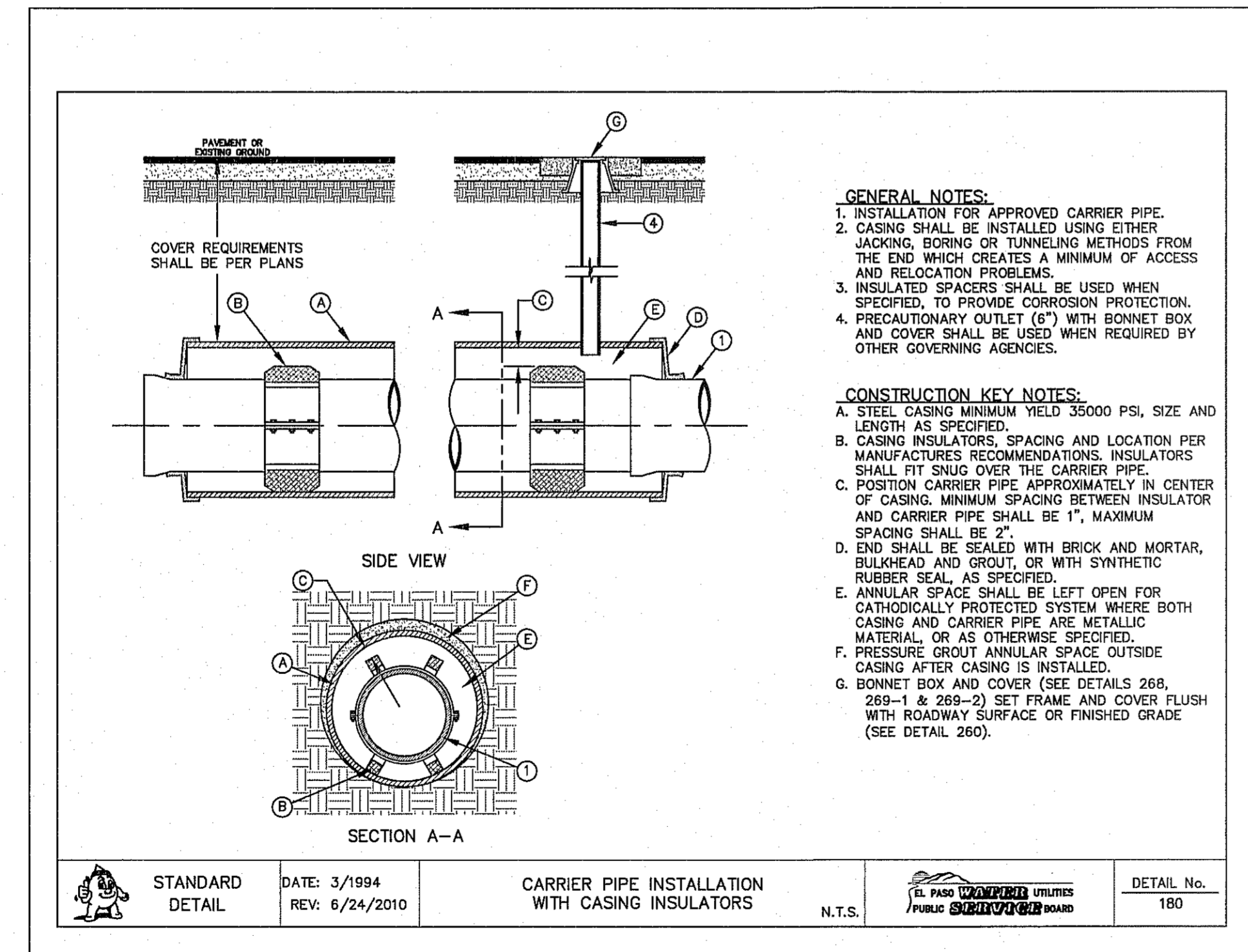
C16.4



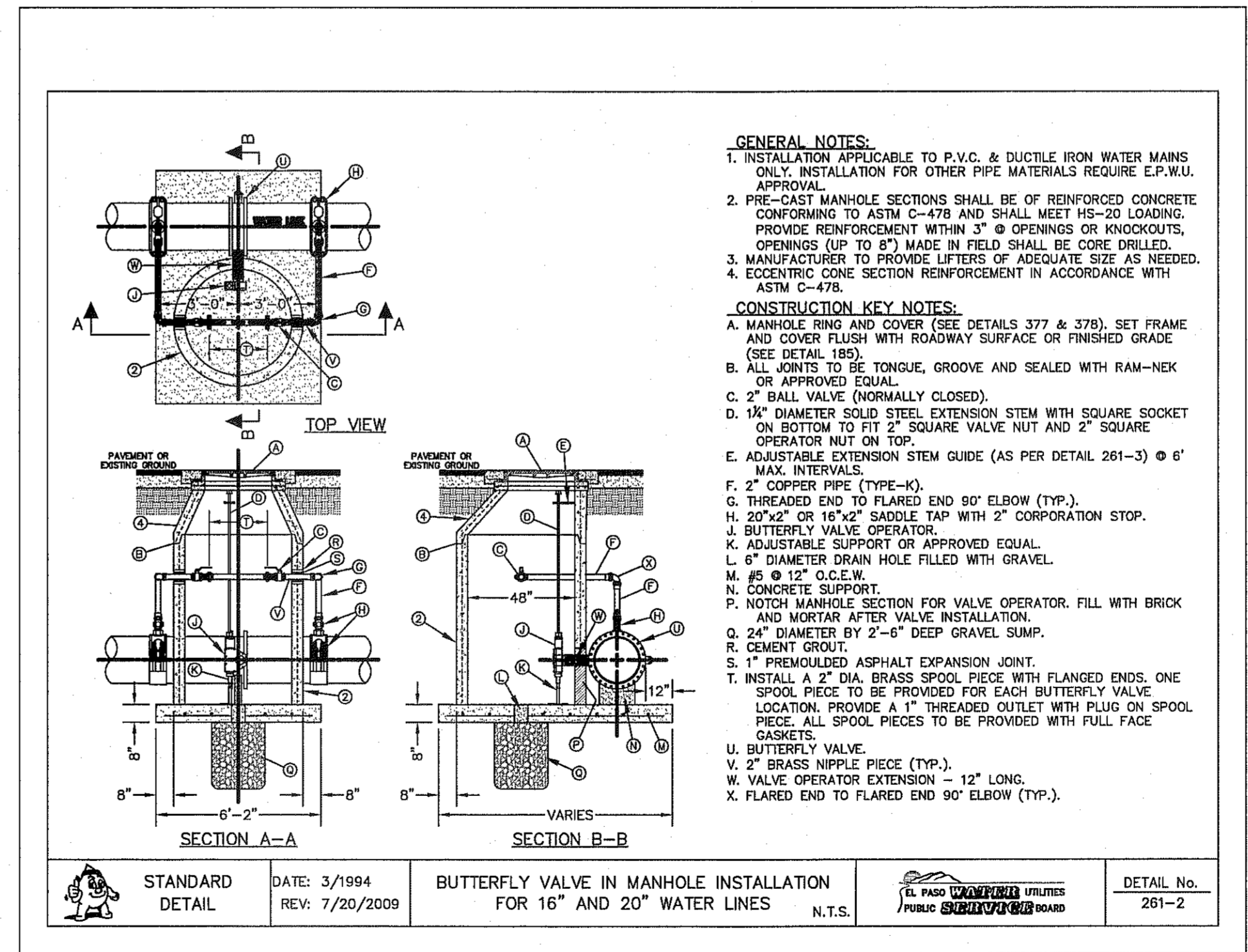
1 FIRE HYDRANT INSTALLATION (12" MAIN OR LARGER)
SCALE: N.T.S.

3 VALVE ANCHOR
SCALE: N.T.S.

2 FIRE HYDRANT LOCATIONS
SCALE: N.T.S.



4 CARRIER PIPE INSTALLATION WITH CASING INSULATORS
SCALE: N.T.S.



5 BUTTERFLY VALVE IN MANHOLE INSTALLATION FOR 16" AND 20" WATER LINES
SCALE: N.T.S.

REFERENCES - BENCHMARKS

FOUND N.A.S. SURVEY MARKER STAMPED "CHINO 1880" ELEVATION: 3925.83 (CITY OF EL PASO VERTICAL DATUM SHOWN) (NAD 88 DATUM) 3945.78 (NAD 29 DATUM) 3945.78 (NAD 29 DATUM)

TIE TO THE PROJECT BENCHMARK IS N0950552'E, 3.020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, BELLE D. WARDY SURVEY No. 259

DATE: _____ BY: _____

REVISIONS

CSA

engineers • architects • planners

4712 Westwood Blvd. Ste. F, El Paso, TX 79904
Office: 915.544.5292 Fax: 915.544.5233 www.csaengineers.com
TEXAS PROFESSIONAL REGISTRATION NO. 4594

ENGINEER'S SEAL

104114

ALAN D. HERRERA

REGISTERED PROFESSIONAL ENGINEER

SCALE

Horizontal: N/A

Vertical: N/A

Contour Interval: N/A

DATE: JUNE 2012

DESIGN BY: A.H.

DRAWN BY: J.M.

CHKD. BY: J.L.A.

APPVD. BY: A.H.

JOB No. 2050-013-LD

PROJECT TITLE

DESERT SPRINGS UNIT ONE

SUBDIVISION IMPROVEMENTS

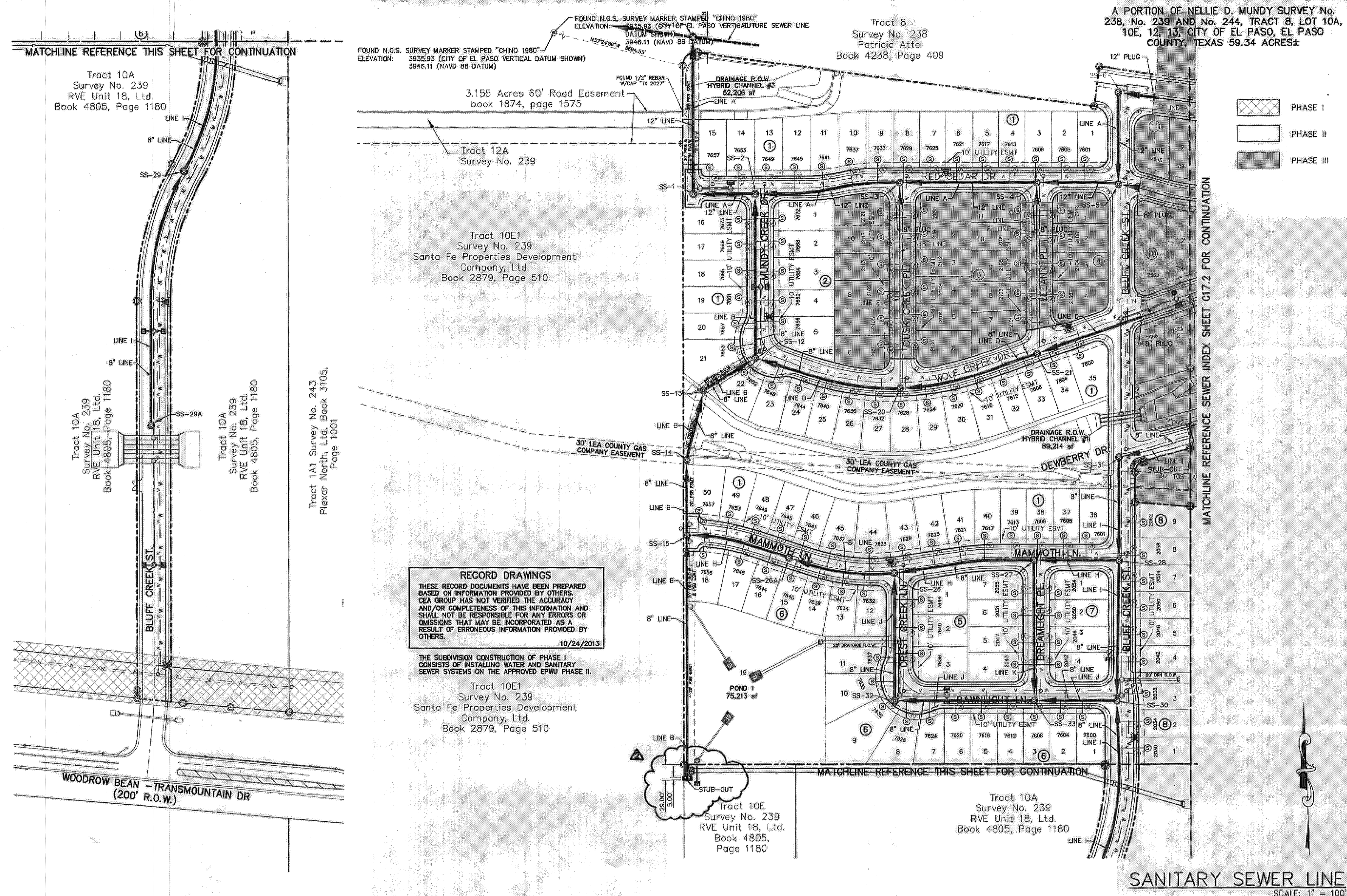
SHEET TITLE

WATER DETAILS

(SHEET 5 OF 5)

SHEET NO.

C16.5



INDEX

| SHEET NO. | DESCRIPTION |
|-----------|---|
| C17.1 | DESERT SPRINGS UNIT ONE LEGEND INDEX GENERAL INFORMATION (SHEET 1 OF 2) |
| C18.1-4 | LINE A |
| C18.5 | LINE B |
| C18.6&7 | LINE C |
| C18.8&9 | LINE D |
| C18.10 | LINE E & F |
| C18.11 | LINE G |
| C18.12 | LINE H |
| C18.13 | LINE I |
| C18.14 | LINE J |
| C18.15 | LINE K,L,M |
| C19.1 | SANITARY SEWER DETAILS |
| C19.2 | SANITARY SEWER DETAILS |
| C19.3 | 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. REQUIRED BY THE EPWU/PSB RULES AND REGULATIONS AND DESIGN STANDARDS.

LEGEND

| SYMBOL | DESCRIPTION |
|--------|--|
| | PROPOSED STORM SEWER |
| | PROPOSED WATER LINE |
| | EXISTING SEWER LINE |
| | EXISTING GAS LINE |
| | SUBD. BOUNDARY LINE |
| | PROPERTY LINE |
| | CENTER LINE |
| | EXISTING MASONRY OR ROCK WALL |
| | EXISTING FENCE LINE |
| | SEWER |
| | PROPOSED SEWER LINE ON ANOTHER SHEET (PLAN VIEW) |
| | PROPOSED SEWER LINE (PROFILE VIEW) |
| | PROPOSED MANHOLE (PLAN VIEW) |
| | POWER POLE |
| | PROPOSED SERVICE CONNECTION (PLAN VIEW) |
| | PROPOSED MANHOLE (PROFILE VIEW) |
| | EXISTING MANHOLE (PROFILE VIEW) |

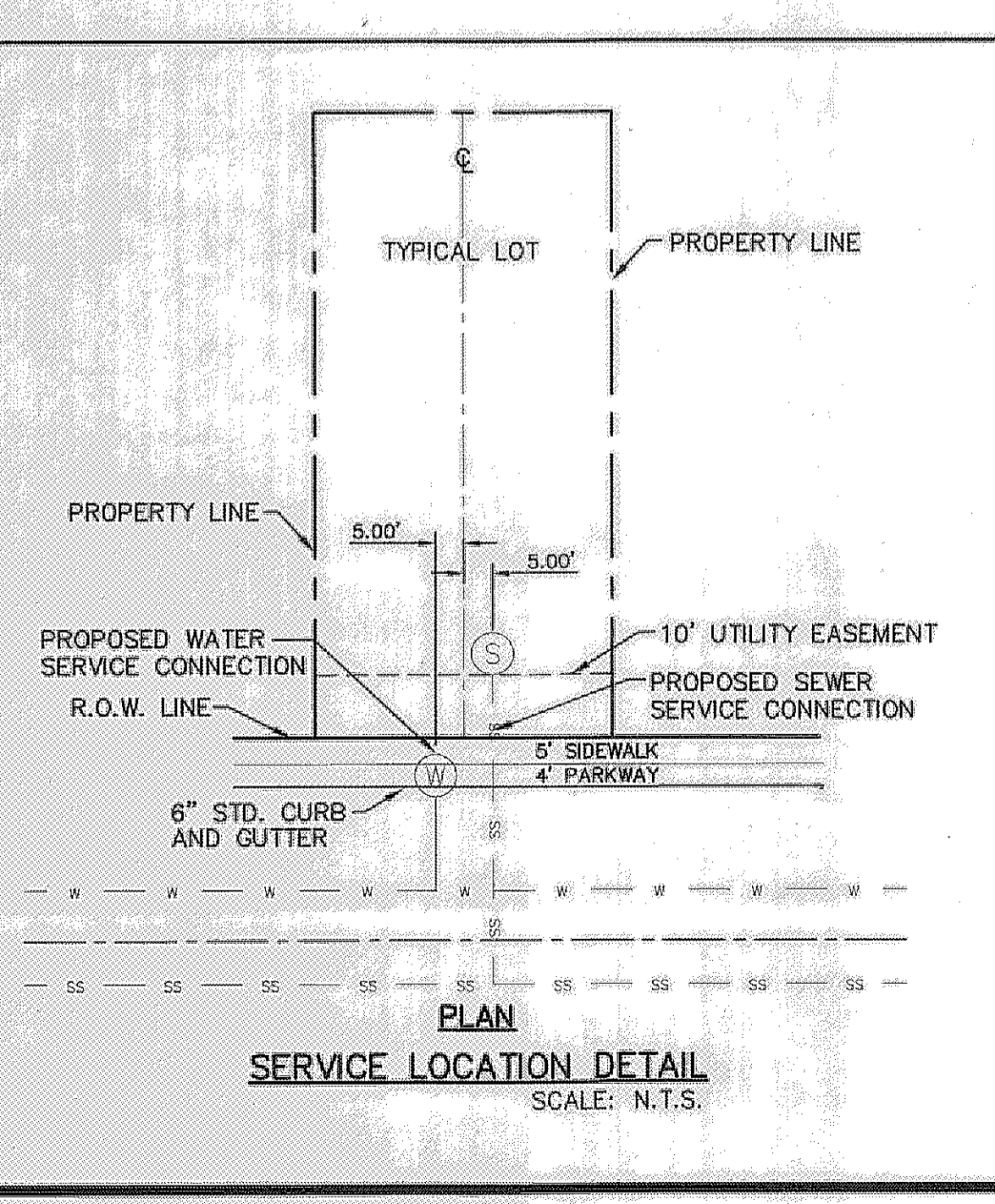
RECORD DRAWINGS

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10/24/2013

THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPWU PHASE II.

Tract 10E1
Survey No. 239
Santa Fe Properties Development Company, Ltd.
Book 2879, Page 510



- ### 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 THE CITY OF EL PASO - DEVELOPMENT SERVICES 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.
 - EL PASO WATER UTILITIES AND THE 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 CONFORM 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:
- OEA GROUP
4712 WOODROW BEAN, STE. F,
EL PASO, TX 79924
(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
MR. RICK DERAGISCH
- ### FIBER OPTICS:
- MCI TELECOMMUNICATIONS CORPS.
4045 DONIPHAN PARK CIRCLE
EL PASO, TX 79922
(915) 542-2770 EXT. 201
MR. DANIEL HERNANDEZ
- ### WATER & SEWER:
- EL PASO WATER UTILITIES
1154 HAWKINS BLVD #1
EL PASO, TX 79925
(915) 534-5200
MR. FELIPE LOPEZ, P.E.
- ### ELECTRIC:
- EL PASO ELECTRIC CO.
501 W. SAN ANTONIO ST.
EL PASO, TX 79902
(915) 543-2078
MR. FRANK WIGEL (DISTRIBUTION)
- ### EL PASO STREETS:
- CITY OF EL PASO DEPARTMENT
OF TRANSPORTATION,
7969 SAN PAULO DR.
EL PASO, TX 79907
(915) 521-6755
MR. DARYL COLE
- ### CABLE TELEVISION:
- TIME WARNER COMMUNICATIONS
7010 AIRPORT ROAD
EL PASO, TX 79905
(915) 772-1123
MR. JOHN MARES

TELEPHONE:

SBC
11200 PELICANO
EL PASO, TX 79935
(915) 680-7218
MR. TIM BROWN

FIBER OPTICS:

AT&T
P.O. BOX 1650
EL PASO, TX 79949
(800) 852-3786
MS. DARLENE NORIS

RESIDENTIAL GAS LINES:

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

WARNING 1 BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
FOUND N.G.S. SURVEY MARKER NUMBER "CHINO 1880"
ELEVATION: 3946.11 (CITY OF EL PASO VERTICAL DATUM SHOWN)
FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1880"
ELEVATION: 3946.11 (NAVD 88 DATUM)
FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1880"
ELEVATION: 3946.11 (NAVD 88 DATUM)
TIE TO THE PROJECT BENCHMARK IS 100.000 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 238

DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS

PROJECT TITLE

SHEET TITLE

SANITARY SEWER INDEX PHASING PLAN

(SHEET 1 OF 2)

SHEET NO.

C17.1R

SAINTARY SEWER EXTENSION REVISION ADI

REFERENCES - BENCHMARKS

FOUND N.G.S. SURVEY MARKER NUMBER "CHINO 1880"
ELEVATION: 3946.11 (CITY OF EL PASO VERTICAL DATUM SHOWN)
FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1880"
ELEVATION: 3946.11 (NAVD 88 DATUM)
FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1880"
ELEVATION: 3946.11 (NAVD 88 DATUM)
TIE TO THE PROJECT BENCHMARK IS 100.000 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 238

DATE: BY: REVISIONS:

SAINTARY SEWER EXTENSION REVISION ADI

engineers • architects • planners
OEA GROUP
Castaner • Center @ Transmountain
4712 Woodrow Bean, Ste. F, El Paso, TX 79924
Office: 915-544-5232
Texas P&E Registration No. 458

SCALE: 1" = 100'
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: A.H.
CHECKED BY: A.H.
APPROVED BY: A.H.
JOB No. 2010-013-LD

RECORD DRAWINGS
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 10/24/2013

A PORTION OF NELLIE D. MUNDY SURVEY No. 238, No. 239 AND No. 244, TRACT 8, LOT 10A, 10E, 12, 13, CITY OF EL PASO, EL PASO COUNTY, TEXAS 59.34 ACRES±

THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPWU PHASE II.
 REFERENCE SUBDIVISION PHASE II

PHASE II

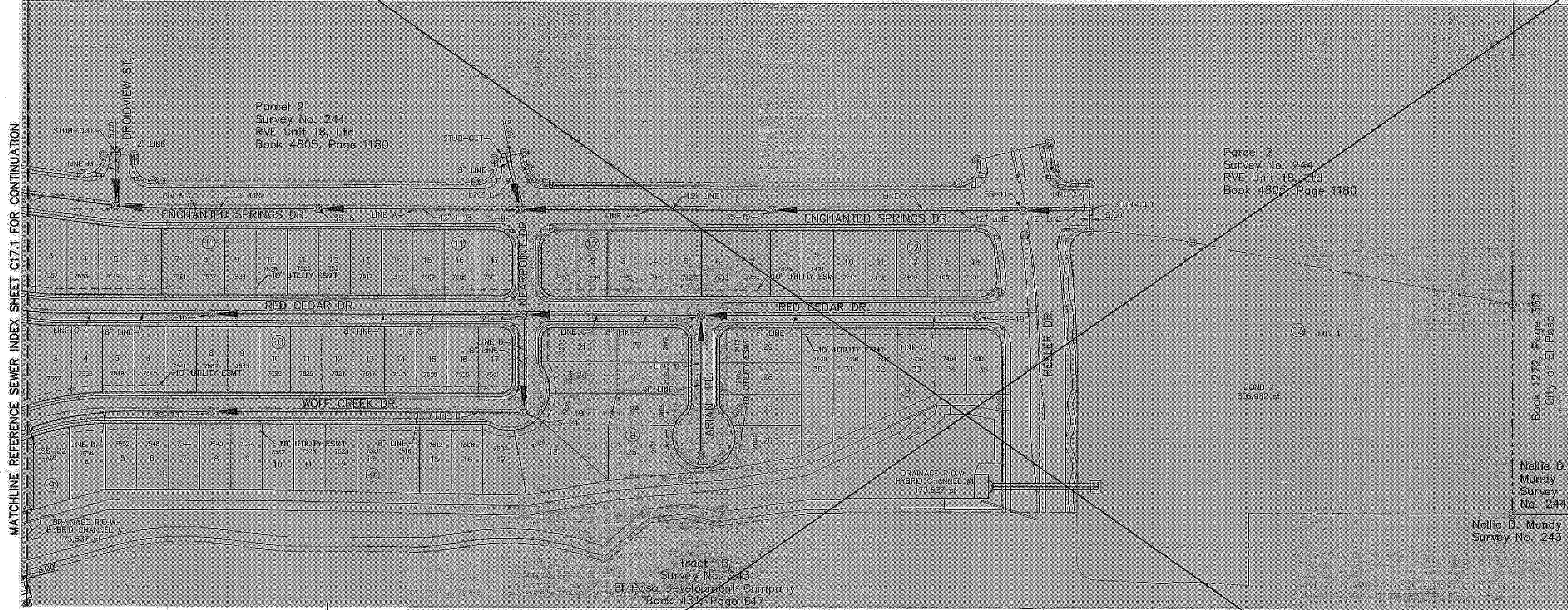
INDEX

| SHEET NO. | DESCRIPTION |
|-----------|---|
| C17.2 | DESERT SPRINGS UNIT ONE LEGEND INDEX GENERAL INFORMATION (SHEET 2 OF 2) |
| C18.1-4 | LINE A |
| C18.5 | LINE B |
| C18.6&7 | LINE C |
| C18.8&9 | LINE D |
| C18.10 | LINE E & F |
| C18.11 | LINE G |
| C18.12 | LINE H |
| C18.13 | LINE I |
| C18.14 | LINE J |
| C18.15 | LINE K,L,M |
| C19.1 | SANITARY SEWER DETAILS |
| C19.2 | SANITARY SEWER DETAILS |
| C19.3 | 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. REQUIRED BY THE EPWU/PSB RULES AND REGULATIONS AND DESIGN STANDARDS.

LEGEND

| SYMBOL | DESCRIPTION |
|---|--|
| (Symbol: Dashed line with cross-hatches) | PROPOSED STORM SEWER |
| (Symbol: Dashed line) | PROPOSED WATER LINE |
| (Symbol: Solid line) | EXISTING SEWER LINE |
| (Symbol: Dashed line with dots) | EXISTING GAS LINE |
| (Symbol: Dotted line) | SUBD. BOUNDARY LINE |
| (Symbol: Solid line with dashes) | PROPERTY LINE |
| (Symbol: Dashed line with circles) | CENTER LINE |
| (Symbol: Solid line with 'X' marks) | EXISTING MASONARY OR ROCK WALL |
| (Symbol: Dashed line with 'X' marks) | EXISTING FENCE LINE |
| (Symbol: Solid line with arrow) | SEWER |
| (Symbol: Solid line with arrow and P.V.C. symbol) | PROPOSED SEWER LINE (PLAN VIEW) |
| (Symbol: Solid line with arrow and P.V.C. symbol) | PROPOSED SEWER LINE ON ANOTHER SHEET (PLAN VIEW) |
| (Symbol: Solid line with arrow and P.V.C. symbol) | PROPOSED SEWER LINE (PROFILE VIEW) |
| (Symbol: Circle with 'Q') | PROPOSED MANHOLE (PLAN VIEW) |
| (Symbol: Circle with 'P') | POWER POLE |
| (Symbol: Circle with 'S') | PROPOSED SERVICE CONNECTION (PLAN VIEW) |
| (Symbol: Circle with 'M') | PROPOSED MANHOLE (PROFILE VIEW) |
| (Symbol: Circle with 'E') | EXISTING MANHOLE (PROFILE VIEW) |



SANITARY SEWER LINE
 SCALE: 1" = 100'

- 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. SEPERATIONS DISTANCES SHALL FOLLOW TOEQ 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 THE CITY OF EL PASO - DEVELOPMENT SERVICES 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.
 - EL PASO WATER UTILITIES AND THE 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 CONFORM TO EPWU-PSB STANDARD SPECIFICATIONS FOR THE INSTALLATION OF WATER MAINS, SEWER MAINS AND RELATED APPURTENANCES.

NOTE:
 THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN 30' TGS EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.

- GENERAL UTILITIES:**
 TEXAS EXCAVATION SAFETY SERVICE
 11804 GREENVILLE AVENUE
 DALLAS, TX 75243
 (800) 344-8377
- ENGINEER:**
 CEA GROUP
 4712 WOODROW BEAN, STE. F.
 EL PASO, TX 79924
 (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
 MR. RICK DERAGISCH
- FIBER OPTICS:**
 MO TELECOMMUNICATIONS CORP.
 4045 DONIPHAN PARK CIRCLE
 EL PASO, TX 79922
 (915) 542-2770 EXT. 201
 MR. DANIEL HERNANDEZ
- WATER & SEWER:**
 EL PASO WATER UTILITIES
 1154 HAWKINS BLVD #1
 EL PASO, TX 79902
 (915) 594-5500
 MR. FELIPE LOPEZ, P.E.
- ELECTRIC:**
 EL PASO ELECTRIC CO.
 501 W. SAN ANTONIO ST.
 EL PASO, TX 79902
 (915) 543-2076
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- EL PASO STREETS**
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION
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 EL PASO, TX 79907
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 MR. DARYL COLE
- CABLE TELEVISION:**
 TIME WARNER COMMUNICATIONS
 7010 AIRPORT ROAD
 EL PASO, TX 79906
 (915) 772-1123
 MR. JOHN MARES

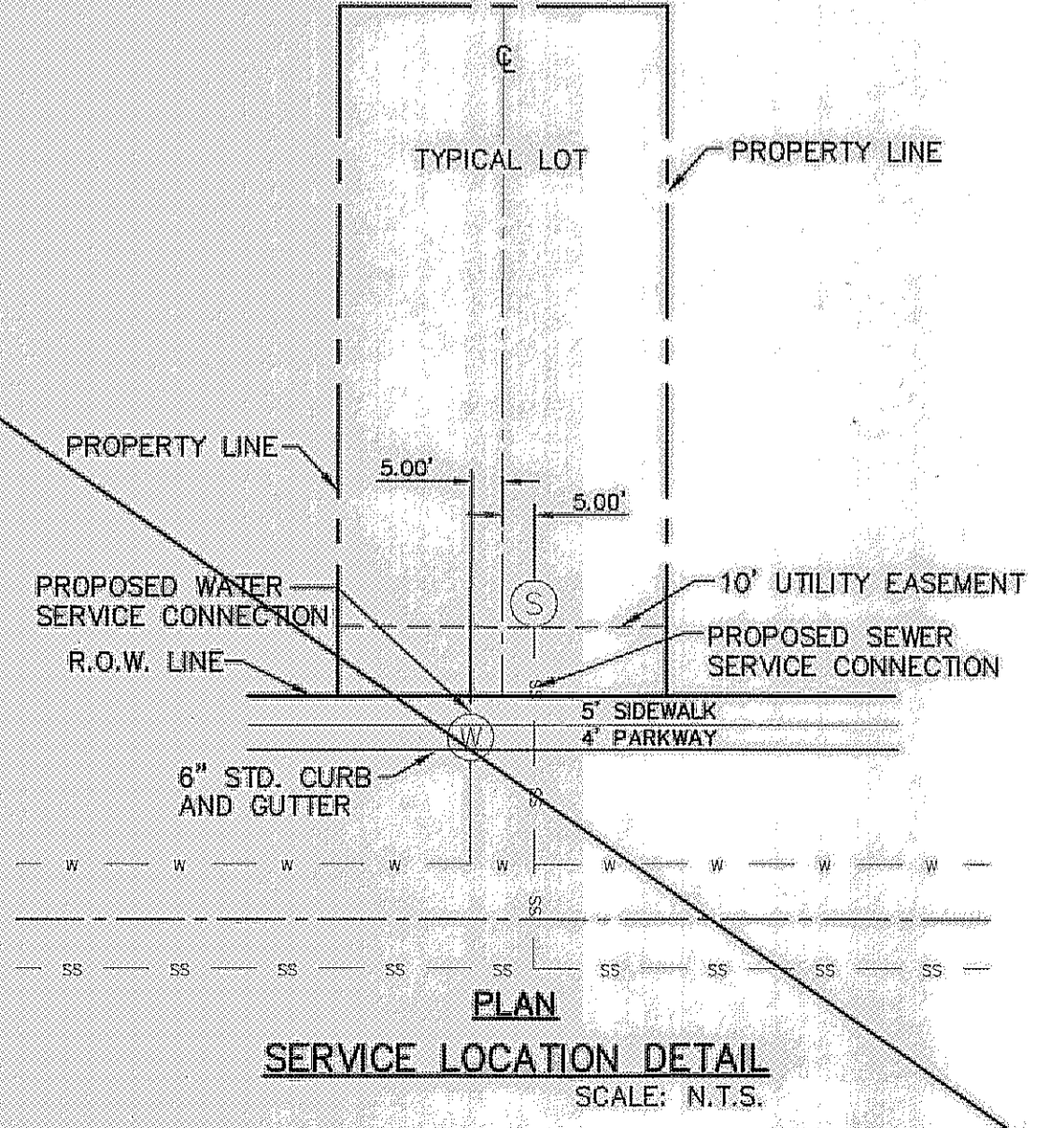
GAS LINE:
 ONEOK WESTEX TRANSMISSION
 11394 JAMES WATT, STE. 302
 EL PASO, TX 79936
 (915) 637-8446
 MR. OSCAR PHILLIPS

TELEPHONE:
 SBC
 11200 PELICANO
 EL PASO, TX 79935
 (915) 595-5151
 MR. TIM BROWN

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 EL PASO, TX 79949
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 EL PASO, TX 79930
 (915) 680-7218
 MR. ALEX LIMON

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 CALL
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 FOR FIELD LOCATING EXISTING UTILITIES



REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHIRO 1980"
 ELEVATION: (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NAVD 88 DATUM)
 3943.78 (NGVD 29 DATUM)
 FEET TO THE POINT 1/2 INCH BEARING FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 238

REVISIONS

| NO. | DATE | REVISIONS | BY |
|-----|------|-----------|----|
| | | | |

ENGINEER'S SEAL
 CEA GROUP
 Engineers • Architects • Planners
 Center Office: 4712 Woodrow Bean, Ste. F, El Paso, TX 79924
 Office Phone: (915) 544-5232
 TEXAS PROFESSIONAL REGISTRATION No. 664

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 SANITARY SEWER INDEX
 (SHEET 2 OF 2)

SHEET NO.
 C17.2

RECORD DRAWINGS
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 10/24/2013

ACTUAL DIMENSION VARIES WITH ACTUAL THICKNESS OF THE PIPE. DIMENSION SHOWN IS FROM INVERT OF RCP PIPE TO TOP OF SANITARY SEWER.

THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPMU PHASE II.

