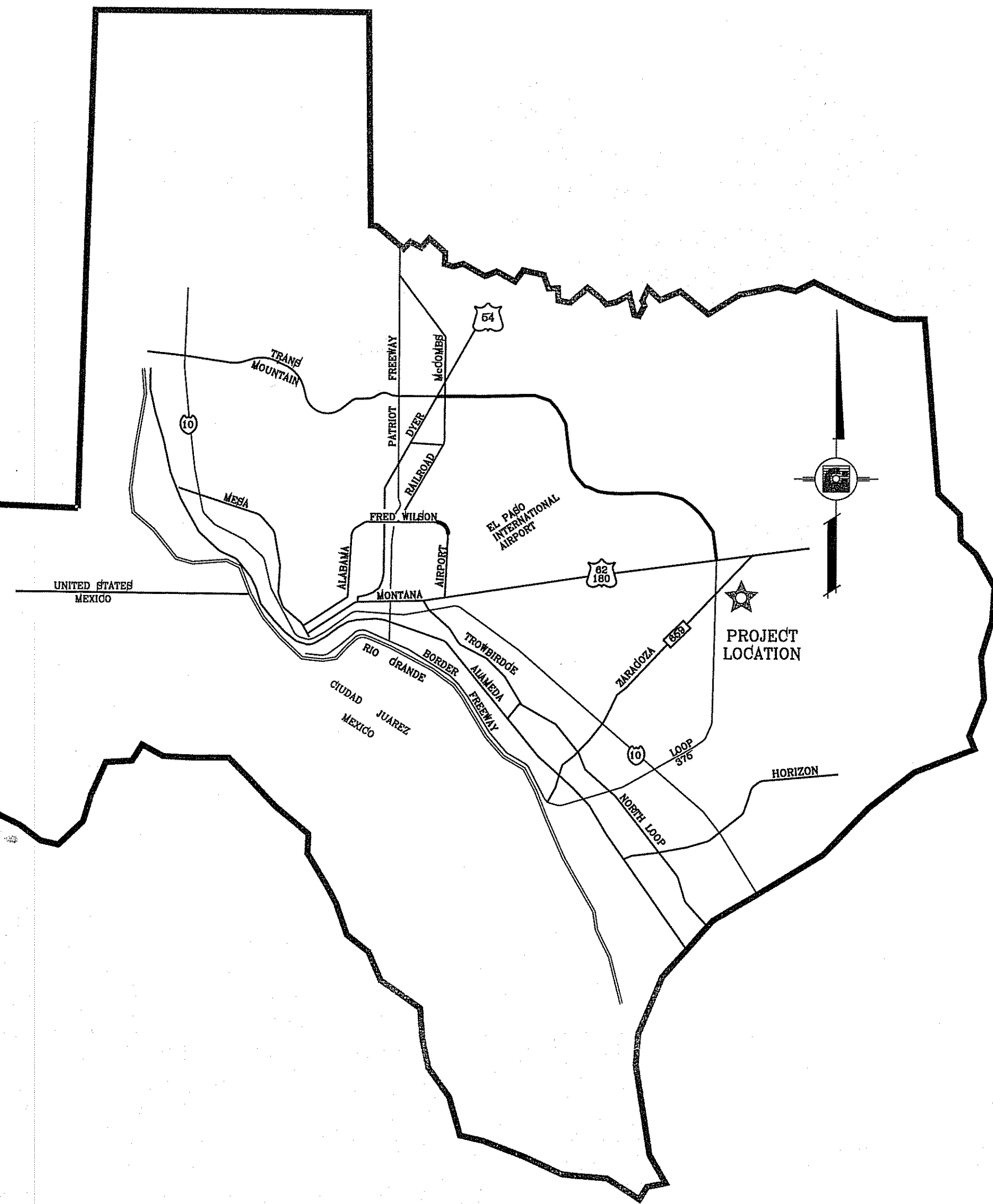
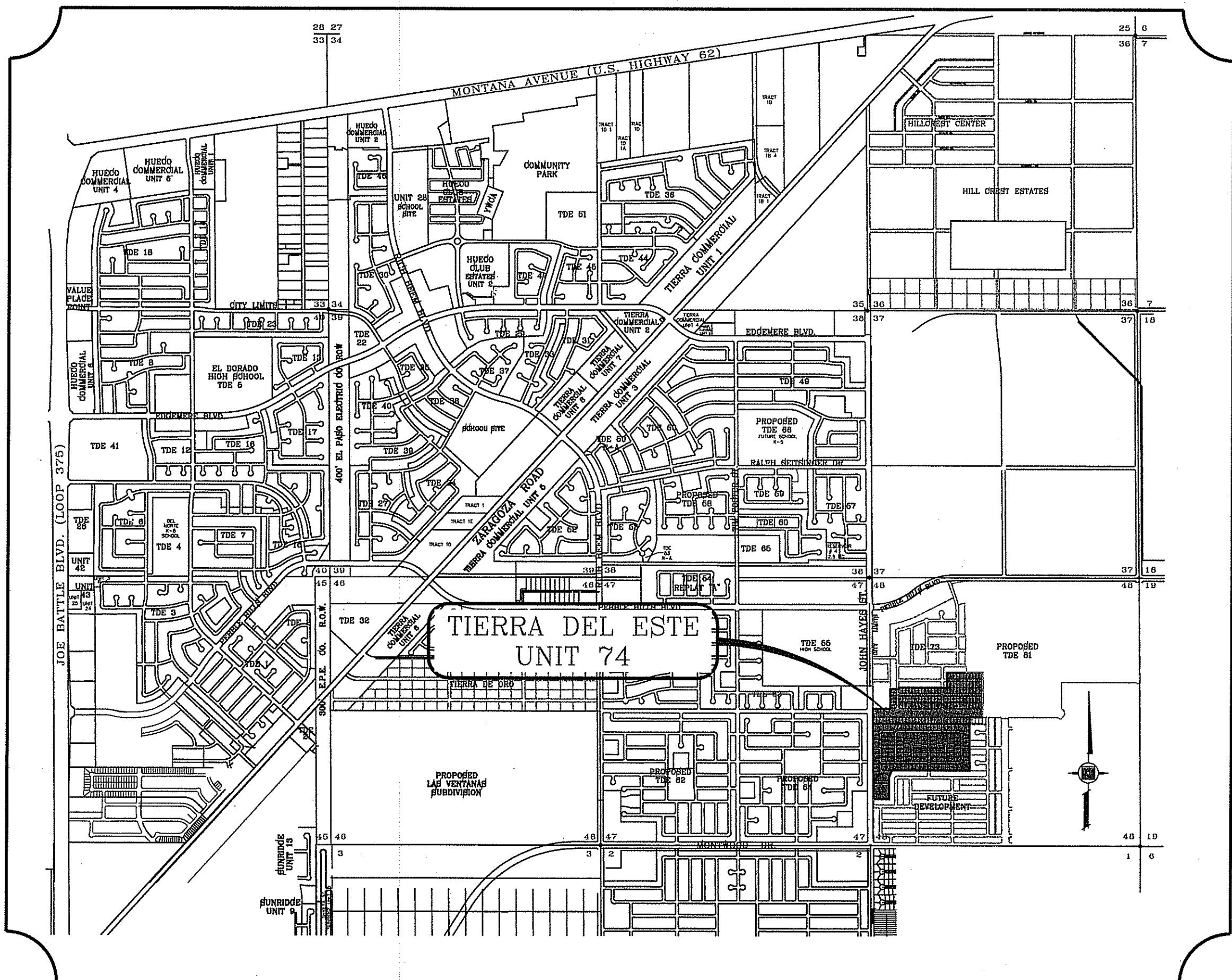


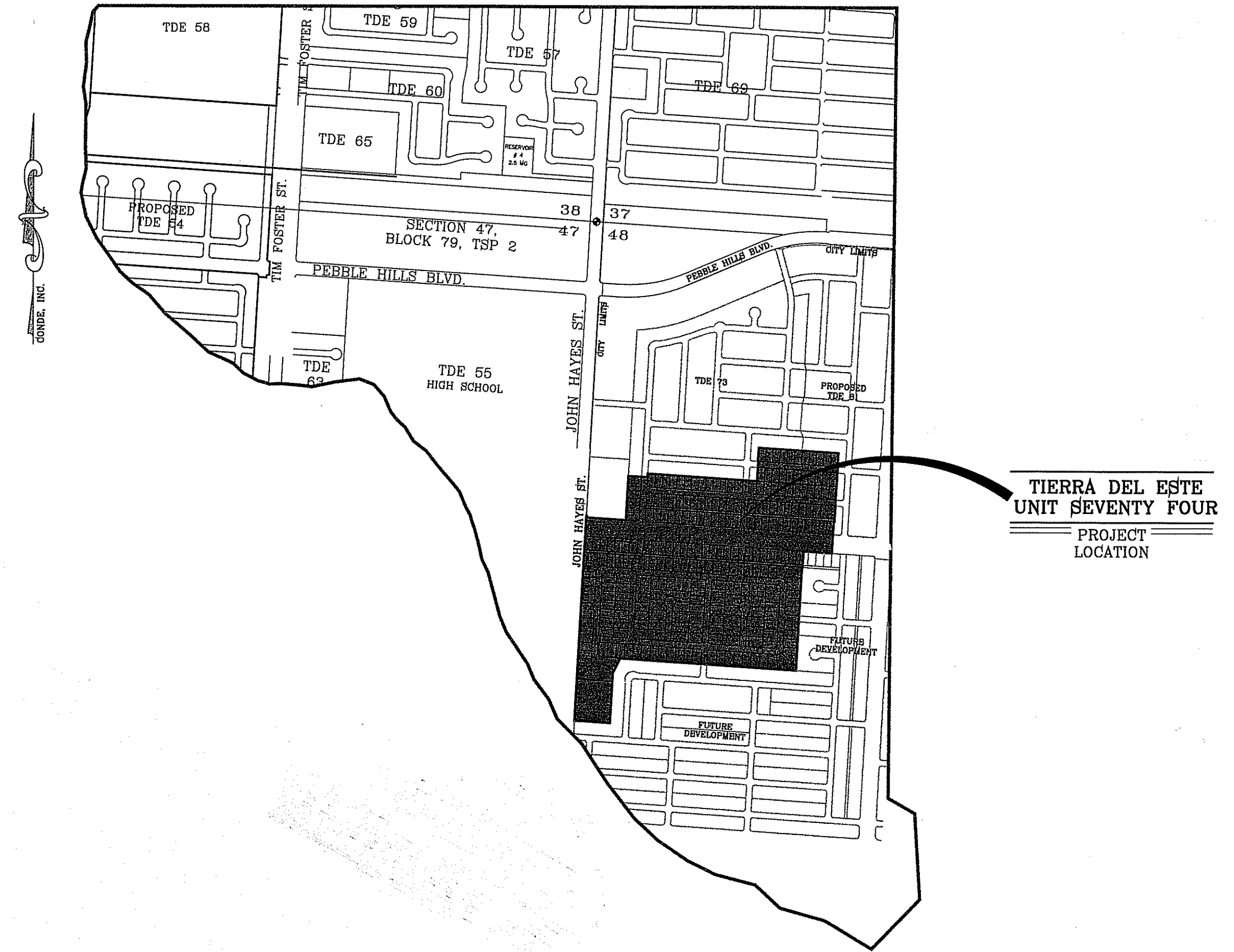
El Paso



LOCATION MAP SCALE: 1"=1000'



VICINITY MAP



STREET IMPROVEMENTS

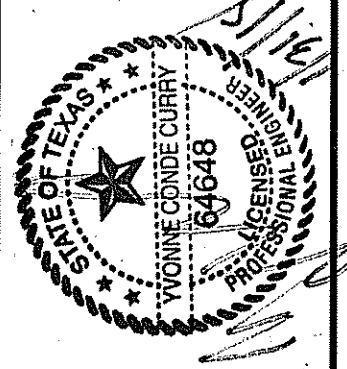
I N D E X

TITLE	SHEET No.	TITLE	SHEET No.
COVER SHEET	1 of 53	TIERRA AVION PL.	29 of 53
PLAT	2-3 of 53	PETRALIA AVE.	30-32 of 53
GRADING PLAN	4-5 of 53	WILHOIT PL.	33-34 of 53
DRAINAGE PLAN	6-7 of 53	EARLY MORN AVE.	35 of 53
SWPPP & GSP PLAN AND NOTES	8-10 of 53	TIERRA CALI CT.	36 of 53
GRADING SECTIONS	11 of 53	ALLEY A-1, A-2	37-39 of 53
TIERRA PLATINO PL.	12 of 53	ALLEY B-1, B-2 & B-3	40-42 of 53
CESAR CORDOVA PL. / TIERRA CAMPEON AVE.	13-16 of 53	STRUCTURE 1	43-44 of 53
TIERRA CAMPEON AVE. / TIERRA LEJANA PL.	16-17 of 53	STORM DRAIN INLET DETAILS	45 of 53
TIERRA LEJANA PL. / TIERRA MAGNOLIA AVE.	17-19 of 53	STRUCTURES 2-4	46 of 53
CHARLES FOSTER AVE.	20-23 of 53	STANDARD DETAILS	47-48 of 53
CHARLES FOSTER AVE. (ADDITIONAL ROADWAY)	24 of 53	POND AND POND DETAILS	49 of 53
TIERRA MURCIA ST.	25-26 of 53	DRAINAGE STRUCTURES DETAILS	50-51 of 53
TIERRA OVIEDO AVE.	27 of 53	ILLUMINATION AND TRAFFIC CONTROL	52-53 of 53
TIERRA PRIMERA PL.	28 of 53	WATER AND SEWER	1-8 of 8
		LANDSCAPE AND IRRIGATION	

PARKS DEPARTMENT
 REVIEWED BY: *Antonio del...* 02/01/2018

CITY DEVELOPMENT DEPARTMENT
 Reviewed For Conformance For Condition Related To:
 - Grading & Drainage
 - Retaining Rock Walls
 - Windable Ramps
 - On Site Parking of Storm Water
 - Driveways
 - On Site Parking of Storm Water
 Constructor Must Call 24 Hours Prior To Construction for Inspections
Chedda J... 02/01/2018

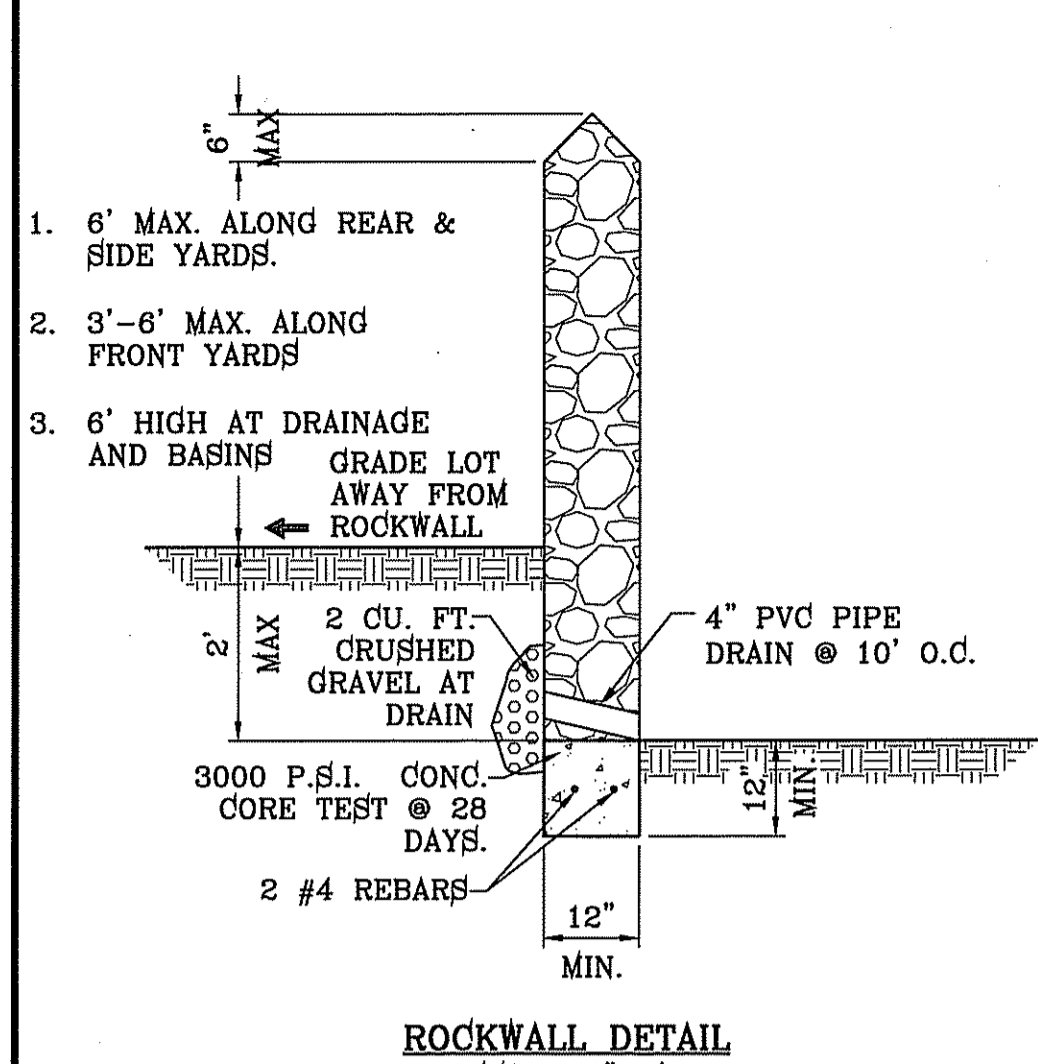
PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES



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 6080 SURETY DR., STE 100 EL PASO, TEXAS 79906



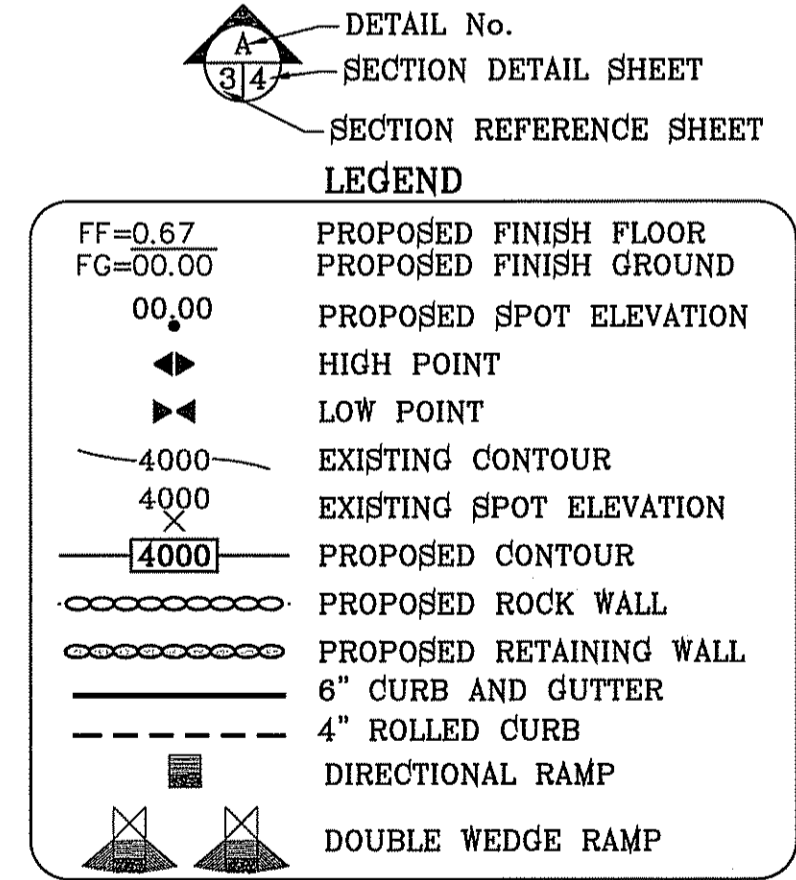
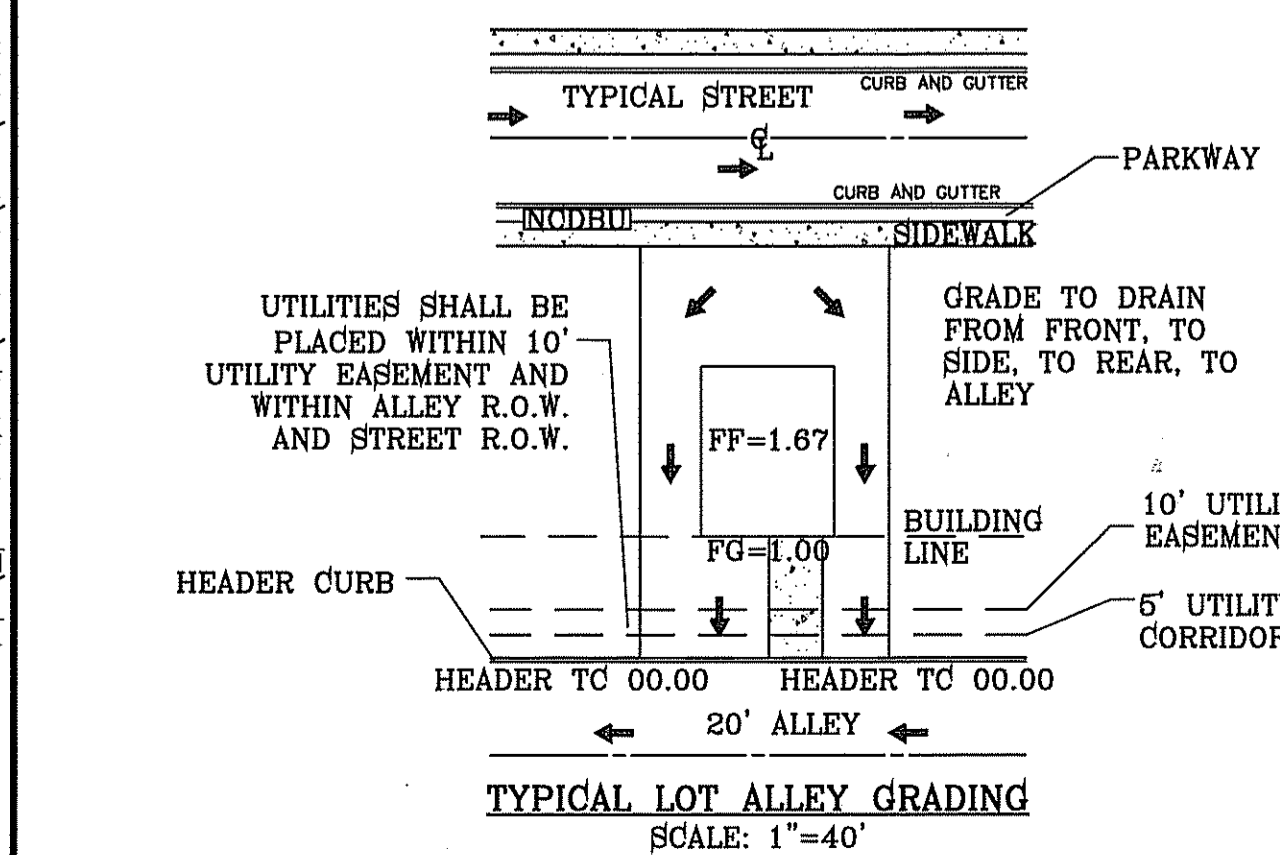
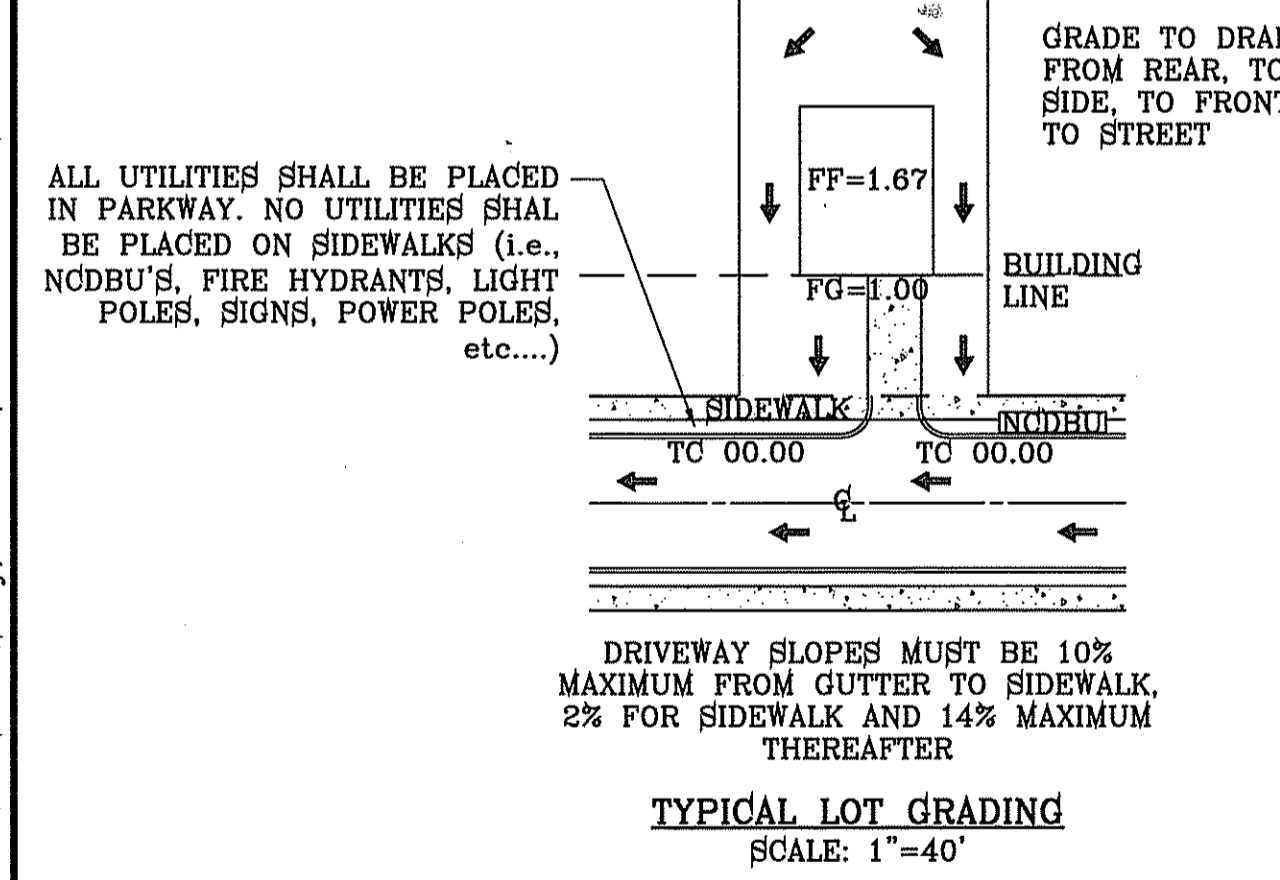
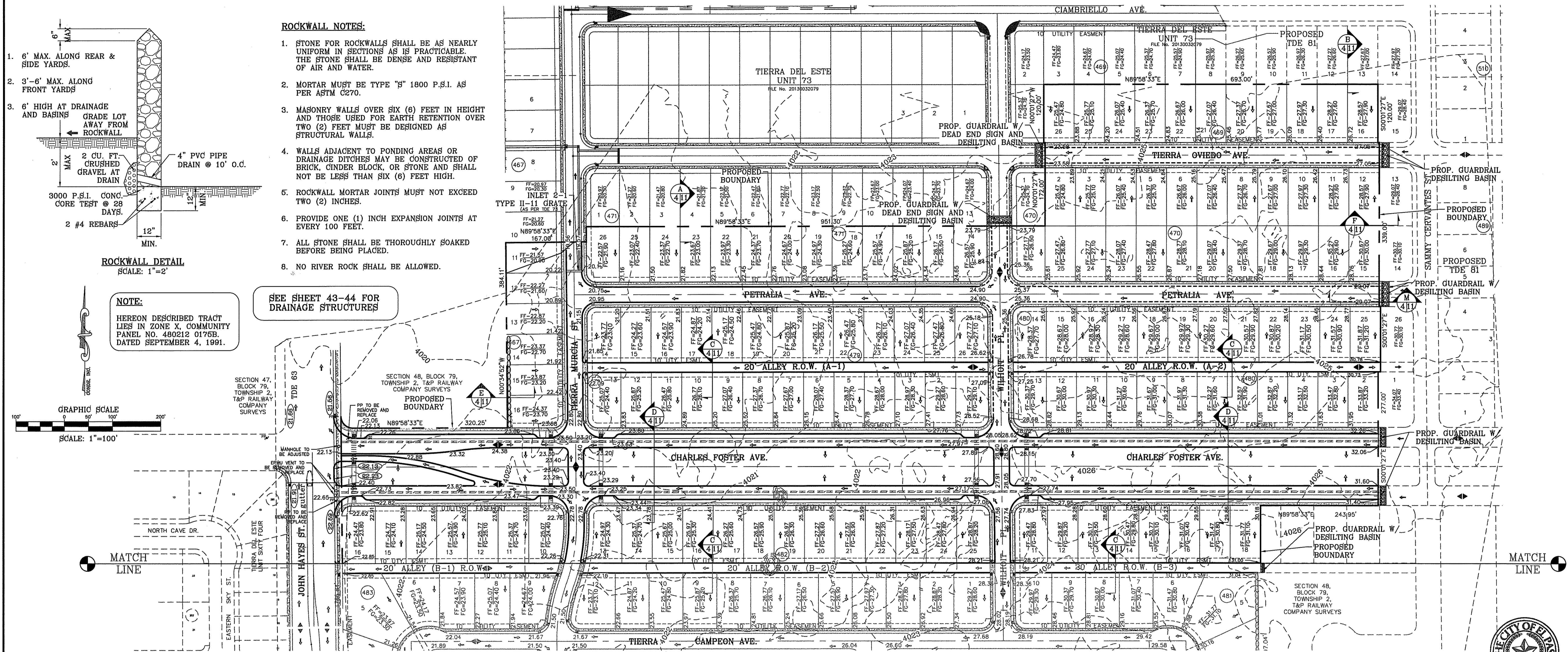
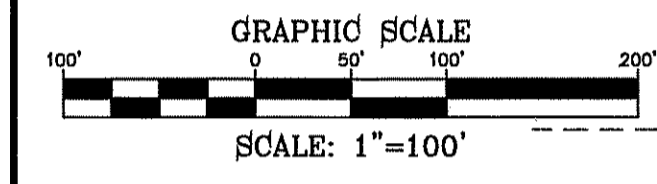
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- ROCKWALL NOTES:**
1. STONE FOR ROCKWALLS SHALL BE AS NEARLY UNIFORM IN SECTIONS AS IS PRACTICABLE. THE STONE SHALL BE DENSE AND RESISTANT OF AIR AND WATER.
 2. MORTAR MUST BE TYPE "S" 1800 P.S.I. AS PER ASTM C270.
 3. MASONRY WALLS OVER SIX (6) FEET IN HEIGHT AND THOSE USED FOR EARTH RETENTION OVER TWO (2) FEET MUST BE DESIGNED AS STRUCTURAL WALLS.
 4. WALLS ADJACENT TO PONDING AREAS OR DRAINAGE DITCHES MAY BE CONSTRUCTED OF BRICK, CINDER BLOCK, OR STONE AND SHALL NOT BE LESS THAN SIX (6) FEET HIGH.
 5. ROCKWALL MORTAR JOINTS MUST NOT EXCEED TWO (2) INCHES.
 6. PROVIDE ONE (1) INCH EXPANSION JOINTS AT EVERY 100 FEET.
 7. ALL STONE SHALL BE THOROUGHLY SOAKED BEFORE BEING PLACED.
 8. NO RIVER ROCK SHALL BE ALLOWED.

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

SEE SHEET 43-44 FOR DRAINAGE STRUCTURES



18.44.220 - PERMIT CLOSEOUT PROCEDURE:
AFTER THE PERMITTEE COMPLETES THE GRADING UNDER THE PERMIT, THE PERMIT SHALL BE CLOSED. AS PART OF THE CLOSEOUT PROCEDURE, THE APPLICANT MUST SUBMIT THE FOLLOWING TO THE CITY:

- A STATEMENT FROM THE ENGINEER OF RECORD THAT STATES, "THE GRADING OPERATION HAS BEEN SUBSTANTIALLY COMPLETED AND GENERALLY CONFORMS TO THE APPROVED SET OF PLANS". THE PERMITTEE SHALL CALL THE PERMIT OFFICIAL TO ESTABLISH THE BEGINNING OF THE WARRANTY PERIOD AND TO NOTIFY THE PERMIT OFFICIAL THAT THE GSP HAS BEEN IMPLEMENTED.
- A COPY OF THE NOTICE OF TERMINATION FILED WITH THE STATE OR DATED CONSTRUCTION SITE NOTICE, IF APPLICABLE, IN ACCORDANCE WITH CHAPTER 16.

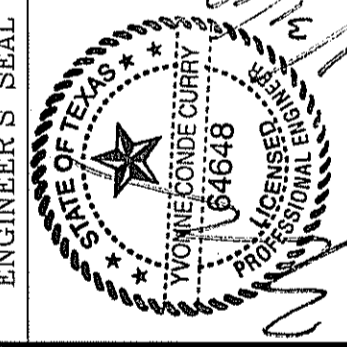
THE CITY WILL ISSUE A LETTER STATING GENERAL CONFORMANCE TO THE PERMIT HAS BEEN MET AND THAT THE WARRANTY PERIOD REQUIREMENTS WILL CONTINUE TO BE IN EFFECT.

18.44.090 - WARRANTY:
ANY PERSON ISSUED A PERMIT SHALL AGREE WARRANT AND MAINTAIN THE AREA DESCRIBED IN THE PERMIT FOR A PERIOD OF TWO YEARS AFTER THE PERMIT IS CLOSED BY THE CITY PURSUANT TO SECTION 18.44.220, OR UNTIL A BUILDING PERMIT IS ISSUED FOR THE PURPOSE OF MAINTAINING A STABILIZED SITE IN ACCORDANCE WITH THE APPROVED GSP, WHICHEVER FIRST OCCURS (THE "WARRANTY" OR "WARRANTY PERIOD"). THE CITY MAY CONDUCT INSPECTIONS OF THE PERMITTED AREA THROUGHOUT THE WARRANTY PERIOD AND REQUIRE MAINTENANCE AND CORRECTION OF THE WORK BY THE PERMIT HOLDER. FAILURE OF THE PERMIT HOLDER TO CORRECT THE WORK SHALL CONSTITUTE A FAILURE TO COMPLY WITH THE PROVISIONS OF THIS CHAPTER.

- 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/REESTABLISHED 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.

- GENERAL NOTES:**
1. IMPROVEMENT WITHIN CITY R.O.W. SHALL COMPLY WITH TITLE 19-SUBDIVISION ORDINANCE-"SUBDIVISION IMPROVEMENT DESIGN STANDARDS".
 2. CONTRACTOR SHALL PROVIDE TEMPORARY MEASURES FOR THE MANAGEMENT OF STORM WATER RUNOFF ENTERING, EXITING AND ON SITE DURING THE COURSE OF THE CONSTRUCTION. TEMPORARY TERMS DESILTING BASIN, CHECK DAMS, PIPING ETC. SHALL BE PROVIDED AS NECESSARY.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND NOTIFICATION WITH ALL APPURTENANT UTILITY COMPANIES WHOSE LINES ARE WITHIN THE CONSTRUCTION CONTRACT AREA. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 48 HOURS PRIOR TO ANY CONSTRUCTION ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE PHYSICALLY AND FINANCIALLY FOR ANY DISRUPTION TO SERVICE EITHER ON SITE OR OFF SITE DUE TO BREAKAGE OF UTILITY LINES.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DATA SHOWN ON THE PLANS. IF DISCREPANCIES ARE FOUND THE CONTRACTOR SHALL NOTIFY THE OWNER OR ENGINEER IMMEDIATELY SO THAT PROPER CORRECTIONS CAN BE MADE.
 5. EQUIPMENT OF A CONDITION AND DESIGN SUFFICIENT TO ENSURE A THOROUGH AND WORKMANLIKE PROSECUTION OF THE PROJECT SHALL BE USED AT ALL TIMES.
 6. ALL ELEVATIONS ARE TO CITY DATUM UNLESS OTHERWISE NOTED.
 7. ALL WASTE MATERIALS INCLUDING EXCAVATION, CURBING, PAVEMENT, ETC. SHALL BE DISPOSED OF AS DESIGNATED BY THE OWNER OR HIS REPRESENTATIVE.
 8. THE CONTRACTOR SHALL NOTIFY THE OWNER, OR HIS REPRESENTATIVE, IN SUFFICIENT TIME IN ADVANCE OF DELIVERY OF MATERIALS TO BE SUPPLIED BY HIM UNDER THIS PROJECT, IN ORDER THAT THE OWNER MAY ARRANGE, IF DESIRED, INSPECTION AND TESTING FOR SAME.
 9. SAFE AND REASONABLE ACCESS FOR THIS SITE MUST BE MAINTAINED AT ALL TIMES DURING THE LIFE OF THE PROJECT.
 10. ANY CAVITY REMAINING OPEN DURING NONWORKING HOURS MUST BE GUARDED BY FLASHER TYPE BARRICADES WITH STRINGERS PLACED BETWEEN THE TOPS OF THE BARRICADES.
 11. DEVELOPER SHALL COMPLY WITH SECTION 13.08.170 "EXCESSIVE PAVING CUTS" AS PER EL PASO MUNICIPAL CODE.

- GENERAL EARTHWORK NOTES:**
1. ALL GRADING SHALL CONFORM TO THE CITY OF EL PASO GRADING ORDINANCE SECTION 18.44.
 2. THE CONTRACTOR SHALL CARRY ON HIS WORK WITH SPECIAL CARE AT ALL TIMES TO MAINTAIN THE NATURAL SURROUNDINGS AND EXISTING STRUCTURES IN AN UNDAUNTED CONDITION.
 3. NATURAL SUBGRADES TO SUPPORT STRUCTURAL FILL OR PAVEMENTS SHOULD BE STRIPPED OF ALL VEGETATION OR ORGANIC TOPSOIL. THE EXPOSED SUBGRADE SHOULD BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 6 INCHES AND RECOMPACTED TO A MINIMUM OF 96% OF MAXIMUM DENSITY AS PER ASTM D-1557. ALL BACKFILL MATERIAL TO BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED EIGHT (8) INCH LIFTS AND COMPACTED AS BEFORE.
 4. TEMPORARY DUST AND EROSION CONTROL MEASURES SHALL BE PROVIDED FOR AT ALL TIMES.
 5. ANY EROSION OF THE GRADED SITE DURING THE COURSE OF THE PROJECT SHALL BE CORRECTED PRIOR TO FINALIZATION OF THE PROJECT AT NO COST TO THE OWNER.
 6. ALL SLOPES AND SWALES WITHIN LOTS SHALL BE MAINTAINED BY LOT OWNER.
- CONSTRUCTION NOTES:**
1. ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
 2. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
 3. 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
 4. REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
 5. RETAINING WALLS WILL BE REQUIRED WHERE THERE IS A GRADE DIFFERENCE OF 2' OR MORE FEET BETWEEN LOTS AND STREET. RETAINING WALL DESIGN AT TIME OF BUILDING PERMIT.
 6. RETAINING ROCK WALLS 4' OR HIGHER SHALL BE CONSTRUCTED BY DEVELOPER AS PART OF THE SUBDIVISION IMPROVEMENTS.



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



GRADING PLAN

TERRA DEL ESTE UNIT SEVENTY FOUR
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.26 NAVD88 DATUM

BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80,637± ACRES

SCALE
HORIZ: 1" = 100'
VERT: 1" = 100'
DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 718-41

ENGINEER'S SEAL
S.C.A.L.E.

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.26 NAVD88 DATUM

REVISIONS

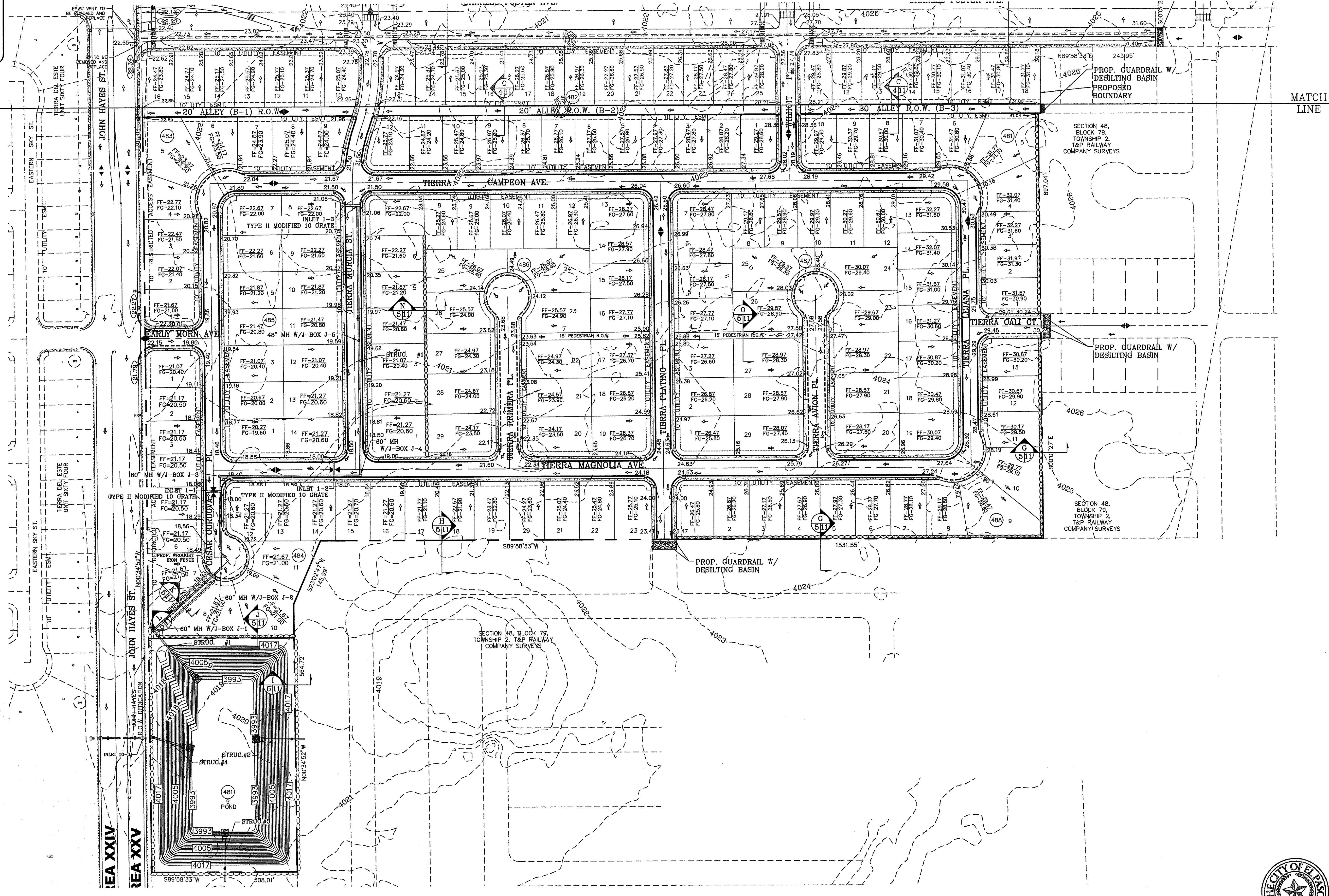
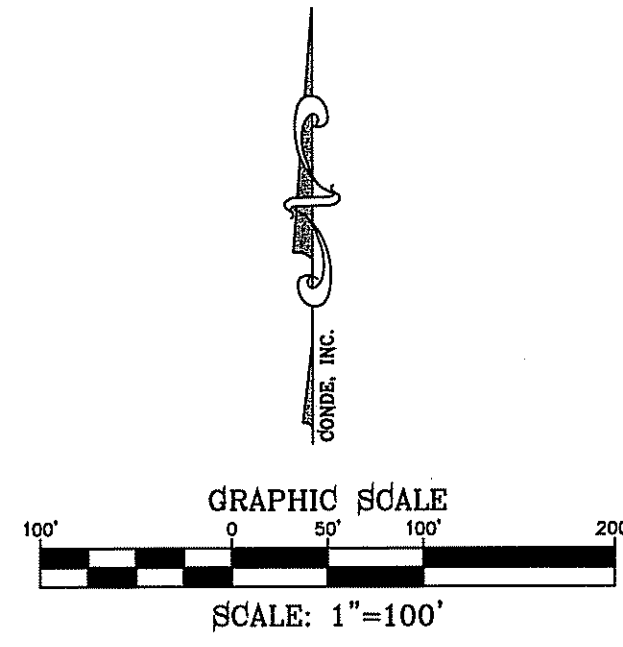
DATE	REVISIONS

LEGEND

- FF=0.67 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
- PROPOSED ROCK WALL
- PROPOSED RETAINING WALL
- 6" CURB AND GUTTER
- 4" ROLLED CURB
- DIRECTIONAL RAMP
- DOUBLE WEDGE RAMP

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

SEE SHEET 43-44 FOR DRAINAGE STRUCTURES



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF GUILLES FOSTER PL AND JOHN HAYES ST. ELEVATION = 4021.28 NAVD88 DATUM

DATE	REVISIONS	BY

TERRA DEL ESTE UNIT SEVENTY FOUR
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

SCALE
 HORIZ: 1" = 100'
 VERT: 1" = 100'
 DATE: MARCH 2016
 DESIGN BY: Y.C.
 INITIATED BY: F.R.
 CHECKED BY: Y.C.
 JOB NO.: 713-41



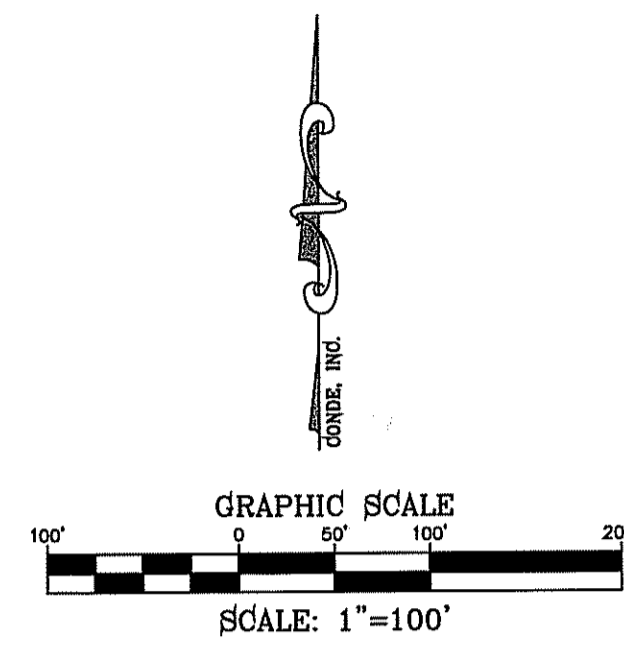
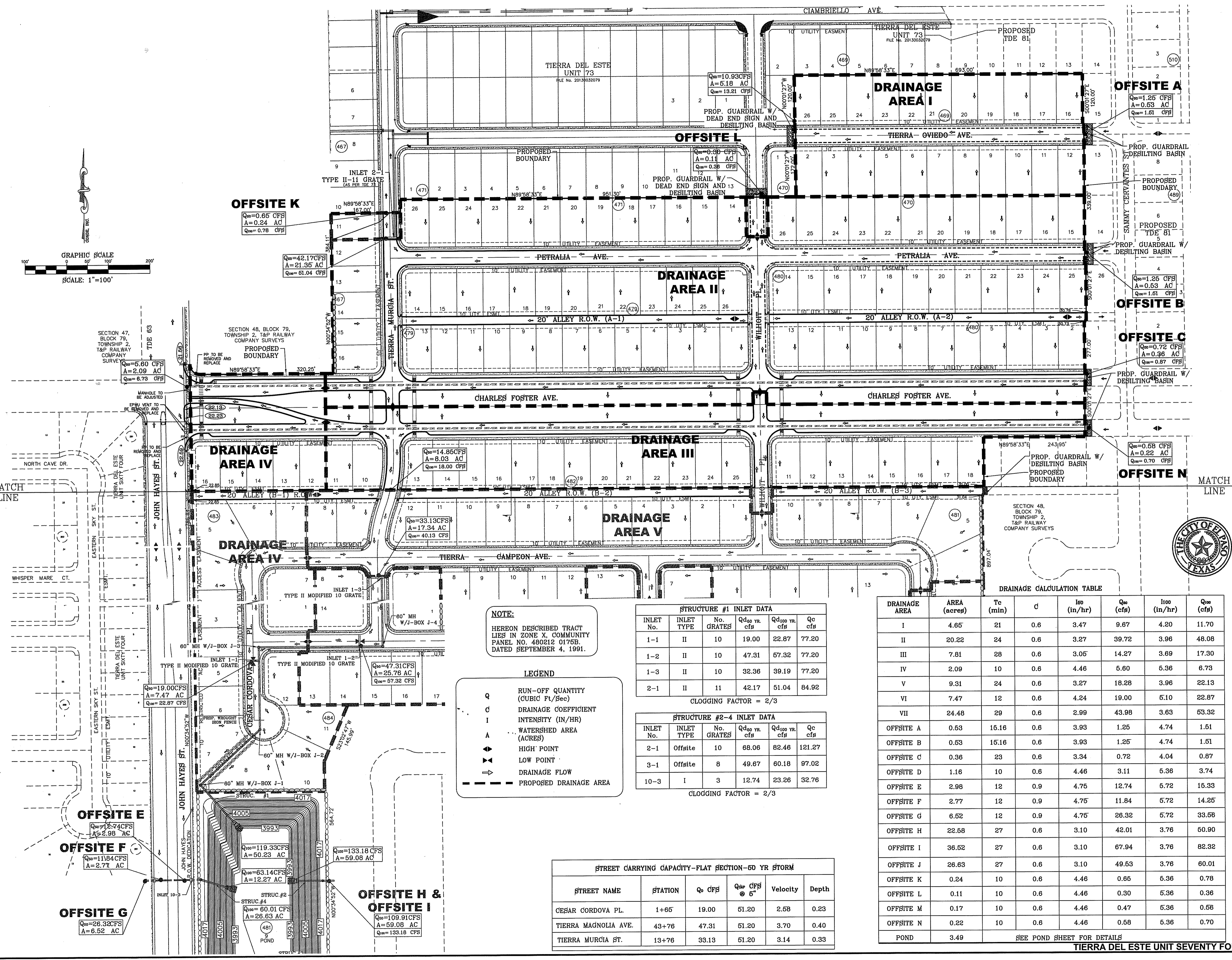
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR, STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0263
 FAX: (915) 592-0286



THE CITY OF EL PASO TEXAS

GRADING PLAN

FILE LOCATION S:\Subdivisions\TDE 74\DWG\GDPL PLOTTED ON Thursday, June 08, 2017 2:05:14 PM BY FELIX RODRIGUEZ



NOTE:
 HEREON DESCRIBED TRACT LIES IN ZONE X, COMMUNITY PANEL NO. 480212 01765, DATED SEPTEMBER 4, 1991.

- LEGEND**
- Q RUN-OFF QUANTITY (CUBIC FT/Sec)
 - C DRAINAGE COEFFICIENT
 - I INTENSITY (IN/HR)
 - A WATERSHED AREA (ACRES)
 - ▲ HIGH POINT
 - ▼ LOW POINT
 - DRAINAGE FLOW
 - - - PROPOSED DRAINAGE AREA

STRUCTURE #1 INLET DATA

INLET No.	INLET TYPE	No. GRATES	Q _{d60} yr. cfs	Q _{d100} yr. cfs	Q _c cfs
1-1	II	10	19.00	22.87	77.20
1-2	II	10	47.31	57.32	77.20
1-3	II	10	32.36	39.19	77.20
2-1	II	11	42.17	51.04	84.92

CLOGGING FACTOR = 2/3

STRUCTURE #2-4 INLET DATA

INLET No.	INLET TYPE	No. GRATES	Q _{d60} yr. cfs	Q _{d100} yr. cfs	Q _c cfs
2-1	Offsite	10	68.06	82.46	121.27
3-1	Offsite	8	49.67	60.18	97.02
10-3	I	3	12.74	23.26	32.76

CLOGGING FACTOR = 2/3

STREET CARRYING CAPACITY-FLAT SECTION-50 YR STORM

STREET NAME	STATION	Q _c CFS	Q _{d60} CFS @ 5'	Velocity	Depth
CESAR CORDOVA PL.	1+65	19.00	51.20	2.58	0.23
TIERRA MAGNOLIA AVE.	43+76	47.31	51.20	3.70	0.40
TIERRA MURCIA ST.	13+76	33.13	51.20	3.14	0.33

DRAINAGE CALCULATION TABLE

DRAINAGE AREA	AREA (acres)	T _c (min)	C	I ₆₀ (in/hr)	Q ₆₀ (cfs)	I ₁₀₀ (in/hr)	Q ₁₀₀ (cfs)
I	4.65	21	0.6	3.47	9.67	4.20	11.70
II	20.22	24	0.6	3.27	39.72	3.96	48.08
III	7.81	28	0.6	3.05	14.27	3.69	17.30
IV	2.09	10	0.6	4.46	5.60	6.36	6.73
V	9.31	24	0.6	3.27	18.28	3.96	22.13
VI	7.47	12	0.6	4.24	19.00	5.10	22.87
VII	24.46	29	0.6	2.99	43.98	3.63	53.32
OFFSITE A	0.53	15.16	0.6	3.93	1.25	4.74	1.51
OFFSITE B	0.53	15.16	0.6	3.93	1.25	4.74	1.51
OFFSITE C	0.36	23	0.6	3.34	0.72	4.04	0.87
OFFSITE D	1.16	10	0.6	4.46	3.11	5.36	3.74
OFFSITE E	2.98	12	0.9	4.75	12.74	5.72	15.33
OFFSITE F	2.77	12	0.9	4.75	11.84	5.72	14.25
OFFSITE G	6.52	12	0.9	4.75	26.32	5.72	33.56
OFFSITE H	22.58	27	0.6	3.10	42.01	3.76	50.90
OFFSITE I	36.52	27	0.6	3.10	67.94	3.76	82.32
OFFSITE J	26.63	27	0.6	3.10	49.53	3.76	60.01
OFFSITE K	0.24	10	0.6	4.46	0.66	6.36	0.78
OFFSITE L	0.11	10	0.6	4.46	0.30	6.36	0.36
OFFSITE M	0.17	10	0.6	4.46	0.47	6.36	0.58
OFFSITE N	0.22	10	0.6	4.46	0.58	6.36	0.70
POND	3.49						

SEE POND SHEET FOR DETAILS

CONDE INC.
 ENGINEERING / PLANNING / SURVEYING / GPS
 6050 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

TIERRA DEL ESTE UNIT SEVENTY FOUR
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

PROJECT NAME: TIERRA DEL ESTE UNIT SEVENTY FOUR
SCALE: HORIZ: 1" = 100' VERT: 1" = 100'
DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: Y.C.
CHECKED BY: Y.C.
JOB NO.: 719-41

REVISIONS

NO.	DATE	DESCRIPTION

CITY OF EL PASO, TEXAS

DRAINAGE PLAN

SHT 6 OF 53

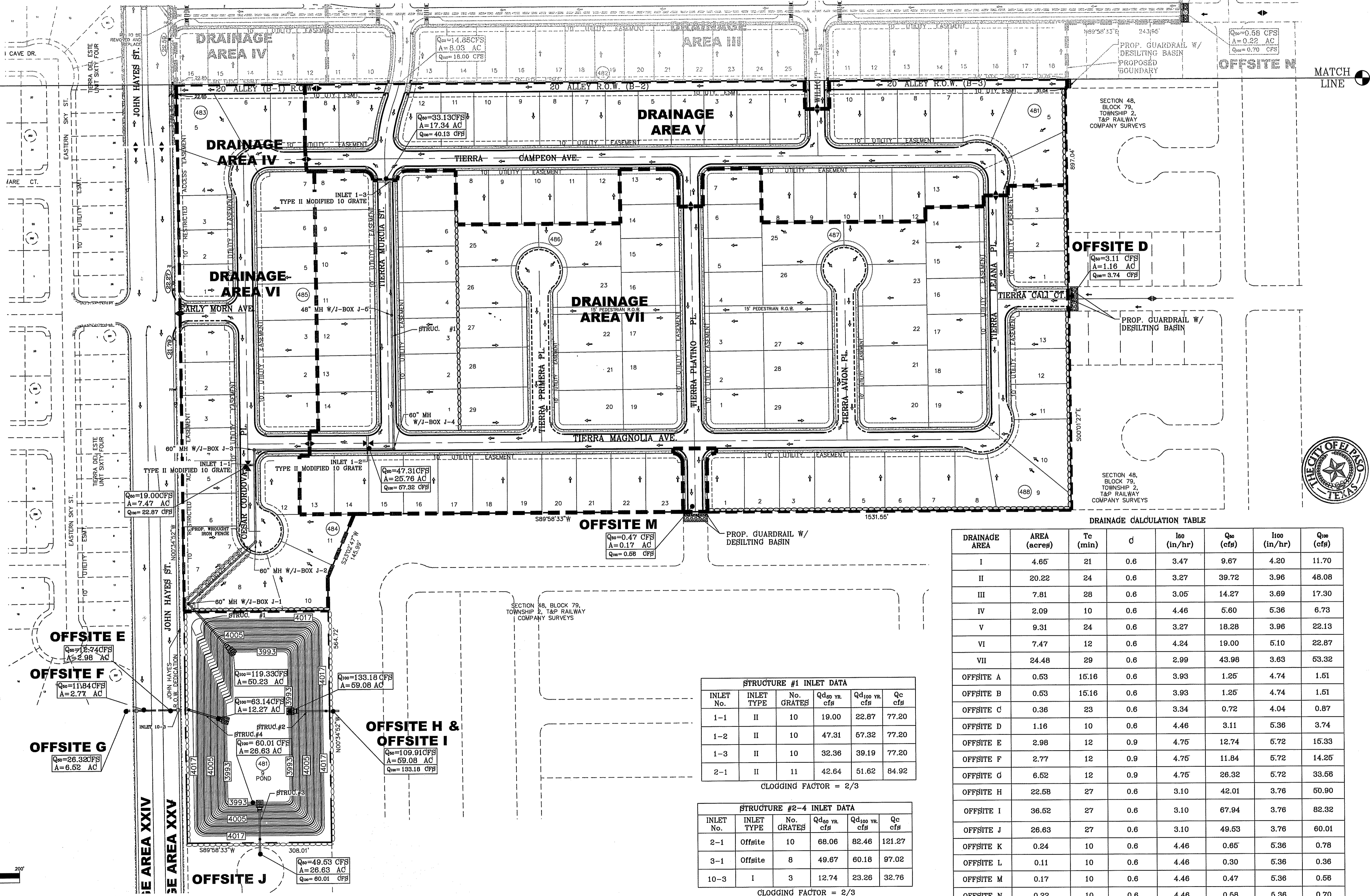
FILE LOCATION S:\Subdivisions\TDE 74\DWG\DDPL PLOTTED ON Thursday, June 08, 2017 2:06:00 PM BY FELIX RODRIGUEZ

STREET CARRYING CAPACITY-FLAT SECTION-50 YR STORM

STREET NAME	STATION	Q ₅₀ CFS	Q ₁₀₀ CFS	Velocity	Depth
CESAR CORDOVA PL.	1+65	19.00	51.20	2.58	0.23
TERRA MAGNOLIA AVE.	43+76	47.31	51.20	3.70	0.40
TERRA MURCIA ST.	13+76	33.13	51.20	3.14	0.33

LEGEND

- Q RUN-OFF QUANTITY (CUBIC FT/Sec)
- d DRAINAGE COEFFICIENT
- I INTENSITY (IN/HR)
- A WATERSHED AREA (ACRES)
- ▲ HIGH POINT
- ▼ LOW POINT
- DRAINAGE FLOW
- - - PROPOSED DRAINAGE AREA



DRAINAGE CALCULATION TABLE

DRAINAGE AREA	AREA (acres)	Tc (min)	d	I ₅₀ (in/hr)	Q ₅₀ (cfs)	I ₁₀₀ (in/hr)	Q ₁₀₀ (cfs)
I	4.65	21	0.6	3.47	9.67	4.20	11.70
II	20.22	24	0.6	3.27	39.72	3.96	48.08
III	7.81	28	0.6	3.05	14.27	3.69	17.30
IV	2.09	10	0.6	4.46	5.60	5.36	6.73
V	9.31	24	0.6	3.27	18.28	3.96	22.13
VI	7.47	12	0.6	4.24	19.00	5.10	22.87
VII	24.48	29	0.6	2.99	43.98	3.63	53.32
OFFSITE A	0.53	15.16	0.6	3.93	1.25	4.74	1.51
OFFSITE B	0.53	15.16	0.6	3.93	1.25	4.74	1.51
OFFSITE C	0.36	23	0.6	3.34	0.72	4.04	0.87
OFFSITE D	1.16	10	0.6	4.46	3.11	5.36	3.74
OFFSITE E	2.98	12	0.9	4.75	12.74	5.72	15.33
OFFSITE F	2.77	12	0.9	4.75	11.84	5.72	14.25
OFFSITE G	6.52	12	0.9	4.75	26.32	5.72	33.56
OFFSITE H	22.58	27	0.6	3.10	42.01	3.76	50.90
OFFSITE I	36.52	27	0.6	3.10	67.94	3.76	82.32
OFFSITE J	26.83	27	0.6	3.10	49.53	3.76	60.01
OFFSITE K	0.24	10	0.6	4.46	0.65	5.36	0.78
OFFSITE L	0.11	10	0.6	4.46	0.30	5.36	0.36
OFFSITE M	0.17	10	0.6	4.46	0.47	5.36	0.56
OFFSITE N	0.22	10	0.6	4.46	0.58	5.36	0.70
POND	3.49						

SEE POND SHEET FOR DETAILS

STRUCTURE #1 INLET DATA

INLET No.	INLET TYPE	No. GRATES	Q _{d50} yr. cfs	Q _{d100} yr. cfs	Qc cfs
1-1	II	10	19.00	22.87	77.20
1-2	II	10	47.31	67.32	77.20
1-3	II	10	32.36	39.19	77.20
2-1	II	11	42.64	51.62	84.92

CLOGGING FACTOR = 2/3

STRUCTURE #2-4 INLET DATA

INLET No.	INLET TYPE	No. GRATES	Q _{d50} yr. cfs	Q _{d100} yr. cfs	Qc cfs
2-1	Offsite	10	68.06	82.46	121.27
3-1	Offsite	8	49.67	60.18	97.02
10-3	I	3	12.74	23.26	32.76

CLOGGING FACTOR = 2/3

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.28 NAVD83 DATUM

PROJECT NAME
TERRA DEL ESTE UNIT SEVENTY FOUR

BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS. CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

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

ENGINEER'S SEAL
STATE OF TEXAS
WYOMING COUNTY
64648
FELIX RODRIGUEZ
REGISTERED PROFESSIONAL ENGINEER

CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6030 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0263
FAX: (915) 692-0266

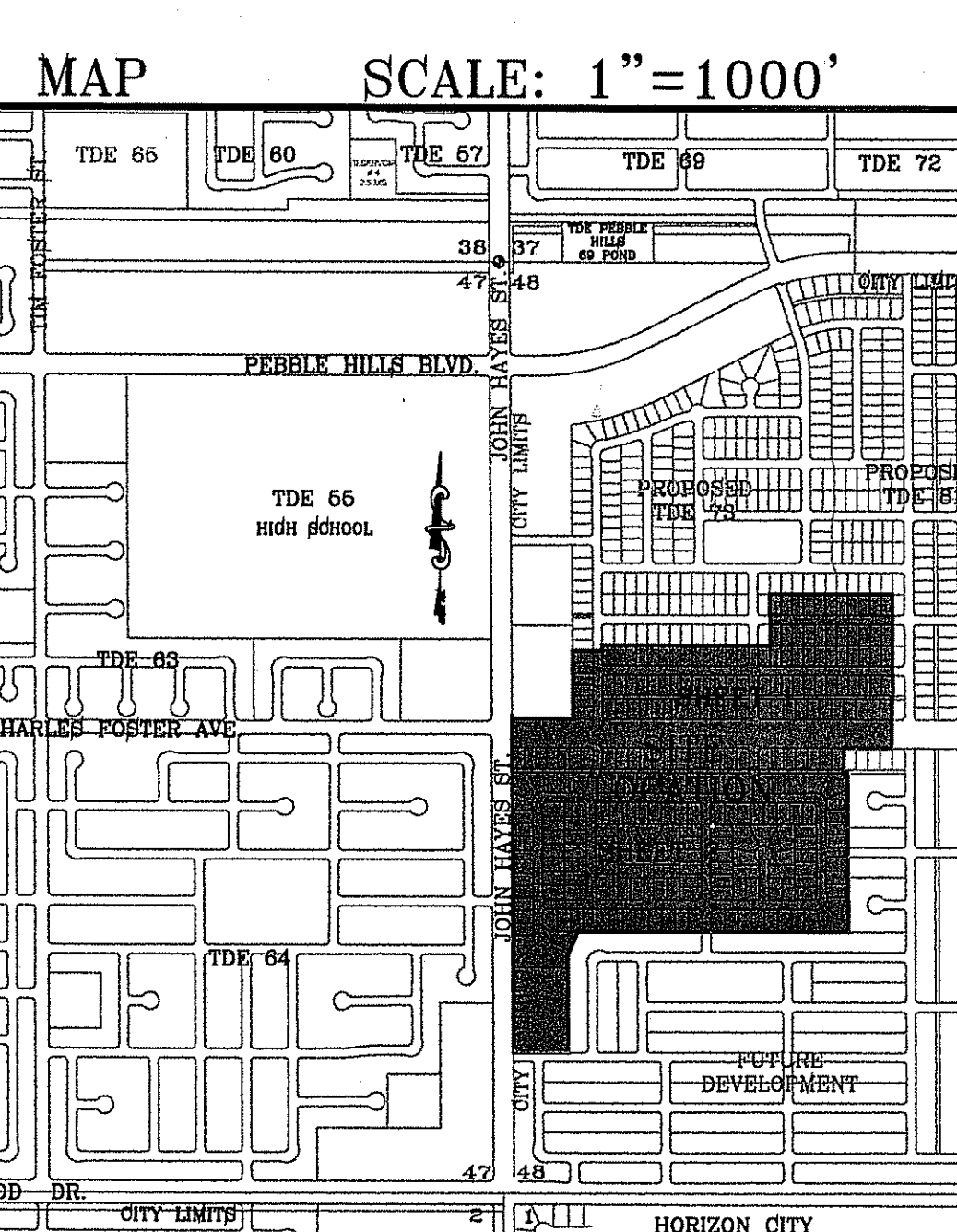
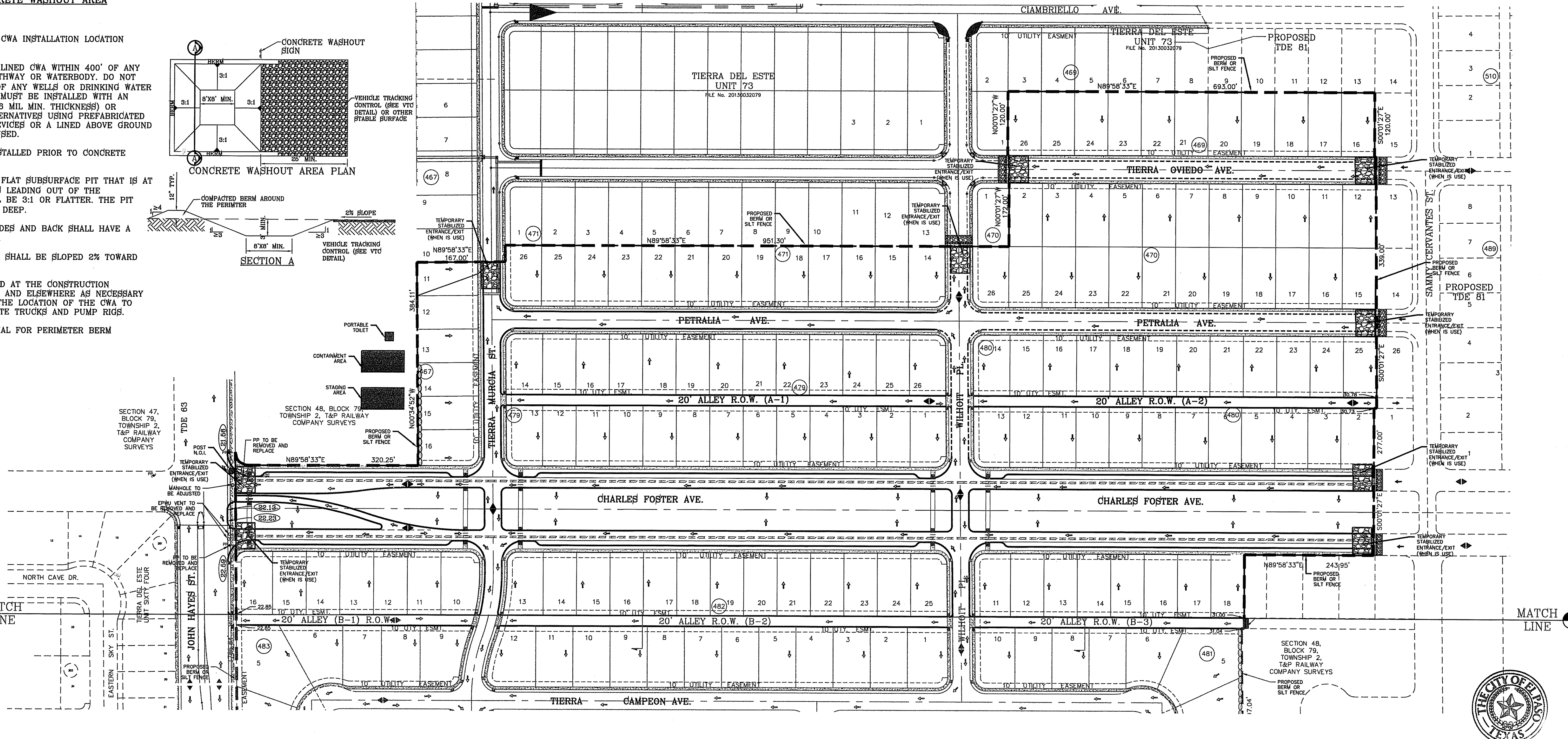
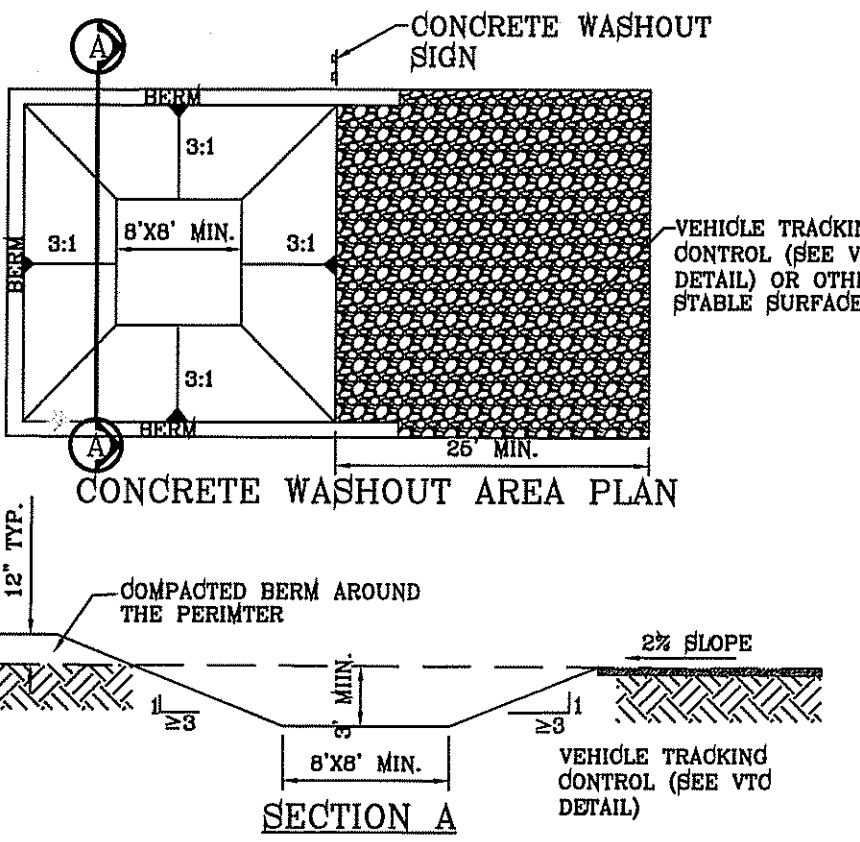
SHEET TITLE
DRAINAGE PLAN

SHT 7 OF 53

CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

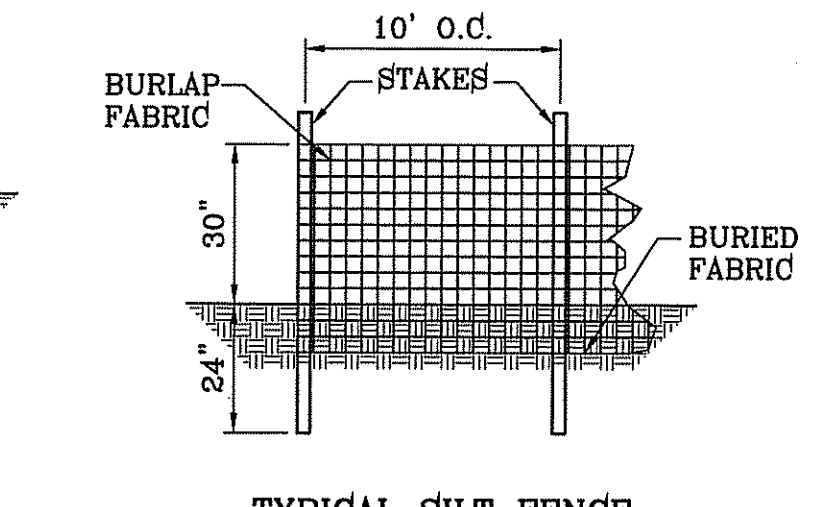
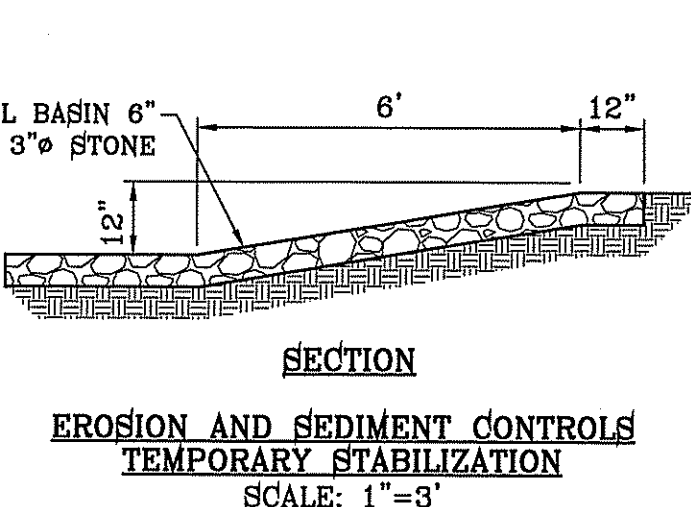
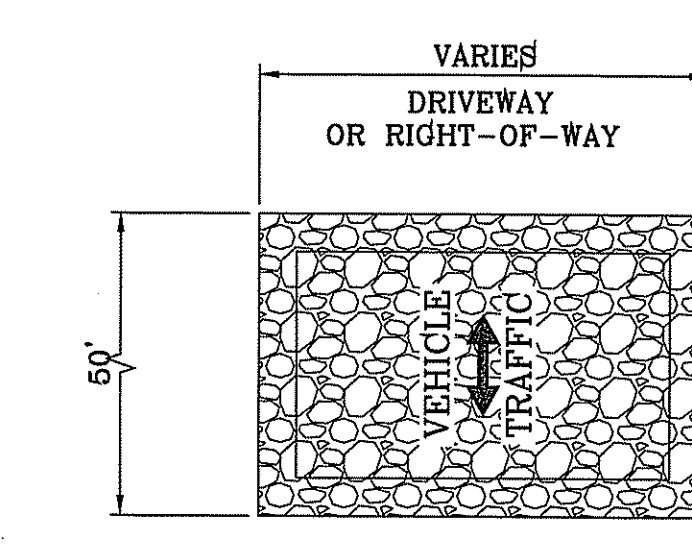
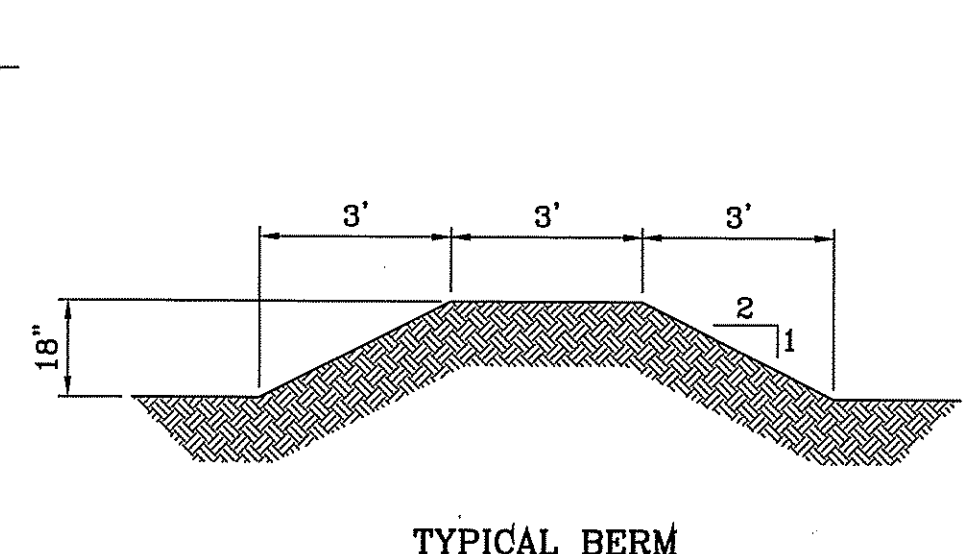
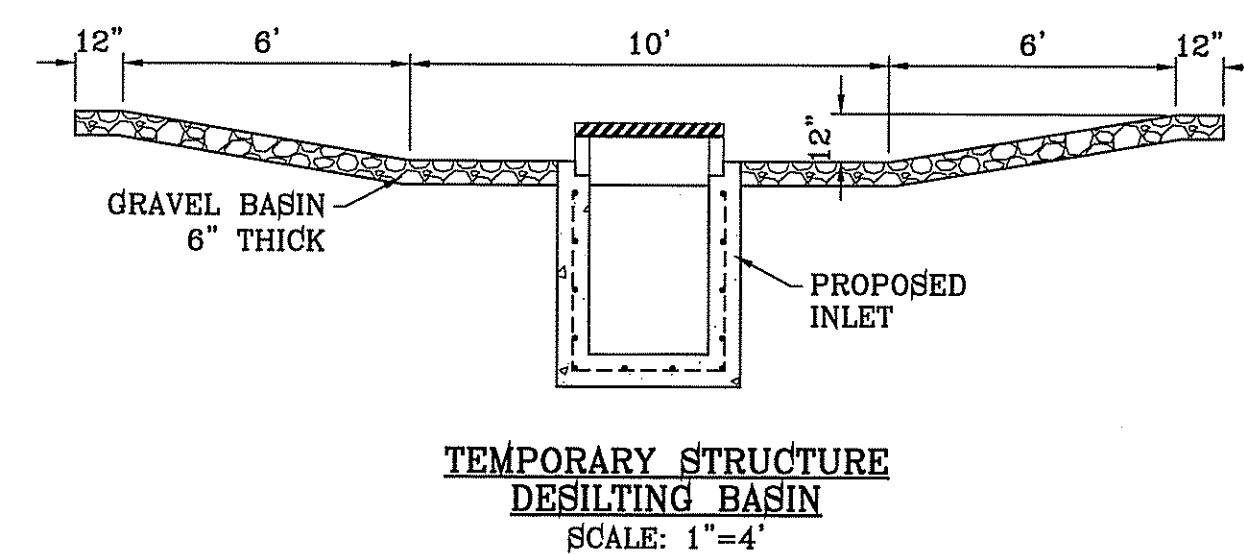
- SEE PLAN VIEW FOR: -CWA INSTALLATION LOCATION
- DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1000' OF ANY WELLS OR DRINKING WATER SOURCES. IF THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE SHOULD BE USED.
- THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
- CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
- BERM SURROUNDING SIDES AND BACK SHALL HAVE A MINIMUM HEIGHT OF 1'.
- VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARD THE CWA.
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE AT THE CWA AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.



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

LEGEND

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



- STABILIZED ENTRANCE EROSION CONTROL NOTES**
- SILT FENCING OR TEMPORARY BERMS SHALL BE INSTALLED AT TIME OF CONSTRUCTION.
 - TEMPORARY SWALES AND DESILTING BASINS WILL BE PLACED WHERE NECESSARY IN ORDER TO CONVEY STORM WATER RUN-OFF.
 - 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.
 - 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.
 - A TEMPORARY BERM SHALL BE PROVIDED AT THE TOE OF SLOPE AND LOT LINE AT TIME OF GRADING PRIOR TO ROCKWALL CONSTRUCTION.
 - SILT FENCE TO BE INSTALLED AND MAINTAINED ALONG THE PERIMETER OF THE PARK SITE UNTIL ALL ADJUTING RESIDENCES ARE DEVELOPED.

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

GRADING STABILIZATION AND STORMWATER POLLUTION PREVENTION PLAN

SHT 8 OF 53

TIERRA DEL ESTE UNIT SEVENTY FOUR

PROJECT NAME: TIERRA DEL ESTE UNIT SEVENTY FOUR
BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.26 NAVD83 DATUM

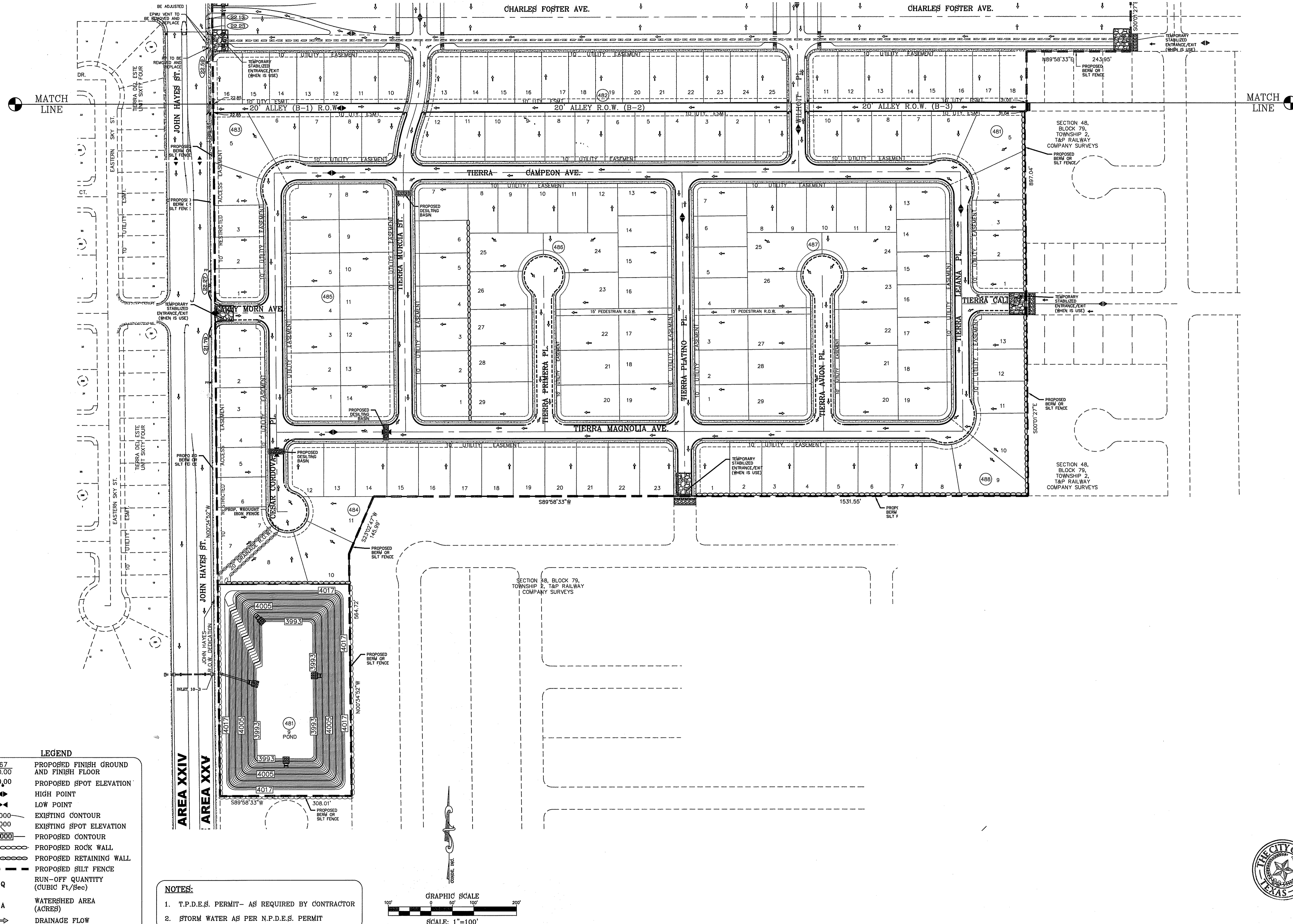
DATE: _____
REVISIONS: _____

DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

SCALES:
HORIZ: #####
VERT: ---

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

CONDE INC. REGISTRATION No. F-231
SHEET TITLE

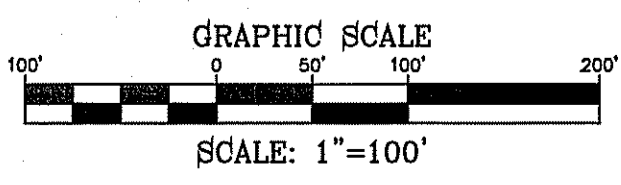


LEGEND

- FF=0.67 PROPOSED FINISH GROUND AND FINISH FLOOR
- FG=00.00 PROPOSED FINISH GROUND AND FINISH FLOOR
- 00,00 PROPOSED SPOT ELEVATION
- ▲ HIGH POINT
- ▼ LOW POINT
- 4000 EXISTING CONTOUR
- 4000 EXISTING SPOT ELEVATION
- 4000 PROPOSED CONTOUR
- PROPOSED ROCK WALL
- PROPOSED RETAINING WALL
- PROPOSED SILT FENCE
- Q RUN-OFF QUANTITY (CUBIC FT/Sec)
- A WATERSHED AREA (ACRES)
- DRAINAGE FLOW

NOTES:

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



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.28 NAVD83 DATUM

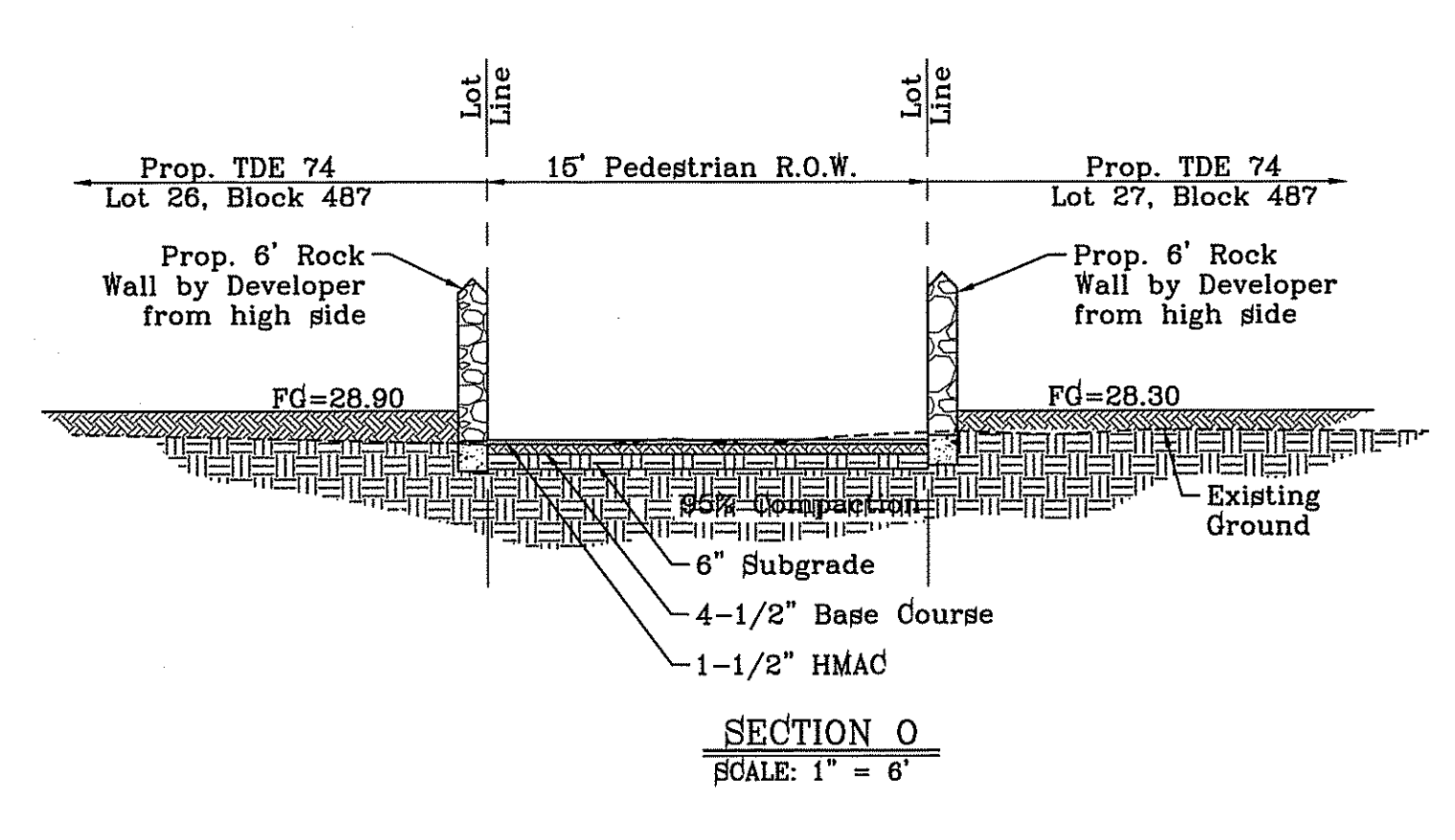
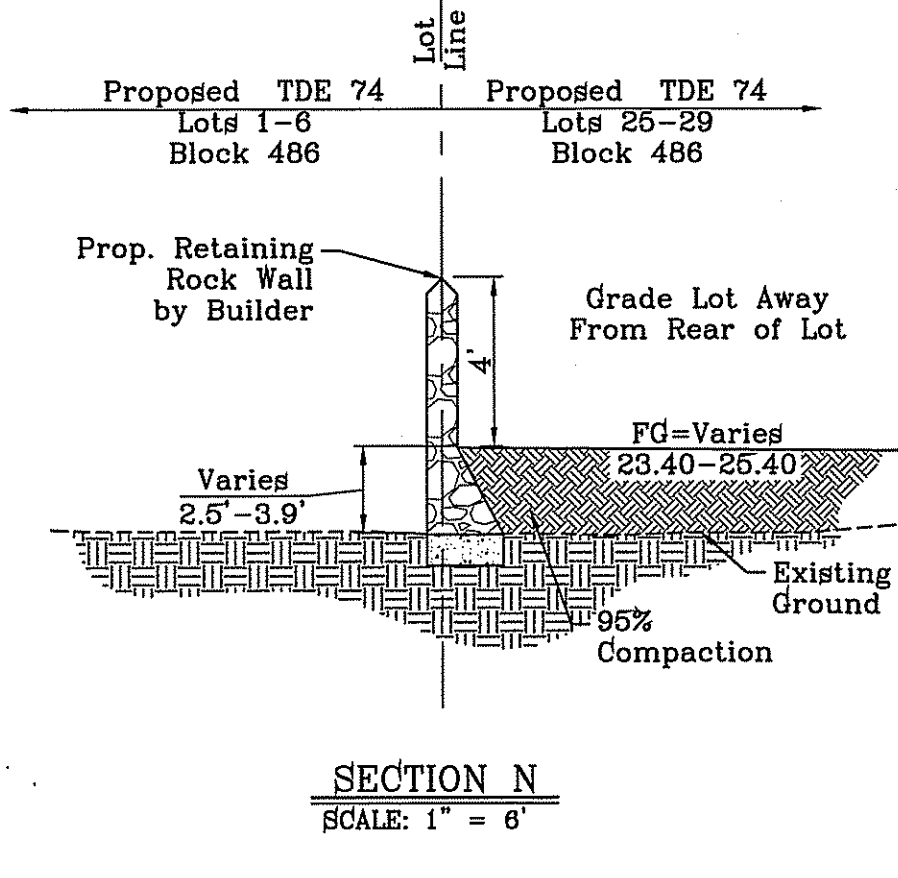
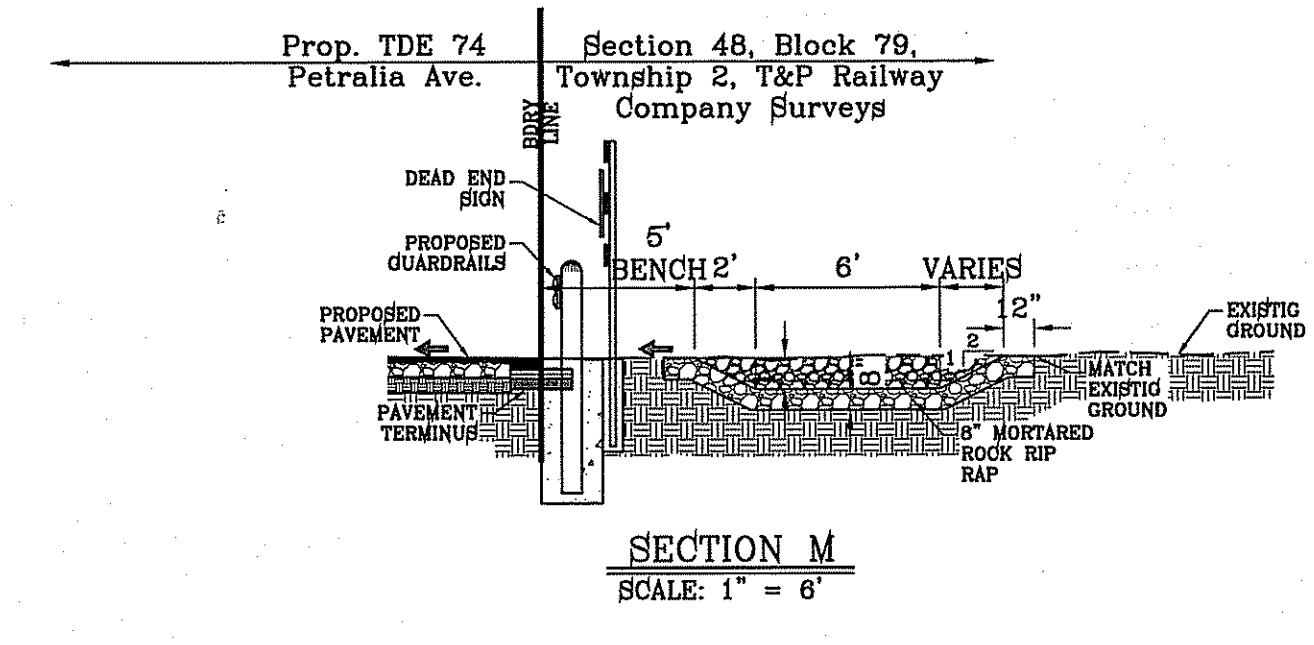
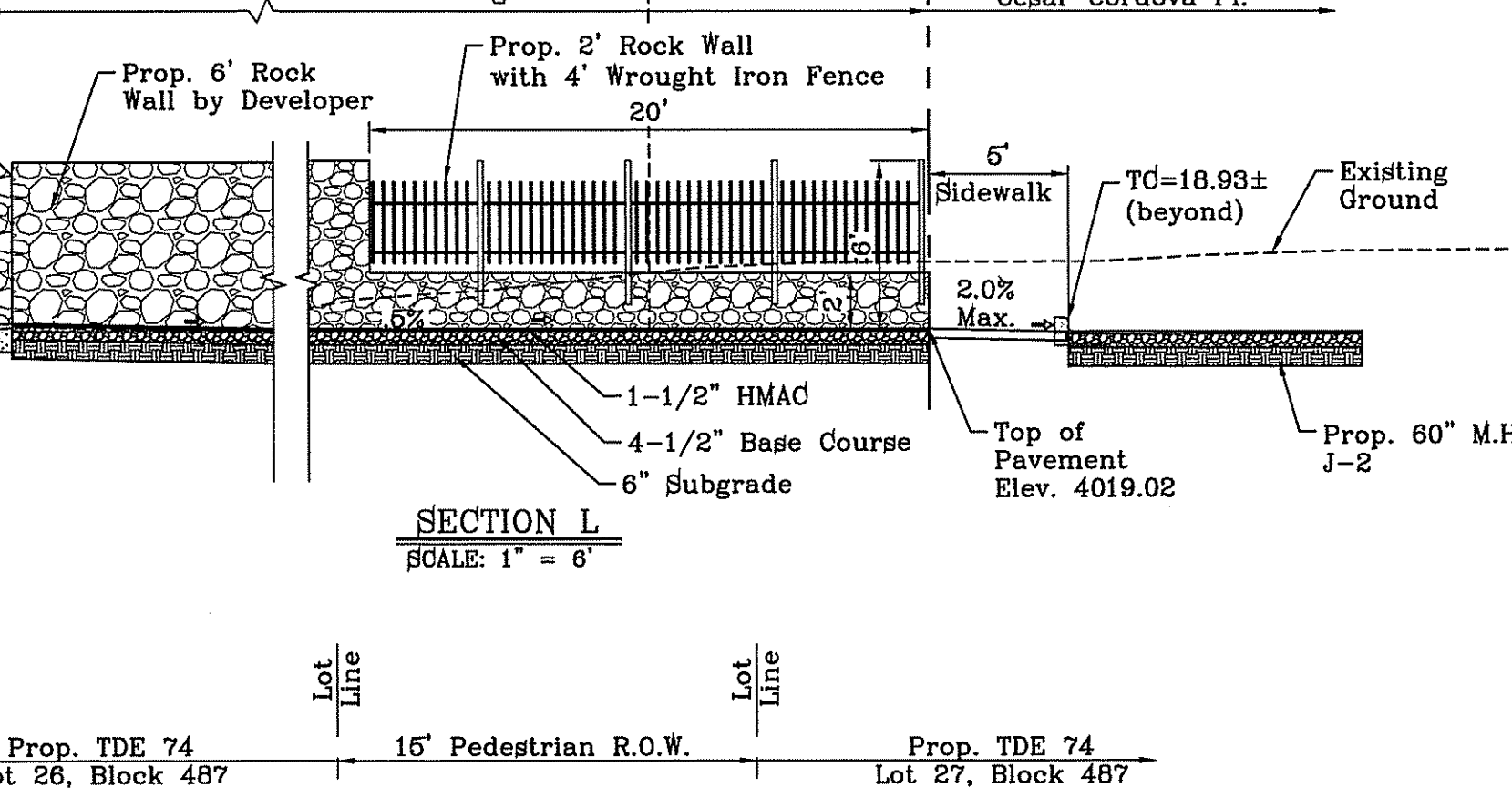
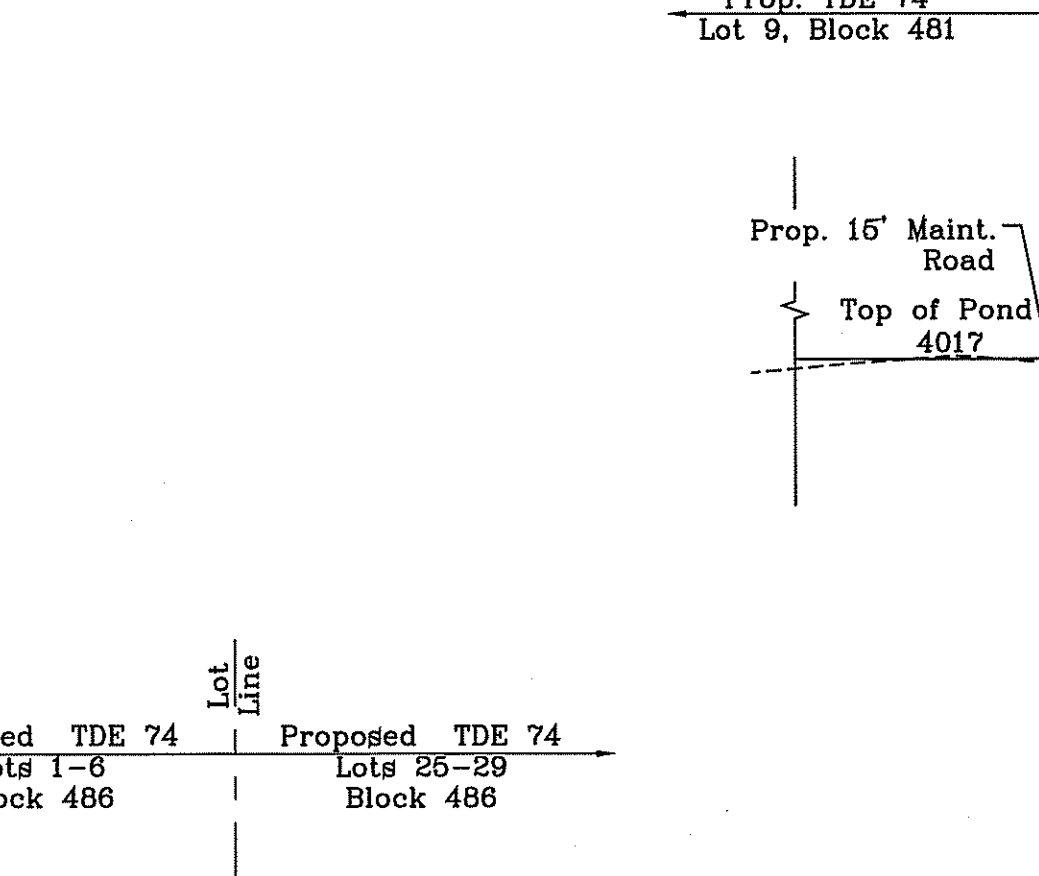
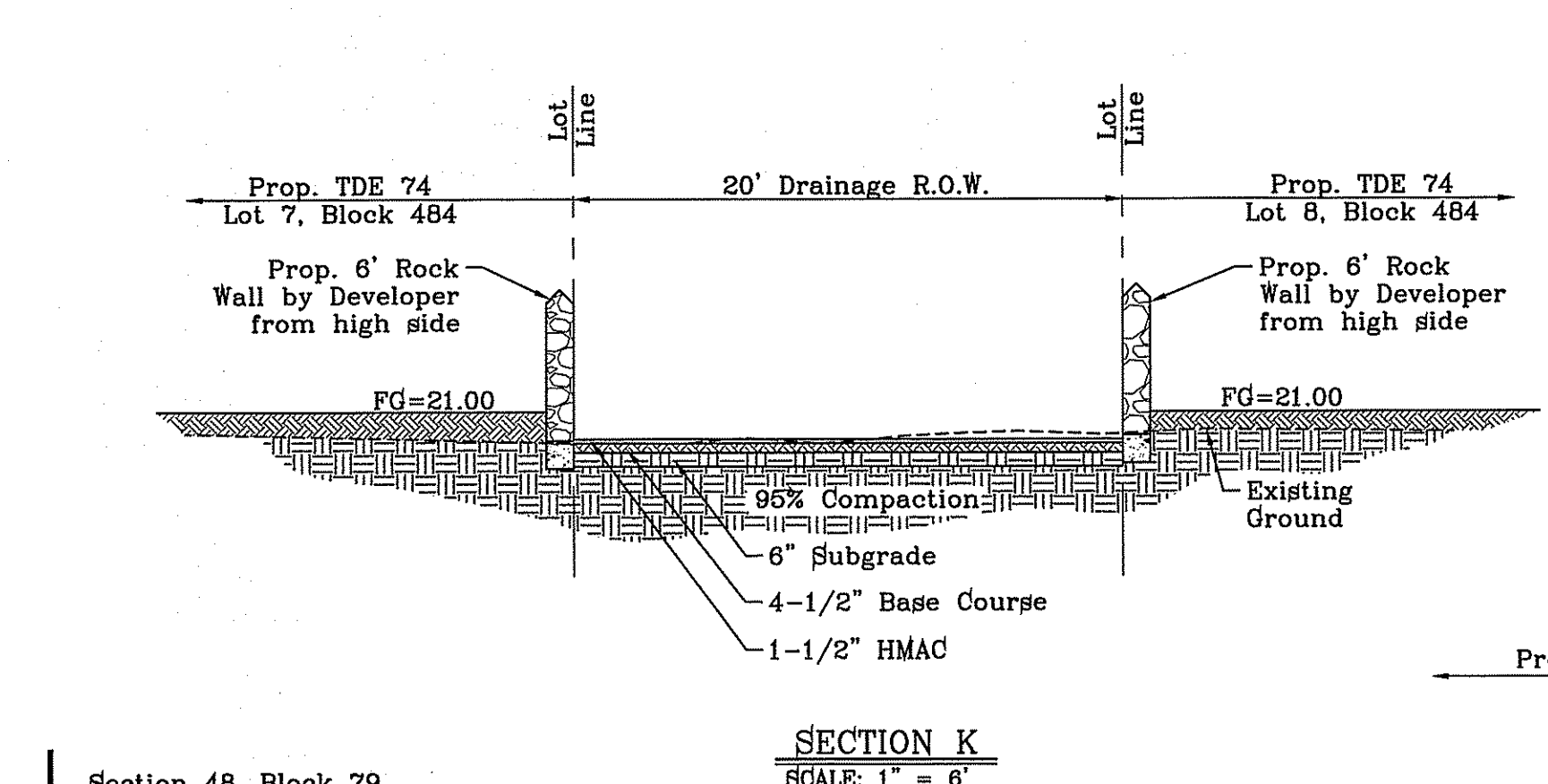
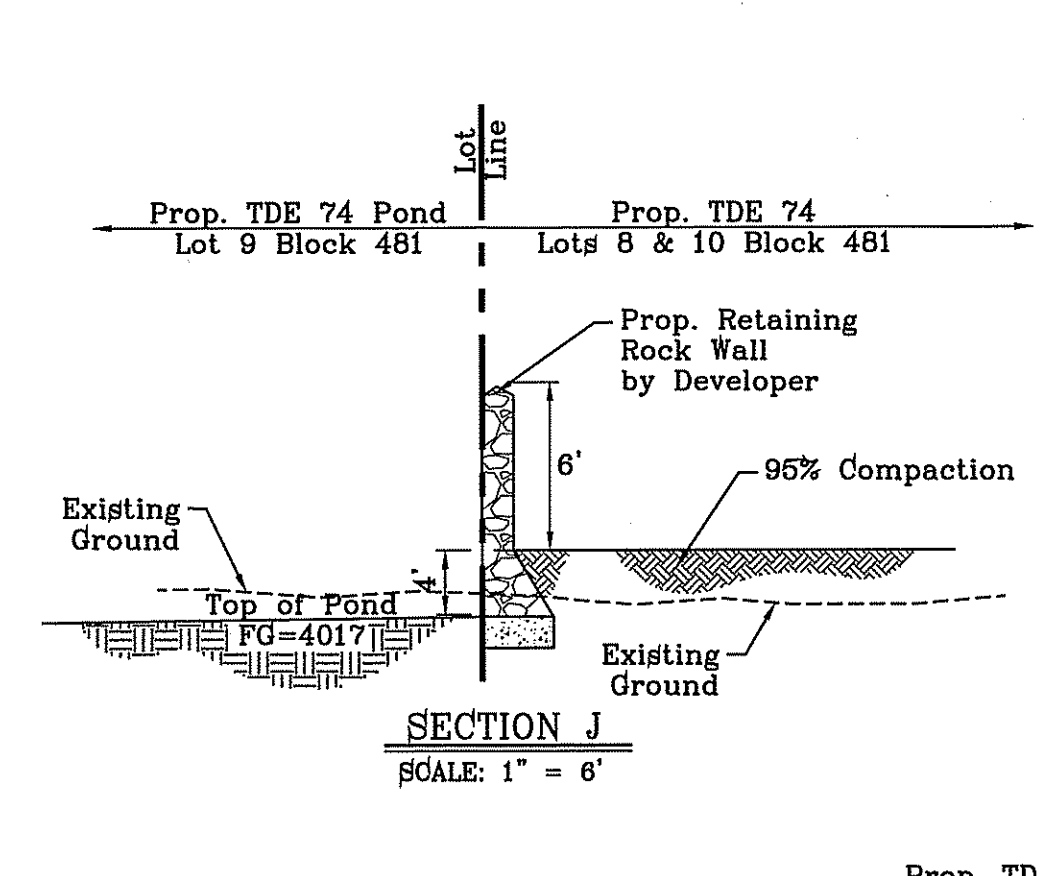
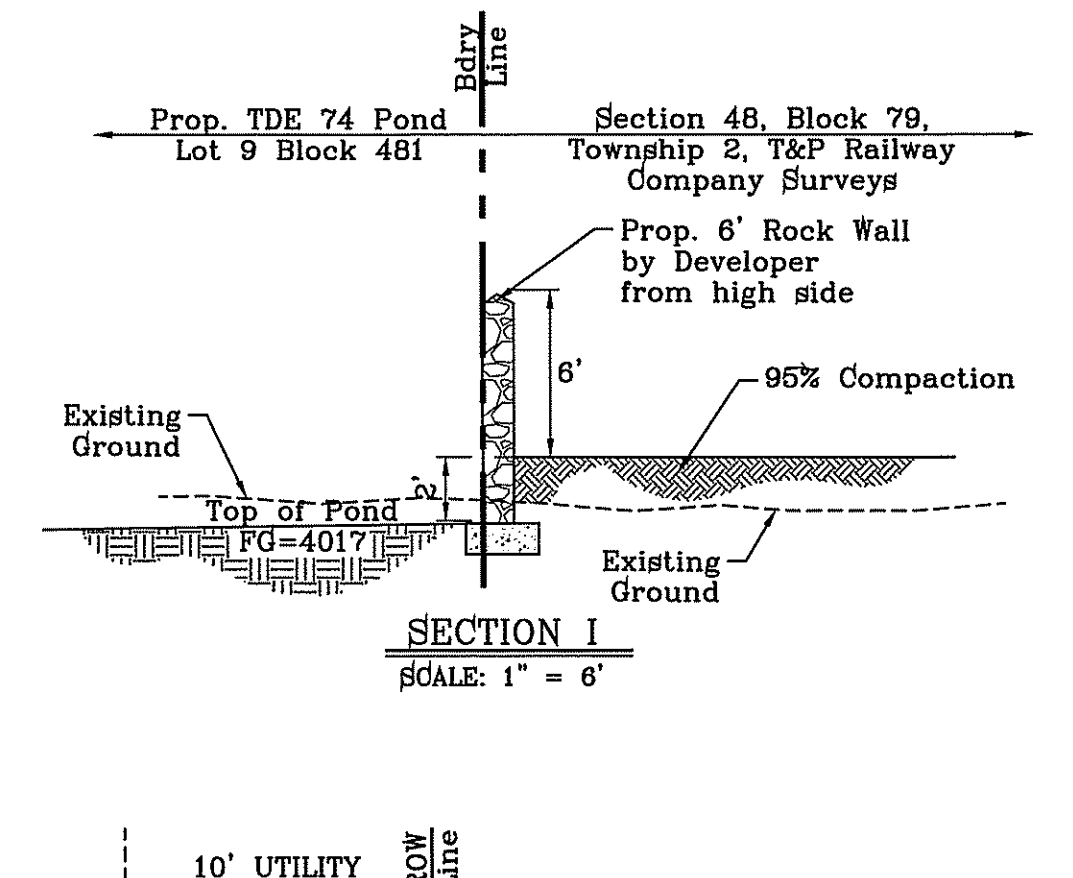
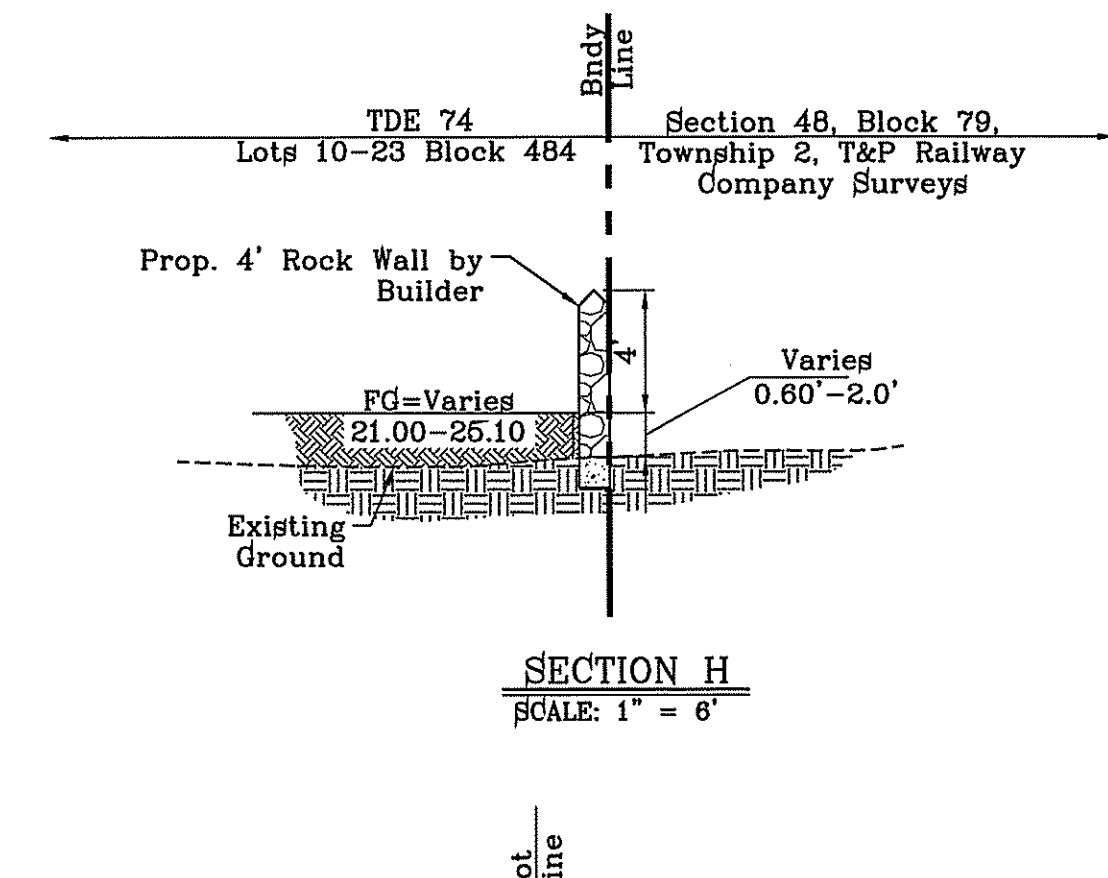
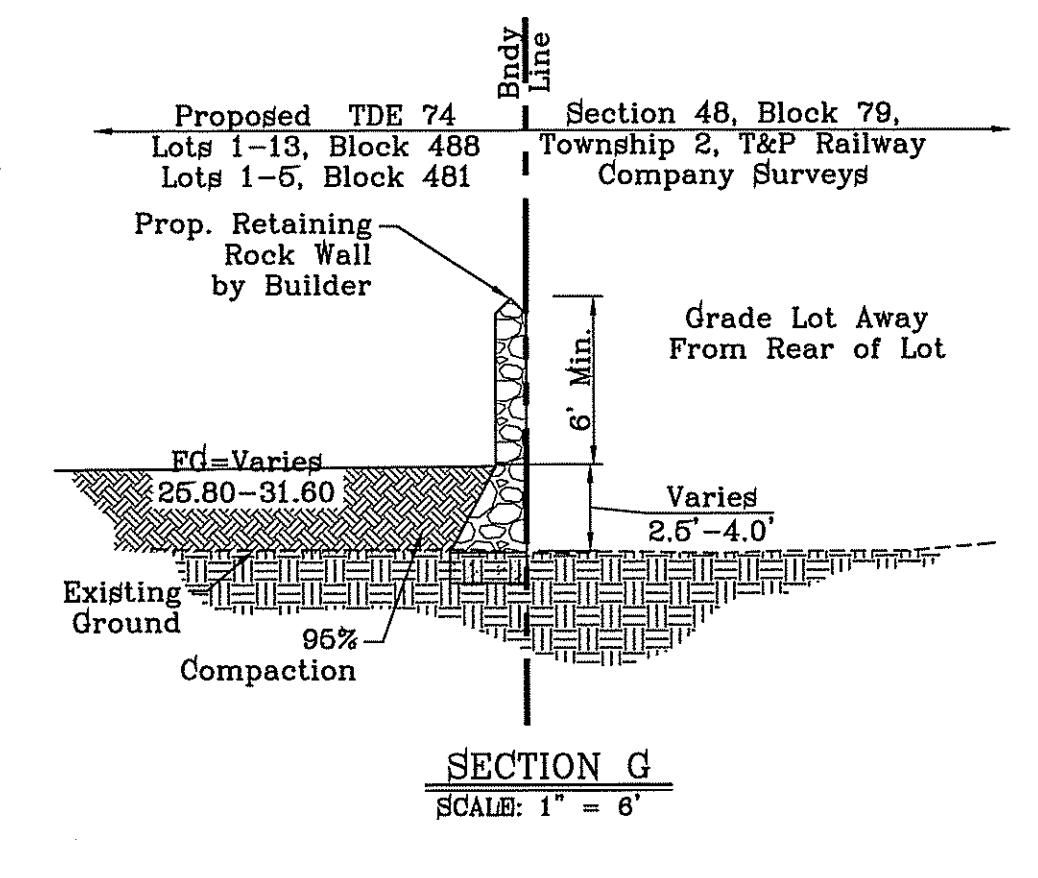
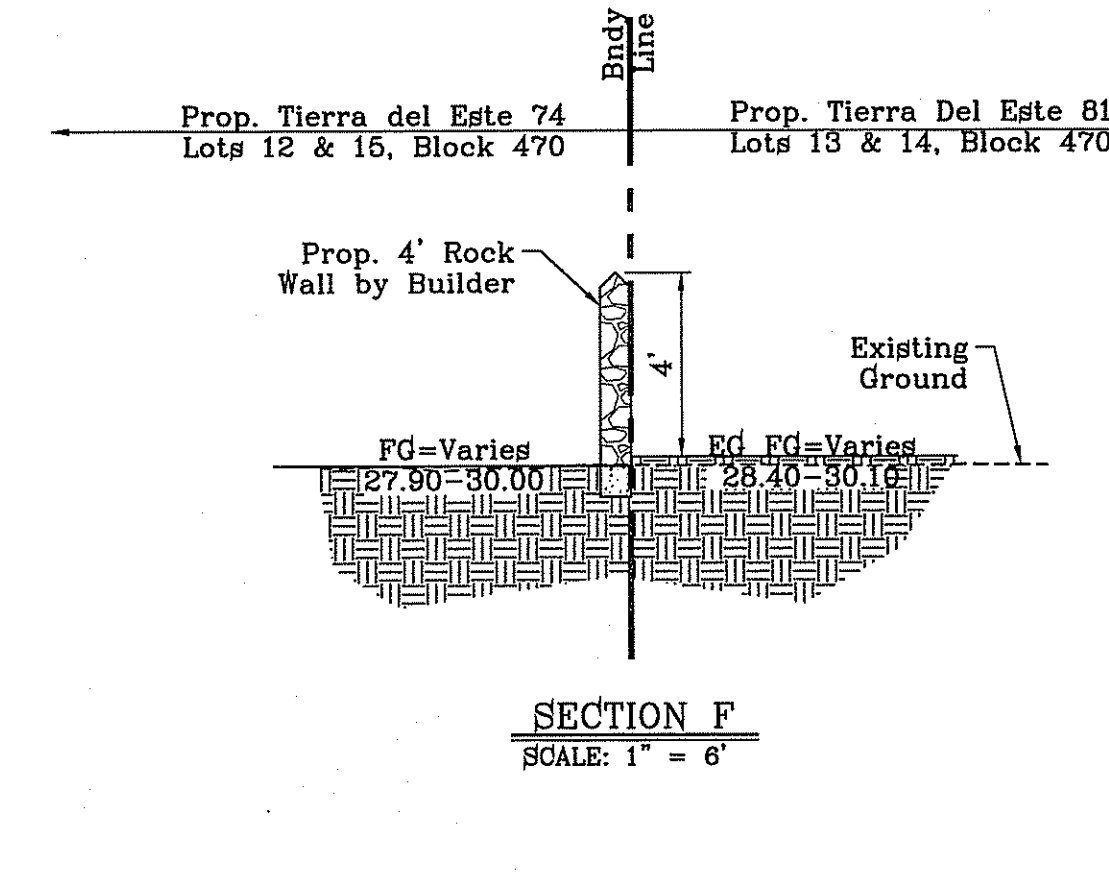
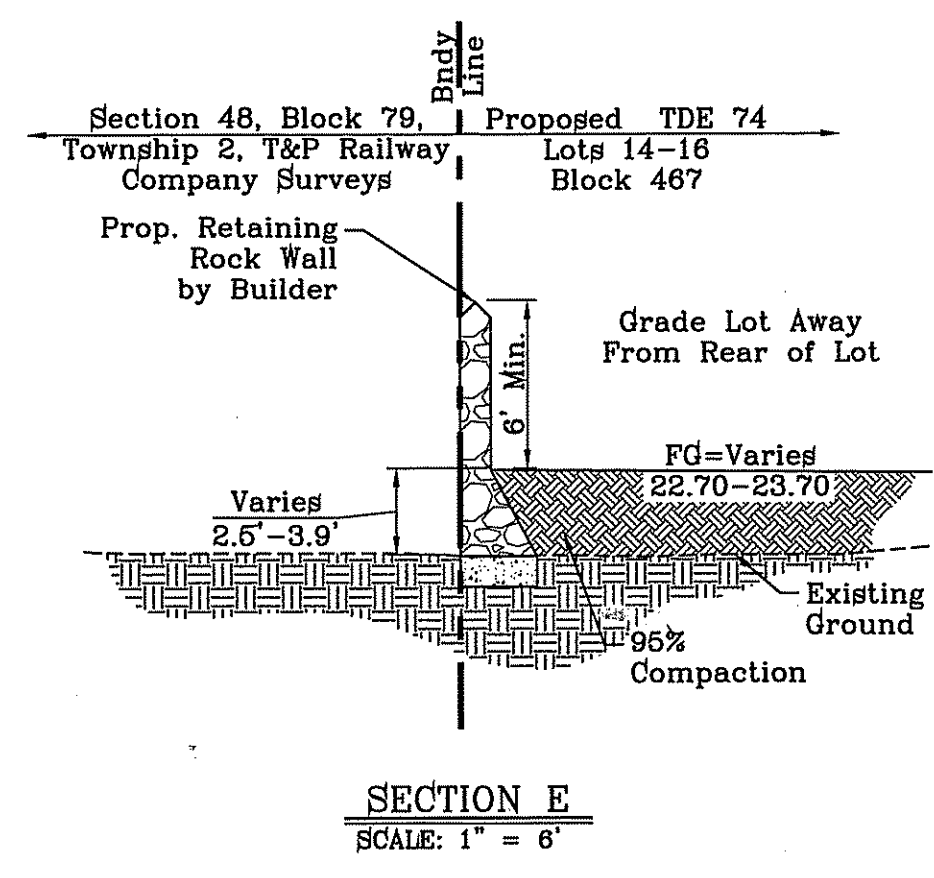
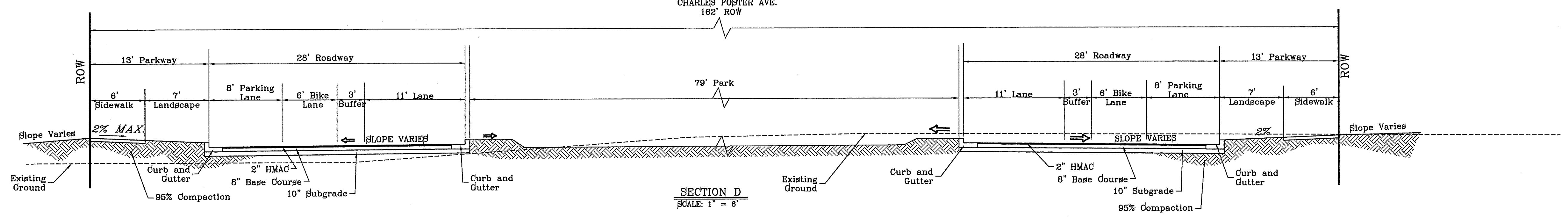
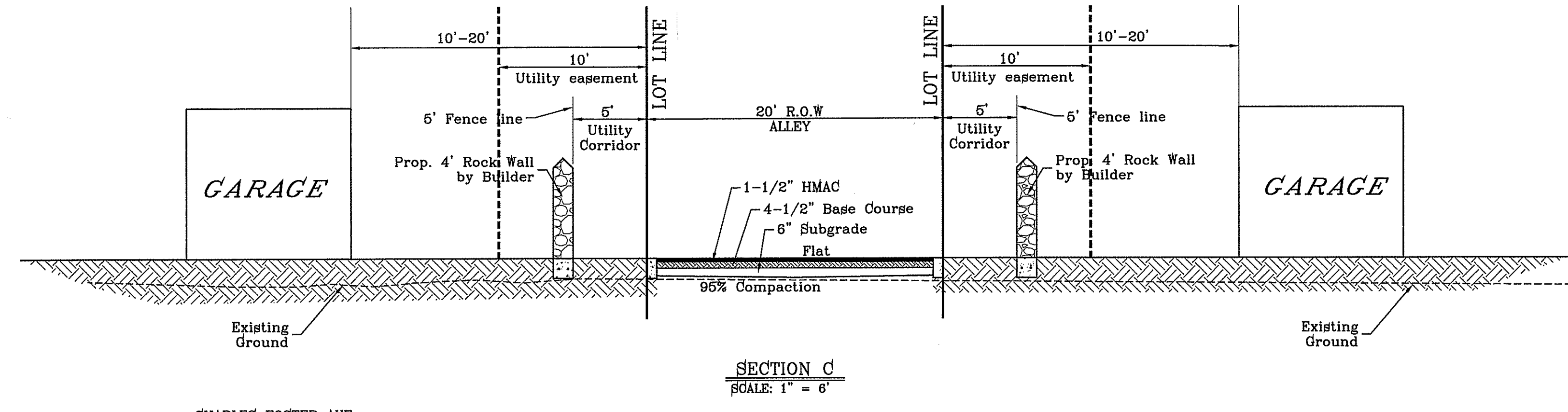
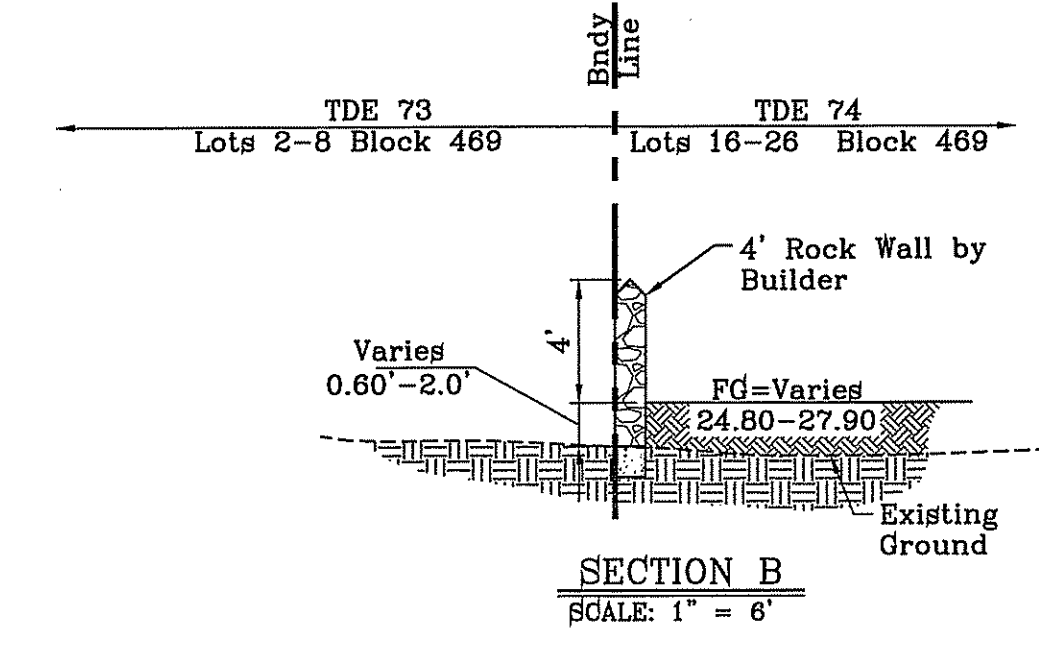
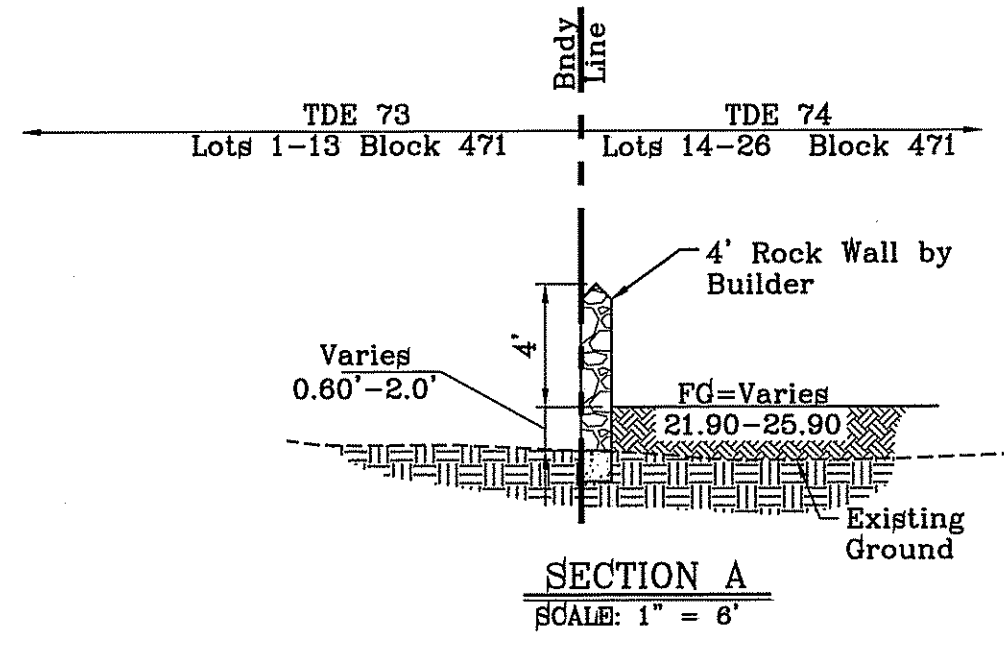
PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, T&P RAILWAY COMPANY SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

