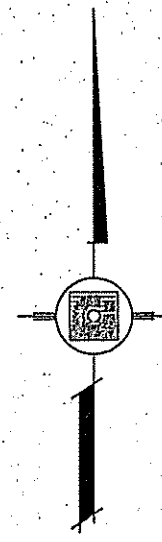
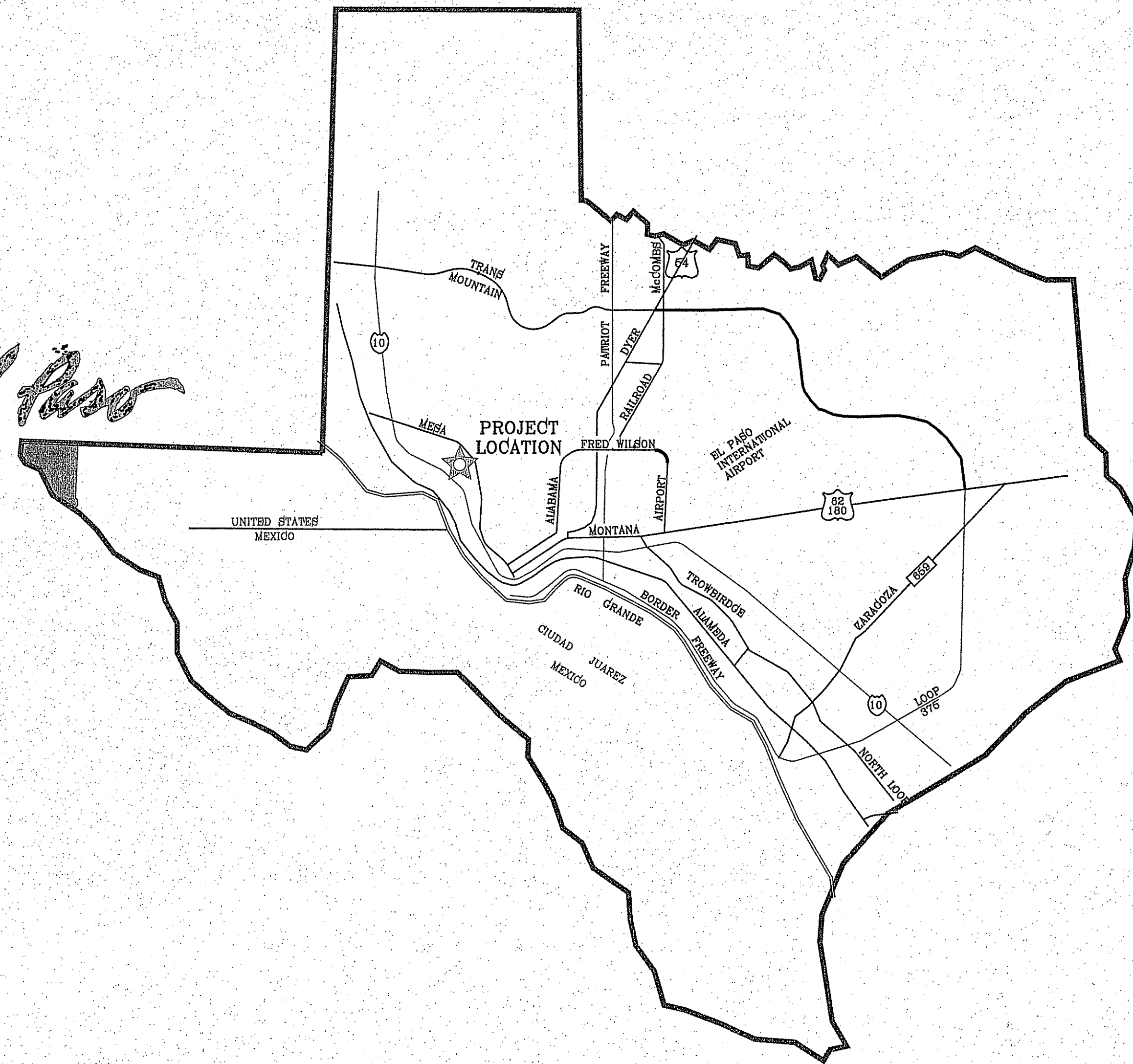
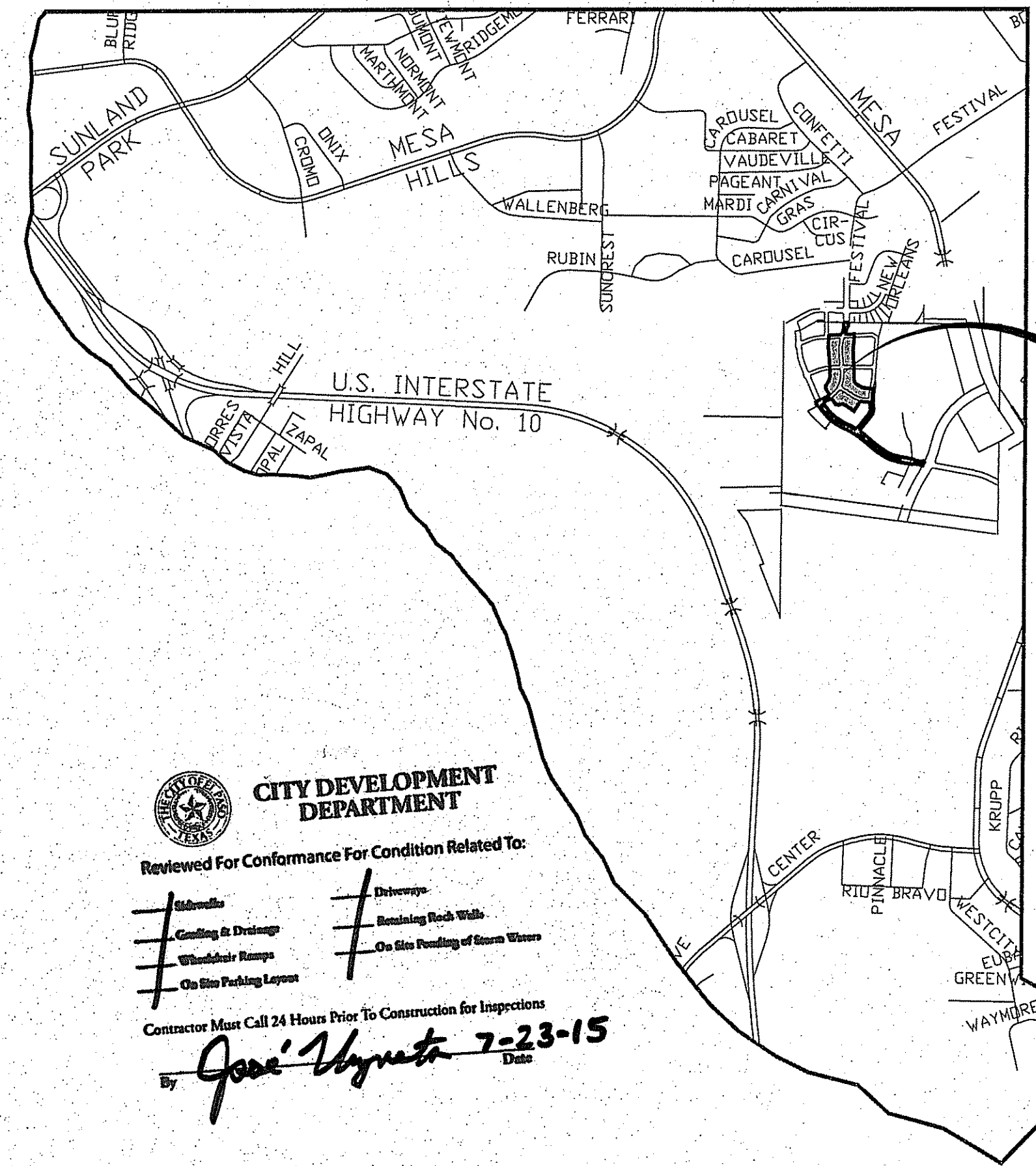


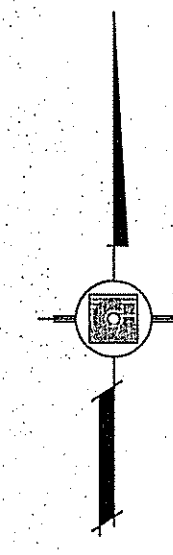
El Paso



VICINITY MAP

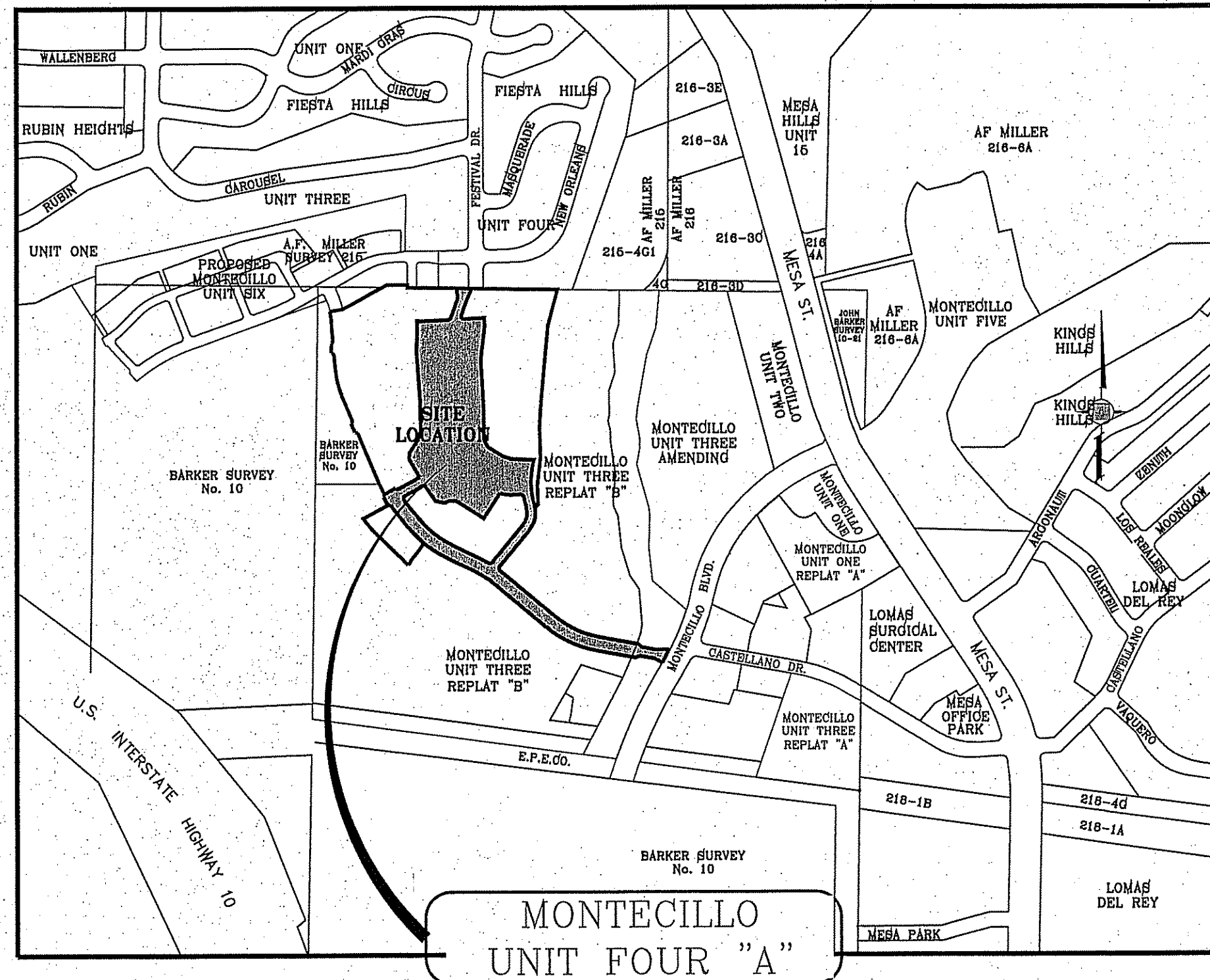


MONTECILLO UNIT FOUR "A" PROJECT LOCATION



CITY DEVELOPMENT DEPARTMENT
 Reviewed For Conformance For Condition Related To:
 # Submittals # Drawings
 # Existing In Drawings # Retaining Rock Walls
 # Unfinished Streets # On Site Ponding of Storm Waters
 # On Site Parking Layout
 Contractor Must Call 24 Hours Prior To Construction for Inspections
 By *Jose Vizcarra* Date **7-23-15**

LOCATION MAP 1"=600'



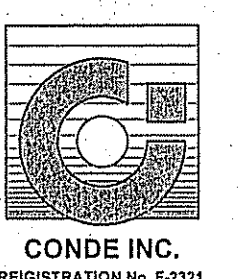
STREET IMPROVEMENTS

I N D E X

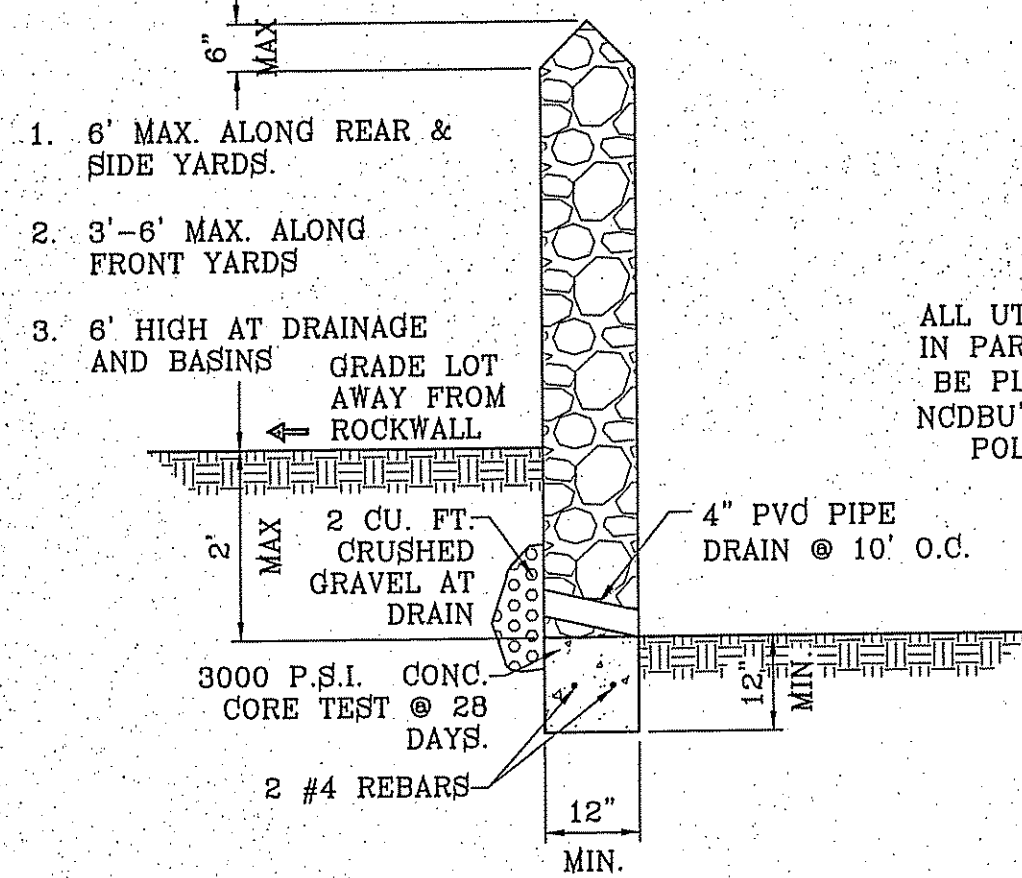
| TITLE | SHEET No. | TITLE | SHEET No. |
|-------------------------------|-------------|----------------------------------|---------------|
| COVER SHEET | 1 OF 41 | ALLEY F | 21 OF 41 |
| PLAT | 2 OF 41 | ALLEY G | 22 OF 41 |
| GRADING | 3 OF 41 | BRIDGE DETAILS & SECTIONS | 23-24 OF 41 |
| GRADING SECTIONS | 4-5 OF 41 | BRIDGE STRUCTURES | \$1.00-\$3.10 |
| DRAINAGE | 6 OF 41 | STRUCTURE PROFILE | 25 OF 41 |
| S.W.P.P. AND STANDARD DETAILS | 7-8 OF 41 | STRUCTURE DETAILS | 26-28 OF 41 |
| CASTELLANO DR. | 9-11 OF 41 | ILLUMINATION AND TRAFFIC CONTROL | 29 OF 41 |
| FESTIVAL DR. | 12-13 OF 41 | STANDARD DETAILS | 30-31 OF 41 |
| VIN ETIENNE DR. | 14-15 OF 41 | WATER DISTRIBUTION | 32 OF 41 |
| VIN MARBELLA DR. | 16 OF 41 | SEWER DISTRIBUTION | 33 OF 41 |
| VIN ZAMORA LN. | 17 OF 41 | SEWER PROFILES | 34-36 OF 41 |
| ALLEY A-B | 18 OF 41 | WATER & SEWER NOTES-DETAILS | 37-41 OF 41 |
| ALLEY C-D | 19 OF 41 | LANDSCAPE & IRRIGATION PLAN | L1.0 - L8.0 |
| ALLEY E | 20 OF 41 | ILLUMINATION ELECTRICAL PLANS | E-1 - E-5 |
| | | ILLUMINATION STUDY PLANS | ST-1-ST-3 |

PROJECT NAME
MONTECILLO UNIT FOUR "A"
 BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2,
 MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1,
 JOHN BARKER SURVEY 100,
 JOHN BARKER COUNTY, TEXAS
 CONTAINING: 10.068± ACRES

CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905



CONDE INC.
 REGISTRATION No. F-3221



ROCKWALL DETAIL
SCALE: 1"=2'

ROCKWALL NOTES:

- STONE FOR ROCKWALLS SHALL BE AS NEARLY UNIFORM IN SECTIONS AS IS PRACTICABLE. THE STONE SHALL BE DENSE AND RESISTANT OF AIR AND WATER.
- MORTAR MUST BE TYPE "S" 1800 P.S.I. AS PER ASTM C270.
- MASONRY WALLS OVER SIX (6) FEET IN HEIGHT AND THOSE USED FOR EARTH RETENTION OVER TWO (2) FEET MUST BE DESIGNED AS STRUCTURAL WALLS.
- 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.
- ROCKWALL MORTAR JOINTS MUST NOT EXCEED TWO (2) INCHES.
- PROVIDE ONE (1) INCH EXPANSION JOINTS AT EVERY 100 FEET.
- ALL STONE SHALL BE THOROUGHLY SOAKED BEFORE BEING PLACED.
- NO RIVER ROCK SHALL BE ALLOWED.

CONSTRUCTION ACTIVITY REQUIREMENTS:

- 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 PERMIT SHALL BE ALLOWED.
- 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.
- 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.
- WHERE A DRAINAGE WAY WILL BE CROSSED BY CONSTRUCTION VEHICLES REGULARLY DURING CONSTRUCTION, A TEMPORARY CROSSING SHALL BE CONSTRUCTED.
- 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.

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.

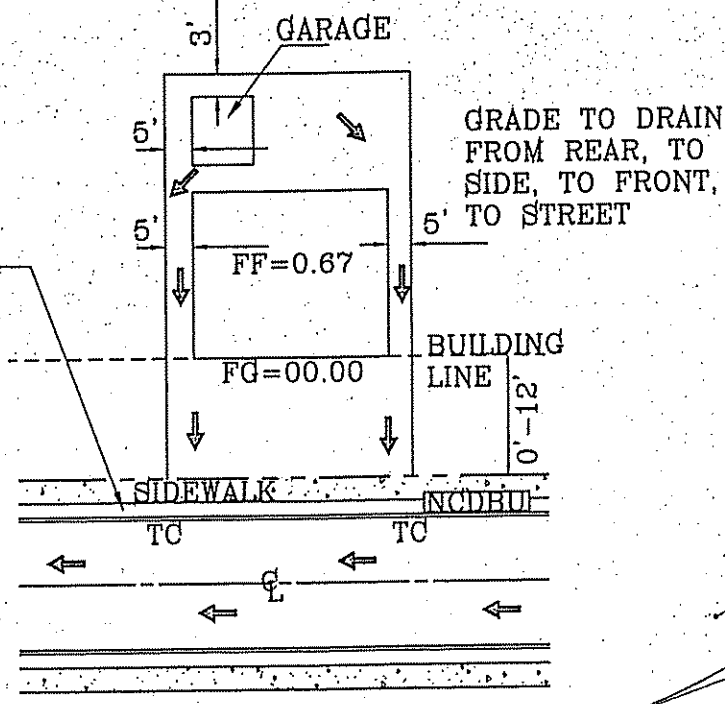
THE CITY WILL ISSUE A LETTER STATING GENERAL CONFORMANCE TO THE PERMITS BEING MET AND THAT THE WARRANTY PERIOD REQUIREMENTS WILL CONTINUE TO BE IN EFFECT.

18.44.080 - 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.

GENERAL NOTES:

- IMPROVEMENT WITHIN CITY R.O.W. SHALL COMPLY WITH TITLE 19-SUBDIVISION ORDINANCE - "SUBDIVISION IMPROVEMENT DESIGN STANDARDS".
- 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.
- 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.
- 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.
- EQUIPMENT OF A CONDITION AND DESIGN SUFFICIENT TO ENSURE A THOROUGH AND WORKMANLIKE PROSECUTION OF THE PROJECT SHALL BE USED AT ALL TIMES.
- ALL ELEVATIONS ARE TO CITY DATUM UNLESS OTHERWISE NOTED.
- ALL WASTE MATERIALS INCLUDING EXCAVATION, CURBING, PAVEMENT, ETC. SHALL BE DISPOSED OF AS DESIGNATED BY THE OWNER OR HIS REPRESENTATIVE.
- 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.
- SAFE AND REASONABLE ACCESS FOR THIS SITE MUST BE MAINTAINED AT ALL TIMES DURING THE LIFE OF THE PROJECT.
- ANY CAVITY REMAINING OPEN DURING NONWORKING HOURS MUST BE GUARDED BY FLASHER TYPE BARRICADES WITH STRINGERS PLACED BETWEEN THE TOPS OF THE BARRICADES.
- DEVELOPER SHALL COMPLY WITH SECTION 13.08.170 "EXCESSIVE PAVING CUTS" AS PER EL PASO MUNICIPAL CODE.



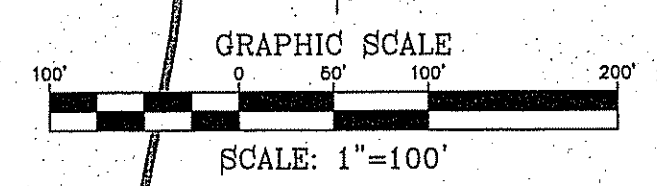
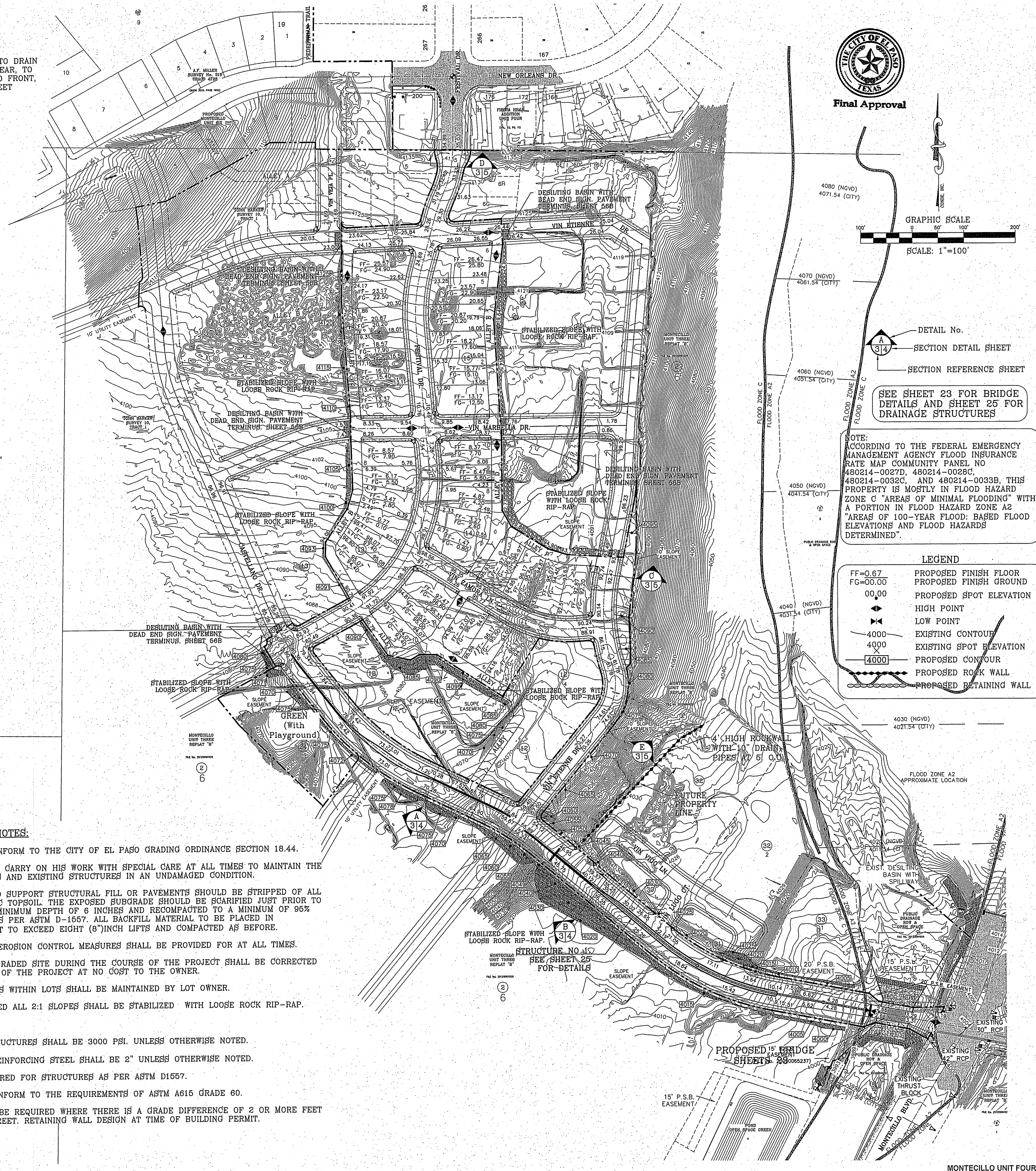
TYPICAL LOT GRADING
SCALE: 1"=40'

GENERAL EARTHWORK NOTES:

- ALL GRADING SHALL CONFORM TO THE CITY OF EL PASO GRADING ORDINANCE SECTION 18.44.
- 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.
- 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.
- TEMPORARY DUST AND EROSION CONTROL MEASURES SHALL BE PROVIDED FOR AT ALL TIMES.
- 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.
- ALL SLOPES AND SWALES WITHIN LOTS SHALL BE MAINTAINED BY LOT OWNER.
- UNLESS OTHERWISE NOTED ALL 2:1 SLOPES SHALL BE STABILIZED WITH LOOSE ROCK RIP-RAP.

CONSTRUCTION NOTES:

- ALL CONCRETE FOR STRUCTURES SHALL BE 3000 PSI. UNLESS OTHERWISE NOTED.
- MINIMUM COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.
- 96% COMPACTION REQUIRED FOR STRUCTURES AS PER ASTM D1557.
- REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
- 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.



DETAIL No. 314
SECTION DETAIL SHEET
SECTION REFERENCE SHEET

SEE SHEET 23 FOR BRIDGE DETAILS AND SHEET 25 FOR DRAINAGE STRUCTURES

NOTE: ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 480214-0027D, 480214-0028C, 480214-0032C, AND 480214-0033B, THIS PROPERTY IS MOSTLY IN FLOOD HAZARD ZONE C "AREAS OF MINIMAL FLOODING" WITH A PORTION IN FLOOD HAZARD ZONE A2 "AREAS OF 100-YEAR FLOOD. BASED FLOOD ELEVATIONS AND FLOOD HAZARDS DETERMINED".

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 | PROPOSED CONTOUR |
| ▬ | PROPOSED ROCK WALL |
| ▬ | PROPOSED RETAINING WALL |

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
FERRIS DR. AND NEW ORLEANS DR.
ELEVATION: 4137.61 (CITY DATUM)

| | | |
|------------|------------------------------------|------|
| DATE | REVISIONS | BY |
| 8-5-2014 | CITY REDS ST. NAME CHANGE - MISC. | R.O. |
| 8-29-2014 | CITY REDS --- ADDED THURST BLOCK | R.O. |
| 10-13-2014 | UPDATED TYPICAL LOT GRADING DETAIL | R.O. |
| 4-28-2015 | NEW STREET SECTIONS | R.O. |

PROJECT NAME
MONTECILLO UNIT FOUR "A"
BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2,
MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1,
JOHN BARKER SURVEY 10,
EL PASO COUNTY, TEXAS
CONTAINING: 10.6662 ACRES

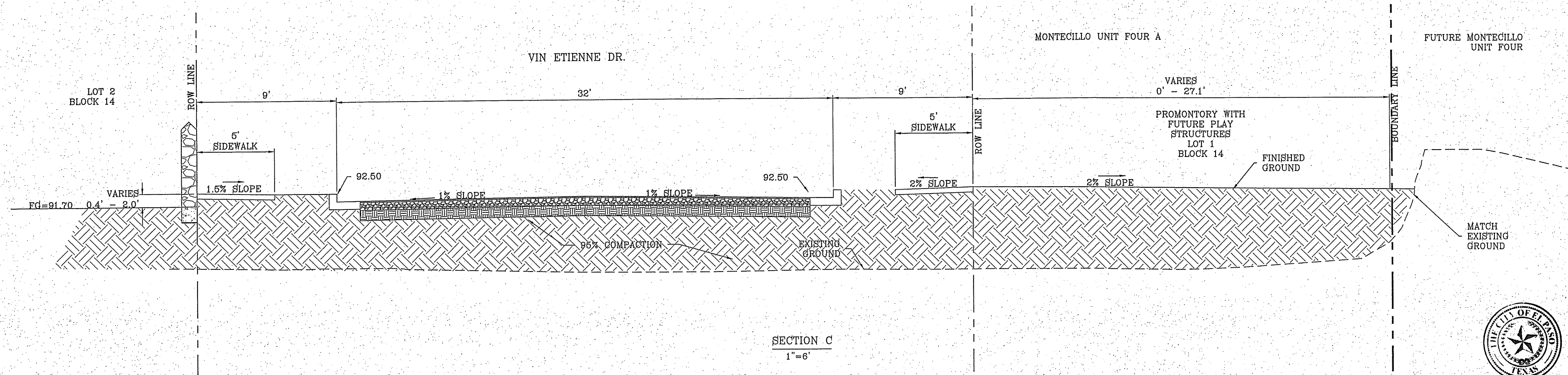
SCALE
HORIZ: 1"=100'
VERT: ---

DATE: NOV. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 315-45

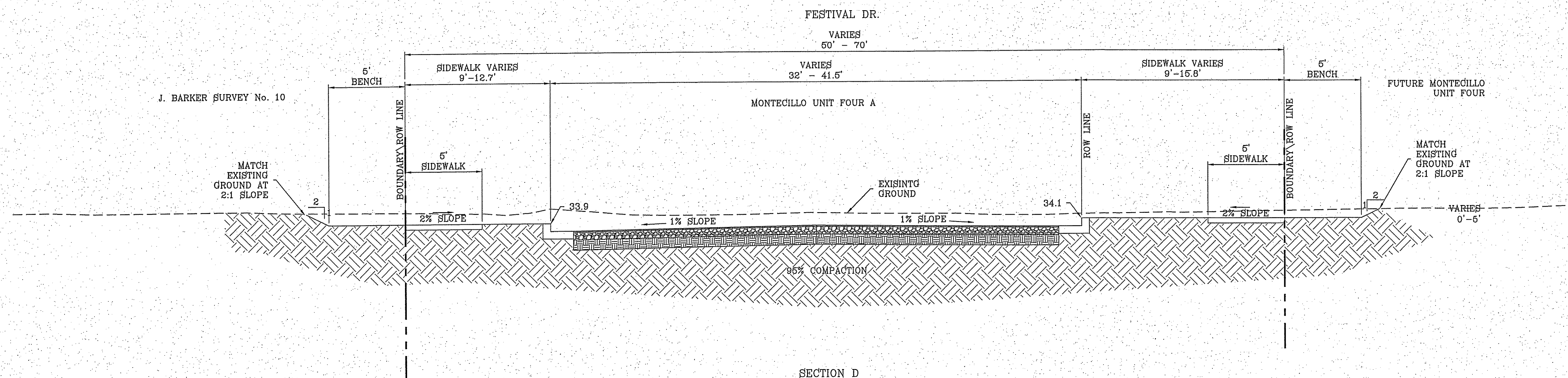
ENGINEER'S SEAL
STATE OF TEXAS
CIVIL ENGINEER
64648
CONDE INC.

