

PROTECTIVE COVENANTS  
TIERRA DEL ESTE UNIT SIXTY SEVEN  
TO THE CITY OF EL PASO, TEXAS

PART A. PREAMBLE

RANCHOS REAL XVI, LLC, being the owner of the following described property in El Paso County, Texas:

All of TIERRA DEL ESTE UNIT SIXTY SEVEN; an Addition to the City of El Paso, El Paso County, Texas, as the same is shown and designated on the plat of said addition recorded in the office of the Clerk of El Paso County, Texas.

does hereby establish restrictive covenants on the said property as follows:

PART B. AREA OF APPLICATION

- B-1 FULLY PROTECTED RESIDENTIAL AREA. The residential area covenants in Part C, in their entirety, shall apply to all Lots and Blocks in TIERRA DEL ESTE UNIT SIXTY SEVEN, EXCEPT those noted in Parts B-2 and B-3.
- B-2 PONDING AREA. Lot 14, Block 348, is a Ponding Area for storm water and are restricted to such use by the City of El Paso.
- B-3 PARK SITES. Lot 1, Block 315 and Lot 1, Block 333, have been designated as a City parks sites and are hereby excluded from these covenants.

PART C. RESIDENTIAL AREA COVENANTS

- C-1 LAND USE AND BUILDING TYPE. No lot shall be used except for residential purposes. No structure shall be erected, altered, or placed or be permitted to remain on any of said lots, or any part thereof, other than one detached single family dwelling not to exceed two stories in height, together with a private garage, carport or other form of off street parking and other customary appurtenances to private dwellings. No more than one residential structure shall be erected on any lot or site shown on the plat map of said property. The number of lots is restricted to the 823 lots shown on the plat map for TIERRA DEL ESTE UNIT SIXTY SEVEN.
- C-2 PARK LOTS. Lots 2 through 5 of Block 315 are required to have the front of the house facing the park with vehicular access from the alley at the rear of the lot. The rockwall to the back of the house must be located five (5) feet inside the property line. Refer to Exhibit "A" herein attached for details.
- C-3 ARCHITECTURAL CONTROL. No building shall be erected, placed or altered on any lot until the construction plans and specifications and a plan showing the location of the structure have been approved by the Architectural Control Committee as to quality of workmanship and materials, harmony of external design with existing structures, and as to location with respect to topography and finish grade elevation. After such location with respect to topography and finish grade elevation has been approved and the finish grade of the lot has

been completed, such finish grade shall not be altered, changed or disturbed. Approval shall be as provided in Part D.

- C-4 DWELLING SIZE. The ground floor of the main structure, exclusive of one-story open porches and garages, shall not be less than 1,000 square feet for a one-story dwelling, and the combined living area of a 1 1/2 or 2 story house shall not be less than 1,000 square feet for up and downstairs. However, in no event shall the ground floor of a 1, 1 1/2 or 2 story house be less than 750 square feet. The Architectural Control Committee shall be empowered to grant individual waivers not to exceed 10% of the above minimum area requirements, provided the proposed dwelling shall in general reflect credit to the neighborhood.
- C-5 BUILDING LOCATION. No building shall be located on any lot nearer to the front lot line or nearer to the side street line than the minimum building setback lines required for these lots as set in the City of El Paso Zoning Ordinance. In any event, no building shall be located on any lot nearer than 10 feet from the front lot line, however, in no event shall the garage be located closer than 20 feet from the property line. No building shall be nearer than 10 feet from the side street lines; nor nearer than 5 feet to interior lot lines except, however, of setback waivers granted by the City of El Paso for this subdivision and/or that a garage located at least 65 feet from the property line may be placed not nearer than 3 feet from the lot line of interior lots. For the purposes of this covenant, boxed and bay windows, eaves, steps, and open porches or stoops, and projections of fireplaces and windows shall not be considered as a part of the building, provided, however, that this shall not be construed to permit any portion of a building on a lot to encroach upon another lot.
- C-6 LOT AREA AND WIDTH. No dwelling shall be erected or placed on any lot having an average width of less than forty five (45) feet, nor shall any dwelling be erected or placed on any lot having an area of less than four thousand five hundred (4,500) square feet. No lot shall be re-subdivided to an average width of less than forty-five (45) feet.
- C-7 LOT DRAINAGE. All lots within the subdivision, whether vacant, with buildings under construction or with completed buildings (occupied or unoccupied) shall be designed and constructed to provide positive lot drainage as required by the pertinent governmental authorities at the time from the rear of the lot to the street in front of the lot. This positive lot drainage to the street in front of each lot must be maintained at all times by the Owner. Driveways, patios, walks, landscaping (including without limitation, grass, bushes, trees, brick, rock or other materials), and all other portions of each lot shall be constructed, installed and shall be maintained to drain away from the main building structure, and swaled, sloped or slanted through the rear, side and front yards so as to drain to the street in front of the lot. If necessary, roof drainage will be collected in gutters and diverted toward the front of the lot. Walls or other structures should not be placed along the side of any dwelling in a manner that would block or impair drainage from the rear of the lot to the street. Any variance from this drainage requirement shall only be made with the express written approval of the Architectural Control Committee. FAILURE BY AN OWNER (INCLUDING BUILDERS) TO MAINTAIN THE PROPER DRAINAGE CAN RESULT IN DAMAGE TO THE IMPROVEMENTS (FOUNDATIONS, GARDEN AND/OR RETAINING WALLS, POOLS, WALKS, ETC.) FROM SETTLING AND/OR EROSION ON THE SUBJECT LOT AND ON SURROUNDING LOTS.
- C-8 SLOPE CONTROL. As determined by the pertinent governmental agencies some lots may have designed, sloped area within the lot located at the side or rear of the lots. Soil conditions

and/or storm drainage requirements, as stated by pertinent governmental authorities at the time, may dictate that the sloped areas be secured by a slope stabilization treatment and/or retaining walls. IT SHALL BE THE SOLE RESPONSIBILITY OF THE LOT OWNER WHOSE PROPERTY INCLUDES A SLOPED AREA(S) TO MAINTAIN AND/OR STABILIZE THE SLOPED AREA(S). Drainage of sloped area shall typically be controlled within the lot and drain to the street in front of the lot. However, if rear or side yard drainage easements are provided across adjoining lots connecting to subdivision streets or drainage rights of way, then the slope drainage may be diverted to flow through the easements to a connecting street or drainage right of way. Each property owner shall be responsible for maintenance of that portion of any private drainage easement within their property. FAILURE BY THE OWNER TO MAINTAIN OR STABILIZE THE SLOPE AND/OR DRAINAGE EASEMENT, IF ANY, FOR PROPER DRAINAGE MAY RESULT IN DAMAGE TO IMPROVEMENTS (FOUNDATIONS, GARDEN AND/OR RETAINING WALLS, POOLS, WALKS, ETC.) ON THE SUBJECT LOT AND ON SURROUNDING LOTS.

Storm drainage, landscape irrigation, swimming pool drainage or overflow or any other waterflow on or over the lots SHALL FLOW TO THE STREET ONLY AND NOT OVER SIDE OR REAR SLOPED AREAS WHETHER SAID SLOPES ARE WITHIN THE PROPERTY LINES OF THE LOT OR NOT. All surface drainage of the flat buildable areas of the lot shall be controlled and maintained as provided in paragraphs C-6 and C-7 herein.

Landscaping of the sloped areas at the side or rear of the lots may be permitted with the use of regional desert plants that can survive on the natural rainfall upon the slope. LANDSCAPE IRRIGATION OF ANY TYPE IS EXPRESSLY FORBIDDEN ON THE SLOPED AREAS ON THE LOTS.

- C-9 EASEMENTS. Easements for installation and maintenance of utilities and drainage facilities are reserved as shown on the recorded plat.
- C-10 NUISANCES. No noxious or offensive activity shall be carried on upon any lot, nor shall anything be done thereon which may be, or may become, an annoyance or nuisance to the neighborhood. No owner shall operate or allow to be operated on any lot or tract any electronic transmission or receiving device or equipment which interferes with normal radio, television, telephone or other electronic transmission or receiving devices or equipment of any other owners or residents in the subdivision. No owner shall erect, construct, place or permit to remain on any lot or tract any tower, antenna or similar structure which is higher than 10 feet above the highest part of the roof of the dwelling on that lot or tract. Any satellite receiving dish or similar structure shall not be visible from the street.
- C-11 TEMPORARY STRUCTURES. No structure of a temporary character (trailer, basement, tent, shack, garage, barn, or other outbuilding) shall be used on any lot at any time as a residence, either temporarily or permanently. During the period of construction within the subdivision and until all houses constructed thereon have been sold, the use of temporary construction trailers, completed homes or model homes may be used as sales offices and construction and/or administrative offices for the builders. Upon completion and sale of all houses in the subdivision, all such use will terminate and any temporary construction trailers will be removed from the subdivision. All boats, camping trailers, recreational vehicles, or mobile homes shall be placed in the rear yard.

- C-12 FENCES AND GARDEN WALLS. No fence or garden wall shall be erected, placed or altered on any lot nearer to any street than the minimum building setback line, except that on corner lots a fence may be placed or erected along the rear lot line from the interior lot line to the side street lot line, and forward along the side street lot line not farther than within 10 feet of the front of the dwelling. This provision shall not preclude any necessary retaining walls. Masonry fences only shall be permitted across the rear of any lot, the interior lot line of any lot, or along the side yard of a corner lot where such side yards abut on a side street.
- C-13 LANDSCAPING. All parkways (area between the curb and sidewalk) abutting each lot shall be landscaped prior to the completion of structures. Landscaping shall comply with the City of El Paso standards.
- C-14 COMPLETION OF STRUCTURES. A structure, once commenced, shall be completed as to exterior in accordance with the provisions of these restrictions in not more than 180 days from the date of commencement.
- C-15 SIDEWALKS AND RAMPS. Every person constructing a residence on any lot in said subdivision shall also place a sidewalk across the front of the lot, or front parking. Sidewalks shall be placed along side yards of corner lots and along backyards in the case of double frontage lots. All sidewalks and ramps shall meet all State of Texas and City of El Paso accessibility requirements and corner lots shall provide accessible ramps from the sidewalks to the street right-of-way meeting the requirements of the Americans with Disabilities Act and all State of Texas and City of El Paso rules, regulations and design standards.
- C-16 GARAGES. It is required that every house in the subdivision shall have at least a one (1) car garage.
- C-17 SIGHT DISTANCE AT INTERSECTIONS. No fence, hedge or shrub planting which obstructs sight lines at elevations between 2 and 6 feet above the roadways shall be placed or permitted to remain on any corner lot within the triangular area formed by the street property lines and a line connecting them at points 25 feet from the intersection of the street lines, or in the case of a rounded property corner from the intersection of the street property lines extended. The same sight line limitations shall apply on any lot within 10 feet from the intersection of a street property line with the edge of a driveway or alley pavement. No trees shall be permitted to remain within such distances of such intersections unless the foliage line is maintained at sufficient height to prevent obstruction of such sight lines.
- C-18 MISCELLANEOUS. Except as required by ordinance during construction, no privy shall be placed upon any lot in said subdivision. No signboard or other visible advertisement larger than one square foot may be placed upon any lot, other than signs pertaining to the sale of lots or the builder's signs which may be placed upon the premises during the construction of improvements and sales of the property. Marketing and directional signs pertaining to the sale of houses may also be placed on lots other than those on which houses are being constructed. No excavations shall be placed on the said property for the purpose of obtaining sand, rock, clay, dirt, coal, or gravel, whether for profit or otherwise. No hog pen, stockyard or pen, or chicken pen will be allowed, whether operated for profit or otherwise.

PART D. ARCHITECTURAL CONTROL COMMITTEE

- D-1 MEMBERSHIP. The Architectural Control Committee is composed of Mr. Robert F. Foster, Mr. Douglas A. Schwartz and Mr. Scott M. Schwartz, all of El Paso, Texas. A majority of the Committee may designate a representative to act for it. In the event of the death or resignation of any member of the Committee, the remaining members of the Committee shall have full authority to designate a successor. None of the members of the Committee, nor their designated representatives, shall be entitled to any compensation for service performed pursuant to this covenant. At any time, the then record owners of a majority of the lots shall have the power through a duly written recorded instrument to change the membership of the Committee or reduce or restore to it any of its powers and duties.
- D-2 PROCEDURE. The Committee's approval or disapproval as required in these covenants shall be in writing. In the event the Committee, or its designated representative, fails to approve or disapprove plans and specifications within 30 days after they have been submitted to it, or if no suit to enjoin the construction has been commenced prior to the completion of the improvements, approval will not be required and the related covenants shall be deemed to have been fully complied with.
- D-3 MEMBERS COMPENSATION AND LIABILITY. None of the members of the Committee or its designated representative shall be entitled to any compensation for service performed pursuant to this covenant. Architectural control of construction, as provided in Section C-2 and D-2 above, being largely subjective in nature, the action or non-action by the members of the Committee shall not subject any member of the Committee to personal liability nor shall the members of the Committee be charged with the responsibility of enforcement of the provisions of Section C-2 and D-2. The enforcement of architectural control provisions under C-2 and D-2 by any aggrieved party shall be as provided in Section E-3.A below, and shall be pursued solely against the person or persons allegedly violating or attempting to violate the provisions and standards specified in C-2 and D-2 of these Covenants. The members of the Architectural Control Committee shall not be proper parties to such action.
- D-4 TERMINATION OF INITIAL MEMBERSHIP. After houses have been built upon 100% of the lots in TIERRA DEL ESTE UNIT SIXTY SEVEN membership of the Committee of those persons named in D-1 shall automatically terminate without action or resignation by such initial members. The resulting vacancy or vacancies thereafter occurring shall be filled by the vote of a majority of the record owners of the lots in the subdivision. Successors to membership in the Architectural Control Committee shall be named in an instrument executed and acknowledged by the then Chairman of the Committee who shall be elected by a majority of its then members. Such instrument shall be recorded in the public records of El Paso County, Texas.
- D-5 NON-LIABILITY AND RELEASE. The Declarant, its partners, and the shareholders, officers, directors or members of any such partner; and any member of the Architectural Review Committee, or any agent, employee or other party providing architectural consulting services to the Architectural Review Committee (the "Released Parties") shall not be liable in damages to anyone submitting plans and specifications for approval by the Architectural Review Committee, any Owner or other person by reason of mistake in judgment, negligence, or nonfeasance arising out of or in connection with the approval or disapproval or failure to approve any such plans, and each Owner or other person submitting plans against, by submission of such plans and specifications, that he will not bring any action or suit against

any of the Released Parties to recover damages as above described, including, without limitation, to recover damages arising out of or in connection with flooding, natural disaster or soil conditions, or failure to comply with the applicable federal, state and municipal zoning or building ordinances, including without limitation the provisions of the zoning code of the City of El Paso which governs the construction, use, repair and maintenance of any Lot improvement (collectively called the "Applicable Laws"). Approval by the Declarant or the Architectural Review Committee shall not be deemed to be a representation or warranty that the Owner's plans and specifications (i) are free from defects (design, construction or otherwise), (ii) are free from hazards, such as flooding, natural disaster or adverse soil conditions, or (iii) comply in whole or part with applicable governmental ordinances or regulations, including, but not limited to, the Applicable Laws. It shall be the sole responsibility of each Owner, or other person submitting plans and specifications to the Architectural Review Committee or performing any construction of Lot improvements to comply with all such ordinances, regulations and codes including without limitation the Applicable Laws. Each Owner understands that due to the location and condition of the Owner's Lot there may be certain inherent risks and specific requirements including, but not limited to, those related to flooding and soil conditions. Each Owner agrees for himself, his family, guests and invitees (the "Releasing Parties") to release the Released Parties, from any and all liability arising from any damage or injury to the person or property of the Releasing Parties arising out of or in connection with each of the aforesaid matters.

PART E. GENERAL PROVISIONS

E-1 TERM. These covenants are to run with the land and shall be binding on all parties of all persons claiming under them for a period of forty (40) years from the date these covenants are recorded, unless amended as hereinafter provided in Paragraph E-2 after which time said covenants shall be automatically extended for successive periods of ten (10) years unless an instrument signed by a majority of the then owners of the lots has been recorded agreeing to change said covenants in whole or in part.

E-2 AMENDMENT. Subject to the provisions of E-3A. and B. below, the undersigned expressly reserves the right to amend these restrictions at any time as to any remaining land owned by them at such time, and such amendment shall in no way serve to release, modify or affect these protective covenants as to any land theretofore conveyed.

E-3 ENFORCEMENT.

A. These covenants shall run with the land in favor of and enforceable by any owner of any lot (or portion thereof) within the subdivision or the holder of any first lien mortgage of any such lot or portion thereof. Enforcement shall be by procedure at law or equity against any person or persons violating or attempting to violate any covenant either to restrain violation or to cover damages. In such event the person violating or attempting to violate any covenant shall be charged with all cost of suit, including reasonable attorney's fee. The authority to seek enforcement of these covenants is limited to owners of lots, which are subject to and protected by the terms of the covenants and the City of El Paso. Failure or delay to enforce any covenant herein contained shall in no event be deemed a waiver of the right to do so thereafter.

B. The City of El Paso shall have the right to enforce by proceedings at law or equity Paragraph C-1 of these Covenants. Any amendment to Paragraphs C-1 shall require approval

of the City of El Paso Economic Development Department to determine if additional parkland fees or dedication is required and such development shall not be allowed until such fees are paid. Failure to delay to enforce this provision shall in no event be deemed a waiver of the right to do so thereafter. Except as expressly set forth in this Subparagraph E-3.B, these Restrictions, Covenants, Conditions and Reservations may be amended without approval of the City of El Paso.

E-4 SEVERABILITY. Invalidation of any one of these covenants by judgment or court order shall in no way affect any of the other provisions, which shall remain in full force and effect.

E-5 ZONING. Nothing contained in these covenants shall supersede the applicable zoning laws of the City of El Paso.

PART F. ATTEST

EXECUTED THIS 6th DAY OF December, 2012.

ATTEST & SEAL NOT REQUIRED  
BY AUTHORITY OF BOARD OF  
DIRECTORS

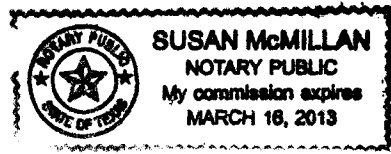
RANCHOS REAL XVI, LLC

By: [Signature]  
Douglas A. Schwartz, Manager

THE STATE OF TEXAS     )  
  )  
COUNTY OF EL PASO     )

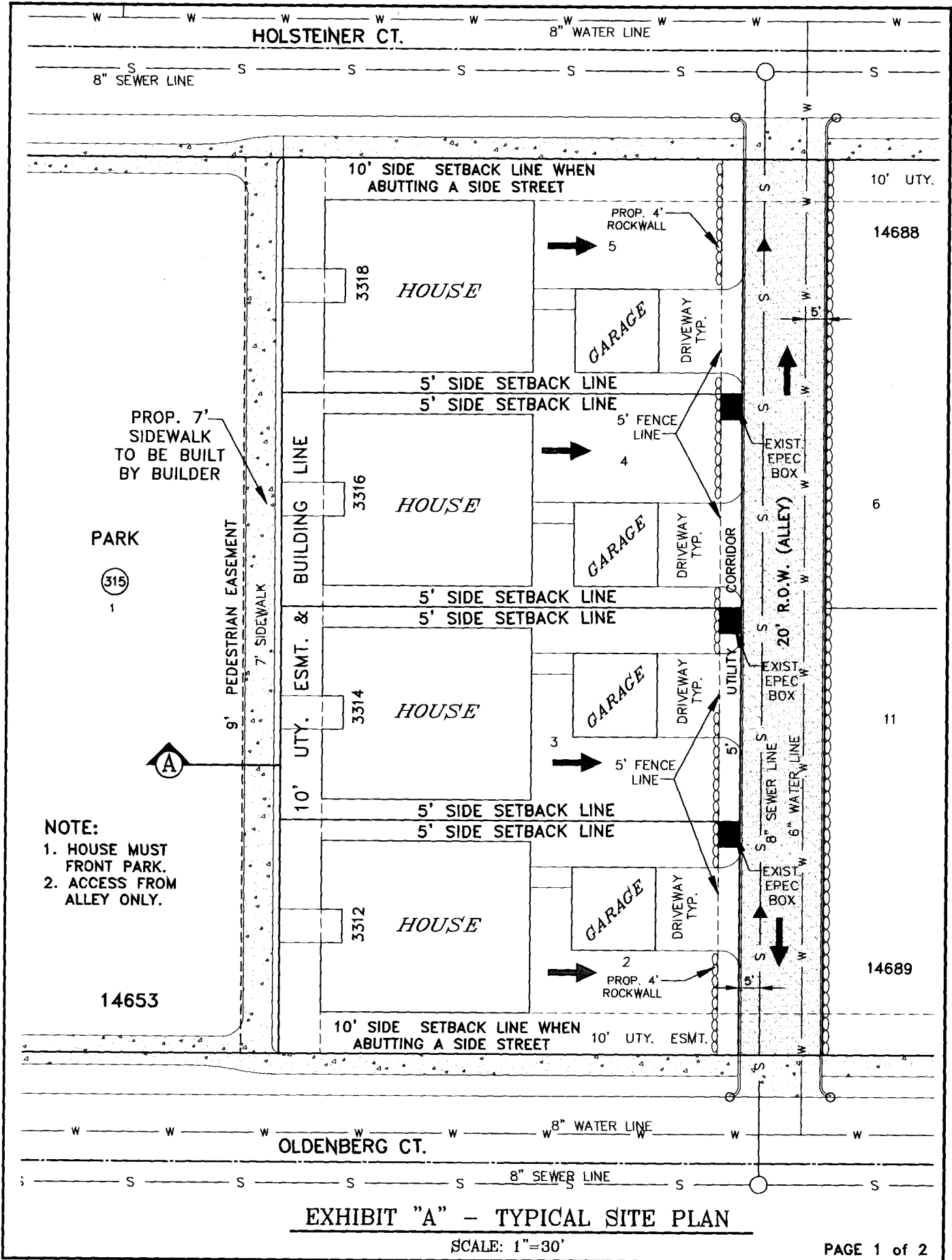
This instrument was acknowledged before me on the 6th day of December, 2012, by DOUGLAS A. SCWHARTZ, Manager of RANCHOS REAL XVI, LLC, a Texas limited liability company, on behalf of said company.

Susan McMillan  
NOTARY PUBLIC IN AND FOR TEXAS



AFTER RECORDING RETURN TO:

RANCHOS REAL XVI, LLC  
6080 SURETY, SUITE 300  
EL PASO, TEXAS 79905



HOLSTEINER CT.

8" SEWER LINE

8" WATER LINE

10' SIDE SETBACK LINE WHEN ABUTTING A SIDE STREET

10' UTILITY

3318 HOUSE

PROP. 4' ROCKWALL

GARAGE

DRIVEWAY TYP.

5' SIDE SETBACK LINE

5' SIDE SETBACK LINE

3316 HOUSE

GARAGE

DRIVEWAY TYP.

5' FENCE LINE

EXIST. EPEC BOX

PROP. 7' SIDEWALK TO BE BUILT BY BUILDER

PARK

(315)

9' PEDESTRIAN EASEMENT

7' SIDEWALK

BUILDING LINE

10' UTILITY & ESMT.

3314 HOUSE

GARAGE

DRIVEWAY TYP.

5' SIDE SETBACK LINE

5' SIDE SETBACK LINE

20' R.O.W. (ALLEY)

EXIST. EPEC BOX

8" SEWER LINE

6" WATER LINE

UTILITY CORRIDOR

5' FENCE LINE

EXIST. EPEC BOX

NOTE:

1. HOUSE MUST FRONT PARK.
2. ACCESS FROM ALLEY ONLY.

3312 HOUSE

GARAGE

DRIVEWAY TYP.

5' SIDE SETBACK LINE

5' SIDE SETBACK LINE

EXIST. EPEC BOX

PROP. 4' ROCKWALL

14653

10' SIDE SETBACK LINE WHEN ABUTTING A SIDE STREET

10' UTILITY ESMT.

OLDENBERG CT.

8" WATER LINE

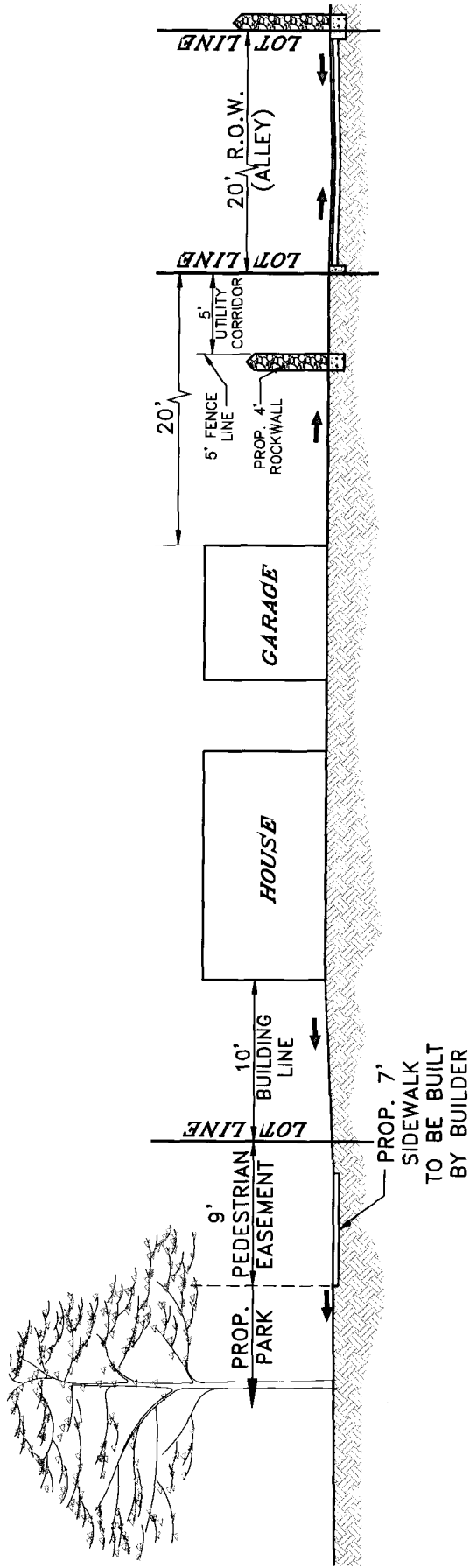
8" SEWER LINE

EXHIBIT "A" - TYPICAL SITE PLAN

SCALE: 1"=30'

PAGE 1 of 2





**EXHIBIT "A"**  
**SECTION A**  
 SCALE: 1"=10'

Doc# 20120090880  
#Pages 9 #NFPages 1  
12/11/2012 1:25:52 PM  
Filed & Recorded in  
Official Records of  
El Paso County  
Delia Briones  
County Clerk  
Fees \$48.00

10  
AV

I hereby certify that this instrument was filed on the date and time stamped hereon by me and was duly recorded by document number in the Official Public Records of Real Property in El Paso County.



*Delia Briones*

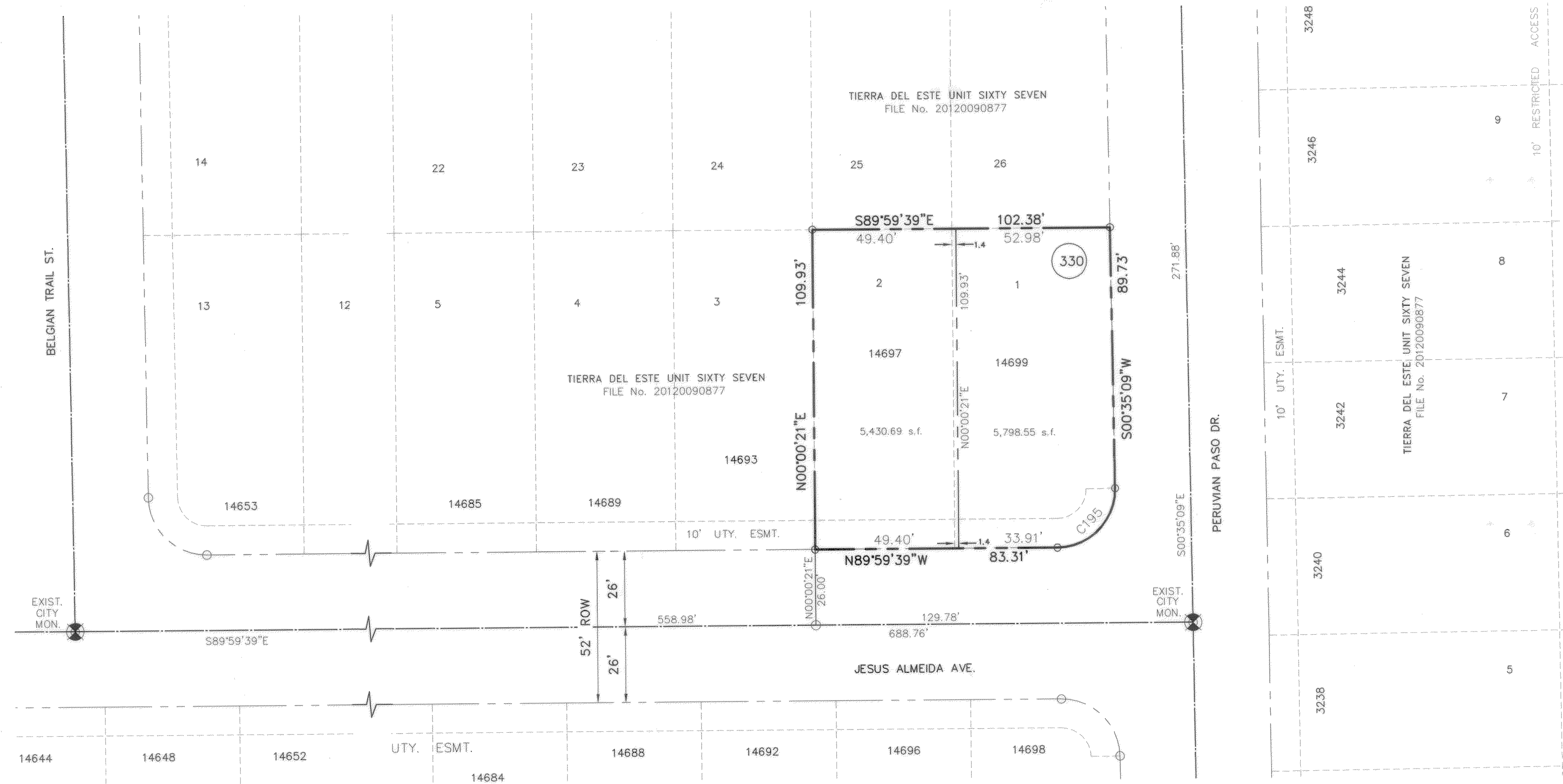
EL PASO COUNTY, TEXAS

# TIERRA DEL ESTE UNIT SIXTY SEVEN

## SECOND AMENDING SUBDIVISION

BEING AN AMENDING OF LOTS 1 AND 2, BLOCK 330,  
TIERRA DEL ESTE UNIT SIXTY SEVEN  
CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 0.2578 ACRES

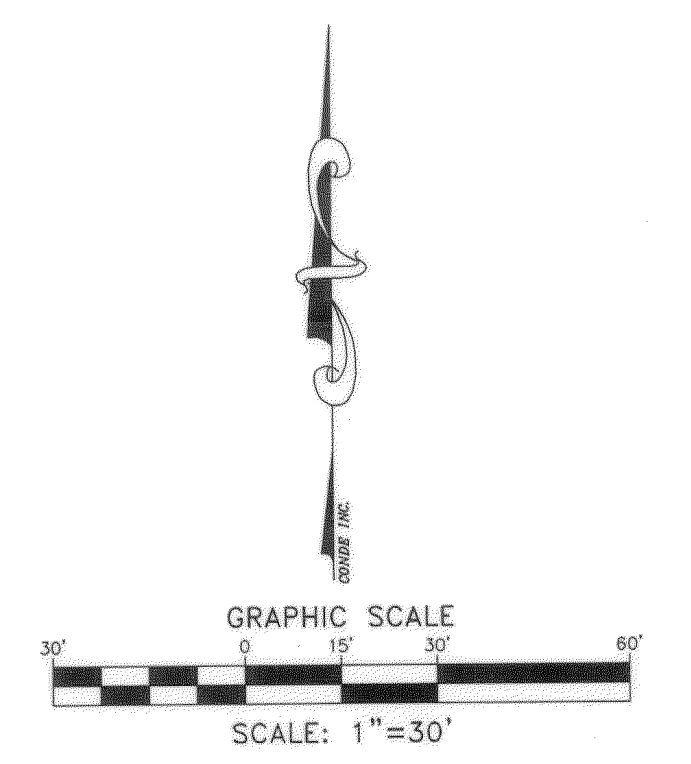
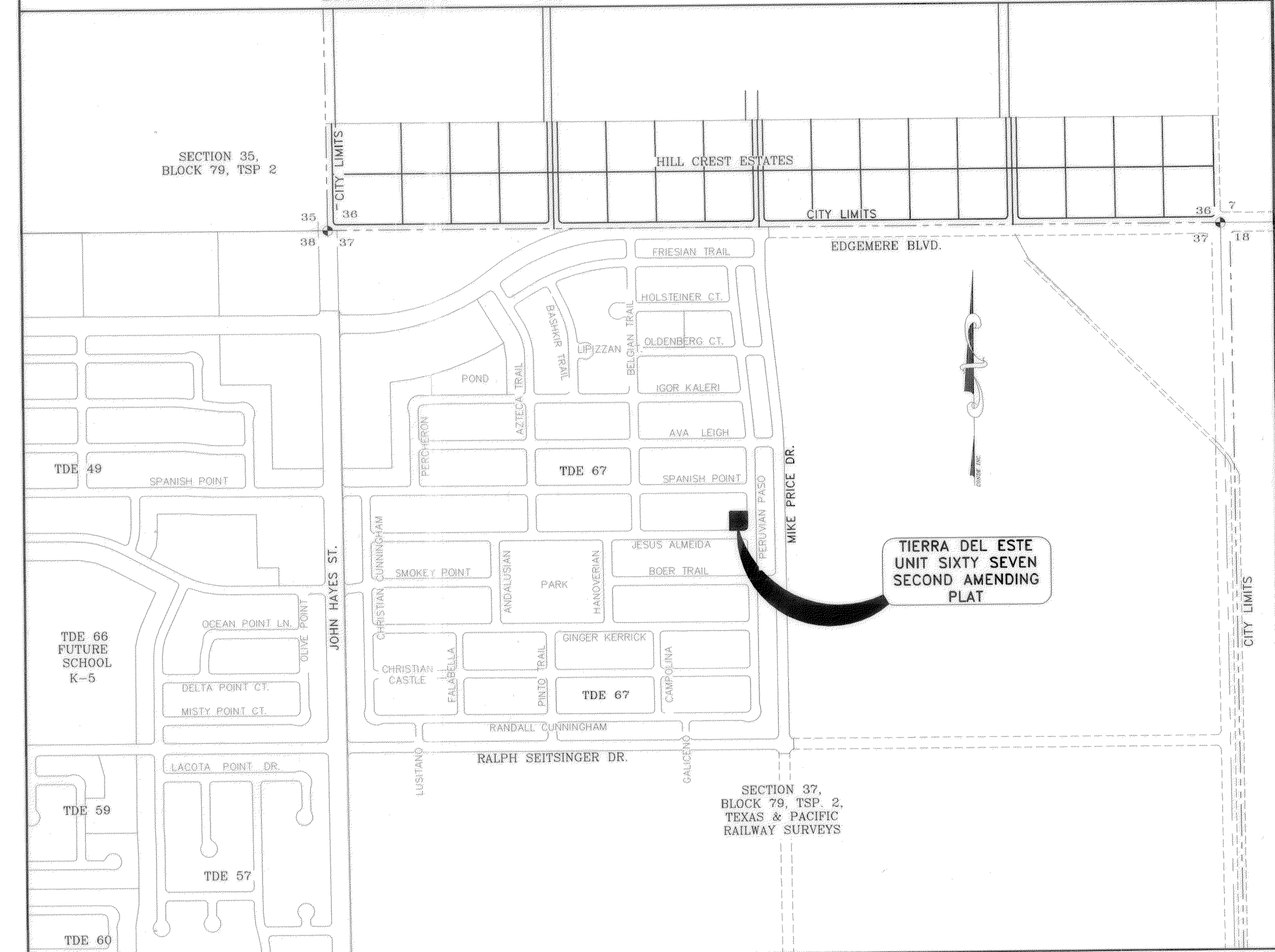
CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C195	20.00	31.62	20.21	28.43	S44°42'36"W 90°35'30"



**NOTES:**  
 WATER AND SEWER SERVICES HAVE BEEN EXTENDED TO THIS SUBDIVISION (TIERRA DEL ESTE UNIT 67A) FROM EXISTING EL PASO WATER UTILITIES/PUBLIC SERVICE BOARD FACILITIES.  
 THE INSTRUMENT ASSURING THE CERTIFICATION THAT WATER AND SEWER SERVICES FACILITIES DESCRIBED BY THIS PLAT ARE IN COMPLIANCE WITH THE MODEL RULES ADOPTED UNDER SECTION 16.343, TEXAS WATER CODE IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.  
 INSTRUMENT No. \_\_\_\_\_ DATE \_\_\_\_\_  
 TAX CERTIFICATE FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORDS SECTION.  
 INSTRUMENT No. 20130081754-55 DATE 10/31/12  
 RESTRICTIVE COVENANTS FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.  
 INSTRUMENT No. \_\_\_\_\_ DATE \_\_\_\_\_  
 LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES.  
 \*U.S. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS\*.  
 SET 1/2" REBAR WITH CAP MARKED TX 5152 AT ALL EXTERIOR BOUNDARY CORNERS UNLESS OTHERWISE NOTED.  
 ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 480212 0175 S, DATED SEPTEMBER 4, 1991 THIS PROPERTY IS IN FLOOD HAZARD ZONE X OUTSIDE THE 500 YEAR FLOOD-PLAIN.

**NOTE:**  
 This amending subdivision is to:  
 Adjust lot line between lots 1 and 2, block 330.  
 This amending plat does not change or supersede the intent or effect of the dedication statement concerning public rights of way or other utility easements on the original plat.

LOCATION MAP 1"=600'



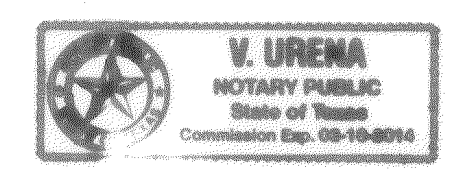
**DEDICATION**  
 JOSEPH HOMES, property owner of this land hereby present this plat and dedicate to the use of the public, buried service conduits and pipes for underground utilities, and the right to ingress and egress for service and construction and the right to trim interfering trees and shrubs.  
 Witness our signature this 24<sup>th</sup> day of October, 2013.

By: JOSEPH HOMES  
 By: Robert Najera  
 ROBERT NAJERA, Manager

ATTEST: NOT REQUIRED  
**ACKNOWLEDGEMENT**

STATE OF TEXAS  
 COUNTY OF EL PASO  
 Before me, the undersigned authority, on this day personally appeared Robert Najera, Manager of JOSEPH HOMES, 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 of said company for the purpose and considerations herein expressed.

Given under my hand and seal of office this 24<sup>th</sup> day of October, 2013.  
V. Urena  
 Notary Public in and for El Paso County  
 My Commission Expires 3-18-2014



**AMENDING PLAT APPROVAL STATEMENT**  
 This subdivision is hereby approved in accordance with Chapter 212.0065 (AMENDING PLAT) of the Local Government Code of Texas Municipal Code Section 19.08.070, as to meeting the requirements for a review of an amending plat.

Cliff Executive Secretary  
H. Y. [Signature] Subdivision Coordinator  
 Approved for filing this 31<sup>st</sup> day of October, 2013.  
[Signature]  
 City Development Director

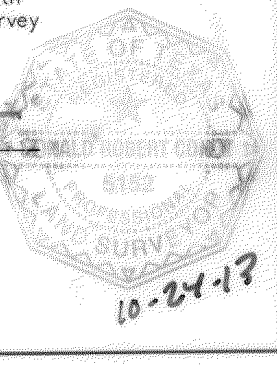
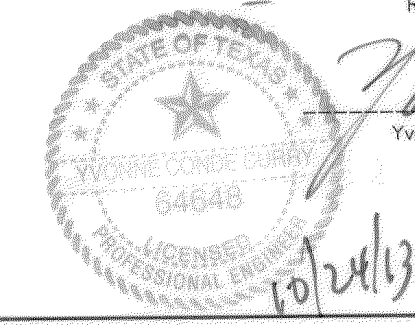
**FILING**  
 Filed and recorded in the office of the County Clerk of El Paso County, Texas, this 31<sup>st</sup> day of October, 2013, A.D. in  
 File No. 20130081753  
[Signature] County Clerk  
Frances Acavado By Deputy

Prepared by and under the supervision of:  
 YVONNE CONDE CURRY, P.E.  
 Registered Professional Engineer  
 Registration No. 64648

This plat represents a survey made on the ground by me or under my supervision and complies with the current Texas Board of Professional Land Survey Professional and Technical Standards.  
[Signature] Yvonne Conde Curry, P.E.  
 Registered Professional Land Surveyor  
 Texas License No. 5152

DATE OF PREPARATION: AUGUST 8, 2013

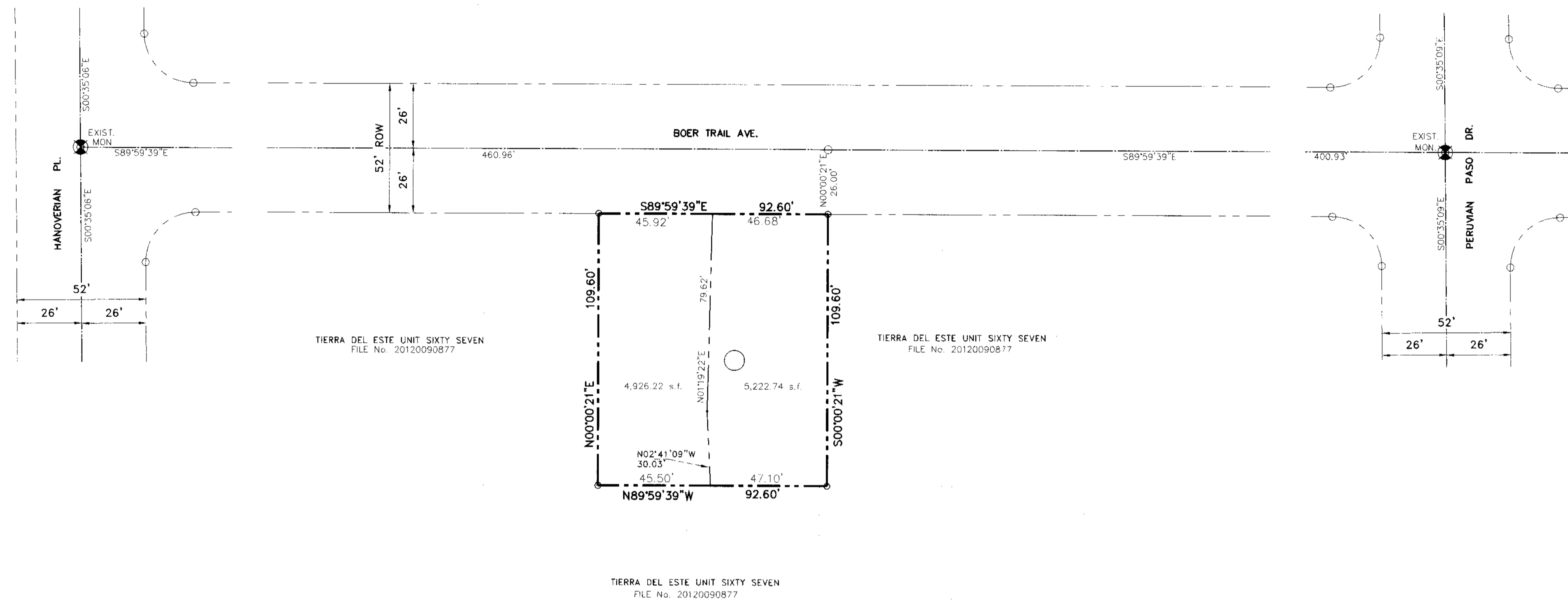
6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79906  
 PHONE (915) 592-0283  
 FAX (915) 592-0286



# TIERRA DEL ESTE UNIT SIXTY SEVEN

## AMENDING SUBDIVISION

BEING AN AMENDING PLAT OF TIERRA DEL ESTE  
UNIT SIXTY SEVEN  
CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 0.233 ACRES



**NOTES:**  
 WATER AND SEWER SERVICES HAVE BEEN EXTENDED TO THIS SUBDIVISION (TIERRA DEL ESTE UNIT 67 AMENDING SUBDIVISION) FROM EXISTING EL PASO WATER UTILITIES/PUBLIC SERVICE BOARD FACILITIES.  
 THE INSTRUMENT ASSURING THE CERTIFICATION THAT WATER AND SEWER SERVICES FACILITIES DESCRIBED BY THIS PLAT ARE IN COMPLIANCE WITH THE MODEL RULES ADOPTED UNDER SECTION 16.343, TEXAS WATER CODE IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.  
 INSTRUMENT No. \_\_\_\_\_ DATE \_\_\_\_\_  
 TAX CERTIFICATE FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORDS SECTION.  
 INSTRUMENT No. 20130080598-99 DATE 10/28/13  
 RESTRICTIVE COVENANTS FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.  
 INSTRUMENT No. \_\_\_\_\_ DATE \_\_\_\_\_  
 LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES.  
 \*U.S. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS.  
 SET 1/2" REBAR WITH CAP MARKED TX 5152 AT ALL EXTERIOR BOUNDARY CORNERS UNLESS OTHERWISE NOTED.  
 ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 480013 D172 R, DATED SEPTEMBER 4, 1991 THIS PROPERTY IS IN FLOOD HAZARD ZONE X OUTSIDE THE 500 YEAR FLOOD-PLAIN.

**NOTE:**  
 This amending subdivision is to:  
 Adjust lot line between lots 23 and 24, block 332.  
 This amending plat does not change or supersede the intent or effect of the dedication statement concerning public rights of way or other utility easements on the original plat.

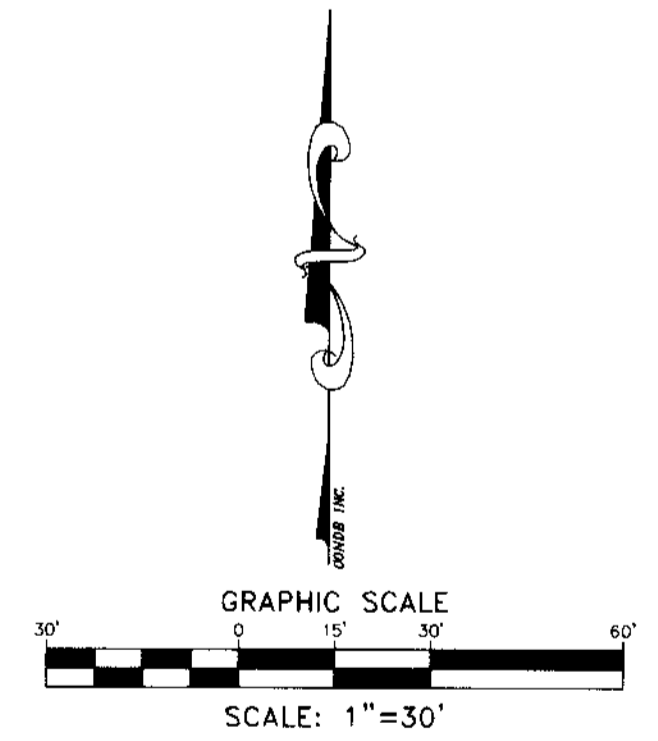
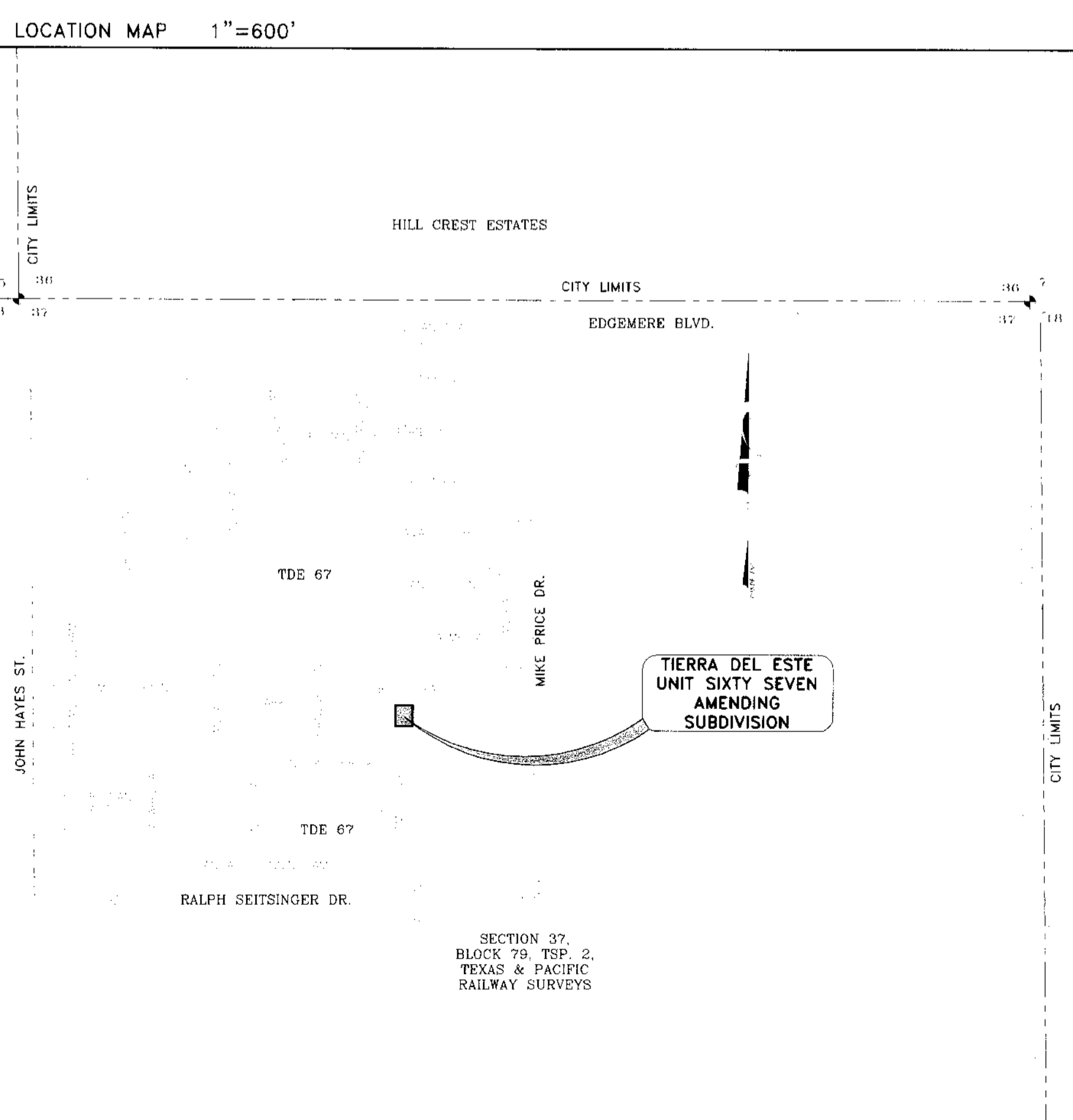
**DEDICATION**  
 PALO VERDE HOMES, property owner of this land hereby presents this plat and dedicates to the use of the public, the buried service conduits and pipes for underground utilities, and the right to ingress and egress, for service and construction and the right to trim interfering trees and shrubs.  
 Witness our signature this 11th day of October, 2013.  
 BY: PALO VERDE HOMES  
EDGAR MONTIEL, Manager

**ACKNOWLEDGEMENT**  
 STATE OF TEXAS  
 COUNTY OF EL PASO  
 Before me, the undersigned authority, on this day personally appeared Edgar Montiel, Manager of PALO VERDE HOMES, 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 of said company for the purpose and considerations herein expressed.  
 Given under my hand and seal of office this 11th day of October, 2013.  
V. Urena 3-18-2014  
 Notary Public in and for El Paso County My Commission Expires

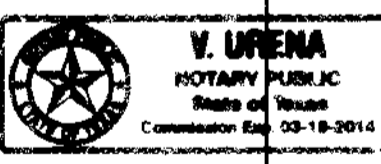
**AMENDING PLAT APPROVAL STATEMENT**  
 This subdivision is hereby approved in accordance with Chapter 212.0065 (AMENDING PLAT) of the Local Government Code of Texas Municipal Code Section 19.08.070, as to meeting the requirements for a review of an amending plat.  
[Signature] Executive Secretary  
[Signature] Subdivision Coordinator  
 Approved for filing this 23rd day of October, 2013.  
[Signature] City Development Director

**FILING**  
 Filed and recorded in the office of the County Clerk of El Paso County, Texas, this 28 day of October, 2013, A.D. in File No. 20130080598  
[Signature] Andrew Bousard  
 By Deputy

Prepared by and under the supervision of:  
 YVONNE CONDE CURRY, P.E.  
 Registered Professional Engineer  
 Registration No. 64848  
 This plat represents a survey made on the ground by me or under my supervision and complies with the current Texas Board of Professional Land Survey Professional and Technical Standards.  
[Signature] Yvonne Conde Curry, P.E.  
 Registered Professional Land Surveyor  
 Texas License No. 5152



DATE OF PREPARATION: AUGUST 6, 2013



10-8-13



# TERRA DEL ESTE UNIT

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CONTAINING: 166.2± ACRES, CITY OF EL PASO, EL PASO COUNTY, TEXAS

NOTES:  
 1. CURVE DATA WILL BE SET UP ON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES.  
 2. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND DELIVERY POINTS WITH CURVE MARKING TX 5122 AT ALL EXTERIOR BOUNDARY CORNERS UNLESS OTHERWISE NOTED.  
 3. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE MAP COMMUNITY PANEL NO. 480212781R DATED SEPTEMBER 4, 1991 THIS PROPERTY IS IN FLOOD ZONE X OUTSIDE THE 500 YEAR FLOOD-PLAIN.  
 4. CURVE CLASSIFICATION:  
 - 20' R.O.W. = ALLEY  
 - 40' R.O.W. = RESIDENTIAL LANE NO PARKING  
 - 40' R.O.W. = 20' LOCAL RESIDENTIAL 3  
 - 52' R.O.W. = 32' LOCAL RESIDENTIAL 3  
 - 64' R.O.W. = NON-RESIDENTIAL 4 LANE COLLECTOR  
 - 110' R.O.W. = MAJOR ARTERIAL STREET

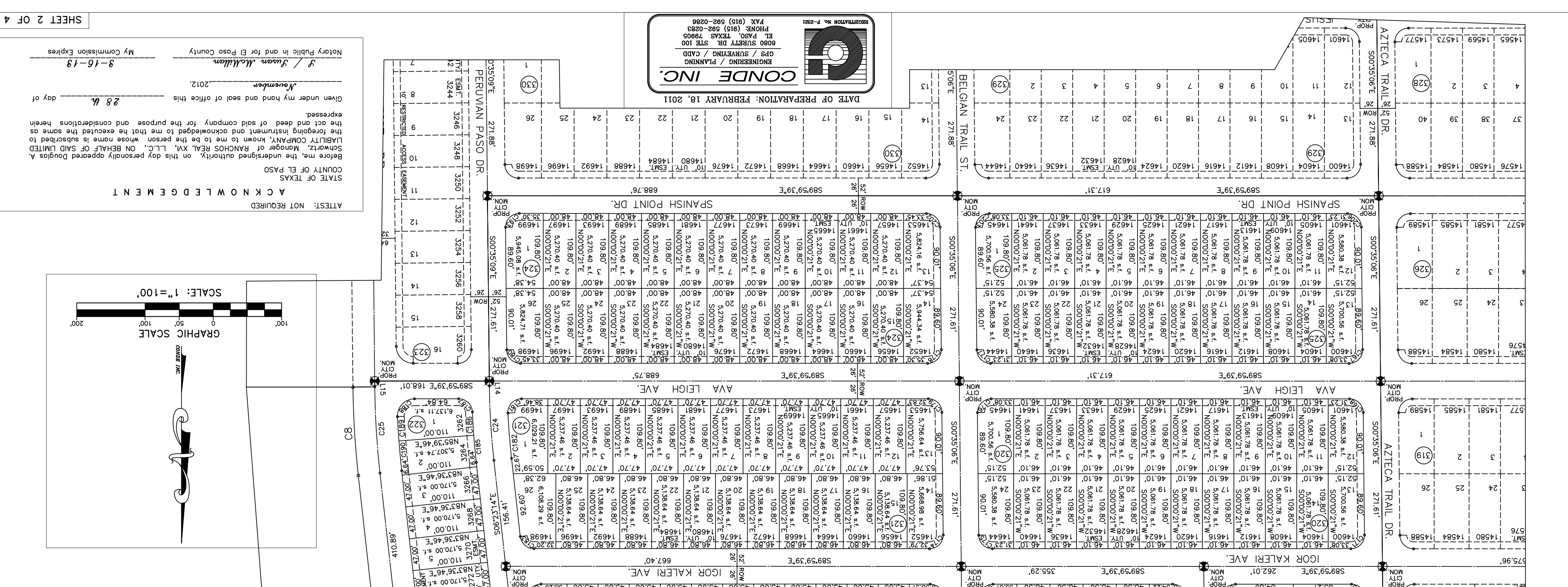
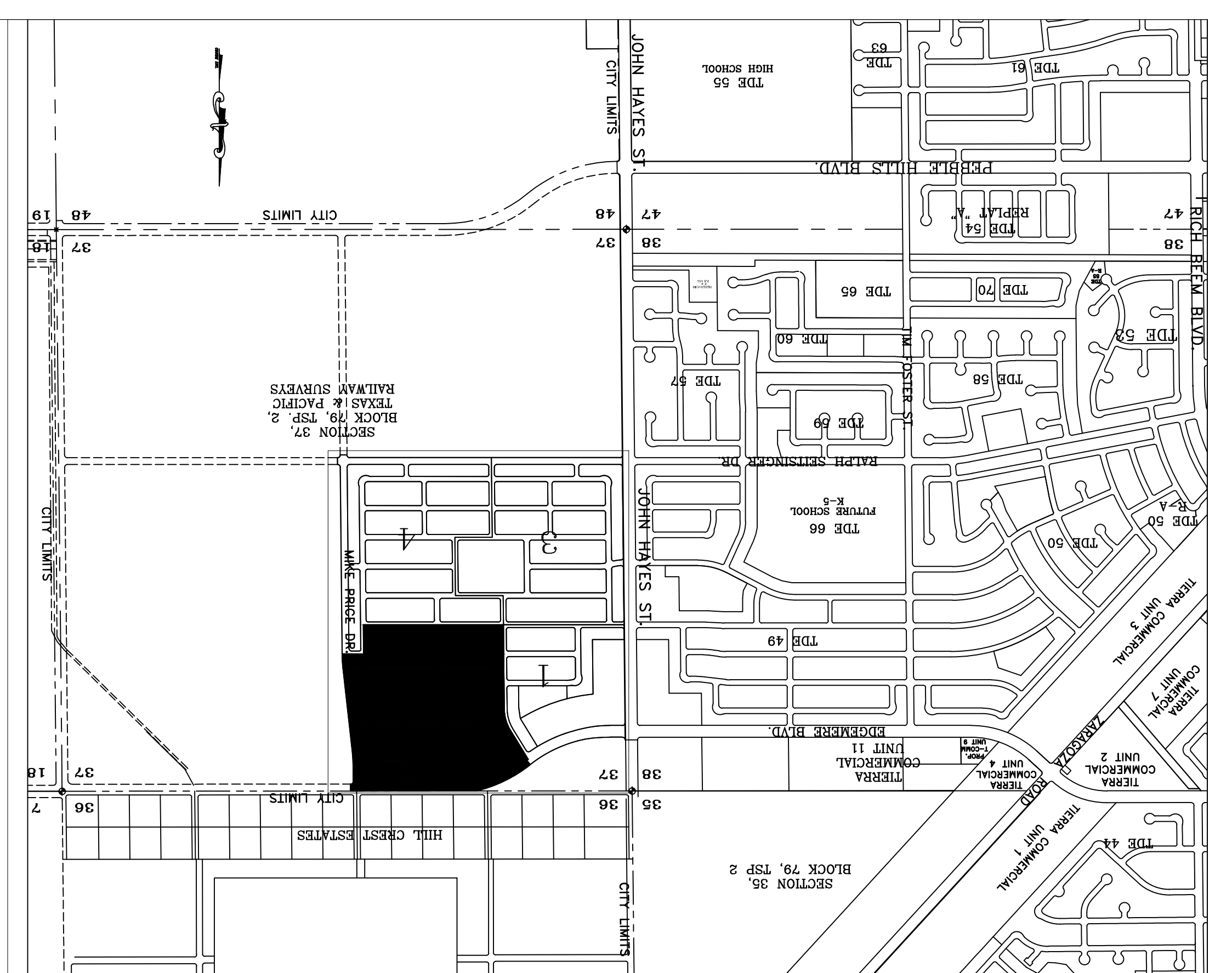
Book 10, Page 14

CURVE TABLE

CURVE #	CURVE LENGTH	TANGENT	CHORD	BEARING	DELTA
C87	104.00	50.08	50.08	90.0000°	90.0000°
C88	200.00	31.42	200.00	90.0000°	90.0000°
C89	1101.00	45.97	22.99	90.0000°	90.0000°
C90	1101.00	45.97	22.99	90.0000°	90.0000°
C91	1101.00	45.97	22.99	90.0000°	90.0000°
C92	1101.00	45.97	22.99	90.0000°	90.0000°
C93	1101.00	45.97	22.99	90.0000°	90.0000°
C94	1101.00	45.97	22.99	90.0000°	90.0000°
C95	1101.00	45.97	22.99	90.0000°	90.0000°
C96	1101.00	45.97	22.99	90.0000°	90.0000°
C97	1101.00	45.97	22.99	90.0000°	90.0000°
C98	1101.00	45.97	22.99	90.0000°	90.0000°
C99	1101.00	45.97	22.99	90.0000°	90.0000°
C100	1101.00	45.97	22.99	90.0000°	90.0000°
C101	1101.00	45.97	22.99	90.0000°	90.0000°
C102	1101.00	45.97	22.99	90.0000°	90.0000°
C103	1101.00	45.97	22.99	90.0000°	90.0000°
C104	1101.00	45.97	22.99	90.0000°	90.0000°
C105	1101.00	45.97	22.99	90.0000°	90.0000°
C106	1101.00	45.97	22.99	90.0000°	90.0000°
C107	1101.00	45.97	22.99	90.0000°	90.0000°
C108	1101.00	45.97	22.99	90.0000°	90.0000°
C109	1101.00	45.97	22.99	90.0000°	90.0000°
C110	1101.00	45.97	22.99	90.0000°	90.0000°
C111	1101.00	45.97	22.99	90.0000°	90.0000°
C112	1101.00	45.97	22.99	90.0000°	90.0000°
C113	1101.00	45.97	22.99	90.0000°	90.0000°
C114	1101.00	45.97	22.99	90.0000°	90.0000°
C115	1101.00	45.97	22.99	90.0000°	90.0000°
C116	1101.00	45.97	22.99	90.0000°	90.0000°
C117	1101.00	45.97	22.99	90.0000°	90.0000°
C118	1101.00	45.97	22.99	90.0000°	90.0000°
C119	1101.00	45.97	22.99	90.0000°	90.0000°
C120	1101.00	45.97	22.99	90.0000°	90.0000°
C121	1101.00	45.97	22.99	90.0000°	90.0000°
C122	1101.00	45.97	22.99	90.0000°	90.0000°
C123	1101.00	45.97	22.99	90.0000°	90.0000°
C124	1101.00	45.97	22.99	90.0000°	90.0000°
C125	1101.00	45.97	22.99	90.0000°	90.0000°
C126	1101.00	45.97	22.99	90.0000°	90.0000°
C127	1101.00	45.97	22.99	90.0000°	90.0000°
C128	1101.00	45.97	22.99	90.0000°	90.0000°
C129	1101.00	45.97	22.99	90.0000°	90.0000°
C130	1101.00	45.97	22.99	90.0000°	90.0000°
C131	1101.00	45.97	22.99	90.0000°	90.0000°
C132	1101.00	45.97	22.99	90.0000°	90.0000°
C133	1101.00	45.97	22.99	90.0000°	90.0000°
C134	1101.00	45.97	22.99	90.0000°	90.0000°
C135	1101.00	45.97	22.99	90.0000°	90.0000°
C136	1101.00	45.97	22.99	90.0000°	90.0000°
C137	1101.00	45.97	22.99	90.0000°	90.0000°
C138	1101.00	45.97	22.99	90.0000°	90.0000°
C139	1101.00	45.97	22.99	90.0000°	90.0000°
C140	1101.00	45.97	22.99	90.0000°	90.0000°
C141	1101.00	45.97	22.99	90.0000°	90.0000°
C142	1101.00	45.97	22.99	90.0000°	90.0000°
C143	1101.00	45.97	22.99	90.0000°	90.0000°
C144	1101.00	45.97	22.99	90.0000°	90.0000°
C145	1101.00	45.97	22.99	90.0000°	90.0000°
C146	1101.00	45.97	22.99	90.0000°	90.0000°
C147	1101.00	45.97	22.99	90.0000°	90.0000°
C148	1101.00	45.97	22.99	90.0000°	90.0000°
C149	1101.00	45.97	22.99	90.0000°	90.0000°
C150	1101.00	45.97	22.99	90.0000°	90.0000°

LINE TABLE

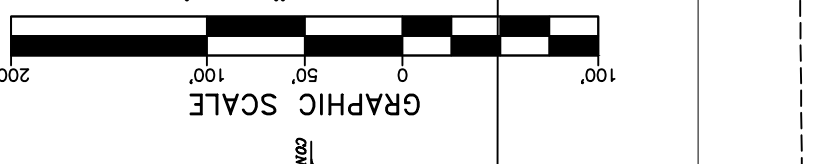
L1	60.01	N89°05'47"E
L2	44.44	N89°05'47"E
L3	65.00	S00°00'21"W
L4	64.01	N89°31'55"W
L5	44.44	S75°10'41"W
L6	60.00	S89°58'39"E
L7	60.00	S89°58'39"E
L8	43.92	N89°58'06"E
L9	57.06	N89°58'06"E
L10	27.29	N00°00'21"E
L11	73.37	S00°00'21"E
L12	23.23	S00°35'06"E
L13	48.23	N73°54'36"E
L14	6.86	S00°35'09"E
L15	8.60	S00°35'09"E
L16	57.00	S89°59'39"E
L17	57.00	S89°59'39"E
L18	60.00	S89°59'39"E
L19	60.00	S89°59'39"E
L20	60.00	S89°59'39"E
L21	29.23	S00°35'06"E
L22	23.23	S00°35'06"E
L23	21.00	N00°00'21"E



STATE OF TEXAS  
 COUNTY OF EL PASO  
 BEFORE ME, the undersigned authority, on this day personally appeared Douglas A. Schmidt, Manager of Rancho Real XV, L.L.C., ON BEHALF OF SAID LIMITED LIABILITY COMPANY, 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 his free act and deed of said company for the purpose and consideration herein expressed.  
 Given under my hand and seal of office this 28th day of November, 2012.  
 My Commission Expires 9-18-13  
 Notary Public in and for El Paso County  
 /s/ Susan Williams  
 My Commission Expires 9-18-13  
 SHEET 2 OF 4

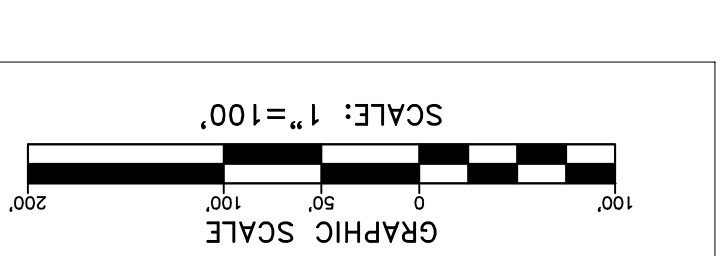
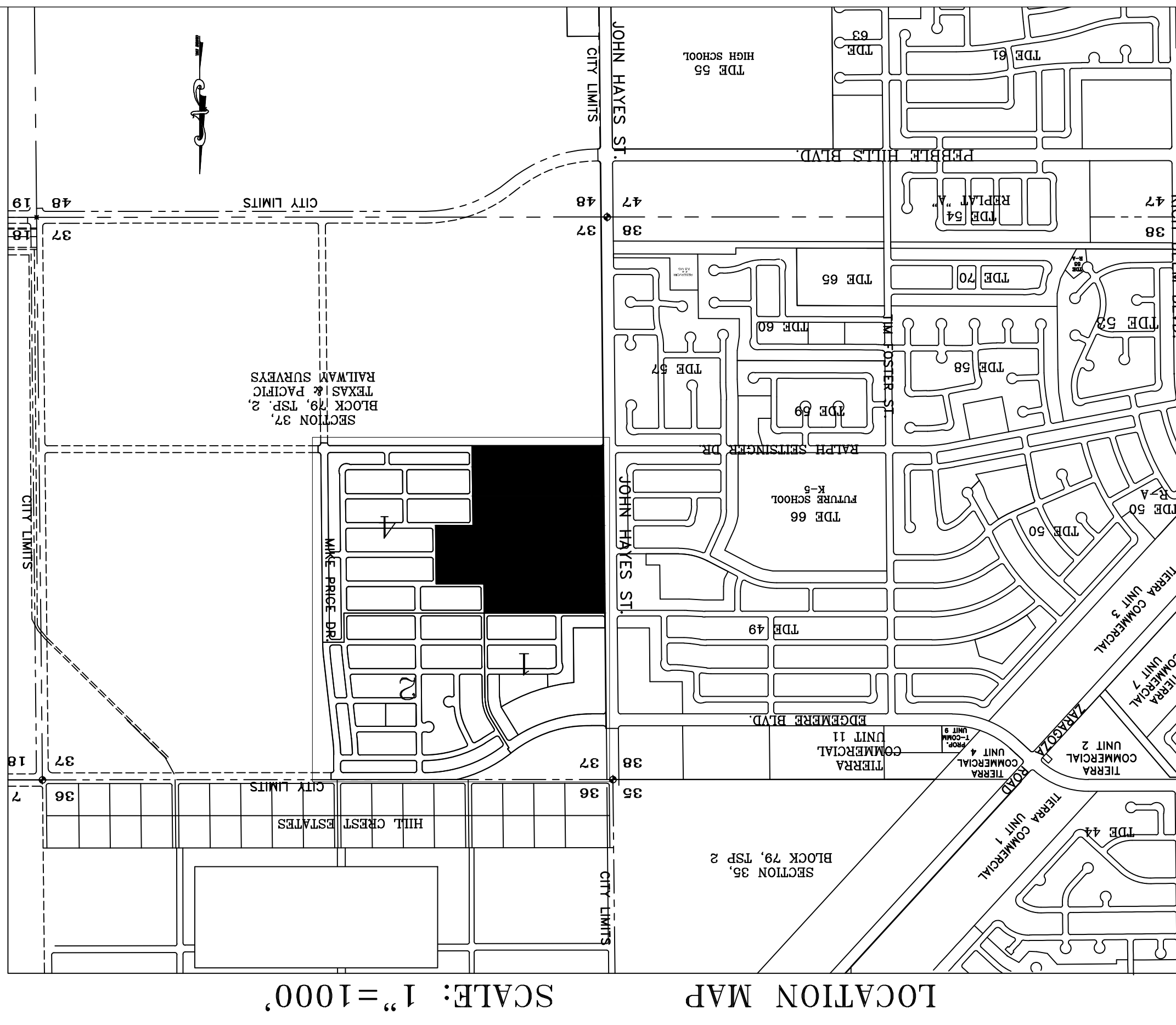
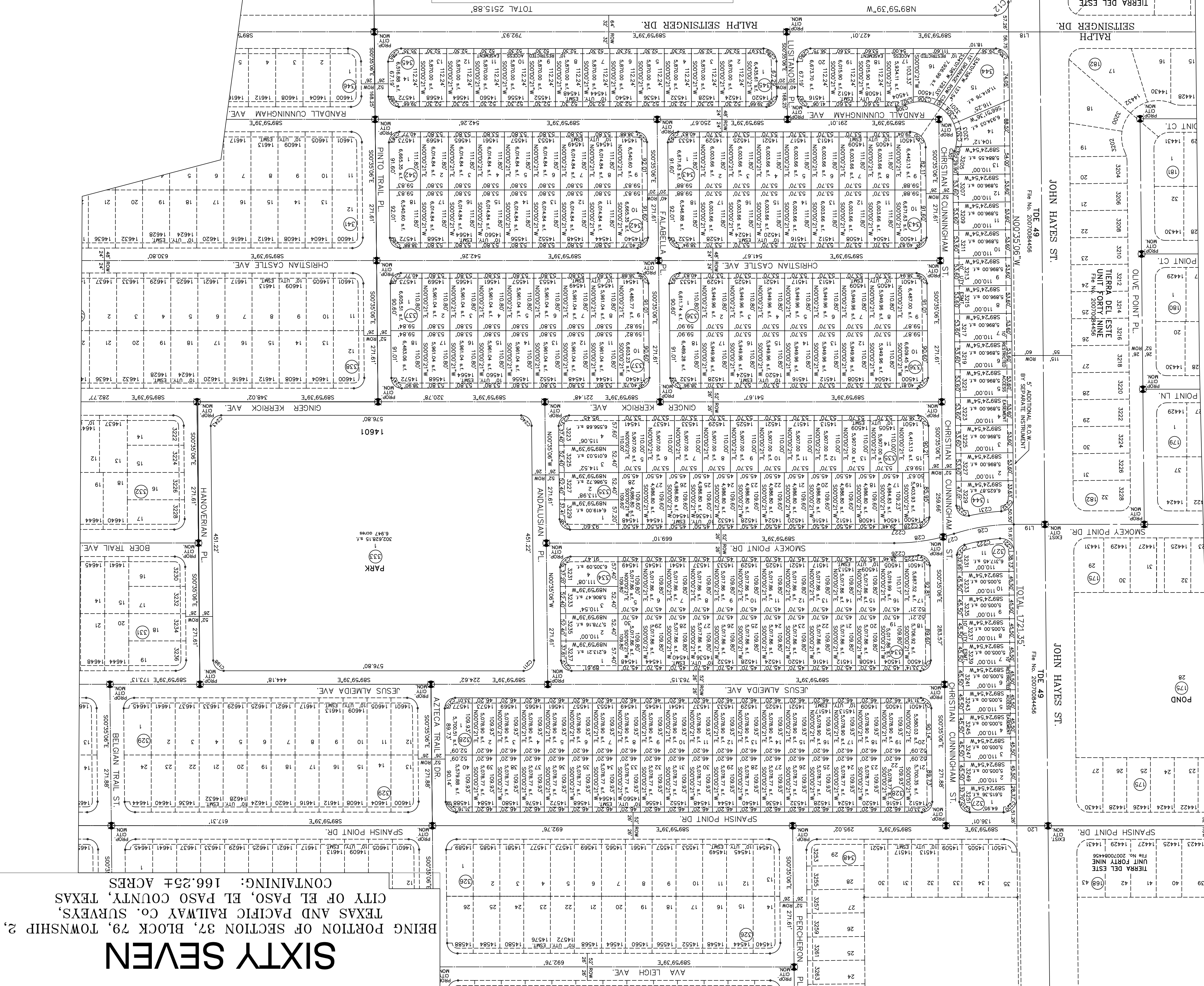
**CONDÉ INC.**  
 675 S. SIERRA MAR BLVD  
 PHOENIX, ARIZONA 85006  
 PHONE (602) 990-0888  
 FAX (602) 990-0288  
 REGISTRATION NO. 7-3883

DATE OF PREPARATION: FEBRUARY 18, 2011



Notary Public in and for El Paso County  
 My Commission Expires 3-16-13  
 / s/ Susan Williams  
 2012  
 Given under my hand and seal of office this 28th day of  
 Before me, the undersigned authority, on this day personally appeared Douglas A. Swartz, Manager of Rancho Real, L.L.C., on behalf of said limited liability company, 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 of said company for the purpose and considerations herein expressed.  
 STATE OF TEXAS  
 COUNTY OF EL PASO  
 BLOCK 79, TSP. 2  
 TEXAS & PACIFIC RAILWAY SURVEY  
 F.M. No. 2004091699  
 ATTEST: NOT REQUIRED

DATE OF PREPARATION: FEBRUARY 16, 2011  
 CONDE INC.  
 PROFESSIONAL PLANNING  
 6000 SURREY DR. STE 100  
 FARMERS ROAD 79000  
 PHOENIX, ARIZONA 85044  
 FAX: (602) 992-0289  
 STREET CLASSIFICATION:  
 20' R.O.W. = ALLEY  
 20' LOCAL RESIDENTIAL 2  
 52' LOCAL RESIDENTIAL 1  
 64' R.O.W. = NON-RESIDENTIAL & LAND COLLECTOR  
 100' R.O.W. = MAJOR ARTERIAL STREET  
 110' R.O.W. = MAJOR ARTERIAL STREET



Item #11  
 Owner agrees to pay water and wastewater connection fee to the El Paso Water Utilities department of the City for each three quarter inch (3/4") equivalent water meter that is connected to the public water system as shown below. The water and wastewater connection fee shall be recorded by Rancho Real, L.L.C. with the City of El Paso on January 31, 2006. Among other conditions the agreement required the following:

Terra Del Este Unit 67 is subject to the Amortization Agreement entered into by Rancho Real, L.L.C. with the City of El Paso on January 31, 2006. Among other conditions the agreement required the following:

Water Size: Water (S) Wastewater (S)  
 5/8" x 1/4" 1.986 328  
 1" 4.828 868  
 1 1/2" 12.400 1600  
 2" 20.000 2800  
 3" 35.000 5200  
 4" 50.000 8200  
 6" 85.000 14500  
 8" 130.000 20500  
 10" 190.000 28500

CURVE TABLE

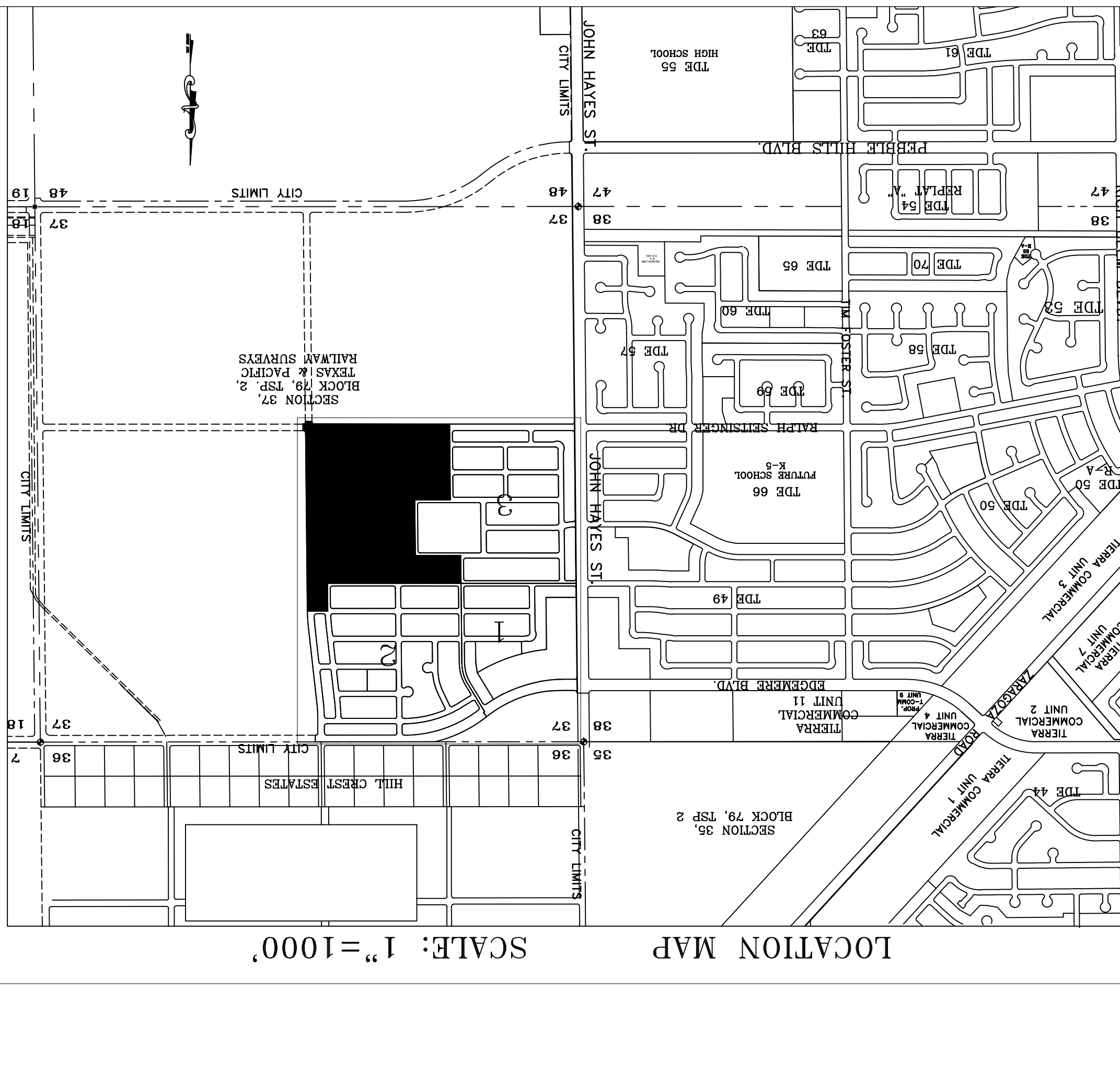
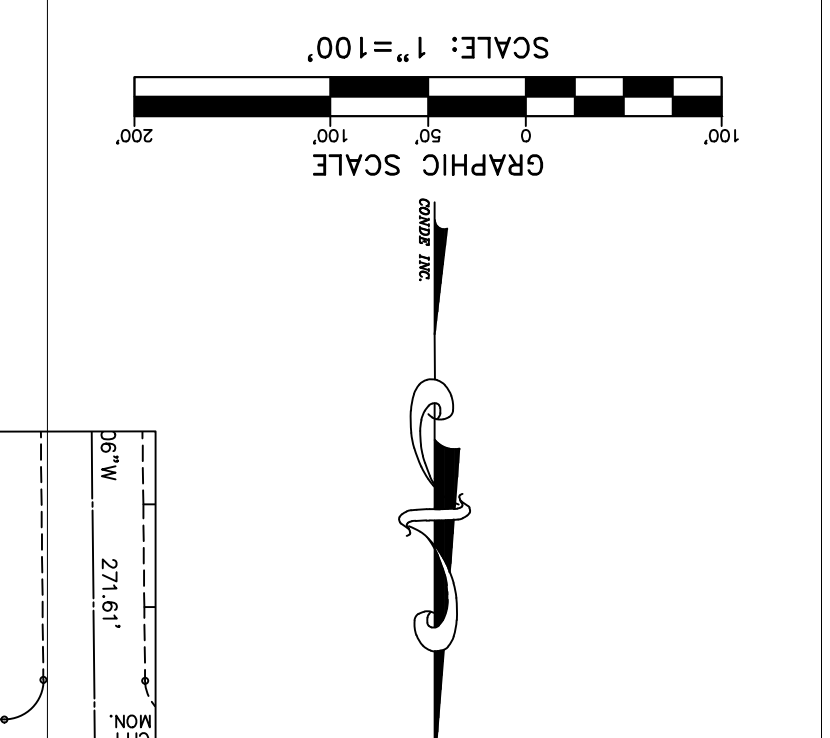
CURVE	LENGTH	TANGENT	CHORD	BEARING	DELTA
C12	25.00	39.53	54.44	27.37°	90.35°
C28	375.00	116.72	58.84	116.25°	175.00°
C27	375.00	21.78	10.89	178.39°	319.39°
C198	200.00	31.21	19.79	84.44°	90.35°
C199	200.00	31.21	19.79	84.44°	90.35°
C200	200.00	31.21	19.79	84.44°	90.35°
C201	200.00	31.21	19.79	84.44°	90.35°
C202	200.00	31.21	19.79	84.44°	90.35°
C203	200.00	31.21	19.79	84.44°	90.35°
C204	200.00	31.21	19.79	84.44°	90.35°
C205	200.00	31.21	19.79	84.44°	90.35°
C206	200.00	31.21	19.79	84.44°	90.35°
C207	200.00	31.21	19.79	84.44°	90.35°
C208	200.00	31.21	19.79	84.44°	90.35°
C209	200.00	31.21	19.79	84.44°	90.35°
C210	200.00	31.21	19.79	84.44°	90.35°
C211	200.00	31.21	19.79	84.44°	90.35°
C212	200.00	31.21	19.79	84.44°	90.35°
C213	200.00	31.21	19.79	84.44°	90.35°
C214	200.00	31.21	19.79	84.44°	90.35°
C215	200.00	31.21	19.79	84.44°	90.35°
C216	200.00	31.21	19.79	84.44°	90.35°
C217	200.00	31.21	19.79	84.44°	90.35°
C218	200.00	31.21	19.79	84.44°	90.35°
C219	200.00	31.21	19.79	84.44°	90.35°
C220	200.00	31.21	19.79	84.44°	90.35°
C221	25.00	40.90	26.69	54.72°	90.35°
C222	349.00	69.67	15.30	69.55°	112.61°
C223	200.00	62.72	31.43	62.66°	87.09°
C231	401.00	62.72	31.43	62.66°	87.09°
C232	200.00	35.54	17.47	31.04°	101.48°
C233	200.00	35.54	17.47	31.04°	101.48°
C234	200.00	35.54	17.47	31.04°	101.48°
C235	200.00	35.54	17.47	31.04°	101.48°
C236	200.00	35.54	17.47	31.04°	101.48°
C237	200.00	35.54	17.47	31.04°	101.48°
C238	200.00	35.54	17.47	31.04°	101.48°
C239	200.00	35.54	17.47	31.04°	101.48°
C240	200.00	35.54	17.47	31.04°	101.48°
C241	200.00	31.21	19.79	84.44°	90.35°
C242	200.00	31.21	19.79	84.44°	90.35°
C243	200.00	31.21	19.79	84.44°	90.35°
C244	200.00	31.21	19.79	84.44°	90.35°
C245	200.00	31.21	19.79	84.44°	90.35°
C246	200.00	31.21	19.79	84.44°	90.35°
C247	200.00	31.21	19.79	84.44°	90.35°
C248	200.00	31.21	19.79	84.44°	90.35°
C249	200.00	31.21	19.79	84.44°	90.35°
C250	200.00	31.21	19.79	84.44°	90.35°
C251	200.00	31.21	19.79	84.44°	90.35°
C252	200.00	31.21	19.79	84.44°	90.35°
C253	200.00	31.21	19.79	84.44°	90.35°
C254	200.00	31.21	19.79	84.44°	90.35°
C255	200.00	31.21	19.79	84.44°	90.35°
C256	200.00	31.21	19.79	84.44°	90.35°
C257	200.00	31.21	19.79	84.44°	90.35°
C258	200.00	31.21	19.79	84.44°	90.35°
C259	200.00	31.21	19.79	84.44°	90.35°
C260	200.00	31.21	19.79	84.44°	90.35°
C261	200.00	31.21	19.79	84.44°	90.35°
C262	200.00	31.21	19.79	84.44°	90.35°
C263	200.00	31.21	19.79	84.44°	90.35°
C264	200.00	31.21	19.79	84.44°	90.35°
C265	200.00	31.21	19.79	84.44°	90.35°
C266	200.00	31.21	19.79	84.44°	90.35°
C267	200.00	31.21	19.79	84.44°	90.35°
C268	200.00	31.21	19.79	84.44°	90.35°
C269	200.00	31.21	19.79	84.44°	90.35°
C270	200.00	31.21	19.79	84.44°	90.35°
C271	200.00	31.21	19.79	84.44°	90.35°
C272	200.00	31.21	19.79	84.44°	90.35°
C273	200.00	31.21	19.79	84.44°	90.35°
C274	200.00	31.21	19.79	84.44°	90.35°
C275	200.00	31.21	19.79	84.44°	90.35°
C276	200.00	31.21	19.79	84.44°	90.35°
C277	200.00	31.21	19.79	84.44°	90.35°
C278	200.00	31.21	19.79	84.44°	90.35°
C279	200.00	31.21	19.79	84.44°	90.35°
C280	200.00	31.21	19.79	84.44°	90.35°
C281	200.00	31.21	19.79	84.44°	90.35°
C282	200.00	31.21	19.79	84.44°	90.35°
C283	200.00	31.21	19.79	84.44°	90.35°
C284	200.00	31.21	19.79	84.44°	90.35°
C285	200.00	31.21	19.79	84.44°	90.35°
C286	200.00	31.21	19.79	84.44°	90.35°
C287	200.00	31.21	19.79	84.44°	90.35°
C288	200.00	31.21	19.79	84.44°	90.35°
C289	200.00	31.21	19.79	84.44°	90.35°
C290	200.00	31.21	19.79	84.44°	90.35°
C291	200.00	31.21	19.79	84.44°	90.35°
C292	200.00	31.21	19.79	84.44°	90.35°
C293	200.00	31.21	19.79	84.44°	90.35°
C294	200.00	31.21	19.79	84.44°	90.35°
C295	200.00	31.21	19.79	84.44°	90.35°
C296	200.00	31.21	19.79	84.44°	90.35°
C297	200.00	31.21	19.79	84.44°	90.35°
C298	200.00	31.21	19.79	84.44°	90.35°
C299	200.00	31.21	19.79	84.44°	90.35°
C300	200.00	31.21	19.79	84.44°	90.35°
C301	400.00	15.26	110.24	29.21°	159.11°
C302	700.00	9.60	4.81	9.59°	79.29°
C303	700.00	44.82	4.81	9.59°	364.10°
C304	700.00	20.62	39.66	59.33°	324.39°
C305	700.00	15.12	7.39	15.09°	324.39°
C306	700.00	39.66	15.12	15.09°	324.39°
C307	700.00	8.43	16.25	11.75°	134.42°
C308	400.00	17.39	8.84	17.26°	254.63°
C309	25.00	39.01	2.74	35.17°	89.24°

**TERRA DEL ESTE UNIT**  
 SIXTY SEVEN  
 BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2,  
 TEXAS AND PACIFIC RAILWAY CO. SURVEYS,  
 CITY OF EL PASO, EL PASO COUNTY, TEXAS,  
 CONTAINING: 166.25± ACRES

# TERRA DEL ESTE UNIT SIXTY SEVEN BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.25± ACRES

**CURVE TABLE**

LINE	BEARING	DELTA	CHORD	ANGLE	CHORD	BEARING	DELTA	CHORD	ANGLE	CHORD	BEARING	DELTA	CHORD	ANGLE	CHORD
L1	N45°17'24"W	89°24'30"	186.0	140°25'06"	186.0	N45°17'24"W	89°24'30"	186.0	140°25'06"	186.0	N45°17'24"W	89°24'30"	186.0	140°25'06"	186.0
L2	S44°42'36"E	90°35'27"	55.4	N45°17'24"W	89°24'30"	S44°42'36"E	90°35'27"	55.4	N45°17'24"W	89°24'30"	S44°42'36"E	90°35'27"	55.4	N45°17'24"W	89°24'30"
L3	S00°01'54"E	89°24'30"	64.0	N03°29'12"W	5°48'04"	S00°01'54"E	89°24'30"	64.0	N03°29'12"W	5°48'04"	S00°01'54"E	89°24'30"	64.0	N03°29'12"W	5°48'04"
L4	N03°29'12"W	5°48'04"	109.5	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	109.5	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	109.5	N03°29'12"W	5°48'04"
L5	N03°29'12"W	5°48'04"	126.5	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	126.5	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	126.5	N03°29'12"W	5°48'04"
L6	N03°29'12"W	5°48'04"	170.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	170.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	170.0	N03°29'12"W	5°48'04"
L7	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L8	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L9	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L10	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L11	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L12	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L13	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L14	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L15	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L16	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L17	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L18	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L19	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L20	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L21	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L22	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"
L23	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"	N03°29'12"W	5°48'04"	166.0	N03°29'12"W	5°48'04"



Notary Public in and for El Paso County  
 My Commission Expires 9-16-18  
 Given under my hand and seal of office this 28th day of \_\_\_\_\_, 2012.

STATE OF TEXAS  
 COUNTY OF EL PASO  
 ATTEST: NOT REQUIRED

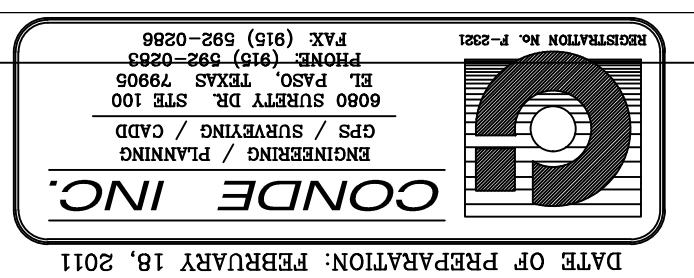
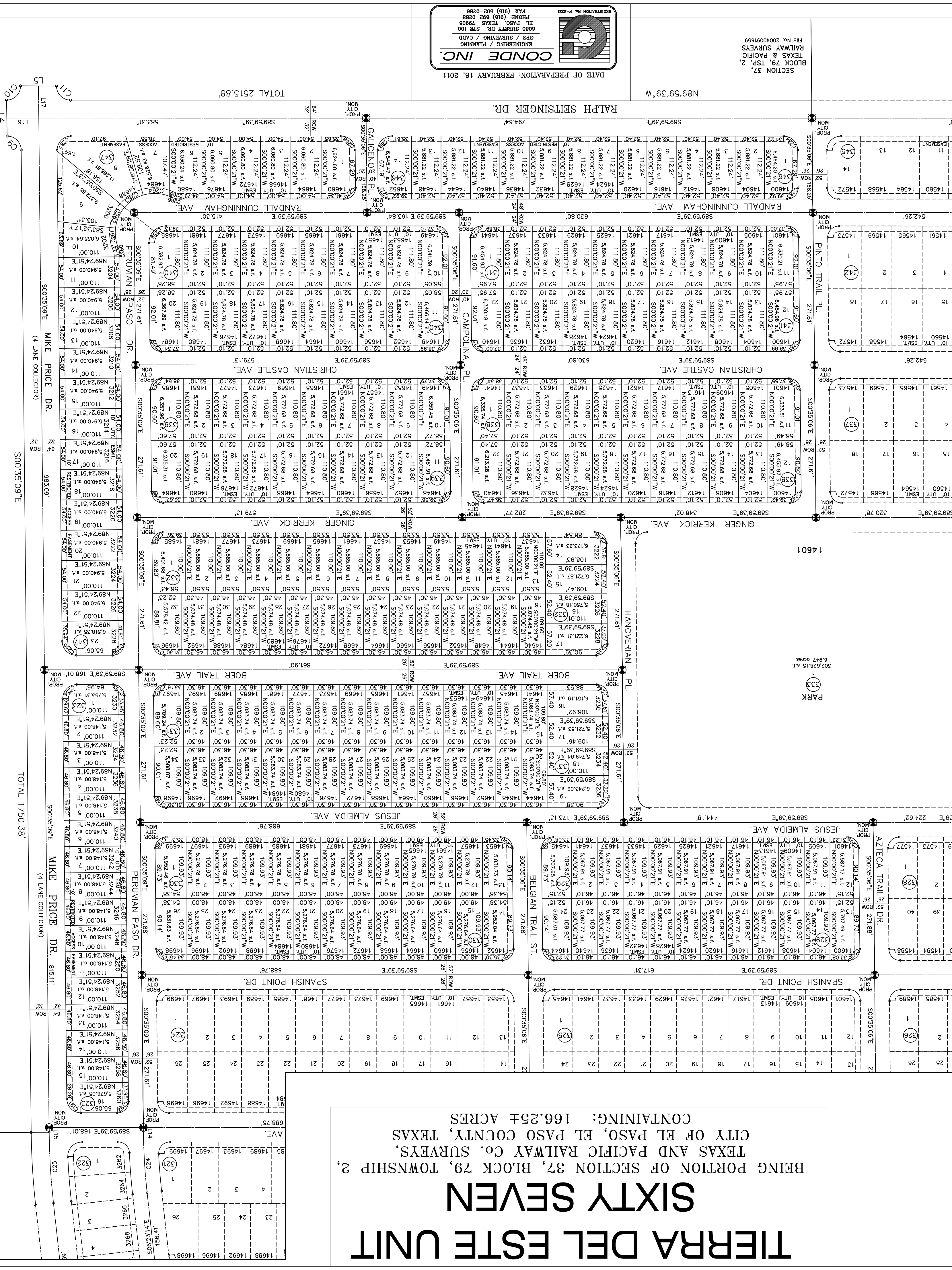
**STREET CLASSIFICATION:**  
 110' R.O.W. = MAJOR ARTERIAL STREET  
 100' R.O.W. = MAJOR ARTERIAL COLLECTOR  
 64' R.O.W. = NON-RESIDENTIAL 4 LANE  
 52' R.O.W. = LOCAL RESIDENTIAL 3  
 48' R.O.W. = LOCAL RESIDENTIAL 2  
 40' R.O.W. = RESIDENTIAL LANE NO PARKING  
 30' R.O.W. = ALLEY

**NOTES:**  
 LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES.  
 U.S. POSTAL SERVICE DELIVERY THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS.  
 SET 1/2" BEAR WITH MAP MARKED TX 5152 AT ALL EXTERIOR BOUNDARY CORNERS UNLESS OTHERWISE NOTED.  
 ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP HAZARD ZONE X OUTSIDE THE 500 YEAR FLOOD-PLAIN.  
 ALLEY

Item #1 Center Utilities to lay a water and wastewater connection fee to the El Paso Water Utilities Department of the City for each three quarter inch (3/4") water and wastewater connection. The water and wastewater connection shall be installed by the applicant on or before the date of the final platting of the system.  
 Meter Size: \_\_\_\_\_  
 Meter: \_\_\_\_\_  
 Wastewater: \_\_\_\_\_

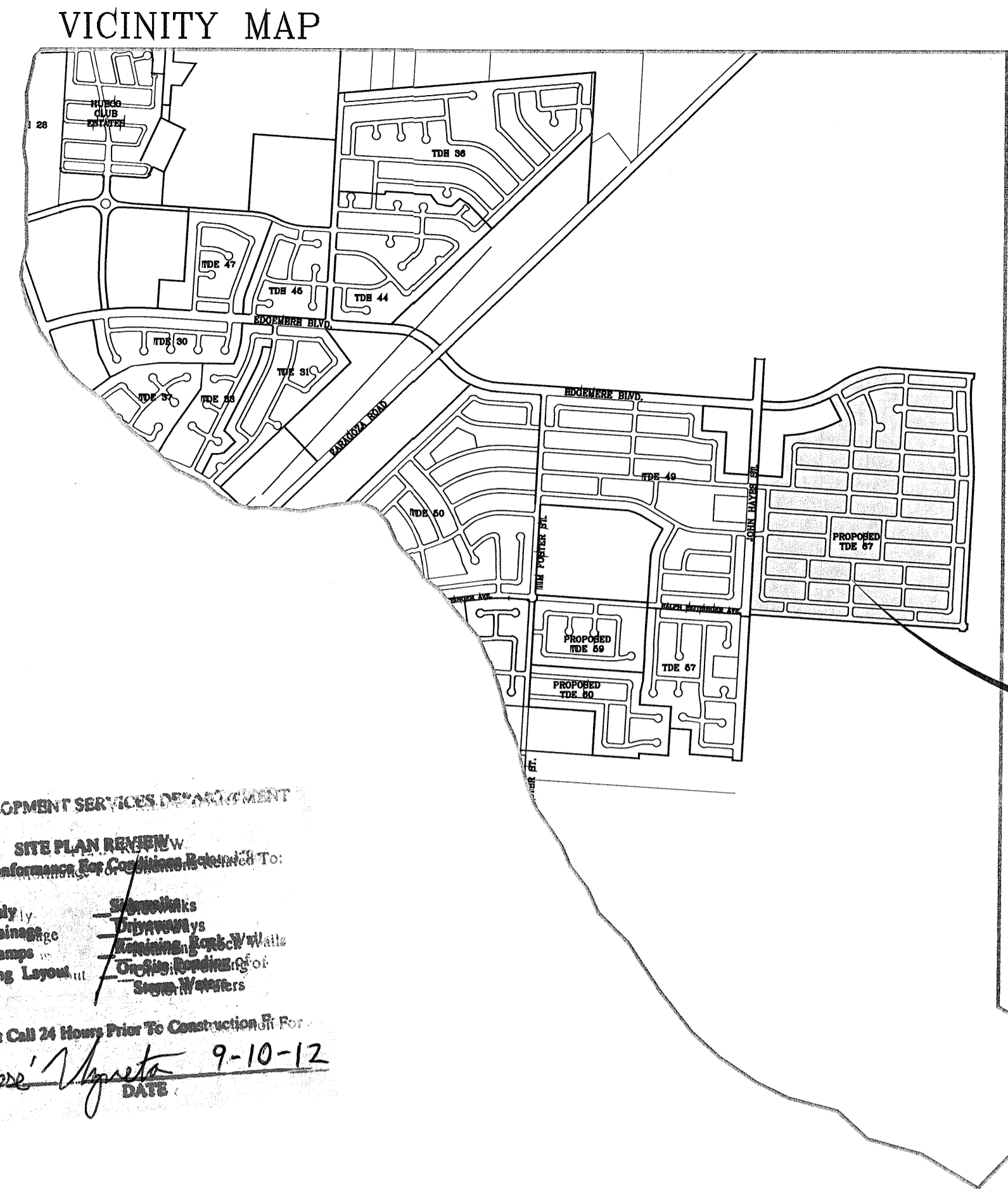
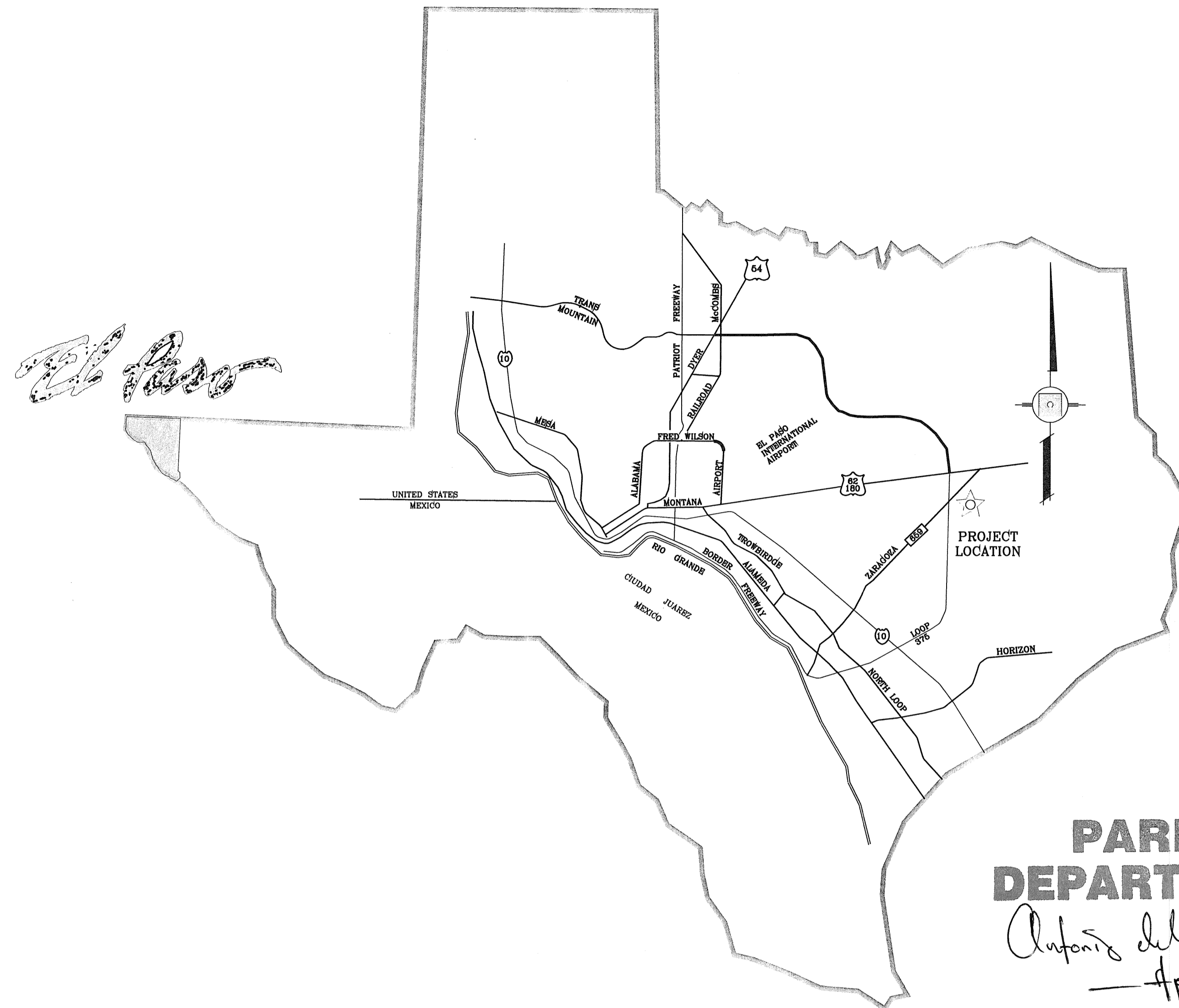
3/8" x 3/4" \_\_\_\_\_  
 1/2" \_\_\_\_\_  
 1/4" \_\_\_\_\_  
 3/4" \_\_\_\_\_  
 1" \_\_\_\_\_  
 1 1/2" \_\_\_\_\_  
 2" \_\_\_\_\_  
 2 1/2" \_\_\_\_\_  
 3" \_\_\_\_\_  
 4" \_\_\_\_\_  
 6" \_\_\_\_\_  
 8" \_\_\_\_\_  
 10" \_\_\_\_\_

TERRA DEL ESTE UNIT 57 NOTES:  
 Conditions the agreement required the following:  
 1. The Data Base Subdivision Unit 67 is subject to the annexation agreement entered into by the City of El Paso on January 11, 2008. Among other things the agreement required the following:  
 1.1 Center Utilities to lay a water and wastewater connection fee to the El Paso Water Utilities Department of the City for each three quarter inch (3/4") water and wastewater connection. The water and wastewater connection shall be installed by the applicant on or before the date of the final platting of the system.  
 1.2 Meter Size: \_\_\_\_\_  
 1.3 Meter: \_\_\_\_\_  
 1.4 Wastewater: \_\_\_\_\_



DATE OF PREPARATION: FEBRUARY 18, 2011  
 SECTION 37, BLOCK 79, TSP. 2, TEXAS & PACIFIC RAILWAY SURVEYS  
 PLAN NO. 20040091639





DEVELOPMENT SERVICES DEPARTMENT

SITE PLAN REVIEW

Reviewed For Conformance For Conditions Related To:

- Demolition Only
- Grading & Drainage
- Wheelchair Ramps
- On Site Parking Layout
- Driveways
- Retaining Walls
- Cracks/Reinforcement
- Stream Wetlands

Contractor Must Call 24 Hours Prior To Construction For Inspection

*Jose Vignata* 9-10-12

DATE

**PARKS DEPARTMENT**

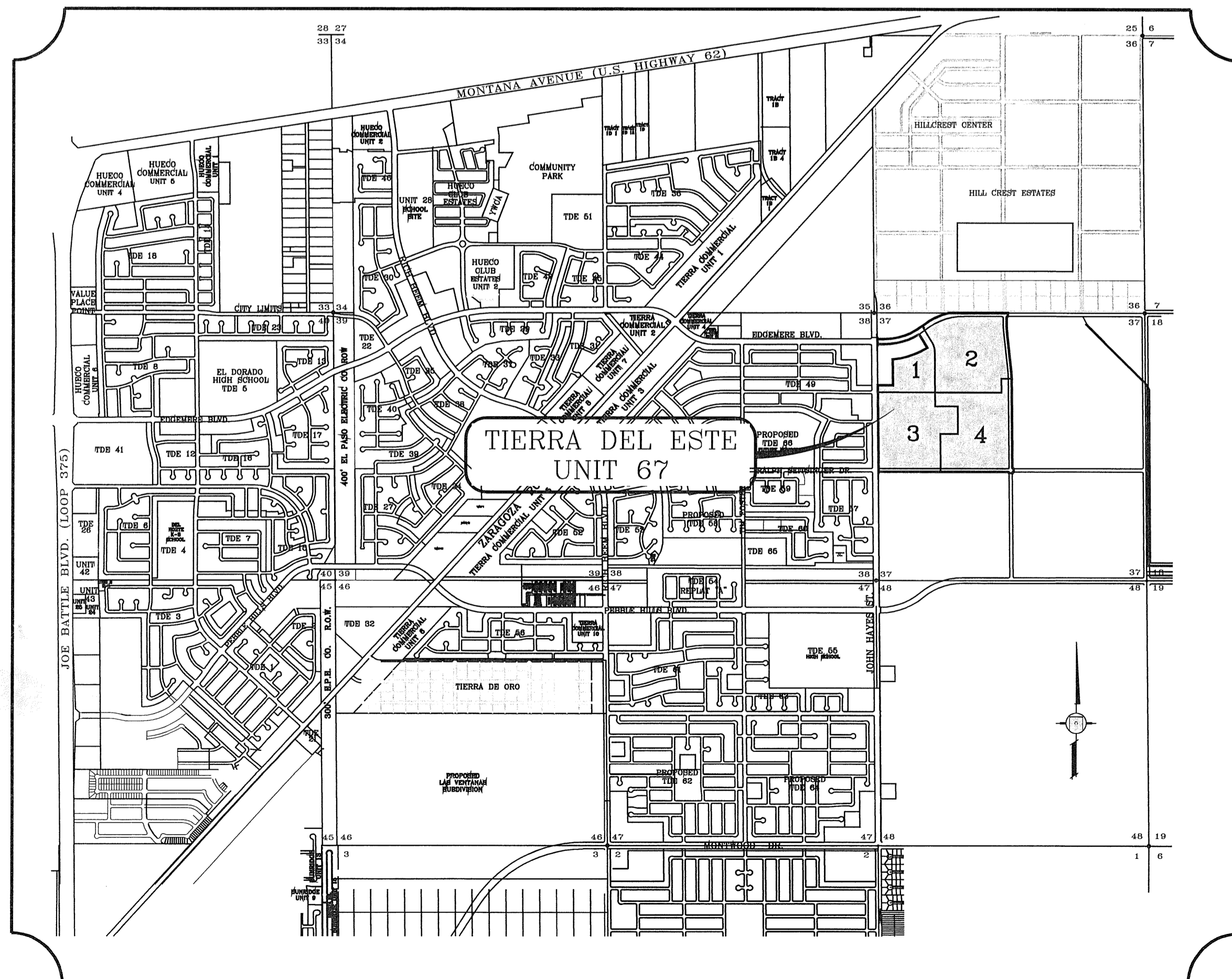
*Antonio del Rio - 09/10/2012*

*Approved*

# STREET IMPROVEMENTS

I N D E X

LOCATION MAP SCALE: 1"=1000'

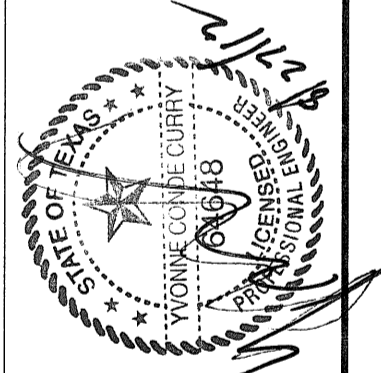


TITLE	SHEET No.	TITLE	SHEET No.
COVER SHEET	01 OF 112	CHRISTIAN CASTLE AVE.	74-77 OF 112
PLAT	02-05 OF 112	ANDALUSIAN PL.	78 OF 112
GRADING PLAN	06-09 OF 112	FALABELLA PL.	79 OF 112
GRADING SECTIONS	10-13 OF 112	PINTO TRAIL PL.	80 OF 112
DRAINAGE PLAN	14-17 OF 112	LUQUITANO PL.	81 OF 112
GRADING STABILIZATION, SWPPP & NOTES	18-22 OF 112	RALPH SEITSINGER DR.	82-85 OF 112
EDGEMERE BLVD.	23-26 OF 112	HANOVERIAN PL.	86 OF 112
SPANISH POINT DR.	27-30 OF 112	BOER TRAIL AVE.	87-88 OF 112
PERCHERON PL. & IGOR KALERI AVE.	31 OF 112	CAMPOLINA PL.	89 OF 112
IGOR KALERI AVE.	32-34 OF 112	GALICENO PL.	90 OF 112
AVA LEIGH AVE.	35-37 OF 112	DRAINAGE STRUCTURES	91-92B OF 112
AZTECA TRAIL DR.	38-40 OF 112	POND SECTIONS	93-93A OF 112
BELGIAN TRAIL ST.	41-43 OF 112	STRUCTURE DETAILS	94-95 OF 112
MIKE PRICE DR.	44-48 OF 112	STANDARD DETAILS	96-96A OF 112
FRIESIAN TRAIL DR.	49-50 OF 112	ILLUMINATION & TRAFFIC CONTROL	97-100 OF 112
BASHKIR TRAIL DR.	51 OF 112	ROUND-ABOUT TRAFFIC CONTROL	100A-100B OF 112
HOLSTEINER CT.	52 OF 112	WATER DISTRIBUTION PLAN	101-102 OF 112
20' R.O.W.	53 OF 112	SEWER DISTRIBUTION PLAN	103-104 OF 112
OLDENBERG CT.	54-55 OF 112	SEWER PROFILES	105-108 OF 112
CHRISTIAN CUNNINGHAM ST.	56-57 OF 112	WATER AND SEWER NOTES	109 OF 112
RANDALL CUNNINGHAM AVE.	58-61 OF 112	SEWER DETAILS	110 OF 112
PERUVIAN PAÑO DR.	62-64 OF 112	WATER DETAILS	111-112 OF 112
JESUS ALMEIDA AVE.	65-67 OF 112	LANDSCAPE AND IRRIGATION	L1-L18 OF 18
SMOKEY POINT DR.	68-69 OF 112	ARTERIAL LIGHTING DESIGN	E1, E2, E7-E18 OF 18
GINGER KERRICK AVE.	70-73 OF 112		

PROJECT NAME

**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, RANGE 10, COUNTY OF EL PASO, TEXAS, BEING SURVEYED AND CONTAINING 168.254± ACRES

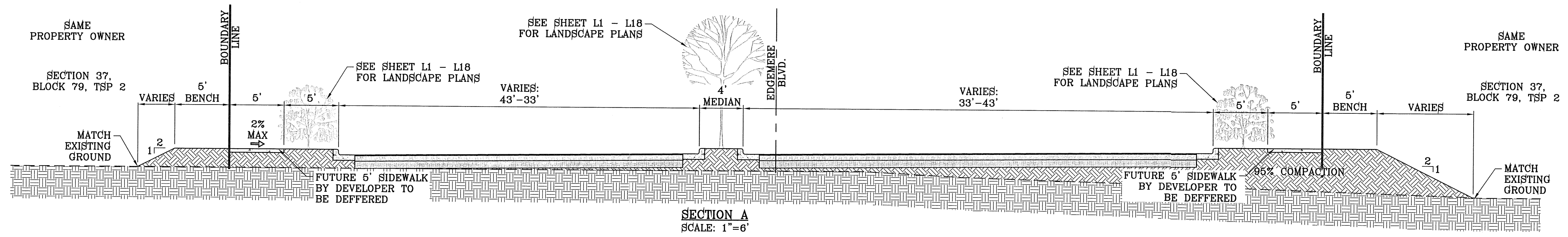


**CONDE INC.**

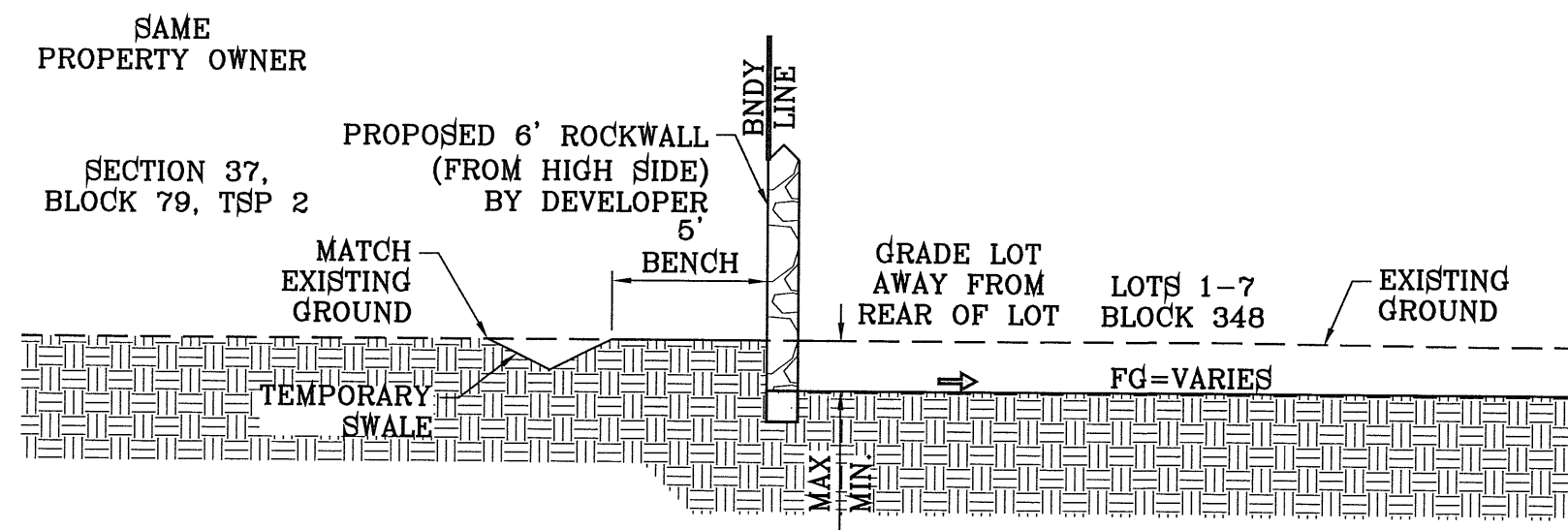
ENGINEERING / PLANNING SURVEYING / GPS

6080 SURETY DR. STE 100 EL PASO, TEXAS 79905

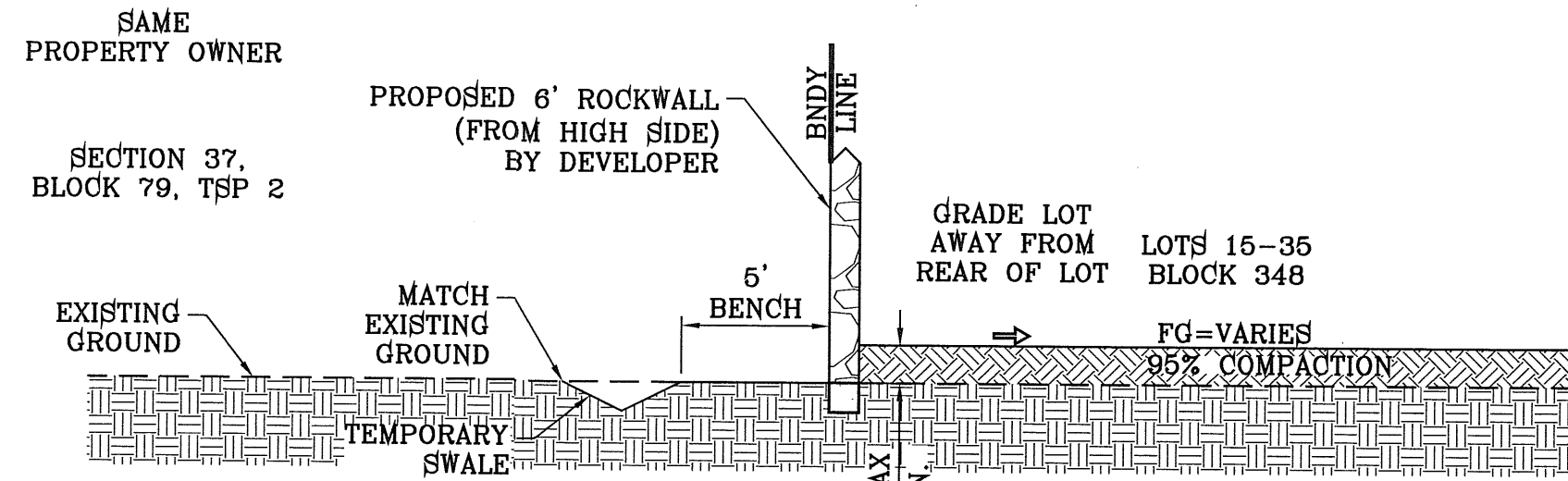
REGISTRATION No. F-2211



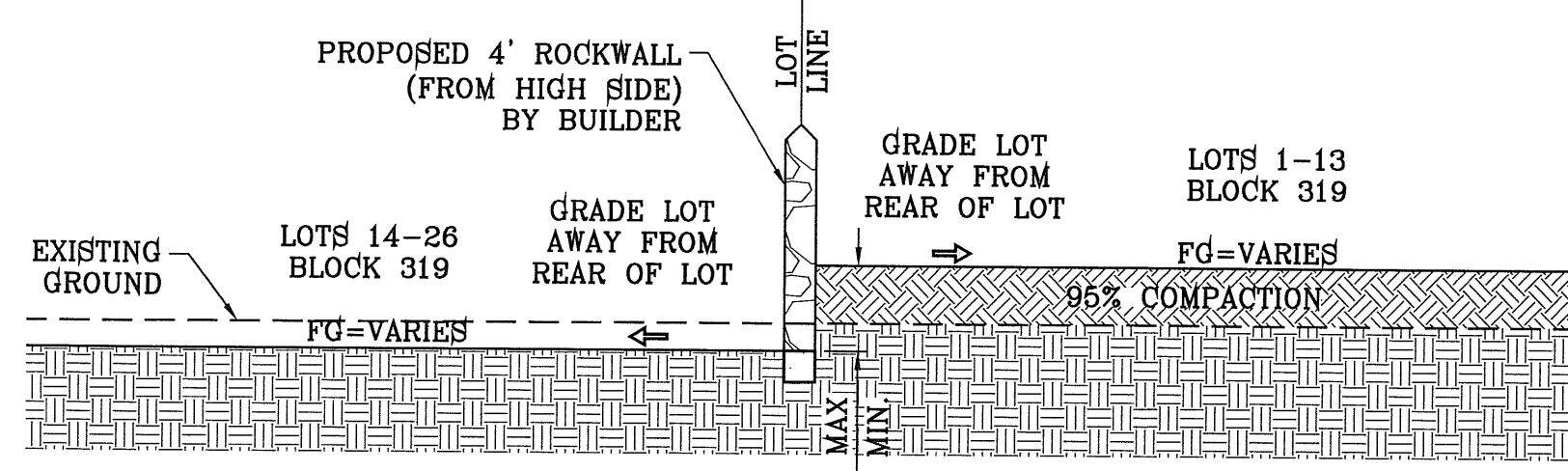
SECTION A  
SCALE: 1"=6'



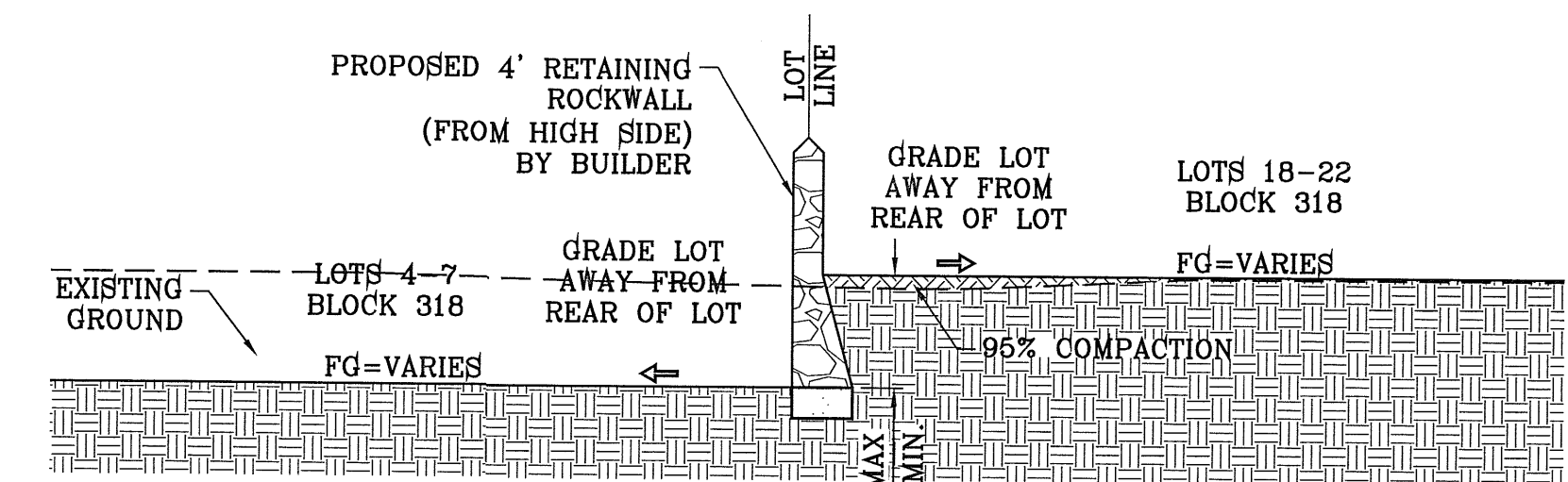
SECTION B  
SCALE: 1"=6'



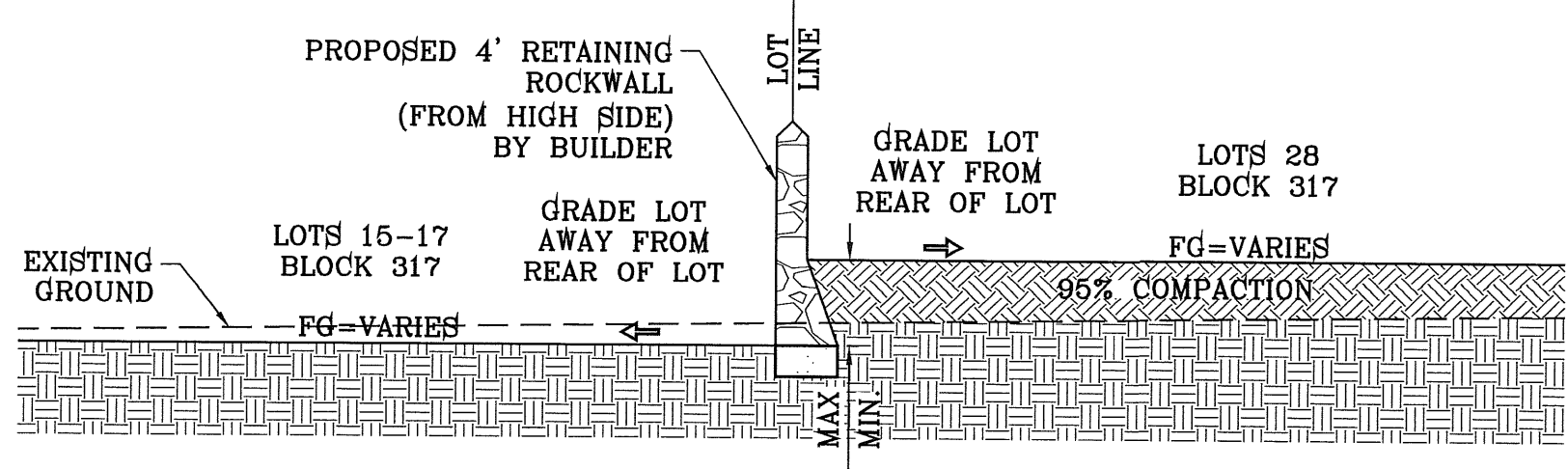
SECTION C  
SCALE: 1"=6'



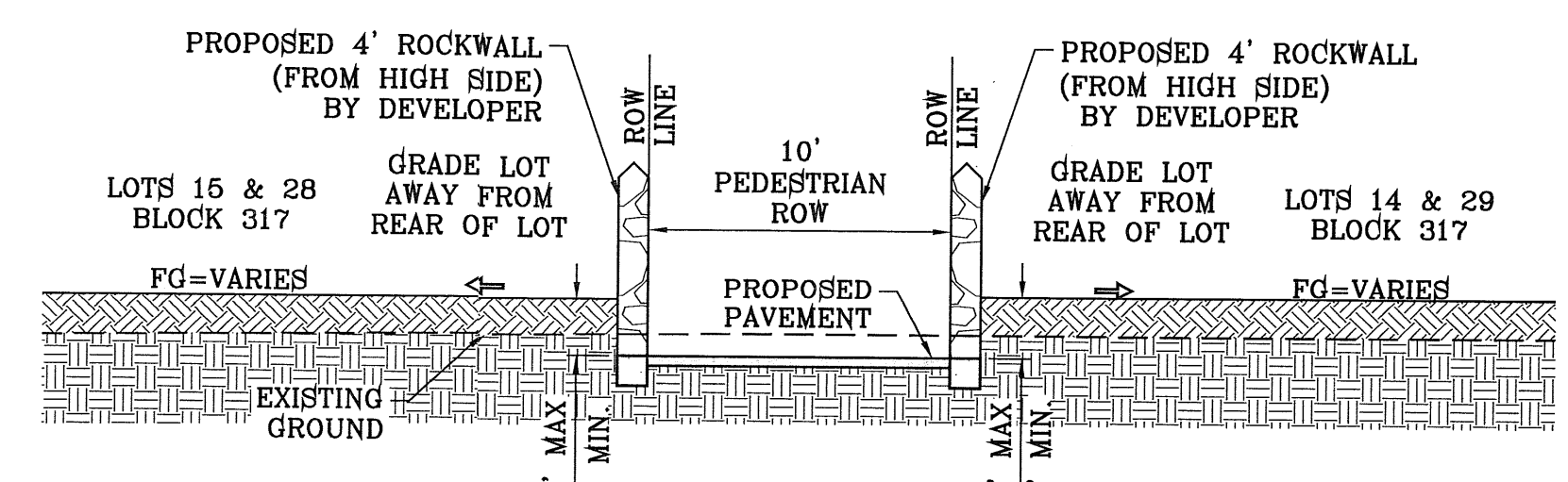
SECTION D  
SCALE: 1"=6'



SECTION E  
SCALE: 1"=6'



SECTION F  
SCALE: 1"=6'



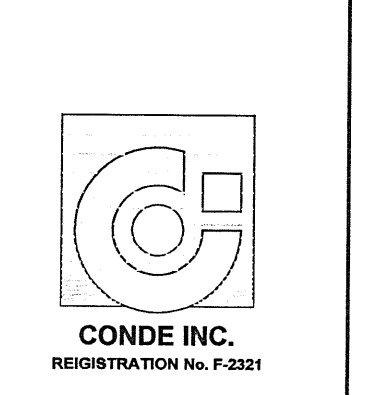
SECTION G  
10' PEDESTRIAN R.O.W.  
SCALE: 1"=6'

BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47
DATE	10/3/11
BY	O.M.
REVISIONS	REVISIONS AS PER 10/19/11 REDLINES
O.M.	REVISIONS AS PER 10/19/11 REDLINES

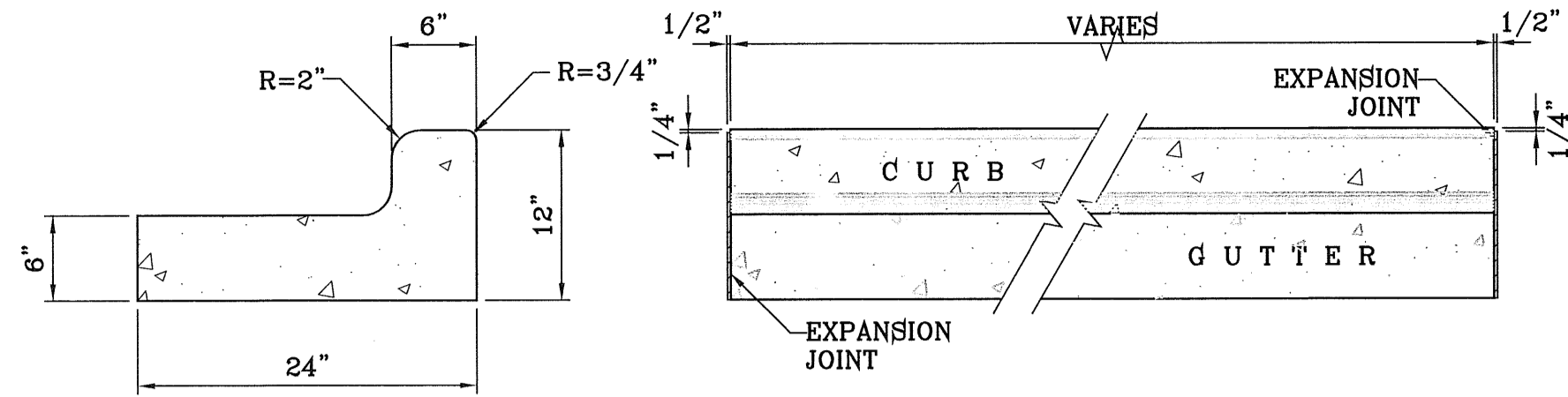
**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
 BRING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

**SCALE**  
 HORIZ: AS NOTED  
 VERT: ---  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: BFG/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0253  
 FAX: (915) 592-0286



SHEET TITLE  
**GRADING SECTIONS**  
 SHT 10 OF 112



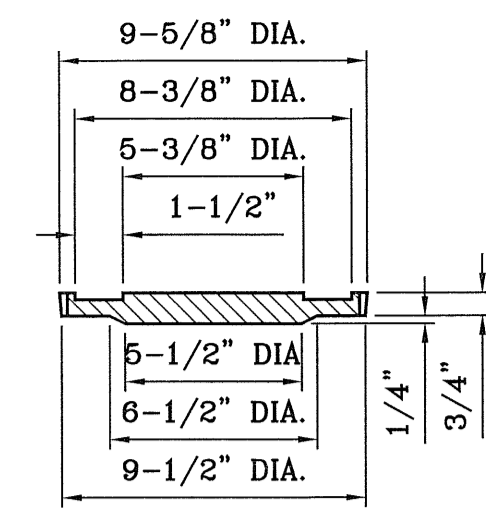
END SECTION

PLAN VIEW

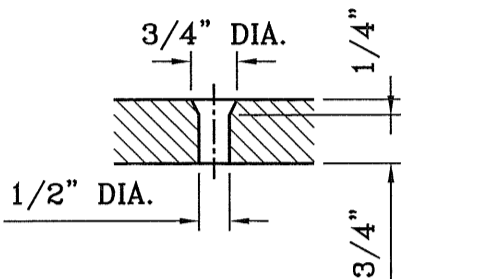
**NOTES:**

1. NO EXPANSION JOINT WILL BE REQUIRED EXCEPT AT THE END OF CURB RETURNS. (POINT OF TANGENCY WITH STRAIGHT LINE).
2. CONTRACTION JOINTS (1/2" INCH MIN.) MUST BE SCORD EVERY 10 FEET IN CURB AND GUTTER.
3. ALL EXPANSION JOINTS WILL BE OF PREFORMED BITUMINOUS FIBER 1/2" INCH THICK.
4. CONCRETE: CLASS "A" 3000 PSL.
5. EXPANSION JOINTS REQUIRED AT 5' O.C. WHEN FORMING FOR CURBS.

**CURB & GUTTER DETAIL**  
SCALE: 1"=1'



**COVER**  
SCALE: 1"=6"



**COUNTERSUNK DETAIL**  
SCALE: 1"=3"

**SIZE AND CONSTRUCTION:**

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

THE MONUMENT SHALL BE COVERED WITH A CAST IRON BOX AND COVER.

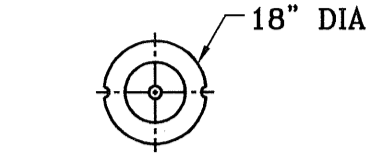
**NUMBER AND LOCATIONS:**

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

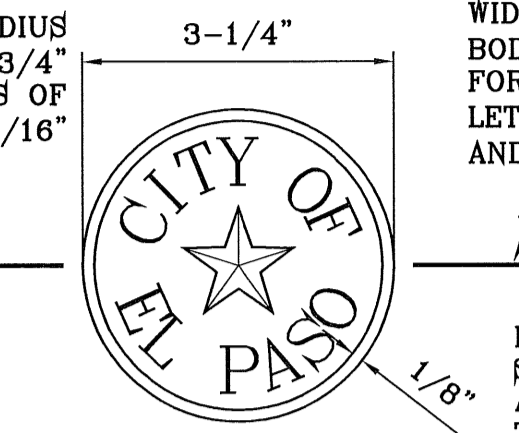
THE SIZE, TOPOGRAPHY AND LAYOUT OF THE SUBDIVISION SHALL GOVERN MONUMENT MUST BE WITHIN THE LINE OF SIGHT OF ANY OTHER MONUMENT (2000 FEET MAXIMUM DISTANCE BETWEEN MONUMENTS). THE NUMBER OF MONUMENTS REQUIRED.

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

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



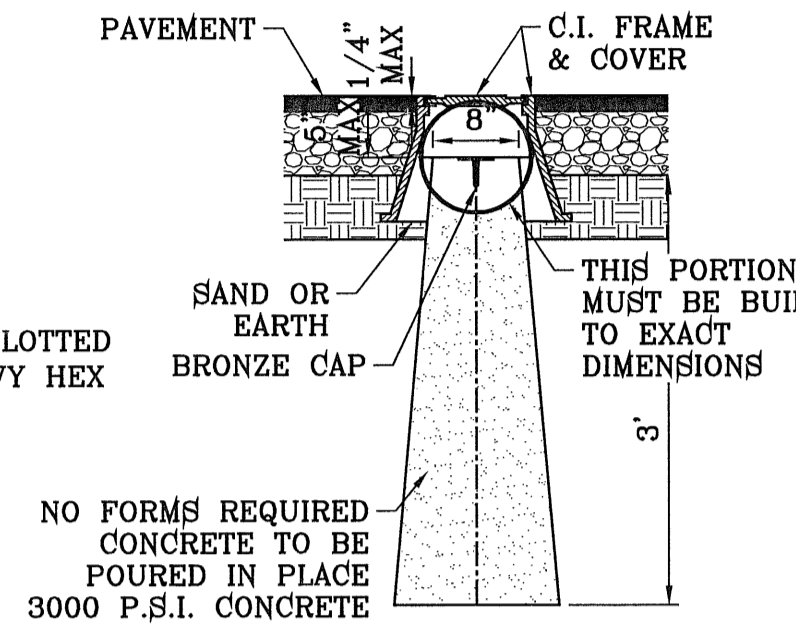
OUTSIDE RADIUS OF STAR = 3/4"  
INSIDE RADIUS OF STAR = 3/16"



**BRONZE MONUMENT CAP**  
SCALE: 1"=2"

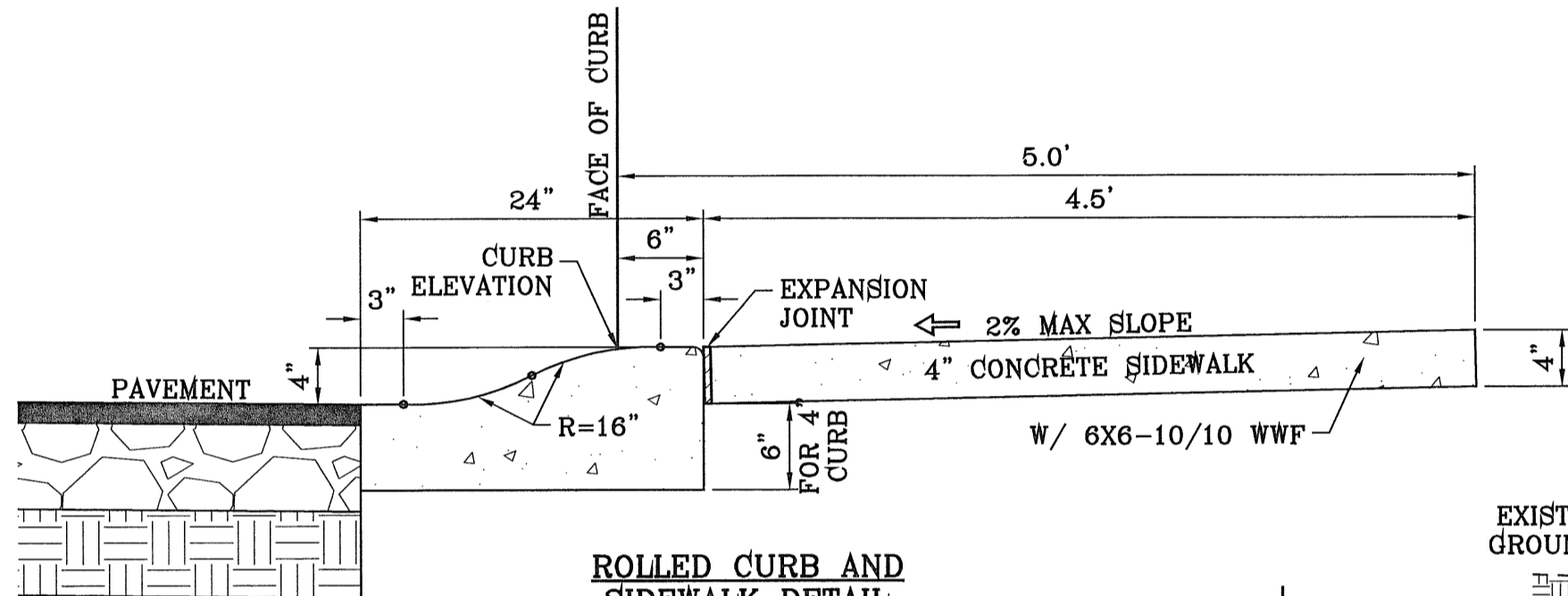
HEIGHT OF LETTERS = 7/16"  
WIDTH OF LETTER BODY = 3/16" RADI FOR POSITION OF LETTERING = 13/16" AND 1-1/4"

EMBOSS STAR, RING AND LETTERS TO HEIGHT OF 3/32"

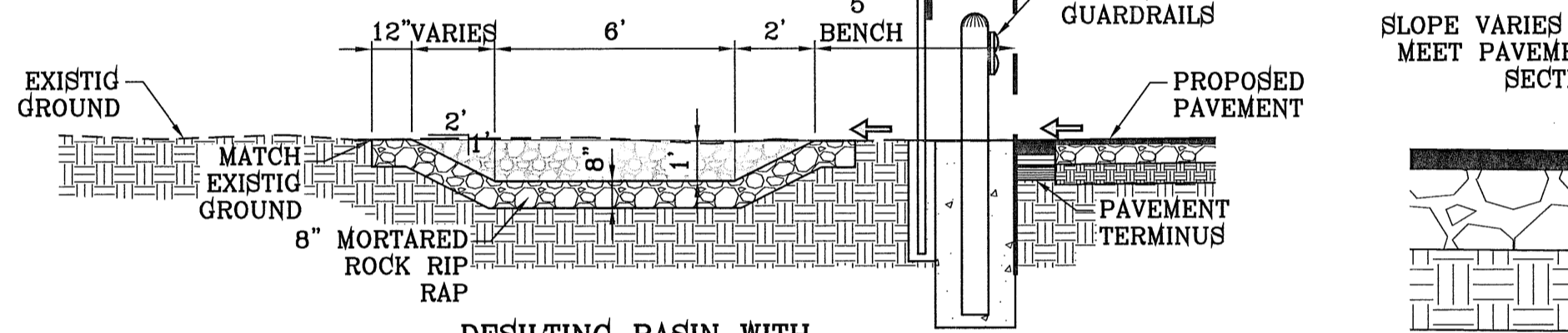


**CITY MONUMENT DETAIL**  
SCALE: 1"=2"

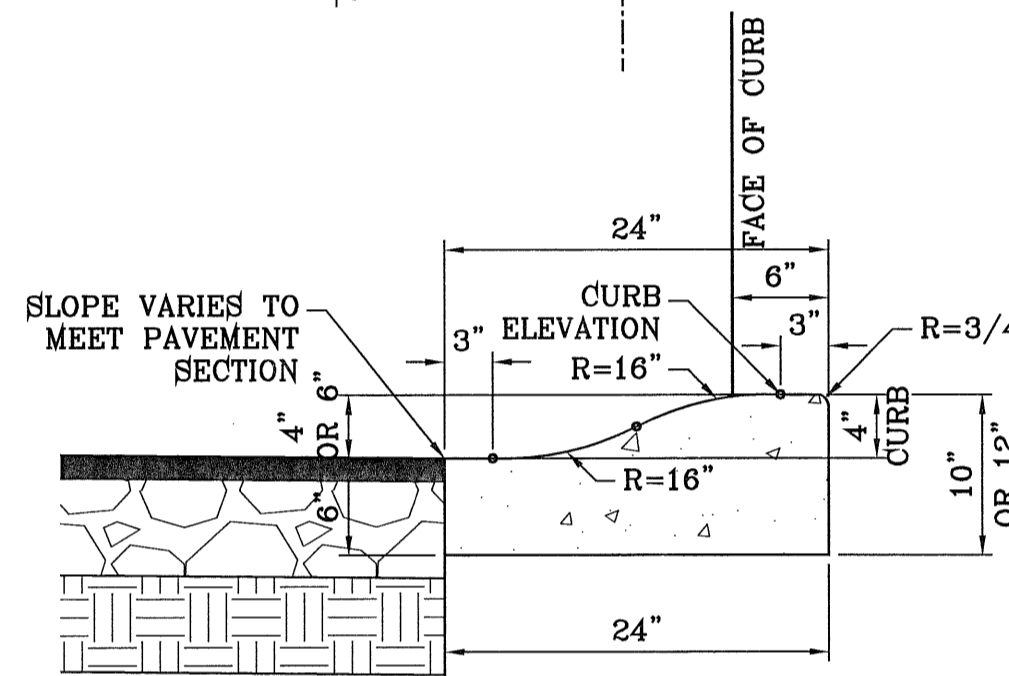
**SECTION A-A**  
SCALE: 1"=2"



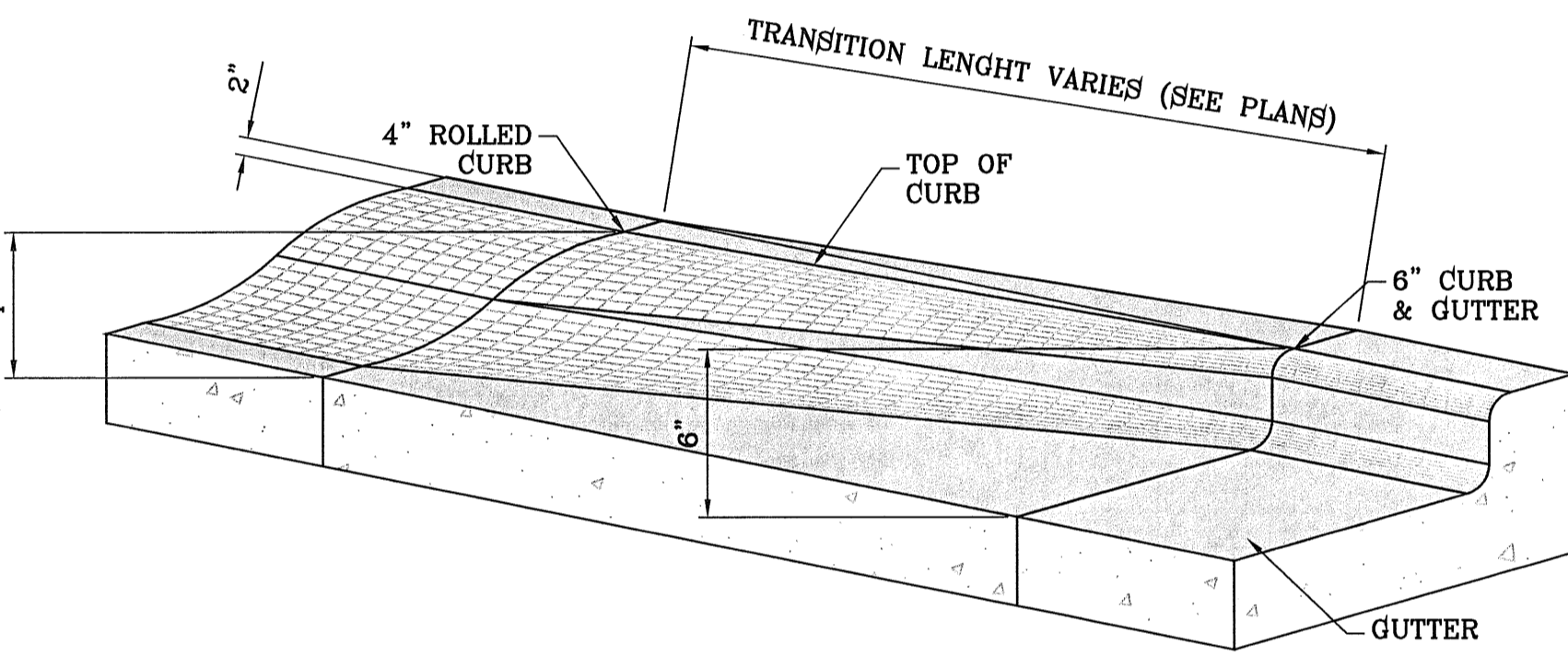
**ROLLED CURB AND SIDEWALK DETAIL**  
SCALE: 1"=1'



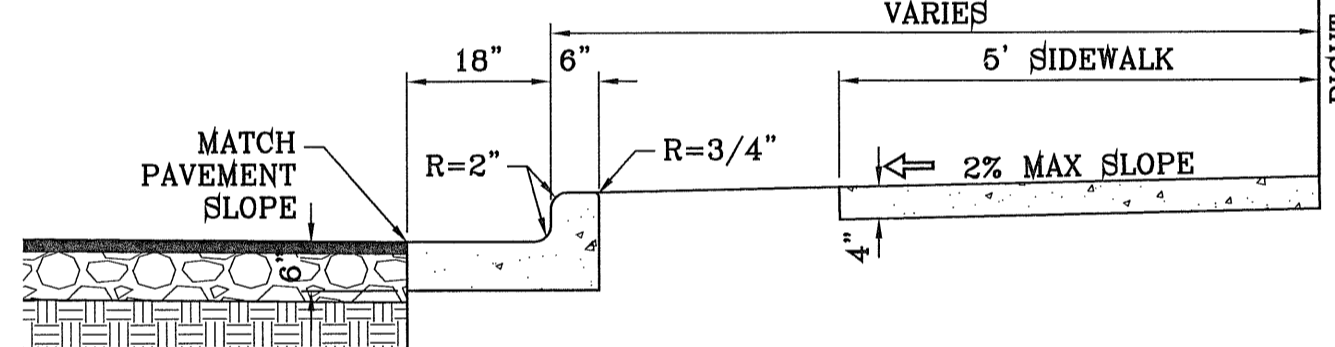
**DESILTING BASIN WITH GUARD RAIL DETAIL**  
SCALE: 1"=4'



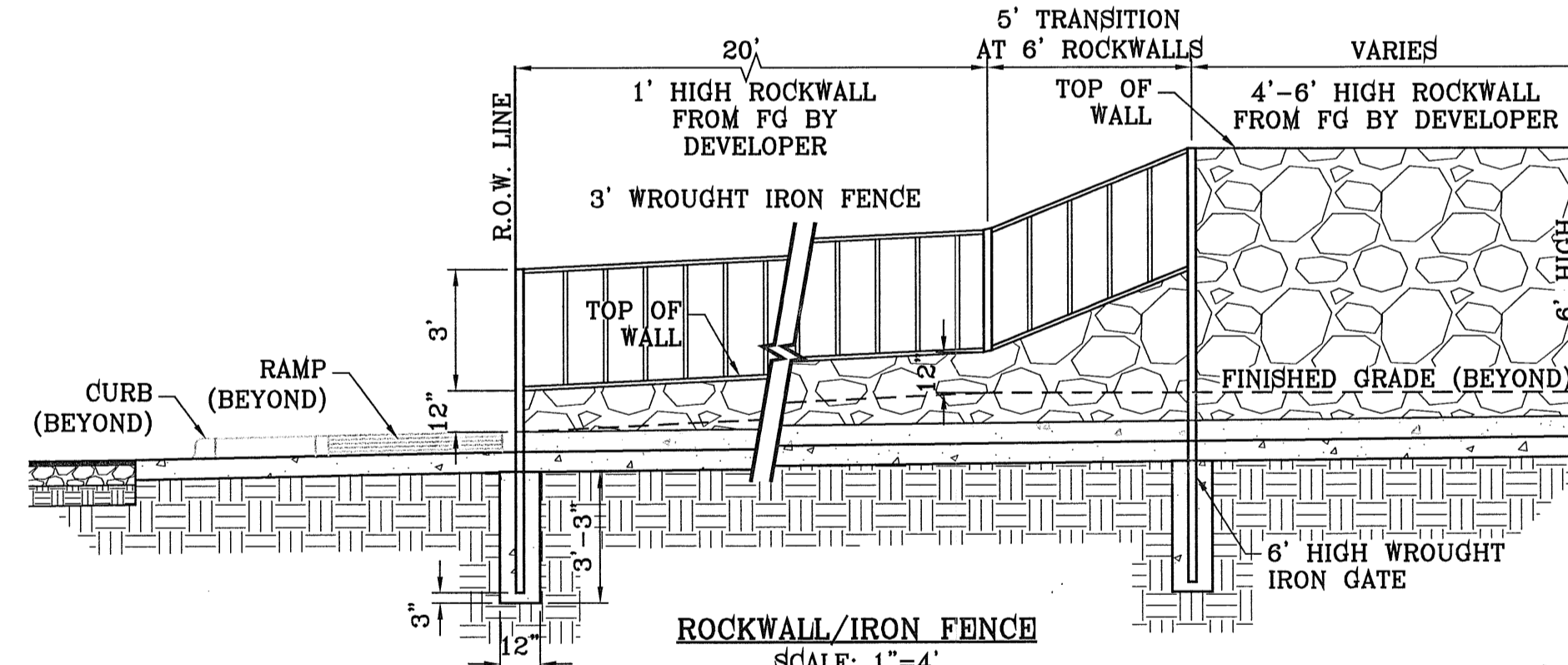
**ROLLED CURB DETAIL**  
SCALE: 1"=1'



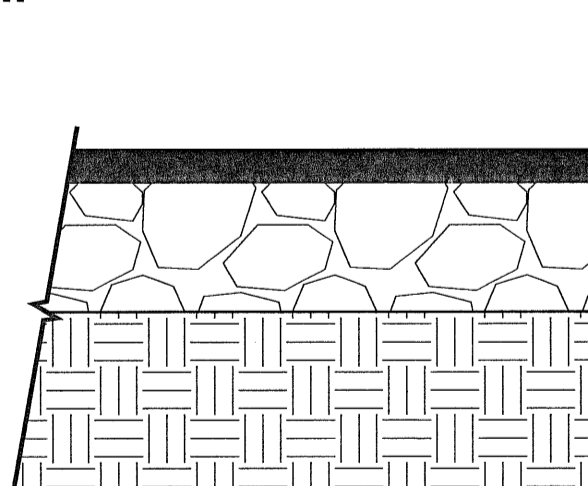
**ROLLED CURB TO CURB & GUTTER TRANSITION**  
SCALE: 1"=1'



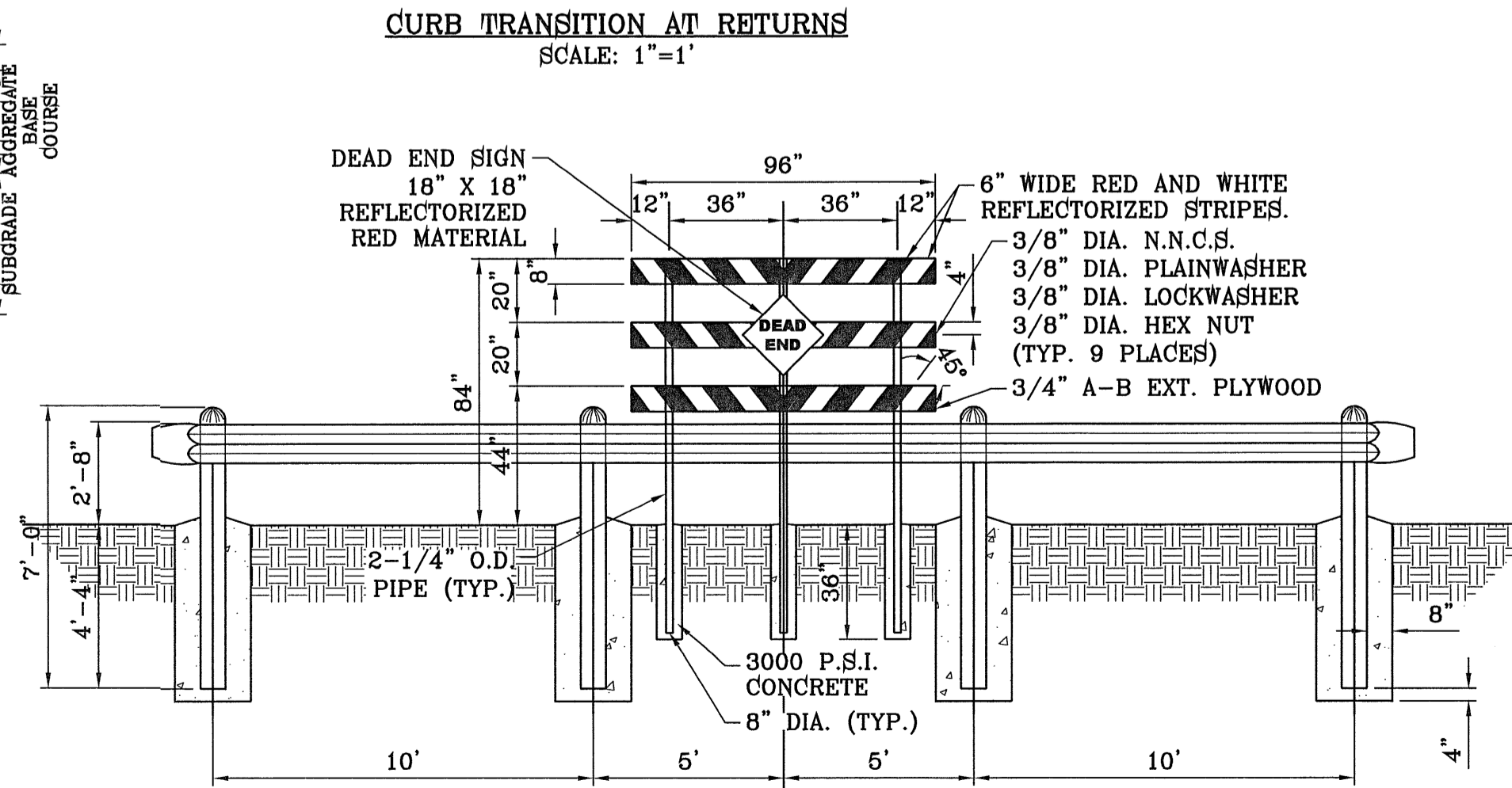
**CURB & GUTTER AND SIDEWALK DETAIL**  
SCALE: 1"=2'



**ROCKWALL/IRON FENCE**  
SCALE: 1"=4'



**PAVEMENT SECTION DETAIL**  
SCALE: 1"=1'



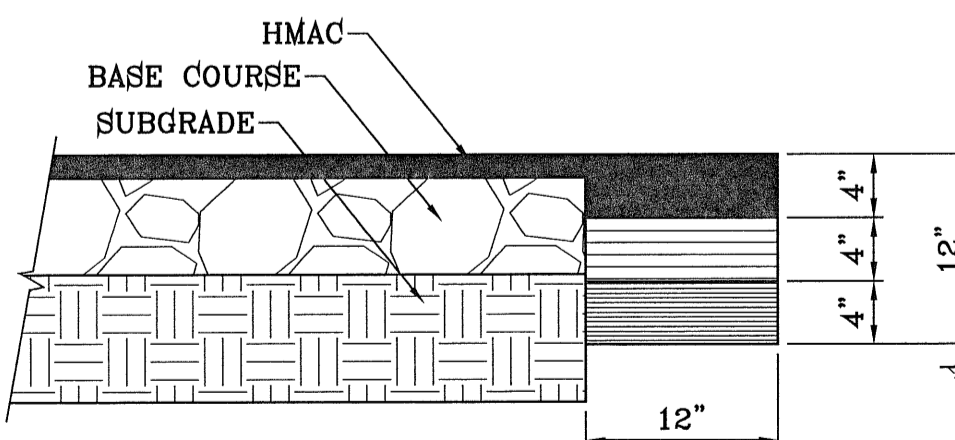
**CURB TRANSITION AT RETURNS**  
SCALE: 1"=1'

**GUARD RAIL DETAIL**  
SCALE: 1"=4'

**NOTE:**  
DEAD END SIGN TO BE USED WITH GUARDRAILS.  
RED AND WHITE PORTIONS TO BE REFLECTIVE SHEETING.  
DEAD END SIGN MUST COMPLY WITH THE CITY OF EL PASO SUBDIVISION DESIGN STANDARDS.

**PAVEMENT NOTES**

1. SUBGRADE TO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS PER ASTM D1557.
2. BASE TO BE COMPACTED TO NOT LESS THAN 100% DENSITY IN ACCORDANCE WITH ASTM D1557. TYPE A, GRADE 1 OR 2.
3. BITUMINOUS MATERIAL SHALL CONFORM TO AC-10 OR AC-20, TYPE "C" IN ACCORDANCE WITH ASTM D3318. PRIME COAT TO BE 0.25 GAL. PER SQUARE YARD (MINIMUM COVERAGE) MC-70.
4. COMPACTION TESTS WHERE REQUIRED BY THE CITY ENGINEER MUST BE PAID FOR BY THE DEVELOPER. C.B.R. TESTS WILL BE REQUIRED AT 500 FOOT INTERVALS AFTER SUBGRADE IS PLACED AND/OR A MINIMUM OF TWO TESTS IF STREET IS LESS THAN 500 FEET.
5. STRICT VERTICAL CONTROL OF ALL CURB AND GUTTER ELEVATIONS WILL BE MAINTAINED. BLUE TOPPING WILL BE REQUIRED THROUGHOUT.
6. ALL PLANS MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF EL PASO SUBDIVISION DESIGN AND IMPROVEMENT STANDARDS.
7. H.M.A.C. BASE, SUB BASE WILL BE IN ACCORDANCE WITH THE LATEST CITY OF EL PASO SPECIFICATIONS.
8. MINIMUM PAVEMENT DESIGN DETAILS ARE SHOWN. ACTUAL PAVEMENT DESIGN WILL BE DETERMINED BY: C.B.R.



**PAVEMENT TERMINUS**  
SCALE: 1"=1'

**NOTE:**

THICKENED EDGE SHALL BE CONSTRUCTED IN COURSED NOT OVER 4" IN THICKNESS, EACH COURSE THOROUGHLY COMPACTED BEFORE PLACING NEXT COURSE, FINAL COURSE. FINAL COURSE TO BE PLACED MONOLITHIC WITH PAVEMENT.

**TYPICAL TRENCH SECTION**  
SCALE: 1"=3'

**TRENCHING**  
ALL TRENCHING SHALL BE DONE IN STRICT ACCORDANCE WITH OSHA-2226.

FILE LOCATION S:\\_Subdivisions\TDE 67.DWG\TDE67-STD\_DET PLOTTED ON Thursday, August 23, 2012 9:16:46 AM BY OSCAR MEDINA

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
	O.M.
	O.M.

**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.854+ ACRES

PROJECT NAME

S.C.A.L.E.

ENGINEER'S SEAL

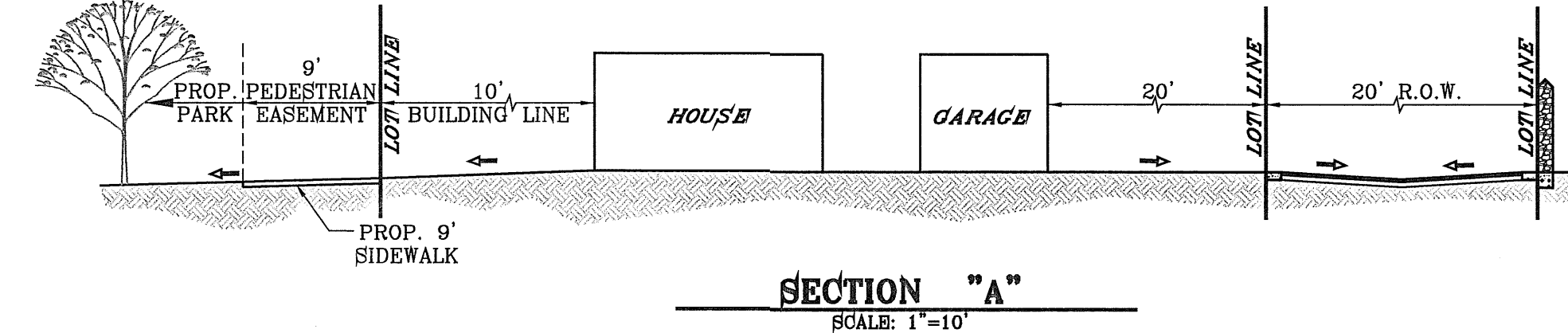
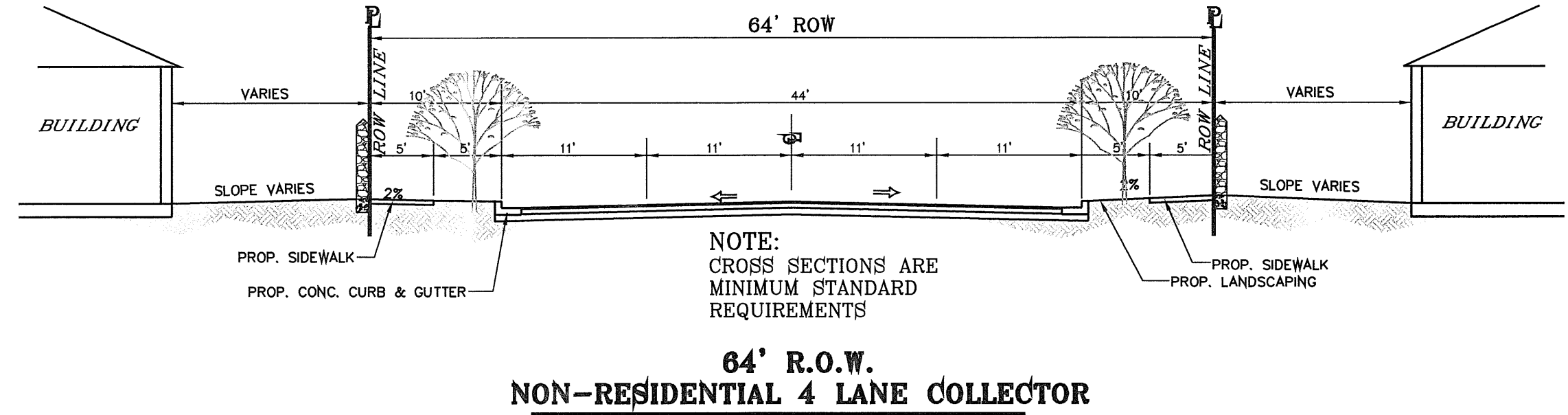
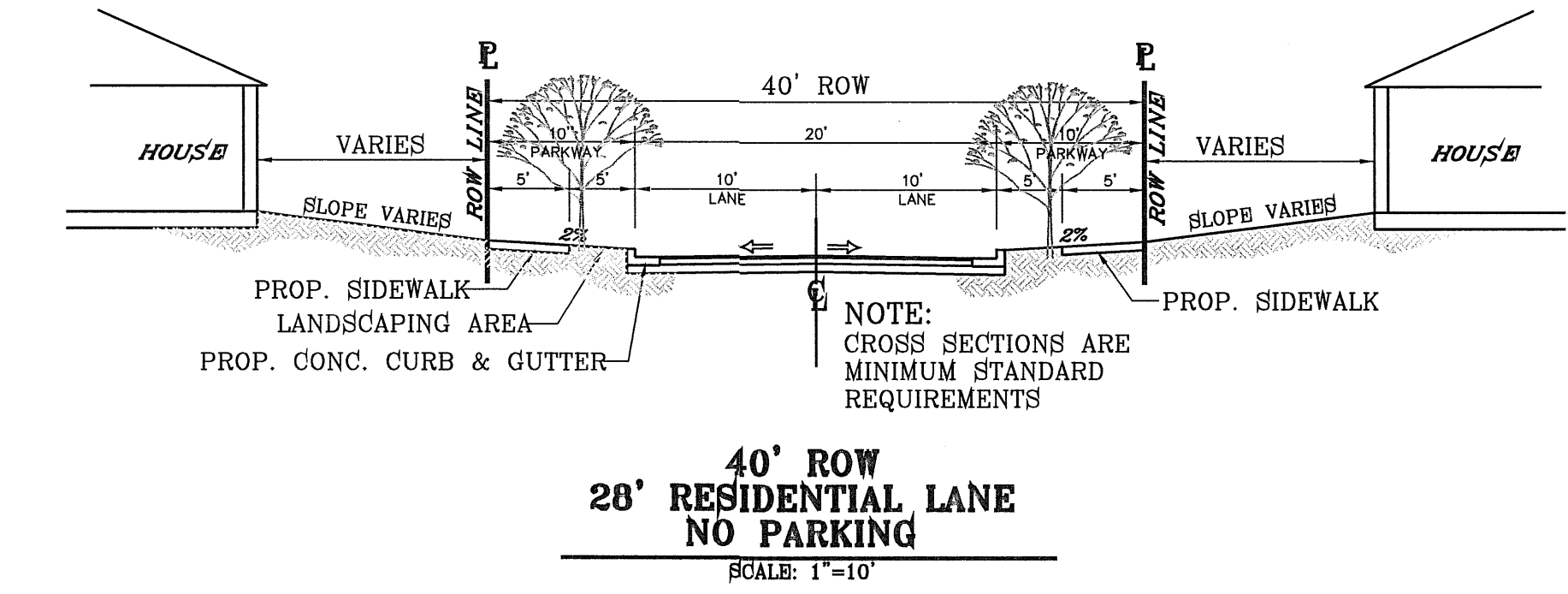
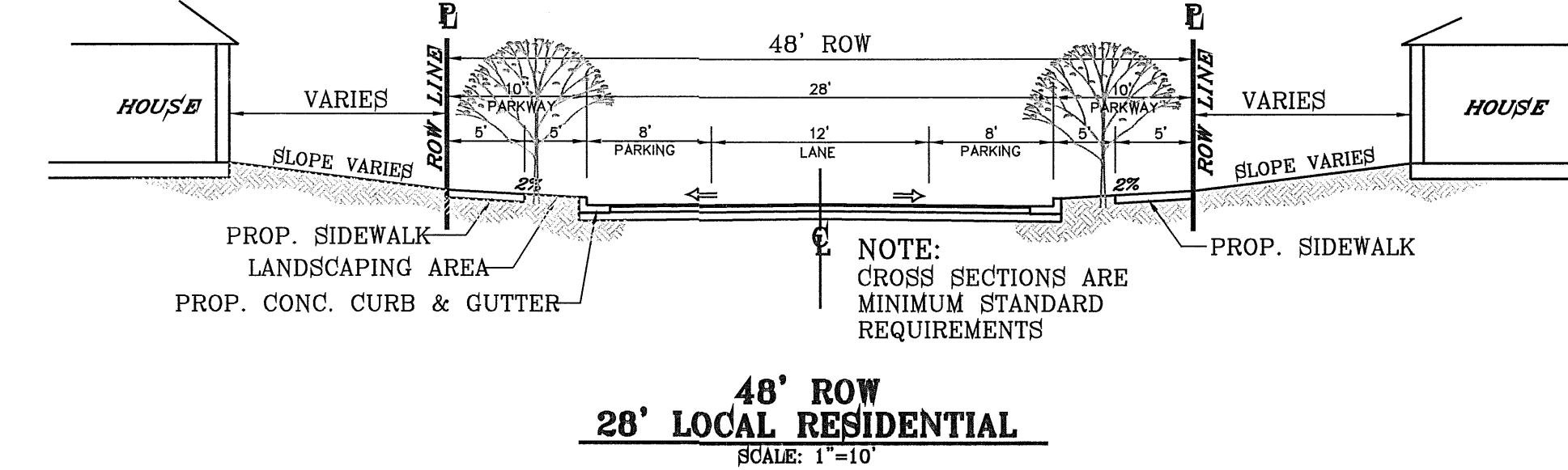
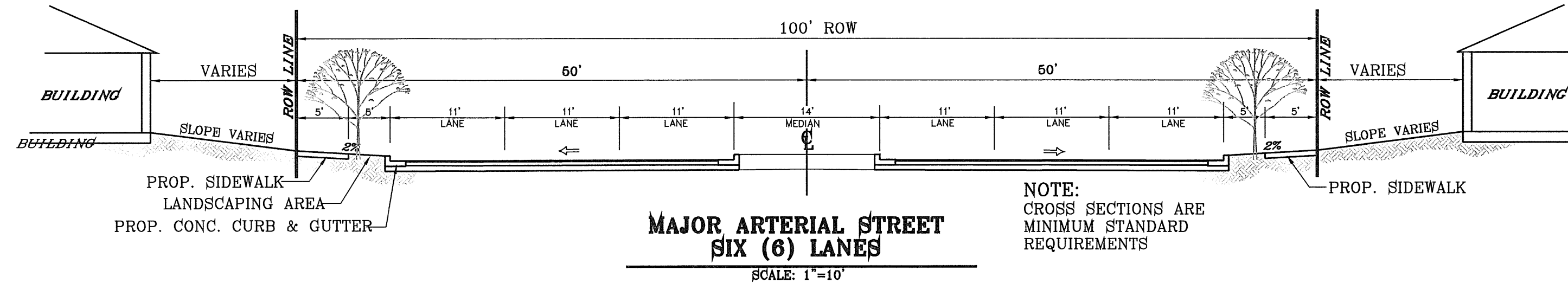
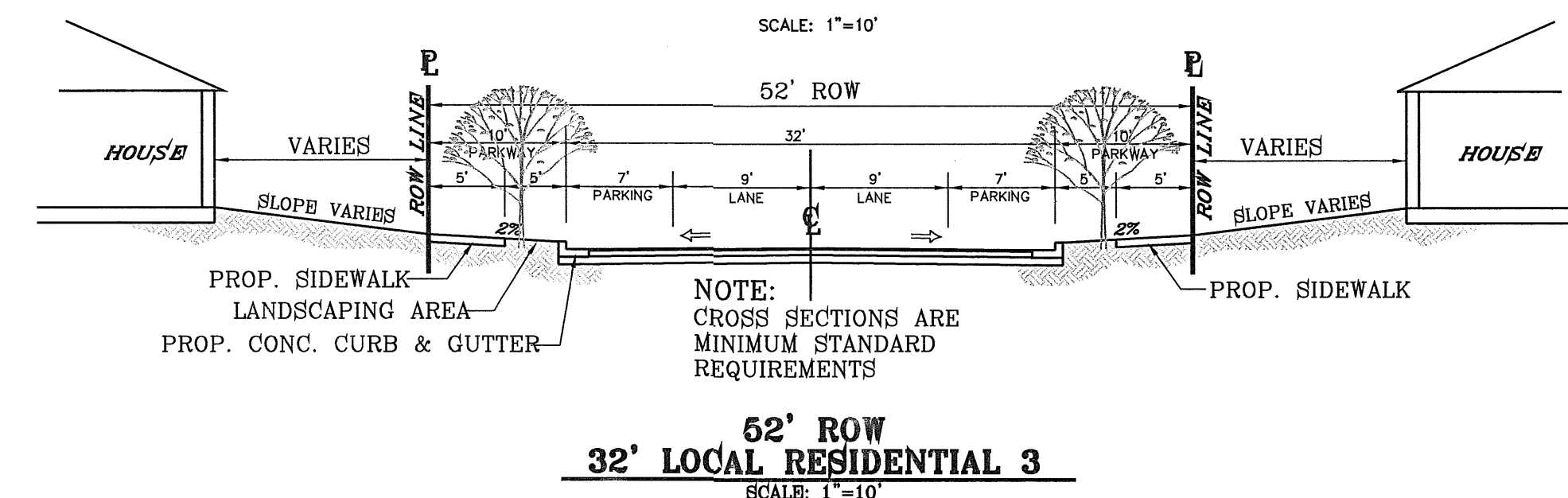
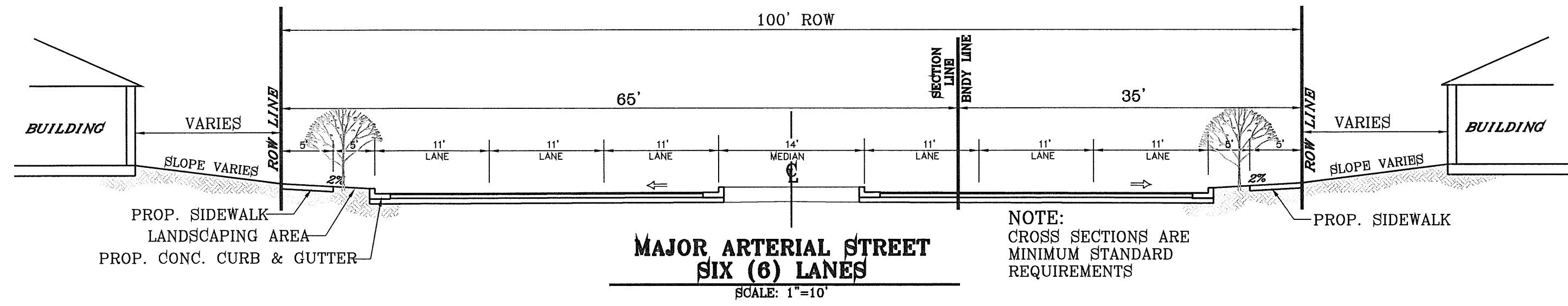
ENGINEER'S SEAL

CONDE INC.

SHEET TITLE

STANDARD DETAILS

FILE LOCATION S:\Subdivisions\TDE 67\DWG\TDE67-SHT\_DET PLOTTED ON Thursday, August 23, 2012 9:16:55 AM BY OSCAR MEDINA



BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE	REVISIONS	BY
10/3/11	REVISIONS AS PER 8/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

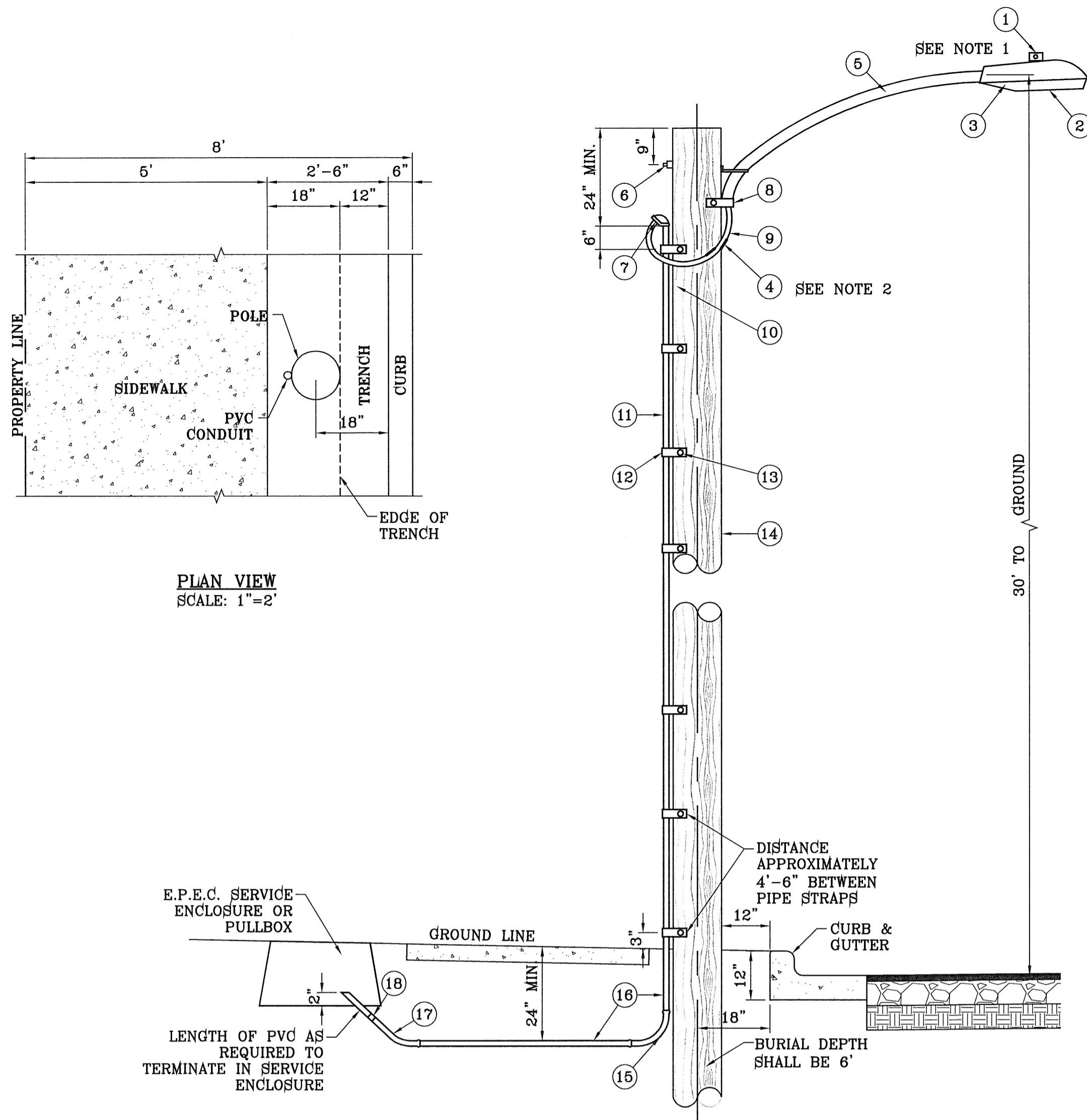
SCALE

HORIZ. AS NOTED	VERT. --
DATE: MAY 2012	DESIGN BY: YC
INITIATED BY: EFG/OM	CHECKED BY: YC
ENGINEER'S SEAL	JOB NO.: 1110-1B

ENGINEER'S SEAL  
ENGINEER'S SEAL NOT REQUIRED.  
THIS SHEET IS PRODUCED FROM CITY SUBDIVISION DESIGN STANDARDS

**CONDE INC.**  
ENGINEERING / PLANNING / SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 582-0283  
FAX: (915) 582-0286



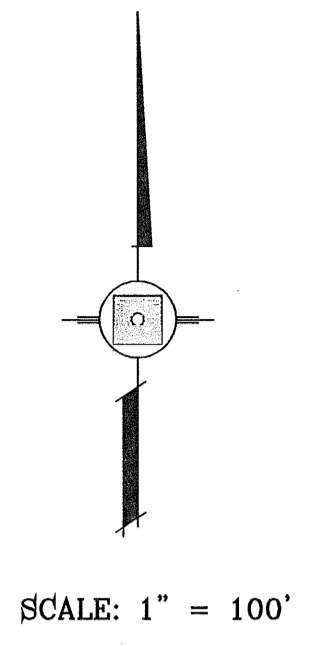


PLAN VIEW  
SCALE: 1"=2'

UNDERGROUND RESIDENTIAL  
STREET LIGHT WOOD POLE  
E.P.E.C. STD. DSU 805  
SCALE: 1"=2'

**NOTE:**  
FOR ARTERIAL LIGHTING (EDGEMERE, MIKE PRICE AND RALPH SEITSINGER) SEE SHEETS E1, E2, E7-E18

ANY UTILITIES PLACED WITHIN PARK SITE(S) SHALL BE AT MINIMUM OF FIVE FEET DEEP. WHERE POSSIBLE AND PREFERABLY, UTILITIES SHALL BE PLACED UNDERNEATH THE PROPOSED 7' WIDE SIDEWALK TO AVOID FUTURE CONFLICT WITH THE PROPOSED STREET TREE LINE OR DAMAGE TO THE UTILITIES.



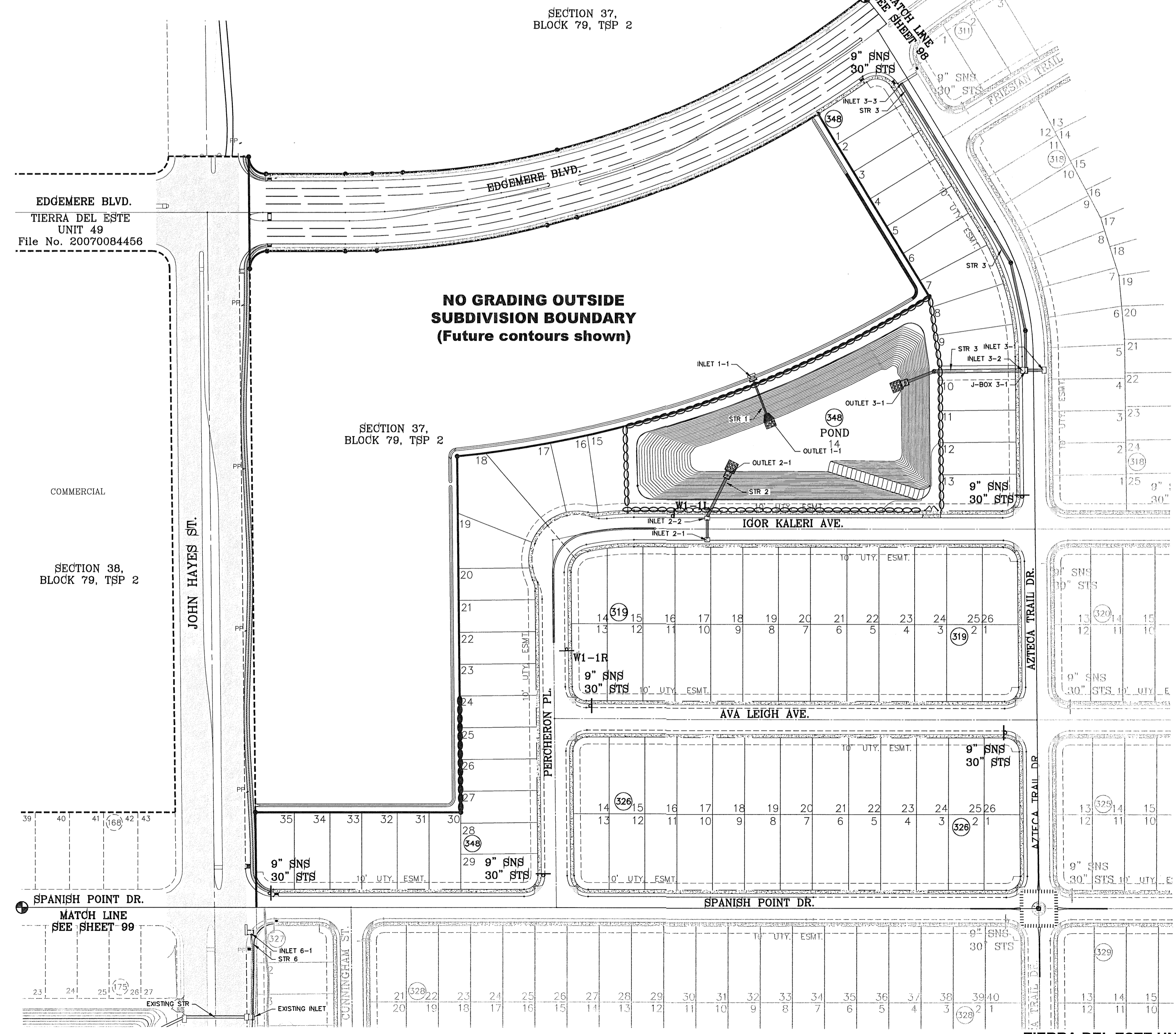
- LEGEND**
- PROPOSED LIGHT
  - EXISTING LIGHT
  - STOP SIGN WITH STREET NAME

**NOTE:** STREET LIGHTING TO BE IN ACCORDANCE WITH EL PASO DESIGN STANDARDS, SECTION VIII

**NOTE:** INSTALL TRAFFIC CONTROL DEVICES AS SHOWN AND IN ACCORDANCE WITH CITY OF EL PASO DESIGN STANDARDS, SECTION VII

- 1 MOUNT SO THAT PHOTO CELL IS FACING NORTH.
- 2 ITEM #9 SHALL NOT BE SPLICED INSIDE ITEM #6.
- 3 INSTALLATION MUST COMPLY WITH LOCAL CODE REQUIREMENTS.
- 4 FOR ANY CLARIFICATION, EXCEPTIONS OR QUESTIONS REGARDING THIS STANDARD, CALL THE EL PASO ELECTRIC COMPANY DISTRIBUTION DESIGN DEPARTMENT.

ITEM	No.	DESCRIPTION	STOCK\DSU No.	QTY.	C\U CODE	MACRO CODE
1		PHOTOCELL, 240 V-SEE NOTE 1	21-225	1		LCOBRAUD
2		HPS LAMP 100 W	21-085	1		
3		LUMINAIRE, 100 W HPS	21-335	1		
4		SLEEVES, #12-10	05-140	2		
5		MAST ARM, 6' x 1 1/4"	21-200	1	LBRKT1*6	
6		MACHINE BOLT, 5/8" x 12"	02-470	1		
		SQUARE GALV. WASHER, 2 1/4"x2 1/4"	02-760	1	LMB5/812	
		COIL SPRING WASHER, 5/8"	02-786	1		
		LOCK NUT, 5/8"	02-706	1		
		SERVICE ENTRANCE CAP FOR 1" PVC CONDUIT	17-281	1	LSVCCAP1	
8		LAG BOLT, 1/2" x3"	02-343	2	LLAG12*3	
9		CABLE #10, 2 CONDUCTOR, 600V, UF	13-600	8'	L2C#10S	
10		COPPER CBL. #12, 19 SOLID, 600V 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	7	LPVOSTRP	
13		NAIL, STAINLESS STEEL SCREW 2.5"	14-427	.25#	LNAL14*2	
14		POLE, 36" CLASS 4	09-035	1	L354UG	
15		1" PVC 90 DEGREE ELBOW	17-297	1	LEL901	
16		1" PVC CONDUIT	17-299	AS REQ'D	LPVC1	
17		1" PVC 45 DEGREE ELBOW	17-298	1	LEL451	
18		1" PVC COUPLING	17-296	1	LCPLG1	



BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.  
ELEVATION 4017.47

DATE: 10/9/11  
REVISIONS AS PER 8/24/11 REDLINES

DATE: 11/1/11  
REVISIONS AS PER 10/19/11 REDLINES

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

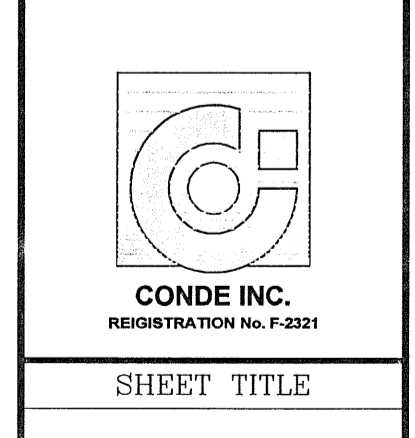
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS. CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

SCALE  
HORIZ: 1" = 100'  
VERT: ---

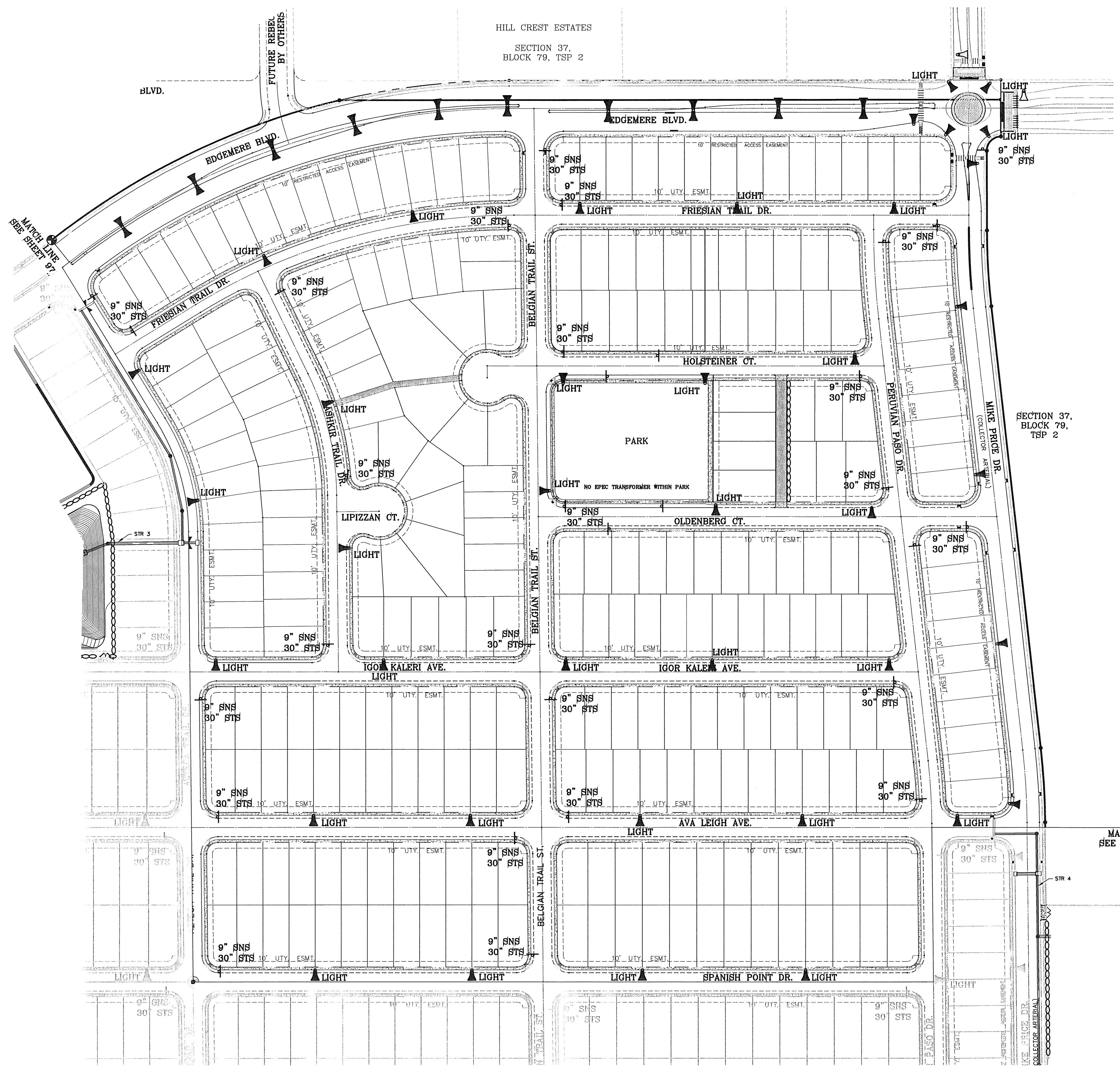
DATE: MAY 2012  
DESIGN BY: ME  
INITIATED BY: BROMOM  
CHECKED BY: YC  
JOB NO.: 1110-18



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR, STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 582-0283  
FAX: (915) 592-0286

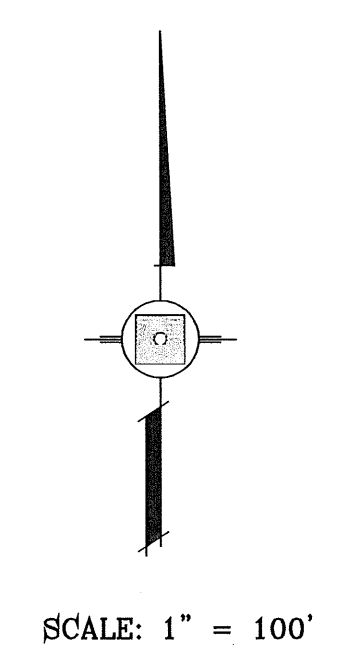


**ILLUMINATION & TRAFFIC CONTROL PLAN**



**NOTE:**  
 FOR ARTERIAL LIGHTING (EDGEMERE, MIKE PRICE AND RALPH SEITSINGER) SEE SHEETS E1, E2, E7-E18

ANY UTILITIES PLACED WITHIN PARK SITE(S) SHALL BE AT MINIMUM OF FIVE FEET DEEP. WHERE POSSIBLE AND PREFERABLY, UTILITIES SHALL BE PLACED UNDERNEATH THE PROPOSED 7' WIDE SIDEWALK TO AVOID FUTURE CONFLICT WITH THE PROPOSED STREET TREE LINE OR DAMAGE TO THE UTILITIES.



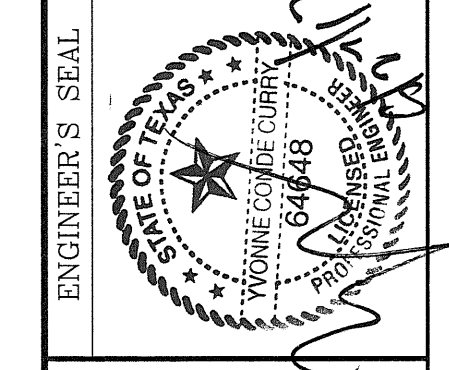
BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47
DATE	REVISIONS
10/23/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
	O.M.
	O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

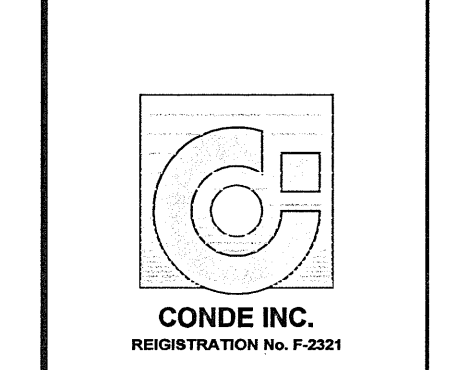
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

S C A L E  
 HORIZ: 1" = 100'  
 VERT: ---

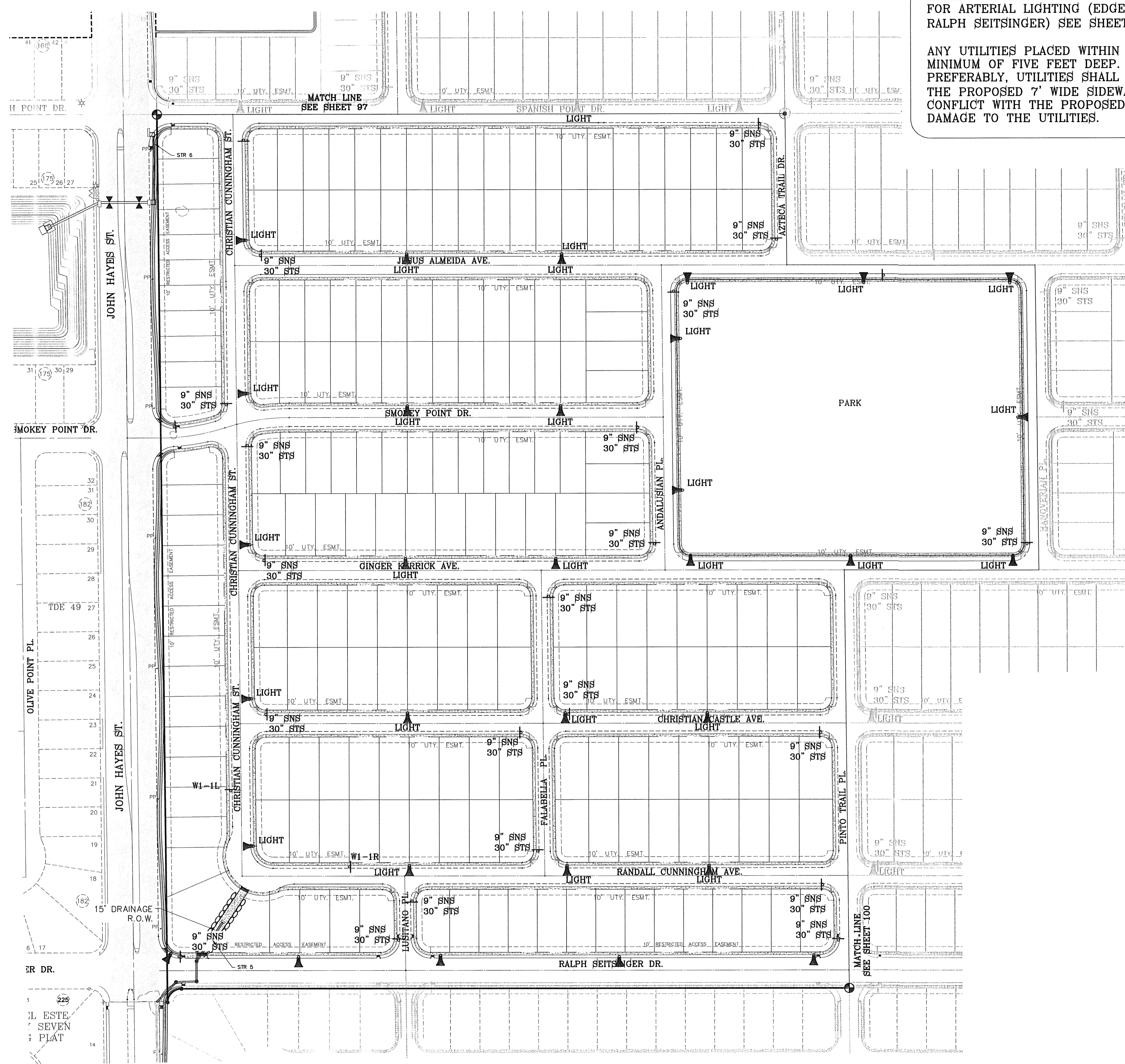
DATE: MAY 2012  
 DESIGN BY:  
 INITIATED BY:  
 CHECKED BY: YC  
 JOB NO.: 1110-18



**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

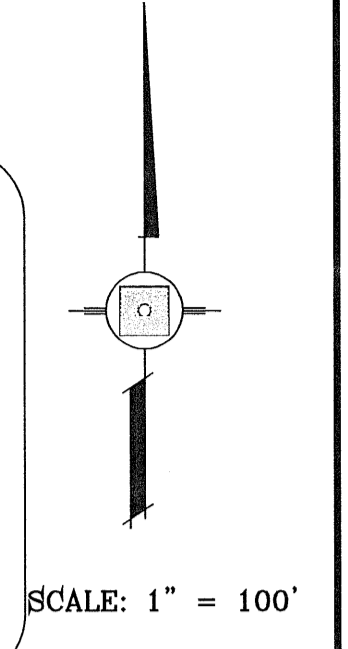


SHEET TITLE  
**ILLUMINATION & TRAFFIC CONTROL PLAN**



**NOTE:**  
 FOR ARTERIAL LIGHTING (EDGEMERE, MIKE PRICE AND RALPH SEITZINGER) SEE SHEETS E1, E2, E7-E18

ANY UTILITIES PLACED WITHIN PARK SITE(S) SHALL BE AT MINIMUM OF FIVE FEET DEEP. WHERE POSSIBLE AND PREFERABLY, UTILITIES SHALL BE PLACED UNDERNEATH THE PROPOSED 7' WIDE SIDEWALK TO AVOID FUTURE CONFLICT WITH THE PROPOSED STREET TREE LINE OR DAMAGE TO THE UTILITIES.



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST AND SPANISH POINT LN	ELEVATION 4017.47
DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
BY	O.M.
	O.M.

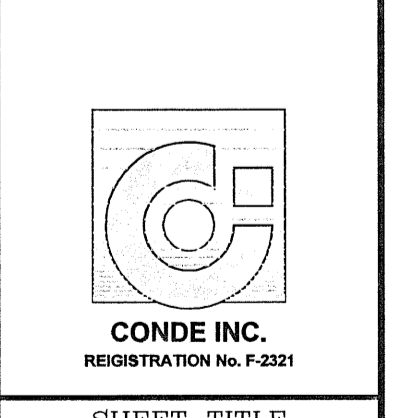
**PROJECT NAME**  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 27, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

SCALE	
HORIZ: 1" = 100'	VERT: ---
DATE: MAY 2012	DESIGN BY:
INITIATED BY:	CHECKED BY: YC
JOB NO.: 1110-18	

**ENGINEER'S SEAL**

**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286



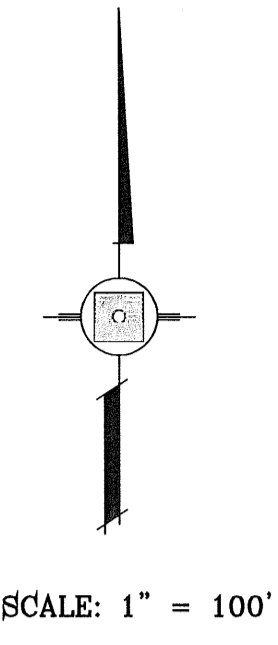
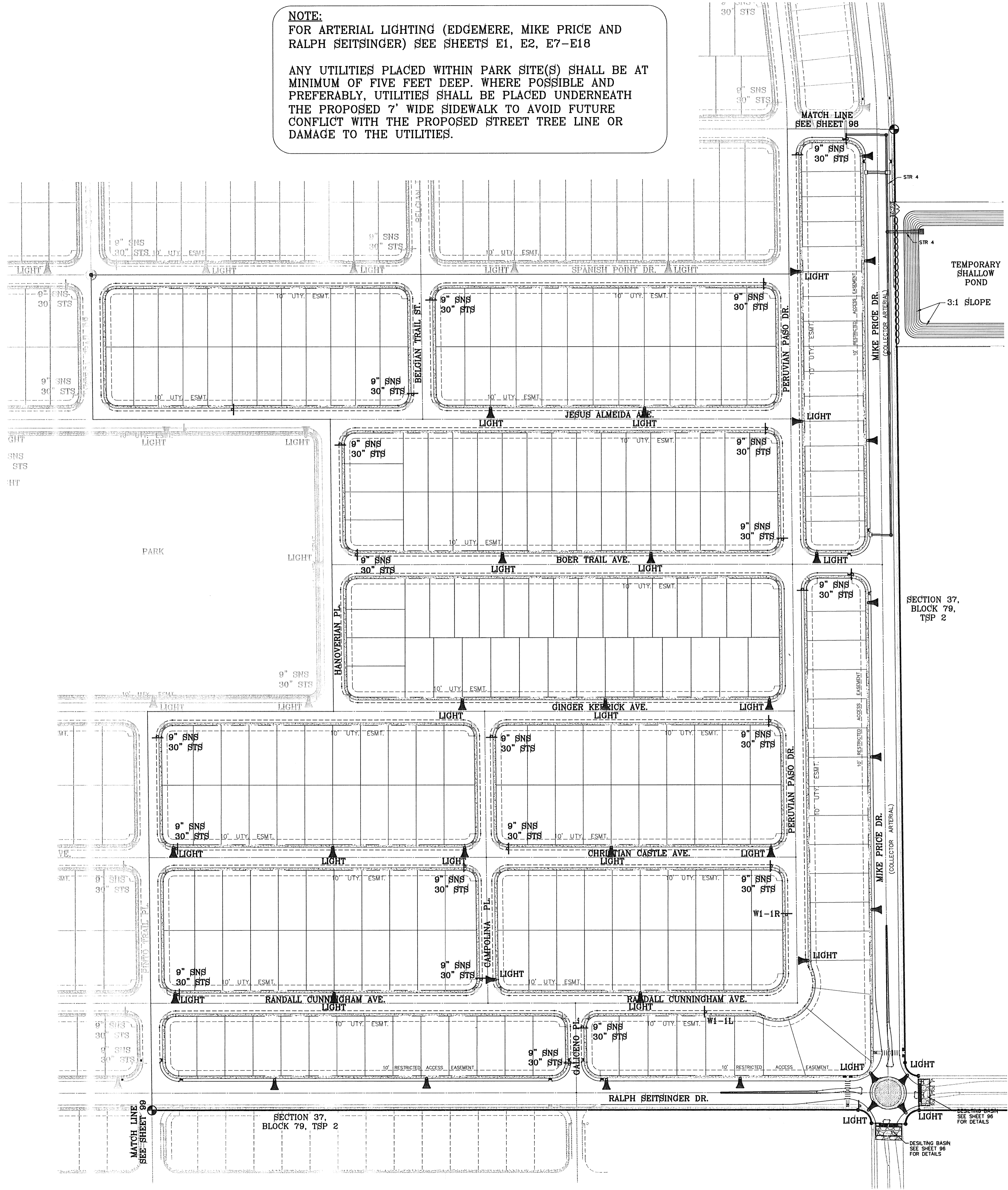
SHEET TITLE

**ILLUMINATION & TRAFFIC CONTROL PLAN**

S:\Subdivisions\TERRA DEL ESTE UNIT SIXTY SEVEN\GDP\_Ang\_ILUMS\_8/27/2012 10:30:39 AM

**NOTE:**  
 FOR ARTERIAL LIGHTING (EDGEMERE, MIKE PRICE AND RALPH SEITSINGER) SEE SHEETS E1, E2, E7-E18

ANY UTILITIES PLACED WITHIN PARK SITE(S) SHALL BE AT MINIMUM OF FIVE FEET DEEP. WHERE POSSIBLE AND PREFERABLY, UTILITIES SHALL BE PLACED UNDERNEATH THE PROPOSED 7' WIDE SIDEWALK TO AVOID FUTURE CONFLICT WITH THE PROPOSED STREET TREE LINE OR DAMAGE TO THE UTILITIES.

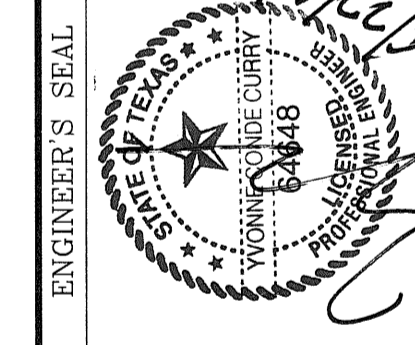


BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JORDY HAYES ST. AND SPANISH POINT DR.	ELEVATION 4017.47
DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
	O.M.
	O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, RANGE 10 EAST, RANGE 14 NORTH, COUNTY OF EL PASO, TEXAS  
 CITY OF EL PASO, TEXAS  
 CONTAINING: 166.254± ACRES

SCALE  
 HORIZ. 1" = 100'  
 VERT. ---  
 DATE: MAY 2012  
 DESIGN BY:  
 INITIATED BY: YC  
 CHECKED BY: YC  
 JOB NO.: 1110-18



**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6060 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

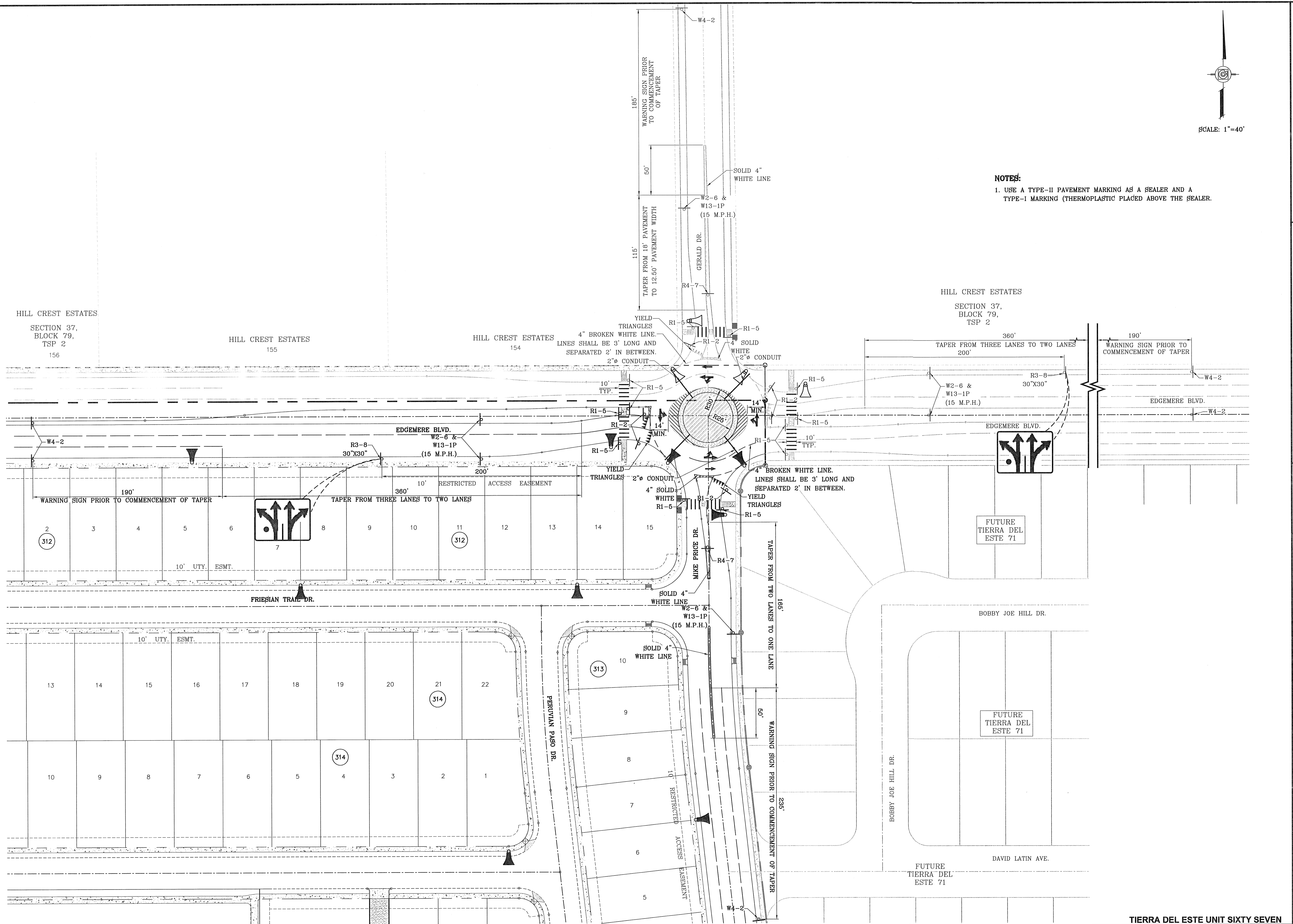


SHEET TITLE  
**ILLUMINATION & TRAFFIC CONTROL PLAN**

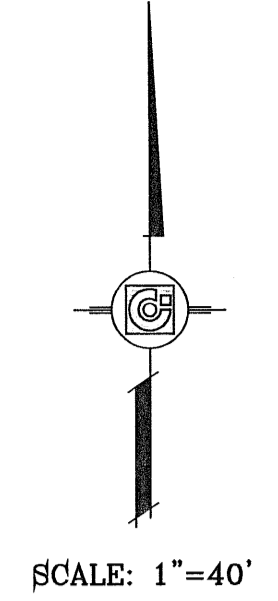
SHT 100 OF 112



FILE LOCATION s:\\_subdivisions\TDE 67 DWG\ROUNDABOUTS PLOTTED ON Thursday, August 23, 2012 9:19:34 AM BY OSCAR MEDINA



**NOTES:**  
1. USE A TYPE-II PAVEMENT MARKING AS A SEALER AND A TYPE-I MARKING (THERMOPLASTIC PLACED ABOVE THE SEALER).



BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES

BY: O.M.  
C.M.

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

SCALE  
HORIZ: 1" = 40'  
VERT: ---

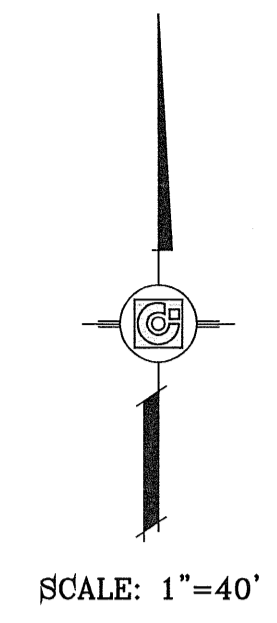
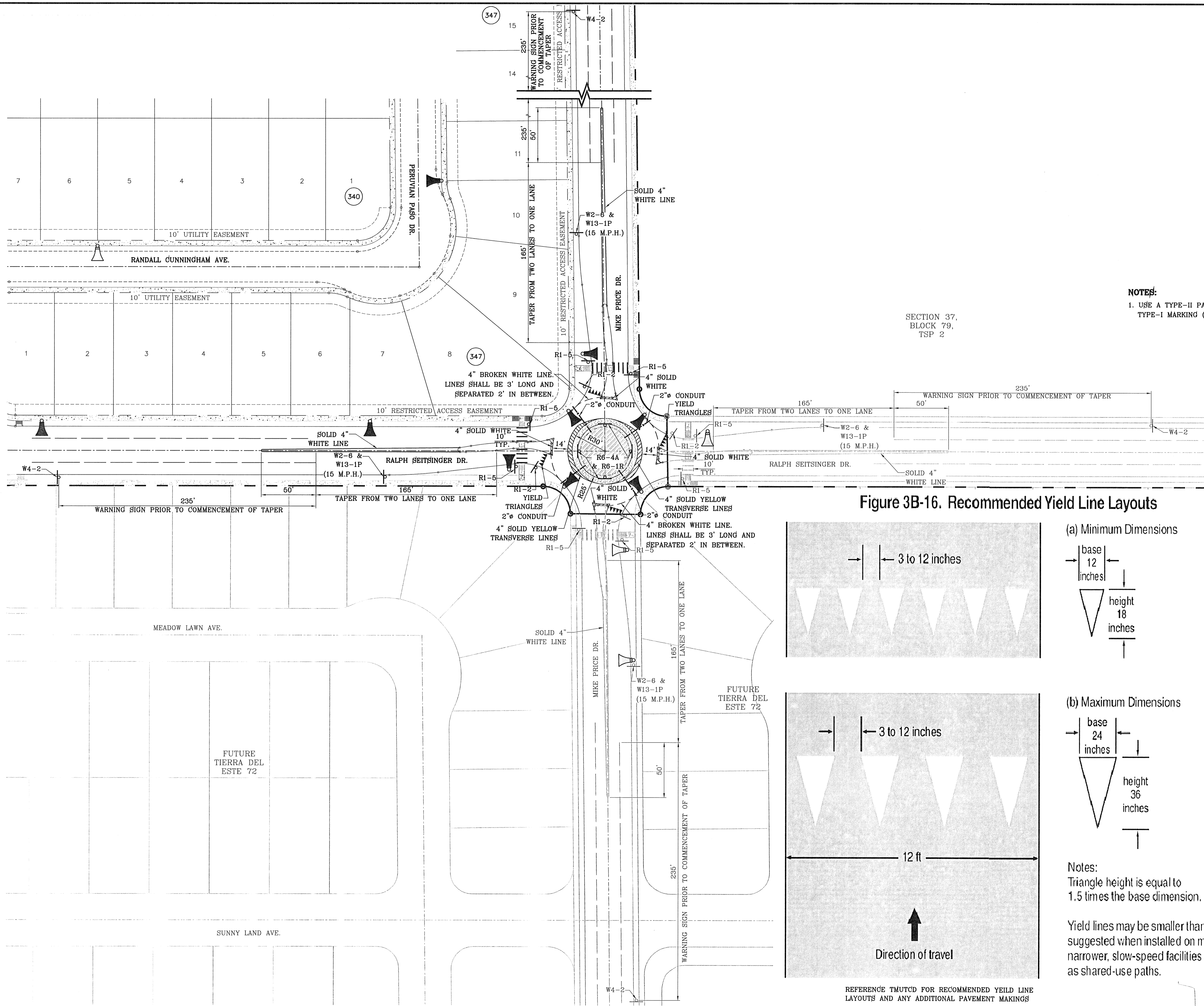
DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

ENGINEER'S SEAL

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

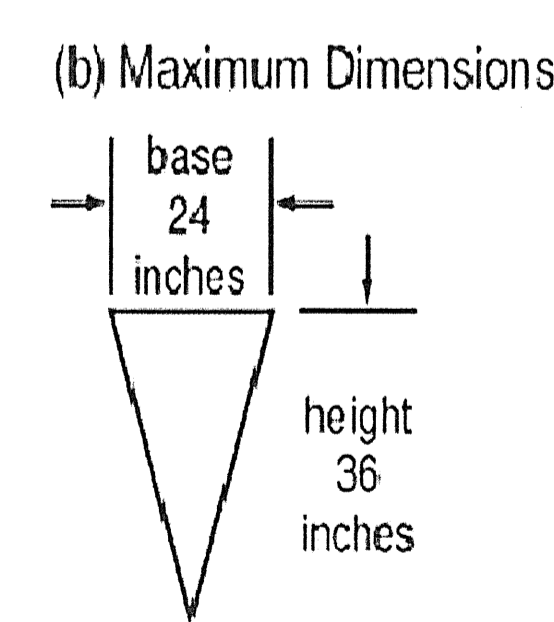
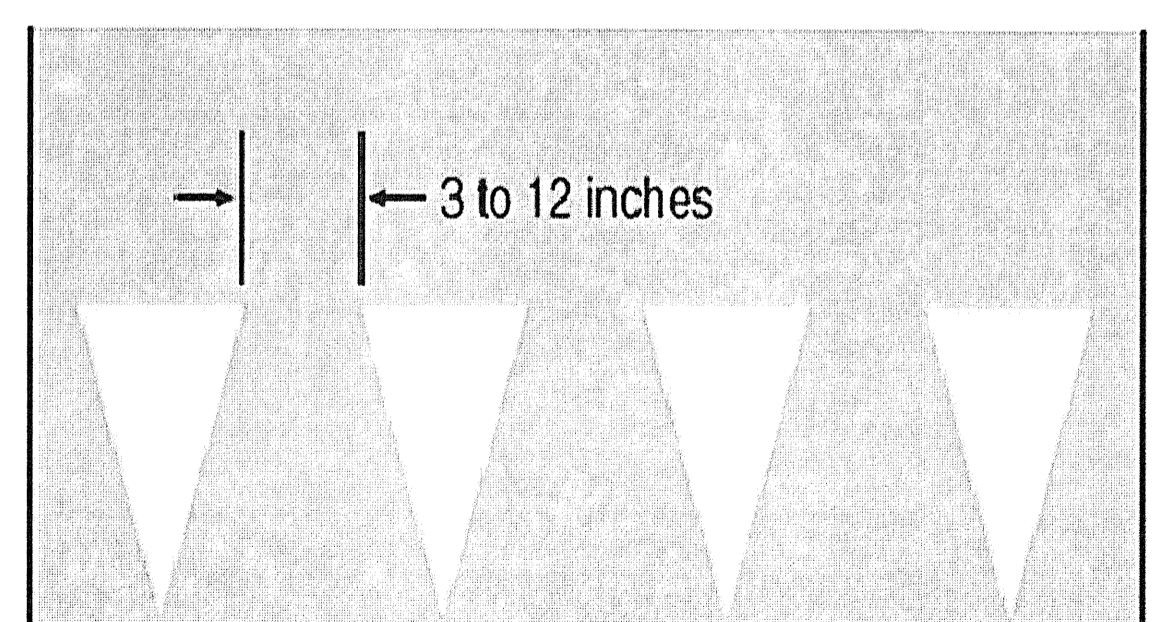
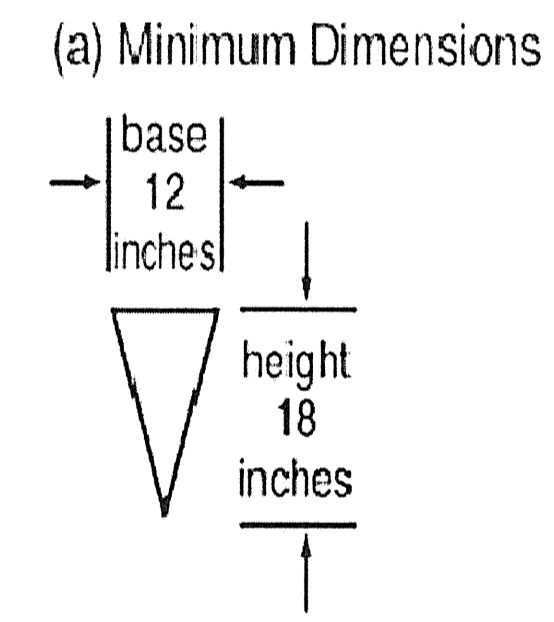
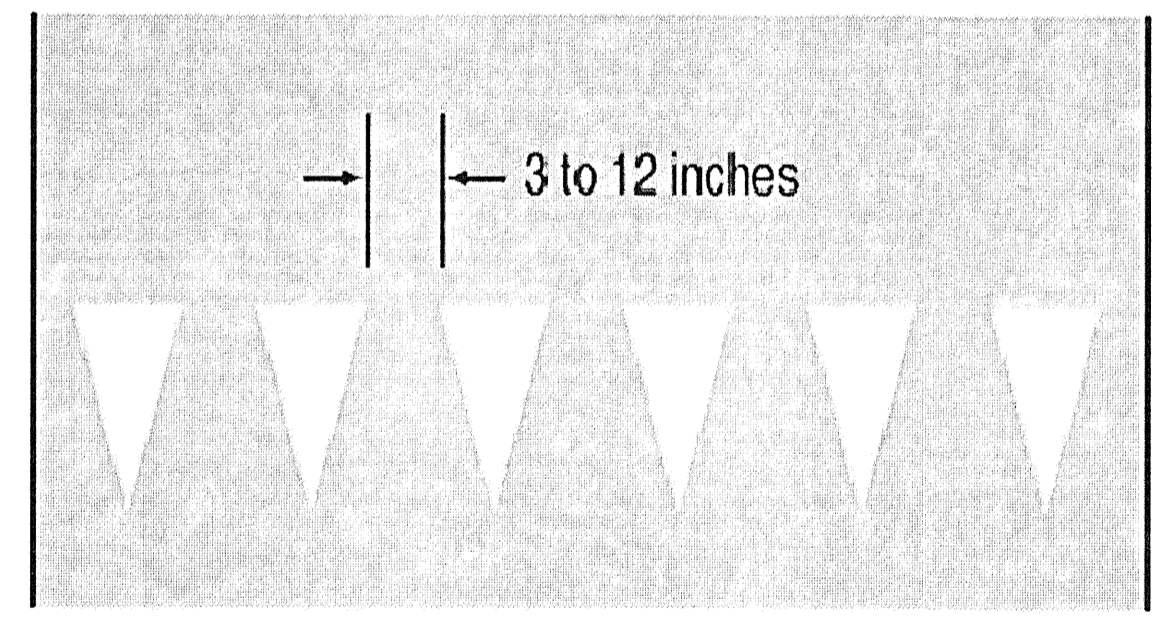


SHEET TITLE  
**ROUND-ABOUT TRAFFIC CONTROL PLAN-1**



**NOTES:**  
 1. USE A TYPE-II PAVEMENT MARKING AS A SEALER AND A TYPE-I MARKING (THERMOPLASTIC PLACED ABOVE THE SEALER).

**Figure 3B-16. Recommended Yield Line Layouts**



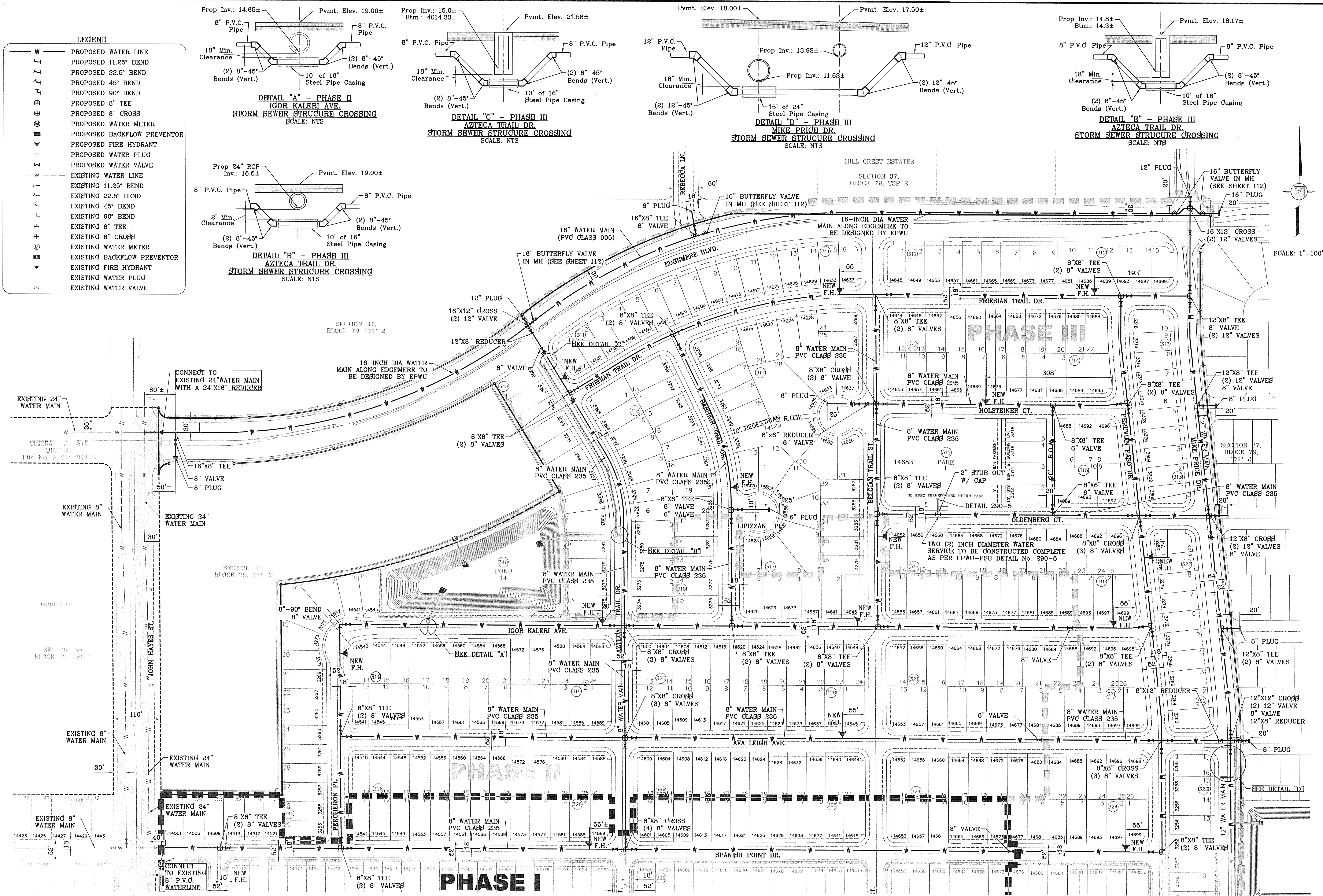
**Notes:**  
 Triangle height is equal to 1.5 times the base dimension.