UTILITY LOCATOR SERVICES

| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 498-5244 |
| EL PASO WATER UTILITIES | (915) 594-4500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 395-6818 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING!
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 CALL
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 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

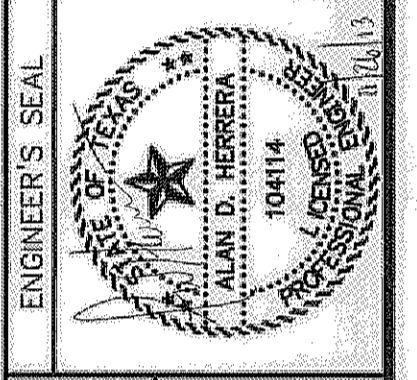
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 SHOWS CITY OF EL PASO VERTICAL DATUM

BE TO THE PROJECT BENCH MARK IS LOCATED 570.00 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

DATE: _____ BY: _____

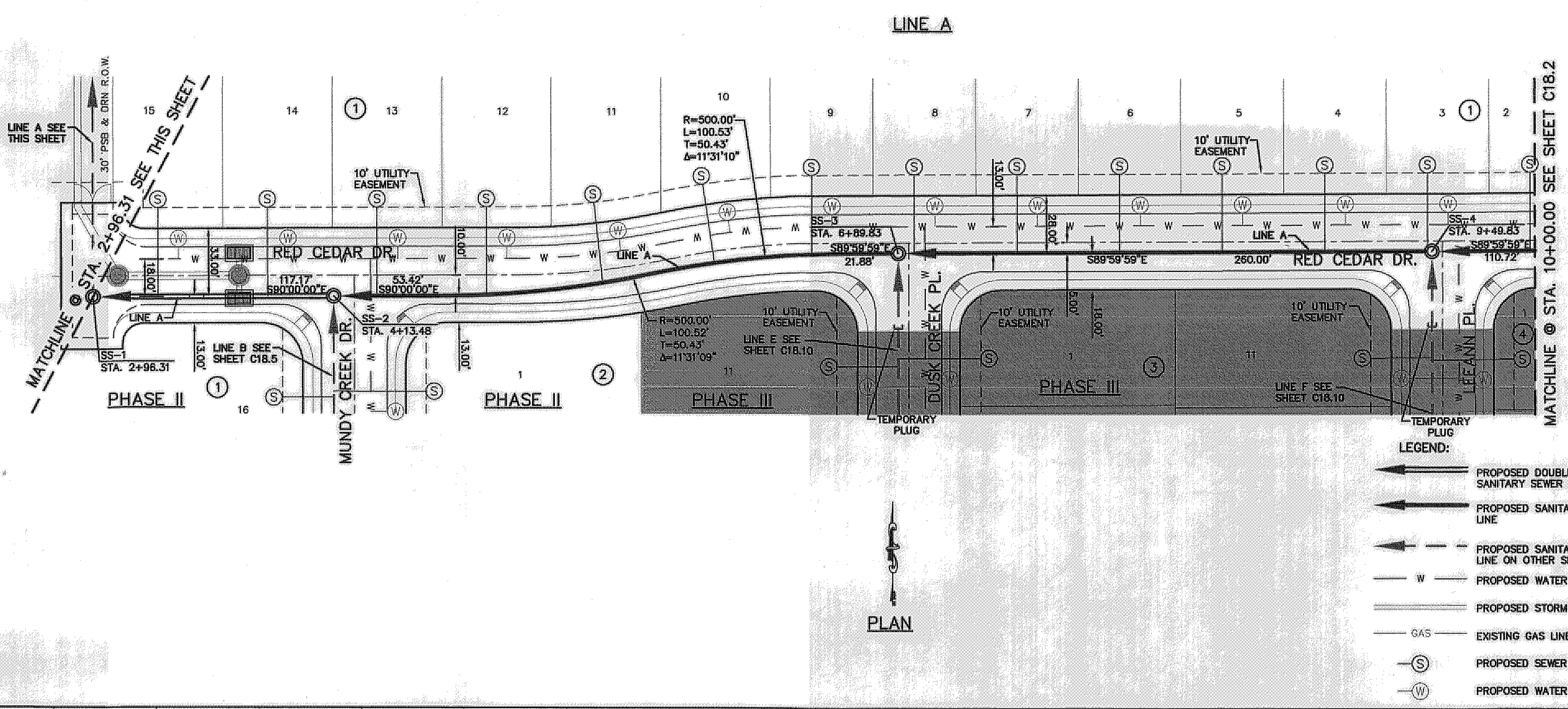
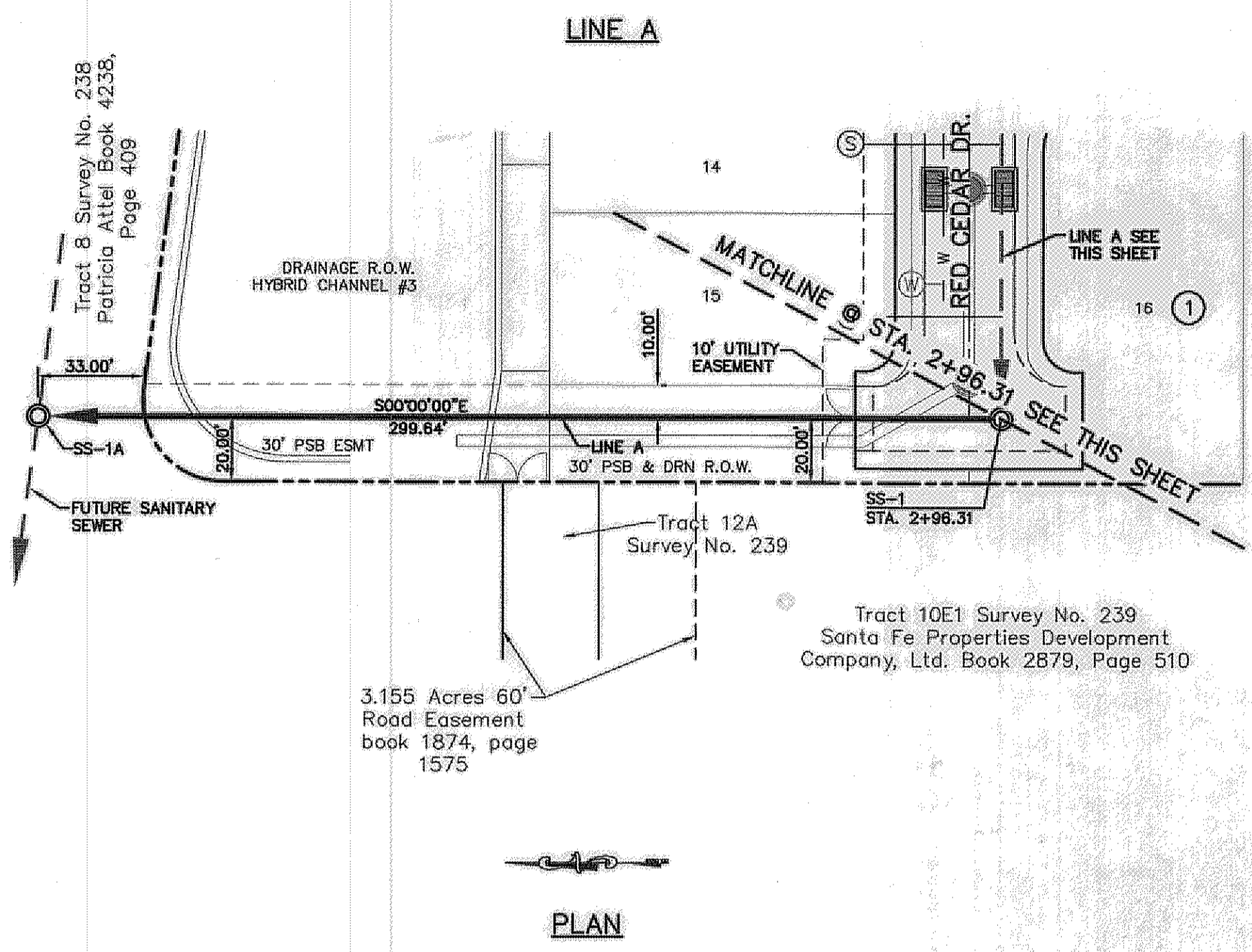
REVISIONS

cea
 engineers • architects • planners
 Casner Center • Transmountain
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 (915) 778-8000
 CEA TEXAS REGISTRATION NO. 484

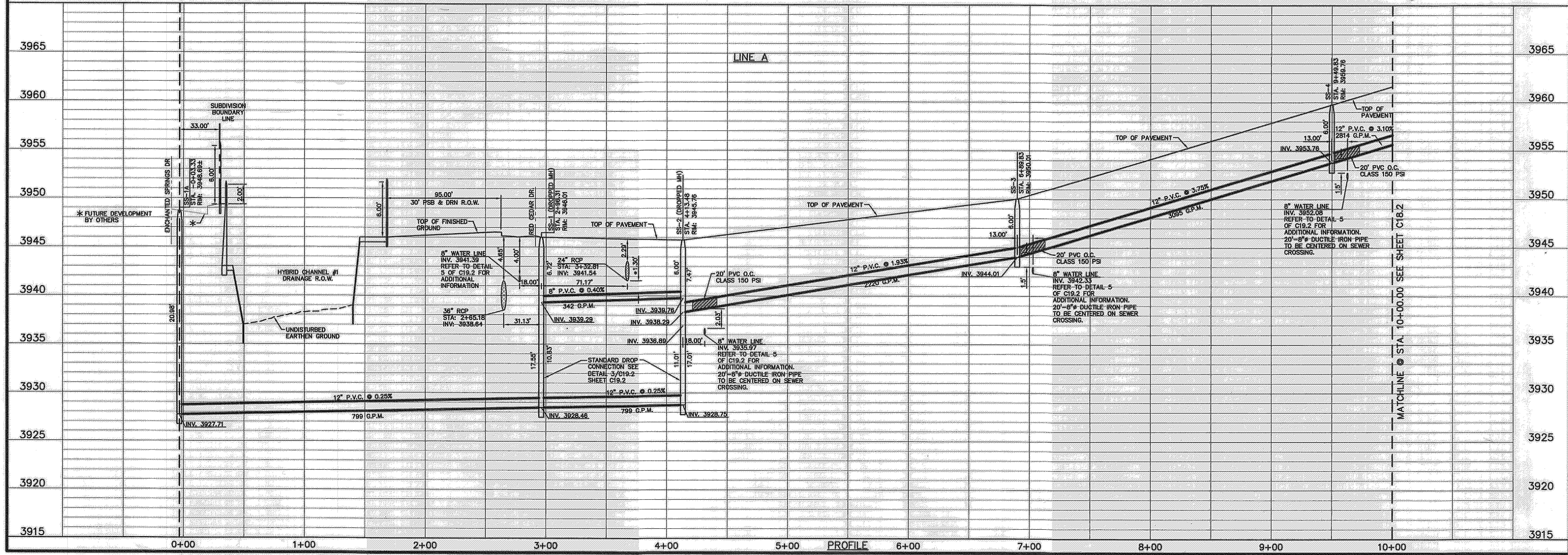


SCALE: Horizontal: 1"=40'
 Vertical: 1"=5'
 Contour Interval: N/A

DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.M.
 APP'D. BY: A.H.
 JOB No. 2050-013-LD



- LEGEND:**
- ← PROPOSED DOUBLE PIGGY SANITARY SEWER LINES
 - ← PROPOSED SANITARY SEWER LINE
 - ← PROPOSED SANITARY SEWER LINE ON OTHER SHEETS
 - W PROPOSED WATER LINE
 - PROPOSED STORM SEWER
 - EXISTING GAS LINE
 - ⊙ PROPOSED SEWER SERVICE
 - ⊙ PROPOSED WATER SERVICE



DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SHEET TITLE
 SANITARY SEWER PLAN & PROFILE LINE "A"

SHEET NO.
C18.1

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 10/24/2013
 THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPWU PHASE II.
 REFERENCE SUBDIVISION PHASE II

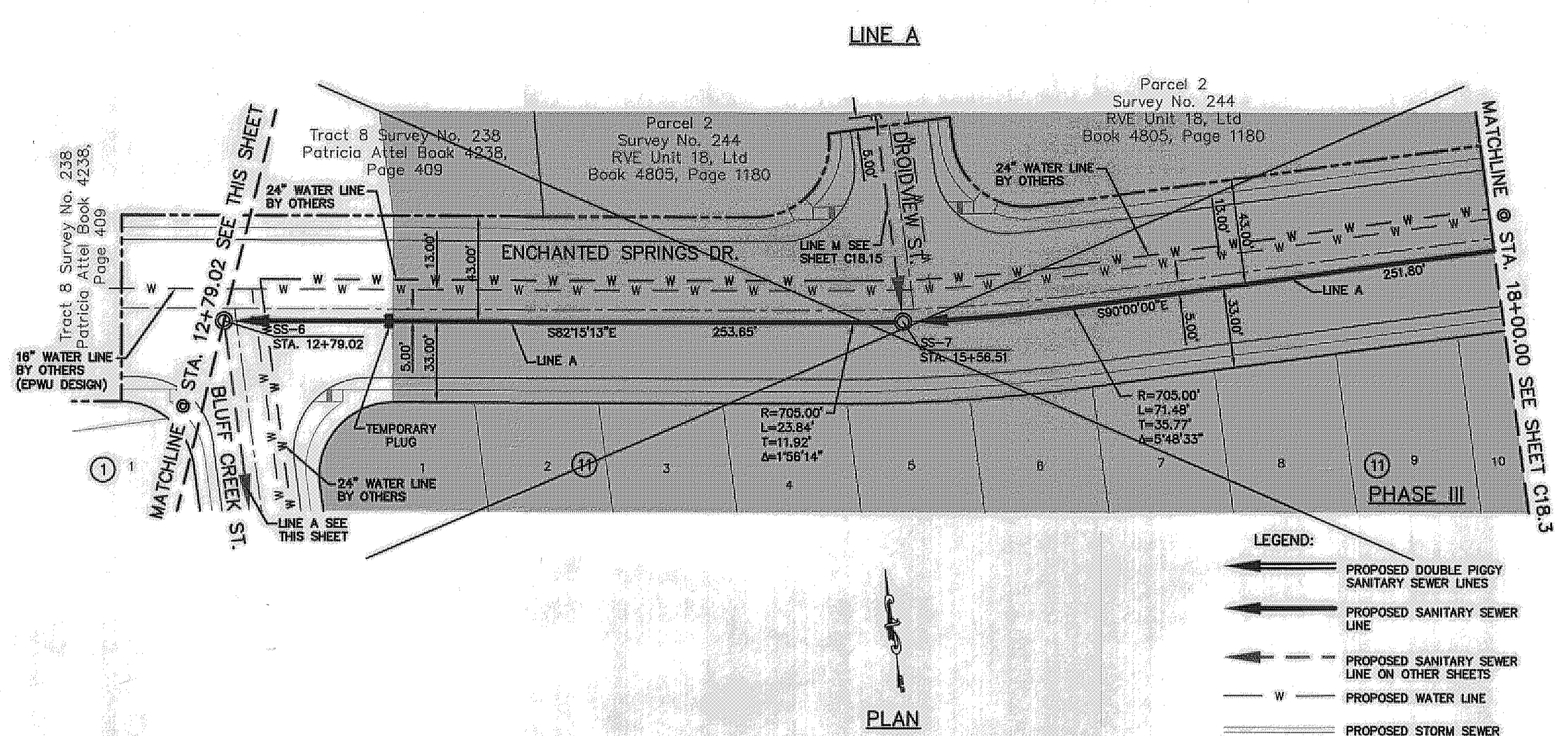
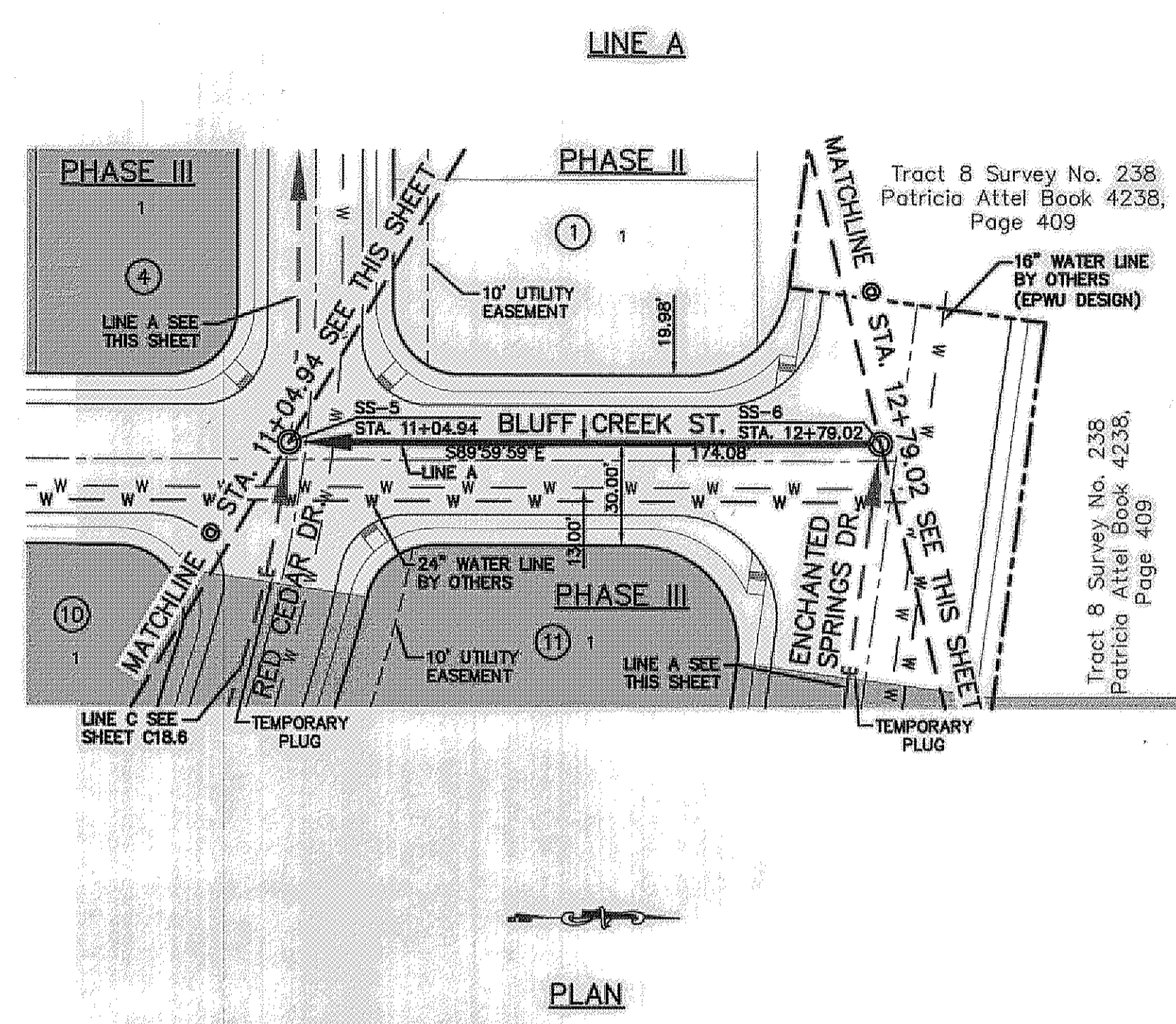
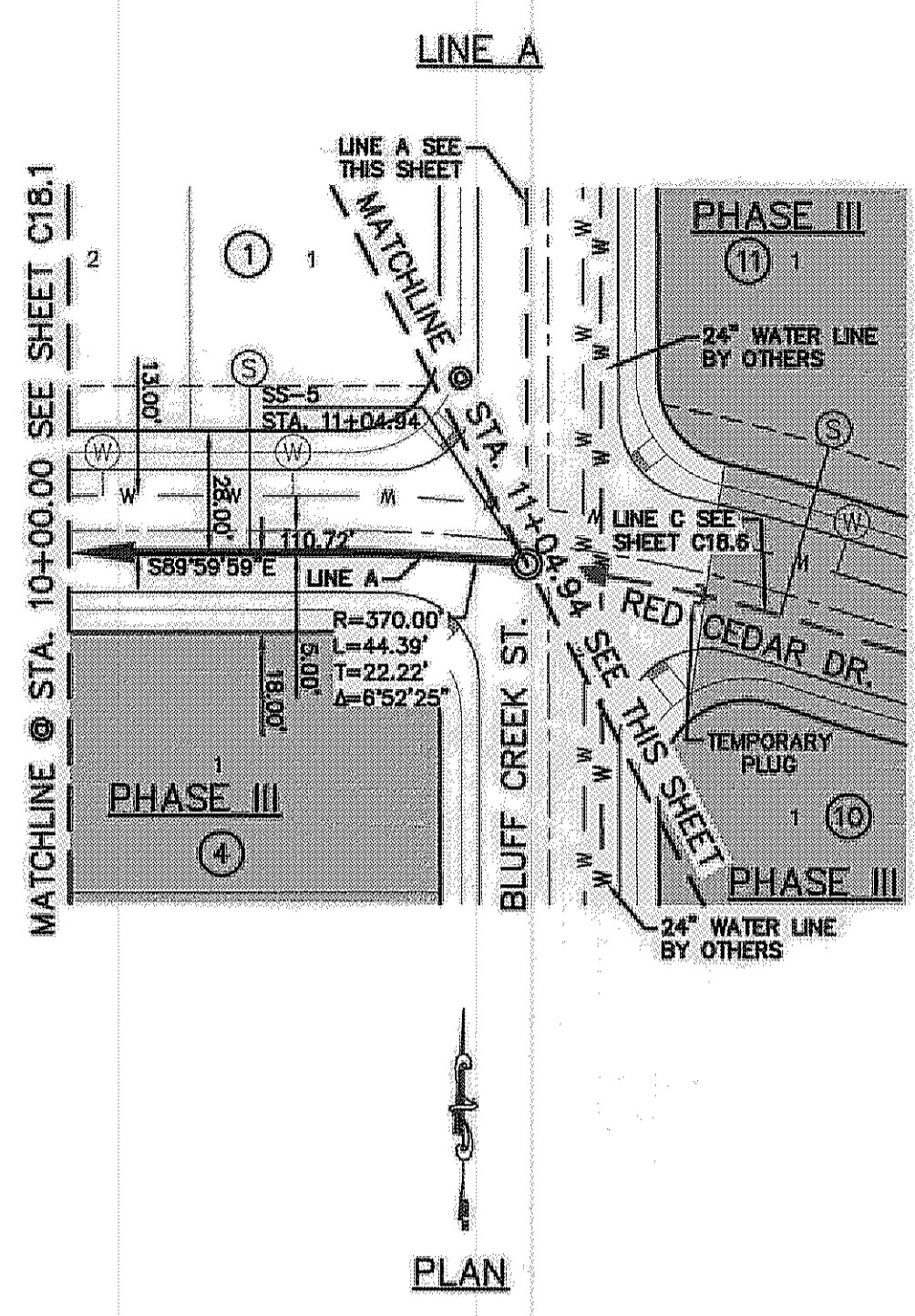
UTILITY LOCATOR SERVICES

| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 498-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING I BEFORE YOU DIG
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 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

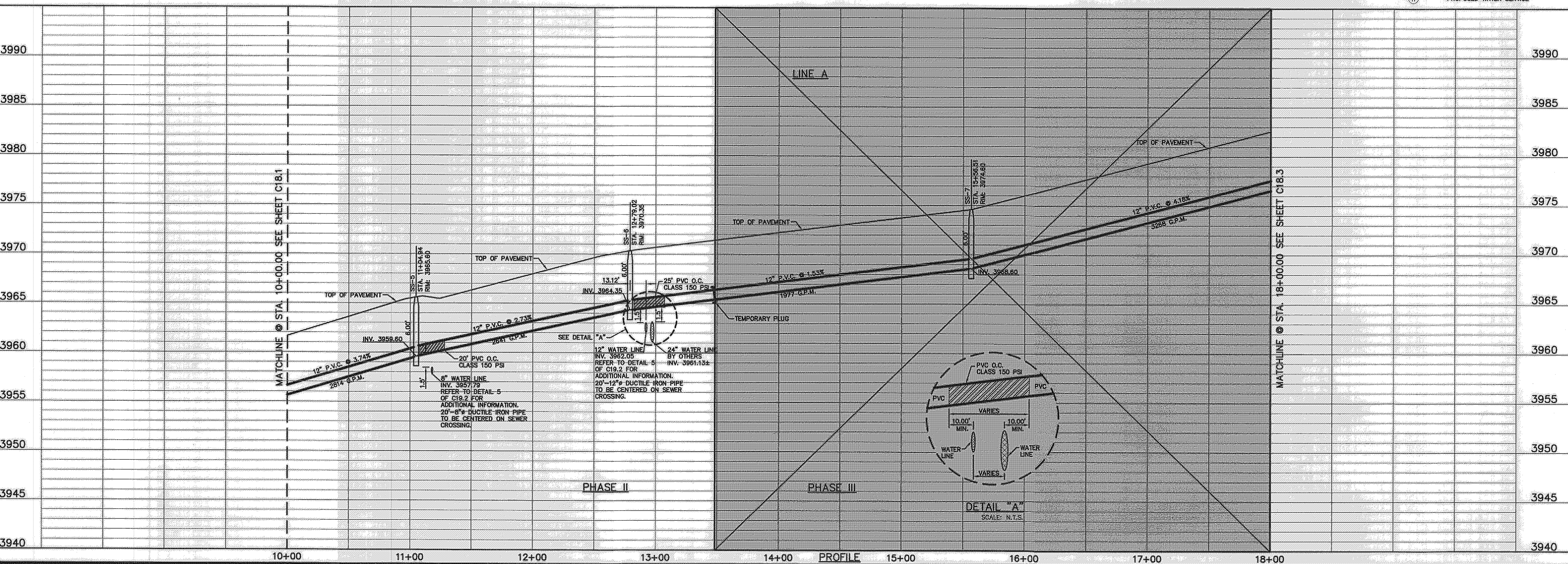
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 3945.78 (NAVD 28 DATUM)
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 TO THE PROJECT BENCHMARK IS 10050.92', 3020.83'
 CORNER OF TRACT 11, HELLE, D.
 SURVEY NO. 238
 DATE: _____ BY: _____



- LEGEND:**
- ← PROPOSED DOUBLE PIGGY SANITARY SEWER LINES
 - ← PROPOSED SANITARY SEWER LINE
 - ← PROPOSED SANITARY SEWER LINE ON OTHER SHEETS
 - W PROPOSED WATER LINE
 - PROPOSED STORM SEWER
 - GAS EXISTING GAS LINE
 - ⊙ PROPOSED SEWER SERVICE
 - ⊙ PROPOSED WATER SERVICE

ENGINEER'S SEAL

ALAN D. HERRERA
 10414
 ENGINEERS • ARCHITECTS • PLANNERS
 Casimir Center @ Transmountain
 4712 Woodrow Bann, Ste. F El Paso, TX 79924
 OFF: 915.544.5232 Fax: 915.544.5233 www.ceagroup.net
 TEXAS P.E. REGISTRATION NO. 4584



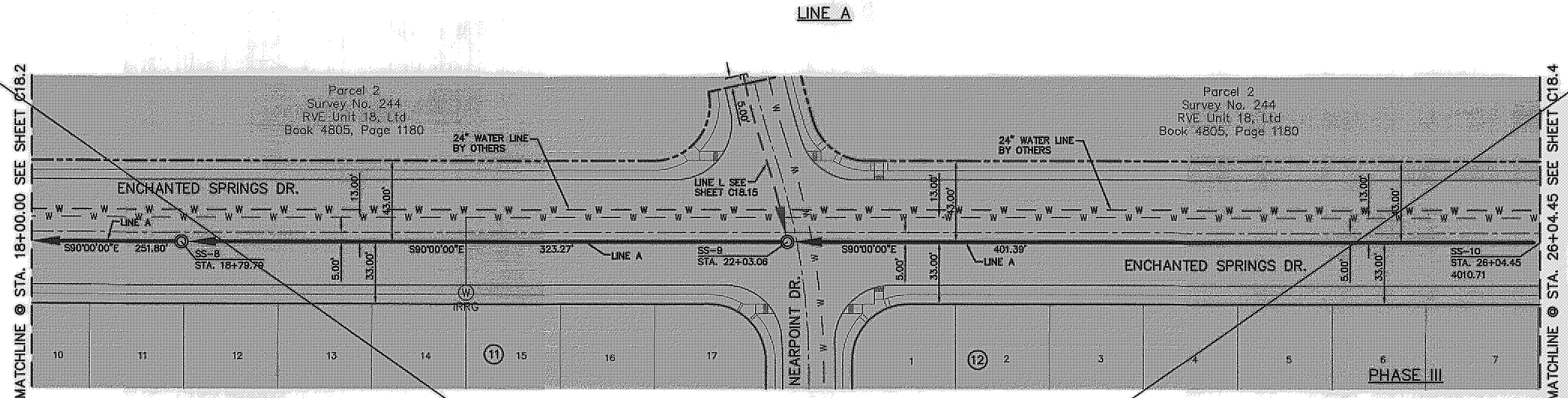
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| Horizontal Scale: 1"=40' | PROJECT TITLE | DESERT SPRINGS UNIT ONE PHASE I SUBDIVISION IMPROVEMENTS |
| Vertical Scale: 1"=5' | | |
| Contour Interval: N/A | SHEET TITLE | SANITARY SEWER PLAN & PROFILE LINE "A" |
| DATE: JUNE 2012 | | |
| DESIGN BY: A.H. | SHEET NO. | C18.2 |
| DRAWN BY: J.L.A. | | |
| CHKD. BY: J.L.A. | REVISIONS | |
| APP'D. BY: A.H. | BY: _____ | |
| JOB NO. 2050-013-1D | DATE: _____ | |

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 REFERENCE SUBDIVISION PHASE II

UTILITY LOCATOR SERVICES
 EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 498-5244
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (915) 680-7200
 ONEOK PARTNERS (915) 695-6918
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (800) 621-0579
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750
 (AFTER HOURS) (915) 240-3220

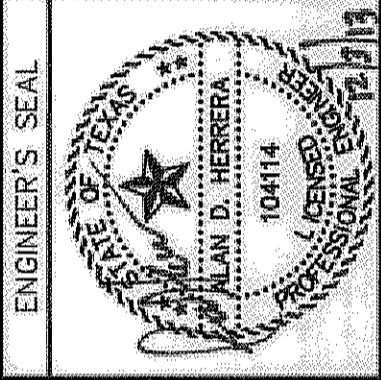
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 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
 FOUND N.A.S. SURVEY MARKER STAMPED "OHIO 1887" ELEVATION: 3936.93 (CITY OF EL PASO VERTICAL DATUM SHOWN)
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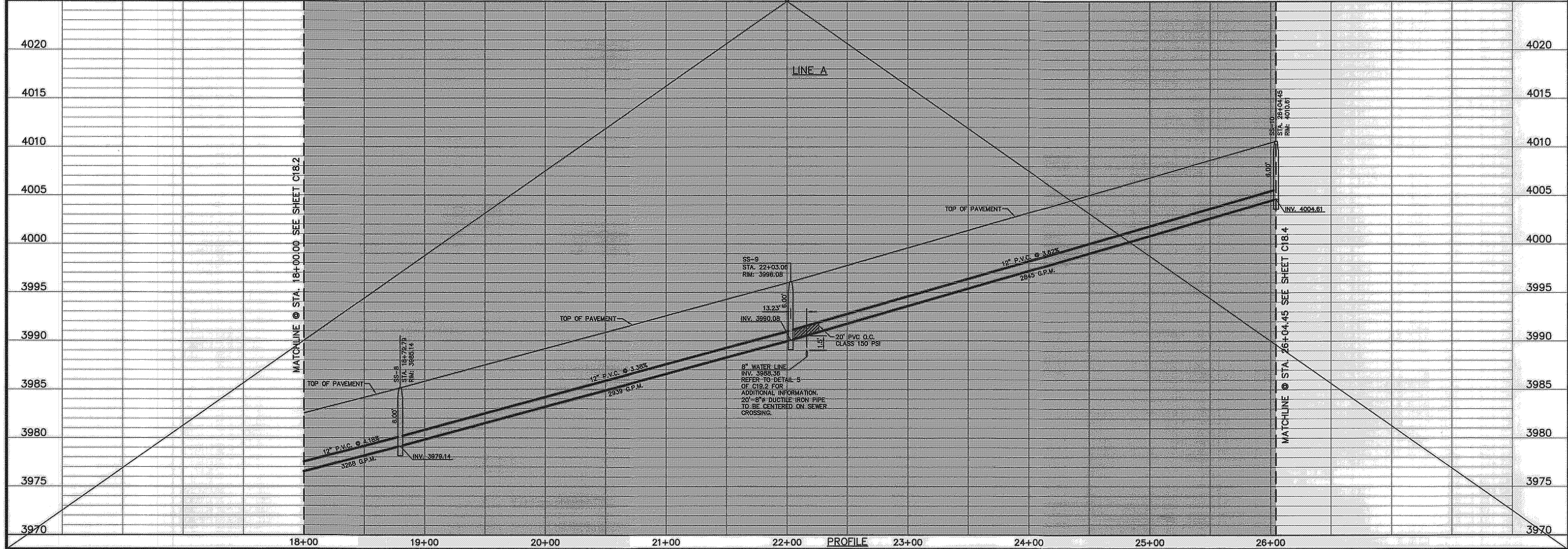


- LEGEND:**
- ← PROPOSED DOUBLE PIGGY SANITARY SEWER LINES
 - ← PROPOSED SANITARY SEWER LINE
 - ← PROPOSED SANITARY SEWER LINE ON OTHER SHEETS
 - W PROPOSED WATER LINE
 - PROPOSED STORM SEWER
 - GAS EXISTING GAS LINE
 - ⊙ PROPOSED SEWER SERVICE
 - ⊙ PROPOSED WATER SERVICE

CEA GROUP
 engineers • architects • planners
 Casimer Center @ Transmountain
 Office: 11554 S. 282nd St. #100, Overland Park, KS 66209
 Texas Firm Registration No. 4581



SCALE
 Horizontal: 1"=40'
 Vertical: 1"=5'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APPVD. BY: A.H.
 JOB No. 2050-013-LD



PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 SANITARY SEWER
 PLAN & PROFILE
 LINE "A"

SHEET NO.
 C18.3

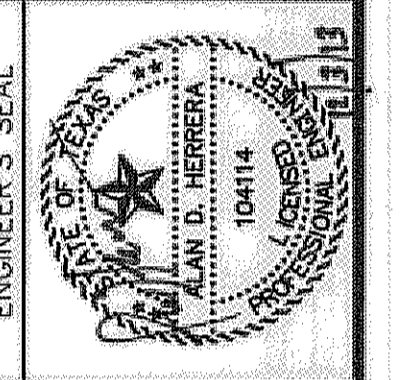
RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013
 THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPMU PHASE II.
 REFERENCE SUBDIVISION PHASE II

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
 ONEOK PARTNERS (915) 590-6918
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750
 (AFTER HOURS) (915) 240-3220

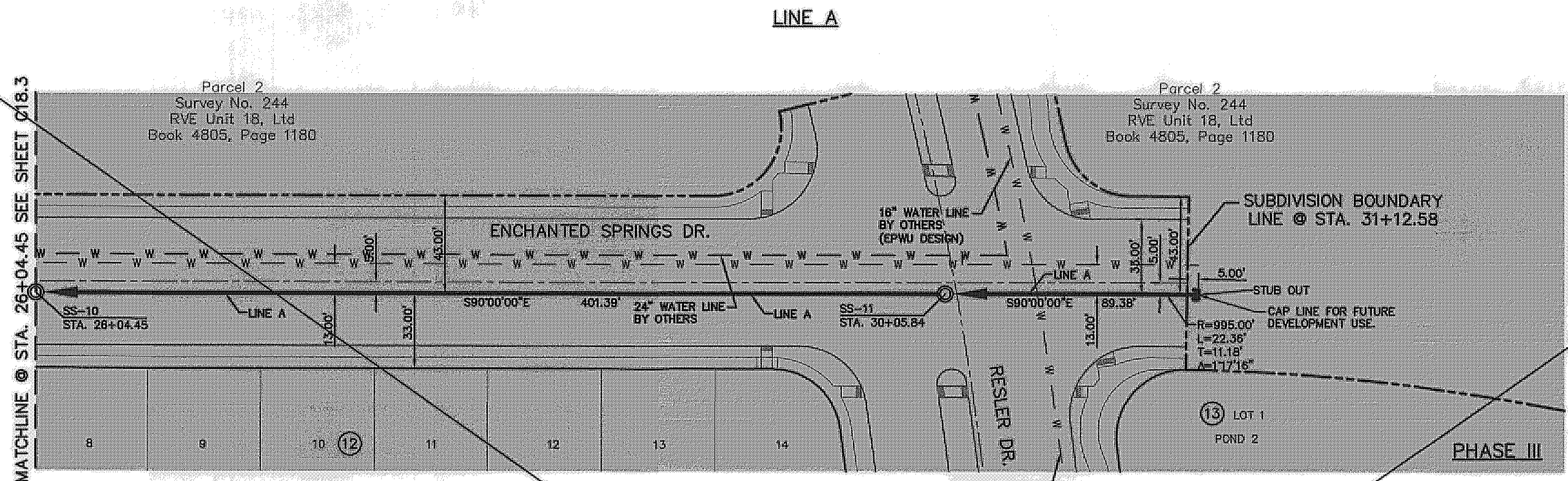
WARNING I BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1861" ELEVATION: 3946.11 CITY OF EL PASO METRIC DATUM 3946.11 (NAVD 88 DATUM)
 TIE TO THE PROJECT: 8945.78 (NGVD 29 DATUM) 3946.11 (NAVD 88 DATUM) 1.000000 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239
 DATE: _____ BY: _____ REVISIONS: _____

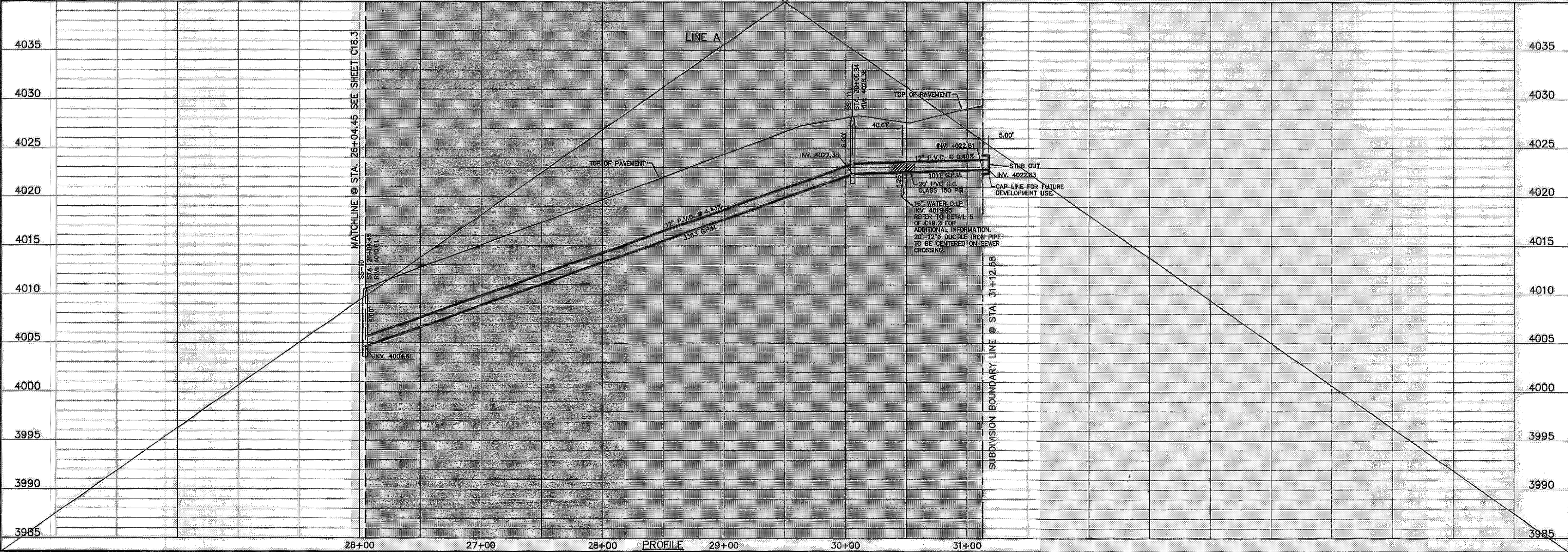
CEA GROUP
 engineers • architects • planners
 Castner Center @ Transmountain
 4712 Woodrow Bean, Ste. F El Paso, TX 79924
 Office: (915) 772-1123
 Texas State Registration No. 458



SCALE
 Horizontal: 1"=40'
 Vertical: 1"=5'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHECKED BY: J.L.A.
 APP'D. BY: A.H.
 JOB No. 2010-013-LD



- LEGEND:**
- ← PROPOSED DOUBLE PIGGY SANITARY SEWER LINES
 - ← PROPOSED SANITARY SEWER LINE
 - ← PROPOSED SANITARY SEWER LINE ON OTHER SHEETS
 - W PROPOSED WATER LINE
 - PROPOSED STORM SEWER
 - GAS EXISTING GAS LINE
 - ⊙ PROPOSED SEWER SERVICE
 - ⊙ PROPOSED WATER SERVICE



PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 SANITARY SEWER
 PLAN & PROFILE
 LINE "A"

SHEET NO.
 C18.4

GENERAL NOTES:
 * ACTUAL DIMENSION VARIES WITH ACTUAL THICKNESS OF THE PIPE. DIMENSION SHOWN IS FROM INVERT OF RCP PIPE TO TOP OF SANITARY SEWER.

1. THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN THE 30' TGS EASEMENT AND 30' LEA COUNTY GAS COMPANY EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.

UTILITY LOCATOR SERVICES

| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 498-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-8918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING!
BEFORE YOU DIG

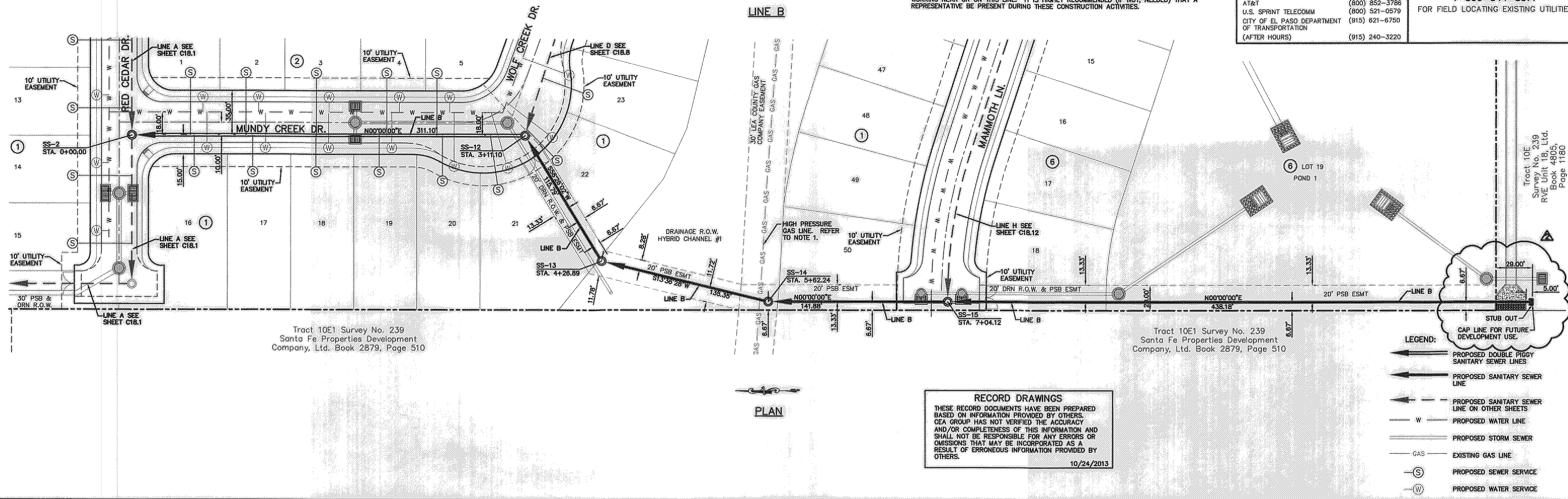
CALL
 1-800-DIG-TESS
 1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
 FOUND N.A.S. SURVEY MARKER STAMPED "CHINO 1980"
 3956.93 (CITY OF EL PASO VERTICAL DATUM)
 ELEVATION:
 3946.11 (NAD 83 DATUM)
 3945.78 (NAD 29 DATUM)

TIE TO THE PROJECT BENCHMARK IS 800'50.92'E, 3.020'83"
 CORNER OF TRACT 11, NELLE D. MUNDY SURVEY No. 239

DATE: _____ BY: _____
 REVISIONS: _____
 EXTENSION: _____
 REVISION: _____



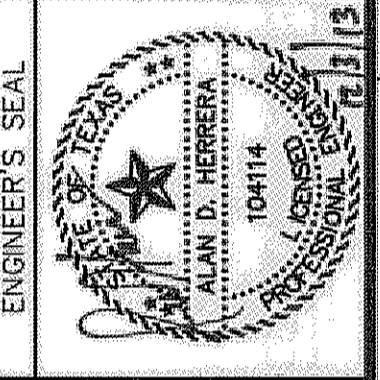
RECORD DRAWINGS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

10/24/2013

Tract 10E Survey No. 239
 Santa Fe Properties Development
 Company, Ltd. Book 4805,
 Page 1180

Tract 10E Survey No. 239
 Santa Fe Properties Development
 Company, Ltd. Book 2879, Page 510



SCALE: Horizontal: 1"=40'
 Vertical: 1"=5'

Contour Interval: N/A

DATE: JUNE 2012

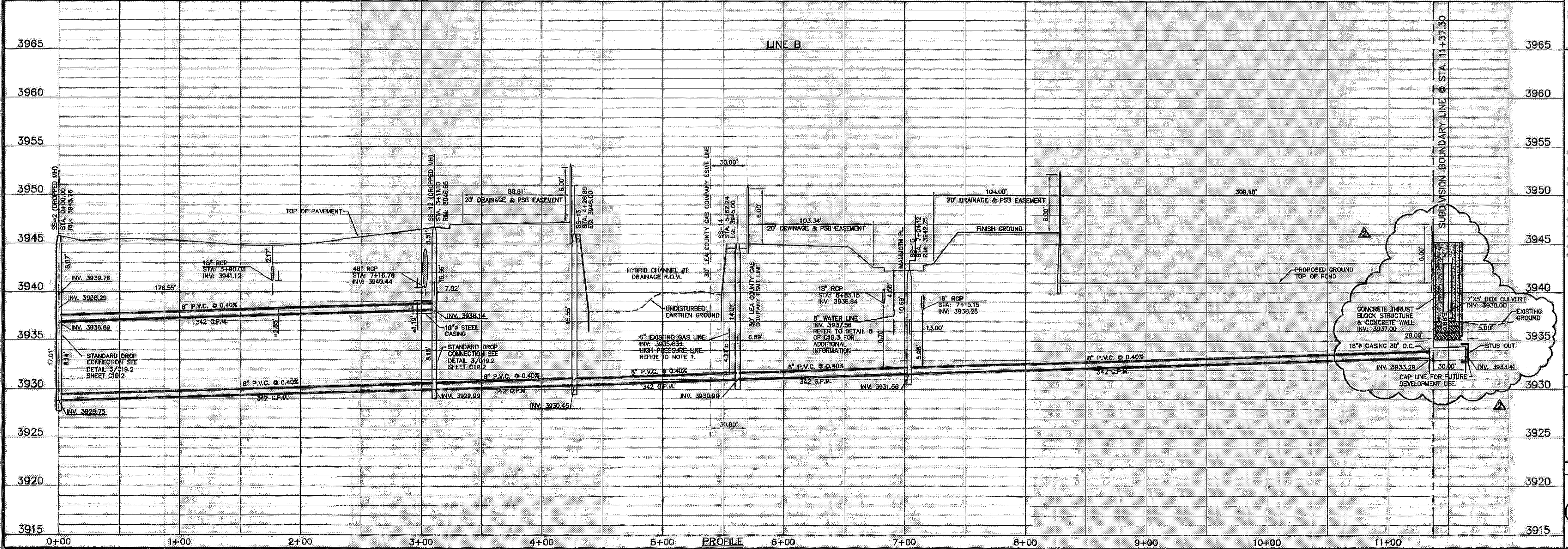
DESIGN BY: A.H.