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

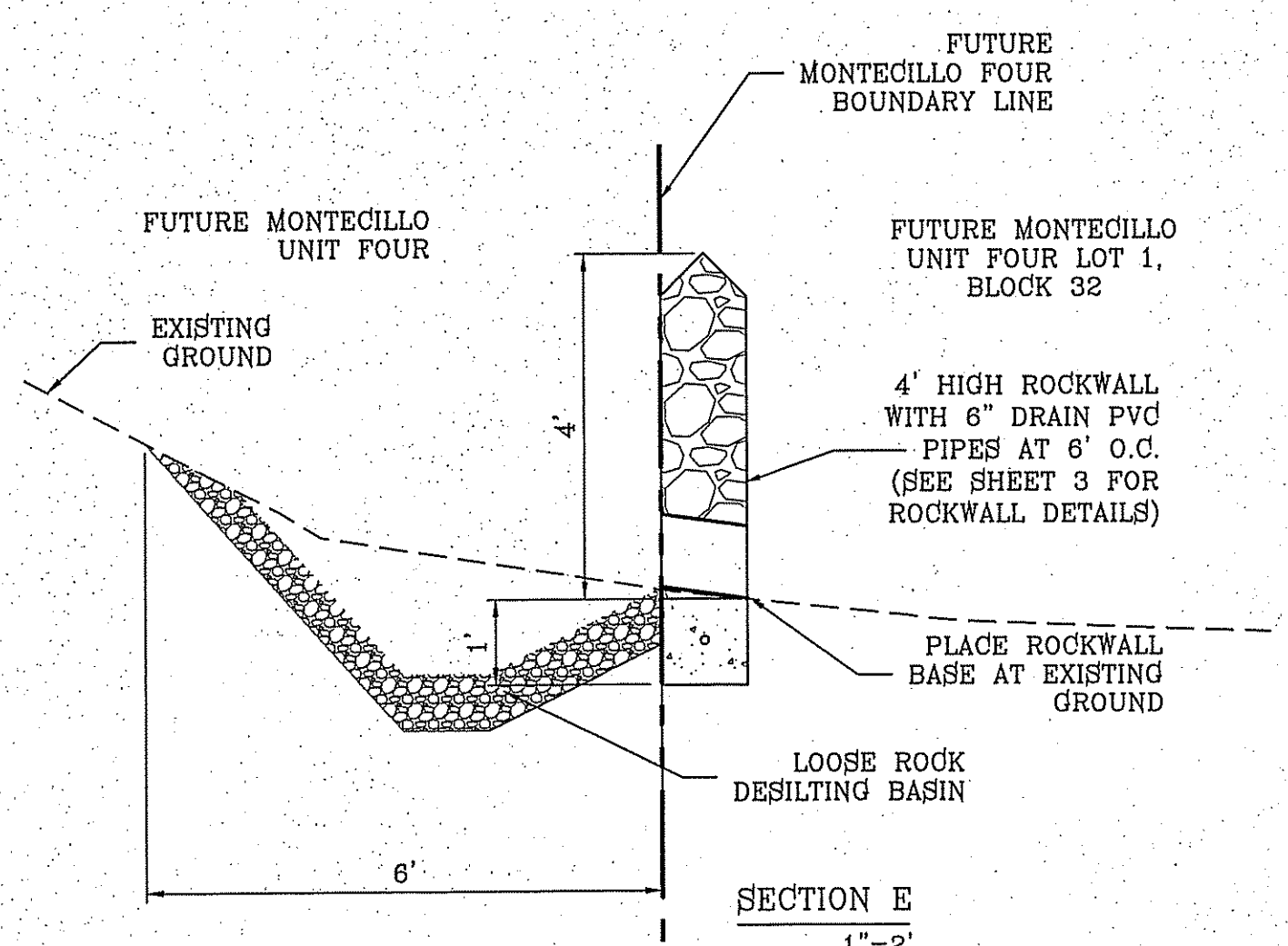
CONDE INC.
REGISTRATION NO. F-2321
SHEET TITLE
GRADING PLAN
SHT 3 OF 41



SECTION C
1"=6'



SECTION D
1"=6'



SECTION E
1"=2'

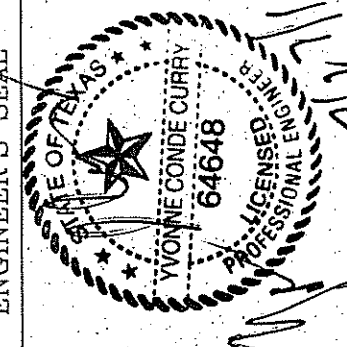
NOTE:
UNLESS OTHERWISE NOTED
ALL 2:1 SLOPES SHALL BE
STABILIZED WITH LOOSE ROCK
RIP-RAP.



| | | |
|-----------|--|------|
| BENCHMARK | CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW RELEASE DR. ELEVATION: 4137.61 (CITY DATUM) | |
| REVISIONS | BY | |
| 8-5-2014 | CITY REDS - REVISE SECTIONS | R.O. |
| 9-29-2014 | CITY REDS - ADDED SECTION E | R.O. |
| 4-28-2015 | NEW STREET SECTIONS | R.O. |

MONTECILLO UNIT FOUR "A"
 BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1, JOHN BARKER SURVEY 10, MONTECILLO UNIT FOUR, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 10.0662 ACRES

| | |
|--------------|-----------------|
| SCALES | HORIZ: as shown |
| DATE | NOV. 2013 |
| DESIGN BY | Y.C. |
| INITIATED BY | F.O. |
| CHECKED BY | Y.C. |
| JOB NO. | 315-46 |

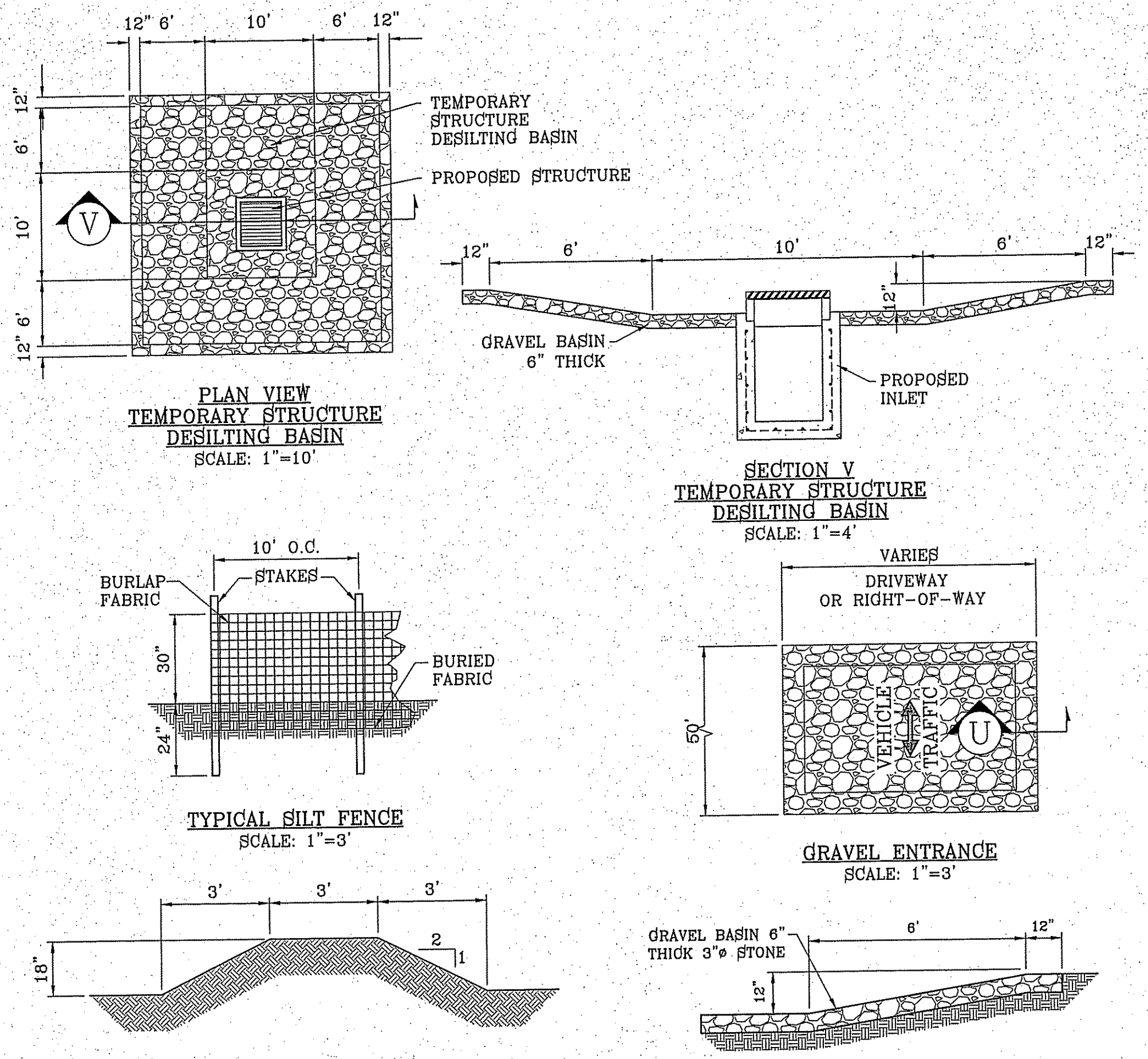


CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6000 SUTTERY DR. SUITE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0285
 FAX: (915) 592-0286

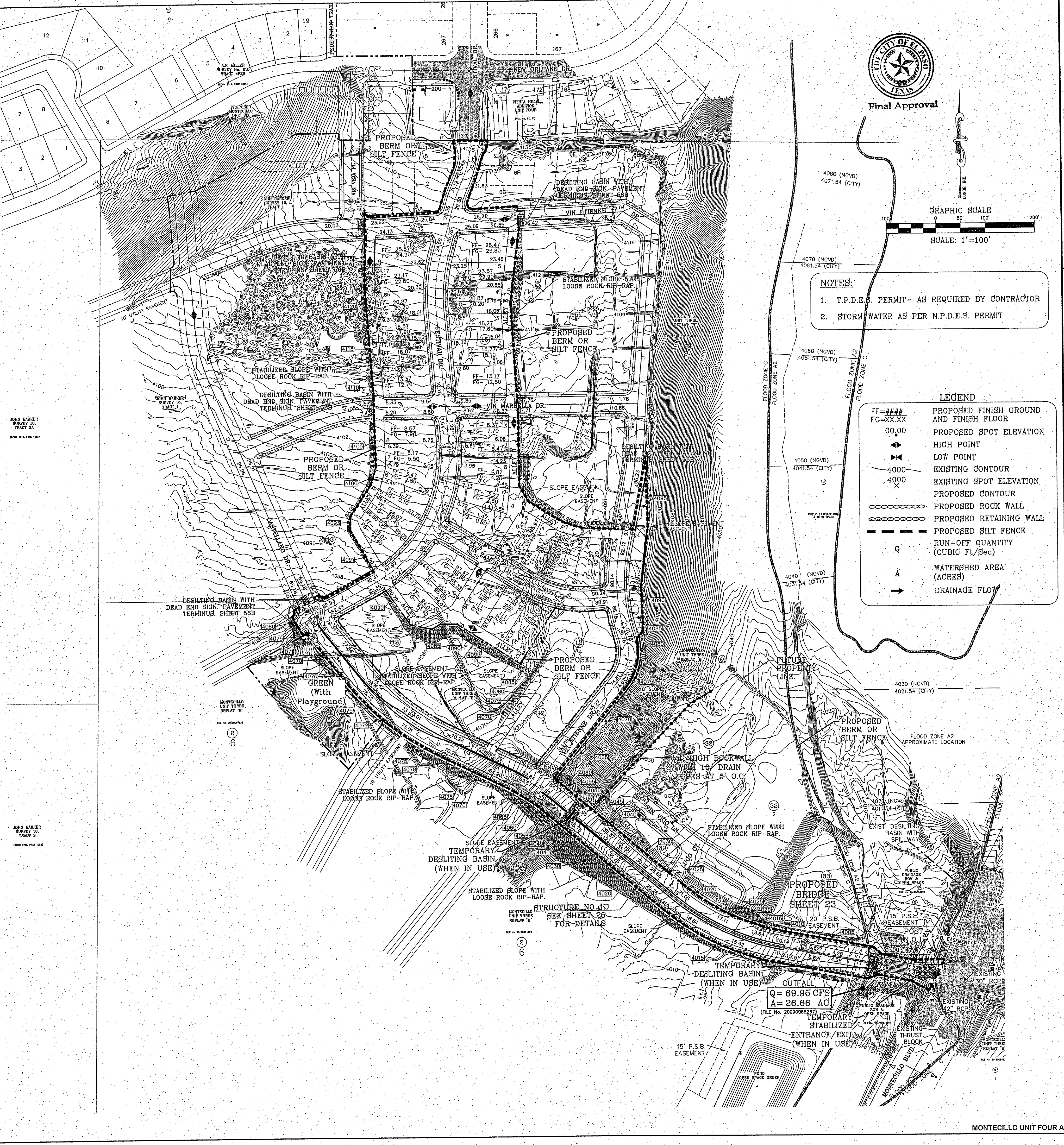
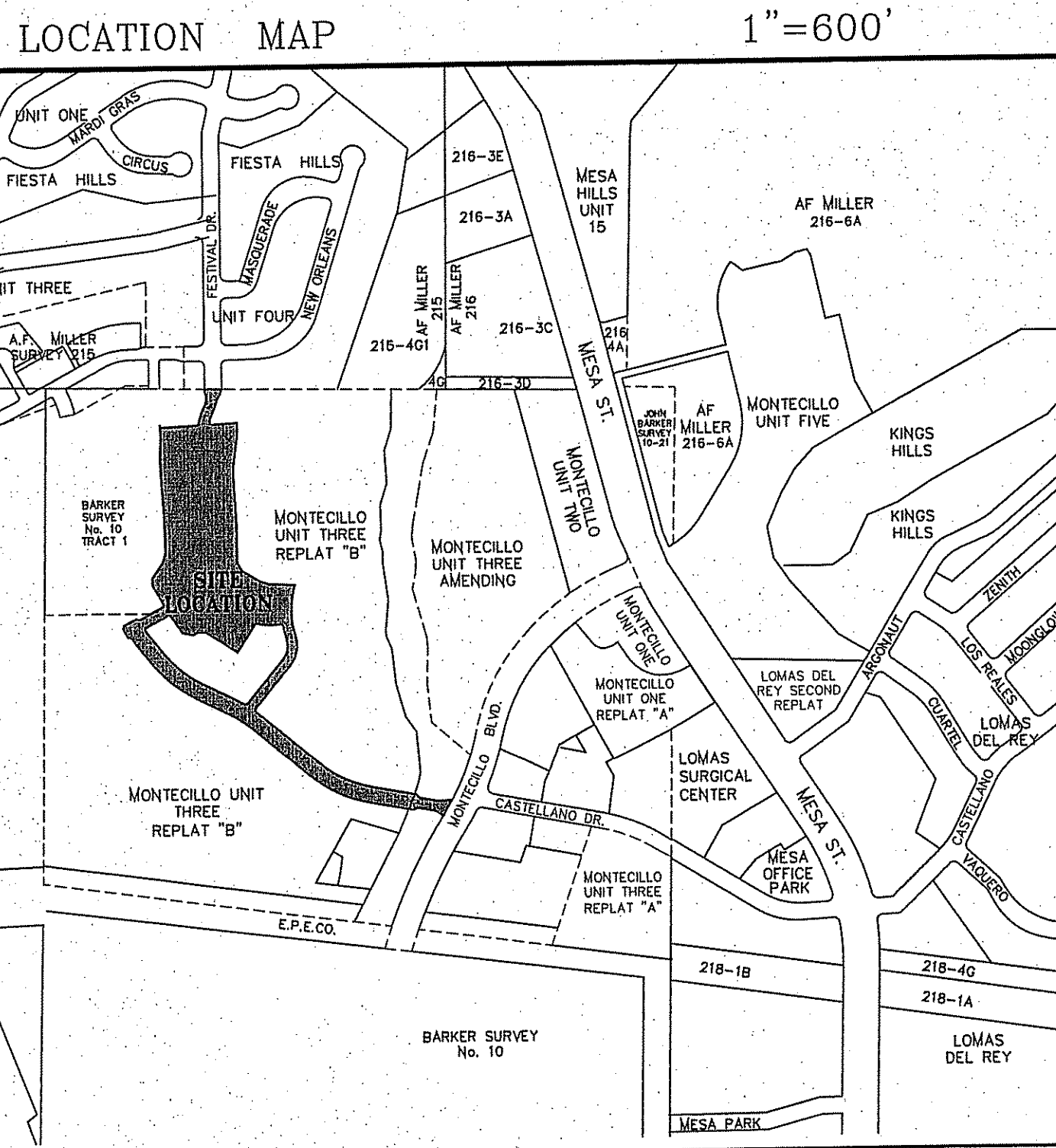


SHEET TITLE
GRADING SECTIONS

S:\3000\MONTECILLO UNIT A\MONTECILLO SECTIONS\415 S.ECT. 510015.25231.PLT



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



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

LEGEND

| | |
|----------|---|
| FF=#### | PROPOSED FINISH GROUND AND FINISH FLOOR |
| FG=XX.XX | PROPOSED SPOT ELEVATION |
| 00.00 | PROPOSED SPOT ELEVATION |
| ▲ | HIGH POINT |
| ◆ | LOW POINT |
| 4000 | EXISTING CONTOUR |
| 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 |

BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR.
ELEVATION: 4137.81 (CITY DATUM)

| | |
|-----------|-------------------------------------|
| DATE | REVISIONS |
| 8-5-2014 | CITY REDS - ST. NAME CHANGE - MISC. |
| 9-29-2014 | CITY REDS - ADDED THURST BLOCK |
| 4-28-2015 | NEW STREET SECTIONS |

PROJECT NAME
MONTECILLO UNIT FOUR "A"

BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B" AND PORTION OF TRACT 1, LOTS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 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999, 1000.

ENGINEER'S SEAL

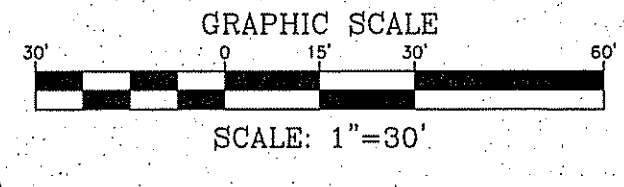
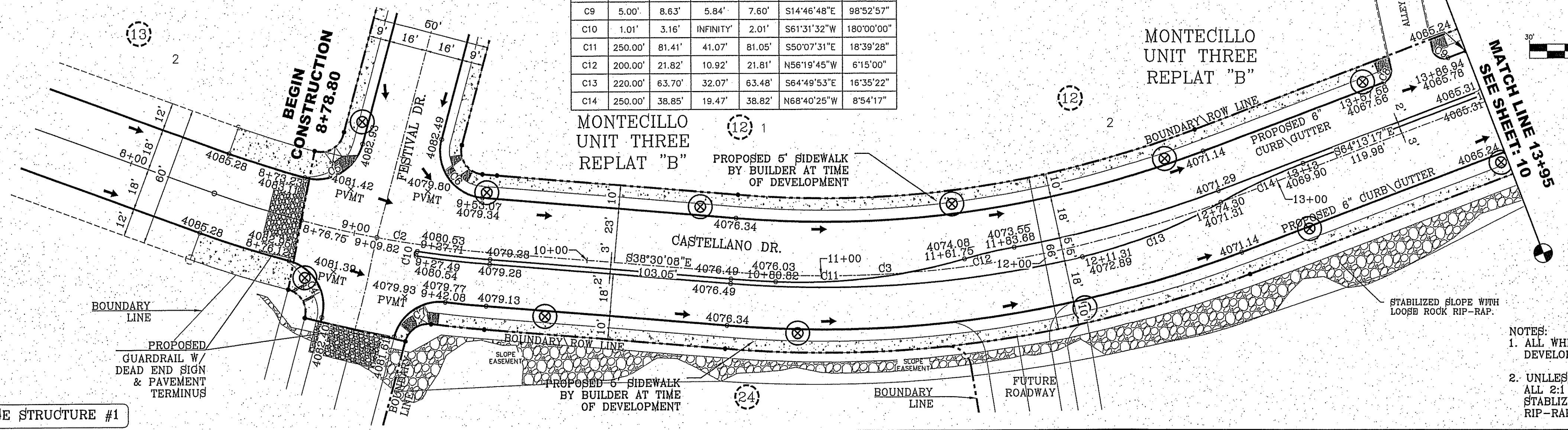
CONDE INC. ENGINEERING / PLANNING / SURVEYING / GPS
6080 SURVEY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

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

GRADING STABILIZATION AND STORMWATER POLLUTION PREVENTION PLAN

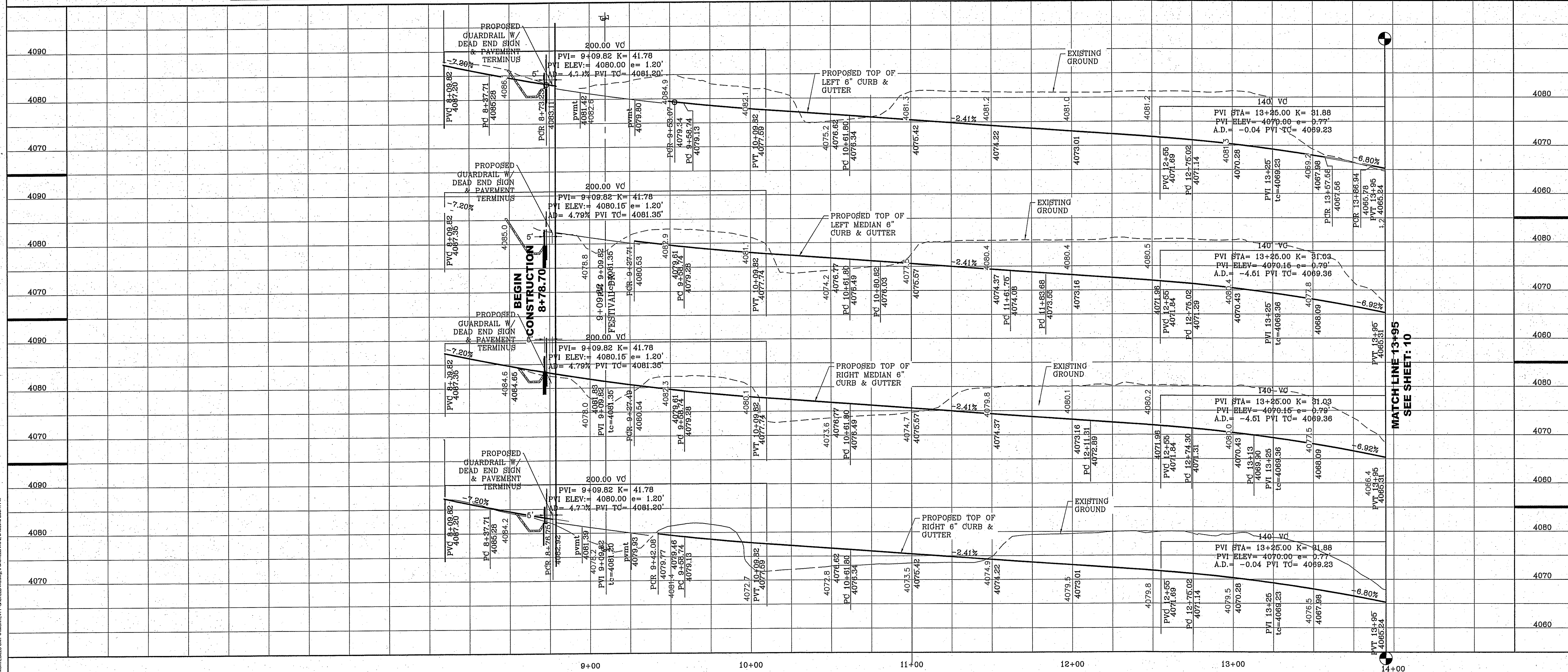
SHT 7 OF 41

| CURVE | RADIUS | LENGTH | TANGENT | CHORD | BEARING | DELTA |
|-------|---------|---------|----------|---------|-------------|------------|
| C1 | 450.00' | 33.07' | 16.54' | 33.07' | S30°10'03"E | 41°2'39" |
| C2 | 450.00' | 48.92' | 24.49' | 48.90' | S35°23'16"E | 61°3'45" |
| C3 | 475.00' | 213.22' | 108.44' | 211.43' | S51°21'42"E | 25°43'09" |
| C4 | 20.00' | 31.24' | 19.83' | 28.16' | N16°46'17"E | 89°30'30" |
| C5 | 20.00' | 31.72' | 20.30' | 28.50' | S73°02'39"E | 90°51'38" |
| C6 | 20.00' | 34.66' | 23.54' | 30.49' | S11°52'22"W | 99°18'21" |
| C7 | 20.00' | 28.66' | 17.41' | 26.27' | N77°25'39"W | 82°05'38" |
| C8 | 5.00' | 7.08' | 4.28' | 6.50' | N75°13'12"E | 81°07'03" |
| C9 | 5.00' | 8.63' | 5.84' | 7.60' | S14°46'48"E | 98°52'57" |
| C10 | 1.01' | 3.16' | INFINITY | 2.01' | S61°31'32"W | 180°00'00" |
| C11 | 250.00' | 81.41' | 41.07' | 81.05' | S50°07'31"E | 18°39'28" |
| C12 | 200.00' | 21.82' | 10.92' | 21.81' | N56°19'45"W | 61°5'00" |
| C13 | 220.00' | 63.70' | 32.07' | 63.48' | S64°49'53"E | 16°35'22" |
| C14 | 250.00' | 38.85' | 19.47' | 38.82' | N68°40'25"W | 8°54'17" |



NOTES:
 1. ALL WHEELCHAIR RAMPS BY DEVELOPER
 2. UNLESS OTHERWISE NOTED ALL 2:1 SLOPES SHALL BE STABILIZED WITH LOOSE ROCK RIP-RAP.

SEE SHEET 25 FOR DRAINAGE STRUCTURE #1



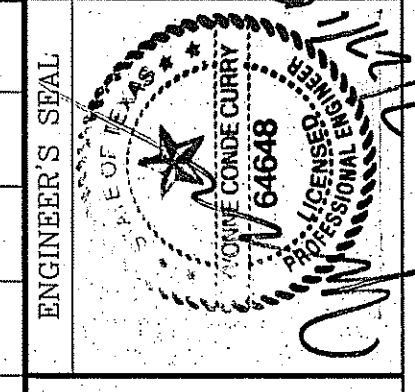
BENCHMARK
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
 FESTIVAL DR. AND NEW ORLEANS DR.
 ELEVATION: 4137.81 (CITY DATUM)

| BY | REVISIONS |
|--|------------------------------|
| R.O. <td>CITY REDES - ST. NAME CHANGE</td> | CITY REDES - ST. NAME CHANGE |
| R.O. <td>CITY REDES - NOTE</td> | CITY REDES - NOTE |
| R.O. <td>NEW STREET RONS</td> | NEW STREET RONS |

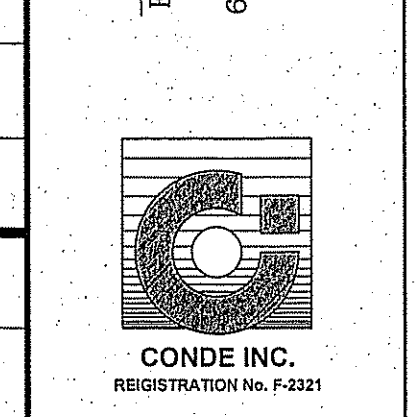
DATE: 8-29-2014
 4-28-2015

PROJECT NAME
MONTECILLO UNIT FOUR "A"
 BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2,
 MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1,
 JOHN BARKER SURVEY 10,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 10.068± ACRES

SCALE: 1"=30'
 HORIZ: 1"=30'
 VERT: 1"=10'
 DATE: NOV. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 315-46

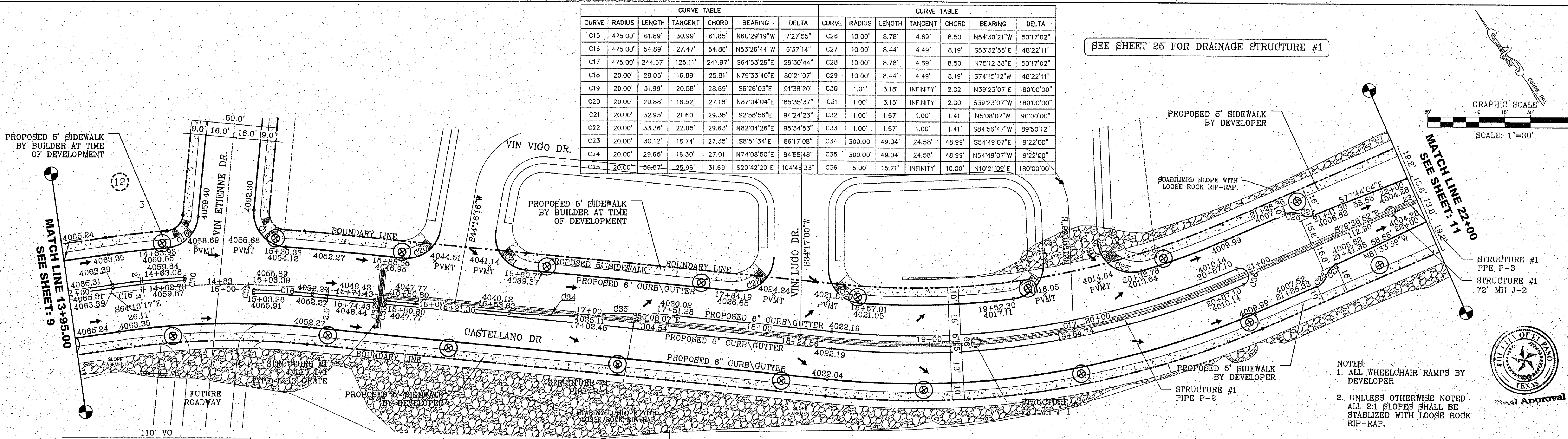


CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6050 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0263
 FAX: (915) 592-0266



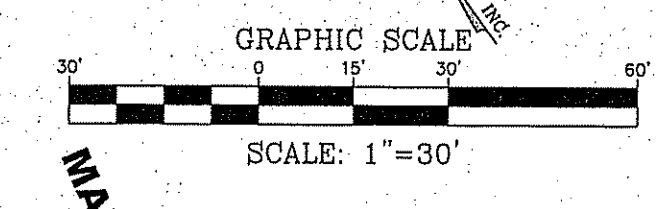
SHEET TITLE
CASTELLANO DR.
7+00 - 3+95.00
 SHT 9 OF 41

S:\Drawings\MONTECILLO UNIT FOUR\TEPP\CASTELLANO.DWG, S:\CASTELLANO.DWG, S:\CASTELLANO 25X11.PEN



| CURVE TABLE | | | | | CURVE TABLE | | | | | | |
|-------------|---------|--------|---------|---------------|---------------|-------|--------|--------|---------|---------------|-------|
| CURVE | RADIUS | LENGTH | TANGENT | CHORD BEARING | DELTA | CURVE | RADIUS | LENGTH | TANGENT | CHORD BEARING | DELTA |
| C15 | 475.00' | 61.89' | 30.99' | 61.85' | N60°29'19\"/> | | | | | | |

SEE SHEET 25 FOR DRAINAGE STRUCTURE #1



- NOTES:
- ALL WHEELCHAIR RAMPS BY DEVELOPER
 - UNLESS OTHERWISE NOTED ALL 2:1 SLOPES SHALL BE STABILIZED WITH LOOSE ROCK RIP-RAP.



| | |
|--|-----------------------|
| BENCHMARK | |
| CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR. ELEVATION: 4137.81 (CITY DATUM) | |
| DATE | BY |
| 8-5-2014 | R.O. |
| 9-29-2014 | REVISIONS |
| 7-23-2015 | CITY REVISIONS - NOTE |
| | NEW STREET ROWS |

PROJECT NAME: **MONTECILLO UNIT FOUR "A"**

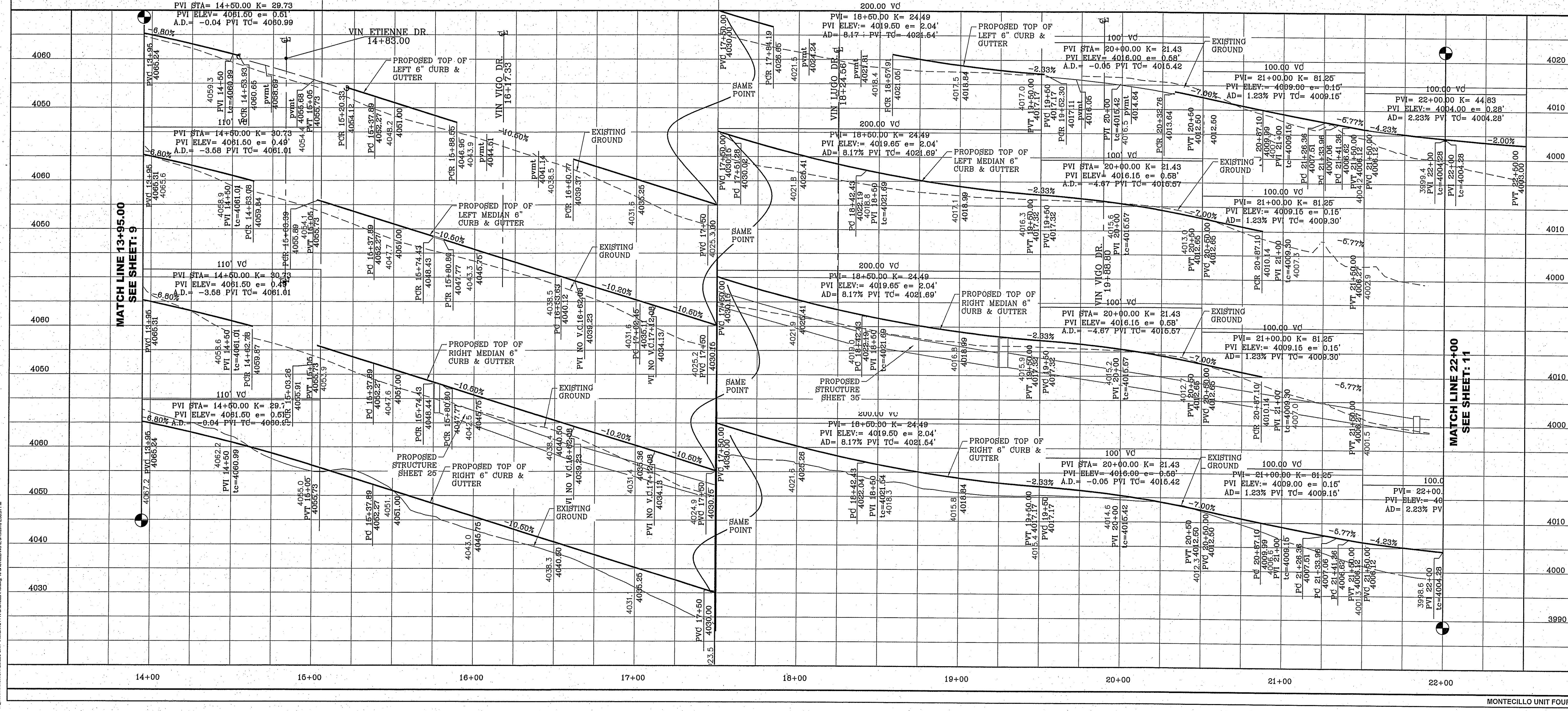
BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1, JOHN BARBER SURVEY 10, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 10.0664 ACRES

DATE: NOV. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 315-45

CONDE INC.
 ENGINEERING / PLANNING / SURVEYING / GFS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0293
 FAX: (915) 592-0286

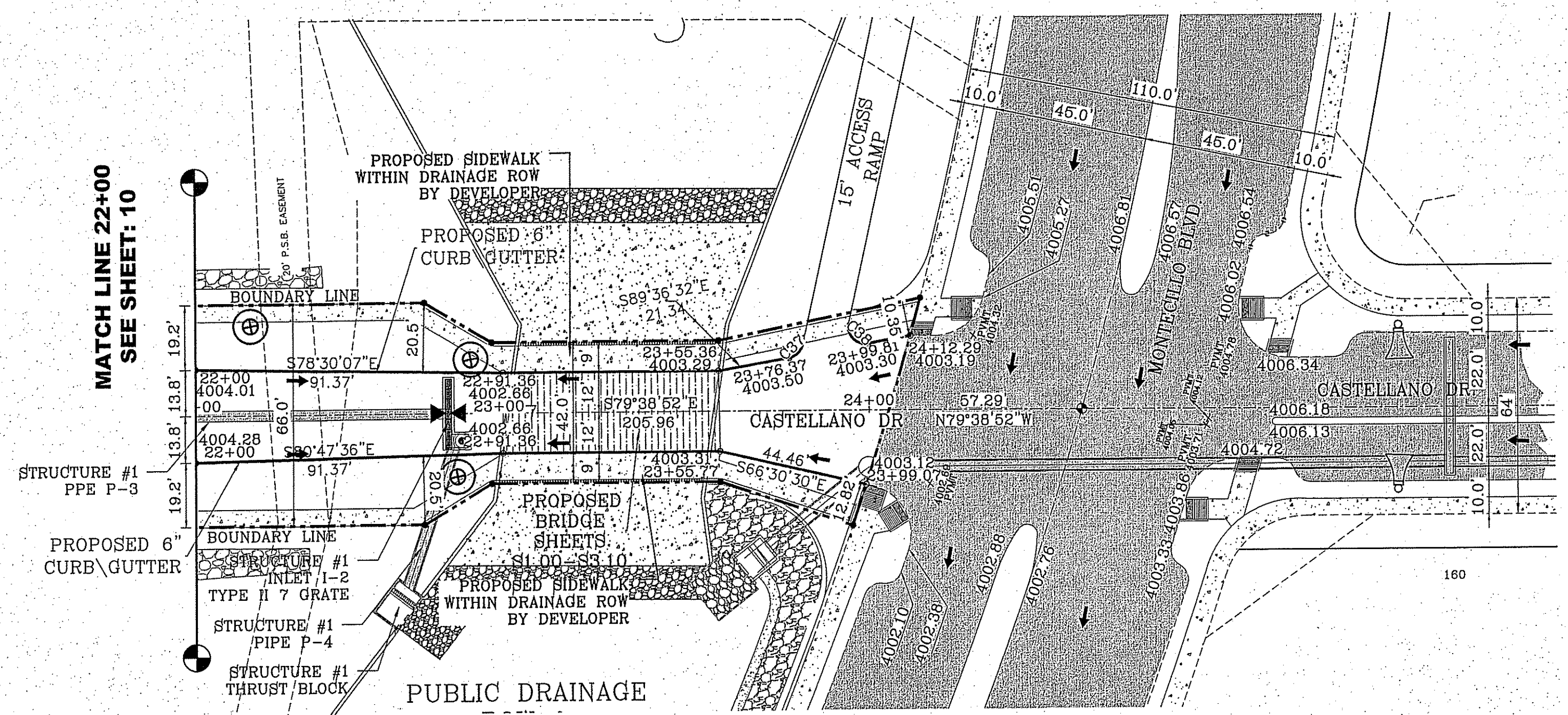
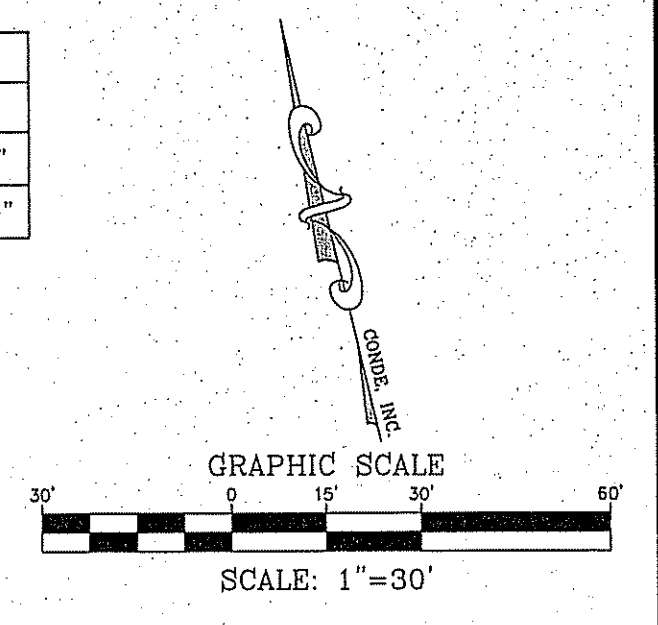
SHEET TITLE: **CASTELLANO DR. 13+95.00 - 22+00**

SHT 10 OF 41



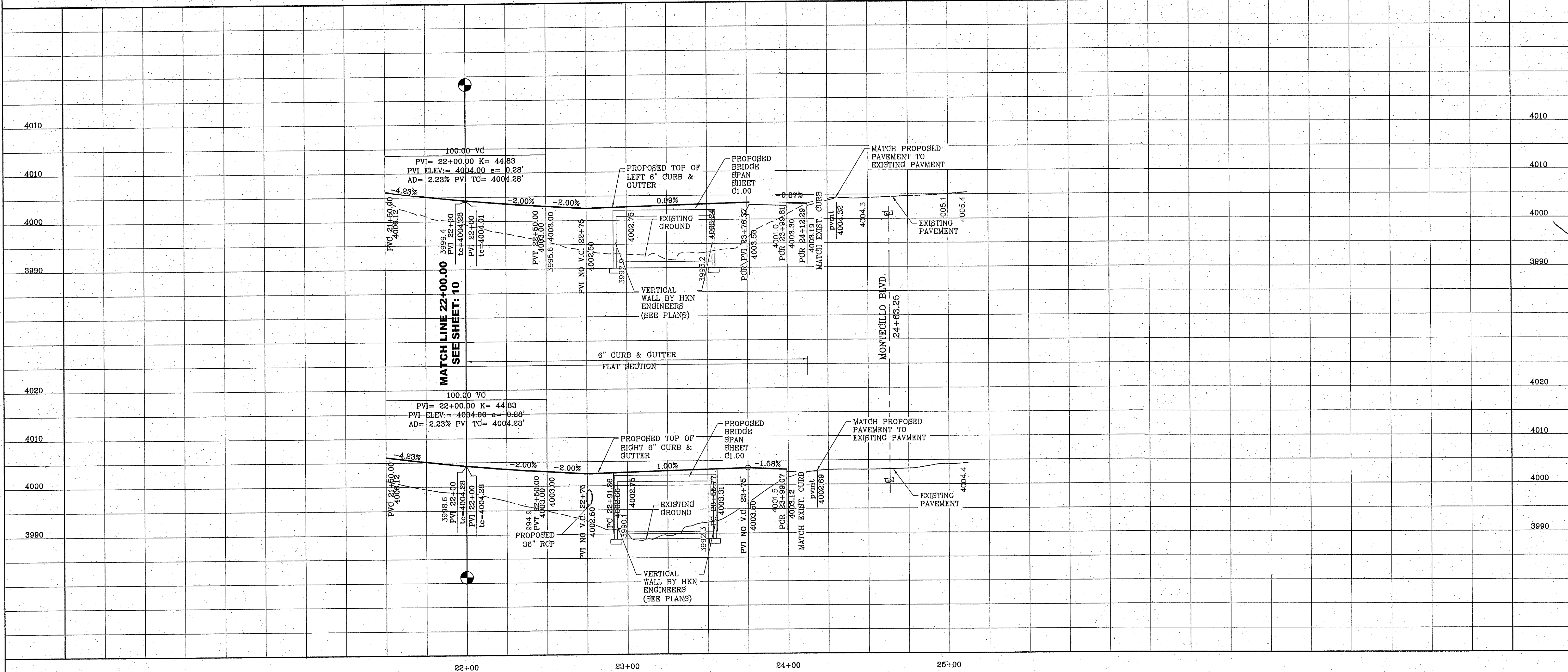
S:\Drawings\MONTECILLO UNIT FOUR\MONTECILLO UNIT FOUR CASTELLANO DR.dwg, 10/20/2013 2:53:31 PM

| CURVE TABLE | | | | | |
|-------------|--------|--------|---------|-------|------------------------|
| CURVE | RADIUS | LENGTH | TANGENT | CHORD | DELTA |
| C37 | 5.00' | 5.90' | 3.35' | 5.56' | N56°35'18"E 67°36'21" |
| C38 | 5.00' | 9.81' | 7.47' | 8.31' | S33°24'42"E 112°23'39" |