SCALE
HORIZ:#####
VERT:#####
DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

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

SHEET TITLE
GRADING STABILIZATION AND STORMWATER POLLUTION PREVENTION PLAN

FILE LOCATION: \\Subdivisions\TDE 74\DWG\GRA SECTIONS PLOTTED ON Thursday, October 12, 2017 7:51:10 AM BY FELIX RODRIGUEZ



BENCHMARK	
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF	
COLUMBIA POSTER PL. AND JOHN HAYES ST.	
ELEVATION = 4021.28 NAD83 DATUM	
DATE	REVISIONS

PROJECT NAME
**Tierra del Este Unit
SEVENTY FOUR**

BEING PORTION OF SECTION 48, BLOCK 79,
TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: .80,037± ACRES

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

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

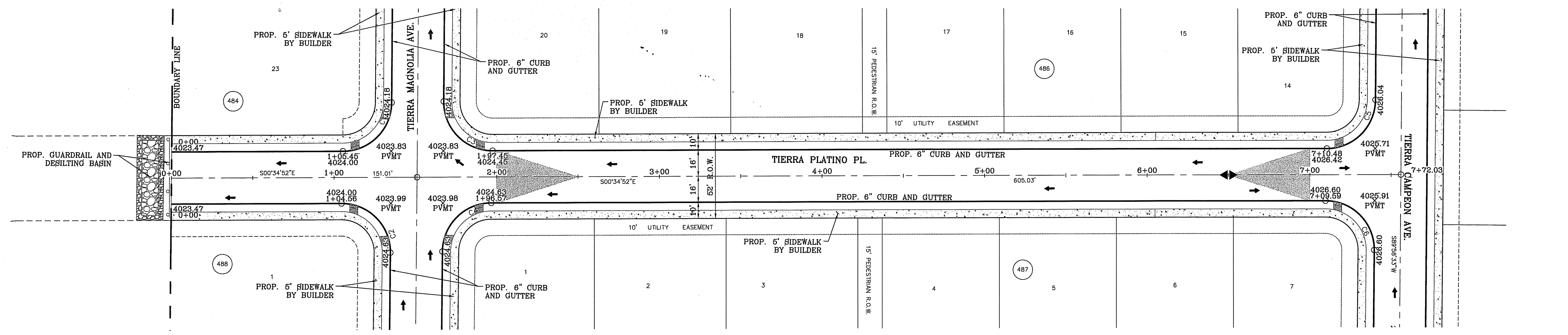
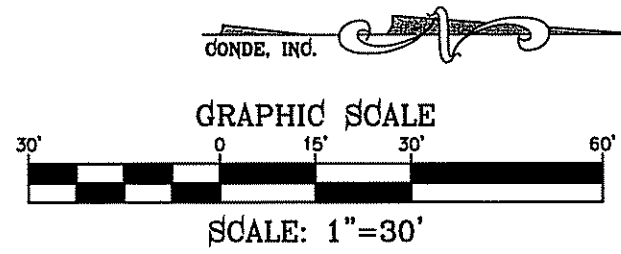
ENGINEER'S SEAL
STATE OF TEXAS
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6060 SURETY DR. STE 100
EL PASO, TEXAS 79906
PHONE: (915) 592-0283
FAX: (915) 592-0286

SHEET TITLE
GRADING SECTIONS

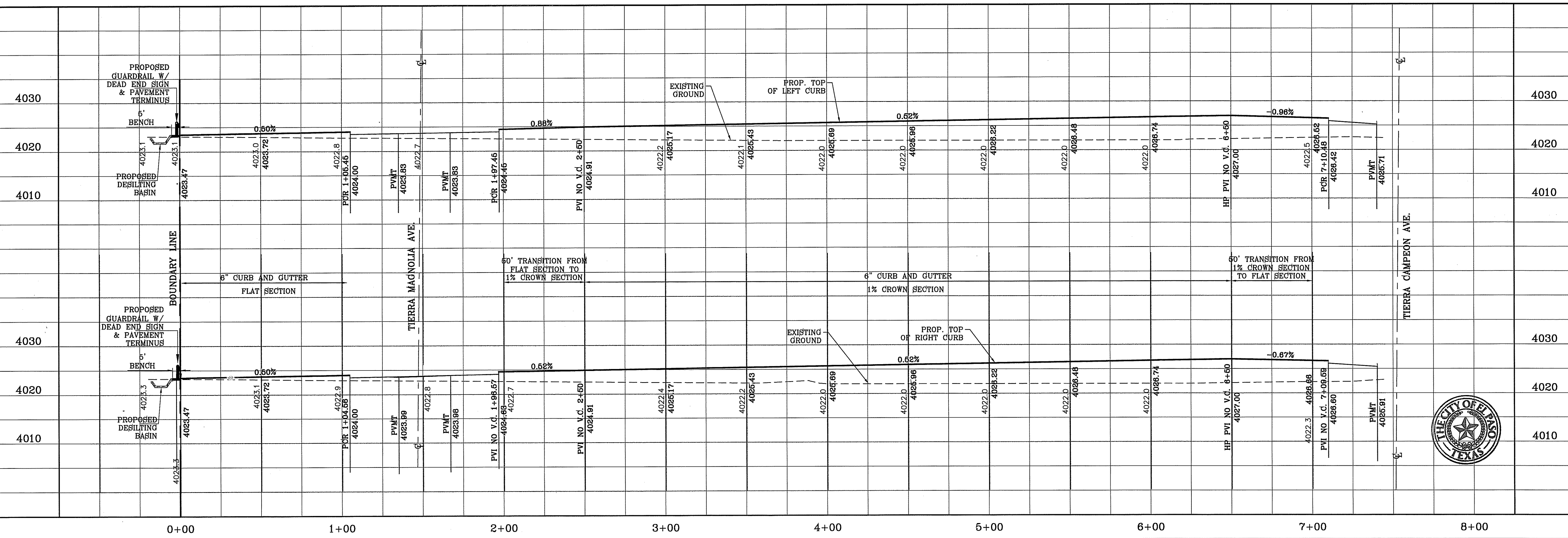
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C1	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"
C2	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C3	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C4	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C5	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"
C6	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"

LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION



FILE LOCATION: S:\Subdivisions\74\DWG\PP TIERRA PLATINO PLOTTED ON Thursday, June 08, 2017 2:23:33 PM BY FELIX RODRIGUEZ



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

TIERRA DEL ESTE UNIT SEVENTY FOUR
SEVENTH SECTION 48, BLOCK 79,
TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 60.087± ACRES

ENGINEER'S SEAL

CITY OF EL PASO, TEXAS

SCALES
HORIZ: 1" = 30'
VERT: 1" = 10'

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.28 NAVD83 DATUM

REVISIONS

DATE	BY

SHEET TITLE
STREET PLAN-PROFILE

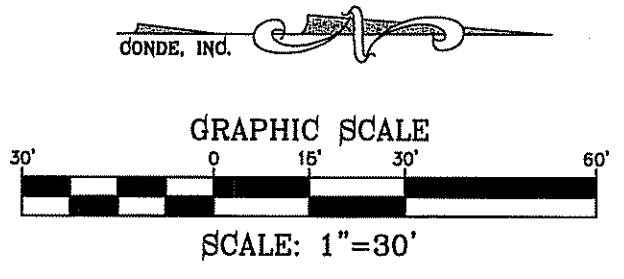
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STA: 0+00 TO STA: 8+00

SHT 12 OF 53

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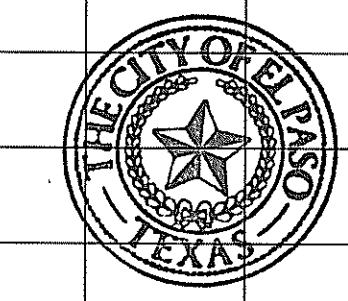
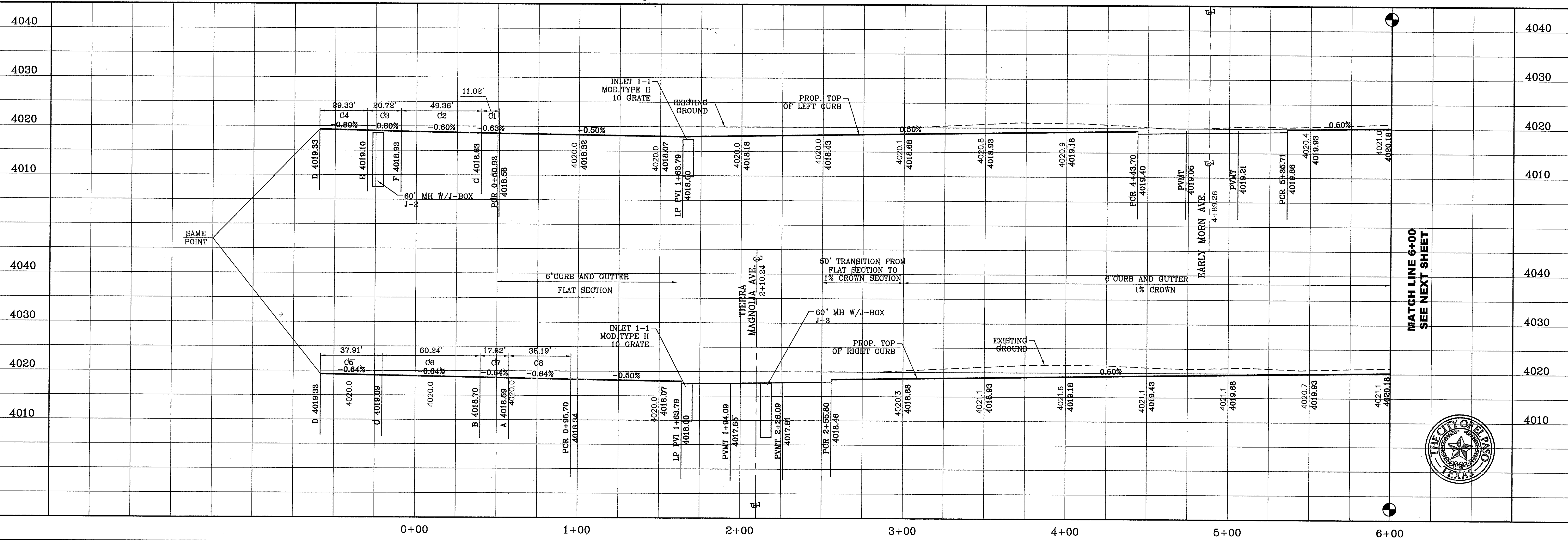
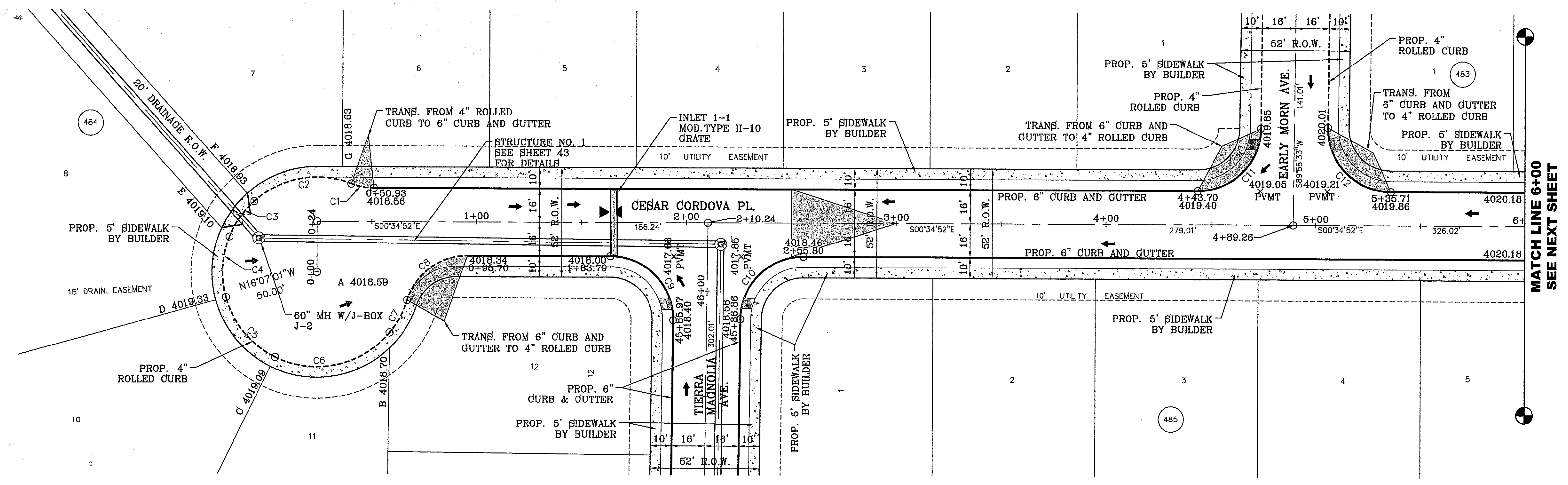
LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION



CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	11.02'	5.57'	10.95'	N9°56'19"E	21°02'22"
C2	45.00'	49.36'	27.49'	46.92'	S10°57'50"E	62°50'40"
C3	45.00'	20.72'	10.55'	20.54'	S55°34'48"E	26°23'16"
C4	45.00'	29.33'	15.21'	28.81'	S87°26'43"E	37°20'35"
C5	45.00'	37.91'	20.16'	36.80'	N49°45'03"E	48°15'53"
C6	45.00'	60.24'	35.60'	55.84'	N12°43'59"W	76°42'10"

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C7	45.00'	17.62'	8.93'	17.51'	N62°18'14"W	22°26'21"
C8	30.00'	38.19'	22.18'	35.67'	S37°03'08"E	72°56'33"
C9	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C10	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C11	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"
C12	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
CHARLES FOSTER PL. AND JOHN HAYES ST.
ELEVATION = 4021.26NAVD83 DATUM

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR
BEING PORTION OF SECTION 48, BLOCK 79
TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 80.037± ACRES

SCALE
HORIZ. 1" = 30'
VERT. 1" = 10'

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

ENGINEER'S SEAL

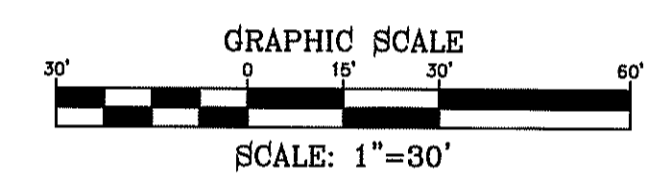
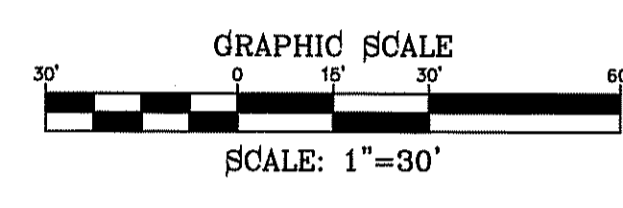
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 692-0283
FAX: (915) 692-0286

SHEET TITLE
STREET
PLAN-PROFILE
CESAR CORDOVA PL
STA: 0+00 TO
STA: 6+00

FILE LOCATION S:\Subdivisions\74\DWG\PP-4_STREET5 PLOTTED ON Thursday, June 08, 2017 2:31:27 PM BY FELIX RODRIGUEZ

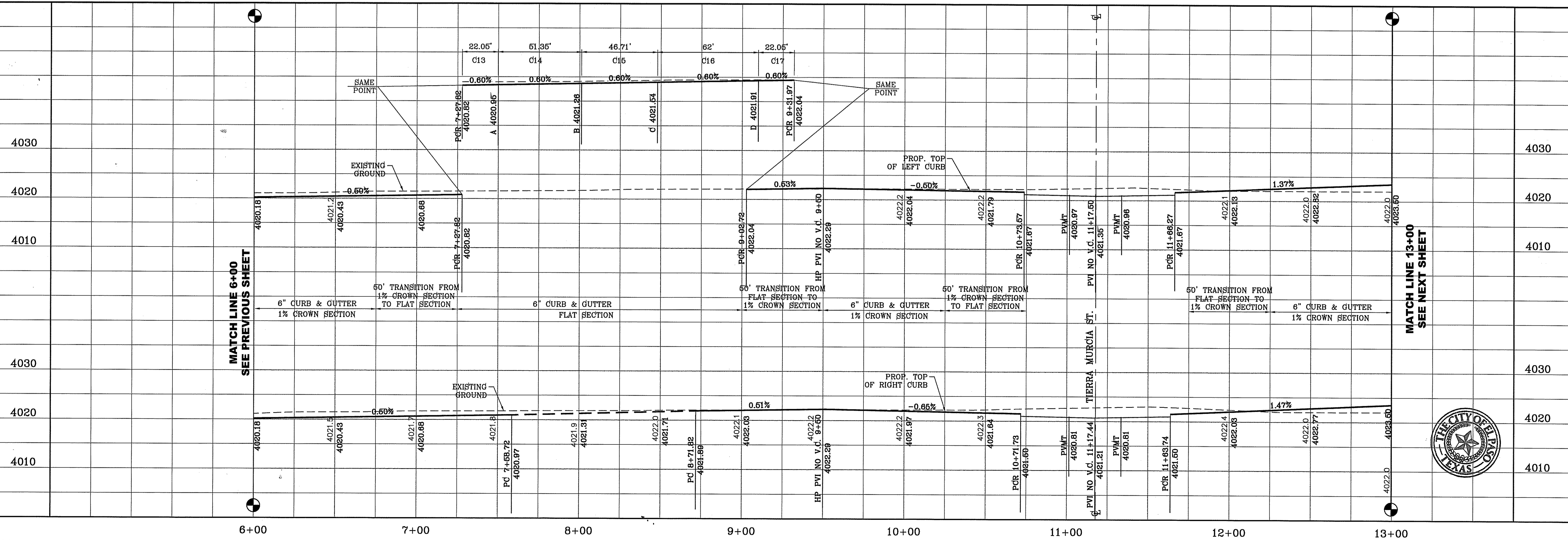
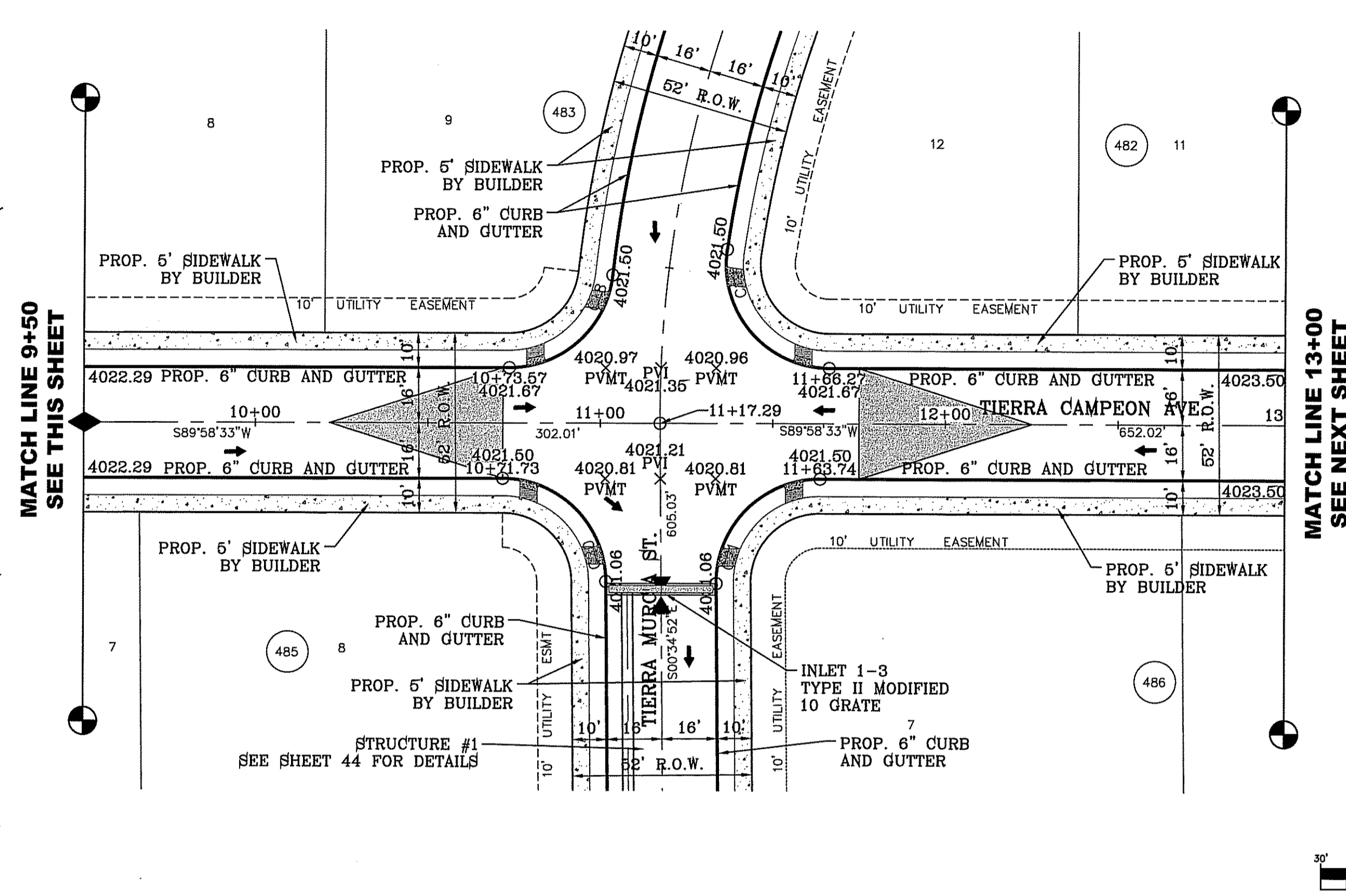
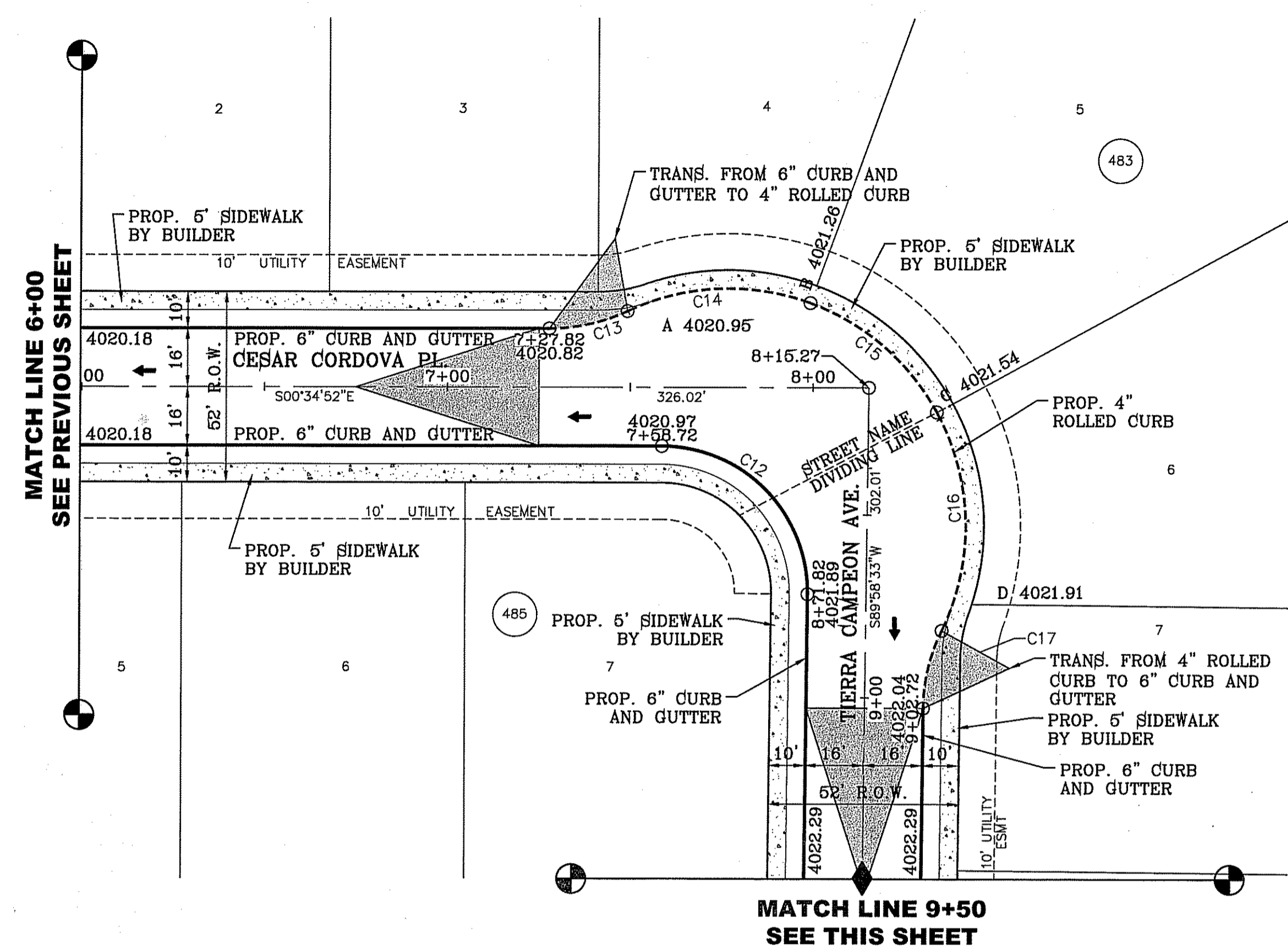
LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C12	40.00'	63.22'	40.39'	56.84'	S44°41'50"W	90°33'25"
C13	50.00'	22.05'	11.21'	21.87'	N13°12'48"W	25°15'52"
C14	65.00'	51.35'	27.10'	50.03'	S3°12'42"E	45°16'04"
C15	65.00'	46.71'	24.41'	45.71'	S40°00'26"W	41°10'12"
C16	65.00'	62.00'	33.58'	59.67'	S87°54'58"W	54°38'53"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C17	50.00'	22.05'	11.21'	21.87'	S77°23'31"E	25°15'52"
C18	30.00'	43.89'	26.93'	40.08'	N48°03'48"E	83°49'29"
C19	30.00'	51.34'	34.54'	45.30'	S40°59'48"E	98°03'18"
C20	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"
C21	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST.
ELEVATION = 4021.26 NAVD83 DATUM

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 719-41

CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 692-0253
FAX: (915) 692-0286

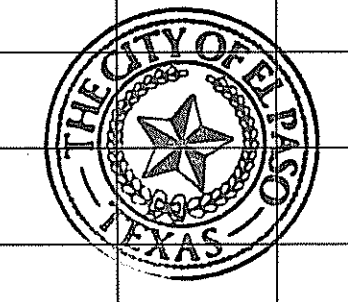
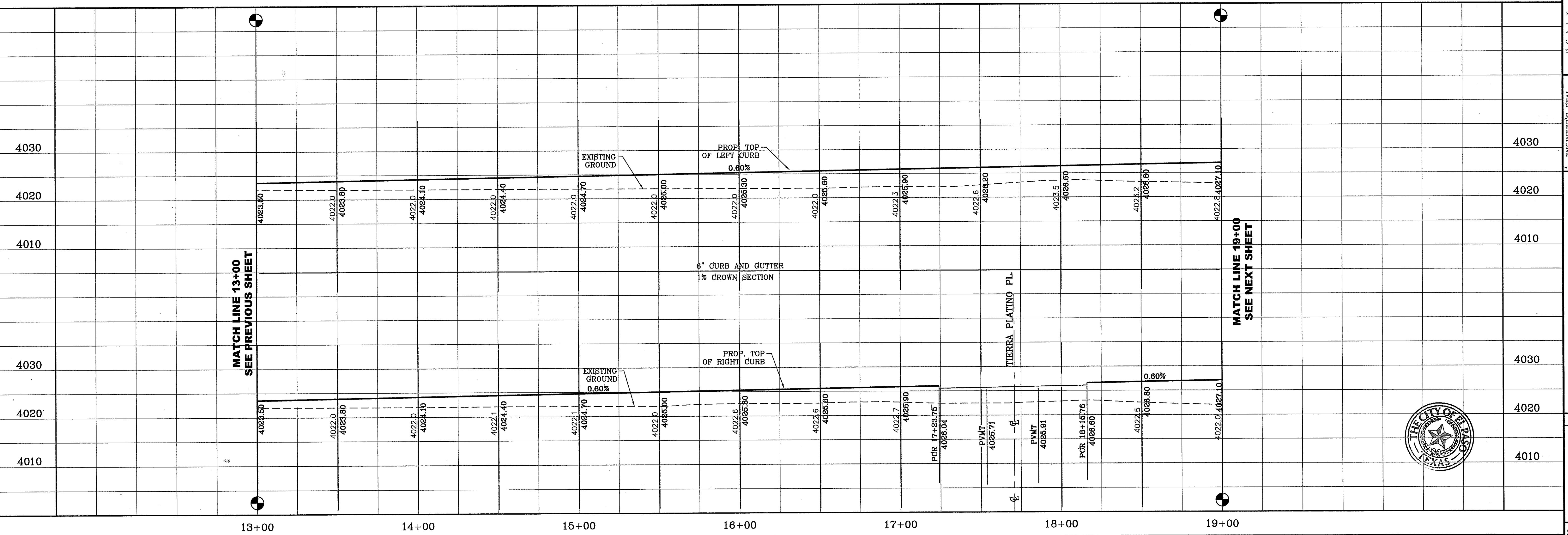
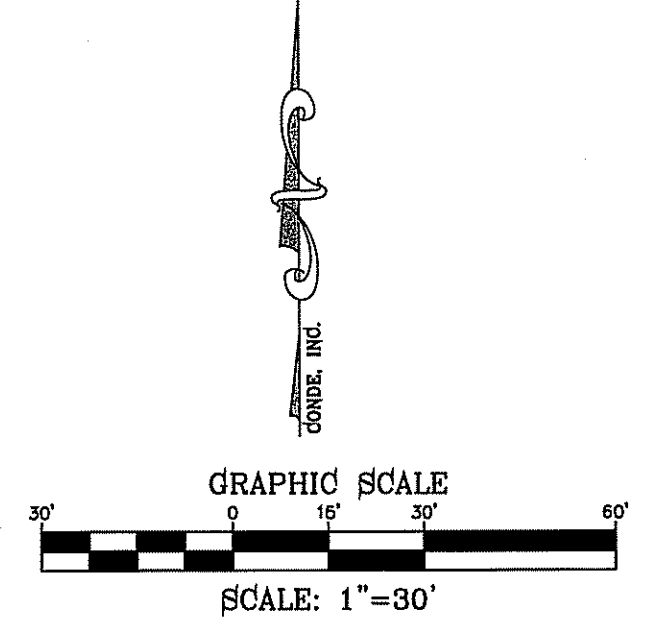
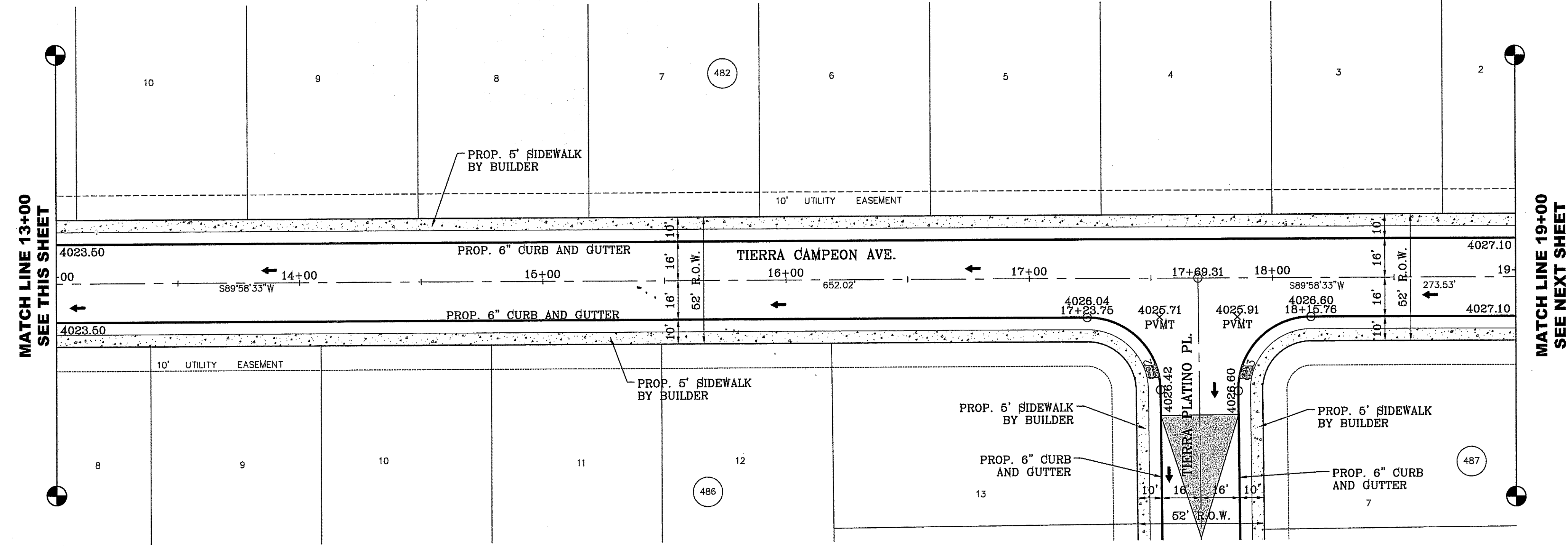
SHEET TITLE
STREET PLAN-PROFILE
CESAR CORDOVA PL. AND TIERRA CAMPEON AVE.

FILE LOCATION S:\Subdivisions\TDE 74\DWG\PP- 4 SHEETS PLOTTED ON Thursday, June 08, 2017 2:32:05 PM BY FELIX RODRIGUEZ

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C22	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"
C23	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"

LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
CHARLES FOSTER PL. AND JOHN HAYES ST.
ELEVATION = 4051.28NAVD88 DATUM

DATE _____ REVISIONS _____ BY _____

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR
BEING PORTION OF SECTION 48, BLOCK 79,
TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 60.987± ACRES

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6090 SURETY DE SITE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0263
FAX: (915) 592-0260

SHEET TITLE
**STREET
PLAN-PROFILE**

**TIERRA
CAMPEON AVE.**
STA: 13+00 TO
STA: 19+00

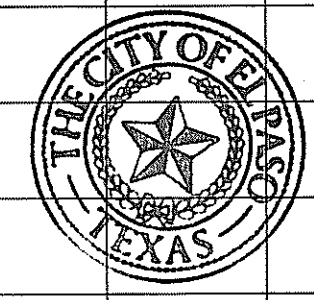
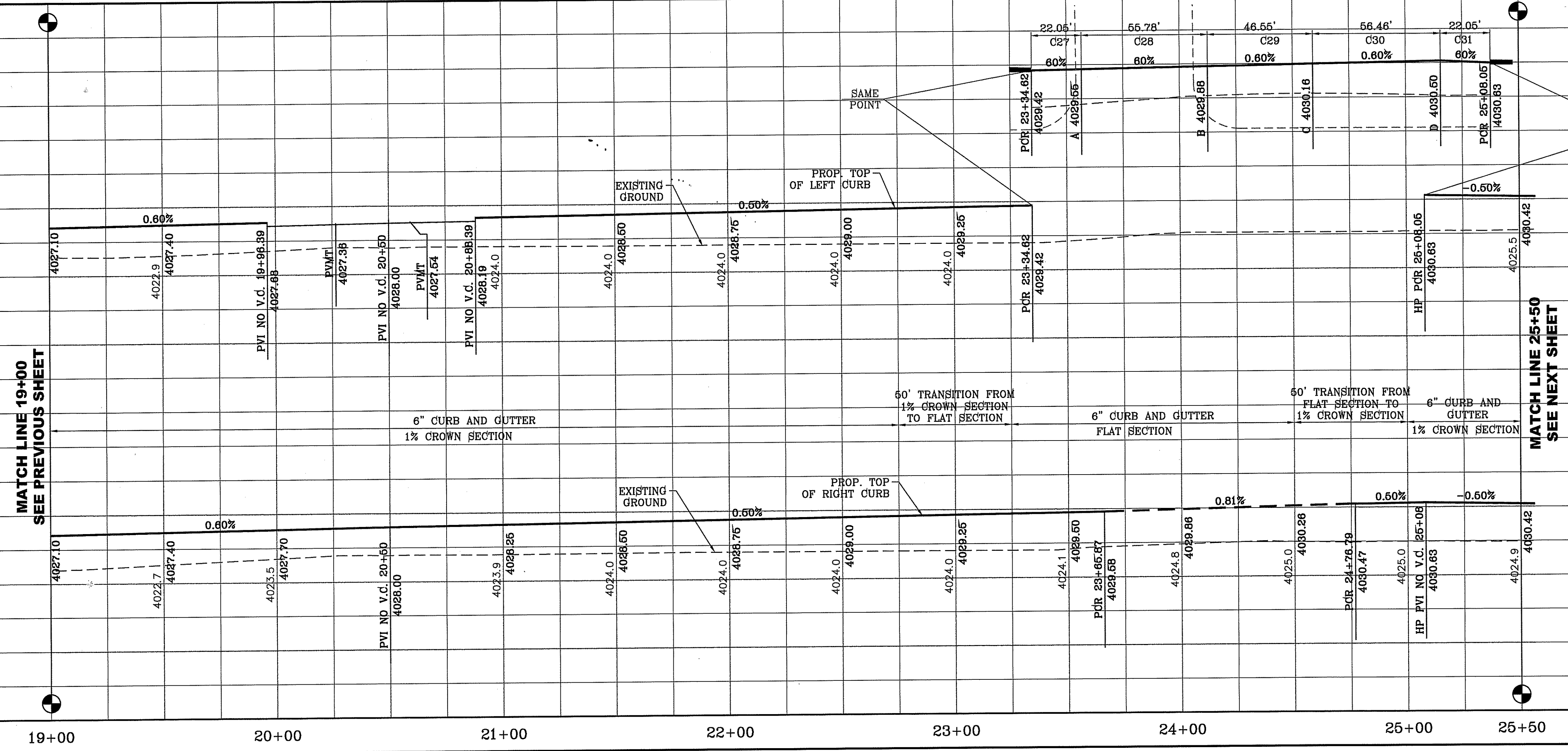
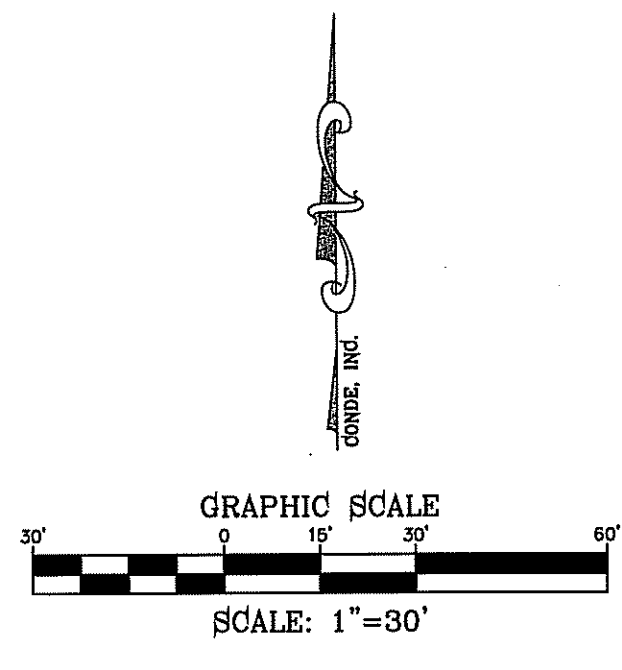
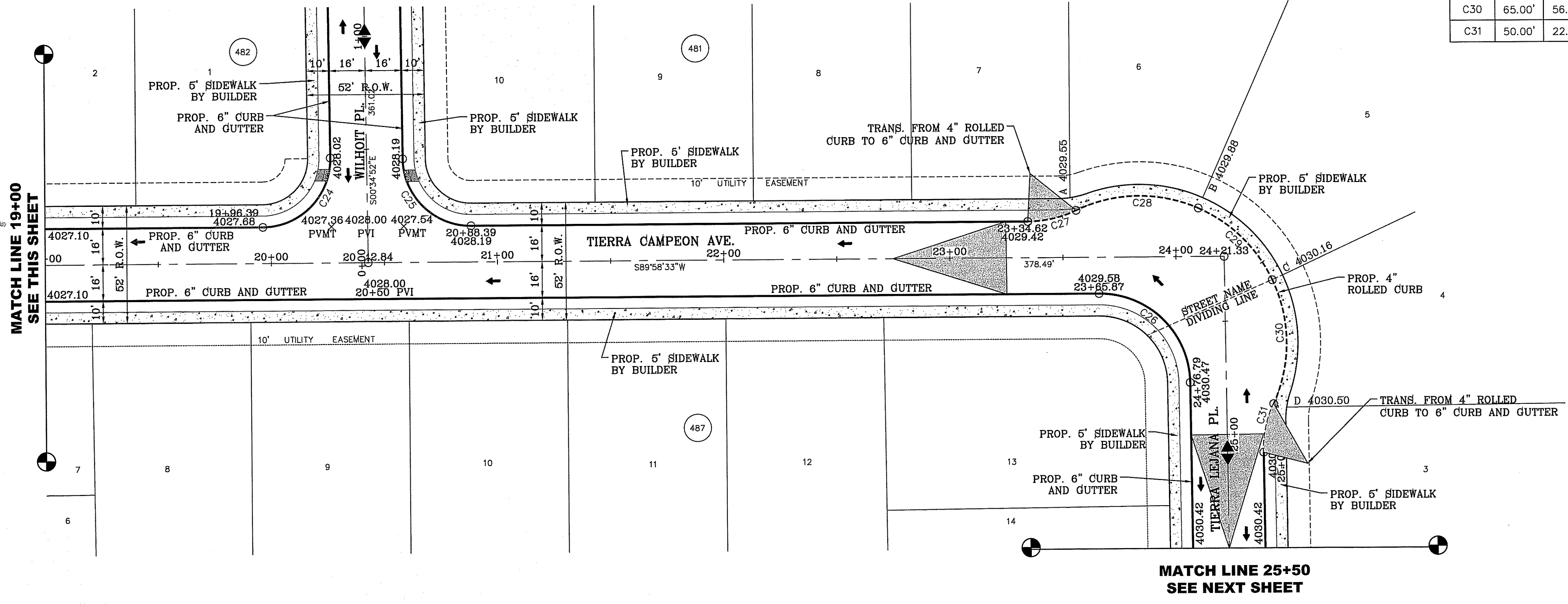
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LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C24	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C25	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C26	40.00'	62.44'	39.61'	56.29'	N45°18'10"W	89°26'35"
C27	50.00'	22.05'	11.21'	21.87'	N77°20'37"E	25°15'52"
C28	65.00'	55.79'	29.74'	54.09'	S89°17'56"W	49°10'29"
C29	65.00'	46.55'	24.32'	45.56'	N45°35'52"W	41°01'56"
C30	65.00'	56.46'	30.15'	54.70'	N0°11'57"W	49°45'54"
C31	50.00'	22.05'	11.21'	21.87'	S12°03'04"W	25°15'52"



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST.
ELEVATION = 4021.28 NAVD83 DATUM

DATE _____ REVISIONS _____ BY _____

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR

BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 743-41

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

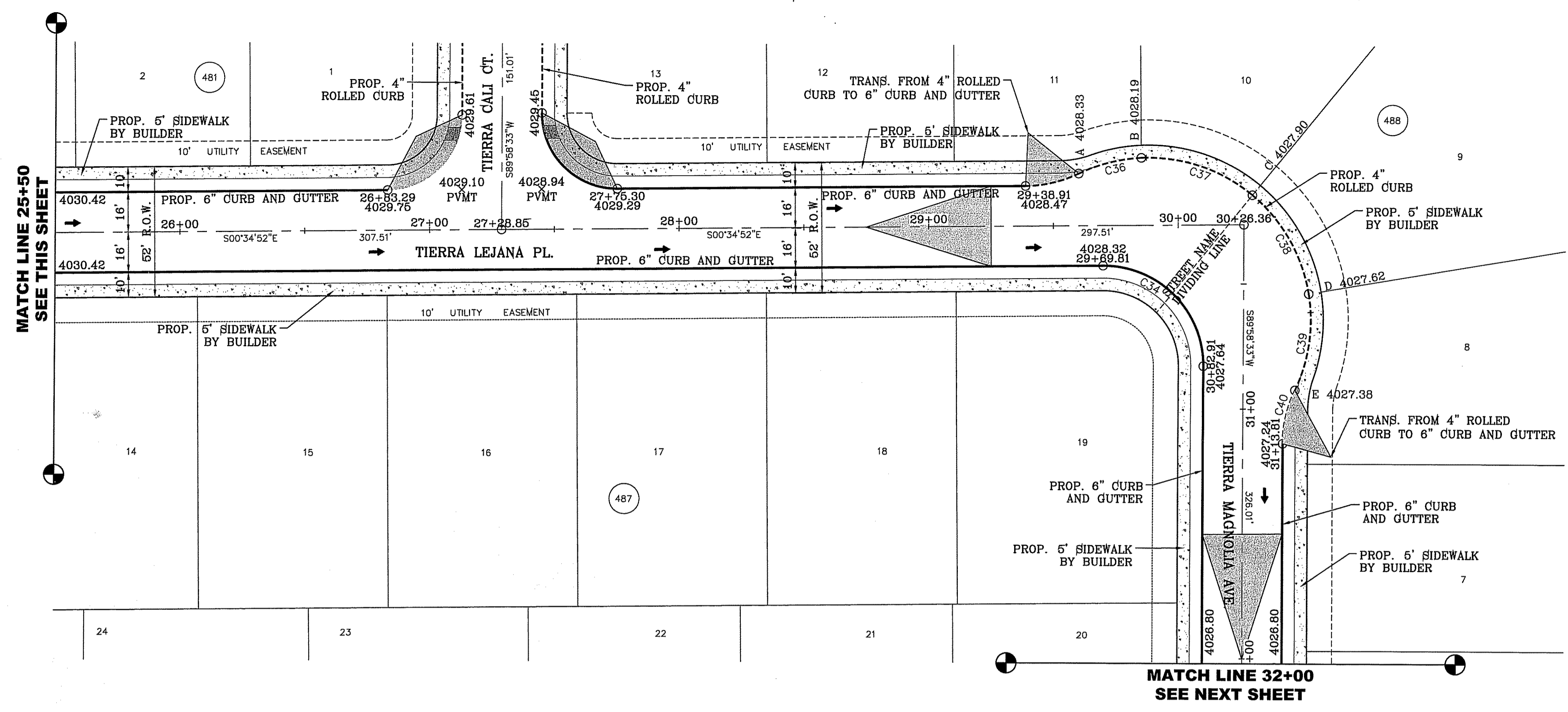
SHEET TITLE
STREET PLAN-PROFILE

TIERRA CAMPEON AVE. AND TIERRA LEJANA PL.

FILE LOCATION S:\Subdivisions\TDE 74\DWG\PP- 4 STEETS PLOTTED ON Thursday, June 08, 2017 2:35:35 PM BY FELIX RODRIGUEZ

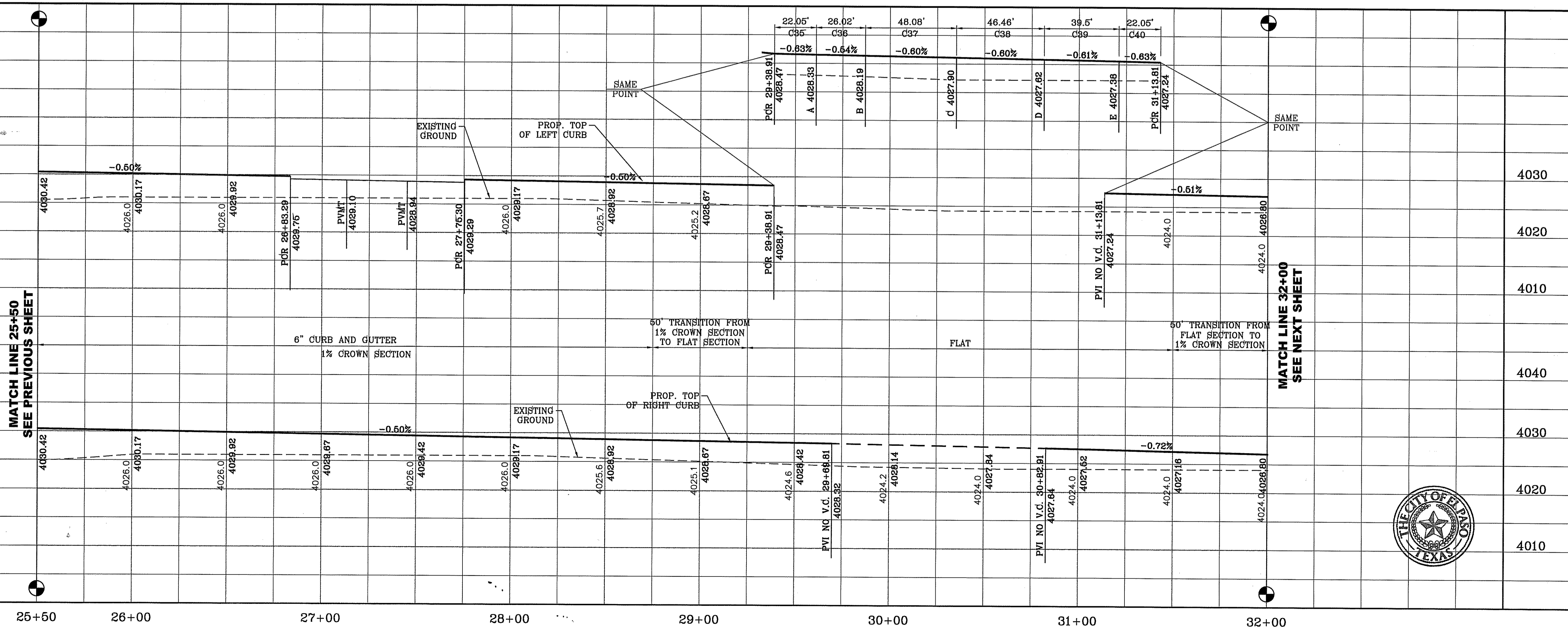
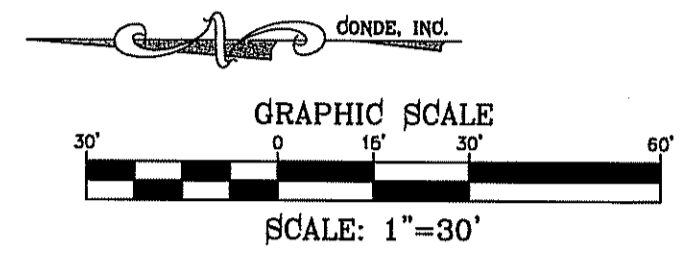
LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION



CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C32	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C33	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C34	40.00'	63.22'	40.39'	56.84'	N44°41'50"E	90°33'25"
C35	50.00'	22.05'	11.21'	21.87'	S13°12'48"E	25°15'52"
C36	65.00'	26.02'	13.18'	25.84'	N14°22'47"W	22°55'54"
C37	65.00'	48.08'	25.20'	46.99'	N18°16'33"E	42°22'45"
C38	65.00'	46.46'	24.27'	45.48'	N59°56'32"E	40°57'13"
C39	65.00'	39.50'	20.38'	38.90'	S82°10'13"E	34°49'17"
C40	50.00'	22.05'	11.21'	21.87'	N77°23'31"W	25°15'52"



PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.28NAVD88 DATUM

REVISIONS

DATE	BY

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'

ENGINEER'S SEAL
DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

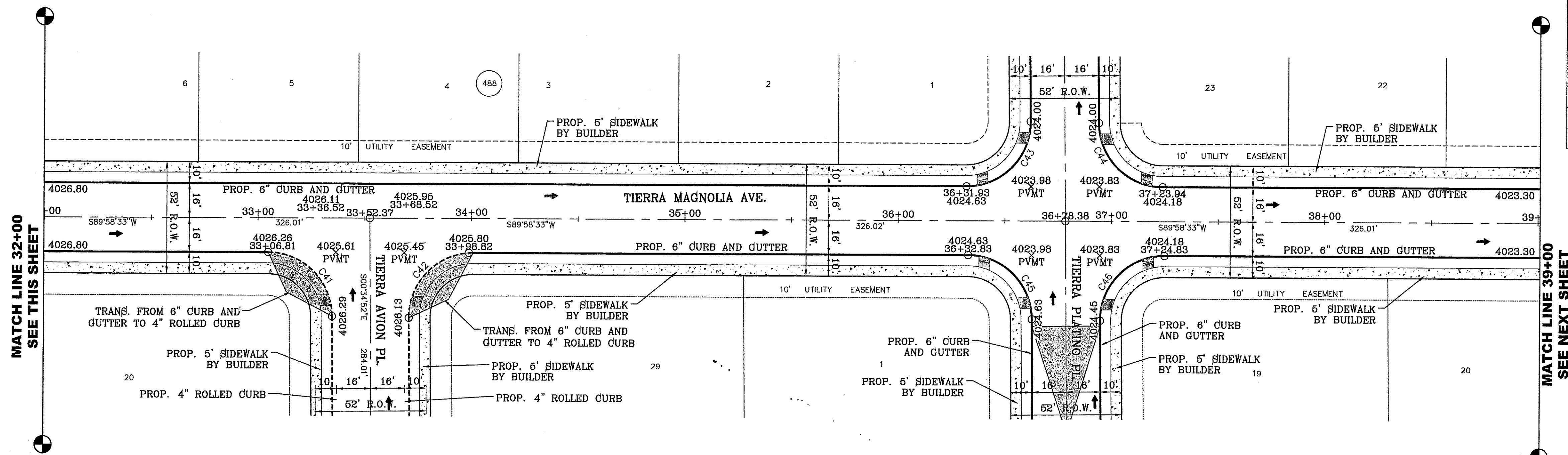
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DE SITE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

THE CITY OF EL PASO, TEXAS

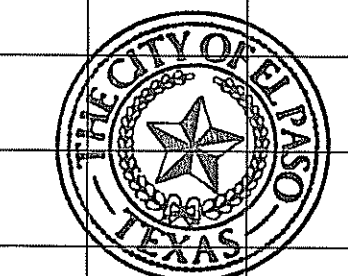
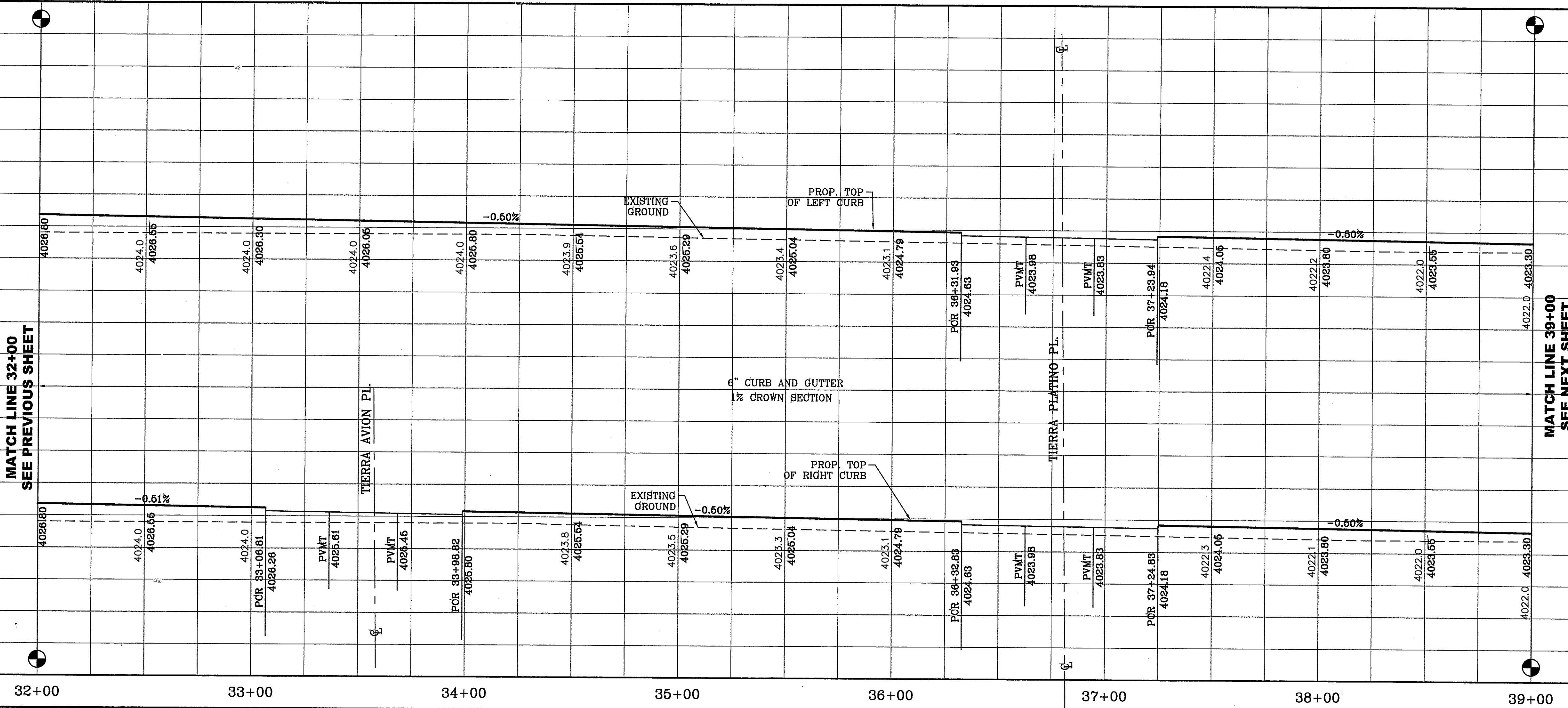
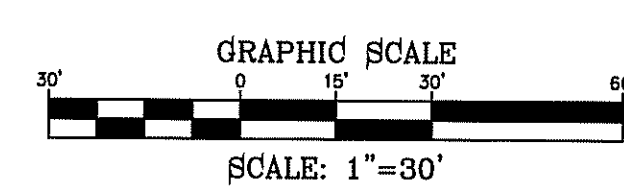
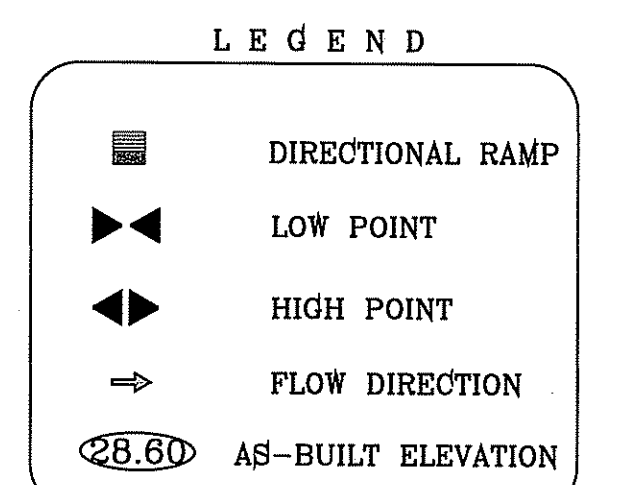
SHEET TITLE
STREET PLAN-PROFILE
TIERRA LEJANA PL. AND TIERRA MAGNOLIA AVE.

SHT 17 OF 53

FILE LOCATION: s:\Subdivisions\74\DWG\PP-4 STEETS PLOTTED ON Thursday, June 08, 2017 2:34:19 PM BY FELIX RODRIGUEZ



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C41	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C42	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C43	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C44	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"
C45	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C46	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"



MATCH LINE 39+00
SEE NEXT SHEET

MATCH LINE 32+00
SEE THIS SHEET

MATCH LINE 32+00
SEE PREVIOUS SHEET

MATCH LINE 39+00
SEE NEXT SHEET

REVISIONS	
DATE	BY

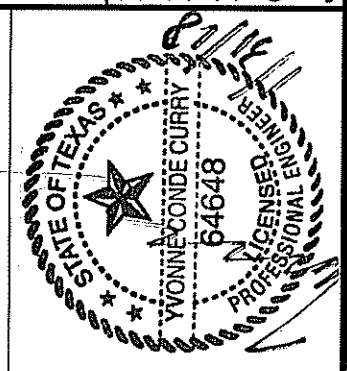
PROJECT NAME
TERRA DEL ESTE UNIT SEVENTY FOUR

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST.
ELEVATION = 4021.28 NAVD83 DATUM

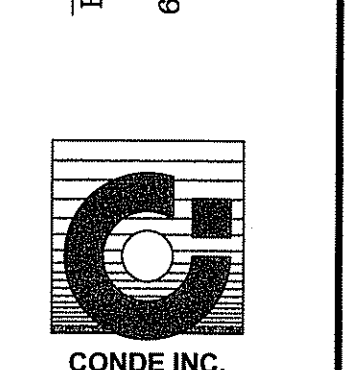
BRING PORTION OF SECTION 46, BLOCK 76 TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 719-41



CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 692-0286

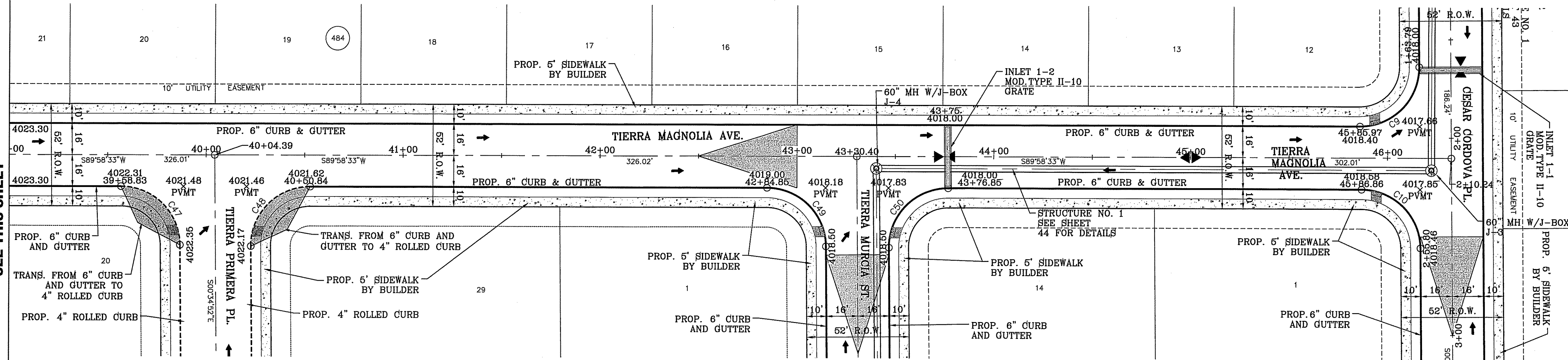


SHEET TITLE
TERRA MAGNOLIA AVE.
STA: 32+00 TO 39+00

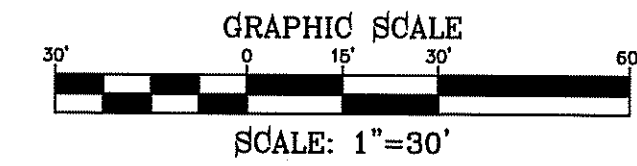
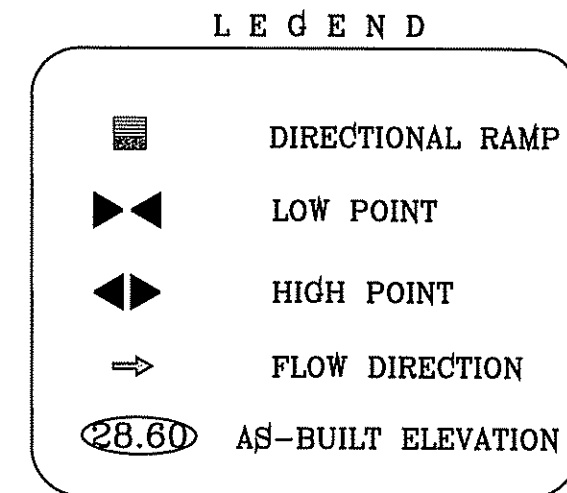
FILE LOCATION S:\Subdivisions\TDE 74\DWG\PP-4 STREETS PLOTTED ON Thursday, June 08, 2017 2:46:09 PM BY FELIX RODRIGUEZ

MATCH LINE 39+00
SEE THIS SHEET

MATCH LINE 39+00
SEE PREVIOUS SHEET



CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C8	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C9	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C47	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C48	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C49	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C50	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST.
ELEVATION = 4021.28 NAVD83 DATUM

DATE	REVISIONS	BY

TIERRA DEL ESTE UNIT SEVENTY FOUR
BEING PORTION OF SECTION 48, BLOCK 79 SURVEYS, TOWNSHIP 22N, RANGE 10E, COUNTY OF EL PASO, TEXAS
CONTAINING: 80.037± ACRES

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR

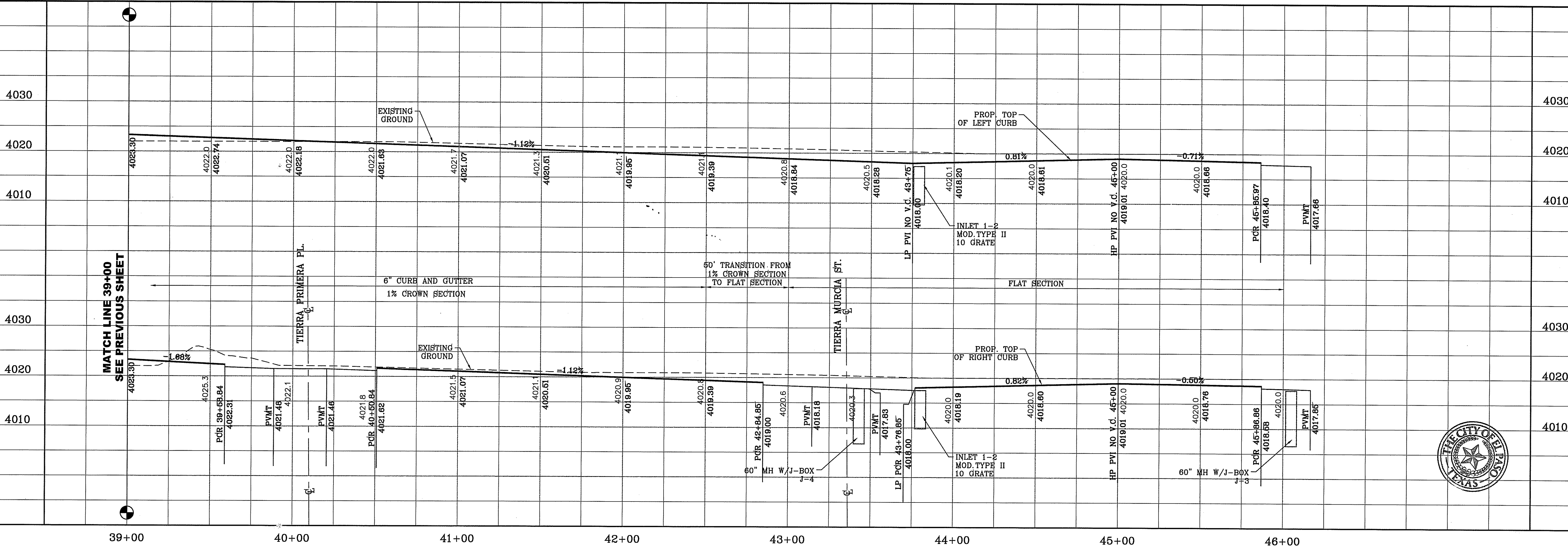
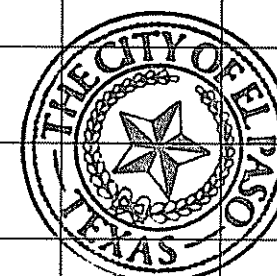
SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 719-41

ENGINEER'S SEAL

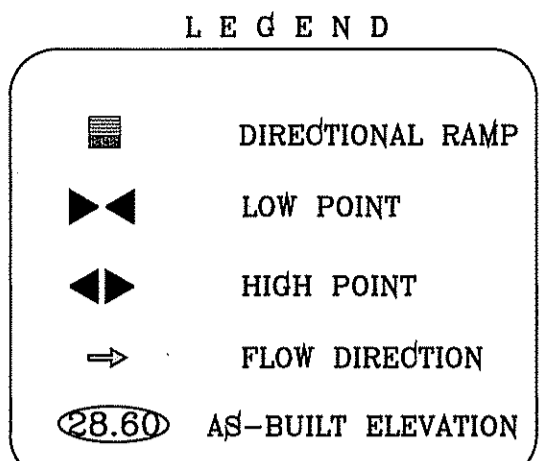
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
9090 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

SHEET TITLE
TIERRA MAGNOLIA AVE.
STREET PLAN-PROFILE
STA: 39+00 TO END

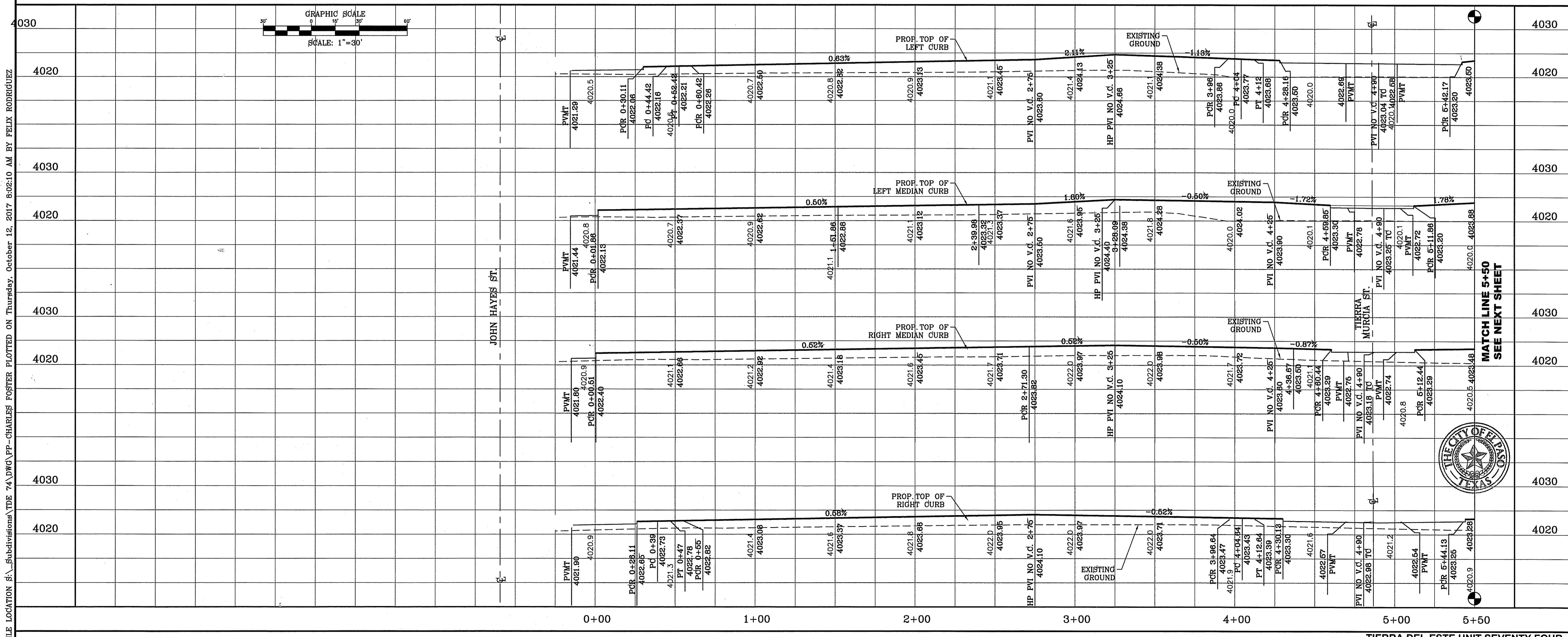
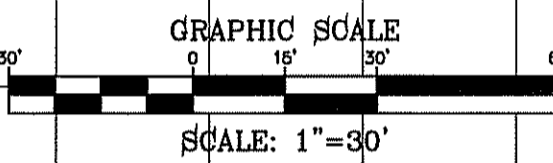
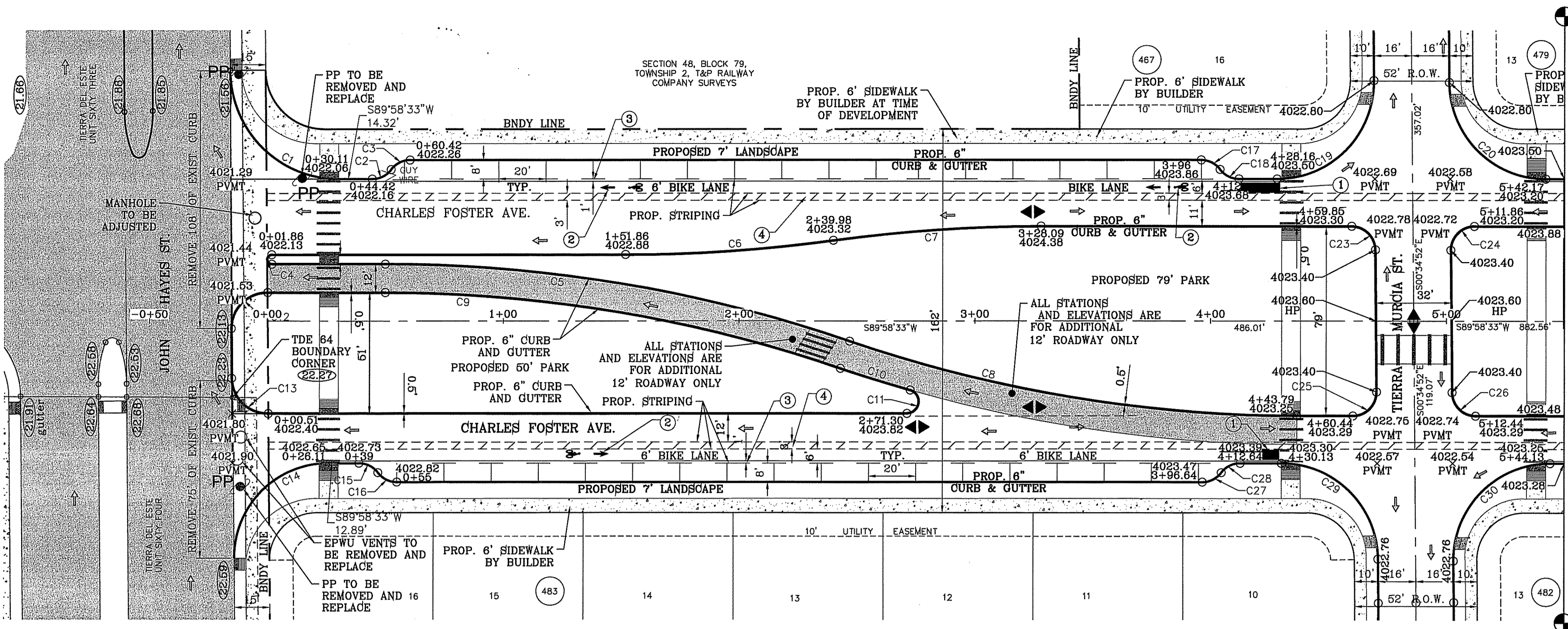


FILE LOCATION S:\Subdivisions\TDE 74 DWG\PP-CHARLES FOSTER PLOTTED ON Thursday, October 12, 2017 8:02:10 AM BY FELIX RODRIGUEZ

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	46.00'	71.81'	45.56'	64.74'	S45°18'10"E 89°26'35"
C2	10.00'	9.27'	5.00'	8.94'	N63°24'39"E 53°07'48"
C3	10.00'	9.27'	5.00'	8.94'	S63°24'39"W 53°07'48"
C4	2.00'	6.28'	INFINITY	4.00'	S0°34'52"E 180°00'00"
C5	611.00'	200.45'	101.13'	199.55'	N80°37'33"W 18°47'49"
C6	650.00'	88.39'	44.26'	88.32'	N86°04'49"E 7°47'27"
C7	650.00'	88.39'	44.26'	88.32'	S86°04'49"W 7°47'27"
C8	589.00'	193.23'	97.49'	192.37'	S80°37'33"E 18°47'49"
C9	599.00'	196.51'	99.15'	195.63'	N80°37'33"W 18°47'49"
C10	601.00'	31.06'	15.53'	31.05'	S72°42'28"E 2°37'39"
C11	5.00'	14.33'	35.95'	9.90'	N7°53'38"E 164°09'50"
C12	15.00'	23.71'	15.14'	21.32'	S44°41'50"W 90°30'55"
C13	15.00'	23.42'	14.85'	21.11'	S45°18'10"E 89°26'35"
C14	40.00'	63.22'	40.39'	56.84'	S44°41'50"W 90°33'25"
C15	10.00'	9.27'	5.00'	8.94'	N63°27'33"W 53°07'48"
C16	10.00'	9.27'	5.00'	8.94'	S63°27'33"E 53°07'48"
C17	10.00'	9.27'	5.00'	8.94'	N63°27'33"W 53°07'48"
C18	10.00'	9.27'	5.00'	8.94'	S63°27'33"E 53°07'48"
C19	41.00'	64.80'	41.40'	58.26'	N44°41'50"E 90°33'25"
C20	41.00'	64.00'	40.60'	57.70'	S45°18'10"E 89°26'35"
C21	10.00'	9.27'	5.00'	8.94'	N63°24'39"E 53°07'48"
C22	10.00'	9.27'	5.00'	8.94'	S63°24'39"W 53°07'48"
C23	10.00'	15.61'	9.90'	14.07'	N45°18'18"W 89°26'17"
C24	10.00'	15.81'	10.10'	14.21'	S44°41'50"W 90°33'25"
C25	10.00'	15.81'	10.10'	14.21'	N44°41'42"E 90°33'43"
C26	10.00'	15.61'	9.90'	14.07'	S45°18'10"E 89°26'35"
C27	10.00'	9.27'	5.00'	8.94'	N63°24'39"E 53°07'48"
C28	10.00'	9.27'	5.00'	8.94'	S63°24'39"W 53°07'48"
C29	41.00'	64.00'	40.60'	57.70'	N45°18'10"E 89°26'35"
C30	41.00'	64.80'	41.40'	58.26'	S44°41'50"W 90°33'25"
C31	10.00'	9.27'	5.00'	8.94'	N63°27'33"W 53°07'48"
C32	10.00'	9.27'	5.00'	8.94'	S63°27'33"E 53°07'48"



- STRIPING KEYED NOTES**
- 25' LONG COLOR GREEN RESIN TO DISCOURAGE MOTORIST FROM CROSSING BIKE PATH.
 - MUTCD FIG. 9C-3 SHALL BE USED TO DEFINE THE BIKE LANE.
 - STRIPING FOR THE BIKE LANE TO HAVE A 1 FOOT BUFFER TO REDUCE DOOR ZONE CONFLICTS.
 - THE BUFFER SHALL BE MARKED WITH 2 SOLID WHITE LINES WITH DIAGONAL HATCHING.
 - FOR COMPLETE PATH OF TRAVEL REFER TO LANDSCAPE PLANS.



MATCH LINE 5+50
SEE NEXT SHEET

MATCH LINE 5+50
SEE NEXT SHEET

TIERRA DEL ESTE UNIT SEVENTY FOUR
BRING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

PROJECT NAME
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER AND JOHN HAYES ST.
ELEVATION = 4021.28 CITY DATUM

REVISIONS

NO.	DATE	BY	REVISIONS

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41



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
CHARLES FOSTER AVE.
FROM STA: 0+00 TO STA: 5+50

SHT 20 OF 53

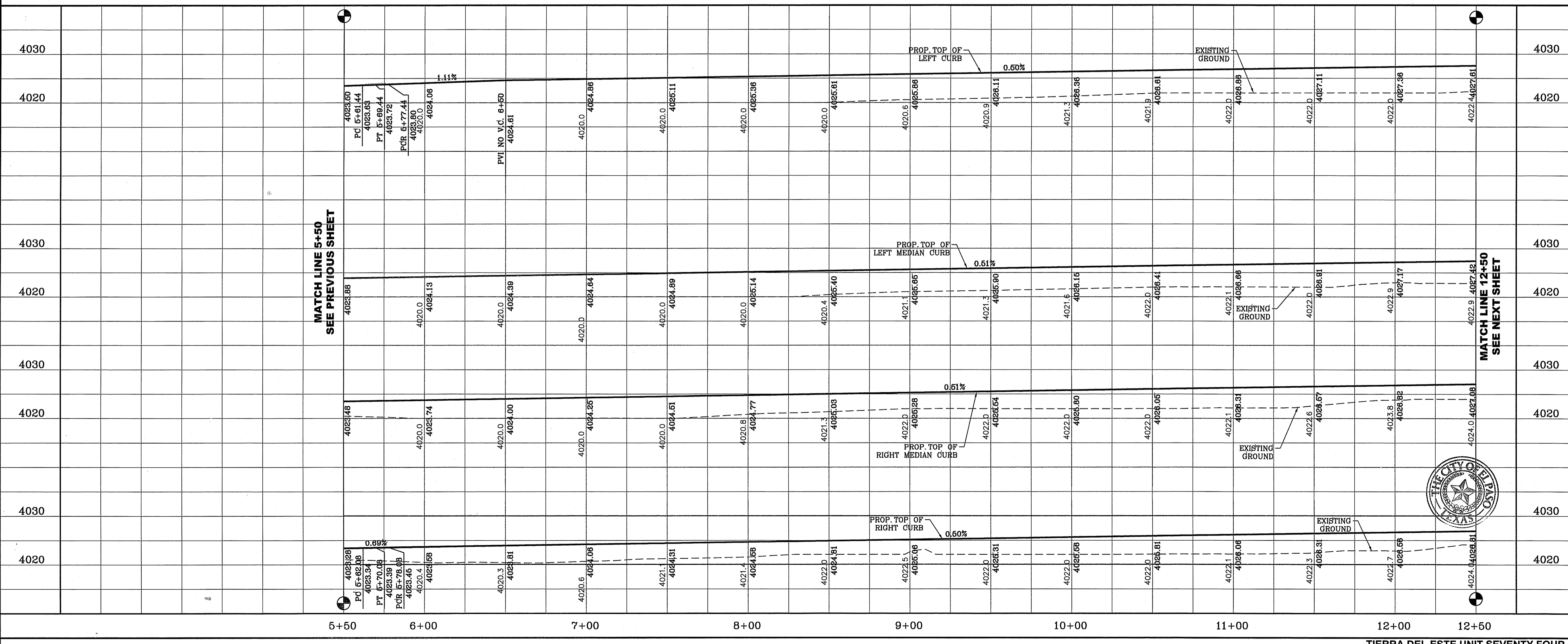
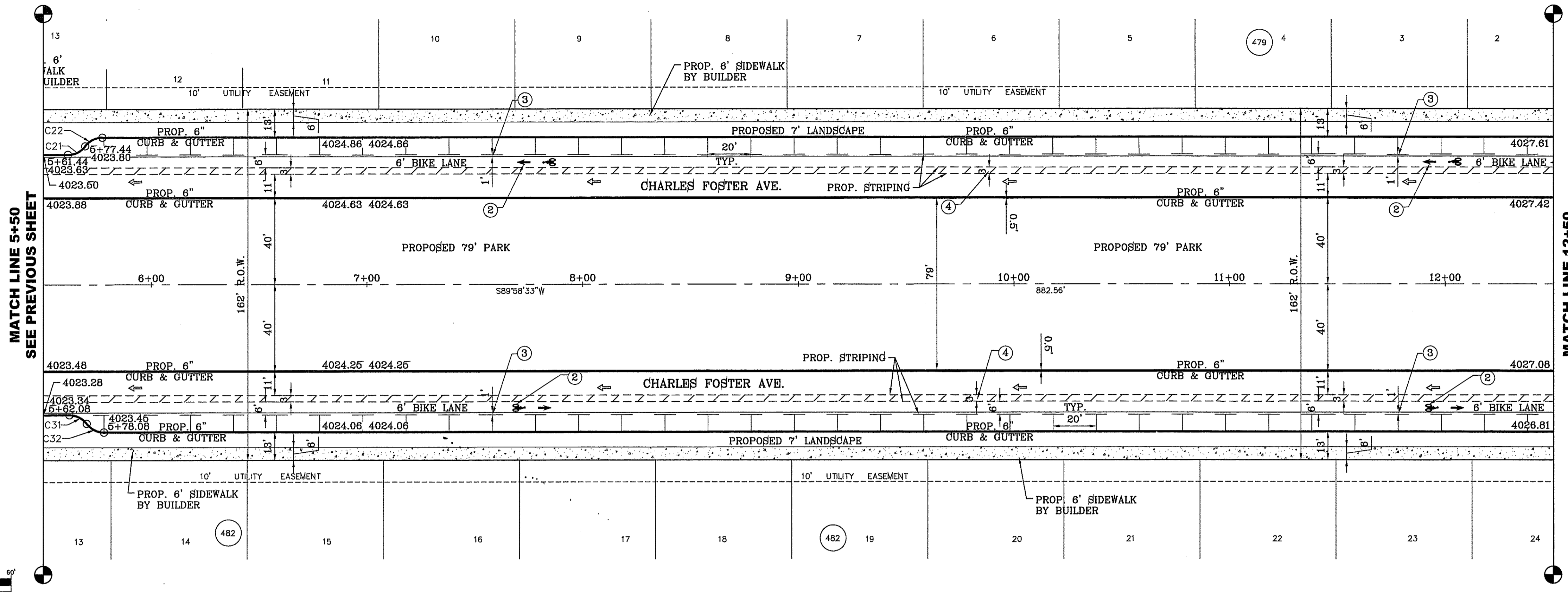
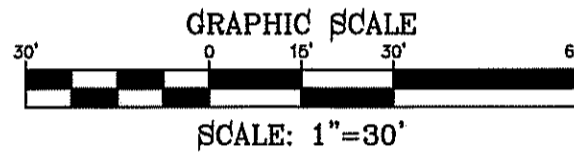
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C21	10.00'	9.27'	5.00'	8.94'	N63°24'39"E	53°07'48"
C22	10.00'	9.27'	5.00'	8.94'	S63°24'39"W	53°07'48"
C31	10.00'	9.27'	5.00'	8.94'	N63°27'33"W	53°07'48"
C32	10.00'	9.27'	5.00'	8.94'	S63°27'33"E	53°07'48"

STRIPING KEYED NOTES

- 25' LONG COLOR GREEN RESIN TO DISCOURAGE MOTORIST FROM CROSSING BIKE PATH.
- MUTCD FIG. 9C-3 SHALL BE USED TO DEFINE THE BIKE LANE.
- STRIPING FOR THE BIKE LANE TO HAVE A 1 FOOT BUFFER TO REDUCE DOOR ZONE CONFLICTS.
- THE BUFFER SHALL BE MARKED WITH 2 SOLID WHITE LINES WITH DIAGONAL HATCHING.
- FOR COMPLETE PATH OF TRAVEL REFER TO LANDSCAPE PLANS.

LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION



FILE LOCATION S:\Subdivisions\TDE 74 DWG\PP-CHARLES_FOSTER_PLOTTED ON Thursday, October 12, 2017 8:05:57 AM BY FELIX RODRIGUEZ

TIERRA DEL ESTE UNIT SEVENTY FOUR
 BEING PORTION OF SECTION 48, BLOCK 79
 TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 80.087± ACRES

CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6090 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

THE CITY OF EL PASO, TEXAS

PROJECT NAME: TIERRA DEL ESTE UNIT SEVENTY FOUR
 BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.26CITY DATUM

SCALE: HORIZ: 1" = 30'
 VERT: 1" = 10'

DATE: MARCH 2016
 DESIGN BY: Y.C.
 INITIATED BY: F.R.
 CHECKED BY: Y.C.
 JOB NO.: 719-41

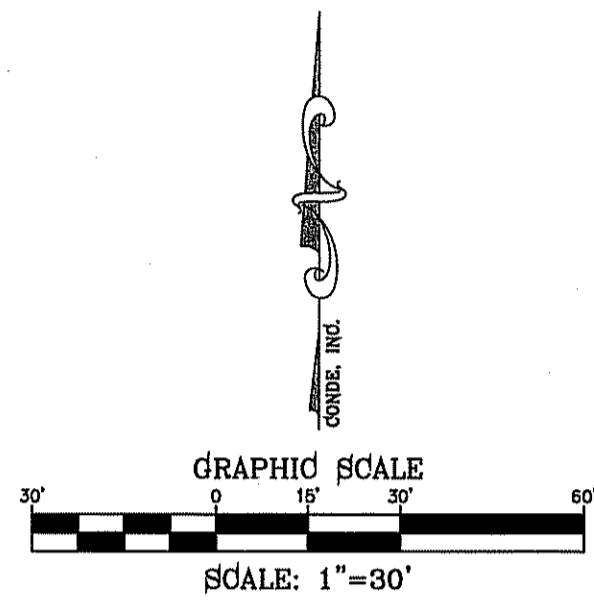
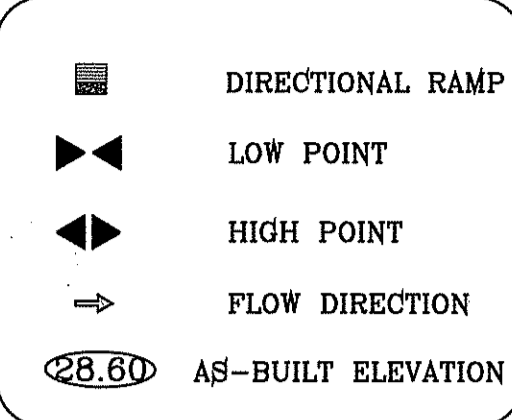
REVISIONS

DATE

BY

FILE LOCATION: \Subdivisions\TDE 74 DWG\PP-CHARLES_FOSTER_PLOTTED ON Thursday, October 12, 2017 8:07:25 AM BY FELIX RODRIGUEZ

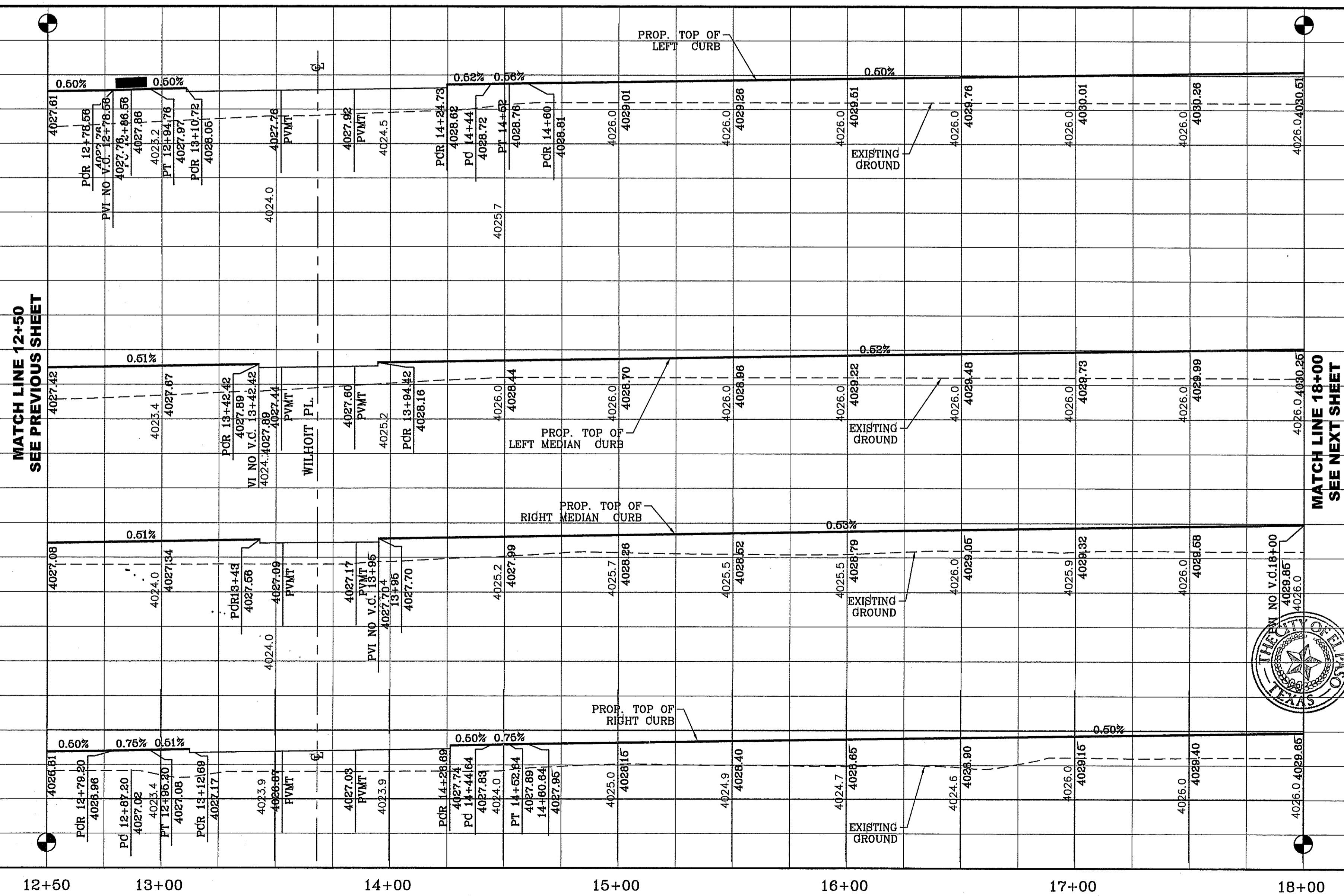
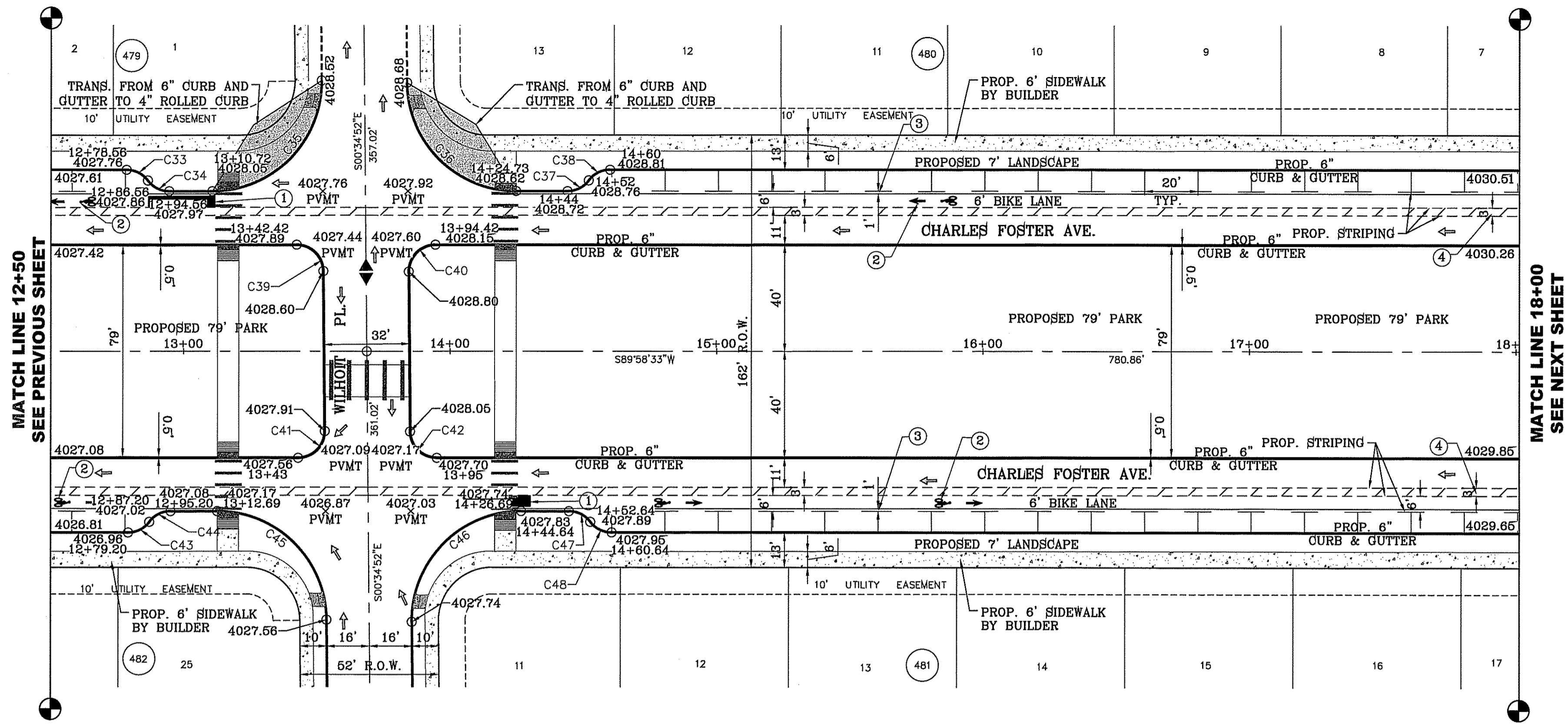
LEGEND



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C33	10.00'	9.27'	5.00'	8.94'	N63°27'33"W	53°07'48"
C34	10.00'	9.27'	5.00'	8.94'	S63°27'33"E	53°07'48"
C35	41.00'	64.80'	41.40'	58.26'	N44°41'50"E	90°33'25"
C36	41.00'	64.00'	40.60'	57.70'	S45°18'10"E	89°26'35"
C37	10.00'	9.27'	5.00'	8.94'	N63°24'39"E	53°07'48"
C38	10.00'	9.27'	5.00'	8.94'	S63°24'39"W	53°07'48"
C39	10.00'	15.61'	9.90'	14.07'	N45°18'10"W	89°26'35"
C40	10.00'	15.81'	10.10'	14.21'	S44°41'50"W	90°33'25"
C41	10.00'	15.81'	10.10'	14.21'	N44°41'50"E	90°33'25"
C42	10.00'	15.61'	9.90'	14.07'	S45°18'10"E	89°26'35"
C43	10.00'	9.27'	5.00'	8.94'	N63°24'39"E	53°07'48"
C44	10.00'	9.27'	5.00'	8.94'	S63°24'39"W	53°07'48"
C45	41.00'	64.00'	40.60'	57.70'	N45°18'10"W	89°26'35"
C46	41.00'	64.80'	41.40'	58.26'	S44°41'50"W	90°33'25"
C47	10.00'	9.27'	5.00'	8.94'	N63°27'33"E	53°07'48"
C48	10.00'	9.27'	5.00'	8.94'	S63°27'33"E	53°07'48"

STRIPING KEYED NOTES

- 25' LONG COLOR GREEN RESIN TO DISCOURAGE MOTORIST FROM CROSSING BIKE PATH.
- MUTCD FIG. 9C-3 SHALL BE USED TO DEFINE THE BIKE LANE.
- STRIPING FOR THE BIKE LANE TO HAVE A 1 FOOT BUFFER TO REDUCE DOOR ZONE CONFLICTS.
- THE BUFFER SHALL BE MARKED WITH 2 SOLID WHITE LINES WITH DIAGONAL HATCHING.
- FOR COMPLETE PATH OF TRAVEL REFER TO LANDSCAPE PLANS.