Yield lines may be smaller than suggested when installed on much narrower, slow-speed facilities such as shared-use paths.

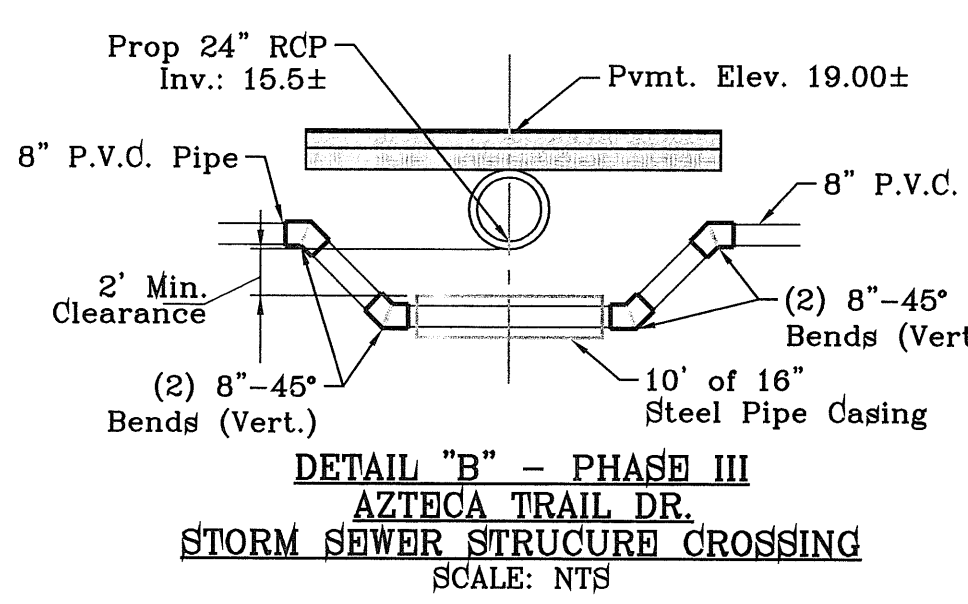
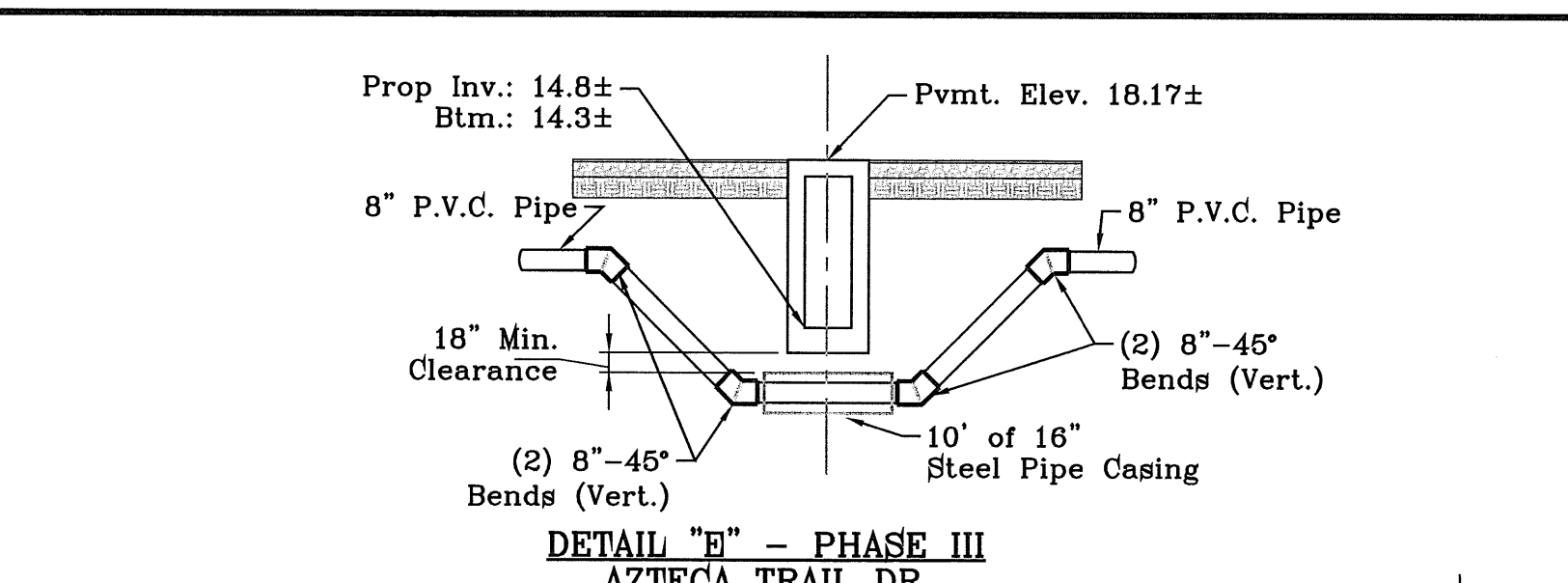
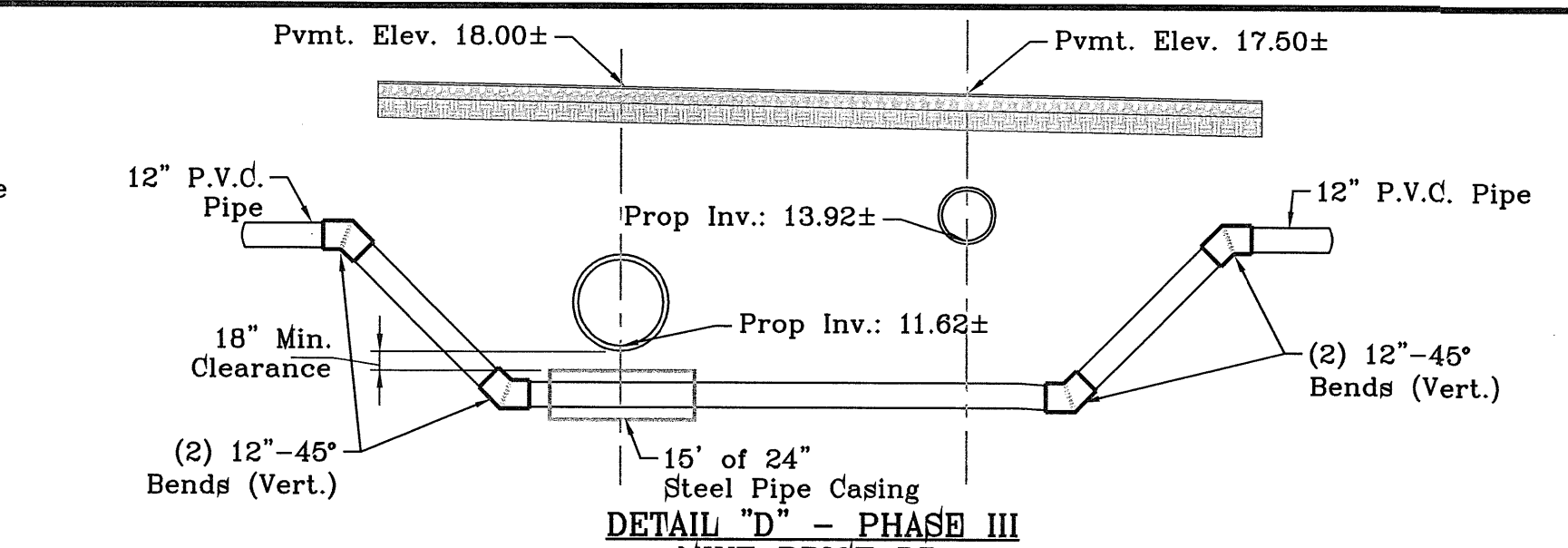
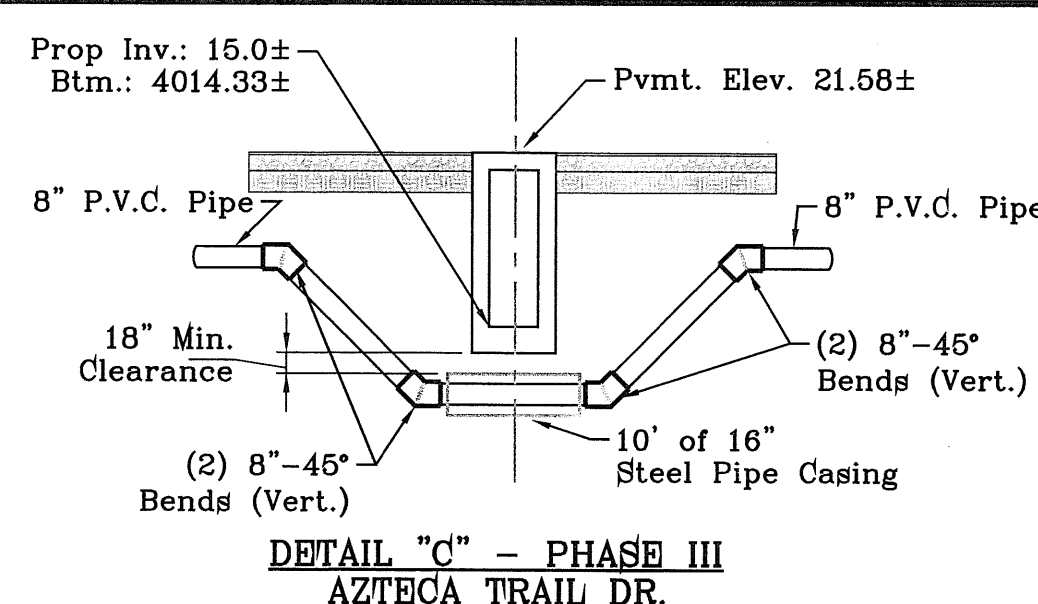
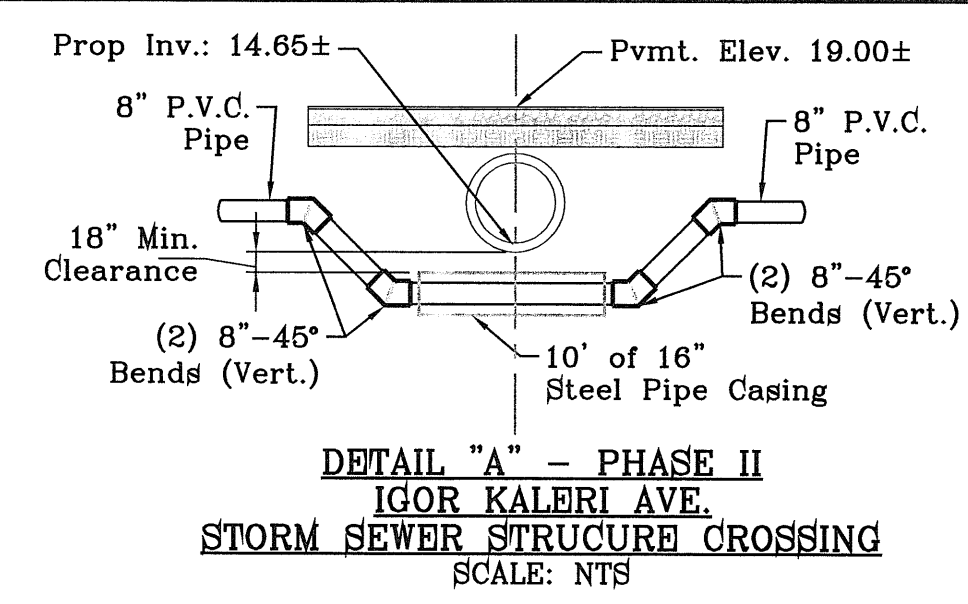
REFERENCE TMTCD FOR RECOMMENDED YIELD LINE LAYOUTS AND ANY ADDITIONAL PAVEMENT MARKINGS

PROJECT NAME <b>TIERRA DEL ESTE UNIT SIXTY SEVEN</b>	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47	
BENCHMARK NAVD83 DATUM	REVISIONS BY: O.M. DATE: 11/1/11 REVISIONS AS PER 10/19/11 REDLINES BY: O.M. DATE: 10/3/11 REVISIONS AS PER 8/24/11 REDLINES
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEY, CITY OF PASO, TEXAS CONTAINING: 166.254± ACRES	
SCALE HORIZ: 1" = 40' VERT: ---	JOB NO.: 1110-18
ENGINEER'S SEAL 	INITIATED BY: BFC/OM CHECKED BY: YC
CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURETY DR. SITE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286	SHEET TITLE <b>ROUND-ABOUT TRAFFIC CONTROL PLAN-2</b>
SHT 100B OF 112	

FILE LOCATION S:\Subdivisions\TDE 67 DWG\TDE67-WATER-REV PLOTTED ON Monday, August 27, 2012 8:26:27 AM BY CHARLIE MIRAMONTES



- LEGEND**
- PROPOSED WATER LINE
  - PROPOSED 11.25° BEND
  - PROPOSED 22.5° BEND
  - PROPOSED 45° BEND
  - PROPOSED 90° BEND
  - PROPOSED 8" TEE
  - PROPOSED 8" CROSS
  - PROPOSED WATER METER
  - PROPOSED BACKFLOW PREVENTOR
  - PROPOSED FIRE HYDRANT
  - PROPOSED WATER PLUG
  - PROPOSED WATER VALVE
  - EXISTING WATER LINE
  - EXISTING 11.25° BEND
  - EXISTING 22.5° BEND
  - EXISTING 45° BEND
  - EXISTING 90° BEND
  - EXISTING 8" TEE
  - EXISTING 8" CROSS
  - EXISTING WATER METER
  - EXISTING BACKFLOW PREVENTOR
  - EXISTING FIRE HYDRANT
  - EXISTING WATER PLUG
  - EXISTING WATER VALVE



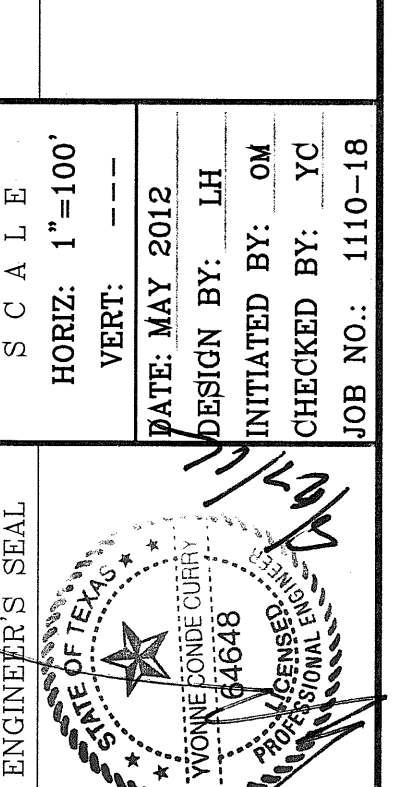
**REVISIONS**

DATE	REVISIONS	BY
10/3/11	REVISIONS AS PER 8/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.
03/12/12	REVISIONS AS PER 03/12/12	R.R.
04/02/12	ADDITION OF PHASE INFORMATION	R.R.

**PROJECT NAME**  
TIERRA DEL ESTE UNIT SIXTY SEVEN

**SCALE**  
HORIZ: 1"=100'  
VERT: 1"=10'

**DATE:** MAY 2012  
**DESIGN BY:** LH  
**INITIATED BY:** OM  
**CHECKED BY:** JC  
**JOB NO.:** 1110-18



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

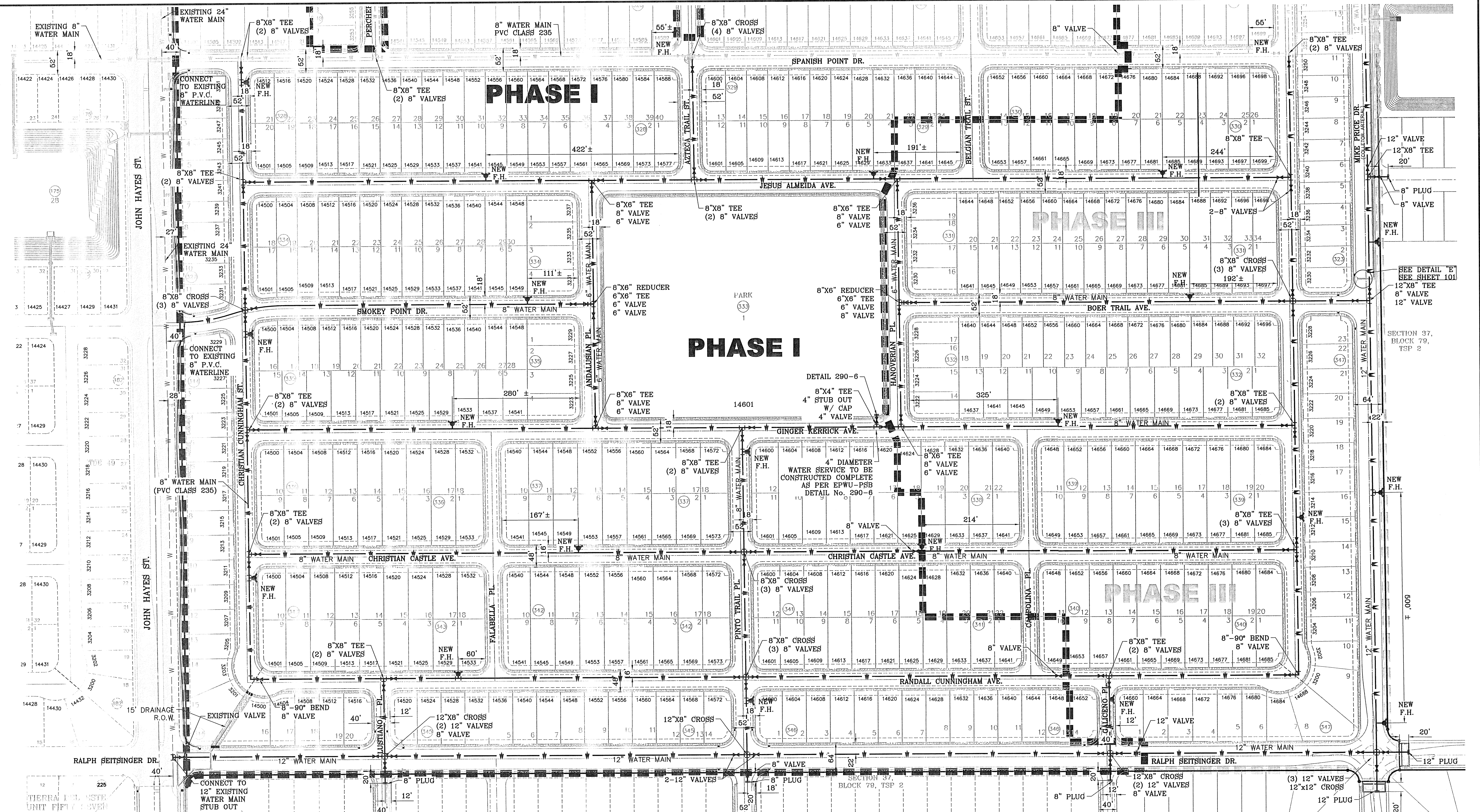
**CONDE INC.**  
REGISTRATION No. F-2321

**SHEET TITLE**  
WATER STANDARD PLAN

**SHT 101 OF 112**

SEE SHEET 111 & 112 FOR WATER STANDARD DETAILS

FILE LOCATION S:\Subdivisions\TDE 67.DWG WATER-REV PLOTTED ON Monday, August 27, 2012 8:26:23 AM BY CHARLIE MIRAMONTES



STREET NAMES	LENGTH, SIZE, TYPE OF PIPE, AND PHASE
AZTECA TRAIL DR.	INSTALL 308 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE I
SPANISH POINT DR.	INSTALL 2,050 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE I
CHRISTIAN CUNNINGHAM ST.	INSTALL 1,386 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE I
RANDALL CUNNINGHAM AVE.	INSTALL 1,876 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE I
JESUS ALMEIDA AVE.	INSTALL 1,429 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE I
SMOKEY POINT DR.	INSTALL 895 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE I
GINGER KERRICK AVE.	INSTALL 1,428 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE I
CHRISTIAN CASTLE AVE.	INSTALL 1,470 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE I
ANDALUSIAN PL.	INSTALL 646 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE I
PINTO TRAIL PL.	INSTALL 776 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE I
LUSTIANO PL.	INSTALL 294 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE I
RALPH SEITZINGER DR.	INSTALL 2,047 FEET OF 12" P.V.C. PIPE (CLASS 236) PHASE I

STREET NAMES	LENGTH, SIZE, TYPE OF PIPE, AND PHASE
AVA LEIGH AVE.	INSTALL 495 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
AZTECA TRAIL DR.	INSTALL 775 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
AZTECA TRAIL DR.	INSTALL 90 FEET OF 12" P.V.C. PIPE (CLASS 236) PHASE III
BELGIAN TRAIL ST.	INSTALL 539 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
MIKE PRICE DR.	INSTALL 3,716 FEET OF 12" P.V.C. PIPE (CLASS 236) PHASE III
RESIAN TRAIL DR.	INSTALL 1,566 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
BASHIR TRAIL DR.	INSTALL 481 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
MOZCAN CT.	INSTALL 90 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
HOLTSINGER CT.	INSTALL 490 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
HOLTSINGER CT.	INSTALL 100 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
20' R.O.W.	INSTALL 238 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
OLDENBERG CT.	INSTALL 956 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
RANDALL CUNNINGHAM AVE.	INSTALL 609 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
BERNARD PASO DR.	INSTALL 2,780 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
JESUS ALMEIDA AVE.	INSTALL 985 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
GINGER KERRICK AVE.	INSTALL 895 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
CHRISTIAN CASTLE AVE.	INSTALL 820 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
RALPH SEITZINGER DR.	INSTALL 673 FEET OF 12" P.V.C. PIPE (CLASS 236) PHASE III
HANOVERIAN PL.	INSTALL 645 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
BOER TRAIL AVE.	INSTALL 1,030 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
GALCERON PL.	INSTALL 160 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
(1) STUDENTS EAST OF MIKE PRICE	INSTALL 120 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III

STREET NAMES	LENGTH, SIZE, TYPE OF PIPE, AND PHASE
SPANISH POINT DR.	INSTALL 350 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III
IGOR KALERI AVE.	INSTALL 180 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE III

- WATER NOTES:**
- CONTACT UTILITY COMPANIES FOR EXACT LOCATION OF UNDERGROUND UTILITIES IN THIS AREA, BEFORE EXCAVATING.
  - INSTALL A TRENCH SAFETY SYSTEM TO PROVIDE FOR THE SAFE EXCAVATION OF ALL TRENCHES EXCEEDING A DEPTH OF (5') FIVE 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. SEE DETAIL ON SHEET 111.
  - P.V.C. PIPE SHALL BE PLACED WITH SELECT BEDDING MATERIAL ALL AROUND.
  - CITY PAVING CUT PERMIT REQUIRED BEFORE EXCAVATION.

**LEGEND**

---	EXISTING WATER LINE
~	EXISTING 11.25° BEND
∩	EXISTING 22.5° BEND
∪	EXISTING 45° BEND
⊥	EXISTING 90° BEND
⊥	EXISTING 8" TEE
⊥	EXISTING 8" CROSS
⊙	EXISTING WATER METER
⊙	EXISTING BACKFLOW PREVENTOR
⊙	EXISTING FIRE HYDRANT
⊙	EXISTING WATER PLUG
⊙	EXISTING WATER VALVE

**LEGEND**

---	PROPOSED WATER LINE
~	PROPOSED 11.25° BEND
∩	PROPOSED 22.5° BEND
∪	PROPOSED 45° BEND
⊥	PROPOSED 90° BEND
⊥	PROPOSED 8" TEE
⊥	PROPOSED 8" CROSS
⊙	PROPOSED WATER METER
⊙	PROPOSED BACKFLOW PREVENTOR
⊙	PROPOSED FIRE HYDRANT
⊙	PROPOSED WATER PLUG
⊙	PROPOSED WATER VALVE

SEE SHEET 111 & 112 FOR WATER DETAILS

STREET NAME	LENGTH, SIZE, TYPE OF PIPE, AND PHASE
PERCHER DR.	INSTALL 645 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE II
IGOR KALERI AVE.	INSTALL 1,800 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE II
AVA LEIGH AVE.	INSTALL 1,906 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE II
AZTECA TRAIL DR.	INSTALL 697 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE II
BELGIAN TRAIL ST.	INSTALL 271 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE II
BASHIR TRAIL DR.	INSTALL 274 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE II

STREET NAMES	LENGTH, SIZE, TYPE OF PIPE, AND PHASE
ANDALUSIAN PL.	INSTALL 646 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE II
PINTO TRAIL PL.	INSTALL 776 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE II
LUSTIANO PL.	INSTALL 294 FEET OF 8" P.V.C. PIPE (CLASS 236) PHASE II
RALPH SEITZINGER DR.	INSTALL 2,047 FEET OF 12" P.V.C. PIPE (CLASS 236) PHASE II

**REVISIONS**

DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
03/12/12	REVISIONS AS PER 03/12/12
04/02/12	ADDITION OF PHASE INFORMATION

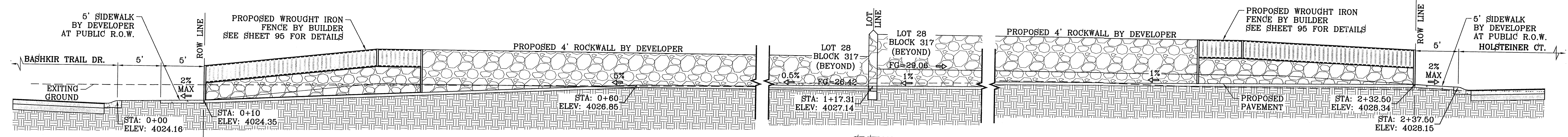
**TERRA DEL ESTE UNIT SIXTY SEVEN**

SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

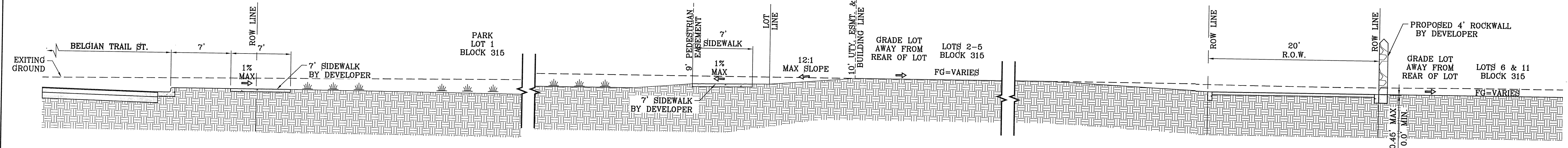
**CONDE INC.**  
ENGINEERING / PLANNING / SURVEYING / GPS  
6080 SURVEY DR. STE. 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**CONDE INC.**  
REGISTRATION NO. F-2321

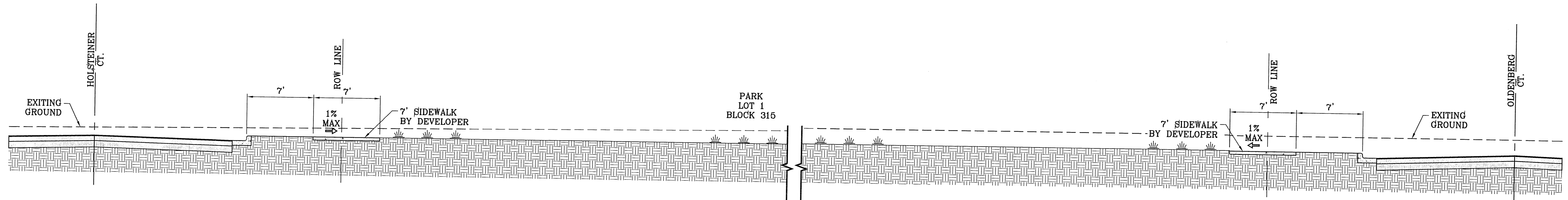
**WATER DISTRIBUTION PLAN**



**SECTION H**  
10' PEDESTRIAN R.O.W.  
SCALE: 1"=6'



**SECTION I**  
SCALE: 1"=6'



**SECTION J**  
SCALE: 1"=6'

BENCHMARK

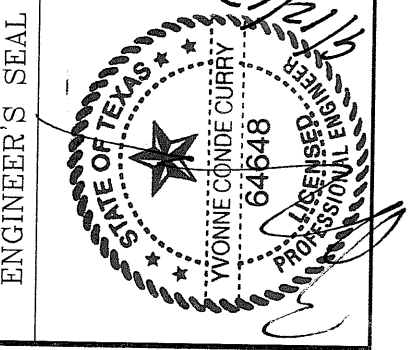
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47
DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/17/11	REVISIONS AS PER 10/19/11 REDLINES
	O.M.
	O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS, CONTAINING: 186.264± ACRES

SCALE  
HORIZ: AS NOTED  
VERT: ---

DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: BFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18



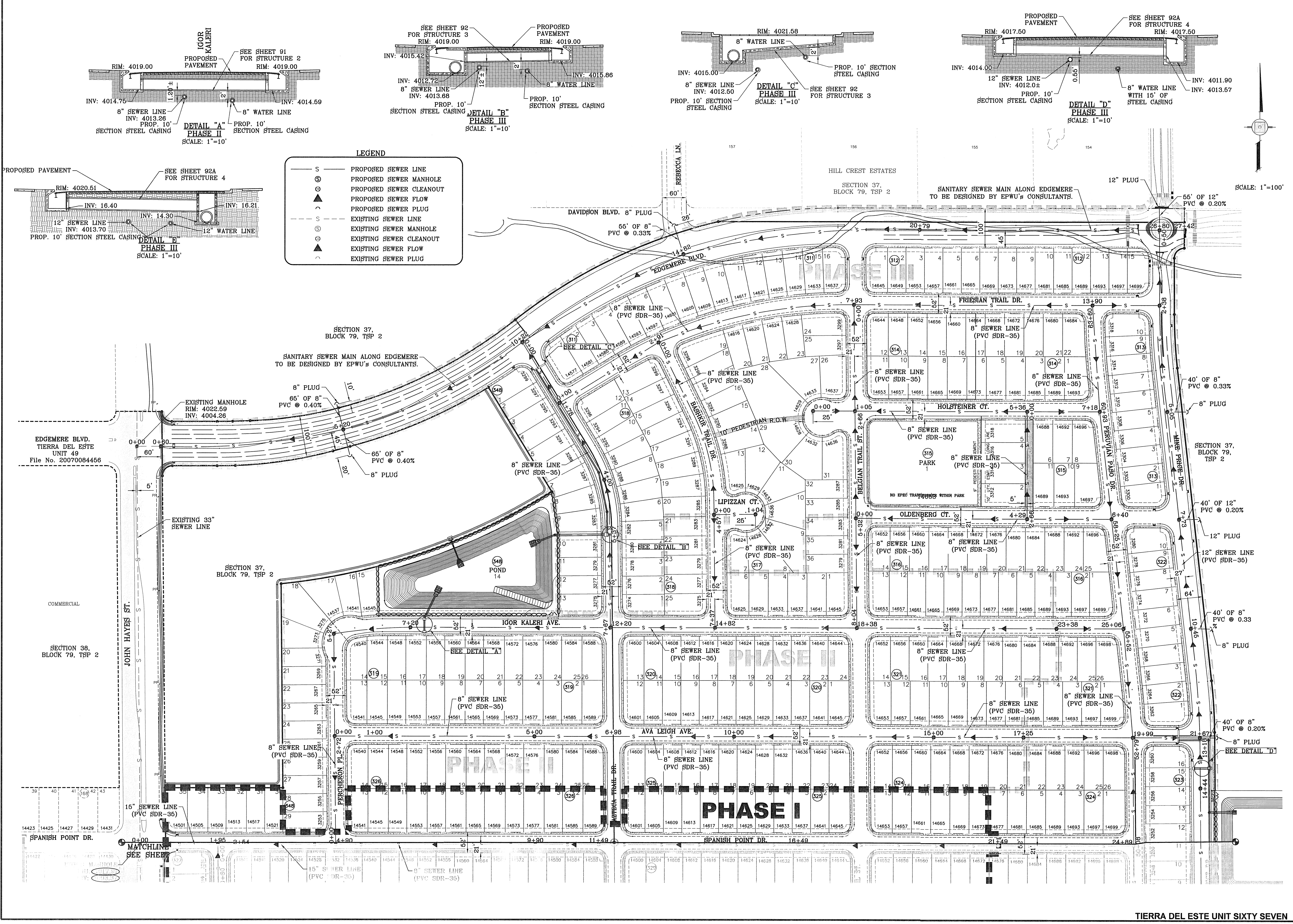
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6030 SURETTY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



SHEET TITLE

**GRADING SECTIONS**

FILE LOCATION: S:\subdivisions\TDE 67.DWG\TDE67-SEWER PLOTTED ON Thursday, August 23, 2012 9:20:25 AM BY OSCAR MEDINA



**LEGEND**

— S —	PROPOSED SEWER LINE
⊙	PROPOSED SEWER MANHOLE
⊙	PROPOSED SEWER CLEANOUT
▲	PROPOSED SEWER FLOW
⊙	PROPOSED SEWER PLUG
- - -	EXISTING SEWER LINE
⊙	EXISTING SEWER MANHOLE
⊙	EXISTING SEWER CLEANOUT
▲	EXISTING SEWER FLOW
⊙	EXISTING SEWER PLUG

**PROJECT NAME**  
TIERRA DEL ESTE UNIT SIXTY SEVEN

**SCALE**  
HORIZ: 1"=100'  
VERT: 1"=10'

**DATE**  
MAY 2012

**DESIGN BY**  
LH

**INITIATED BY**  
OM

**CHECKED BY**  
YC

**JOB NO.**  
1110-18

**ENGINEER'S SEAL**  
CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**REVISIONS**

DATE	REVISIONS
10/9/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
04/02/12	ADDITION OF PHASE INFORMATION

**CITY MOVEMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT DR. NAVD83 DATUM**  
ELEVATION 4017.47

**CONDE INC.**  
REGISTRATION NO. F-231

**SHEET TITLE**  
SEWER DISTRIBUTION PLAN

**SHT 103 OF 112**

**BENCHMARK**  
CITY MOVEMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT DR. NAVD83 DATUM  
ELEVATION 4017.47

**REVISIONS**

DATE	REVISIONS
10/9/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
04/02/12	ADDITION OF PHASE INFORMATION

**PROJECT NAME**  
TIERRA DEL ESTE UNIT SIXTY SEVEN

**SCALE**  
HORIZ: 1"=100'  
VERT: 1"=10'

**DATE**  
MAY 2012

**DESIGN BY**  
LH

**INITIATED BY**  
OM

**CHECKED BY**  
YC

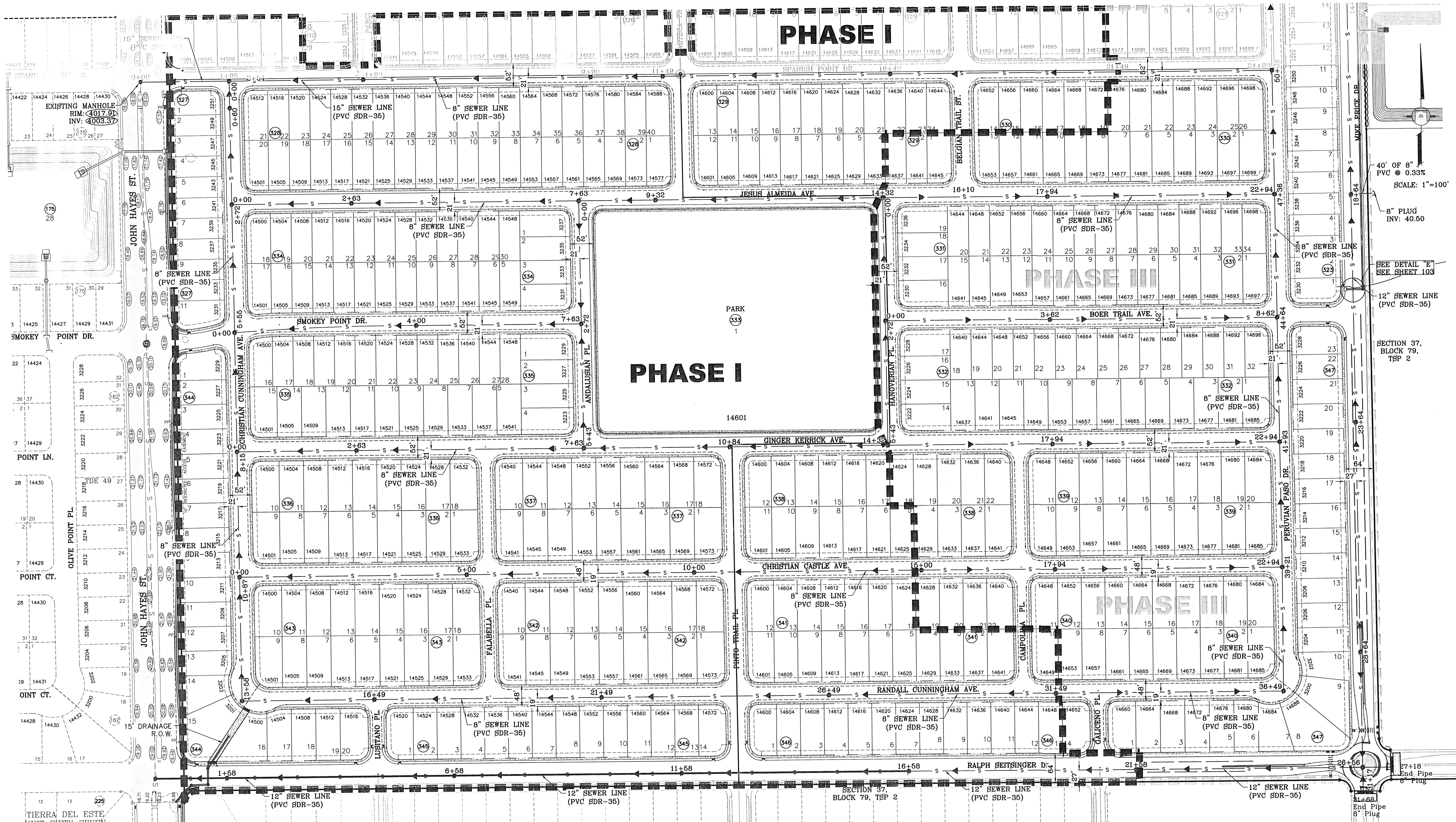
**JOB NO.**  
1110-18

**ENGINEER'S SEAL**  
CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**CONDE INC.**  
REGISTRATION NO. F-231

**SHEET TITLE**  
SEWER DISTRIBUTION PLAN

**SHT 103 OF 112**



EXISTING MANHOLE  
RIM: 4017.93  
INV: 4003.37

# PHASE I

# PHASE III

# PHASE I

# PHASE III

**SEWER NOTES:**

1. CONTACT UTILITY COMPANIES FOR EXACT LOCATION OF UNDERGROUND UTILITIES IN THIS AREA, BEFORE EXCAVATING.
2. INSTALL A TRENCH SAFETY SYSTEM TO PROVIDE FOR THE SAFE EXCAVATION OF ALL TRENCHES EXCEEDING A DEPTH OF (6') FIVE FEET AS PER O.S.H.A. STANDARDS.
3. PROVIDE MANHOLE ADAPTER WHERE P.V.C. PIPE CONNECTS TO MANHOLE.
4. ALL P.V.C. PIPE ON THIS PLAN SHALL BE PLACED WITH SELECT BEDDING MATERIAL ALL AROUND.
5. WATER & SEWER MAIN SEPARATION REQUIREMENTS SHALL COMPLY WITH "T.N.R.C.C." MINIMUM VERTICAL SEPARATION REQUIREMENTS. (REFER TO SPECIFICATIONS)

**LEGEND**

— S —	PROPOSED SEWER LINE
⊙	PROPOSED SEWER MANHOLE
⊙	PROPOSED SEWER CLEANOUT
▲	PROPOSED SEWER FLOW
~	PROPOSED SEWER PLUG
- - - S - - -	EXISTING SEWER LINE
⊙	EXISTING SEWER MANHOLE
⊙	EXISTING SEWER CLEANOUT
▲	EXISTING SEWER FLOW
~	EXISTING SEWER PLUG

40' OF 8" PVC @ 0.33%  
SCALE: 1"=100'

8" PLUG  
INV: 40.60

SEE DETAIL 'E'  
SEE SHEET 103

12" SEWER LINE  
(PVC SDR-35)

SECTION 37,  
BLOCK 79,  
TSP 2

**REVISIONS**

DATE	REVISIONS	BY
10/29/11	REVISIONS AS PER 8/24/11 REDLINES	O.M.
11/17/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.
04/02/12	ADDITION OF PHASE INFORMATION	R.R.

**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.2544 ACRES

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

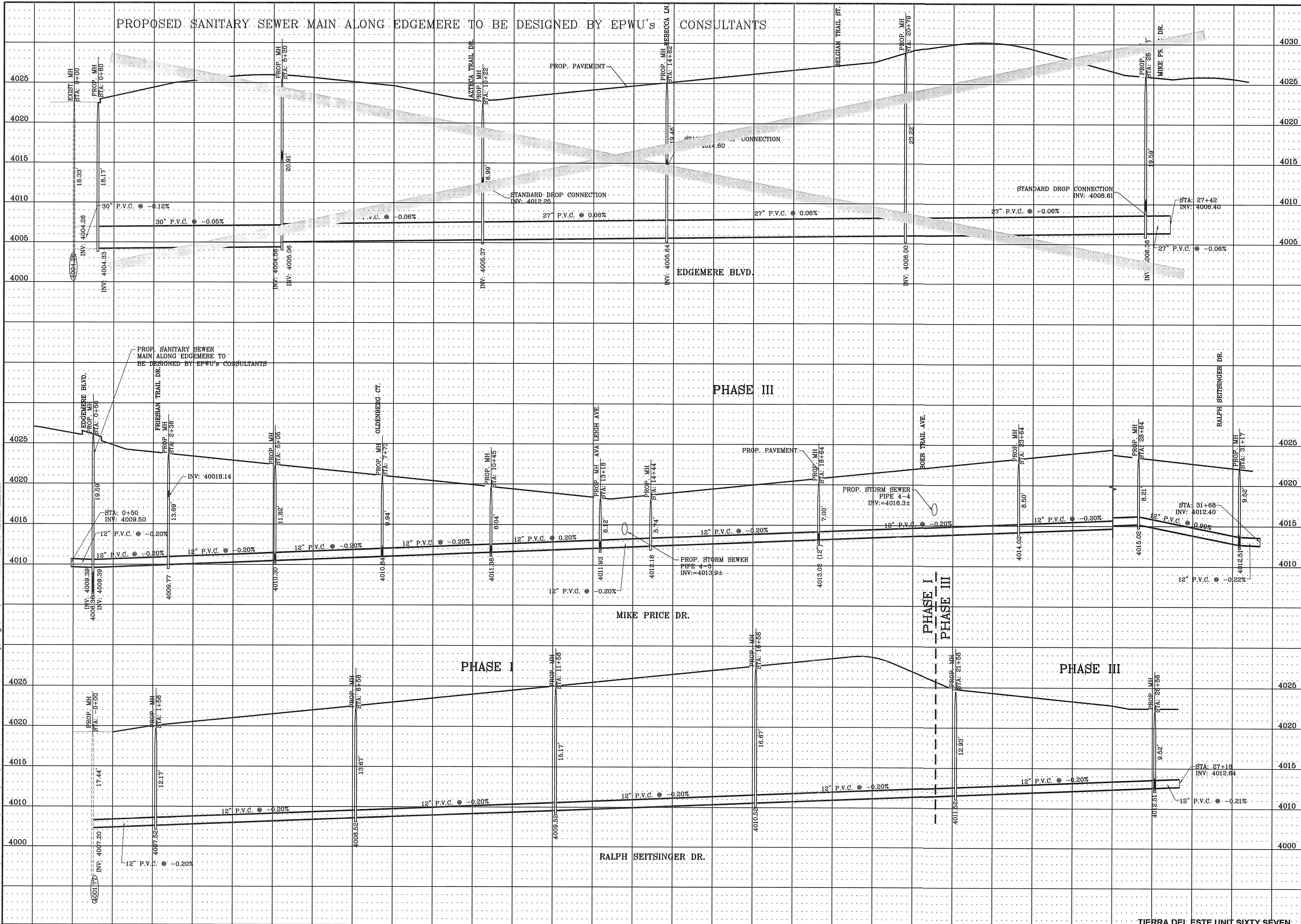
DATE: MAY 2012  
DESIGN BY: LH  
INITIATED BY: OM  
CHECKED BY: YC  
JOB NO.: 1110-1B

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**CONDE INC.**  
REGISTRATION No. P-3231

**SEWER DISTRIBUTION PLAN**

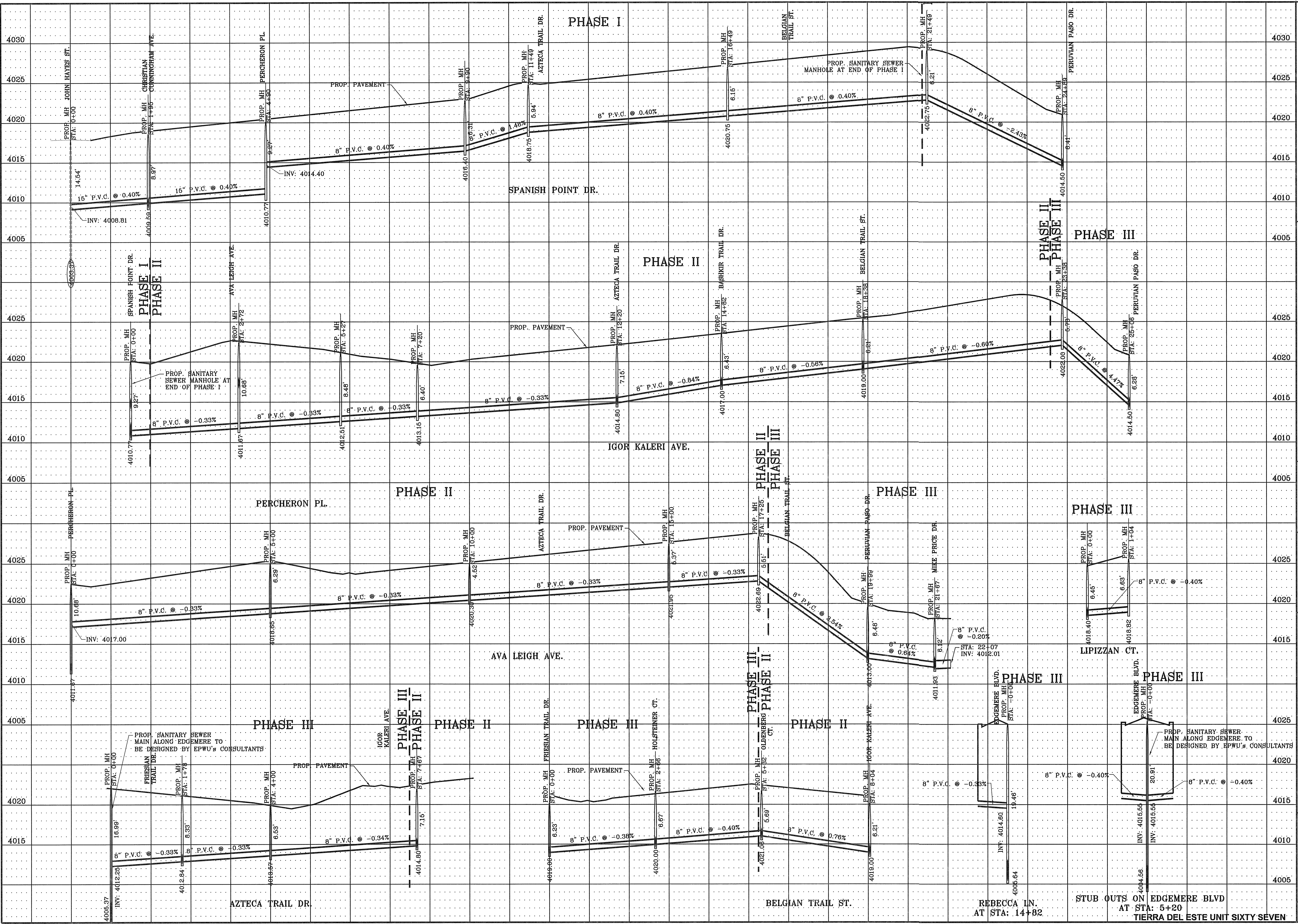
FILE LOCATION S:\Subdivisions\YDE 67\DWG\YDE67-SEWER PLOTTED ON Thursday, August 23, 2012 9:21:18 AM BY OSCAR MEDINA



<p>ENGINEER'S SEAL</p>		<p>DATE: MAY 2012          DESIGN BY: LH          INITIATED BY: OM          CHECKED BY: YC          JOB NO.: 1110-18</p>								
<p>CONDE INC.          ENGINEERING / PLANNING          SURVEYING / GPS          6080 SURETY DR. STE 100          EL PASO, TEXAS 79905          PHONE: (915) 592-0283          FAX: (915) 592-0286</p>		<p>PROJECT NAME  <b>TERRA DEL ESTE UNIT SIXTY SEVEN</b></p>								
<p>CITY MOMENTUM AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47</p>		<p>REVISIONS</p> <table border="1"> <tr> <th>DATE</th> <th>REVISIONS</th> </tr> <tr> <td>10/2/11</td> <td>REVISIONS AS PER 8/24/11 REDLINES</td> </tr> <tr> <td>11/1/11</td> <td>REVISIONS AS PER 10/19/11 REDLINES</td> </tr> <tr> <td>04/02/12</td> <td>ADDITION OF PHASE INFORMATION</td> </tr> </table>	DATE	REVISIONS	10/2/11	REVISIONS AS PER 8/24/11 REDLINES	11/1/11	REVISIONS AS PER 10/19/11 REDLINES	04/02/12	ADDITION OF PHASE INFORMATION
DATE	REVISIONS									
10/2/11	REVISIONS AS PER 8/24/11 REDLINES									
11/1/11	REVISIONS AS PER 10/19/11 REDLINES									
04/02/12	ADDITION OF PHASE INFORMATION									
<p>SCALE          HORIZ: 1"=100'          VERT: 1"=5'</p>		<p>BENCHMARK          CITY MOMENTUM AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47</p>								
<p>SHEET TITLE  <b>SANITARY SEWER PROFILES</b></p>		<p>BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES</p>								
<p>PHASE I          PHASE II          PHASE III</p>		<p>TERRA DEL ESTE UNIT SIXTY SEVEN</p>								



FILE LOCATION S:\Subdivisions\TDE 67.DWG\TDE67-SEWER PLOTTED ON Thursday, August 23, 2012 9:21:35 AM BY OSCAR MEDINA



**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS  
CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 166.264± ACRES

SHEET TITLE  
**SANITARY SEWER PROFILES**

SHT 106 OF 112

---

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.  
ELEVATION 4017.47

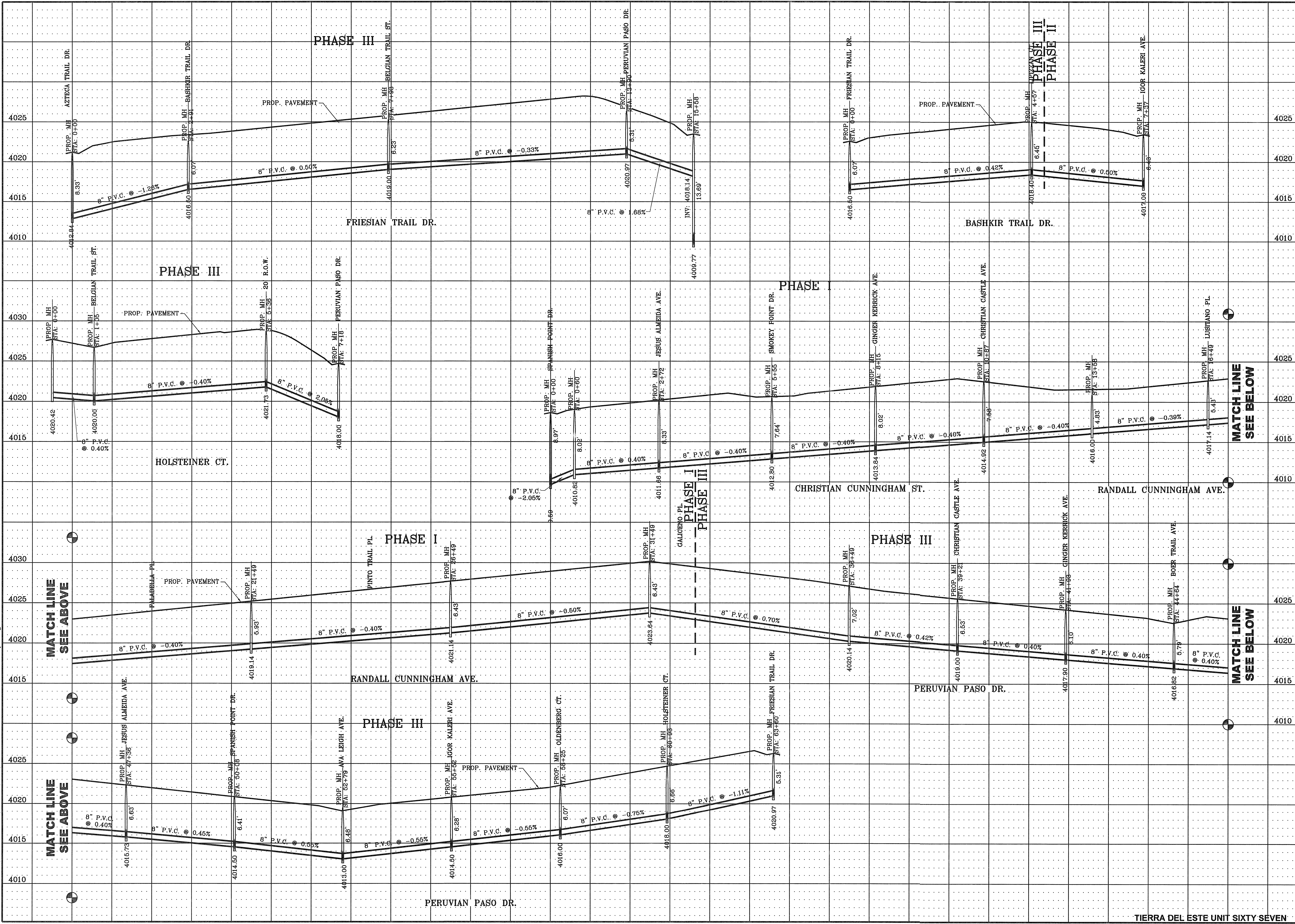
DATE	REVISIONS	BY
10/3/11	REVISIONS AS PER 8/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.
04/02/12	ADDITION OF PHASE INFORMATION	R.R.

---

ENGINEER'S SEAL

CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

HORIZ: 1"=100'  
VERT: 1"=6'  
DATE: MAY 2012  
DESIGN BY: LH  
INITIATED BY: OM  
CHECKED BY: YC  
JOB NO.: 1110-18



CITY MONUMENT AT THE CENTERLINE INTERSECTION OF	
JOHN HAYES ST. AND SPANISH POINT DR.	BENCHMARK
ELEVATION 4017.47	
DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
04/02/12	ADDITION OF PHASE INFORMATION
BY	O.M.
	O.M.
	R.R.

**TERRA DEL ESTE UNIT SIXTY SEVEN**

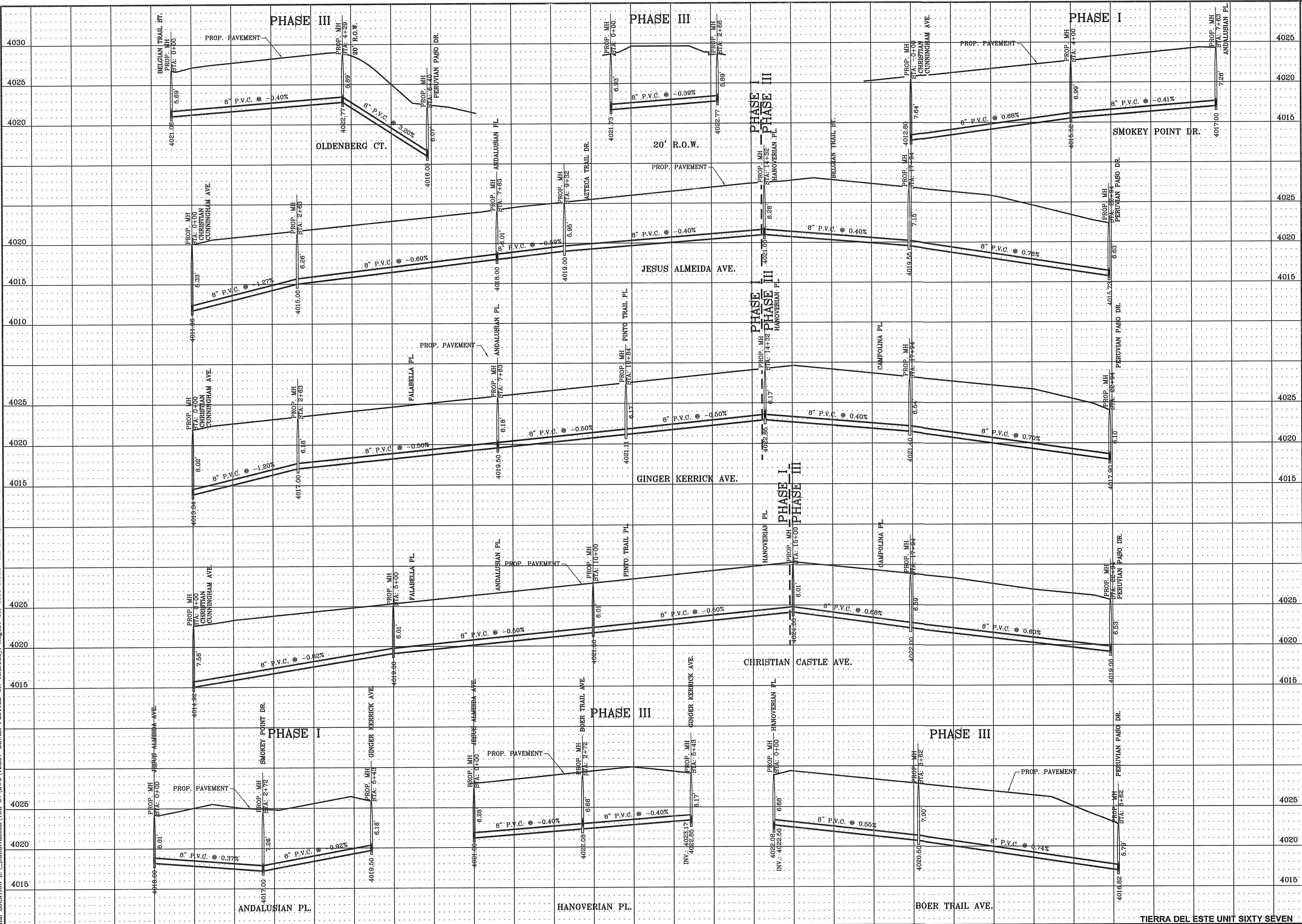
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TARRANT AND PROFFER PLATS, COUNTY OF EL PASO, TEXAS CITY OF EL PASO, EL PASO COUNTY TEXAS CONTAINING: 166.264± ACRES

PROJECT NAME	TERRA DEL ESTE UNIT SIXTY SEVEN
SCALE	HORIZ: 1"=100' VERT: 1"=5'
DATE	MAY 2012
DESIGN BY	LH
INITIATED BY	OM
CHECKED BY	YC
JOB NO.	1110-18

ENGINEER'S SEAL

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

FILE LOCATION S:\Subdivisions\TDE 67 DWG\TDE67-SEWER PLOTTED ON Thursday, August 23, 2012 9:22:17 AM BY OSCAR MEDINA



CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47	
DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
04/02/12	ADDITION OF PHASE INFORMATION
BY	O.M.
	R.R.

**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 75, TOWNSHIP 2, RANGE 16, PERMITS R.F.W. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

SCALE  
 HORIZ: 1"=100'  
 VERT: 1"=6'

DATE: MAY 2012  
 DESIGN BY: LH  
 INITIATED BY: OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

ENGINEER'S SEAL

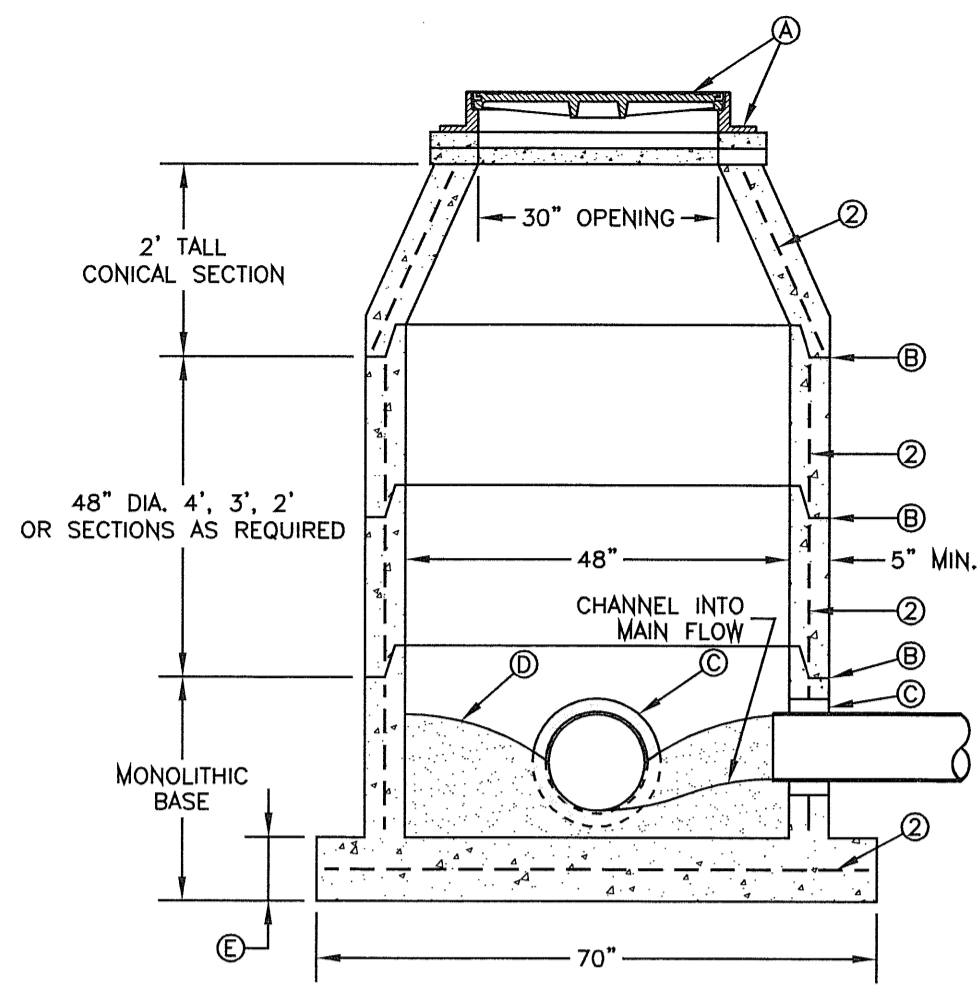
**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0293  
 FAX: (915) 592-0268

SHEET TITLE  
**SANITARY SEWER PROFILES**

SHT 108 OF 112



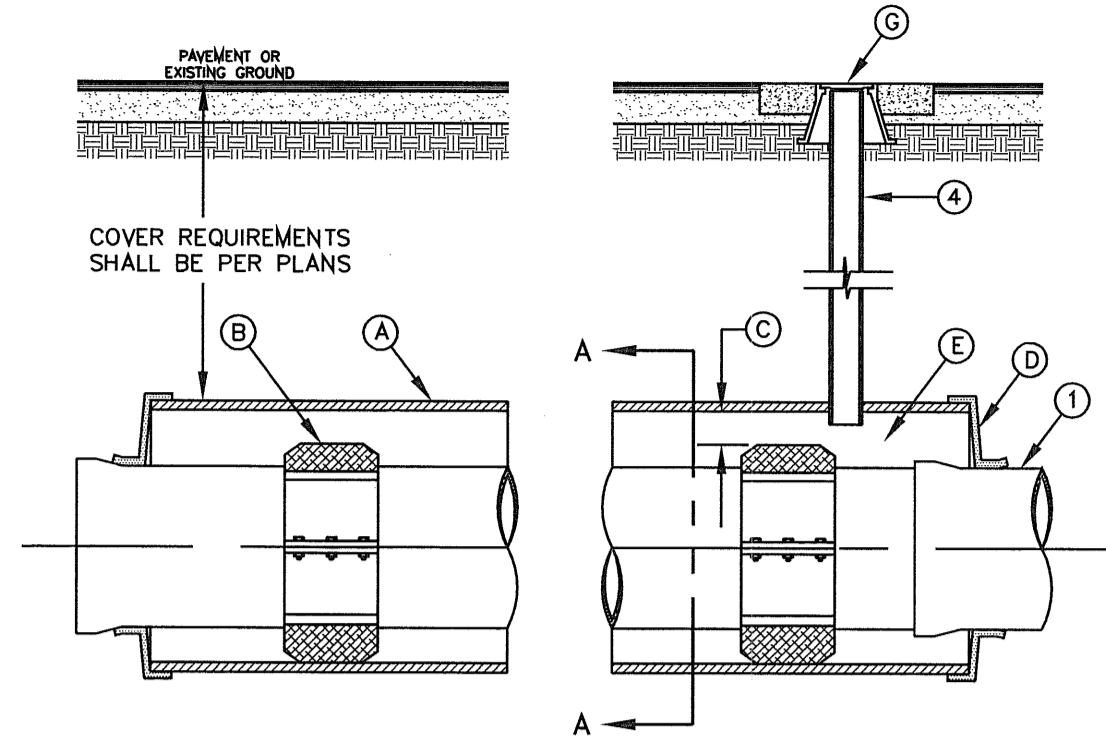
FILE LOCATION S:\Subdivisions\TDE 67\DWG\TDE67-W&S NOTES AND DETAILS PLOTTED ON Thursday, August 23, 2012 9:22:27 AM BY OSCAR MEDINA



MANHOLE TYPE "A"  
N.T.S.  
**370-1**

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

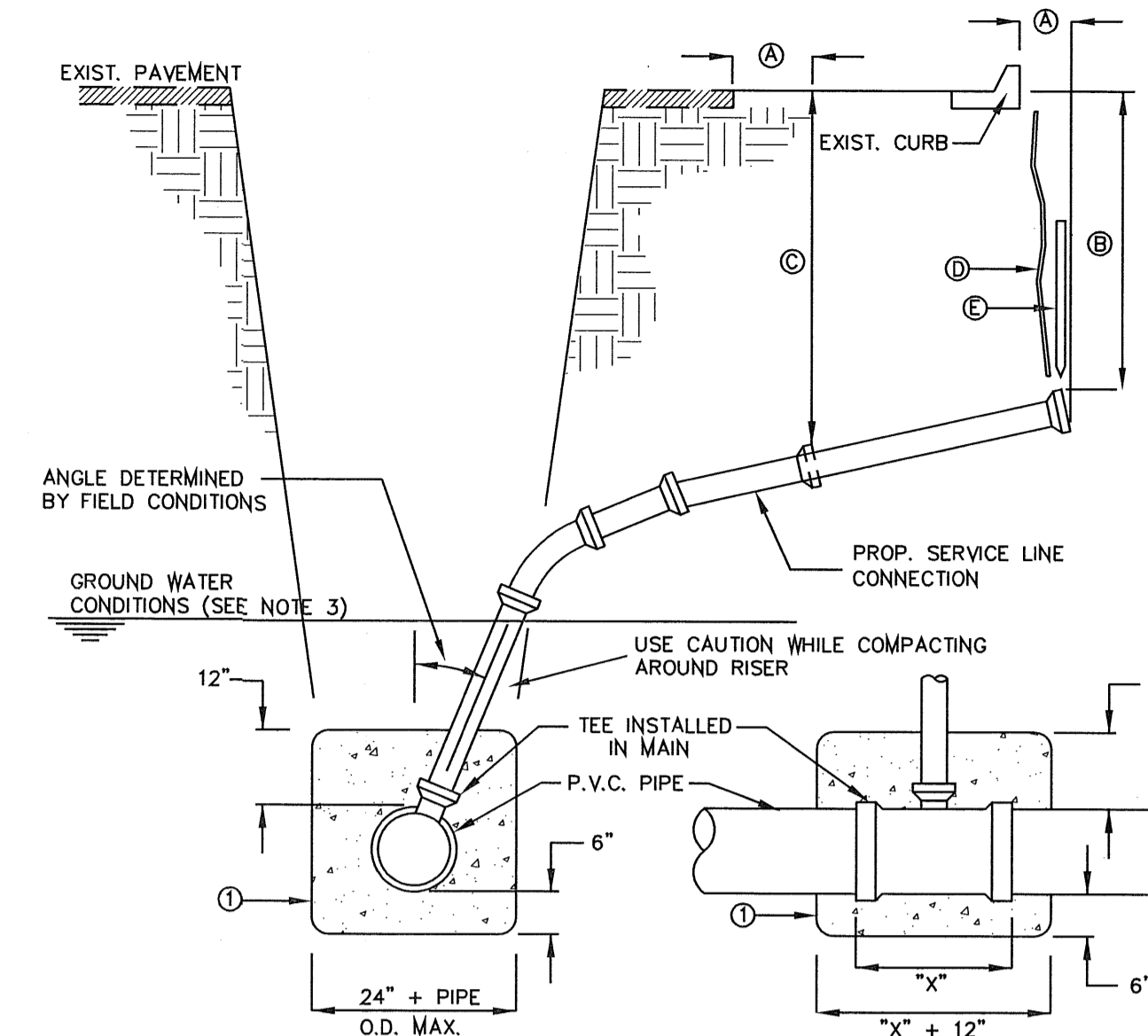
- CONSTRUCTION KEY NOTES:**
- A. MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
  - B. ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.
  - C. PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE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



CARRIER PIPE INSTALLATION  
WITH CASING INSULATORS  
N.T.S.  
**180**

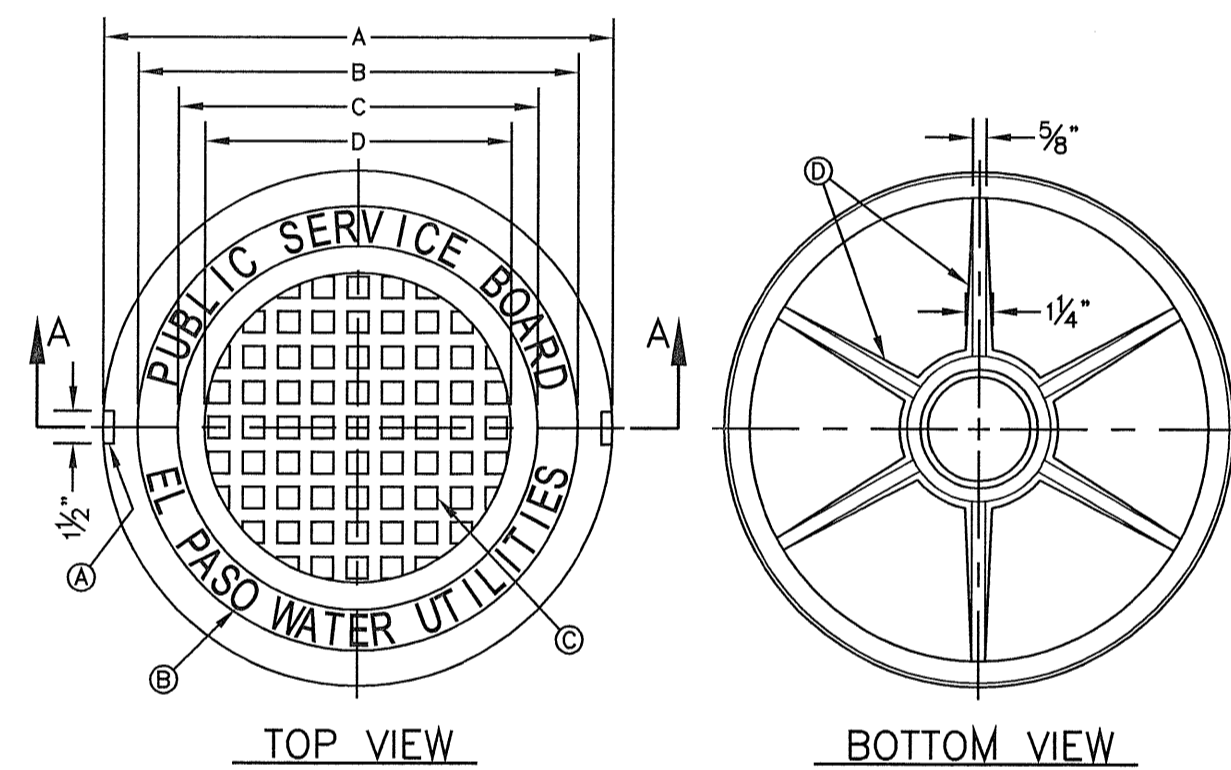
- GENERAL NOTES:**
1. INSTALLATION FOR APPROVED CARRIER PIPE.
  2. CASING SHALL BE INSTALLED USING EITHER JACKING, BORING OR TUNNELING METHODS FROM THE END WHICH CREATES A MINIMUM OF ACCESS AND RELOCATION PROBLEMS.
  3. INSULATED SPACERS SHALL BE USED WHEN SPECIFIED, TO PROVIDE CORROSION PROTECTION.
  4. PRECAUTIONARY OUTLET (6") WITH BONNET BOX AND COVER SHALL BE USED WHEN REQUIRED BY OTHER GOVERNING AGENCIES.

- CONSTRUCTION KEY NOTES:**
- A. STEEL CASING MINIMUM YIELD 36000 PSI, SIZE AND LENGTH AS SPECIFIED.
  - B. CASING INSULATORS, SPACING AND LOCATION PER MANUFACTURER'S RECOMMENDATIONS. INSULATORS SHALL FIT SNUG OVER THE CARRIER PIPE.
  - C. POSITION CARRIER PIPE APPROXIMATELY IN CENTER OF CASING. MINIMUM SPACING BETWEEN INSULATOR AND CARRIER PIPE SHALL BE 1". MAXIMUM SPACING SHALL BE 2".
  - D. END SHALL BE SEALED WITH BRICK AND MORTAR, BULKHEAD AND GROUT, OR WITH SYNTHETIC RUBBER SEAL, AS SPECIFIED.
  - E. ANNUAL SPACE SHALL BE LEFT OPEN FOR CATHODICALLY PROTECTED SYSTEM WHERE BOTH CASING AND CARRIER PIPE ARE METALLIC MATERIAL OR AS OTHERWISE SPECIFIED.
  - F. PRESSURE GROUT ANNUAL SPACE OUTSIDE CASING AFTER CASING IS INSTALLED.
  - G. BONNET BOX AND COVER (SEE DETAILS 268, 269-1 & 269-2) SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 260).



SEWER SERVICE RISER  
AND SERVICE LINE CONNECTION  
N.T.S.  
**391**

- GENERAL NOTES:**
1. IN GROUNDWATER CONDITIONS ONLY, P.V.C. SADDLES OR TEES ARE TO BE ENCASED WITH CLASS B CONCRETE.
  2. UNDER CERTAIN CONDITIONS FIELD INVESTIGATIONS WILL BE REQUIRED TO DETERMINE THE ADEQUACY OF THE DEPTH ON THE LATERAL.
  3. WHEN GROUND WATER IS ENCOUNTERED SERVICE RISER SHALL BE EXTENDED ABOVE ANTICIPATED WATER TABLE LEVEL.
- CONSTRUCTION KEY NOTES:**
- A. CONTRACTOR TO INSTALL SEWER SERVICE LINE FROM THE MAIN TO A LOCATION 6" BEHIND THE CURB OR 18" BEYOND THE EDGE OF PAYMENT, UNLESS CONDITIONS REQUIRE OTHERWISE.
  - B. 18" FOR STANDARD SUBDIVISION, 3.5' FOR SUBDIVISIONS WITH ON-SITE PONDING OR FLAT TERRAIN.
  - C. RISERS OR LATERALS EXTENDING BEYOND EXISTING PAVING SHALL BE INSTALLED TO 3.5' MINIMUM TOP OF GROUND OR PAVEMENT, UNLESS CONDITIONS REQUIRE OTHERWISE.
  - D. PLASTIC METALLIC MARKING TAPE RISING TO WITHIN 6" OF GROUND SURFACE OR METALLIC DISK.
  - E. WOODEN STAKE (1"x2"x36") VERTICALLY PLACED AT PLUGGED END OF PROPOSED SERVICE LINE.



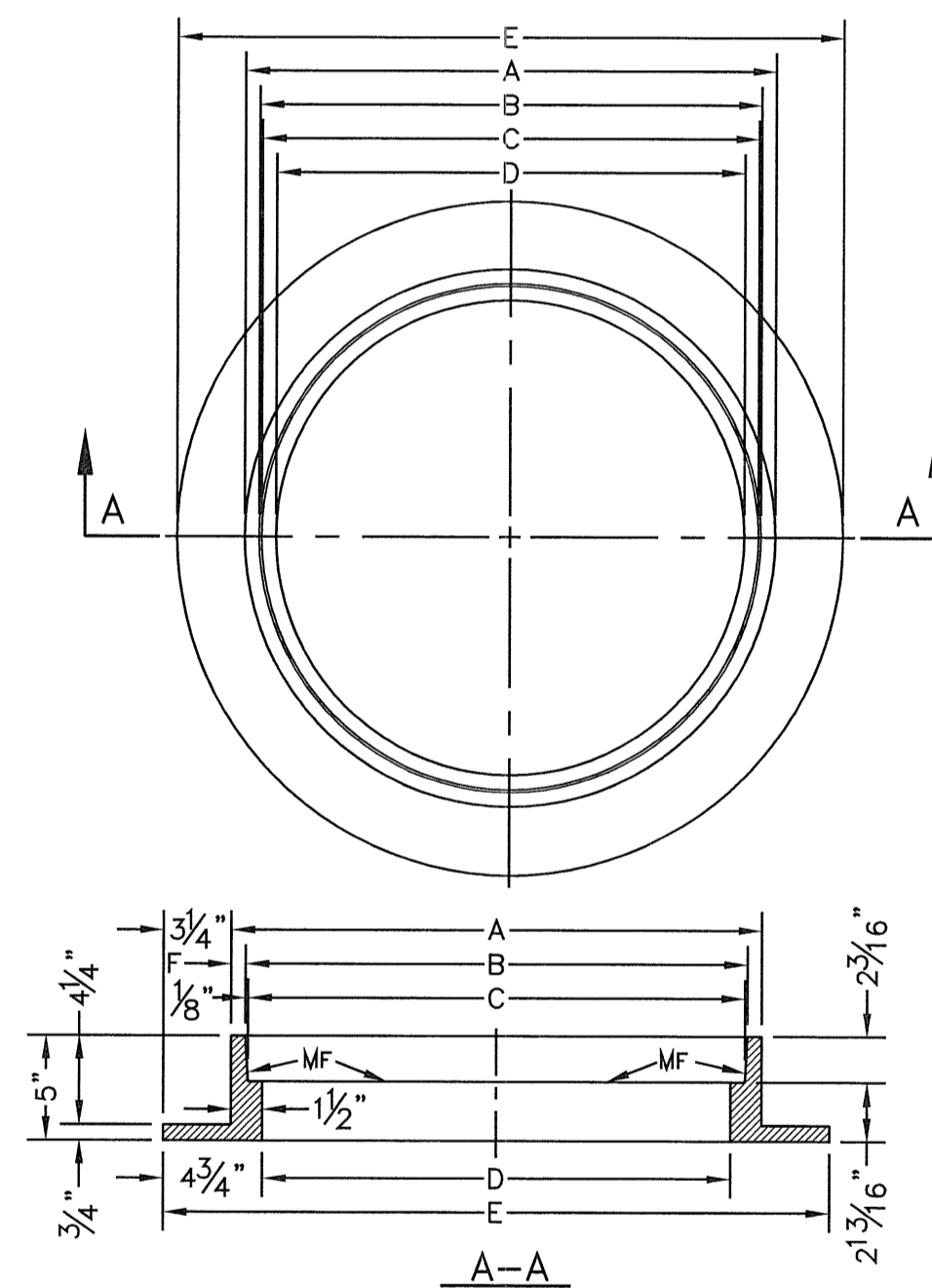
SEWER MANHOLE COVER  
N.T.S.  
**378**

- GENERAL NOTES:**
1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
  2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
  3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
  4. AS-CAST DIMENSIONS MAY VARY 1/16" ± / PER FOOT (AASHTO M306-07).
  5. WEIGHT MAY VARY 5% ± (AASHTO M306-07).

- CONSTRUCTION KEY NOTES:**
- A. LIFTING NOTCH.
  - B. 3/16" RAISED LETTERING.
  - C. 1" SQUARES (3/16" TALL) WITH 5/16" SPACE BETWEEN.
  - D. REINFORCING RIBS.
  - E. SLOT.

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

\*OBSOLETE - DO NOT USE  
(FOR REFERENCE ONLY)

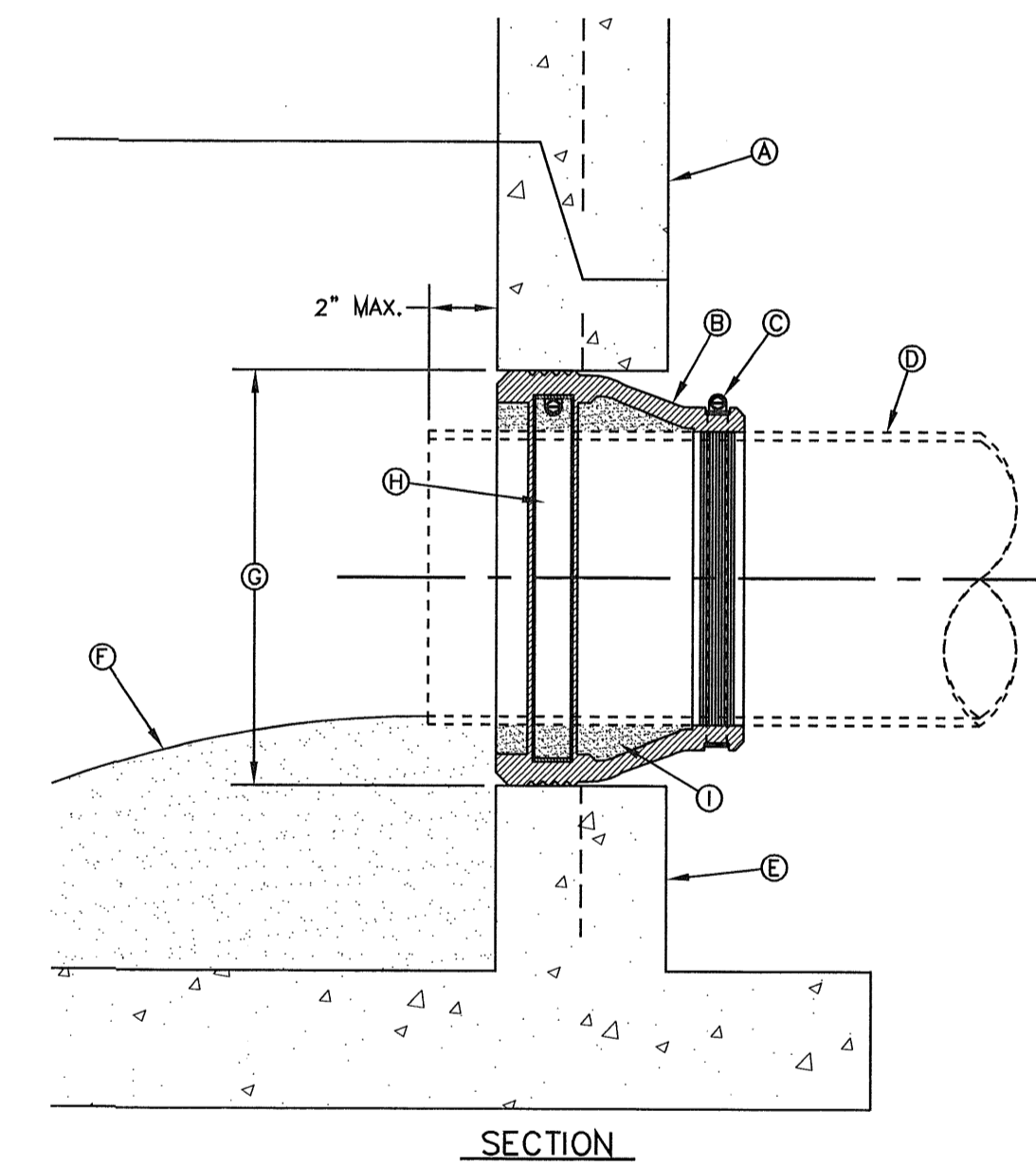


SEWER MANHOLE RING  
N.T.S.  
**377**

- GENERAL NOTES:**
1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
  2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
  3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
  4. AS-CAST DIMENSIONS MAY VARY 1/16" ± / PER FOOT (AASHTO M306-07).
  5. WEIGHT MAY VARY 5% ± (AASHTO M306-07).

MANHOLE RING	MANHOLE - ALL TYPES	*MANHOLE TYPE A, A1, A2 & C
A	33"	25 1/2"
B	31 3/4"	24 3/8"
C	31 1/2"	23 3/8"
D	30"	22 1/2"
E	29 1/2"	32"
F	3/8"	1 1/8"
WEIGHT	220 lbs.	170 lbs.

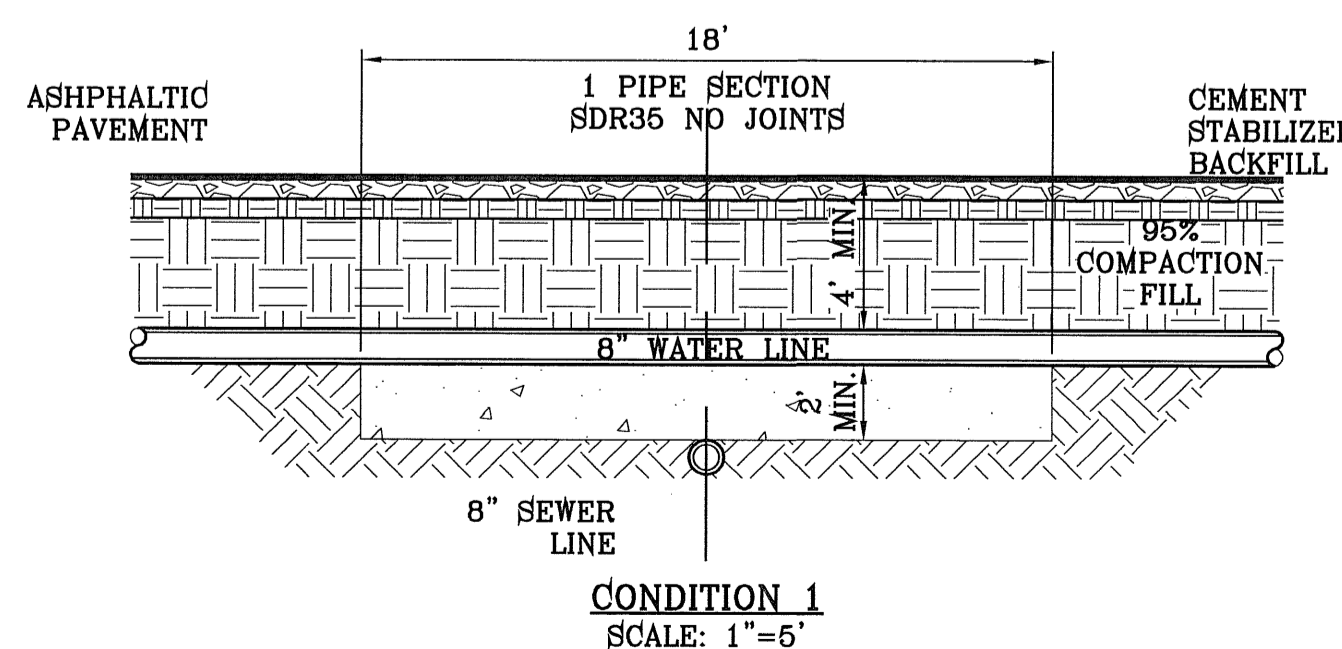
\*OBSOLETE - DO NOT USE  
(FOR REFERENCE ONLY)



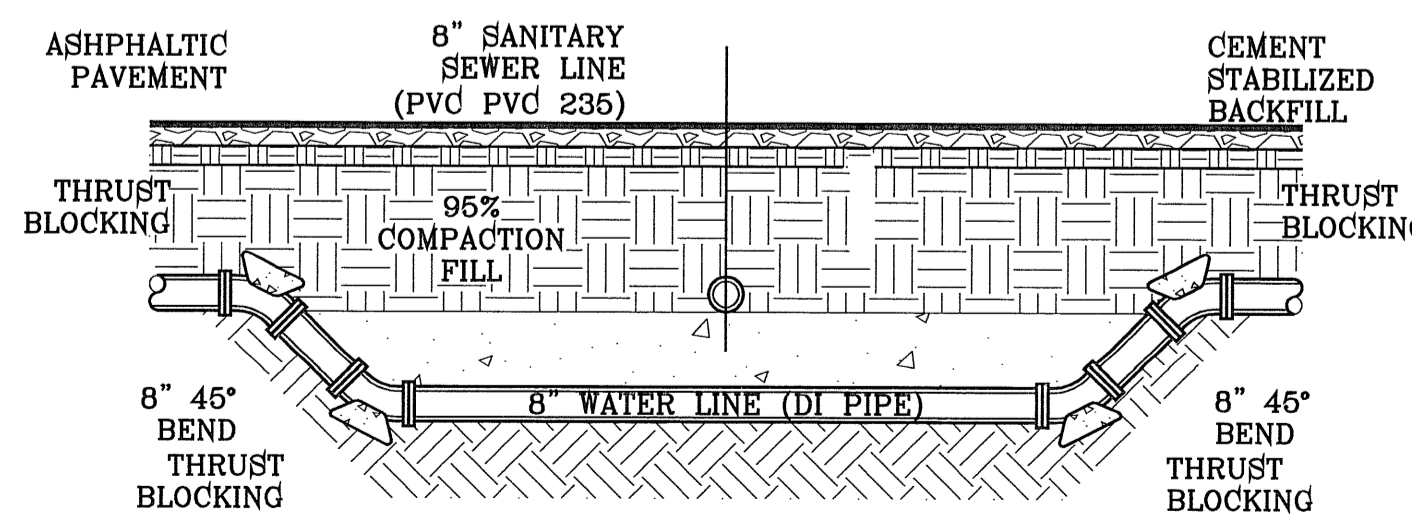
PIPE CONNECTION TO MANHOLE  
N.T.S.  
**376**

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

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



CONDITION 1  
SCALE: 1"=5'



CONDITION 2  
SCALE: 1"=5'

EL PASO WATER UTILITY DETAILS  
NUMBERS:  
180, 370-1, 376, 377, 378, 391

TIERRA DEL ESTE UNIT SIXTY SEVEN

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**CONDE INC.**  
REGISTRATION No. F-2321

**TIERRA DEL ESTE UNIT SIXTY SEVEN**

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.  
ELEVATION 4017.47  
DATE 10/3/11  
REVISIONS AS PER 8/24/11 REDLINES  
DATE 11/17/11  
REVISIONS AS PER 10/19/11 REDLINES

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 166,264± ACRES

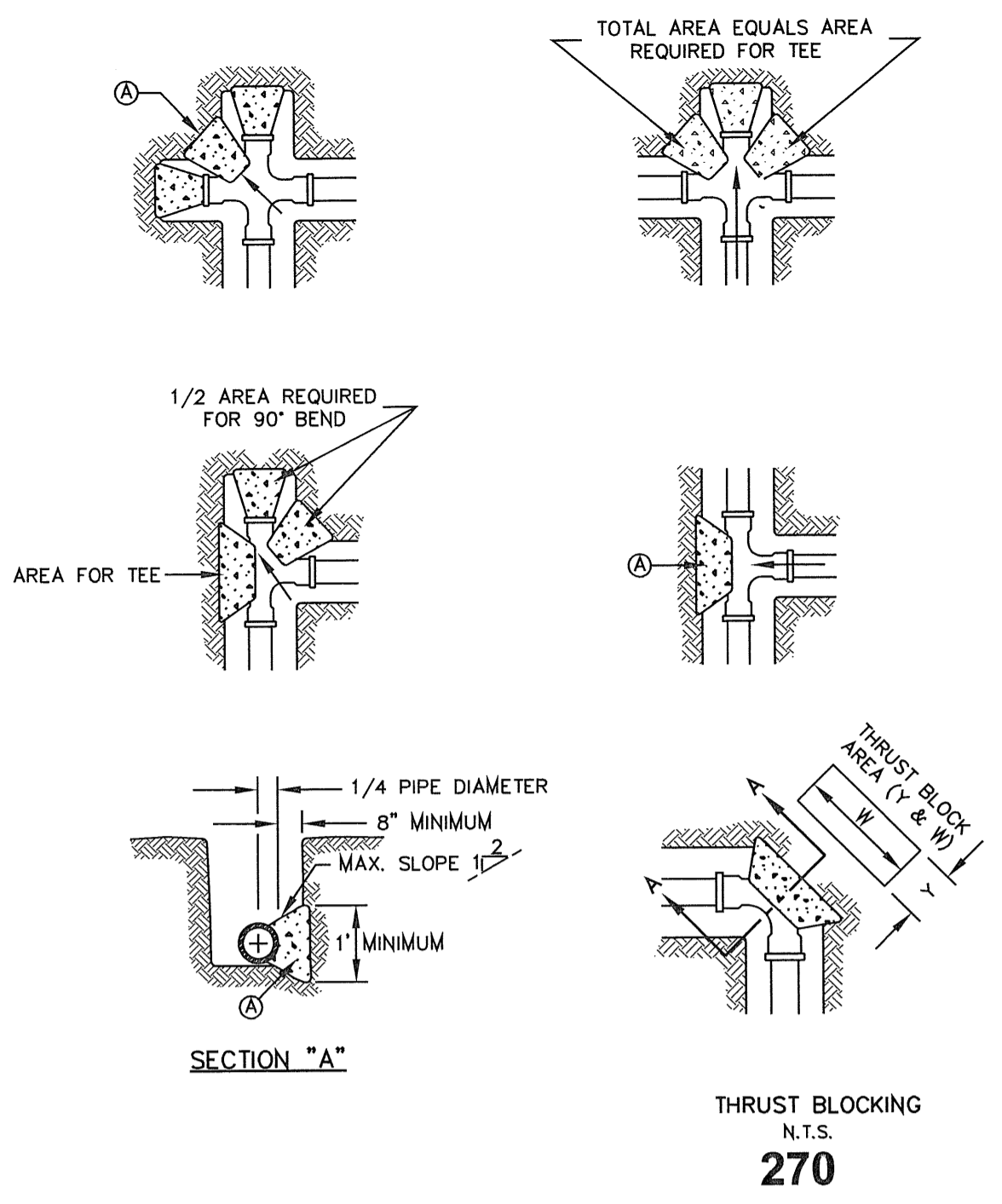
ENGINEER'S SEAL  
ENGINEER'S SEAL NOT REQUIRED. THIS SHEET IS TO BE USED FROM THE SUBDIVISION DESIGN STANDARDS

SCALE  
HORIZ: ---  
VERT: ---  
DATE: MAY 2012  
DESIGN BY: LH  
INITIATED BY: OM  
SUBDIVISION CHECKED BY: YC  
DESIGN STANDARDS JOB NO.: 1110-18

SHEET TITLE  
**SEWER DETAILS**

SHT 110 OF 112

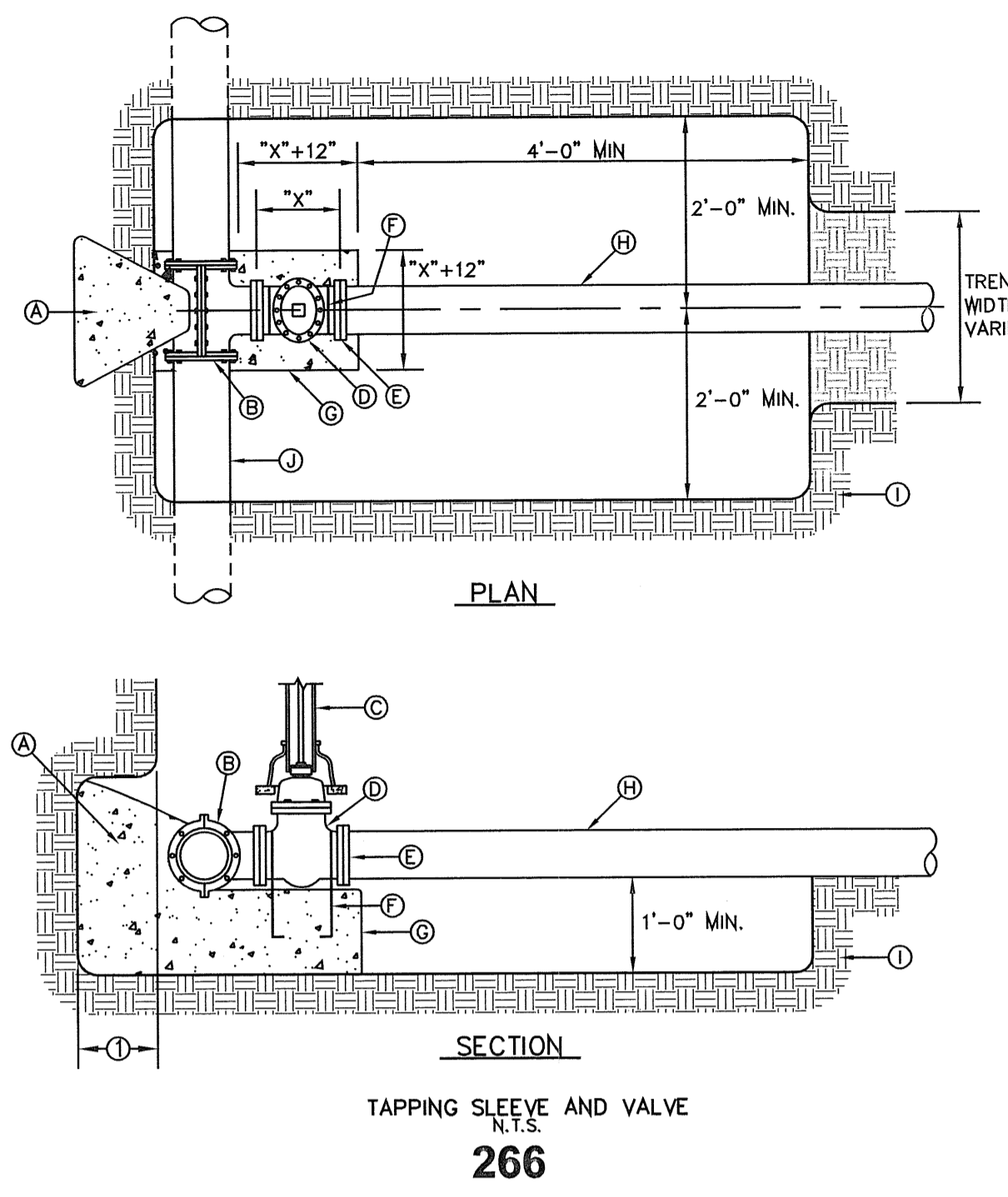
FILE LOCATION S:\\_Subdivisions\TDE 67 DWG\TDE67-W&S NOTES AND DETAILS PLOTTED ON Thursday, August 23, 2012 9:22:32 AM BY OSCAR MEDINA



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

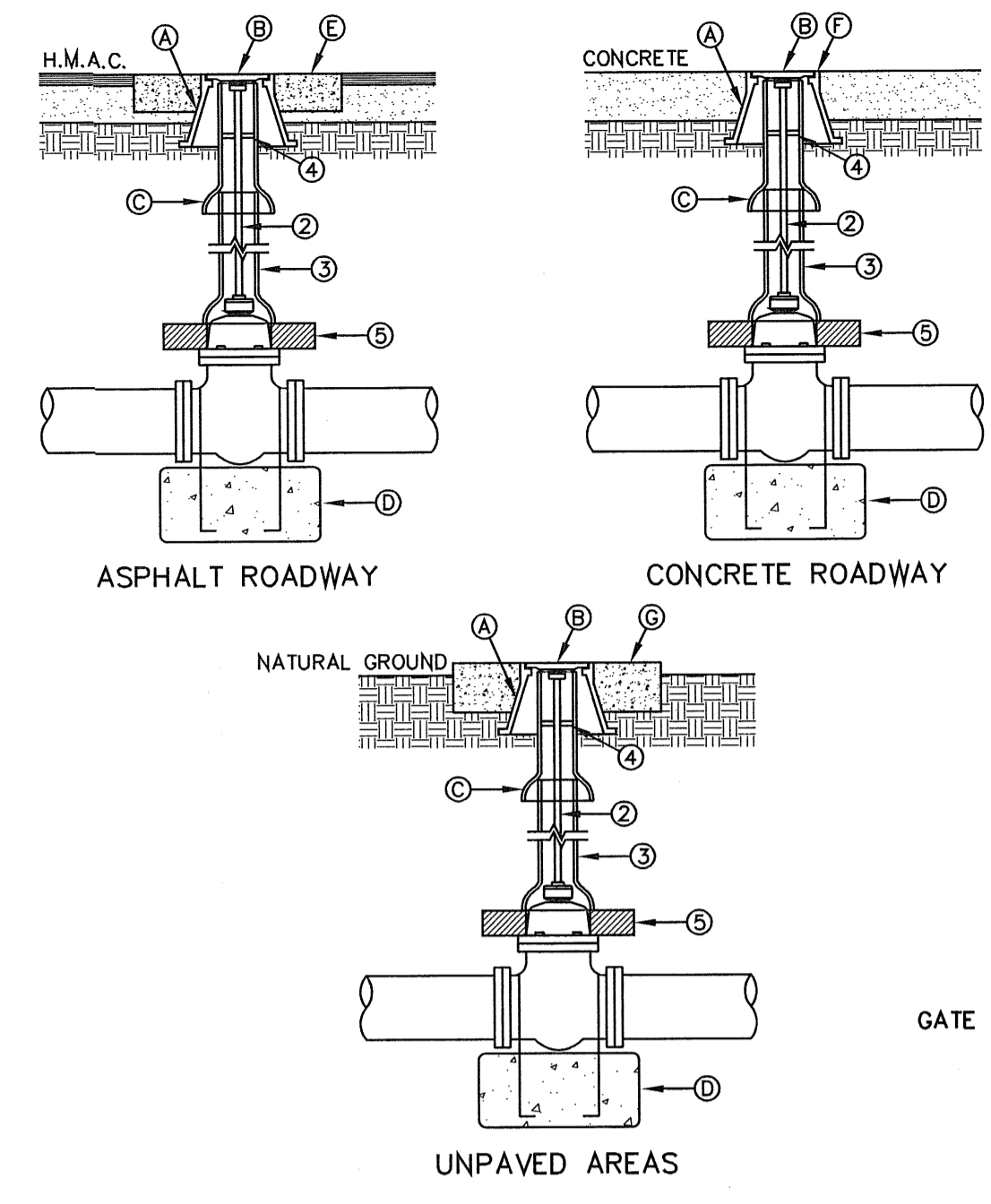
**CONSTRUCTION KEY NOTES:**  
 A. LENGTH "Y" & "W" AS REQUIRED TO OBTAIN BEARING AREA AGAINST UNDISTURBED SOIL.  
 B. ADDITIONAL EXCAVATION IF NECESSARY TO OBTAIN REQUIRED BEARING AREA.  
 C. MINIMUM THRUST BLOCK AREA REQUIREMENTS FOR (Y & W) AS FOLLOWS:

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



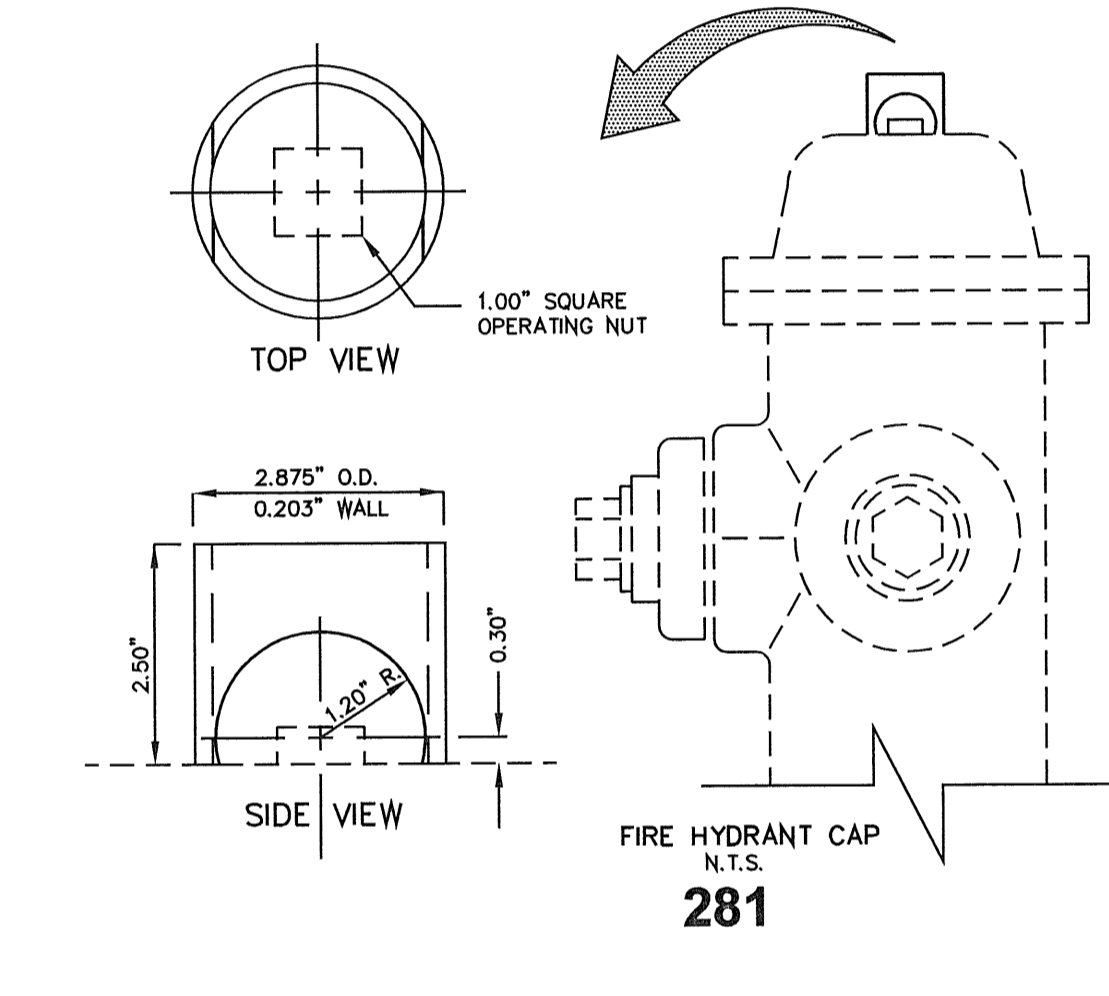
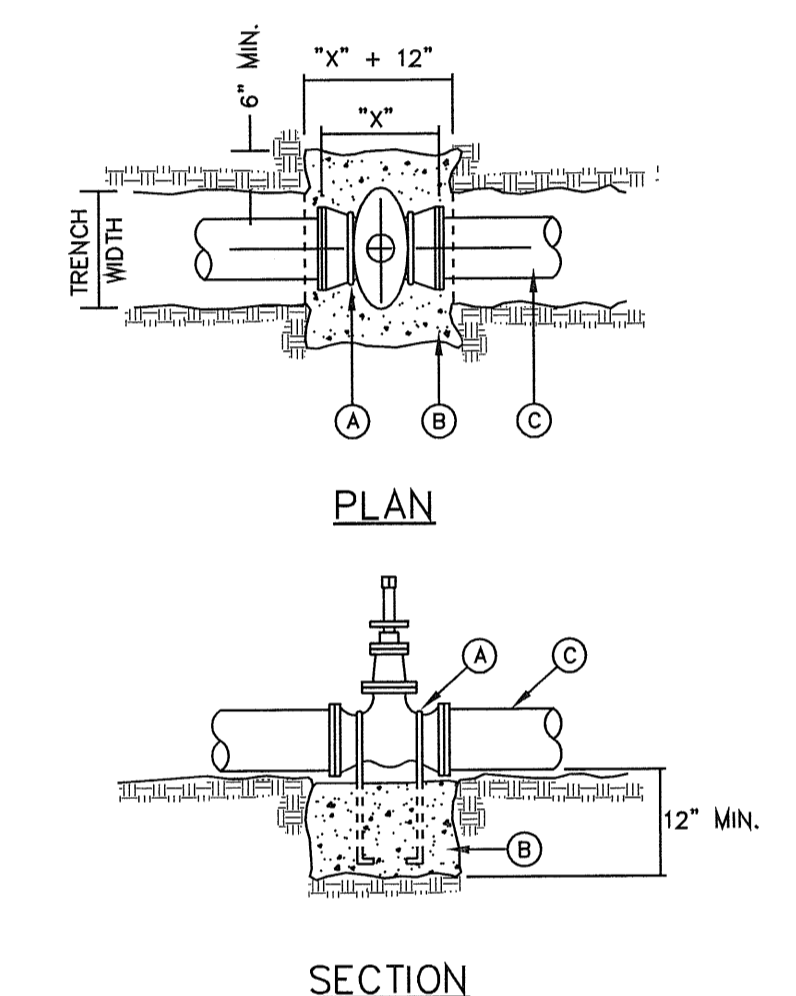
**GENERAL NOTES:**  
 1. THRUST BLOCKING SHALL EXTEND TO UNDISTURBED EARTH.  
 2. TAPPING SLEEVE SHALL BE 18" MINIMUM FROM ANY BELL, COUPLING, VALVE OR FITTING LOCATED ALONG EXISTING WATER LINE TO BE TAPPED.  
 3. REPLACE EXCAVATED MATERIAL WITH CEMENT STABILIZED BACKFILL PRIOR TO PAVING.  
 4. JOINTS AND BOLTS SHALL BE CLEAR OF CONCRETE.  
 5. INSTALL PERMANENT THRUST BLOCKING UNDER VALVE BEFORE TAP IS MADE. JOINTS AND BOLTS TO BE CLEAR OF CONCRETE.

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



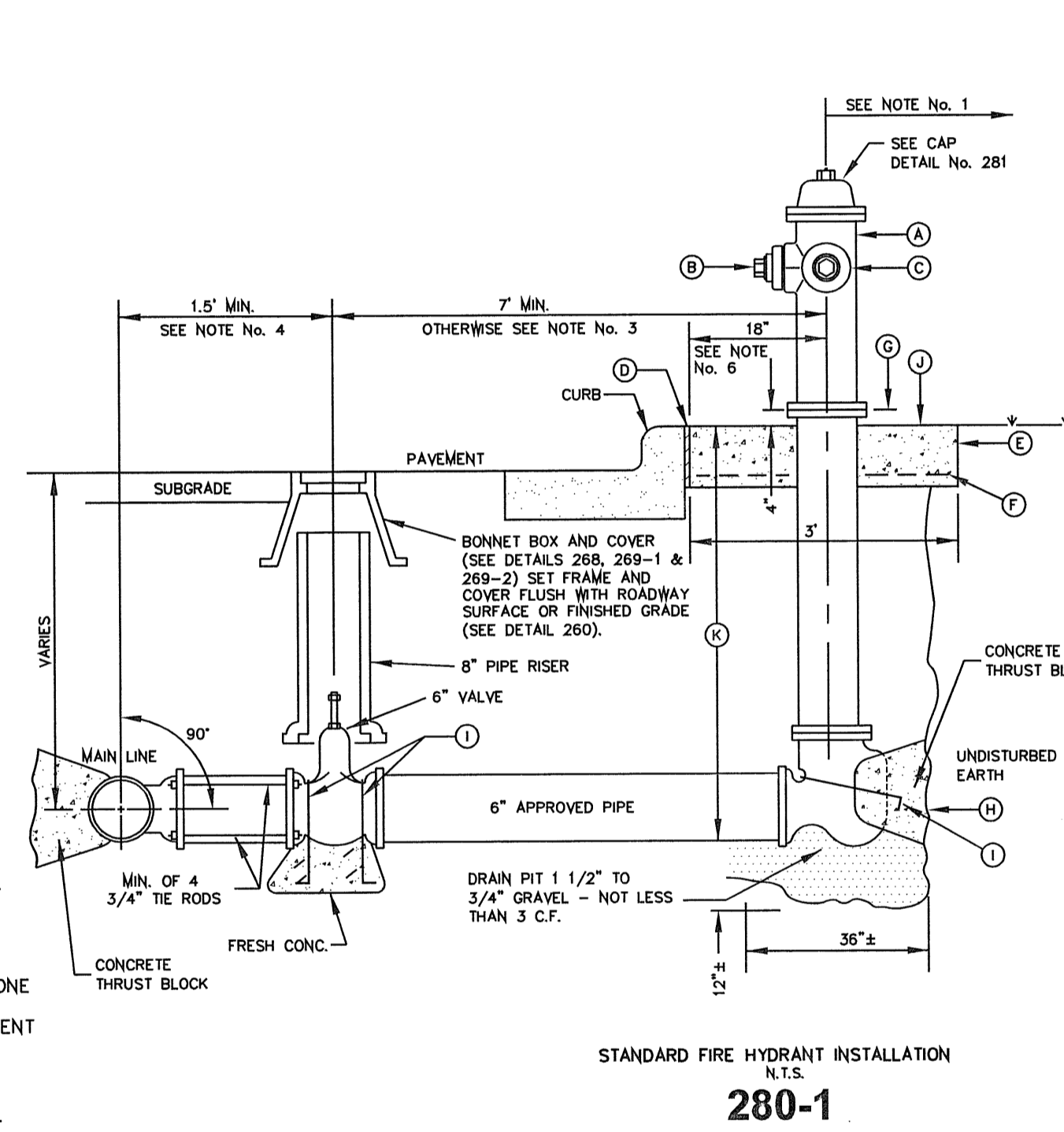
**GENERAL NOTES:**  
 1. VALVE TYPE AND VALVE ENDS SHALL BE AS SHOWN ON THE PLANS.  
 2. ALL BURIED VALVES 5" AND DEEPER SHALL BE PROVIDED WITH SOLID STEEL EXTENSION STEM OPERATOR WITH 2" SQUARE ANHWA NUT WITHIN 36" OF VALVE BOX COVER. NUT IS TO INDICATE DIRECTION OF ROTATION TO OPEN VALVE.  
 3. 8" DIA. MINIMUM VITRIFIED CLAY OR SDR 35 P.V.C. PIPE, PIPE SHALL NOT REST ON VALVE BODY.  
 4. 1/2" THICK STEEL TRASH RING VALVE BOX INSIDE DIAMETER MINUS 1/8".  
 5. MINIMUM 2 1/2" CONCRETE OR BRICK AROUND BOX.  
 6. CLEAN BONNET BOX OF ALL DEBRIS AND SOIL.  
 7. COAT BURIED PIPE AND BONNET BOX PER SPECIFICATIONS. VALVE SHALL BE WRAPPED IN POLYETHYLENE IN ACCORDANCE WITH SPECIFICATIONS.

**CONSTRUCTION KEY NOTES:**  
 A. BONNET BOX (SEE DETAIL 268).  
 B. BONNET BOX COVER (SEE DETAILS 269-1 & 269-2).  
 C. FINAL EXTENSION TO BONNET BOX SHALL BE WITH BELL AND SPIGOT ENDS (CLAY OR SDR 35 P.V.C. SPOOL).  
 D. CONCRETE VALVE ANCHOR (SEE DETAIL 271).  
 E. CONCRETE COLLAR (SEE DET 184-1) FLUSH WITH TOP OF H.M.A.C.  
 F. BONNET BOX FLUSH WITH TOP OF CONCRETE. CONCRETE COLLAR NOT NEEDED.  
 G. CONCRETE APRON (SEE DETAIL 184-2) FLUSH WITH BONNET BOX AND 2" ABOVE NATURAL GROUND.

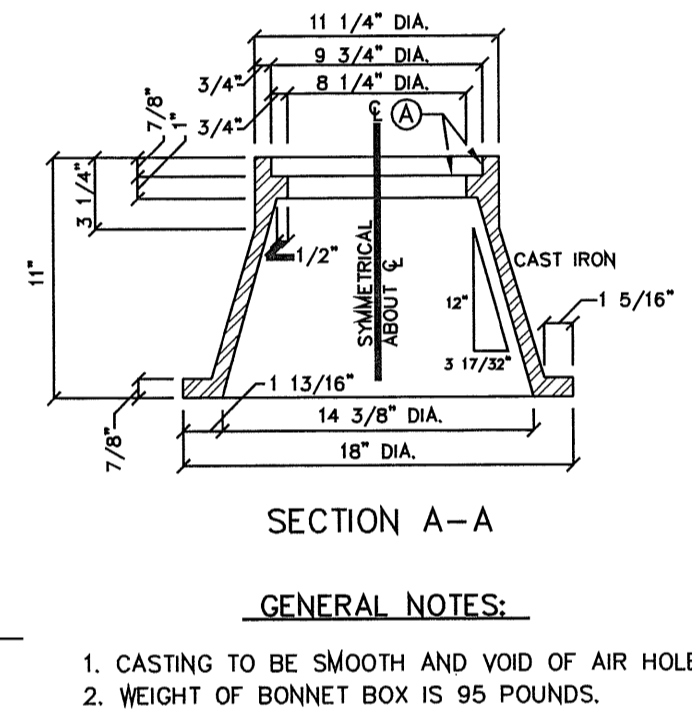
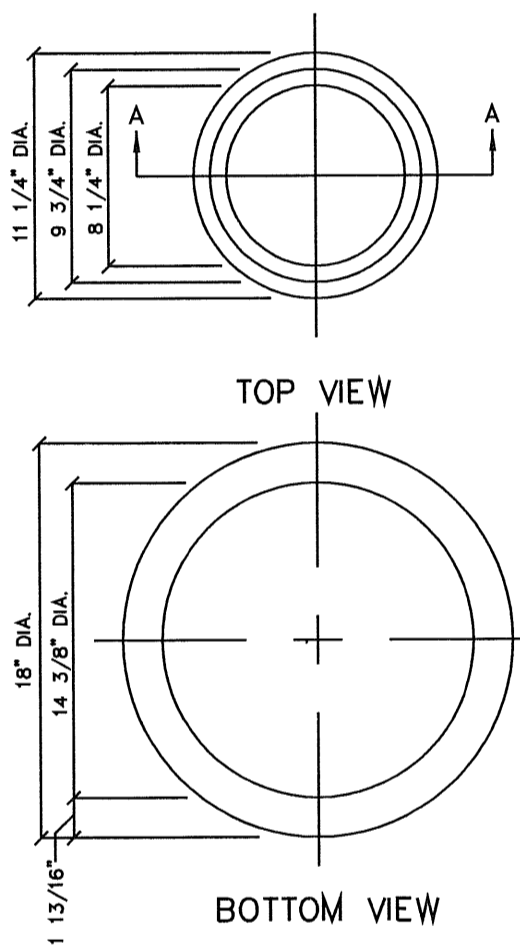


1. STEEL CAPS TO BE MACHINED FROM STEEL PIPE: NOMINAL SIZE = 2 1/2" DIA. OUTSIDE DIA. = 2.875" WALL THICKNESS = 0.203 LBS/FT. = 5.79  
 2. CAPS ARE TO BE TACK WELDED OR BRAZED ON FIRE HYDRANT BONNET OR WEATHER CAP.  
 3. THE CAPS OVER THE OPERATING NUT WILL PREVENT ACCESS TO THE UNAUTHORIZED USE OF HYDRANT WATER.

**GENERAL NOTES:**  
 1. DETAIL DRAWING TERMINOLOGY IS IN ACCORDANCE WITH ASTM D-2321.  
 2. UNLESS OTHERWISE PERMITTED BY THE ENGINEER, ALL MATERIAL IN THE EMBEDMENT ZONE SHALL BE HOMOGENOUS.

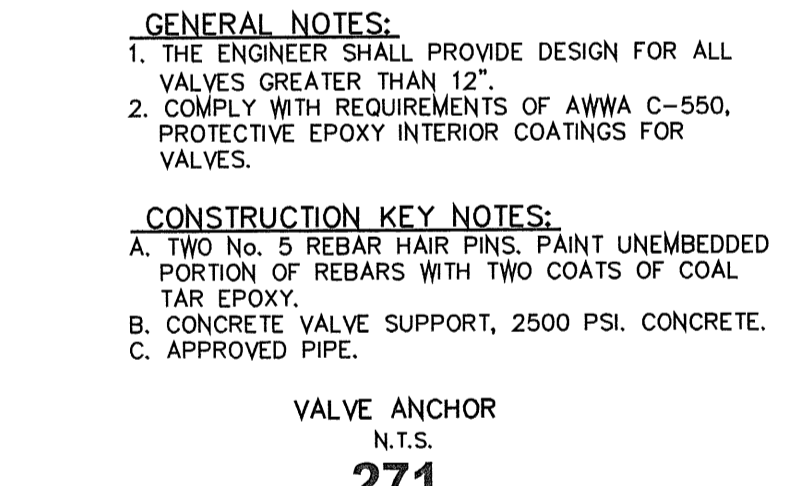


**GENERAL NOTES:**  
 1. NO OBSTRUCTIONS WILL BE PERMITTED WITHIN 5 FT. IN ALL DIRECTIONS OF FIRE HYDRANT (PER EL PASO MUNICIPAL CODE, TITLE 12). FIRE HYDRANT SHALL NOT BE PLACED IN WHEEL CHAIR RAMP OR DRIVEWAY.  
 2. FIRE HYDRANT SHALL BE LOCATED AT THE BEGINNING OF CURB RETURN OR AT THE PROPERTY LINE COMMON TO ADJOINING LOTS, UNLESS OTHERWISE SHOWN ON PLANS. REFER TO DETAIL No. 282 FOR SPECIAL CASES.  
 3. WHERE DISTANCE IS LESS THAN 7', HYDRANT SHALL BE INSTALLED IN ACCORDANCE WITH DETAIL No. 282.  
 4. VALVE MAY BE CONNECTED TO TEE AT MAIN LINE. USE FLANGED MECHANICAL JOINT ENDS, WHERE SPOOL IS REQUIRED BETWEEN TEE AND VALVE, USE FLANGED MECHANICAL ENDS WITH 3/4" DIAMETER TIE RODS.  
 5. COMPLY WITH REQUIREMENTS OF AWWA C-502, DRY BARREL FIRE HYDRANTS AND AWWA C-550, PROTECTIVE EPOXY INTERIOR COATINGS FOR VALVES AND HYDRANTS.  
 6. WHEN INSTALLATION IS WITHIN 120 FT. RIGHT OF WAY, HYDRANT SHALL NOT BE PLACED IN SIDEWALK AREA OR ANY CLOSER THAN 5' FROM BACK OF CURB.  
**CONSTRUCTION KEY NOTES:**  
 A. FIRE HYDRANT PER SPECS.  
 B. PUMPER NOZZLE 4 1/2" TO BE FACING THE TRAVELED WAY, UNLESS OTHERWISE NOTED IN THE PLANS.  
 C. HOSE NOZZLE 2 1/2".  
 D. 1/2" PREMOLDED EXPANSION JOINT WITH 1" TOP FILLER.  
 E. 3"x4" CONC. SQ. PAD, TO BE CONSTRUCTED AROUND FIRE HYDRANT'S CENTER LINE WHEN NOT LOCATED WITHIN SIDEWALK OR CONC. AREA.  
 F. #10, 6/8 W/F.  
 G. CONTROLLED ELEVATION LINE, LEVEL IN ALL DIRECTIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING TOP FLANGE OF THE HYDRANT TO CONTROLLED ELEVATION.  
 H. CONC. THRUST BLOCK, APPROX. 2'x2'x3" TO BE POURED AGAINST UNDISTURBED EARTH, F.H. WEEP HOLE MUST BE UNOBSTRUCTED.  
 I. 2"x1/4" STEEL ANCHOR PINS.  
 J. TOP OF SLAB SHALL BE AT CURB LEVEL 4" BELOW THE BREAK LINE OF THE HYDRANT, UNDER SPECIAL CONDITIONS THE ENGINEER MAY ALLOW VARIATIONS TO THIS CONSTRUCTION.  
 K. CONTRACTOR IS TO PROVIDE ADDITIONAL SPOOLS IF NEEDED TO MAINTAIN THE 4" MIN. CLEARANCE FROM THE CONTROLLED ELEV. LINE TO TOP OF SLAB.

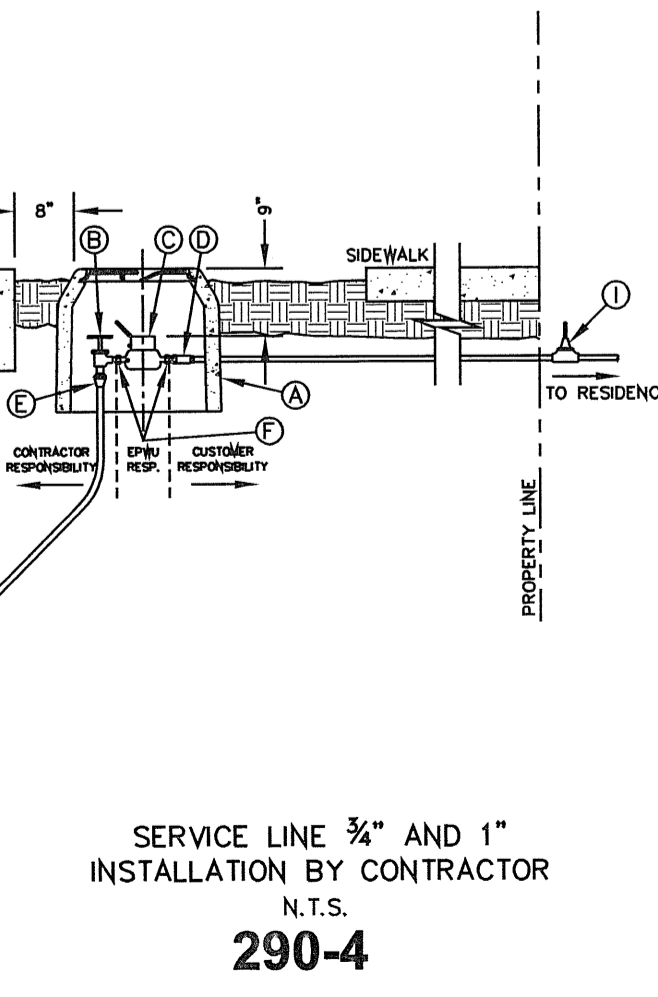
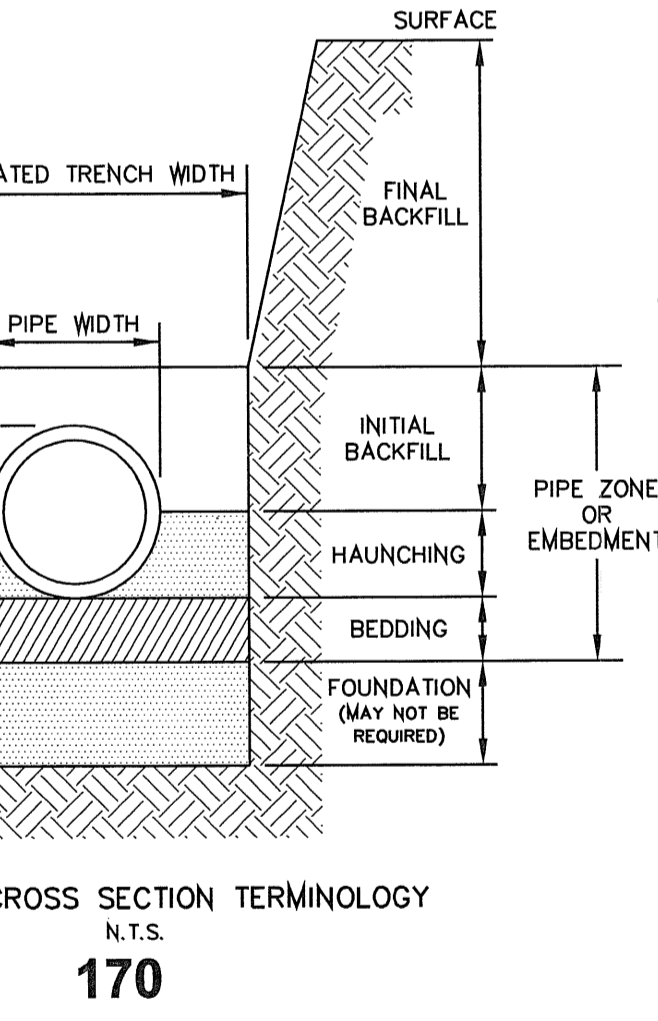
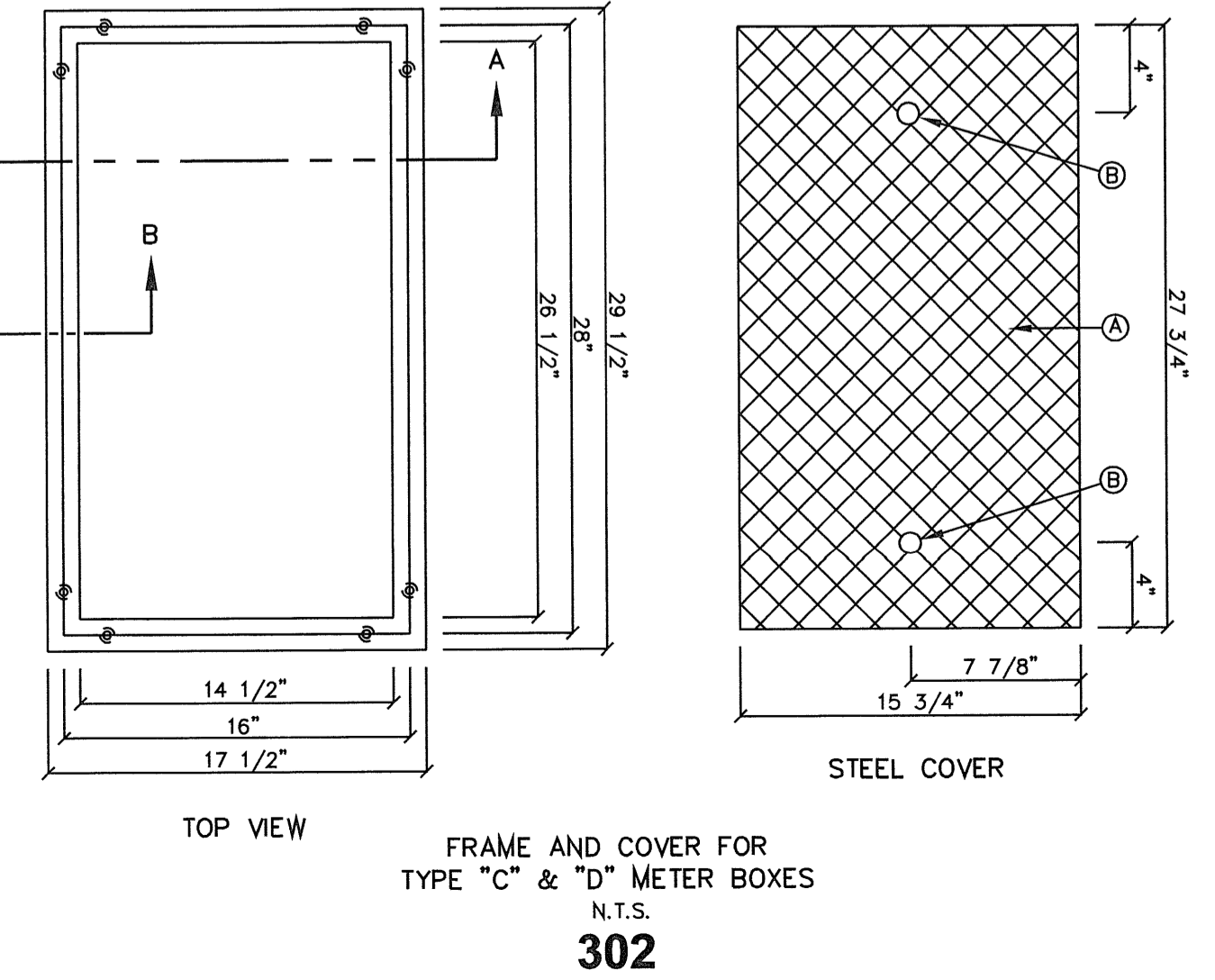
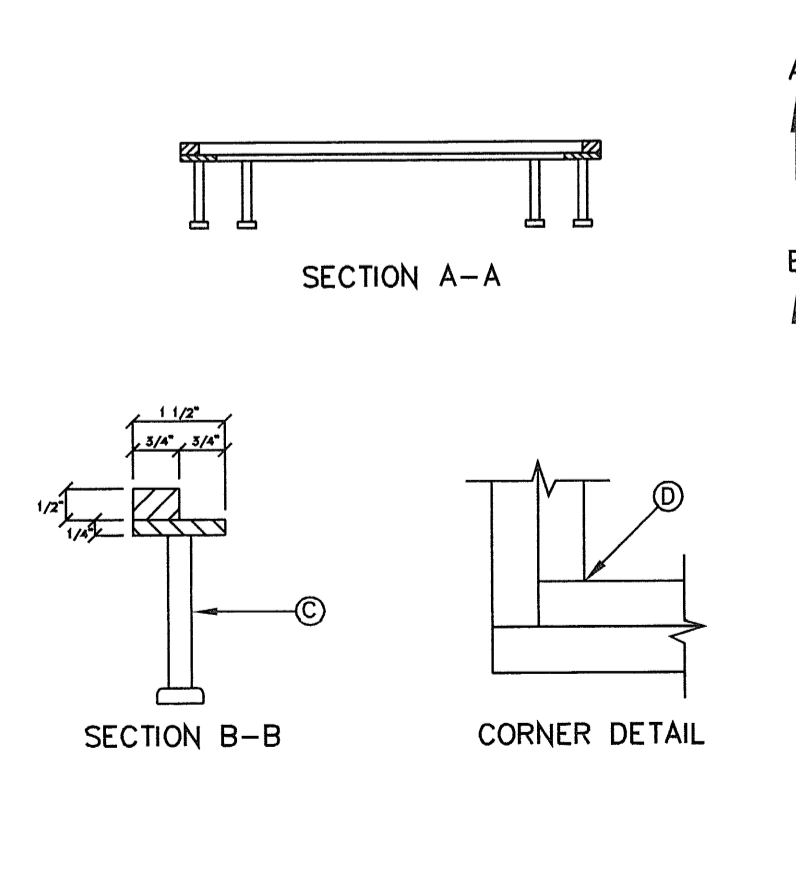


**GENERAL NOTES:**  
 1. CASTING TO BE SMOOTH AND VOID OF AIR HOLES.  
 2. WEIGHT OF BONNET BOX IS 95 POUNDS.

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

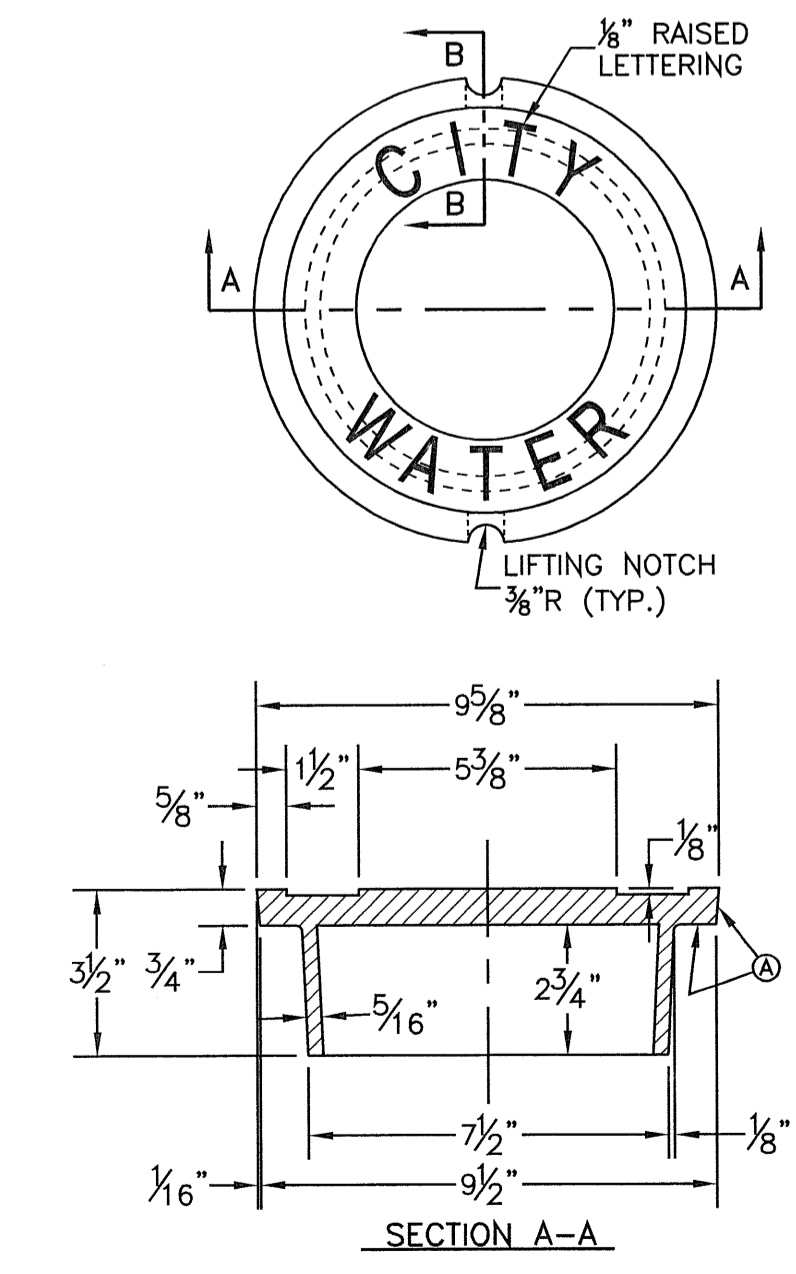


**CONSTRUCTION KEY NOTES:**  
 A. MATERIAL 3/4" DIAMOND PLATE  
 B. 2 - 1" DIAMETER HOLES  
 C. 8 - 3/4"x2 1/2" NELSON STUDS  
 D. BUTT CORNERS AND TACKWELD GRIND SMOOTH



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

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



**GENERAL NOTES:**  
 1. CASTINGS TO BE SMOOTH AND VOID OF AIR HOLES.  
 2. WEIGHT OF COVER IS 18 POUNDS.

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

**BONNET BOX COVER (FLIP RESISTANT) N.T.S. 269-2**  
**EL PASO WATER UTILITY DETAILS NUMBERS: 260, 266, 268, 269-2, 270, 271, 280-1, 281, 290-4, 302**

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47' ±

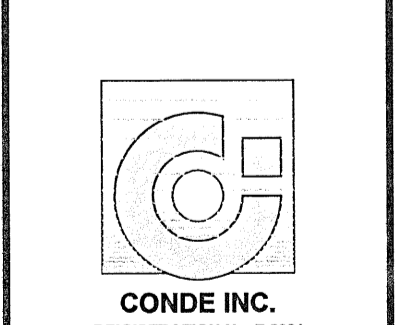
DATE	BY	O.M.
10/9/11		
11/1/11		

REVISIONS AS PER 10/19/11 REDLINES  
 REVISIONS AS PER 10/19/11 REDLINES

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 87, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEY, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 166,254 ± ACRES

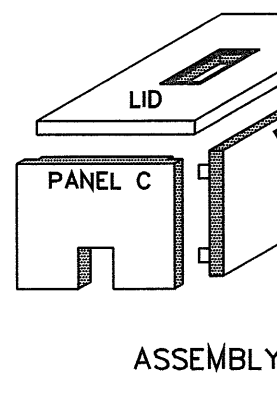
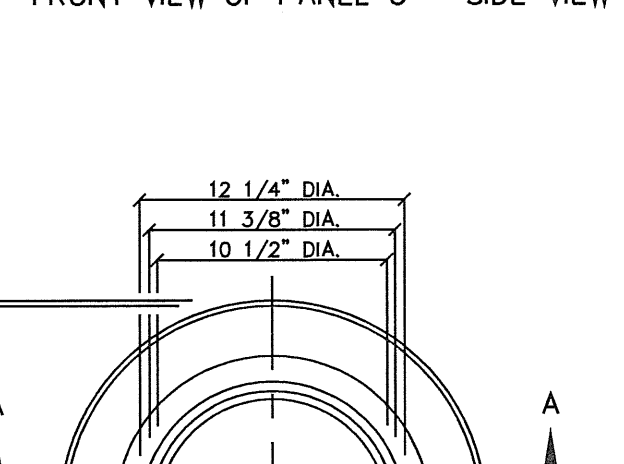
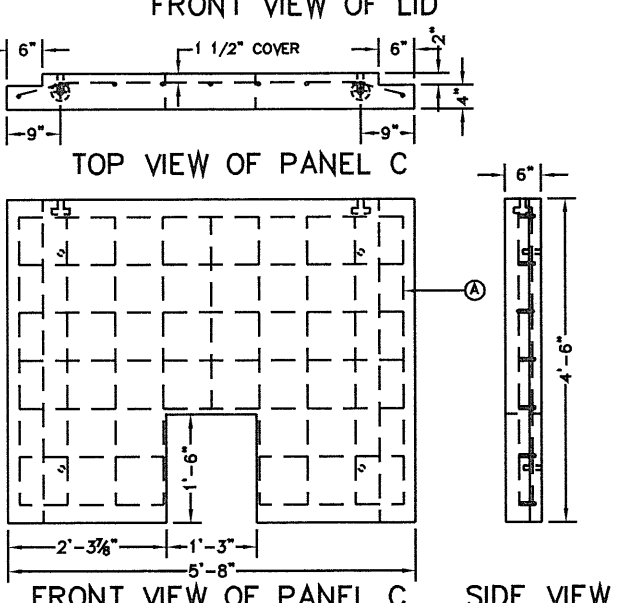
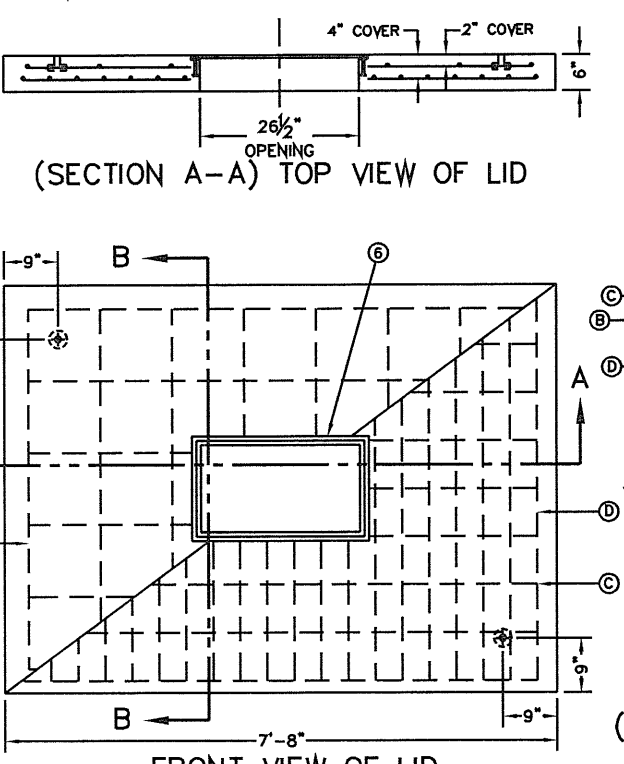
ENGINEER'S SEAL  
 HORIZ: ---  
 VERT: ---  
 DATE: MAY 2012  
 DESIGN BY: LH  
 FROM CITY SUBDIVISION DESIGN STANDARDS  
 CHECKED BY: YC  
 JOB NO.: 1110-18

**CONDE INC.**  
 ENGINEERING / PLANNING SURVEYING / GPS  
 6080 SURETY DR. STE 100 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283 FAX: (915) 592-0286



**WATER DETAILS**  
 SHT 111 OF 112

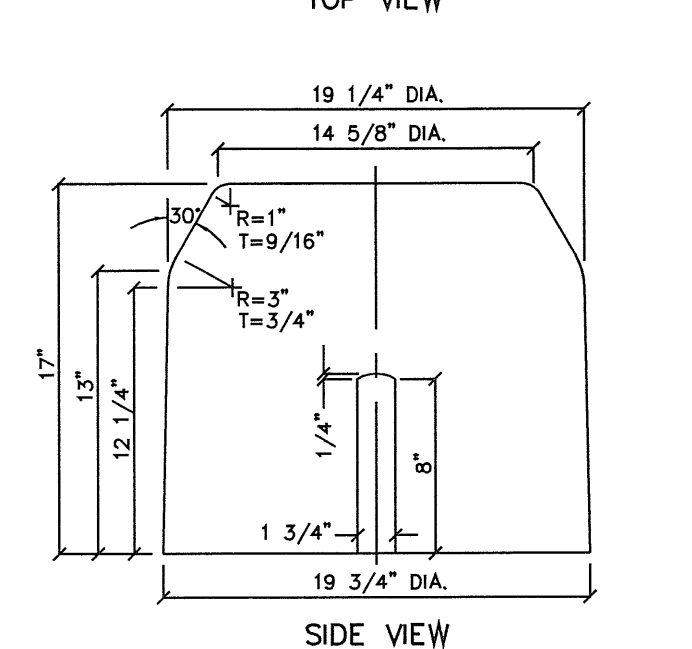
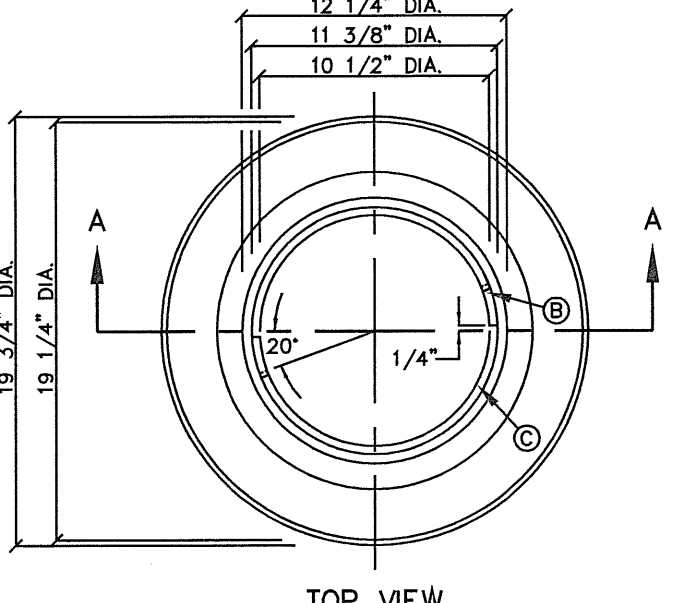
FILE LOCATION S:\Subdivisions\TDE 67\DWG\TDE67-W&S NOTES AND DETAILS PLOTTED ON Thursday, August 23, 2012 9:22:37 AM BY OSCAR MEDINA



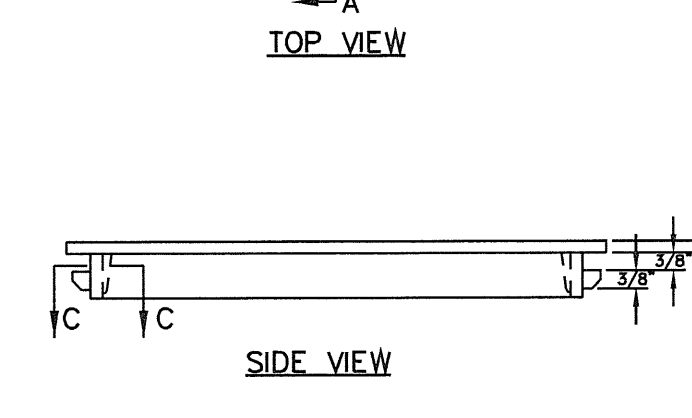
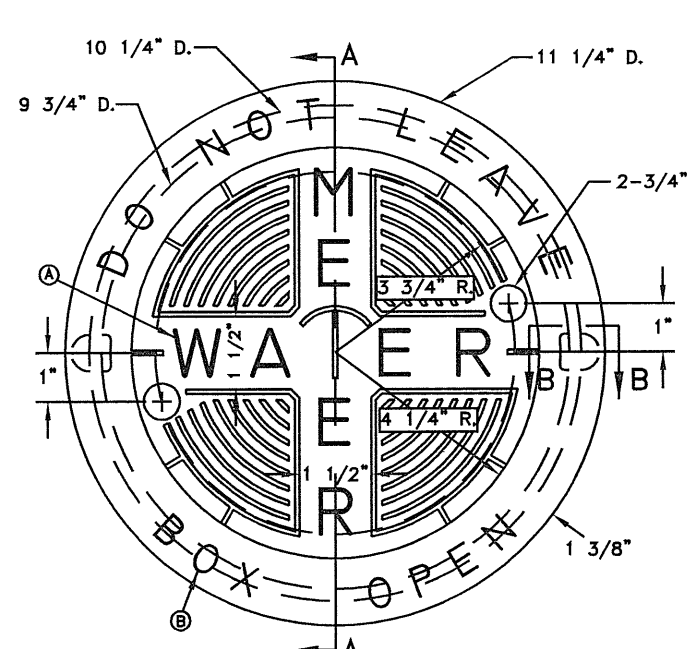
**GENERAL NOTES:**  
 1. WATER CEMENT RATIO 0.5 OR LESS BY WEIGHT OR NOT MORE THAN 5.5 GALLONS PER SACK.  
 2. REINFORCING SHALL COMPLY WITH ASTM A615 GRADE 60 STEEL F<sub>y</sub>=60000 PSI.  
 3. BAR BENDING AND PLACEMENT TO COMPLY WITH LATEST ACI STANDARDS.  
 4. LIFTERS FOR HANDLING SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS AND RATED TO HANDLE THE WEIGHT.  
 5. METER BOX SHALL BE MODULAR; CONCRETE TO HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 4000 PSI.

**CONSTRUCTION KEY NOTES:**  
 A. No. 4 REBAR AT 8" ON CENTER, BOTH WAYS.  
 B. No. 4 REBAR AT 12" ON CENTER, BOTH WAYS (TOP LAYER).  
 C. No. 4 REBAR AT 8" ON CENTER, LONG SPAN (BOTTOM LAYER).  
 D. No. 5 REBAR AT 4 1/2" ON CENTER, SHORT SPAN (BOTTOM LAYER).  
 E. METER BOX FRAME (SEE DETAIL 302), INTEGRALLY CAST & CENTERED ON LID. SET FRAME SO COVER (SEE DETAIL 302) IS FLUSH WITH TOP SURFACE OF LID.

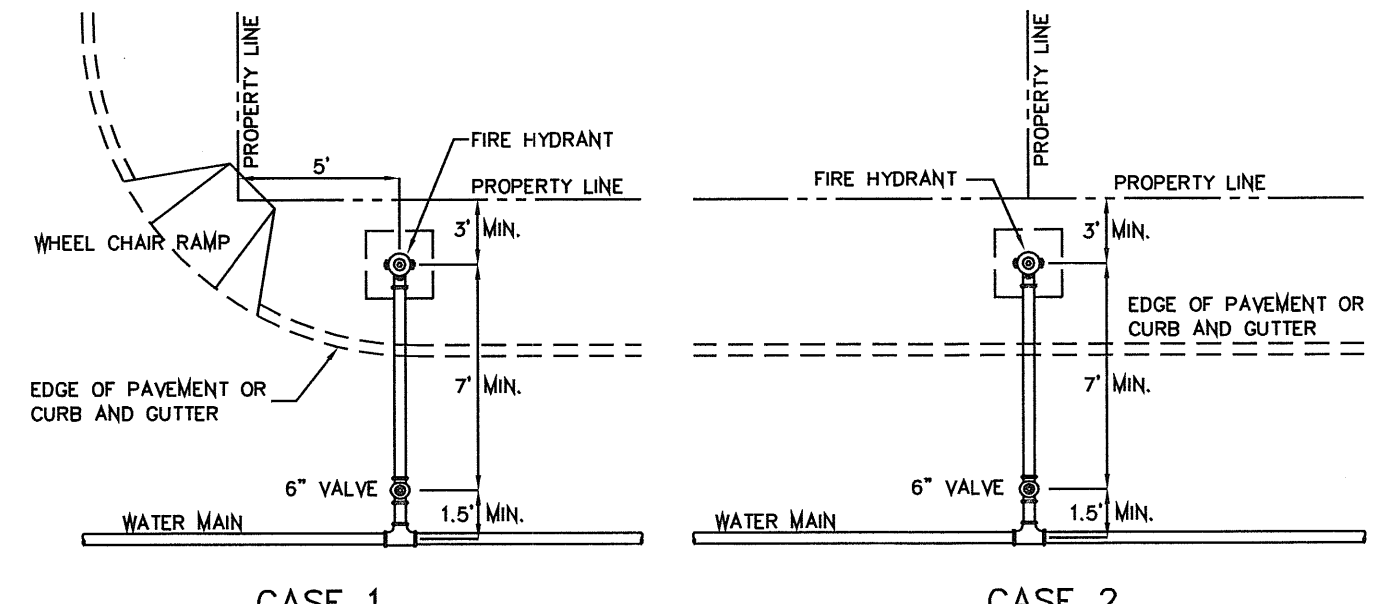
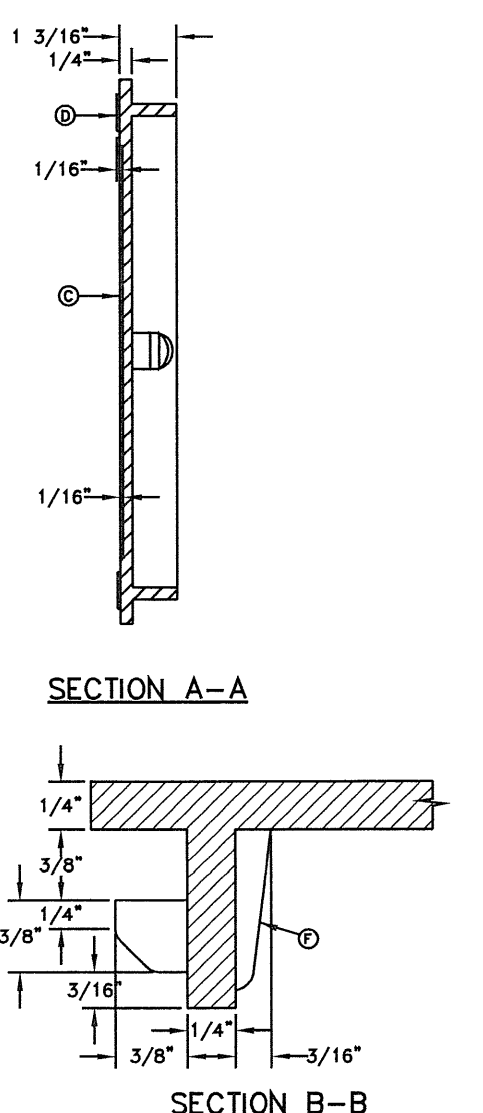
METER BOX TYPE "E" FOR 3" AND LARGER SERVICE INSTALLATION  
 N.T.S.  
**295-1**



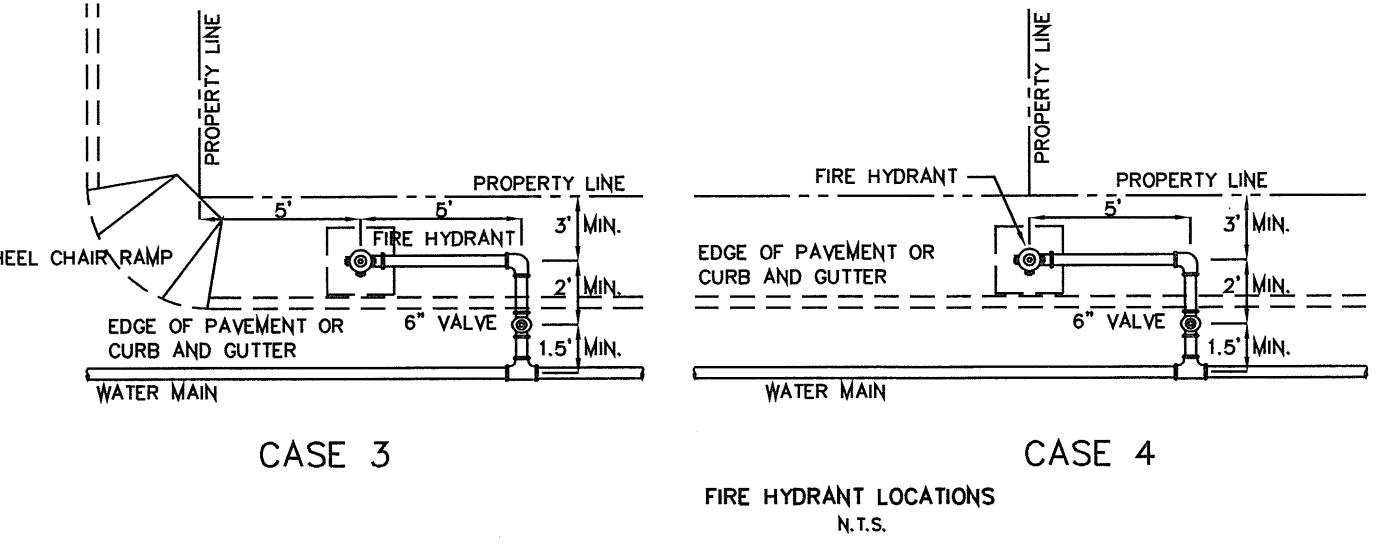
METER BOX TYPE "A" FOR 3/4" SERVICE INSTALLATION  
 N.T.S.  
**291**



METER BOX COVER FOR TYPE "A" & "B" METER BOXES  
 N.T.S.  
**301**

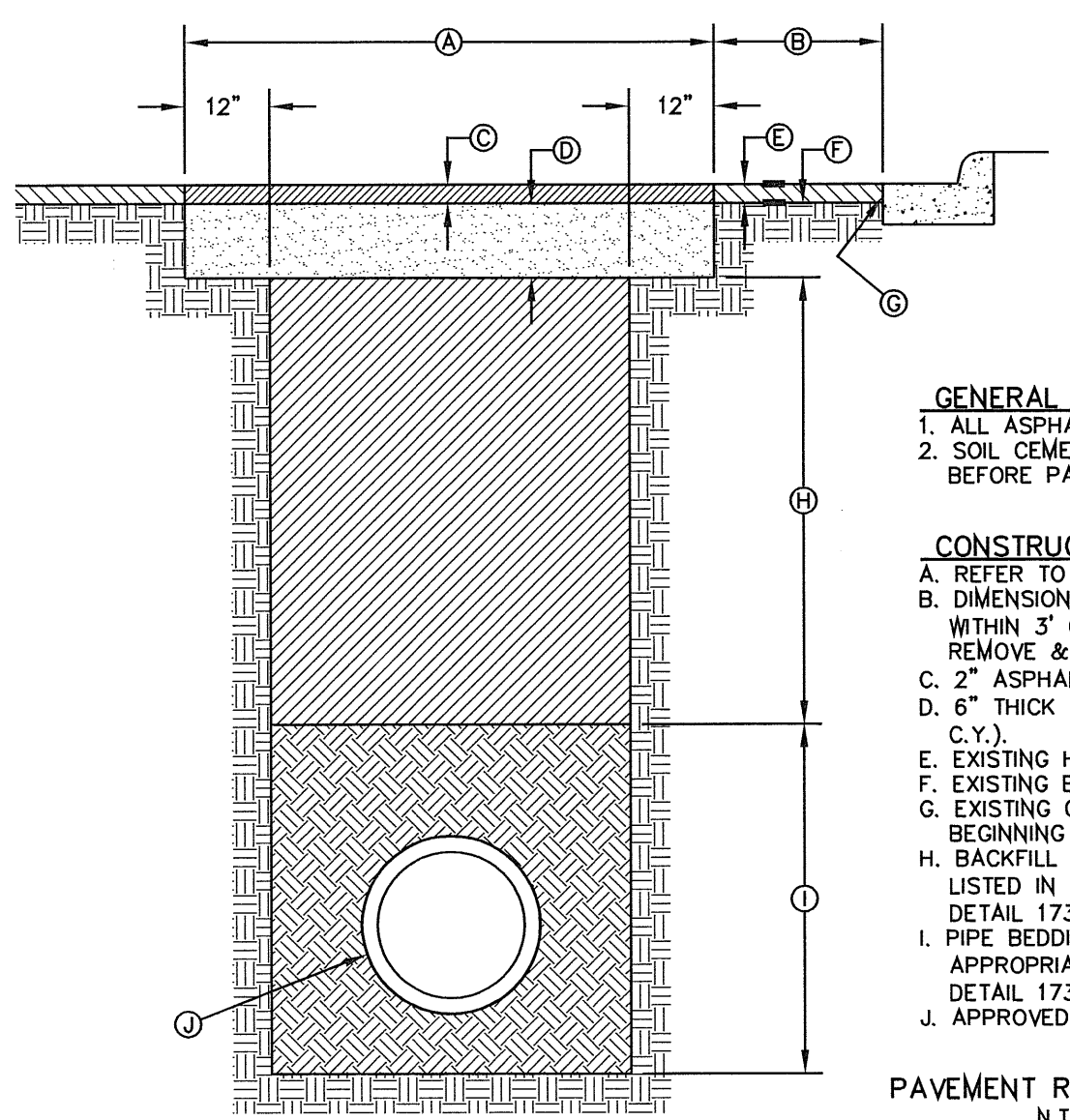


**STANDARD LOCATIONS**



**FIRE HYDRANT LOCATIONS**  
 N.T.S.

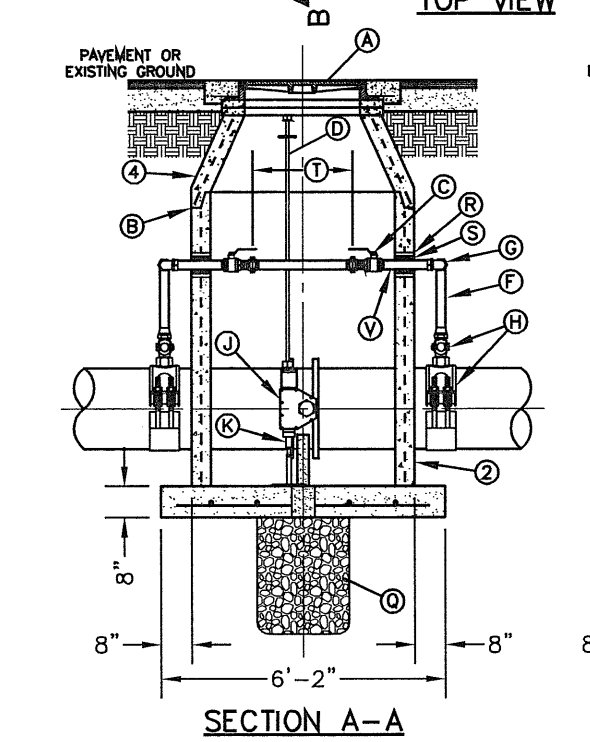
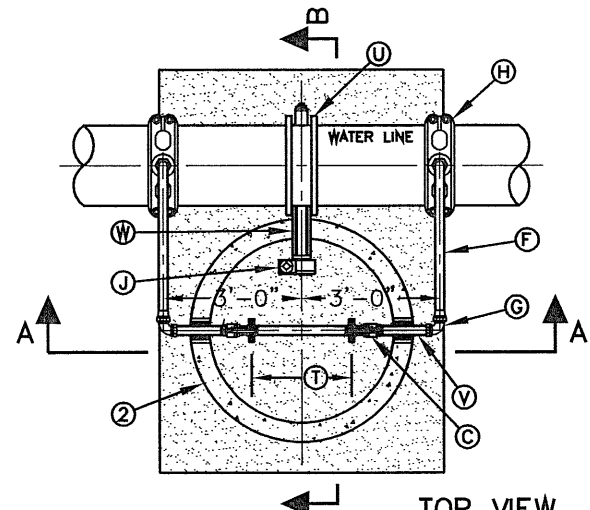
**GENERAL NOTES:**  
 1. FOR CASE 1 FIRE HYDRANT SHALL BE LOCATED AT A DISTANCE OF 5 FT. MINIMUM FROM THE PROPERTY LINE OR AT THE BEGINNING OF CURB RETURN.  
 2. FOR CASE 2 FIRE HYDRANT SHALL BE LOCATED AT THE PROPERTY LINE COMMON TO ADJOINING LOTS.  
 3. FOR CASE 3 AND 4 WHERE THE DISTANCE BETWEEN THE VALVE AND THE HYDRANT IS LESS THAN 7 FT. PLACE HYDRANT AS SHOWN.  
 4. FOR INSTALLATION OF FIRE HYDRANT SEE DETAIL 280-1 OR 280-2.  
 5. A MINIMUM CLEARANCE OF 3 FT. WILL BE MAINTAINED BETWEEN A FIRE HYDRANT AND A PERMANENT OBSTRUCTION (UTILITY POLE, LIGHT STANDARD, TRAFFIC SIGNAL, WHEEL CHAIR RAMP, FENCE PROTECTIVE POSTS, ETC.).  
 6. WHEN INSTALLATION IS WITHIN 1'0" RIGHT OF WAY, HYDRANT SHALL NOT BE PLACED IN SIDEWALK AREA OR ANY CLOSER THAN 5" FROM BACK OF CURB.



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

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

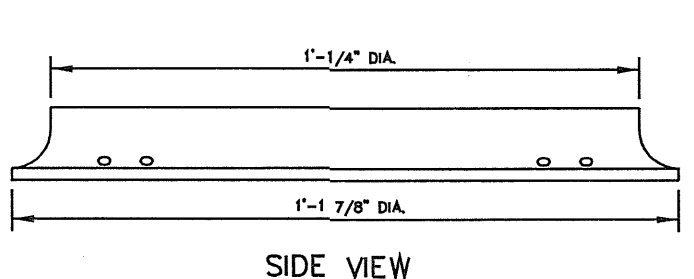
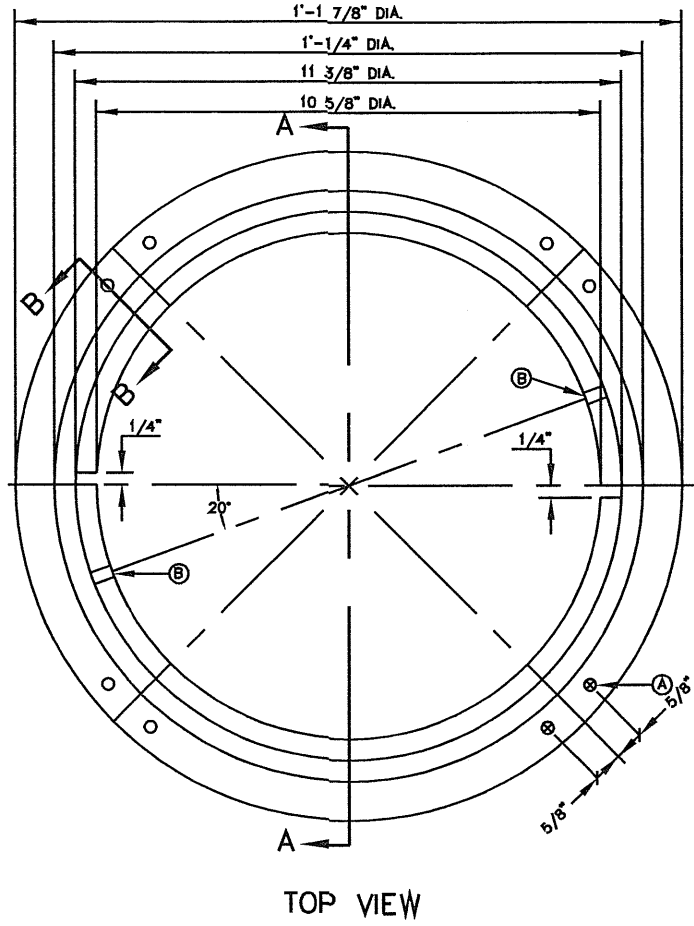
PAVEMENT REPLACEMENT  
 N.T.S.  
**179**



BUTTERFLY VALVE IN MANHOLE INSTALLATION FOR 16" AND 20" WATER LINES  
 N.T.S.  
**261-2**

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

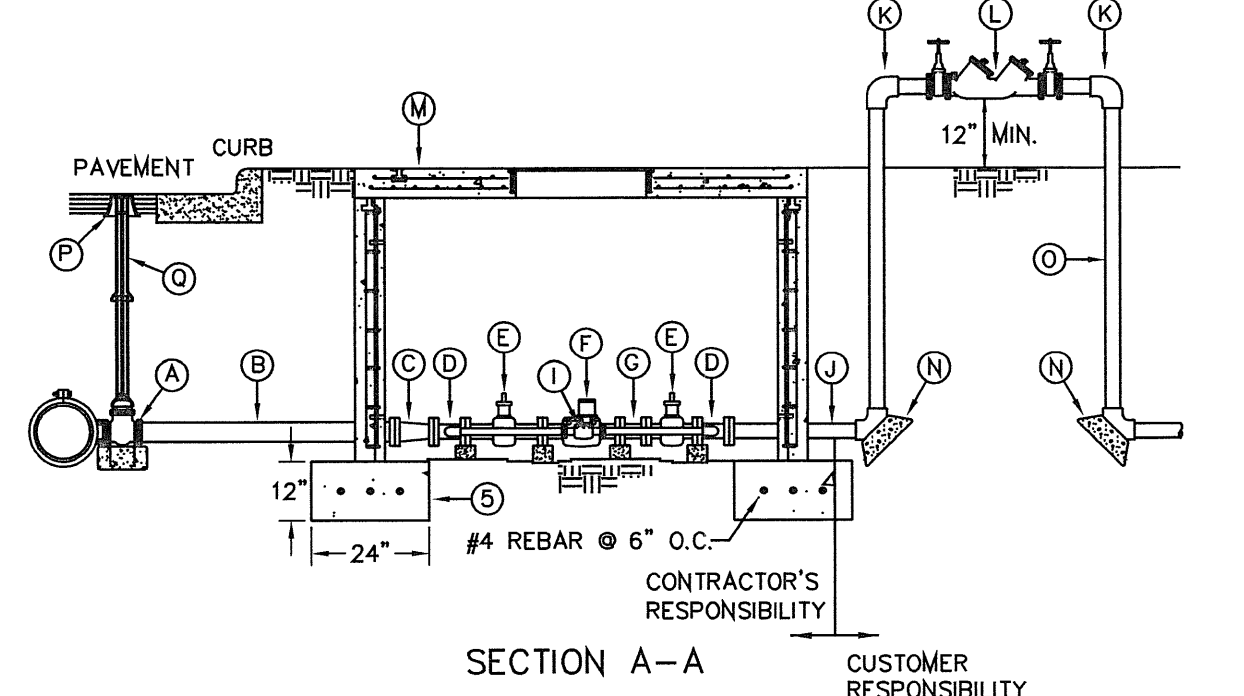
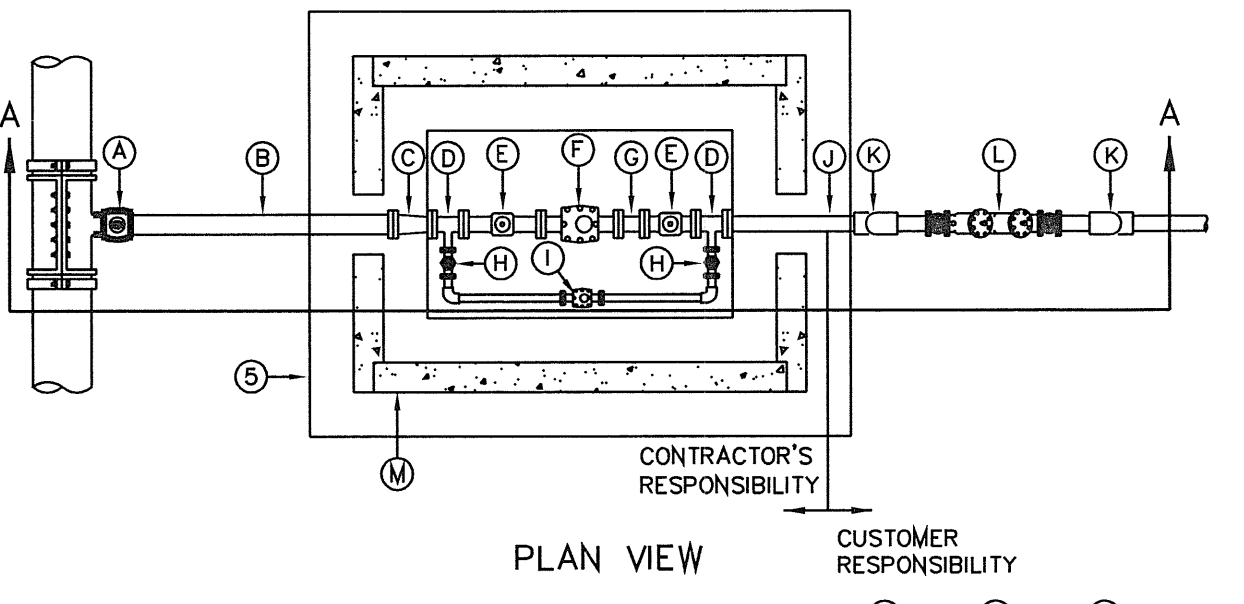
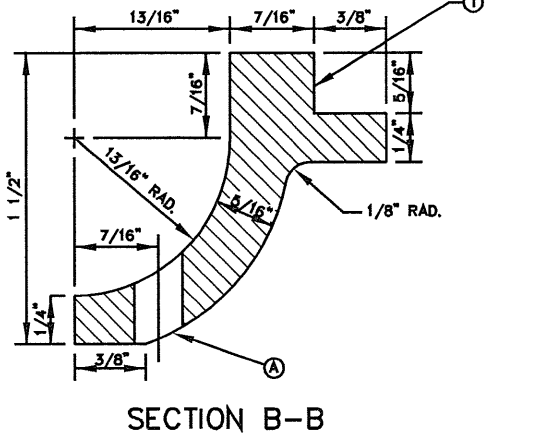
**CONSTRUCTION KEY NOTES:**  
 A. MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).  
 B. ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.  
 C. 2" BALL VALVE (NORMALLY CLOSED).  
 D. 1/4" DIAMETER SOLID STEEL EXTENSION STEM WITH SQUARE SOCKET ON BOTTOM TO FIT 2" SQUARE VALVE NUT AND 2" SQUARE OPERATOR NUT ON TOP.  
 E. ADJUSTABLE EXTENSION STEM GUIDE (AS PER DETAIL 261-3) @ 6" MAX. INTERVALS.  
 F. 2" COPPER PIPE (TYPE-K).  
 G. THREADED END TO FLARED END 90° ELBOW (TYP.).  
 H. 20"x22" OR 16"x22" SADDLE TAP WITH 2" CORPORATION STOP.  
 I. BUTTERFLY VALVE OPERATOR.  
 J. ADJUSTABLE SUPPORT OR APPROVED EQUAL.  
 K. 6" DIAMETER DRAIN HOLE FILLED WITH GRAVEL.  
 L. #5 @ 12" O.C.E.W. CONCRETE SUPPORT.  
 M. NOTCH MANHOLE SECTION FOR VALVE OPERATOR. FILL WITH BRICK AND MORTAR AFTER VALVE INSTALLATION.  
 N. 24" DIAMETER BY 2'-6" DEEP GRAVEL SUMP.  
 O. CEMENT GROUT.  
 P. 1" PREMOULDED ASPHALT EXPANSION JOINT.  
 Q. 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.  
 R. BUTTERFLY VALVE.  
 S. 2" BRASS NIPPLE PIECE (TYP.).  
 T. VALVE OPERATOR EXTENSION - 12" LONG.  
 U. FLARED END TO FLARED END 90° ELBOW (TYP.).



METER BOX RING FOR TYPE "A" & "B" METER BOXES  
 N.T.S.  
**300**

**GENERAL NOTES:**  
 1. MATCHING SURFACES TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.  
 2. CASTING TO BE SMOOTH AND VOID OF AIR HOLES.  
 3. METER BOX RING WEIGHT = 7 LBS.  
 4. METER BOX RING MADE OF CAST IRON.

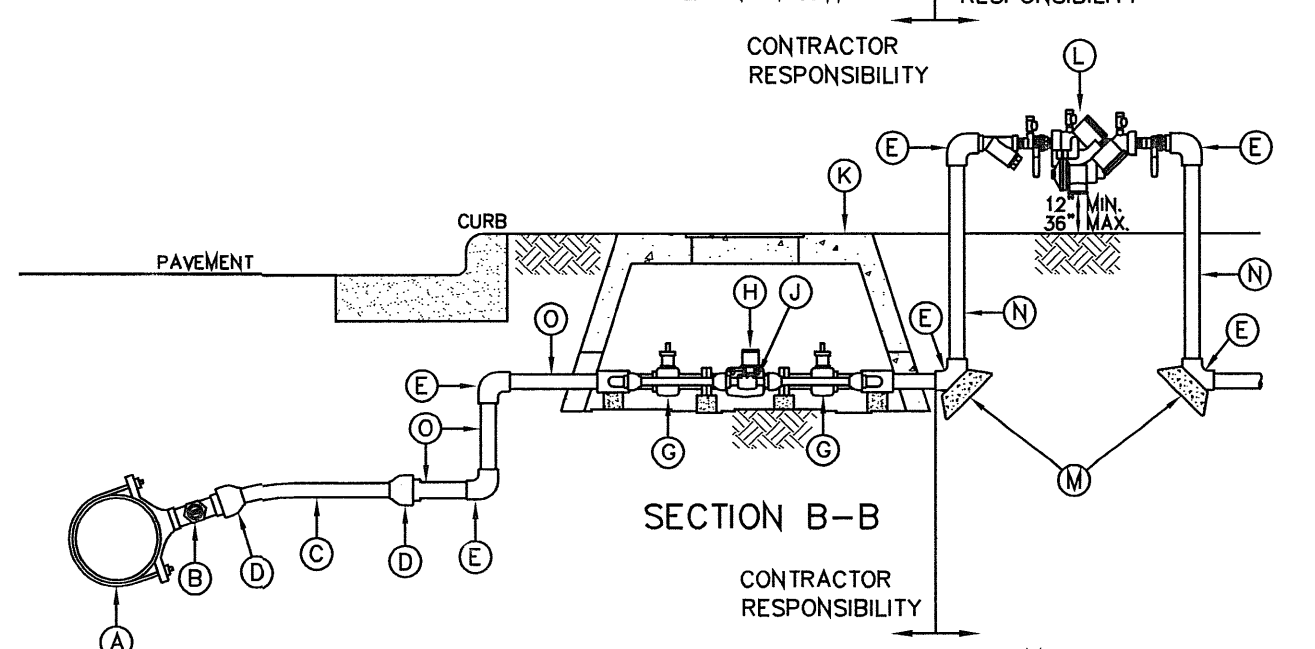
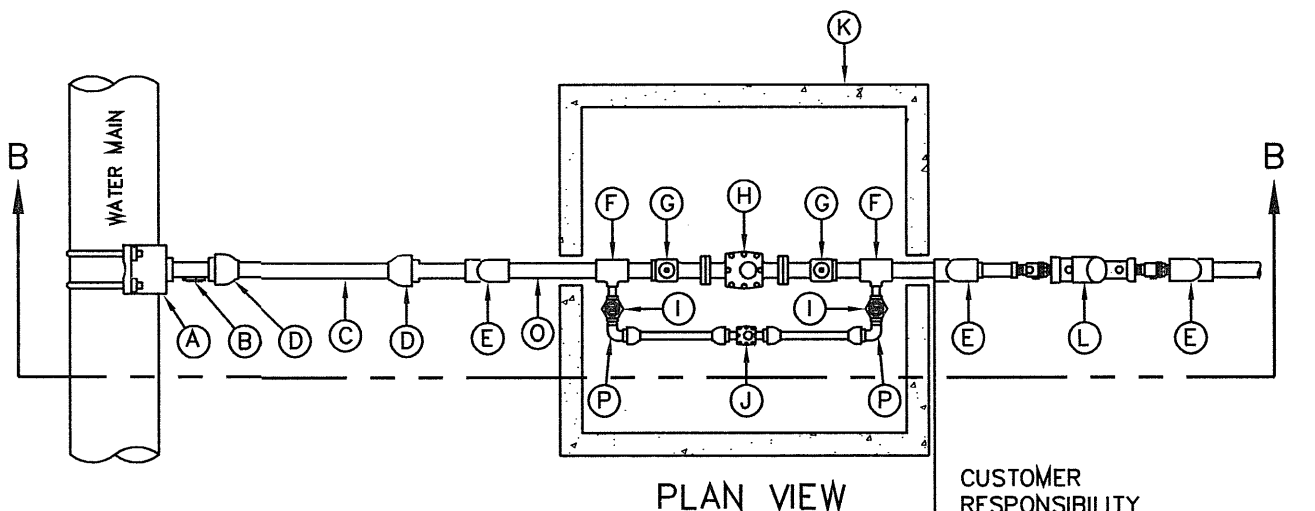
**CONSTRUCTION KEY NOTES:**  
 A. 1/2" DIAMETER HOLES FOR ANCHORING RING TO CONCRETE METER BOX.  
 B. LUG STOP.  
 C. LOCKING LUG SLIDE.



TYPICAL 3" & LARGER SERVICE LINE INSTALLATION BY CONTRACTOR  
 N.T.S.  
**261-2**

**GENERAL NOTES:**  
 1. DETAIL SHOWN FOR 3" SERVICE; INSTALLATION SIMILAR FOR LARGER SERVICES EXCEPT FOR SIZE OF PIPE, FITTINGS AND METER.  
 2. WHERE NO CURB EXISTS, METER IS TO BE SET NEAR PROPERTY LINE OR AT DESIGNATED LOCATION.  
 3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY PIPE, FITTINGS, AND METER BOXES REQUIRED. IT SHALL BE THE RESPONSIBILITY OF THE PRIVATE OWNER TO HAVE A CERTIFIED PLUMBER INSTALL A BACKFLOW PREVENTER AND EXTEND SERVICE LINE ON DISCHARGE SIDE OF METER.  
 4. THE EPWU WILL FURNISH THE METER, WHICH SHALL BE INSTALLED BY THE CONTRACTOR.  
 5. FOOTING REQUIRED WHEN PLACED UNDER EXISTING OR PROPOSED STREET PAVING.

**CONSTRUCTION KEY NOTES:**  
 A. 4" TAPPING SLEEVE AND VALVE  
 B. 4" P.V.C.  
 C. 4"x3" REDUCER  
 D. 3"x2" TEE  
 E. 3" GATE VALVE  
 F. 3" METER  
 G. 3" TEST PLUG D.I.P.  
 H. 2" GATE VALVE  
 I. 2" BY-PASS METER  
 J. 3" SPOOL D.I.P.  
 K. 3" BEND 90°  
 L. 3" BACKFLOW PREVENTER  
 M. STANDARD METER BOX TYPE "D"  
 N. THRUST BLOCKING AS REQUIRED  
 O. 3" FLANGED D.I.P. - LENGTH AS REQUIRED  
 P. BONNET BOX AND COVER IN ACCORDANCE WITH DET 269.  
 Q. PIPE AS PER EPWU STANDARD DET 260.



SERVICE LINE 1 1/2" AND 2" INSTALLATION BY CONTRACTOR  
 N.T.S.  
**290-5**

**GENERAL NOTES:**  
 1. DETAIL SHOWN FOR 1 1/2" SERVICE; INSTALLATION SIMILAR FOR 2" SERVICE EXCEPT FOR SIZES OF PIPE, FITTINGS, METER AND METER BOX. WHEN SPECIFIED A 1" BY-PASS METER SHALL BE INSTALLED WITH A 1 1/2" SERVICE. A 2" SERVICE SHALL INCLUDE A 1" BY-PASS METER.  
 2. WHERE NO CURB EXISTS, METER IS TO BE SET NEAR PROPERTY LINE OR AT DESIGNATED LOCATION.  
 3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY PIPE, FITTINGS, AND METER BOXES REQUIRED. IT SHALL BE THE RESPONSIBILITY OF THE PRIVATE OWNER TO HAVE A CERTIFIED PLUMBER INSTALL A BACKFLOW PREVENTER AND EXTEND SERVICE LINE ON DISCHARGE SIDE OF METER.  
 4. THE EPWU WILL FURNISH AND INSTALL THE METER.

**CONSTRUCTION KEY NOTES:**  
 A. SERVICE SADDLE  
 B. 1 1/2" TAP WITH CORPORATION STOP  
 C. 1 1/2" COPPER PIPE FOR 1 1/2" & 2" SERVICE INSTALLATIONS. ALL PIPING SHALL BE COPPER AND ALL FITTINGS SHALL BE BRONZE UNLESS OTHERWISE SPECIFIED.  
 D. 1 1/2" FLARED CONNECTION  
 E. 1 1/2" FEMALE THREADED 90° ELBOW  
 F. 1 1/2" FEMALE THREADED TEE  
 G. 1 1/2" FLANGED BY FEMALE THREADED GATE VALVE  
 H. 1 1/2" TURBINE METER  
 I. 1" FEMALE THREADED CURB VALVE  
 J. 1" BY-PASS METER  
 K. METER BOX TYPE "C" (SEE DETAIL 293) FOR 1 1/2" OR TYPE "D" (SEE DETAIL 294) FOR 2".  
 L. 1 1/2" BACKFLOW PREVENTER WHEN REQUIRED BY EPWU  
 M. THRUST BLOCKING AS REQUIRED  
 N. 1 1/2" BRASS PIPE-LENGTH AS REQUIRED  
 O. 1 1/2" THREADED NIPPLE  
 P. 1 1/2" FLARED BY MALE THREADED 90° ELBOW

EL PASO WATER UTILITY  
 DETAILS NUMBERS:  
 170, 179, 282, 291, 295-1, 300,  
 301, 261-2

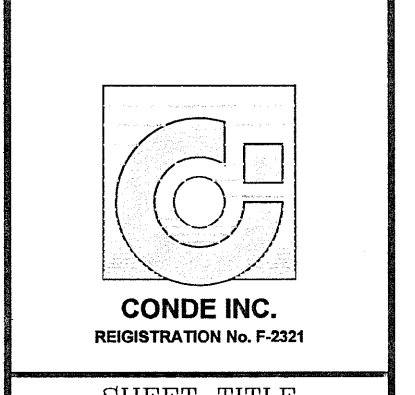
BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LANE	ELEVATION 4017.47
DATE	REVISIONS	BY
10/3/11	REVISIONS AS PER 8/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.

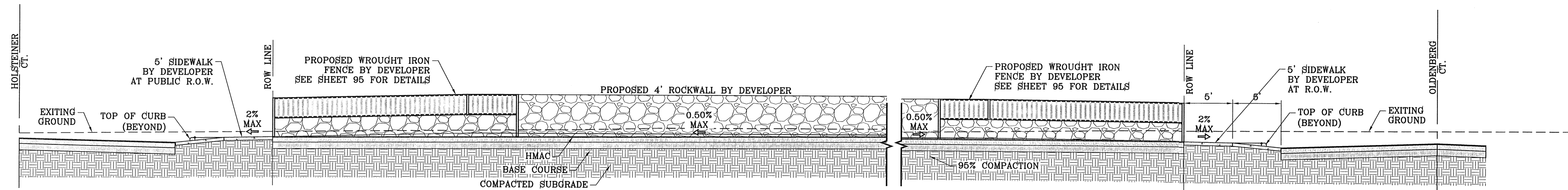
PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO., SURVEYS, CITY OF EL PASO, COUNTY OF EL PASO, TEXAS CONTAINING: 168.854± ACRES

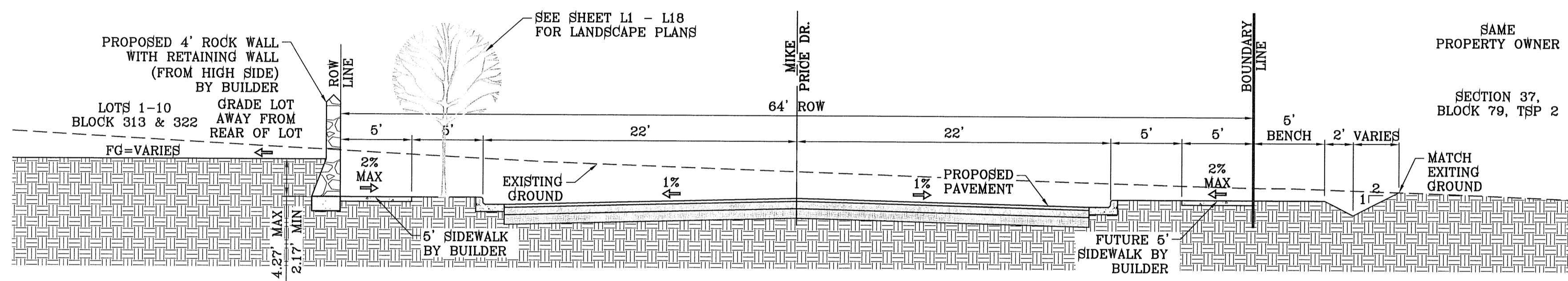
ENGINEER'S SEAL  
 ENGINEER'S SEAL NOT REQUIRED.  
 DATE: MAY 2012  
 DESIGN BY: LH  
 INITIATED BY: OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

CONDE INC.  
 ENGINEERING / PLANNING / SURVEYING / GPS  
 6080 SURETY DR. SITE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 682-0286

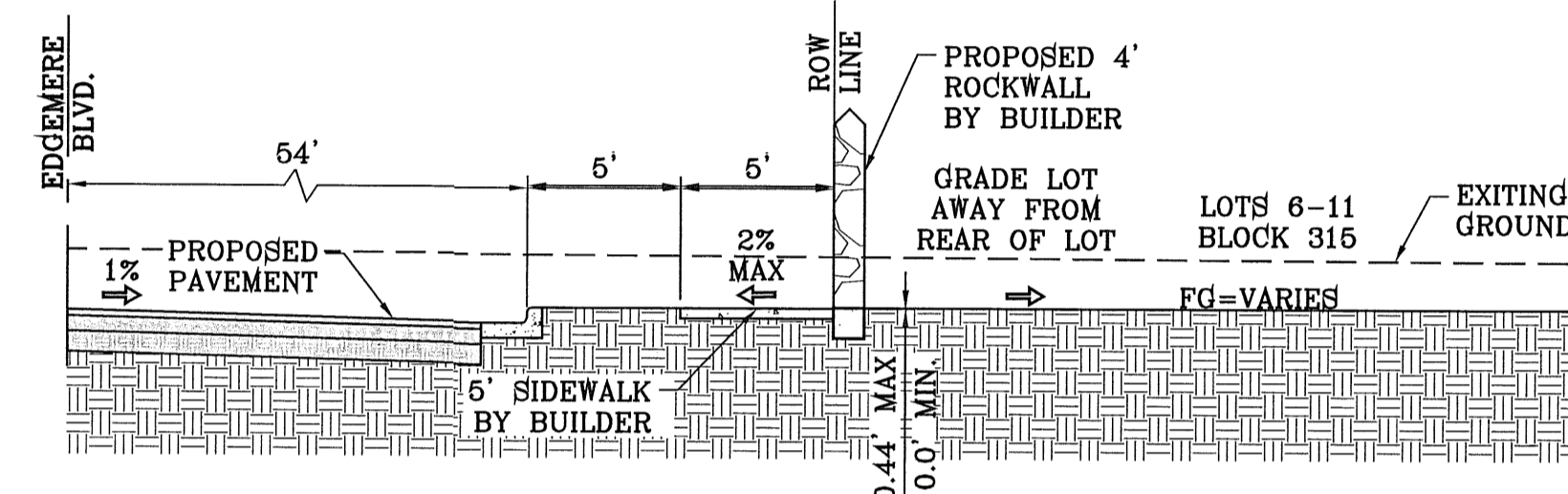




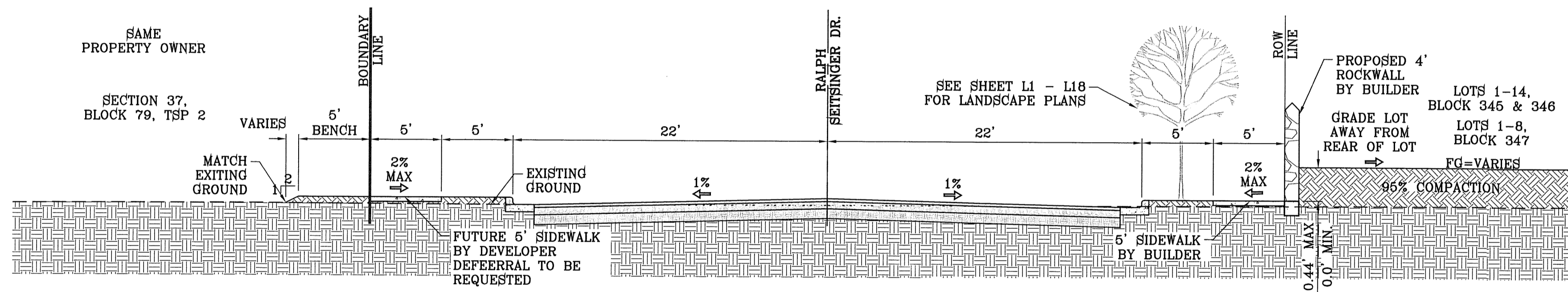
SECTION K  
20' R.O.W.  
SCALE: 1"=6'



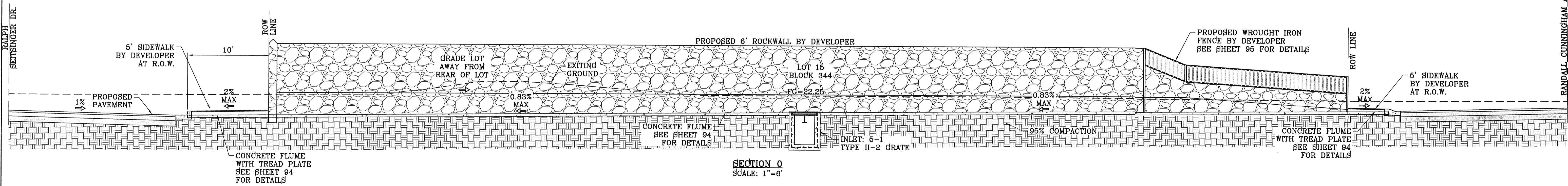
SECTION L  
SCALE: 1"=6'



SECTION M  
SCALE: 1"=6'



SECTION N  
SCALE: 1"=6'



SECTION O  
SCALE: 1"=6'

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE	REVISIONS	BY	O.M.
10/3/11	REVISIONS AS PER 9/24/11 REDLINES		
11/1/11	REVISIONS AS PER 10/19/11 REDLINES		

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

S C A L E

HORIZ: AS NOTED

VERT: ---

DATE: MAY 2012

DESIGN BY: YC

INITIATED BY: BFG/OM

CHECKED BY: YC

JOB NO.: 1110-18

ENGINEER'S SEAL

STATE OF TEXAS

YOUNG & RUBICAM

64448

64448

64448

CONDE INC.

ENGINEERING / PLANNING SURVEYING / GFS

6080 SURETY DR. STE 100 EL PASO, TEXAS 79905

PHONE: (915) 592-0283

FAX: (915) 592-0286

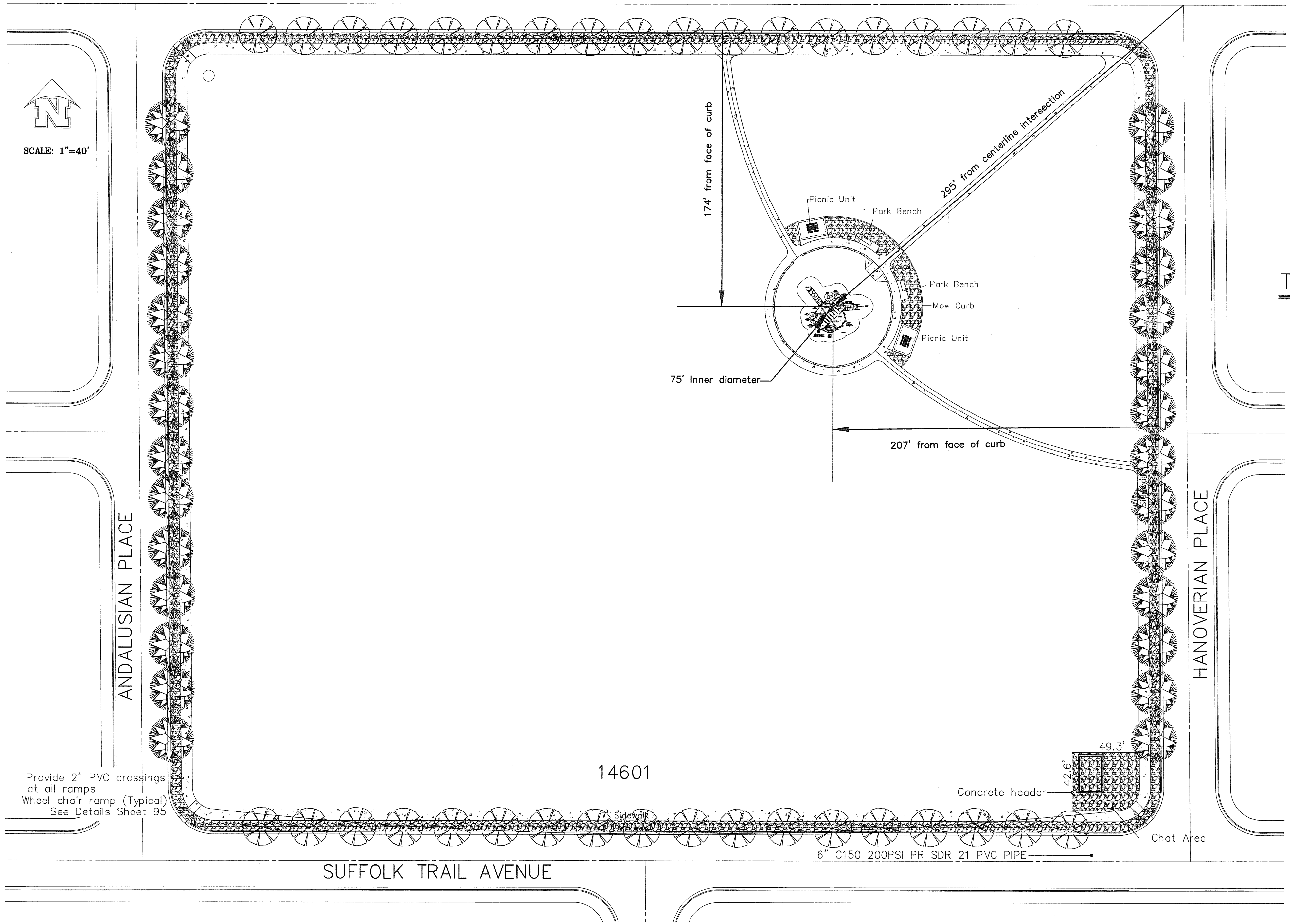
SHEET TITLE

**GRADING SECTIONS**



HACKNEY TRAIL AVENUE

SCALE: 1"=40'

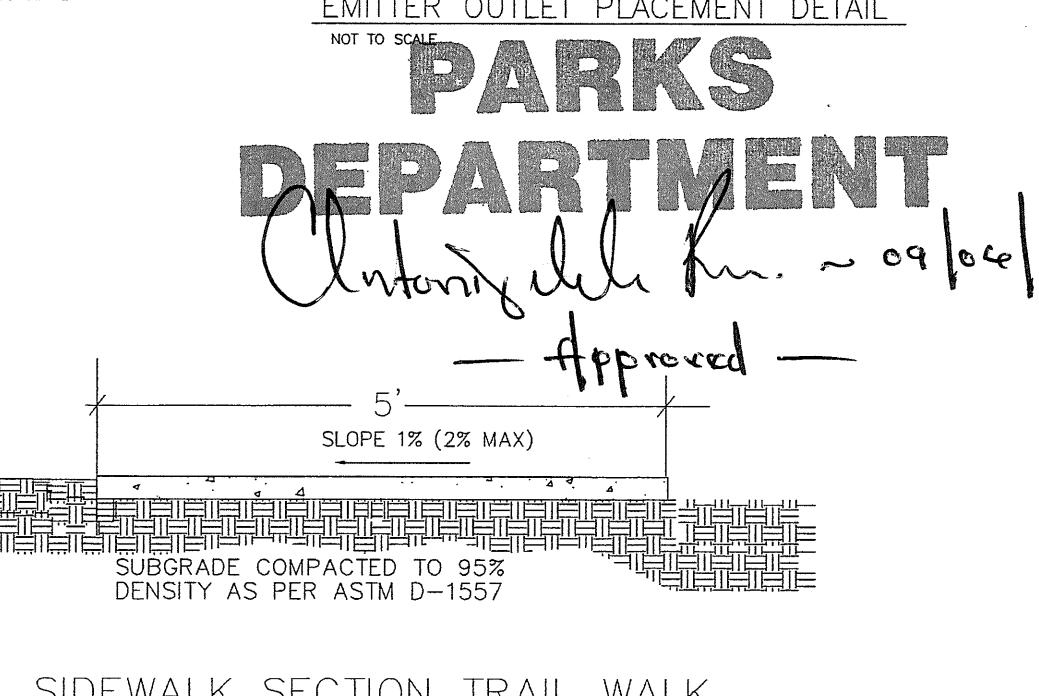
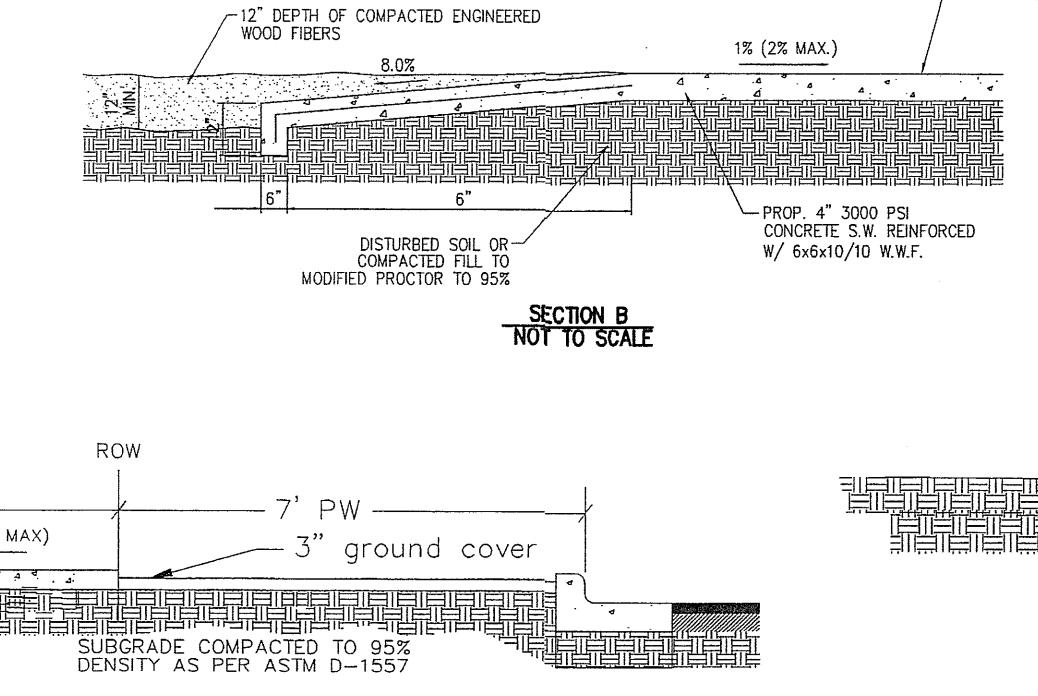
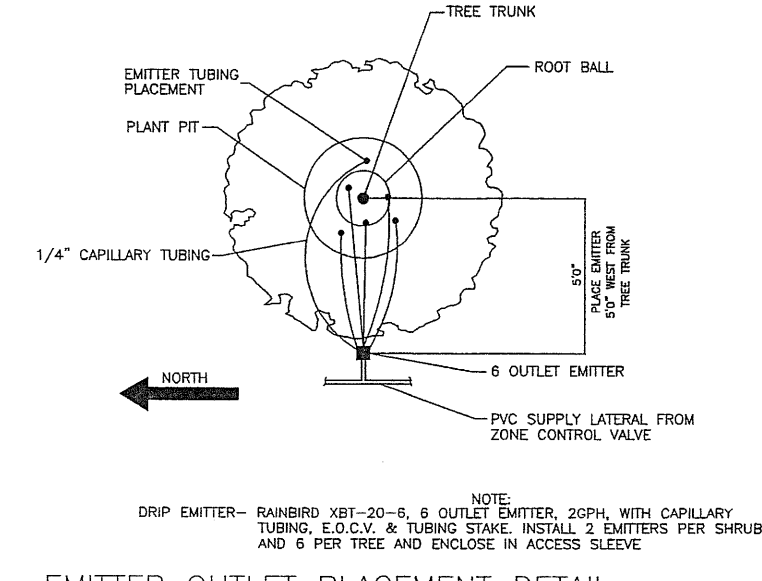
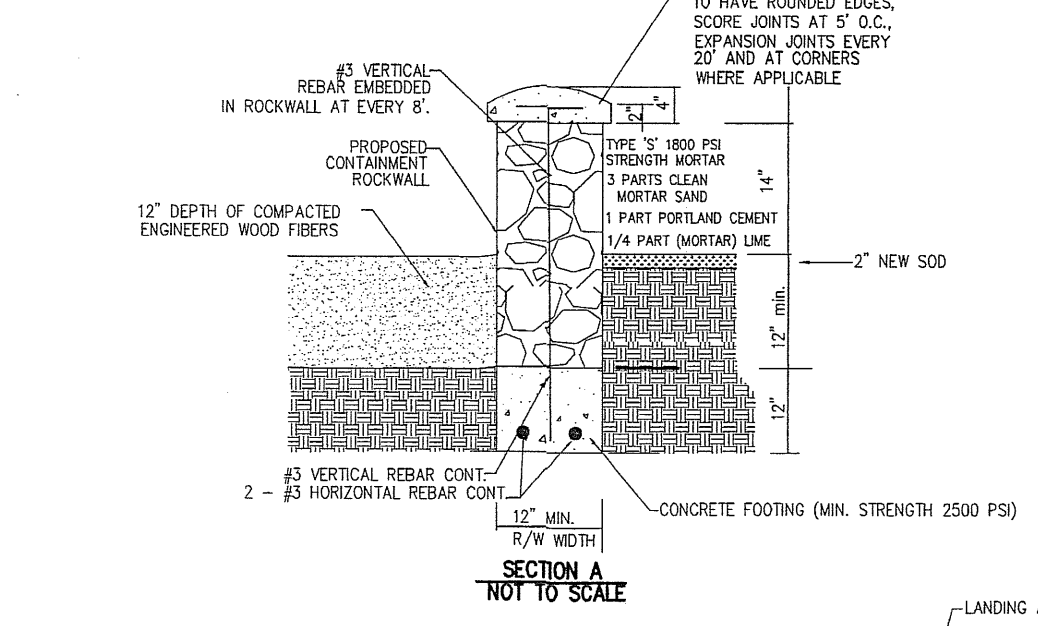
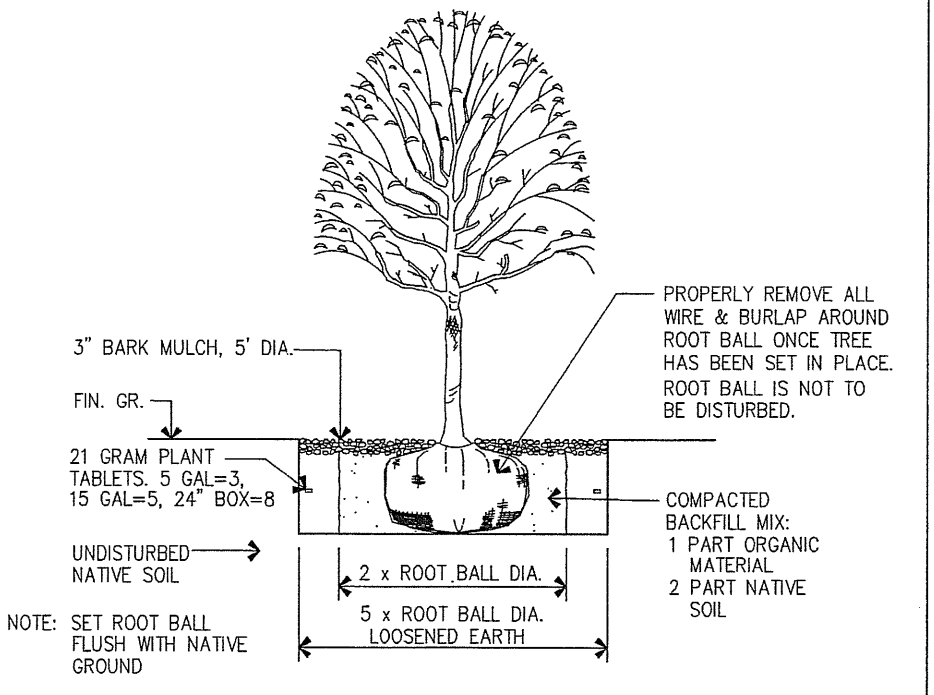
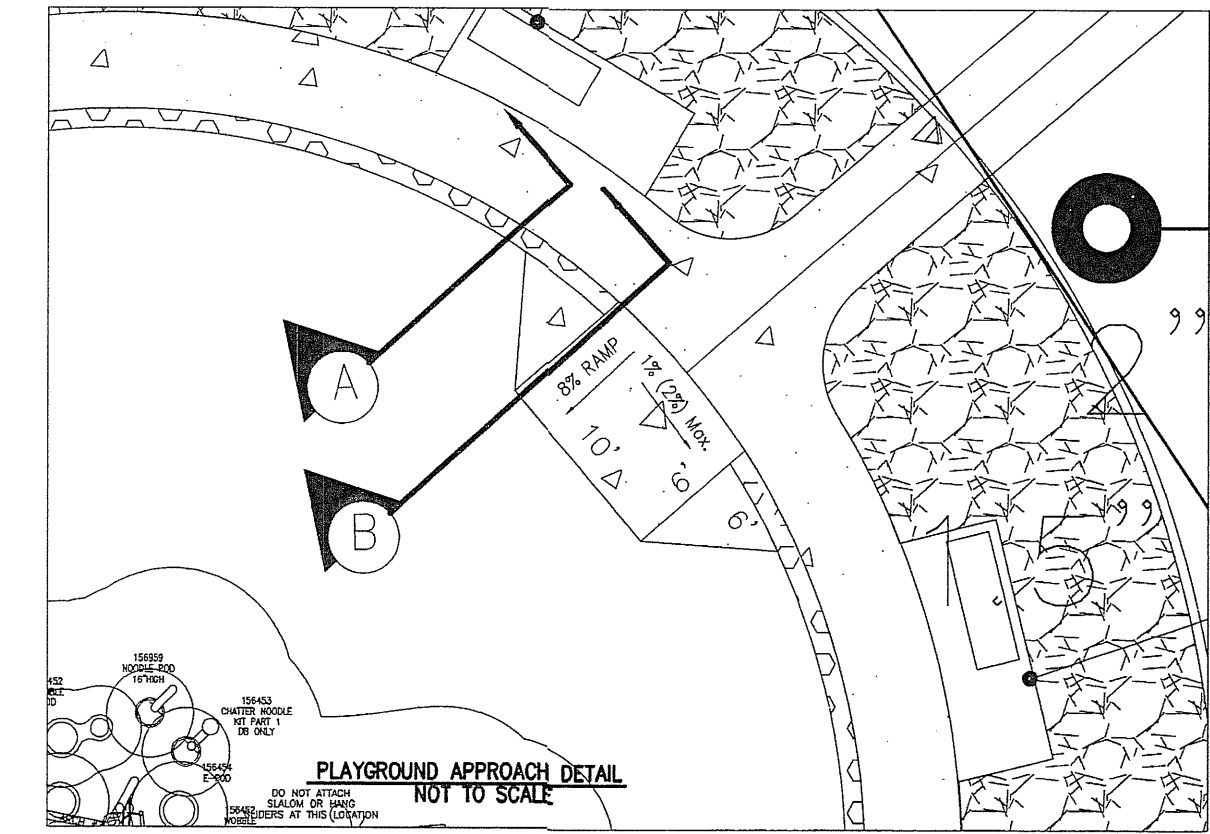


PLANT SCHEDULE									
SYM.	TYPE	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	HT.	WT.	FORM	DESCRIPTION
(Symbol)		28	FAN TEX ASH	FRAXINUS VELUTINA	2"	10'		TREE	DECIDUOUS
(Symbol)		36	RAYWOOD ASH	FRAXINUS OXYCARPA	2"	10'		TREE	DECIDUOUS

GROUND COVERS			
(Symbol)	CONCRETE WALK (18,150 SQ. FT.)		GROUND COVER
(Symbol)	1 1/4" PADRE CANYON ROCK OR EQUAL ON NON-WOVEN POLYPROPYLENE WEED BARRIER (15,900 SQ. FT.)	3 INCHES THICK	GROUND COVER
LANDSCAPE STRUCTURES DESIGN NO. 3459 SEE ATTACHED SHEET			
(Symbol)	2 PARK BENCH WABASH VALLEY 6' BENCH - IN GROUND - PRESTIGE MODEL #PP301 W/SC202 MOUNTING PLATE COVERS		
(Symbol)	2 PICNIC UNIT WABASH VALLEY 7' ADA - ACCESSIBLE IN GROUND SPYDER MODEL #S1225 W/MC104 MOUNTING PLATE COVERS		

TREES, SHRUBS AND GROUND COVERS

1. Provide plant materials record drawings
2. The contractor shall coordinate the construction activities with Parks department.
3. Identify field changes of trees, plants and shrubs on final asbuilt drawing.
4. A complete list of plants, including sizes, quantity, and other requirements to be shown on drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.
5. The irrigation system will be installed prior to planting. Locate and maintain the irrigation system during planting operations. Repair irrigation system components, damaged during planting operation, at Contractor's expense.
6. Warranty plant material to remain alive and be in healthy, vigorous condition for a period of 1 year after acceptance.
7. Warranty shall not include damage or loss of trees, plants, or ground covers caused by fires, floods, freezing, rains, lightning storms, or winds over 75 miles per hour, winter kill caused by extreme cold and severe winter conditions not typical of planting area; acts of vandalism or negligence on the part of the Owner.
8. Refer to Sodding Specification of the Parks Design and Construction Standards for soil preparation and testing requirements. Sodding specs should address description, quality assurance, submittals, deliver, storage, handling, project conditions, warranty materials, inspection, preparation, installation, maintenance, and acceptance of sodded lawns.



- NOTES:
1. CONCRETE SIDEWALK SHALL BE 3000 P.S.I. MINIMUM AND 4" THICK.
  2. DUMMY JOINTS AT 7' ON CENTER FOR SIDEWALK.
  3. EXPANSION MATERIAL REQUIRED AT 21" O.C. FOR SIDEWALKS WITH 1/2" PREMOULDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.

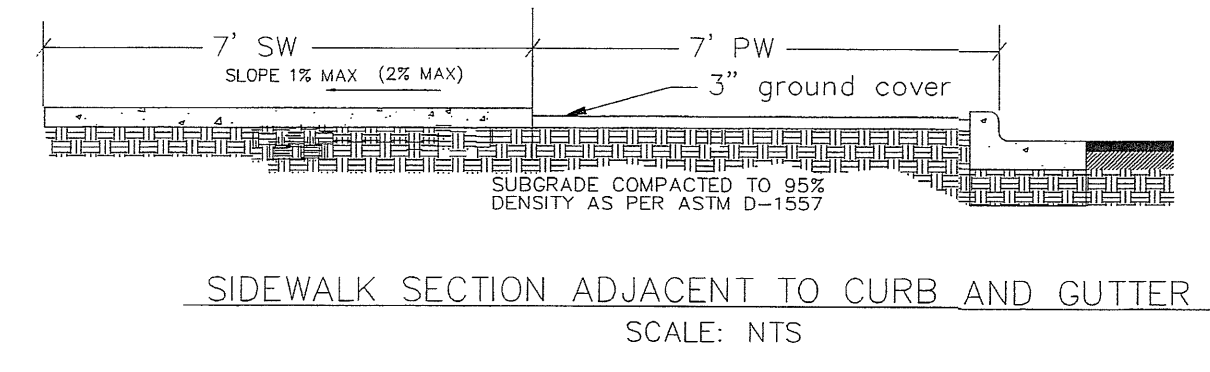
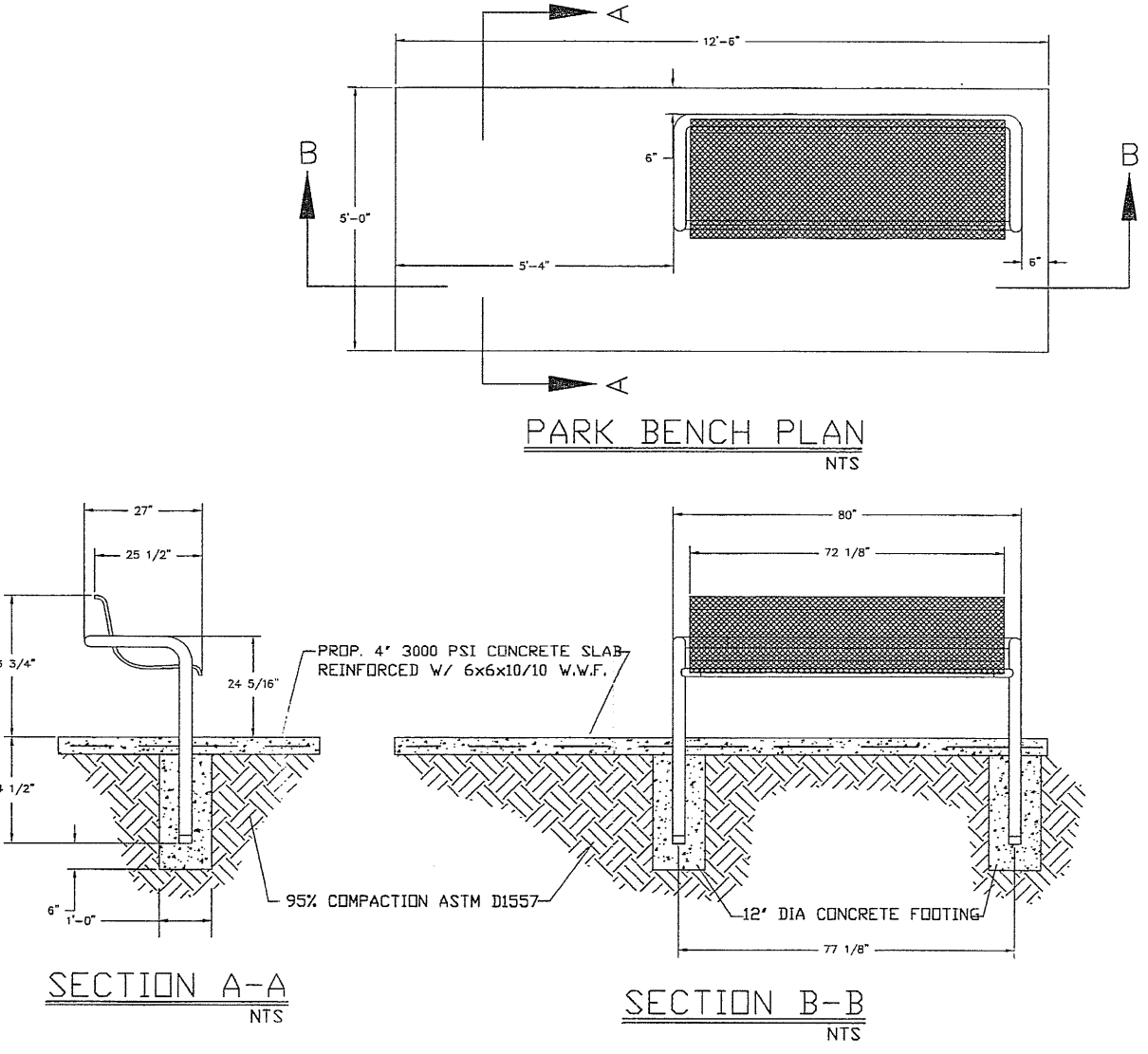
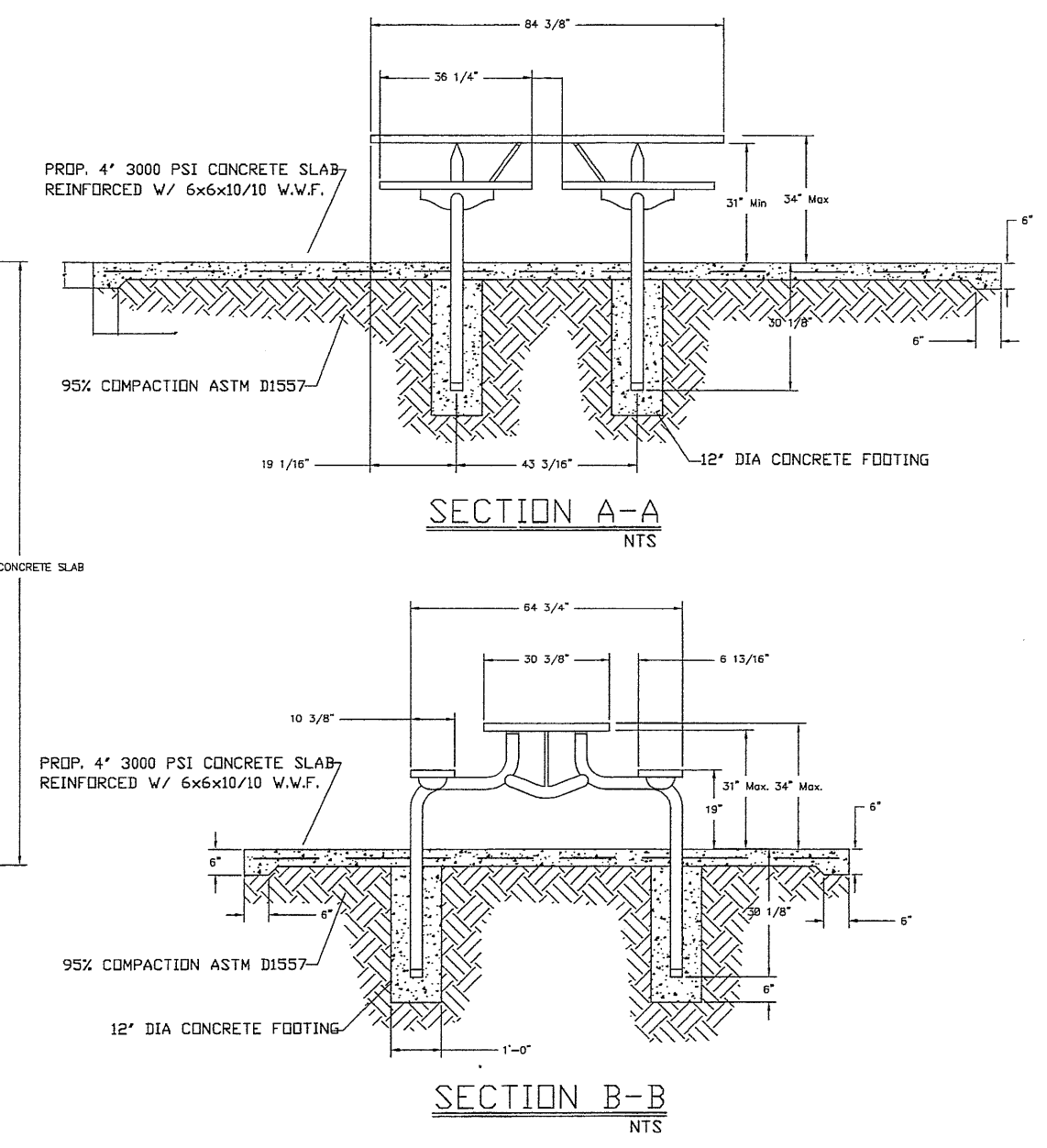
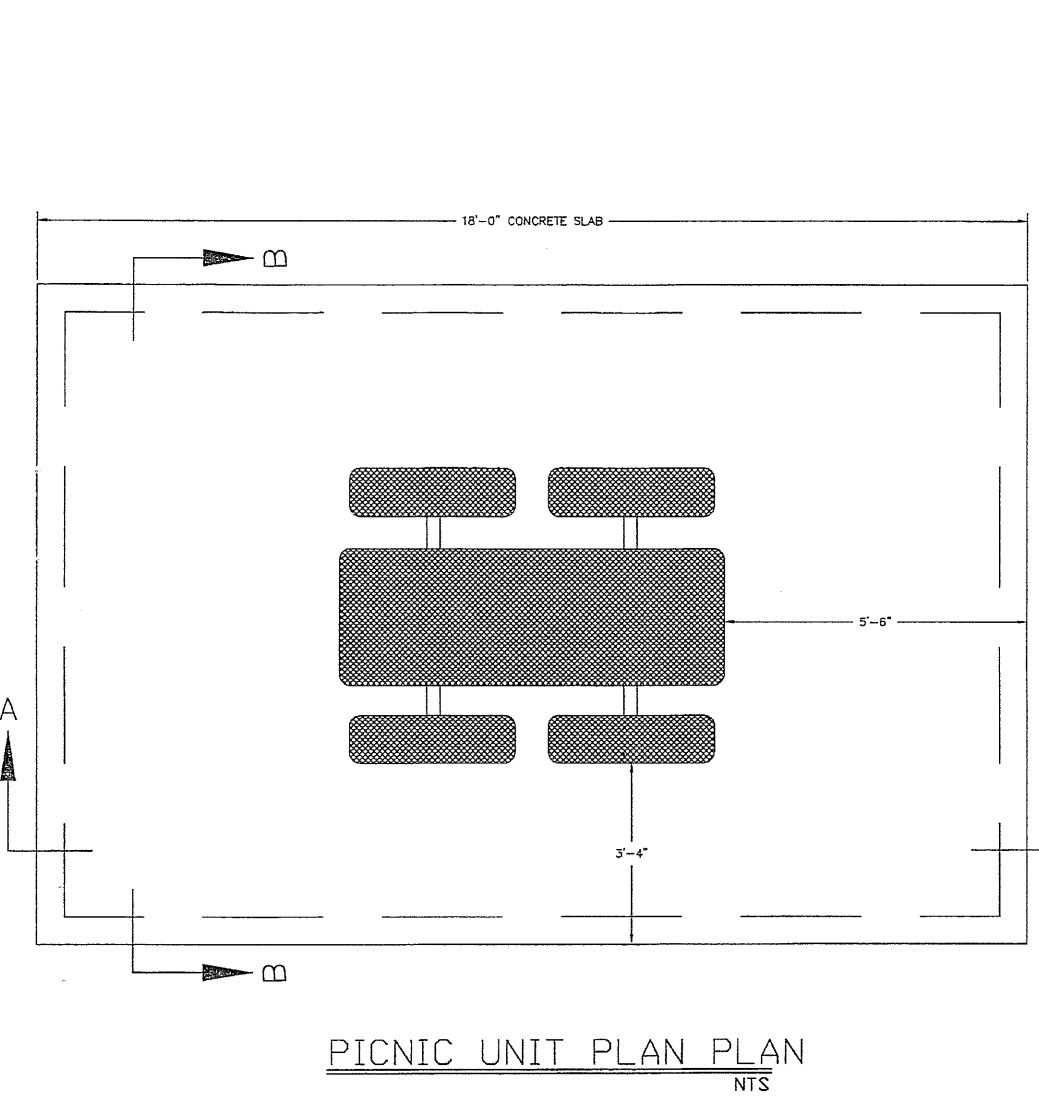
- NOTES:
1. CONCRETE SIDEWALK SHALL BE 3000 P.S.I. MINIMUM AND 4" THICK.
  2. DUMMY JOINTS AT 5' ON CENTER FOR SIDEWALK.
  3. EXPANSION MATERIAL REQUIRED AT 20" O.C. FOR SIDEWALKS WITH 1/2" PREMOULDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.