SEE SHEET 25 FOR DRAINAGE STRUCTURE #1

- NOTES:
1. ALL WHEELCHAIR RAMPS BY DEVELOPER
 2. UNLESS OTHERWISE NOTED ALL 2:1 SLOPES SHALL BE STABILIZED WITH LOOSE ROCK RIP-RAP.



| | |
|-----------|---|
| BENCHMARK | CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR. ELEVATION: 4157.61 (CITY DATUM) |
| DATE | 8-8-2014 |
| REVISIONS | CITY REVISION - ST. NAME CHANGE |
| BY | R.O. |

PROJECT NAME
MONTECILLO UNIT FOUR "A"
BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1, JOHN BARKER SURVEY 10, MONTECILLO UNIT FOUR SURVEY 10, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 10.0661 ACRES

SCALE
HORIZ: 1"=30'
VERT: 1"=10'
DATE: NOV. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 315-45

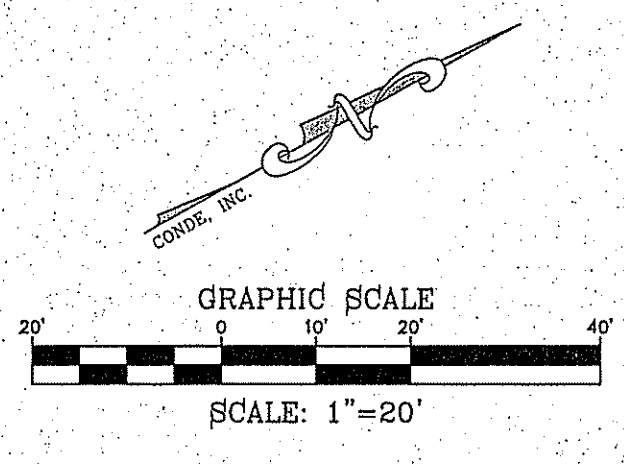
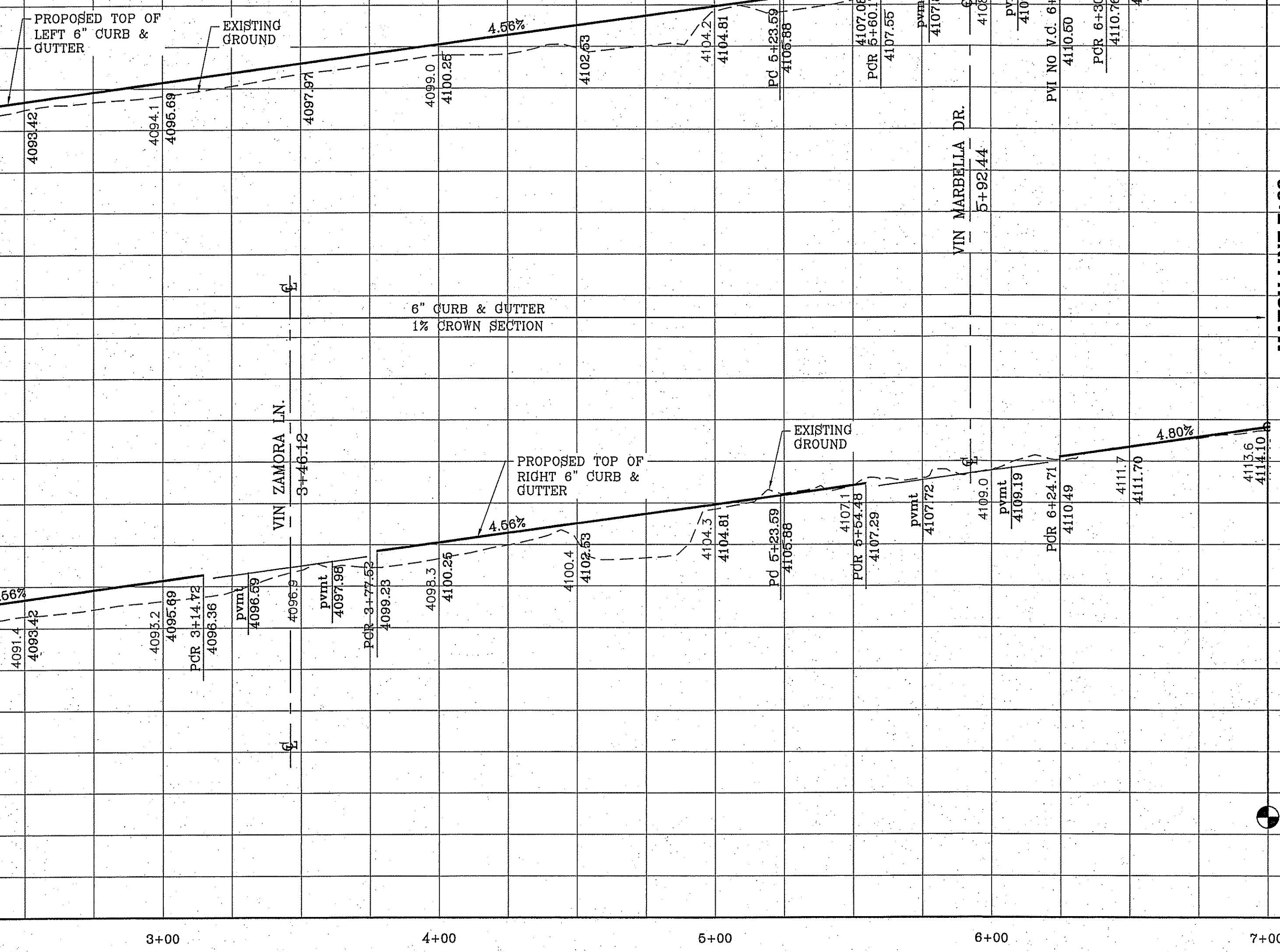
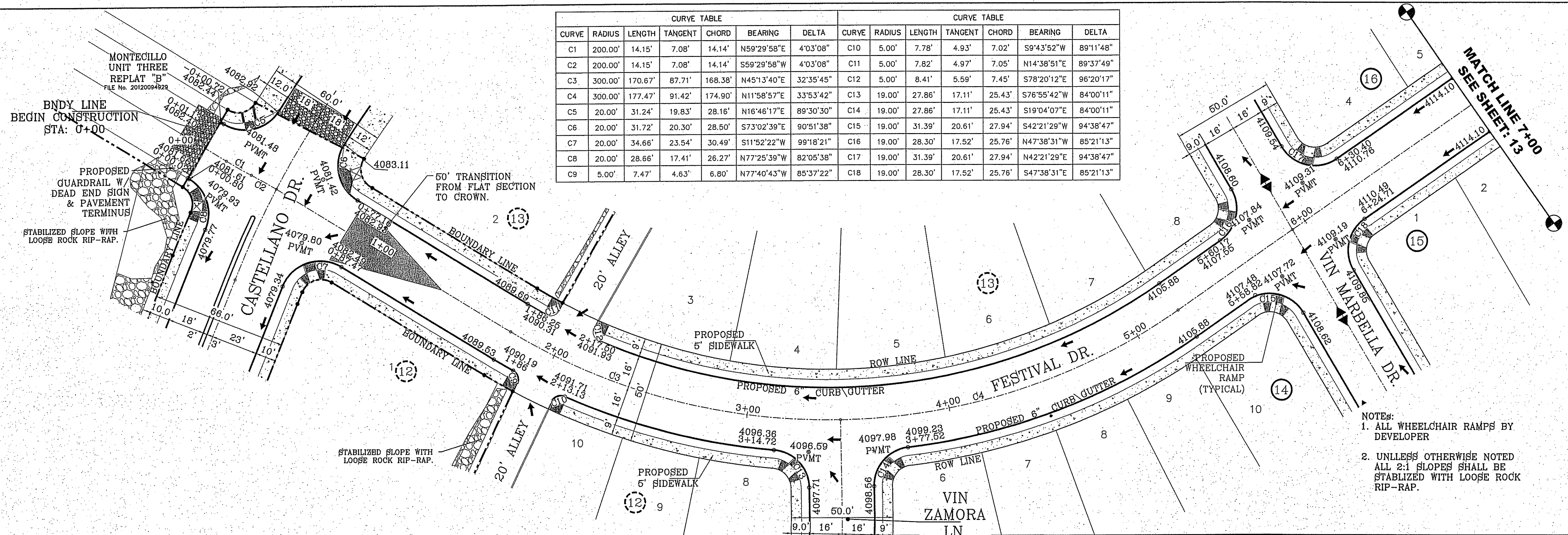
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SUDBURY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286



SHEET TITLE
STREET
PLAN-PROFILE
**CASTELLANO DR.
22+00.00 - END**

S:\30888\WHITECLOUT\AMONTECILLO\CASTELLANO.DWG 11 CASTELLANO.DWG 8/8/2014 5:50:00 PM

| CURVE TABLE | | | | | | CURVE TABLE | | | | | | | |
|-------------|---------|---------|---------|---------|-------------|-------------|-------|--------|--------|---------|--------|-------------|-----------|
| CURVE | RADIUS | LENGTH | TANGENT | CHORD | BEARING | DELTA | CURVE | RADIUS | LENGTH | TANGENT | CHORD | BEARING | DELTA |
| C1 | 200.00' | 14.15' | 7.08' | 14.14' | N59°29'58"E | 4°03'08" | C10 | 5.00' | 7.78' | 4.93' | 7.02' | S9°43'52"W | 89°11'48" |
| C2 | 200.00' | 14.15' | 7.08' | 14.14' | S59°29'58"W | 4°03'08" | C11 | 5.00' | 7.82' | 4.97' | 7.05' | N14°38'51"E | 89°37'49" |
| C3 | 300.00' | 170.67' | 87.71' | 168.38' | N45°13'40"E | 32°35'45" | C12 | 5.00' | 8.41' | 5.59' | 7.45' | S78°20'12"E | 96°20'17" |
| C4 | 300.00' | 177.47' | 91.42' | 174.90' | N11°58'57"E | 33°53'42" | C13 | 19.00' | 27.86' | 17.11' | 25.43' | S76°55'42"W | 84°00'11" |
| C5 | 20.00' | 31.24' | 19.83' | 28.16' | N16°46'17"E | 89°30'30" | C14 | 19.00' | 27.86' | 17.11' | 25.43' | S19°04'07"E | 84°00'11" |
| C6 | 20.00' | 31.72' | 20.30' | 28.50' | S73°02'39"E | 90°51'38" | C15 | 19.00' | 31.39' | 20.61' | 27.94' | S42°21'29"W | 94°38'47" |
| C7 | 20.00' | 34.66' | 23.54' | 30.49' | S11°52'22"W | 99°18'21" | C16 | 19.00' | 28.30' | 17.52' | 25.76' | N47°38'31"W | 85°21'13" |
| C8 | 20.00' | 28.66' | 17.41' | 26.27' | N77°25'39"W | 82°05'38" | C17 | 19.00' | 31.39' | 20.61' | 27.94' | N42°21'29"E | 94°38'47" |
| C9 | 5.00' | 7.47' | 4.63' | 6.80' | N77°40'43"W | 85°37'22" | C18 | 19.00' | 28.30' | 17.52' | 25.76' | S47°38'31"E | 85°21'13" |



NOTES:
 1. ALL WHEELCHAIR RAMPS BY DEVELOPER
 2. UNLESS OTHERWISE NOTED ALL 2:1 SLOPES SHALL BE STABILIZED WITH LOOSE ROCK RIP-RAP.

BENCHMARK
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
 FESTIVAL DR. AND NEW ORLEANS DR.
 ELEVATION: 4137.81 (CITY DATUM)

| DATE | BY | REVISIONS |
|-----------|---|-----------|
| 9-5-2014 | CITY RECS - ST. NAME CHANGE | |
| 2-23-2015 | STREET LIGHT POLE AND FIRE HYDRANT DETAIL | |
| 4-28-2015 | NEW STREET EDGES | |

PROJECT NAME
MONTECILLO UNIT FOUR "A"
 BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2,
 MONTECILLO UNIT THREE REPLAT "B", AND A PORTION OF TRACT 1,
 MONTECILLO UNIT THREE REPLAT "B", AND A PORTION OF TRACT 10,
 JOHN BAKER SURVEY, T.10N, R.10E,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 10.058± ACRES

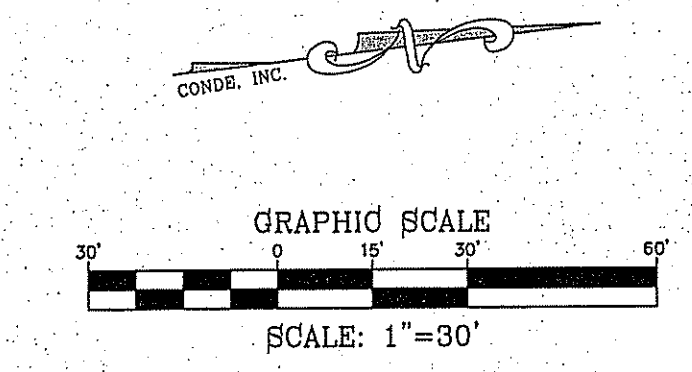
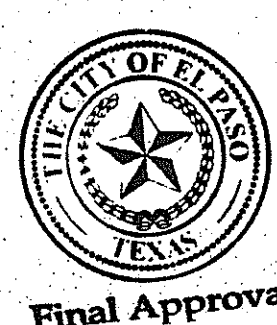
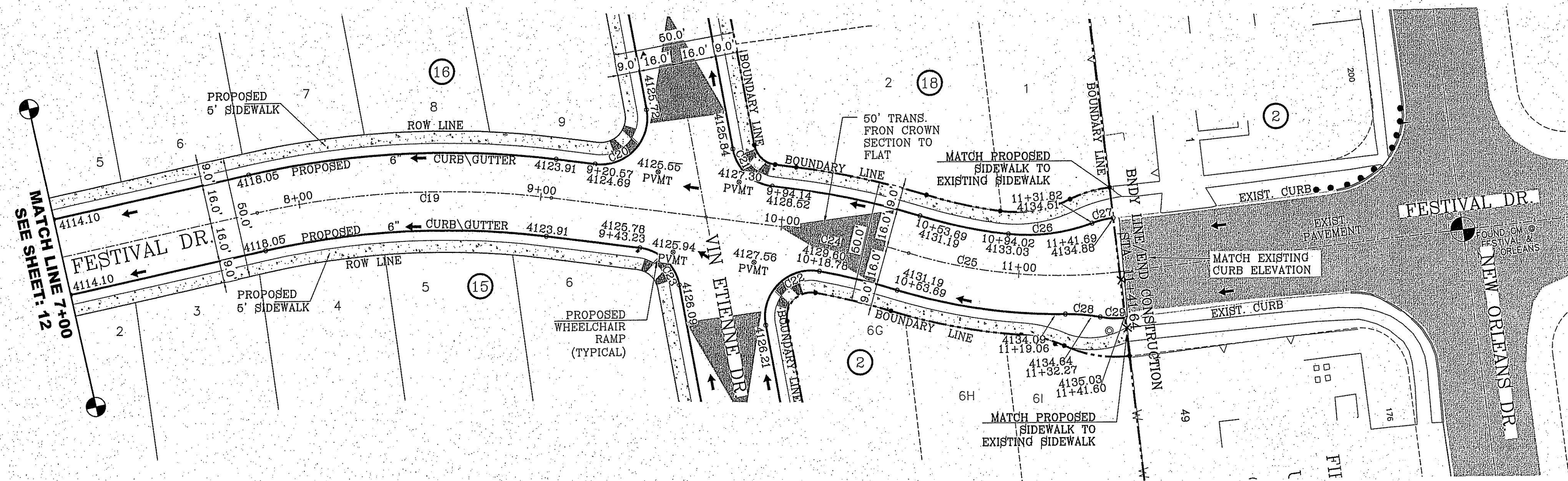
SCALE
 HORIZ: 1"=30'
 VERT: 1"=10'
 DATE: NOV. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 315-46

ENGINEER'S SEAL

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

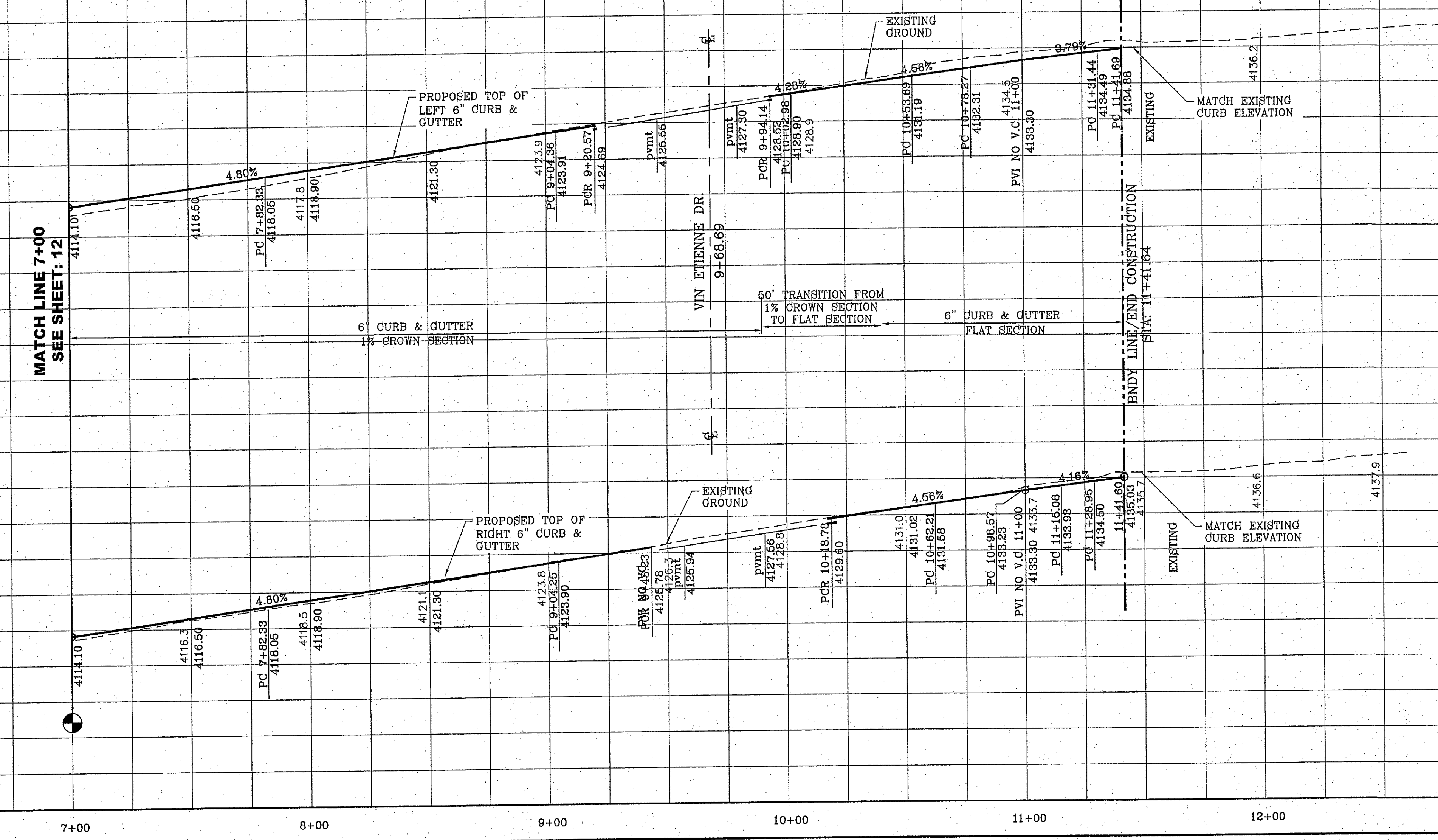
SHEET TITLE
FESTIVAL DR.
0+00 - 7+00
 SHT 12 OF 41
 MONTECILLO UNIT FOUR A

S:\Subarea\MONTECILLO UNIT AMMOUNT\ELP\FESTIVAL.DWG, 13 FESTIVAL, 11/09/2013 2:42:31 PM



| CURVE | RADIUS | LENGTH | TANGENT | CHORD | BEARING | DELTA |
|-------|---------|---------|---------|---------|-------------|------------|
| C19 | 350.00' | 122.03' | 61.64' | 121.41' | S5°01'23"W | 19°58'35" |
| C20 | 19.00' | 35.79' | 26.12' | 30.73' | N38°57'33"W | 107°56'28" |
| C21 | 19.00' | 23.90' | 13.82' | 22.35' | N51°02'27"E | 72°03'32" |
| C22 | 19.00' | 36.80' | 27.62' | 31.31' | S37°27'02"E | 110°57'29" |
| C23 | 19.00' | 23.90' | 13.82' | 22.35' | S51°02'27"W | 72°03'32" |
| C24 | 300.00' | 50.71' | 25.41' | 50.65' | S19°51'13"W | 9°41'05" |
| C25 | 210.00' | 87.95' | 44.63' | 87.31' | N12°41'55"E | 23°59'42" |
| C26 | 75.00' | 35.10' | 17.88' | 34.78' | N0°17'05"E | 28°49'02" |
| C27 | 37.30' | 8.97' | 4.51' | 8.95' | S6°14'02"E | 13°46'47" |
| C28 | 75.00' | 14.41' | 7.23' | 14.39' | S12°21'59"W | 11°00'41" |
| C29 | 34.13' | 10.26' | 5.17' | 10.23' | N9°15'21"E | 17°13'58" |

NOTES:
 1. ALL WHEELCHAIR RAMPS BY DEVELOPER
 2. UNLESS OTHERWISE NOTED ALL 2:1 SLOPES SHALL BE STABILIZED WITH LOOSE ROCK RIP-RAP.



PROJECT NAME: **MONTECILLO UNIT FOUR "A"**
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR. ELEVATION: 4157.61 (CITY DATUM)
 BENCHMARK:
 BY:
 REVISIONS:
 DATE:
 CITY REVISION: ST. NAME CHANGE
 R.O.
 STREET LIGHT POLE AND FIRE HYDRANT DETAIL
 R.O.
 NEW STREET ROWS
 R.O.

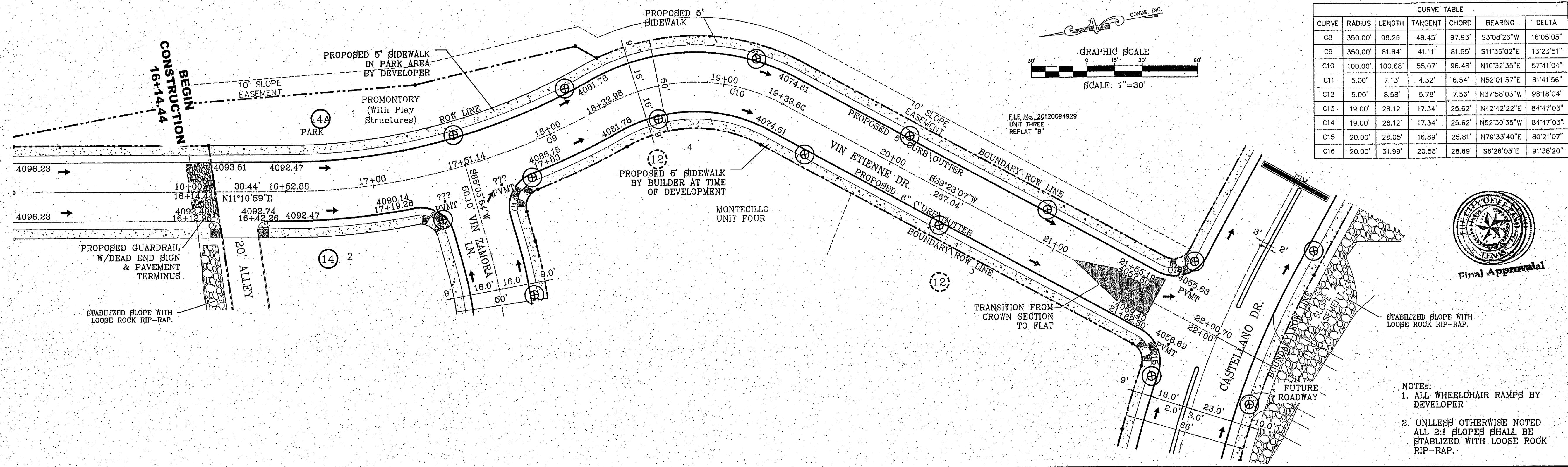
S C A L E
 HORIZ: 1"=30'
 VERT: 1"=10'
 DATE: NOV. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 315-45

ENGINEER'S SEAL

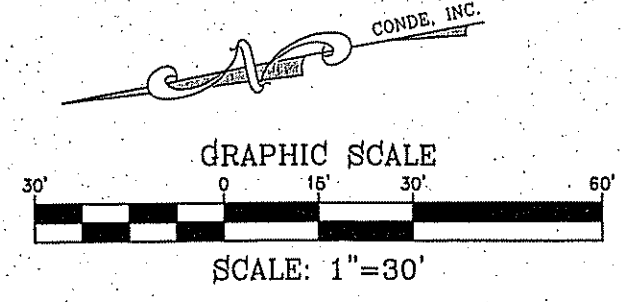
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6060 SURETY DR. STE. 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

CONDE INC.
 REGISTRATION NO. F-2311
 SHEET TITLE
FESTIVAL DR. 7+00 - END
 SHT 13 OF 41

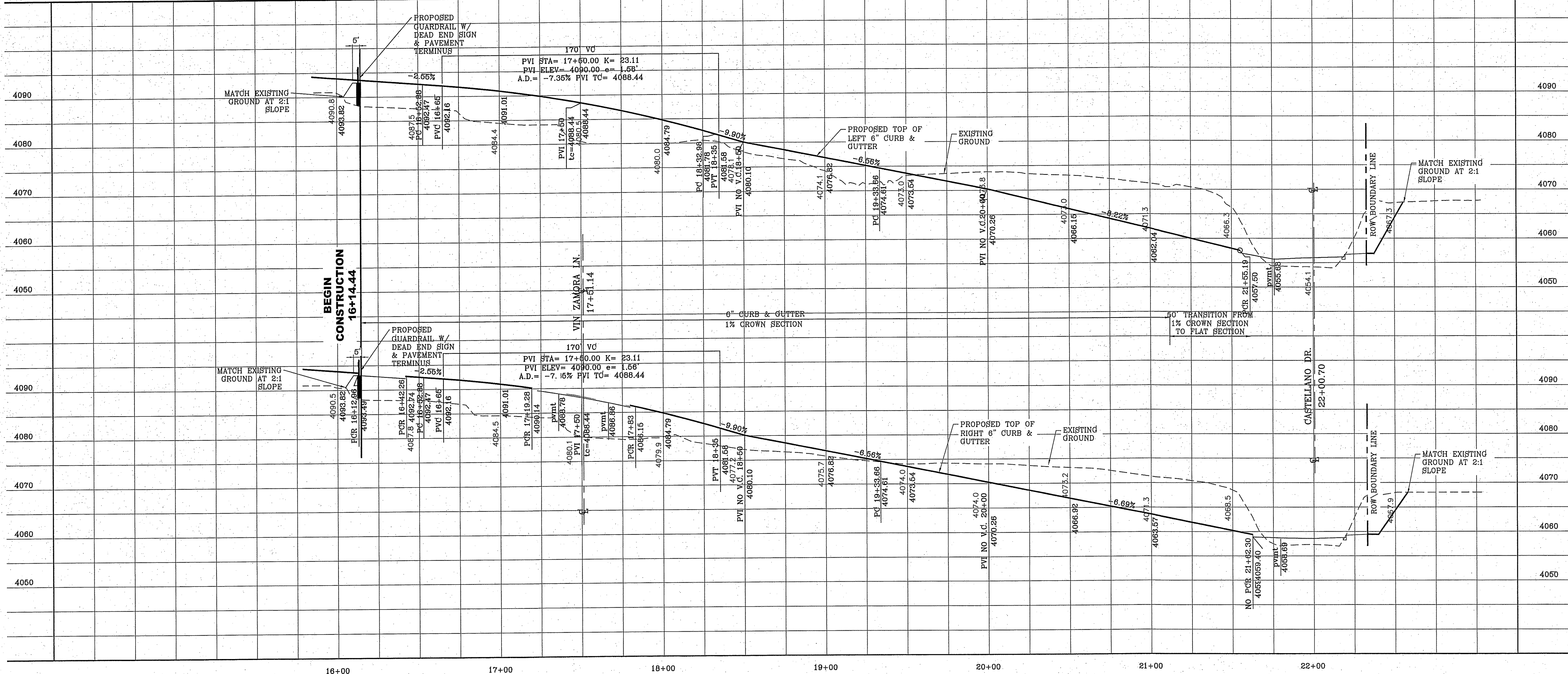
S:\Submissions\MONTECILLO UNIT FOUR\FESTIVAL.DWG_13.FESTIVAL_2_592835_5437.PLM



| CURVE TABLE | | | | | | |
|-------------|---------|---------|---------|--------|-------------|-----------|
| CURVE | RADIUS | LENGTH | TANGENT | CHORD | BEARING | DELTA |
| C8 | 350.00' | 98.26' | 49.45' | 97.93' | S3°08'26"W | 16°05'05" |
| C9 | 350.00' | 81.84' | 41.11' | 81.65' | S11°36'02"E | 13°23'51" |
| C10 | 100.00' | 100.68' | 55.07' | 96.48' | N10°32'35"E | 57°41'04" |
| C11 | 5.00' | 7.13' | 4.32' | 6.54' | N52°01'57"E | 81°41'56" |
| C12 | 5.00' | 8.58' | 5.78' | 7.56' | N37°58'03"W | 98°18'04" |
| C13 | 19.00' | 28.12' | 17.34' | 25.62' | N42°42'22"E | 84°47'03" |
| C14 | 19.00' | 28.12' | 17.34' | 25.62' | N52°30'35"W | 84°47'03" |
| C15 | 20.00' | 28.05' | 16.89' | 25.81' | N79°33'40"E | 80°21'07" |
| C16 | 20.00' | 31.99' | 20.58' | 28.69' | S6°26'03"E | 91°38'20" |



- NOTES:
1. ALL WHEELCHAIR RAMPS BY DEVELOPER
 2. UNLESS OTHERWISE NOTED ALL 2:1 SLOPES SHALL BE STABILIZED WITH LOOSE ROCK RIP-RAP.



BENCHMARK
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
 FESTIVAL DR. AND NEW ORLEANS DR.
 ELEVATION: 4137.81 (CITY DATUM)

REVISIONS
 BY
 R.O.
 DATE
 8-5-2014
 CITY REDES - ST. NAME CHANGE
 4-28-2015
 NEW STREET SECTIONS

PROJECT NAME
MONTECILLO UNIT FOUR "A"

BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2,
 MONTECILLO UNIT THREE REPLAT AND PORTION OF TRACT 1,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 10.068± ACRES

SCALE
 HORIZ: 1"=90'
 VERT: 1"=10'

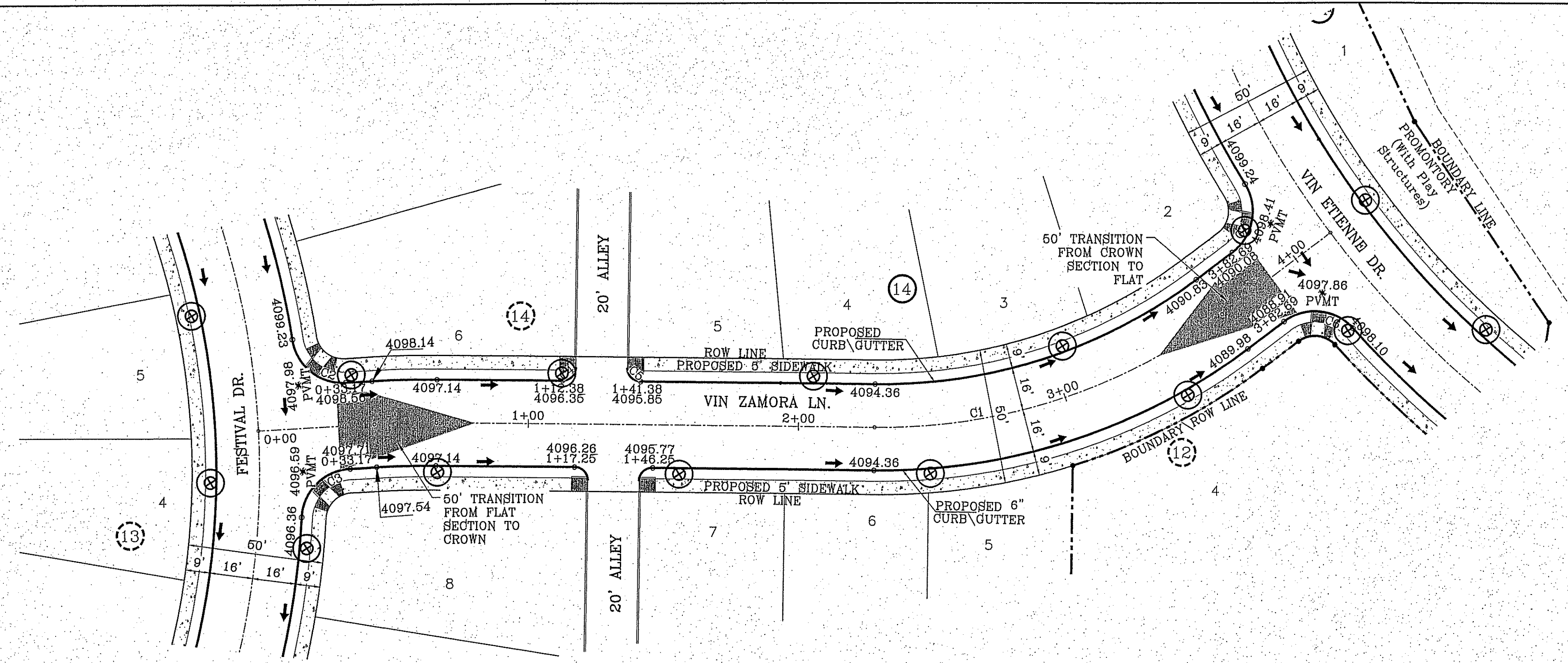
DATE: NOV. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 315-45

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

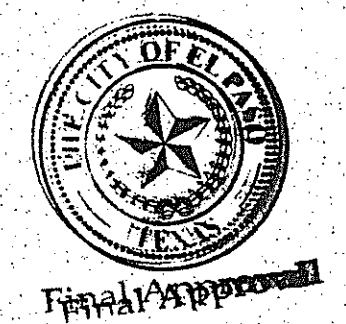
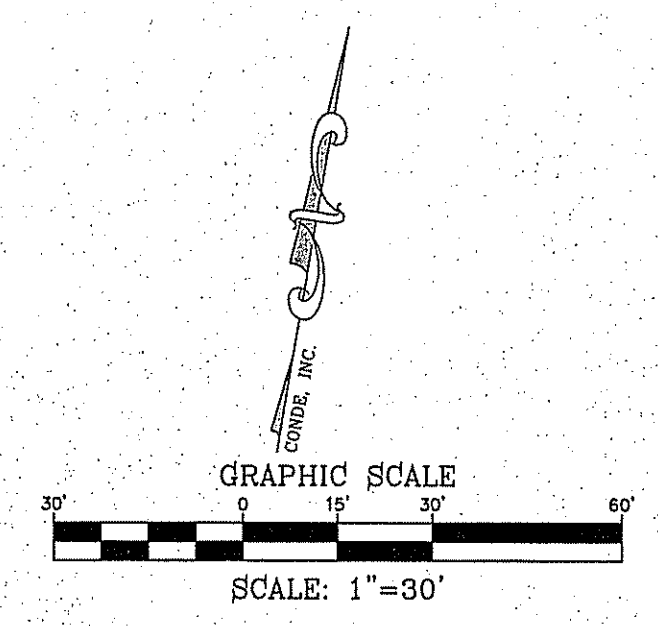
CONDE INC.
 REGISTRATION No. F-2321

SHEET TITLE
**STREET
 PLAN-PROFILE**

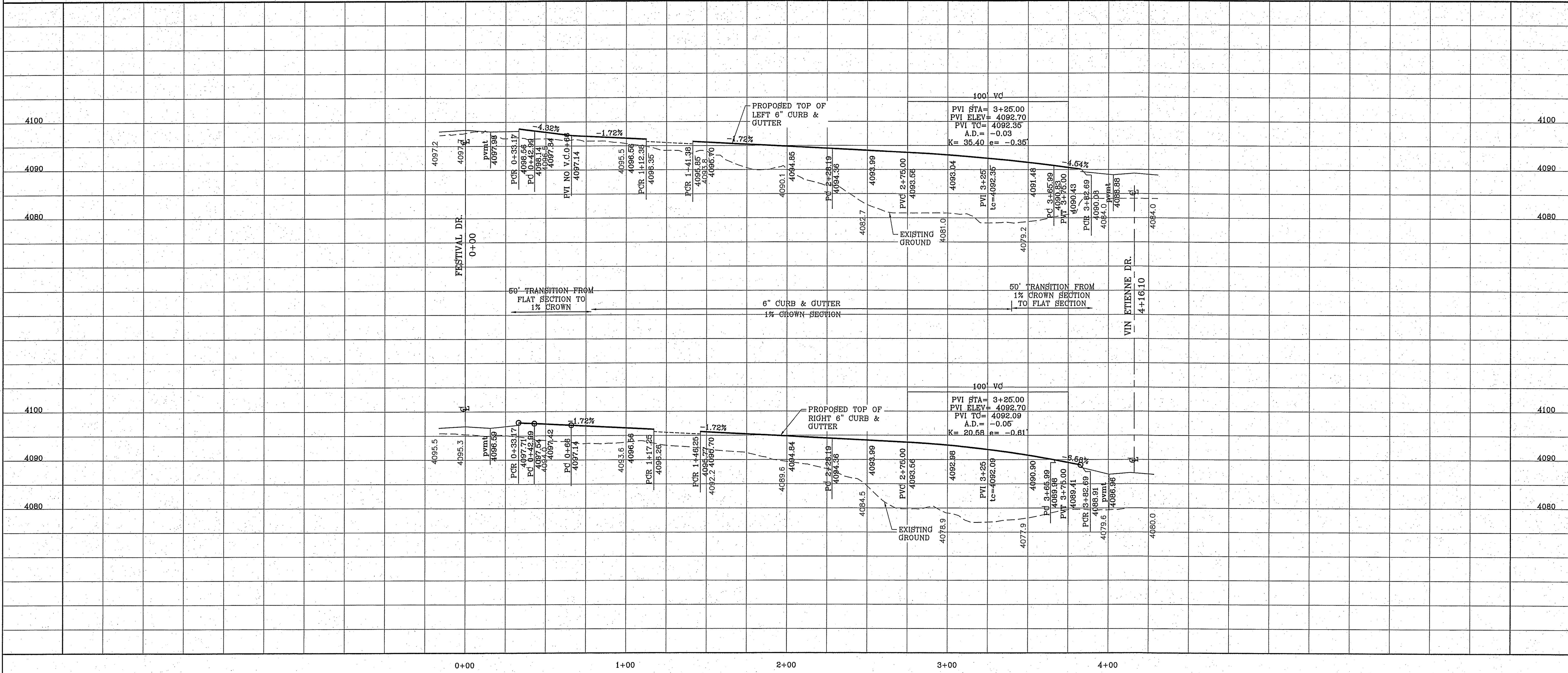
**VIN ETIENNE
 DR.
 16+14.44 - END**



| CURVE TABLE | | | | | | |
|-------------|---------|---------|---------|---------|-------------|-----------|
| CURVE | RADIUS | LENGTH | TANGENT | CHORD | BEARING | DELTA |
| C1 | 210.00' | 137.80' | 71.48' | 135.34' | S76°06'11"E | 37°35'50" |
| C2 | 19.00' | 27.86' | 17.11' | 25.43' | S19°04'07"E | 84°00'11" |
| C3 | 19.00' | 27.86' | 17.11' | 25.43' | S76°55'42"W | 84°00'11" |
| C4 | 5.00' | 7.85' | 5.00' | 7.07' | N77°41'44"E | 90°00'00" |
| C5 | 5.00' | 7.85' | 5.00' | 7.07' | S12°18'16"E | 90°00'00" |
| C6 | 19.00' | 28.12' | 17.34' | 25.62' | N52°30'35"W | 84°47'03" |
| C7 | 19.00' | 28.12' | 17.34' | 25.62' | N42°42'22"E | 84°47'03" |



NOTES:
 1. ALL WHEELCHAIR RAMPS BY DEVELOPER
 2. UNLESS OTHERWISE NOTED ALL 2:1 SLOPES SHALL BE STABILIZED WITH LOOSE ROCK RIP-RAP.