DRAWN BY: J.M.

CHKD. BY: J.L.A.

APP'D. BY: A.H.

JOB NO. 2099-013-1-D



PROJECT TITLE

**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

**SANITARY SEWER
 PLAN & PROFILE
 LINE "B"**

SHEET NO.

C18.5R

RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013
 THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPWU PHASE II.
 REFERENCE SUBDIVISION PHASE II

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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

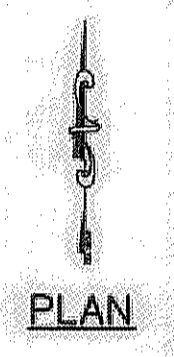
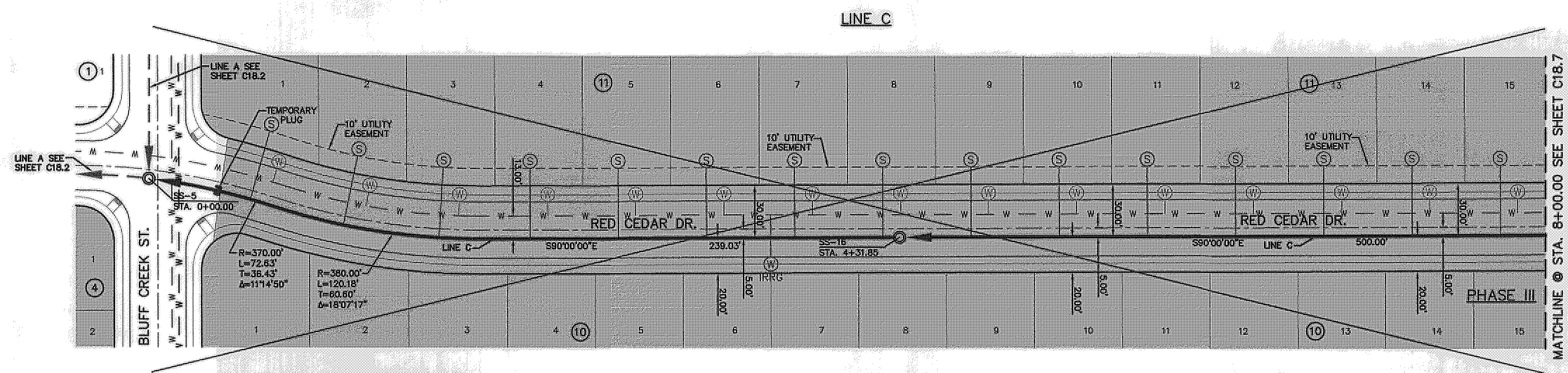
WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

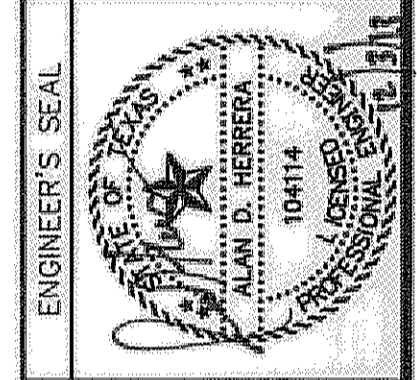
FOUND N.G.S. SURVEY MARKER STAMPED "CHNO 1980"
 3956.93 (CITY OF EL PASO VERTICAL DATUM)
 ELEVATION:
 3946.11 (NAD 83 DATUM)
 3946.78 (NGVD 29 DATUM)
 TIE TO THE PROJECT BENCHMARK IS NOD-50527L, 3.02083
 MILE MARKER 11.11, NEELIE D. MUNDY SURVEY NO. 235
 CORNER OF TRACT 11, NEELIE D. MUNDY SURVEY NO. 235

| DATE | REVISIONS | BY |
|------|-----------|----|
| | | |

CEA GROUP
 ENGINEERS • ARCHITECTS • PLANNERS
 Castaner Center @ Tremont
 4712 Woodrow Bann, Ste. F El Paso, TX 79924
 Office: 915.544.5232 Fax: 915.544.5233 www.ceagroup.net
 TEXAS PROFESSIONAL REGISTRATION NO. 494



- LEGEND:**
- ← PROPOSED DOUBLE PIGGY SANITARY SEWER LINES
 - ← PROPOSED SANITARY SEWER LINE
 - ← PROPOSED SANITARY SEWER LINE ON OTHER SHEETS
 - W PROPOSED WATER LINE
 - PROPOSED STORM SEWER
 - GAS EXISTING GAS LINE
 - ⊙ PROPOSED SEWER SERVICE
 - ⊙ PROPOSED WATER SERVICE

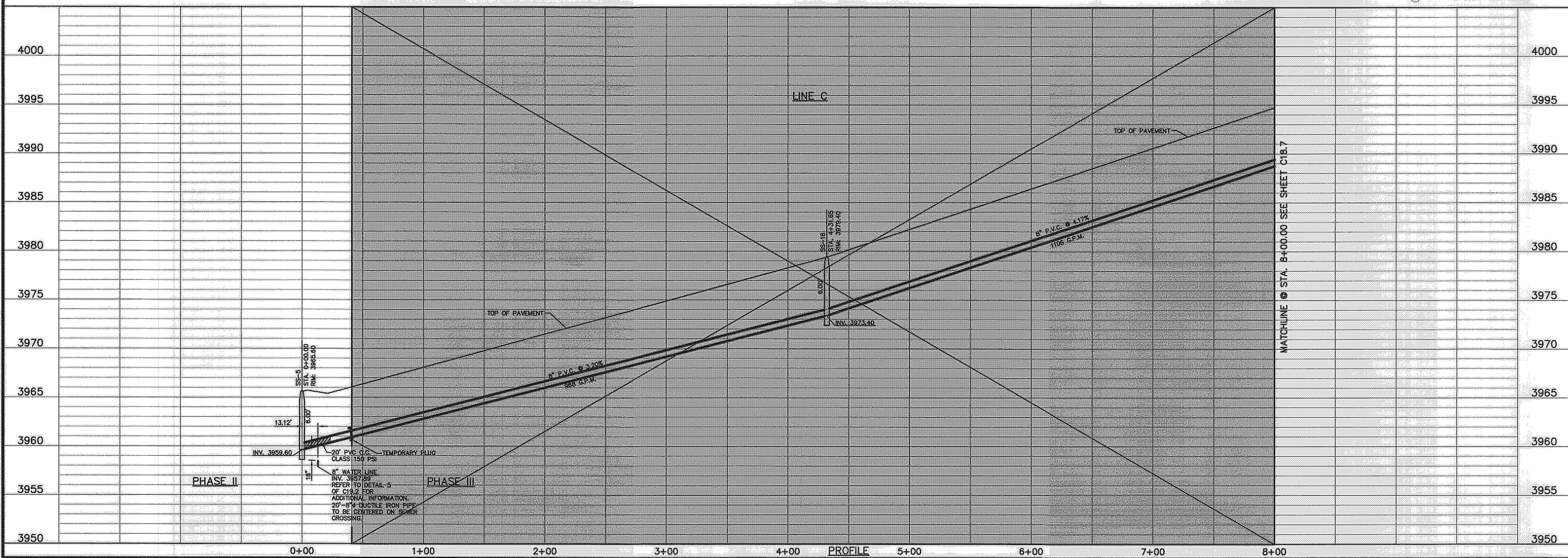


SCALE 1"=40'

Horizontal: 1"=40'
 Vertical: 1"=15'
 Contour Interval: N/A

DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APP'D. BY: A.H.

JOB No. 2050-013-1-D



PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 SANITARY SEWER
 PLAN & PROFILE
 LINE "C"

SHEET NO.
 C18.6

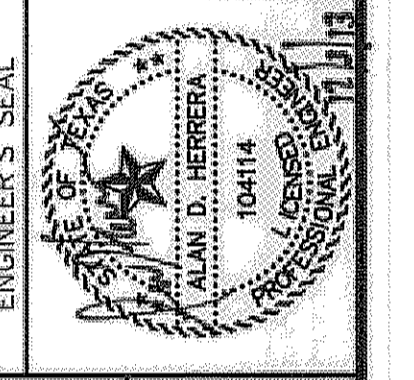
RECORD DRAWINGS
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 10/24/2013
 THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPMU PHASE II.
 REFERENCE SUBDIVISION PHASE II

UTILITY LOCATOR SERVICES
 EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 486-5244
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (915) 680-7200
 ONEOK PARTNERS (915) 595-6918
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750
 (AFTER HOURS) (915) 240-3220

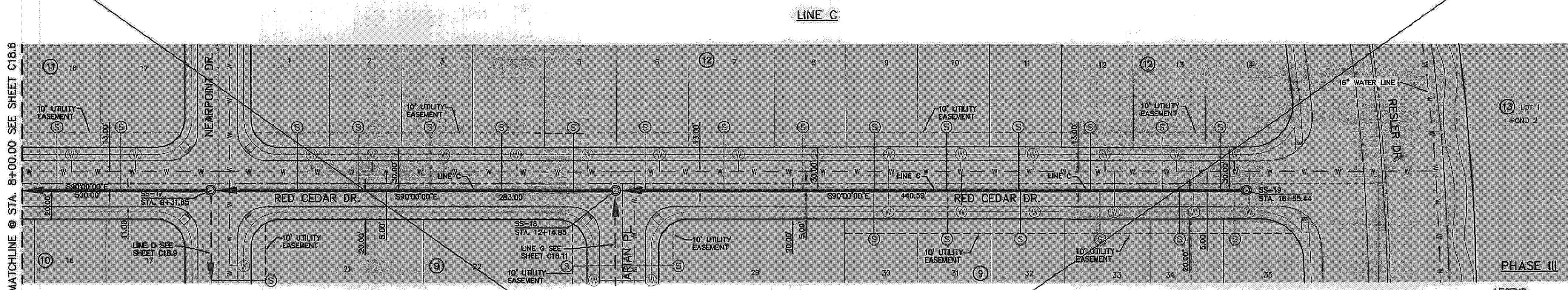
WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES — BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "GRID 1983"
 ELEVATION: 3946.11 (NAD 83 DATUM)
 SHOWING
 NE TO THE PROPOSED 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239
 DATE: _____ REVISIONS: _____ BY: _____

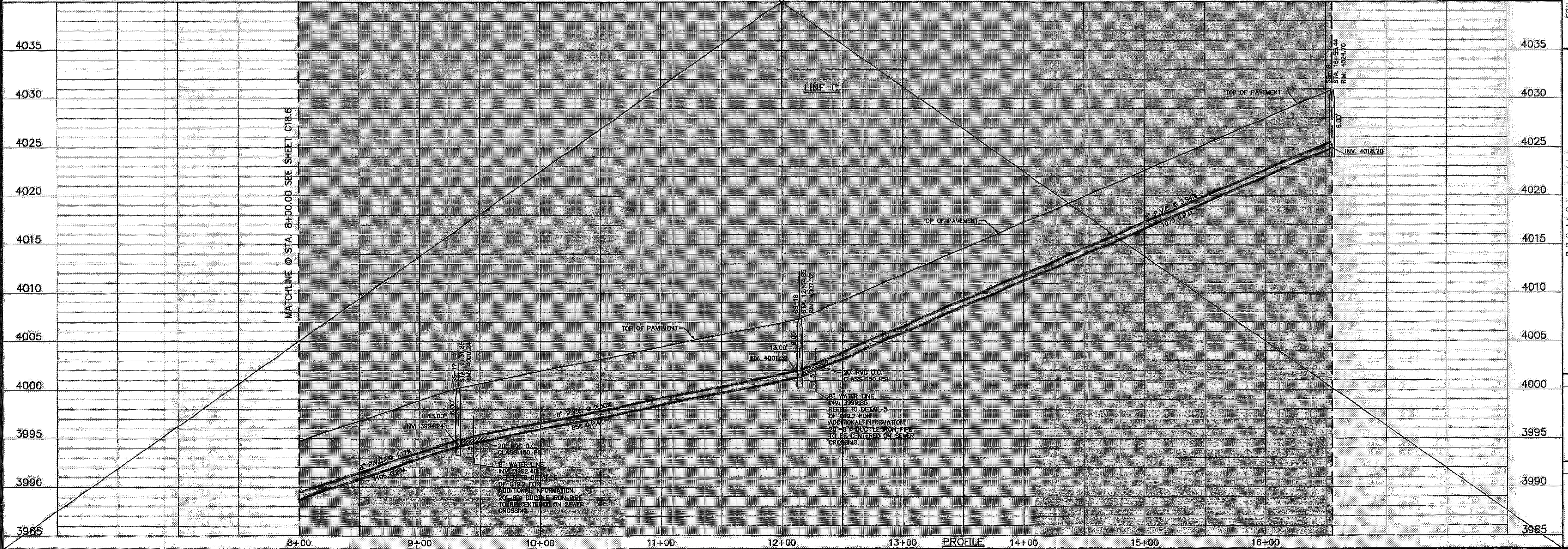
cea
 ENGINEERS • ARCHITECTS • PLANNERS
 Casner Center @ Transmountain
 4772 Woodrow Bean, Ste. F El Paso, TX 79924
 Phone: 915.833.2322 Fax: 915.834.3226 www.ceagroup.com
 Texas Professional Registration No. 0484



SCALE: 1"=40'
 Horizontal: 1"=5'
 Vertical: Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 CHECK BY: A.H.
 APPROV. BY: A.H.
 JOB No. 2010-013-LD



- LEGEND:**
- PROPOSED DOUBLE PIGGY SANITARY SEWER LINES
 - PROPOSED SANITARY SEWER LINE
 - PROPOSED SANITARY SEWER LINE ON OTHER SHEETS
 - PROPOSED WATER LINE
 - PROPOSED STORM SEWER
 - EXISTING GAS LINE
 - PROPOSED SEWER SERVICE
 - PROPOSED WATER SERVICE



PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**SANITARY SEWER
 PLAN & PROFILE
 LINE "C"**

SHEET NO.
C18.7

RECORD DRAWINGS
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 10/24/2013

* ACTUAL DIMENSION VARIES WITH ACTUAL THICKNESS OF THE PIPE. DIMENSION SHOWN IS FROM INVERT OF RCP PIPE TO TOP OF SANITARY SEWER.

UTILITY LOCATOR SERVICES

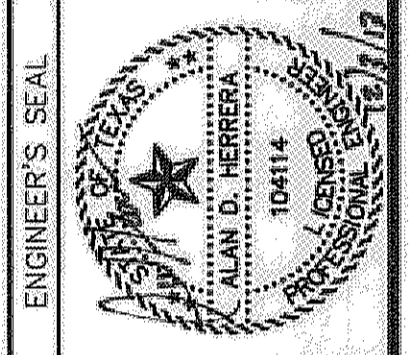
| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 595-6818 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

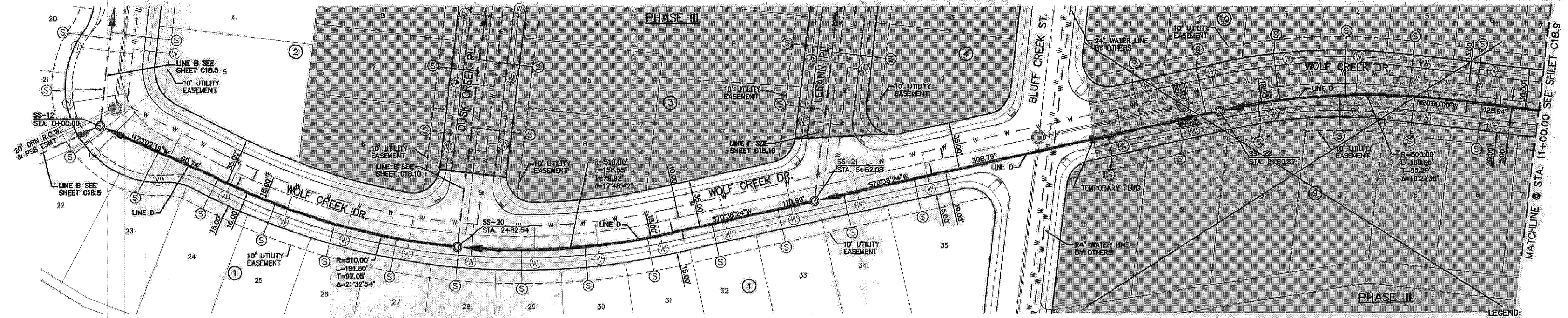
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 ELEVATION: 3065.43 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NAVD 88 DATUM)
 SEE TO THE PROJECT BENCHMARK IS NAD83/2011 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11; NELLIE D. HUNDT SURVEY No. 239
 DATE: _____ BY: _____

ceagroup
 engineers • architects • planners
 Casstar Center @ Transmountain
 4712 Woodrow Bean Ste. F, El Paso, TX 79904
 (915) 791-1111
 TEXAS FIRM REGISTRATION NO. 4664

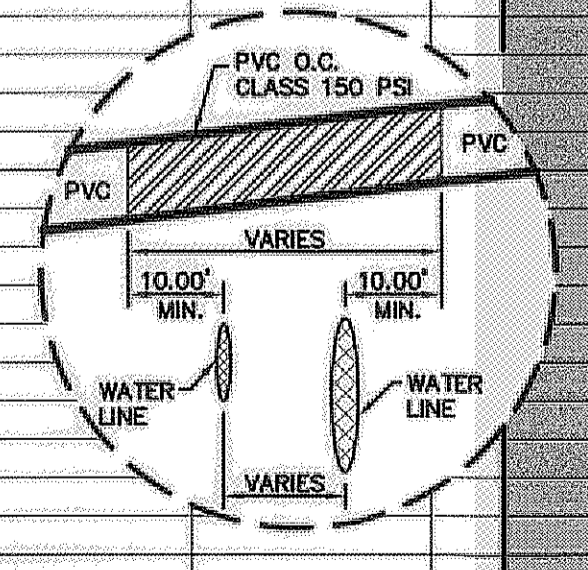
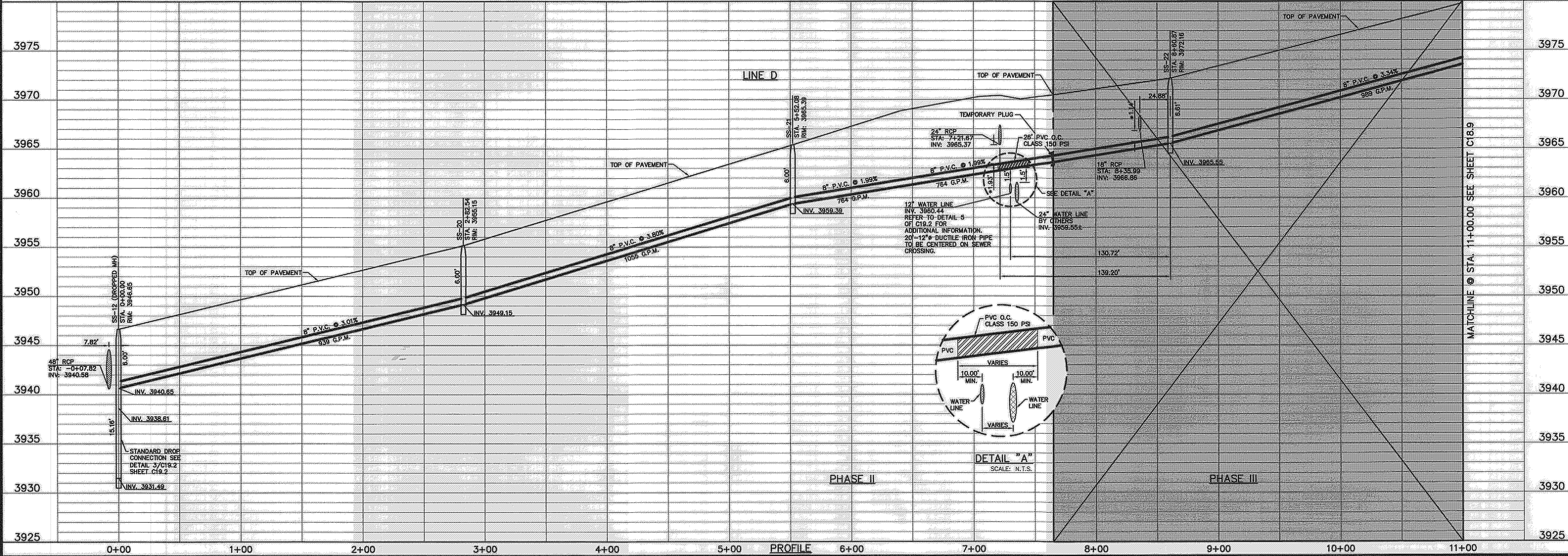
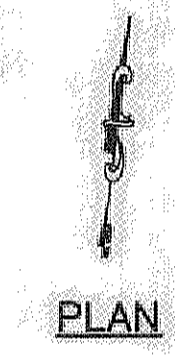


SCALE
 Horizontal: 1"=40'
 Vertical: 1"=5'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHECK BY: J.L.A.
 APPROVED BY: A.H.
 JOB No. 2010-013-1-D

LINE D
 THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPWU PHASE II. REFERENCE SUBDIVISION PHASE II.



- LEGEND:**
- PROPOSED DOUBLE PIGGY SANITARY SEWER LINES
 - PROPOSED SANITARY SEWER LINE
 - PROPOSED SANITARY SEWER LINE ON OTHER SHEETS
 - PROPOSED WATER LINE
 - PROPOSED STORM SEWER
 - EXISTING GAS LINE
 - PROPOSED SEWER SERVICE
 - PROPOSED WATER SERVICE



PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 SANITARY SEWER
 PLAN & PROFILE
 LINE "D"

SHEET NO.
 C18.8

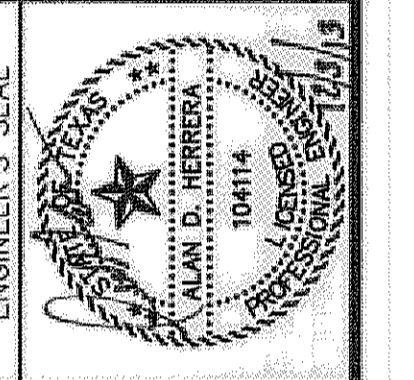
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 10/24/2013
 THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPMU PHASE II. REFERENCE SUBDIVISION PHASE II

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 (915) 772-1123
 TIME WARNER COMMUNICATIONS (915) 680-7200
 TEXAS GAS SERVICE (915) 595-6918
 ONEOK PARTNERS (800) 852-3786
 AT&T
 U.S. SPRINT TELECOMM (800) 521-0579
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750 (AFTER HOURS)
 (915) 240-3220

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
 FOUND IN U.S. SURVEY WATER STATION "C" AND "B&C" ELEVATION: 3946.11 (NAVD 88 DATUM)
 3946.11 (NAVD 88 DATUM)
 TIE TO THE PROJECT BENCHMARK IS 100.00 FEET FROM A 1/2" ACH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, MELLIE D. MURPHY SURVEY NO. 239
 DATE: _____ BY: _____
 REVISIONS: _____

o e a
 ENGINEERS • ARCHITECTS • PLANNERS
 Castner Center @ Transmountain
 4712 Woodrow Beach, Ste. F El Paso, TX 79954
 OEA REG. NO. 104114
 TEXAS REG. NO. 104114



SCALE
 Horizontal: 1"=40'
 Vertical: 1"=5'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APPVD. BY: A.H.
 JOB No.: 2050-013-LD

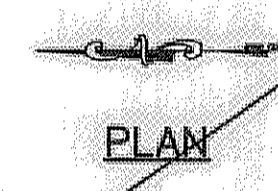
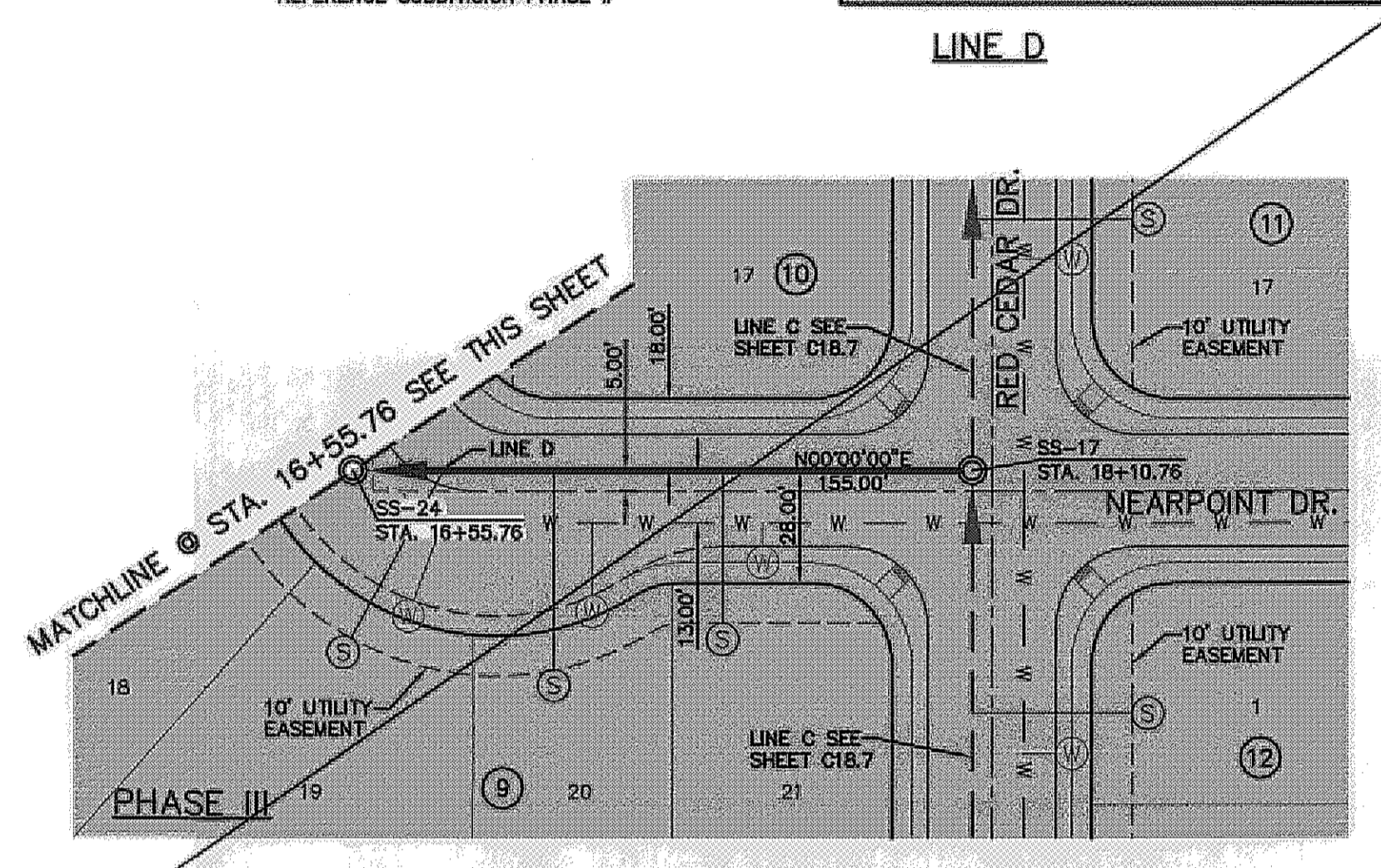
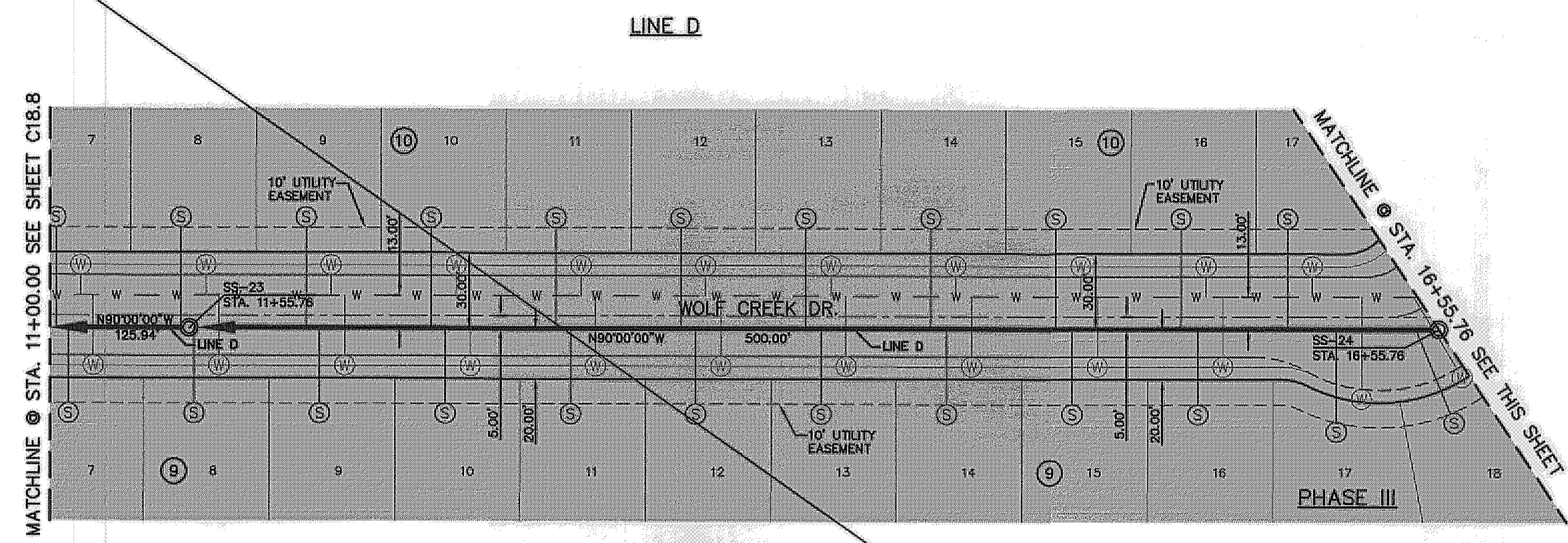
PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE

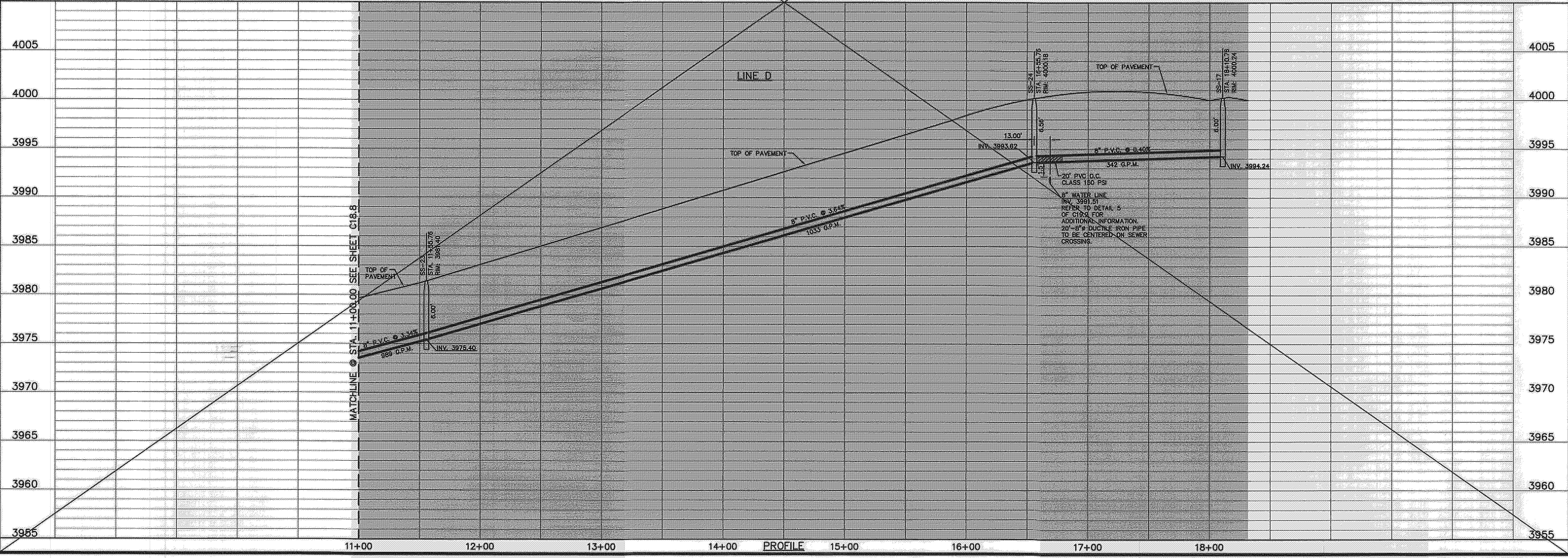
SANITARY SEWER
 PLAN & PROFILE
 LINE "D"

SHEET NO.