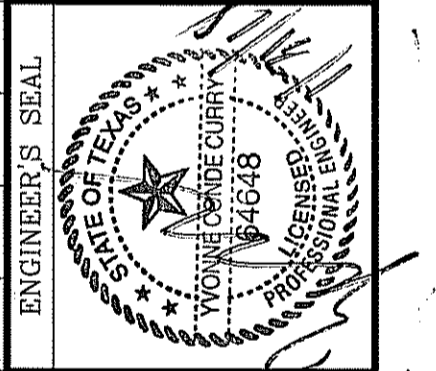
TIERRA DEL ESTE UNIT SEVENTY FOUR

SHT 22 OF 53

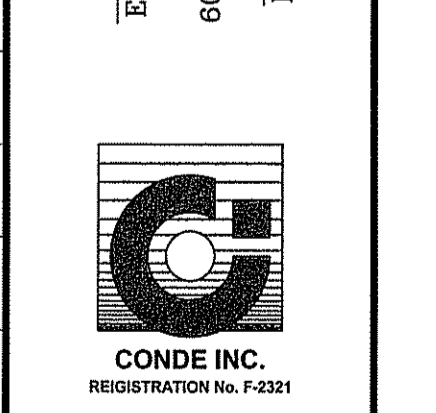
BENCHMARK	CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.28CITY DATUM
DATE	
REVISIONS	
BY	

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR
BRING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'
DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 719-41



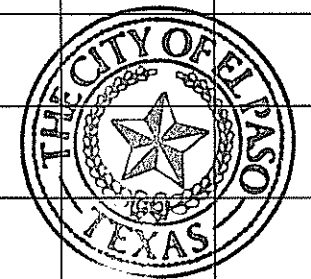
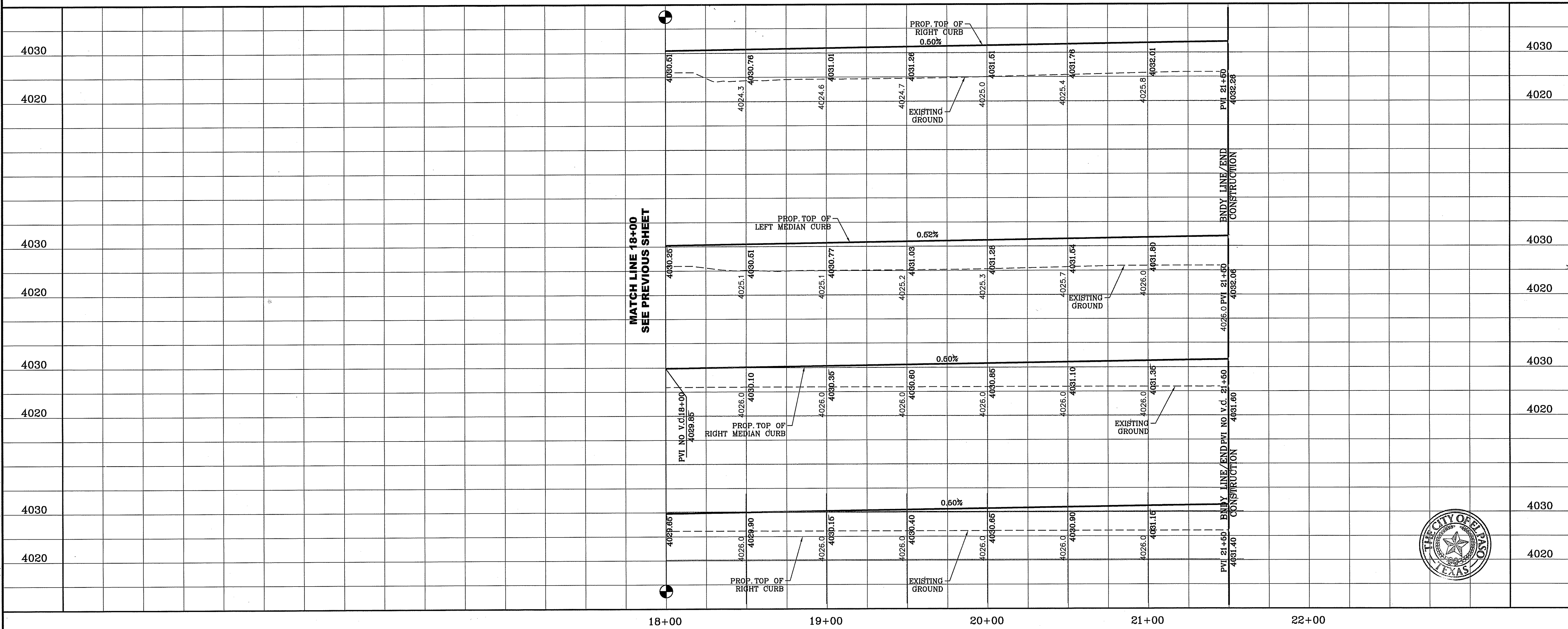
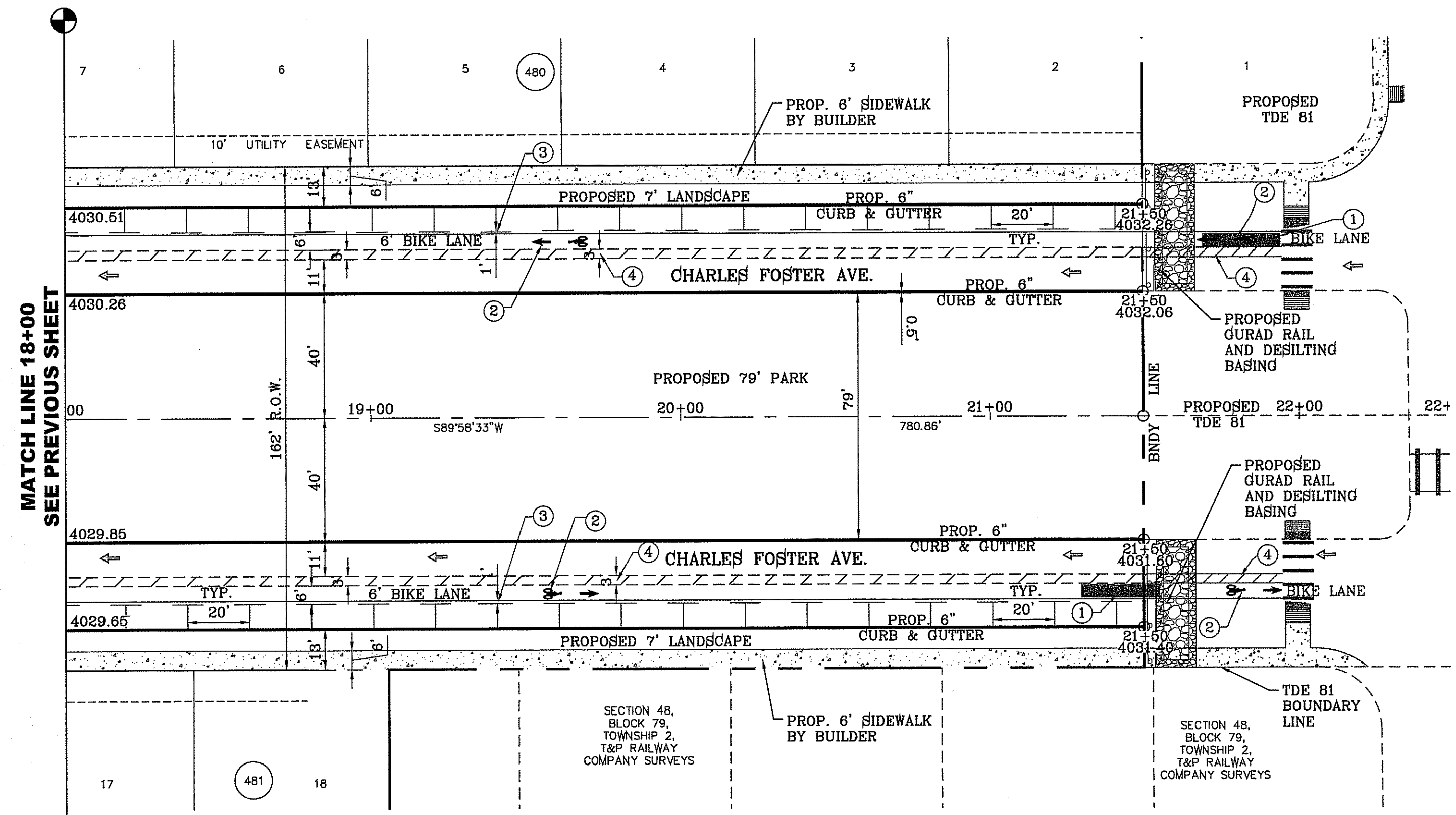
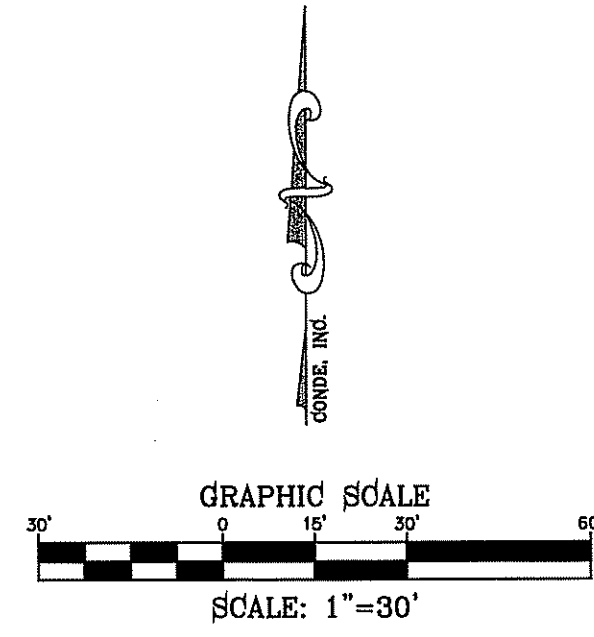
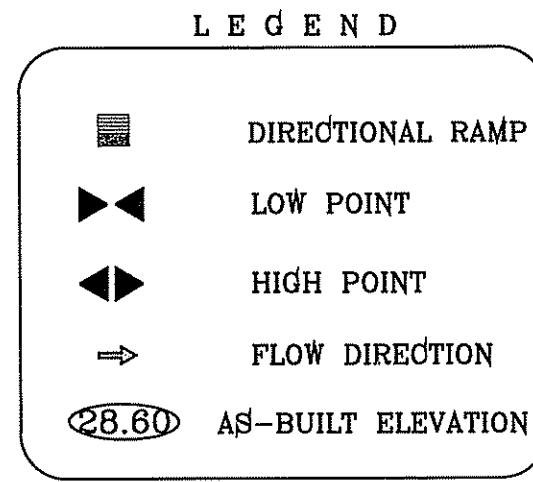
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286



SHEET TITLE
CHARLES FOSTER AVE.
FROM STA: 12+50 TO STA: 18+00

FILE LOCATION: S:\Subdivisions\TDE 74\DWG\PP-CHARLES FOSTER PLOTTED ON Thursday, October 12, 2017 8:11:15 AM BY FELIX RODRIGUEZ

- STRIPING KEYED NOTES**
- 25' LONG COLOR GREEN RESIN TO DISCOURAGE MOTORIST FROM CROSSING BIKE PATH.
 - MUTCD FIG. 9C-3 SHALL BE USED TO DEFINE THE BIKE LANE.
 - STRIPING FOR THE BIKE LANE TO HAVE A 1 FOOT BUFFER TO REDUCE DOOR ZONE CONFLICTS.
 - THE BUFFER SHALL BE MARKED WITH 2 SOLID WHITE LINES WITH DIAGONAL HATCHING.
 - FOR COMPLETE PATH OF TRAVEL REFER TO LANDSCAPE PLANS.



TIERRA DEL ESTE UNIT SEVENTY FOUR

PROJECT NAME: TIERRA DEL ESTE UNIT SEVENTY FOUR

BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL AND JOHN HAYES ST. ELEVATION = 4021.28CITY DATUM

DATE: MARCH 2016

DESIGN BY: Y.C.

INITIATED BY: F.R.

CHECKED BY: Y.C.

JOB NO.: 713-41

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

REGISTRATION No. F-2291

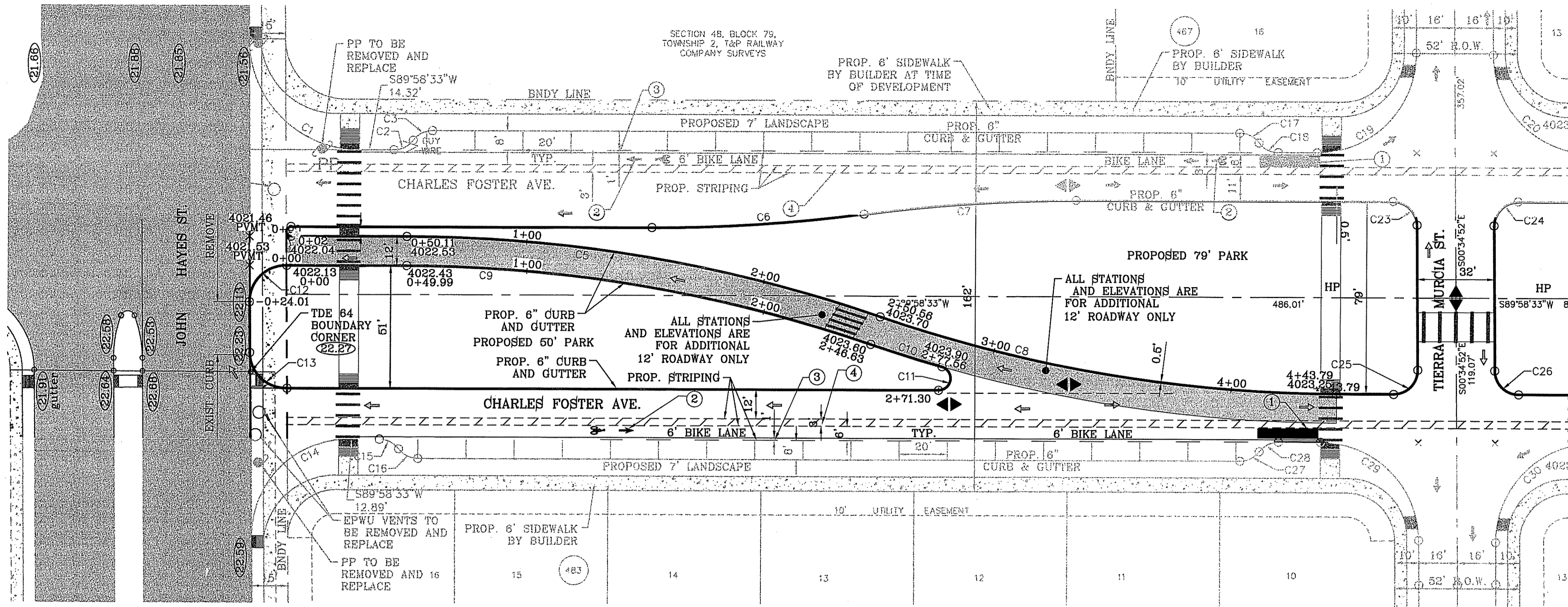
SHEET TITLE: STREET PLAN-PROFILE

CHARLES FOSTER AVE.

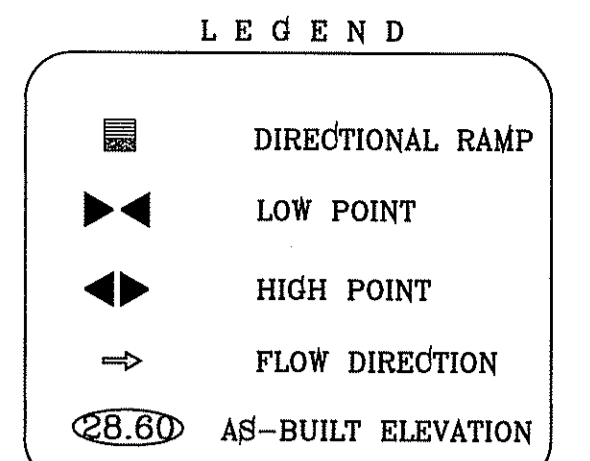
FROM STA: 18+00 TO STA: 21+50

SHT 23 OF 53

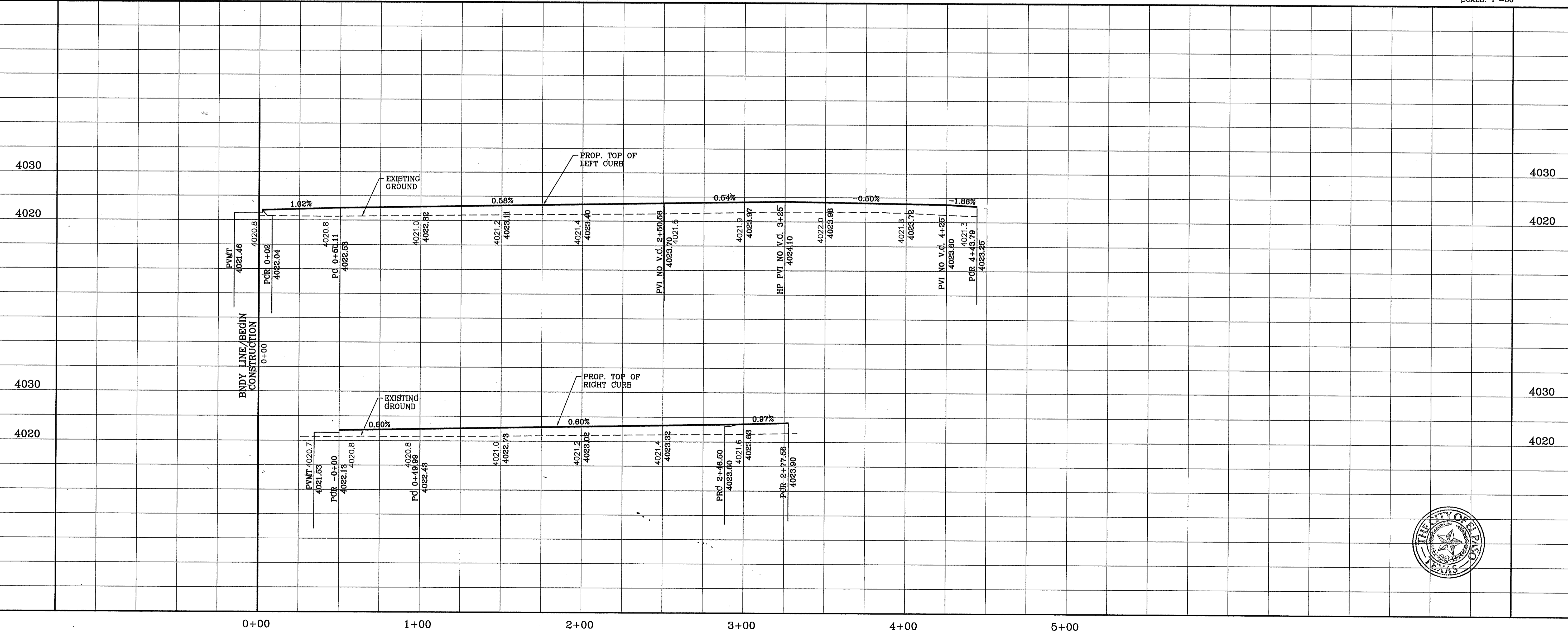
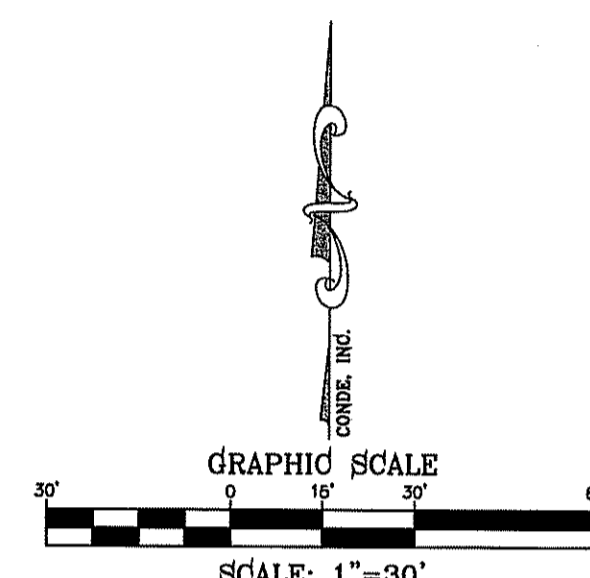
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CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	46.00'	71.81'	45.56'	64.74'	S45°18'10"E	89°26'35"
C2	10.00'	9.27'	5.00'	8.94'	N63°24'39"E	53°07'48"
C3	10.00'	9.27'	5.00'	8.94'	S63°24'39"W	53°07'48"
C4	2.00'	6.28'	INFINITY	4.00'	S0°34'52"E	180°00'00"
C5	611.00'	200.45'	101.13'	199.55'	N80°37'33"W	18°47'49"
C6	650.00'	88.39'	44.26'	88.32'	N86°04'49"E	7°47'27"
C7	650.00'	88.39'	44.26'	88.32'	S86°04'49"W	7°47'27"
C8	589.00'	193.23'	97.49'	192.37'	S80°37'33"E	18°47'49"
C9	599.00'	196.51'	99.15'	195.63'	N80°37'33"W	18°47'49"
C10	601.00'	31.06'	15.53'	31.05'	S72°42'28"E	2°57'39"
C11	5.00'	14.33'	35.95'	9.90'	N75°3'38"E	164°09'50"
C12	15.00'	23.71'	15.14'	21.32'	S44°41'50"W	90°30'55"
C13	15.00'	23.42'	14.85'	21.11'	S45°18'10"W	89°26'35"
C14	40.00'	63.22'	40.39'	56.84'	S44°41'50"W	90°33'25"
C15	10.00'	9.27'	5.00'	8.94'	N63°27'33"W	53°07'48"
C16	10.00'	9.27'	5.00'	8.94'	S63°27'33"E	53°07'48"
C17	10.00'	9.27'	5.00'	8.94'	N63°27'33"W	53°07'48"
C18	10.00'	9.27'	5.00'	8.94'	S63°27'33"E	53°07'48"
C19	41.00'	64.80'	41.40'	58.25'	N44°41'50"E	90°33'25"
C20	41.00'	64.00'	40.60'	57.70'	S45°18'10"E	89°26'35"
C21	10.00'	9.27'	5.00'	8.94'	N63°24'39"E	53°07'48"
C22	10.00'	9.27'	5.00'	8.94'	S63°24'39"W	53°07'48"
C23	10.00'	15.61'	9.90'	14.07'	N45°18'10"W	89°26'17"
C24	10.00'	15.81'	10.10'	14.21'	S44°41'50"W	90°33'25"
C25	10.00'	15.81'	10.10'	14.21'	N44°41'42"E	90°33'43"
C26	10.00'	15.61'	9.90'	14.07'	S45°18'10"E	89°26'35"
C27	10.00'	9.27'	5.00'	8.94'	N63°24'39"E	53°07'48"
C28	10.00'	9.27'	5.00'	8.94'	S63°24'39"W	53°07'48"
C29	41.00'	64.00'	40.60'	57.70'	N45°18'10"W	89°26'35"
C30	41.00'	64.80'	41.40'	58.25'	S44°41'50"W	90°33'25"



- STRIPING KEYED NOTES**
- 25' LONG COLOR GREEN RESIN TO DISCOURAGE MOTORIST FROM CROSSING BIKE PATH.
 - MUTCD FIG. 9C-3 SHALL BE USED TO DEFINE THE BIKE LANE.
 - STRIPING FOR THE BIKE LANE TO HAVE A 1 FOOT BUFFER TO REDUCE DOOR ZONE CONFLICTS.
 - THE BUFFER SHALL BE MARKED WITH 2 SOLID WHITE LINES WITH DIAGONAL HATCHING.
 - FOR COMPLETE PATH OF TRAVEL REFER TO LANDSCAPE PLANS.



PROJECT NAME: **TIERRA DEL ESTE UNIT SEVENTY FOUR**
 BEING PORTION OF SECTION 46, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 60.0374 ACRES

ENGINEER'S SEAL: [Professional Engineer Seal]

CONDE INC.
 ENGINEERING / PLANNING / SURVEYING / GPS
 6080 SUITE DR STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0288
 FAX: (915) 592-0286

SHEET TITLE: **STREET PLAN - PROFILE CHARLES FOSTER AVE. ADDITIONAL ROADWAY**
 FROM STA: 0+00 TO STA: 5+00

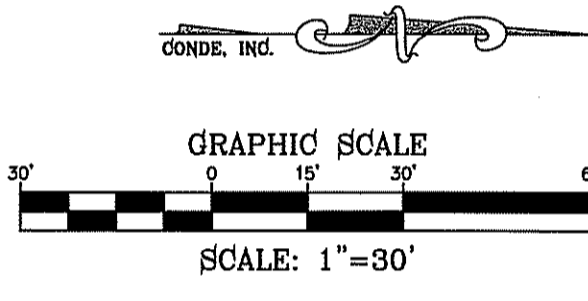
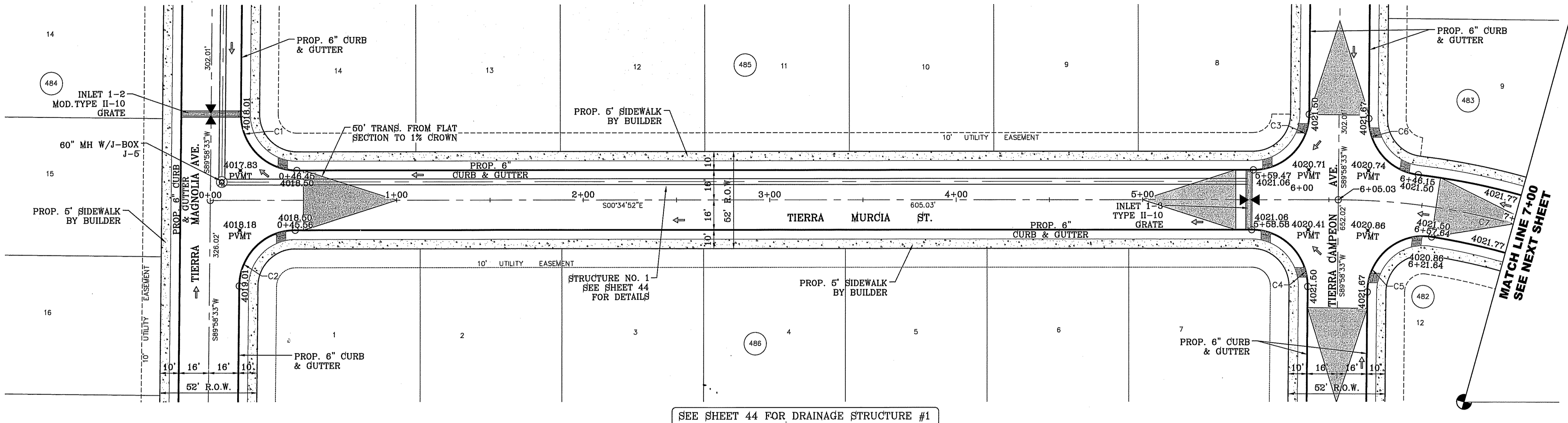
SHT 24 OF 53

FILE LOCATION: S:\Subdivisions\74\DWG\PP-TIERRA MURCIA PLOTTED ON Thursday, June 08, 2017 2:56:24 PM BY FELIX RODRIGUEZ

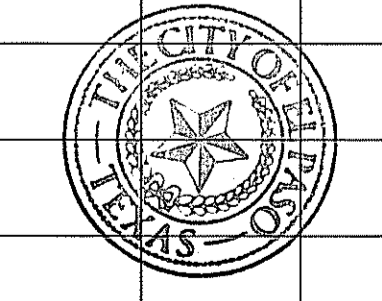
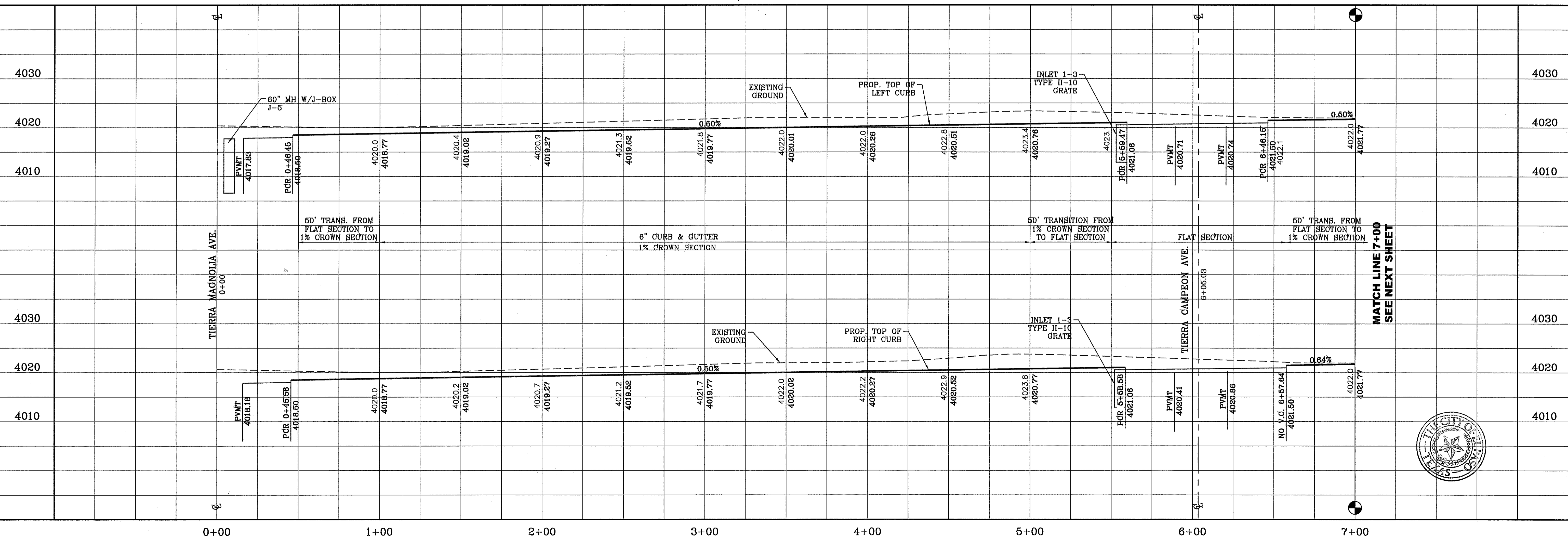
LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C2	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C3	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"
C4	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C5	30.00'	51.34'	34.54'	45.30'	S40°59'48"E	98°03'18"
C6	30.00'	43.89'	26.93'	40.08'	N48°03'48"E	83°49'29"
C7	350.00'	123.30'	62.30'	122.66'	S9°30'40"W	20°11'05"



SEE SHEET 44 FOR DRAINAGE STRUCTURE #1



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.28NAVD88 DATUM

DATE	REVISIONS	BY

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR

BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEY, CITY OF CONTAINING: 80.037± ACRES

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

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

CONDE INC.
REGISTRATION NO. F-2321

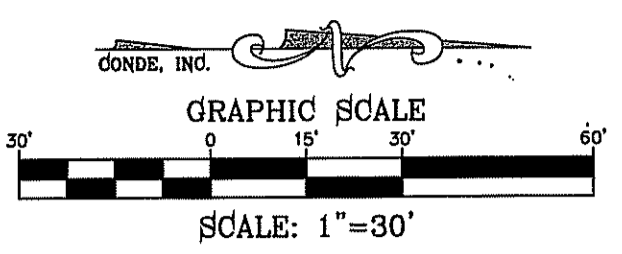
SHEET TITLE
STREET PLAN-PROFILE

PP-TIERRA MURCIA ST.
STA: 0+00 TO STA: 7+00

FILE LOCATION S:\Subdivisions\TDE 74 DWG\PP-TIERRA MURCIA PLOTTED ON Thursday, June 08, 2017 2:57:10 PM BY FELIX RODRIGUEZ

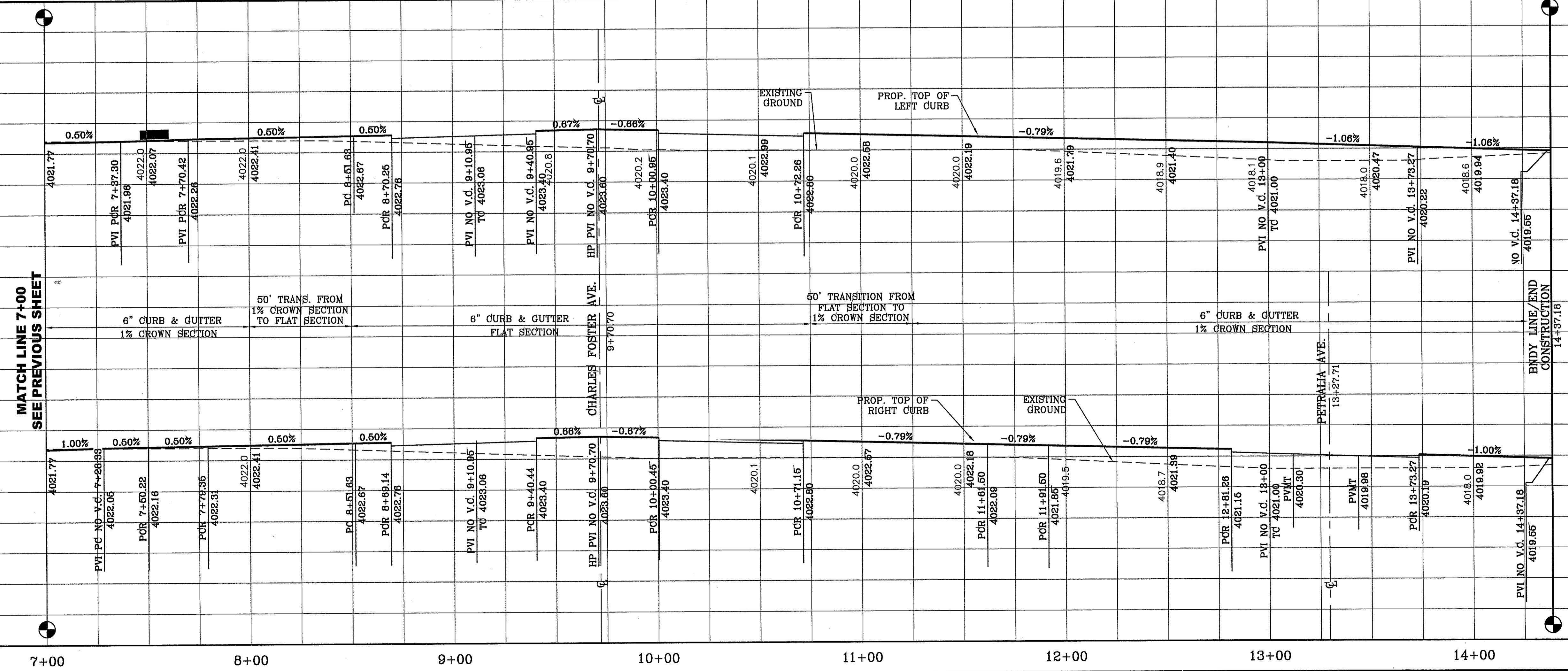
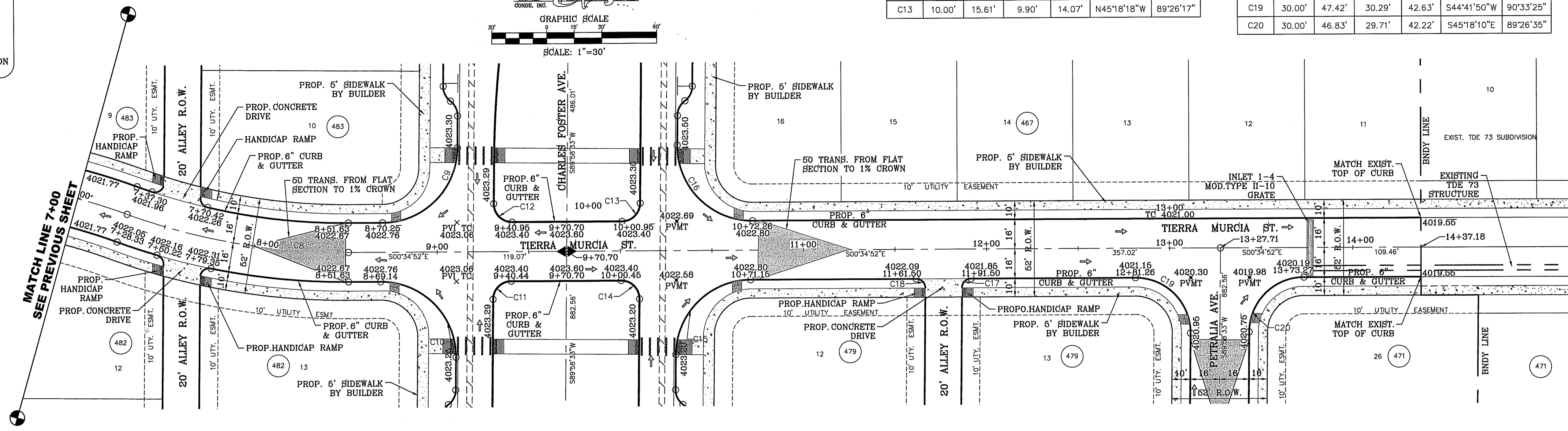
LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C8	350.00'	123.30'	62.30'	122.66'	N9°30'40"E	20°11'05"
C9	41.00'	64.00'	40.60'	57.70'	N45°18'10"W	89°26'35"
C10	41.00'	64.80'	41.40'	58.26'	S44°41'50"W	90°33'25"
C11	10.00'	15.61'	9.90'	14.07'	S45°18'10"E	89°26'35"
C12	10.00'	15.81'	10.10'	14.21'	N44°41'42"E	90°33'43"
C13	10.00'	15.61'	9.90'	14.07'	N45°18'18"W	89°26'17"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C14	10.00'	15.81'	10.10'	14.21'	S44°41'50"W	90°33'25"
C15	41.00'	64.00'	40.60'	57.70'	S45°18'10"E	89°26'35"
C16	41.00'	64.80'	41.40'	58.26'	N44°41'50"E	90°33'25"
C17	5.00'	7.81'	4.95'	7.04'	S45°18'10"E	89°26'35"
C18	5.00'	7.85'	5.00'	7.07'	S44°25'08"W	90°00'00"
C19	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C20	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST.
ELEVATION = 4021.28 NAVD83 DATUM

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41






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

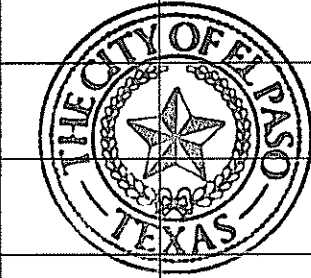
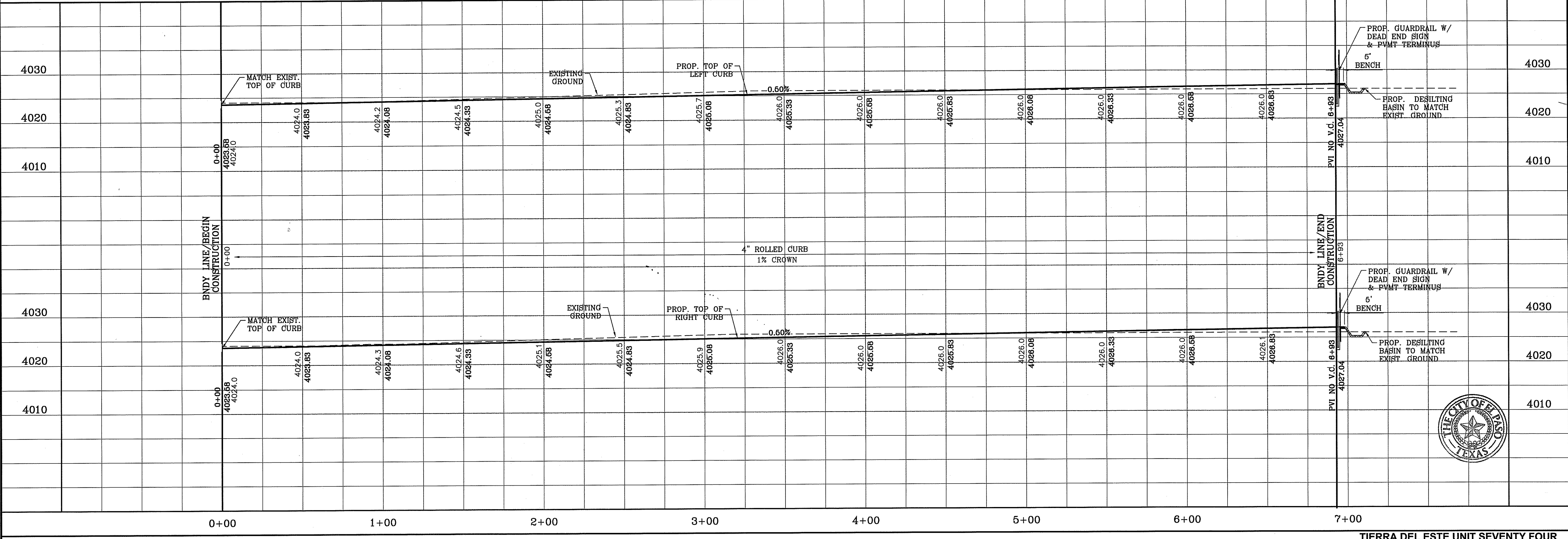
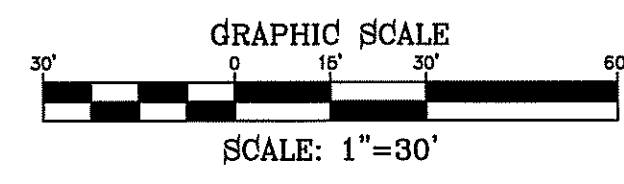
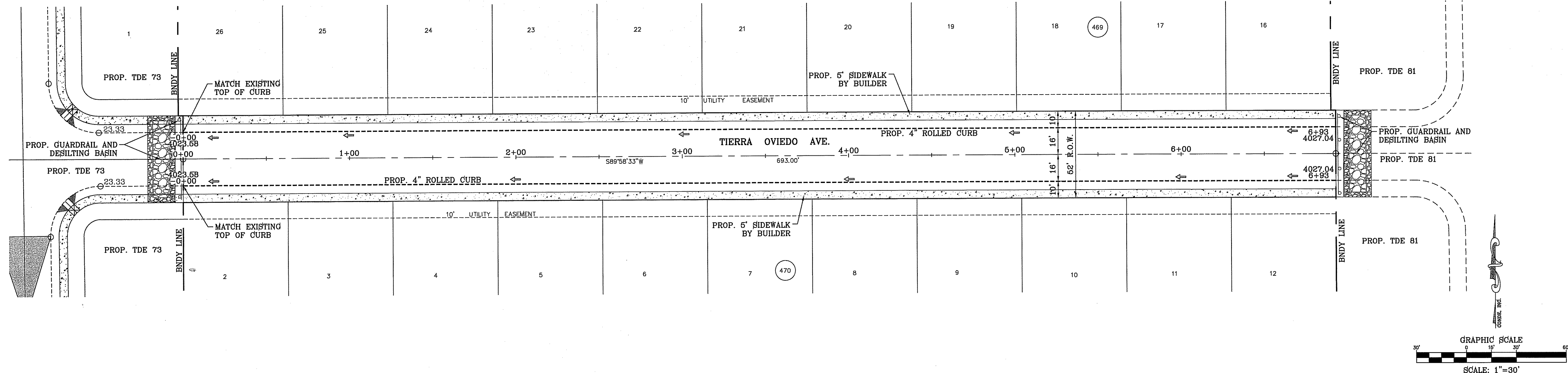
SHEET TITLE
STREET PLAN - PROFILE

TIERRA MURCIA ST.
STA: 7+00 TO
STA: 14+37.18

FILE LOCATION s:_Subdivisions\TDE 74\DWG\VP-TIERRA OVIEDO PLOTTED ON Thursday, June 08, 2017 2:59:46 PM BY FELIX RODRIGUEZ

LEGEND

-  DIRECTIONAL RAMP
-  LOW POINT
-  HIGH POINT
-  FLOW DIRECTION
-  AS-BUILT ELEVATION



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.28 NAVD83 DATUM

DATE	REVISIONS	BY

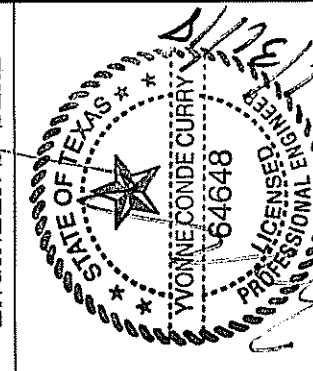
PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR

BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.087± ACRES

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

ENGINEER'S SEAL



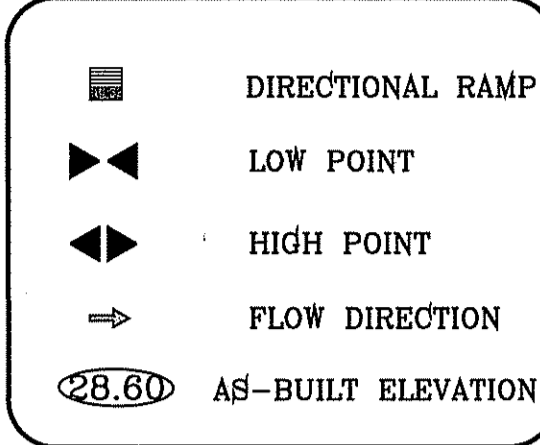
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

CONDE INC.
REGISTRATION NO. F-2321

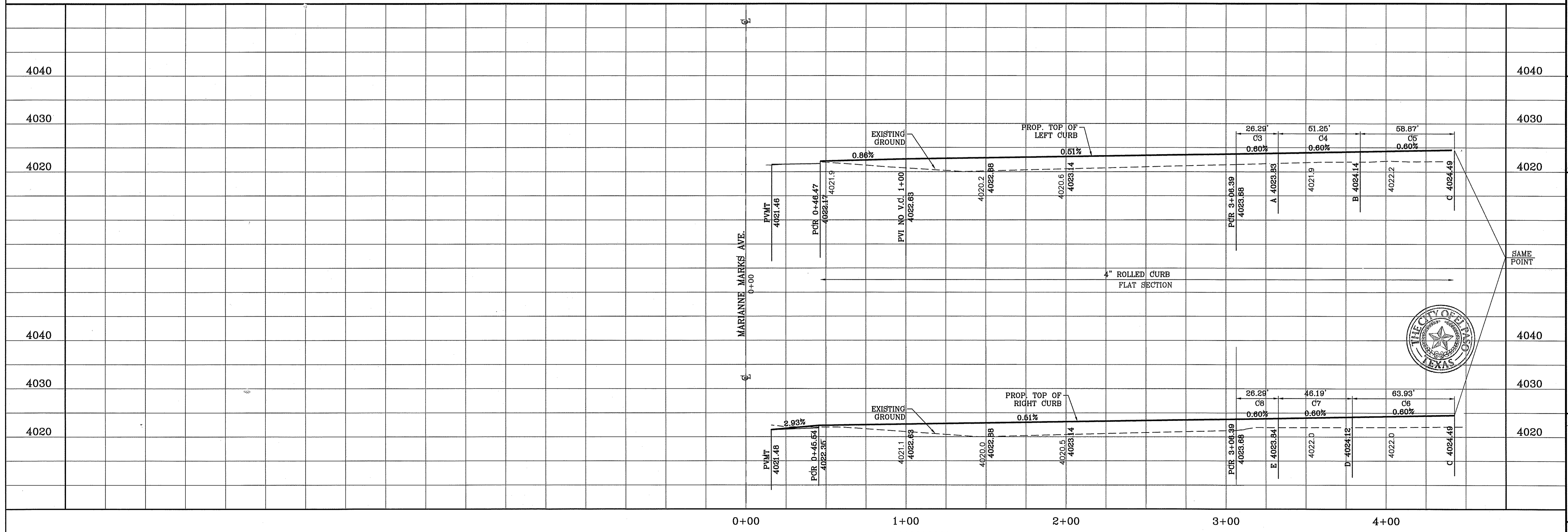
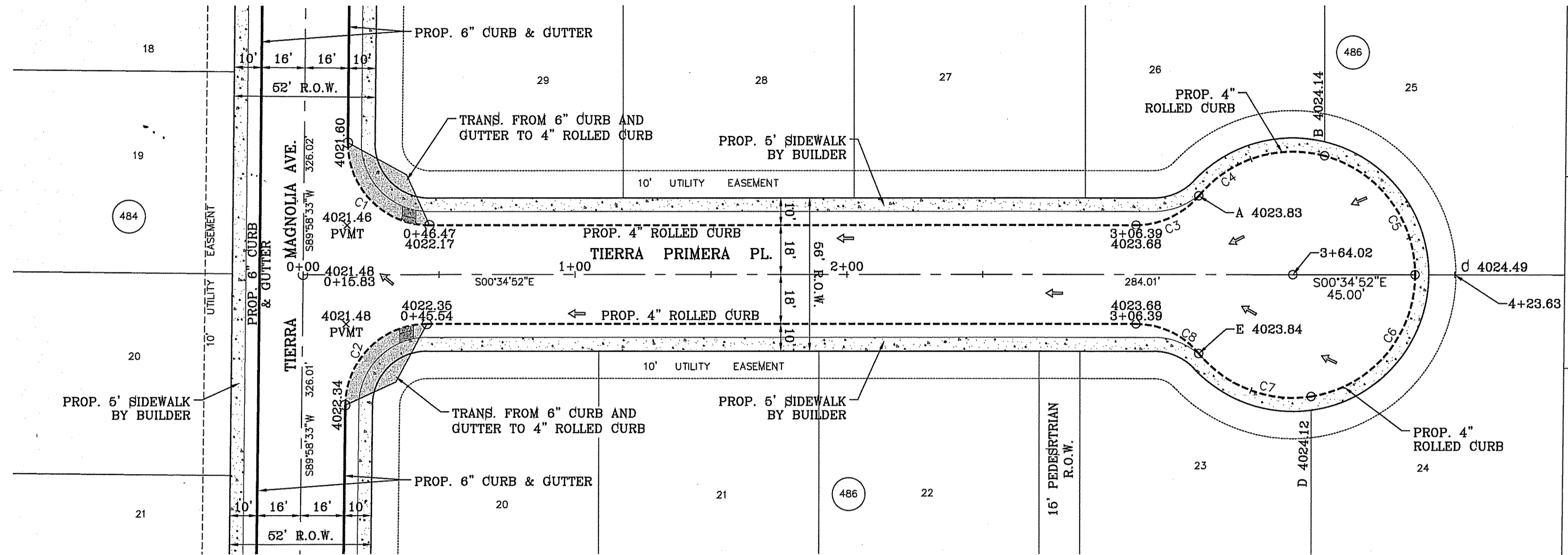
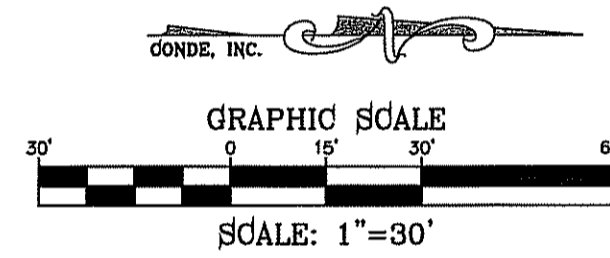
SHEET TITLE
STREET PLAN-PROFILE

TIERRA OVIEDO AVE.
STA: 0+00 TO 7+00

LEGEND



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C2	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C3	30.00'	26.29'	14.06'	25.46'	N25°41'07"W	50°12'29"
C4	45.00'	51.25'	28.81'	48.53'	S18°09'36"E	65°15'31"
C5	45.00'	58.87'	34.50'	54.76'	S51°56'39"W	74°56'58"
C6	45.00'	63.93'	38.70'	58.69'	N49°52'58"W	81°23'49"
C7	45.00'	46.19'	25.36'	44.19'	N20°13'17"E	58°48'41"
C8	30.00'	26.29'	14.06'	25.46'	S24°31'23"W	50°12'29"



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHELSEA, FOSTER AND WATERS ST.	ELEVATION = 4021.26	DATE	BY
		REVISIONS	

PROJECT NAME
TERRA DEL ESTE UNIT SEVENTY FOUR
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.097± ACRES

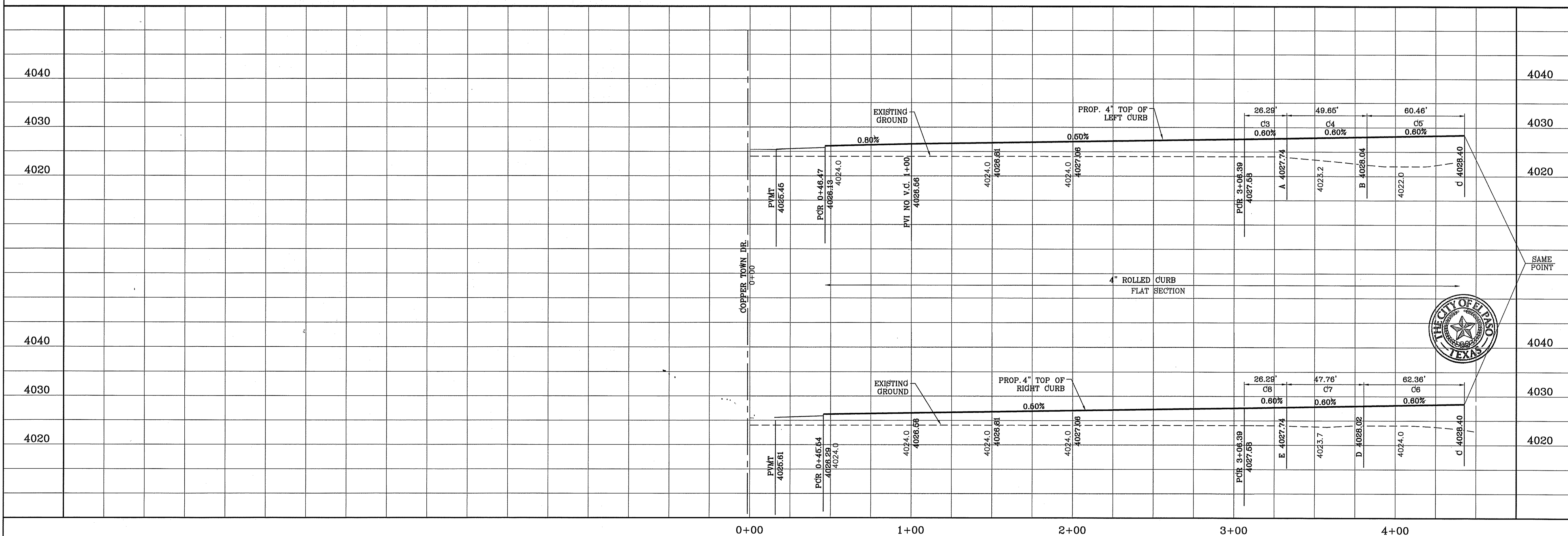
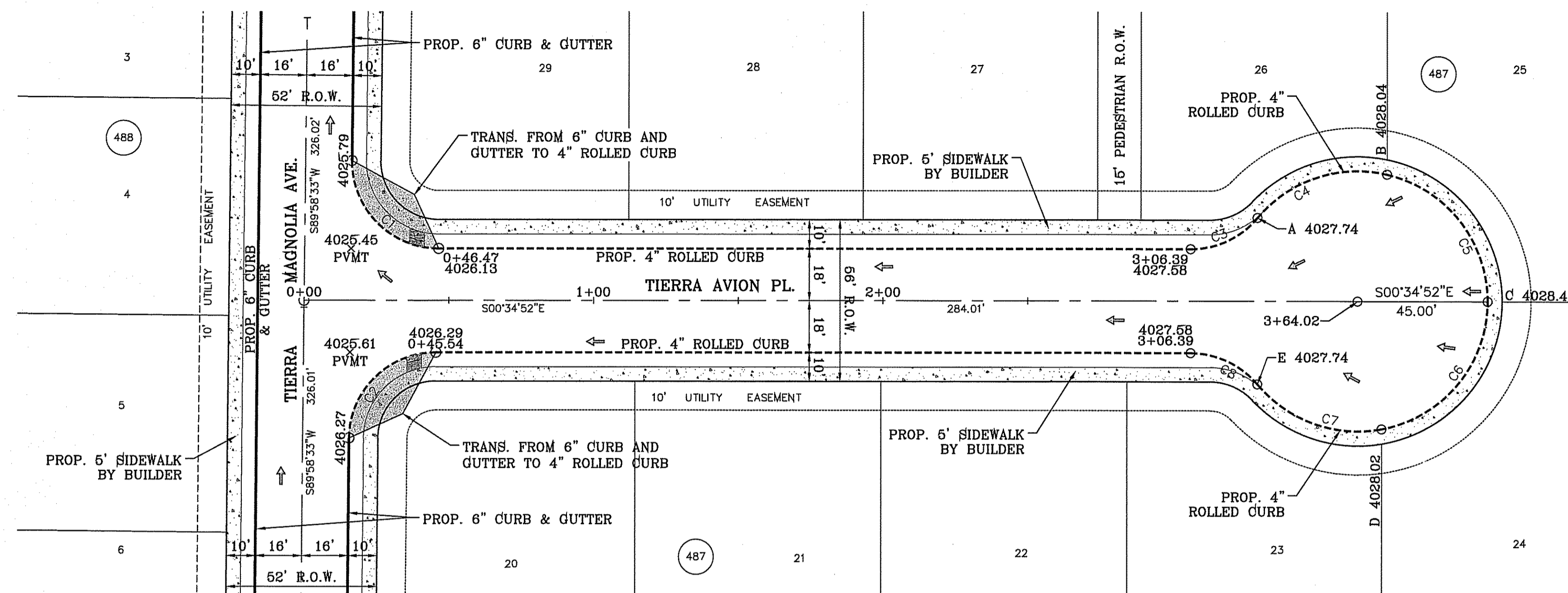
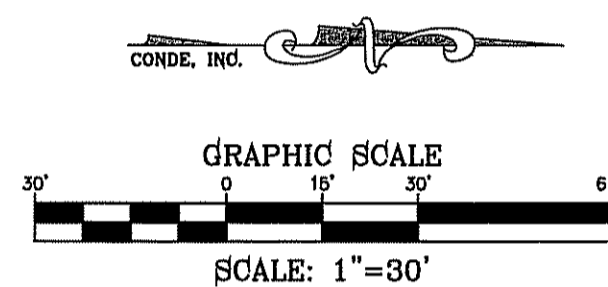
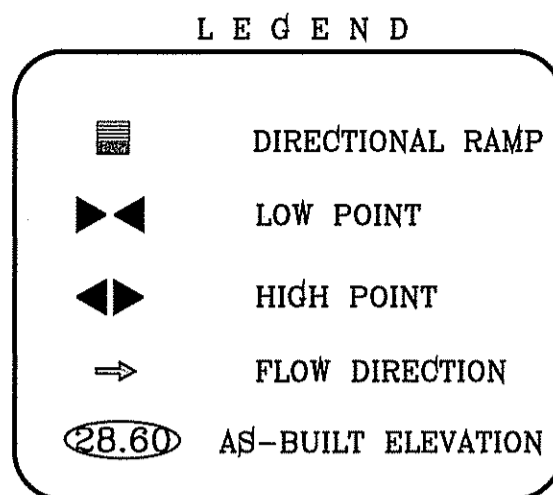
SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'
DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

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

TERRA DEL ESTE UNIT SEVENTY FOUR
SHT 28 OF 53

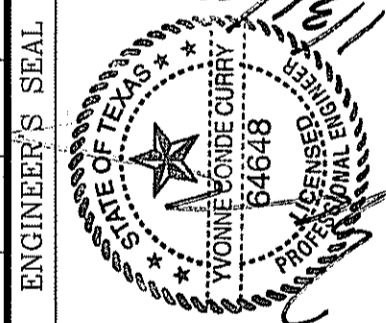
CURVE TABLE					
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C1	30.00'	47.42'	30.29'	42.63'	N44°41'50"E 90°33'25"
C2	30.00'	46.83'	29.71'	42.22'	S45°18'10"E 89°26'35"
C3	30.00'	26.29'	14.06'	25.46'	N25°41'07"W 50°12'29"
C4	45.00'	49.65'	27.70'	47.17'	S19°10'42"E 63°13'19"
C5	45.00'	60.46'	35.79'	56.02'	S50°55'33"W 76°59'10"
C6	45.00'	62.36'	37.36'	57.49'	N50°53'04"W 79°23'36"
C7	45.00'	47.76'	26.41'	45.55'	N19°13'11"E 60°48'53"
C8	30.00'	26.29'	14.06'	25.46'	S24°31'23"W 50°12'29"



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST.
ELEVATION = 4021.28NAVD88 DATUM

PROJECT NAME
TERRA DEL ESTE UNIT SEVENTY FOUR
BEING PART OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS, CONTAINING: 80.0374 ACRES

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'
DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 719-41



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



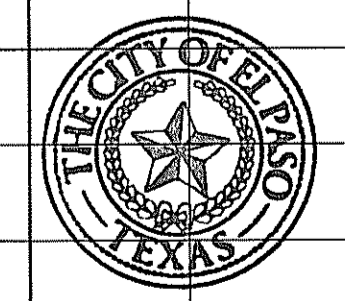
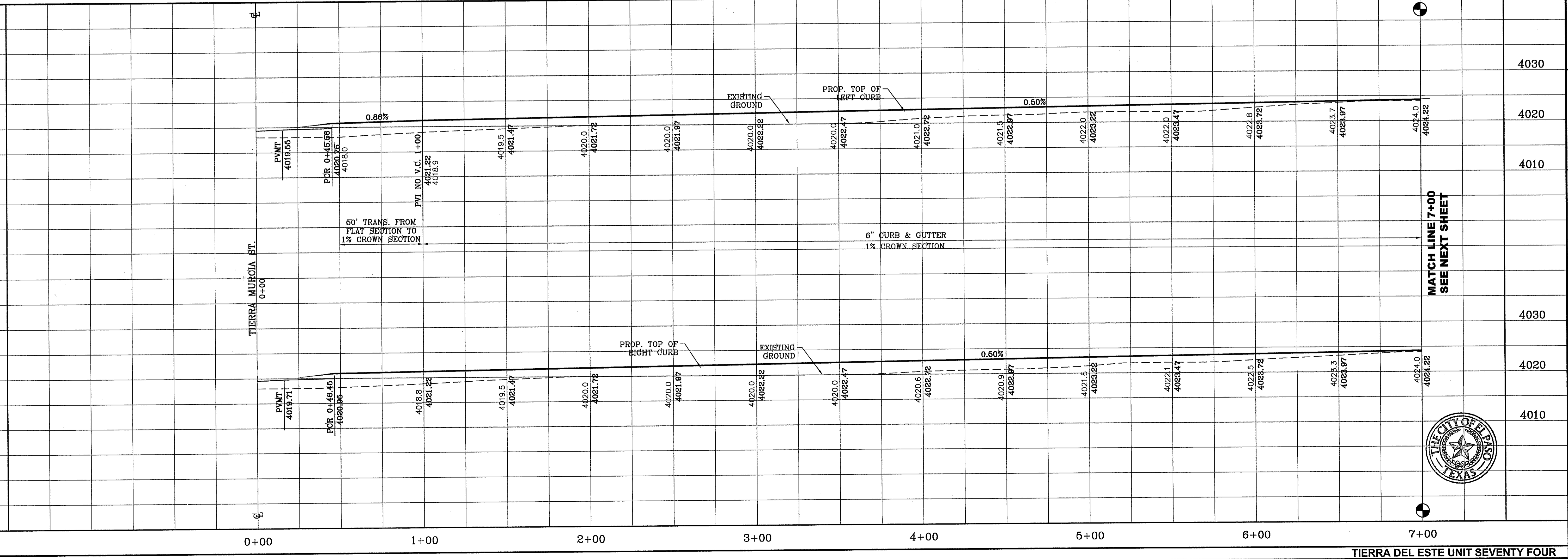
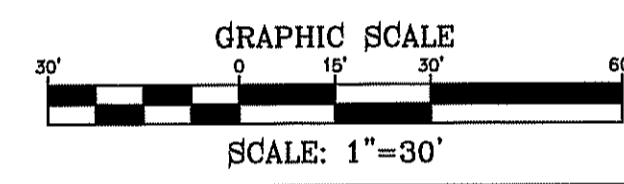
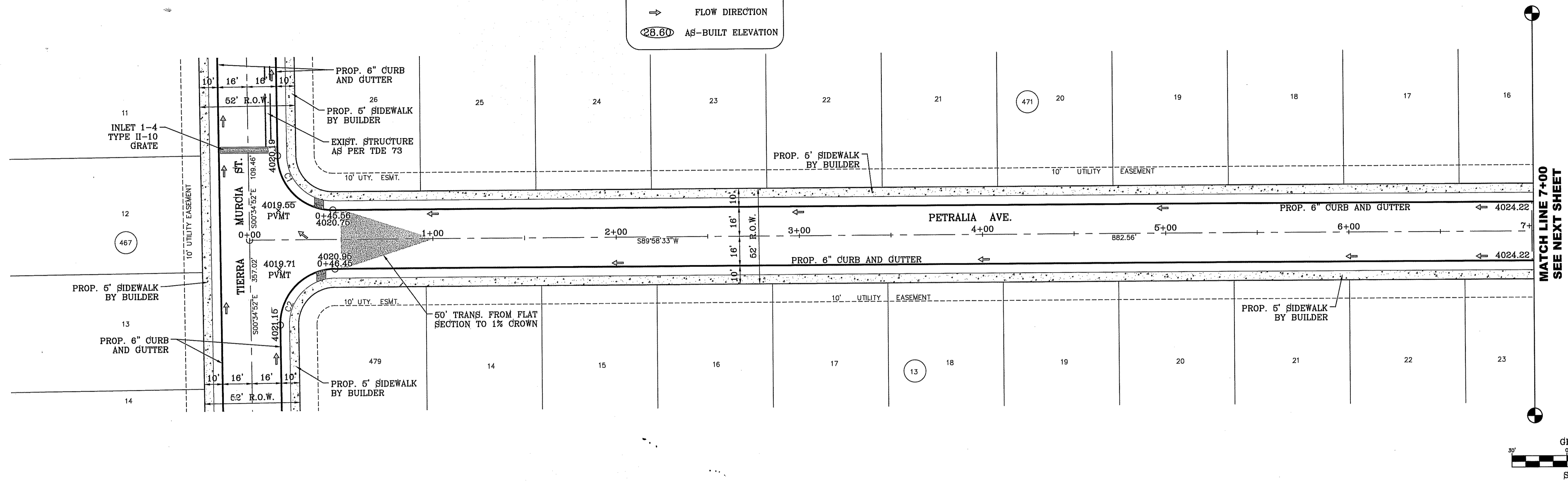
SHEET TITLE
TERRA AVION PL.
STREET
PLAN-PROFILE
STA: 0+00 TO
STA: 4+00

FILE LOCATION S:_Subdivisions\TDE 74\DWG\PP-PETRALIA PLOTTED ON Thursday, June 08, 2017 3:10:16 PM BY FELIX RODRIGUEZ

LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C2	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.28 NAVD83 DATUM

DATE	REVISIONS	BY

TIERRA DEL ESTE UNIT SEVENTY FOUR
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

SCALE
 HORIZ: 1" = 30'
 VERT: 1" = 10'

DATE: MARCH 2016
 DESIGN BY: Y.C.
 INITIATED BY: F.R.
 CHECKED BY: Y.C.
 JOB NO.: 713-41

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

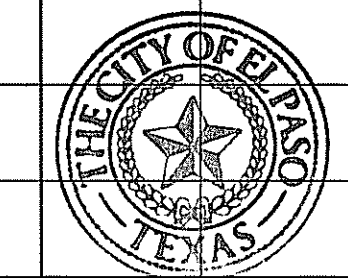
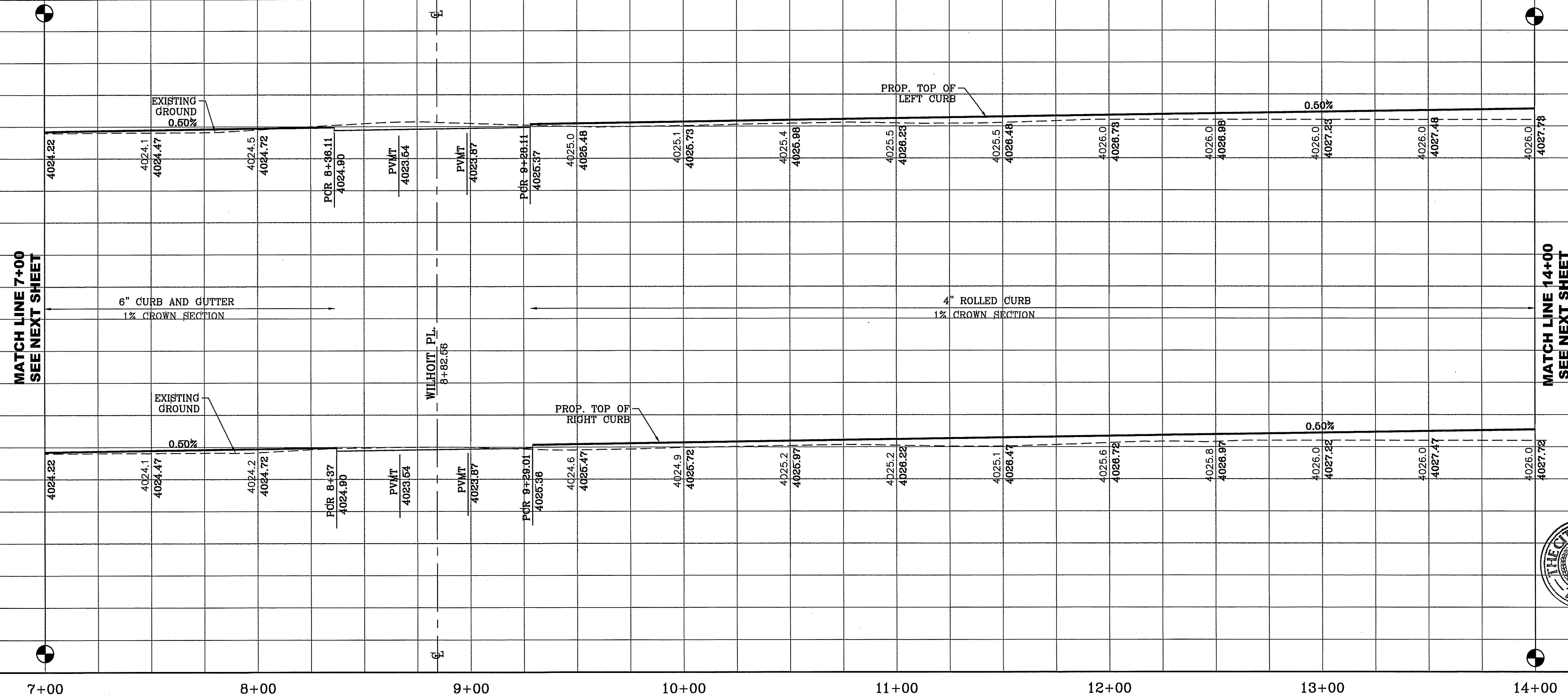
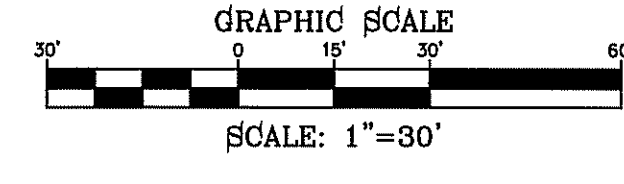
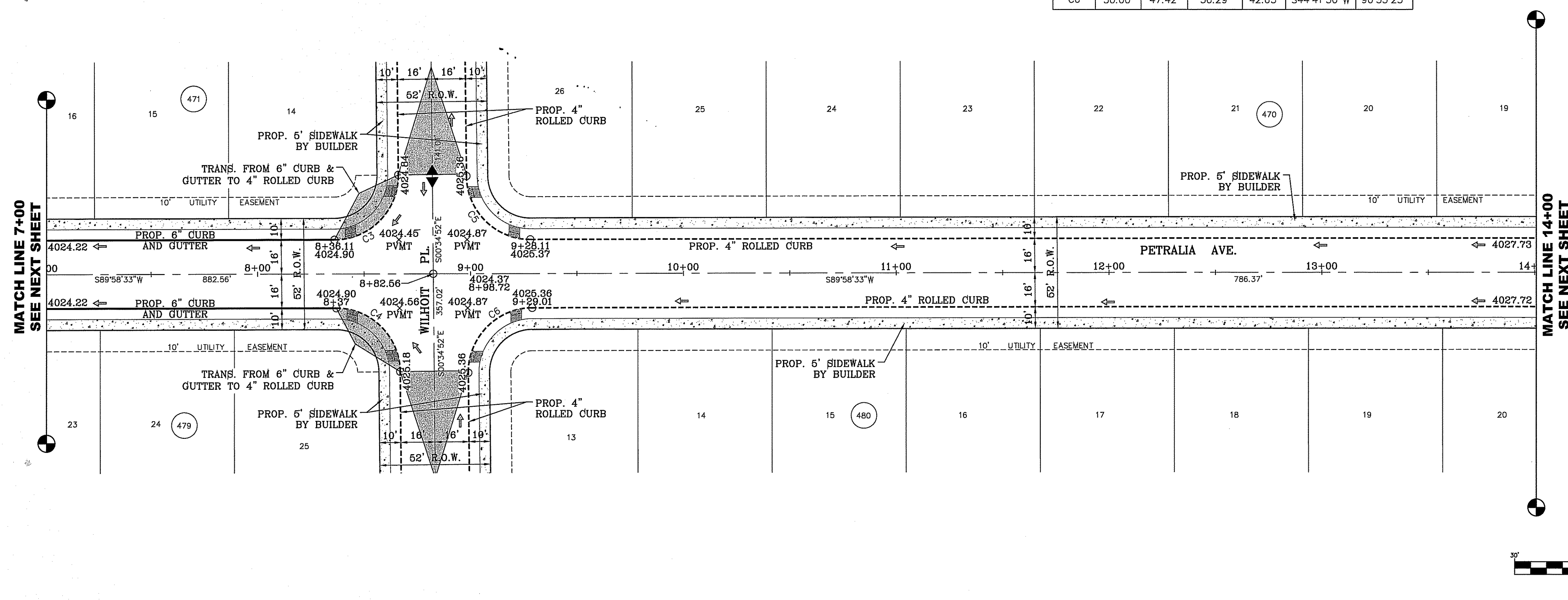
SHEET TITLE
STREET PLAN-PROFILE
PETRALIA AVE.
 STA: 0+00 TO STA: 7+00

FILE LOCATION: B:\Subdivisions\74\DWG\PP-PETRALIA PLOTTED ON Thursday, June 08, 2017 3:10:54 PM BY FELIX RODRIGUEZ

LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C3	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C4	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"
C5	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C6	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"



BENCHMARK
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
 CHARLES FOSTER PL. AND JOHN HAYES ST.
 ELEVATION = 4021.28NAVD88 DATUM

DATE _____ REVISIONS _____ BY _____

PROJECT NAME
 TIERRA DEL ESTE UNIT
 SEVENTY FOUR

BEING PORTION OF SECTION 48, BLOCK 79,
 20 PARCELS AND EASEMENTS, TRACT 1451
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 80.037± ACRES

SCALE
 HORIZ: 1" = 30'
 VERT: 1" = 10'

DATE: MARCH 2016
 DESIGN BY: Y.C.
 INITIATED BY: F.R.
 CHECKED BY: Y.C.
 JOB NO.: 713-41

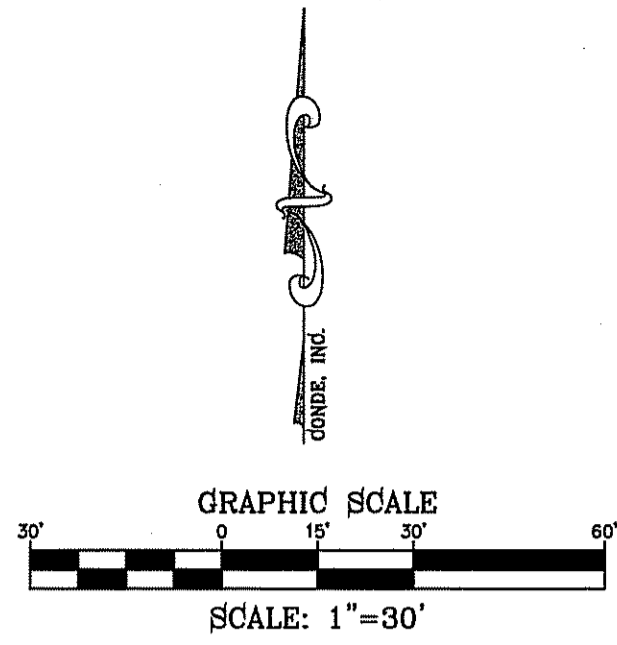
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

CONDE INC.
 REGISTRATION No. P-2321

SHEET TITLE
 STREET
 PLAN-PROFILE

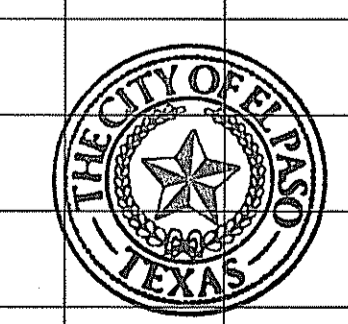
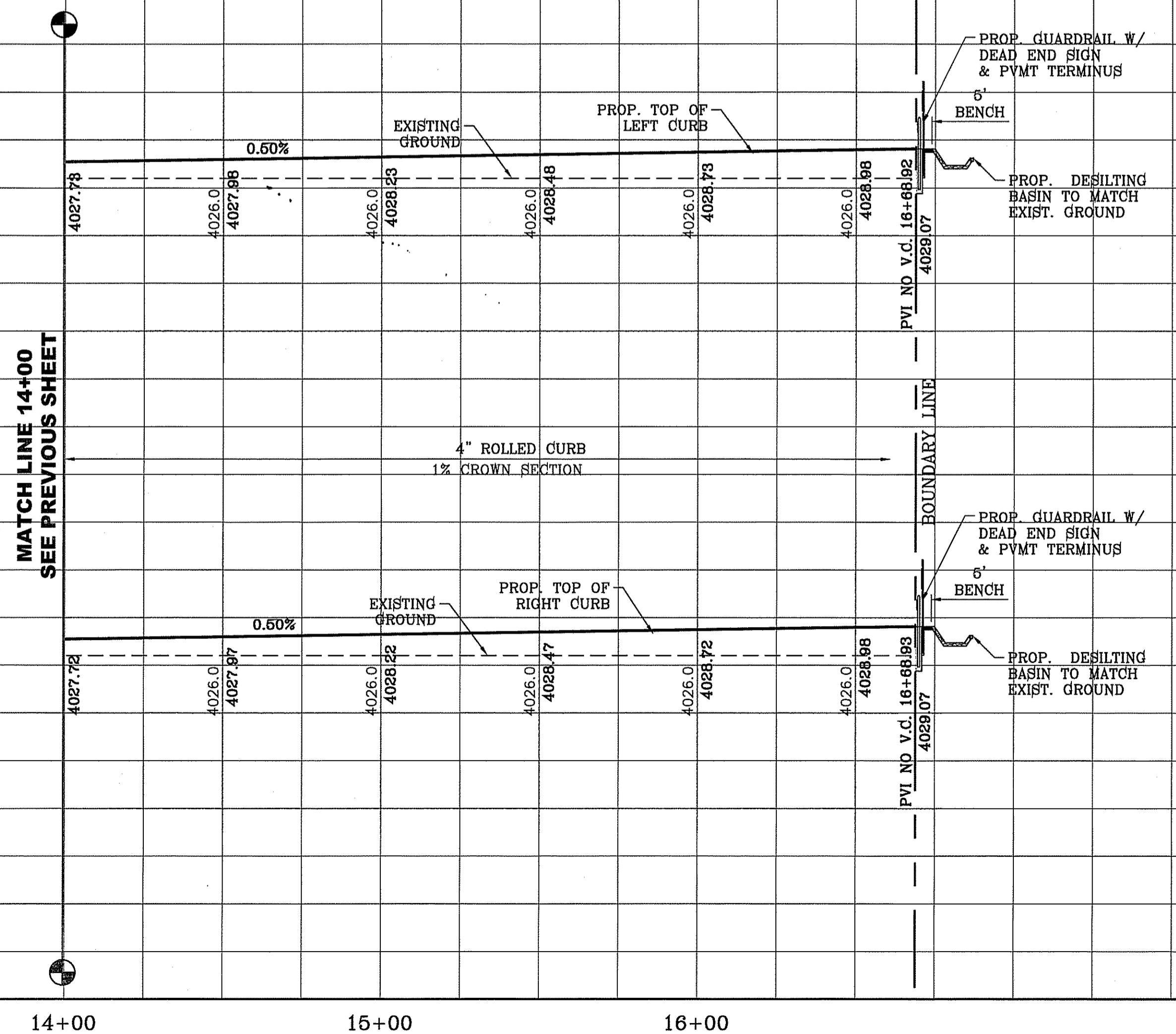
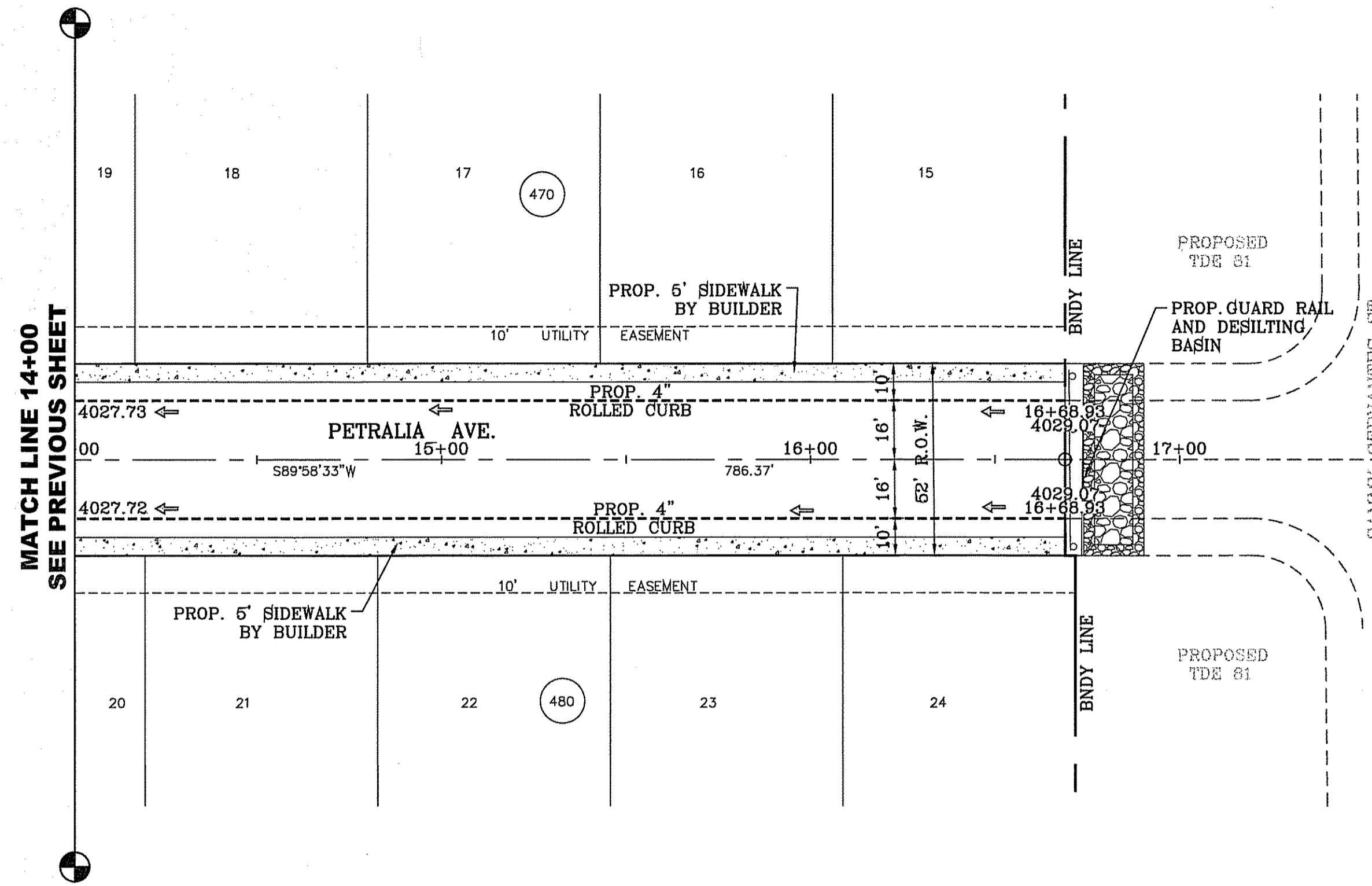
PETRALIA AVE.
 STA: 7+00 TO
 STA: 14+00

FILE LOCATION: E:\Subdivisions\74\DWG\PP-PETRALIA PLOTTED ON Thursday, June 08, 2017 3:11:30 PM BY FELIX RODRIGUEZ



LEGEND

	DIRECTIONAL RAMP
	LOW POINT
	HIGH POINT
	FLOW DIRECTION
	AS-BUILT ELEVATION



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST.	ELEVATION = 4021.26NAVD86 DATUM
DATE	REVISIONS	BY

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR
 BEING PORTION OF SECTION 48, BLOCK 70, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS, CONTAINING: 80.037± ACRES

SCALE
 HORIZ: 1" = 30'
 VERT: 1" = 10'

ENGINEER'S SEAL

DATE: MARCH 2016
 DESIGN BY: Y.C.
 INITIATED BY: F.R.
 CHECKED BY: Y.C.
 JOB NO.: 719-41

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

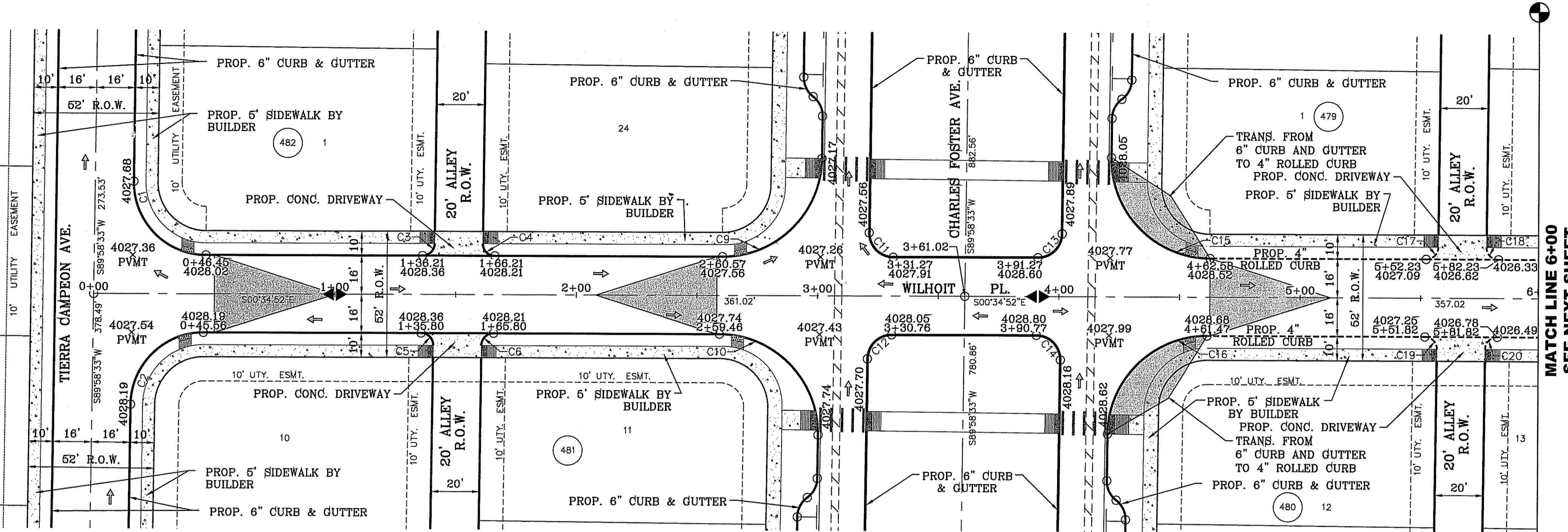
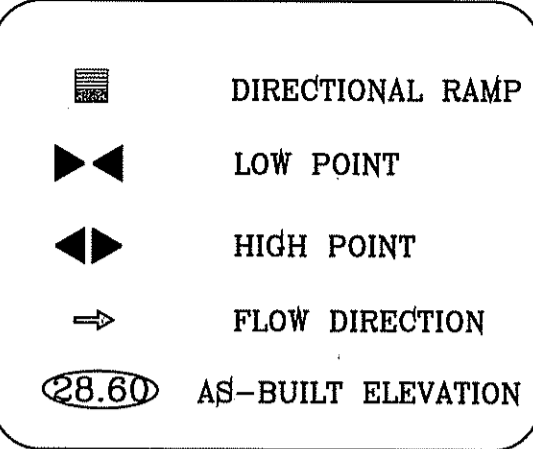
CONDE INC.
 REGISTRATION NO. F-2321

SHEET TITLE
 STREET
 PLAN-PROFILE

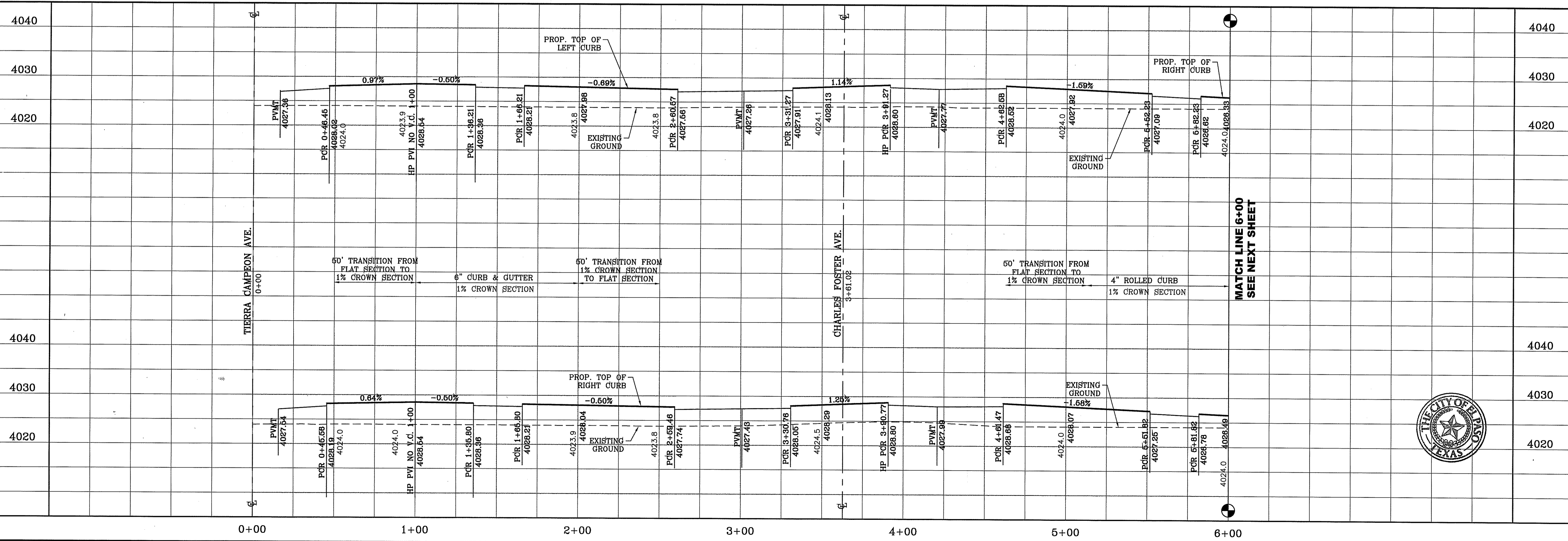
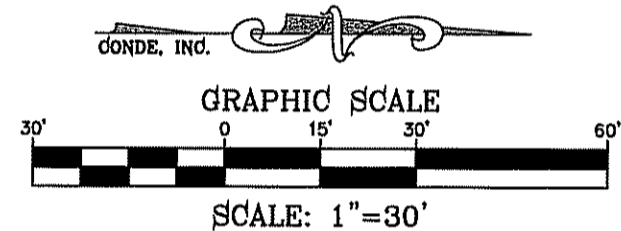
PETRALIA AVE.
 STA: 14+00 TO
 STA: END

FILE LOCATION S:\Subdivisions\TDE 74\DWG\PP-WILHOIT PLOTTED ON Thursday, June 08, 2017 3:15:36 PM BY FELIX RODRIGUEZ

LEGEND



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C2	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"
C3	5.00'	7.81'	4.95'	7.04'	N45°18'10"W	89°26'35"
C4	5.00'	7.85'	5.00'	7.07'	N44°25'08"E	90°00'00"
C5	5.00'	7.85'	5.00'	7.07'	S44°25'08"W	90°00'00"
C6	5.00'	7.81'	4.95'	7.04'	S45°18'10"E	89°26'35"
C9	41.00'	64.00'	40.60'	57.70'	N45°18'10"W	89°26'35"
C10	41.00'	64.80'	41.40'	58.26'	S44°41'50"W	90°33'25"
C11	10.00'	15.81'	10.10'	14.21'	N44°41'50"E	90°33'25"
C12	10.00'	15.61'	9.90'	14.07'	S45°18'10"E	89°26'35"
C13	10.00'	15.61'	9.90'	14.07'	N45°18'10"W	89°26'35"
C14	10.00'	15.81'	10.10'	14.21'	S44°41'50"W	90°33'25"
C15	41.00'	64.80'	41.40'	58.26'	N44°41'50"E	90°33'25"
C16	41.00'	64.00'	40.60'	57.70'	S45°18'10"E	89°26'35"
C17	5.00'	7.81'	4.95'	7.04'	N45°18'10"W	89°26'35"
C18	5.00'	7.85'	5.00'	7.07'	S44°25'08"W	90°00'00"
C19	5.00'	7.85'	5.00'	7.07'	S44°25'08"W	90°00'00"
C20	5.00'	7.81'	4.95'	7.04'	S45°18'10"E	89°26'35"



MATCH LINE 6+00
SEE NEXT SHEET

MATCH LINE 6+00
SEE NEXT SHEET



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
CHARLES FOSTER PL. AND JOHN HAYES ST.
ELEVATION = 4021.28NAVD83 DATUM

PROJECT NAME
TERRA DEL ESTE UNIT SEVENTY FOUR

BRING PORTION OF SECTION 48, BLOCK 79
TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: .80037± ACRES

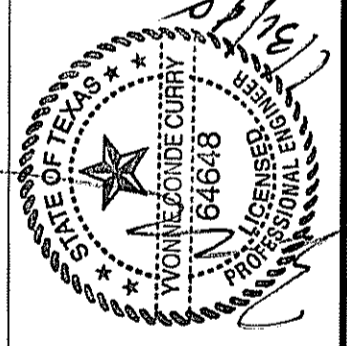
REVISIONS

DATE

BY

SCALE
HORIZ. 1" = 30'
VERT. 1" = 10'

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41



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

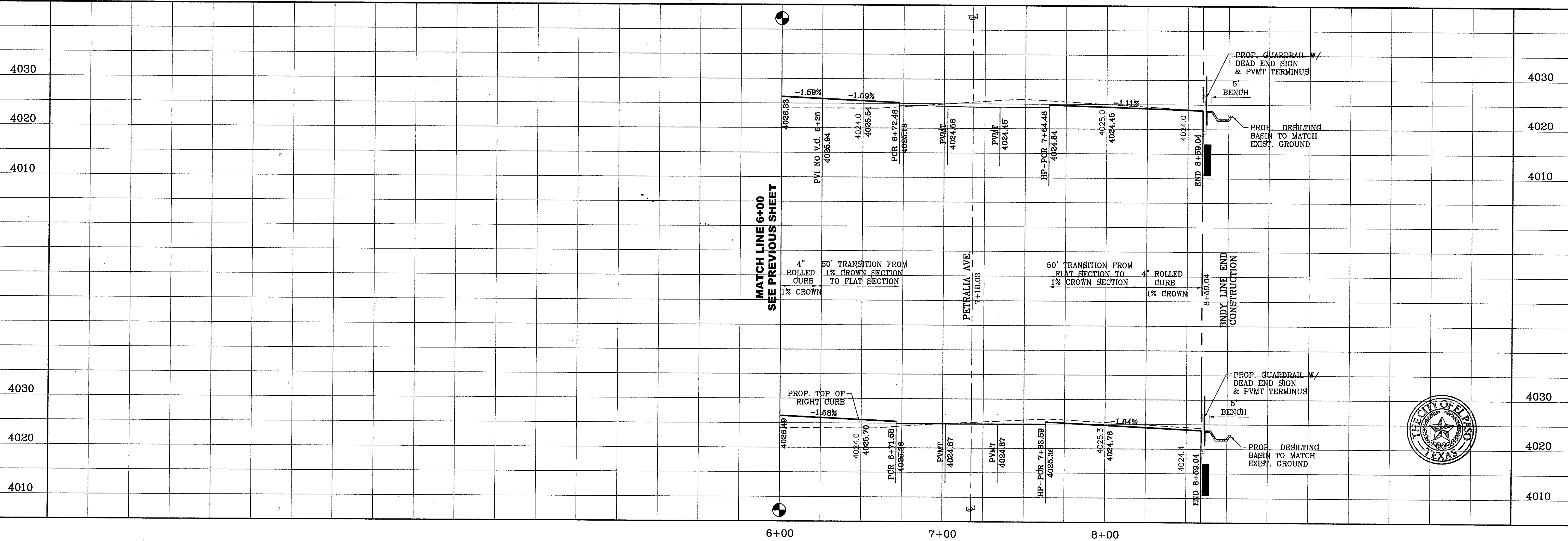
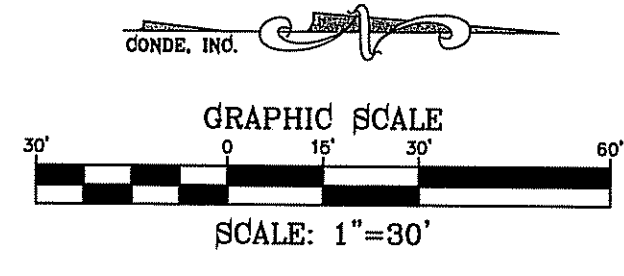
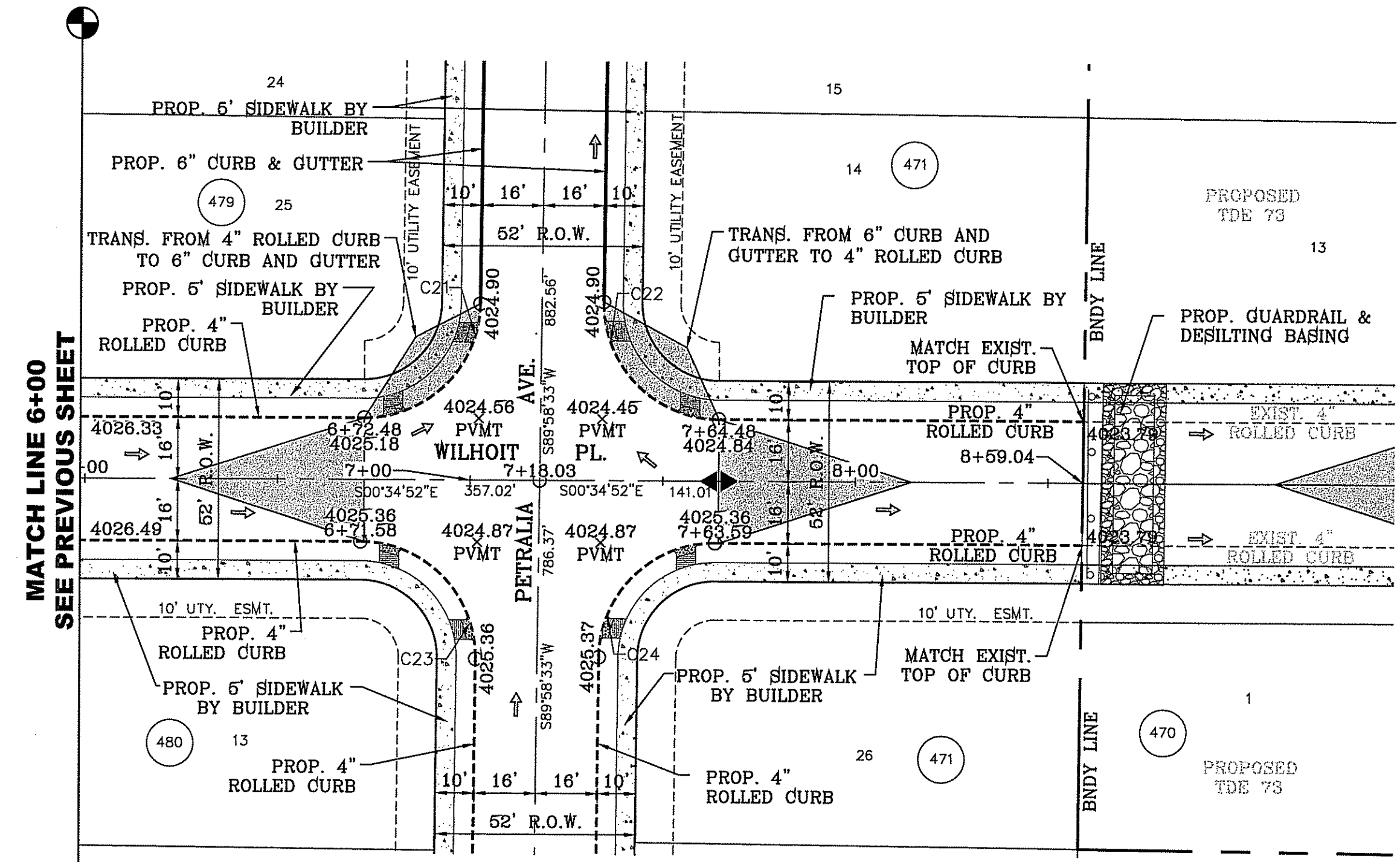
WILHOIT PL.
STA: 0+00 TO
STA: 6+00

FILE LOCATION S:\Subdivisions\TDE 74\DWG\PP-WILHOIT PLOTTED ON Thursday, June 08, 2017 3:16:14 PM BY FELIX RODRIGUEZ

LEGEND

-  DIRECTIONAL RAMP
-  LOW POINT
-  HIGH POINT
-  FLOW DIRECTION
-  AS-BUILT ELEVATION

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C21	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"
C22	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C23	30.00'	47.42'	30.29'	42.63'	S44°41'50"W	90°33'25"
C24	30.00'	46.83'	29.71'	42.22'	S45°18'10"E	89°26'35"



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.28 NAVD83 DATUM

DATE	REVISIONS	BY

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR

BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'

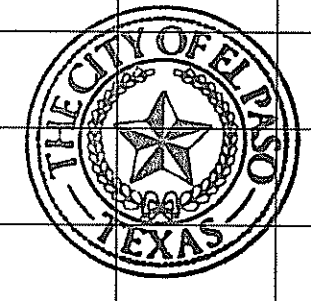
DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

ENGINEER'S SEAL

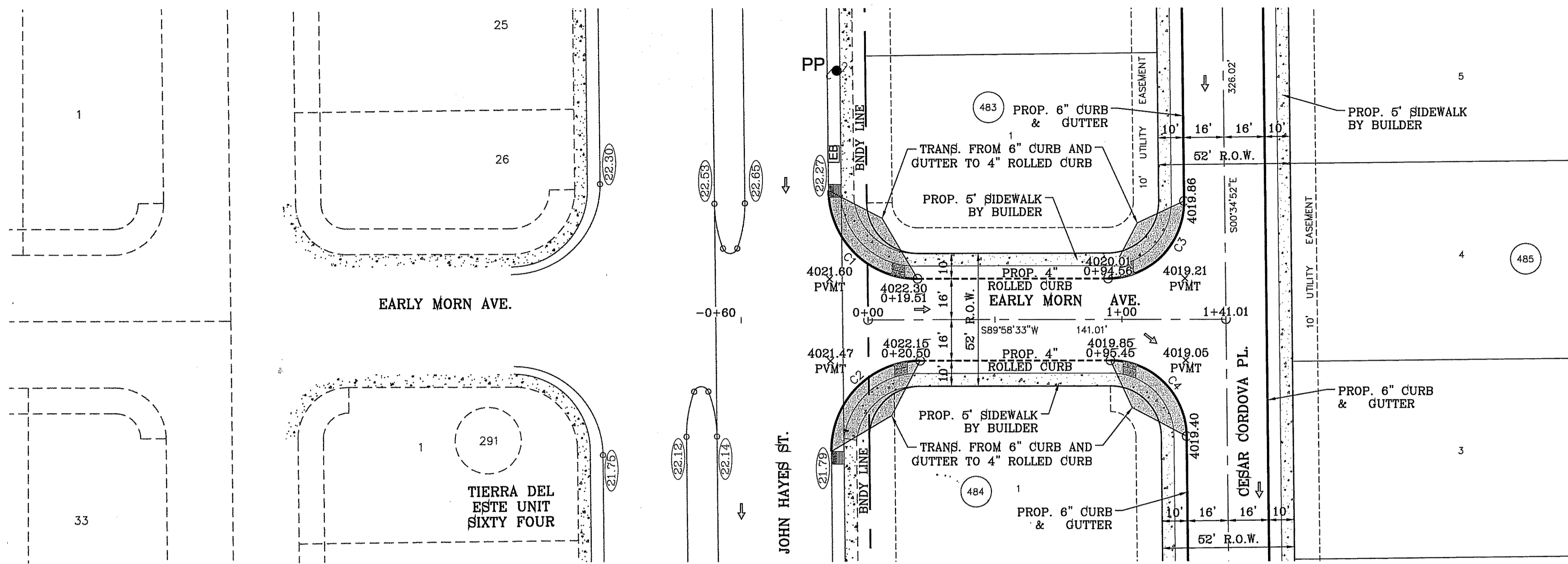
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GFS
6060 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

SHEET TITLE
STREET
PLAN-PROFILE

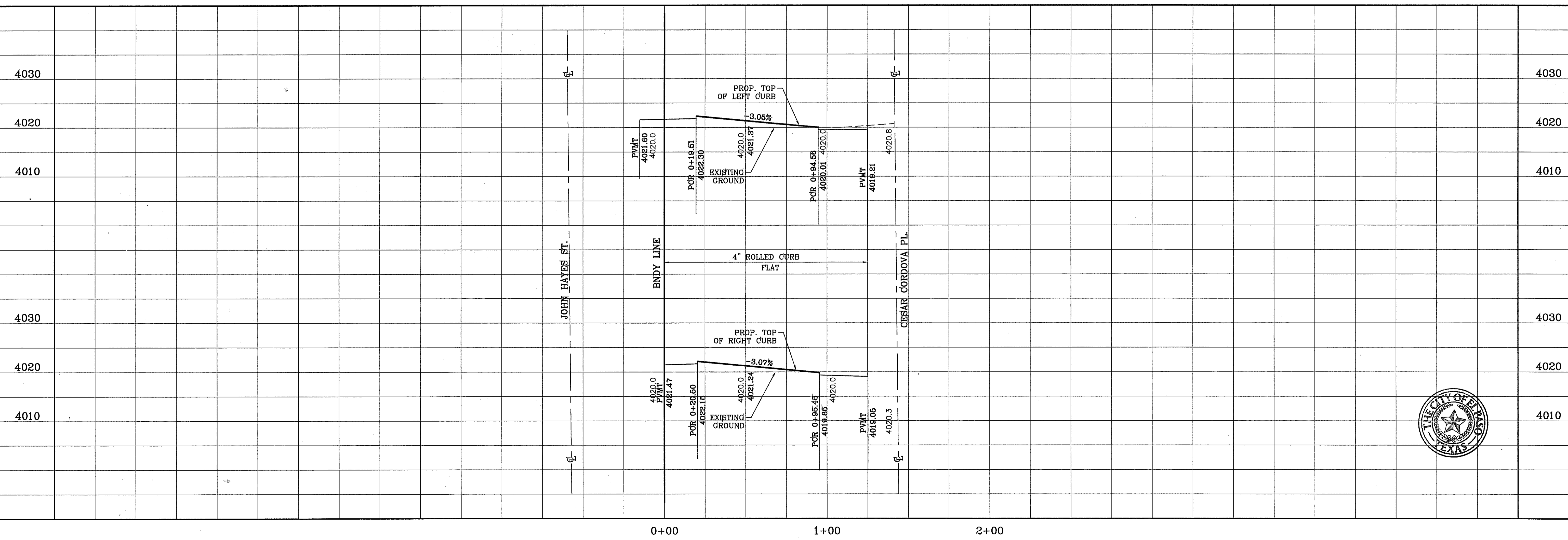
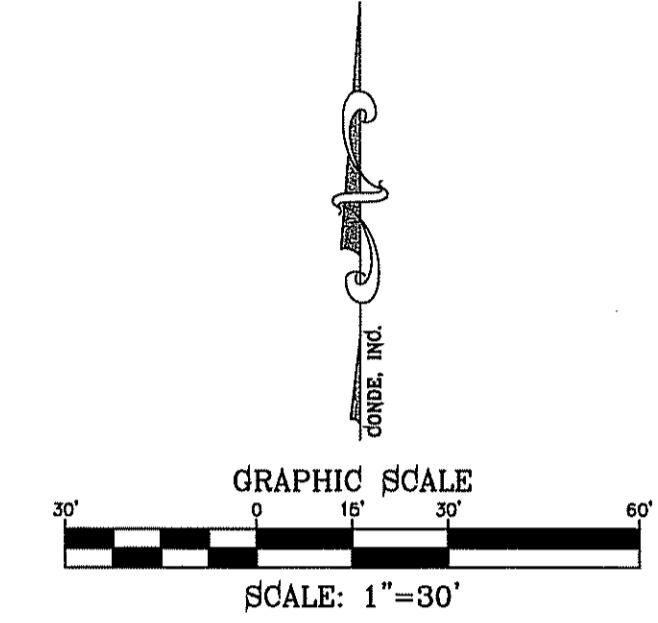
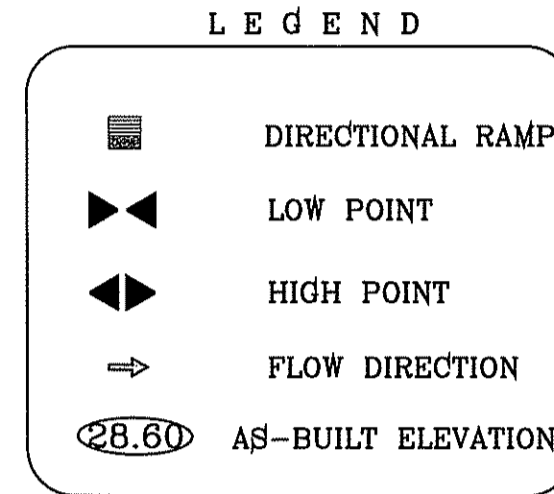
WILHOIT PL.
STA: 6+00 TO
STA: END



FILE LOCATION: S:\Subdivisions\TDE 74\DWG\PP-EARLY MORN PLOTTED ON Thursday, June 08, 2017 3:19:23 PM BY FELIX RODRIGUEZ



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	35.00'	54.64'	34.66'	49.26'	S45°18'10"E	89°26'35"
C2	35.00'	55.32'	35.34'	49.74'	S44°41'50"W	90°33'25"
C3	30.00'	47.42'	30.29'	42.63'	N44°41'50"E	90°33'25"
C4	30.00'	46.83'	29.71'	42.22'	N45°18'10"W	89°26'35"



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.26NAVD88 DATUM

DATE	REVISIONS	BY

PROJECT NAME

TIERRA DEL ESTE UNIT SEVENTY FOUR

BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEY, CITY OF PASADENA, BEING 6.00 ACRES, CITY OF PASADENA, TEXAS CONTAINING: 60.037± ACRES

SCALE

HORIZ: 1" = 30'

VERT: 1" = 10'

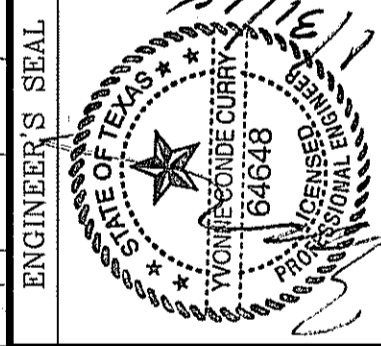
DATE: MARCH 2016

DESIGN BY: Y.C.

INITIATED BY: F.R.

CHECKED BY: Y.C.

JOB NO.: 713-41

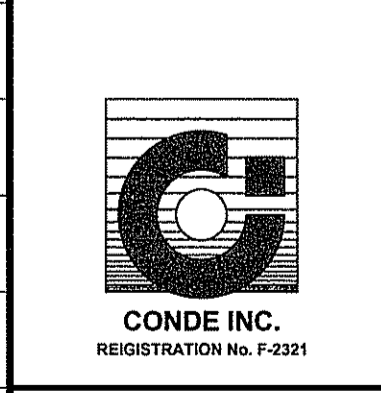


CONDE INC.

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

EARLY MORN AVE.