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR.
ELEVATION: 4137.81 (CITY DATUM)

PROJECT NAME
MONTECILLO UNIT FOUR "A"
BEING A REPEAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPEAT "B", AND PORTION OF TRACT 1, JOHN BARKER SURVEY 10, MONTECILLO UNIT THREE REPEAT "B", AND PORTION OF TRACT 1, CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 10.068± ACRES

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

DATE: NOV. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 316-45

ENGINEER'S SEAL
STATE OF TEXAS
WAYNE GEORGE CURRY
64648
LICENSED PROFESSIONAL ENGINEER
CIVIL

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

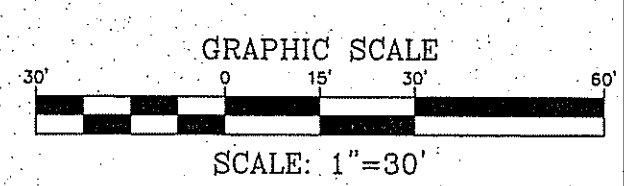
SHEET TITLE
STREET
PLAN-PROFILE

VIN
ZAMORA
LN.

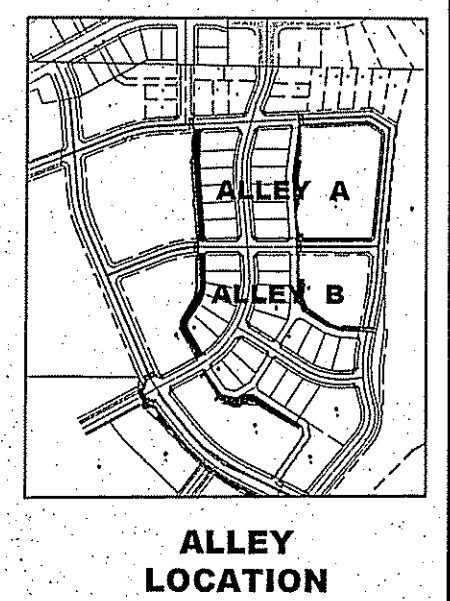
SHT 17 OF 41

C:\pds\monterello\unit 4\monterello\pds\monterello_17.zamora_090615.dwg

| LINE | LENGTH | BEARING |
|------|--------|----------------|
| L1 | 25.103 | S21°5'54.10"W |
| L2 | 12.259 | S4°09'12.38"E |
| L3 | 25.003 | S0°56'55.95"E |
| L4 | 25.007 | S0°33'20.27"E |
| L5 | 22.695 | S1°35'48.90"W |
| L6 | 25.040 | S30°11'28.91"E |
| L7 | 25.019 | S30°56'32.24"E |

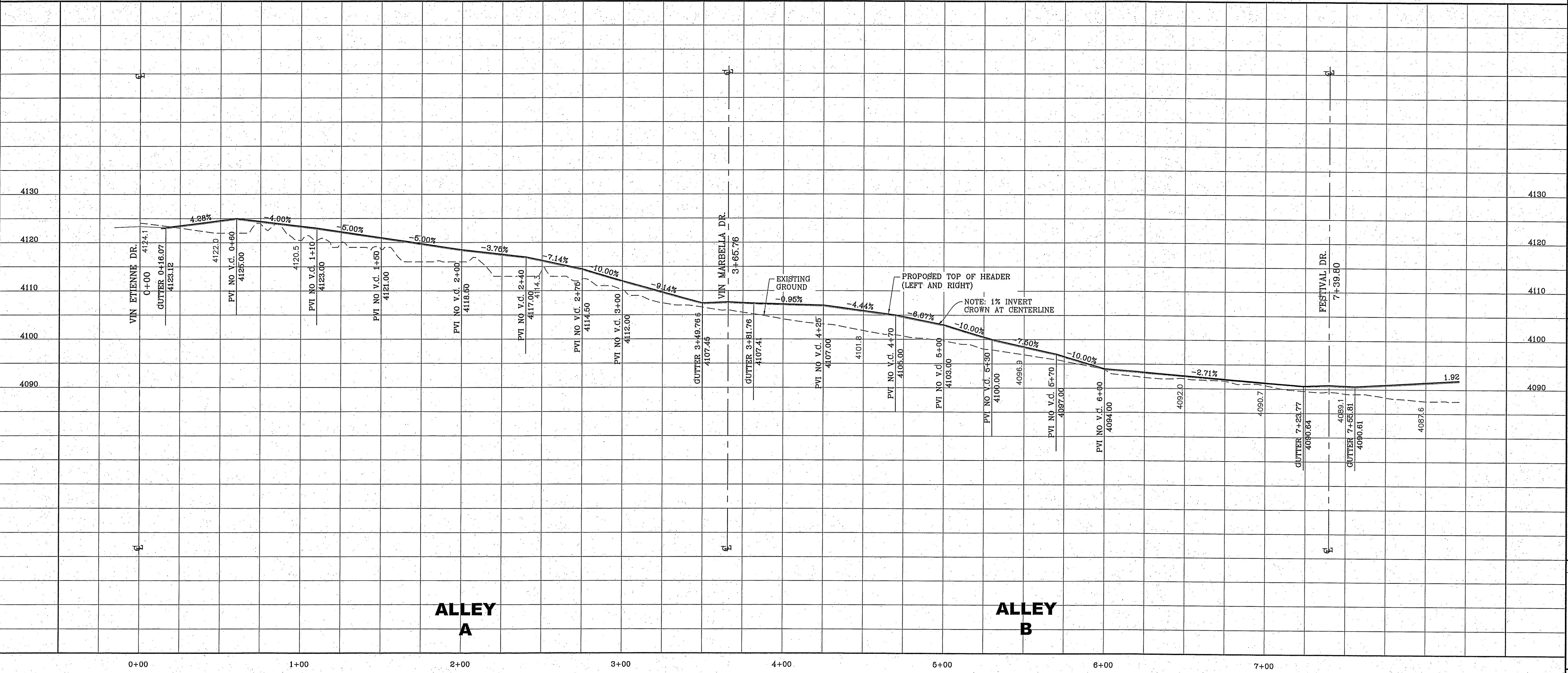
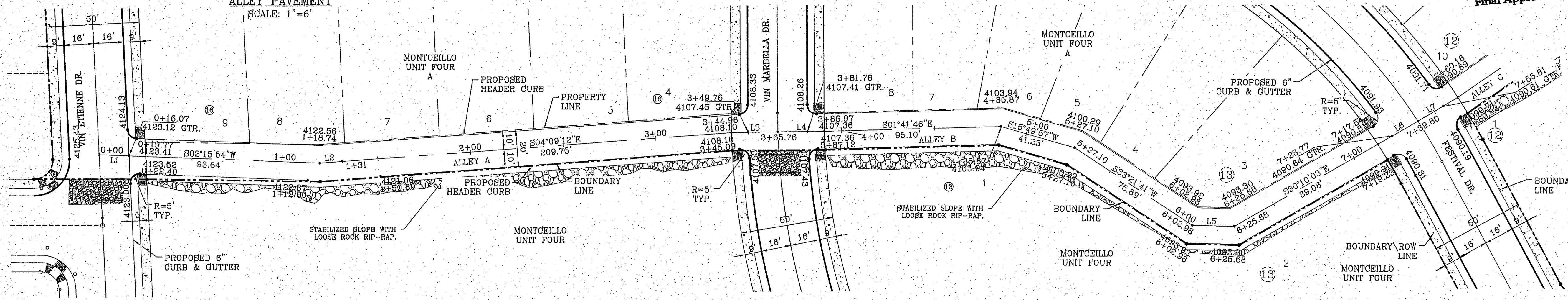
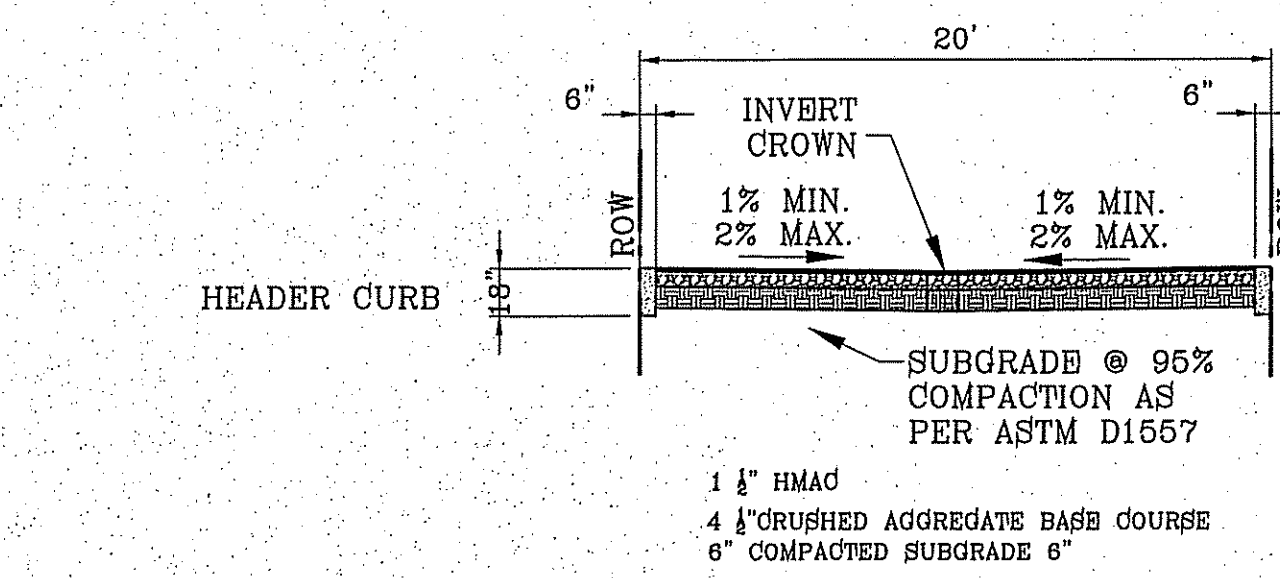


NOTES:
 1. ALL WHEELCHAIR RAMPS BY DEVELOPER
 2. UNLESS OTHERWISE NOTED ALL 2:1 SLOPES SHALL BE STABILIZED WITH LOOSE ROCK RIP-RAP.



- NOTES:
1. CONCRETE TO BE 3000 P.S.I. MINIMUM.
 2. DUMMY JOINT REQUIRED AT 10' O.C. FOR HEADERS.
 3. EXPANSION MATERIAL REQUIRED AT CURB RETURNS AND AT 20' O.C. FOR SIDEWALKS WITH 1/2" PREMOULDED ASPHALT IMPREGATED EXPANSION MATERIAL OR EQUAL.
 4. EXPANSION JOINTS REQUIRED AT 60' O.C. WHEN FORMING FOR HEADERS.
 5. EXPANSION JOINTS REQUIRED FOR SIDEWALK AT 20' O.C.
 6. MINIMUM PAVEMENT VALUES ARE SHOWN. FINAL PAVEMENT VALUES AS PER CBR REPORT.

ALLEY PAVEMENT
 SCALE: 1"=6'



ALLEY A

ALLEY B

PROJECT NAME: **MONTECILLO UNIT FOUR "A"**
 BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1, MONTECILLO UNIT THREE REPLAT "B", COUNTY OF EL PASO, TEXAS
 CITY OF EL PASO, TEXAS
 CONTAINING: 10.066± ACRES

ENGINEER'S SEAL: [Seal of Conde Inc. with name and registration number]

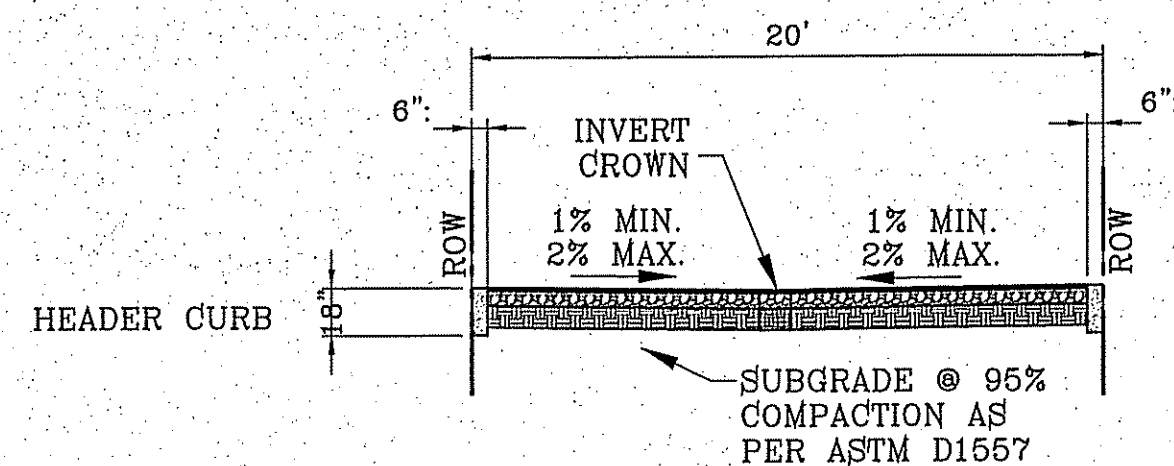
DATE: NOV. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 315-45

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

SHEET TITLE: **ALLEY A**
ALLEY B

SHT 18 OF 41

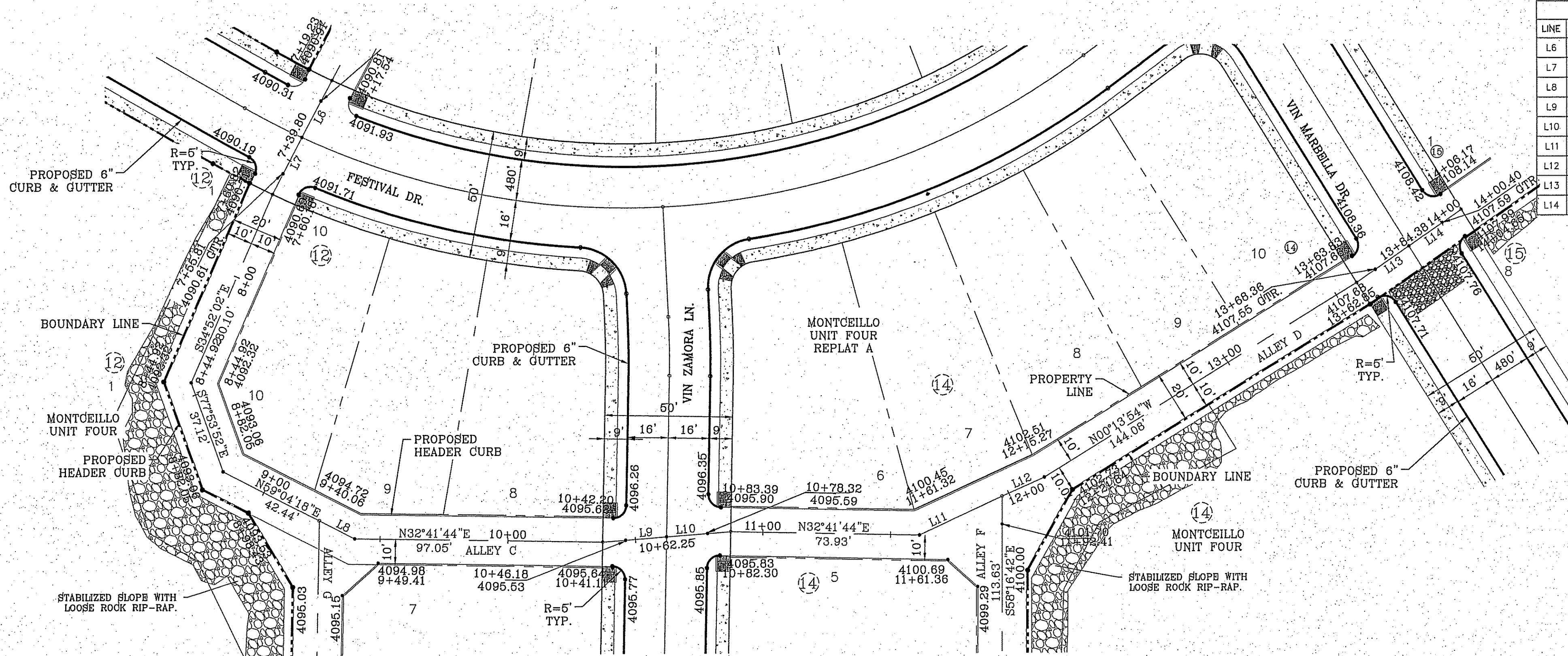
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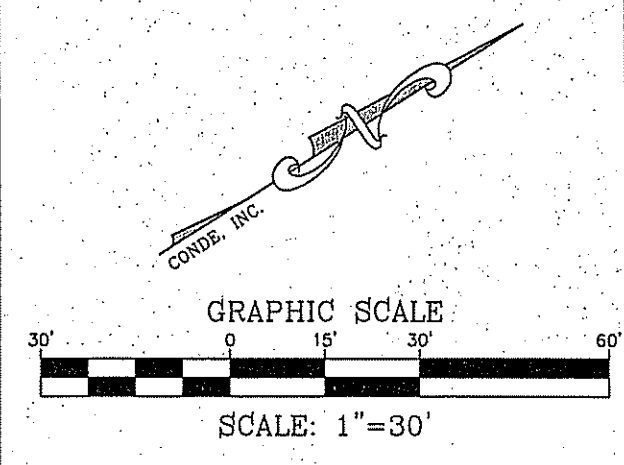
ALLEY PAVEMENT
SCALE: 1"=6'

NOTES:

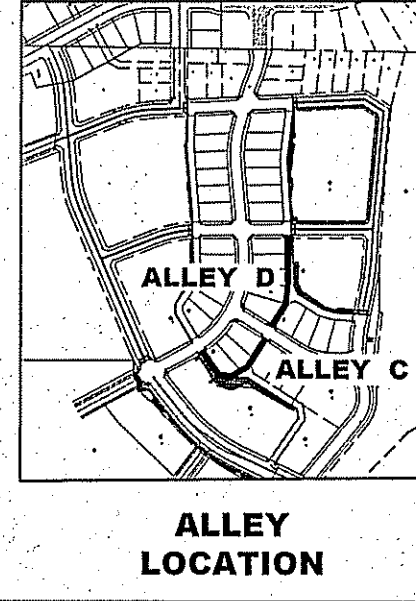
1. CONCRETE TO BE 3000 P.S.I. MINIMUM.
2. DUMMY JOINT REQUIRED AT 10' O.C. FOR HEADERS.
3. EXPANSION MATERIAL REQUIRED AT CURB RETURNS AND AT 20' O.C. FOR SIDEWALKS WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
4. EXPANSION JOINTS REQUIRED AT 60' O.C. WHEN FORMING FOR HEADERS.
5. EXPANSION JOINTS REQUIRED FOR SIDEWALK AT 20' O.C.
6. MINIMUM PAVEMENT VALUES ARE SHOWN. FINAL PAVEMENT VALUES AS PER CBR REPORT.



| LINE | LENGTH | BEARING |
|------|--------|----------------|
| L6 | 25.040 | S30°11'28.91"E |
| L7 | 25.019 | S30°56'32.24"E |
| L8 | 15.570 | N59°04'17.86"E |
| L9 | 25.118 | N27°08'12.10"E |
| L10 | 25.118 | N27°08'12.10"E |
| L11 | 35.847 | N61°18.37"E |
| L12 | 18.106 | N73°13.63"E |
| L13 | 25.034 | N31°14.60"W |
| L14 | 25.034 | N31°15.77"W |



- NOTES:**
1. ALL WHEELCHAIR RAMPS BY DEVELOPER
 2. UNLESS OTHERWISE NOTED ALL 2:1 SLOPES SHALL BE STABILIZED WITH LOOSE ROCK RIP-RAP.



| | |
|--|---------------------------------|
| BENCHMARK | |
| CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR. | ELEVATION: 4137.61 (CITY DATUM) |
| DATE | 4-28-2015 |
| REVISIONS | NEW STREET SECTIONS |
| BY | R.O. |

PROJECT NAME
MONTECILLO UNIT FOUR "A"
BEING A REPEAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPEAT "B", AND PORTION OF TRACT 1, JOHN BARKER SURVEY, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

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

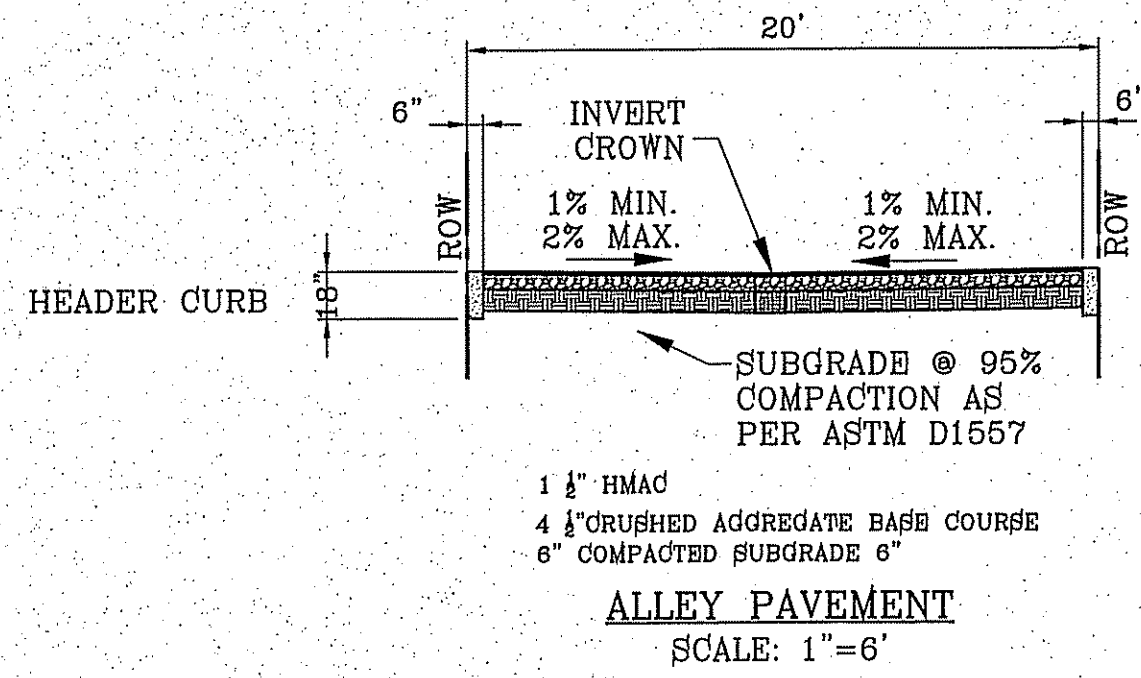
DATE: NOV. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 315-45

ENGINEER'S SEAL

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

SHEET TITLE
STREET
PLAN-PROFILE

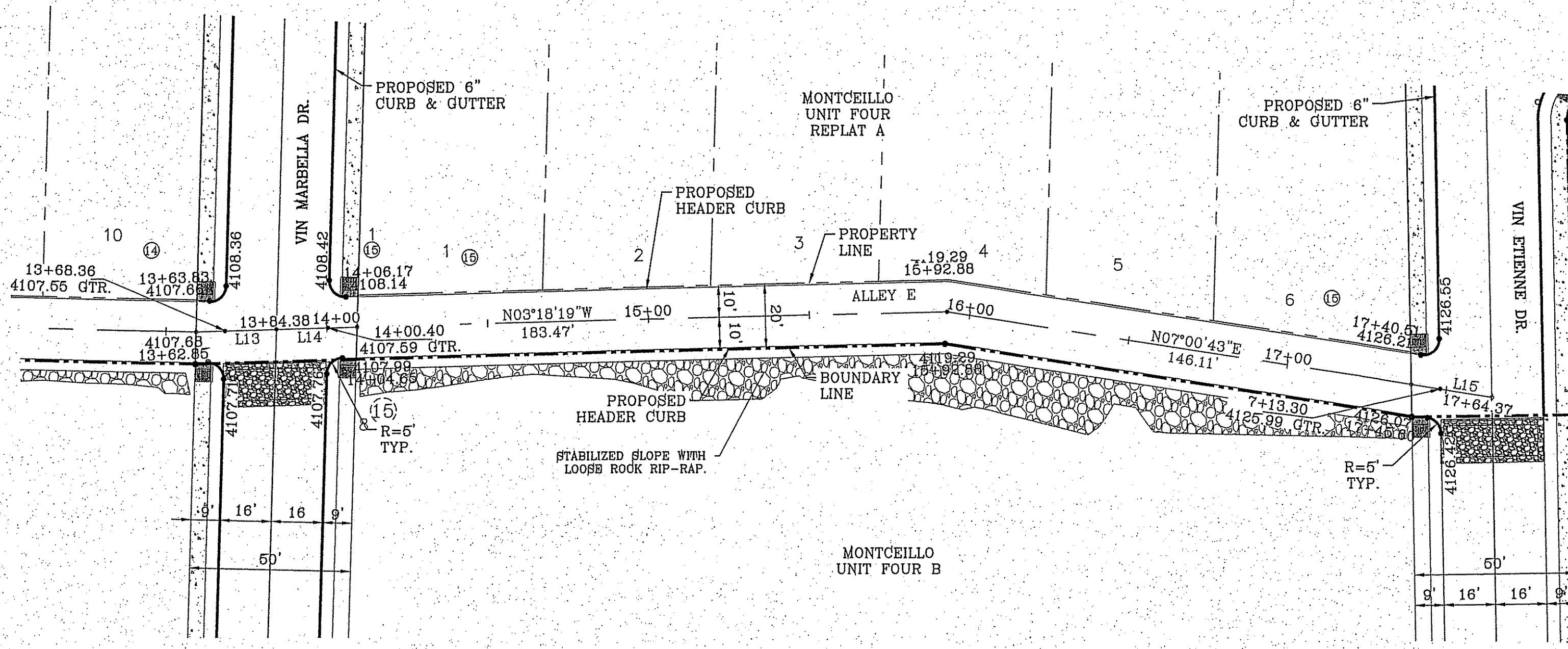
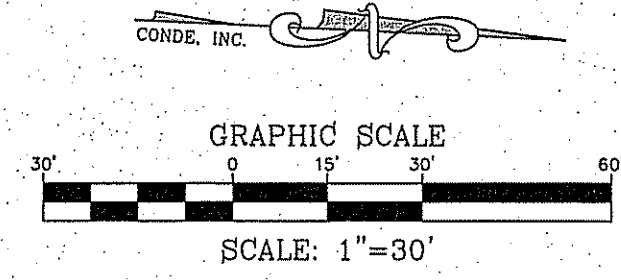
ALLEY C
ALLEY D



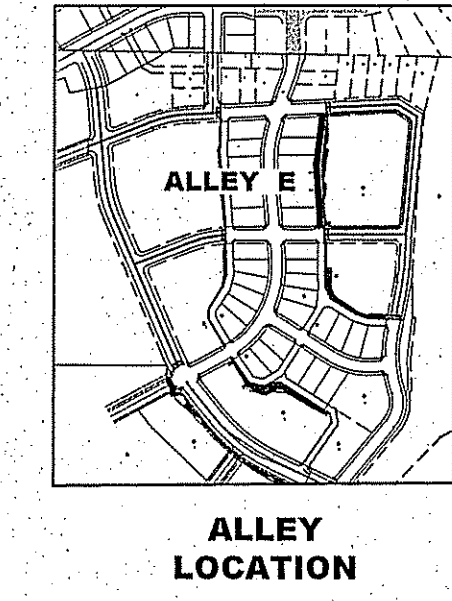
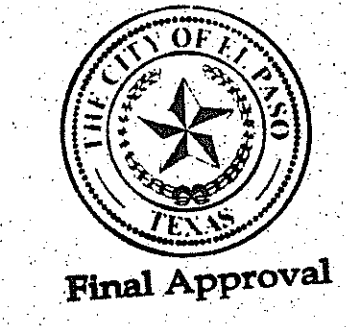
NOTES:

1. CONCRETE TO BE 3000 P.S.I. MINIMUM.
2. DUMMY JOINT REQUIRED AT 10' O.C. FOR HEADERS.
3. EXPANSION MATERIAL REQUIRED AT CURB RETURNS AND AT 20' O.C. FOR SIDEWALKS WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
4. EXPANSION JOINTS REQUIRED AT 60' O.C. WHEN FORMING FOR HEADERS.
5. EXPANSION JOINTS REQUIRED FOR SIDEWALK AT 20' O.C.
6. MINIMUM PAVEMENT VALUES ARE SHOWN. FINAL PAVEMENT VALUES AS PER CBR REPORT.

| LINE TABLE | |
|------------|-----------------------|
| LINE | BEARING |
| L13 | 25.034 N31°19'14.60"W |
| L14 | 25.034 N31°19'15.77"W |
| L15 | 25.381 N7°00'42.84"E |



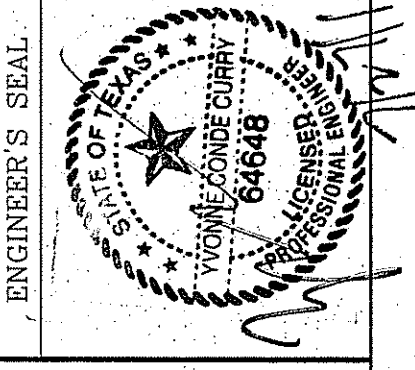
- NOTES:**
1. ALL WHEELCHAIR RAMPS BY DEVELOPER
 2. UNLESS OTHERWISE NOTED ALL 2:1 SLOPES SHALL BE STABILIZED WITH LOOSE ROCK RIP-RAP.



| | |
|------------|--|
| BENCHMARK | CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR. |
| ELEVATION: | 4137.81 (CITY DATUM) |
| BY | |
| REVISIONS | |
| DATE | 4-28-2015 |
| R.O. | NEW STREET SECTIONS |

PROJECT NAME
MONTECILLO UNIT FOUR "A"
 BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1, JOHN BARKER SURVEY 10, CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 10.058± ACRES

SCALE
 HORIZ: 1"=30'
 VERT: 1"=10'
 DATE: NOV. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 Dwg. NO.: 315-45

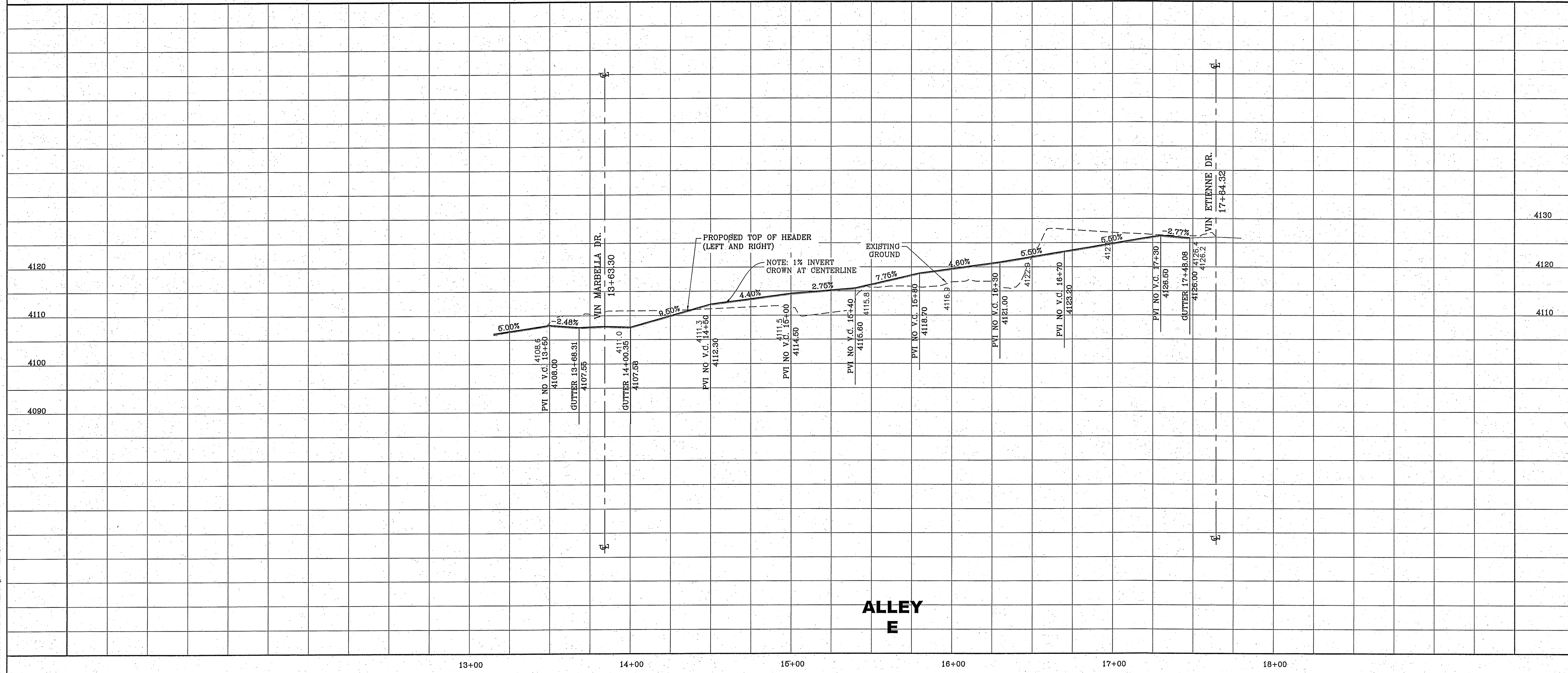


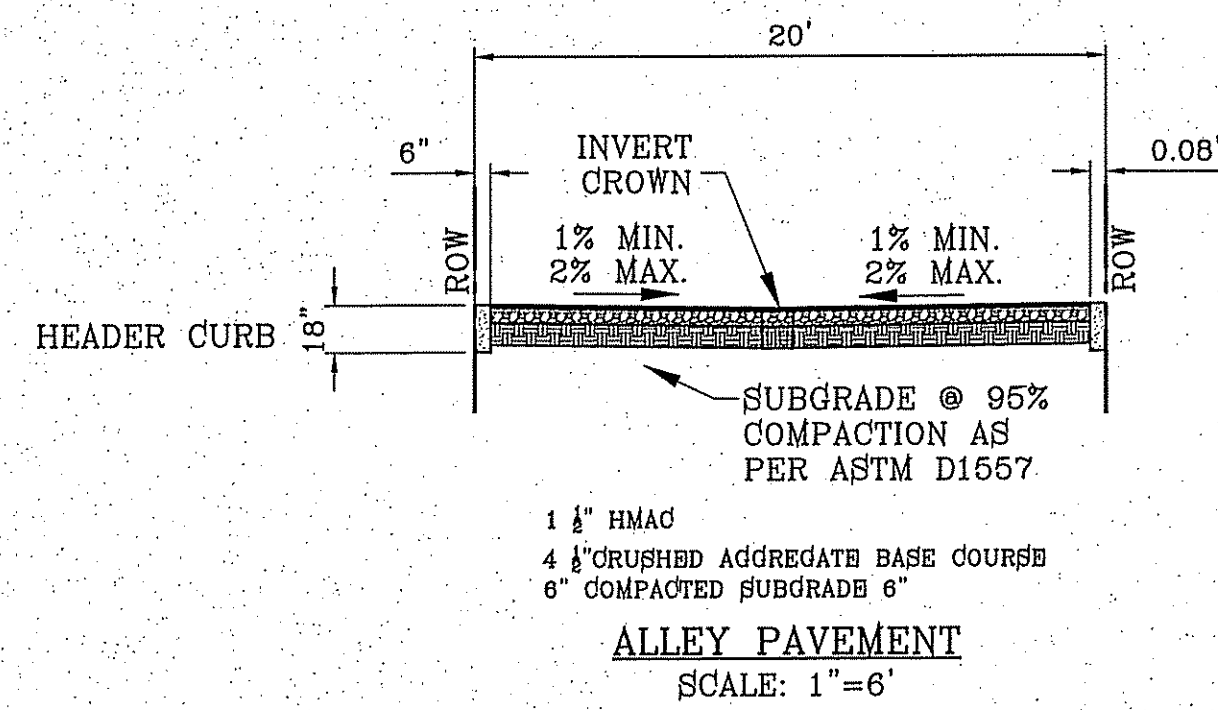
CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286



SHEET TITLE
 STREET
 PLAN-PROFILE
ALLEY E

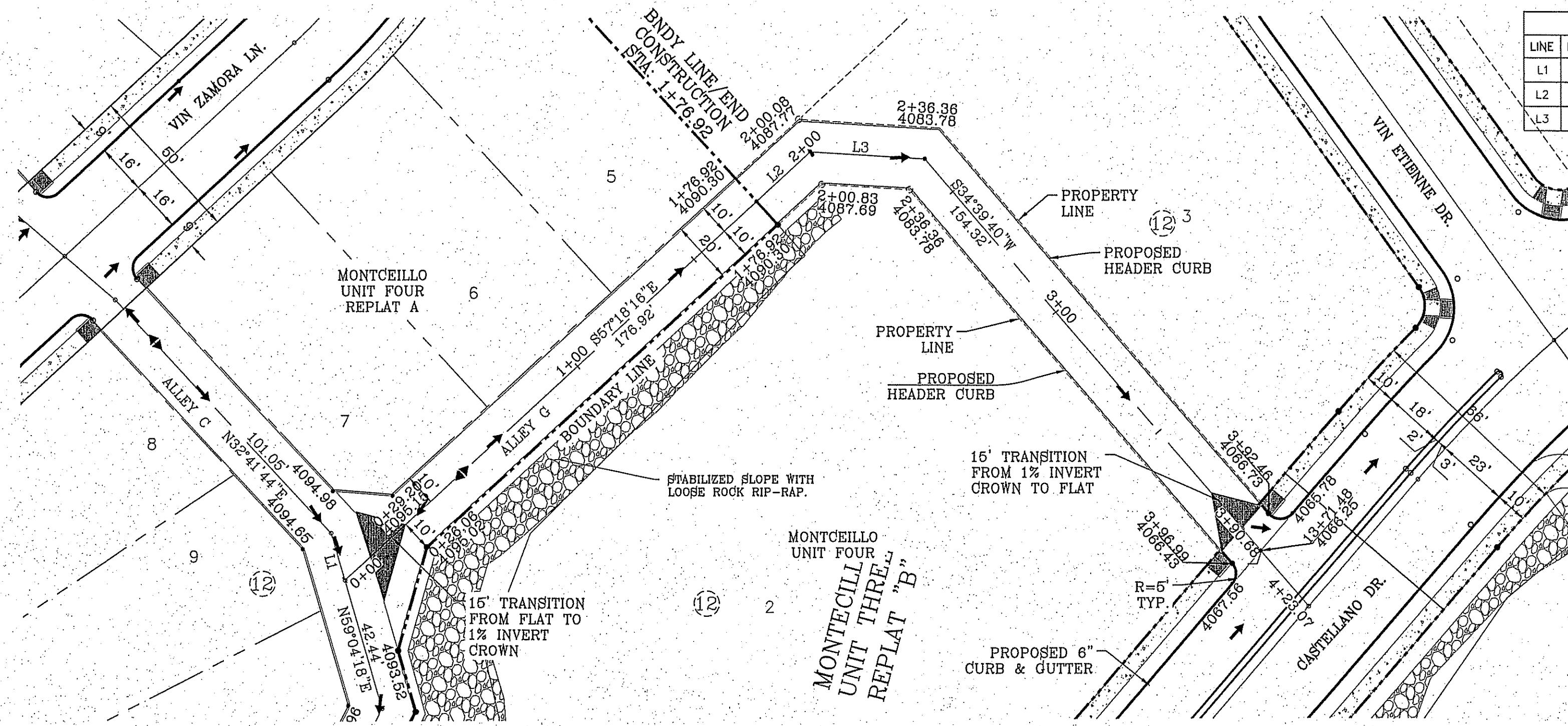
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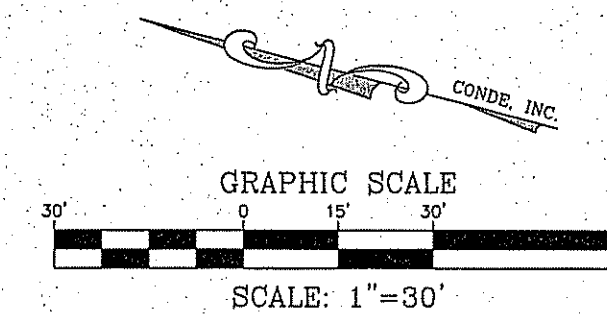


NOTES:

1. CONCRETE TO BE 3000 P.S.I. MINIMUM.
2. DUMMY JOINT REQUIRED AT 10' O.C. FOR HEADERS.
3. EXPANSION MATERIAL REQUIRED AT CURB RETURNS AND AT 20' O.C. FOR SIDEWALKS WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
4. EXPANSION JOINTS REQUIRED AT 60' O.C. WHEN FORMING FOR HEADERS.
5. EXPANSION JOINTS REQUIRED FOR SIDEWALK AT 20' O.C.
6. MINIMUM PAVEMENT VALUES ARE SHOWN. FINAL PAVEMENT VALUES AS PER CBR REPORT.