NOTE: ENGINEER TO REGISTER PROJECT WITH TEXAS DEPARTMENT OF LICENSING AND REGULATIONS.

Provide 2" PVC crossings at all ramps  
Wheel chair ramp (Typical)  
See Details Sheet 95

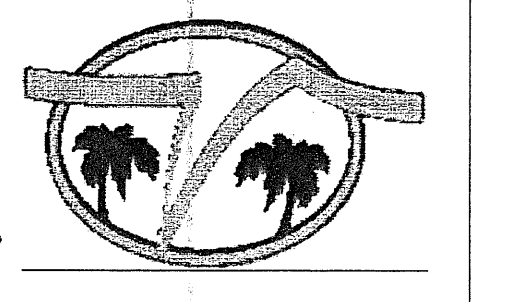
14601

SUFFOLK TRAIL AVENUE



PARK (302,628 S.F.)  
14601 SUFFOLK TRAIL AVENUE  
LOT 1, BLOCK 333  
TIERRA DEL ESTE UNIT 67

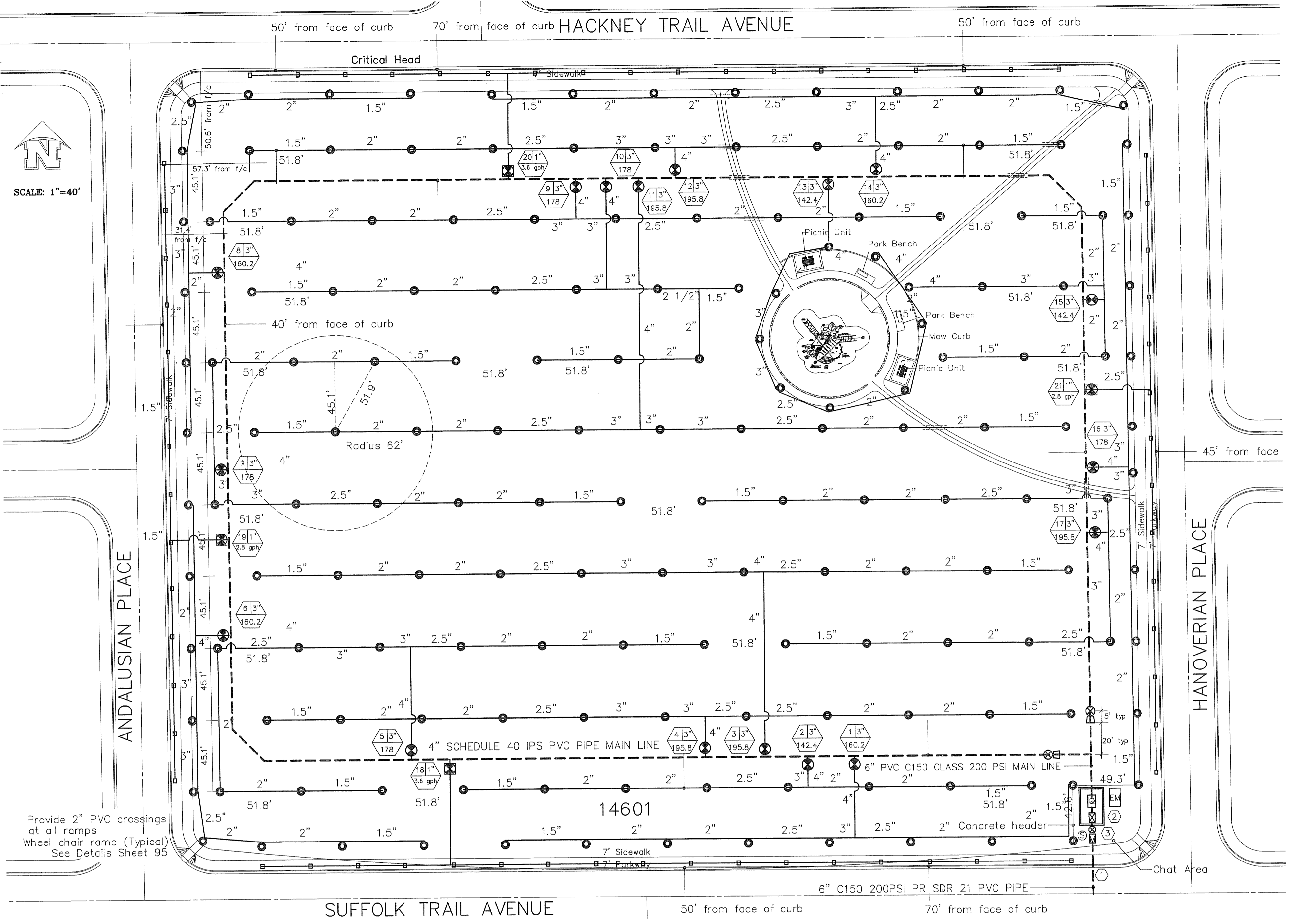
DOUBLE V ENTERPRISES  
8104 STAR AVENUE  
EL PASO, TX 79907  
(915) 858-7515



LANDSCAPE IRRIGATION  
Drawn/Design by:  
Design/Checked by: RV  
PROJECT:  
TDE67LI20110601  
PHASE:  
PRELIM-FINAL

Sheet no.  
1-1  
Sheet no. 1 of 6

**PARKS DEPARTMENT**  
Antonio del Rio - 09/06/2012  
Approved



GENERAL NOTES

- Contractor shall contact all utility companies & Park Dept. before any trenching operation, to locate and mark their lines in the area of work.
- Electrical wire splices will not be permitted between controller and valves, all connections will be permitted in valve boxes only. No splices will be buried.
- All manual valves shall be placed in valve boxes, placed at proper depth in relation to finish grade.
- All electrical valves shall be installed in plastic valve boxes with locking covers. Valve boxes shall be manufactured by Carson Industries, model series 1419 box with 1419-28 hinged cover, bolt down.
- Actual conditions in the field may necessitate adding or adjusting heads to insure uniform coverage and distribution, contractor shall be responsible for field changes with Landscape Designer, Licensed Irrigator and Parks Dept.
- Contractor will not willfully install the irrigation system as designed, when it is obvious that field conditions exist that were not considered at time of designing the system. Any conditions noted as such shall be reported to the Landscape Designer, Licensed Irrigator and Parks Dept. if the contractor fails to do so, the contractor assumes full responsibility for any corrections needed.
- All valves shall be tagged with a waterproof tag at each valve showing valve number and controller number as shown on plan. Label all wiring at controllers and panels.
- Location of drip emitters shall be installed exactly as shown on plans. Piping and valves are diagrammatically shown and may vary with approval from Landscape Designer, Licensed Irrigator and Parks Dept.
- All access boxes for drip emitters shall be installed flush with grade.
- All access boxes, valve boxes and sprinkler heads along walkways within interior grounds of the site shall be installed min. 6" from the edge of all walkways to the back of the sprinkler head or valve box.
- Meter shown within right-of-way for clarity only.
- Each irrigation controller shall have an independent common wire of any other irrigation controller.
- All trenching shall be a 10'-6" min. distance from the center of the trunk of any tree.
- Drip distribution tubing shall be placed in a circular pattern around the trunk of each tree, min. 24" from the trunk. Use 1/4" tubing stake at each tube to hold the end of the tubing in place.
- All unsuitable excavated materials from trenches shall be removed from the project site. Approved backfill shall be used to backfill trenches.
- Contractor shall verify the exact location of all existing and proposed utilities and all site conditions prior to beginning construction. Any damage caused by the Contractor shall be repaired or replaced at no additional cost to owner.
- Locate all heads and valves away from low spots or areas of drainage flow.
- Electric control wire (#14 gauge) and common ground (#12 gauge) shall be direct buried, color coded and all connections shall be waterproofed. Provide expansion coils at all valves and 200' on center maximum. Provide separate common wire for each controller. No splicing will be permitted between valve and controller.
- All piping/wiring running beneath paved surfaces (driveways, sidewalks, etc.) shall be installed in Class 200 PVC sleeves. Sleeves shall be of the size so that the inside diameter of the sleeve is 2 times greater than that of the outer diameter of the item installed to be sleeved.
- Sleeves must extend 24" beyond edge of paved or concrete surfaces and ends wrapped and taped with 4 mil plastic.
- Contractor shall fine tune and adjust the irrigation system so that no water/spray will run onto street, walks, or hit any building, walls, etc. This shall include adjusting heads, nozzles, spray arcs, radius, etc.
- Contractor shall provide the owner with as-built drawings on mylar prior to approval of final payment.
- Use only Loeco fitting on all 45's and tees.
- Remove non-biodegradable netting from sod during installation.

IRRIGATION NOTES

- Testing:
  - Pressure Test Main Line - after all main line piping, related work and installation of all irrigation remote control valves is completed for a period of 24-hours. Test main water line at 50 psi above static pressure of design pressure, based on highest value with a maximum loss of 1% to pass. Water main must be pressurized hydraulically and not pneumatically.
  - Pressure Test Lateral Lines - for a period of 2-hours, test lateral lines at static or design pressure, based on highest value, with a maximum loss of 2% to pass. Lateral lines must be pressurized hydraulically.
  - The main line pressure test must be conducted by a Licensed Irrigator Inspector, and Parks Department Representative.
  - Perform system testing upon completion of each section. Make necessary repairs and re-test required sections as required.
  - test and demonstrate the controller by operating appropriate day, hour, and station selection features as required to automatically start and shut down irrigation cycles to accommodate plant requirements and weather conditions.
- For additional irrigation requirements not set forth here, use the approved Parks Design and Construction Guidelines.

MATERIALS

- A. General:
- Provide only new material, without flaws or defects of the highest quality of their specified class and kind.
  - Comply with pipe sizes indicated. No substitution of smaller pipes will be permitted. Larger pipe sizes may be used subject to acceptance by the Designer (Landscape Architect) and Parks and Recreation Staff. Remove damage and defective pipe from the site immediately.
  - Provide pipe continuously and permanently marked with manufacturer's name or trademark, size, schedule, type of pipe, working pressure at 73 degrees F., and National Sanitation Foundation (NSF) approval.
- B. Plastic pipe, fittings, and connections:
- Polyvinyl chloride pipe: ASTM D2241, rigid, un-plasticized PVC, extruded from virgin parent material. Provide pipe homogeneous throughout and free from visible cracks, holes, foreign materials, blisters, wrinkles, and dents.
    - Distribution laterals: SDR 21, Class 200.
    - Pressure mains: PVC Schedule 40 IPS Plastic Pipe for 4-inch or smaller main lines.
    - Pressure mains: PVC Class 200 IPS Plastic Pipe for main lines larger than 4-inch.
  - PVC Pipe Fittings: ASTM D2241 Schedule 40 PVC molded fittings suitable for solvent weld, or screwed connections. Fittings made of other materials are not permitted.
    - Size slip fitting socket and taper to permit a dry un-solvent pipe end to be inserted no more than halfway into the socket. Saddle fittings are not permitted.
    - Schedule 80 PVC pipe may be threaded.
    - Use male adapters for plastic to metal connections. Hand tighten male adapters plus one turn with a strap wrench.
  - Insert fittings: ASTM D2466 insert type fittings.
    - Saddle and cross fittings not permitted.

**IRRIGATION LEGEND**

	3" FEBCO 825VD MASTER SERIES REDUCED PRESSURE ASSEMBLY W/3000-AL HYDROCOM ENCLOSURE
	BRASS BALL ISOLATION VALVE IN CARSON H.D. 11X17 BOX
	4" WATER METER (INSTALLED BY DEVELOPER)
	WEATHERMATIC 8200CR-10 3" VALVE
	HUNTER RAIN-CLICK RAIN SENSOR Mounted on 10' pole
	ELECTRIC METER
	RAINBIRD ESP-24 SAT T/W STATION CONTROLLER
	LATERAL PIPE CLASS 200 IPS PLASTIC PIPE (SIZE AS NOTED ON PLAN)
	4" SCHEDULE 40 IPS PLASTIC PIPE UNLESS OTHERWISE NOTED
	1" Buckler DBL Lug QC Snap Lok w/Male brass stabilizer elbow/with 11" x 17" boxes and bolt down covers.
	HUNTER I-25 ULTRA STAINLESS STEEL GEAR DRIVEN ROTOR NOZZLES: #20 (DARK BROWN) @ 60 PSI 17.8 GPM @ 62' Radius
	PUMP - BERKELEY BALDRE RELIANCE 15 HP 230 VOLTS 34/17 AMP 3525 RPM (320 GPM 140 FT. OF HD. OR EQUAL)
	A) VALVE # B) VALVE SIZE C) GPMs
	PUMP HOUSE - Large enough to enclose backflow and pump.
	WEATHERMATIC 8200CR-10 1" VALVE - Provide pressure regulator wye filter and pressure gauges.
	MULTI-PORT EMITTER MANIFOLD - RAINBIRD XERI-BIRD-XBD-80 OR EQUAL

LOT 1, BLOCK 333 DESIGN/STATIC PRESSURE 102.36 PSI  
PRESSURE LOSS CALCULATIONS: STATION B SECTION 160.2 GPM

4" Water meter @ 320.4 gpm	8.30 Psi Loss
4" Type 'K' Copper 20' @ 320.4 gpm	0.63 Psi Loss
4" Febco 860 Backflow @ 320.4 gpm	11.00 Psi Loss
6" C150 200 PSI PVC Pipe 70' @ 320.4 gpm	0.22 Psi Loss
4" SCHEDULE 40 IPS PVC Pipe 820' @ 320.4 gpm (looped)	8.39 Psi Loss
3" Weathermatic 8200 CR-10 Valve @ 320.4 gpm	10 Psi Loss
4" C150 200 PSI PVC Pipe 111.3' @ 160.2 gpm	0.63 Psi Loss
3" C 150 200 PSI PVC Pipe 33' @ 106.8 gpm	0.38 Psi Loss
3" C 150 200 PSI PVC Pipe 45' @ 89 gpm	0.30 Psi Loss
2 1/2" C 150 200 PSI PVC Pipe 45' @ 71.2 gpm	0.51 Psi Loss
2" C 150 200 PSI PVC Pipe 43.7' @ 53.4 gpm	0.76 Psi Loss
2" C 150 200 PSI PVC Pipe 51.8' @ 35.6 gpm	0.40 Psi Loss
1 1/2" C 150 200 PSI PVC Pipe 51.8' @ 17.8 gpm	0.35 Psi Loss
<b>TOTAL PRESSURE LOSS</b>	<b>41.87 Psi Loss</b>
<b>AVAILABLE PRESSURE LESS THE LOSS (50-41.87)</b>	<b>8.13 Psi</b>
<b>PRESSURE REQUIRED AT CRITICAL HEAD</b>	<b>60.00 Psi</b>

\* Pump requirements [psi at critical head less available] 60-81.3=51.87 psi  
51.87 psi x 2.31 ft. hd. = 119.82 (add 10%) = 131.80 ft. hd. @ 350 GPM

CITY PARK PRECIPITATION SCHEDULE

STATION NO.	TOTAL GPM	PRECIPITATION RATE	WATERING REQUIREMENTS	HEAD TYPE	NO. OF HEADS	NOZZLE SIZE	VALVE SIZE
1	160.2	1.47 IN/HR	48 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	9	#20	3"
2	142.4	0.73 IN/HR	96 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	8	#20	3"
3	195.8	0.73 IN/HR	96 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	11	#20	3"
4	195.8	0.73 IN/HR	96 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	11	#20	3"
5	178	0.73 IN/HR	96 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	10	#20	3"
6	160.2	1.47 IN/HR	48 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	9	#20	3"
7	178	0.73 IN/HR	96 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	10	#20	3"
8	160.2	1.47 IN/HR	48 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	9	#20	3"
9	178	0.73 IN/HR	96 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	10	#20	3"
10	178	0.73 IN/HR	96 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	10	#20	3"
11	195.8	0.73 IN/HR	96 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	11	#20	3"
12	195.8	0.73 IN/HR	96 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	11	#20	3"
13	142.4	0.73 IN/HR	96 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	8	#20	3"
14	160.2	1.47 IN/HR	48 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	9	#20	3"
15	142.4	0.73 IN/HR	96 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	8	#20	3"
16	178	1.47 IN/HR	48 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	10	#20	3"
17	195.8	0.73 IN/HR	96 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	ADJ.	11	#20	3"
18	3.6 GPM			DRIP			
19	2.8 GPM			DRIP			
20	3.6 GPM			DRIP			
21	2.8 GPM			DRIP			

Zone duration time required for each operation was determined as follows:

Zone 1 & 8  
1.2 in./Zone  
1.47 in/hr = 48 minutes watering required per day.

Zone 6 & 14  
1.2 in./Zone  
1.47 in/hr = 48 minutes watering required per day.

Zone 15  
1.2 in./Zone  
1.47 in/hr = 48 minutes watering required per day.

Zone 2 & 3  
1.2 in./Zone  
1.47 in/hr = 98 minutes watering required per day.

Zone 4 & 5  
1.2 in./Zone  
1.47 in/hr = 98 minutes watering required per day.

Zone 7 & 9  
1.2 in./Zone  
1.47 in/hr = 98 minutes watering required per day.

Zone 10 & 11  
1.2 in./Zone  
1.47 in/hr = 98 minutes watering required per day.

Zone 12 & 13  
1.2 in./Zone  
1.47 in/hr = 98 minutes watering required per day.

Zone 16 & 17  
1.2 in./Zone  
1.47 in/hr = 98 minutes watering required per day.

Zones 1 through 17 will pipe an average 62.4 inches of water per year. Seasonal adjustments will be needed.

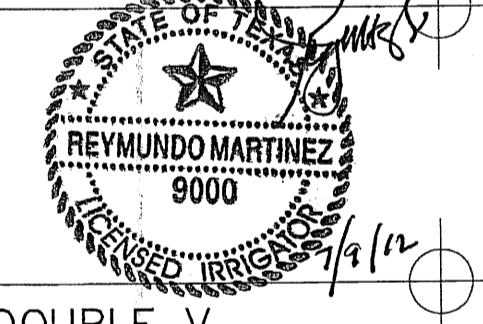
total Run Time: 32 hrs. 41 min.  
(2 hrs. 15 min) 3 stations at one time

Precipitation rate part circles =  $\frac{(gpm \text{ one hd}) \times 96.25}{(head \text{ spacing})^2 \times .433} = \frac{(17.8) \times 96.25}{(51.8)^2 \times .433} = 1.47 \text{ in/hr}$

Precipitation rate full circles =  $\frac{(gpm \text{ one hd}) \times 96.25}{(hd \text{ space} \times \text{row spacing})} = \frac{(17.8) \times 96.25}{(51.8) \times (45.1)} = 0.73 \text{ in/hr}$

NOTE: IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TEXAS 78711-3087, (512) 239-6719

PARK (302,628 S.F.)  
 14601 SUFFOLK TRAIL AVENUE  
 LOT 1, BLOCK 333  
 TIERRA DEL ESTE UNIT 67



DOUBLE V ENTERPRISES  
 8104 STAR AVENUE  
 EL PASO, TX 79907  
 (915) 858-7515

**PARKS DEPARTMENT**  
*Antonio del Rio - 09/06/2012*  
 Approved

Triangular spacing design  
 Design spacing = 10' - 15' overlap as per Parks Design Standards  
 Row spacing = Design spacing x .866  
 Design spacing = Park standards (radius 62'-10') = 52'  
 Row spacing = Design spacing (52') x .866 = 45'

DESIGN SPACING = 51.8'  
 ROW SPACING = 45.1'

KEYED NOTES

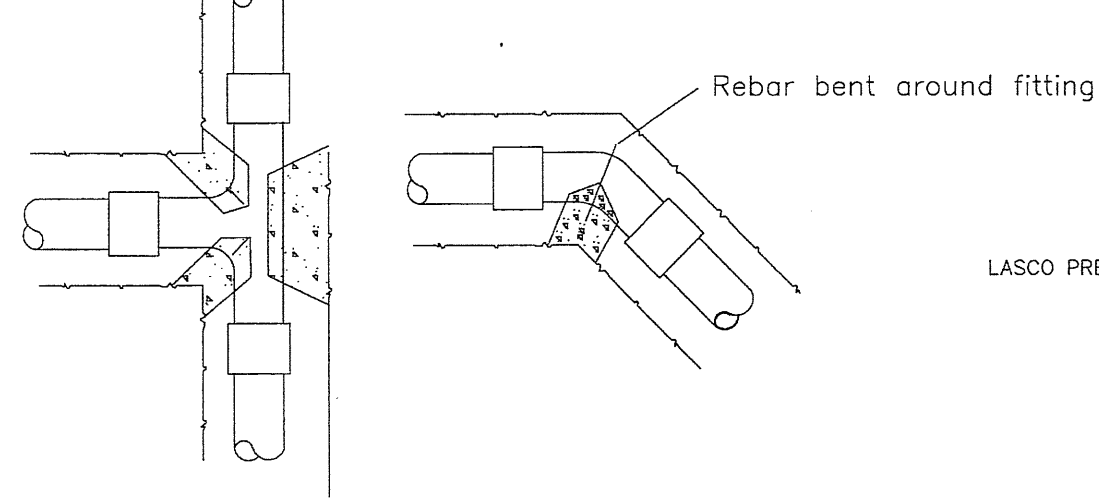
- Irrigation system top point: verify 50 psi and 350 gpm (pump will be required). Notify owner in writing if the above criteria not met.
- Controller Location: 110V Power by Developer. Coordinate exact location in field.
- Coordinate with contractor for enclosures on backflow.
- Contractor required to apply for and obtain the irrigation permit from Building permits and inspections.

LANDSCAPE IRRIGATION  
 Drawn/Design by:  
 Design/Checked by: RV

PROJECT:  
 TDE67L20110601  
 PHASE:  
 PRELIM-FINAL

Sheet no.  
 LI-2  
 Sheet no. 2 of 6

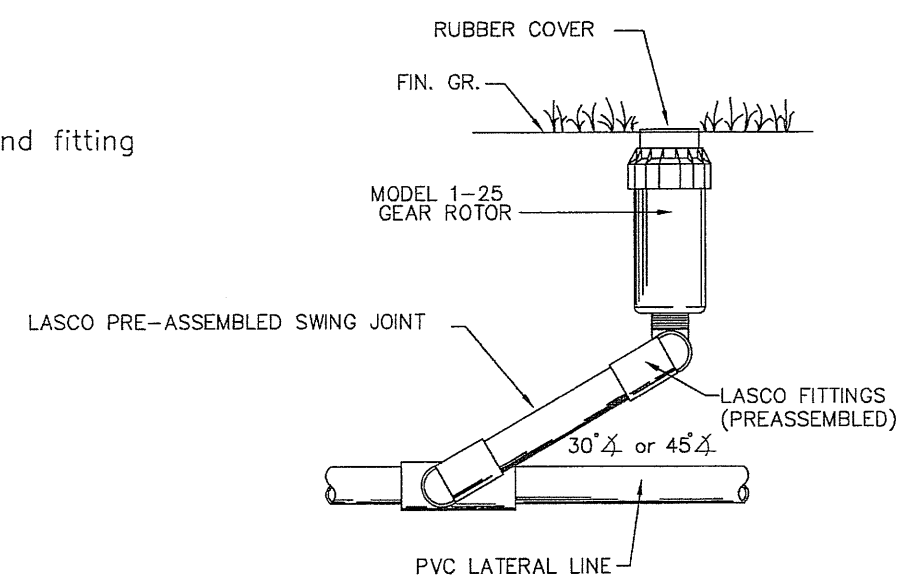
2,000 psi Concrete Thrust Block (typ)  
1. c.f. min. Do not cover joint  
seams. Provide 6 mil poly  
between conc. & fitting.



Thrust Blocks required on all 3" and  
larger pipe.

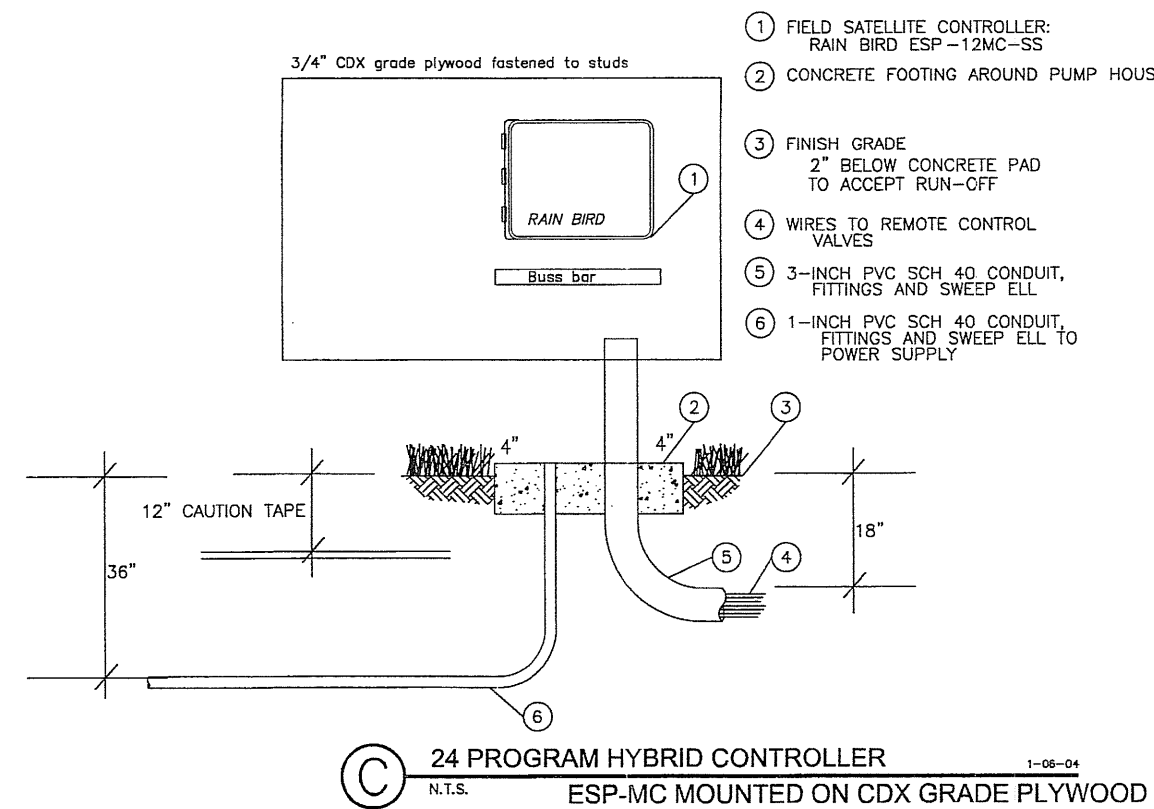
### Thrust Blocking Detail

NOT TO SCALE



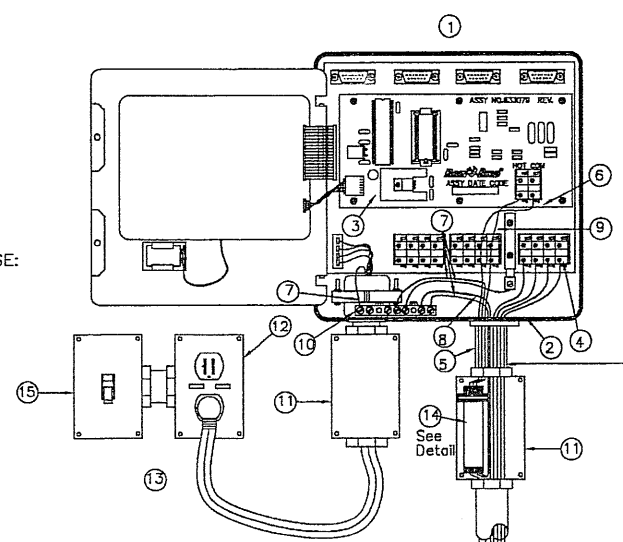
### 1-25 GEAR DRIVE DETAIL

NOT TO SCALE



### 24 PROGRAM HYBRID CONTROLLER ESP-MC MOUNTED ON CDX GRADE PLYWOOD

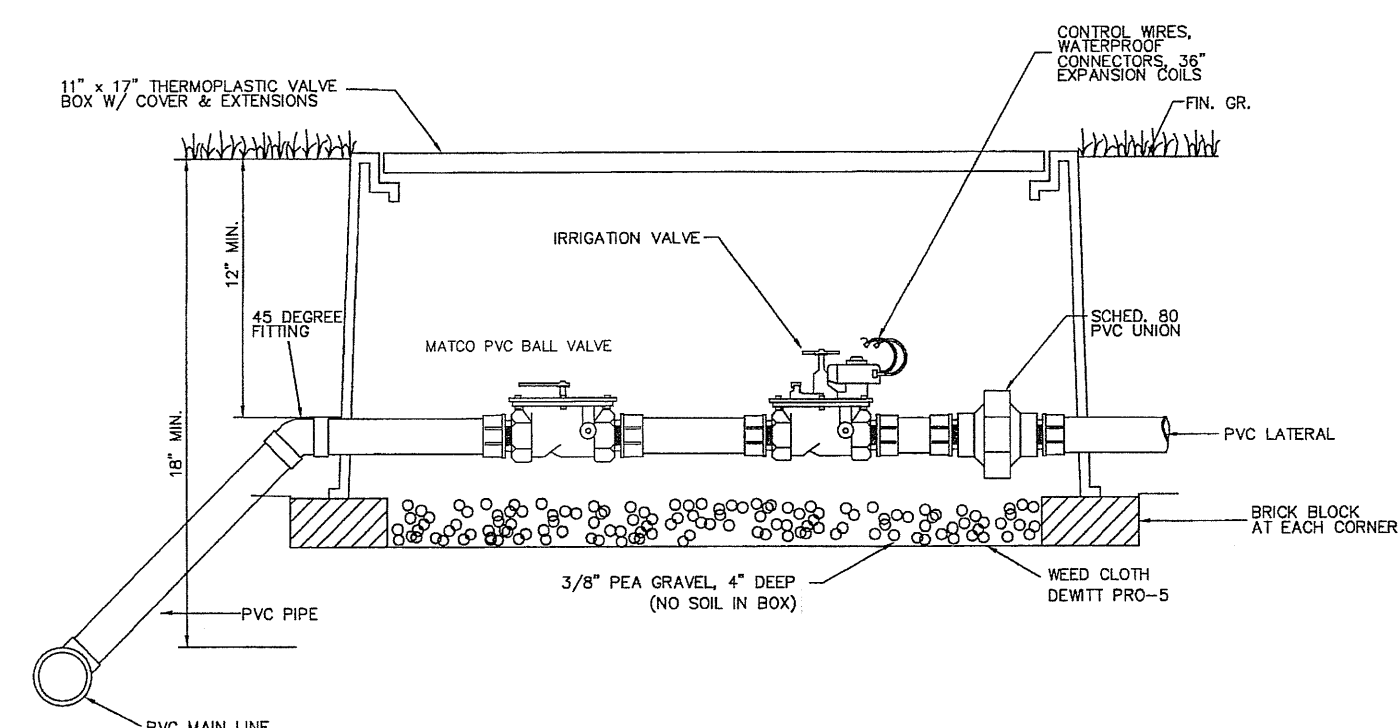
NOT TO SCALE



### ESP-24MC INSTALLATION DETAIL

NOT TO SCALE

- INSTALL IN NEMA2 APPROVED ENCLOSURE
- RAIN BIRD ESP-SAT WALL MOUNT (METAL/PLASTIC) FIELD SATELLITE CONTROLLER
- ESP-SAT TWO-WIRE MAXIMOM INTERFACE BOARD (MIB)
- WIRE TERMINAL CONNECTORS TO REMOTE CONTROL VALVES USE ESP-MC QUICK CONNECT TERMINAL STRIP. ALL WIRES TO BE LABELED IN CONJUNCTION WITH EACH IRRIGATION REMOTE CONTROL VALVE.
- PLACE A QUICK DISCONNECT IN THIS GENERAL LOCATION SEPARATE FROM THE ONE ON THE CLOCK (CONTROLLER)
- CABLE CONDUIT - SIZE AS REQUIRED
- COMMON WIRE (BLACK) FROM MSP-1 SURGE ARRESTOR TO MAXIMOM INTERFACE BOARD (MIB)
- ALL GROUND WIRES (GREEN) TO GROUNDING BUSS BAR
- #10 COPPER GROUND WIRE FROM ESP FIELD SATELLITE CONTROLLER GROUNDING BUSS BAR TO GROUNDING GRID (SEE GROUNDING GRID MAXIMOM DETAIL, 303)
- HOT WIRE (RED) FROM MSP-1 SURGE ARRESTOR TO MAXIMOM INTERFACE BOARD (MIB)
- ESP FIELD SATELLITE CONTROLLER GROUNDING BUSS BAR
- JUNCTION BOX - SIZE AS REQUIRED
- 120 VOLT POWER SUPPLY W/ G.F.C.I. PROTECTION
- REFER TO LOCAL ELECTRIC CODE FOR CONNECTIONS
- RAIN BIRD MSP-1 RECOMMENDED SURGE ARRESTOR TO BE IN SEPARATE BOX WITH COVER
- RAIN BIRD WARRANTY REQUIRES PROPER SURGE PROTECTION. USE INTERMATIC AG2401 OR TRIPLETTE ISOBAR



ALL VALVE BOXES TO HAVE ONE COURSE OF BLOCKS AT BOTTOM AND INSTALL EXTENSION BOXES TO SET TOP AT GRADE. INSURE THAT THERE IS A GAP BETWEEN VALVE BOX AND PIPE.

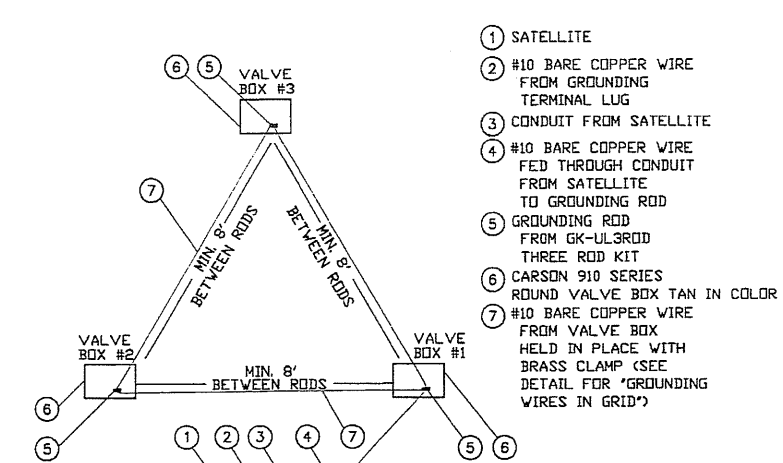
### ELECTRIC CONTROL VALVE DETAIL

NOT TO SCALE

### GROUNDING ROD NOTES:

GROUNDING RODS SERVE AS ELECTRODES FOR SURGE DEVICES TO DISSIPATE THE SURGE INTO THE EARTH. REMEMBER THESE TIPS WHEN INSTALLING THEM:

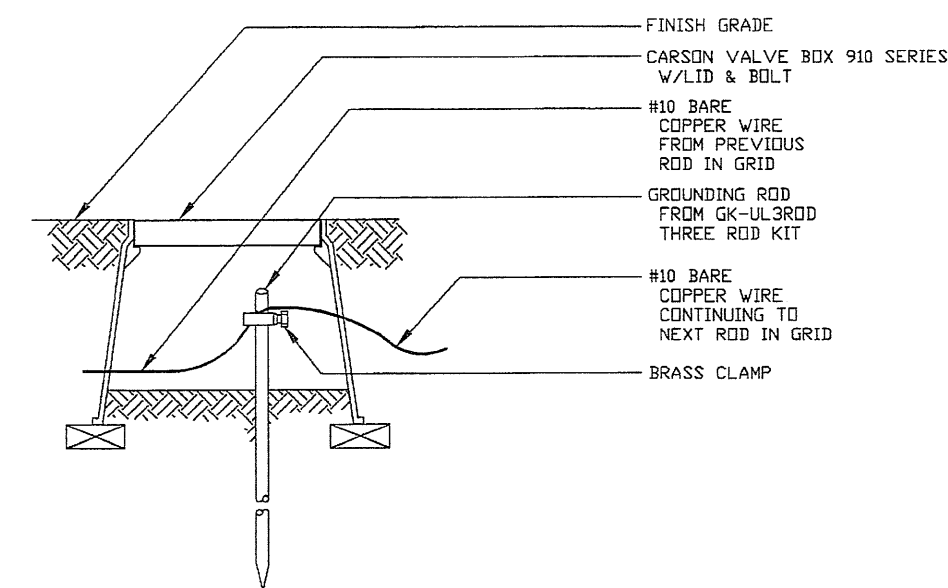
- ALWAYS USE A 5/8-INCH X 8-FOOT COPPER CLAD ROD.
- RUN A #10 OR LARGER BARE COPPER WIRE FROM THE DEVICE TO THE ROD.
- KEEP THE GROUND WIRES AS SHORT AND STRAIGHT AS POSSIBLE FROM THE DEVICE TO THE FIRST ROD.
- CLAMP ALL WIRES TO THE GROUNDING ROD. DO NOT SOLDER OR TAPE THEM TO THE ROD.
- ALWAYS USE A SEPARATE CLAMP TO ATTACH EACH WIRE TO A ROD.
- TO INSTALL GROUNDING ROD, USE GK-TOOLS ROD DRIVING SLEEVE.
- SPACE THREE RODS IN A TRIANGULAR GRID AT LEAST 8 FEET APART FROM THE OTHERS IN THE GRID. CONNECT ALL THREE RODS WITH A SOLID #10 COPPER WIRE.
- WHEN TESTED WITH THE PROPER EQUIPMENT, GRIDS SHOULD HAVE AN EARTH RESISTANCE NO GREATER THAN 15 OHMS.
- WHENEVER MORE THAN ONE WIRE IS ATTACHED TO A GROUNDING ROD ALWAYS USE A SEPARATE CLAMP FOR EACH WIRE. TRYING TO INSTALL MORE THAN ONE WIRE PER CLAMP COULD CAUSE A POOR CONNECTION RESULTING IN HIGH RESISTANCE LEVELS.



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

### TRIANGULAR GROUNDING GRID PLAN VIEW

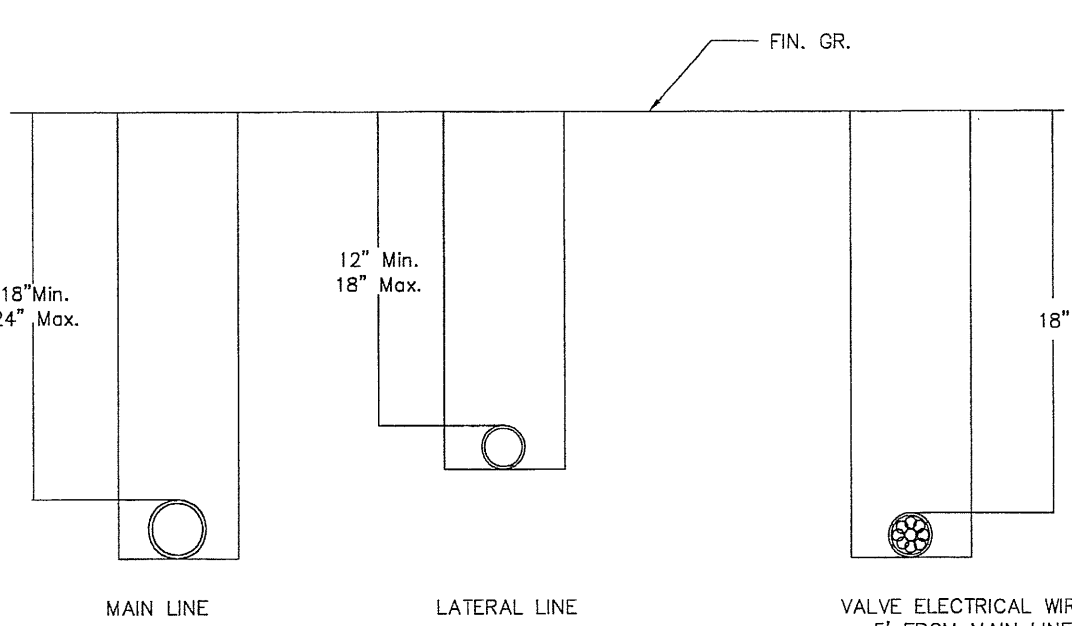
NOT TO SCALE



SEE GROUNDING ROD NOTES FOR INSTALLATION INSTRUCTIONS.

### GROUNDING WIRES IN GRID DETAIL

NOT TO SCALE

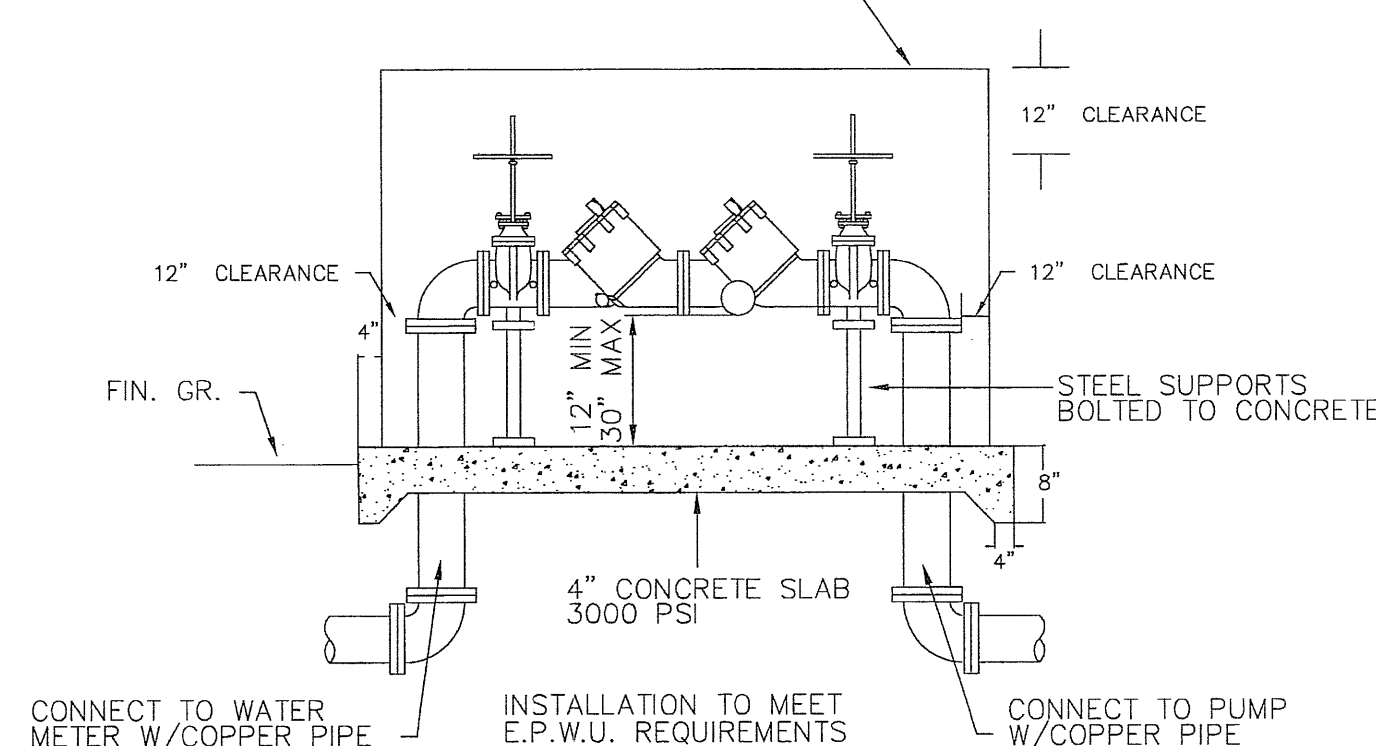


MAIN LINE, LATERAL LINE AND VALVE ELECTRICAL WIRES SHALL EACH BE INSTALLED IN SEPARATE TRENCHES.

### TRENCHING STANDARD DETAIL

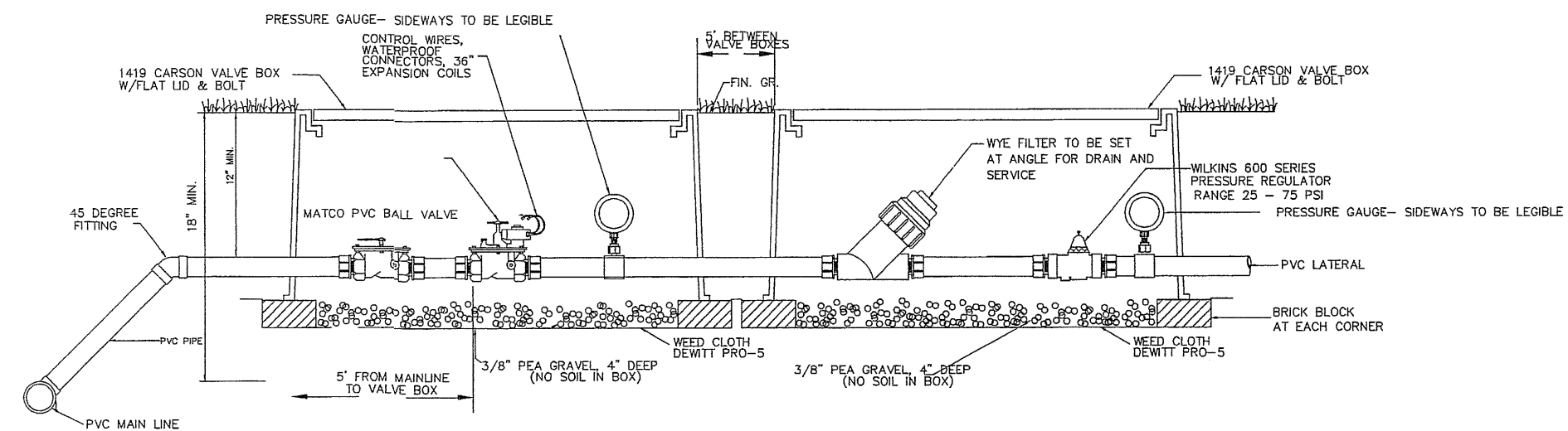
NOT TO SCALE

ENCLOSURE TO BE BY HYDRO COWL, MODEL No. 300D-AL. (L78"xW48"xH44") IRRIGATOR IS TO SELECT APPROPRIATE SIZE OF ENCLOSURE AND INSTALL AS PER MANUFACTURER'S INSTRUCTIONS. MUST MEET ASSE STANDARD 1060 AND HAVE A MINIMUM R-25 VALUE.



### REDUCED PRESSURE B.F.P DETAIL

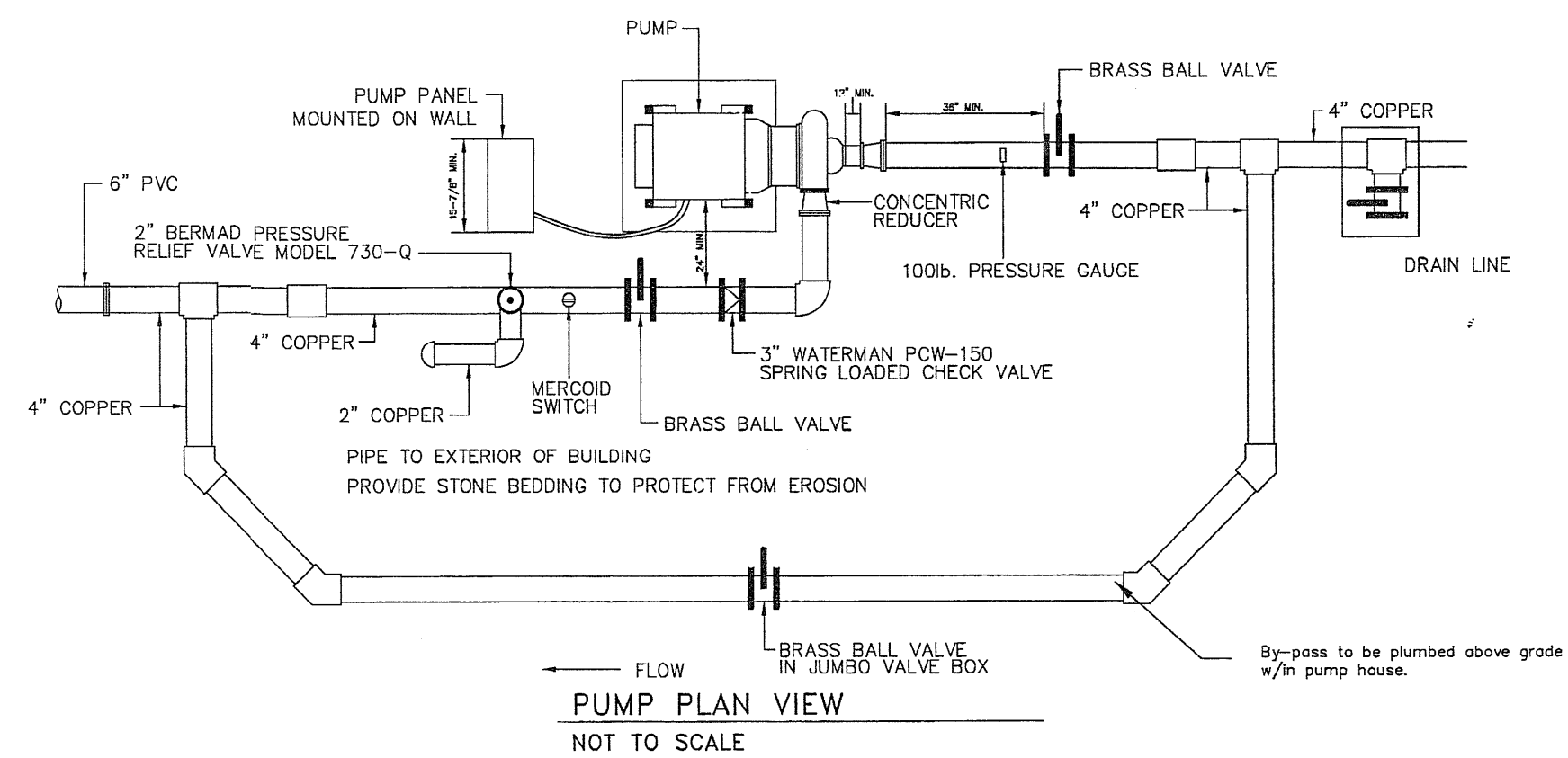
NOT TO SCALE



ALL WEED CLOTH AROUND VALVE AND EMITTER BOXES SHOULD BE TAPED AND SEALED AROUND PENETRATIONS TO PREVENT SOILS FROM ERODING INTO BOXES.

### ELECTRIC CONTROL VALVE W/ FILTER & PRESSURE REGULATOR DETAIL

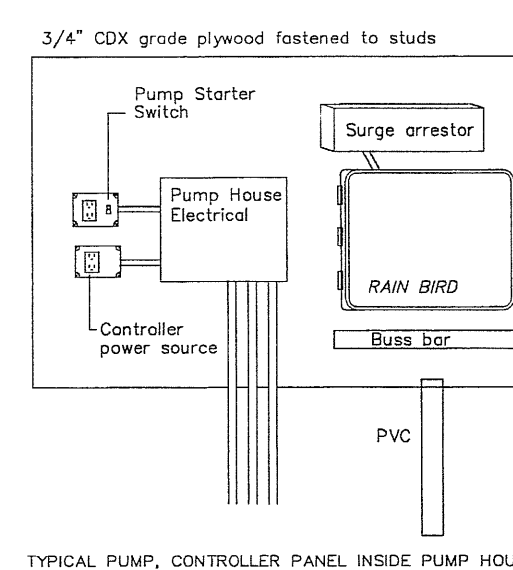
NOT TO SCALE



### PUMP PLAN VIEW

NOT TO SCALE

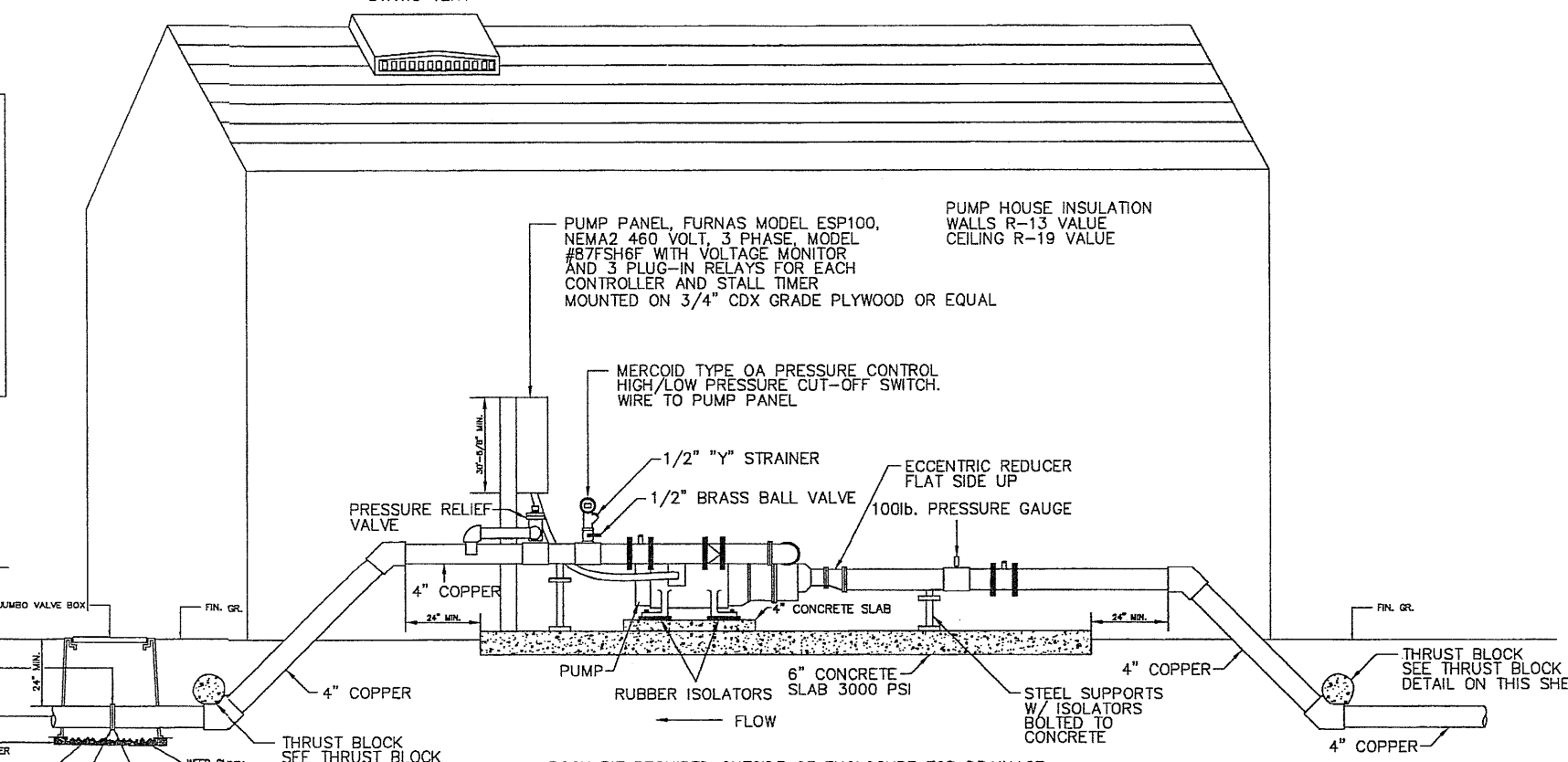
PUMP ENCLOSURE TO BE A TUFF SHED OR EQUIVALENT INSULATED BOLTED ON CONCRETE SLAB.



TYPICAL PUMP, CONTROLLER PANEL INSIDE PUMP HOUSE

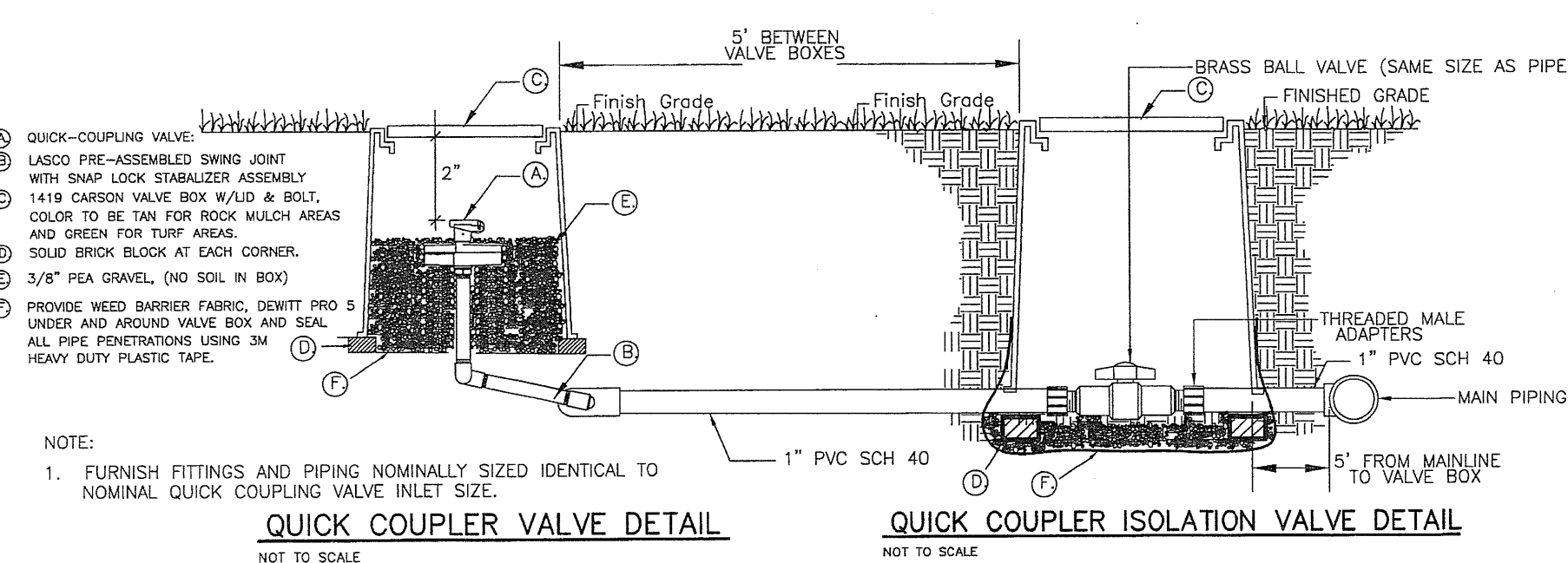
### PUMPS

- Pump start relay shall be installed as required to meet pressure demands of system.
- Pump relays shall be minimum of 8' from irrigation controller.
- Pump control wiring shall be on a separate circuit.
- Pumps shall be installed with high-pressure and low-pressure limit switches, relief valves, and pressure gauges on inlet and outlet sides of pump.
- Pumps shall be installed with cutoff valves on inlet and outlet sides.
- Pumps shall be installed with bypass piping and isolation valve.
- Pump houses shall be properly vented and allow for drainage to exterior of building.
- Pump relief valves shall be vented to exterior of pump houses.
- Irrigation controllers shall be installed in water tight NEMA rated, securable enclosures when set in general area of pump(s).
- All electrical equipment in pump house are to be labeled with weather proof permanent (fastened) labels (tags).



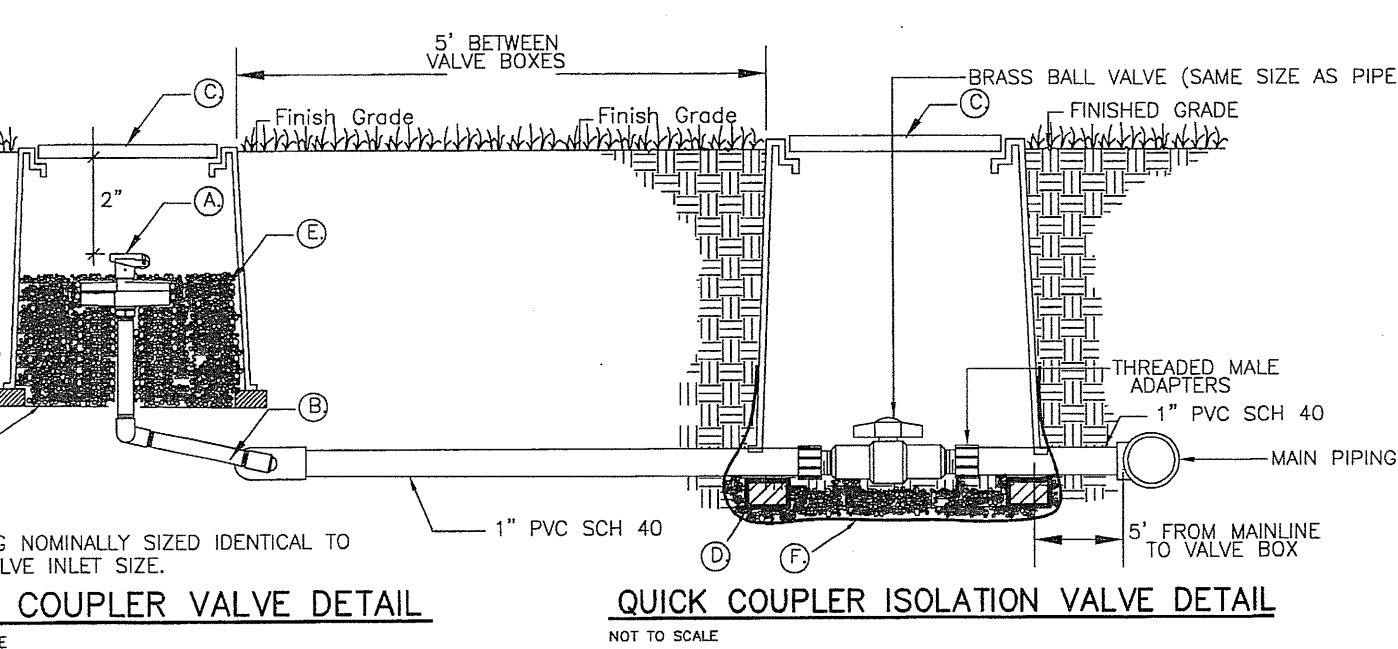
### PUMP DETAIL

NOT TO SCALE



### QUICK COUPLER VALVE DETAIL

NOT TO SCALE

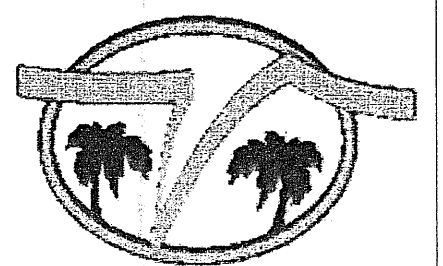


### QUICK COUPLER ISOLATION VALVE DETAIL

NOT TO SCALE

PARK (302,628 S.F.)  
14601 SUFFOLK TRAIL AVENUE  
LOT 1, BLOCK 333  
TIERRA DEL ESTE UNIT 67

DOUBLE V ENTERPRISES  
8104 STAR AVENUE  
EL PASO, TX 79907  
(915) 858-7515

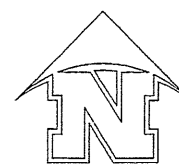


LANDSCAPE IRRIGATION  
Drawn/Design by:  
Design/Checked by: RV  
PROJECT:  
TDE67LI20110601  
PHASE:  
PRELIM-FINAL

Sheet no.  
LI-3  
Sheet no. 3 of 6

PARKS DEPARTMENT

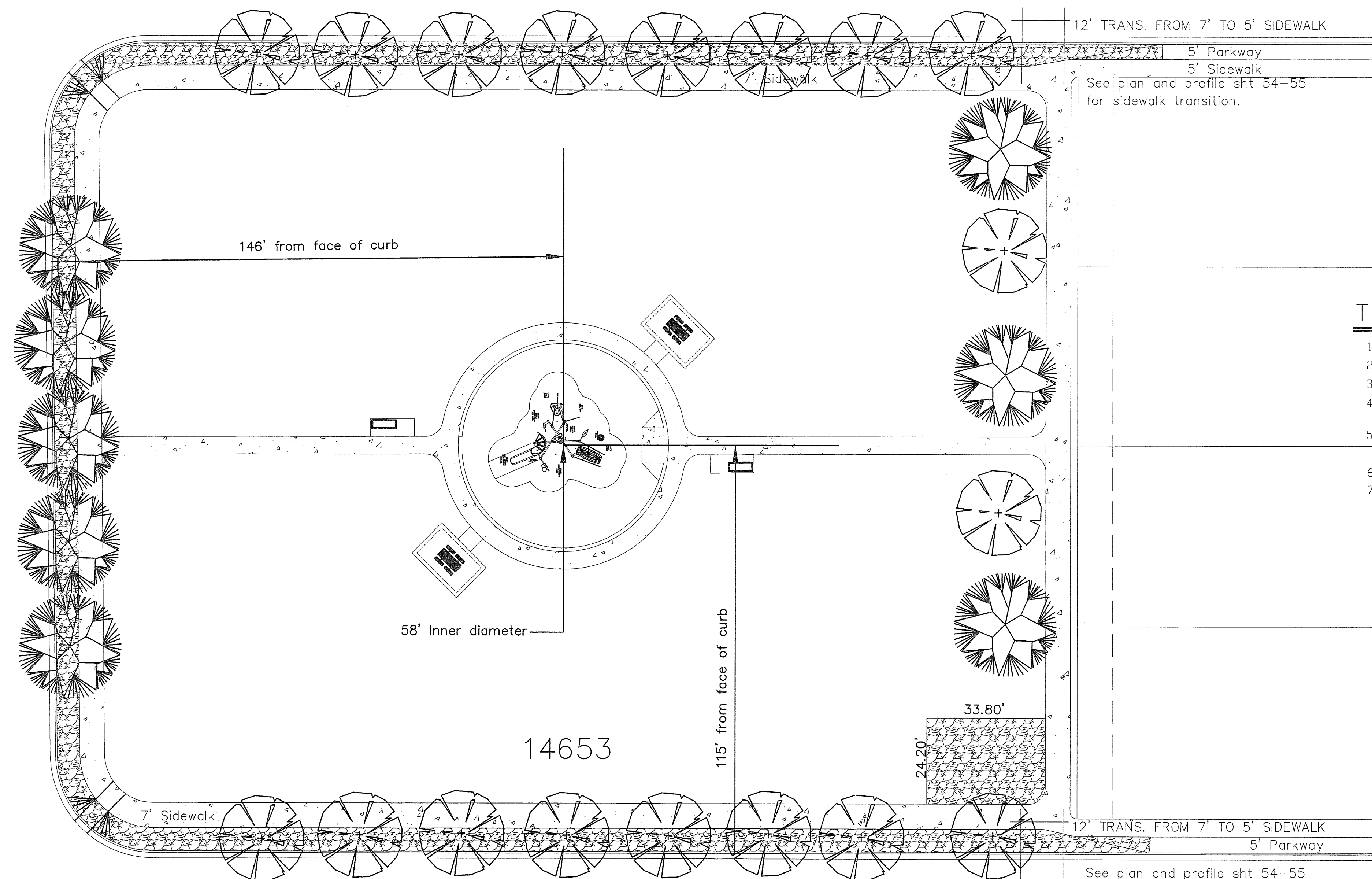
Approved  
Antonio del... ~ 09/06/2012



# HOLSTEINER COURT

SCALE: 1"=20'

BELGIAN TRAIL STREET



Provide 2" sleeve at all ramp crossings.  
 Wheel chair ramp (Typical)  
 See Details Sheet 95

# OLDENBERG COURT

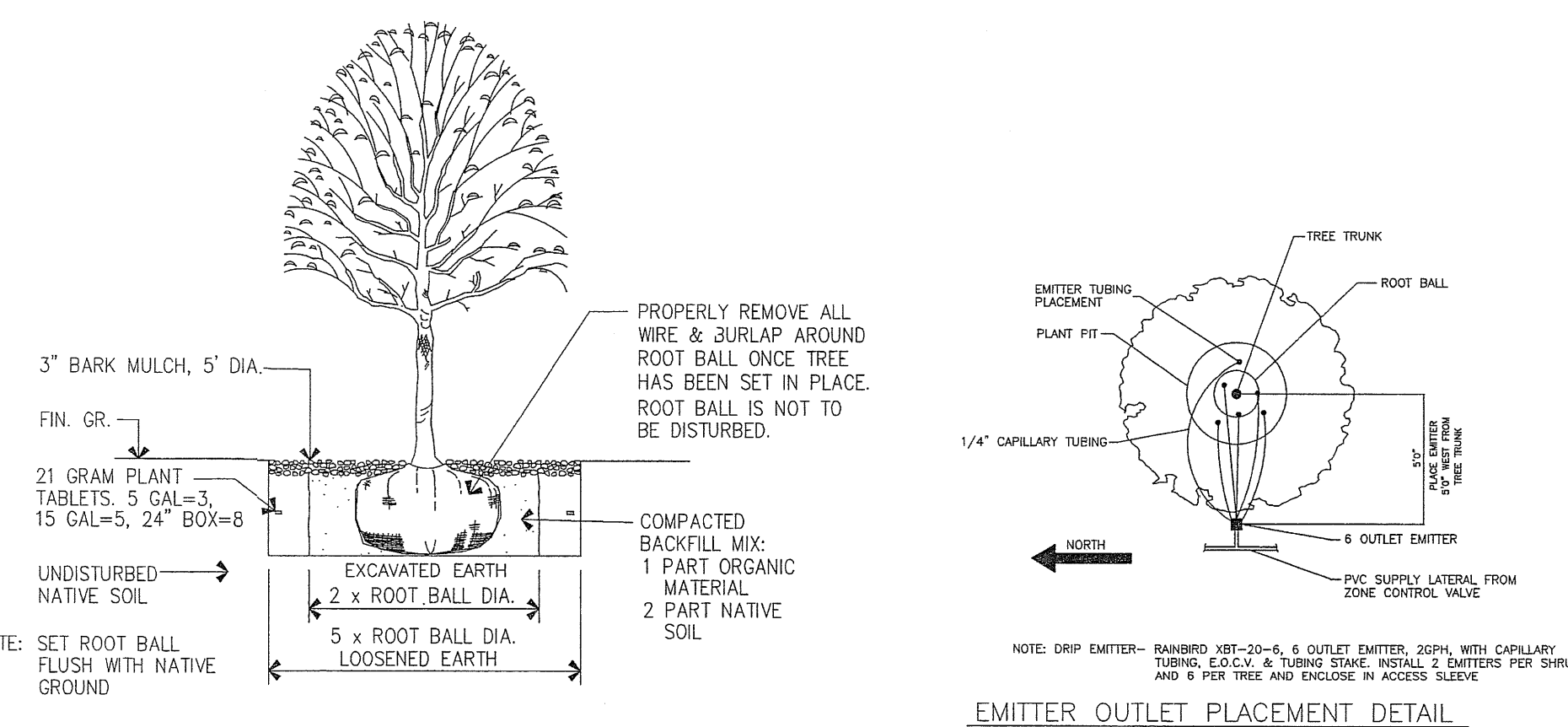
PLANT SCHEDULE									
SYM.	TYPE	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	HT.	WT.	FORM	DESCRIPTION
		7	FAN TEX ASH	FRAXINUS VELUTINA	2"	10'		TREE	DECIDUOUS
		18	RAYWOOD ASH	FRAXINUS OVICARPA	2"	10'		TREE	DECIDUOUS

### GROUND COVERS

SYMBOL	DESCRIPTION	QTY.	UNIT
	CANYON RED ROCK W/NON WOVEN POLYPROPYLENE WEED BARRIER (5875 SQ. FT.)	1" - 3"	ROCK
	CONCRETE WALK PATHS (8750 SQ. FT.)		
LANDSCAPE STRUCTURES WEEVOS #3064			
	PARK BENCH WABASH VALLEY 6' BENCH - IN GROUND - PRESTIGE MODEL #PP301 W/SC202 MOUNTING PLATE COVERS	2	
	PICNIC UNITS WABASH VALLEY 7' ADA - ACCESSIBLE IN GROUND SPYDER MODEL SY#225 W/MC104 MOUNTING PLATE COVERS	2	

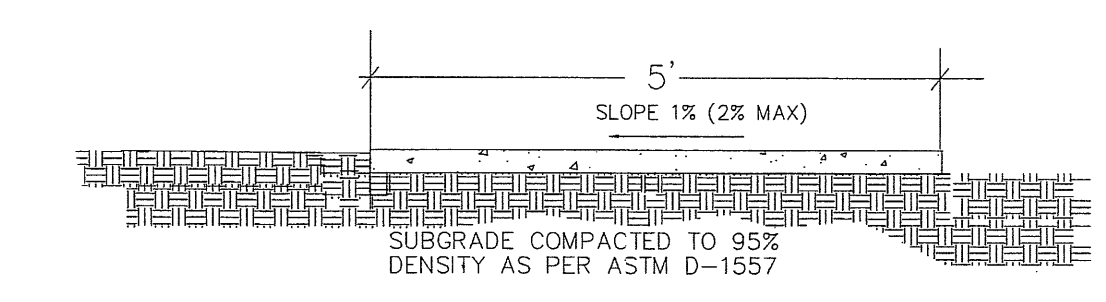
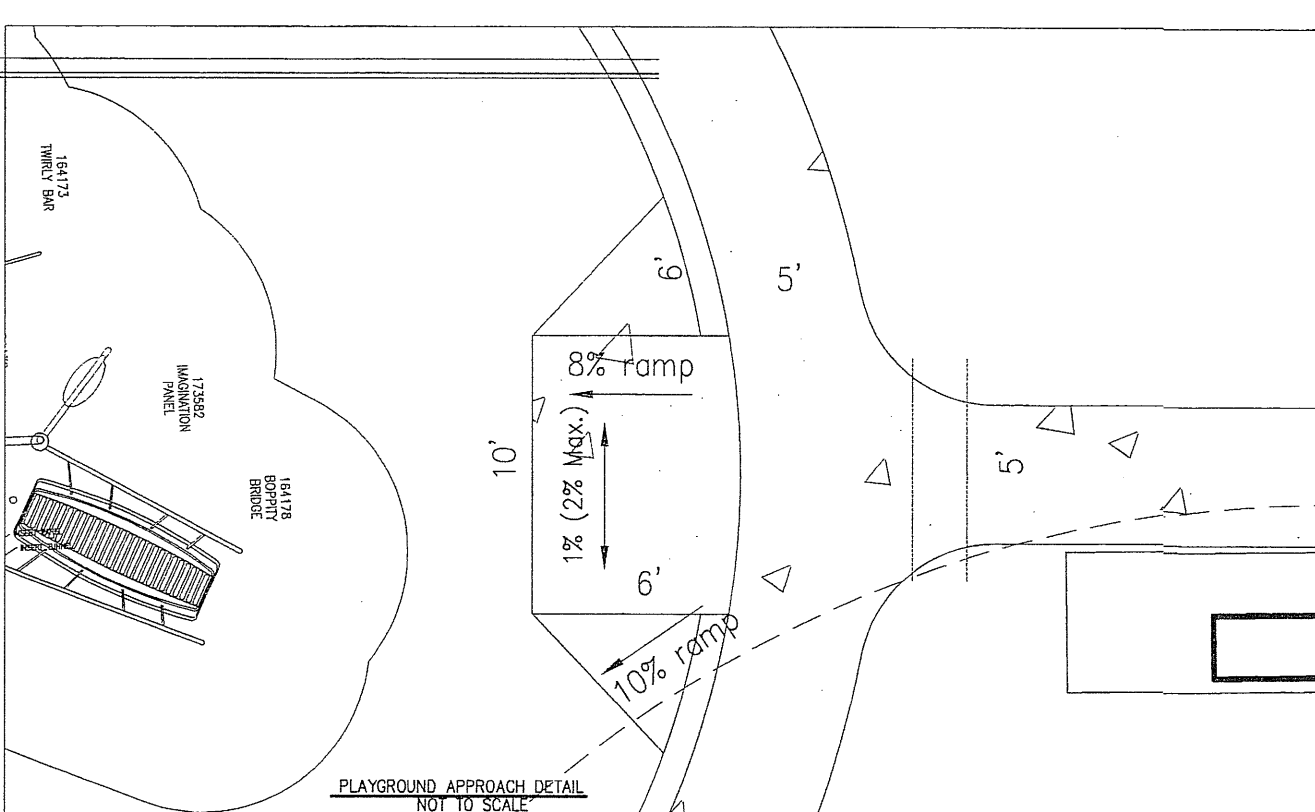
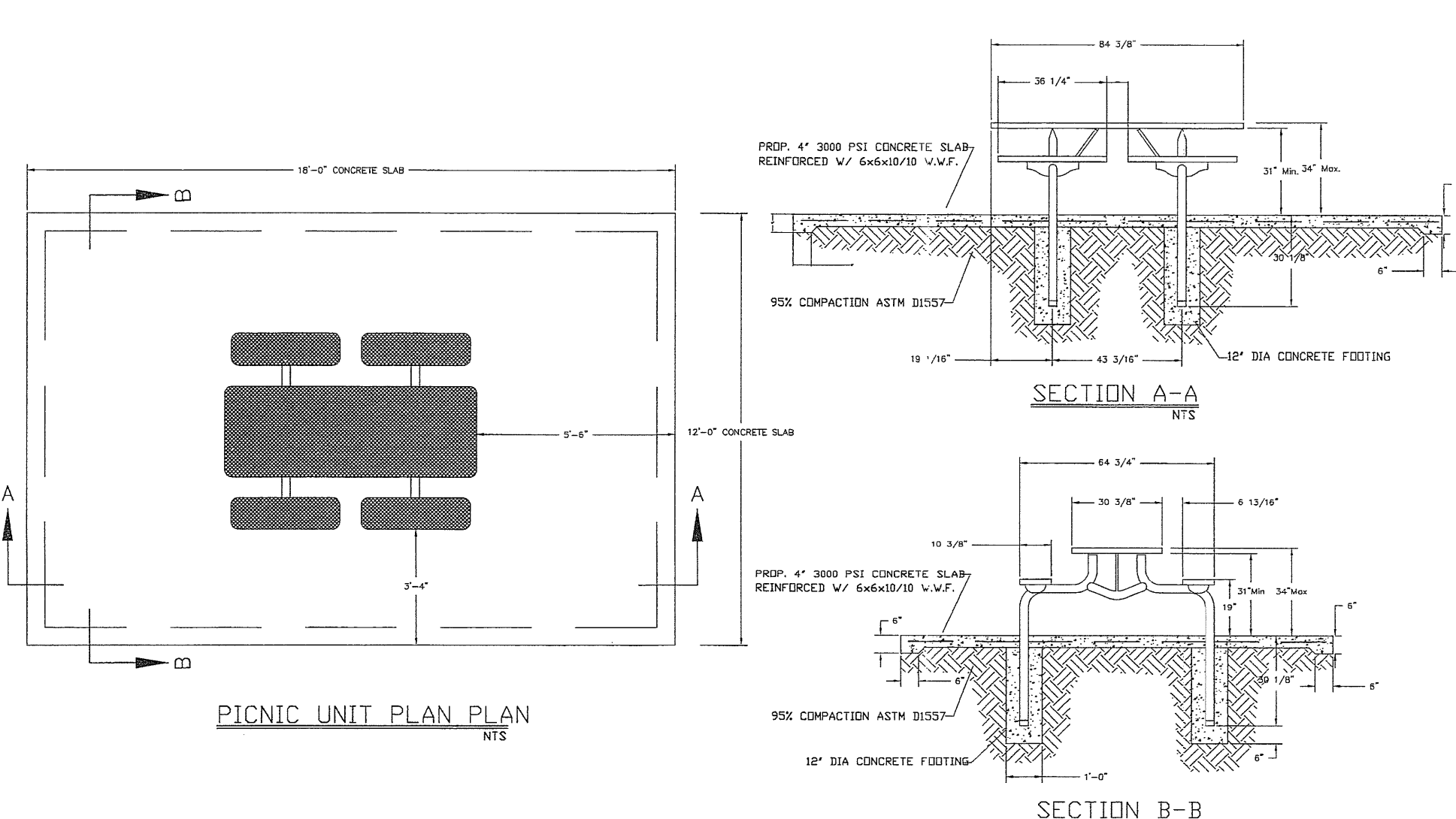
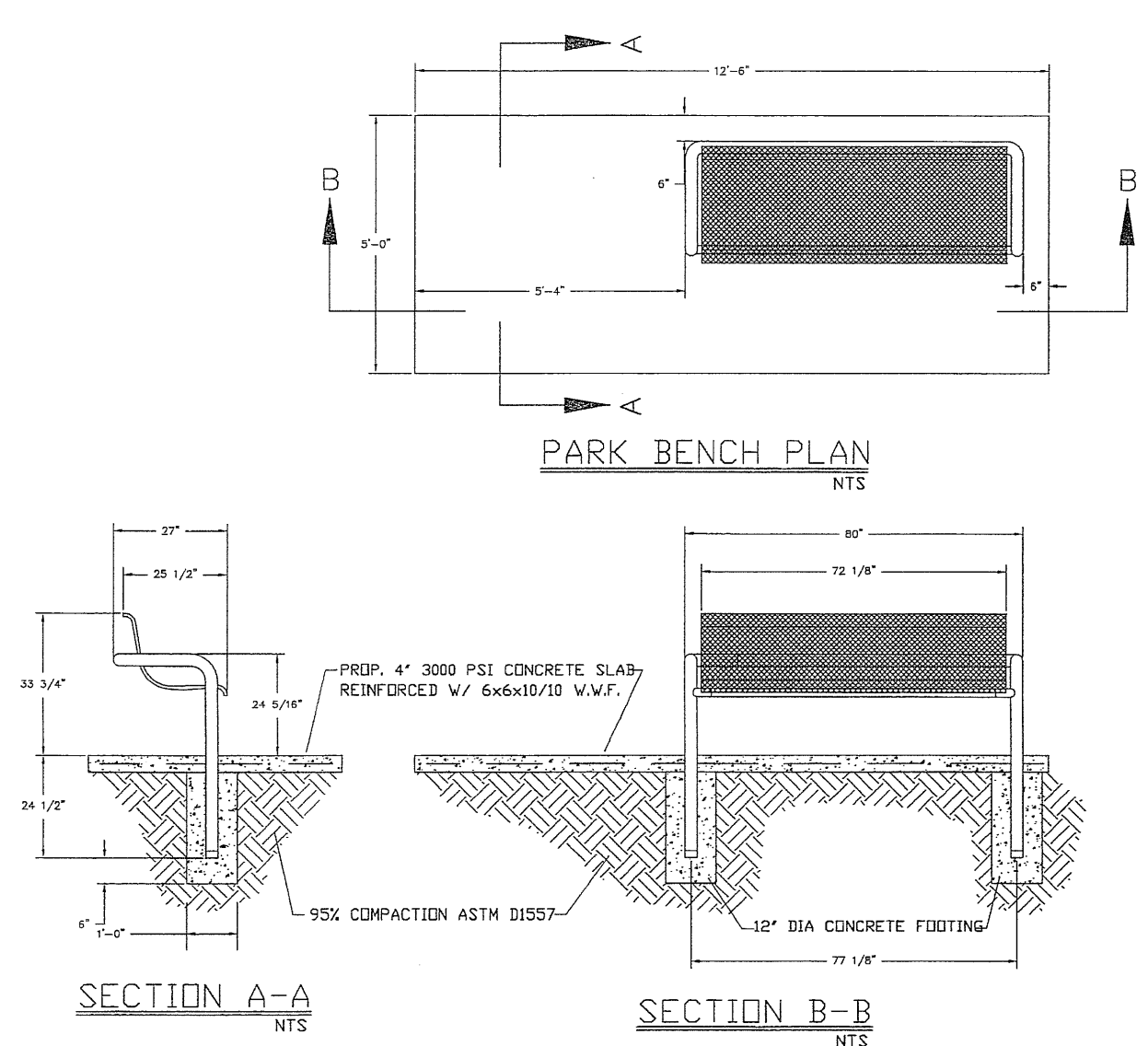
### TREES, SHRUBS AND GROUND COVERS

- Provide plant materials record drawings
- The contractor shall coordinate the construction activities with Parks department.
- Identify field changes of trees, plants and shrubs on final asbuilt drawing.
- A complete list of plants, including sizes, quantity, and other requirements to be shown on drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.
- The irrigation system will be installed prior to planting. Locate and maintain the irrigation system during planting operations. Repair irrigation system components, damaged during planting operation, at Contractor's expense.
- Warranty plant material to remain alive and be in healthy, vigorous condition for a period of 1 year after acceptance.
- Warranty shall not include damage or loss of trees, plants, or ground covers caused by fires, floods, freezing, rains, lightning storms, or winds over 75 miles per hour, winter kill caused by extreme cold and severe winter conditions not typical of planting area; acts of vandalism or negligence on the part of the Owner.



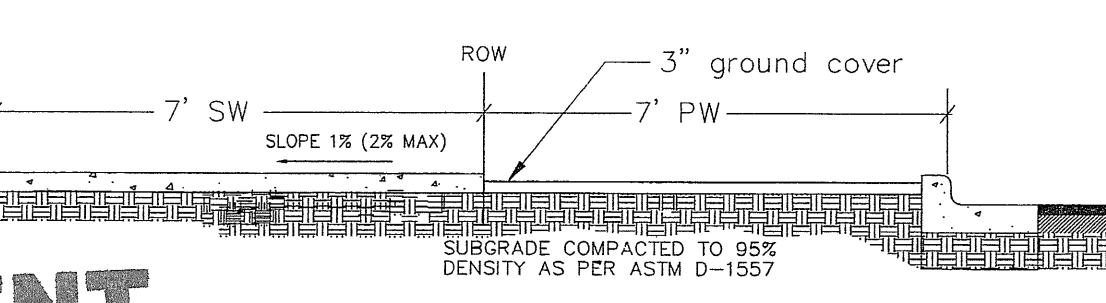
TREE PLANTING DETAIL  
NOT TO SCALE

EMITTER OUTLET PLACEMENT DETAIL  
NOT TO SCALE



SIDEWALK SECTION TRAIL WALK  
SCALE: NTS

- NOTES:
- CONCRETE SIDEWALK SHALL BE 3000 P.S.I. MINIMUM AND 4" THICK.
  - DUMMY JOINTS AT 5' ON CENTER FOR SIDEWALK.
  - EXPANSION MATERIAL REQUIRED AT 20' O.C. FOR SIDEWALKS WITH 1/2" PREMOULDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.



SIDEWALK SECTION ADJACENT  
SCALE: NTS

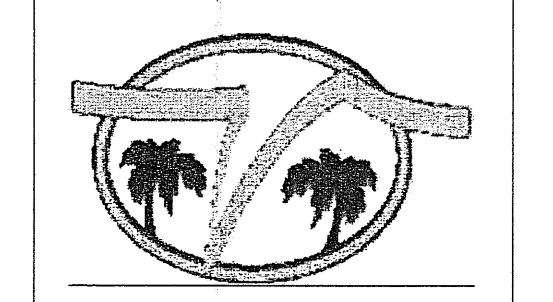
- NOTES:
- CONCRETE SIDEWALK SHALL BE 3000 P.S.I. MINIMUM AND 4" THICK.
  - DUMMY JOINTS AT 7' ON CENTER FOR SIDEWALK.
  - EXPANSION MATERIAL REQUIRED AT 21' O.C. FOR SIDEWALKS WITH 1/2" PREMOULDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.

**PARKS DEPARTMENT**  
*Antonio del Rio - 09/04/2012*  
 Approved

NOTE: ENGINEER TO REGISTER PROJECT WITH TEXAS DEPARTMENT OF LICENSING AND REGULATIONS.

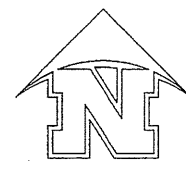
PARK (60,620.25 S.F.)  
 14653 OLDENBERG COURT  
 LOT 1, BLOCK 315  
 TIERRA DEL ESTE UNIT 67

DOUBLE V ENTERPRISES  
 8104 STAR AVENUE  
 EL PASO, TX 79907  
 (915) 858-7515



LANDSCAPE IRRIGATION  
 Drawn/Design by:  
 Design/Checked by: RV  
 PROJECT: TDE67LI20110601  
 PHASE: PRELIM-FINAL

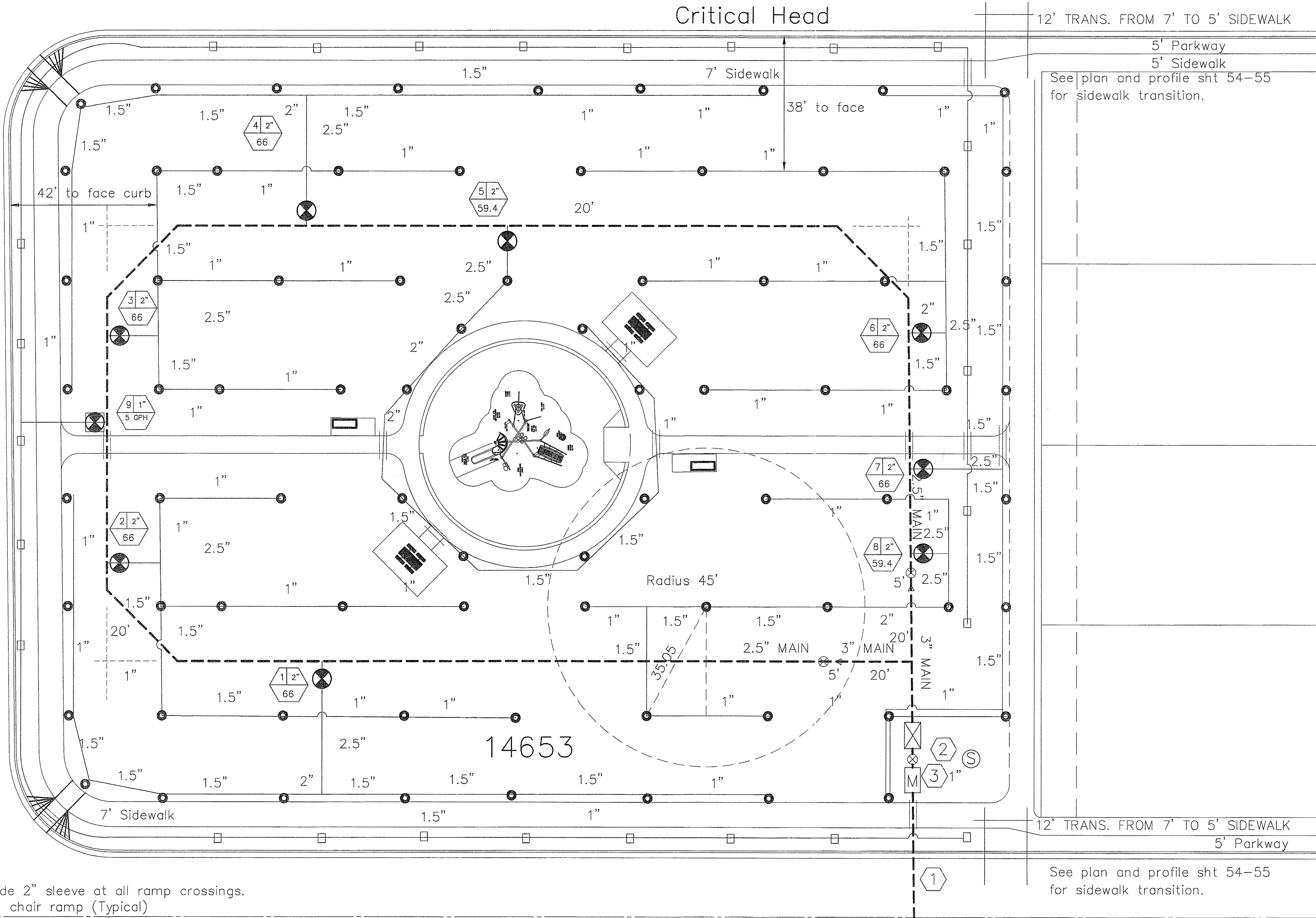
Sheet no. 4 of 6



# HOLSTEINER COURT

SCALE: 1"=20'

BELGIAN TRAIL STREET



Provide 2" sleeve at all ramp crossings.  
 Wheel chair ramp (Typical)  
 See Details Sheet 95

# OLDENBERG COURT

## GENERAL NOTES

- Contractor shall contact all utility companies & Park Dept. before any trenching operation, to locate and mark their lines in the area of work.
- Electrical wire splices will not be permitted between controller and valves, all connections will be permitted in valve boxes only. No splices will be buried.
- All manual valves shall be placed in valve boxes, placed at proper depth in relation to finish grade.
- All electrical valves shall be installed in plastic valve boxes with locking covers. Valve boxes shall be manufactured by Carson Industries, model series 1419 box with 1419-28 hinged cover, bolt down.
- Actual conditions in the field may necessitate adding or adjusting heads to insure uniform coverage and distribution, contractor shall be responsible for field changes with Landscape Designer, Licensed Irrigator and Parks Dept.
- Contractor will not willfully install the irrigation system as designed, when it is obvious that field conditions exist that were not considered at time of designing the system. Any conditions noted on such shall be reported to the Landscape Designer, Licensed Irrigator and Parks Dept. If the contractor fails to do so, the contractor assumes full responsibility for any corrections needed.
- All valves shall be tagged with a waterproof tag at each valve showing valve number and controller number as shown on plan. Label all wiring at controllers and panel.
- Location of drip emitters shall be installed exactly as shown on plans. Piping and valves are diagrammatically shown and may vary with approval from Landscape Designer, Licensed Irrigator and Parks Dept.
- All access boxes for drip emitters shall be installed flush with grade.
- All access boxes, valve boxes and sprinkler heads along walkways within interior grounds of the site shall be installed min. 6" from the edge of all walkways to the back of the sprinkler head or valve box.
- Meter shown within right-of-way for clarity only.
- Each irrigation controller shall have an independent common wire of any other irrigation controller.
- All trenching shall be a 10'-6" min. distance from the center of the trunk of any tree.
- Drip distribution tubing shall be placed in a circular pattern around the trunk of each tree, min. 24" from the trunk. Use 1/4" tubing stake at each tube to hold the end of the tubing in place.
- All unsuitable excavated materials from trenches shall be removed from the project site. Approved backfill shall be used to backfill trenches.
- Contractor shall verify the exact location of all existing and proposed utilities and site conditions prior to beginning construction. Any damage caused by the Contractor shall be repaired or replaced at no additional cost to owner.
- Locate all heads and valves away from low spots or areas of drainage flow.
- Electric control wire (#14 gauge) and common ground (#12 gauge) shall be direct burial, color coded and all connections shall be waterproofed. Provide expansion coils at all valves and 200' on center maximum. Provide separate common wire for each controller. No splicing will be permitted between valve and controller.
- All piping/wiring running beneath paved surfaces (driveways, sidewalks, etc.) shall be installed in glass 200 PVC sleeve. Sleeve shall be of the size so that the inside diameter of the sleeve is 2 times greater than that of the outer diameter of the item installed in the sleeve.
- Sleeves must extend 24" beyond edge of paved or concrete surfaces and ends wrapped and taped with 4 mil plastic.
- Contractor shall fine tune and adjust the irrigation system so that no water/spray will run onto street, walks, or hit any building, walls, etc. This shall include adjusting heads, nozzles, spray arcs, radius, etc.
- Contractor shall provide the owner with as-built drawings on mylar prior to approval of final payment.
- Use only Losco fitting on all 45's and tees.

## IRRIGATION NOTES

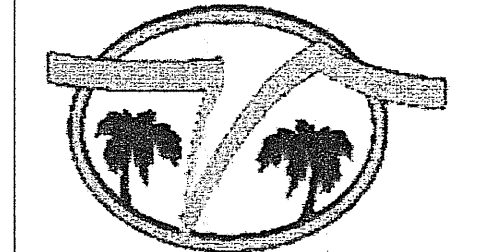
- Testing:
  - Pressure Test Main Line - after all main line piping, related work and installation of all irrigation remote control valves is completed for a period of 24-hours. Test main water line at 50 psi above static pressure of design pressure, based on highest value; with a maximum loss of 1% to pass. Water main must be pressurized hydraulically and not pneumatically.
  - Pressure Test Lateral Lines - for a period of 2-hours, test lateral lines at static or design pressure, based on highest value, with a maximum loss of 2% to pass. Lateral lines must be pressurized hydraulically.
  - The main line pressure test must be conducted by a licensed irrigation inspector.
  - Perform system testing upon completion of each section. Make necessary repairs and re-test required sections as required.
  - test and demonstrate the controller by operating appropriate day, hour, and station selection features as required to automatically start and shut down irrigation cycles to accommodate plant requirements and weather conditions.
- For additional irrigation requirements not set forth here, use the approved Parks Design and Construction Guidelines.

## MATERIALS

- General:
  - Provide only new material, without flaws or defects of the highest quality of their specified class and kind.
  - Comply with pipe sizes indicated. No substitution of smaller pipes will be permitted. Larger pipe sizes may be used subject to acceptance by the Designer (Landscape Architect) and Parks and Recreation Staff. Remove damage and defective pipe from the site immediately.
  - Provide pipe continuously and permanently marked with manufacturer's name or trademark, size, schedule, type of pipe, working pressure at 73 degrees F., and National Sanitation Foundation (NSF) approval.
- Plastic pipe, fittings, and connections:
  - Polyvinyl chloride pipe: ASTM D2241, rigid, un-plasticized PVC, extruded from virgin parent material. Provide pipe homogeneous throughout and free from visible cracks, holes, foreign materials, blisters, wrinkles, and dents.
  - Distribution laterals: SDR 21, Class 200.
  - Pressure mains: PVC Schedule 40 IPS Plastic Pipe for 4-inch or smaller main lines.
  - Pressure mains: PVC Class 200 IPS Plastic Pipe for main lines larger than 4-inch.
  - PVC Pipe Fittings: ASTM D2241 Schedule 40 PVC molded fittings suitable for solvent weld, or screwed connections. Fittings made of other materials are not permitted.
    - Size slip fitting socket and taper to permit a dry un-softened pipe end to be inserted no more than halfway into the socket. Saddle fittings are not permitted.
    - Schedule 80 PVC pipe may be threaded.
    - Use male adapters for plastic to metal connections. Hand tighten male adapters plus one turn with a strap wrench.
  - Insert fittings: ASTM D2468 insert type fittings.
    - Saddle and cross fittings not permitted.

**PARKS DEPARTMENT**

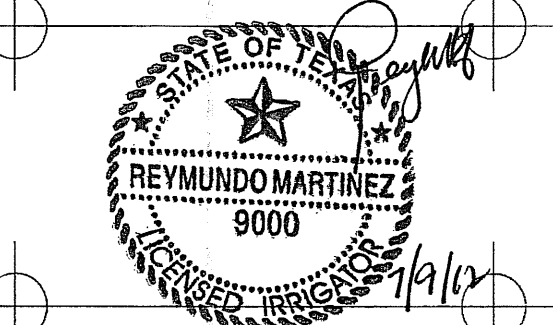
Approved: *Antonio del Rio* ~09/04/2012



LANDSCAPE IRRIGATION  
 Drawn/Design by:  
 Design/Checked by: RV  
 PROJECT:  
 TDE67LI20110601  
 PHASE:  
 PRELIM-FINAL

Sheet no.  
 LI-5  
 Sheet no. 5 of 6

PARK (60,625.25 S.F.)  
 14653 OLDENBERG COURT  
 LOT 1, BLOCK 315  
 TIERRA DEL ESTE UNIT 67



DOUBLE ENTERPRISES  
 8104 STAR AVENUE  
 EL PASO, TX 79907  
 (915) 858-7515

STATION NO.	TOTAL GPM	PRECIPITATION RATE	WATERING REQUIREMENTS	HEAD TYPE	NO. OF HEADS	NOZZLE SIZE	VALVE SIZE
1	66	1.24 in/hr	58 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	AJDL	10	#7	2"
2	66	0.60 in/hr	120 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	AJDL	10	#7	2"
3	66	0.60 in/hr	120 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	AJDL	10	#7	2"
4	66	1.24 in/hr	58 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	AJDL	10	#7	2"
5	59.4	1.24 in/hr	58 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	AJDL	9	#7	2"
6	66	0.60 in/hr	120 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	AJDL	10	#7	2"
7	66	1.24 in/hr	58 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	AJDL	10	#7	2"
8	52.8	0.60 in/hr	120 MINS. PER DAY FOR AN APPLICATION OF 1.2" PER DAY	AJDL	8	#7	2"
9	5 GPH						

Total Run Time: 11 hrs. 52 min.

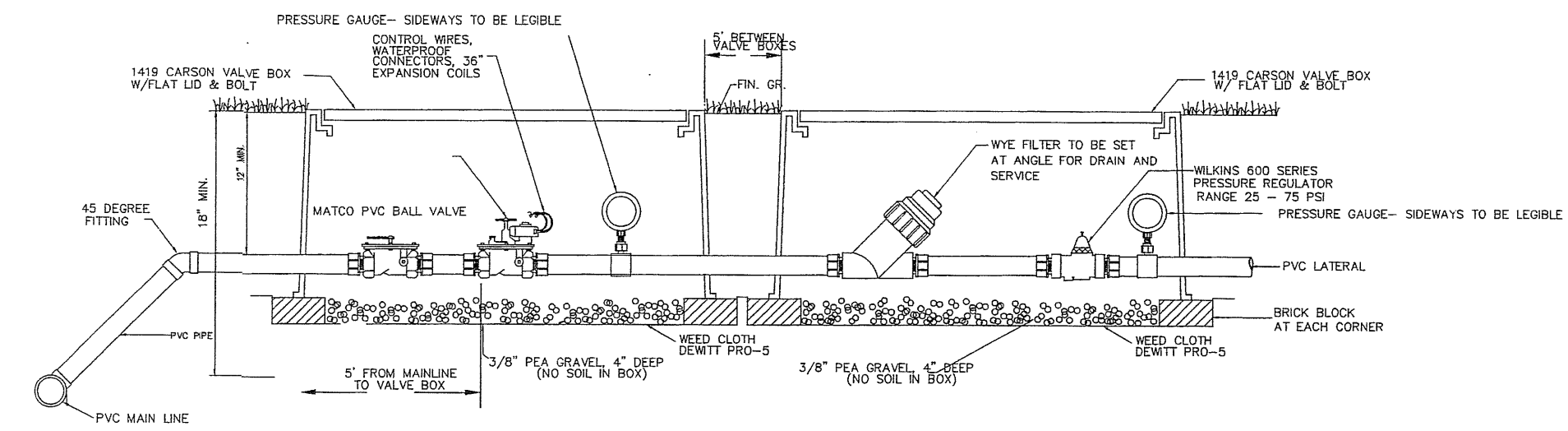
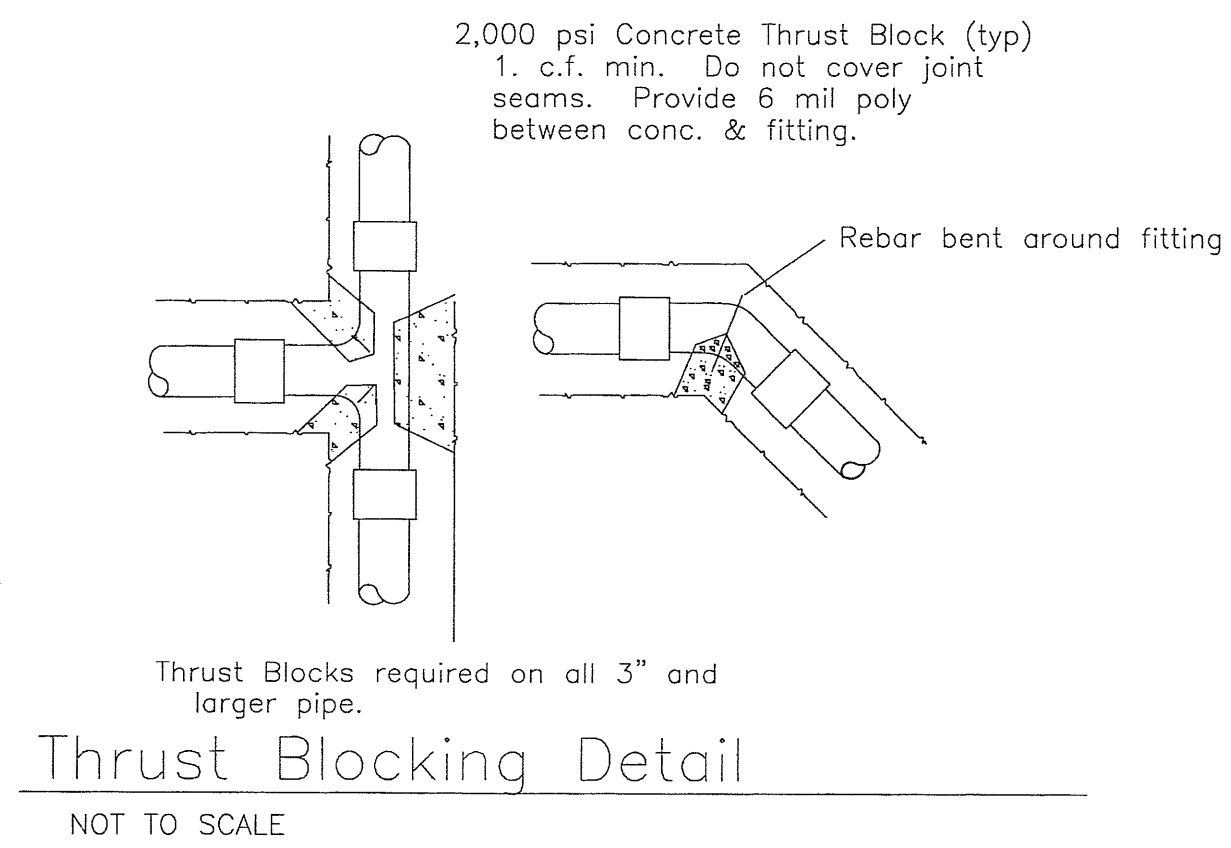
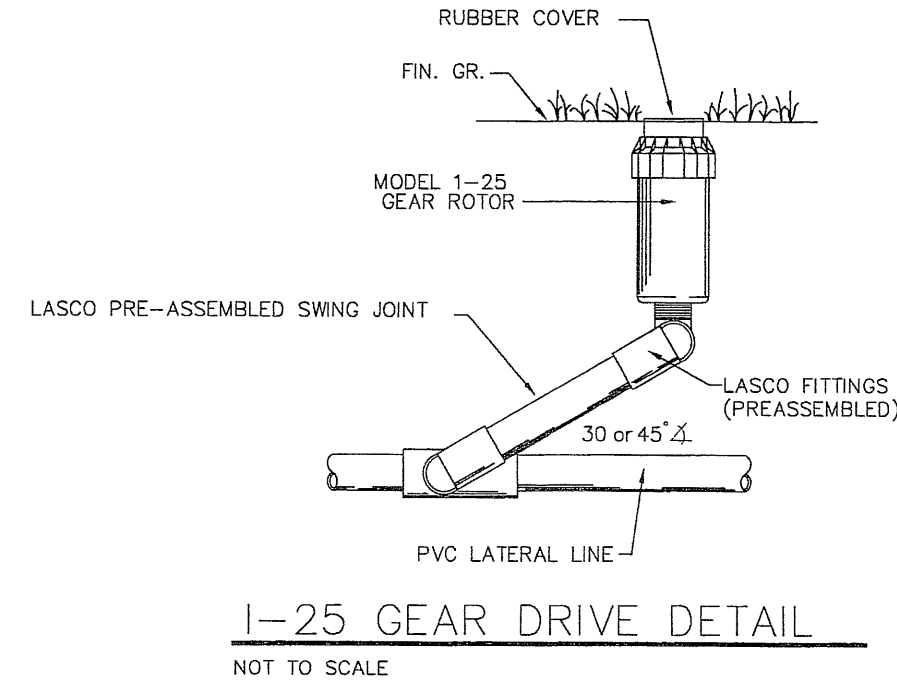
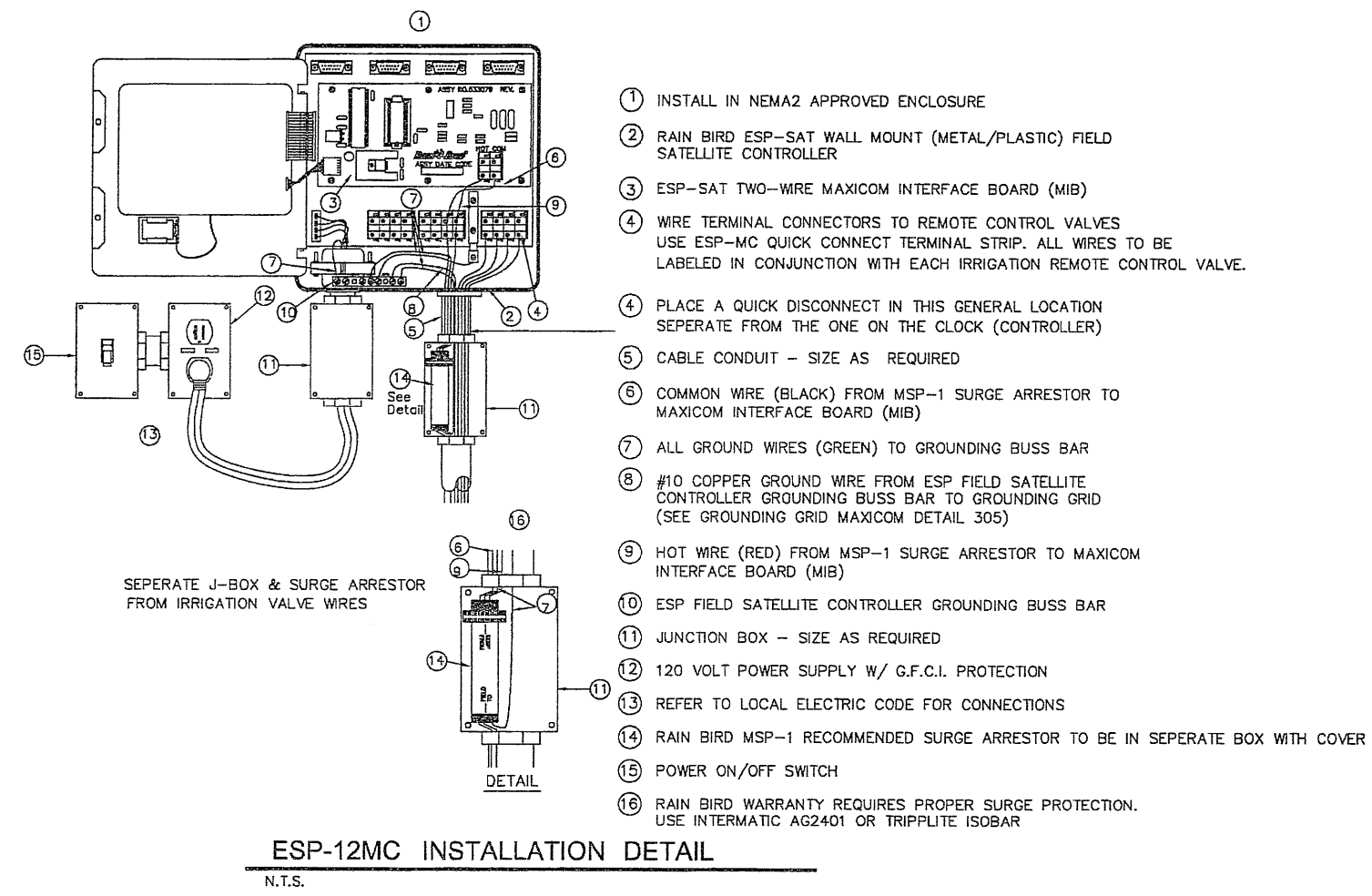
Total Run Time for stations 1, 4, 5, 7 = 20 minutes 3 times per day  
 Total Run Time for stations 2, 3, 6, 8 = 40 minutes 3 times per day  
 Total Run Time for station 9 = 25 minutes 3 times per day

Precipitation rate part circles =  $\frac{(gpm \text{ one hd}) \times 96.25}{(\text{head spacing})^2 \times 4.33} = \frac{(6.6) \times 96.25}{(34.4)^2 \times 4.33} = \frac{635.25}{512.39} = 1.24 \text{ in/hr}$

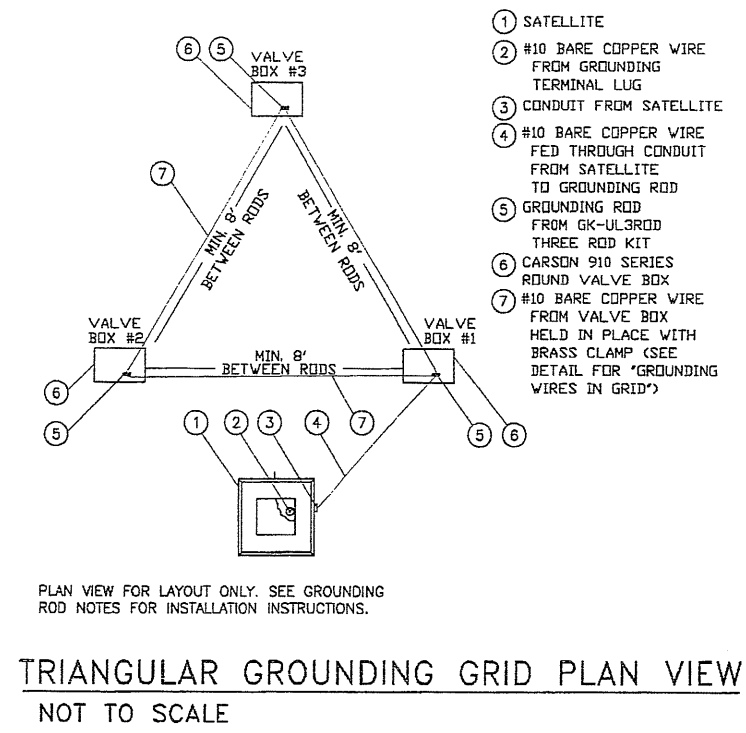
Precipitation rate full circles =  $\frac{(gpm \text{ one hd}) \times 96.25}{(\text{hd space} \times \text{row space})} = \frac{(6.6) \times 96.25}{(34.4) \times (30.7)} = \frac{635.25}{1056.08} = 0.60 \text{ in/hr}$

2" Water meter @ 66 gpm	3.1 Psi Loss
2" Type 'K' Copper 20' @ 66 gpm	0.90 Psi Loss
2" Febco 825YA Backflow @ 66 gpm	4.00 Psi Loss
3" SCHEDULE 40 PVC Pipe 38' @ 66 gpm (MAIN)	0.14 Psi Loss
2 1/2" SCHEDULE 40 PVC Pipe 262' @ 66 gpm (LOOPED)	1.29 Psi Loss
2" Weathermatic 8200 CR-10 Valve @ 66 gpm	2.0 Psi Loss
2 1/2" C 150 200 PSI PVC Pipe 43.7' @ 66 gpm	0.43 Psi Loss
1 1/2" C 150 200 PSI PVC Pipe 26' @ 26.4 gpm	0.35 Psi Loss
1" C 150 200 PSI PVC Pipe 29' @ 13.2 gpm	0.66 Psi Loss
1" C 150 200 PSI PVC Pipe 34.4' @ 6.6 gpm	0.25 Psi Loss
<b>TOTAL PRESSURE LOSS</b>	<b>13.12 Psi Loss</b>
<b>AVAILABLE PRESSURE LESS THE LOSS (55-13.58)</b>	<b>41.88 Psi</b>
<b>PRESSURE REQUIRED AT CRITICAL HEAD</b>	<b>40.00 Psi</b>

NOTE: IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TEXAS 78711-3087, (512) 239-6719



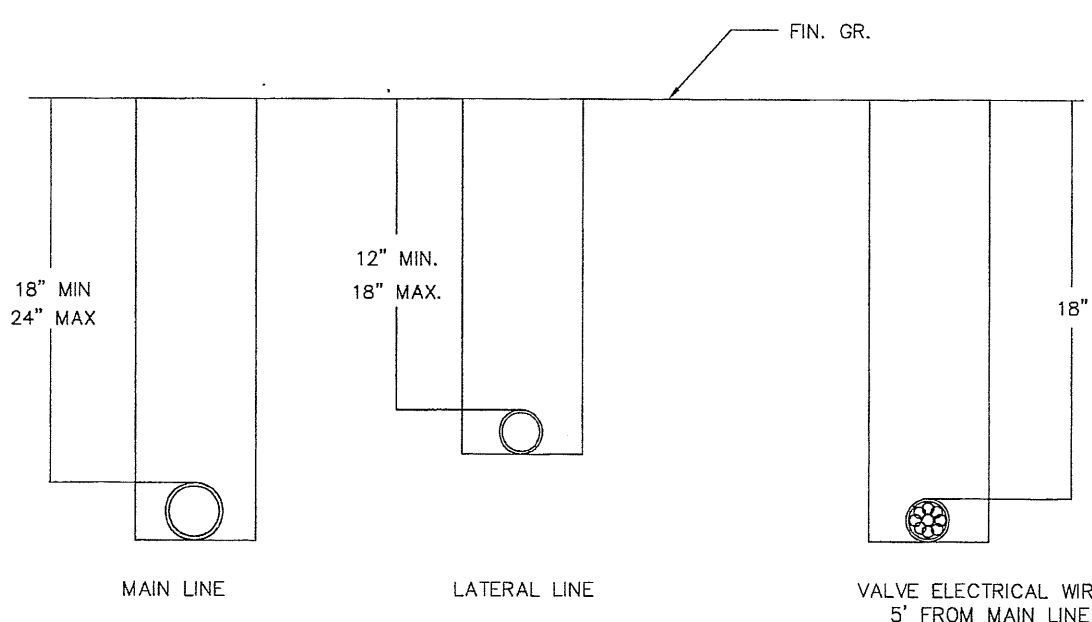
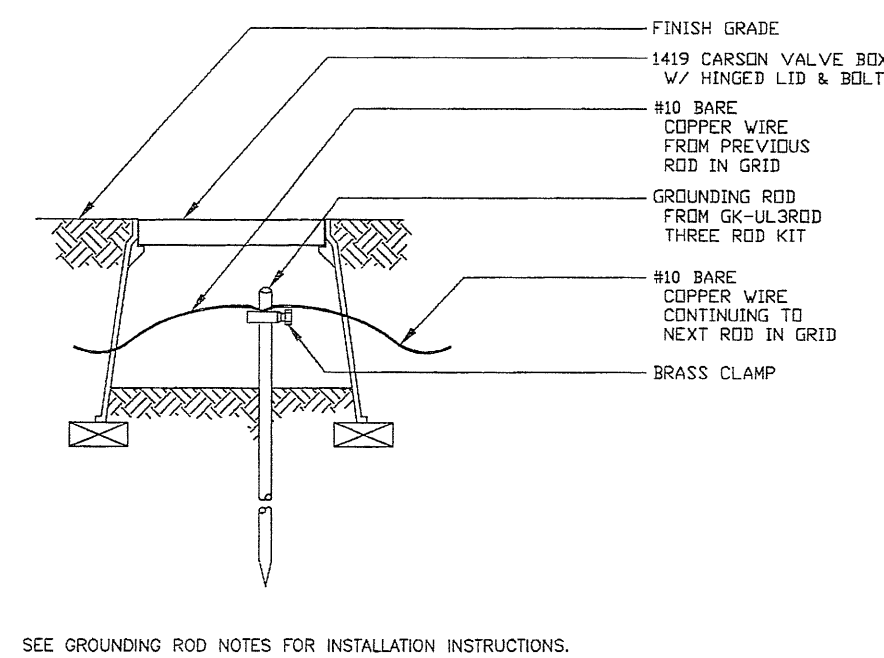
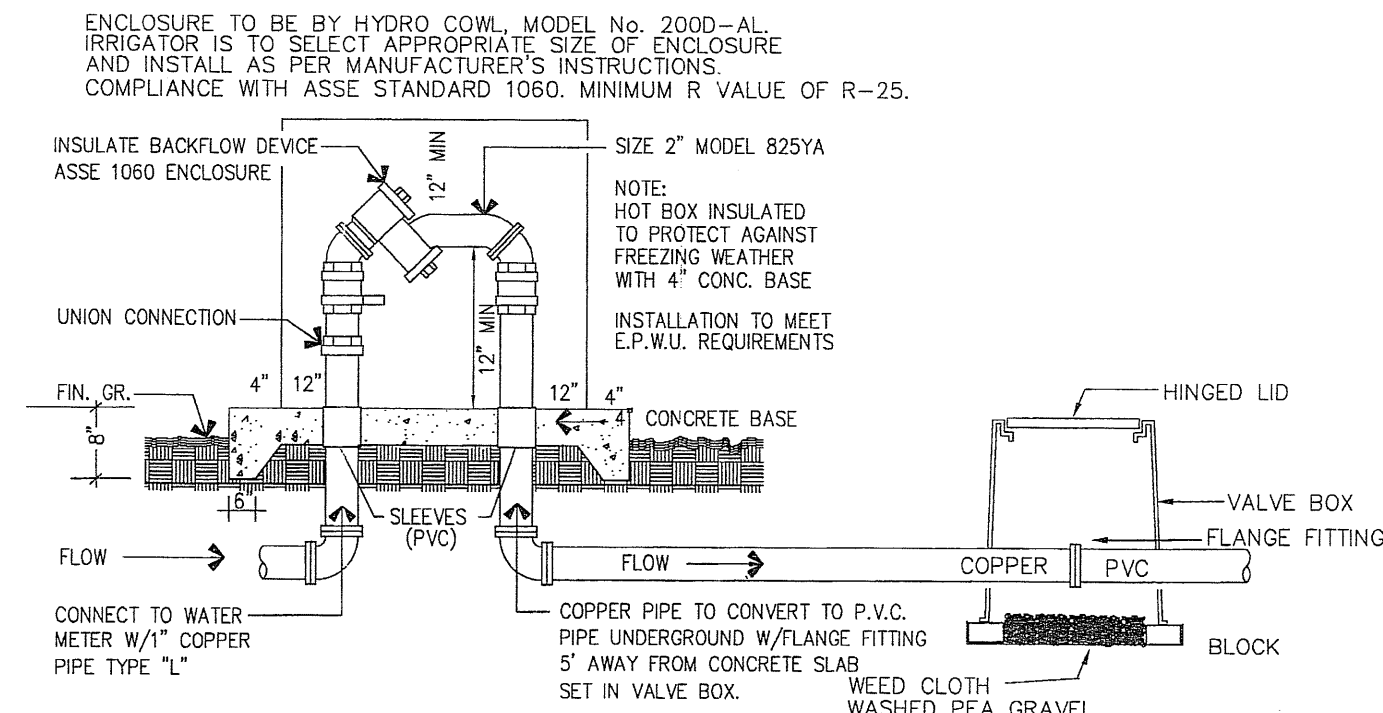
ALL WEED CLOTH AROUND VALVE AND EMITTER BOXES SHOULD BE TAPED AND SEALED AROUND PENETRATIONS TO PREVENT SOILS FROM ERODING INTO BOXES.



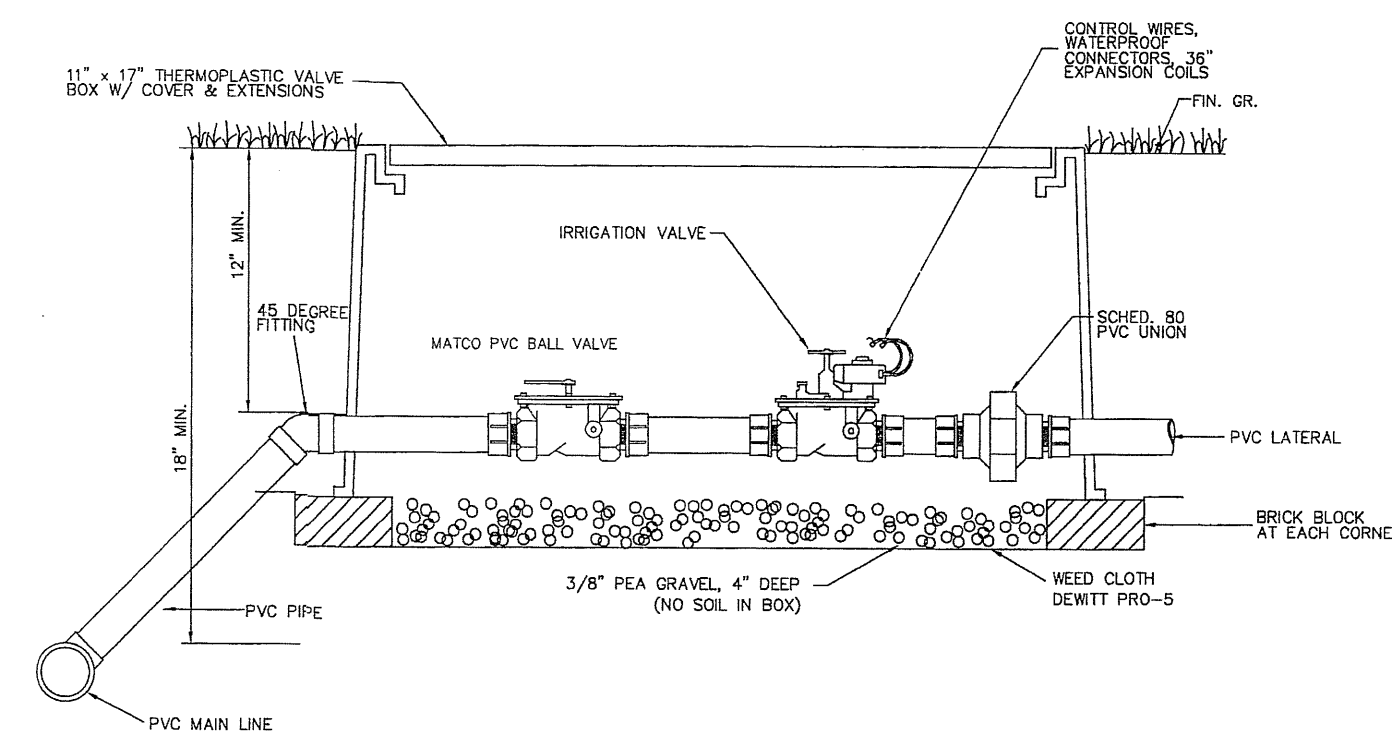
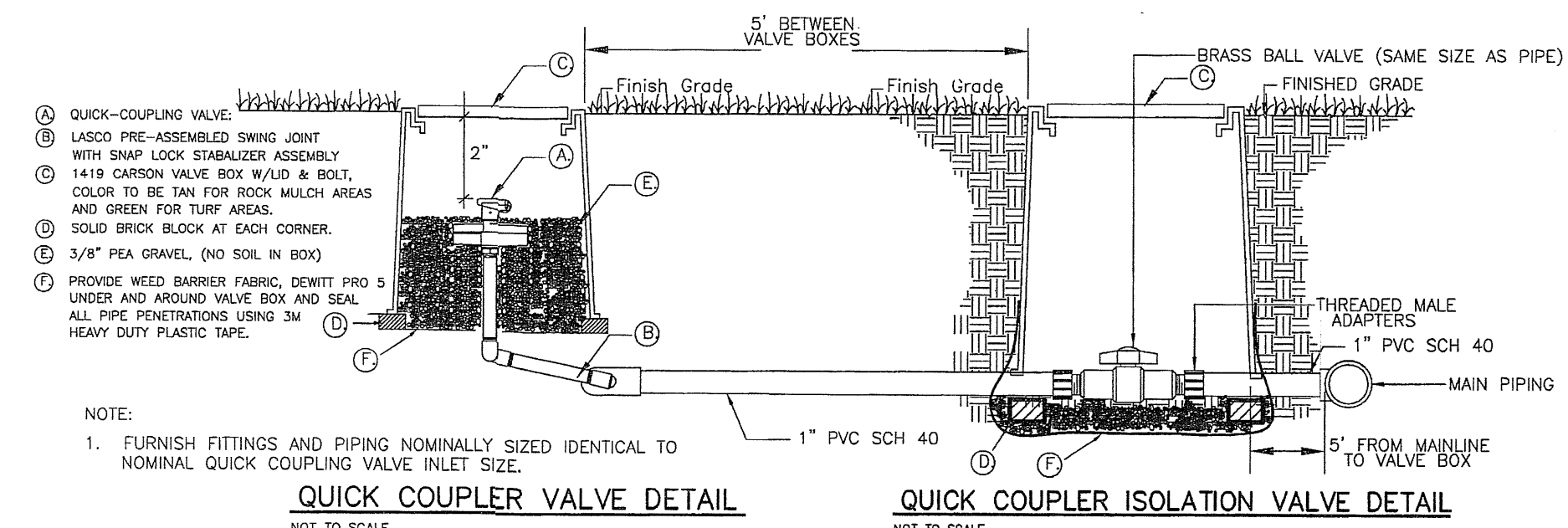
**GROUNDING ROD NOTES:**

GROUNDING RODS SERVE AS ELECTRODES FOR SURGE DEVICES TO DISSIPATE THE SURGE INTO THE EARTH. REMEMBER THESE TIPS WHEN INSTALLING THEM:

- ALWAYS USE A 5/8-INCH X 8-FOOT COPPER CLAD ROD.
- RUN A #10 OR LARGER BARE COPPER WIRE FROM THE DEVICE TO THE ROD.
- KEEP THE GROUND WIRES AS SHORT AND STRAIGHT AS POSSIBLE FROM THE DEVICE TO THE FIRST ROD.
- CLAMP ALL WIRES TO THE GROUNDING ROD. DO NOT SOLDER OR TAPE THEM TO THE ROD.
- ALWAYS USE A SEPERATE CLAMP TO ATTACH EACH WIRE TO A ROD.
- TO INSTALL GROUNDING ROD, USE GK-TOOLS ROD DRIVING SLEEVE.
- SPACE THREE RODS IN A TRIANGULAR GRID AT LEAST 8 FEET APART FROM THE OTHERS IN THE GRID. CONNECT ALL THREE RODS WITH A SOLID #10 COPPER WIRE.
- WHEN TESTED WITH THE PROPER EQUIPMENT, GRIDS SHOULD HAVE AN EARTH RESISTANCE NO GREATER THAN 15 OHMS.
- WHENEVER MORE THAN ONE WIRE IS ATTACHED TO A GROUNDING ROD ALWAYS USE A SEPERATE CLAMP FOR EACH WIRE. TRYING TO INSTALL MORE THAN ONE WIRE PER CLAMP COULD CAUSE A POOR CONNECTION RESULTING IN HIGH RESISTANCE LEVELS.



MAIN LINE, LATERAL LINE AND VALVE ELECTRICAL WIRES SHALL EACH BE INSTALLED IN SEPERATE TRENCHES.



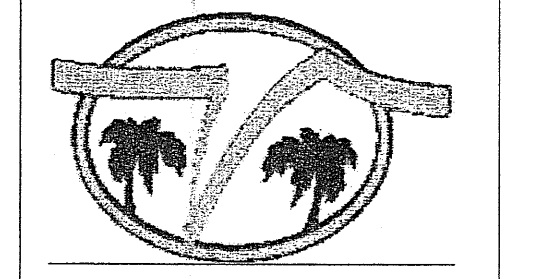
ALL VALVE BOXES TO HAVE ONE COURSE OF BLOCKS AT BOTTOM AND INSTALL EXTENSION BOXES TO SET TOP AT GRADE. INSURE THAT THERE IS A GAP BETWEEN VALVE BOX AND PIPE.

**PARKS DEPARTMENT**

*Antonio...*  
Approved

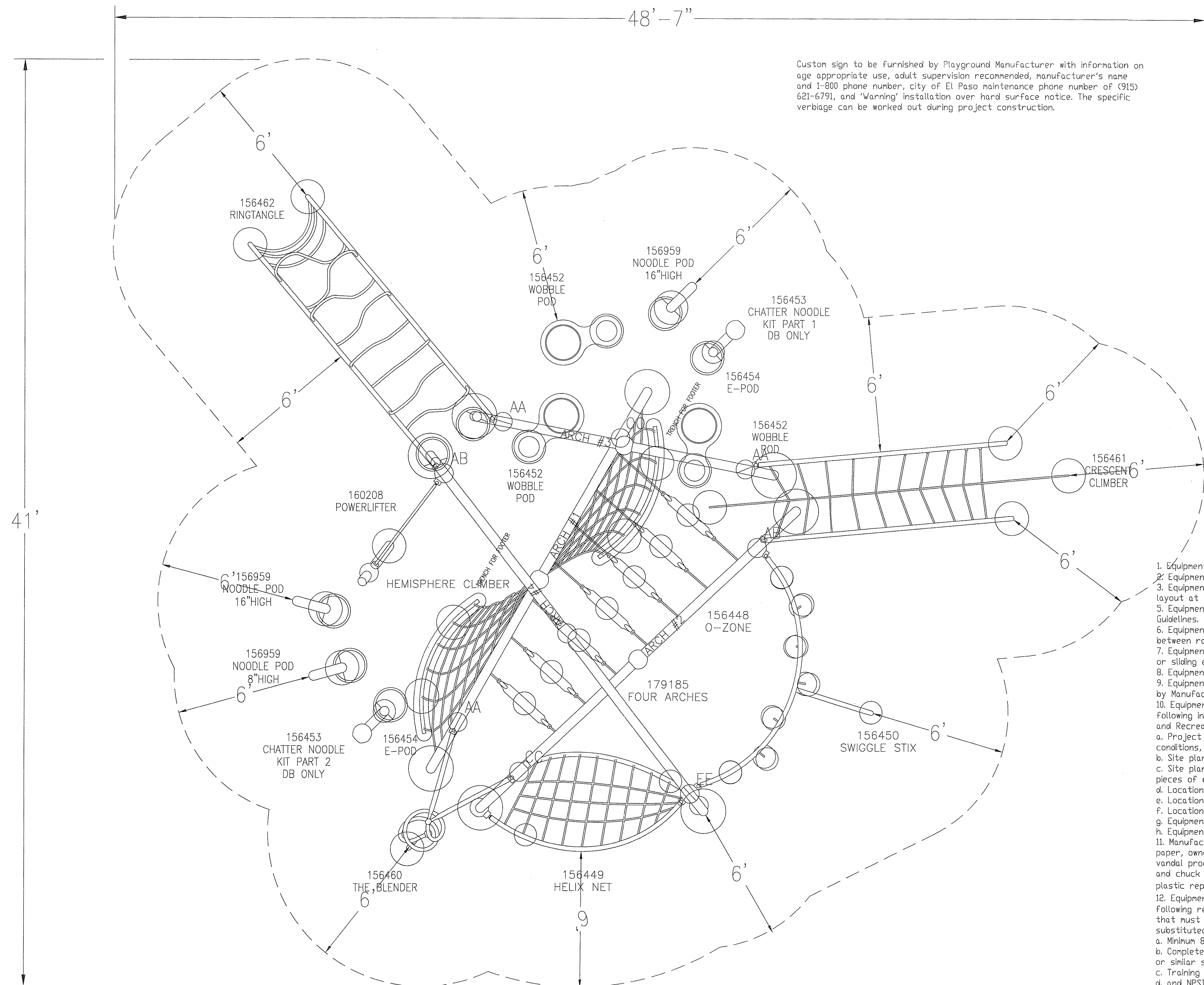
PARK (60,625.25 S.F.)  
14653 OLDENBERG COURT  
LOT 1, BLOCK 315  
TIERRA DEL ESTE UNIT 67

DOUBLE V ENTERPRISES  
8104 STAR AVENUE  
EL PASO, TX 79907  
(915) 858-7515



LANDSCAPE IRRIGATION  
Drawn/Design by:  
Design/Checked by: RV  
PROJECT:  
TDE67LI20110601  
PHASE:  
PRELIM-FINAL

Sheet no.  
LI-6  
Sheet no. 6 of 6



Custom sign to be furnished by Playground Manufacturer with information on age appropriate use, adult supervision recommended, manufacturer's name and 1-800 phone number, city of El Paso maintenance phone number of (915) 621-6791, and 'Warning' installation over hard surface notice. The specific verbiage can be worked out during project construction.

1. Equipment and components to be IPEMA certified.
2. Equipment manufacturer to comply with ISO 9001.
3. Equipment manufacturer to provide clear installation manual and project layout at the completion of project. Hard copy.
4. Equipment manufacturer to provide clear installation manual and project layout at the completion of project. Hard copy.
5. Equipment and Fall Surfacing must comply with current Standards and Guidelines.
6. Equipment to be called out with lengths for Overhead Activities, spacing between rails for Curley Climbers, Track Rides, etc.
7. Equipment to have safety top rail with a minimum of 72-inches at climbing or sliding elements.
8. Equipment manufacturer sales representative to be NPSI certified.
9. Equipment installation to be inspected and certified for proper assembly by Manufacturer Representative NPSI certified.
10. Equipment must be superseded by submittal packets that have the following information for review and release by Project Designer and Parks and Recreation Staff:
  - a. Project site plan reflecting construction drawings or actual field conditions,
  - b. Site plan with construction control point,
  - c. Site plan with dimensions for all use zones and between independent pieces of equipment,
  - d. Location of containment wall or curb,
  - e. Location, limits and dimensions of accessible path of travel.
  - f. Location of any shade canopies as applicable,
  - g. Equipment color selection chart, and
  - h. Equipment information including installation.
11. Manufacturer to provide sealed maintenance kit to include: tool box, sand paper, owners manual, hardware (20 pieces each minimum) assorted sizes of vandal proof nuts, bolts, washers, fastening tools (one each size - wrench and chuck keys), 4 cans of primer, 2 cans of each color of touch-up paint, plastic repair kit, anti-graffiti remover.
12. Equipment installation to be performed by contractor meeting the following requirements (a. and b. are installation experience requirements that must be met, c. and d. are optional requirements that may be substituted for either a or b.)
  - a. Minimum 8 years experience installing same equipment,
  - b. Complete, good quality installation of a minimum of 20 structures of same or similar size,
  - c. Training and certification by equipment manufacturer,
  - d. and NPSI certification.
13. Equipment and Fall surfaces to be audited and tested by an independent contractor (Play Safe, LLC, Inc). Audit to include: audit date, auditor(s) name(s), equipment inventory, and plan view with dimensions of playground improvements, equipment manufacturer, and fall surfaces manufacturer with toll free numbers. Any items found deficient in audit must be corrected and a re-audit of corrected item to insure that all deficient items are addressed.
14. Playground area to be fenced and properly secured throughout course of construction and up to acceptance project.
15. Equipment to have minimum 72' safety use (fall) zone ASTM 1487-11.
16. Construction Work on playground area will not commence until all materials and supplies are in possession of contractors.
17. Equipment to be installed prior to any associated playground area improvements.
18. Contractor will insure that work progress will be ongoing and job site will not be left abandoned for any time period greater than 48 hours.
19. Contractor will insure that job site is kept clean and clear of any construction debris on a daily basis.

**landscape structures**



The play components identified on this plan are IPEMA certified. (Unless otherwise noted) The use and layout of these components conform to the Canadian Standards Association (CSA) Standard CAN/CSA-Z614.

THIS PLAY AREA & EQUIPMENT IS DESIGNED FOR AGES 5-12 YEARS UNLESS OTHERWISE NOTED ON PLAN.

IT IS THE MANUFACTURERS OPINION THAT THIS PLAY AREA DOES CONFORM TO THE A.D.A. ACCESSIBILITY GUIDELINES (ADAAG), ASSUMING AN ACCESSIBLE PROTECTIVE SURFACING IS PROVIDED, AS INDICATED, OR WITHIN THE ENTIRE USE ZONE.

THIS CONCEPTUAL PLAN WAS BASED ON INFORMATION AVAILABLE TO US. PRIOR TO CONSTRUCTION, DETAILED SITE INFORMATION INCLUDING SITE DIMENSIONS, TOPOGRAPHY EXISTING UTILITIES, SOIL CONDITIONS, AND DRAINAGE SOLUTIONS SHOULD BE OBTAINED, EVALUATED, & UTILIZED IN THE FINAL DESIGN. PLEASE VERIFY ALL DIMENSIONS OF PLAY AREA, SIZE, ORIENTATION, AND LOCATION OF ALL EXISTING UTILITIES, EQUIPMENT, AND SITE FURNISHINGS PRIOR TO ORDERING. SLIDES SHOULD NOT FACE THE HOT AFTERNOON SUN.

CHOOSE A PROTECTIVE SURFACING MATERIAL THAT HAS A CRITICAL HEIGHT VALUE TO MEET THE MAXIMUM FALL HEIGHT FOR THE EQUIPMENT (REF. ASTM F1487 STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT FOR PUBLIC USE, SECTION B CURRENT REVISION).

ACCESSIBLE/PROTECTIVE LOOSE FILL MATERIAL (ENGINEERED WOOD FIBER SUGGESTED)

DESIGNED BY:

COPYRIGHT: LANDSCAPE STRUCTURES, INC. 601 7th STREET SOUTH - P.O. BOX 198 DELANO, MINNESOTA 55328 PH: 1-800-328-0035 FAX: 1-763-972-6091

Date	Previous Drawing #	Initials

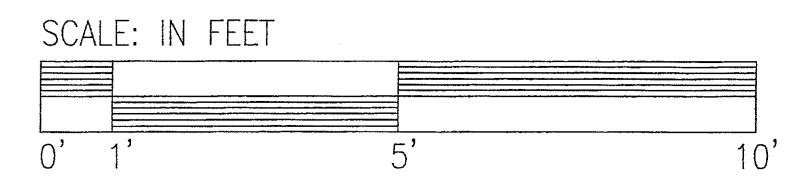
**EVOS ARCH CLAMPS**

- OO Clamp No Faces (0-0)
- AA Clamp One Face (A-A)
- AB Clamp Two Faces 90\* (A-B)
- CC Clamp Two Faces 180\* (C-C)
- EE Clamp Two Faces 180\* (E-E)

**PARKS DEPARTMENT**

*Antonio del Rio - 09/04/2012*  
Approved

TOTAL ELEVATED PLAY COMPONENTS	0		
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	0	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	0	REQUIRED	0
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	13	REQUIRED	0
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	10	REQUIRED	10



Design # 3459

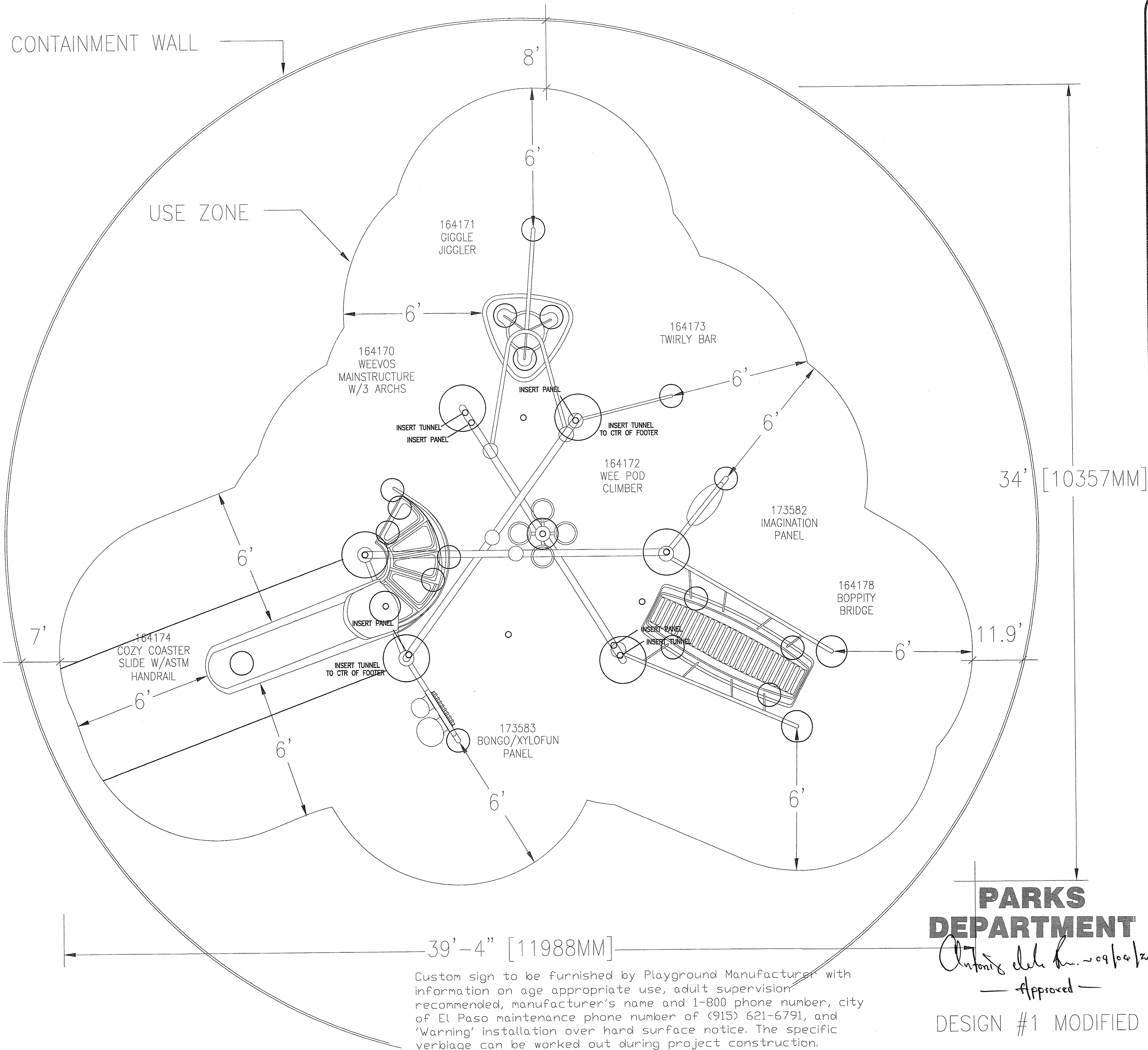
Landscape Structures

SYSTEM TYPE: EVOS

DRAWING #: 2012-06



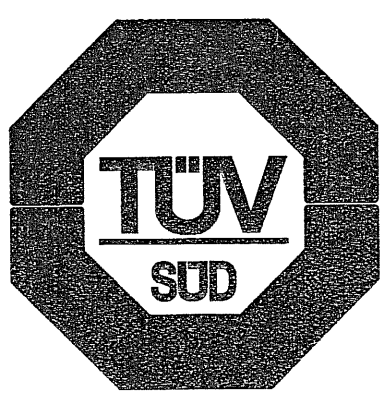
1. Equipment and components to be IPEMA certified.
2. Equipment manufacturer to comply with ISO 9001.
3. Equipment manufacturer to provide clear installation manual and project layout at the completion of project: Hard copy.
5. Equipment and Fall Surfacing must comply with current Standards and Guidelines.
6. Equipment to called out with lengths for Overhead Activities, spacing between rails for Curley Climbers, Track Rides, etc.
7. Equipment to have safety top rail with a minimum of 72-inches at climbing or sliding elements.
8. Equipment manufacturer sales representative to be NPSI certified.
9. Equipment installation to be inspected and certified for proper assembly by Manufacturer Representative NPSI certified.
10. Equipment must be superseded by submittal packets that have the following information for review and release by Project Designer and Parks and Recreation Staff:
  - a. Project site plan reflecting construction drawings or actual field conditions,
  - b. Site plan with construction control point,
  - c. Site plan with dimensions for all use zones and between independent pieces of equipment,
  - d. Location of containment wall or curb,
  - e. Location, limits and dimensions of accessible path of travel.
  - f. Location of any shade canopies as applicable,
  - g. Equipment color selection chart, and
  - h. Equipment information including installation.
11. Manufacturer to provide sealed maintenance kit to include: tool box, sand paper, owners manual, hardware (20 pieces each minimum) assorted sizes of vandal proof nuts, bolts, washers, fastening tools (one each size - wrench and chuck keys), 4 cans of primer, 2 cans of each color of touch-up paint, plastic repair kit, anti-graffiti remover.
12. Equipment installation to be performed by contractor meeting the following requirements (a. and b. are installation experience requirements that must be met, c. and d. are optional requirements that may be substituted for either a or b.)
  - a. Minimum 8 years experience installing same equipment,
  - b. Complete, good quality installation of a minimum of 20 structures of same or similar size.
  - c. Training and certification by equipment manufacturer,
  - d. and NPSI certification.
13. Equipment and Fall surfaces to be audited and tested by an independent contractor (Play Safe, LLC, Inc.). Audit to include: audit date, auditor(s) name(s), equipment inventory, and plan view with dimensions of playground improvements, equipment manufacturer, and fall surfaces manufacturer with toll free numbers. Any items found deficient in audit must be corrected and a re-audit of corrected item to insure that all deficient items are addressed.
14. Playground area to be fenced and properly secured throughout course of construction and up to acceptance project.
15. Equipment to have minimum 72" safety use (fall) zone ASTM 1487-11.
16. Construction Work on playground area will not commence until all materials and supplies are in possession of contractors.
17. Equipment to be installed prior to any associated playground area improvements.
18. Contractor will insure that work progress will be ongoing and job site will not be left abandoned for any time period greater than 48 hours.
19. Contractor will insure that job site is kept clean and clear of any construction debris on a daily basis.



Custom sign to be furnished by Playground Manufacturer with information on age appropriate use, adult supervision recommended, manufacturer's name and 1-800 phone number, city of El Paso maintenance phone number of (915) 621-6791, and 'Warning' installation over hard surface notice. The specific verbiage can be worked out during project construction.

**PARKS DEPARTMENT**  
*Antonio del...*  
 Approved  
 DESIGN #1 MODIFIED

*LSI*  
**landscape structures**



IT IS THE MANUFACTURERS OPINION AND INTENT THAT THE USE AND LAYOUT OF THESE COMPONENTS CONFORM WITH THE EUROPEAN STANDARDS EN 1176.

THIS PLAY AREA & EQUIPMENT IS DESIGNED FOR AGES 2-5 YEARS UNLESS OTHERWISE NOTED ON PLAN.

THIS CONCEPTUAL PLAN WAS BASED ON INFORMATION AVAILABLE TO US. PRIOR TO CONSTRUCTION, DETAILED SITE INFORMATION INCLUDING SITE DIMENSIONS, TOPOGRAPHY EXISTING UTILITIES, SOIL CONDITIONS, AND DRAINAGE SOLUTIONS SHOULD BE OBTAINED, EVALUATED, & UTILIZED IN THE FINAL DESIGN. PLEASE VERIFY ALL DIMENSIONS OF PLAY AREA, SIZE, ORIENTATION, AND LOCATION OF ALL EXISTING UTILITIES, EQUIPMENT, AND SITE FURNISHINGS PRIOR TO ORDERING. SLIDES SHOULD NOT FACE THE HOT AFTERNOON SUN.

CHOOSE A PROTECTIVE SURFACING MATERIAL THAT HAS A CRITICAL HEIGHT VALUE OF AT LEAST THE HEIGHT OF THE HIGHEST ACCESSIBLE PART/FALL HEIGHT OF THE ADJACENT EQUIPMENT. (REF. CONSUMER PRODUCT SAFETY COMMISSION (CPSC) GUIDELINES, SECTION 10: SURFACING.)

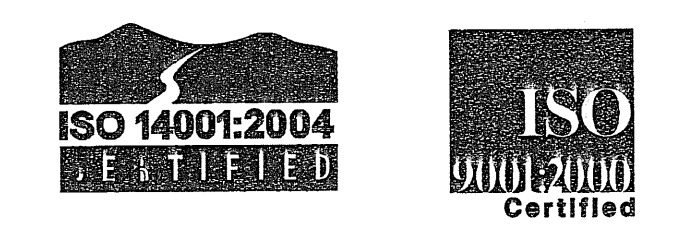
ACCESSIBLE/PROTECTIVE LOOSE FILL MATERIAL (ENGINEERED WOOD FIBER SUGGESTED)

DESIGNED BY:  
 LSI

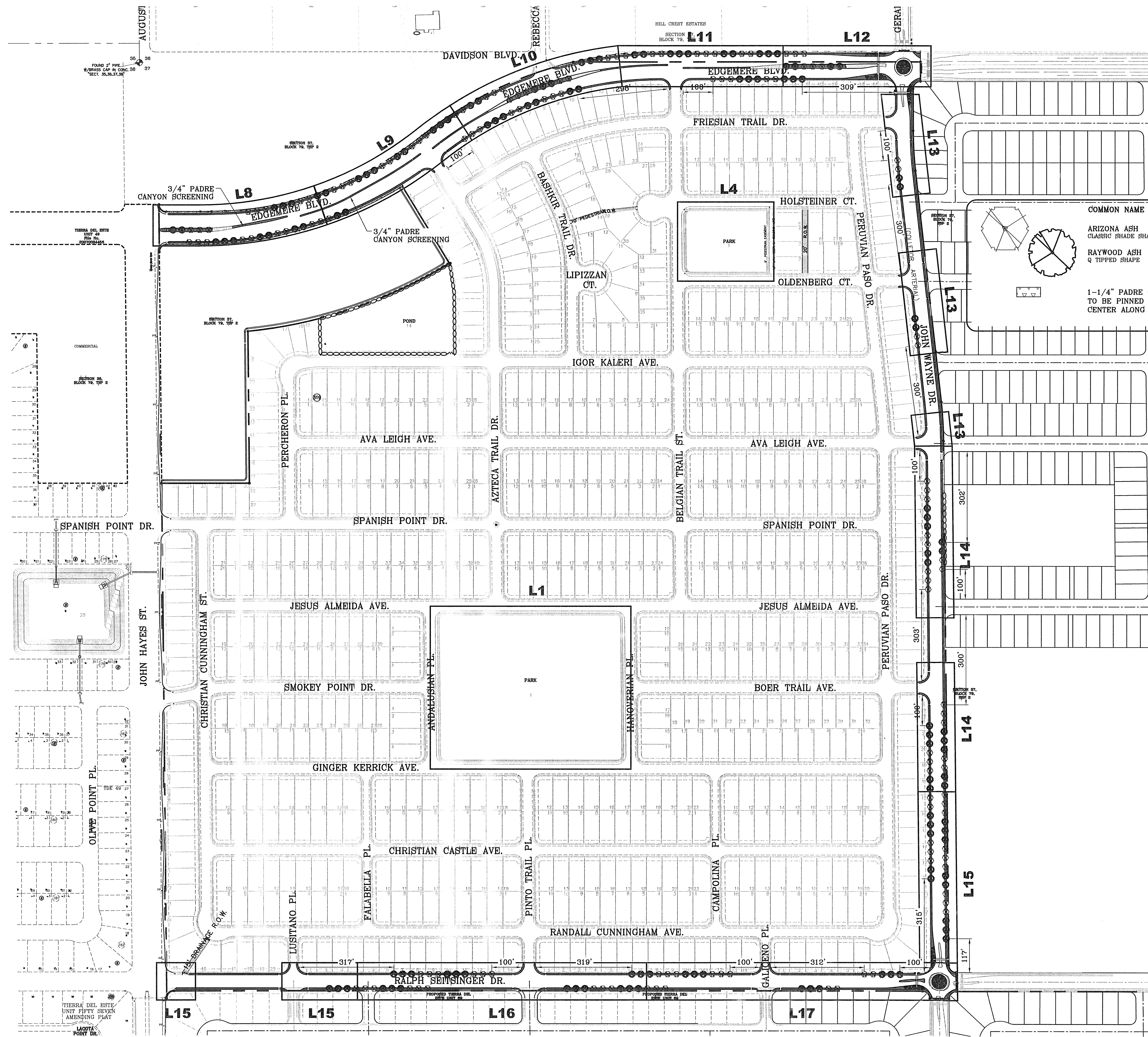
COPYRIGHT: 2/14/11  
 LANDSCAPE STRUCTURES, INC.  
 601 7th STREET SOUTH - P.O. BOX 198  
 DELANO, MINNESOTA 55328  
 PH: 1-800-328-0035 FAX: 1-763-972-6091

Date	Previous Drawing #	Initials

SCALE: SNAP TITLE HERE 	NORTH ARROW 	DESIGN #3064 MODIFIED WEEVOS DESIGN #1	LANDSCAPE STRUCTURES SYSTEM TYPE: WEEVOS DRAWING #: 3064
-------------------------------	-----------------	---	--



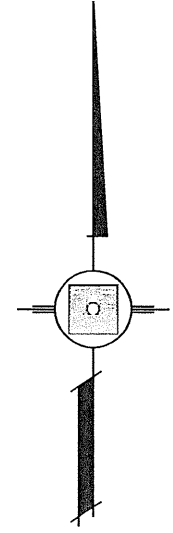




**LEGEND**

COMMON NAME	FRAXINUS VELUTINA	2" CAL.	126
ARIZONA ASH CLASSIC SHADE SHAPE			
RAYWOOD ASH Q TIPPED SHAPE	FRAXINUS ANGUSTIFOLIA	2" CAL.	120

1-1/4" PADRE CANYON RED, WITH DeWitt Pro-6 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12' ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE	REVISIONS	BY

**PROJECT NAME**  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 166.264± ACRES

**S C A L E**

HORIZ.	VERT.
AS SHOWN	AS SHOWN

DATE: AUGUST 2011  
 DESIGN BY: OM  
 INITIATED BY: OM  
 CHECKED BY: YC  
 JOB NO.: 1110-1B

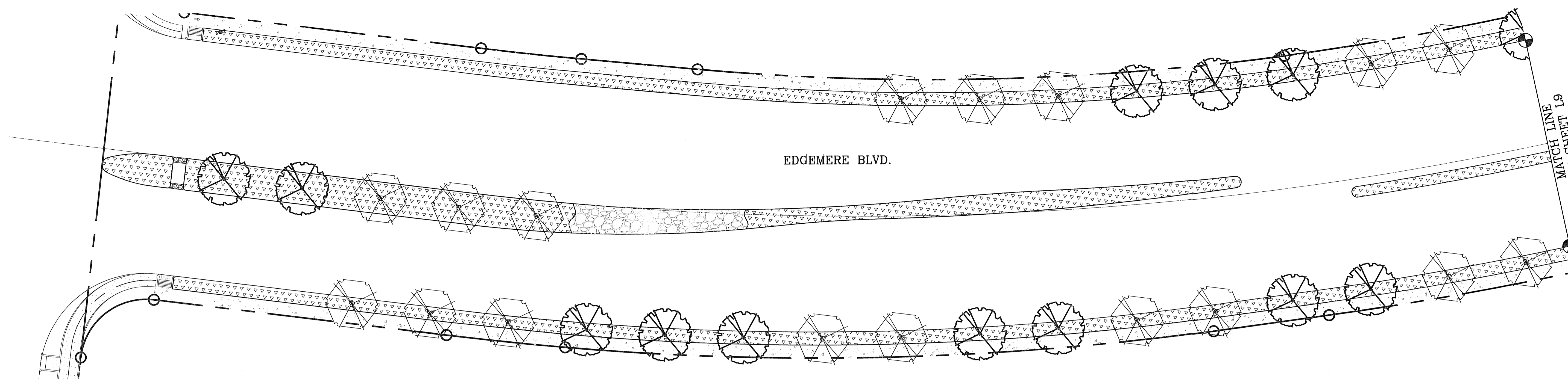
**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286



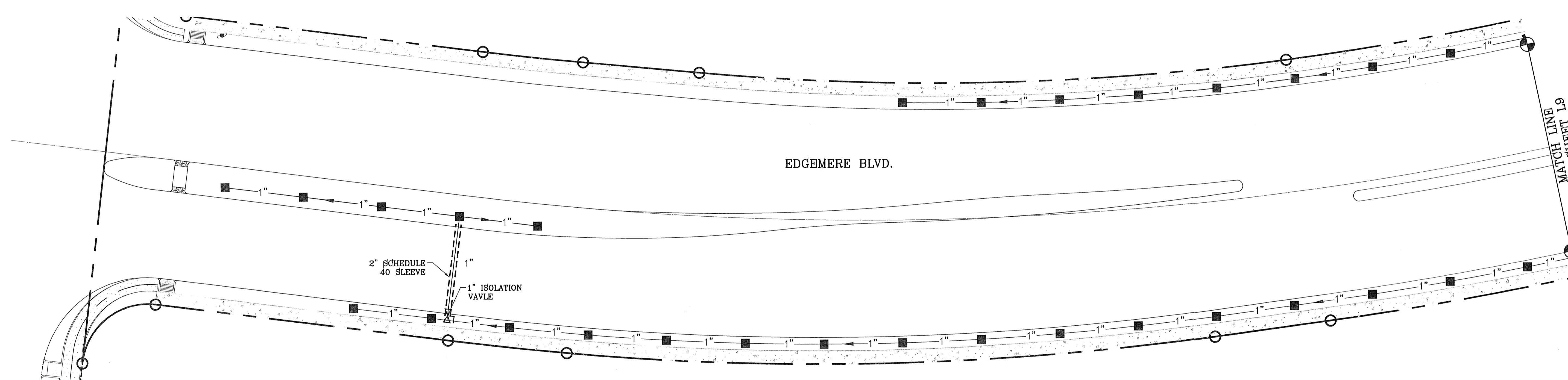
SHEET TITLE

**KEY MAP**

FILE LOCATION S:\LANDSCAPE\TDE 67\TDE\_67-LANDSCAPE & IRRIGATION PLOTTED ON Thursday, August 23, 2012 9:22:59 AM BY OSCAR MEDINA



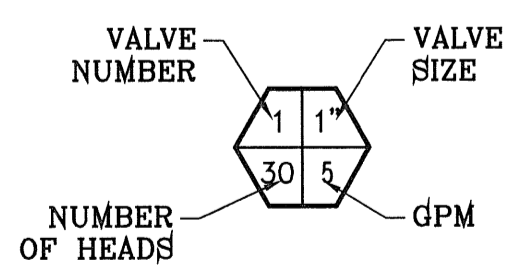
### LANDSCAPE PLAN



### IRRIGATION PLAN

LEGEND				
COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY	
ARIZONA ASH CLASSIC SHADE SHAPE	FRAXINUS VELUTINA	2" CAL.	126	
RAYWOOD ASH Q TIPPED SHAPE	FRAXINUS ANGUSTIFOLIA	2" CAL.	120	
1"-3" RIVER ROCK, 3" DEPTH				
1-1/4" PADRE CANYON RED, WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS				

LEGEND	
	BOUNDARY LINE
	TYPE K 1" COPPER WATER TUBE
	1" PVC SCHEDULE 40 WATER MAIN
	PVC SCHEDULE 40 WATER LATERAL (SIZE AS NOTED)
	PVC SCHEDULE 40 SLEEVE (TWICE THE SIZE OF PIPE)
	ONE-1" WATER METER BY DEVELOPER (SEE SHEET L16)
	1" DOUBLE CHECK ASSEMBLY FEBCO MODEL 850
	TBOS BATTERY OPERATED CONTROL MODULE
	1" REMOTE CONTROL VALVE
	XERIBIRD 8 EMMITER
	PIPE SIZE (SCHEDULE 40)
	STUB OUT WITH FOR FUTURE DRIP
	ISOLATION BRASS BALL VALVE
	WILKINS BF4 BRONZE BODY OR IN-LINE PRESSURE REGULATOR



SCALE: 1"=20'

SCALE: 1"=20'

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE	REVISIONS	BY

PROJECT NAME

**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 97, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

SCALE

HORIZ: 1"=20'

VERT: ---

DATE: AUGUST 2011

DESIGN BY: OM

INITIATED BY: OM

CHECKED BY: YC

JOB NO.: 1110-18

IRRIGATOR'S SEAL

CONDE INC.

ENGINEERING / PLANNING SURVEYING / GPS

6080 SURETY DR. SITE 100 EL PASO, TEXAS 79905

PHONE: (915) 592-0283

FAX: (915) 592-0286

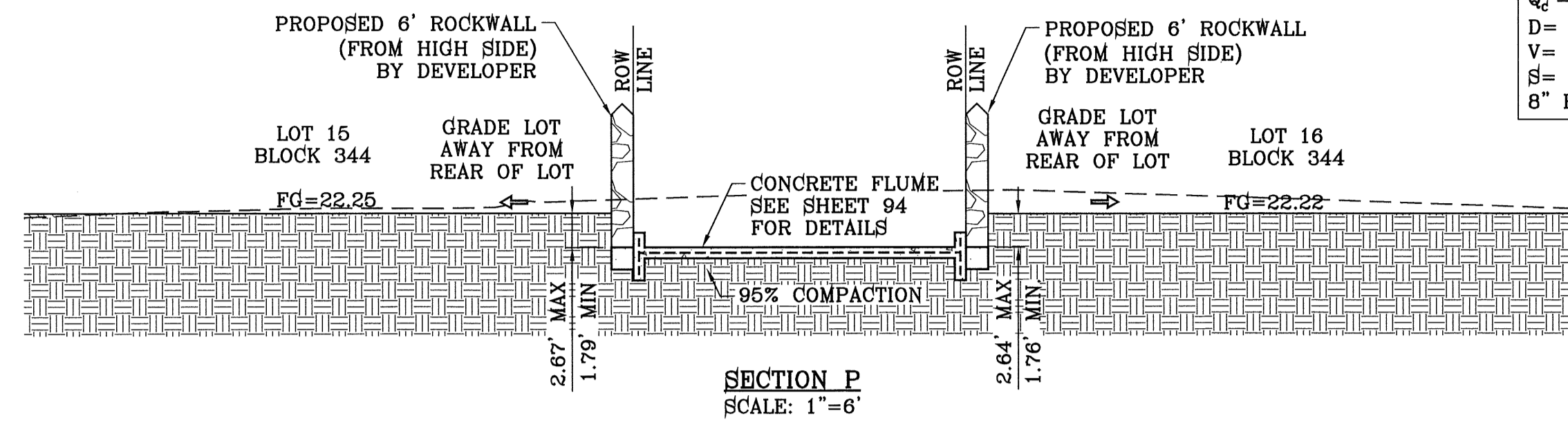
SHEET TITLE

**EDGEMERE LANDSCAPE & IRRIGATION PLAN**

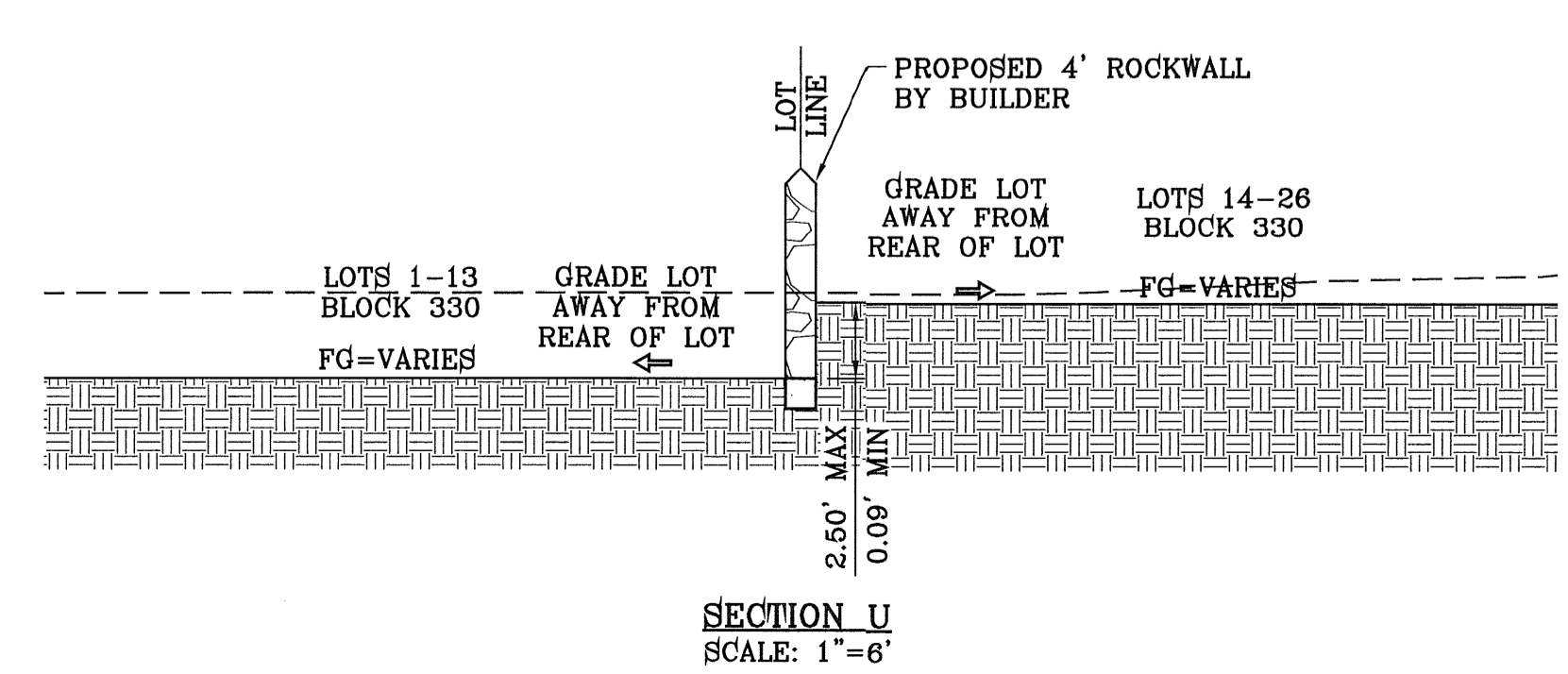
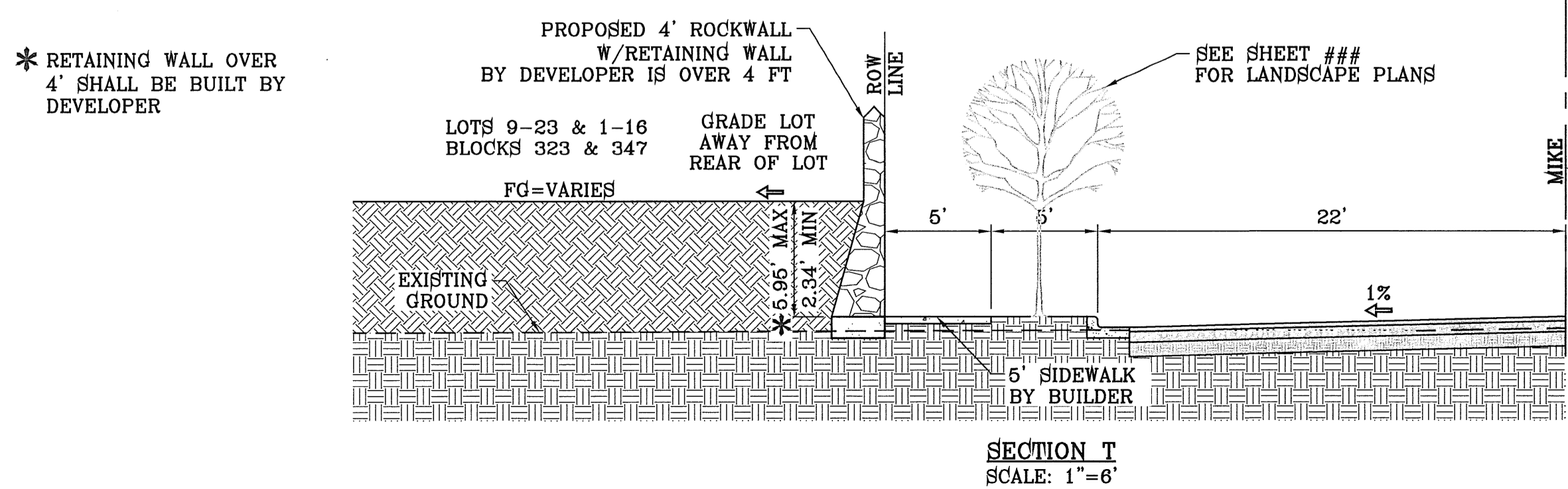
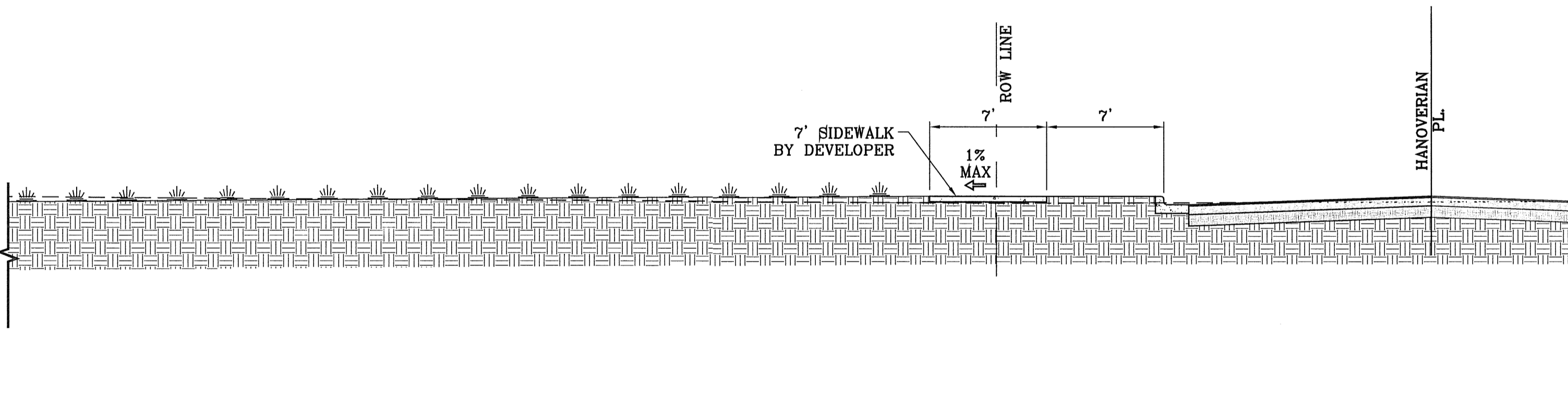
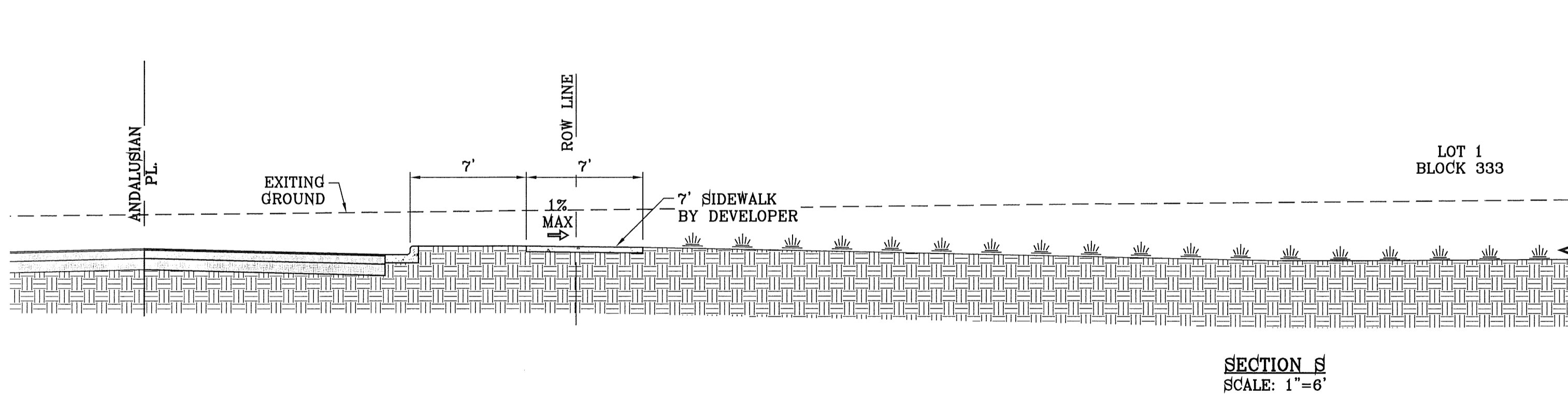
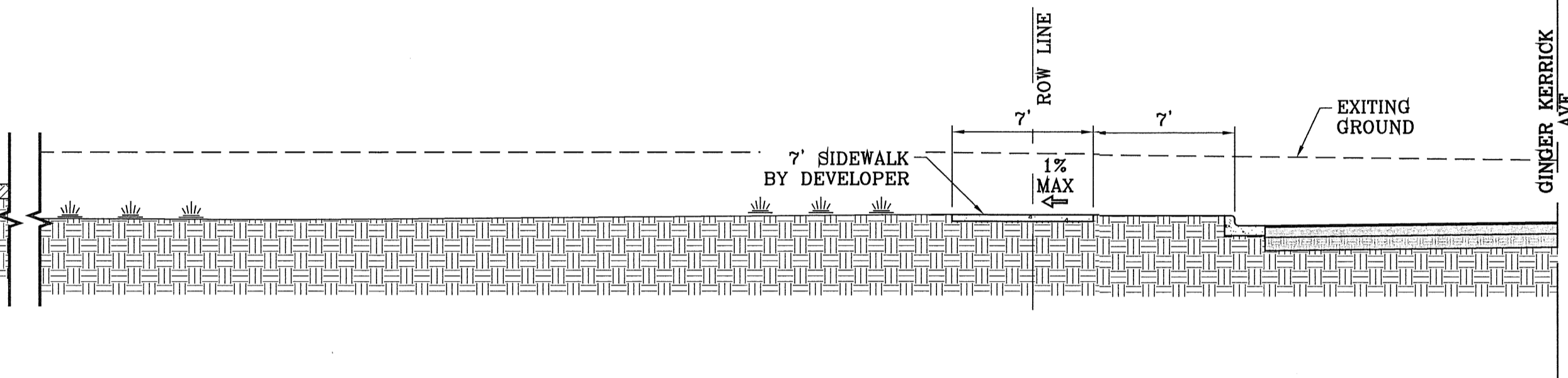
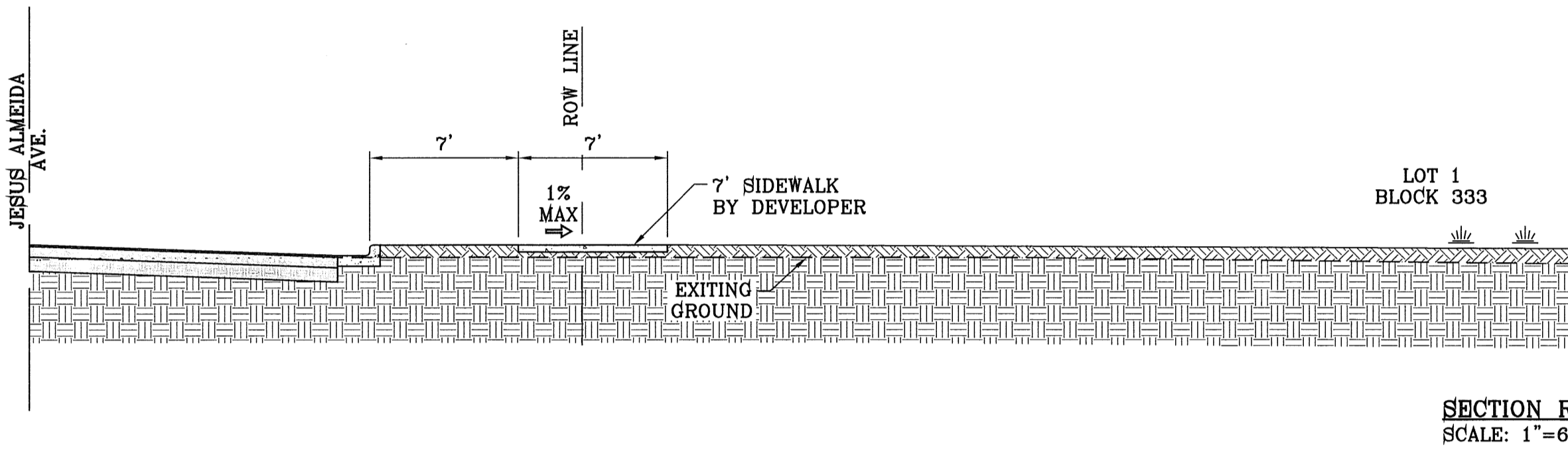
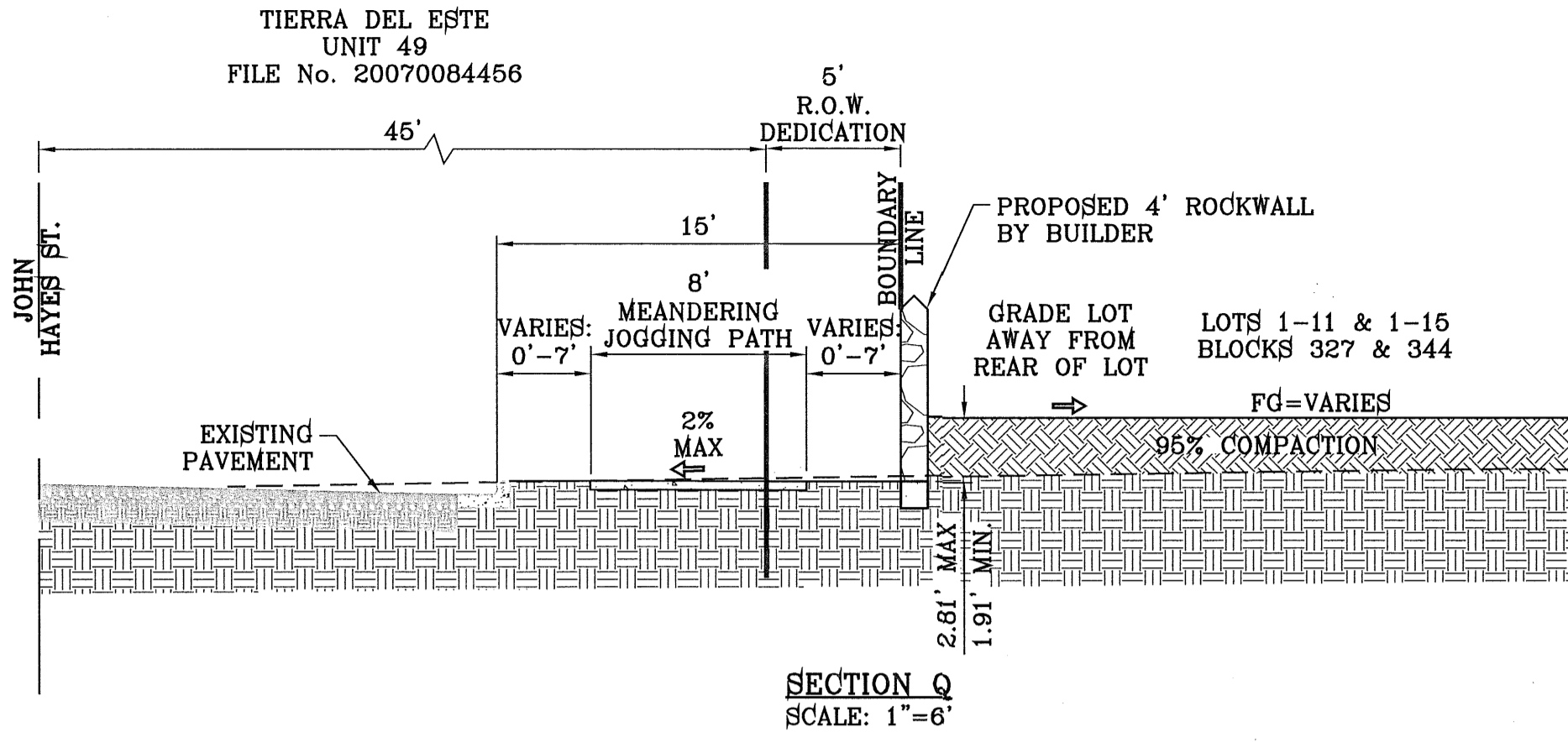
SHT L8 OF 18

IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TX 78711-308, (512) 239-6719

TERRA DEL ESTE UNIT SIXTY SEVEN



**FLUME**  
 14' WIDE FLUME  
 $Q_c = 38.38$  CFS  
 $Q_c = 70.36$  CFS  
 $D = 0.40$  FT  
 $V = 5.71$  FPS  
 $S = 0.83\%$   
 8" FLUME WALLS



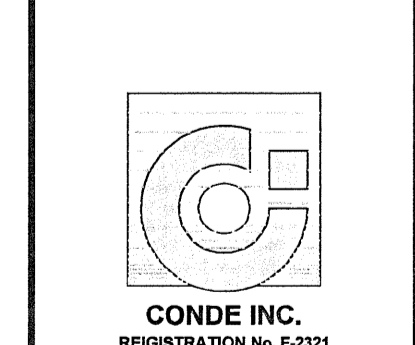
BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47	NAVD88 DATUM
DATE	REVISIONS
10/9/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
BY	O.M.
	O.M.

**PROJECT NAME**  
 TIERRA DEL ESTE UNIT SIXTY SEVEN  
 BEING PORTION OF SECTION 27, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 166.254± ACRES

**SCALE**  
 HORIZ: AS NOTED  
 VERT: ---  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: BRJ/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

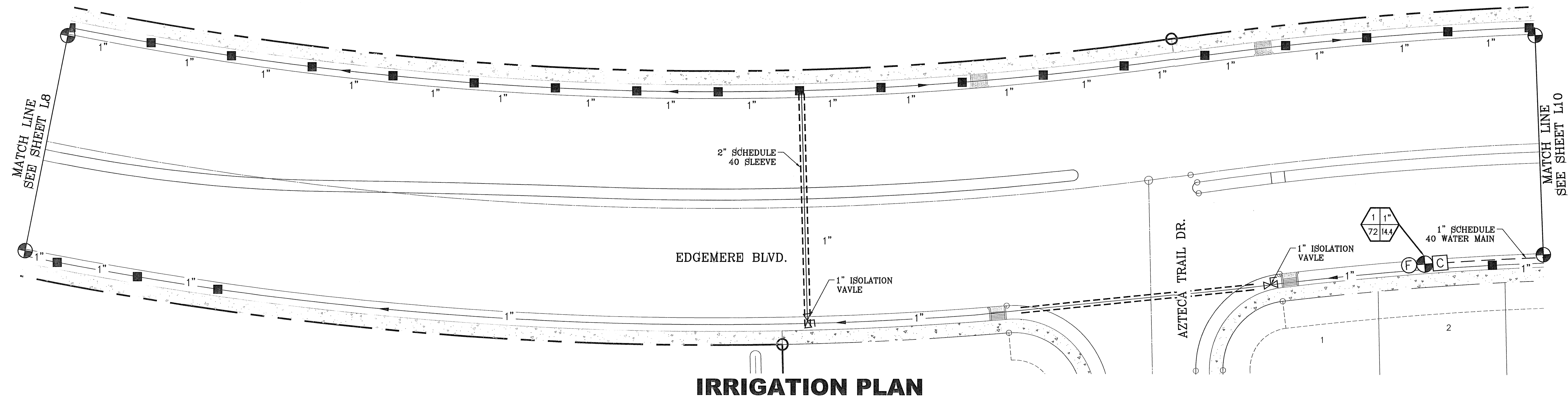
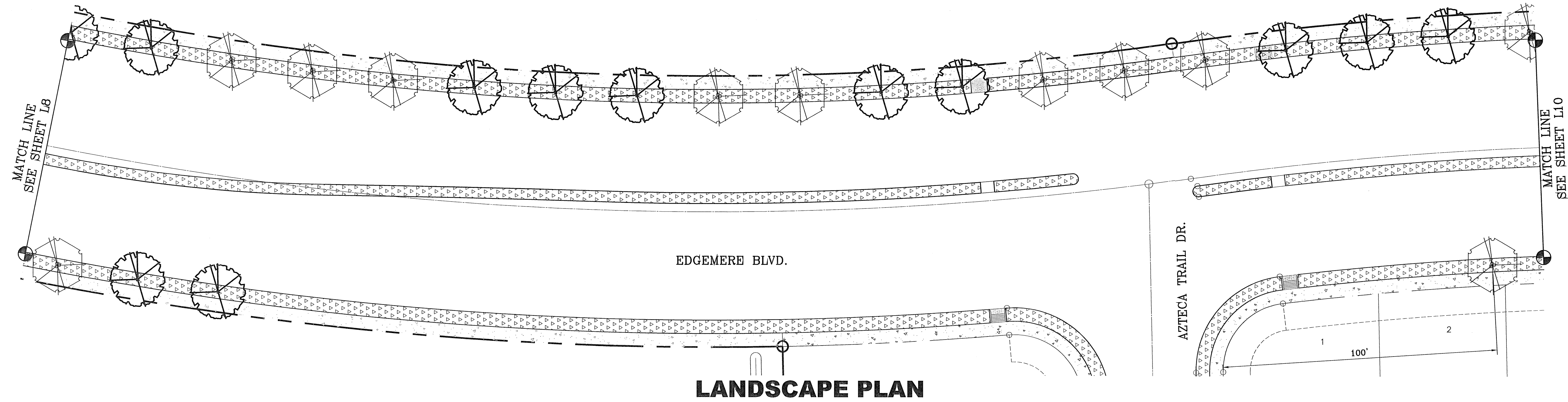


**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286



**GRADING SECTIONS**

FILE LOCATION S:\LANDSCAPE\TDE\_67\TDE\_67-LANDSCAPE & IRRIGATION PLOTTED ON Thursday, August 23, 2012 9:28:04 AM BY OSCAR MEDINA

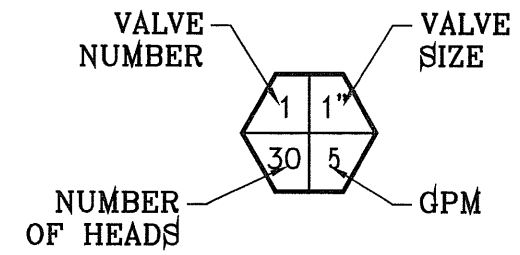


**LEGEND**

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY
ARIZONA ASH CLASSIC SHADE SHAPE	FRAXINUS VELUTINA	2" CAL.	126
RAYWOOD ASH Q TIPPED SHAPE	FRAXINUS ANGUSTIFOLIA	2" CAL.	120
1"-3" RIVER ROCK, 3" DEPTH			
1-1/4" PADRE CANYON RED, WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS			

**LEGEND**

	BOUNDARY LINE
	TYPE K 1" COPPER WATER TUBE
	1" PVC SCHEDULE 40 WATER MAIN
	PVC SCHEDULE 40 WATER LATERAL (SIZE AS NOTED)
	PVC SCHEDULE 40 SLEEVE (TWICE THE SIZE OF PIPE)
	ONE-1" WATER METER BY DEVELOPER (SEE SHEET L18)
	1" DOUBLE CHECK ASSEMBLY FEBCO MODEL 860
	TBOS BATTERY OPERATED CONTROL MODULE
	1" REMOTE CONTROL VALVE
	XERIBIRD 8 EMITTER
	PIPE SIZE (SCHEDULE 40)
	STUB OUT WITH FOR FUTURE DRIP
	ISOLATION BRASS BALL VALVE
	WILKINS BF4 BRONZE BODY OR IN-LINE PRESSURE REGULATOR



IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TX 78711-308, (512) 239-6719

TIERRA DEL ESTE UNIT SIXTY SEVEN

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SUPREMY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0285  
FAX: (915) 592-0286

**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

**IRRIGATION'S SEAL**

**IRRIGATOR'S SEAL**

**SCALE**  
HORIZ: 1"=20'  
VERT: ---

**DATE:** AUGUST 2011  
**DESIGN BY:** OM  
**INITIATED BY:** OM  
**CHECKED BY:** YC  
**JOB NO.:** 1110-18

**PROJECT NAME**  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.  
ELEVATION 4017.47

**BENCHMARK**  
.....NAVD88 DATUM

**REVISIONS**

DATE	BY

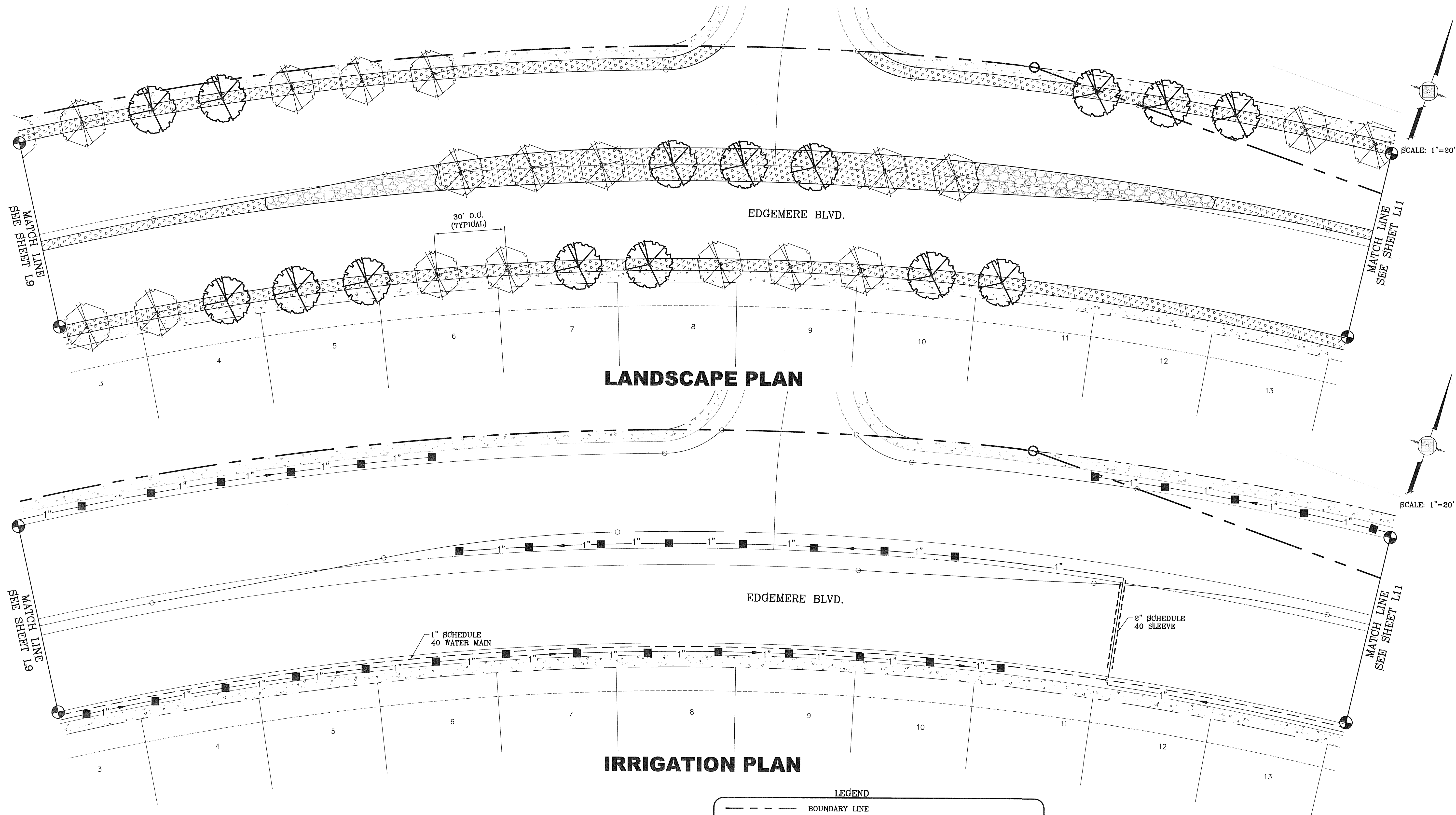
**SCALE: 1"=20'**

**SCALE: 1"=20'**

**SHEET TITLE**  
**EDGEMERE LANDSCAPE & IRRIGATION PLAN**

**SHT L9 OF 18**

FILE LOCATION S:\LANDSCAPE\TDE\_67\TDE\_67-LANDSCAPE & IRRIGATION PLOTTED ON Thursday, August 23, 2012 9:23:09 AM BY OSCAR MEDINA



**LANDSCAPE PLAN**

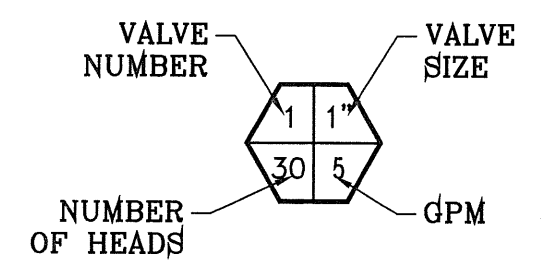
**IRRIGATION PLAN**

**LEGEND**

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY
ARIZONA ASH CLASSIC SHADE SHAPE	FRAXINUS VELUTINA	2" CAL.	126
RAYWOOD ASH Q TIPPED SHAPE	FRAXINUS ANGUSTIFOLIA	2" CAL.	120
1"-3" RIVER ROCK, 3" DEPTH			
1-1/4" PADRE CANYON RED, WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS			

**LEGEND**

---	BOUNDARY LINE
----	TYPE K 1" COPPER WATER TUBE
----	1" PVC SCHEDULE 40 WATER MAIN
----	PVC SCHEDULE 40 WATER LATERAL (SIZE AS NOTED)
----	PVC SCHEDULE 40 SLEEVE (TWICE THE SIZE OF PIPE)
----	ONE-1" WATER METER BY DEVELOPER (SEE SHEET L18)
----	1" DOUBLE CHECK ASSEMBLY FEBCO MODEL 850
----	TBOS BATTERY OPERATED CONTROL MODULE
----	1" REMOTE CONTROL VALVE
○	XERIBIRD 8 EMMITER
----	PIPE SIZE (SCHEDULE 40)
----	STUB OUT WITH FOR FUTURE DRIP
----	ISOLATION BRASS BALL VALVE
----	WILKINS BF4 BRONZE BODY OR
----	IN-LINE PRESSURE REGULATOR



IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TX 78711-308, (612) 239-6719

TIERRA DEL ESTE UNIT SIXTY SEVEN

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE

REVISIONS

BY

PROJECT NAME

**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

SCALE

HORIZ: 1"=20'

VERT: 1"=20'

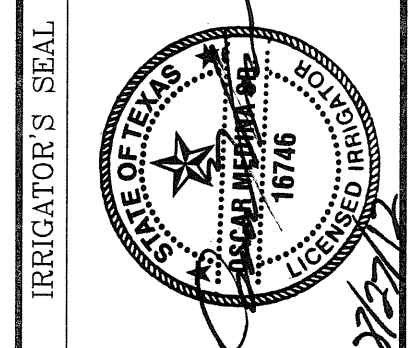
DATE: AUGUST 2011

DESIGN BY: OM

INITIATED BY: OM

CHECKED BY: YC

JOB NO.: 1110-18



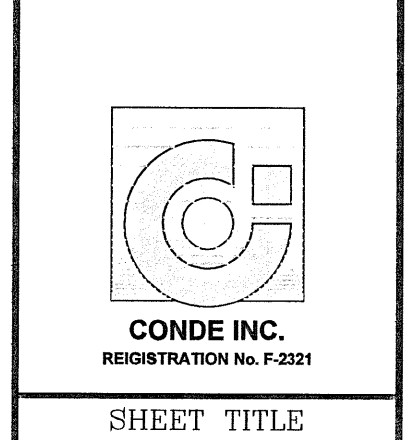
**CONDE INC.**

ENGINEERING / PLANNING SURVEYING / GPS

6080 SURETY DR. STE 100 EL PASO, TEXAS 79905

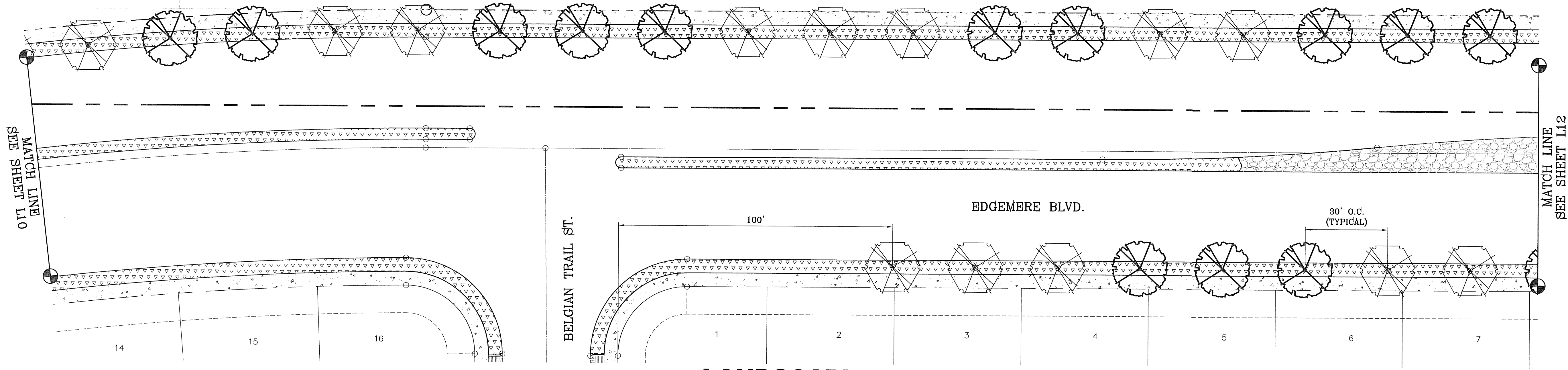
PHONE: (915) 592-0283

FAX: (915) 592-0286

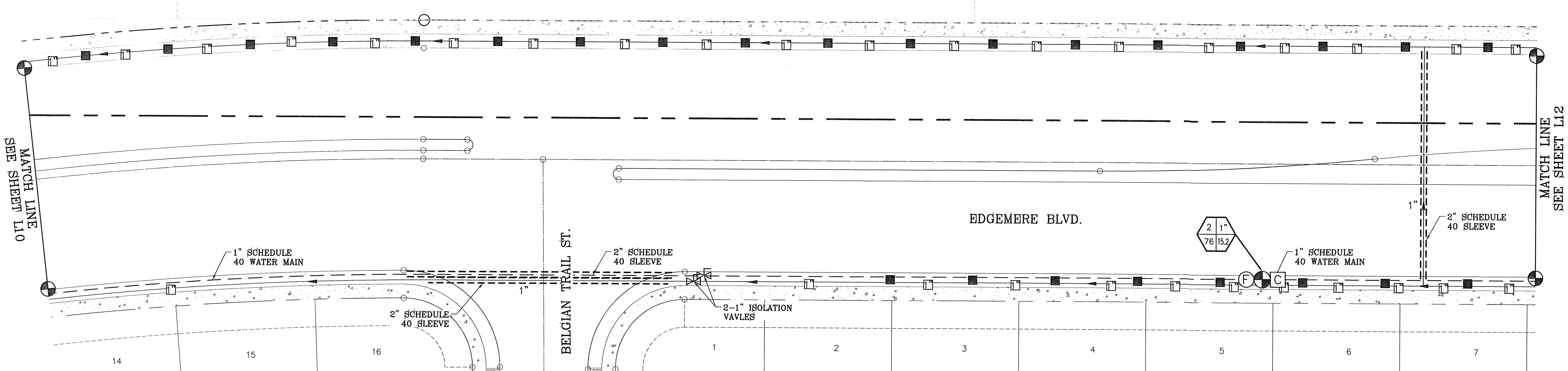


**EDGEMERE LANDSCAPE & IRRIGATION PLAN**

FILE LOCATION S:\LANDSCAPE\_VDE 67.VDE\_67-LANDSCAPE & IRRIGATION PLOTTED ON Thursday, August 23, 2012 9:23:14 AM BY OSCAR MEDINA



**LANDSCAPE PLAN**



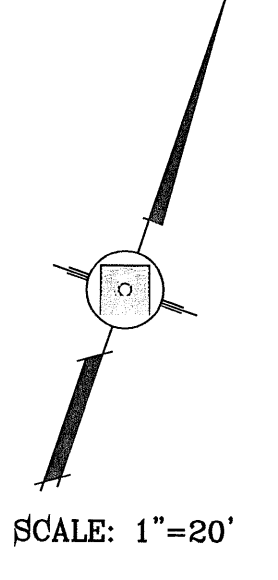
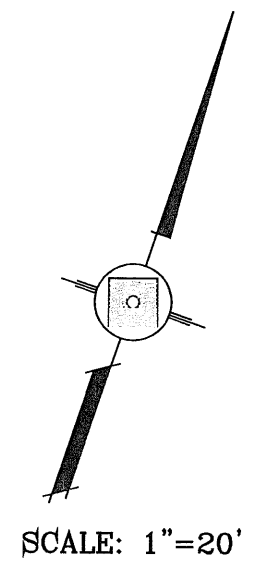
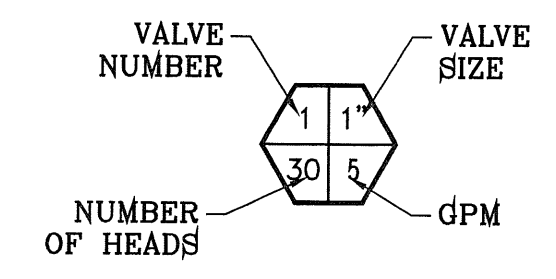
**IRRIGATION PLAN**

**LEGEND**

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY
ARIZONA ASH CLASSIC SHADE SHAPE	FRAXINUS VELUTINA	2" CAL.	126
RAYWOOD ASH Q TIPPED SHAPE	FRAXINUS ANGUSTIFOLIA	2" CAL.	120
1"-3" RIVER ROCK, 3" DEPTH			
1-1/4" PADRE CANYON RED, WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS			

**LEGEND**

---	BOUNDARY LINE
----	TYPE K 1" COPPER WATER TUBE
----	1" PVC SCHEDULE 40 WATER MAIN
----	PVC SCHEDULE 40 WATER LATERAL (SIZE AS NOTED)
----	PVC SCHEDULE 40 SLEEVE (TWICE THE SIZE OF PIPE)
----	ONE-1" WATER METER BY DEVELOPER (SEE SHEET L18)
----	1" DOUBLE CHECK ASSEMBLY FEBCO MODEL 850
----	TBO5 BATTERY OPERATED CONTROL MODULE
----	1" REMOTE CONTROL VALVE
----	XERIBIRD 8 EMITTER
----	PIPE SIZE (SCHEDULE 40)
----	STUB OUT WITH FOR FUTURE DRIP
----	ISOLATION BRASS BALL VALVE
----	WILKINS BF4 BRONZE BODY OR IN-LINE PRESSURE REGULATOR



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE

REVISIONS

BY

PROJECT NAME

**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 106.204± ACRES

SCALES

HORIZ: 1"=20'

VERT: ---

DATE: AUGUST 2011

DESIGN BY: OM

INITIATED BY: OM

CHECKED BY: YC

JOB NO.: 1110-18

IRRIGATOR'S SEAL

OSCAR MEDINA

REGISTERED PROFESSIONAL ENGINEER

STATE OF TEXAS

**CONDE INC.**

ENGINEERING / PLANNING SURVEYING / GPS

6080 SURETY DR. STE 100 EL PASO, TEXAS 79905

PHONE: (915) 592-0283

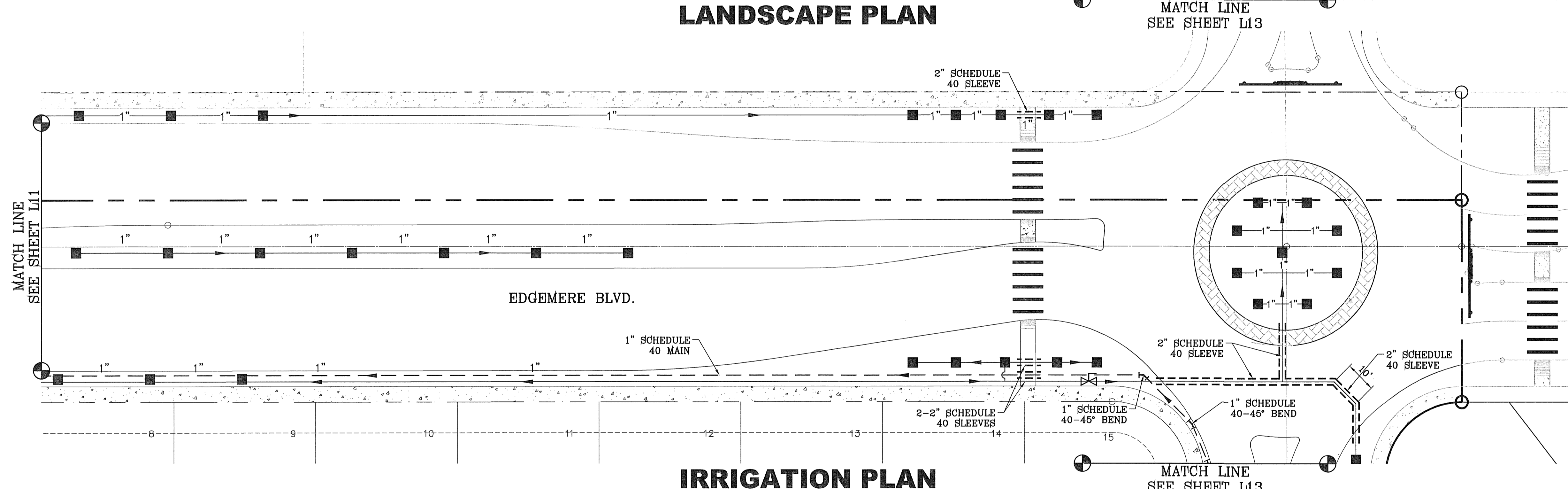
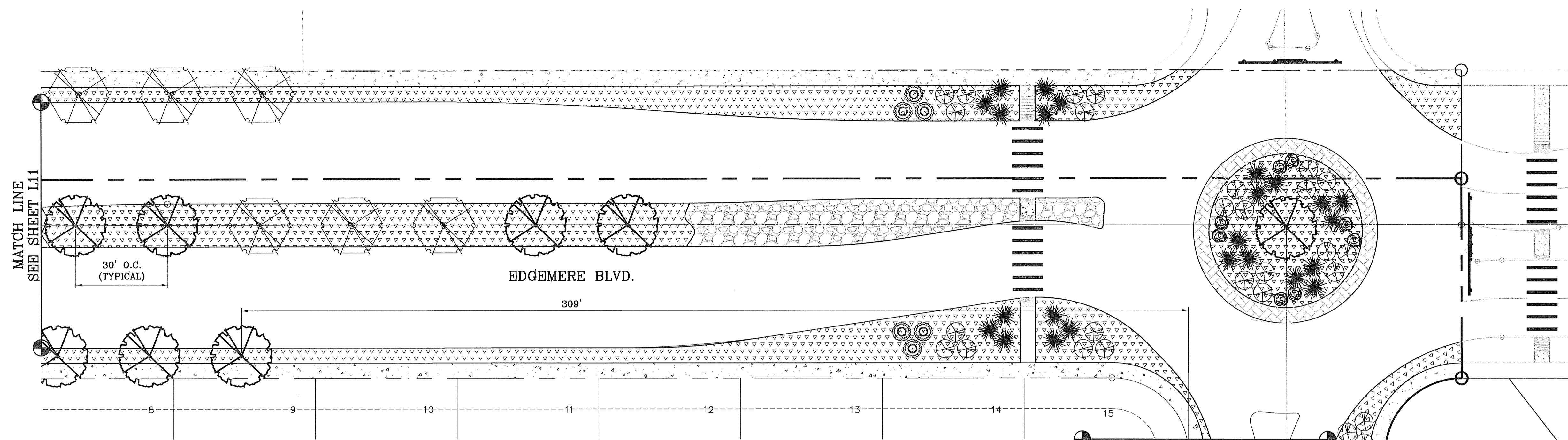
FAX: (915) 592-0286

SHEET TITLE

**EDGEMERE LANDSCAPE & IRRIGATION PLAN**

IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TX 78711-308, (512) 239-6719

FILE LOCATION E:\LANDSCAPE\TDE\_67\TDE\_67\_LANDSCAPE & IRRIGATION PLOTTED ON Thursday, August 23, 2012 9:23:19 AM BY OSCAR MEDINA

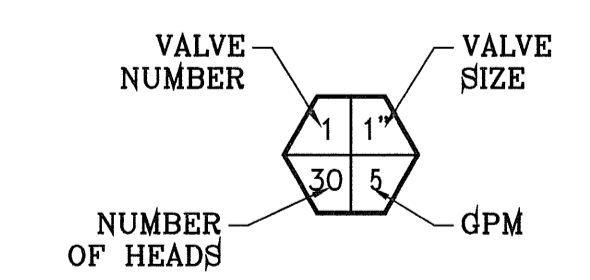


**LEGEND**

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY
ARIZONA ASH CLASSIC SHADE SHAPE	FRAXINUS VELUTINA	2" CAL.	126
RAYWOOD ASH Q TIPPED SHAPE	FRAXINUS ANGUSTIFOLIA	2" CAL.	120
RED YUCCA	HESPERALOE PARVIFLORA	5 GAL.	54
TEXAS SAGE	LEUCOPHYLLUM 'FRUTESCENS'	3 GAL.	54
DESERT ROSEMARY	POLIOMINTHA INCANA	3 GAL.	15
1"-3" RIVER ROCK, 3" DEPTH			
1-1/4" PADRE CANYON RED, WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3" ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS			

**LEGEND**

---	BOUNDARY LINE
----	TYPE K 1" COPPER WATER TUBE
----	1" PVC SCHEDULE 40 WATER MAIN
----	PVC SCHEDULE 40 WATER LATERAL (SIZE AS NOTED)
----	PVC SCHEDULE 40 SLEEVE (TWICE THE SIZE OF PIPE)
----	ONE-1" WATER METER BY DEVELOPER (SEE SHEET L18)
⊕	1" DOUBLE CHECK ASSEMBLY FEBCO MODEL 850
⊕	TBO5 BATTERY OPERATED CONTROL MODULE
⊕	1" REMOTE CONTROL VALVE
⊕	XERIBIRD 8 EMMITER
⊕	PIPE SIZE (SCHEDULE 40)
⊕	STUB OUT WITH FOR FUTURE DRIP
⊕	ISOLATION BRASS BALL VALVE
⊕	WILKINS BP4 BRONZE BODY OR IN-LINE PRESSURE REGULATOR



IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TX 78711-308, (512) 239-6719

TIERRA DEL ESTE UNIT SIXTY SEVEN

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE

REVISIONS

BY

PROJECT NAME

**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY Co. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

S.C.A.L.E.