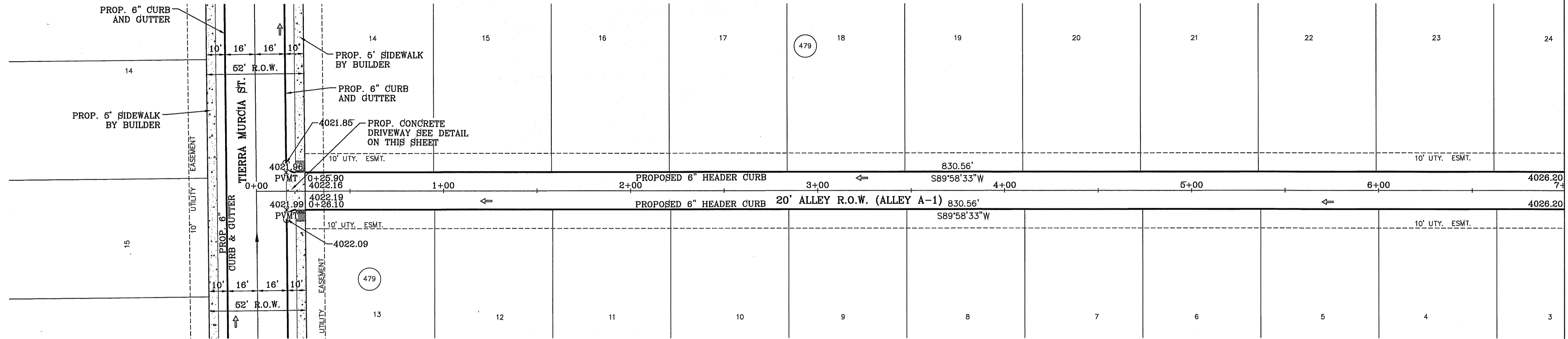
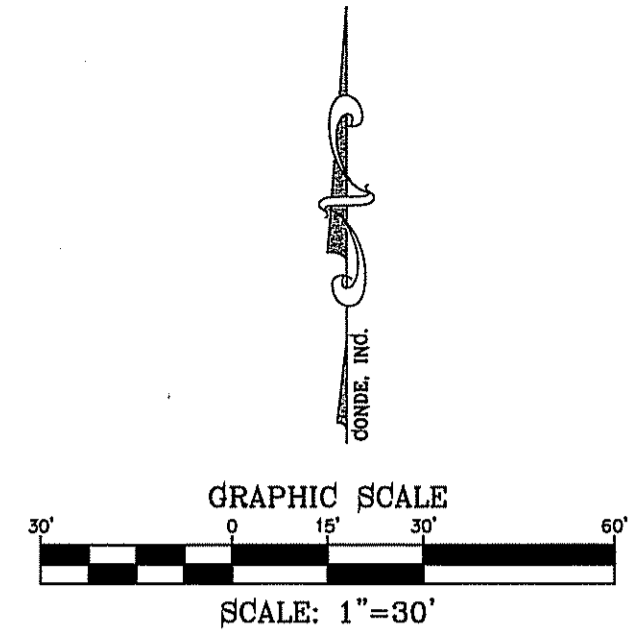
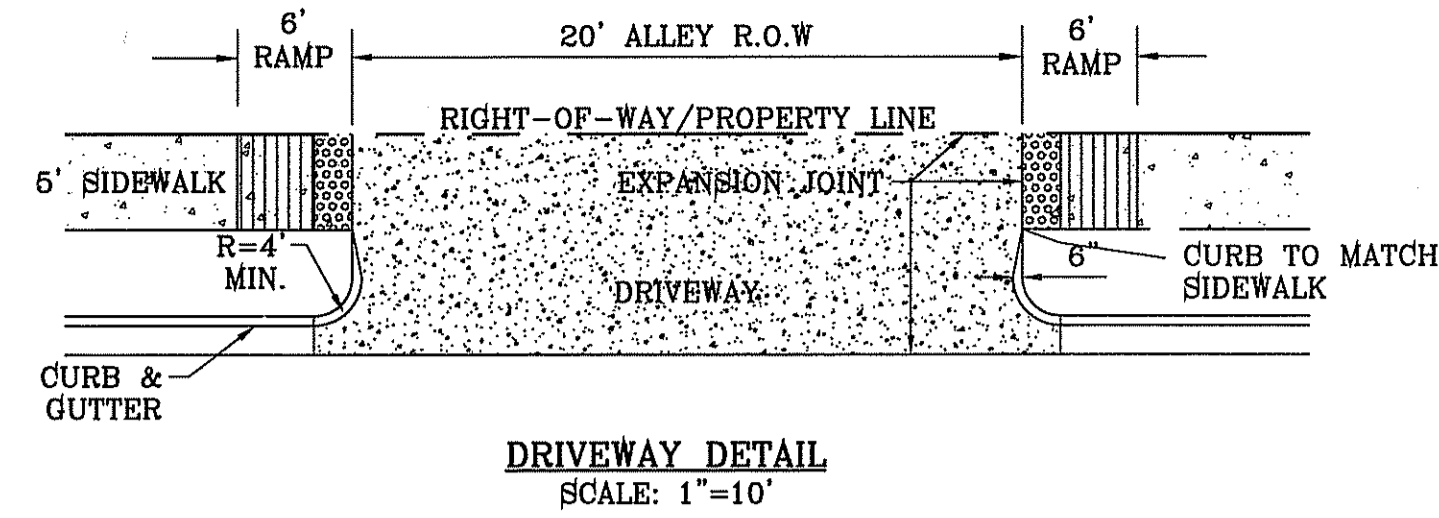
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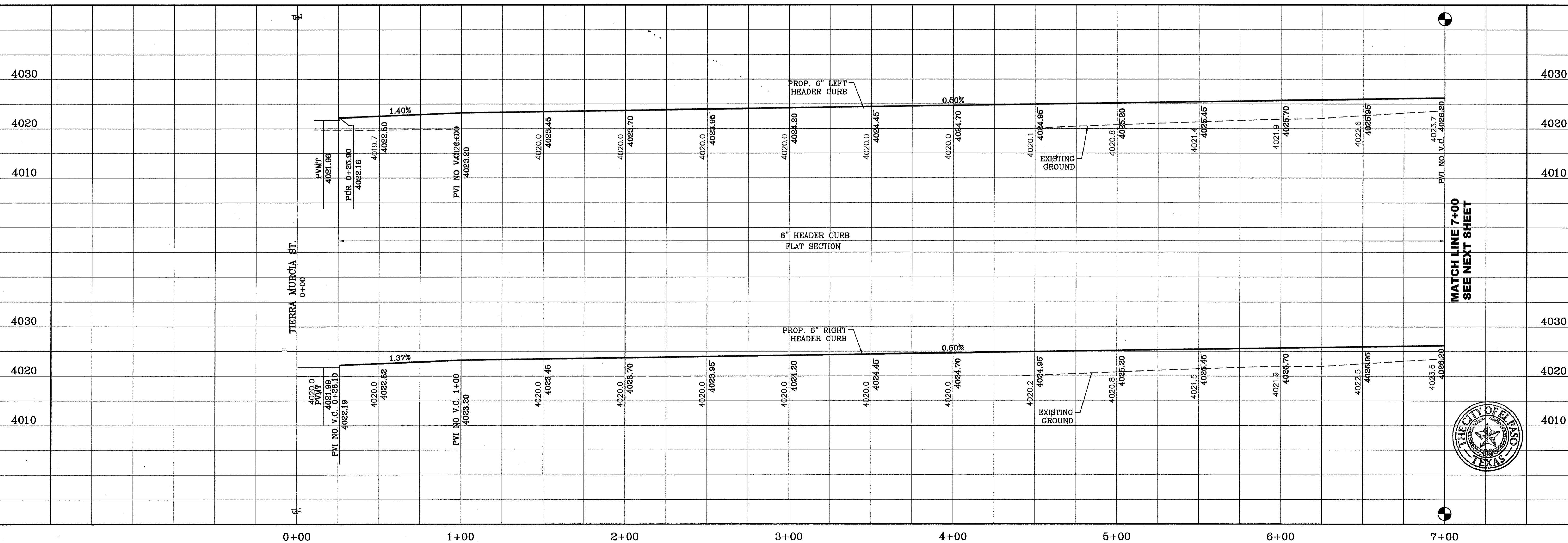
FILE LOCATION S:\Subdivisions\TDE 74\DWG\PP-ALLEY A NORTH PLOTTED ON Thursday, June 08, 2017 3:26:57 PM BY FELIX RODRIGUEZ

LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION



MATCH LINE 7+00
SEE NEXT SHEET



MATCH LINE 7+00
SEE NEXT SHEET



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.26NAD88 DATUM

DATE	REVISIONS	BY

PROJECT NAME

TIERRA DEL ESTE UNIT SEVENTY FOUR

BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.0374 ACRES

ENGINEER'S SEAL

SCA L E
HORIZ: 1" = 30'
VERT: 1" = 10'

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: E.R.
CHECKED BY: Y.C.
JOB NO.: 719-41

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

SHEET TITLE

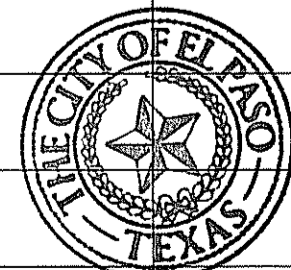
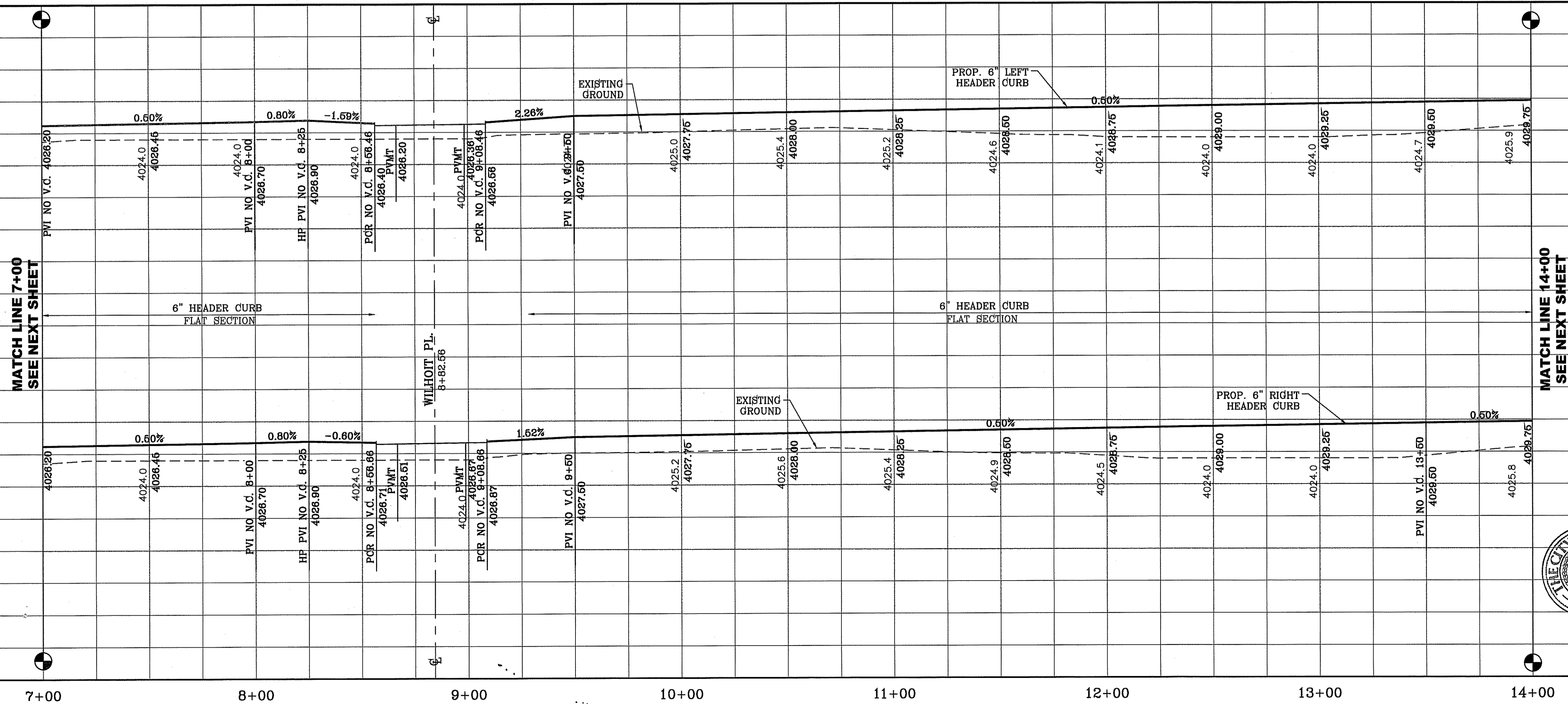
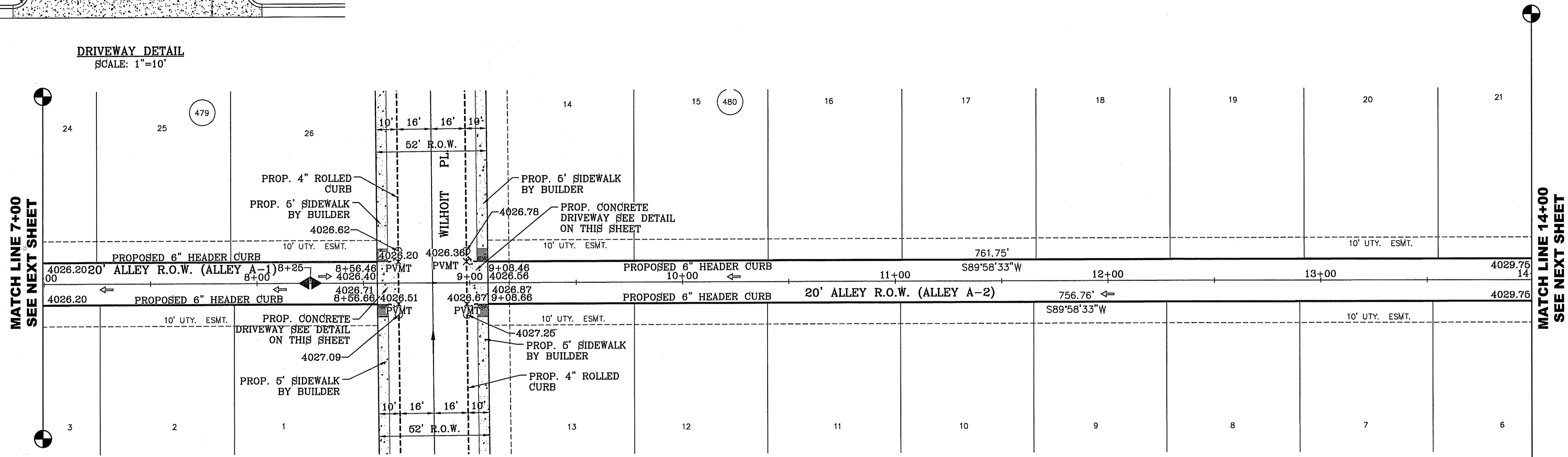
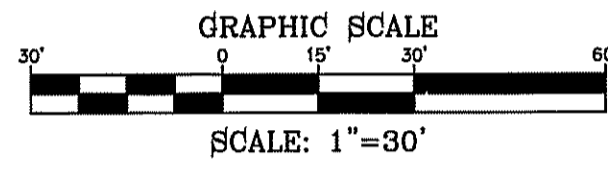
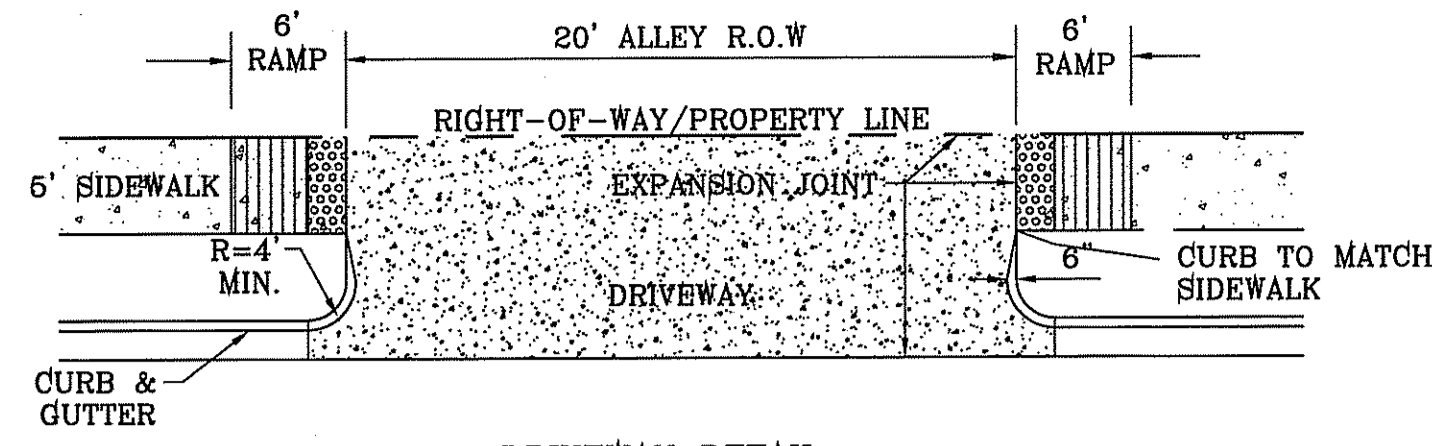
STREET
PLAN-PROFILE

ALLEY A-1
STA: 0+00 TO
STA: 7+00

FILE LOCATION S:_Subdivisions\TDE 74 DWG\PP-ALLEY A NORTH PLOTTED ON Thursday, June 08, 2017 3:27:34 PM BY FELIX RODRIGUEZ

LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.28NAVDB88 DATUM

DATE	REVISIONS	BY

PROJECT NAME
TERRA DEL ESTE UNIT SEVENTY FOUR
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.057± ACRES

SCALE
 HORIZ: 1" = 30'
 VERT: 1" = 10'
 DATE: MARCH 2016
 DESIGN BY: Y.C.
 INITIATED BY: F.R.
 CHECKED BY: Y.C.
 JOB NO.: 713-41

ENGINEER'S SEAL

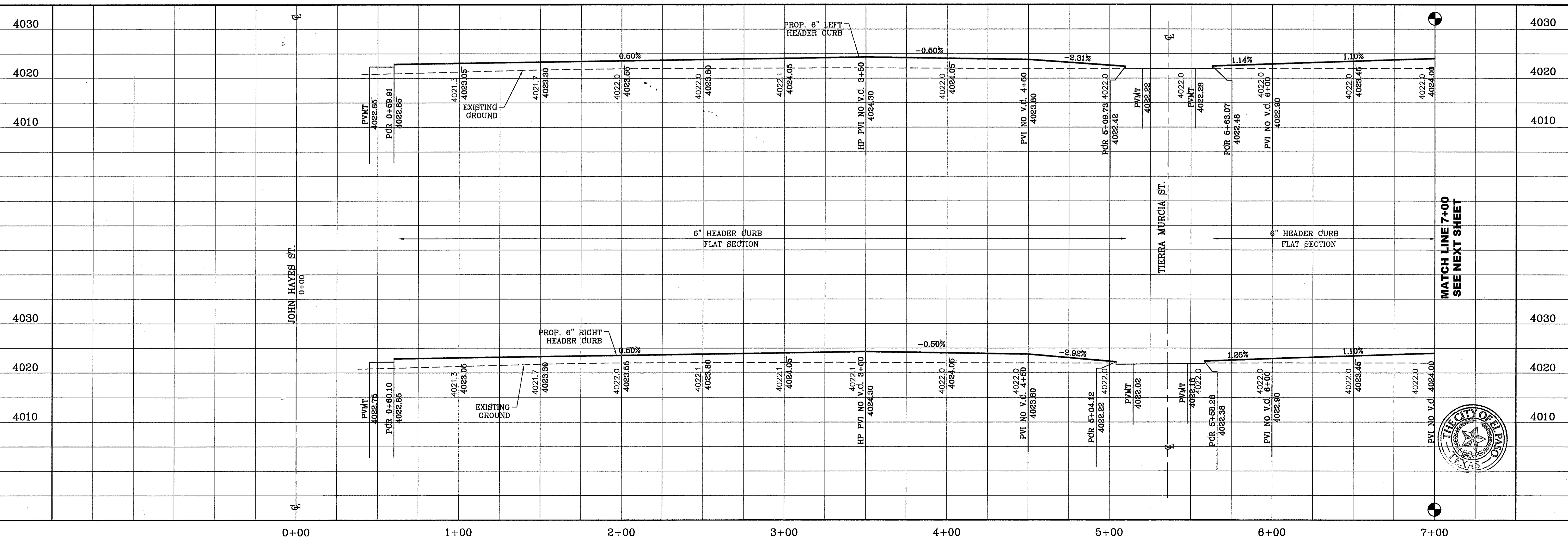
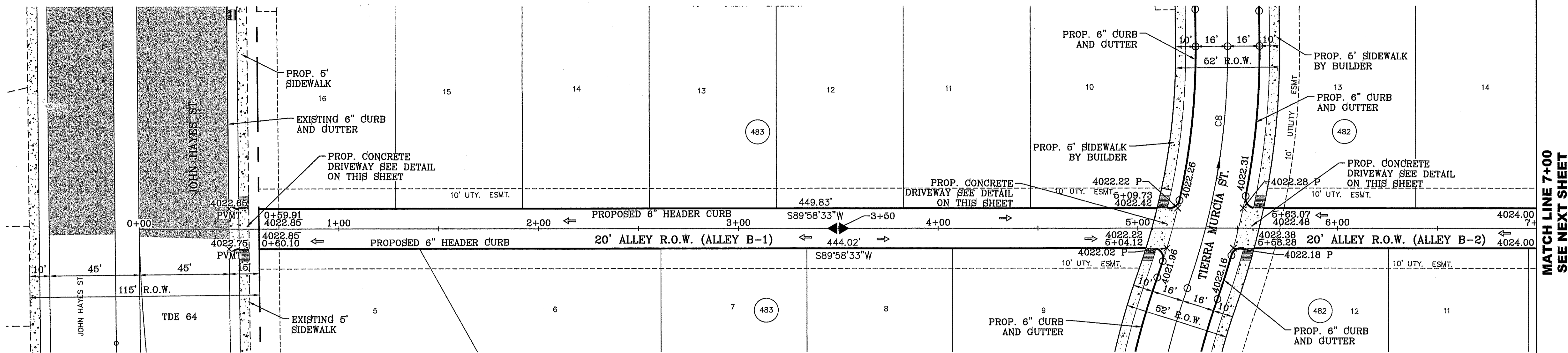
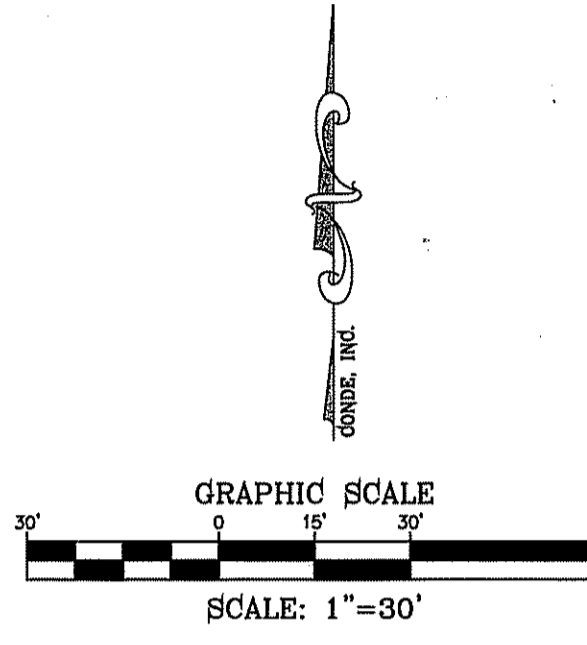
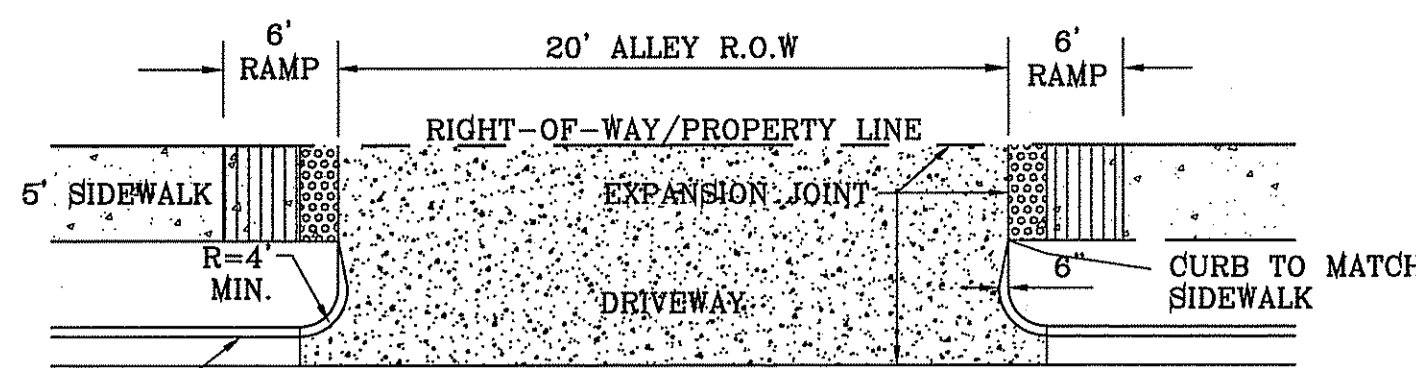
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

STREET TITLE
 ALLEY A-1, A-2
STA: 7+00 TO 14+00

FILE LOCATION: S:\Subdivisions\TDE 74\DWG\PP-ALLEY B SOUTH PLOTTED ON Thursday, June 08, 2017 3:52:30 PM BY FELIX RODRIGUEZ

LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION



MATCH LINE 7+00 SEE NEXT SHEET

MATCH LINE 7+00 SEE NEXT SHEET



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.28NAVD86 DATUM

DATE	REVISIONS	BY

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR

BEING PORTION OF SECTION 48, BLOCK 78, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 80.037± ACRES

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

ENGINEER'S SEAL

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

SHEET TITLE
STREET
PLAN-PROFILE

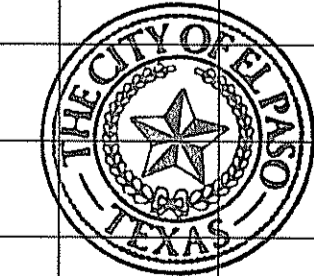
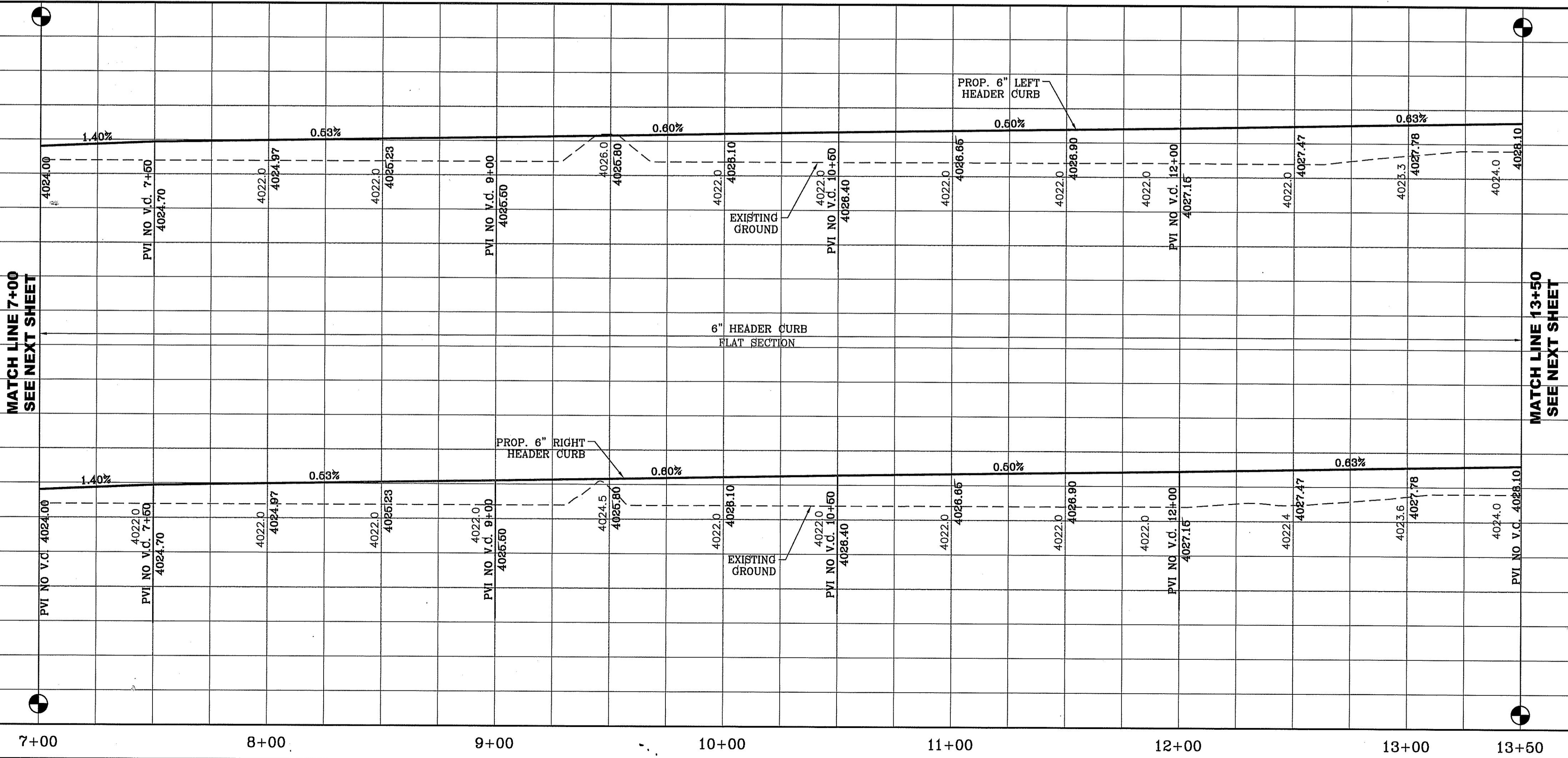
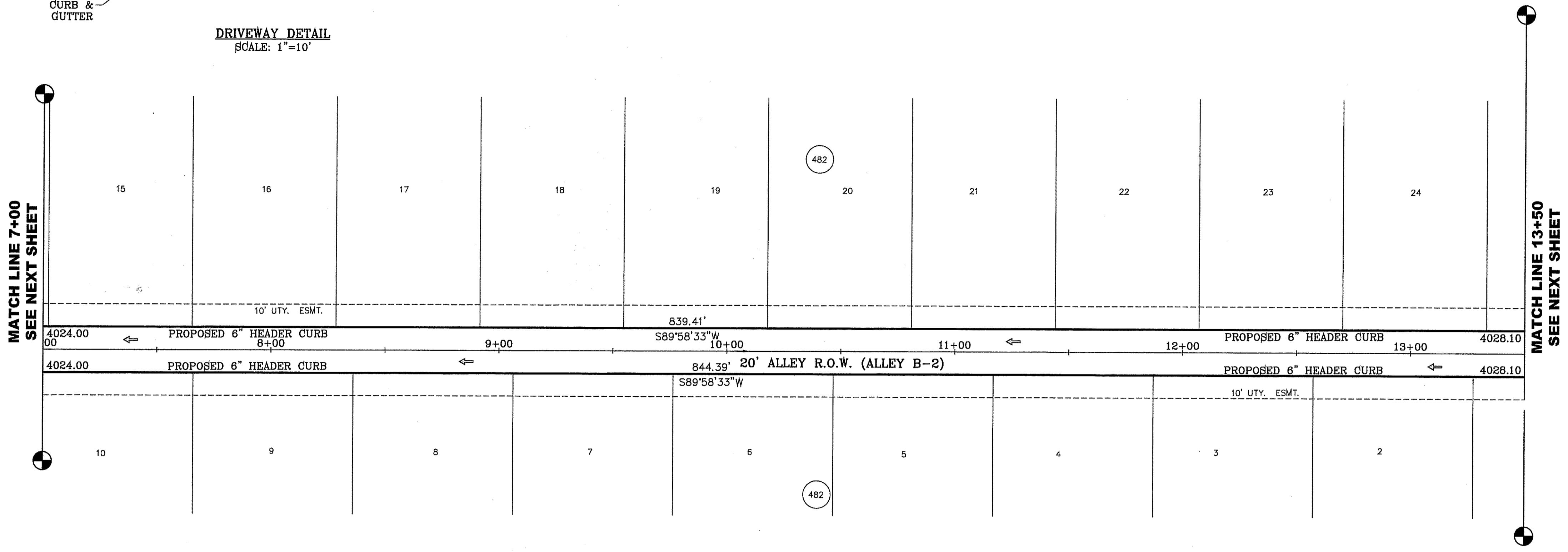
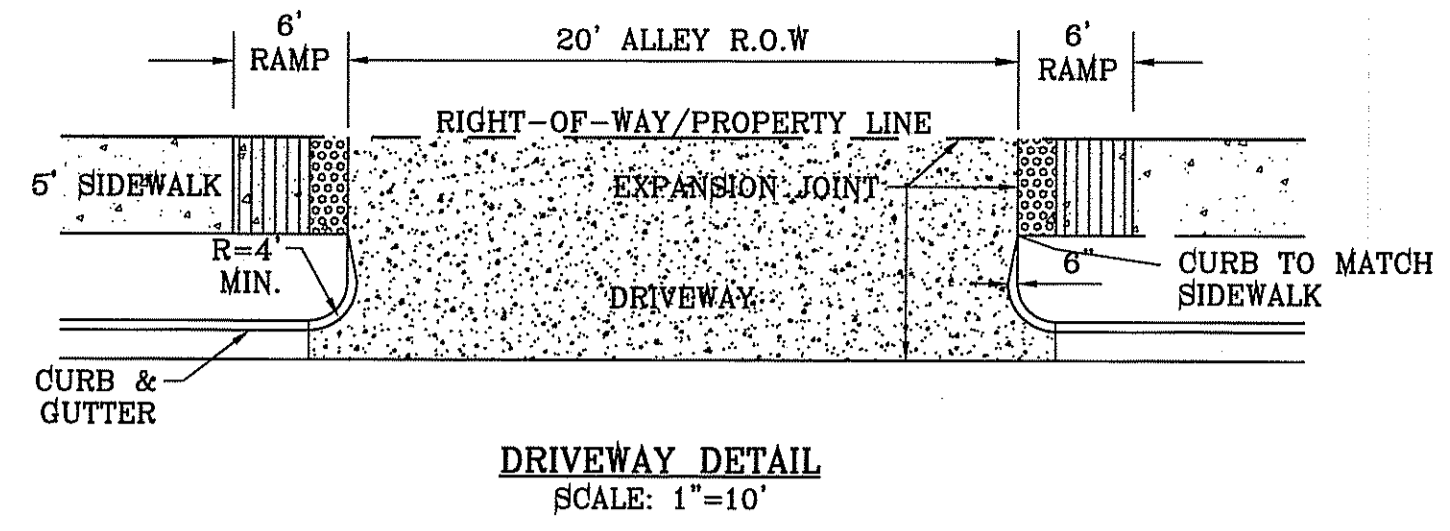
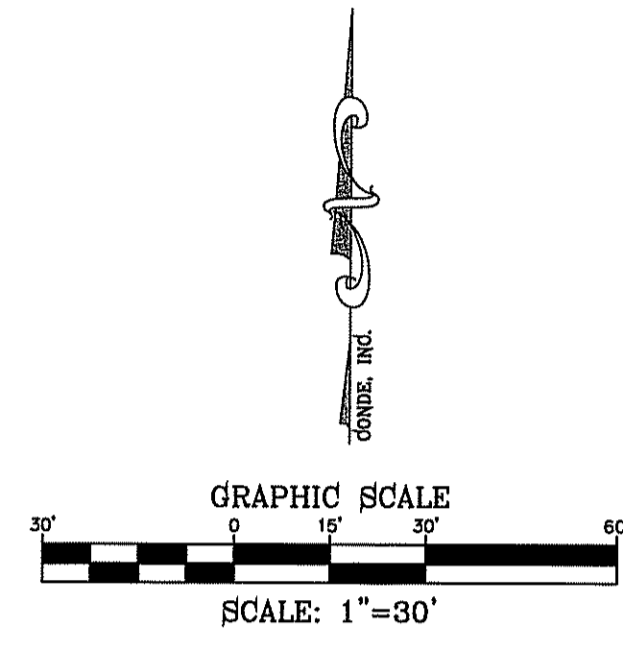
ALLEY B-1 AND B-2
STA: 0+00 TO
STA: 7+00

SHT 40 OF 53

FILE LOCATION S:\Subdivisions\TDE 74 DWG\PP-ALLEY B SOUTH PLOTTED ON Thursday, June 08, 2017 3:33:08 PM BY FELIX RODRIGUEZ

LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4081.28NAVD88 DATUM

REVISIONS

DATE

BY

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR

BEING PORTION OF SECTION 46, BLOCK 78, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'

DATE: MARCH 2016

DESIGN BY: Y.C.

INITIATED BY: F.R.

CHECKED BY: Y.C.

JOB NO.: 718-41

ENGINEER'S SEAL

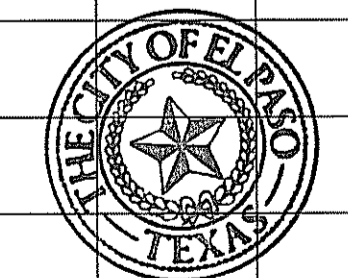
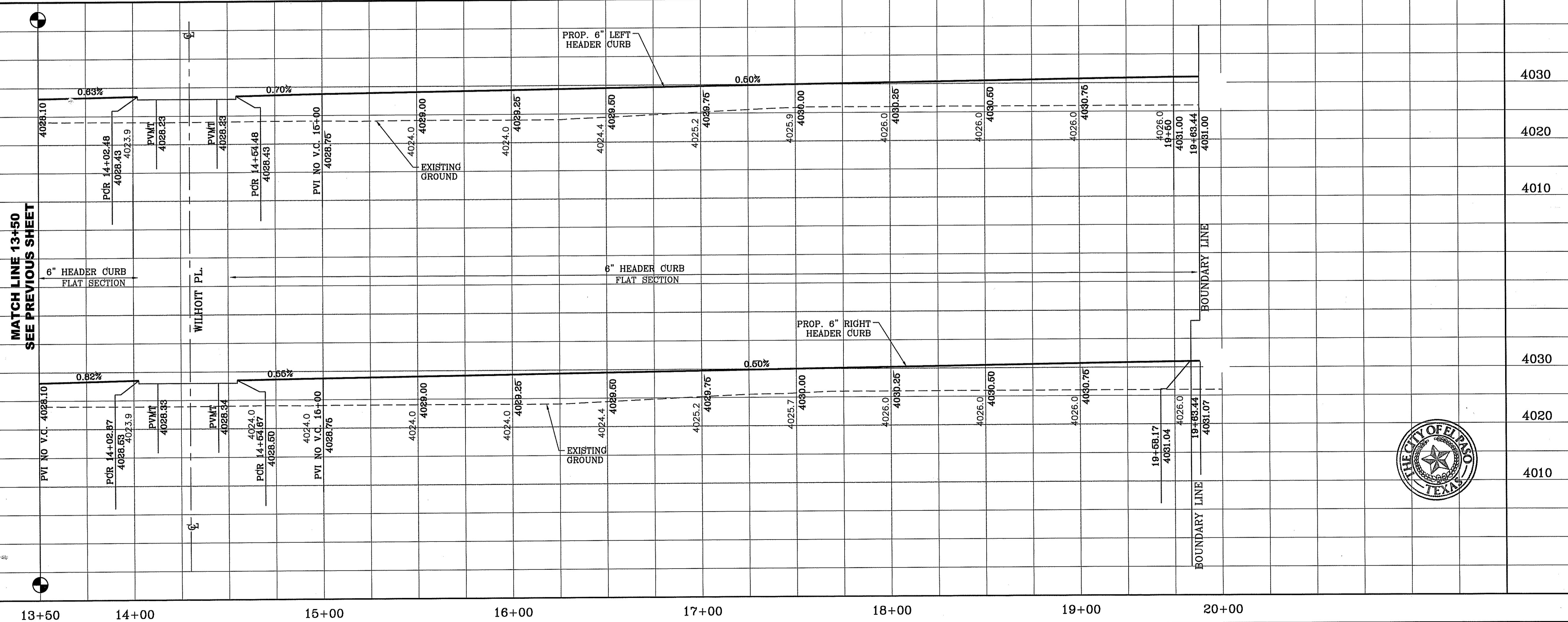
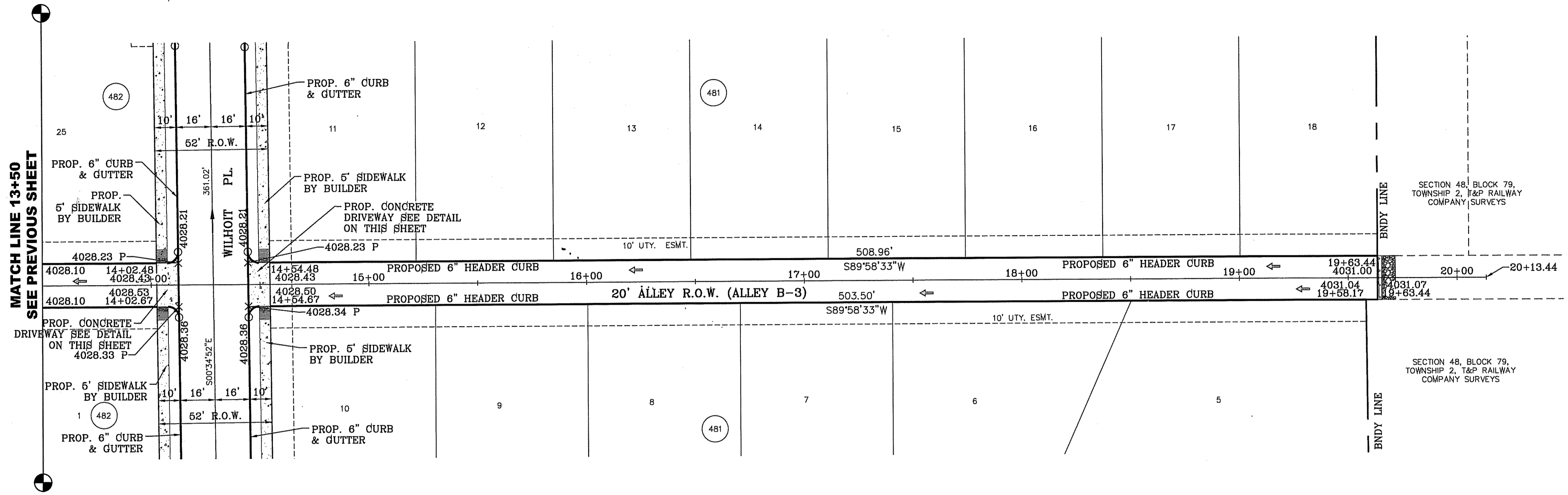
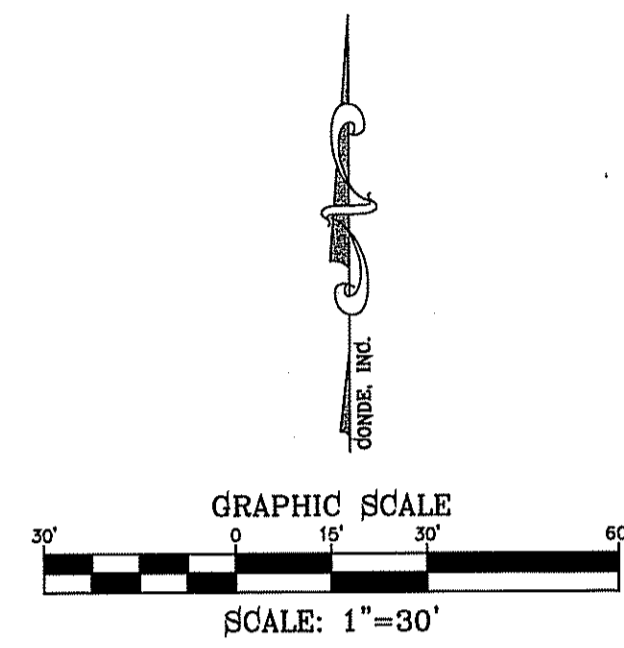
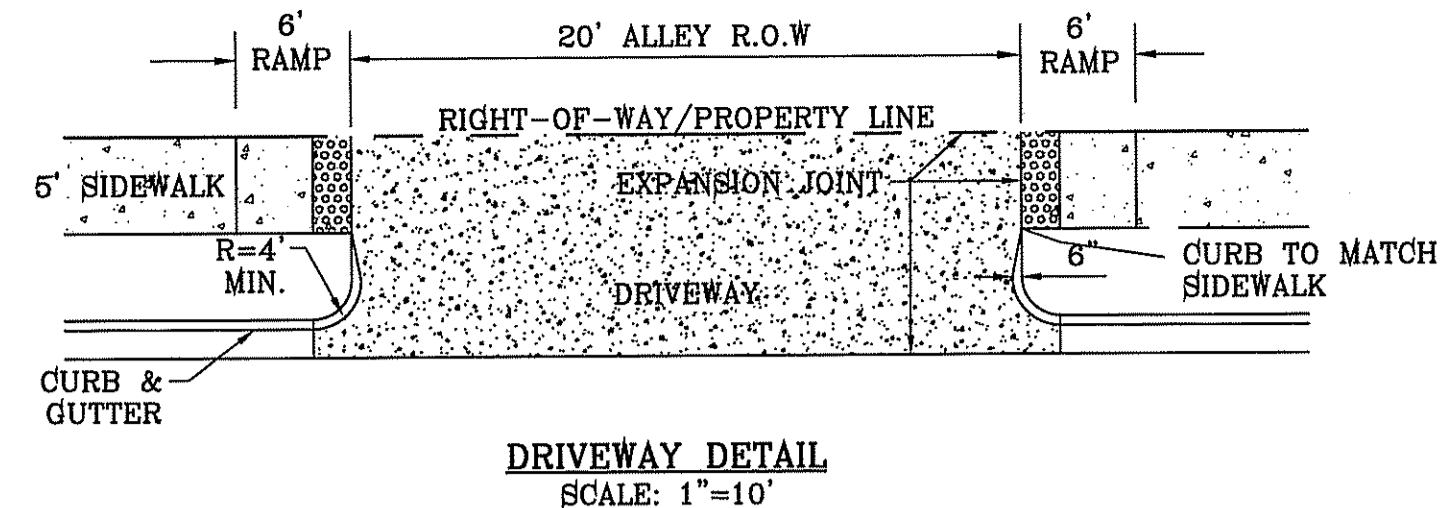
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

SHEET TITLE
ALLEY B-2
STA: 7+00 TO
STA: 13+50

FILE LOCATION S:_Subdivisions\TDE 74\DWG\PP-ALLEY B SOUTH PLOTTED ON Thursday, June 08, 2017 3:33:44 PM BY FELIX RODRIGUEZ

LEGEND

- DIRECTIONAL RAMP
- LOW POINT
- HIGH POINT
- FLOW DIRECTION
- AS-BUILT ELEVATION



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST.
ELEVATION = 4051.28 NAVD83 DATUM

PROJECT NAME
Tierra Del Este Unit Seventy Four
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'

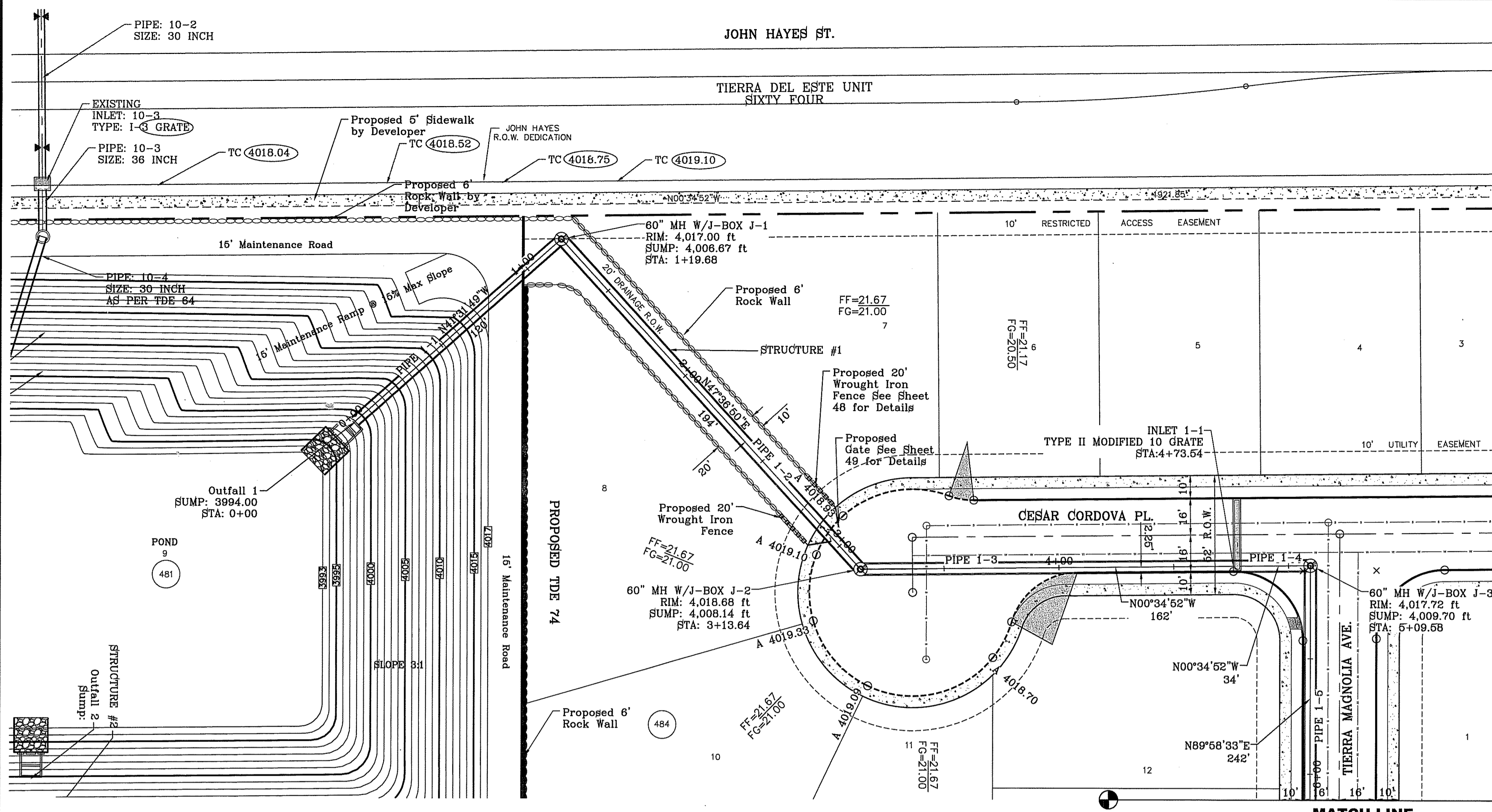
DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

ENGINEER'S SEAL

CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6050 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 692-0286

SHEET TITLE
ALLEY B-3
STA: 13+50 TO
STA: END

FILE LOCATION S:\Subdivisions\TDE 74\DWG\3D PIPE STR 3-22-17 PLOTTED ON Thursday, June 08, 2017 3:37:44 PM BY FELIX RODRIGUEZ



PIPE TABLE										
Pipe	SIZE	LENGTH	SLOPE (FT/FT)	UP INV :	DOWN INV:	QEXP (CFS)	QCAP (CFS)	HGL UP	HGL DOWN	AVERAGE VELOCITY (FT/S)
1-1	48"	120'	0.1059	4008.87	3994.00	120.19	466.72	4013.09	4012.25	9.56
1-2	54"	194'	0.0076	4008.14	4006.67	120.19	171.17	4014.41	4013.69	7.56
1-3	54"	162'	0.0071	4009.30	4008.14	120.19	166.39	4015.62	4015.01	7.56
1-4	54"	34'	0.0119	4009.70	4009.30	97.32	213.28	4016.20	4016.12	6.12
1-5	54"	242'	0.0054	4011.00	4009.70	97.32	144.12	4017.50	4017.00	6.12
1-6	48"	56'	0.0179	4012.00	4011.00	40.00	191.94	4017.54	4017.50	3.18
1-7	42"	285'	0.0050	4012.65	4014.07	40.00	71.01	4018.79	4018.34	4.16
1-8	42"	284'	0.0033	4014.07	4015.00	40.00	57.57	4019.74	4019.29	4.16

INLET TABLE		
STRUCTURE NAME	TOP OF INLET ELEVATION	INVERT ELEVATION
INLET 1-3	4020.61'	4015.00'
J-2	4018.68'	4008.14'
J-3	4017.72'	4009.70'
J-4	4018.14'	4012.00'
J-5	4020.78'	4014.07'
INLET 1-1	4017.50'	4009.30'
INLET 1-2	4017.42'	4011.00'
J-1	4017.00'	4006.67'
OUTFALL 1	4006.67'	3994.00'
INLET 2-1	4019.40'	4014.50'

STRUCTURE #1 INLET DATA					
INLET No.	INLET TYPE	No. GRATES	Qd ₅₀ vr. cfs	Qd ₁₀₀ vr. cfs	Qc cfs
1-1	II	10	19.00	22.87	77.20
1-2	II	10	47.31	57.32	77.20
1-3	II	10	32.32	39.14	77.20
1-4	II	10	42.64	51.62	77.20

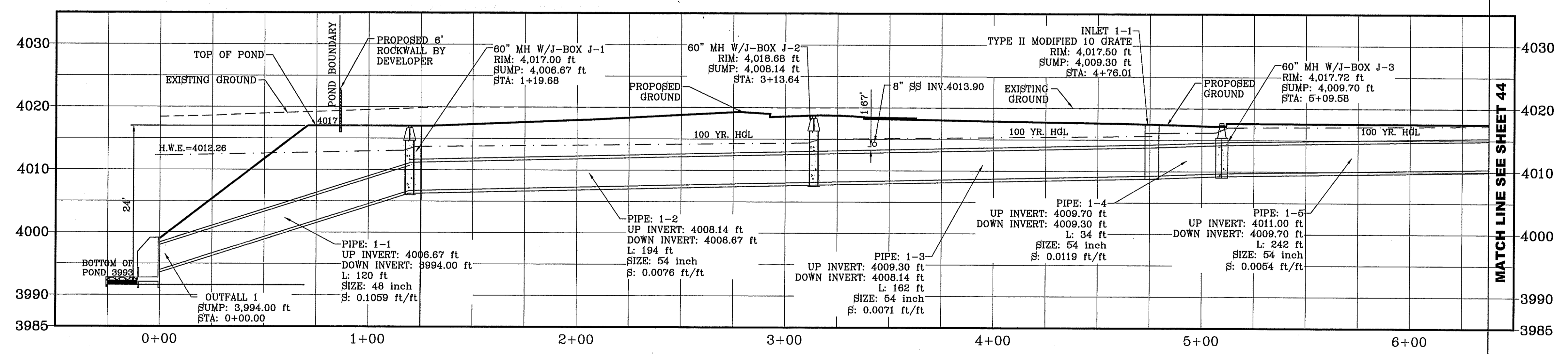
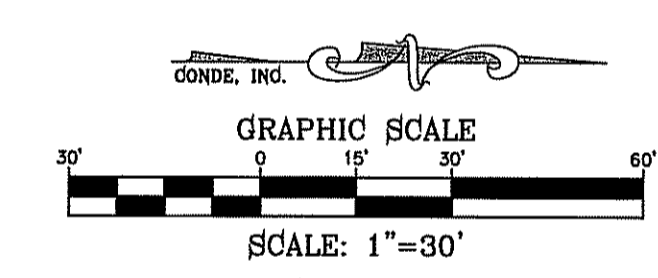
CLOGGING FACTOR = 2/3

- 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 A616 GRADE 60.
 - SANITITE HP TRIPLE WALL TO BE USED AS AN APPROVED ALTERNATE FOR ALL PIPE EXCEPT FOR THE PIPE ENTERING THE POND.

ALL R.C.P. ARE CLASS III OR SANITITE HP TRIPLE WALL UNLESS OTHERWISE NOTED

SANITITE HP NOTE
 PIPE FITTINGS SHALL BE TRIPLE WALL, SMOOTH INTERIOR AND EXTERIOR, WITH ANNULAR INNER CORRUGATIONS IN CONFORMANCE TO ASTM F2764 FOR PIPE DIAMETERS 30" TO 60". PIPE FITTINGS FOR DIAMETERS UP TO AND INCLUDING 60" SHALL HAVE A MINIMUM PIPE STIFFNESS OF 40 PSI WHEN TESTED IN ACCORDANCE WITH ASTM D2412. PIPE FITTINGS FOR DIAMETERS UP TO AND INCLUDING 60" SHALL BE WATER TIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D3212.

MATCH LINE
SEE SHEET 44



BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES POSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.26CITY DATUM
 REVISIONS: BY: F.R. DATE: 06/07/17
 2nd CITY REDLINES AS PER COMMENTS
 PROJECT NAME: TIERRA DEL ESTE UNIT SEVENTY FOUR
 BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 80.037± ACRES
 SCALE: HORIZ: 1" = 30', VERT: 1" = 10'
 DATE: MARCH 2016
 DESIGN BY: Y.C.
 INITIATED BY: F.R.
 CHECKED BY: Y.C.
 JOB NO.: 719-41
 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 NO. 1
 SHT 43 OF 53

Pipe	SIZE	LENGTH	SLOPE (FT/FT)	UP INV.	DOWN INV.	QEXP (CFS)	QCAP (CFS)	HGL UP	HGL DOWN	AVERAGE VELOCITY (FT/S)
1-1	48"	120'	0.1059	4006.67	3994.00	120.19	466.72	4013.09	4012.25	9.56
1-2	54"	194'	0.0076	4008.14	4008.67	120.19	171.17	4014.41	4013.69	7.56
1-3	54"	162'	0.0071	4009.30	4008.14	120.19	166.39	4015.62	4015.01	7.56
1-4	54"	34'	0.0119	4009.70	4009.30	97.32	213.28	4016.20	4016.12	6.12
1-5	54"	242'	0.0054	4011.00	4009.70	97.32	144.12	4017.50	4017.00	6.12
1-6	48"	50'	0.0179	4012.00	4011.00	40.00	191.94	4017.54	4017.50	3.18
1-7	42"	285'	0.0050	4012.65	4014.07	40.00	71.01	4018.79	4018.34	4.16
1-8	42"	284'	0.0033	4014.07	4015.00	40.00	57.57	4019.74	4019.29	4.16

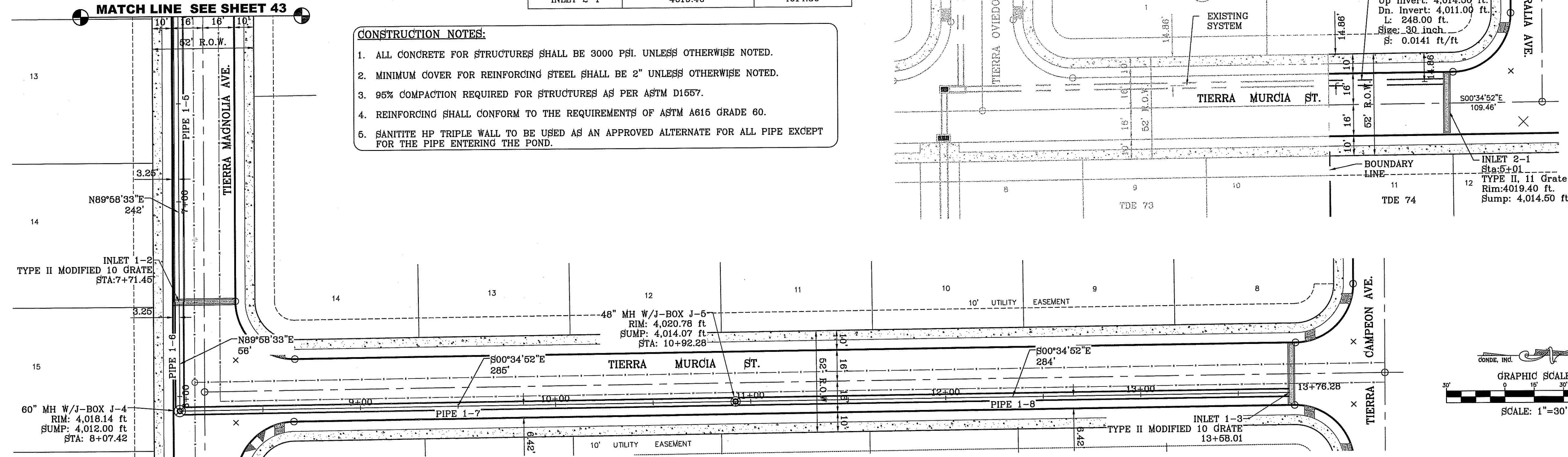
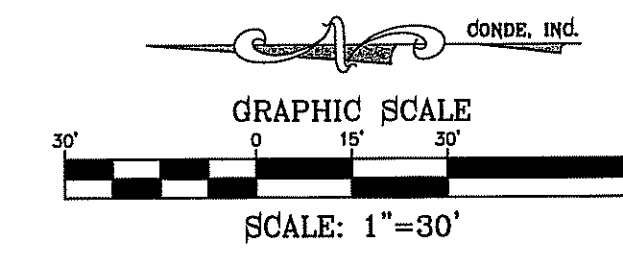
STRUCTURE NAME	TOP OF INLET ELEVATION	INVERT ELEVATION
INLET 1-3	4020.61'	4015.00'
J-2	4018.68'	4008.14'
J-3	4017.72'	4009.70'
J-4	4018.14'	4012.00'
J-5	4020.78'	4014.07'
INLET 1-1	4017.50'	4009.30'
INLET 1-2	4017.42'	4011.00'
J-1	4017.00'	4006.67'
OUTFALL 1	4006.67'	3994.00'
INLET 2-1	4019.40'	4014.50'

INLET No.	INLET TYPE	No. GRATES	Qd ₅₀ yr. cfs	Qd ₁₀₀ yr. cfs	Qc cfs
1-1	II	10	19.00	22.87	77.20
1-2	II	10	47.31	57.32	77.20
1-3	II	10	32.32	39.14	77.20
2-1	II	11	42.64	51.62	84.92

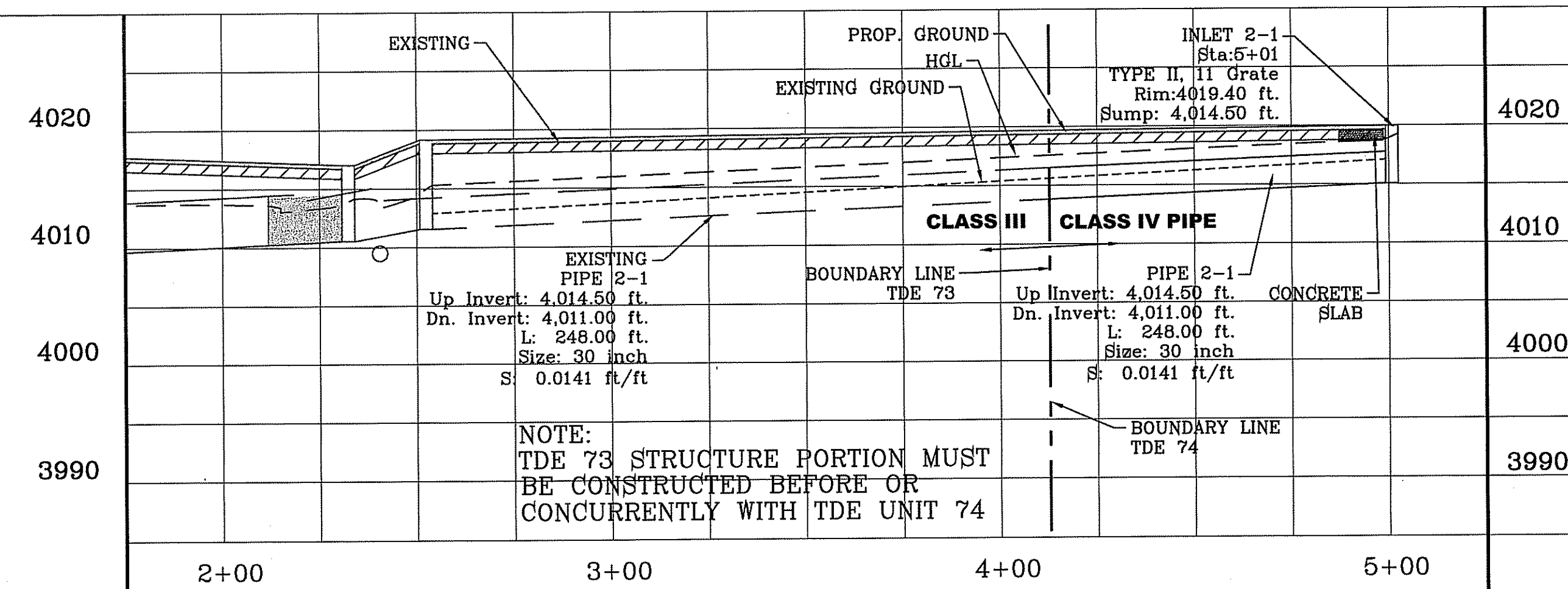
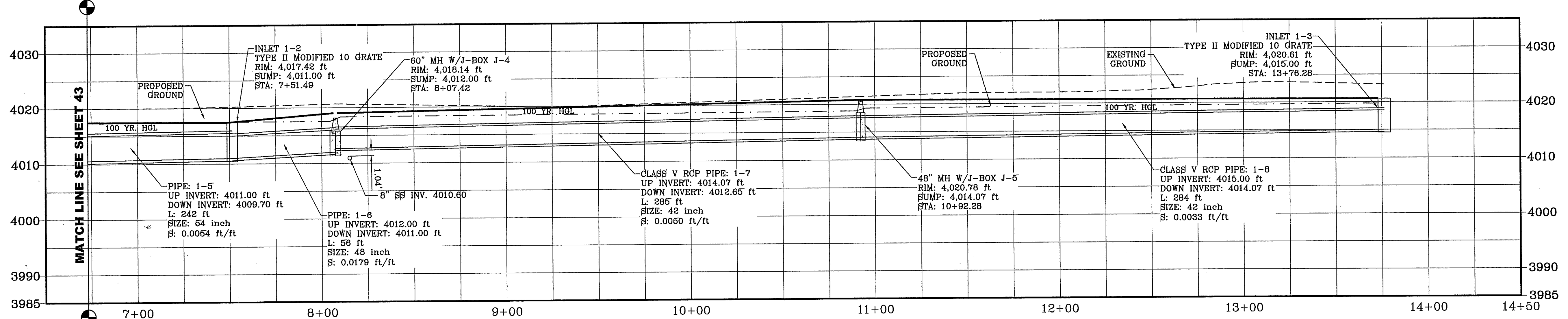
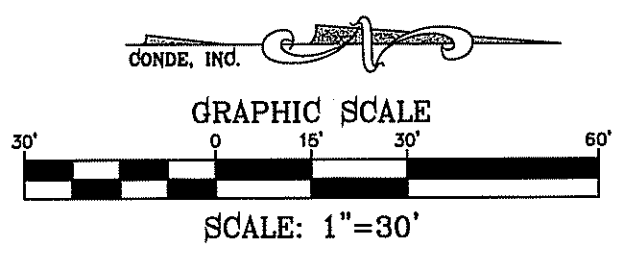
CLOGGING FACTOR = 2/3

SANITITE HP NOTE
 PIPE FITTINGS SHALL BE TRIPLE WALL, SMOOTH INTERIOR AND EXTERIOR, WITH ANNULAR INNER CORRUGATIONS IN CONFORMANCE TO ASTM F2784 FOR PIPE DIAMETERS 30" TO 60". PIPE FITTINGS FOR DIAMETERS UP TO AND INCLUDING 60" SHALL HAVE A MINIMUM PIPE STIFFNESS OF 40 PSI WHEN TESTED IN ACCORDANCE WITH ASTM D2412. PIPE FITTINGS FOR DIAMETERS UP TO AND INCLUDING 60" SHALL BE WATERTIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D3212.

ALL R.C.P. ARE CLASS III OR SANITITE HP TRIPLE WALL UNLESS OTHERWISE NOTED



- CONSTRUCTION NOTES:**
1. ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI, UNLESS OTHERWISE NOTED.
 2. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
 3. 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
 4. REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
 5. SANITITE HP TRIPLE WALL TO BE USED AS AN APPROVED ALTERNATE FOR ALL PIPE EXCEPT FOR THE PIPE ENTERING THE POND.



FILE LOCATION S:\subdivisions\TDE 74 DWG\3D PIPE STR 3-22-17 PLOTTED ON Thursday, June 08, 2017 3:38:30 PM BY FELIX RODRIGUEZ

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER ST. AND JOEY CITY ST.
ELEVATION = 4021.28

PROJECT NAME
TERRA DEL ESTE UNIT SEVENTY FOUR

DATE
08/07/17

DESIGNER
CONDE INC.

INITIATED BY
Y.C.

CHECKED BY
Y.C.

JOB NO.
713-41

SCALES
HORIZ: 1" = 30'
VERT: 1" = 10'

DATE: MARCH 2016

DESIGN BY: Y.C.

TOWNSHIP 2 S, RANGE 10 E, COUNTY 10 W, TEXAS

CONTAINING: 80.037± ACRES

REVISIONS

BY

F.R.

F.R.

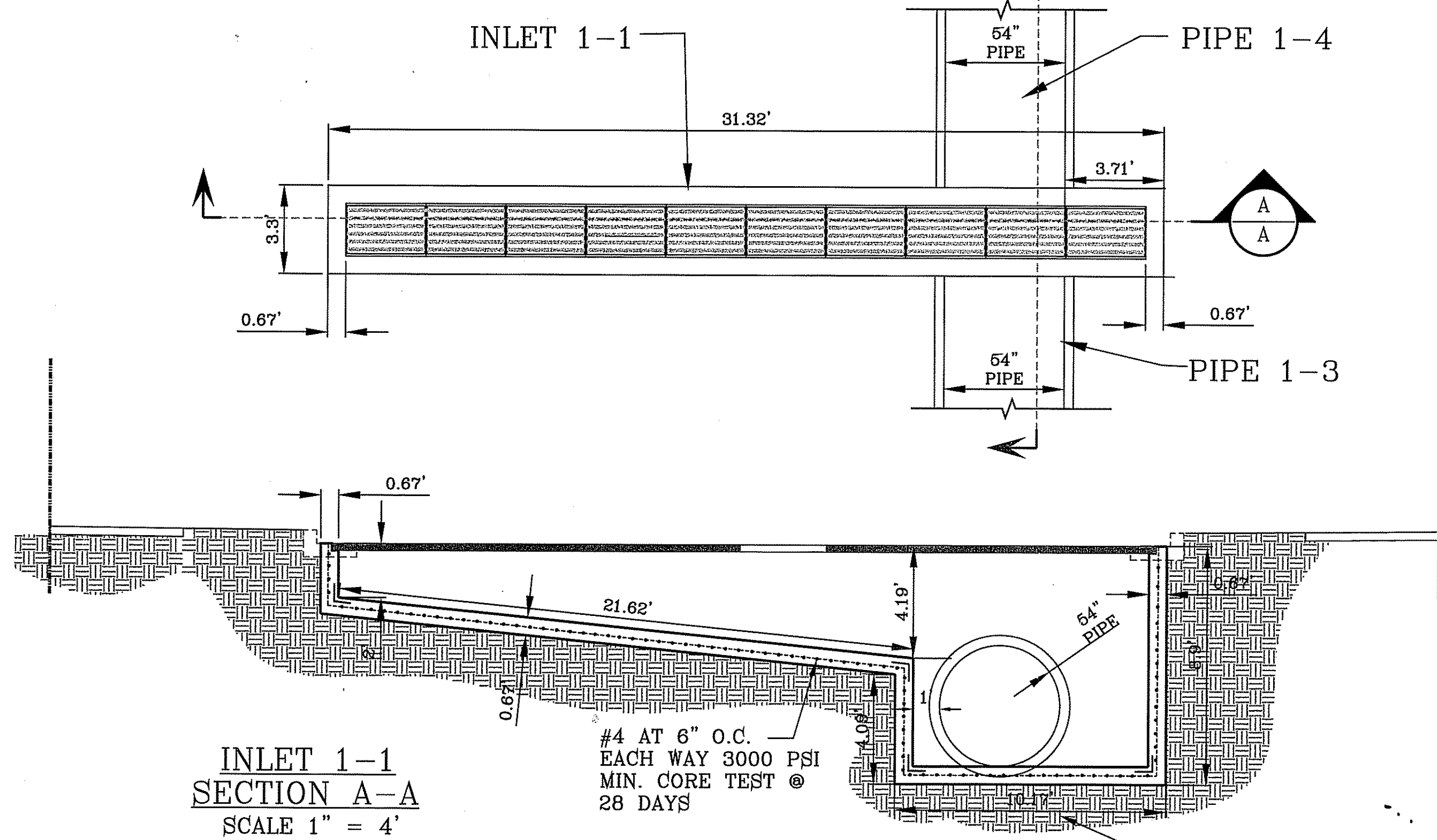
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

SHEET TITLE
STRUCTURE NO.1

SHT 44 OF 53

TIERRA DEL ESTE UNIT SEVENTY FOUR

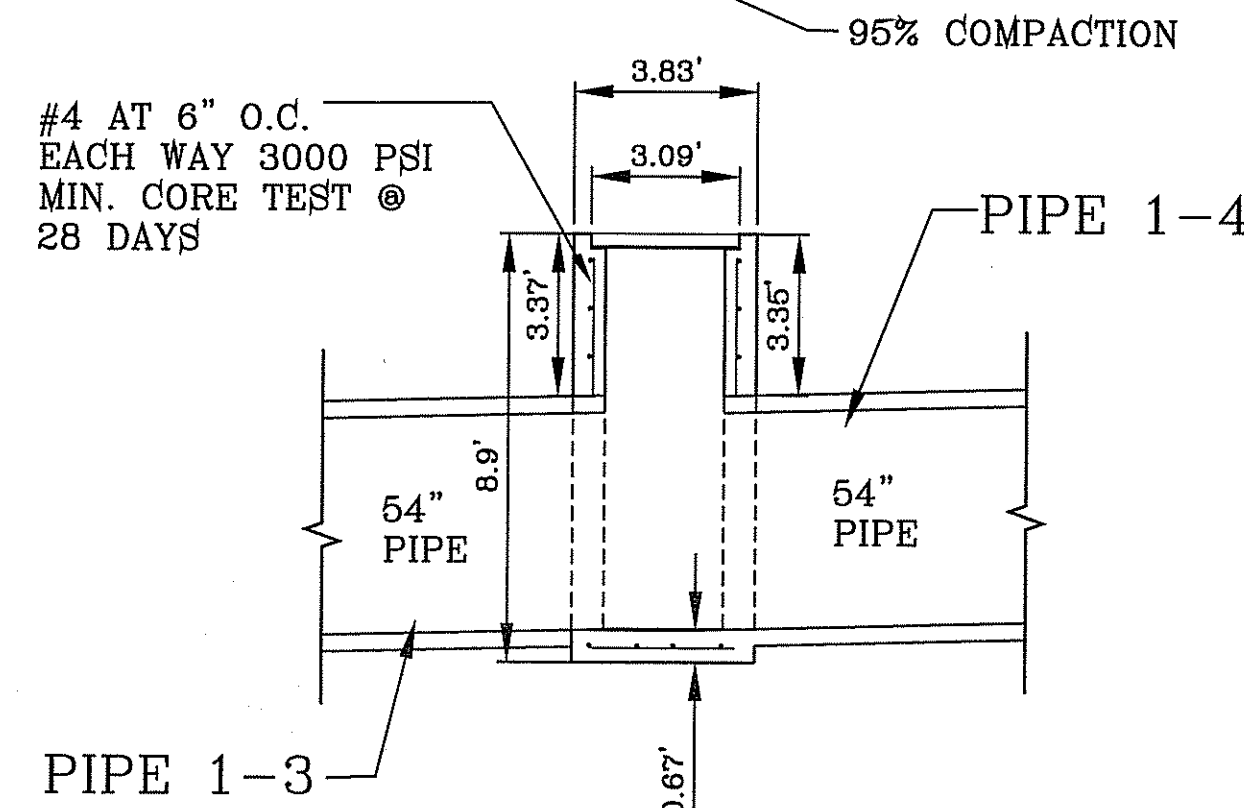
**INLET 1-1
ENLARGED PLAN VIEW**
SCALE 1" = 4'



**INLET 1-1
SECTION A-A**
SCALE 1" = 4'

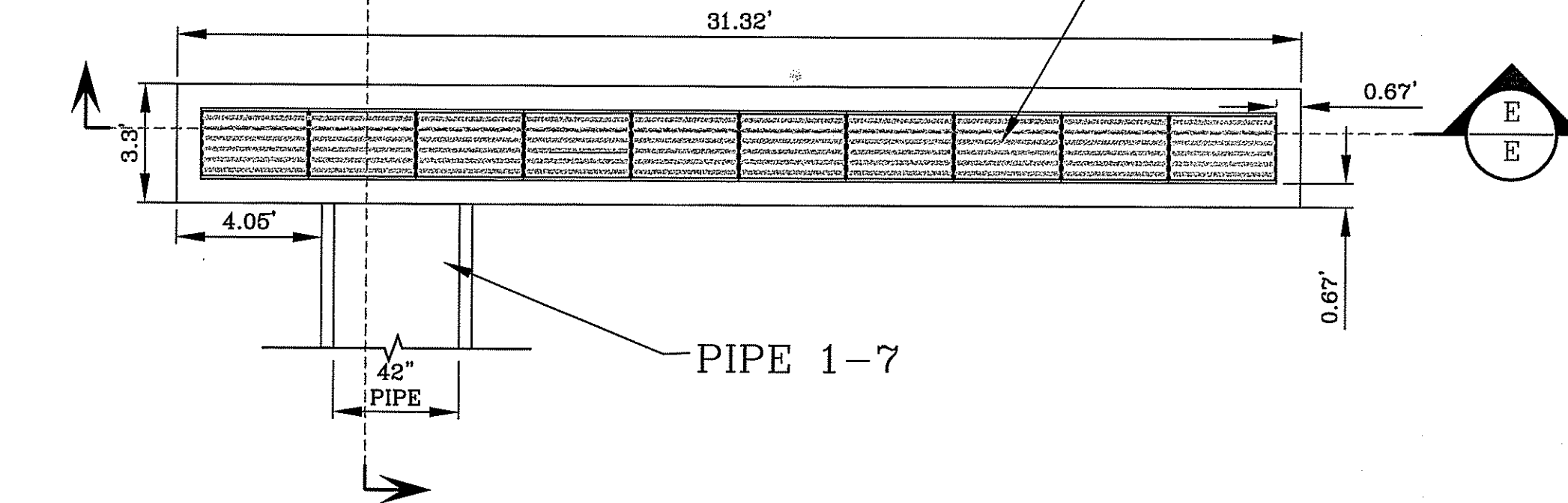
#4 AT 6" O.C.
EACH WAY 3000 PSI
MIN. CORE TEST @
28 DAYS

**INLET 1-1
SECTION B-B**
SCALE 1" = 4'



#4 AT 6" O.C.
EACH WAY 3000 PSI
MIN. CORE TEST @
28 DAYS

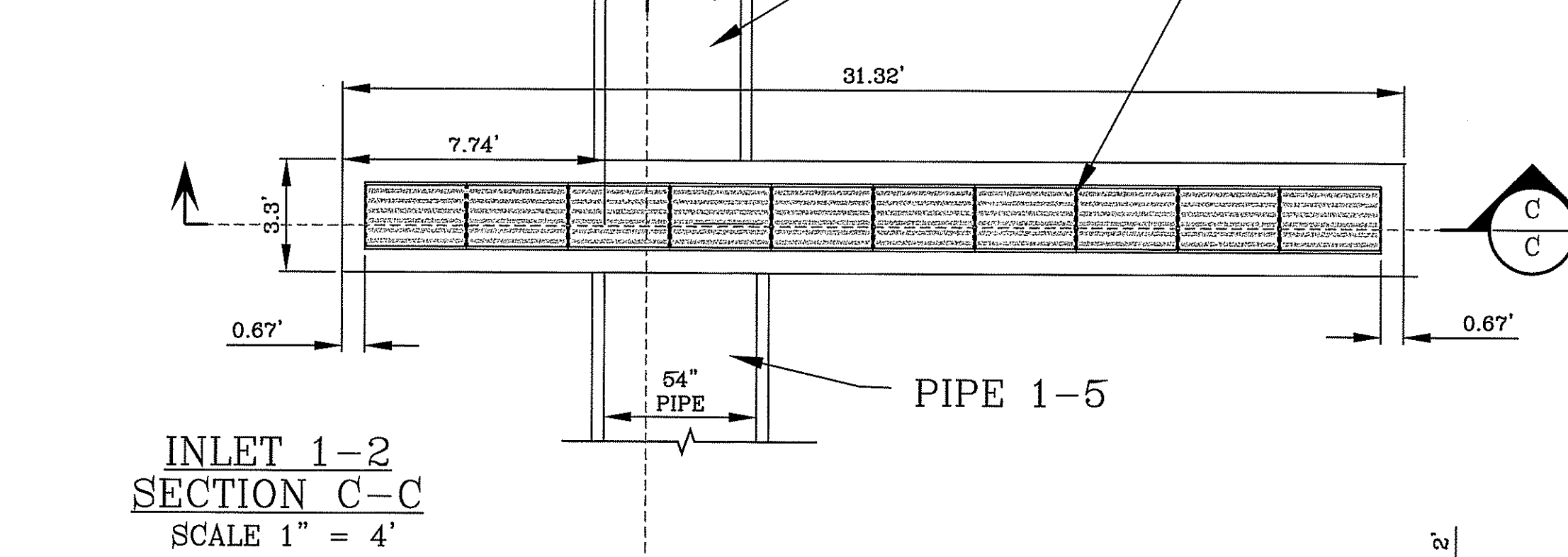
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ENLARGED PLAN VIEW**
SCALE 1" = 4'



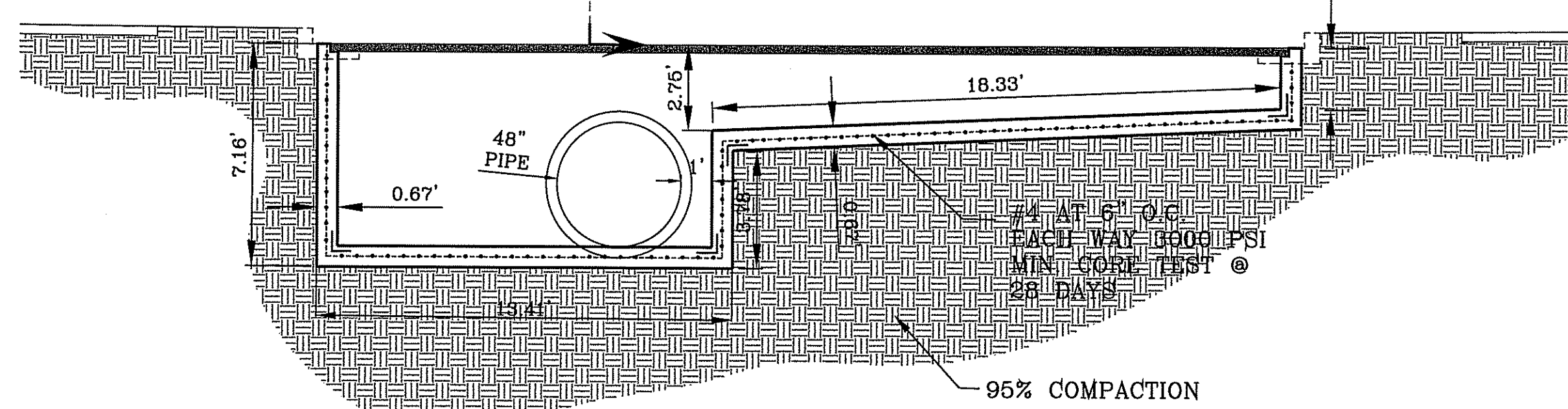
**INLET 1-3
SECTION E-E**
SCALE 1" = 4'

#4 AT 6" O.C.
EACH WAY 3000 PSI
MIN. CORE TEST @
28 DAYS

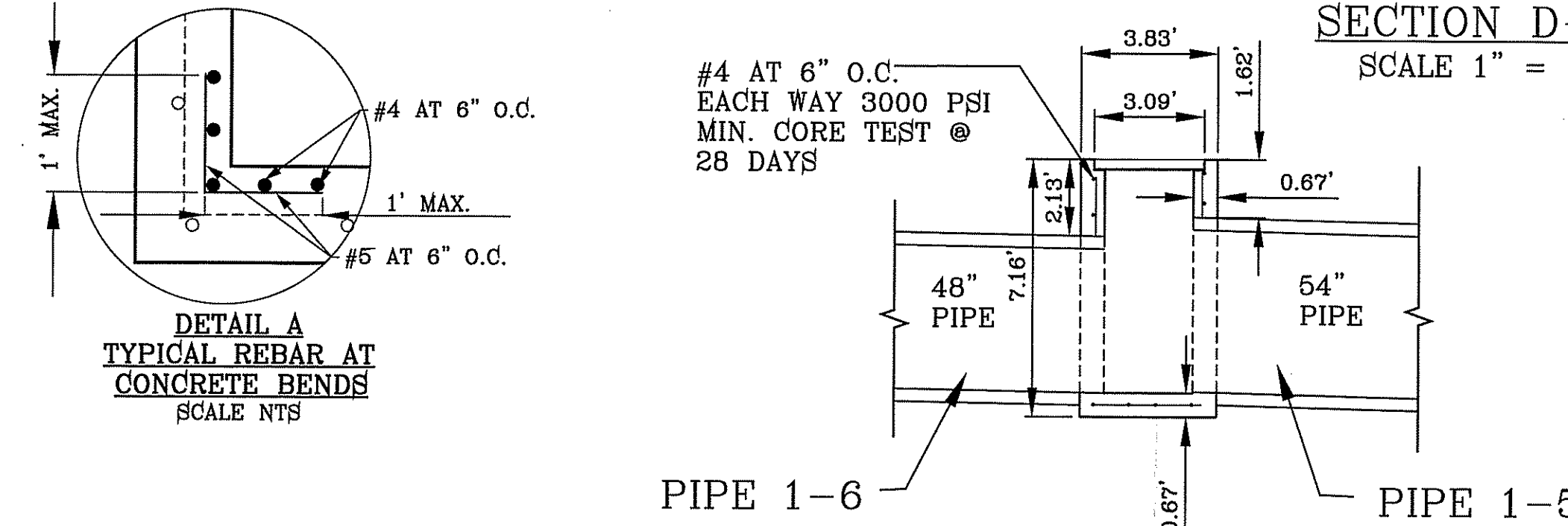
**INLET 1-2
ENLARGED PLAN VIEW**
SCALE 1" = 4'



**INLET 1-2
SECTION C-C**
SCALE 1" = 4'



**INLET 1-2
SECTION D-D**
SCALE 1" = 4'



**DETAIL A
TYPICAL REBAR AT
CONCRETE BENDS**
SCALE NTS

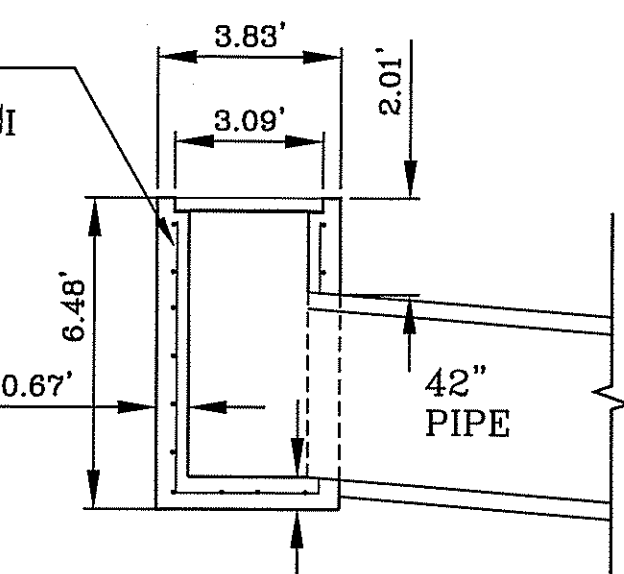
ALL R.C.P. ARE CLASS III OR SANITITE HP
TRIPLE WALL UNLESS OTHERWISE NOTED

CONSTRUCTION NOTES:

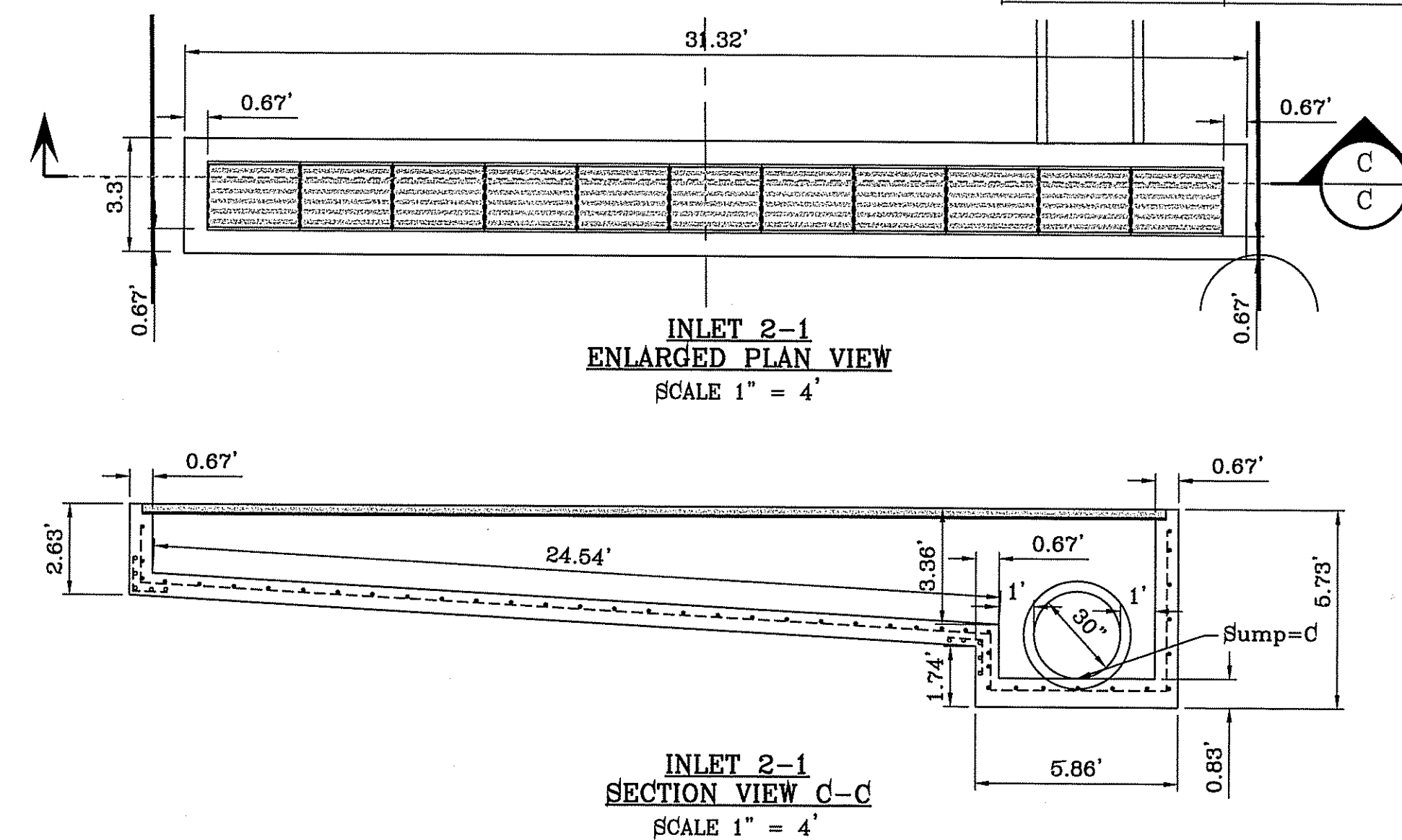
1. ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
2. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
3. 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1667.
4. REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
5. SANITITE HP TRIPLE WALL TO BE USED AS AN APPROVED ALTERNATE FOR ALL PIPE EXCEPT FOR THE PIPE ENTERING THE POND.

No. OF GRATES	"L"
2	7'-1"
3	10'-2"
4	13'-3"
5	16'-4"
11	31'-3 7/8"

INLET TABLE		
STRUCTURE NAME	TOP OF INLET ELEVATION	INVERT ELEVATION
INLET 1-3	4020.61'	4015.00'
J-2	4018.66'	4008.14'
J-3	4017.72'	4009.70'
J-4	4018.14'	4012.00'
J-5	4020.78'	4014.07'
INLET 1-1	4017.60'	4009.30'
INLET 1-2	4017.42'	4011.00'
J-1	4017.00'	4006.67'
OUTFALL 1	4006.67'	3994.00'

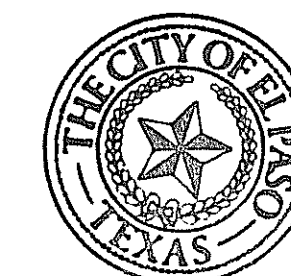


**INLET 1-3
SECTION F-F**
SCALE 1" = 4'



**INLET 2-1
ENLARGED PLAN VIEW**
SCALE 1" = 4'

**INLET 2-1
SECTION VIEW C-C**
SCALE 1" = 4'



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
CHARLES FOSTER PL. AND JOHN HAYES ST.
ELEVATION = 4021.28 CITY DATUM

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR
BEING PORTION OF SECTION 48, BLOCK 78
TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 80.037± ACRES

SCALE
HORIZ. AS NOTED
VERT. ---
DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

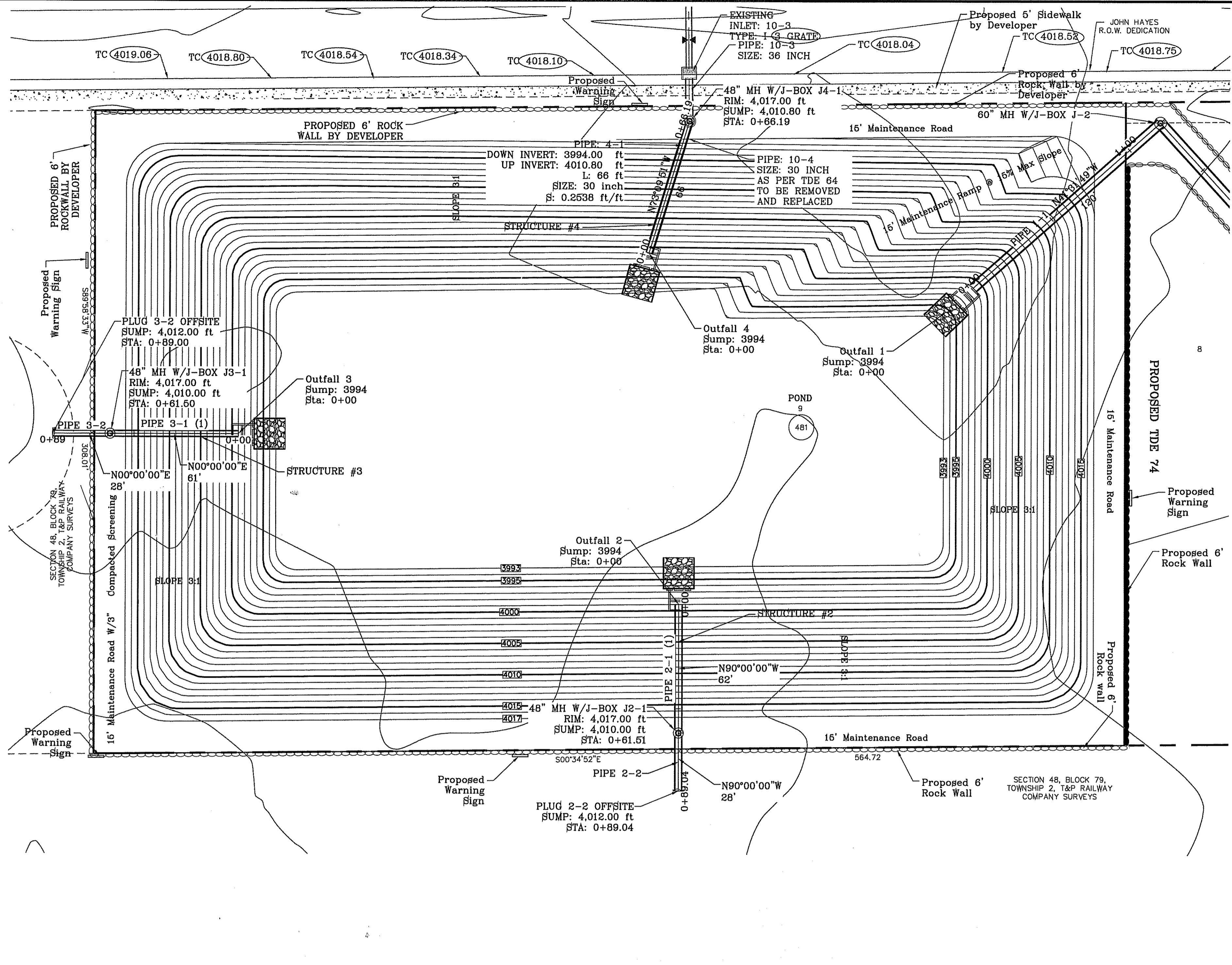
ENGINEER'S SEAL
ENGINEER'S SEAL
NOT REQUIRED
THIS SHEET
IS PRODUCED
FROM CITY
SUBDIVISION
DESIGN STANDARDS

CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0263
FAX: (915) 692-0266

SHEET TITLE
**STORM DRAIN
INLET DETAILS**
SHT 45 OF 53

FILE LOCATION S:\Subdivisions\DE 74\DWG\3D PIPE STR 3-22-17 PLOTTED ON Thursday, June 08, 2017 3:39:11 PM BY FELIX RODRIGUEZ

FILE LOCATION: \Subdivisions\TDE 74\DWG\SD PIPE STR 2,3,4 3-16-17 PLOTTED ON Thursday, June 08, 2017 3:45:44 PM BY FELIX RODRIGUEZ



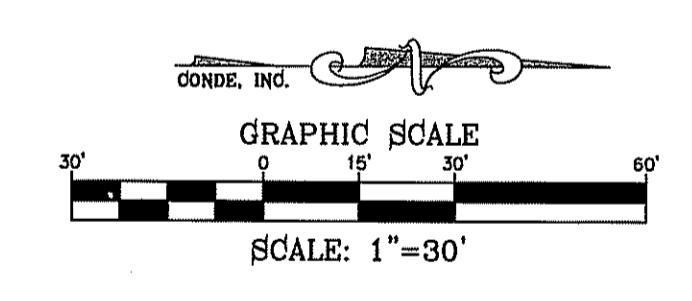
PIPE TABLE										
Pipe	SIZE	LENGTH	SLOPE (FT/FT)	DOWN INV	UP INV	QEXP (CFS)	QCAP (CFS)	HGL UP	HGL DOWN	AVERAGE VELOCITY (FT/S)
2-1 (1)	36"	62'	0.2601	3994.00	4010.00	82.32	298.27	4013.48	4012.26	11.65
2-2	36"	28'	0.0908	4010.00	4012.50	82.32	120.24	4015.29	4014.06	11.83

PIPE TABLE										
Pipe	SIZE	LENGTH	SLOPE (FT/FT)	DOWN INV	UP INV	QEXP (CFS)	QCAP (CFS)	HGL UP	HGL DOWN	AVERAGE VELOCITY (FT/S)
3-1 (1)	30"	61'	0.2602	3994.00	4010.00	60.01	183.42	4013.97	4012.26	12.23
3-2	30"	28'	0.0909	4010.00	4012.50	60.01	73.94	4016.20	4014.55	12.32

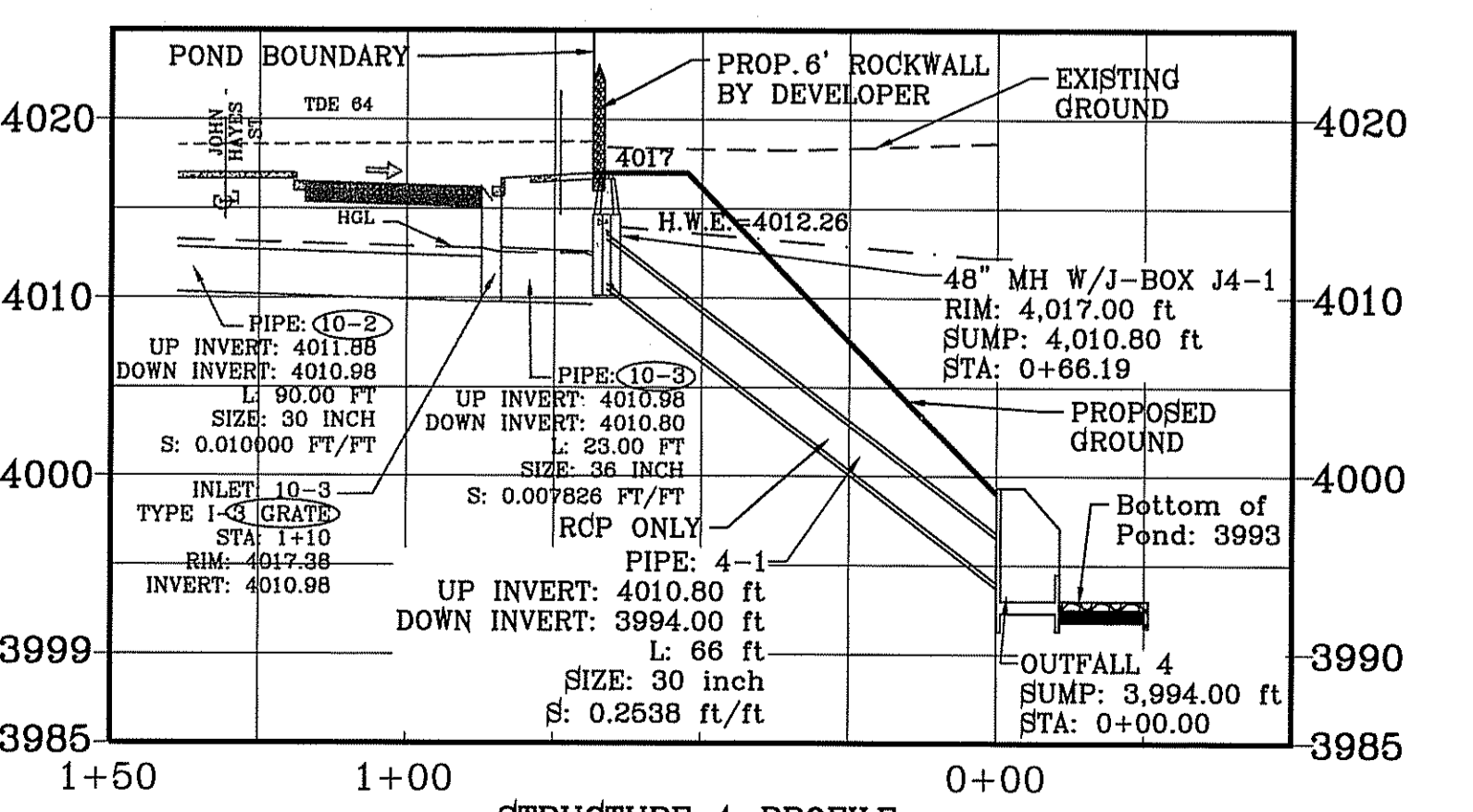
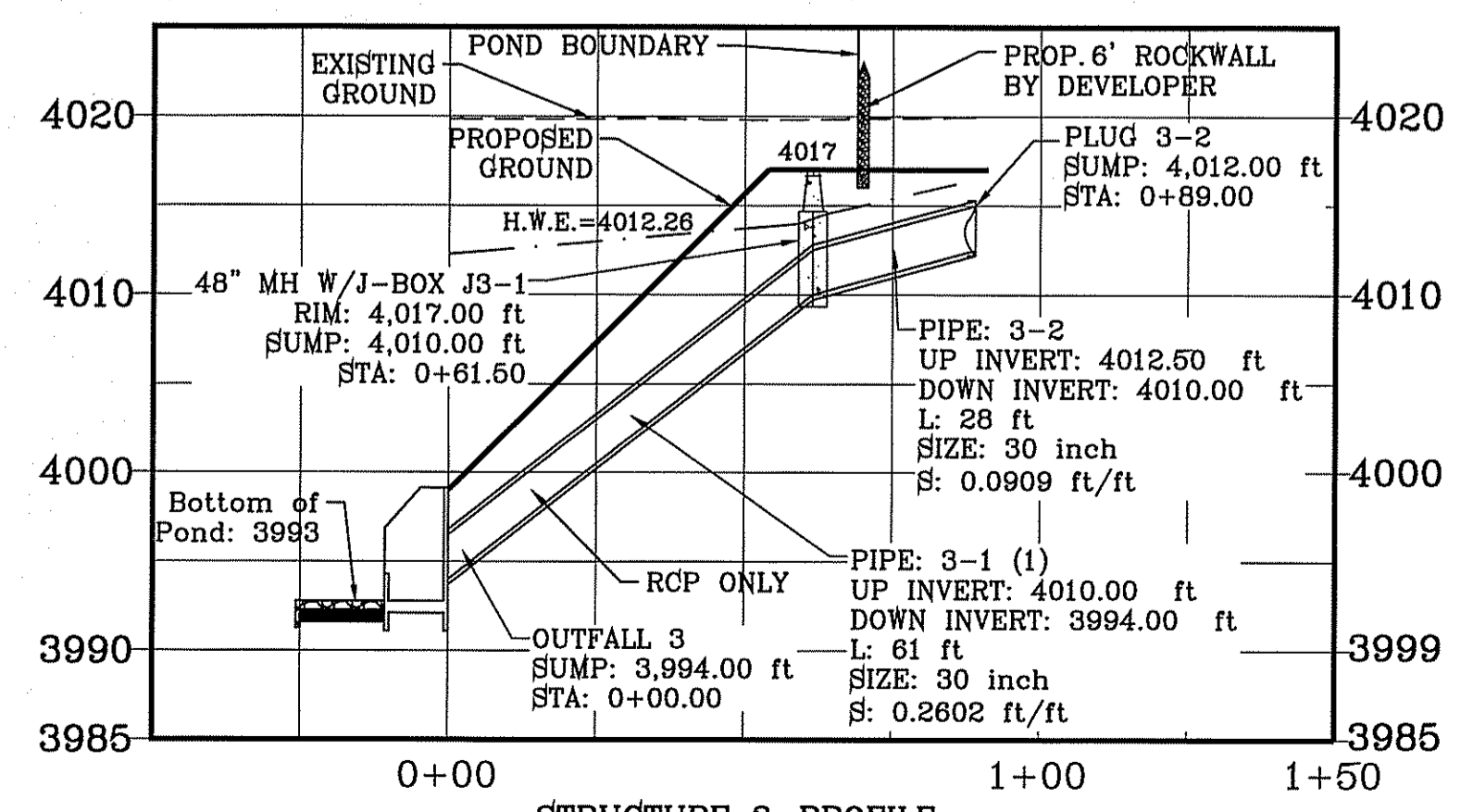
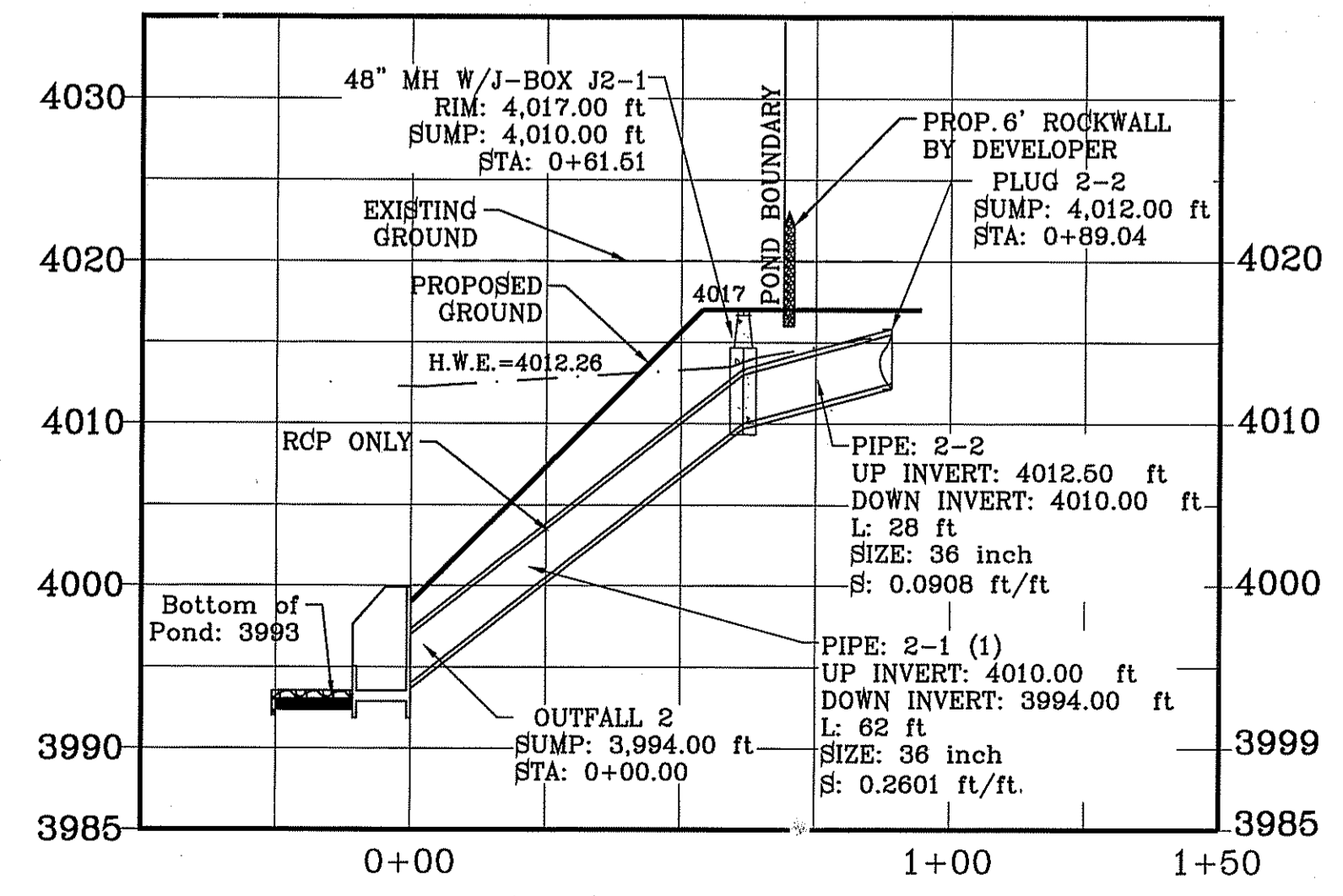
PIPE TABLE										
Pipe	SIZE	LENGTH	SLOPE (FT/FT)	DOWN INV	UP INV	QEXP (CFS)	QCAP (CFS)	HGL UP	HGL DOWN	AVERAGE VELOCITY (FT/S)
4-1	30"	66'	0.2538	4010.80	3994.00	60.01	185.42	4013.97	4012.26	12.74

- CONSTRUCTION NOTES:**
1. ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI UNLESS OTHERWISE NOTED.
 2. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
 3. 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
 4. REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
 5. SANITITE HP TRIPLE WALL TO BE USED AS AN APPROVED ALTERNATE FOR ALL PIPE EXCEPT FOR THE PIPE ENTERING THE POND.

ALL R.C.P. ARE CLASS III OR SANITITE HP TRIPLE WALL UNLESS OTHERWISE NOTED



SANITITE HP NOTE
 PIPE FITTINGS SHALL BE TRIPLE WALL, SMOOTH INTERIOR AND EXTERIOR, WITH ANNULAR INNER CORRUGATIONS IN CONFORMANCE TO ASTM F2764 FOR PIPE DIAMETERS 30" TO 60". PIPE FITTINGS FOR DIAMETERS UP TO AND INCLUDING 60" SHALL HAVE A MINIMUM PIPE STIFFNESS OF 40 PSI WHEN TESTED IN ACCORDANCE WITH ASTM D2412. PIPE FITTINGS FOR DIAMETERS UP TO AND INCLUDING 60" SHALL BE WATERTIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D3212.



BENCHMARK

CITY MONUMENT AT THE CENTRELINE INTERSECTION OF CHARLES FOSTER PL AND JOHN HAYES ST.
 ELEVATION = 4021.28 CITY DATUM

DATE: 09/27/17

BY: X.X.

REVISIONS

2nd CITY REDLINES AS PER COMMENTS

PROJECT NAME

TERRA DEL ESTE UNIT SEVENTY FOUR

BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

SCALES

HORIZ. 1" = 30'

VERT. 1" = 10'

DATE: MARCH 2016

DESIGN BY: Y.C.

INITIATED BY: F.R.

CHECKED BY: Y.C.

JOB NO.: 719-41

CONDE INC.

ENGINEERING / PLANNING
 SURVEYING / GPS

6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905

PHONE: (915) 592-0285
 FAX: (915) 592-0286

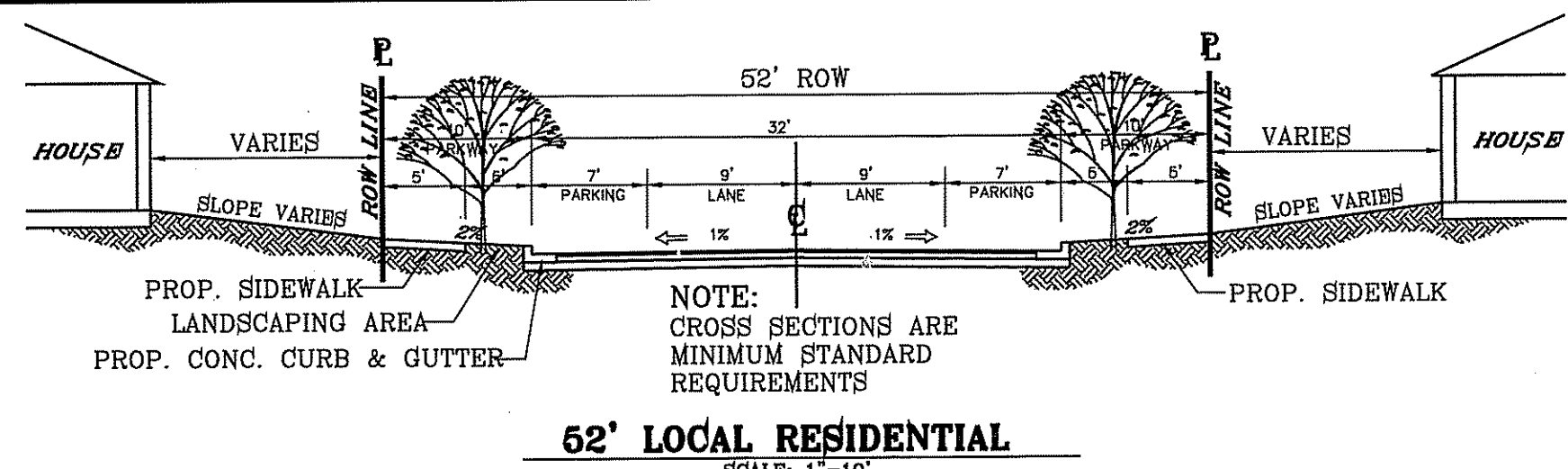
CONDE INC.