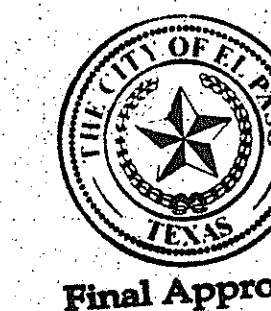
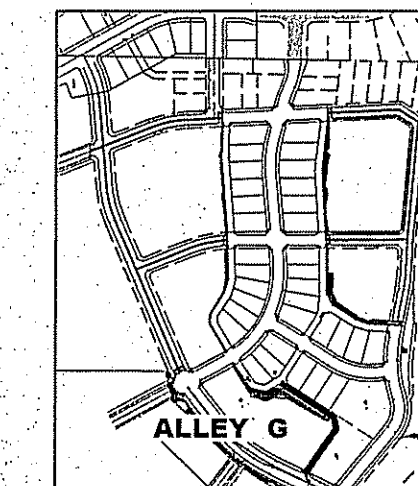


| V LINE TABLE | | |
|--------------|--------|----------------|
| LINE | LENGTH | BEARING |
| L1 | 15.570 | N59°04'17.86"E |
| L2 | 23.159 | S67°18'16.05"E |
| L3 | 36.281 | S11°19'17.87"E |

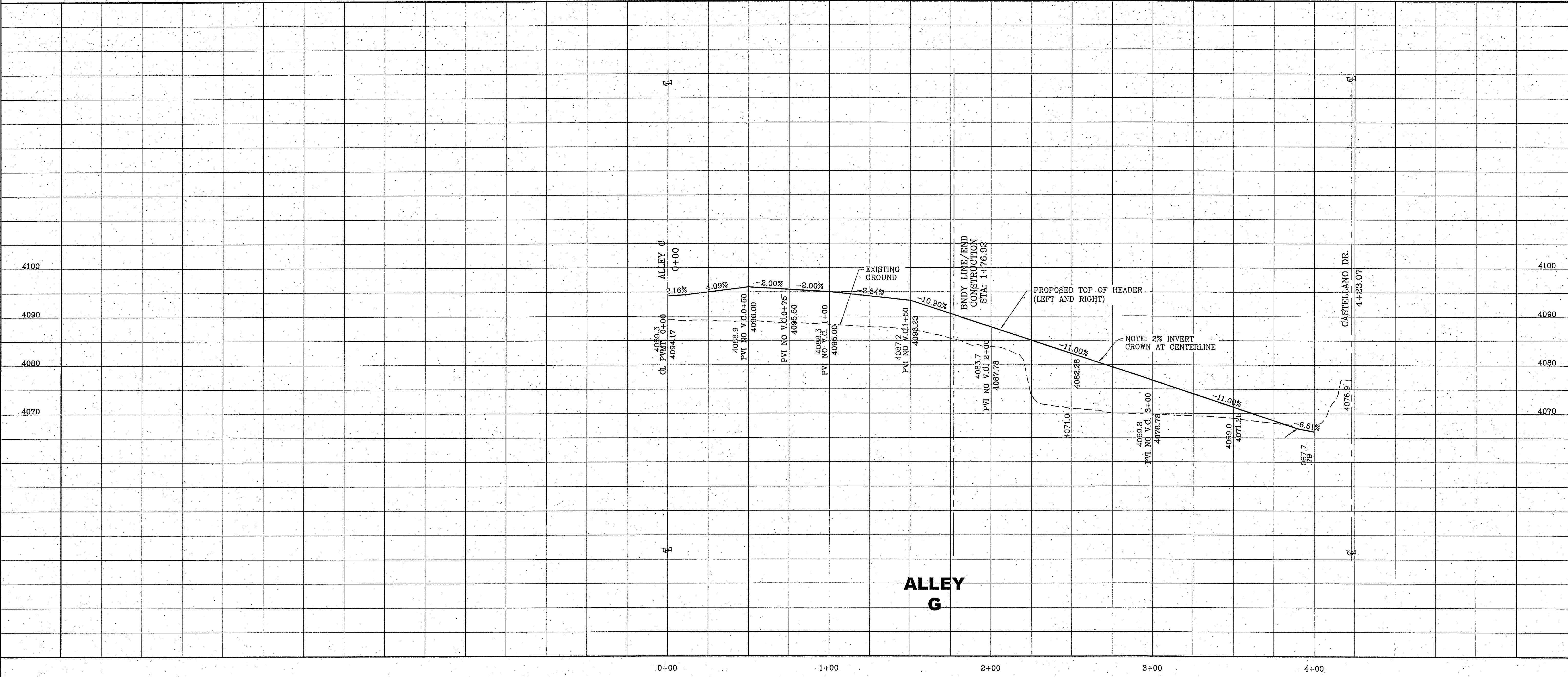


NOTES:

1. ALL WHEELCHAIR RAMPS BY DEVELOPER
2. UNLESS OTHERWISE NOTED ALL 2:1 SLOPES SHALL BE STABILIZED WITH LOOSE ROCK RIP-RAP.



Final Approval



ALLEY G

PROJECT NAME
MONTECILLO UNIT FOUR "A"

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR.
ELEVATION: 4137.61 (CITY DATUM)

DATE
4-28-2015

BY
NEW STREET SECTIONS

R.O.

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

DATE
NOV. 2013

DESIGN BY
Y.C.

INITIATED BY
R.O.

CHECKED BY
Y.C.

JOB NO.
315-45

ENGINEER'S SEAL

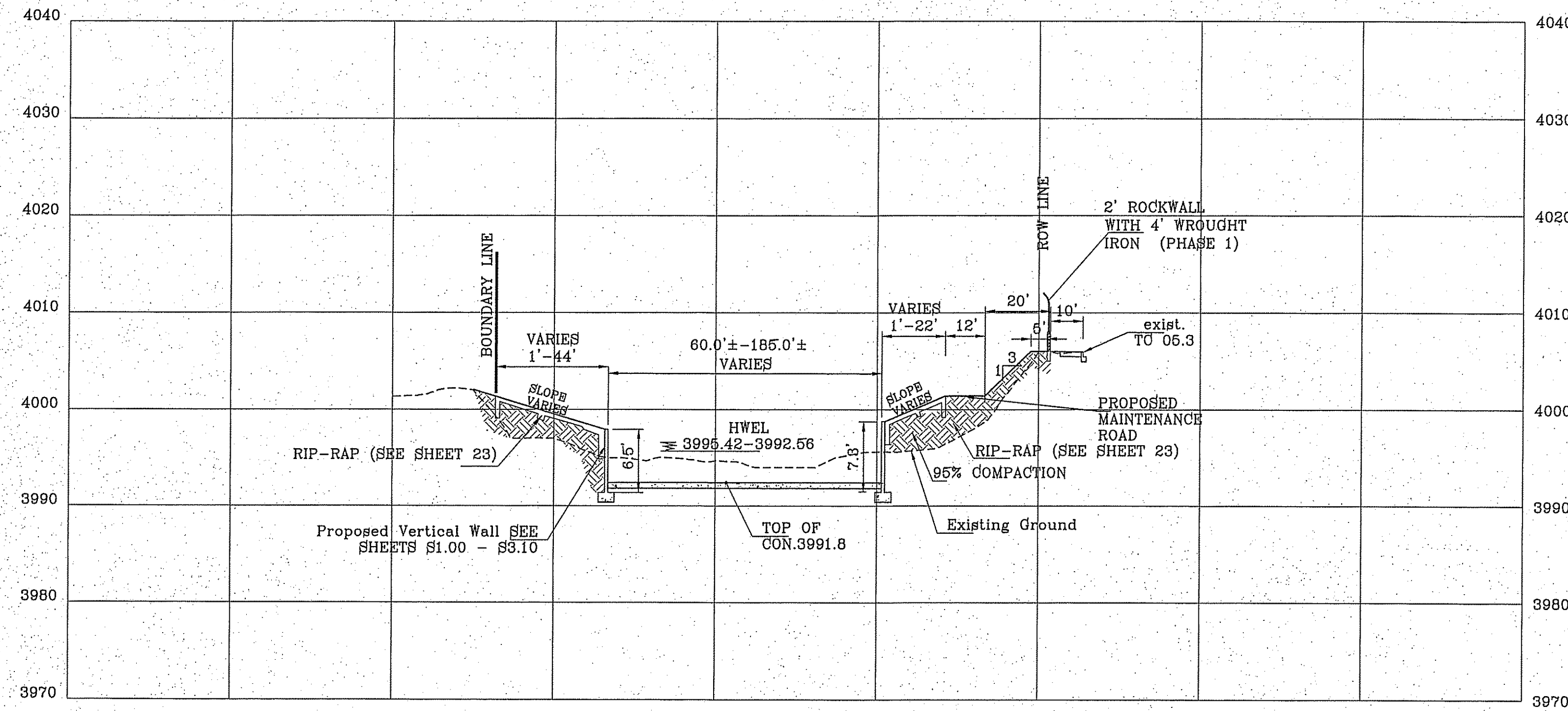
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. SITE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286

SHEET TITLE
STREET PLAN-PROFILE

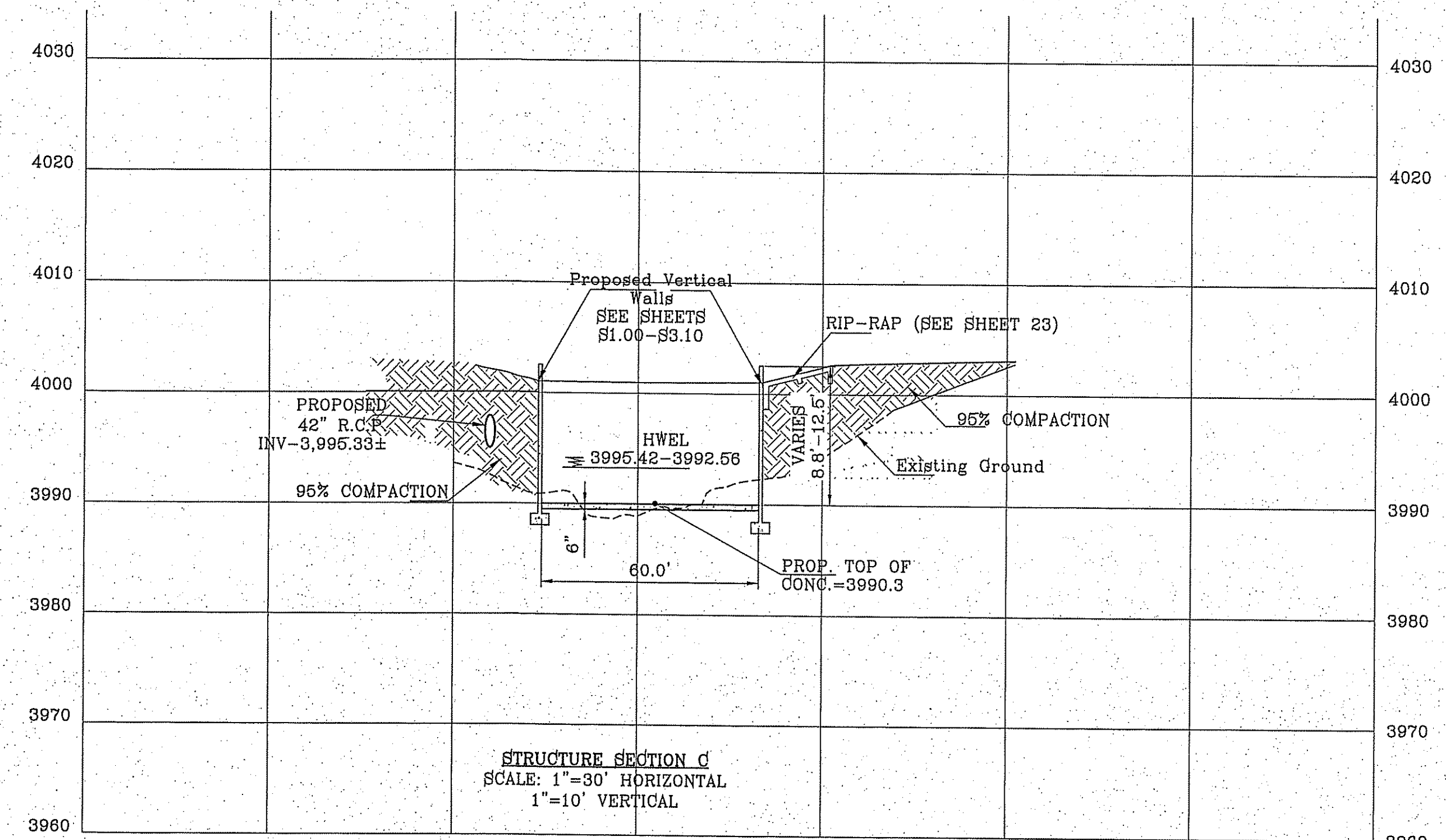
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SHEET 22 OF 41

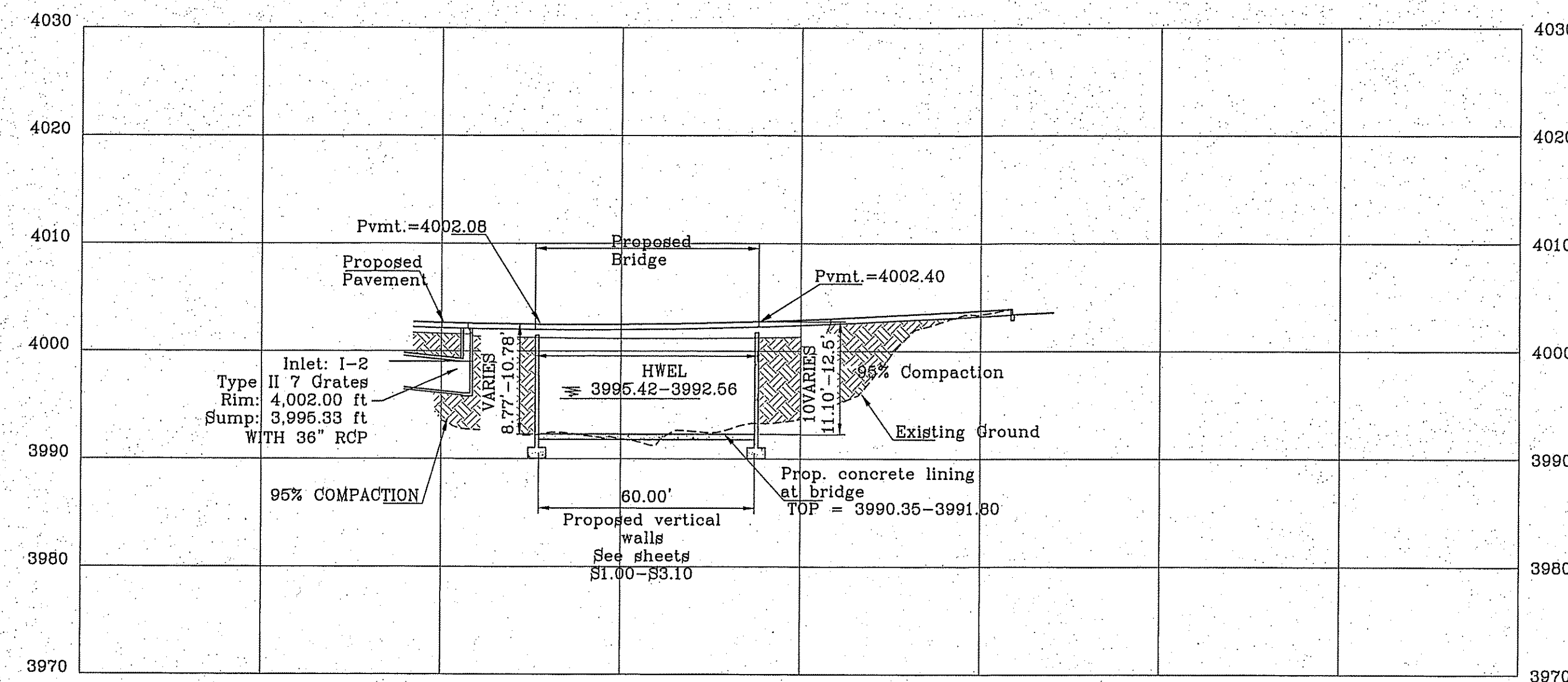
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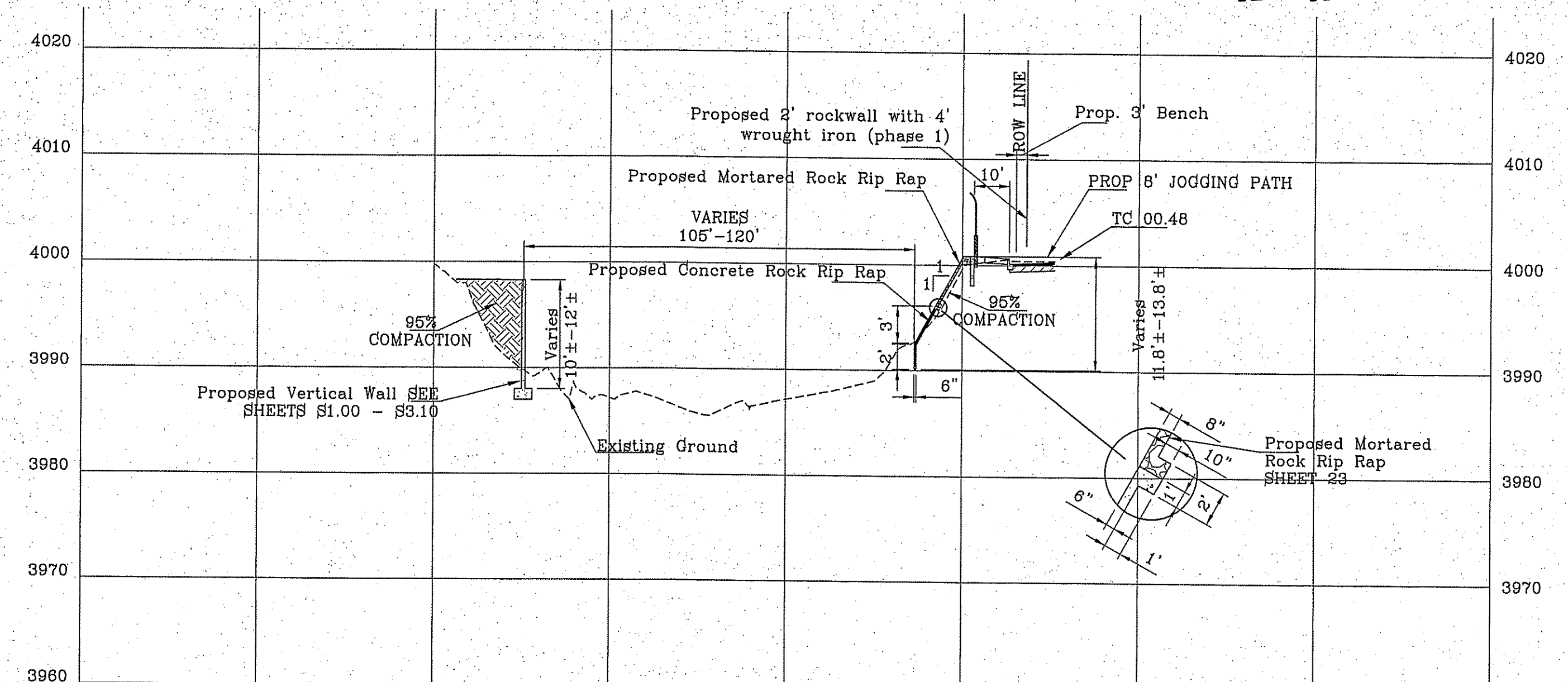
STRUCTURE SECTION A
SCALE: 1"=30' HORIZONTAL
1"=10' VERTICAL



STRUCTURE SECTION C
SCALE: 1"=30' HORIZONTAL
1"=10' VERTICAL



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



STRUCTURE SECTION E
SCALE: 1"=30' HORIZONTAL
1"=10' VERTICAL

FOR BRIDGE DETAILS AND SPECS
SEE SHEETS S1.00-S3.10

CONSTRUCTION NOTES:

1. ALL CONCRETE FOR STRUCTURES SHALL BE 4000 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.

NOTE:

UNLESS OTHERWISE NOTED ALL 2:1 SLOPES SHALL BE STABILIZED WITH LOOSE ROCK RIP-RAP.



| | |
|-----------|--|
| BENCHMARK | CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR. ELEVATION: 4137.81 (CITY DATUM) |
| DATE | 8-5-2014 |
| BY | CITY REDS - ST. NAME CHANGE - MISC. |
| R.O. | 4-28-2015 |
| R.O. | RIP-RAP AT SECTIONS A AND C |

PROJECT NAME
MONTECILLO UNIT FOUR "A"
BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1, JOHN BARKER SURVEY 10, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 10.068± ACRES

| | |
|-------------|---------------|
| SCALE | HORIZ: 1"=30' |
| VERT: | 1"=10' |
| DATE | NOV. 2013 |
| DESIGN BY | Y.C. |
| ANTHATED BY | Y.C. |
| CHECKED BY | Y.C. |
| JOB NO. | 315-45 |

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 | BRIDGE SECTIONS |
| SHT | 24 OF 41 |

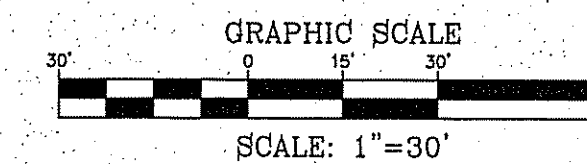
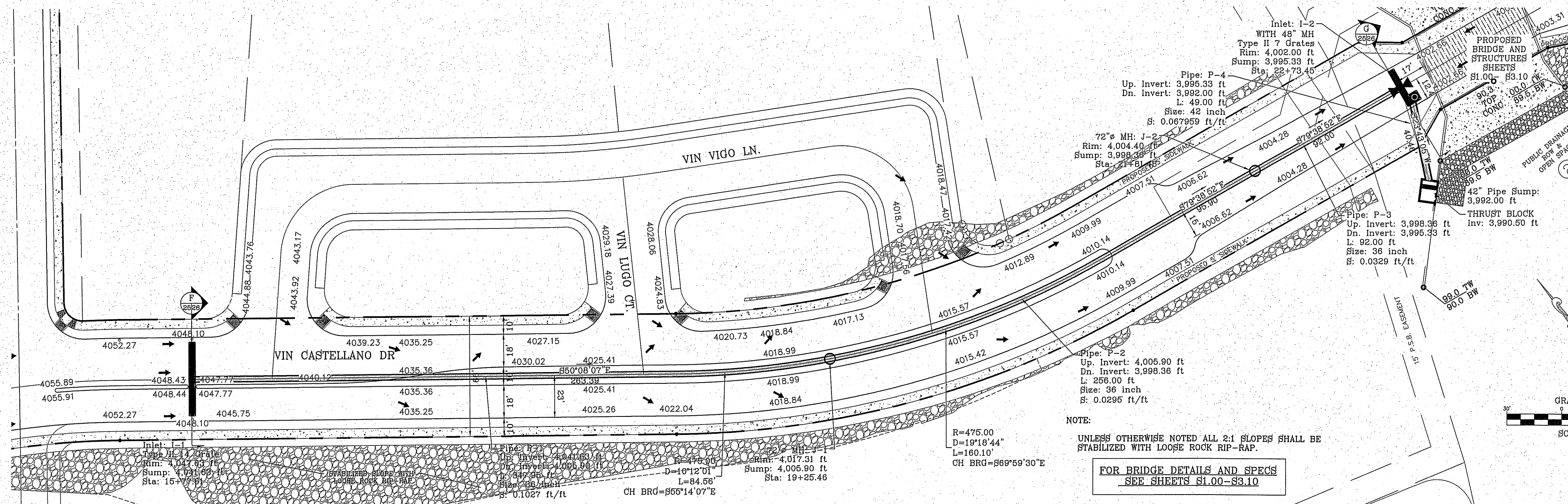
| STRUCTURE #1 INLET DATA | | | | | |
|-------------------------|------------|------------|--------------------------|---------------------------|--------------------|
| INLET No. | INLET TYPE | No. GRATES | Q _{d50} yr. cfs | Q _{d100} yr. cfs | Q _c cfs |
| 1-1 | II | 14 | 35.80 | 45.95 | 110.6 |
| 1-2 | II | 7 | 33.89 | 37.71 | 55.30 |

R.C.P. PIPE DATA (100 Year Storm Calcs.)

| PIPE | SECTION | LENGTH (ft) | SLOPE (ft/ft) | DISCHARGE (cfs) | CAPACITY (cfs) | AVERAGE VELOCITY (fps) | DOWN STREAM GROUND | DOWN STREAM HGL | DOWN STREAM INVERT | UPSTREAM GROUND | UPSTREAM HGL | UPSTREAM INVERT |
|------|---------|-------------|---------------|-----------------|----------------|------------------------|--------------------|-----------------|--------------------|-----------------|--------------|-----------------|
| P-1 | 36 | 347.95 | 0.1027 | 45.95 | 213.72 | 7.48 | 4017.31 | 4008.71 | 4005.90 | 4047.63 | 4043.84 | 4041.63 |
| P-2 | 36 | 256 | 0.0295 | 45.95 | 114.46 | 11.77 | 4004.40 | 4000.67 | 3998.36 | 4017.31 | 4008.11 | 4006.90 |
| P-3 | 36 | 92.00 | 0.0329 | 45.95 | 121.04 | 7.43 | 4002.00 | 3998.18 | 3995.33 | 4004.40 | 4000.57 | 3998.36 |
| P-4 | 42 | 49.00 | 0.0680 | 83.66 | 262.27 | 13.98 | 3998.00 | 3993.70 | 3992.00 | 4002.00 | 3998.18 | 3995.33 |

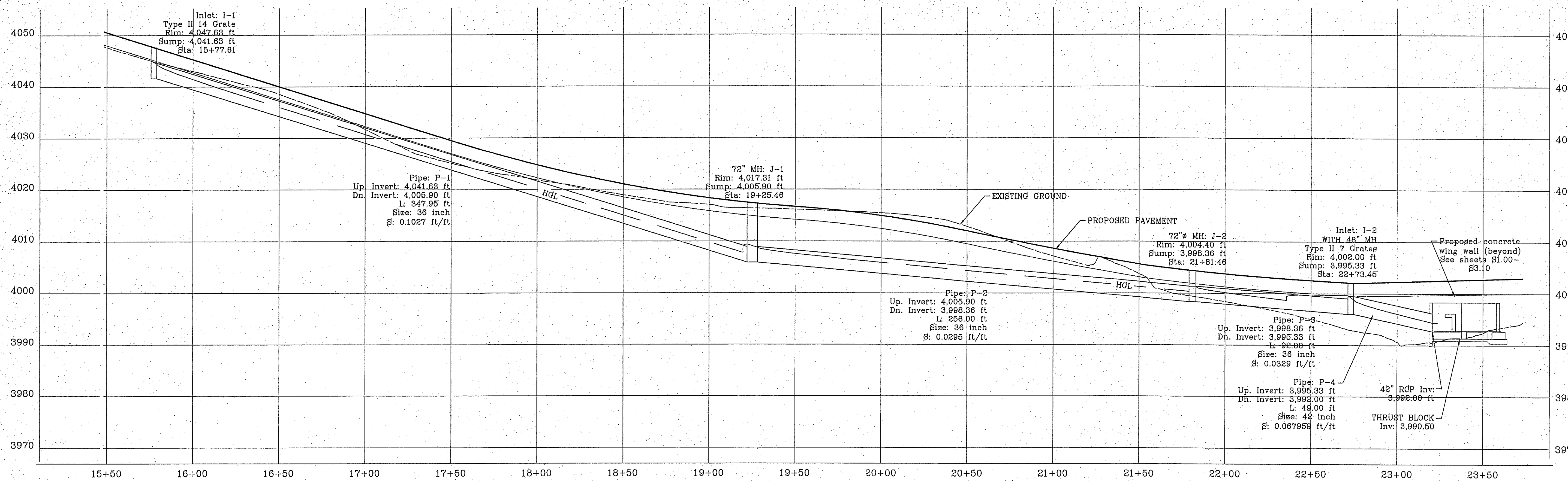


Final Approval



NOTE: UNLESS OTHERWISE NOTED ALL 2:1 SLOPES SHALL BE STABILIZED WITH LOOSE ROCK RIP-RAP.

FOR BRIDGE DETAILS AND SPECS SEE SHEETS S1.00-S3.10



BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR. ELEVATION: 4137.61 (CITY DATUM)

PROJECT NAME: MONTECILLO UNIT FOUR "A"

REVISIONS: DATE 8-5-2014 BY CITY REDS - ST. NAME CHANGE - MISC. R.O. 4-28-2015 NEW STREET SECTIONS

BRING A REPEAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPEAT "B" AND PORTION OF TRACT 1, JOHN BARKER SURVEY 10, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 10.056± ACRES