C18.9



- LEGEND:**
- ← PROPOSED DOUBLE PIGGY SANITARY SEWER LINES
 - ← PROPOSED SANITARY SEWER LINE
 - ← PROPOSED SANITARY SEWER LINE ON OTHER SHEETS
 - W PROPOSED WATER LINE
 - PROPOSED STORM SEWER
 - EXISTING GAS LINE
 - ⊙ PROPOSED SEWER SERVICE
 - ⊙ PROPOSED WATER SERVICE



11+00 12+00 13+00 14+00 PROFILE 15+00 16+00 17+00 18+00

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 REFERENCE SUBDIVISION PHASE II

UTILITY LOCATOR SERVICES

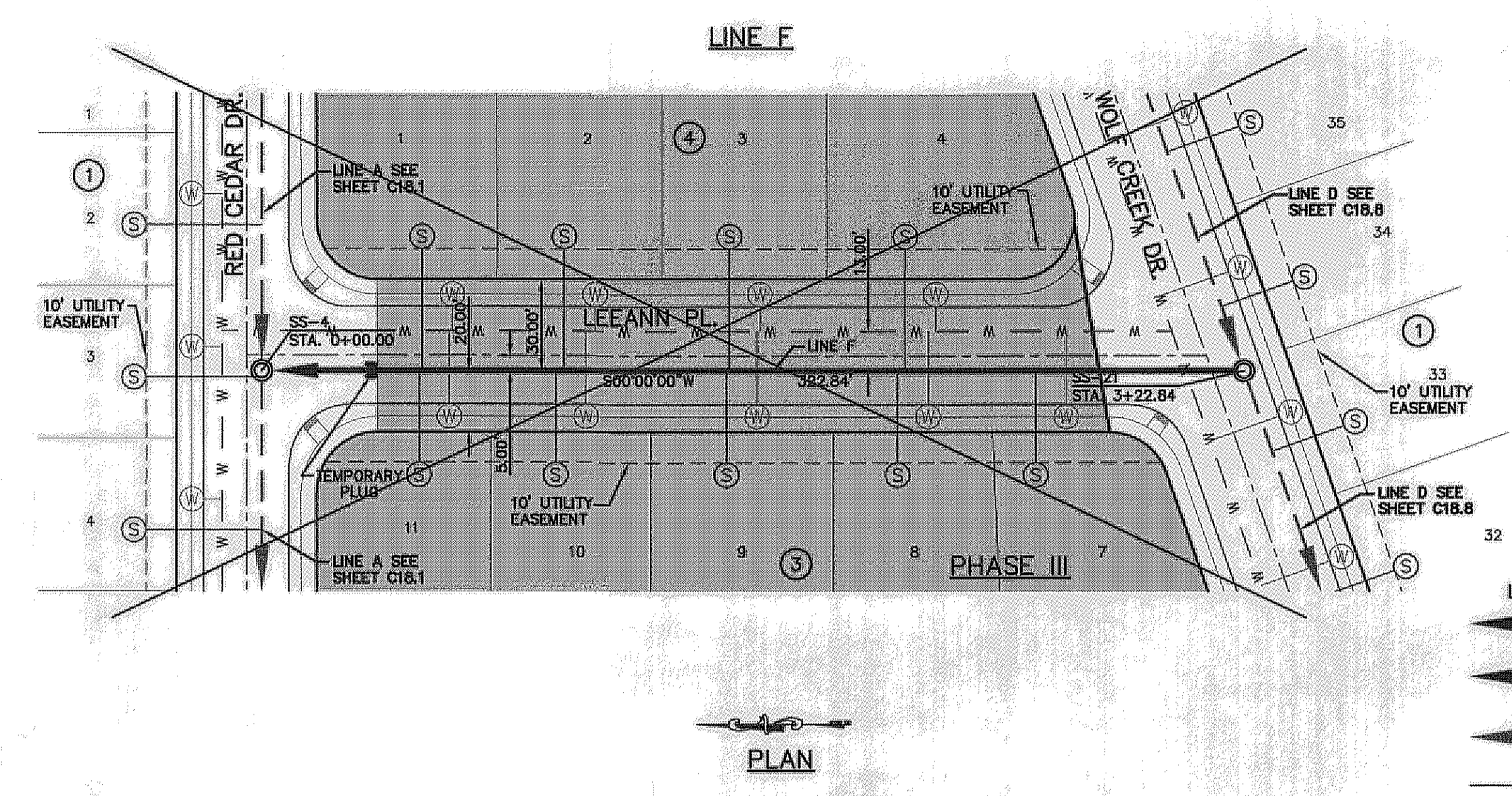
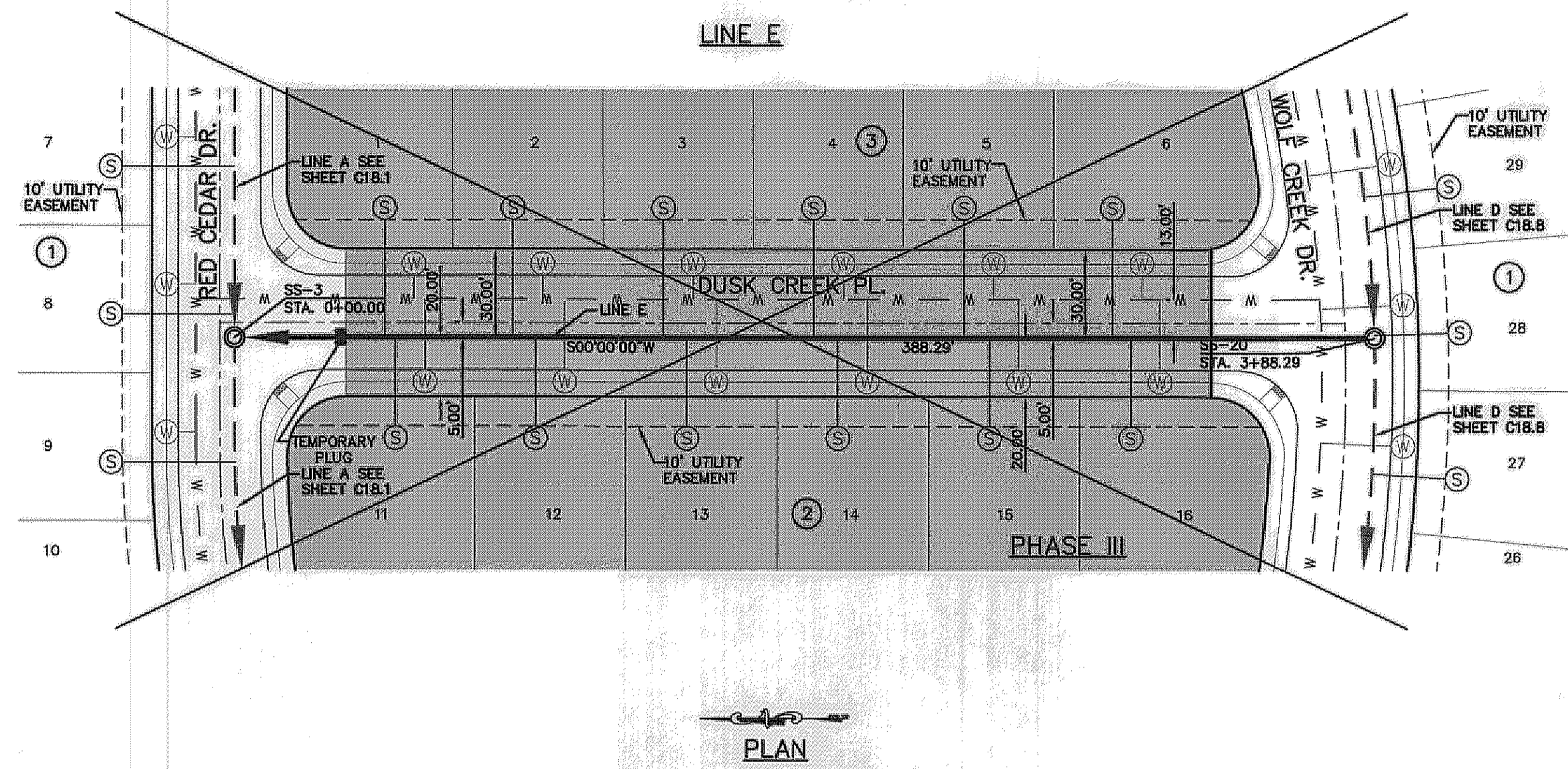
| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-3500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| ONEOK PARTNERS | (915) 985-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

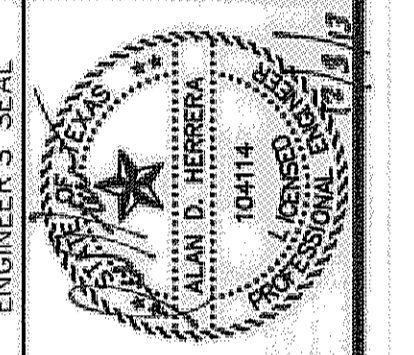
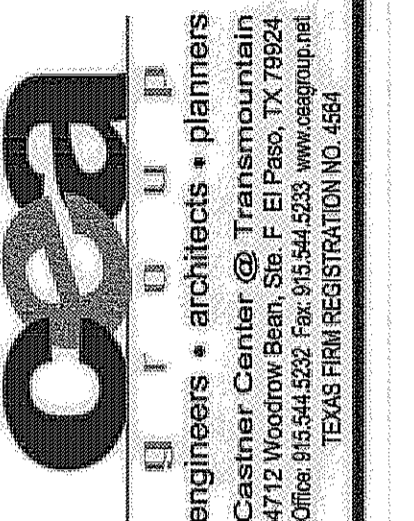
REFERENCES - BENCHMARKS

FOUND N.G.S. SURVEY MARKER STATIONED "CHINO 1984" ELEVATION: 3946.11 (NAVD 88 DATUM)
 SHOWED CITY OF EL PASO VERTICAL DATUM
 3946.11 (NAVD 88 DATUM)
 3945.78 (NAVD 88 DATUM)
 BE TO THE PROX. 1/2" INCH BEAR FOUND FOR THE NORTHEAST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

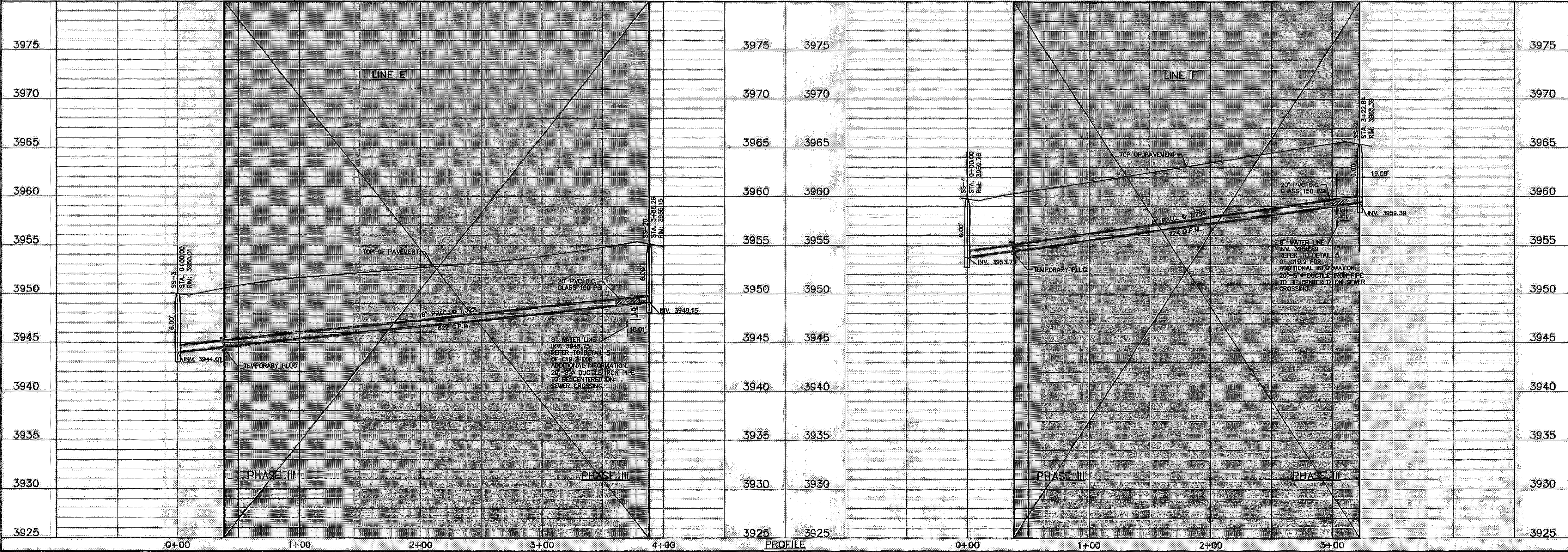
| DATE | REVISIONS | BY |
|------|-----------|----|
| | | |



- LEGEND:**
- ← PROPOSED DOUBLE PIGGY SANITARY SEWER LINES
 - ← PROPOSED SANITARY SEWER LINE
 - ← PROPOSED SANITARY SEWER LINE ON OTHER SHEETS
 - W — PROPOSED WATER LINE
 - PROPOSED STORM SEWER
 - GAS — EXISTING GAS LINE
 - ⊙ PROPOSED SEWER SERVICE
 - ⊙ PROPOSED WATER SERVICE



SCALE
 Horizontal: 1"=40'
 Vertical: 1"=5'
 Contour Interval: N/A
DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.M.
APP'D. BY: A.H.
 JOB No. 2010-013-1-D



PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 SANITARY SEWER
 PLAN & PROFILE
 LINE "E"

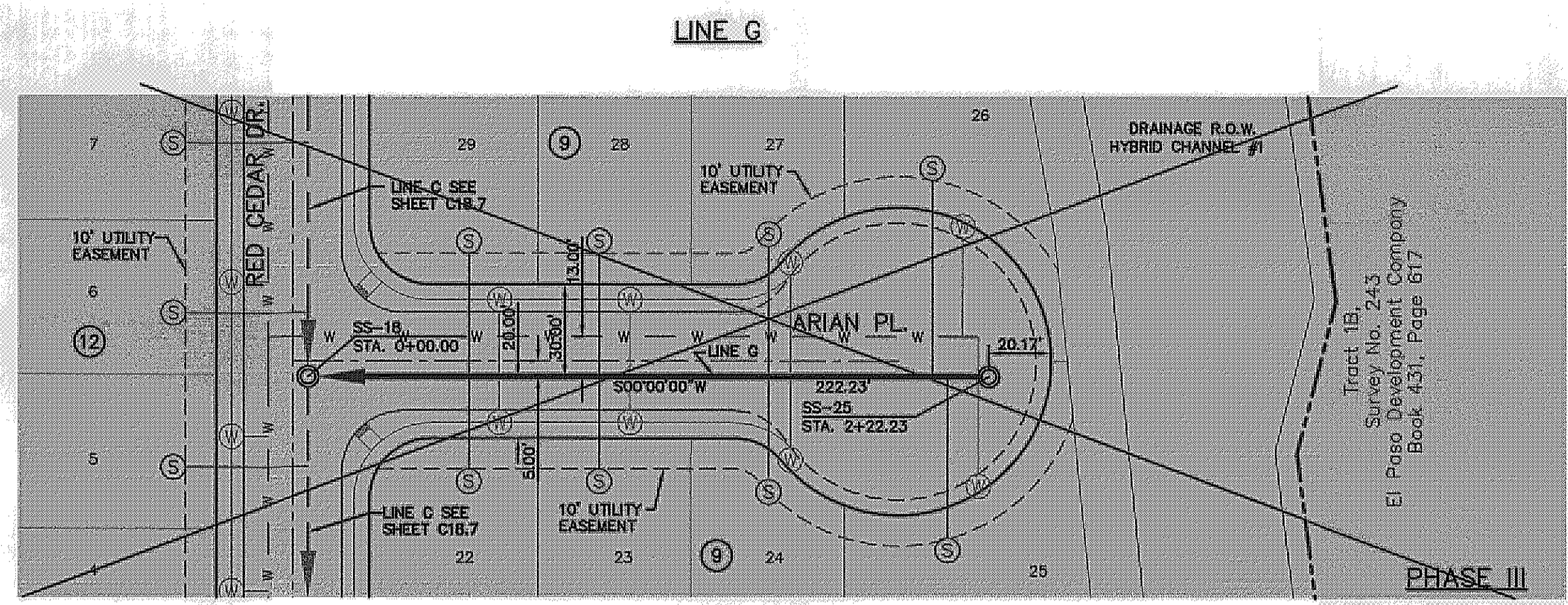
SHEET NO.
 C18.10

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 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. OEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013
 THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPMU PHASE II.
 REFERENCE SUBDIVISION PHASE II

UTILITY LOCATOR SERVICES
 EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 498-5244
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (915) 680-7200
 ONEOK PARTNERS (915) 959-6918
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750
 (AFTER HOURS) (915) 240-3220

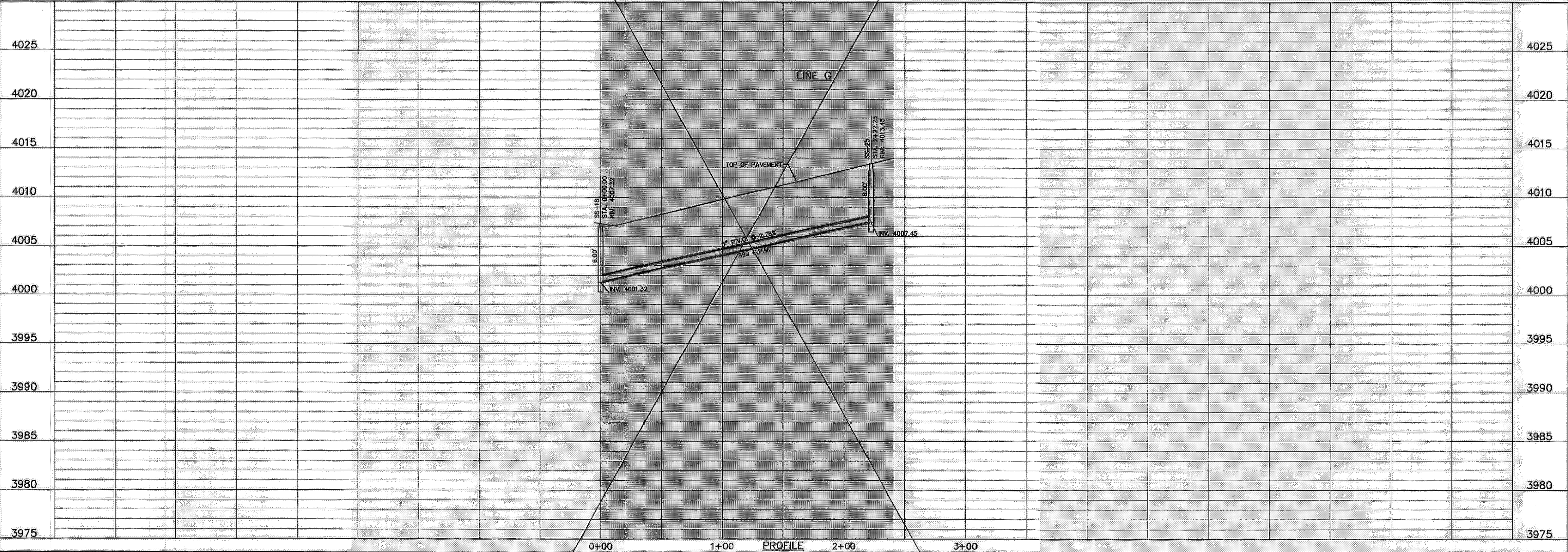
WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
 FOUND N.S.S. SURVEY MARKER STATION "CHINO 1891" ELEVATION: 3946.11 (NAVD 88 DATUM) SHOWING
 TIE TO THE PROJECT BENCHMARK IS 10050327E, 3,020.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY NO. 239
 DATE: _____ BY: _____ REVISIONS: _____

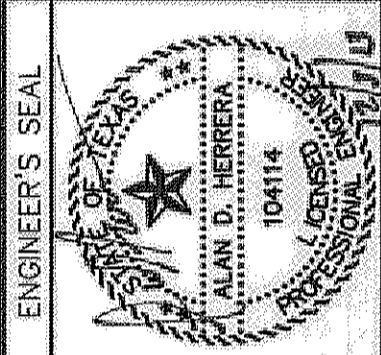


PLAN

- LEGEND:**
- ← PROPOSED DOUBLE PIGGY SANITARY SEWER LINES
 - ← PROPOSED SANITARY SEWER LINE
 - ← PROPOSED SANITARY SEWER LINE ON OTHER SHEETS
 - W PROPOSED WATER LINE
 - PROPOSED STORM SEWER
 - EXISTING GAS LINE
 - ⊙ PROPOSED SEWER SERVICE
 - ⊙ PROPOSED WATER SERVICE



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 engineers • architects • planners
 Castner Center @ Transmountain
 6712 Hillside Drive, El Paso, TX 79924
 (915) 834-4533
 TEXAS PRR REGISTRATION NO. 494



SCALE
 Horizontal: 1"=40'
 Vertical: 1"=5'
 Contour Interval: 1/4'
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.L.A.
 CHKD. BY: J.L.A.
 APPVD. BY: A.H.
 JOB No. 2010-013-LD

PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

**SANITARY SEWER
 PLAN & PROFILE
 LINE "G"**

SHEET NO.

C18.11

RECORD DRAWINGS

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10/24/2013

THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPWU PHASE II.

* ACTUAL DIMENSION VARIES WITH ACTUAL THICKNESS OF THE PIPE. DIMENSION SHOWN IS FROM INVERT OF RCP PIPE TO TOP OF SANITARY SEWER.

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 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

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1-800-344-8377

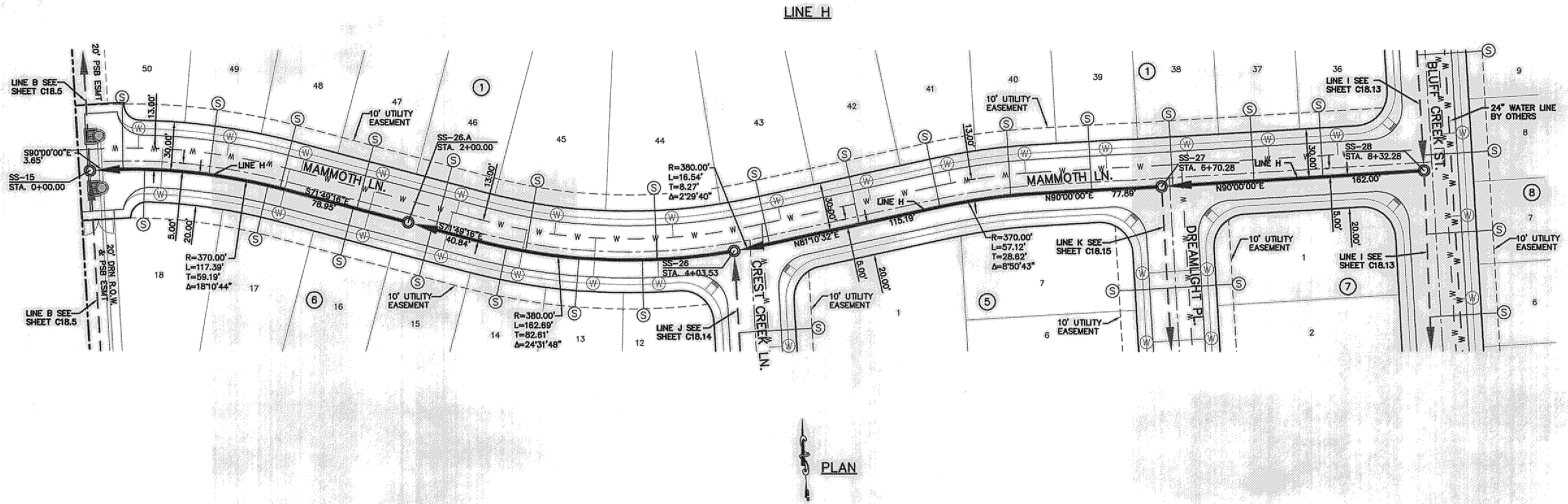
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES — BENCHMARKS

FOUND N.G.S. SURVEY MARKER STAMPED "CHIND 1980"
ELEVATION: 3943.78 (CITY OF EL PASO VERTICAL DATUM)
SHOWING: 3946.11 (NAVD 88 DATUM)
3945.78 (UCSD 29 DATUM)
TIE TO THE PROJECT: 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLE D. MUNDY SURVEY No. 239

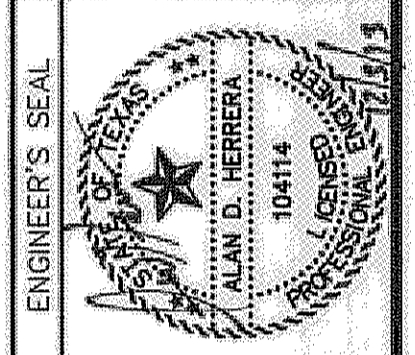
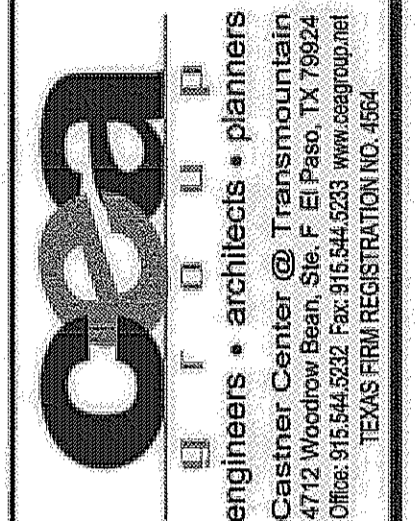
DATE: _____ REVISIONS: _____ BY: _____

Tract 10E1 Survey No. 239
Santa Fe Properties Development
Company, Ltd. Book 2879, Page 510



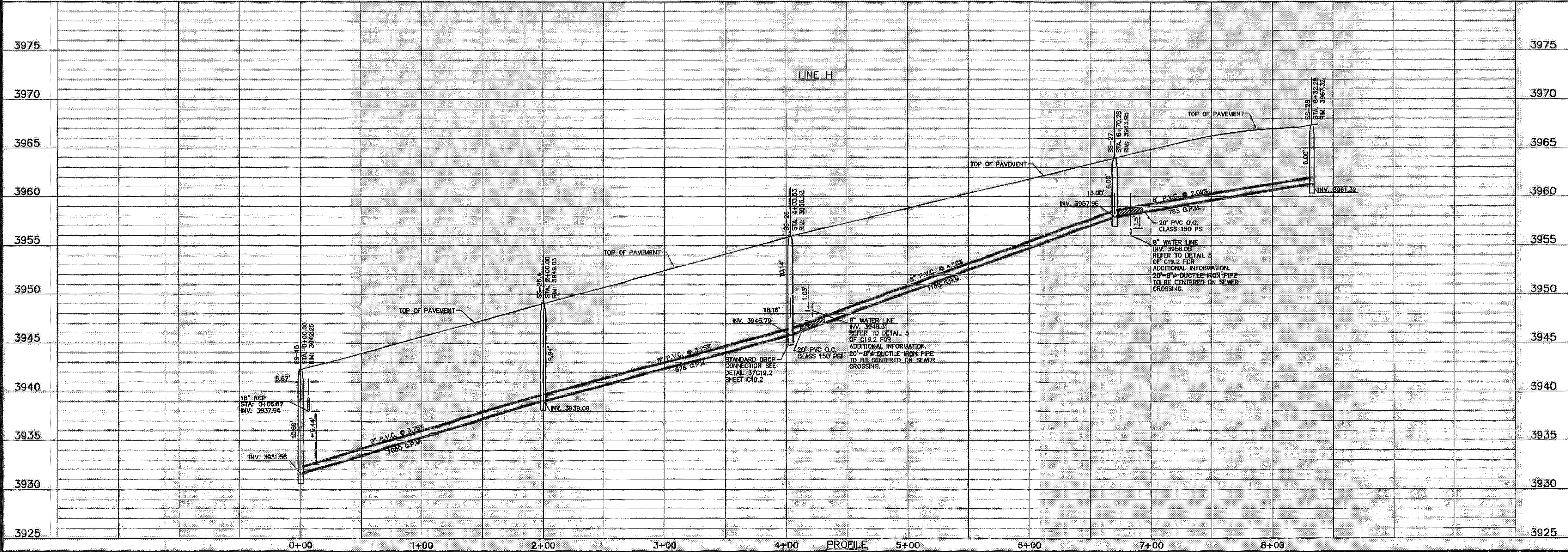
LEGEND:

| | |
|--|--|
| | PROPOSED DOUBLE PIGGY SANITARY SEWER LINES |
| | PROPOSED SANITARY SEWER LINE |
| | PROPOSED SANITARY SEWER LINE ON OTHER SHEETS |
| | PROPOSED WATER LINE |
| | PROPOSED STORM SEWER |
| | EXISTING GAS LINE |
| | PROPOSED SEWER SERVICE |
| | PROPOSED WATER SERVICE |



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

DATE: JUNE 2012
DESIGN BY: A.H.
CHECKED BY: A.H.
APPROVED BY: A.H.
JOB No. 2010-013-LD



PROJECT TITLE

DESERT SPRINGS UNIT ONE
PHASE I
SUBDIVISION IMPROVEMENTS

SHEET TITLE

SANITARY SEWER
PLAN & PROFILE
LINE "H"

SHEET NO.

C18.12

RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013

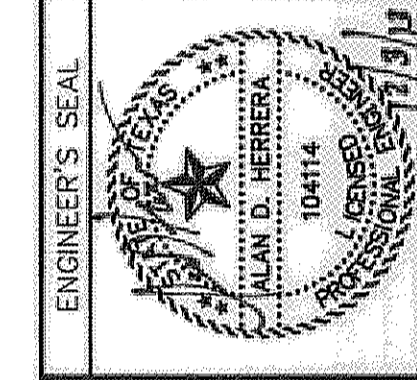
* ACTUAL DIMENSION VARIES WITH ACTUAL THICKNESS OF THE PIPE. DIMENSION SHOWN IS FROM INVERT OF RCP PIPE TO TOP OF SANITARY SEWER.

UTILITY LOCATOR SERVICES
 EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 486-5244
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (915) 680-7200
 ONEOK PARTNERS (915) 695-6918
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750
 (AFTER HOURS) (915) 240-3220

WARNING!
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 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
 FOUND N.C.S. SURVEY MARKER STATION "CANDID 1881" ELEVATION: 3945.83 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 3946.11 (NAVD 88 DATUM)
 TIE TO THE PROJECT BENCHMARK IS 1005.00' ±, 3.02083 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. HUNDY SURVEY No. 239
 DATE: _____ BY: _____ REVISIONS: _____

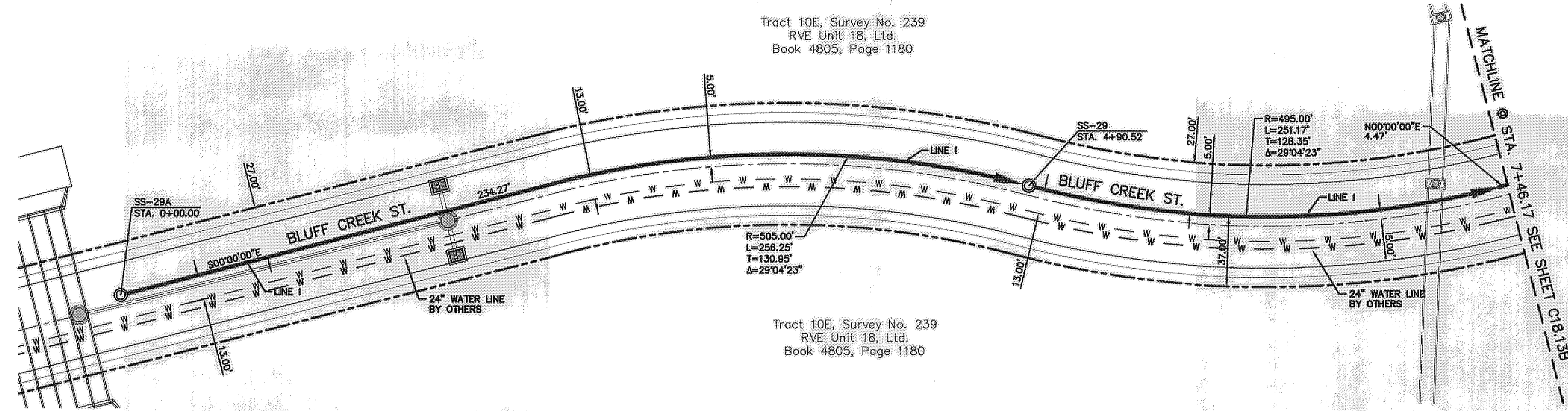
osa
 engineers • architects • planners
 Casner Center @ Transmountain
 4775 Woodrow Wilson, Suite 1000
 Dallas, TX 75242
 214.751.6500
 TEXAS FIRM REGISTRATION NO. 496



SCALE
 Horizontal: 1" = 40'
 Vertical: 1" = 5'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APPVD. BY: A.H.
 JOB No. 2050-013-LD

LINE 1

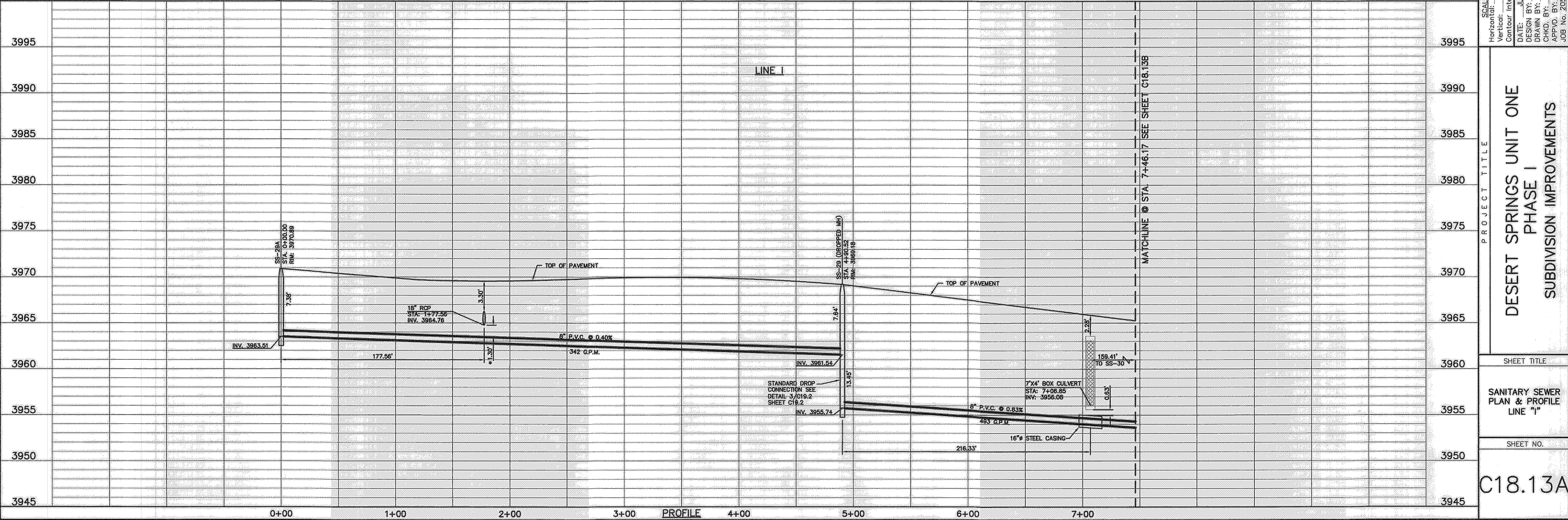
Tract 10E, Survey No. 239
 RVE Unit 18, Ltd.
 Book 4805, Page 1180



Tract 10E, Survey No. 239
 RVE Unit 18, Ltd.
 Book 4805, Page 1180

PLAN

- LEGEND:**
- ← PROPOSED DOUBLE PIGGY SANITARY SEWER LINES
 - ← PROPOSED SANITARY SEWER LINE
 - PROPOSED SANITARY SEWER LINE ON OTHER SHEETS
 - W - PROPOSED WATER LINE
 - PROPOSED STORM SEWER
 - GAS
 - ⊙ PROPOSED SEWER SERVICE
 - ⊙ PROPOSED WATER SERVICE



PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE

SANITARY SEWER
 PLAN & PROFILE
 LINE "1"

SHEET NO.

C18.13A

GENERAL NOTES:
 * ACTUAL DIMENSION VARIES WITH ACTUAL THICKNESS OF THE PIPE. DIMENSION SHOWN IS FROM INVERT OF RCP PIPE TO TOP OF SANITARY SEWER.

1. THERE IS A HIGH PRESSURE GAS LINE LOCATED WITHIN THE 30' TGS EASEMENT AND 30' LEA COUNTY GAS COMPANY EASEMENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK. SERVICE SHALL BE PROVIDED TO USER AT ALL TIMES. IN ADDITION, CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR ON THIS LINE. IT IS HIGHLY RECOMMENDED (IF NOT, NEEDED) THAT A REPRESENTATIVE BE PRESENT DURING THESE CONSTRUCTION ACTIVITIES.

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 |
| ONEOK PARTNERS | (915) 595-8918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 821-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING!
BEFORE YOU DIG

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 1-800-DIG-TESS
 1-800-344-8377

FOR FIELD LOCATING EXISTING UTILITIES

RECORD DRAWINGS

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10/24/2013

REFERENCES - BENCHMARKS

CONUS N.G.S. SURVEY MARKER STATION "CANO 188" ELEVATION: 3836.5 (CITY OF EL PASO VERTICAL DATUM SHOWN)

3946.1 (NAVD 83 DATUM)

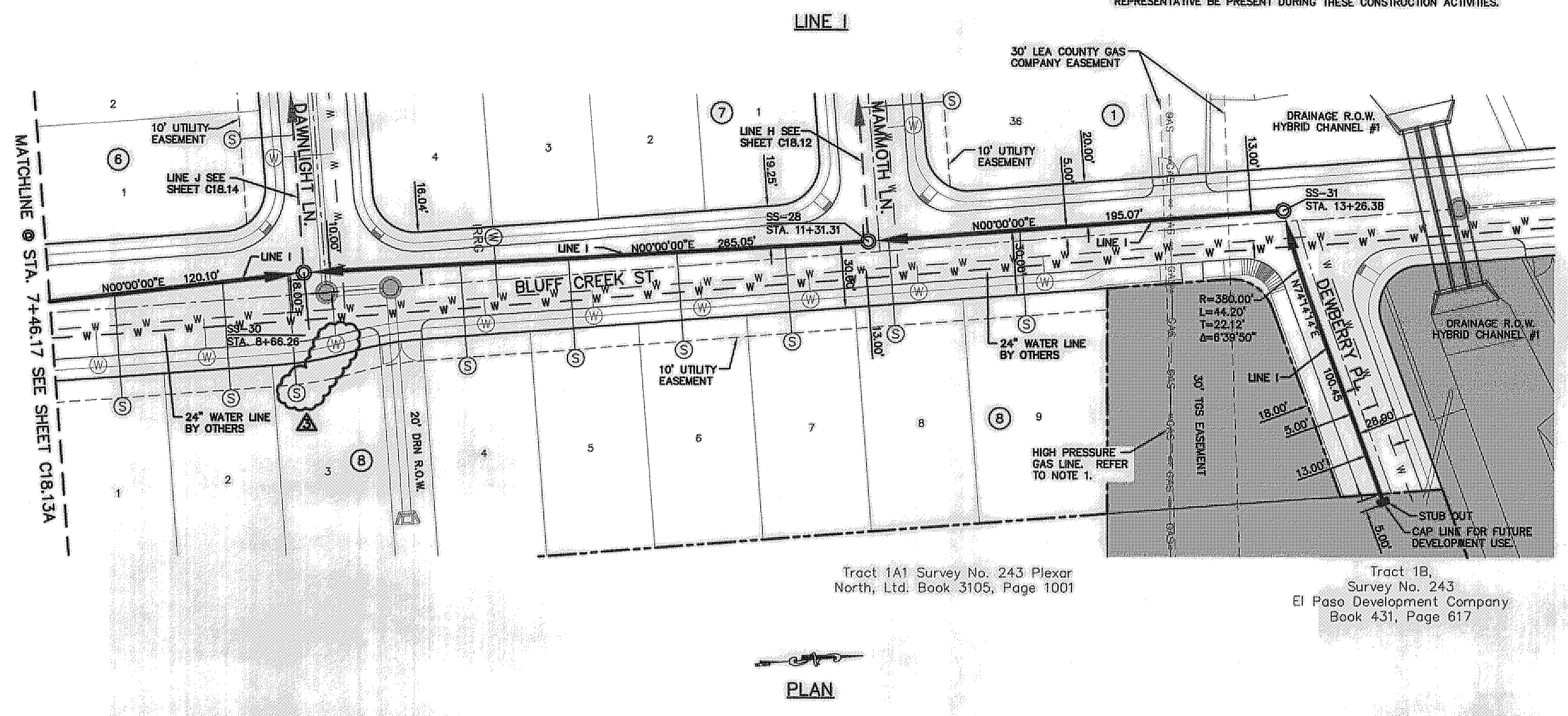
TIE TO THE PROJECT BENCHMARK IS 1002.637E, 3.02083 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239

DATE: _____ BY: _____

REVISIONS: _____

BY: _____

ADH



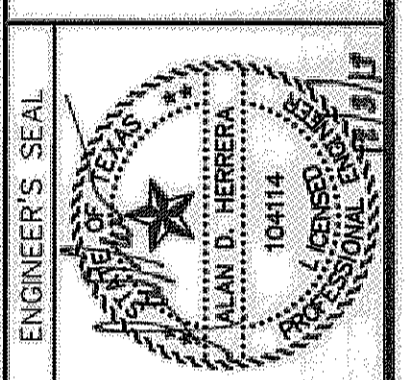
LEGEND:

- PROPOSED DOUBLE PIGGY SANITARY SEWER LINES
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY SEWER LINE ON OTHER SHEETS
- PROPOSED WATER LINE
- PROPOSED STORM SEWER
- EXISTING GAS LINE
- PROPOSED SEWER SERVICE
- PROPOSED WATER SERVICE

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 OEA GROUP, INC. (Professional Seal)
 TEXAS REG. REGISTRATION NO. 494



SCALE

Horizontal: 1"=40'
 Vertical: 1"=5'

Contour Interval: N/A

DATE: JUNE 2012

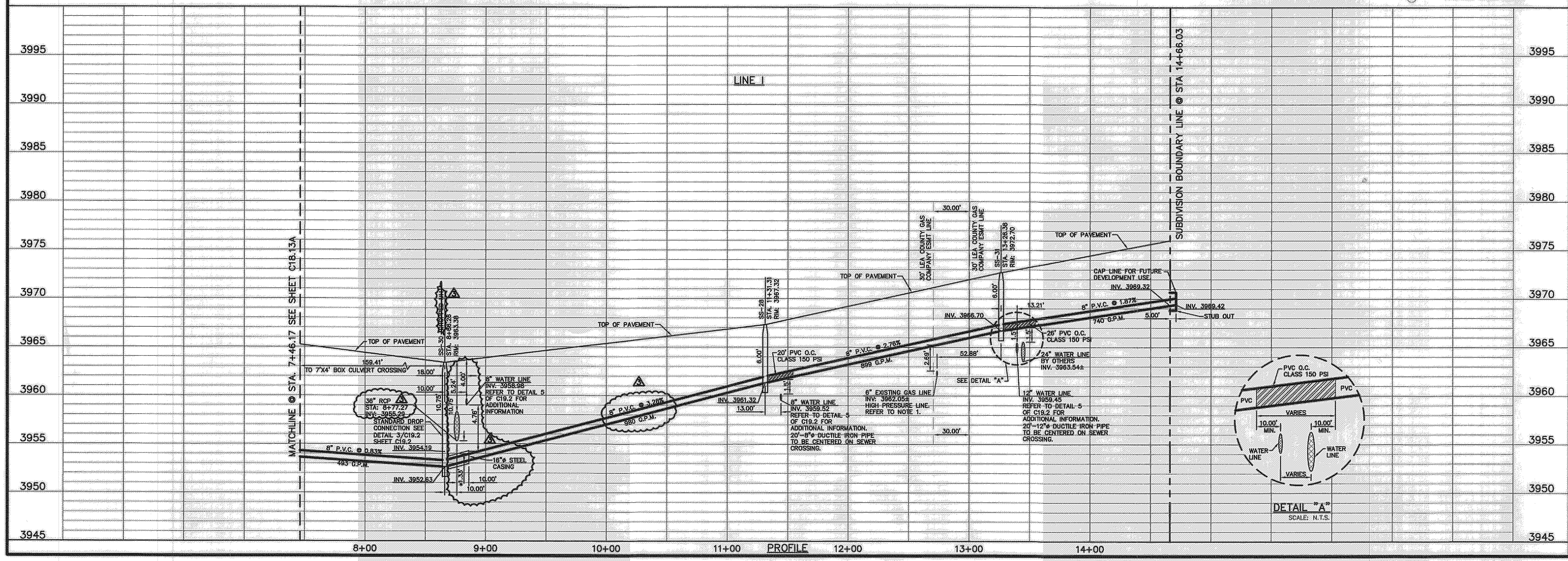
DESIGN BY: A.H.

DRAWN BY: J.M.

CHKD. BY: J.L.A.

APP'D. BY: A.H.

JOB No. 2050-013-LD



PROJECT TITLE

DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

SHEET TITLE

SANITARY SEWER
 PLAN & PROFILE
 LINE "1"

SHEET NO.