REGISTRATION No. F-3221

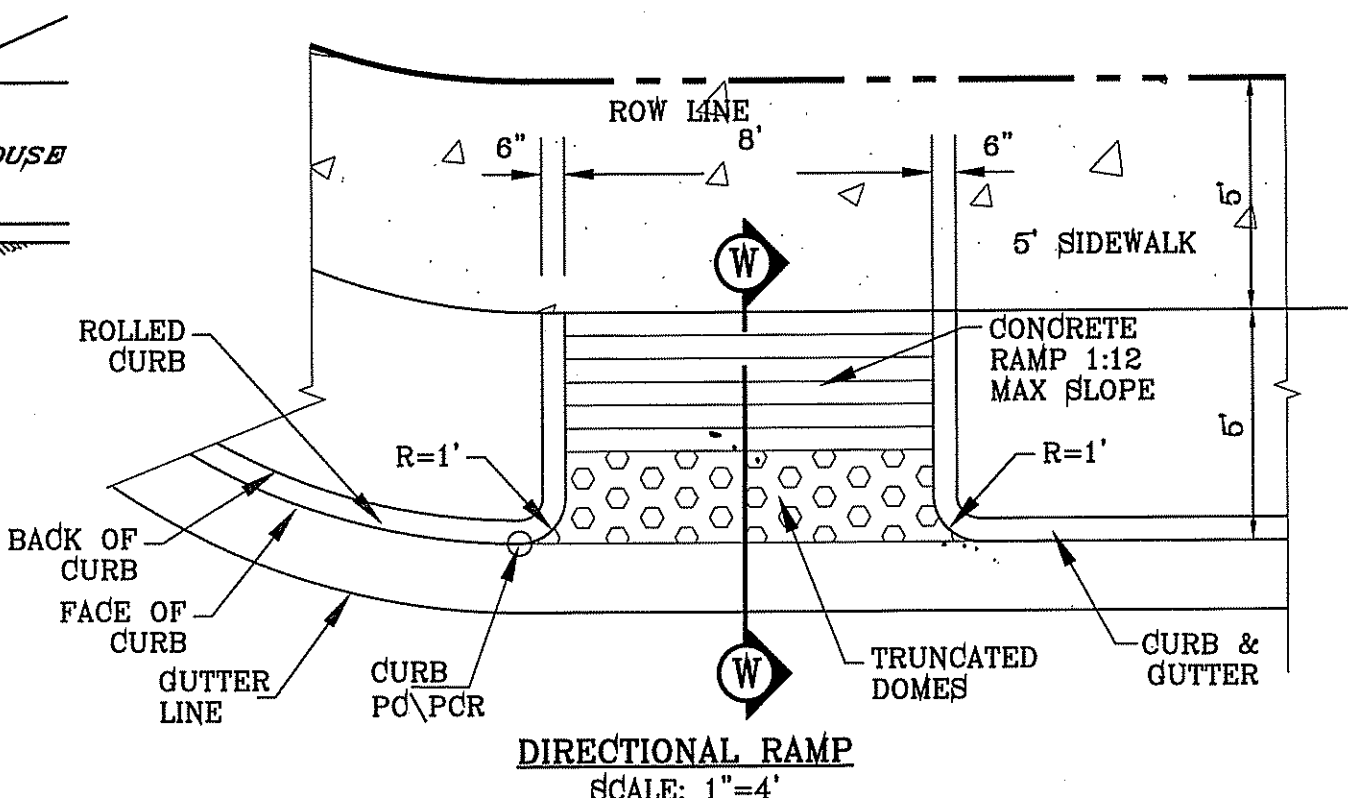
SHEET TITLE

STRUCTURES NO. 2-4

FILE LOCATION: s:\subdivisions\TDE 74.DWG STANDARD DETAILS PLOTTED ON Thursday, October 12, 2017 8:19:57 AM BY FELIX RODRIGUEZ

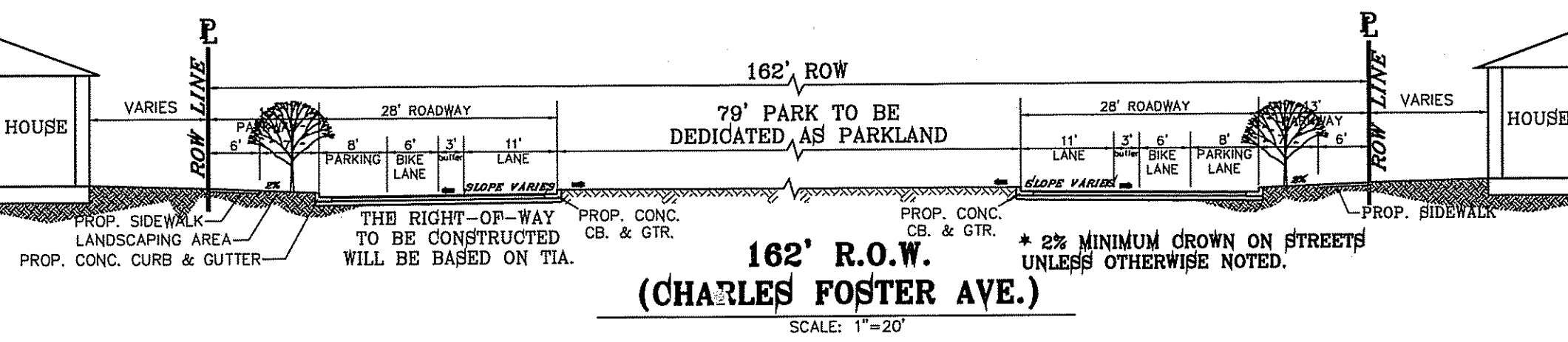


52' LOCAL RESIDENTIAL
SCALE: 1"=10'

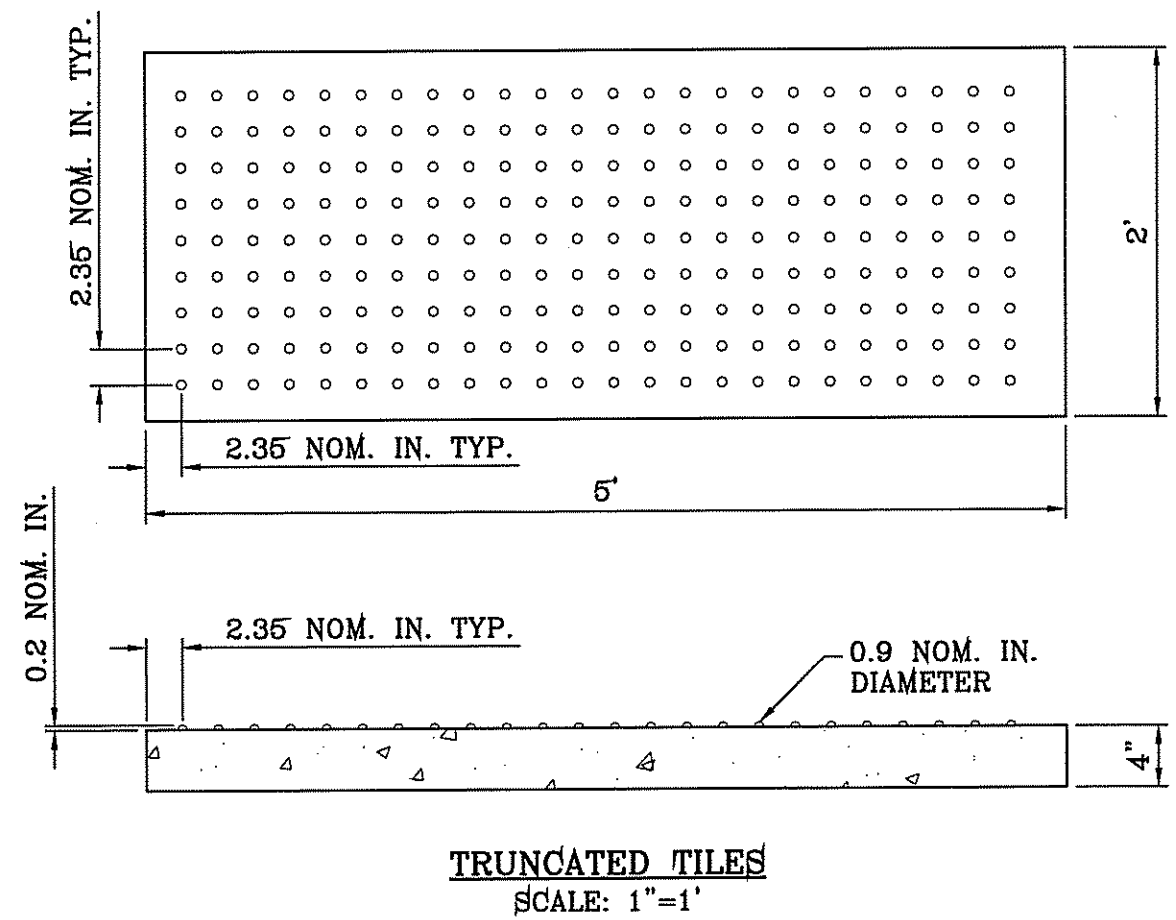


DIRECTIONAL RAMP SECTION W
SCALE: 1"=2'

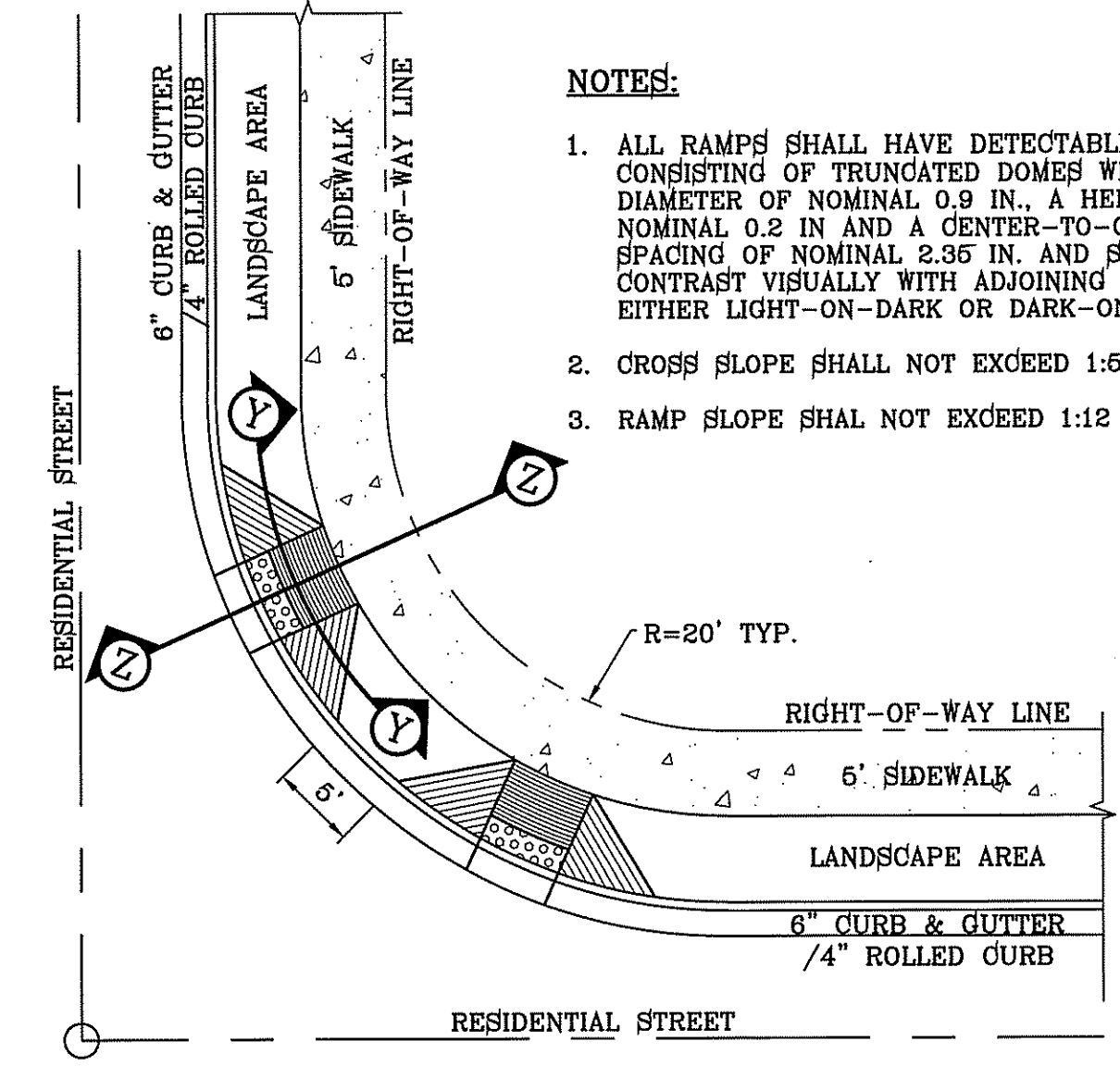
- NOTES:**
1. ALL RAMP SHALL HAVE DETECTABLE WARNINGS CONSISTING OF TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN., A HEIGHT OF NOMINAL 0.2 IN AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN. AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.
 2. CROSS SLOPE SHALL NOT EXCEED 1:50
 3. RAMP SLOPE SHALL NOT EXCEED 1:12
 4. ALL RAMP SHALL BE BUILT BY DEVELOPER
 5. AND COMPLY WITH ADA AND T&S STANDARDS



162' R.O.W. (CHARLES FOSTER AVE.)
SCALE: 1"=20'

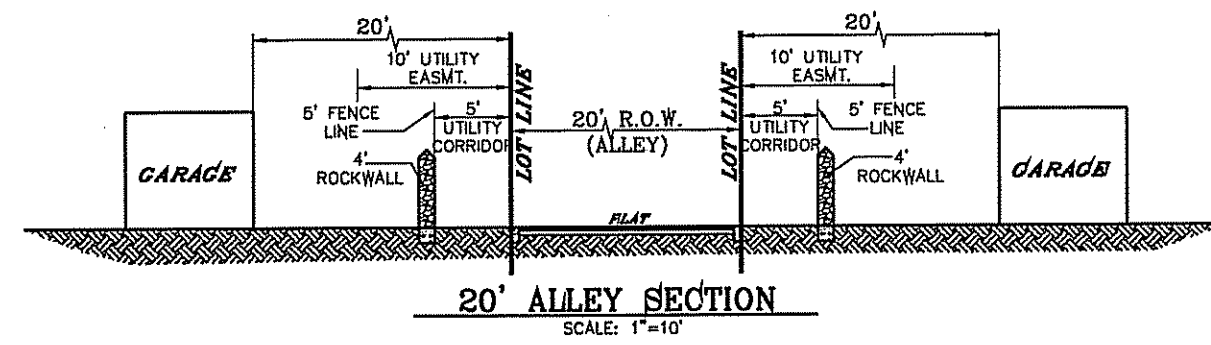


TRUNCATED TILES
SCALE: 1"=1'

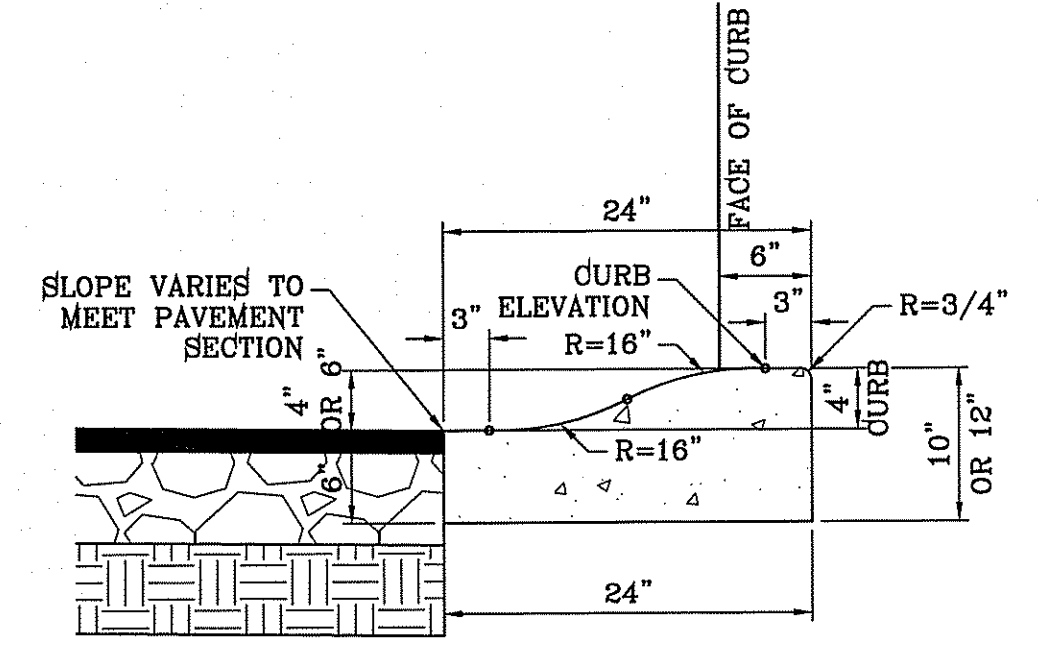


RAMP ON SIDEWALK AT CURB & GUTTER/ROLLED CURB
SCALE: 1"=10'

- NOTES:**
1. ALL RAMP 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

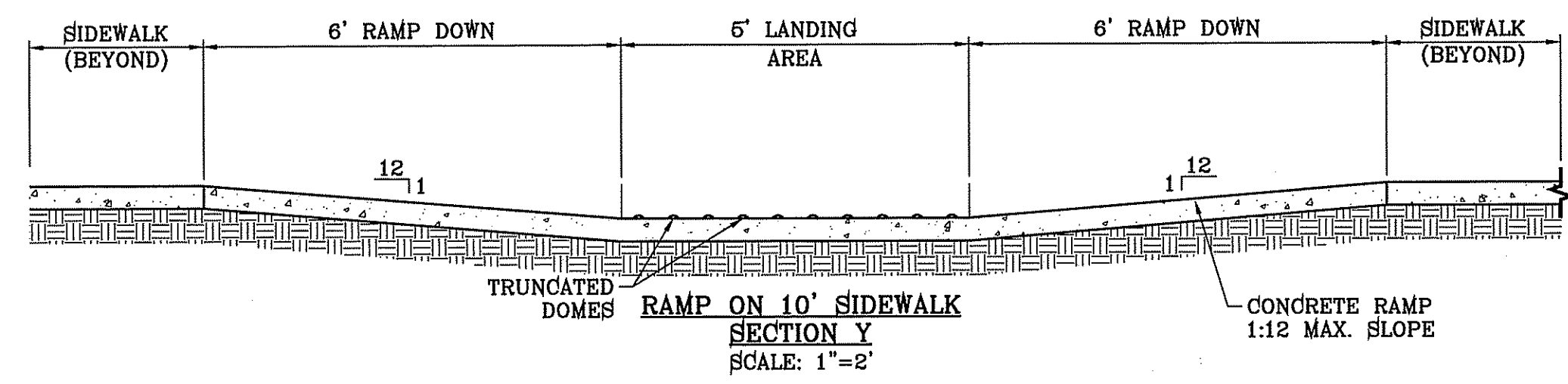


20' ALLEY SECTION
SCALE: 1"=10'

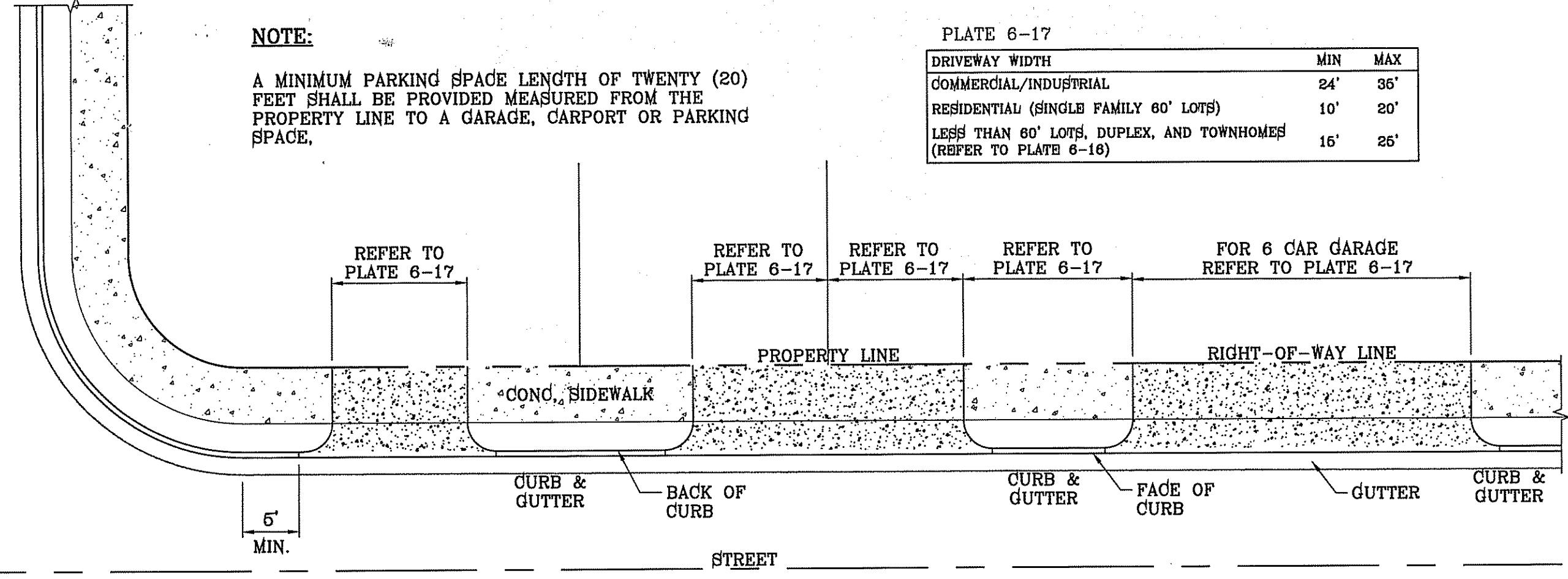


ROLLED CURB DETAIL
SCALE: 1"=1'

- 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 SCORED 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 PSI.
 5. EXPANSION JOINTS REQUIRED AT 6' O.C. WHEN FORMING FOR CURBS.



RAMP ON 10' SIDEWALK SECTION Y
SCALE: 1"=2'

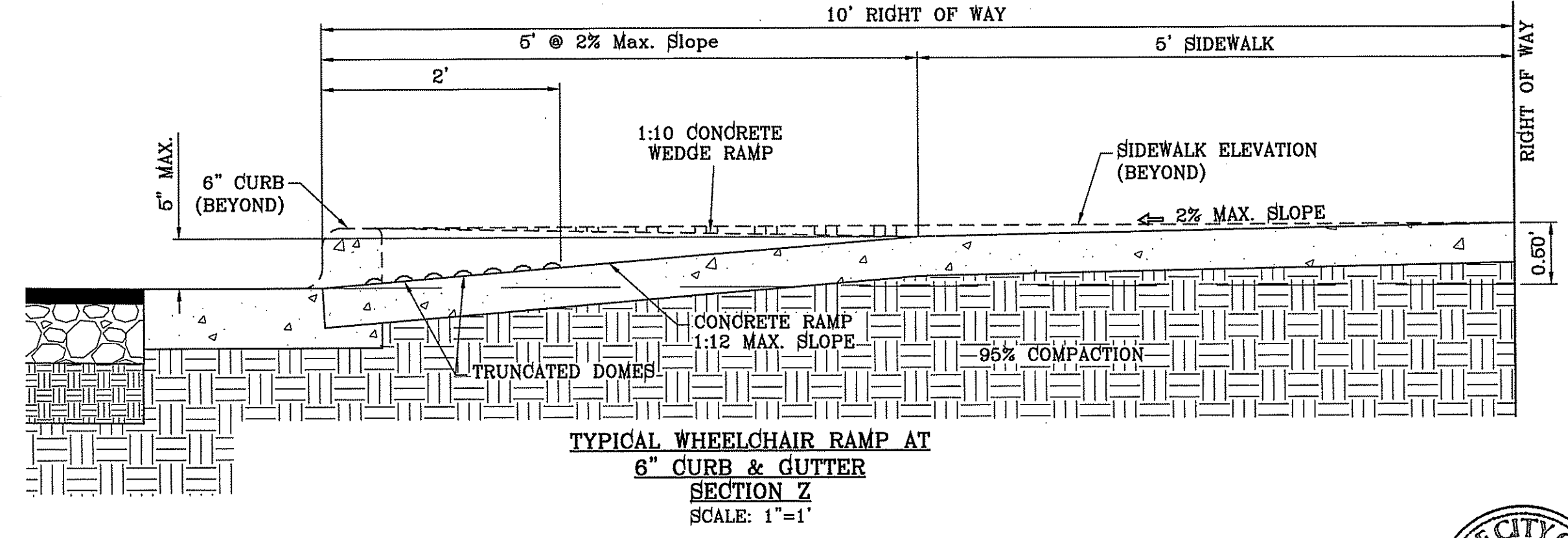


TYPICAL RESIDENTIAL DRIVEWAY WITH CURB & GUTTER
SCALE: 1"=10'

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.

PLATE 6-17

DRIVEWAY WIDTH	MIN	MAX
COMMERCIAL/INDUSTRIAL	24'	36'
RESIDENTIAL (SINGLE FAMILY 60' LOTS)	10'	20'
LESS THAN 60' LOTS, DUPLEX, AND TOWNHOMES (REFER TO PLATE 6-16)	16'	25'



TYPICAL WHEELCHAIR RAMP AT 6" CURB & GUTTER SECTION Z
SCALE: 1"=1'

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL AND JOHN HAYES ST. ELEVATION = 4021.28 CITY DATUM

DATE	REVISIONS

TERRA DEL ESTE UNIT SEVENTY FOUR

BEING FOR THE RECORD OF BLOCK 76, TRACT 10, TOWNSHIP 10S, RANGE 10E, COUNTY OF EL PASO, TEXAS. SURVEYED BY: Y.C. CONDE INC. DATE: MARCH 2016. CONTAINING: 80.037± ACRES

CONDE INC.
ENGINEERING / PLANNING / SURVEYING / GPS
6090 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0263
FAX: (915) 592-0266

DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

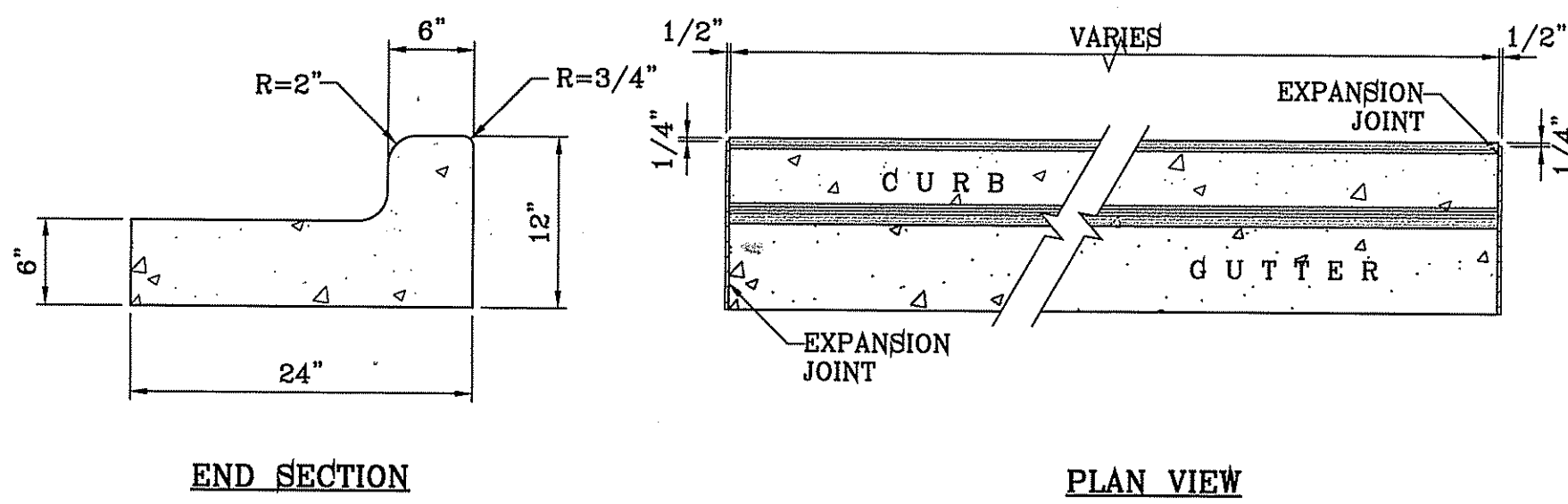
CONDE INC.
REGISTRATION No. F-2321

SHEET TITLE

STANDARD DETAILS

SHT 47 OF 53





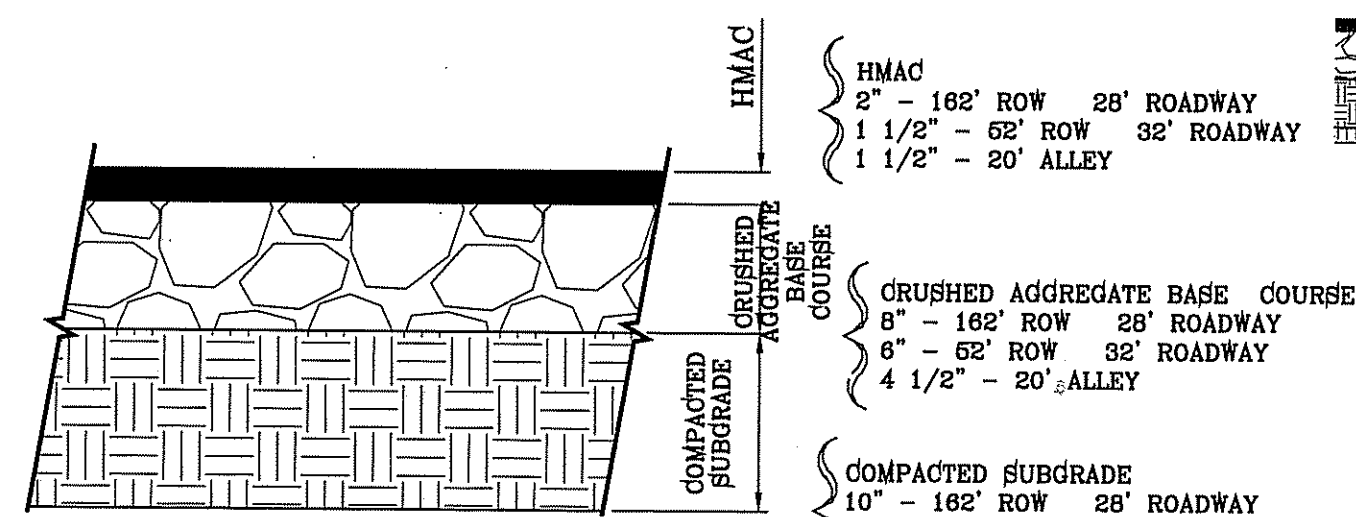
END SECTION

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 PSI.
5. EXPANSION JOINTS REQUIRED AT 5' O.C. WHEN FORMING FOR CURBS.

CURB & GUTTER DETAIL
SCALE: 1"=1'



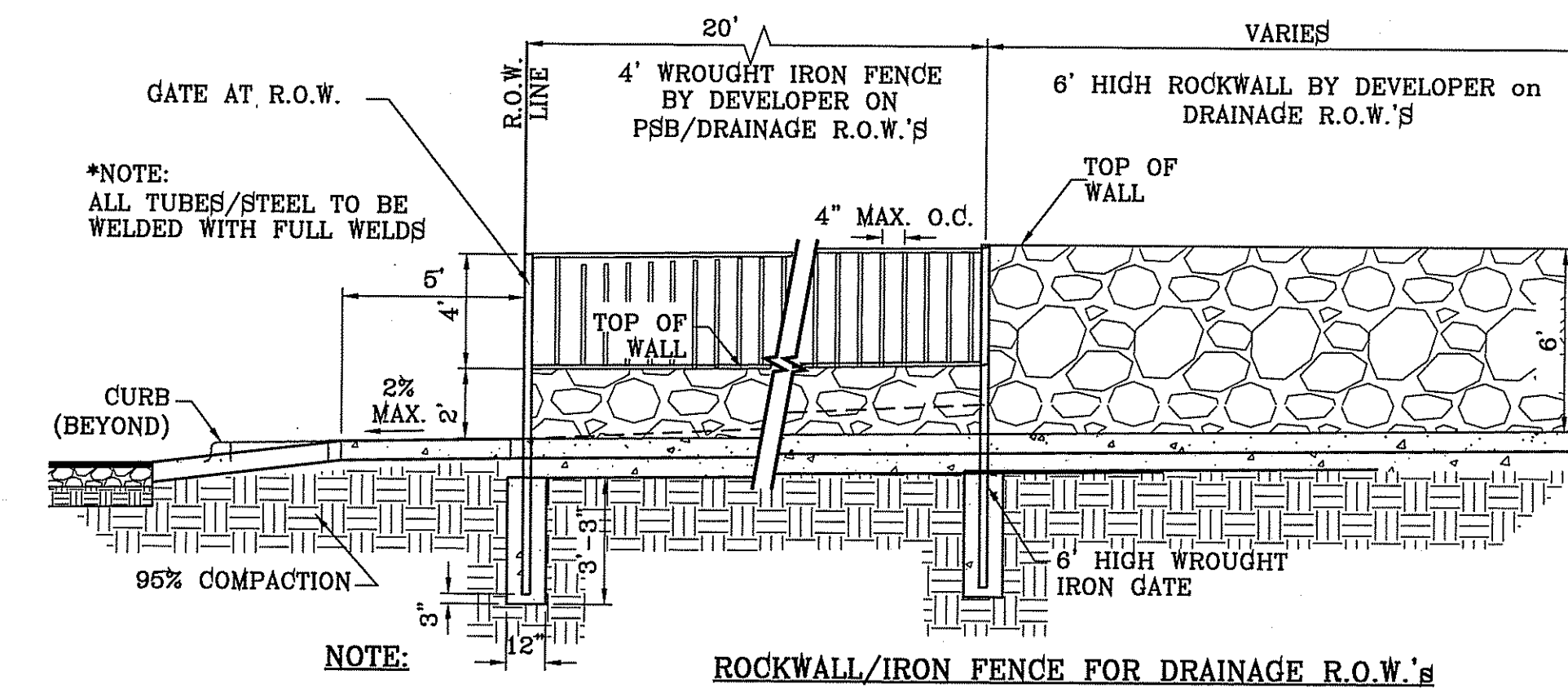
PAVEMENT SECTION DETAIL
SCALE: 1"=1'

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.
4. PRIME COAT TO BE 0.25 GAL. PER SQUARE YARD (MINIMUM COVERAGE) MC-70.
5. COMPACTION TESTS WHERE REQUIRED BY THE CITY ENGINEER MUST BE PAID FOR BY THE DEVELOPER.
6. 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.
7. STRICT VERTICAL CONTROL OF ALL CURB AND GUTTER ELEVATIONS WILL BE MAINTAINED. BLUE TOPPING WILL BE REQUIRED THROUGHOUT.
8. ALL PLANS MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF EL PASO SUBDIVISION DESIGN AND IMPROVEMENT STANDARDS.
9. HMAc. BASE, SUB BASE WILL BE IN ACCORDANCE WITH THE LATEST CITY OF EL PASO SPECIFICATIONS.
10. MINIMUM PAVEMENT DESIGN DETAILS ARE SHOWN. ACTUAL PAVEMENT DESIGN WILL BE DETERMINED BY: C.B.R.

TRENCHING

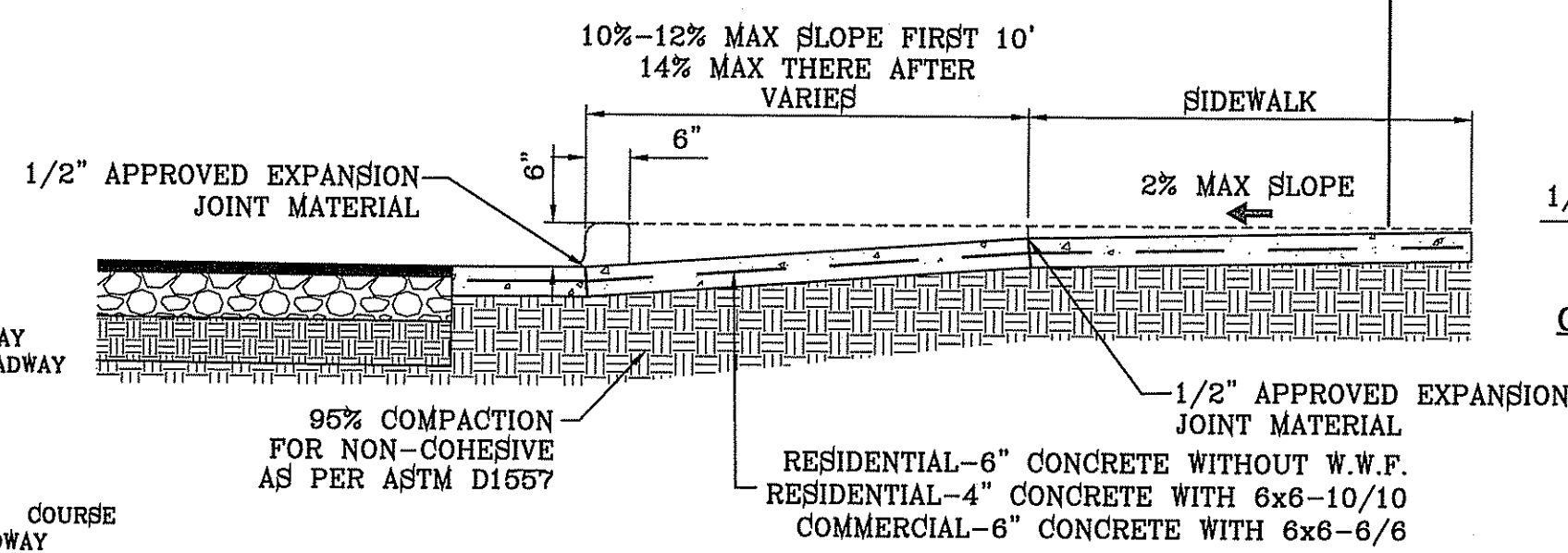
ALL TRENCHING SHALL BE DONE IN STRICT ACCORDANCE WITH OSHA-2226.



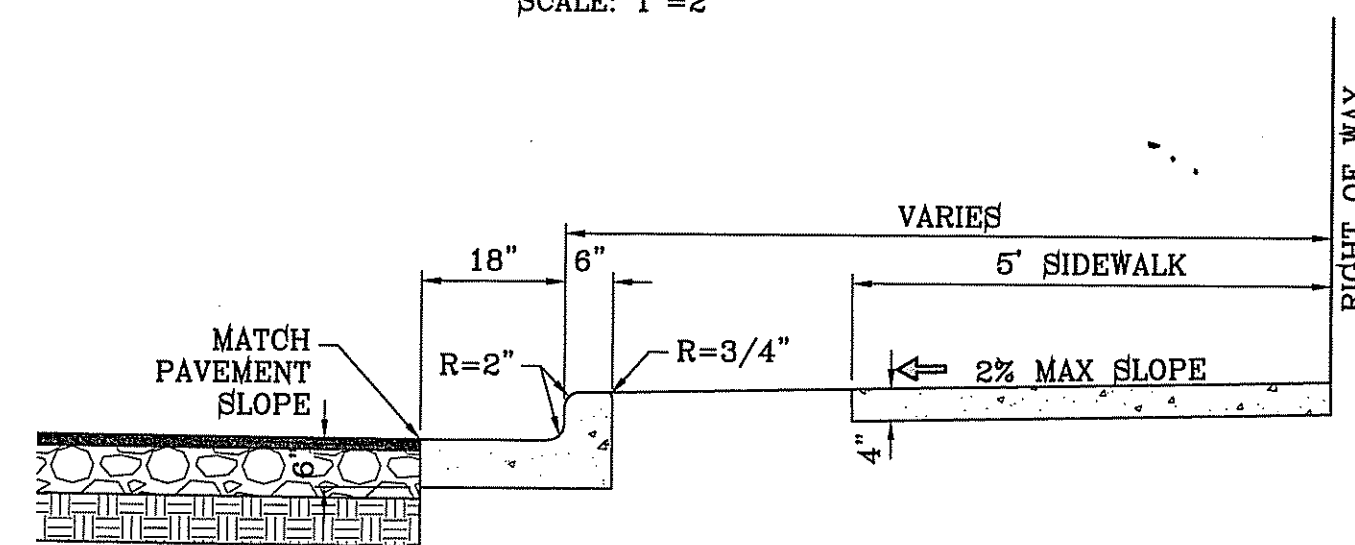
ROCKWALL/IRON FENCE FOR DRAINAGE R.O.W.'s
SCALE: 1"=4'

NOTE:
HMAc AND BASE COURSE THICKNESS AS PER CBR'S

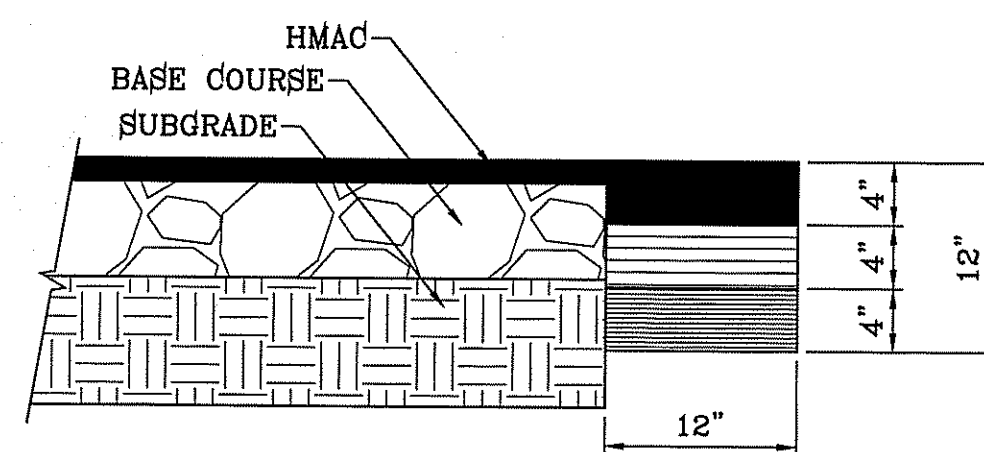
WHEELCHAIR RAMP AT 6" CURB & GUTTER SECTION W
SCALE: 1"=1'



RESIDENTIAL & COMMERCIAL DRIVEWAY SECTION
SCALE: 1"=2'



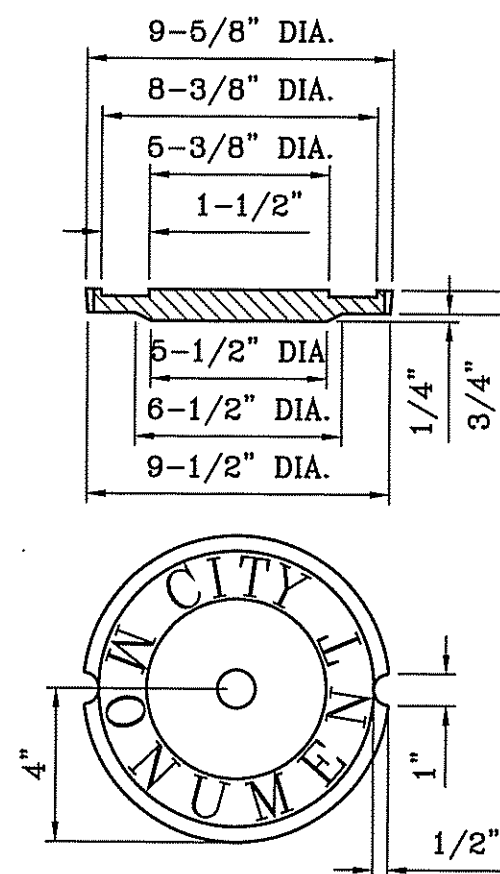
CURB & GUTTER AND SIDEWALK DETAIL
SCALE: 1"=2'



PAVEMENT TERMINUS
SCALE: 1"=1'

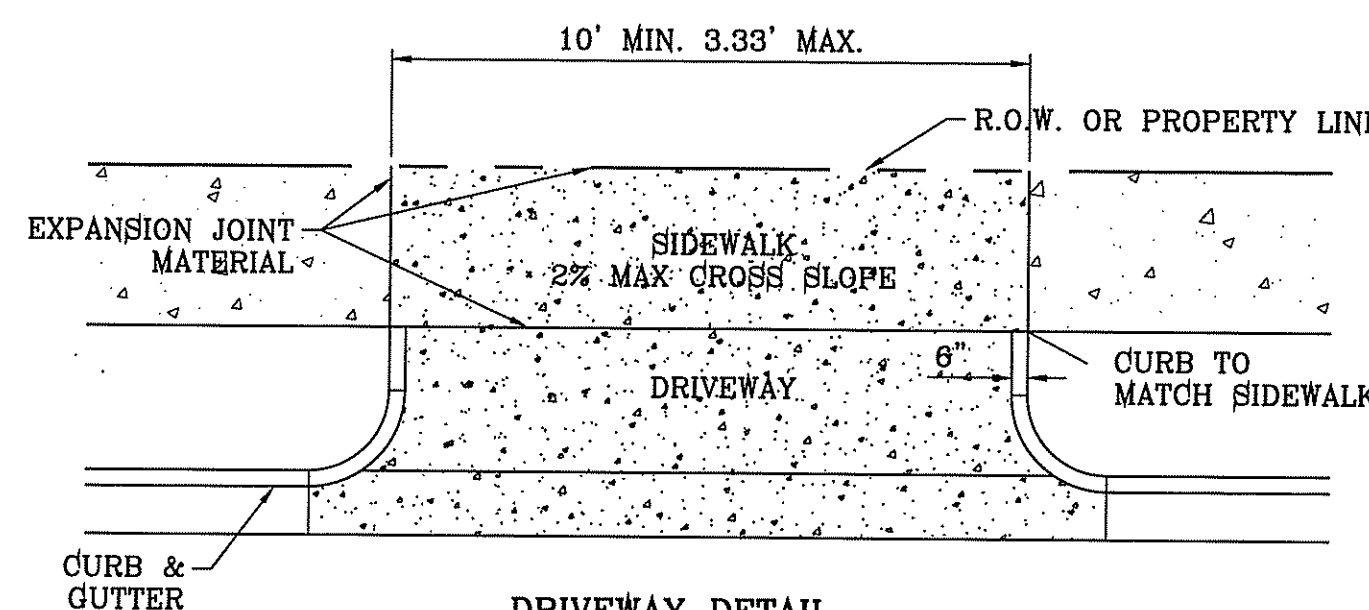
NOTE:

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.



COVER
SCALE: 1"=6'

COUNTERSUNK DETAIL
SCALE: 1"=3'



DRIVEWAY DETAIL
SCALE: 1"=6'

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.

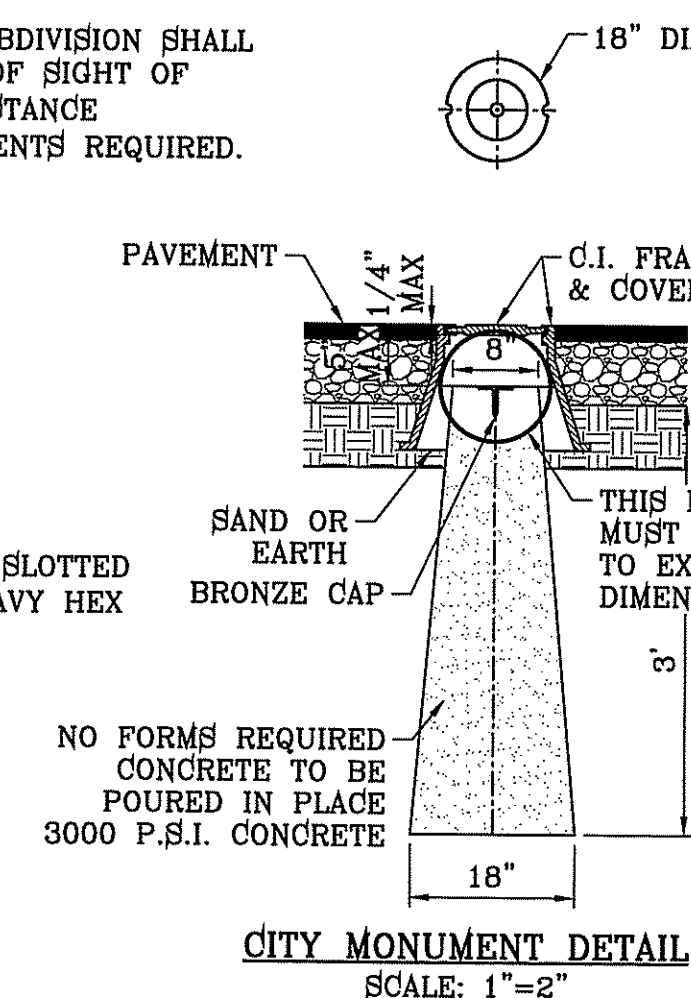
NUMBER AND LOCATIONS:

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

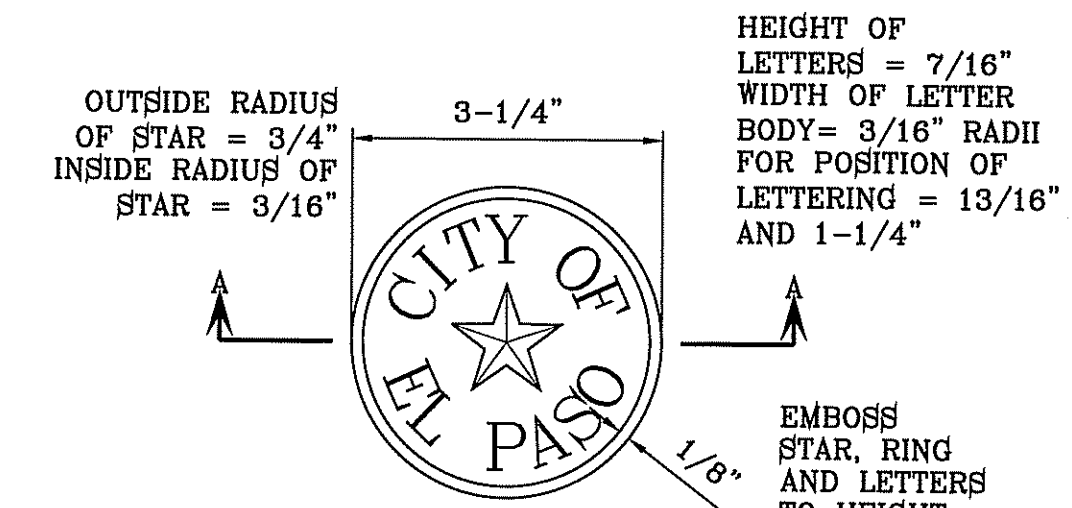
THE SIZE, TOPOGRAPHY AND LAYOUT OF THE SUBDIVISION SHALL GOVERN MONUMENT MUST BE WITHIN THE LINE OF SIGHT OF ANY OTHER MONUMENT (2000 FEET MAXIMUM DISTANCE BETWEEN MONUMENTS). THE NUMBER OF MONUMENTS REQUIRED.

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

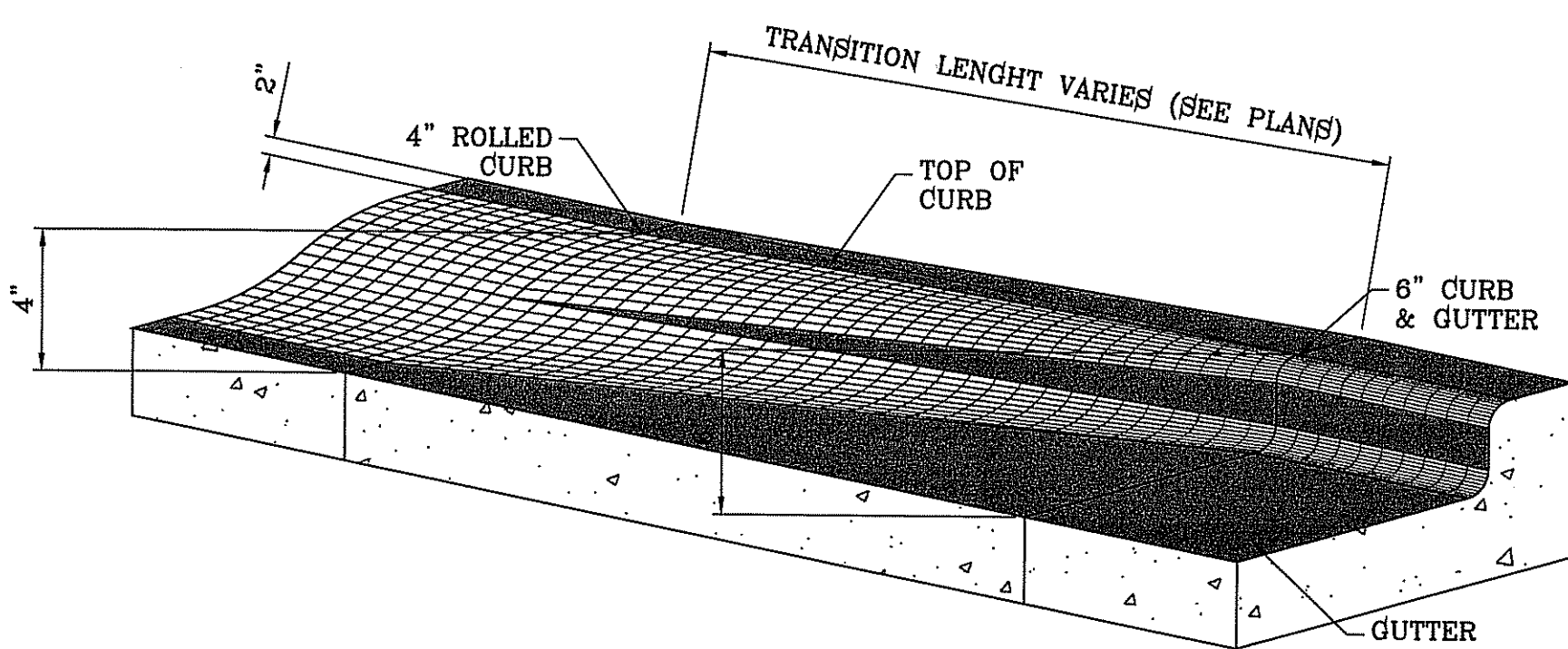
AT LEAST ONE (1) MONUMENT SHALL BE PLACED ON EACH HORIZONTAL CURVE. TWO SHALL BE PLACED IF THE POINT OF INTERSECTION (P.I.) OF THE TANGENTS LEADING INTO THE CURVE FALLS OUTSIDE OF CITY RIGHT-OF-WAY. MONUMENTS SHALL BE INSTALLED SO THAT ALL FRONT PROPERTY CORNERS OF ALL LOTS IN THE SUBDIVISION ARE WITHIN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



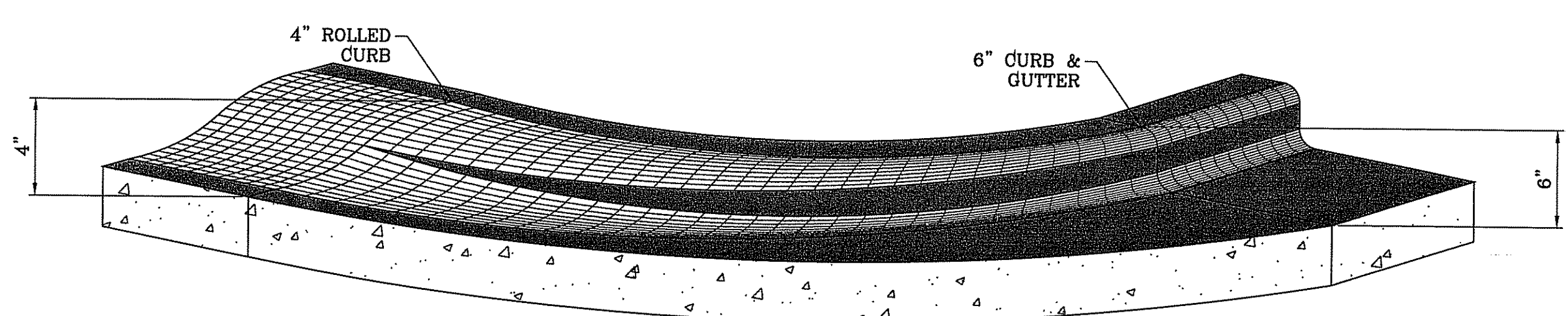
CITY MONUMENT DETAIL
SCALE: 1"=2'



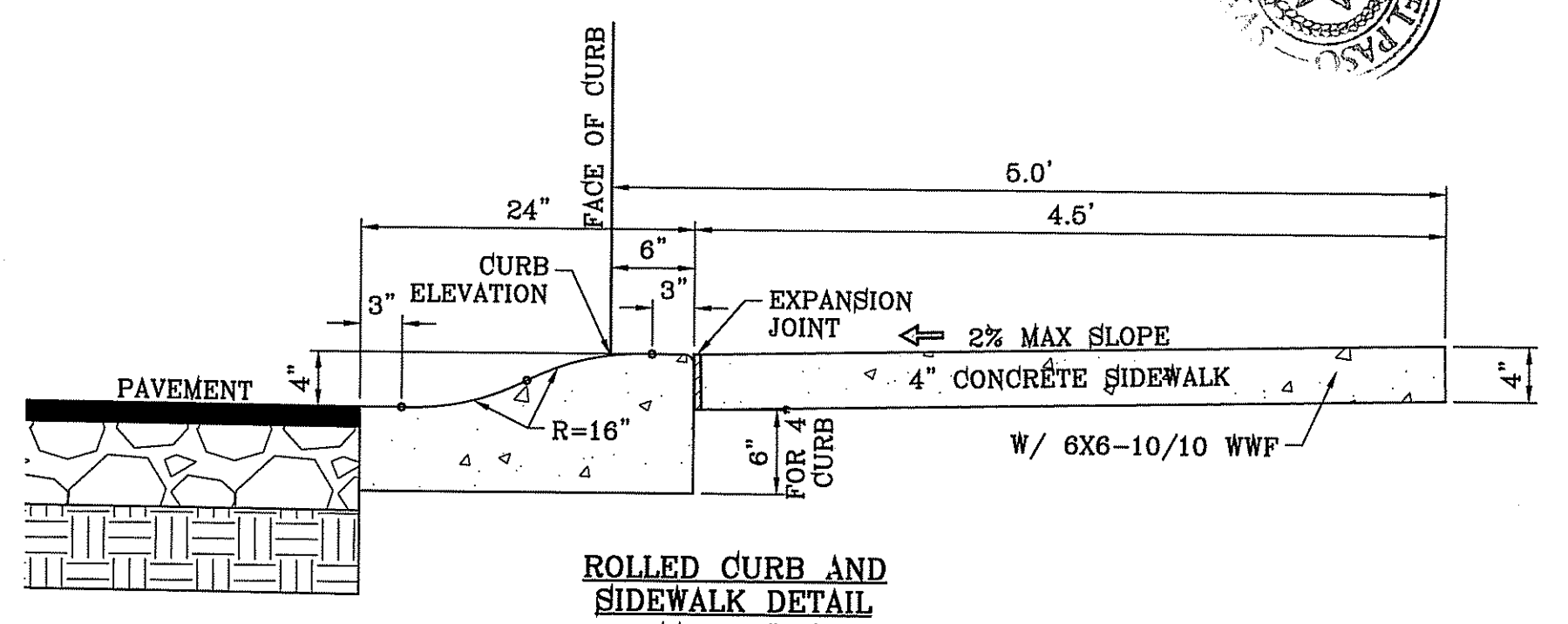
BRONZE MONUMENT CAP
SCALE: 1"=2'



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



CURB TRANSITION AT RETURNS
SCALE: 1"=1'



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

BY	
DATE	
REVISIONS	

TIERRA DEL ESTE UNIT SEVENTY FOUR
BEING PORTION OF SECTION 36, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. CONTAINING: 80.037± ACRES

ENGINEER'S SEAL
HORIZ: DATE: MARCH 2016
VERT: DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 713-41

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-2321

STANDARD DETAILS

FILE LOCATION S:_Subdivisions\TDE 74 DWG\STANDARD DETAILS PLOTTED ON Thursday, June 08, 2017 3:46:57 PM BY FELIX RODRIGUEZ

FILE LOCATION S:\Subdivisions\TDE 74\DWG\POND REVISED @ 24' depth PLOTTED ON Thursday, June 08, 2017 3:51:46 PM BY FELIX RODRIGUEZ

STAGE STORAGE TABLE			
ELEV.	AREA (sq. ft.)	CONIC TOTAL VOL. (ac. ft.)	CONIC TOTAL VOL. (ac. ft.)
3,993.00	41,034.02	N/A	0.00
3,994.00	43,720.44	0.97	0.97
3,995.00	46,541.12	1.04	2.01
3,996.00	49,430.36	1.10	3.11
3,997.00	52,388.21	1.17	4.28
3,998.00	55,414.70	1.24	5.52
3,999.00	58,509.85	1.31	6.82
4,000.00	61,673.63	1.38	8.20
4,001.00	64,906.00	1.45	9.66
4,002.00	68,206.65	1.53	11.18
4,003.00	71,576.15	1.60	12.79
4,004.00	75,014.49	1.68	14.47
4,005.00	78,521.38	1.76	16.23
4,006.00	82,096.82	1.84	18.08
4,007.00	85,740.82	1.93	20.00
4,008.00	89,452.23	2.01	22.01
4,009.00	93,231.08	2.10	24.11
4,010.00	97,078.13	2.18	26.29
4,011.00	100,993.39	2.27	28.57
4,012.00	104,976.81	2.36	30.93
4,013.00	109,028.37	2.46	33.39
4,014.00	113,148.08	2.55	35.94
4,015.00	117,335.84	2.65	38.58
4,016.00	121,591.71	2.74	41.33
4,017.00	127,603.94	2.86	44.19

WATERSHED-POND			
$QT = \frac{A \cdot R \cdot C}{12} = AC\text{-FT}$			
POND CALC.			
$QT = ACR/12$			
A=TOTAL AREA IN ACRES			
R=RAINFALL IN INCHES			
C=RUNOFF FACTOR			
RESIDENTIAL- & POND	53.71(4)	0.60	10.74 ac-ft
	12		
EXISTING DEVELOPMENT-	12.27(4)	0.90	3.68 ac-ft
	12		
OFFSITE FUTURE DEVELOPMENT-	85.71(4)	0.60	17.14 ac-ft
	12		
			31.57 ac-ft
SILT & DEBRIS =			1.82
Qreq (TOTAL) =			33.39
Qcap (TOTAL) =			44.19
100 YEAR HW ELEVATION =			4012.26

NOTES FOR GATE:

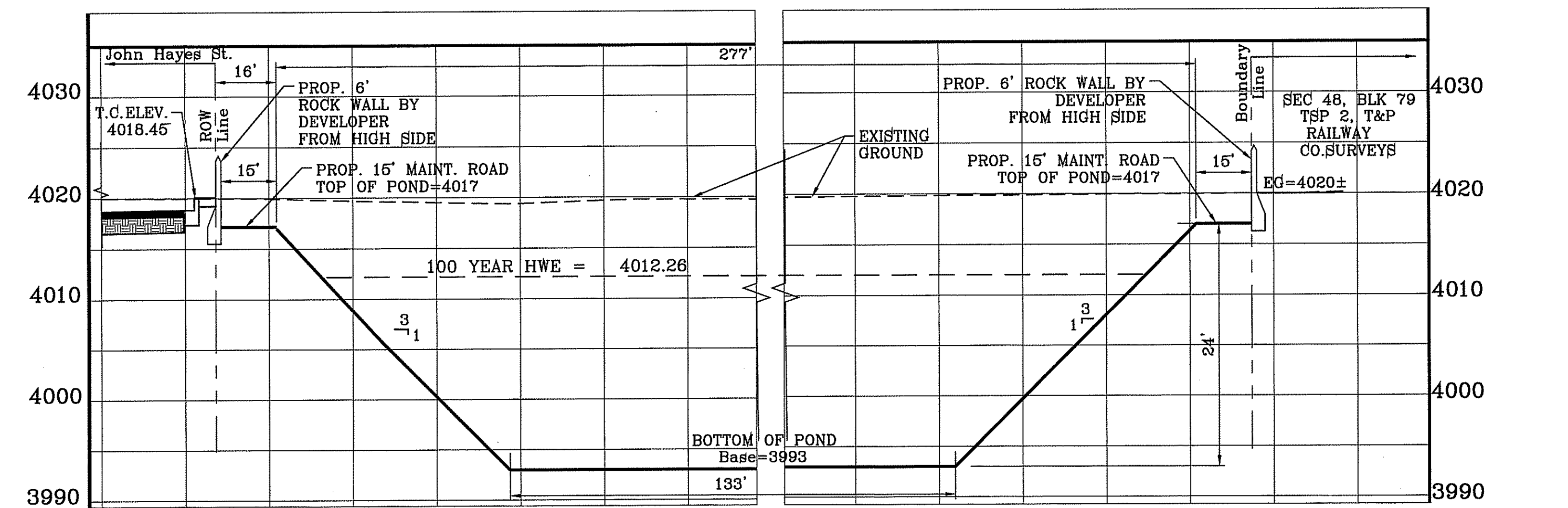
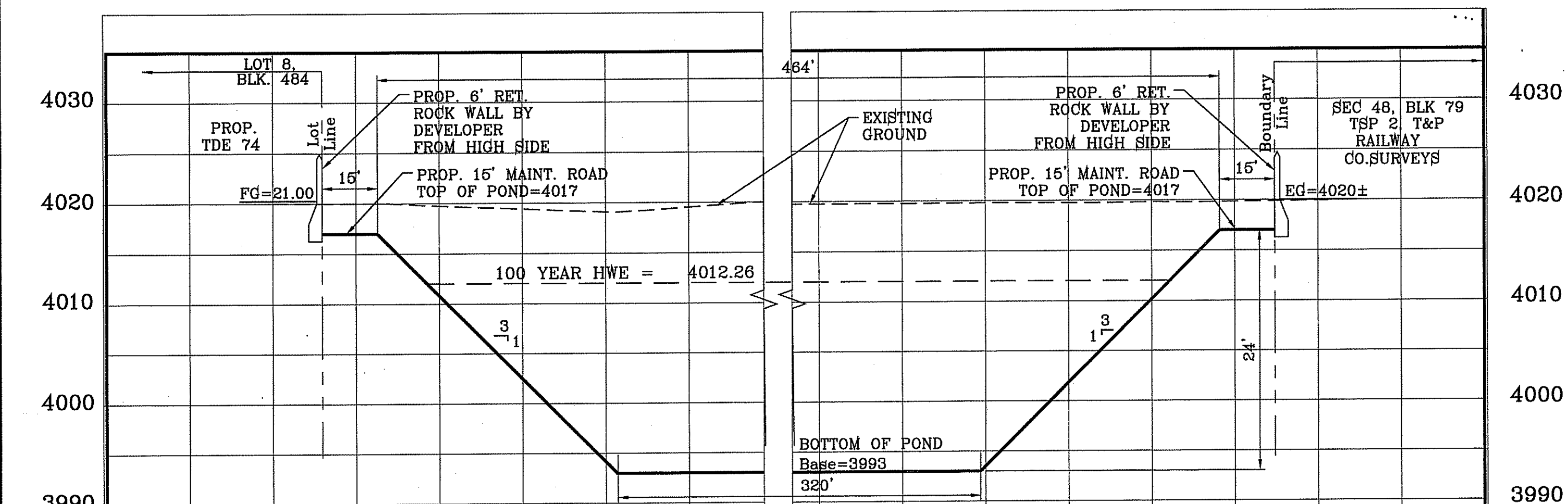
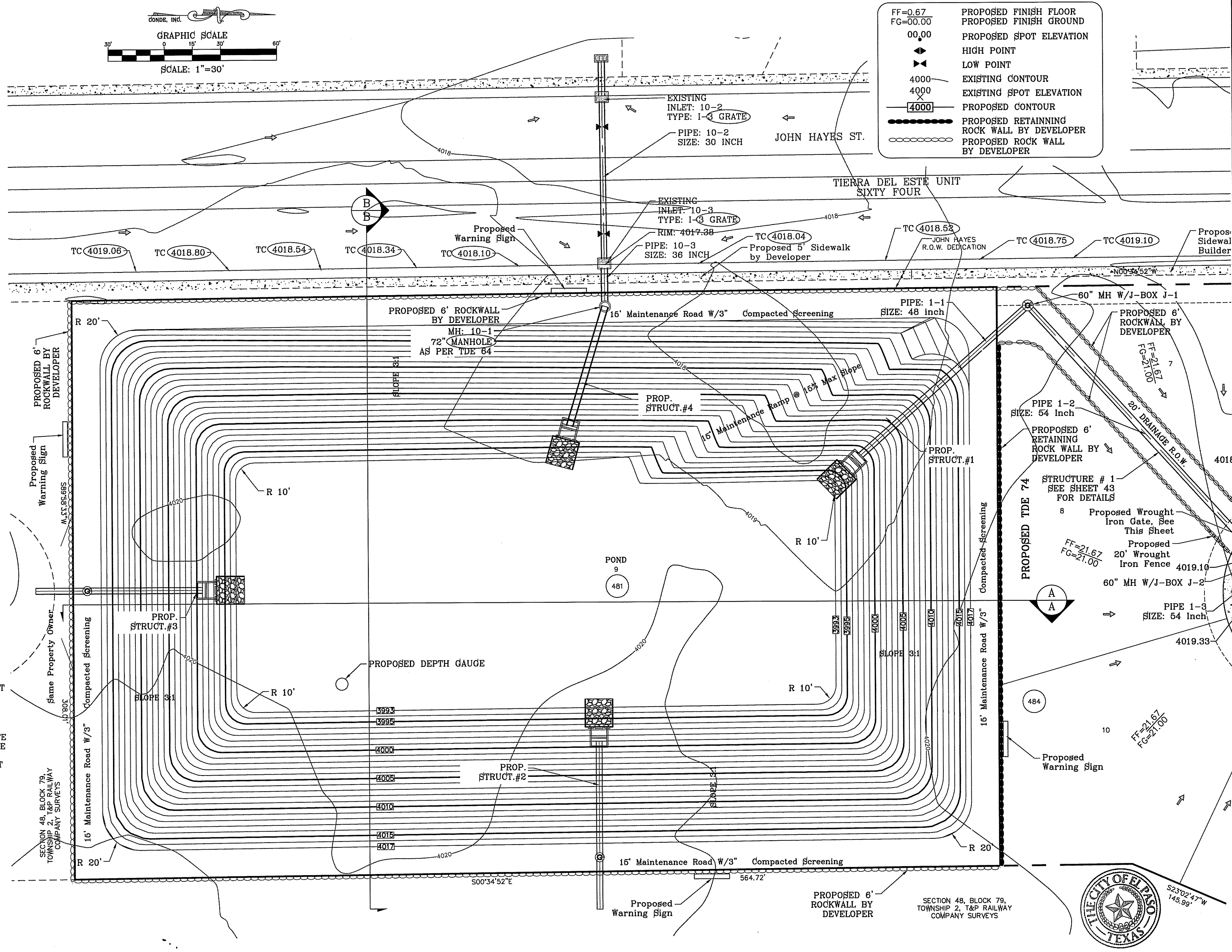
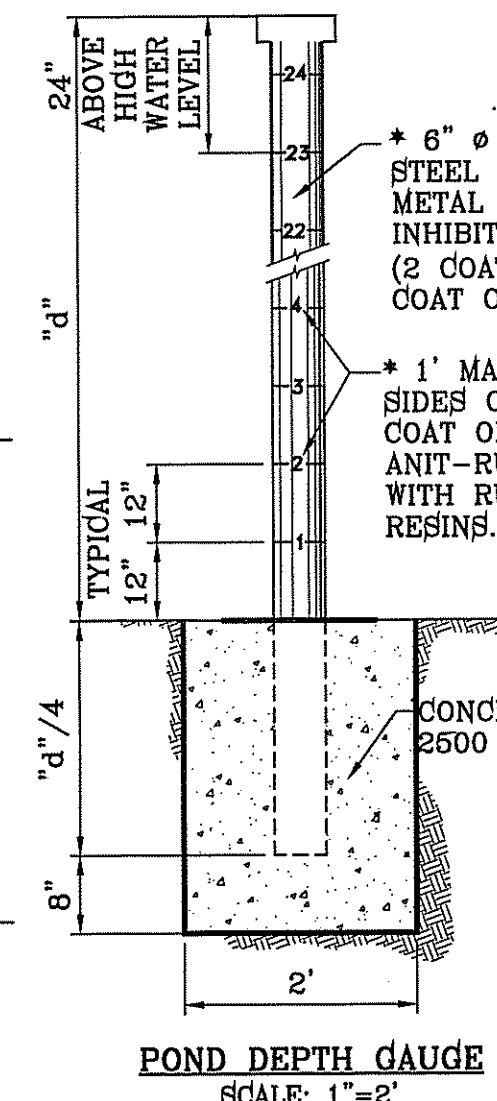
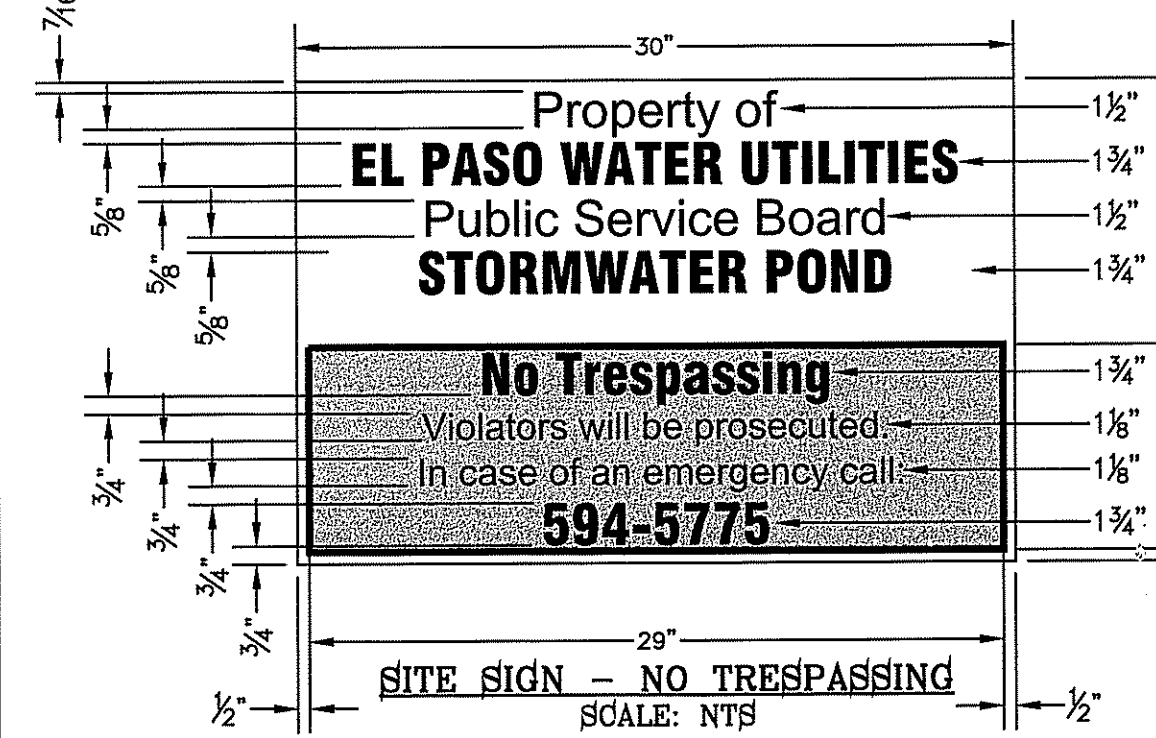
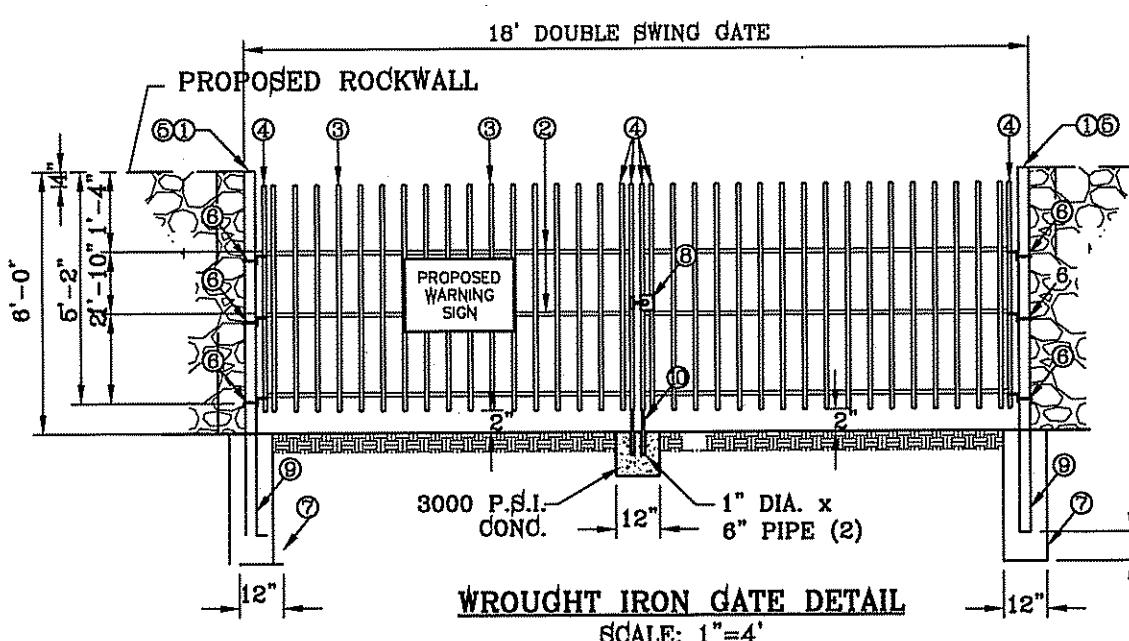
- 3"x3"x3/16" SQUARE STEEL TUBING
- 2"x1"x1/4 GA. RECTANGULAR STEEL TUBING
- 1 1/2"x1/2"x1/8 GA. RECTANGULAR STEEL TUBING
- 2"x1"x1/8 GA. RECTANGULAR STEEL TUBING
- FLAT TOP POLYVINYL CAP
- BOLT HOOK AND STRAP HINGE
- 1'x3' DEEP 8000 PSI CONCRETE POST FOOTING
- DOUBLE GATE HEAVY DUTY INDUSTRIAL LATCH W/PAD LOCK
- 6"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)

NOTES FOR WARNING SIGN:

- SIGN MATERIAL TO BE 16 GAUGE GALVANIZED SHEET METAL.
- TOP PART OF SIGN SHALL SHOW BLACK LETTERS ON A WHITE BACKGROUND.
- BOTTOM PART OF SIGN SHALL SHOW WHITE LETTERS ON A BLACK BACKGROUND.

NOTES FOR POND GAUGE:

- CONSULT WITH PAINT MANUFACTURER FOR PRODUCTS THAT CAN SUSTAIN LONG PERIODS OF MOISTURE.
- "d" = DEPTH



SECTION A
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'

SECTION B
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'

TIERRA DEL ESTE UNIT SEVENTY FOUR

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST.
ELEVATION = 4021.28 NAVD83 DATUM

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, T&P AND RAILWAY COMPANY SURVEYS, CITY OF EL PASO, TEXAS
CONTAINING: 80,037 ± ACRES

SCALE
HORIZ: 1" = 30'
VERT: 1" = 10'
DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: Y.C.
CHECKED BY: Y.C.
JOB NO.: 713-41

CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
680 SUBEY DE SITE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

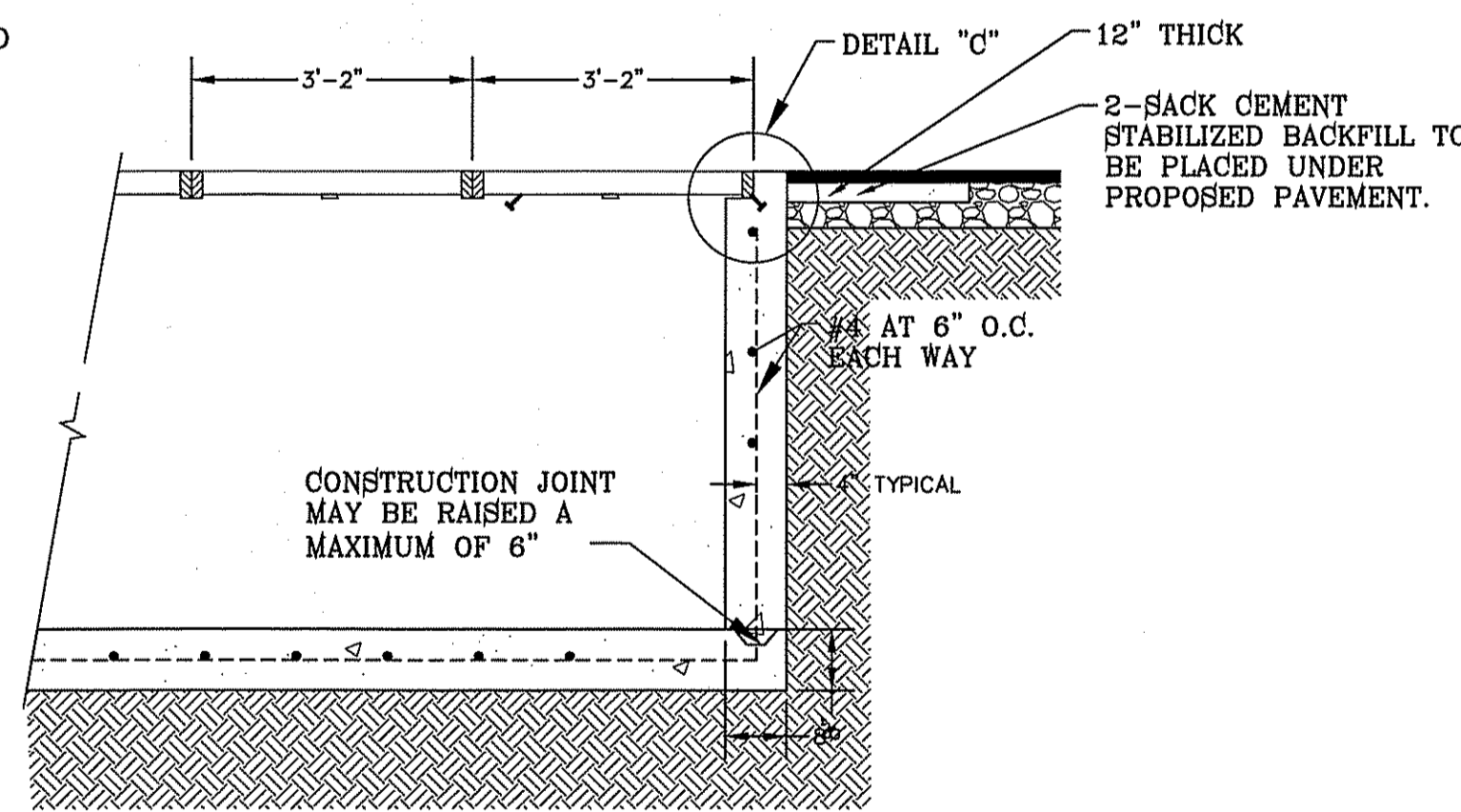
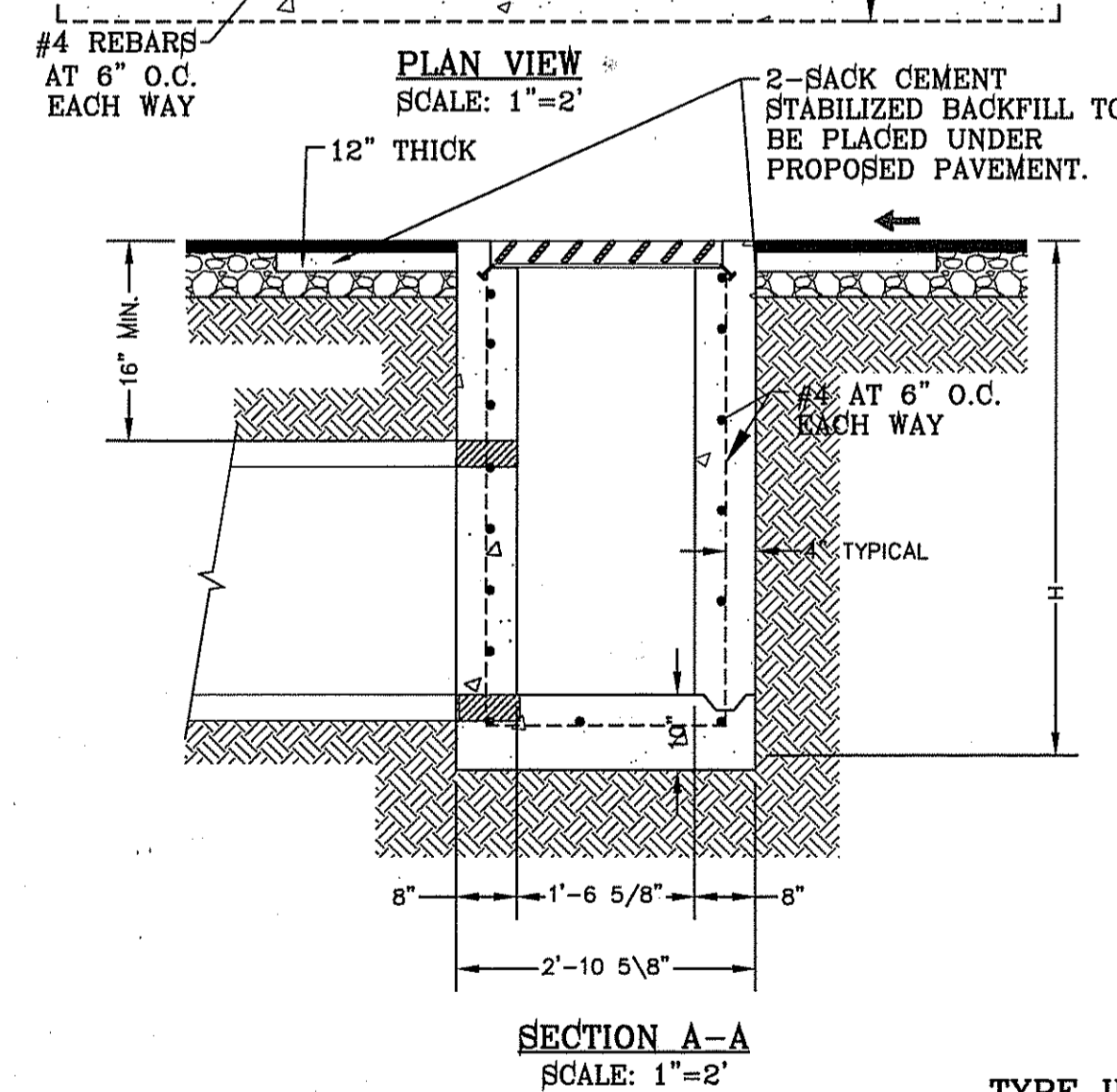
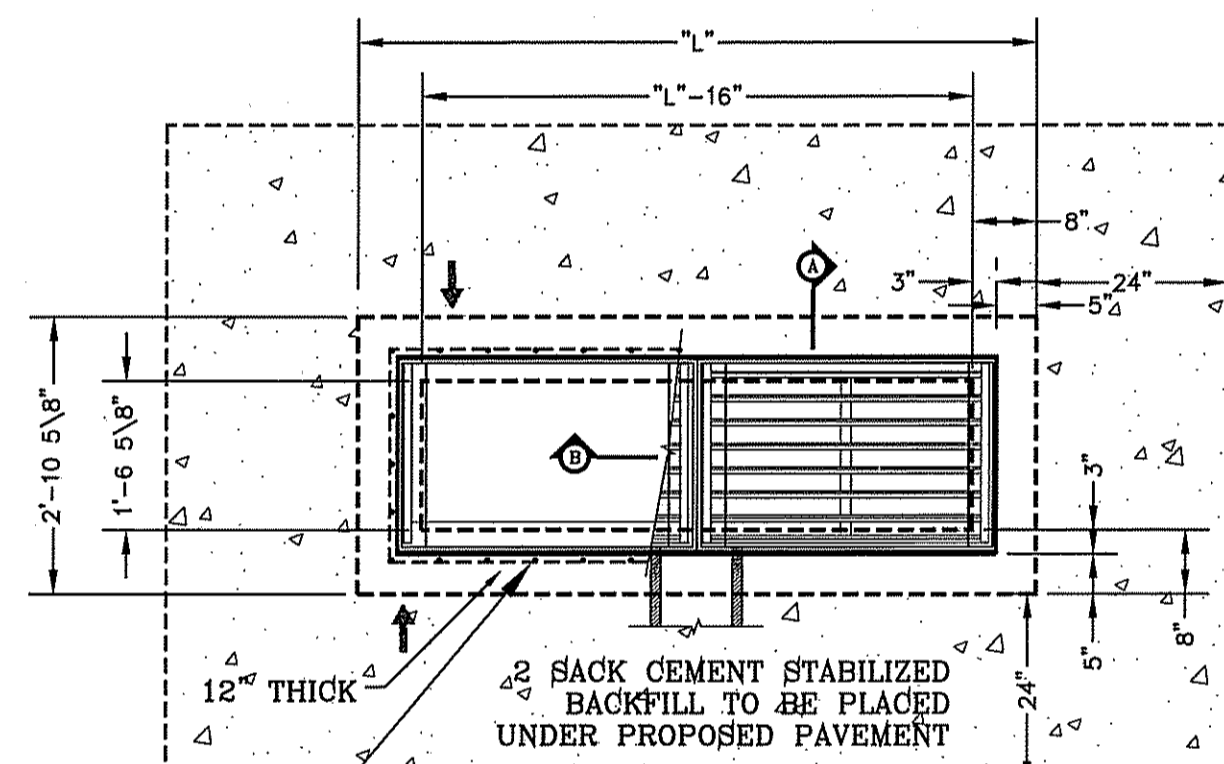
SHEET TITLE
PROPOSED POND WITH SECTIONS

SHT 49 OF 53

FILE LOCATION E:_Subdivisions\TDE 74\DWG\DRAINAGE STRUCTURES DETAILS PLOTTED ON Thursday, June 08, 2017 3:53:38 PM BY FELIX RODRIGUEZ

THRUST BLOCK DIMENSION CALCULATIONS (NEED DATA IN YELLOW)

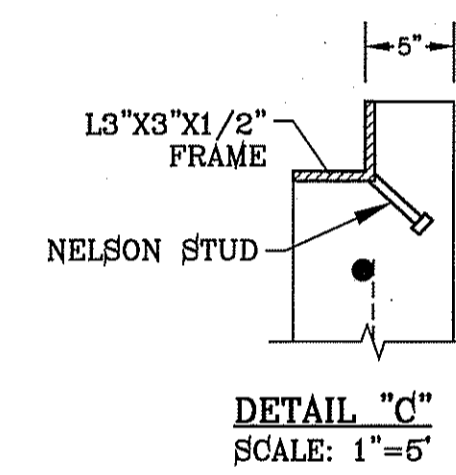
DATA INPUT FROM STROMCAD & STRUCTURES										THRUST BLOCK DIMENSIONS							
Struct. no.	Pipe Size	CFS (Total)	Velocity (f)	Depth (d)	s	Frout	W/D (from abut.)	W	H (3/4)	L (4/3)	A (1/2)	B (3/8)	C (1/2)	D (1/8)	E & T (1/12)	F (1/12)	
1	48	120.19	9.06	1.38	32.2	1.434	3.00	4'-10"	3'-7 1/2"	6'-0 1/4"	2'-0"	1'-9 3/4"	2'-0"	0'-9 3/4"	0'-4 3/4"	0'-4 3/4"	
2	36	82.32	11.65	1.01	32.2	2.043	4.3	4'-4"	3'-3"	6'-9 1/2"	2'-2"	1'-7 1/2"	2'-2"	0'-8 3/4"	0'-4 1/4"	0'-4 1/4"	
3	30	60.01	12.23	0.91	32.2	2.269	4.6	4'-2 1/4"	3'-1 3/4"	5'-7"	2'-1"	1'-8 3/4"	2'-1"	0'-8 1/4"	0'-4 1/4"	0'-4 1/4"	
4	30	12.74	4.03	0.42	32.2	1.098	4.15	1'-9"	1'-8 3/4"	2'-4"	0'-10 1/2"	0'-7 3/4"	0'-10 1/2"	0'-3 1/2"	0'-1 3/4"	0'-1 3/4"	



TYPE II INLET MODIFIED

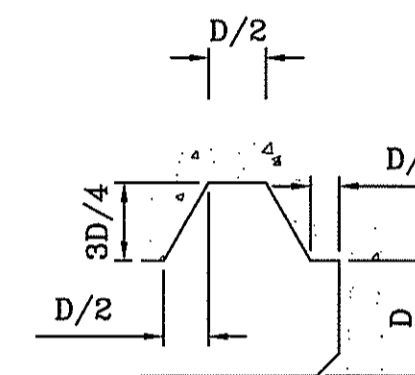
SECTION B-B SCALE: 1"=2'

SECTION A-A SCALE: 1"=2'

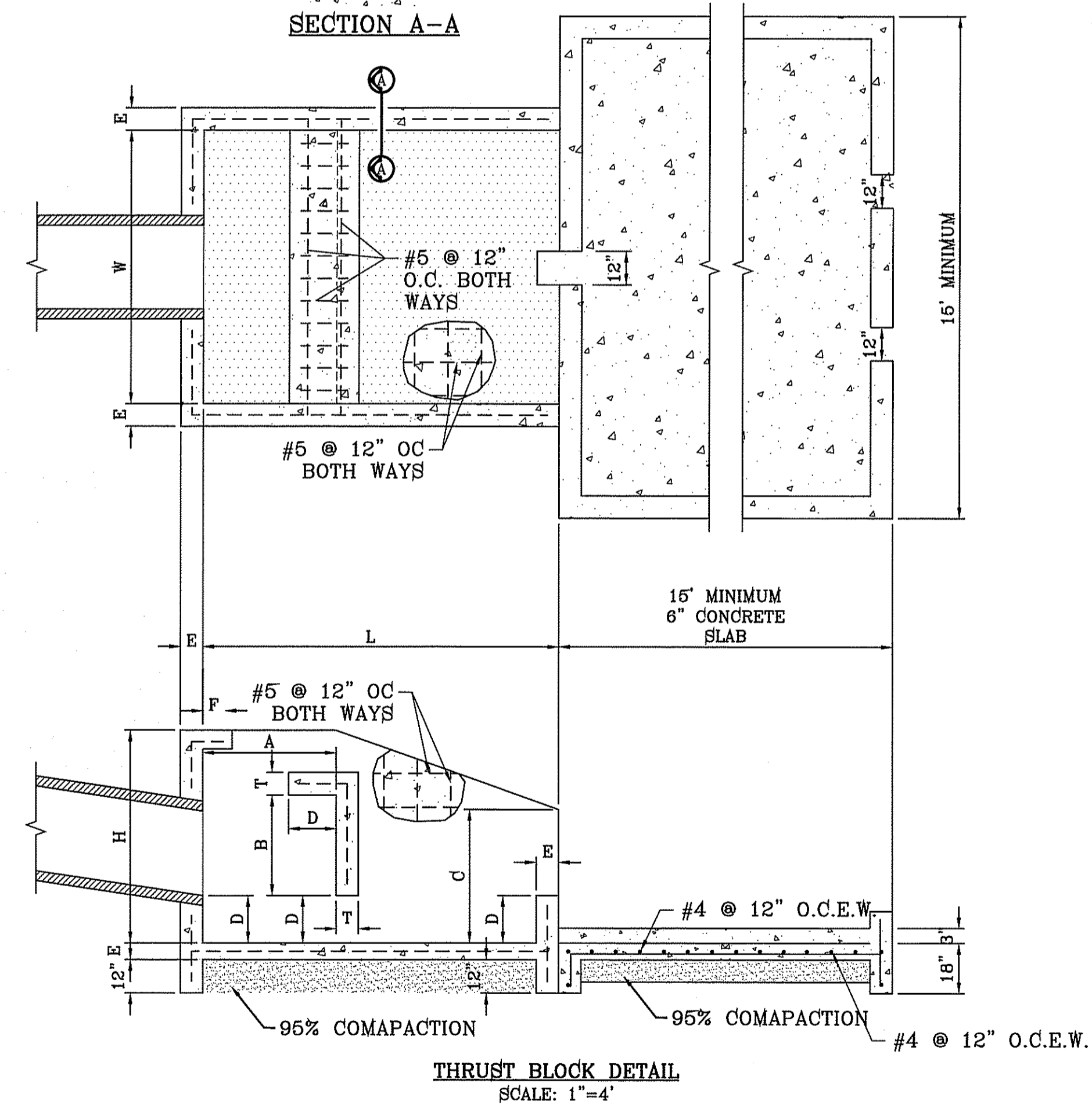


No. OF GRATES	"L"
2	7'-1"
3	10'-2"
4	13'-3"
5	16'-4"
11	31'-3 7/8"

- NOTES:
- H=20' MAXIMUM
 - CONCRETE TO BE 3000 PSI MIN. CORE TEST @ 28 DAYS.
 - GRATE TO BE PERPENDICULAR TO TRAFFIC.



SECTION A-A



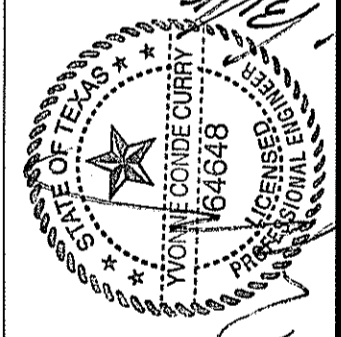
THRUST BLOCK DETAIL SCALE: 1"=4'



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.28CITY DATUM

PROJECT NAME
TIERRA DEL ESTE UNIT SEVENTY FOUR
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, TEXAS CONTAINING: 60.6572 ACRES

SCALE
HORIZ. AS SHOWN
VERT. DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.E.
CHECKED BY: Y.C.
JOB NO.: 713-41



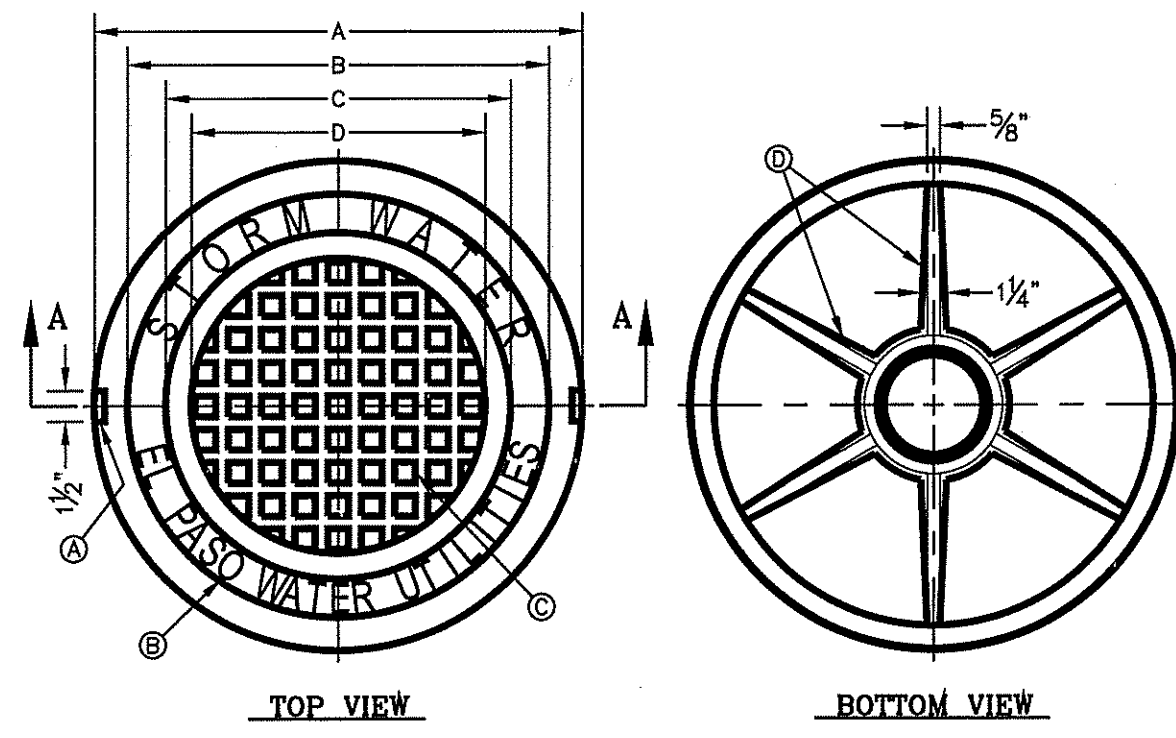
CONDE INC.
ENGINEERING / PLANNING / SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286



SHEET TITLE

DRAINAGE STRUCTURES DETAILS

FILE LOCATION: \\Subdivisions\TDE 74 DWG\DRAINAGE STRUCTURES DETAILS PLOTTED ON Thursday, August 17, 2017 11:48:30 AM BY FELIX RODRIGUEZ

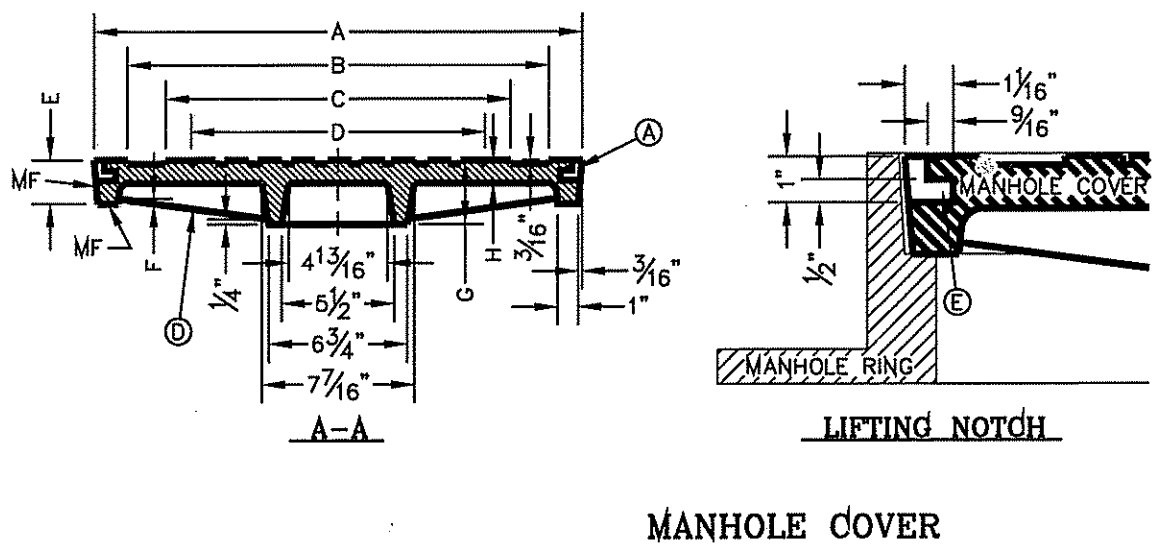


GENERAL NOTES:
 1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 4. AS-CAST DIMENSIONS MAY VARY 1/8" ± / PER FOOT (AASHTO M306-07).
 5. WEIGHT MAY VARY 6% ± (AASHTO M306-07).
 6. SHADED DIMENSIONS IN TABLE FOR REFERENCE ONLY. SOURCE: CITY OF EL PASO DESIGN STANDARDS FOR CONSTRUCTION, DETAIL 2-17.

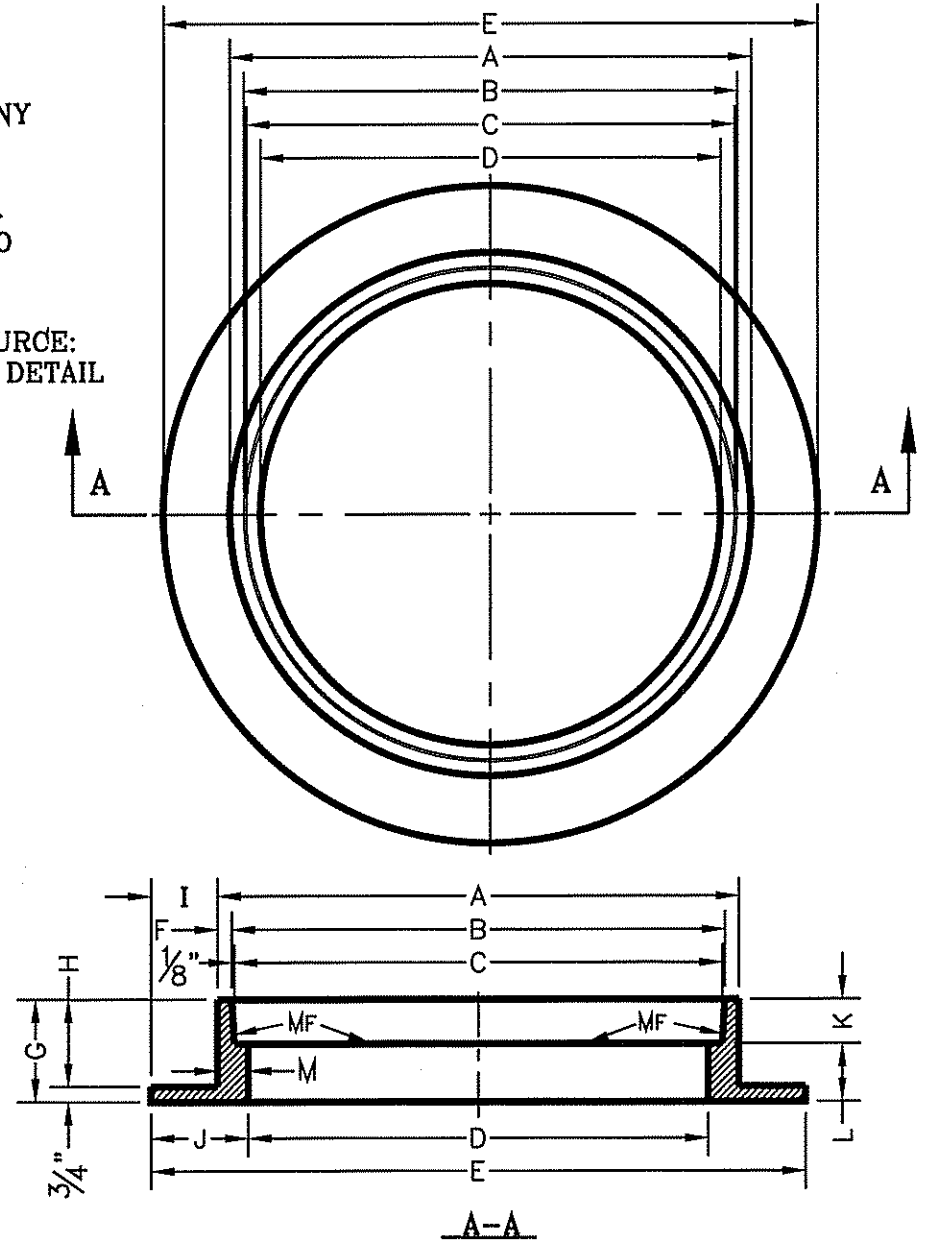
CONSTRUCTION KEY NOTES:
 A. LIFTING NOTCH.
 B. 3/8" RAISED LETTERING.
 C. 1" SQUARES (3/8" TALL) WITH 1/2" SPACE BETWEEN.
 D. REINFORCING RIBS.
 E. SLOT.

SEE NOTE 6

MANHOLE COVER	MANHOLE - ALL TYPES	MANHOLE TYPE 48	MANHOLE TYPE 72
A	31 3/8"	22 3/4"	32 3/4"
B	28 1/2"	20 3/4"	29 3/4"
C	24 3/4"	18 1/2"	24 3/4"
D	21 1/8"	14 3/4"	21 1/8"
E	2 1/2"	3"	3"
F	1/2"	1"	1"
G	3 1/2"	1"	1"
H	1 1/2"	1"	1"
WEIGHT	265 lbs.	175 lbs.	310 lbs.



MANHOLE COVER



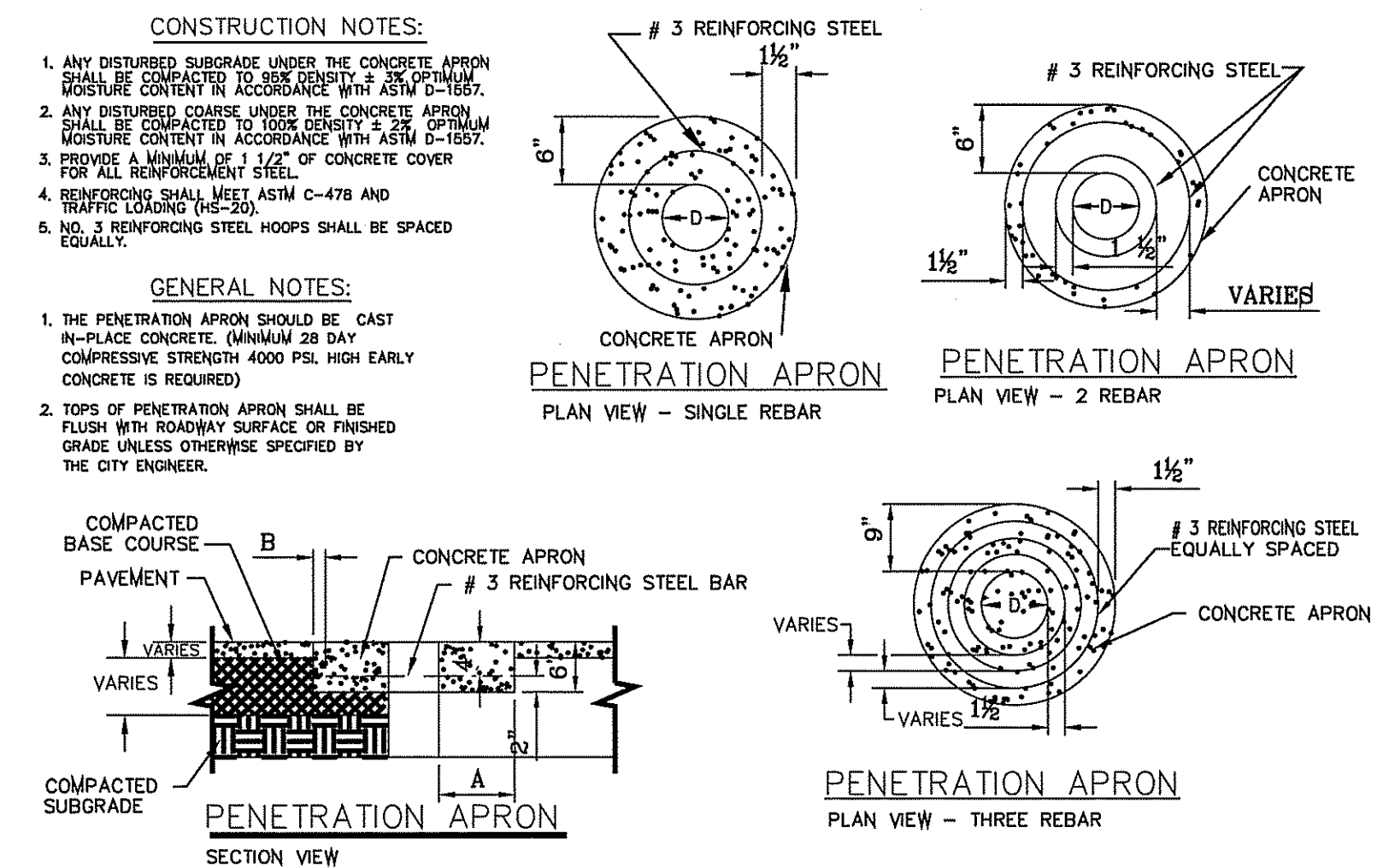
MANHOLE RING

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 6% ± (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

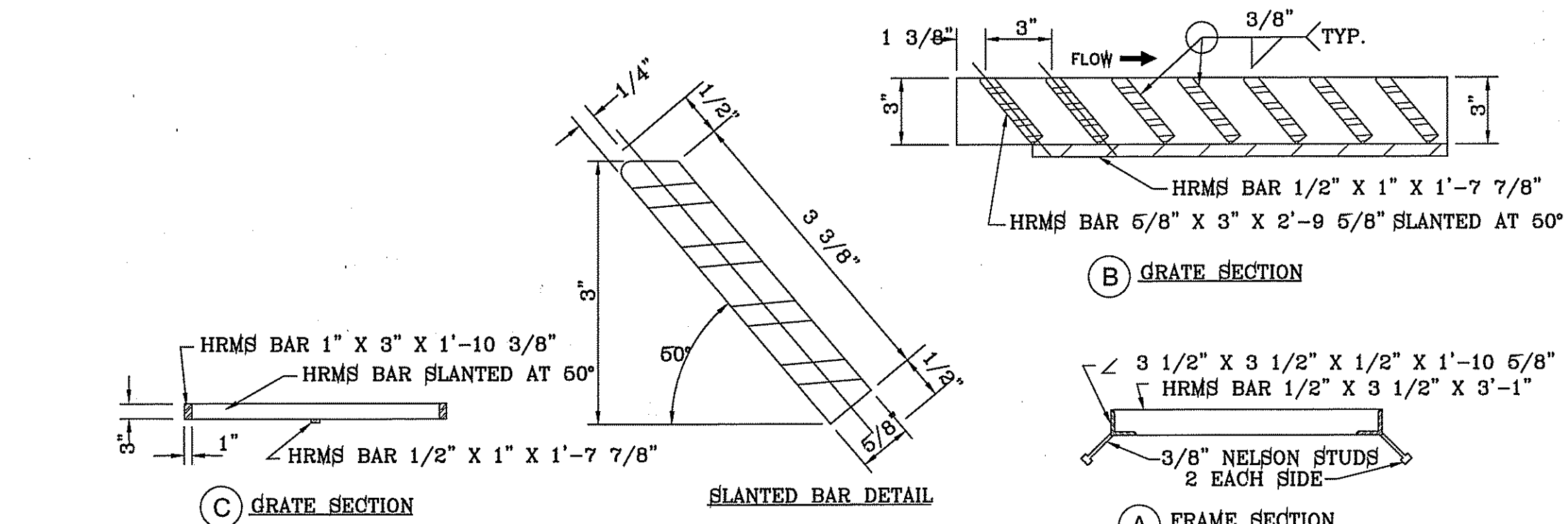
MANHOLE RING	MANHOLE - ALL TYPES	MANHOLE TYPE 48	MANHOLE TYPE 72
A	33"	22 3/4"	32 3/4"
B	31 3/4"	21 3/4"	31 3/4"
C	31 1/2"	21 3/4"	31 1/2"
D	30"	22 3/4"	30"
E	39 1/2"	34 1/2"	42"
F	9"	10"	10"
G	5"	6"	6"
H	4 1/2"	5 1/2"	5 1/2"
I	3 1/2"	4 1/2"	4 1/2"
J	4 3/4"	6"	6"
K	2 3/4"	3 1/2"	3 1/2"
L	2 3/8"	2 3/8"	2 3/8"
M	1 1/2"	1 1/2"	1 1/2"
WEIGHT	220 lbs.	165 lbs.	225 lbs.

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



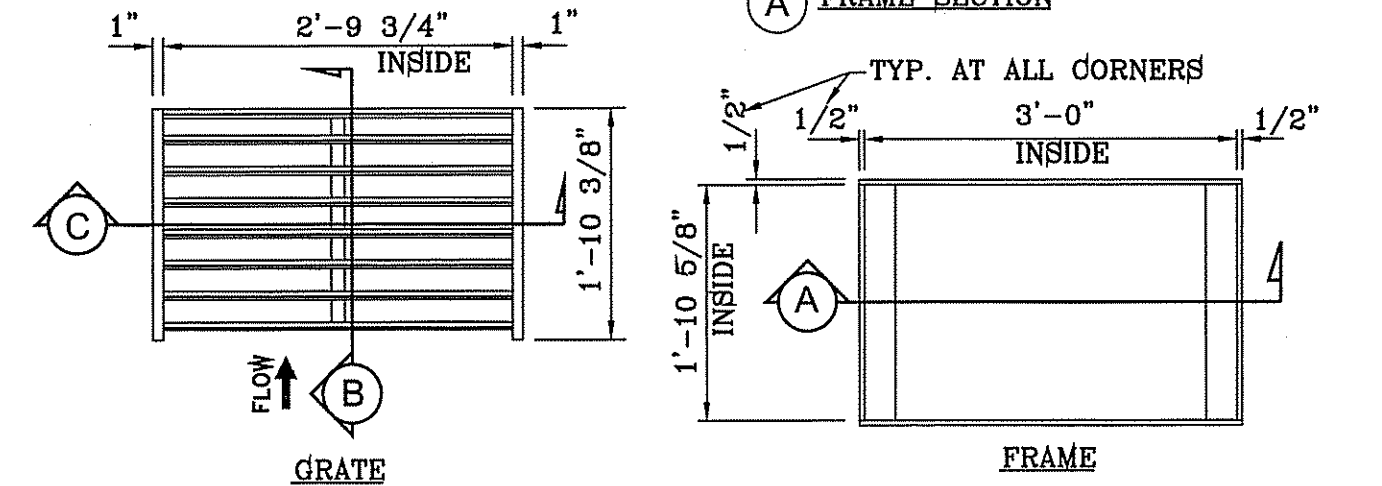
CONSTRUCTION NOTES:
 1. ANY DISTURBED SUBGRADE UNDER THE CONCRETE APRON SHALL BE COMPACTED TO 95% COMPACTION.
 2. ANY DISTURBED COARSE UNDER THE CONCRETE APRON SHALL BE COVERED IN ACCORDANCE WITH ASTM D-1557.
 3. PROVIDE A MINIMUM OF 1" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL.
 4. REINFORCING SHALL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

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



GRATE SECTION

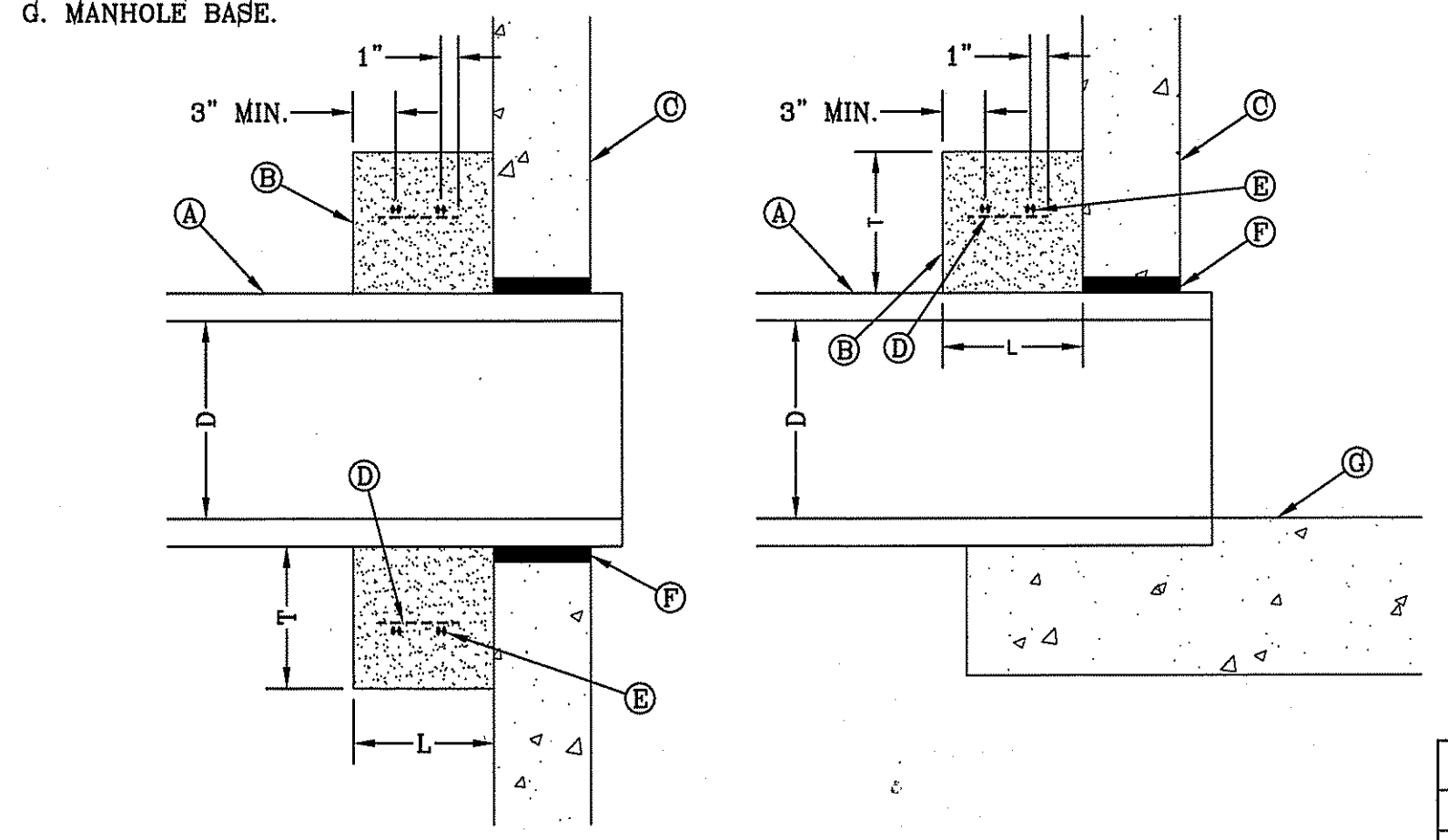
FRAME SECTION



FRAME AND GRATE DETAIL SCALE: NTS

GENERAL NOTES:
 1. NOT TO BE USED UNDER GROUND WATER CONDITIONS.

CONSTRUCTION KEY NOTES:
 A. PROPOSED R.C.P. PIPE.
 B. CONCRETE COLLAR (3000 PSI 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.