HORIZ: 1"=20'

VERT: ---

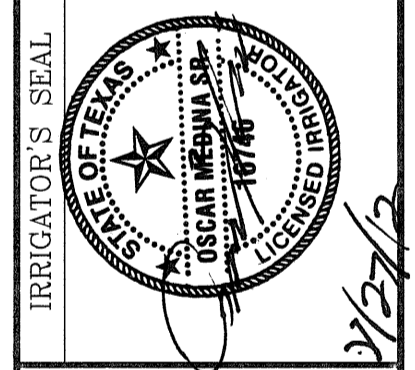
DATE: AUGUST 2011

DESIGN BY: OM

INITIATED BY: OM

CHECKED BY: YC

JOB NO.: 1110-18



**CONDE INC.**

ENGINEERING / PLANNING

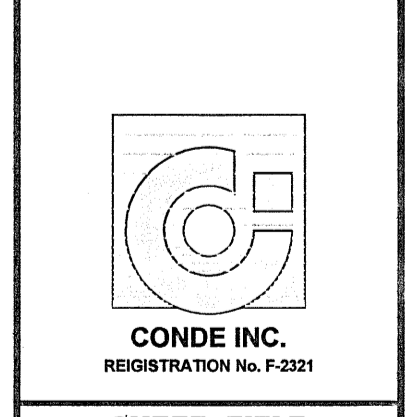
SURVEYING / GPS

6060 SURVEY DR. STE. 100

EL PASO, TEXAS 79905

PHONE: (915) 592-0283

FAX: (915) 592-0286

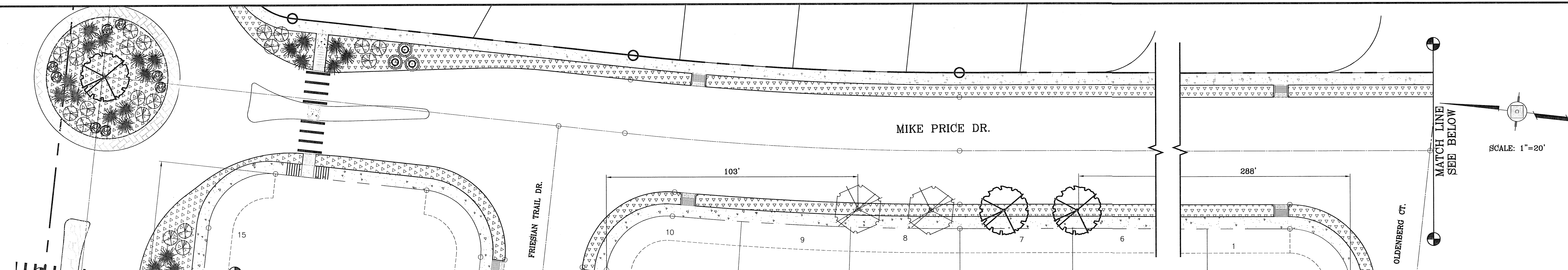


SHEET TITLE

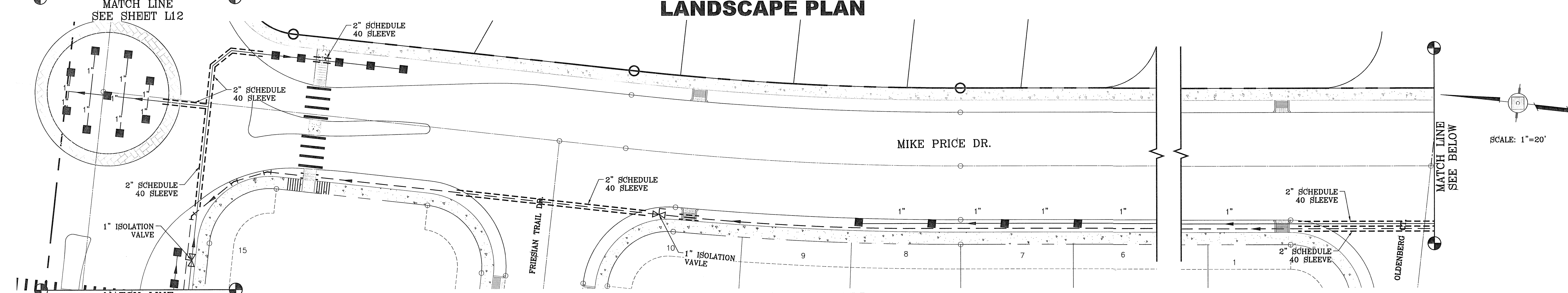
**EDGEMERE LANDSCAPE & IRRIGATION PLAN**

SHT L12 OF 18

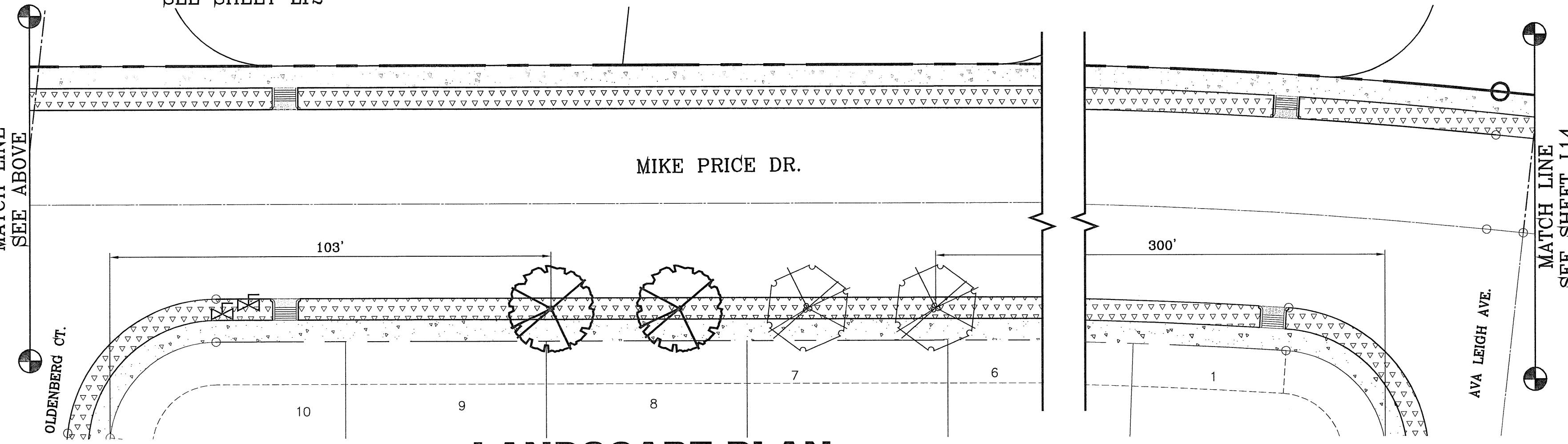
FILE LOCATION S:\LANDSCAPE\7DE\_67\_LANDSCAPE & IRRIGATION PLOTTED ON Thursday, August 23, 2012 9:25:31 AM BY OSCAR MEDINA



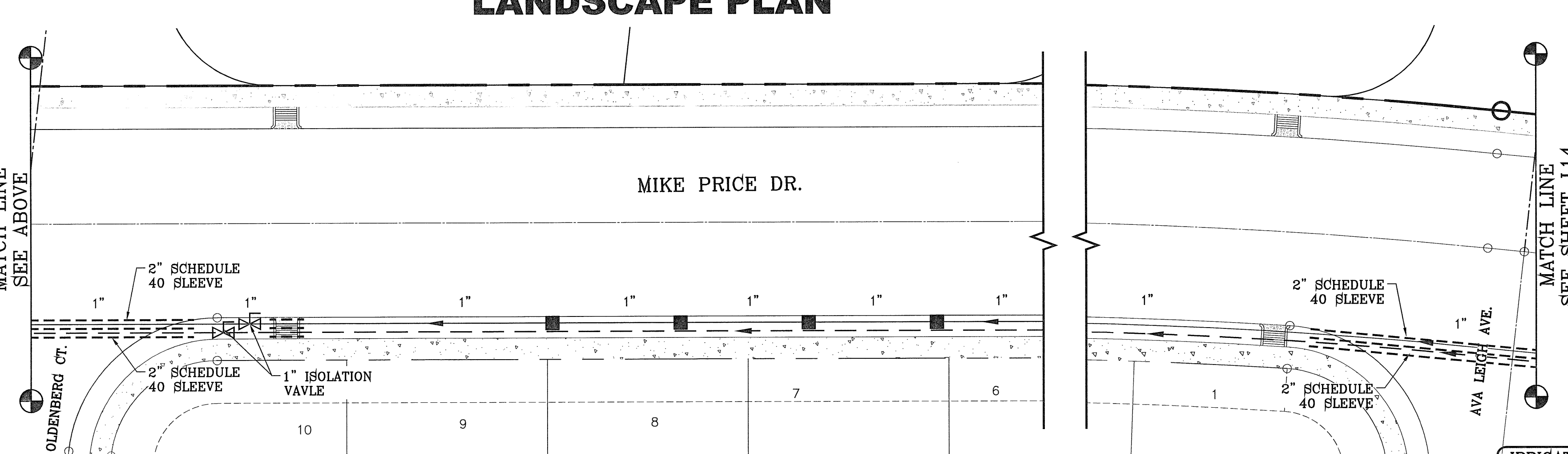
**LANDSCAPE PLAN**



**IRRIGATION PLAN**



**LANDSCAPE PLAN**



**IRRIGATION PLAN**

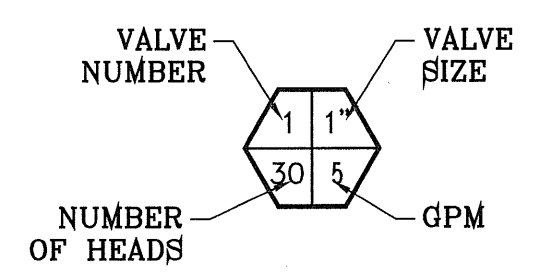
**LEGEND**

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY
ARIZONA ASH CLASSIC SHADE SHAPE	FRAXINUS VELUTINA	2" CAL.	126
RAYWOOD ASH Q TIPPED SHAPE	FRAXINUS ANGUSTIFOLIA	2" CAL.	120
RED YUCCA	HESPERALOE PARVIFLORA	6 GAL.	64
TEXAS SAGE	LEUCOPHYLLUM 'FRUTESCENS'	3 GAL.	64
DESERT ROSEMARY	POLIOMINTHA INCANA	3 GAL.	16

1-1/4" PADRE CANYON RED, WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS

**LEGEND**

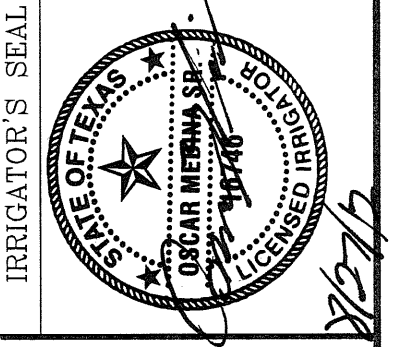
- BOUNDARY LINE
- TYPE K 1" COPPER WATER TUBE
- 1" PVC SCHEDULE 40 WATER MAIN
- PVC SCHEDULE 40 WATER LATERAL (SIZE AS NOTED)
- PVC SCHEDULE 40 SLEEVE (TWICE THE SIZE OF PIPE)
- ONE-1" WATER METER BY DEVELOPER (SEE SHEET L18)
- 1" DOUBLE CHECK ASSEMBLY FEBCO MODEL 850
- TBO5 BATTERY OPERATED CONTROL MODULE
- 1" REMOTE CONTROL VALVE
- XERIBIRD 8 EMMITER
- PIPE SIZE (SCHEDULE 40)
- STUB OUT WITH FOR FUTURE DRIP
- ISOLATION BRASS BALL VALVE
- WILKINS BF4 BRONZE BODY OR IN-LINE PRESSURE REGULATOR



BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.  
ELEVATION 4017.47  
DATE  
REVISIONS  
BY

PROJECT NAME  
**TERRIA DEL ESTE UNIT SIXTY SEVEN**  
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEY, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 166.254± ACRES

SCALE  
HORIZ: 1"=20'  
VERT: ---  
DATE: AUGUST 2011  
DESIGN BY: OM  
INITIATED BY: OM  
CHECKED BY: YC  
JOB NO.: 1110-18



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



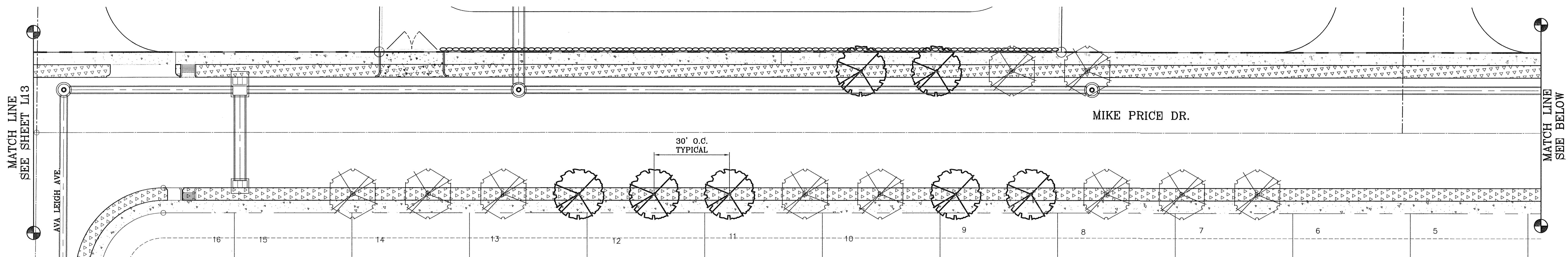
SHEET TITLE  
**MIKE PRICE LANDSCAPE & IRRIGATION PLAN**

IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TX 78711-308, (512) 239-6719

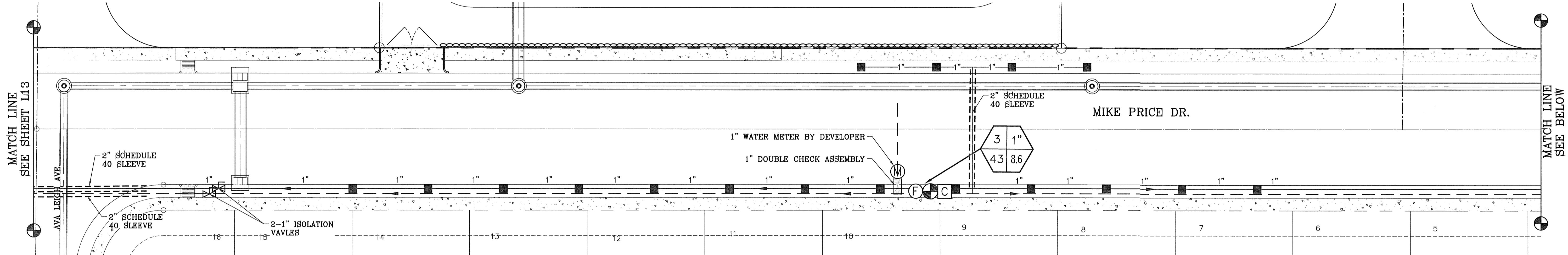
TERRIA DEL ESTE UNIT SIXTY SEVEN



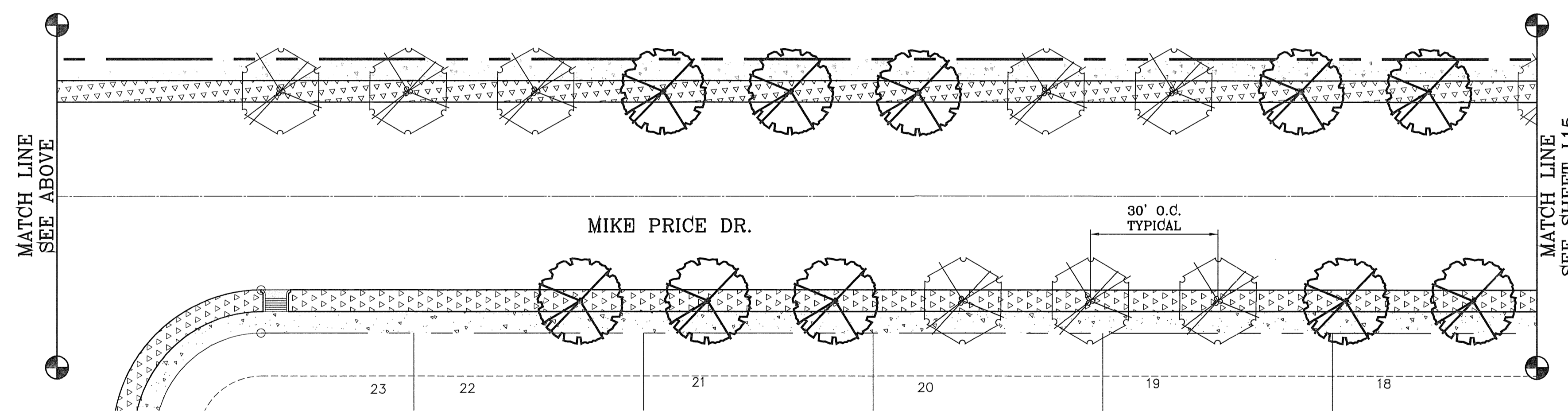
FILE LOCATION S:\LANDSCAPE\TDE\_67\TDE\_67-LANDSCAPE & IRRIGATION PLOTTED ON Thursday, August 23, 2012 9:23:41 AM BY OSCAR MEDINA



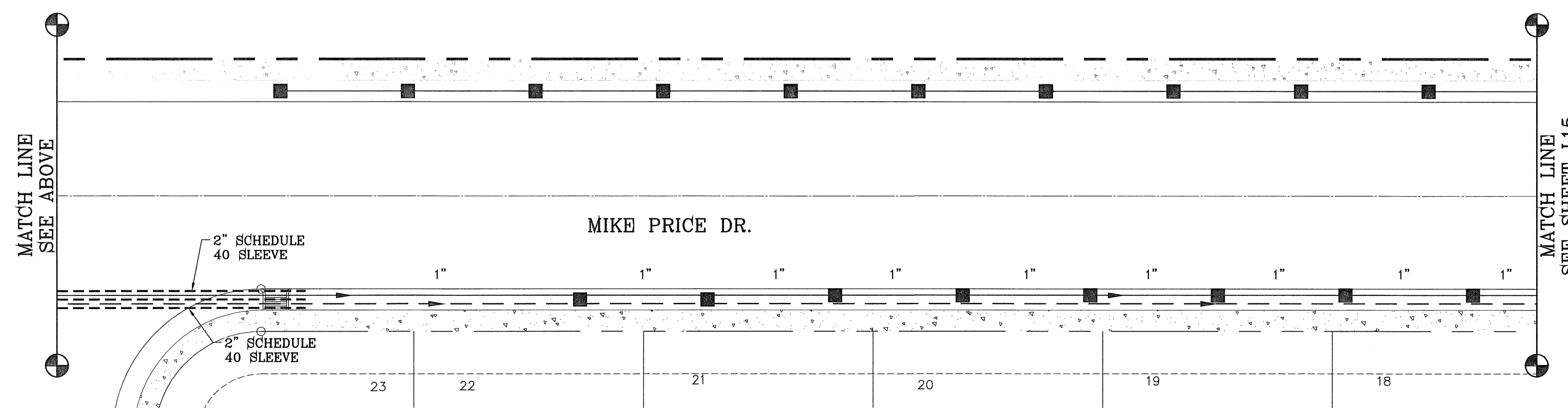
**LANDSCAPE PLAN**



**IRRIGATION PLAN**



**LANDSCAPE PLAN**



**IRRIGATION PLAN**

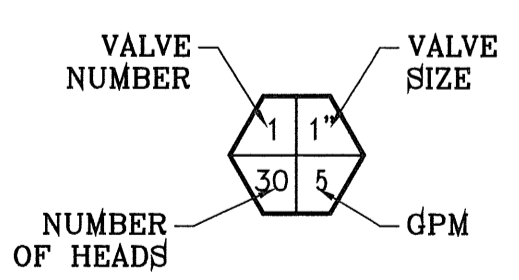
**LEGEND**

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY
ARIZONA ASH CLASSIC SHADE SHAPE	FRAXINUS VELUTINA	2" CAL.	126
RAYWOOD ASH Q TIPPED SHAPE	FRAXINUS ANGUSTIFOLIA	2" CAL.	120

1-1/4" PADRE CANYON RED, WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS

**LEGEND**

	BOUNDARY LINE
	TYPE K 1" COPPER WATER TUBE
	1" PVC SCHEDULE 40 WATER MAIN
	PVC SCHEDULE 40 WATER LATERAL (SIZE AS NOTED)
	PVC SCHEDULE 40 SLEEVE (TWICE THE SIZE OF PIPE)
	ONE-1" WATER METER BY DEVELOPER (SEE SHEET L18)
	1" DOUBLE CHECK ASSEMBLY FEBCO MODEL 850
	TBO5 BATTERY OPERATED CONTROL MODULE
	1" REMOTE CONTROL VALVE
	XERIBIRD 8 EMMITER
	PIPE SIZE (SCHEDULE 40)
	STUB OUT WITH FOR FUTURE DRIP
	ISOLATION BRASS BALL VALVE
	WILKINS BF4 BRONZE BODY OR IN-LINE PRESSURE REGULATOR



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE

REVISIONS

BY

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY Co. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

S C A L E

HORIZ: 1"=20'

VERT: ---

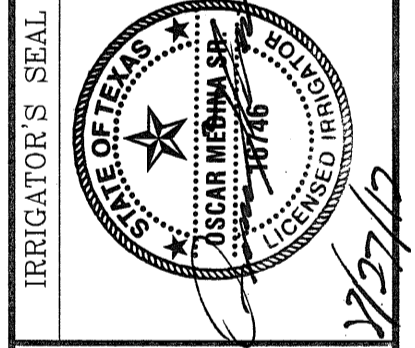
DATE: AUGUST 2011

DESIGN BY: OM

INITIATED BY: OM

CHECKED BY: YC

JOB NO.: 1110-18

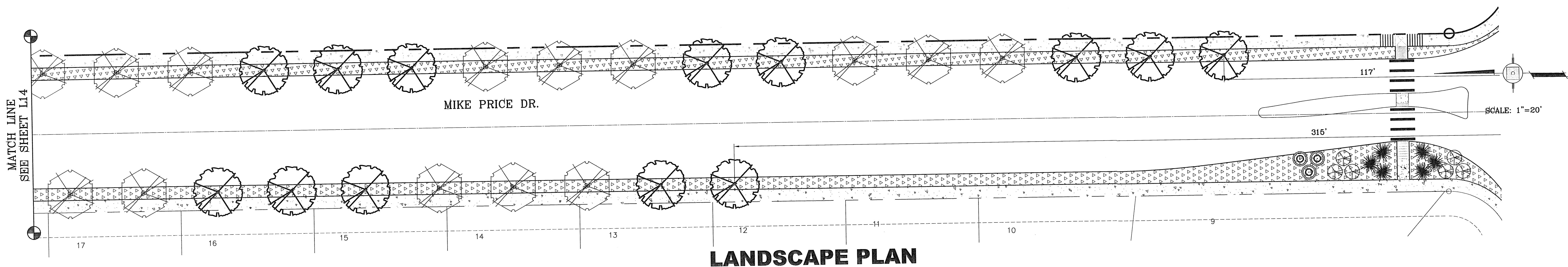


**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

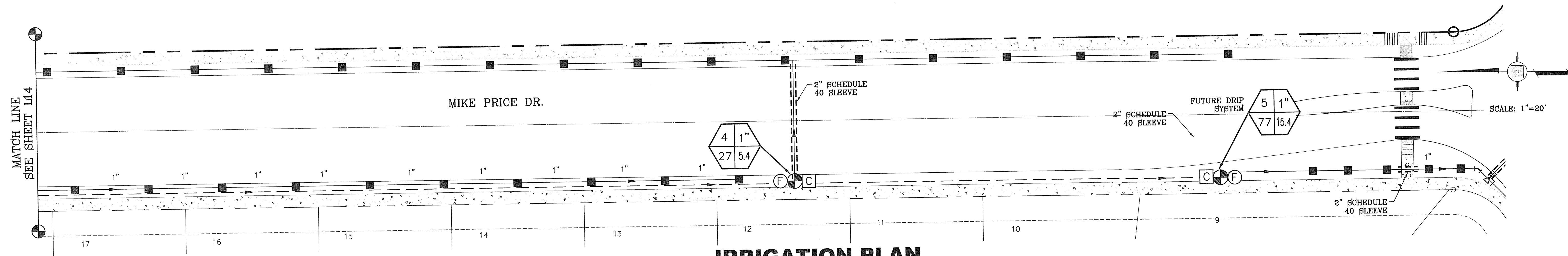


SHEET TITLE  
**MIKE PRICE LANDSCAPE & IRRIGATION PLAN**

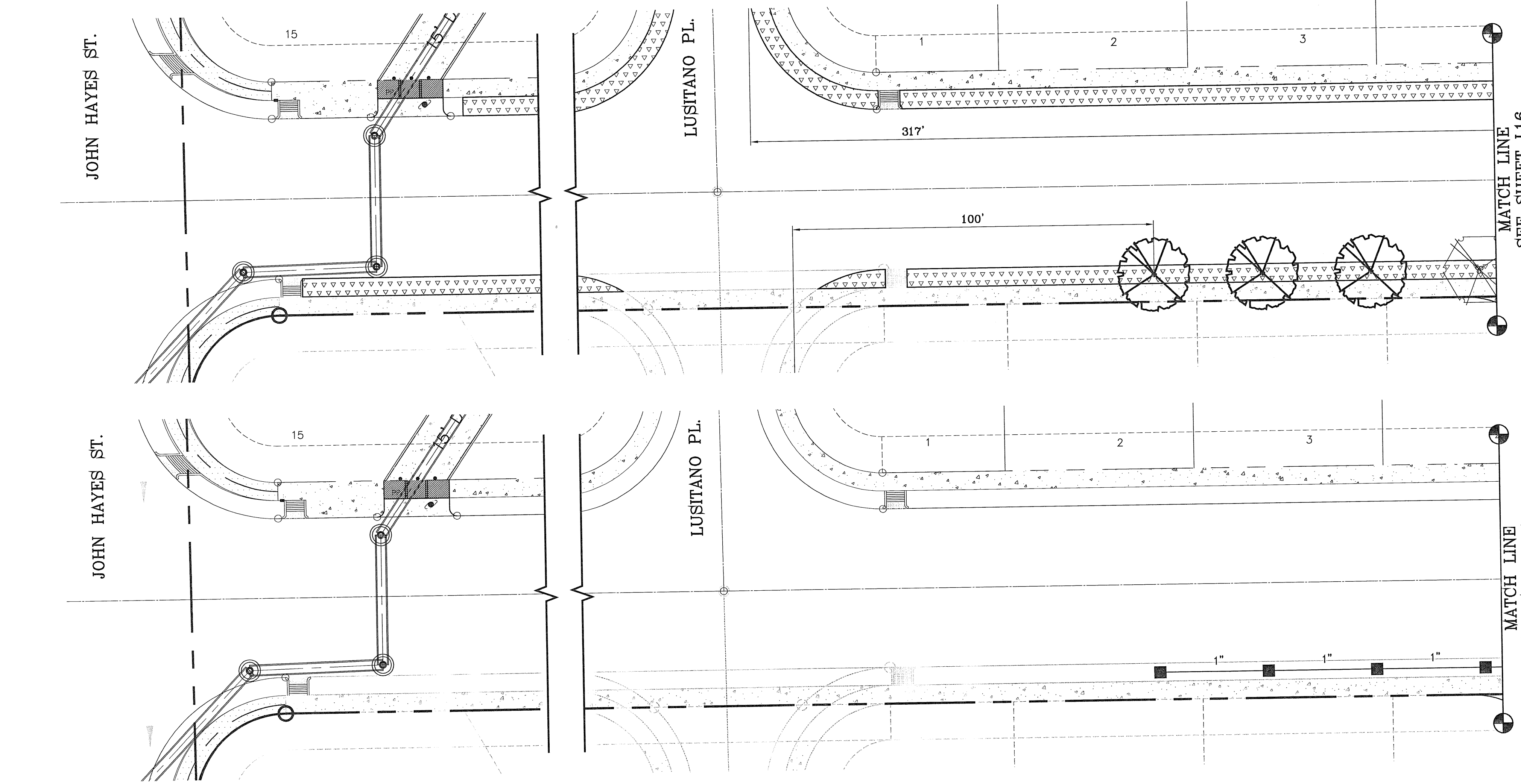
FILE LOCATION S:\LANDSCAPE\TDE 67\TDE\_67-LANDSCAPE & IRRIGATION PLOTTED ON Thursday, August 23, 2012 9:23:53 AM BY OSCAR MEDINA



**LANDSCAPE PLAN**



**IRRIGATION PLAN**



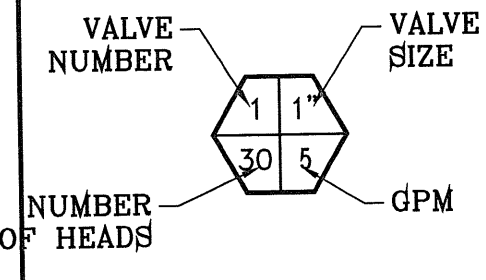
**LEGEND**

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY
ARIZONA ASH CLASSIC SHABD SHAPE	FRAXINUS VELUTINA	2" CAL.	126
RAYWOOD ASH Q TIPPED SHAPE	FRAXINUS ANGUSTIFOLIA	2" CAL.	120
RED YUCCA	HESPERALOE PARVIFLORA	5 GAL.	64
TEXAS SAGE	LEUCOPHYLLUM 'FRUTESCENS'	3 GAL.	54
DESERT ROSEMARY	POLIOMINTHA INCANA	3 GAL.	15

1-1/4" PADRE CANYON RED, WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS

**LEGEND**

- BOUNDARY LINE
- TYPE K 1" COPPER WATER TUBE
- 1" PVC SCHEDULE 40 WATER MAIN
- PVC SCHEDULE 40 WATER LATERAL (SIZE AS NOTED)
- PVC SCHEDULE 40 SLEEVE (TWICE THE SIZE OF PIPE)
- ONE-1" WATER METER BY DEVELOPER (SEE SHEET L18)
- 1" DOUBLE CHECK ASSEMBLY FEBCO MODEL 850
- TBOS BATTERY OPERATED CONTROL MODULE
- 1" REMOTE CONTROL VALVE
- XERIBIRD 8 EMMITER
- PIPE SIZE (SCHEDULE 40)
- STUB OUT WITH FOR FUTURE DRIP
- ISOLATION BRASS BALL VALVE
- WILKINS BF4 BRONZE BODY OR
- IN-LINE PRESSURE REGULATOR



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE: \_\_\_\_\_

REVISIONS: \_\_\_\_\_

BY: \_\_\_\_\_

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

BRING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 106.254± ACRES

SCALE  
HORIZ: 1"=20'  
VERT: 1"=4'

DATE: AUGUST 2011

DESIGN BY: OM

INITIATED BY: OM

CHECKED BY: YC

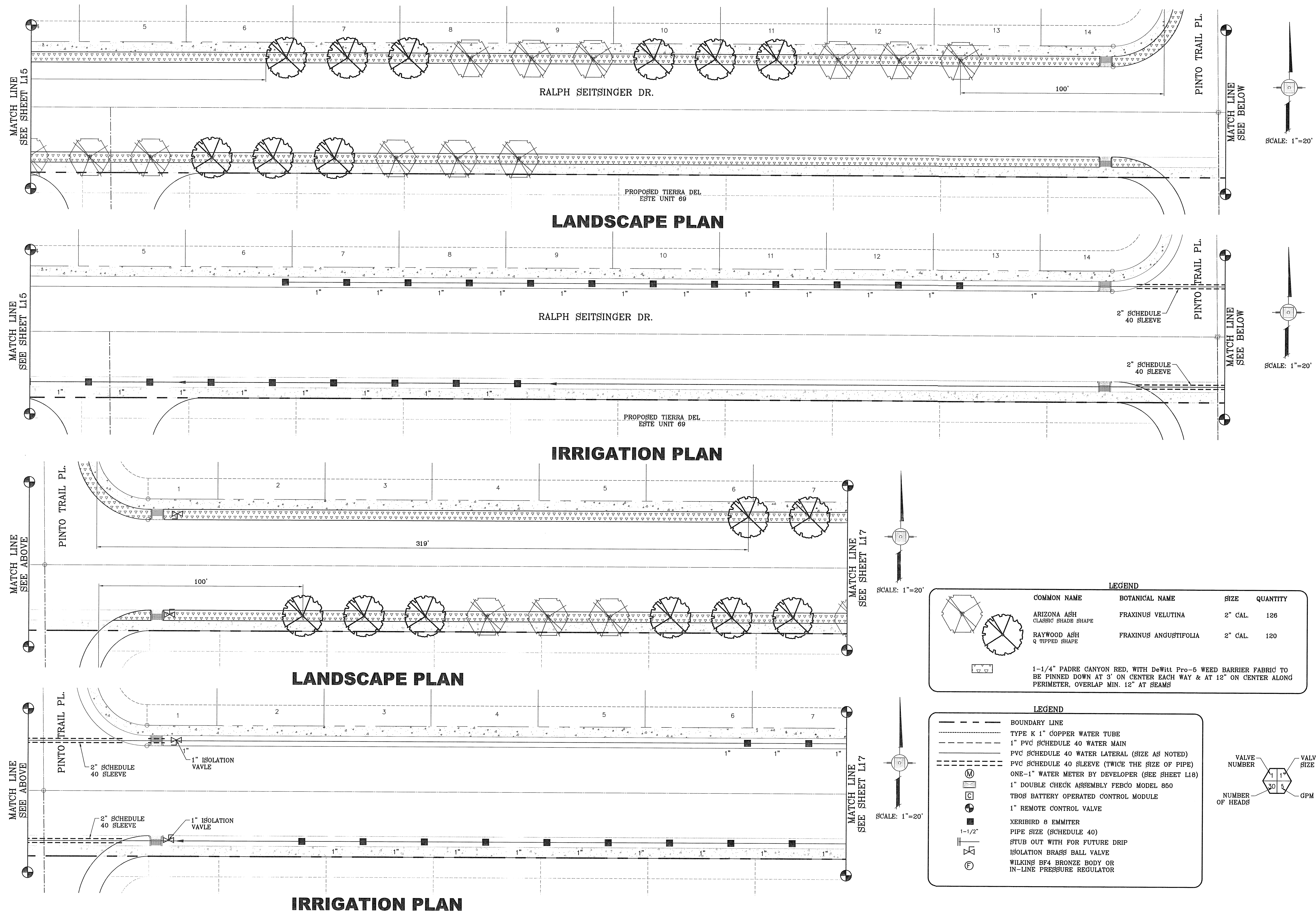
JOB NO.: 1110-18

CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0263  
FAX: (915) 592-0286

CONDE INC.  
REGISTRATION No. F-2221

SHEET TITLE  
**MIKE PRICE LANDSCAPE & IRRIGATION PLAN**

FILE LOCATION S:\LANDSCAPE\TDE 67\TDE\_67\_LANDSCAPE & IRRIGATION PLOTTED ON Thursday, August 23, 2012 9:24:01 AM BY OSCAR MEDINA



RALPH SEITSINGER DR.

PROPOSED TIERRA DEL ESTE UNIT 69

**LANDSCAPE PLAN**

RALPH SEITSINGER DR.

PROPOSED TIERRA DEL ESTE UNIT 69

**IRRIGATION PLAN**

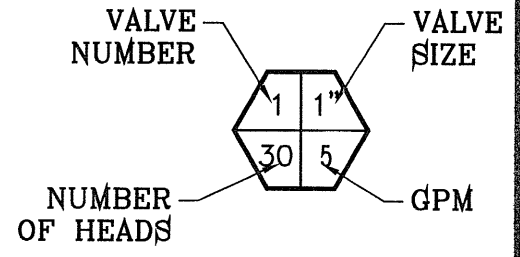
**LANDSCAPE PLAN**

**IRRIGATION PLAN**

LEGEND			
COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY
ARIZONA ASH CLASSIC SHADE SHAPE	FRAXINUS VELUTINA	2" CAL.	126
RAYWOOD ASH Q TIPPED SHAPE	FRAXINUS ANGUSTIFOLIA	2" CAL.	120

1-1/4" PADRE CANYON RED, WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS

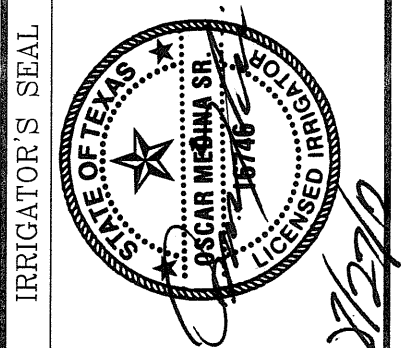
LEGEND	
	BOUNDARY LINE
	TYPE K 1" COPPER WATER TUBE
	1" PVC SCHEDULE 40 WATER MAIN
	PVC SCHEDULE 40 WATER LATERAL (SIZE AS NOTED)
	PVC SCHEDULE 40 SLEEVE (TWICE THE SIZE OF PIPE)
	ONE-1" WATER METER BY DEVELOPER (SEE SHEET L16)
	1" DOUBLE CHECK ASSEMBLY FEBCO MODEL 860
	TBO5 BATTERY OPERATED CONTROL MODULE
	1" REMOTE CONTROL VALVE
	XERIBIRD 8 EMMITER
	PIPE SIZE (SCHEDULE 40)
	STUB OUT WITH FOR FUTURE DRIP
	ISOLATION BRASS BALL VALVE
	WILKINS BF4 BRONZE BODY OR IN-LINE PRESSURE REGULATOR



BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47  
DATE  
REVISIONS  
BY

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.284± ACRES

S C A L E  
HORIZ: 1"=20'  
VERT: ---  
DATE: AUGUST 2011  
DESIGN BY: OM  
INITIATED BY: OM  
CHECKED BY: YC  
JOB NO.: 1110-18



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GFS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

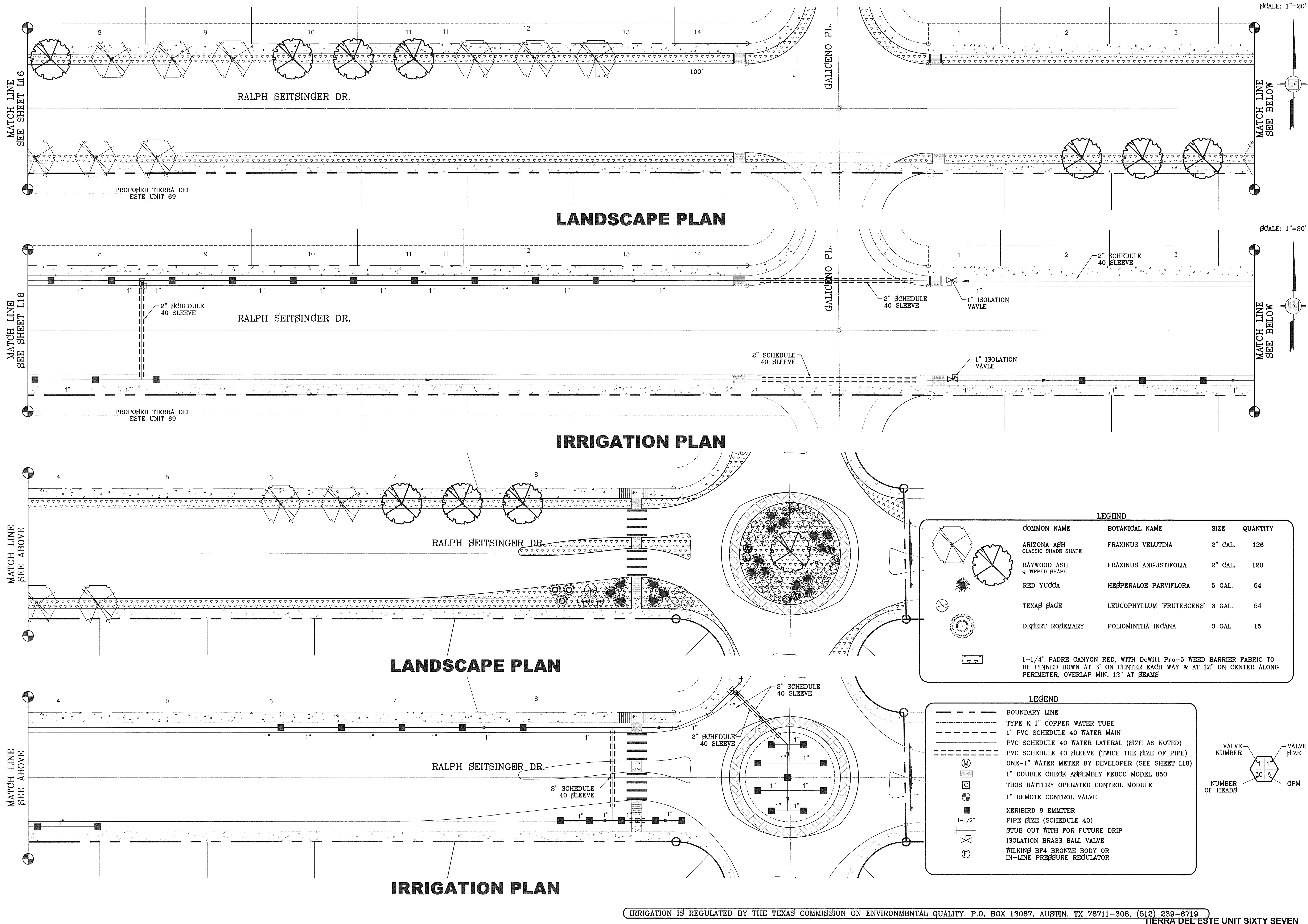


SHEET TITLE  
**RALPH SEITSINGER LANDSCAPE & IRRIGATION PLAN**

IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TX 78711-308, (512) 239-8719

TIERRA DEL ESTE UNIT SIXTY SEVEN

FILE LOCATION S:\LANDSCAPE\TDE 67\TDE\_67-LANDSCAPE & IRRIGATION PLOTTED ON Thursday, August 23, 2012 9:24:12 AM BY OSCAR MEDINA



**LANDSCAPE PLAN**

**IRRIGATION PLAN**

**LANDSCAPE PLAN**

**IRRIGATION PLAN**

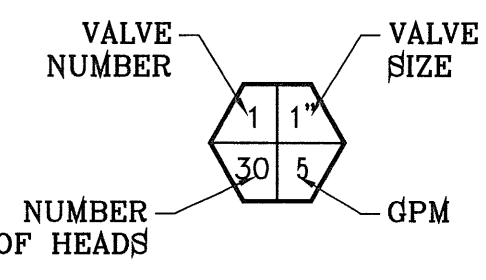
**LEGEND**

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY
ARIZONA ASH CLASSIC SHADE SHAPE	FRAXINUS VELUTINA	2" CAL.	126
RAYWOOD ASH Q TIPPED SHAPE	FRAXINUS ANGUSTIFOLIA	2" CAL.	120
RED YUCCA	HESPERALOE PARVIFLORA	6 GAL.	64
TEXAS SAGE	LEUCOPHYLLUM 'FRUTESCENS'	3 GAL.	64
DESERT ROSEMARY	POLIOMINTHA INCANA	3 GAL.	15

1-1/4" PADRE CANYON RED, WITH DeWitt Pro-5 WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS

**LEGEND**

---	BOUNDARY LINE
---	TYPE K 1" COPPER WATER TUBE
---	1" PVC SCHEDULE 40 WATER MAIN
---	PVC SCHEDULE 40 WATER LATERAL (SIZE AS NOTED)
---	PVC SCHEDULE 40 SLEEVE (TWICE THE SIZE OF PIPE)
---	ONE-1" WATER METER BY DEVELOPER (SEE SHEET L16)
---	1" DOUBLE CHECK ASSEMBLY FEBCO MODEL 850
---	TBO5 BATTERY OPERATED CONTROL MODULE
---	1" REMOTE CONTROL VALVE
---	XERIBIRD 8 EMMITER
---	PIPE SIZE (SCHEDULE 40)
---	STUB OUT WITH FOR FUTURE DRIP
---	ISOLATION BRASS BALL VALVE
---	WILKINS BP4 BRONZE BODY OR IN-LINE PRESSURE REGULATOR



SCALE: 1"=20'

SCALE: 1"=20'

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

DATE  
AUGUST 2011

DESIGN BY  
OM

INITIATED BY  
OM

CHECKED BY  
YC

JOB NO.  
1110-18

IRRICATOR'S SEAL  
OSCAR MEDINA SR.  
REGISTERED PROFESSIONAL SURVEYOR  
STATE OF TEXAS  
NO. 44746

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

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

NAVDB DATUM

REVISIONS

BY

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY Co. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**RALPH SEITSINGER LANDSCAPE & IRRIGATION PLAN**

REGISTRATION No. P-3321

SHT L17 OF 18

TERRA DEL ESTE UNIT SIXTY SEVEN

IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TX 78711-308, (512) 239-6719

FILE LOCATION S:\LANDSCAPE & IRRIGATION PLOTTED ON Thursday, August 23, 2012 9:24:17 AM BY OSCAR MEDINA

**LANDSCAPE NOTES:**

- PLANT MATERIAL SUBSTITUTIONS SHALL NOT BE MADE WITHOUT THE WRITTEN PERMISSION OF THE OWNER. THE USE OF MATERIALS DIFFERING IN KIND, QUALITY OR SIZE FROM THAT SPECIFIED WILL BE ALLOWED ONLY AFTER OWNER IS CONVINCED THAT ALL MEANS OF OBTAINING THE SPECIFIED MATERIAL HAVE BEEN EXHAUSTED. AT THE TIME BIDS ARE SUBMITTED, THE CONTRACTOR IS ASSUMED TO HAVE LOCATED THE MATERIALS NECESSARY TO COMPLETE THE JOB AS SPECIFIED. ALL REQUESTS FOR SUBSTITUTIONS MUST BE SUBMITTED NO LATER THAN TWO WEEKS PRIOR TO THE INITIATION OF WORK.
- PLANT MATERIAL QUALITY, SIZE AND CONDITION SHALL BE IN ACCORDANCE WITH AMERICAN STANDARD FOR NURSERY STOCK, 1980 EDITION, AS PUBLISHED BY THE COMMITTEE ON HORTICULTURAL STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY. ALL PLANTS SHALL HAVE NORMAL, WELL DEVELOPED BRANCHES AND VIGOROUS ROOT SYSTEMS. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, FREE FROM DEFECTS, DISFIGURING KNOTS, ABRASIONS OF THE BARK, UNSCALED INJURIES, PLANT DISEASES, INSECT EGGS, BORES AND ALL OTHER FORMS OF INFECTIONS.
- UNLESS OTHERWISE STATED ON THE DRAWINGS OR APPROVED BY THE OWNER'S REPRESENTATIVE, ALL PLANTS SHALL BE NURSERY GROWN AND SHALL BE TAGGED WITH NURSERY LABELS INDICATING SPECIES AND VARIETY.
- NON-CONTAINER GROWN PLANTS SHALL HAVE A SOLID BALL OF EARTH OF MINIMUM SPECIFIED SIZE AND HELD IN PLACE SECURELY BY BURLAP AND A STOUT TWINE OR ROPE. SEE TREE AND SHRUB PLANTING DETAIL. BROKEN OR LOOSE BALLS WILL BE REJECTED.
- UNLESS SPECIFICALLY NOTED ON DRAWING, ALL TREES SHALL HAVE A SINGLE TRUNK THAT IS STRAIGHT AND FREE OF "DOG-LEGS" "CROOKS" "Y-CROTHCES", OR OTHER DISFIGURING SHAPES. THE CENTRAL LEADER OF ALL TREES SHALL NOT HAVE BEEN PRUNED. TREES WITH DOUBLE LEADERS ARE NOT ACCEPTABLE, UNLESS SPECIFIED AS MULTI-TRUNKED.
- ALL PLAN MATERIAL SHALL HAVE A UNIFORM SHAPE AROUND ITS COMPLETE CIRCUMFERENCE. PLAN MATERIAL WITH IRREGULAR BRANCHING PATTERNS OR WITH BRANCHING PATTERNS MORE HIGHLY DEVELOPED ON ONE SIDE THAN ON OTHER SIDES SHALL NOT BE ACCEPTABLE.
- THE OWNER'S REPRESENTATIVE SHALL BE THE JUDGE OF THE QUALITY AND ACCEPTABILITY OF ALL PLANT MATERIALS. ALL REJECTED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND REPLACED WITH ACCEPTABLE MATERIALS AT NO ADDITIONAL COST TO OWNER.
- ALL TREES, SHRUBS AND GROUND COVERS SHALL BE GUARANTEED FOR THE PERIOD OF ONE FULL YEAR BEGINNING ON THE DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL REPLACE ANY DEAD OR UNHEALTHY PLANTS WITHIN 10 WORKING DAYS OF WRITTEN NOTIFICATION AT NO EXPENSE TO THE OWNER. THE CONTRACTOR SHALL NOT BE RESPONSIBLE NOR VANDALIZED PLANT MATERIAL.
- ALL PLANTING BEDS SHOWN ON PLANS SHALL BE MULCHED. NO BEDS WILL BE LEFT UNCOVERED OR NOT TOP DRESSED, UNLESS OTHERWISE SPECIFIED.

**GRADING**

- PERFORM GRADING AND EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE SPECIFICATIONS, REQUIREMENTS, CODES AND ORDINANCES OF ALL GOVERNING BODIES HAVING JURISDICTION.
- FINE GRADING: SURFACE SHALL BE RAKED FREE OF STONES AND EXTRANEOUS MATERIALS AND DEBRIS TO A SMOOTH AND EVEN TEXTURE. ALL EXTRANEOUS MATTER WILL BE DISPOSED OF BY CONTRACTOR.

**PROTECTIONS:**

- CONTRACTOR SHALL BE FAMILIAR WITH PLANS, DETAILS AND SPECIFICATIONS AS THEY PERTAIN TO THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVE IF ANY ITEMS CONTAINED WITHIN THE SCOPE OF WORK DEFINED HEREIN ARE IN CONFLICT WITH PROPOSED CONTRACT.
- EXISTING UTILITY LINES ARE TO BE BLUE STAKED PRIOR TO EXCAVATION. CHECK AND FIELD VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO EXCAVATION. CALL FOR BLUE STAKING.
- THE CONTRACTOR SHALL BE LIABLE FOR ANY LOOSE OR DAMAGE TO ANY WORK OR MATERIALS, SUPPLIES AND EQUIPMENT ON THE JOB SITE CAUSED BY THE CONTRACTOR OR ITS EMPLOYEES.
- CONTRACTOR IS TO BARRICADE OPEN EXCAVATIONS OCCURRING AS PART OF THIS WORK AND POST WITH WARNING LIGHTS OR OTHER WARNING MEASURES AS NECESSARY. PROTECTION OF EXISTING SHRUBS, TREES, AND OTHER PLANT MATERIALS ARE ALSO TO BE INCLUDED.
- PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY EARTHWORK OPERATIONS. ALL DAMAGES THAT MY OCCUR DURING THIS PHASE OF WORK SHALL BE THE CONTRACTOR'S FINANCIAL RESPONSIBILITY.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS.

**IRRIGATION NOTES:**

- ALL WORK MUST BE IN COMPLIANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY RULES AND REGULATIONS.
- ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL PROVIDED ALL EQUIPMENT, TOOLS, PRODUCTS, MATERIALS, LABOR, TRANSPORTATION AND OBTAIN ALL PERMITS AND PAY ALL REQUIRED FEES.
- ALL PAVEMENT TRENCHING SHALL BE IN PERFORMED TO THE CITY OF EL PASO FOR PUBLIC WORK CONSTRUCTION.
- PIPING UNDER HARDSCAPES (DRIVEWAYS, SIDEWALKS, etc. etc.) SHALL REQUIRE SLEEVING. GENERALLY TWO SIZES LARGER THAN IRRIGATION PIPING AND ONE FOOT BEYOND EDGE OF HARDSCAPE.
- ALL SPRINKLER HEADS ADJACENT TO HARDSCAPES SHALL BE PLACED A MINIMUM OF ONE FOOT FROM EDGE OF SURFACING.
- SOME PIPES, VALVES, BACKFLOWS etc. etc. HAVE BEEN SHOWN IN PAVING, SIDEWALKS OR OUTSIDE THE BOUNDARY FOR CLARITY ONLY.
- CONTRACTOR IS REQUIRED TO APPLY FOR AND OBTAIN IRRIGATION PERMIT FROM B&I

**TRENCHING**

- CONTACT LOCAL UTILITY COMPANIES AND BLUE STAKE ALL UTILITIES PRIOR TO EXCAVATION.
- ALL TRENCHING SHALL BE DONE IN STRICT ACCORDANCE WITH OSHA-2226.
- PIPES MUST BE FLUSHED AND INSPECTED BY PROJECT INSPECTOR BEFORE INSTALLING VALVES AND SPRINKLERS.
- PIPES SHALL NOT BE BURIED UNTIL INSPECTED BY PROJECT INSPECTOR. CONTRACTOR MUST UNCOVER THE WORK TO BE INSPECTED AND/OR TESTED AND BE RE-BURIED AT THEIR EXPENSE.
- AVOID OBSTACLES (UTILITIES, TREE ROOTS, BOULDERS etc. etc.) ALLOW A MINIMUM OF TWO INCHES OF COVERAGE
- BACKFILL MATERIAL SHALL CONTAIN NO LUMPS, ROCKS LARGER THAN ONE INCH OR ORGANIC MATERIAL. BACKFILL MATERIAL MUST BE APPROVED BY PROJECT INSPECTOR PRIOR FILLING OF TRENCHES.
- IF EXCAVATING 16 INCHES OR DEEPER WITH POWER EQUIPMENT, YOU MUST BY LAW CALL 1-800-DIG TESS (800-344-8377) 48 HOURS BEFORE EXCAVATING.
- LATERAL LINES SHALL BE TO A DEPTH OF 12". MAIN LINES SHALL BE TO A DEPTH OF 18" AND VALVE ELECTRICAL WIRES TO A DEPTH OF 18", SEE TRENCH DETAIL ON THIS SHEET.

**SOLVENT WELDING**

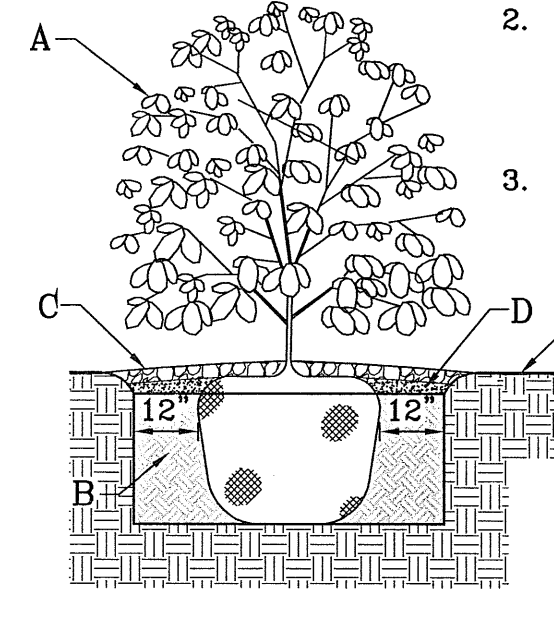
- PIPE BENDS AND FITTINGS MUST BE INSPECTED DURING PRESSURE TEST. SOLVENT WELDING IS REQUIRED ON ALL PIPE BENDS AND FITTINGS. INSTALL ACCORDING TO MANUFACTURES SPECIFICATIONS.
- LACK OF SUFFICIENT SOLVENT WILL RESULT IN A WEAK CONNECTION, EXCESS SOLVENT WILL WEAKEN THE STRUCTURE. USE THE RIGHT AMOUNT OF SOLVENT FOR A SOUND INSTALLATION.
- CLEAN OFF ALL BURRS FROM PIPE CUTS, BEVEL THE END OF THE MAIN LINE.
- USE PRIMER TO CLEAN AND PREPARE THE PIPES BEING JOINED, WIPE EXCESS SOLVENT FROM JOINT.

**ELECTRICAL WIRING**

- WIRES SHOULD NOT BE STRETCHED TIGHT IN THE TRENCHES, ALLOW EXTRA WIRE FOR SHARP TURNS IN THE TRENCHES.
- WIRING SHALL BE UL LISTED FOR DIRECT BURIAL AND SIZED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- DIRECT BURIAL WIRE SPLICES MUST BE WATERPROOF AS PER MANUFACTURER'S SPECIFICATIONS.
- WIRES SHALL BE LABELED WITH WATERPROOF TAGS AT THE CONTROLLER AND VALVE BOX.

**GENERAL NOTES:**

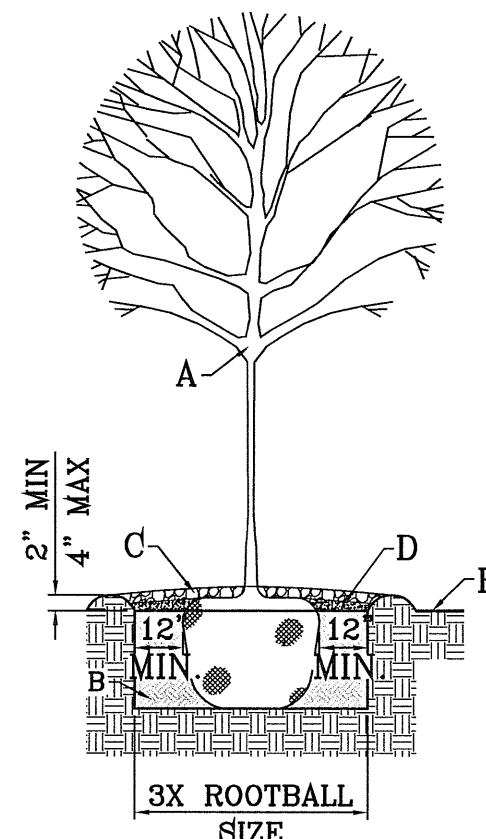
- STABILIZED SOIL BELOW ROOT BALL TO PREVENT SHRUB FROM SETTLING.
- PRIOR TO BACKFILLING SHRUB, ALL WIRE, ROPE AND SYNTHETIC MATERIALS SHALL BE REMOVED FROM THE SHRUB ROOT BALL AND THE PLANTING PIT.
- PRIOR TO BACKFILLING, ALL BURLAP SHALL BE CUT AWAY AND REMOVED FROM THE TOP AND SIDES OF THE ROOT BALL.



SHRUB PLANTING DETAIL  
SCALE: 1"=3'

**CONSTRUCTION NOTES:**

- SHRUB.
- COMPACTED BACKFILL
- WATER RETENTION BASIN
- 4" DEPTH OF BARK MULCH.
- FINISH GRADE.



TREE PLANTING DETAIL  
SCALE: 1"=4'

**GENERAL NOTES:**

- SOIL BELOW ROOT BALL TO REMAIN UNDISTURBED TO PREVENT TREE FROM SETTLING.
- TOP OF ROOTBALL INDICATES LEVEL AT WHICH TREE WAS GROWN AND DUG± THIS REPRESENTS THE LEVEL AT WHICH THE TREE SHOULD BE INSTALLED± THAT LEVEL MAY ONLY BE EXCEEDED BY A ONE INCH LAYER OF MULCH.
- PRIOR TO BACKFILLING TREE, ALL WIRE, ROPE AND SYNTHETIC MATERIALS SHALL BE REMOVED FROM THE TREE ROOTBALL AND THE PLANTING PIT.
- PRIOR TO BACKFILLING, ALL BURLAP SHALL BE CUT AWAY FROM THE TOP AND SIDES OF THE ROOTBALL.

**CONSTRUCTION NOTES:**

- TREE.
- PLANTING SOIL MIXTURE (REF SPECIFICATIONS).
- WATER RETENTION BASIN
- 4" DEPTH OF BARK MULCH.
- FINISH GRADE.

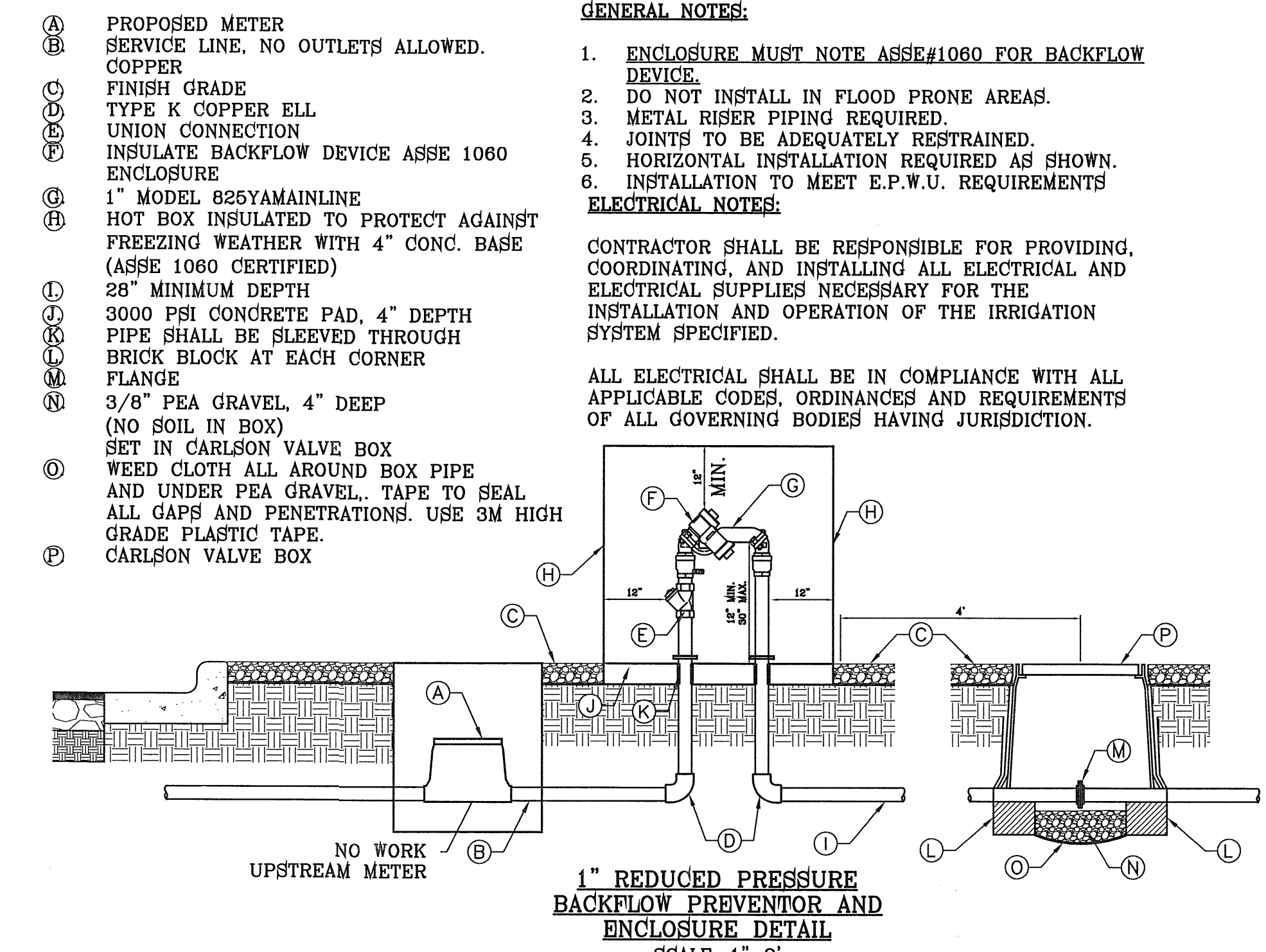
**GENERAL NOTES:**

- ENCLOSURE MUST NOTE ASSE#1060 FOR BACKFLOW DEVICE.
- DO NOT INSTALL IN FLOOD PRONE AREAS.
- METAL RISER PIPING REQUIRED.
- JOINTS TO BE ADEQUATELY RESTRAINED.
- HORIZONTAL INSTALLATION REQUIRED AS SHOWN.
- INSTALLATION TO MEET E.P.W.U. REQUIREMENTS

**ELECTRICAL NOTES:**

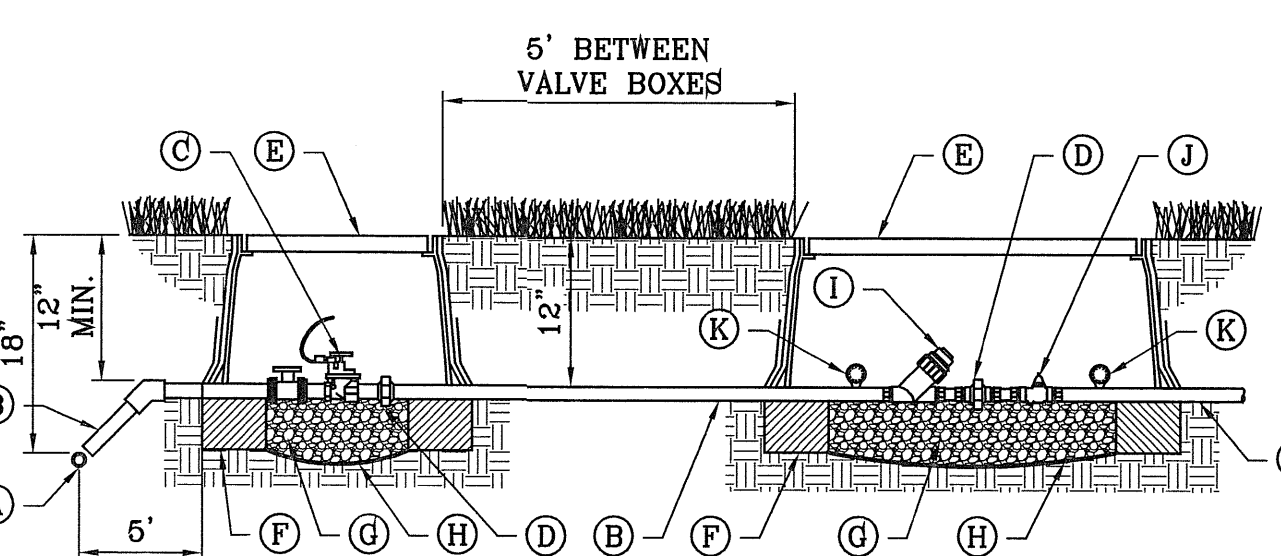
CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, COORDINATING, AND INSTALLING ALL ELECTRICAL AND ELECTRICAL SUPPLIES NECESSARY FOR THE INSTALLATION AND OPERATION OF THE IRRIGATION SYSTEM SPECIFIED.

ALL ELECTRICAL SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES, ORDINANCES AND REQUIREMENTS OF ALL GOVERNING BODIES HAVING JURISDICTION.



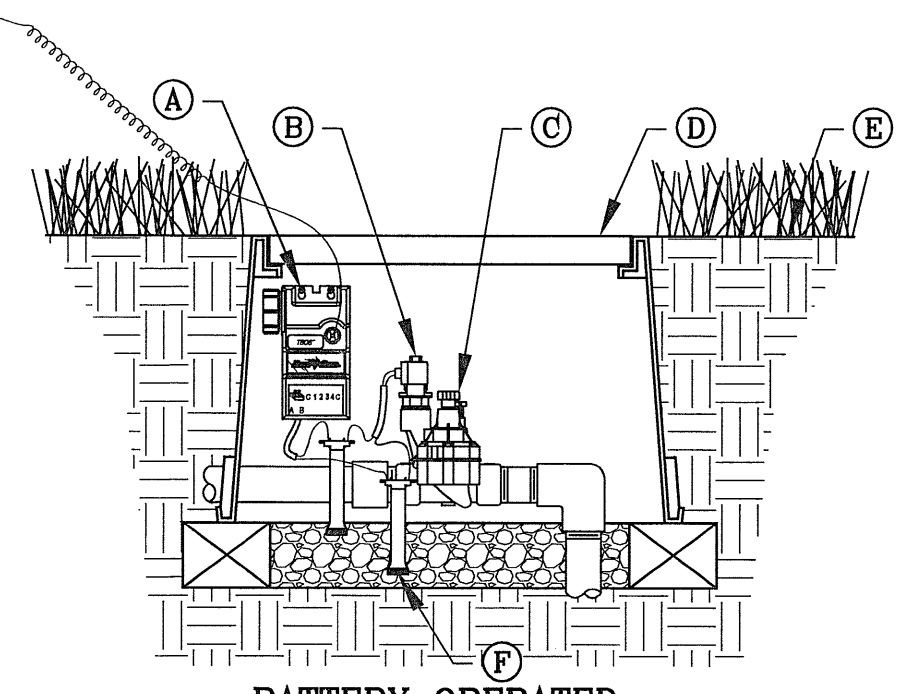
1" REDUCED PRESSURE BACKFLOW PREVENTOR AND ENCLOSURE DETAIL  
SCALE: 1"=2'

- PVC MAINLINE
- PVC LATERAL
- RAINBIRD 100-PESB IRRIGATION VALVE
- SCHEDULE 80 PVC UNION
- 1419 CARSON VALVE BOX W/ LID & BOLT (NO SOIL IN BOX)
- BRICK BLOCK AT EACH CORNER
- 3/8" PEA GRAVEL, 4" DEEP (NO SOIL IN BOX)
- PROVIDE WEED BARRIER FABRIC 'DeWITT PRO 5' UNDER AND AROUND VALVE BOX AND SEAL ALL PIPE PENETRATIONS
- RAINBIRD WYE STRAINER
- WILKINS BF4 BRONZE BODY OR IN-LINE PRESSURE REGULATOR
- GAUGE

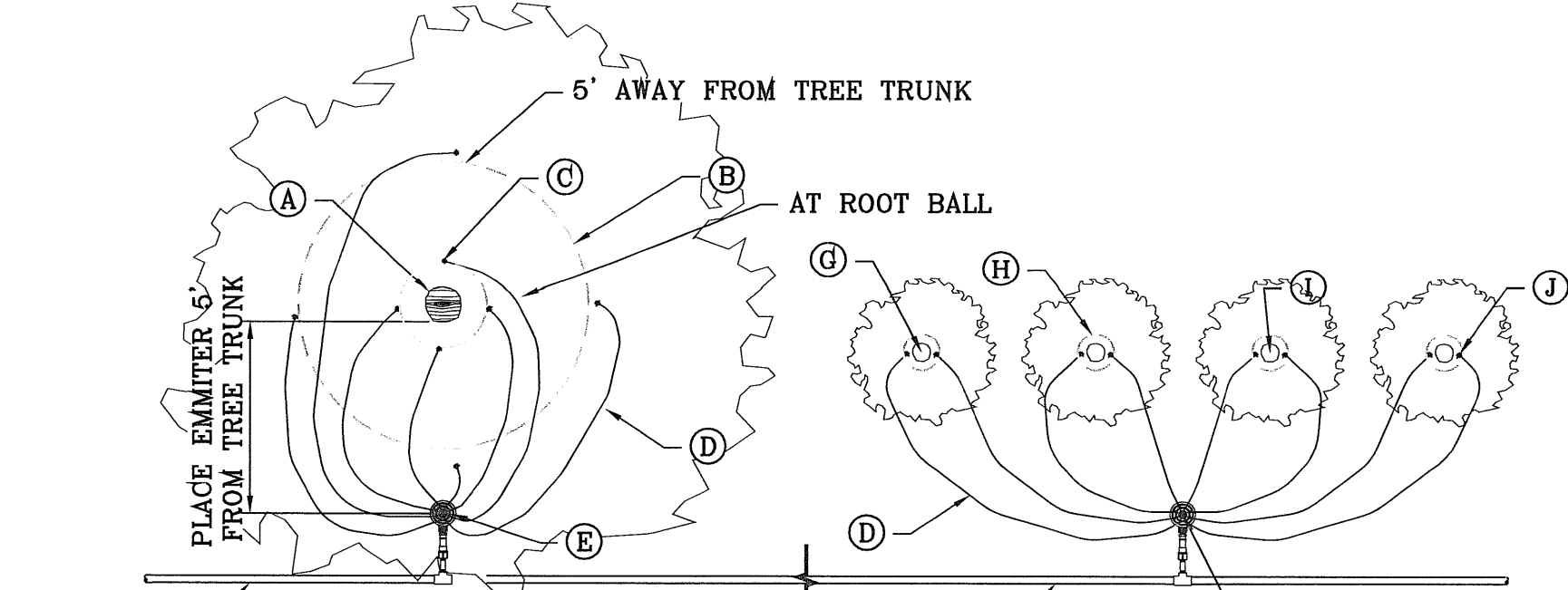


ELECTRIC CONTROL VALVE WITH FILTER & PRESSURE REGULATOR DETAIL  
SCALE: 1"=1'

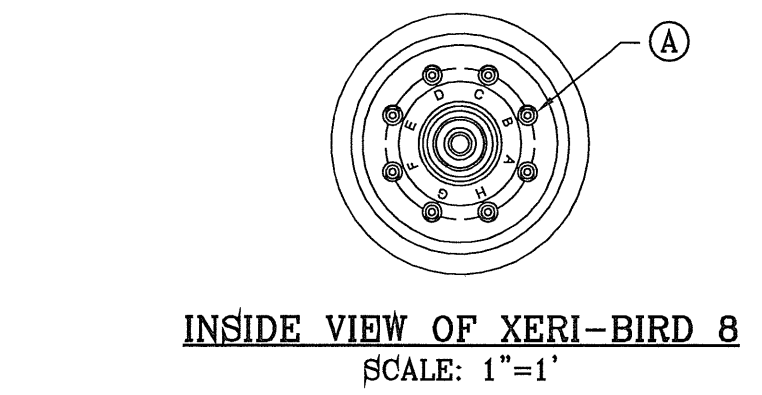
- TREE TRUNK
- EMITTER 5' FROM TREE TRUNK (1 OF 4)
- EMITTER @ ROOT BALL (1 OF 4)
- 1/4" CAPILLARY TUBING (0.170 I.D. X 0.250 O.D.)
- 8 OUTLET EMITTER
- PVC SUPPLY LATERAL FROM ZONE CONTROL VALVE
- ROOT BALL
- PLANT PIT
- SHRUB CENTER
- EMITTER TUBING PLACEMENT



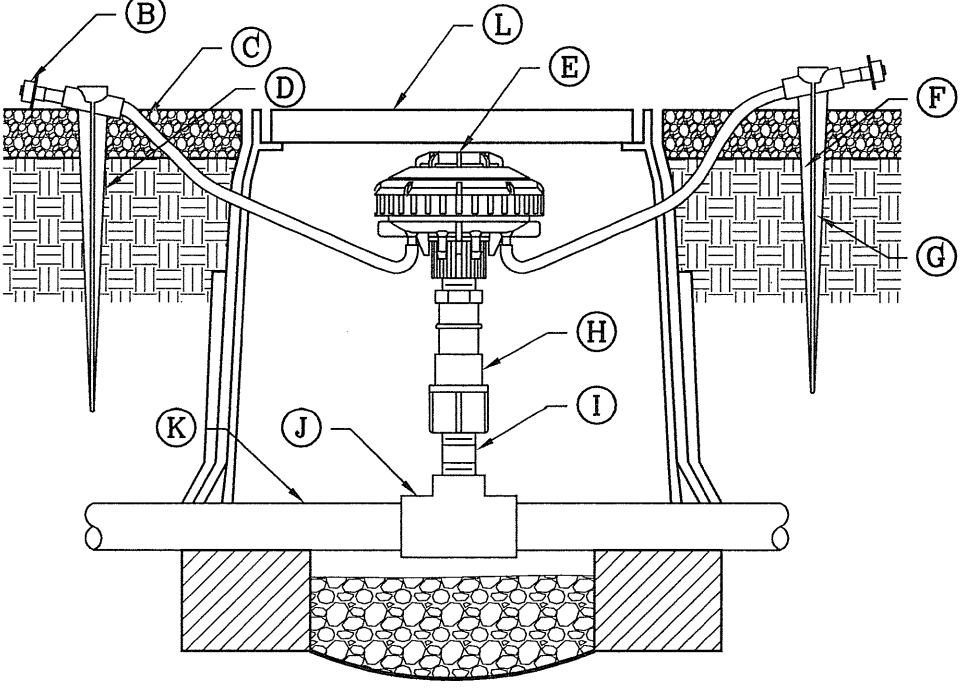
BATTERY OPERATED CONTROLLER AND VALVE TBO'S WITH TRANSMITTER FOR MEDIAN ONLY  
SCALE: 1"=6'



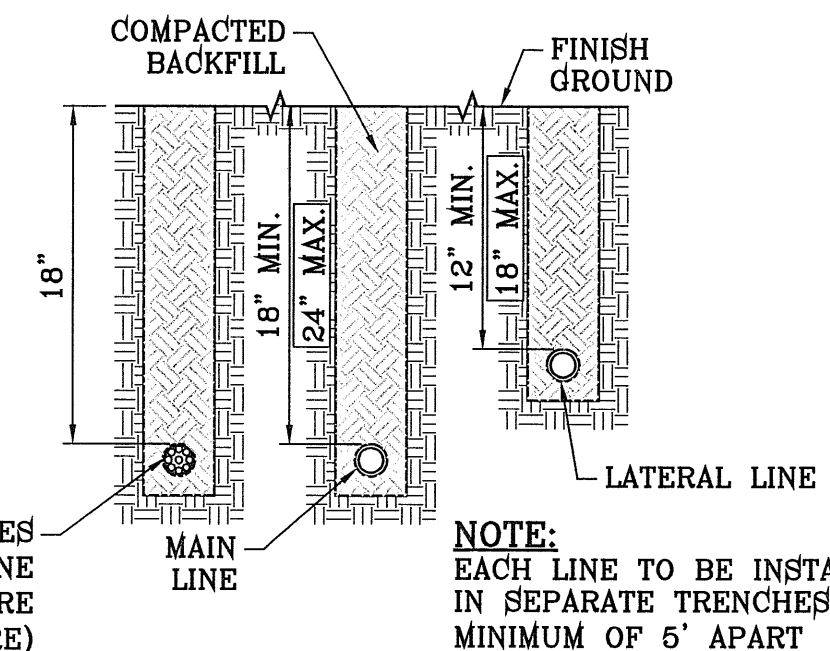
EMITTER PLACEMENT  
SCALE: 1"=6'



INSIDE VIEW OF XERI-BIRD 8  
SCALE: 1"=1'



XERI-BIRD 8 WITH PC EMITTERS AT GRADE  
SCALE: 1"=1'



TRENCH DETAIL  
SCALE: 1"=1'

BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF  
JOHN HAYES ST. AND SPANISH POINT JAV.  
ELEVATION 4017.47  
DATE  
REVISIONS

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**  
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2,  
RANGE 13N, COUNTY OF EL PASO, TEXAS  
CITY OF EL PASO, COUNTY OF TEXAS  
CONTAINING: 1.662.254± ACRES

SCALE  
HORIZ: AS NOTED  
VERT: ---  
DATE: AUGUST 2011  
DESIGN BY: OM  
INITIATED BY: OM  
CHECKED BY: YC  
JOB NO.: 1110-18

CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



SHEET TITLE

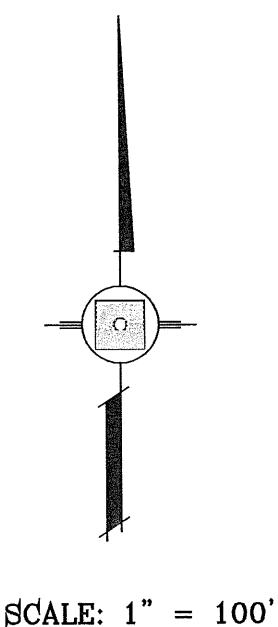
**LANDSCAPE & IRRIGATION DETAILS**

WATERSHED-POND	
$Q = \frac{A \cdot R \cdot C}{12} = \text{AC-FT}$	
POND CALC. Q=ACR/12 A=TOTAL RUNOFF IN AC/FT.(100%) R=RAINFALL IN INCHES C=RUNOFF FACTOR	
RESIDENTIAL AND POND	$\frac{53.74(4)0.80}{12} = 10.75 \text{ ac-ft}$
FUTURE COMM.	$\frac{5.74(4)0.95}{12} = 1.82 \text{ ac-ft}$
TOTAL = 12.57 ac-ft	
SILT & DEBRIS = 0.71 ac-ft	
Qreq (TOTAL)	13.28
Qcap (TOTAL)	21.29
100 YEAR HW ELEVATION = 4013.89	
100 YEAR PONDED DEPTH = 4014.45	

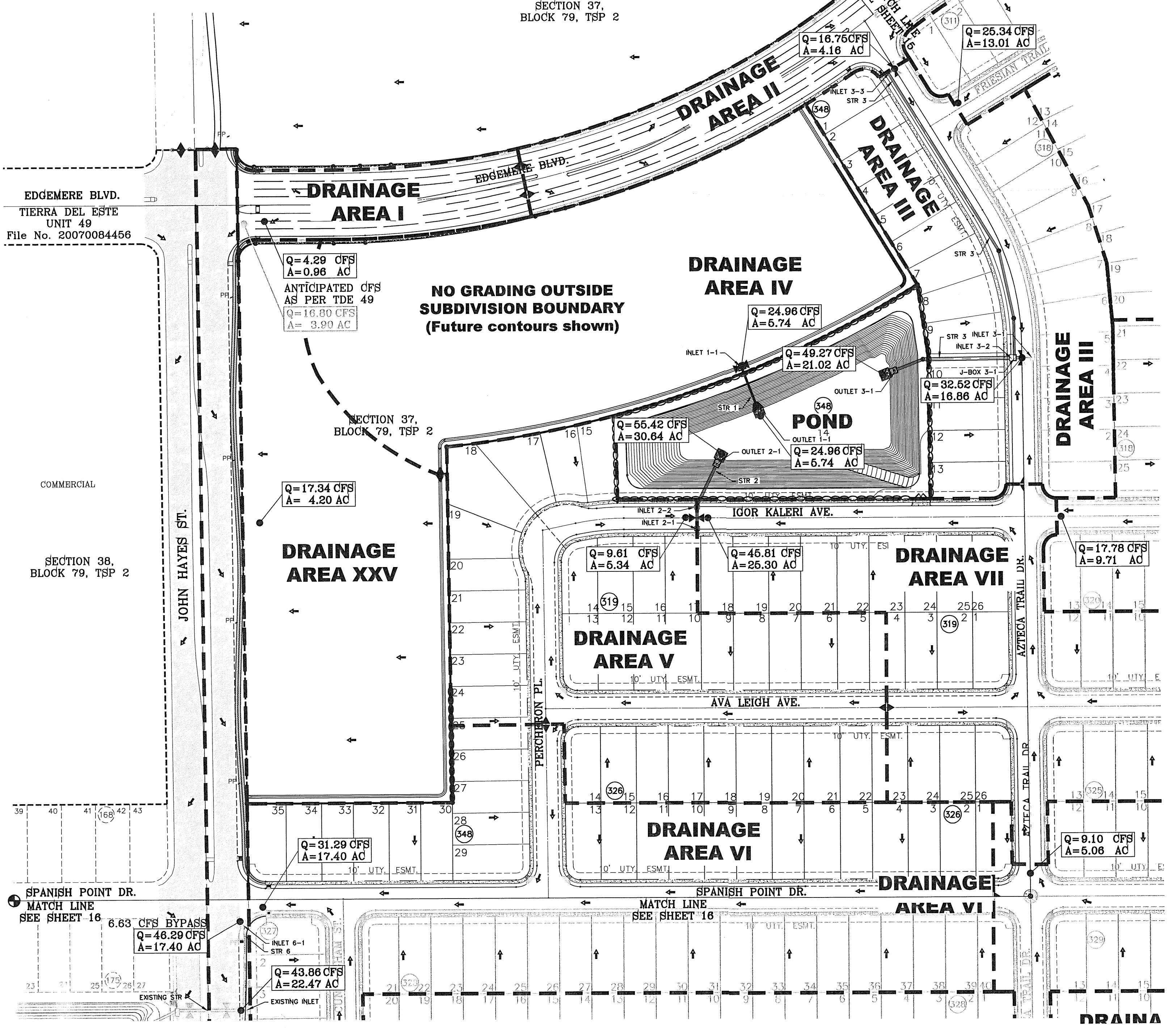
INLET DATA				
INLET No.	INLET TYPE	No. GRATES	Qd cfs	Qc cfs
1-1	OFF-ST	2	24.96	27.82
2-1	I	3	27.71	32.52
2-2	I	3	27.71	32.52
3-1	I	4	29.00	43.36
3-2	I	4	42.56	43.36
3-3	II	12	16.58	92.64

CLOGGING FACTOR IS EQUAL TO 2/3

- NOTES:
- POND DESIGN, SIDE SLOPES, BENCHING, & DRAINAGE CALCULATIONS SHALL CONFORM TO REQUIREMENTS OF "DRAINAGE DESIGN MANUAL", "DESIGN STANDARDS FOR CONSTRUCTION" AND "AMEND GRADING ORDINANCE"
  - SEE SHEET 91 AND 92 OF 112 FOR DRAINAGE STRUCTURES.
  - DEVELOPER IS RESPONSIBLE FOR MAINTENANCE OF ALL OFF-SITE DRAINAGE STRUCTURES.



DRAINAGE AREA	AREA (acres)	Tc (min.)	c	Io (in/hr)	Q <sub>100</sub> CFS	Q <sub>10</sub> CFS
I	0.96	8	0.95	4.71	4.29	5.15
II	4.16	12	0.95	4.24	16.75	20.16
III	3.85	25	0.58	3.21	7.18	8.69
IV	5.74	9	0.95	4.58	24.96	29.98
V	5.34	27	0.58	3.10	9.61	11.64
VI	8.28	27	0.58	3.10	14.88	18.03
VII	10.53	27	0.58	3.10	18.93	22.94
VIII	3.24	10	0.95	4.46	13.72	16.50
IX	6.10	27	0.58	3.10	10.97	13.29
X	2.85	16	0.58	3.95	6.53	7.87
XI	4.05	23	0.58	3.34	7.84	9.49
XII	8.98	24	0.58	3.27	17.05	20.64
XIII	9.71	26	0.58	3.16	17.78	21.54
XIV	5.06	27	0.58	3.10	9.10	11.02
XV	11.00	27	0.58	3.10	19.78	23.96
XVI	9.12	27	0.58	3.10	16.41	19.88
XVII	5.60	27	0.58	3.10	10.06	12.19
XVIII	9.12	27	0.58	3.10	16.40	19.87
XIX	10.39	27	0.58	3.10	18.68	22.63
XX	6.51	27	0.58	3.10	11.70	14.18
XXI	2.86	12	0.95	4.24	11.53	13.88
XXII	11.03	27	0.58	3.10	19.83	24.02
XXIII	9.67	27	0.58	3.10	17.39	21.07
XXIV	1.87	27	0.95	3.10	6.50	6.66
XXV	4.20	11	0.95	4.35	17.34	20.86
XXVI	1.00	11	0.95	4.35	4.14	4.98
XXVII	2.60	12.5	0.90	4.60	10.76	11.80
XXVIII	2.14	11	0.90	4.90	9.44	10.07
XXIX	4.64	27	0.58	3.10	8.34	10.10
XXX	0.91	11	0.90	4.35	3.55	4.27
XXXI	0.72	10	0.90	5.00	3.24	3.47
POND	2.08	ON SITE PONDING-SEE POND CALCULATIONS				
PARK A	1.39	ON SITE PONDING-SEE PARK CALCULATIONS				
PARK B	6.95	ON SITE PONDING-SEE PARK CALCULATIONS				



LEGEND

Q	RUN-OFF QUANTITY (CUBIC Ft/Sec)
A	WATERSHED AREA (ACRES)
▲	HIGH POINT
▼	LOW POINT
→	DRAINAGE FLOW
- - -	PROPOSED DRAINAGE AREA

NOTE:  
HEREON DESCRIBED TRACT LIES IN ZONE X, COMMUNITY PANEL NO. 480212 0175B. DATED SEPTEMBER 4, 1991.

STREET CARRYING CAPACITY					
STREET NAME	STATION	Q <sub>10</sub> CFS	Q <sub>100</sub> CFS	Velocity	Depth
IGOR KALERI AVE.	8+00.00	45.81	49.81	3.68	0.48'
AZTECA TRAIL DR.	4+50.00	32.52	49.89	3.21	0.41'

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.

ELEVATION 4077.47

DATE 10/9/11

REVISIONS AS PER 8/24/11 REDLINES

DATE 11/1/11

REVISIONS AS PER 10/19/11 REDLINES

O.M. O.M.

PROJECT NAME

**TERRA DEL ESTE UNIT SIXTY SEVEN**

BRING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.284± ACRES

SCALE

HORIZ: 1" = 100'

VERT: 1" = 100'

DATE: MAY 2012

DESIGN BY: MF

INITIATED BY: BFO/MOM

CHECKED BY: YC

JOB NO.: 1110-18

ENGINEER'S SEAL

CONDE INC.

ENGINEERING / PLANNING SURVEYING / GPS

6080 SURETY DR. SITE 100 EL PASO, TEXAS 79905

PHONE: (915) 692-0283

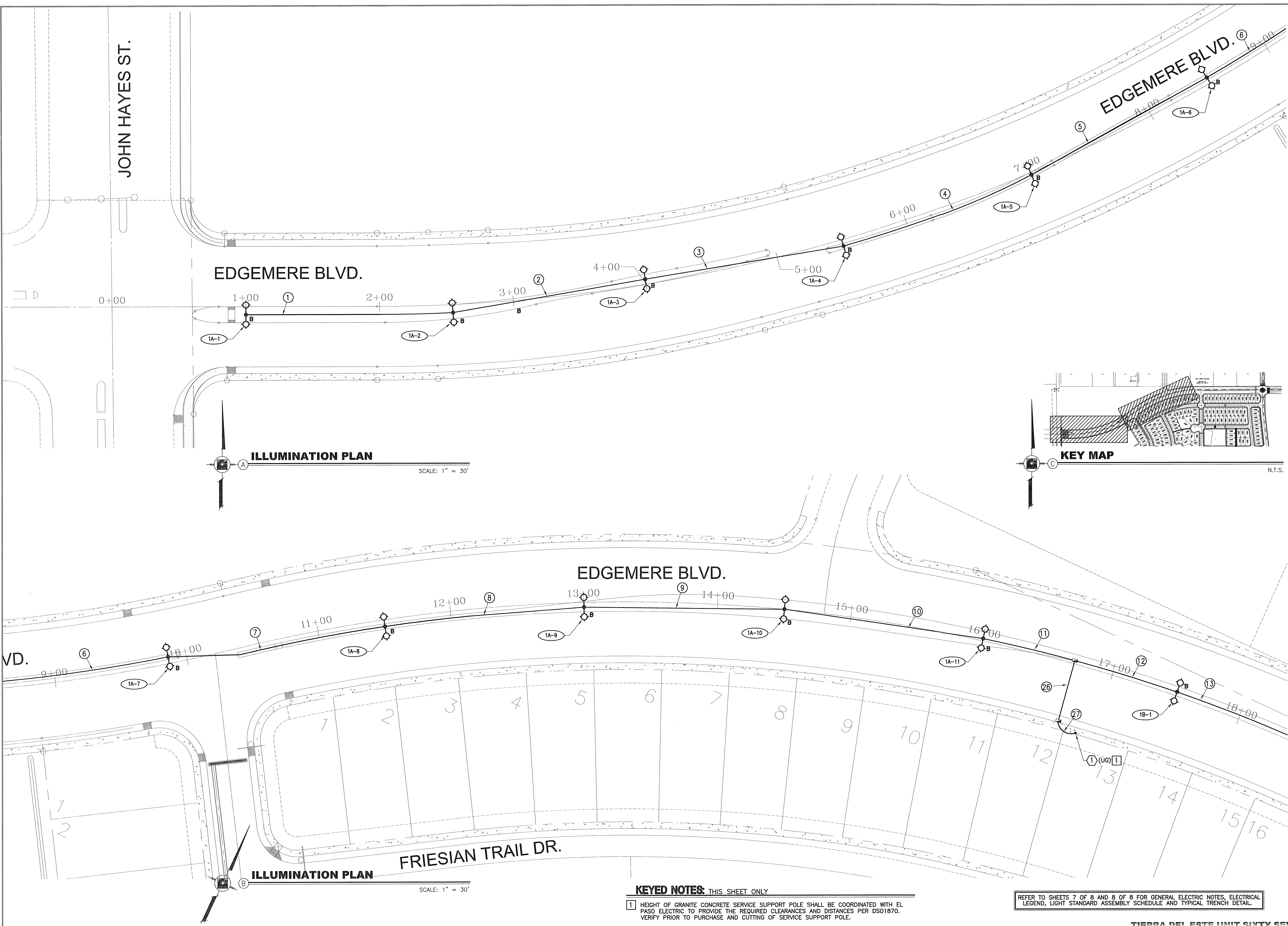
FAX: (915) 692-0286

CONDE INC. REGISTRATION NO. F-2321

SHEET TITLE

**DRAINAGE PLAN**

SHT 14 OF 112



**ILLUMINATION PLAN**  
SCALE: 1" = 30'

**KEY MAP**  
N.T.S.

**ILLUMINATION PLAN**  
SCALE: 1" = 30'

**KEYED NOTES: THIS SHEET ONLY**  
 1 HEIGHT OF GRANITE CONCRETE SERVICE SUPPORT POLE SHALL BE COORDINATED WITH EL PASO ELECTRIC TO PROVIDE THE REQUIRED CLEARANCES AND DISTANCES PER DSO1870. VERIFY PRIOR TO PURCHASE AND CUTTING OF SERVICE SUPPORT POLE.

REFER TO SHEETS 7 OF 8 AND 8 OF 8 FOR GENERAL ELECTRIC NOTES, ELECTRICAL LEGEND, LIGHT STANDARD ASSEMBLY SCHEDULE AND TYPICAL TRENCH DETAIL.

BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47
DATE	.....
REVISIONS	.....
BY	.....

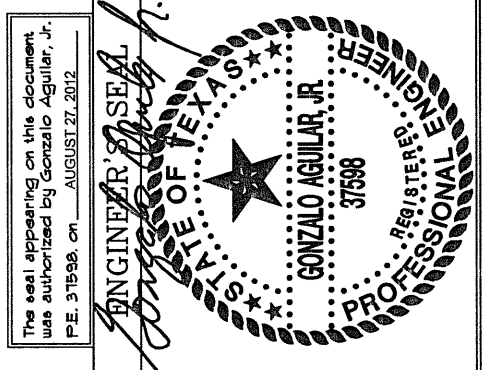
**PROJECT NAME**  
**TIERRA DEL ESTE**  
**UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.180± ACRES

**SCALE**  
 HORIZ: 1" = 30'  
 VERT: 1" = 30'  
 DATE: MAR. 19, 2012  
 DESIGN BY: G.A.  
 INITIATED BY: G.A.  
 CHECKED BY: G.A.  
 JOB NO.: 1110-18

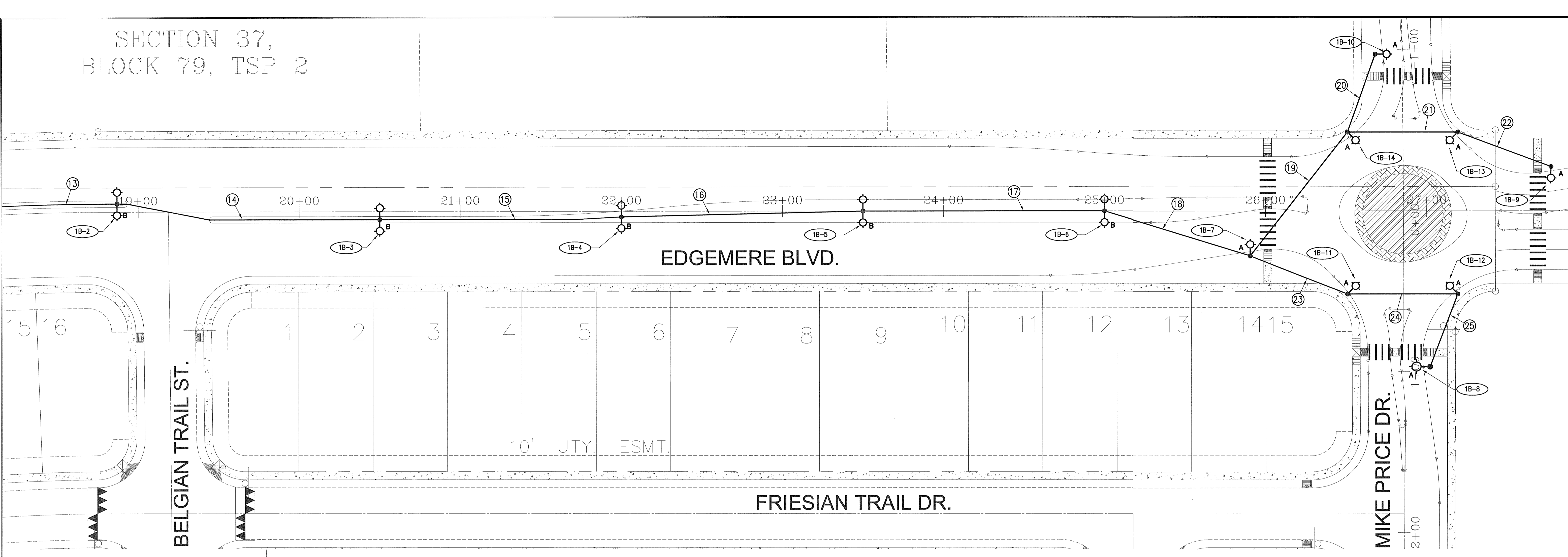
**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**CONDE INC.**  
 REGISTRATION No. F-2321  
 SHEET TITLE

**EDGEMERE BLVD.**  
**ILLUMINATION**  
**PLAN**  
 START STA 0+00  
 STA 18+00  
**E-1**  
 SHT 1 OF 8



SECTION 37,  
BLOCK 79, TSP 2



**ILLUMINATION PLAN**  
SCALE: 1" = 30'

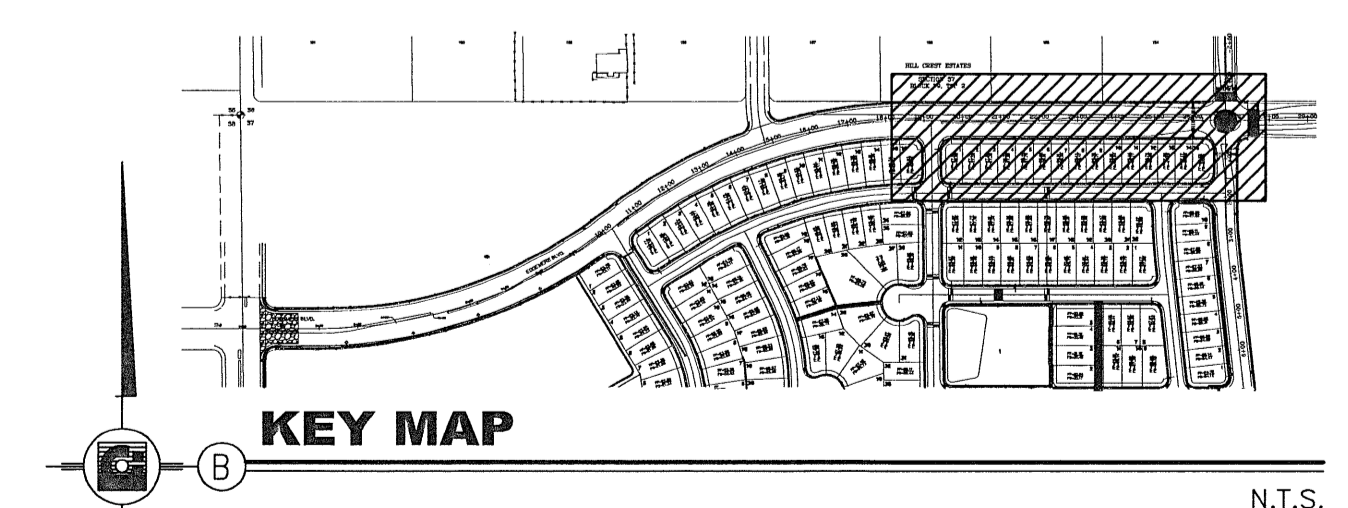
① = TXDOT TY A(240/480) 100(NS) SS(E) GC(O); SEE SHEET ED(4)-03; NO METER, NO SAFETY SWITCH, 2 EACH 30A-2P BRANCH BREAKERS, 100A-2P MAIN BREAKER

EDGEMERE BLVD. SERVICE SOURCE ①			
LIGHT NO.	STATION	BASELINE	OFFSET
1A-1	1+00	EDGEMERE BLVD.	RT
1A-2	2+50	EDGEMERE BLVD.	RT
1A-3	4+00	EDGEMERE BLVD.	LT
1A-4	5+50	EDGEMERE BLVD.	RT
1A-5	7+00	EDGEMERE BLVD.	RT
1A-6	8+50	EDGEMERE BLVD.	RT
1A-7	9+85	EDGEMERE BLVD.	LT
1A-8	11+50	EDGEMERE BLVD.	RT
1A-9	13+00	EDGEMERE BLVD.	RT
1A-10	14+50	EDGEMERE BLVD.	-
1A-11	16+00	EDGEMERE BLVD.	LT

EDGEMERE BLVD. SERVICE SOURCE ①			
LIGHT NO.	STATION	BASELINE	OFFSET
1B-1	17+50	EDGEMERE BLVD.	LT
1B-2	18+86	EDGEMERE BLVD.	LT
1B-3	20+50	EDGEMERE BLVD.	RT
1B-4	22+00	EDGEMERE BLVD.	RT
1B-5	23+50	EDGEMERE BLVD.	-
1B-6	25+00	EDGEMERE BLVD.	-
1B-7	25+90	EDGEMERE BLVD.	RT
1B-8	0+97	MIKE PRICE DR.	LT
1B-9	27+88	EDGEMERE BLVD.	LT
1B-10	-0+97	MIKE PRICE DR.	LT
1B-11	26+50	EDGEMERE BLVD.	RT
1B-12	27+33	EDGEMERE BLVD.	RT
1B-13	27+33	EDGEMERE BLVD.	LT
1B-14	26+50	EDGEMERE BLVD.	LT

CONDUIT/CABLE SCHEDULE--SERVICE NO. ①				
RUN NO.	(PVC) (SCHD 40) (2 INCH)		CONDUCTORS QUANTITY & LENGTH	ESTIMATED LENGTH OF RUN (LINEAR FT.)
	TRENCH	BORE		
1	150	-	2 @ 150	150
2	150	-	2 @ 150	150
3	150	-	2 @ 150	150
4	150	-	2 @ 150	150
5	150	-	2 @ 150	150
6	135	-	2 @ 135	135
7	165	-	2 @ 165	165
8	150	-	2 @ 150	150
9	150	-	2 @ 150	150
10	150	-	2 @ 150	150
11	70	-	2 @ 70	70
12	80	-	2 @ 80	80
13	136	-	2 @ 136	136

CONDUIT/CABLE SCHEDULE--SERVICE NO. ①				
RUN NO.	(PVC) (SCHD 40) (2 INCH)		CONDUCTORS QUANTITY & LENGTH	ESTIMATED LENGTH OF RUN (LINEAR FT.)
	TRENCH	BORE		
14	164	-	2 @ 164	164
15	150	-	2 @ 150	150
16	150	-	2 @ 150	150
17	150	-	2 @ 150	150
18	95	-	2 @ 95	95
19	100	-	2 @ 100	100
20	52	-	2 @ 52	52
21	70	-	2 @ 70	70
22	60	-	2 @ 60	60
23	65	-	2 @ 65	65
24	70	-	2 @ 70	70
25	50	-	2 @ 50	50
26	45	-	4 @ 45	45
27	20	-	4 @ 20	20



**KEYED NOTES: THIS SHEET ONLY**

① HEIGHT OF GRANITE CONCRETE SERVICE SUPPORT POLE SHALL BE COORDINATED WITH EL PASO ELECTRIC TO PROVIDE THE REQUIRED CLEARANCES AND DISTANCES PER DSO1870. VERIFY PRIOR TO PURCHASE AND CUTTING OF SERVICE SUPPORT POLE.

REFER TO SHEETS 7 OF 8 AND 8 OF 8 FOR GENERAL ELECTRIC NOTES, ELECTRICAL LEGEND, LIGHT STANDARD ASSEMBLY SCHEDULE AND TYPICAL TRENCH DETAIL.

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE	REVISIONS	BY

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.180± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 30'

DATE: MAR. 19, 2012  
DESIGN BY: G.A.  
INITIATED BY: G.A.  
CHECKED BY: G.A.  
JOB NO.: 1110-1B

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GFS  
6080 SURETY DR. STE. 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

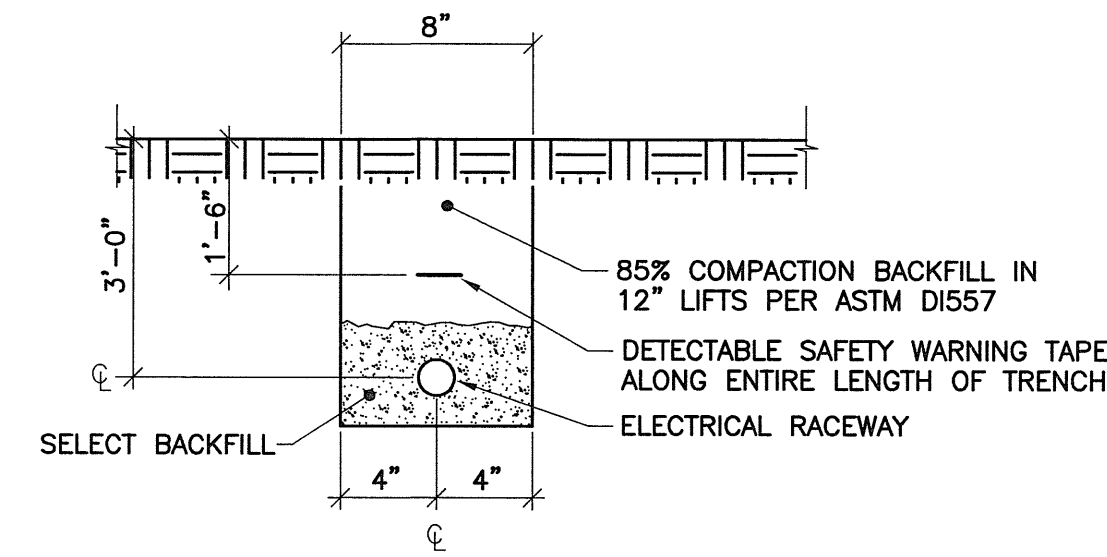
REGISTRATION No. F-2321

SHEET TITLE  
**EDGEMERE BLVD. ILLUMINATION PLAN**  
STA 18+00  
END STA 28+00  
**E-2**

TIERRA DEL ESTE UNIT SIXTY SEVEN **SHT 2 OF 8**



LIGHT STANDARD ASSEMBLY SCHEDULE					
TYPE	SYMBOL	LAMPS	STEEL POLE		LUMINAIRE
			MNTG. HGT.	DESCRIPTION	QTY.
A		1-250W HPS	30'	FLUTED STEEL POLE, TRANSFORMER BASE, MOSS GREEN FINISH, BREAK AWAY FUSES (2) [1][2]	1 TXDOT APPROVED ROADWAY LUMINAIRE, DARK SKY COMPLIANT, 480 VOLTS, WITH LEVELING BUBBLE.
B		2-250W HPS	30'	FLUTED STEEL POLE, TRANSFORMER BASE, MOSS GREEN FINISH, BREAK AWAY FUSES (4) [1][2]	2 TXDOT APPROVED ROADWAY LUMINAIRE, DARK SKY COMPLIANT, 480 VOLTS, WITH LEVELING BUBBLE.



TYPICAL TRENCH DETAIL

N.T.S.

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	NEW LIGHT STANDARD ASSEMBLY AS SCHEDULED ON NEW CONCRETE BASE
	DENOTES NEW LIGHT STANDARD ASSEMBLY NUMBER. SEE SERVICE SOURCE TABLES.
	DENOTES NEW CONDUIT/CABLE RUN. SEE CONDUIT/CABLE SCHEDULES
	DENOTES NEW ELECTRICAL SERVICE POINT NUMBER
	DENOTES KEYED NOTE
	NEW UNDERGROUND ELECTRICAL (TRENCHED)
	NEW UNDERGROUND ELECTRICAL (BORED)
	NEW GROUND BOX PER CITY OF EL PASO STREETS DEPARTMENT STANDARDS (TXDOT TYPE "A") LABELED "ILLUMINATION"

**KEYED NOTES:** THIS SHEET ONLY

- 1 PROVIDE 8' ARM WITH DECORATIVE ARM SUPPORT WITH MOSS GREEN FINISH TO MATCH ARMS AND SUPPORTS USED ON LEE TREVINO. COORDINATE AND VERIFY WITH CITY OF EL PASO STREETS DEPT. PRIOR TO SUBMITTING SHOP DRAWINGS AND PRIOR TO PURCHASE.
- 2 POLES, ANCHOR BOLTS AND ANCHOR BOLT CIRCLES SHALL MATCH THE GREEN FLUTED STEEL POLES USED ON LEE TREVINO. COORDINATE AND VERIFY WITH CITY OF EL PASO STREETS DEPT. PRIOR TO SUBMITTING SHOP DRAWINGS AND PRIOR TO PURCHASE.

**GENERAL ELECTRICAL NOTES:** APPLICABLE TO ALL ELECTRICAL SHEETS

1. CONTRACTOR SHALL COORDINATE THE EXACT LOCATIONS OF ELECTRICAL SERVICE WITH E.P.E.Co. SERVICE SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST VERSION OF THE E.P.E.Co. ELECTRICAL SERVICE REQUIREMENTS BOOK. ANY EQUIPMENT THAT IS STATED IN THE E.P.E.Co. REQUIREMENTS TO BE PROVIDED AND INSTALLED BY THE OWNER, SHALL BE PROVIDED AND INSTALLED BY THIS CONTRACTOR UNDER THIS CONTRACT.
2. CITY STANDARDS:  
ALL WORK, MATERIALS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE CITY OF EL PASO, TEXAS CITY STANDARDS SPECIFICATIONS; STREETS DEPARTMENT, STREET ILLUMINATION.
3. ALL TRENCHING AND CONDUIT SHALL BE INSTALLED WITHIN CITY OF EL PASO RIGHT-OF-WAYS. TRENCHING AND CONDUIT SHALL NOT BE INSTALLED WITHIN PRIVATE PROPERTY. MINIMUM BURIAL DEPTH OF CONDUITS SHALL BE 24" FROM TOP OF FINISHED GRADE OR FINISHED SURFACE TO TOP OF CONDUITS.
4. USE SONOTUBE FOR FORMING POLE CONCRETE BASES. SONOTUBE SHALL BE LEFT IN PLACE. USE 2 SACK CEMENT TO BACKFILL HOLES. TOP OF BASES SHALL BE 4" ABOVE FINAL FINISHED GRADE.
5. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL. PROVIDE TRANSITION ELBOW FROM PVC TO RIGID STEEL BELOW GRADE. WRAP STEEL CONDUIT IN CONTACT WITH EARTH TO PREVENT CORROSION.
6. ALL GROUND RODS SHALL BE 5/8"x10'-0" COPPER CLAD.
7. SPLICES SHALL ONLY BE ALLOWED IN GROUND BOXES OR HAND HOLES.

PROJECT NAME

**TIERRA DEL ESTE  
UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2,  
TEXAS AND PACIFIC RAILWAY Co. SURVEYS,  
CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 166.180± ACRES

S C A L E

HORIZ: N/A  
VERT: N/A

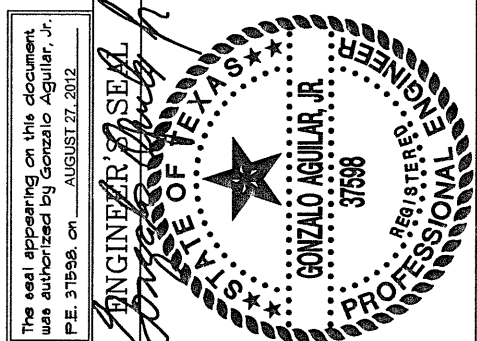
DATE: MAR. 19, 2012

DESIGN BY: G.A.

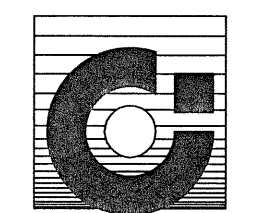
INITIATED BY: G.A.

CHECKED BY: G.A.

JOB NO.: 1110-1B



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6060 SURETY DR. STE. 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

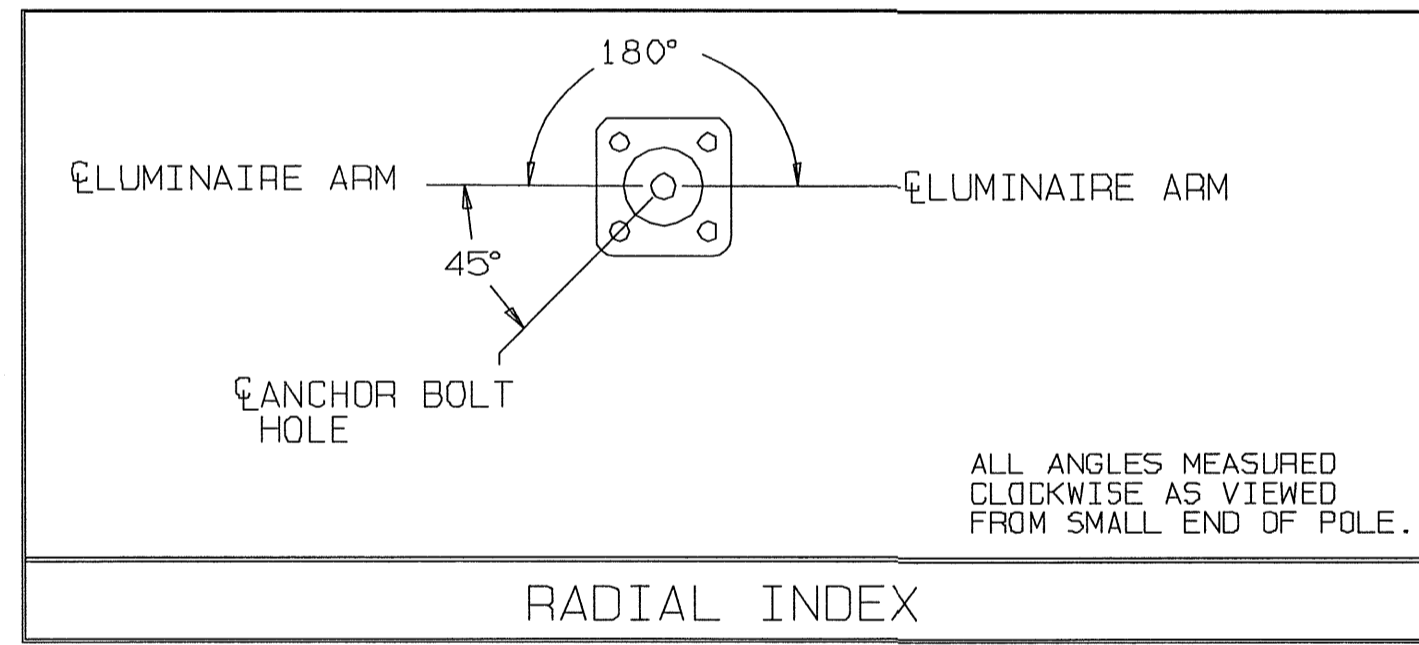
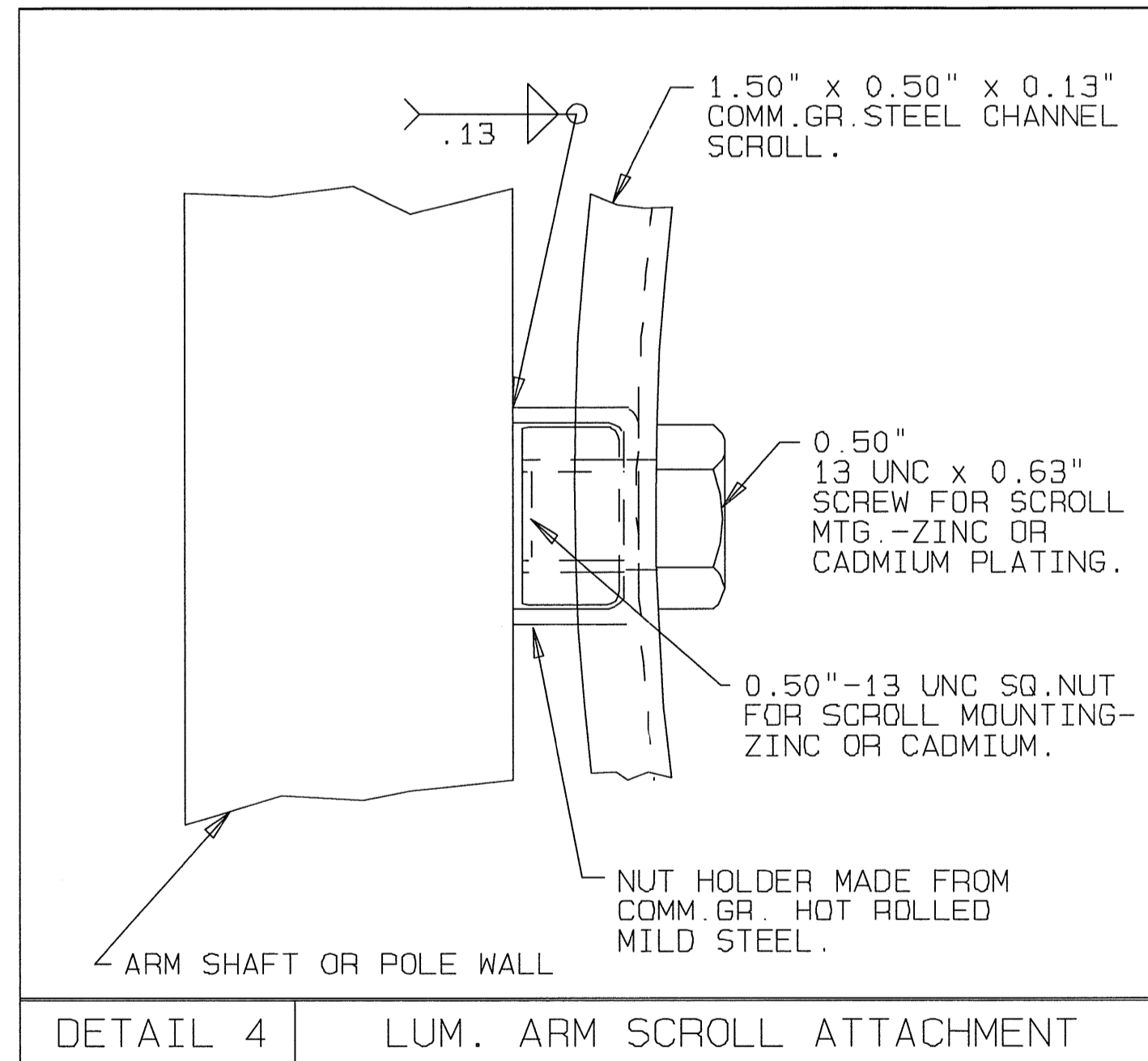
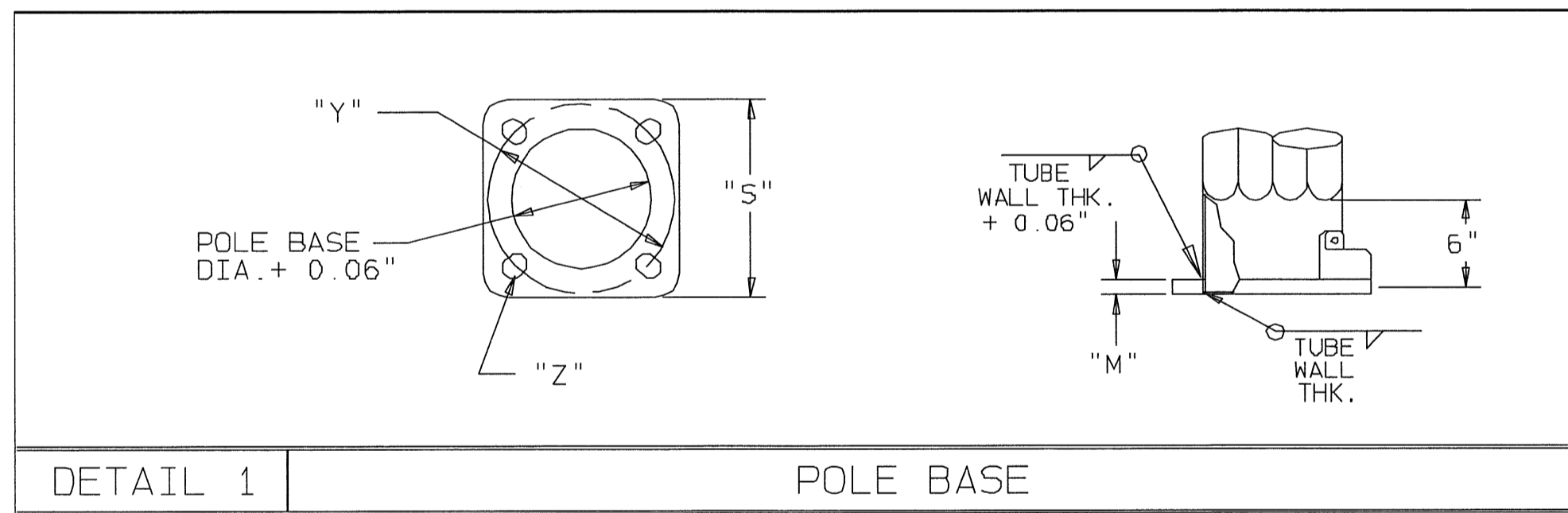
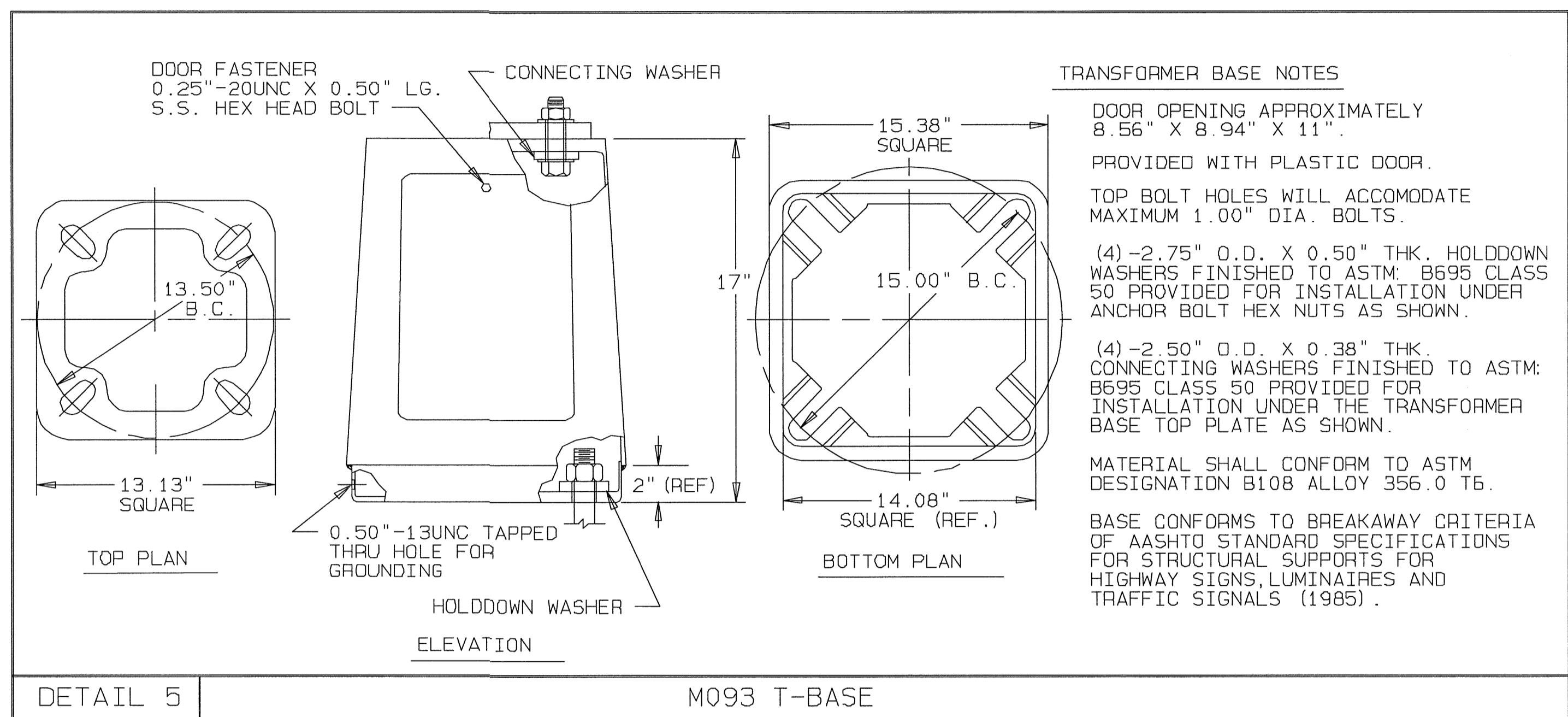
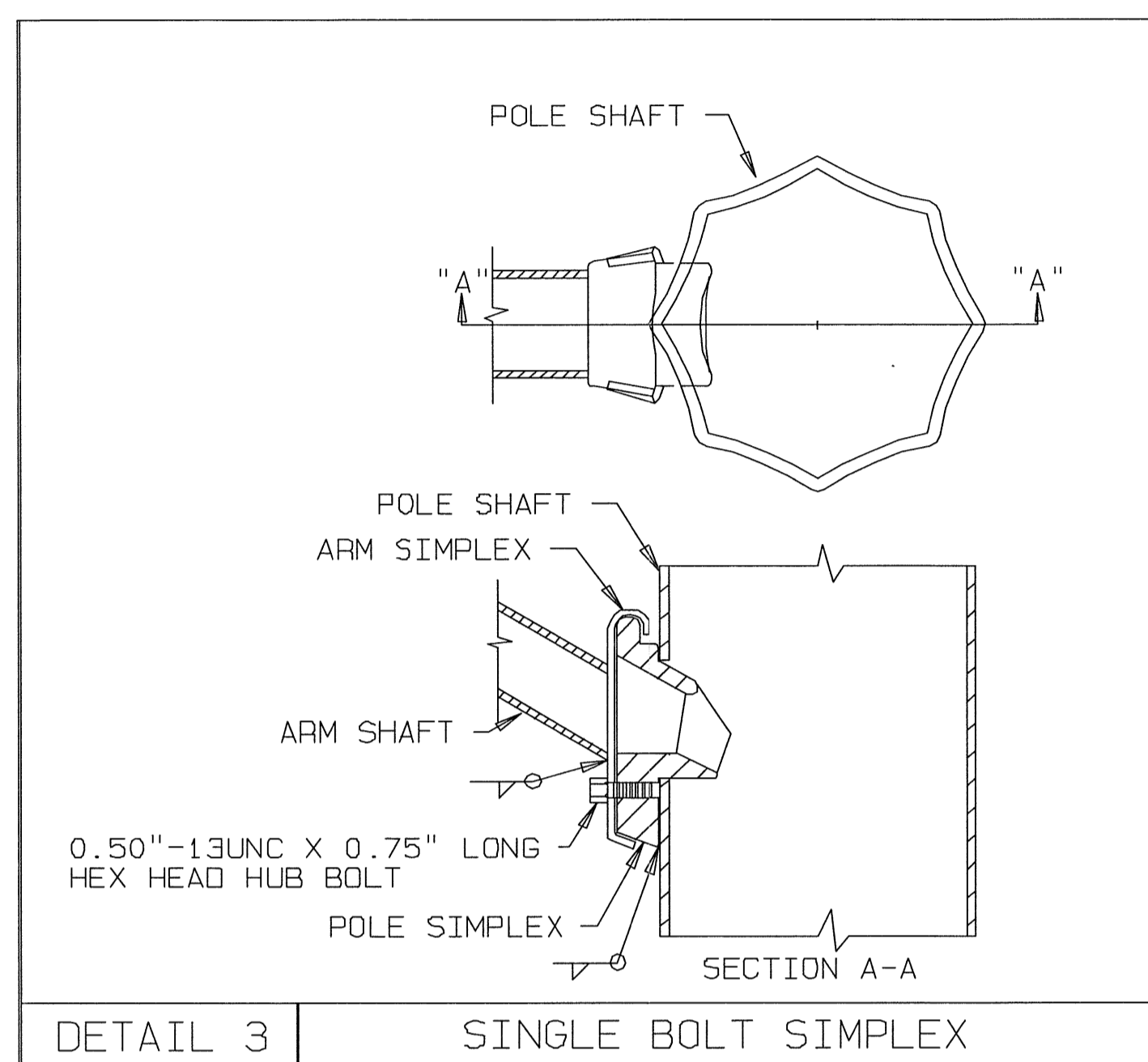
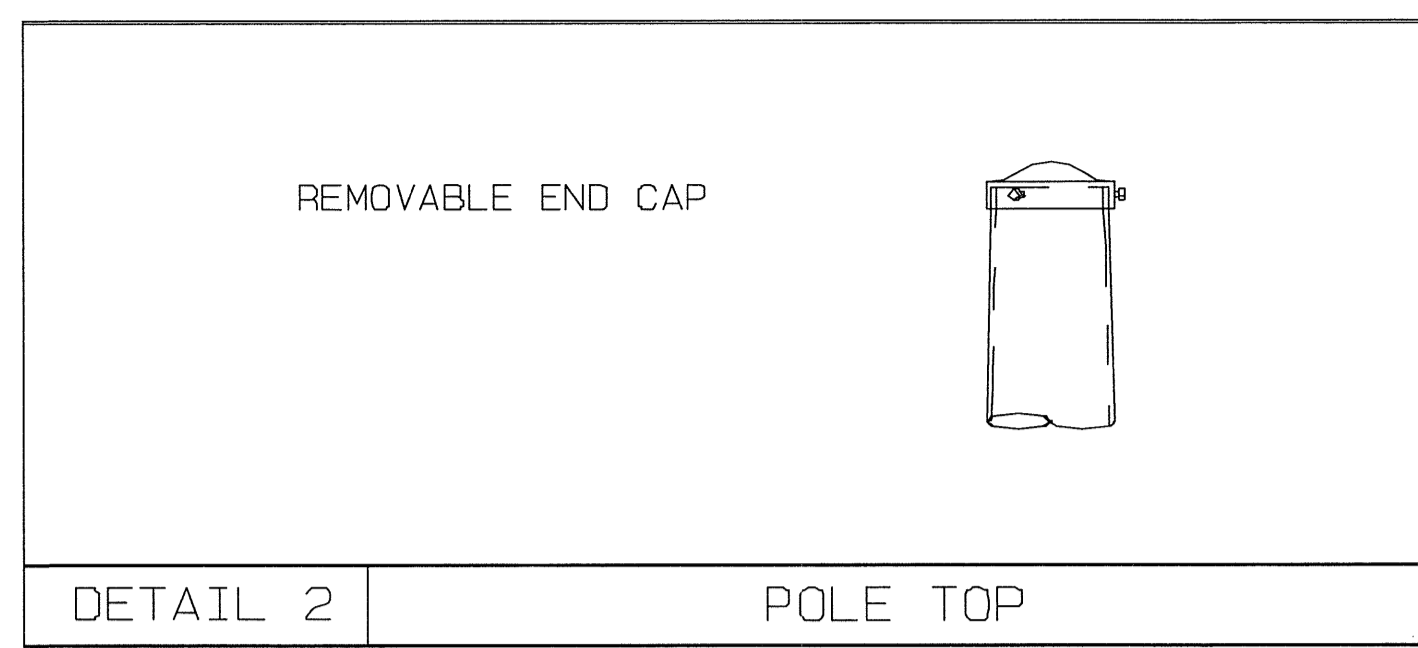
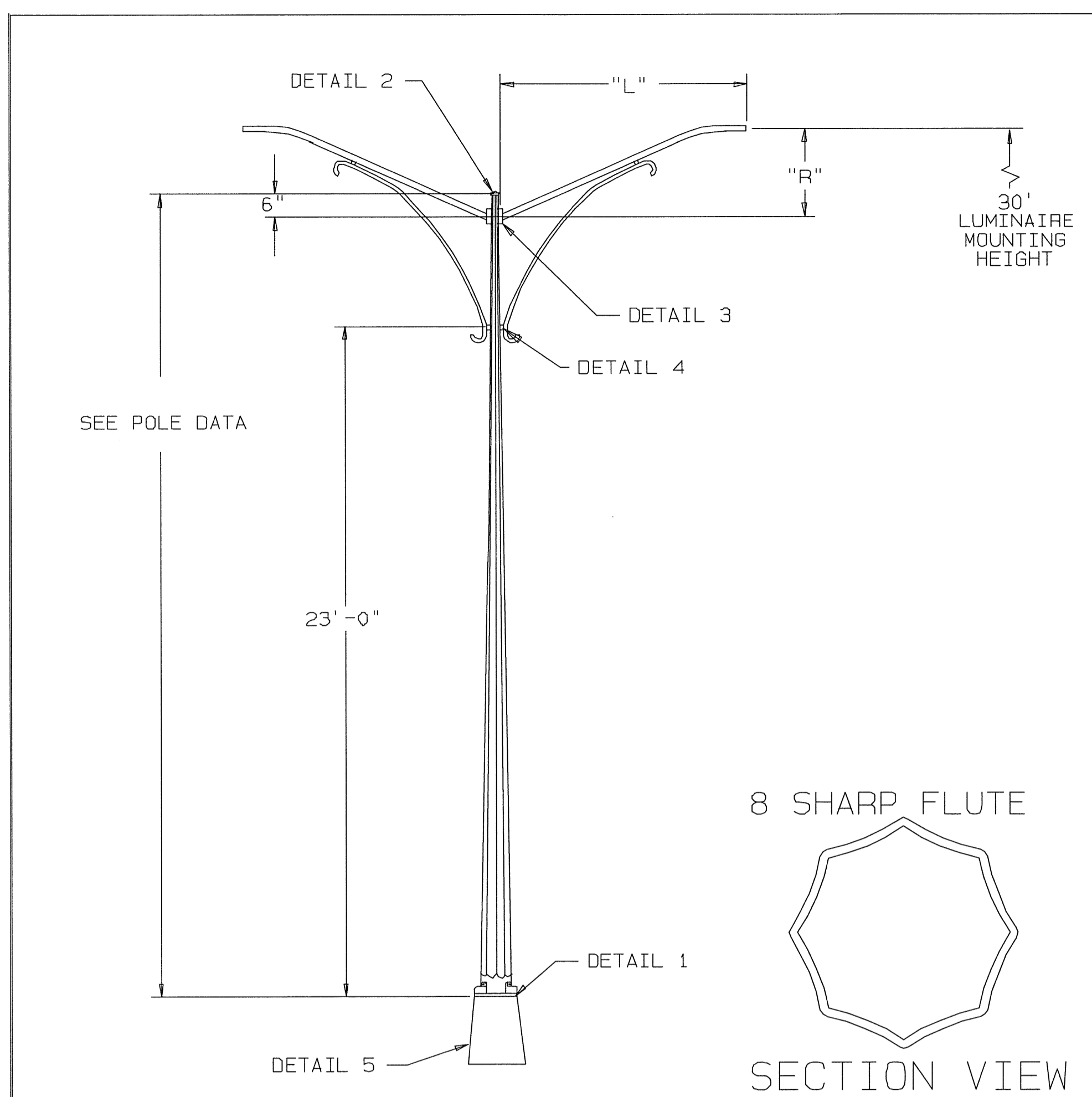


CONDE INC.  
REGISTRATION No. F-2321

SHEET TITLE

**LIGHT STANDARD  
ASSEMBLY,  
LEGEND &  
DETAIL**

**E-7**



- NOTES:**
1. DETAILS ARE TYPICAL FOR TYPE "B" LIGHT STANDARD ASSEMBLIES.
  2. DETAILS ARE TYPICAL FOR TYPE "A" LIGHT STANDARD ASSEMBLIES, EXCEPT PROVIDE A SINGLE ARM IN LIEU OF DOUBLE ARM.

MATERIAL DATA					
COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)	COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE SHAFT	A595 GR. A	55	GALVANIZING	A153	
ARM PIPE		36	SIMPLEX ATTACHMENT	A27 65-35	
POLE BASE	A36	36			

FINISH: VALMONT SPECIFICATION F283BQ  
 BASE COAT: HOT-DIP GALVANIZE TO ASTM: A123  
 FINISH: TGIC OR URETHANE POLYESTER POWDER  
 COLOR: MOSS GREEN

POLE AND SIGNAL ARM DATA																	
ITEM	QTY.	POLE TUBE				POLE BASE				ANCHOR BOLT				LUMINAIRE ARM TUBE			
		BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	GAUGE OR THICK (IN)	SQUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE "Z" (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)	THREAD LENGTH "U" (IN)	PIPE O.D. (IN)	WALL THK. (IN)	RISE HEIGHT (FT) "R"	SPAN (FT) "L"
		7.50	3.79	26.50	11	13.00	13.00	1.25	1.25	1.00	SEE TX DOT SHEETS			2.38	0.154	2.50	8.00

REV	DATE	REVISION	valmont	
A	11/14/02	CHG. BOLT CIRCLE FROM 13.5	Valley, NE 68064 (402) 399-2201	
JOB NAME: EL PASO ELECTRIC			VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS ENGINEER APPROVED MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.	
AGENT: CLARK POWER PRODUCTS			ORDER NO.:	
DATE: 10/22/02	DRWN: MLR4	RCV 10/28/02	SHEET 8 OF 8	REV. A
DRAWING NO. DB00638				

The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for damages resulting from its use.

DISCLAIMER:

DATE: FILE:

## I. GENERAL REQUIREMENTS FOR ALL ELECTRICAL WORK

The location of all conductors, conduits, junction boxes, ground boxes, and electrical services is diagrammatic only and may be shifted by the Engineer to accommodate local conditions.

Materials shall be new and unused. Materials and installation shall comply with the applicable provisions of the National Electrical Code (NEC), National Electrical Manufacturers Association (NEMA) standards, and shall be Underwriters Laboratories (UL) Listed unless otherwise shown on the plans or specifications or approved by the Engineer in writing. Faulty fabrication or poor workmanship in any material, equipment, or installation shall be justification for rejection. When reference is made to UL, it can be considered to mean a Nationally Recognized Independent Testing Lab (NRTL). Comparable standards of Canadian Standard Association, Electrical Testing Laboratories or Factory Mutual can be equal to the referenced UL standard. Where reference is made to NEMA listed devices, IEC listed devices shall not be considered to be an acceptable equal to a NEMA listed device. Acceptable devices may have both a NEMA and IEC listing.

With the exception of high strength bolts, miscellaneous nuts, bolts and hardware may be stainless steel when plans specify galvanized, provided that bolts are 1/2 inch or less in diameter. The Contractor shall provide the following electrical test instruments as required by the Engineer to confirm compliance with the contract and the NEC. Those test instruments are voltmeter, amp probe, megger (1000 volt DC) and torque wrenches. All meters shall have been properly calibrated within one year. Calibration certification shall be provided to the Engineer upon request. Calibration certification tag shall also be applied to the meter. The Contractor shall operate meters during inspection as requested by the Engineer. Grounding shall be as shown on the plans and in accordance with the NEC. Metallic conduit, light poles, luminaires on bridge structures, and all metal enclosures shall be bonded to the system-grounding conductor. The ground rod in each ground box or junction box at the bridge ends, and in each ground box installed for underpass lighting will also be bonded to the system grounding conductor. The grounding conductor shall be bare or, if insulated, shall be green. Ground rods, connectors, and bonding jumpers will not be paid for separately, but will be subsidiary to the various bid items.

### SUBMITTALS:

The contractor shall submit for approval six (6) copies of catalog cut sheets for each of the following three (3) categories.

- Category 1. Electrical services including photocell.
- Category 2. Breakaway disconnects, heat shrink tubing, heat shrink filler tape, GelCaps and ground boxes which will include loading capacity certification.
- Category 3. Highmast assembly kits, when applicable. See Item 614 "Highmast Illumination Assemblies". Submittals shall be legible and shall be marked to indicate which product on a cut sheet is to be supplied. Where manufacturers provide warranties and guarantees as a customary trade practice, the Contractor shall furnish to the State such warranties and guarantees. Any deviation from plans or specifications, including deviations due to plan error shall be prominently displayed on the submittal. Any changes not prominently noted in submittal and incorporated into the work without proper authorization will constitute grounds for rejection of that portion of the work.

## II. CONDUIT

### A. MATERIALS

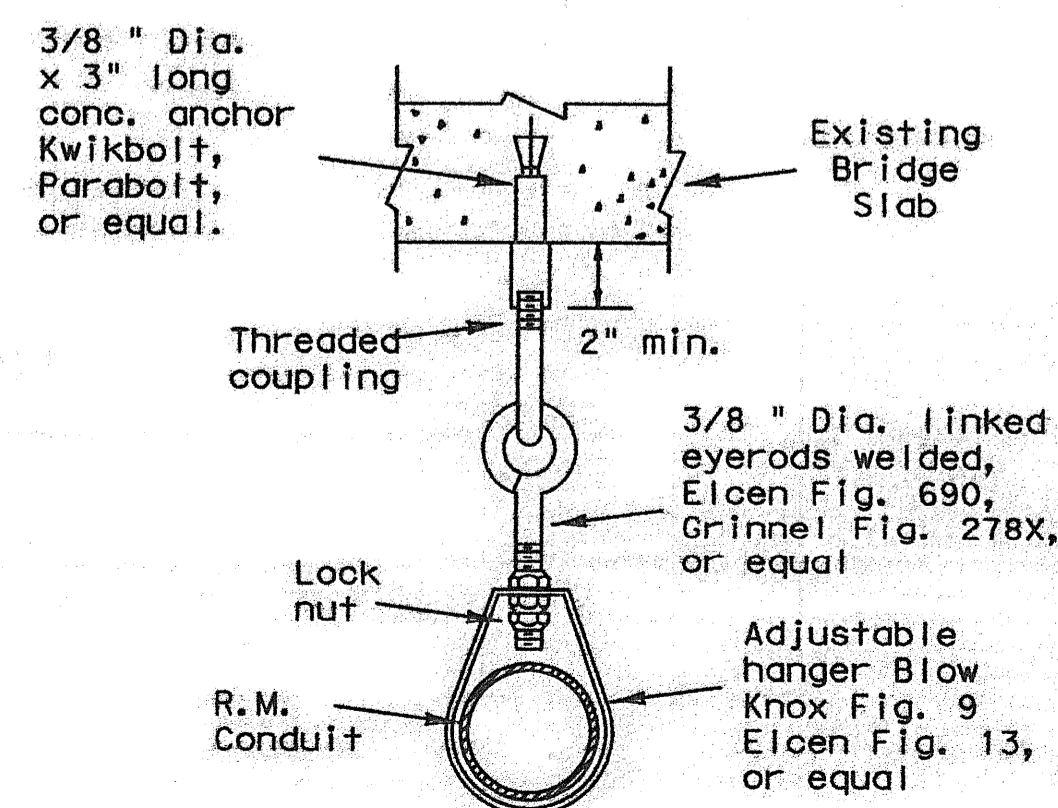
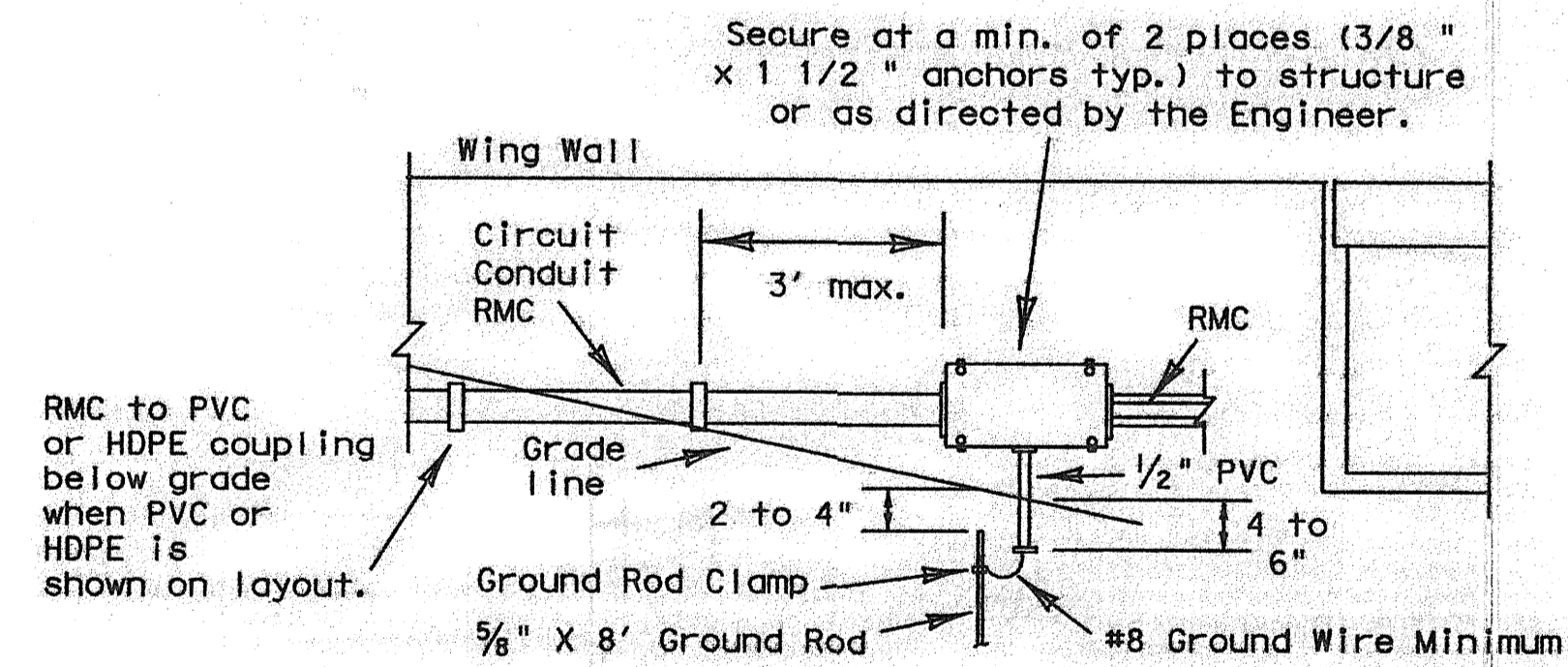
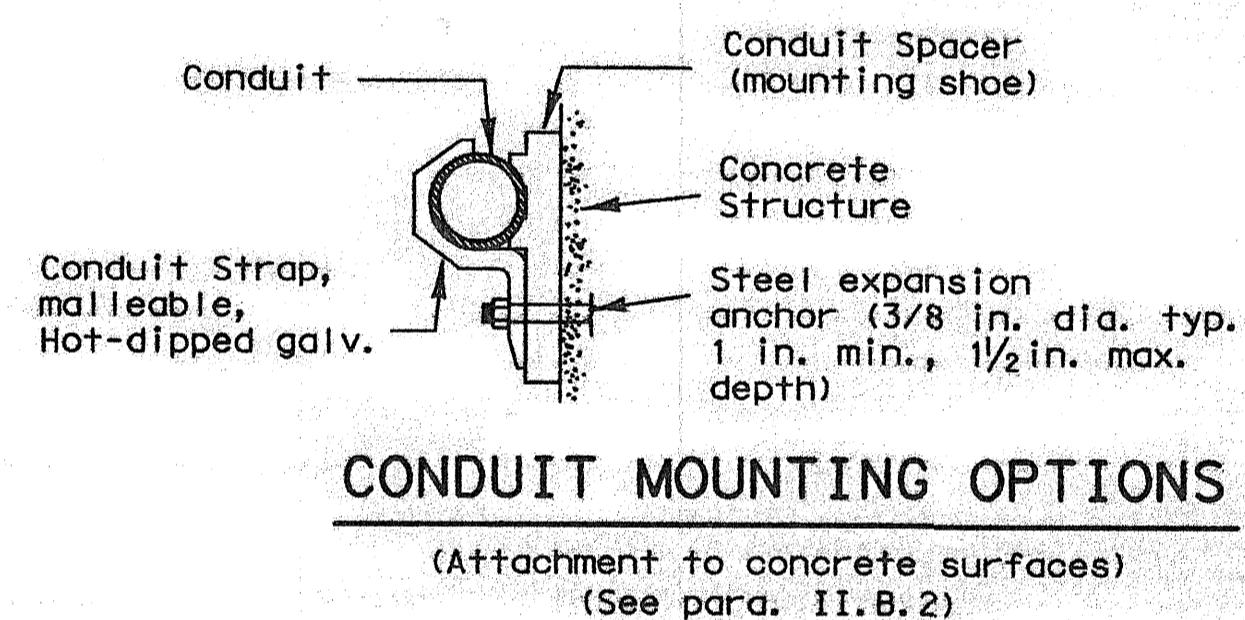
1. Conduit and fittings shall be UL Listed for the intended use shown on plan sheets.
2. Conduit shall be the type shown by descriptive code or shown elsewhere on the plans. Substitution of the various types of conduits will not be permitted. All flexible conduit in rigid metallic conduit (RMC) systems shall be Liquidtight Flexible Metal (LFMC) conduit. All flexible conduit in PVC systems shall be Liquidtight Flexible Non-metallic conduit (LFNC).
3. All exposed conduits shall be RMC, unless otherwise specifically shown on the plans. All metal conduit shall be properly grounded.
4. Couplings, connectors, conduit bodies, grounding bushings, and offset nipples for RMC shall be electro-zinc plated steel or hot dipped galvanized malleable iron, threaded or threadless compression type, rain-tight and shall be UL listed for the intended use.
5. Expansion joints for metal conduit shall be provided with an internal or external bonding jumper and shall be UL listed.
6. Unless otherwise shown on the plans, junction box minimum sizes shall be in accordance with the following table which applies to the greatest number of conductors entering the box through one conduit with no more than four conduits per box. When a mixture of conductor sizes are present, the conductors shall be counted as if all are of the larger size. Situations not applicable to the table shall be sized in accordance with NEC 370-28.

AWG	3 CONDUCTORS	5 CONDUCTORS	7 CONDUCTORS
#1	10" x 10" x 4"	12" x 12" x 4"	16" x 16" x 4"
#2	8" x 8" x 4"	10" x 10" x 4"	12" x 12" x 4"
#4	8" x 8" x 4"	10" x 10" x 4"	10" x 10" x 4"
#6	8" x 8" x 4"	8" x 8" x 4"	10" x 10" x 4"
#8	8" x 8" x 4"	8" x 8" x 4"	8" x 8" x 4"

7. RMC system junction boxes equal to or smaller, in any dimension, than 12 x 12 x 6 (HxWxD), surface mounted and containing conductors #8 or larger, shall be hot dipped galvanized cast iron with minimum wall thickness of 3/16 inch, shall have external mounting lugs, and shall be UL listed Crouse-Hinds Type WAB, OZ/Gedney Type YS or approved equal. Unless otherwise shown elsewhere on the plans, RMC system junction boxes larger than the aforementioned boxes but equal to or smaller, in any dimension, than 18 x 18 x 6 (HxWxD) shall be 14-ga. stainless steel; RMC system junction boxes larger than 18 x 18 x 6 (HxWxD) shall be 12-ga. stainless steel. All metal junction boxes shall be equipped with a threaded hole or lug for grounding. Stainless steel boxes 12 x 12 x 6 and larger need not be UL Listed but shall meet the other requirements of the NEC and shall have ribs, stiffeners, or thicker metal and shall have external mounting feet. Junction boxes with an internal volume of more than 100 cu. in. may be supported by connection of two or more rigid metal conduits, where specifically shown on the plans or where approved by the Engineer.
8. Junction boxes containing only #10 or #12 AWG conductors shall be Crouse Hinds Type GRFX, Appleton Type JBOX, two-gang FD, or similar approved cast iron box. Boxes shall be sized according to NEC Table 370-16(a).
9. IMC and EMT conduit shall not be used unless specifically required by the plan layout sheets. Junction boxes in EMT conduit systems shall be made from galvanized sheeting and shall be UL listed and approved for outdoor use, unless otherwise noted on the plans. Sheet metal junction boxes shall be sized in accordance with the NEC. Junction boxes for IMC conduit systems shall meet the requirements of boxes used with RMC systems.
10. Junction boxes in PVC conduit systems shall be PVC, intended for outdoor use, unless otherwise noted on the plans.
11. Elbows in PVC conduit systems one inch and larger shall be rigid metal, with the exception of traffic signal systems which may have PVC elbows instead of rigid. If any part of the rigid metal elbow is buried less than 18 inches underground the elbow and rigid metal extension shall be grounded. Grounding shall be accomplished by means of a grounding bushing installed on the extension. Unless specifically shown on the plans, rigid metal elbows containing, or entering ground boxes containing only communications conductors, loop detectors, or other low voltage power limited circuits need not be grounded unless a ground wire is present in the conduit or ground box. The rigid metal elbows located in concrete foundations may be extended with PVC conduit and need not be grounded provided that the end of the elbow nearest the end of the conduit run exiting the foundation is at least 2 inches below the concrete. RMC elbows will not be eliminated. RMC elbows will not be paid for directly, but will be subsidiary to various bid items.
12. High-Density Polyethylene (HDPE) conduit shall meet the requirements of Item 622, Duct Cable, except that the HDPE conduit, when bid under Item 618, Conduit, shall not contain factory installed conductors. Fittings for HDPE conduit shall be UL listed as an electrical conduit connector or shall be thermally fused using an electrically heated wound wire resistance welding method. HDPE conduit may be substituted for bored schedule 40 or schedule 80 PVC conduit. When such substitution is made, bored HDPE shall be schedule 40 of the size PVC being replaced. The HDPE conduit shall transition to PVC (or RMC elbow when required) at the bore pit. Size and schedule shall be as shown on the plans. Substituted conduit may not be extended to ground boxes or foundations; RMC elbows shall be installed at ground boxes and foundations. RMC elbows will not be eliminated.
13. All conduit support hardware including straps, nuts, bolts, screws, retaining anchors and washers shall be hot dipped galvanized or stainless steel. Strut type conduit straps shall be stainless steel or hot dipped galvanized. Strut type straps need not be made of malleable type material. Stamped-cadmium plated straps will not be allowed. Straps having only one mounting hole shall not be allowed for use on conduits 2 inches and larger with the exception of electrical service poles where stainless steel standoff straps will be allowed. Two piece conduit straps designed to be used with a mounting shoe shall be installed only with the correctly sized shoe.

## B. CONSTRUCTION METHODS

1. Conduit in structures shall have expansion fittings at structure expansion joints. All straight runs of RMC conduit exposed on structures such as bridges shall have expansion joints installed at maximum intervals of 150 feet. Expansion joints shall be installed so they allow for movement of the conduit. Installation of the joint in such a manner that will not allow for movement shall be repaired at no expense to the state. The method of determining the final setting length of the expansion joint shall be provided to the Engineer upon request.
2. Conduit supports shall be spaced at maximum intervals of 5 feet. Conduit spacers shall be used with metal conduit placed on surfaces of concrete structures (See conduit mounting options).
3. Conduit supports shall not be attached directly to prestressed concrete beams except as shown specifically in the plans and approved by the Engineer.
4. Unless otherwise shown on the plans, conduit placed beneath existing roadways, driveways, or sidewalks, or after the base or surfacing operation has begun, shall be accomplished by jacking or boring. The Contractor shall back fill and compact the bore pits to the bottom of the conduit prior to installing connecting conduit or duct cable to prevent bending of the connection.
5. Conduit trenched in the subgrade of new roadways shall be backfilled with excavated material, unless otherwise noted on the plans. Conduit trenched in the sub-base of new roadways shall be backfilled with cement-stabilized base.
6. Open ends of all conduit and raceways shall be fitted with temporary caps or plugs to prevent entry of dirt, debris and rodents during construction. The temporary cap may be constructed of duct tape, but in all cases shall be tightly fixed to the conduit and shall be durable. The contractor shall clean out the conduit and prove it clear in accordance with Standard Specifications Item 618.3 prior to installing any conductors.
7. Conduit entry into the top of enclosures such as safety switches, meter cans, service enclosures, auxiliary enclosures and junction boxes shall be made weatherproof using conduit sealing hubs, or threaded bosses.
8. A bonding jumper shall be installed from each grounding bushing to the nearest grounding rod, grounding lug, and/or equipment grounding conductor. All jumpers shall be the same size as equipment grounding conductor. Conduit used as casing under roadways for duct cable need not be grounded if duct extends full length through the casing. At electrical services, grounding electrode conductor shall be a solid Copper #6 AWG.
9. Metal junction boxes shall be bonded to the grounding conductor in accordance with the NEC.
10. Conduits entering ground boxes shall be placed so that the conduit ends shall be not less than 3 inches nor more than 6 inches from bottom of box (See ground box detail on sheet ED3).
11. Conduit ends shall be sealed with heat shrink boots with waterproof sealant, urethane foam, or by other methods approved by the Engineer. Sealing shall be done after completion of any required pull tests. Duct tape shall not be used as a permanent conduit sealant. Silicone caulking shall not be used as a sealant.
12. All strut mounting material and hardware shall be hot-dip galvanized or shall be stainless steel. The cut ends of strut and non-galvanized rigid metal conduit threads shall be coated with a zinc rich paint (90% or more zinc content). Zinc rich paint may only be used to touch up galvanized material as allowed under Item 445.6 galvanizing. The painting of non-galvanized material with a zinc rich paint shall not be considered as an approved alternative for galvanized materials.
13. All PVC conduit terminations shall be fitted with bushings or bell ends. All metal conduit terminations shall be fitted with a grounding type bushing.



5/03 Revision  
Revised notes.

- ### NOTES
1. Ground rod clamp to be UL listed for direct burial.
  2. For conduit placed in structure, use flush-mounted box.
  3. Bond junction box and metal conduits to equipment grounding conductor and grounding electrode conductor using listed connector.
  4. Seal all conduits entering the junction box from underground.
  5. Install bell end or bushing on 1/2" PVC conduit both ends.
  6. Ground rod to be driven within 8 inches of 1/2 inch PVC conduit end.

**Texas Department of Transportation**  
 Traffic Operations Division

## ELECTRICAL DETAILS- CONDUIT

### ED(1)-03

© TxDOT January 1992		DATE	BY	CHKD	APP'D
4-98	REVISIONS	DATE	BY	CHKD	APP'D
12-00					
3-03					
5-03					
		DIST	COUNTY	SHEET NO.	

71A

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conveyance of this standard to other formats or for incorrect results or damages resulting from its use.

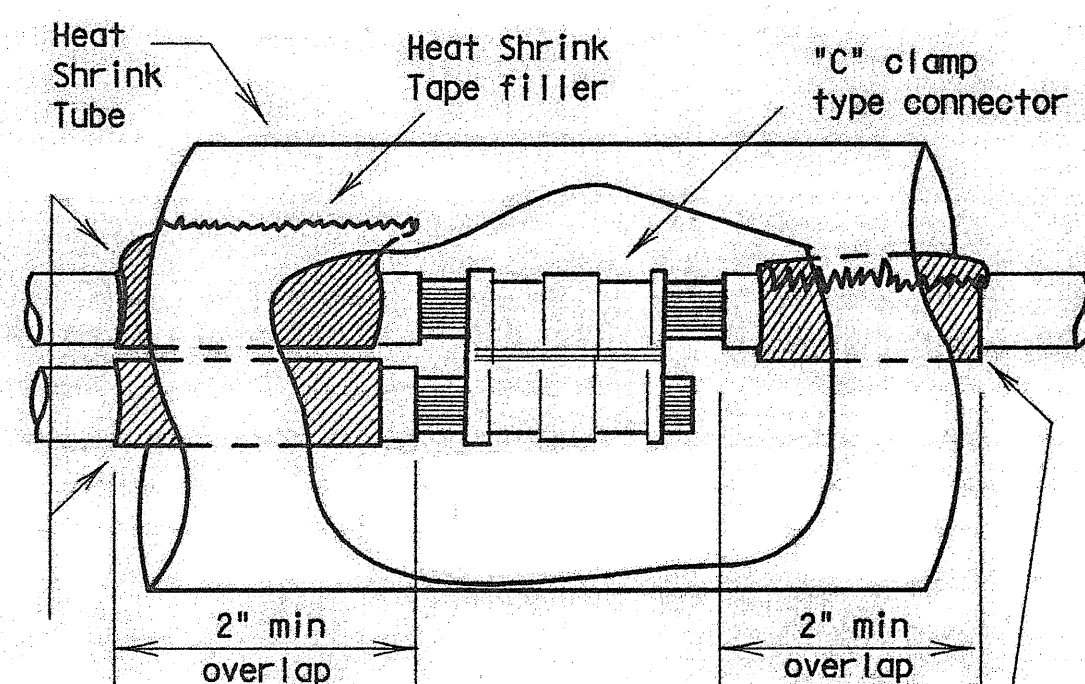
**I. ELECTRICAL CONDUCTORS**

**A. MATERIALS**

- Insulated conductors shall be NEC Type XHHW. Insulated conductors shall be color coded in accordance with the NEC, articles 200, 250, and 310; i.e. insulation of grounded conductors (neutrals) shall be white. Grounding conductors (ground wires) shall be bare or insulation shall be green. Insulation of ungrounded conductors (hots) shall be any color except green, white, or gray. Identification of conductors #6 American Wire Gauge (AWG) and smaller shall be by continuous jacket color. Color coding of electrical conductors #4 AWG and larger shall be either by continuous color jacket or by colored tape. Colored tape marker shall consist of a half-lap of tape covering a 6-inch length of conductor.
- Where two or more circuits are present in one conduit or enclosure, the conductors of each circuit shall be identified by a permanent non-metallic tag at each accessible location. The tag shall be fastened to the conductors by two plastic straps. Each tag shall indicate circuit number, letter, or other identification shown in the plans.
- Grounding electrode conductor #6 AWG for bonding to ground rod at electrical service, shall be solid. Connection of conductor to ground rod shall be made using UL Listed connectors designed for such purposes.
- Heat Shrink Tape filler shall be used to seal the ends of heat shrink tubing around two or more conductors that are insulated with heat shrink tubing. Tape material shall have a minimum dielectric strength of 225 volts per mil and shall be cross-linked butyl rubber. Tape shall be supplied in rolls and shall have a backing (release paper) to prevent the tape from sticking to itself.
- Heat shrink tubing shall be heavy wall, UL listed for 600 volts or greater and shall have factory applied internal sealant.
- GelCaps shall be UL listed for 600-volt applications. GelCap shall have see-through elastomer molded cover. Cover shall be filled with high dielectric insulating gel silicone sealant to provide waterseal. Cover shall be held in place by snap-lock, molded clamp made of UV stable polypropylene.
- Splicing materials, insulating materials, breakaway disconnects, GelCaps and fuse holders will not be paid for directly but shall be subsidiary to various bid items.

**B. CONSTRUCTION METHODS**

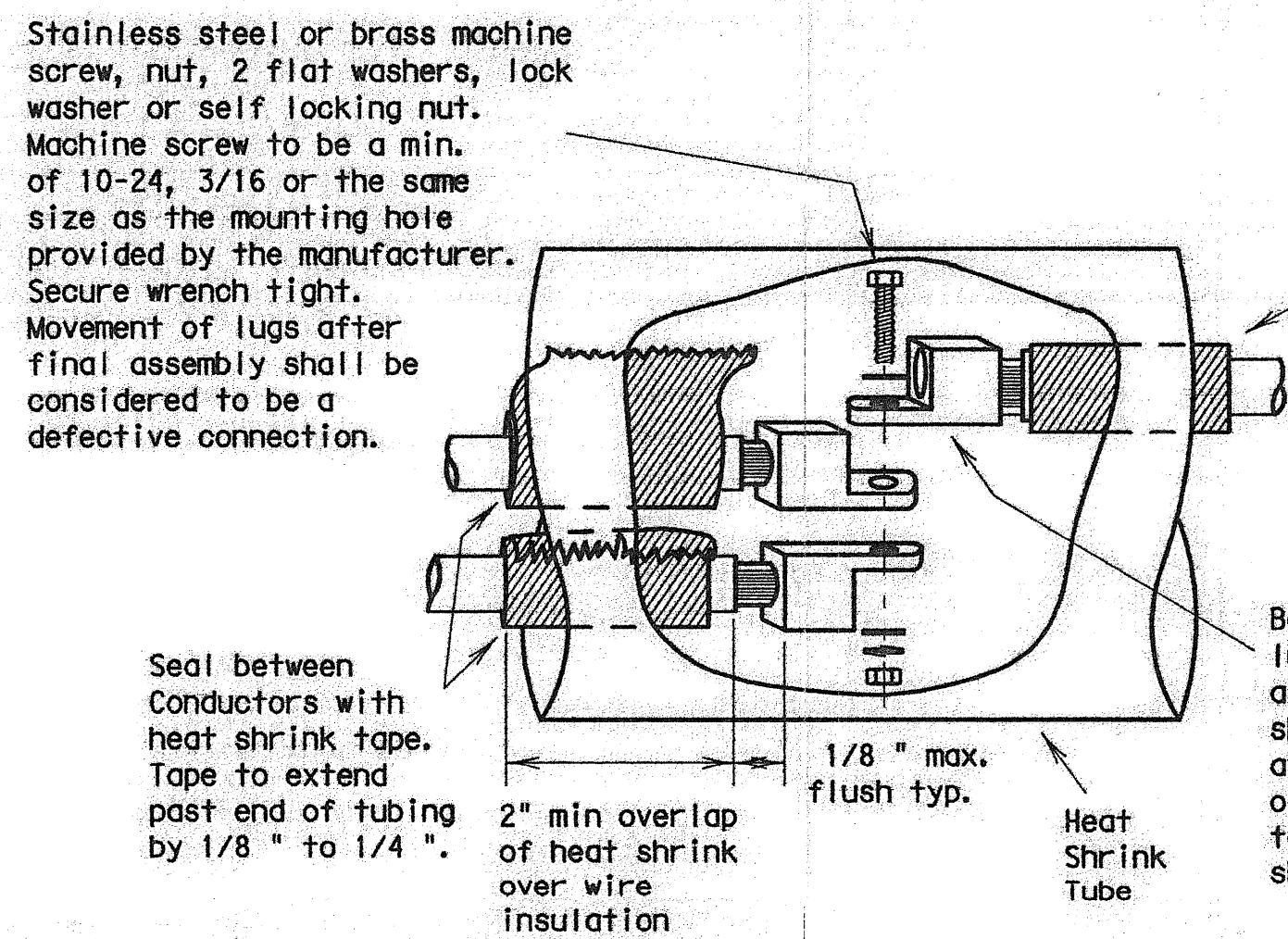
- After conductors have been installed in conduit, a pull test shall be made on conductors. When any length of conductor cannot be freely pulled, the Contractor shall make any needed alterations or repairs at no expense to the State.
- The Contractor shall perform insulation resistance tests in accordance with Item 620, "Electrical Conductors." The Contractor shall coordinate with the Engineer to witness the tests.
- A sufficient length of conductor for making up connections shall be left in ground boxes (2 feet minimum, 3 feet maximum, to point of splice, 3 feet minimum, 4 feet maximum, when conductor is pulled through with no splice), enclosures, weatherheads and pole bases (1 foot minimum, 1.5 feet maximum).
- Splices shall be made only in junction boxes, ground boxes, pole bases, or electrical enclosures and shall be made with listed compression or screw type pressure connectors, terminal blocks, bolted lugs, or split bolt connectors. Splices shall be insulated with heavy wall heat shrink tubing or GelCaps and shall be made so as to provide a watertight splice. Heat shrink sleeve shall overlap conductor insulation a minimum of 2 inches on both sides of the splice. Where heat shrink tubing may not shrink sufficiently to provide a watertight seal around the individual conductors, prior to heating the tubing, the Contractor shall increase the diameter of the conductors insulation using heat shrink filler tape to provide a watertight seal between the individual conductors and the heat shrink tubing. Tape shall be visible after completion of all splices. Where filler tape is used but not visible, the Engineer shall approve each individual splice by conducting a physical inspection of each splice. When it appears the tubing has been burned, or overheated the tubing shall be considered to be defective and shall be replaced.
- GelCaps when used in place of heat shrink method of splicing, shall be sized and installed according to manufacturer's specifications. (Raychem GelCap and GelCap SL or equal.)
- Wire nuts may be used for #8 AWG or smaller conductors in above-ground junction boxes, but not in pole bases or ground boxes. Wire nuts shall be positioned upright to prevent the accumulation of water. Wire nuts used at these locations shall have factory applied waterproof sealant.
- Conductors in illumination poles shall be supported by a J-hook in the top of the pole.
- All conductors bid under Item 620 "Electrical Conductors" shall have breakaway electrical disconnects installed anytime conductors pass through a break-away support device.
- For terminating the conductors, insulation-jacketing material shall be removed in such a manner as to not nick any of the individual strands of the conductor. When individual conductor strands are removed, the conductor shall be considered to be damaged.
- When a conductor or cable has been damaged, or fails to pass an insulation resistance test, the conductor shall be replaced.
- Duct tape, black electrical tape, or wire nuts shall not be used in the repair of a damaged conductor.
- For terminations, no more than one wire may be installed under a single pressure connector, unless the device is listed for more than one wire.
- Conductors connected to break-away in line fuse holders must be installed in accordance with the specific manufacturer's installation instructions. Where threaded connections are made, they shall be properly torqued. Where crimp type connections are made, crimps shall be made using properly sized crimping pliers. Proper conductor terminations are critical to the safe operation of break-away devices.
- Waterproofing boots shall be properly trimmed to fit snugly around the conductor so as to provide a water proof connection. No more than one wire may enter a single opening in any one boot. Water proofing boots must provide the correct number of openings. Where only one wire is to be connected to a boot, the boot may not be a two wire type.



Seal between conductors with heat shrink tape. Tape to extend past end of tubing by 1/8" to 1/4".

Increase insulation diameter with heat shrink tape if necessary. Tape to extend past end of tubing by 1/8" to 1/4".

**SPLICE OPTION 1**  
C-CLAMP



Stainless steel or brass machine screw, nut, 2 flat washers, lock washer or self locking nut. Machine screw to be a min. of 10-24, 3/16 or the same size as the mounting hole provided by the manufacturer. Secure wrench tight. Movement of lugs after final assembly shall be considered to be a defective connection.

Seal between conductors with heat shrink tape. Tape to extend past end of tubing by 1/8" to 1/4".

Increase insulation diameter with heat shrink tape if necessary. Tape to extend past end of tubing by 1/8" to 1/4".

2" min overlap of heat shrink over wire insulation

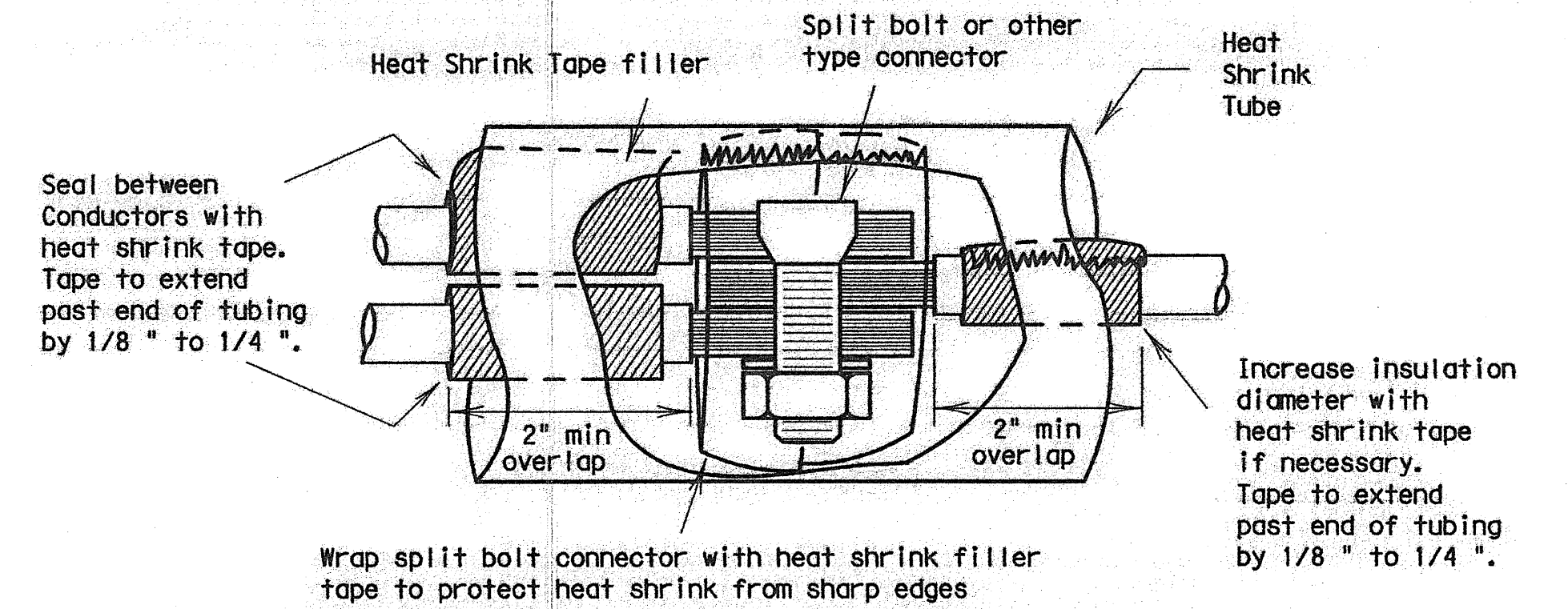
1/8" max. flush typ.

Heat Shrink Tube

Bolt together lugs and prior to applying heat shrink tubing, apply two layers of heat shrink tape to cover sharp edges.

**SPLICE OPTION 2**  
BOLTED WIRE LUGS

**SPLICE OPTION 3**  
SPLIT BOLT



Seal between conductors with heat shrink tape. Tape to extend past end of tubing by 1/8" to 1/4".

2" min overlap

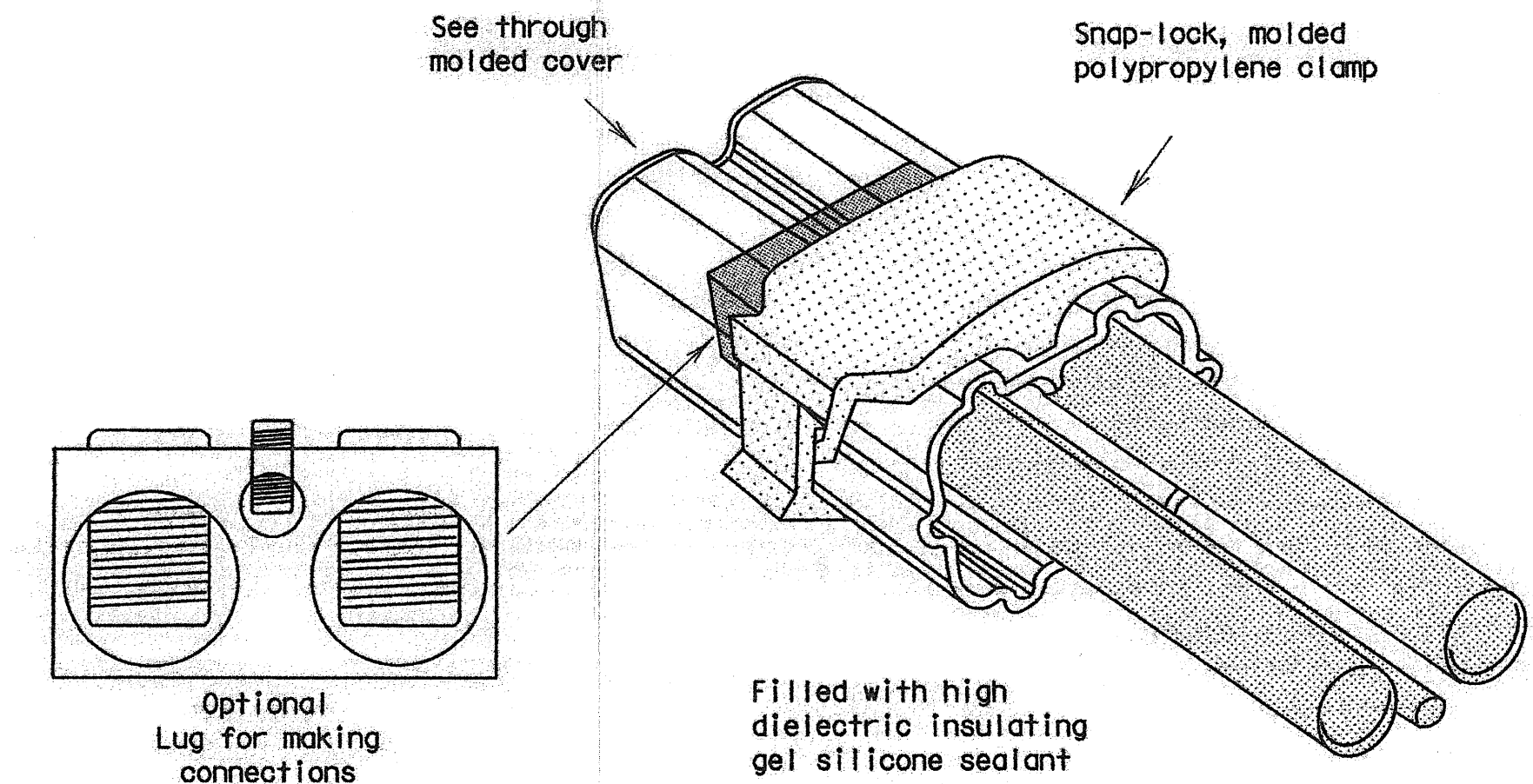
2" min overlap

Wrap split bolt connector with heat shrink filler tape to protect heat shrink from sharp edges

Increase insulation diameter with heat shrink tape if necessary. Tape to extend past end of tubing by 1/8" to 1/4".

**SPLICE OPTION 4**  
GELCAP

GelCap shall be sized and installed according to manufacturer's specifications



See through molded cover

Snap-lock, molded polypropylene clamp

Optional Lug for making connections

Filled with high dielectric insulating gel silicone sealant

- All conduits that contain circuit wiring of 50 volts or more shall contain an equipment grounding conductor (EGC). Conduit for traffic signals shall have an EGC, with a minimum size of #8 AWG stranded. Unless otherwise shown on the plans, the EGC for all other conduits shall be the same AWG size as the largest current carrying conductor contained in that conduit. The EGC shall be paid for item 620-Electrical Conductors.

**C. TEMPORARY WIRING**

- Temporary conductors and electrical equipment to provide power for utilization equipment, shall be installed in accordance with the NEC article 305. All temporary wiring materials and methods shall comply with the standard sheets. All power outlets for portable electrical equipment, power tools, ice machines, ice storage bins and refrigerators located outdoors at grade, supplied from a utility power source, shall be provided with a ground fault circuit interrupter.
- Residual current protective devices (GFCI) may be any one of the following: molded cord and plug set, receptacle, or circuit breaker type.
- Where wire nuts are approved for temporary wiring, they shall be of the self-sealing type.
- All conductor splices must be contained within a listed enclosure, ground box or the splices will be more than ten feet above grade vertically and more than five feet horizontally from any metal structure. Where temporary conductors are installed in any area that is likely to be subjected to vehicle traffic, or mobile construction equipment, the vertical clearance to ground shall be at least 18 feet when measured at the lowest point. Where power conductors are to be supported by a span wire, the span wire shall be properly grounded.
- Existing conduit containing service conductors uncovered during the construction process shall be repaired in a timely manner in accordance with the NEC. Existing non-metallic conduit exposed during construction shall not be left exposed above grade, or with less than eighteen inches of cover, without protective methods approved by the Engineer.

**ELECTRICAL DETAILS-  
CONDUCTORS**

ED(2)-03

© TxDOT January 1992		DATE	BY	CHKD	DATE	CHKD
10-93	REVISIONS	DATE	BY	CHKD	DATE	CHKD
4-98						
12-00						
3-03						

The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DISCLAIMER:

DATE: FILE:

**II. GROUND RODS**

**A. MATERIALS**

- All ground rods installed at electrical services, including supplemental lightning protection ground rods specified by the plans in other locations such as pole bases, shall be copper clad and UL listed. Rods shall be a minimum diameter of 5/8 inch. The length shall be a minimum of 8 feet. Larger diameter or longer length rods may be called for in some specific locations, see the individual plans sheets.
- Ground rod clamps shall be listed to be in direct contact with the soil. Where concrete encasement is required, the clamp shall be listed for concrete encasement.

**B. CONSTRUCTION METHODS**

- Ground rods installed in locations such as pole bases, to provide supplemental lightning protection need not be totally in contact with the soil. Where called for in the plans, rods may be encased in soil or concrete or any combination of soil and concrete. When concrete encased, the connection of the conductor to the rod shall be readily accessible for inspection or repairs. When driven into the soil the upper end shall be between 2 to 4 inches below finished grade. Ground rods shall not be placed in the same drilled hole as a timber pole.
- Ground rods shall be installed such that the end imprinted with the rod's part number is installed as being the upper end.
- Non-conductive coatings such as concrete splatter shall be removed from the rod at the clamp location.
- Routing of lightning protection ground rod wires shall be run as short and straight as possible. Where bends are required they shall have a minimum radius of four inches.
- Unless specifically called for by the plans, conduits used for ground rod wires shall be non-metallic. Where metal conduits are specified, a grounding bushing and properly sized bonding jumper shall be provided and properly installed on each end.
- Where rocky soil or a solid rock bottom is encountered when driving a ground rod and the horizontal trench placement method is the only viable solution, written authorization from the Engineer must be obtained.

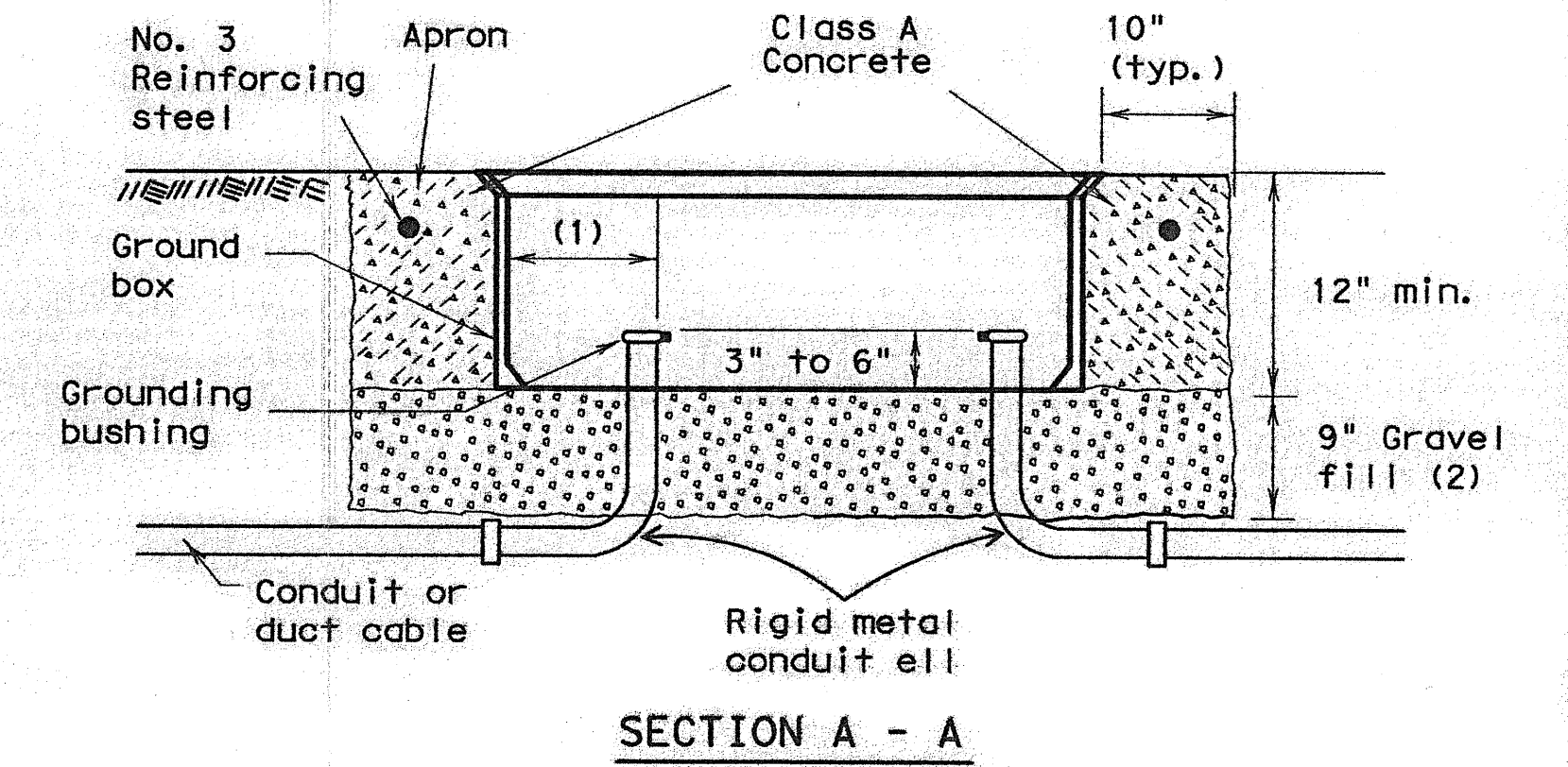
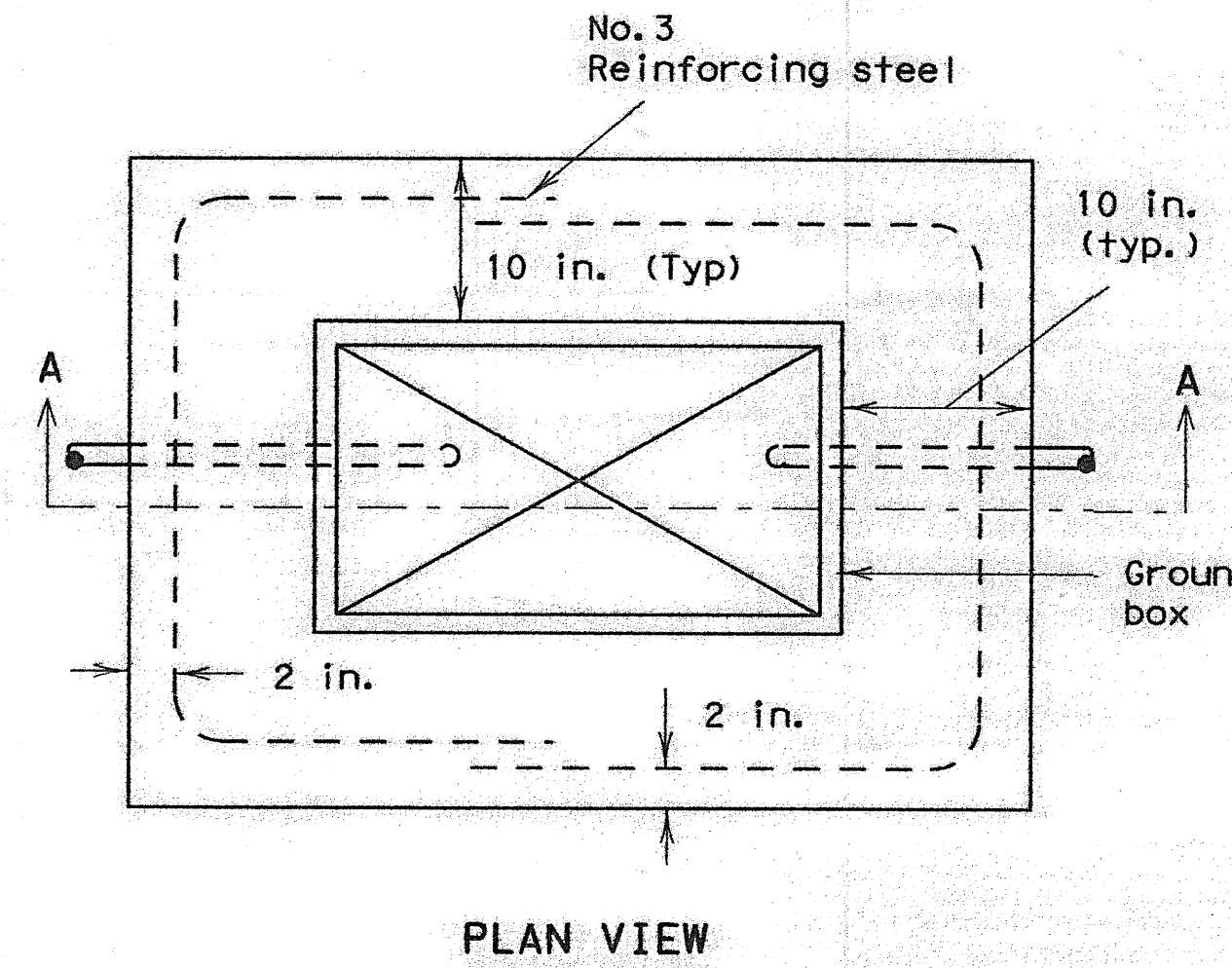
**III. GROUND BOX**

**A. MATERIALS**

- Ground boxes 16x30x24 inches (WxLxD) or smaller shall be polymer concrete of the type required by the descriptive code shown elsewhere. Larger ground boxes shall be as shown elsewhere in the plans.
- All ground boxes and covers shall be permanently marked either by impress or by permanent ink, with manufacturer's model number and manufacturer's name or logo.
- Covers shall be bolted down, and bolt holes in the box shall be arranged to drain dirt.
- Ground box Types A, B, C, D & E shall meet the following requirements:
  - Ground boxes and covers be manufactured from polymer concrete reinforced with continuous strands of woven or stitched borosilicate fiberglass cloth. The polymer concrete shall be made from catalyzed polyester resin, sand and aggregate, and shall have a minimum compressive strength of 11,000 psi. Polymer concrete containing chopped fiberglass or fiberglass reinforced plastic is not acceptable.
  - Minimum inside dimensions shall be as follows (width x length x depth):
    - Type A shall be 11.5 inches x 21 inches x 10 inches, (122311)
    - Type B shall be 11.5 inches x 21 inches x 20 inches, (122322)
    - Type C shall be 15.25 inches x 28.25 inches x 10 inches, (162911)
    - Type D shall be 15.25 inches x 28.25 inches x 20 inches, (162922)
    - Type E shall be 11.5 inches x 21 inches x 16 inches, (122317)
  - Bottom edge of box or extension shall be footed with a minimum 1/4 inch flange.
  - Ground boxes shall withstand 600 lbs. per sq. ft. applied over the entire sidewall with less than 1/4 inch deflection per foot length of box. Ground boxes and covers shall withstand a test loading of 20,000 lbs. over a 10 inch by 10 inch area centered on the cover with less than 1/2 inch deflection. Ground boxes and covers shall meet Western Underground Standards 3.6. Manufacturer shall supply certification by an independent laboratory or sealed by a Texas-Licensed Professional Engineer.
  - Covers shall be 2 inch (nominal) thick polymer concrete. All hardware shall be stainless steel. Cover shall be secured with two 1/2 inch stainless steel bolts. Bolts shall be self-retaining and shall withstand a minimum of 70 ft-lbs. torque and shall have a minimum 750 lbs. straight pull out strength. Nuts shall be floating and shall provide a minimum of 1/2 inch movement from the center of the nut. Covers shall be skid resistant, minimum 0.5 coefficient of friction. Covers shall be interchangeable between manufacturers and shall conform to the dimensions shown herein. Unless otherwise approved by the Engineer, cover shall be legibly imprinted with the following words in minimum 1 inch letters:
    - Ground Boxes containing wiring for traffic signals shall be labeled, Danger High Voltage Traffic Signal.
    - Ground boxes containing wiring for illumination systems shall be labeled, Danger High Voltage Illumination.
    - Ground boxes containing wiring for traffic management systems shall be labeled, Danger High Voltage Traffic Management.
    - Ground boxes containing wiring for sign illumination systems shall be labeled, Danger High Voltage Sign Illumination.
    - Ground boxes containing wiring for traffic signals that also contain illumination, powered by the signal electrical service, shall be labeled, Danger High Voltage Traffic Signal.

**B. CONSTRUCTION METHODS**

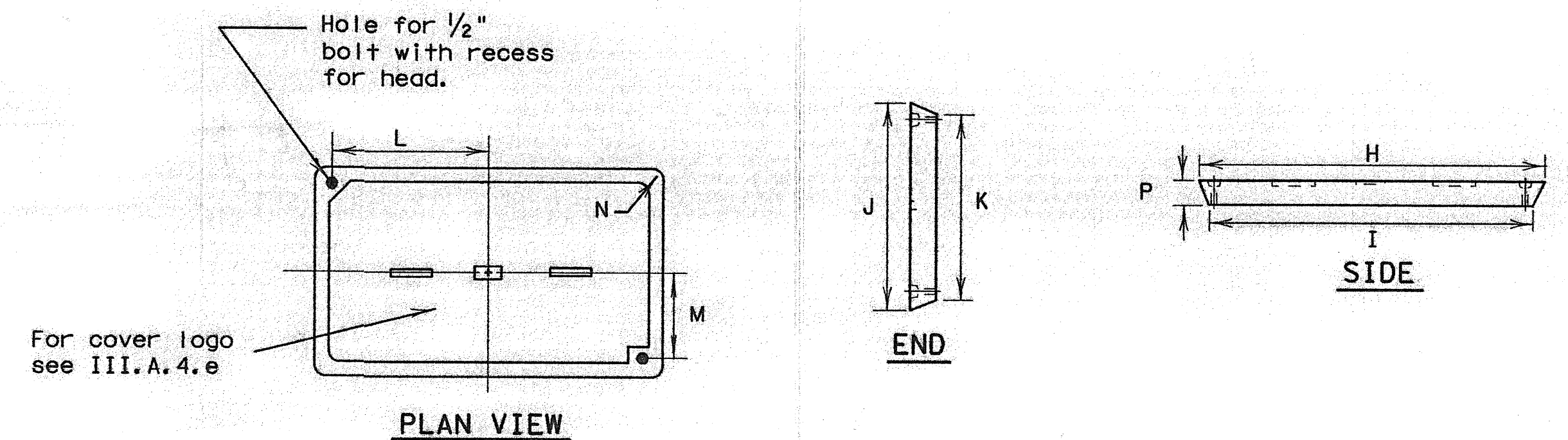
- Ground boxes shall be set on a 9 inch (minimum) bed of aggregate from 3/4" up to 2" in size. Aggregate shall be in place prior to setting box and conduits shall be capped. Any gravel or dirt in conduit shall be removed.
- When required by item descriptive code, construction of an apron encasing a ground box including concrete and reinforcing steel shall not be paid for directly but shall be subsidiary to the ground box. Reinforcing steel may be field bent. Concrete for aprons shall be considered miscellaneous concrete for testing purposes. Aprons shall be cast in place.
- Conduit holes may be cut in the walls of type B & D boxes at least 18 inches beneath the cover.
- If, within the limits of this project, the Contractor must utilize an existing ground box equipped with a metal cover, the Contractor shall bond the cover to the grounding conductor with a 3 foot long flexible stranded jumper the same size as the grounding conductor. Connection of bonding jumper to metal ground cover shall not be paid for directly but shall be subsidiary to various bid items. The box(es) must be clearly shown on the plans with plan notes fully describing the work required.
- If there are other ground boxes with metal covers within the project limits but not involved in the contract, the Engineer may direct the Contractor to ground the covers, designating and identifying the specific boxes in writing. This work will be paid for separately.
- Termination to metal ground box covers shall be made using a tank ground type lug.



**APRON FOR GROUND BOXES**

(Where required)

- Final position of end of conduit shall not exceed one-half the distance to the side of box opposite the conduit entry.
- Place gravel "under" the box, not "in" the box. Gravel should not encroach on the interior volume of the box.
- Install bushing on the upper end of all ells.
- Where a ground rod is present in the ground box, connect it to any and all equipment grounding conductors using a listed connector.
- Maintain sufficient space between all conduits so as to allow for proper installation of bushings.
- All conduits shall be installed in a neat and workmanlike manner.
- All conduits installed in the ground box shall be sealed after completion of conductor installation and any required pull tests. Silicone shall not be used as sealant.



**GROUND BOX COVER**

GROUND BOX COVER DIMENSIONS								
BOX	DIMENSIONS (INCHES)							
SIZE	H	I	J	K	L	M	N	P
A, B & E	23 1/4	23	13 3/4	13 1/2	9 7/8	5 1/8	1 3/8	2
C & D	30 1/2	30 1/4	17 1/2	17 1/4	13 1/4	6 3/4	1 3/8	2

Texas Department of Transportation  
Traffic Operations Division

**ELECTRICAL DETAILS-  
GROUND BOXES**

ED (3) - 03

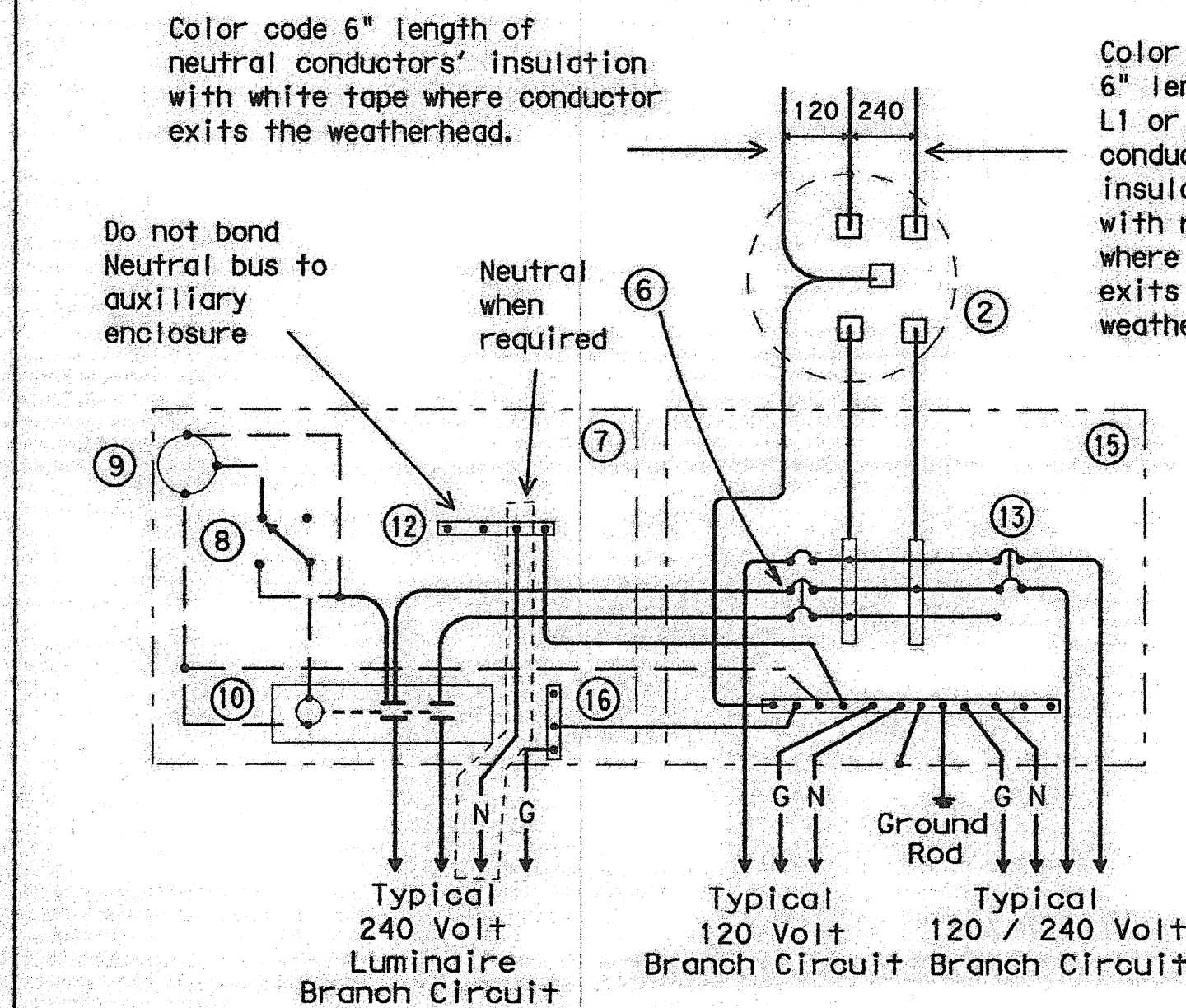
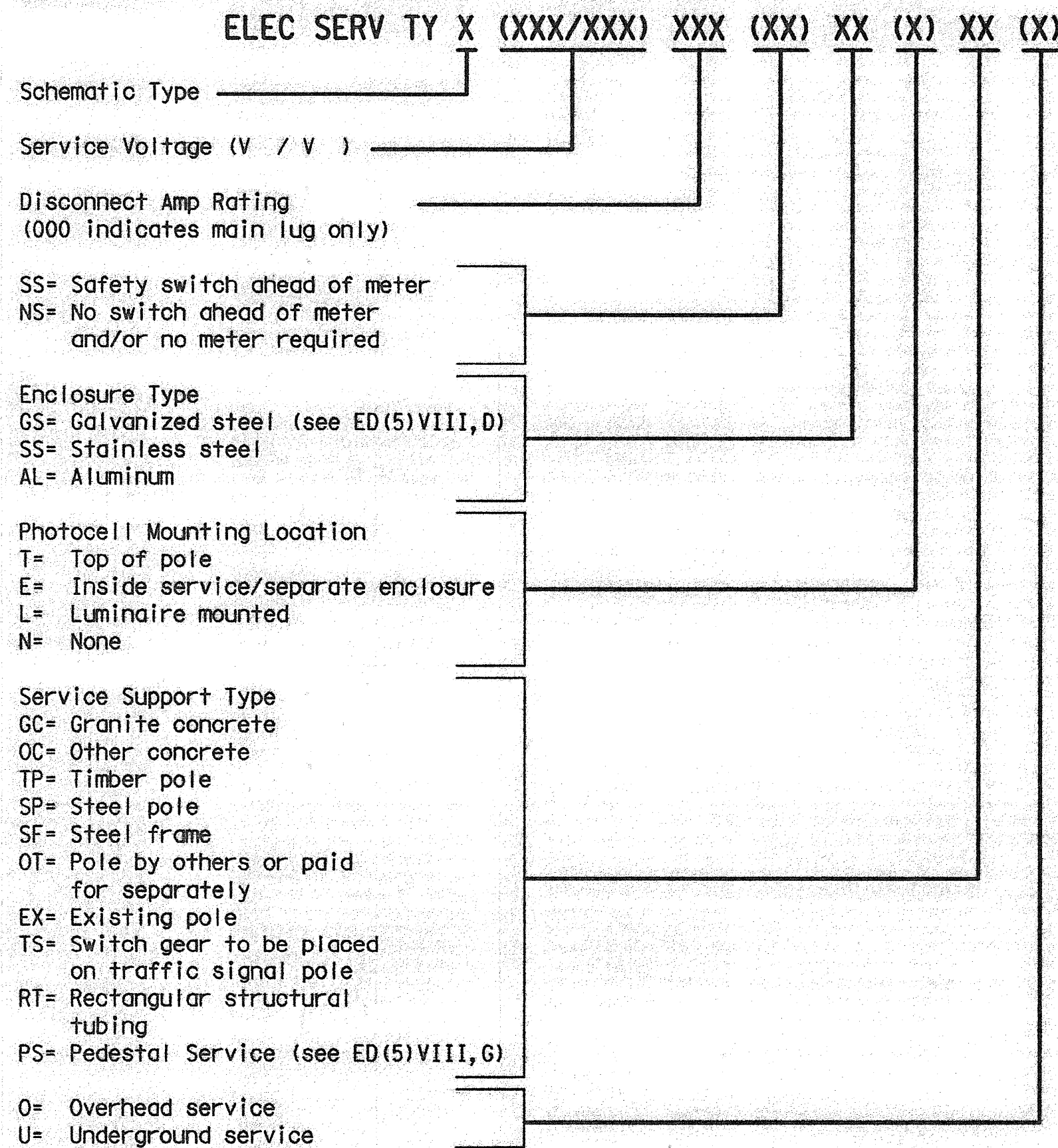
5/03 Revision Revised notes.	© TxDOT January 1992				REVISED	NO. TxDOT	CK: TxDOT	DATE TxDOT	CK: TxDOT
	4-98	12-00	3-03	5-03	REVISED	NO. TxDOT	CK: TxDOT	DATE TxDOT	CK: TxDOT
	QUANT. SECT.		JUS		HIGHWAY				
	DIST		QUANTITY		SHEET NO.				

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

**ELECTRICAL SERVICES NOTES**

- All work, materials, services, and incidentals, whether or not specifically shown on the plans, which may be necessary for a complete and proper electrical service installation as specified in the plans to obtain electrical power shall be paid for, performed, furnished and installed by the Contractor. The Contractor shall contact the Utility for metering and shall comply with all Utility requirements.
- Primary line extensions, connection charges, meter charges, and other charges by the Utility company to provide power to the location shown, when required, shall be paid for under force account work. The costs associated with these charges shall be approved by the Engineer prior to engaging the Utility company to do the work. The Contractor shall consult with the appropriate Utility to determine costs and requirements, and shall coordinate the Utility's work as approved by the Engineer. The Contractor shall be reimbursed only the amount billed by the Utility. No additional amount for supervision of the Utility's work will be paid.
- Materials shall be new and unused, materials and installation shall comply with the applicable provisions of the National Electrical Code (NEC) and National Electrical Manufacturers Association (NEMA) standards and shall be Underwriters Laboratories (UL) Listed. Electrical Service conduits, conductors, disconnects, contactors, circuit breaker panel sizes, and branch circuit breakers, shall be as shown in the Electrical Service Data elsewhere in the plans. Faulty fabrication or poor workmanship in any material, equipment, or installation shall be justification for rejection.
- The Contractor shall submit for approval no less than six (6) copies of catalog cut sheets on electrical service materials. Submittals shall be legible and shall be marked to indicate which product on a cut-sheet is to be supplied. Where manufacturers provide warranties and guarantees as a customary trade practice, Contractor shall furnish to the State such warranties or guarantees.
- The Contractor shall provide locks keyed with Master #2195 for all lockable electrical enclosures. Keys and locks become property of the State. Unless otherwise approved by the Engineer, enclosures shall not be energized until locks are provided and all bolts are installed.
- Circuit directories, where provided, shall be filled out. All breakers and components in shop built panels and enclosures shall be labeled with duo-colored plastic labels. Letters shall be a minimum 3/8" in height.
- Enclosures with external disconnects that de-energize all equipment inside the enclosure, need not have dead front trim, except that incoming line terminations shall be protected from incidental contact.
- When galvanized is specified for nuts, screws, bolts or miscellaneous hardware, stainless steel may be used. All wiring and components shall be rated for 75 degrees C. Minimum size for service entrance conductors shall be #6 XHHW.
- I. Safety Switch. A safety switch, placed ahead of the meter, shall only be used when specified by the Utility and when shown on the Electrical Service Data. The switch shall be UL Listed, heavy duty type, 600 volt, unfused, with a UL type 3R enclosure and equipped with a solid neutral (s/n) assembly. The switch shall be padlockable in the "on" position.
  - II. Service Type. Electrical service types A, C, D, and T shall be as schematically detailed on ED(4) or ED(5). Other service types shall be as detailed elsewhere on the plans.
  - III. Branch Circuit Breakers. Circuit breakers shall be thermal magnetic and have a minimum interrupting capacity of 10,000 amps and a voltage rating compatible with their use. Circuit breakers shall be sized as shown in the electrical service data. Circuit breakers in panelboards and load centers shall be full size and designed exclusively for the panelboard or load center in use. Tandem and half-width breakers shall not be used. All circuit breakers shall be permanently and clearly marked identifying the circuit or device supplied. Circuit breakers shall be UL Listed to UL489.
  - IV. Circuit Breaker Panelboard. Panelboards shall be UL Listed. Panelboards shall have copper buses, a minimum of 6 one-pole spaces or as required in the electrical service data, and when required will be rated for service equipment. Enclosure shall meet UL type 3R classification. Panelboards shall have a threaded hub conduit entry for conduit entering the top of the enclosure. Circuit breakers shall be bolt-in type only.
  - V. Circuit Breaker Load Center. Load centers shall be UL Listed. Load centers for type T services may have copper or aluminum buses, all other load centers will be copper bus only. Load center will have a minimum of 4 one-pole spaces, and shall be rated for service equipment. Enclosure shall meet UL type 3R classification. Load centers shall have a threaded hub conduit entry for conduit entering the top of the enclosure. Circuit breakers shall be plug-in type only. Load centers for type T services shall accommodate a maximum of 6 one-pole breakers.
  - VI. Separate or Auxiliary Enclosure. Separate enclosures for HOA, photocell and lighting contactors for types D & T Services shall be a UL Listed assembly with outer door. Interior shall have dead front trim. HOA switch operator shall extend through the dead front trim. Photocell shall be mounted inside the enclosure as described in paragraph XIII when required by descriptive code. Separate enclosures shall meet the construction requirements of paragraph VIII. E, except that separate enclosure shall not have external operating handle, need not have a data pocket and door may latch at only one point. All equipment may be located in one enclosure instead of two, when approved by the Engineer.
  - VII. Where a Type D or T service is provided, laminated "as built" drawings are required as shown on ED(5) VIII E; shall be delivered before completion of the work, to the Engineer in lieu of placement within these smaller enclosures. Conduit may not enter the back wall of a service enclosure penetrating the equipment mounting panel. Provide grounding bushings on all metal conduits, terminate bonding jumper to grounding bus. Grounding bushing is not required when the end of the metal conduit is fitted with a conduit sealing hub or threaded boss such as a meter base.

**EXPLANATION OF ELECTRICAL SERVICE DESCRIPTIVE CODE**

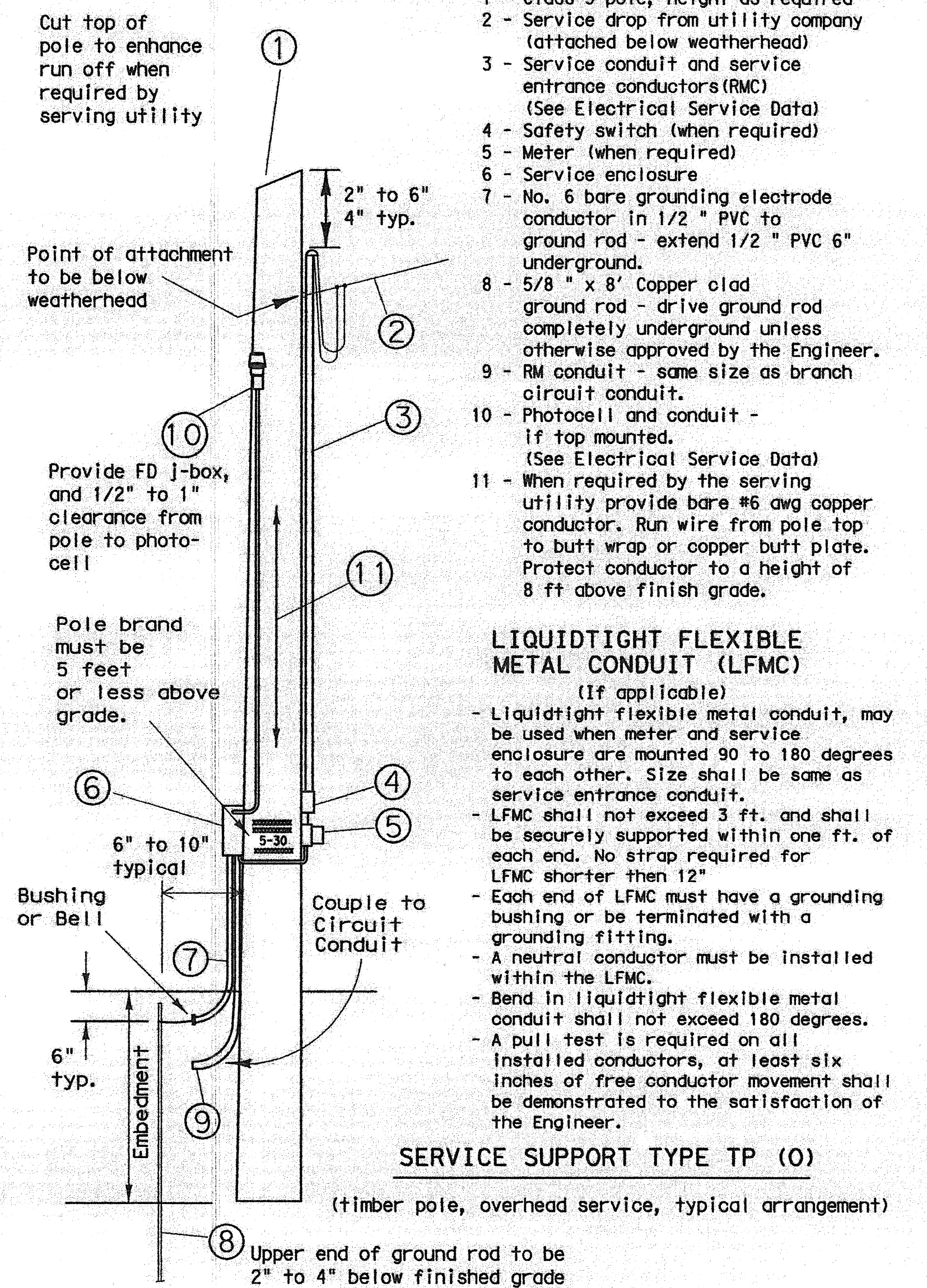
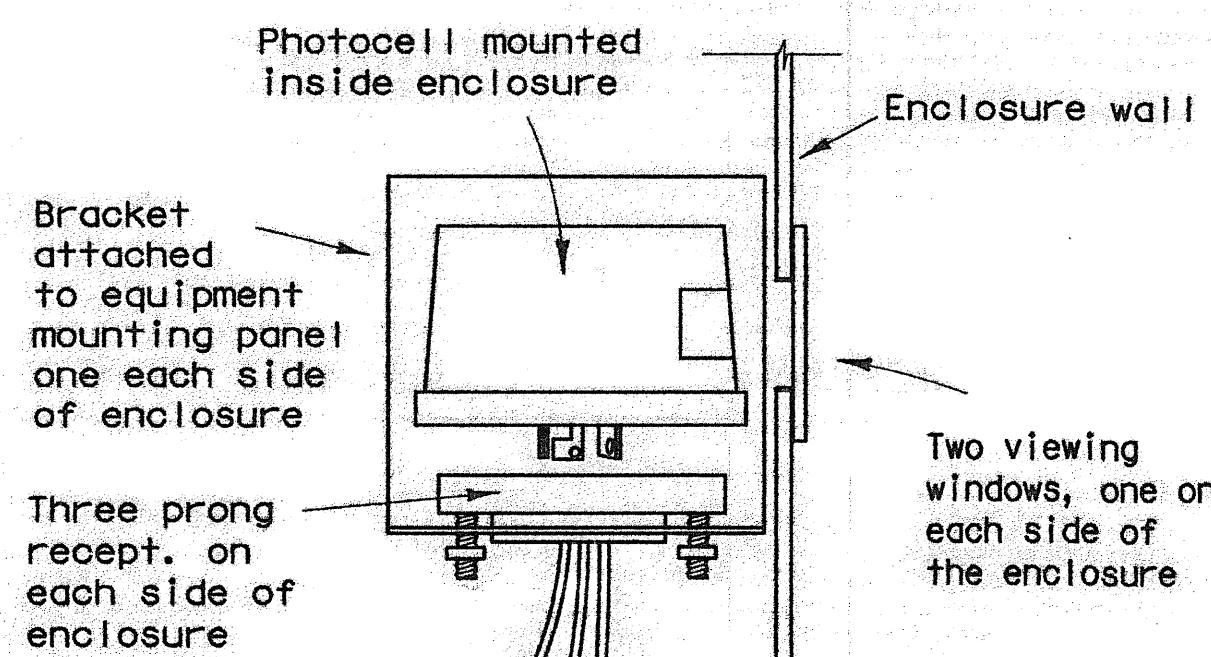
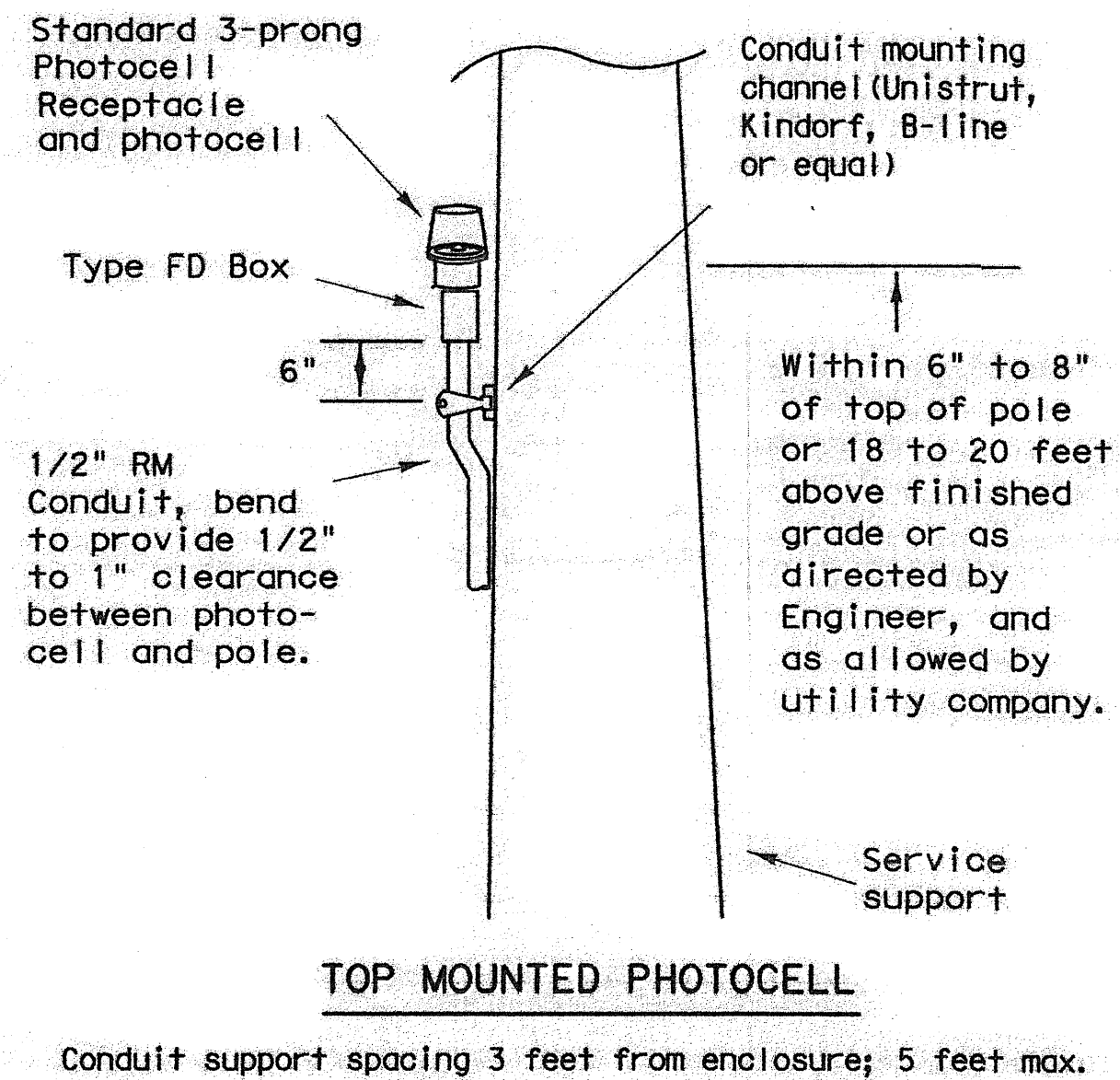


**SCHEMATIC TYPE T**  
120/240 VOLTS - THREE WIRE

Install photocell and lighting contactor when shown on Electrical Service Data.

**SCHEMATIC LEGEND**

- 1 - omitted
  - 2 - Meter (when required)
  - 3 - Service Assembly Enclosure
  - 4 - Main Disconnect Breaker (Not Used)
  - 5 - Omit
  - 6 - Circuit Breaker, 15 Amp typical for control circuit wiring
  - 7 - Auxiliary Enclosure
  - 8 - Control Station ("H-O-A" Switch)
  - 9 - Photo Electric Control (enclosure-mounted shown)
  - 10 - Lighting Contactor
  - 11 - Power Distribution Terminal Blocks (Not Used)
  - 12 - Neutral Bus required when 120 v. lights are controlled by lighting contactor
  - 13 - Branch Circuit Breaker (See Electrical Service Data)
  - 14 - Circuit Breaker Panelboard (Not Used)
  - 15 - Load Center
  - 16 - Ground Bus
- Power Wiring  
--- Control Wiring  
-N- Neutral Conductor (when required to serve 120 v. loads only)  
-G- Equipment grounding conductor-always required



**TIMBER POLE NOTES**

1. Conduit and electrical conductors attached to the electrical service pole and underground within 12 inches of service pole shall not be paid for directly but shall be subsidiary to the service pole.
2. Pole top mounted photocell, install on north side of pole or in service enclosure as required. See Electrical Service Data.
3. Attach meter and service equipment with stainless steel or galvanized channel (Unistrut, Kindorf, or equal). Gain pole as required to provide flat surfaces for each strut. Paint ends of galvanized channel with zinc rich paint. Gain depth 5/8" max. Gain height 1 7/8" max. Strut to be 1" max. deep, and 1 5/8" wide max. Secure each strut section to timber pole with two galvanized or SS lag bolts, 1/4" diameter min. by 1 1/2" length min. Place flat cut galvanized or SS washer on each lag bolt. Gain pole in a neat and workmanlike manner.
4. Embedment depth shall be as required in Item 627 Treated Timber Poles.
5. Poles trimmed for excess length shall be trimmed from the top end only.

Texas Department of Transportation  
Traffic Operations Division

**ELECTRICAL DETAILS-  
SERVICE SCHEMATICS AND  
SUPPORT-TYPE TP (OVERHEAD)**

**ED(4)-03**

© TxDOT April 1998	FILE TXDOT	CHK TXDOT	DATE TXDOT	CHK TXDOT
12-00	REVISED	CUAT	SECT	JUS
3-03				
			QUANTITY	SHEET NO.

71D

The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DISCLAIMER:

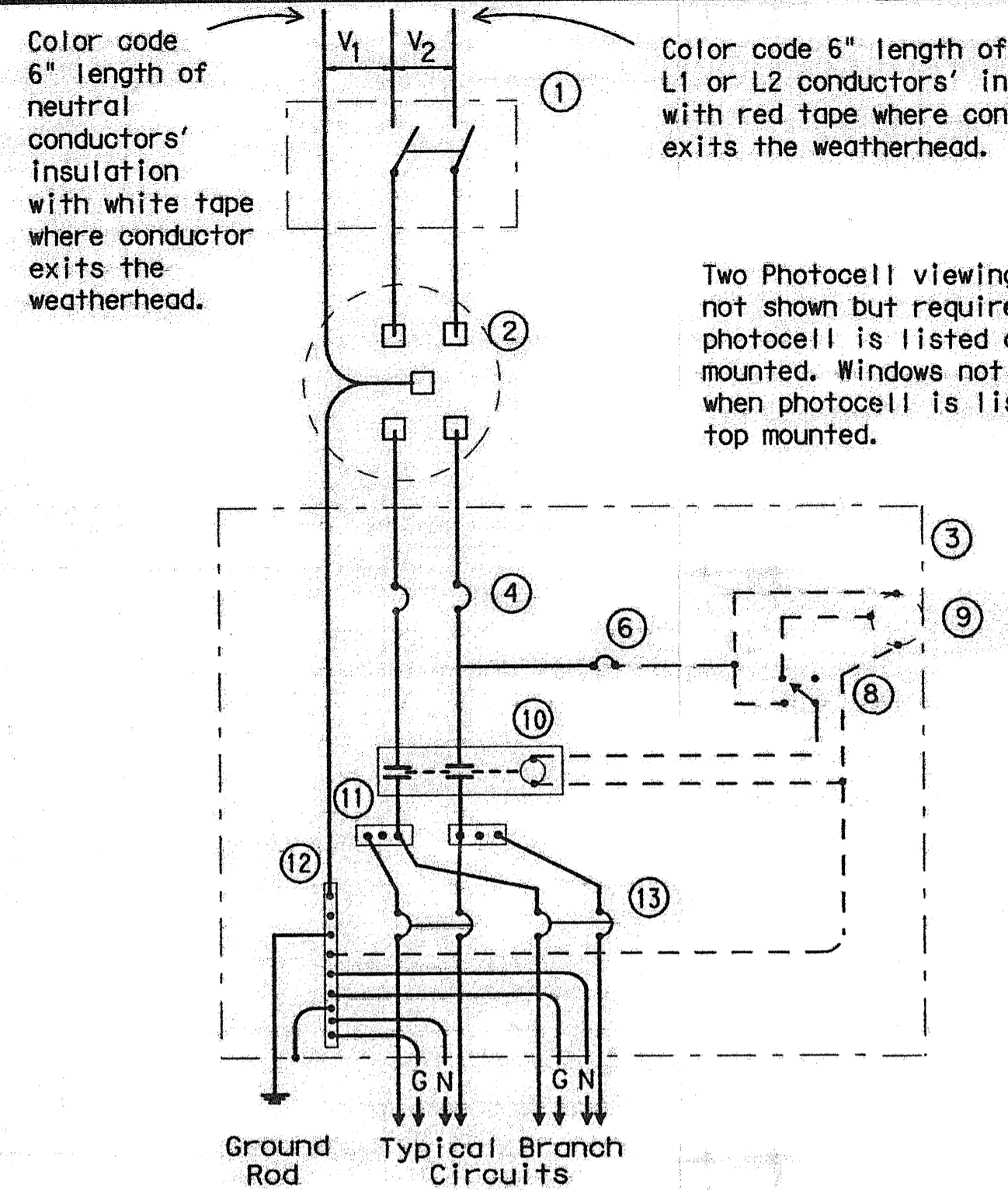
DATE:  
FILE:

**SERVICE ENCLOSURE NOTES**

- VIII. Service Assembly Enclosures. All service assemblies and enclosures shall be UL Listed for the intended purpose.
- A. Shop built or shop assembled service enclosures shall be UL Listed for the intended purpose. All auxiliary equipment enclosures mounted with service equipment and paid for as part of Item 628, "Electrical Services", shall be built or assembled by a UL Listed Industrial Control Panel shop and shall have a unique serial numbered UL Label with the words "LISTED ENCLOSED INDUSTRIAL CONTROL PANEL". The same or an additional label shall have the name, location, and phone number of the shop, the UL file number of the shop, the shop order or drawing number, date of manufacture or assembly, and the line voltage. The service assembly enclosure shall also be labeled "SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT".
  - B. Conduit entries into the top of enclosures shall have threaded hub. Conduit entries through the equipment mounting back plate will not be allowed.
  - C. All service enclosure front doors shall be permanently labeled "DANGER HIGH VOLTAGE". Label shall be a self sticking type, intended for outdoor installation. Lettering style, layout and colors of red, black and white shall be as required by OSHA. Label letters shall be 1 to 1 1/2 inches high or as high as the enclosure door width will permit for smaller services. Separate or auxiliary lighting enclosures need not be OSHA labeled when mounted in the same viewing plane as the service enclosure front door. Where only one type of load is served by the service, the service door shall be marked using duo-colored plastic labels or self adhesive vinyl weather resistant labels, minimum of 1 inch high; applied in a neat and workmanlike manner. On the label will be the service number shown on the plans as well as identifying the load served specifically (i.e. Lighting, Landscaping, signals, traffic management or other wording as directed by the Engineer). Safety switches need not be OSHA labeled unless specifically required by the serving utility.
  - D. Type GS enclosures will only be allowed for service Types D and T without an enclosure mounted photocell and/or lighting contactor and the Type C panelboard. This spec will allow an "off the shelf" product meeting these specifications to be used. Type GS enclosures shall be made from pre-galvanized steel sheeting, not dipped galvanized steel, or powder coat painted steel unless shown differently on the plans. Steel enclosures shall be painted inside and outside; galvanized enclosures may be painted. Unless otherwise approved by the Engineer, painted enclosures shall be gray, beige, white or light green. Panelboard/loadcenter enclosures shall meet UL type 3R requirements, shall have a dead front trim, and an outer padlockable door preventing unauthorized persons from operating contained equipment. Galvanized steel is no longer allowed for Types A, C, or custom-built D or T enclosures. If GS is shown in the descriptive code for any of these, an AL shall be provided.
  - E. Type AL enclosures for service Types A and C shall meet UL type 3R requirements and shall also meet additional requirements of this paragraph. The enclosure shall have both a main disconnect remote operator handle and a door latch handle. Die-cast handles are not acceptable. The main disconnect remote operator shall be flange-mounted, shall interlock the door when in the "on" position, and shall be padlockable in both the "on" or "off" positions. Door latch shall latch at two or more points, operate by a handle separate from disconnect switch and be capable of being locked. Door closure clamps will not be allowed. Lock must be keyed to Master #2195. All the enclosures shall have either a continuous stainless steel piano hinge with stainless steel pin or enclosures less than 30 inches may have two heavy duty hinges, those over 30 inches must have three. Heavy duty two and three point hinges shall have a 0.185 inch minimum diameter electro-zinc plated steel pin or a stainless steel pin. Two point hinged doors shall be rated for 56 lbs of loading. Three point hinged doors shall be rated for 70 lbs of loading. The door shall have an attached data pocket constructed of either thermoplastic or metal. Pocket shall be 12" x 12", unless that size will not fit in enclosure. The pocket shall then be as large as possible, as approved by the Engineer, and mechanically attached with stainless steel nuts and bolts, or stainless steel or aluminum rivets. Enclosure shall include an equipment mounting panel installed inside the enclosure on collar studs or tapped bosses, and constructed of a minimum 12 gauge galvanized steel. Equipment mounting panels shall not be painted. Enclosure shall have factory installed external mounting feet. Enclosure door shall be capable of opening at least 130 degrees, with arm or other approved means to hold the door open. Only the enclosure exterior will be primed and painted. Paint color shall be beige or gray and shall be powder coat paint as shown below. Condensation drainage shall be provided in the bottom of the enclosure before leaving the factory. The Contractor shall prepare and submit a schematic drawing unique to an individual service. The approved drawing shall be laminated and placed in the document pocket of the service at the time of shipment to the job site. All applicable wiring diagrams and plan sheet layouts for all equipment and branch breaker circuits supplied by that service shall also be laminated and placed in the document pocket prior to shipping. Type AL enclosures for Type D and T services with enclosure mounted photocell and/or lighting contactor shall have the loadcenter interior mounted in an enclosure with properly adapted dead front trim. Types D and T shall not have a loadcenter exterior "can" mounted inside another enclosure meeting these specifications. (Do not put one enclosure inside another enclosure). Types D and T with enclosure mounted photocell and/or lighting contactor shall meet the additional requirements of this paragraph except that remote-operating handle will not be provided.
  - F. Type SS enclosures for Type A and C shall meet all the requirements above for their respective type AL. Stainless Steel shall not be painted.
  - G. PS enclosure shall be as detailed and specified on ED(8). Galvanized steel will not be allowed for any pedestal service. If GS is shown in the descriptive code an AL will be provided.
  - IX. Powder Coat Paint. Powder coating shall be either a polyester thermosetting resin, a zinc rich primer with a TGIC (triglycidyl isocyanurate) powder overcoating, or a zinc-rich epoxy powder, applied by either electrostatic spray or fluidized bed immersion, high temperature oven cured, high density, low gloss, 4 mil thick (minimum), coating. Adhesion shall meet the 5A or 5B classifications of ASTM D3359. Finish shall be uniform in appearance and free of scratches.
  - X. Main Disconnect. Main disconnect device shall be a circuit breaker, as specified in the Electrical Service Data, shall be two or three pole, and rated for the voltage and amperage specified. Circuit breaker shall be an UL Listed thermal-magnetic circuit breaker controlled by flange-mounted remote operator in the service assembly enclosure when required. Circuit breakers shall have a minimum interrupting rating of 10,000 Amps. When the utility company provides a transformer larger than 50 KVA, Contractor shall verify that the available fault current is less than the circuit breaker interrupting capacity (AIC) rating and shall provide documentation from the Utility to the Engineer. Documentation shall be submitted at the same time as other electrical submittals. Circuit breaker shall be UL Listed to UL489. No backfed breakers will be allowed for use as a main disconnect.
  - XI. Control Circuit. Control circuit protection shall be 15 amp circuit breaker.
  - XII. Control Station ("H-O-A" Switch). Control station shall be a maintained-contact, three position selector switch in an UL type enclosure. Switch shall be rated 600 volts and shall be fitted with "Hand-Off-Auto" legend.
  - XIII. Photo Electric Control. Photo electric control shall consist of a photocell, internal lightning arrester, and relay or bimetallic switch mounted inside a weatherproof enclosure with standard 3-prong twist lock photocell plug and receptacle. The enclosure shall be made of poly-acrylic with clear acrylic window. Enclosure chassis shall be molded thermosetting plastic. The photocell shall have a polyethylene gasket, and shall have a hermetically sealed cadmium sulfide cell. The arrester shall have an enclosed type expulsion arrester rated 2.0 KV sparkover with 5,000 amps follow-through. Relay or switch shall be time delay type with normally closed contacts. Photo electric control shall be rated a minimum of 1800 VA, voltage as required. Enclosure mounted photocells shall be the same as above except that the photocell shall be mounted inside the enclosure. The enclosure shall have two acrylic paneled windows, or other material approved by the Engineer, one on each side of the enclosure. Each window shall be rectangular approximately one inch by two inches, round 2 inch diameter, or as otherwise approved by the Engineer. Bracket and photocell's receptacle will be mounted inside enclosure next to each window. Except for window side, 2" of clearance is required on all sides of photocell for ease of replacement. The photocell's receptacle is held in place by two mounting screws on bracket and located next to each window of the enclosure. The 3-prong twist lock photocell shall be mounted in a position to receive light from the window closest to the photocell. The photocell shall be mounted in a position to receive light from one window. Top of pole mounted photocells shall be mounted as shown on ED(4). The Contractor shall be responsible for proper operation of the photo-electric control. The Contractor shall move and/or adjust or shield the photocell from stray or ambient nighttime light or shall make any other adjustments required for proper operation. The photocell shall face North when practicable. Unless otherwise shown on the plans, the photocell shall turn on the illumination system at 1.0 +/- 0.5 footcandle and turn off the illumination system at two footcandles higher than turn on.
  - XIV. Lighting Contactor. Lighting contactor shall be a UL Listed NEMA rated lighting contactor, two-pole or multipole as required, electrically held type designed to control high pressure sodium lighting loads, with silver alloy double break contacts rated at 240 volts, 480 volts or 600 volts as required. Lighting contactor shall not be the DIN rail mounted type.
  - XV. Power Distribution Terminal Blocks. Power distribution terminal blocks shall be rated for 600 volts and shall be used for line side connections to branch circuit breakers where more than one circuit breaker is required. Lugs on blocks shall be properly sized for conductors being used. Only one conductor shall be placed under each lug.
  - XVI. Neutral/Ground Bus. Neutral/ground bus shall be a factory made bus permanently bonded to the enclosure with properly sized lugs for grounding and neutral conductors.

**SCHEMATIC LEGEND**

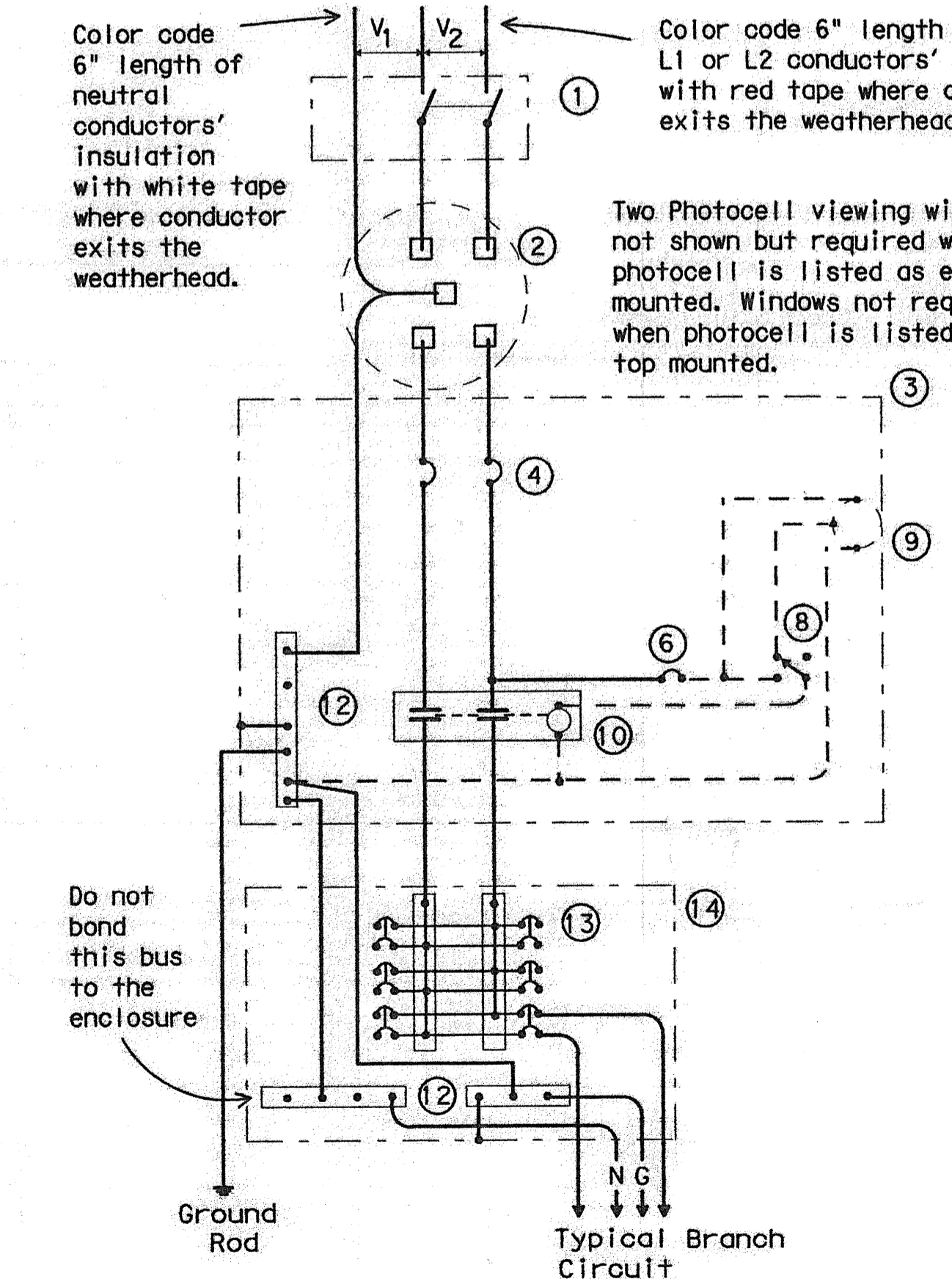
- |   |   |
|---|---|
| 1 - Safety Switch (when required)                         | 12 - Neutral/Ground Bus   |
| 2 - Meter (when required)                                 | 13 - Branch Circuit Breaker (See Electrical Service Data)   |
| 3 - Service Assembly Enclosure                            | 14 - Circuit Breaker Panelboard (See Electrical Service Data)   |
| 4 - Main Disconnect Breaker (See Electrical Service Data) | (If Type C is shown as AL or SS on descriptive code, this is the service assembly enclosure only. Panelboard enclosure is GS unless otherwise noted.) |
| 5 - Onit  | 15 - Load Center  |
| 6 - Circuit Breaker, 15Amp                                |   |
| 7 - Auxiliary Enclosure                                   |   |
| 8 - Control Station ("H-O-A" Switch)                      | --- Power Wiring  |
| 9 - Photo Electric Control (enclosure-mounted shown)      | --- Control Wiring  |
| 10 - Lighting Contactor                                   | -N- Neutral Conductor (when required) serve 120 v. loads only   |
| 11 - Power Distribution Terminal Blocks                   | -G- Equipment grounding conductor-always required   |



**SCHEMATIC TYPE A**

**THREE WIRE**

Maximum feeder circuit size (High Mast Poles): 100 amps for two pole 480V, 125 amps for one or two pole 120V or 240V. Maximum branch circuit size: 50 amps.



**SCHEMATIC TYPE C**

**THREE WIRE**

Maximum feeder circuit size (High Mast Poles): 100 amps for two pole 480V, 125 amps for one or two pole 120V or 240V. Maximum branch circuit size: 50 amps.

Color code 6" length of L1 or L2 conductors' insulation with red tape where conductor exits the weatherhead.

Two Photocell viewing windows not shown but required when photocell is listed as enclosure mounted. Windows not required when photocell is listed as pole top mounted.

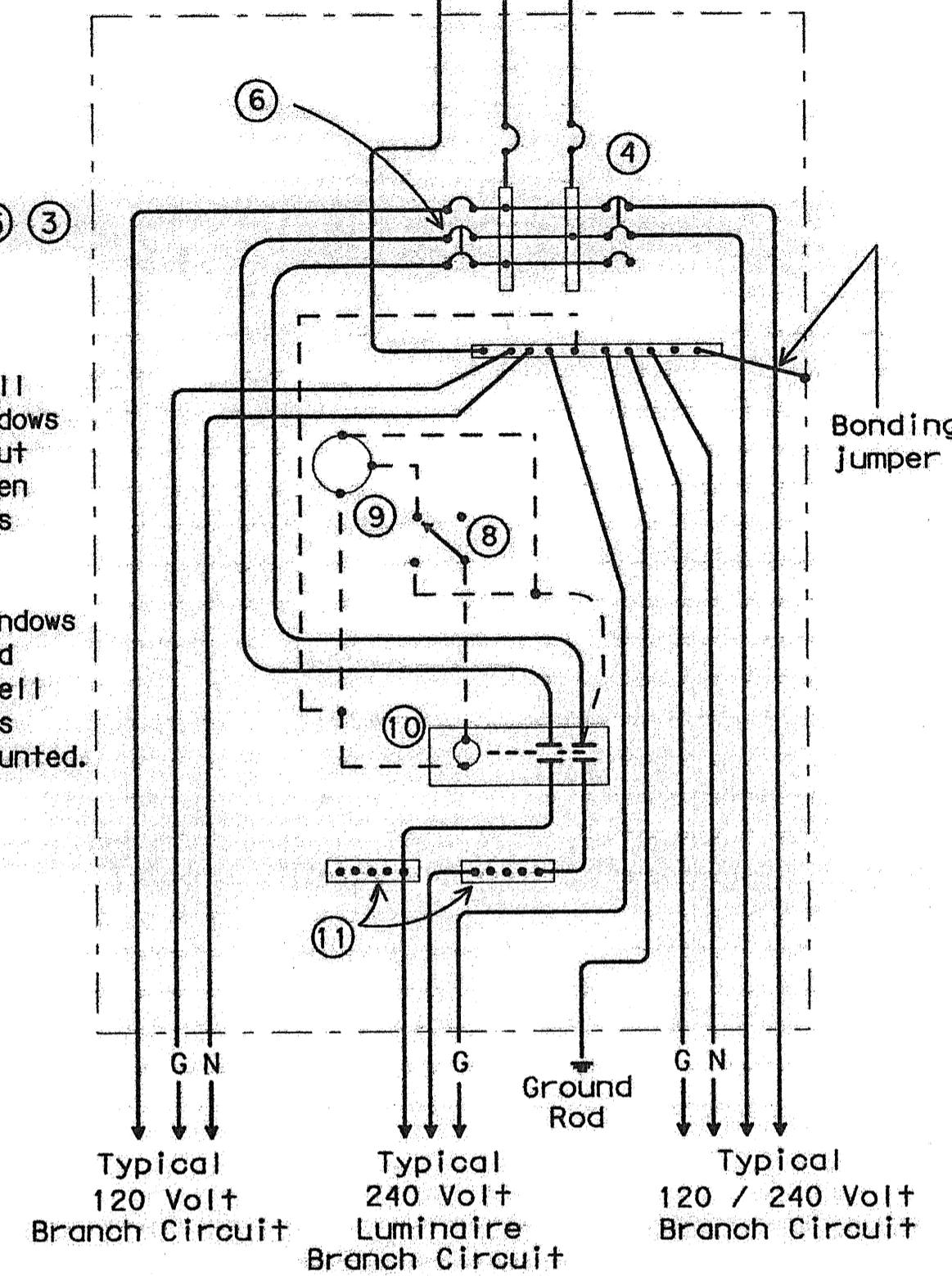
Color code 6" length of L1 or L2 conductors' insulation with red tape where conductor exits the weatherhead.