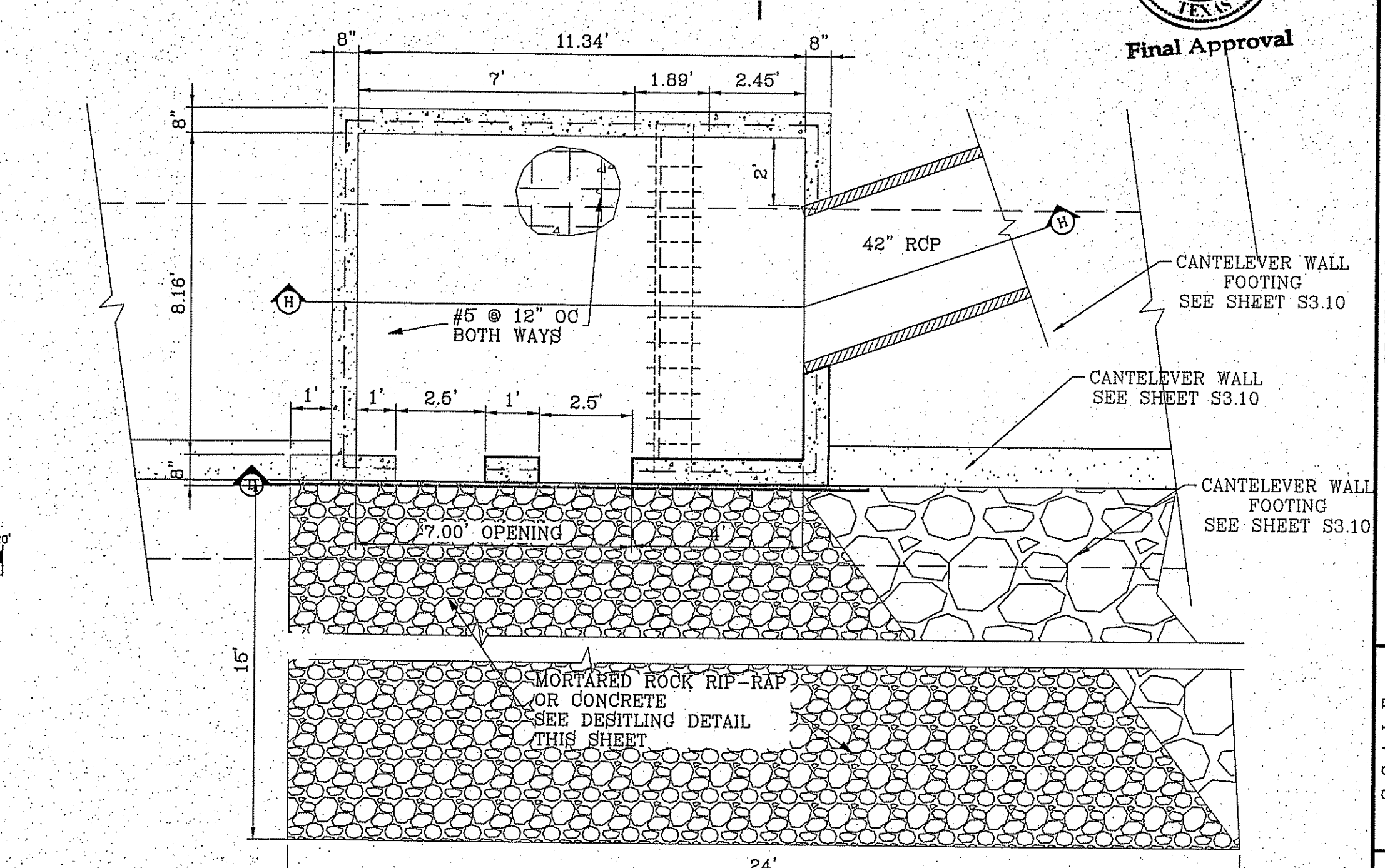
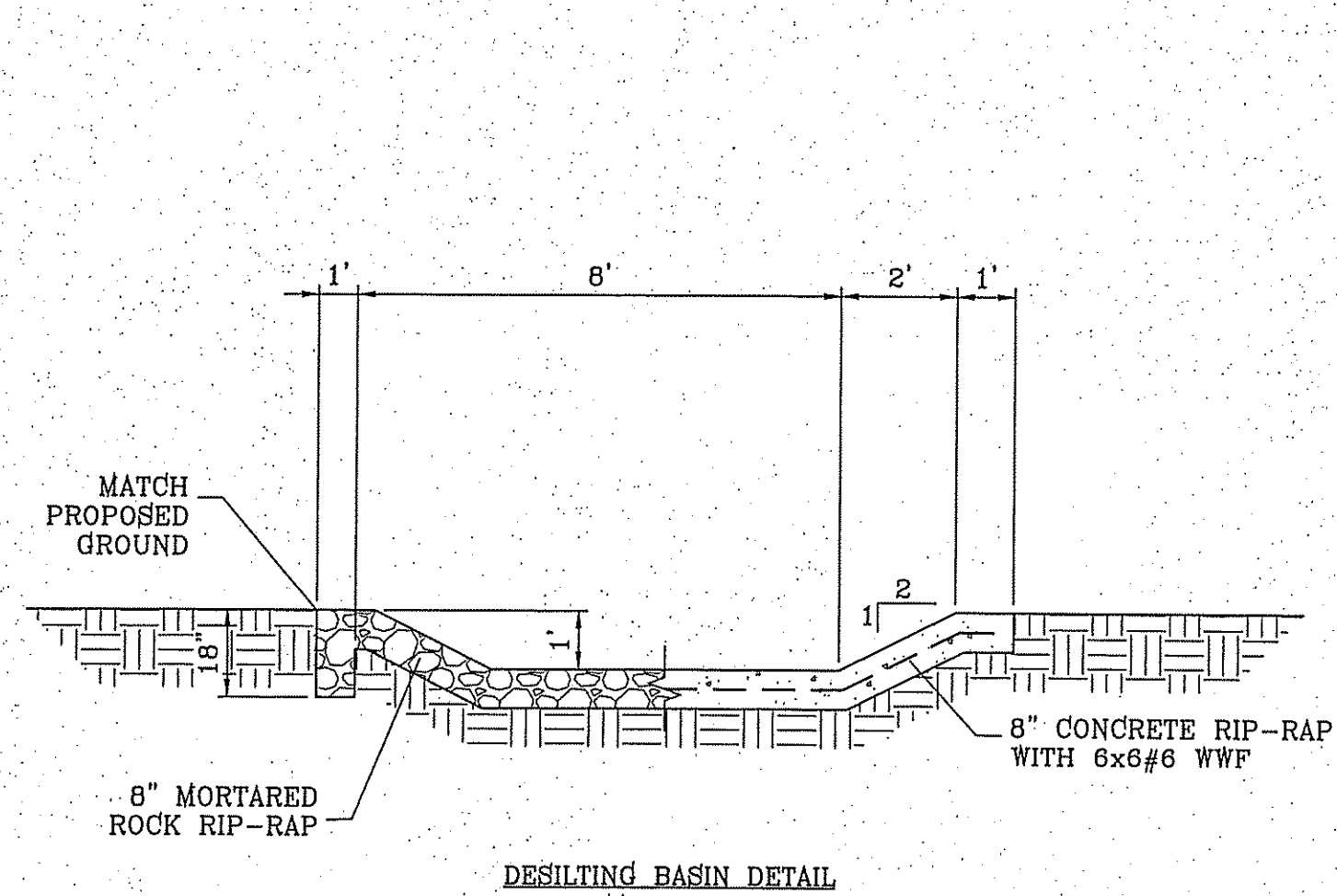
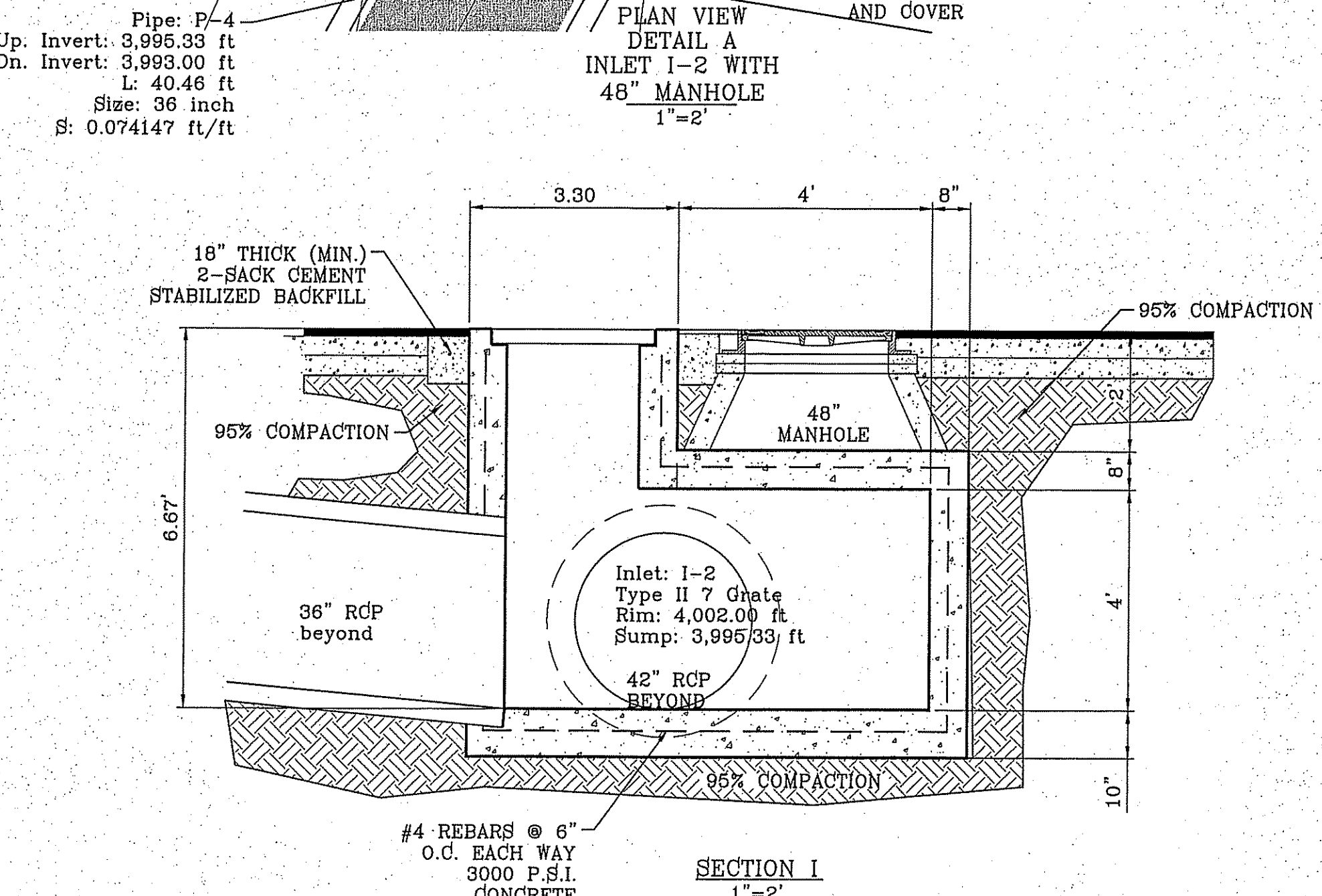
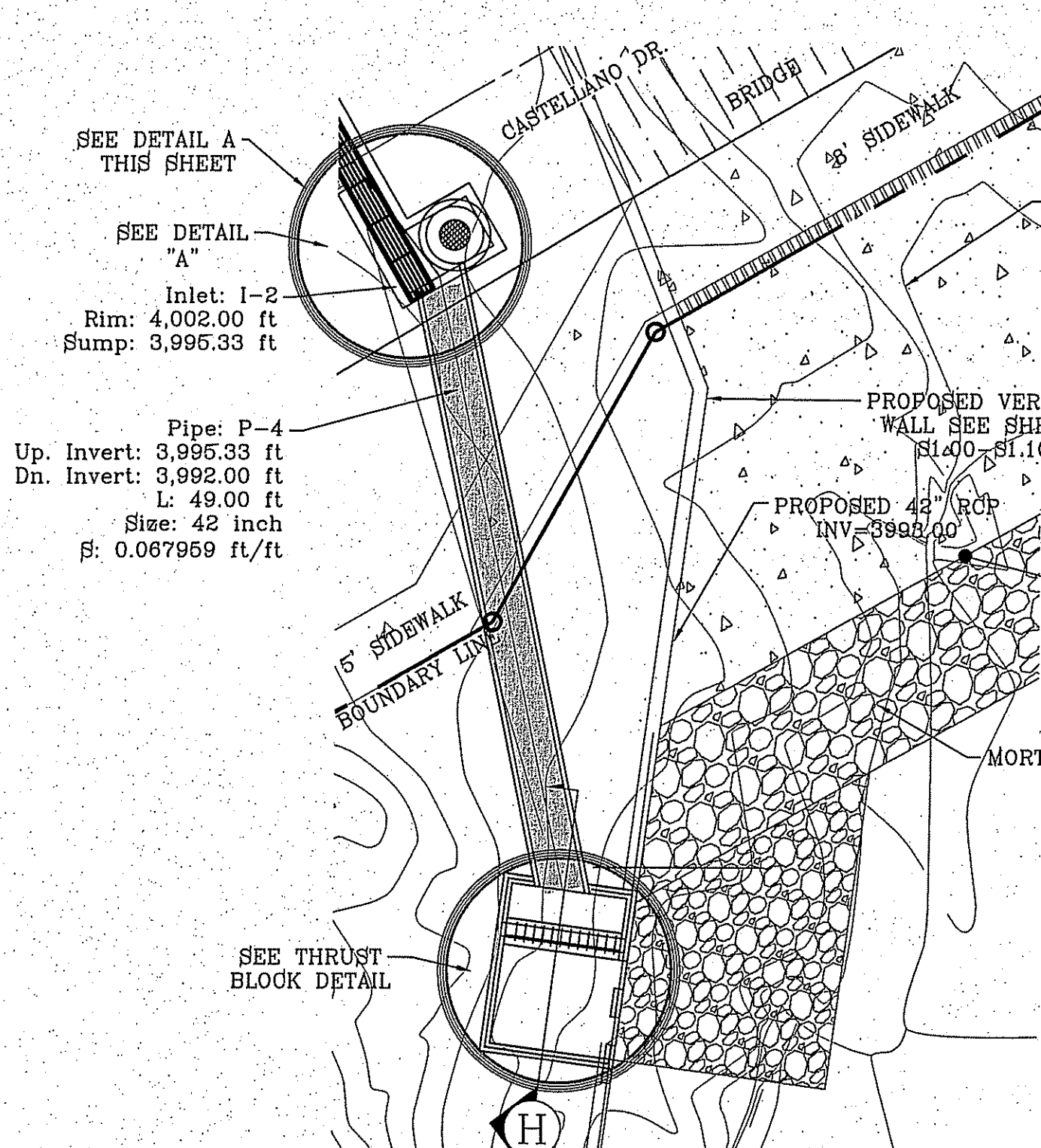
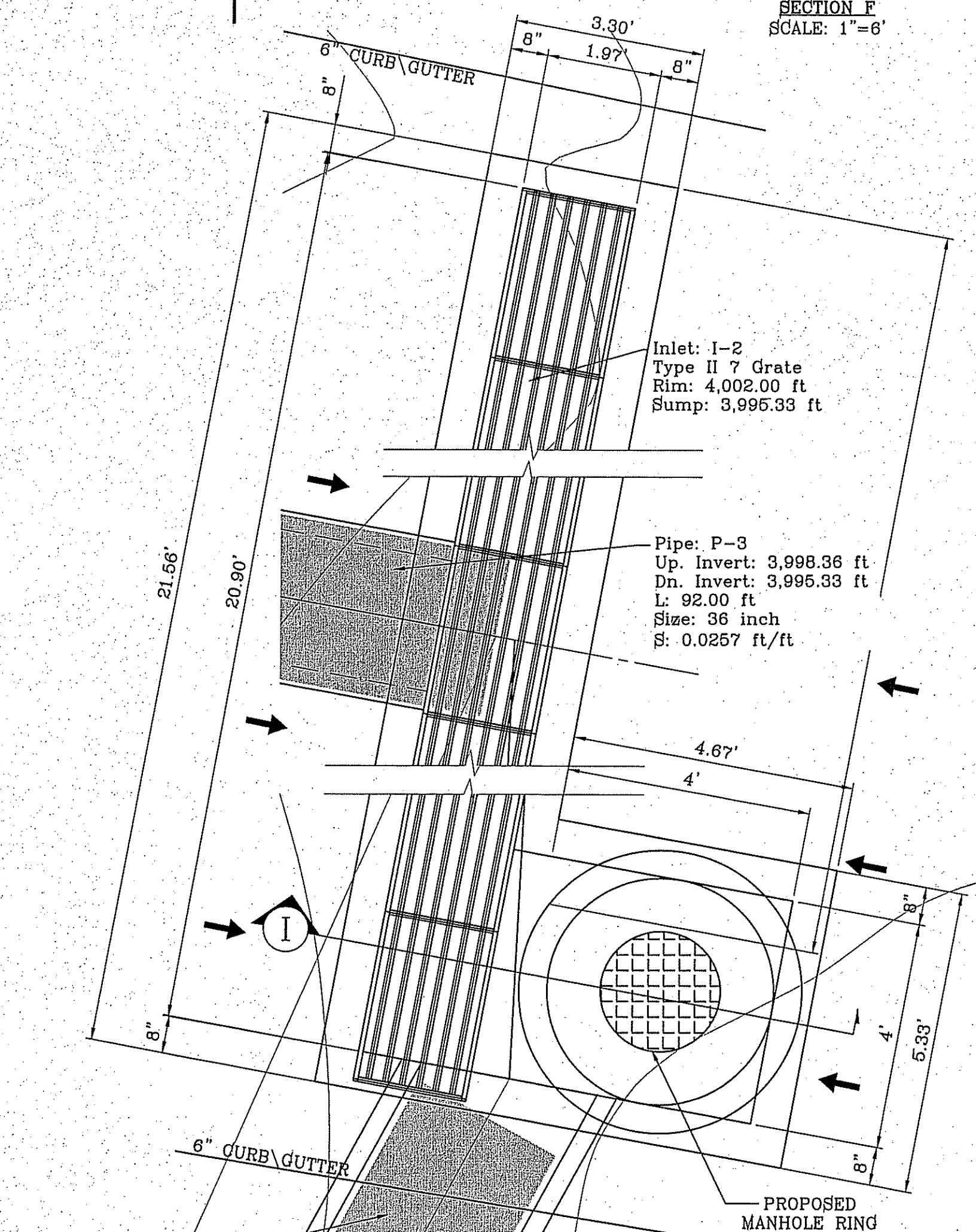
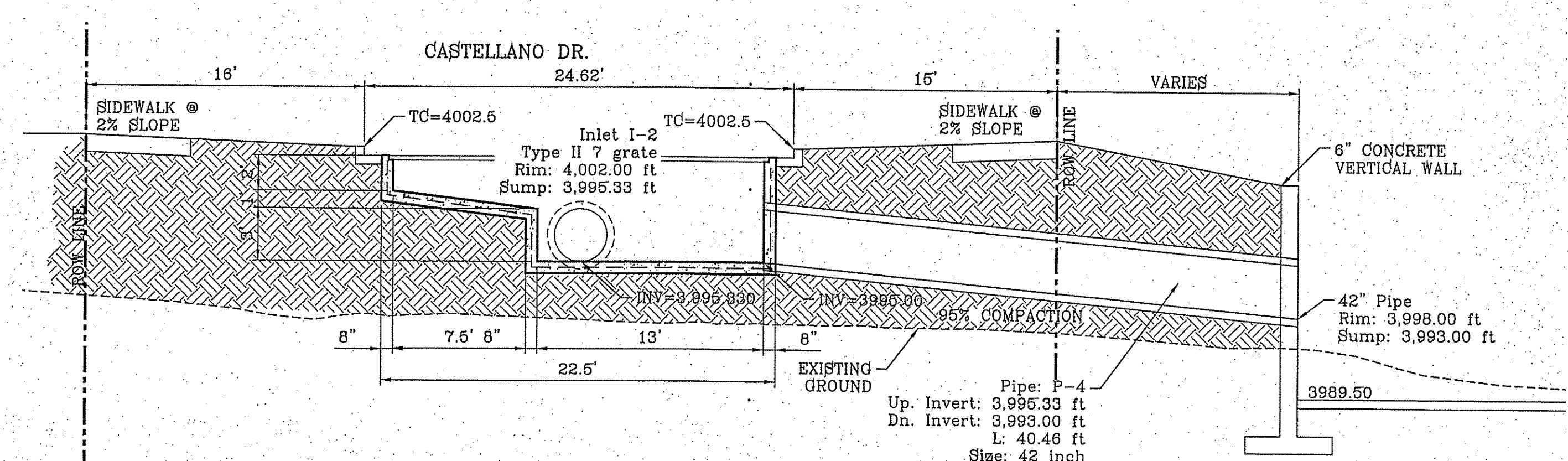
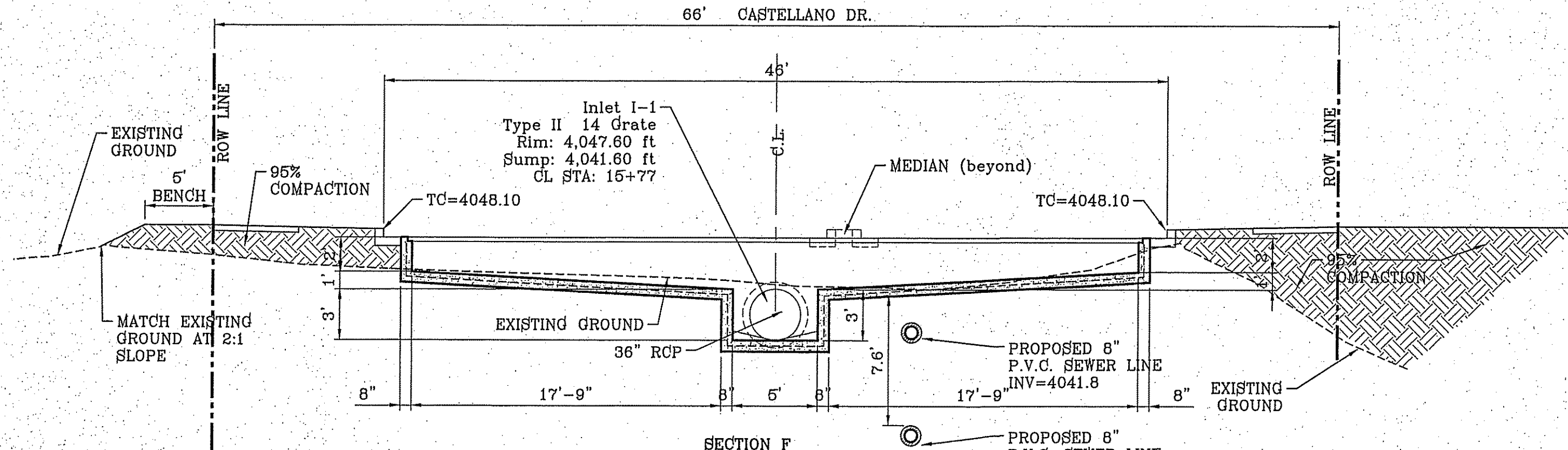
SCALE: HORIZ: 1"=30' VERT: 1"=10' DATE: NOV. 2013 DESIGN BY: Y.C. INITIATED BY: R.O. CHECKED BY: Y.C. JOB NO.: 316-45

CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 8080 SURETY DR. STE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286

SHEET TITLE: STRUCTURE #1

SHT 25 OF 41

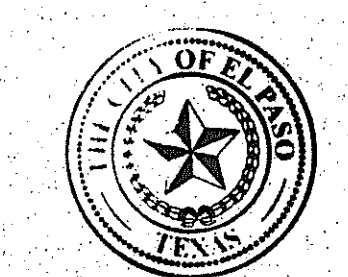
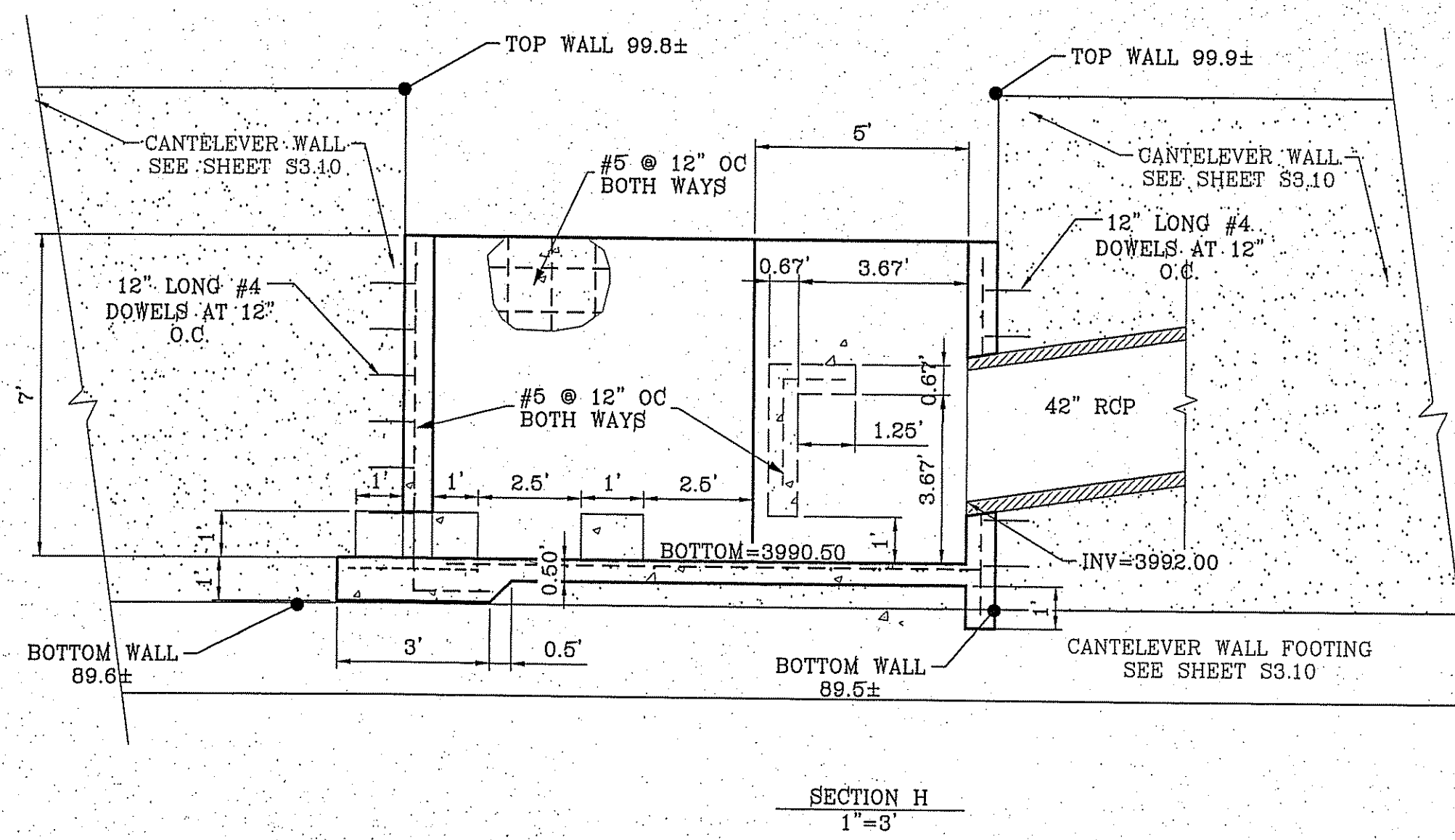
66' CASTELLANO DR.



CONSTRUCTION NOTES:

1. ALL CONCRETE FOR STRUCTURES SHALL BE 3600 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.

NOTE:
UNLESS OTHERWISE NOTED ALL 2:1 SLOPES SHALL BE STABILIZED WITH LOOSE ROCK RIP-RAP.

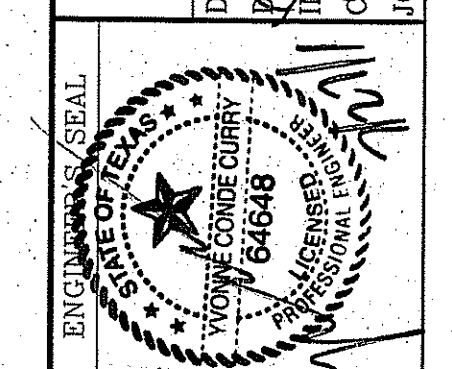


Final Approval

| | |
|-----------|---|
| BENCHMARK | CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR. ELEVATION: 4137.61 (CITY DATUM). |
| DATE | 9-5-2014 |
| BY | JOHN BARKER SURVEY 10, CITY REVIS - ST. NAME CHANGE - MISC. SECTION REV. R.O. |
| REVISIONS | NEW STREET SECTIONS |
| R.O. | |

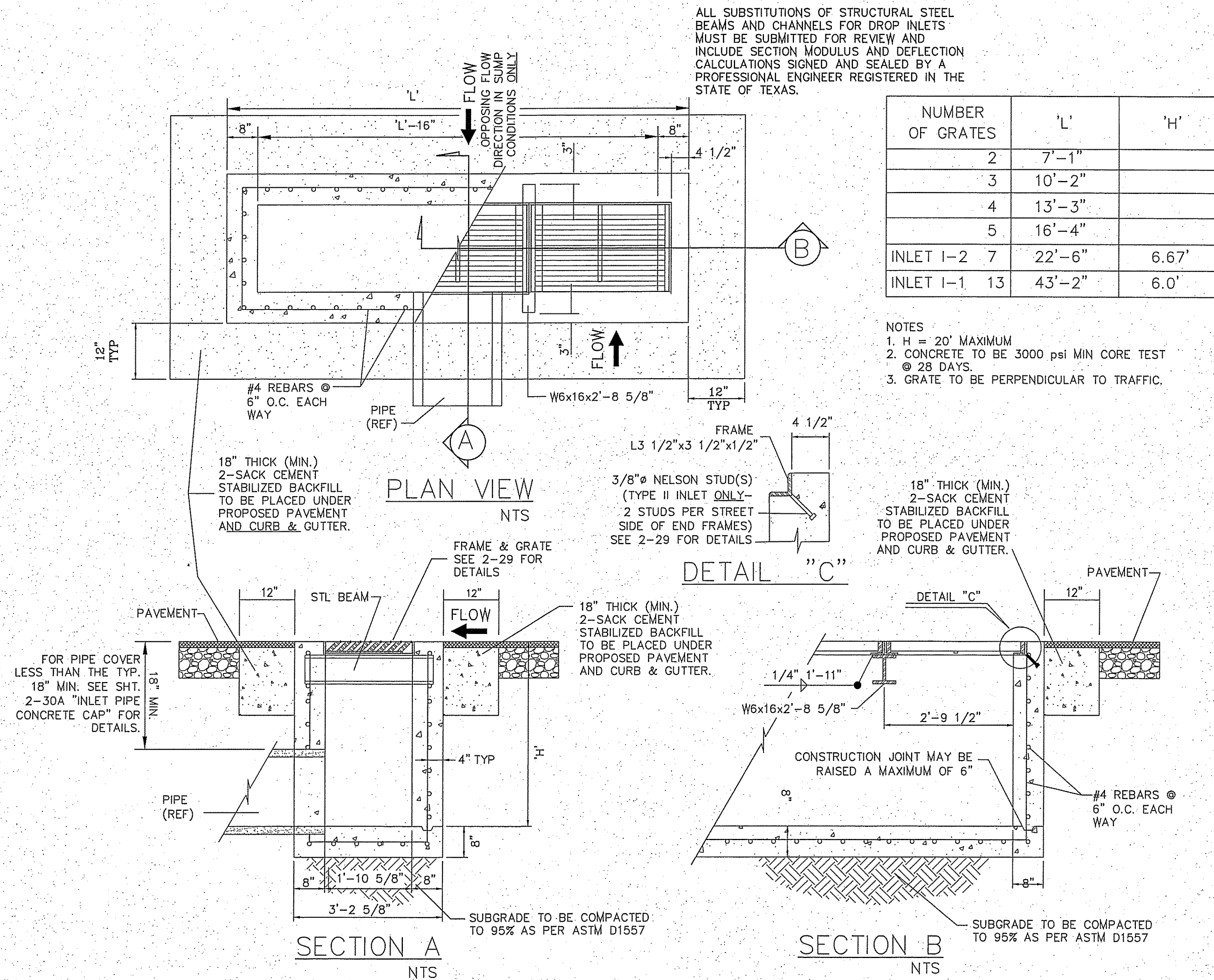
PROJECT NAME
MONTECILLO UNIT FOUR "A"
BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1, JOHN BARKER SURVEY 10, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 10.068± ACRES

| | |
|---------------------|-----------------|
| SCALE | HORIZ: AS SHOWN |
| | VERT: --- |
| DATE | NOV. 2013 |
| DESIGN BY | Y.C. |
| INITIATED BY | R.O. |
| CHECKED BY | Y.C. |
| JOB NO. | 315-46 |



CONDE INC.
ENGINEERING / PLANNING / SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0293
FAX: (915) 592-0286

SHEET TITLE
STRUCTURE SECTIONS



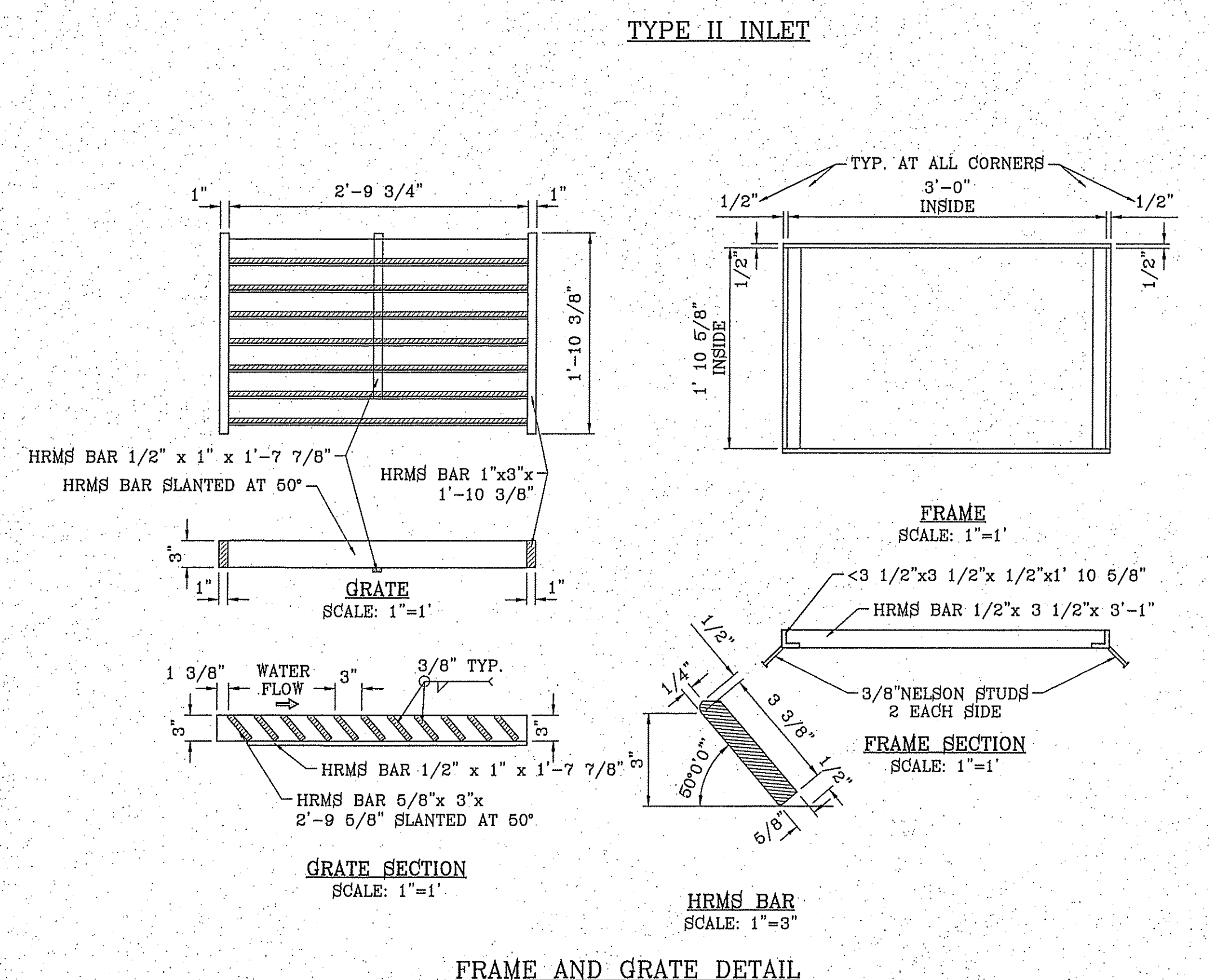
ALL SUBSTITUTIONS OF STRUCTURAL STEEL BEAMS AND CHANNELS FOR DROP INLETS MUST BE SUBMITTED FOR REVIEW AND INCLUDE SECTION MODULUS AND DEFLECTION CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS.

| NUMBER OF GRATES | 'L' | 'H' |
|------------------|--------|-------|
| 2 | 7'-1" | |
| 3 | 10'-2" | |
| 4 | 13'-3" | |
| 5 | 16'-4" | |
| INLET I-2 | 22'-6" | 6.67' |
| INLET I-1 | 43'-2" | 6.0' |

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

GENERAL NOTES:

- CONCRETE TO BE 3000 P.S.I. MINIMUM CORE TEST AT 28 DAYS.
- WELDED STEEL OR CAST GRATES AS DETAILED ARE ALL ACCEPTABLE GRATES. MIXING OF ALTERNATE TYPES OF GRATES ON THE SAME PROJECT WILL BE PERMITTED WITH THE APPROVAL OF THE CITY ENGINEER.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS.
- SHARP EDGES RESULTING FROM FABRICATION SHALL BE DULLED ONLY BY ACCEPTABLE METHODS FOR SAFETY.
- GRATES SHALL BE INSTALLED IN FRAME WITH FLOW ARROW POINTING DOWNSTREAM OR TOWARD THE LOW POINT IN A SUMP.
- WELDED GRATES SHALL BE STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-161 OR M-222 OR BE MADE OF OTHER APPROVED STEELS OF EQUAL QUALITY. MIXING OF GRADES OF STEEL ON THE SAME GRATE WILL NOT BE PERMITTED.
- GRATES MADE OF M-183 STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-111 SPECIFICATIONS OR SHALL BE PAINTED WITH INORGANIC ZINC PAINTS, MEETING THE REQUIREMENTS OF CURRENT STANDARD SPECIFICATIONS.
- ALL WELDS SHALL BE A MINIMUM OF 1/4 INCH FILLED AND SHALL CONFORM TO THE SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND TO THE AWS STRUCTURAL WELDING CODES. ELECTRODES SHALL BE COMPATIBLE TO THE DIFFERENT GRADES OF STEEL THAT COMPRISE THE GRATE MEMBERS.
- CAST GRATES SHALL BE CAST STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-103, GRADE 65-35 OR OF DUCTILE IRON CONFORMING TO THE REQUIREMENTS OF ASTM A-536, SPECIAL GRADES 60-45, OR OF GRAY IRON CONFORMING TO THE REQUIREMENTS OF AASHTO M-105, CLASS 35B OR ASTM A-48 CLASS 35B, THIS SPECIFICATION OF GENERAL APPLICATION FOR CAST STEEL GRATES SHALL BE AASHTO M-103, SCOPE 121, GRADE N-1.
- FERROUS CASTINGS SHALL BE OF UNIFORM QUALITY FREE OF BLOW-HOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTION OR OTHER DEFECTS. THEY SHALL BE SMOOTH AND WELL CLEANED BY SHOT BLASTING OR OTHER APPROVED CLEANING METHOD. AFTER CLEANING THEY SHALL BE COATED WITH ASPHALT BASE PAINT RESULTING IN A SMOOTH COATING, TOUGH AND TENACIOUS WHEN COLD, NOT TACKY, NOT BRITTLE.
- ALL CASTING SHALL BE MANUFACTURED TRUE TO PATTERN. COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER.
- GRATE WILL BE DEPRESSED 1 INCH BELOW PROPOSED OR EXISTING GRADE.
- TWO 1/2 INCH X 4 INCH LONG CONCRETE ANCHOR STUDS REQUIRED FOR EACH SIDE OF FRAME, WHERE FRAME IS RESTING ON CONCRETE. USE NELSON STUDS OR EQUAL.
- THE GRATES OF ALL INLETS WITHIN THE STREET PAVEMENT MUST BE CONSTRUCTED WITH THE GRATE BARS PERPENDICULAR TO THE CURB.
- CHAMFER ALL EXPOSED EDGES 3/4 INCH. ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
- ALL CONCRETE TO BE 3000 P.S.I. MINIMUM CONCRETE COVER SHALL BE 2 INCH FOR STEEL REINFORCING.
- EXPANSION MATERIAL TO BE 1/2 INCH BITUMINOUS FIBER AND BE PLACED WHERE PROPOSED CONCRETE COMES IN CONTACT WITH ANY EXISTING OR PROPOSED CONCRETE OR MASONRY STRUCTURE.
- STRUCTURAL STEEL SHALL BE SHOP PAINTED IN ACCORDANCE WITH T.H.D. ITEM 446 "PAINT AND PAINTING".
- ALL REINFORCING BARS TO BE #4 BARS AT 6" O.C. GRADE 60. BEND BARS AROUND PIPE OPENINGS.
- SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM IN SLOPED AND GRADE TO EXISTING OR PROPOSED CURB AND WALK ADJACENT TO INLETS.
- INLETS TO BE DESIGNATED IN PLANS BY NUMBER OF GRATES REQUIRED.
- LOCATION OF SEWER PIPES SHOWN ELSEWHERE IN PLANS.



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR. ELEVATION: 4137.81 (CITY DATUM)

| | | | |
|------|----------|----------------|------------------|
| DATE | 8-5-2014 | CITY REVISIONS | INLET DIMENSIONS |
| BY | | | |
| R.O. | | | |

PROJECT NAME

MONTECILLO UNIT FOUR "A"

BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1, JOHN BARKER SURVEY 10, EL PASO COUNTY, TEXAS CITY OF CONTAINING 10.6666 ACRES

S C A L E

| | |
|--------|--|
| HORIZ. | |
| VERT. | |

ENGINEER'S SEAL

ENGINEER'S SEAL NOT REQUIRED. HIS PRODUCE FROM CITY SUBDIVISION DESIGN STANDARDS

DATE: NOV. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 315-45

CONDE INC.