C18.13B
 R

RECORD DRAWINGS
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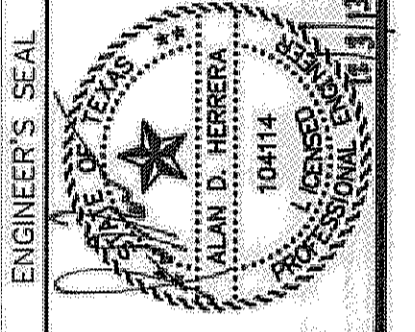
* ACTUAL DIMENSION VARIES WITH ACTUAL THICKNESS OF THE PIPE. DIMENSION SHOWN IS FROM INVERT OF RCP PIPE TO TOP OF SANITARY SEWER.

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) 600-7200
 ONEOK PARTNERS (915) 695-6918
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579
 CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (915) 621-6750
 (AFTER HOURS) (915) 240-3220

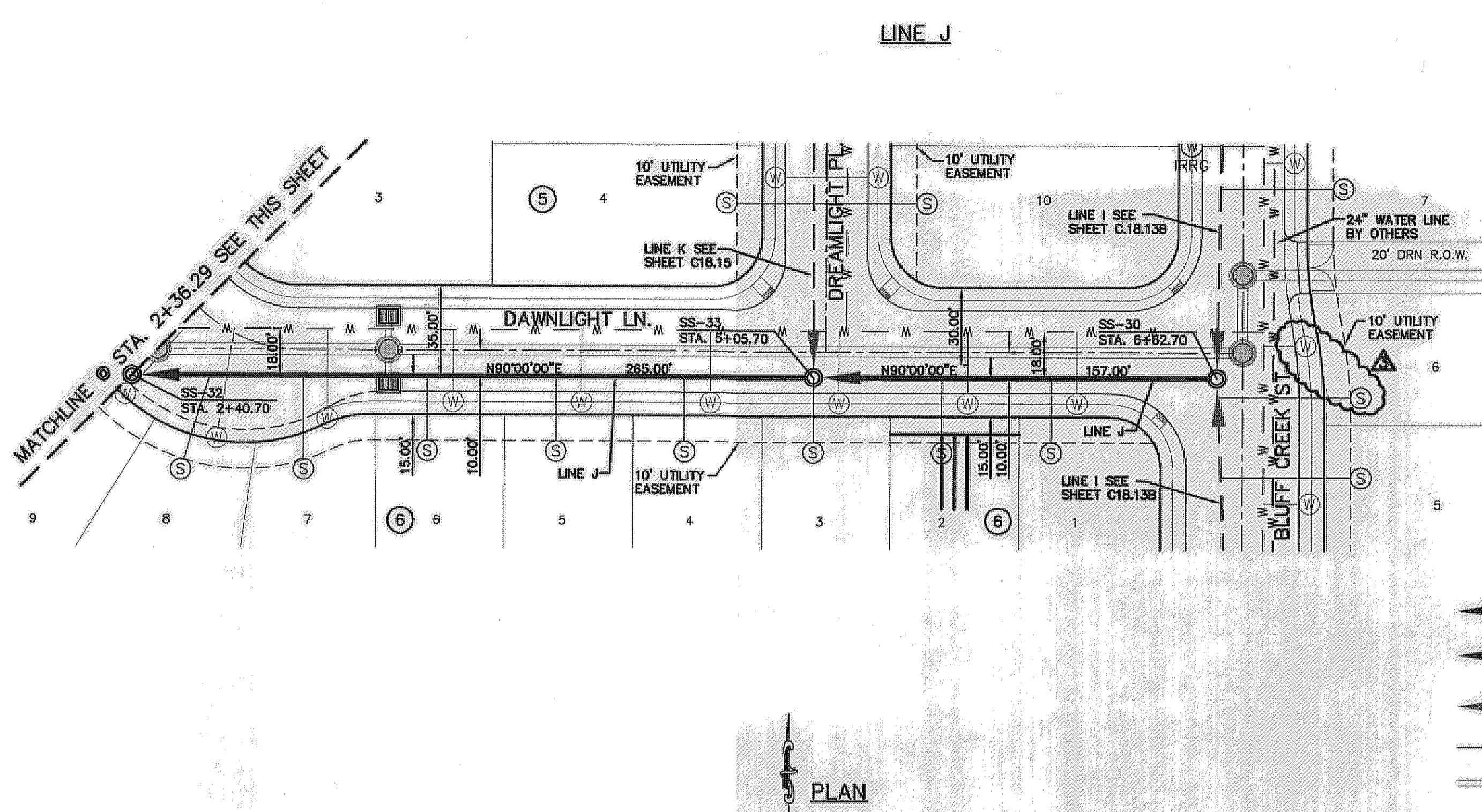
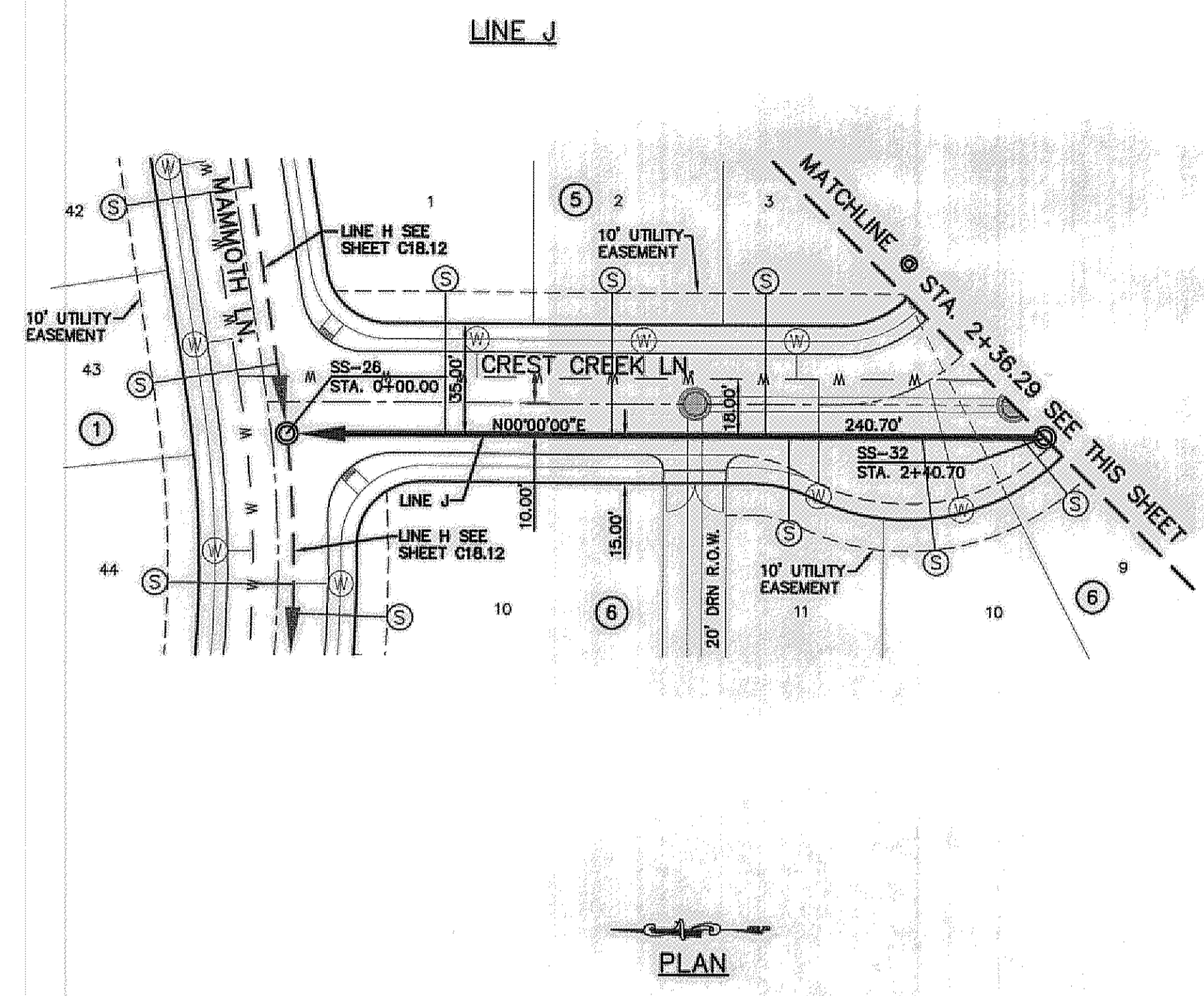
WARNING!
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 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
 FOUND N.A.S. SURVEY MARKER STAMPED "NOV 1897"
 ELEVATION: 3935.83 (CITY OF EL PASO VERTICAL DATUM SHOWN)
 (NAVD 88 DATUM)
 TIE TO THE PROJECT BENCHMARK IS N205°02'42"E, 4320.83 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT T1, VELLIE D. MANDY SURVEY NO. 238
 DATE: _____ REVISIONS: _____ BY: _____

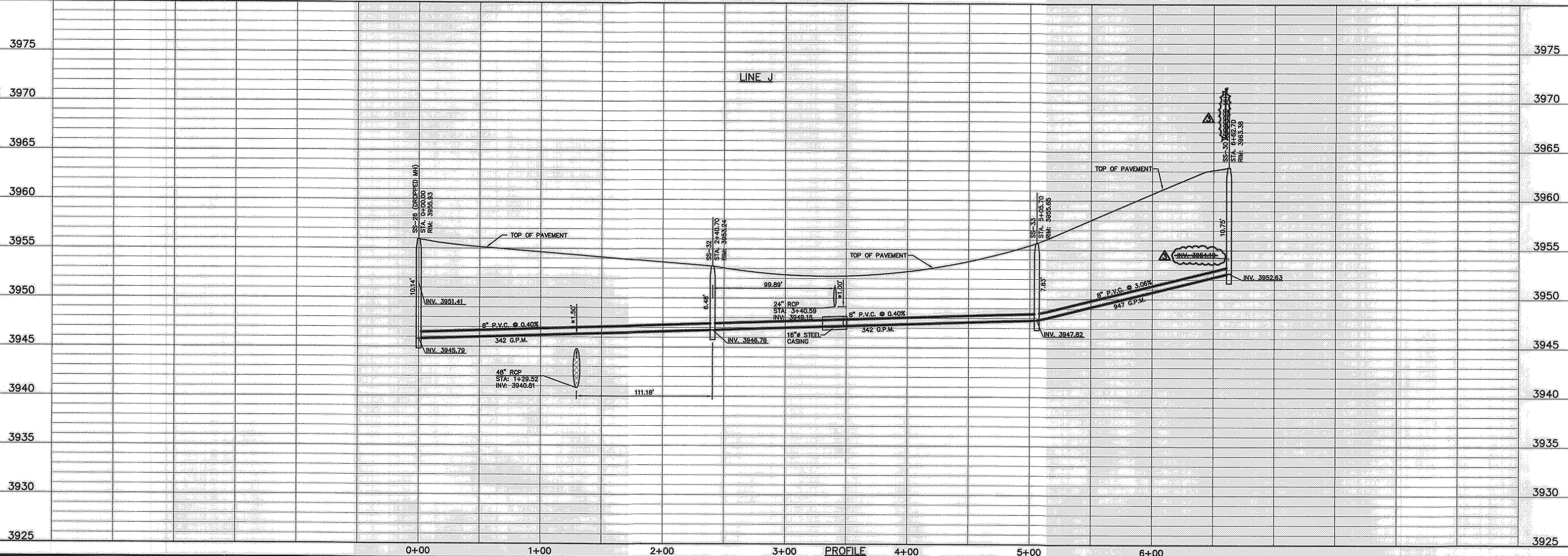
OEA
 ENGINEERS • ARCHITECTS • PLANNERS
 Center Center & Transmountain
 Office 915.544.5232 Fax 915.544.5233 www.oea.com
 TEXAS REGISTRATION NO. 2654



SCALE
 Horizontal: 1"=40'
 Vertical: 1"=5'
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APPVD. BY: A.H.
 JOB No. 2050-013-LD



- LEGEND:**
- ← PROPOSED DOUBLE PIGGY SANITARY SEWER LINES
 - ← PROPOSED SANITARY SEWER LINE
 - ← PROPOSED SANITARY SEWER LINE ON OTHER SHEETS
 - W PROPOSED WATER LINE
 - PROPOSED STORM SEWER
 - EXISTING GAS LINE
 - ⊙ PROPOSED SEWER SERVICE
 - ⊙ PROPOSED WATER SERVICE



PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**SANITARY SEWER
 PLAN & PROFILE
 LINE "J"**

SHEET NO.
C18.14R

RECORD DRAWINGS
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 10/24/2013

THE SUBDIVISION CONSTRUCTION OF PHASE I CONSISTS OF INSTALLING WATER AND SANITARY SEWER SYSTEMS ON THE APPROVED EPU PHASE II.

REFERENCE SUBDIVISION PHASE II

* ACTUAL DIMENSION VARIES WITH ACTUAL THICKNESS OF THE PIPE. DIMENSION SHOWN IS FROM INVERT OF RCP PIPE TO TOP OF SANITARY SEWER.

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) 880-7200 |
| ONEOK PARTNERS | (915) 595-6918 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 621-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

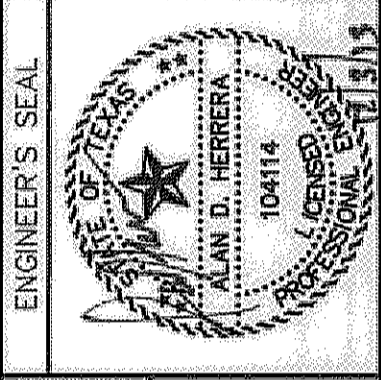
WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

FOUND N.A.S. SURVEY MARKER STATION "CHINO 1880"
 ELEVATION: 3946.03 (CITY OF EL PASO VERTICAL DATUM SHOWING)
 (NAD 83 DATUM)
 3946.71 (NAD 83 DATUM)
 TIE TO THE PROJECT BENCHMARK IS 100'00"00"E, 3.020'03 FEET FROM A 1/2 INCH BENCH MARK FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLE D. HUNDT SURVEY NO. 238

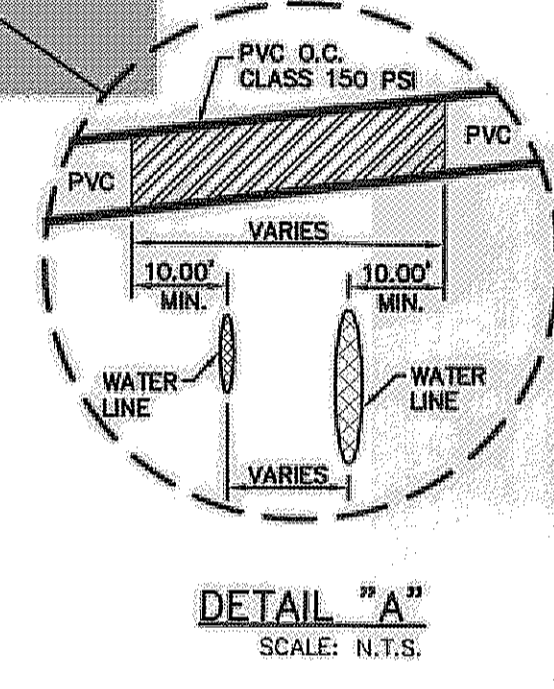
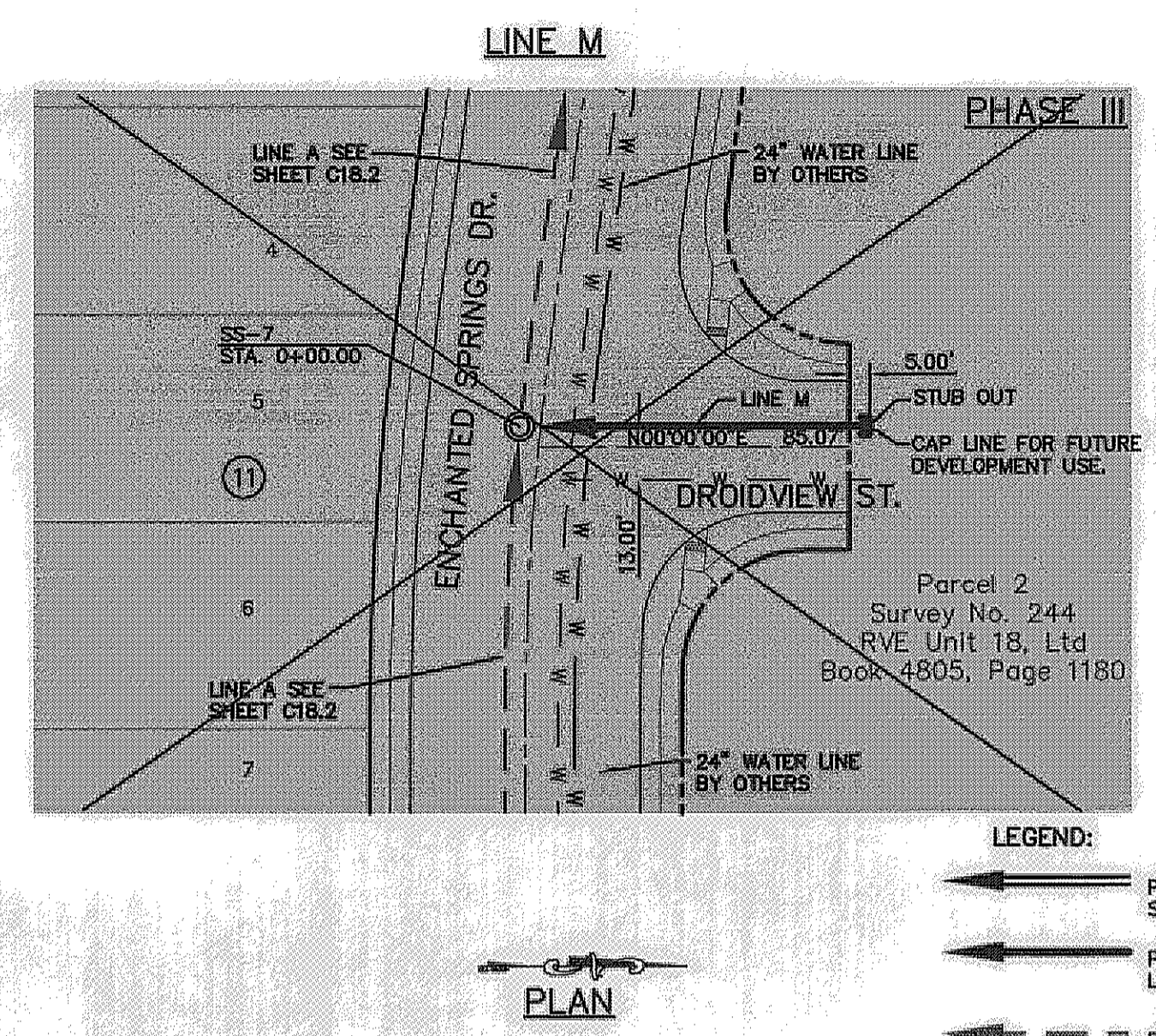
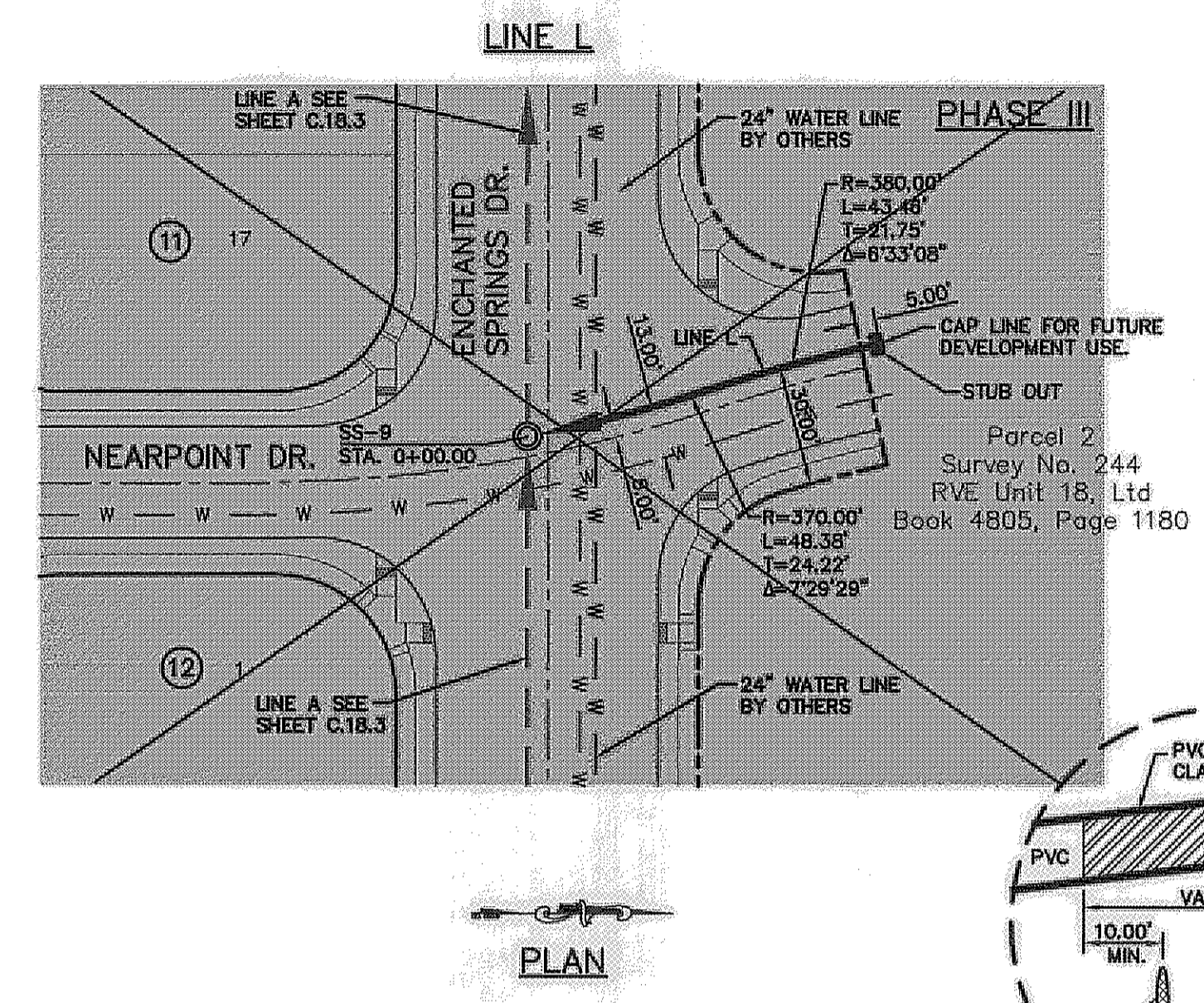
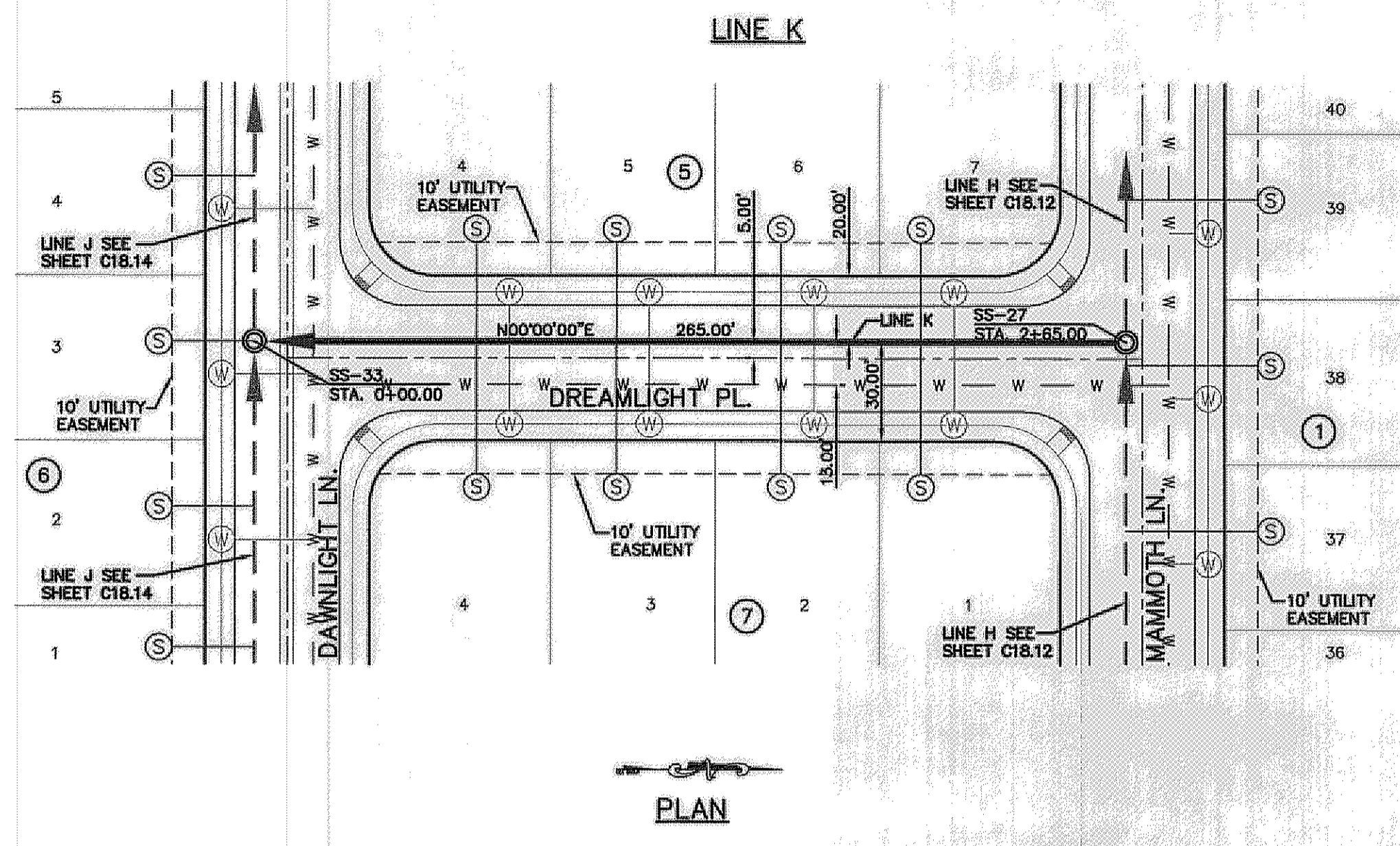
DATE: _____ BY: _____
 REVISIONS: _____

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 6706 RILEY ROAD, SUITE 100
 EL PASO, TEXAS 79907
 TEXAS REGISTRATION NO. 4964



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

DATE: JUNE 2012
DESIGN BY: A.H.
DRAWN BY: J.M.
CHKD. BY: J.L.A.
APPVD. BY: A.H.
 JOB NO. 2050-013-1-D



- LEGEND:**
- ← PROPOSED DOUBLE PIGGY SANITARY SEWER LINES
 - ← PROPOSED SANITARY SEWER LINE
 - ← PROPOSED SANITARY SEWER LINE ON OTHER SHEETS
 - ← PROPOSED WATER LINE
 - ← PROPOSED STORM SEWER
 - GAS — EXISTING GAS LINE
 - ⊙ PROPOSED SEWER SERVICE
 - ⊙ PROPOSED WATER SERVICE

| Station | Line K Profile | Line L Profile | Line M Profile |
|---------|----------------|----------------|----------------|
| 3975 | | | |
| 3970 | | | |
| 3965 | | | |
| 3960 | | | |
| 3955 | | | |
| 3950 | | | |
| 3945 | | | |
| 3940 | | | |
| 3935 | | | |
| 3930 | | | |
| 3925 | | | |

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

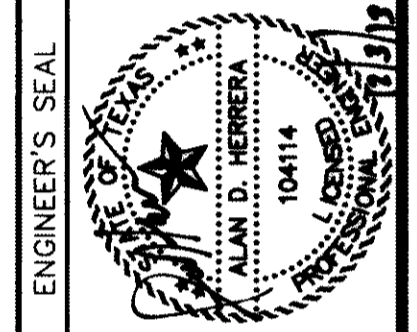
SHEET TITLE
 SANITARY SEWER PLAN & PROFILE
 LINE "K"
 SANITARY SEWER PLAN & PROFILE
 LINE "L"
 SANITARY SEWER PLAN & PROFILE
 LINE "M"

SHEET NO.
 C18.15

RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED
 BASED ON INFORMATION PROVIDED BY OTHERS.
 OSEA GROUP HAS NOT VERIFIED THE ACCURACY
 AND/OR COMPLETENESS OF THIS INFORMATION AND
 SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR
 OMISSIONS THAT MAY BE INCORPORATED AS A
 RESULT OF ERRONEOUS INFORMATION PROVIDED BY
 OTHERS.
 10/24/2013

REFERENCES — BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 3946.11 (NAVD 88 DATUM)
 3946.78 (NGVD 29 DATUM)
 3946.11 (NAVD 88 DATUM)
 3946.78 (NGVD 29 DATUM)
 SEE TO THE PROJECT BENCHMARK IS AN OSG SIZE, 3.02483
 (1" PER FOOT)
 CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239
 DATE: _____ BY: _____
 REVISIONS

osea
ENGINEERS • ARCHITECTS • PLANNERS
 Casstner Center @ Transmountain
 4712 Woodrow Bean, Ste. F El Paso, TX 79924
 Office: 915.544.2322 Fax: 915.544.0233 www.osea.net
 TEXAS PROFESSIONAL REGISTRATION NO. 4584

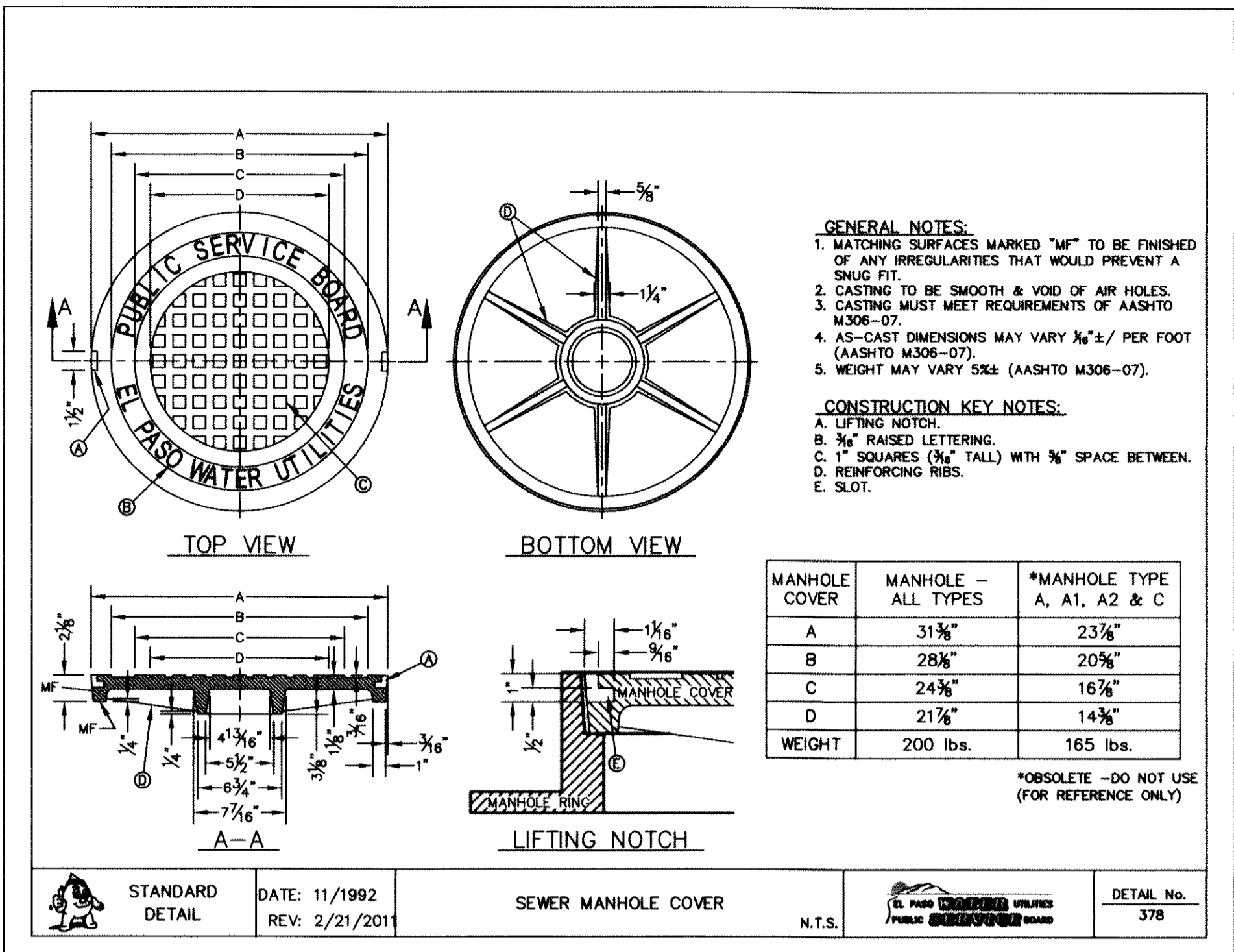


SCALE: N/A
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2012
 DESIGN BY: A.H.
 DRAWN BY: J.M.
 CHKD. BY: J.L.A.
 APP'D. BY: A.H.
 JOB No. 2050-013-LD

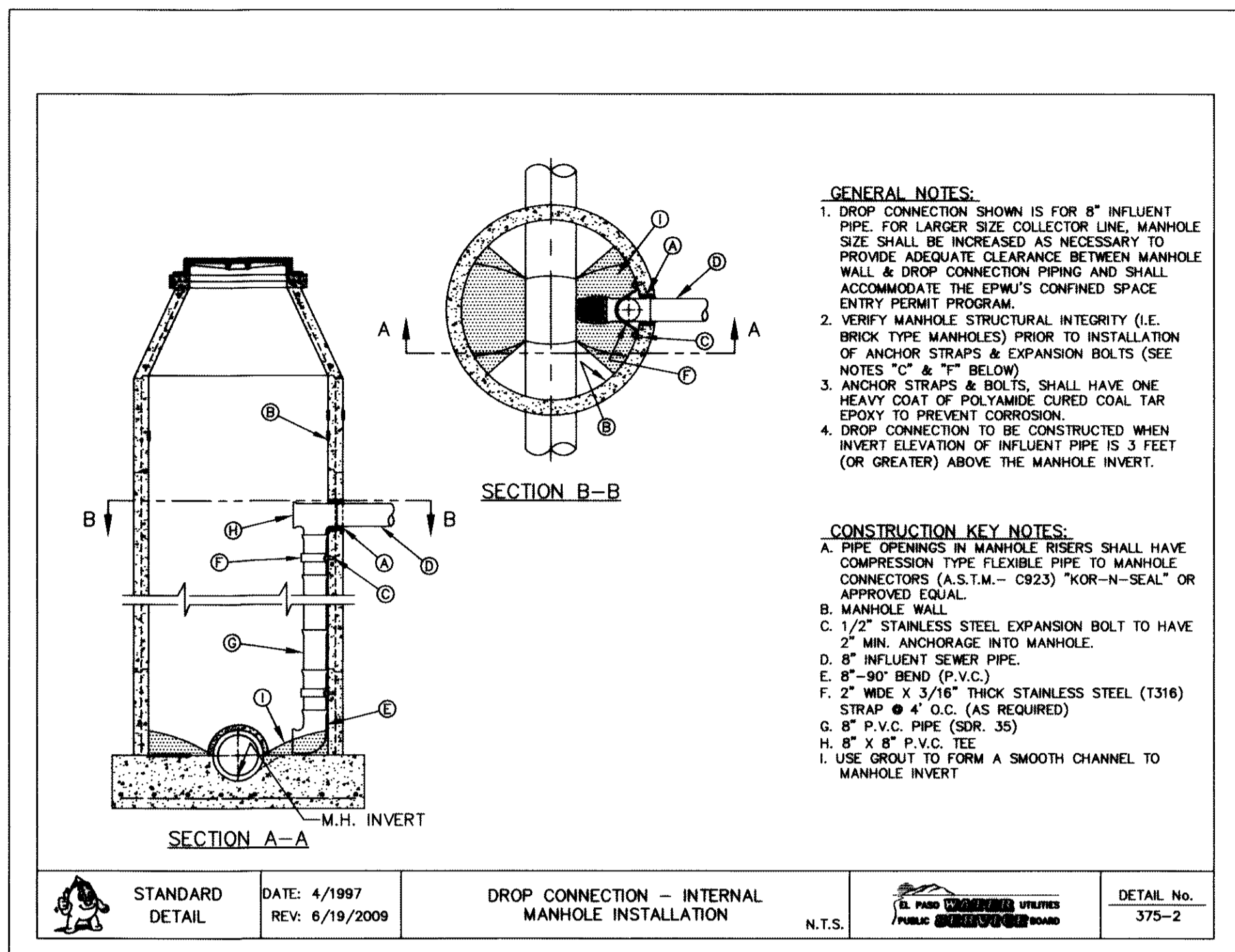
PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**SANITARY
 SEWER DETAILS**
 (SHEET 1 OF 3)
 SHEET NO.