Two Photocell viewing windows not shown but required when photocell is listed as enclosure mounted. Windows not required when photocell is listed as pole top mounted.

Color code 6" length of neutral conductors' insulation with white tape where conductor exits the weatherhead.

Color code 6" length of L1 or L2 conductors' insulation with red tape where conductor exits the weatherhead.

Two Photocell viewing windows not shown but required when photocell is listed as enclosure mounted. Windows not required when photocell is listed as pole top mounted.



**SCHEMATIC TYPE D**

**120/240 VOLTS - THREE WIRE**

Install photocell and lighting contactor when shown on Electrical Service Data. See Type D service notes.

**TYPE D SERVICE NOTES**

Photocell and lighting contactor shall be located either in the same UL type 3R enclosure with load center or, if approved by Engineer, in separate enclosure. There shall be a window on each side of enclosure to allow operation of photocell. Both photocell contactor and breaker area shall have dead front trim. Enclosure, except for RT and PS supports, shall not exceed 36 inches in height or 16 inches in width unless approved by the Engineer. Ty D load center with lighting controls or Ty D separate lighting control enclosure shall have power distribution blocks for a minimum of 4, #8 conductors per phase.

Texas Department of Transportation  
Traffic Operations Division

**ELECTRICAL DETAILS-  
SERVICE ENCLOSURE  
& NOTES**

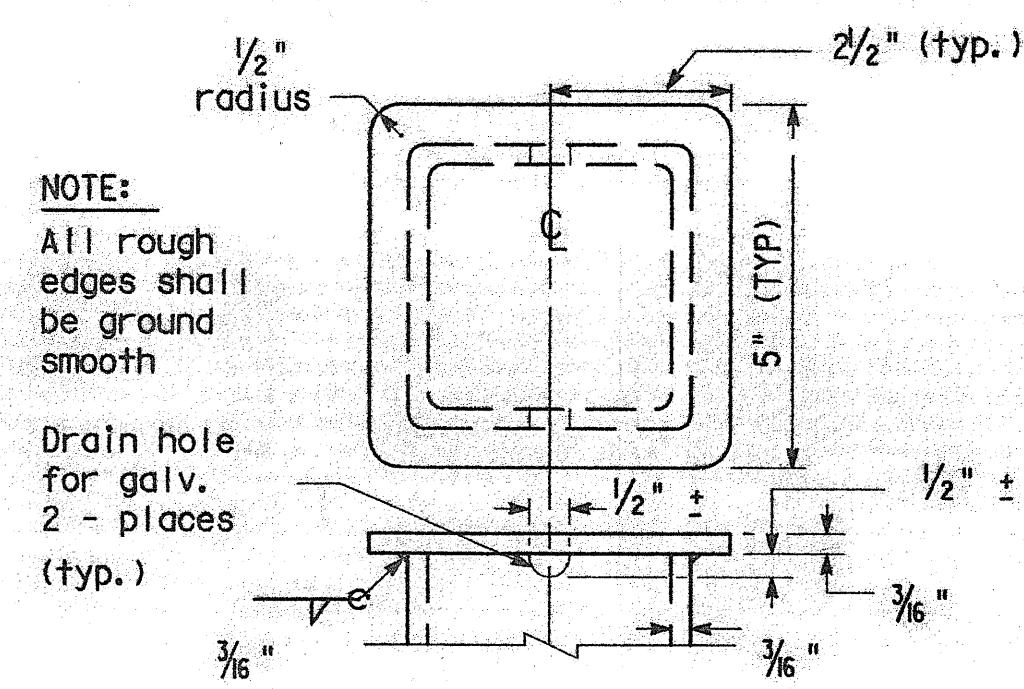
**ED(5)-03**

© TxDOT April 1998		DATE	SECTION	DATE	REVISION
12-00	REVISIONS				
3-03					
		DATE	QUANTITY		SHEET NO.

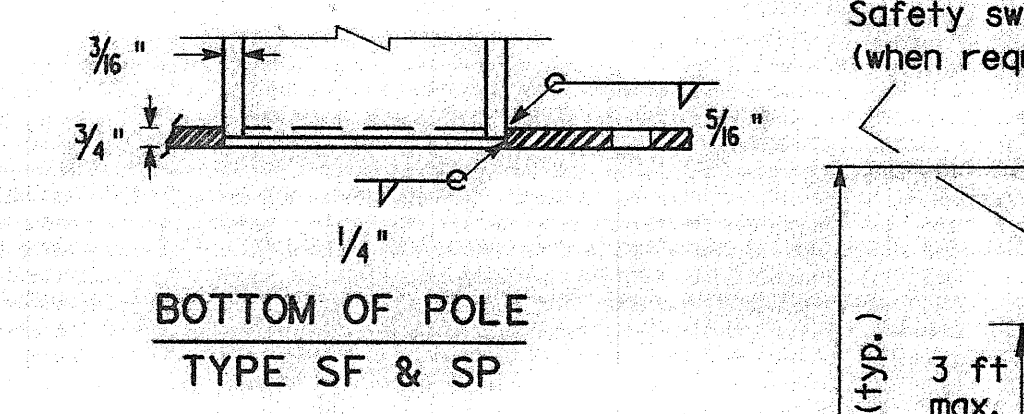
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DISCLAIMER:

DATE:  
FILE:

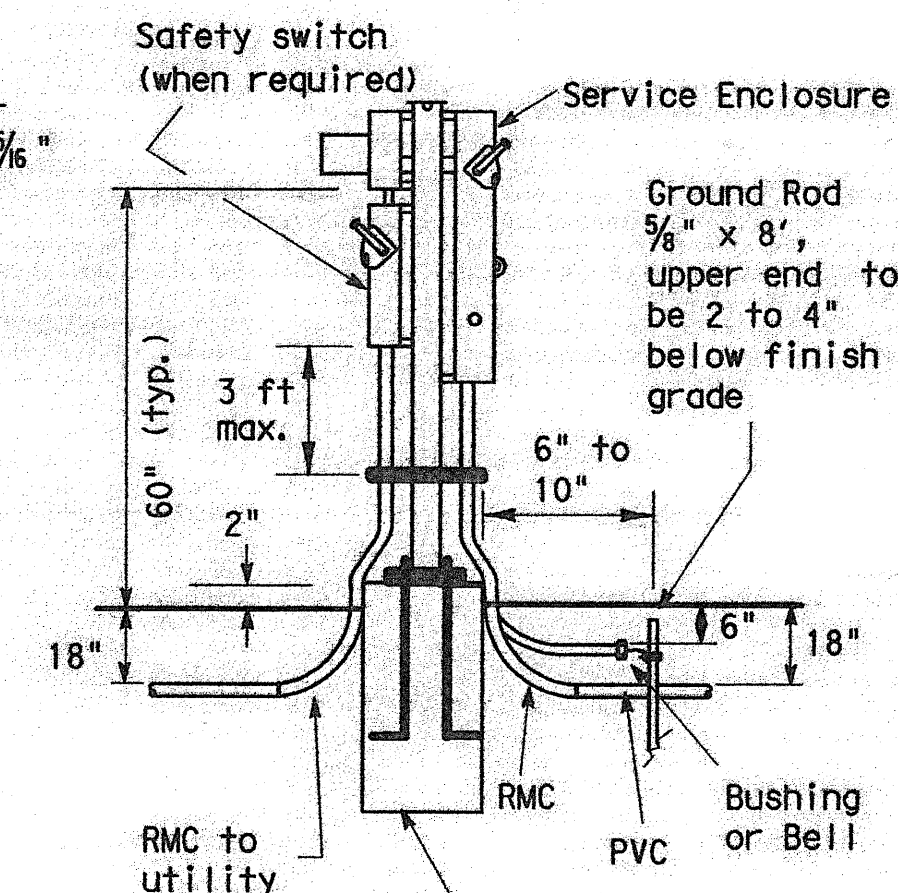


**TOP OF POLE  
TYPE SF & SP**

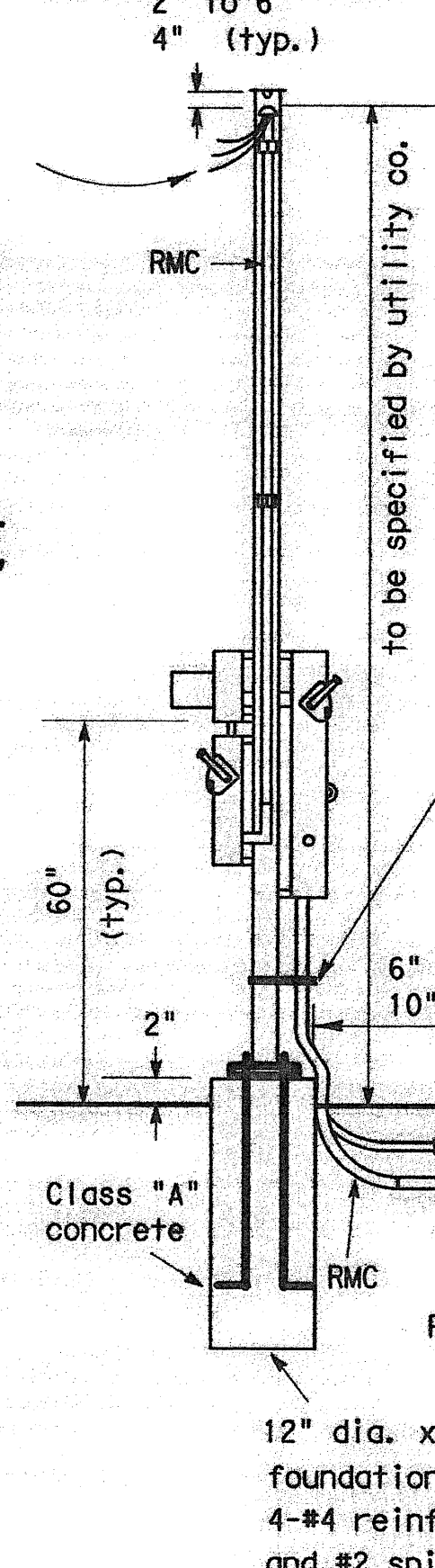


**BOTTOM OF POLE  
TYPE SF & SP**

Color code 6" of grounded neutral conductors insulation with white tape where conductor exits the weatherhead. Color code 6" of L1 or L-2 Hot-ungrounded conductors insulation with red tape where conductor exits the weatherhead. Conductor free length, 12" min., 18" max.



**SERVICE SUPPORT  
TYPE SP (U)  
UNDERGROUND SERVICE  
WITH SAFETY SWITCH**



**SERVICE SUPPORT  
TYPE SP (O)  
OVERHEAD SERVICE  
WITH SAFETY SWITCH**

Provide grounding bushings on all metal conduits, terminate bonding jumpers (min. #6 AWG, Copper) to grounding bus. Grounding bushing not required when conduit end is fitted with a conduit sealing hub or a threaded type of boss such as a meter hub.

Channel bracket or other arrangement approved by the Engineer. (Kindorf, Unistrut, B-line or equal.)

Stand off type conduit support hardware shown. Provide when required by the utility.

RMC unless otherwise called for by the utility.

Conduit support spacing, 3' from the ends, max. and 5' in between unless otherwise called for by the utility.

**UNDERGROUND RISER  
AT UTILITY POLE  
(for underground service)**

Top of weatherhead to be 2" to 6", 4" typical below the top of pole.

As required by utility co. min. 20' max. 25' above grade

Point of attachment of service drop to be below weatherhead

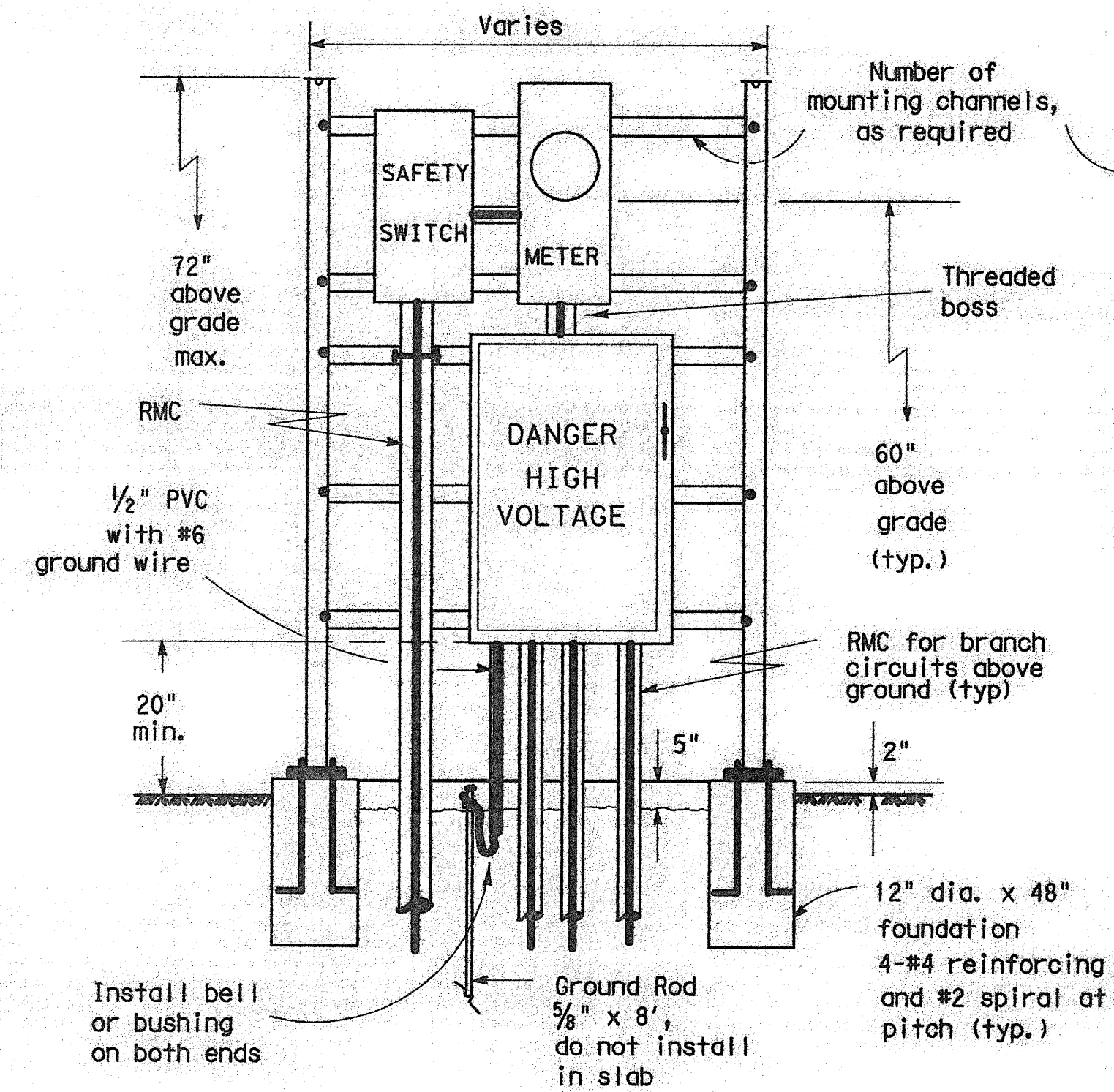
RMC size as shown elsewhere

Meter, Switch or enclosure, as required

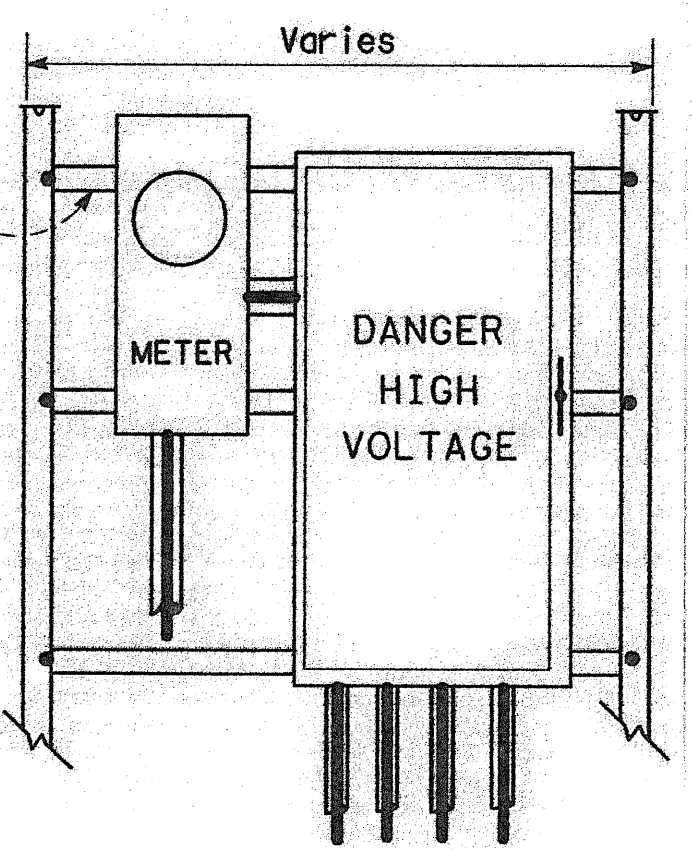
Color code 6" of grounded neutral conductors insulation with white tape where conductor exits the weatherhead. Color code 6" of L1 or L-2 Hot-ungrounded conductors insulation with red tape where conductor exits the weatherhead. Conductor free length, 12" min., 18" max.

Conduit support spacing, 3' from the ends, max. and 5' in between unless otherwise called for by the utility.

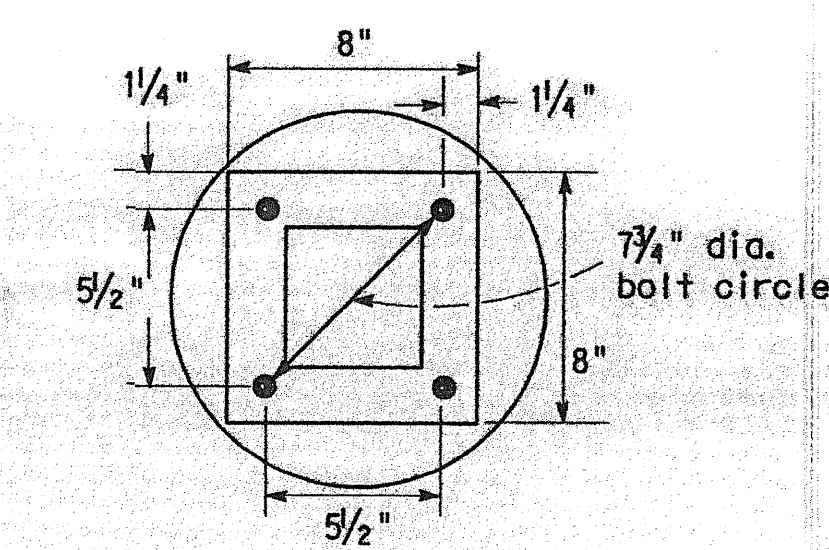
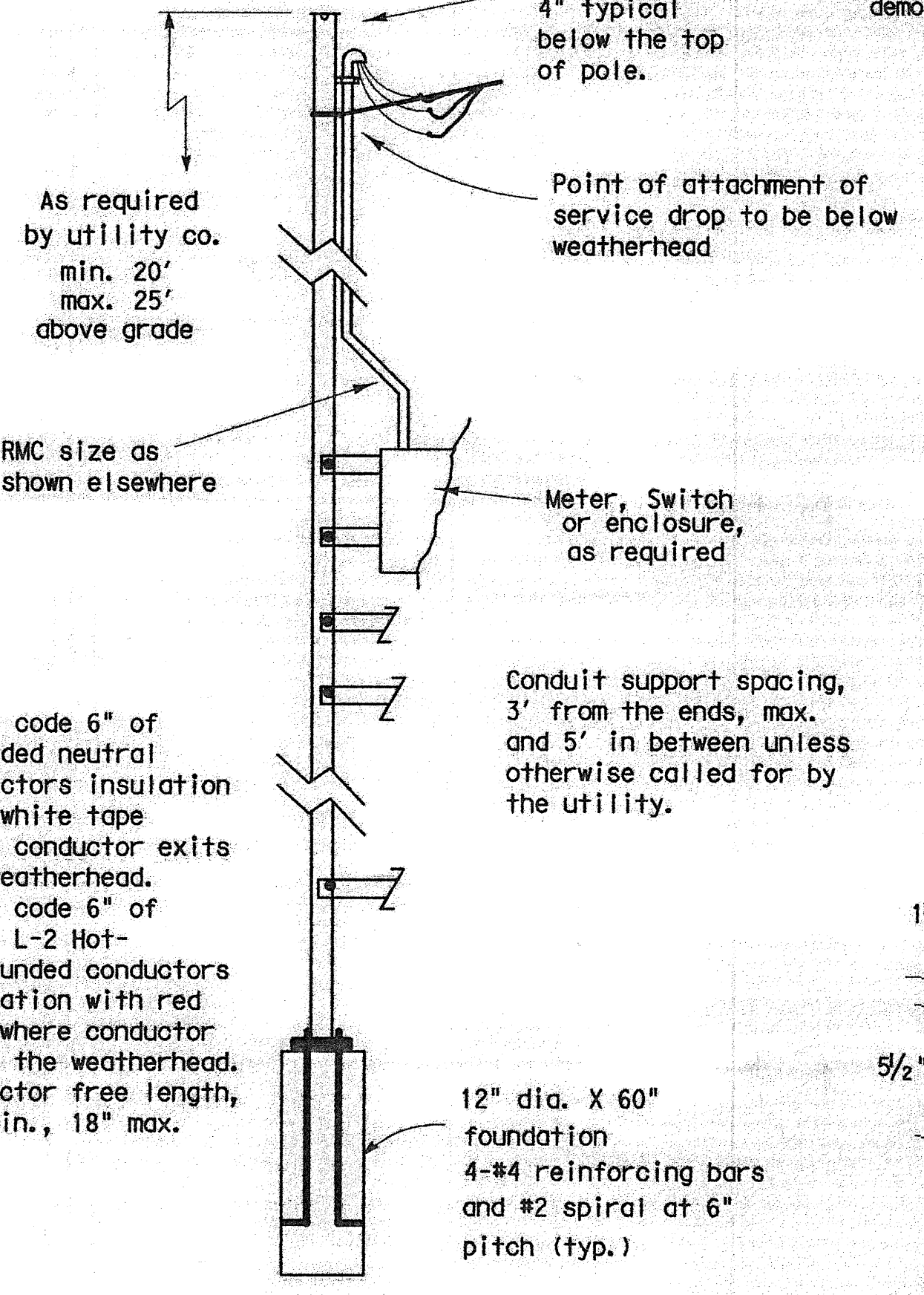
**SERVICE SUPPORT TYPE SF (O)  
OVERHEAD SERVICE**



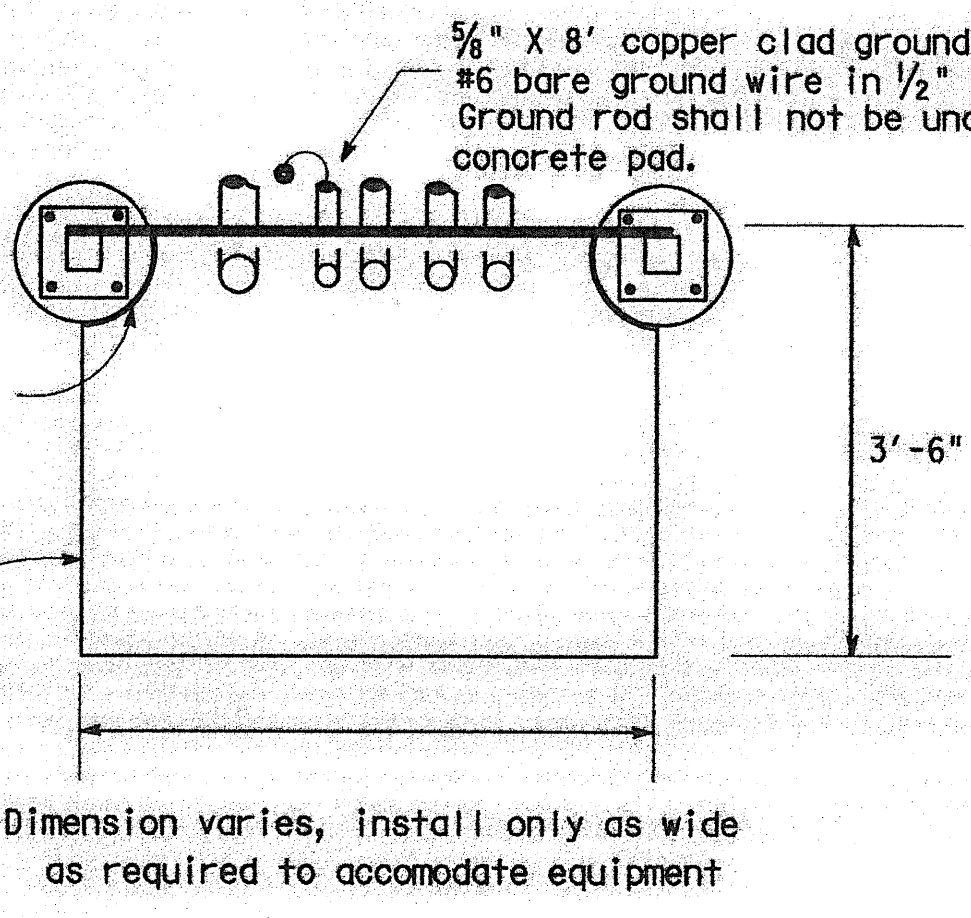
**SERVICE SUPPORT TYPE SF (U)  
UNDERGROUND SERVICE  
WITH SAFETY SWITCH  
(Typical Arrangement)**



**SERVICE SUPPORT TYPE SF (U)  
UNDERGROUND SERVICE  
WITHOUT SAFETY SWITCH**



**BASE PLATE DETAIL  
TYPE SF & SP**



**SERVICE SUPPORT TYPE SF (O) & SF (U)  
TOP VIEW**

**NOTES:**

- Support Type SP and SF: Fabricated from 4" x 4" x 3/16" square structural tubing, ASTM A500 Grade A or G or equal. Base plate shall be 3/4" plate, ASTM A36 or equal. All equipment and conduit shall be mounted on galvanized channel strut, 1 1/2" x 1 5/8" x 12 gauge galvanized steel channel (Unistrut, Kindorf, B-line or equal) clamped with channel hardware, bolted or welded to vertical member as approved by the Engineer.
- Paint field cut ends of all channels with zinc-rich paint.
- All Steel Poles (SP and SF) shall be hot-dip galvanized after fabrication. Poles for overhead service shall be fitted with eyebolt or similar fitting, as approved by the utility company, for attachment of service drop to the pole.
- All conduit and conductors attached to the electrical service and within 12 inches of the electrical service will not be paid for directly, but shall be subsidiary to the electrical service. All conduit and conductors from the utility company pole to the point 12 inches from the electrical service, including conduit and conductors required for the utility pole riser when furnished by the Contractor, will be paid for separately.
- All mounting hardware and installation details of services shall be in accordance with utility company specifications.
- Anchor bolts for underground service supports shall be 3/4" x 18" x 4" (dia. x length x hook length). Anchor bolts for overhead services shall be 3/4" x 56" x 4". Anchor bolts shall be provided with leveling nuts.
- Conduit for grounding electrode conductor (ground rod wire) shall be 1/2" PVC. All other conduit on electrical services shall be rigid metal conduit. Service entrance conduit size shall be as shown elsewhere. Conduit for branch circuit entry to enclosure shall be the same size as that shown on the layout sheets for branch circuit conduit. Rigid metal conduit shall extend to the rigid metal elbow and then be coupled to the type conduit shown on the layout for that particular branch circuit. RMC shall have grounding bushings in enclosures.
- If pole is painted, each separate painted piece shall have a bonding jumper attached to a tapped hole.
- Sheet metal screws are not allowed for bonding. Provide 1/4-20 machine screws. Remove all non-conductive material at contact points. Terminate bonding jumper using listed device. Bonding jumper min. #6 AWG Copper. Make up all threaded bonding connections wrench tight.
- Conduits entering enclosure from underground shall be sealed at both ends. Silicone sealant will not be allowed.
- Ground rod clamp to be UL listed for direct burial.
- Service entrance conductors shall exit separately bused non-metallic openings in weatherhead.
- Free conductor at weatherhead to be 12 in. min., 18 in. max., or as required by utility. Color code grounded-neutral conductor with white tape covering 6 in. of conductor. Color code L1 or L2 Hot un-grounded conductor with red tape covering 6 in. of conductor. Service drop and service entrance conductors must not contact metal pole in such a manner as to result in abrasion of insulated conductors.
- Conduit support spacing to be max. 3 ft. from ends, and max. 5 ft. in between.
- Shop drawings are not required for service support structure unless specifically stated elsewhere or as directed by the Engineer.
- Service enclosure to be labeled as specified on ED(5) VIII C.
- Liquidtight flexible metal conduit (LFMC) may be used between the meter and service enclosure when they are mounted 90 to 180 degrees to each other. LFMC shall be the same size as service entrance conduit. LFMC shall not exceed 3 ft. and shall be securely supported within one foot of each end. LFMC shorter than 12" need not be strapped. Each end of LFMC must have a grounding bushing or be terminated with a grounding fitting. A neutral conductor must be installed within the LFMC. Bend in LFMC shall not exceed 180 degrees. A pull test is required on all installed conductors, at least six inches of free conductor movement shall be demonstrated to the satisfaction of the Engineer.

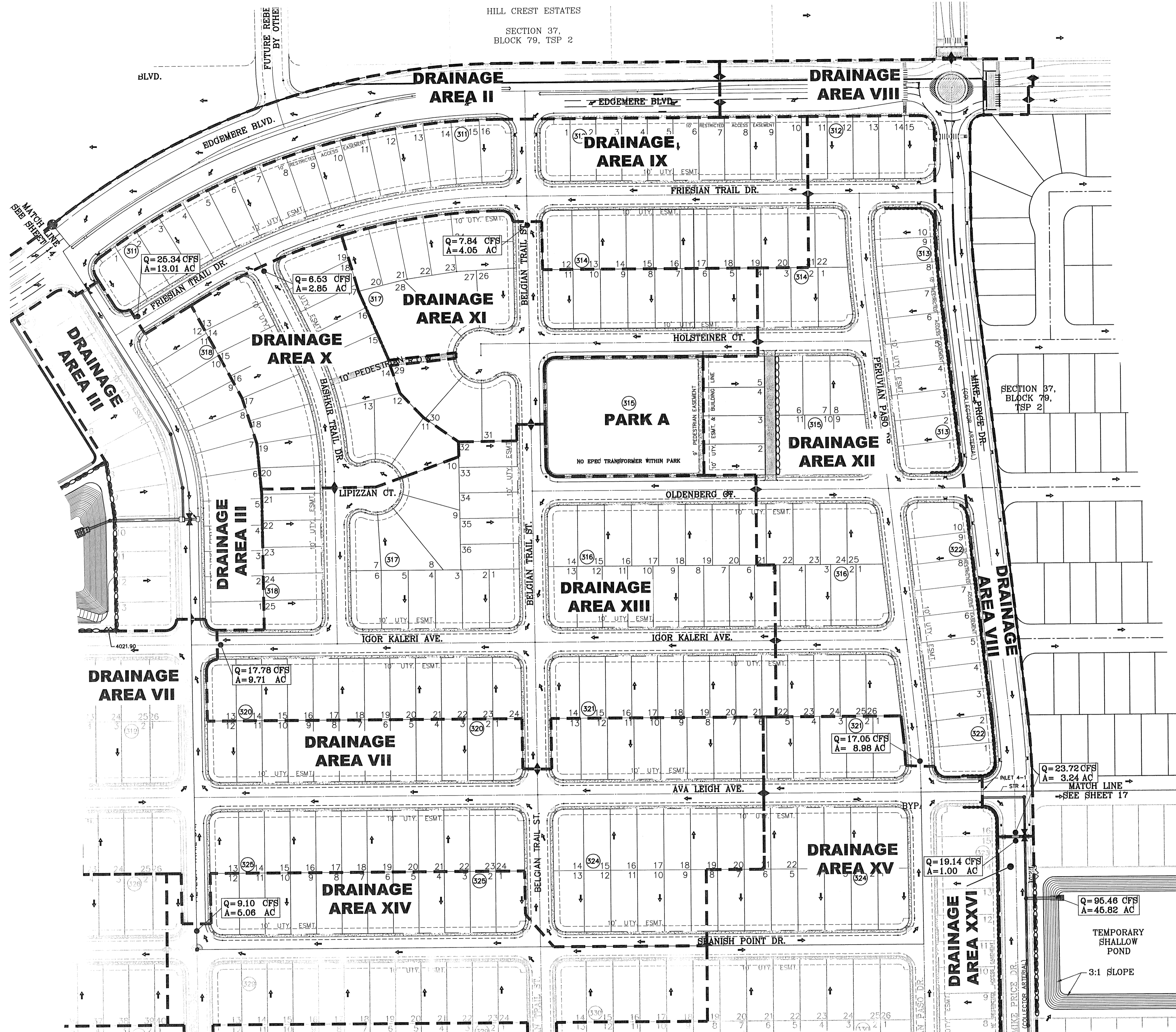
Texas Department of Transportation  
Traffic Operations Division

**ELECTRICAL DETAILS-  
SERVICE SUPPORT  
TYPES SF & SP**

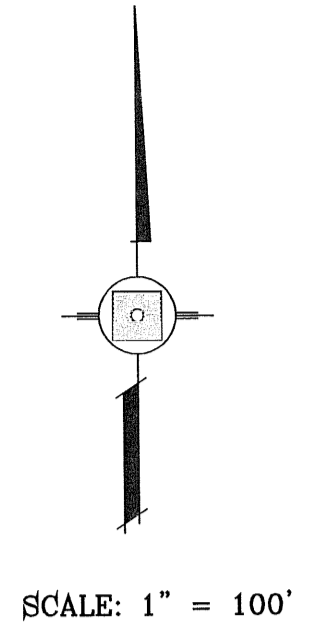
ED(6)-03

5/03 Revision	© TxDOT January 1992	REVISED	DATE	BY	CHKD	DATE	BY	CHKD	DATE
Revised notes.	4-98	REVISED	12-00	JUN					
	3-03								
	5-03								



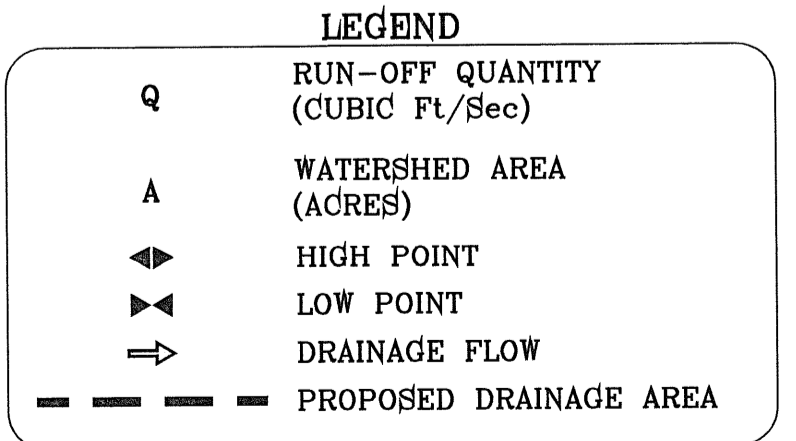


HILL CREST ESTATES  
SECTION 37,  
BLOCK 79, TSP 2



**NOTE:**  
HEREON DESCRIBED TRACT LIES IN ZONE X COMMUNITY PANEL NO. 480212 0175B. DATED SEPTEMBER 4, 1991.

STREET CARRYING CAPACITY					
STREET NAME	STATION	Q <sub>0</sub> CFS	Q <sub>100</sub> CFS	Velocity	Depth
AVA LEIGH AVE.	20+75.00	36.88	49.89	3.37	0.43'



- NOTES:**
- POND DESIGN, SIDE SLOPES, BENCHING, & DRAINAGE CALCULATIONS SHALL CONFORM TO REQUIREMENTS OF "DRAINAGE DESIGN MANUAL", "DESIGN STANDARDS FOR CONSTRUCTION" AND "AMEND GRADING ORDINANCE"
  - SEE SHEET 91 AND 92 OF 112 FOR DRAINAGE STRUCTURES.
  - DEVELOPER IS RESPONSIBLE FOR MAINTENANCE OF ALL OFF-SITE DRAINAGE STRUCTURES.

**INLET DATA**

INLET No.	INLET TYPE	No. GRATES	Qd cfs	Qc cfs
4-1	II	12	26.83	130.8
4-2	I	3	25.76	32.52
4-3	I	3	21.43	32.52
4-4	I	3	21.43	32.52

**WATERSHED-PARK A**

$$QT = \frac{A R C}{12} = AC-FT$$

POND CALC.  
QT=ACR/12  
A=TOTAL RUNOFF IN ACRE FEET  
R=RAINFALL IN INCHES  
C=RUNOFF FACTOR

PARK =	1.39(4) 0.40	0.19 ac-ft
	12	0.19 ac-ft
SILT & DEBRIS =		0.02
Qreq (TOTAL) =		0.20
Qcap (TOTAL) =		0.21
100 YEAR HW ELEVATION =		4026.97

**WATERSHED-TEMPORARY SHALLOW POND**

$$QT = \frac{A R C}{12} = AC-FT$$

POND CALC.  
QT=ACR/12  
A=TOTAL RUNOFF IN ACRE FEET  
R=RAINFALL IN INCHES  
C=RUNOFF FACTOR

RESIDENTIAL- & POND	40.69(4) 0.60	8.14 ac-ft
	12	
FUT. COMM=	5.15(4) 0.90	1.54 ac-ft
	12	
		9.68 ac-ft
SILT & DEBRIS =		0.55
Qreq (TOTAL) =		10.23
Qcap (TOTAL) =		18.15
100 YEAR HW ELEVATION =		4013.22
100 YEAR PONDED DEPTH =		4013.48

**REVISIONS**

DATE	REVISIONS	BY	O.M.
10/3/11	REVISIONS AS PER 8/24/11 REDLINES		
11/1/11	REVISIONS AS PER 10/19/11 REDLINES		

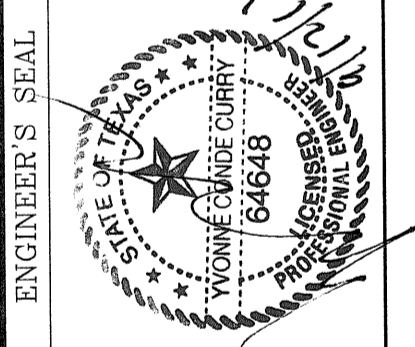
BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.  
ELEVATION 4017.47  
NAVD88 DATUM

**PROJECT NAME**  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

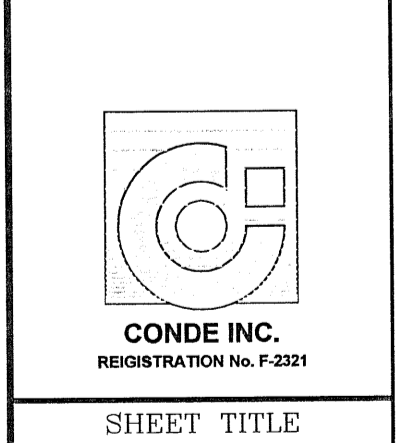
BEING PARTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

**SCALE**  
HORIZ. 1" = 100'  
VERT. 1" = 10'

DATE: MAY 2012  
DESIGN BY: ME  
INITIATED BY: EP/OM  
CHECKED BY: YC  
JOB NO.: 1110-18



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



**DRAINAGE PLAN**

SHT 15 OF 112



The use of this standard is governed by the "Texas Engineering Practices Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:  
FILE:

**Prequalification:**

- T. Use only pre-qualified fixtures. No alternates will be considered.
1. Only materials with approved product codes or designations from prequalified producers are accepted on bids. The Construction Division (CST) of the Texas Department of Transportation (TxDOT) maintains the material producers list of approved producer product codes or designations. Use the following website to view this list: [http://www.dot.state.tx.us/business/producer\\_list.htm](http://www.dot.state.tx.us/business/producer_list.htm)
  - Use of prequalified material does not relieve the contractor of the responsibility to provide materials that meet the specifications. All materials, including those shown on the prequalified material list, may be inspected and tested at any time and may be rejected if not in compliance with the specifications.
  2. Notify the Department in writing as to which fixture from the prequalified list of approved fixtures will be supplied on each project.
  3. To have a fixture listed as pre-qualified:
    - a. Submit a sample of each type of luminaire and all pertinent data, including published photometric data and recently tested photometric data (IES format, both "averaged" and both sides of "un-averaged" data) to: TxDOT- TRF 118 East Riverside Dr. Austin, TX 78704
    - b. Demonstrate a commitment to quality.
    - c. Submit the following documentation:
      1. QA/QC program documentation with the following minimum requirements;
        - a. Written statement of the companies QA/QC policy.
        - b. QA/QC person employed that has special QA/QC training and has QA/QC as their primary job responsibility.
        - c. A written procedure specifically for handling orders for fixtures built to TxDOT specifications.
        - d. A written procedure for keeping track of fixtures built, certified, and tested for TxDOT orders.
        - e. A check list of features for TxDOT fixtures with QA/QC person signature.
      2. Fixture UL certification
      3. IP 65 certification
      4. 3G certification
      5. Aluminum casting and paint analysis
      6. Socket, MOV, and shutoff ignitor data
      7. Stainless steel and aluminum bracket data
      8. Ballast electrical data
      9. Photometric data
      10. Lamp data
    - d. Prequalification samples, if approved, will not be returned to the manufacturer but will be retained by the the Department for comparison testing. Once a fixture has been approved, do not change any material or manufacturing method without prior approval of the Department. Unapproved changes will result in rejection of the fixture.
    - e. In addition, luminaires will be tested for compliance with this specification. Luminaires that inconsistently pass testing or that are inconsistent with published photometric information will be removed from the pre-qualified list at the discretion of the Department.

**Sampling:**

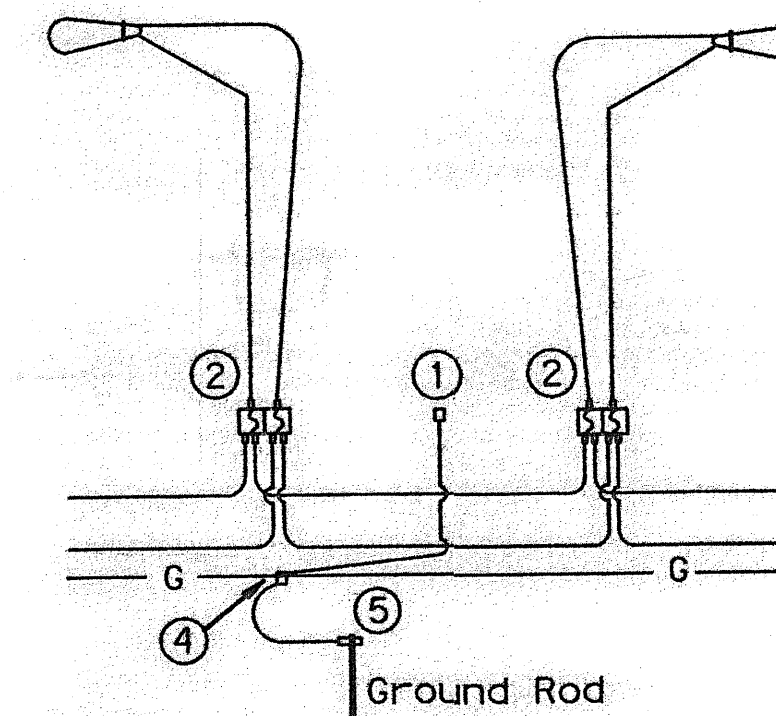
- U. Sample in accordance with Test Method Tex-1110-T, "Sampling Lighting Assemblies."

**Manufacturer Warranty:**

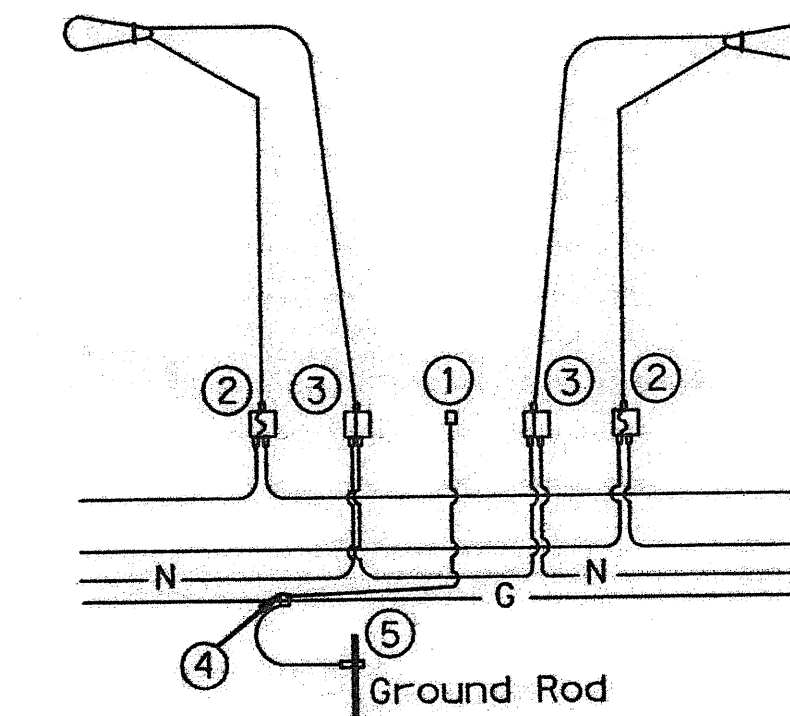
- V. Replace failed fixtures, when non-operable due to defects in materials or workmanship within five years of installation with a fixture that passes all testing, delivered to the project location. Lamps and photocells are subject to the warranties of their respective manufacturers.

**Testing:**

- W. Conduct electrical testing required in the Ballast section. Provide photometric testing of fixtures. Test fixtures at the following rates.
1. Manufacturer Testing. Before fixtures are shipped from the manufacturer, test fixtures as follows. From each lot or manufacturing run, select one completed fixture of each 25, with a minimum of 2 and a maximum of 5. Test photometrics at an independent test lab inspected and approved by TxDOT. Electrical testing may be performed at manufacturer's facility.
    - a. Provide IES photometric report in two formats:
      1. Standard averaged format for asymmetric fixtures.
      2. Un-averaged format showing both sides. Un-averaged data may be supplied in two files or as approved by the Department.
    - b. Provide electrical and photometric test data directly to TRF-TE electronically for evaluation prior to shipping fixtures to the project. Do not ship fixtures until test data for each lot is approved by TRF-TE.
    - c. Provide the following information on test reports:
      1. TxDOT's Control-Section-Job number, maintenance contract number, or purchase order number the fixtures are assigned to,
      2. a unique fixture test number per fixture,
      3. date of manufacture, and
      4. quantities supplied and lot number per fixture type.
    - d. Write the unique lab report number on the top of the fixture housing with permanent marker. Ensure the test lab retains the results for 5 years. Provide the Department access to documentation.
    - e. Retain records of manufacturing lots, test reports, lot quantities, and other pertinent details. Submit records to the Department upon request.
    - f. Submit to TRF-TE a daily shipment report for shipments to each job.
    - g. Make available to TxDOT inspectors upon request, all manufacturing facilities involved in the production of fixtures for use on Department projects, inventories of fixtures produced to Department specifications, and records of fixture testing and tracking.
  2. Departmental Test Reporting. Departmental test reports will be issued in accordance with Tex 1110-T.



**FOR THREE-WIRE CIRCUIT-CENTER GROUNDED**  
 LUMINAIRES SERVED AT 480V ON 240/480 VOLT SERVICE OR LUMINAIRES SERVED AT 240V FOR 120/240 VOLT SERVICE.



**FOR FOUR-WIRE CIRCUIT-CENTER GROUNDED**  
 LUMINAIRES SERVED AT 240V (240/480 VOLT SERVICE)

**NOTES:**

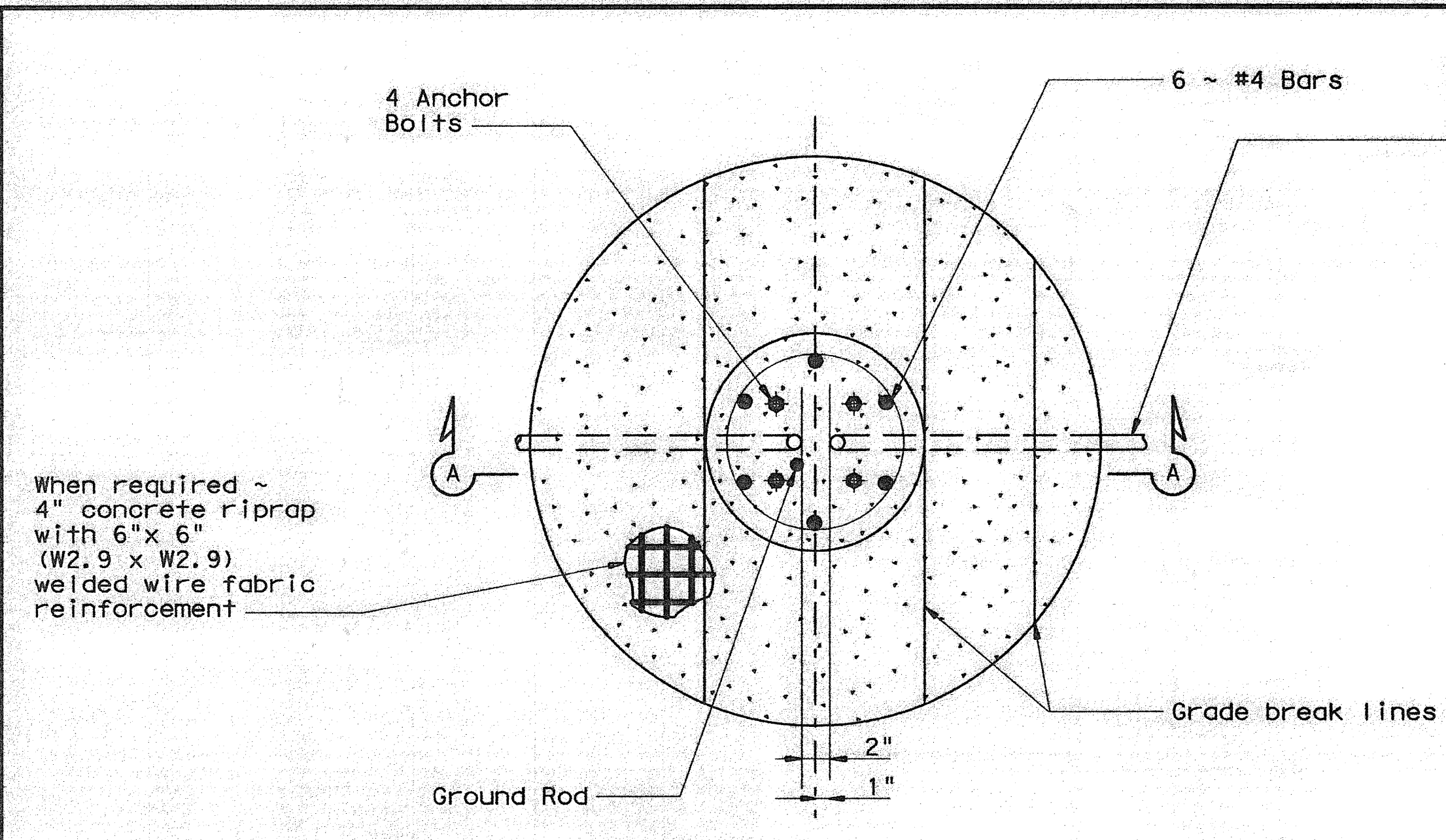
- ① Use 1/2 in.-13 UNC threaded, copper or tin-plated copper, pole bonding connector, sized appropriately for conductors.
- ② ③ Use pre-qualified Breakaway Connectors for both T-Base and Shoe-Base installations.
- ④ Split Bolt or other connector.
- ⑤ Use Ground Rod Clamp listed for its intended purpose (i.e. concrete, direct burial...)

Sheet 2 of 2

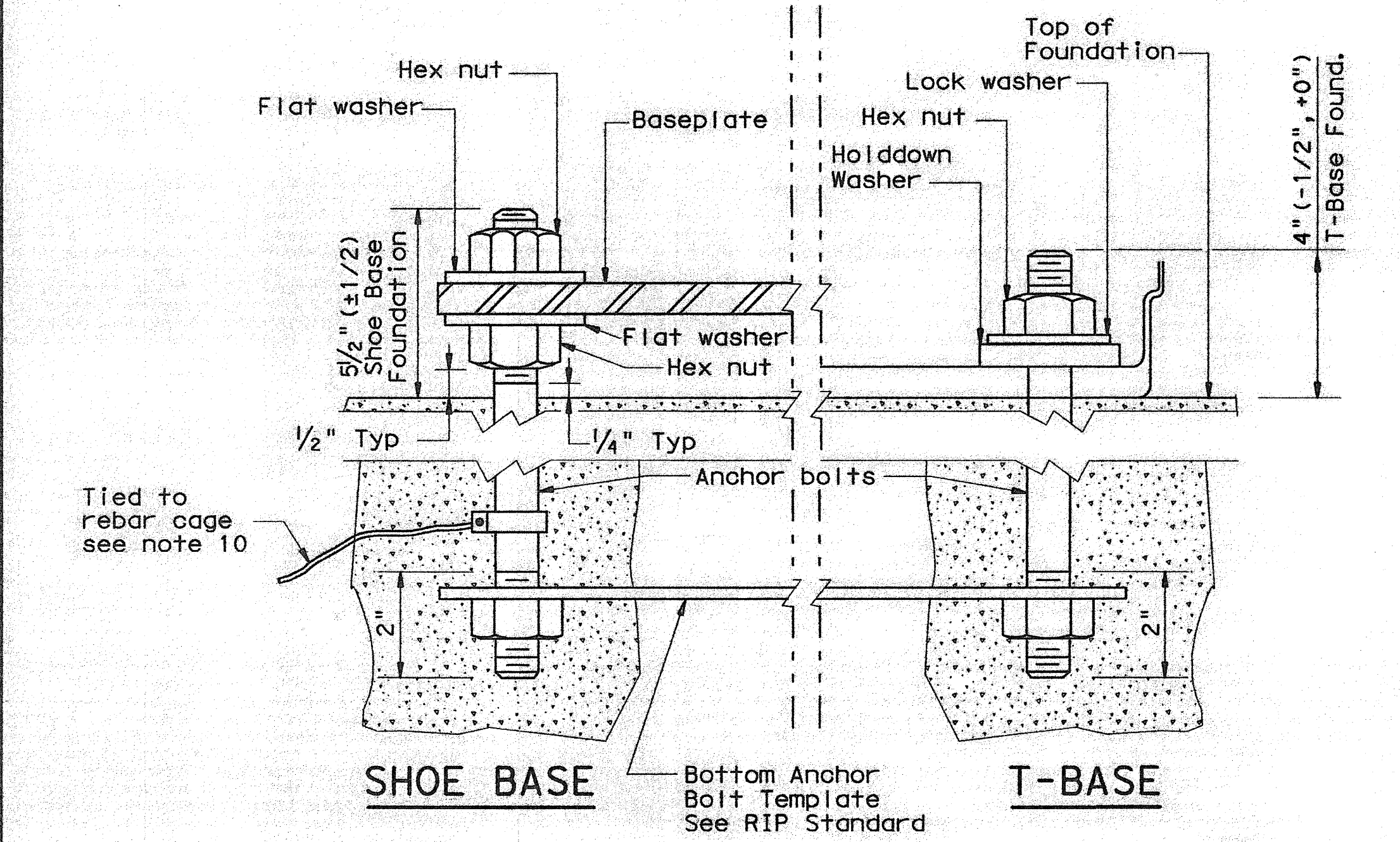
**Texas Department of Transportation**  
 Traffic Operations Division  
**ROADWAY**  
**ILLUMINATION**  
**DETAILS**  
 (RDWY ILLUM LIGHT FIXTURES)  
**RID (LUM2) -07**

© TxDOT January 2007	REV. 1	REV. 2	REV. 3	REV. 4
REVISIONS	DATE	SECT	JOB	HIGHWAY
LIST	QUANTITY		SHEET NO.	

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



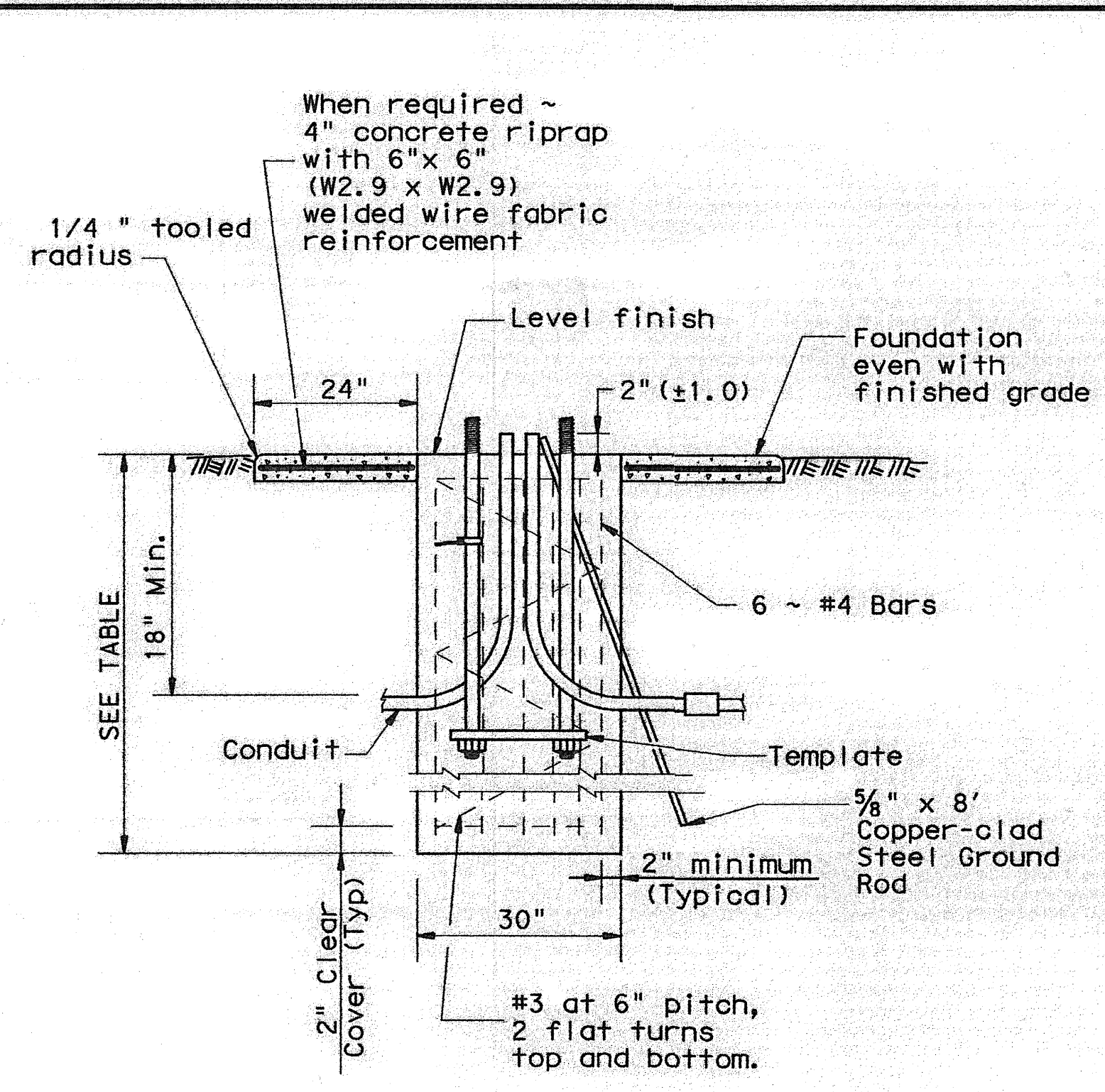
**FOUNDATION DETAIL**



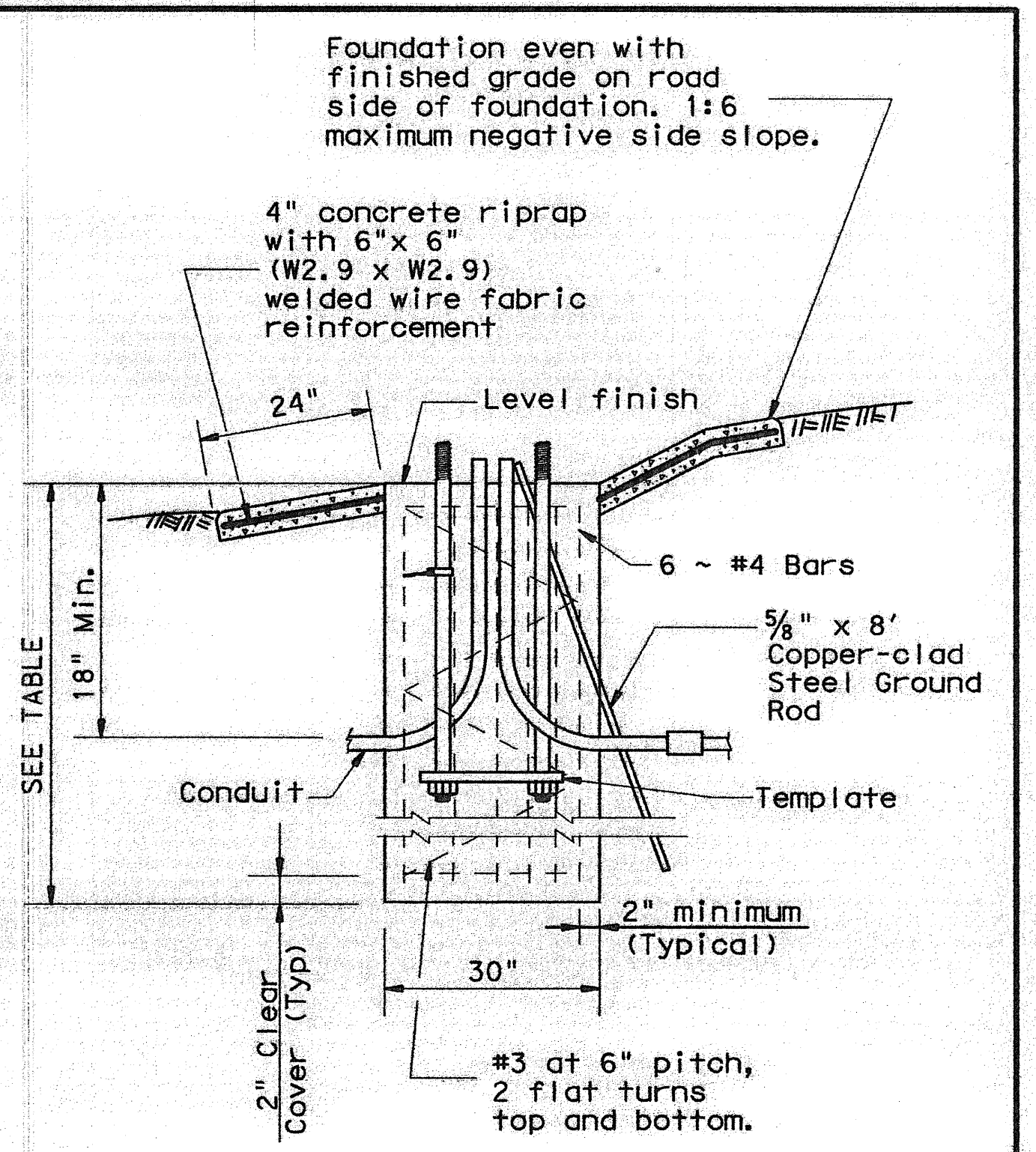
**ANCHOR BOLT DETAIL**

- "Recommended Foundation Lengths" table is for information purposes only. Foundation lengths shall be as shown on the plans, or as directed by the Engineer. Foundations will be paid for under Item 416, "Drilled Shaft Foundations," unless otherwise shown on the plans.
- Erect roadway illumination assembly poles plumb and true. Form and level the top 6" of the foundation so the pole will be plumb. Use leveling nuts to plumb shoe base poles. Do not use shims or leveling nuts under transformer bases. Do not grout between baseplate and the foundation.
- Ensure Class 2A and 2B fit for anchor bolts and nuts. Tap and chase nuts after galvanizing. Anchor bolt body with rolled threads need not be full size.
- Use appropriate class of concrete as specified in Items 416 and 432.
- Place riprap around the foundation when called for elsewhere in the plans. Riprap will be paid for under Item 432.
- Locate breakaway roadway illumination assemblies as shown in the placement table, unless otherwise dimensioned on the plans. Protect non-breakaway illumination assemblies from vehicular impact (i.e. 2 ft. behind guard rail or mounted on traffic barrier), or located outside the clear zone, except that 2.5 ft. from curb face is minimum desired for light poles on city streets, 45 mph or less, see design guidelines for further information.
- Use 8 hold down washers on transformer base poles as recommended by the manufacturer and supplied with base.
- Install a minimum of 2 conduits in each foundation. See lighting layout sheets for locations of foundations with more than 2 conduits. Cap unused conduits in foundations on both ends.
- Conduit location in foundations is critical for breakaway devices. Place conduits 2 in. apart on centerline as shown.
- Bond anchor bolt to rebar cage with #6 bare stranded copper conductor. Use listed mechanical connectors rated for embedment in concrete.
- Use rip rap on T-base foundations that are located on a sloped grades.

Conduit (See lighting layout for conduit size. Match duct cable size if used. See ED standard sheets.)



**SECTION A-A**  
SHOWING CONSTANT GRADE



**SECTION A-A**  
SHOWING SLOPED GRADE

**PAY QUANTITY OF RIPRAP PER FOUNDATION**  
(Install only when shown on the plans)

Foundation Diameter	RIPRAP DIAMETER	RIPRAP (CONC) (CL B)
30 in.	78 in.	0.35 CY

**RECOMMENDED FOUNDATION LENGTHS**  
(See note 1)

MOUNTING HEIGHT	TEXAS CONE PENETROMETER N Blows/ft		
	10	15	40
<20 ft.	6'	6'	6'
>20 ft. to 30 ft.	8'	6'	6'
>30 ft. to 40 ft.	8'	8'	6'
>40 ft. to 50 ft.	10'	8'	6'

**ANCHOR BOLTS**

POLE MOUNTING HEIGHT	BOLT CIRCLE		ANCHOR BOLT SIZE
	Shoe Base	T-Base	
<40 ft.	13 in.	14 in.	1 in. x 30 in.
40-50 ft.	15 in.	17 1/4 in.	1 1/4 in. x 30 in.

**BREAKAWAY POLE PLACEMENT (See note 6)**

Roadway Functional Classification	** Pole offset (distance to transformer base, tolerance + 6 in. -0 in.)
Freeway Mainlanes (roadway with full control of access)	15 ft. (minimum and typical) from lane edge
All curbed, 45 mph or less design speed	2.5 ft. minimum (15 ft. desirable) from curb face
All others	10 ft. minimum*(15 ft. desirable) from lane edge

\* or as close to ROW line as is practical  
 \*\* provide 2/5 of the luminaire mounting height behind the pole for "falling area" to prevent encroachment on the other travel lanes. See design guidelines.

Texas Department of Transportation  
 Traffic Operations Division  
**ROADWAY ILLUMINATION DETAILS**  
 (RDWY ILLUM FOUNDATIONS)  
**RID (FND) -07**

© TxDOT January 2007	Revisions	DATE	BY	CHKD	APP'D

DATE: FILE:



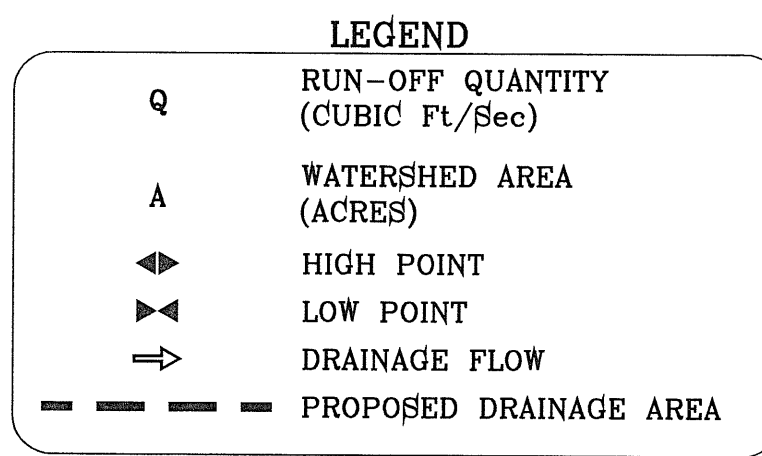
- NOTES:**
- POND DESIGN, SIDE SLOPES, BENCHING, & DRAINAGE CALCULATIONS SHALL CONFORM TO REQUIREMENTS OF "DRAINAGE DESIGN MANUAL", "DESIGN STANDARDS FOR CONSTRUCTION" AND "AMEND GRADING ORDINANCE"
  - SEE SHEET 91 AND 92 OF 112 FOR DRAINAGE STRUCTURES.
  - DEVELOPER IS RESPONSIBLE FOR MAINTENANCE OF ALL OFF-SITE DRAINAGE STRUCTURES.

**WATERSHED-PARK B**

$$QT = \frac{A R C}{12} = AC-FT$$

POND CALC.  
 $QT=ACR/12$   
 A-TOTAL RUNOFF IN ACRE FEET  
 R-RAINFALL IN INCHES  
 C-RUNOFF FACTOR

PARK =	6.95(4) 0.40	0.93 ac-ft
	12	0.93 ac-ft
SILT & DEBRIS =		0.08
Qreq (TOTAL) =		1.01
Qcap (TOTAL) =		1.15
100 YEAR HW ELEVATION =		4024.88

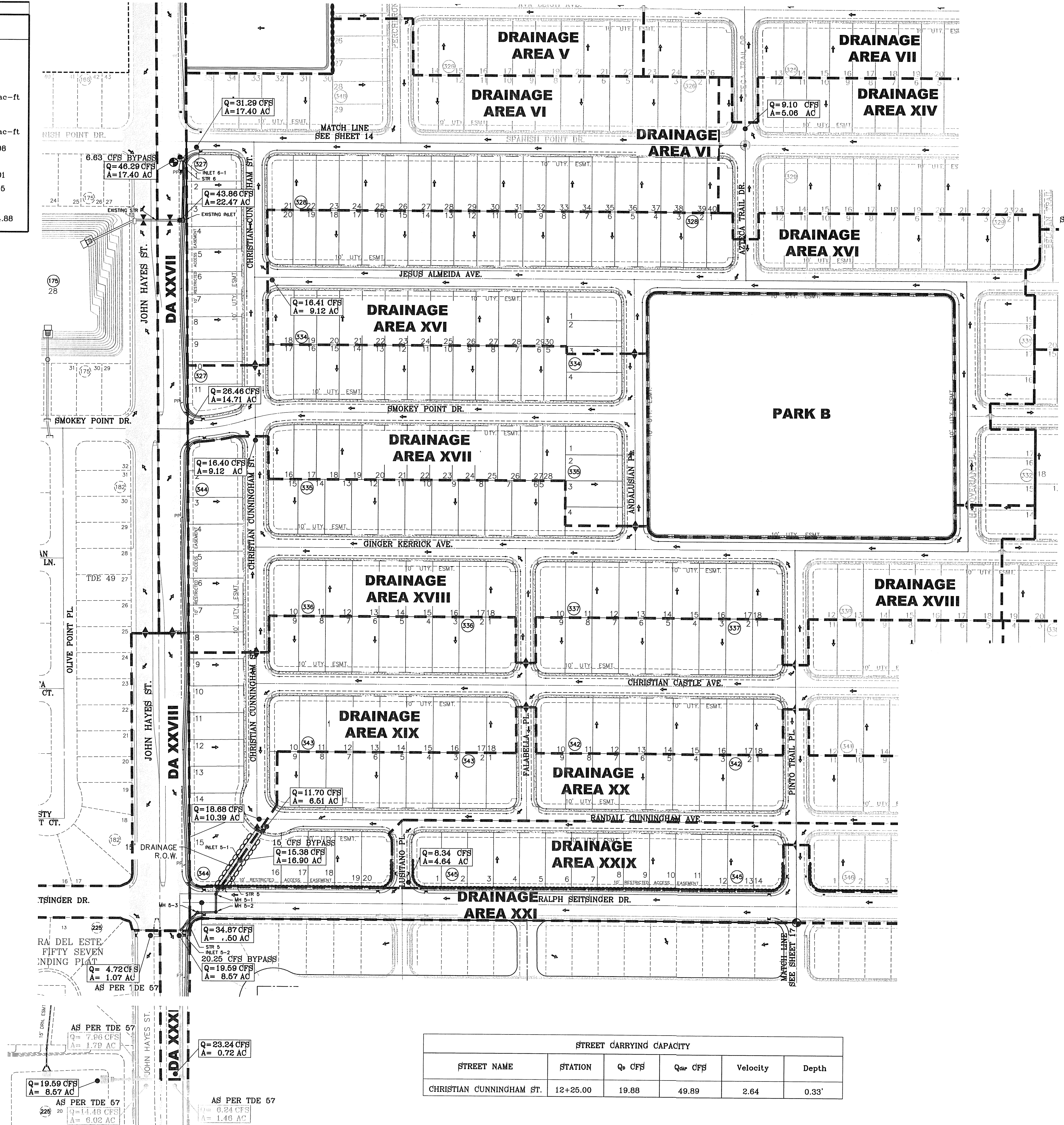


**INLET DATA**

INLET No.	INLET TYPE	No. GRATES	Qd cfs	Qc cfs
5-1	II	2	15.38	15.44
5-2	I	3	19.59	32.52
6-1	III	6	46.29	46.32
6-2	I	5	43.86	54.20

**NOTE:**  
 HEREON DESCRIBED TRACT LIES IN ZONE X, COMMUNITY PANEL NO. 480212 0176B, DATED SEPTEMBER 4, 1991.

DRAINAGE AREA	AREA (acres)	Tc (min.)	d	Io (in/hr)	Q <sub>pe</sub> CFS	Q <sub>100</sub> CFS
I	0.96	8	0.95	4.71	4.29	5.15
II	4.16	12	0.95	4.24	16.75	20.16
III	3.85	25	0.58	3.21	7.18	8.69
IV	5.74	9	0.95	4.58	24.96	29.98
V	5.34	27	0.58	3.10	9.61	11.64
VI	8.28	27	0.58	3.10	14.88	18.03
VII	10.53	27	0.58	3.10	18.93	22.94
VIII	3.24	10	0.95	4.46	13.72	16.50
IX	6.10	27	0.58	3.10	10.97	13.29
X	2.85	15	0.58	3.95	6.53	7.87
XI	4.05	23	0.58	3.34	7.84	9.49
XII	8.98	24	0.58	3.27	17.05	20.64
XIII	9.71	26	0.58	3.16	17.78	21.54
XIV	5.06	27	0.58	3.10	9.10	11.02
XV	11.00	27	0.58	3.10	19.78	23.96
XVI	9.12	27	0.58	3.10	16.41	19.88
XVII	5.80	27	0.58	3.10	10.06	12.19
XVIII	9.12	27	0.58	3.10	16.40	19.87
XIX	10.39	27	0.58	3.10	18.68	22.83
XX	6.51	27	0.58	3.10	11.70	14.18
XXI	2.86	12	0.95	4.24	11.53	13.88
XXII	11.03	27	0.58	3.10	19.83	24.02
XXIII	9.87	27	0.58	3.10	17.39	21.07
XXIV	1.87	27	0.95	3.10	5.50	6.66
XXV	4.20	11	0.95	4.35	17.34	20.86
XXVI	1.00	11	0.95	4.35	4.14	4.98
XXVII	2.60	12.5	0.90	4.60	10.76	11.80
XXVIII	2.14	11	0.90	4.90	9.44	10.07
XXIX	4.64	27	0.58	3.10	8.34	10.10
XXX	0.91	11	0.90	4.35	3.55	4.27
XXXI	0.72	10	0.90	5.00	3.24	3.47
POND	2.08			ON SITE PONDING-SEE POND CALCULATIONS		
PARK A	1.39			ON SITE PONDING-SEE PARK CALCULATIONS		
PARK B	6.95			ON SITE PONDING-SEE PARK CALCULATIONS		



**STREET CARRYING CAPACITY**

STREET NAME	STATION	Q <sub>pe</sub> CFS	Q <sub>100</sub> CFS	Velocity	Depth
CHRISTIAN CUNNINGHAM ST.	12+25.00	19.88	49.89	2.64	0.33'

SCALE: 1" = 100'

**REVISIONS**

DATE	BY	REVISIONS
10/3/11	ME	REVISIONS AS PER 9/24/11 REDLINES
11/1/11	YC	REVISIONS AS PER 10/19/11 REDLINES

**PROJECT NAME**  
 TIERRA DEL ESTE UNIT SIXTY SEVEN

**BENCHMARK**  
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

**BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 186.284± ACRES**

**ENGINEER'S SEAL**

DATE: MAY 2012  
 DESIGN BY: ME  
 INITIATED BY: BROMOM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

**CONDE INC.**  
 ENGINEERING / PLANNING SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 582-0283  
 FAX: (915) 582-0286

**CONDE INC.**  
 REGISTRATION No. F-3321

**SHEET TITLE**  
 DRAINAGE PLAN

**SHT 16 OF 112**

- NOTES:
- POND DESIGN, SIDE SLOPES, BENCHING, & DRAINAGE CALCULATIONS SHALL CONFORM TO REQUIREMENTS OF "DRAINAGE DESIGN MANUAL", "DESIGN STANDARDS FOR CONSTRUCTION" AND "AMEND GRADING ORDINANCE"
  - SEE SHEET 91 AND 92 OF 112 FOR DRAINAGE STRUCTURES.
  - DEVELOPER IS RESPONSIBLE FOR MAINTENANCE OF ALL OFF-SITE DRAINAGE STRUCTURES.

LEGEND

- Q RUN-OFF QUANTITY (CUBIC Ft./Sec)
- A WATERSHED AREA (ACRES)
- ▲ HIGH POINT
- ▼ LOW POINT
- DRAINAGE FLOW
- - - PROPOSED DRAINAGE AREA

WATERSHED-TEMPORARY SHALLOW POND

$$Q_T = \frac{A \cdot R \cdot C}{12} = AC-FT$$

POND CALC.  
 QT=ACR/12  
 A=TOTAL RUNOFF IN ACRE FEET  
 R=RAINFALL IN INCHES  
 C=RUNOFF FACTOR

RESIDENTIAL= & POND	40.69(4) 0.60	8.14 ac-ft
	12	
FUT. COMM=	5.15(4) 0.90	1.54 ac-ft
	12	
		9.68 ac-ft
SILT & DEBRIS =		0.55
Qreq (TOTAL) =		10.23
Qcap (TOTAL) =		18.15
100 YEAR HW ELEVATION =		4013.22
100 YEAR PONDED DEPTH =		4013.48

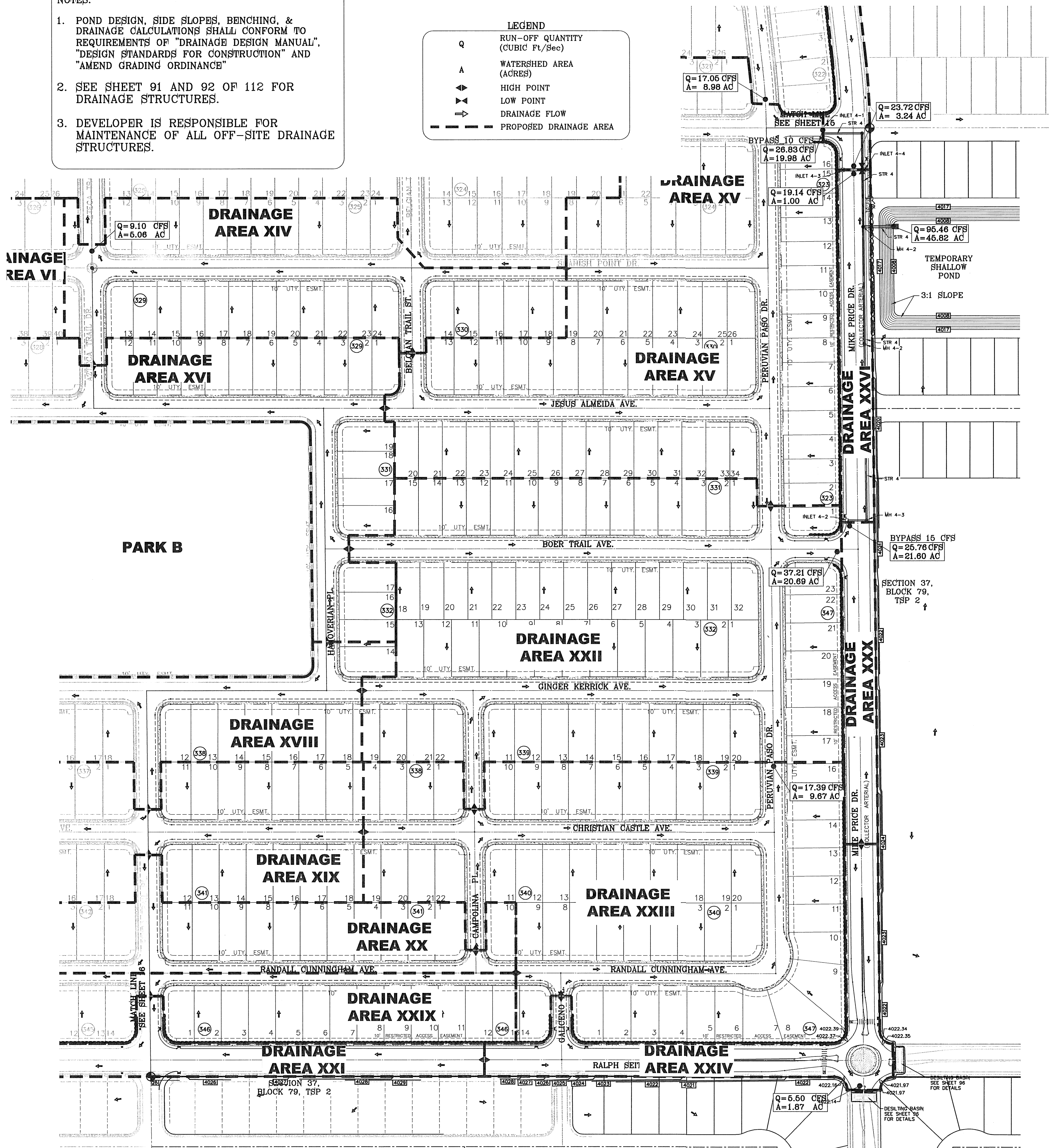
NOTE:  
 HEREON DESCRIBED TRACT LIES IN ZONE X, COMMUNITY PANEL NO. 480212 0176B, DATED SEPTEMBER 4, 1991.

SEE SHEET 91 AND 92 OF 112 FOR DRAINAGE STRUCTURES.

INLET DATA

INLET No.	INLET TYPE	No. GRATES	Qd cfs	Qc cfs
4-1	II	12	26.83	130.8
4-2	I	3	25.76	32.52
4-3	I	3	21.43	32.52
4-4	I	3	21.43	32.52

DRAINAGE AREA	AREA (acres)	TC (min.)	d	l <sub>50</sub> (in/hr)	Q <sub>50</sub> CFS	Q <sub>100</sub> CFS
I	0.96	8	0.95	4.71	4.29	5.15
II	4.16	12	0.95	4.24	16.75	20.16
III	3.85	25	0.58	3.21	7.18	8.69
IV	5.74	9	0.95	4.58	24.96	29.98
V	5.34	27	0.58	3.10	9.61	11.64
VI	8.28	27	0.58	3.10	14.88	18.03
VII	10.53	27	0.58	3.10	18.93	22.94
VIII	3.24	10	0.95	4.46	13.72	16.50
IX	6.10	27	0.58	3.10	10.97	13.29
X	2.85	15	0.58	3.95	6.53	7.87
XI	4.05	23	0.58	3.34	7.84	9.49
XII	8.98	24	0.58	3.27	17.05	20.64
XIII	9.71	26	0.58	3.16	17.78	21.54
XIV	5.06	27	0.58	3.10	9.10	11.02
XV	11.00	27	0.58	3.10	19.78	23.96
XVI	9.12	27	0.58	3.10	16.41	19.88
XVII	5.60	27	0.58	3.10	10.06	12.19
XVIII	9.12	27	0.58	3.10	16.40	19.87
XIX	10.39	27	0.58	3.10	18.68	22.63
XX	6.51	27	0.58	3.10	11.70	14.18
XXI	2.86	12	0.95	4.24	11.53	13.88
XXII	11.03	27	0.58	3.10	19.83	24.02
XXIII	9.67	27	0.58	3.10	17.39	21.07
XXIV	1.87	27	0.95	3.10	5.50	6.86
XXV	4.20	11	0.95	4.35	17.34	20.86
XXVI	1.00	11	0.95	4.35	4.14	4.98
XXVII	2.60	12.5	0.90	4.60	10.76	11.80
XXVIII	2.14	11	0.90	4.90	9.44	10.07
XXIX	4.64	27	0.58	3.10	8.34	10.10
XXX	0.91	11	0.90	4.35	3.55	4.27
XXXI	0.72	10	0.90	5.00	3.24	3.47
POND	2.08					ON SITE PONDING-SEE POND CALCULATIONS
PARK A	1.39					ON SITE PONDING-SEE PARK CALCULATIONS
PARK B	6.95					ON SITE PONDING-SEE PARK CALCULATIONS



PROJECT NAME: TIERRA DEL ESTE UNIT SIXTY SEVEN

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE: 10/3/11  
 REVISIONS AS PER 8/24/11 REDLINES  
 11/1/11 REVISIONS AS PER 10/19/11 REDLINES

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

SCALE: 1" = 100'

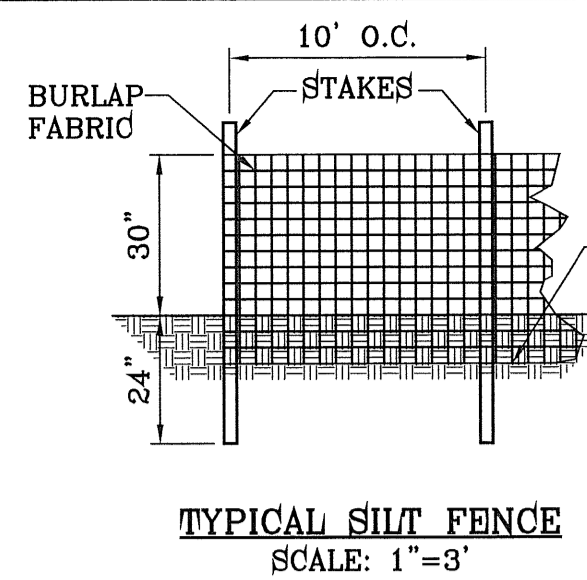
ENGINEER'S SEAL: CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURETY DR. STE. 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286

DESIGN BY: [Signature]  
 INITIATED BY: [Signature]  
 CHECKED BY: [Signature]  
 JOB NO.: 1110-18

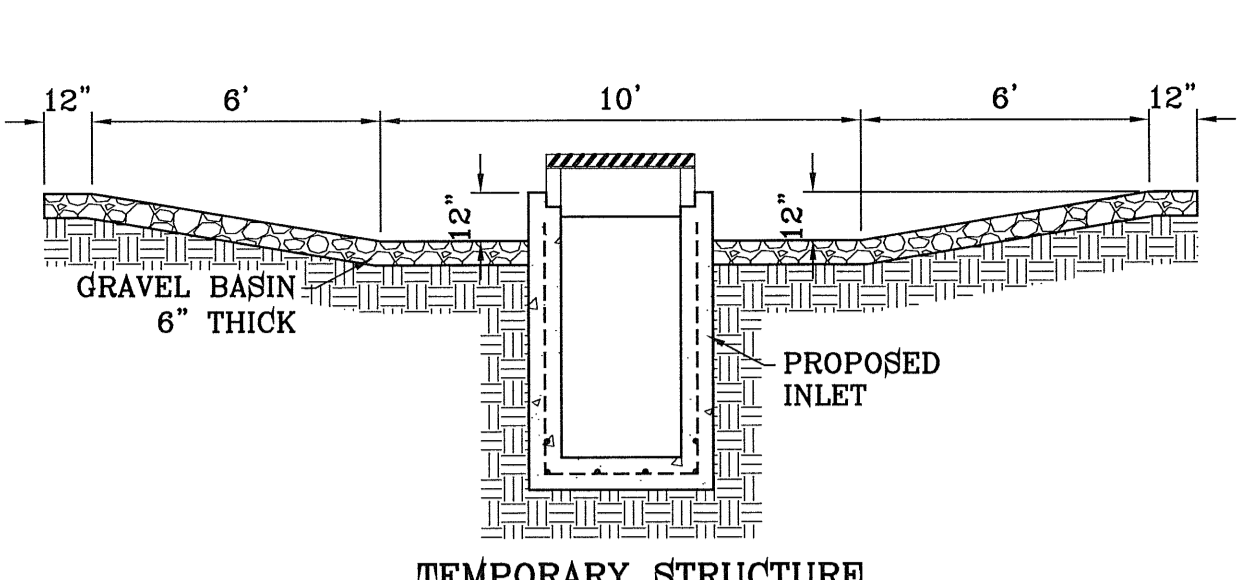
CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURETY DR. STE. 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286

SHEET TITLE: DRAINAGE PLAN

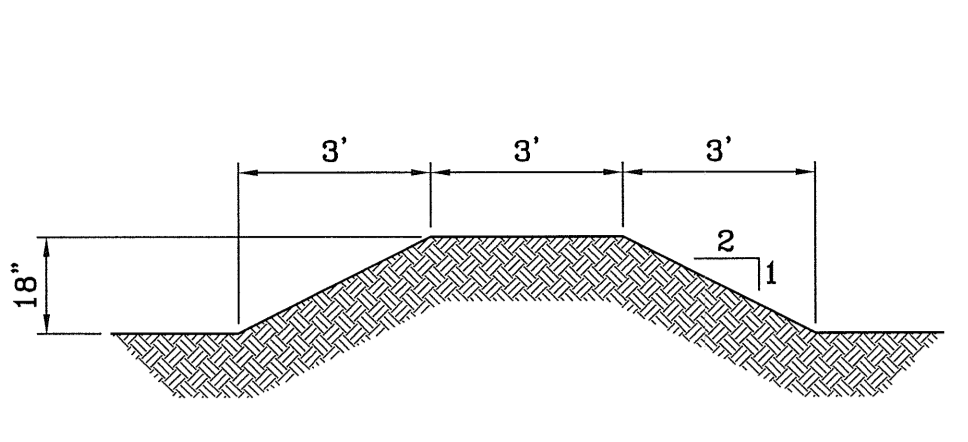
SHT 17 OF 112



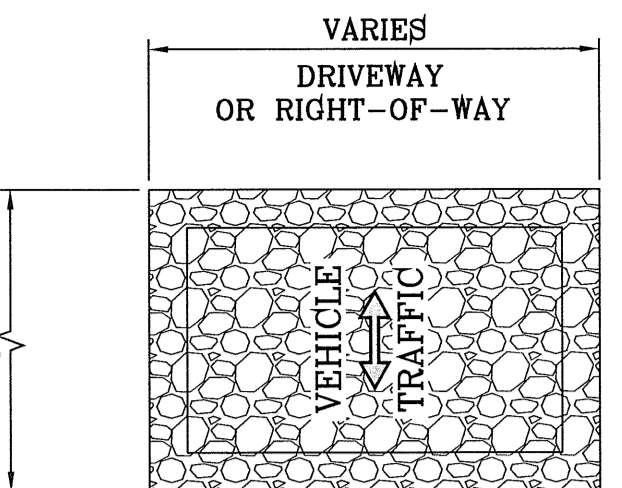
**TYPICAL SILT FENCE**  
SCALE: 1"=3'



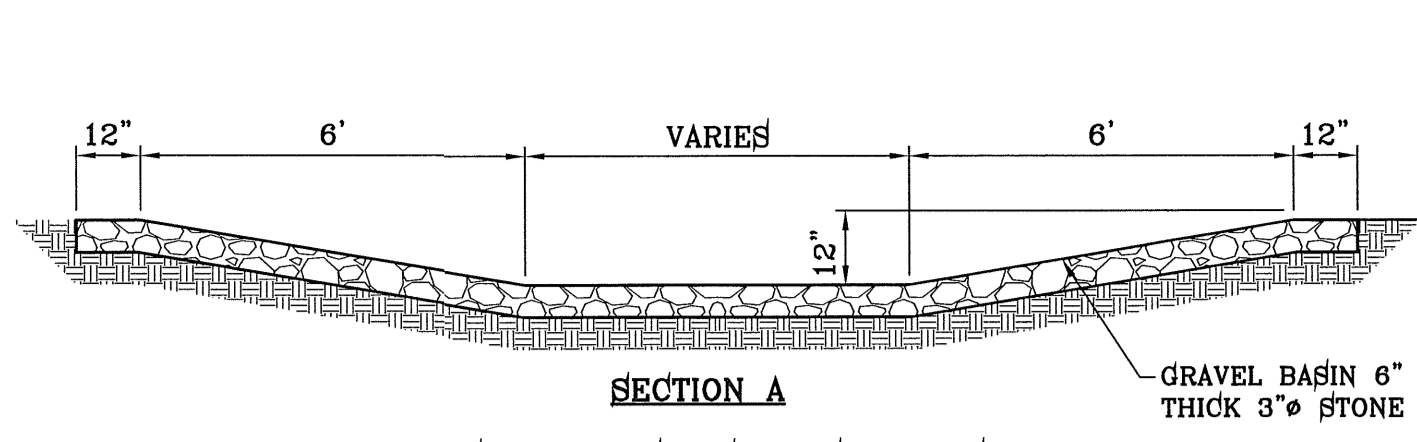
**TEMPORARY STRUCTURE DESILTING BASIN**  
SCALE: 1"=4'



**TYPICAL BERM**  
SCALE: 1"=3'



**GRAVEL ENTRANCE**  
SCALE: 1"=3'



**SECTION A EROSION AND SEDIMENT CONTROLS TEMPORARY STABILIZATION**  
SCALE: 1"=3'

**STABILIZED ENTRANCE EROSION CONTROL NOTES**

1. SILT FENCING OR TEMPORARY BERMS SHALL BE INSTALLED AT TIME OF CONSTRUCTION.
2. TEMPORARY SWALES AND DESILTING BASINS WILL BE PLACED WHERE NECESSARY IN ORDER TO CONVEY STORM WATER RUN-OFF.
3. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED WEEKLY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE.
4. THE OWNER SHALL BE RESPONSIBLE FOR INSURING THAT ALL EROSION CONTROL METHODS ARE INSPECTED ON A MONTHLY BASIS OR AFTER EVERY ERODIBLE RAINFALL (1/2" OR MORE). ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL SHALL BE MADE AT THE TIME.
5. A TEMPORARY BERM SHALL BE PROVIDED AT THE TOE OF SLOPE AND LOT LINE AT TIME OF GRADING PRIOR TO ROCKWALL CONSTRUCTION.
6. SILT FENCE TO BE INSTALLED AND MAINTAINED ALONG THE PERIMETER OF THE PARK SITE UNTIL ALL ABUTTING RESIDENCES ARE DEVELOPED.

**NOTE:**  
HEREON DESCRIBED TRACT LIES IN ZONE X, COMMUNITY PANEL NO. 480212 017619, DATED SEPTEMBER 4, 1991.

SEE SHEET 91 AND 92 OF 112 FOR DRAINAGE STRUCTURES.

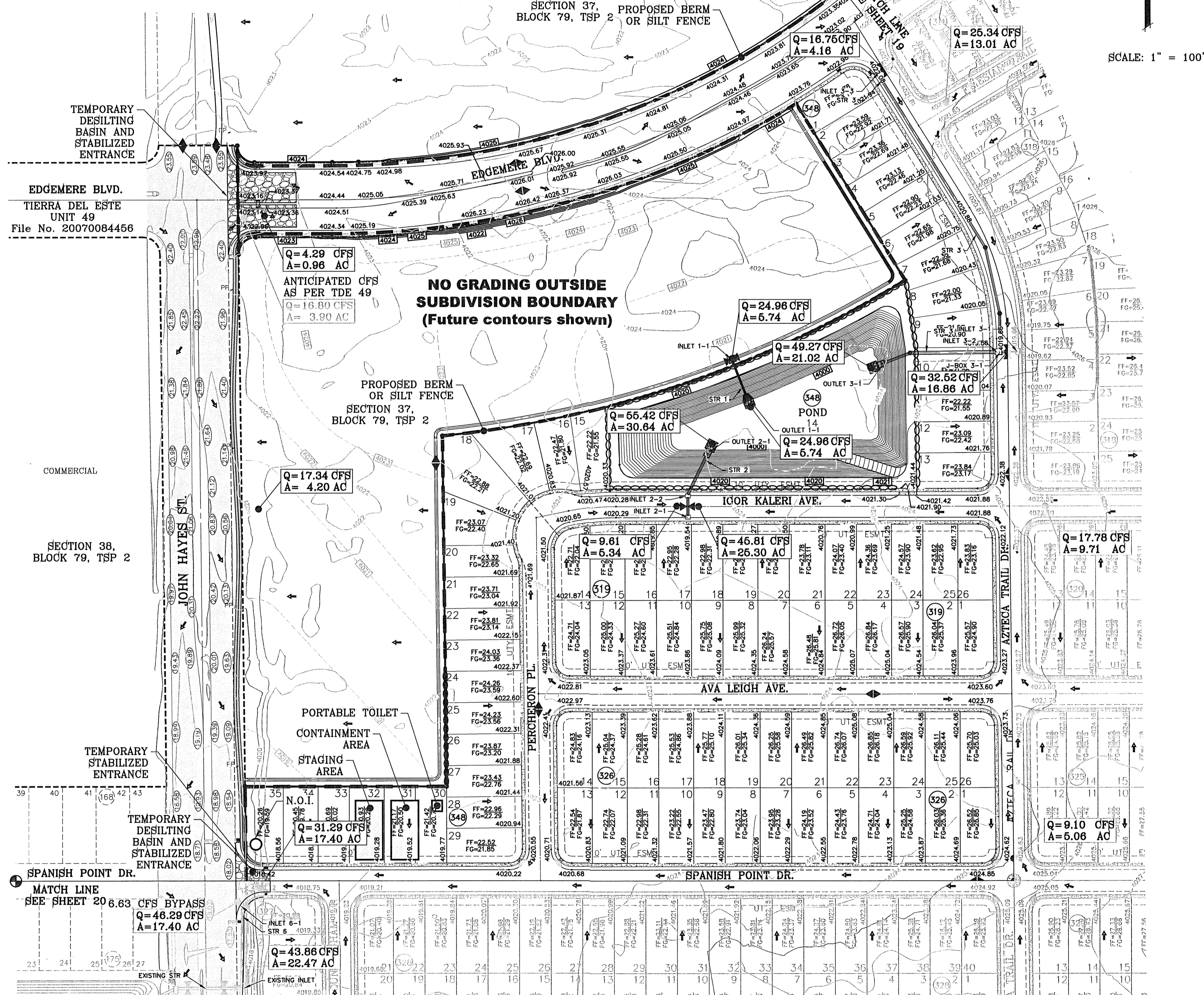
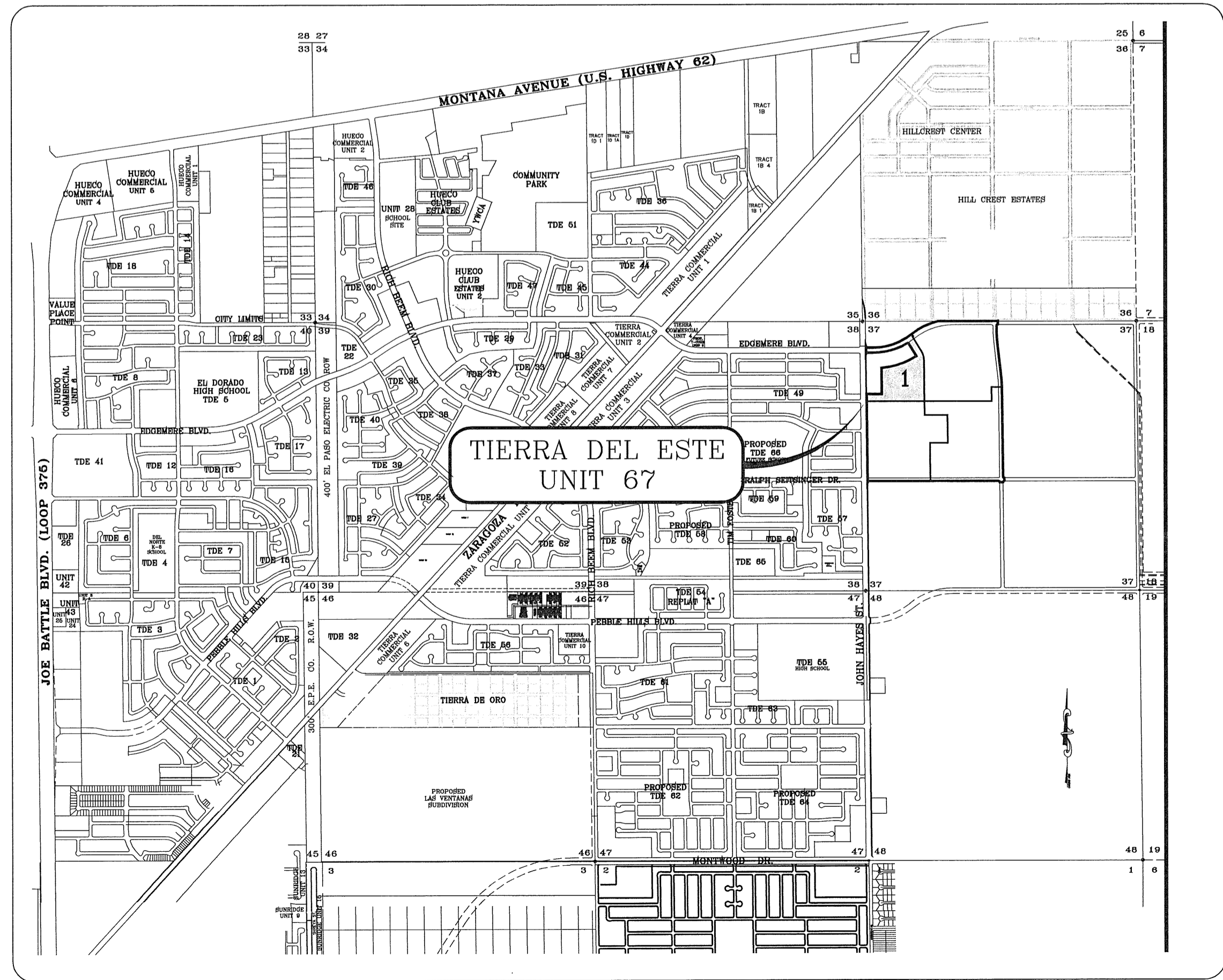
**LEGEND**

FF=####	PROPOSED FINISH GROUND AND FINISH FLOOR
FG=XX.XX	PROPOSED SPOT ELEVATION
00.00	HIGH POINT
◆	LOW POINT
—4000—	EXISTING CONTOUR
- - -4000-	EXISTING SPOT ELEVATION
- - - - -	PROPOSED CONTOUR
⊖	PROPOSED ROCK WALL
⊖	PROPOSED RETAINING WALL
⊖	PROPOSED SILT FENCE
Q	RUN-OFF QUANTITY (CUBIC Ft./Sec)
A	WATERSHED AREA (ACRES)
→	DRAINAGE FLOW

**CONSTRUCTION ACTIVITY REQUIREMENTS:**

1. NO ON-SITE PROCESSING OF MATERIAL FOR COMMERCIAL OR RETAIL SALES SHALL BE ALLOWED. ON-SITE PROCESSING OF MATERIALS TO BE USED FOR PREPARATION OR CONSTRUCTION OF IMPROVEMENTS WITHIN THE SITE COVERED BY THE GRADING PERMIT SHALL BE ALLOWED.
2. WORK SHALL BE CONDUCTED IN MANNER THAT PRESERVES AND DOES NOT OBSTRUCT, IMPEDE OR INTERFERE WITH THE FLOW OF STORM WATER IN NATURAL DRAINAGE WAYS, UNIMPROVED CHANNELS OR WATERCOURSES, OR IMPROVED DITCHES, CHANNELS OR CANALS IN SUCH A MANNER AS TO CAUSE FLOODING WHERE IT WOULD NOT OTHERWISE OCCUR
3. CONSTRUCTION EQUIPMENT AND FENCING SHALL BE KEPT OUT OF WATERCOURSES EXCEPT WHEN NECESSARY TO PERFORM WORK ON THE APPROVED PLANS. ADEQUATE BY PASS MEASURES SHALL BE INSTALLED WHERE TEMPORARY DRAINAGE BLOCKAGES WILL OCCUR. WHERE WORK WITHIN A CHANNEL IS DESIGNATED ON APPROVED PLANS, PRECAUTIONS SHALL BE TAKEN TO STABILIZE THE WORK AREA DURING CONSTRUCTION TO MINIMIZE EROSION. THE CHANNEL, INCLUDING BED AND BANKS, SHALL ALWAYS BE RESTORED/RE-STABILIZED IMMEDIATELY AFTER IN CHANNEL WORK IS COMPLETED.
4. WHERE A DRAINAGE WAY WILL BE CROSSED BY CONSTRUCTION VEHICLES REGULARLY DURING CONSTRUCTION, A TEMPORARY CROSSING SHALL BE CONSTRUCTED.
5. MATERIAL STOCKPILING SHALL NOT BE ALLOWED WHEN GRADING OPERATIONS ARE IDLE FOR MORE THAN SEVEN CONSECUTIVE CALENDAR DAYS. STOCKPILING SHALL BE LIMITED TO TEN FEET HIGH WHEN GRADING OPERATIONS ARE BEING CONDUCTED.
6. TRAFFIC CONTROL PERMIT AND/OR FLAGMEN MAY BE REQUIRED AS PART OF THE GRADING PERMIT.
7. ANY USE OF VIBRATORY EQUIPMENT SHALL BE APPROVED IN WRITING BY THE DIRECTOR IN ADVANCE OF SUCH USE

**LOCATION MAP SCALE: 1"=1000'**



**GRADING STABILIZATION PLAN**

1. ALL AREAS WITHIN THE PLAT BOUNDARY TO BE DISTURBED
2. GRADING OPERATION SEQUENCING/SCHEDULE:
  - a. THE SITE WILL BE GRADED
  - b. THE UTILITIES WILL BE PLACED
  - c. THE ROADWAYS WILL BE CONSTRUCTED
  - d. THE POND WILL BE CONSTRUCTED
  - e. THE LOTS WILL BE TURNED OVER TO BUILDER TO CONSTRUCT HOMES ON THE GRADED LOTS
3. ALL TEMPORARY EROSION CONTROL MEASURES WILL BE MAINTAINED AND KEPT IN PLACE THE ENTIRE PROJECT.
4. NO INTERIM STABILIZATION MEASURES WILL BE REQUIRED FOR THIS PROJECT.
5. STABILIZATION MEASURE FOR LOT 4, BLOCK 4 (POND) TO BE HYDROMULCH SLOPES  
DESIGN: ROUGHEN SLOPES.  
MIX: 65-85 lbs WOOD MULCH/1000 s.f.  
SEED: BUFFALO GRASS SEED @ 25 lbs/1000 s.f.  
WATER: 30-35 lbs OF MULCH PER 100 GALLONS OF WATER. WATER SLOPE THEN APPLY HYDROMULCH. TEMPORARY IRRIGATION AND WATER SLOPES TWICE PER WEEK UNTIL VEGETATION IS ESTABLISHED.

- NOTES:**
1. T.P.D.E.S. PERMIT- AS REQUIRED BY CONTRACTOR
  2. STORM WATER AS PER N.P.D.E.S. PERMIT

POND DESIGN, SIDE SLOPES, BENCHING, & DRAINAGE CALCULATIONS SHALL CONFORM TO REQUIREMENTS OF "DRAINAGE DESIGN MANUAL", "DESIGN STANDARDS FOR CONSTRUCTION" AND "AMEND GRADING ORDINANCE"

**TIERRA DEL ESTE UNIT SIXTY SEVEN**

**REVISIONS**

DATE	REVISIONS	BY	O.M.
10/3/11	REVISIONS AS PER 8/24/11 REDLINES		O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES		O.M.

**PROJECT NAME**  
TIERRA DEL ESTE UNIT SIXTY SEVEN

**SCALE**  
HORIZ: 1" = 100'  
VERT: ---

**DATE:** MAY 2012  
**DESIGN BY:** MZ  
**INITIATED BY:** BTROM  
**CHECKED BY:** YC  
**JOB NO.:** 1110-18

**ENGINEER'S SEAL**

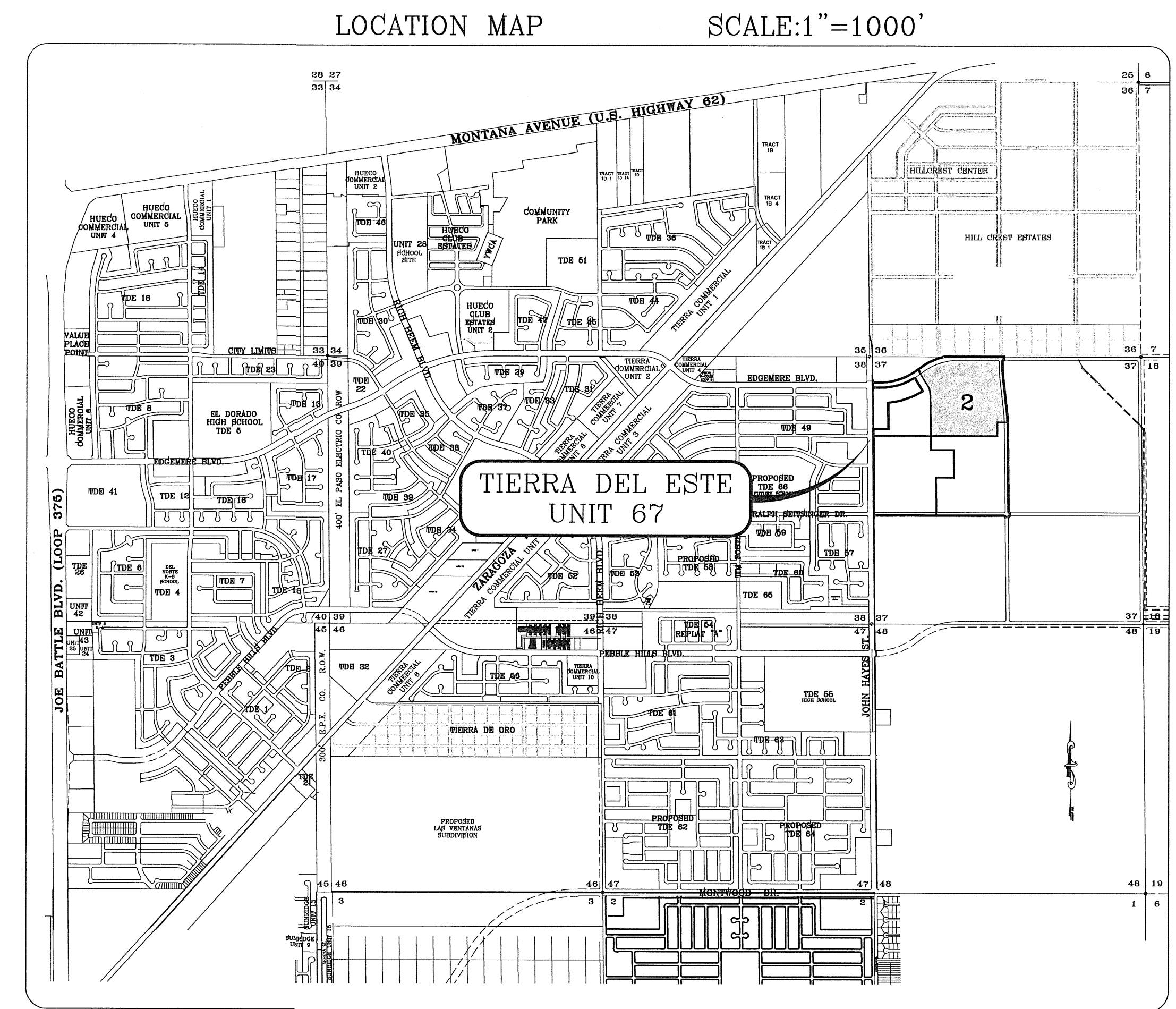
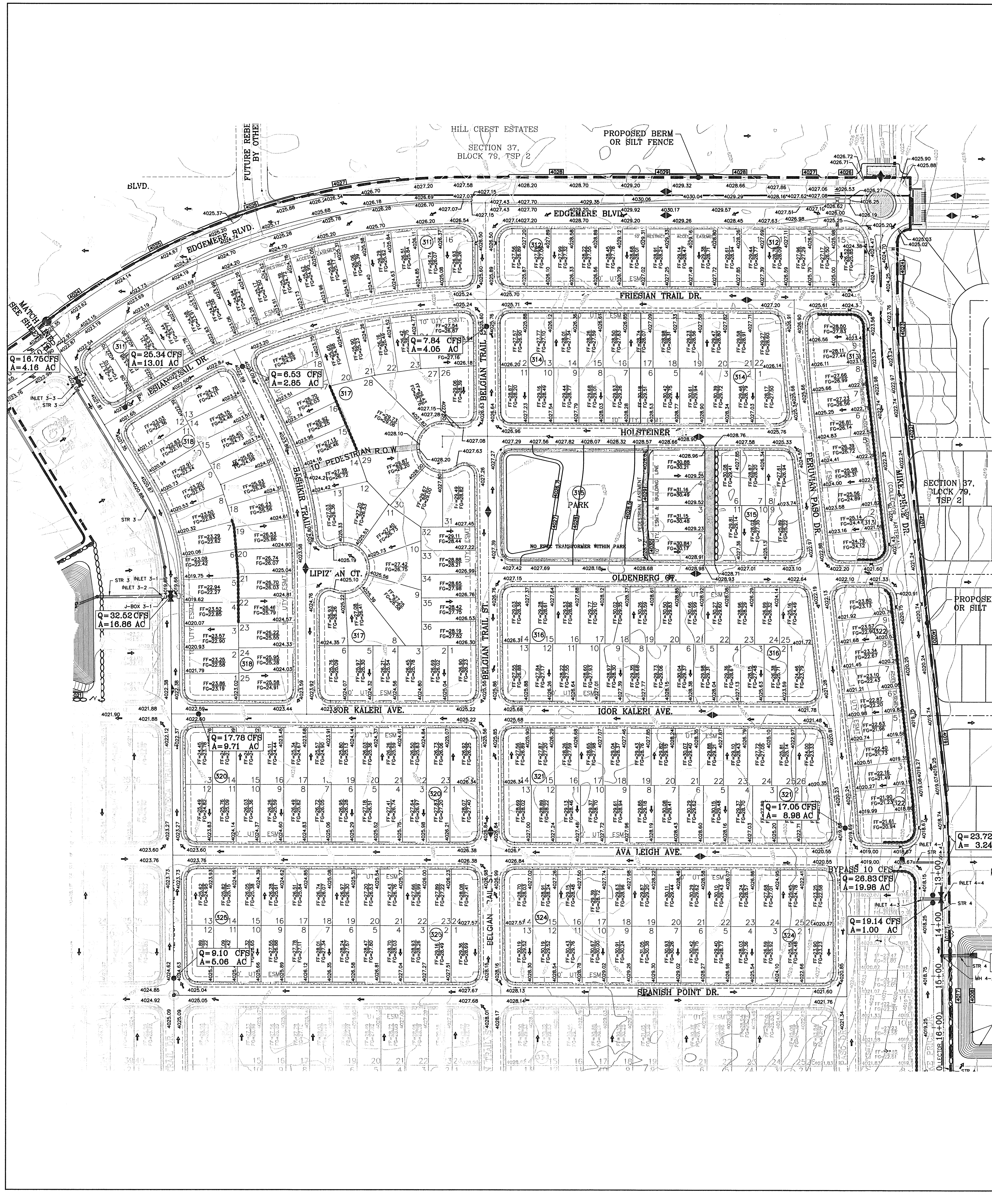
**CONDE INC.**  
ENGINEERING / PLANNING / SURVEYING / GPS  
6080 SURETY DR. STE. 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**CONDE INC.**  
REGISTRATION No. F-2521

**SHEET TITLE**  
GRADING STABILIZATION AND STORM WATER POLLUTION PREVENTION PLAN

**SHT 18 OF 112**





**LEGEND**

FF=0.67	PROPOSED FINISH GROUND AND FINISH FLOOR
FG=00.00	PROPOSED SPOT ELEVATION
00.00	PROPOSED SPOT ELEVATION
▲	HIGH POINT
▼	LOW POINT
— 4000 —	EXISTING CONTOUR
— 4000 —	EXISTING SPOT ELEVATION
—	PROPOSED CONTOUR
—	PROPOSED ROCK WALL
—	PROPOSED RETAINING WALL
—	PROPOSED SILT FENCE
Q	RUN-OFF QUANTITY (CUBIC Ft/Sec)
A	WATERSHED AREA (ACRES)
→	DRAINAGE FLOW

**NOTE:**  
HEREON DESCRIBED TRACT LIES IN ZONE X, COMMUNITY PANEL NO. 480212 0175B. DATED SEPTEMBER 4, 1991.

SEE SHEET 91 AND 92 OF 112 FOR DRAINAGE STRUCTURES.

- NOTES:**
1. T.P.D.E.S. PERMIT- AS REQUIRED BY CONTRACTOR
  2. STORM WATER AS PER N.P.D.E.S. PERMIT

SCALE: 1" = 100'

**BENCHMARK**

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.  
ELEVATION 4017.47

DATE	REVISIONS	BY
10/9/11	REVISIONS AS PER 8/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.

**PROJECT NAME**  
TIERRA DEL ESTE UNIT SIXTY SEVEN

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CITY CONTAINING: 166.254± ACRES

**SCALE**  
HORIZ: 1" = 100'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: JEF  
INITIATED BY: EP/OMM  
CHECKED BY: YC  
JOB NO.: 1110-18

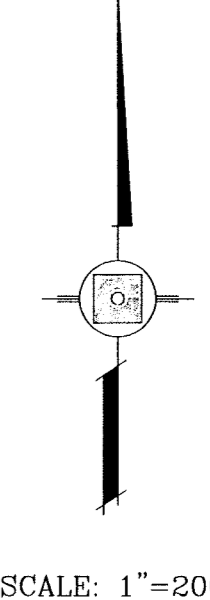
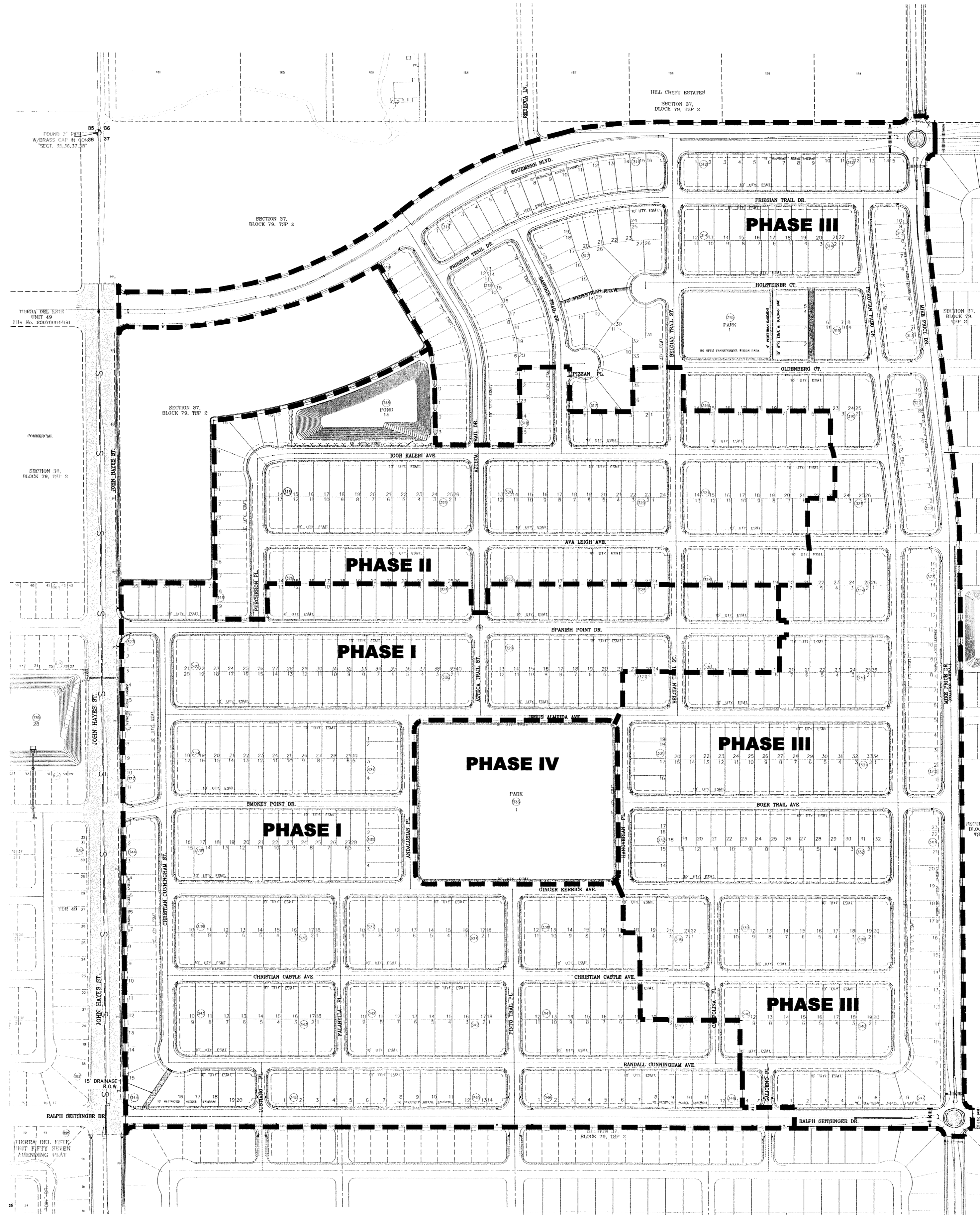
**ENGINEER'S SEAL**

CONDE INC.  
ENGINEERING / PLANNING / SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0393  
FAX: (915) 592-0286

**CONDE INC.**  
REGISTRATION No. F-2321

**SHEET TITLE**  
GRADING STABILIZATION AND STORM WATER POLLUTION PLAN

**SHT 19 OF 112**



BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF  
JOHN HAYES ST. AND SPANISH POINT LN.  
ELEVATION 4017.47

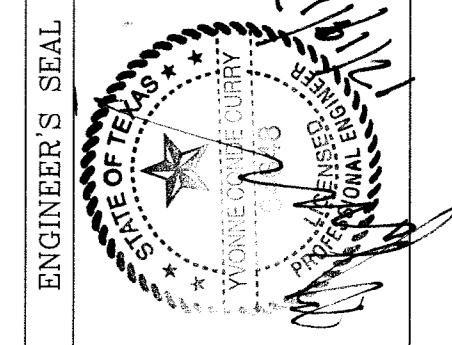
DATE	REVISIONS	BY
10/3/11	REVISIONS AS PER 8/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.
03/12/12	REVISIONS AS PER 03/12/12	R.R.
04/02/12	ADDITION OF PHASE INFORMATION	R.R.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2,  
TEXAS AND PACIFIC RAILWAY CO. SURVEYS,  
CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 166.254± ACRES

SCALE  
HORIZ: 1"=200'  
VERT: -- --

DATE: MAY 2012  
DESIGN BY: MB  
INITIATED BY: EPOWOW  
CHECKED BY: YC  
JOB NO.: 1110-18



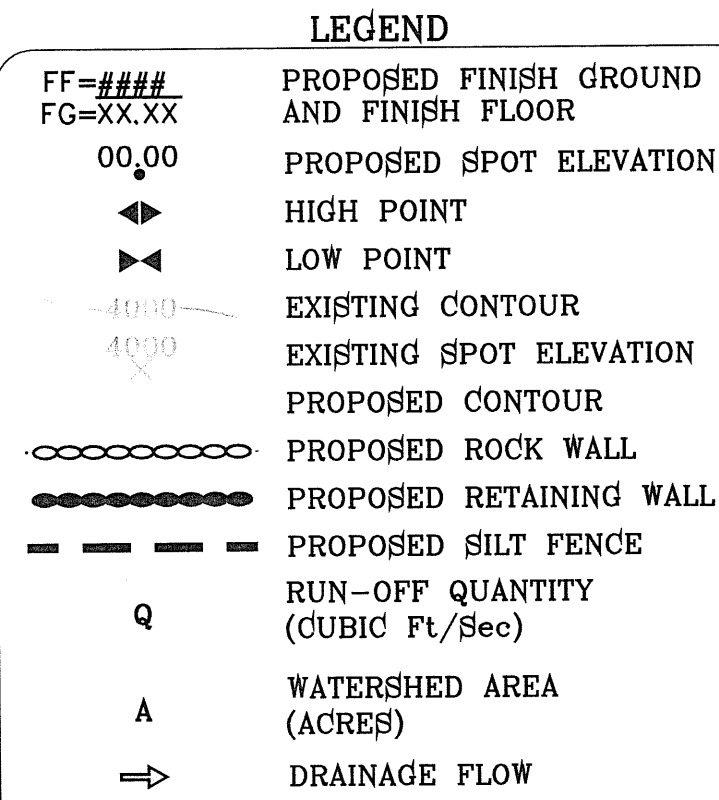
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6090 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



SHEET TITLE  
**PHASE PLAN**

SHT 1 OF 1

- NOTES:**
1. T.P.D.E.S. PERMIT- AS REQUIRED BY CONTRACTOR
  2. STORM WATER AS PER N.P.D.E.S. PERMIT

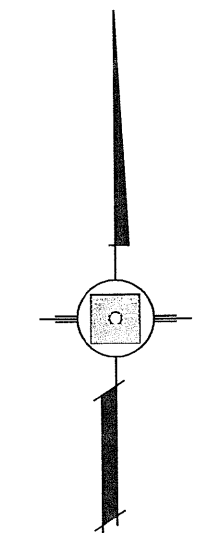
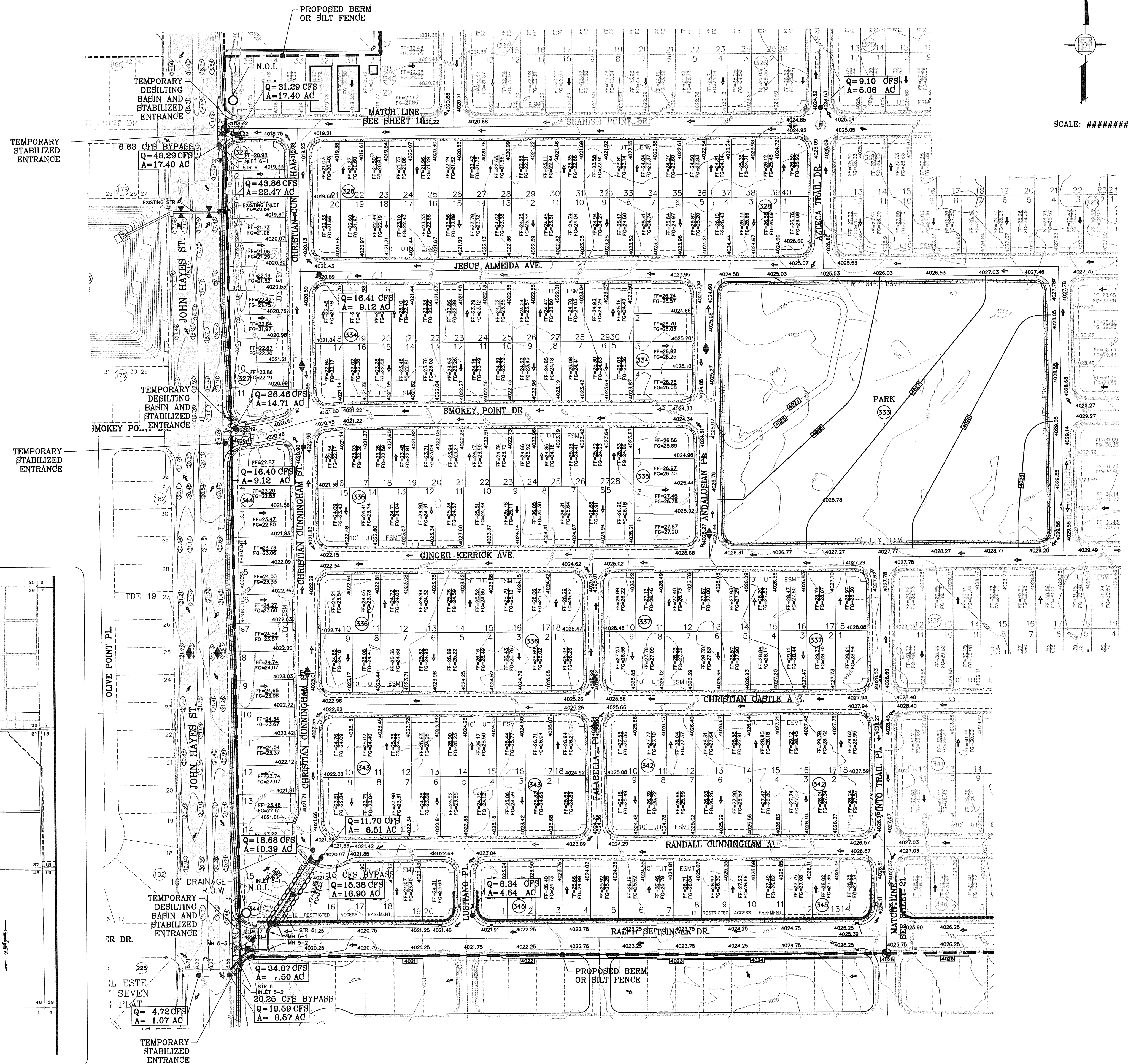
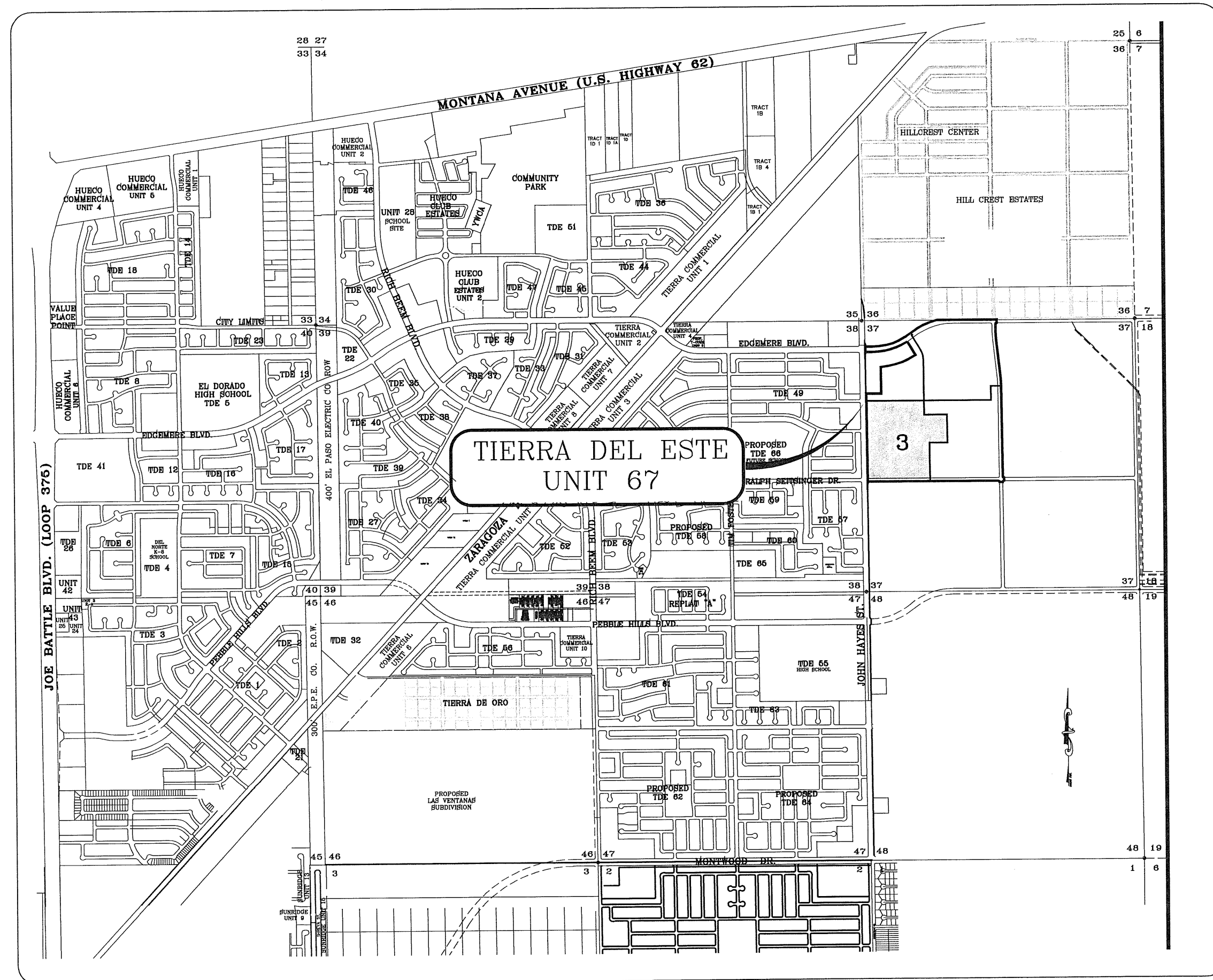


**NOTE:**  
HEREON DESCRIBED TRACT LIES IN ZONE X COMMUNITY PANEL NO. 480212 0175B. DATED SEPTEMBER 4, 1991.

SEE SHEET 91 AND 92 OF 112 FOR DRAINAGE STRUCTURES.

LOCATION MAP

SCALE: 1"=1000'



**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 76, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.204± ACRES

DESIGN BY: **ME**  
INITIATED BY: **BRONKH**  
CHECKED BY: **YC**  
JOB NO.: 1110-18










**CONDE INC.**  
ENGINEERING / PLANNING / SURVEYING / GPS  
6080 SURETY DR STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0266

SHEET TITLE  
**GRADING STABILIZATION AND STORM WATER POLLUTION PREVENTION PLAN**

SHT 20 OF 112

- NOTES:**
1. T.P.D.E.S. PERMIT- AS REQUIRED BY CONTRACTOR
  2. STORM WATER AS PER N.P.D.E.S. PERMIT

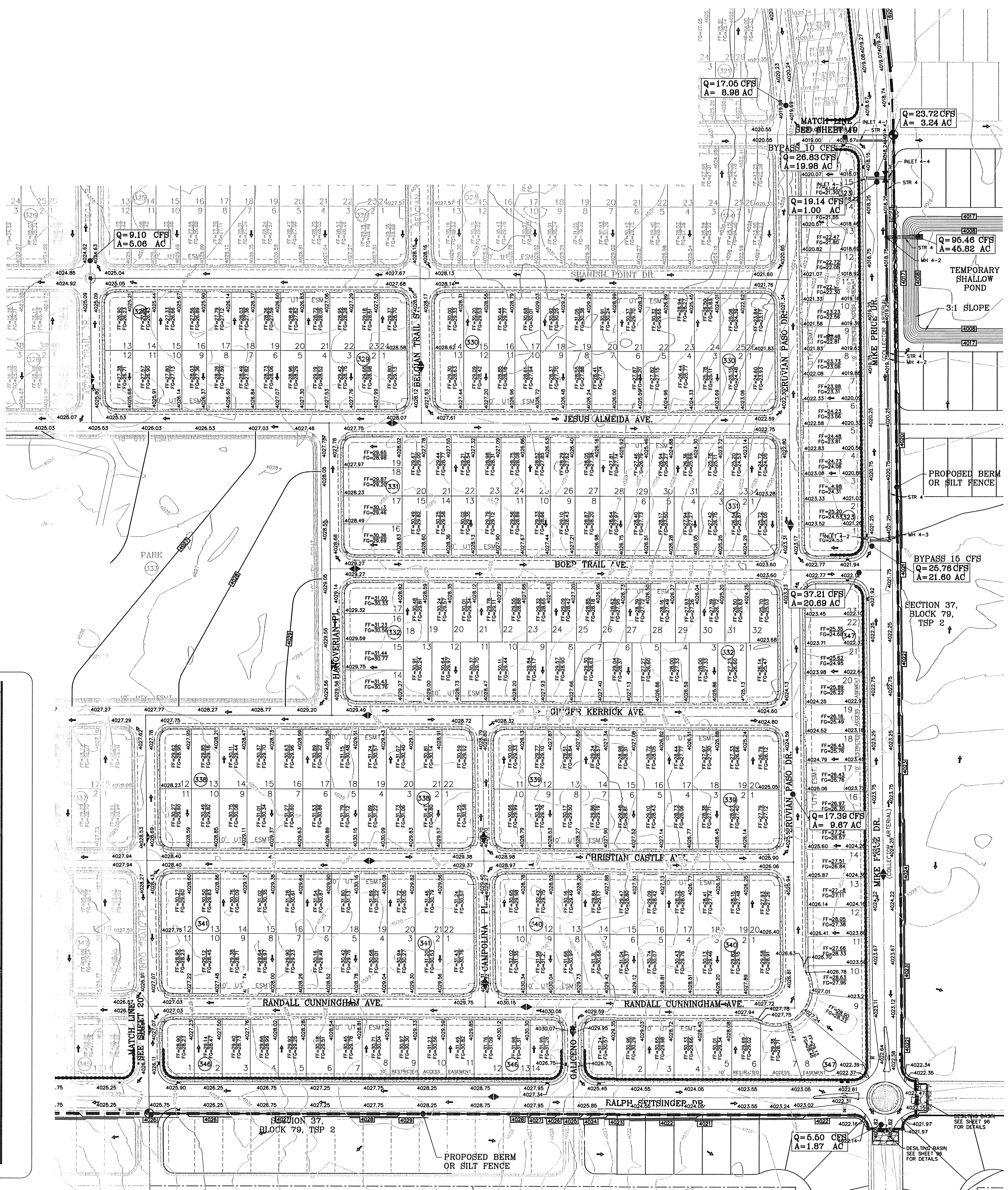
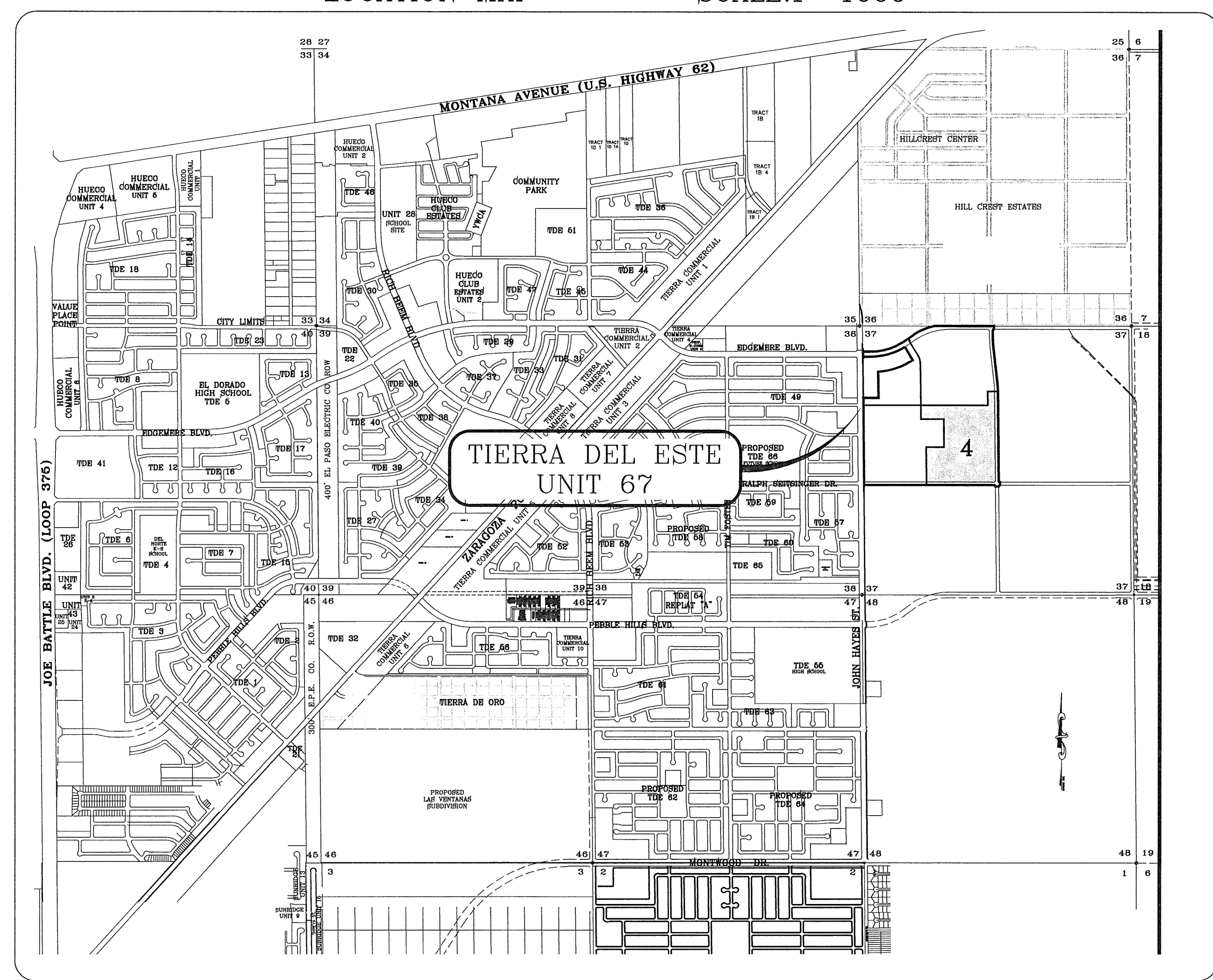
**LEGEND**

FF=#### PROPOSED FINISH GROUND AND FINISH FLOOR  
 FG=XX.XX PROPOSED SPOT ELEVATION  
 00.00 HIGH POINT  
 HIGH POINT  
 LOW POINT  
 EXISTING CONTOUR  
 PROPOSED CONTOUR  
 PROPOSED ROCK WALL  
 PROPOSED RETAINING WALL  
 PROPOSED SILT FENCE  
 RUN-OFF QUANTITY (CUBIC Ft./Sec)  
 Q WATERSHED AREA (ACRES)  
 DRAINAGE FLOW

**NOTE:**  
 HEREON DESCRIBED TRACT LIES IN ZONE X, COMMUNITY PANEL NO. 480212 0176B. DATED SEPTEMBER 4, 1991.

SEE SHEET 91 AND 92 OF 112 FOR DRAINAGE STRUCTURES.

LOCATION MAP SCALE: 1"=1000'



SCALE: 1" = 100'

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.  
 ELEVATION 4017.47

DATE	REVISIONS	BY
10/3/11	REVISIONS AS PER 8/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.

PROJECT NAME

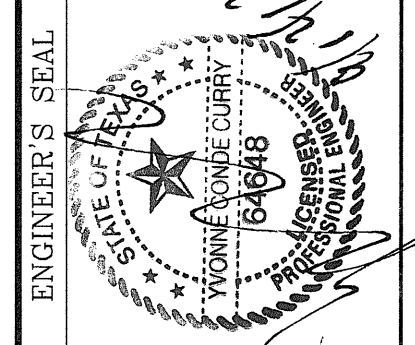
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS. CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

SCALE

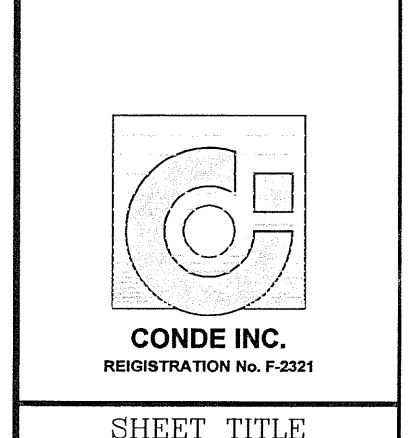
HORIZ: 1" = 100'  
 VERT: ---

DATE: MAY 2012  
 DESIGN BY: ME  
 INITIATED BY: BFOKOM  
 CHECKED BY: YC  
 JOB NO.: 1110-18



**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS

6080 SURREY DR. SITE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

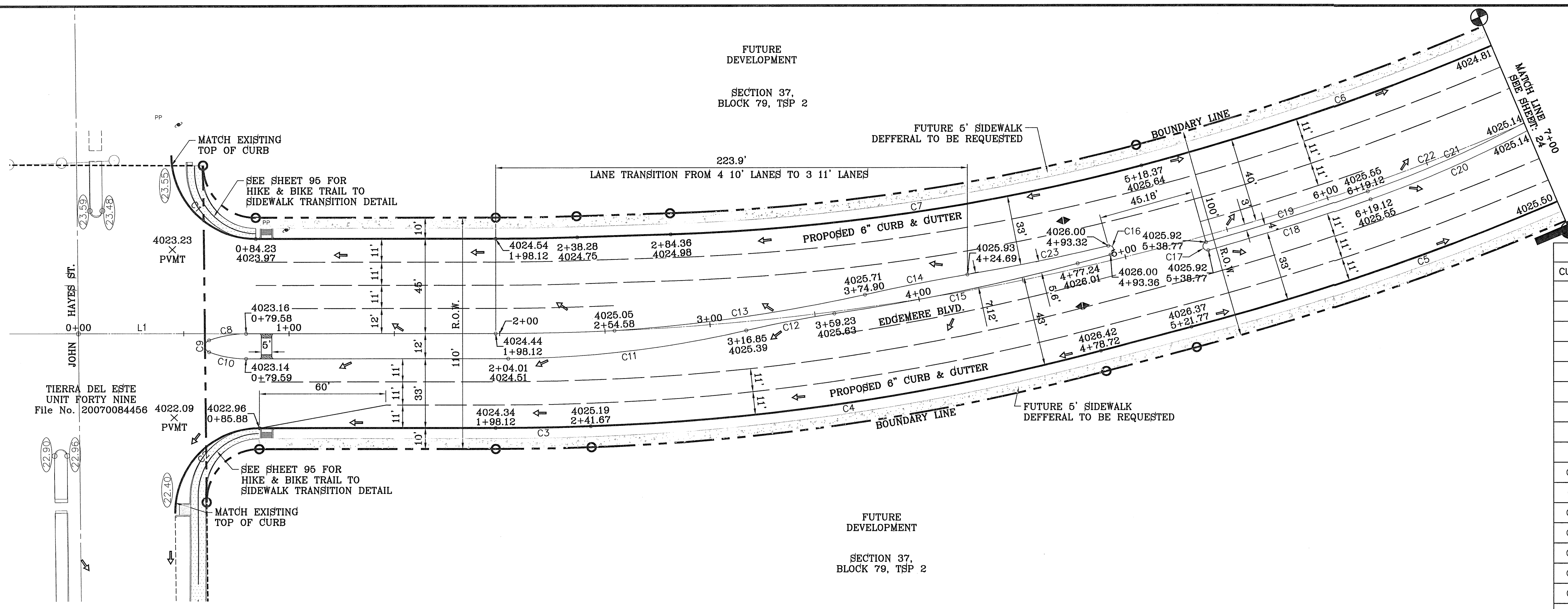


SHEET TITLE

**GRADING STABILIZATION AND STORM WATER POLLUTION PREVENTION PLAN**



FILE LOCATION S:\Subdivisions\TDE 67 DWG\TDE67-PP01\_EDGEMERE PLOTTED ON Thursday, August 23, 2012 8:59:09 AM BY OSCAR MEDINA



CURVE TABLE

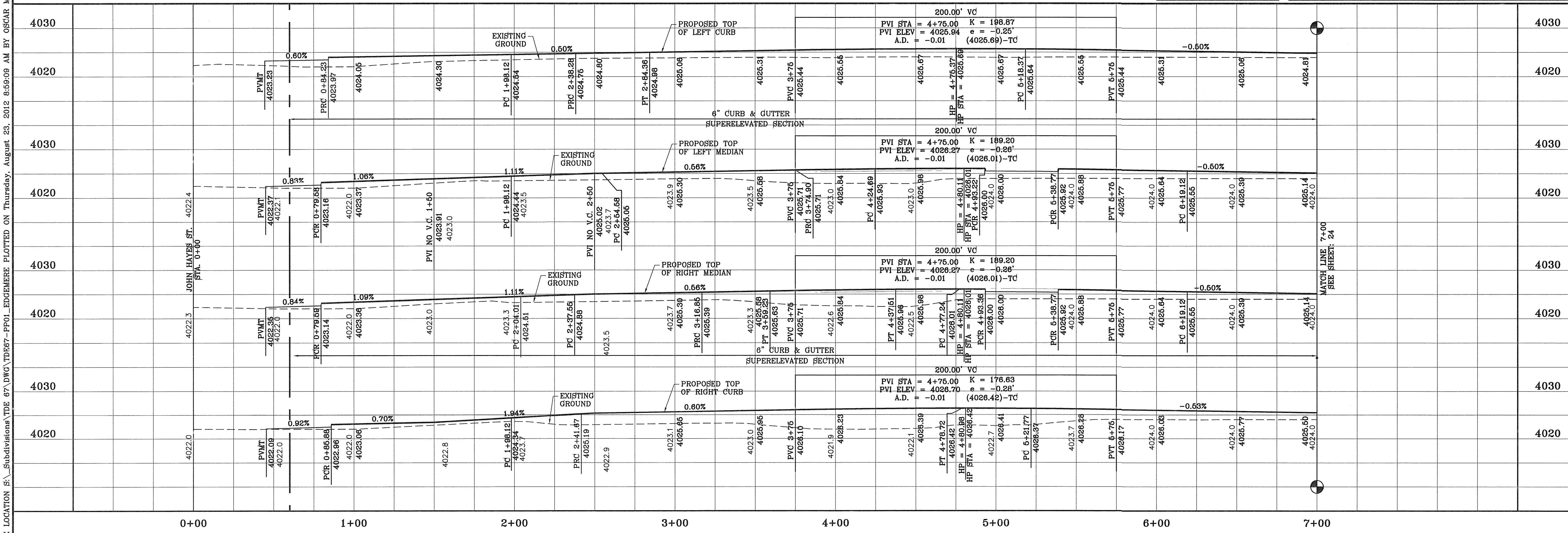
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	40.00'	62.42'	39.59'	56.28'	S45°17'23"E	89°24'33"
C2	40.00'	63.24'	40.41'	56.86'	S44°42'37"W	90°35'27"
C3	1295.00'	45.13'	22.57'	45.12'	N89°00'27"E	1°59'48"
C4	1095.00'	245.36'	123.20'	244.85'	N81°35'24"E	12°50'19"
C5	1290.00'	374.93'	188.80'	373.61'	N66°50'39"E	16°39'09"
C6	1210.00'	502.07'	254.70'	498.47'	N63°26'22"E	23°46'26"
C7	1010.00'	226.32'	113.63'	225.84'	N81°44'44"E	12°50'19"
C8	50.00'	17.95'	9.07'	17.86'	S79°43'05"W	20°34'22"
C9	3.00'	7.27'	7.99'	5.62'	S0°00'32"W	138°50'43"
C10	50.00'	17.96'	9.08'	17.86'	S79°42'14"E	20°34'50"
C11	502.95'	114.04'	57.27'	113.80'	N83°14'23"E	12°59'30"
C12	502.95'	42.61'	21.32'	42.60'	S79°10'15"W	4°51'14"
C13	804.57'	120.25'	60.24'	120.14'	N81°46'59"E	8°33'49"
C14	905.00'	49.55'	24.78'	49.54'	S78°52'28"W	3°08'12"
C15	1052.00'	118.01'	59.07'	117.94'	S78°23'03"W	6°25'37"
C16	2.18'	6.81'	164.07'	4.37'	N14°04'06"W	178°28'26"
C17	2.00'	6.28'	INFINITY	4.00'	S15°36'31"E	180°00'00"
C18	1257.00'	80.80'	40.42'	80.79'	N72°32'59"E	3°40'59"
C19	1253.00'	80.55'	40.29'	80.53'	N72°32'59"E	3°40'59"
C20	555.06'	99.86'	50.06'	99.72'	S65°34'15"W	10°18'27"
C21	551.06'	99.14'	49.70'	99.00'	S65°34'15"W	10°18'27"
C22	1250.00'	823.29'	427.20'	808.49'	N71°08'05"E	37°44'13"
C23	1043.00'	68.23'	34.13'	68.22'	N78°34'07"E	3°44'53"

○ DENOTES AS BUILT CONDITION ONLY

ALL WHEELCHAIR RAMP SHALL BE BY DEVELOPER

LINE TABLE

LINE	LENGTH	BEARING
L1	60.003	S89°59'39.49"E



PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

REVISIONS

DATE	REVISIONS
10/9/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES

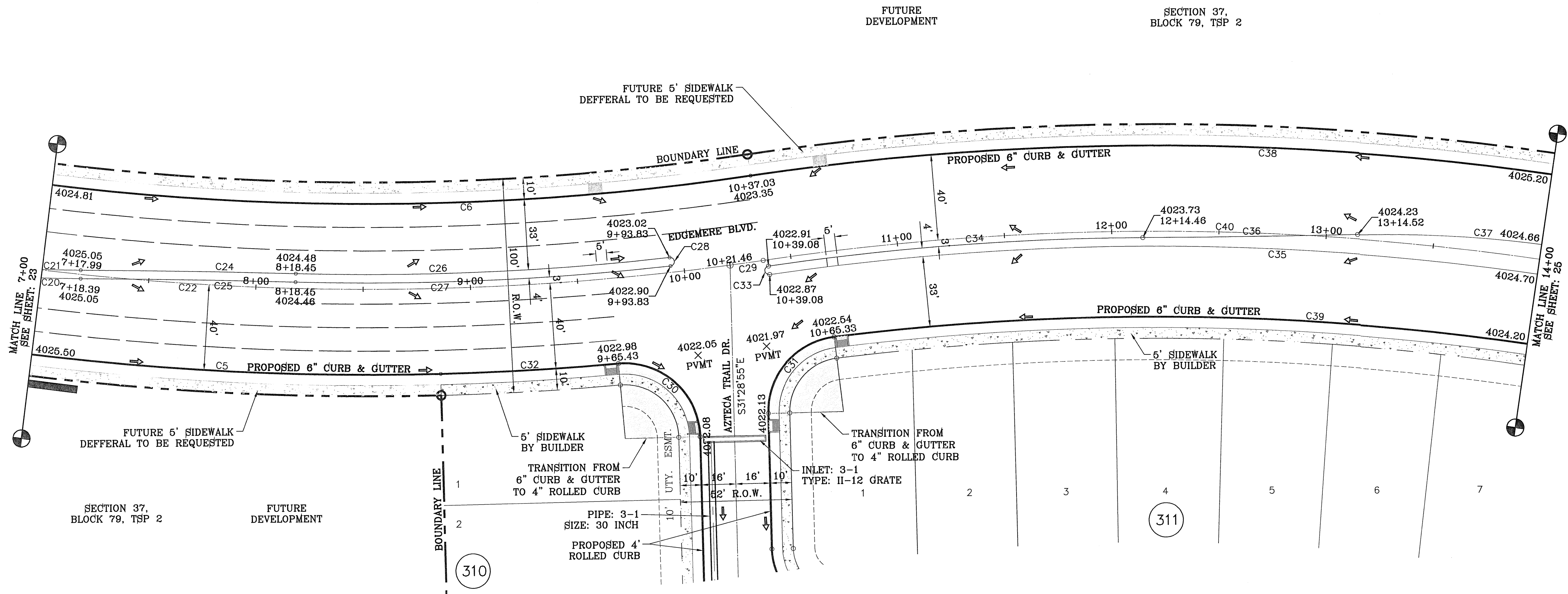
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 160.254± ACRES

ENGINEER'S SEAL  
**CONDE INC.**  
ENGINEERING / PLANNING SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

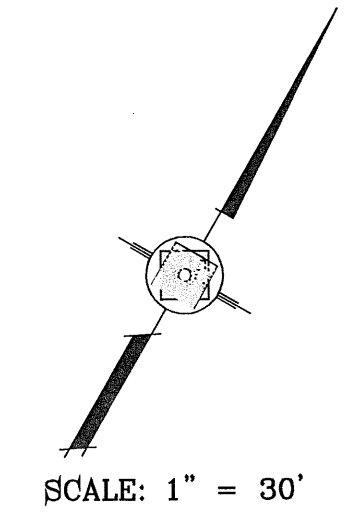
SHEET TITLE  
**STREET PLAN-PROFILE**  
**EDGEMERE BLVD.**  
STA. 0+00 TO 7+00

SHT 23 OF 112

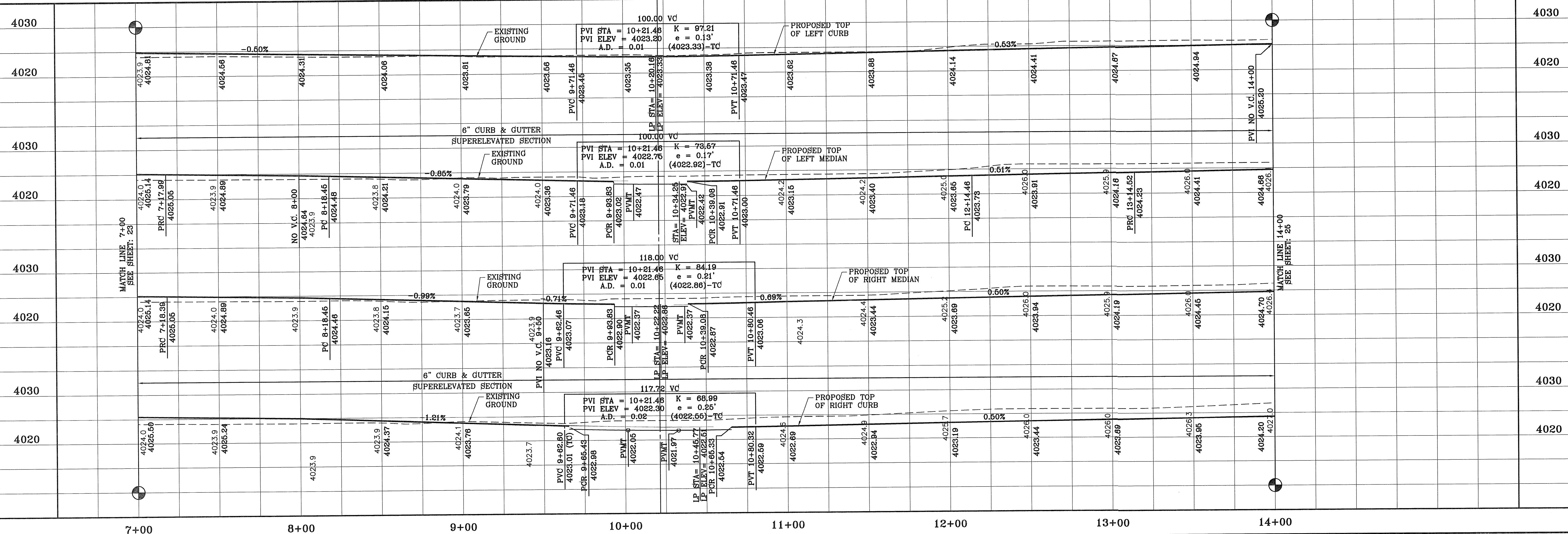
FILE LOCATION S:\Subdivisions\TDE 67.DWG\TDE67-PPOL\_EDGEMERE PLOTTED ON Thursday, August 23, 2012 8:59:20 AM BY OSCAR MEDINA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C5	1290.00'	374.93'	188.80'	373.61'	N66°50'39"E	16°39'09"
C6	1210.00'	502.07'	254.70'	498.47'	N63°26'22"E	23°46'26"
C20	555.06'	99.86'	50.06'	99.72'	S65°34'15"W	10°18'27"
C21	551.06'	99.14'	49.70'	99.00'	S65°34'15"W	10°18'27"
C22	1250.00'	823.29'	427.20'	808.49'	N71°08'05"E	37°44'13"
C24	4964.39'	100.20'	50.10'	100.20'	S60°59'44"W	1°09'23"
C25	4960.39'	100.12'	50.06'	100.12'	S60°59'44"W	1°09'23"
C26	1243.00'	174.40'	87.34'	174.26'	N57°33'09"E	8°02'20"
C27	1247.00'	174.96'	87.62'	174.82'	N57°33'09"E	8°02'20"
C28	2.00'	6.28'	INFINITY	4.00'	N36°28'01"W	180°00'00"
C29	1250.00'	15.57'	7.78'	15.57'	N51°54'34"E	0°42'49"
C30	35.00'	57.23'	37.33'	51.06'	N78°19'25"W	93°41'00"
C31	35.00'	51.52'	31.70'	46.99'	S10°41'02"W	84°19'54"
C32	1290.00'	82.93'	41.48'	82.92'	N56°40'35"E	3°41'00"
C33	2.00'	6.28'	INFINITY	4.00'	S38°21'13"E	180°00'00"
C34	1247.00'	174.96'	87.62'	174.82'	S55°39'57"W	8°02'20"
C35	1243.00'	174.45'	87.34'	174.26'	S62°34'53"W	21°52'12"
C36	4960.39'	100.12'	50.06'	100.12'	N59°06'32"E	1°09'23"
C37	555.06'	99.86'	50.06'	99.72'	S63°41'04"W	10°18'27"
C38	1290.00'	409.47'	206.47'	407.75'	S60°38'45"W	18°11'12"
C39	1210.00'	776.93'	402.38'	763.65'	S71°14'39"W	36°47'20"
C40	1250.00'	838.10'	435.49'	822.49'	S70°45'38"W	38°24'57"



ALL WHEELCHAIR RAMPS SHALL BE BY DEVELOPER  
SEE SHEET 92 FOR DRAINAGE STRUCTURE #3



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47' .....NAYD88 DATUM

REVISIONS

DATE	BY	O.M.
10/9/11		
11/1/11		

PROJECT NAME

**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 97, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEY CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

SCALE: 1" = 30'

SCALE: 1" = 10'

DATE: MAY 2012

DESIGN BY: YC

INITIATED BY: EPC/OM

CHECKED BY: YC

JOB NO.: 1110-18

ENGINEER'S SEAL

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 582-0293  
FAX: (915) 582-0286

SHEET TITLE

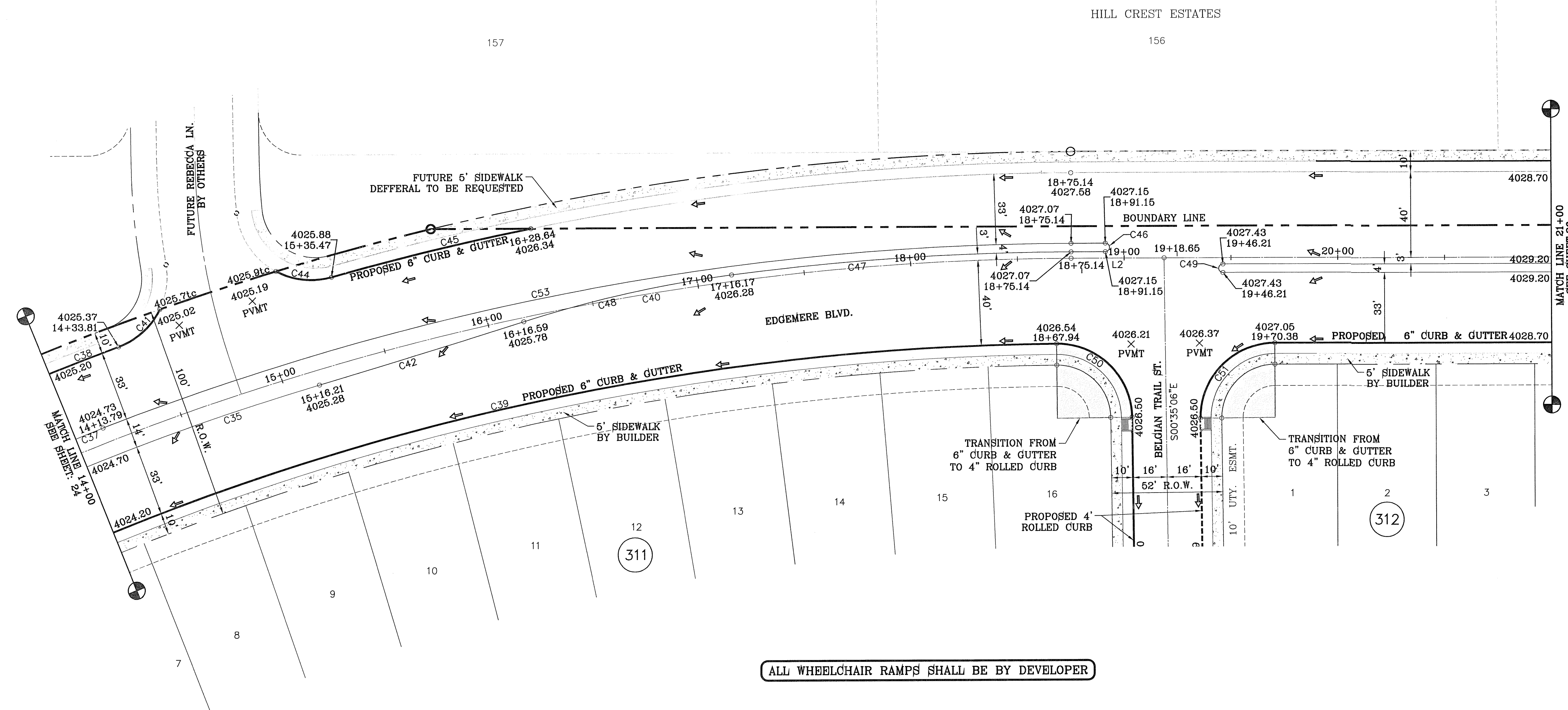
**STREET PLAN - PROFILE**

**EDGEMERE BLVD.**  
STA. 7+00 TO 14+00

SHT 24 OF 112

TIERRA DEL ESTE UNIT SIXTY SEVEN

FILE LOCATION S:\Subdivisions\TDE 67\DWG\TDE67-PP01\_EDGEMERE PLOTTED ON Thursday, August 23, 2012 8:56:34 AM BY OSCAR MEDINA

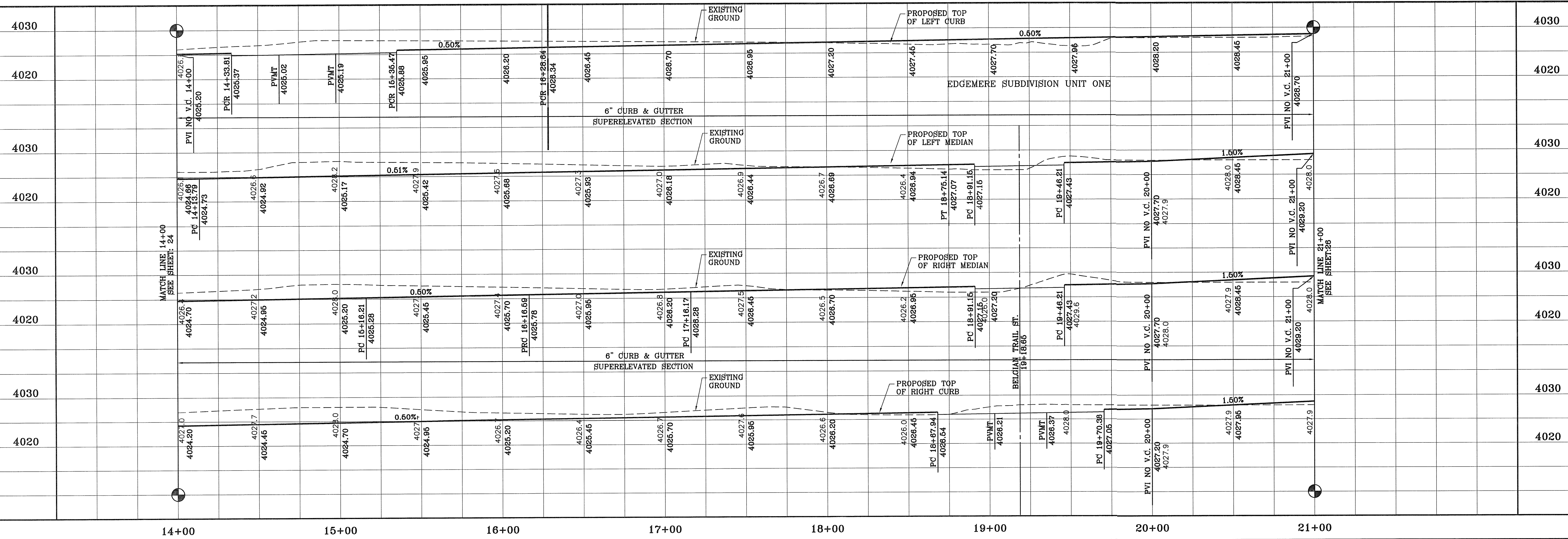


HILL CREST ESTATES  
157  
156

SCALE: 1" = 30'

LINE TABLE	
LINE	BEARING
L2	N89°58'06.04"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C35	1243.00'	474.45'	240.15'	471.58'	S62°34'53"W	21°52'12"
C37	555.06'	99.86'	50.06'	99.72'	S63°41'04"W	10°18'27"
C38	1290.00'	409.47'	206.47'	407.75'	S60°38'45"W	18°11'12"
C39	1210.00'	776.93'	402.38'	763.65'	S71°14'39"W	36°47'20"
C40	1250.00'	838.10'	435.49'	822.49'	S70°45'38"W	38°24'57"
C41	35.00'	26.81'	14.10'	26.16'	N47°47'52"E	43°52'59"
C42	5024.24'	100.12'	50.06'	100.12'	N72°56'50"E	1°08'30"
C44	35.00'	26.81'	14.10'	26.16'	S83°39'33"E	43°52'59"
C45	1290.00'	96.15'	48.10'	96.13'	S76°32'04"W	4°16'15"
C46	2.00'	6.28'	INFINITY	4.00'	N0°01'54"W	180°00'00"
C47	1253.00'	159.35'	79.78'	159.24'	S86°19'31"W	7°17'11"
C48	554.27'	99.86'	50.06'	99.72'	S77°32'15"W	10°19'20"
C49	2.00'	6.28'	INFINITY	4.00'	S0°01'54"E	180°00'00"
C50	35.00'	54.84'	34.86'	49.40'	N45°28'23"W	89°46'35"
C51	35.00'	55.32'	35.34'	49.74'	S44°41'30"W	90°33'12"
C53	1257.00'	463.93'	234.64'	461.30'	N79°23'42"E	21°08'48"



CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47		REVISIONS
DATE	BY	O.M.
10/3/11	REVISIONS AS PER B/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 07, BLOCK 70, TOWNSHIP 2, TEXAS AND PART OF THE EL PASO COUNTY TEXAS CITY OF EL PASO, TEXAS, EL PASO COUNTY TEXAS CITY CONTAINING: 166.964± ACRES

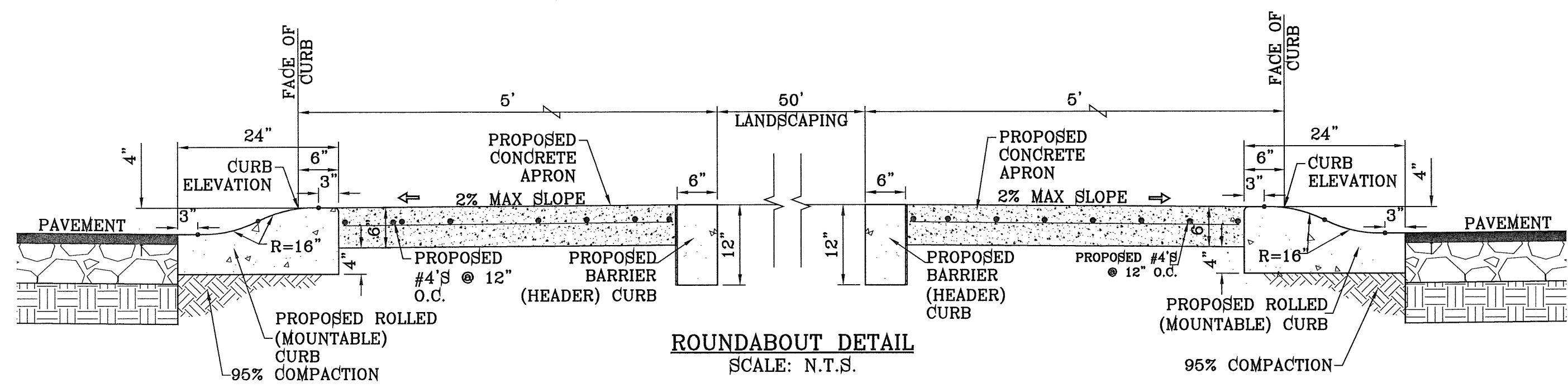
ENGINEER'S SEAL

CONDE INC.  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN - PROFILE**  
**EDGEMERE BLVD.**  
 STA. 14+00 TO 21+00

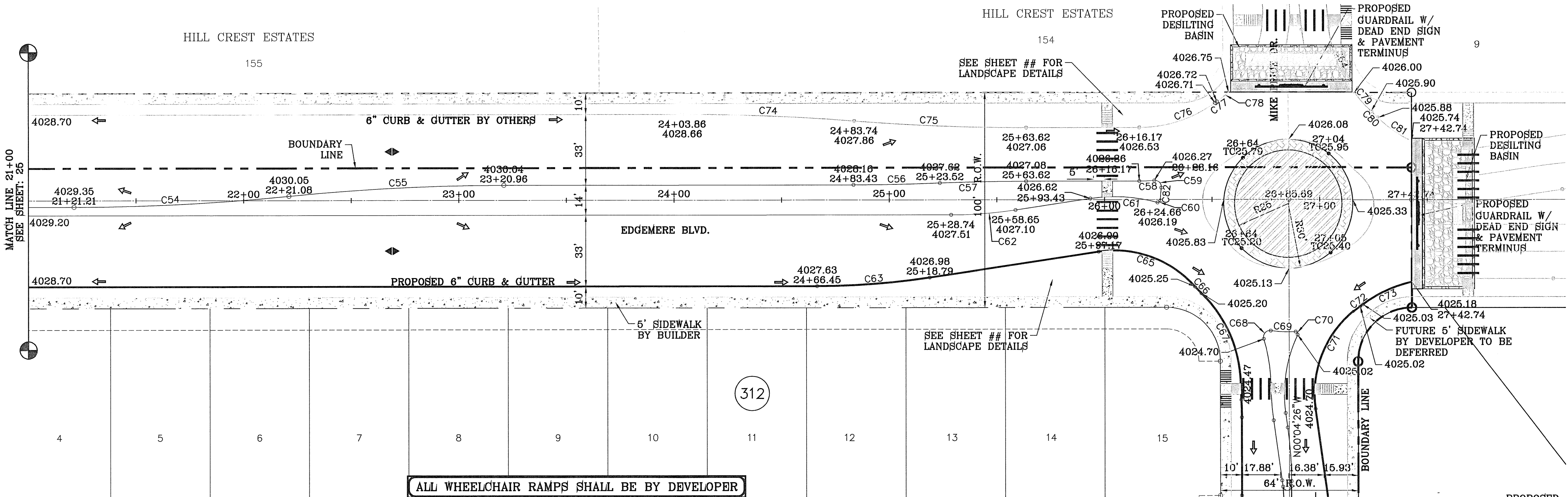


FILE LOCATION S:\Subdivisions\TDE 67.DWG\TDE67-PP01\_EDGEMERE PLOTTED ON Thursday, August 23, 2012 8:59:48 AM BY OSCAR MEDINA

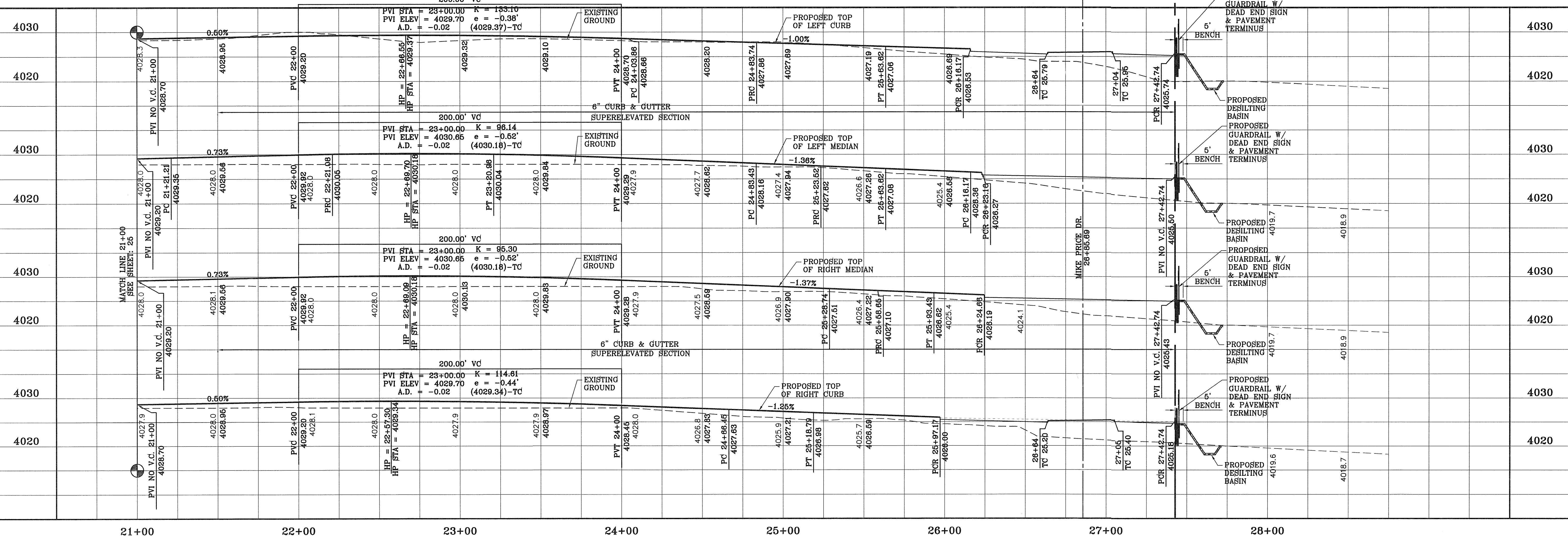


SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C54	1000.00'	100.04'	50.06'	100.00'	N87°06'08"E	5'43"55"
C55	1000.00'	100.04'	50.06'	100.00'	S87°06'08"W	5'43"55"
C56	1000.00'	40.11'	20.06'	40.11'	N88°49'09"E	2'17"53"
C57	1000.00'	40.11'	20.06'	40.11'	S88°49'09"W	2'17"53"
C58	85.00'	6.99'	3.50'	6.99'	N87°36'43"E	4'42"46"
C59	3.00'	5.34'	3.70'	4.66'	N43°46'48"W	101°55'45"
C60	1.00'	1.82'	1.28'	1.58'	N53°26'16"E	104°01'10"
C61	75.00'	31.52'	16.00'	31.29'	N86°35'33"W	24°04'48"
C62	200.00'	30.02'	15.04'	29.99'	N85°40'05"E	8'36"03"
C63	350.00'	52.54'	26.32'	52.49'	N85°40'05"E	8'36"03"
C64	60.00'	32.78'	16.81'	32.37'	S21°21'52"E	31'17"59"
C65	50.00'	49.74'	27.15'	47.72'	N70°07'53"W	57°00'07"
C66	58.00'	4.33'	2.16'	4.32'	S43°46'01"E	4'16"24"
C67	60.00'	47.26'	24.93'	46.05'	N23°20'24"W	45°07'38"
C68	3.00'	6.03'	4.72'	5.06'	S40°19'05"W	115°08'18"
C69	59.50'	11.58'	5.81'	11.56'	S87°41'19"E	11°09'06"
C70	1.00'	2.07'	1.69'	1.72'	N33°54'26"W	118°42'54"
C71	50.00'	54.84'	30.55'	52.14'	S23°27'09"W	62°50'49"
C72	58.00'	1.62'	0.81'	1.62'	N54°04'39"E	1'35"49"
C73	60.00'	25.14'	12.76'	24.96'	S65°17'03"W	24°00'36"
C74	1000.00'	79.97'	40.01'	79.95'	N87°44'27"W	4'34"55"
C75	1000.00'	79.97'	40.01'	79.95'	S87°44'27"E	4'34"55"
C76	60.00'	37.62'	19.45'	37.01'	N72°00'19"E	35°55'33"
C77	58.00'	1.13'	0.56'	1.13'	S54°35'55"W	1°06'45"
C78	50.00'	6.91'	3.46'	6.91'	N51°11'38"E	7°55'20"
C79	60.00'	11.80'	5.92'	11.78'	S42°38'59"E	11°16'15"
C80	58.00'	4.29'	2.15'	4.29'	N46°09'54"W	41°4'25"
C81	50.00'	19.18'	9.71'	19.07'	S55°02'12"E	21°59'02"
C82	59.50'	5.98'	2.99'	5.98'	S41°18'23"W	5°45'24"



ALL WHEELCHAIR RAMPS SHALL BE BY DEVELOPER



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE 10/3/11

REVISIONS AS PER 8/24/11 REDLINES

DATE 11/1/11

REVISIONS AS PER 10/19/11 REDLINES

PROJECT NAME

**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

ENGINEER'S SEAL

CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6060 SURVEY DR. STE. 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0285 FAX: (915) 592-0286

SHEET TITLE

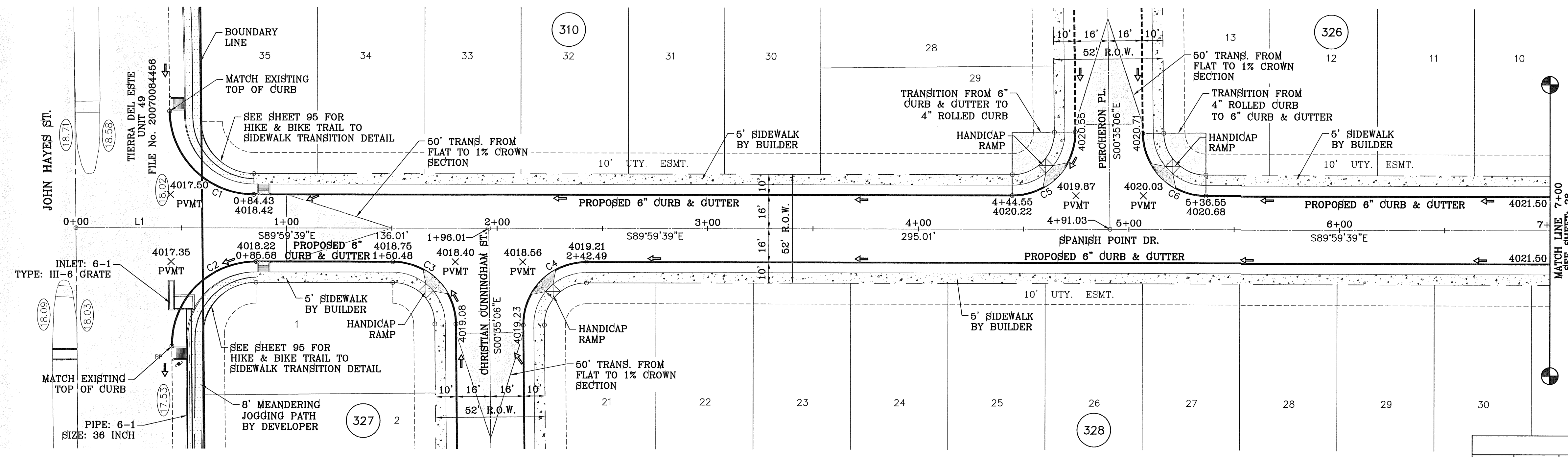
**STREET PLAN - PROFILE**

**EDGEMERE BLVD.**

STA. 21+00 TO 27+42.74

SHT 26 OF 112

FILE LOCATION S:\Subdivisions\TDE 67\DWG\TDB37-PP02\_SPANISH POINT PLOTTED ON Thursday, August 23, 2012 9:00:12 AM BY OSCAR MEDINA

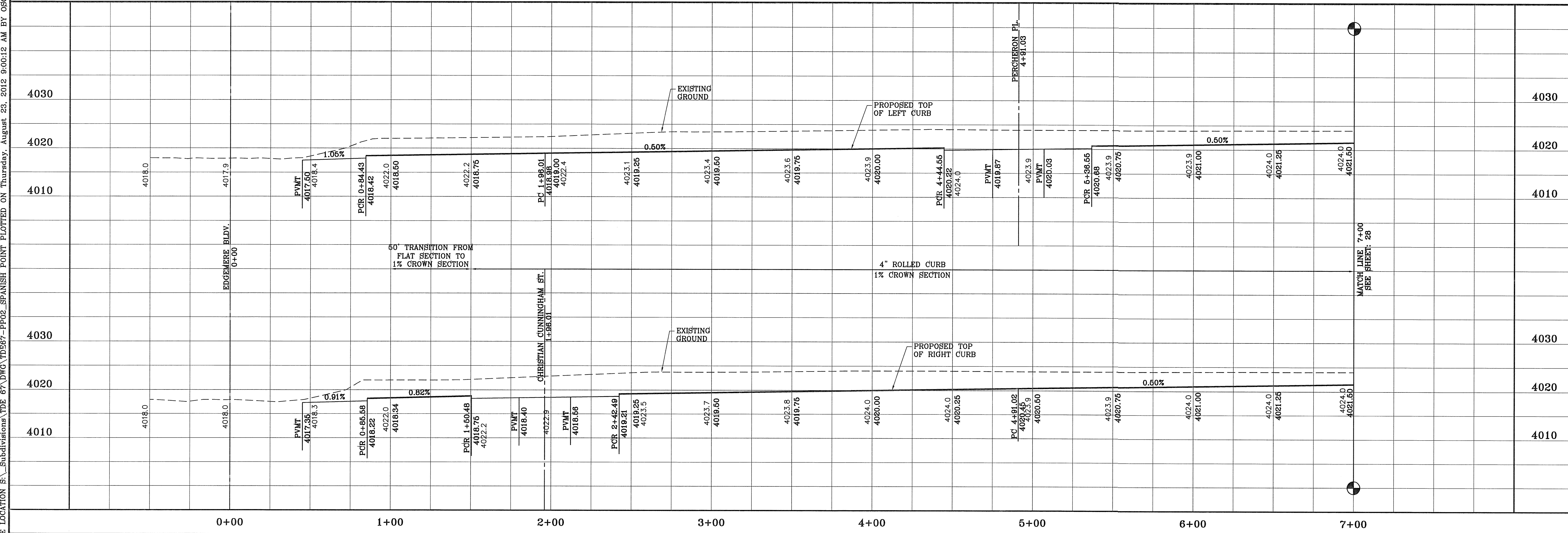


SCALE: 1" = 30'

LINE TABLE		
LINE	LENGTH	BEARING
L1	60.003	S89°59'39.49"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	40.00'	62.42'	39.59'	56.28'	S45°17'23"E	89°24'33"
C2	40.00'	63.24'	40.41'	56.86'	S44°42'37"W	90°35'27"
C3	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C4	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C5	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C6	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"

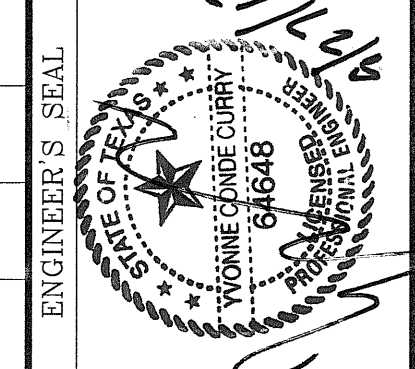
○ DENOTES AS BUILT CONDITION ONLY



REVISIONS	
DATE	BY
10/3/11	O.M.
11/1/11	O.M.

**TERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 27, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY COMPANY SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 166.254± ACRES

SCALE  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: EFG/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

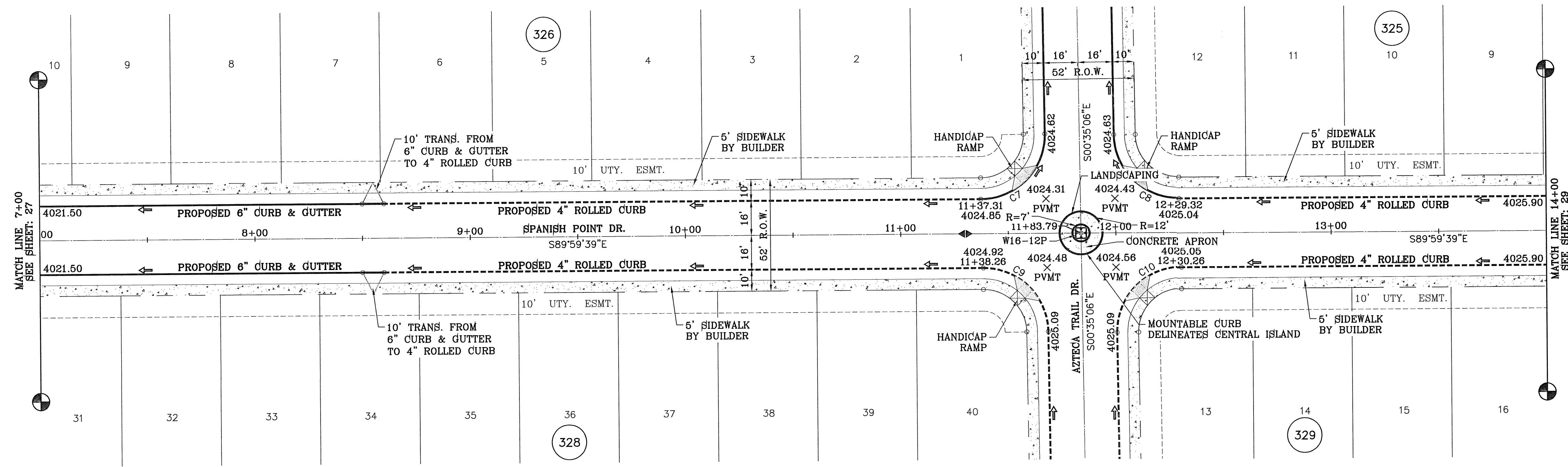


**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**CONDE INC.**  
 REGISTRATION No. F2321

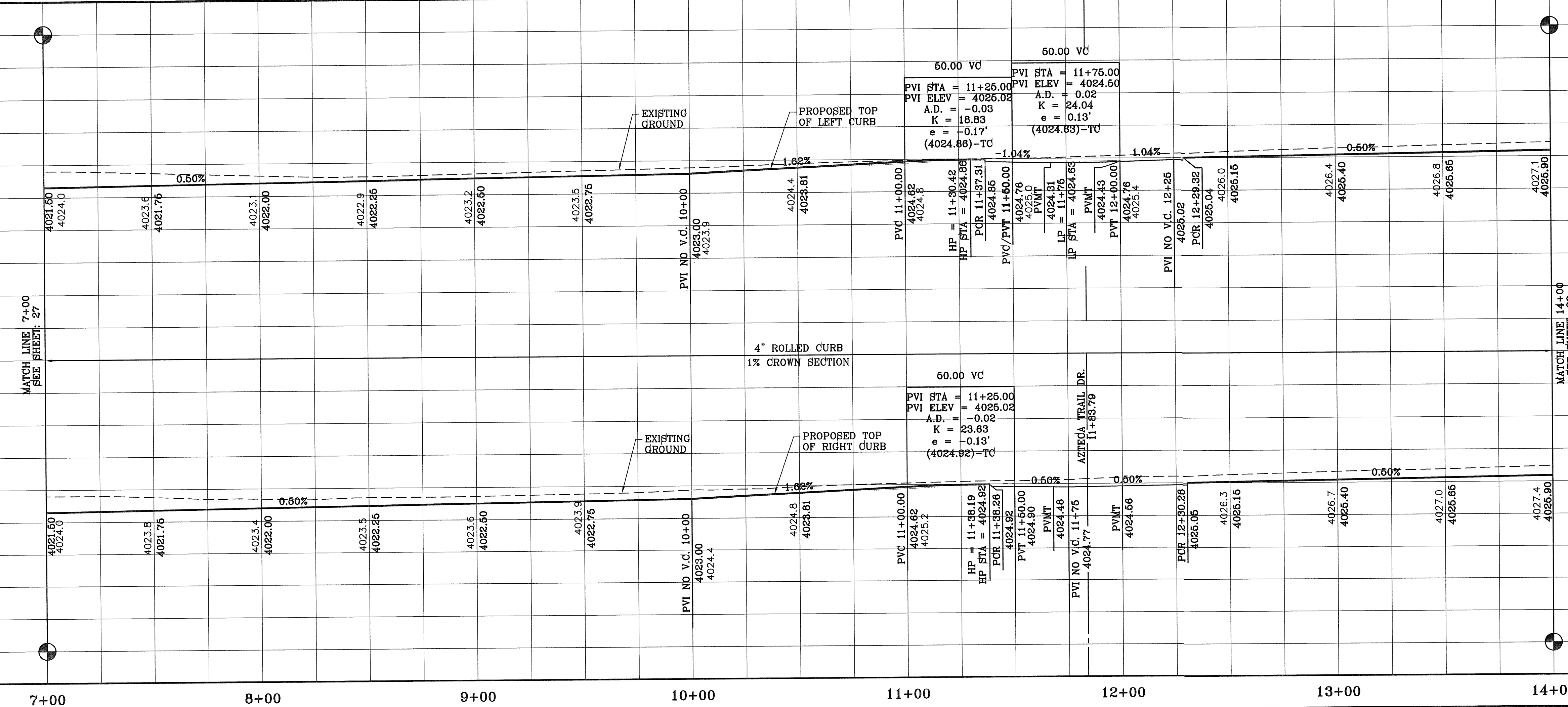
SHEET TITLE  
**SPANISH POINT DR.**  
 STA. 0+00 TO 7+00

FILE LOCATION: S:\Subdivisions\TDE 67\DWG\TDS67-PP02\_SPANISH POINT PLOTTED ON Thursday, August 23, 2012 9:00:19 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C7	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C8	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C9	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C10	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 87, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 1.66254± ACRES

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**SPANISH POINT DR.**  
STA. 7+00 TO 14+00

SHT 28 OF 112

PROJECT NAME: TIERRA DEL ESTE UNIT SIXTY SEVEN  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHNSWAY ST. AND SPANISH POINT LN. ELEVATION 4017.47' NAVD83 DATUM  
DATE: 10/3/11  
REVISIONS AS PER 8/24/11 REDLINES  
BY: O.M.  
DATE: 11/1/11  
REVISIONS AS PER 10/19/11 REDLINES  
BY: O.M.

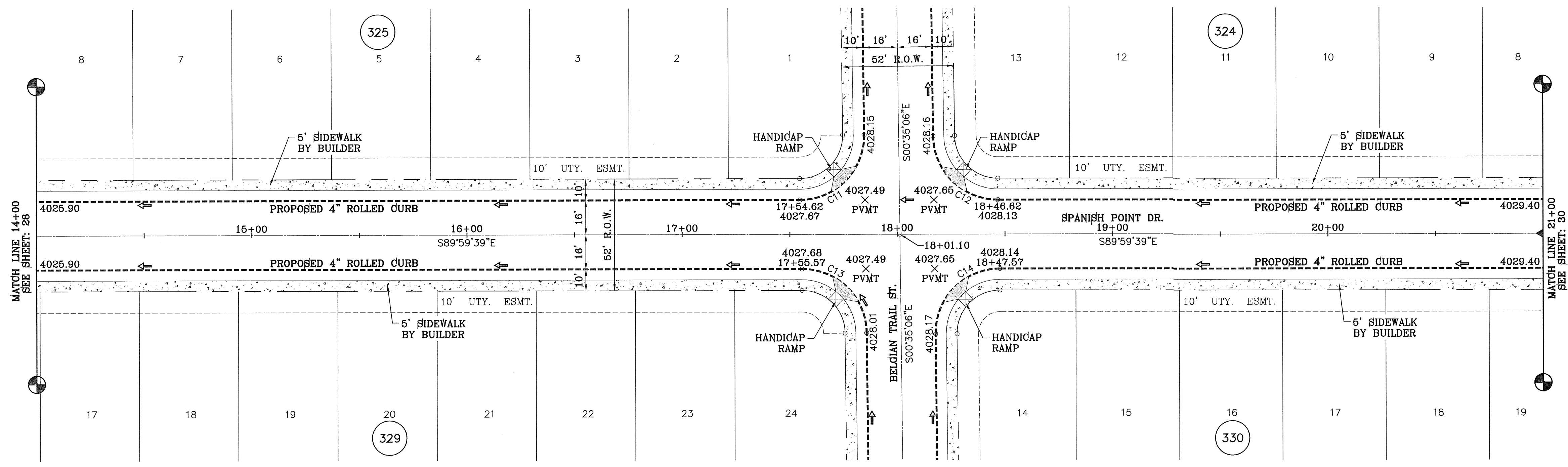
ENGINEER'S SEAL: [Seal of Oscar Medina, Professional Engineer, State of Texas, No. 66488]

DESIGN BY: YC  
INITIATED BY: BFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

DATE: MAY 2012

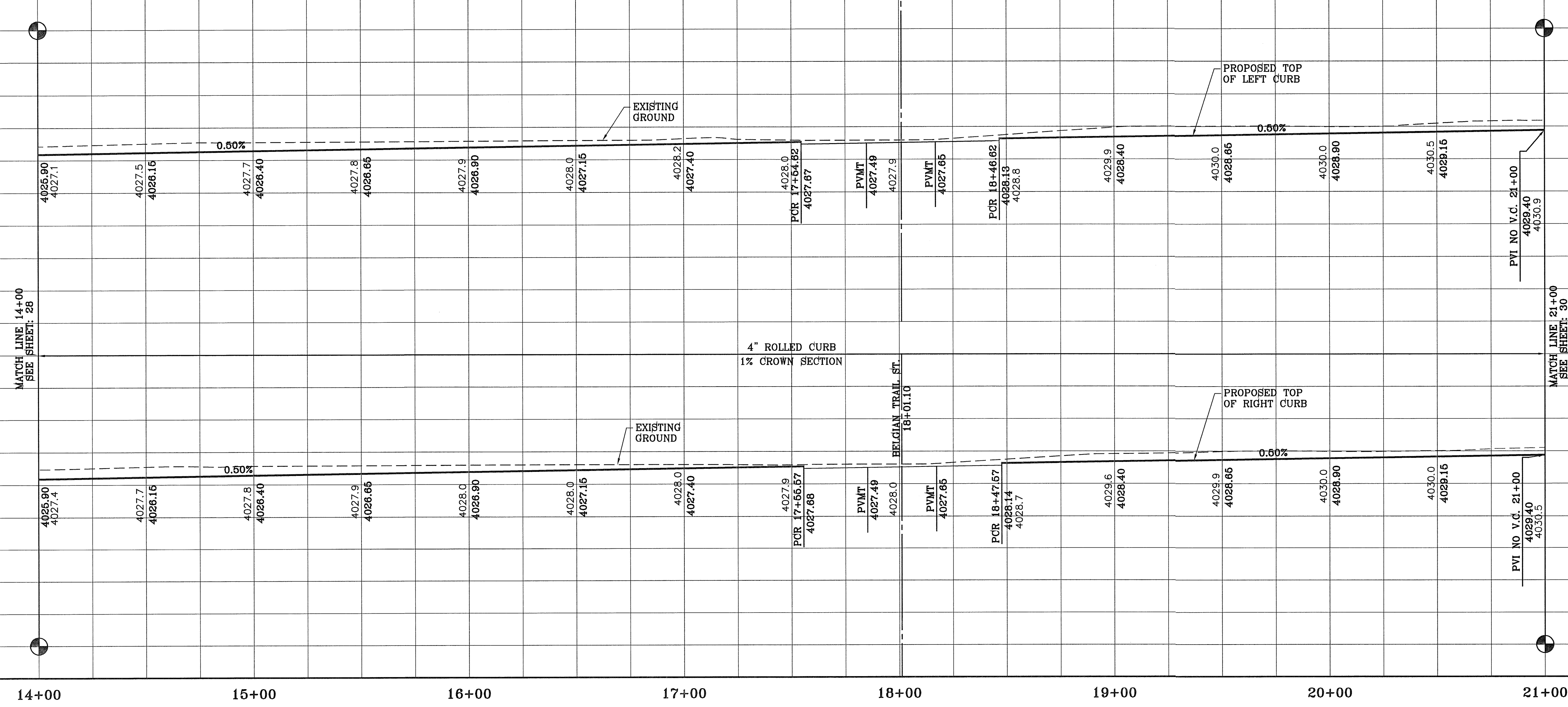
HORIZ: 1" = 30'  
VERT: 1" = 10'

FILE LOCATION: s:\subdivisions\TDE 67 DWG\TDE67-PP02-SPANISH POINT PLOTTED ON Thursday, August 23, 2012 9:00:28 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C11	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C12	30.00'	46.81'	29.69'	42.21'	S45°17'23"W	89°24'33"
C13	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C14	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE	REVISIONS	BY	C.M.
10/3/11	REVISIONS AS PER 8/24/11 REDLINES		
11/1/11	REVISIONS AS PER 10/19/11 REDLINES		

PROJECT NAME

**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

SCALE

HORIZ: 1" = 30'

VERT: 1" = 10'

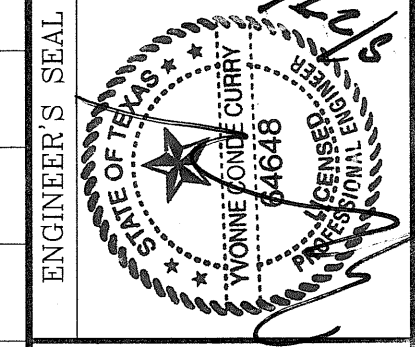
DATE: MAY 2012

DESIGN BY: YC

INITIATED BY: EFG/OM

CHECKED BY: YC

JOB NO.: 1110-18



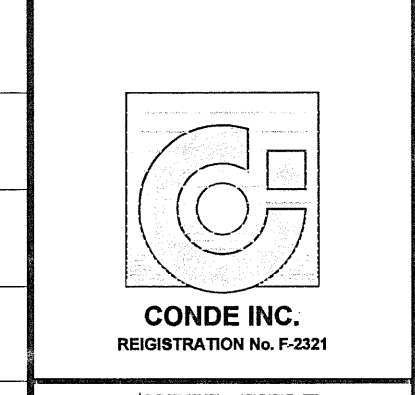
ENGINEER'S SEAL

**CONDE INC.**

ENGINEERING / PLANNING SURVEYING / GPS

6080 SURETY DR. STE 100 EL PASO, TEXAS 79905

PHONE: (915) 592-0283 FAX: (915) 592-0286



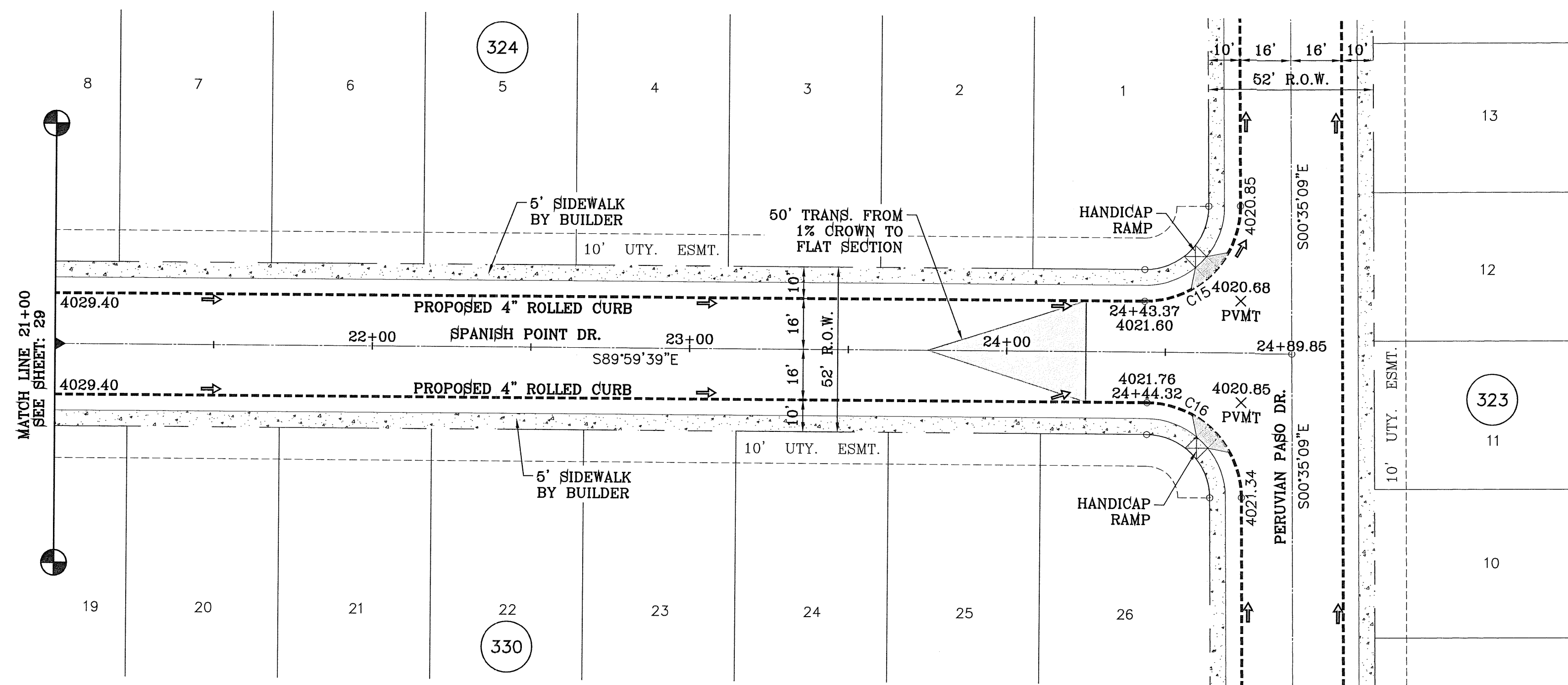
SHEET TITLE

STREET PLAN-PROFILE

**SPANISH POINT DR.**

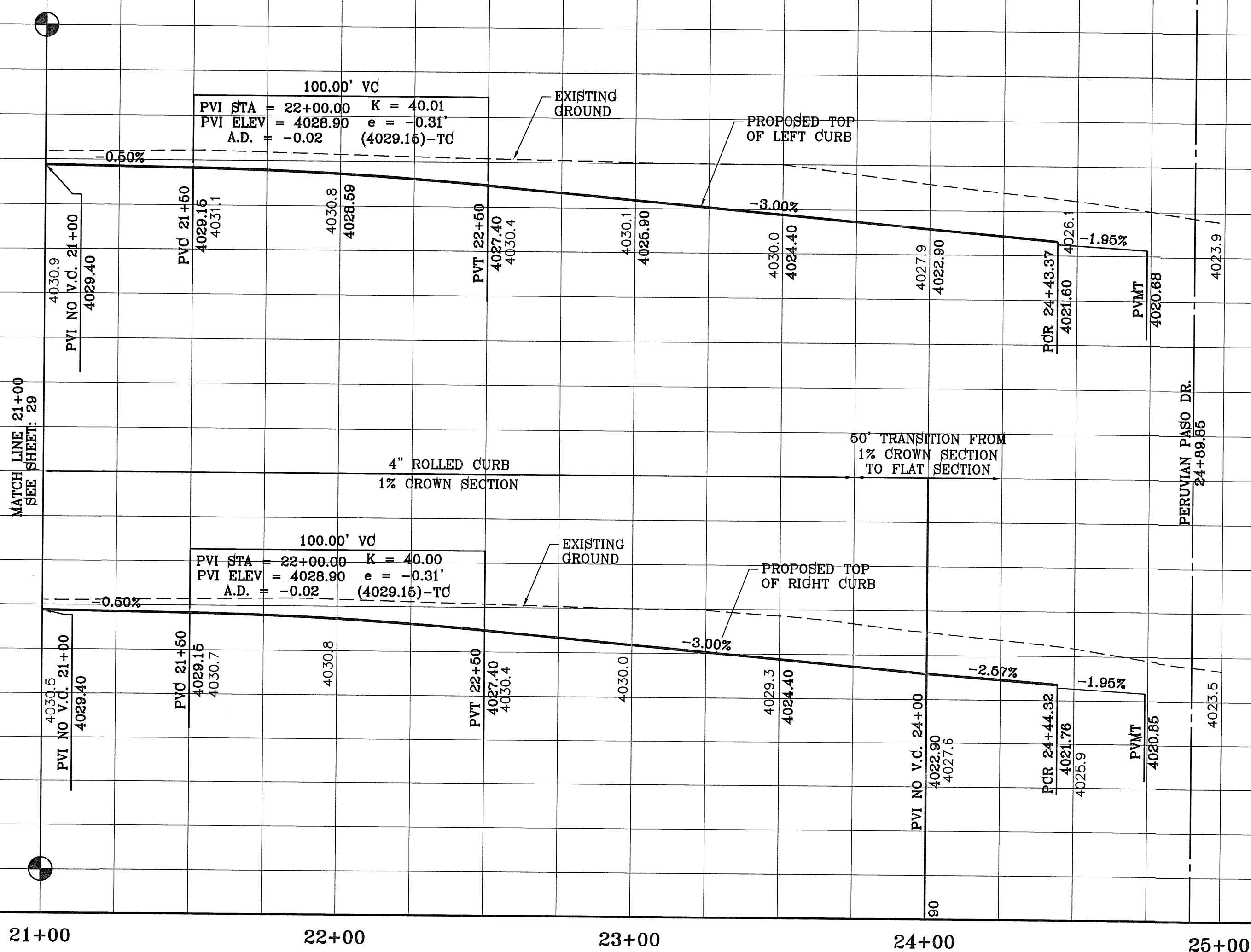
STA. 14+00 TO 21+00

FILE LOCATION: S:\Subdivisions\TDE 67\DWG\TDE67-PP02.SPANISH POINT PLOTTED ON Thursday, August 23, 2012 9:00:33 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C15	30.00'	47.43'	30.31'	42.64'	N44°42'36"E	90°35'30"
C16	30.00'	46.81'	29.69'	42.21'	N45°17'24"W	89°24'30"



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE	REVISIONS	BY
10/3/11	REVISIONS AS PER B/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.26± ACRES

SCALE  
HORIZ: 1" = 90'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: PFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

ENGINEER'S SEAL

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

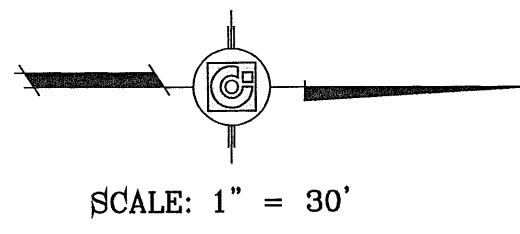
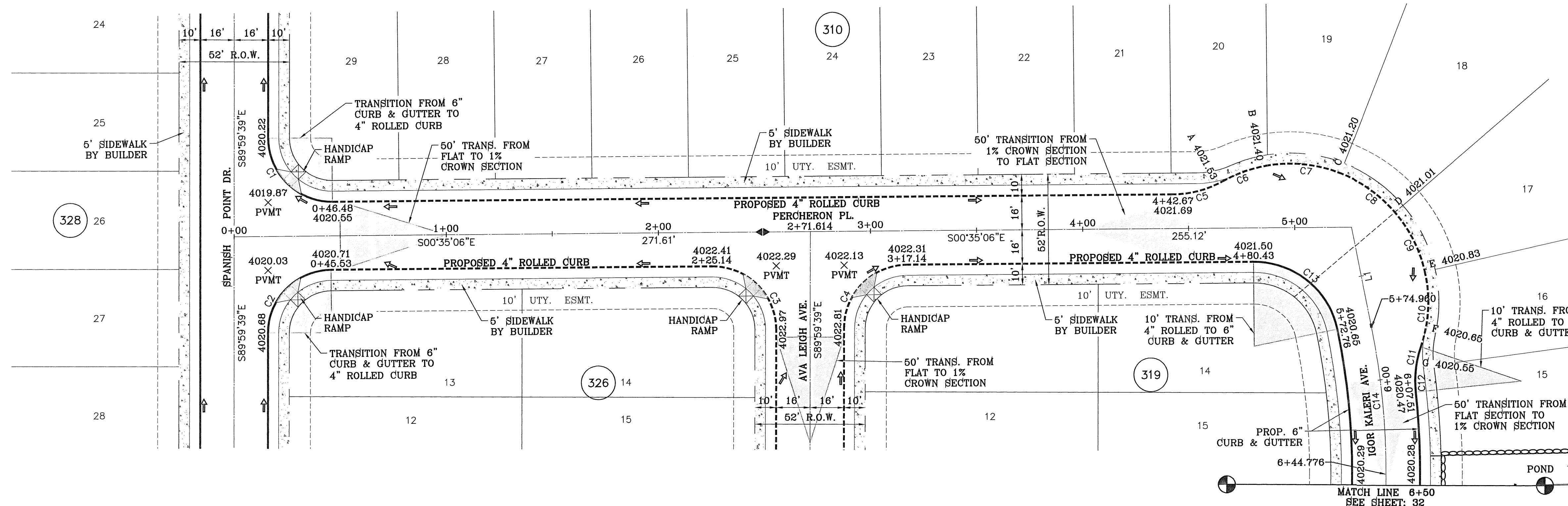
SHEET TITLE  
STREET  
PLAN-PROFILE

**SPANISH POINT DR.**

STA. 21+00  
TO 24+89.85

SHT 30 OF 112

FILE LOCATION: S:\Subdivisions\DE 67\DWG\VD267-PP03\_PERCHERON-IGOR PLOTTED ON Thursday, August 23, 2012 9:01:00 AM BY OSCAR MEDINA



LINE TABLE	
LINE	BEARING
L1	N78°34'35.83"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C2	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C3	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C4	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C5	50.00'	24.93'	12.73'	24.67'	N14°52'06"W	28°34'00"
C6	65.00'	22.11'	11.17'	22.01'	S19°24'18"E	19°29'37"
C7	65.00'	35.06'	17.97'	34.64'	S5°47'44"W	30°54'26"
C8	65.00'	31.62'	16.13'	31.31'	S35°11'10"W	27°52'25"
C9	65.00'	31.62'	16.13'	31.31'	S63°03'35"W	27°52'25"
C10	65.00'	36.12'	18.54'	35.66'	N87°04'59"W	31°50'26"
C11	50.00'	10.27'	5.15'	10.25'	S77°02'54"E	11°46'15"
C12	50.00'	11.49'	5.77'	11.46'	S89°30'51"E	13°09'40"
C13	40.00'	55.00'	32.85'	50.77'	S38°48'26"W	78°47'05"
C14	350.00'	69.82'	35.02'	69.70'	S84°17'28"W	11°25'45"

BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF  
JOHN HAYES ST. AND SPANISH POINT  
ELEVATION 4017.47  
DATE  
10/3/11  
11/1/11  
REVISIONS  
REVISIONS AS PER 8/24/11 REDLINES  
REVISIONS AS PER 10/19/11 REDLINES  
BY  
O.M.  
O.M.

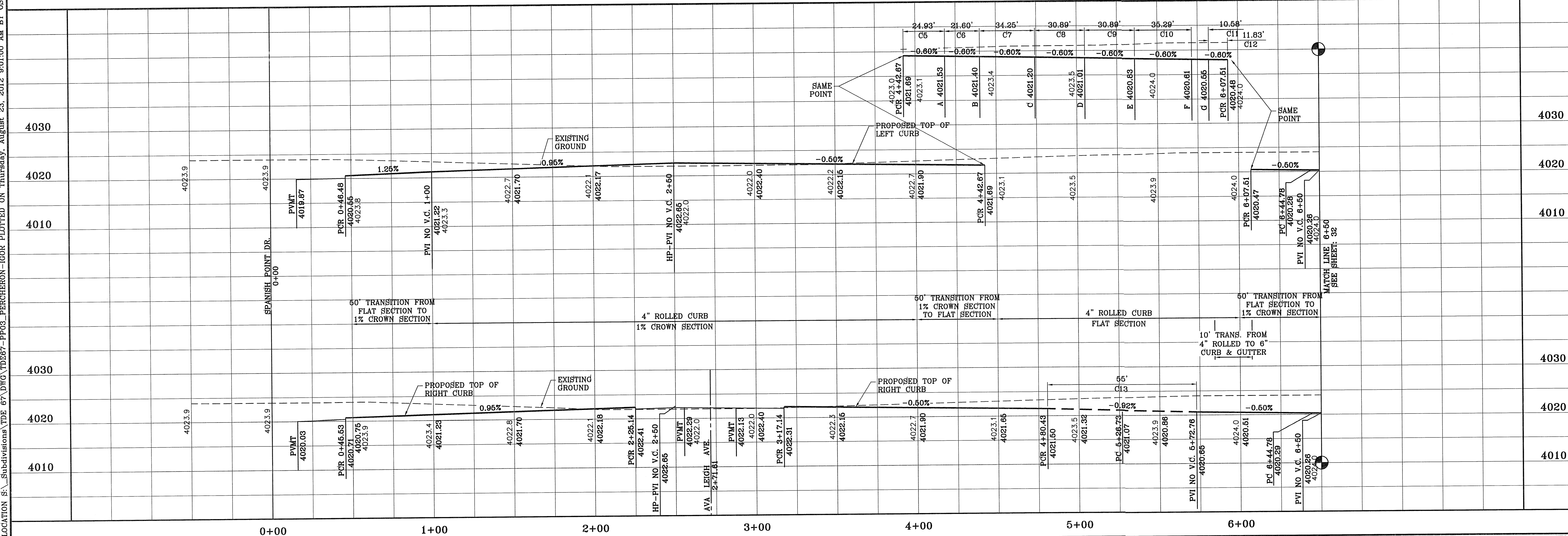
PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2,  
TEXAS AND PACIFIC RAILWAY CO. SURVEYS,  
CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 1.66264± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: BFK/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

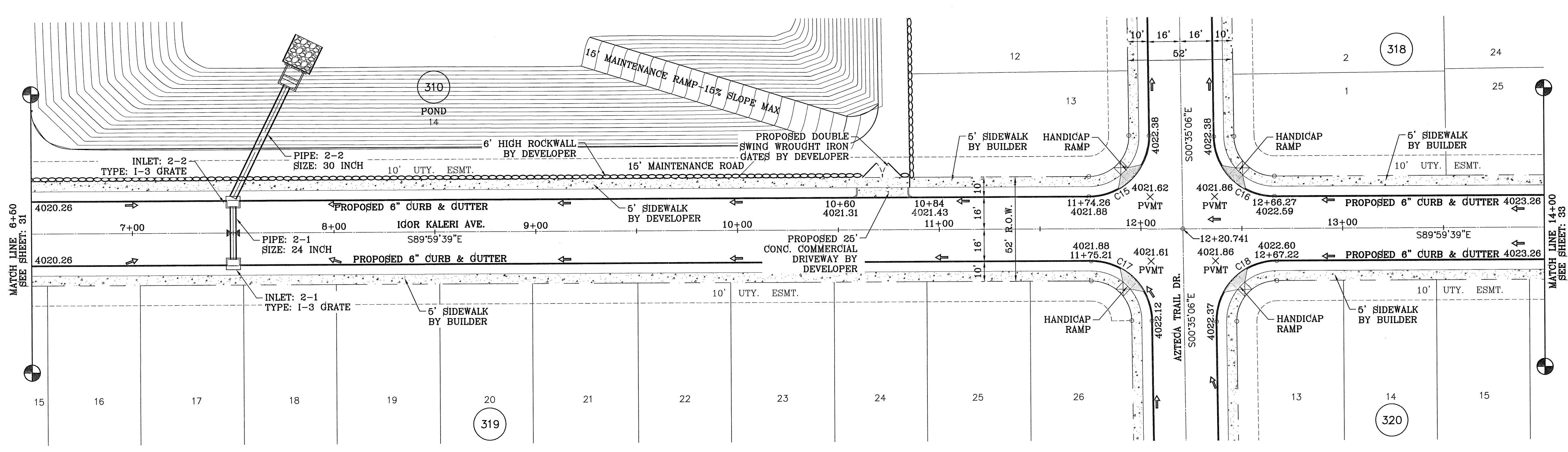
ENGINEER'S SEAL

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GIS  
6050 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**PERCHERON PL. & IGOR KALERI AVE.**  
STA. 0+00 TO 6+50



FILE LOCATION S:\\_Subdivisions\TDE 67 DWG\TDE67-PP03\_PERCHERON-IGOR PLOTTED ON Thursday, August 23, 2012 9:01:08 AM BY OSCAR MEDINA

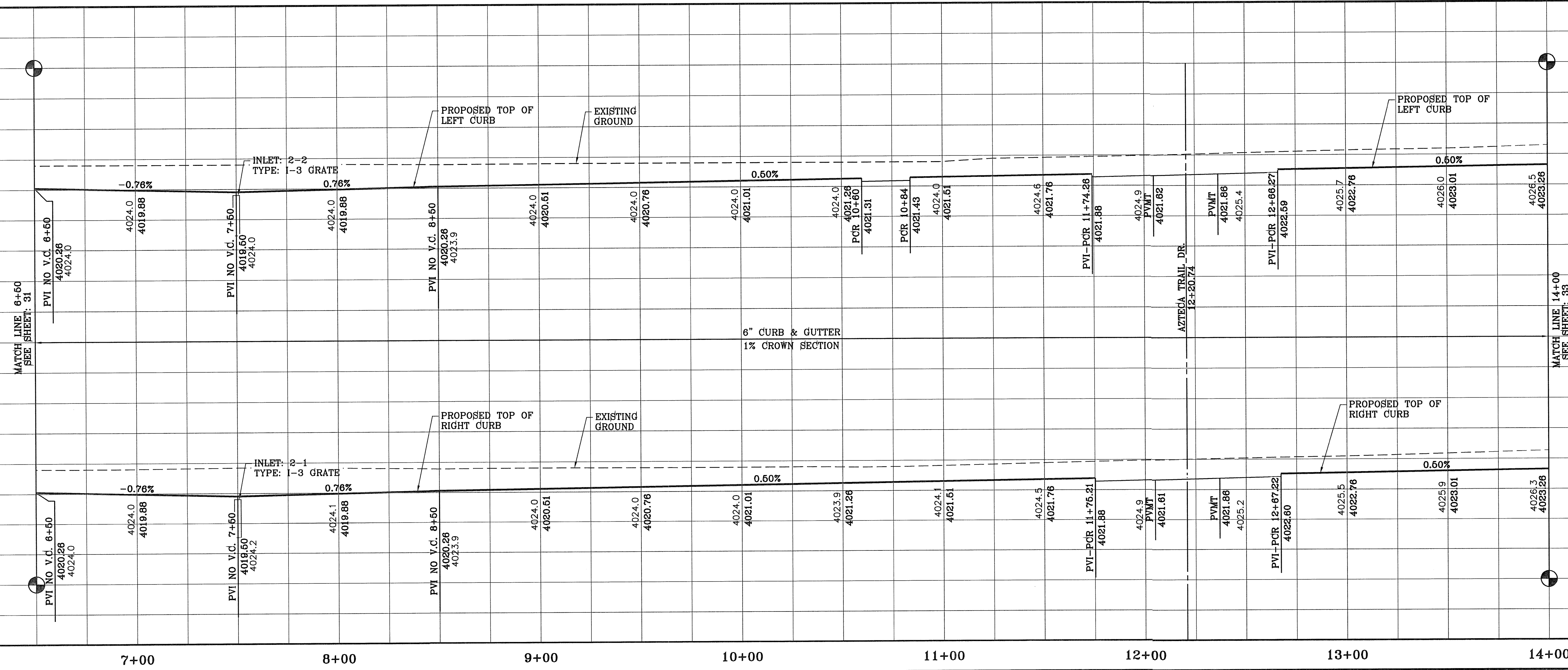


SCALE: 1" = 30'

STREET CARRYING CAPACITY				
STATION	Q <sub>o</sub> CFS	Q <sub>ave</sub> CFS	Velocity	Depth
8+00.00	45.81	49.81	3.68	0.48'

SEE SHEET 91 FOR DRAINAGE STRUCTURE #2

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C15	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C16	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C17	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C18	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



**TERRA DEL ESTE UNIT SIXTY SEVEN**

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT NAD88 DATUM ELEVATION 4017.47'

PROJECT NAME: TIERRA DEL ESTE UNIT SIXTY SEVEN

BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT NAD88 DATUM ELEVATION 4017.47'

DATE: 10/3/11  
REVISIONS AS PER 8/24/11 REDLINES O.M.  
DATE: 11/1/11  
REVISIONS AS PER 10/19/11 REDLINES O.M.