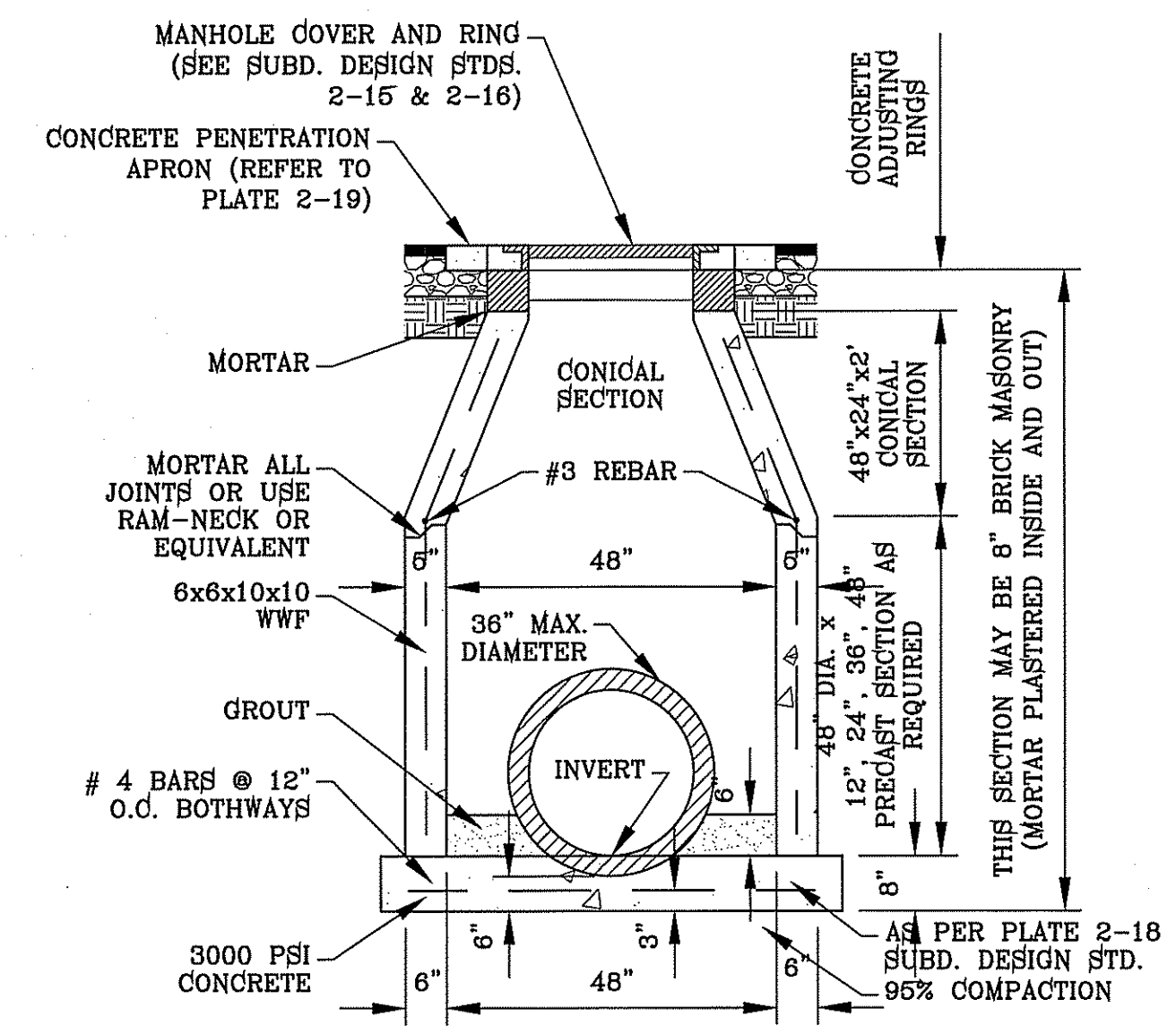


CONNECTION AT DROP INLET

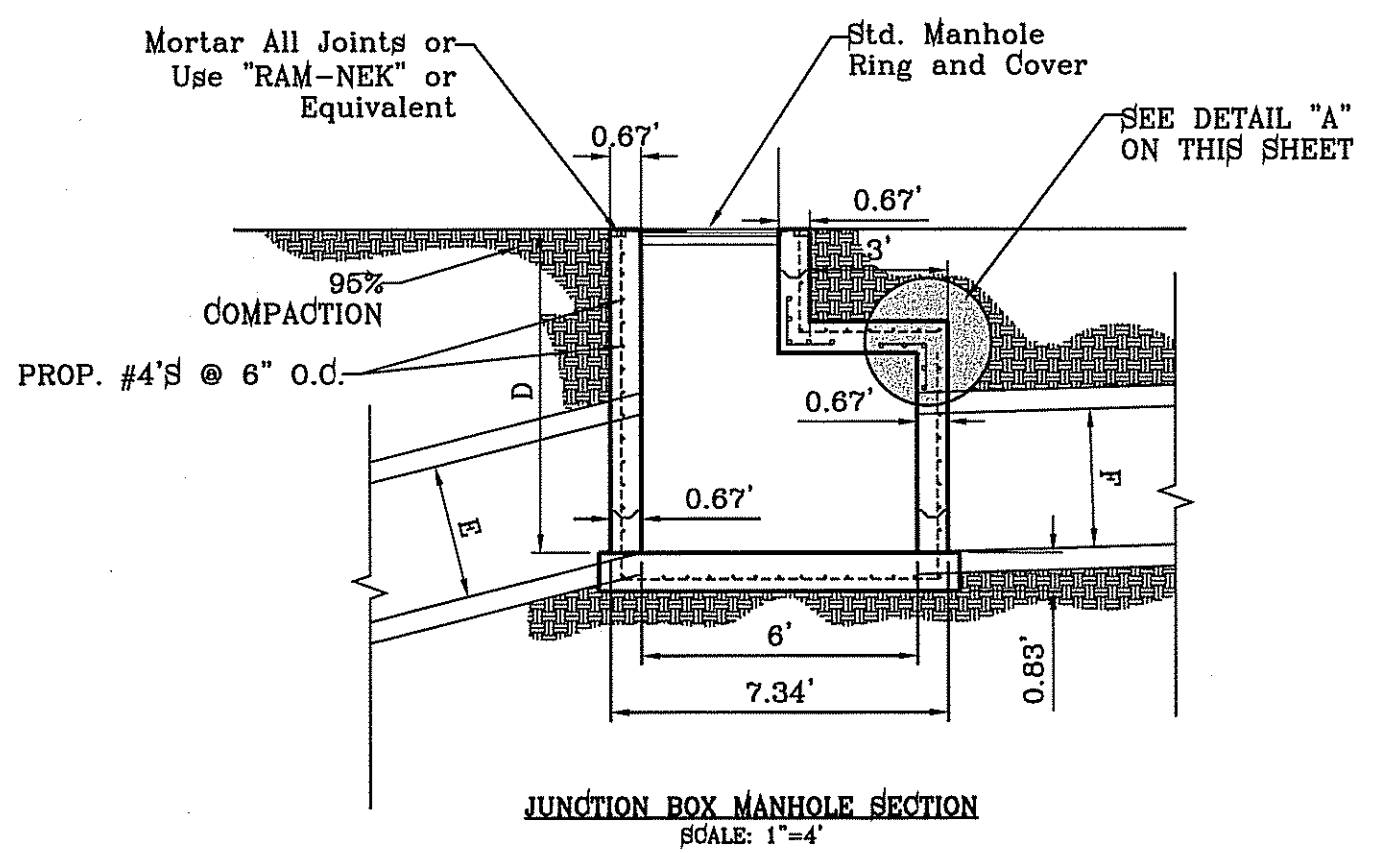
CONNECTION AT BASE

LATERAL CONNECTION AT STORMWATER PRECAST JUNCTION BOXES OR EXISTING MANHOLES (CONCRETE COLLAR)
 2-28C

TABLE		
D	L	T
18"	12"	12"
24"	12"	12"
30"	12"	12"
36"	18"	18"
42"	18"	18"



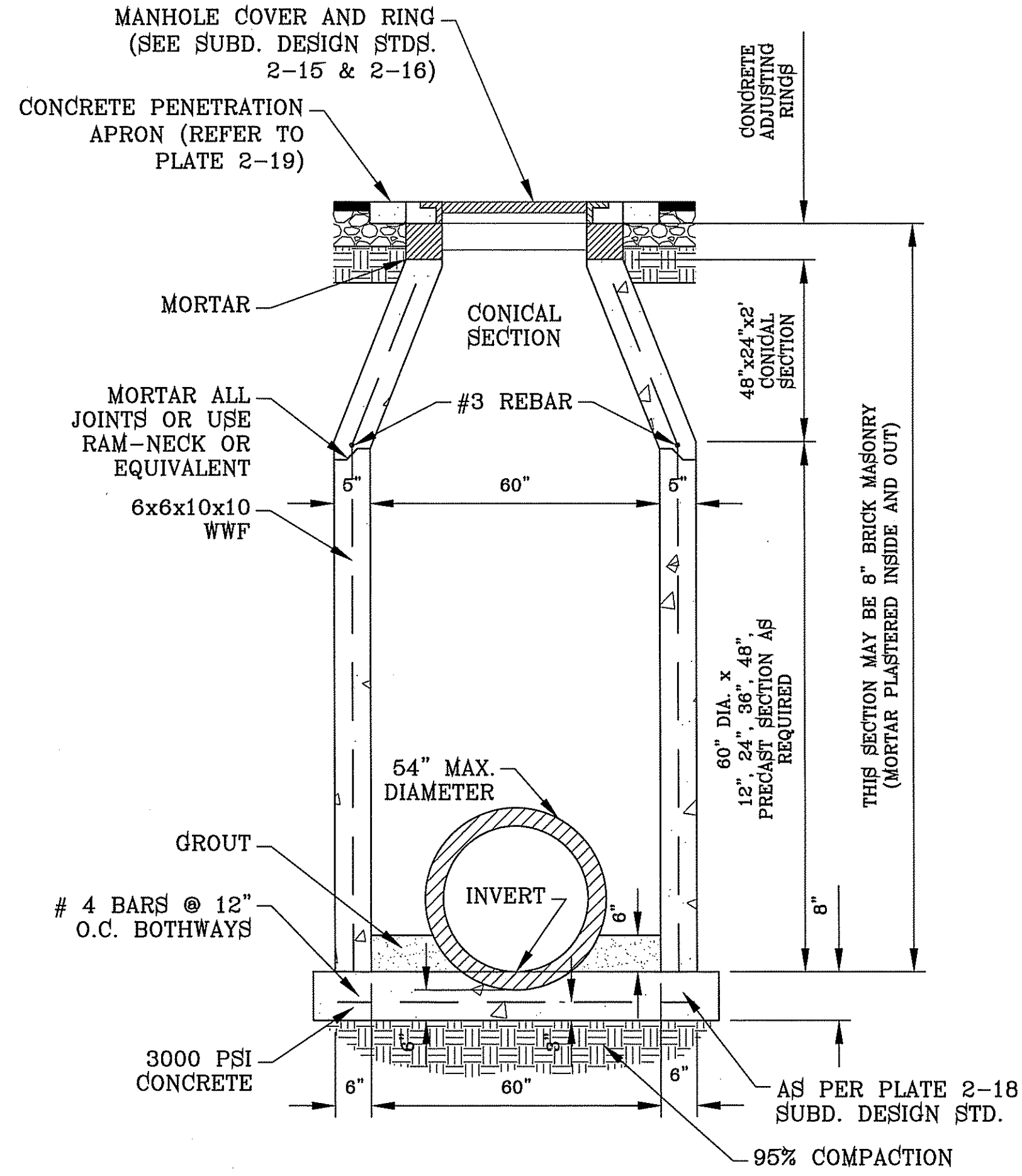
48" DIAMETER STANDARD MANHOLE SCALE: 1"=2'



JUNCTION BOX MANHOLE SECTION SCALE: 1"=4'

SECTION VIEW CHART				
J-BOX-1	J-BOX-2	J-BOX-3	J-BOX-4	J-BOX-5
D = 10.3'	D = 10.5'	D = 8.0'	D = 6.2'	D = 6.7'
E = 48"	E = 52"	E = 54"	E = 48"	E = 42"
F = 54"	F = 54"	F = 54"	F = 42"	F = 42"

SECTION VIEW CHART		
J-BOX 2-1	J-BOX 3-1	J-BOX 4-1
D = 7.00'	D = 7.00'	D = 6.2'
E = 36"	E = 30"	E = 30"
F = 36"	F = 30"	F = 36"



60" DIAMETER STANDARD MANHOLE SCALE: 1"=2'

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PL. AND JOHN HAYES ST.
 ELEVATION = 4021.26CITY DATUM

PROJECT NAME
TERRA DEL ESTE UNIT SEVENTY FOUR
 BEING PORTION OF SECTION 48, BLOCK 78, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 80,037 ± ACRES

SCALED
 HORIZ. AS SHOWN
 VERT. ---
 DATE: MARCH 2016
 DESIGN BY: Y.C.
 INITIATED BY: F.R.
 CHECKED BY: Y.C.
 JOB NO.: 713-41

ENGINEER'S SEAL

 Y.C. CURRAN
 PROFESSIONAL ENGINEER
 STATE OF TEXAS
 NO. 44648

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

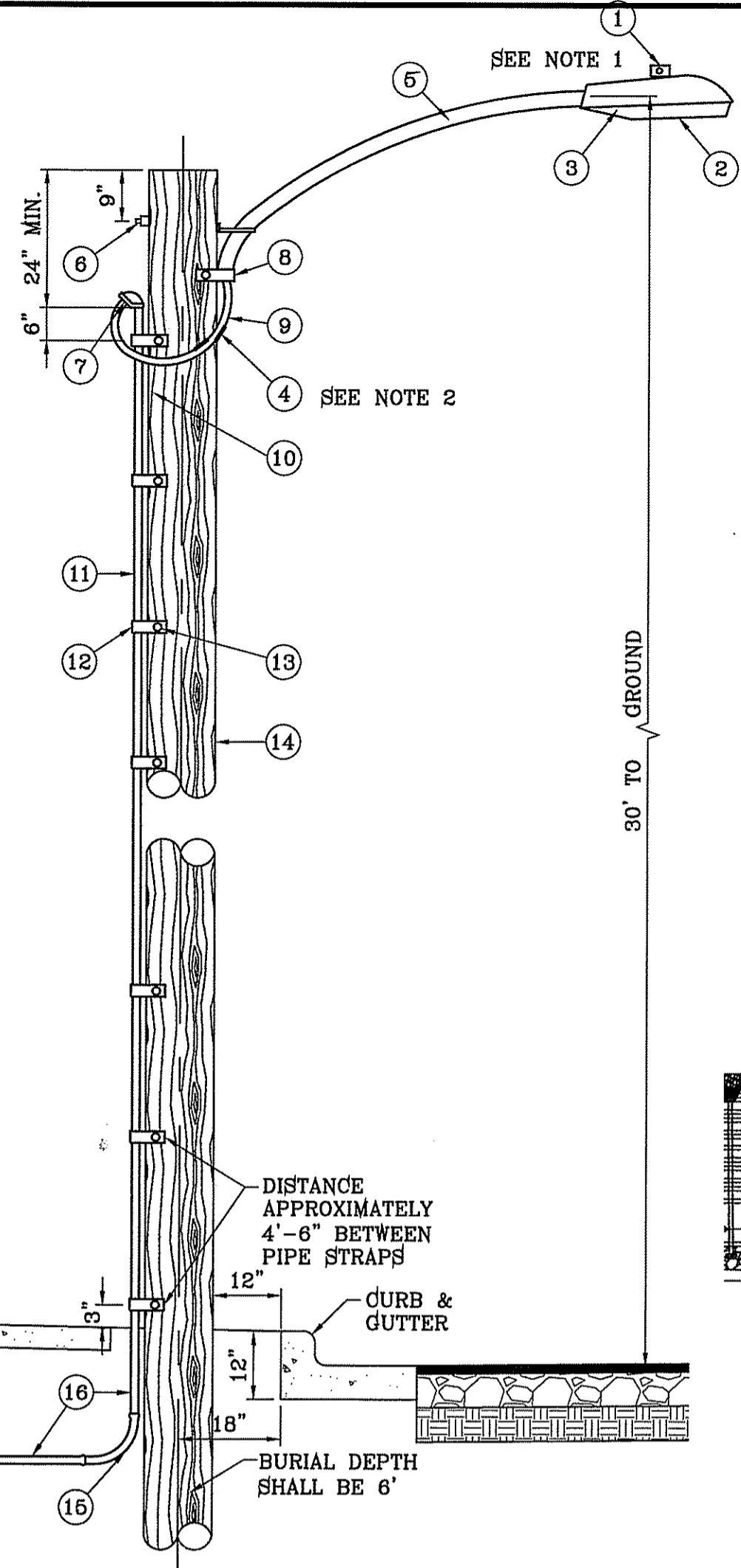
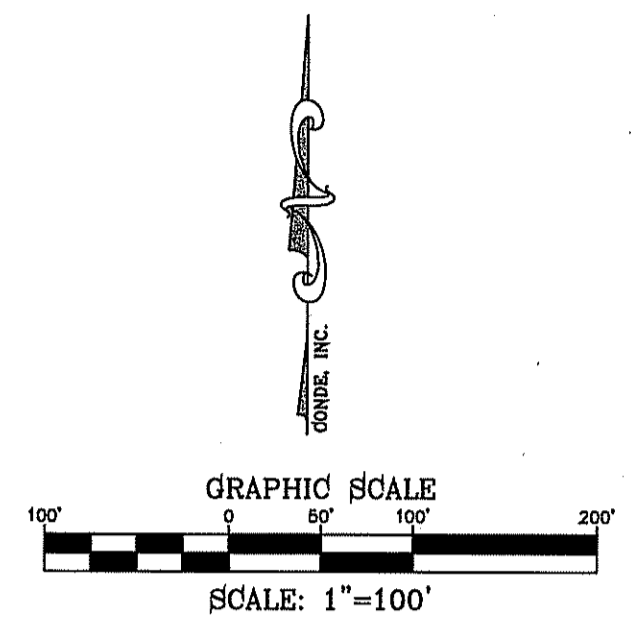
SHEET TITLE
DRAINAGE STRUCTURE DETAILS



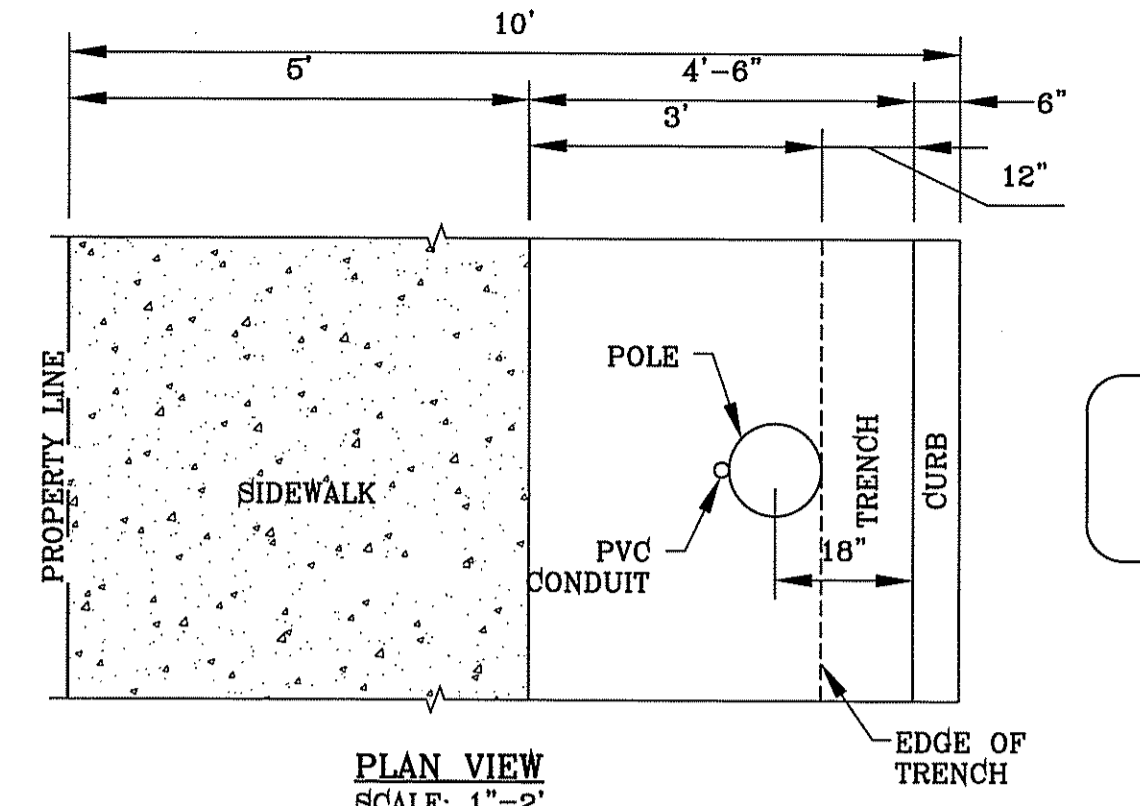
NOTE: STREET LIGHTING TO BE IN ACCORDANCE WITH EL PASO DESIGN STANDARDS, SECTION VIII

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

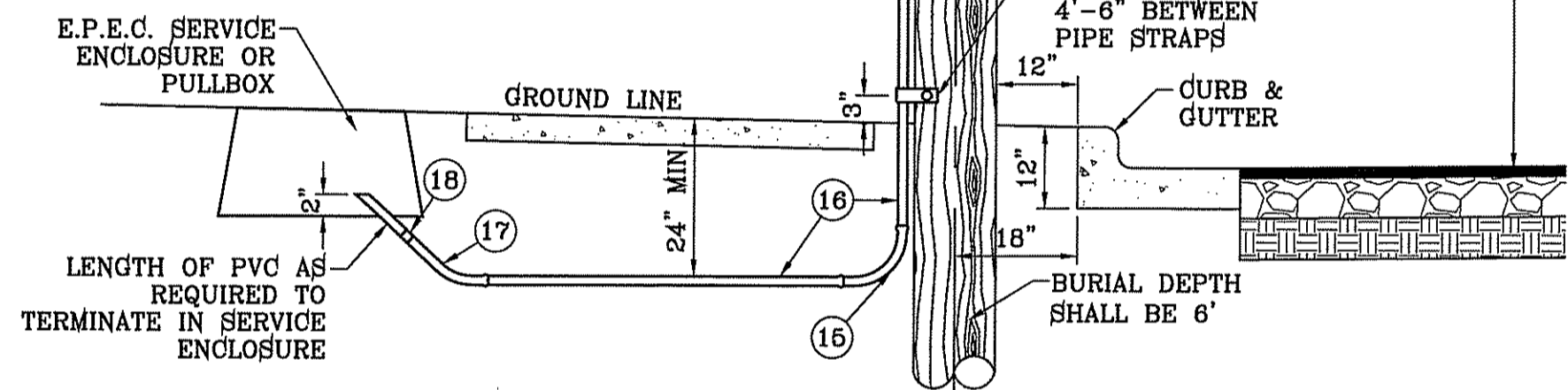
NOTE: LUMINAIRE NEED TO BE LED MINIMUM 65 WATTS ALONG PARKS.



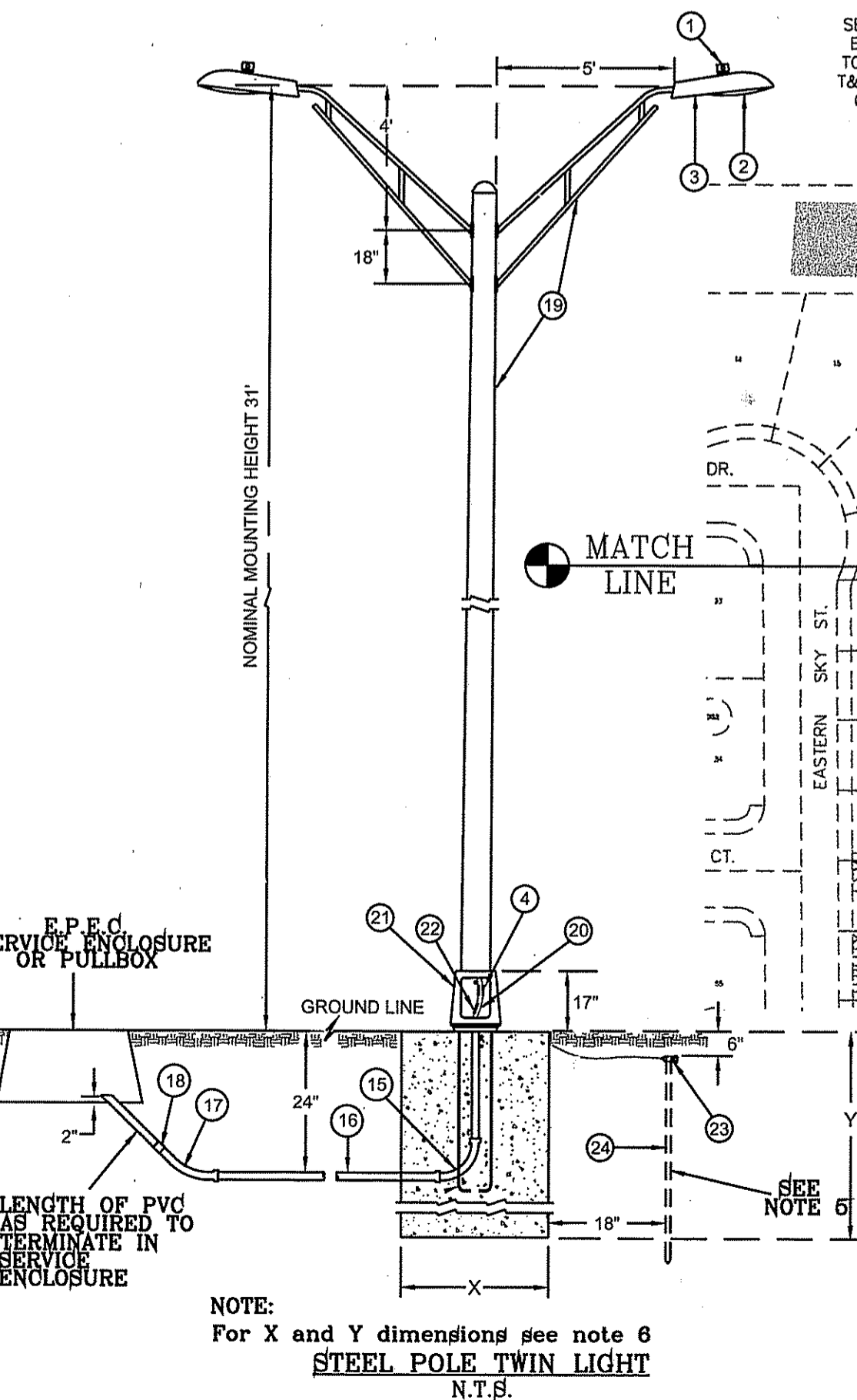
ITEM No.	DESCRIPTION	STOCK/DSU No.	QTY.	CU CODE	MACRO CODE
1	PHOTOCELL, 240 V-SEE NOTE 1	21-225	1		
2	HPS LAMP 100 W	21-085	1		LC0BRAHD
3	LUMINAIRE, 100 W HPS	21-335	1		
4	SLEEVES, #12-10	05-140	2		
5	MAST ARM, 6' x 1 1/4"	21-200	1		LBRKTI*6
6	MACHINE BOLT, 5/8" x 12"	02-470	1		
	SQUARE GALV. WASHER, 2 1/4"x2 1/4"	02-760	1		LMB5/812
	COIL SPRING WASHER, 5/8"	02-788	1		
	LOCK NUT, 5/8"	02-708	1		
7	SERVICE ENTRANCE CAP FOR 1" PVC CONDUIT	17-281	1		L5VC0AP1
8	LAG BOLT, 1/2" x 3"	02-343	2		LLAG12*3
9	CABLE #10, 2 CONDUCTOR, 600V, UF	13-600	8'		L2C#10S
10	COPPER CABLE, #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		LPV08TRP
13	NAIL, STAINLESS STEEL SCREW 2.5"	14-427	.25#		LNAL14*2
14	POLE, 35' CLASS 4	09-035	1		L364UG
15	1" PVC 90 DEGREE ELBOW	17-297	1		L1E1901
16	1" PVC CONDUIT	17-299	AS REQ'D		LPV1
17	1" PVC 45 DEGREE ELBOW	17-298	1		L1E1451
18	1" PVC COUPLING	17-296	1		LCPL1
19	STEEL POLE 31" TWIN STREET LIGHT	09-3	1		
20	CABLE #10, 2 CONDUCTOR	13-600	80'		L2C#10S
21	ALUMINUM TRANSFORMER BASE (TB-1-17)	21-808	1		LTBASE
22	BREAK AWAY FUSED 30 AMP	21-250	2		LBRKFUSE
23	5/8" GROUND ROD CLAMP	07-461	1		LGRNDROD
24	5/8"x10' CU BONDED GROUND ROD	08-626	1		



PLAN VIEW SCALE: 1"=2'



UNDERGROUND RESIDENTIAL STREET LIGHT WOOD POLE E.P.E.C. STD. DSU 806 SCALE: 1"=2'



- NOTES:
- MOUNT SO THAT PHOTO CELL IS FACING NORTH.
 - ITEM #9 SHALL NOT BE SPLICED INSIDE ITEM #6.
 - INSTALLATION MUST COMPLY WITH LOCAL CODE REQUIREMENTS.
 - FOR ANY CLARIFICATION, EXCEPTIONS OR QUESTIONS REGARDING THIS STANDARD, CALL THE EL PASO ELECTRIC COMPANY DISTRIBUTION DESIGN DEPARTMENT.
 - STEEL POLE SHALL BE GROUNDED WITH A GROUND ROD
 - FOUNDATION DIMENSIONS ARE AS FOLLOWS:
DIAMETER: DEPTH:
NORMAL SOIL (2) 24" (72")
ROCKY SOIL 24" 80"
 - 4-ANCHOR BOLTS WITH 4" HOOKS, THREAD END GALVANIZED 1" DIA.X36" LONG, EACH BOLT FURNISHED WITH 2 HEX NUTS AND 2 FLAT WASHERS ARE SUPPLIED WITH STEEL POLE.
 - EL PASO ELECTRIC RESERVES THE RIGHT TO SUBSTITUTE THE TRUSS ARM WITH A SINGLE MEMBER MAST ARM.



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER P. AND JOHN HAYES ST.
ELEVATION = 4021.26 NAVD83 DATUM

DATE: _____ BY: _____
REVISIONS: _____

PROJECT NAME
TERRA DEL ESTE UNIT SEVENTY FOUR
BEING PORTION OF SECTION 46, BLOCK 79, TOWNSHIP 2, T&P RAILWAY COMPANY SURVEYS
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 60.037± ACRES

SCALE
HORIZ. 1" = 100'
VERT. 1" = 100'
DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: Y.C.
CHECKED BY: Y.C.
JOB NO.: 719-41

CONDE INC.
ENGINEERING / PLANNING SURVEYING / GPS
6090 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

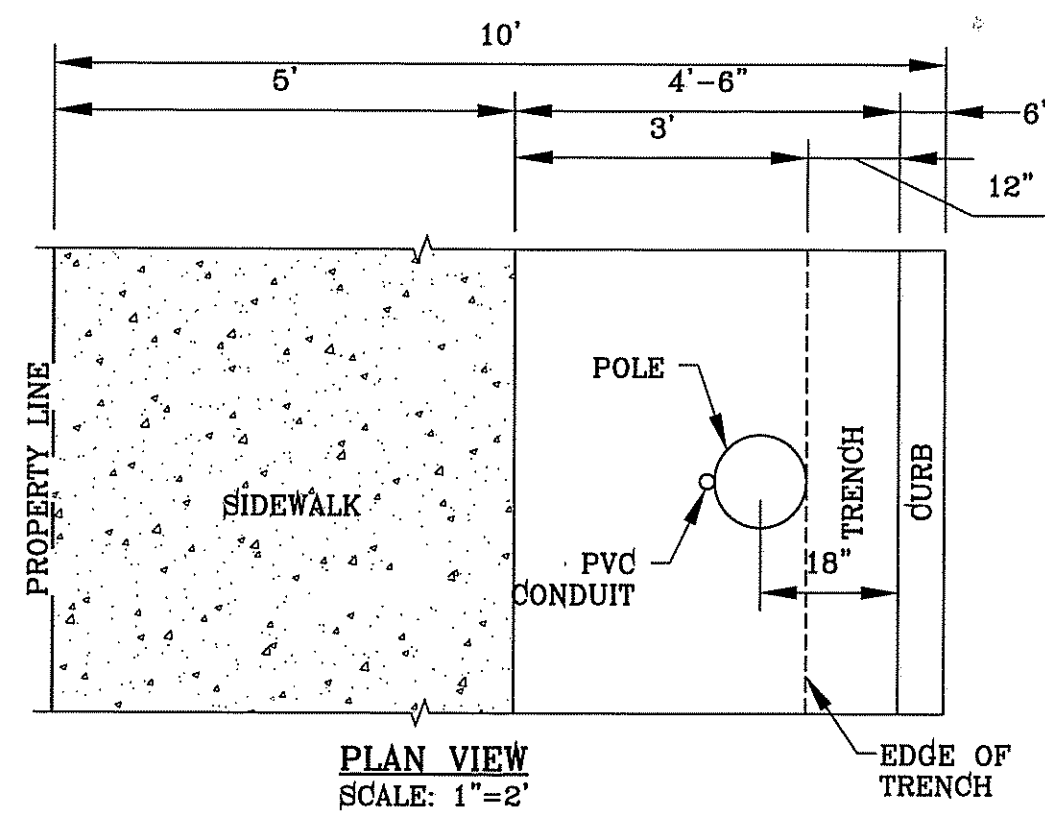
CONDE INC.
REGISTRATION No. F-2221

SHEET TITLE
ILLUMINATION AND TRAFFIC CONTROL

SHT 52 OF 53

FILE LOCATION: \\subdivisions\TDE 74\DWG\ILLUMINATION PLOTTED ON Thursday, October 12, 2017 8:39:11 AM BY FELIX RODRIGUEZ

FILE LOCATION: \\subdivisions\74.DWG\ILLUMINATION PLOTTED ON Thursday, October 12, 2017 8:44:48 AM BY FELIX RODRIGUEZ



PLAN VIEW
SCALE: 1"=2'

LEGEND

- ▲ PROPOSED LIGHT
- ◻ EXISTING LIGHT
- PROPOSED SIGN

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

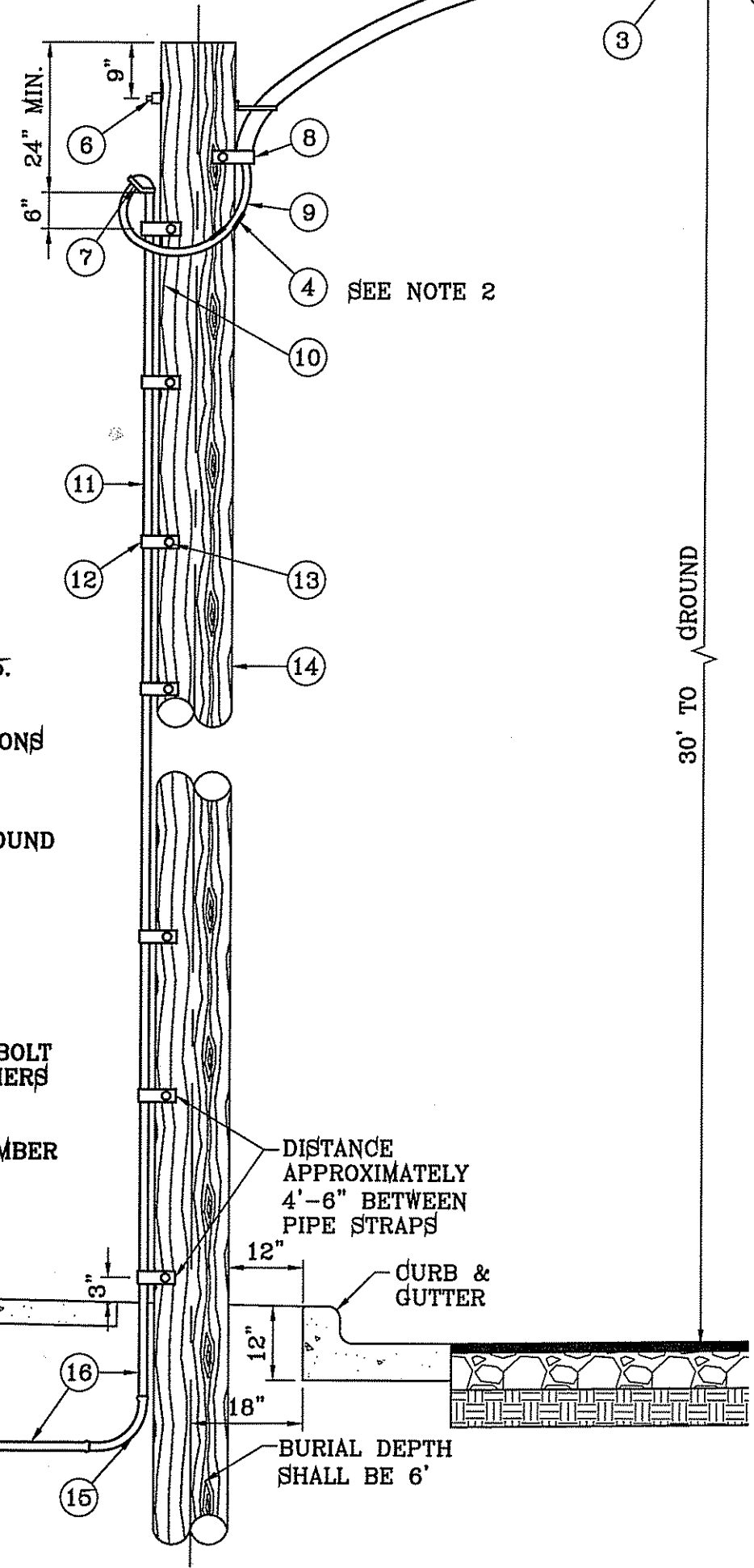
NOTE: INSTALL TRAFFIC CONTROL DEVICES AS SHOWN AND IN ACCORDANCE WITH CITY OF EL PASO DESIGN STANDARDS, SECTION VII

NOTE: LUMINAIRE NEED TO BE LED MINIMUM 65 WATTS ALONG PARKS.

NOTES:

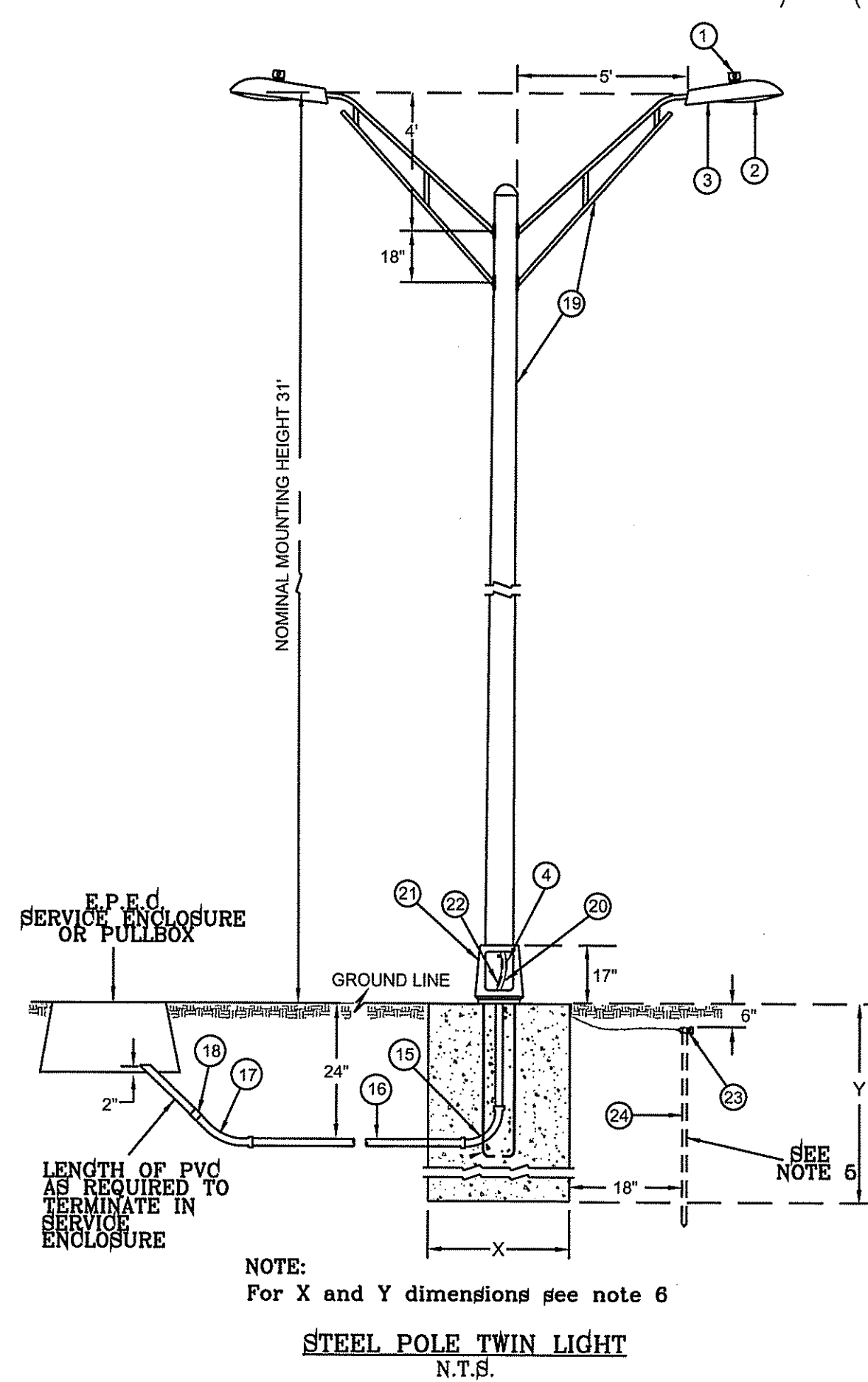
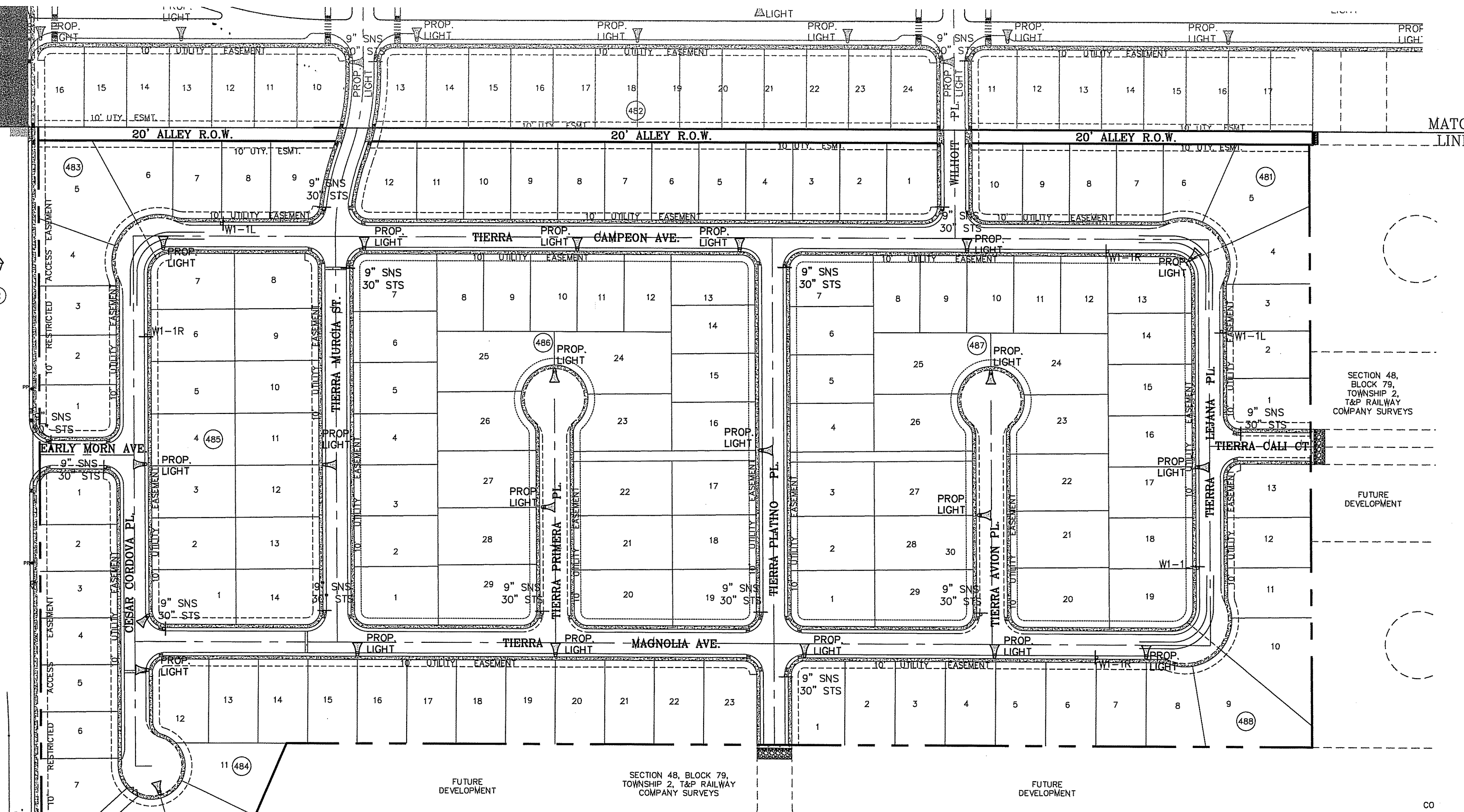
1. MOUNT SO THAT PHOTO CELL IS FACING NORTH.
2. ITEM #9 SHALL NOT BE SPliced INSIDE ITEM #5.
3. INSTALLATION MUST COMPLY WITH LOCAL CODE REQUIREMENTS.
4. FOR ANY CLARIFICATION, EXCEPTIONS OR QUESTIONS REGARDING THIS STANDARD, CALL THE EL PASO ELECTRIC COMPANY DISTRIBUTION DESIGN DEPARTMENT.
5. STEEL POLE SHALL BE GROUNDED WITH A GROUND ROD.
6. FOUNDATION DIMENSIONS ARE AS FOLLOWS:
DIAMETER: (X) DEPTH: (Y)
NORMAL SOIL 24" 72"
ROCKY SOIL 24" 60"
7. 4-ANCHOR BOLTS WITH 4" HOOKS, THREAD END GALVANIZED 1" DIA.X36" LONG, EACH BOLT FURNISHED WITH 2 HEX NUTS AND 2 FLAT WASHERS ARE SUPPLIED WITH STEEL POLE.
8. EL PASO ELECTRIC RESERVES THE RIGHT TO SUBSTITUTE THE TRUSS ARM WITH A SINGLE MEMBER MAST ARM.

E.P.E.C. SERVICE ENCLOSURE OR PULLBOX
LENGTH OF PVC AS REQUIRED TO TERMINATE IN SERVICE ENCLOSURE



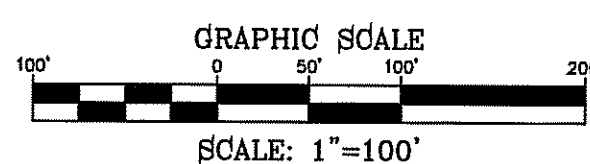
UNDERGROUND RESIDENTIAL STREET LIGHT WOOD POLE
E.P.E.C. STD. DSU 806
SCALE: 1"=2'

ITEM	No.	DESCRIPTION	STOCK DSU No.	QTY.	CU CODE	MACRO CODE
1		PHOTOCELL, 240 V-SEE NOTE 1	21-225	1		
2		HPS LAMP 100 W	21-085	1		
3		LUMINAIRE, 100 W HPS	21-335	1	LCOBRAHD	
4		SLEEVES, #12-10	05-140	2		
5		MAST ARM, 6' x 1 1/4"	21-200	1	LBRKT1*6	LCOBRAUG
		MACHINE BOLT, 5/8" x 12"	02-470	1		
6		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		
7		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'	LSCH80I	
12		PIPE STRAP FOR 1" PVC CONDUIT 2 HOLE	17-283	7	LPVOSTRP	
13		NAIL, STAINLESS STEEL SCREW 2.6"	14-427	.25#	LNAL14*2	
14		POLE, 35' CLASS 4	09-035	1	L354UG	
15		1" PVC 90 DEGREE ELBOW	17-297	1	L90E1	
16		1" PVC CONDUIT	17-299	AS REQ'D	LPVC1	
17		1" PVC 45 DEGREE ELBOW	17-298	1	L45E1	
18		1" PVC COUPLING	17-296	1	LCPL1	
19		STEEL POLE 31' TWIN STREET LIGHT	09-3	1		
20		CABLE #10, 2 CONDUCTOR	13-600	80'	L2C#10S	
21		ALUMINUM TRANSFORMER BASE (TB-1-17)	21-608	1	LTBASE	
22		BREAK AWAY FUSED 30 AMP	21-250	2	LBRKFUSE	
23		5/8" GROUND ROD CLAMP	07-461	1	LGRNDROD	
24		5/8"X10' CU BONDED GROUND ROD	08-628	1		

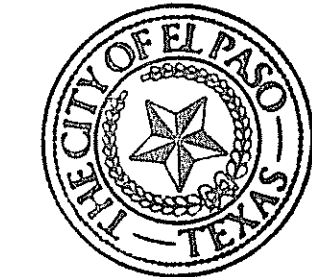


NOTE: For X and Y dimensions see note 6

STEEL POLE TWIN LIGHT
N.T.S.



SCALE: 1"=100'



CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES POSTER PL. AND JOHN HAYES ST. ELEVATION = 4021.28NAVD83 DATUM

DATE	REVISIONS	BY

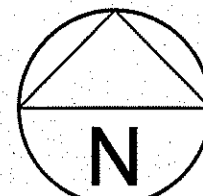
PROJECT NAME
TERRA DEL ESTE UNIT SEVENTY FOUR
BEING PORTION OF SECTION 48, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILWAY CO. SURVEYS. CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 80.037± ACRES

SCALE
HORIZ. 1" = 100'
VERT. 1" = 100'
DATE: MARCH 2016
DESIGN BY: Y.C.
INITIATED BY: F.R.
CHECKED BY: Y.C.
JOB NO.: 719-41

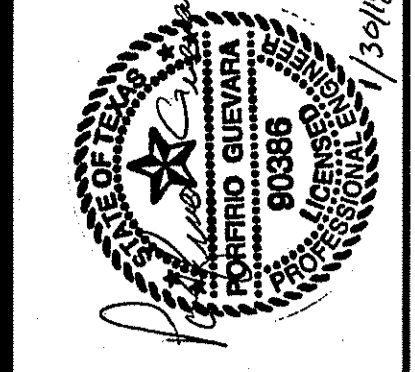
ENGINEER'S SEAL
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6060 STREET TEXAS 79905
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

CONDE INC.
REGISTRATION No. F-231

SHEET TITLE
ILLUMINATION AND TRAFFIC CONTROL



SCALE: 1"=100'



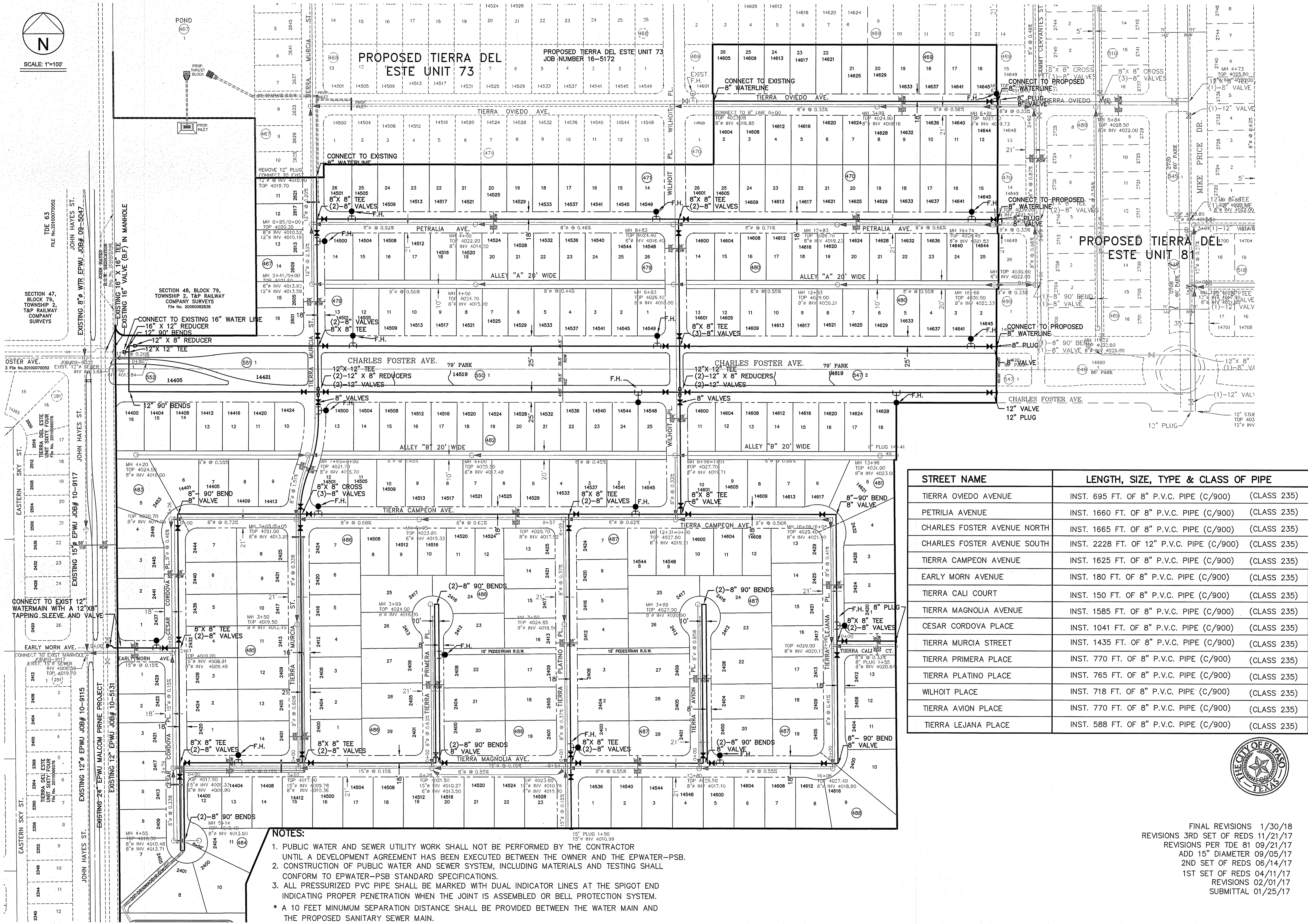
GUEVARA ENGINEERING
P.O. BOX 961514
EL PASO, TEXAS 79996
(915) 203-5826
STATE REGISTRATION NO. F-12421

TIERRA DEL ESTE UNIT 74 SUBDIVISION

CITY OF EL PASO
EL PASO COUNTY, TEXAS

WATER DISTRIBUTION SYSTEM

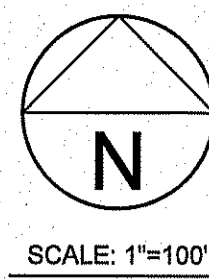
DATE: NOVEMBER 2016
SCALE: AS SHOWN
JOB NO.:
SHEET NO.: **SHT. 1 OF 8**



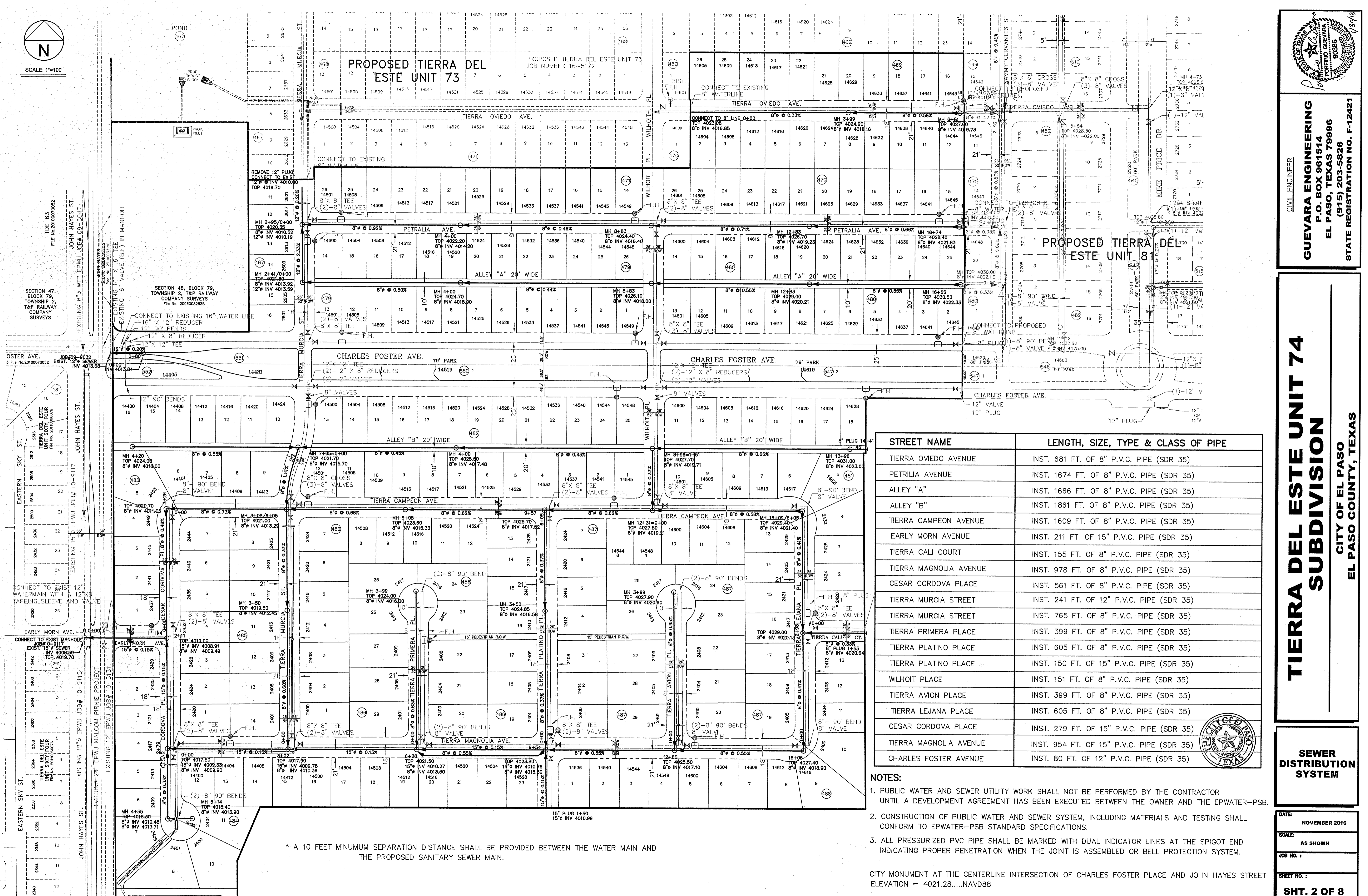
STREET NAME	LENGTH, SIZE, TYPE & CLASS OF PIPE
TIERRA OVIEDO AVENUE	INST. 695 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
PETRALIA AVENUE	INST. 1660 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
CHARLES FOSTER AVENUE NORTH	INST. 1665 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
CHARLES FOSTER AVENUE SOUTH	INST. 2228 FT. OF 12" P.V.C. PIPE (C/900) (CLASS 235)
TIERRA CAMPEON AVENUE	INST. 1625 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
EARLY MORN AVENUE	INST. 180 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
TIERRA CALI COURT	INST. 150 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
TIERRA MAGNOLIA AVENUE	INST. 1585 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
CESAR CORDOVA PLACE	INST. 1041 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
TIERRA MURCIA STREET	INST. 1435 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
TIERRA PRIMERA PLACE	INST. 770 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
TIERRA PLATINO PLACE	INST. 765 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
WILHOIT PLACE	INST. 718 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
TIERRA AVION PLACE	INST. 770 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)
TIERRA LEJANA PLACE	INST. 588 FT. OF 8" P.V.C. PIPE (C/900) (CLASS 235)

- NOTES:**
- PUBLIC WATER AND SEWER UTILITY WORK SHALL NOT BE PERFORMED BY THE CONTRACTOR UNTIL A DEVELOPMENT AGREEMENT HAS BEEN EXECUTED BETWEEN THE OWNER AND THE EPWATER-PSB.
 - CONSTRUCTION OF PUBLIC WATER AND SEWER SYSTEM, INCLUDING MATERIALS AND TESTING SHALL CONFORM TO EPWATER-PSB STANDARD SPECIFICATIONS.
 - ALL PRESSURIZED PVC PIPE SHALL BE MARKED WITH DUAL INDICATOR LINES AT THE SPIGOT END INDICATING PROPER PENETRATION WHEN THE JOINT IS ASSEMBLED OR BELL PROTECTION SYSTEM.
- * A 10 FEET MINIMUM SEPARATION DISTANCE SHALL BE PROVIDED BETWEEN THE WATER MAIN AND THE PROPOSED SANITARY SEWER MAIN.

FINAL REVISIONS 1/30/18
REVISIONS 3RD SET OF REDS 11/21/17
REVISIONS PER TDE 81 09/21/17
ADD 15" DIAMETER 09/05/17
2ND SET OF REDS 06/14/17
1ST SET OF REDS 04/11/17
REVISIONS 02/01/17
SUBMITTAL 01/25/17



SCALE: 1"=100'

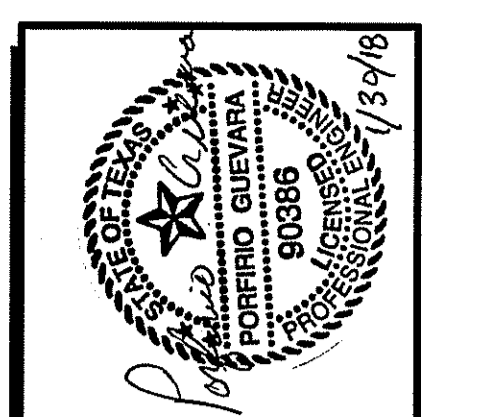


STREET NAME	LENGTH, SIZE, TYPE & CLASS OF PIPE
TIERRA OVIEDO AVENUE	INST. 681 FT. OF 8" P.V.C. PIPE (SDR 35)
PETRALIA AVENUE	INST. 1674 FT. OF 8" P.V.C. PIPE (SDR 35)
ALLEY "A"	INST. 1666 FT. OF 8" P.V.C. PIPE (SDR 35)
ALLEY "B"	INST. 1861 FT. OF 8" P.V.C. PIPE (SDR 35)
TIERRA CAMPEON AVENUE	INST. 1609 FT. OF 8" P.V.C. PIPE (SDR 35)
EARLY MORN AVENUE	INST. 211 FT. OF 15" P.V.C. PIPE (SDR 35)
TIERRA CALI COURT	INST. 155 FT. OF 8" P.V.C. PIPE (SDR 35)
TIERRA MAGNOLIA AVENUE	INST. 978 FT. OF 8" P.V.C. PIPE (SDR 35)
CESAR CORDOVA PLACE	INST. 561 FT. OF 8" P.V.C. PIPE (SDR 35)
TIERRA MURCIA STREET	INST. 241 FT. OF 12" P.V.C. PIPE (SDR 35)
TIERRA MURCIA STREET	INST. 765 FT. OF 8" P.V.C. PIPE (SDR 35)
TIERRA PRIMERA PLACE	INST. 399 FT. OF 8" P.V.C. PIPE (SDR 35)
TIERRA PLATINO PLACE	INST. 605 FT. OF 8" P.V.C. PIPE (SDR 35)
TIERRA PLATINO PLACE	INST. 150 FT. OF 15" P.V.C. PIPE (SDR 35)
WILHOIT PLACE	INST. 151 FT. OF 8" P.V.C. PIPE (SDR 35)
TIERRA AVION PLACE	INST. 399 FT. OF 8" P.V.C. PIPE (SDR 35)
TIERRA LEJANA PLACE	INST. 605 FT. OF 8" P.V.C. PIPE (SDR 35)
CESAR CORDOVA PLACE	INST. 279 FT. OF 15" P.V.C. PIPE (SDR 35)
TIERRA MAGNOLIA AVENUE	INST. 954 FT. OF 15" P.V.C. PIPE (SDR 35)
CHARLES FOSTER AVENUE	INST. 80 FT. OF 12" P.V.C. PIPE (SDR 35)

- NOTES:**
- PUBLIC WATER AND SEWER UTILITY WORK SHALL NOT BE PERFORMED BY THE CONTRACTOR UNTIL A DEVELOPMENT AGREEMENT HAS BEEN EXECUTED BETWEEN THE OWNER AND THE EPWATER-PSB.
 - CONSTRUCTION OF PUBLIC WATER AND SEWER SYSTEM, INCLUDING MATERIALS AND TESTING SHALL CONFORM TO EPWATER-PSB STANDARD SPECIFICATIONS.
 - ALL PRESSURIZED PVC PIPE SHALL BE MARKED WITH DUAL INDICATOR LINES AT THE SPIGOT END INDICATING PROPER PENETRATION WHEN THE JOINT IS ASSEMBLED OR BELL PROTECTION SYSTEM.

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF CHARLES FOSTER PLACE AND JOHN HAYES STREET ELEVATION = 4021.28.....NAVD88

* A 10 FEET MINIMUM SEPARATION DISTANCE SHALL BE PROVIDED BETWEEN THE WATER MAIN AND THE PROPOSED SANITARY SEWER MAIN.

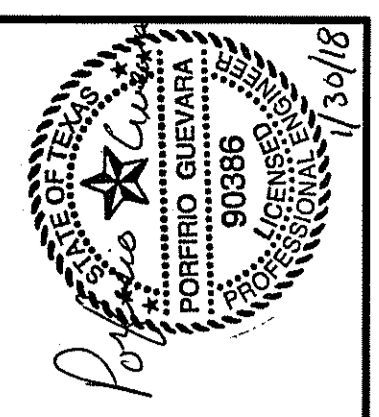
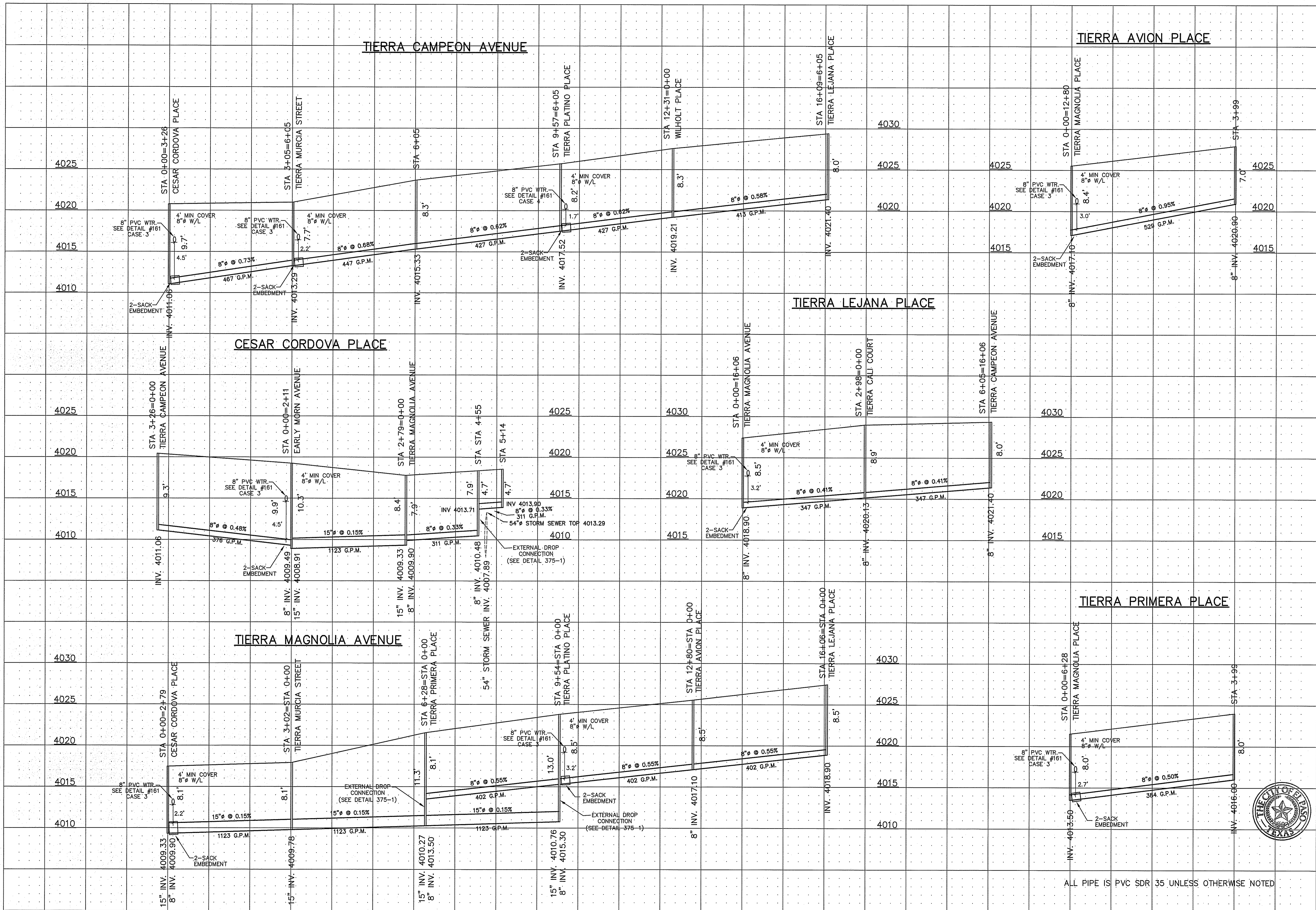


GUEVARA ENGINEERING
 P.O. BOX 961514
 EL PASO, TEXAS 79996
 (915) 203-5826
 STATE REGISTRATION NO. F-12421

TIERRA DEL ESTE UNIT 74
SUBDIVISION
 CITY OF EL PASO
 EL PASO COUNTY, TEXAS

SEWER DISTRIBUTION SYSTEM

DATE:	NOVEMBER 2016
SCALE:	AS SHOWN
JOB NO.:	
SHEET NO.:	SHT. 2 OF 8



CIVIL ENGINEER
GUEVARA ENGINEERING
 P.O. BOX 961514
 EL PASO, TEXAS 79996
 (915) 203-5826
 STATE REGISTRATION NO. F-12421

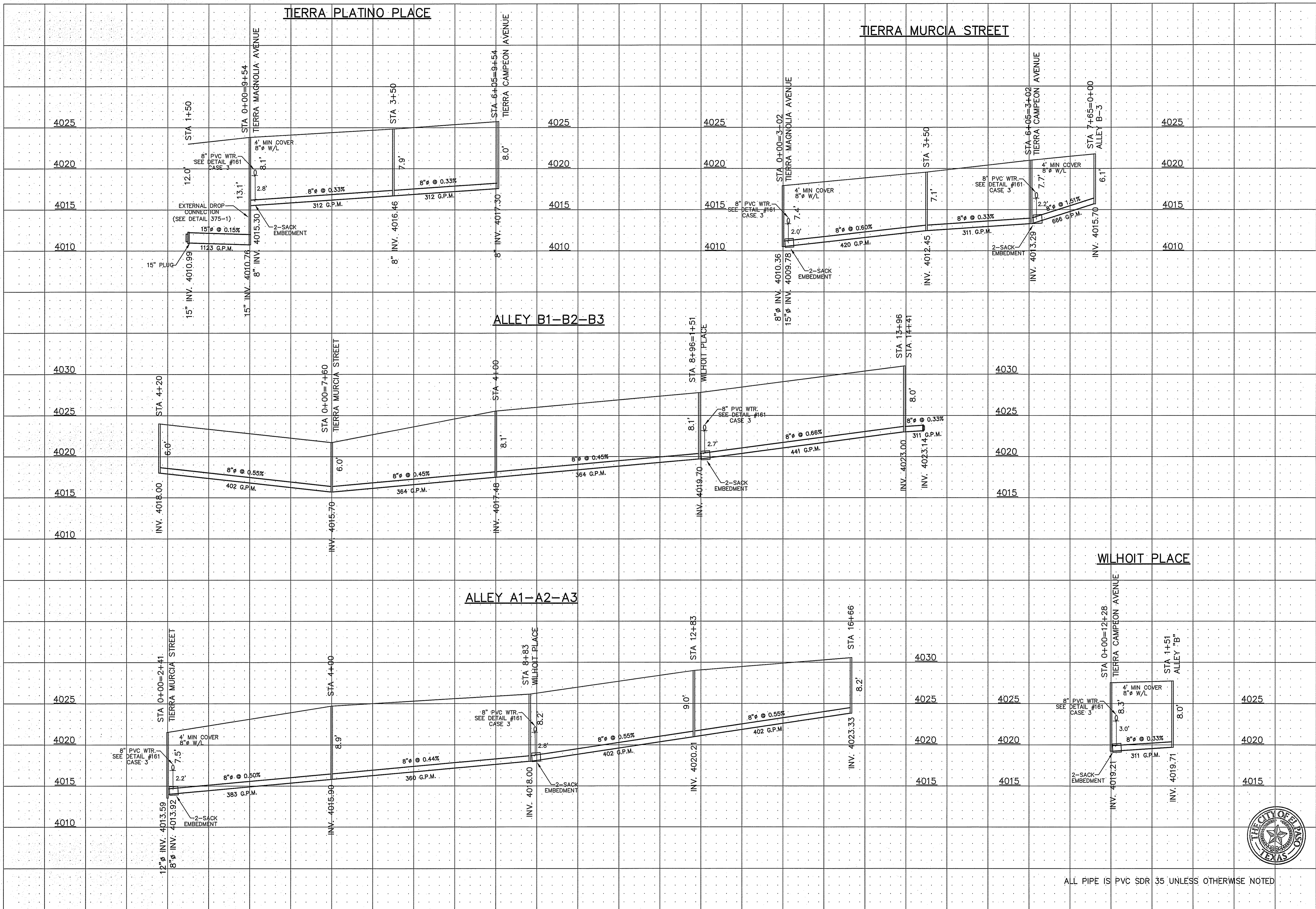
**TIERRA DEL ESTE UNIT 74
 SUBDIVISION**
 CITY OF EL PASO
 EL PASO COUNTY, TEXAS

**SEWER
 PROFILES**

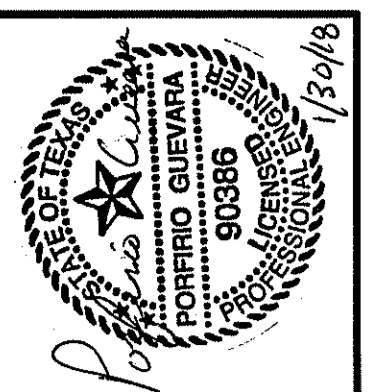
DATE: NOVEMBER 2016
 SCALE: AS SHOWN
 JOB NO.:
 SHEET NO.:
SHT. 3 OF 8



ALL PIPE IS PVC SDR 35 UNLESS OTHERWISE NOTED



ALL PIPE IS PVC SDR 35 UNLESS OTHERWISE NOTED



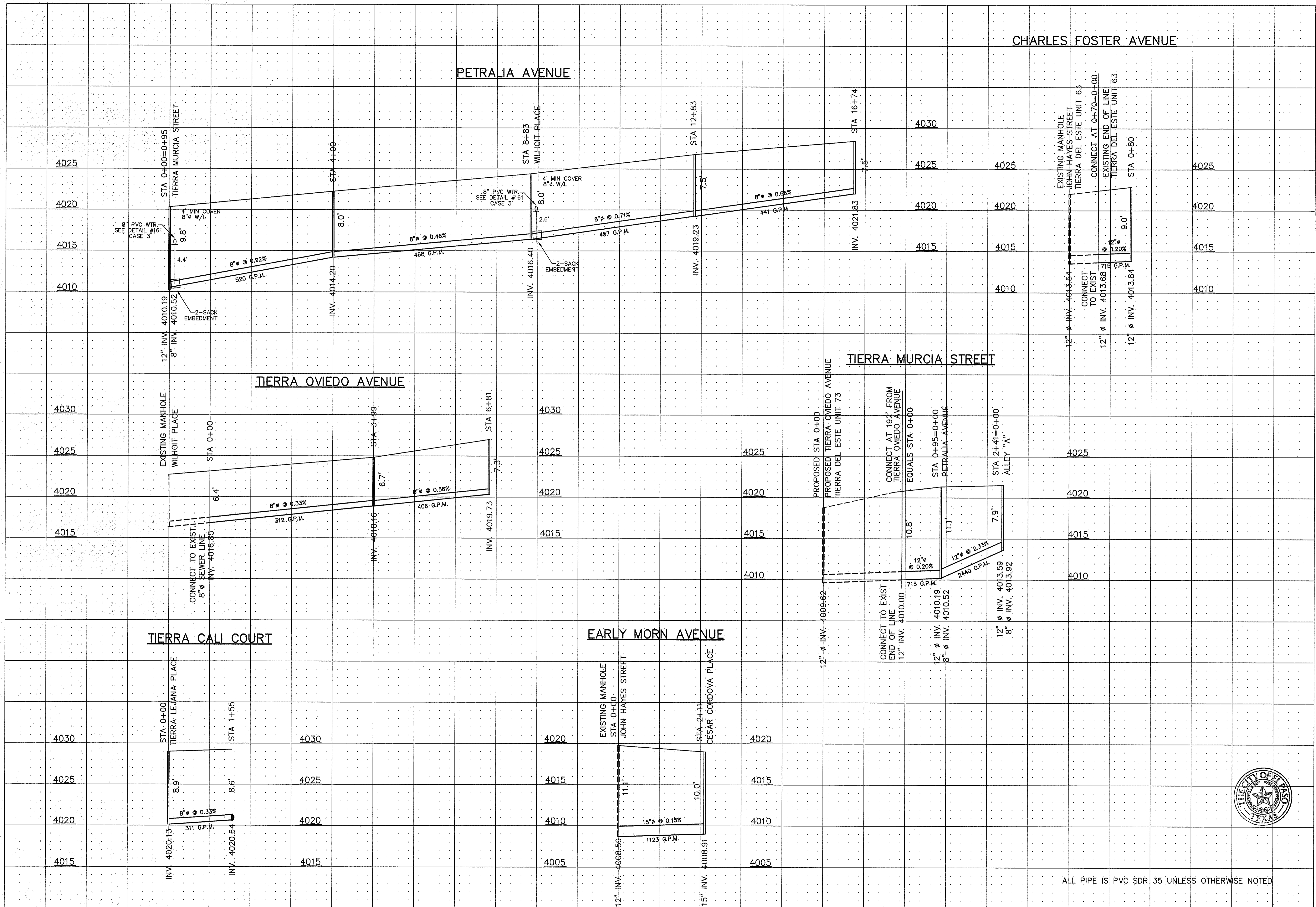
GUEVARA ENGINEERING
 CIVIL ENGINEER
 P.O. BOX 961514
 EL PASO, TEXAS 79996
 (915) 203-5826
 STATE REGISTRATION NO. F-12421

TIERRA DEL ESTE UNIT 74 SUBDIVISION

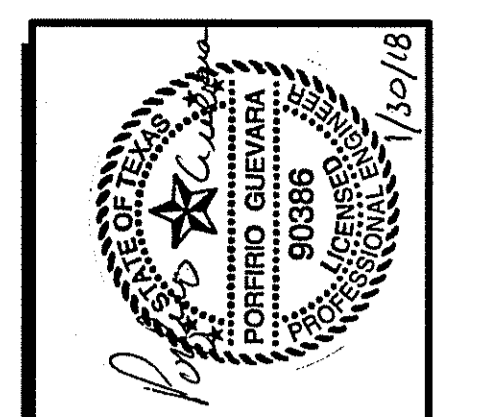
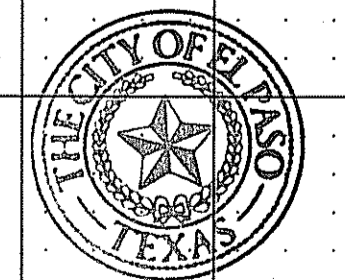
CITY OF EL PASO
 EL PASO COUNTY, TEXAS

SEWER PROFILES

DATE:	MAY 2016
SCALE:	AS SHOWN
JOB NO.:	
SHEET NO.:	SHT. 4 OF 8



ALL PIPE IS PVC SDR 35 UNLESS OTHERWISE NOTED

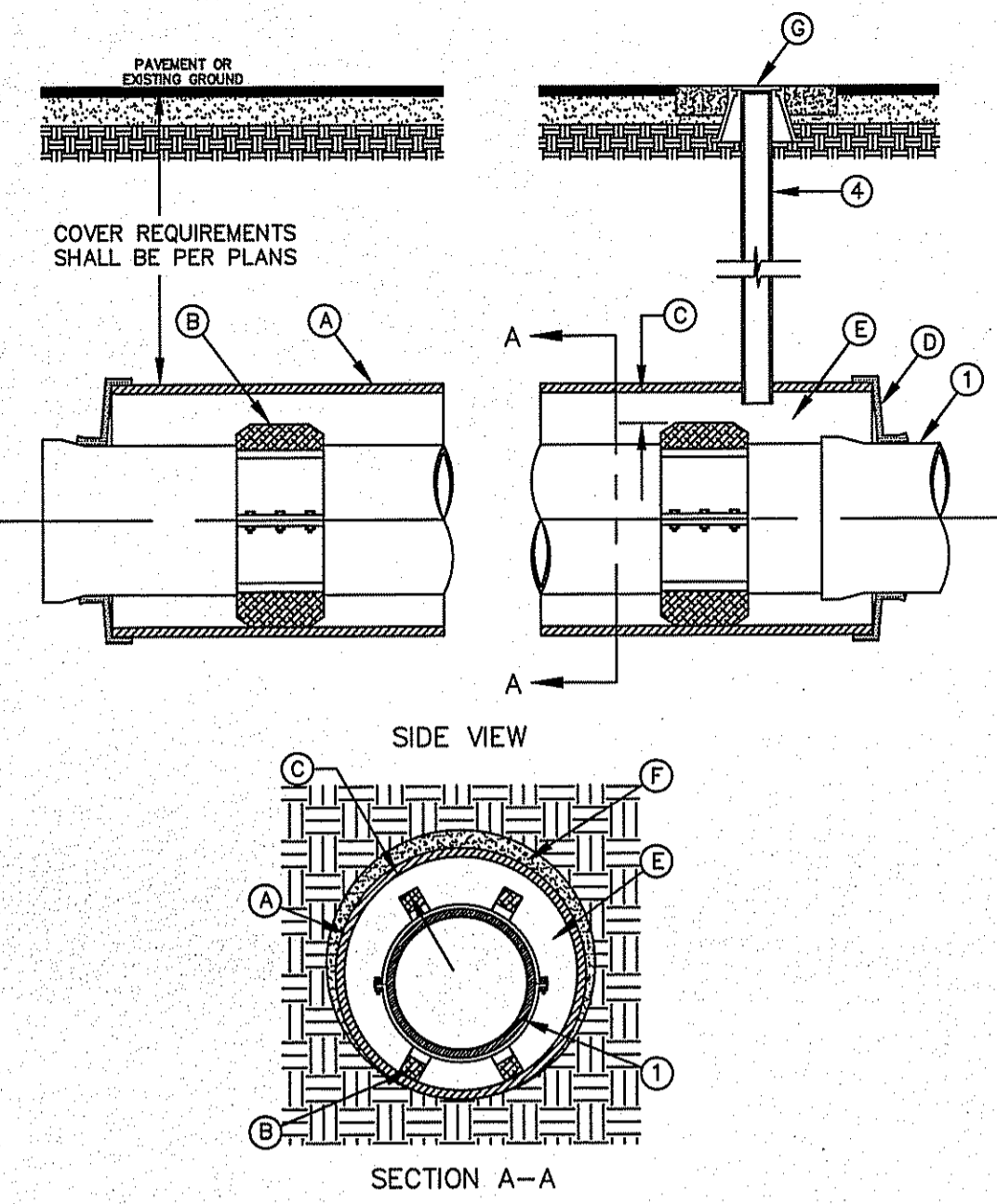


GUEVARA ENGINEERING
 CIVIL ENGINEER
 P.O. BOX 961514
 EL PASO, TEXAS 79996
 (915) 203-5826
 STATE REGISTRATION NO. F-12421

**TIERRA DEL ESTE UNIT 74
 SUBDIVISION**
 CITY OF EL PASO
 EL PASO COUNTY, TEXAS

**SEWER
 PROFILES**

DATE: NOVEMBER 2016
 SCALE: AS SHOWN
 JOB NO.:
 SHEET NO.:
SHT. 5 OF 8



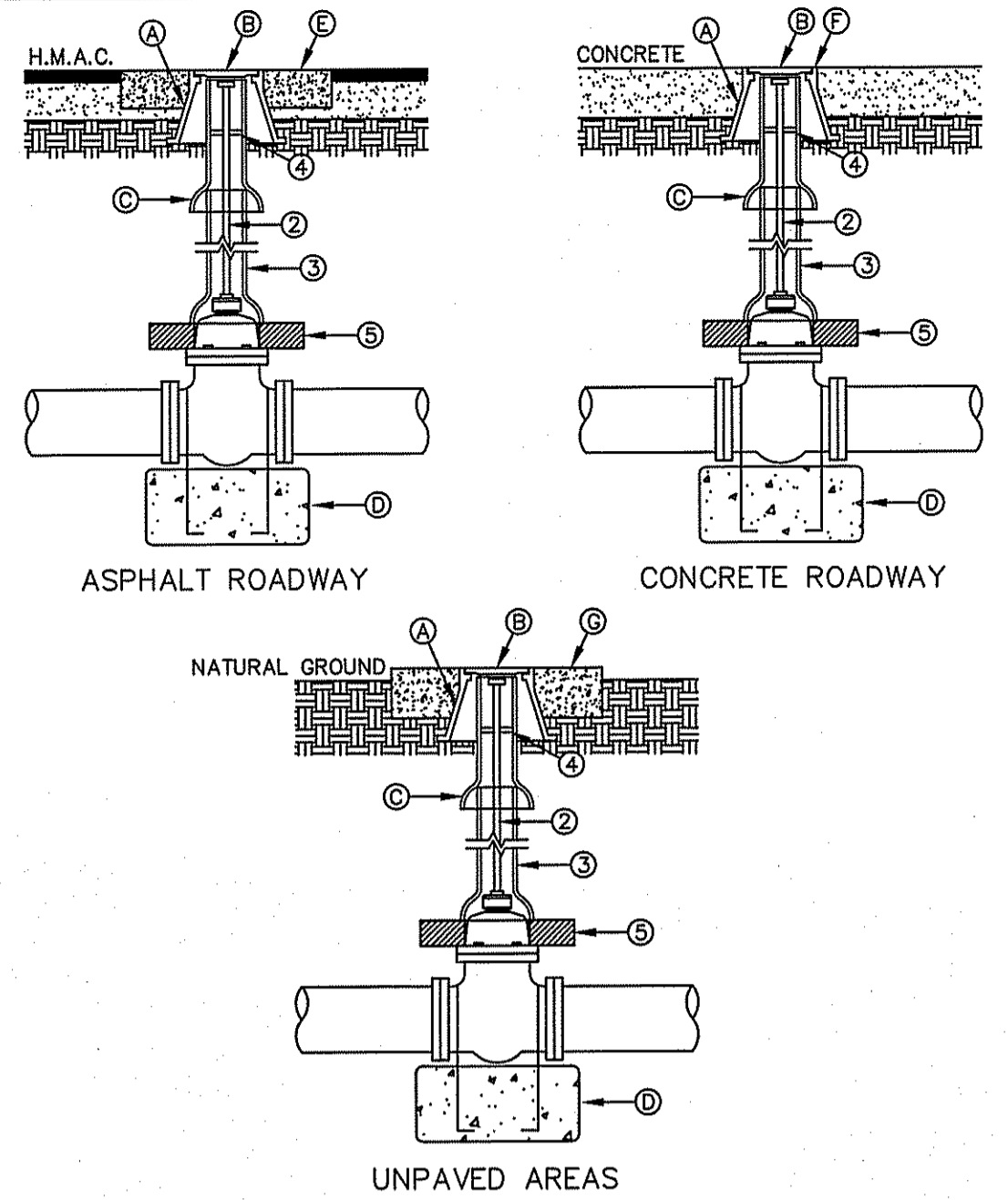
GENERAL NOTES:

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

CONSTRUCTION KEY NOTES:

- STEEL CASING MINIMUM YIELD 36000 PSI, SIZE AND LENGTH AS SPECIFIED.
- CASING INSULATORS, SPACING AND LOCATION PER MANUFACTURER'S RECOMMENDATIONS. INSULATORS SHALL FIT SNUG OVER THE CARRIER PIPE.
- POSITION CARRIER PIPE APPROXIMATELY IN CENTER OF CASING. MINIMUM SPACING BETWEEN INSULATOR AND CARRIER PIPE SHALL BE 1", MAXIMUM SPACING SHALL BE 2".
- END SHALL BE SEALED WITH BRICK AND MORTAR, BULKHEAD AND GROUT, OR WITH SYNTHETIC RUBBER SEAL, AS SPECIFIED.
- ANNULAR SPACE SHALL BE LEFT OPEN FOR CATHODICALLY PROTECTED SYSTEM WHERE BOTH CASING AND CARRIER PIPE ARE METALLIC MATERIAL, OR AS OTHERWISE SPECIFIED.
- PRESSURE GROUT ANNULAR SPACE OUTSIDE CASING AFTER CASING IS INSTALLED.
- 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).

STANDARD DETAIL DATE: 3/1994 REV: 1/7/2013 CARRIER PIPE INSTALLATION WITH CASING INSULATORS N.T.S. **el PASO WATER** DETAIL No. 180



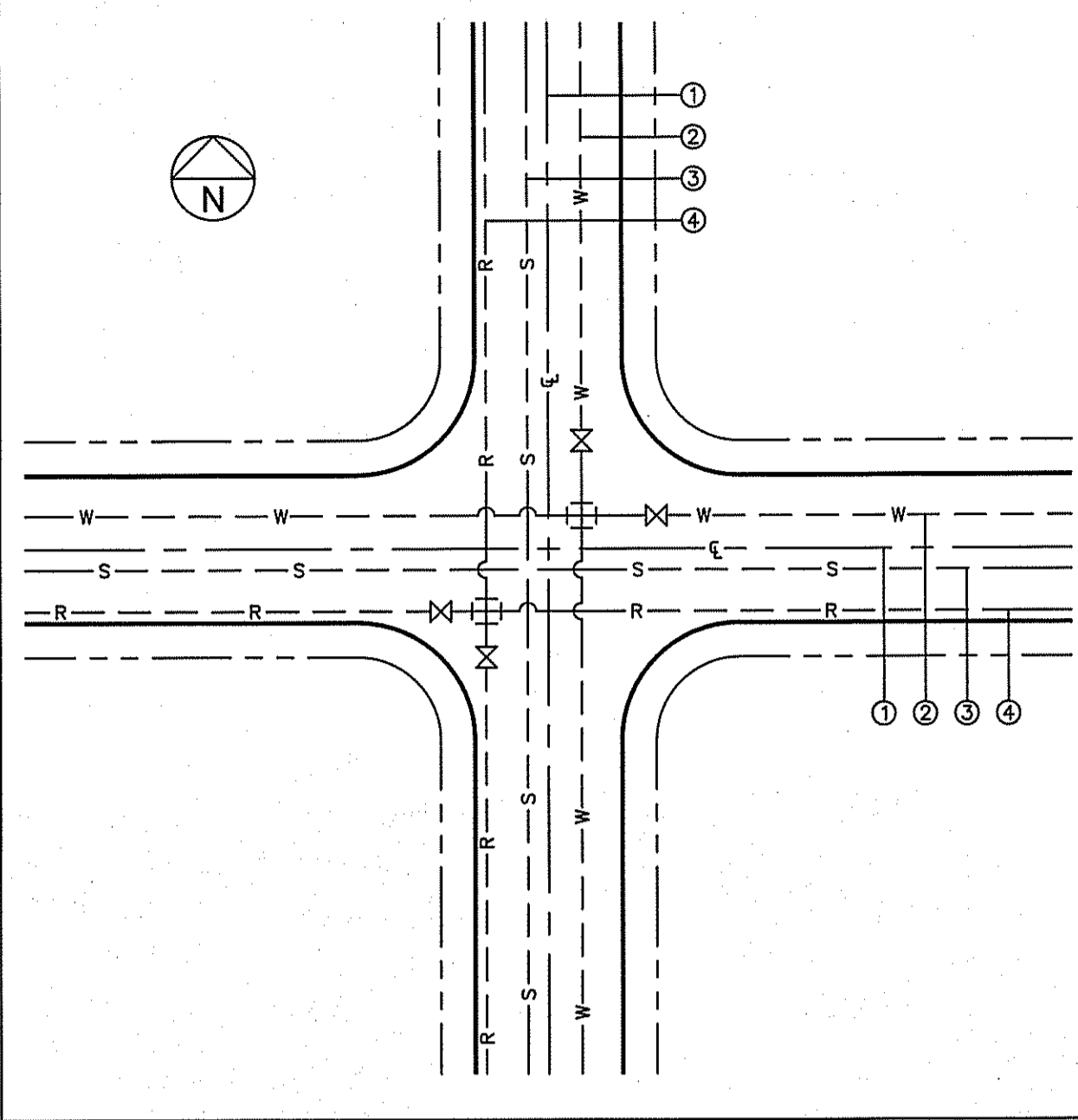
GENERAL NOTES:

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

CONSTRUCTION KEY NOTES:

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

STANDARD DETAIL DATE: 5/1994 REV: 6/22/2009 GATE VALVE INSTALLATION N.T.S. **el PASO WATER** DETAIL No. 260



GENERAL NOTES:

- REFERENCE CENTERLINE SHALL BE CENTERLINE OF RIGHT OF WAY.
- WATER LINES SHALL BE LOCATED ON NORTH OR EAST SIDES OF DEDICATED STREETS OR ALLEYS.
- SEWER LINES SHALL BE LOCATED ON SOUTH OR WEST SIDES OF DEDICATED STREETS OR ALLEYS.
- RECLAIMED LINES SHALL BE LOCATED ON SOUTH OR WEST SIDES OF DEDICATED STREETS OR ALLEYS.

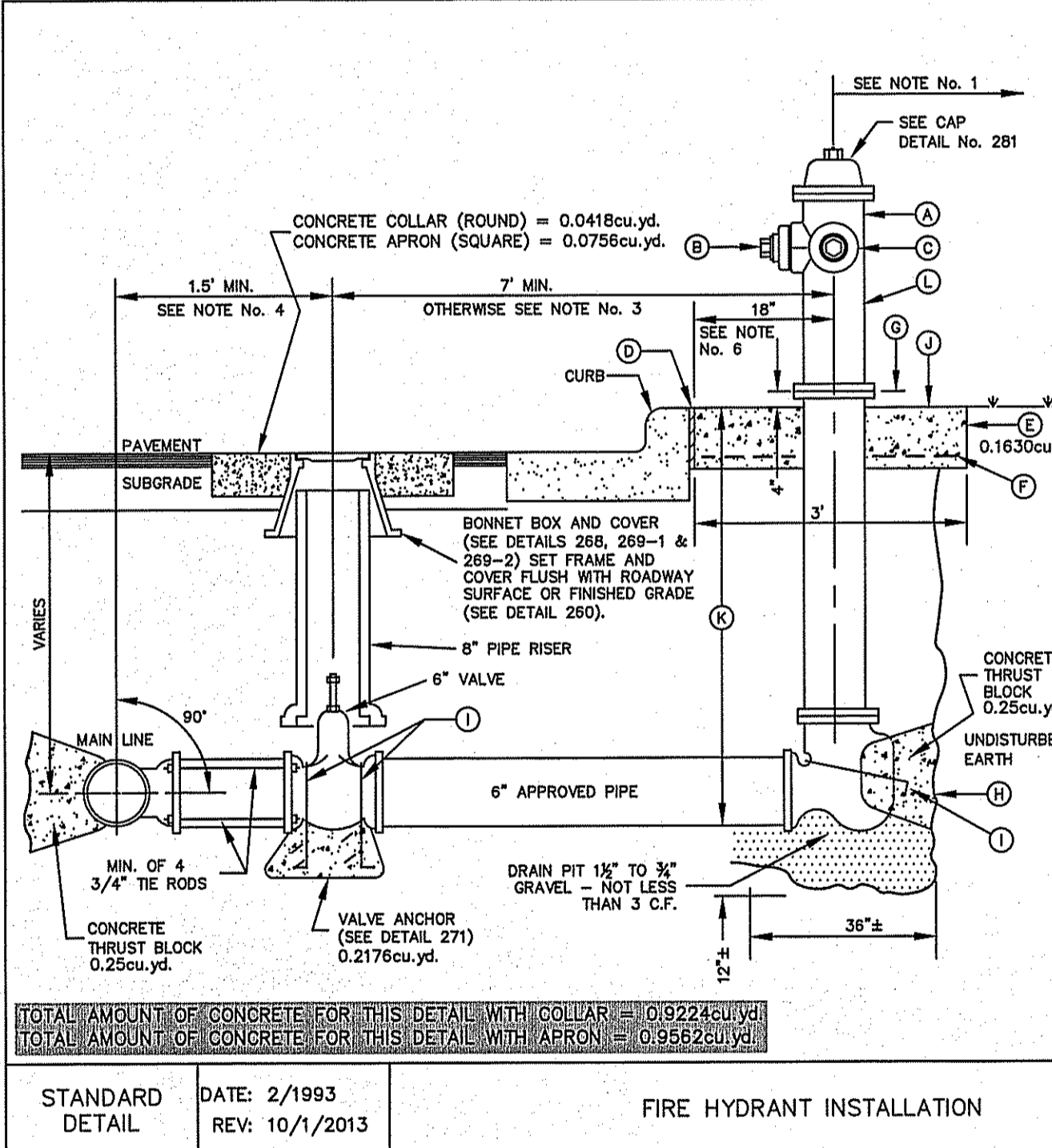
CONSTRUCTION KEY NOTES:

A. DISTANCES FROM CENTERLINE VARY AND SHALL BE ACCORDING TO THE FOLLOWING:

PIPELINE LOCATION WITHIN NEW RIGHT-OF-WAY	OFFSET FROM CENTERLINE**		
	WATER	SEWER	RECLAIMED
RIGHT-OF-WAY WIDTH*			
36 FT.	9 FT.	1 FT.	6 FT.
44 FT.	8 FT.	3 FT.	8 FT.
52 FT.	8 FT.	5 FT.	10 FT.
64 FT.	10 FT.	5 FT.	10 FT.
72 FT.	10 FT.	5 FT.	10 FT.
76 FT.	10 FT.	5 FT.	10 FT.
84 FT.	20 FT.	5 FT.	10 FT.
110 FT.	25 FT.	15 FT.	20 FT.

*RIGHT OF WAY WIDTH SUBJECT TO CHANGE. VERIFY WITH CITY SUBDIVISION ORDINANCE.
 **DISTANCES MAY BE MODIFIED AS NEEDED TO MEET TCEQ SEPARATION REQUIREMENTS. REFER TO DETAILS 160 THRU 163 FOR ADDITIONAL INFORMATION.

STANDARD DETAIL DATE: 03/1994 REV: 3/28/2007 LOCATION FOR UTILITY LINES N.T.S. DETAIL No. 140



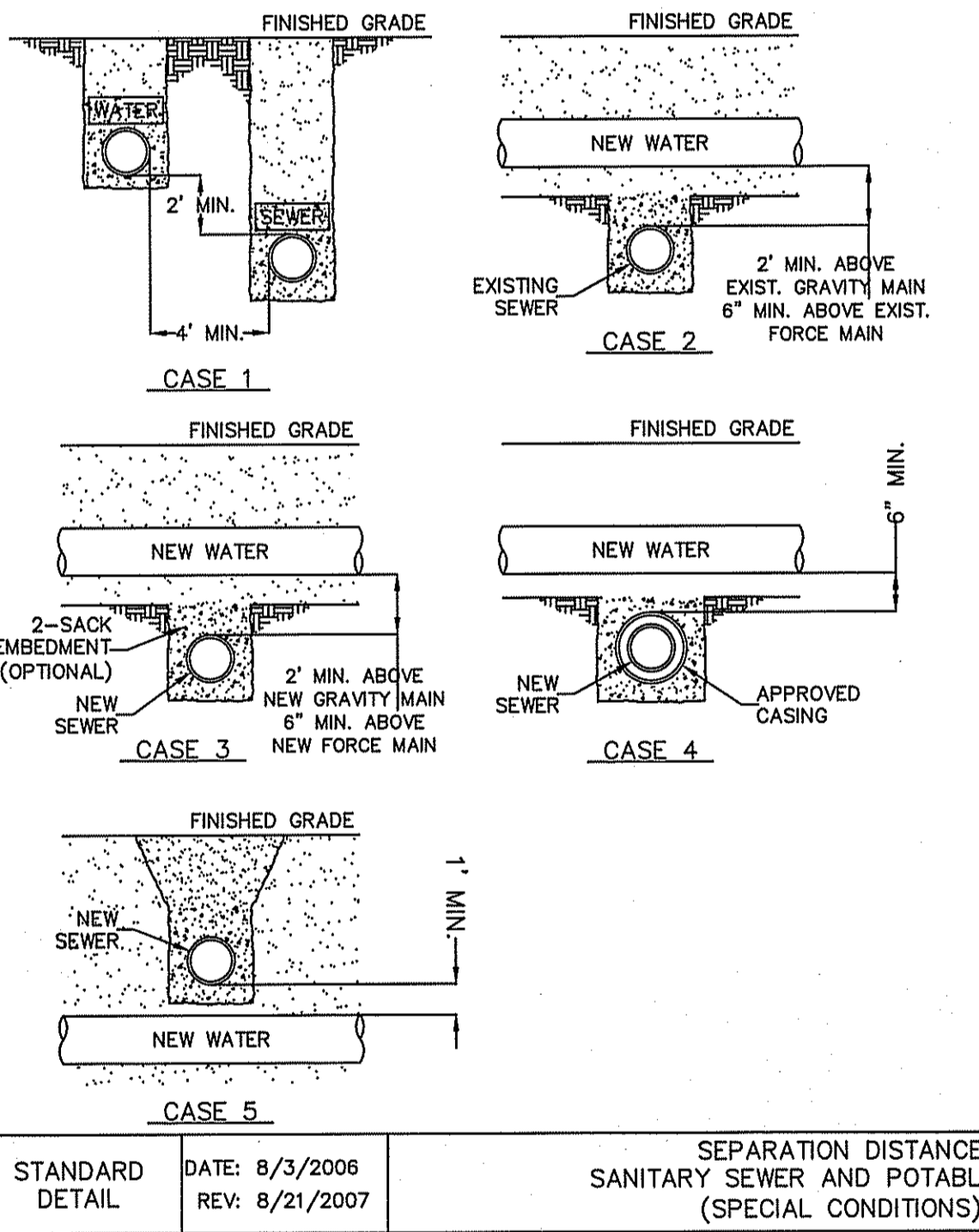
GENERAL NOTES:

- NO OBSTRUCTIONS WILL BE PERMITTED WITHIN 5 FT. IN ALL DIRECTIONS OF FIRE HYDRANT (PER EL PASO MUNICIPAL CODE, TITLE 12). FIRE HYDRANT SHALL NOT BE PLACED IN WHEEL CHAIR RAMP OR DRIVEWAY.
- FIRE HYDRANT SHALL BE LOCATED AT THE BEGINNING OF CURB RETURN OR AT THE PROPERTY LINE COMMON TO ADJOINING LOTS, UNLESS OTHERWISE SHOWN ON PLANS. REFER TO DETAIL No. 282 FOR SPECIAL CASES.
- WHERE DISTANCE IS LESS THAN 7', HYDRANT SHALL BE INSTALLED IN ACCORDANCE WITH DETAIL No. 282.
- VALVE MAY BE CONNECTED TO TEE AT MAIN LINE. USE FLANGED MECHANICAL JOINT ENDS. WHERE SPOOL IS REQUIRED BETWEEN TEE AND VALVE, USE FLANGED MECHANICAL ENDS WITH 3/4" DIAMETER TIE RODS.
- COMPLY WITH REQUIREMENTS OF AWWA C-502, DRY BARREL FIRE HYDRANTS AND AWWA C-550, PROTECTIVE EPOXY INTERIOR COATINGS FOR VALVES AND HYDRANTS.
- WHEN INSTALLATION IS WITHIN 7'00" RIGHT OF WAY, HYDRANT SHALL NOT BE PLACED IN SIDEWALK AREA OR ANY CLOSER THAN 5' FROM BACK OF CURB.

CONSTRUCTION KEY NOTES:

- FIRE HYDRANT PER SPEC.
- PUMPER NOZZLE 4" TO BE FACING THE TRAVELED WAY, UNLESS OTHERWISE NOTED IN THE PLANS.
- HOSE NOZZLE 2 1/2".
- 1/2" PREMOLDED EXPANSION JOINT WITH 1" TOP FILLER.
- 3"x3"x8" CONC. SQ. PAD TO BE CONSTRUCTED AROUND FIRE HYDRANT'S CENTER LINE WHEN NOT LOCATED WITHIN SIDEWALK OR CONC. AREA.
- #10; 6/6 WWF.
- CONTROLLED ELEVATION LINE, LEVEL IN ALL DIRECTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING TOP FLANGE OF THE HYDRANT TO CONTROLLED ELEVATION.
- CONC. THRUST BLOCK, APPROX. 2'x2'x3' TO BE POURED AGAINST UNDISTURBED EARTH, F.H. WEEP HOLE MUST BE UNOBSTRUCTED.
- 2"x1/4" STEEL ANCHOR PINS.
- TOP OF SLAB SHALL BE AT CURB LEVEL 4" BELOW THE BREAK LINE OF THE HYDRANT. UNDER SPECIAL CONDITIONS THE ENGINEER MAY ALLOW VARIATIONS TO THIS CONSTRUCTION.
- MAXIMUM OF ONE (1) SPOOL EXTENSION ALLOWED TO MAINTAIN THE CONTROLLED ELEVATION LINE TO TOP OF SLAB. ADDITIONAL ADJUSTMENT MUST BE MADE WITH OFFSETS & FITTINGS AS NEEDED.
- REQUIRED - DAVISON ANTI TERROISM CORROSION RESISTANT VALVE KIT (DATV).

STANDARD DETAIL DATE: 2/1993 REV: 10/1/2013 FIRE HYDRANT INSTALLATION N.T.S. **el PASO WATER** DETAIL No. 280-1



GENERAL NOTES:

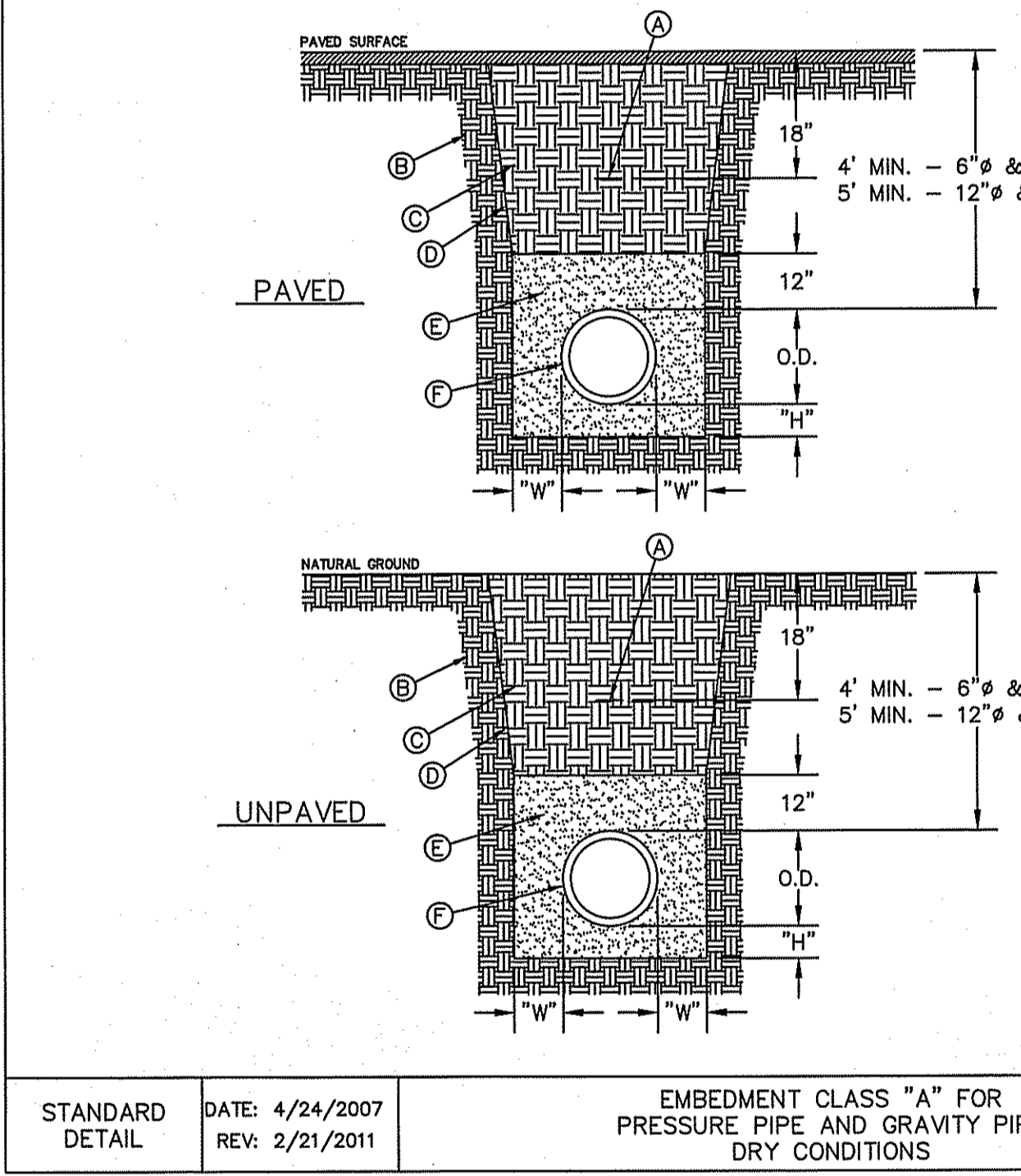
- NEW OR EXISTING POTABLE WATER AND SANITARY SEWER MAINS.
- SEPARATION DISTANCES SHALL FOLLOW TEXAS COMMISSION ON ENVIRONMENTAL QUALITY STANDARD REQUIREMENTS.

CONSTRUCTION KEY NOTES:

WHEN STANDARD NINE (9) FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, SEPARATION SHALL BE DETERMINED ACCORDING TO THE FOLLOWING CONDITIONS:

- GRAVITY SANITARY SEWER MAIN OR FORCE MAIN PARALLEL TO POTABLE WATER MAIN (PER TCEQ §290.44(a)(4)(i) AND §290.44(a)(5)(ii)).
 - LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 - SEWER MATERIALS: EXISTING GRAVITY MAIN (PVC SDR35 OR CLAY) OR FORCE MAIN TO REMAIN IF NOT LEAKING-IF LEAKING, MUST BE REPLACED WITH PVC (150 PSI) OR DI. NEW GRAVITY MAIN OR FORCE MAIN REQUIRES ONE PIPE SEGMENT OF PVC (150 PSI) OR DI. SEPARATE TRENCHES SHALL BE USED.
- NEW POTABLE WATER MAIN CROSSING EXISTING GRAVITY SANITARY SEWER MAIN OR EXISTING FORCE MAIN (PER TCEQ §290.44(a)(4)(ii) AND §290.44(a)(5)(iii)).
 - LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 - SEWER MATERIALS: EXISTING GRAVITY MAIN (PVC SDR35 OR CLAY) OR FORCE MAIN TO REMAIN IF NOT LEAKING-IF LEAKING, REPLACE ONE PIPE SEGMENT PER CASE 3 REQUIREMENTS.
 - CENTER ONE SEGMENT OF WATER PIPE OVER SEWER MAIN OR FORCE MAIN.
 - MINIMUM PIPE SEGMENT LENGTH FOR WATER PIPE SHALL BE 18 FEET LONG.
- NEW POTABLE WATER MAIN CROSSING NEW GRAVITY SANITARY SEWER MAIN OR NEW FORCE MAIN (PER TCEQ §290.44(a)(4)(iii) AND §290.44(a)(5)(iv)).
 - LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 - SEWER MATERIALS: NEW GRAVITY MAIN - PVC (150 PSI) OR DI REQUIRED, CENTER UNDER WATER MAIN. NEW FORCE MAIN - PVC (150 PSI) OR DI REQUIRED, FORCE MAIN TO BE EMBEDDED IN CEMENT STABILIZED BACKFILL. THE TOTAL LENGTH OF ONE PIPE PLUS 12" BEYOND THE JOINT AT EACH END.
 - CENTER ONE SEGMENT OF WATER PIPE OVER SEWER PIPE OR FORCE MAIN.
 - MINIMUM PIPE SEGMENT LENGTH FOR WATER AND SEWER SHALL BE 18 FEET LONG.
 - FOR NEW GRAVITY SEWER ONLY, IN LIEU OF PVC (150 PSI) OR DI, INSTALL ONE PIPE SEGMENT OF SDR35 SEWER MAIN MUST BE EMBEDDED IN CEMENT STABILIZED BACKFILL THE TOTAL LENGTH OF ONE PIPE PLUS 12" BEYOND THE JOINT AT EACH END.
- NEW POTABLE WATER MAIN CROSSING NEW GRAVITY SANITARY SEWER MAIN OR NEW FORCE MAIN (PER TCEQ §290.44(a)(4)(iv) AND §290.44(a)(5)(v)).
 - LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 - SEWER MATERIALS: NEW GRAVITY MAIN - SDR35 ACCEPTABLE, NEW FORCE MAIN - PVC (150 PSI) OR DI REQUIRED, IN ADDITION, SEWER MAIN OR FORCE MAIN MUST BE ENCASED IN DI OR STEEL, TWO NOMINAL SIZES LARGER THAN MAIN AND AT LEAST 18 FEET LONG.
 - CENTER CASING PIPE ON WATER MAIN.
- NEW GRAVITY SANITARY SEWER MAIN OR NEW FORCE MAIN CROSSING NEW POTABLE WATER MAIN (PER TCEQ §290.44(a)(4)(v) AND §290.44(a)(5)(vi)).
 - LOCATION: SEWER OR FORCE MAIN ABOVE WATER.
 - NEW GRAVITY MAIN OR FORCE MAIN REQUIRES ONE PIPE SEGMENT OF PVC (150 PSI) OR DI. IN ADDITION, WATER MUST BE DI OR STEEL, OR ENCASED IN DI OR STEEL, TWO NOMINAL SIZES LARGER THAN MAIN AND AT LEAST 18 FEET LONG.
 - CENTER ONE SEGMENT OF SEWER PIPE ON WATER MAIN.

STANDARD DETAIL DATE: 8/3/2006 REV: 8/21/2007 SEPARATION DISTANCE SANITARY SEWER AND POTABLE WATER (SPECIAL CONDITIONS) N.T.S. DETAIL No. 161



GENERAL NOTES:

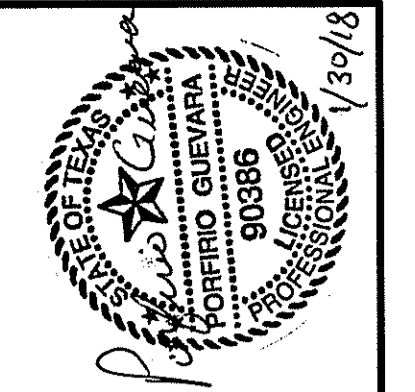
- BEDDING FOR PRESSURE AND GRAVITY PIPE IN DRY CONDITIONS.
- PROVIDE TRENCH SAFETY SYSTEM FOR TRENCH DEPTHS GREATER THAN 5 FEET.
- IF THE NATIVE MATERIAL EXCAVATED FROM THE TRENCH IS UNSUITABLE AS BACKFILL MATERIAL, OR THE REQUIRED COMPACTION IS UNAVAILABLE, THE CONTRACTOR SHALL, AT HIS EXPENSE, IMPORT SELECT MATERIAL TO BE MIXED WITH OR USED IN PLACE OF THE NATIVE MATERIAL. SELECT MATERIAL MUST BE APPROVED BY EPWJ. SUBSTITUTE SOIL CEMENT SLURRY (1-SACK) IF REQUIRED IN SPECS.

CONSTRUCTION KEY NOTES:

- APPROVED MARKING TAPE.
- UNDISTURBED STABLE MATERIAL.
- NATIVE MATERIAL BACKFILL.
 - PAVED CONDITION: COMPACT TO 90% DENSITY PER ASTM D-1557 MODIFIED PROCTOR.
 - UNPAVED CONDITION: COMPACT TO 85% DENSITY PER ASTM D-1557 MODIFIED PROCTOR.
- (*SEE NOTE #3 IF THESE PREVIOUS CONDITIONS CANNOT BE MET.)
- SLOPE TRENCH IN SANDY SOIL CONDITIONS.
- USE CLASS II OR CLASS III SAND PER ASTM D-2487. NATIVE MATERIAL OR IMPORTED SELECT MATERIAL MEETING OR EXCEEDING THIS REQUIREMENT MAY BE USED. COMPACT TO 85% DENSITY PER ASTM D-1557 MODIFIED PROCTOR (OR 90% D-698 STANDARD PROCTOR).
- APPROVED PIPE.
- TRENCH DIMENSIONS AS FOLLOWS:

PIPE DIAMETER	"H"
6" - 30"	4"
GREATER THAN 30"	6"
PIPE DIAMETER	"W"
6" - 30"	8"
GREATER THAN 30"	12"

STANDARD DETAIL DATE: 4/24/2007 REV: 2/21/2011 EMBEDMENT CLASS "A" FOR PRESSURE PIPE AND GRAVITY PIPE DRY CONDITIONS N.T.S. DETAIL No. 171

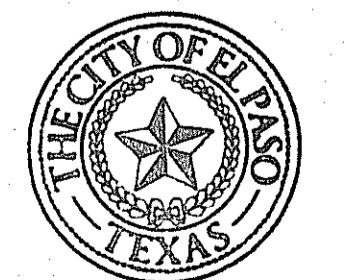


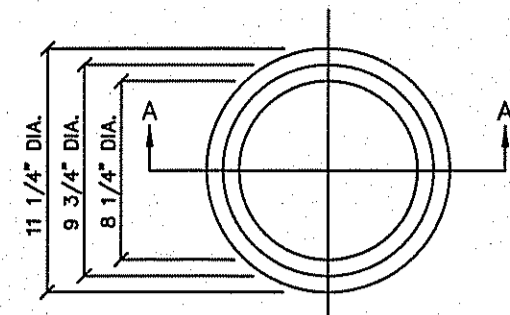
GUEVARA ENGINEERING
 P.O. BOX 961514
 EL PASO, TEXAS 79996
 (915) 203-5826
 STATE REGISTRATION NO. F-12421

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SUBDIVISION
 CITY OF EL PASO
 EL PASO COUNTY, TEXAS

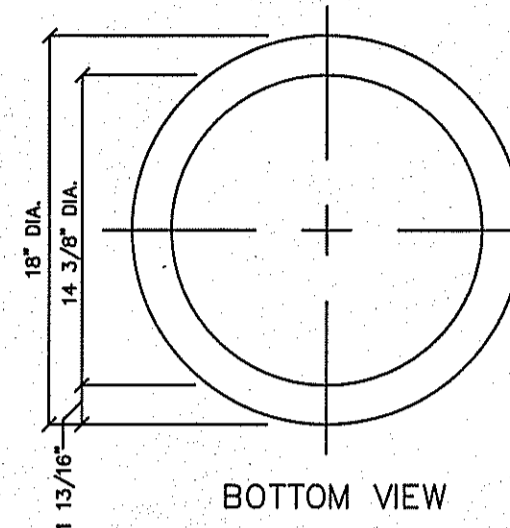
WATER DETAILS

DATE: NOVEMBER 2016
 SCALE: AS SHOWN
 JOB NO.:
 SHEET NO.:
SHT. 6 OF 8

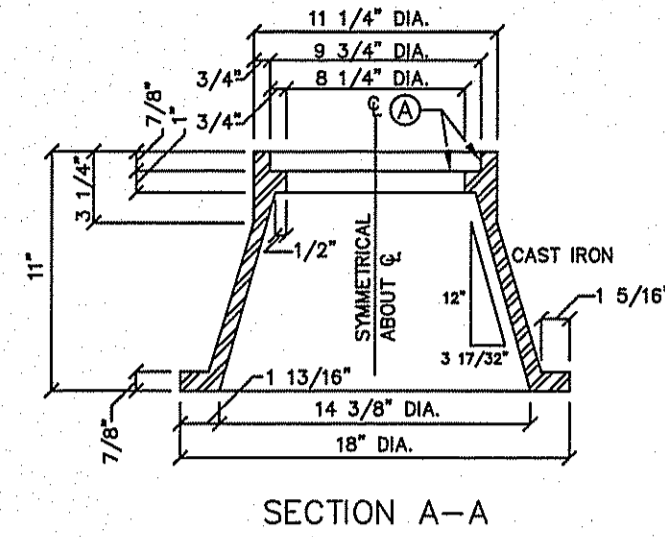




TOP VIEW



BOTTOM VIEW

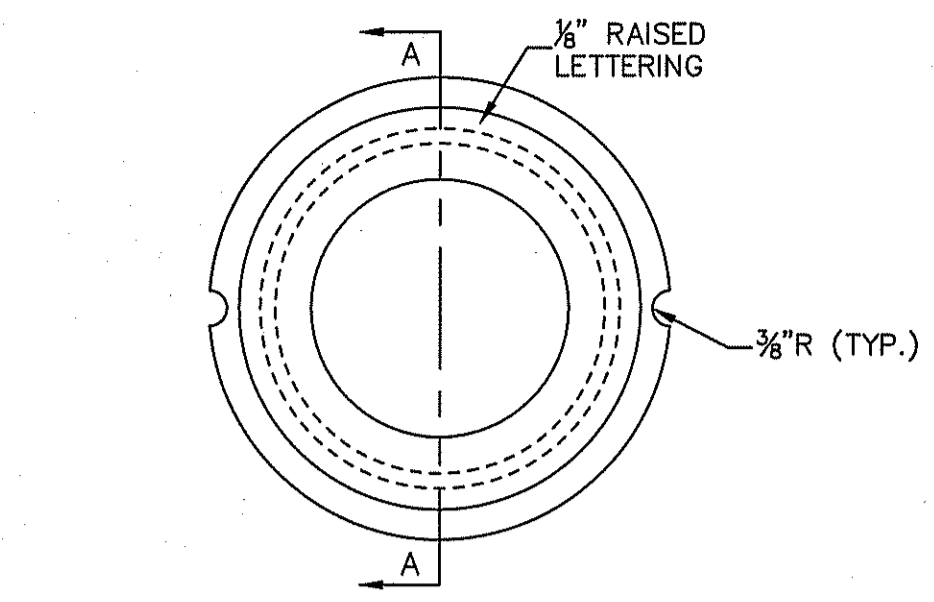


SECTION A-A

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.