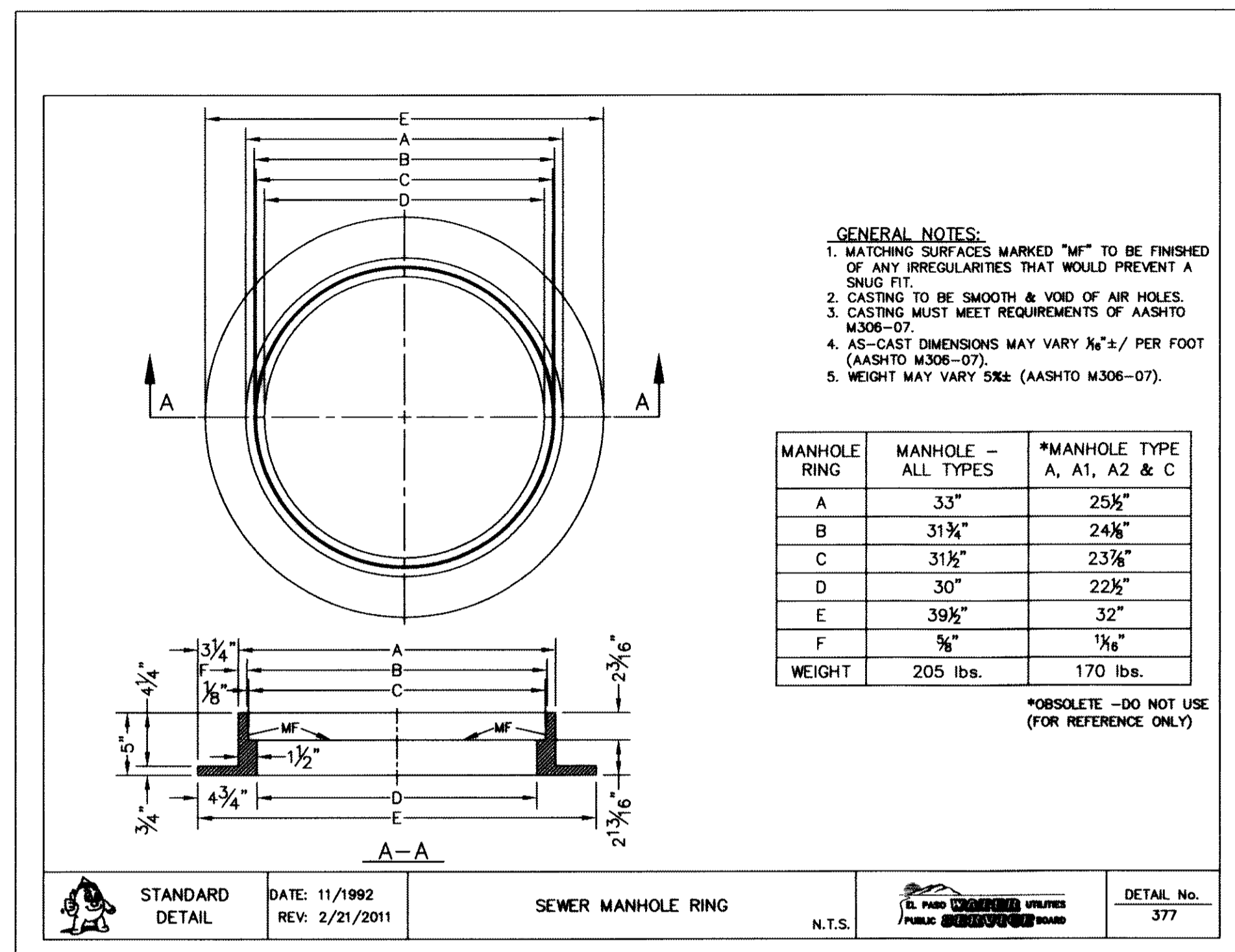
C19.1



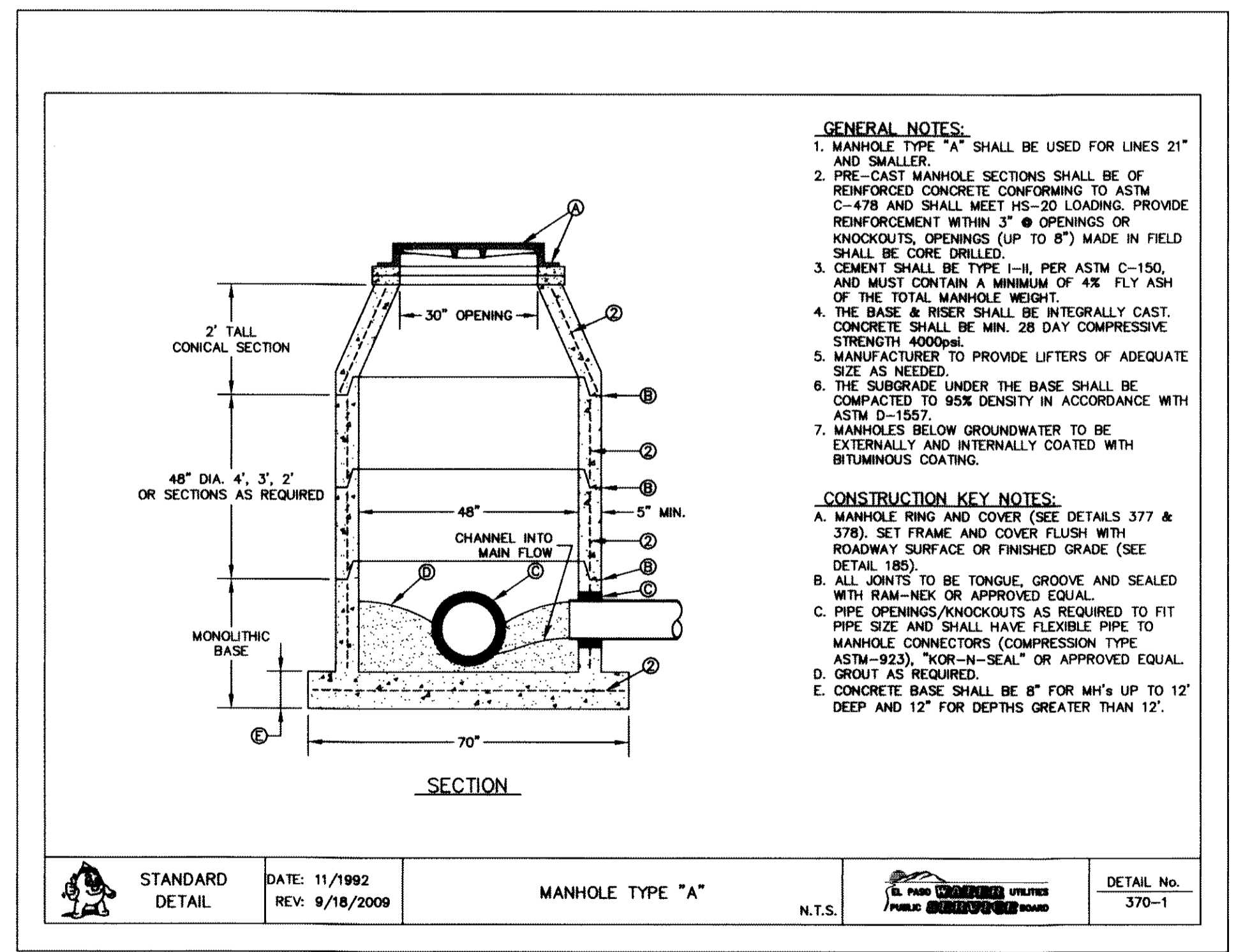
1 SEWER MANHOLE COVER SCALE: N.T.S.



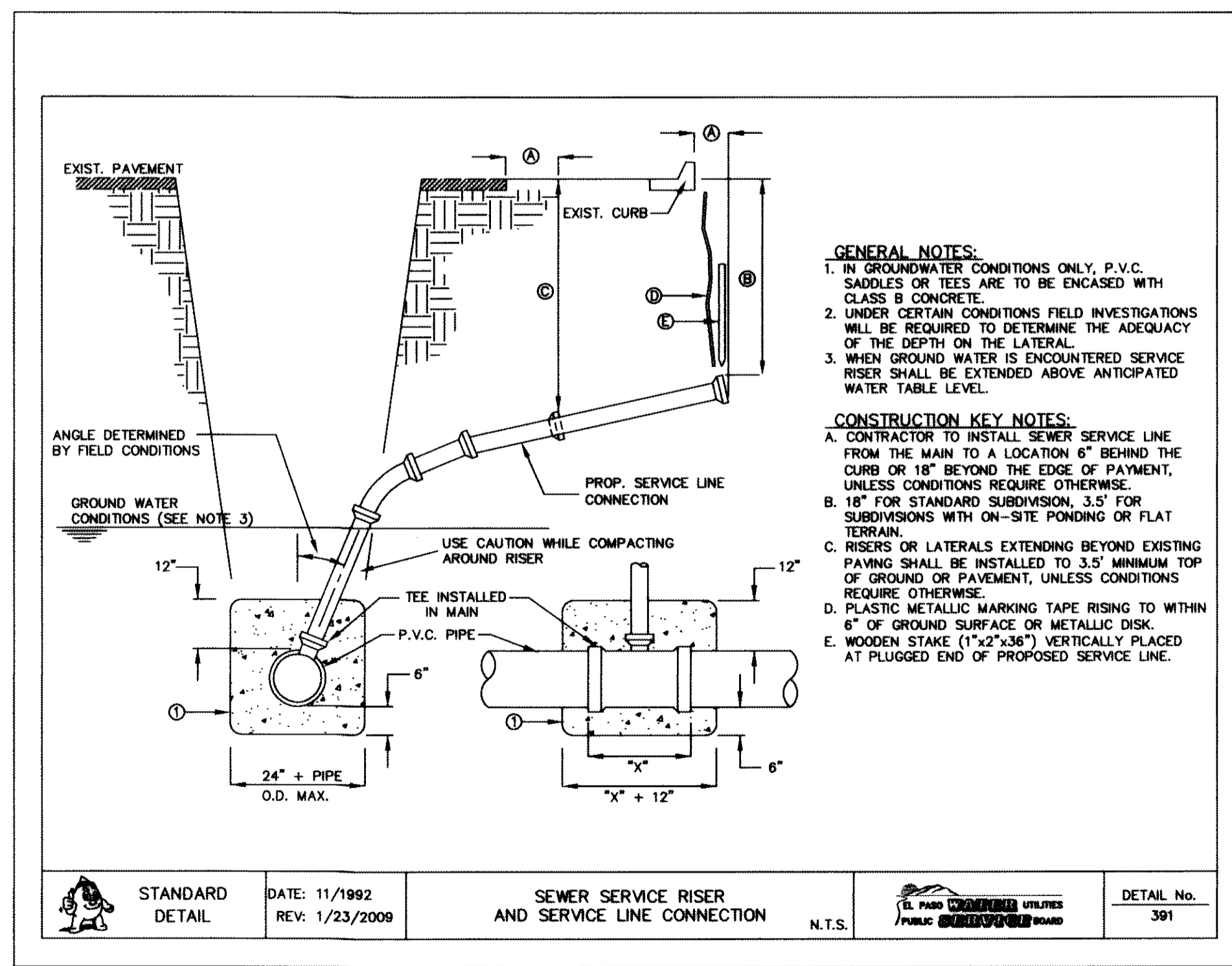
2 DROP CONNECTION - INTERNAL MANHOLE INSTALLATION SCALE: N.T.S.



3 SEWER MANHOLE RING SCALE: N.T.S.



4 MANHOLE TYPE "A" SCALE: N.T.S.



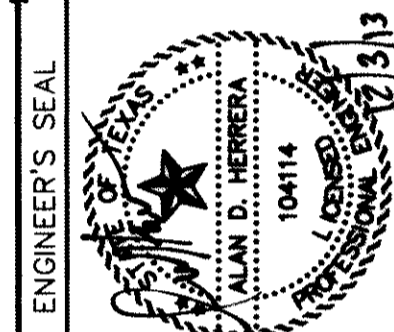
5 SEWER SERVICE RISER AND SERVICE LINE CONNECTION SCALE: N.T.S.

GENERAL NOTES:
 1. DEVELOPER SHALL ENSURE RESIDENTIAL SEWER SERVICE LINES HAVE BEEN EXTENDED TO THE PROPERTY LINE.
 2. BUILDER SHALL ENSURE SIDEWALKS ARE NOT CONSTRUCTED UNTIL THE RESIDENTIAL SEWER SERVICE LINES HAVE BEEN EXTENDED 10 PLUS FEET INTO PRIVATE PROPERTY FROM PROPERTY LINE.

REFERENCES - BENCHMARKS

| | |
|--|-----------|
| FOUND N.S.S. SURVEY MARKER STAMPED "CHINA 1987" | BY |
| ELEVATION: 3265.93 (CITY OF EL PASO VERTICAL DATUM SHOWN) | DATE |
| 3946.11 (NAVD 88 DATUM) | REVISIONS |
| TIE TO THE PROJECT BENCHMARK IS NOD50527E, 3.02083 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY NO. 239 | DATE |

ceagroup
 U T O U P
 engineers • architects • planners
 Casterline Center @ Transmountain
 4712 Woodbine, El Paso, TX 79904
 One Woodward Center, Dallas, TX 75201
 TEXAS PROFESSIONAL REGISTRATION NO. 4984

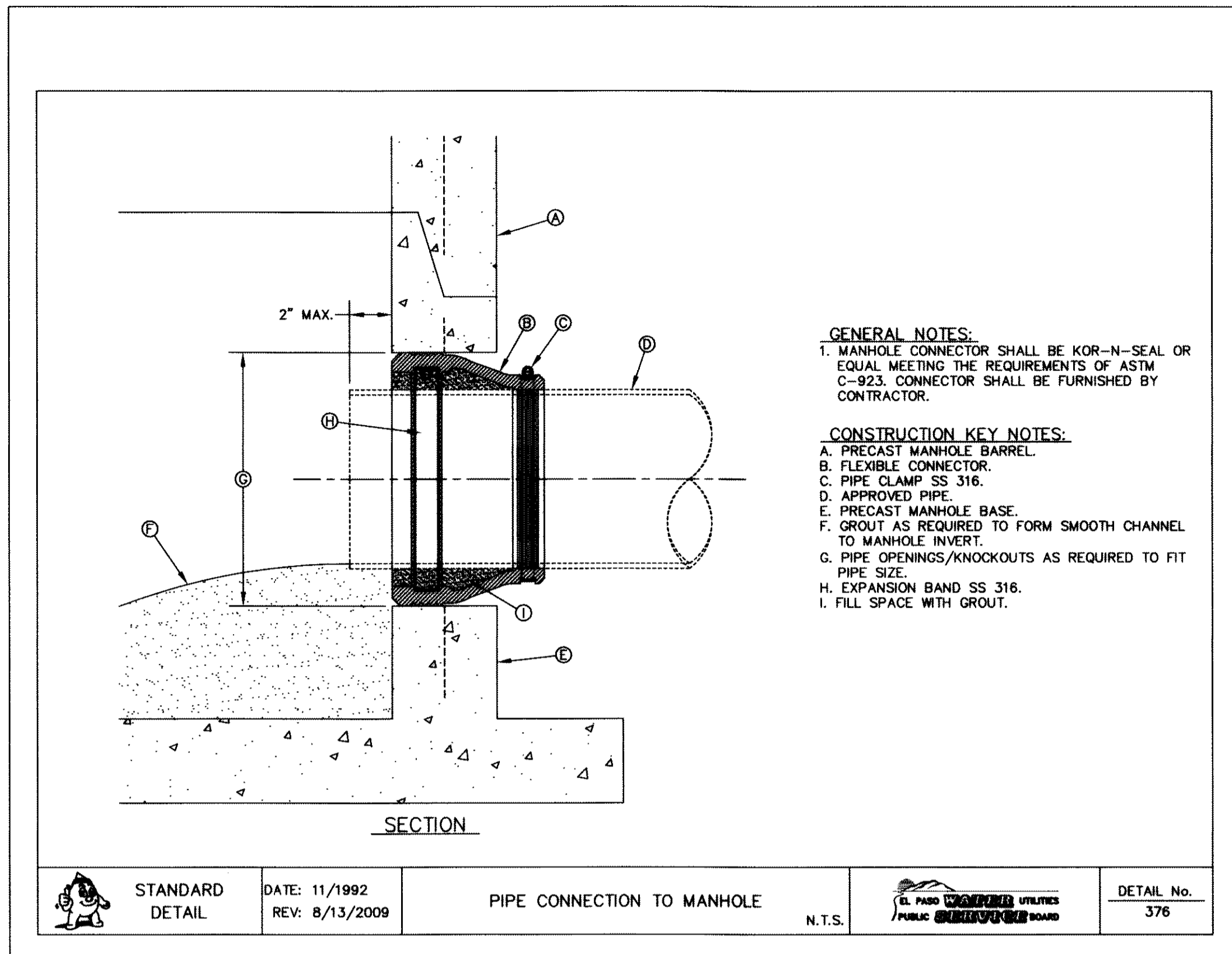


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| Vertical: | N/A |
| Contour Interval: | N/A |
| DATE: | JUNE 2012 |
| DESIGN BY: | A.H. |
| DRAWN BY: | J.M. |
| CHKD. BY: | J.L.A. |
| APPVD. BY: | A.H. |
| JOB No. | 2050-013-LD |

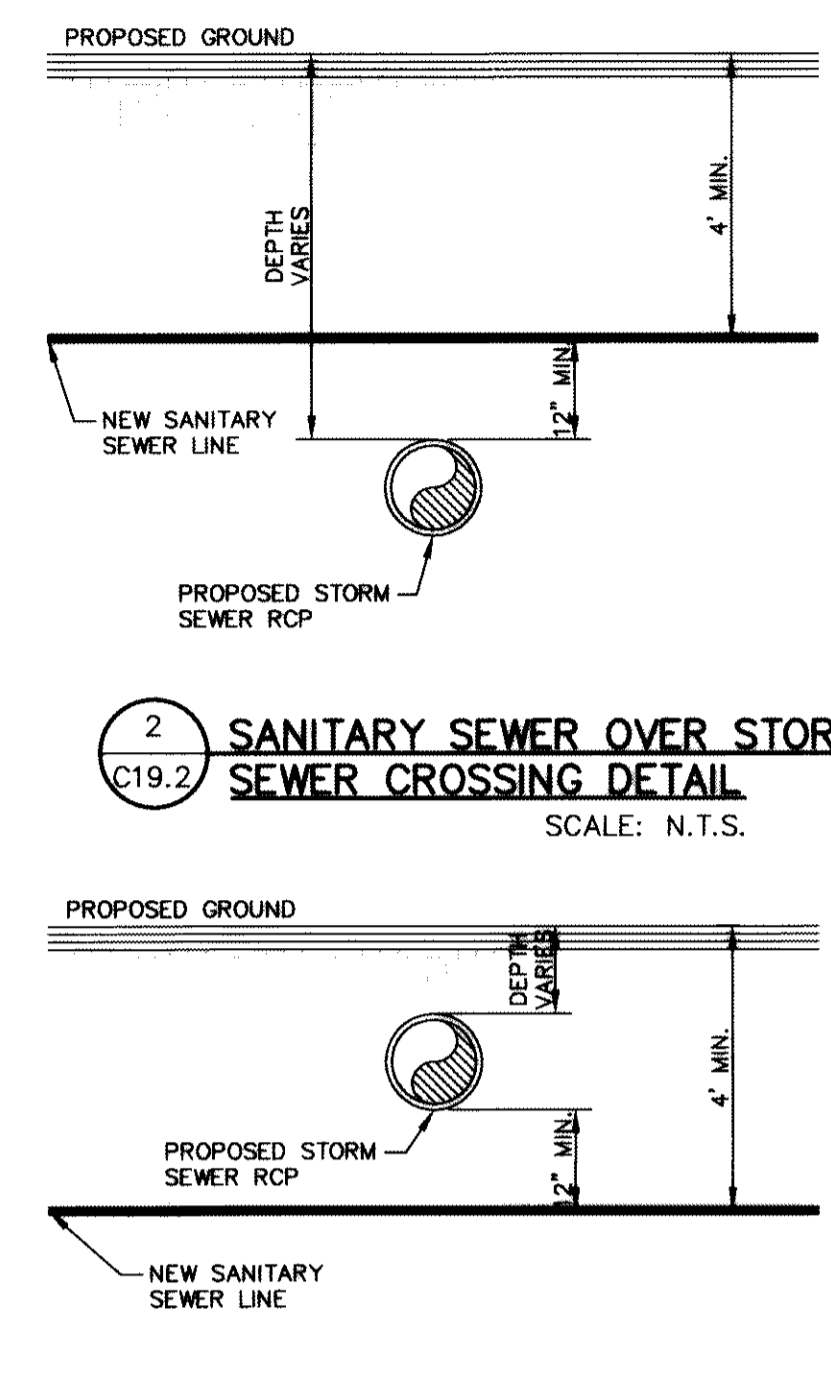
PROJECT TITLE
**DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS**

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

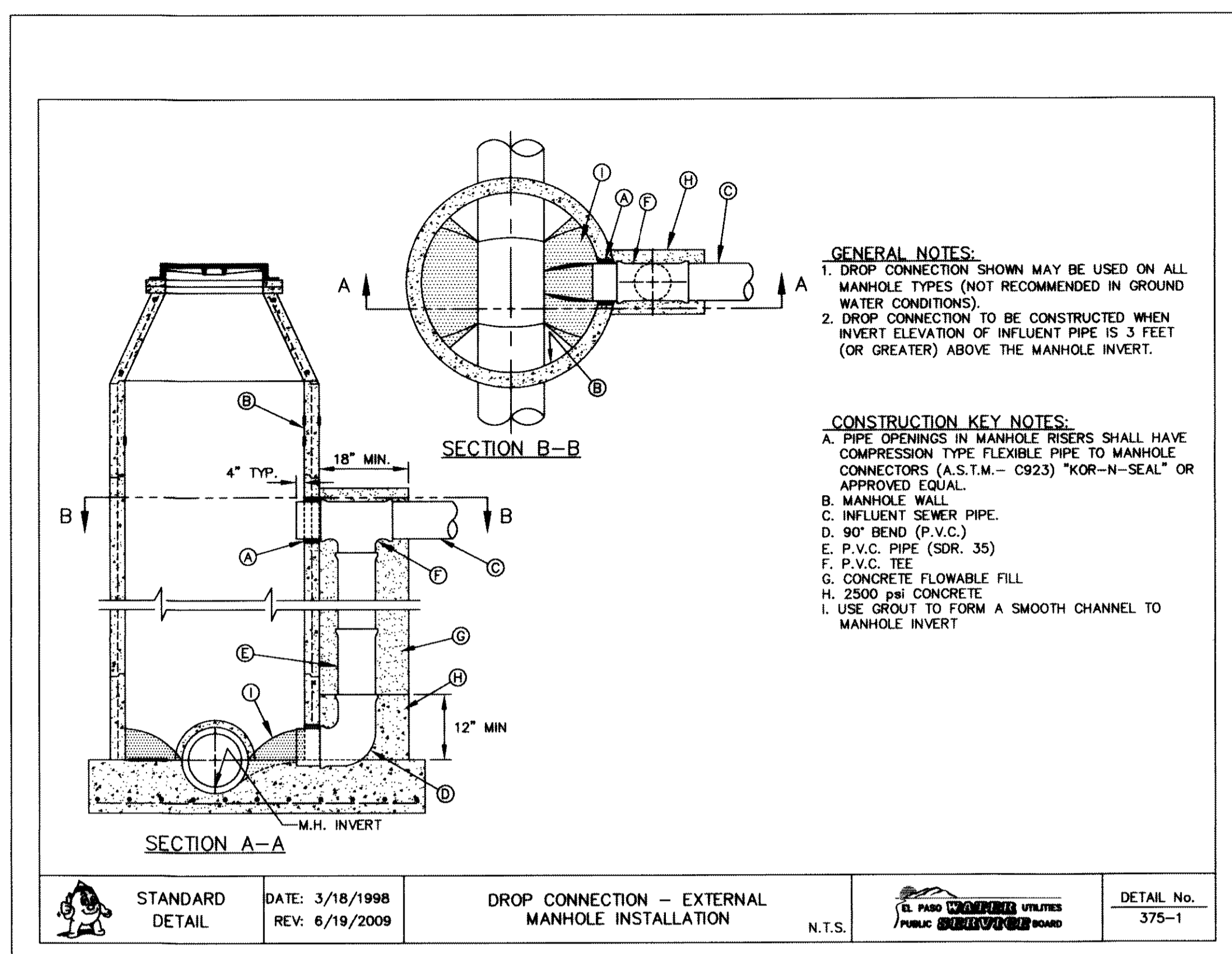
C19.2



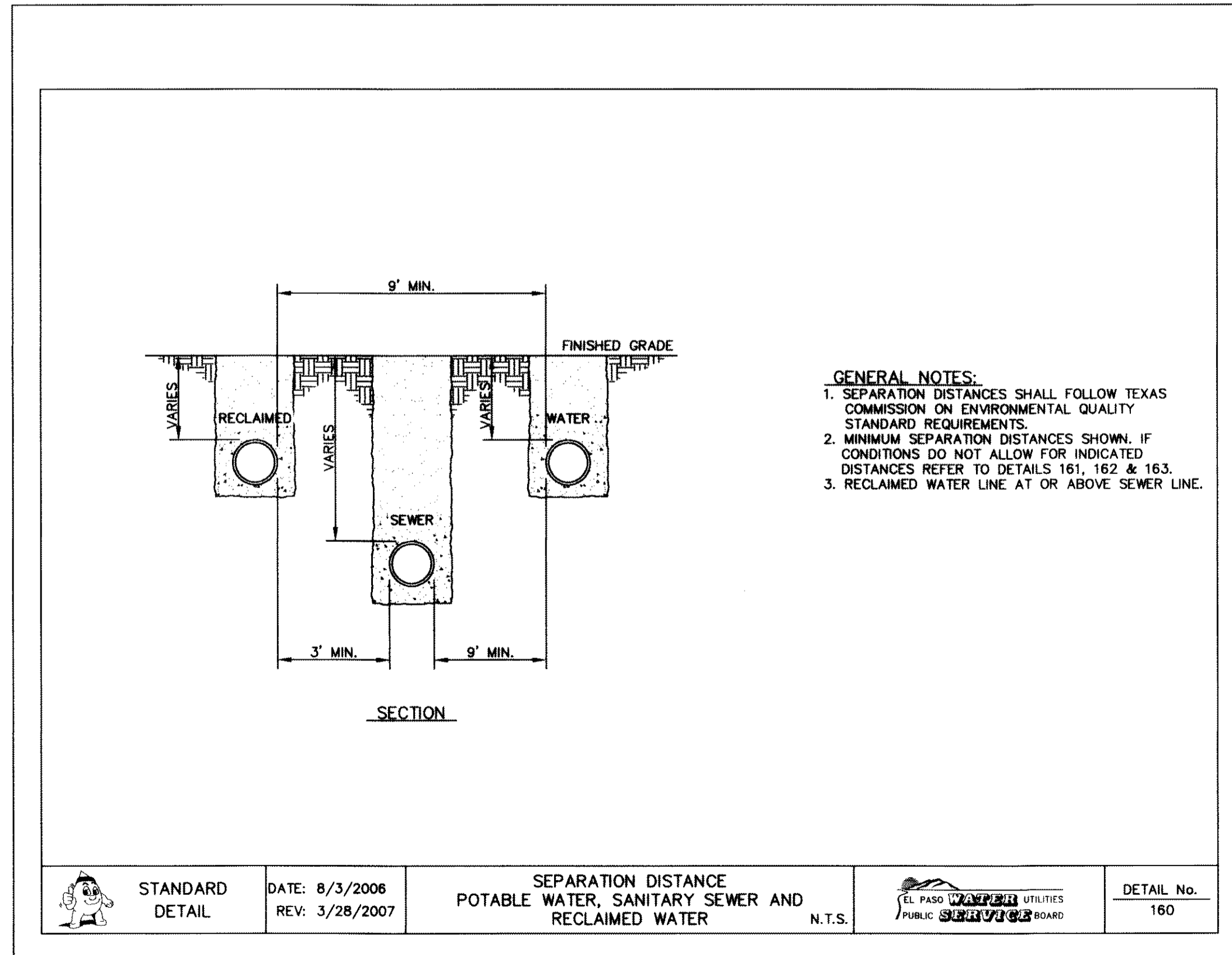
1 PIPE CONNECTION TO MANHOLE
 SCALE: N.T.S.



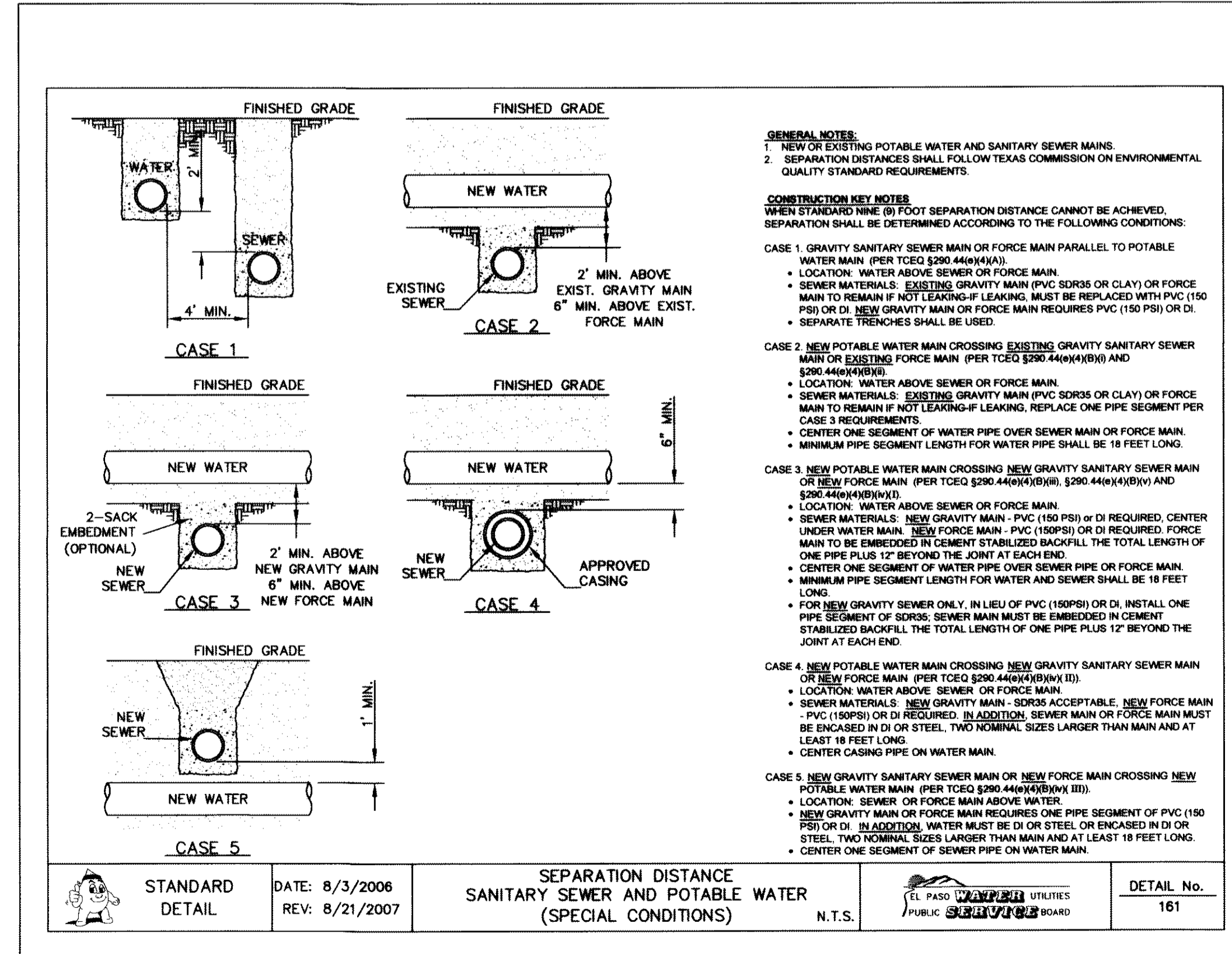
2 SANITARY SEWER UNDER STORM SEWER CROSSING DETAIL
 SCALE: N.T.S.



3 DROP CONNECTION - EXTERNAL MANHOLE INSTALLATION
 SCALE: N.T.S.



4 SEPARATION DISTANCE POTABLE WATER, SANITARY AND RECLAIMED WATER
 SCALE: N.T.S.



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

RECORD DRAWINGS
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. CEA GROUP HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.
 10/24/2013

| | | |
|------|-----------|----|
| DATE | REVISIONS | BY |
| | | |

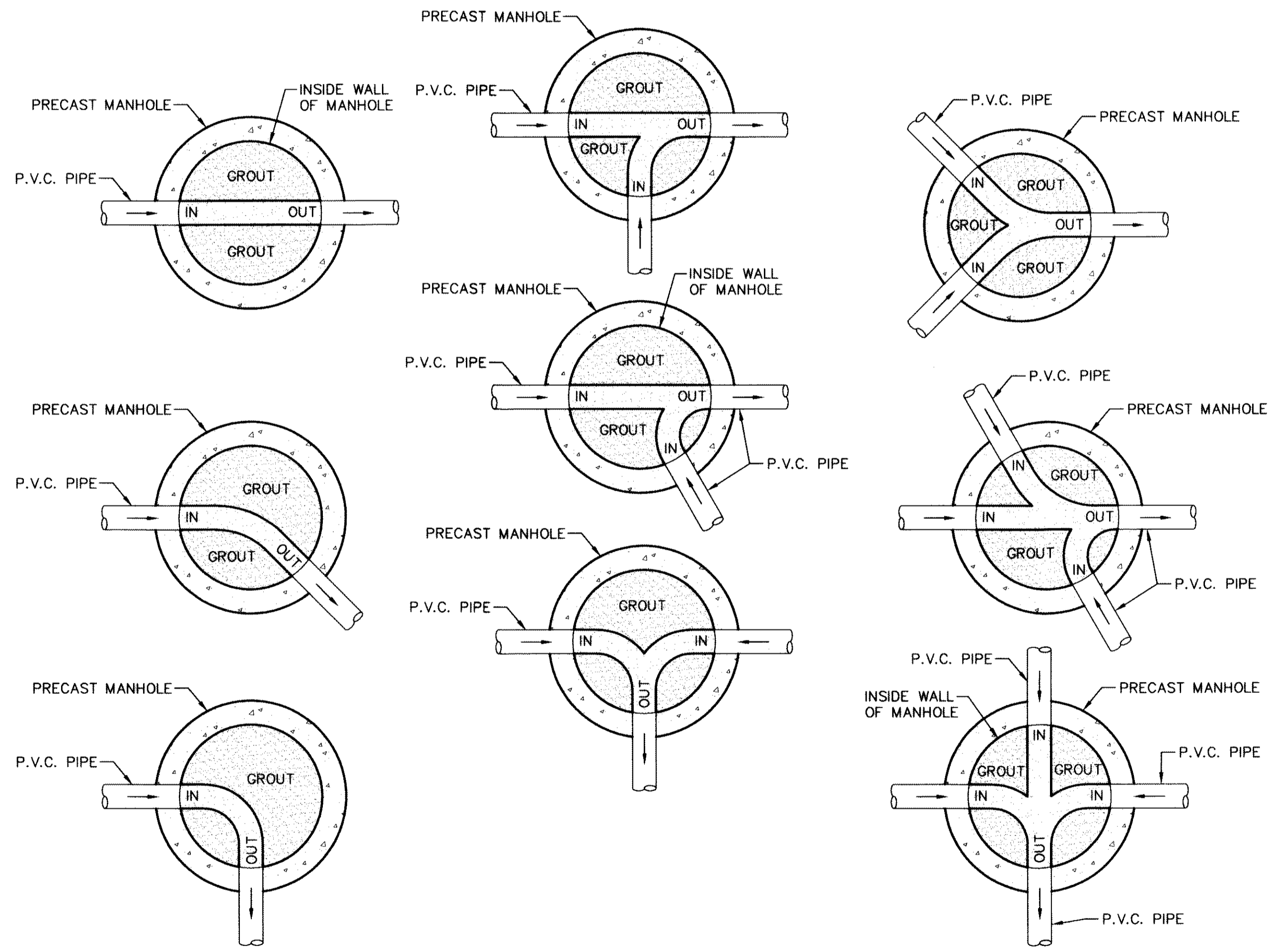
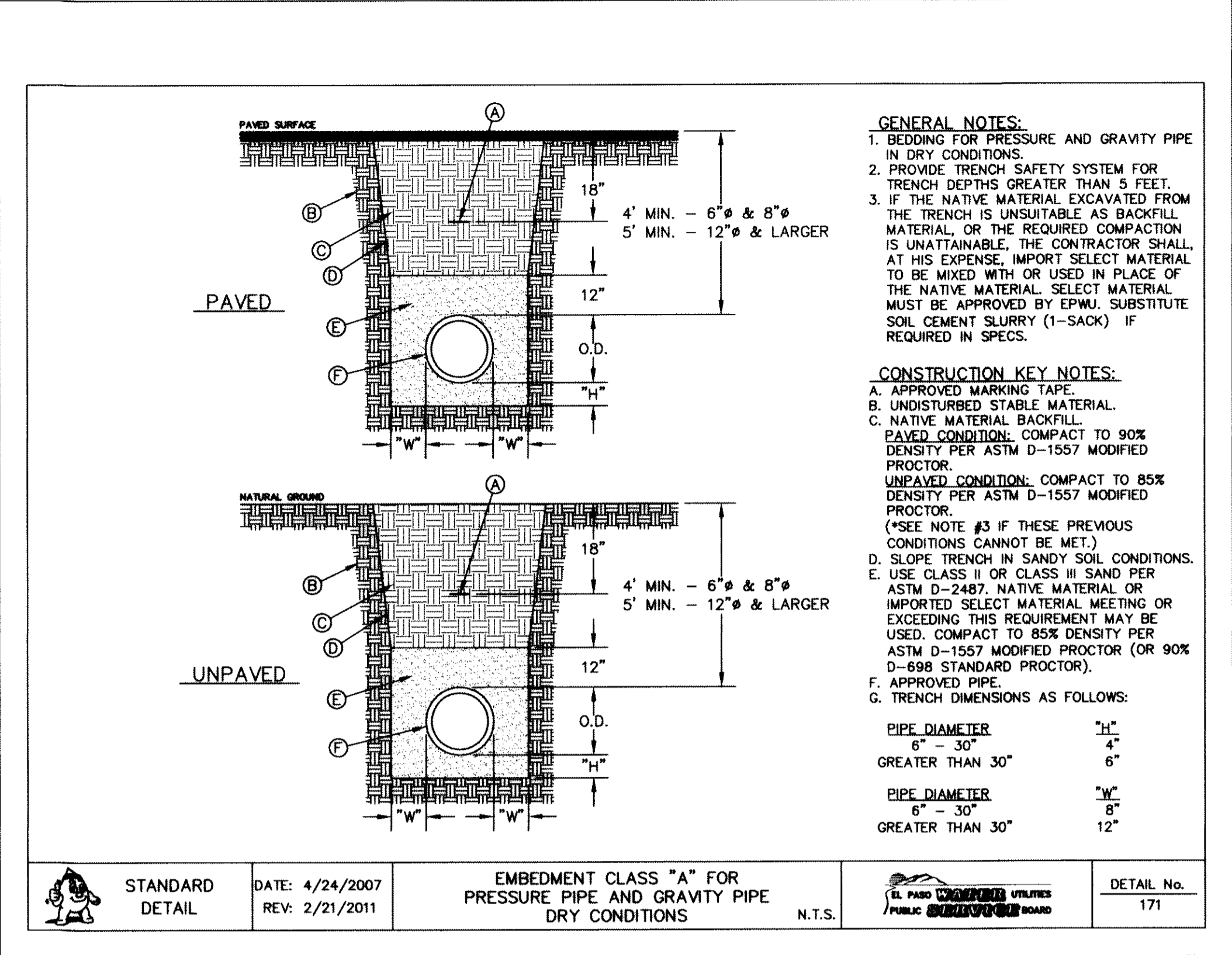
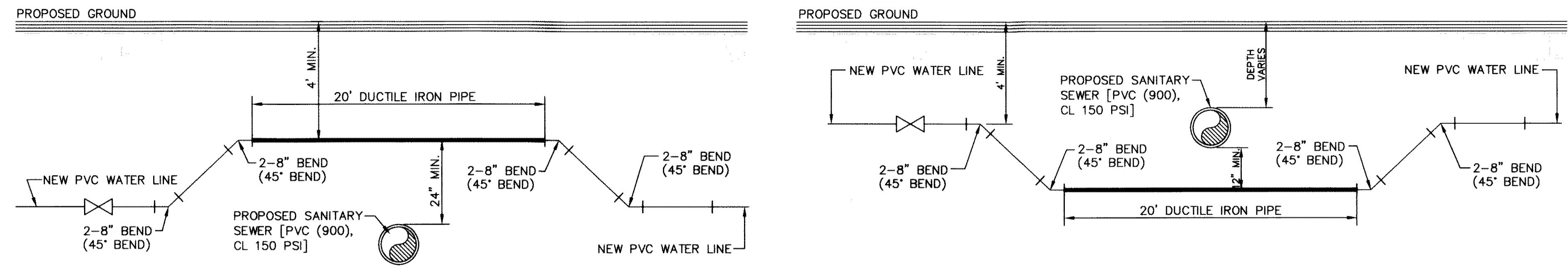
ENGINEERS SEAL
 OCEA
 engineers • architects • planners
 Center for Transportation
 4712 Woodrow Wilson, Ste. F, El Paso, TX 79924
 OCEA PUBLIC UTILITIES BOARD
 TEXAS ENGINE REGISTRATION NO. 4884

| | |
|------------------|--------------|
| SCALE | N/A |
| Horizontal | N/A |
| Vertical | N/A |
| Contour Interval | N/A |
| DATE | JUNE 2012 |
| DESIGN BY | A.H. |
| DRAWN BY | J.L.A. |
| CHKD. BY | J.L.A. |
| APPROV. BY | A.H. |
| JOB No. | 20390-013-LD |

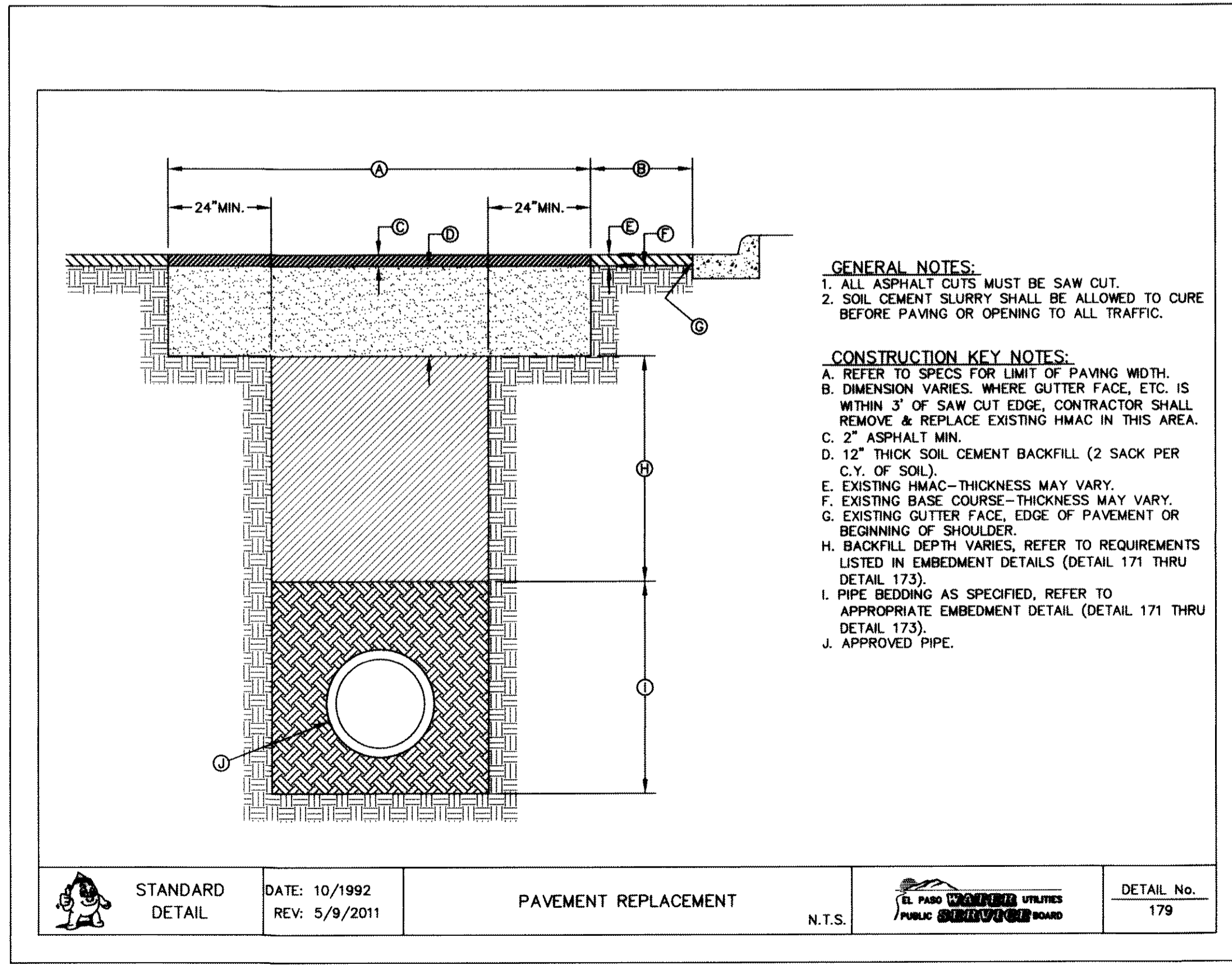
PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 PHASE I
 SUBDIVISION IMPROVEMENTS