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 106.854± ACRES

S C A L E  
HORIZ: 1" = 30'  
VERT: 1" = 10'

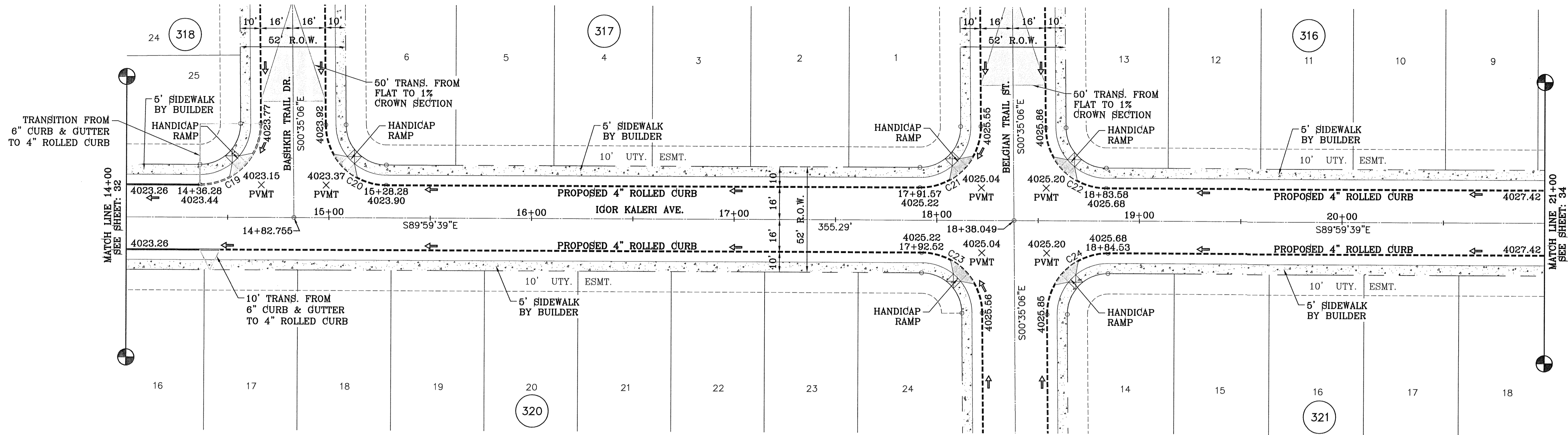
DATE: MAY 2012  
DESIGN BY: JC  
INITIATED BY: BFO/OM  
CHECKED BY: JC  
JOB NO.: 1110-18

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. SITE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 582-0283  
FAX: (915) 582-0286

SHEET TITLE  
**STREET PLAN-PROFILE**  
**IGOR KALERI AVE.**  
STA. 6+50 TO 14+00

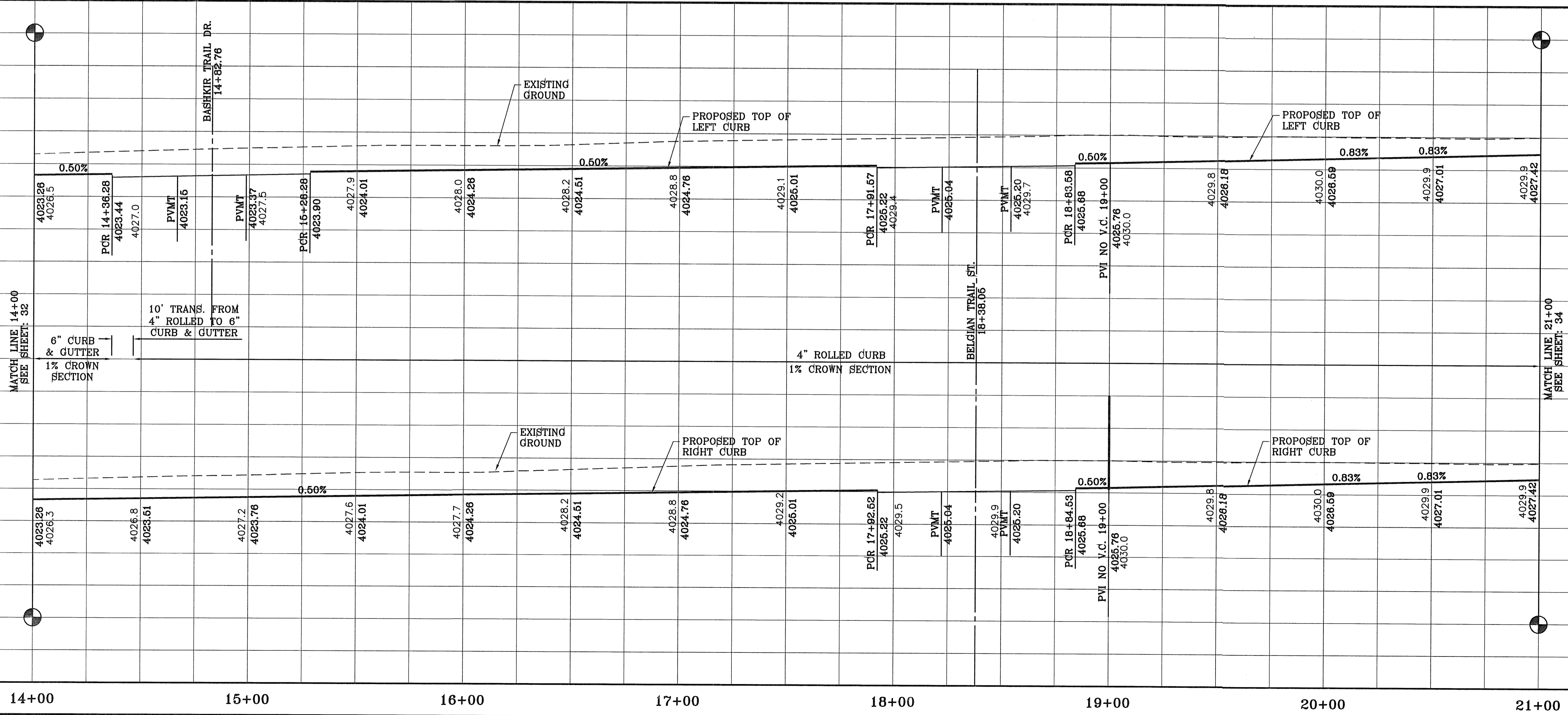
SHT 32 OF 112

FILE LOCATION S:\Subdivisions\TDE 67\DWG\TDE267-PP03\_PERCHERON-IGOR PLOTTED ON Thursday, August 23, 2012 9:01:17 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C19	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C20	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C21	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C22	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C23	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C24	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47
DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
	O.M.
	O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BRING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

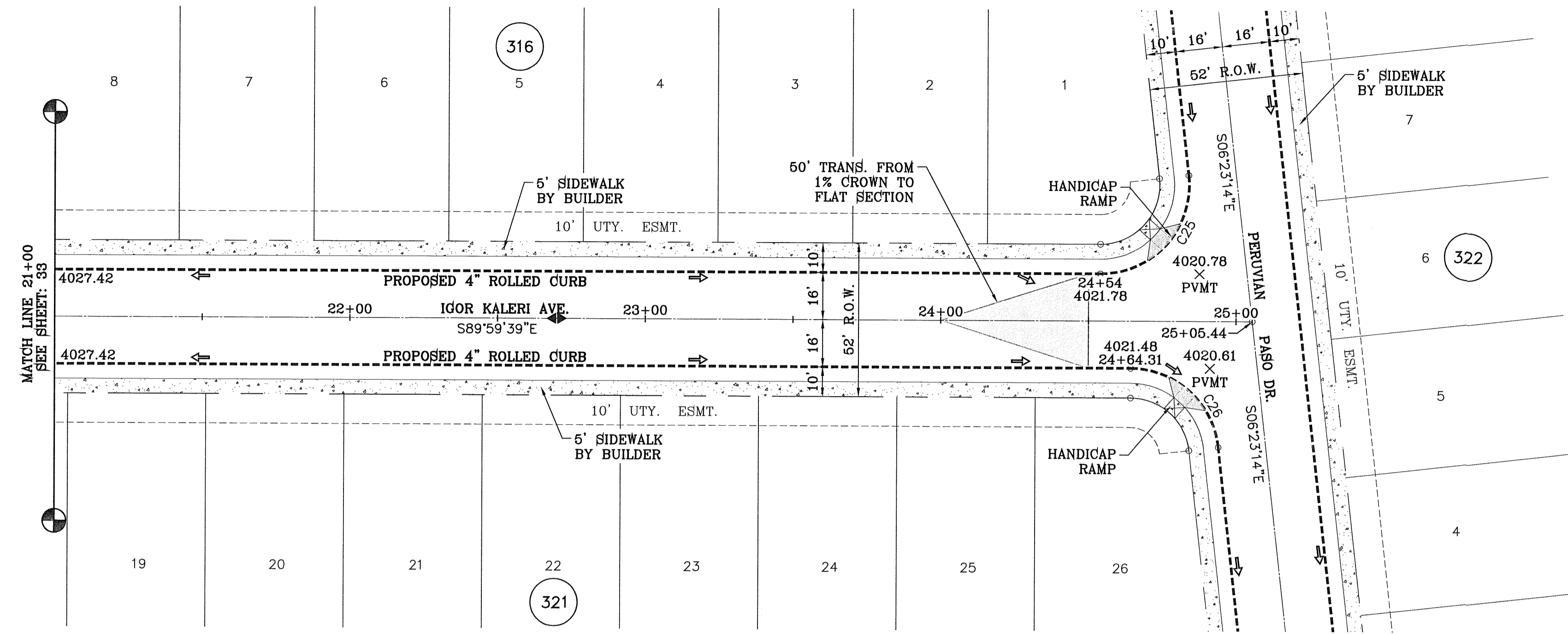
ENGINEER'S SEAL  
S C A L E  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0293  
FAX: (915) 592-0266

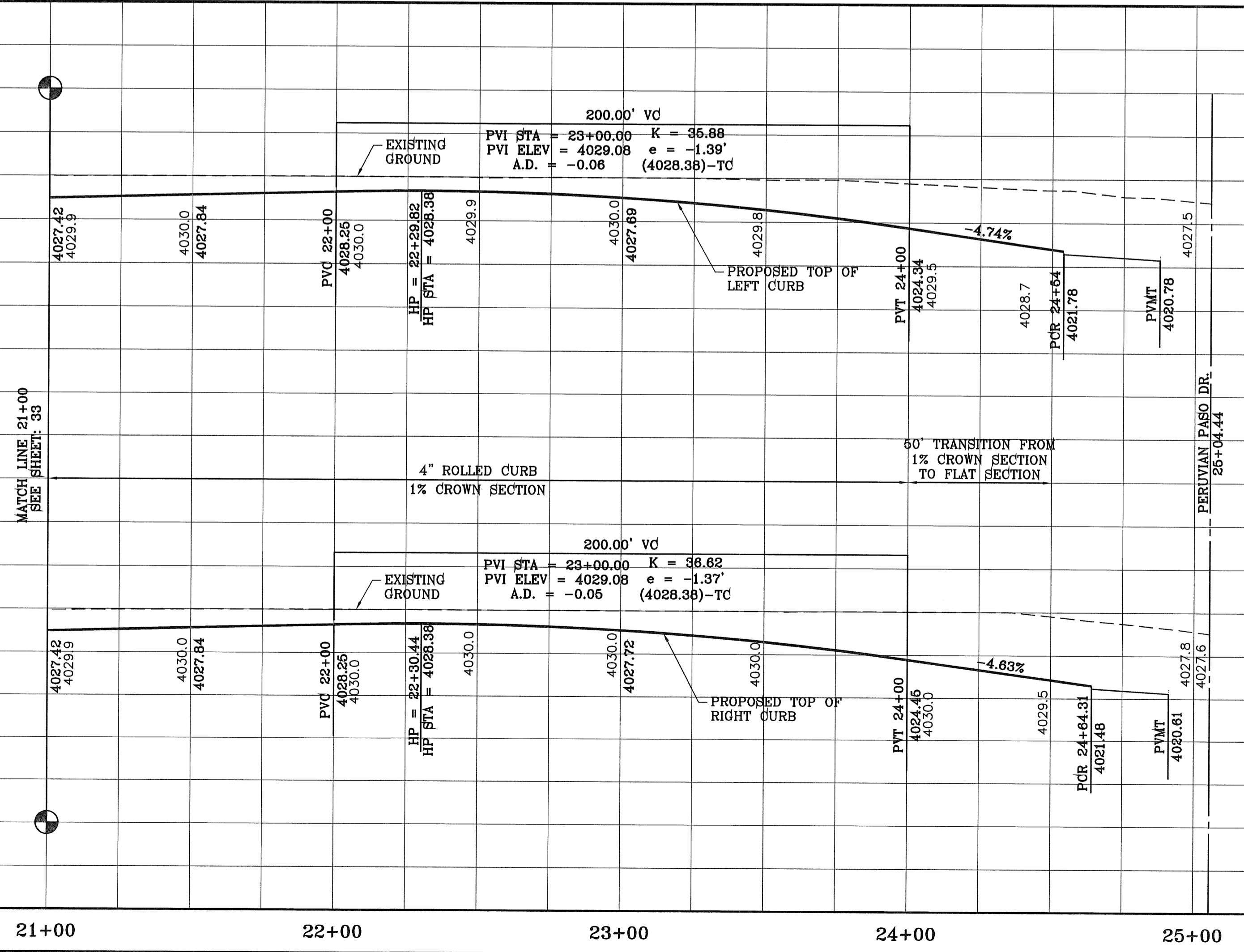
SHEET TITLE  
**STREET PLAN-PROFILE**  
**IGOR KALERI AVE.**  
STA. 14+00 TO 21+00



FILE LOCATION S:\Subdivisions\IDE 67\DWG\IDE67-PP03\_PERCHERON-IGOR PLOTTED ON Thursday, August 23, 2012 9:01:22 AM BY OSCAR MEDINA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C25	30.00'	50.47'	33.55'	44.73'	N41°48'33"E	96°23'34"
C26	30.00'	43.78'	26.83'	39.99'	N48°11'27"W	83°36'26"



TIERRA DEL ESTE UNIT SIXTY SEVEN

**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0263  
 FAX: (915) 592-0266

**IGOR KALERI AVE.**  
 STA. 21+00 TO 25+05.44

SHT 34 OF 112

**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
 BRING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS. CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

**PROJECT NAME**  
 TIERRA DEL ESTE UNIT SIXTY SEVEN

**CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47**

**REVISIONS**

DATE	BY	REVISIONS
10/3/11	YC	REVISIONS AS PER 9/24/11 REDLINES
11/1/11	YC	REVISIONS AS PER 10/19/11 REDLINES

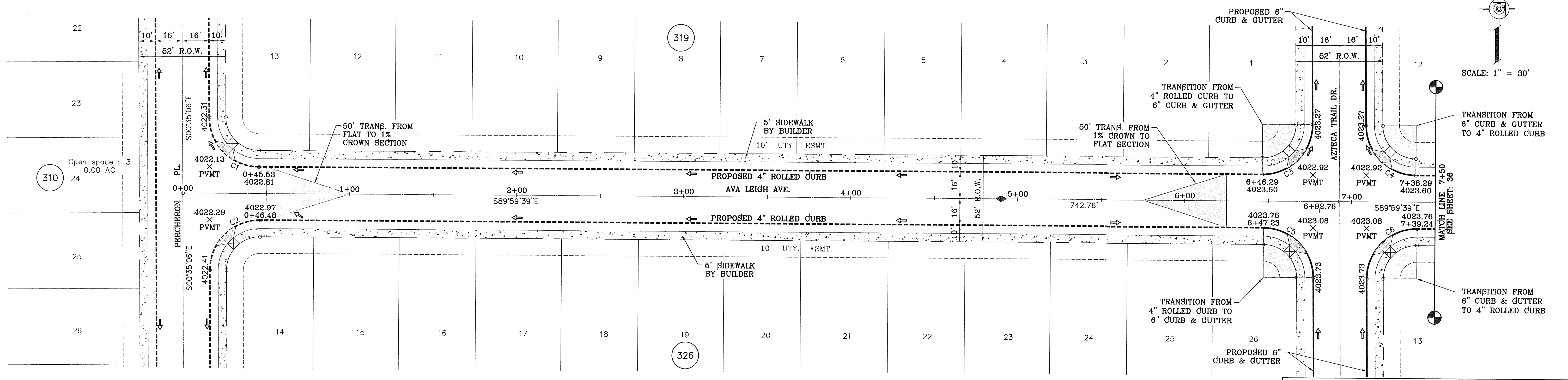
**SCALE**  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'

**DESIGN BY:** YC  
**INITIATED BY:** EFO/OM  
**CHECKED BY:** YC  
**JOB NO.:** 1110-18

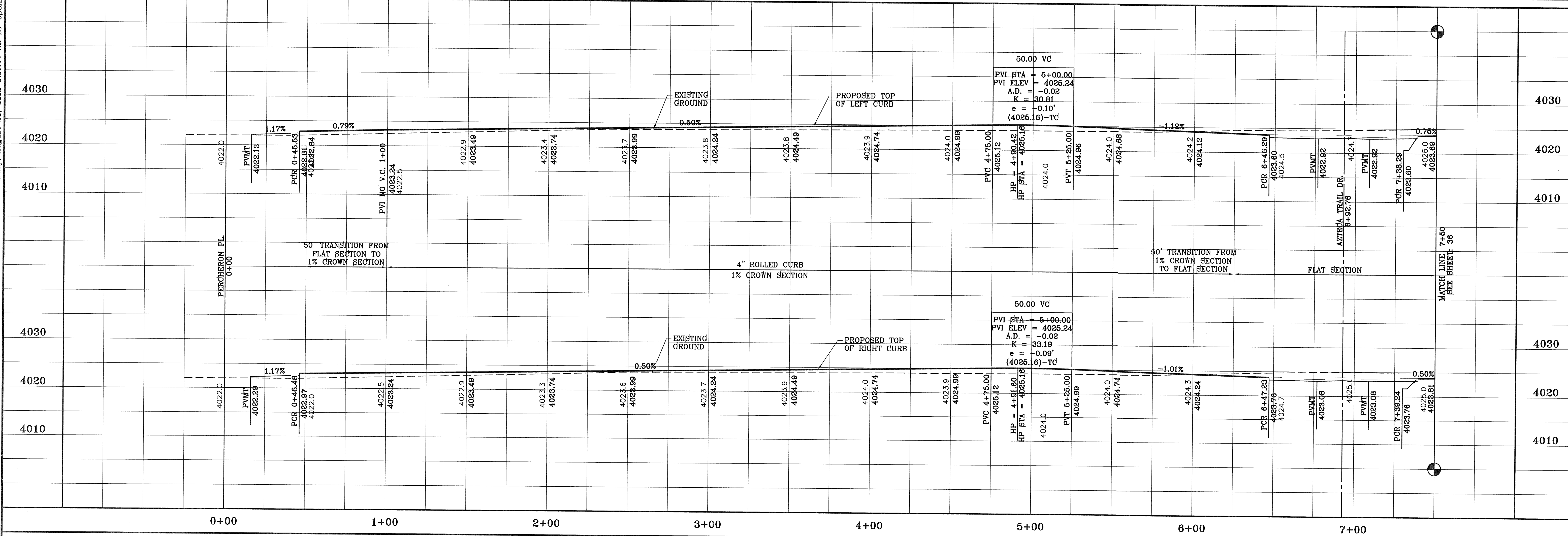
**ENGINEER'S SEAL**

**BENCHMARK**  
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

FILE LOCATION S:\Subdivisions\TDE 67 DRG\TDE67-PP04\_AVA LEIGH PLOTTED ON Thursday, August 23, 2012 9:01:44 AM BY OSCAR MEDINA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C2	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C3	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C4	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C5	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C6	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47
DATE	10/3/11
REVISIONS	REVISIONS AS PER 8/24/11 REDLINES
BY	O.M.
	O.M.

**PROJECT NAME**  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

**SCALE**  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'

DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: EFG/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

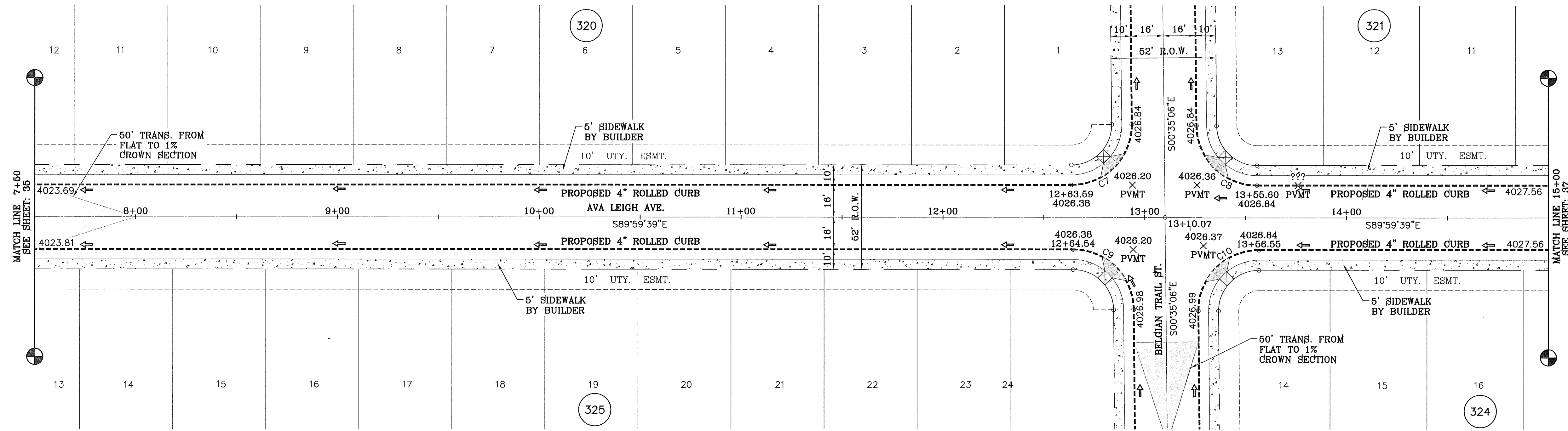
**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. SITE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**CONDE INC.**  
 REGISTRATION NO. F-321

**SHEET TITLE**  
 STREET  
 PLAN-PROFILE

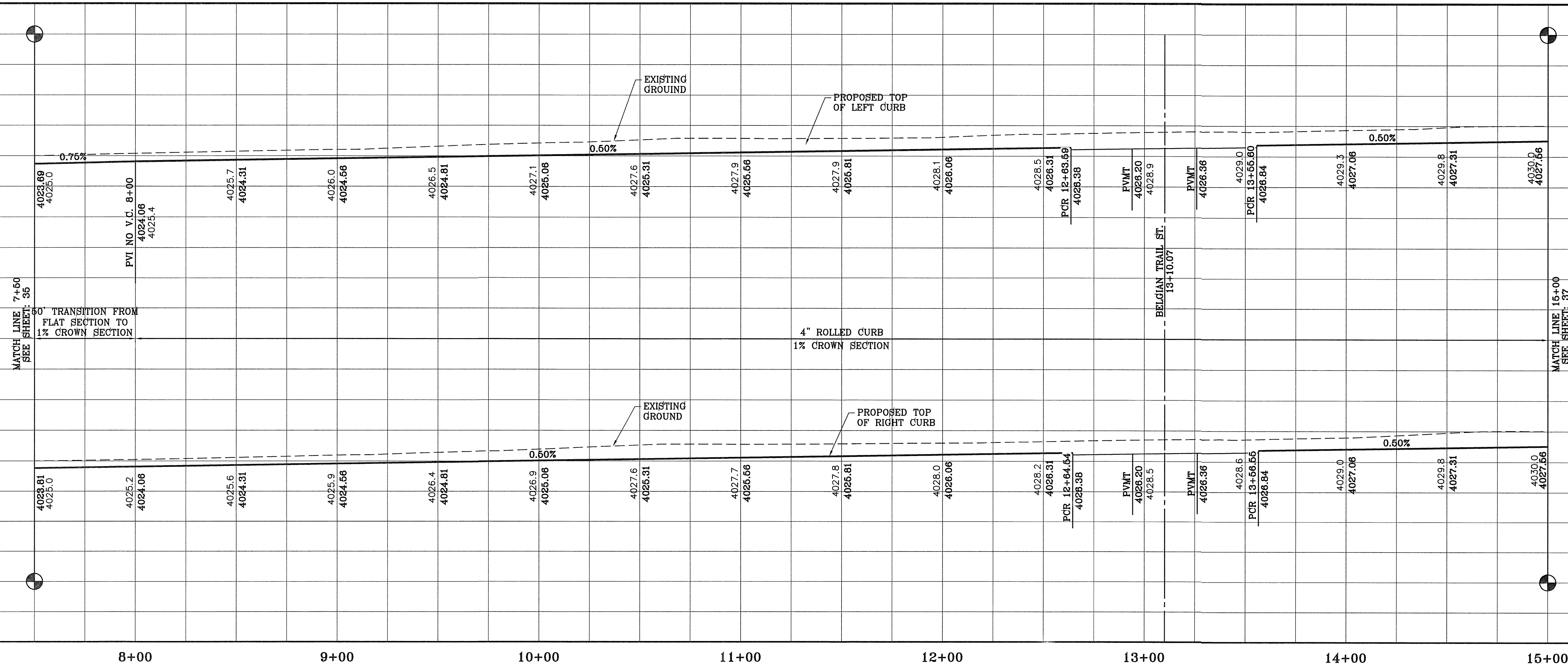
**AVA LEIGH AVE.**  
 STA. 0+00  
 TO 7+50

FILE LOCATION S:\Subdivisions\TDE 67.DWG\TDE67-PP04\_AVA LEIGH PLOTTED ON Thursday, August 23, 2012 9:01:52 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C7	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C8	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C9	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C10	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



REVISIONS	
DATE	BY
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES

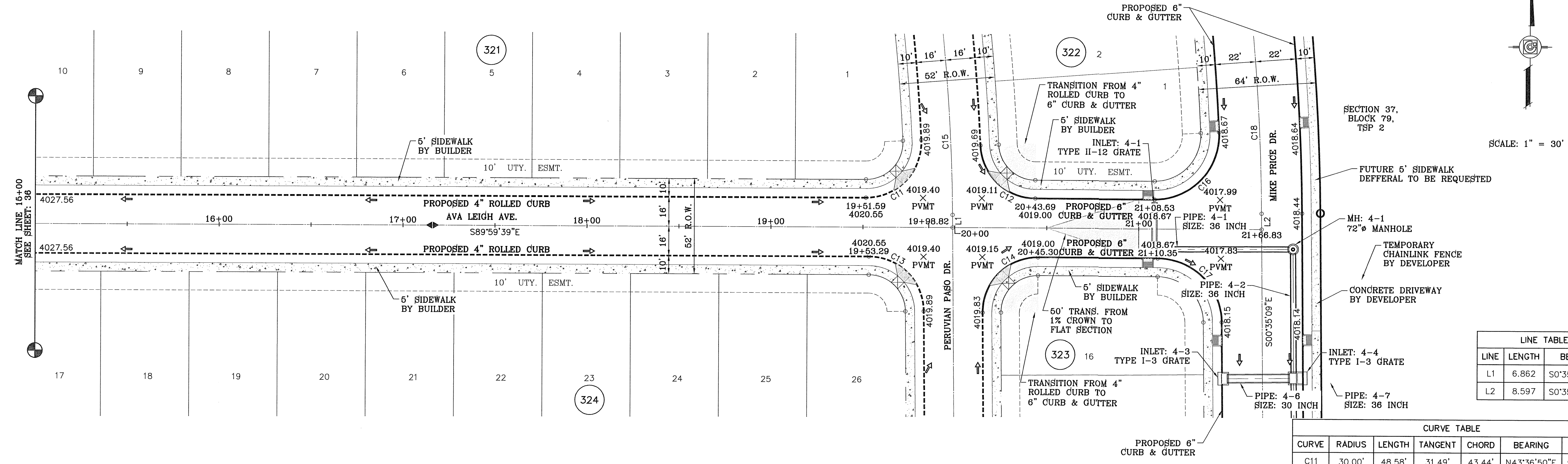
**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2,  
 TEXAS AND PART OF PARCEL 66, SURVEYS  
 CITY OF EL PASO, TEXAS  
 CONTAINING: 166.254± ACRES

**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0285  
 FAX: (915) 592-0286

**CONDE INC.**  
 REGISTRATION No. F-2321

**AVA LEIGH AVE.**  
 STA. 7+50  
 TO 15+00

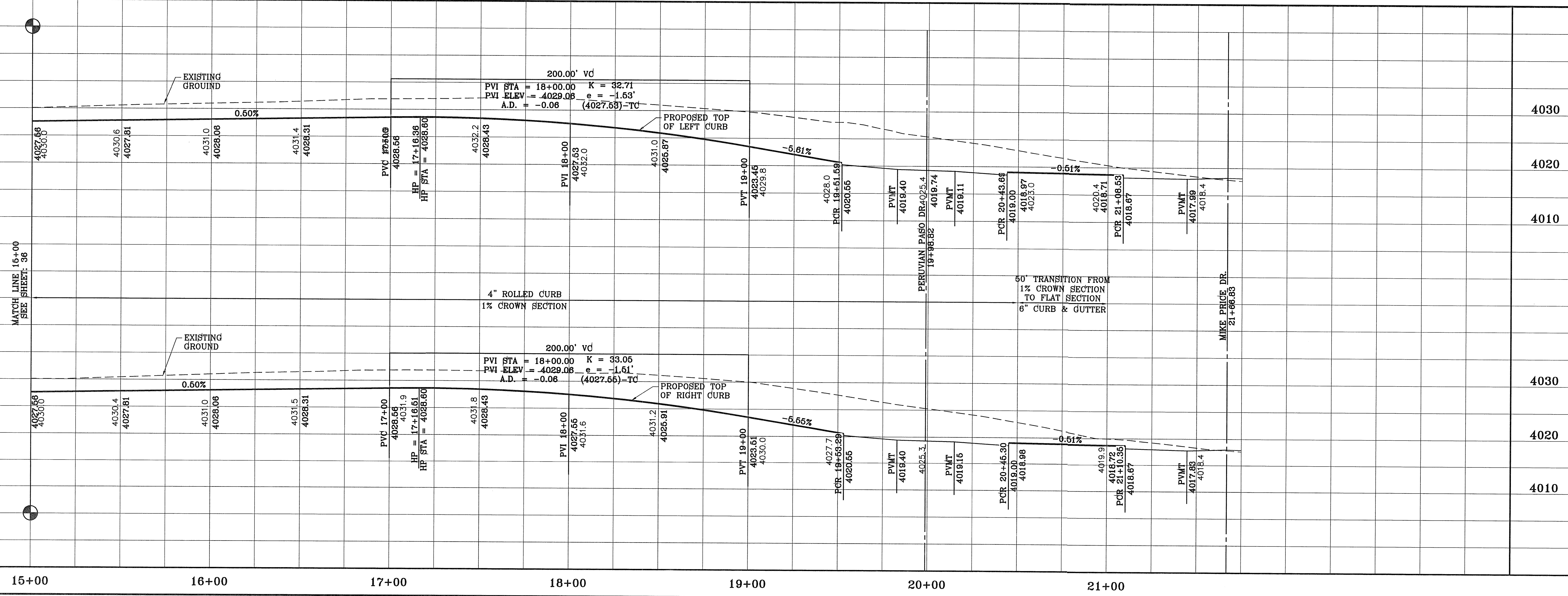
FILE LOCATION S:\Subdivisions\TDE 67\DWG\TDE67-PP04\_AVA LEIGH PLOTTED ON Thursday, August 23, 2012 9:01:57 AM BY OSCAR MEDINA



STREET CARRYING CAPACITY				
STATION	Q <sub>p</sub> CFS	Q <sub>de</sub> CFS	Velocity	Depth
20+75.00	36.88	49.89	3.37	0.43'

LINE TABLE		
LINE	LENGTH	BEARING
L1	6.862	S0°35'09.49"E
L2	8.597	S0°35'09.49"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C11	30.00'	48.58'	31.49'	43.44'	N43°36'50"E	92°47'01"
C12	30.00'	45.79'	28.69'	41.47'	S46°16'21"E	87°26'37"
C13	30.00'	46.81'	29.69'	42.21'	N45°17'24"W	89°24'30"
C14	30.00'	47.43'	30.31'	42.64'	S44°42'36"W	90°35'30"
C15	1082.00'	109.55'	54.82'	109.50'	N3°29'12"W	5°48'04"
C16	35.00'	56.60'	36.66'	50.63'	N43°40'37"E	92°39'26"
C17	35.00'	54.62'	34.64'	49.24'	N45°17'24"W	89°24'30"
C18	1250.00'	126.56'	63.33'	126.51'	N3°29'12"W	5°48'04"



SCALE: 1" = 30'

DATE	REVISIONS	BY	O.M.
10/3/11	REVISIONS AS PER 6/24/11 REDLINES		
11/1/11	REVISIONS AS PER 10/19/11 REDLINES		

**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

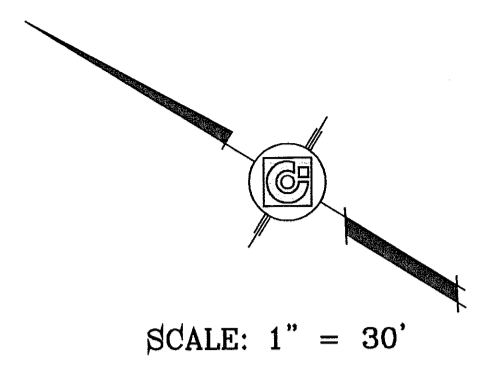
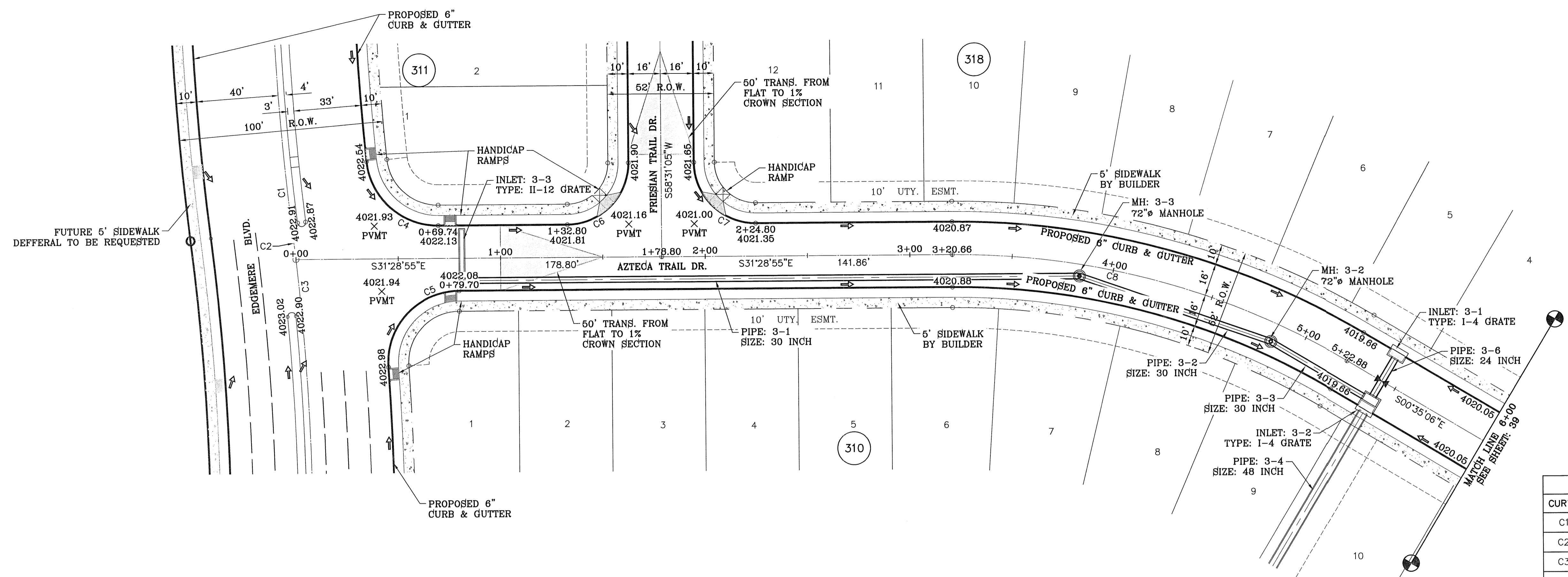
PROJECT NAME  
 S C A L E  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: EFG/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURLEY DR. STE 100  
 EL PASO, TEXAS 79805  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**CONDE INC.**  
 REGISTRATION NO. P-221

SHEET TITLE  
**STREET PLAN-PROFILE**  
**AVA LEIGH AVE.**  
 STA. 15+00 TO 21+66.83

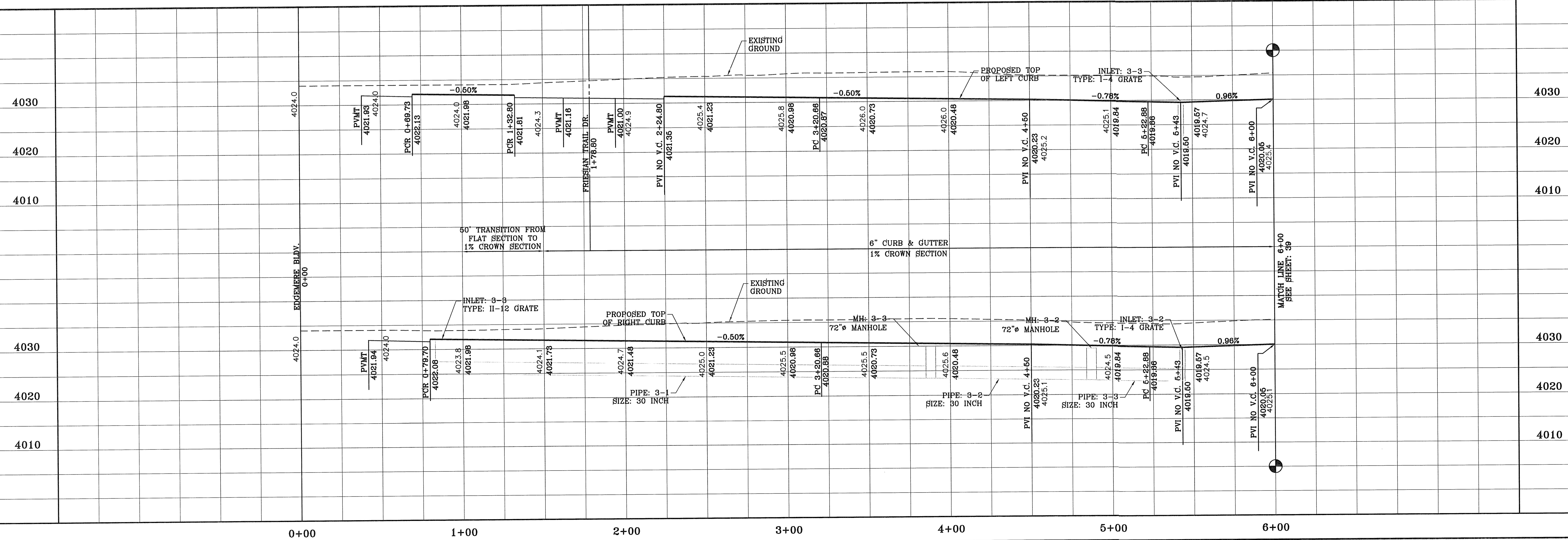
FILE LOCATION S:\\_Subdivisions\TDE 67\_DWC\TDE67-PP05\_AZTECA TRAIL PLOTTED ON Thursday, August 23, 2012 9:02:22 AM BY OSCAR MEDINA



STREET CARRYING CAPACITY				
STATION	Q <sub>0</sub> CFS	Q <sub>10</sub> CFS	Velocity	Depth
4+50.00	32.52	49.89	3.21	0.41'

SEE SHEET 91 FOR DRAINAGE STRUCTURE #3

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	1250.00'	838.10'	435.49'	822.49'	S70°45'38"W	38°24'57"
C2	1250.00'	15.57'	7.78'	15.57'	N51°54'34"E	0°42'49"
C3	1250.00'	823.35'	427.23'	808.54'	N71°08'09"E	37°44'22"
C4	35.00'	51.52'	31.70'	46.99'	S10°41'02"W	84°19'54"
C5	35.00'	57.23'	37.33'	51.06'	N78°19'25"W	93°41'00"
C6	30.00'	47.12'	30.00'	42.43'	S76°28'55"E	90°00'00"
C7	30.00'	47.12'	30.00'	42.43'	S13°31'05"W	90°00'00"
C8	375.00'	202.22'	103.63'	199.78'	N16°02'01"W	30°53'49"



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47' NAVD88 DATUM

DATE	BY	REVISIONS
10/9/11	O.M.	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	O.M.	REVISIONS AS PER 10/19/11 REDLINES

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 67, BLOCK 79, TOWNSHIP 2, AND PACIFIC RAILWAY CO. SURVEY, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 166.254± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EFC/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

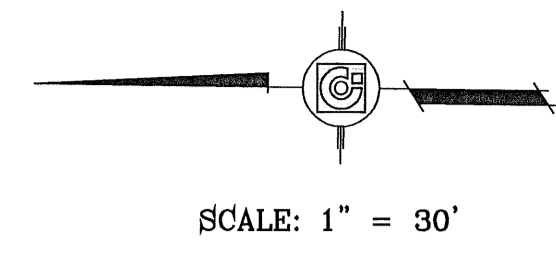
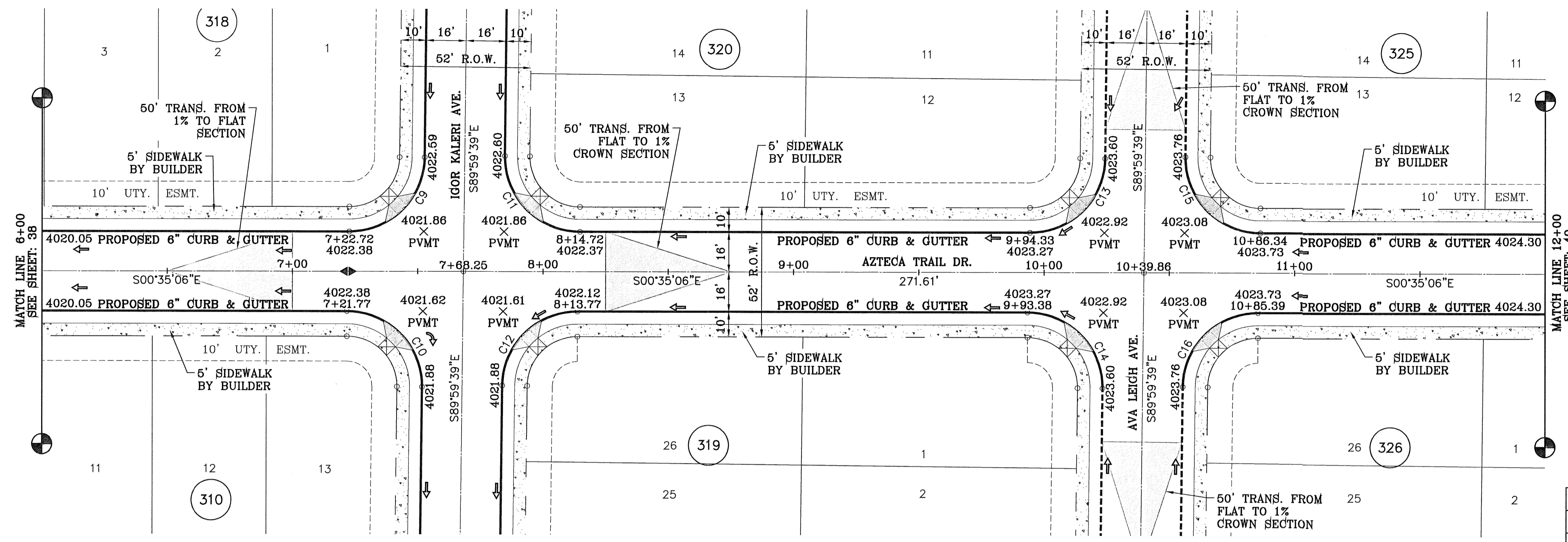
CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN - PROFILE**

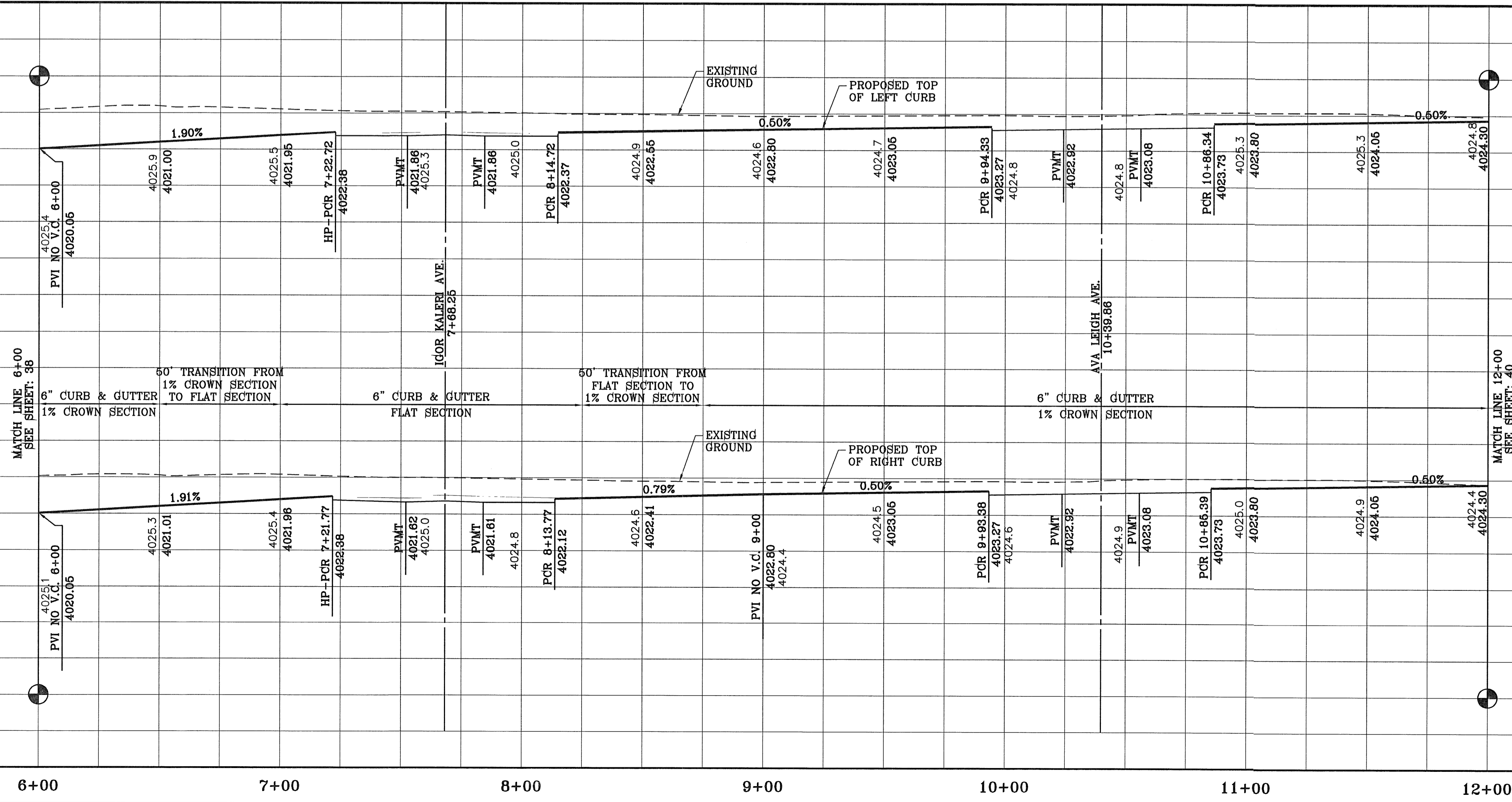
**AZTECA TRAIL DR.**  
STA. 0+00 TO 6+00

SHT 38 OF 112

FILE LOCATION: s:\Subdivision\TDE 87.DWG\VD667-PP08\_AZTECA TRAIL PLOTTED ON Thursday, August 23, 2012 9:02:27 AM BY OSCAR MEDINA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C9	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C10	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C11	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C12	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C13	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C14	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C15	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C16	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47
DATE	REVISIONS
10/9/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
BY	O.M.
	O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF SAN ANTONIO, BEXAR COUNTY, TEXAS. CONTAINING: 166.294± ACRES

SCALE  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'

DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: EFG/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

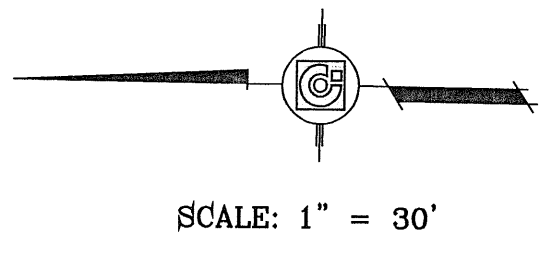
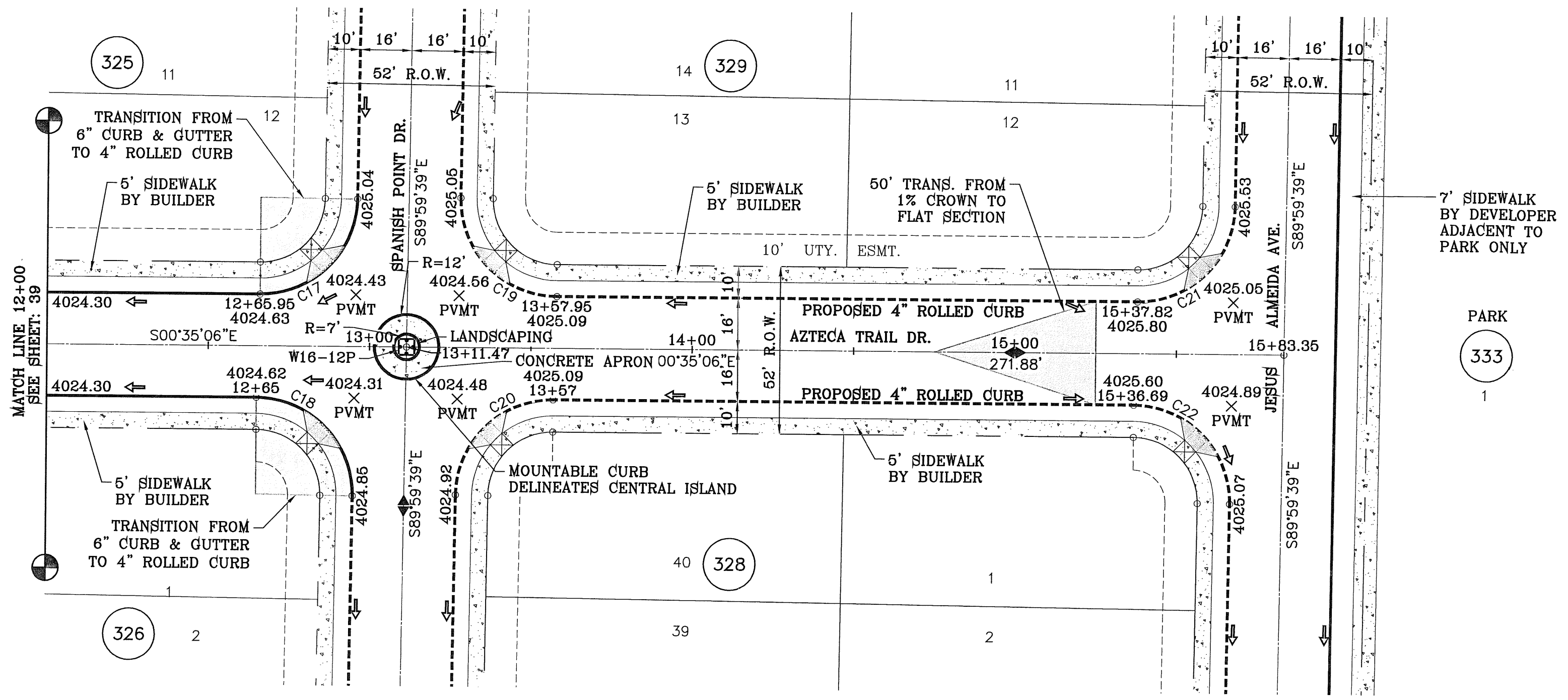
ENGINEER'S SEAL

**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GFS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

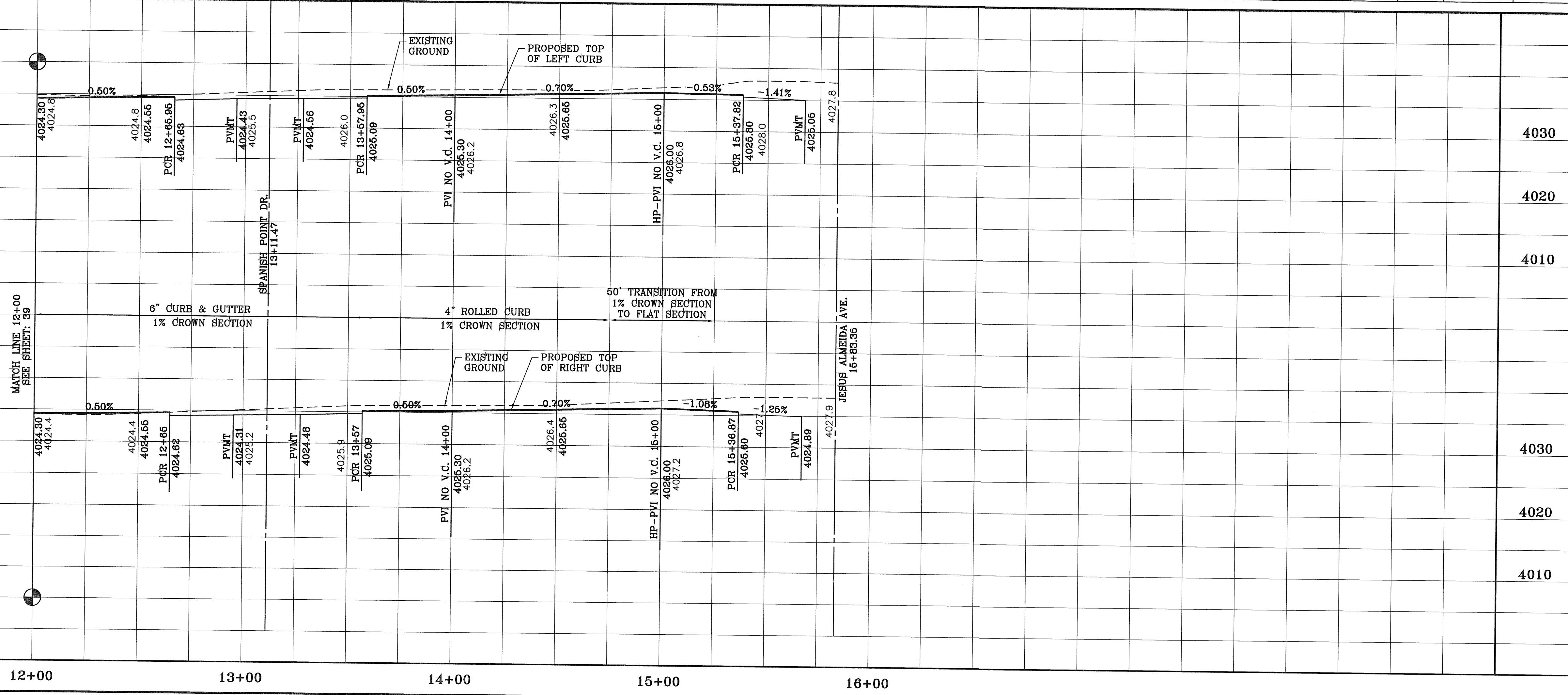
SHEET TITLE  
**STREET PLAN-PROFILE**

**AZTECA TRAIL DR.**  
 STA. 6+00 TO 12+00

FILE LOCATION S:\\_Subdivisions\TDE 67\DWG\TDE67-PP05\_AZTECA TRAIL PLOTTED ON Thursday, August 23, 2012 9:02:32 AM BY OSCAR MEDINA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C17	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C18	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C19	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C20	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C21	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C22	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"



BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.  
ELEVATION 4017.47  
DATE 10/3/11  
REVISIONS AS PER 8/24/11 REDLINES  
BY O.M.  
DATE 11/1/11  
REVISIONS AS PER 10/19/11 REDLINES  
BY O.M.

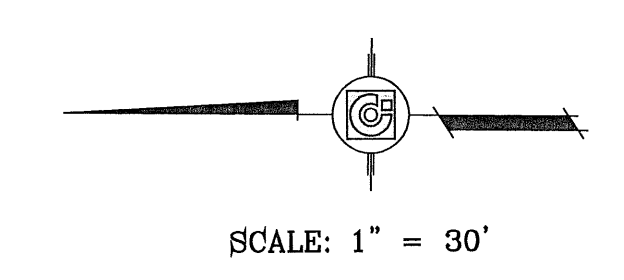
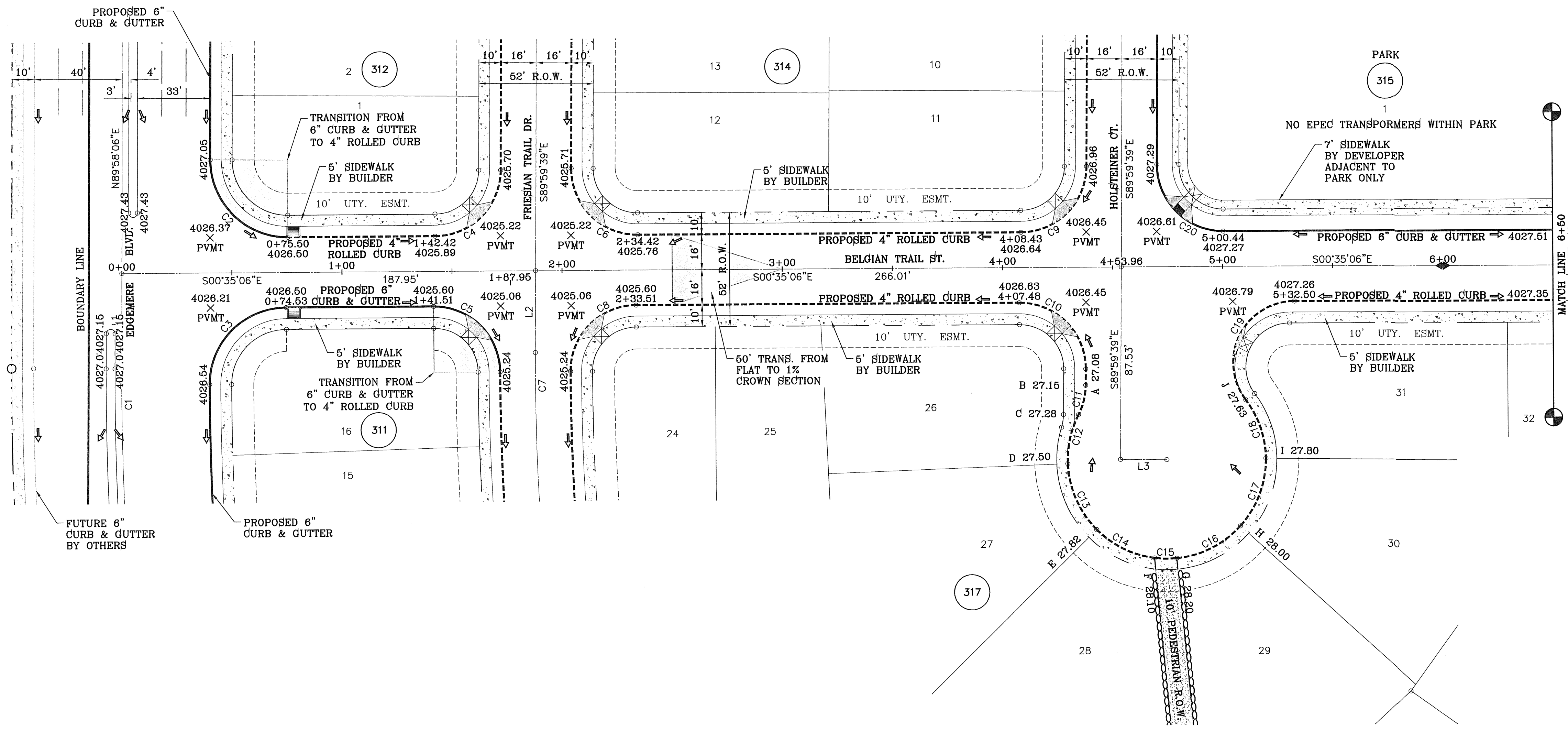
PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY Co. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: BRG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

ENGINEER'S SEAL  
  
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**CONDE INC.**  
REGISTRATION No. F-2321  
SHEET TITLE  
STREET  
**PLAN-PROFILE**  
**AZTECA TRAIL DR.**  
STA. 12+00 TO 16+83.35

FILE LOCATION S:\\_Subdivisions\TDE 67\DWG\TDE67-PP06\_BELGIAN TRAIL PLOTTED ON Thursday, August 23, 2012 9:02:51 AM BY OSCAR MEDINA

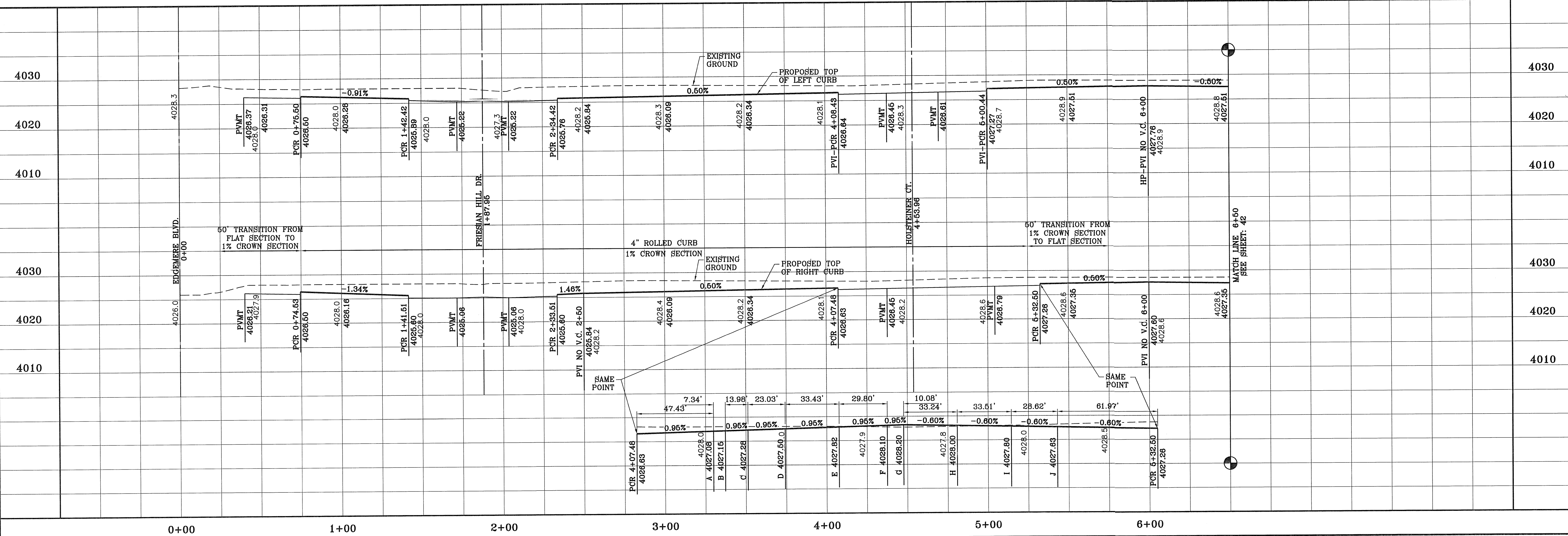


LINE TABLE

LINE	LENGTH	BEARING
L1	43.518	N89°58'06.04"E
L2	37.338	S89°59'39.49"E
L3	21.000	N0°00'20.51"E

CURVE TABLE

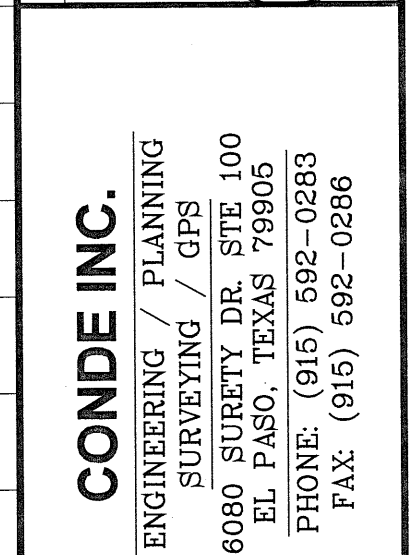
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	1250.00'	838.10'	435.49'	822.49'	S70°45'38"W	38°24'57"
C2	35.00'	55.32'	35.34'	49.74'	S44°41'30"W	90°33'12"
C3	35.00'	54.84'	34.86'	49.40'	N45°28'23"W	89°46'35"
C4	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C5	30.00'	47.19'	30.06'	42.47'	N44°28'36"E	90°07'25"
C6	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C7	1075.00'	466.20'	236.83'	462.56'	S77°34'54"W	24°50'53"
C8	30.00'	47.05'	29.93'	42.38'	N45°31'04"W	89°51'55"
C9	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C10	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C11	30.00'	13.98'	7.12'	13.86'	S76°38'31"E	26°42'17"
C12	45.00'	23.03'	11.77'	22.78'	N77°57'05"W	29°19'26"
C13	45.00'	33.43'	17.53'	32.67'	S66°06'19"W	42°33'45"
C14	45.00'	29.80'	15.47'	29.25'	S25°51'22"W	37°56'10"
C15	45.00'	10.08'	5.06'	10.06'	S0°28'05"W	12°50'23"
C16	45.00'	33.24'	17.42'	32.49'	S27°06'56"E	42°19'40"
C17	45.00'	33.51'	17.58'	32.74'	S69°36'48"E	42°40'05"
C18	45.00'	28.62'	14.82'	28.14'	N70°49'47"E	36°26'45"
C19	28.00'	61.97'	55.92'	50.07'	N63°59'21"W	126°48'30"
C20	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT  
ELEVATION 4017.47  
DATE 10/3/11  
REVISIONS AS PER 9/24/11 REDLINES  
BY O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
BRING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 106.204± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: BFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

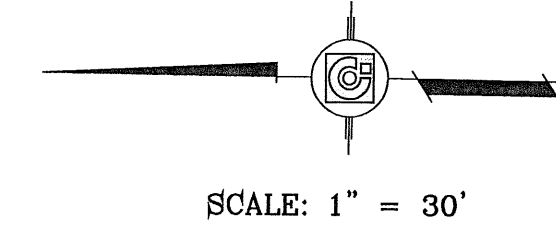
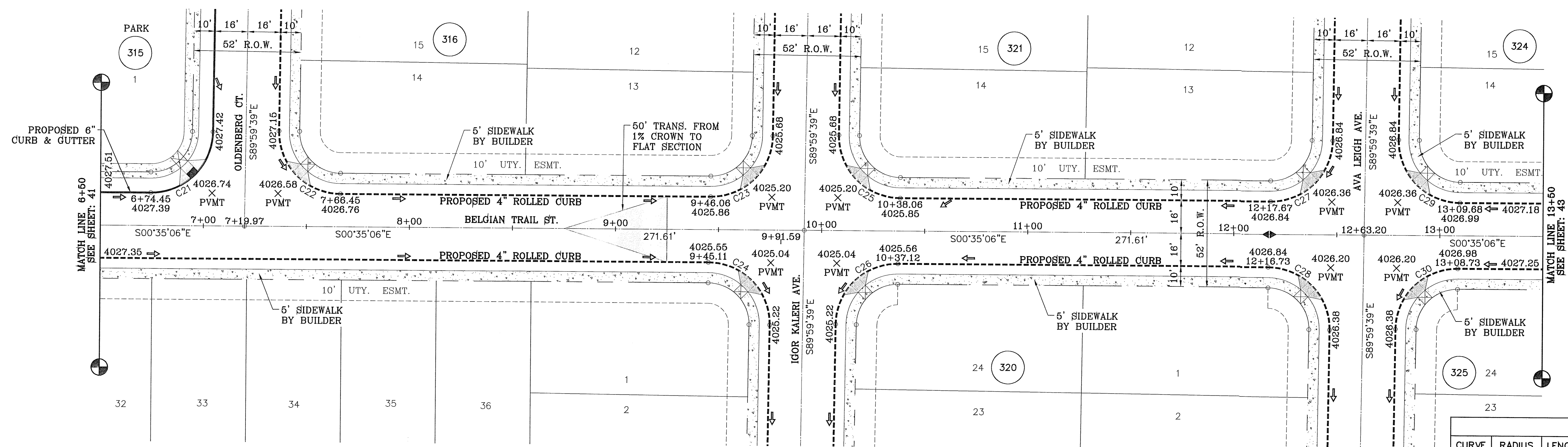


**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURREY DR. SUITE 100  
EL PASO, TEXAS 79960  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

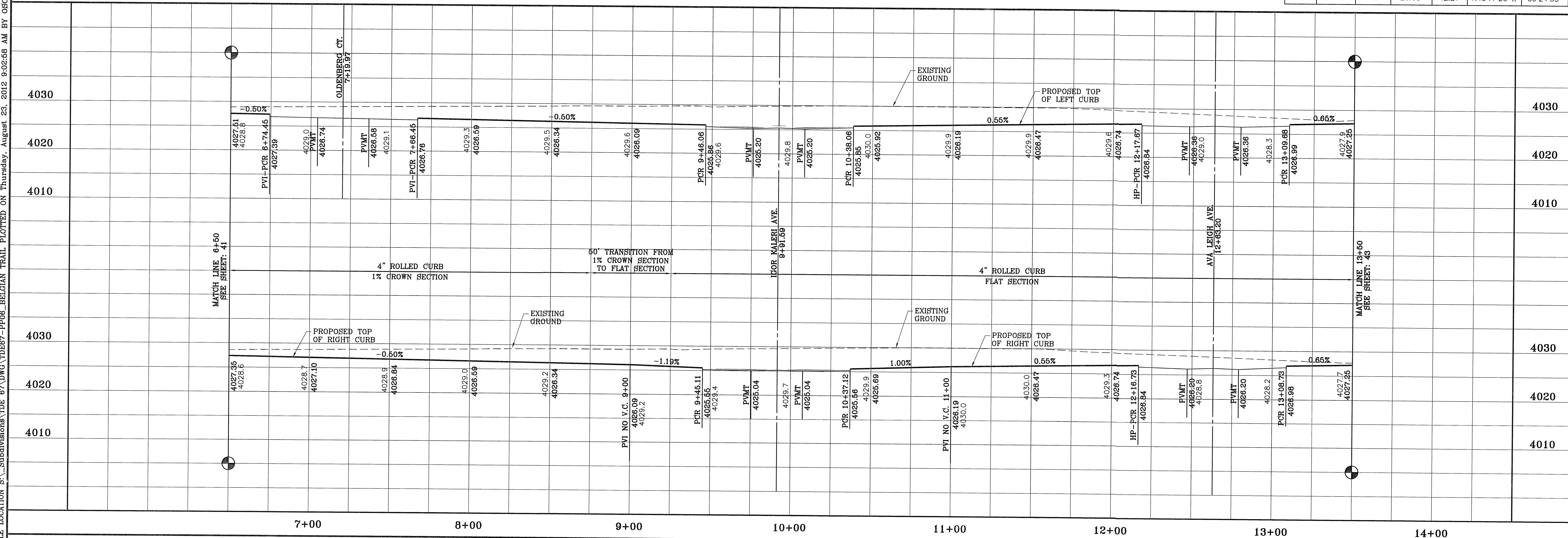
SHEET TITLE  
STREET  
**PLAN - PROFILE**  
**BELGIAN TRAIL ST.**  
STA. 0+00 TO 6+50  
SHT 41 OF 112



FILE LOCATION S:\Subdivisions\TDE 67 DWG\TDE67-PP06-BELGIAN TRAIL PLOTTED ON Thursday, August 23, 2012 9:05:58 AM BY OSCAR MEDINA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C21	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C22	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C23	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C24	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C25	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C26	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C27	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C28	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C29	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C30	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.  
ELEVATION 4017.47

DATE: 10/3/11  
REVISIONS AS PER 9/24/11 REDLINES

DATE: 11/1/11  
REVISIONS AS PER 10/19/11 REDLINES

BY: O.M.  
O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 78, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, COUNTY OF EL PASO, TEXAS CONTAINING: 166.80± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

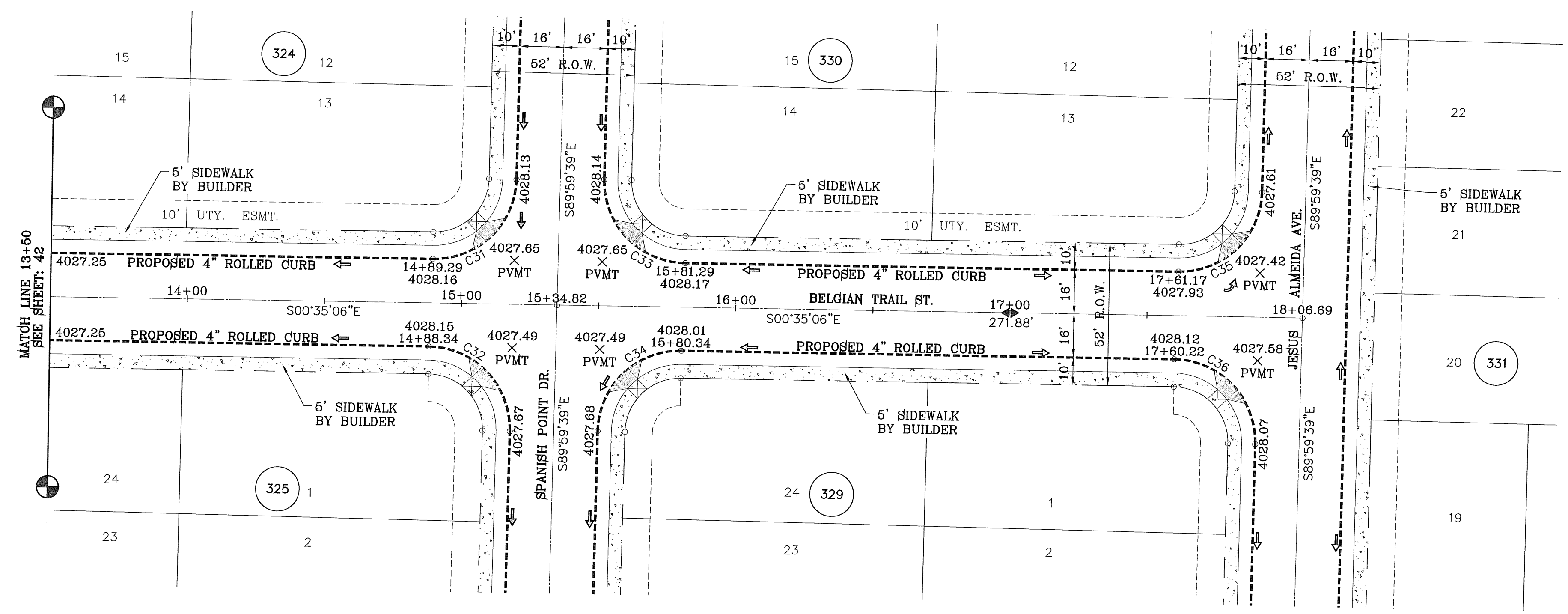
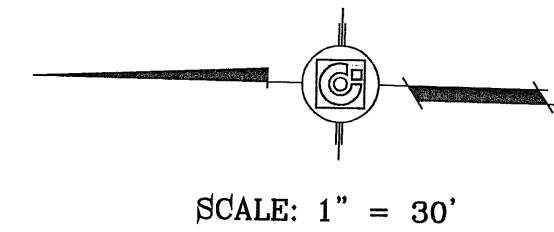
DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EPJ/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

ENGINEER'S SEAL

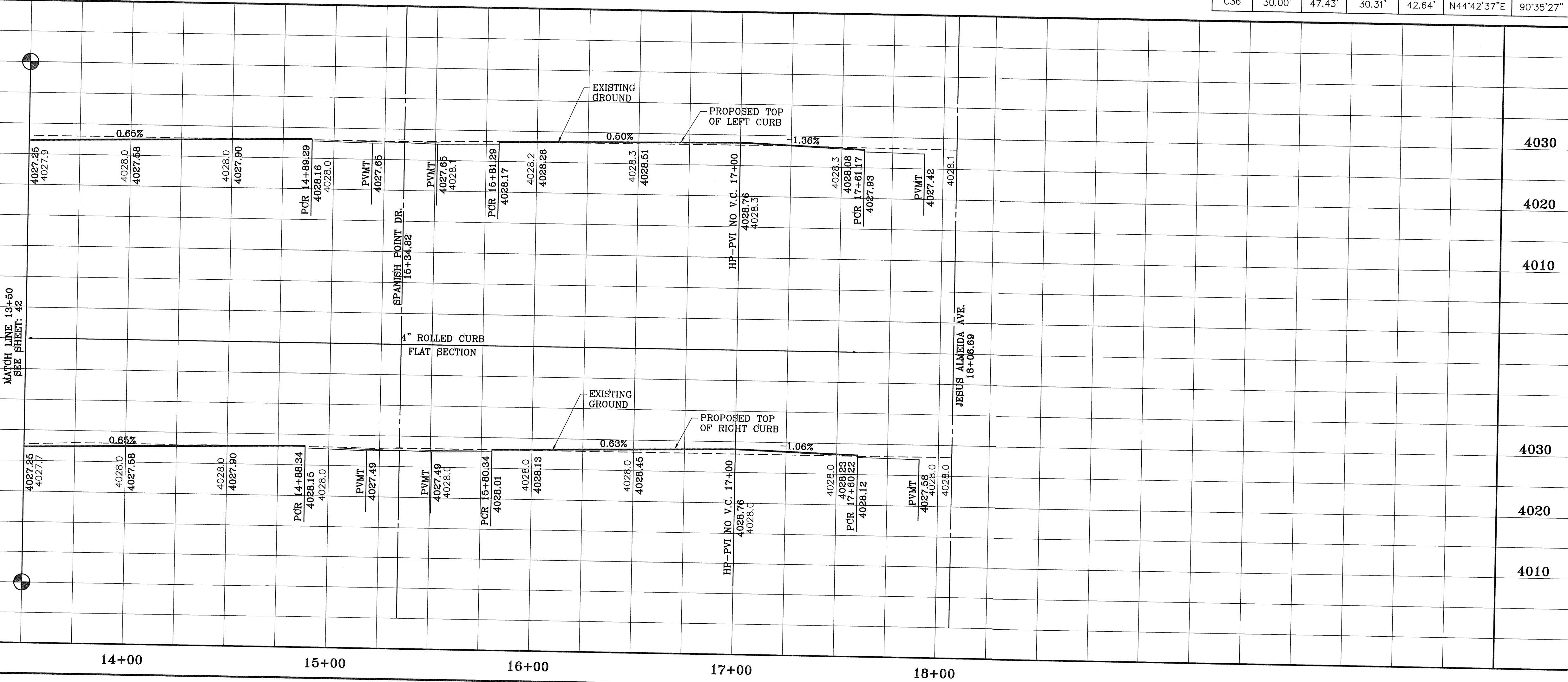
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN-PROFILE**

**BELGIAN TRAIL ST.**  
STA. 6+50 TO 13+50



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C31	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C32	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C33	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C34	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C35	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C36	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47'
DATE	10/3/11
BY	O.M.
REVISIONS	REVISIONS AS PER 8/24/11 REDLINES
DATE	11/1/11
BY	O.M.
REVISIONS	REVISIONS AS PER 10/19/11 REDLINES
DATE	
BY	O.M.
REVISIONS	REVISIONS AS PER 10/19/11 REDLINES
DATE	
BY	O.M.

**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR, STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**CONDE INC.**  
REGISTRATION No. P-3311

SHEET TITLE  
**STREET PLAN-PROFILE**

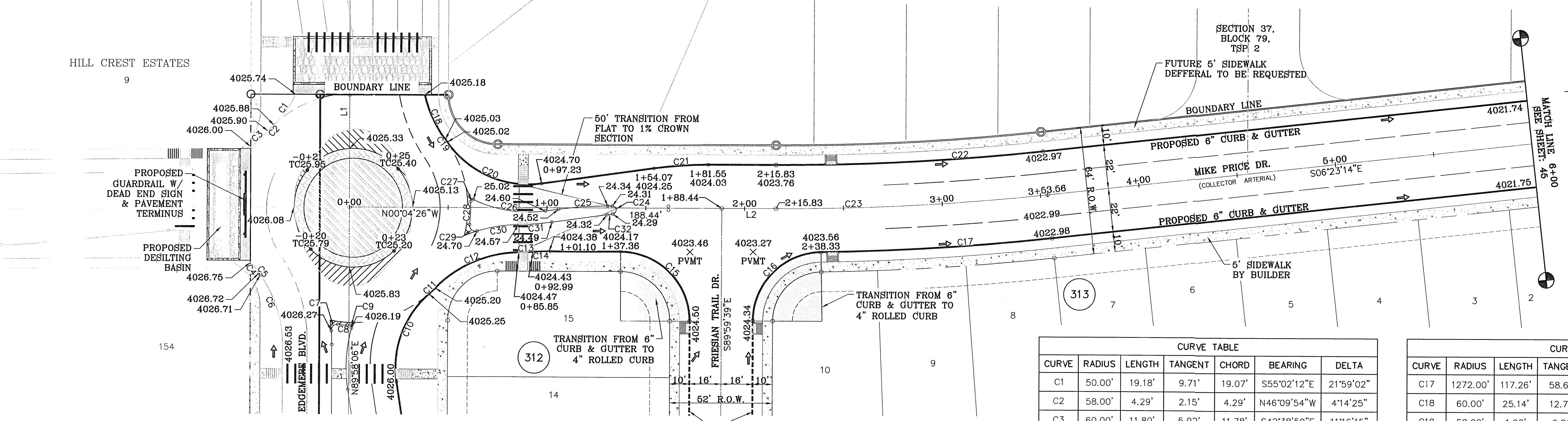
**BELGIAN TRAIL ST.**  
STA. 13+50 TO 18+06.69

FILE LOCATION S:\Subdivisions\TDE 67\DWG\TDE67-PP06 BELGIAN TRAIL PLOTTED ON Thursday, August 23, 2012 9:03:02 AM BY OSCAR MEDINA

HILL CREST ESTATES  
9

SECTION 37,  
BLOCK 79,  
TSP 2

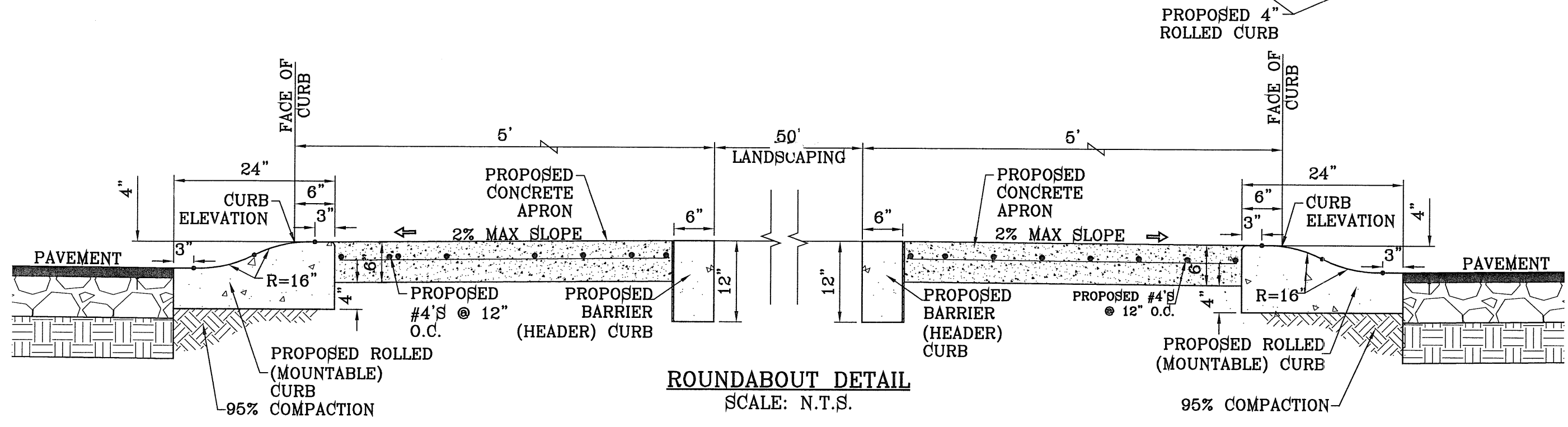
SCALE: 1" = 30'



LINE TABLE		
LINE	LENGTH	BEARING
L1	57.044	N89°58'06.04"E
L2	27.391	N0°04'25.99"W

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	50.00'	19.18'	9.71'	19.07'	S55°02'12"E	21°59'02"
C2	58.00'	4.29'	2.15'	4.29'	N46°09'54"W	4°14'25"
C3	60.00'	11.80'	5.92'	11.78'	S42°38'59"E	11°16'15"
C4	50.00'	6.91'	3.46'	6.91'	N51°11'38"E	7°55'20"
C5	58.00'	1.13'	0.56'	1.13'	S54°35'55"W	1°06'45"
C6	60.00'	37.62'	19.45'	37.01'	N72°00'19"E	35°55'33"
C7	3.00'	5.34'	3.70'	4.66'	N43°46'48"W	101°55'45"
C8	59.50'	5.98'	2.99'	5.98'	S4°18'23"W	5°45'24"
C9	1.00'	1.82'	1.28'	1.58'	N53°26'16"E	104°01'10"
C10	50.00'	49.74'	27.15'	47.72'	N70°07'53"W	57°00'07"
C11	58.00'	4.33'	2.16'	4.32'	S43°46'01"E	4°16'24"
C12	60.00'	47.26'	24.93'	46.05'	N23°20'24"W	45°07'38"
C13	148.50'	7.15'	3.57'	7.14'	S2°09'17"E	2°45'25"
C14	134.50'	8.12'	4.06'	8.12'	N1°48'13"W	3°27'34"
C15	35.00'	55.03'	35.05'	49.53'	N44°57'57"E	90°04'46"
C16	35.00'	54.30'	34.33'	49.02'	N45°33'00"W	88°53'20"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C17	1272.00'	117.26'	58.67'	117.21'	S3°44'47"E	5°16'54"
C18	60.00'	25.14'	12.76'	24.96'	S65°17'03"W	24°00'36"
C19	58.00'	1.62'	0.81'	1.62'	N54°04'39"E	1°35'49"
C20	50.00'	54.84'	30.55'	52.14'	S23°27'09"W	62°50'49"
C21	200.00'	27.57'	13.80'	27.54'	N4°01'21"W	7°53'50"
C22	1228.00'	135.31'	67.72'	135.24'	S3°13'50"E	6°18'48"
C23	1250.00'	137.73'	68.94'	137.66'	S3°13'50"E	6°18'48"
C24	2.00'	6.03'	3.169'	3.99'	N86°18'52"E	172°46'36"
C25	181.25'	24.98'	12.51'	24.96'	N4°01'21"W	7°53'50"
C26	64.00'	37.33'	19.21'	36.80'	S8°44'23"W	33°25'17"
C27	1.00'	2.07'	1.69'	1.72'	N33°54'26"W	118°42'54"
C28	59.50'	11.58'	5.81'	11.56'	S87°41'19"E	11°09'06"
C29	3.00'	6.03'	4.72'	5.06'	S40°19'05"W	115°08'18"
C30	74.00'	21.28'	10.71'	21.20'	N9°00'50"W	16°28'30"
C31	134.50'	16.89'	8.46'	16.88'	S4°22'25"E	7°11'41"
C32	250.00'	2.94'	1.47'	2.94'	N7°38'03"W	0°40'25"

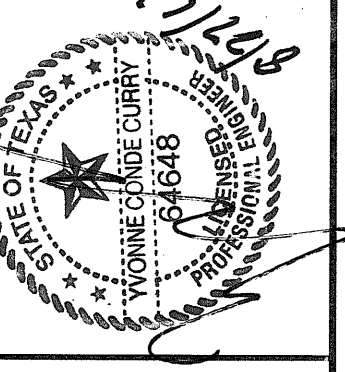


ROUNDABOUT DETAIL  
SCALE: N.T.S.

BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF  
JOHN HAYES ST. AND SPANISH POINT LN.  
ELEVATION 4017.47  
DATE  
10/3/11  
11/1/11  
REVISIONS  
AS PER 8/24/11 REDLINES  
AS PER 10/19/11 REDLINES

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**  
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2,  
TEXAS AND PACIFIC RAILWAY CO. SURVEYS  
CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 166.254+ ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

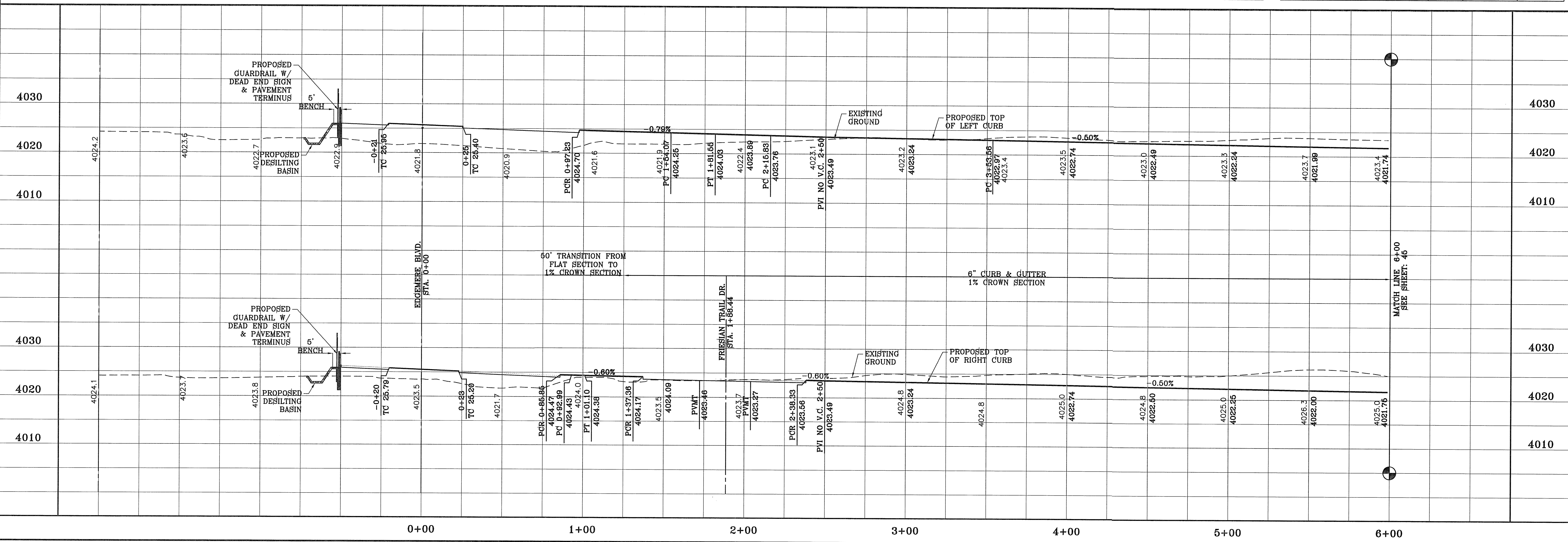


**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURELY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

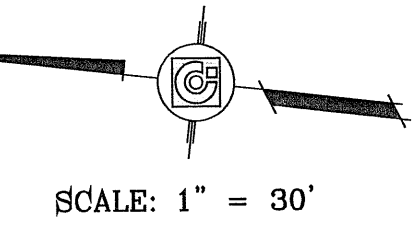
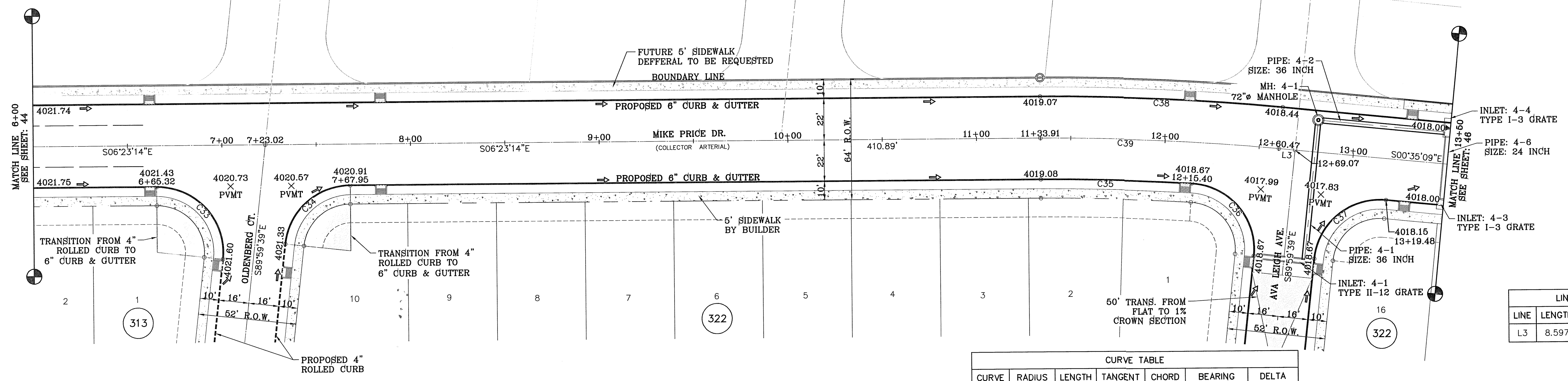


SHEET TITLE  
**STREET PLAN-PROFILE**  
**MIKE PRICE DR.**  
STA. 0+00 TO 6+00

FILE LOCATION S:\Subdivisions\TDE\_67\DWG\TDE67-PP07\_MIKE PRICE PLOTTED ON Thursday, August 23, 2012 9:03:30 AM BY OSCAR MEDINA



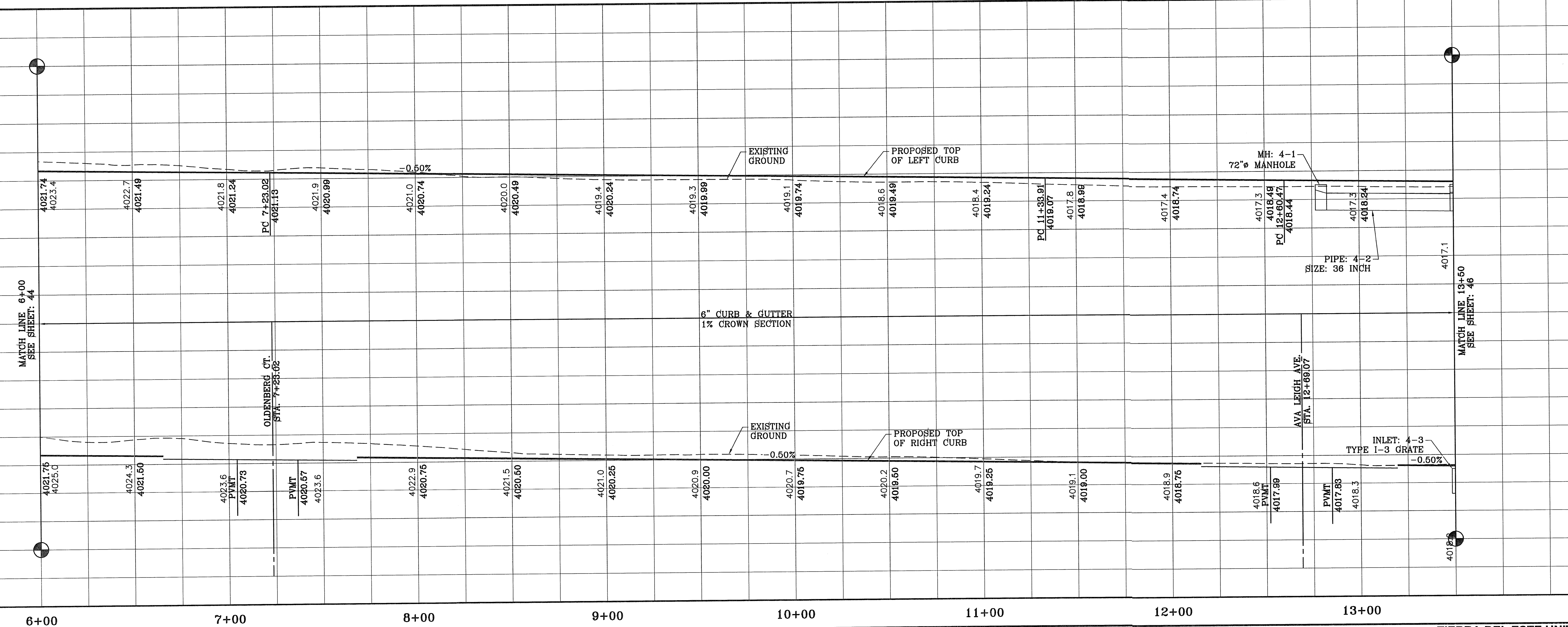
FILE LOCATION S:\Subdivisions\DE 67.DWG\DE67-PP07\_MIKE\_PRICE\_PLOTTED ON Thursday, August 23, 2012 9:03:40 AM BY OSCAR MEDINA



LINE TABLE		
LINE	LENGTH	BEARING
L3	8.597	S0°35'09.49"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C33	35.00'	58.88'	39.14'	52.18'	N41°48'33"E	96°23'34"
C34	35.00'	51.07'	31.30'	46.66'	N48°11'27"W	83°36'26"
C35	1228.00'	80.06'	40.04'	80.05'	N4°31'10"W	3°44'08"
C36	35.00'	56.60'	36.66'	50.63'	N43°40'37"E	92°39'26"
C37	35.00'	54.62'	34.64'	49.24'	N45°17'24"W	89°24'30"
C38	1272.00'	128.79'	64.45'	128.73'	N3°29'12"W	5°48'04"
C39	1250.00'	126.56'	63.33'	126.51'	N3°29'12"W	5°48'04"

SEE SHEET 92A FOR DRAINAGE STRUCTURE #4



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47

**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

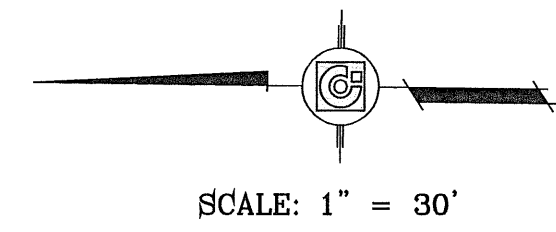
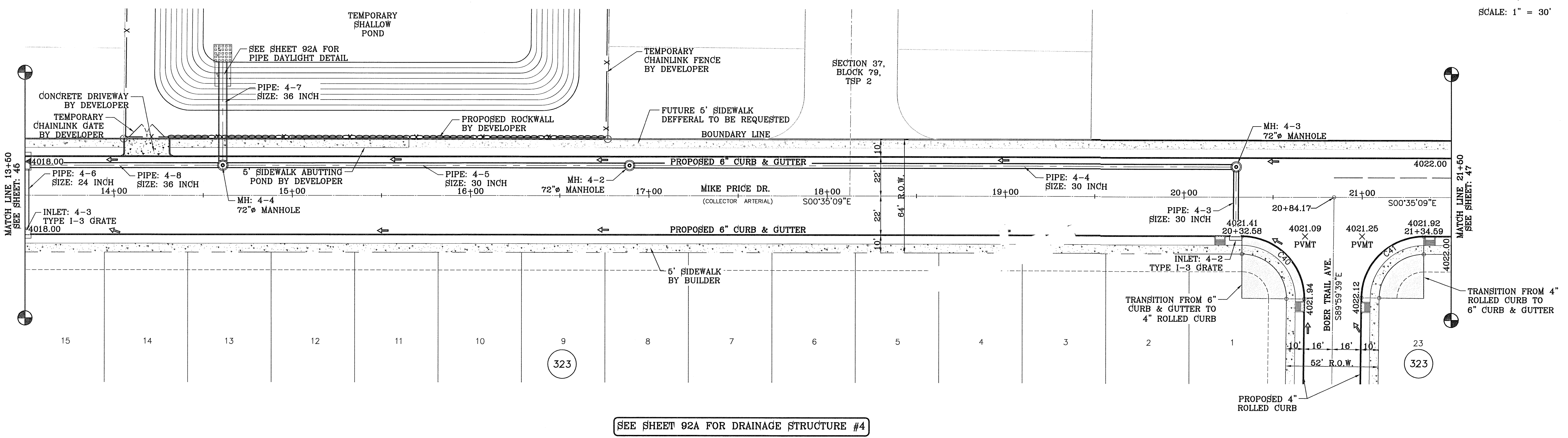
SCALE  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: BFG/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**CONDE INC.**  
 REGISTRATION No. F-2321

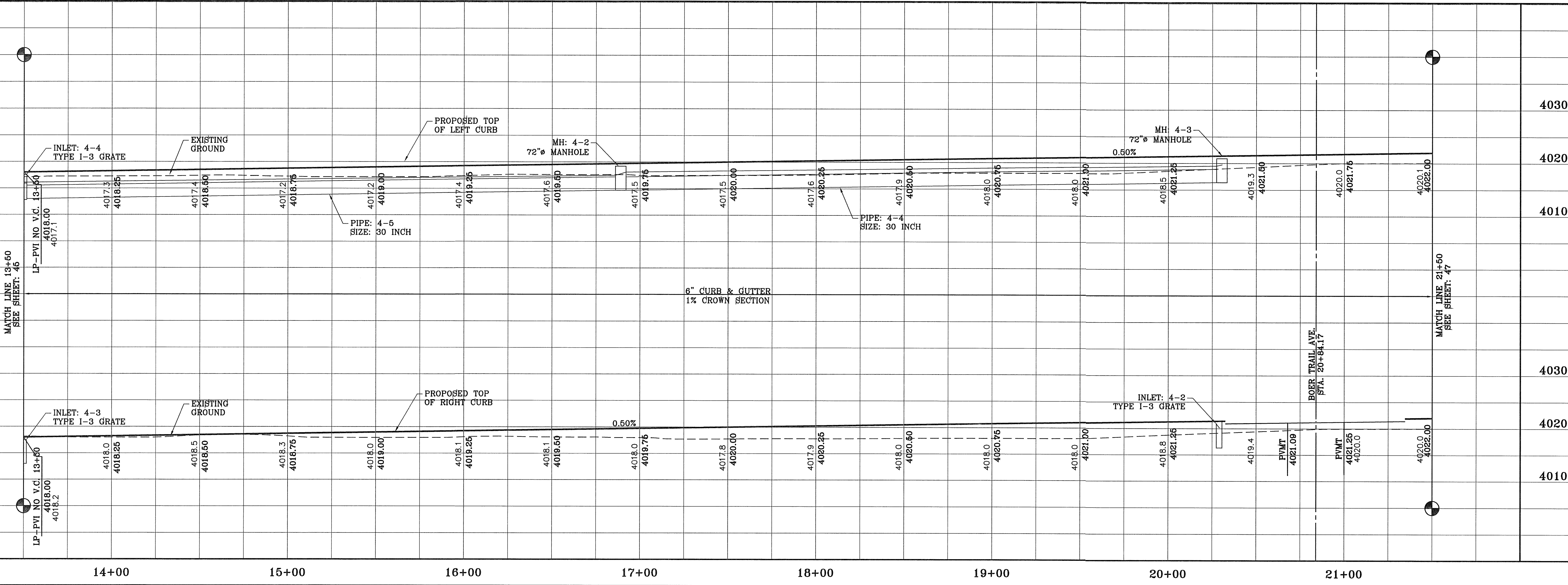
SHEET TITLE  
**MIKE PRICE DR.**  
 STA. 6+00 TO 13+50

FILE LOCATION S:\Subdivisions\TDE 67.DWG\TDE67-PP07\_MIKE PRICE PLOTTED ON Thursday, August 23, 2012 9:03:50 AM BY OSCAR MEDINA



SEE SHEET 92A FOR DRAINAGE STRUCTURE #4

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C40	35.00'	55.34'	35.36'	49.75'	N44°42'36"E	90°35'30"
C41	35.00'	54.62'	34.64'	49.24'	N45°17'24"W	89°24'30"



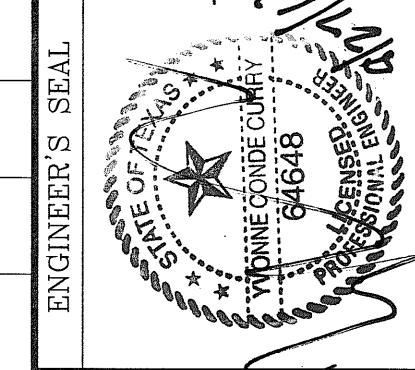
BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION	4017.47
DATE	10/9/11	REVISIONS	REVISIONS AS PER 8/24/11 REDLINES
BY	O.M.	DATE	11/1/11
BY	O.M.	DATE	REVISIONS AS PER 10/19/11 REDLINES

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

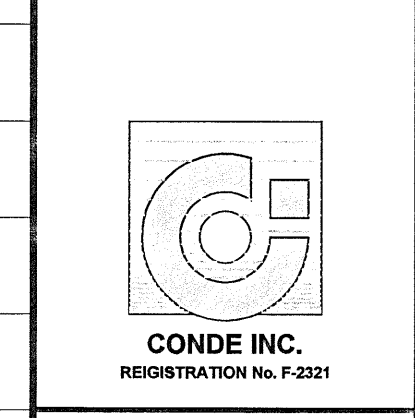
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PART OF PARCEL 136, SURVEYS CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EPQ/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

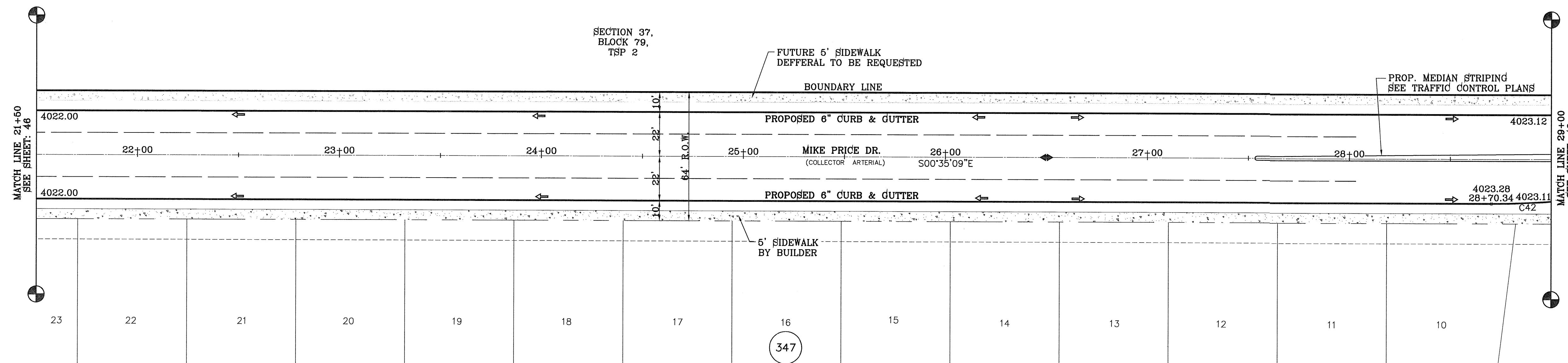
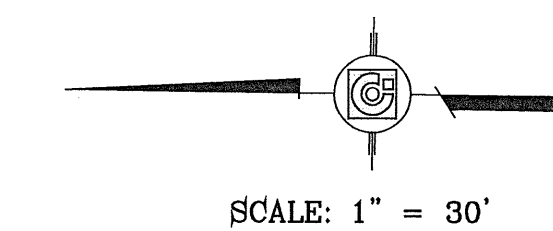


**CONDE INC.**  
ENGINEERING / PLANNING SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

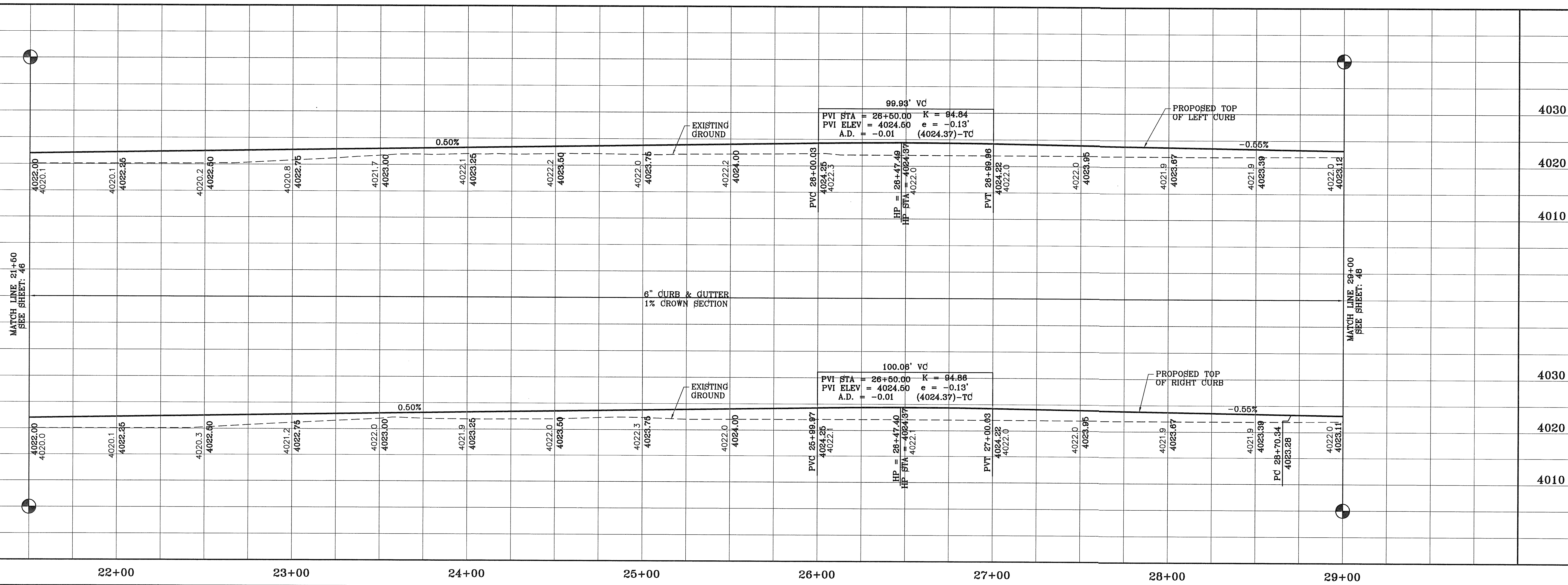


SHEET TITLE  
**STREET PLAN - PROFILE**

**MIKE PRICE DR.**  
STA. 13+50 TO 21+50



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C42	400.00'	44.66'	22.36'	44.64'	S3°47'05"E	6°23'52"



CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47'	BENCHMARK
	DATE
REVISIONS	BY
REVISIONS AS PER 8/24/11 REDLINES	O.M.
REVISIONS AS PER 10/19/11 REDLINES	O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, RANGE 10N, RANGE 10W, COUNTY OF PASO, TEXAS  
CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 166.264+/- ACRES

DESIGN BY: YC  
INITIATED BY: FRG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012

CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS  
8080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

ENGINEER'S SEAL

CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS  
8080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

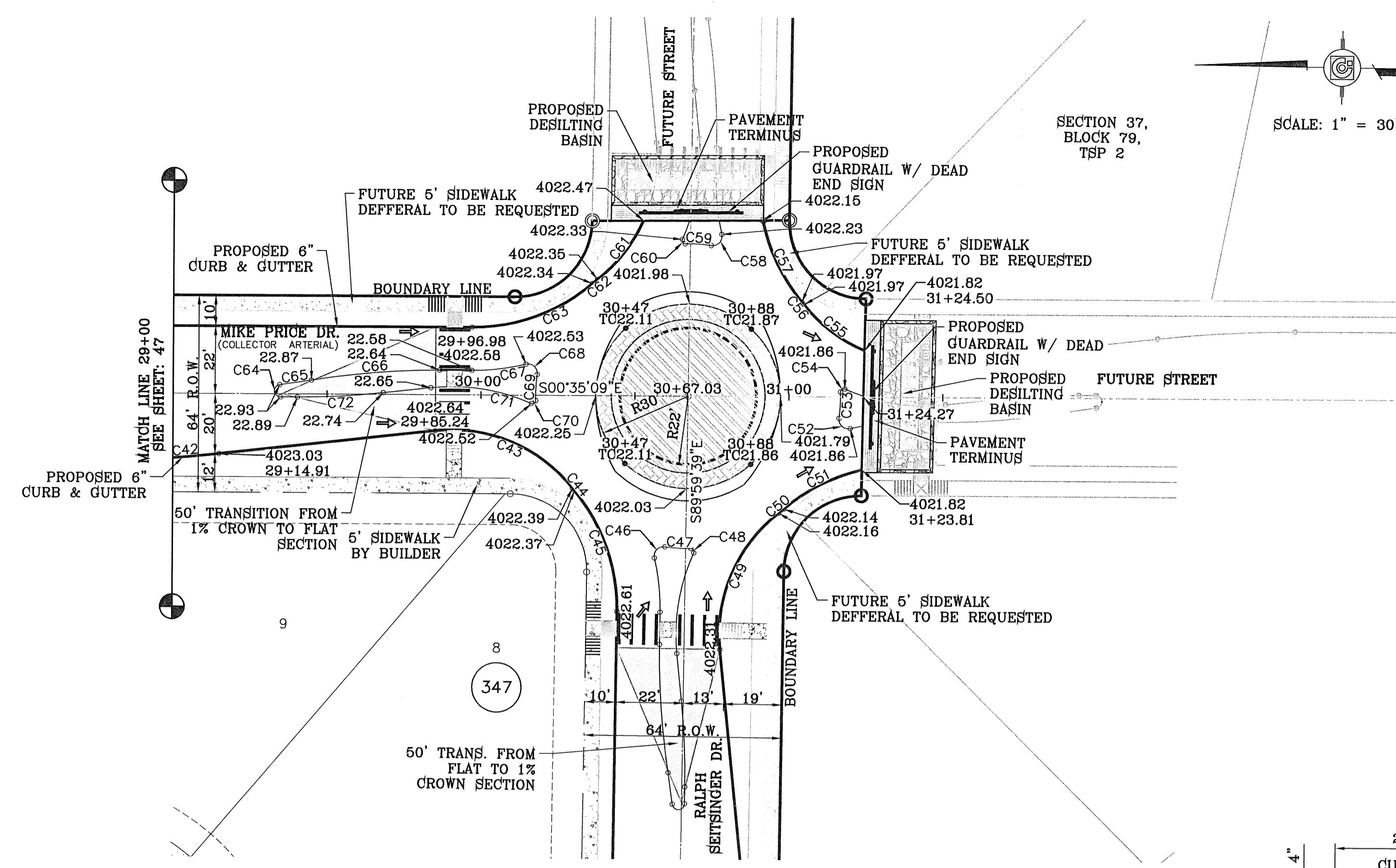
SHEET TITLE  
**STREET PLAN-PROFILE**

**MIKE PRICE DR.**

STA. 21+50 TO 29+00

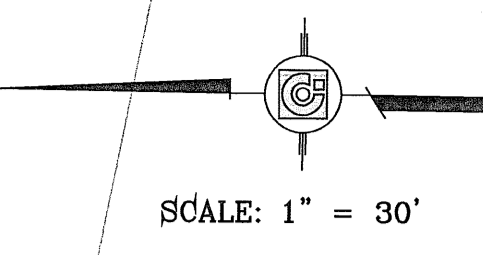
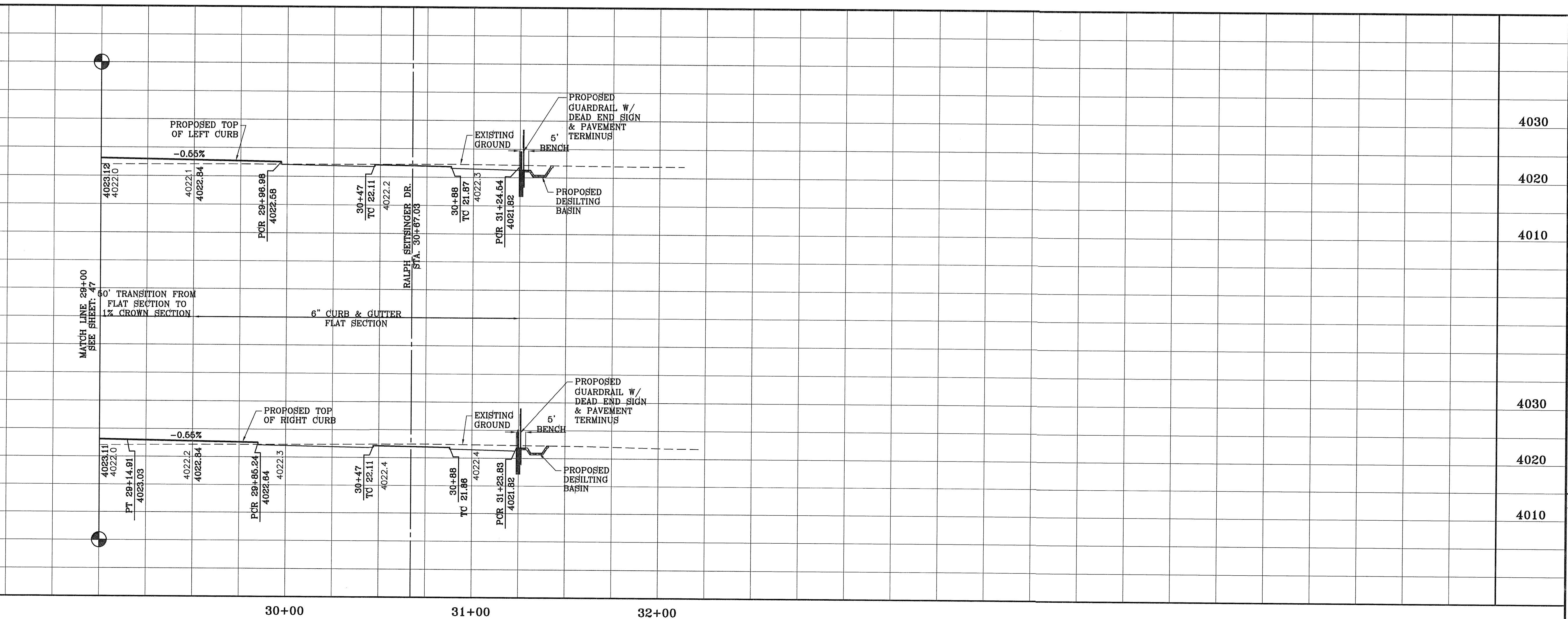
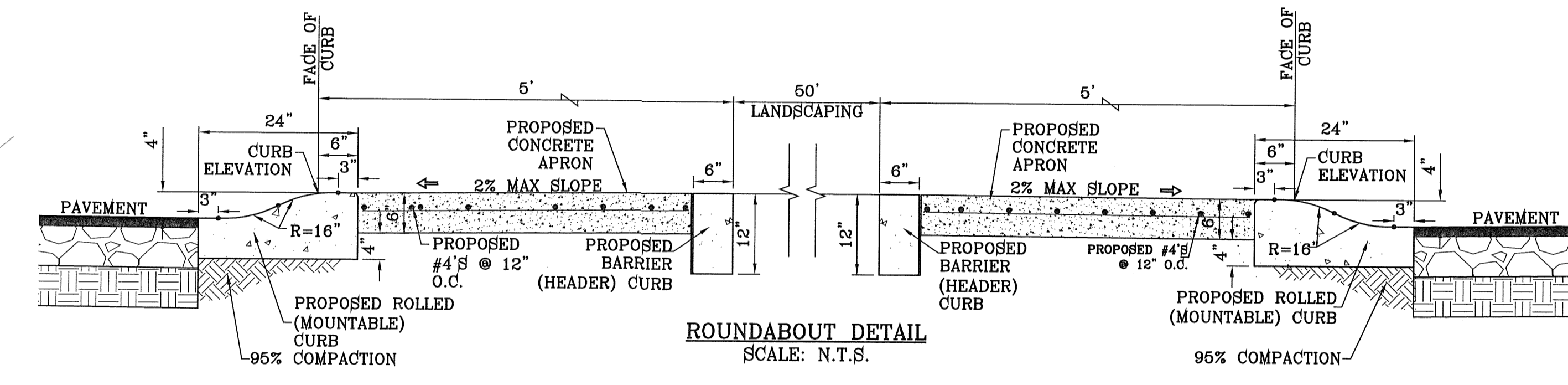
SHT 47 OF 112

FILE LOCATION IS: \Subdivisions\TDE 67 DWG\TDE67-PP07\_MIKE PRICE PLOTTED ON Thursday, August 23, 2012 9:04:17 AM BY OSCAR MEDINA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C42	400.00'	44.66'	22.36'	44.64'	S3°47'05"E	6°23'52"
C43	50.00'	50.33'	27.53'	48.23'	N21°51'03"E	57°40'08"
C44	48.00'	1.07'	0.54'	1.07'	S50°02'42"W	1°16'50"
C45	60.00'	42.52'	22.20'	41.63'	N69°42'19"E	40°36'04"
C46	3.00'	5.84'	4.42'	4.96'	N47°55'09"W	111°37'08"
C47	49.50'	8.51'	4.26'	8.50'	S2°57'58"W	9°50'53"
C48	1.00'	2.02'	1.59'	1.69'	N55°48'13"E	115°31'25"
C49	50.00'	50.33'	27.53'	48.23'	N67°33'27"W	57°40'08"
C50	48.00'	2.06'	1.03'	2.06'	S39°57'18"E	2°27'50"
C51	60.00'	28.68'	-14.62'	28.41'	N27°29'38"W	27°23'11"
C52	3.00'	5.84'	4.42'	4.96'	S41°29'21"W	111°37'08"
C53	49.50'	8.51'	4.26'	8.50'	S87°37'32"E	9°50'53"
C54	1.00'	2.02'	1.59'	1.69'	N34°47'17"W	115°31'25"
C55	50.00'	25.07'	12.80'	24.81'	S36°19'18"W	28°43'37"
C56	48.00'	1.07'	0.54'	1.07'	N50°02'42"E	1°16'50"
C57	60.00'	29.57'	15.09'	29.27'	S63°31'15"W	28°13'58"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C58	3.00'	5.84'	4.42'	4.96'	S47°55'09"E	111°37'08"
C59	49.50'	8.51'	4.26'	8.50'	N2°57'58"E	9°50'53"
C60	1.00'	2.02'	1.59'	1.69'	S55°48'13"W	115°31'25"
C61	50.00'	24.46'	12.48'	24.22'	S52°44'15"E	28°01'44"
C62	48.00'	2.06'	1.03'	2.06'	N39°57'18"W	2°27'50"
C63	60.00'	42.52'	22.20'	41.63'	S20°53'11"E	40°36'04"
C64	2.00'	6.03'	31.69'	3.99'	S85°48'08"W	172°46'36"
C65	250.00'	10.36'	5.18'	10.36'	S8°59'49"E	2°22'31"
C66	250.00'	41.88'	20.99'	41.83'	N5°23'07"W	9°35'55"
C67	74.00'	17.74'	8.91'	17.70'	S7°27'11"E	13°44'04"
C68	3.00'	5.84'	4.42'	4.96'	N41°29'21"E	111°37'08"
C69	49.50'	8.51'	4.26'	8.50'	N87°37'32"W	9°50'53"
C70	1.00'	2.02'	1.59'	1.69'	S34°47'17"E	115°31'25"
C71	64.00'	33.46'	17.12'	33.08'	N7°59'42"E	29°57'27"
C72	250.00'	27.92'	13.97'	27.90'	S3°47'05"E	6°23'52"



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47
DATE	10/3/11
REVISIONS	REVISIONS AS PER 9/24/11 REDLINES
BY	O.M.
	REVISIONS AS PER 10/19/11 REDLINES
	O.M.

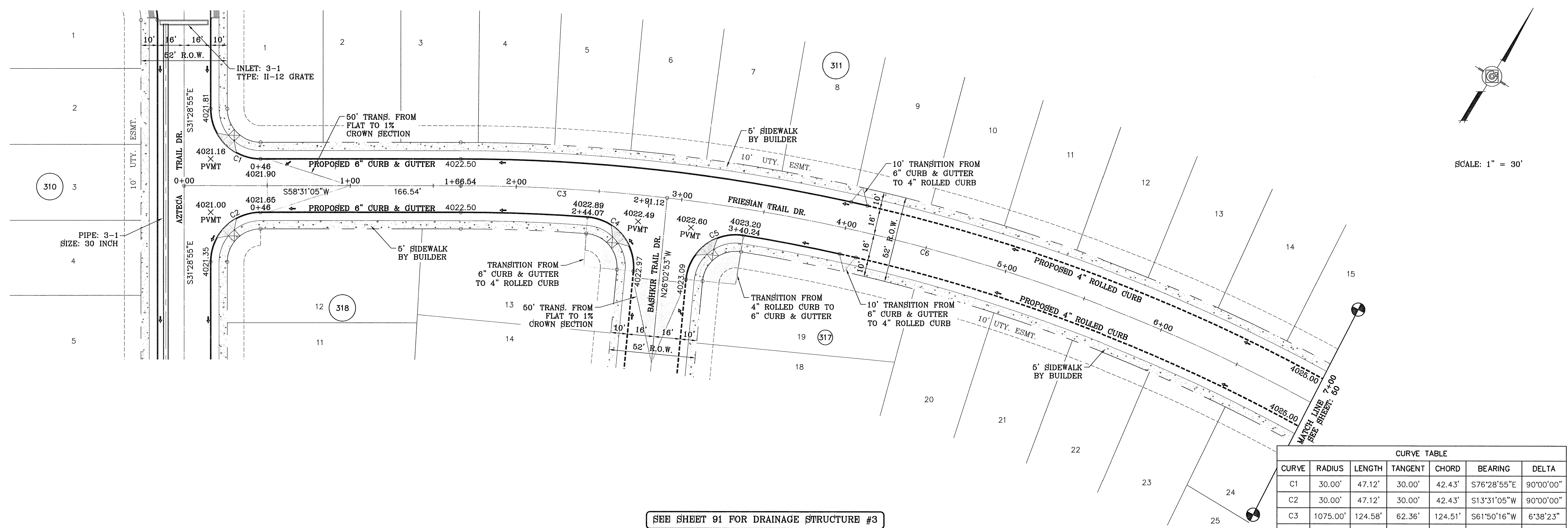
**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS.  
 CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 166.264± ACRES

PROJECT NAME  
 S C A L E  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: EFG/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

ENGINEER'S SEAL  
  
**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**CONDE INC.**  
 REGISTRATION NO. F-231  
 SHEET TITLE  
**STREET PLAN - PROFILE**  
**MIKE PRICE DR.**  
 STA. 29+50 TO 31+24.27

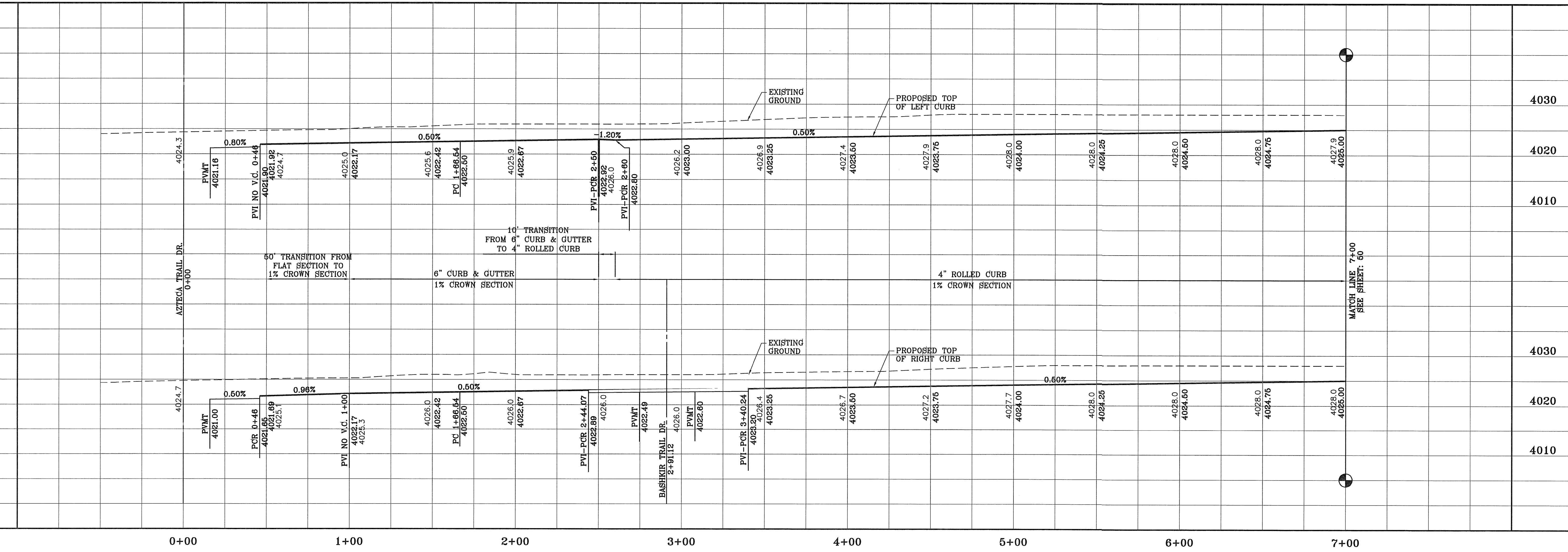
FILE LOCATION S:\Subdivisions\TDE 87.DWG\TDE87-PP08-FRIESIAN TRAIL PLOTTED ON Thursday, August 23, 2012 9:04:38 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.12'	30.00'	42.43'	S76°28'55"E	90°00'00"
C2	30.00'	47.12'	30.00'	42.43'	S13°31'05"W	90°00'00"
C3	1075.00'	124.58'	62.36'	124.51'	S61°50'16"W	6°38'23"
C4	30.00'	47.81'	30.69'	42.91'	N71°41'56"W	91°18'07"
C5	30.00'	49.13'	32.07'	43.82'	S20°51'50"W	93°49'25"
C6	1075.00'	466.20'	236.83'	462.56'	S77°34'54"W	24°50'53"

SEE SHEET 91 FOR DRAINAGE STRUCTURE #3

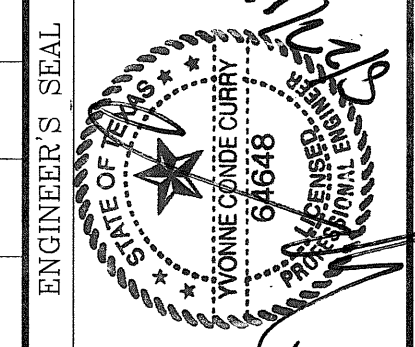


BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47
DATE	10/9/11
REVISIONS	REVISIONS AS PER 8/24/11 REDLINES
BY	O.M.
DATE	11/1/11
REVISIONS	REVISIONS AS PER 10/19/11 REDLINES
BY	O.M.

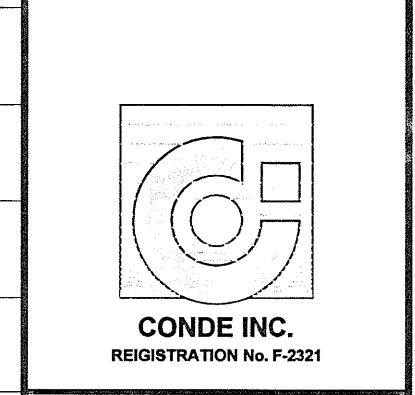
**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

SCALE  
 HORIZ. 1" = 30'  
 VERT. 1" = 10'  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: EFG/DM  
 CHECKED BY: YC  
 JOB NO.: 1110-18



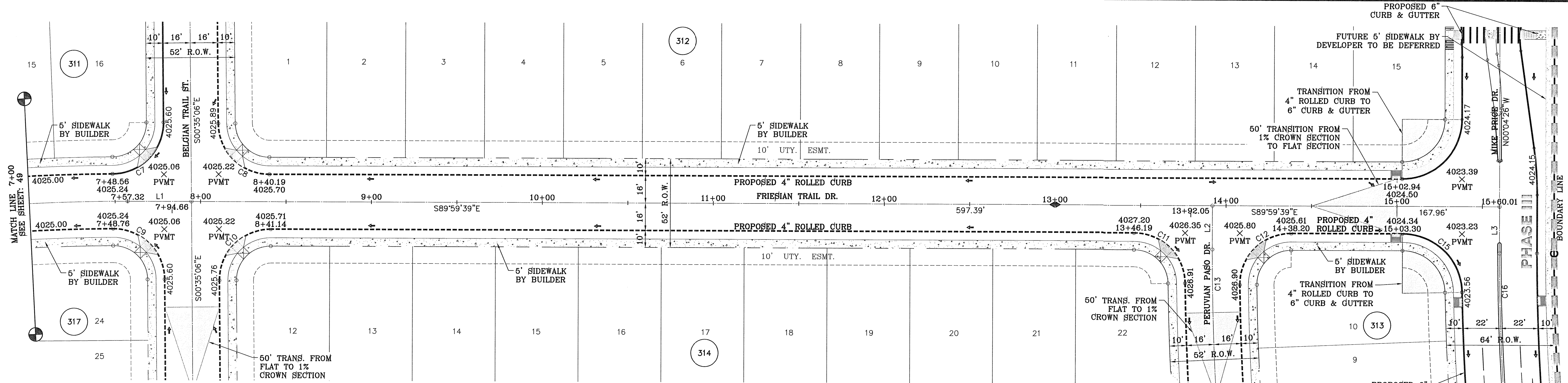
**CONDE INC.**  
 ENGINEERING / PLANNING SURVEYING / GIS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286



SHEET TITLE  
**STREET PLAN-PROFILE**  
**FRIESIAN TRAIL DR.**  
 STA. 0+00 TO 7+00



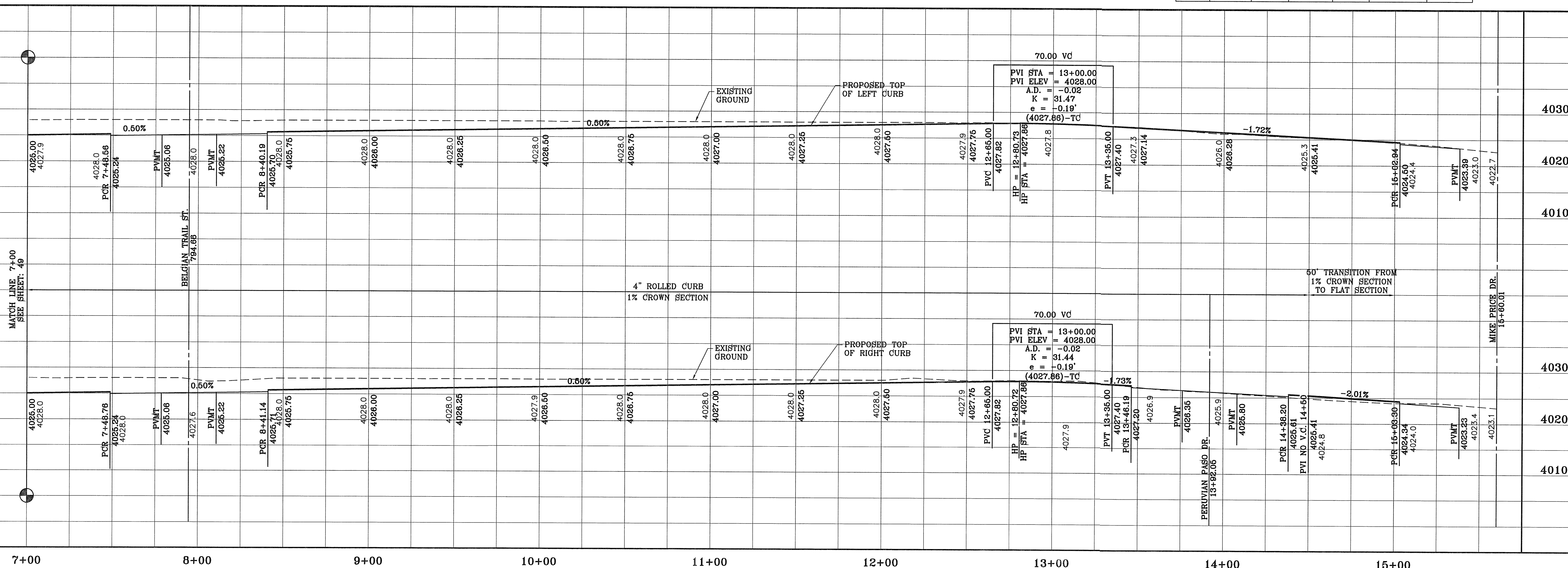
FILE LOCATION S:\Subdivisions\TDE 67\DWG\YDE67-PP08-FRIESIAN TRAIL PLOTTED ON Thursday, August 23, 2012 9:04:42 AM BY OSCAR MEDINA



LINE	LENGTH	BEARING
L1	37.338	S89°59'39.49"E
L2	25.667	N0°00'20.51"E
L3	27.391	N0°04'25.99"W

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C7	30.00'	47.19'	30.06'	42.47'	N44°28'36"E	90°07'25"
C8	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C9	30.00'	47.05'	29.93'	42.38'	N45°31'04"W	89°51'55"
C10	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C11	30.00'	46.71'	29.59'	42.13'	N45°23'32"E	89°12'15"
C12	30.00'	47.57'	30.45'	42.74'	S44°34'52"W	90°50'57"
C13	1418.00'	158.21'	79.19'	158.13'	S3°11'27"E	6°23'34"
C14	35.00'	55.03'	35.05'	49.53'	N44°57'57"E	90°04'46"
C15	35.00'	54.30'	34.33'	49.02'	N45°33'00"W	88°53'20"
C16	1250.00'	137.73'	68.94'	137.66'	S3°13'50"E	6°18'48"

SCALE: 1" = 30'



**TIERRA DEL ESTE UNIT SIXTY SEVEN**

PROJECT NAME: TIERRA DEL ESTE UNIT SIXTY SEVEN

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE: 10/3/11 REVISIONS AS PER 8/24/11 REDLINES

DATE: 11/1/11 REVISIONS AS PER 10/19/11 REDLINES

DATE: 04/02/12 REVISIONS AS PER 10/19/11 REDLINES

BY: O.M. ADDITION OF PHASE INFORMATION

BY: O.M.

BY: R.R.

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

ENGINEER'S SEAL: CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURETY DR. STE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286

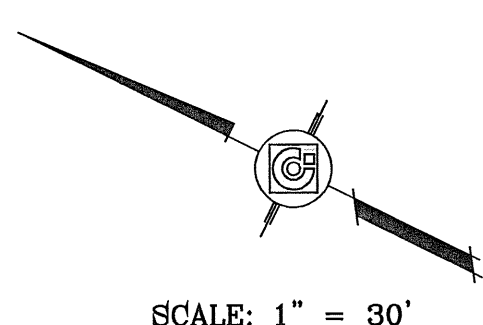
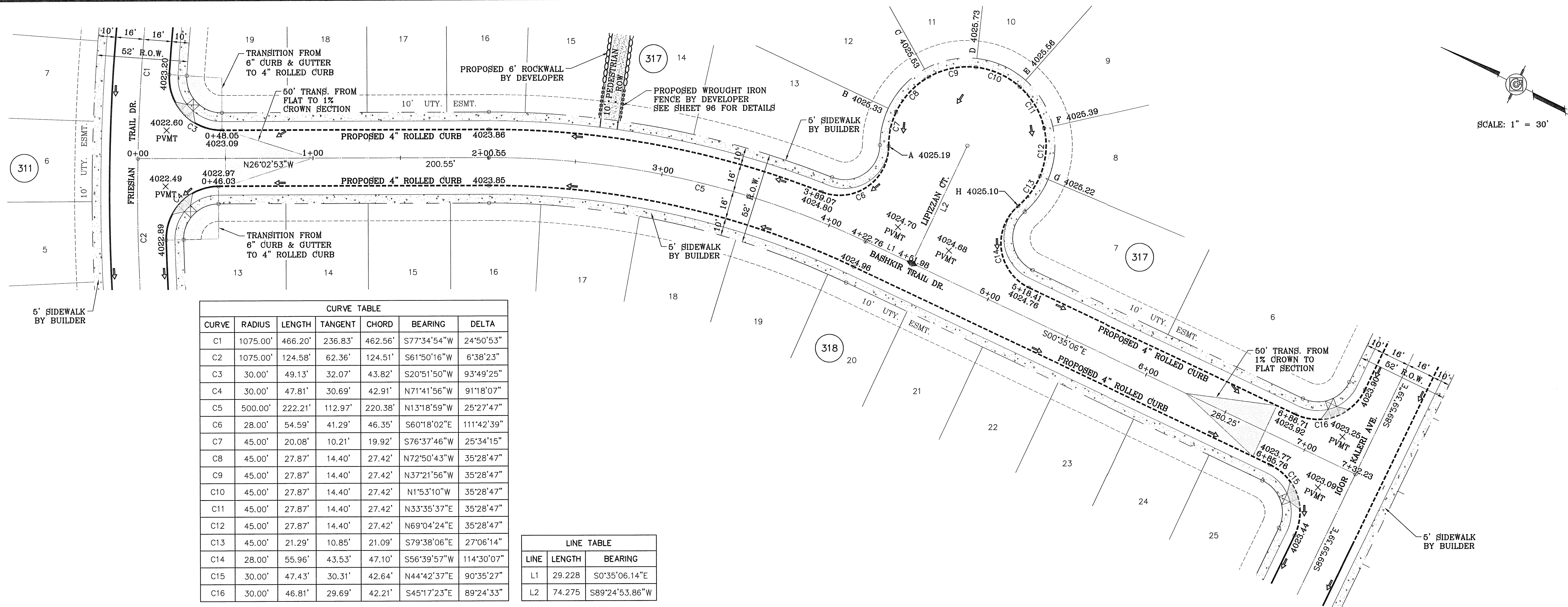
SHEET TITLE: STREET PLAN-PROFILE

**FRIESIAN TRAIL DR.**

STA. 7+00 TO 15+60.01

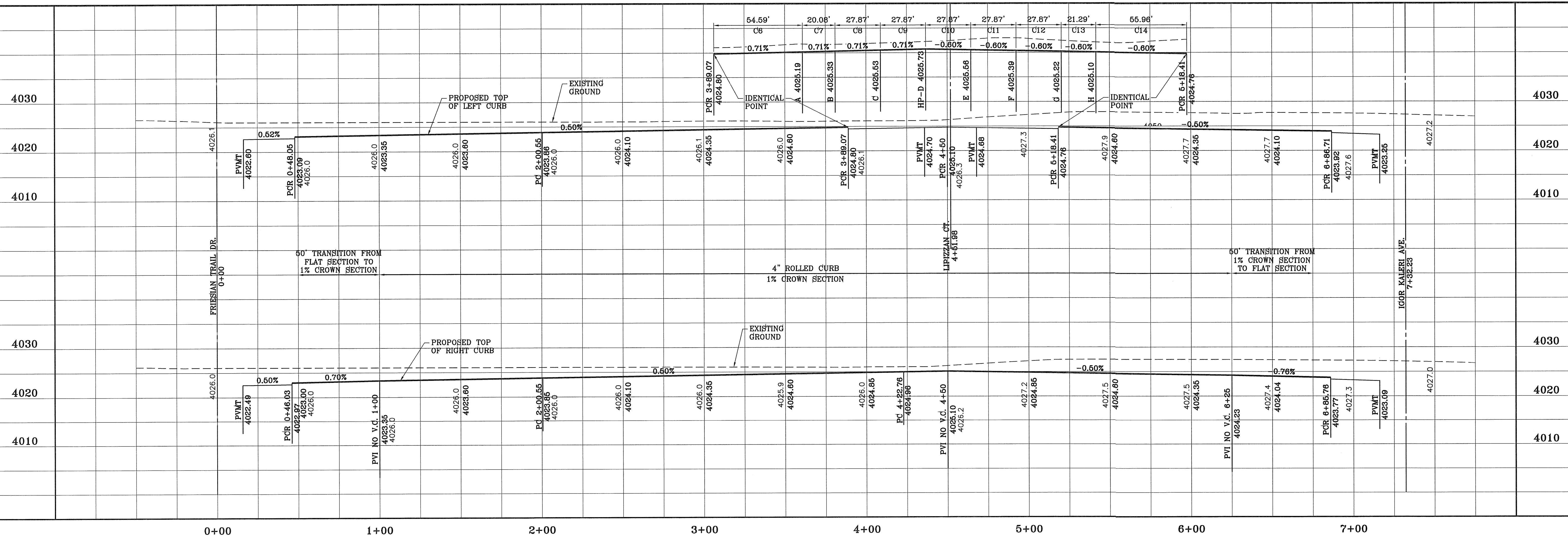
SHT 50 OF 112

FILE LOCATION S:\Subdivisions\TDE 67\DWG\TDE67-PP09\_BASHKIR TRAIL PLOTTED ON Thursday, August 23, 2012 9:05:01 AM BY OSCAR MEDINA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	1075.00'	466.20'	236.83'	462.56'	S77°34'54"W	24°50'53"
C2	1075.00'	124.58'	62.36'	124.51'	S61°50'16"W	6°38'23"
C3	30.00'	49.13'	32.07'	43.82'	S20°51'50"W	93°49'25"
C4	30.00'	47.81'	30.69'	42.91'	N71°41'56"W	91°18'07"
C5	500.00'	222.21'	112.97'	220.38'	N13°18'59"W	25°27'47"
C6	28.00'	54.59'	41.29'	46.35'	S60°18'02"E	111°42'39"
C7	45.00'	20.08'	10.21'	19.92'	S76°37'46"W	25°34'15"
C8	45.00'	27.87'	14.40'	27.42'	N72°50'43"W	35°28'47"
C9	45.00'	27.87'	14.40'	27.42'	N37°21'56"W	35°28'47"
C10	45.00'	27.87'	14.40'	27.42'	N1°53'10"W	35°28'47"
C11	45.00'	27.87'	14.40'	27.42'	N33°35'37"E	35°28'47"
C12	45.00'	27.87'	14.40'	27.42'	N69°04'24"E	35°28'47"
C13	45.00'	21.29'	10.85'	21.09'	S79°38'06"E	27°06'14"
C14	28.00'	55.96'	43.53'	47.10'	S56°39'57"W	114°30'07"
C15	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C16	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"

LINE TABLE		
LINE	LENGTH	BEARING
L1	29.228	S0°35'06.14"E
L2	74.275	S89°24'53.86"W



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47
DATE	10/3/11
REVISIONS	REVISIONS AS PER 8/24/11 REDLINES
BY	O.M.
DATE	11/1/11
REVISIONS	REVISIONS AS PER 10/19/11 REDLINES
BY	O.M.

**TERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, RANGE 14E, RANGE 14E, COUNTY OF EL PASO, TEXAS  
 CITY OF EL PASO, TEXAS  
 CONTAINING: 1.683.254± ACRES

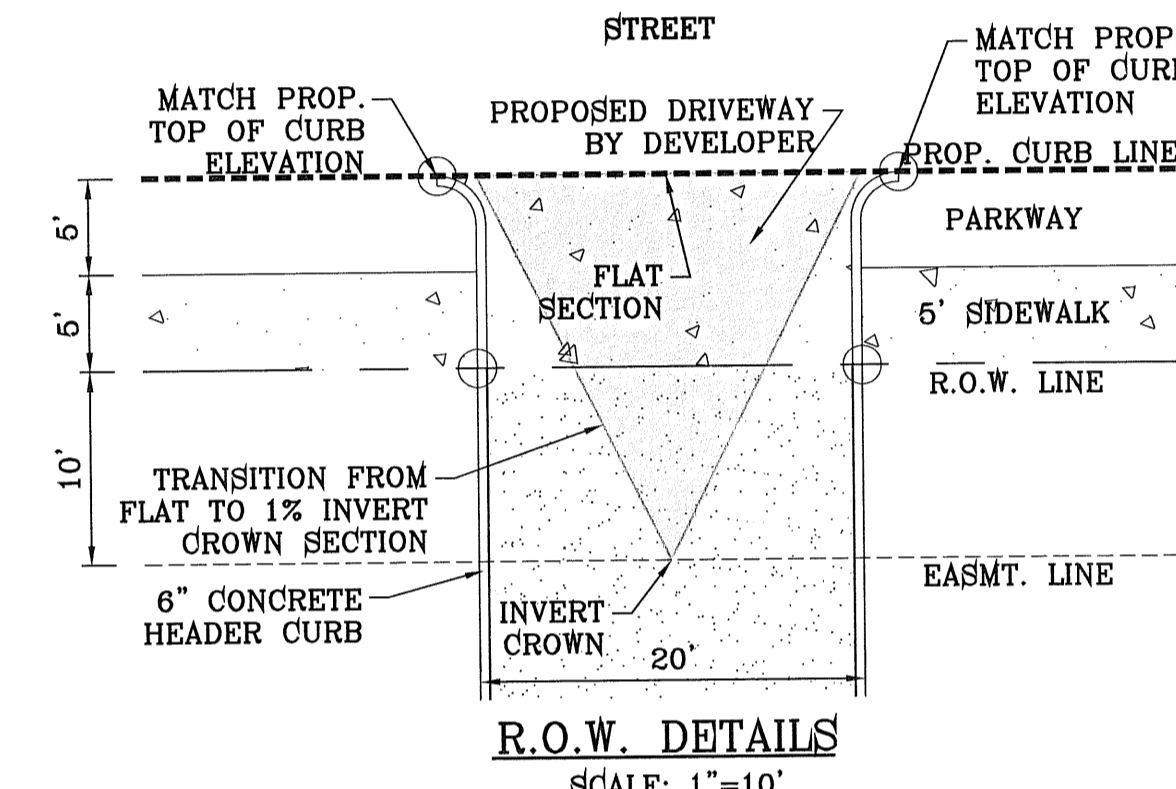
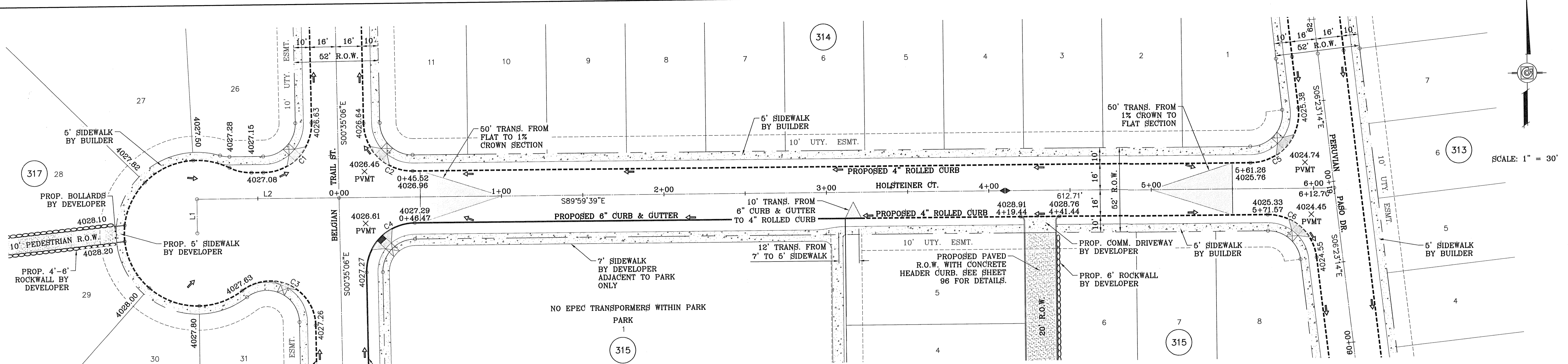
ENGINEER'S SEAL  
 S C A L E  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: EFG/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**CONDE INC.**  
 REGISTRATION NO. F3221

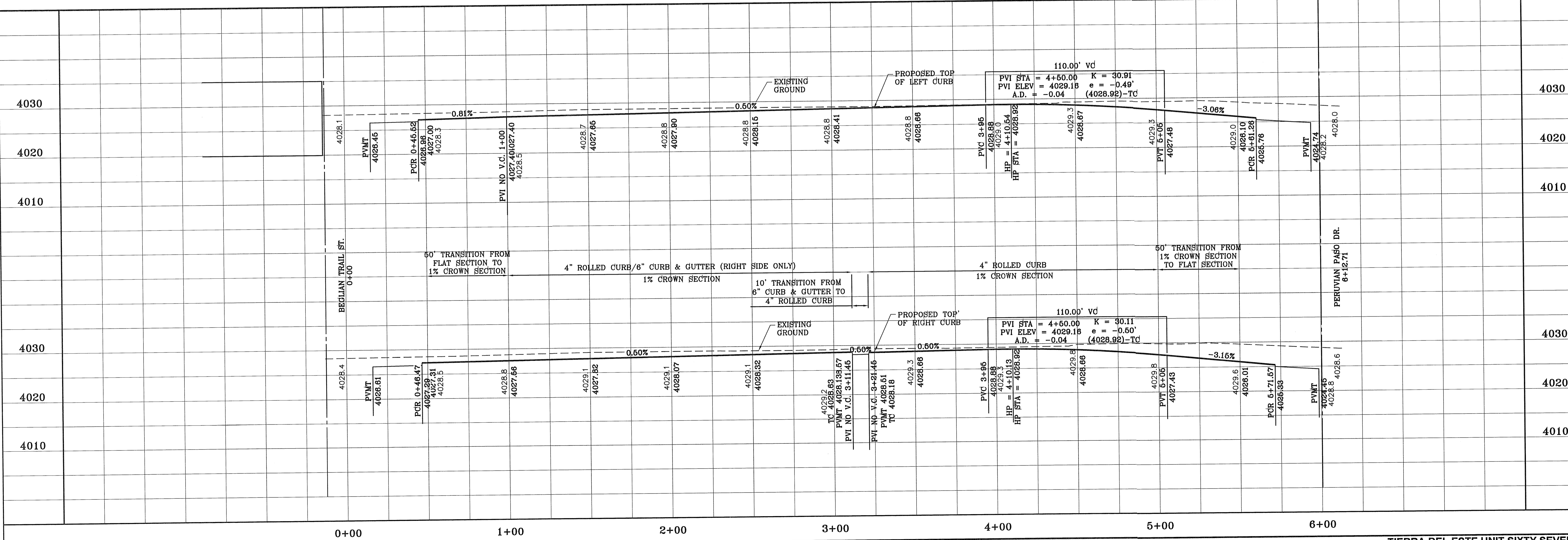
SHEET TITLE  
**STREET PLAN - PROFILE**  
**BASHKIR TRAIL DR.**  
 STA. 0+00 TO 7+32.23

SHT 51 OF 112



LINE TABLE		
LINE	LENGTH	BEARING
L1	21.000	N0°00'20.51"E
L2	87.525	S89°59'39.49"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C2	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C3	28.00'	61.97'	55.92'	50.07'	N63°59'21"W	126°48'30"
C4	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C5	30.00'	50.47'	33.55'	44.73'	N41°48'33"E	96°23'34"
C6	30.00'	43.78'	26.83'	39.99'	N48°11'27"W	83°36'26"



**PROJECT NAME**  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

**CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. NAD88 DATUM**  
 ELEVATION 4017.47

**DATE** 10/3/11  
**REVISIONS** AS PER 8/24/11 REDLINES  
 11/1/11 REVISIONS AS PER 10/19/11 REDLINES

**BY** O.M.  
**DATE** 10/3/11  
**REVISIONS** AS PER 8/24/11 REDLINES  
 11/1/11 REVISIONS AS PER 10/19/11 REDLINES  
**BY** O.M.

**BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY Co. SURVEY, TEXAS OF EL PASO, EL PASO COUNTY, TEXAS**  
 CITY CONTAINING: 166.254± ACRES

**SCALE**  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'

**DATE** MAY 2012  
**DESIGN BY** YC  
**INITIATED BY** BFD/OM  
**CHECKED BY** YC  
**JOB NO.:** 1110-1B

**ENGINEER'S SEAL**

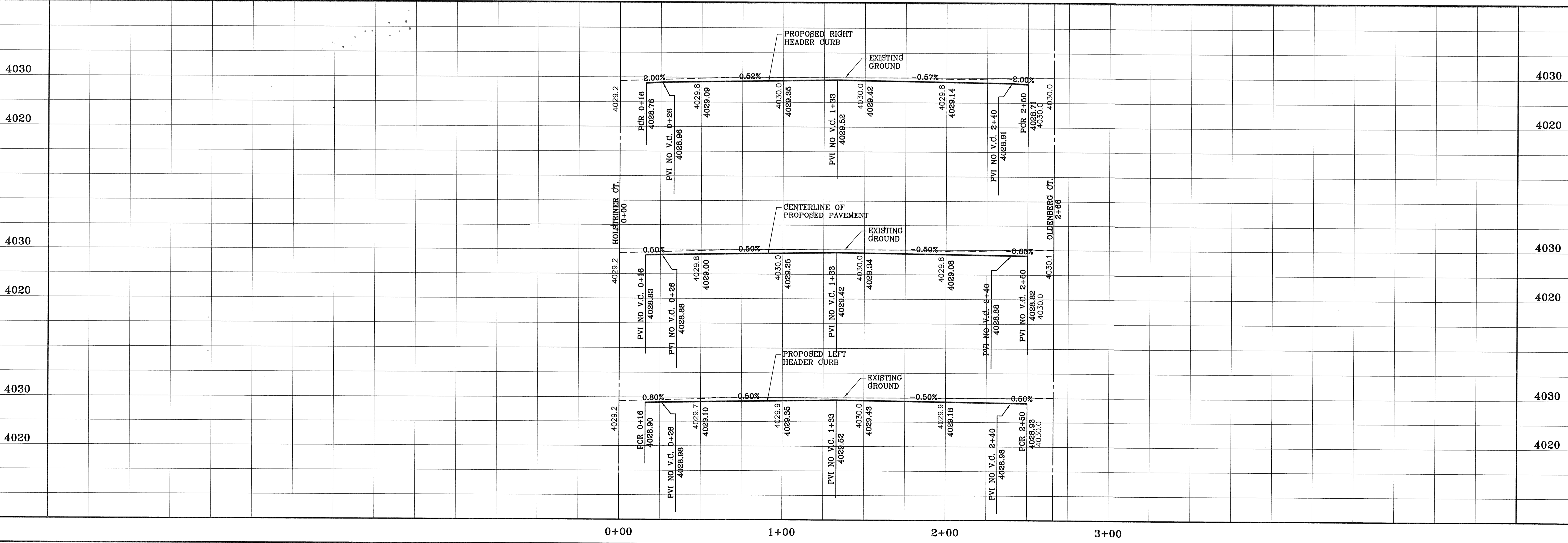
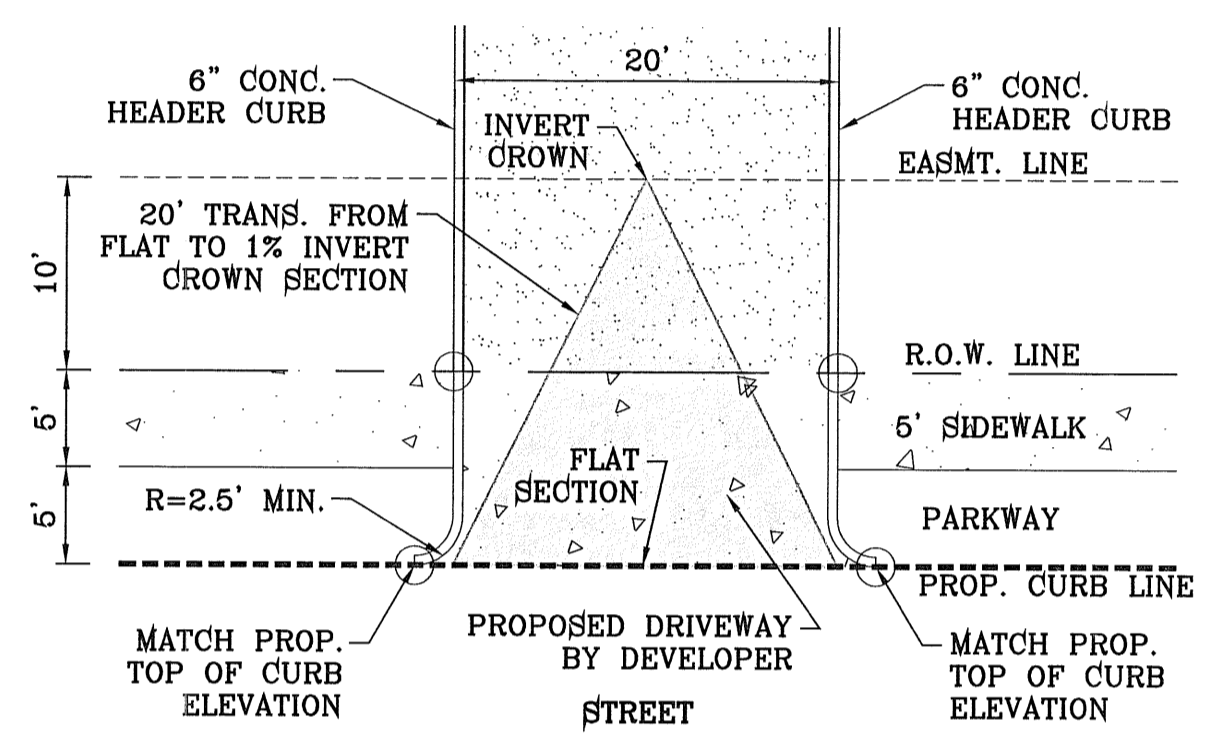
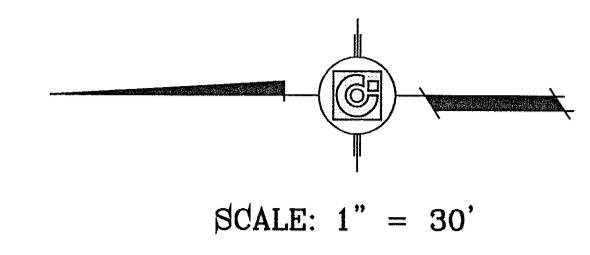
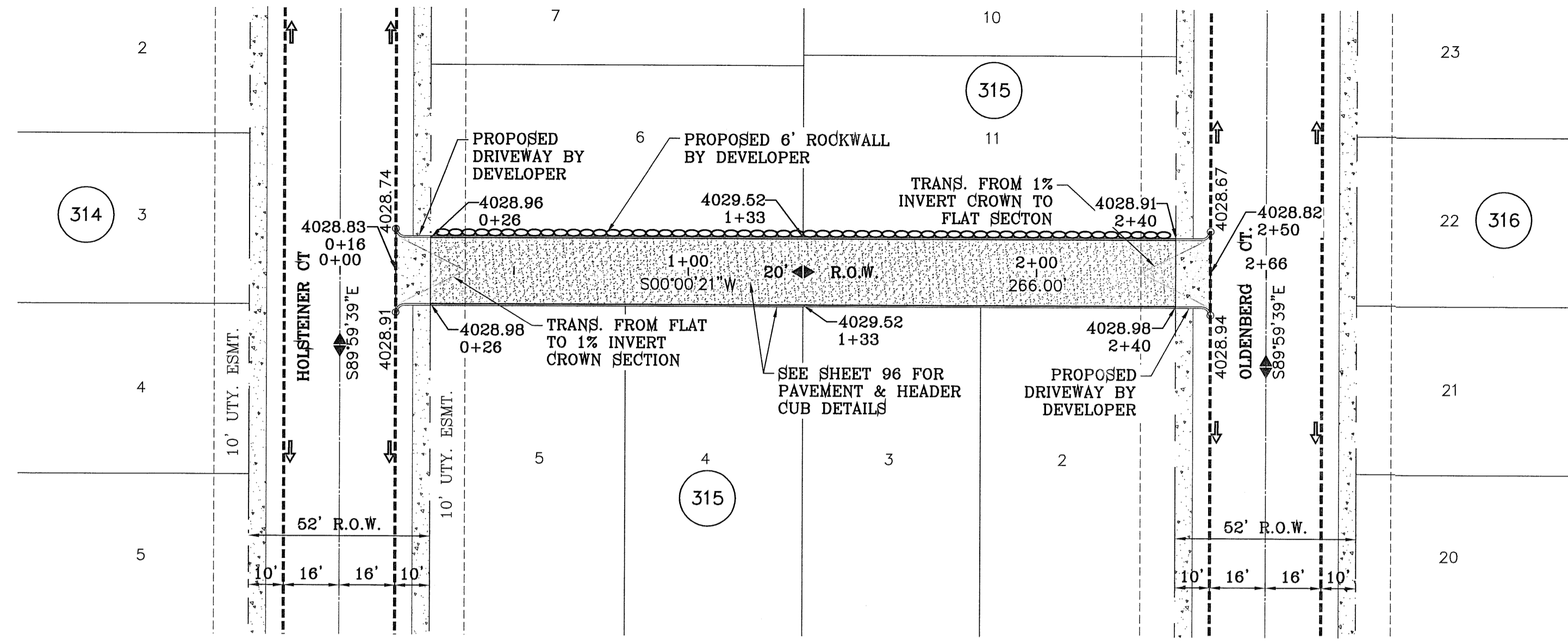
**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**SHEET TITLE**  
**STREET PLAN-PROFILE**  
**HOLSTEINER CT.**  
 STA. 0+00 TO 7+21.23

**SHT 52 OF 112**

S:\Subarea\1105\1105\DWG\1105-PP10\_HOLSTEINER.CT 01\_9/11/2012 14:59 PM

FILE LOCATION S:\Subdivisions\TDE 67\DWG\TDE67-PP11\_ROW PLOTTED ON Thursday, August 23, 2012 9:05:43 AM BY OSCAR MEDINA



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE	REVISIONS	BY
10/3/11	REVISIONS AS PER 8/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BRING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

ENGINEER'S SEAL

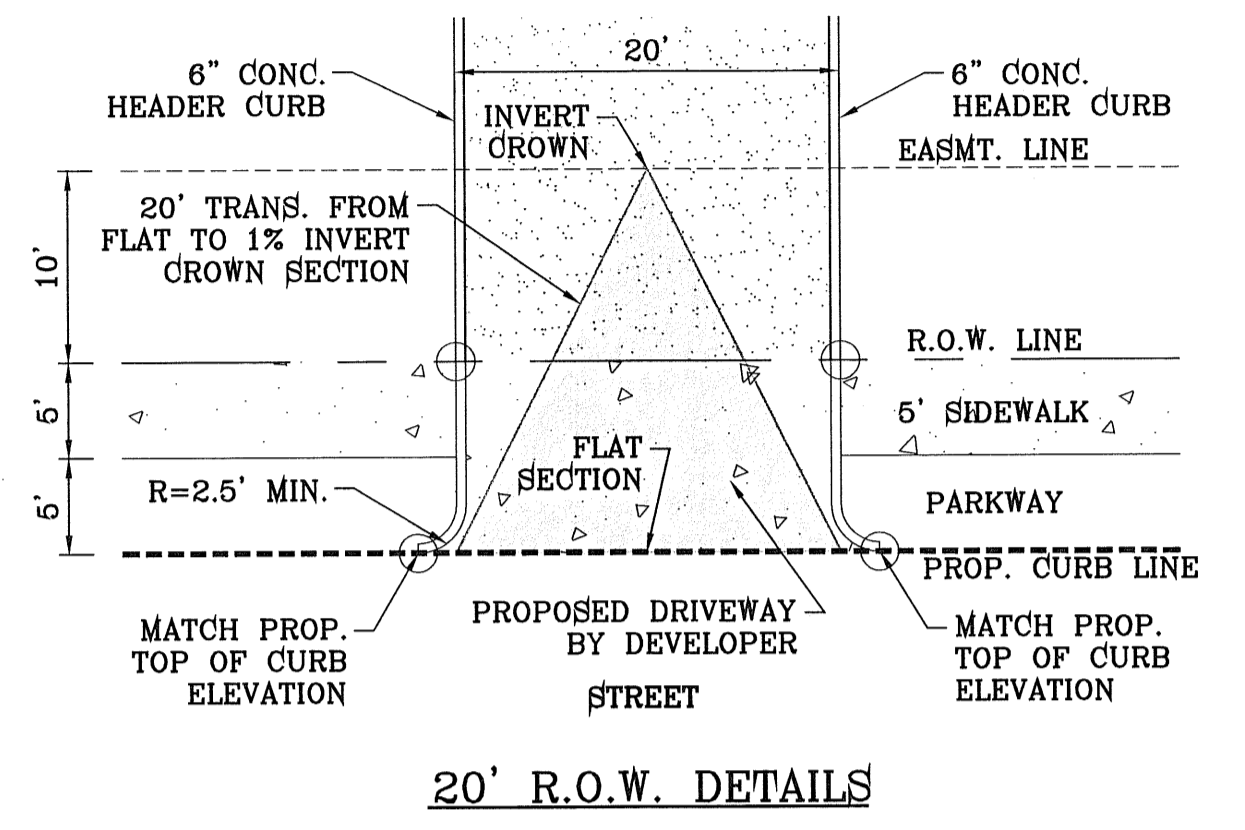
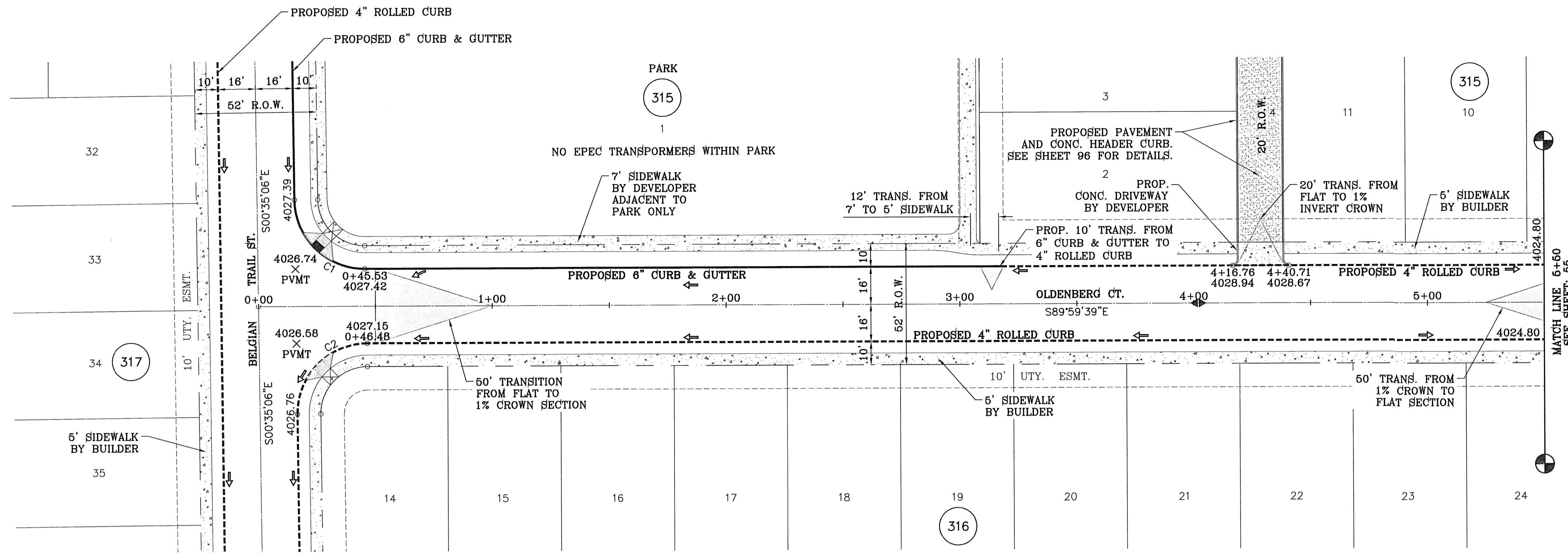
WOMEN CONCRETE CURRY  
64648  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF TEXAS

DESIGN BY: YC  
INITIATED BY: BFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

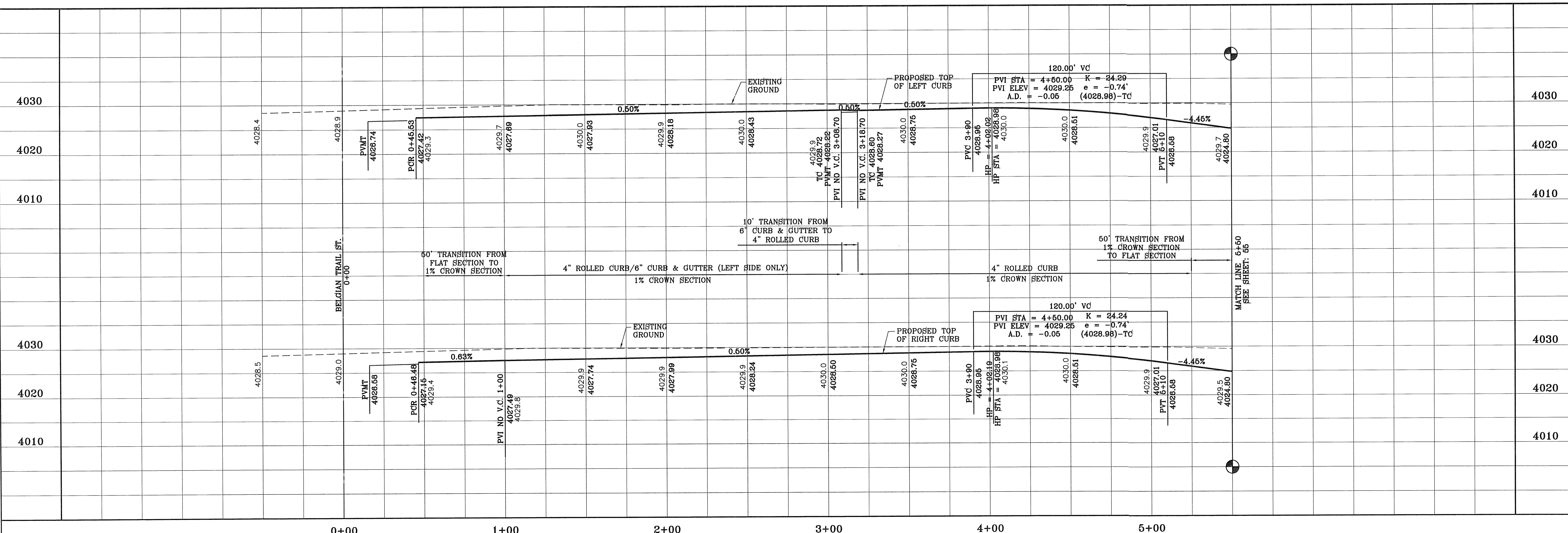
CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6060 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN - PROFILE**

**20' R.O.W.**



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.81'	29.69'	42.21'	S45°17'23\"/>	
C2	30.00'	47.43'	30.31'	42.64'	S44°42'37\"/>	



BENCHMARK		CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47	
DATE	REVISIONS	BY	O.M.
10/3/11	REVISIONS AS PER 8/24/11 REDLINES		O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES		O.M.

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: BRG/OM  
CHECKED BY: YC  
JOB NO.: 1110-1B

ENGINEER'S SEAL

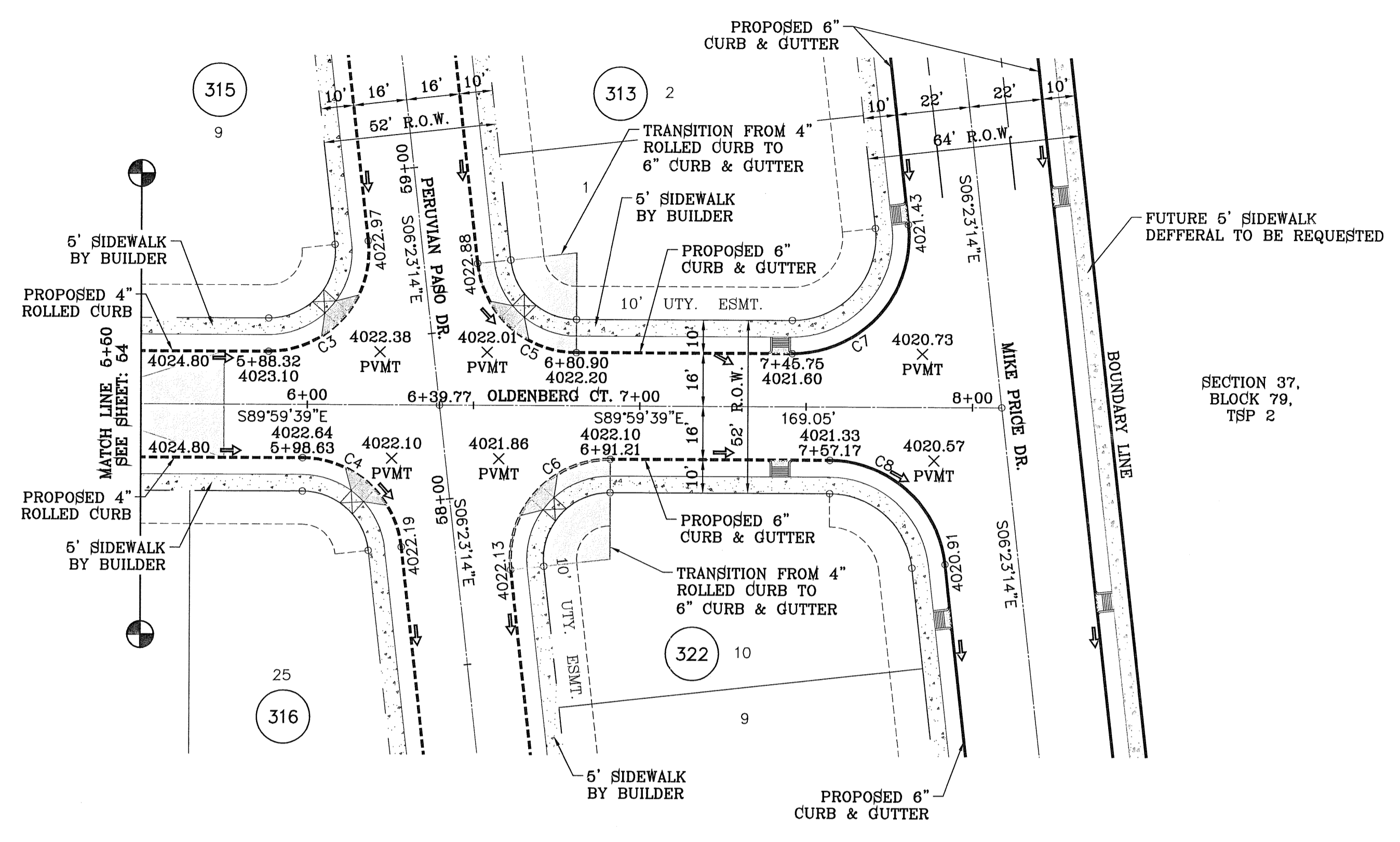
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79906  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN-PROFILE**

**OLDENBERG CT.**

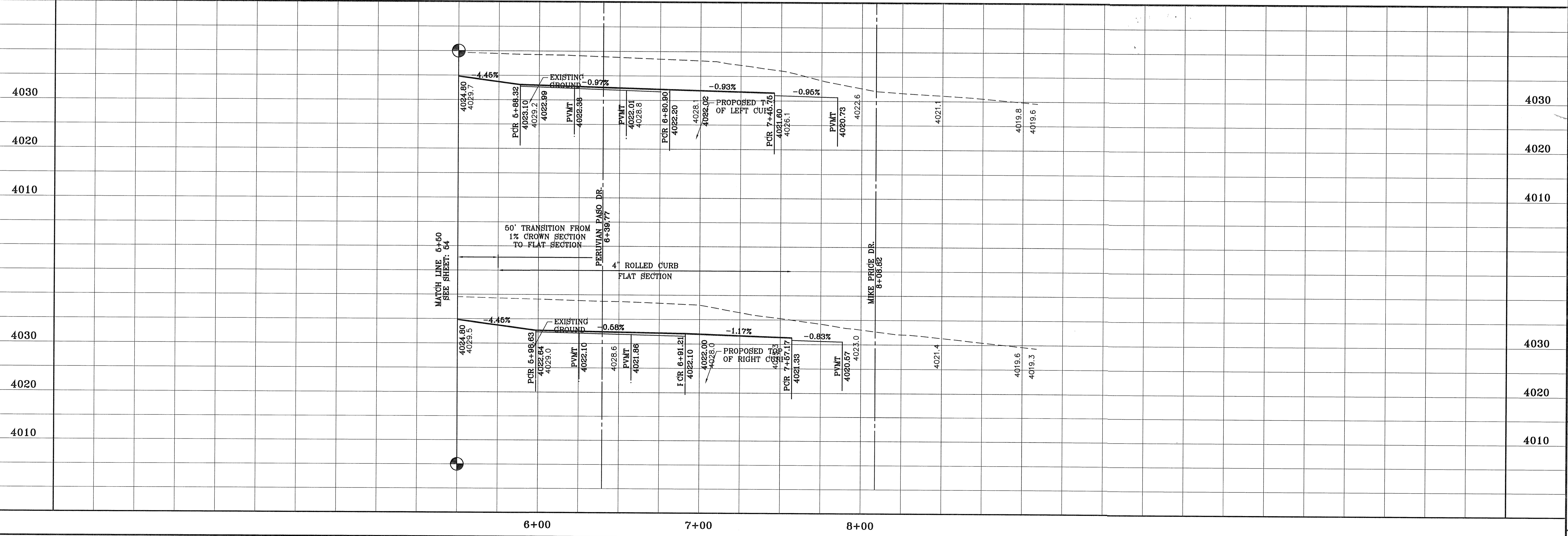
STA. 0+00 TO 5+50

FILE LOCATION S:\Subdivisions\YDE 67A.DWG\YDE67-PP12\_OLDENBERG PLOTTED ON Thursday, August 23, 2012 9:06:08 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C3	30.00'	50.47'	33.55'	44.73'	N41°48'33"E	96°23'34"
C4	30.00'	43.78'	26.83'	39.99'	N48°11'27"W	83°36'26"
C5	30.00'	43.78'	26.83'	39.99'	S48°11'27"E	83°36'26"
C6	30.00'	50.47'	33.55'	44.73'	S41°48'33"W	96°23'34"
C7	35.00'	58.88'	39.14'	52.18'	N41°48'33"E	96°23'34"
C8	35.00'	51.07'	31.30'	46.66'	N48°11'27"W	83°36'26"



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE	REVISIONS	BY
10/3/11	REVISIONS AS PER 9/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 106.254± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EPJ/OM  
CHECKED BY: YC

JOB NO.: 1110-18

ENGINEER'S SEAL

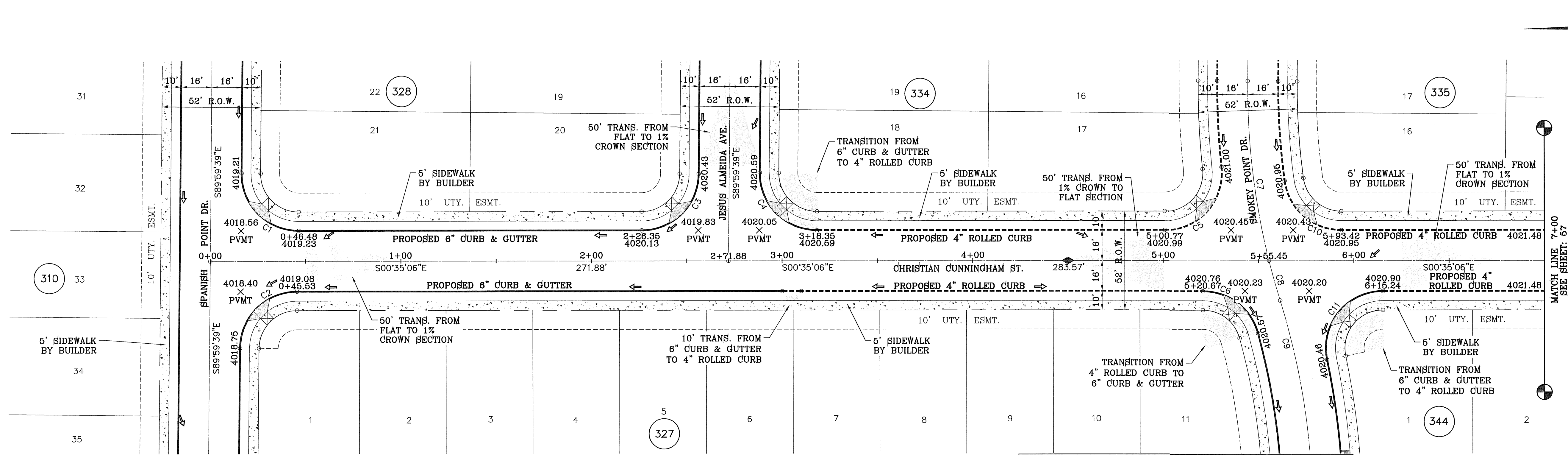
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
STREET  
PLAN-PROFILE

**OLDENBERG CT.**

STA. 5+50 TO 8+08.82

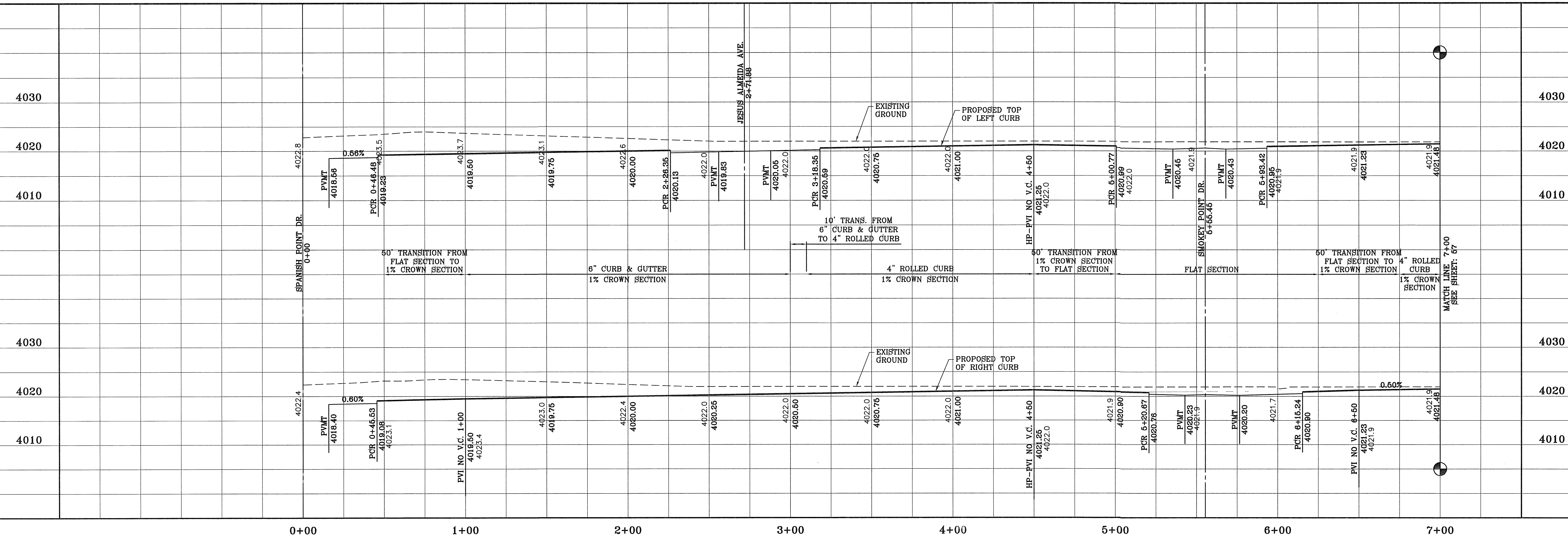
FILE LOCATION S:\\_Subdivisions\TDE 67 DWG\TDE67-PP13-CHRISTIAN\_RANDALL\_PERUVIAN\_PLOTTED ON Thursday, August 23, 2012 8:06:36 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C2	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C3	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C4	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C5	30.00'	50.28'	33.33'	44.60'	S48°35'49"E	96°01'26"
C6	30.00'	39.18'	22.95'	36.45'	N36°49'35"E	74°49'22"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C7	375.00'	94.94'	47.73'	94.69'	S82°45'10"W	14°30'21"
C8	375.00'	21.78'	10.89'	116.25'	S73°50'10"W	3°19'39"
C9	375.00'	116.72'	58.84'	116.25'	N81°05'20"E	17°50'00"
C10	30.00'	43.08'	26.21'	39.48'	S40°33'22"W	82°16'57"
C11	30.00'	53.31'	36.92'	46.56'	N51°29'16"W	101°48'20"



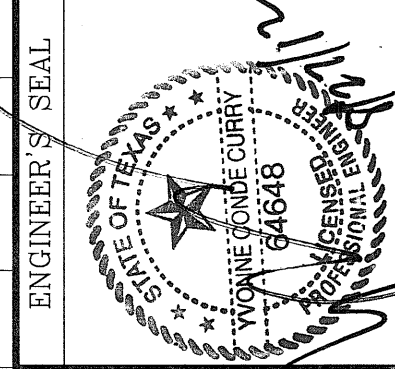
BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JUAN MANUEL ST. AND SPANISH POINT DR. NAVD83 DATUM	ELEVATION	4017.47'
DATE	10/3/11	REVISIONS	AS PER 8/24/11 REDLINES
BY	11/1/11	REVISIONS	AS PER 10/19/11 REDLINES
O.M.		REVISIONS	AS PER 10/19/11 REDLINES

**PROJECT NAME**  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND MAP OF THE CITY OF EL PASO, COUNTY TEXAS CONTAINING: 166.264± ACRES

**SCALE**  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'

DATE: MAY 2012  
 DESIGN BY: JC  
 INITIATED BY: EPG/OM  
 CHECKED BY: JC  
 JOB NO.: 1110-18

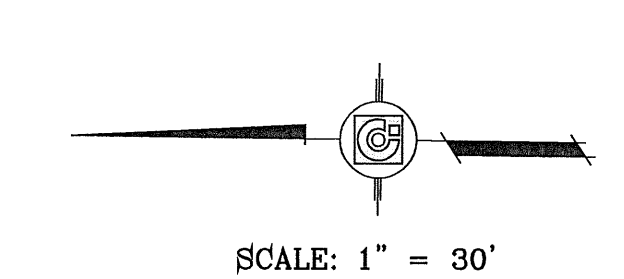
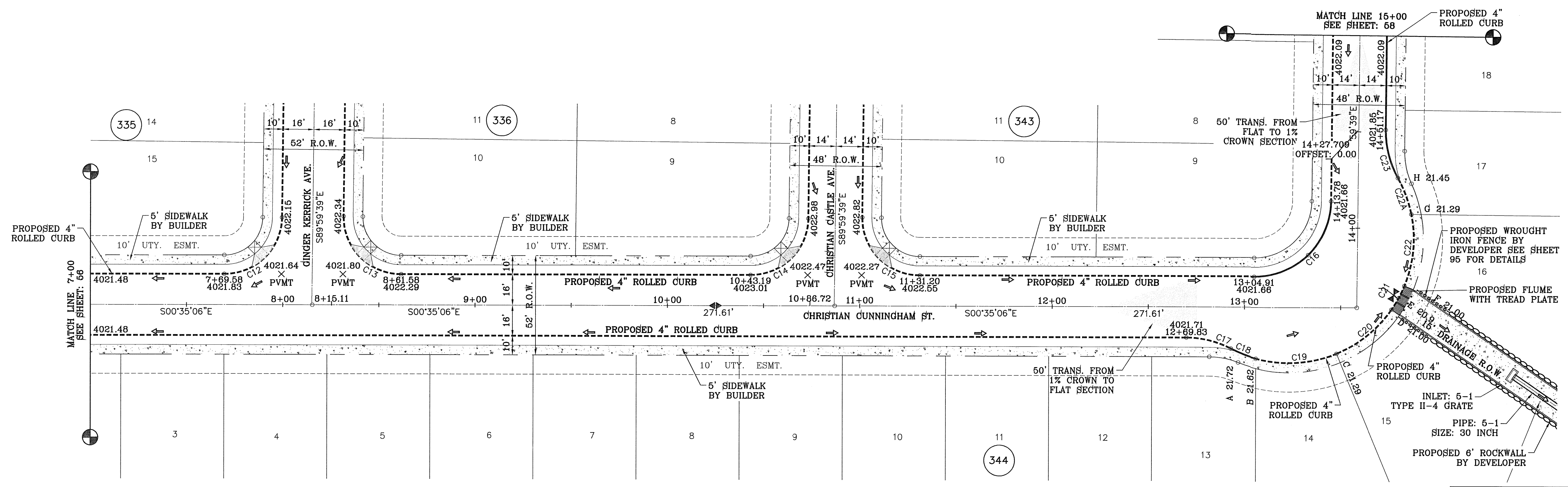


**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286



**SHEET TITLE**  
**STREET PLAN - PROFILE**  
**CHRISTIAN CUNNINGHAM ST.**  
 STA. 0+00 TO 7+00

FILE LOCATION S:\Subdivisions\TDE 67\DWG\TDE67-PP13-CHRISTIAN RANDALL-PERUVIAN PLOTTED ON Thursday, August 23, 2012 9:06:47 AM BY OSCAR MEDINA

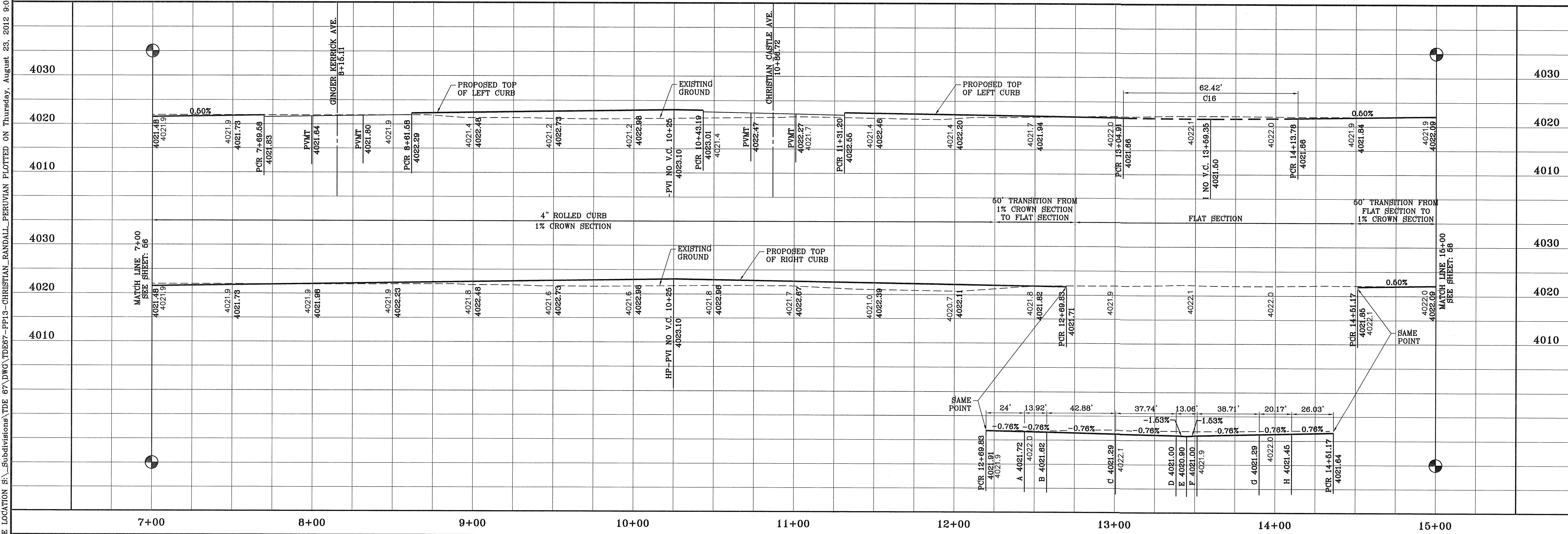


STREET CARRYING CAPACITY				
STATION	Q <sub>o</sub> CFS	Q <sub>av</sub> CFS	Velocity	Depth
12+25.00	19.88	49.89	2.64	0.33'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C12	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C13	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C14	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C15	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C16	40.00'	62.42'	39.59'	56.28'	S45°17'23"E	89°24'33"
C17	50.00'	24.00'	12.24'	23.77'	N13°10'06"E	27°30'24"
C18	65.00'	13.92'	6.98'	13.89'	S20°47'19"W	12°15'58"
C19	65.00'	42.88'	22.25'	42.10'	S4°14'32"E	37°47'44"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C20	65.00'	37.74'	19.42'	37.21'	S39°46'26"E	33°16'05"
C21	65.00'	13.06'	6.55'	13.04'	S62°09'55"E	11°30'51"
C22	65.00'	38.71'	19.95'	38.14'	S84°58'53"E	34°07'07"
C22A	65.00'	20.17'	10.17'	20.09'	N69°04'03"E	17°47'01"
C23	50.00'	26.03'	13.32'	25.74'	S75°05'26"W	29°49'48"



**TIERRA DEL ESTE UNIT SIXTY SEVEN**

PROJECT NAME

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT IN. ELEVATION 4017.47

BENCHMARK

DATE: 10/3/11  
BY: O.M.

REVISIONS AS PER 8/24/11 REDLINES  
DATE: 11/1/11  
BY: O.M.

REVISIONS AS PER 10/19/11 REDLINES  
DATE: 11/1/11  
BY: O.M.

BEING PORTION OF SECTION 37, BLOCK 76, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, EL PASO COUNTY, TEXAS  
CITY OF EL PASO, TEXAS  
CONTAINING: 166,204± ACRES

ENGINEER'S SEAL

CONDE INC.  
ENGINEERING / PLANNING SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

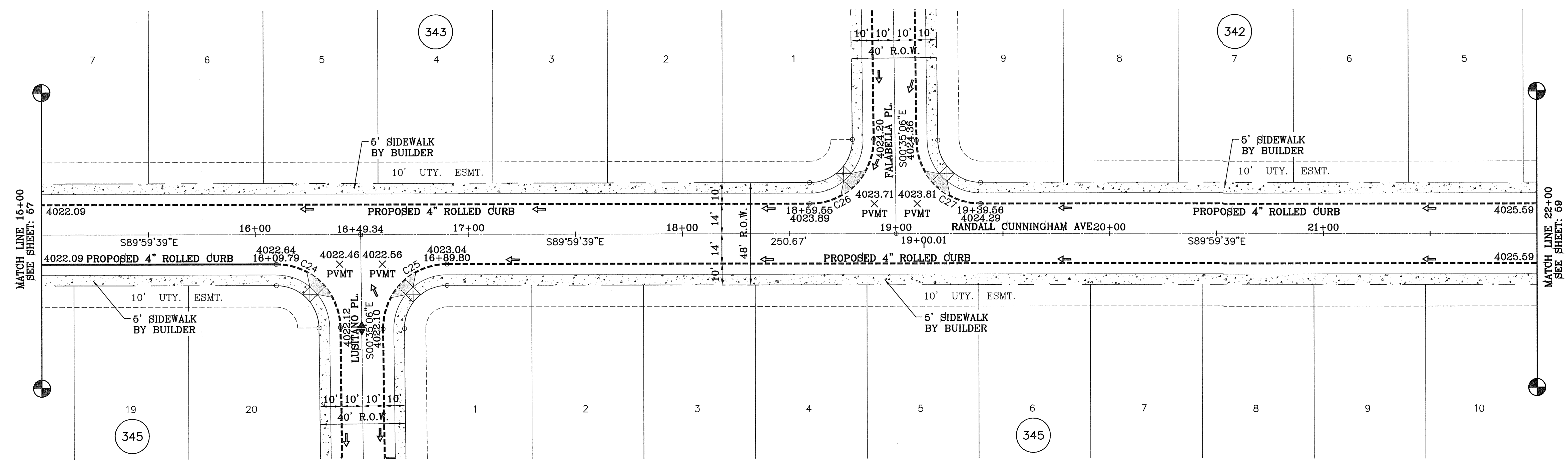
SHEET TITLE

**STREET PROFILE**  
**CHRISTIAN CUNNINGHAM ST. & RANDALL CUNNINGHAM AVE.**  
STA. 7+00 TO 15+00

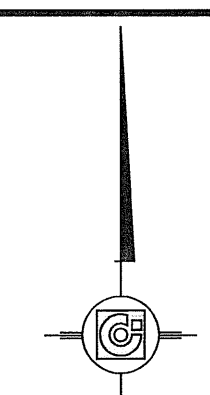
SHT 57 OF 112



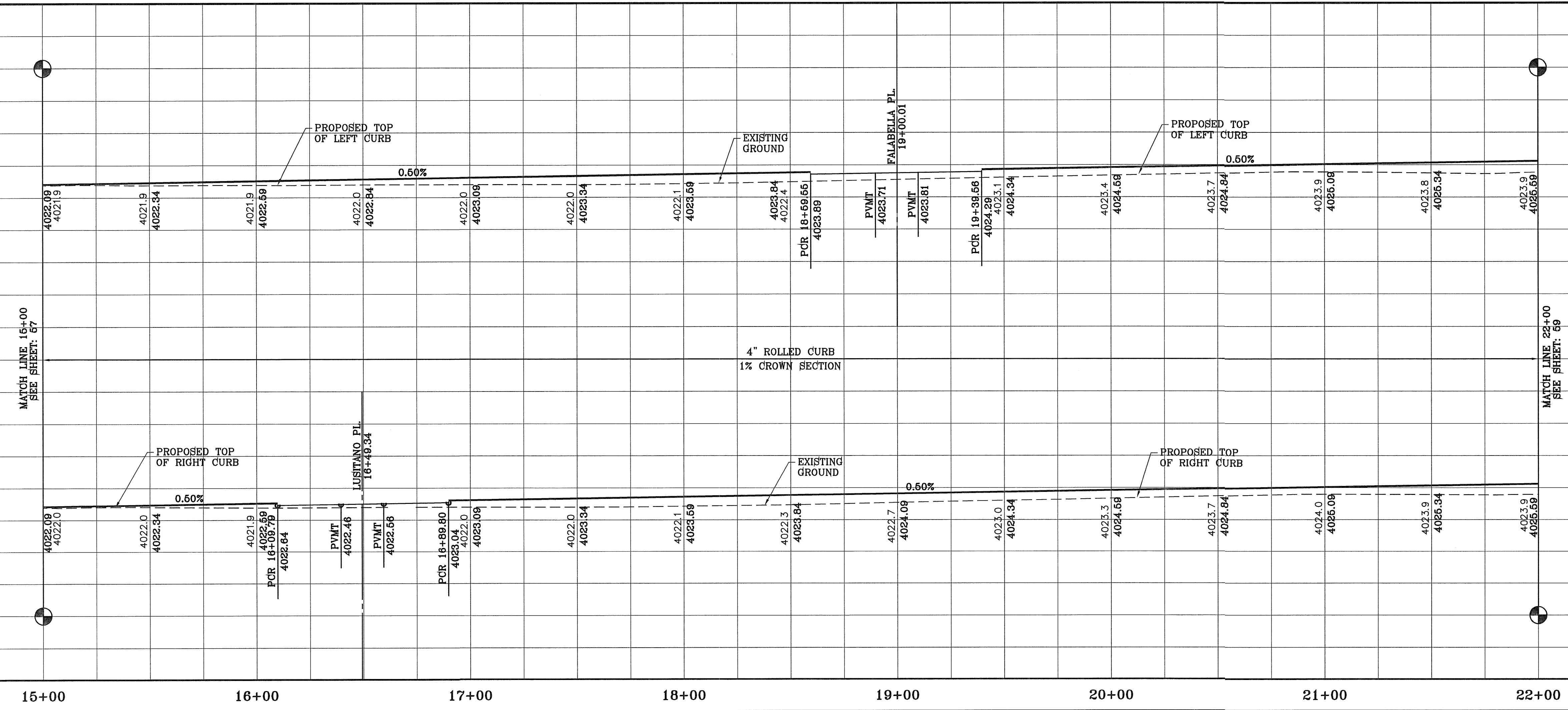
FILE LOCATION S:\\_Subdivisions\TDE 67.DWG\TDE67-PP13-CHRISTIAN\_RANDALL\_PERUVIAN\_PLOTTED ON Thursday, August 23, 2012 9:06:55 AM BY OSCAR MEDINA



SCALE: 1" = 30'



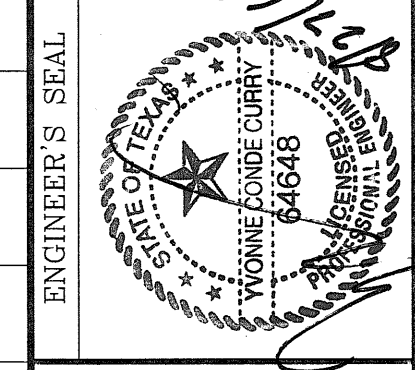
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C24	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C25	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C26	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C27	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"



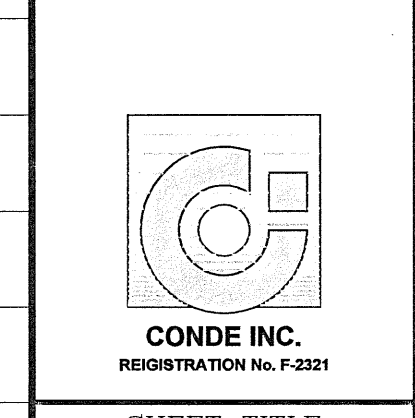
BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST AND SPANISH POINT LN	ELEVATION 4017.47
DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES O.M.

**TERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 97, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS  
 CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 1.662.254± ACRES

SCALE  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: EFG/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

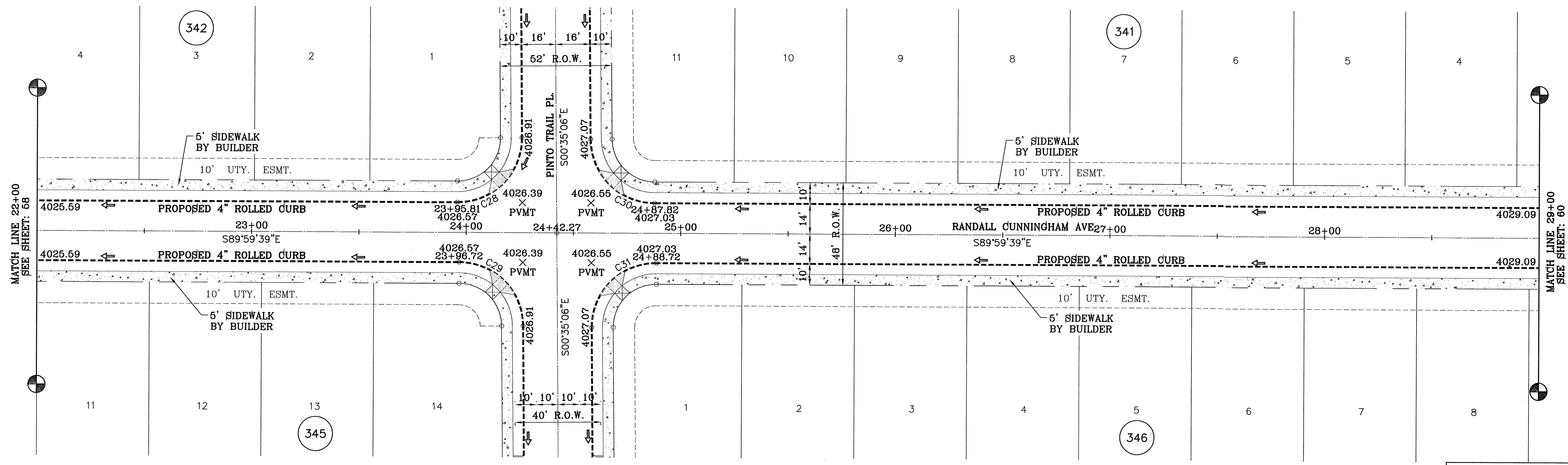


**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 582-0283  
 FAX: (915) 582-0286

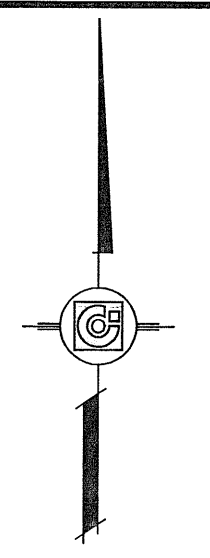


SHEET TITLE  
 STREET  
 PLAN-PROFILE  
**RANDALL CUNNINGHAM AVE.**  
 STA. 15+00 TO 22+00

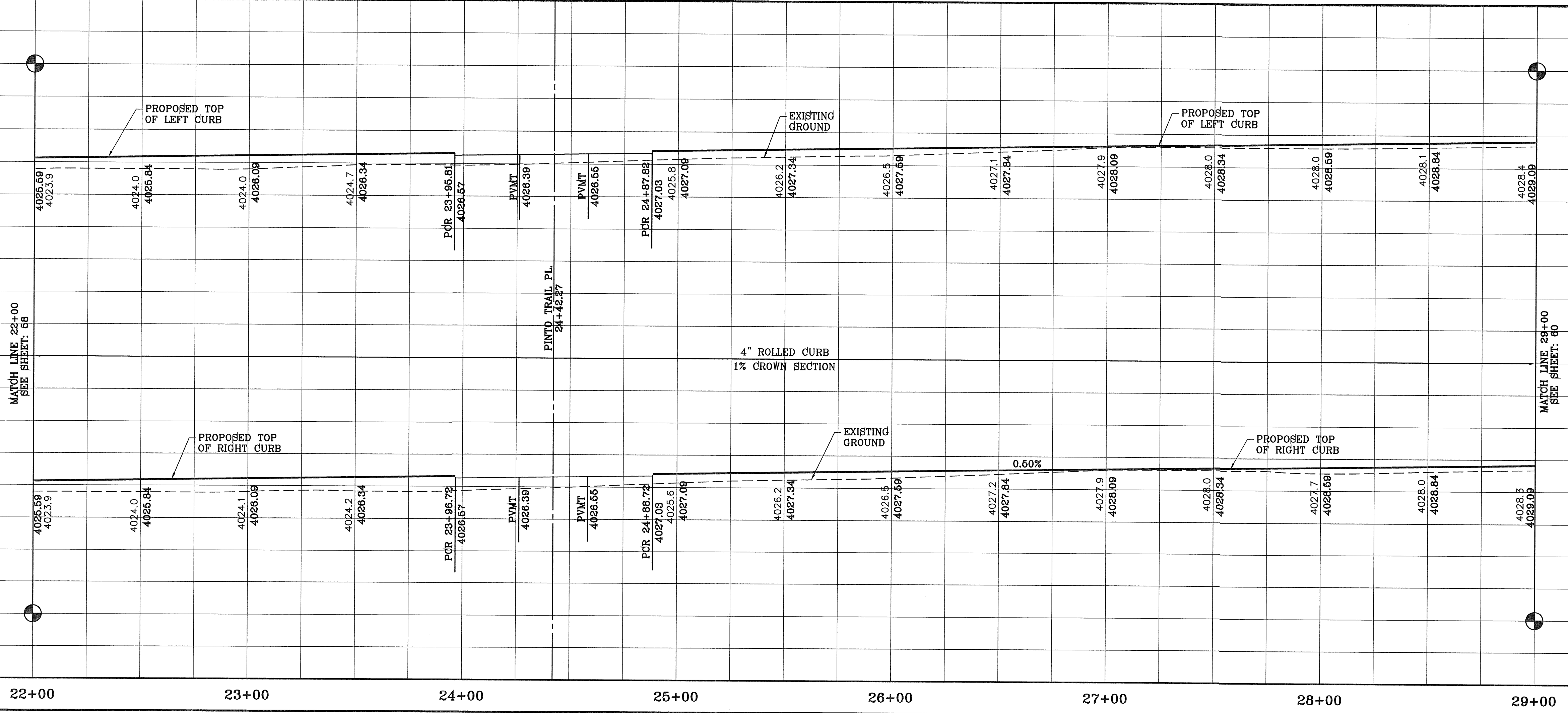
FILE LOCATION S:\\_Shobdivisions\TDE 67\DWG\TDE67-PP13-CHRISTIAN-RANDALL-PERUVIAN PLOTTED ON Thursday, August 23, 2012 9:07:05 AM BY OSCAR MEDINA



SCALE: 1" = 30'



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C28	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C29	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C30	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C31	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47
DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES

**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PART OF SECTION 37, BLOCK 78, TOWNSHIP 2, TEXAS AND COUNTY OF EL PASO, TEXAS  
 CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 166.254± ACRES

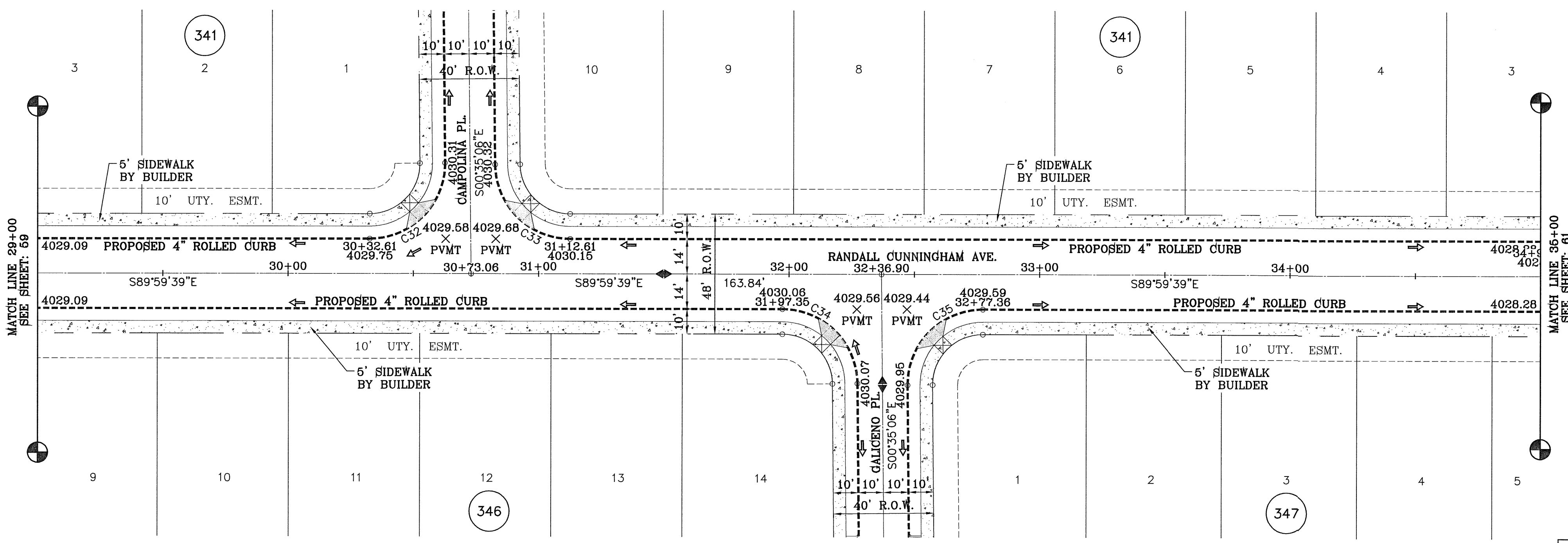
**ENGINEER'S SEAL**  
 CONDE INC.  
 ENGINEERING / PLANNING SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**CONDE INC.**  
 ENGINEERING / PLANNING SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**SHEET TITLE**  
 STREET PROFILE  
**RANDALL CUNNINGHAM AVE.**  
 STA. 22+00 TO 29+00

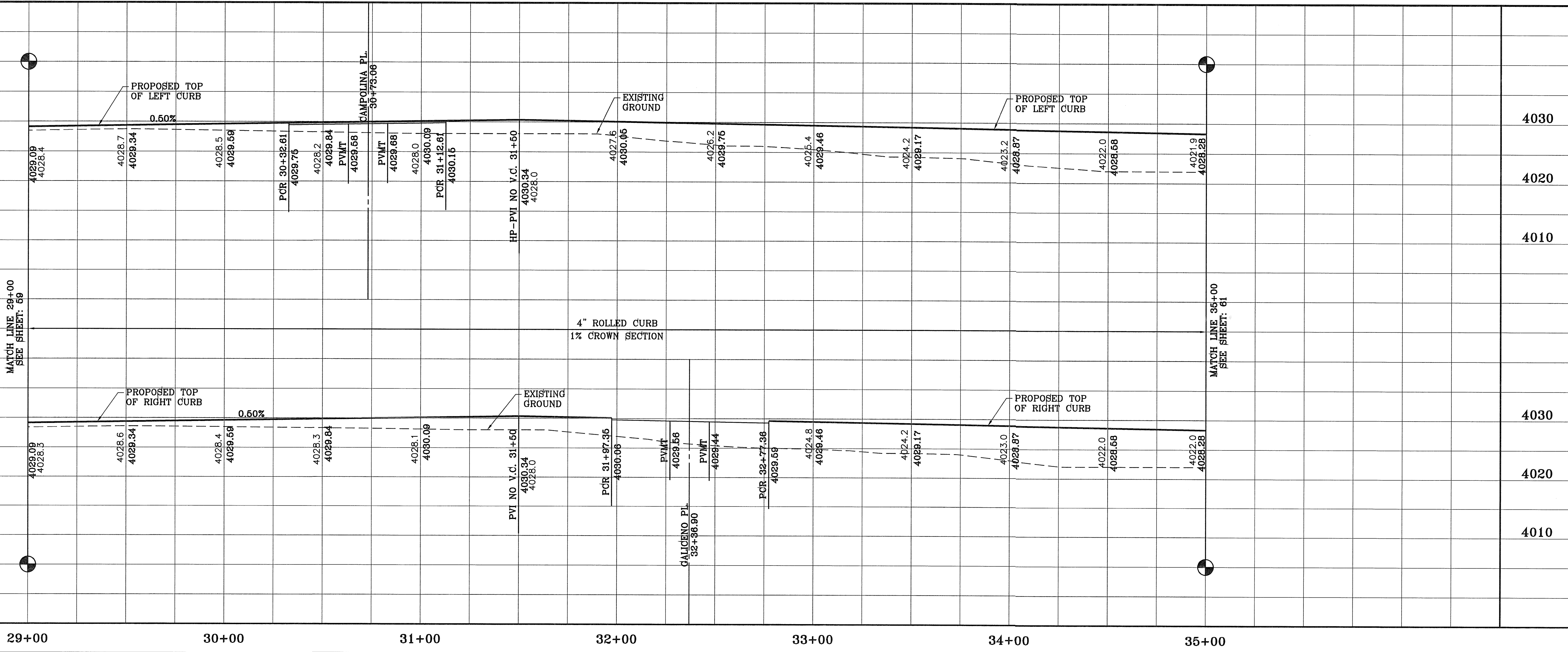


FILE LOCATION: S:\\_Std\divisions\TDE 67\DWG\TDE67-PP13-CHRISTIAN\_RANDALL\_PERUVIAN\_PLOTTED ON Thursday, August 23, 2012 9:07:14 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C32	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C33	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C34	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C35	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47
DATE	10/3/11
BY	O.M.
REVISIONS	REVISIONS AS PER 8/24/11 REDLINES
	REVISIONS AS PER 10/19/11 REDLINES

**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS  
 CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 166.254± ACRES

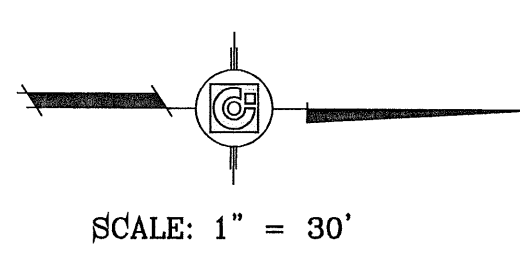
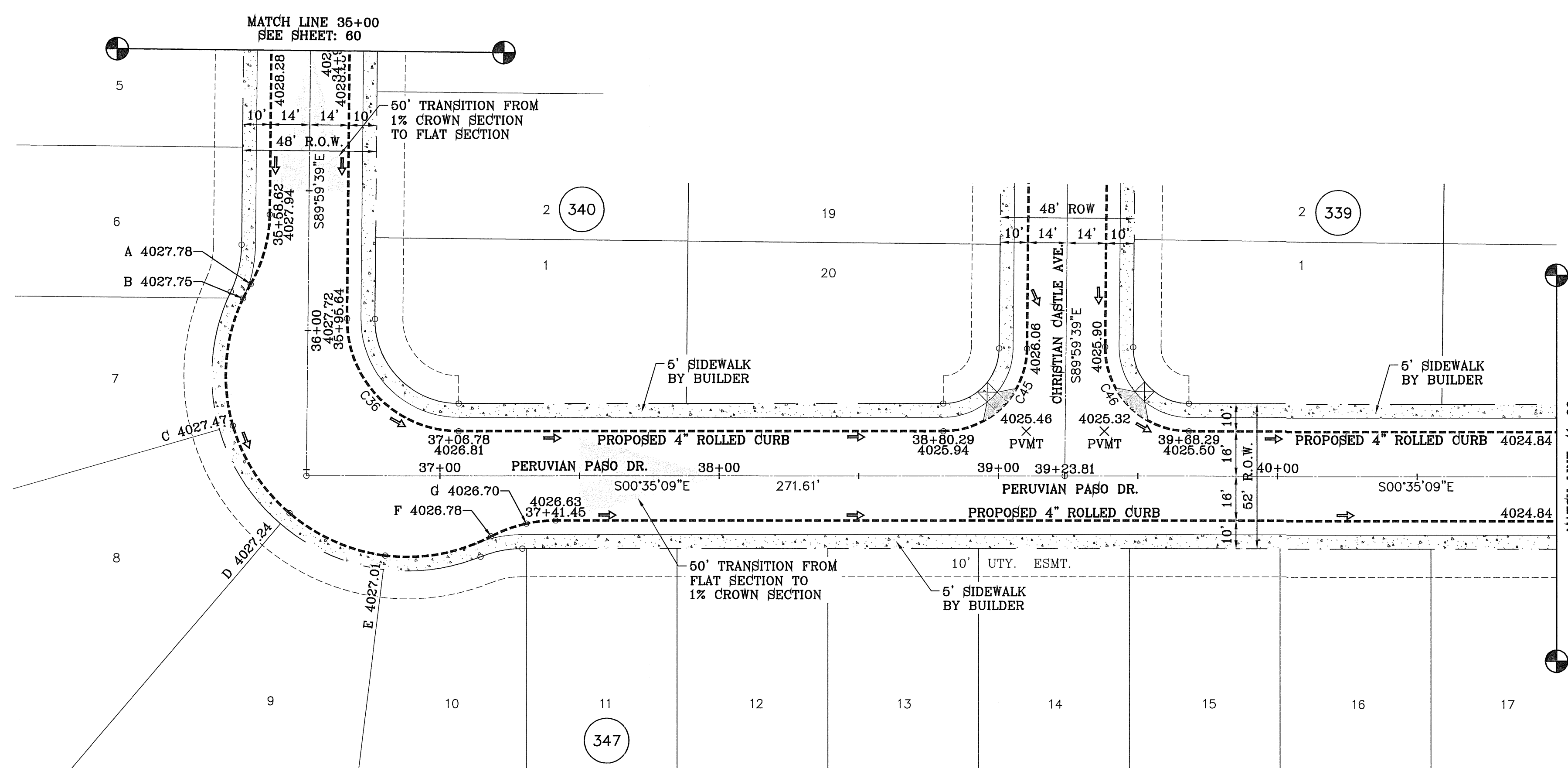
SCALE  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: ERF/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

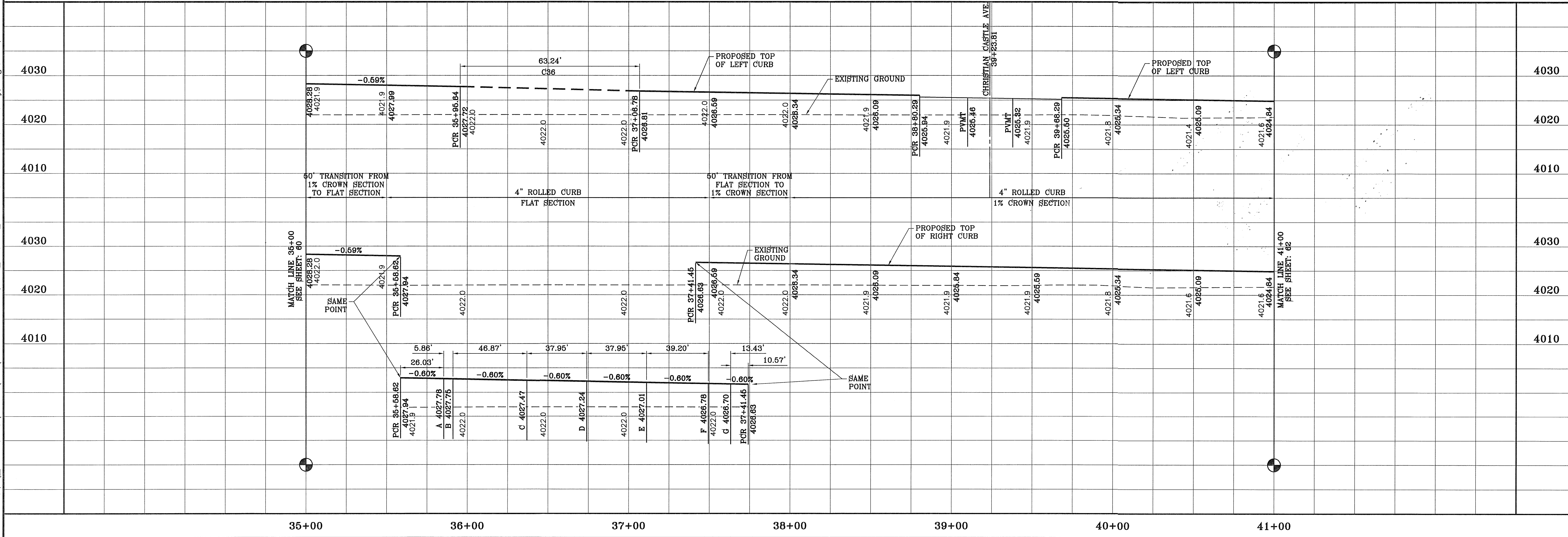
**CONDE INC.**  
 REGISTRATION No. F-2321

SHEET TITLE  
**STREET PLAN-PROFILE**  
**RANDALL CUNNINGHAM AVE.**  
 STA. 29+00 TO 35+00

FILE LOCATION E:\Subdivisions\TDE 67\DWG\TDE67-PP13-CHRISTIAN\_RANDALL\_PERUVIAN\_PLOTTED ON Thursday, August 23, 2012 9:07:19 AM BY OSCAR MEDINA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C36	40.00'	63.24'	40.42'	56.86'	N44°42'36"E	90°35'30"
C37	50.00'	26.03'	13.32'	25.74'	N75°04'45"W	29°49'48"
C38	65.00'	5.86'	2.93'	5.86'	S62°44'49"E	5°09'57"
C39	65.00'	46.87'	24.50'	45.86'	S85°59'08"E	41°18'41"
C40	65.00'	37.95'	19.53'	37.41'	N56°38'04"E	33°26'54"
C41	65.00'	37.95'	19.53'	37.41'	N23°11'10"E	33°26'54"
C42	65.00'	39.20'	20.22'	38.61'	N10°48'55"W	34°33'17"
C43	50.00'	13.43'	6.76'	13.39'	S20°23'44"E	15°23'39"
C44	50.00'	10.57'	5.30'	10.55'	S6°38'32"E	12°06'45"
C45	30.00'	46.81'	29.69'	42.21'	N45°17'24"W	89°24'30"
C46	30.00'	47.43'	30.31'	42.64'	N44°42'36"E	90°35'30"



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47
DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
BY	O.M.
	O.M.

**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, PERUVIAN PASO, TEXAS

CITY CONTAINING: 166.264± ACRES

ENGINEER'S SEAL

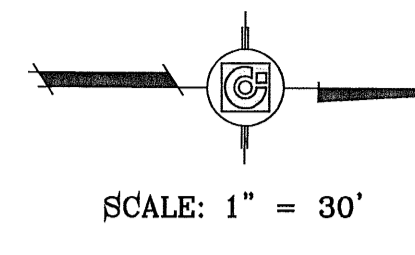
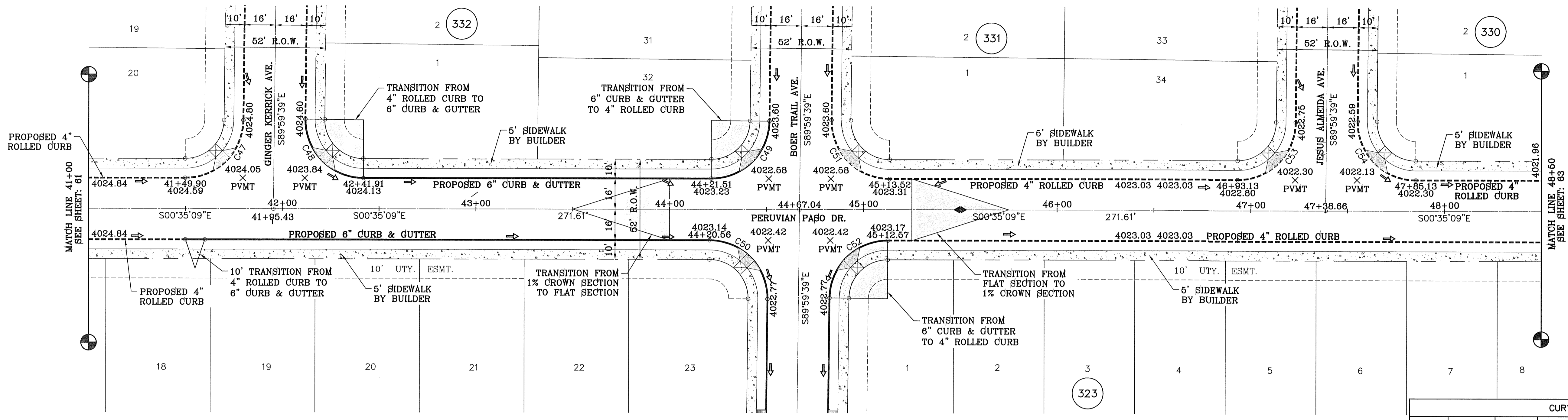
SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: JC  
INITIATED BY: ERG/OM  
CHECKED BY: JC  
JOB NO.: 1110-18

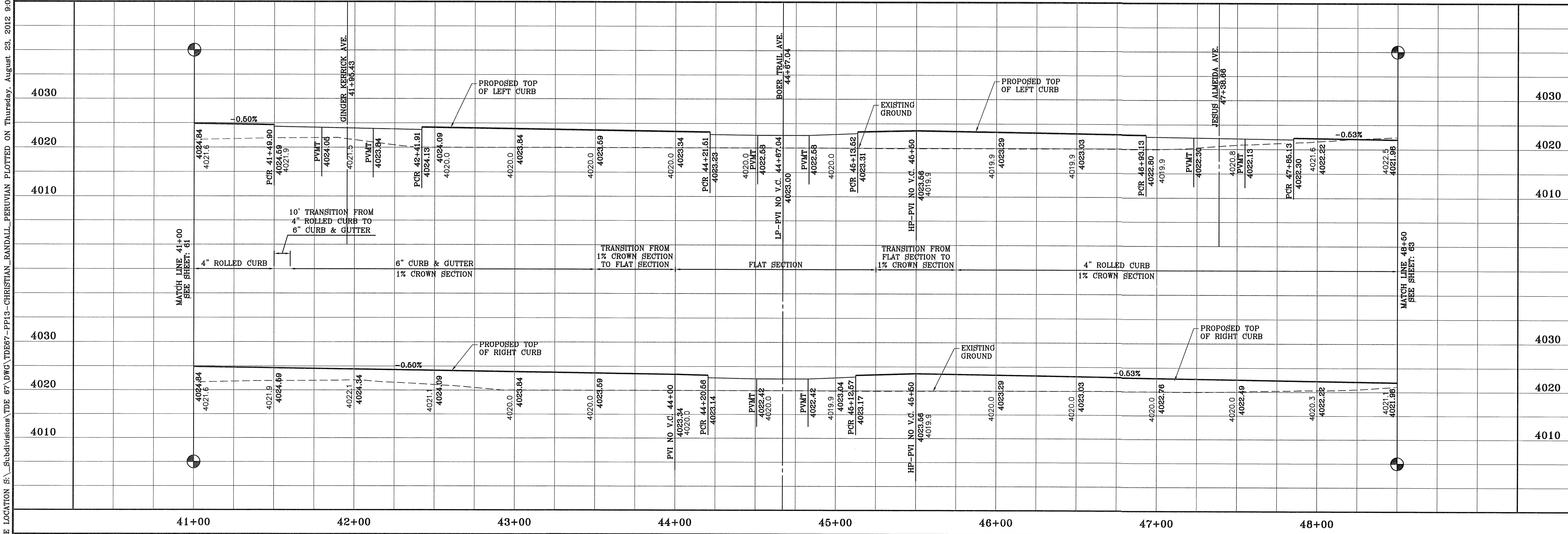
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN-PROFILE**  
**RANDALL CUNNINGHAM**  
**AVE. & PERUVIAN PASO DR.**  
STA. 35+00 TO 41+00

FILE LOCATION S:\Subdivisions\TDE 67\_DWC\TDE67-PP13-CHRISTIAN RANDALL-PERUVIAN PLOTTED ON Thursday, August 23, 2012 9:07:24 AM BY OSCAR MEDINA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C47	30.00'	46.81'	29.69'	42.21'	N45°17'24"W	89°24'30"
C48	30.00'	47.43'	30.31'	42.64'	N44°42'36"E	90°35'30"
C49	30.00'	46.81'	29.69'	42.21'	N45°17'24"W	89°24'30"
C50	30.00'	47.43'	30.31'	42.64'	S44°42'36"W	90°35'30"
C51	30.00'	47.43'	30.31'	42.64'	N44°42'36"E	90°35'30"
C52	30.00'	46.81'	29.69'	42.21'	S45°17'24"E	89°24'30"
C53	30.00'	46.81'	29.69'	42.21'	N45°17'24"W	89°24'30"
C54	30.00'	47.43'	30.31'	42.64'	N44°42'36"E	90°35'30"



PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BENCHMARK  
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.  
 ELEVATION 4017.47

REVISIONS  
 DATE BY  
 10/2/11 REVISIONS AS PER 8/24/11 REDLINES O.M.  
 11/1/11 REVISIONS AS PER 10/19/11 REDLINES O.M.