STANDARD DETAIL DATE: 2/1994 REV: N.T.S. **el paso WATER** DETAIL No. 268 BONNET BOX

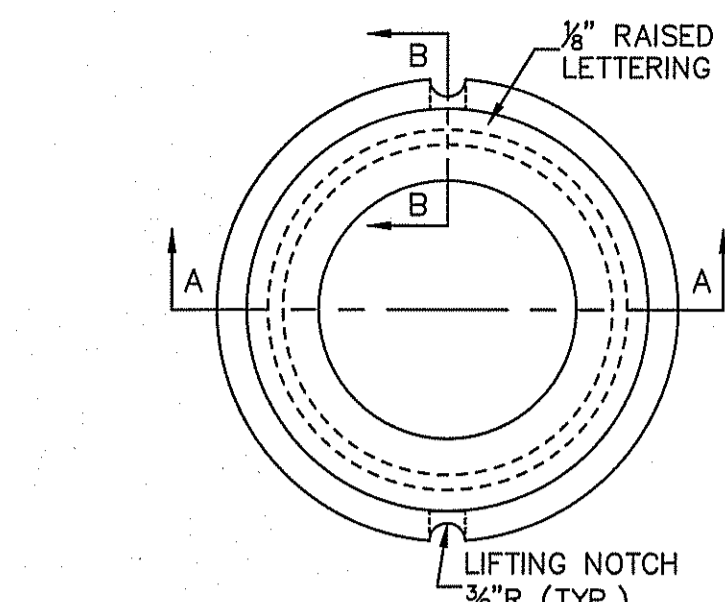


SECTION A-A

GENERAL NOTES:
 1. CASTINGS TO SMOOTH AND VOID OF AIR HOLES.
 2. WEIGHT OF COVER IS 10 POUNDS.

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

STANDARD DETAIL DATE: 2/1994 REV: 11/1/2007 N.T.S. **el paso WATER** DETAIL No. 269-1 BONNET BOX COVER

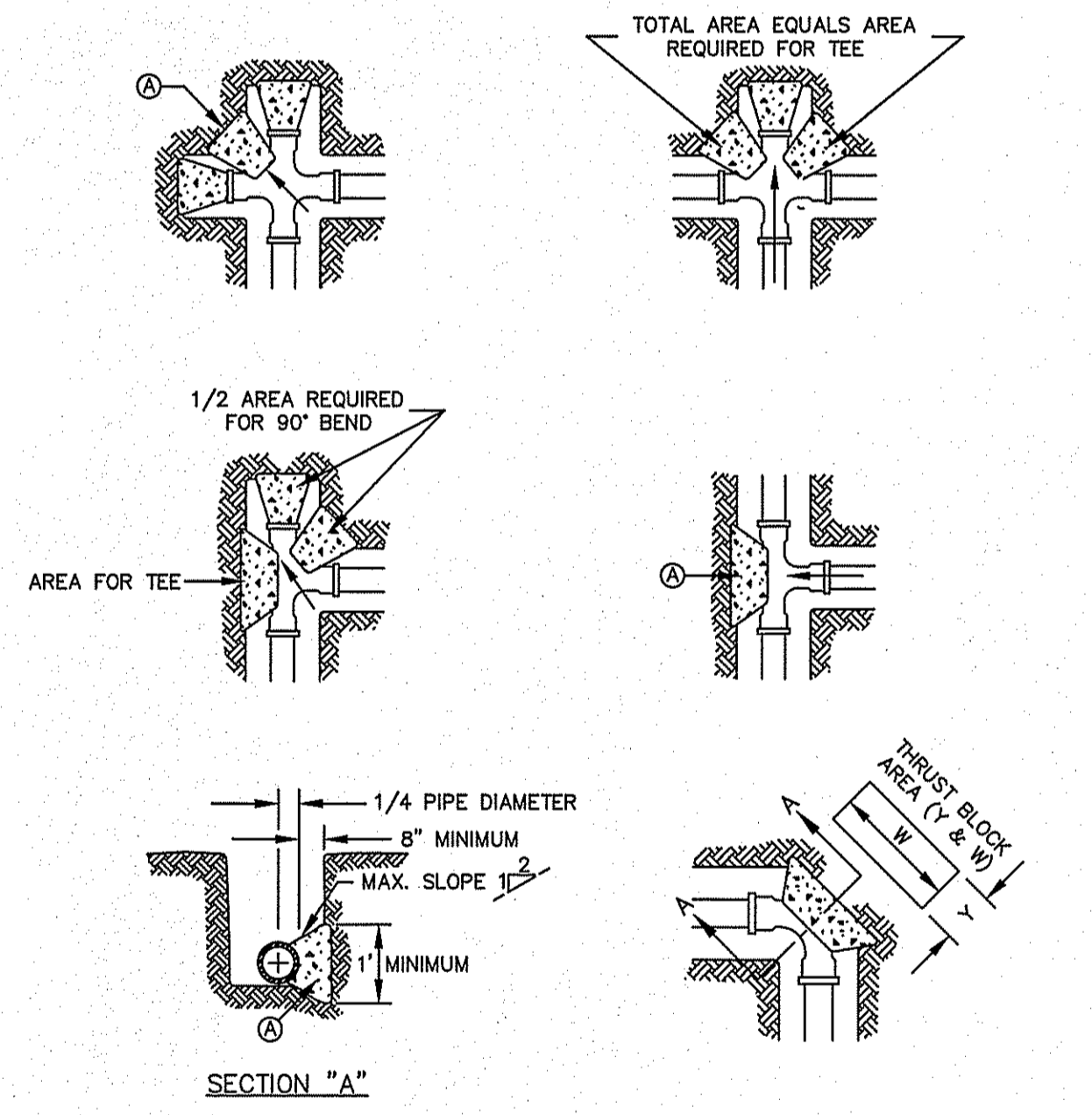


SECTION A-A

GENERAL NOTES:
 1. CASTINGS TO 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.

STANDARD DETAIL DATE: 2/16/2006 REV: 12/14/2007 N.T.S. **el paso WATER** DETAIL No. 269-2 BONNET BOX COVER (FLIP RESISTANT)

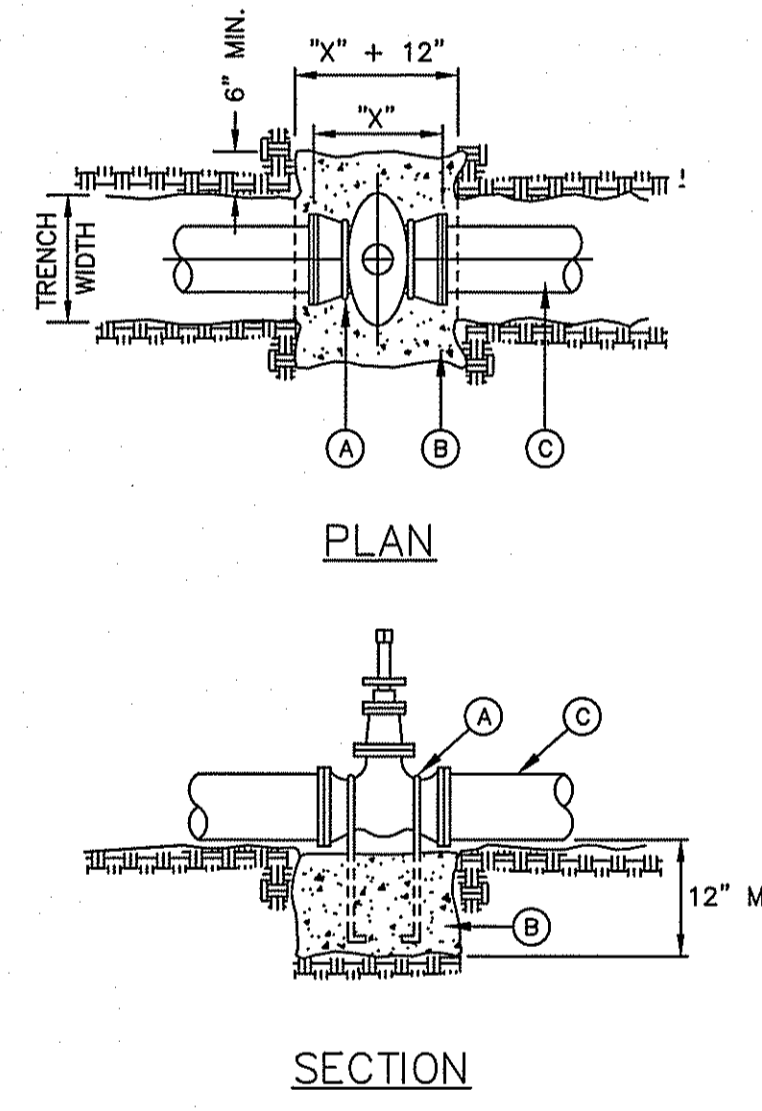


GENERAL NOTES:
 1. TABLE IS BASED ON 2000#/SQ. FT. SOIL. IF CONDITIONS ARE FOUND TO INDICATE SOIL BEARING IS LESS, THE AREAS SHALL BE INCREASED ACCORDINGLY.
 2. AREAS FOR PIPE LARGER THAN 18" SHALL BE CALCULATED.
 3. CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 2500 PSI.
 4. THRUST BLOCK IS 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, PLUG 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

STANDARD DETAIL DATE: 2/1994 REV: 8/7/2006 N.T.S. **el paso WATER** DETAIL No. 270 CONCRETE THRUST BLOCKING

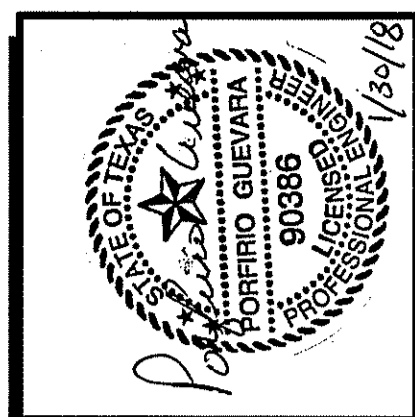


GENERAL NOTES:
 1. THE ENGINEER SHALL PROVIDE DESIGN FOR ALL VALVES GREATER THAN 12".
 2. COMPLY WITH REQUIREMENTS OF AWWA C-550, PROTECTIVE EPOXY INTERIOR COATINGS FOR VALVES.

CONSTRUCTION KEY NOTES:
 A. TWO NO. 5 REBAR HAIR PINS, PAINT UNEMBEDDED PORTION OF REBARS WITH TWO COATS OF COAL TAR EPOXY.
 B. CONCRETE VALVE SUPPORT, 2500 PSI. CONCRETE.
 C. APPROVED PIPE.

NOTE: Calculated for Mueller A=2560 Resilient Wedge Gate Valve - M.J. x M.J.
 TOTAL AMOUNT OF CONCRETE FOR THIS DETAIL 4" VALVE = 0.2037cu.yd.
 TOTAL AMOUNT OF CONCRETE FOR THIS DETAIL 6" VALVE = 0.2178cu.yd.
 TOTAL AMOUNT OF CONCRETE FOR THIS DETAIL 8" VALVE = 0.2142cu.yd.
 TOTAL AMOUNT OF CONCRETE FOR THIS DETAIL 10" VALVE = 0.2814cu.yd.
 TOTAL AMOUNT OF CONCRETE FOR THIS DETAIL 12" VALVE = 0.2765cu.yd.

STANDARD DETAIL DATE: 2/1994 REV: 12/12/2011 N.T.S. **el paso WATER** DETAIL No. 271 VALVE ANCHOR



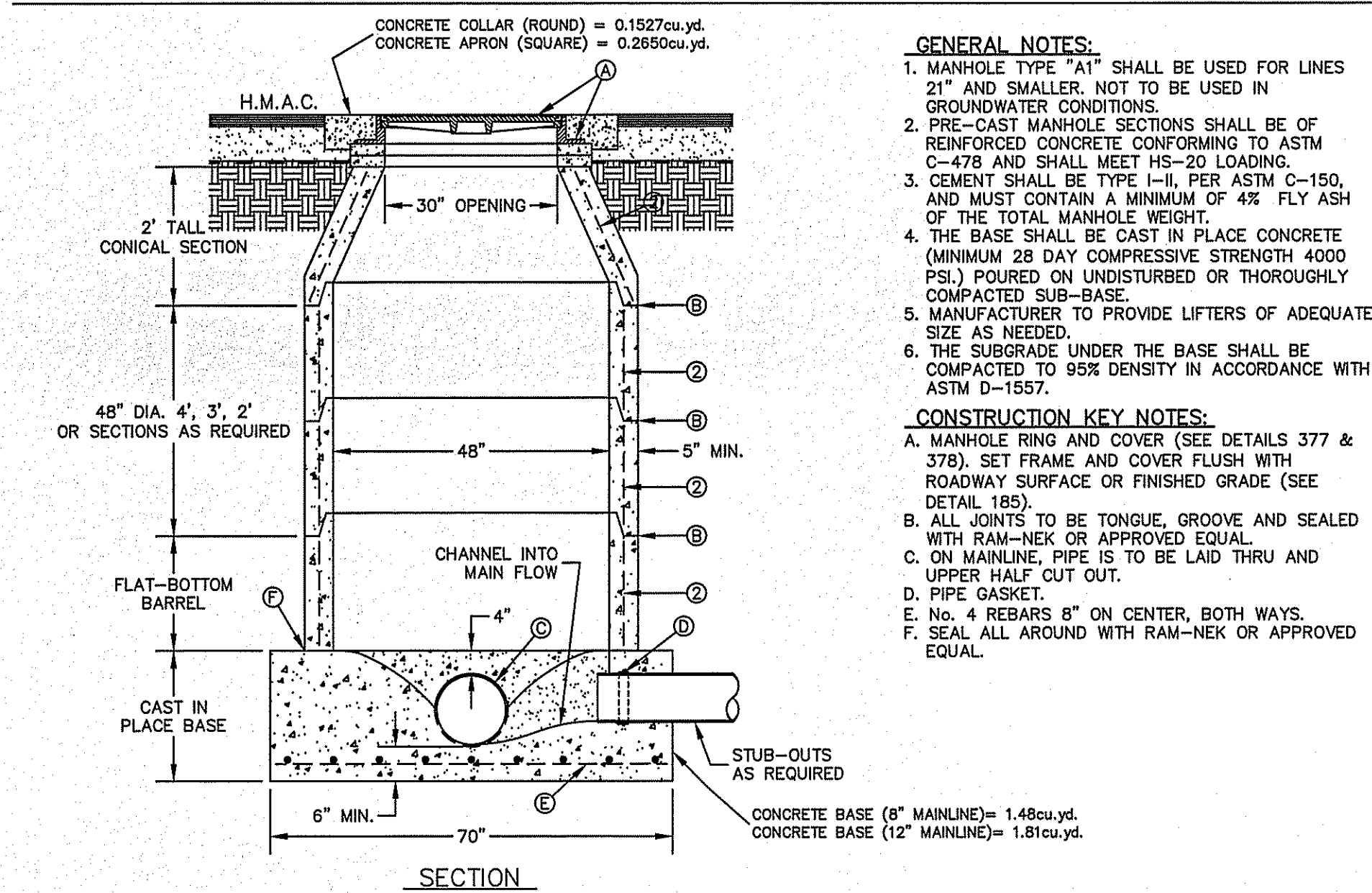
CIVIL ENGINEER
GUEVARA ENGINEERING
 P.O. BOX 961514
 EL PASO, TEXAS 79996
 (915) 203-5826
 STATE REGISTRATION NO. F-12421

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 EL PASO COUNTY, TEXAS



WATER DETAILS

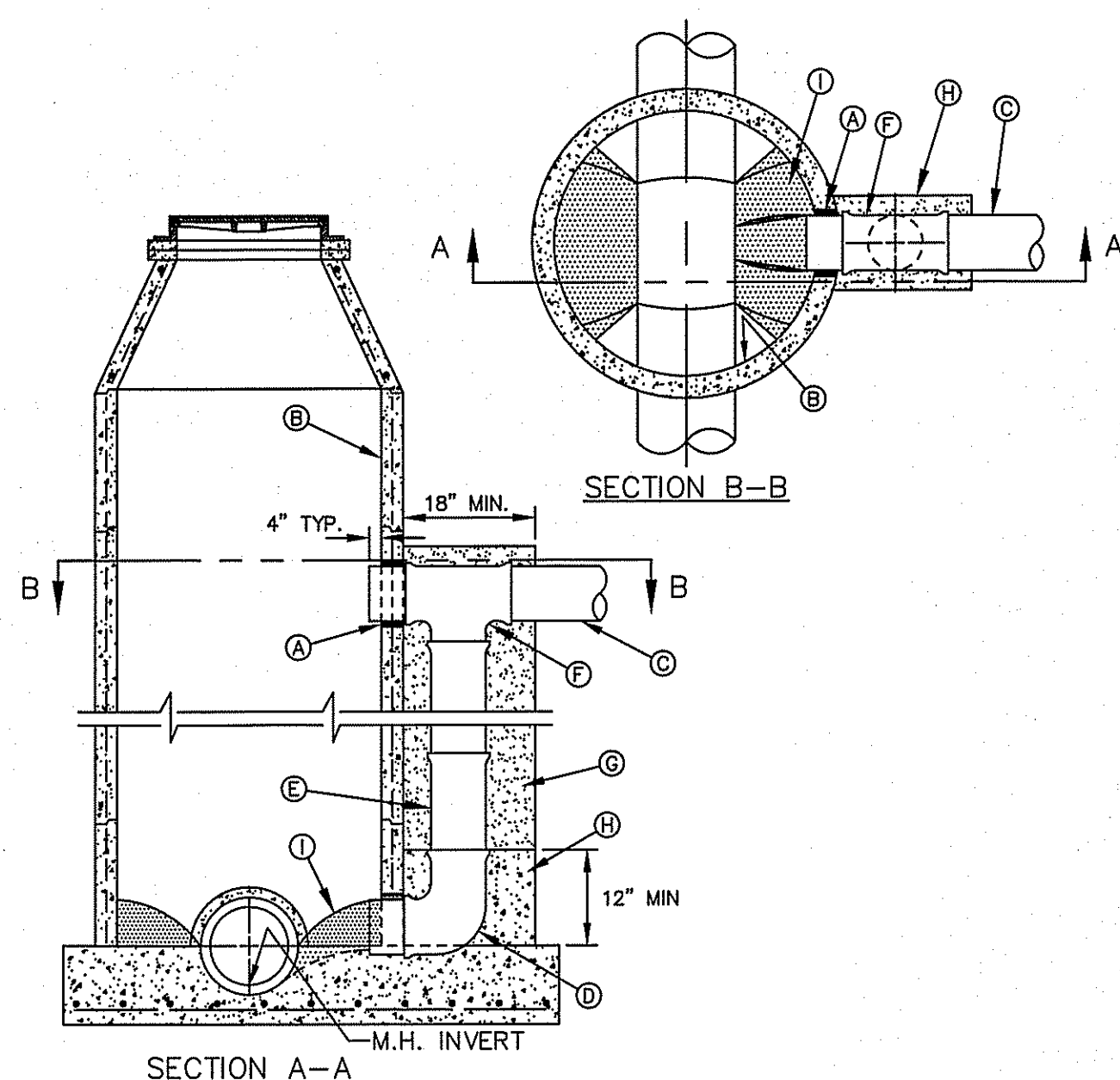
DATE: NOVEMBER 2016
 SCALE: AS SHOWN
 JOB NO.:
 SHEET NO.: SHT. 7 OF 8



- GENERAL NOTES:**
- MANHOLE TYPE "A1" SHALL BE USED FOR LINES 21" AND SMALLER. NOT TO BE USED IN GROUNDWATER CONDITIONS.
 - PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING.
 - CEMENT SHALL BE TYPE I-II, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL MANHOLE WEIGHT.
 - THE BASE SHALL BE CAST IN PLACE CONCRETE (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI.) POURED ON UNDISTURBED OR THOROUGHLY COMPACTED SUB-BASE.
 - MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
 - THE SUBGRADE UNDER THE BASE SHALL BE COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.
- CONSTRUCTION KEY NOTES:**
- MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
 - ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.
 - ON MAINLINE, PIPE IS TO BE LAID THRU AND UPPER HALF CUT OUT.
 - PIPE GASKET.
 - NO. 4 REBARS 8" ON CENTER, BOTHWAYS.
 - SEAL ALL AROUND WITH RAM-NEK OR APPROVED EQUAL.

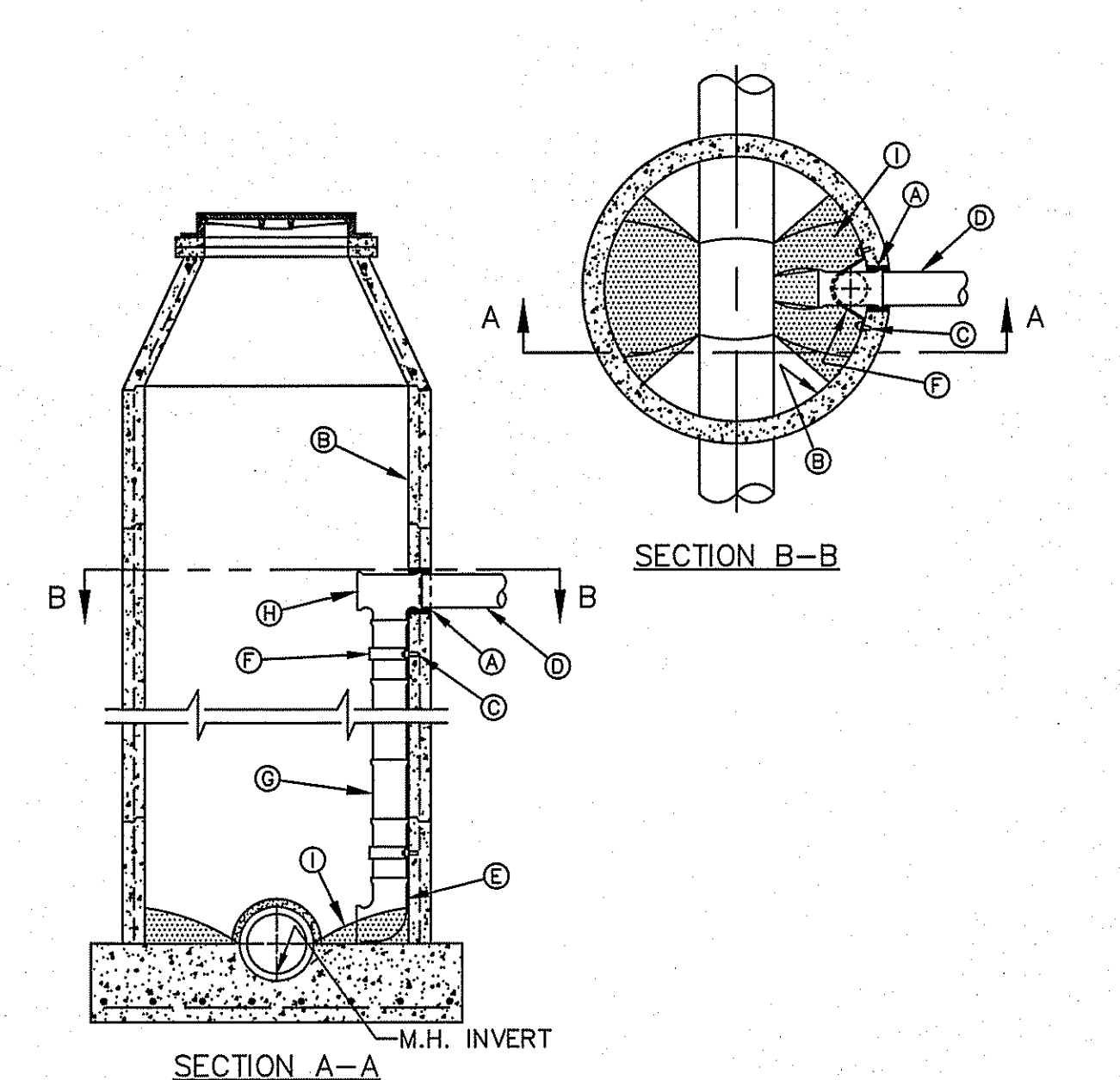
AMOUNT OF CONCRETE FOR THIS DETAIL WITH COLLAR (6" MAINLINE) = 1.65cu.yd. (12" MAINLINE) = 1.96cu.yd.
 AMOUNT OF CONCRETE FOR THIS DETAIL WITH APRON (6" MAINLINE) = 1.75cu.yd. (12" MAINLINE) = 2.08cu.yd.

STANDARD DATE: 11/1992 TAIL REV: 12/1/2011	MANHOLE TYPE "A1"	N.T.S.	el PASO WATER	DETAIL No. 370-2
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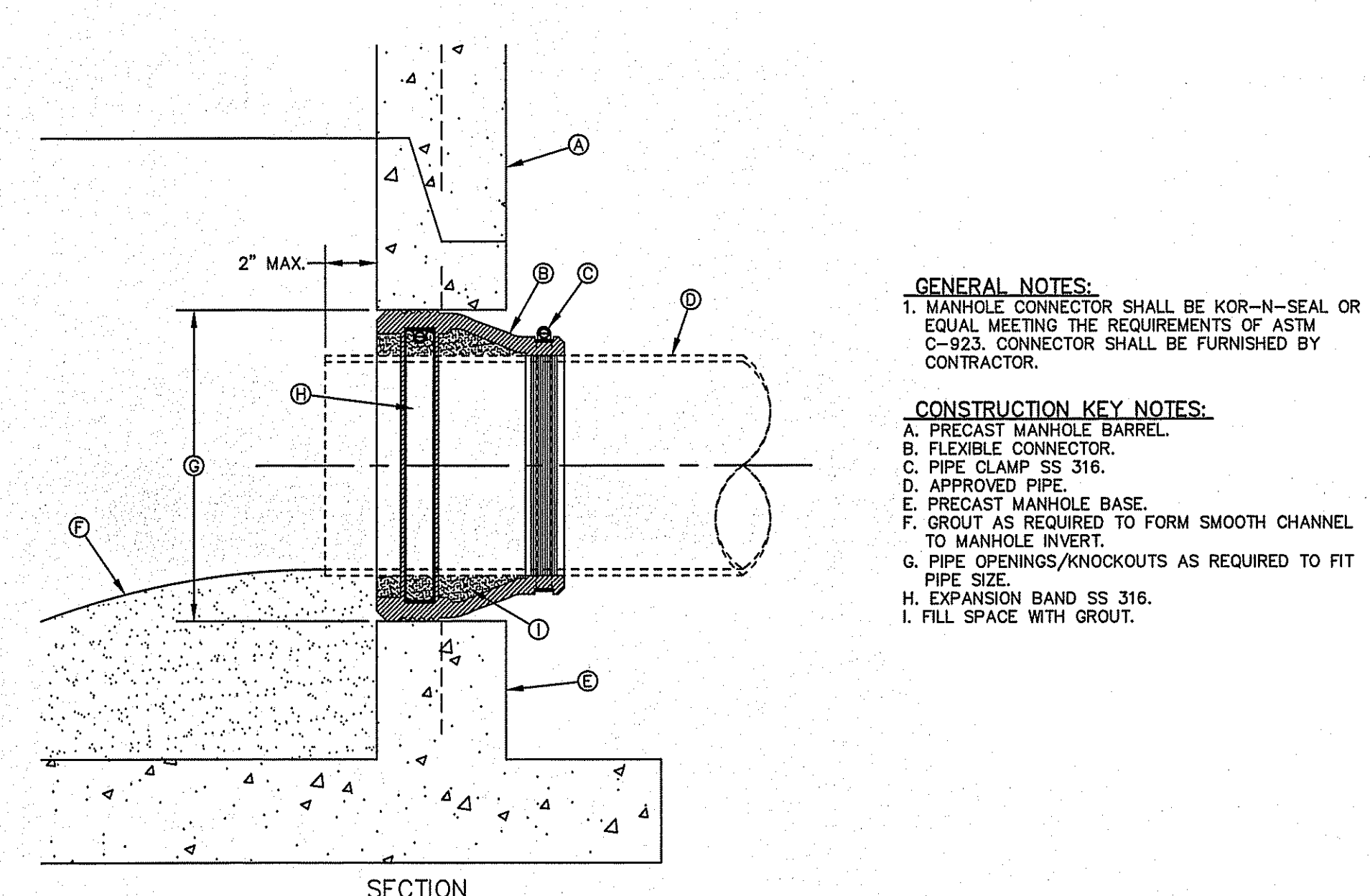
- GENERAL NOTES:**
- DROP CONNECTION SHOWN MAY BE USED ON ALL MANHOLE TYPES (NOT RECOMMENDED IN GROUND WATER CONDITIONS).
 - DROP CONNECTION TO BE CONSTRUCTED WHEN INVERT ELEVATION OF INFLUENT PIPE IS 3 FEET (OR GREATER) ABOVE THE MANHOLE INVERT.
- CONSTRUCTION KEY NOTES:**
- PIPE OPENINGS IN MANHOLE RISERS SHALL HAVE COMPRESSION TYPE FLEXIBLE PIPE TO MANHOLE APPROVED EQUAL.
 - MANHOLE WALL.
 - INFLUENT SEWER PIPE.
 - 90° BEND (P.V.C.)
 - P.V.C. PIPE (SDR. 35)
 - P.V.C. TEE
 - CONCRETE FLOWABLE FILL
 - 2500 psi CONCRETE
 - USE GROUT TO FORM A SMOOTH CHANNEL TO MANHOLE INVERT

STANDARD DATE: 3/18/1998 TAIL REV: 6/19/2009	DROP CONNECTION - EXTERNAL MANHOLE INSTALLATION	N.T.S.	el PASO WATER	DETAIL No. 375-1
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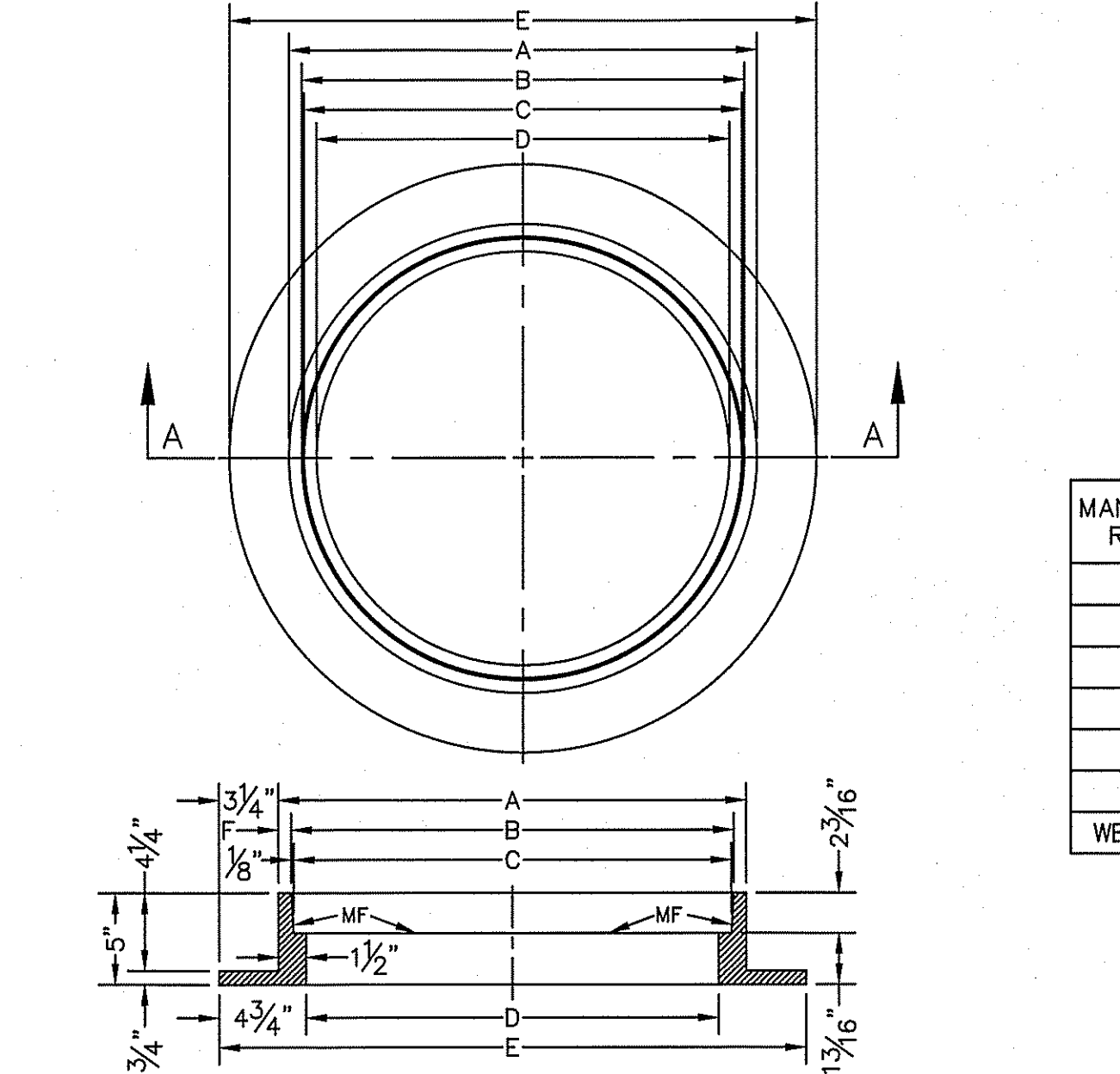
- GENERAL NOTES:**
- DROP CONNECTION SHOWN IS FOR 8" INFLUENT PIPE. FOR LARGER SIZE COLLECTOR LINE, MANHOLE SIZE SHALL BE INCREASED AS NECESSARY TO PROVIDE ADEQUATE CLEARANCE BETWEEN MANHOLE WALL & DROP CONNECTION PIPING AND SHALL ACCOMMODATE THE EPWU'S CONFINED SPACE ENTRY PERMIT PROGRAM.
 - VERIFY MANHOLE STRUCTURAL INTEGRITY (I.E. BRICK TYPE MANHOLES) PRIOR TO INSTALLATION OF ANCHOR STRAPS & EXPANSION BOLTS (SEE NOTES "C" & "F" BELOW).
 - ANCHOR STRAPS & BOLTS, SHALL HAVE ONE HEAVY COAT OF POLYAMIDE CURED COAL TAR EPOXY TO PREVENT CORROSION.
 - DROP CONNECTION TO BE CONSTRUCTED WHEN INVERT ELEVATION OF INFLUENT PIPE IS 3 FEET (OR GREATER) ABOVE THE MANHOLE INVERT.
- CONSTRUCTION KEY NOTES:**
- PIPE OPENINGS IN MANHOLE RISERS SHALL HAVE COMPRESSION TYPE FLEXIBLE PIPE TO MANHOLE APPROVED EQUAL.
 - MANHOLE WALL.
 - 1/2" STAINLESS STEEL EXPANSION BOLT TO HAVE 2" MIN. ANCHORAGE INTO MANHOLE.
 - 8" INFLUENT SEWER PIPE.
 - 8"-90° BEND (P.V.C.)
 - 2" WIDE X 3/16" THICK STAINLESS STEEL (T316) STRAP @ 4' O.C. (AS REQUIRED)
 - 8" P.V.C. PIPE (SDR. 35)
 - 8" X 8" P.V.C. TEE
 - USE GROUT TO FORM A SMOOTH CHANNEL TO MANHOLE INVERT

STANDARD DATE: 4/1997 TAIL REV: 6/19/2009	DROP CONNECTION - INTERNAL MANHOLE INSTALLATION	N.T.S.	el PASO WATER	DETAIL No. 375-2
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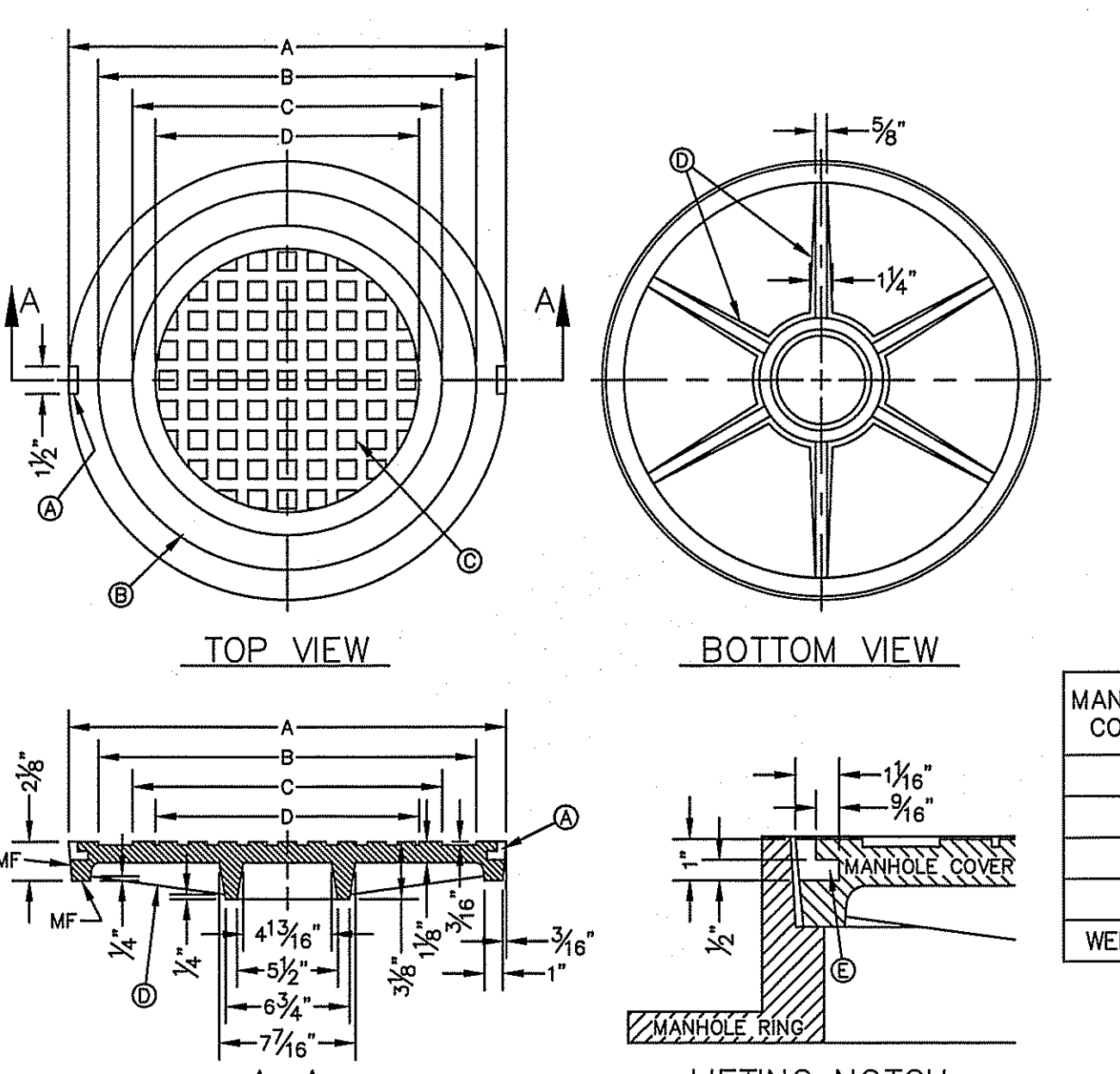
- GENERAL NOTES:**
- MANHOLE CONNECTOR SHALL BE KOR-N-SEAL OR EQUAL MEETING THE REQUIREMENTS OF ASTM C-923. CONNECTOR SHALL BE FURNISHED BY CONTRACTOR.
- CONSTRUCTION KEY NOTES:**
- PRECAST MANHOLE BARREL.
 - FLEXIBLE CONNECTOR.
 - PIPE CLAMP SS 316.
 - APPROVED PIPE.
 - PRECAST MANHOLE BASE.
 - GROUT AS REQUIRED TO FORM SMOOTH CHANNEL TO MANHOLE INVERT.
 - PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE.
 - EXPANSION BAND SS 316.
 - FILL SPACE WITH GROUT.

STANDARD DATE: 11/1992 TAIL REV: 8/13/2009	PIPE CONNECTION TO MANHOLE	N.T.S.	el PASO WATER	DETAIL No. 376
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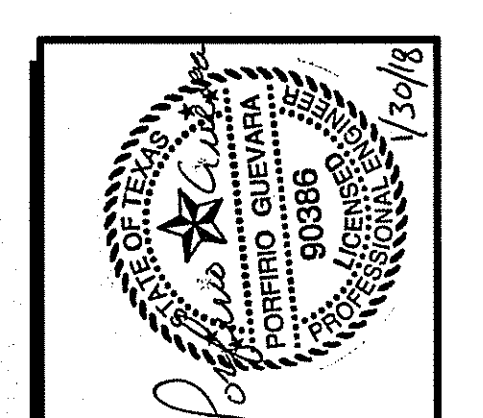
- GENERAL NOTES:**
- MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 - CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 - CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 - AS-CAST DIMENSIONS MAY VARY 1/8" ± / PER FOOT (AASHTO M306-07).
 - WEIGHT MAY VARY 5% ± (AASHTO M306-07).
- | MANHOLE RING | MANHOLE - ALL TYPES | *MANHOLE TYPE A, A1, A2 & C |
|--------------|---------------------|-----------------------------|
| A | 33" | 25 1/2" |
| B | 31 1/4" | 24 1/8" |
| C | 31 1/2" | 23 7/8" |
| D | 30" | 22 1/2" |
| E | 30 1/2" | 32" |
| F | 5 1/2" | 1 1/2" |
| WEIGHT | 205 lbs. | 170 lbs. |
- *OBSOLETE - DO NOT USE (FOR REFERENCE ONLY)

STANDARD DATE: 11/1992 TAIL REV: 2/21/2011	SEWER MANHOLE RING	N.T.S.	el PASO WATER	DETAIL No. 377
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- GENERAL NOTES:**
- MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 - CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 - CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 - AS-CAST DIMENSIONS MAY VARY 1/8" ± / PER FOOT (AASHTO M306-07).
 - WEIGHT MAY VARY 5% ± (AASHTO M306-07).
- CONSTRUCTION KEY NOTES:**
- LIFTING NOTCH.
 - 3/8" RAISED LETTERING.
 - 1" SQUARES (3/8" TALL) WITH 5/8" SPACE BETWEEN.
 - REINFORCING RIBS.
 - SLOT.
- | MANHOLE COVER | MANHOLE - ALL TYPES | *MANHOLE TYPE A, A1, A2 & C |
|---------------|---------------------|-----------------------------|
| A | 31 3/8" | 23 3/8" |
| B | 28 1/8" | 20 5/8" |
| C | 24 3/8" | 16 7/8" |
| D | 21 7/8" | 14 3/8" |
| WEIGHT | 200 lbs. | 165 lbs. |
- *OBSOLETE - DO NOT USE (FOR REFERENCE ONLY)

STANDARD DATE: 11/1992 TAIL REV: 2/21/2011	SEWER MANHOLE COVER	N.T.S.	el PASO WATER	DETAIL No. 378
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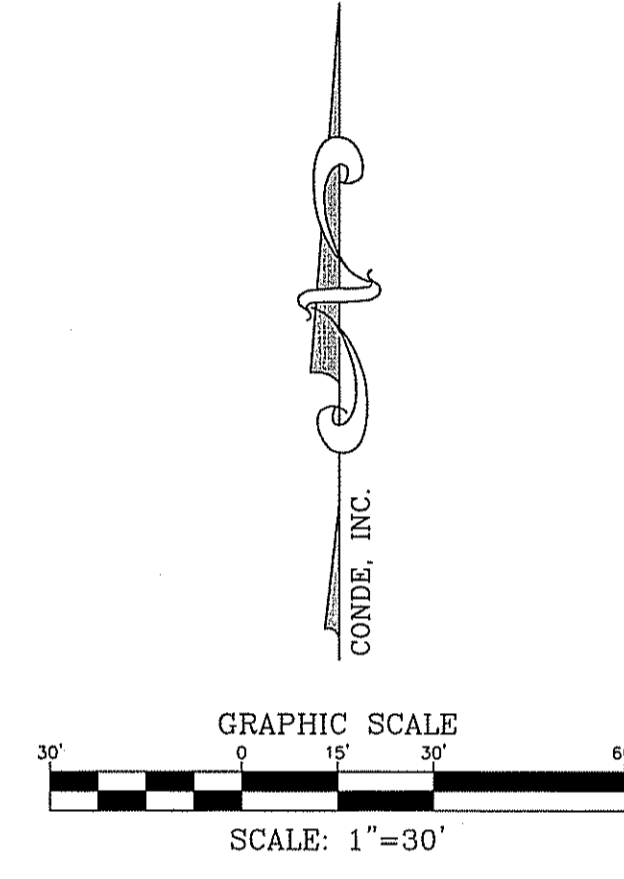
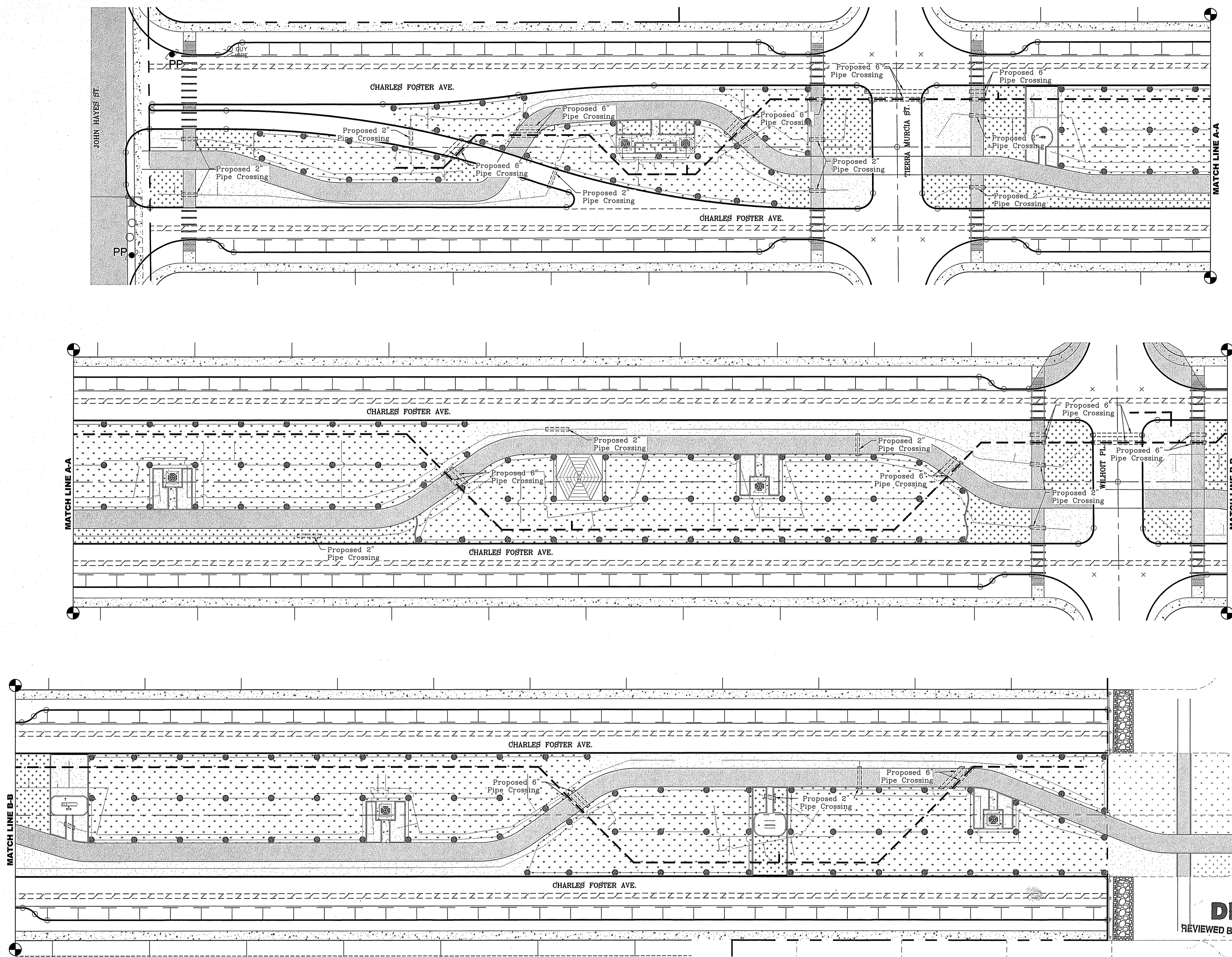


GUEVARA ENGINEERING
 P.O. BOX 961514
 EL PASO, TEXAS 79996
 (915) 203-5826
 STATE REGISTRATION NO. F-12421

TIERRA DEL ESTE UNIT 74
SUBDIVISION
 CITY OF EL PASO
 EL PASO COUNTY, TEXAS



FILE LOCATION S:\LANDSCAPE YDE 74\DWG YDE 74 L&I PIPE CROSSING PLOTTED ON Wednesday, September 27, 2017 5:06:21 PM BY ESTEBAN JUAREZ



PARKS DEPARTMENT
 REVIEWED BY *Anthony...* 02/01/2018

BENCHMARK	
DATE	BY

PROJECT NAME
FOSTERING FUN LINEAR PARK
14619 CHARLES FOSTER AVE.
 BEING ALL OF LOT 2, BLOCK 547, LOT 1, BLOCK 550,
 LOT 1, BLOCK 551 AND A PORTION OF LOT 1, BLOCK 552,
 DISTRICT 10, CITY OF EL PASO, TEXAS
 CONDE, INC. EL PASO, TEXAS
 CITY OF EL PASO, TEXAS
 CONTAINING: 3.59± ACRES

SCALE
 HORIZ: 1" = 30'
 VERT: ---
 DATE: OCT. 2016
 DESIGN BY: R.M.
 INITIATED BY: E.J.
 CHECKED BY: R.M.
 JOB NO.:

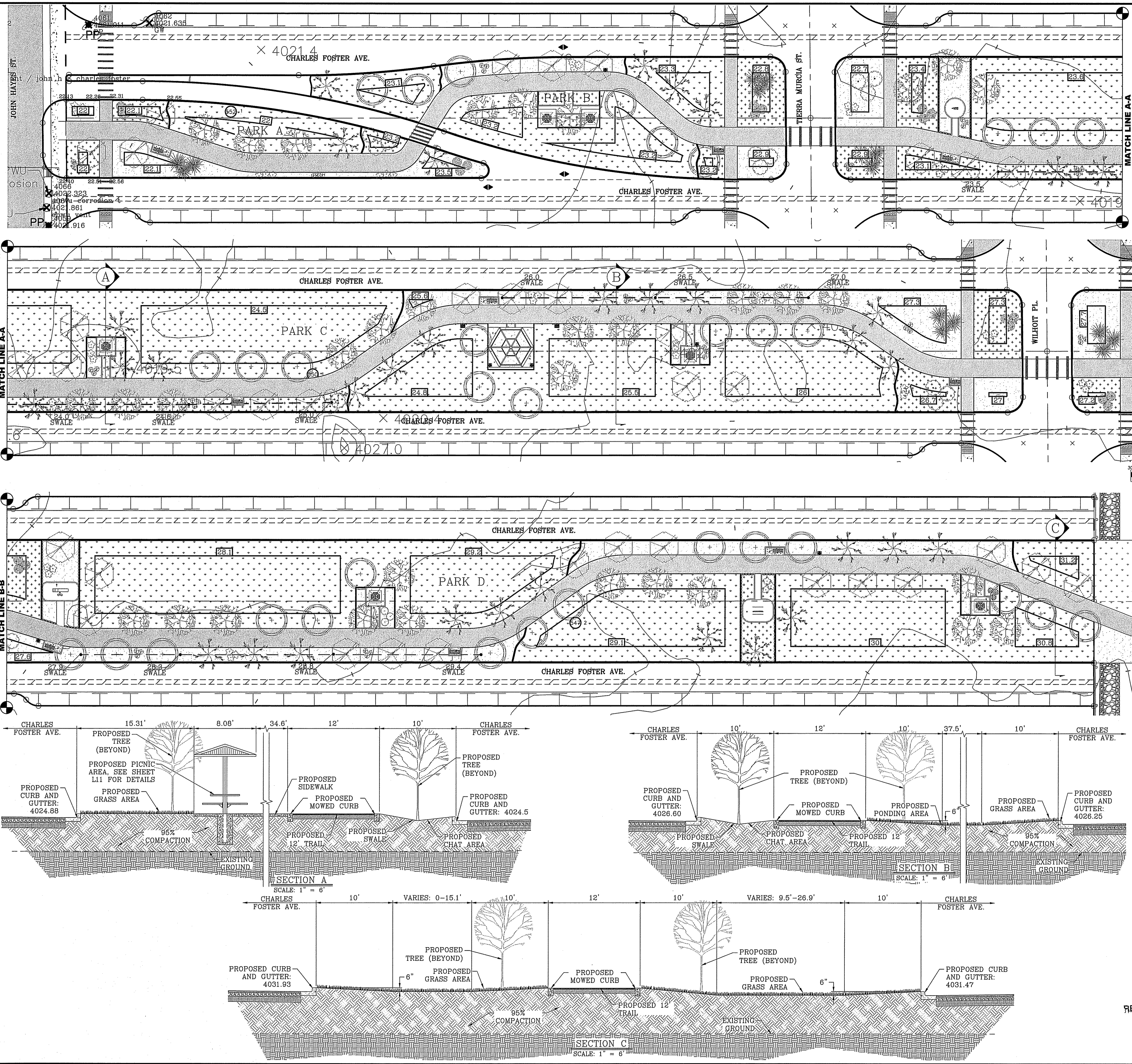
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

CONDE INC.
 REGISTRATION No. P-2321

SHEET TITLE
**FOSTERING FUN PIPE CROSSING
 DETAIL SHEET**

SHT **L1** OF **L12**

FILE LOCATION S:\LANDSCAPE\YDE 74\DWG\YDE 74 L&I GRADING PLOTTED ON Thursday, August 17, 2017 11:30:06 AM BY ESTEBAN JUAREZ



GENERAL NOTES:

1. IMPROVEMENT WITHIN CITY R.O.W. SHALL COMPLY WITH TITLE 19--SUBDIVISION ORDINANCE--"SUBDIVISION IMPROVEMENT DESIGN STANDARDS".
2. CONTRACTOR SHALL PROVIDE TEMPORARY MEASURES FOR THE MANAGEMENT OF STORM WATER RUNOFF ENTERING, EXITING AND ON SITE DURING THE COURSE OF THE CONSTRUCTION. TEMPORARY BERMS, DESILTING BASIN, CHECK DAMS, PIPING ETC. SHALL BE PROVIDED AS NECESSARY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND NOTIFICATION WITH ALL APPURTENANT UTILITY COMPANIES WHOSE LINES ARE WITHIN THE CONSTRUCTION CONTRACT AREA. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 48 HOURS PRIOR TO ANY CONSTRUCTION ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE PHYSICALLY AND FINANCIALLY FOR ANY DISRUPTION TO SERVICE EITHER ON SITE OR OFF SITE DUE TO BREAKAGE OF UTILITY LINES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DATA SHOWN ON THE PLANS. IF DISCREPANCIES ARE FOUND THE CONTRACTOR SHALL NOTIFY THE OWNER OR ENGINEER IMMEDIATELY SO THAT PROPER CORRECTIONS CAN BE MADE.
5. EQUIPMENT OF A CONDITION AND DESIGN SUFFICIENT TO ENSURE A THOROUGH AND WORKMANLIKE PROSECUTION OF THE PROJECT SHALL BE USED AT ALL TIMES.
6. ALL ELEVATIONS ARE TO CITY DATUM UNLESS OTHERWISE NOTED.
7. ALL WASTE MATERIALS INCLUDING EXCAVATION, CURBING, PAVEMENT, ETC. SHALL BE DISPOSED OF AS DESIGNATED BY THE OWNER OR HIS REPRESENTATIVE.
8. THE CONTRACTOR SHALL NOTIFY THE OWNER, OR HIS REPRESENTATIVE, IN SUFFICIENT TIME IN ADVANCE OF DELIVERY OF MATERIALS TO BE SUPPLIED BY HIM UNDER THIS PROJECT, IN ORDER THAT THE OWNER MAY ARRANGE, IF DESIRED, INSPECTION AND TESTING FOR SAME.
9. SAFE AND REASONABLE ACCESS FOR THIS SITE MUST BE MAINTAINED AT ALL TIMES DURING THE LIFE OF THE PROJECT.
10. ANY CAVITY REMAINING OPEN DURING NONWORKING HOURS MUST BE GUARDED BY FLASHER TYPE BARRICADES WITH STRINGERS PLACED BETWEEN THE TOPS OF THE BARRICADES.
11. DEVELOPER SHALL COMPLY WITH SECTION 13.08.170 "EXCESSIVE PAVING CUTS" AS PER EL PASO MUNICIPAL CODE.

GENERAL EARTHWORK NOTES:

1. ALL GRADING SHALL CONFORM TO THE CITY OF EL PASO GRADING ORDINANCE SECTION 18.44.
2. THE CONTRACTOR SHALL CARRY ON HIS WORK WITH SPECIAL CARE AT ALL TIMES TO MAINTAIN THE NATURAL SURROUNDINGS AND EXISTING STRUCTURES IN AN UNDAMAGED CONDITION.
3. NATURAL SUBGRADES TO SUPPORT STRUCTURAL FILL OR PAVEMENTS SHOULD BE STRIPPED OF ALL VEGETATION OR ORGANIC TOPSOIL. THE EXPOSED SUBGRADE SHOULD BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 6 INCHES AND RECOMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS PER ASTM D-1557. ALL BACKFILL MATERIAL TO BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED EIGHT (8") INCH LIFTS AND COMPACTED AS BEFORE.
4. TEMPORARY DUST AND EROSION CONTROL MEASURES SHALL BE PROVIDED FOR AT ALL TIMES.
5. ANY EROSION OF THE GRADED SITE DURING THE COURSE OF THE PROJECT SHALL BE CORRECTED PRIOR TO FINALIZATION OF THE PROJECT AT NO COST TO THE OWNER.
6. ALL SLOPES AND SWALES WITHIN LOTS SHALL BE MAINTAINED BY LOT OWNER.

CONSTRUCTION NOTES:

1. ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
2. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
3. 95% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
4. REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
5. RETAINING WALLS WILL BE REQUIRED WHERE THERE IS A GRADE DIFFERENCE OF 2 OR MORE FEET BETWEEN LOTS AND STREET. RETAINING WALL DESIGN AT TIME OF BUILDING PERMIT.

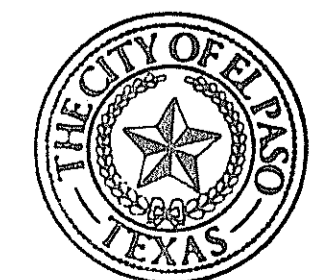
PARK SITE NOTES:

- A. ALL UTILITIES SHALL BE AT MINIMUM FIVE (5') FEET DEEP.
- B. WHERE POSSIBLE AND PREFERABLY, UTILITIES SHALL BE PLACED UNDERNEATH THE PROPOSED 7' WIDE SIDEWALK TO AVOID FUTURE CONFLICT WITH THE PROPOSED STREET TREES LINE OR DAMAGE TO THE UTILITIES.
- C. NO TRANSFORMERS, PEDESTAL OR JUNCTION BOXES SHALL BE INSTALLED WITHIN "PARK SITE" OR WITHIN NEW SIDEWALKS 1 HIKE & BIKE TRAIL.
- D. PROVIDE NOTE FOR CONTRACTOR TO BE REQUIRED TO APPLY FOR AND OBTAIN GRADING PERMIT FROM LAND DEVELOPMENT SERVICES.

ON SITE PARK PONDING CALCULATIONS

PARK POND AREA	LOT NO.	BLOCK NO.	PARK AREA (AC)	REQUIRED CAPACITY (AC. FT.)	AVAILABLE CAPACITY (AC. FT.)
A	1	552	0.26	0.03	0.03
B	1	551	0.43	0.06	0.08
C	1	550	1.54	0.21	0.32
		547	1.39	0.19	0.32

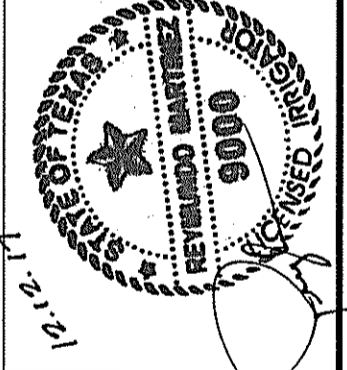
PARKS DEPARTMENT
 REVIEWED BY *[Signature]* 02/01/2018



DATE	REVISIONS	BY

FOSTERING FUN LINEAR PARK
14619 CHARLES FOSTER AVE.
 BEING ALL OF LOT 2, BLOCK 547, LOT 1, BLOCK 550, LOT 1, BLOCK 551 AND A PORTION OF LOT 1, BLOCK 552, BEING PART OF THE SURVEY OF THE CITY OF EL PASO, TEXAS, CITY OF EL PASO, EL PASO COUNTY, TEXAS, CONTAINING: 3.59± ACRES

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

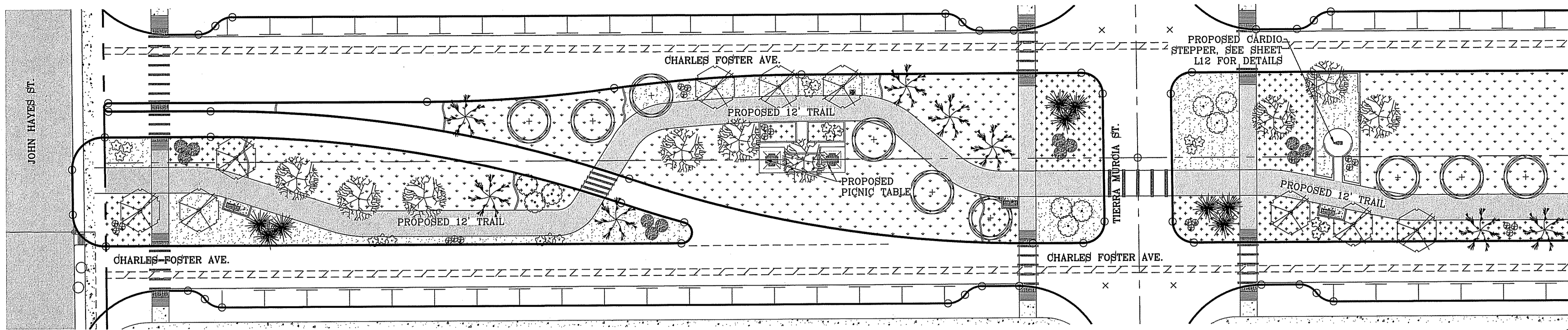


ON SITE PARK PONDING CALCULATIONS

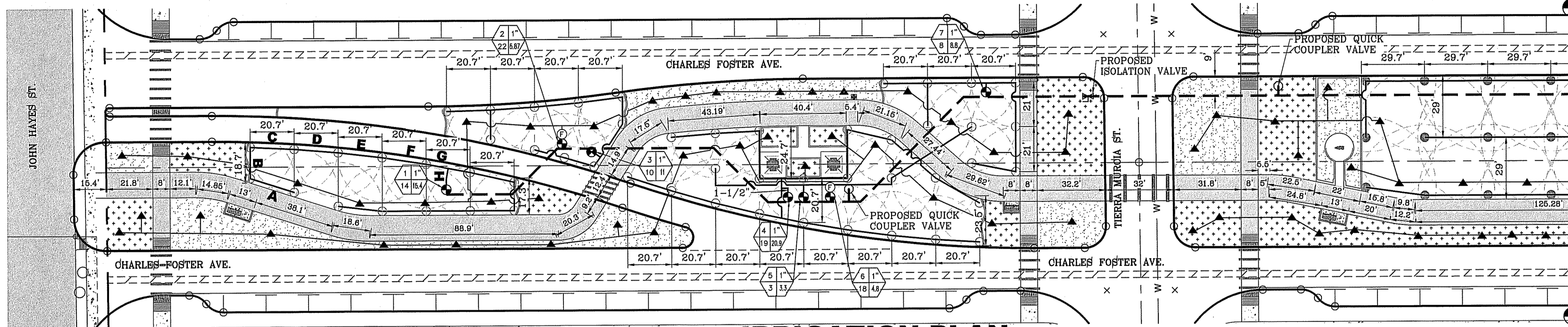
CONDE INC.
 REGISTRATION No. P-3221

PROPOSED GRADING & DRAIN PLAN - FOSTERING FUN

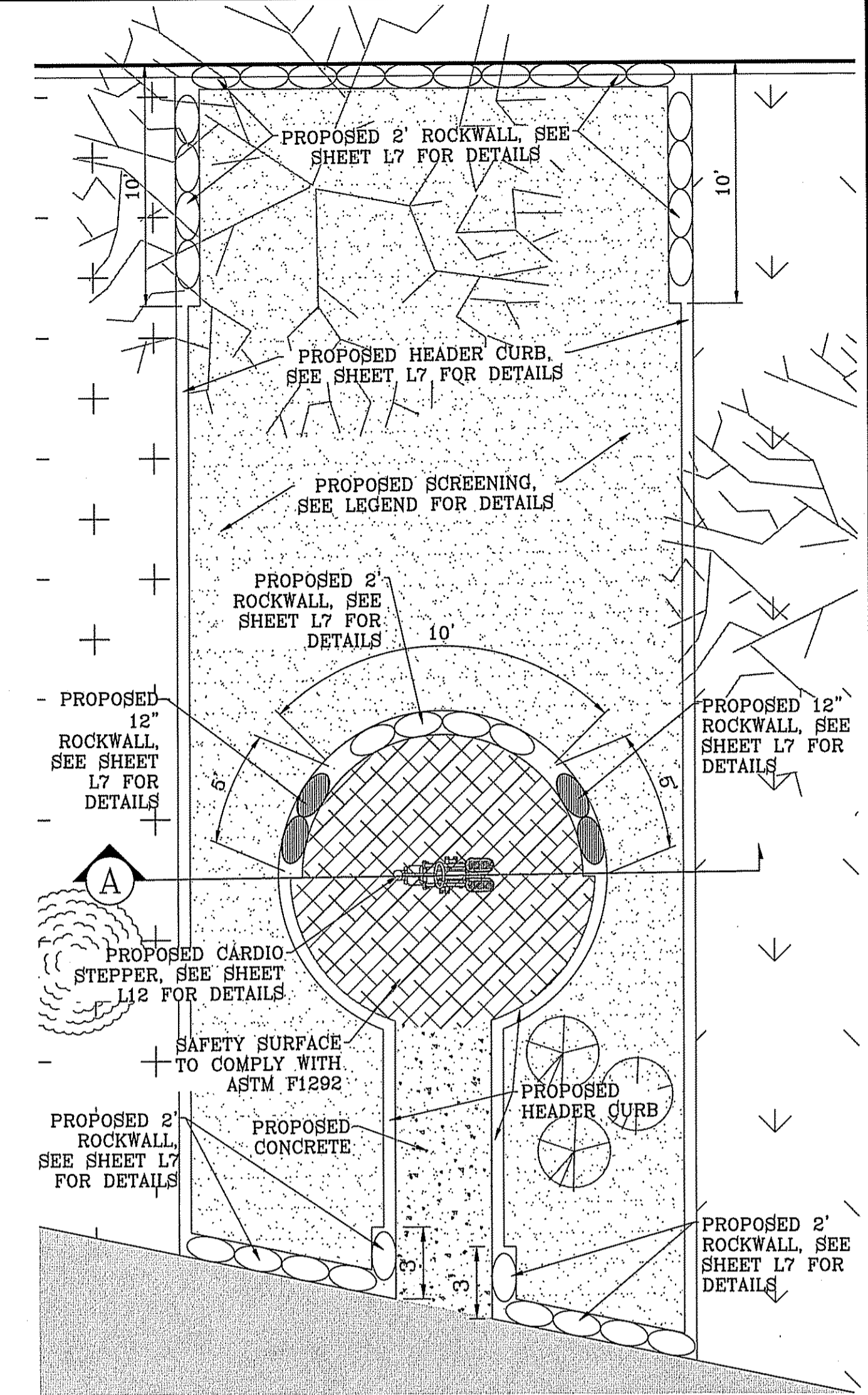
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LANDSCAPE PLAN



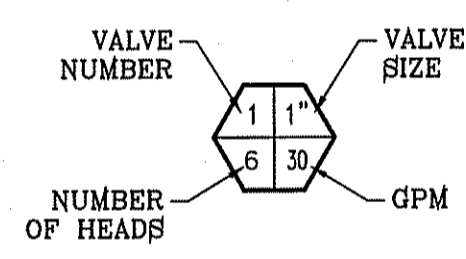
IRRIGATION PLAN



PLYO STATION BLOWUP DETAIL (TYPICAL)
SCALE: 1"=5'

LEGEND

COMMON NAME	BOTANICAL NAME / SIZE / HEIGHT	QUANTITY (THIS SHEET)	QUANTITY (TOTAL)
CHINESE PISTACHE	PISTACIA CHINENSIS / 2" CAL. / 10' (DECIDUOUS)	9	33
PALO VERDE	PARKINSONIA X CERCIUM / 2" CAL. / 10' (DECIDUOUS)	9	36
LACEBARK ELM	ULMUS PARVIFOLIA / 2" CAL. / 10' (DECIDUOUS)	9	33
CIMARRON ASH	FRAXINUS PENNSYLVANICA / 2" CAL. / 10' (DECIDUOUS)	8	33
LILY OF THE NILE	AGAPANTHUS AFRICANUS / 1 GAL. (DECIDUOUS)	21	51
PURPLE SAGE	LEUCOPHYLLUM FRUTESCENS / 5 GAL. (EVERGREEN)	12	30
HAMELS FOUNDATION GRASS	HESPERALOE PARVIFLORA / 5 GAL. (EVERGREEN)	21	57
RED BIRD OF PARADISE	CAESALPINIA PULCHERRIMA / 5 GAL. (DECIDUOUS)	9	15
AUTUMN SAGE SELECTIONS	SALVIA GREGGII / 5 GAL.	9	21
HYBRID BERMUDA "SANTA ANA" SOD		0.418 AC	1.939 AC
3/4" PADRE CANYON ROCK, 3" DEPTH 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		0.169 AC	0.484 AC
FRANKLIN RED CHAT, 3" THICK W/ NON-WOVEN POLYPROPYLENE WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS		0.160 AC	0.343 AC
6" x 12" CONCRETE MOWSTRIP/HDR CURB (SEE SHEET L7 FOR DETAIL)			
SHADED PICNIC UNITS ON 12' x 12' CONCRETE PAD (SEE SHEET L11 FOR DETAIL)		1	
PARK BENCH - 5'x7' NON-ADA COMPLIANT 5'x12' ADA COMPLIANT (SEE SHEET L11 FOR DETAIL)		2	4
TRASH RECEPTACLE (SEE SHEET L9 FOR DETAIL)		1	6



NOTES:
1. PVC SLEEVES TO BE WRAPPED WITH MINIMUM 4 MIL PLASTIC AND TAPED WITH 3M BRAND HD PLASTIC TAPE
2. QUICK COUPLER VALVES AND ISOLATION VALVES BOX ARE TO BE INSTALLED WITH TAG THAT READS, "NON POTABLE WATER NOT SAFE FOR DRINKING"

IRRIGATION DRIP EMITTER NOTES:
1. ALL PVC PIPE PERTAINING TO DRIP EMITTERS TO BE CLASS 200 SIZE 1" UNLESS OTHERWISE NOTED

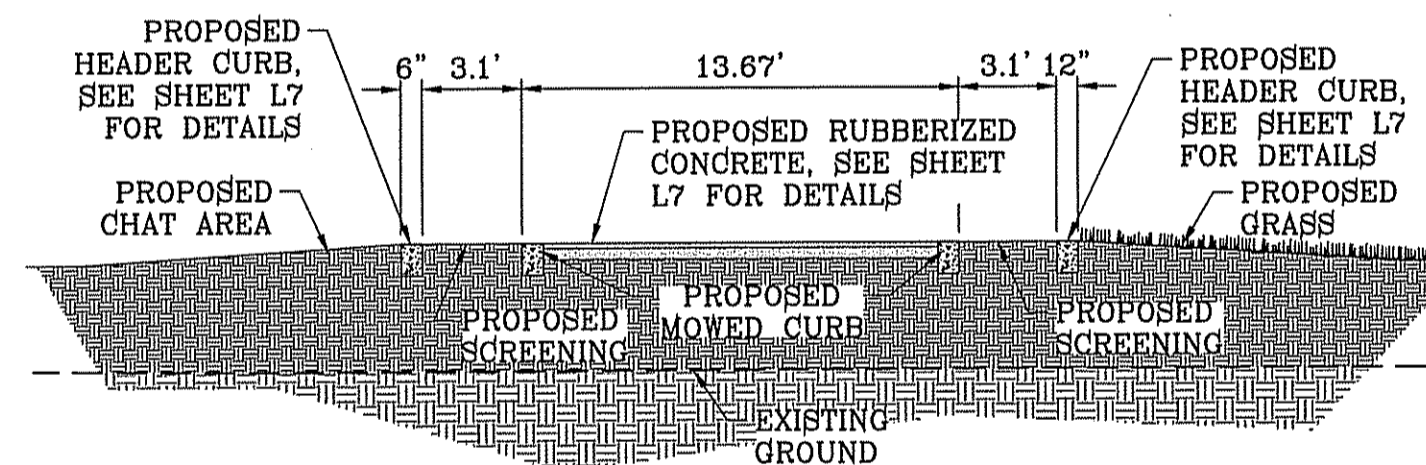
IRRIGATION PVC LATERAL NOTES:
1. ALL PVC PIPE PERTAINING TO LATERALS TO BE CLASS 200 SIZE 1" UNLESS OTHERWISE NOTED

REGISTRATION NUMBER (PLD#):
EABPRJ8802036

THIS DESIGN COMPLIES WITH THE CITY OF EL PASO APPROVED PARK DESIGN STANDARDS ADOPTED JANUARY 8, 2013

NOTE:
IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (T.C.E.Q.) (MC-178), P.O. BOX 13087, AUSTIN TEXAS. 78711-3037. TCEQ'S WEB SITE IS: WWW.TCEQ.STATE.TX.US

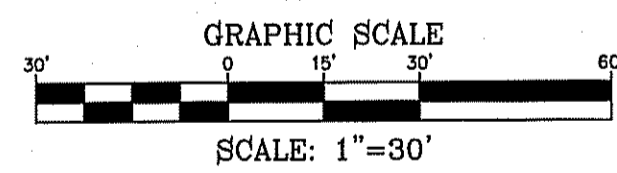
NOTE:
ANY UNSUITABLE SOIL CONDITIONS TO BE REMEDIATED TO BE REMEDIATED TO ELIMINATE HARD SOILS, STONY SOILS, HIGH CALICHE SOILS, CLAY SOILS, COARSE SANDS AND CONTAMINATED SOILS TO A MINIMUM DEPTH OF 12 INCHES AS REQUIRED FOR PROPER PLANTING AS REQUIRED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR PARK FACILITIES APPROVED BY THE MAYOR AND COUNCIL.



PARKS DEPARTMENT

HYDRAULIC CALCULATION TABLE - FOSTERING FUN LINEAR PARK

ZONE #27		STATIC PRESSURE AS PER PSB: 55		SECTION GPM 108.80	
LATERAL PIPE SECTION	PIPE LENGTH (FEET)	FLOW (GPM)	SIZE (IN)	PRESSURE LOSS PER 100 FEET	ACCUMULATED PRESSURE LOSS
A-PVC CLASS 200	25.0	1.7	1	0.056	0.014
B-PVC CLASS 200	25.0	3.4	1	0.195	0.063
C-PVC CLASS 200	34.8	5.1	1	0.407	0.205
D-PVC CLASS 200	13.4	6.8	1	0.693	0.297
E-PVC CLASS 200	2.0	8.5	1	1.047	0.318
TOTAL LATERAL PIPING PRESSURE LOSS IN PSI					0.318
TOTAL PRESSURE LOSS WITH 4 ADDITIONAL VALVES RUNNING AT THE SAME TIME (0.318 OR COPY OF HIGHEST PRESSURE LOSS)					1.59
IRRIGATION ITEM					
ZONE VALVE	10.20	1"		1.53	3.122
MAIN LINE-PVC SCHED 40	779	108.80	3"	1.116	11.819
BACKFLOW		108.80	2-1/2"	12.00	23.819
TYPE K COPPER LINE (THROUGH PUMP AND BACKFLOW)	36	108.80	2-1/2"	3.921	25.231
WATER METER		108.80	2"	9.208	34.439
ELEVATION LOSS		# OF FT.	3.5	x 0.433	1.516
TOTAL PRESSURE LOSS					35.955
MINIMUM HEAD PRESSURE (1-20 ADJ #1.5 BLACK @ 30 PSI-23" RADIUS 1.1 GPM)					30.0
PRESSURE AT CRITICAL HEAD (STATIC 55 - LOSSES 35.955 = 19.045) ACTUAL					19.045
PRESSURE SHORTAGE					
DESIGN PRESSURE (REQ'D PRESSURE @ CRITICAL HEAD PLUS LOSSES) 30.0 + 35.955 = 65.955					65.955
PUMP REQUIREMENTS (PRESSURE SHORTAGE CONVERTED TO (FT. HEAD) X 2.31) X 10% = FT HD @ 108.8 GPM					27.835
PUMP REQUIREMENTS (PRESSURE SHORTAGE CONVERTED TO (FT. HEAD) X 2.31) X 10% = FT HD @ 108.8 GPM					30 - 19.045 = 10.955 x 2.31 x 10% = 27.835



IRRIGATION LEGEND

- LATERAL LINE - C 160 200 PSI PR SDR PVC PIPE (SIZE AS NOTED)
- TYPE K 2-1/2" COPPER WATER TUBE (MAX FLOW 130.6 GPM)
- MAIN LINE - C160 SCHEDULE 40 PVC PIPE (3" UNLESS OTHERWISE NOTED)
- PVC SLEEVE (TWICE THE SIZE OF PIPE)
- 1" WEATHERMATIC BRONZE BULLET 8200CR-10D RED BRASS VALVE
- HUNTER I-20-06-SS ADJUSTABLE ARC NOZZLE #2.5 BLUE STANDARD PRESSURE 25 PSI RADIUS: 33' FLOW: 1.7 GPM
- HUNTER I-20-06-SS ADJUSTABLE ARC NOZZLE #1.5 BLACK SHORT RADIUS PRESSURE 30 PSI RADIUS: 23' FLOW: 1.1 GPM
- XERI-BIRD 8 MULTI-OUTLET EMISSION DEVICE XBD-80, SEE SHEET L8 FOR DETAILS
- STUB OUT WITH FOR FUTURE DRIP (IF APPLICABLE)
- ISOLATION BRASS BALL VALVE
- XCZ-100 PRB COM. 1" COMMERCIAL, SEE SHEET L8 FOR DETAILS
- BUCKNER DOUBLE LUG 1" QUICK COUPLER W/ BRASS STABILIZER IN VALVE BOX, SEE SHEET L8 FOR DETAIL

PROJECT NAME: FOSTERING FUN LINEAR PARK
14619 CHARLES FOSTER AVE.
BEING ALL OF LOT 2, BLOCK 647, LOT 1, BLOCK 550, LOT 1, BLOCK 551 AND A PORTION OF LOT 1, BLOCK 552, TIERRA DEL ESTE UNIT SEVENTY FOUR, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 3.59± ACRES

DATE: OCT. 2016
DESIGN BY: R.M.
INITIATED BY: E.J.
CHECKED BY: R.M.
JOB NO.:

SCALE: 1" = 30'
HORIZ. 1" = 30'
VERT. 1" = 5'

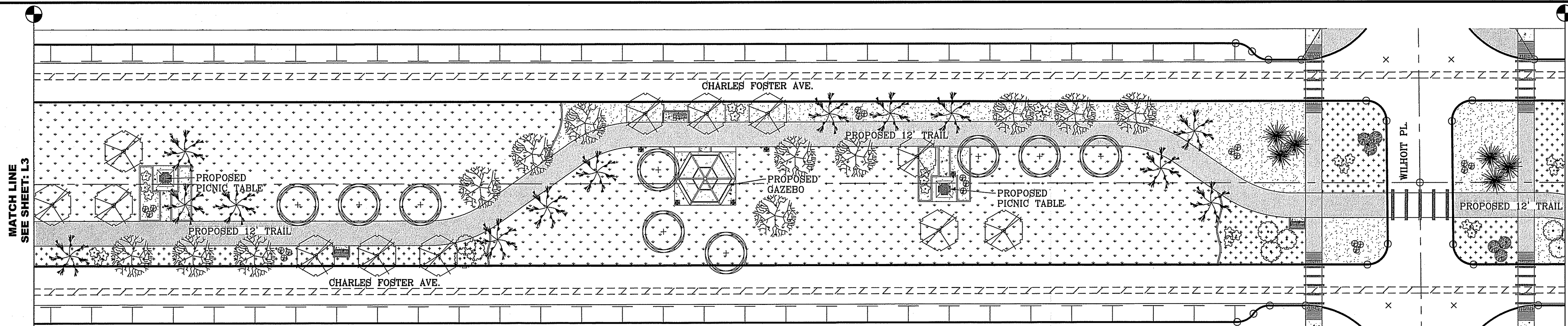
IRREGATOR'S SEAL: 12.12.17

CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURETY DR. SITE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0263 FAX: (915) 592-0266

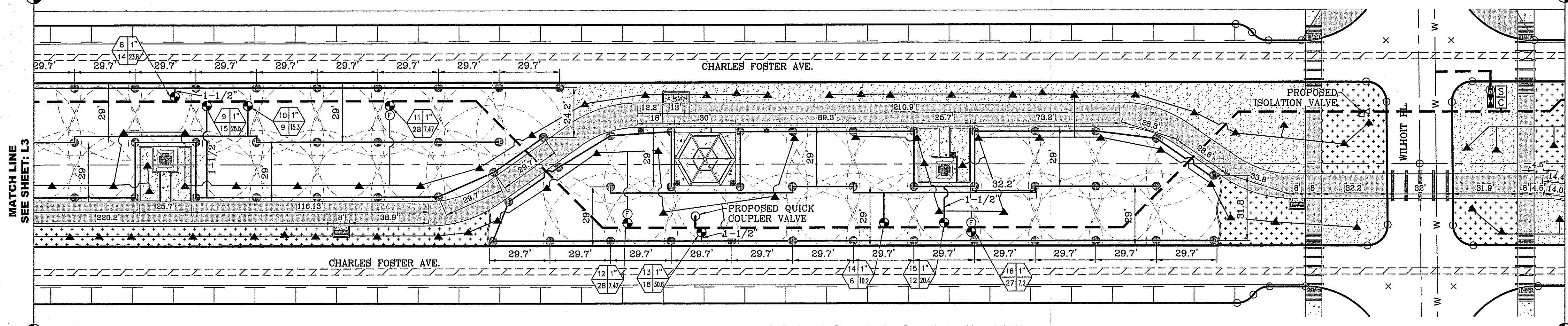
SHEET TITLE: FOSTERING FUN LINEAR PARK LANDSCAPE AND IRRIGATION

SHT L3 OF L12

FILE LOCATION S:\LANDSCAPE\TDE 74\DWG\TDE 74 L&I PLOTTED ON Friday, December 8, 2017 9:23:42 AM BY ESTEBAN JUAREZ



LANDSCAPE PLAN

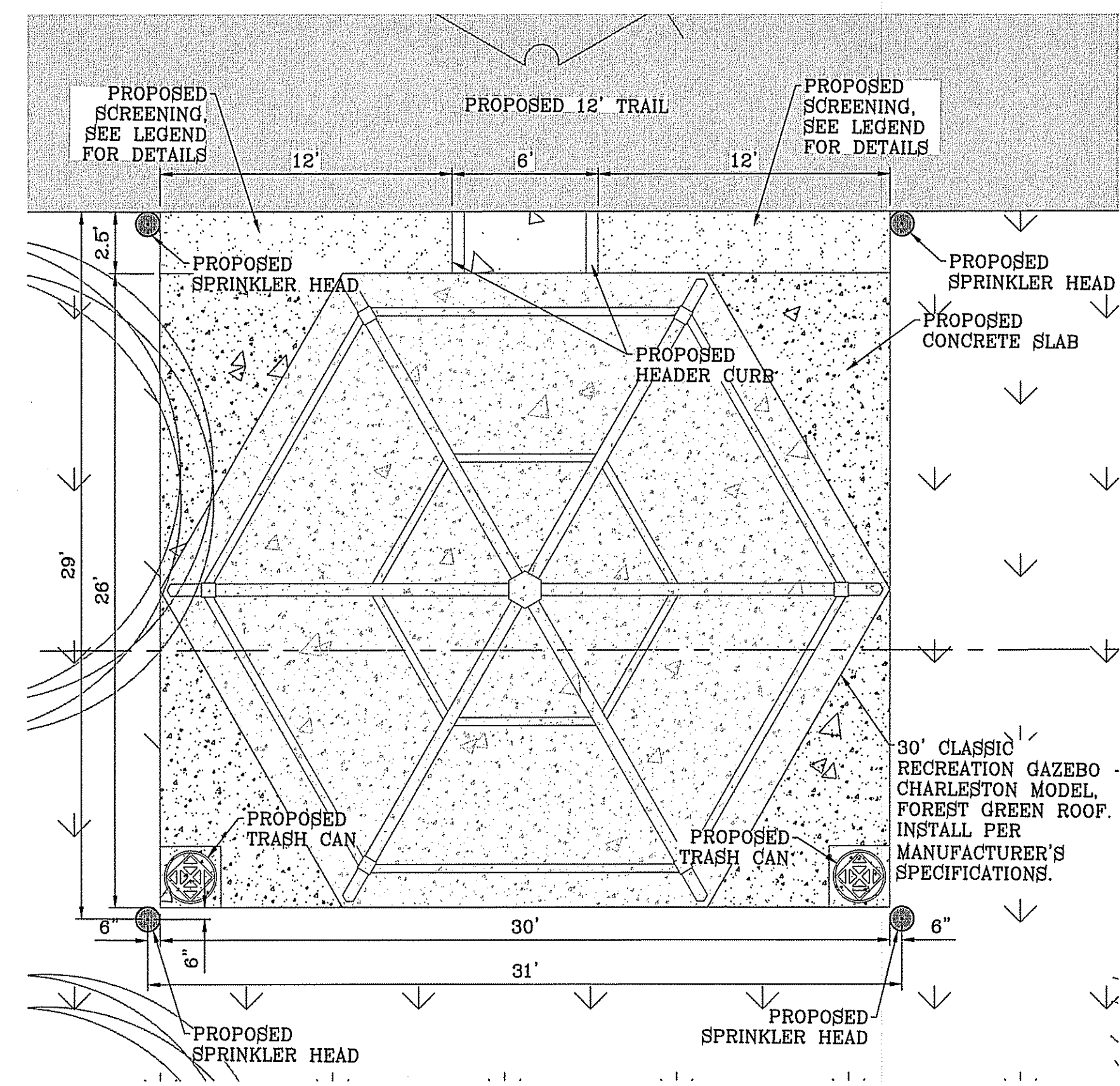


**IRRIGATION PLAN
PARKS
DEPARTMENT**

REVIEWED BY *[Signature]* 02/01/2018

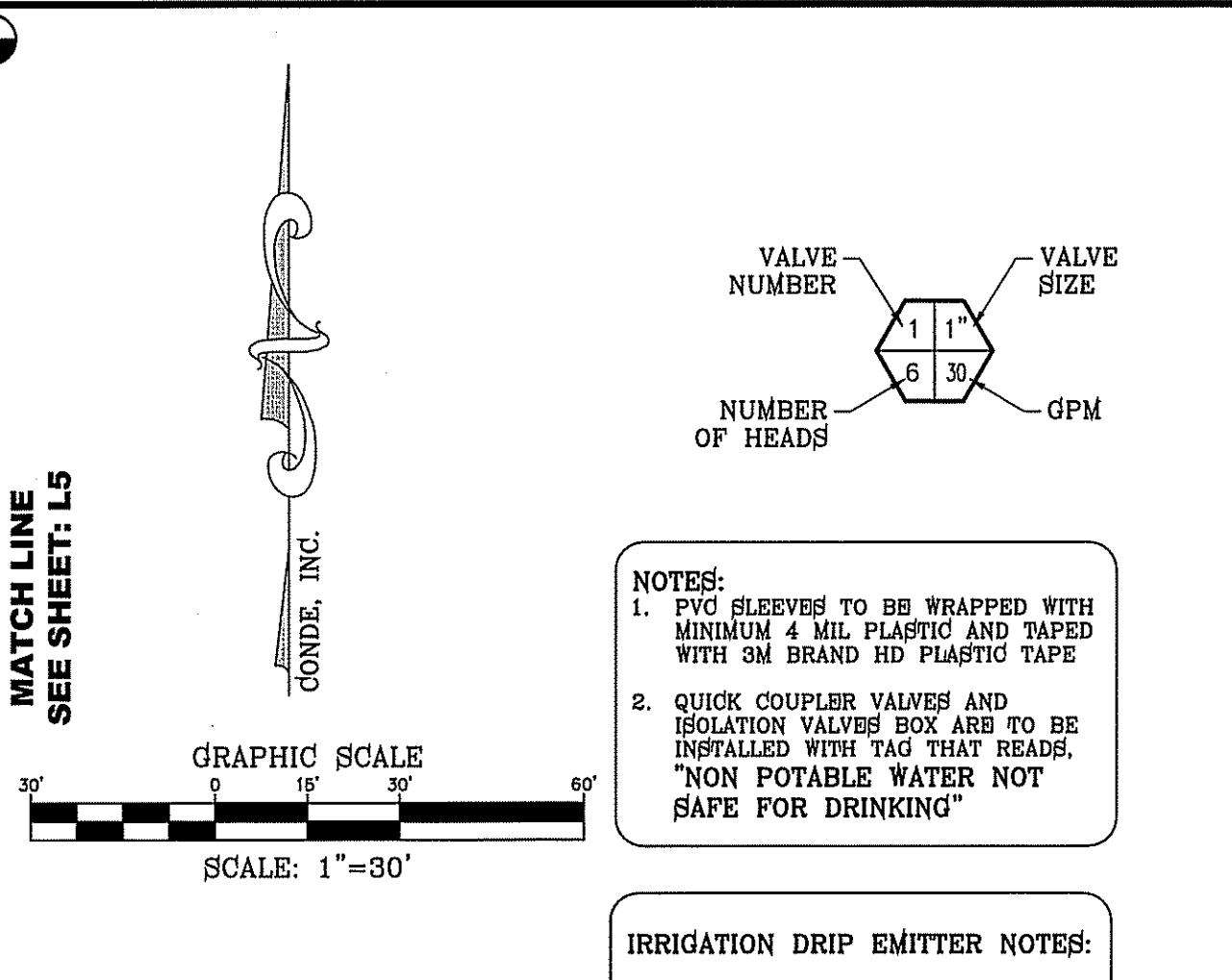
IRRIGATION LEGEND

- LATERAL LINE - C 150 200 PSI PR SDR PVC PIPE (SIZE AS NOTED)
- - - TYPE K 2-1/2" COPPER WATER TUBE (MAX FLOW 130.6 GPM)
- - - MAIN LINE - C150 SCHEDULE 40 PVC PIPE (3" UNLESS OTHERWISE NOTED)
- PVC SLEEVE (TWICE THE SIZE OF PIPE)
- ⊕ 2" WATER METER BY DEVELOPER - MAX FLOW 120 GPM
- ⊕ FEBCO 2" MASTER SERIES LF825Y REDUCED PRESSURE ZONE BACK FLOW PREVENTION ASSEMBLY. SEE SHEET L8 FOR DETAIL
- ⊕ RAINBIRD RS-BEX, SEE SHEET L9 FOR DETAIL
- ⊕ RAINBIRD ESP-LXME CONTROLLER, SEE SHEET L9 FOR DETAIL
- ⊕ 1" WEATHERMATIC BRONZE BULLET 8200CR-10D RED BRASS VALVE
- ⊕ HUNTER I-20-06-SS ADJUSTABLE ARC NOZZLE #2.5 BLUE STANDARD PRESSURE 25 PSI RADIUS: 33' FLOW: 1.7 GPM
- ⊕ XERI-BIRD 8 MULTI-OUTLET EMISSION DEVICE XBD-80, SEE SHEET L8 FOR DETAILS
- ⊕ STUB OUT WITH FOR FUTURE DRIP (IF APPLICABLE)
- ⊕ ISOLATION BRASS BALL VALVE
- ⊕ XCZ-100 PRB COM. 1" COMMERCIAL, SEE SHEET L8 FOR DETAILS
- ⊕ BUCKNER DOUBLE LUG 1" QUICK COUPLER W/ BRASS STABILIZER IN VALVE BOX, SEE SHEET L8 FOR DETAIL



LEGEND

COMMON NAME	BOTANICAL NAME / SIZE / HEIGHT	QUANTITY (THIS SHEET)	QUANTITY (TOTAL)
CHINESE PISTACHE	PISTACIA CHINENSIS / 2" CAL. / 10' (DECIDUOUS)	9	33
PALO VERDE	PARKINSONIA X CERCIIDIUM / 2" CAL. / 10' (DECIDUOUS)	12	36
LACEBARK ELM	ULMUS PARVIFOLIA / 2" CAL. / 10' (DECIDUOUS)	12	33
CIMARRON ASH	FRAXINUS PENNSYLVANICA / 2" CAL. / 10' (DECIDUOUS)	13	33
LILY OF THE NILE	AGAPANTHUS AFRICANUS / 1 GAL. (DECIDUOUS)	24	51
PURPLE SAGE	LEUCOPHYLLUM FRUTESCENS / 5 GAL. (EVERGREEN)	9	30
HAMELS FOUNDATION GRASS	HESPERALOE PARVIFLORA / 5 GAL. (EVERGREEN)	27	57
RED BIRD OF PARADISE	CAESALPINIA PULCHERRIMA / 5 GAL. (DECIDUOUS)	6	15
AUTUMN SAGE SELECTIONS	SALVIA GREGGII / 5 GAL.	8	21
HYBRID BERMUDA "SANTA ANA" SOD		0.702 AC	1.939 AC
3/4" PADRE CANYON ROCK, 3" DEPTH 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		0.177 AC	0.484 AC
FRANKLIN RED CHAT, 3" THICK W/ NON-WOVEN POLYPROPYLENE WEED BARRIER FABRIC TO BE PINNED DOWN AT 3' ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS		0.198 AC	0.528 AC
6" x 12" CONCRETE MOWSTRIP/HDR CURB (SEE SHEET L7 FOR DETAIL)			
SHADED PICNIC UNITS ON 12' x 12' CONCRETE PAD (SEE SHEET L11 FOR DETAIL)		2	
PARK BENCH - 5'x7' NON-ADA COMPLIANT		2	4
5'x12' ADA COMPLIANT (SEE SHEET L11 FOR DETAIL)		1	5
TRASH RECEPTACLE (SEE SHEET L9 FOR DETAIL)		3	6



NOTE:
ANY UNSUITABLE SOIL CONDITIONS TO BE REMEDIATED TO ELIMINATE HARD SOILS, STONY SOILS, HIGH CALICHE SOILS, CLAY SOILS, COARSE SANDS AND CONTAMINATED SOILS TO A MINIMUM DEPTH OF 12 INCHES AS REQUIRED FOR PROPER PLANTING AS REQUIRED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR PARK FACILITIES APPROVED BY THE MAYOR AND COUNCIL.

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

FOSTERING FUN LINEAR PARK LANDSCAPE AND IRRIGATION

SHT L4 OF L12

FOSTERING FUN LINEAR PARK
14619 CHARLES FOSTER AVE.
BEING ALL OF LOT 2, BLOCK 547, LOT 1, BLOCK 550, LOT 1, BLOCK 551 AND PORTION OF LOT 1, BLOCK 552, THESE BEING PART OF SEVENY FOUR PARK, BLOCK 552, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 3.69± ACRES

IRREGATOR'S SEAL: 12/12/17

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

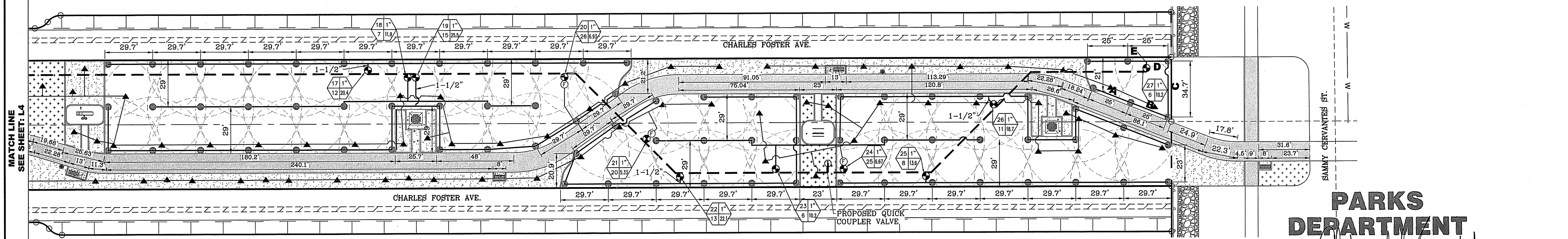
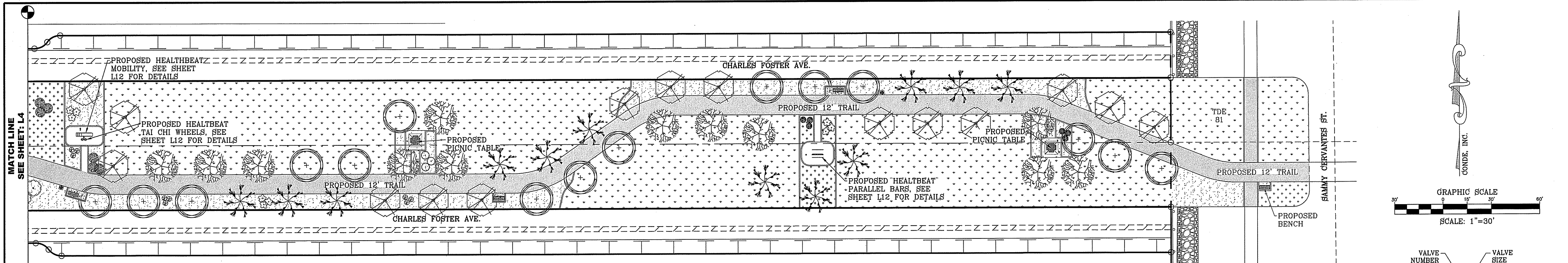
DATE: OCT. 2016
DESIGNED BY: R.M.
INITIATED BY: E.J.
CHECKED BY: R.M.
JOB NO.:

BENCHMARK:

REVISIONS:

BY:

FILE LOCATION S:\LANDSCAPE\74\DWG\74 L&I PLOTTED ON Friday, December 8, 2017 9:24:21 AM BY ESTEBAN JUAREZ



PARKS DEPARTMENT
REVIEWED BY: [Signature] 02/01/2018

IRRIGATION LEGEND

	LATERAL LINE - C 150 200 PSI PR SDR PVC PIPE (SIZE AS NOTED)
	TYPE K 2-1/2" COPPER WATER TUBE (MAX FLOW 130.6 GPM)
	MAIN LINE - C150 SCHEDULE 40 PVC PIPE (3" UNLESS OTHERWISE NOTED)
	PVC SLEEVE (TWICE THE SIZE OF PIPE)
	1" WEATHERMATIC BRONZE BULLET 8200CR-10D RED BRASS VALVE
	HUNTER 1-20-06-SS ADJUSTABLE ARC NOZZLE #2.5 BLUE STANDARD PRESSURE 25 PSI RADIUS: 33' FLOW: 1.7 GPM
	XERI-BIRD 8 MULTI-OUTLET EMISSION DEVICE XBD-80, SEE SHEET L8 FOR DETAILS
	STUB OUT WITH FOR FUTURE DRIP (IF APPLICABLE)
	ISOLATION BRASS BALL VALVE
	XCZ-100 PRB COM. 1" COMMERCIAL, SEE SHEET L8 FOR DETAILS
	BUCKNER DOUBLE LUG 1" QUICK COUPLER W/ BRASS STABILIZER IN VALVE BOX, SEE SHEET L8 FOR DETAIL

NOTES:

- PVC SLEEVES TO BE WRAPPED WITH MINIMUM 4 MIL PLASTIC AND TAPED WITH 3M BRAND HD PLASTIC TAPE
- QUICK COUPLER VALVES AND ISOLATION VALVES BOX ARE TO BE INSTALLED WITH TAG THAT READS: "NON POTABLE WATER NOT SAFE FOR DRINKING"

IRRIGATION DRIP EMITTER NOTES:

- ALL PVC PIPE PERTAINING TO DRIP EMITTERS TO BE CLASS 200 SIZE 1" UNLESS OTHERWISE NOTED

IRRIGATION PVC LATERAL NOTES:

- ALL PVC PIPE PERTAINING TO LATERALS TO BE CLASS 200 SIZE 1" UNLESS OTHERWISE NOTED

THIS DESIGN COMPLIES WITH THE CITY OF EL PASO APPROVED PARK DESIGN STANDARDS ADOPTED JANUARY 8, 2013

NOTE:
IRRIGATION IS REGULATED BY THE TEXAS COMMISSION IN ENVIRONMENTAL QUALITY (T.C.E.Q.) (MC-178), P.O. BOX 13087, AUSTIN TEXAS. 78711-3037, TCEQ'S WEB SITE IS: WWW.TCEQ.STATE.TX.US

NOTE:
ANY UNSUITABLE SOIL CONDITIONS TO BE REMEDIATED TO ELIMINATE HARD SOILS, STONY SOILS, HIGH CALICHE SOILS, CLAY SOILS, COARSE SANDS AND CONTAMINATED SOILS TO A MINIMUM DEPTH OF 12 INCHES AS REQUIRED FOR PROPER PLANTING AS REQUIRED PER THIS DESIGN AND CONSTRUCTION STANDARDS FOR PARK FACILITIES APPROVED BY THE MAYOR AND COUNCIL.

LEGEND

COMMON NAME	BOTANICAL NAME / SIZE / HEIGHT	QUANTITY (THIS SHEET)	QUANTITY (TOTAL)
	CHINESE PISTACHE PISTACIA CHINENSIS / 2" CAL. / 10' (DECIDUOUS)	15	33
	PALO VERDE PARKINSONIA X CERCIIDIUM / 2" CAL. / 10' (DECIDUOUS)	15	36
	LACEBARK ELM ULMUS PARVIFOLIA / 2" CAL. / 10' (DECIDUOUS)	12	33
	CIMARRON ASH FRAXINUS PENNSYLVANICA / 2" CAL. / 10' (DECIDUOUS)	12	33
	LILY OF THE NILE AGAPANTHUS AFRICANUS / 1 GAL. (DECIDUOUS)	6	51
	PURPLE SAGE LEUCOPHYLLUM FRUTESCENS / 5 GAL. (EVERGREEN)	9	30
	HAMELS FOUNDATION GRASS HESPERALOE PARVIFLORA / 5 GAL. (EVERGREEN)	9	57
	RED BIRD OF PARADISE CAESALPINIA PULCHERRIMA / 5 GAL. (DECIDUOUS)	-	15
	AUTUMN SAGE SELECTIONS SALVIA GREGGII / 5 GAL.	4	21
	HYBRID BERMUDA "SANTA ANA" SOD	0.819 AC	1.939 AC
	3/4" PADRE CANYON ROCK, 3" DEPTH 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	0.148 AC	0.484 AC
	FRANKLIN RED CHAT, 3" THICK W/ NON-WOVEN POLYPROPYLENE WEED BARRIER FABRIC TO BE PINNED DOWN AT 3" ON CENTER EACH WAY & AT 12" ON CENTER ALONG PERIMETER, OVERLAP MIN. 12" AT SEAMS	0.046 AC	0.343 AC
	6" x 12" CONCRETE MOWSTRIP/HDR CURB (SEE SHEET L7 FOR DETAIL)	-	-
	SHADED PICNIC UNITS ON 12' x 12' CONCRETE PAD (SEE SHEET L11 FOR DETAIL)	2	-
	PARK BENCH - 5'x7' NON-ADA COMPLIANT 5'x12' ADA COMPLIANT (SEE SHEET L11 FOR DETAIL)	1 2	4 5
	TRASH RECEPTACLE (SEE SHEET L9 FOR DETAIL)	2	6

PROJECT NAME: **FOSTERING FUN LINEAR PARK**
14619 CHARLES FOSTER AVE.
BEING ALL OF LOT 2, BLOCK 547, LOT 1, BLOCK 550, LOT 1, BLOCK 551 AND A PORTION OF LOT 1, BLOCK 552, TERRA DEL ESTE UNIT SEVENTY FOUR PARK, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 3.59± ACRES

DATE: OCT. 2016
DESIGN BY: R.M.
INITIATED BY: E.J.
CHECKED BY: R.M.

IRRIGATOR'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

FOSTERING FUN LINEAR PARK LANDSCAPE AND IRRIGATION

SHT L5 OF L12

DETAILS FOR SPRINKLER HEAD:

HUNTER 1-20-06-SS ADJUSTABLE ARC
 NOZZLE #1.5 BLACK SHORT RADIUS
 PRESSURE 30 PSI
 RADIUS: 23' FLOW: 1.1 GPM
 HEAD SPACING: 17.9'
 ROW SPACING: 19'
 RADIUS OF NOZZLE = 23'
 .45 x 46 = 20.7

HEAD SPACING = ROW SPACING = 20.7'

PRECIPITATION RATE

FULL SPRAY

$$PR = \frac{\text{FULL HEAD GPM} \times 96.25}{\text{HEAD SPACING} \times \text{ROW SPACING}}$$

$$PR = \frac{1.1 \times 96.25}{20.7' \times 20.7'} = \frac{105.875}{428.49} = 0.25 \text{ IN./HR.}$$

HALF SPRAY

$$PR = \frac{\text{HALF HEAD GPM} \times 96.25}{\text{HEAD SPACING}^2 \times 0.433}$$

$$PR = \frac{1.1 \times 96.25}{20.7' \times 0.433} = \frac{105.875}{185.538} = 0.57 \text{ IN./HR.}$$

DETAILS FOR SPRINKLER HEAD:

HUNTER 1-20-06-SS ADJUSTABLE ARC
 NOZZLE #2.5 BLUE
 PRESSURE 25 PSI
 RADIUS: 33' FLOW: 1.7 GPM
 HEAD SPACING: 29.7'
 ROW SPACING: 26'
 RADIUS OF NOZZLE = 33'
 .45 x 66 = 29.7

PRECIPITATION RATE

FULL SPRAY

$$PR = \frac{\text{FULL HEAD GPM} \times 96.25}{\text{HEAD SPACING} \times \text{ROW SPACING}}$$

$$PR = \frac{1.7 \times 96.25}{29.7' \times 29'} = \frac{163.625}{861.3} = 0.19 \text{ IN./HR.}$$

HALF SPRAY

$$PR = \frac{\text{HALF HEAD GPM} \times 96.25}{\text{HEAD SPACING}^2 \times 0.433}$$

$$PR = \frac{1.7 \times 96.25}{29.7' \times 0.433} = \frac{163.625}{381.945} = 0.43 \text{ IN./HR.}$$

RUNTIME FORMULA

$$RT = \frac{R}{PR} \times 60$$

WHERE RT = RUNTIME
 R = PLANT REQUIREMENT OF WATER
 PR = PRECIPITATION RATE IN INCHES PER HOUR
 60 = 60 MINUTES PER HOUR IS THE CONSTANT CONVERSION

VALVE AND PRECIPITATION TABLE - ROTORS								
VALVE NUMBER	VALVE SIZE	SPRINKLER MODEL TYPE	GPM	NUMBER OF HEADS	NOZZLE	PRECIPITATION RATES	RUNTIME FOR 0.67" OF WATER IN MINUTES	SHEET
1	1"	1-20-06-SS-#1.5 BLACK	15.4	14	#1.5 BLACK	0.57	70	L & I SHEET L3
3	1"	1-20-06-SS-#1.5 BLACK	11.0	10	#1.5 BLACK	0.57	70	
4	1"	1-20-06-SS-#1.5 BLACK	20.9	19	#1.5 BLACK	0.57	70	
5	1"	1-20-06-SS-#1.5 BLACK	3.3	3	#1.5 BLACK	0.25	163	
7	1"	1-20-06-SS-#1.5 BLACK	8.8	8	#1.5 BLACK	0.57	70	
8	1"	1-20-06-SS-#2.5 BLUE	23.8	14	#2.5 BLUE	0.43	94	L & I SHEET L4
9	1"	1-20-06-SS-#2.5 BLUE	25.5	15	#2.5 BLUE	0.43	94	
10	1"	1-20-06-SS-#2.5 BLUE	15.3	9	#2.5 BLUE	0.19	212	
13	1"	1-20-06-SS-#2.5 BLUE	30.6	18	#2.5 BLUE	0.43	94	
14	1"	1-20-06-SS-#2.5 BLUE	10.2	6	#2.5 BLUE	0.19	212	
15	1"	1-20-06-SS-#2.5 BLUE	20.4	12	#2.5 BLUE	0.43	94	L & I SHEET L5
17	1"	1-20-06-SS-#2.5 BLUE	20.4	12	#2.5 BLUE	0.43	94	
18	1"	1-20-06-SS-#2.5 BLUE	11.9	7	#2.5 BLUE	0.19	212	
19	1"	1-20-06-SS-#2.5 BLUE	25.5	15	#2.5 BLUE	0.43	94	
22	1"	1-20-06-SS-#2.5 BLUE	22.1	13	#2.5 BLUE	0.43	94	
23	1"	1-20-06-SS-#2.5 BLUE	10.2	6	#2.5 BLUE	0.19	212	
25	1"	1-20-06-SS-#2.5 BLUE	13.6	8	#2.5 BLUE	0.43	94	
26	1"	1-20-06-SS-#2.5 BLUE	18.7	11	#2.5 BLUE	0.43	94	
27	1"	1-20-06-SS-#2.5 BLUE	10.2	6	#2.5 BLUE	0.43	94	
TOTAL RUN TIME:						2231 MIN. OR 37 HRS.	11 MIN.	

WATERING SCHEDULE				
STATION NUMBER	GPM	RUN TIME		
		START TIME	END TIME	TOTAL MINUTES
1, 3, 4 & 7	56.1	10:00 PM	11:10 PM	70 MIN.
5	3.3	11:10 PM	1:53 AM	163 MIN.
8, 9, 15, 25 & 26	102.0	11:10 PM	3:27 AM	94 MIN.
10, 14, 18 & 23	47.6	12:44 AM	6:59 AM	212 MIN.
13, 17, 19, 22 & 27	108.8	5:50 AM	8:33 AM	94 MIN.
TOTAL RUN TIME, THREE DAYS PER WEEK:		10	HRS.	33 MIN.

VALVE AND PRECIPITATION TABLE - EMMITTERS							
VALVE NUMBER	VALVE SIZE	SPRINKLER MODEL TYPE	GPM	NUMBER OF HEADS	NOZZLE	PRECIPITATION RATES	RUN TIME IN MINUTES
2	1"	XERI-BIRD 8	5.87	22	XBD-80	-	45
6	1"	XERI-BIRD 8	4.80	18	XBD-80	-	45
11	1"	XERI-BIRD 8	7.47	28	XBD-80	-	45
12	1"	XERI-BIRD 8	7.47	28	XBD-80	-	45
16	1"	XERI-BIRD 8	7.20	27	XBD-80	-	45
20	1"	XERI-BIRD 8	6.93	26	XBD-80	-	45
21	1"	XERI-BIRD 8	5.33	20	XBD-80	-	45
24	1"	XERI-BIRD 8	6.67	25	XBD-80	-	45
TOTAL RUN TIME:						360 MIN. OR 6 HRS.	0 MIN.