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

C19.3

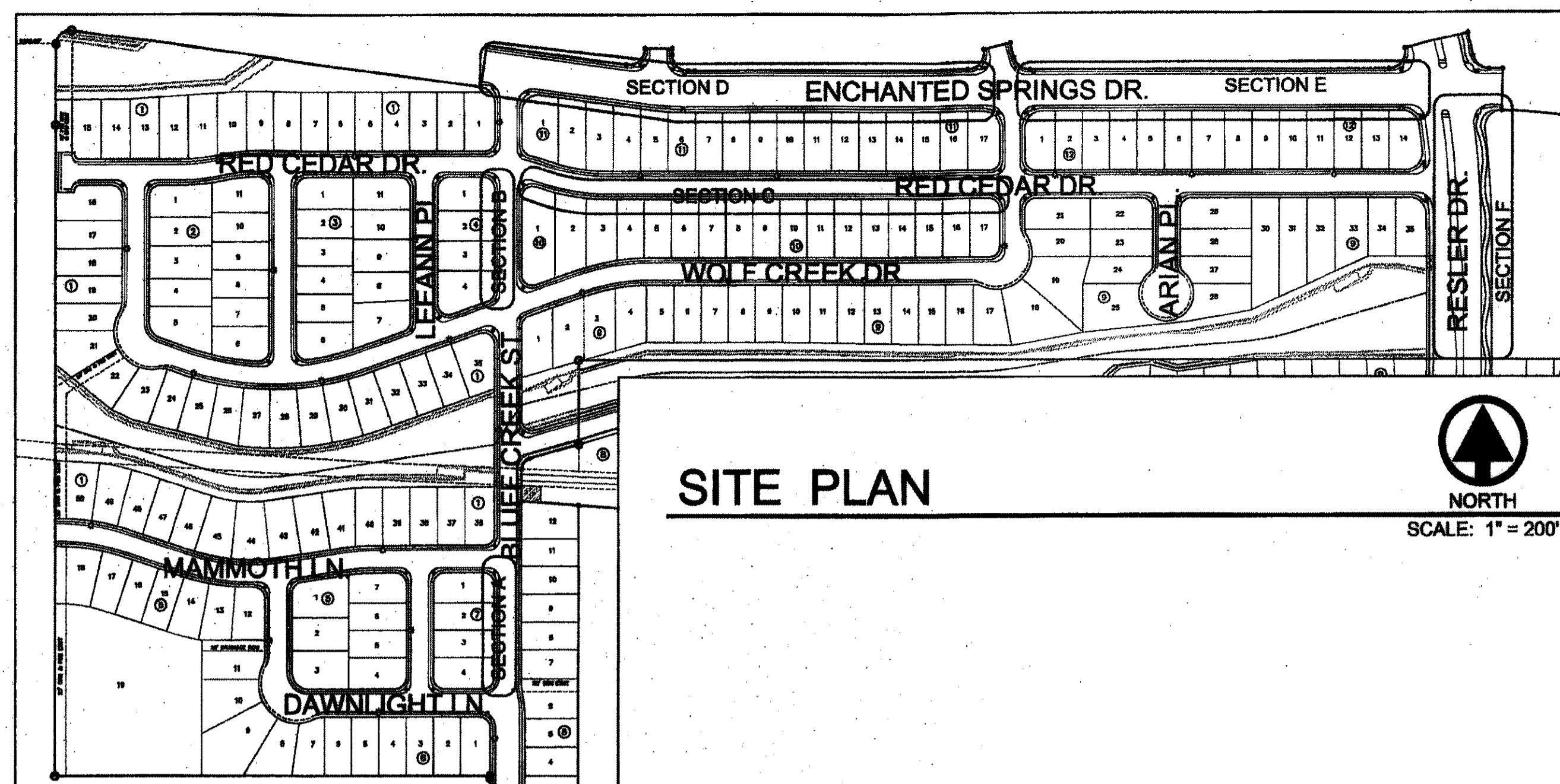


- NOTES:**
- CONTRACTOR TO FORM SMOOTH CHANNEL WITH GROUT TO CONTINUE PIPE SLOPE IN THE DIRECTION OF FLOW.
 - WIDTH OF CHANNEL TO MATCH INSIDE DIAMETER OF PIPE.
 - WHEN DIFFERENT SIZES OF PIPE ARE CONNECTING TO MANHOLE, TAPER WIDTH OF CHANNEL TO TOTAL LENGTH OF INSIDE DIAMETER OF MANHOLE.
 - GROUT TO BE USED FOR BOTH MANHOLES AND DROP MANHOLES. NO P.V.C. PIPE SHALL BE INSTALLED IN MANHOLE. REFER TO DETAILS 1 & 2 SHEET C6.2 AND DETAIL 3 THIS SHEET.
 - REFER TO PLAN & PROFILE SHEETS FOR SIZE OF PIPES AND MANHOLES.

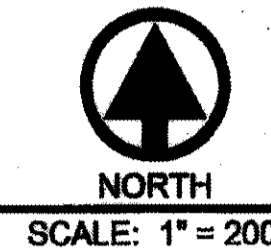


| | | | | |
|-----------------|--------------------------------|----------------------|--------|----------------|
| STANDARD DETAIL | DATE: 10/1992 REV: 5/9/2011 | PAVEMENT REPLACEMENT | N.T.S. | DETAIL No. 179 |
|-----------------|--------------------------------|----------------------|--------|----------------|

5 PAVEMENT REPLACEMENT
 SCALE: N.T.S.



SITE PLAN



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 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

WARNING ! BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

LANDSCAPE LEGEND

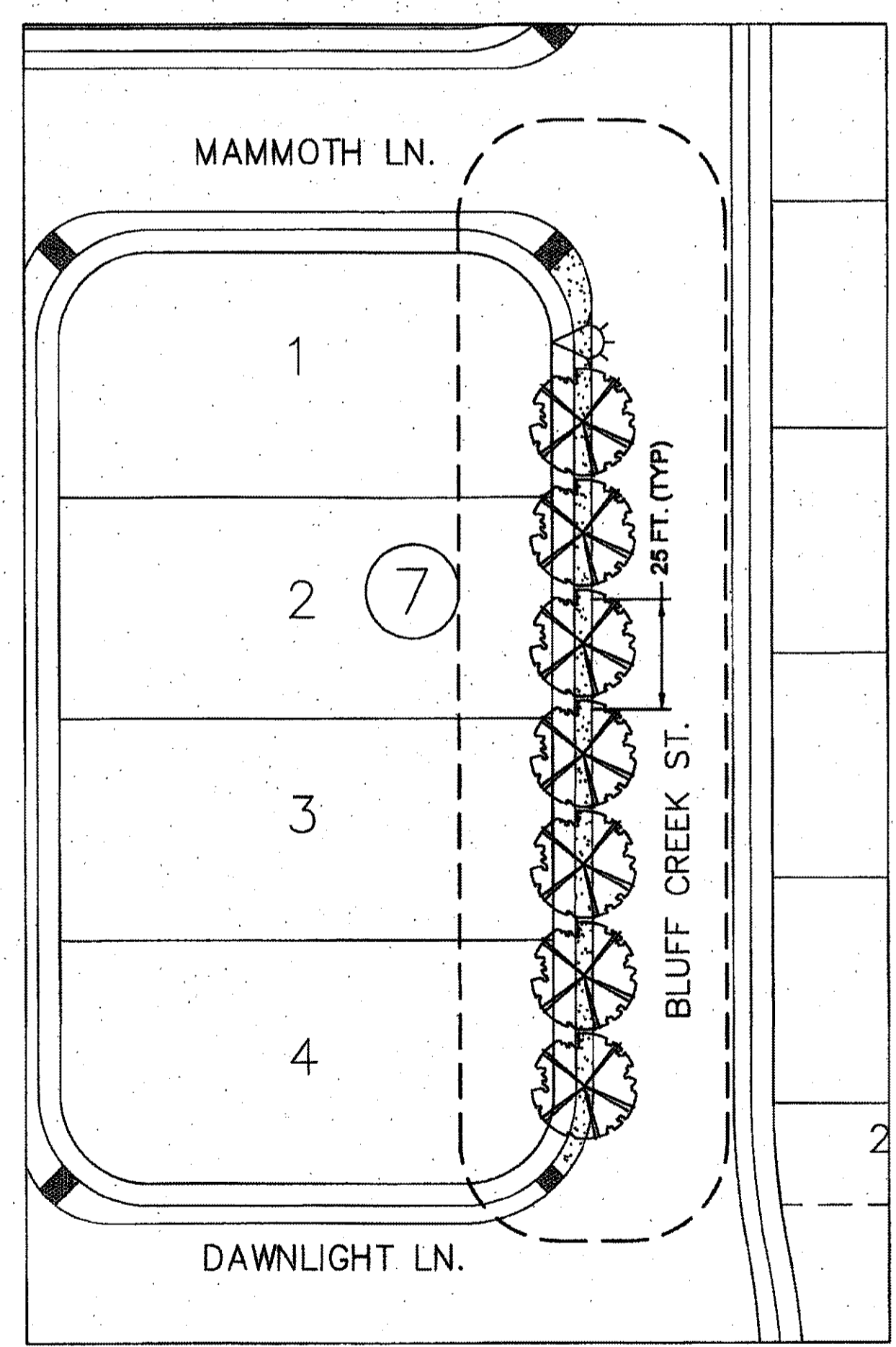
| SYMBOL | COMMON NAME | BOTANICAL NAME |
|-----------------|--------------------------|-------------------------|
| 1" CALIPER TREE | | |
| | LACEBARK ELM | ULMUS PARVIFOLIA |
| | DESERT WILLOW 'BUBBA' | CHILOPSIS LINEARIS |
| | HONEY MESQUITE | PROSOPIS GLANDULOSA |
| | DESERT MUSEUM PALO VERDE | CERCIDIUM X PARKINSONIA |

LANDSCAPE NOTES

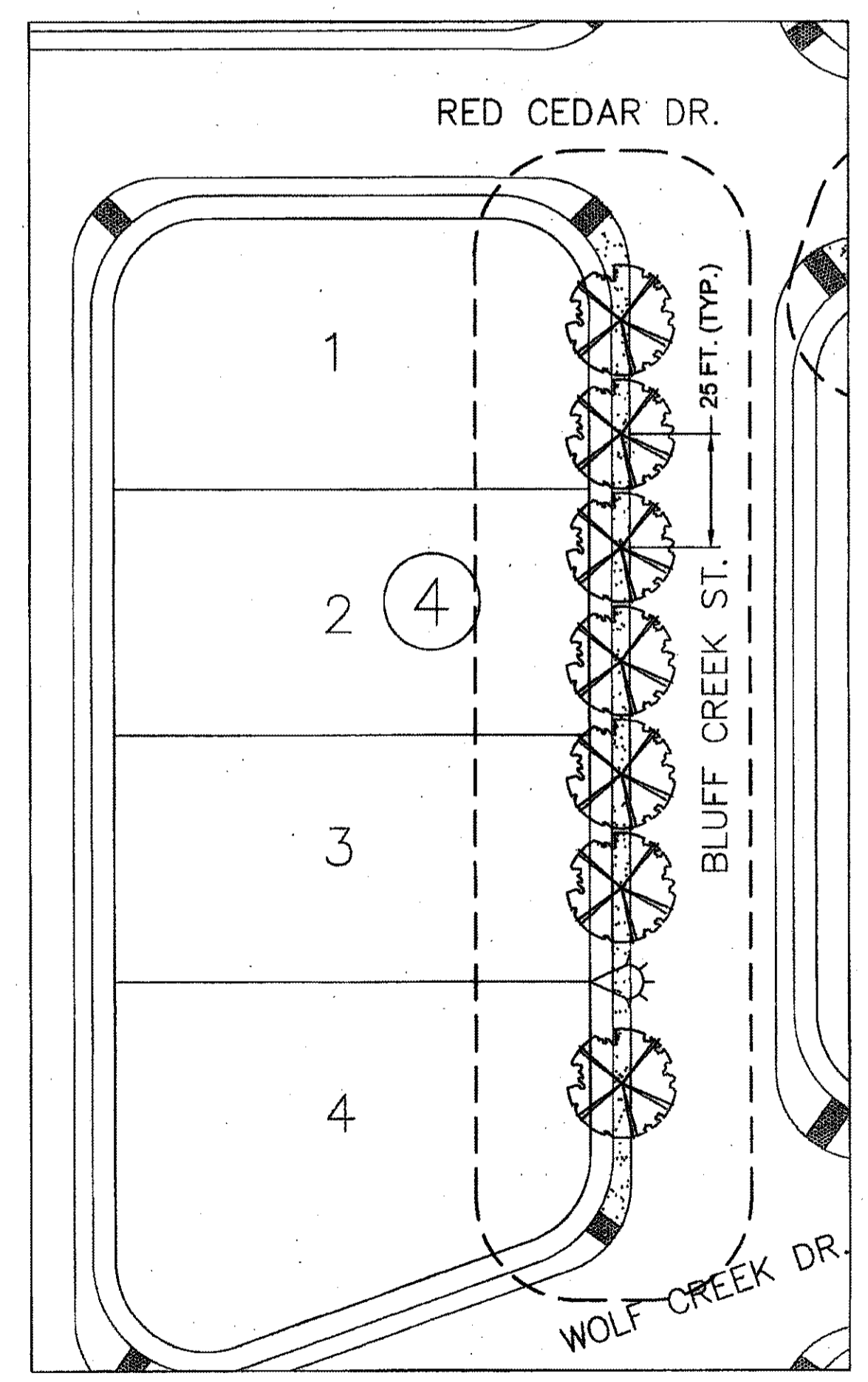
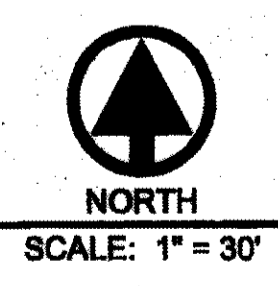
- ALL UTILITY EASEMENTS SHALL BE MARKED PRIOR TO EXCAVATION, AND PARTICULAR ATTENTION PAID TO TREE PLACEMENT WITHIN AND THROUGHOUT SITE.
- THERE SHALL BE NO STEEL EDGING BETWEEN ROCK TYPES.
- CONTRACTOR SHALL PROVIDE ROCK SAMPLES AND OBTAIN APPROVAL FROM OWNER PRIOR TO FINAL DELIVERY OF QUARRIED MATERIALS.
- CONTRACTOR TO PAY CLOSE ATTENTION TO FINISH GRADES. SHOULD GRAVELLED AREAS EXCEED 4:1 SLOPE, CONTRACTOR TO OBTAIN APPROVAL OF LANDSCAPE DESIGNER PRIOR TO MULCH INSTALLATION.
- ALL TREES SHALL BE SINGLE LEADER TRUNK, UNLESS INDICATED IN PLANS.

SPECIAL NOTE

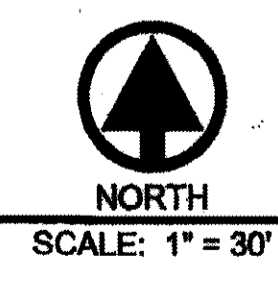
- LANDSCAPE SHALL BE INSTALLED ACCORDING TO PLANS, DETAILS, AND SPECIFICATIONS. SHOULD CHANGES BE IMPLEMENTED IN THE FIELD, A NEW SET OF PLANS IS REQUIRED TO BE SUBMITTED TO THE CITY OF EL PASO. LANDSCAPE DESIGNER IS NOT UNDER CONTRACT TO PROVIDE THESE PLANS, EXCEPT AS PROVIDED FOR IN ORIGINAL CONTRACT.
- ALL PLANT MATERIAL MUST BE INSTALLED AS SPECIFIED. IF LOCAL NURSERIES DO NOT HAVE CERTAIN PLANT MATERIAL IN STOCK, PLANT MATERIAL MAY BE ORDERED FROM SIERRA VISTA GROWERS, SUNLAND NURSERY, OR MOUNTAIN STATES WHOLESALE NURSERY. CONTRACTOR MUST PROVIDE PROOF TO ARCHITECT OR LANDSCAPE DESIGNER THAT PLANT MATERIAL CAN NOT BE OBTAINED. ALL PLANT SUBSTITUTIONS MUST BE APPROVED BY LANDSCAPE DESIGNER.



LANDSCAPE PLAN - SECTION A



LANDSCAPE PLAN - SECTION B



REFERENCES - BENCHMARKS

FOUND N.G.S. SURVEY MARKER STAMPED "GRIND USED" ELEVATION (CITY OF EL PASO "VERTICAL DATUM" SHOWN) 3946.11 (NAVD 88 DATUM)

TIE TO THE PROJECT BENCHMARK IS N0000052"E, 3,020.85 FEET FROM A 1/2" INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, BELLE D. MUNDY SURVEY No. 238

DATE _____ REVISIONS _____ BY _____

ENGINEER'S SEAL

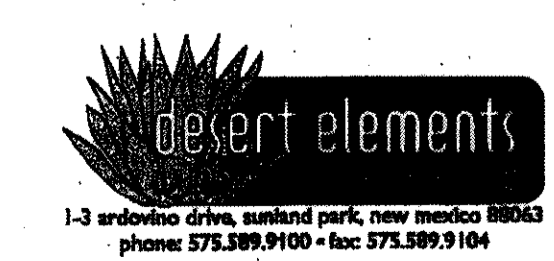
SCALE
Horizontal: _____
Vertical: _____
Contour Interval: _____

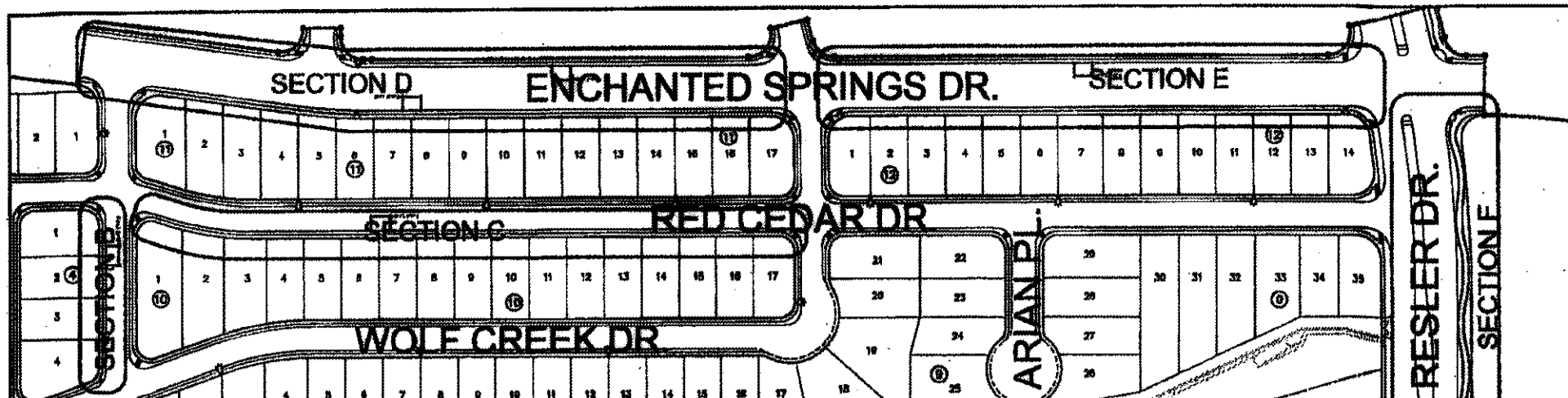
DATE: MAY 2011
DESIGN BY: S.A.
DRAWN BY: S.A.
CHKD. BY: J.B.
APPVD. BY: J.B.
JOB No. 2010-013-LD

PROJECT TITLE
DESERT SPRINGS UNIT ONE
SUBDIVISION IMPROVEMENTS

SHEET TITLE
LANDSCAPE PLAN

SHEET NO.
L1.00





SITE PLAN



SCALE: 1" = 200'

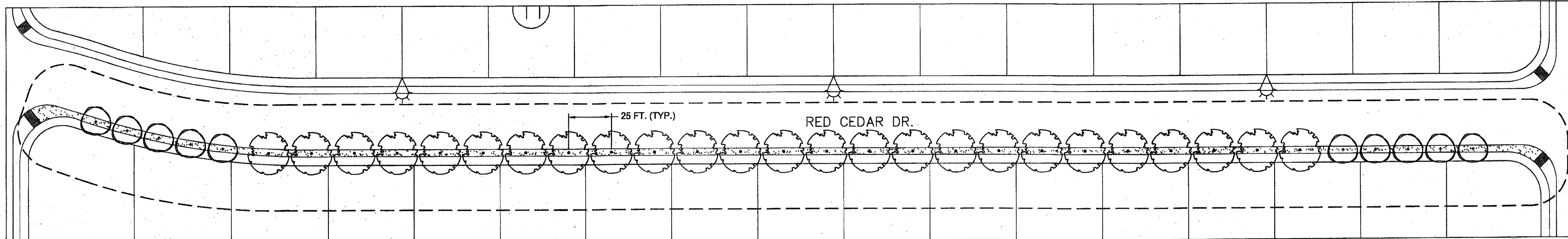
UTILITY LOCATOR SERVICES

| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 496-5244 |
| EL PASO WATER UTILITIES | (915) 594-5500 |
| MCI SURVEILLANCE | (800) 463-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| AT&T | (800) 852-3788 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING ! BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

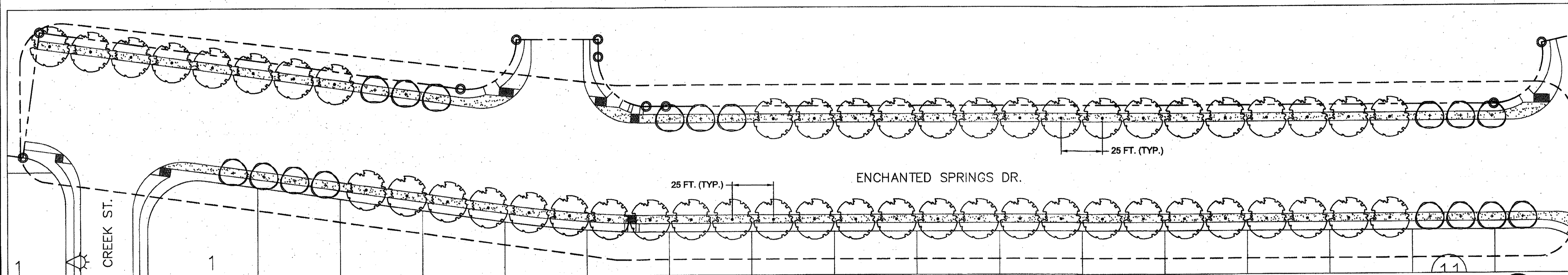
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|---|-----------|
| REFERENCES - BENCHMARKS | |
| FOUND N.G.S. SURVEY MARKER STAMPED "CHIRO 1880" | |
| 394833 (CITY OF EL PASO VERTICAL DATUM) | |
| ELEVATION: 3948.71 (NAVD 88 DATUM) | |
| NOTE TO THE PROJECT BENCHMARK IS APPROXIMATELY 3,020.83 FEET FROM A 1/2 INCH REBAR FOUND FOR THE NORTHWEST CORNER OF TRACT 11, NELLIE D. MUNDY SURVEY No. 239 | |
| DATE | REVISIONS |



LANDSCAPE PLAN - SECTION C



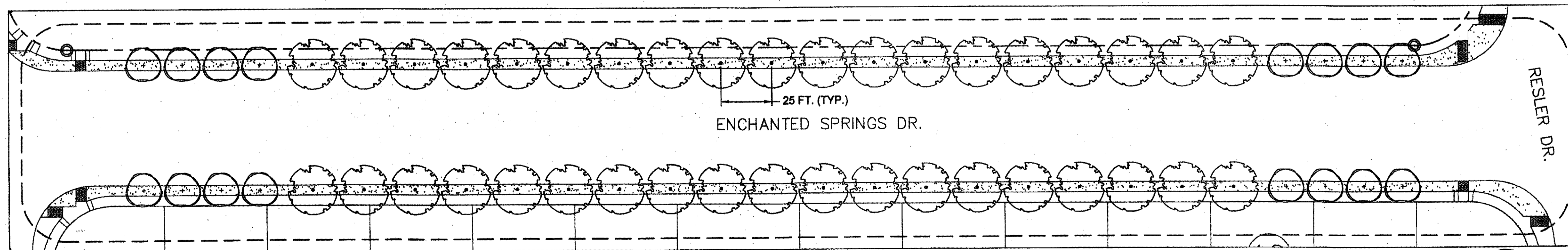
SCALE: 1" = 30'



LANDSCAPE PLAN - SECTION D



SCALE: 1" = 30'



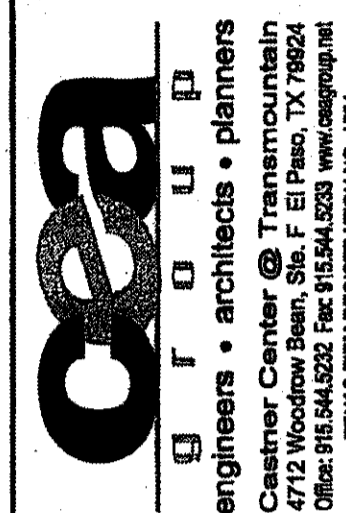
LANDSCAPE PLAN - SECTION E



SCALE: 1" = 30'

LANDSCAPE LEGEND

| SYMBOL | COMMON NAME |
|--------|--------------------------|
| | 1" CALIPER TREE |
| | LACEBARK ELM |
| | DESERT WILLOW 'BUBBA' |
| | HONEY MESQUITE |
| | DESERT MUSEUM PALO VERDE |



ENGINEER'S SEAL

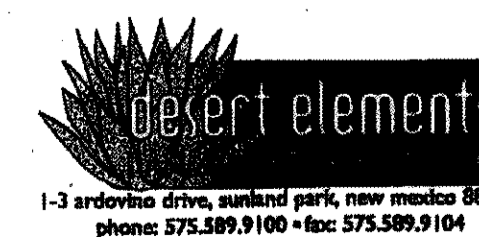
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|-------------------|-------------|
| Horizontal: | |
| Vertical: | |
| Contour Interval: | |
| DATE: | MAY 2011 |
| DESIGN BY: | S.A. |
| DRAWN BY: | S.A. |
| APPROVED BY: | J.B. |
| JOB No. | 2050-013-1D |

PROJECT TITLE
DESERT SPRINGS UNIT ONE
SUBDIVISION IMPROVEMENTS

SHEET TITLE
LANDSCAPE PLAN

SHEET NO.

L2.00



| 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 |
| AT&T | (800) 852-3786 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION (AFTER HOURS) | (915) 621-6750 |
| | (915) 240-3220 |

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

| DATE | REVISIONS | BY |
|------|-----------|----|
| | | |

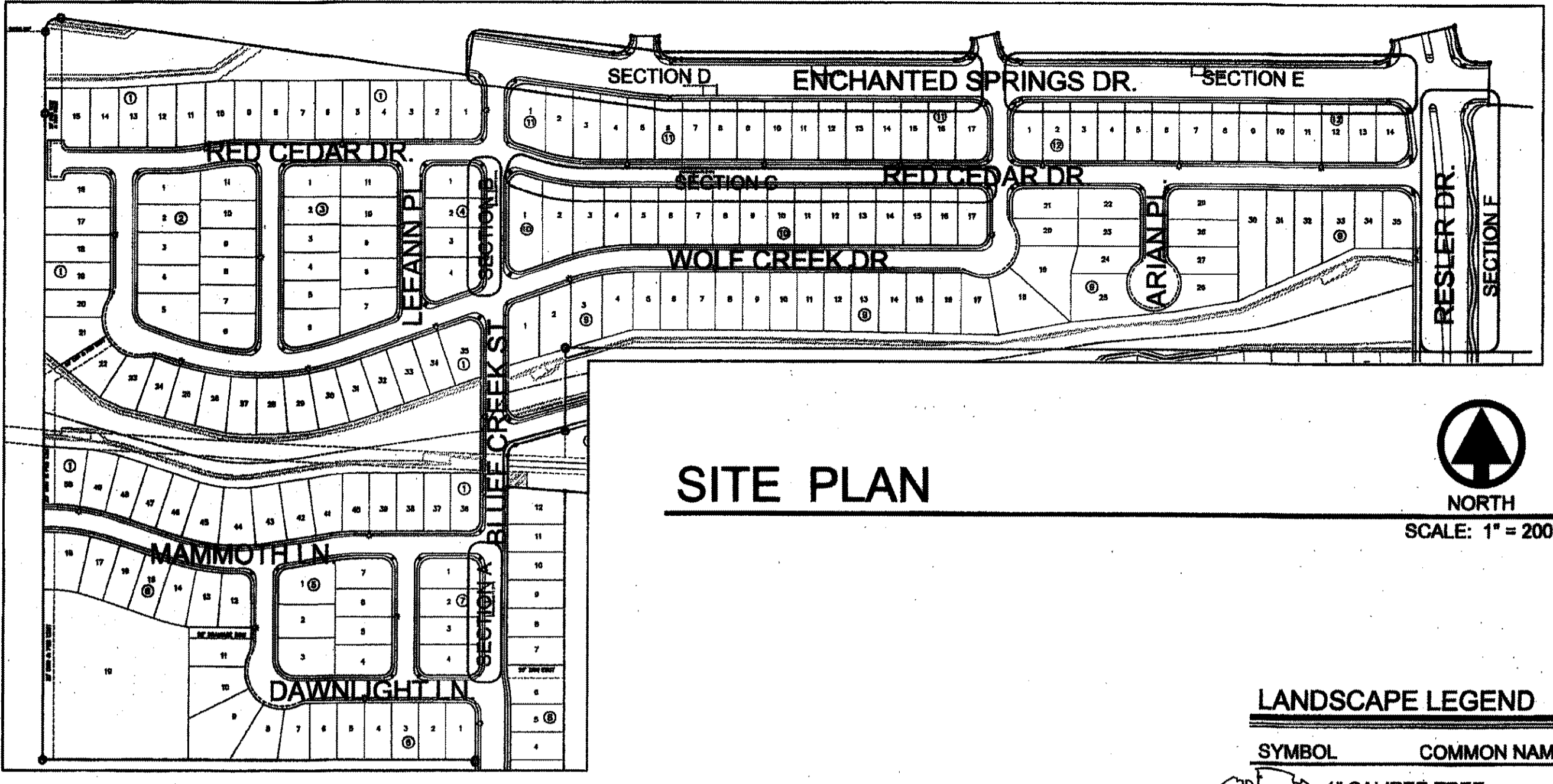
REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1980"
 ELEVATION: 3936.93 (CITY OF EL PASO VERTICAL DATUM SHOWING) (NANO 88 DATUM)
 NE TO THE PROJECT BENCHMARK IS NAD83 5272.3020 83
 CORNER OF TRACT 11, HELLE D. MANDY SURVEY, NO. 238
 DATE

CSA
 ENGINEERS • ARCHITECTS • PLANNERS
 Eastern Center @ Transmountain
 4712 Woodrow Bean, Ste. F El Paso, TX 79924
 Office: 915.541.8282 Fax: 915.544.2203 www.csaeng.com
 TEXAS PROFESSIONAL REGISTRATION NO. 0684

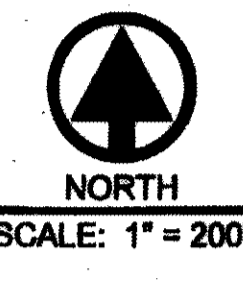
SCALE
 Horizontal Interval:
 Vertical Interval:
 DATE: MAY 2011
 DESIGN BY: S.A.
 DRAWN BY: S.A.
 CHECKED BY: J.B.
 JOB NO. 2050-013-LD

PROJECT TITLE
DESERT SPRINGS UNIT ONE
SUBDIVISION IMPROVEMENTS

SHEET TITLE
LANDSCAPE PLAN
 SHEET NO.
L3.00



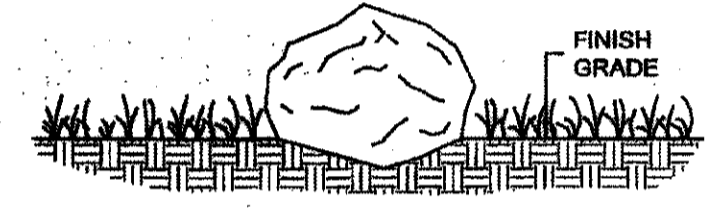
SITE PLAN



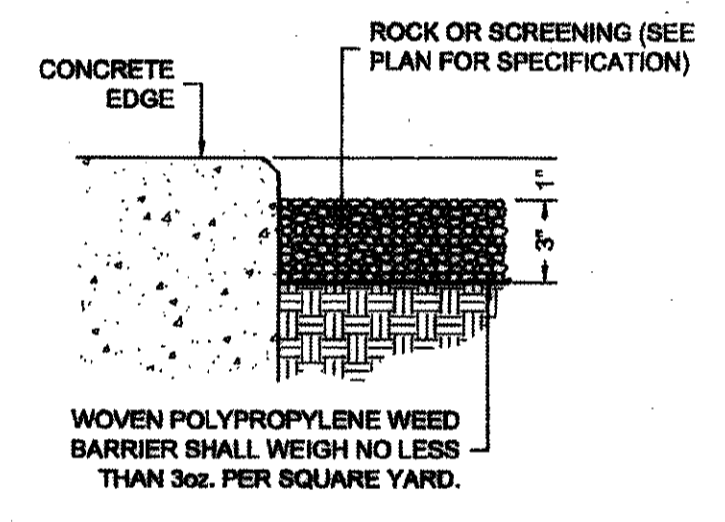
LANDSCAPE LEGEND

| SYMBOL | COMMON NAME | BOTANICAL NAME | QTY |
|---|---|---|---------------|
| 1" CALIPER TREE | | | |
| (Symbol) | LACEBARK ELM | ULMUS PARVIFOLIA | 113 |
| (Symbol) | DESERT WILLOW 'BUBBA' | CHILOPSIS LINEARIS | 48 |
| (Symbol) | HONEY MESQUITE | PROSOPIS GLANDULOSA | 24 |
| (Symbol) | DESERT MUSEUM PALO VERDE | CERCIDIUM X PARKINSONIA | 5 |
| 5 GALLON SHRUB - 18" HEIGHT MINIMUM UNLESS OTHERWISE INDICATED | | | |
| (Symbol) | DESERT SENNA | SENNA NEMOPHILA | 20 |
| (Symbol) | CHAPARRAL SAGE | SALVIA CLEVELANDII | 21 |
| (Symbol) | REGAL MIST | MUHLENBERGIA CAPILLARIS | 41 |
| (Symbol) | AUTUMN SAGE | SALVIA GREGGII | 12 |
| (Symbol) | LYNN'S LEGACY SAGE | LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY' | 18 |
| (Symbol) | TURPENTINE BUSH | ERICAMERIA LARICIFOLIA AGUIRRE | 10 |
| (Symbol) | RED YUCCA | HESPERALOE PARVIFLORA | 10 |
| 1 GALLON SHRUB - GROUND COVER | | | |
| (Symbol) | MEXICAN FEATHER GRASS | NASSELLA TENUISSIMA | 40 |
| (Symbol) | POWIS CASTLE | ARTEMISIA 'POWIS CASTLE' | 13 |
| DECORATIVE STONES & BOULDERS | | | |
| (Symbol) | TAN BOULDERS - 2' x 2' TO 3' x 3' (50% EACH) | | 34 |
| GRAVELS & MULCHES | | | |
| (Symbol) | 3/4" FRANKLIN RED ROCK (OR EQUIVALENT), 3" DEPTH W/ DEWITT PRO-5 WEED BARRIER | | 32,259 SQ.FT. |
| (Symbol) | 1" - 3" GREY ROCK, 3" DEPTH W/ DEWITT PRO-5 WEED BARRIER | | 1,300 SQ.FT. |

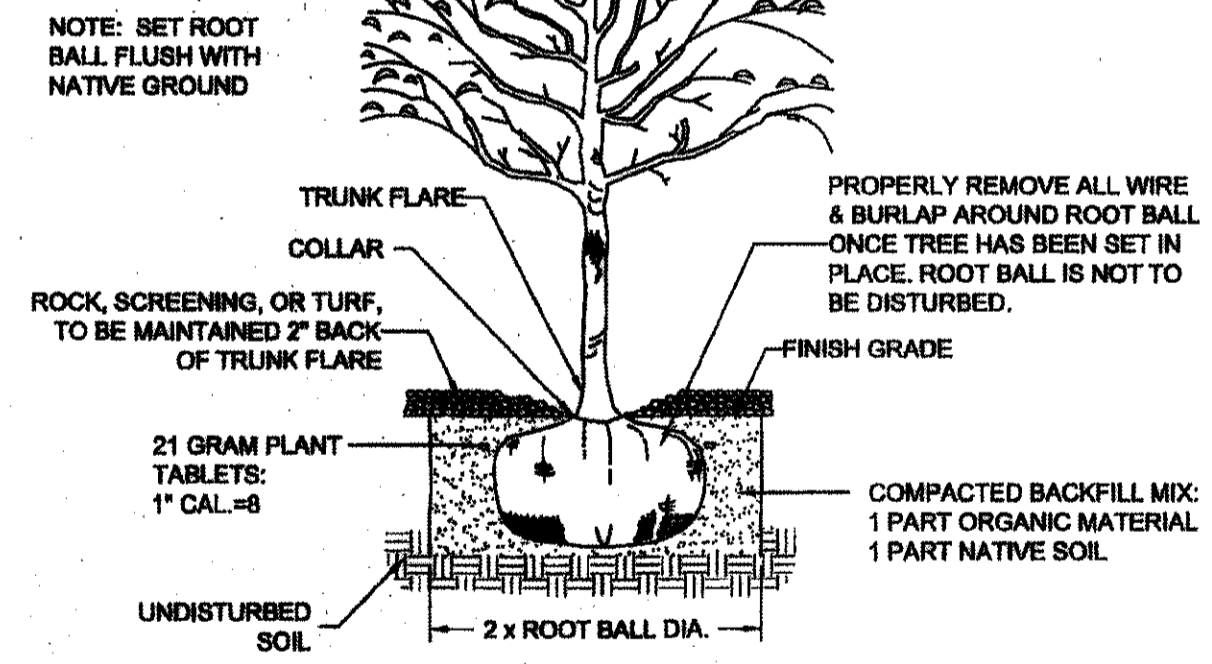
NOTE: ALL BOULDERS TO BE BURIED AT WIDEST POINT