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166,264± ACRES

ENGINEER'S SEAL  
  
 DESIGN BY: YC  
 INITIATED BY: EPJ/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

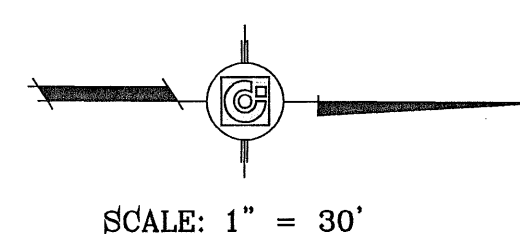
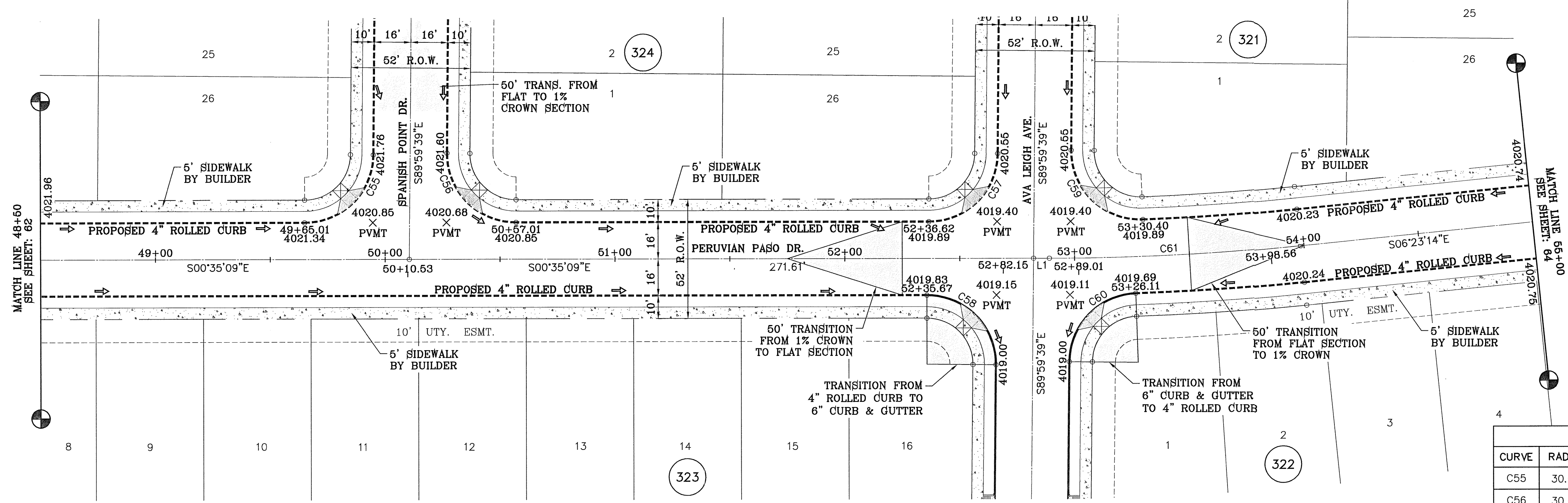
**CONDE INC.**  
 REGISTRATION No. F-3221

SHEET TITLE  
**STREET PLAN-PROFILE**

**PERUVIAN PASO DR.**

STA. 41+00 TO 48+50

FILE LOCATION: S:\\_Subdivisions\TDE 67 DWG\TDE67-PP13-CHRISTIAN\_RANDALL\_PERUVIAN\_PLOTTED ON Thursday, August 23, 2012 9:07:29 AM BY OSCAR MEDINA

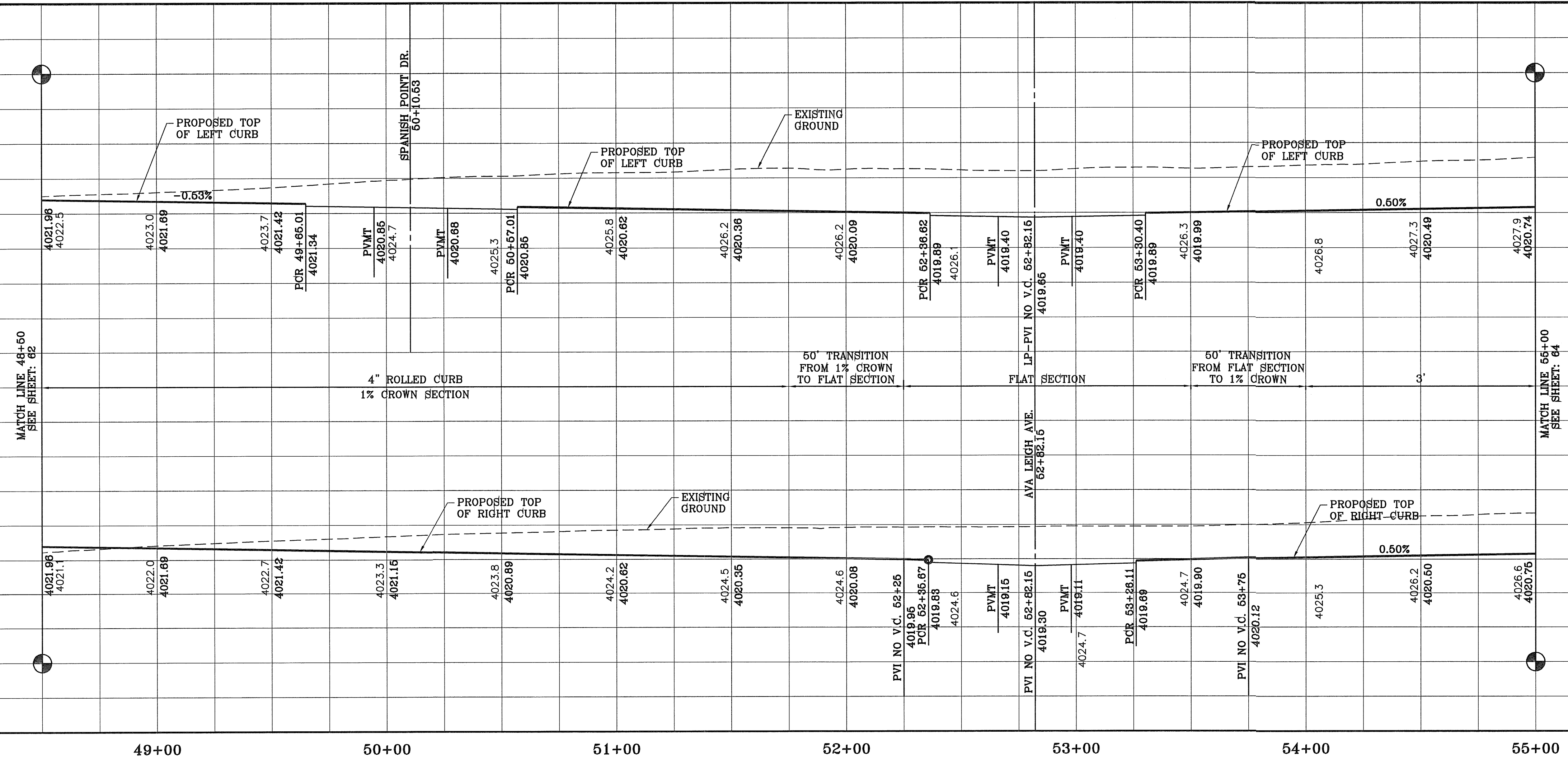


LINE TABLE

LINE	LENGTH	BEARING
L1	6.862	S00°35'09"E

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C55	30.00'	46.81'	29.69'	42.21'	N45°17'24"W	89°24'30"
C56	30.00'	47.43'	30.31'	42.64'	N44°42'36"E	90°35'30"
C57	30.00'	46.81'	29.69'	42.21'	N45°17'24"W	89°24'30"
C58	30.00'	47.43'	30.31'	42.64'	S44°42'36"W	90°35'30"
C59	30.00'	48.58'	31.49'	43.44'	N43°36'50"E	92°47'01"
C60	30.00'	45.79'	28.69'	41.47'	S46°16'21"E	87°26'37"
C61	1082.00'	109.55'	54.82'	109.50'	N3°29'12"W	5°48'04"



REVISIONS

DATE	REVISIONS	BY
10/9/11	REVISIONS AS PER 8/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.

**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.26± ACRES

ENGINEER'S SEAL

CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURETY DR. STE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286

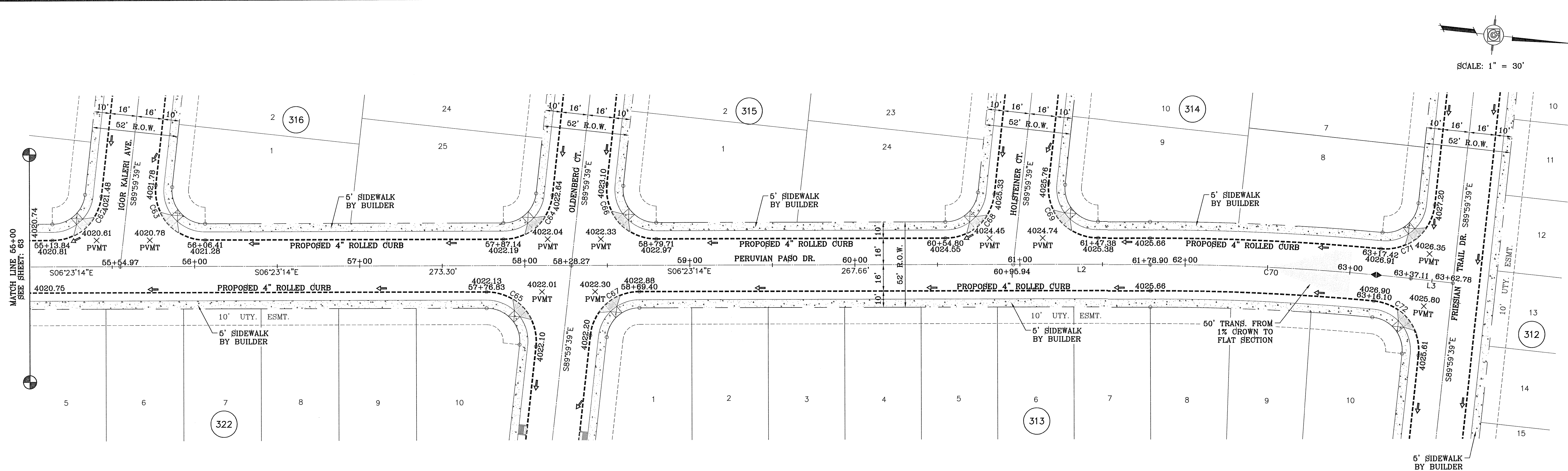
DATE: MAY 2012  
DESIGN BY: JC  
INITIATED BY: EFG/OM  
CHECKED BY: JC  
JOB NO.: 1110-18

**CONDE INC.**  
ENGINEERING / PLANNING SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN - PROFILE**  
**PERUVIAN PASO DR.**  
STA. 48+50 TO 55+00

SHT 63 OF 112

FILE LOCATION E:\Subdivisions\DE 67 DWG\TDE67-PP13-CHRISTIAN\_RANDALL\_PERUVIAN PLOTTED ON Thursday, August 23, 2012 9:07:36 AM BY OSCAR MEDINA

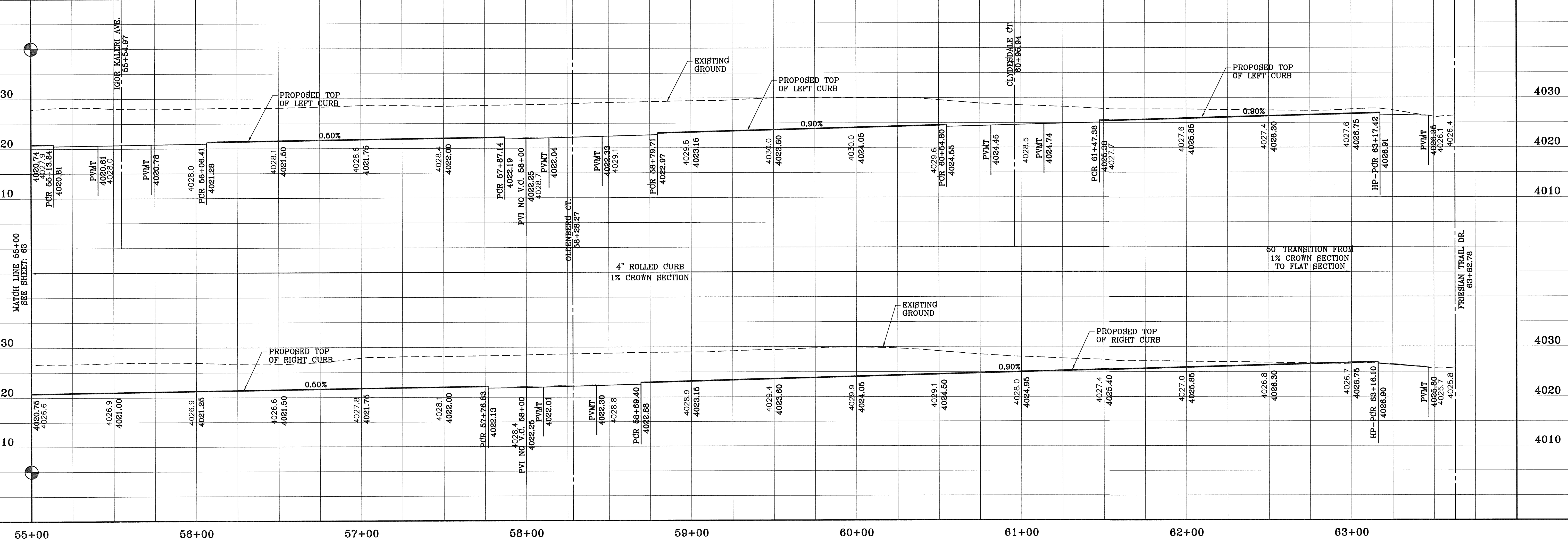


LINE TABLE		
LINE	LENGTH	BEARING
L2	82.963	S6°23'13.53"E
L3	25.667	N0°00'20.51"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C62	30.00'	43.78'	26.83'	39.99'	N48°11'27"W	83°36'26"
C63	30.00'	50.47'	33.55'	44.73'	N41°48'33"E	96°23'34"
C64	30.00'	43.78'	26.83'	39.99'	N48°11'27"W	83°36'26"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C65	30.00'	50.47'	33.55'	44.73'	S41°48'33"W	96°23'34"
C66	30.00'	50.47'	33.55'	44.73'	N41°48'33"E	96°23'34"
C67	30.00'	43.78'	26.83'	39.99'	S48°11'27"E	83°36'26"
C68	30.00'	43.78'	26.83'	39.99'	N48°11'27"W	83°36'26"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C69	30.00'	50.47'	33.55'	44.73'	N41°48'33"E	96°23'34"
C70	1418.00'	158.21'	79.19'	158.13'	S31°11'27"E	6°23'34"
C71	30.00'	46.71'	29.59'	42.13'	N45°23'32"W	89°12'15"
C72	30.00'	47.57'	30.45'	42.74'	S44°34'52"W	90°50'57"



**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, COUNTY OF EL PASO, TEXAS CONTAINING: 166.854± ACRES

PROJECT NAME: **TIERRA DEL ESTE UNIT SIXTY SEVEN**

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT L&N D88 DATUM ELEVATION 4017.47'

DATE: 10/3/11  
REVISIONS AS PER 8/24/11 REDLINES O.M.  
11/1/11 REVISIONS AS PER 10/19/11 REDLINES O.M.

SCALE: 1" = 30'  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: JC  
INITIATED BY: EPG/OM  
CHECKED BY: JC  
JOB NO.: 1110-18

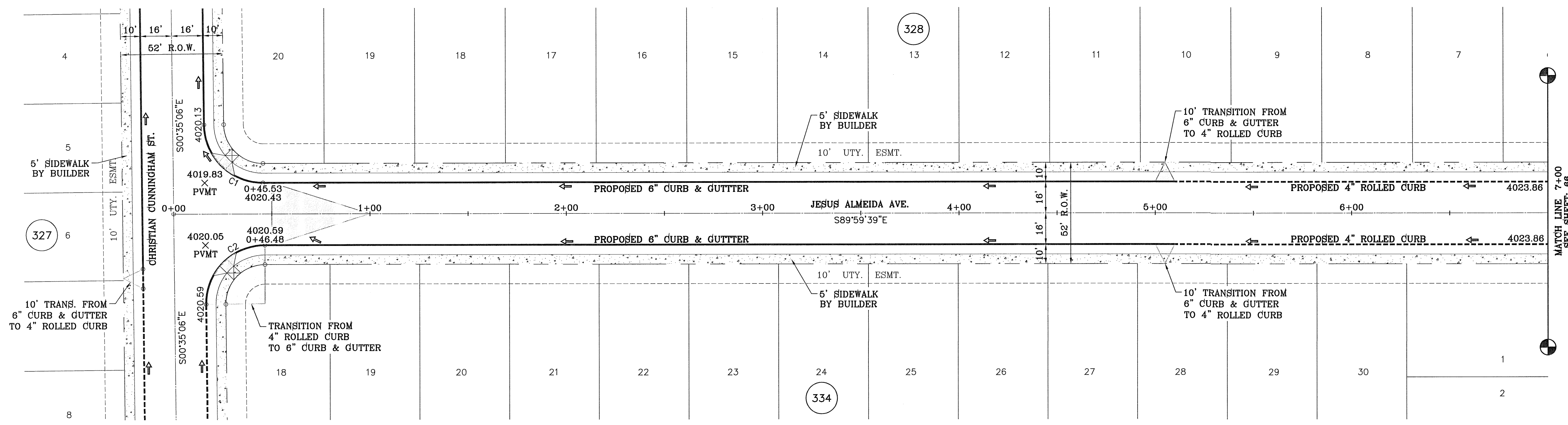
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 582-0283  
FAX: (915) 582-0286

SHEET TITLE  
**STREET PLAN - PROFILE**  
**PERUVIAN PASO DR.**  
STA. 55+00 TO 63+62.78

SHT 64 OF 112

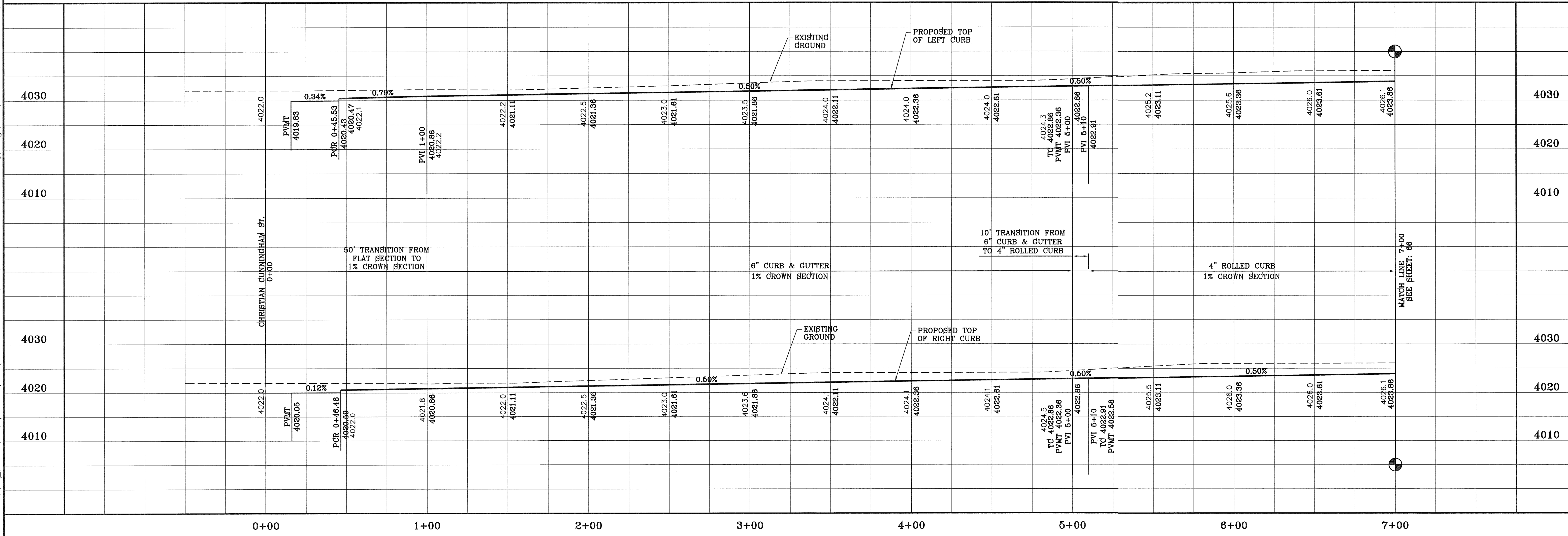


FILE LOCATION E:\\_Subdivisions\TDE 67 DWG\TDE67-PP14-JESUS ALMEIDA PLOTTED ON Thursday, August 23, 2012 9:07:56 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C2	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



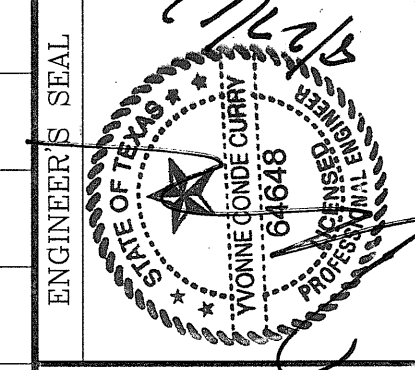
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JUAN MATEOS ST. AND SPANISH POINT.....NAVD88 DATUM ELEVATION 4017.47'		REVISIONS	BY
DATE	10/3/11	REVISIONS AS PER 6/24/11 REDLINES	O.M.
	11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.

PROJECT NAME  
**Tierra del Este Unit Sixty Seven**

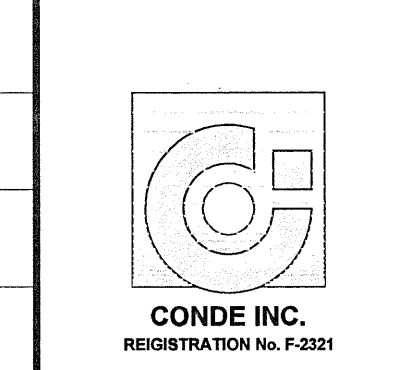
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, RANGE 10N, COUNTY OF PASO, TEXAS  
CITY OF EL PASO, TEXAS  
CONTAINING: 166.264± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EPG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

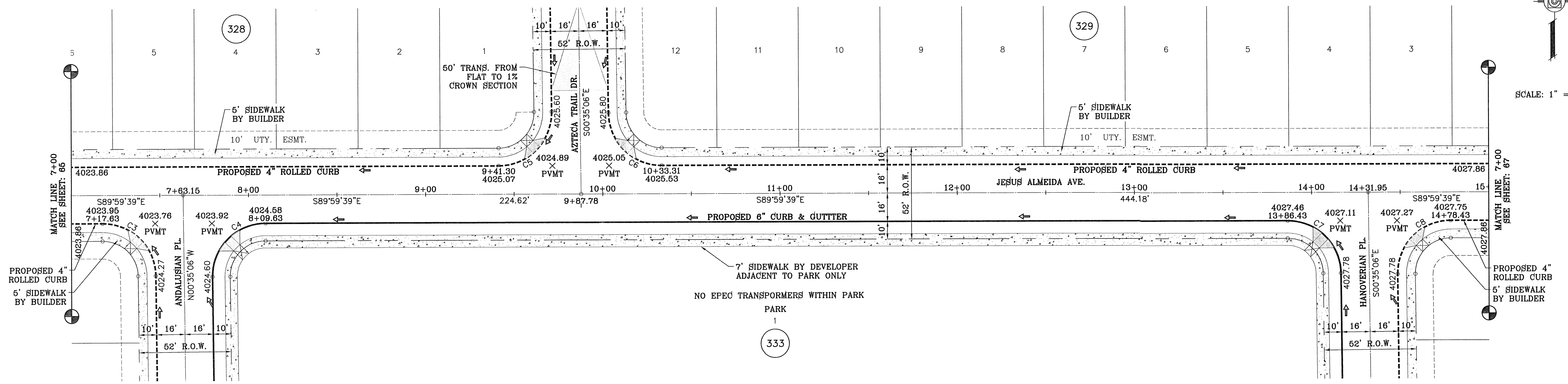


SHEET TITLE  
**STREET PLAN-PROFILE**

**JESUS ALMEIDA AVE.**

STA. 0+00 TO 7+00

FILE LOCATION: G:\Subdivisions\TDE 67\DWG\TDE67-PP14-JESUS ALMEIDA PLOTTED ON Thursday, August 23, 2012 9:08:02 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C3	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C4	30.00'	47.43'	30.31'	42.64'	S44°42'37"E	90°35'27"
C5	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C6	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C7	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C8	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"

BENCHMARK

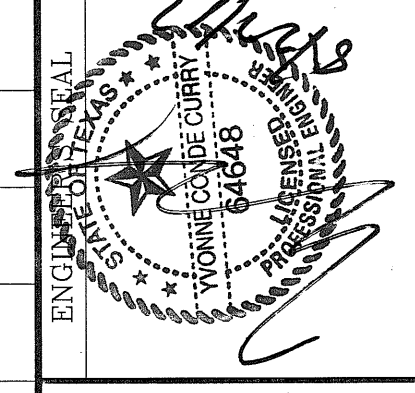
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION	4017.47
DATE	REVISIONS	
10/3/11	REVISIONS AS PER 8/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

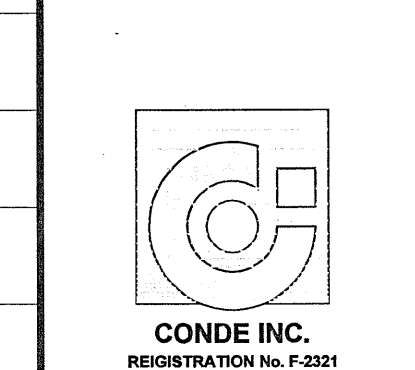
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, COUNTY OF EL PASO, TEXAS  
CITY OF EL PASO, COUNTY, TEXAS  
CONTAINING: 166.264± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18



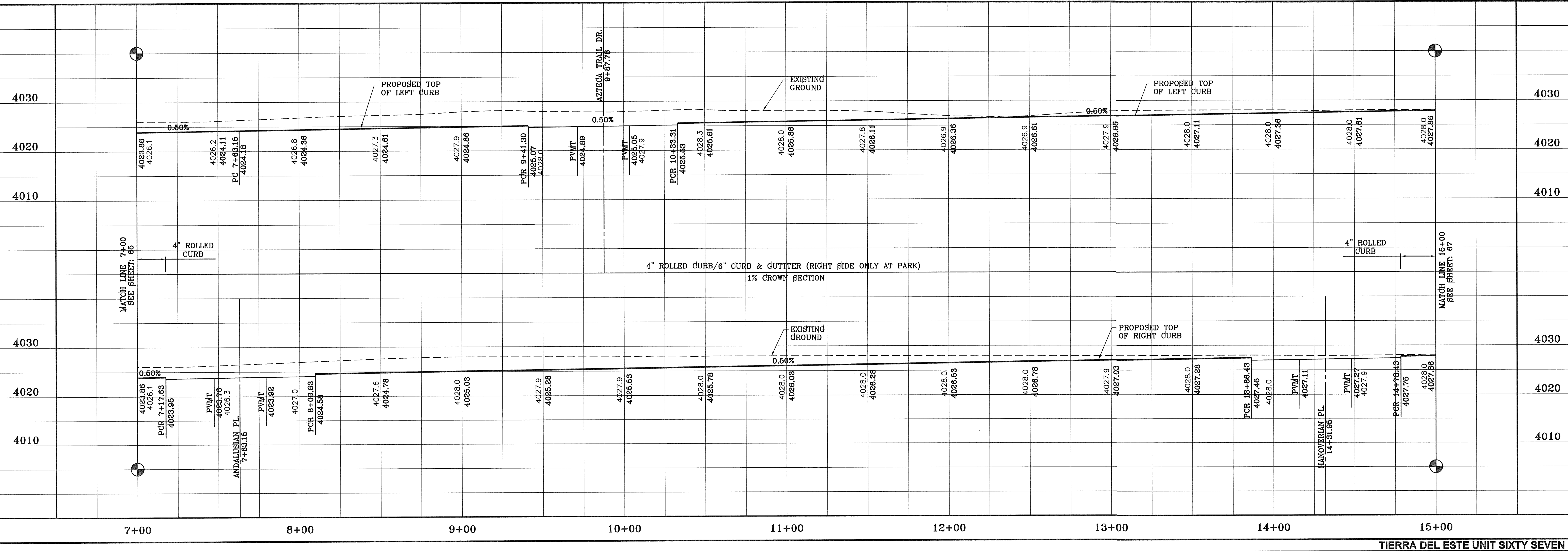
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



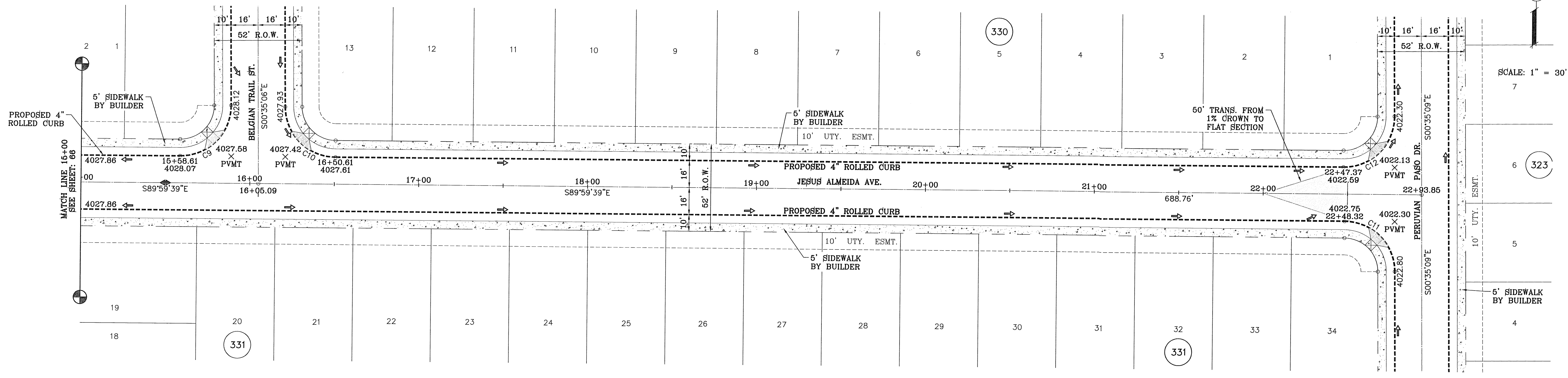
SHEET TITLE  
**STREET PLAN - PROFILE**

**JESUS ALMEIDA AVE.**

STA. 7+00 TO 15+00

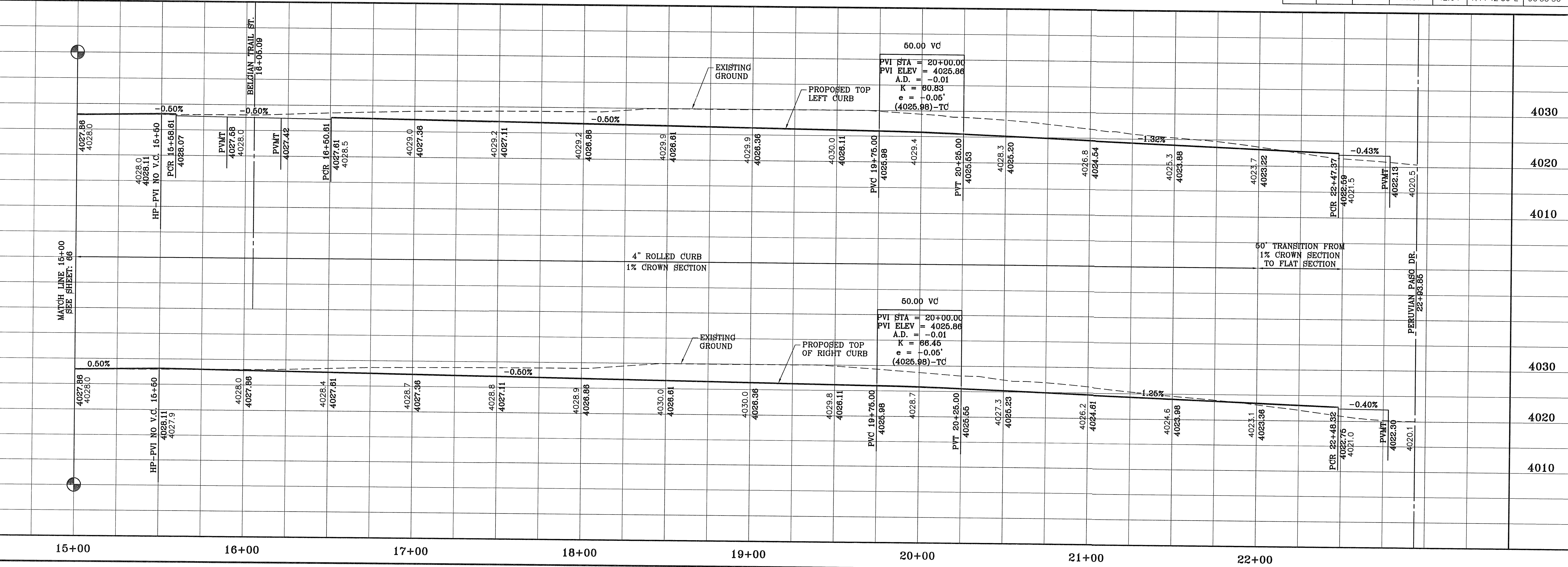
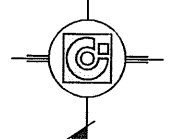


FILE LOCATION: E:\Subdivisions\TDE 67.DWG\TDB67-PP14-JESUS ALMEIDA PLOTTED ON Thursday, August 23, 2012 9:08:08 AM BY OSCAR MEDINA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C9	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C10	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C11	30.00'	46.81'	29.69'	42.21'	N45°17'24"W	89°24'30"
C12	30.00'	47.43'	30.31'	42.64'	N44°42'36"E	90°35'30"

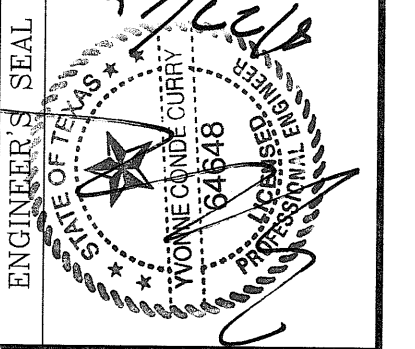
SCALE: 1" = 30'



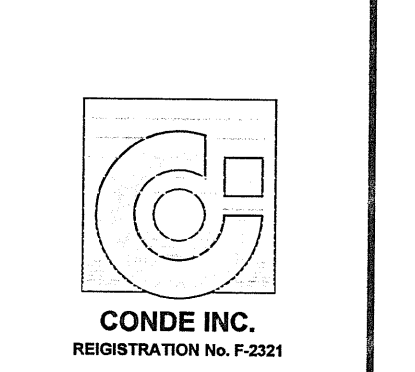
BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47  
DATE 10/9/11  
REVISIONS AS PER 8/24/11 REDLINES  
BY O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

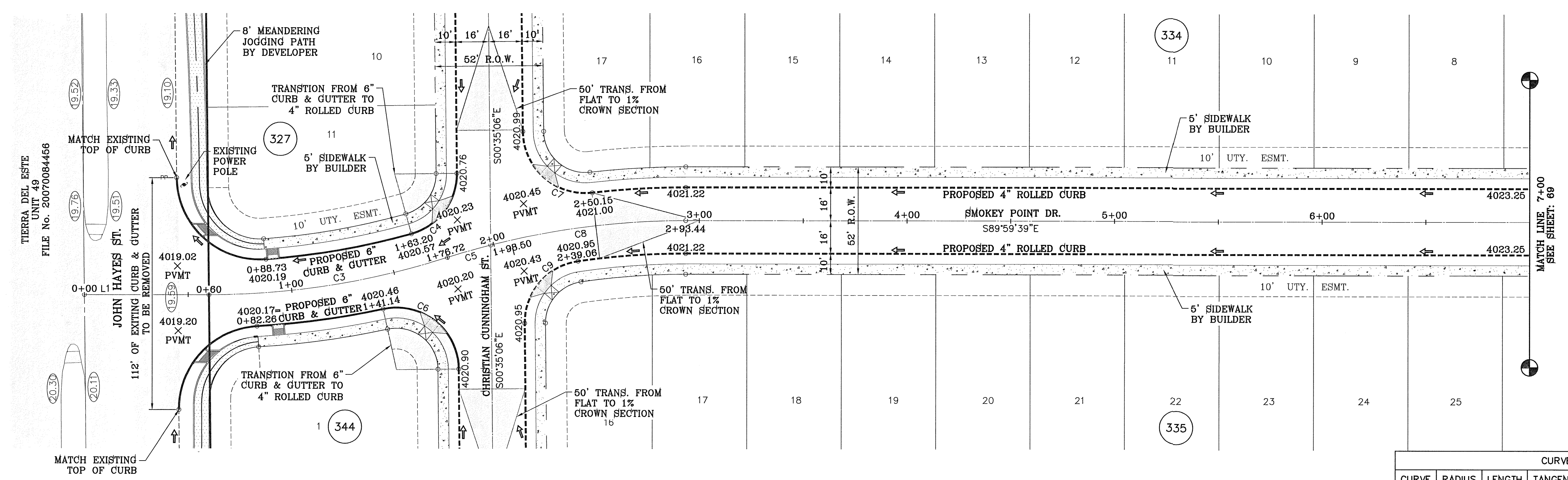


CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6060 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



SHEET TITLE  
**STREET PLAN-PROFILE**  
**JESUS ALMEIDA AVE.**  
STA. 15+00 TO 22+93.86

FILE LOCATION E:\Subdivisions\TDE 67\DWG\TDE67-PP16-SMOKEY POINT PLOTTED ON Thursday, August 23, 2012 9:08:26 AM BY OSCAR MEDINA

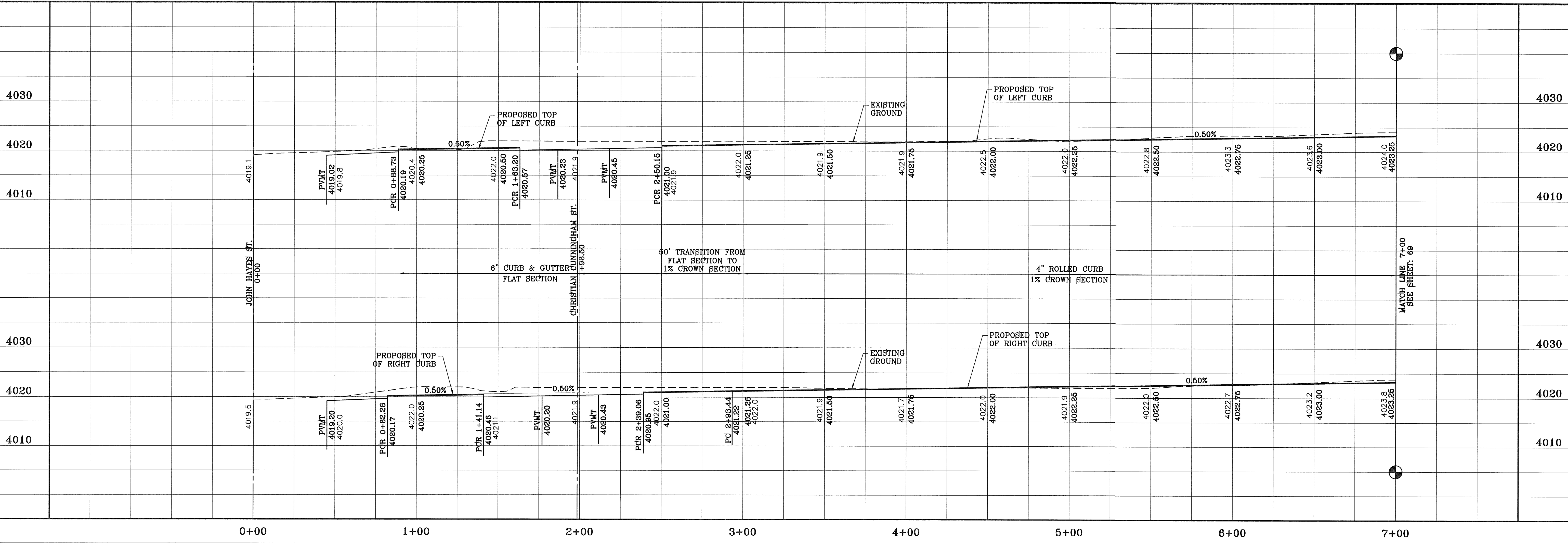


SCALE: 1" = 30'

LINE TABLE		
LINE	LENGTH	BEARING
L1	60.003	S89°59'39.49"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	40.00'	65.48'	42.74'	58.41'	S47°29'04"E	93°47'55"
C2	40.00'	60.87'	38.08'	55.16'	S43°00'35"W	87°11'22"
C3	375.00'	116.72'	58.84'	116.25'	N81°05'20"E	17°50'00"
C4	30.00'	39.18'	22.95'	36.45'	N36°49'35"E	74°49'22"
C5	375.00'	21.78'	10.89'	21.78'	S73°50'10"W	3°19'39"
C6	30.00'	53.31'	36.92'	46.56'	N51°29'16"W	101°48'20"
C7	30.00'	50.28'	33.33'	44.60'	S48°35'49"E	96°01'26"
C8	375.00'	94.94'	47.73'	94.69'	S82°45'10"W	14°30'21"
C9	30.00'	43.08'	26.21'	39.48'	S40°33'22"W	82°16'57"

○ DENOTES AS BUILT CONDITION ONLY



**TIERRA DEL ESTE UNIT SIXTY SEVEN**

PROJECT NAME: TIERRA DEL ESTE UNIT SIXTY SEVEN

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE: 10/9/11  
 REVISIONS AS PER 8/24/11 REDLINES  
 11/1/11  
 REVISIONS AS PER 10/19/11 REDLINES

DESIGN BY: YC  
 INITIATED BY: EFG/OM  
 CHECKED BY: YC

JOB NO.: 1110-18

ENGINEER'S SEAL: [Seal]

CONDE INC.  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

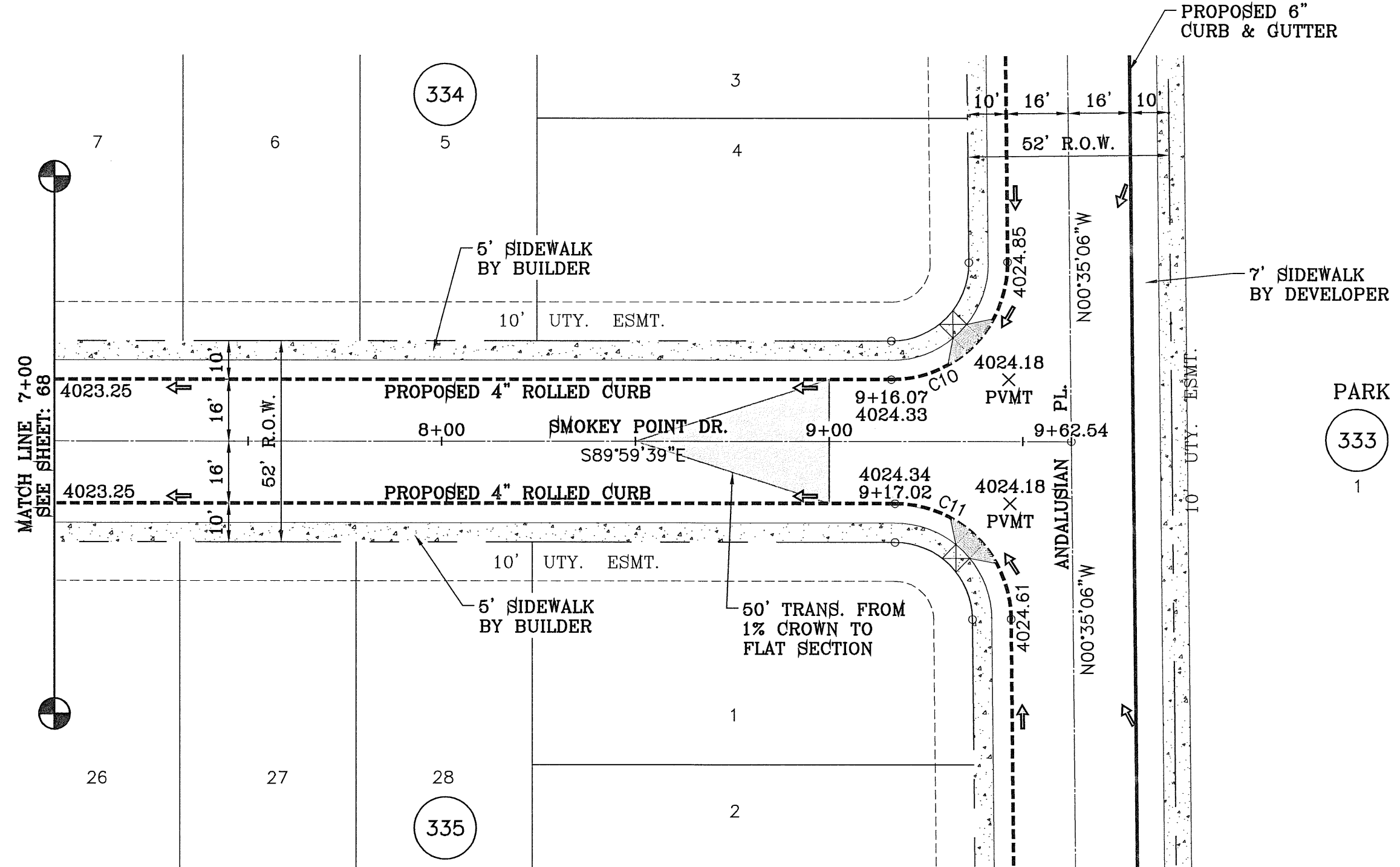
SHEET TITLE: STREET PLAN-PROFILE

**SMOKEY POINT DR.**

STA. 0+00 TO 7+00

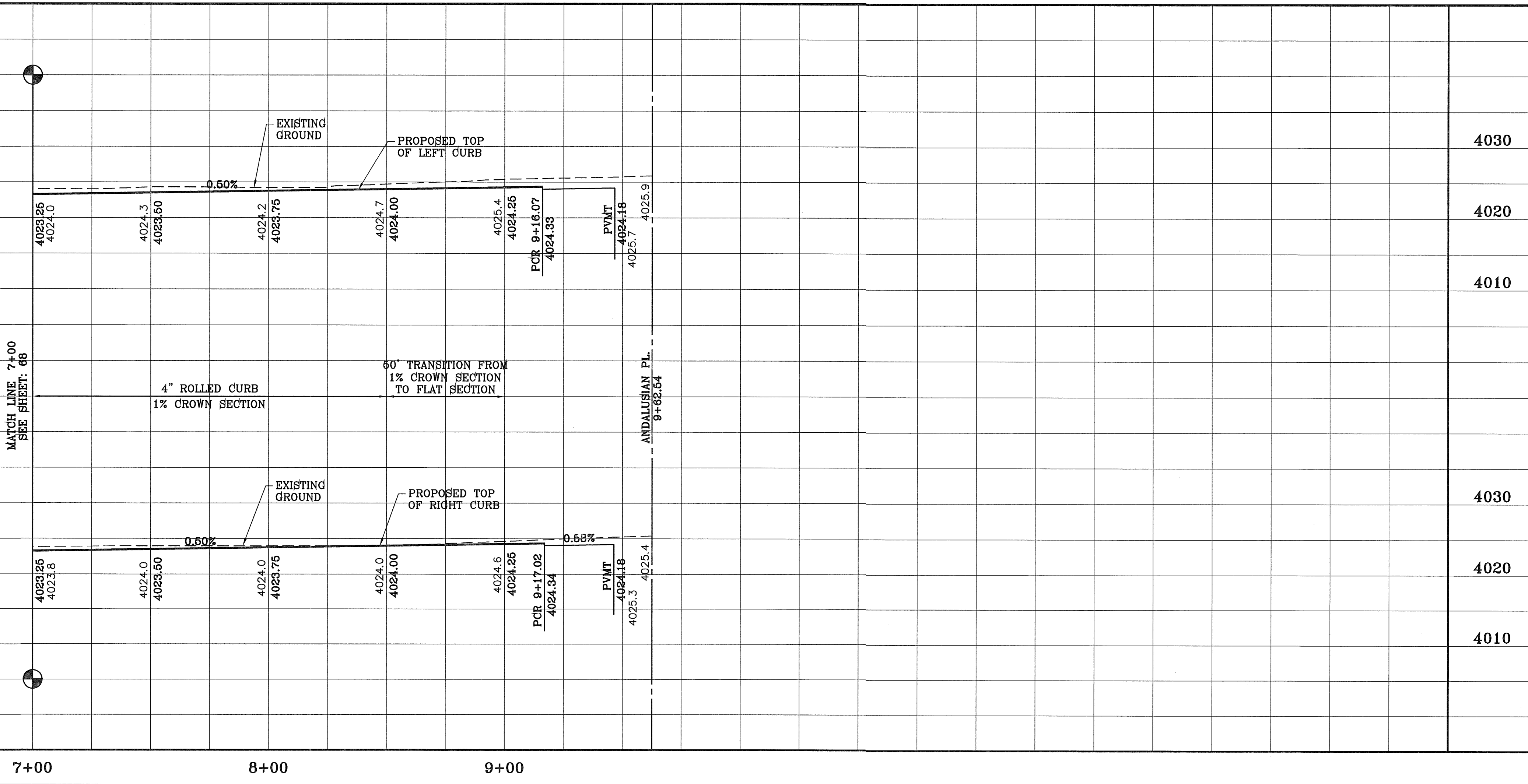
SHT 68 OF 112

FILE LOCATION E:\Subdivisions\TDE 87\DWG\TDB67-PP16-SMOKEY POINT PLOTTED ON Thursday, August 23, 2012 9:08:33 AM BY OSCAR MEDINA



SCALE: 1" = 30'

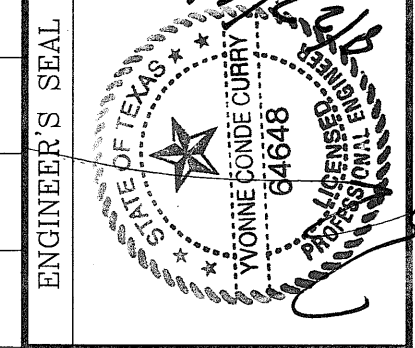
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C10	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C11	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"



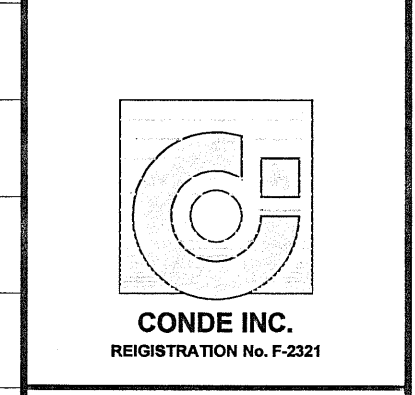
BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47
DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES

**PROJECT NAME**  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 166.254± ACRES

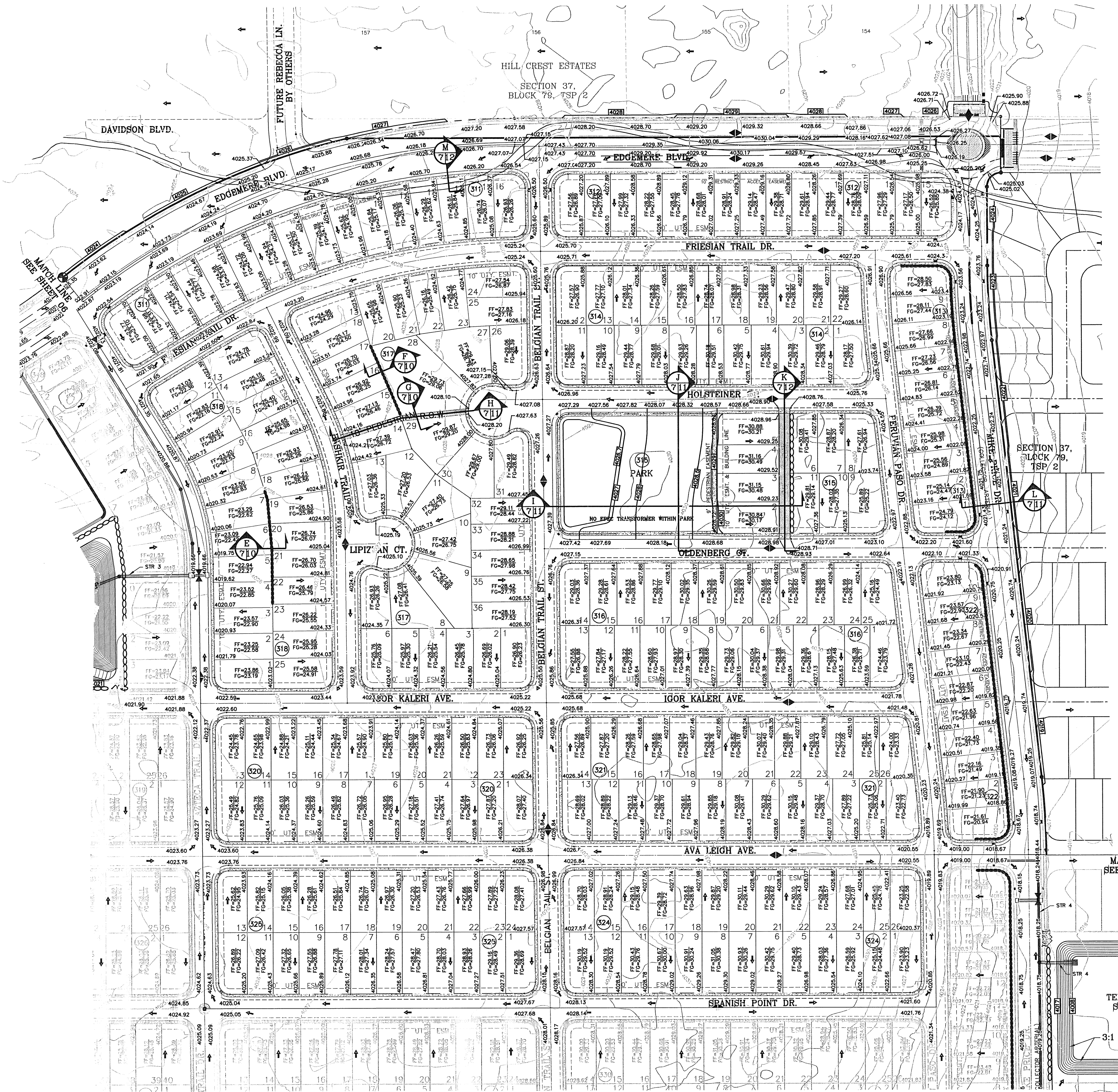
**SCALE**  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: EFG/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18



**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286



**SHEET TITLE**  
**STREET**  
**PLAN-PROFILE**  
**SMOKEY POINT DR.**  
 STA. 7+00 TO 9+62.54



DETAIL No. 314  
SECTION DETAIL SHEET  
SECTION REFERENCE SHEET

**NOTE:**  
HEREON DESCRIBED TRACT LIES IN ZONE X. COMMUNITY PANEL NO. 480212 0175B. DATED SEPTEMBER 4, 1991.

SCALE: 1" = 100'

- NOTES:**
1. POND DESIGN, SIDE SLOPES, BENCHING, & DRAINAGE CALCULATIONS SHALL CONFORM TO REQUIREMENTS OF "DRAINAGE DESIGN MANUAL", "DESIGN STANDARDS FOR CONSTRUCTION" AND "AMEND GRADING ORDINANCE"
  2. SEE SHEET 91 AND 92 OF 112 FOR DRAINAGE STRUCTURES.
  3. DEVELOPER IS RESPONSIBLE FOR MAINTENANCE OF ALL OFF-SITE DRAINAGE STRUCTURES.
  4. ANY UTILITIES PLACED WITHIN PARK SITE(S) SHALL BE AT MINIMUM OF FIVE FEET DEEP. WHERE POSSIBLE AND PREFERABLY, UTILITIES SHALL BE PLACED UNDERNEATH THE PROPOSED 7' WIDE SIDEWALK TO AVOID FUTURE CONFLICT WITH THE PROPOSED STREET TREE LINE OR DAMAGE TO THE UTILITIES.

**LEGEND**

FF=00.67	PROPOSED FINISH FLOOR
FG=00.00	PROPOSED FINISH GROUND
00.00	PROPOSED SPOT ELEVATION
▲	HIGH POINT
▼	LOW POINT
4000	EXISTING CONTOUR
4000	EXISTING SPOT ELEVATION
4000	PROPOSED CONTOUR
4000	FUTURE CONTOUR
⊖	PROPOSED ROCK WALL
⊖	PROPOSED RETAINING WALL

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47	NAVD88 DATUM
DATE 10/3/11	REVISIONS AS PER 8/24/11 REDLINES O.M.
BY 11/1/11	REVISIONS AS PER 10/19/11 REDLINES O.M.

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, RANGE 10, EAST OF THE 10TH MERIDIAN, COUNTY OF EL PASO, TEXAS  
CONTAINING: 166,284+ ACRES

SCALE  
HORIZ: 1" = 100'  
VERT: ---

DATE: MAY 2012  
DESIGN BY: MZ  
INITIATED BY: BPOCM  
CHECKED BY: YC  
JOB NO.: 1110-18

ENGINEER'S SEAL

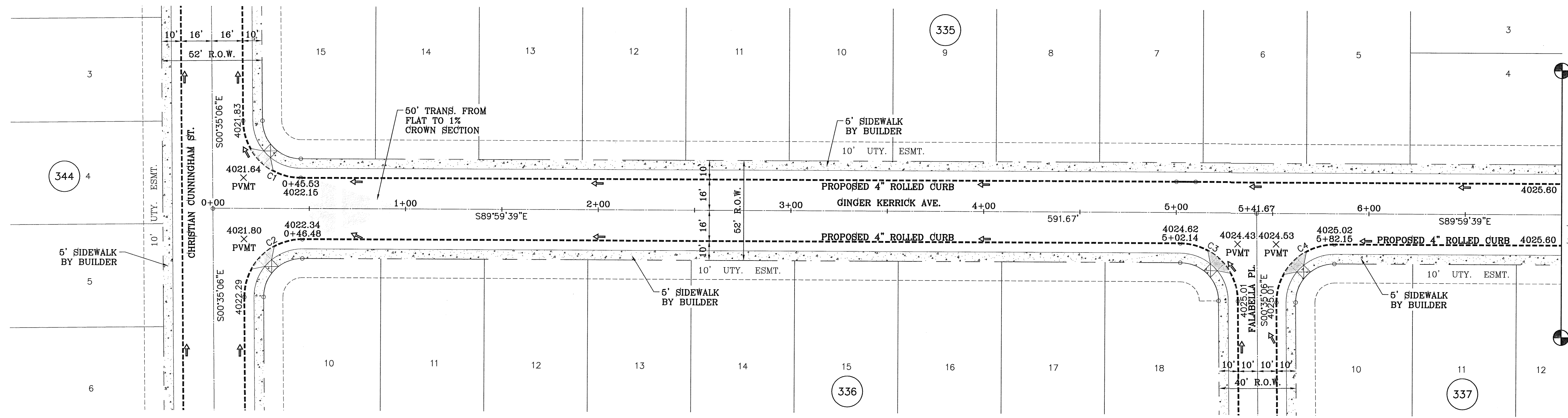
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0263  
FAX: (915) 592-0286

REGISTRATION NO. 2321

SHEET TITLE  
**GRADING PLAN**

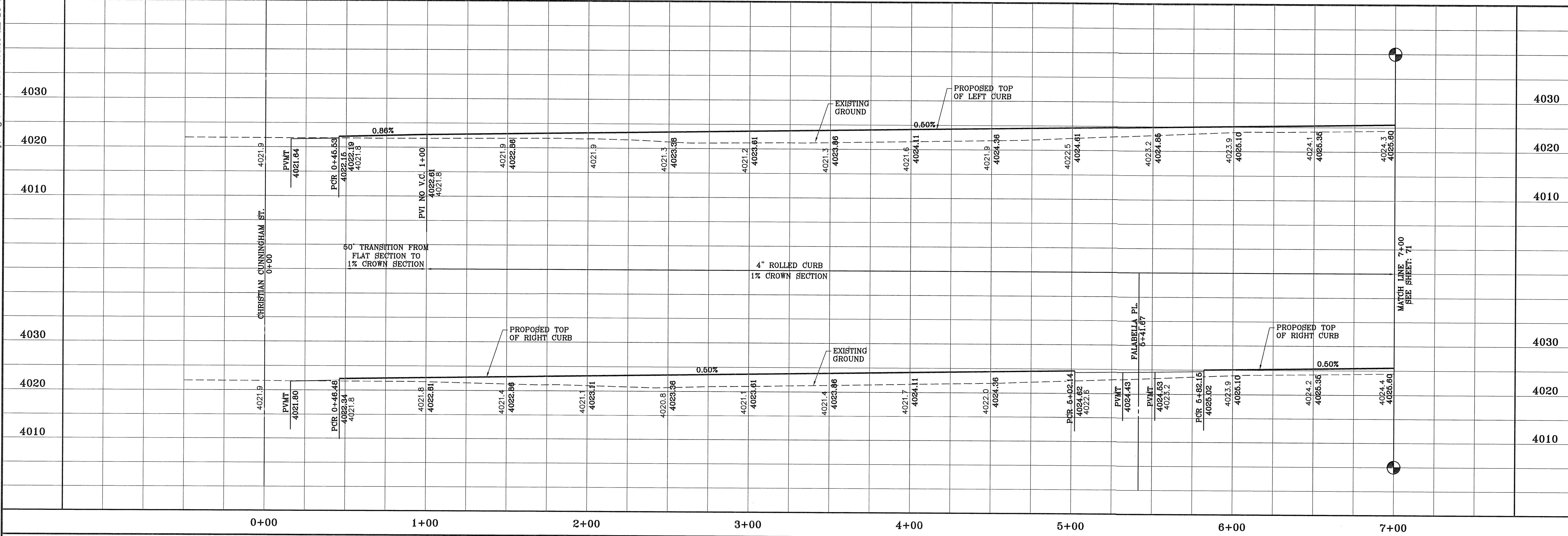
SHT 07 OF 112

FILE LOCATION S:\Subdivisions\TDE 67\DWG\YDE67-PP16-GINGER KERRICK PLOTTED ON Thursday, August 23, 2012 9:08:53 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C2	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C3	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C4	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47
DATE	10/3/11
BY	O.M.
REVISIONS	REVISIONS AS PER 8/24/11 REDLINES
DATE	11/1/11
BY	O.M.
REVISIONS	REVISIONS AS PER 10/19/11 REDLINES

**PROJECT NAME**  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

**SCALE**  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'

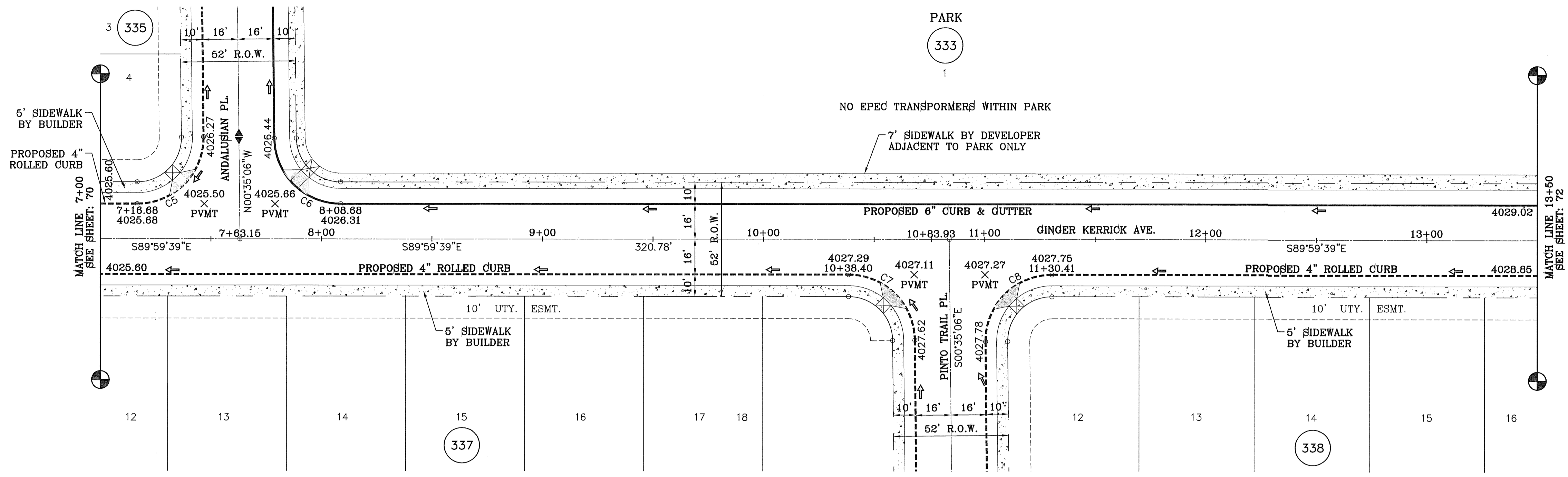
DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: BFG/DM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

**ENGINEER'S SEAL**

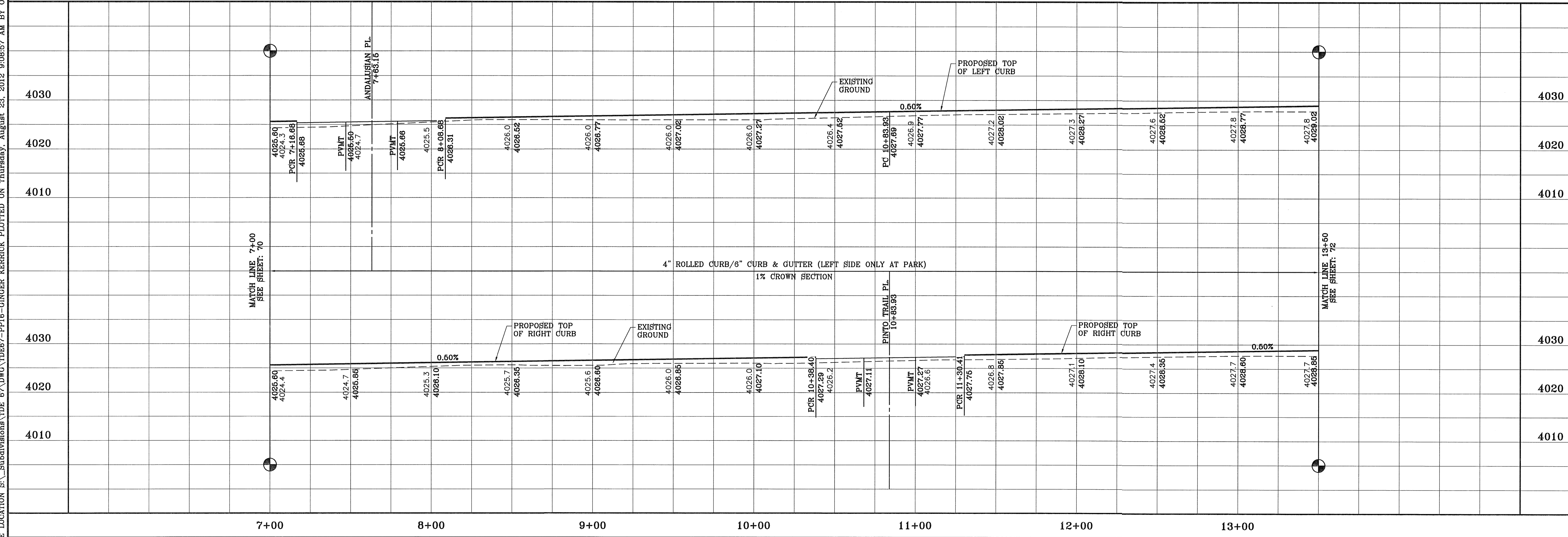
**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79805  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**SHEET TITLE**  
 STREET  
**GINGER KERRICK AVE.**  
 STA. 0+00 TO 7+00

FILE LOCATION: S:\Subdivisions\TDE 67\DWG\TDB67-PP16-GINGER KERRICK PLOTTED ON Thursday, August 23, 2012 9:08:57 AM BY OSCAR MEDINA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C5	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C6	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C7	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C8	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE: 10/3/11 REVISIONS: REVISIONS AS PER 8/24/11 REDLINES O.M. 11/1/11 REVISIONS AS PER 10/19/11 REDLINES O.M.

PROJECT NAME: **TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY Co. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CITY CONTAINING: 166.254± ACRES

SCALE: 1" = 30'

SC A L E  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

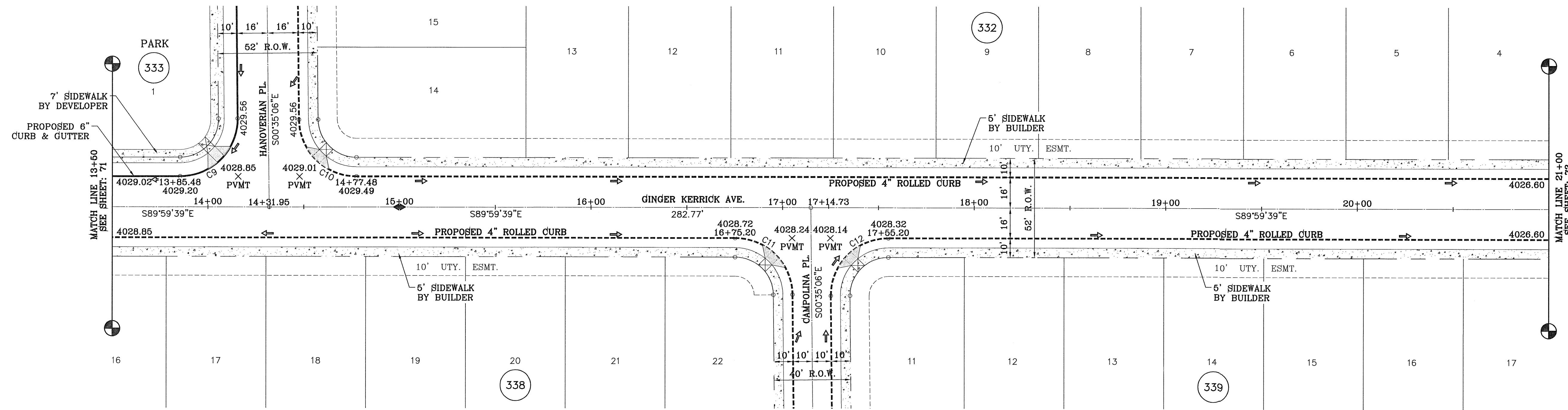
**CONDE INC.**  
ENGINEERING / PLANNING / SURVEYING / GPS  
6000 CURENRY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN-PROFILE**  
**GINGER KERRICK AVE.**  
STA. 7+00 TO 13+50

SHT 71 OF 112

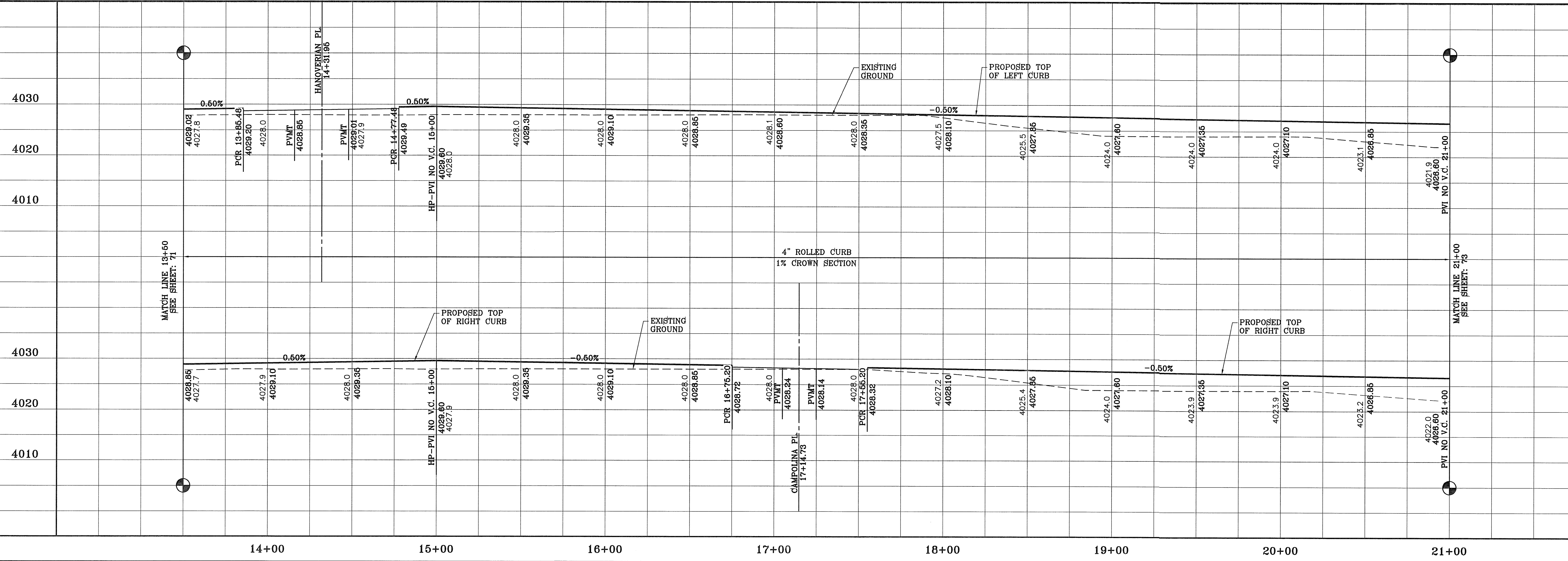


FILE LOCATION E:\Subdivisions\TDE 67.DWG\TDE67-PP16-GINGER KERRICK PLOTTED ON Thursday, August 23, 2012 9:09:03 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C9	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C10	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C11	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C12	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF  
GINGER KERRICK AVE. AND SPANISH POINT  
ELEVATION 4017.47

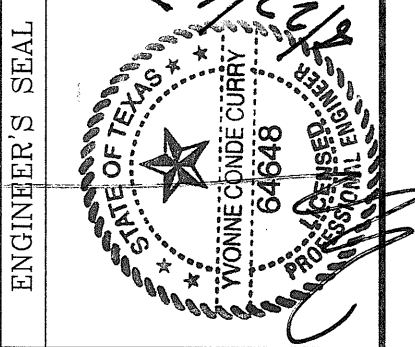
DATE	REVISIONS	BY
10/3/11	REVISIONS AS PER 8/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

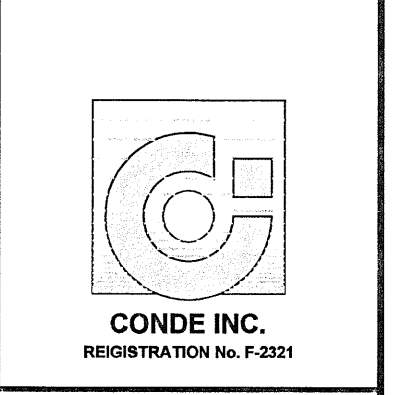
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2,  
RANGE 10 NORTH, RANGE 10 WEST, COUNTY TEXAS  
CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 166.254± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EPO/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

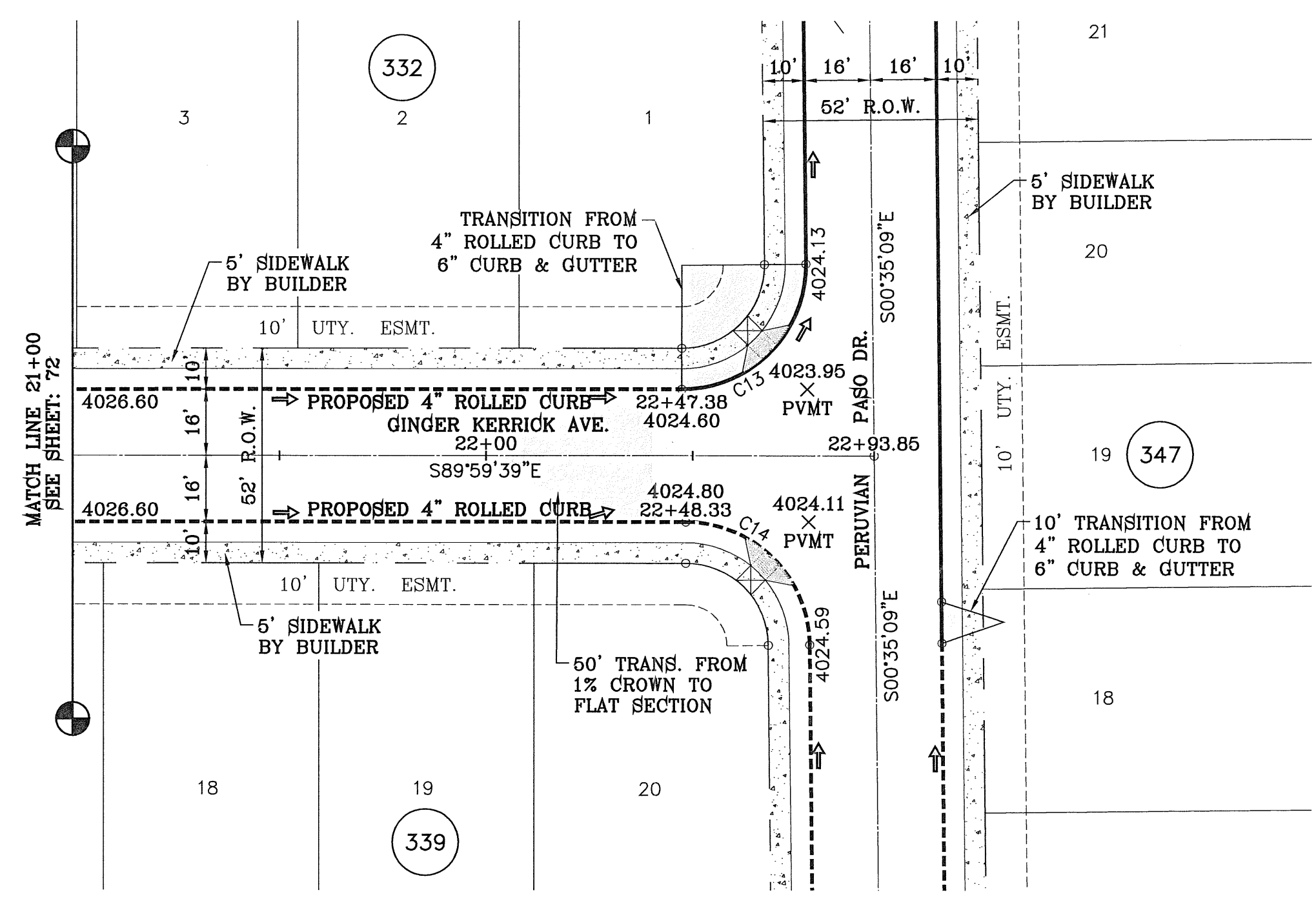


**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79906  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



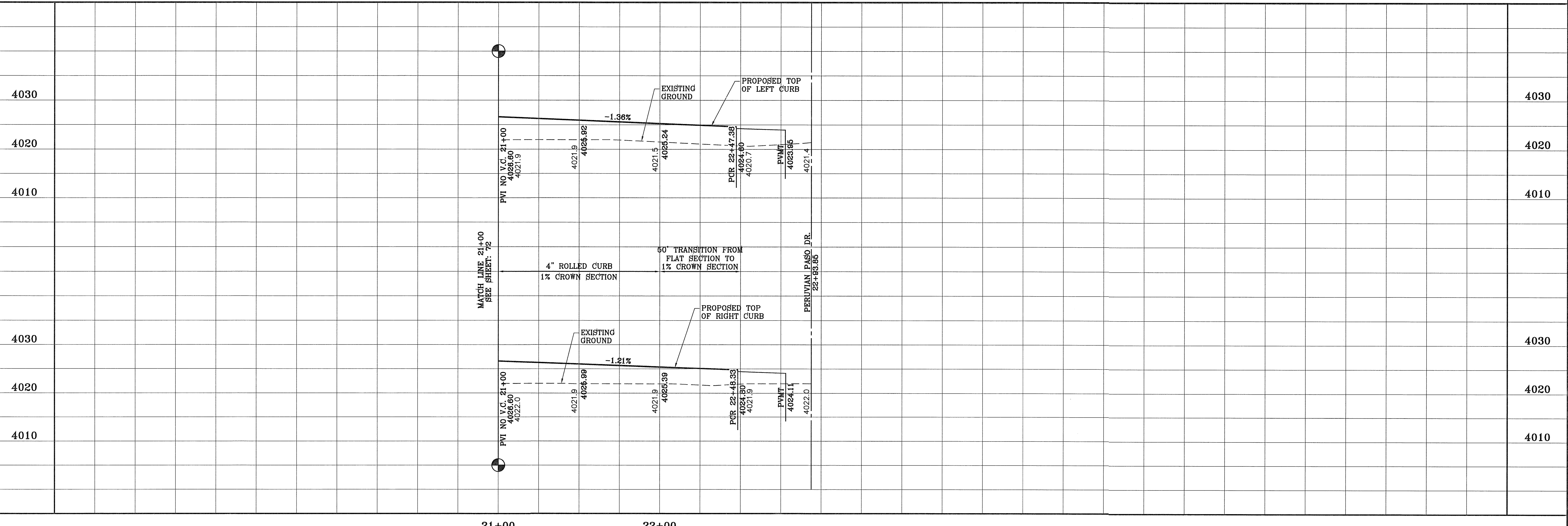
SHEET TITLE  
**GINGER KERRICK AVE. STA. 13+50 TO 21+00**

FILE LOCATION S:\Subdivisions\TDE 87\DWG\TDE87-PP16-GINGER KERRICK PLOTTED ON Thursday, August 23, 2012 9:09:07 AM BY OSCAR MEDINA



SCALE: 1" = 30'

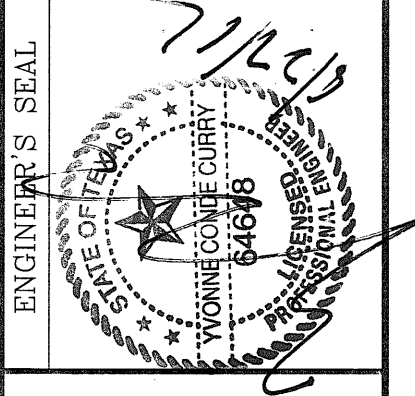
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C13	30.00'	47.43'	30.31'	42.64'	N44°42'36"E	90°35'30"
C14	30.00'	46.81'	29.69'	42.21'	N45°17'24"W	89°24'30"



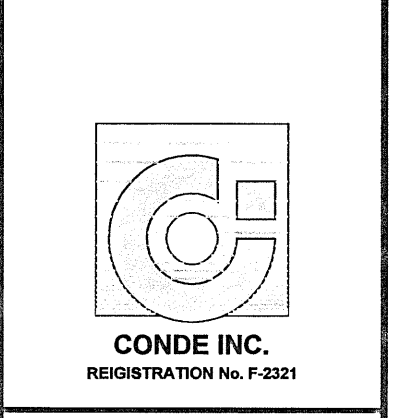
BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47
DATE	REVISIONS
10/9/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES

**PROJECT NAME**  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC HALLWAY CO. SURVEYS, CITY OF PASO, BL 166.294± ACRES CONTAINING: 166.294± ACRES

**SCALE**  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: EPJ/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

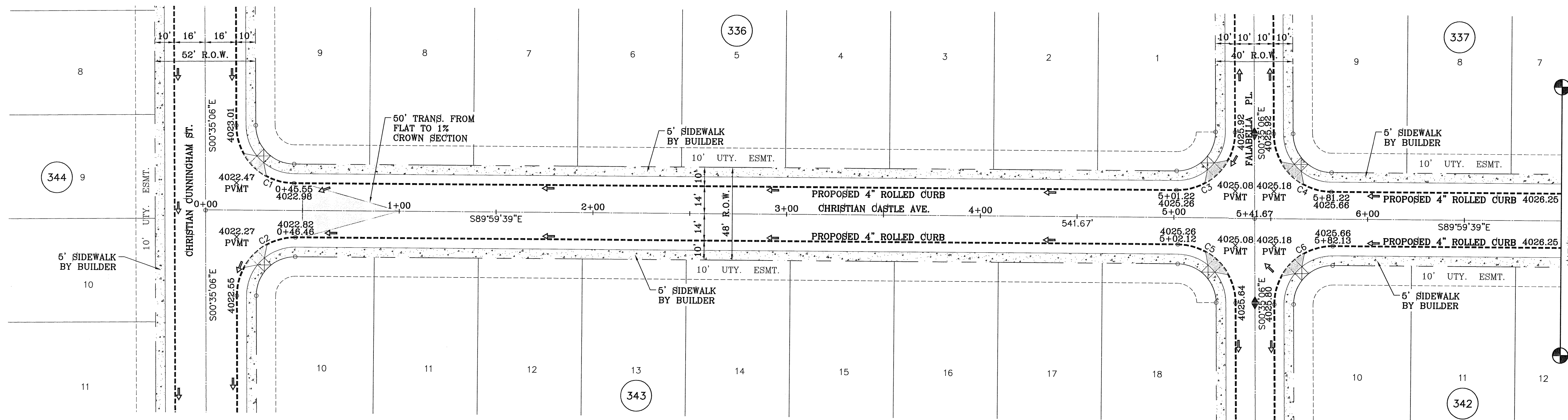


**CONDE INC.**  
 ENGINEERING / PLANNING SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0285  
 FAX: (915) 592-0286



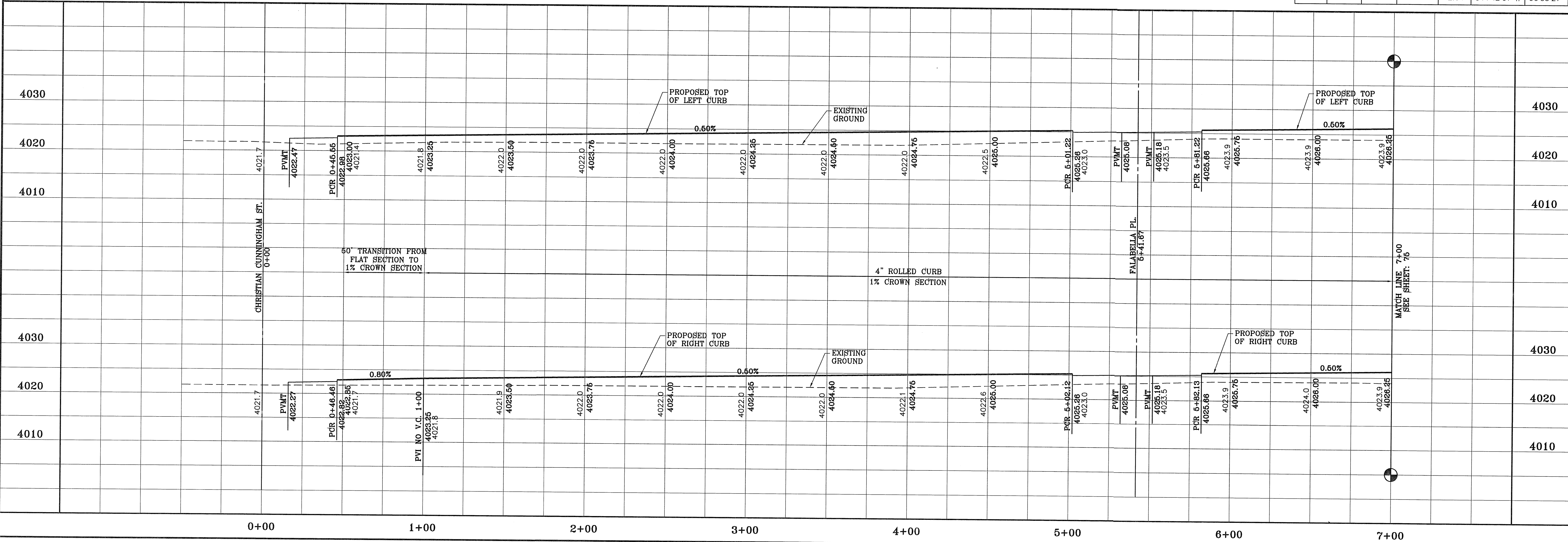
**SHEET TITLE**  
 STREET PLAN-PROFILE  
**GINGER KERRICK AVE.**  
 STA. 21+00 TO 22+93.85

FILE LOCATION S:\\_Subdivisions\TDE 67\DWG\TDE67-PP17-CHRISTIAN CASTLE PLOTTED ON Thursday, August 23, 2012 9:09:27 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C2	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C3	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C4	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C5	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C6	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47
DATE	REVISIONS
10/3/11	REVISIONS AS PER 9/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
	O.M.
	O.M.

**PROJECT NAME**  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PART OF EASEMENT 59, COUNTY OF TEXAS, CONTAINING: 166.60± ACRES

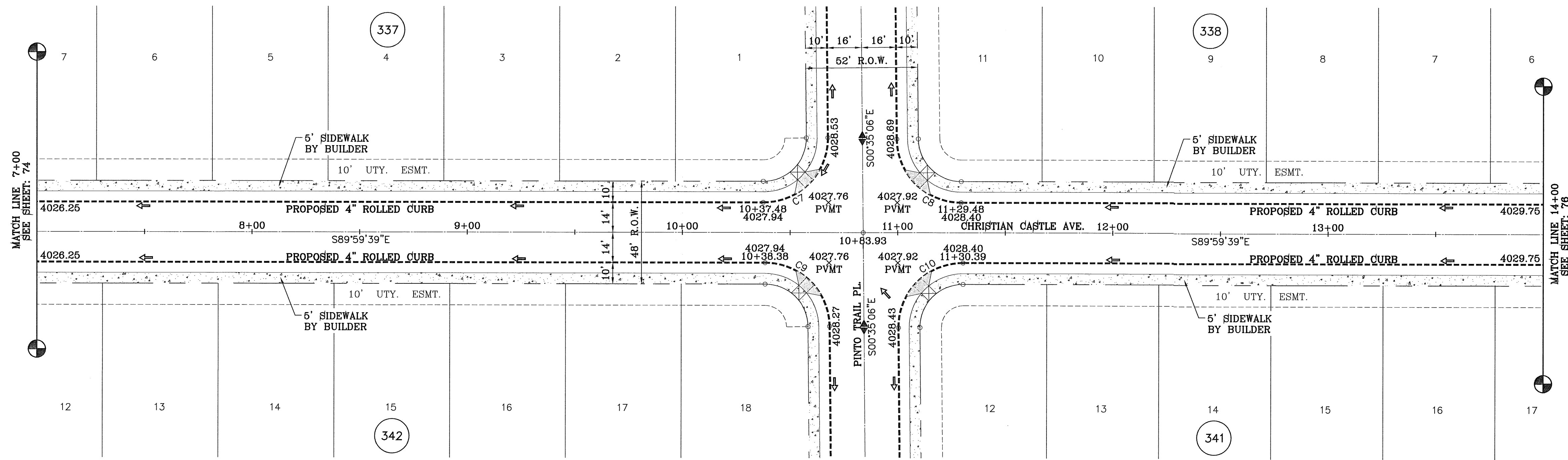
**SCALE**  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: EFG/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

**ENGINEER'S SEAL**

**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

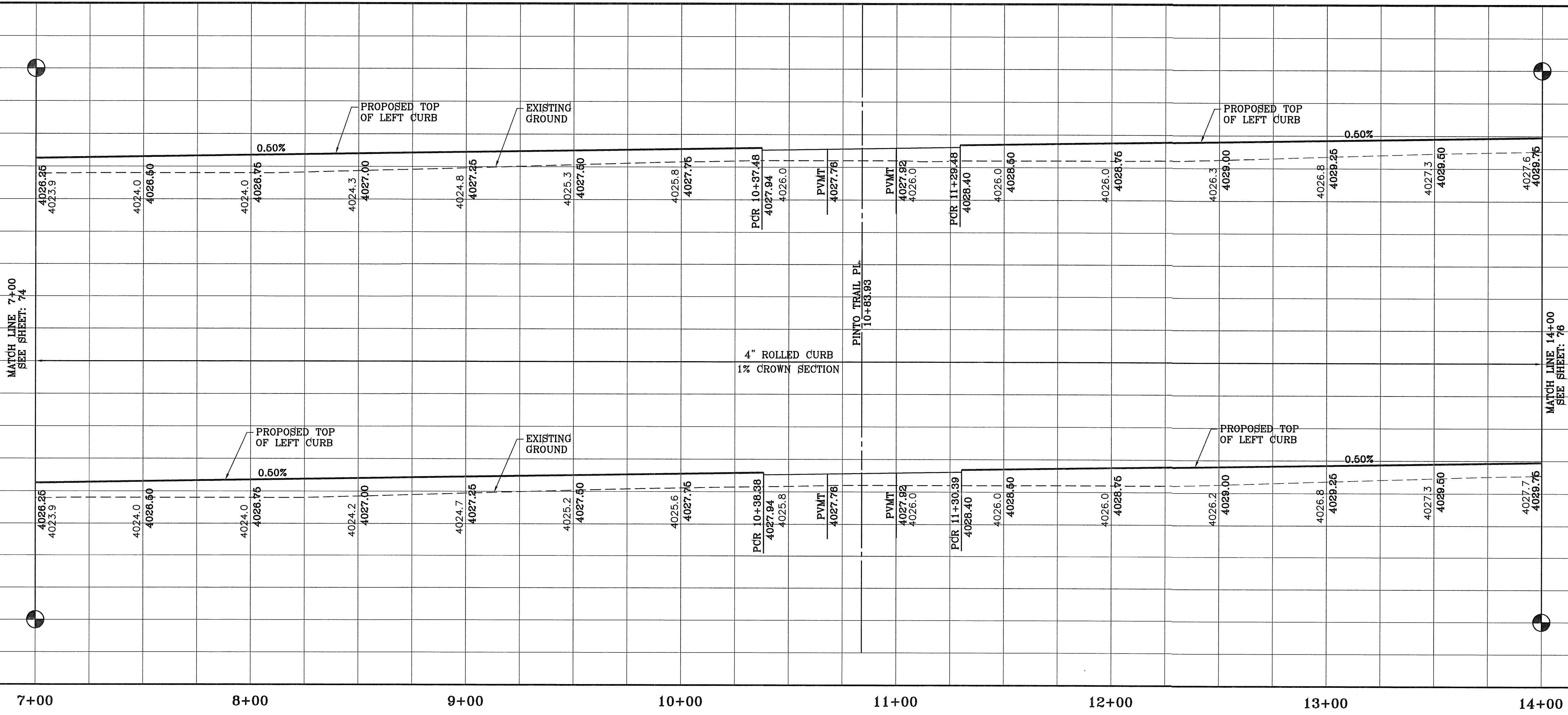
**SHEET TITLE**  
 STREET PLAN-PROFILE  
**CHRISTIAN CASTLE AVE.**  
 STA. 0+00 TO 7+00

FILE LOCATION: E:\Subdivisions\TDE 67.DWG\TDE67-PP17-CHRISTIAN CASTLE PLOTTED ON Thursday, August 23, 2012 9:09:33 AM BY OSCAR MEDINA



SCALE: 1" = 30'

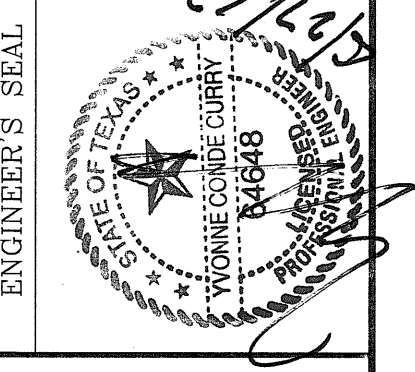
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C7	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C8	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C9	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C10	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47
DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
	BY
	O.M.
	O.M.

**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS  
 CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 166.254± ACRES

SCALE  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: BFO/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

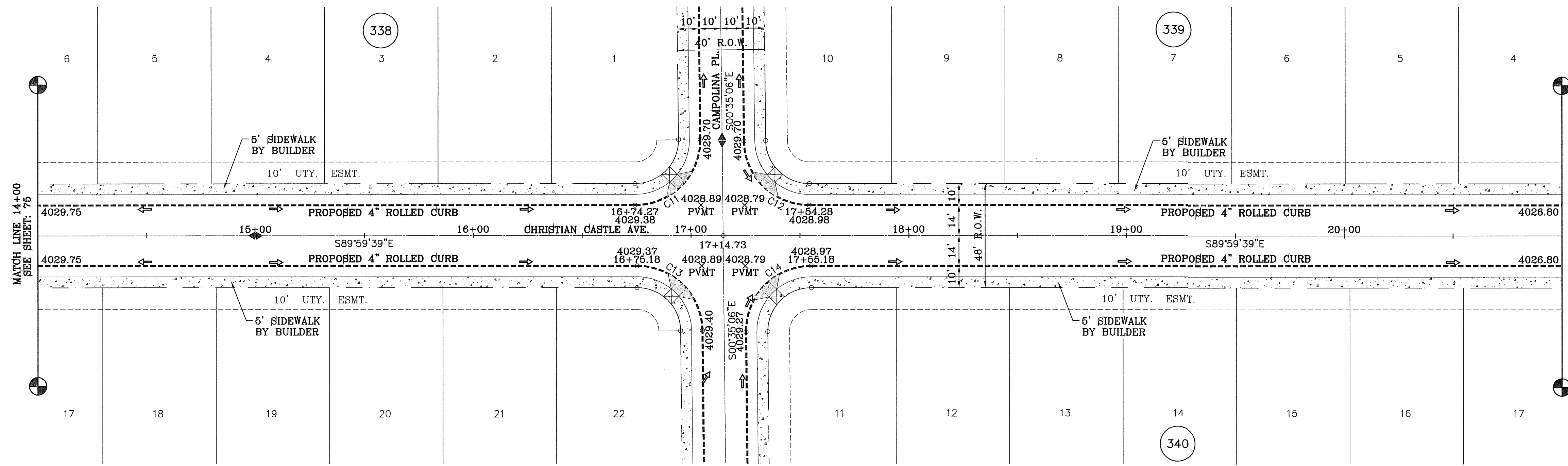


**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

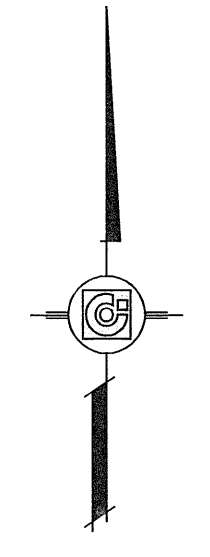


SHEET TITLE  
**STREET PLAN-PROFILE**  
**CHRISTIAN CASTLE AVE.**  
 STA. 7+00 TO 14+00

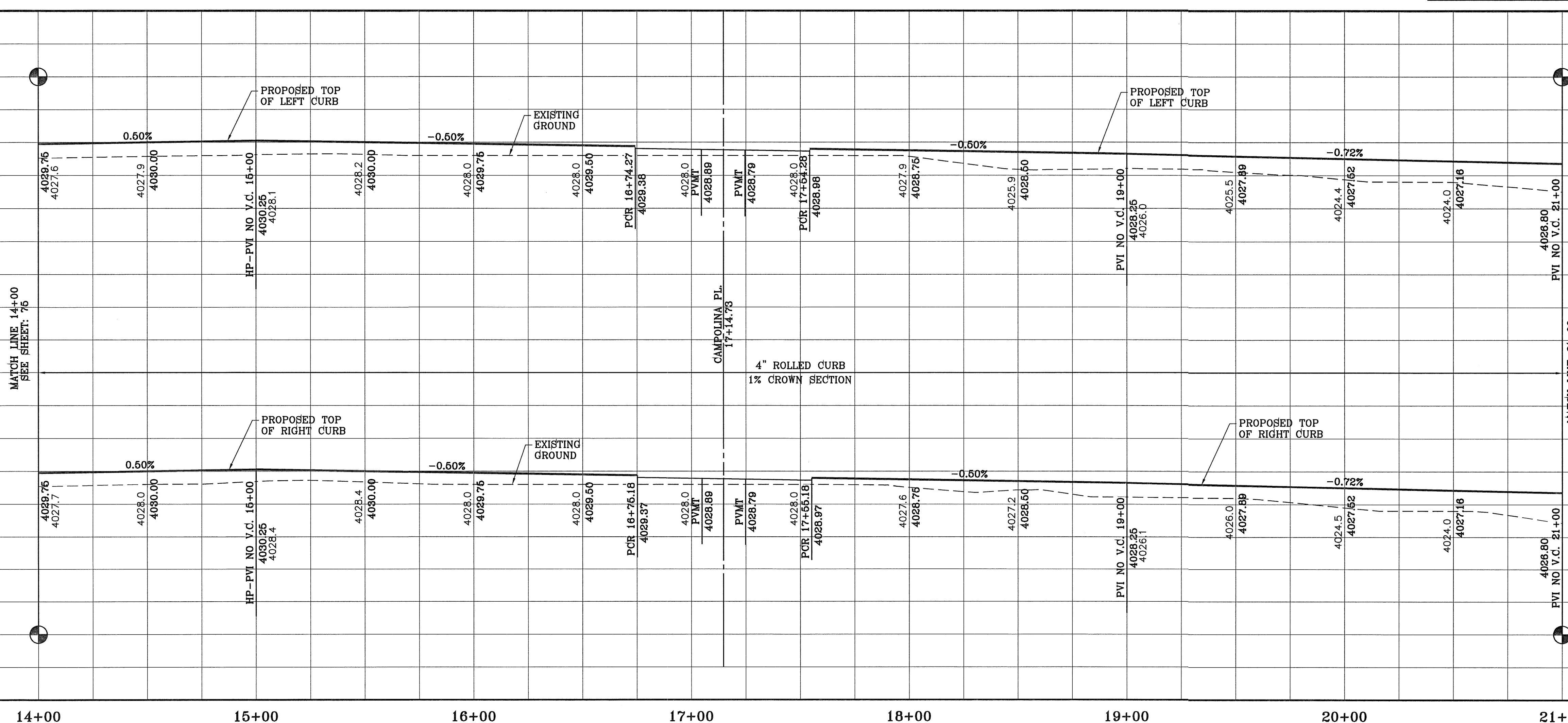
FILE LOCATION E:\Subdivisions\TDE 67\DWG\TDE67-PP17-CHRISTIAN CASTLE PLOTTED ON Thursday, August 23, 2012 9:08:37 AM BY OSCAR MEDINA



SCALE: 1" = 30'



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C11	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C12	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C13	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C14	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47
DATE	REVISIONS
10/9/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
	O.M.
	O.M.

**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY Co. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

ENGINEER'S SEAL

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012

DESIGN BY: YC

INITIATED BY: EFG/OM

CHECKED BY: YC

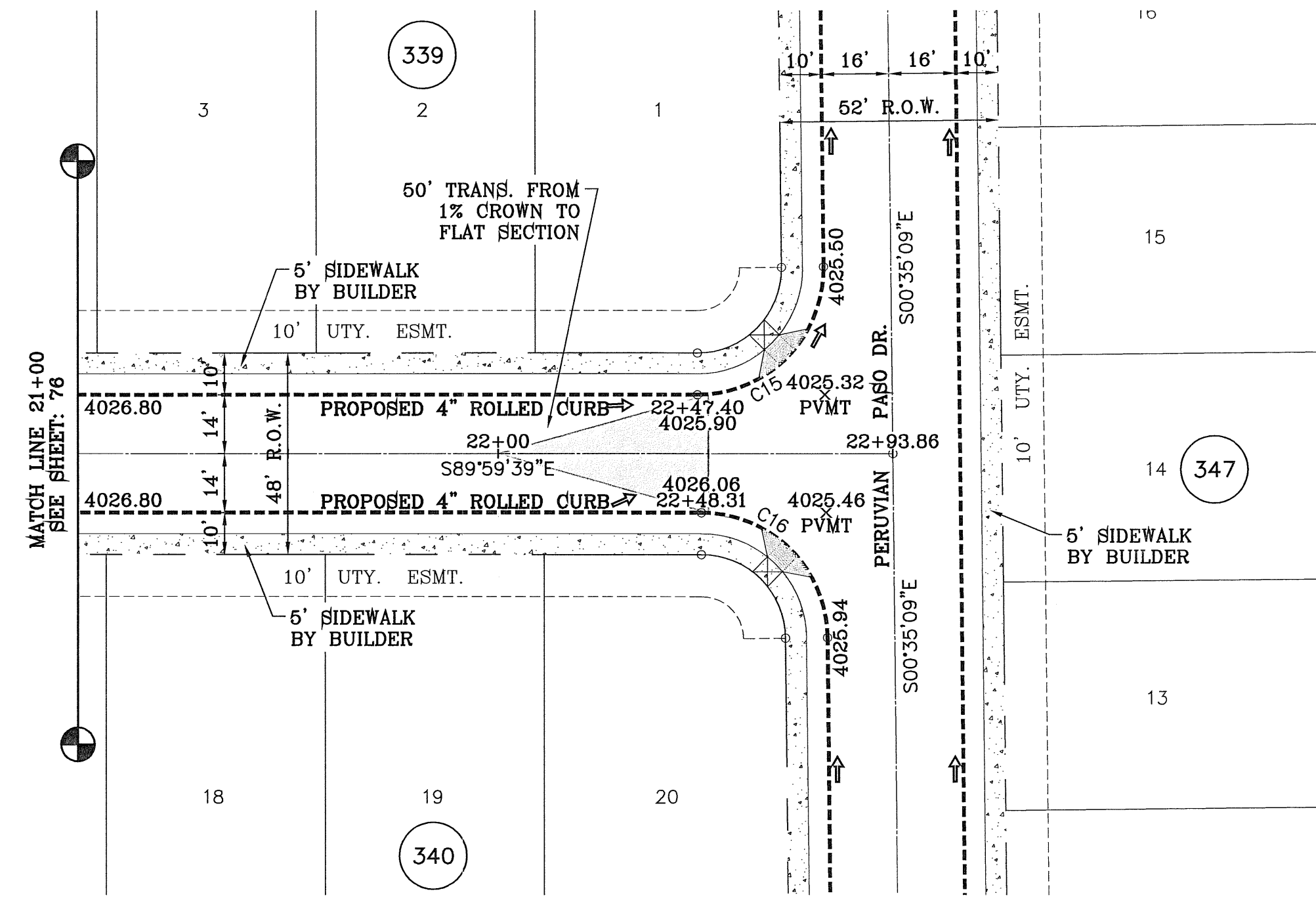
JOB NO.: 1110-18

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURVEY DR. STE. 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

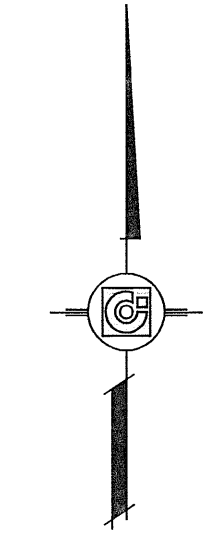


SHEET TITLE  
**STREET PLAN - PROFILE**  
**CHRISTIAN CASTLE AVE.**  
STA. 14+00 TO 21+00

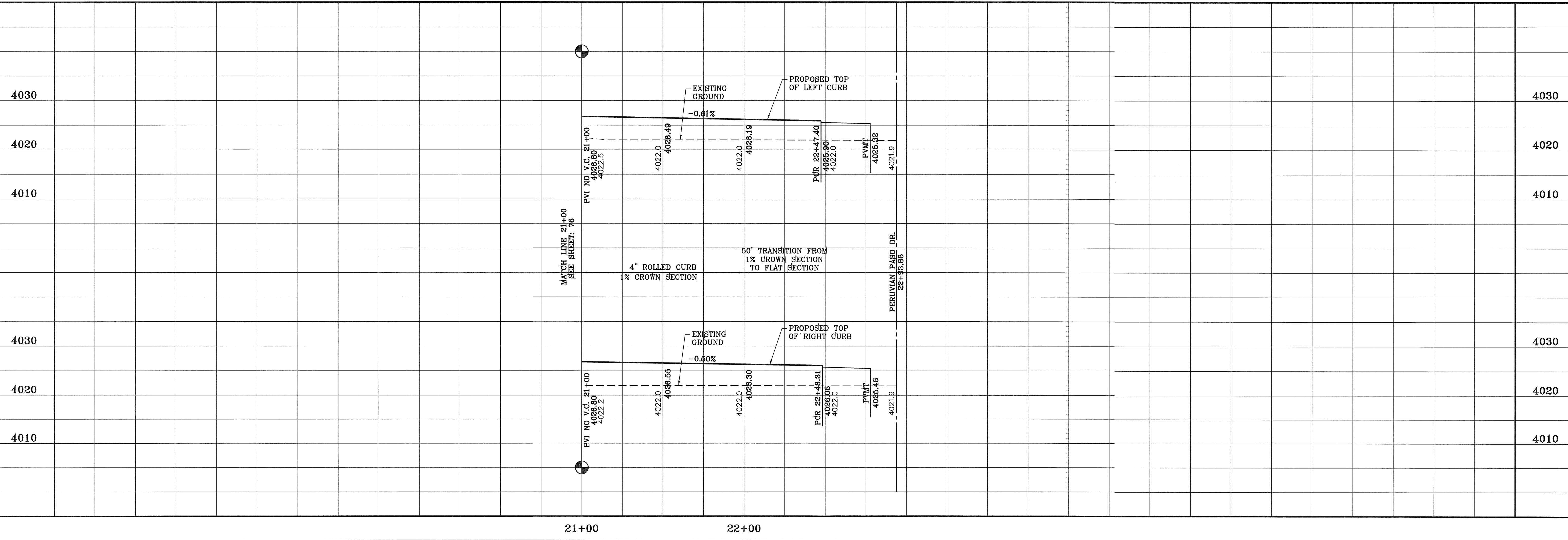
FILE LOCATION S:\Subdivisions\IDE 67\DWG\IDE67-PPI7-CHRISTIAN CASTLE PLOTTED ON Thursday, August 23, 2012 9:09:43 AM BY OSCAR MEDINA



SCALE: 1" = 30'



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C15	30.00'	47.43'	30.31'	42.64'	N44°42'36"E	90°35'30"
C16	30.00'	46.81'	29.69'	42.21'	N45°17'24"W	89°24'30"



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT	.....NAVD88 DATUM
ELEVATION 407.47	
DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
	O.M.
	O.M.

PROJECT NAME  
**Tierra del Este Unit Sixty Seven**  
 BEING PORTION OF SECTION 97, BLOCK 76, TOWNSHIP 2, RANGE 10N, RANGE 10E, COUNTY OF PASO COUNTY, TEXAS  
 CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 166.264± ACRES

ENGINEER'S SEAL  
 STATE OF TEXAS  
 ENGINEER  
 WYANNE CURRY  
 84618  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 EXPIRES 08/31/2015

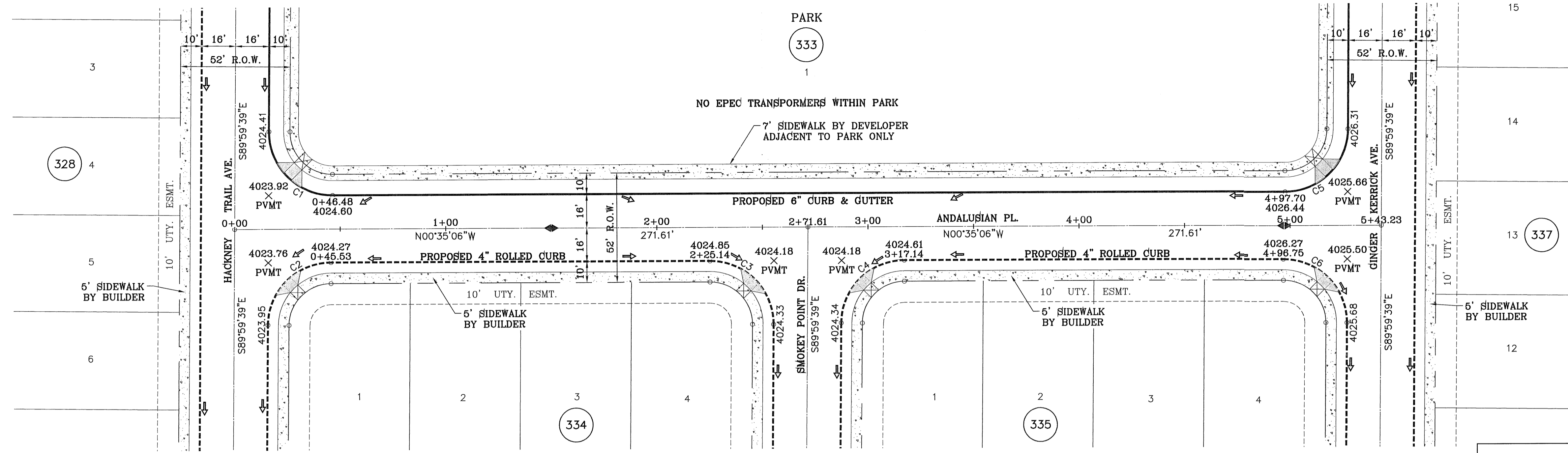
SCALE  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: ERO/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

CONDE INC.  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

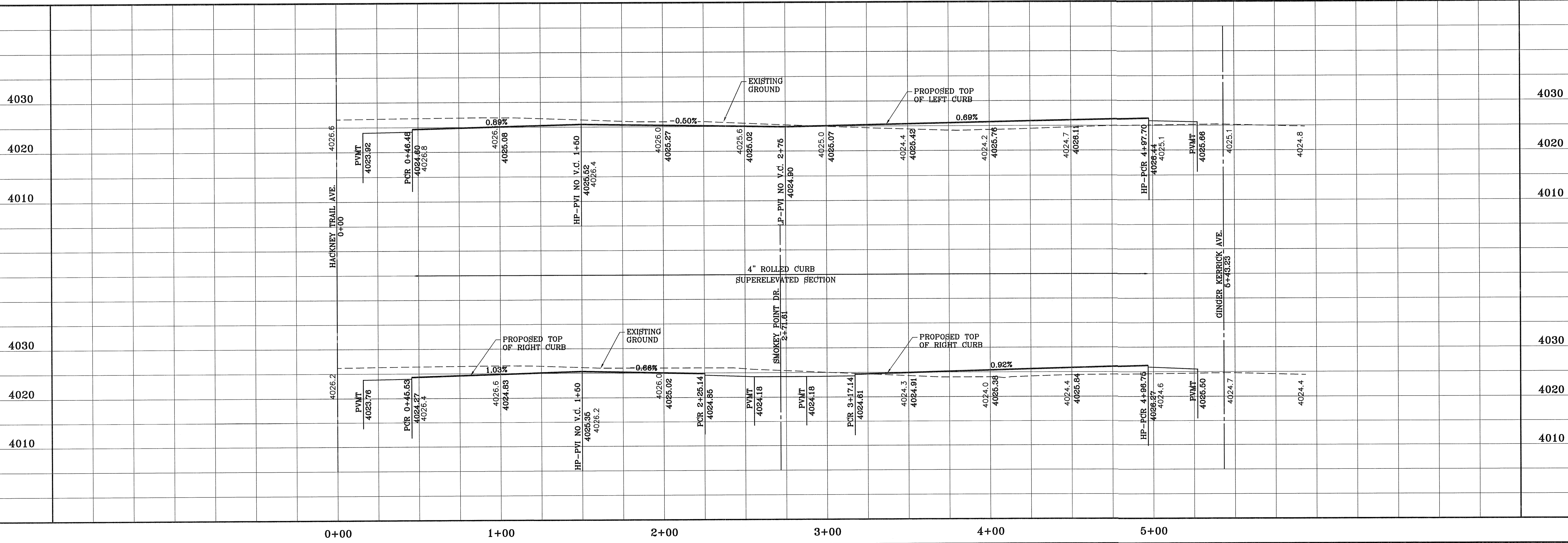
SHEET TITLE  
**STREET PLAN - PROFILE**  
**CHRISTIAN CASTLE AVE.**  
 STA. 21+00 TO 22+93.86

SHT 77 OF 112

FILE LOCATION: s:\\_subdivisions\TDE 67\DWG\TDE67-PP18-ANDALUSIAN PL. PLOTTED ON Thursday, August 23, 2012 9:10:00 AM BY OSCAR MEDINA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C2	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C3	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C4	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C5	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C6	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"



**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 78, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

PROJECT NAME: **TERRA DEL ESTE UNIT SIXTY SEVEN**

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47'

DATE: 10/3/11  
REVISIONS AS PER 8/24/11 REDLINES  
BY: O.M.

DATE: 11/1/11  
REVISIONS AS PER 10/19/11 REDLINES  
BY: O.M.

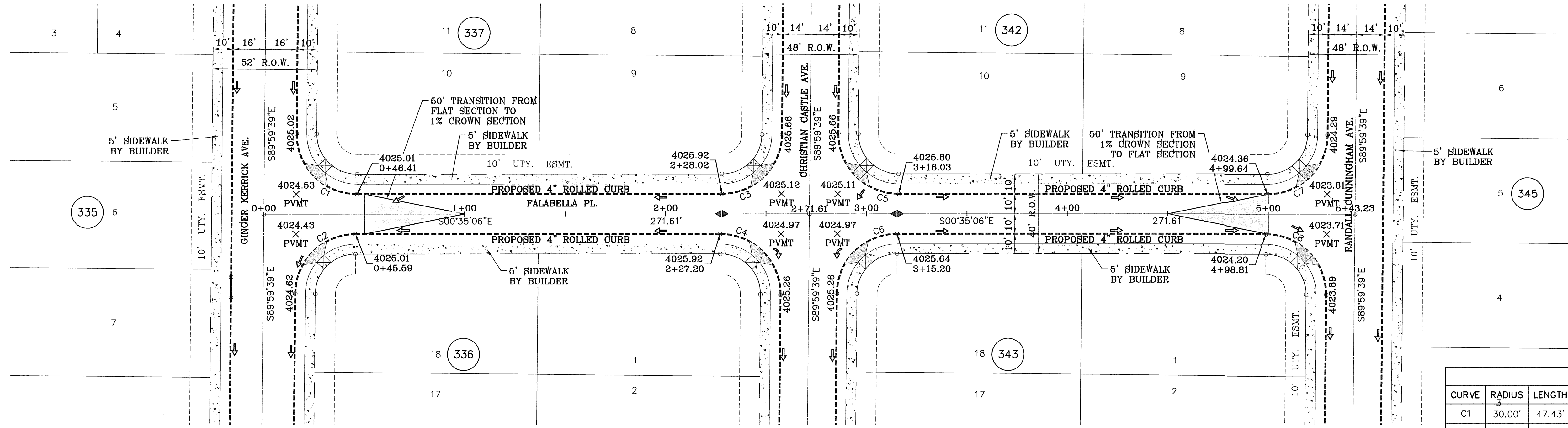
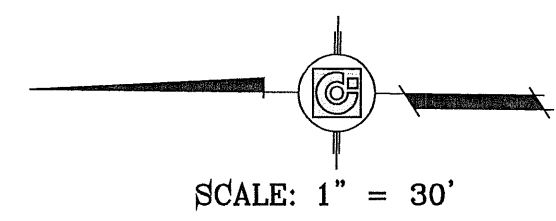
S C A L E  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: BFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURRETT DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN - PROFILE**  
**ANDALUSIAN PL.**  
STA. 0+00 TO 5+43.23

SHT 78 OF 112



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C2	30.00'	46.81'	29.69'	42.21'	N45°17'23"E	89°24'33"
C3	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C4	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C5	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C6	30.00'	46.81'	29.69'	42.21'	N45°17'23"E	89°24'33"
C7	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C8	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"

BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT	ELEVATION 4017.47
DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES

**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, RANGE 10 NORTH, RANGE 6E, COUNTY OF EL PASO, TEXAS

CITY OF EL PASO, TEXAS

CONTAINING: 166.264± ACRES

SCALE

HORIZ: 1" = 30'

VERT: 1" = 10'

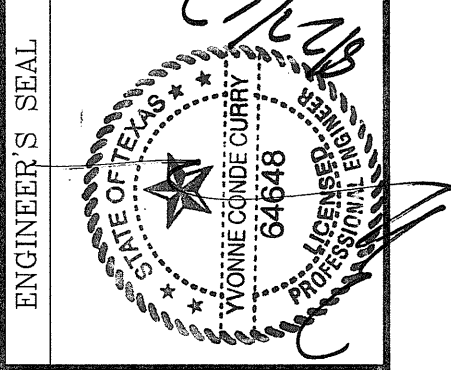
DATE: MAY 2012

DESIGN BY: YC

INITIATED BY: YC

CHECKED BY: YC

JOB NO.: 1110-18



**CONDE INC.**

ENGINEERING / PLANNING  
SURVEYING / GPS

6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



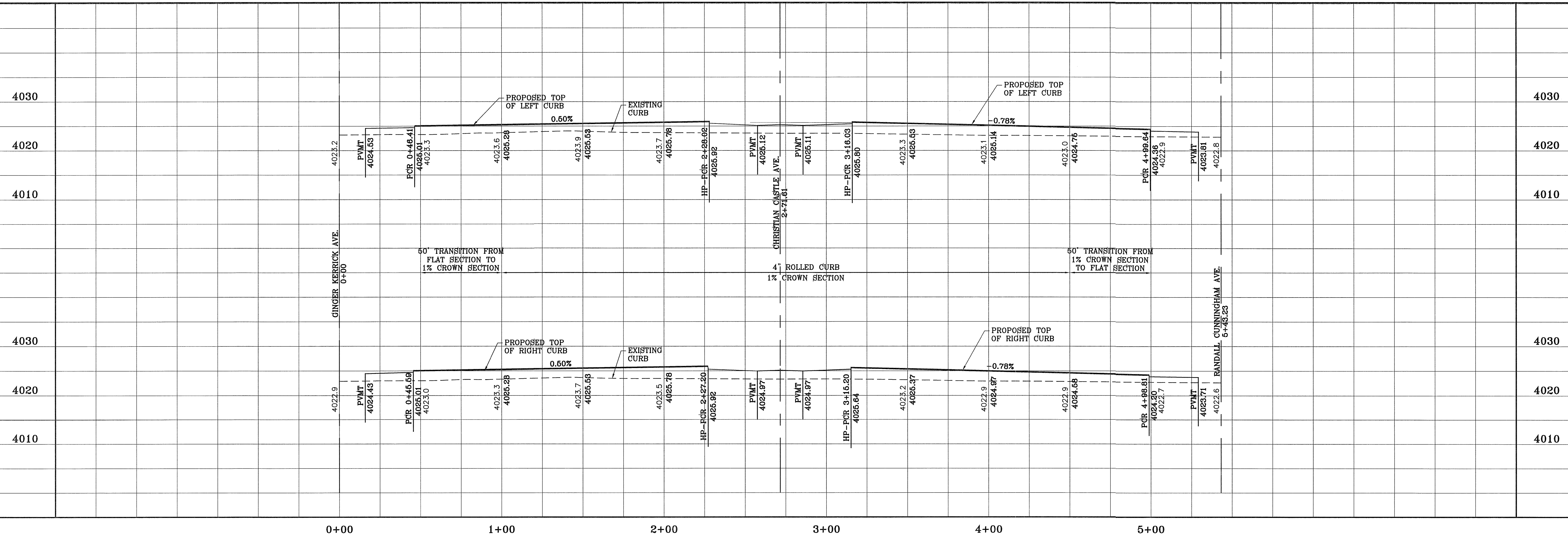
SHEET TITLE

STREET PLAN - PROFILE

**FALABELLA PL.**

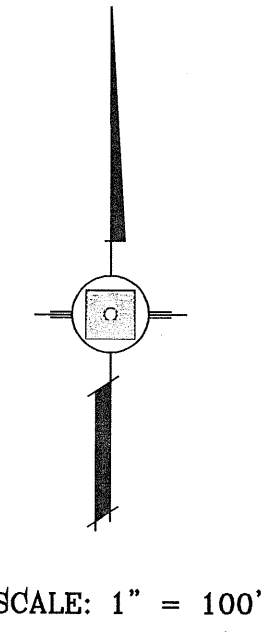
STA. 0+00 TO 5+43.23

FILE LOCATION S:\Subdivisions\TDE 67\DWG\TDE67-PP19-FALABELLA PL PLOTTED ON Thursday, August 23, 2012 9:10:21 AM BY OSCAR MEDINA





○ DENOTES AS BUILT CONDITION ONLY



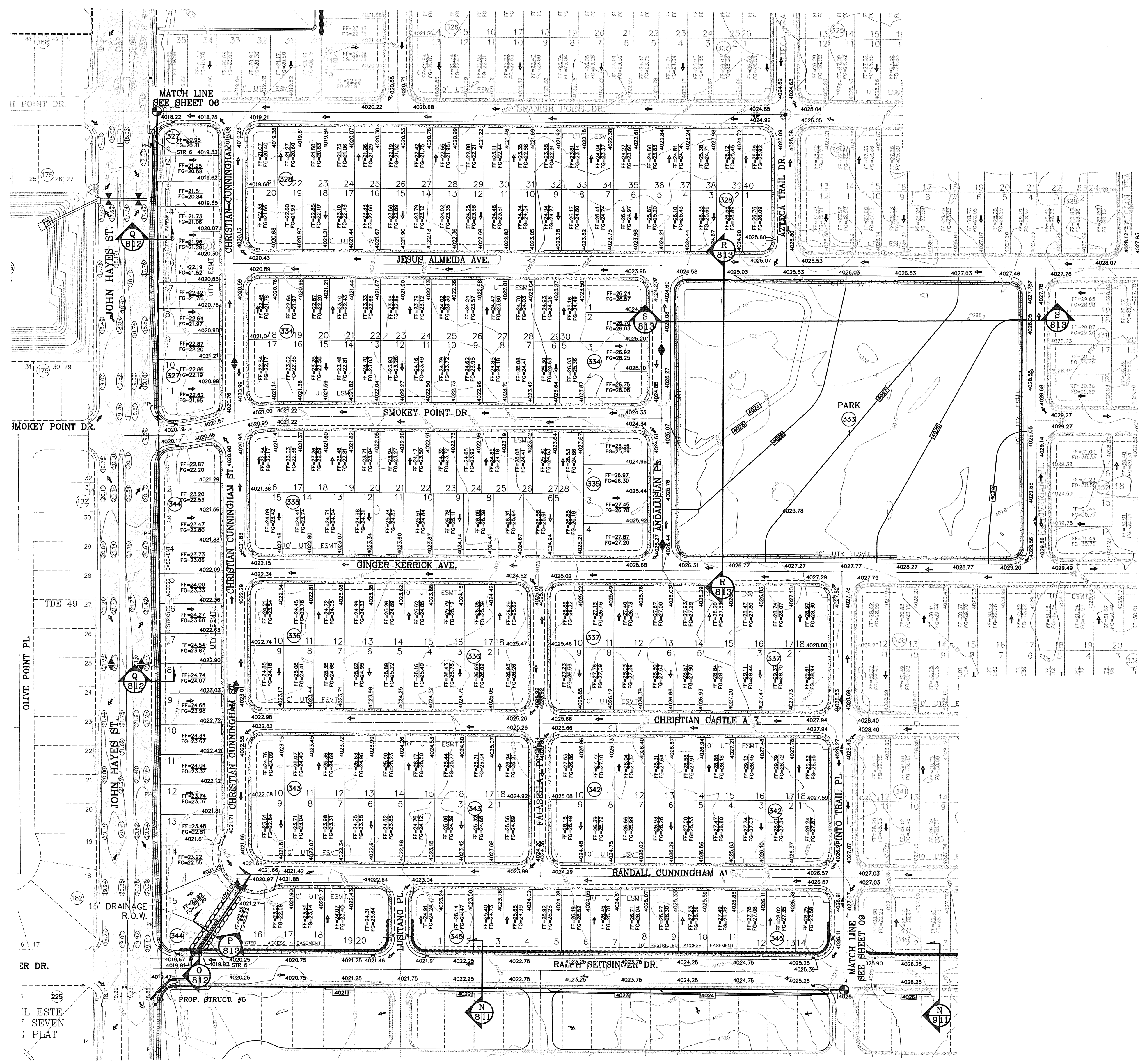
DETAIL No. SECTION DETAIL SHEET SECTION REFERENCE SHEET

**NOTE:**  
HEREON DESCRIBED TRACT LIES IN ZONE X, COMMUNITY PANEL NO. 480212 0175B, DATED SEPTEMBER 4, 1991.

**LEGEND**

FF=00.67	PROPOSED FINISH FLOOR
FG=00.00	PROPOSED FINISH GROUND
00.00	PROPOSED SPOT ELEVATION
▲	HIGH POINT
▼	LOW POINT
000	EXISTING CONTOUR
000	EXISTING SPOT ELEVATION
4000	PROPOSED CONTOUR
○	FUTURE CONTOUR
○	PROPOSED ROCK WALL
○	PROPOSED RETAINING WALL

- NOTES:**
1. POND DESIGN, SIDE SLOPES, BENCHING, & DRAINAGE CALCULATIONS SHALL CONFORM TO REQUIREMENTS OF "DRAINAGE DESIGN MANUAL", "DESIGN STANDARDS FOR CONSTRUCTION" AND "AMEND GRADING ORDINANCE"
  2. SEE SHEET 91 AND 92 OF 112 FOR DRAINAGE STRUCTURES.
  3. DEVELOPER IS RESPONSIBLE FOR MAINTENANCE OF ALL OFF-SITE DRAINAGE STRUCTURES.
  4. ANY UTILITIES PLACED WITHIN PARK SITE(S) SHALL BE AT MINIMUM OF FIVE FEET DEEP. WHERE POSSIBLE AND PREFERABLY, UTILITIES SHALL BE PLACED UNDERNEATH THE PROPOSED 7' WIDE SIDEWALK TO AVOID FUTURE CONFLICT WITH THE PROPOSED STREET TREE LINE OR DAMAGE TO THE UTILITIES.



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
	O.M.
	O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

SCA L E

HORIZ: 1" = 100'

VERT: ---

DATE: MAY 2012

DESIGN BY: ME

INITIATED BY: BROMOM

CHECKED BY: YC

JOB NO.: 1110-18

ENGINEER'S SEAL

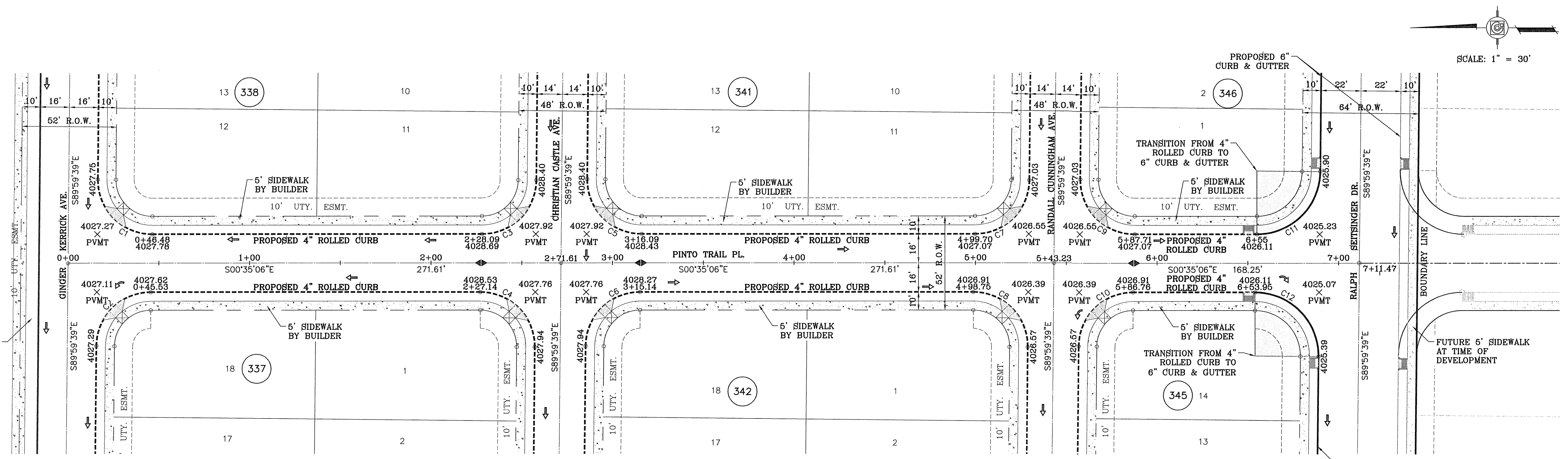
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. SITE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

**CONDE INC.**  
REGISTRATION No. F-2321

SHEET TITLE

**GRADING PLAN**

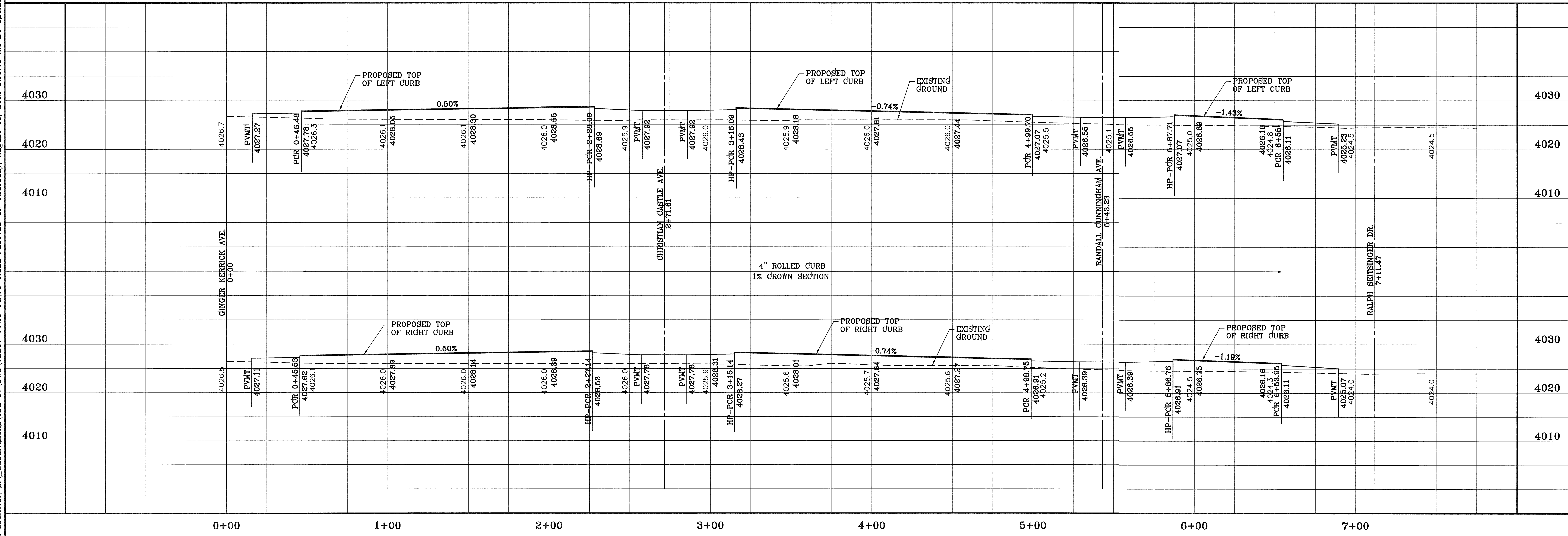
FILE LOCATION S:\Subdivisions\TDE 67\DWG\TDE67-PP20-PINTO TRAIL PLOTTED ON Thursday, August 23, 2012 9:10:40 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C2	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C3	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C4	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C5	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C6	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C7	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C8	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"
C9	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C10	30.00'	46.81'	29.69'	42.21'	N45°17'23"E	89°24'33"
C11	35.00'	54.62'	34.64'	49.24'	S45°17'23"E	89°24'33"
C12	35.00'	55.34'	35.36'	49.75'	N44°42'37"E	90°35'27"



**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 78, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF DALLAS, COUNTY OF DALLAS, TEXAS, CONTAINING 166.26± ACRES

PROJECT NAME: TIERRA DEL ESTE UNIT SIXTY SEVEN

BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE: 10/3/11  
REVISIONS AS PER 8/24/11 REDLINES  
DATE: 11/1/11  
REVISIONS AS PER 10/19/11 REDLINES

SCALE: 1" = 30'

HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: JC  
INITIATED BY: EPG/OM  
CHECKED BY: JC  
JOB NO.: 1110-18

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

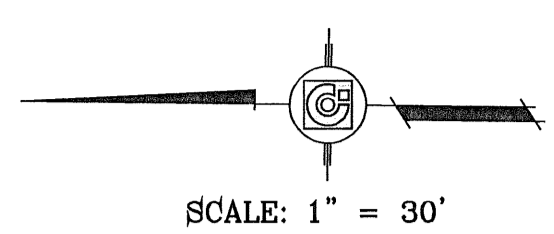
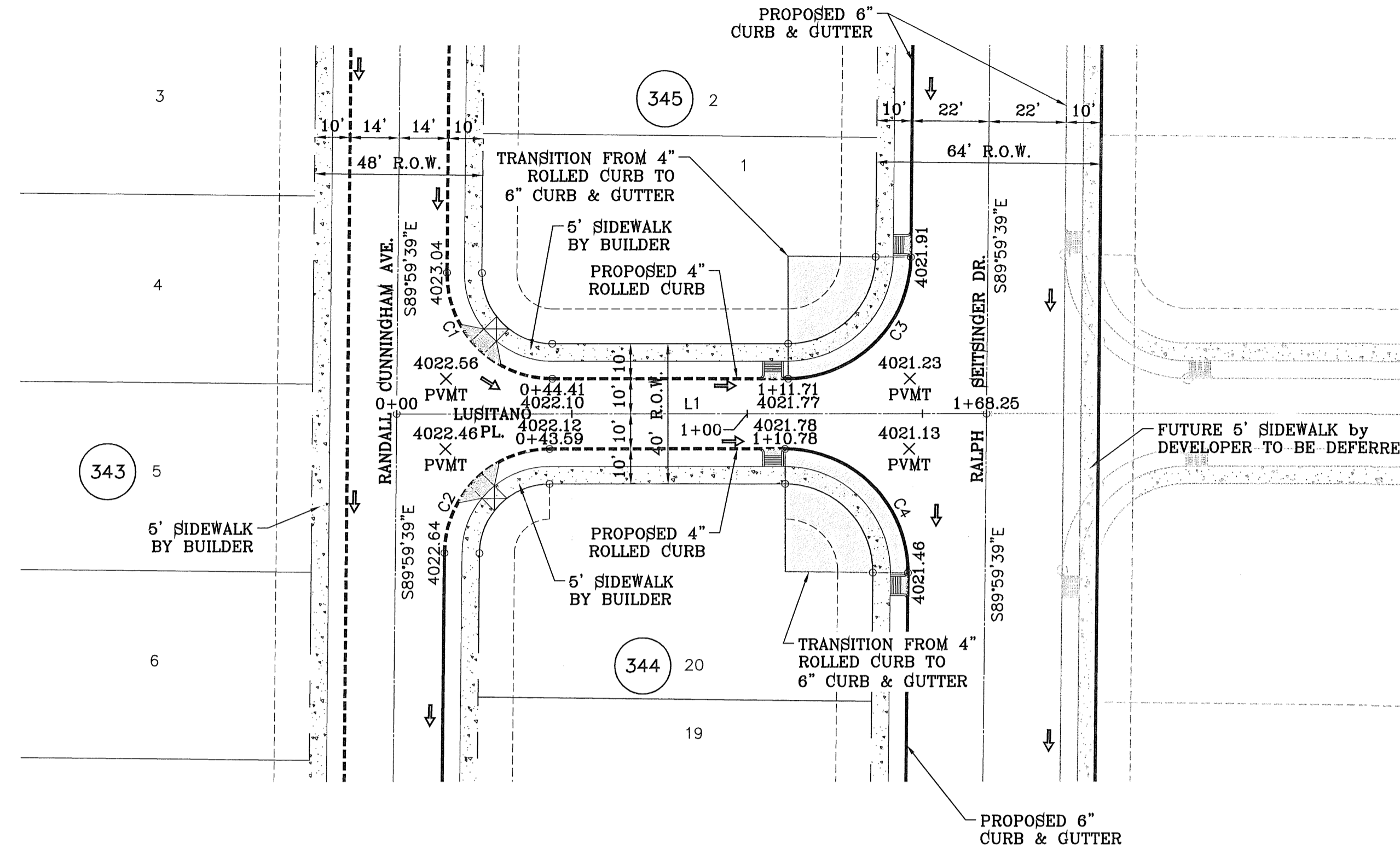
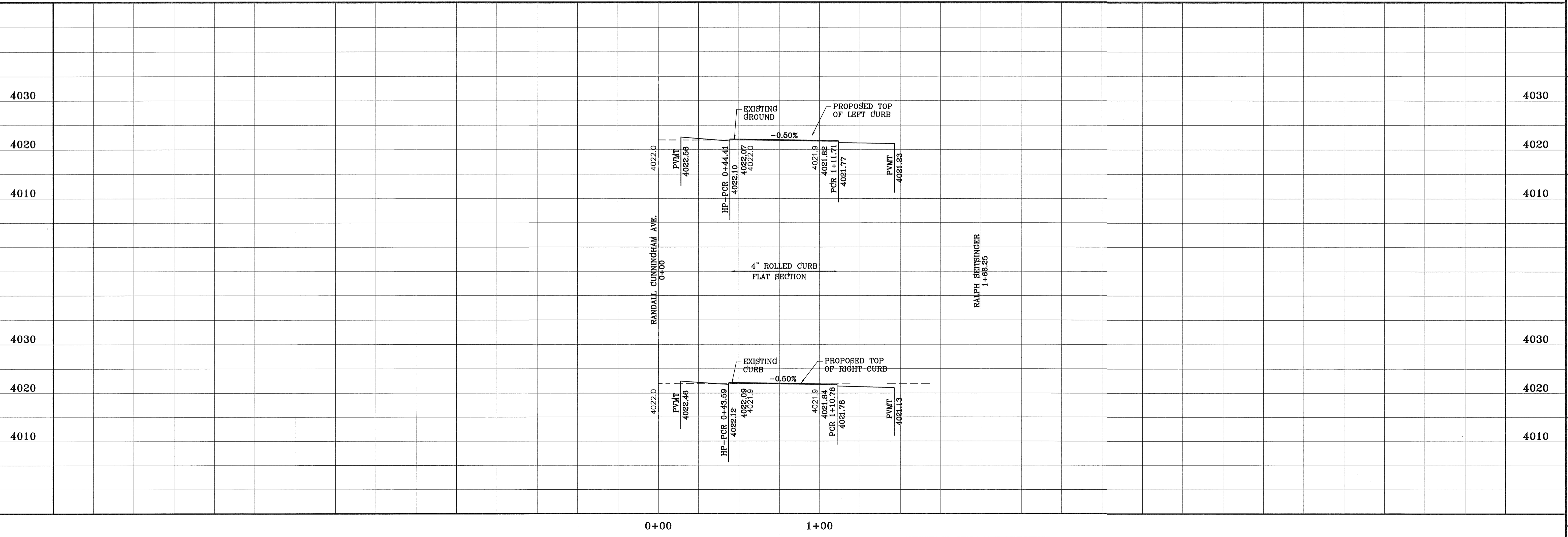
SHEET TITLE: STREET PLAN - PROFILE

**PINTO TRAIL PL.**

STA. 0+00 TO 7+11.47

SHT 80 OF 112

FILE LOCATION: B:\Subdivisions\TDE 67\DWG\TDE67-PP21-LUSITANO PL PLOTTED ON Thursday, August 23, 2012 9:10:56 AM BY OSCAR MEDINA



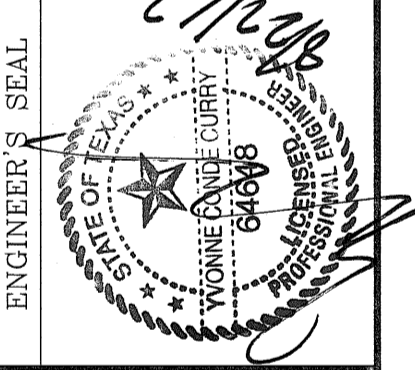
LINE TABLE		
LINE	LENGTH	BEARING
L1	168.246	S0°35'06.14"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C2	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C3	35.00'	54.62'	34.64'	49.24'	S45°17'23"E	89°24'33"
C4	35.00'	55.34'	35.36'	49.75'	N44°42'37"E	90°35'27"

BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47	
DATE	REVISIONS
10/3/11	REVISIONS AS PER 8/24/11 REDLINES O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES O.M.

**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 166.264± ACRES

SCALE  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'  
 DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: EPJ/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

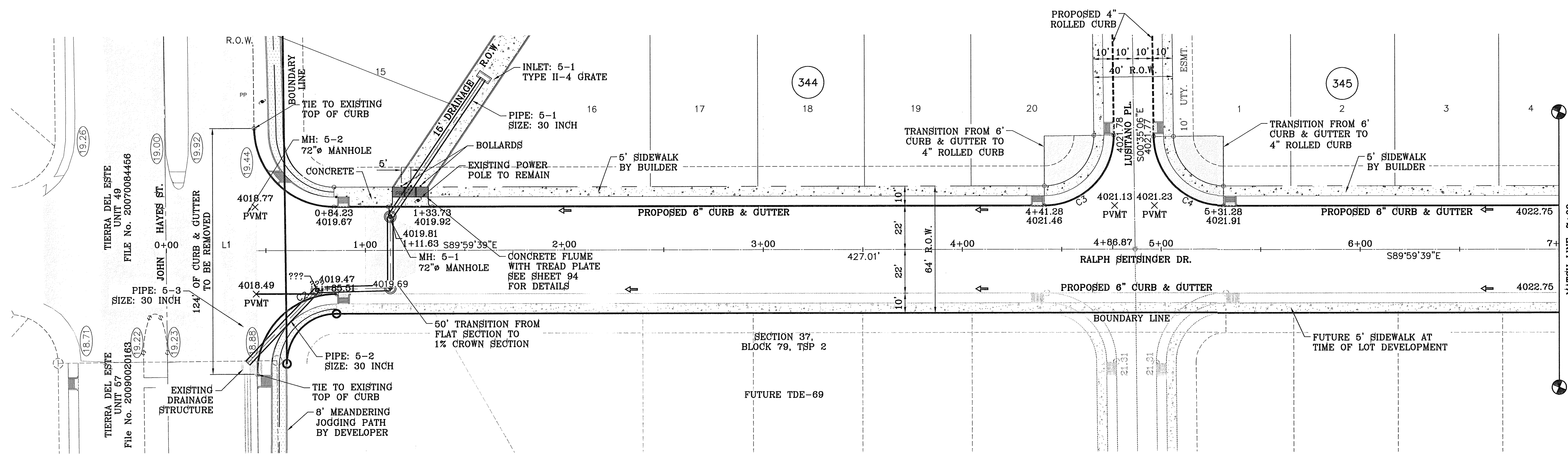


**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286



SHEET TITLE  
**STREET PLAN-PROFILE**  
**LUSITANO PL.**  
 STA. 0+00 TO 1+68.25

FILE LOCATION S:\Subdivisions\TDE 67\DWG\TDE67-PP22-RALPH SEITSINGER PLOTTED ON Thursday, August 23, 2012 9:11:17 AM BY OSCAR MEDINA

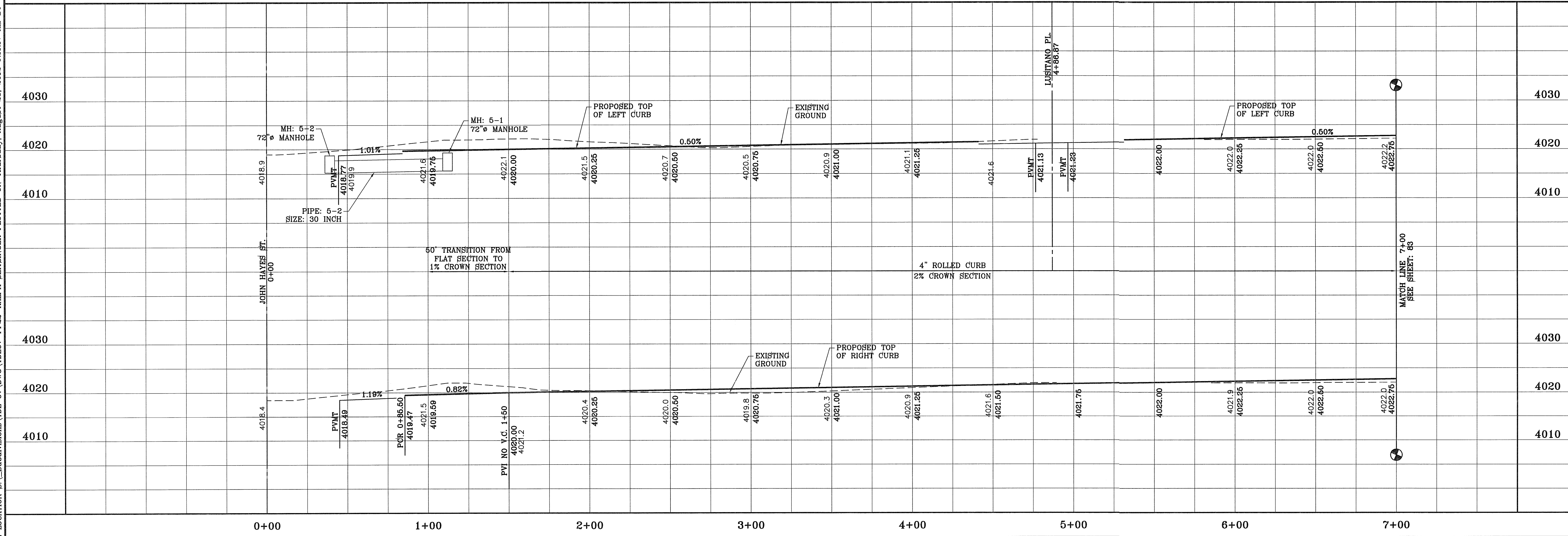


SCALE: 1" = 30'

○ DENOTES AS BUILT CONDITION ONLY

LINE TABLE		
LINE	LENGTH	BEARING
L1	59.855	S89°59'39.49"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	40.00'	62.42'	39.59'	56.28'	S45°17'23"E	89°24'33"
C2	40.00'	63.24'	40.41'	56.86'	S44°42'37"W	90°35'27"
C3	35.00'	55.34'	35.36'	49.75'	N44°42'37"E	90°35'27"
C4	35.00'	54.62'	34.64'	49.24'	S45°17'23"E	89°24'33"



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LANE	ELEVATION 4017.47

**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
 BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS CITY OF EL PASO, TEXAS ACRES CONTAINING: 166.864± ACRES

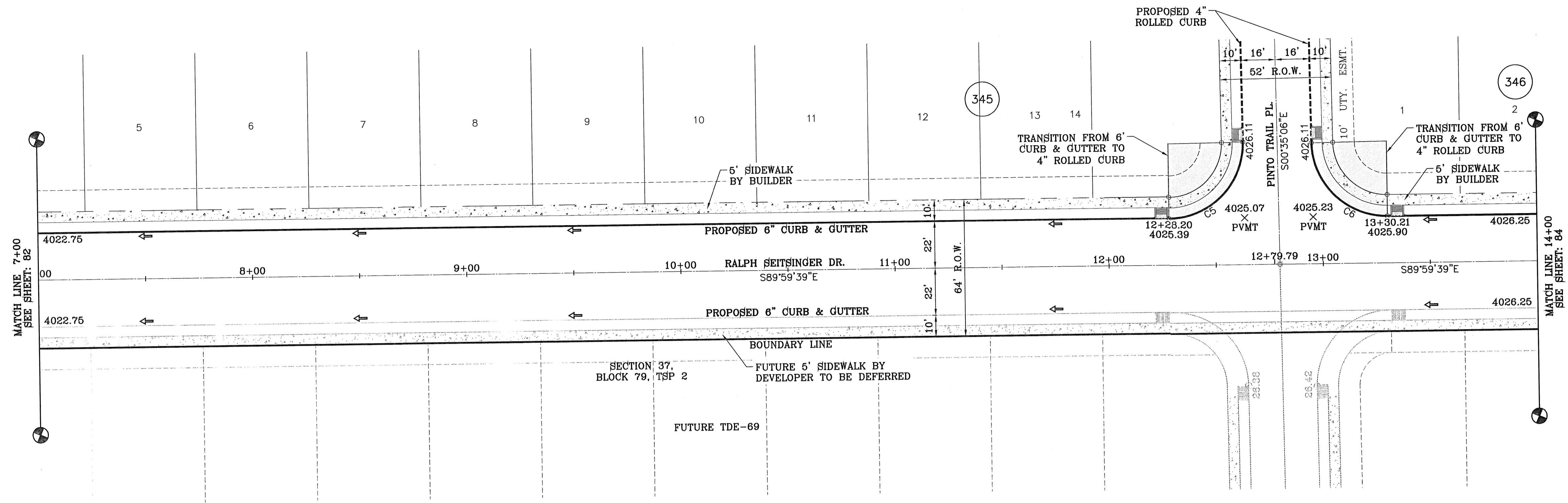
ENGINEER'S SEAL  
 CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS  
 6080 SURETY DR. STE 100 EL PASO, TEXAS 79905  
 PHONE: (915) 582-0283 FAX: (915) 582-0286

**CONDE INC.**  
 ENGINEERING / PLANNING SURVEYING / GPS  
 6080 SURETY DR. STE 100 EL PASO, TEXAS 79905  
 PHONE: (915) 582-0283 FAX: (915) 582-0286

SHEET TITLE  
**STREET PLAN - PROFILE**  
**RALPH SEITSINGER DR.**  
 STA. 0+00 TO 7+00

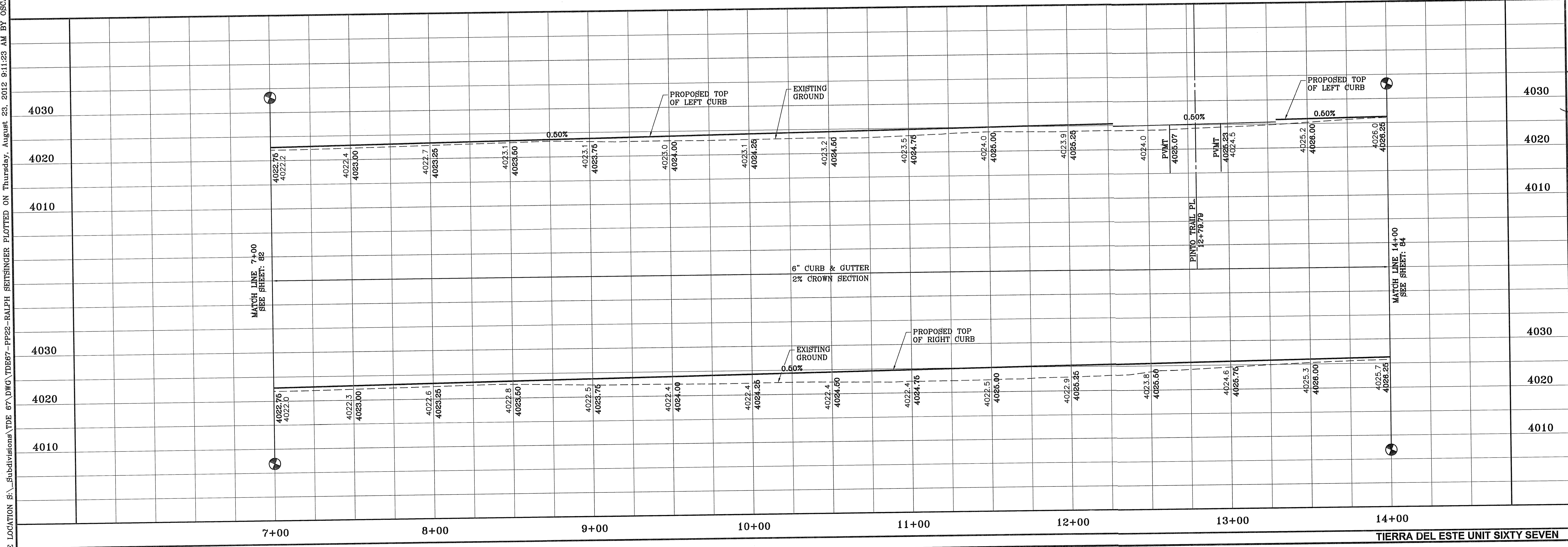
SHT 82 OF 112

FILE LOCATION S:\Subdivisions\TDE 67.DWG\TDE67-PP22-RALPH SEITSINGER PLOTTED ON Thursday, August 23, 2012 9:11:23 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C5	35.00'	55.34'	35.36'	49.75'	N44°42'37"E	90°35'27"
C6	35.00'	54.62'	34.64'	49.24'	S45°17'23"E	89°24'33"



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT	ELEVATION 4017.47

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EFG/OM  
CHECKED BY: YC

JOB NO.: 1110-18

ENGINEER'S SEAL

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

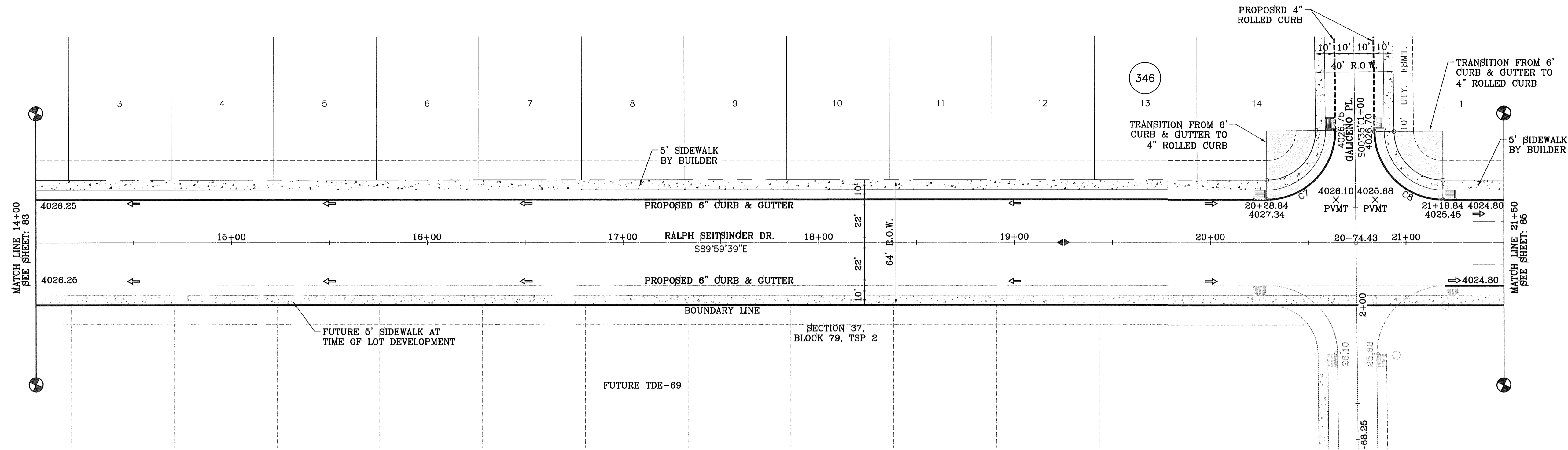
SHEET TITLE  
STREET  
PLAN-PROFILE

**RALPH SEITSINGER DR.**

STA. 7+00 TO 14+00

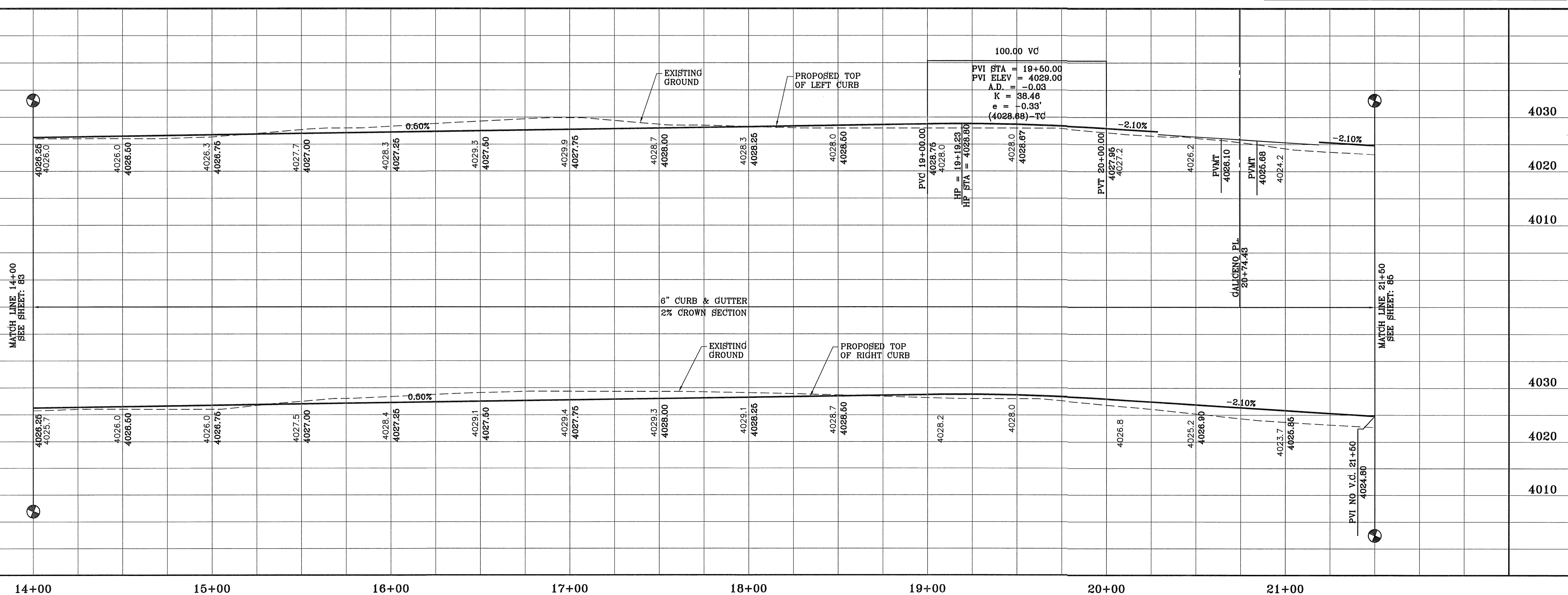
SHT 83 OF 112

FILE LOCATION: B:\Subdivisions\TDE 67.DWG\TDE67-PP22-RALPH SEITSINGER PLOTTED ON Thursday, August 23, 2012 9:11:28 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C7	35.00'	55.34'	35.36'	49.75'	N44°42'37"E	90°35'27"
C8	35.00'	54.62'	34.64'	49.24'	S45°17'23"E	89°24'33"



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE	REVISIONS	BY
10/3/11	REVISIONS AS PER 8/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

ENGINEER'S SEAL

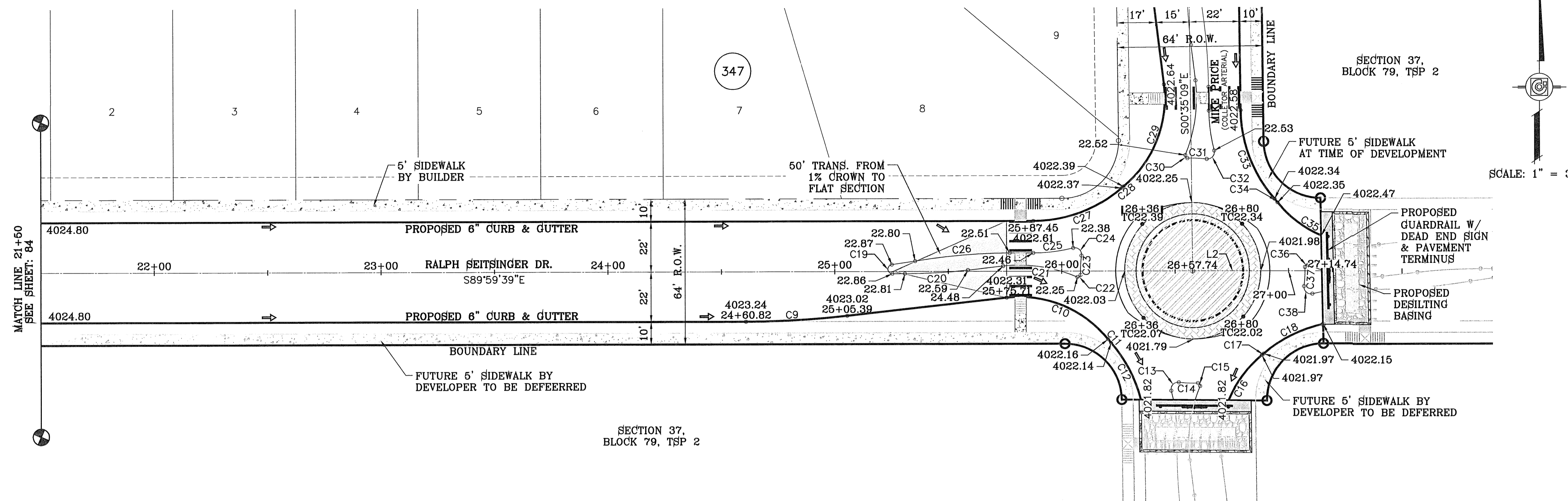
SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: JC  
INITIATED BY: EFG/OM  
CHECKED BY: JC  
JOB NO.: 1110-18

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

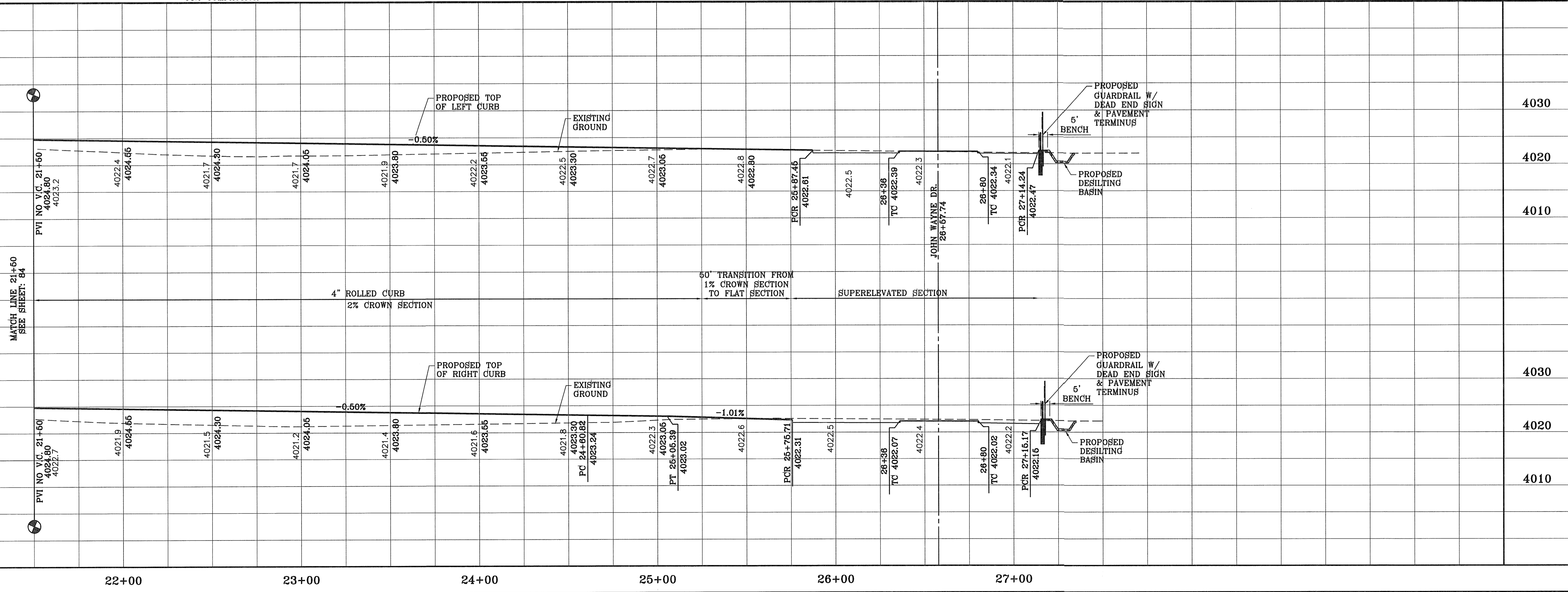
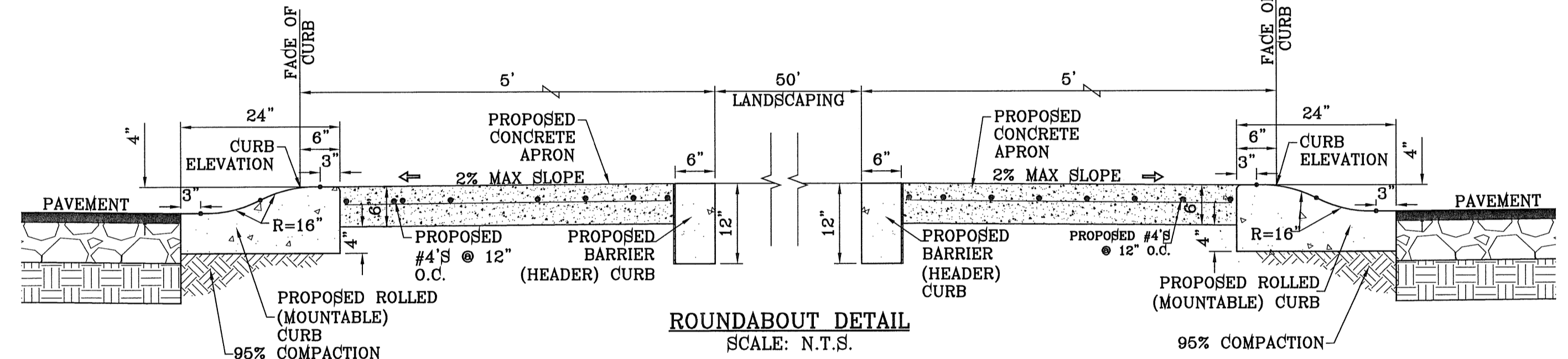
SHEET TITLE  
**STREET PLAN - PROFILE**  
**RALPH SEITSINGER DR.**  
STA. 14+00 TO 21+50

FILE LOCATION S:\Subdivisions\TDE 67.DWG\TDE67-PP22-RALPH SEITSINGER PLOTTED ON Thursday, August 23, 2012 9:11:34 AM BY OSCAR MEDINA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C9	400.00'	44.66'	22.36'	44.64'	N86°48'25"E	6'23'52"
C10	50.00'	50.33'	27.53'	48.23'	N67°33'27"W	57'40'08"
C11	48.00'	2.06'	1.03'	2.06'	S39°57'18"E	2'27'50"
C12	60.00'	28.68'	14.62'	28.41'	N27°29'38"W	27'23'11"
C13	3.00'	5.84'	4.42'	4.96'	S41°29'21"W	111°37'08"
C14	49.50'	8.51'	4.26'	8.50'	S87°37'32"E	9°50'53"
C15	1.00'	2.02'	1.59'	1.69'	N34°47'17"W	115°31'25"
C16	50.00'	25.07'	12.80'	24.81'	S36°19'18"W	28°43'37"
C17	48.00'	1.07'	0.54'	1.07'	N50°02'42"E	1°16'50"
C18	60.00'	29.57'	15.09'	29.27'	S63°31'15"W	28°13'58"
C19	2.00'	6.03'	31.69'	3.99'	S3°36'22"E	172°46'36"
C20	250.00'	27.92'	13.97'	27.90'	N86°48'25"E	6'23'52"
C21	64.00'	33.46'	17.12'	33.08'	N81°24'48"W	29°57'27"
C22	1.00'	2.02'	1.59'	1.69'	N55°48'13"E	115°31'25"
C23	49.50'	8.51'	4.26'	8.50'	S2°57'58"W	9°50'53"
C24	3.00'	5.84'	4.42'	4.96'	N47°55'09"W	111°37'08"
C25	74.00'	17.74'	8.91'	17.70'	N83°08'19"E	13°44'04"
C26	250.00'	41.88'	20.99'	41.83'	S85°12'23"W	9°35'55"
C27	60.00'	42.52'	22.20'	41.63'	N69°42'19"E	40°36'04"
C28	48.00'	1.07'	0.54'	1.07'	S50°02'42"W	1°16'50"
C29	50.00'	50.33'	27.53'	48.23'	N21°51'03"E	57°40'08"
C30	1.00'	2.02'	1.59'	1.69'	S34°47'17"E	115°31'25"
C31	49.50'	8.51'	4.26'	8.50'	N87°37'32"W	9°50'53"
C32	3.00'	5.84'	4.42'	4.96'	N41°29'21"E	111°37'08"
C33	60.00'	42.52'	22.20'	41.63'	S20°53'11"E	40°36'04"
C34	48.00'	2.06'	1.03'	2.06'	N39°57'18"W	2'27'50"
C35	50.00'	24.46'	12.48'	24.22'	S52°44'15"E	28°01'44"
C36	1.00'	2.02'	1.59'	1.69'	S55°48'13"W	115°31'25"
C37	49.50'	8.51'	4.26'	8.50'	N2°57'58"E	9°50'53"
C38	3.00'	5.84'	4.42'	4.96'	S47°55'09"E	111°37'08"

LINE TABLE		
LINE	LENGTH	BEARING
L2	57.003	S89°59'39.49"E
L3	57.003	S0°35'09.49"E



**TIERRA DEL ESTE UNIT SIXTY SEVEN**

PROJECT NAME: TIERRA DEL ESTE UNIT SIXTY SEVEN

BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE: 10/3/11

REVISIONS: REVISIONS AS PER 8/24/11 REDLINES

BY: O.M.

DATE: 11/1/11

REVISIONS: REVISIONS AS PER 10/19/11 REDLINES

BY: O.M.

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 168.804± ACRES

SCALE: HORIZ: 1" = 90' VERT: 1" = 10'

DATE: MAY 2012

DESIGN BY: YC

INITIATED BY: FRG/OM

CHECKED BY: YC

JOB NO.: 1110-18

CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURVEY DR. STE. 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286

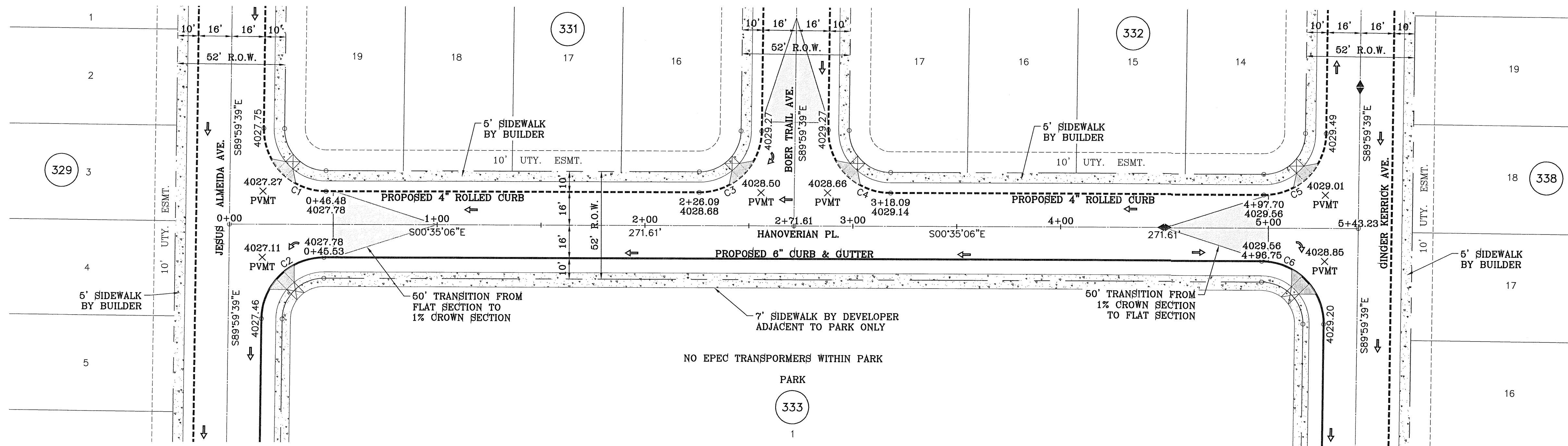
SHEET TITLE: STREET PLAN - PROFILE

**RALPH SEITSINGER DR.**

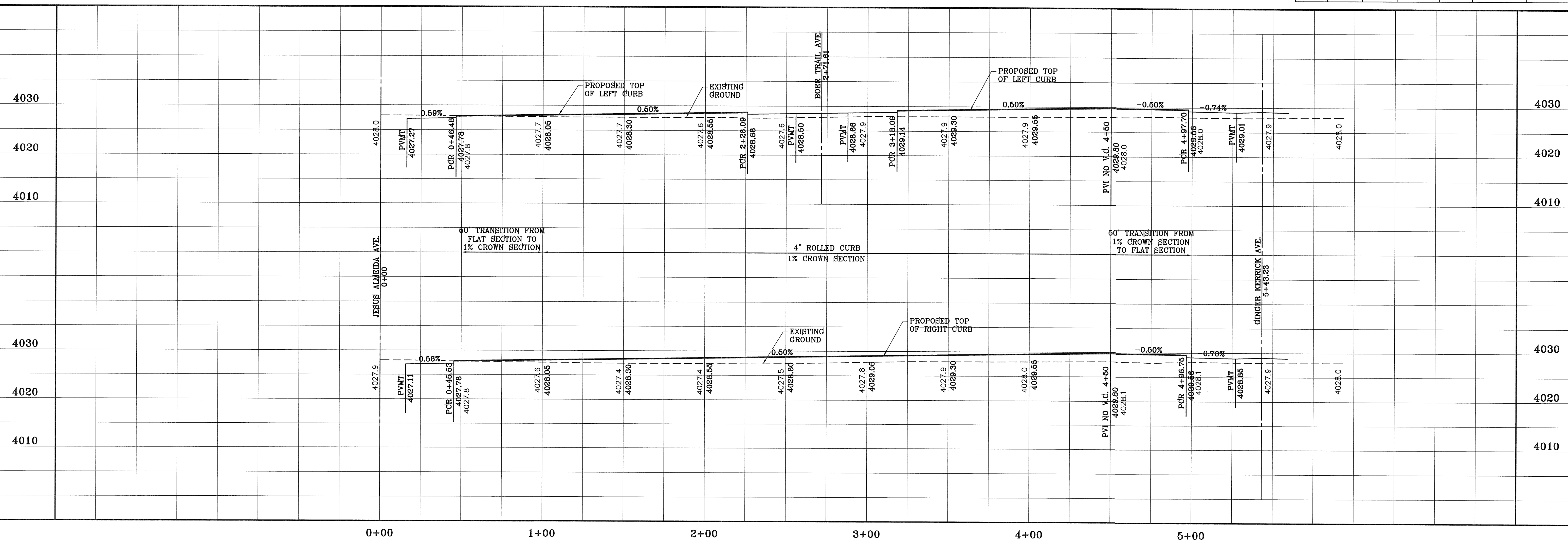
STA. 21+50 TO 27+14.74

SHT 85 OF 112

FILE LOCATION S:\Subdivisions\TDE 67\_DWG YDE67-PP23-HANOVERIAN PL PLOTTED ON Thursday, August 23, 2012 9:11:51 AM BY OSCAR MEDINA



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C2	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C3	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C4	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C5	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C6	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"



**TERRA DEL ESTE UNIT SIXTY SEVEN**

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

PROJECT NAME: TIERRA DEL ESTE UNIT SIXTY SEVEN

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

DATE: 10/3/11  
REVISIONS AS PER 8/24/11 REDLINES  
BY: O.M.

DATE: 11/1/11  
REVISIONS AS PER 10/19/11 REDLINES  
BY: O.M.

SCALE: 1" = 30'

HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012

DESIGN BY: YC  
INITIATED BY: EFG/JM  
CHECKED BY: YC

JOB NO.: 1110-18

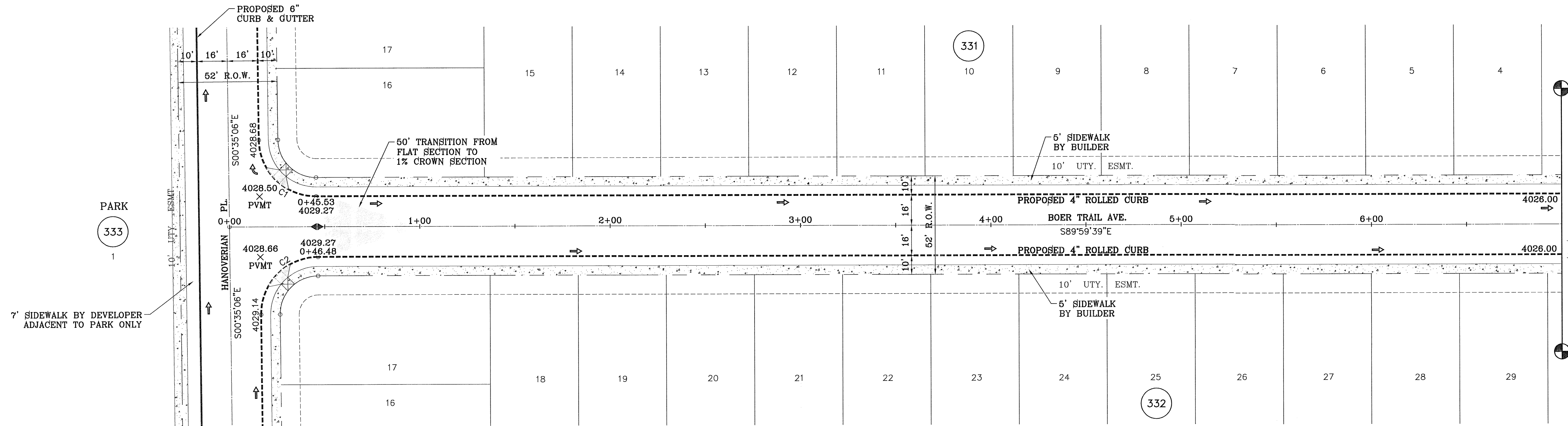
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GFS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN-PROFILE**  
**HANOVERIAN PL.**  
STA. 0+00 TO 5+43.23

SHT 86 OF 112

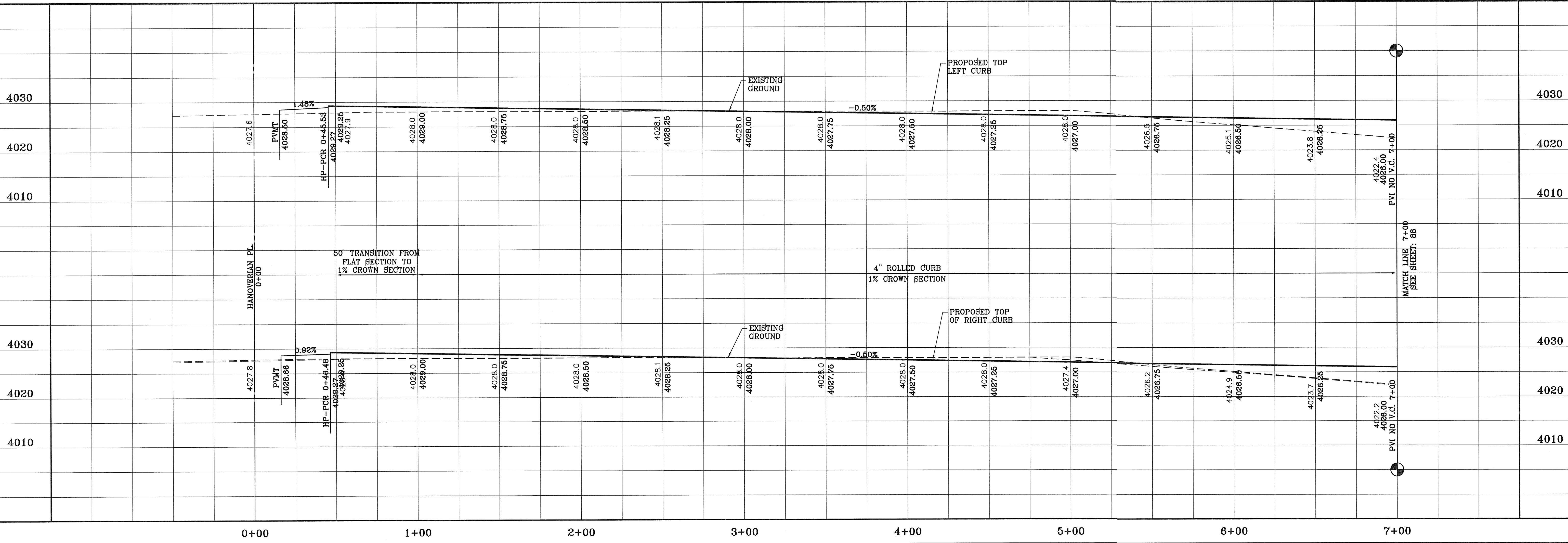


FILE LOCATION: s:\\_Subdivisions\TDE 67\DWG\TDE67-PP24-BOER TRAIL PLOTTED ON Thursday, August 23, 2012 9:12:12 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"
C2	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE	REVISIONS	BY
10/3/11	REVISIONS AS PER 8/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.264± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: FRG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

ENGINEER'S SEAL

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURVEY DR. SITE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**STREET PLAN - PROFILE**

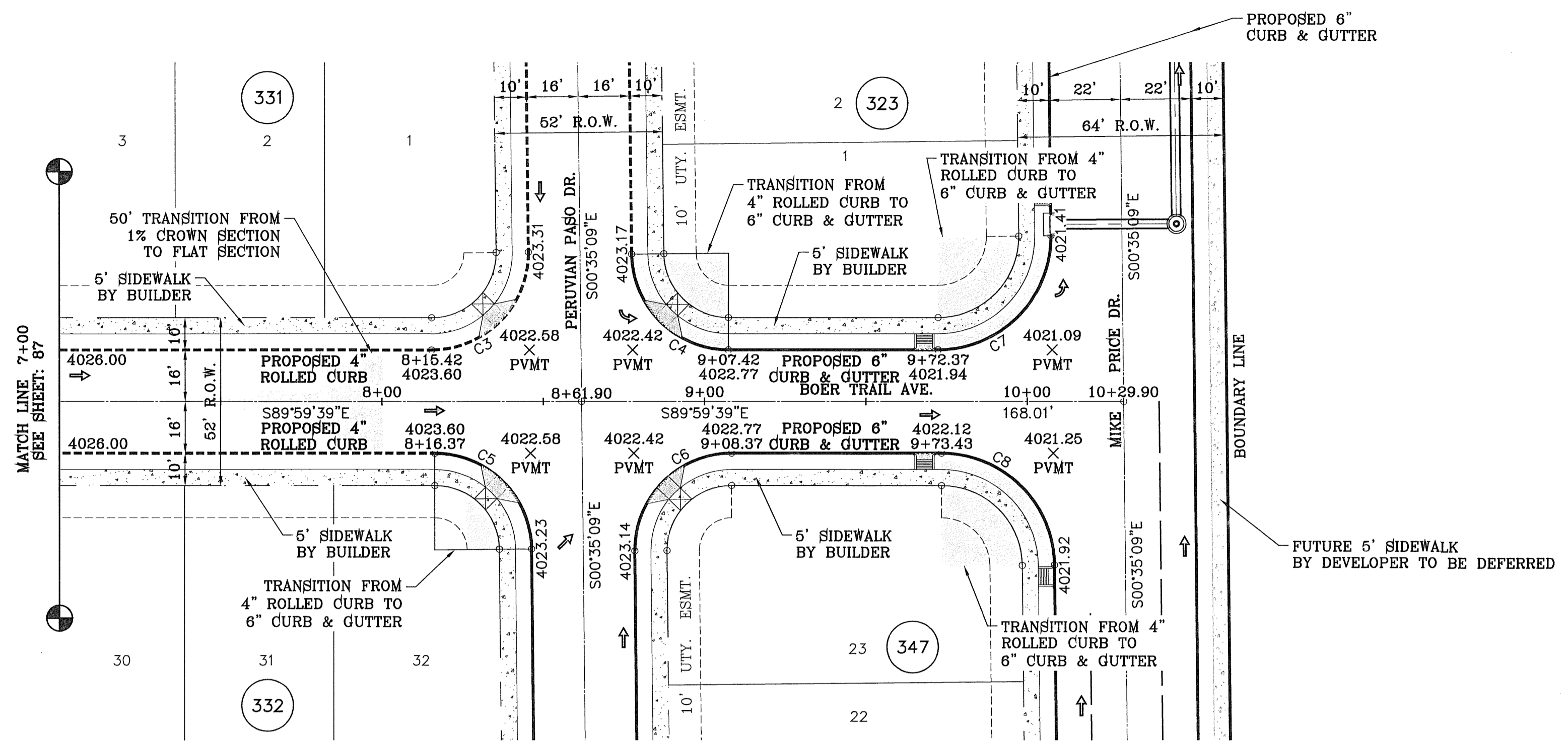
**BOER TRAIL AVE.**

STA. 0+00 TO 7+00

SHT 87 OF 112

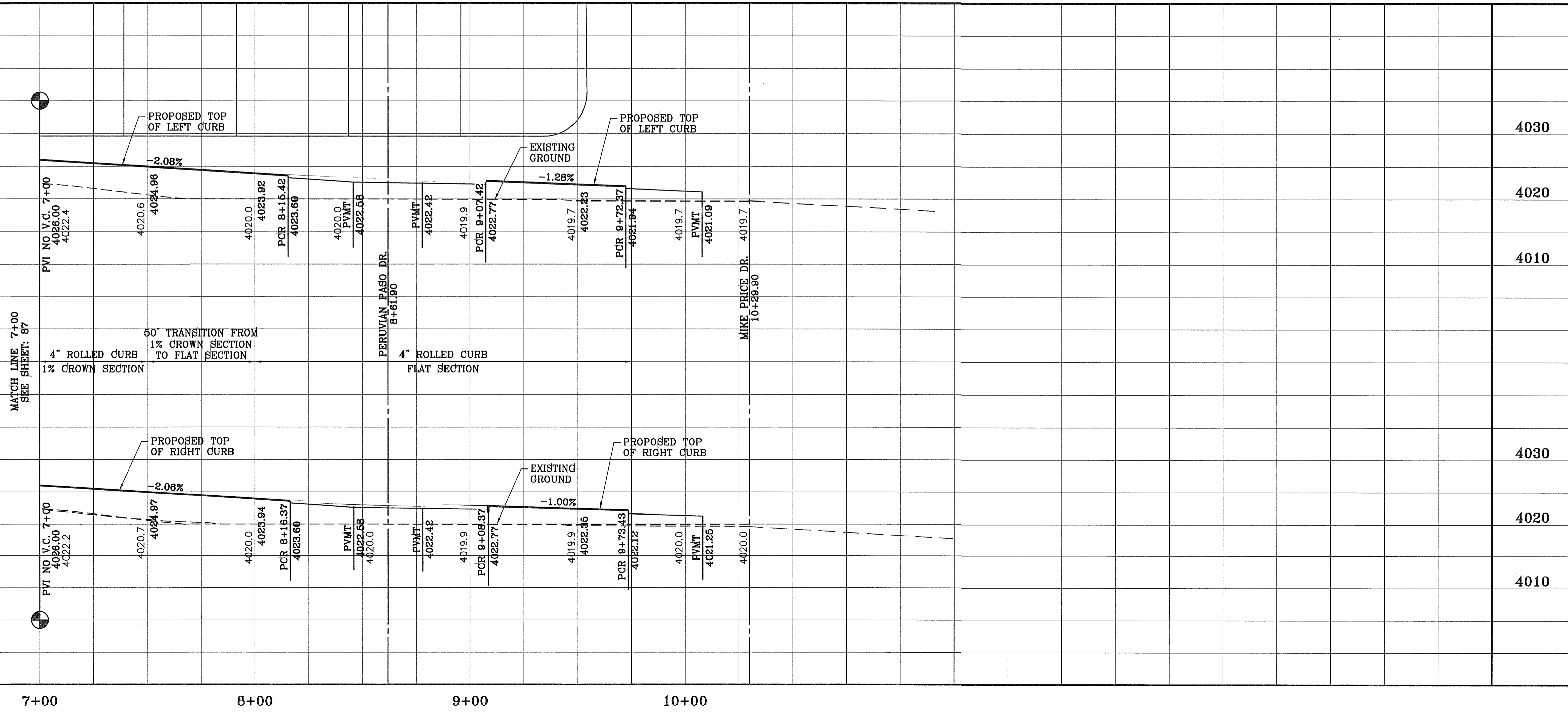
TIERRA DEL ESTE UNIT SIXTY SEVEN

FILE LOCATION: S:\Subdivisions\TDE 67\DWG\TDE67-PP24-BOER TRAIL PLOTTED ON Thursday, August 23, 2012 9:12:19 AM BY OSCAR MEDINA



SCALE: 1" = 30'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C3	30.00'	47.43'	30.31'	42.64'	N44°42'36"E	90°35'30"
C4	30.00'	46.81'	29.69'	42.21'	S45°17'24"E	89°24'30"
C5	30.00'	46.81'	29.69'	42.21'	N45°17'24"W	89°24'30"
C6	30.00'	47.43'	30.31'	42.64'	S44°42'36"W	90°35'30"
C7	35.00'	55.34'	35.36'	49.75'	N44°42'36"E	90°35'30"
C8	35.00'	54.62'	34.64'	49.24'	N45°17'24"W	89°24'30"



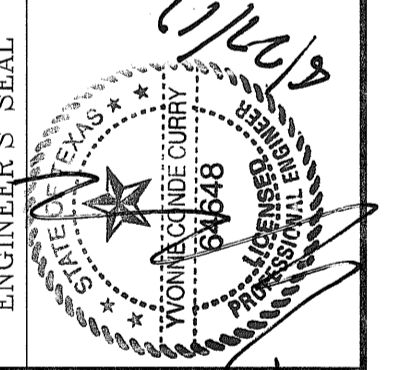
BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.	ELEVATION 4017.47
DATE	REVISIONS
10/23/11	REVISIONS AS PER 8/24/11 REDLINES
11/1/11	REVISIONS AS PER 10/19/11 REDLINES
	O.M.
	O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

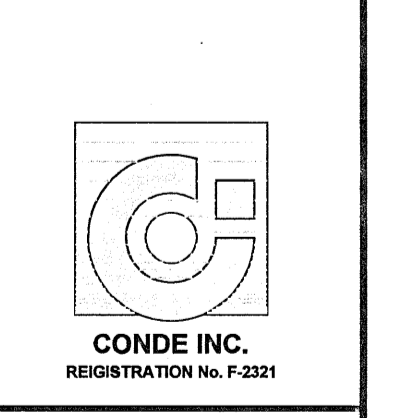
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY Co. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 166.264± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'

DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18



**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURVEY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

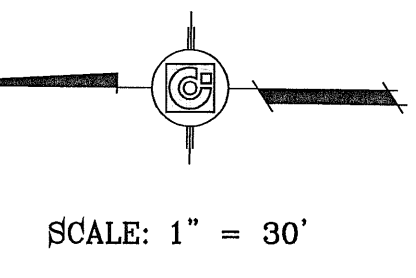
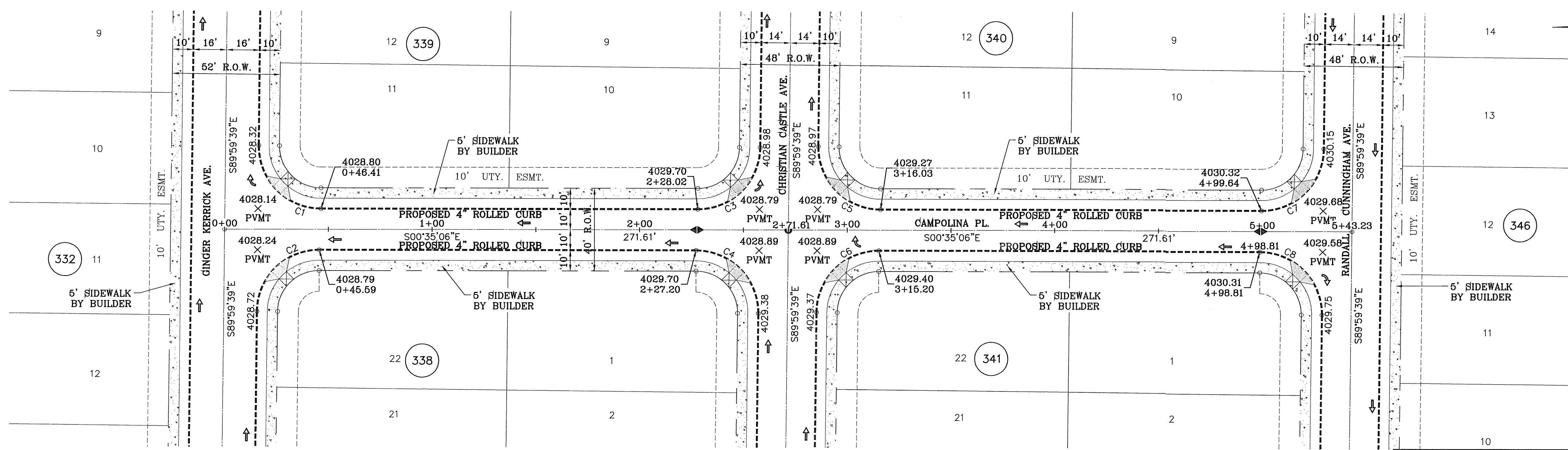


SHEET TITLE  
**STREET PROFILE**

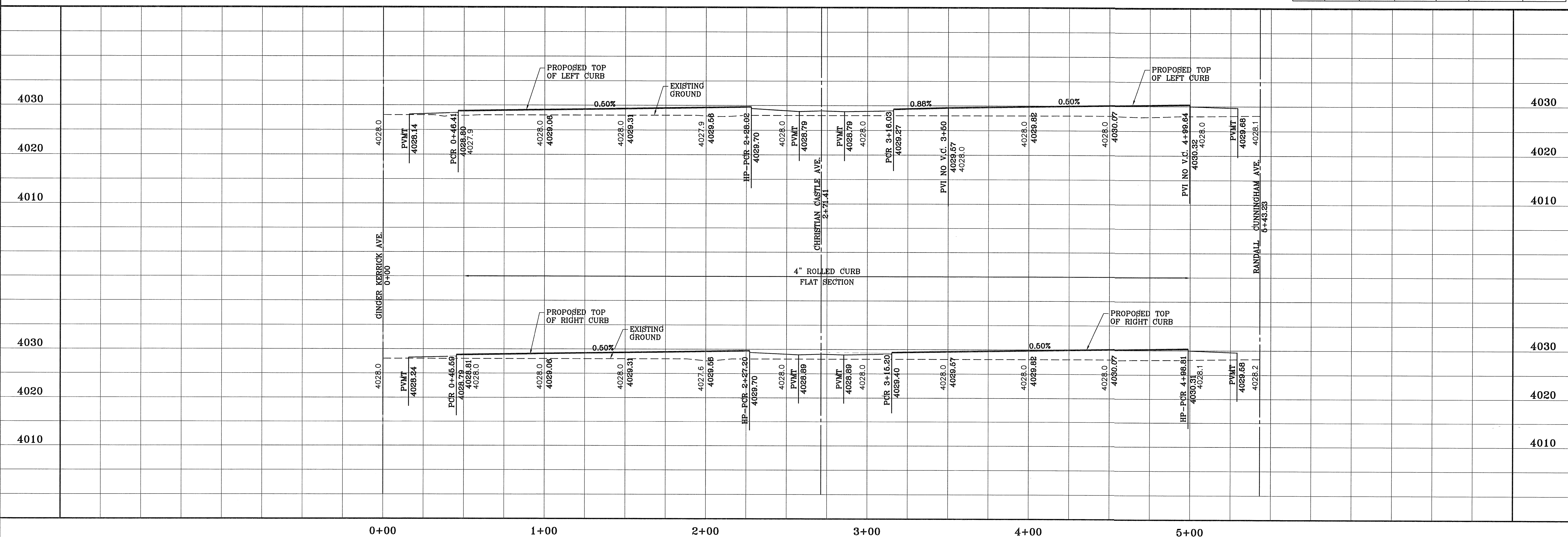
**BOER TRAIL AVE.**

STA. 7+00 TO 10+29.90

FILE LOCATION S:\\_Subdivisions\TDE 67\DWG\TDE67-PP25-CAMPOLINA PL. PLOTTED ON Thursday, August 23, 2012 9:12:35 AM BY OSCAR MEDINA



CURVE TABLE							
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA	
C1	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"	
C2	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"	
C3	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"	
C4	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"	
C5	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"	
C6	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"	
C7	30.00'	46.81'	29.69'	42.21'	S45°17'23"E	89°24'33"	
C8	30.00'	47.43'	30.31'	42.64'	N44°42'37"E	90°35'27"	



BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47  
DATE 10/3/11  
REVISIONS AS PER 8/24/11 REDLINES  
BY O.M.  
DATE 11/1/11  
REVISIONS AS PER 10/19/11 REDLINES  
BY O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

ENGINEER'S SEAL

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

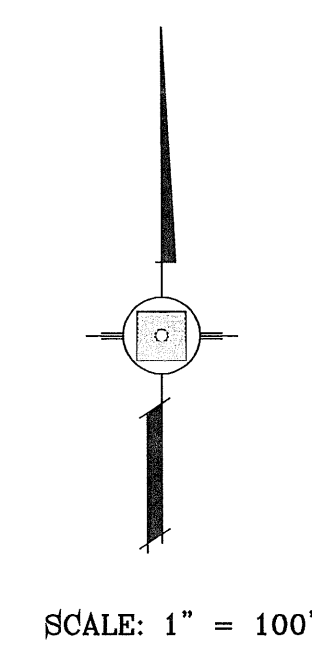
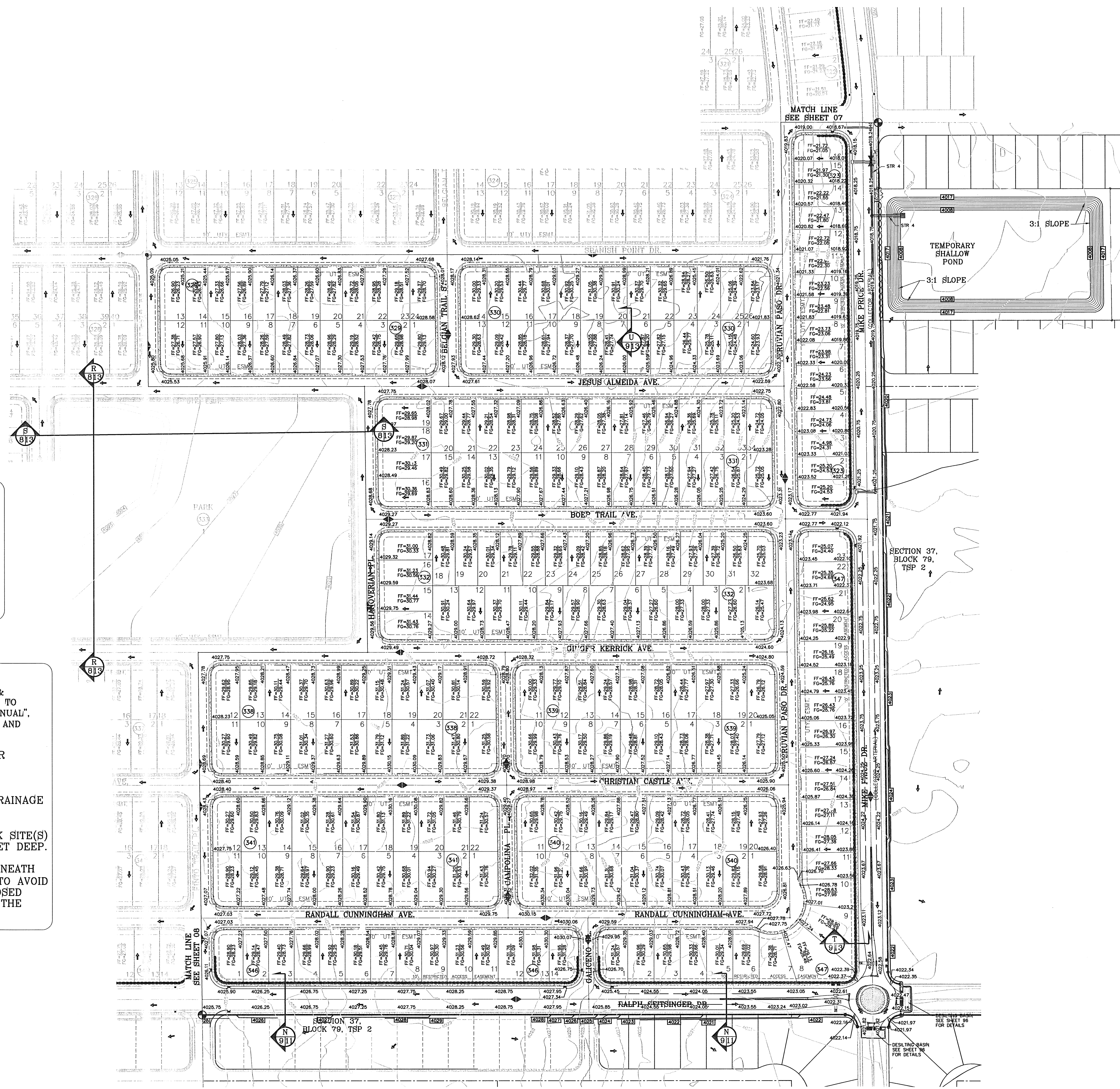
SHEET TITLE  
STREET  
PLAN-PROFILE  
**CAMPOLINA PL.**  
STA. 0+00 TO 5+43.23

DETAIL No. SECTION DETAIL SHEET SECTION REFERENCE SHEET

NOTE: HEREON DESCRIBED TRACT LIES IN ZONE X, COMMUNITY PANEL NO. 480212 0176B. DATED SEPTEMBER 4, 1991.

LEGEND table with symbols for FF=00.67, FG=00.00, 00.00, high/low points, existing/future contours, rock walls, and retaining walls.

- NOTES: 1. POND DESIGN, SIDE SLOPES, BENCHING, & DRAINAGE CALCULATIONS SHALL CONFORM TO REQUIREMENTS OF "DRAINAGE DESIGN MANUAL"... 2. SEE SHEET 91 AND 92 OF 112 FOR DRAINAGE STRUCTURES... 3. DEVELOPER IS RESPONSIBLE FOR MAINTENANCE OF ALL OFF-SITE DRAINAGE STRUCTURES... 4. ANY UTILITIES PLACED WITHIN PARK SITE(S) SHALL BE AT MINIMUM OF FIVE FEET DEEP...



REVISIONS table with columns for DATE, REVISIONS, and BY. Includes entries for 10/3/11 and 11/1/11.

PROJECT NAME: TIERRA DEL ESTE UNIT SIXTY SEVEN. BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS. CITY OF EL PASO, EL PASO COUNTY, TEXAS. CONTAINING: 166.264± ACRES

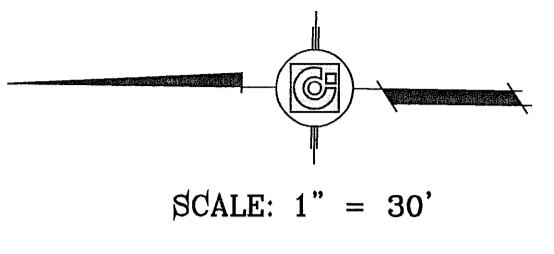
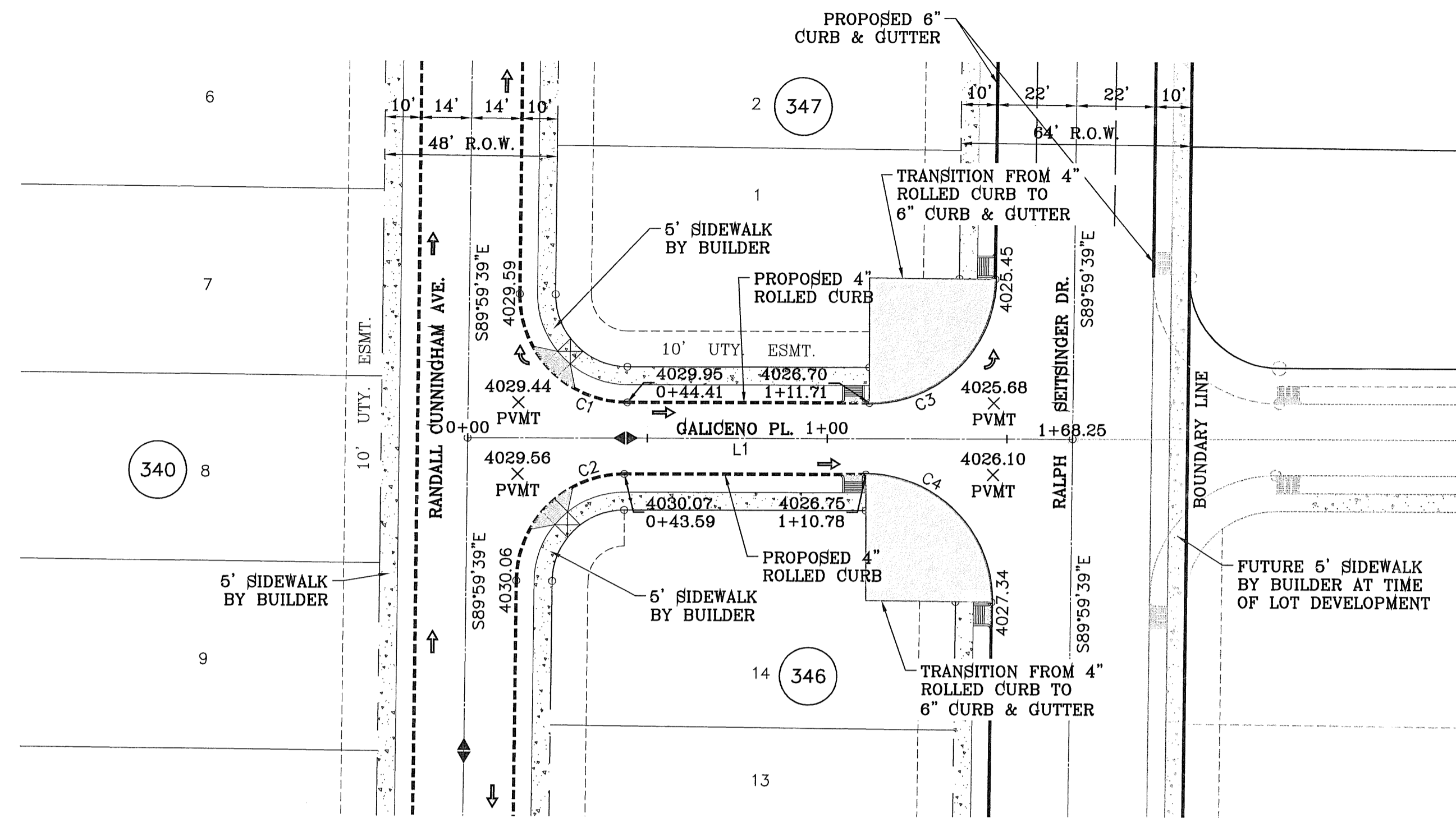
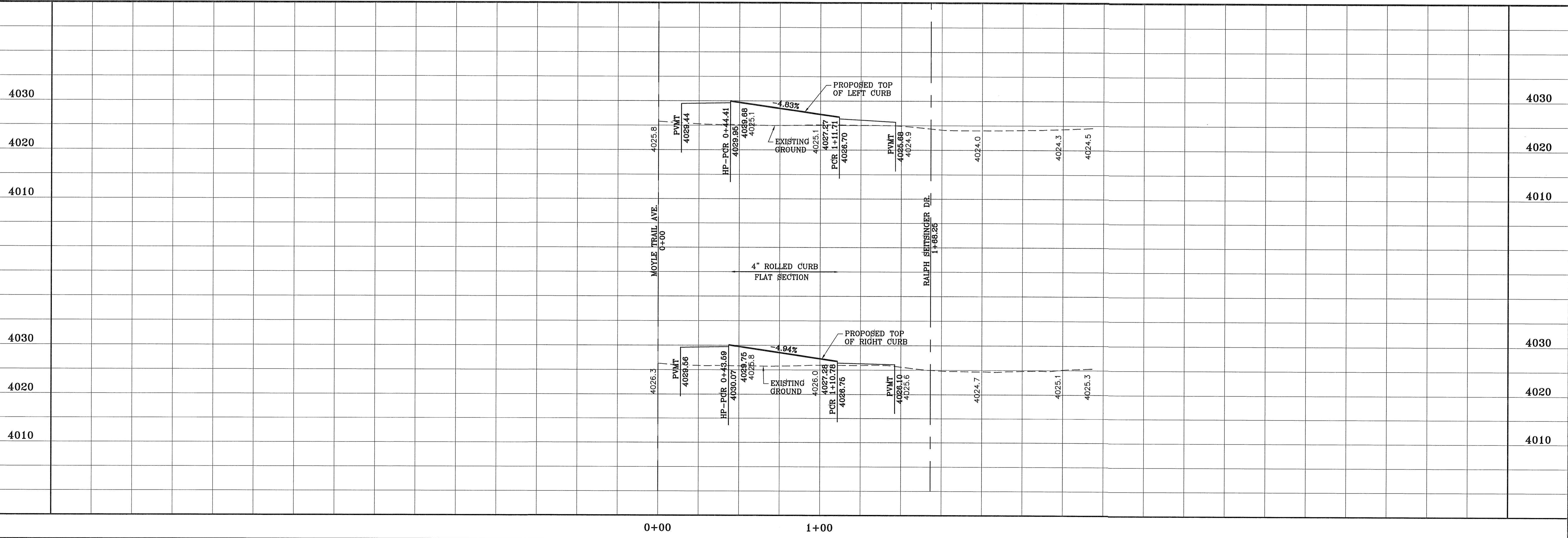
SCALE: HORIZ: 1" = 100', VERT: ---. DATE: MAY 2012. DESIGN BY: MEF. INITIATED BY: BFMOM. CHECKED BY: YC. JOB NO.: 1110-18



CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS. 6080 SURREY DR. STE. 100 EL PASO, TEXAS 79905. PHONE: (915) 592-0283 FAX: (915) 592-0286



FILE LOCATION S:\Subdivision\TDE 67.DWG\TDE67-PP26-GALICENO PL PLOTTED ON Thursday, August 23, 2012 9:12:56 AM BY OSCAR MEDINA



LINE TABLE		
LINE	LENGTH	BEARING
L1	168.246	S0°35'06.14"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.43'	30.31'	42.64'	S44°42'37"W	90°35'27"
C2	30.00'	46.81'	29.69'	42.21'	N45°17'23"W	89°24'33"
C3	35.00'	54.62'	34.64'	49.24'	S45°17'23"E	89°24'33"
C4	35.00'	55.34'	35.36'	49.75'	N44°42'37"E	90°35'27"

**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.2641 ACRES

PROJECT NAME: **TIERRA DEL ESTE UNIT SIXTY SEVEN**

BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN. ELEVATION 4017.47

DATE	REVISIONS	BY
10/2/11	REVISIONS AS PER 8/24/11 REDLINES	O.M.
11/1/11	REVISIONS AS PER 10/19/11 REDLINES	O.M.