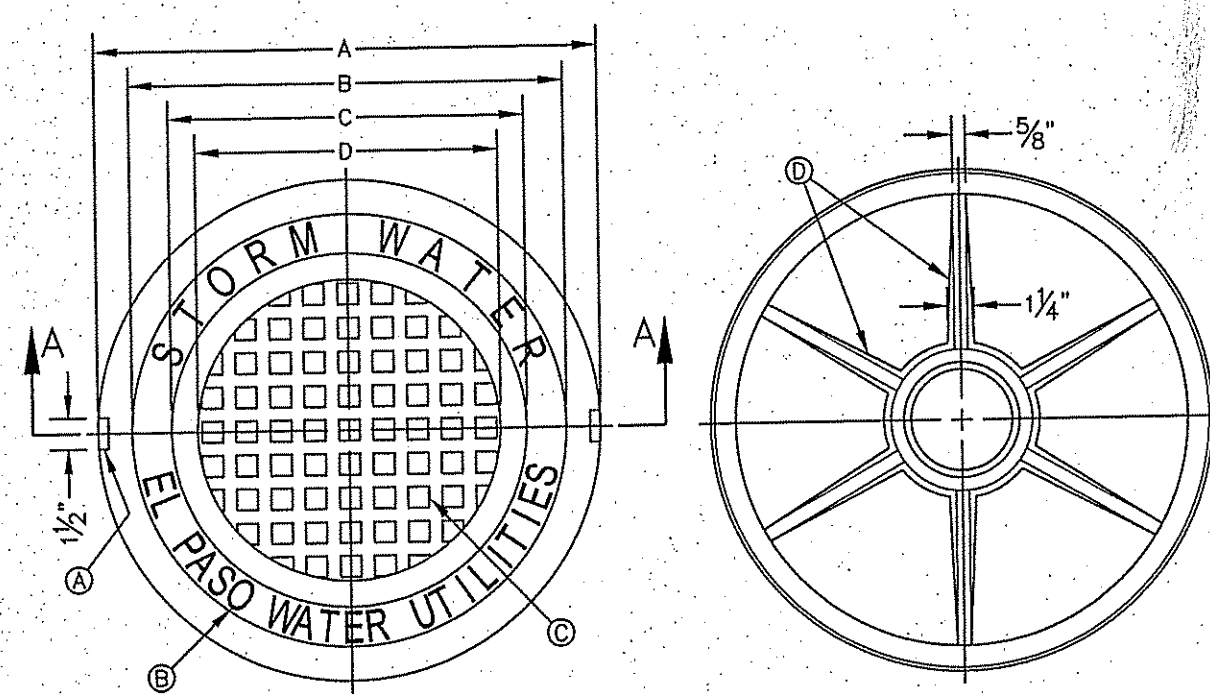
ENGINEERING / PLANNING / SURVEYING / GPS

6080 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

SHEET TITLE

STREET PLAN-PROFILE

STRUCTURE DETAILS

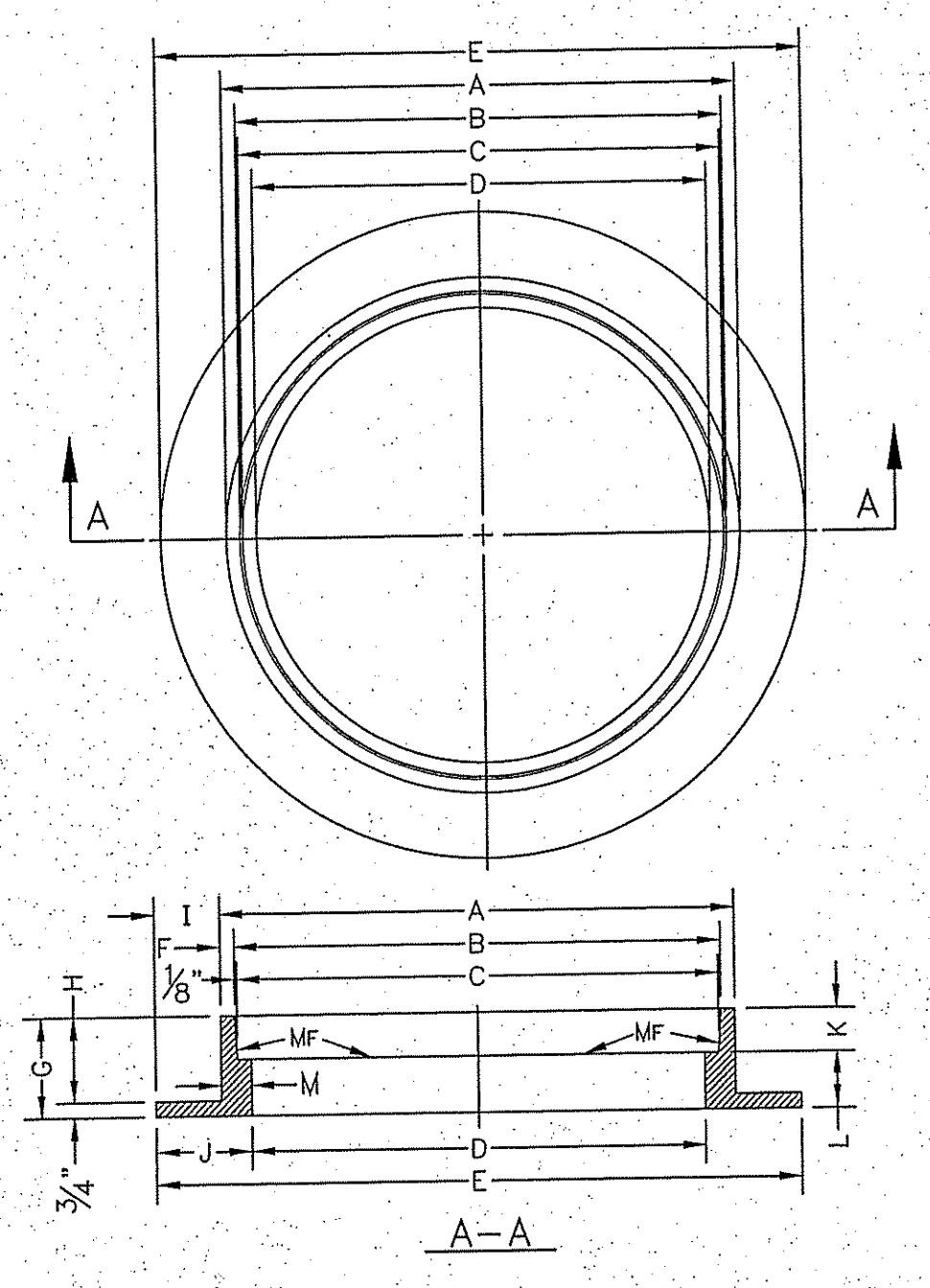


- GENERAL NOTES:**
1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 4. AS-CAST DIMENSIONS MAY VARY 1/16" ± PER FOOT (AASHTO M306-07).
 5. WEIGHT MAY VARY 5%± (AASHTO M306-07).
 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 (1/2" TALL) WITH 5/8" 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" | 23 3/8" | 31 3/8" |
| B | 28 3/8" | 20 3/8" | 28 3/8" |
| C | 24 3/8" | 16 3/8" | 24 3/8" |
| D | 21 7/8" | 14 3/8" | 21 7/8" |
| E | 2" | 3" | 3" |
| F | 1/2" | 1/2" | 1/2" |
| G | 3 1/8" | 3" | 3" |
| H | 1 1/8" | 1" | 1" |
| WEIGHT | 265 lbs. | 175 lbs. | 310 lbs. |

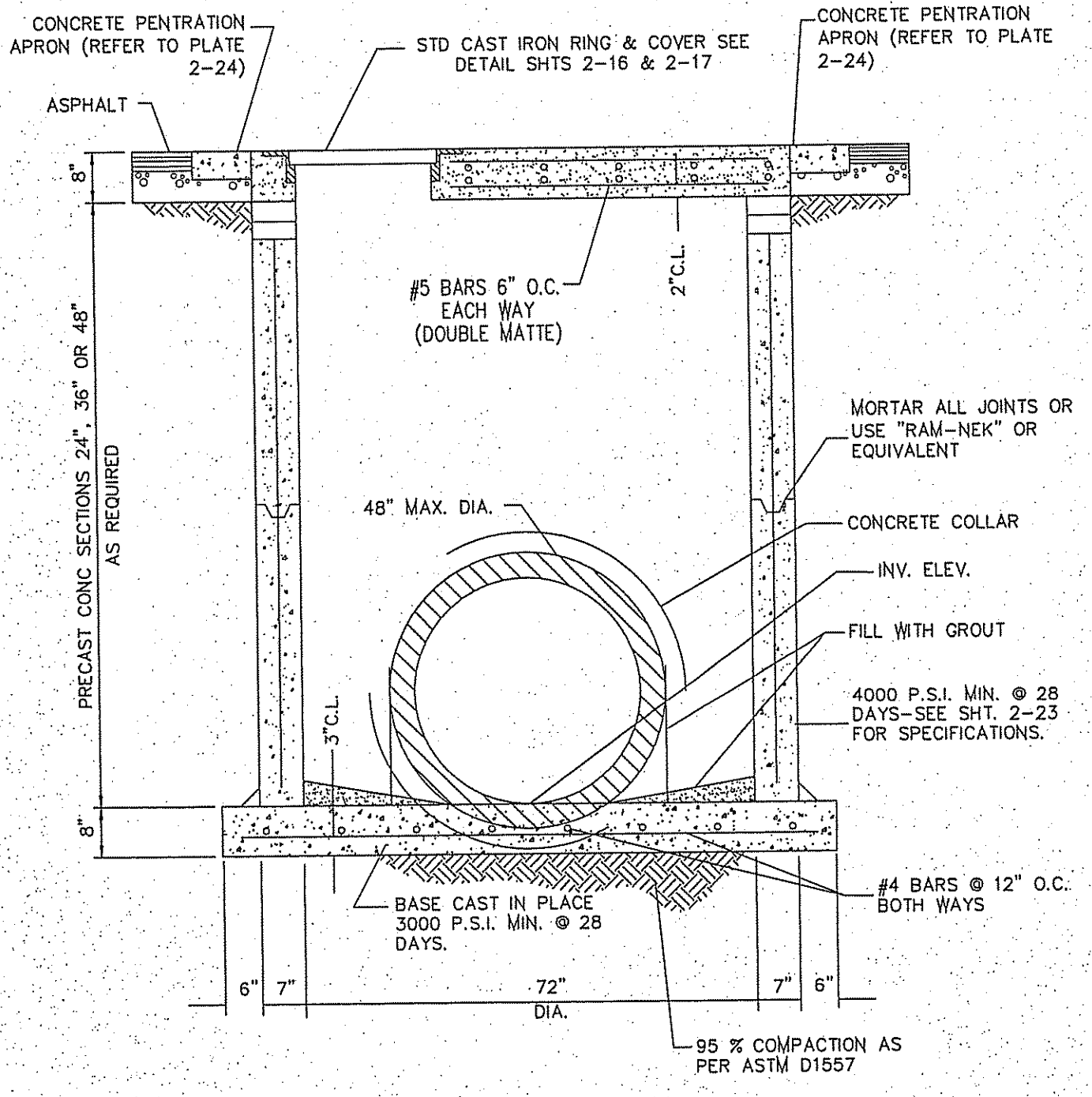


STORMWATER MANHOLE RING
SECTION VIEW

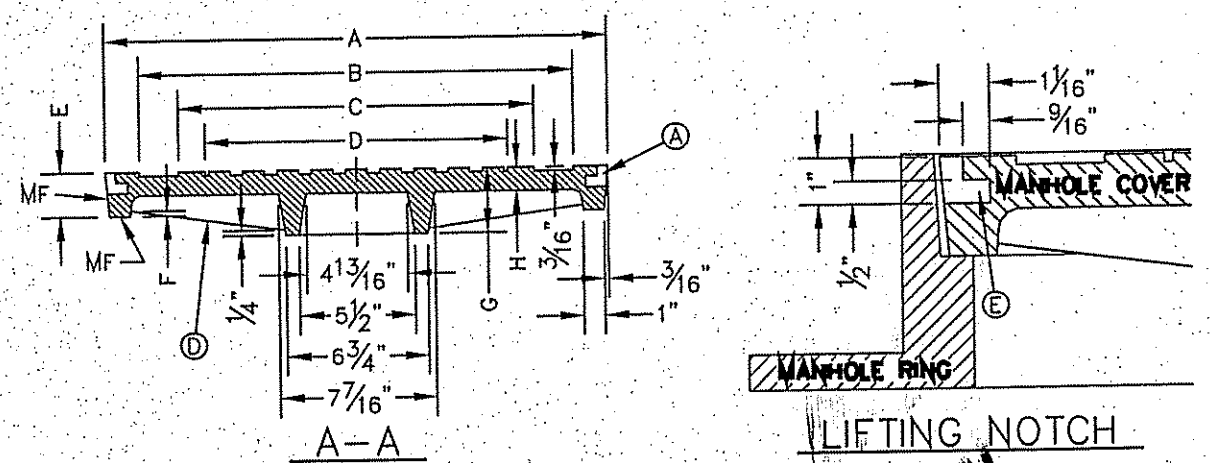
- GENERAL NOTES:**
1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 4. AS-CAST DIMENSIONS MAY VARY 1/16" ± PER FOOT (AASHTO M306-07).
 5. WEIGHT MAY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

SEE NOTE 6

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



72" DIAMETER PRECAST MANHOLE SECTIONS
NTS

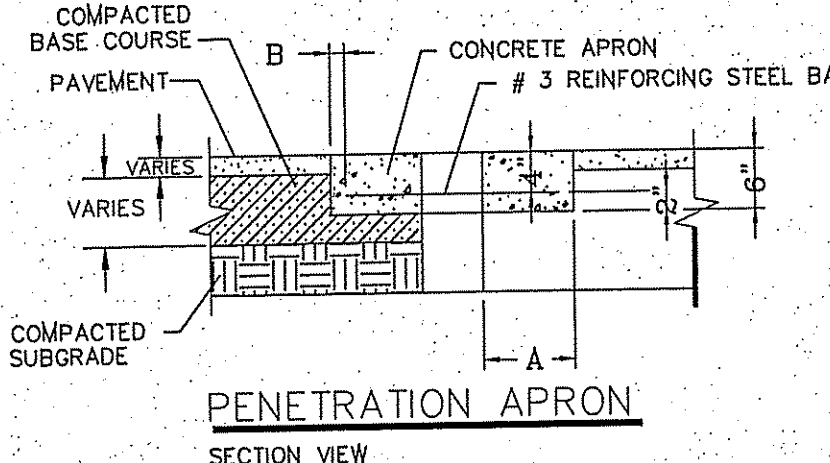
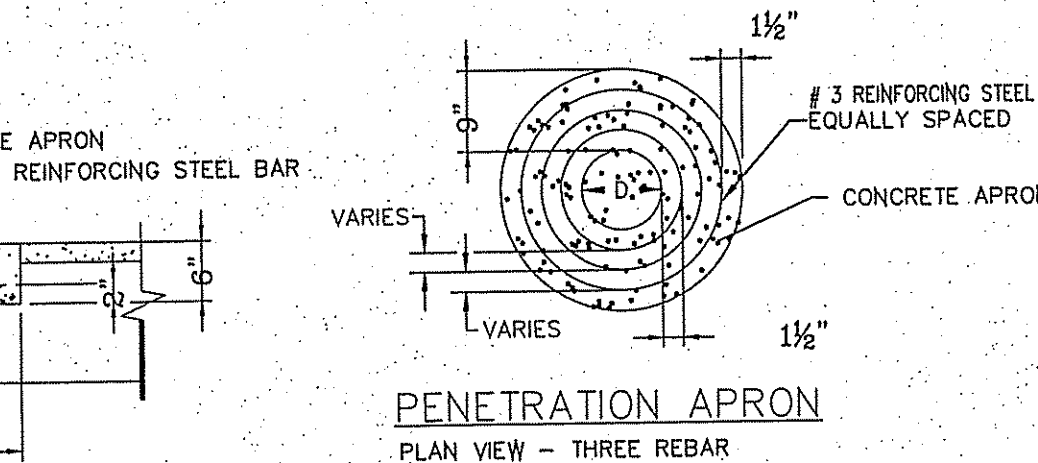
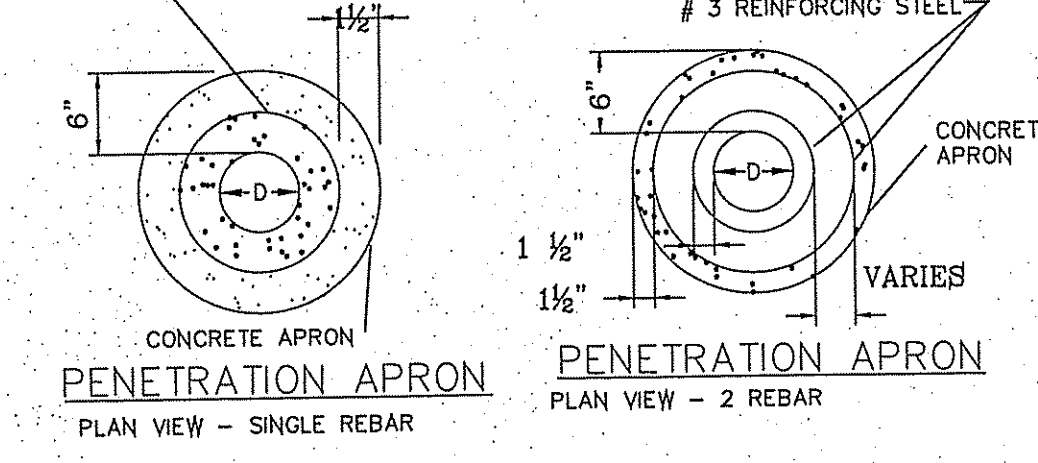


STORMWATER MANHOLE COVER
SECTION VIEW

CONCRETE APRON FOR CIRCULAR PENETRATIONS IN ASPHALT PAVEMENTS

| "D" DIAMETER OF PENETRATION | "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 | 2 | 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:

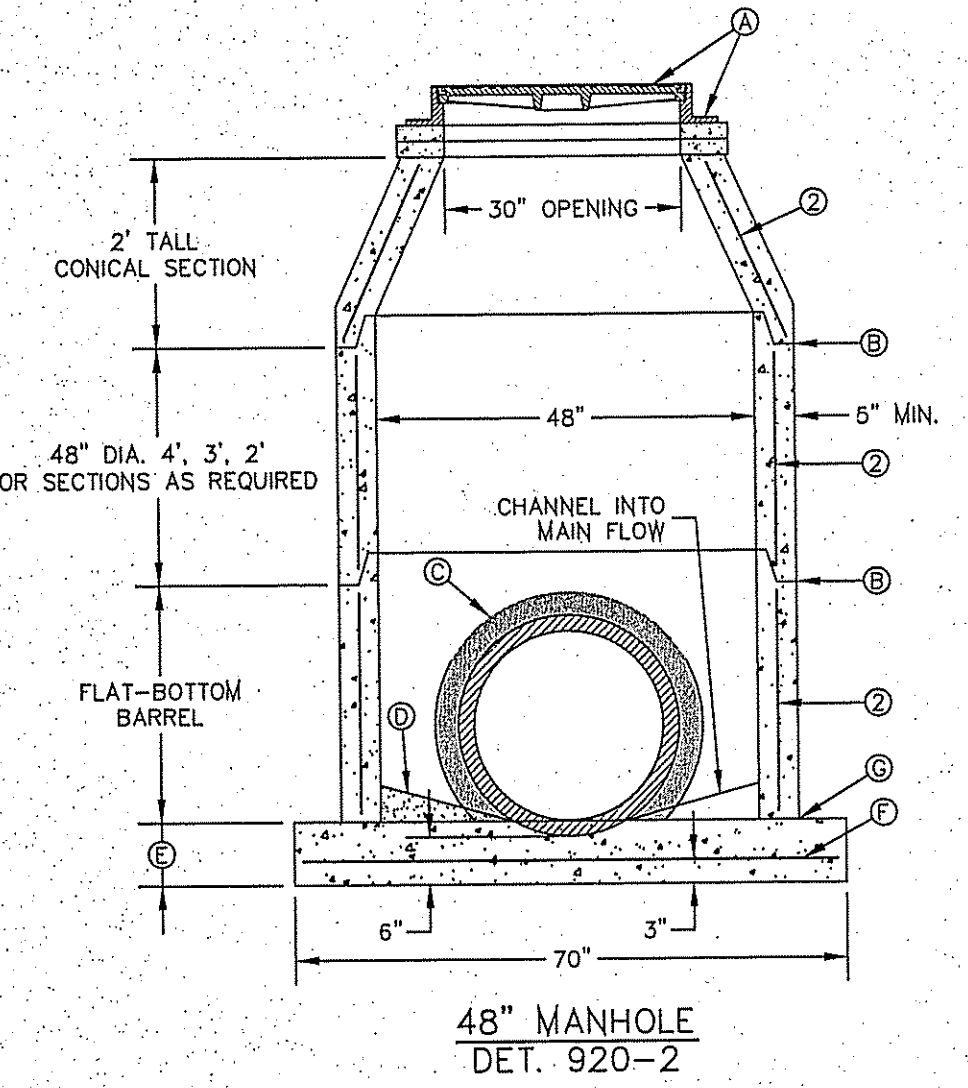


PENETRATION APRON
PLAN VIEW - THREE REBAR

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

GENERAL NOTES:

1. THE PENETRATION APRON SHOULD BE CAST IN-PLACE CONCRETE. (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 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.



48" MANHOLE
DET. 920-2

GENERAL NOTES:

1. MANHOLE TYPE "S-A1" SHALL BE USED FOR LINES 24" AND SMALLER, NOT TO BE USED UNDER GROUND WATER CONDITIONS.
2. PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" OF OPENINGS OR KNOCKOUTS, OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
3. CEMENT SHALL BE TYPE I-III PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL MANHOLE WEIGHT.
4. THE BASE SHALL BE CAST IN PLACE CONCRETE (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI.) POURED ON UNDISTURBED OR THOROUGHLY COMPACTED SUB-BASE.
5. MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
6. THE SUBGRADE UNDER THE BASE SHALL BE COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.

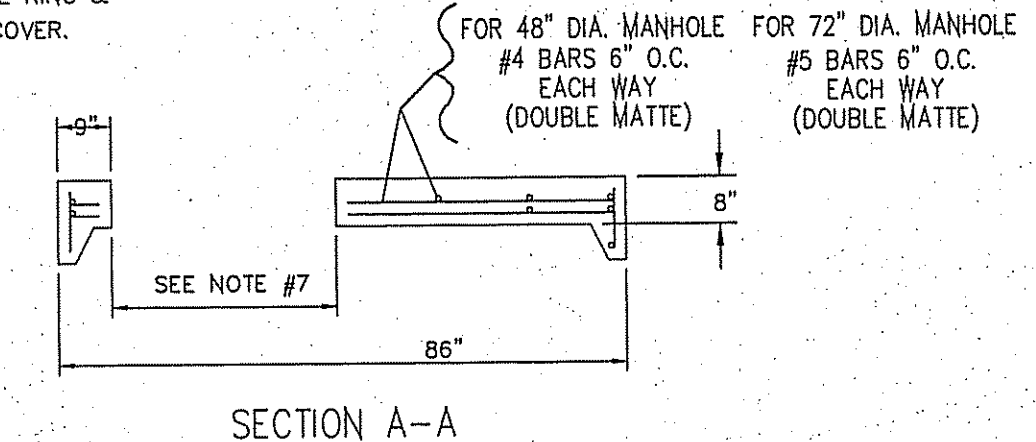
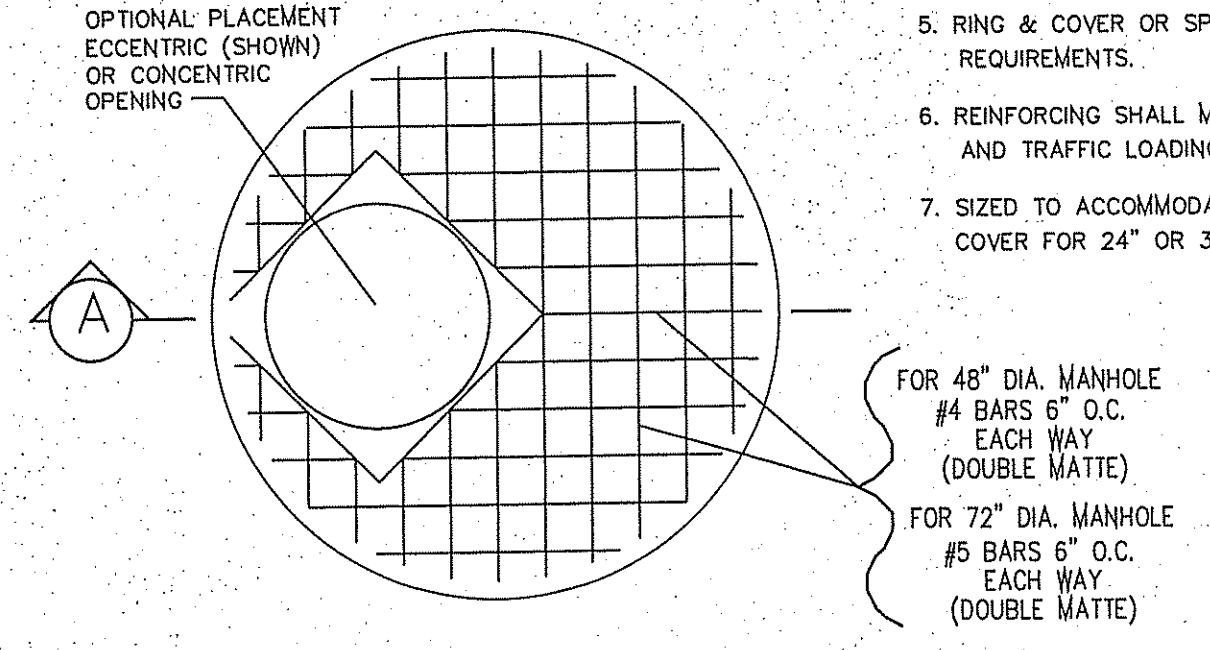
CONSTRUCTION KEY NOTES:

- A. MANHOLE RING AND COVER (SEE DETAILS 916 & 917). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
- B. ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH MORTAR OR RAM-NEK (OR APPROVED EQUAL).
- C. PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE AND SHALL HAVE A CONCRETE COLLAR ALL AROUND (SEE DETAIL 926-2).
- D. GROUT AS REQUIRED.
- E. CONCRETE BASE SHALL BE 8" FOR MH'S UP TO 12" DEEP AND 12" FOR DEPTHS GREATER THAN 12".
- F. NO. 4 REBARS 8" ON CENTER, BOTH WAYS.
- G. SEAL ALL AROUND WITH MORTAR OR RAM-NEK (OR APPROVED EQUAL).

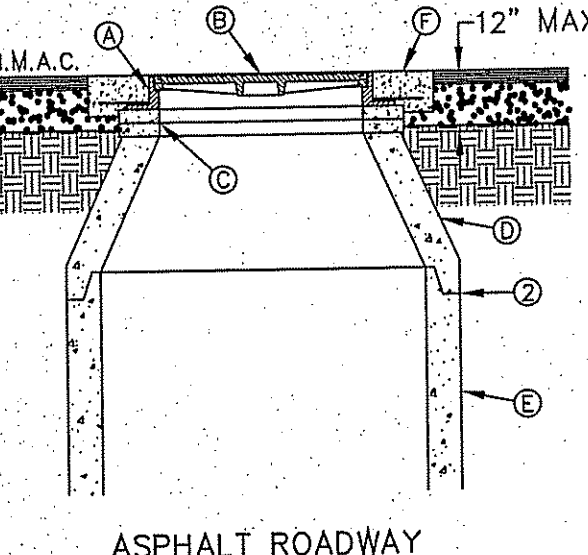


GENERAL NOTES:

1. ALL JOINTS TO BE TONGUE AND GROOVE AND SEALED WITH RAM-NEK OR EQUAL.
2. MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
3. 4000 P.S.I. CONCRETE 28 DAYS.
4. KEYLOCK ADDS 8" TO VERTICAL HEIGHT.
5. RING & COVER OR SPECIAL LIDS TO MEET REQUIREMENTS.
6. REINFORCING SHALL MEET A.S.T.M. C478-87 AND TRAFFIC LOADING (HS-20).
7. SIZED TO ACCOMMODATE APPLICABLE RING & COVER FOR 24" OR 32" MANHOLE COVER.



MANHOLE COVER FOR 48" and 72" MANHOLE



ASPHALT ROADWAY

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

CONSTRUCTION KEY NOTES:

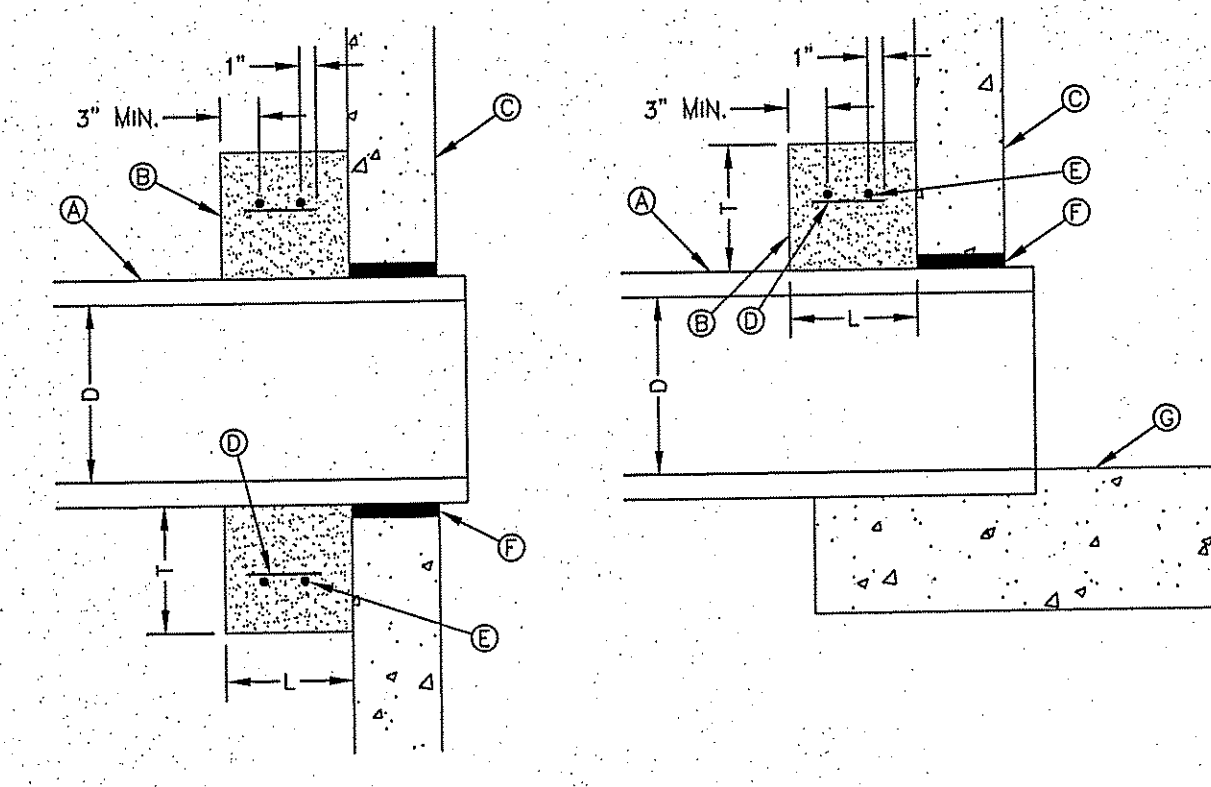
- A. MANHOLE RING (SEE DETAIL 377).
- B. MANHOLE COVER (SEE DETAIL 378).
- C. CONCRETE ADJUSTMENT RINGS AS REQUIRED.
- D. MANHOLE CONE SECTION.
- E. MANHOLE BARREL SECTION.
- F. CONCRETE COLLAR (SEE DETAIL 184-1) FLUSH WITH TOP OF H.M.A.C.
- G. MANHOLE RING FLUSH WITH TOP OF CONCRETE. CONCRETE COLLAR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

TABLE

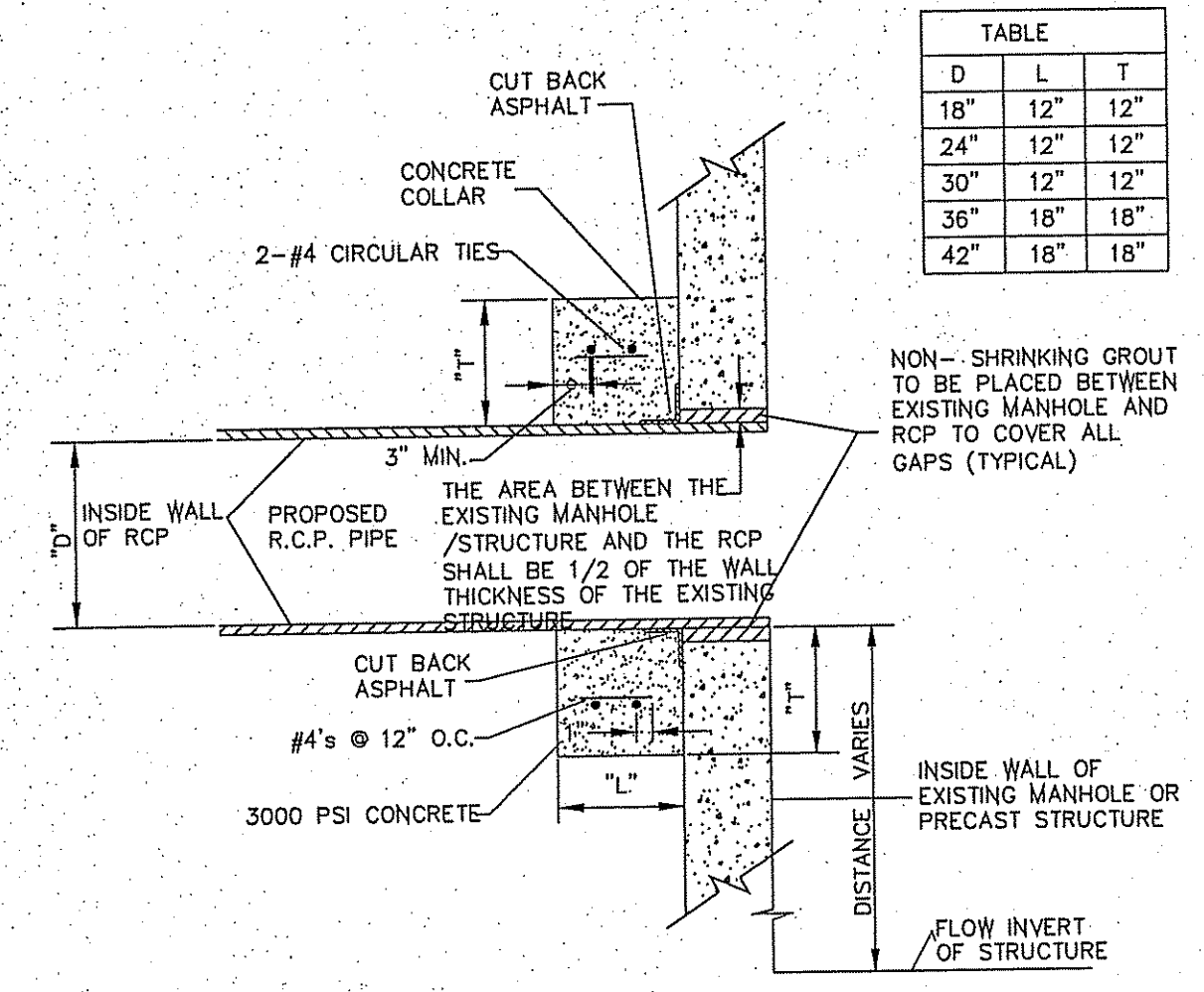
| D | L | T |
|-----|-----|-----|
| 18" | 12" | 12" |
| 24" | 12" | 12" |
| 30" | 12" | 12" |
| 36" | 18" | 18" |
| 42" | 18" | 18" |

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. #4'S @ 12" O.C. 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 PRECAST JUNCTION BOXES OR EXISTING MANHOLES (ABOVE MAINLINE FLOW INVERT)
SCALE: N.T.S.

CITY OF EL PASO

PROJECT NAME: MONTECILLO UNIT FOUR "A"

DATE: _____

BY: _____

REVISIONS: _____

BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1, JOHN BARKER SURVEY 10, COUNTY OF EL PASO, TEXAS

CITY OF EL PASO, EL PASO COUNTY, TEXAS

CONTAINING: 10.068± ACRES

ENGINEER'S SEAL: _____

DATE: NOV. 2013

DESIGN BY: Y.C.

INITIATED BY: R.O.

CHECKED BY: Y.C.

JOB NO.: 315-445

CONDE INC.