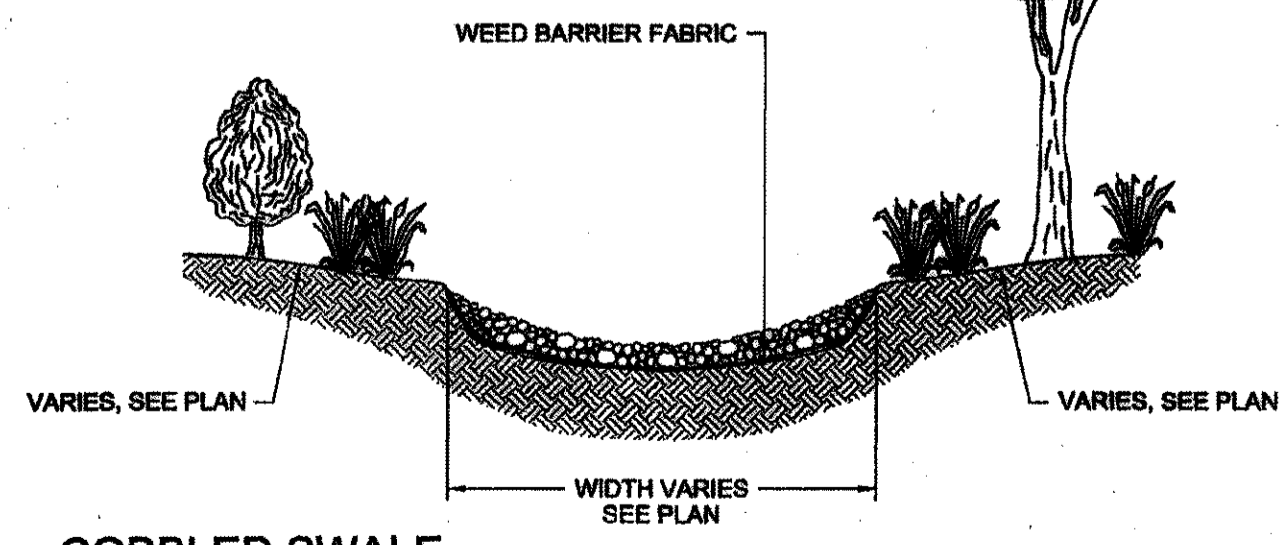
BOULDER PLACEMENT DETAIL
 NOT TO SCALE



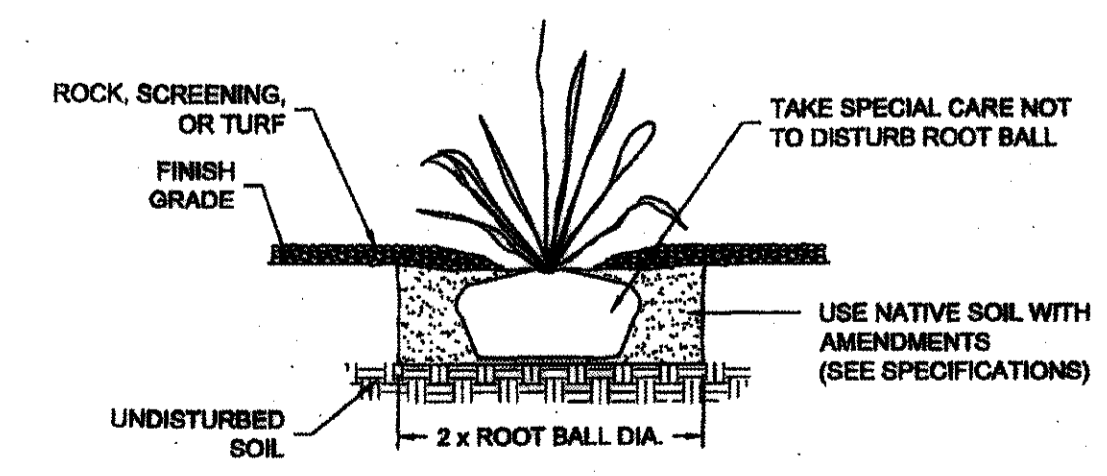
ROCK/SCREENING DETAIL
 NOT TO SCALE



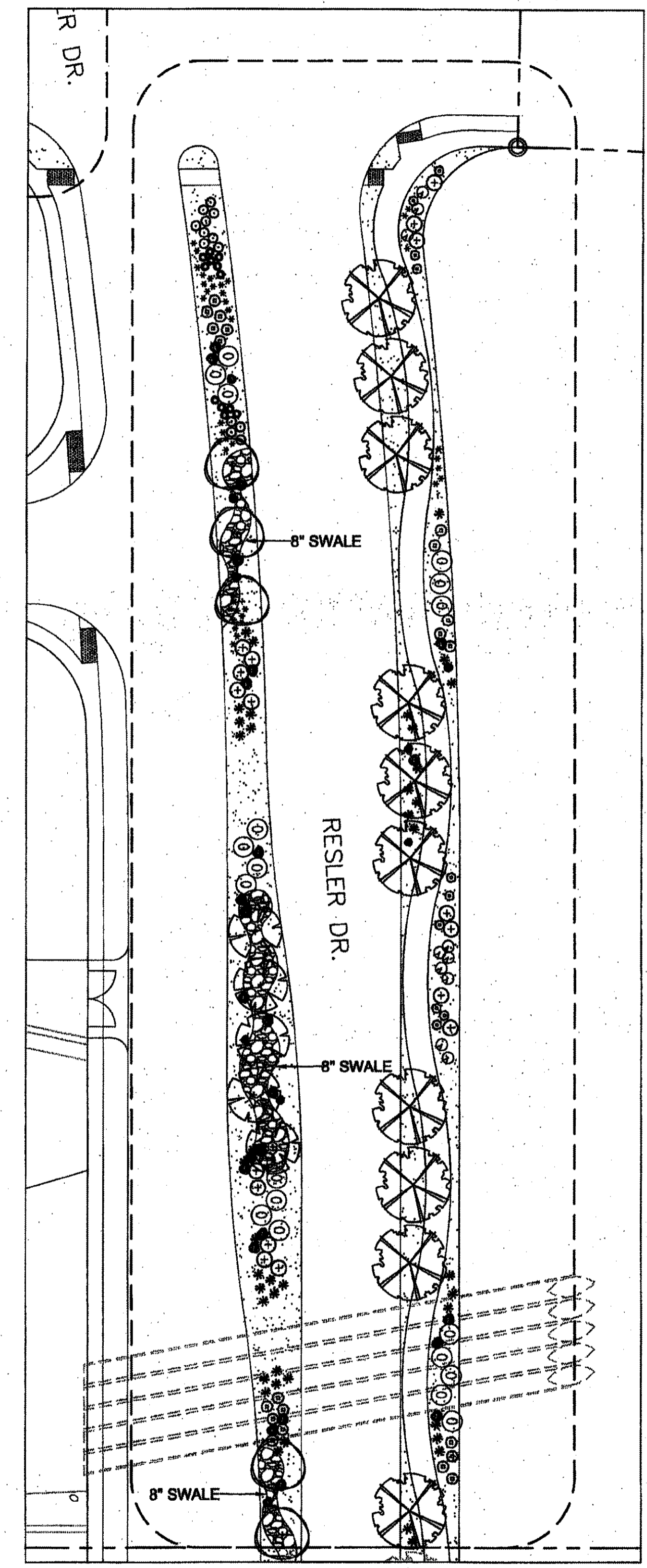
TREE PLANTING DETAIL
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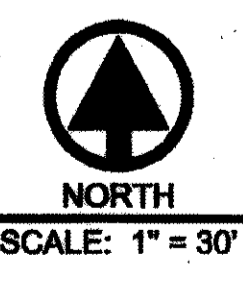
COBBLED SWALE DETAIL
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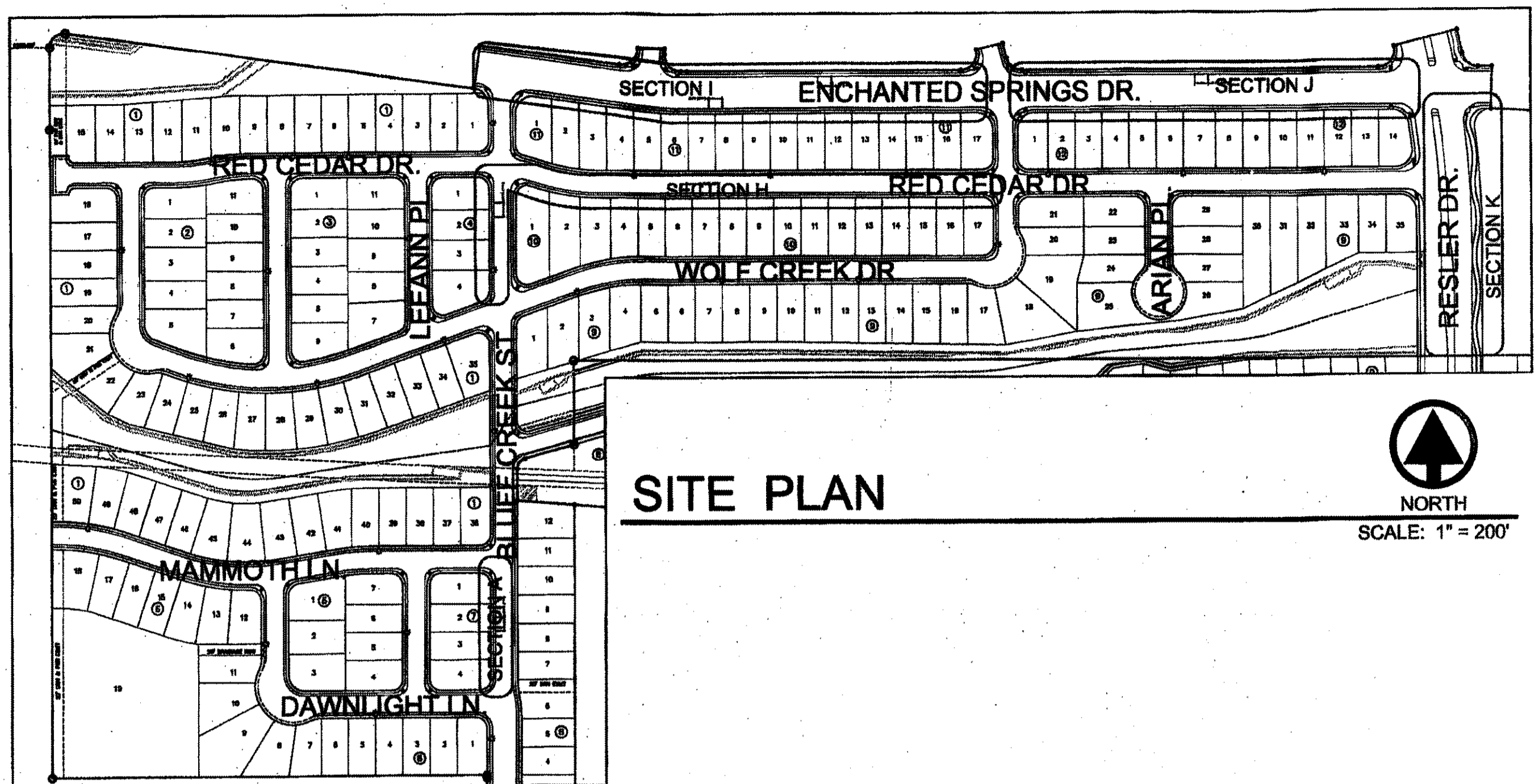


SHRUB PLANTING DETAIL
 NOT TO SCALE



LANDSCAPE PLAN - SECTION F

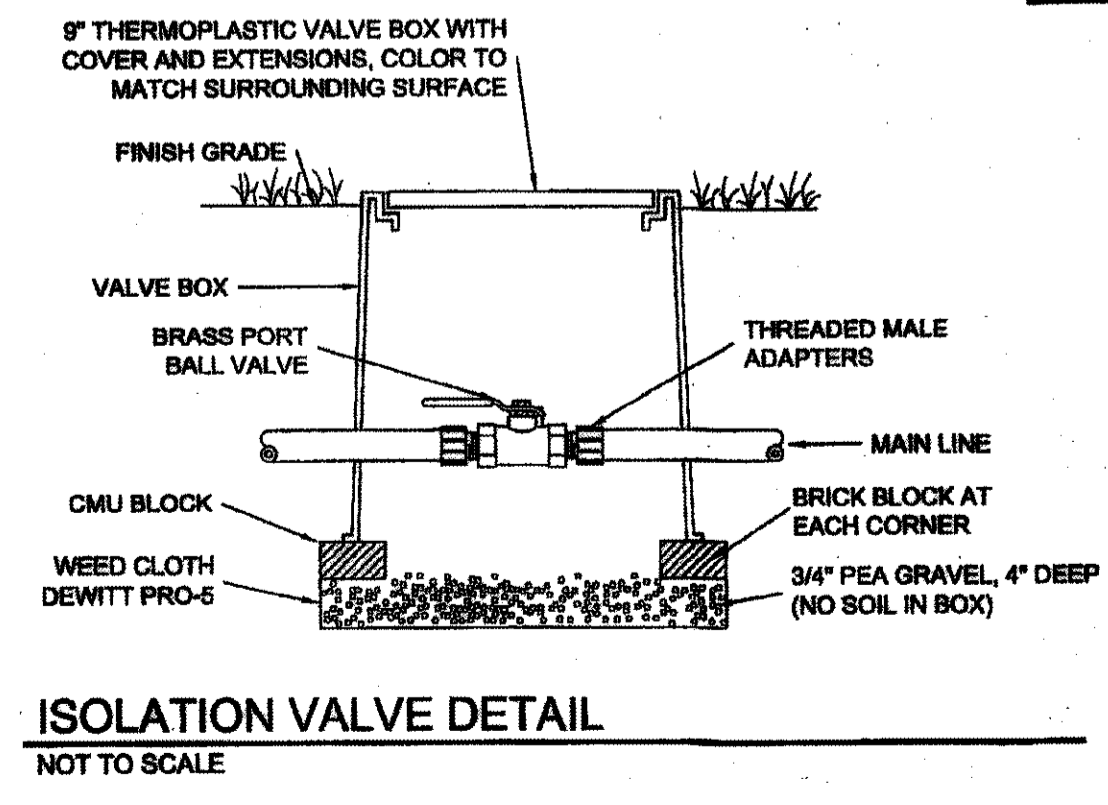
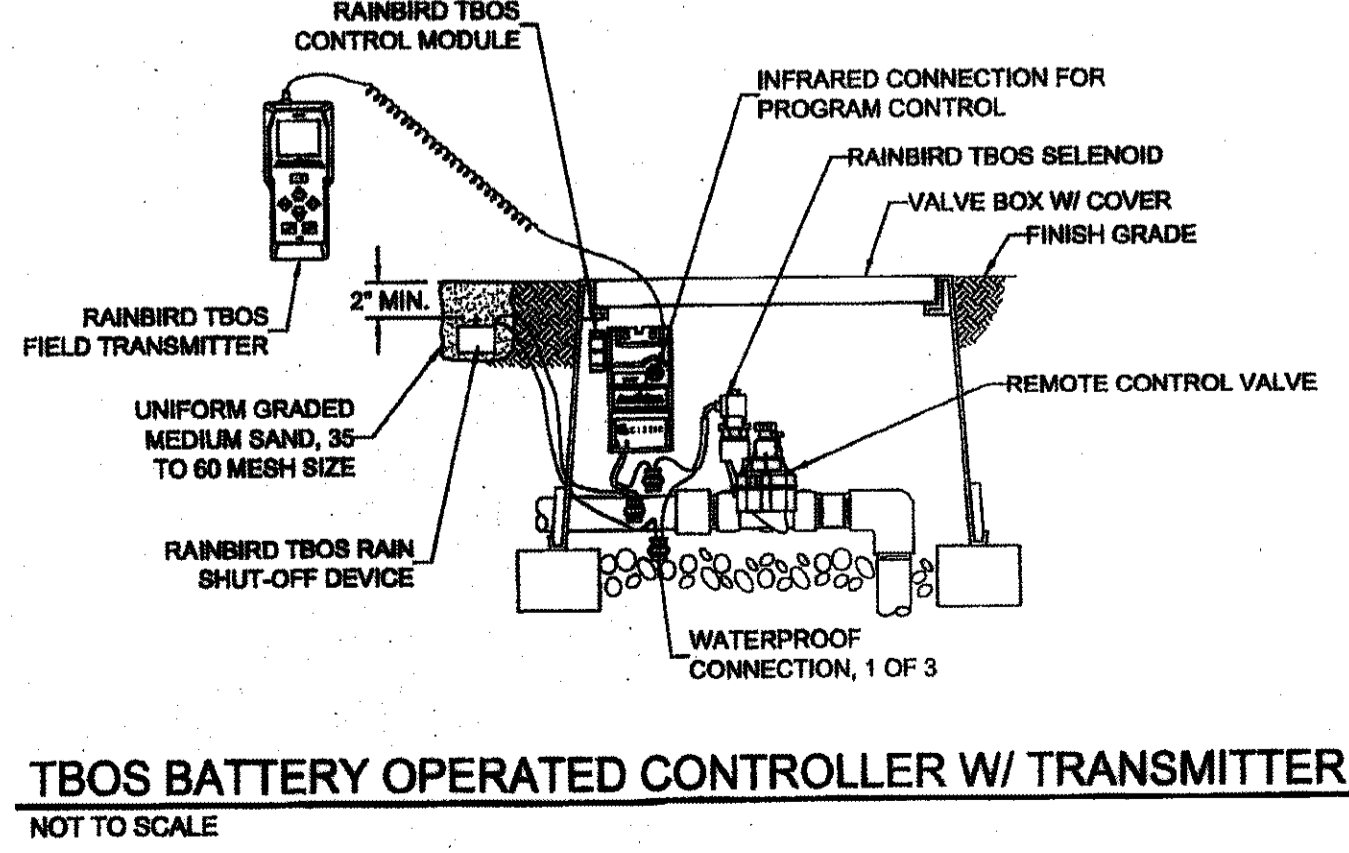
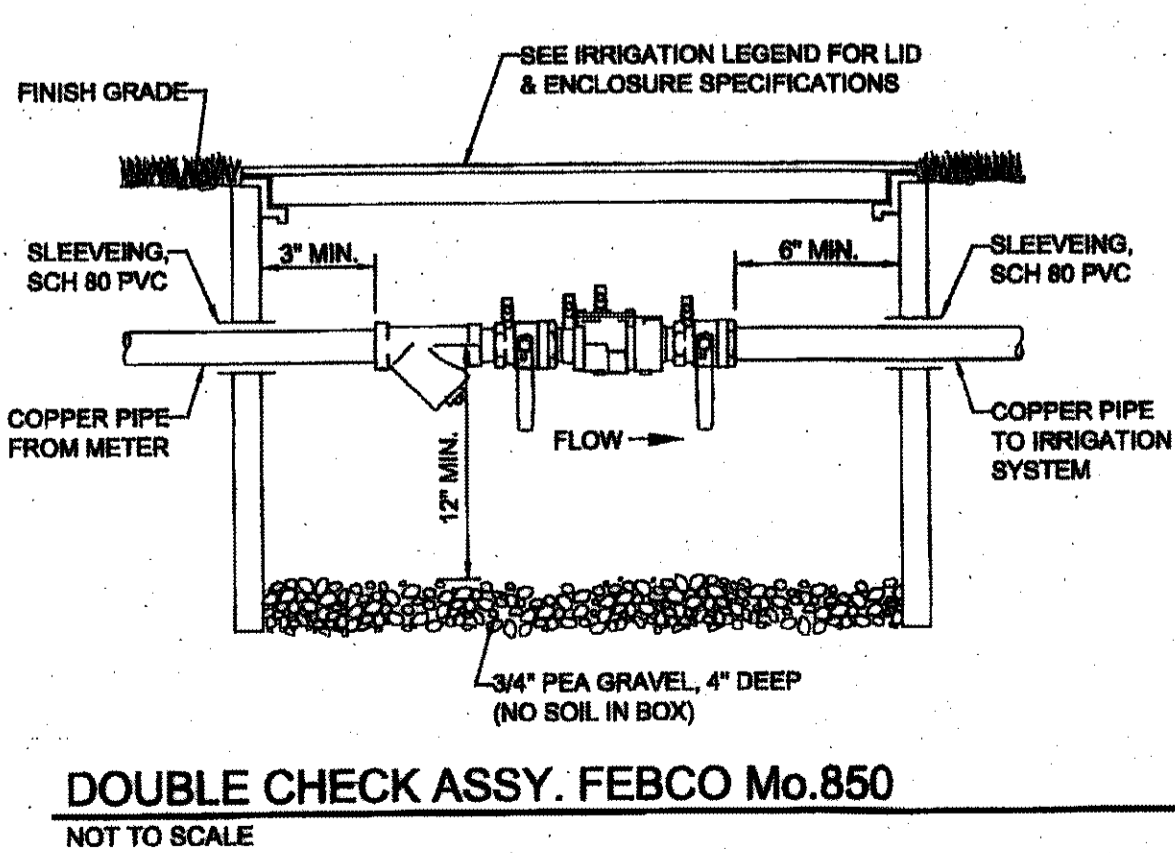
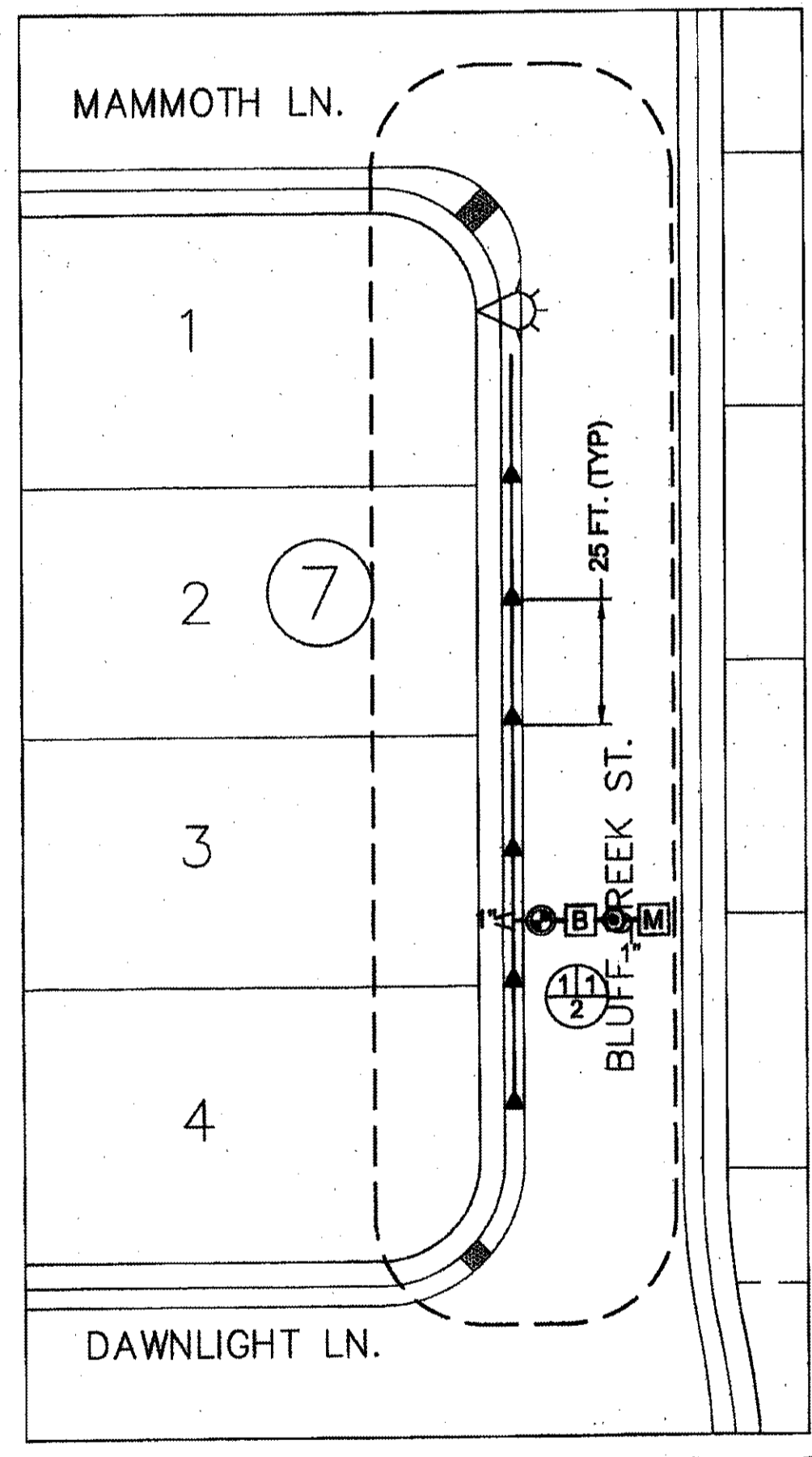
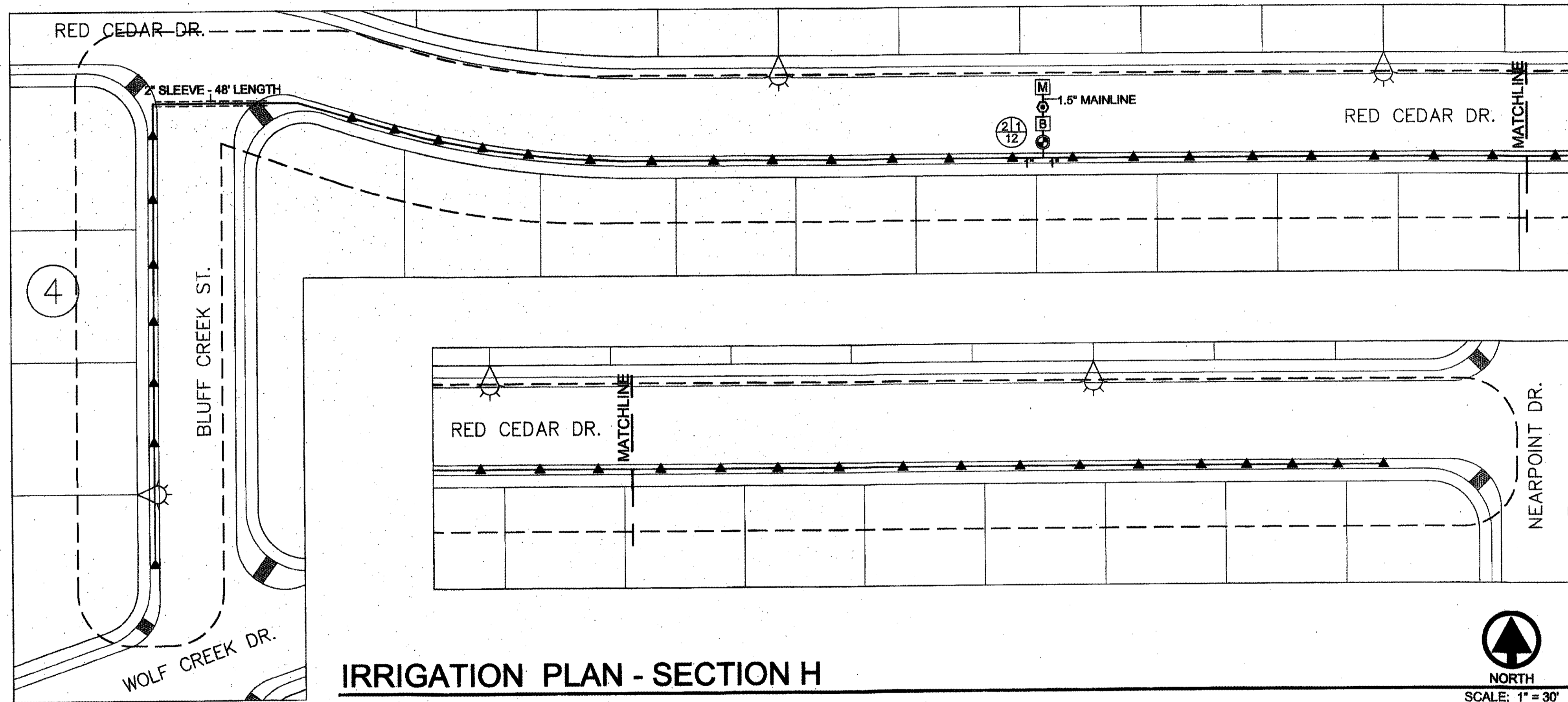




IRRIGATION LEGEND

| SYMBOL | ITEM |
|--------|---|
| [M] | 3/4" METER (BY OWNER) |
| [B] | 3/4" FEBCO 850 DOUBLE CHECK VALVE BACKFLOW PREVENTER W/ 17"x30" REINFORCED CONCRETE BOX W/ SCREW DOWN STEEL CHECKER LID |
| ⊙ | 1" BRASS PORT VALVE |
| ⊕ | 1" REMOTE CONTROL VALVE, RAINBIRD 100-PESB W/ AMIAD Y FILTER AFTER THE VALVE |
| ⊗ | RAIN BIRD TBOS CONTROLLER/ WITH POTTED LATCHING SELENOID & TBOS FIELD TRANSMITTER (SEE DETAIL FOR INSTALLATION) |
| — | MAINLINE - SCHED. 40 PVC |
| - - - | PVC SLEEVE - 2 SIZES LARGER THAN LATERAL OR MAIN |
| --- | LATERAL LINE - SCHED. 40 PVC - 1" UNLESS OTHERWISE INDICATED |
| ▲ | RAINBIRD XERI-BIRD 8 MULTI-OUTLET EMISSION DEVICE |
| ▲ | RAINBIRD XB-20 DRIP EMITTERS - 8 PER TREE |
| ▲ | RAINBIRD XB-10 DRIP EMITTERS - 2 PER SHRUB |
| A) | STATION NUMBER |
| B) | SIZE OF VALVE IN INCHES |
| C) | TOTAL GPM |

NOTE: ALL IRRIGATION EQUIPMENT SHOWN OUTSIDE OF LANDSCAPE AREAS DONE SO FOR SAKE OF CLARITY. ALL IRRIGATION EQUIPMENT TO BE INSTALLED IN LANDSCAPE AREA.



UTILITY LOCATOR SERVICES

| | |
|--|----------------|
| EL PASO ELECTRIC COMPANY | (915) 543-5720 |
| EL PASO ENERGY CORPORATION | (915) 466-5244 |
| EL PASO WATER UTILITIES | (915) 594-8500 |
| MCI SURVEILLANCE | (800) MCI-WORK |
| TIME WARNER COMMUNICATIONS | (915) 772-1123 |
| TEXAS GAS SERVICE | (915) 680-7200 |
| AT&T | (800) 852-3788 |
| U.S. SPRINT TELECOMM | (800) 521-0579 |
| CITY OF EL PASO DEPARTMENT OF TRANSPORTATION | (915) 621-6750 |
| (AFTER HOURS) | (915) 240-3220 |

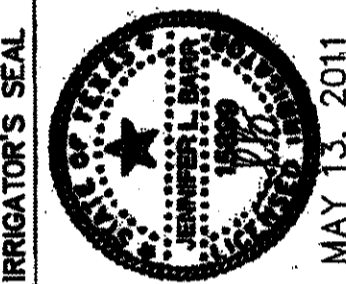
WARNING!
BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

| | |
|--|--|
| FOUND N.G.S. SURVEY MARKER STAMPED "CHMO 1980" | 38363.3 (CITY OF EL PASO VERTICAL DATUM ELEVATION) |
| 39464.1 (NAD 88 DATUM) | |

SEE TO THE ABOVE BENCHMARKS. MARKS SET BY THE CITY OF EL PASO DEPARTMENT OF TRANSPORTATION CORNER OF TRACT 11, NELLE D. MUNDY SURVEY No. 239

| | |
|------|-----------|
| DATE | REVISIONS |
| | |



SCALE

Horizontal: _____

Vertical: _____

Contour Interval: _____

DATE: MAY 2011

DESIGN BY: S.A.

DRAWN BY: S.A.

CHKD. BY: J.B.

APPVD. BY: J.B.

JOB No. 2050-013-LD

PROJECT TITLE

DESERT SPRINGS UNIT ONE

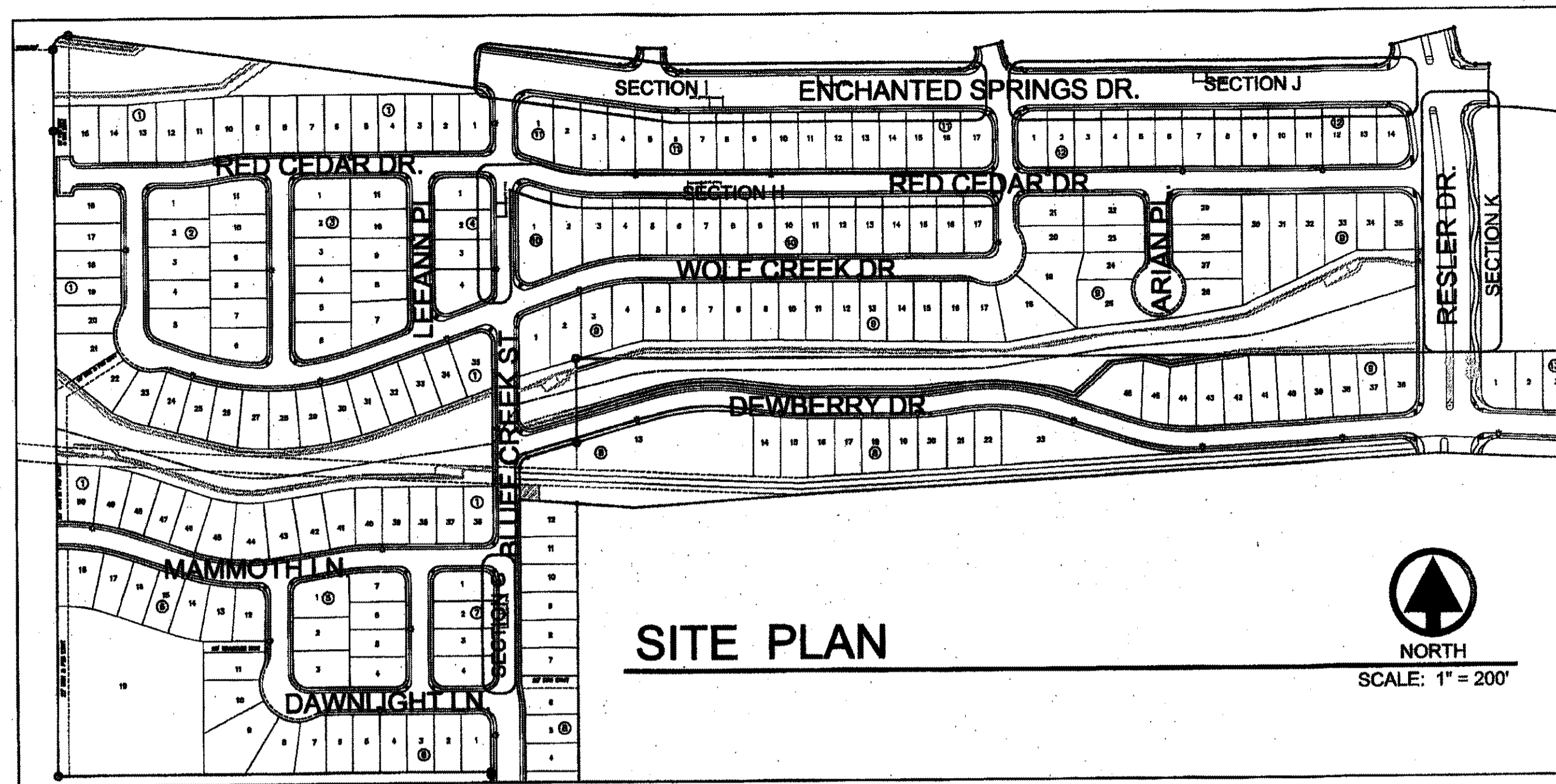
SUBDIVISION IMPROVEMENTS

SHEET TITLE

IRRIGATION PLAN

SHEET NO.

L4.00



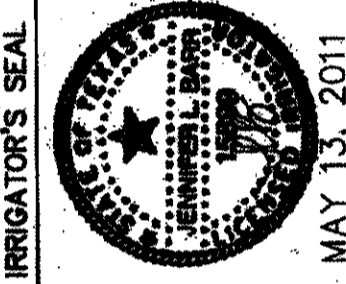
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| UTILITY LOCATOR SERVICES | |
|--|----------------|
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 1-800-344-8377
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
 FOUND N.G.S. SURVEY MARKER STAMPED "CHINO 1987"
 3803.93 (CITY OF EL PASO VERTICAL DATUM)
 ELEVATION: 3946.11 (NAVD 88 DATUM)
 WE TO THE PROJECT BENCHMARK IS POSITIVE 5,008.83
 FEET FROM NAVD 88 BENCHMARK FOUND FOR THE NORTHWEST
 CORNER OF TRACT 11, NELLIE D. MANNY SURVEY No. 239



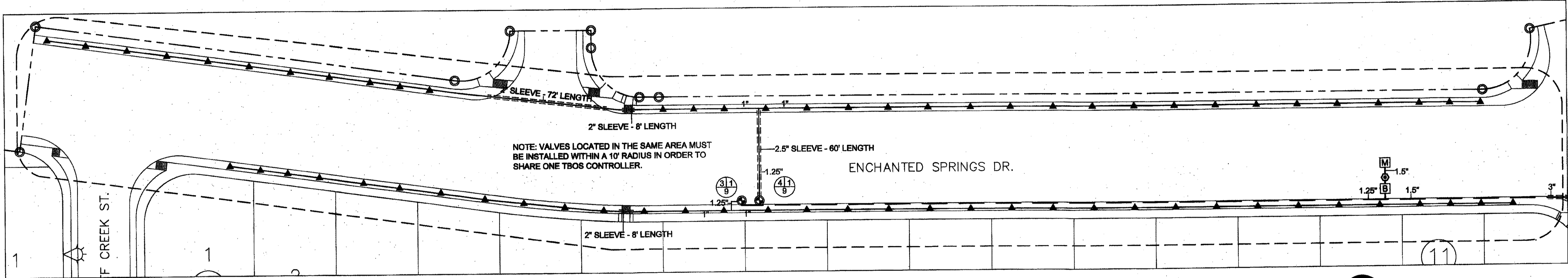
SCALE
 Horizontal: _____
 Vertical: _____
 Contour Interval: _____
 DATE: MAY 2011
 DESIGN BY: S.A.
 DRAWN BY: S.A.
 CHKD. BY: JUB
 APPVD. BY: JUB
 JOB No. 2050-013-LD

PROJECT TITLE
 DESERT SPRINGS UNIT ONE
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 IRRIGATION PLAN

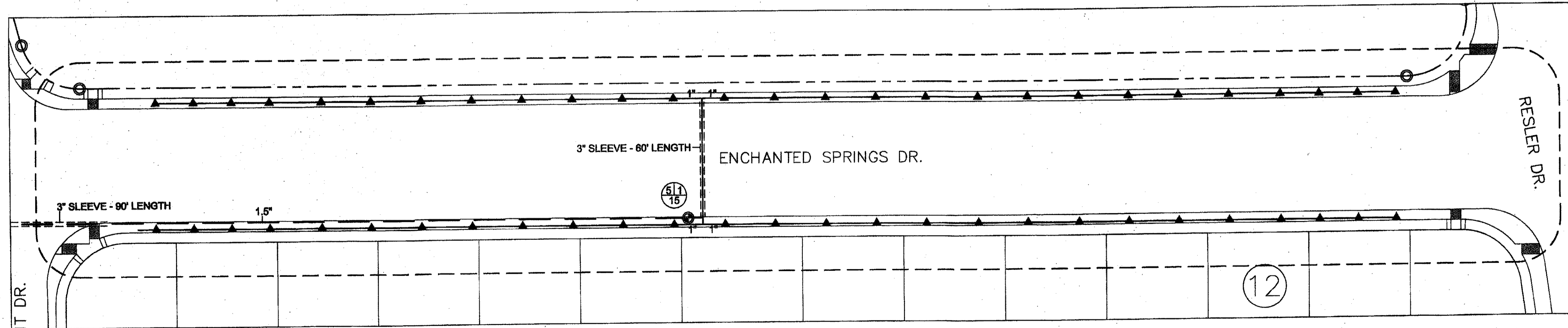
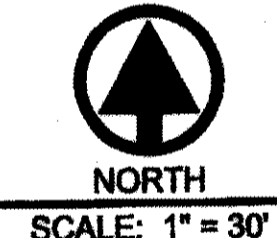
SHEET NO.

L5.00



NOTE: ALL IRRIGATION EQUIPMENT SHOWN OUTSIDE OF LANDSCAPE AREAS DONE SO FOR SAKE OF CLARITY. ALL IRRIGATION EQUIPMENT TO BE INSTALLED IN LANDSCAPE AREA.

IRRIGATION PLAN - SECTION I



IRRIGATION PLAN - SECTION J