SCALE: 1" = 30'

HORIZ: 1" = 30'  
VERT: 1" = 10'

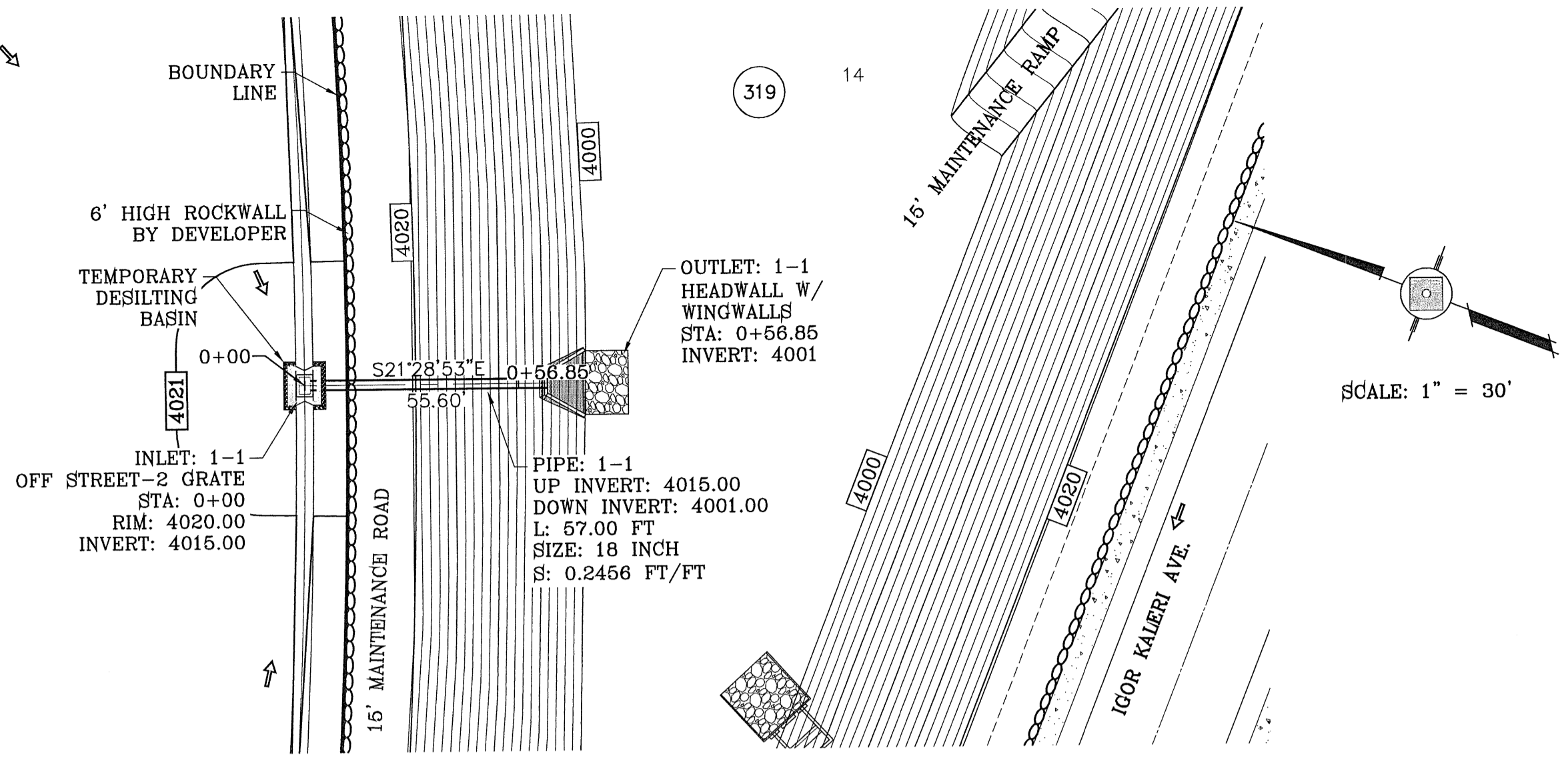
DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: EFM/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 582-0283  
FAX: (915) 582-0286

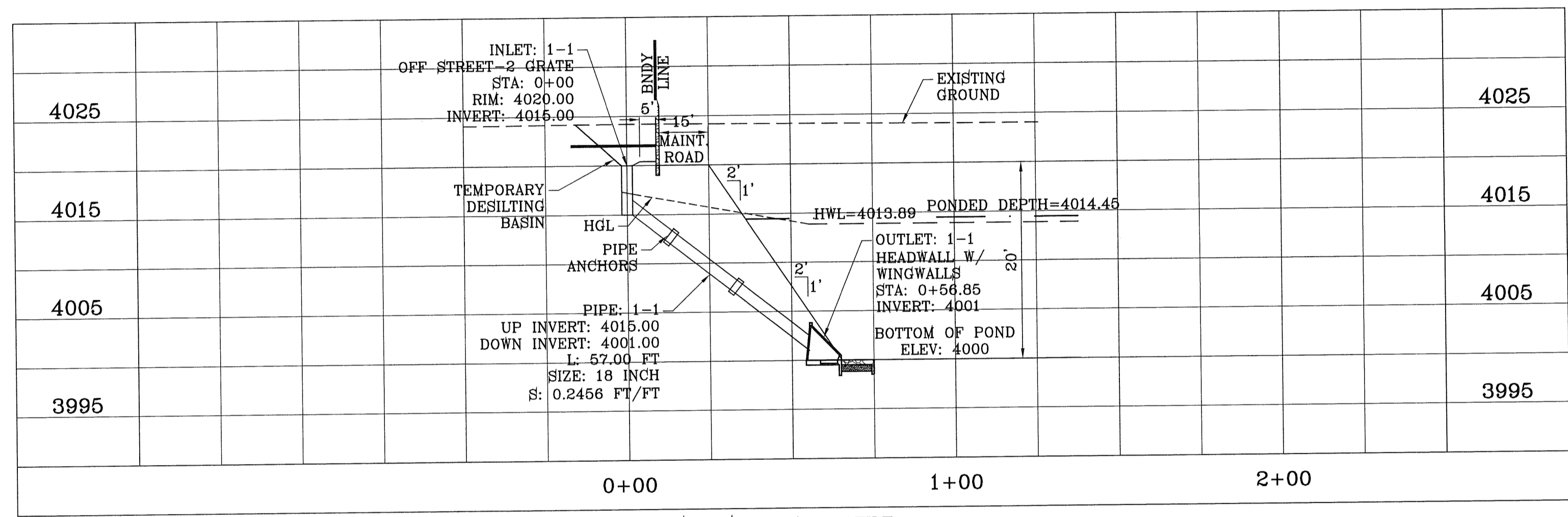
**GALICENO PL.**  
STA. 0+00 TO 1+68.25

SHEET TITLE: **STREET PLAN-PROFILE**

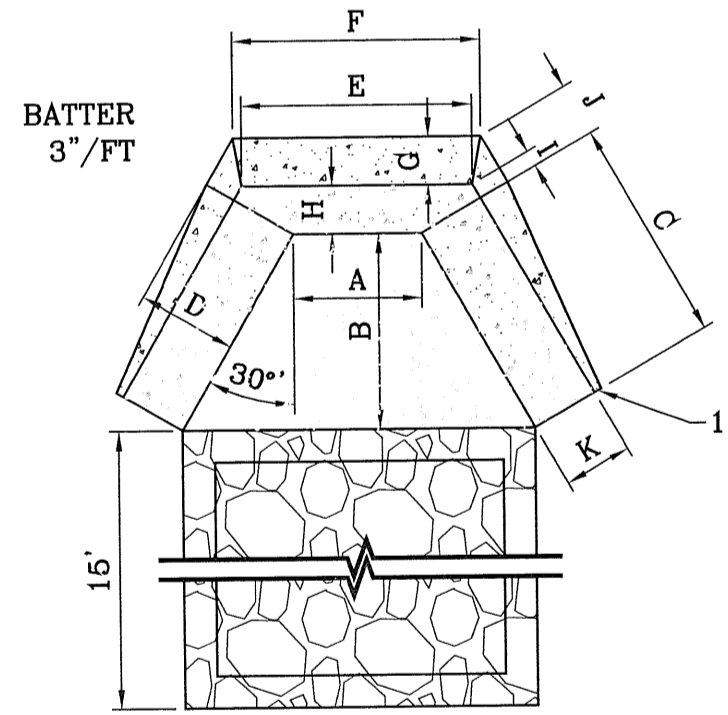
SHT 90 OF 112



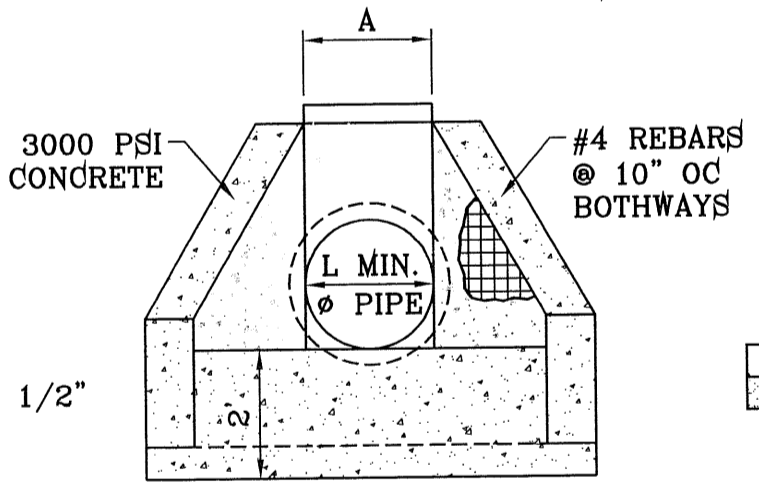
STRUCTURE 1-PLAN VIEW  
SCALE: 1"=30'



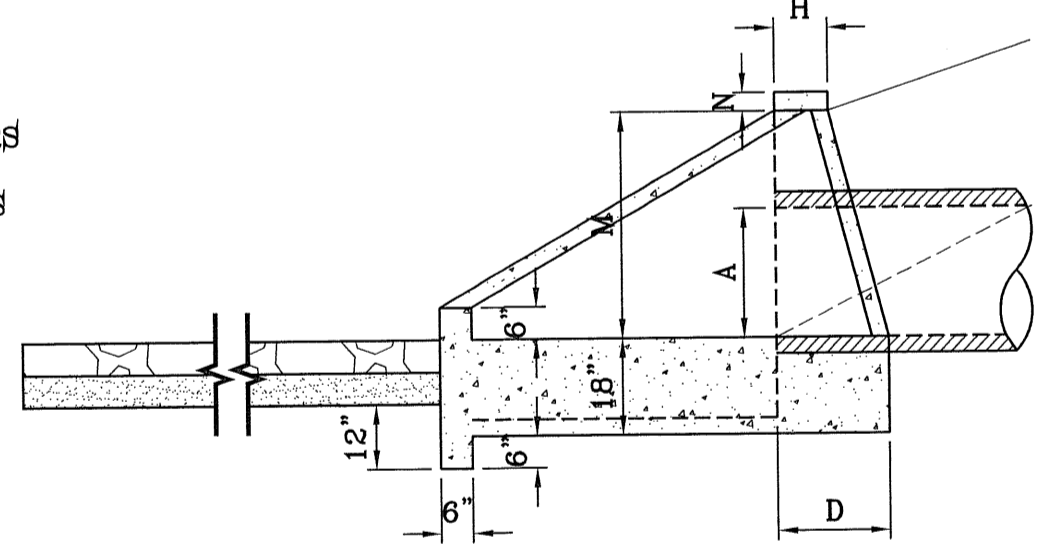
STRUCTURE 1-PROFILE  
SCALE: 1"=10'



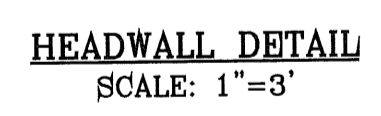
PLAN



FRONT ELEVATION

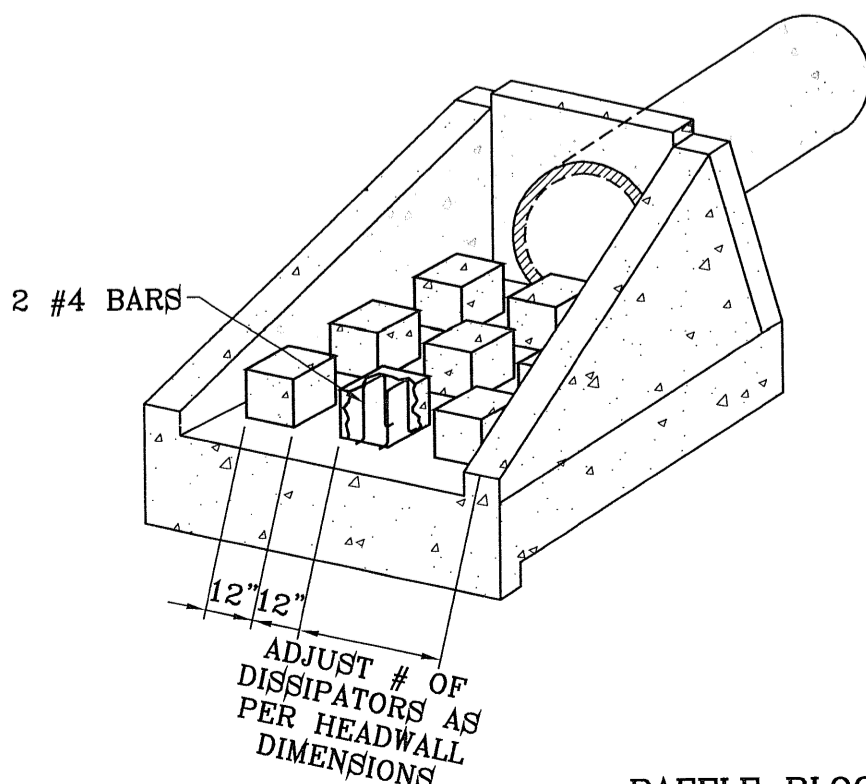


SIDE ELEVATION

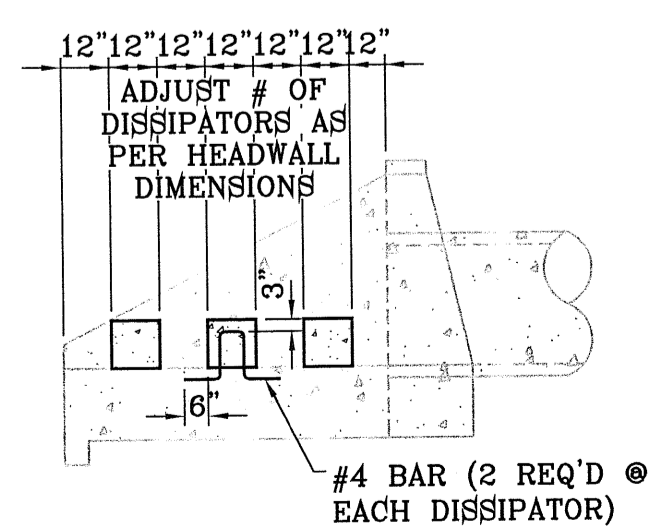


HEADWALL DETAIL  
SCALE: 1"=3'

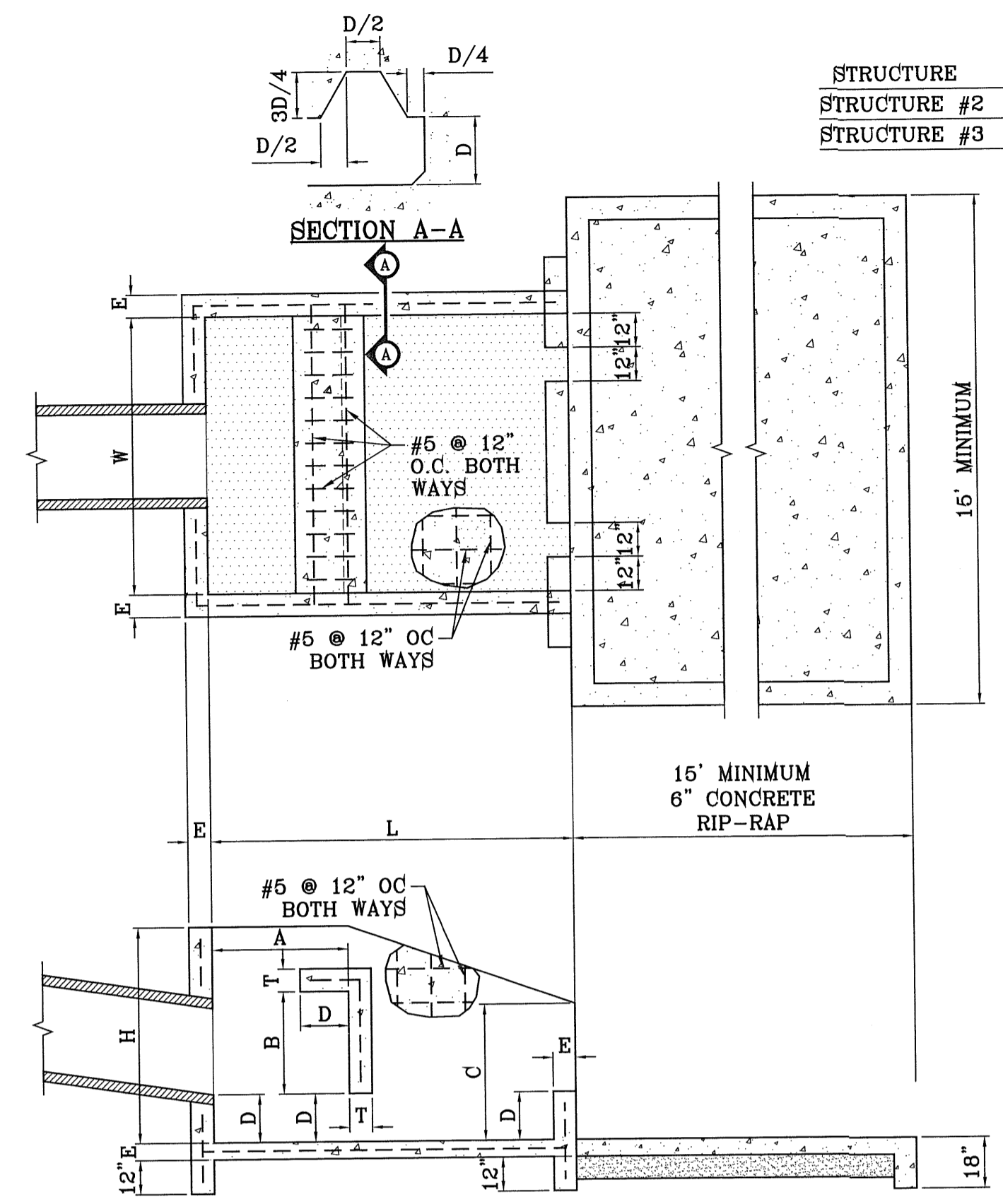
DIA. OF PIPE	A	B	C	D	E	F	G	H	I	J	K	L (MIN.)	M	N
18"	18"	36"	3' 6"	16"	2' 4"	3' 0"	7"	9"	5 1/2"	9"	9"	2"	2' 6"	3"



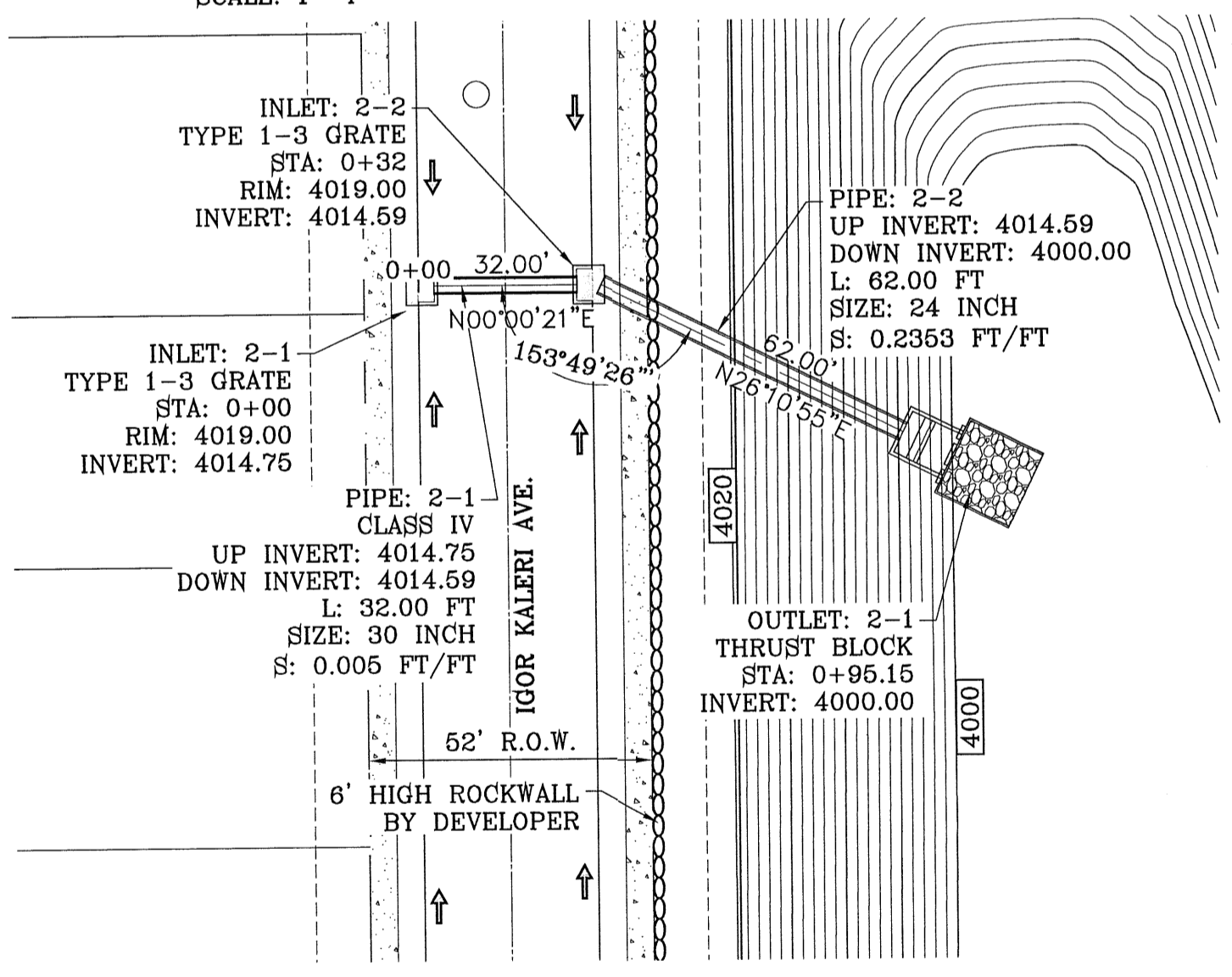
BAFFLE BLOCK DETAIL  
SCALE: 1"=4'



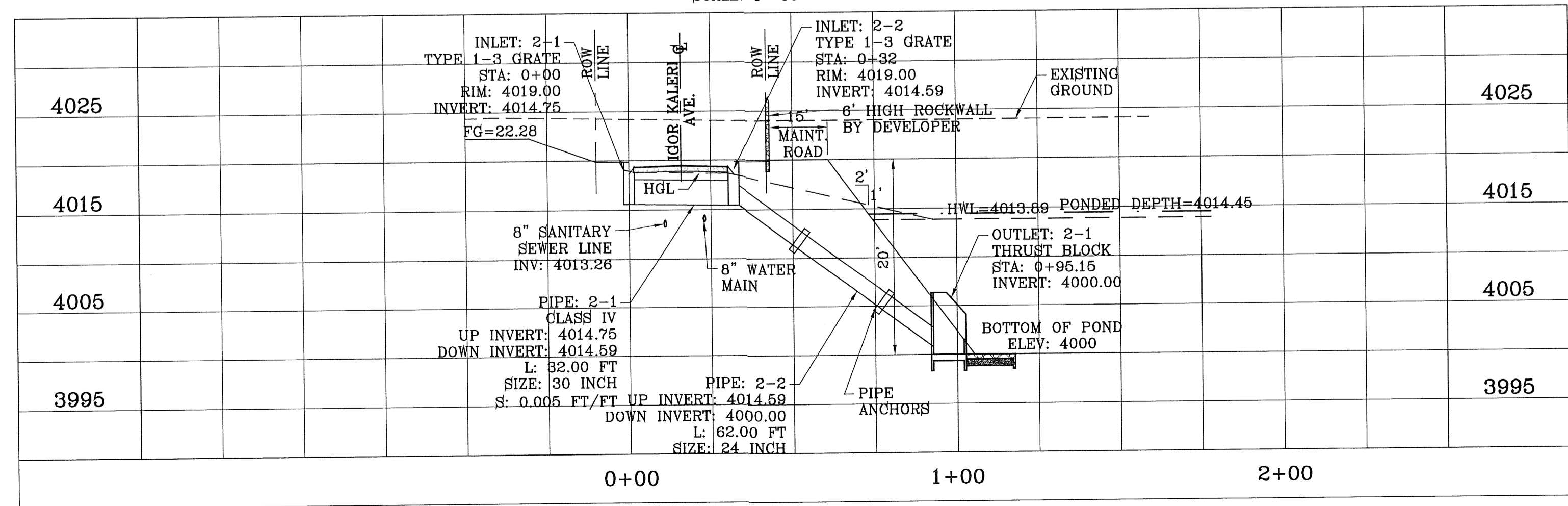
TEMPORARY STRUCTURE DESILTING BASIN  
SCALE: 1"=4'



THRUST BLOCK DETAIL  
SCALE: 1"=4'



STRUCTURE 2-PLAN VIEW  
SCALE: 1"=30'



STRUCTURE 2-PROFILE  
SCALE: 1"=10'

PIPE	SECTION SIZE (in)	LENGTH (ft)	CONSTRUCTED SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (fps)	DOWN STREAM GOUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
1-1	18	57.00	0.246	24.96	52.06	14.12	4020.00	4013.89	4001.00	4020.00	4017.11	4015.00
2-1	24	32.00	0.005	27.71	29.00	5.65	4019.00	4017.84	4014.59	4019.00	4017.99	4014.75
2-2	30	62.00	0.235	55.42	109.74	17.64	4020.00	4013.89	4000.00	4019.00	4017.61	4014.59

STRUCTURE	H	L	A	B	C	D	E	F	W
STRUCTURE #2	4'3"	7'6"	2'10"	2'1"	2'10"	11"	6"	6"	3"
STRUCTURE #3	3'4"	6'0"	2'3"	1'8"	2'3"	9"	4"	4"	3"

INLET DATA				
INLET No.	INLET TYPE	No. GRATES	Qd cfs	Qc cfs
1-1	OFF-ST	2	24.96	27.82
2-1	I	3	27.71	32.52
2-2	I	3	27.71	32.52

CLOGGING FACTOR IS EQUAL TO 2/3

ALL PIPES ARE R.C.P. CLASS III UNLESS OTHERWISE NOTED.

- CONSTRUCTION NOTES:**
- ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
  - MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
  - 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
  - REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
  - ALL 2:1 SLOPES TO BE STABILIZED WITH HYDROMULCH. SEE GSP.
  - DEVELOPER IS RESPONSIBLE FOR ALL OFFSITE DRAINAGE STRUCTURES.

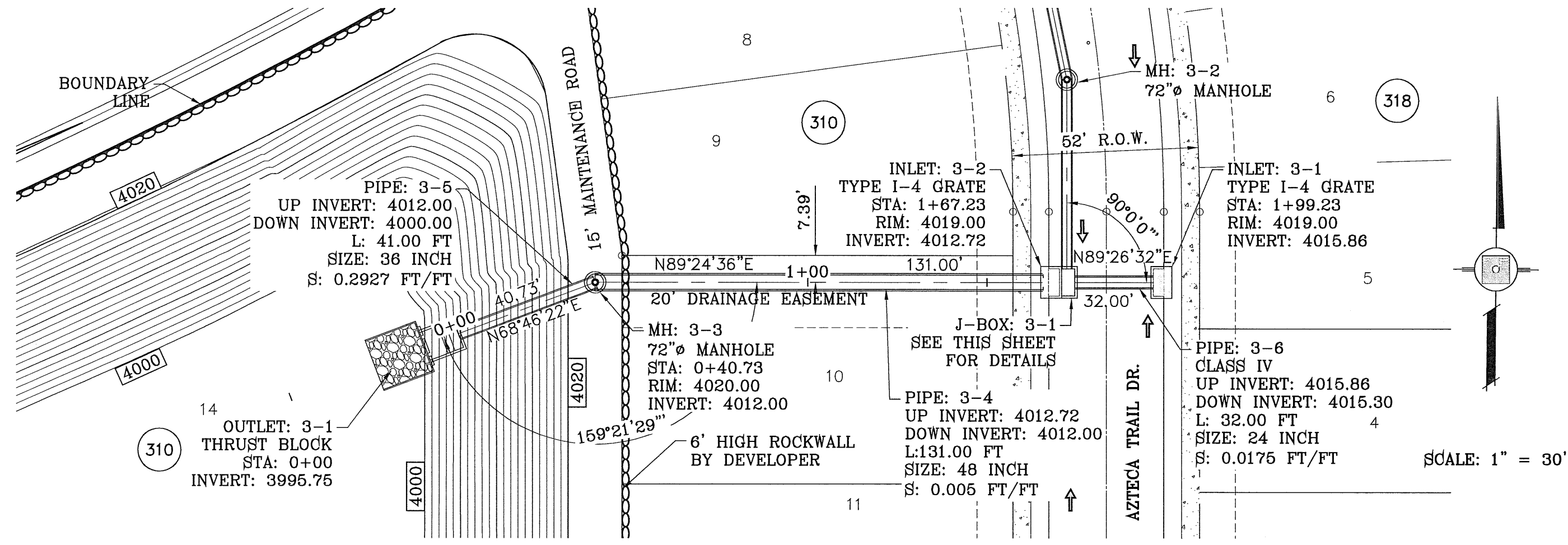
BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.  
ELEVATION 4017.47

REVISIONS

DATE	BY	REVISIONS
10/3/11		REVISIONS AS PER 8/24/11 REDLINES
11/1/11		REVISIONS AS PER 10/19/11 REDLINES

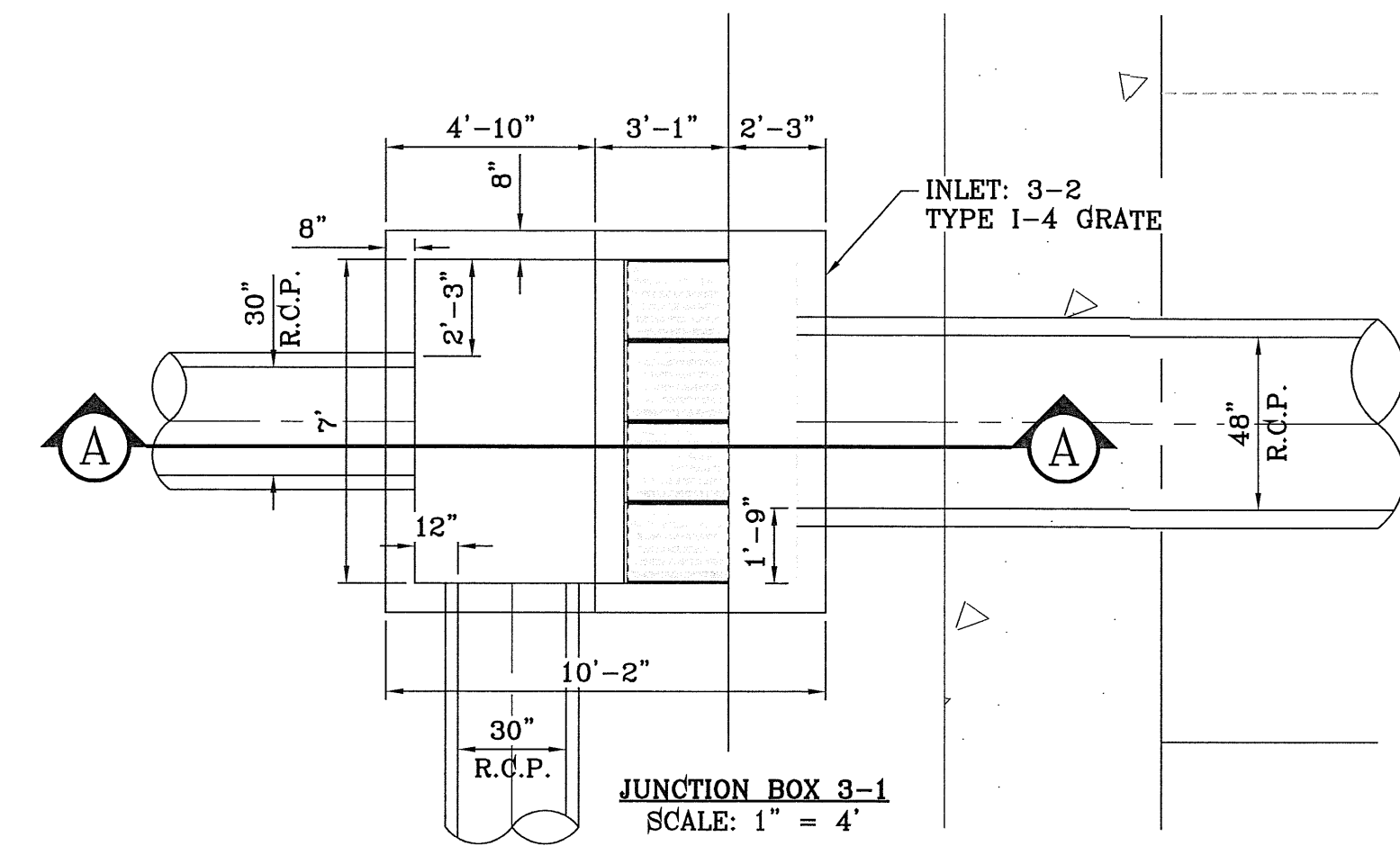
PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 76, TOWNSHIP 2, TEXAS AND PART OF R.F. AT SURVEYS, P. 163-254, P. 163-255, P. 163-256, P. 163-257, P. 163-258, P. 163-259, P. 163-260, P. 163-261, P. 163-262, P. 163-263, P. 163-264, P. 163-265, P. 163-266, P. 163-267, P. 163-268, P. 163-269, P. 163-270, P. 163-271, P. 163-272, P. 163-273, P. 163-274, P. 163-275, P. 163-276, P. 163-277, P. 163-278, P. 163-279, P. 163-280, P. 163-281, P. 163-282, P. 163-283, P. 163-284, P. 163-285, P. 163-286, P. 163-287, P. 163-288, P. 163-289, P. 163-290, P. 163-291, P. 163-292, P. 163-293, P. 163-294, P. 163-295, P. 163-296, P. 163-297, P. 163-298, P. 163-299, P. 163-300, P. 163-301, P. 163-302, P. 163-303, P. 163-304, P. 163-305, P. 163-306, P. 163-307, P. 163-308, P. 163-309, P. 163-310, P. 163-311, P. 163-312, P. 163-313, P. 163-314, P. 163-315, P. 163-316, P. 163-317, P. 163-318, P. 163-319, P. 163-320, P. 163-321, P. 163-322, P. 163-323, P. 163-324, P. 163-325, P. 163-326, P. 163-327, P. 163-328, P. 163-329, P. 163-330, P. 163-331, P. 163-332, P. 163-333, P. 163-334, P. 163-335, P. 163-336, P. 163-337, P. 163-338, P. 163-339, P. 163-340, P. 163-341, P. 163-342, P. 163-343, P. 163-344, P. 163-345, P. 163-346, P. 163-347, P. 163-348, P. 163-349, P. 163-350, P. 163-351, P. 163-352, P. 163-353, P. 163-354, P. 163-355, P. 163-356, P. 163-357, P. 163-358, P. 163-359, P. 163-360, P. 163-361, P. 163-362, P. 163-363, P. 163-364, P. 163-365, P. 163-366, P. 163-367, P. 163-368, P. 163-369, P. 163-370, P. 163-371, P. 163-372, P. 163-373, P. 163-374, P. 163-375, P. 163-376, P. 163-377, P. 163-378, P. 163-379, P. 163-380, P. 163-381, P. 163-382, P. 163-383, P. 163-384, P. 163-385, P. 163-386, P. 163-387, P. 163-388, P. 163-389, P. 163-390, P. 163-391, P. 163-392, P. 163-393, P. 163-394, P. 163-395, P. 163-396, P. 163-397, P. 163-398, P. 163-399, P. 163-400, P. 163-401, P. 163-402, P. 163-403, P. 163-404, P. 163-405, P. 163-406, P. 163-407, P. 163-408, P. 163-409, P. 163-410, P. 163-411, P. 163-412, P. 163-413, P. 163-414, P. 163-415, P. 163-416, P. 163-417, P. 163-418, P. 163-419, P. 163-420, P. 163-421, P. 163-422, P. 163-423, P. 163-424, P. 163-425, P. 163-426, P. 163-427, P. 163-428, P. 163-429, P. 163-430, P. 163-431, P. 163-432, P. 163-433, P. 163-434, P. 163-435, P. 163-436, P. 163-437, P. 163-438, P. 163-439, P. 163-440, P. 163-441, P. 163-442, P. 163-443, P. 163-444, P. 163-445, P. 163-446, P. 163-447, P. 163-448, P. 163-449, P. 163-450, P. 163-451, P. 163-452, P. 163-453, P. 163-454, P. 163-455, P. 163-456, P. 163-457, P. 163-458, P. 163-459, P. 163-460, P. 163-461, P. 163-462, P. 163-463, P. 163-464, P. 163-465, P. 163-466, P. 163-467, P. 163-468, P. 163-469, P. 163-470, P. 163-471, P. 163-472, P. 163-473, P. 163-474, P. 163-475, P. 163-476, P. 163-477, P. 163-478, P. 163-479, P. 163-480, P. 163-481, P. 163-482, P. 163-483, P. 163-484, P. 163-485, P. 163-486, P. 163-487, P. 163-488, P. 163-489, P. 163-490, P. 163-491, P. 163-492, P. 163-493, P. 163-494, P. 163-495, P. 163-496, P. 163-497, P. 163-498, P. 163-499, P. 163-500, P. 163-501, P. 163-502, P. 163-503, P. 163-504, P. 163-505, P. 163-506, P. 163-507, P. 163-508, P. 163-509, P. 163-510, P. 163-511, P. 163-512, P. 163-513, P. 163-514, P. 163-515, P. 163-516, P. 163-517, P. 163-518, P. 163-519, P. 163-520, P. 163-521, P. 163-522, P. 163-523, P. 163-524, P. 163-525, P. 163-526, P. 163-527, P. 163-528, P. 163-529, P. 163-530, P. 163-531, P. 163-532, P. 163-533, P. 163-534, P. 163-535, P. 163-536, P. 163-537, P. 163-538, P. 163-539, P. 163-540, P. 163-541, P. 163-542, P. 163-543, P. 163-544, P. 163-545, P. 163-546, P. 163-547, P. 163-548, P. 163-549, P. 163-550, P. 163-551, P. 163-552, P. 163-553, P. 163-554, P. 163-555, P. 163-556, P. 163-557, P. 163-558, P. 163-559, P. 163-560, P. 163-561, P. 163-562, P. 163-563, P. 163-564, P. 163-565, P. 163-566, P. 163-567, P. 163-568, P. 163-569, P. 163-570, P. 163-571, P. 163-572, P. 163-573, P. 163-574, P. 163-575, P. 163-576, P. 163-577, P. 163-578, P. 163-579, P. 163-580, P. 163-581, P. 163-582, P. 163-583, P. 163-584, P. 163-585, P. 163-586, P. 163-587, P. 163-588, P. 163-589, P. 163-590, P. 163-591, P. 163-592, P. 163-593, P. 163-594, P. 163-595, P. 163-596, P. 163-597, P. 163-598, P. 163-599, P. 163-600, P. 163-601, P. 163-602, P. 163-603, P. 163-604, P. 163-605, P. 163-606, P. 163-607, P. 163-608, P. 163-609, P. 163-610, P. 163-611, P. 163-612, P. 163-613, P. 163-614, P. 163-615, P. 163-616, P. 163-617, P. 163-618, P. 163-619, P. 163-620, P. 163-621, P. 163-622, P. 163-623, P. 163-624, P. 163-625, P. 163-626, P. 163-627, P. 163-628, P. 163-629, P. 163-630, P. 163-631, P. 163-632, P. 163-633, P. 163-634, P. 163-635, P. 163-636, P. 163-637, P. 163-638, P. 163-639, P. 163-640, P. 163-641, P. 163-642, P. 163-643, P. 163-644, P. 163-645, P. 163-646, P. 163-647, P. 163-648, P. 163-649, P. 163-650, P. 163-651, P. 163-652, P. 163-653, P. 163-654, P. 163-655, P. 163-656, P. 163-657, P. 163-658, P. 163-659, P. 163-660, P. 163-661, P. 163-662, P. 163-663, P. 163-664, P. 163-665, P. 163-666, P. 163-667, P. 163-668, P. 163-669, P. 163-670, P. 163-671, P. 163-672, P. 163-673, P. 163-674, P. 163-675, P. 163-676, P. 163-677, P. 163-678, P. 163-679, P. 163-680, P. 163-681, P. 163-682, P. 163-683, P. 163-684, P. 163-685, P. 163-686, P. 163-687, P. 163-688, P. 163-689, P. 163-690, P. 163-691, P. 163-692, P. 163-693, P. 163-694, P. 163-695, P. 163-696, P. 163-697, P. 163-698, P. 163-699, P. 163-700, P. 163-701, P. 163-702, P. 163-703, P. 163-704, P. 163-705, P. 163-706, P. 163-707, P. 163-708, P. 163-709, P. 163-710, P. 163-711, P. 163-712, P. 163-713, P. 163-714, P. 163-715, P. 163-716, P. 163-717, P. 163-718, P. 163-719, P. 163-720, P. 163-721, P. 163-722, P. 163-723, P. 163-724, P. 163-725, P. 163-726, P. 163-727, P. 163-728, P. 163-729, P. 163-730, P. 163-731, P. 163-732, P. 163-733, P. 163-734, P. 163-735, P. 163-736, P. 163-737, P. 163-738, P. 163-739, P. 163-740, P. 163-741, P. 163-742, P. 163-743, P. 163-744, P. 163-745, P. 163-746, P. 163-747, P. 163-748, P. 163-749, P. 163-750, P. 163-751, P. 163-752, P. 163-753, P. 163-754, P. 163-755, P. 163-756, P. 163-757, P. 163-758, P. 163-759, P. 163-760, P. 163-761, P. 163-762, P. 163-763, P. 163-764, P. 163-765, P. 163-766, P. 163-767, P. 163-768, P. 163-769, P. 163-770, P. 163-771, P. 163-772, P. 163-773, P. 163-774, P. 163-775, P. 163-776, P. 163-777, P. 163-778, P. 163-779, P. 163-780, P. 163-781, P. 163-782, P. 163-783, P. 163-784, P. 163-785, P. 163-786, P. 163-787, P. 163-788, P. 163-789, P. 163-790, P. 163-791, P. 163-792, P. 163-793, P. 163-794, P. 163-795, P. 163-796, P. 163-797, P. 163-798, P. 163-799, P. 163-800, P. 163-801, P. 163-802, P. 163-803, P. 163-804, P. 163-805, P. 163-806, P. 163-807, P. 163-808, P. 163-809, P. 163-810, P. 163-811, P. 163-812, P. 163-813, P. 163-814, P. 163-815, P. 163-816, P. 163-817, P. 163-818, P. 163-819, P. 163-820, P. 163-821, P. 163-822, P. 163-823, P. 163-824, P. 163-825, P. 163-826, P. 163-827, P. 163-828, P. 163-829, P. 163-830, P. 163-831, P. 163-832, P. 163-833, P. 163-834, P. 163-835, P. 163-836, P. 163-837, P. 163-838, P. 163-839, P. 163-840, P. 163-841, P. 163-842, P. 163-843, P. 163-844, P. 163-845, P. 163-846, P. 163-847, P. 163-848, P. 163-849, P. 163-850, P. 163-851, P. 163-852, P. 163-853, P. 163-854, P. 163-855, P. 163-856, P. 163-857, P. 163-858, P. 163-859, P. 163-860, P. 163-861, P. 163-862, P. 163-863, P. 163-864, P. 163-865, P. 163-866, P. 163-867, P. 163-868, P. 163-869, P. 163-870, P. 163-871, P. 163-872, P. 163-873, P. 163-874, P. 163-875, P. 163-876, P. 163-877, P. 163-878, P. 163-879, P. 163-880, P. 163-881, P. 163-882, P. 163-883, P. 163-884, P. 163-885, P. 163-886, P. 163-887, P. 163-888, P. 163-889, P. 163-890, P. 163-891, P. 163-892, P. 163-893, P. 163-894, P. 163-895, P. 163-896, P. 163-897, P. 163-898, P. 163-899, P. 163-900, P. 163-901, P. 163-902, P. 163-903, P. 163-904, P. 163-905, P. 163-906, P. 163-907, P. 163-908, P. 163-909, P. 163-910, P. 163-911, P. 163-912, P. 163-913, P. 163-914, P. 163-915, P. 163-916, P. 163-917, P. 163-918, P. 163-919, P. 163-920, P. 163-921, P. 163-922, P. 163-923, P. 163-924, P. 163-925, P. 163-926, P. 163-927, P. 163-928, P. 163-929, P. 163-930, P. 163-931, P. 163-932, P. 163-933, P. 163-934, P. 163-935, P. 163-936, P. 163-937, P. 163-938, P. 163-939, P. 163-940, P. 163-941, P. 163-942, P. 163-943, P. 163-944, P. 163-945, P. 163-946, P. 163-947, P. 163-948, P. 163-949, P. 163-950, P. 163-951, P. 163-952, P. 163-953, P. 163-954, P. 163-955, P. 163-956, P. 163-957, P. 163-958, P. 163-959, P. 163-960, P. 163-961, P. 163-962, P. 163-963, P. 163-964, P. 163-965, P. 163-966, P. 163-967, P. 163-968, P. 163-969, P. 163-970, P. 163-971, P. 163-972, P. 163-973, P. 163-974, P. 163-975, P. 163-976, P. 163-977, P. 163-978, P. 163-979, P. 163-980, P. 163-981, P. 163-982, P. 163-983, P. 163-984, P. 163-985, P. 163-986, P. 163-987, P. 163-988, P. 163-989, P. 163-990, P. 163-991, P. 163-992, P. 163-993, P. 163-994, P. 163-995, P. 163-996, P. 163-997, P. 163-998, P. 163-999, P. 163-1000, P. 163-1001, P. 163-1002, P. 163-1003, P. 163-1004, P. 163-1005, P. 163-1006, P. 163-1007, P. 163-1008, P. 163-1009, P. 163-1010, P. 163-1011, P. 163-1012, P. 163-1013, P. 163-1014, P. 163-1015, P. 163-1016, P. 163-1017, P. 163-1018, P. 163-1019, P. 163-1020, P. 163-1021, P. 163-1022, P. 163-1023, P. 163-1024, P. 163-1025, P. 163-1026, P. 163-1027, P. 163-1028, P. 163-1029, P. 163-1030, P. 163-1031, P. 163-1032, P. 163-1033, P. 163-1034, P. 163-1035, P. 163-1036, P. 163-1037, P. 163-1038, P. 163-1039, P. 163-1040, P. 163-1041, P. 163-1042, P. 163-1043, P. 163-1044, P. 163-1045, P. 163-1046, P. 163-1047, P. 163-1048, P. 163-1049, P. 163-1050, P. 163-1051, P. 163-1052, P. 163-1053, P. 163-1054, P. 163-1055, P. 163-1056, P. 163-1057, P. 163-1058, P. 163-1059, P. 163-1060, P. 163-1061, P. 163-1062, P.



STRUCTURE 3-PLAN VIEW  
SCALE: 1" = 30'

PIPE	SECTION SIZE (in)	LENGTH (ft)	CONSTRUCTED SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (fps)	DOWN STREAM GOUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
3-1	30	301.00	0.005	16.58	28.95	3.38	4020.02	4017.25	4013.50	4021.58	4017.74	4015.00
3-2	30	99.00	0.005	16.58	29.15	3.38	4019.42	4016.49	4013.00	4020.02	4016.65	4013.50
3-3	30	56.00	0.005	16.58	29.00	3.38	4019.00	4015.80	4012.72	4019.42	4015.89	4013.00
3-4	48	131.00	0.005	88.14	106.49	8.45	4020.00	4015.43	4012.00	4019.00	4015.57	4012.72
3-5	36	41.00	0.293	88.14	360.82	12.61	4020.00	4013.89	4000.00	4020.00	4014.83	4012.00
3-6	24	32.00	0.018	29.00	29.92	9.98	4019.00	4015.80	4015.30	4019.00	4017.71	4015.86



JUNCTION BOX 3-1  
SCALE: 1" = 4'

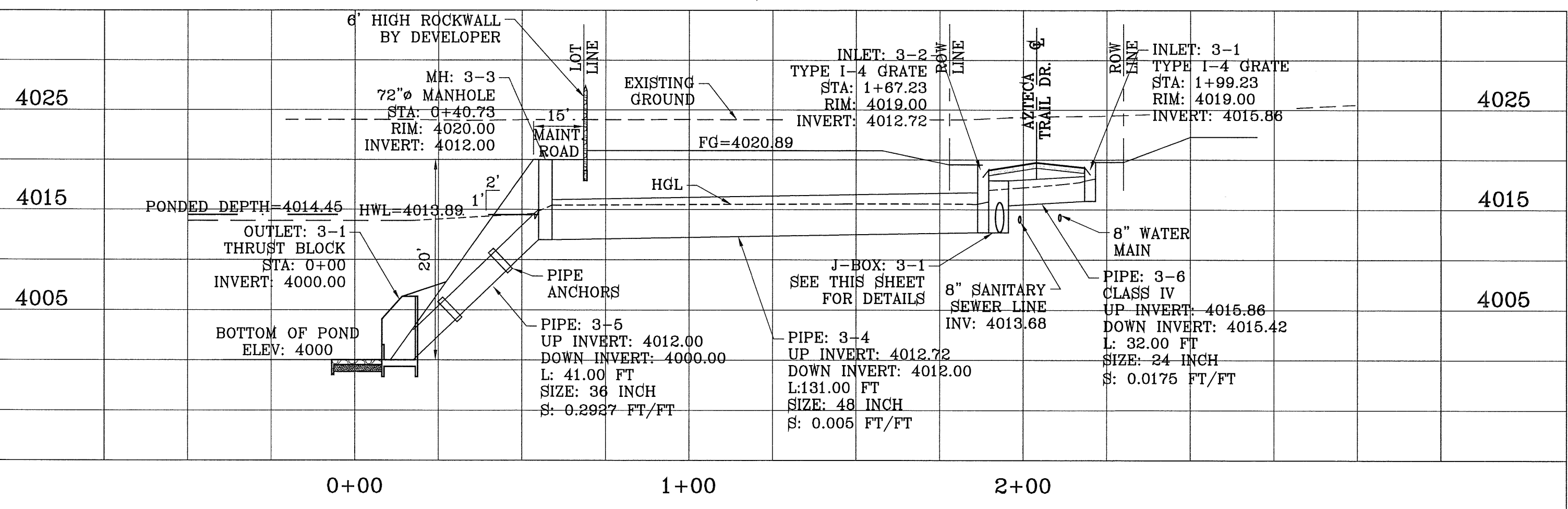
INLET DATA

INLET No.	INLET TYPE	No. GRATES	Qd cfs	Qc cfs
3-1	I	4	29.00	43.36
3-2	I	4	42.56	43.36
3-3	II MOD.	12	16.58	92.64

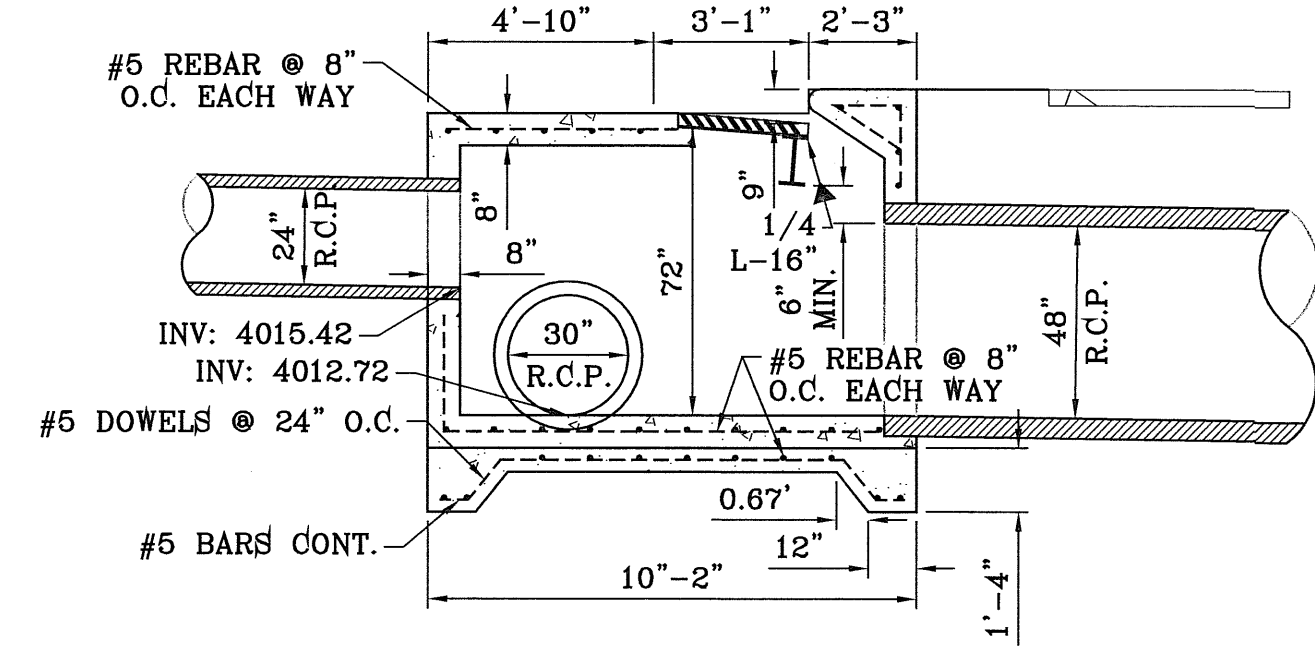
CLOGGING FACTOR IS EQUAL TO 2/3

ALL PIPES ARE R.C.P. CLASS III UNLESS OTHERWISE NOTED.

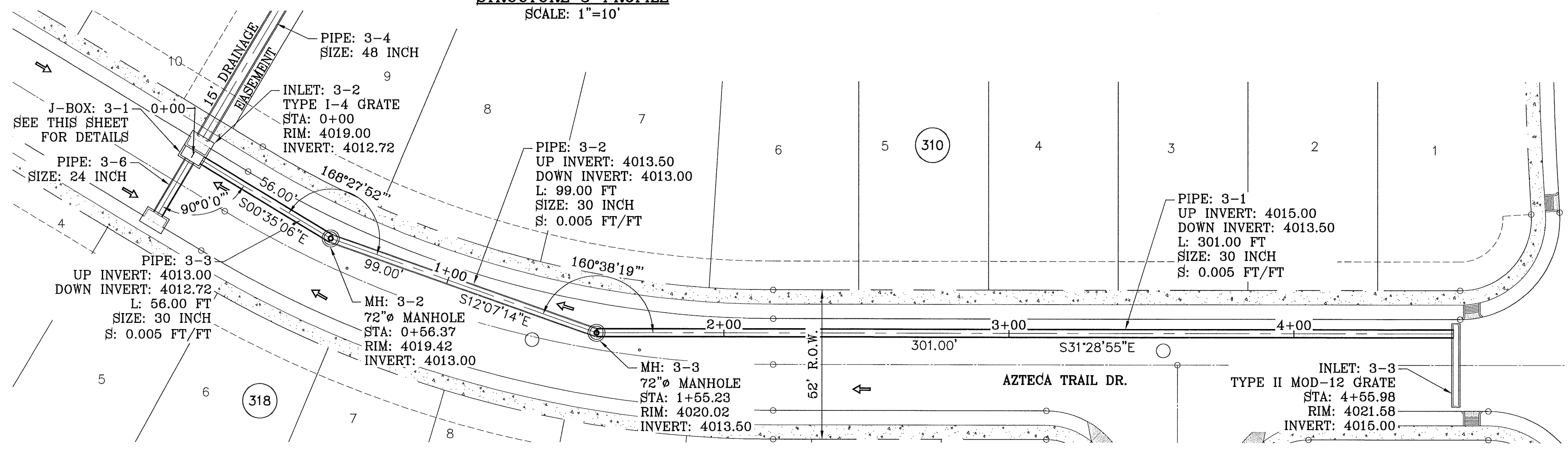
- CONSTRUCTION NOTES:
- ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
  - MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
  - 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1657.
  - REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.



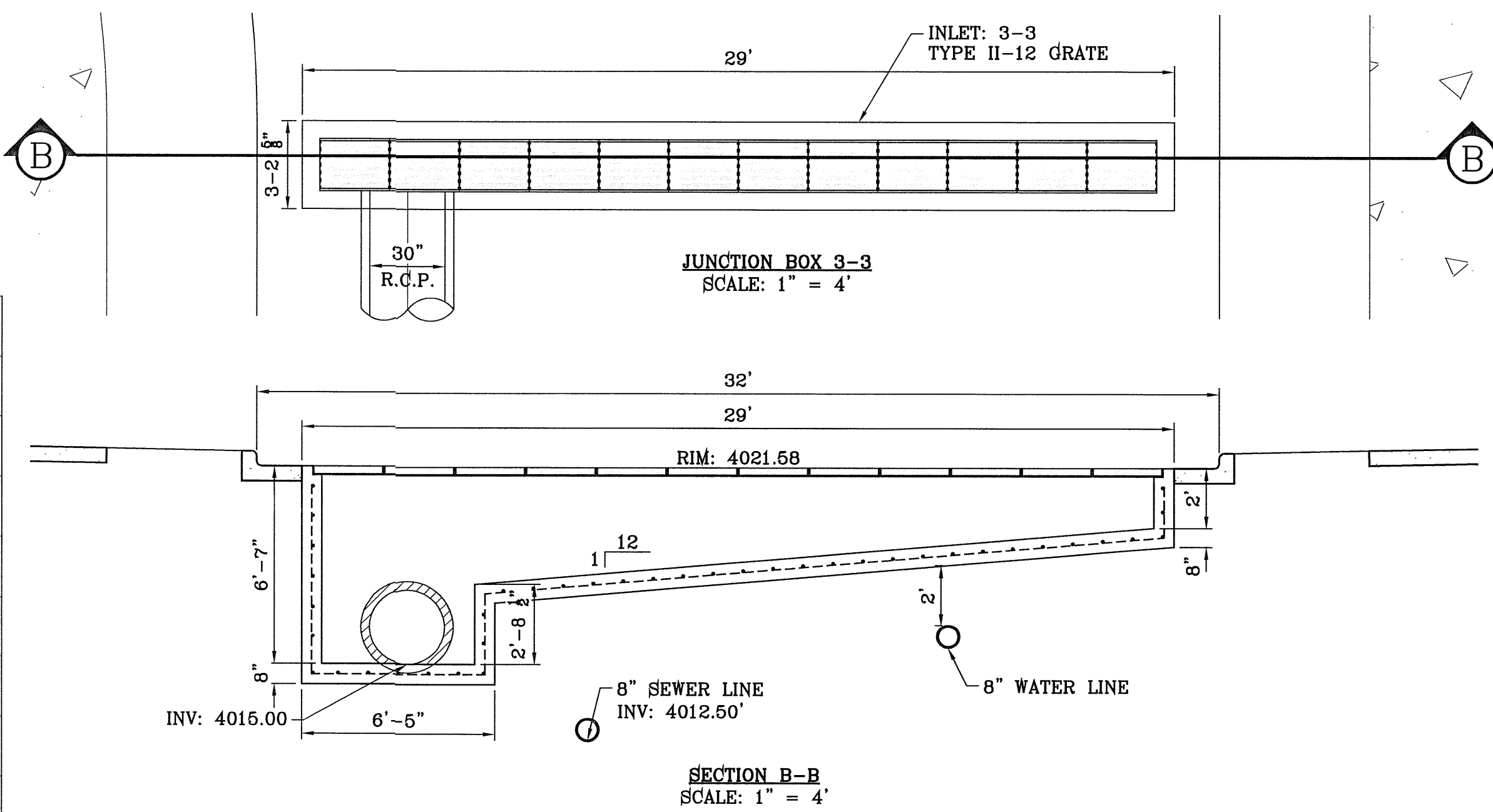
STRUCTURE 3-PROFILE  
SCALE: 1" = 10'



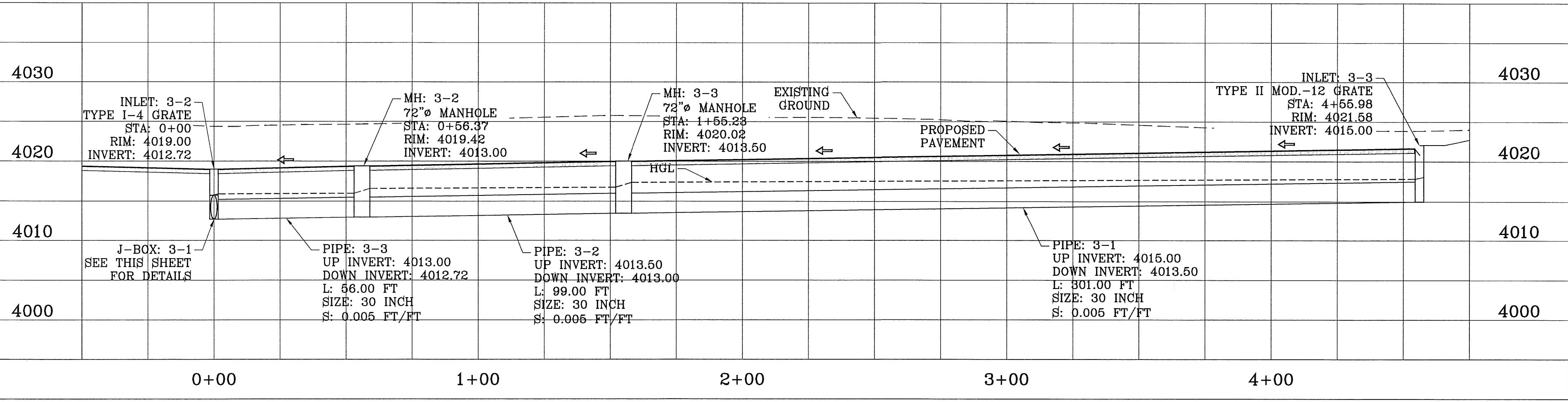
SECTION A-A  
SCALE: 1" = 4'



STRUCTURE 3-PLAN VIEW  
SCALE: 1" = 30'



SECTION B-B  
SCALE: 1" = 4'



STRUCTURE 3-PROFILE  
SCALE: 1" = 10'

BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.  
ELEVATION 4017.47  
DATE: 10/29/11  
REVISIONS AS PER 8/24/11 REDLINES  
DATE: 11/1/11  
REVISIONS AS PER 10/19/11 REDLINES

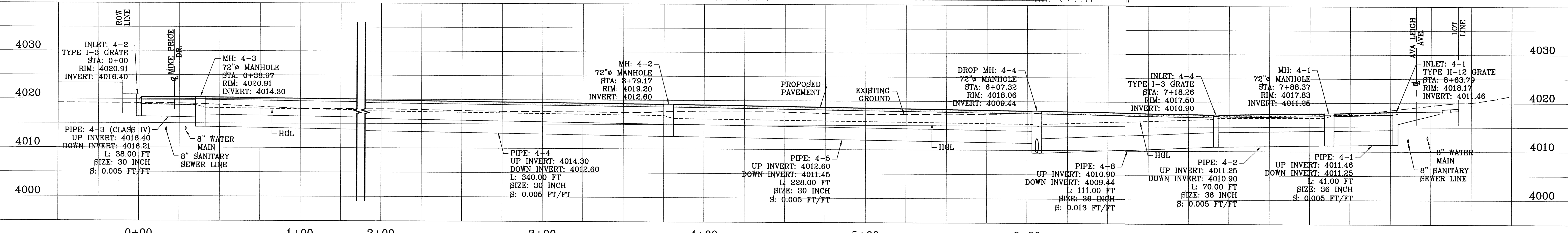
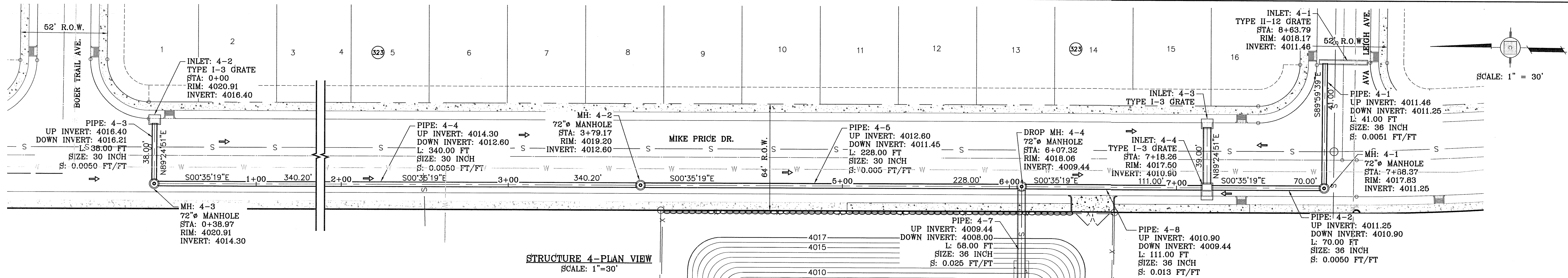
PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**  
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY Co. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254± ACRES

SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: BFG/OM  
CHECKED BY: YC  
JOB NO.: 1110-18

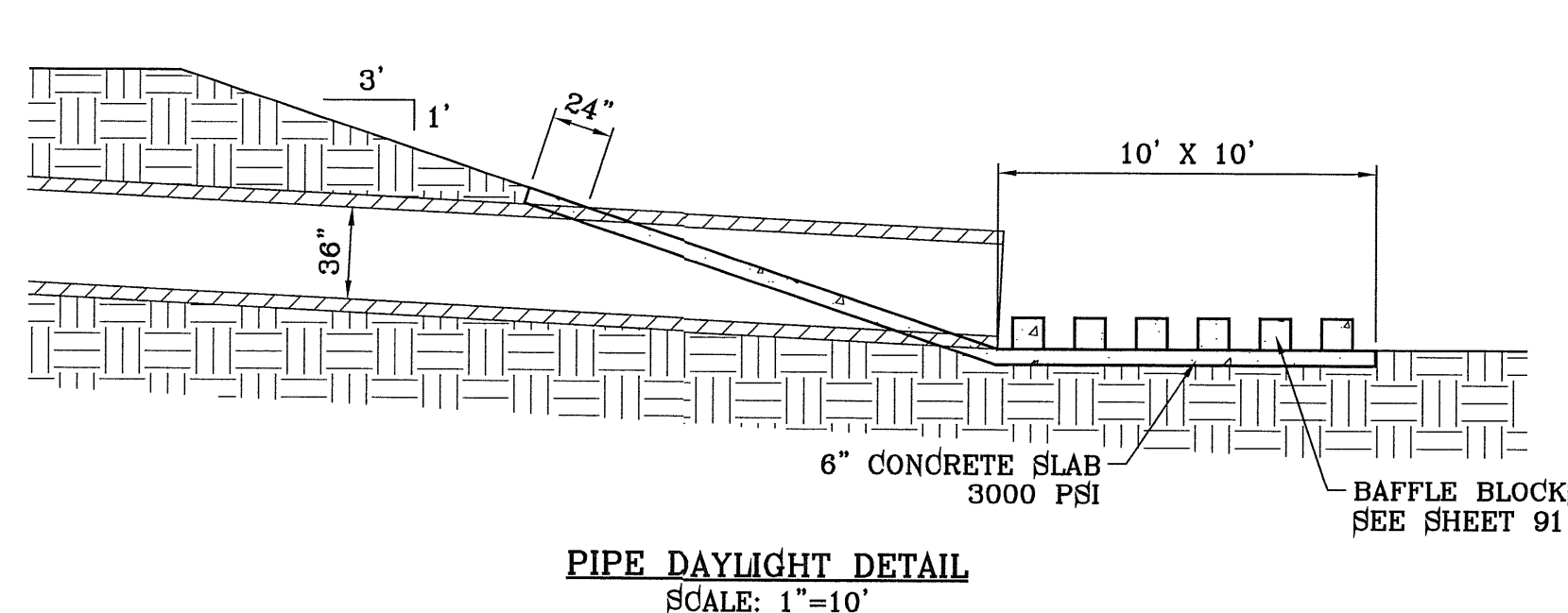
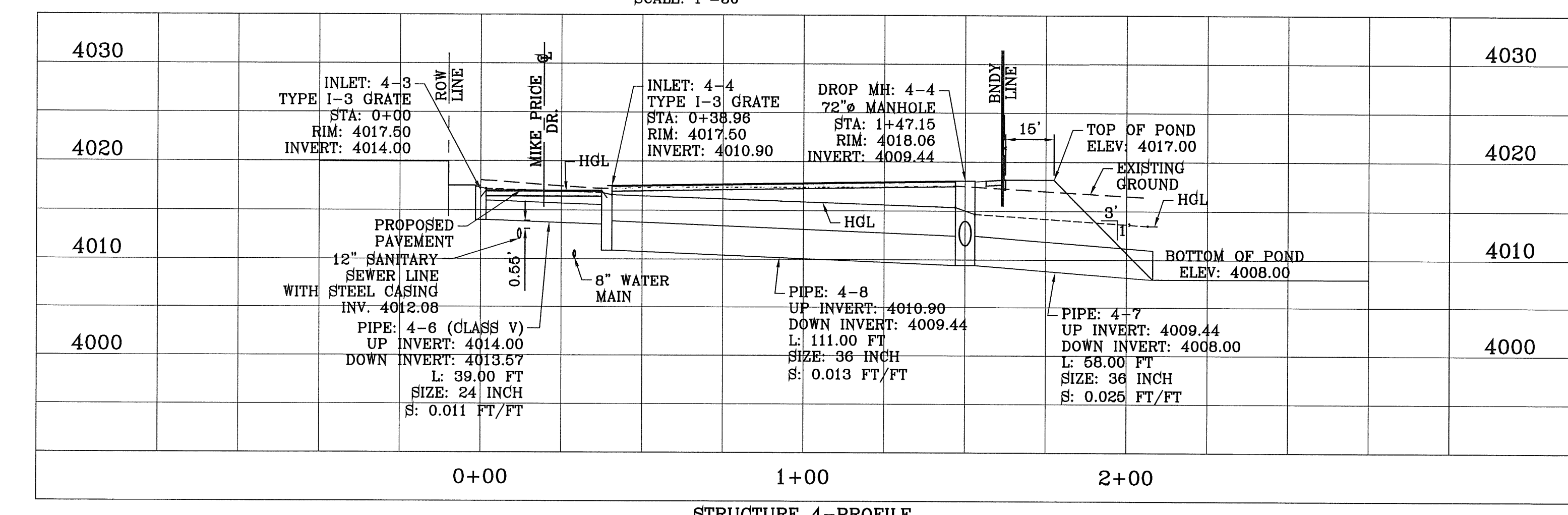
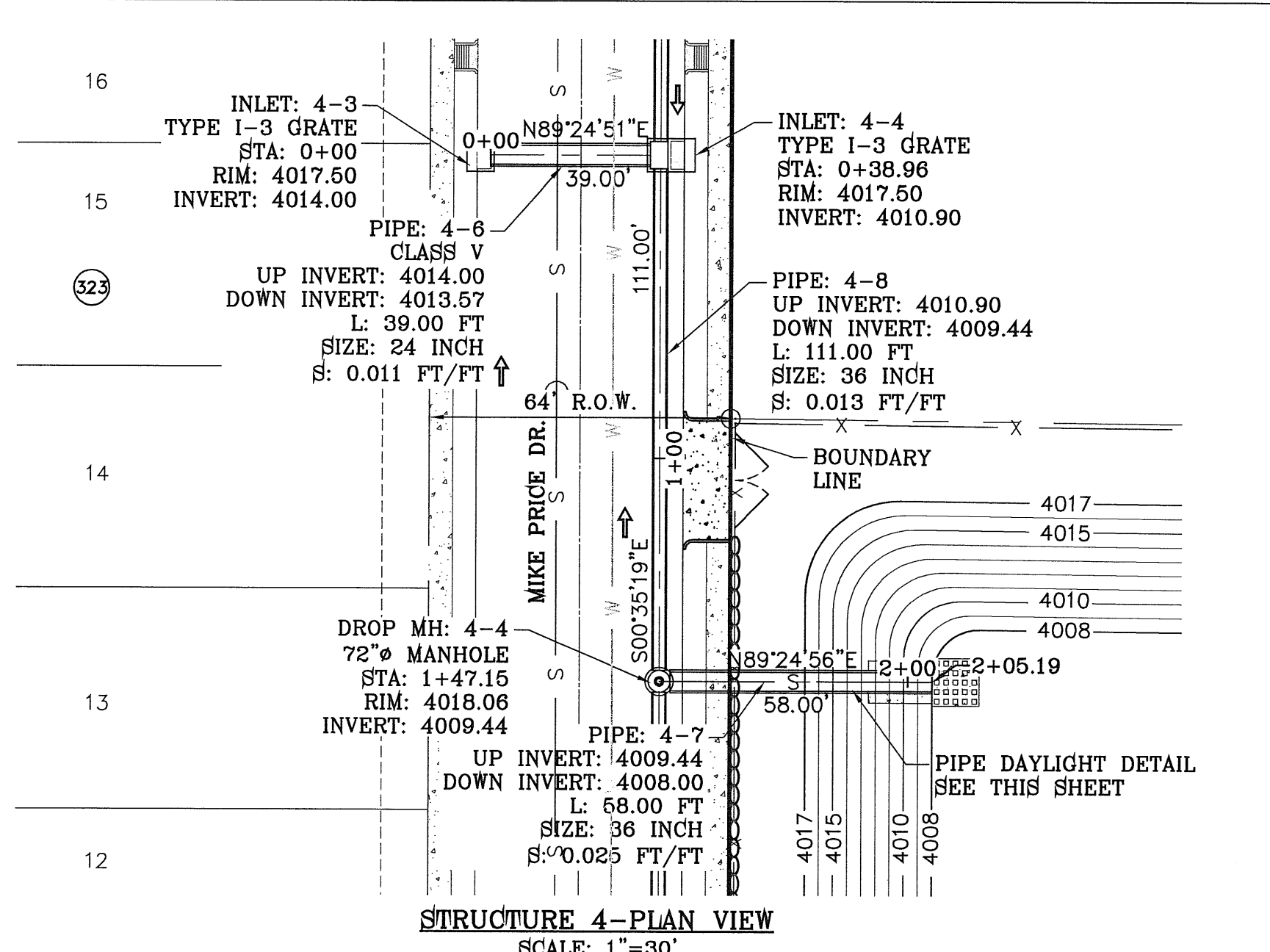
ENGINEER'S SEAL  
CONDE INC.  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE. 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**DRAINAGE STRUCTURES**

SHT 92 OF 112



PIPE	SECTION	LENGTH (ft)	SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (ft/s)	DOWN STREAM GROUND (ft)	DOWN STREAM STREAM HGL	DOWN STREAM INVERT	UP STREAM GROUND	UP STREAM HGL	UP STREAM INVERT
PIPE 4-1	36 inch	41.00	0.005	26.83	47.73	3.80	4017.83	4017.52	4011.25	4018.17	4017.59	4011.46
PIPE 4-2	36 inch	70.00	0.005	26.83	47.16	3.80	4017.50	4016.81	4010.90	4017.83	4016.92	4011.25
PIPE 4-3	30 inch	38.00	0.005	25.76	29.00	5.25	4020.91	4018.81	4016.21	4020.91	4018.96	4016.40
PIPE 4-4	30 inch	340.00	0.005	25.76	29.00	5.25	4019.20	4016.87	4012.60	4020.91	4018.21	4014.30
PIPE 4-5	30 inch	228.00	0.005	25.76	29.13	5.25	4018.06	4015.37	4011.45	4019.20	4016.27	4012.60
PIPE 4-6	24 inch	39.00	0.011	21.43	23.75	6.82	4017.50	4016.81	4013.57	4017.50	4017.16	4014.00
PIPE 4-7	36 inch	58.00	0.025	95.45	104.93	13.50	4017.00	4013.48	4008.00	4018.06	4014.67	4009.44
PIPE 4-8	36 inch	111.00	0.013	69.69	76.61	9.86	4018.06	4015.37	4009.44	4017.50	4016.58	4010.90



INLET No.	INLET TYPE	No. GRATES	Qd cfs	Qc cfs
4-1	II	12	26.83	130.8
4-2	I	3	25.76	32.52
4-3	I	3	21.43	32.52
4-4	I	3	21.43	32.52

CLOGGING FACTOR IS EQUAL TO 2/3

ALL PIPES ARE R.C.P. CLASS III UNLESS OTHERWISE NOTED.

- CONSTRUCTION NOTES:**
- ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
  - MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
  - 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
  - REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.

BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN.  
ELEVATION 4017.47

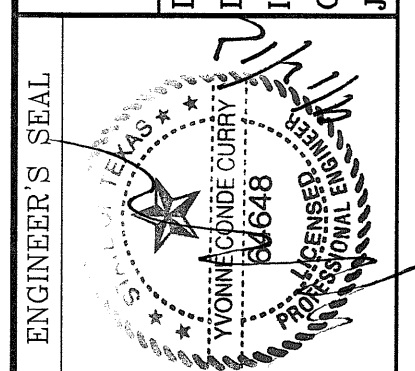
REVISIONS  
DATE 10/3/11  
BY O.M.  
REVISIONS AS PER 8/24/11 REDLINES  
DATE 11/1/11  
BY O.M.  
REVISIONS AS PER 10/19/11 REDLINES

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 166.264± ACRES

SCALES  
HORIZ: #####  
VERT: 1" = 10'

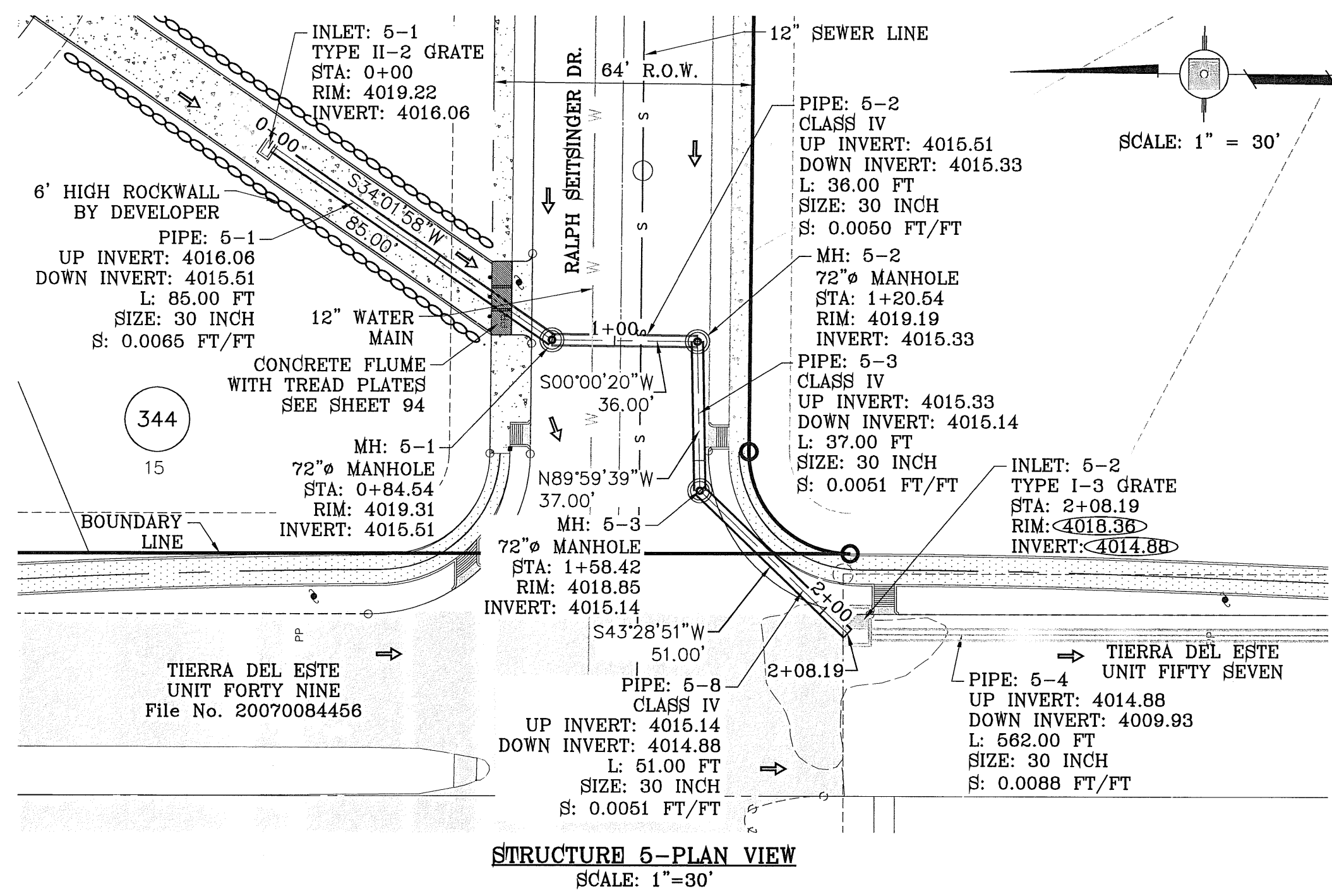
DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: BFC/OM  
CHECKED BY: YC  
JOB NO.: 1110-18



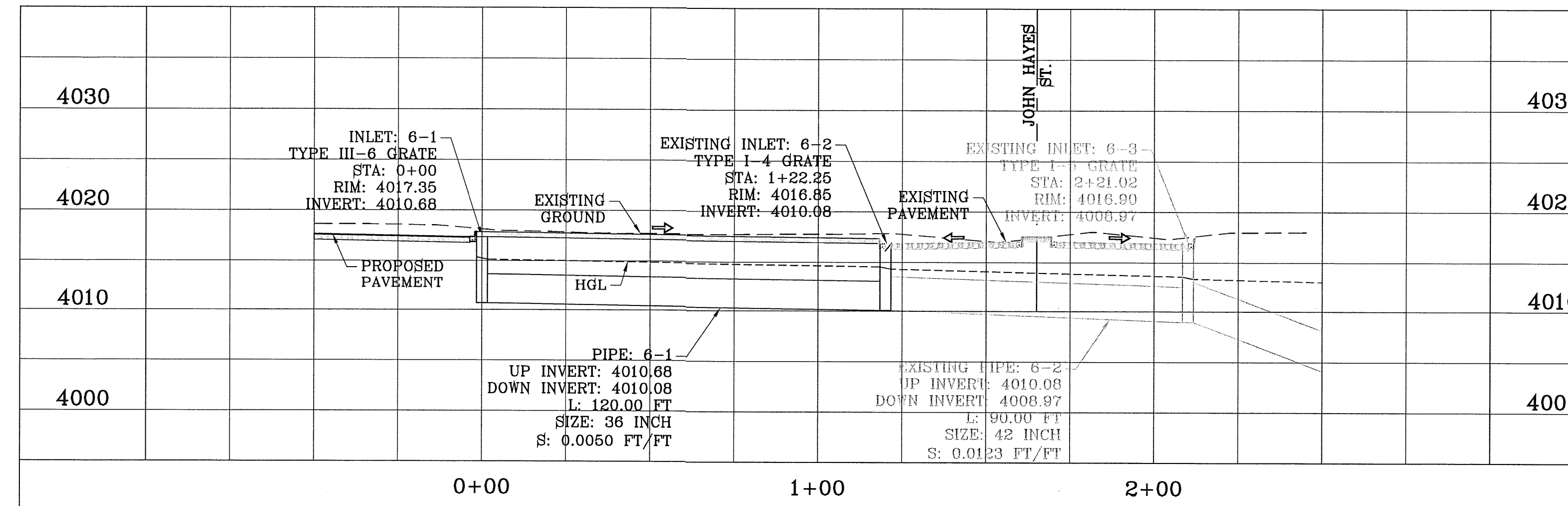
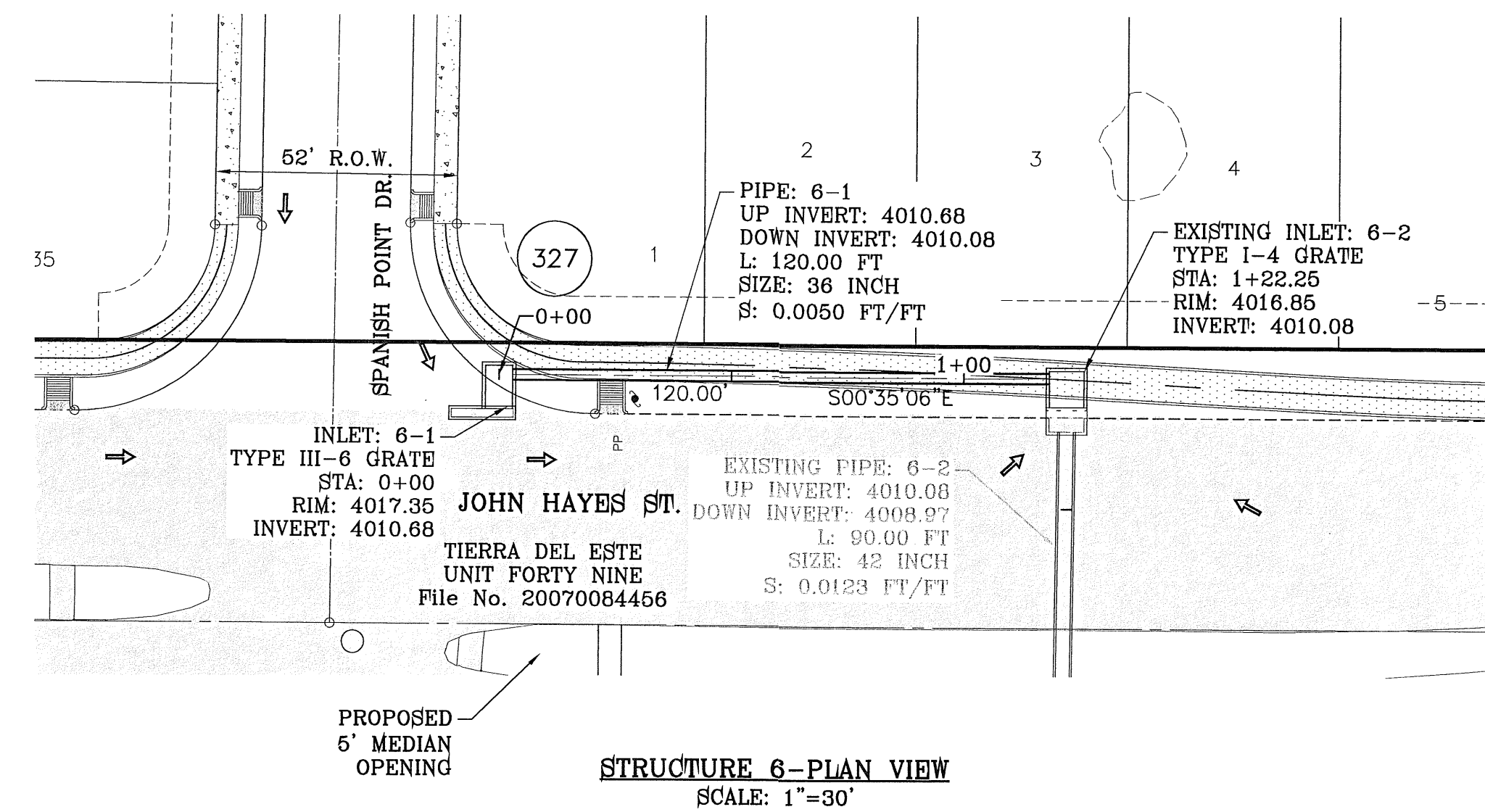
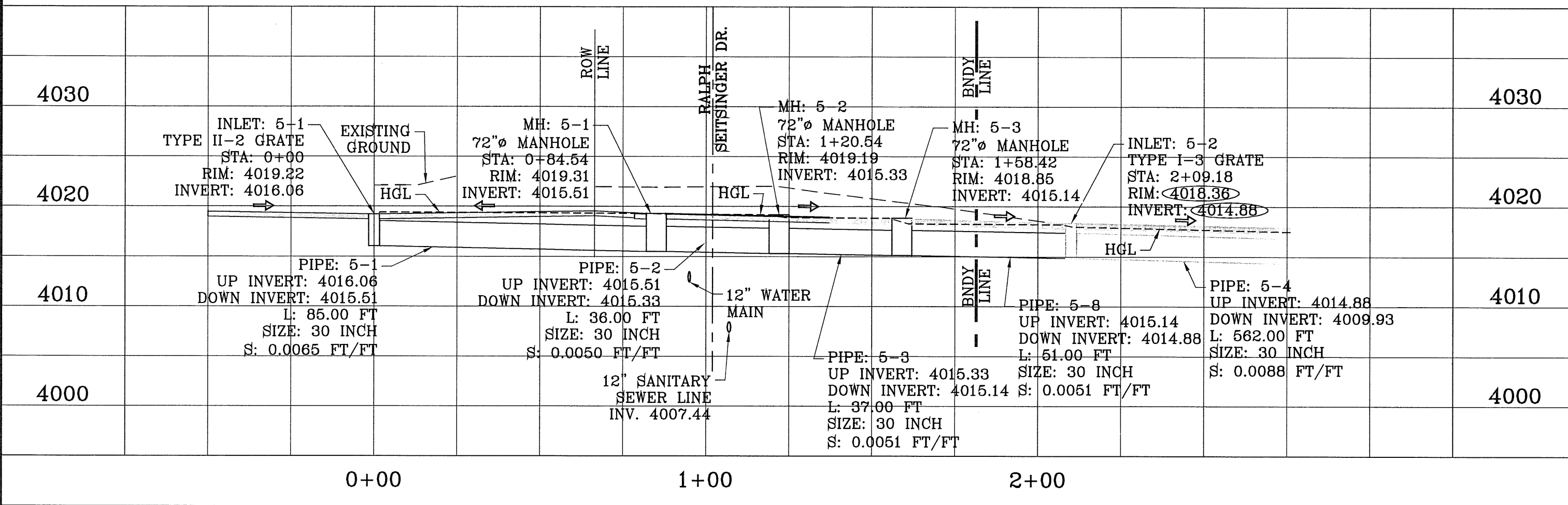
**CONDE INC.**  
ENGINEERING / PLANNING  
SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

SHEET TITLE  
**DRAINAGE STRUCTURE 4**





PIPE	SECTION SIZE (in)	LENGTH (ft)	CONSTRUCTED SLOPE (ft/ft)	DISCHARGE (cfs)	CAPACITY (cfs)	AVERAGE VELOCITY (fps)	DOWN STREAM GROUND	DOWN STREAM HGL	DOWN STREAM INVERT	UPSTREAM GROUND	UPSTREAM HGL	UPSTREAM INVERT
5-1	30	85.00	0.005	15.00	32.99	3.06	4019.31	4019.31	4015.51	4019.22	4019.22	4016.06
5-2	30	36.00	0.005	15.00	29.00	3.06	4019.19	4019.07	4015.33	4019.31	4019.12	4015.51
5-3	30	37.00	0.005	15.00	29.39	3.06	4018.85	4018.22	4015.14	4019.19	4018.27	4015.33
5-4	30	562.00	0.009	30.00	38.49	6.11	4014.42	4014.42	4009.93	4018.36	4017.43	4014.88
5-5	36	82.00	0.009	63.00	64.63	8.91	4014.11	4013.67	4009.16	4014.42	4014.40	4009.93
5-6	36	19.00	0.095	91.00	205.28	12.87	4015.66	4013.09	4007.36	4014.11	4013.44	4009.16
5-7	30	32.00	0.401	91.00	259.81	18.54	4015.00	4010.91	3994.52	4015.66	4012.49	4007.36
5-8	30	51.00	0.005	15.00	29.28	3.06	4018.36	4017.66	4014.88	4018.85	4017.72	4015.14
6-1	36	120.00	0.005	46.29	47.16	6.55	4016.85	4014.56	4010.08	4017.35	4015.14	4010.68
6-2	42	90.00	0.012	90.15	111.73	9.37	4016.90	4013.60	4008.97	4016.85	4014.33	4010.08
6-3	48	97.00	0.123	136.38	502.88	10.85	4017.00	4012.50	3997.08	4016.90	4013.37	4008.97



INLET No.	INLET TYPE	No. GRATES	Qd cfs	Qc cfs
5-1	II	2	15.00	15.44
5-2	I	3	15.00	32.52
6-1	III	6	46.29	46.32
6-2	I	4	43.86	43.36

CLOGGING FACTOR IS EQUAL TO 2/3

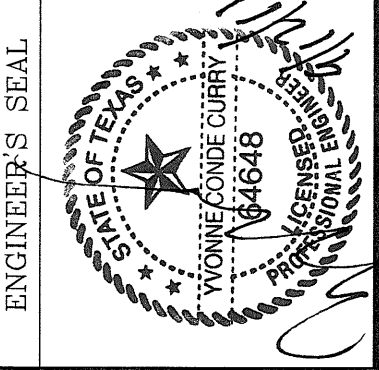
- CONSTRUCTION NOTES:**
- ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
  - MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
  - 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
  - REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.

ALL PIPES ARE R.C.P. CLASS III UNLESS OTHERWISE NOTED.

BENCHMARK  
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT RD. ELEVATION 4017.47  
DATE 10/9/11  
REVISIONS AS PER 8/24/11 REDLINES  
BY O.M.  
11/1/11 REVISIONS AS PER 10/19/11 REDLINES  
O.M.

PROJECT NAME  
**TIERRA DEL ESTE UNIT SIXTY SEVEN**  
BEING PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY COMPANY SURVEY, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 166,254± ACRES

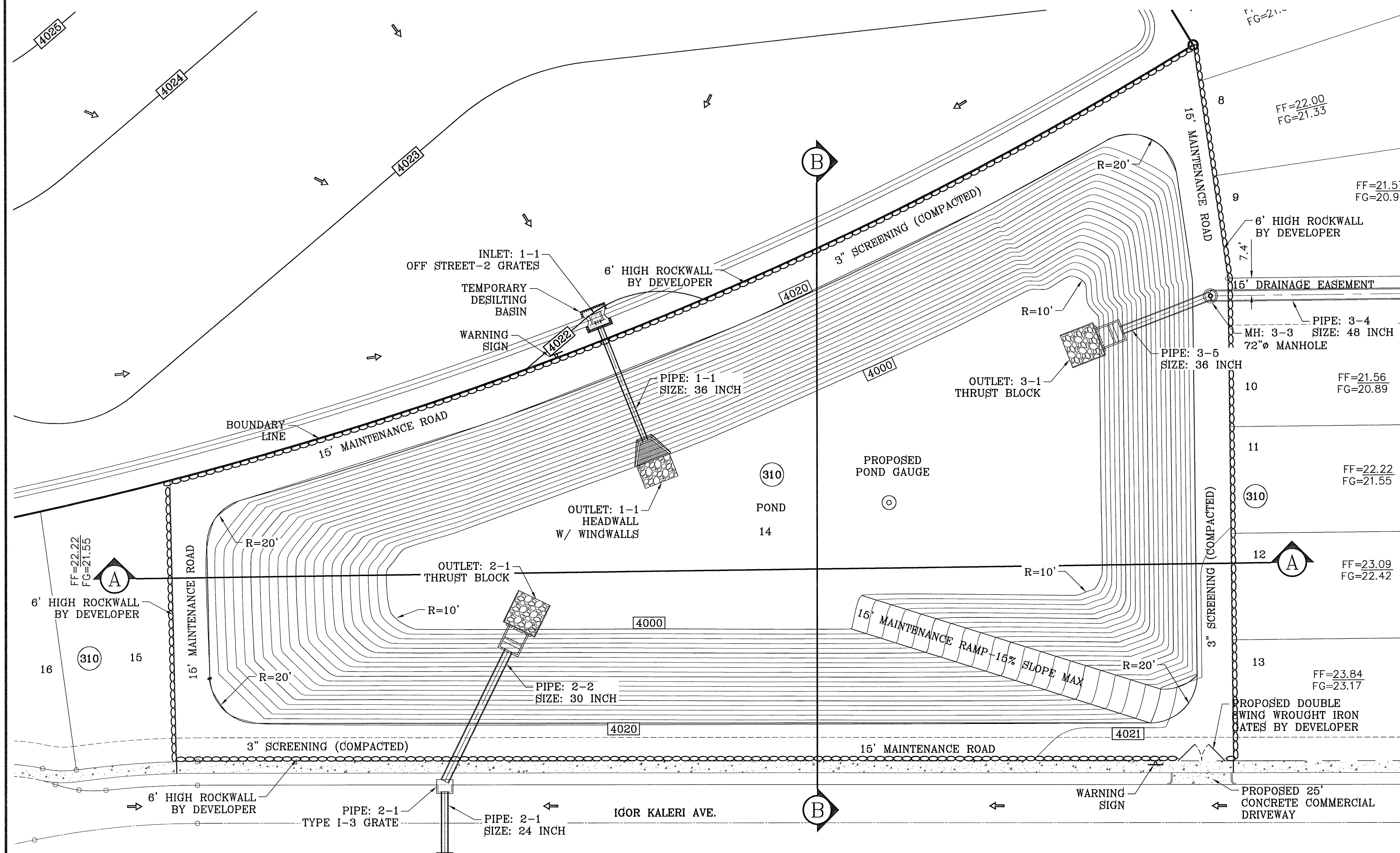
SCALE  
HORIZ: 1" = 30'  
VERT: 1" = 10'  
DATE: MAY 2012  
DESIGN BY: YC  
INITIATED BY: BRD/OM  
CHECKED BY: YC  
JOB NO.: 1110-18



**CONDE INC.**  
ENGINEERING / PLANNING SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286



SHEET TITLE  
**DRAINAGE STRUCTURE 5 & 6**



**WATERSHED-POND**

$$Q = \frac{A \cdot R \cdot C}{12} = \text{AC-FT}$$

POND CALC.  
 $Q = \text{ACR}/12$   
 A = TOTAL RUNOFF IN AC/FT. (100%)  
 R = RAINFALL IN INCHES C = RUNOFF FACTOR

RESIDENTIAL AND POND	$\frac{53.74(4)0.60}{12}$	= 10.75 ac-ft
FUTURE COMM.	$\frac{5.74(4)0.95}{12}$	= 1.82 ac-ft
<b>TOTAL</b>		<b>12.57 ac-ft</b>

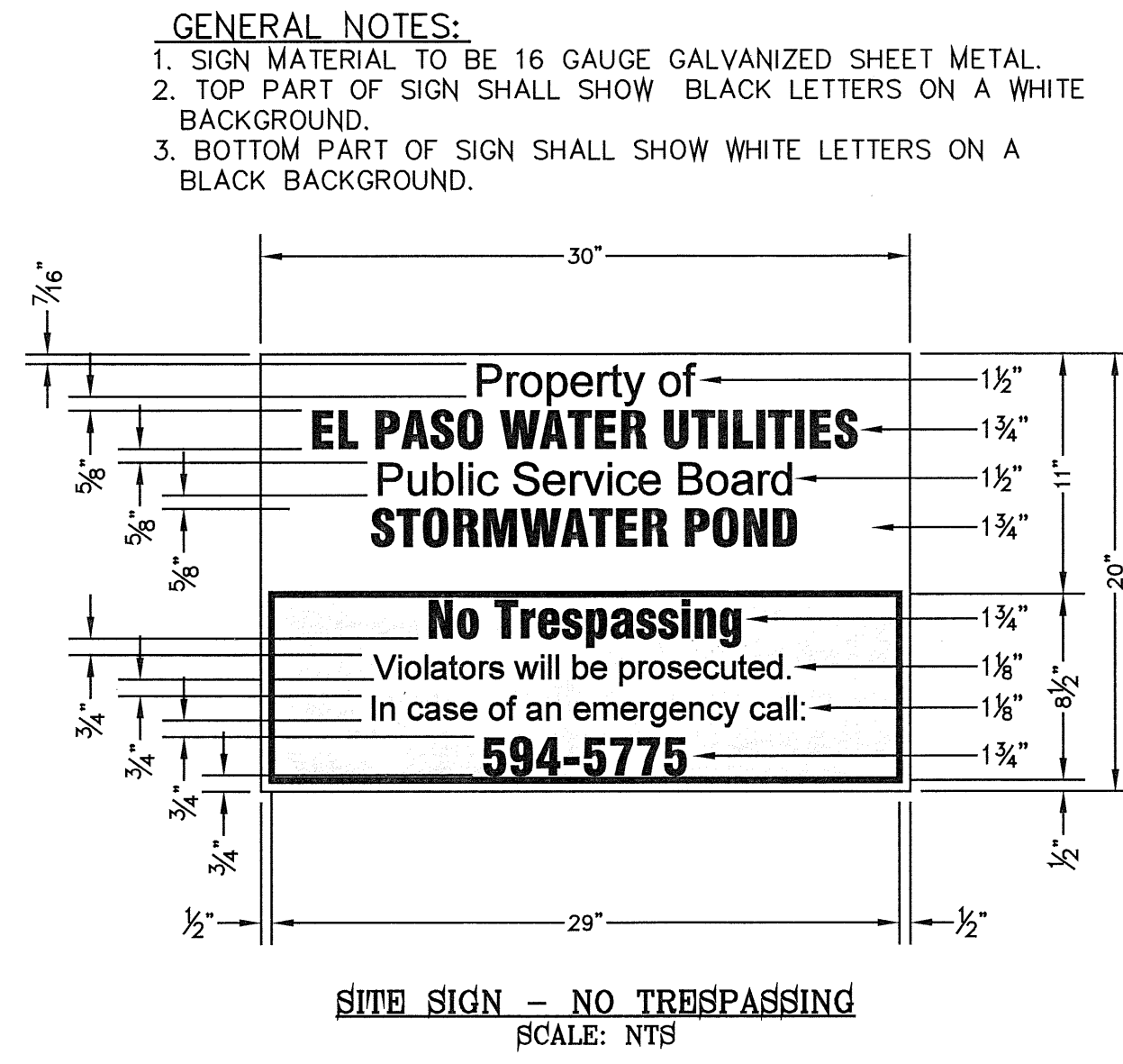
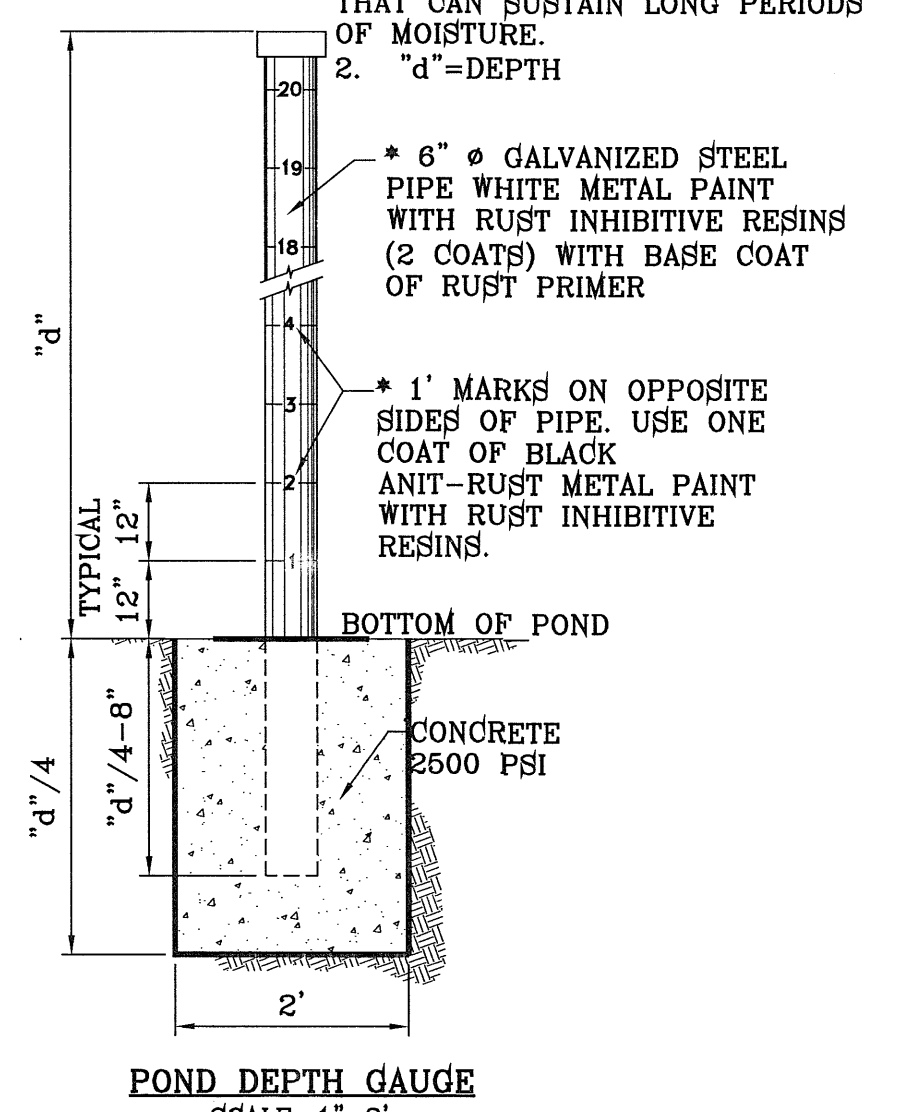
**SILT & DEBRIS = 0.71 ac-ft**

Qreq (TOTAL) = 13.28  
 Qcap (TOTAL) = 21.29

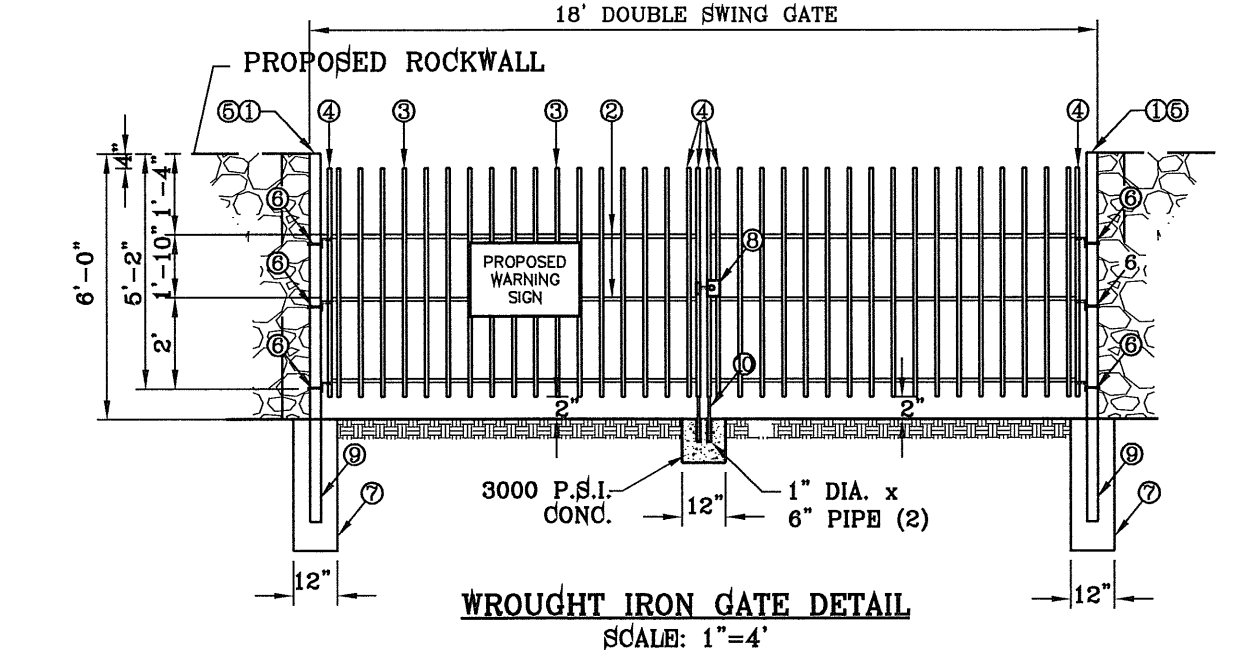
100 YEAR HW ELEVATION = 4013.89  
 100 YEAR PONDED DEPTH = 4014.45

ELEVATION FT	AREA SQ-FT	CONIC VOL. AC-FT	VOLUME CAP. AC-FT
4020	70434.67	1.58	21.29
4019	67389.98	1.52	19.70
4018	64778.73	1.46	18.19
4017	62214.38	1.40	16.73
4016	59696.72	1.34	15.33
4015	57225.71	1.29	13.99
4014	54801.39	1.23	12.70
4013	52423.63	1.18	11.47
4012	50092.52	1.12	10.29
4011	47807.97	1.07	9.17
4010	45569.99	1.02	8.10
4009	43375.89	0.97	7.08
4008	41228.95	0.92	6.11
4007	39129.69	0.87	5.18
4006	37077.90	0.83	4.31
4005	35073.30	0.78	3.48
4004	33116.88	0.74	2.70
4003	31207.51	0.70	1.96
4002	29345.56	0.65	1.26
4001	27530.73	0.61	0.61
4000	25763.28	0.00	0.00

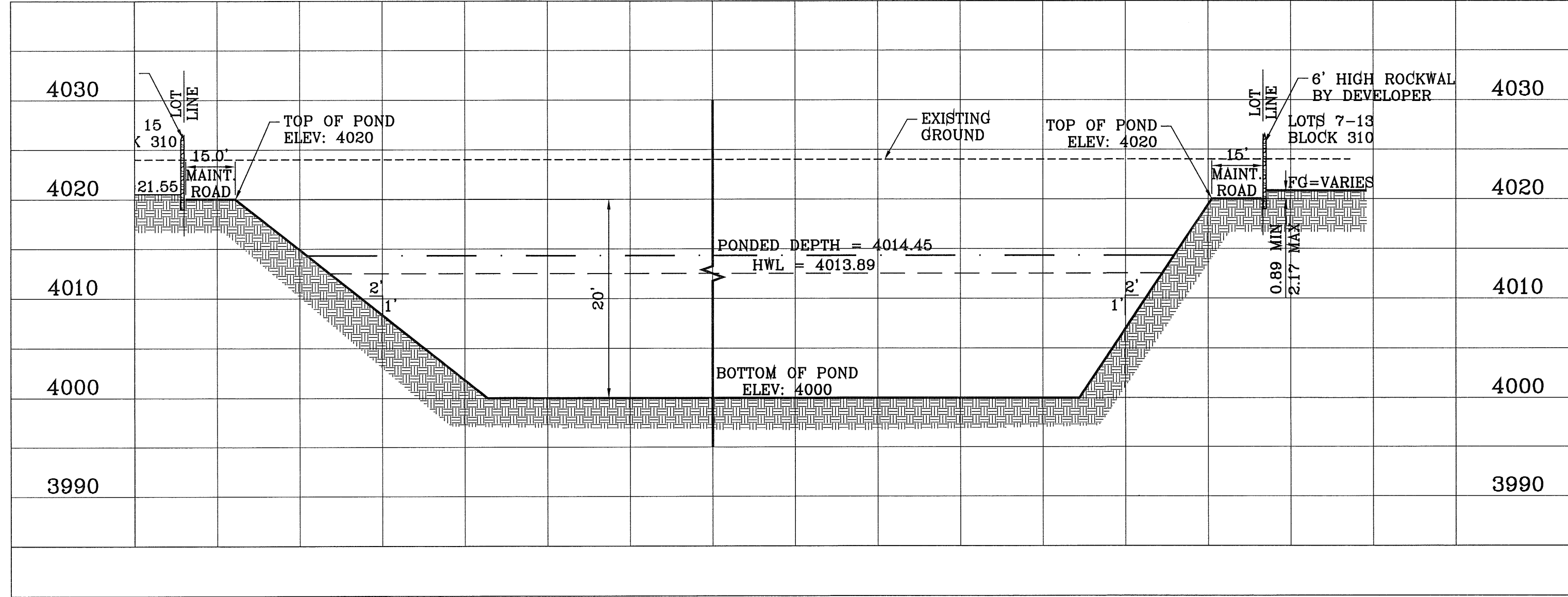
- \* NOTES**
- CONSULT WITH PAINT MANUFACTURER FOR PRODUCTS THAT CAN SUSTAIN LONG PERIODS OF MOISTURE.
  - "d" = DEPTH



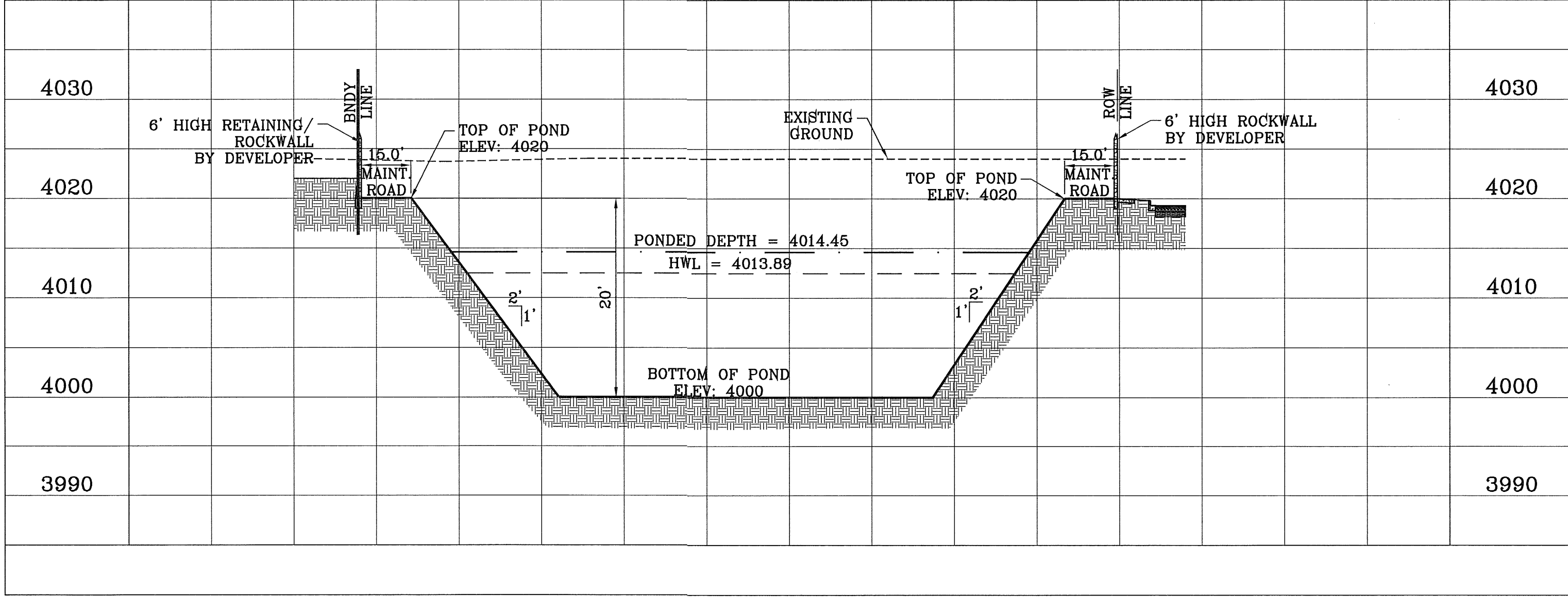
- LEGEND**
- APPROXIMATE WARNING SIGN LOCATION
  - PROPOSED ROCK WALL
  - PROPOSED RETAINING WALL
  - PROPOSED CHAINLINK FENCE



- 3"x3"x3/16" SQUARE STEEL TUBING
- 2"x1"x14 GA. RECTANGULAR STEEL TUBING
- 1 1/2"x1/2"x16 GA. RECTANGULAR STEEL TUBING
- 2"x1"x10 GA. RECTANGULAR STEEL TUBING
- FLAT TOP POLYVINYL CAP
- BOLT HOOK AND STRAP HINGE
- 1'x3' DEEP 3000 PSI CONCRETE POST FOOTING
- DOUBLE GATE HEAVY DRY INDUSTRIAL LATCH W/PAD LOCK
- 5"x5"x3/8" SQUARE STEEL SLEEVE W/7"x7"x3/8" STEEL BASE PLATE
- CANE BOLT LATCH W/KEEPER 5-8" x18" LONG ( 2 REQUIRED)



**SECTION A**  
 SCALE: 1"=30' HOR.  
 SCALE: 1"=10' VERT.



**SECTION B**  
 SCALE: 1"=30' HOR.  
 SCALE: 1"=10' VERT.

BENCHMARK  
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LN  
 ELEVATION 4017.47  
 NAVD88 DATUM

REVISIONS  
 DATE  
 10/3/11 REVISIONS AS PER 8/24/11 REDLINES O.M.  
 11/1/11 REVISIONS AS PER 10/19/11 REDLINES O.M.

PROJECT NAME  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 97, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS  
 CITY OF EL PASO, EL PASO COUNTY, TEXAS  
 CONTAINING: 168.264+ ACRES

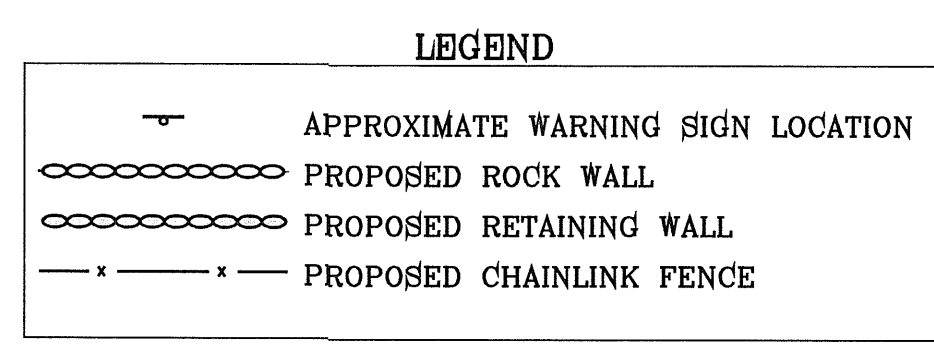
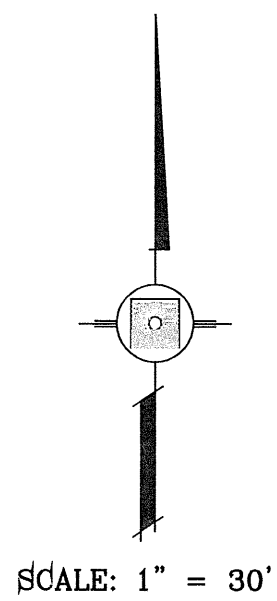
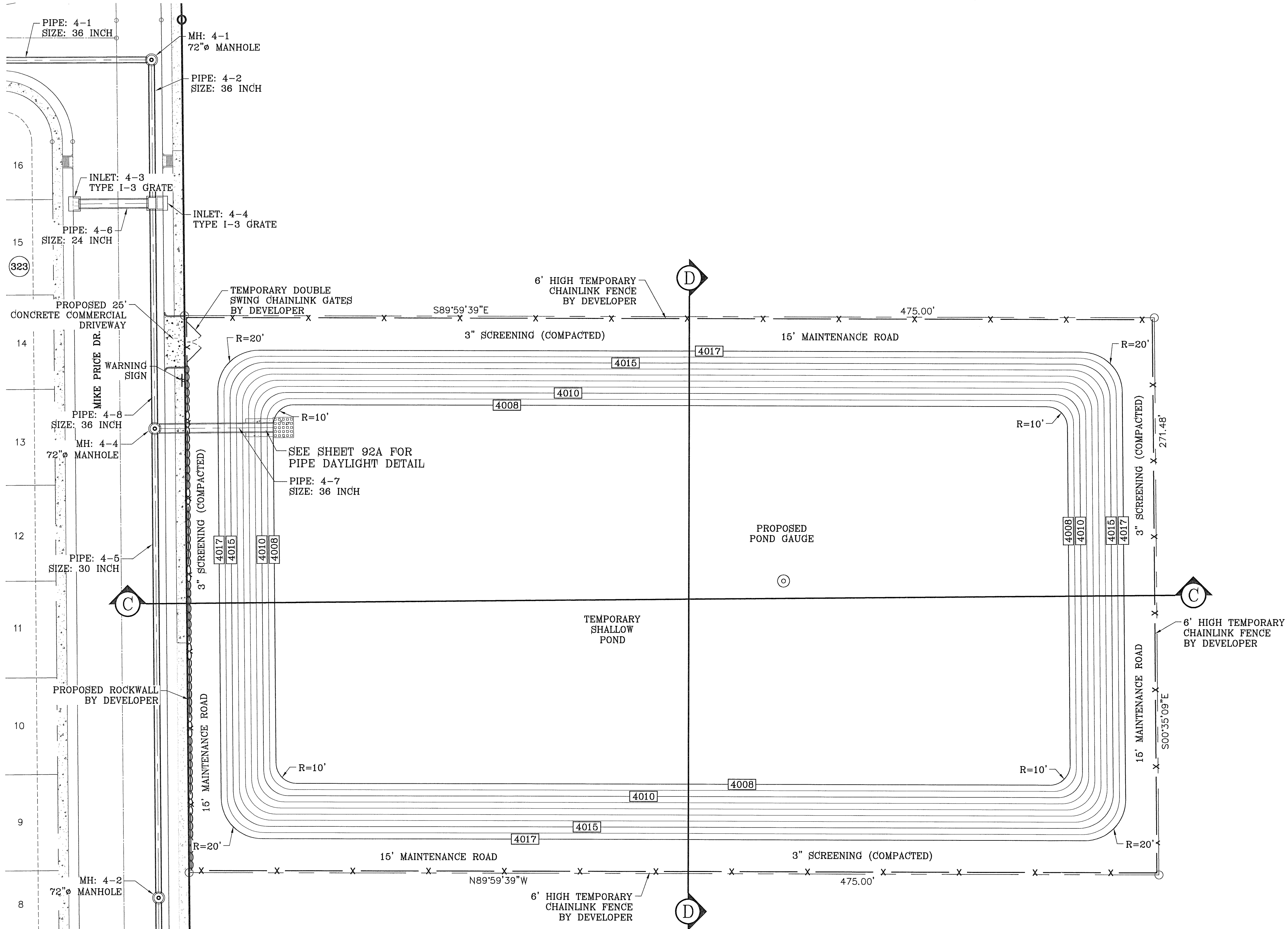
SCALE  
 HORIZ: 1" = 30'  
 VERT: 1" = 10'

DATE: MAY 2012  
 DESIGN BY: YC  
 INITIATED BY: BRG/OM  
 CHECKED BY: YC  
 JOB NO.: 1110-18

ENGINEER'S SEAL  
 STATE OF TEXAS  
 YOUNG CONDE INC.  
 6448  
 PROFESSIONAL ENGINEER

**CONDE INC.**  
 ENGINEERING / PLANNING  
 SURVEYING / GPS  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

SHEET TITLE  
**POND SECTIONS**



**TEMPORARY**

**WATERSHED-POND**

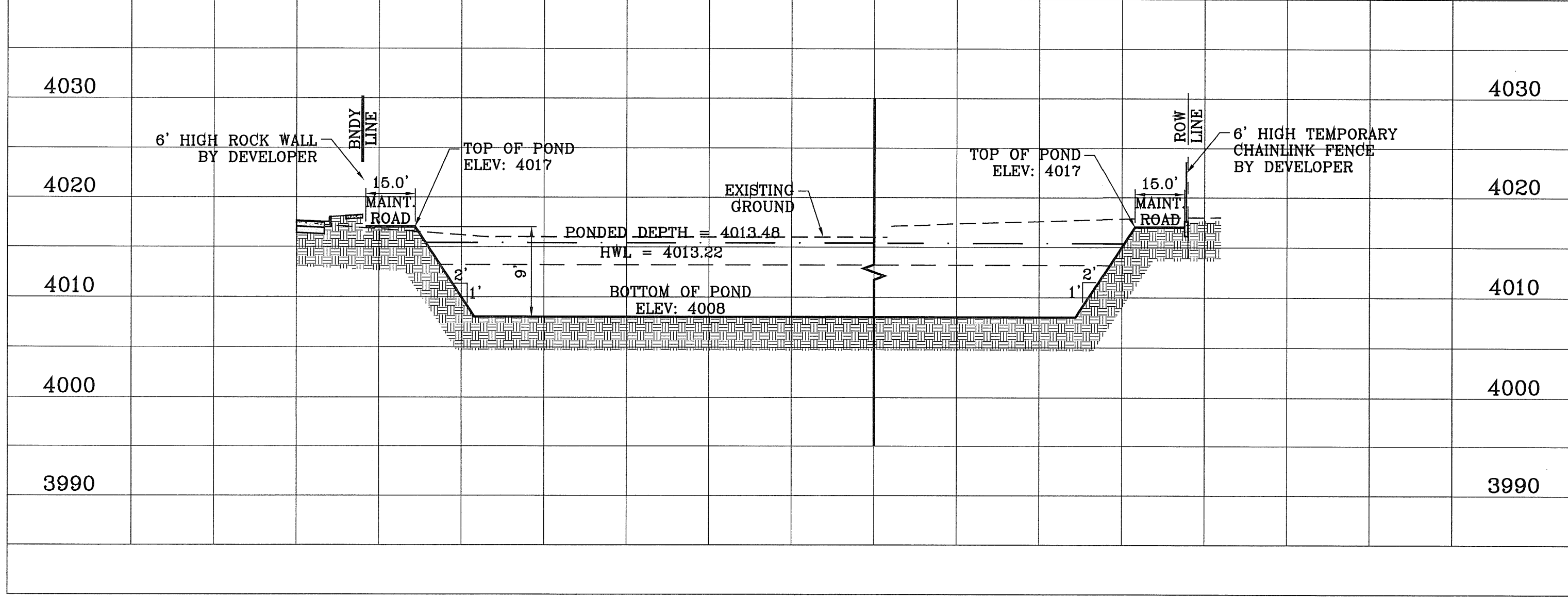
$$QT = \frac{A \cdot R \cdot C}{12} = AC-FT$$

POND CALC.  
 QT=ACR/12  
 A=TOTAL RUNOFF IN ACRE FEET  
 R=RAINFALL IN INCHES  
 C=RUNOFF FACTOR

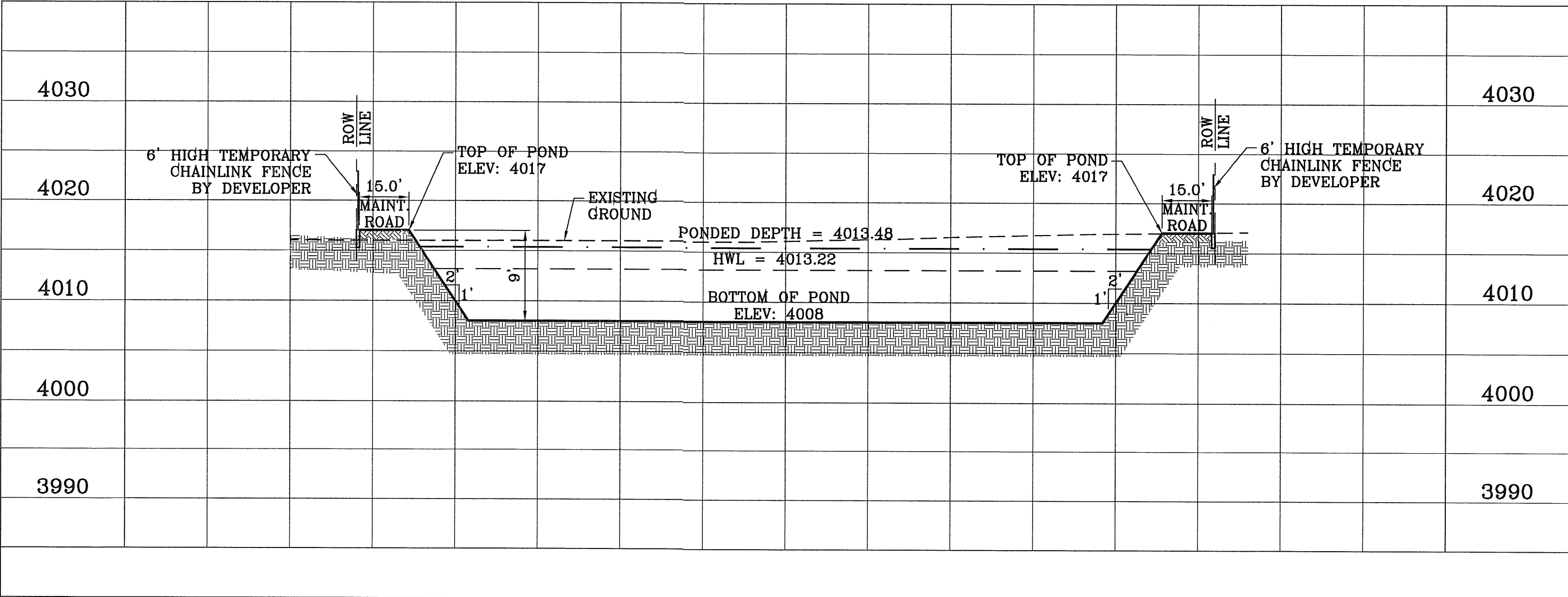
RESIDENTIAL- & POND	40.69ac.(4)	0.60	8.14 ac-ft
FUT. COMM=	5.15ac.(4)	0.90	1.54 ac-ft
		12	9.68 ac-ft
			SILT & DEBRIS = 0.55
			Qreq (TOTAL) = 10.23
			Qcap (TOTAL) = 18.15
			100 YEAR HW ELEVATION = 4013.22
			100 YEAR PONDED DEPTH = 4013.48

**TEMPORARY**

ELEVATION FT	AREA SQ-FT	CONIC VOL. AC-FT	VOLUME CAP. AC-FT
4017.00	105084.76	2.37	18.15
4016.00	101100.04	2.28	15.78
4015.00	97152.11	2.19	13.50
4014.00	93274.48	2.10	11.32
4013.00	89467.13	2.01	9.22
4012.00	85730.06	1.93	7.21
4011.00	82063.28	1.84	5.28
4010.00	78466.79	1.76	3.44
4009.00	74940.59	1.68	1.68
4008.00	71484.67	0.00	0.00



**SECTION C**  
 SCALE: 1"=30' HOR.  
 SCALE: 1"=10' VERT.



**SECTION D**  
 SCALE: 1"=30' HOR.  
 SCALE: 1"=10' VERT.

**TIERRA DEL ESTE UNIT SIXTY SEVEN**

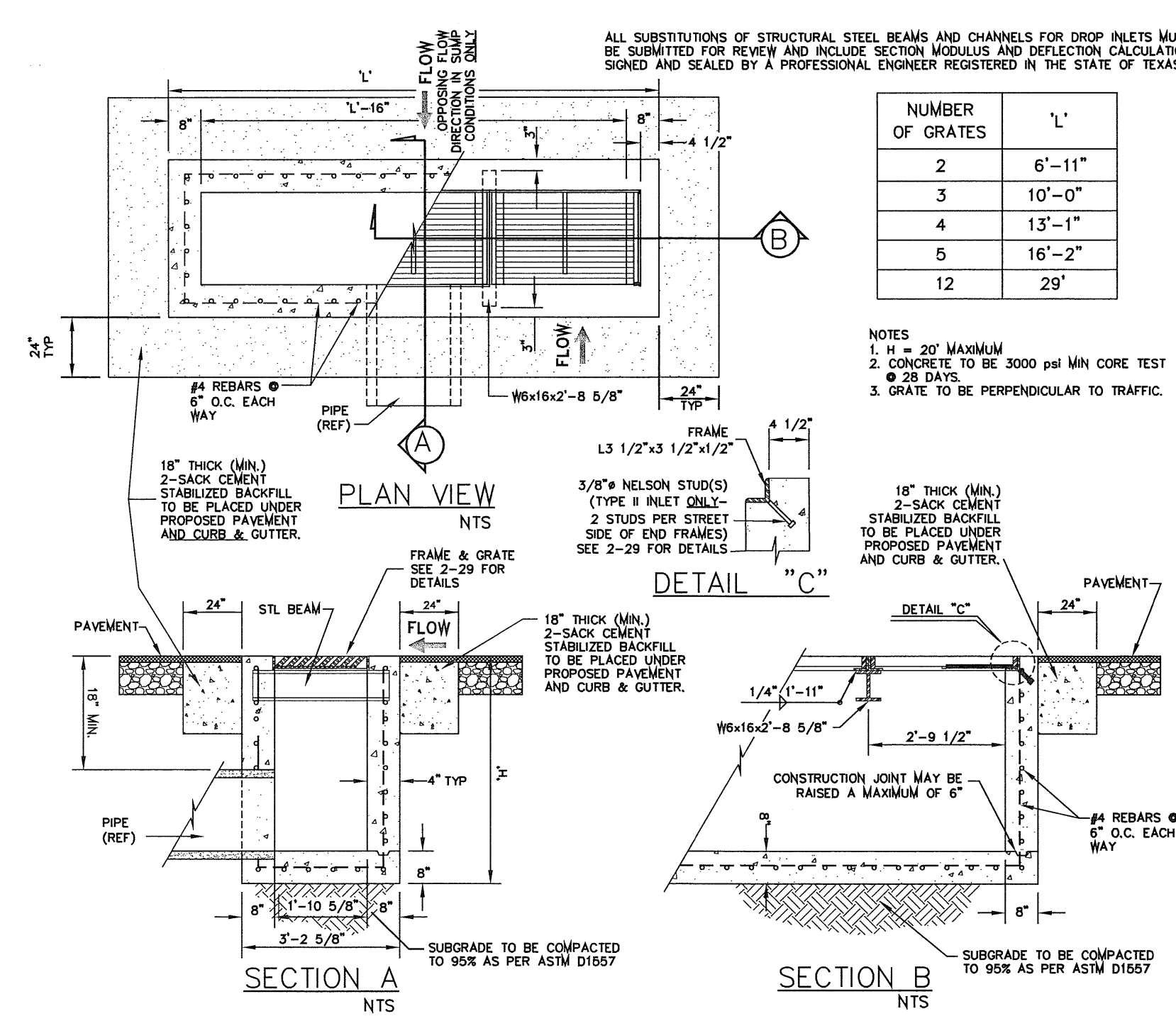
PORTION OF SECTION 37, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEY, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 168,254± ACRES

**CONDE INC.**  
 ENGINEERING / PLANNING SURVEYING / GFS  
 6090 SURETY DR. STE 100 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283 FAX: (915) 592-0286

**TEMPORARY POND SECTIONS**

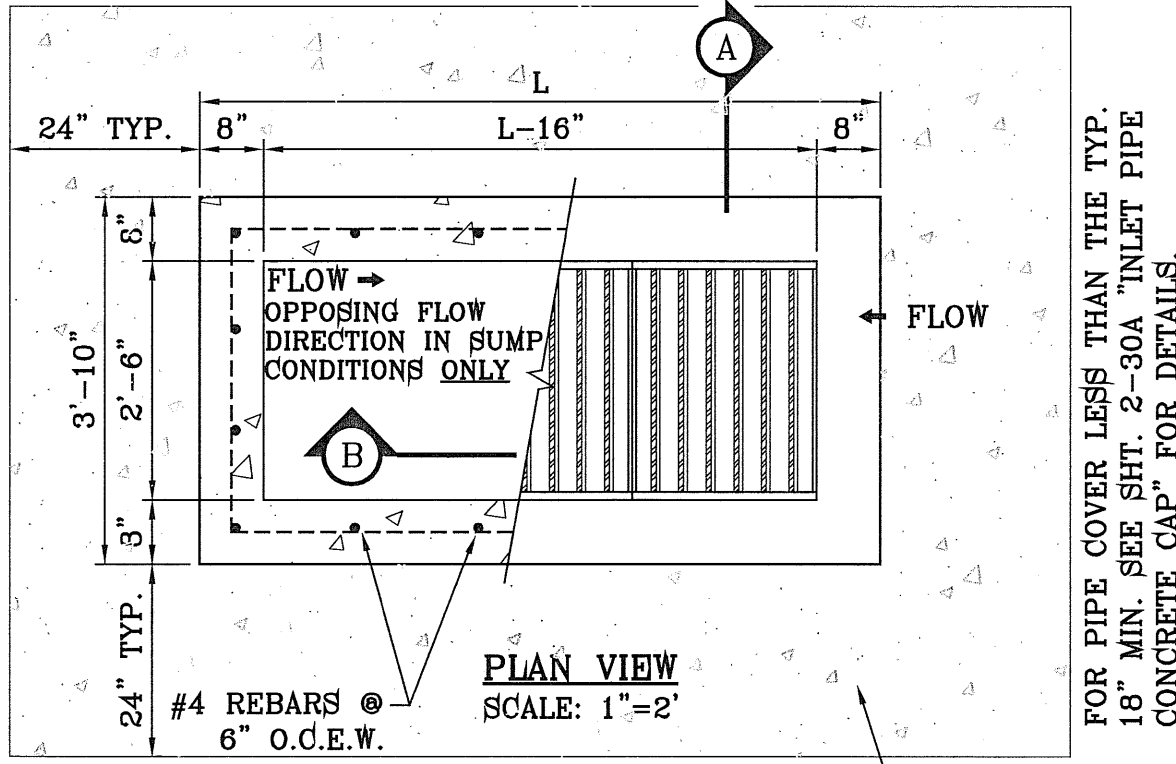
SHT 93A OF 112

FILE LOCATION: S:\Subdivisions\TDE 67.DWG\TDE67-STR\_DET\_PLOTTED ON Thursday, August 23, 2012 9:14:49 AM BY OSCAR MEDINA

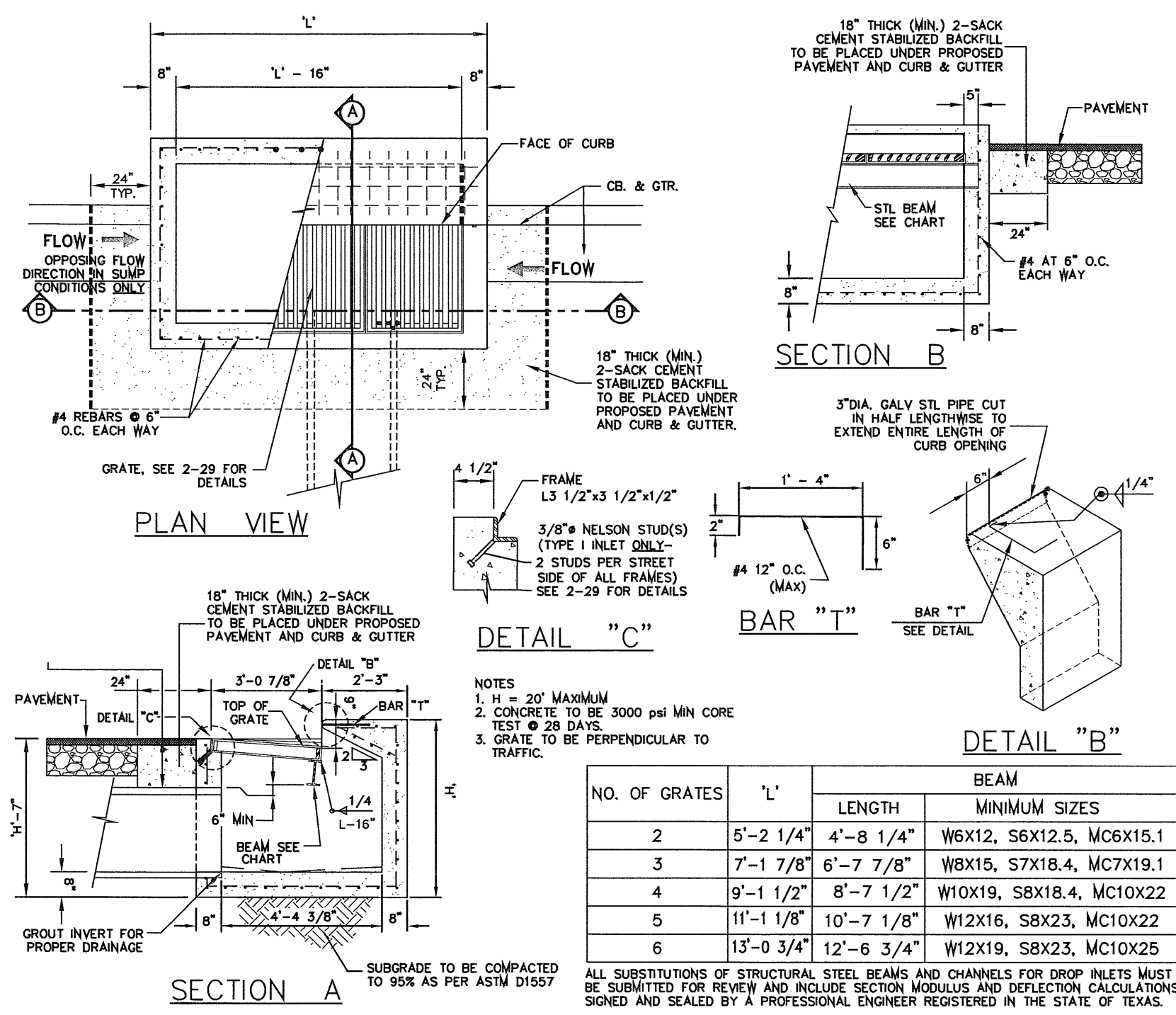


DROP INLET TYPE II 2-31

ALL SUBSTITUTIONS OF STRUCTURAL STEEL BEAMS AND CHANNELS FOR DROP INLETS MUST BE SUBMITTED FOR REVIEW AND INCLUDE SECTION MODULUS AND DEFLECTION CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS



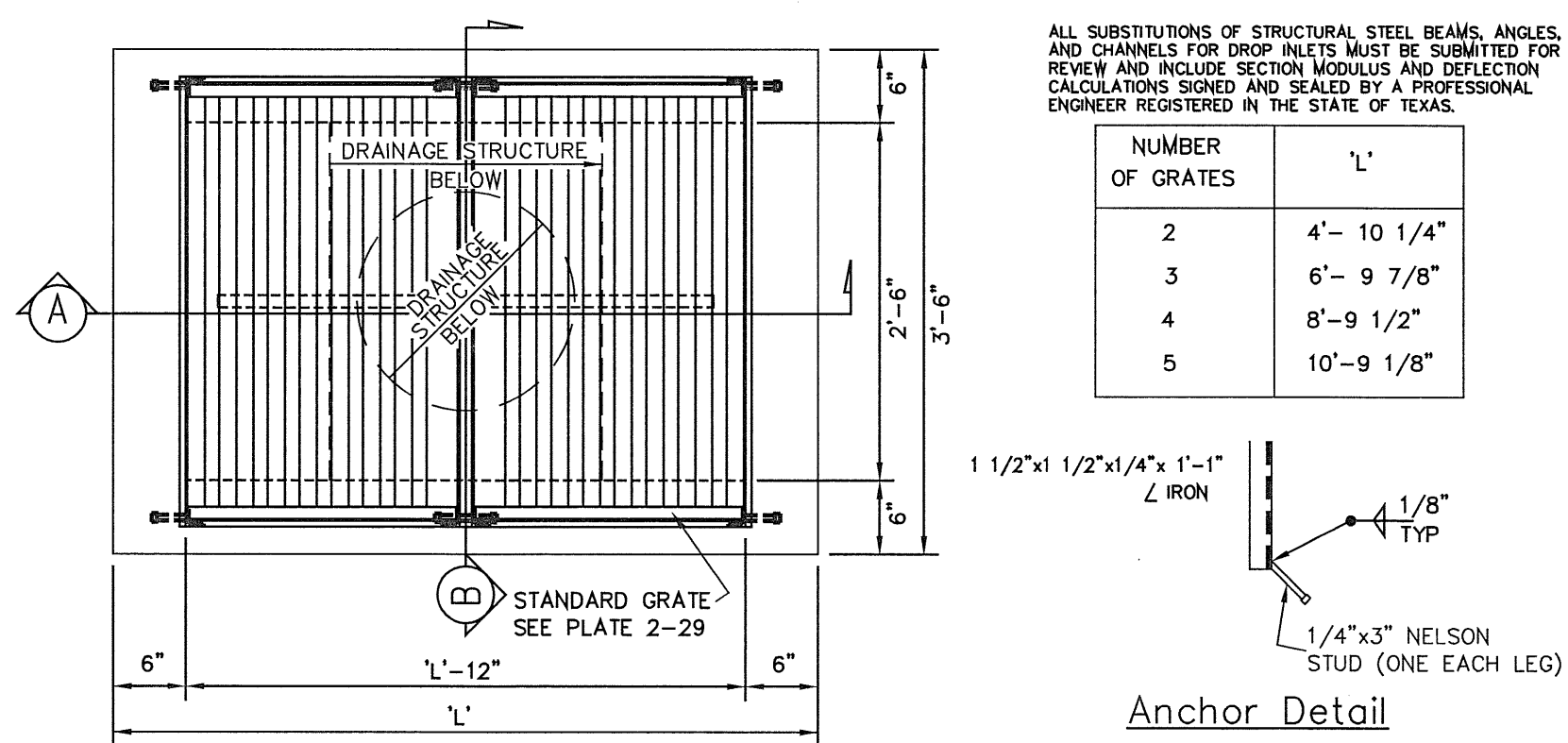
DROP INLET TYPE I 2-30A



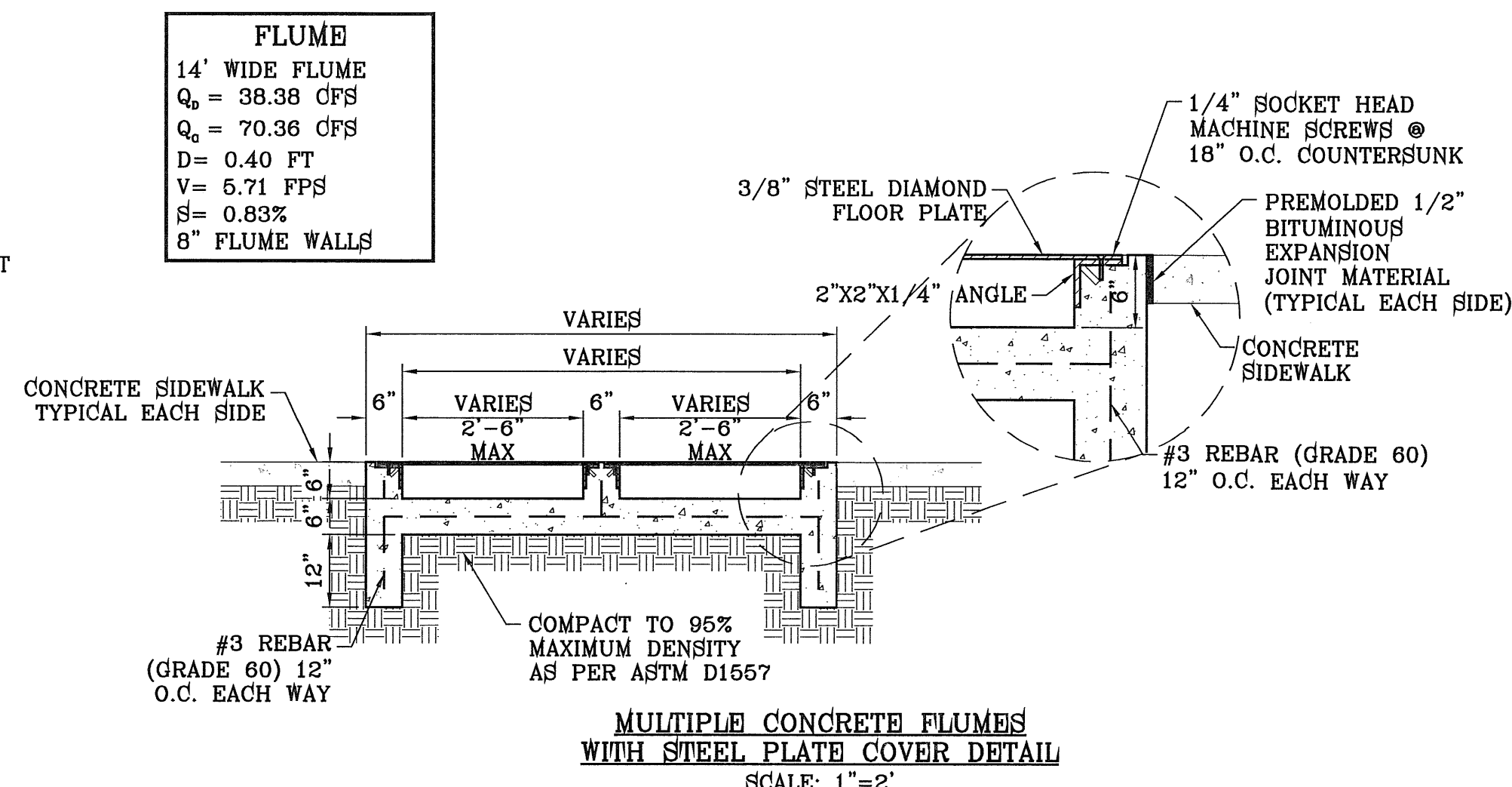
DROP INLET TYPE I 2-30A

ALL SUBSTITUTIONS OF STRUCTURAL STEEL BEAMS, ANGLES AND CHANNELS FOR DROP INLETS MUST BE SUBMITTED FOR REVIEW AND INCLUDE SECTION MODULUS AND DEFLECTION CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS.

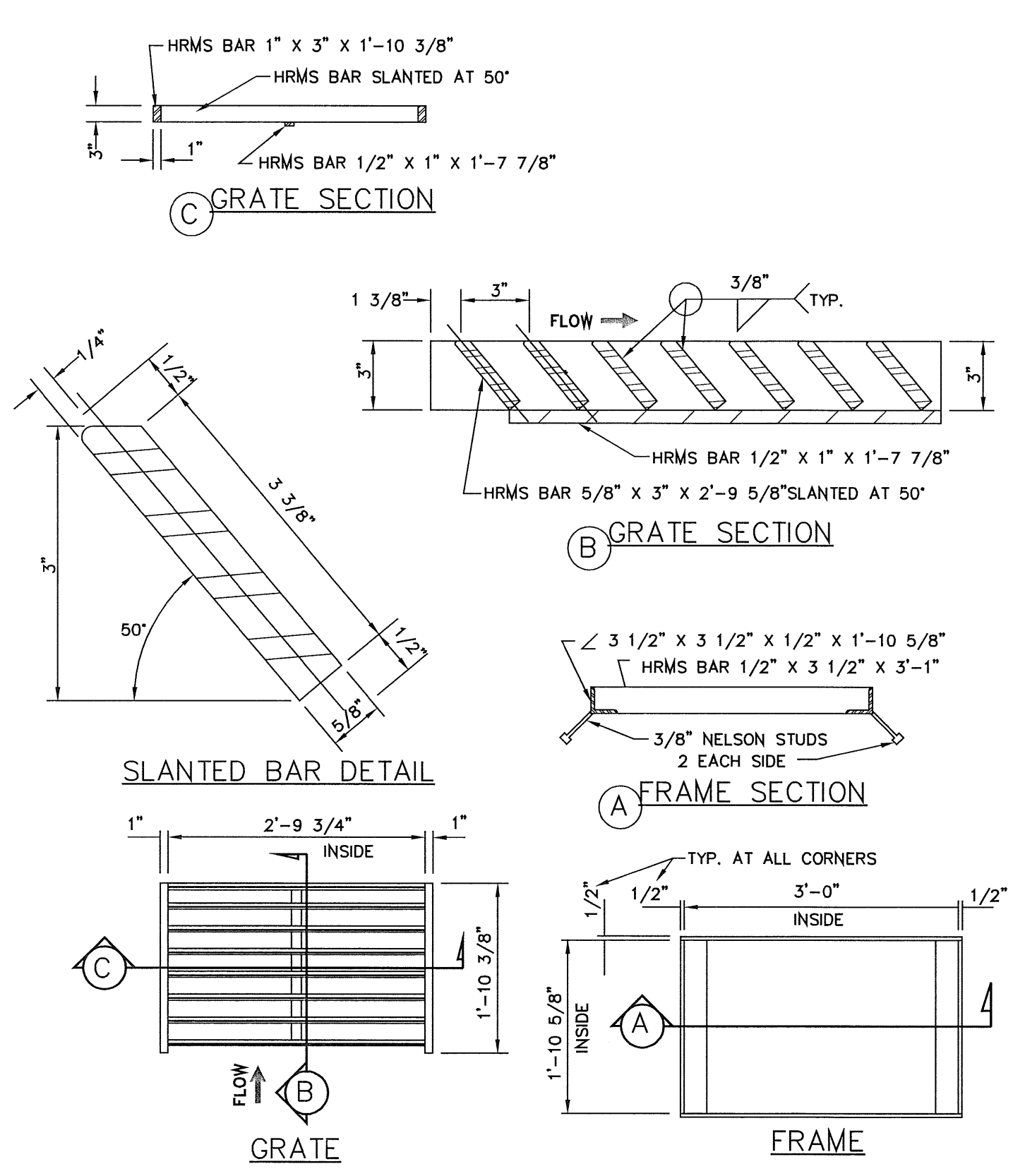
NUMBER OF GRATES	L'
2	4'-10 1/4"
3	6'-9 7/8"
4	8'-9 1/2"
5	10'-9 1/8"



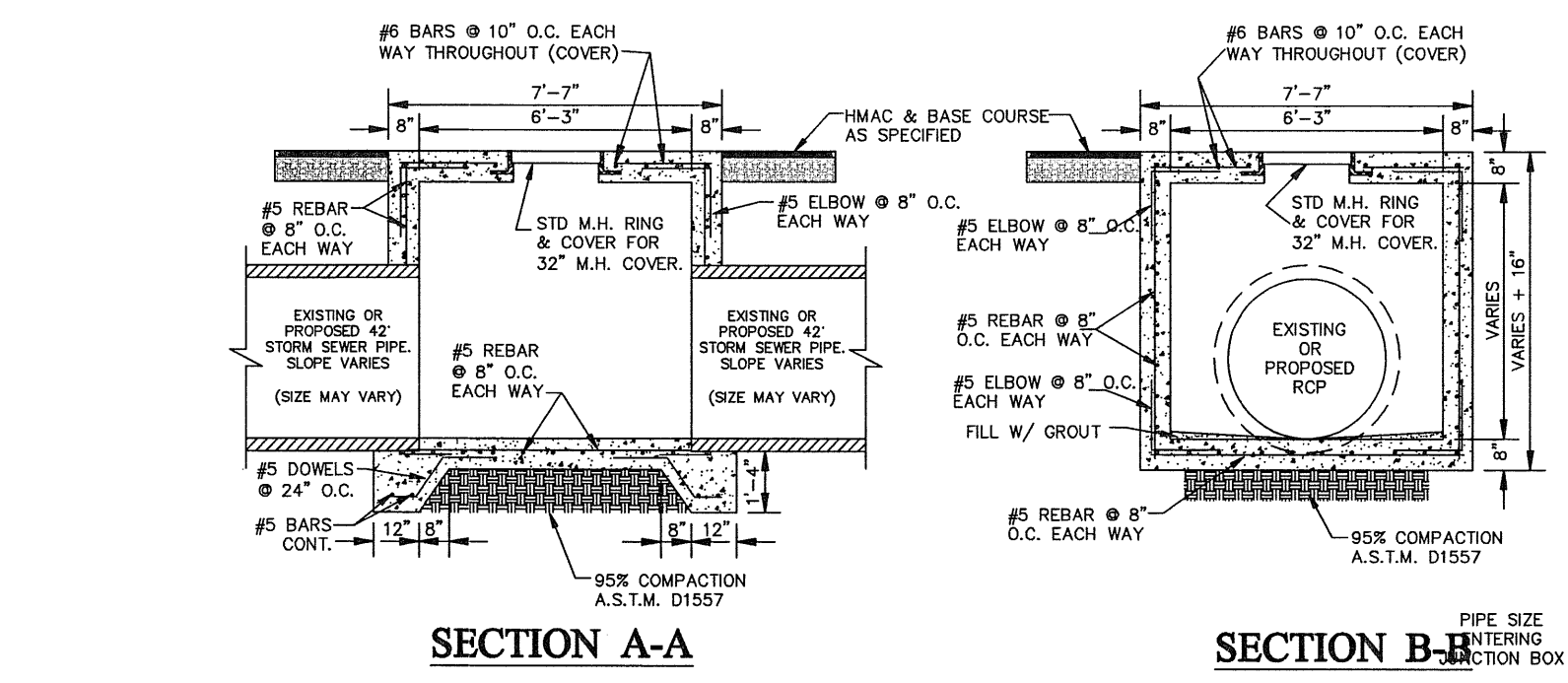
OFF-STREET STORM INLET DETAIL 2-33



MULTIPLE CONCRETE FLUMES WITH STEEL PLATE COVER DETAIL SCALE: 1"=2'



GRATE AND FRAME FOR DROP INLET 2-29



SECTION A-A

SECTION B-B

NOTE: FOR JUNCTION BOXES USING INFLOW/OUTFLOW PIPE SIZES OTHER THAN THOSE INDICATED IN THIS TYPICAL DETAIL, ATTACHED TABLE SHALL BE USED AS A GUIDELINE FOR BOX SIZING ONLY. COMPLETE ENGINEERING DESIGN DRAWINGS INCLUDING ALL CALCULATIONS, DIMENSIONING, REINFORCEMENT AND SPECIFICATIONS SHALL BE SUBMITTED FOR REVIEW AND COMMENT SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS.

W" WIDTH OF JUNCTION BOX (MIN.)	W" WALL THICKNESS	PIPE SIZE ENTERING JUNCTION BOX
5'-3"	8"	18"
5'-10"	8"	24"
6'-5"	8"	30"
7'-0"	8"	36"
7'-7"	8"	42"
8'-2"	8"	48"
8'-9"	8"	54"
9'-4"	8"	60"
9'-11"	8"	66"
10'-6"	8"	72"
11'-8"	8"	84"
12'-10"	8"	96"

72" SQUARE CAST-IN PLACE STANDARD JUNCTION BOX

BENDING DETAIL

PROJECT NAME: **TERRA DEL ESTE UNIT SIXTY SEVEN**

ENGINEER'S SEAL: [Signature]

ENGINEER'S SEAL NOT REQUIRED. THIS SHEET IS PRODUCED FROM CITY SUBDIVISION DESIGN STANDARDS.

CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURETY DR. STE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286

SHEET TITLE: **STRUCTURE DETAILS**

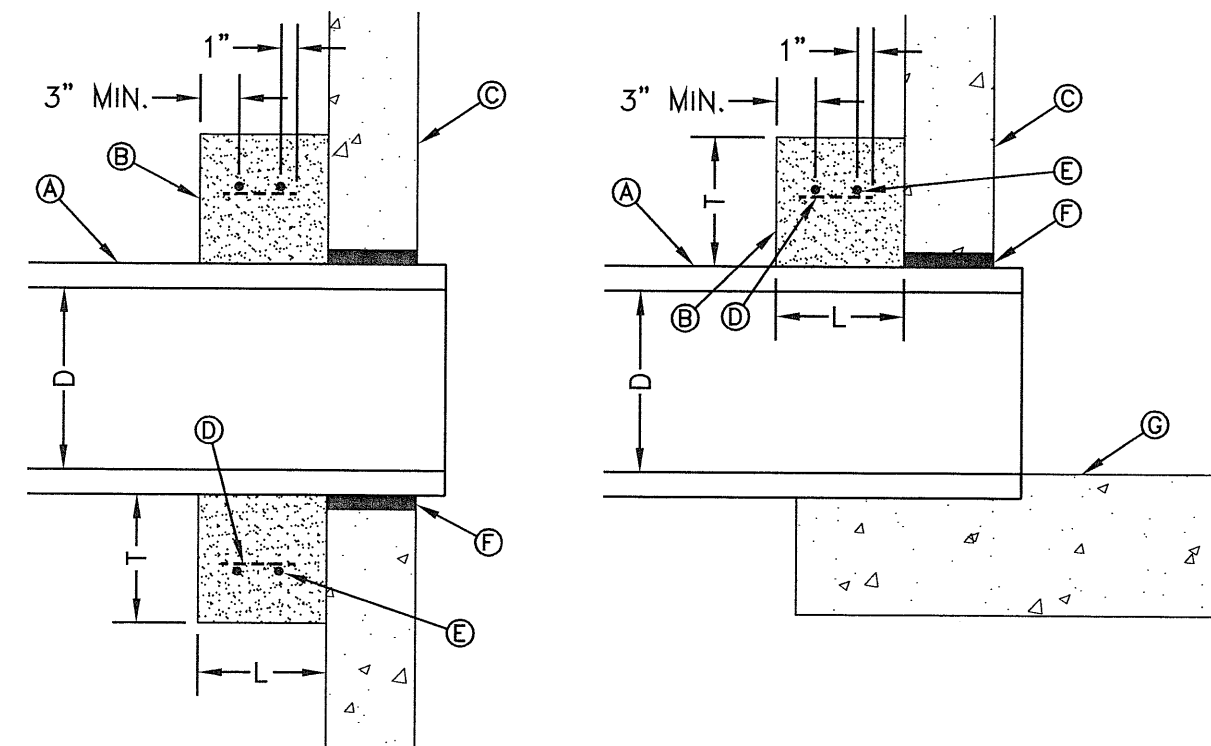
SHT 94 OF 112

TIERRA DEL ESTE UNIT SIXTY SEVEN

FILE LOCATION S:\Subdivisions\TDE 67 DWG\TDE67-STR\_DET\_PLOTTED ON Thursday, August 23, 2012 9:16:37 AM BY OSCAR MEDINA

- GENERAL NOTES:**  
 1. NOT TO BE USED UNDER GROUND WATER CONDITIONS.  
**CONSTRUCTION KEY NOTES:**  
 A. PROPOSED R.C.P. PIPE.  
 B. CONCRETE COLLAR (3000 P.SI CONCRETE).  
 C. INSIDE WALL OF EXISTING MANHOLE OR PRECAST STRUCTURE.  
 D. #4's @ 12" O.C.  
 E. 2-#4 CIRCULAR TIES.  
 F. NON-SHRINK GROUT TO BE PLACED BETWEEN EXISTING MANHOLE AND RCP TO COVER ALL GAPS (TYPICAL). THE AREA BETWEEN THE EXISTING MANHOLE/STRUCTURE AND THE RCP SHALL BE 1/2 OF THE WALL THICKNESS OF THE EXISTING STRUCTURE.  
 G. MANHOLE BASE.

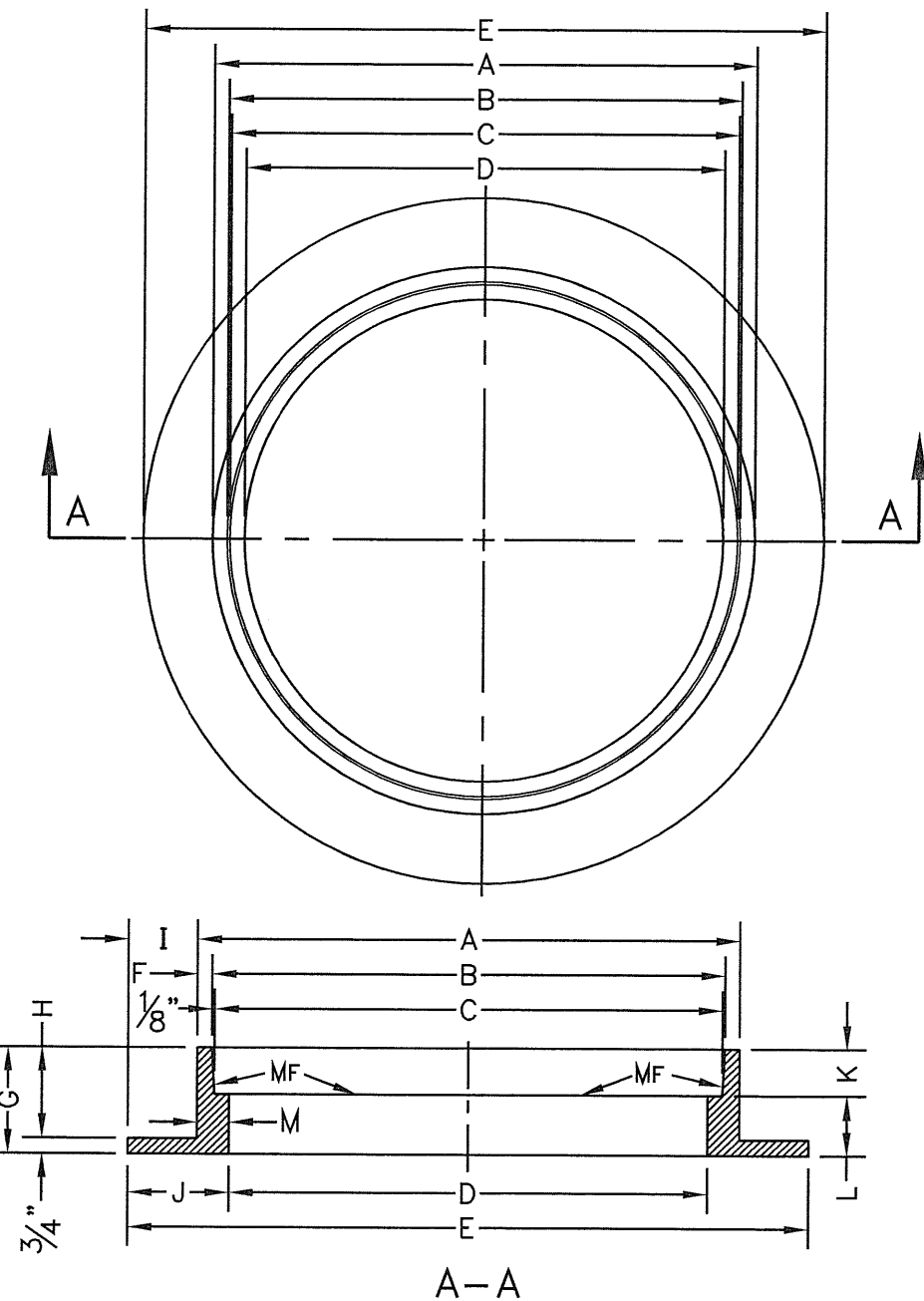
TABLE		
D	L	T
18"	12"	12"
24"	12"	12"
30"	12"	12"
36"	18"	18"
42"	18"	18"



CONNECTION AT DROP INLET

CONNECTION AT BASE

LATERAL CONNECTION AT STORMWATER PRECAST JUNCTION BOXES OR EXISTING MANHOLES (CONCRETE COLLAR) 2-28C

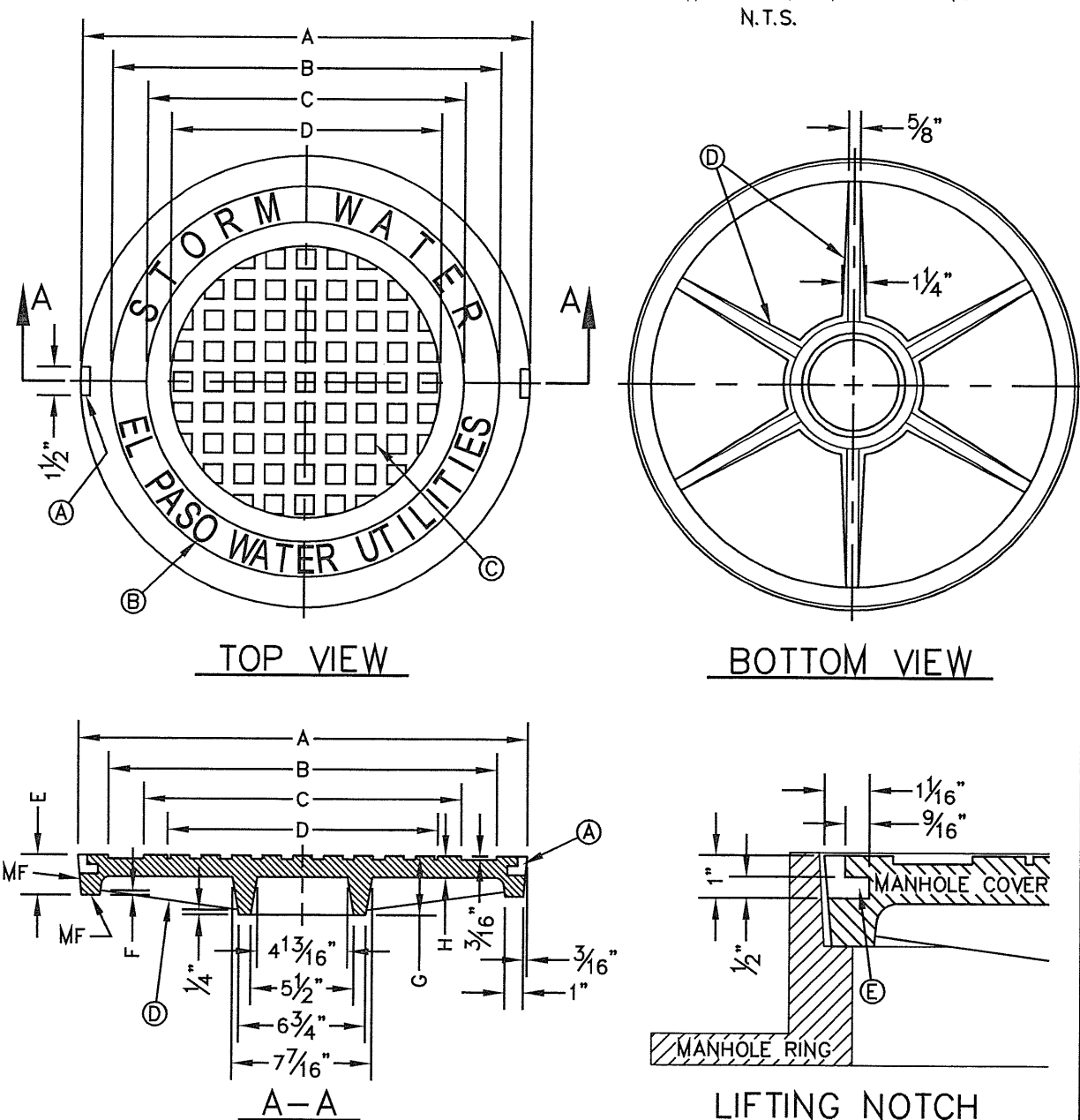


STORMWATER MANHOLE RING N.T.S.

- GENERAL NOTES:**  
 1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.  
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.  
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.  
 4. AS-CAST DIMENSIONS MAY VARY 1/8" ± PER FOOT (AASHTO M306-07).  
 5. WEIGHT MAY VARY 5% ± (AASHTO M306-07).  
 6. SHADED DIMENSIONS IN TABLE FOR REFERENCE ONLY. SOURCE: CITY OF EL PASO DESIGN STANDARDS FOR CONSTRUCTION, DETAIL 2-16.

SEE NOTE 6

MANHOLE RING	MANHOLE - ALL TYPES	MANHOLE TYPE 48"	MANHOLE TYPE 72"
A	33"	25 1/4"	32 1/4"
B	31 3/4"	23 3/4"	31 3/4"
C	31 1/2"	23 3/8"	31 1/2"
D	30"	22 1/2"	30"
E	30 1/2"	22 3/4"	22"
F	9 1/2"	1 1/8"	1 1/8"
G	5"	6"	6"
H	4 1/4"	5 1/2"	5 1/2"
I	3 1/4"	4 1/8"	4 1/8"
J	4 3/4"	6"	6"
K	2 1/16"	3 1/8"	3 1/8"
L	2 1/16"	2 1/8"	2 1/8"
M	1 1/2"	1 3/8"	1 3/8"
WEIGHT	220 lbs.	185 lbs.	220 lbs.

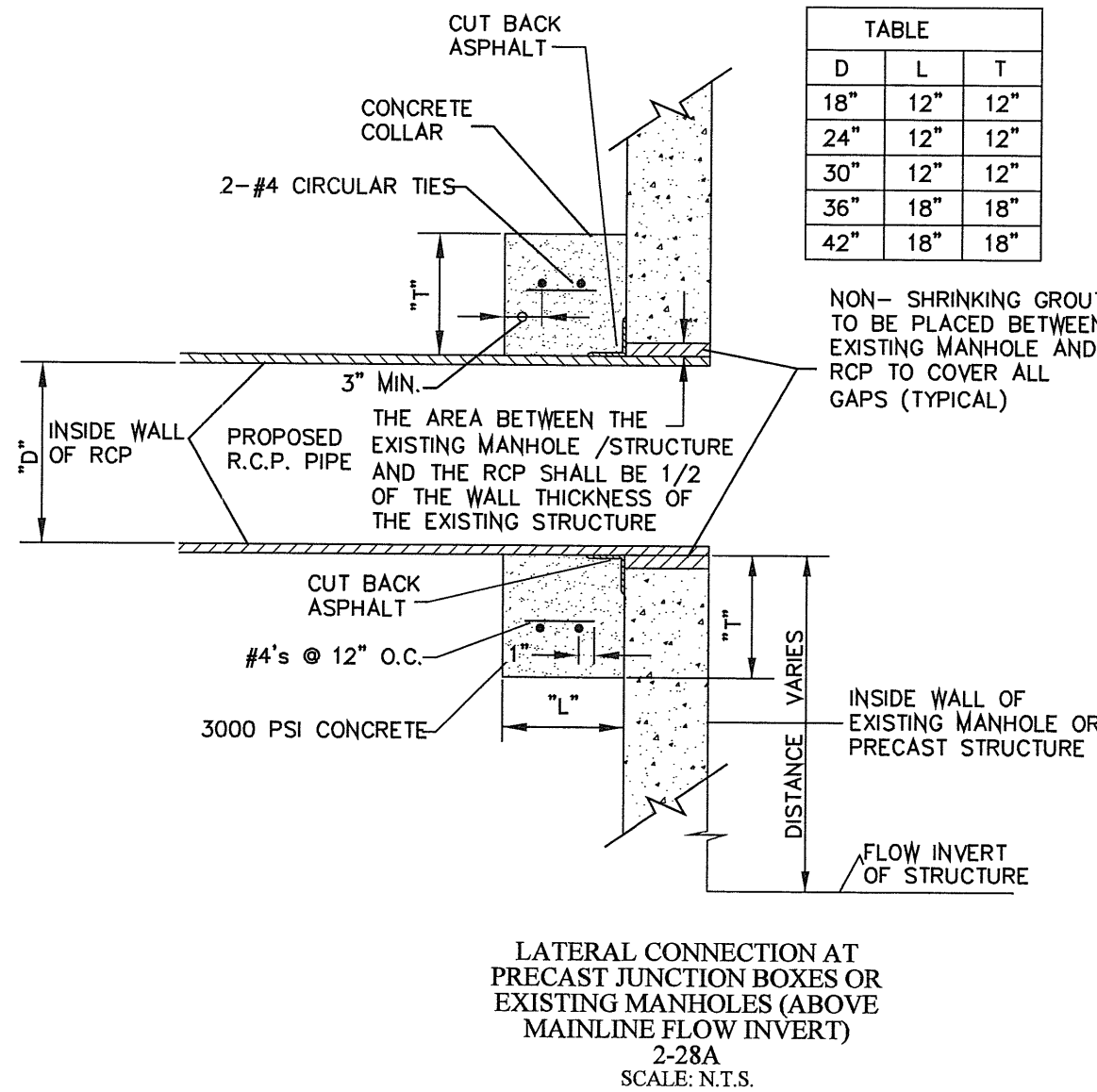


STORMWATER MANHOLE COVER N.T.S.

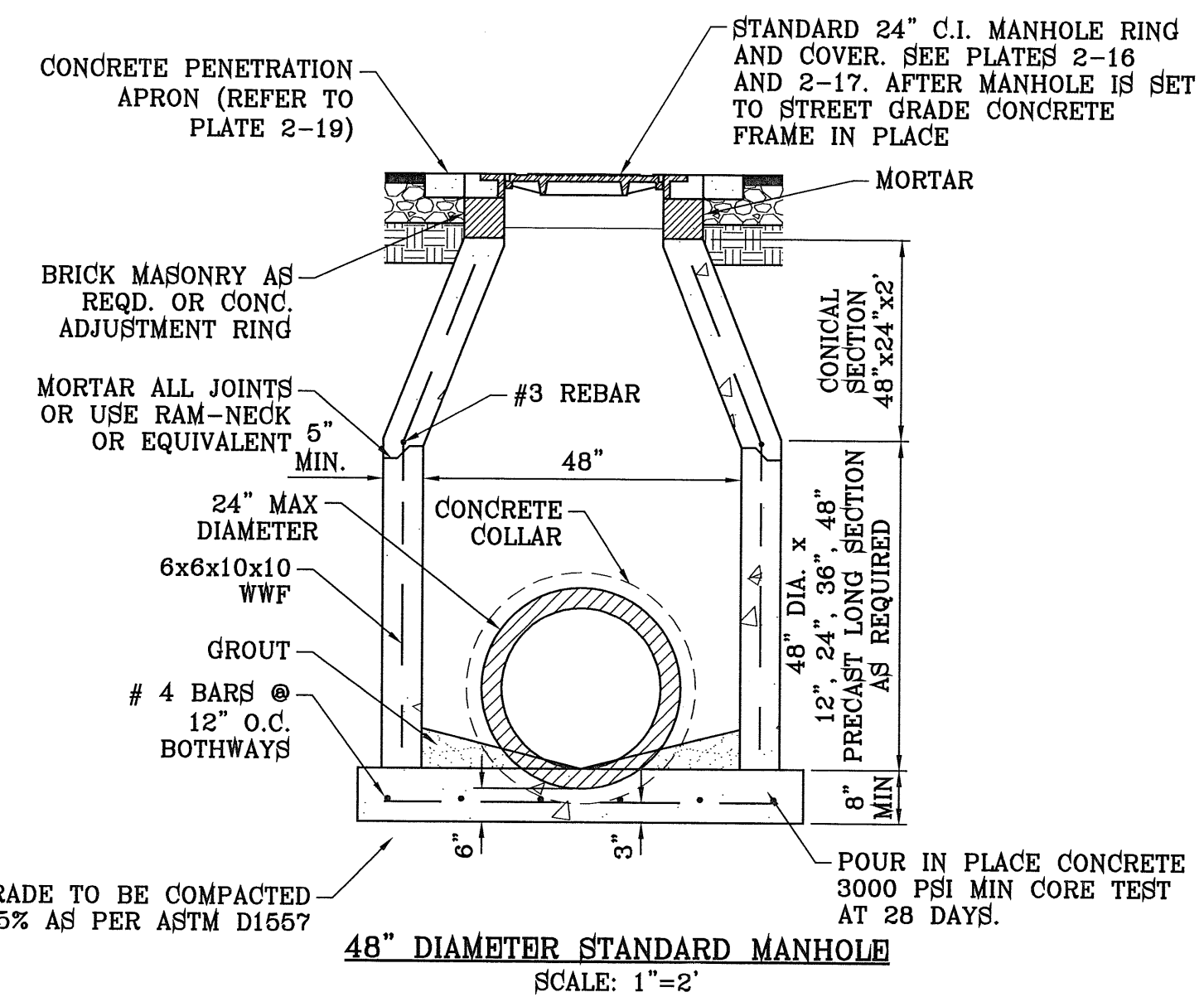
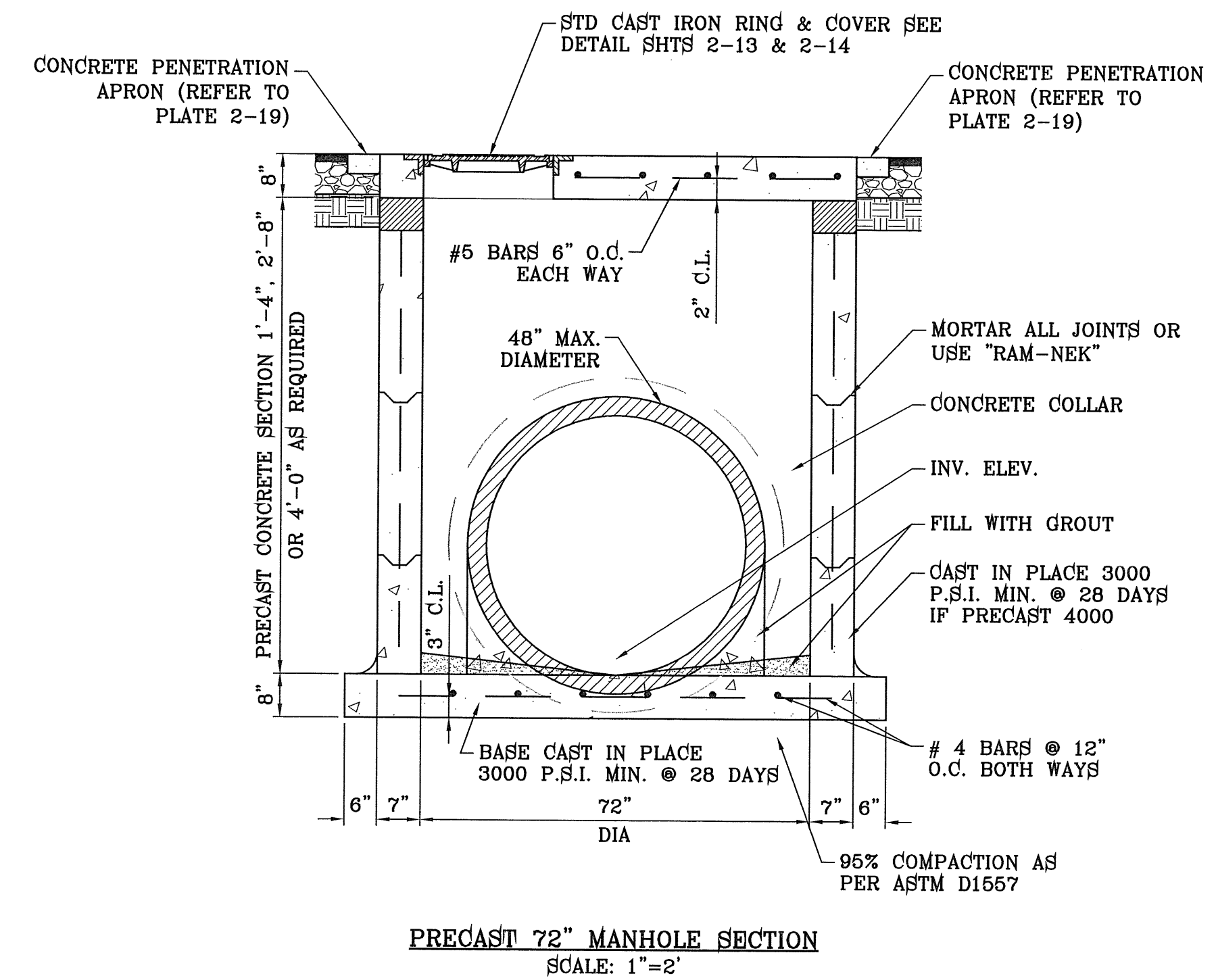
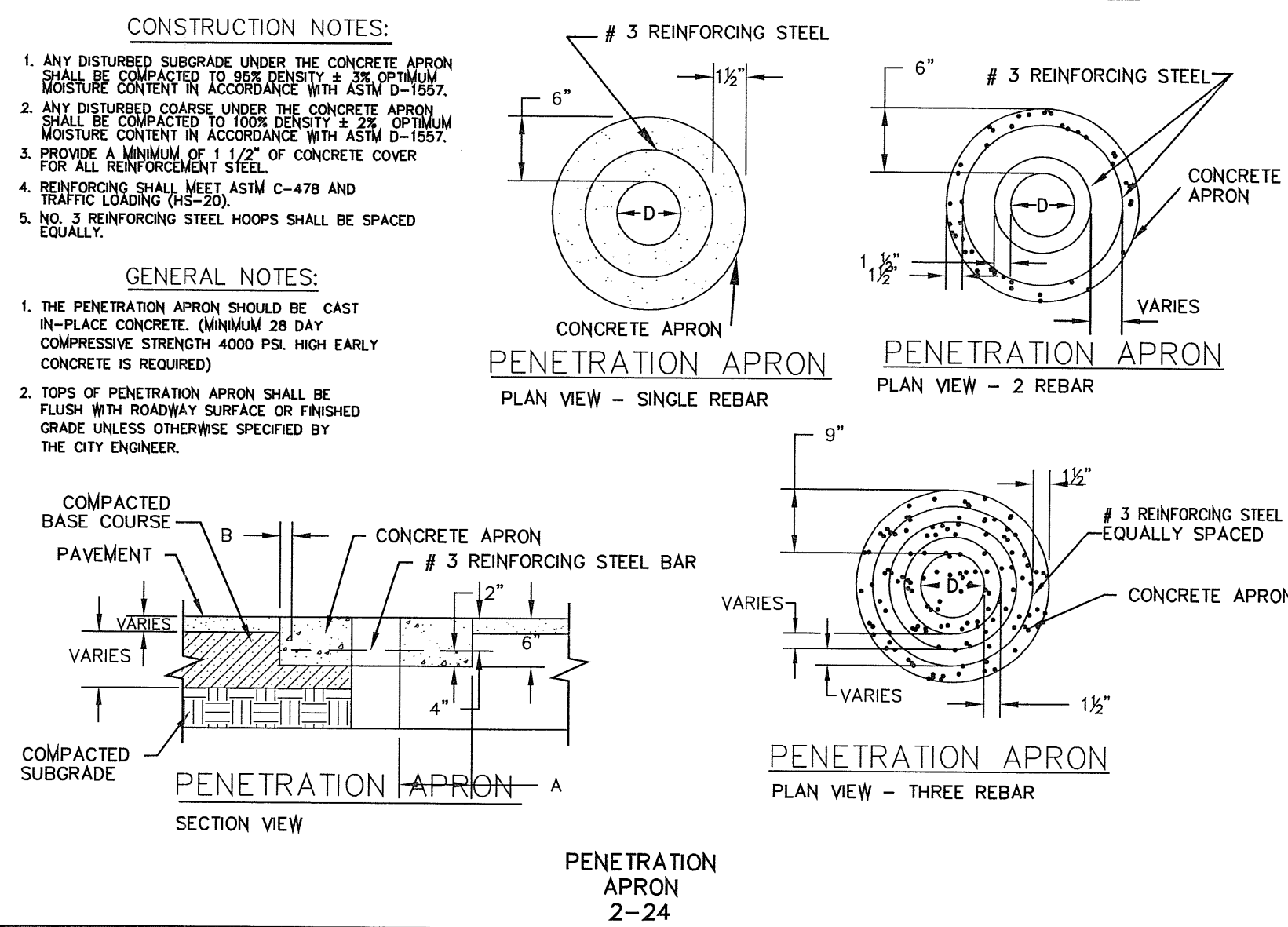
- GENERAL NOTES:**  
 1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.  
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.  
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.  
 4. AS-CAST DIMENSIONS MAY VARY 1/8" ± PER FOOT (AASHTO M306-07).  
 5. WEIGHT MAY VARY 5% ± (AASHTO M306-07).  
 6. SHADED DIMENSIONS IN TABLE FOR REFERENCE ONLY. SOURCE: CITY OF EL PASO DESIGN STANDARDS FOR CONSTRUCTION, DETAIL 2-17.

SEE NOTE 6

MANHOLE COVER	MANHOLE - ALL TYPES	MANHOLE TYPE 48"	MANHOLE TYPE 72"
A	31 3/8"	23 3/4"	31 1/2"
B	28 3/8"	20 3/4"	28 3/8"
C	24 3/8"	16 3/4"	24 3/8"
D	21 7/8"	14 3/8"	21 7/8"
E	2 1/8"	3"	3"
F	3/4"	1 1/4"	1 1/4"
G	3 3/8"	3"	3"
H	1 7/8"	1"	1"
WEIGHT	265 lbs.	175 lbs.	310 lbs.



"D" DIAMETER OF PENETRATION	"A" CONCRETE HORIZONTAL DIMENSION FROM PENETRATION	NUMBER OF NO. 3 REINFORCING STEEL BARS	"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 18.01	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



**ENGINEER'S SEAL**  
 ENGINEER'S SEAL NOT REQUIRED.  
 THIS SHEET IS PRODUCED FROM CITY SUBDIVISION DESIGN STANDARDS

**SCALE**  
 HORIZ: AS NOTED  
 VERT: ---

**DATE:** MAY 2012  
**DESIGN BY:** YC  
**INITIATED BY:** BEG/OM  
**CHECKED BY:** YC

**PROJECT NAME**  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

**BENCHMARK**  
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHNSWAY ST. AND SPANISH POINT LN.  
 ELEVATION: 407.47

**REVISIONS**  
 DATE: 10/3/11 REVISIONS AS PER 8/24/11 REDLINES  
 DATE: 11/1/11 REVISIONS AS PER 10/19/11 REDLINES

**BY**  
 O.M.  
 O.M.  
 O.M.

**BEING PORTION OF SECTION 97, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEY, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 166.254 ± ACRES**

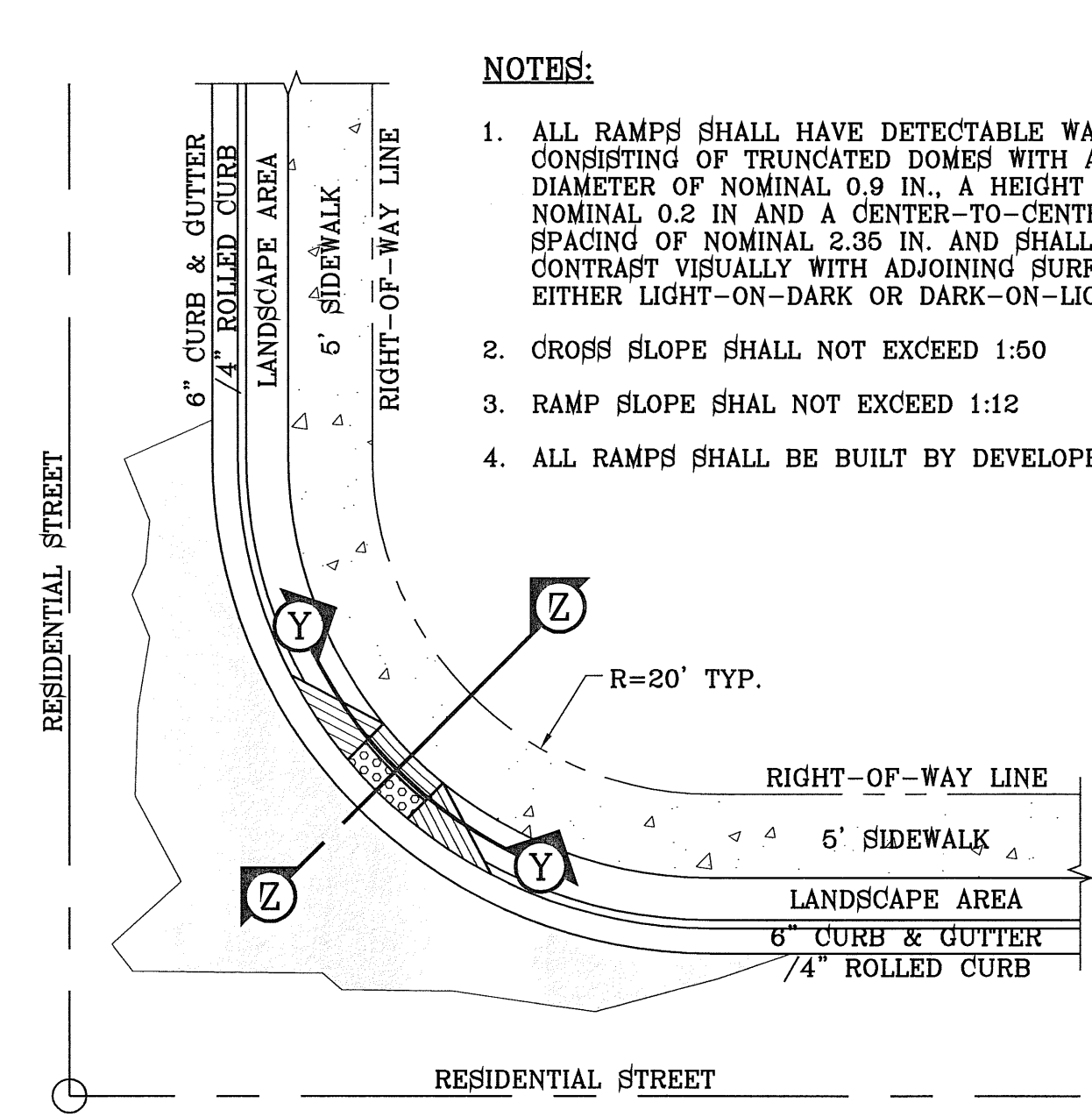
**CONDE INC.**  
 ENGINEERING / PLANNING / SURVEYING / GPS  
 6080 SURRETT DR. STE. 100  
 EL PASO, TEXAS 79905  
 PHONE: (915) 592-0283  
 FAX: (915) 592-0286

**CONDE INC.**  
 REGISTRATION No. P-331

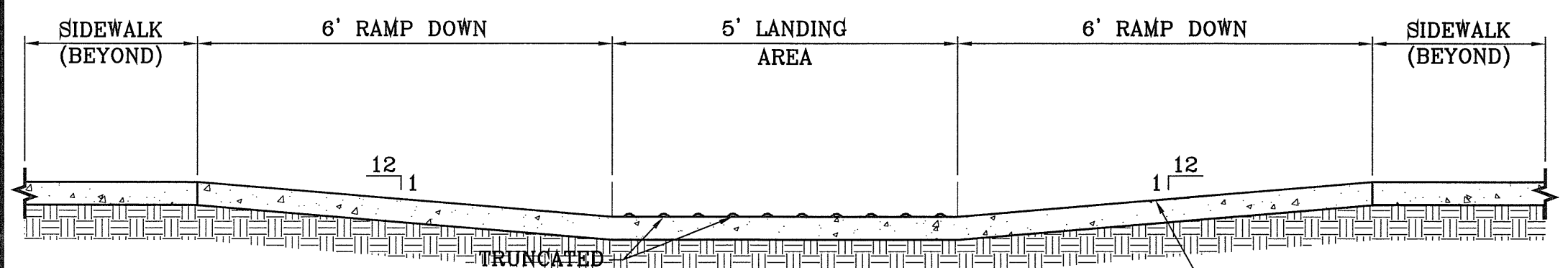
**SHEET TITLE**  
**STRUCTURE DETAILS**

**SHT 94A OF 112**

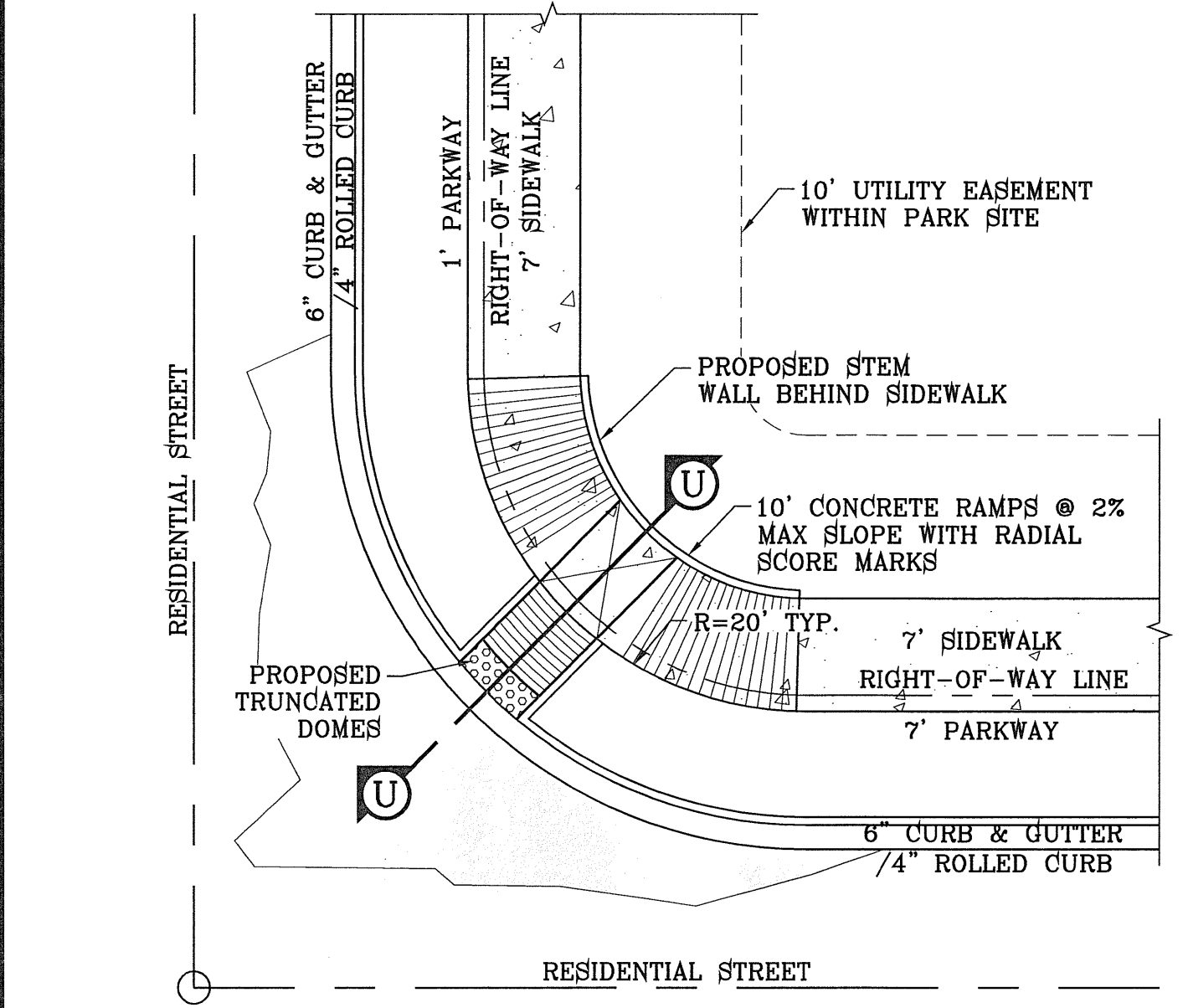
- NOTES:**
1. ALL RAMPS SHALL HAVE DETECTABLE WARNINGS CONSISTING OF TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN., A HEIGHT OF NOMINAL 0.2 IN AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN. AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.
  2. CROSS SLOPE SHALL NOT EXCEED 1:50
  3. RAMP SLOPE SHALL NOT EXCEED 1:12
  4. ALL RAMPS SHALL BE BUILT BY DEVELOPER



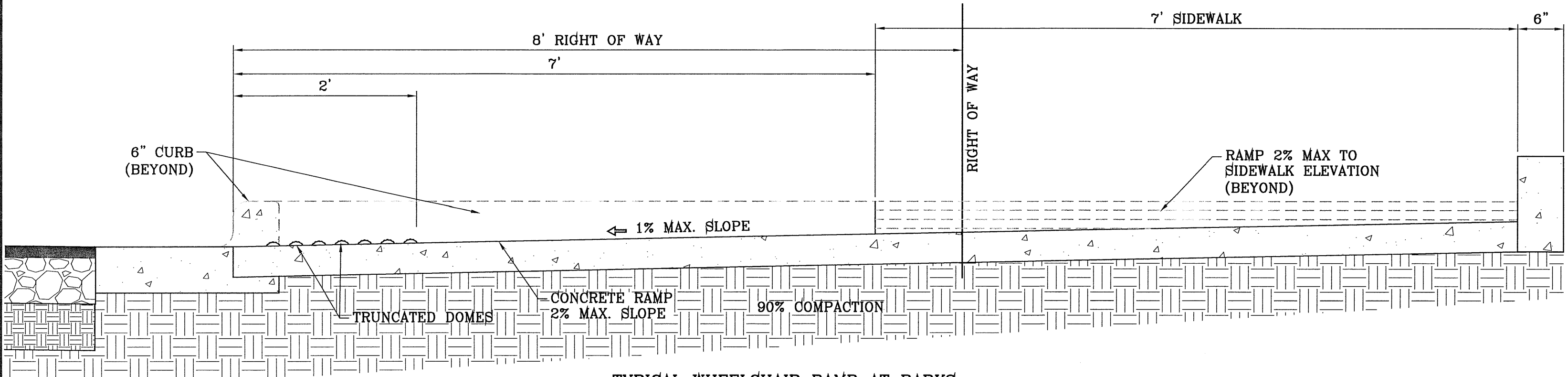
**RAMP ON 5' SIDEWALK AT CURB & GUTTER/ROLLED CURB**  
SCALE: 1"=10'



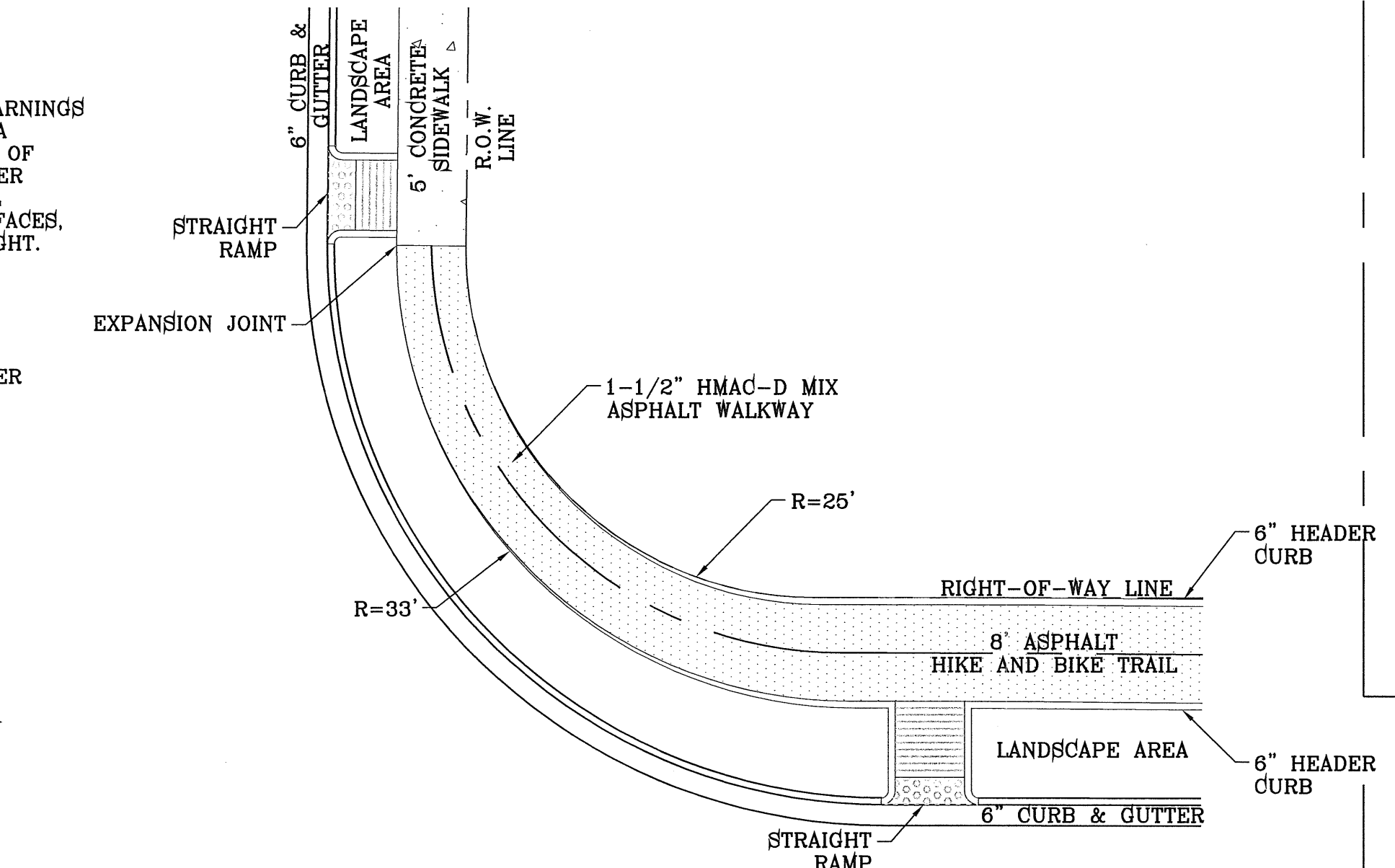
**RAMP ON 5' SIDEWALK SECTION Y**  
SCALE: 1"=2'



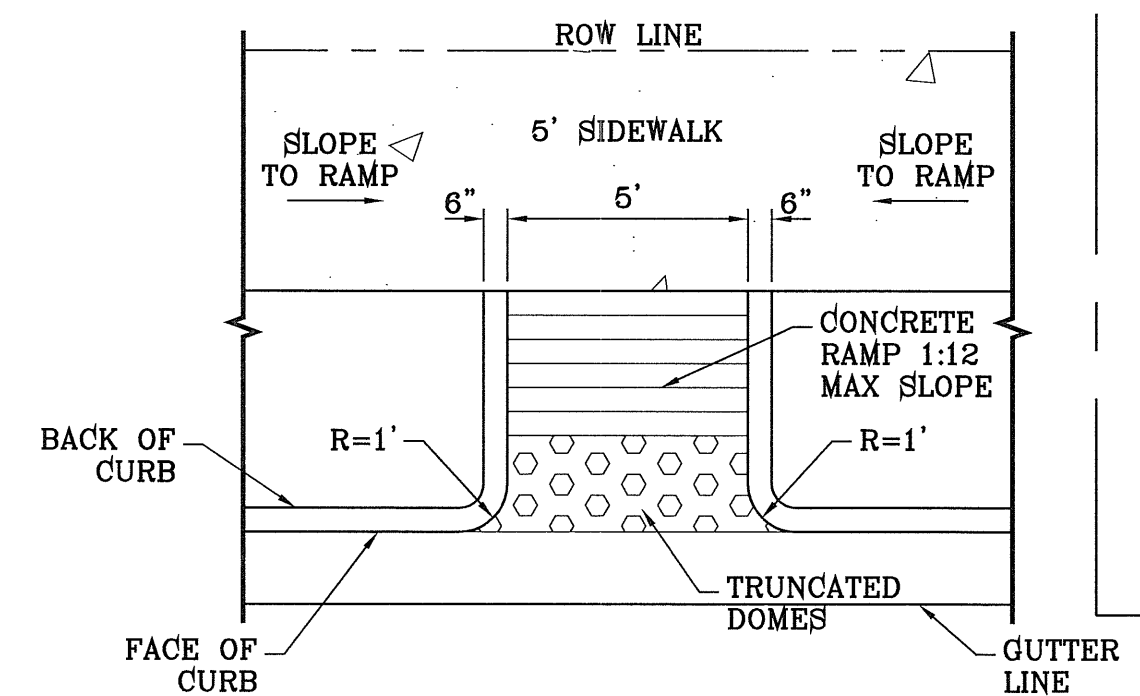
**RAMP ON 7' SIDEWALK AT CURB & GUTTER/ROLLED CURB**  
SCALE: 1"=10'



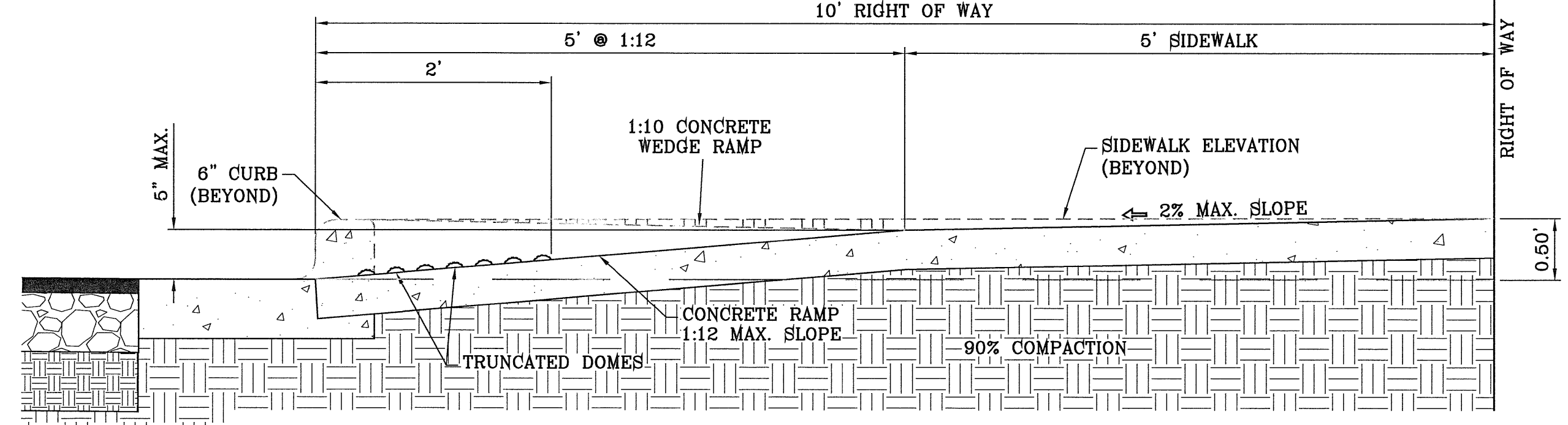
**TYPICAL WHEELCHAIR RAMP AT PARKS SECTION U**  
SCALE: 1"=1'



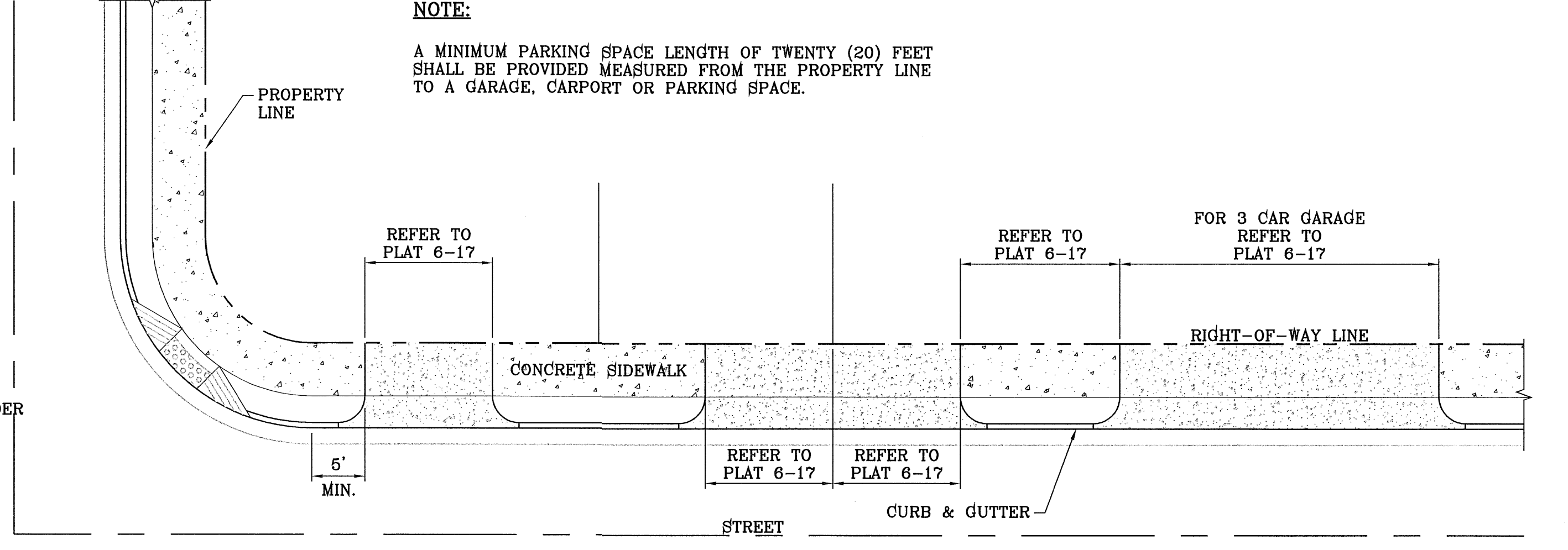
**8' HIKE AND BIKE TRAIL TRANSITION TO 5' SIDEWALK**  
SCALE: 1"=10'



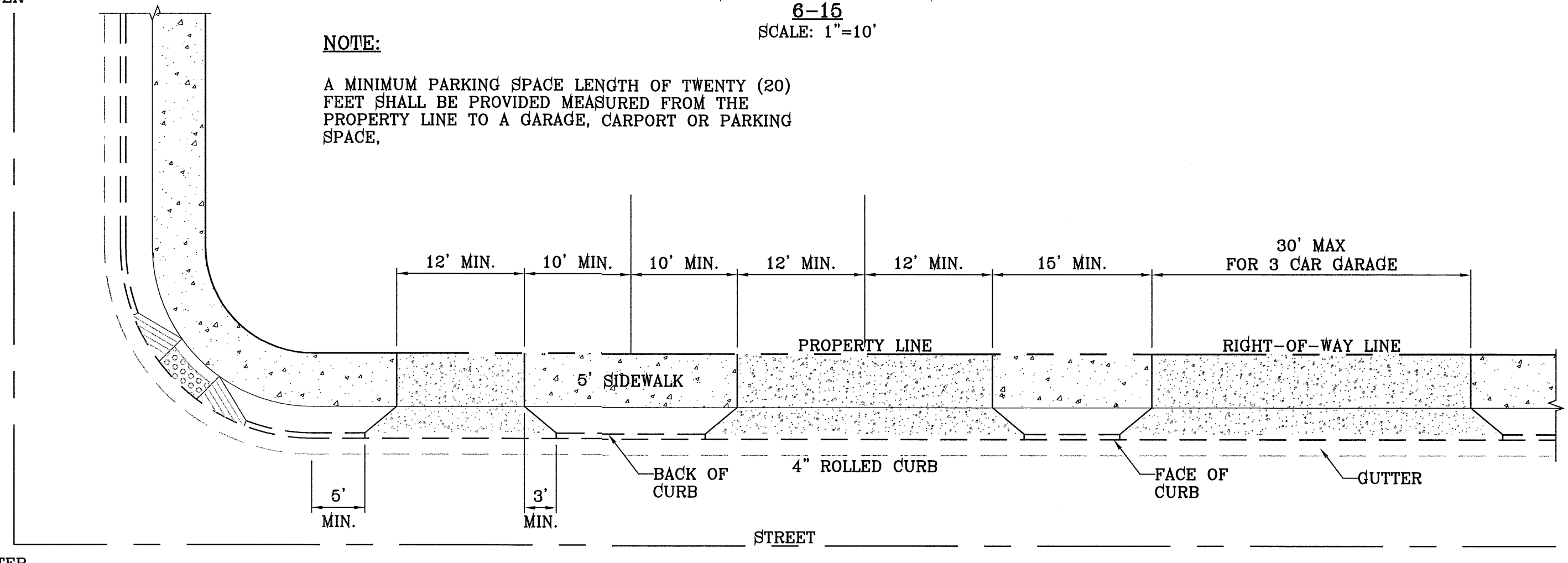
**STRAIGHT RAMP**  
SCALE: 1"=4'



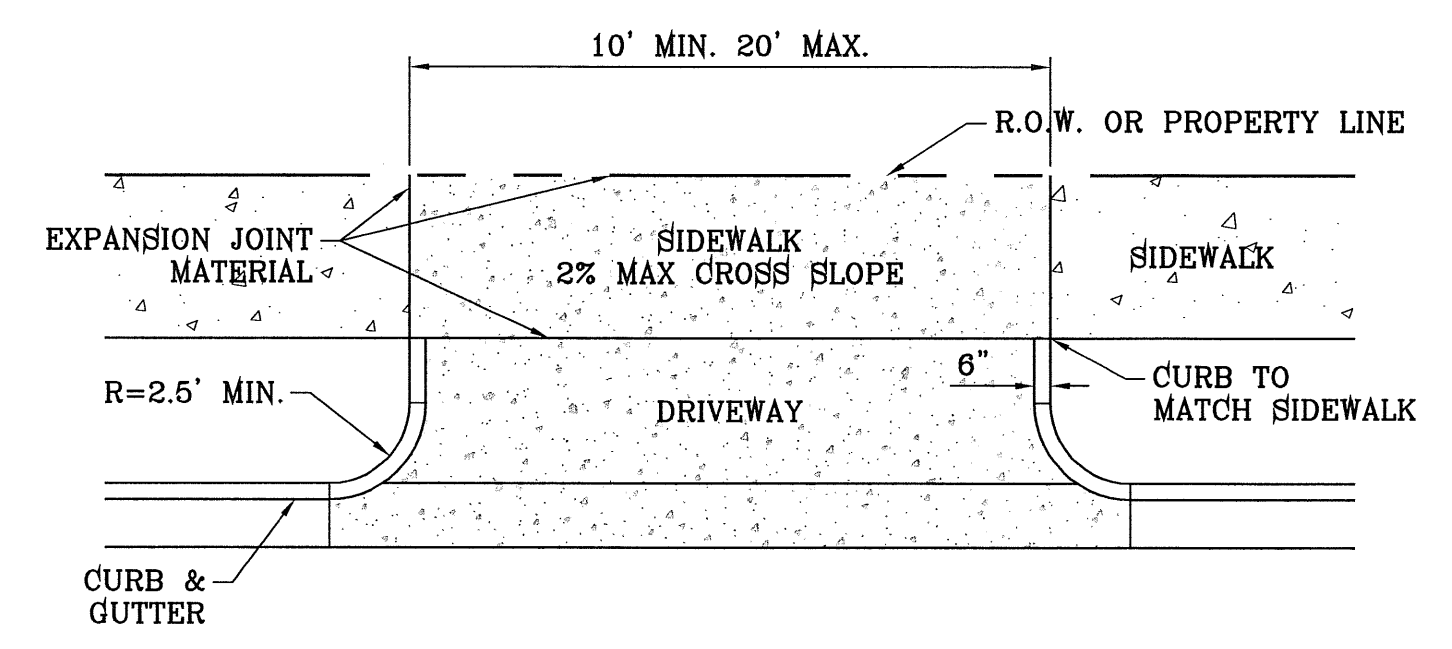
**TYPICAL WHEELCHAIR RAMP AT 6\"/>**



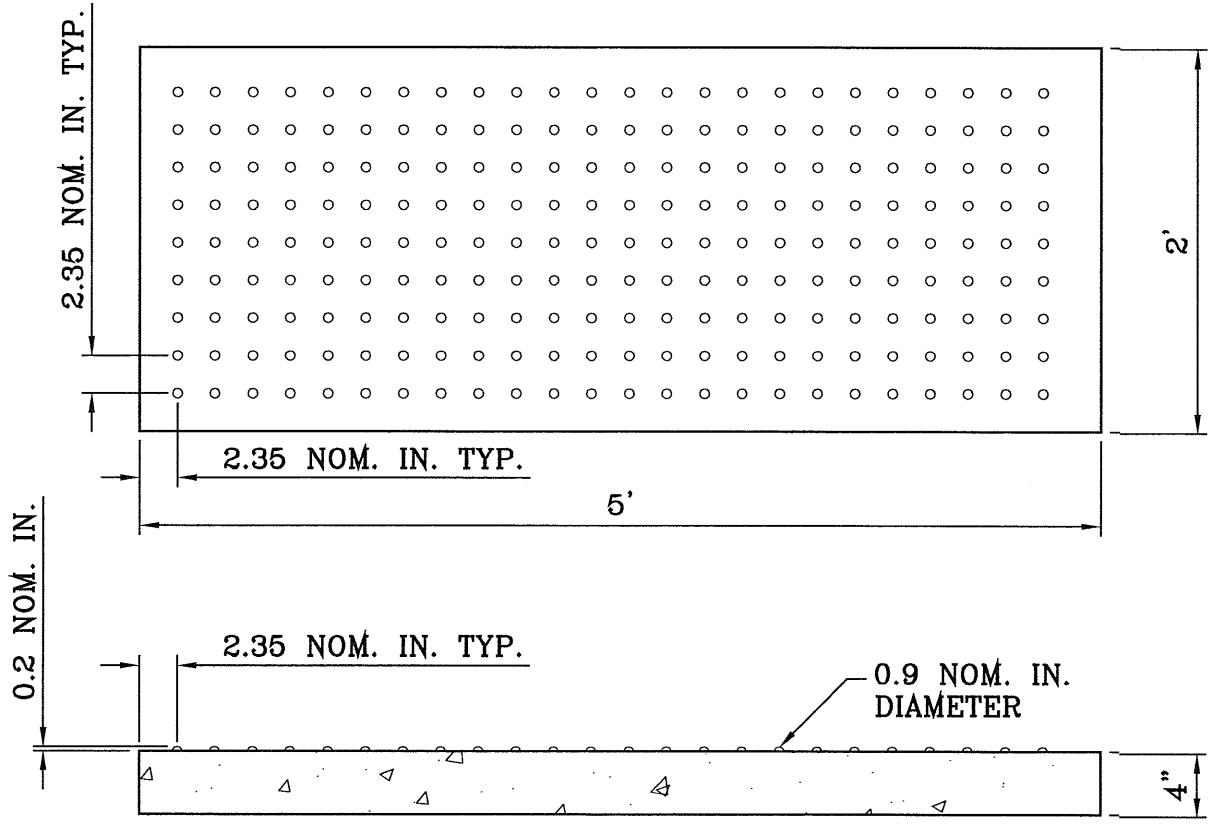
**RESIDENTIAL DRIVEWAYS 6-16**  
SCALE: 1"=10'



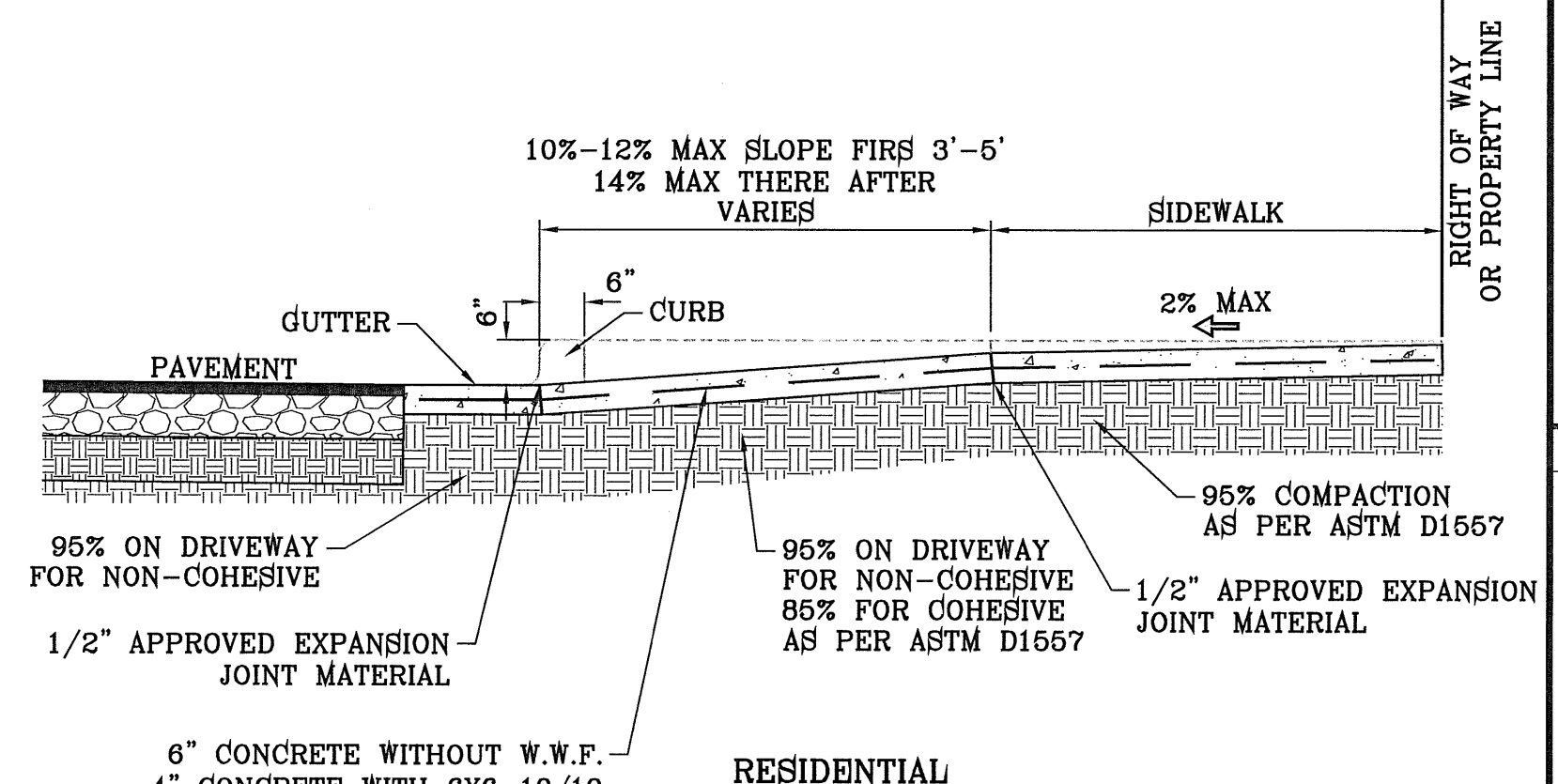
**TYPICAL RESIDENTIAL DRIVEWAY WITH ROLLED CURB**  
SCALE: 1"=10'



**RESIDENTIAL DRIVEWAY DETAIL**  
SCALE: 1"=6'



**TRUNCATED DOMES**  
SCALE: 1"=1'



**RESIDENTIAL DRIVEWAY SECTION**  
SCALE: 1"=2'

**NOTE:**  
A MINIMUM PARKING SPACE LENGTH OF TWENTY (20) FEET SHALL BE PROVIDED MEASURED FROM THE PROPERTY LINE TO A GARAGE, CARPORT OR PARKING SPACE.

**NOTE:**  
A MINIMUM PARKING SPACE LENGTH OF TWENTY (20) FEET SHALL BE PROVIDED MEASURED FROM THE PROPERTY LINE TO A GARAGE, CARPORT OR PARKING SPACE.

BENCHMARK	NAVDD88 DATUM
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF JOHN HAYES ST. AND SPANISH POINT LA.	ELEVATION 4017.47
DATE	10/23/11
REVISIONS	REVISIONS AS PER 8/24/11 REDLINES
BY	O.M.
	REVISIONS AS PER 10/19/11 REDLINES
	O.M.

**PROJECT NAME**  
**TERRA DEL ESTE UNIT SIXTY SEVEN**

BEING PORTION OF SECTION 37, BLOCK 70, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS  
CONTAINING: 166.254± ACRES

SCALE	HORIZ: AS NOTED
	VERT: ---
ENGINEER'S SEAL	DATE: MAY 2012
ENGINEER'S SEAL NOT REQUIRED. THIS SHEET IS PRODUCED FROM CITY SUBDIVISION DESIGN STANDARDS	DESIGN BY: YC
	INITIATED BY: BRG/OM
	CHECKED BY: YC
	JOB NO.: 1110-18

**CONDE INC.**  
ENGINEERING / PLANNING SURVEYING / GPS  
6080 SURETY DR. STE 100  
EL PASO, TEXAS 79905  
PHONE: (915) 592-0283  
FAX: (915) 592-0286

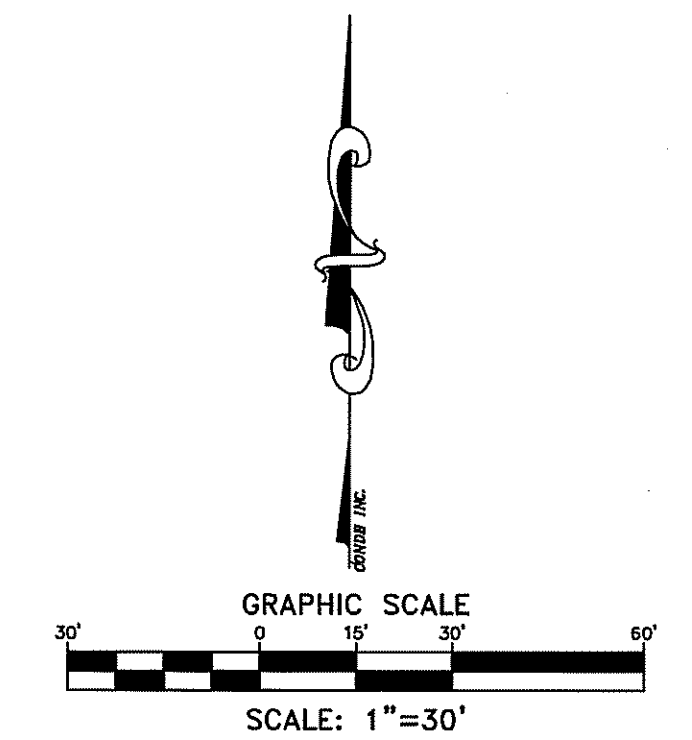
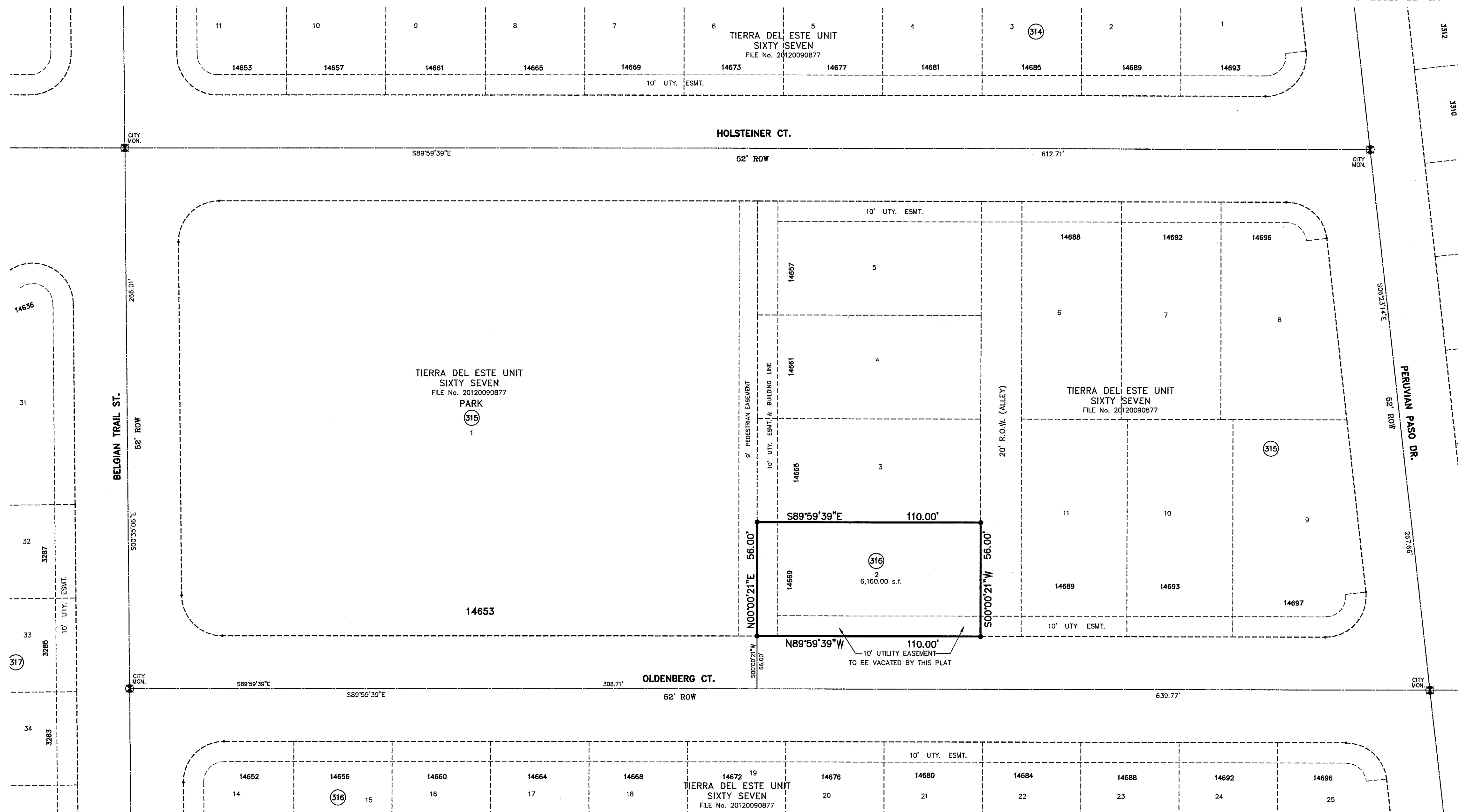
**CONDE INC.**  
REGISTRATION NO. F-2321



**STANDARD DETAILS**

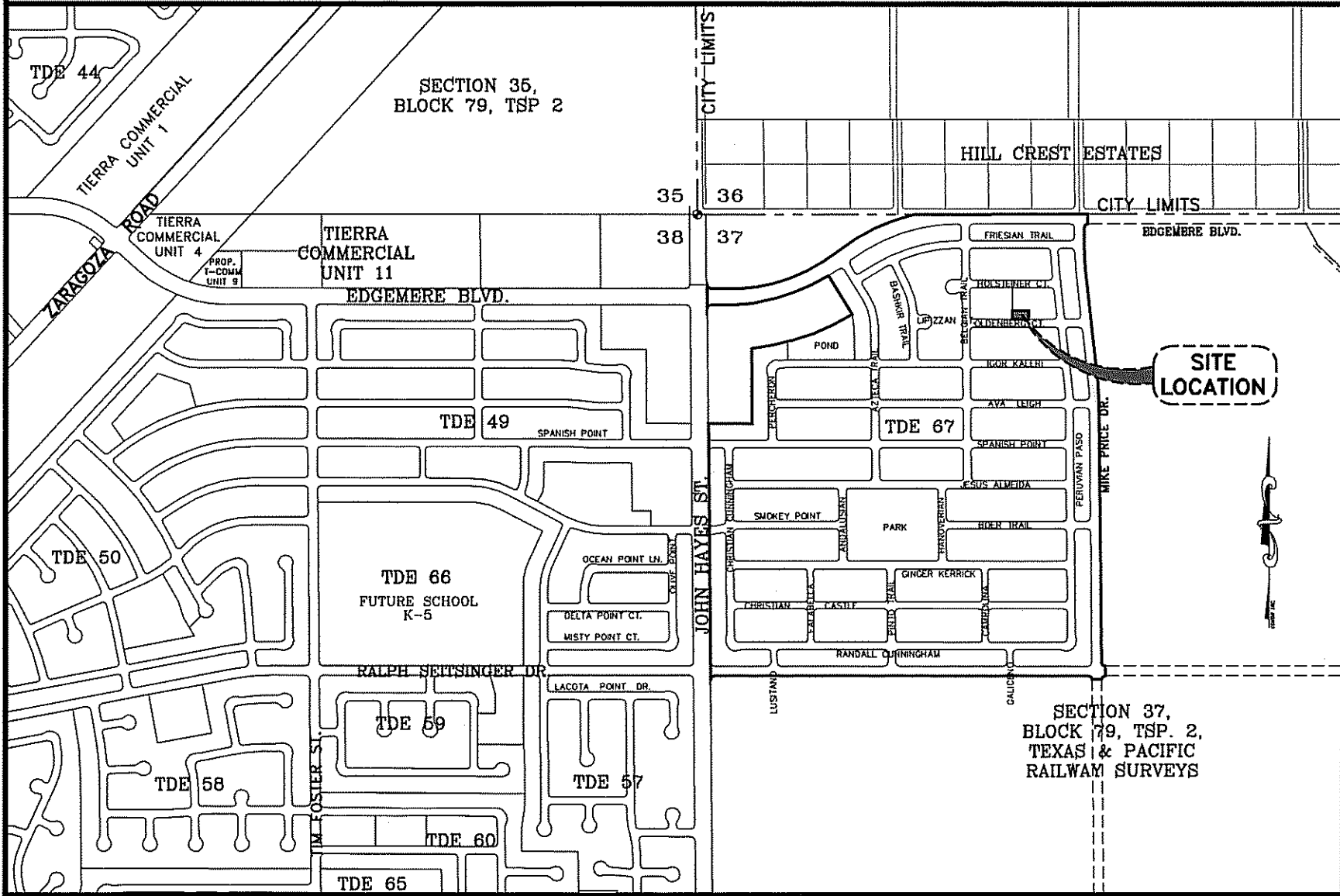
# TIERRA DEL ESTE UNIT SIXTY SEVEN REPLAT "A"

BEING A REPLAT OF LOT 2, BLOCK 315, TIERRA DEL ESTE UNIT SIXTY SEVEN, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 0.1414± ACRES



**NOTES:**  
 WATER AND SEWER SERVICES HAVE BEEN EXTENDED TO THIS SUBDIVISION (TIERRA DEL ESTE UNIT 67A) FROM EXISTING EL PASO WATER UTILITIES/PUBLIC SERVICE BOARD FACILITIES.  
 THE INSTRUMENT ASSURING THE CERTIFICATION THAT WATER AND SEWER SERVICES FACILITIES DESCRIBED BY THIS PLAT ARE IN COMPLIANCE WITH THE MODEL RULES ADOPTED UNDER SECTION 16.343, TEXAS WATER CODE IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.  
 INSTRUMENT No. \_\_\_\_\_ DATE \_\_\_\_\_  
 TAX CERTIFICATE FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORDS SECTION.  
 INSTRUMENT No. 20150005124 DATE 1/27/15  
 RESTRICTIVE COVENANTS FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.  
 INSTRUMENT No. \_\_\_\_\_ DATE \_\_\_\_\_  
 LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES.  
 "U.S. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS".  
 SET 1/2" REBAR WITH CAP MARKED TX 5152 AT ALL EXTERIOR BOUNDARY CORNERS UNLESS OTHERWISE NOTED.  
 ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 490212 0175 B, DATED SEPTEMBER 4, 1991 THIS PROPERTY IS IN FLOOD HAZARD ZONE X OUTSIDE THE 500 YEAR FLOOD-PLAIN.  
 REASON FOR REPLAT: TO VACATE THE 10' UTILITY EASEMENT ALONG THE SOUTHERLY PROPERTY LINE.

LOCATION MAP SCALE: 1"=1000'



**DEDICATION**  
 CAREFREE HOMES II, L.P., property owner of this land hereby present this plat and dedicate to the use of the public, buried service conduits and pipes for underground utilities, and the right to ingress and egress for service and construction and the right to trim interfering trees and shrubs.  
 Witness our signature this 2 day of December, 2014.  
 BY: Shawn Gray  
 Shawn Gray, President

**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 18th day of December, 2014.  
 DANA A. CORZANO Executive Secretary  
 Approved for filing this 18th day of December, 2014.  
 City Development Director

**ACKNOWLEDGEMENT**  
 STATE OF TEXAS  
 COUNTY OF EL PASO  
 Before me, the undersigned authority, on this day personally appeared Shawn Gray, President of CAREFREE HOMES II, L.P., 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 of said company for the purpose and considerations herein expressed.  
 Given under my hand and seal of office this 2 day of December, 2014.  
 Notary Public in and for El Paso County

**FILING**  
 Filed and recorded in the office of the County Clerk of El Paso County, Texas, this 27th day of January, 2015, A.D. in File No. 20150005123  
 Charlie Quiroga By Deputy  
 Prepared by and under the supervision of:  
 YVONNE CONDE CURRY, P.E.  
 Registered Professional Engineer  
 Registration No. 64648  
 This plat represents a survey made on the ground by me or under my supervision and complies with the current Texas Board of Professional Land Surveyors and Technical Standards.  
 Ron R. Conde, Registered Professional Land Surveyor  
 Texas License No. 5152

DATE OF PREPARATION: OCTOBER 01, 2014  
**CONDE INC.**  
 ENGINEERING / PLANNING  
 GPS / SURVEYING / CAD  
 6080 SURETY DR. STE 100  
 EL PASO, TEXAS 79905  
 PHONE (915) 582-0283  
 FAX (915) 582-0288

ANA MARIA NAVA  
 Notary Public, State of Texas  
 My Commission Expires August 27, 2017

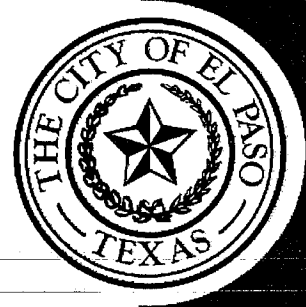
STATE OF TEXAS  
 YVONNE CONDE CURRY  
 64648  
 LICENSED PROFESSIONAL ENGINEER

STATE OF TEXAS  
 RON R. CONDE  
 LICENSED PROFESSIONAL LAND SURVEYOR  
 5152

*Dedicated to Outstanding Customer Service for a Better Community*

**SERVICE SOLUTIONS SUCCESS**

**CITY DEVELOPMENT DEPARTMENT**



May 9, 2013

Yvonne C. Curry, P.E., Project Manager  
Conde Inc.  
6080 Surety Drive, Suite 100  
El Paso, Texas 79905


Re: Tierra del Este Unit 67 - Vesting Petition

Dear Ms. Curry,

In accordance with Title 1.04.070.C of the El Paso City Code, you are hereby informed that the vested rights petition dated 5/6/13 for Tierra del Este Unit 67 has been granted. The subdivision is subject to the landscape code requirements that were applicable at the time the subdivision application was submitted for initial review (November 2010). At that time, street trees were not required for single family residential lots.

Please feel free to contact me if you need further assistance.

Sincerely,

  
Carlos Gallinar, AICP, CNU-A  
Deputy Director – Planning

Mayor  
John F. Cook

City Council

*District 1*  
Ann Morgan Lilly

*District 2*  
Susie Byrd

*District 3*  
Emma Acosta

*District 4*  
Carl L. Robinson

*District 5*  
Dr. Michiel R. Noe

*District 6*  
Eddie Holguin Jr.

*District 7*  
Steve Ortega

*District 8*  
Cortney Carlisle Niland

City Manager  
Joyce A. Wilson



Two Civic Center Plaza  
El Paso, TX 79901  
(915) 541-4000