FILE LOCATION S:\LANDSCAPE\DE 74\DWG\DE 74 L&I PLOTTED ON Wednesday, September 27, 2017 5:18:07 PM BY ESTEBAN JUAREZ

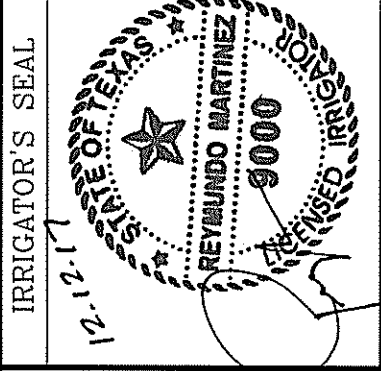


PARKS DEPARTMENT
 REVIEWED BY: *[Signature]* 07/01/2018

DATE	BY	REVISIONS

PROJECT NAME
FOSTERING FUN LINEAR PARK
14619 CHARLES FOSTER AVE.
 BEING ALL OF LOT 2, BLOCK 547, LOT 1, BLOCK 550,
 LOT 1, BLOCK 551 AND A PORTION OF LOT 1, BLOCK 552,
 TIERRA DEL ESTE UNIT SEVENTY FOUR,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 3.59± ACRES

SCALE
 HORIZ:
 VERT:
 DATE: OCT. 2016
 DESIGN BY: R.M.
 INITIATED BY: E.J.
 CHECKED BY: R.M.
 JOB NO.:

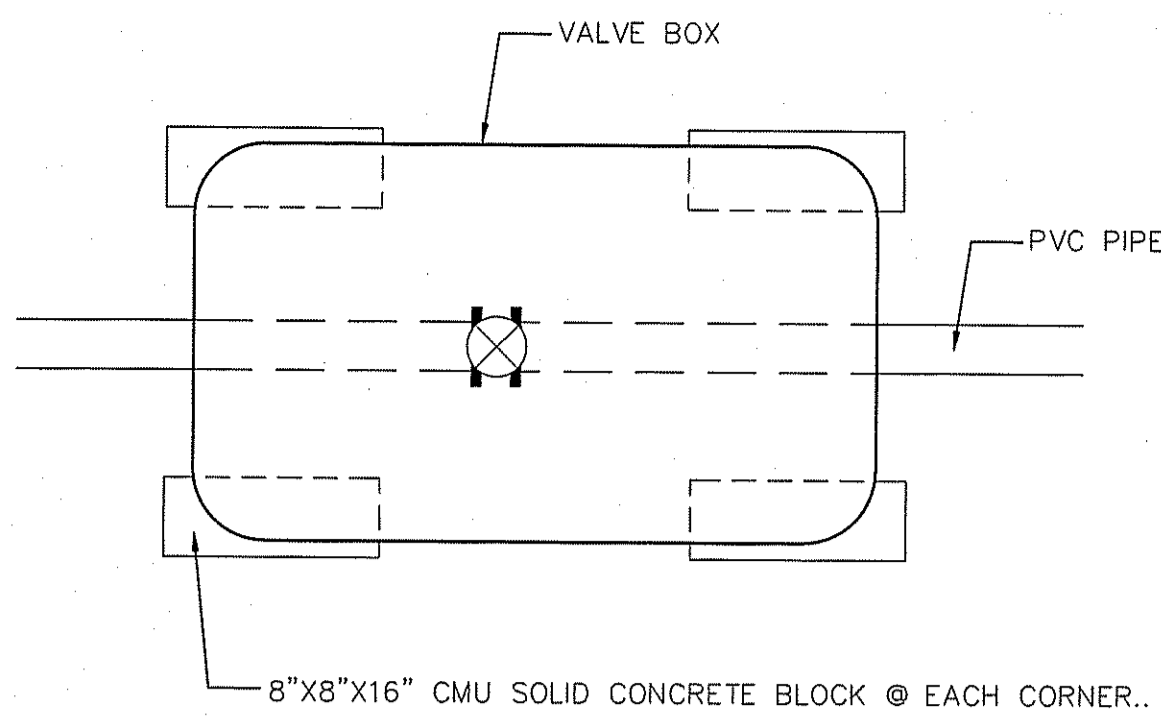


CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286



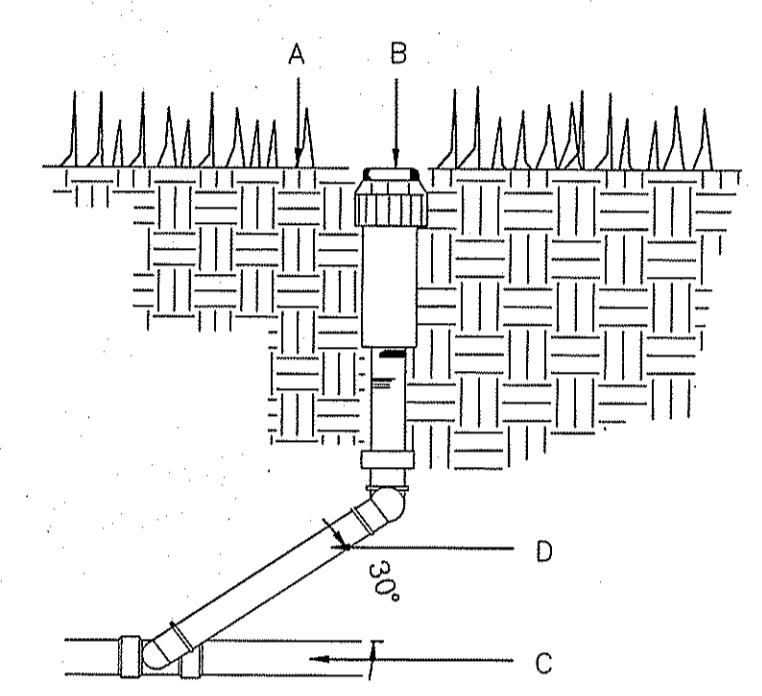
SHEET TITLE
FOSTERING FUN LINEAR PARK LANDSCAPE AND IRRIGATION CALCULATIONS

SHT **L6** OF **L12**



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

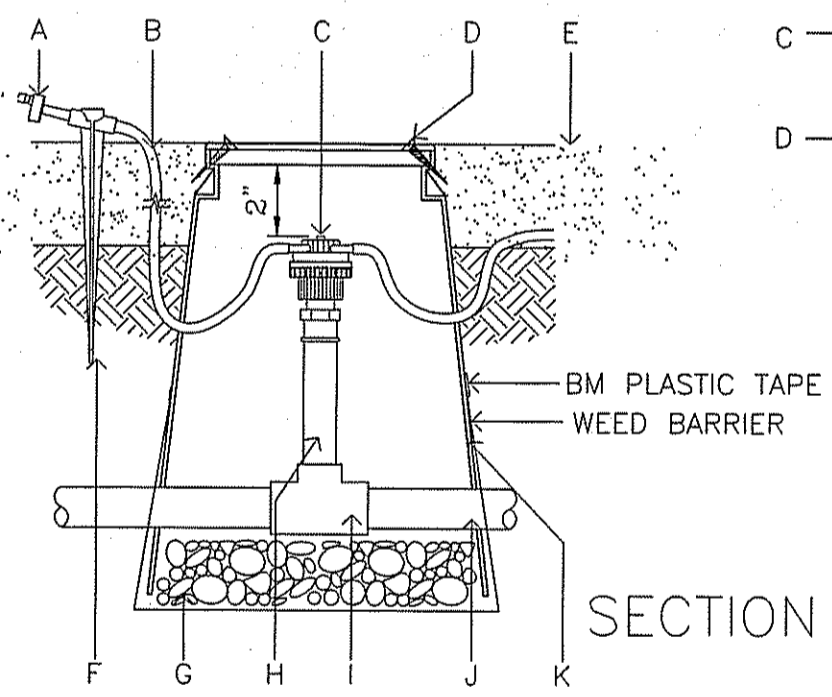
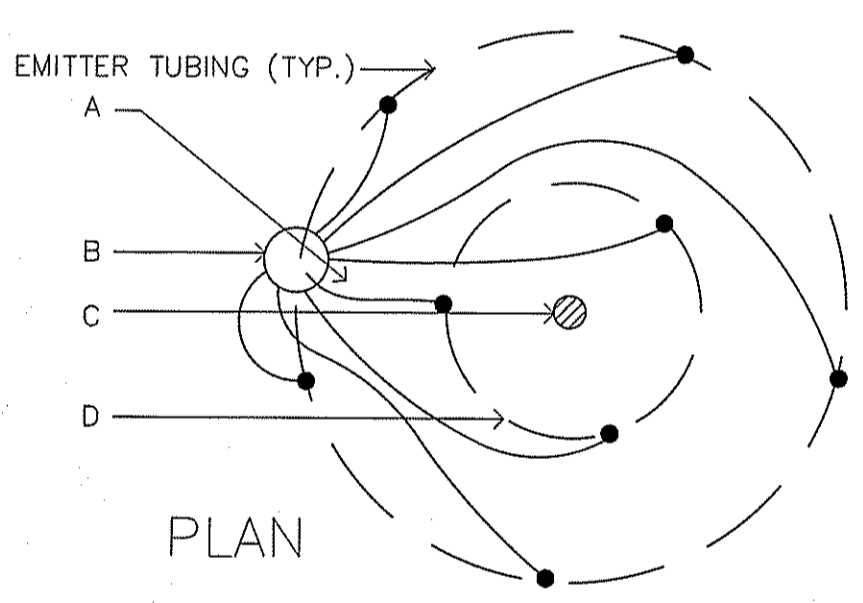
BRICK PLACEMENT ON VALVE BOXES
NTS



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

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

IRRIGATION SPRINKLER HEAD
NTS

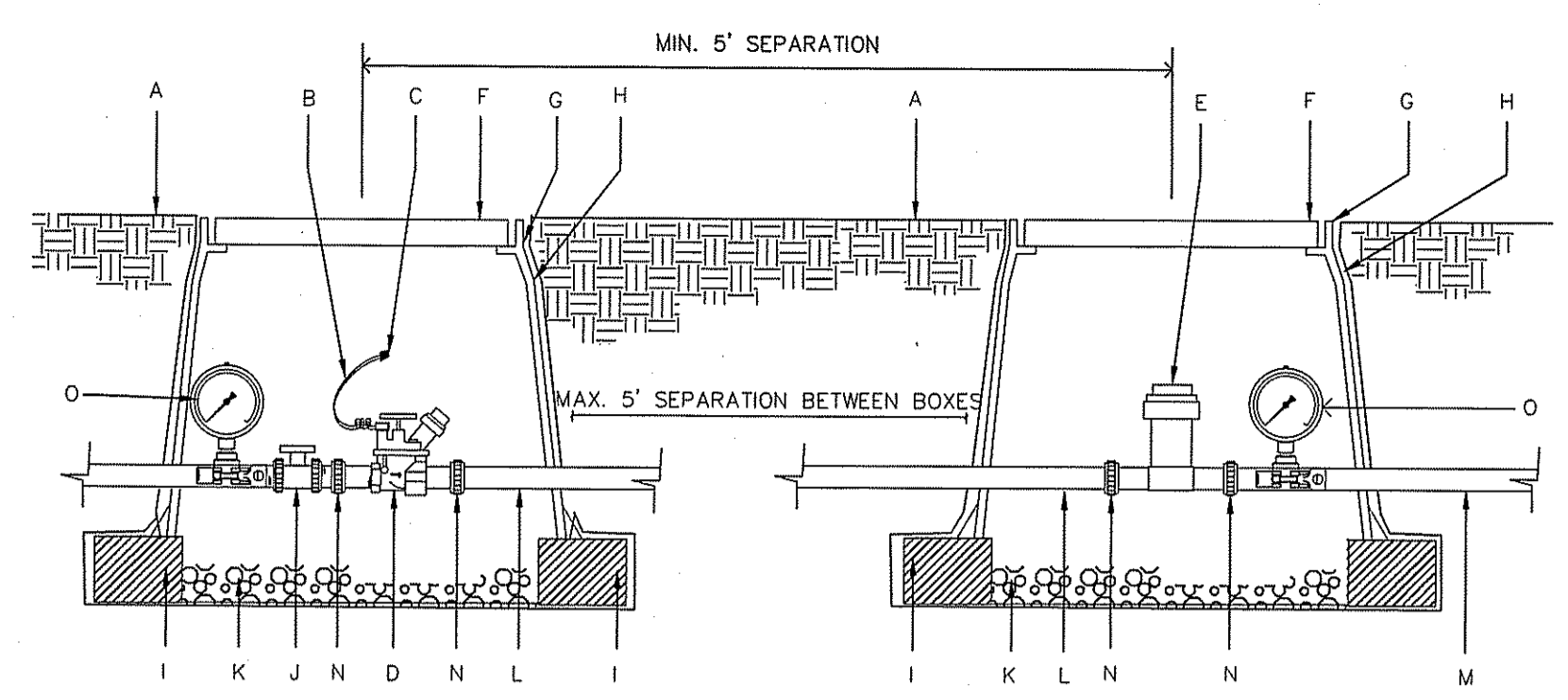


INSTALL (8) EMITTERS PER TREE. SPACE EVENLY AROUND ROOTBALL, IN OFFSET TRIANGULAR PATTERN FOR TREES. SEE IRRIGATION LEGEND FOR OUTLET EMITTER SIZE.

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

MULTI -8- OUTLET EMITTER FOR TREE
NTS

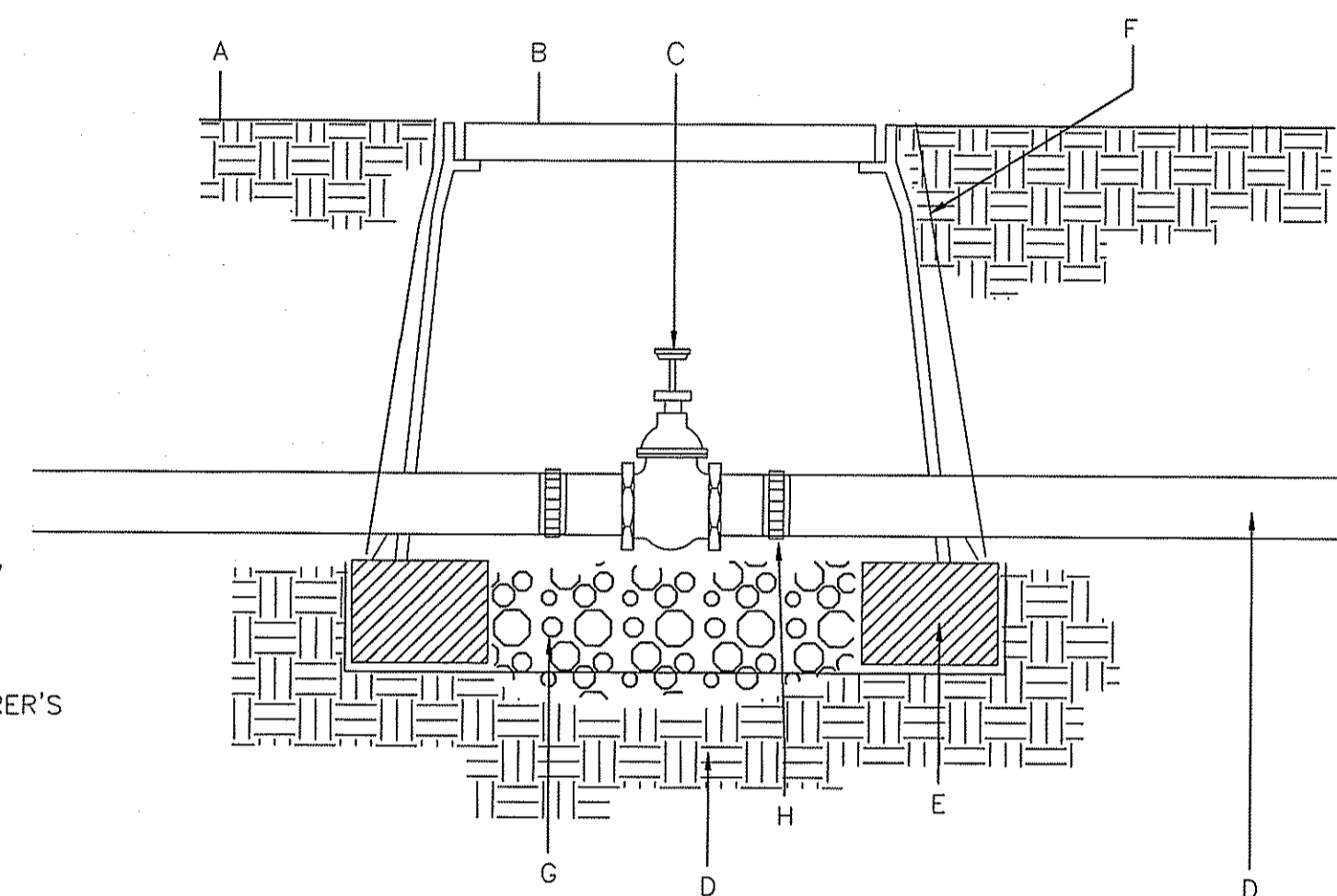
CONSTRUCTION NOTES:
1. ENSURE SINGLE OUTLET EMITTER IS ON TOP OF THE PLANT'S ROOTBALL.
2. LOCATE SINGLE OUTLET EMITTERS AROUND TREES AS PER PLAN DIAGRAM ABOVE.
3. LOCATE SINGLE OUTLET EMITTERS FOR 1 GALLON & 5 GALLON ON OPPOSITE SIDES OF ROOTBALL.
4. WEED BARRIER TO BE INSTALLED UNDER WASHED PEA GRAVEL AND WRAPPED AROUND EMITTER BOX THEN TAPE WITH ALL PENETRATIONS SEALED. USE 3M BRAND HEAVY DUTY PLASTIC TAPE.



DRIP VALVE/ BASKET FILTER KIT

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

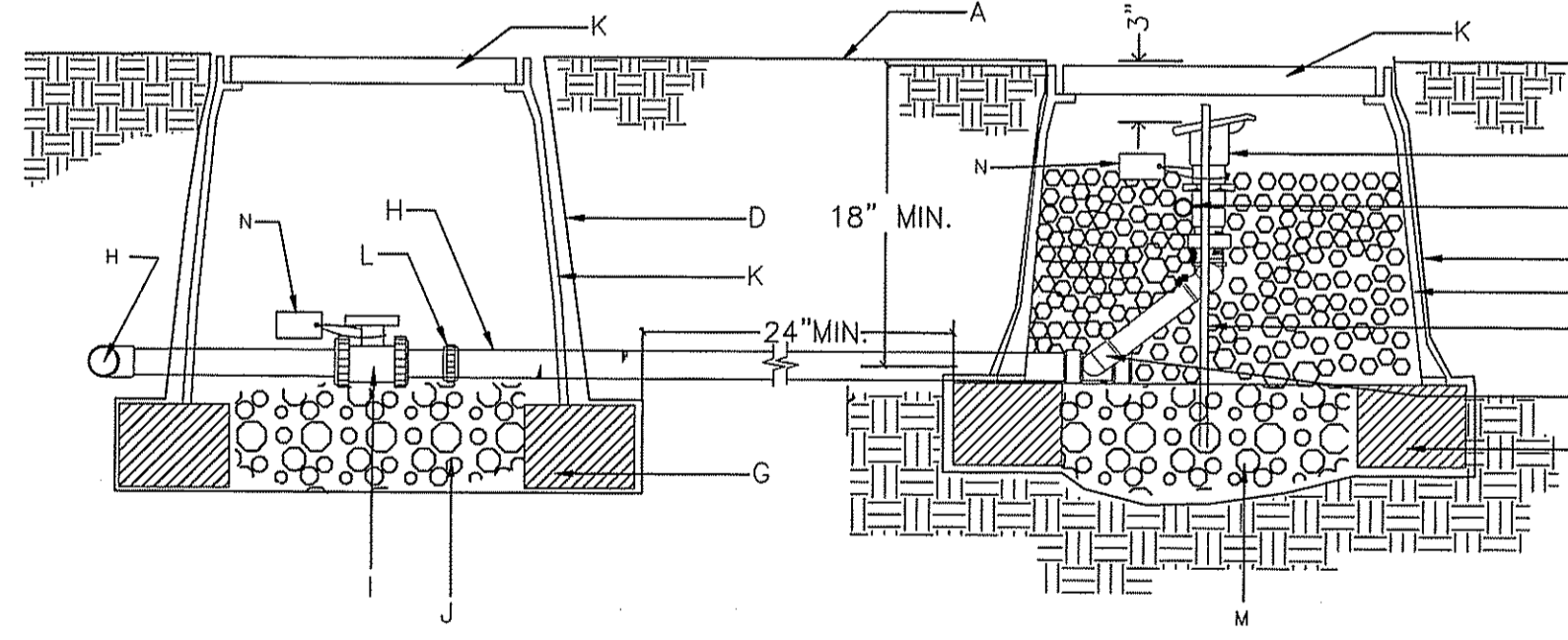
NOTE: PROVIDE 1 PRESSURE GAUGE ON MAIN LINE UPSTREAM OF BALL VALVE AND ANOTHER DOWNSTREAM OF KIT'S PRESSURE REGULATOR. PROVIDE 5' SEPARATION BETWEEN BOXES. IF SPACE IS NOT AVAILABLE, PROVIDE A MIN. 5' SEPARATION AT CENTER LINES OF BOXES. SET GAGES HORIZONTAL TO BE READABLE.



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

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

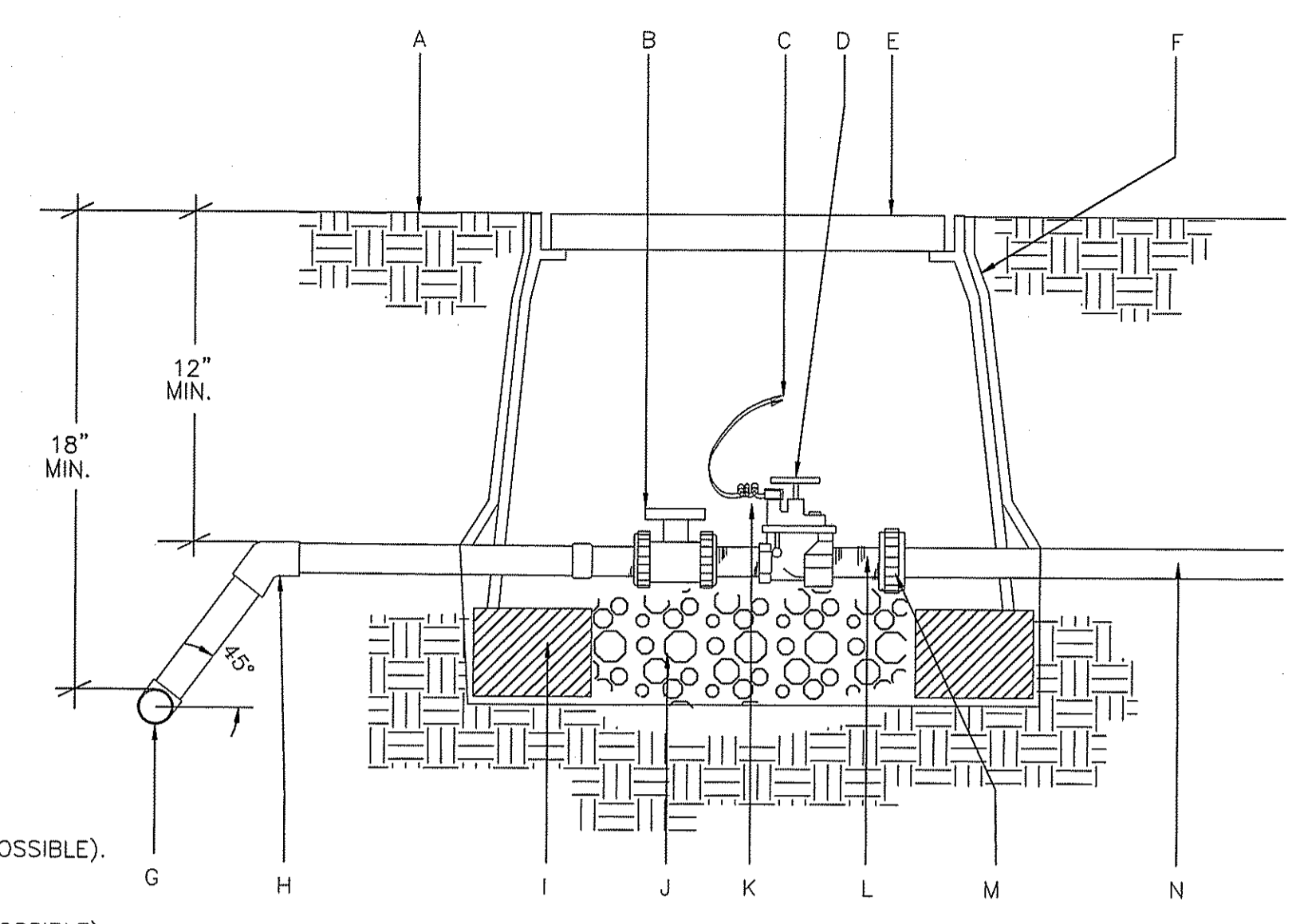
ISOLATION VALVE
NTS



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

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

QUICK COUPLER VALVE
NTS



IRRIGATION CONTROL VALVE
NTS

1. DIFFUSER BUG CAP- RAIN BIRD DBC-025 (1 OF 2 SHOWN, 8 POSSIBLE).
2. UNIVERSAL RAIN BIRD TS-025 (1 OF 2 SHOWN, 8 POSSIBLE).
3. 1/4" DISTRIBUTION TUBING: RAIN BIRD XQ XUBINING STAKE: (LENGTH AS REQUIRED) (1 OF 2 SHOWN, 8 POSSIBLE).
4. SUBTERRANEAN EMITTER BOX: CARSON 910 SERI ES (GREEN IN TURF AREAS AND TAN IN ROCK LANDSCAPE AREAS).
5. MULTI-8-OUTLET EMISSION DEVICE: RAIN BIRD XERI-BIRD XBD-80.
6. INSTALL 2 #8, 2" LONG SELF TAPING BRASS SCREWS.
7. FINISH GRADE.
8. PVC SCH 80 THREADED NIPPLE LENGTH AS NEEDED.
9. PVC SCH 40 TEE OR ELL.
10. PVC LATERAL PIPE.
11. 3" MINIMUM DEPTH OF 3/4" WASHED PEA GRAVEL.
12. SINGLE-OUTLET BARB INLET X BARB OUTLET EMITTER: RAIN BIRD XERI-BIRD XBD-80.
13. WEED BARRIER TAPED TO EMITTER BOX AND PIPE PENETRATION. TAPE TO BE 3M BRAND HEAVY DUTY PLASTIC TAPE.

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

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

NOTES:
1. COIL ADDITIONAL 9" OF TUBING IN EMITTER BOX TO FACILITATE MAINTENANCE.
2. RAIN BIRD XERI-BUG BARB X BARB EMITTERS ARE AVAILABLE IN THE FOLLOWING MODELS:
XB-05PC 0.5 GPH XB-10PC 1.0 GPH XB-20PC 2.0 GPH

MULTI -8- OUTLET EMITTER
NTS

BACKFLOW ENCLOSURE GENERAL NOTES:

ASSE STANDARD #1060 (ISSUED MARCH 13, 2006)
PERFORMANCE REQUIREMENTS FOR OUTDOOR ENCLOSURES FOR BACKFLOW PREVENTION ASSEMBLIES
SECTION 3.1.1:
ENCLOSURES SHALL CONTAIN A HEAT SOURCE CAPABLE OF MAINTAINING 4°C (40°F) INSIDE THE ENCLOSURE WHEN SUBJECTED TO 34°C (-34°F) OUTSIDE AIR TEMPERATURE.

SECTION 3.2.1:
ENCLOSURES shall be designed to support a minimum vertical load of 100 lb/sf.

section 3.3.1:
depth of water within the enclosure shall not exceed 6 inches during full flow of the back flow preventer relief discharge.

SECTION 3.5.2:
Enclosure shall be designed to be accessed and provide sufficient room for testing and maintenance. drawings shall be submitted by the manufacturer.

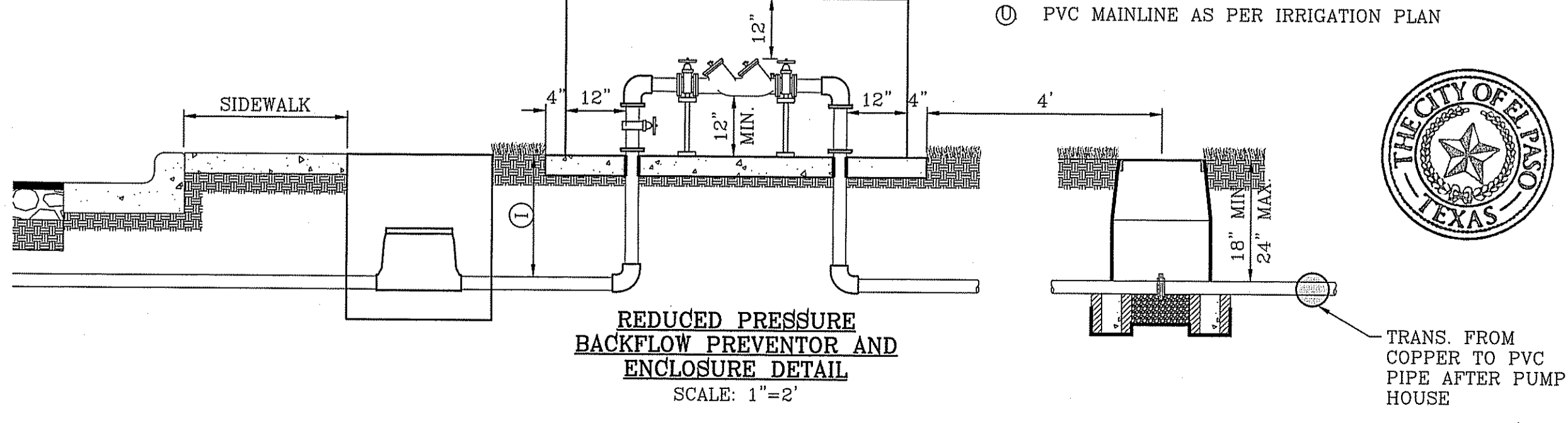
GENERAL NOTES:

1. ENCLOSURE MUST COMPLY WITH ASSE#1060 FOR BACKFLOW DEVICE.
2. DO NOT INSTALL IN FLOOD PRONE AREAS.
3. METAL RISER PIPING REQUIRED.
4. JOINTS TO BE ADEQUATELY RESTRAINED.
5. HORIZONTAL INSTALLATION REQUIRED AS SHOWN.
6. RPBP SHALL BE SUPPORTED AT ALL TIMES DURING AND AFTER INSTALLATION. PIPES ARE NOT TO BARE WEIGHT OF RP DEVICE. BACKFLOW PREVENTION DEVICE SHALL BE PROPERLY SUPPORTED BY BRACKETS AND NOT COPPER RISERS OR COPPER RISERS WILL BE REPLACED.

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.

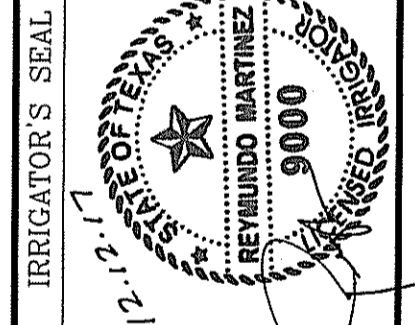


PROPOSED TIERRA DEL ESTE UNIT SEVENTY FOUR PARK

BENCHMARK	
REVISIONS	
DATE	
BY	

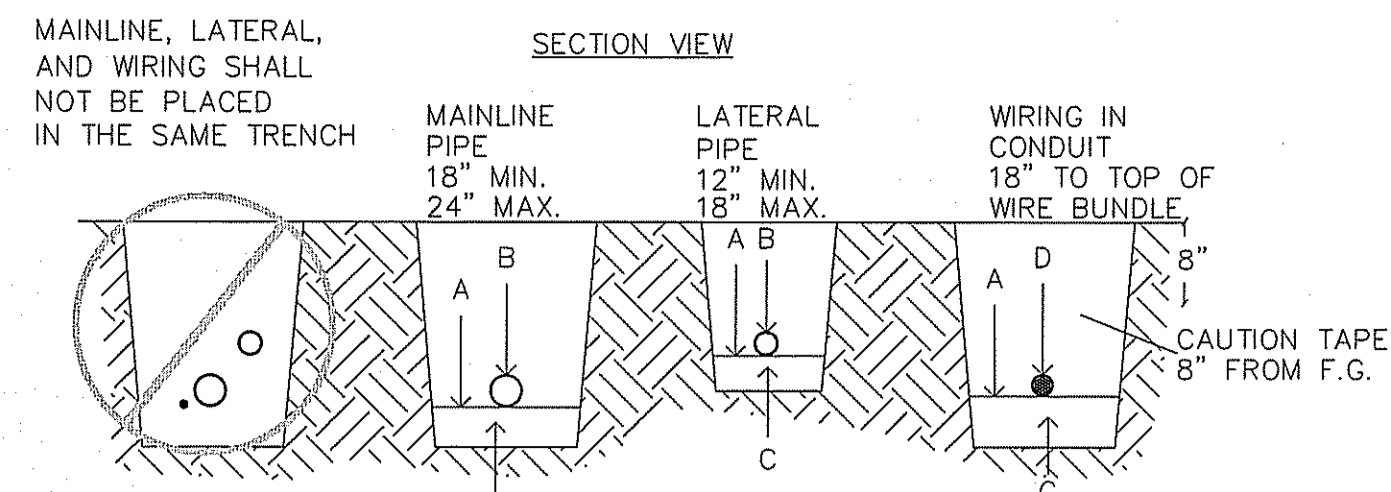
PROJECT NAME
FOSTERING FUN LINEAR PARK
14619 CHARLES FOSTER AVE.
BEING ALL OF LOT 2, BLOCK 847, LOT 1, BLOCK 550, LOT 1, BLOCK 551, QUANTITY SEVEN (7) ACRES, TRACTS DEL. ESTE UNIT SEVENTY FOUR PARK, CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 3.59± ACRES

S C A L E
HORIZ: AS SHOWN
VERT: --
DATE: OCT. 2016
DESIGNED BY: R.M.
INITIATED BY: E.J.
CHECKED BY: R.M.
JOB NO.:

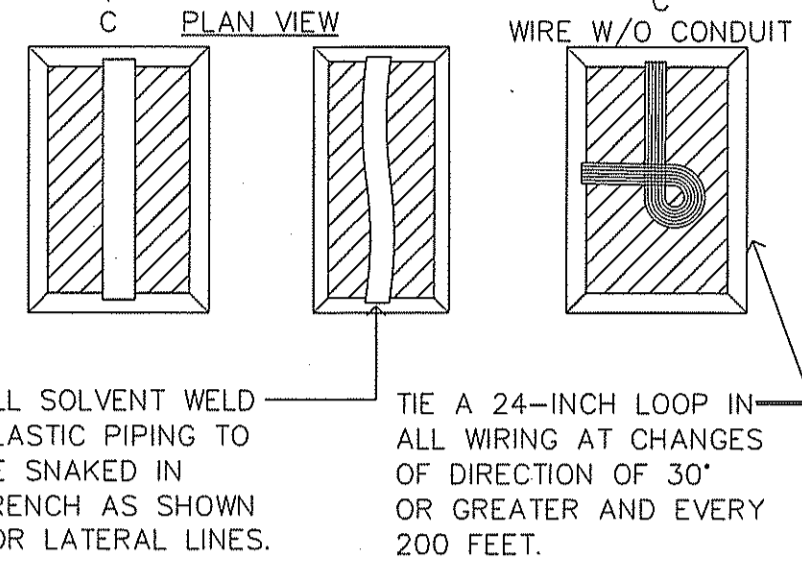


CONDE INC.
ENGINEERING / PLANNING / SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0285
FAX: (915) 692-0286

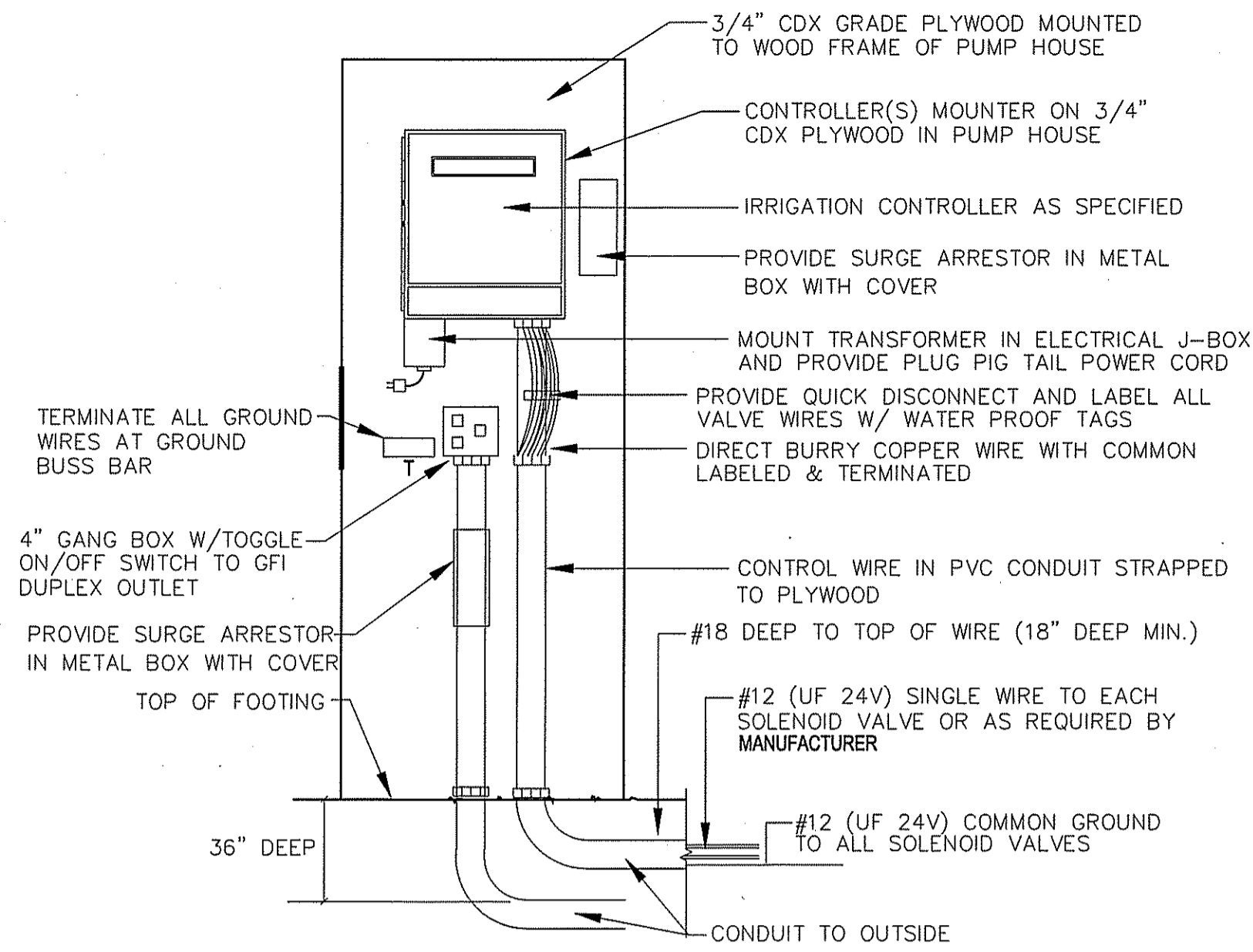
SHEET TITLE
LANDSCAPE AND IRRIGATION DETAILS & NOTES



SET WIRE BUNDLE AT 5' FROM MAINLINE ALONG THE NORTH AND WEST SIDE OF MAIN OR AS AGREED TOO WITH PARKS STAFF.

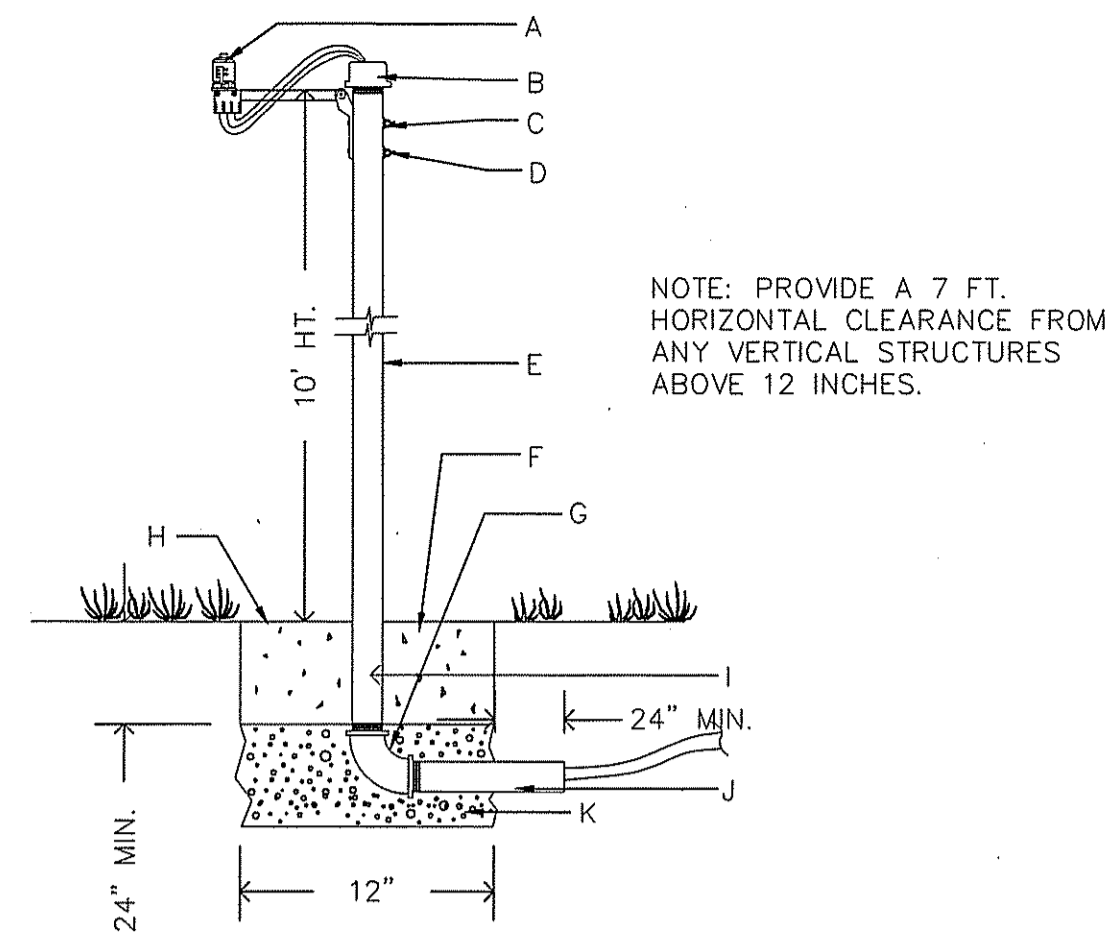


- NOTES: A. BOTTOM OF EXCAVATED TRENCH WHERE NONE ROCKY SOILS ARE EXPOSED (ENCOUNTERED).
 B. IRRIGATION SYSTEM PIPING.
 C. MINIMUM 4" DEEP BEDDING SANDY SOILS MATERIAL WHERE ROCKY SOILS ARE EXPOSED.
 D. IRRIGATION SYSTEM VALVE WIRING.
 E. BACKFILL SOILS MATERIAL MAY BE NATIVE SOILS IF IT IS FREE OF CALICHE OR STONES LARGER THANK 1" IN SIZE AND ORGANIC MATTER OR WASTE DEBRIS. SOILS COMPACTION IN TURF AREAS TO BE 80% TO 85% DENSITY BY ASTM D-1557 STANDARD AND AT 95% DENSITY UNDER PAVED OR HARDCAPE SURFACES.



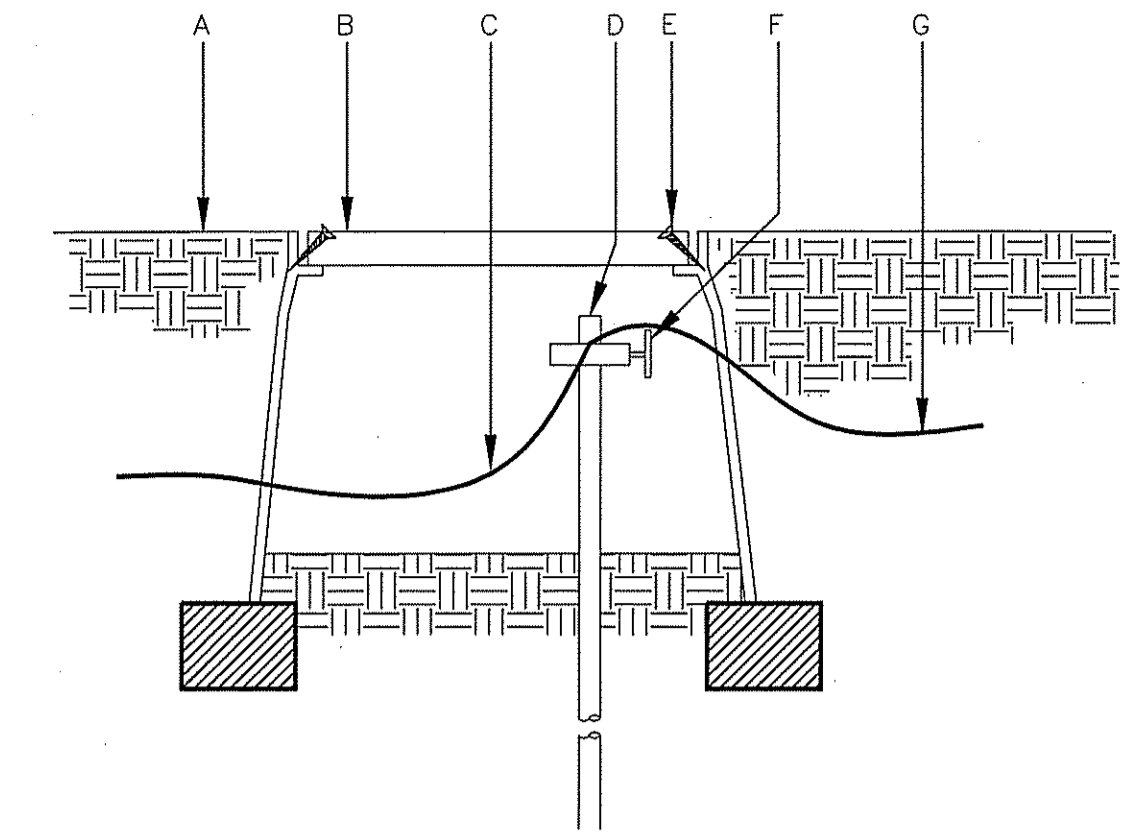
CONTROLLER WALL MOUNT DETAIL INSIDE PUMP HOUSE

NTS



RAIN SENSOR AND NOTES

- A. RAIN BIRD RSD-BEX RAIN SENSOR. SET TO 1/8"
 B. 2 1/2" PIPE CAP WITH HOLE FOR WIRES AND SEAL WITH EXTERIOR GRADE SILICONE SEALANT.
 C. DRILL TWO 3/16" HOLES IN PIPE FOR SENSOR BRACKET.
 D. (2) NO. 8-32 MACHINE SCREWS WITH WASHER, LOCK WASHER AND NUT.
 E. 2 1/2" SCH 40 GALVANIZED PIPE-10 FT. HT. A.G.
 F. 12"x12" CONCRETE BASE, MIN. 24" DEEP.
 G. PIPE ELBOW.
 H. FINISH GRADE
 I. PIPE TO BE SEALED AFTER CABLE IS RUN, USE 4 MIL. PLASTIC AND TAPED NIPPLE AND THE CABLE WITH HIGH GRADE 3M WEATHER PROOF PLASTIC TAPE.
 J. NIPPLE. GALVANIZED PIPE IN CONCRETE FOOTING TO BE WRAPPED WITH WEATHER PROOF TAPE TO PROTECT FROM CORROSION.
 K. 6" THICK, 3/8" DIAMETER WASHED PEA GRAVEL.



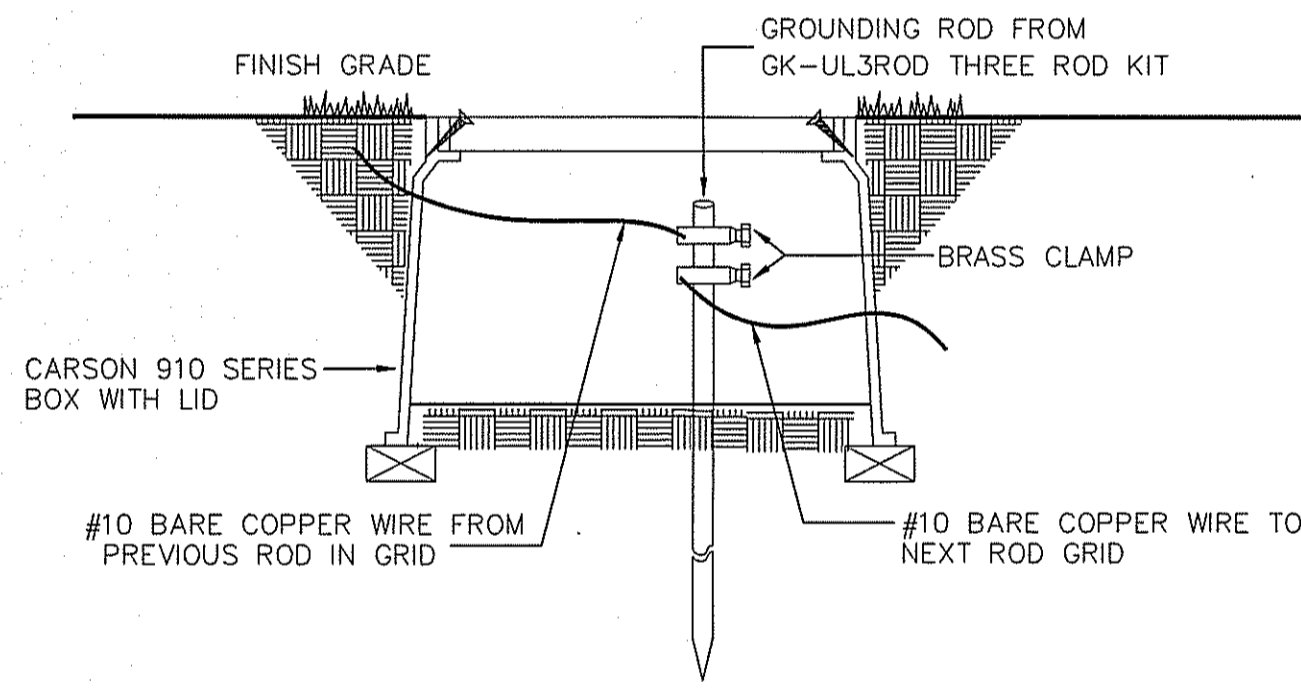
GROUNDING WIRES INTERMEDIATE

NTS

- A. FINISH GRADE.
 B. CARSON 910 SERIES VALVE BOX WITH LID AND SCREWS, COLOR TO MATCH MULCH.
 C. NO. 10 BARE COPPER WIRE FROM PREVIOUS ROD IN GRID.
 D. GROUNDING ROD FROM GK-UL3ROD THREE ROD KIT.
 E. INSTALL SELF TAPING #8, 2" LONG BRASS SCREWS.
 F. BRASS CLAMP.
 G. NO. 10 BARE COPPER WIRE CONTINUING TO NEXT ROD IN GRID.
 NOTE: SEE GROUNDING ROD NOTES FOR INSTALLATION INSTRUCTIONS.

PIPE / WIRE IN TRENCH

NTS



SEE GROUNDING ROD NOTES FOR INSTALLATION INSTRUCTIONS

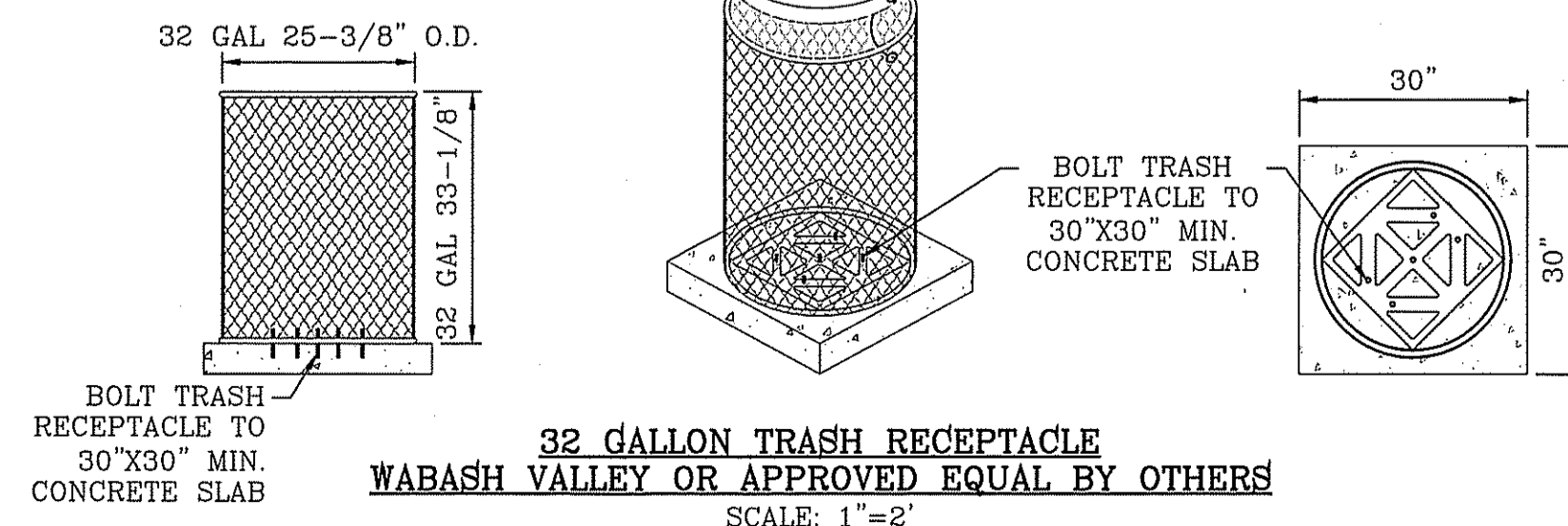
GROUNDING ROD NOTES:

GROUNDING RODS SERVE AS ELECTRODES FOR DEVICES TO DISSIPATE THE SURGE INTO THE EARTH. CAREFULLY READ THE FOLLOWING INSTALLATION INSTRUCTIONS:

- ALWAYS USE A 5/8" X 8' COPPER CLAD ROD.
- RUN A #10 OF 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.
- TO INSTALL GROUNDING ROD, USE GK-TOOLS ROD DRIVING SLEEVE.
- SPACE THREE RODS IN A TRIANGULAR GRID AT LEAST 8' APART FROM THE OTHERS IN THE GRID. CONNECT ALL THREE RODS WITH A SOLID # 10 COPPER WIRE.
- WHEN TESTED WITH THE PROPER EQUIPMENT, GRIDS SHOULD HAVE AN EARTH RESISTANCE NO GREATER THAN 10 OHMS.
- WHENEVER MORE THEN 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.
- GROUNDING RODS SERVE AS ELECTRODES FOR THE SURGE DEVICES TO DISSIPATE THE SURGE INTO THE EARTH REMEMBER THESE TIPS WHEN INSTALLING THEM.

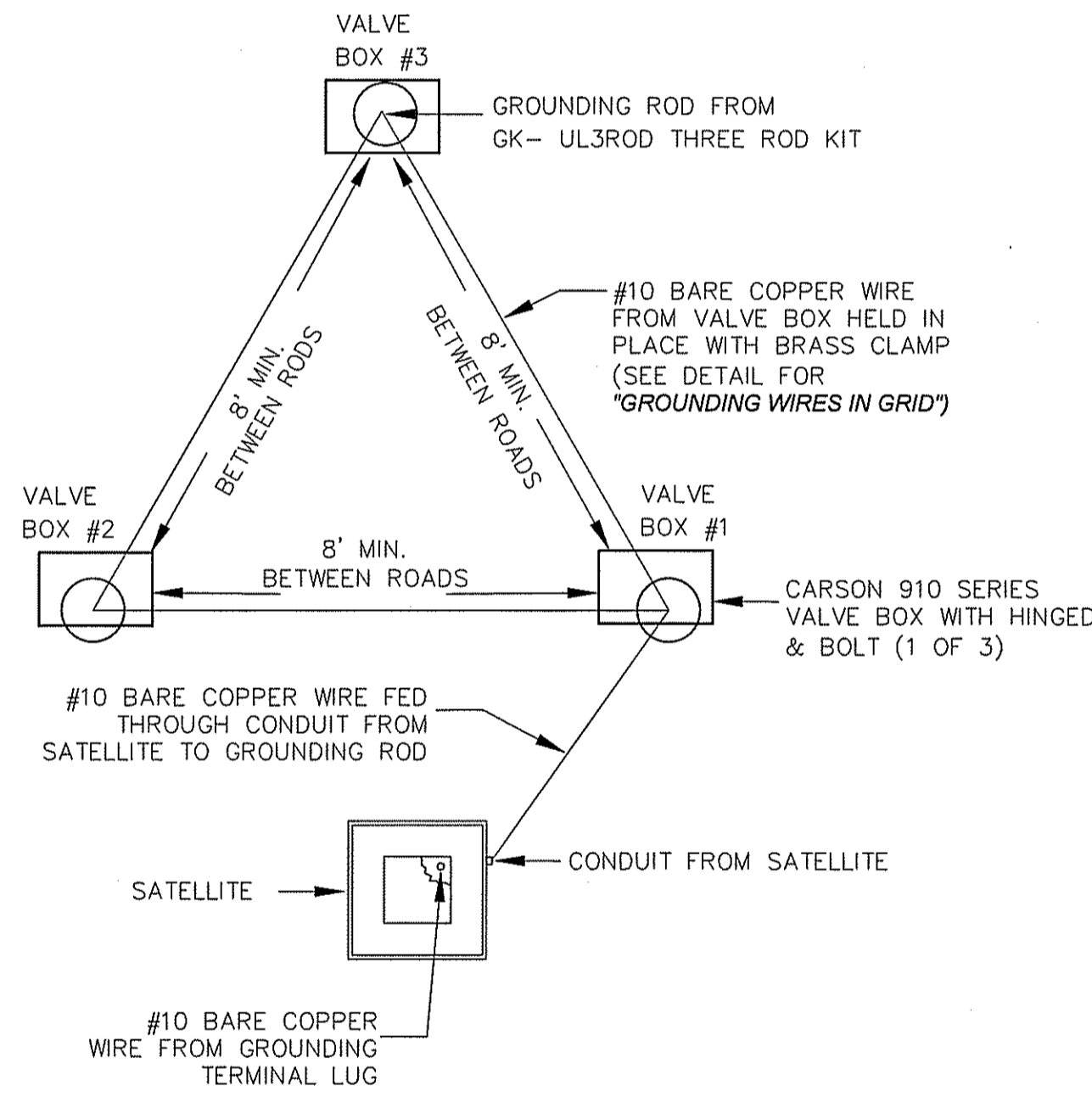
GROUNDING WIRES IN GRID DETAIL INITIAL TERMINAL

NTS



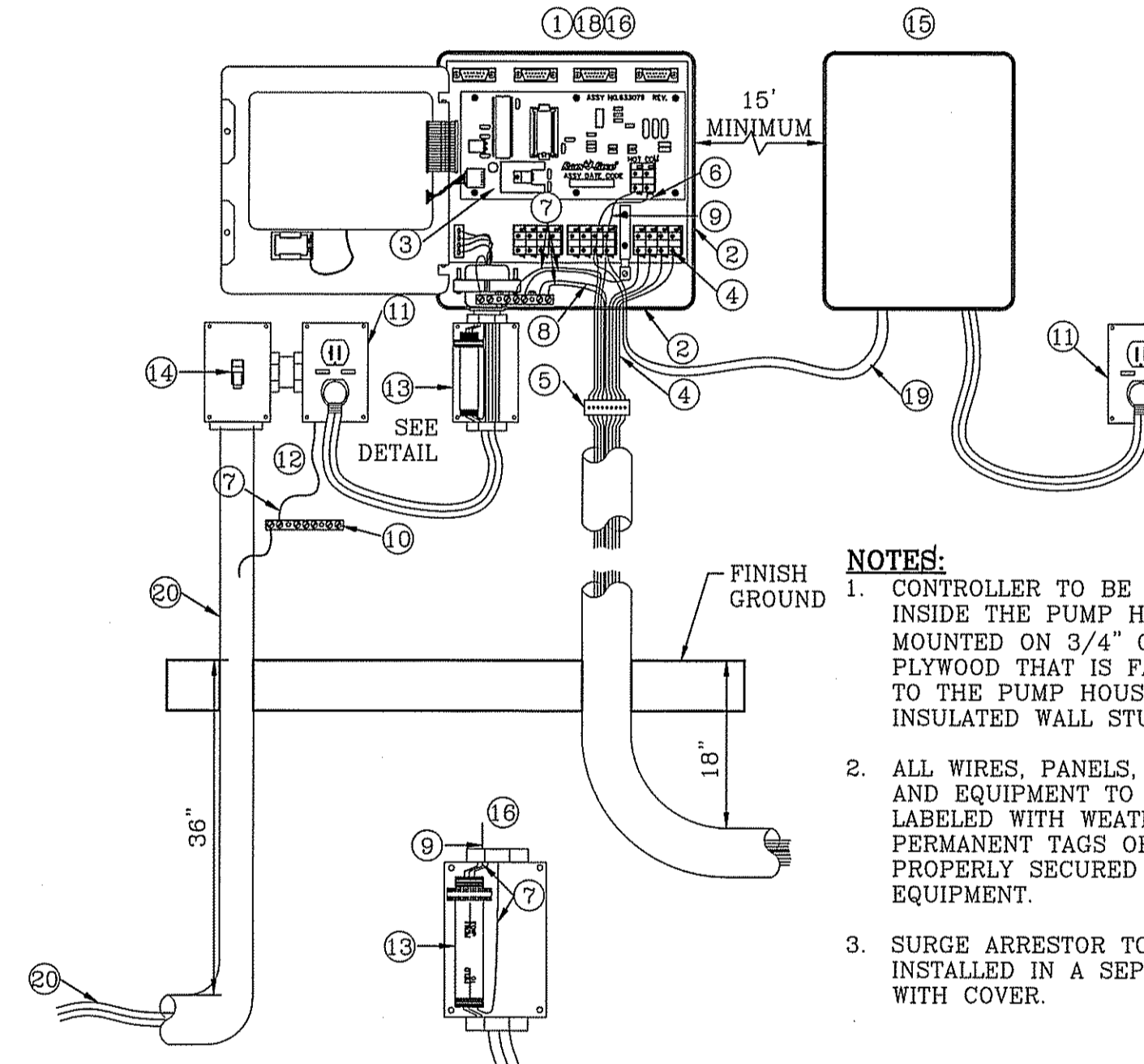
32 GALLON TRASH RECEPTACLE WABASH VALLEY OR APPROVED EQUAL BY OTHERS

SCALE: 1"=2'



TRIANGULAR GROUNDING PLAN VIEW DETAIL

NTS

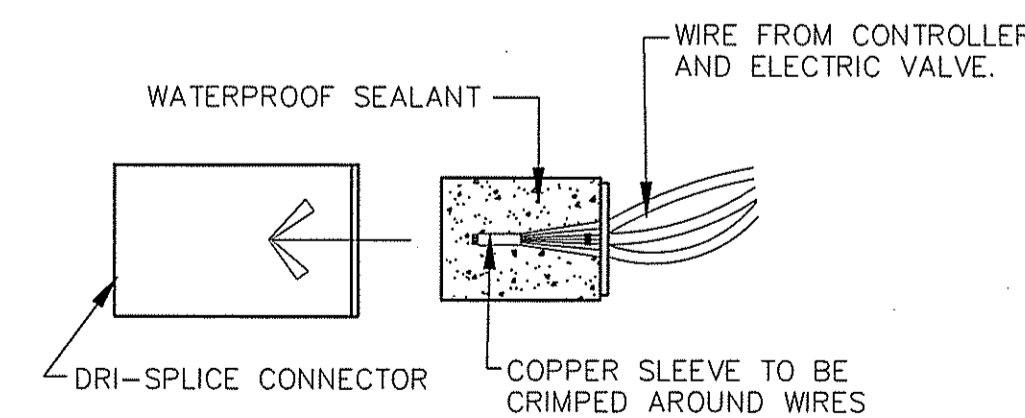


ESP-XXMC INSTALLATION DETAIL

SCALE: 1"=1'

NOTES:

- CONTROLLER TO BE INSTALLED INSIDE THE PUMP HOUSE AND MOUNTED ON 3/4" CDX GRADE PLYWOOD THAT IS FASTENED TO THE PUMP HOUSE INSULATED WALL STUDS.
- ALL WIRES, PANELS, CONDUITS, AND EQUIPMENT TO BE LABELED WITH WEATHER PROOF PERMANENT TAGS OR PLAQUES PROPERLY SECURED TO THE EQUIPMENT.
- SURGE ARRESTOR TO BE INSTALLED IN A SEPARATE BOX WITH COVER.
- INSTALL IN NEMA2 APPROVED METAL ENCLOSURE TO HOUSE IRRIGATION SYSTEM CONTROLLER.
- RAIN BIRD ESP-SAT WALL MOUNT (METAL/PLASTIC) FIELD SATELLITE CONTROLLER
- ESP-SAT TWO-WIRE MAXICOM 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 AND MUST BE WATER/WEATHER PROOF. PLACE A QUICK DISCONNECT IN THIS GENERAL LOCATION SEPARATE FROM THE ONE ON THE CLOCK (CONTROLLER)
- PLACE A QUICK DISCONNECT IN THIS GENERAL LOCATION SEPARATE FROM THE ONE ON THE CONTROLLER AND MOUNTED WITHIN METAL PEDESTAL ENCLOSURE.
- COMMON WIRE (BLACK) FROM MSP-1 SURGE ARRESTOR TO MAXICOM 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 MAXICOM DETAIL 305)
- HOT WIRE (RED) FROM MSP-1 SURGE ARRESTOR TO MAXICOM INTERFACE BOARD (MIB)
- GROUNDING BUSS BAR IN CABINET SEPARATE OF CONTROLLER
- 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 INSTALLED IN SEPARATE JUNCTION BOX WITH COVER
- POWER ON/OFF TOGGLE SWITCH
- PUMP START RELAY
- RAIN BIRD WARRANTY REQUIRES PROPER SURGE PROTECTION IN A METAL BOX WITH LID. USE INTERMATIC AG2401 OR TRIPPLITE ISOBAR.
- N/A
- IF PUMP IN PUMP HOUSE IS REQUIRED, CONTROLLER TO BE INSTALLED INSIDE THE PUMP HOUSE AND MOUNTED ON 3/4" CDX GRADE PLYWOOD THAT IS FASTENED TO THE PUMP HOUSE INSULATED WALL STUDS. SURGE ARRESTOR TO BE INSTALLED IN A SEPARATE JUNCTION BOX WITH COVER
- COMMON WIRE/MASTER VALVE WIRE
- ELECTRICAL POWER CONDUIT FOR 120 VOLT POWER TO BE BURIED AT 36" DEPTH FROM FINISH GROUND TO TOP OF PIPE AND EXTENDED TO DUPLEX OUTLET BOX WITH LABELS AND PERMANENT TAGS. SEE DETAIL.



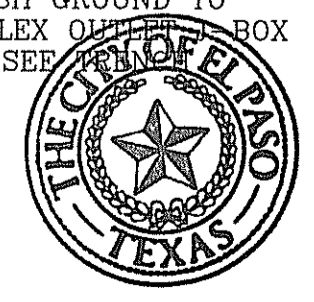
WIRE CONNECTORS

NTS

THREE STEP OPERATION DRI-SPLICE CONNECTOR ONLY. FILL WITH SEALANT SUFFICIENT TO SEAP WHEN ASSEMBLED.

PARKS DEPARTMENT

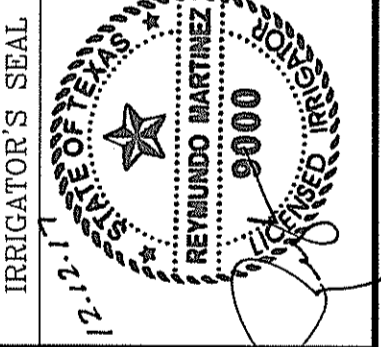
REVIEWED BY *Anthony...* 02/11/2018



REVISIONS	
DATE	BY

PROJECT NAME
FOSTERING FUN LINEAR PARK
 14619 CHARLES FOSTER AVE.
 BEING ALL OF LOT 2, BLOCK 547, LOT 1, BLOCK 560,
 LOT 1, BLOCK 561, AND A PORTION OF LOT 1, BLOCK 562,
 BEING PART OF THE SURVEY OF SEVENTY FOUR
 ACRES, BEING THE ESTATE OF JAMES M. MCGEE, JR.,
 CITY OF BEAUFORT, TEXAS,
 CONTAINING: 3.692 ACRES

DATE: OCT. 2016
 DESIGN BY: R.M.
 INITIATED BY: E.J.
 CHECKED BY: R.M.
 JOB NO.:

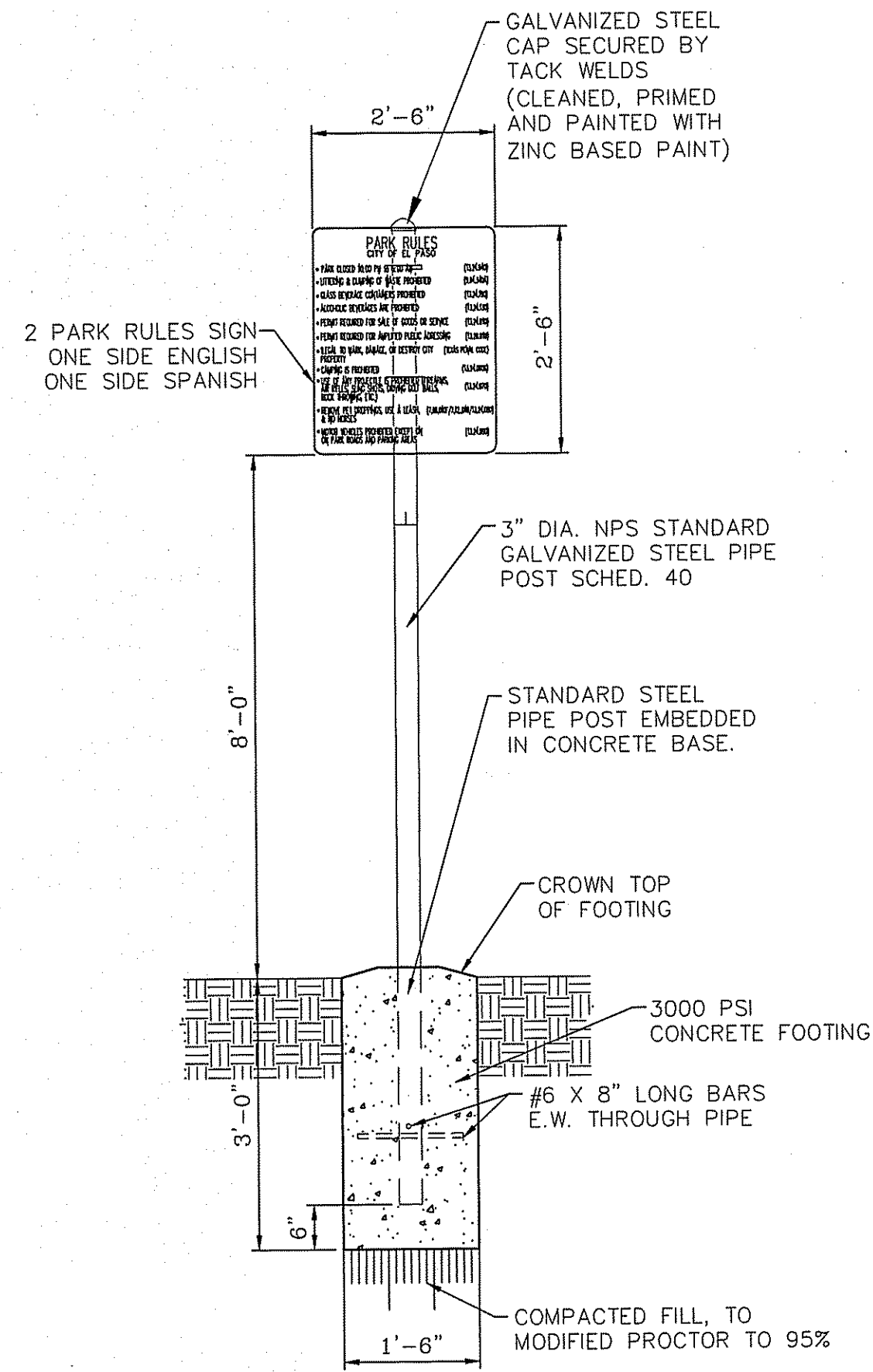


CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 692-0283
 FAX: (915) 692-0286

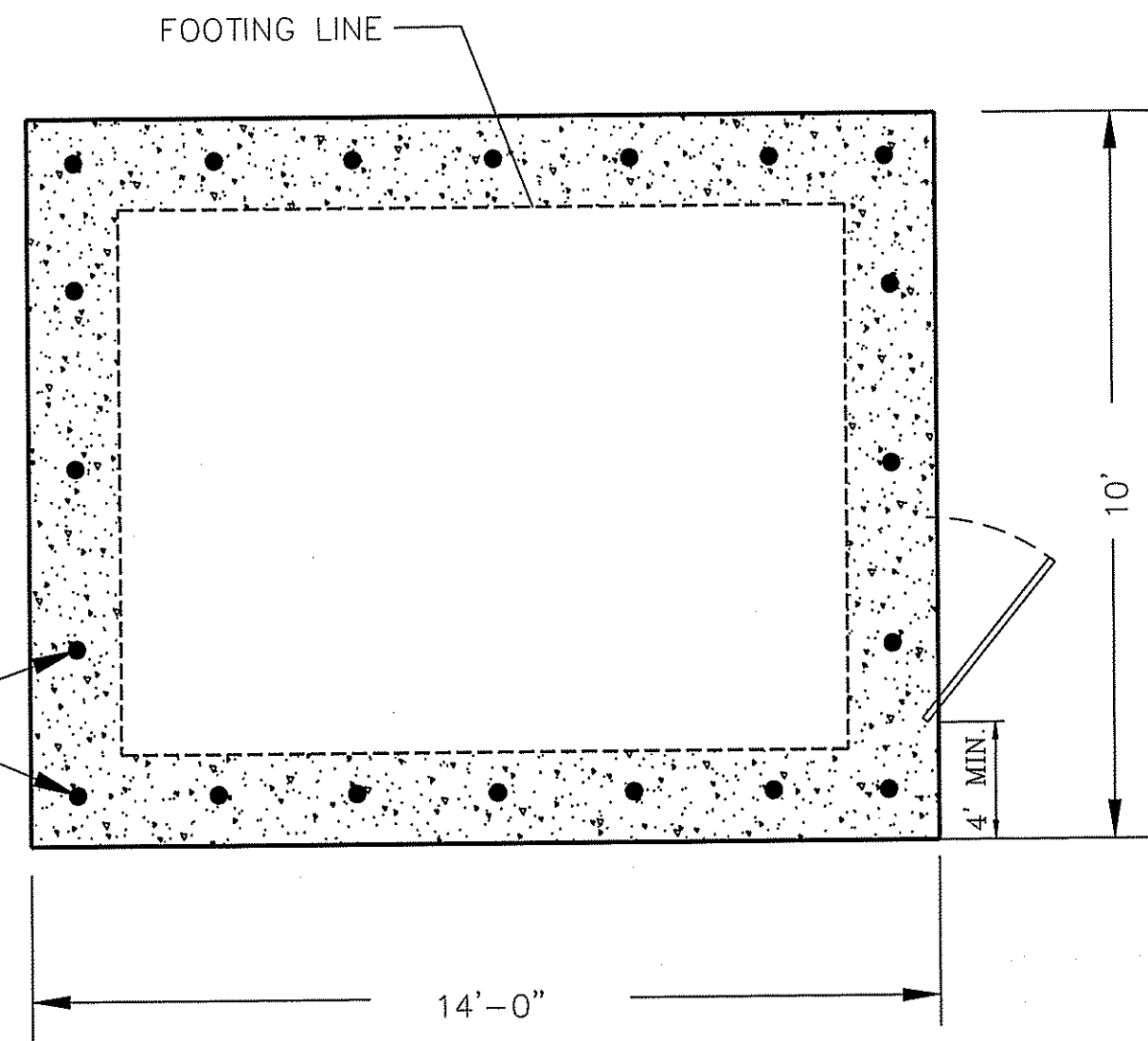
CONDE INC.
 REGISTRATION No. F-2321

SHEET TITLE
LANDSCAPE AND IRRIGATION DETAILS & NOTES

FILE LOCATION S:\LANDSCAPE\YDE 74\DWG\YDE 74 L&L DETAILS & NOTES PLOTTED ON Wednesday, September 27, 2017 5:26:11 PM BY ESTEBAN JUAREZ



PROP. J-ANCHOR BOLTS WITH MAX. SPACING OF 4'



**FOUNDATION PLAN
PLAN VIEW ELEVATION**

SCALE: 1"=3'

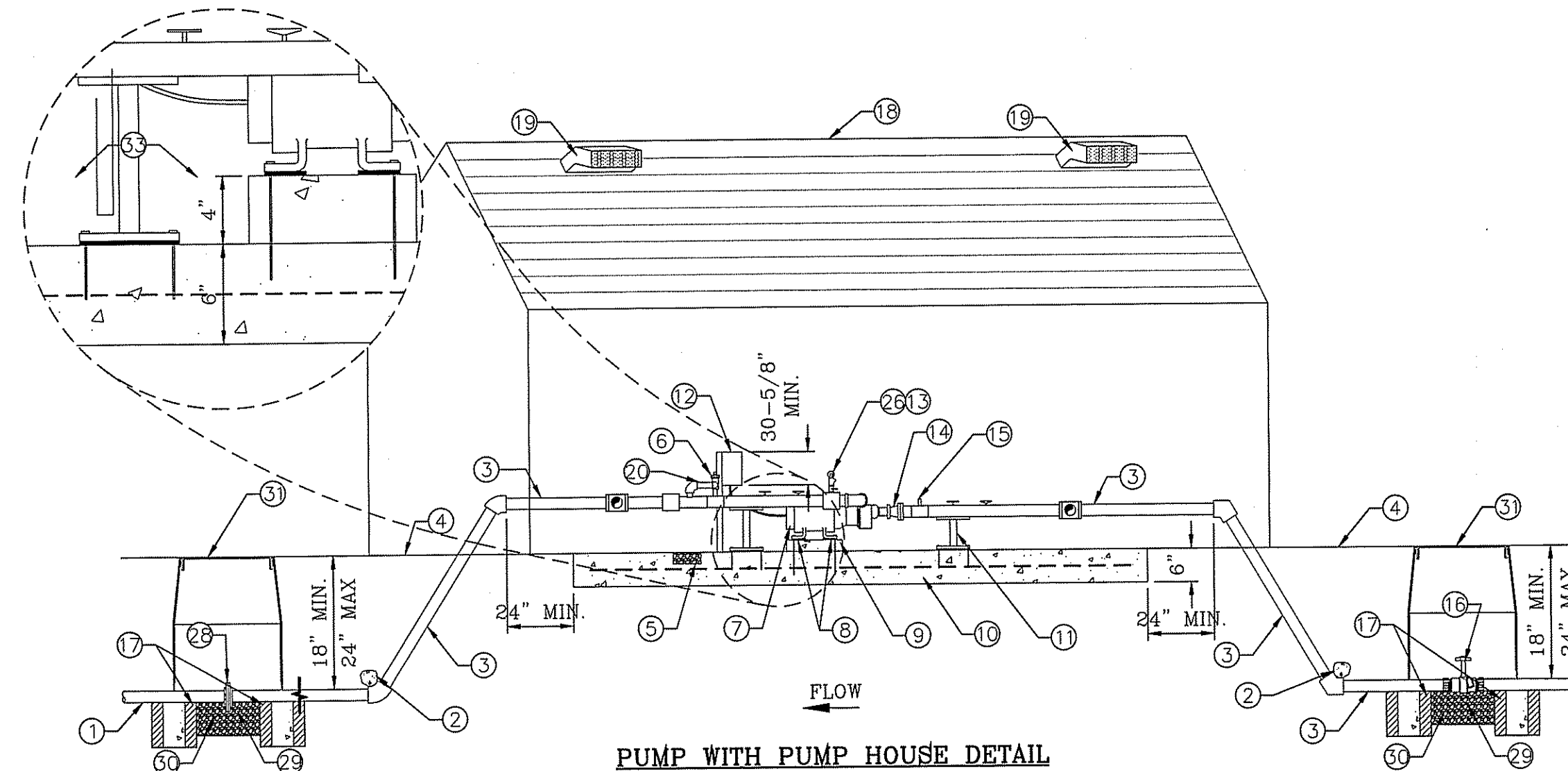
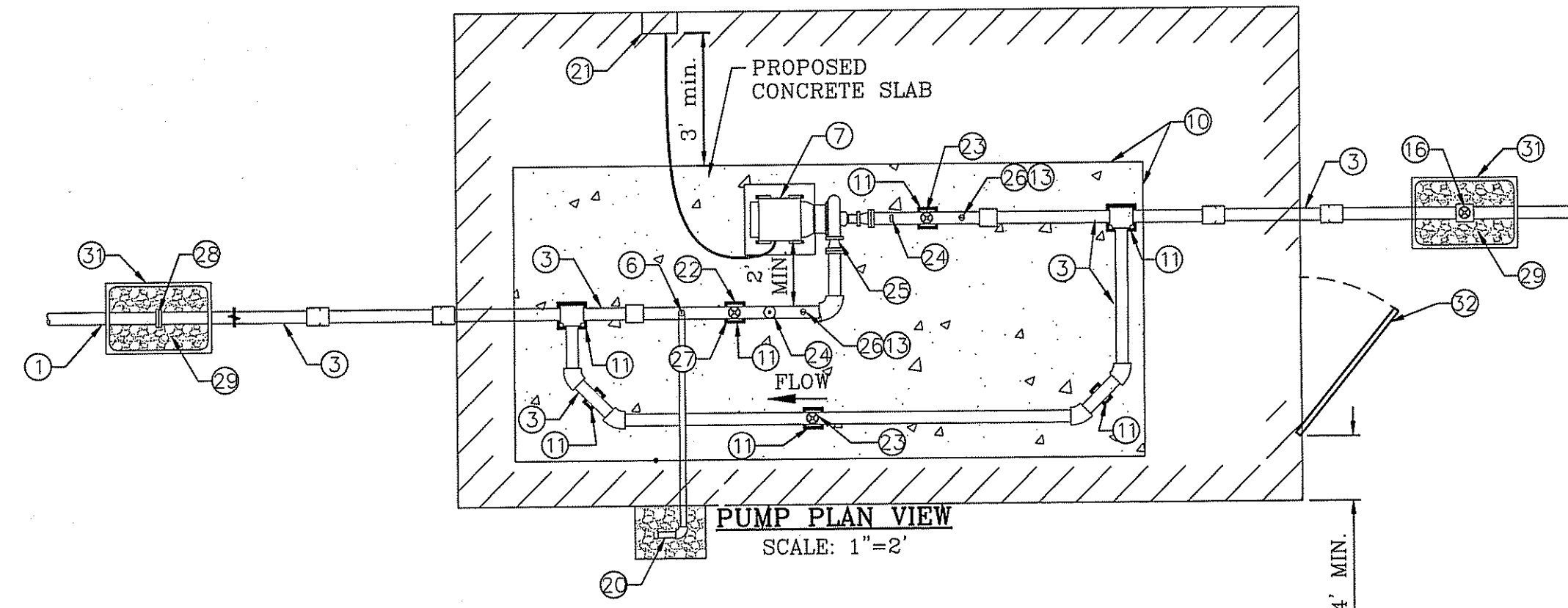
STRUCTURAL NOTES:

- 3" MIN. COVER FOR REINF. STEEL.
- FOOTING TO BE 12" MIN. IN WIDTH.
- BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED IN 8" TO 12" LIFTS AND COMPACTED TO 95% COMPACTION AS PER ASTM D1557.
- COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3,000 PSI MIN.
- YIELD STRENGTH OF REINFORCEMENT SHALL BE 60,000 PSI.
- MODULUS OF ELASTICITY OF STEEL = 29,000,000 PSI
- REINFORCEMENT SHALL CONFORM TO THE REQUIREMENT OF ASTM A615.
- ALLOWABLE TENSILE STRESS IN REINFORCEMENT = 24,000 PSI
- EQUIVALENT FLUID PRESSURE OF SOIL = 45 PCF
- ASSUME ALLOWABLE SOIL BEARING PRESSURE = 2,500 PSF MIN.

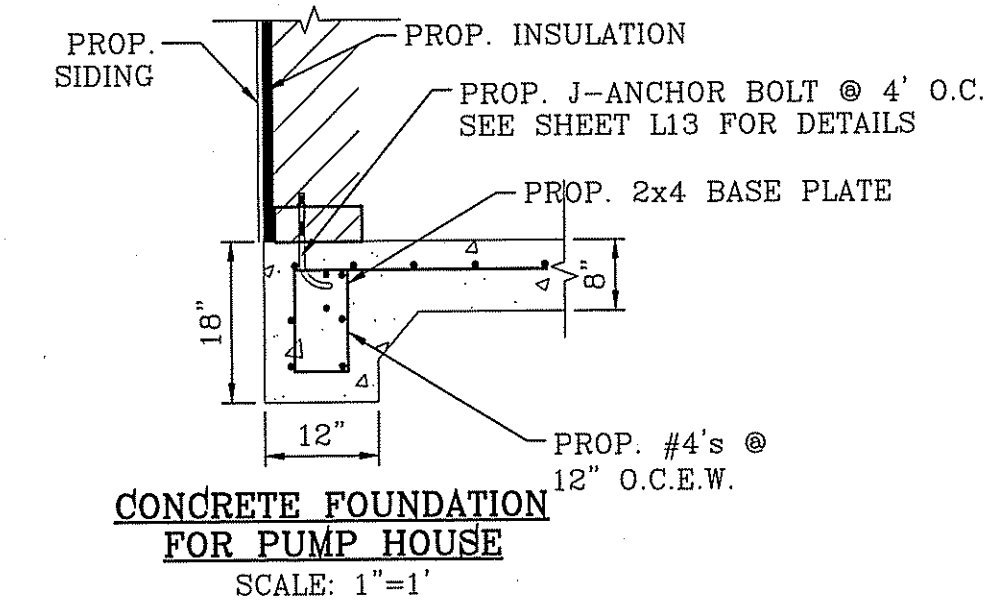
PARK RULES SIGN

- NTS
- (A) FINISH GRADE
- (B) 1419 CARSON VALVE BOX WITH LID AND BOLT. COLOR TO BE TAN FOR ROCK MULCH AREAS AND GREEN FOR TURF AREAS
- (C) IRRIGATION MAINLINE/LATERAL MAINLINE
- (D) IRRIGATION MAINLINE SERVICE TEE OR ELL
- (E) WEATHERMATIC 8200CR-20 ELECTRIC CONTROL VALVE
- (F) SCHEDULE 80 PVC UNIONS ON LINES 3" OR SMALLER, AND FLANGES ON LINES 3" OR LARGER
- (G) LATERAL LINE
- (H) 1 CUBIC FOOT 1" DIAMETER WASHED ROCK
- (I) 8"x8"x16" SOLID CMU BLOCK
- (J) PROVIDE WEED BARRIER FABRIC 'DeWITT PRO 5' UNDER AND AROUND VALVE BOX AND SEAL ALL PIPE PENETRATIONS RAINBIRD
- (K) AMIAD WYE FILTER TO BE SET AT ANGLE TO BE ABLE TO DRAIN AND BE SERVICED READILY.
- (L) WILKINS BF4 BRONZE BODY OR IN-LINE PRESSURE REGULATOR
- (M) GAUGE

NOTE:
PVC PIPE ASSEMBLIES AT IRRIGATION VALVES, PRESSURE REGULATOR AND FILTER ARE TO HAVE UNIONS ON BOTH INTAKE AND DISCHARGE SIDES OF THE EQUIPMENT WHEN THE PIPE IS SMALLER THAN THREE INCHES AND FLANGES ARE TO BE USED ON PIPE THREE INCHES AND LARGER. INSURE THAT THE EQUIPMENT AND FITTINGS ARE ACCOMMODATED WITHIN THE 1419 CARSON IRRIGATION VALVE BOX.



NOTE:
ELECTRICAL POWER CONDUIT AND PUMP CONTROL POWER TO BE INSTALLED (BURIED) AT 36" DEPTH FROM FINISH GROUND TO TOP OF PIPE. SEE CONDUIT TRENCH DETAIL



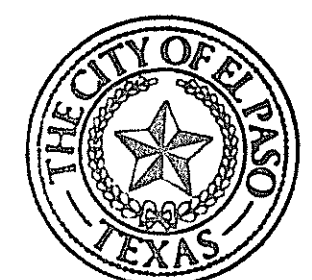
- (1) PVC MAINLINE TO VALVES, SIZE AS NOTED
- (2) THRUST BLOCK, SEE DETAIL
- (3) COPPER LINE, SIZE AS NOTED
- (4) FINISH GROUND
- (5) 3/4" GRAVEL BED, 4" THICK
- (6) 2" BERMAD PRESSURE RELIEF VALVE MODEL 730-Q
- (7) PUMP
- (8) RUBBER ISOLATORS
- (9) 4" CONCRETE SLAB ABOVE DOOR THRESHOLD.
- (10) 6" CONCRETE SLAB, 3000 PSI W/ 6X6 #WWF
- (11) STEEL SUPPORTS WITH ISOLATORS BOLTED TO CONCRETE
- (12) PUMP PANEL, FURNAS MODEL ESP100, NEMA2 460 VOLT, 3 PHASE MODEL #87FSH6F WITH VOLTAGE MONITOR AND 3 PLUG-IN RELAYS FOR EACH CONTROLLER AND STALL TIMER.
- (13) MERCOID TYPE OA PRESSURE CONTROL HIGH/LOW PRESSURE CUT-OFF SWITCH. WIRE TO PUMP PANEL.
- (14) ECCENTRIC REDUCER FLAT SIDE UP
- (15) 100LB. PRESSURE GAUGE
- (16) TEE FITTING WITH 1" BRASS BALL VALVE IN VALVE BOX TO ALLOW DRAINING OF SYSTEM ON A 3/8" PEA GRAVEL BED OVER WEED CLOTH
- (17) SOLID BRICK BLOCK AT EACH CORNER
- (18) PUMP ENCLOSURE TO BE A TUFF SHED OR EQUIVALENT BOLTED ON CONCRETE SLAB WITH R-13 INSULATED WALLS AND R-19 INSULATION ON CEILING.
- (19) METAL STATIC VENT
- (20) 2" COPPER TO DAYLIGHT OUTSIDE OF PUMP HOUSE
- (21) PUMP PANEL MOUNTED ON 3/4" CDX GRADE PLYWOOD MOUNTED ON INSULATED WALL OF PUMP HOUSE
- (22) BRASS BALL VALVE
- (23) 3" WATERMAN PCW-150 SPRING LOADED CHECK VALVE
- (24) 100lb. PRESSURE GAUGE
- (25) CONCENTRIC REDUCER
- (26) MERCOID SWITCH ON DISCHARGE SIDE OF PUMP
- (27) BRASS BALL VALVE
- (28) FLANGE
- (29) 3/8" PEA GRAVEL, 4" DEEP (NO SOIL IN BOX)
- (30) WEED CLOTH ALL AROUND BOX, PIPE AND UNDER PEA GRAVEL, TAPE TO SEAL ALL GAPS AND PENETRATIONS. USE 3M HIGH GRADE PLASTIC TAPE.
- (31) CARSON VALVE BOX, 1419 SERIES WITH EXTENSIONS AS NEEDED & BOLT DOWN FLAT LID
- (32) DOOR TOWARDS STREET
- (33) 7" LONG, 5/8" CONCRETE ANCHORS (DRILLED) WITH NUTS
- (34) 4" LONG, 5/8" CONCRETE ANCHORS (DRILLED) WITH NUTS

BENCHMARK	REVISIONS	BY
DATE		

PROJECT NAME
FOSTERING FUN LINEAR PARK
14619 CHARLES FOSTER AVE.
BEING ALL OF LOT 2, BLOCK 547, LOT 1, BLOCK 550, LOT 1, BLOCK 551 AND A PORTION OF LOT 1, BLOCK 552, TERRA DEL ESTE UNIT SEVENTY FOUR CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 3.69± ACRES

SCALED	HORIZ. AS SHOWN
VERT. --	
DATE: OCT. 2016	DESIGN BY: R.M.
INITIATED BY: E.J.	CHECKED BY: R.M.
	JOB NO.:

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



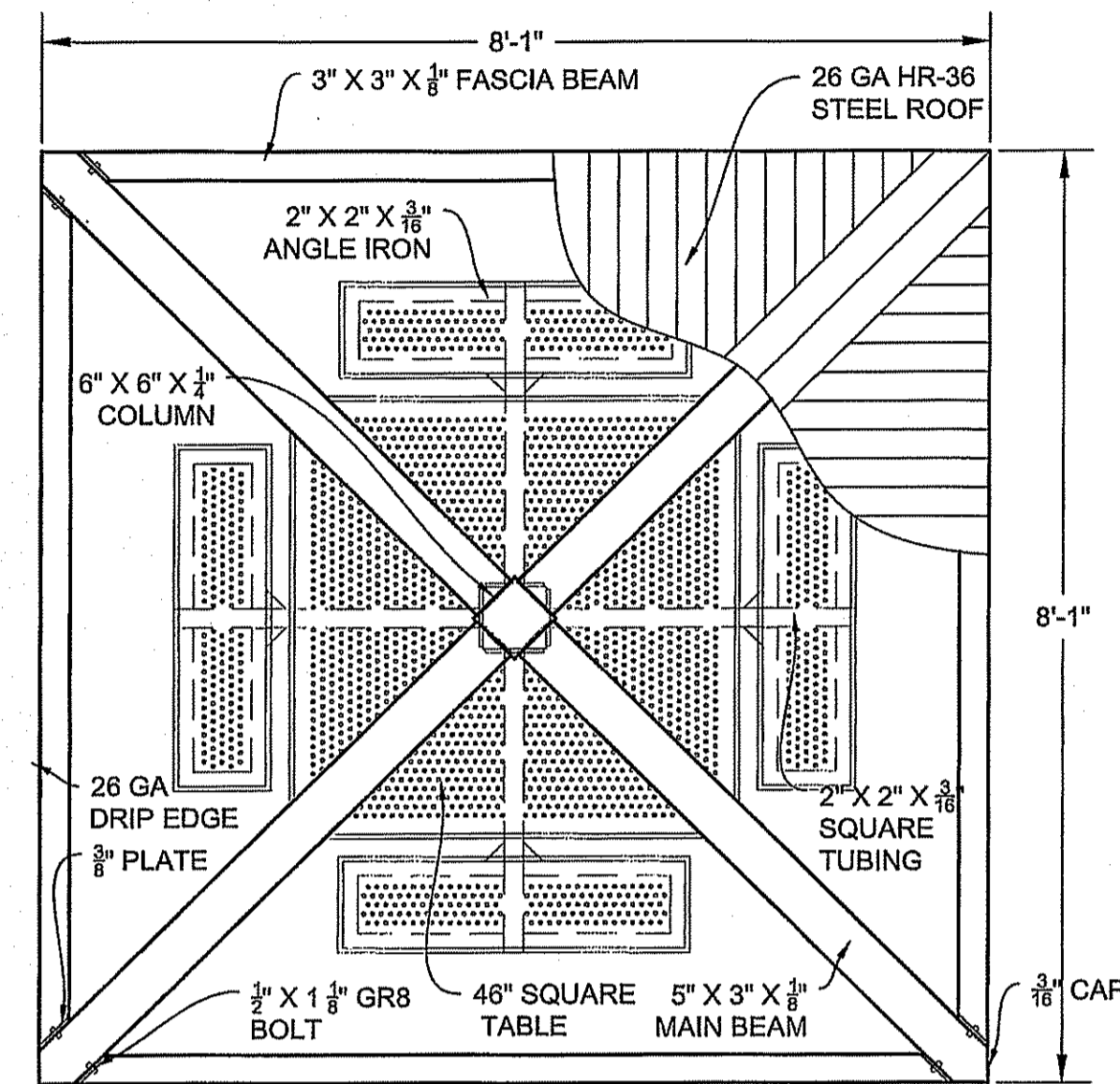
PARKS DEPARTMENT

REVIEWED BY: *Antonio Delgado* 02/01/2018

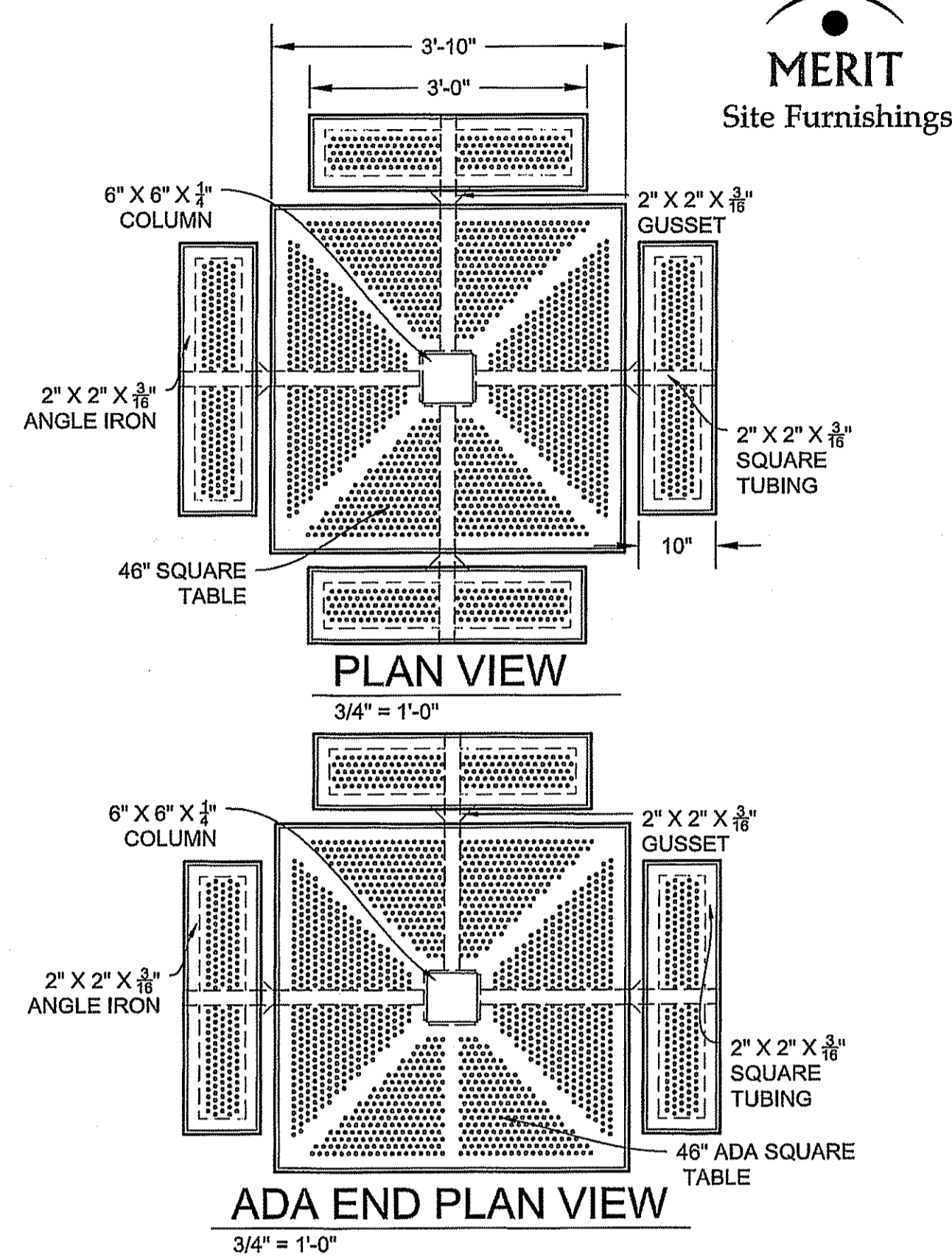


LANDSCAPE AND IRRIGATION DETAILS & NOTES

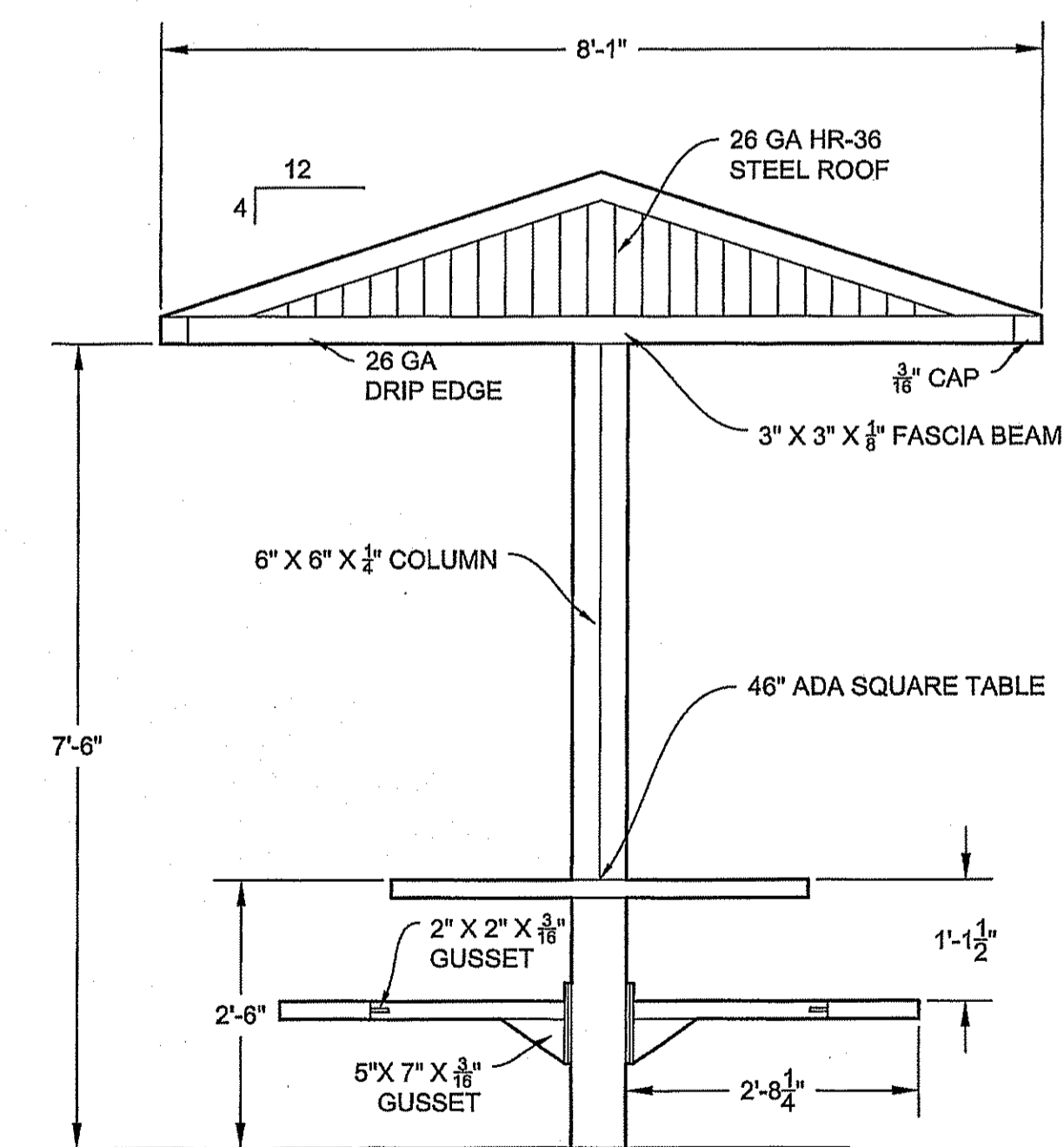
FILE LOCATION S:\LANDSCAPE\TDB 74 DWG\TDB 74 L&I DETAILS & NOTES PLOTTED ON Wednesday, September 27, 2017 5:22:49 PM BY ESTEBAN JUAREZ



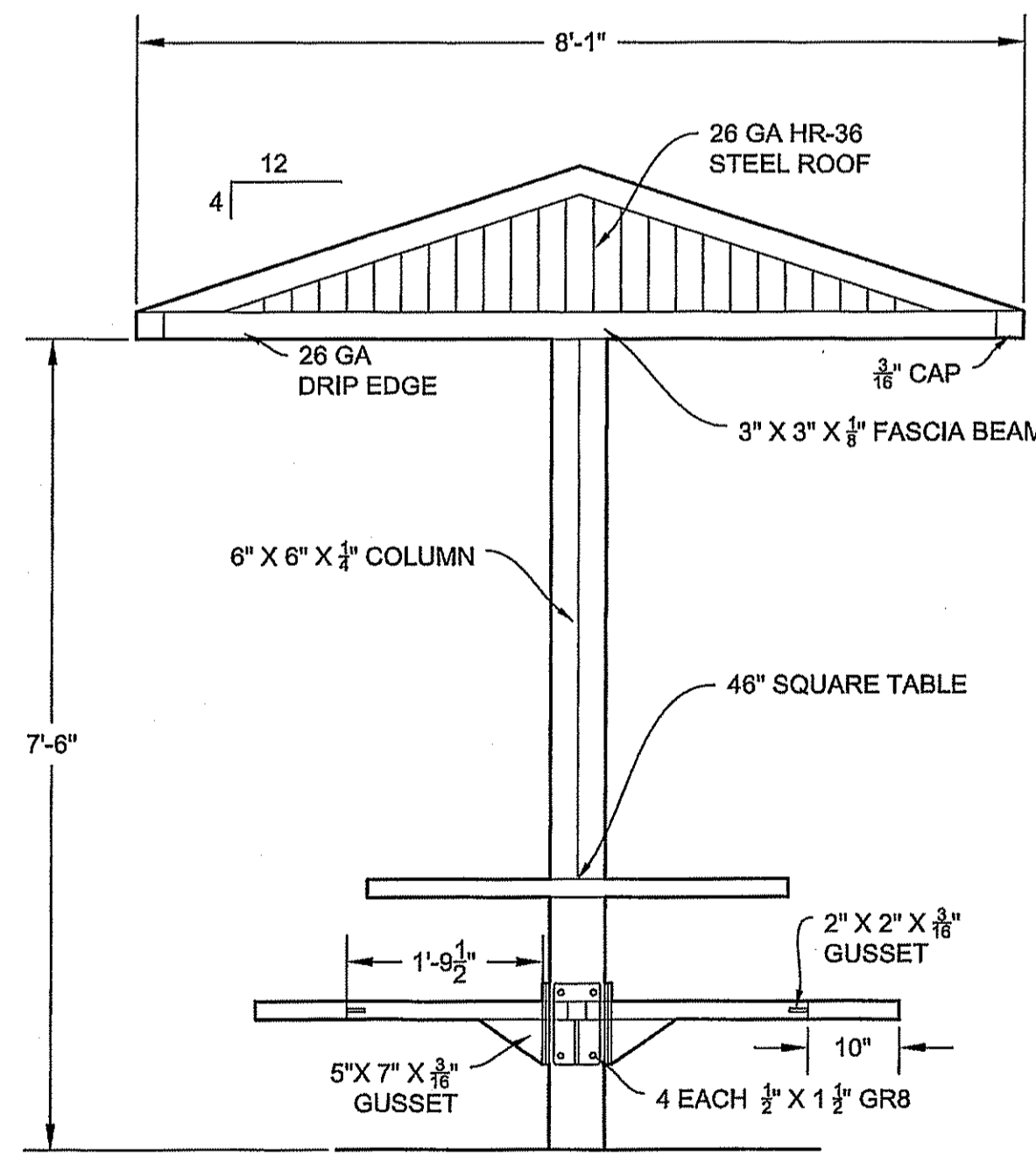
PLAN VIEW ROOF WITH TABLE AND BENCHES
3/4" = 1'-0"



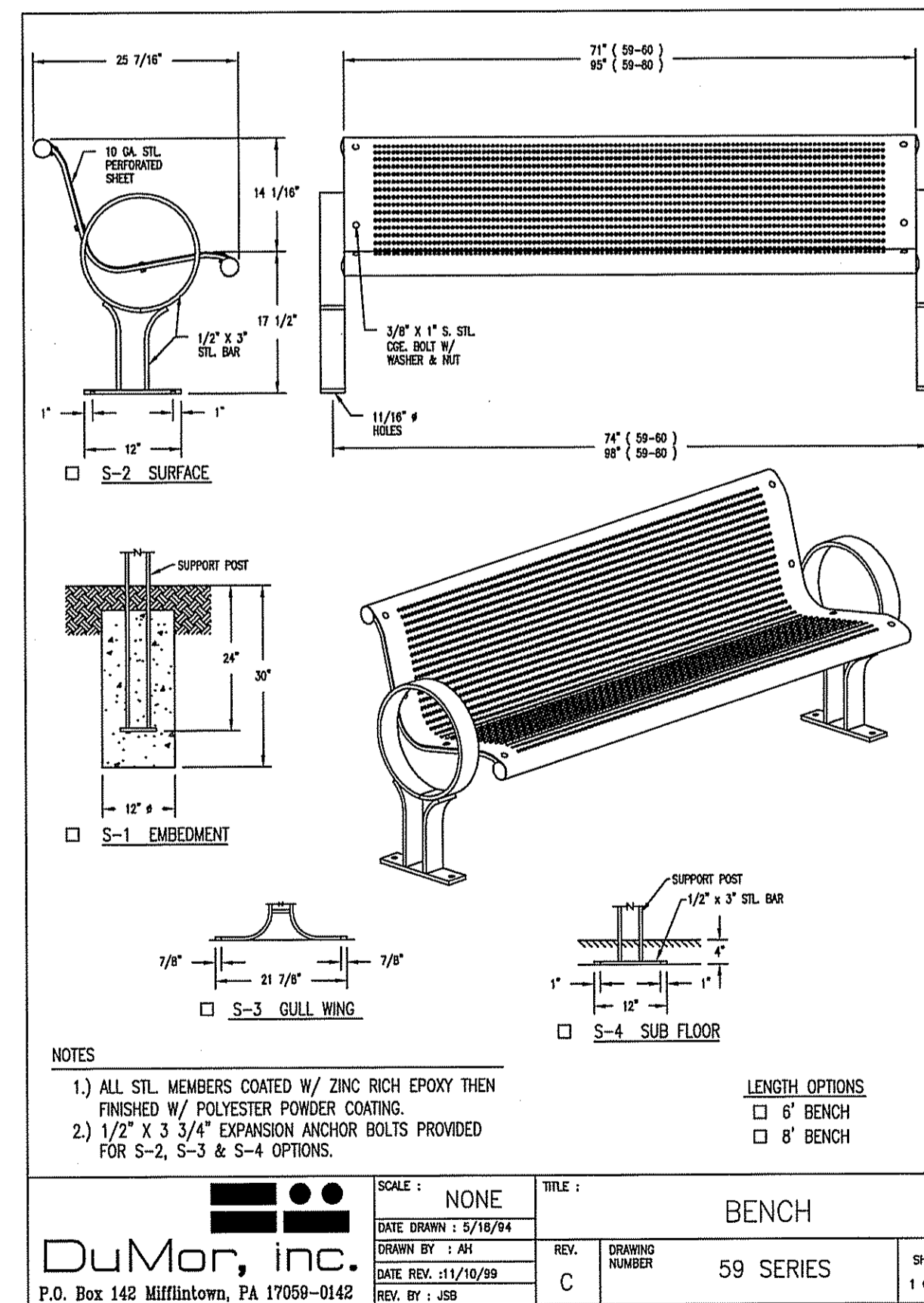
ADA END PLAN VIEW
3/4" = 1'-0"



ADA END ELEVATION
3/4" = 1'-0"



ELEVATION VIEW
3/4" = 1'-0"

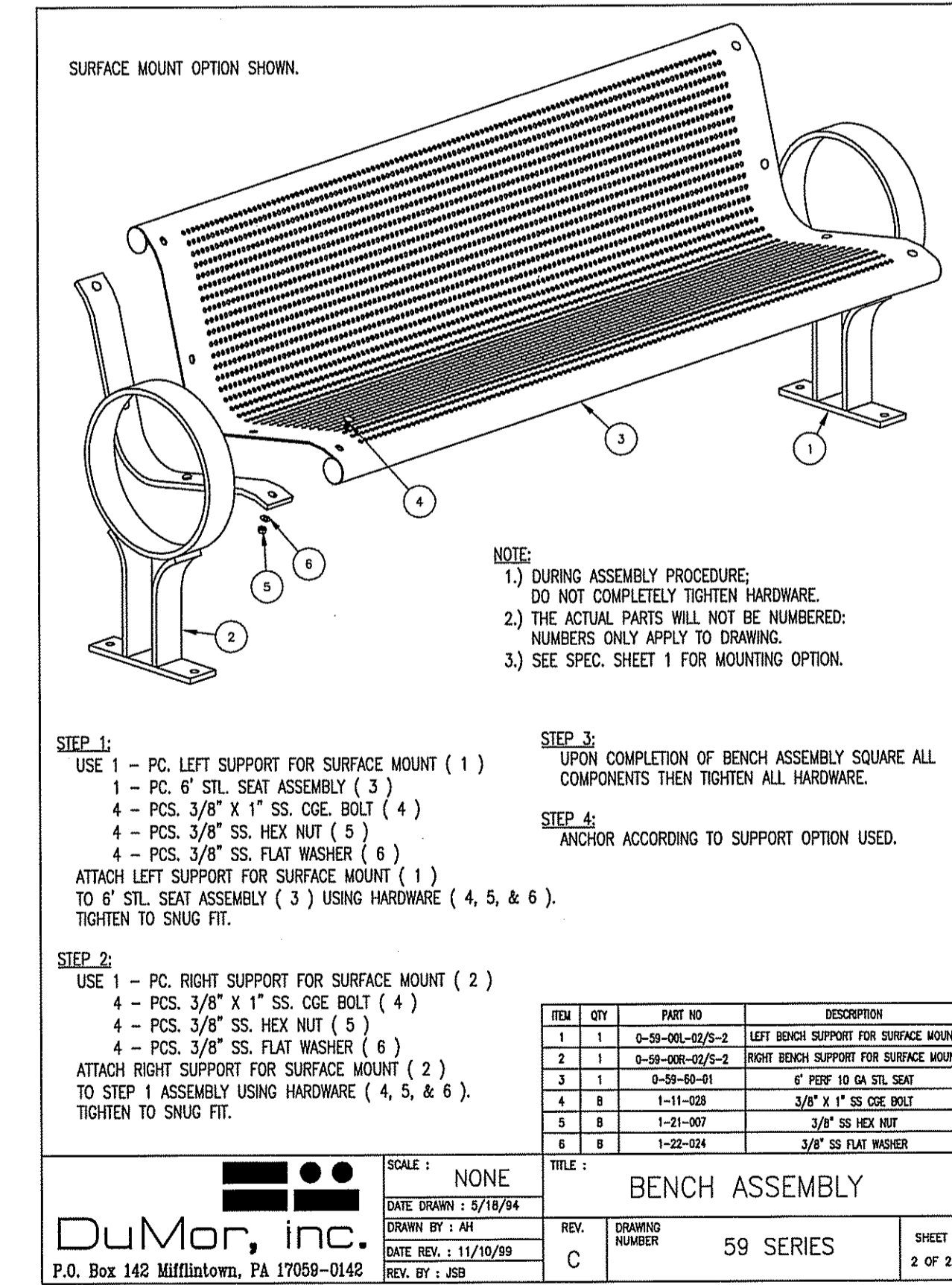


SCALE: NONE
DATE DRAWN: 5/16/14
DRAWN BY: JAH
DATE REV: 11/10/19
REV. BY: JSD

REV. C DRAWING NUMBER 59 SERIES SHEET 1 OF 2

NOTES:
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2\"/>

BERKELEY Pumps / Pentair Water - 293 Wright Street - Delwan, Wisconsin 53115
phone: (888)762-7483 fax: (800)426-9448 www.berkeleypumps.com



SCALE: NONE
DATE DRAWN: 5/16/14
DRAWN BY: JAH
DATE REV: 11/10/19
REV. BY: JSD

REV. C DRAWING NUMBER 59 SERIES SHEET 2 OF 2

NOTES:
1.) DURING ASSEMBLY PROCEDURE, DO NOT COMPLETELY TIGHTEN HARDWARE.
2.) THE ACTUAL PARTS WILL NOT BE NUMBERED; NUMBERS ONLY APPLY TO DRAWING.
3.) SEE SPEC. SHEET 1 FOR MOUNTING OPTION.

PARKS DEPARTMENT
REVIEWED BY: *Antonio...* 02/01/2018

PROJECT NAME	FOSTERING FUN LINEAR PARK
DATE	OCT. 2016
DESIGN BY	R.M.
INITIATED BY	E.J.
CHECKED BY	R.M.
JOB NO.	
IRREGATOR'S SEAL	
REVISIONS	
BY	

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-3321

LANDSCAPE AND IRRIGATION DETAILS & NOTES

FILE LOCATION S:\LANDSCAPE\TDE 74\DWG\TDE 74 L&I DETAILS & NOTES PLOTTED ON Wednesday, September 27, 2017 5:25:10 PM BY ESTEBAN JUAREZ

192455
HEALTHBEAT
CARDIO STEPPER
DESIGNED FOR AGES
13 YEARS AND OLDER

12'-6"

Freestanding Play
(13+ years)

HealthBeat
Cardio Stepper
Delano, MN

Landscape Structures

Free Standing

81012-8-1

THIS FITNESS AREA & EQUIPMENT IS DESIGNED FOR AGES 13+ YEARS

THIS CONCEPTUAL PLAN WAS BASED ON INFORMATION AVAILABLE TO US FROM THE MANUFACTURER, SUPPLIER AND OTHER SOURCES. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS.

THE EQUIPMENT SHOWN IS TO BE CONSIDERED FITNESS EQUIPMENT ONLY. APPROPRIATE SURFACE, INCLUDING THIS IS SHOWN. IT IS ALSO RECOMMENDED THAT FITNESS EQUIPMENT BE LOCATED AWAY FROM PLAY EQUIPMENT TO DISCOURAGE PLAY.

DESIGNED BY:

COPYRIGHT: 5/17/16
LANDSCAPE STRUCTURES, INC.
801 INDEPENDENCE, #10, DELANO, MN 55018
PH: 1-800-322-2619 FAX: 1-763-972-8881

No.	Revision/Date	Date

Freestanding Play
(13+ years)

236"

192453
HEALTHBEAT
PARALLEL BARS
DESIGNED FOR AGES
13 YEARS AND OLDER

170 5/8"

TOTAL SQUARE FOOTAGE
261 SQ.FT.

THE MAXIMUM FALL HEIGHT
OF THIS STRUCTURE IS 46"

HealthBeat
Parallel Bars

Landscape Structures

SYSTEM TYPE:
HealthBeat

DRAWING #:
81012-17-1

THIS FITNESS AREA & EQUIPMENT IS DESIGNED FOR AGES 13+ YEARS

THIS CONCEPTUAL PLAN WAS BASED ON INFORMATION AVAILABLE TO US FROM THE MANUFACTURER, SUPPLIER AND OTHER SOURCES. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS.

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PH: 1-800-322-2619 FAX: 1-763-972-8881

No.	Revision/Date	Date

Freestanding Play
(13+ years)

273 7/8"

192458
HEALTHBEAT
MOBILITY
DESIGNED FOR AGES
13 YEARS AND OLDER

130"

TOTAL SQUARE FOOTAGE
255 SQ.FT.

THE MAXIMUM FALL HEIGHT
OF THIS STRUCTURE IS 22"

HealthBeat
Mobility

Landscape Structures

SYSTEM TYPE:
HealthBeat

DRAWING #:
81012-11-1

THIS FITNESS AREA & EQUIPMENT IS DESIGNED FOR AGES 13+ YEARS

THIS CONCEPTUAL PLAN WAS BASED ON INFORMATION AVAILABLE TO US FROM THE MANUFACTURER, SUPPLIER AND OTHER SOURCES. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS.

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DESIGNED BY:

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801 INDEPENDENCE, #10, DELANO, MN 55018
PH: 1-800-322-2619 FAX: 1-763-972-8881

No.	Revision/Date	Date

Freestanding Play
(13+ years)

10"

192463
HEALTHBEAT
TAI CHI WHEELS
DESIGNED FOR AGES
13 YEARS AND OLDER

Freestanding Play
(13+ years)

PARKS DEPARTMENT

REVIEWED BY: *Antonio del...* 02/01/2018

HealthBeat
Tai Chi Wheels

Landscape Structures

Free Standing

81012-16-1

THIS FITNESS AREA & EQUIPMENT IS DESIGNED FOR AGES 13+ YEARS

THIS CONCEPTUAL PLAN WAS BASED ON INFORMATION AVAILABLE TO US FROM THE MANUFACTURER, SUPPLIER AND OTHER SOURCES. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS. WE HAVE CONDUCTED VISUAL CHECKS OF THE EQUIPMENT AND DRAWINGS.

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DESIGNED BY:

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LANDSCAPE STRUCTURES, INC.
801 INDEPENDENCE, #10, DELANO, MN 55018
PH: 1-800-322-2619 FAX: 1-763-972-8881

No.	Revision/Date	Date

BENCHMARK	PROJECT NAME	S C A L E	IRRIGATOR'S SEAL	CONDE INC.
REVISIONS	FOSTERING FUN LINEAR PARK 14619 CHARLES FOSTER AVE. BING ALL OF LOT 2, BLOCK 547, LOT 1, BLOCK 550, LOT 1, BLOCK 551 AND A PORTION OF LOT 1, FOUR TIERRA DEL ESTE UNIT SEVENTY FOUR CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 3.59± ACRES	HORIZ: AS SHOWN		ENGINEERING / PLANNING SURVEYING / GPS 6080 SURETY DR. STE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286
DATE	DATE	VERT: ---	CONDE INC. REGISTRATION No. F-2321	SHEET TITLE LANDSCAPE AND IRRIGATION DETAILS & NOTES
BY	DATE	DATE		SHT L12 OF L12