ENGINEERING / PLANNING / SURVEYING / GPS

6080 SURETY DR. STE 100

EL PASO, TEXAS 79905

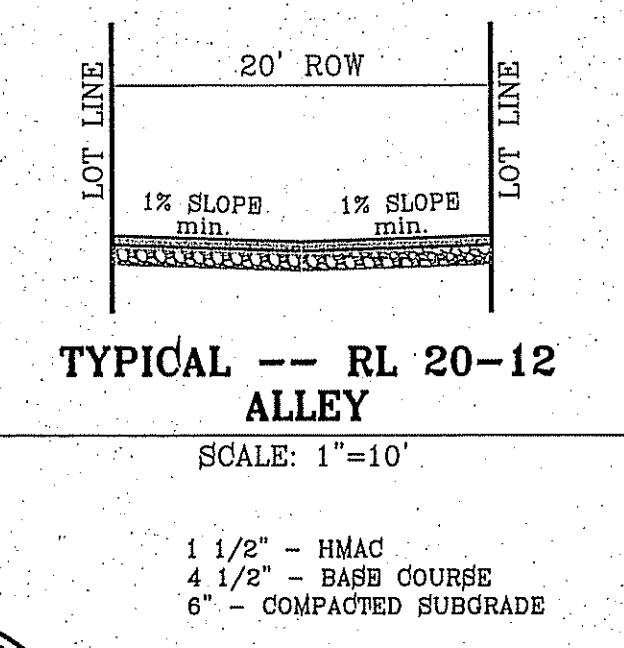
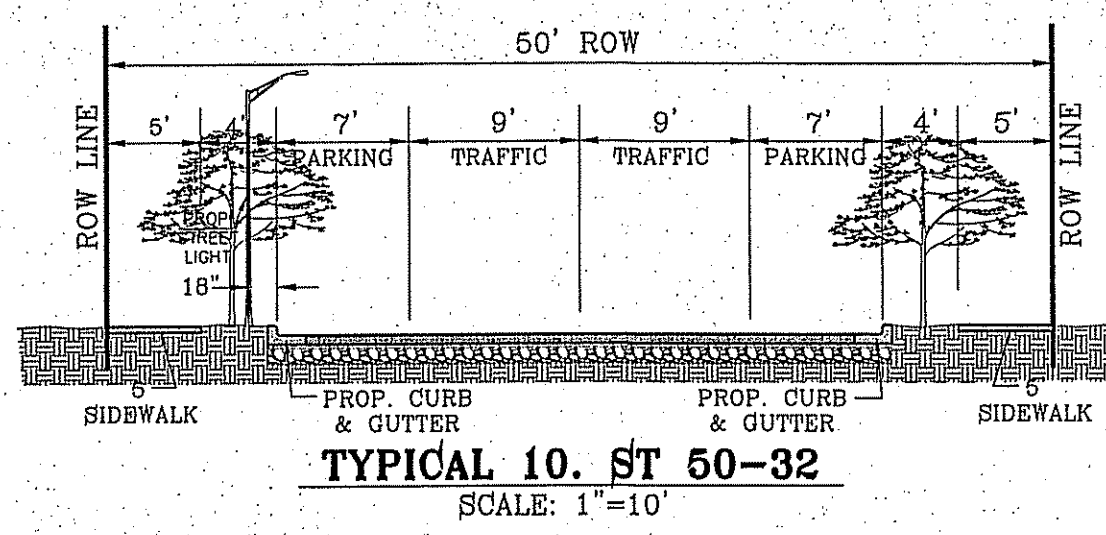
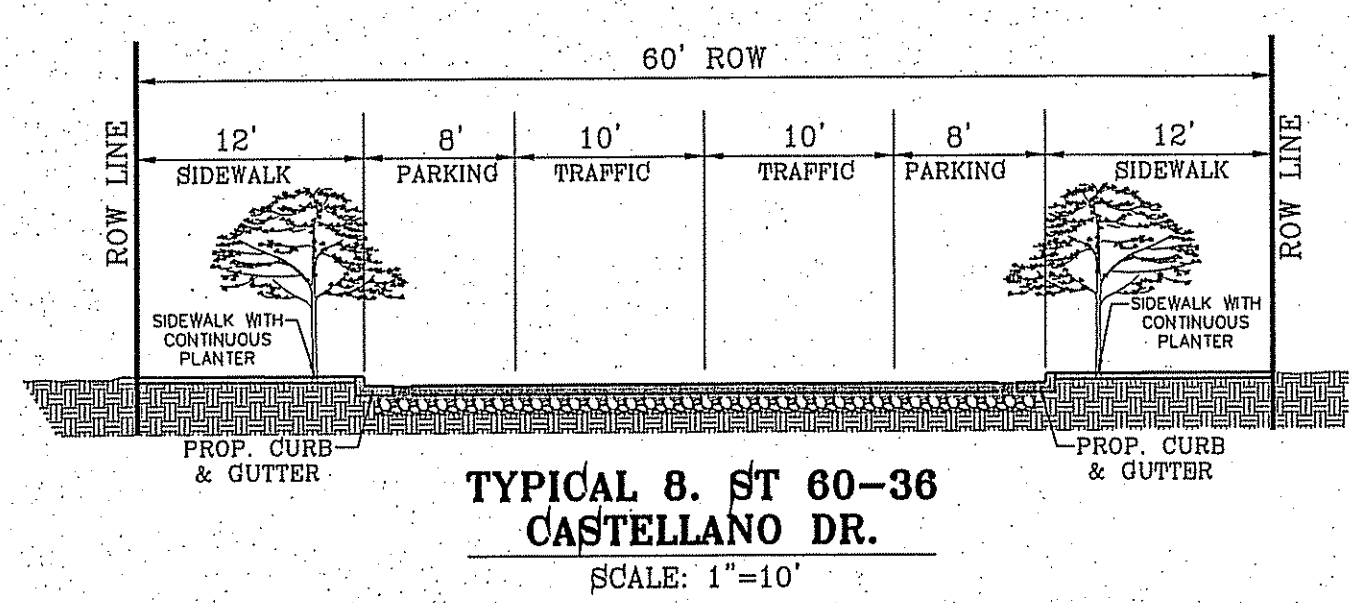
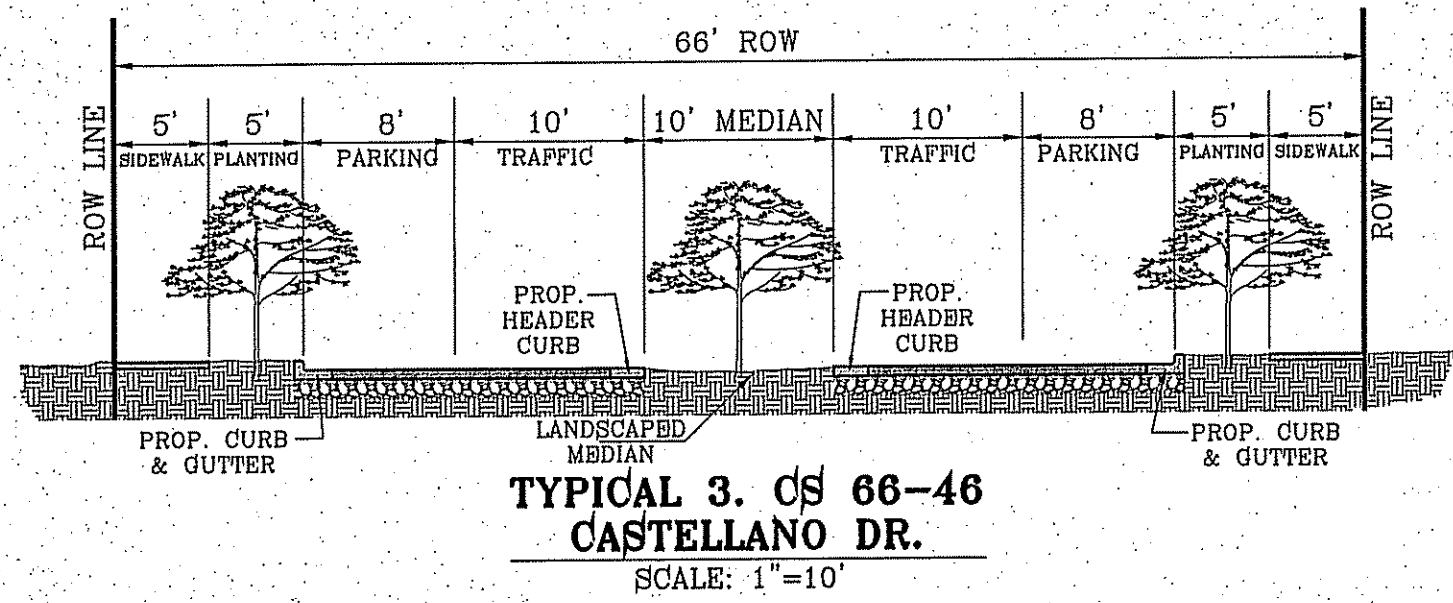
PHONE: (915) 592-0283

FAX: (915) 592-0286



SHEET TITLE: STREET PLAN-PROFILE

STRUCTURE DETAILS



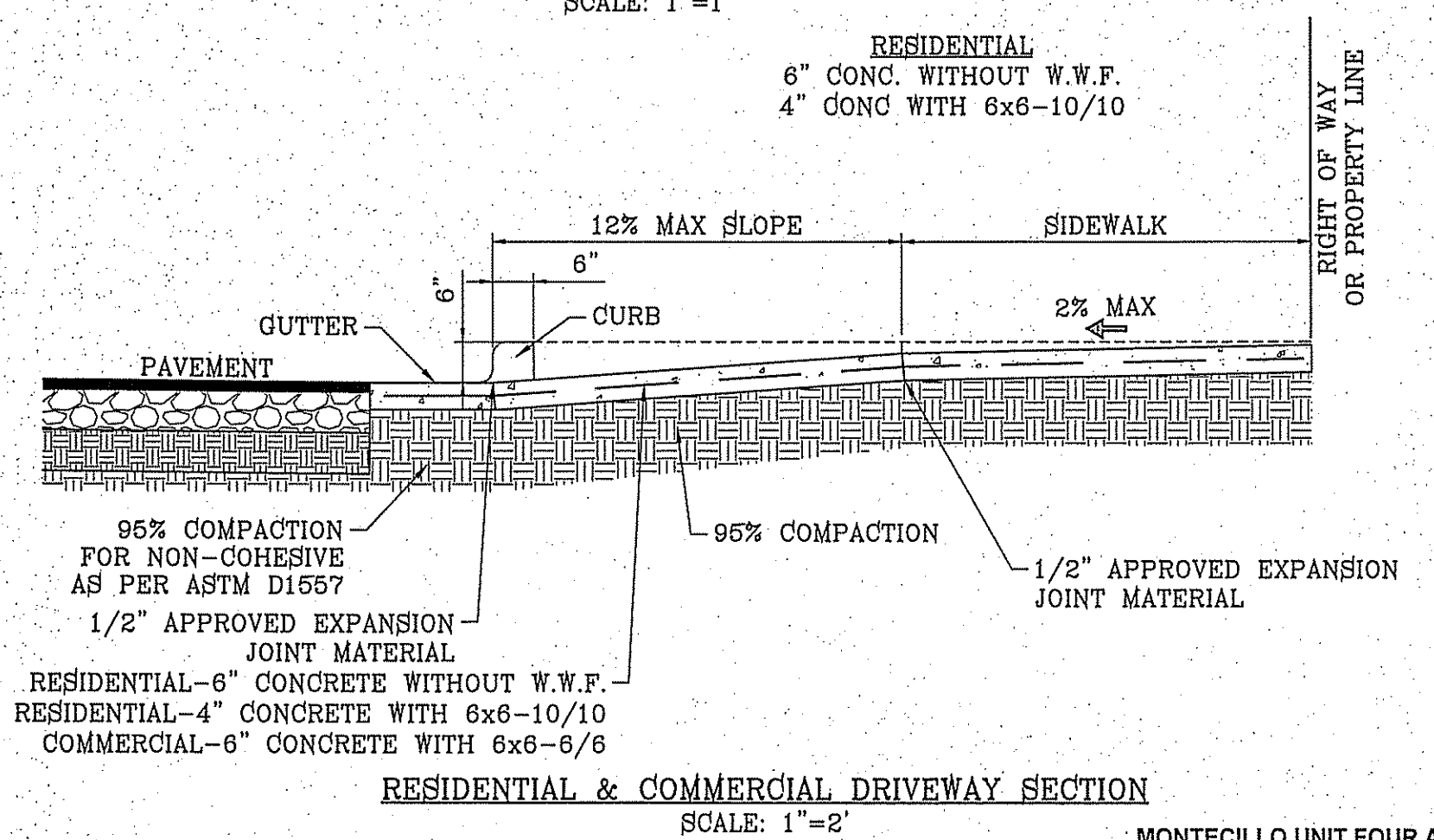
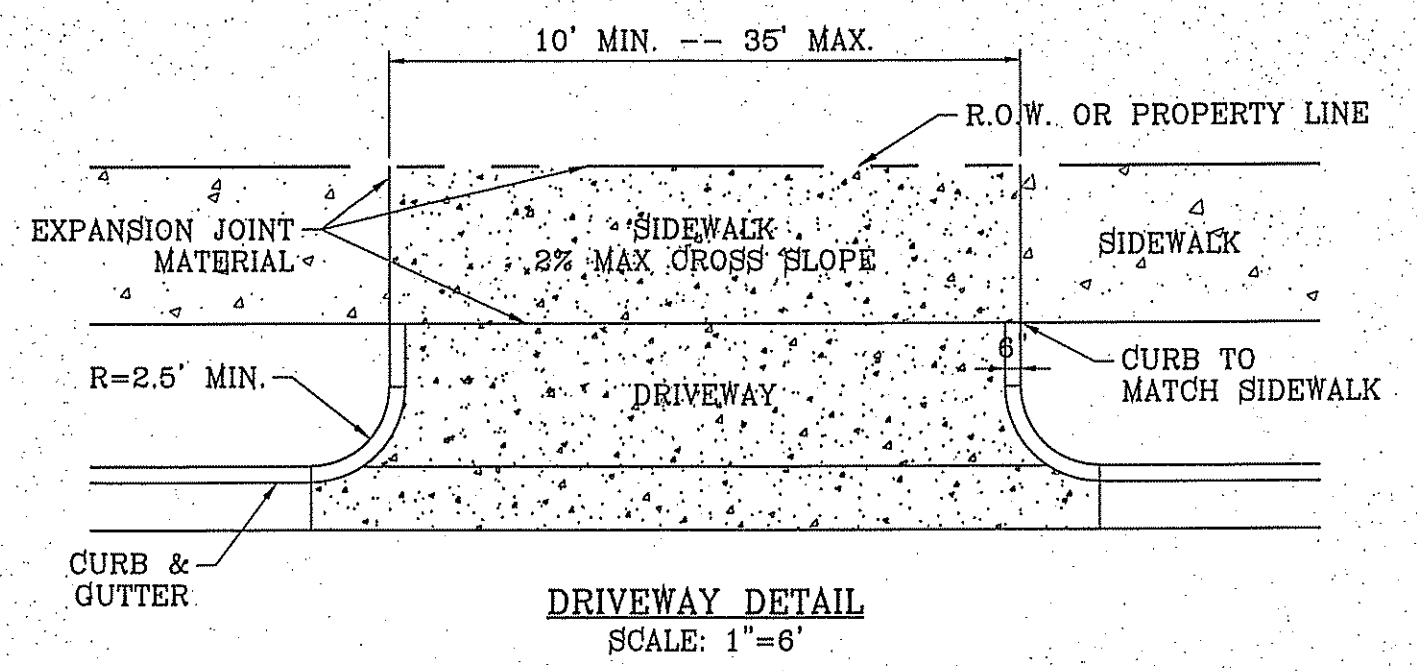
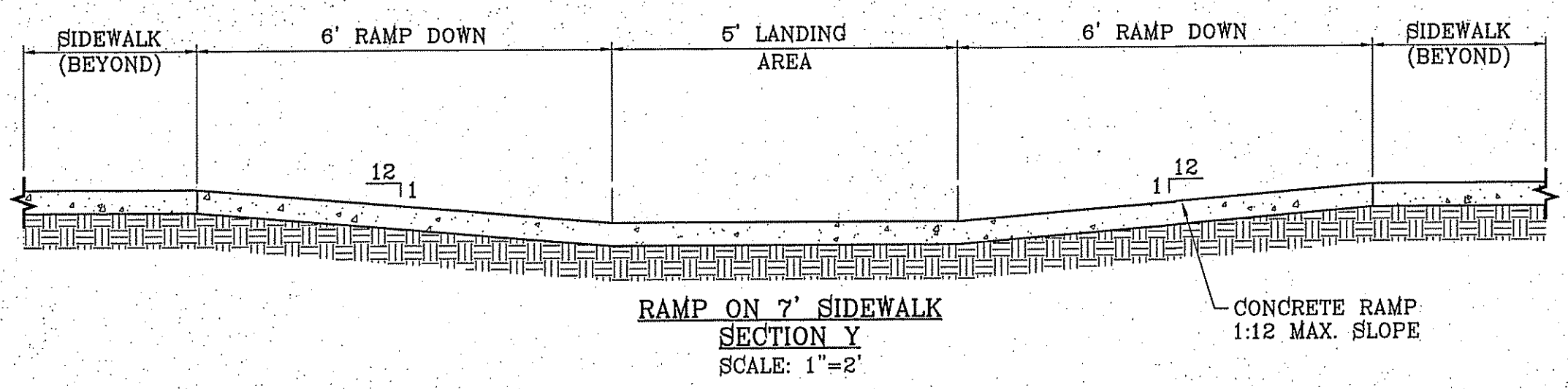
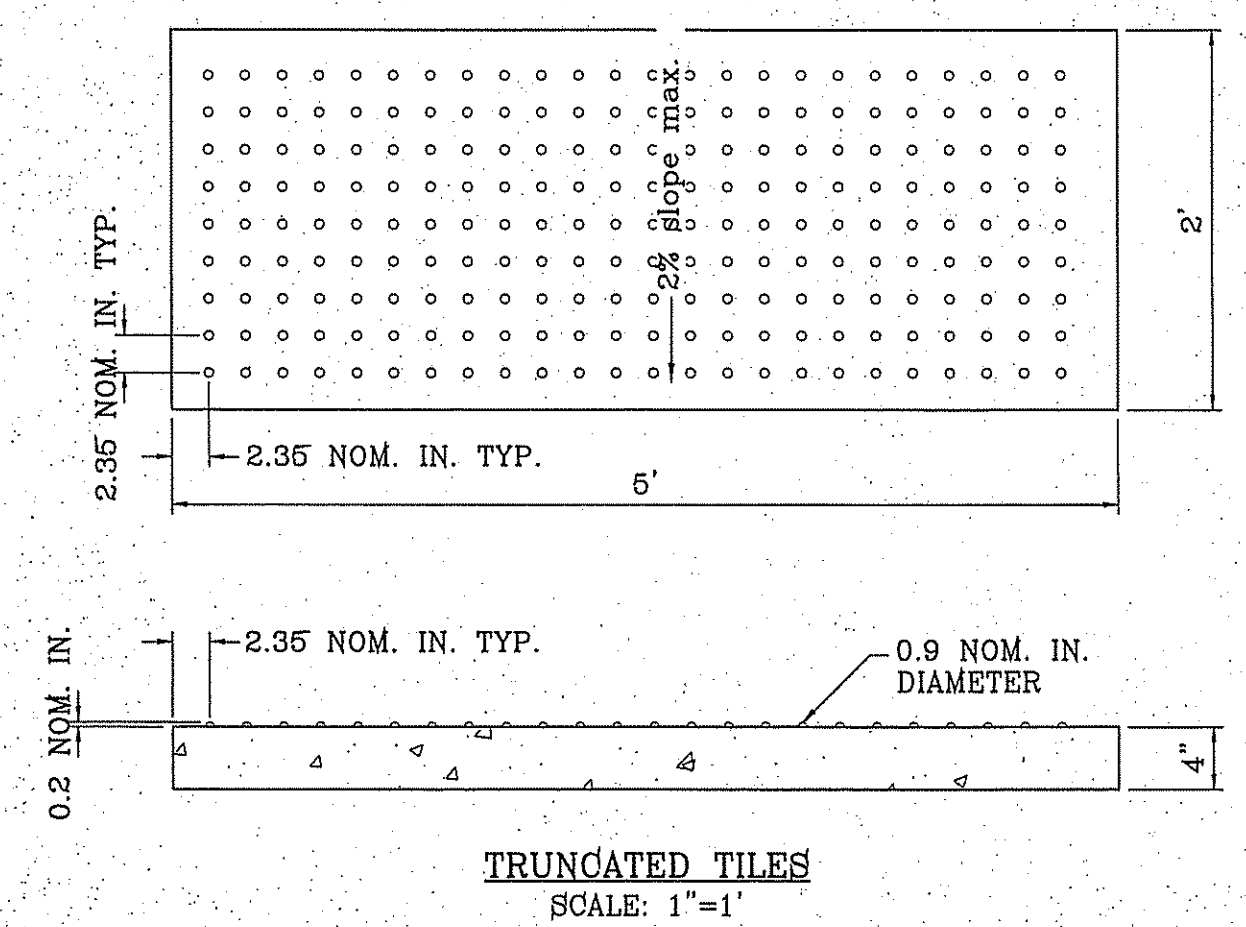
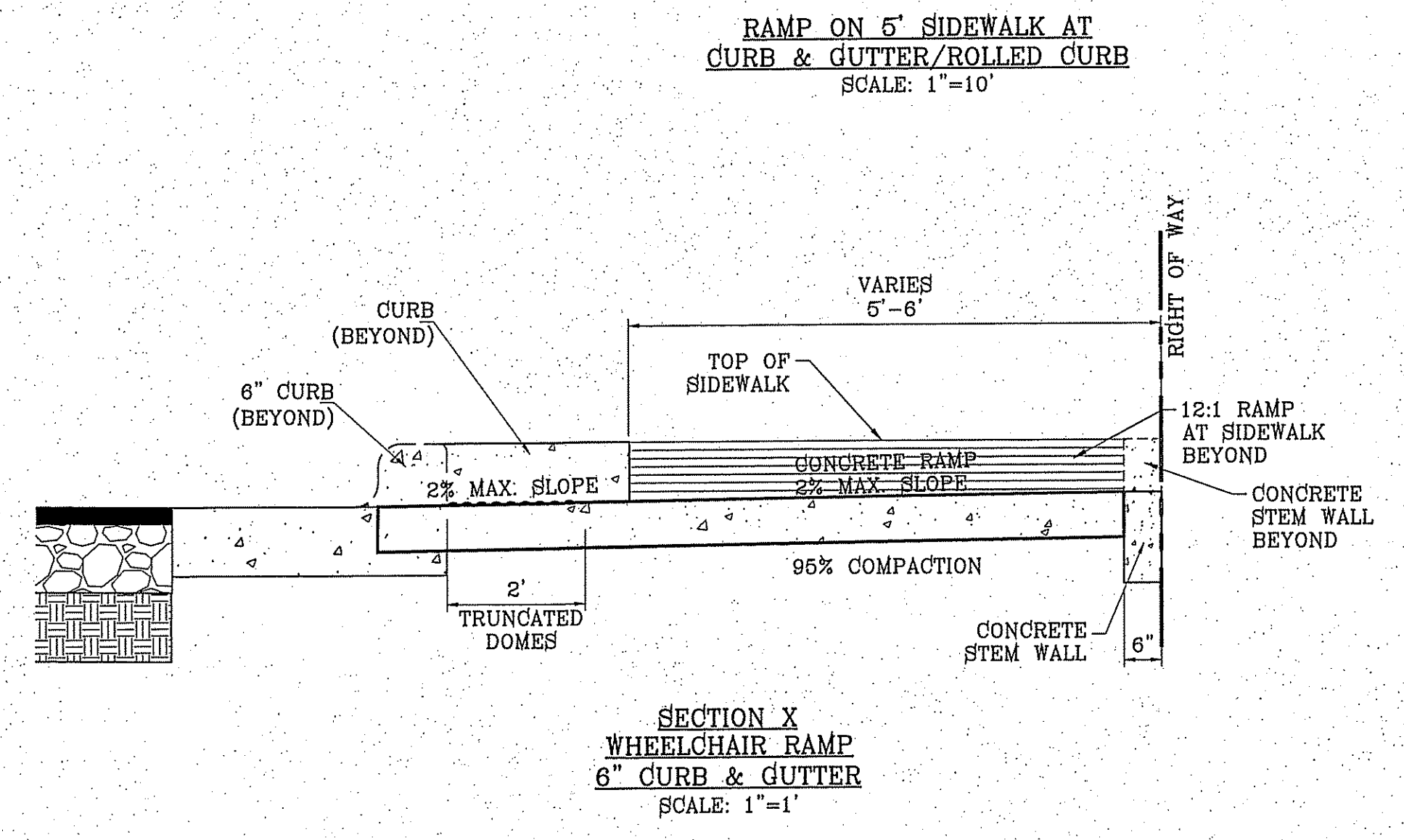
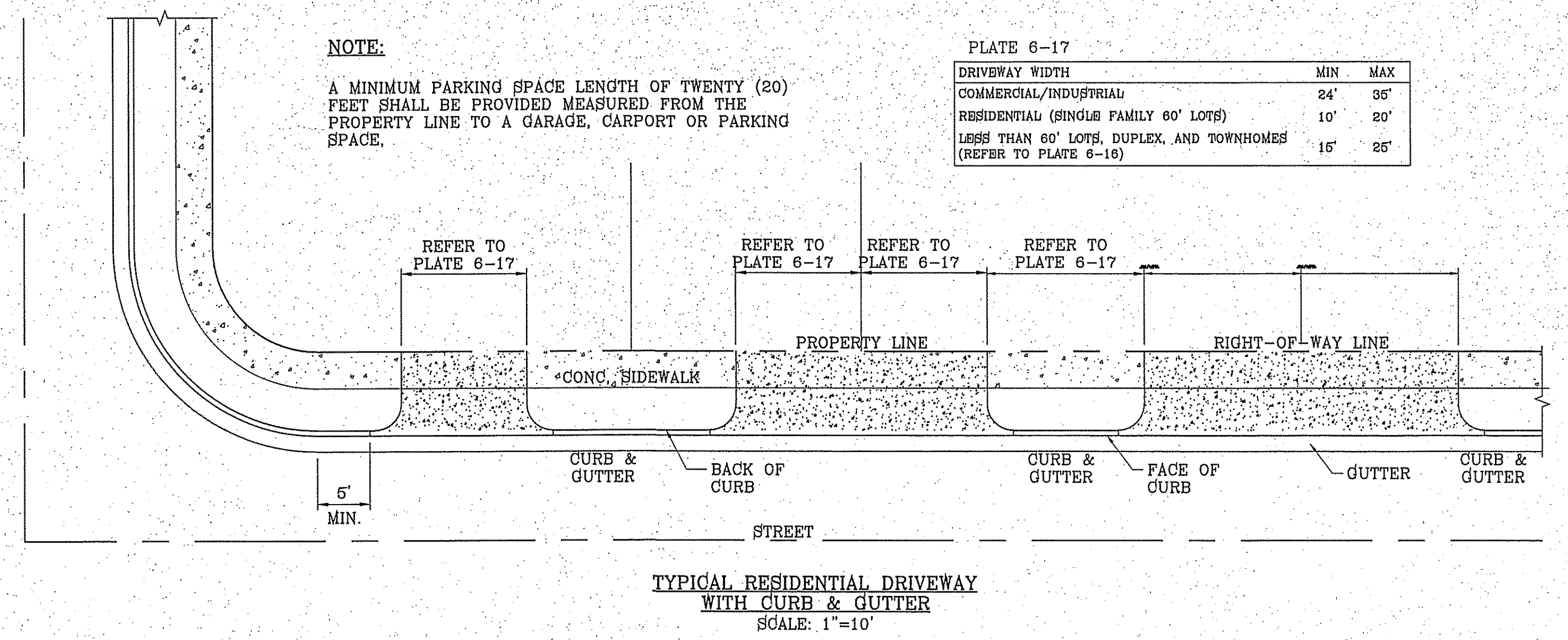
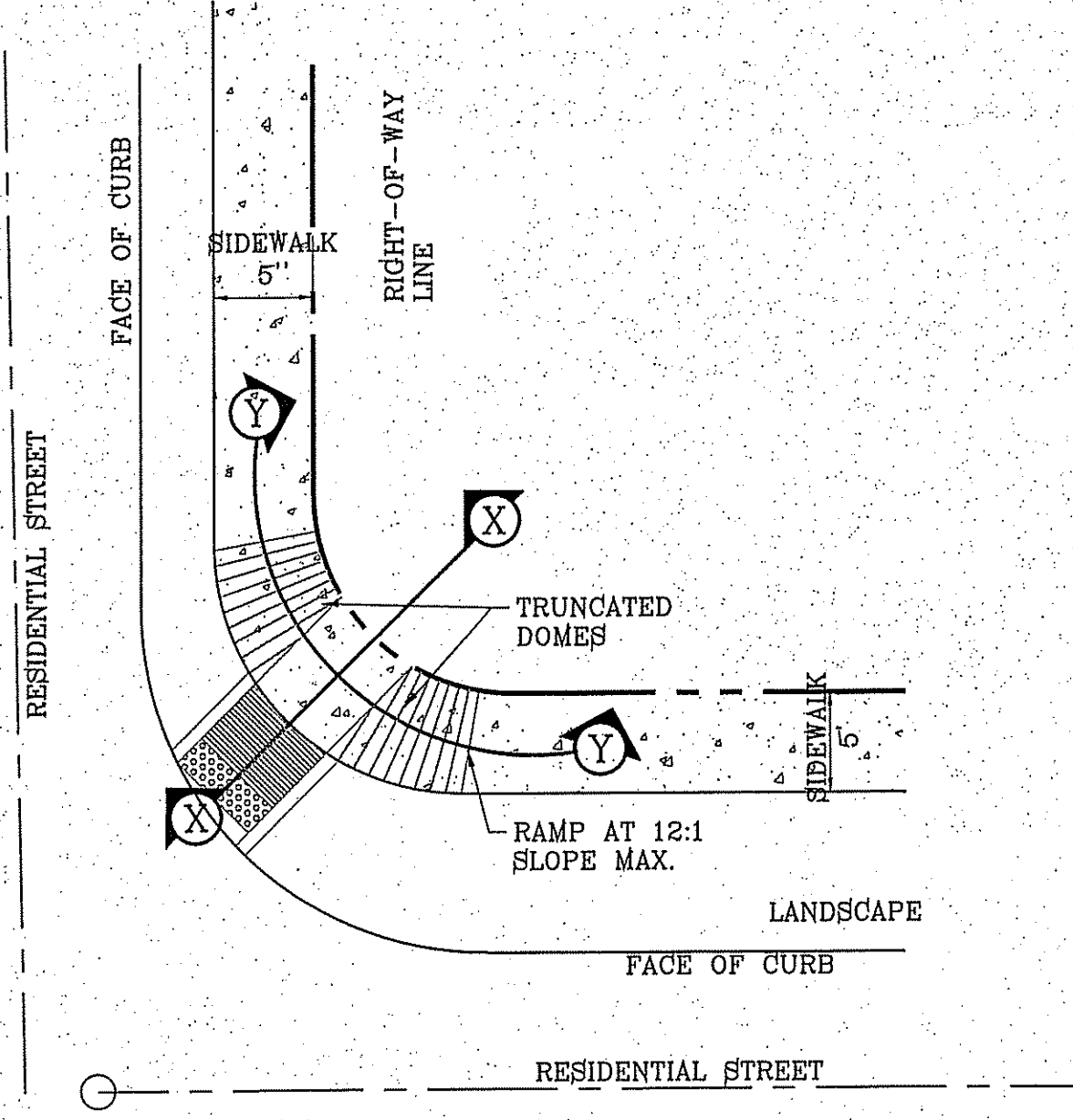
2" - HMAc
6" - BASE COURSE
8" - COMPACTED SUBGRADE

1 1/2" - HMAc
6" - BASE COURSE
8" - COMPACTED SUBGRADE

1 1/2" - HMAc
6" - BASE COURSE
8" - COMPACTED SUBGRADE



- NOTES:**
- 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.
 - CROSS SLOPE SHALL NOT EXCEED 1:50
 - RAMP SLOPE SHALL NOT EXCEED 1:12
 - ALL RAMP SHALL BE BUILT BY DEVELOPER
 - AND COMPLY WITH ADA STANDARDS



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
FESTIVAL DR. AND NEW ORLEANS DR.
ELEVATION: 4137.81 (CITY DATUM)

DATE: 8-5-2014
BY: R.O.

REVISIONS
CITY REDS - STREET SLOPES
CITY REDS - STREET NAMES TO SECTIONS

PROJECT NAME
MONTECILLO UNIT FOUR "A"

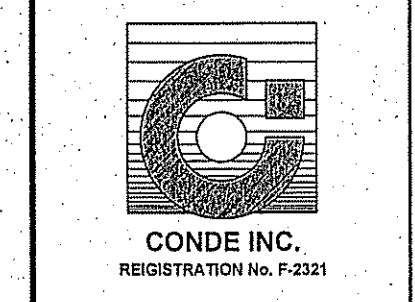
BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2,
MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 10.0584 ACRES

SCALE
HORIZ. AS NOTED
VERT. ---

DATE: NOV. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 315-46

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

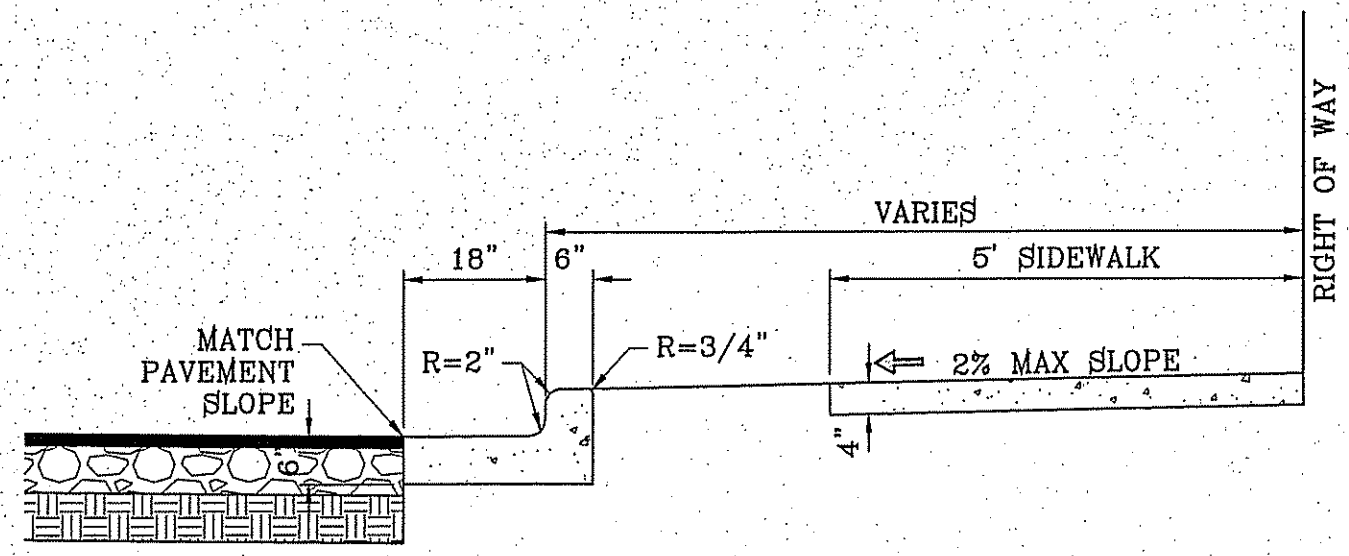
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0263
FAX: (915) 692-0266



SHEET TITLE
**STANDARD
DETAILS**

SHT 30 OF 41

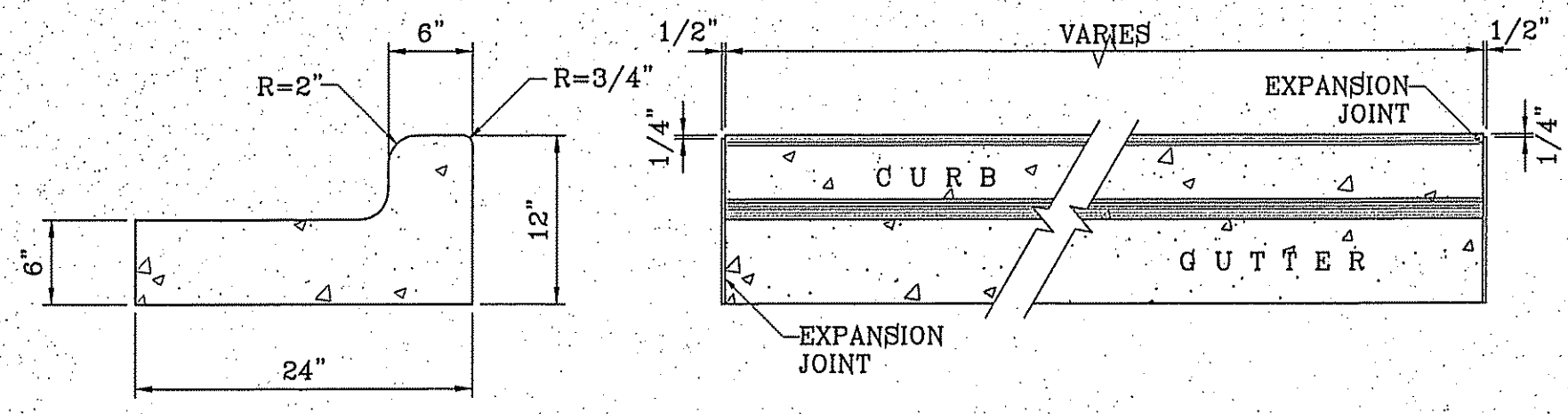
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NOTES:

1. CONCRETE SHALL BE 3000 P.S.I. MINIMUM.
2. DUMMY JOINTS REQUIRED AT 10' O.C. FOR CURB/GUTTER AND 5' O.C. FOR SIDEWALK.
3. EXPANSION MATERIAL REQUIRED AT CURB RETURNS WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
4. EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING FOR CURBS.
5. WHENEVER SIDEWALK ABUTS ROCK OR MASONRY STRUCTURES SUCH AS CURBS OR BUILDINGS, EXPANSION JOINT FILLER SHALL BE USED IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

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



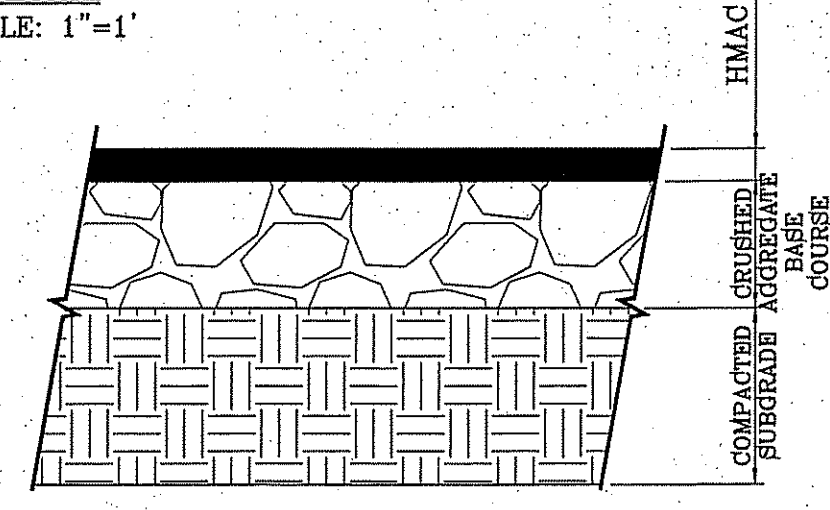
END SECTION

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.

STANDARD 6" CURB & GUTTER DETAIL
SCALE: 1"=1'



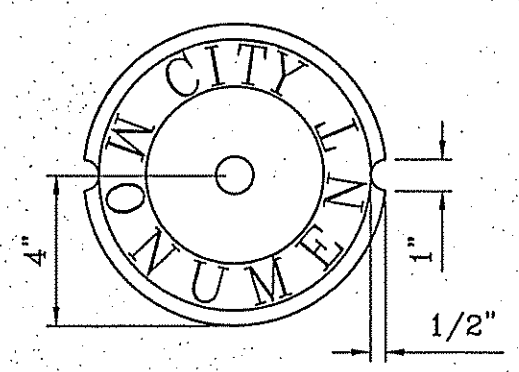
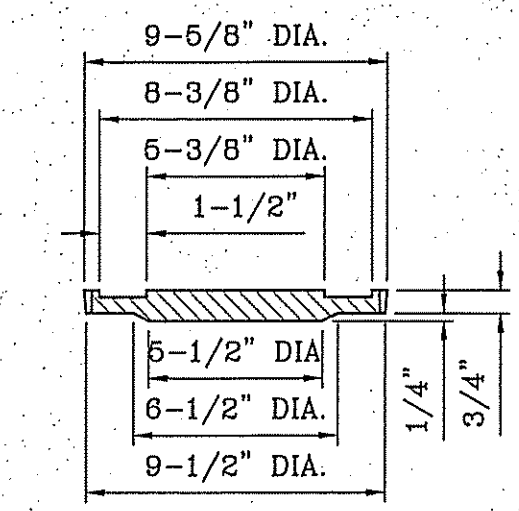
PAVEMENT SECTION DETAIL
SCALE: 1"=1'

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.



COVER
SCALE: 1"=6"

COUNTERSUNK DETAIL
SCALE: 1"=3"

SIZE AND CONSTRUCTION:

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

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

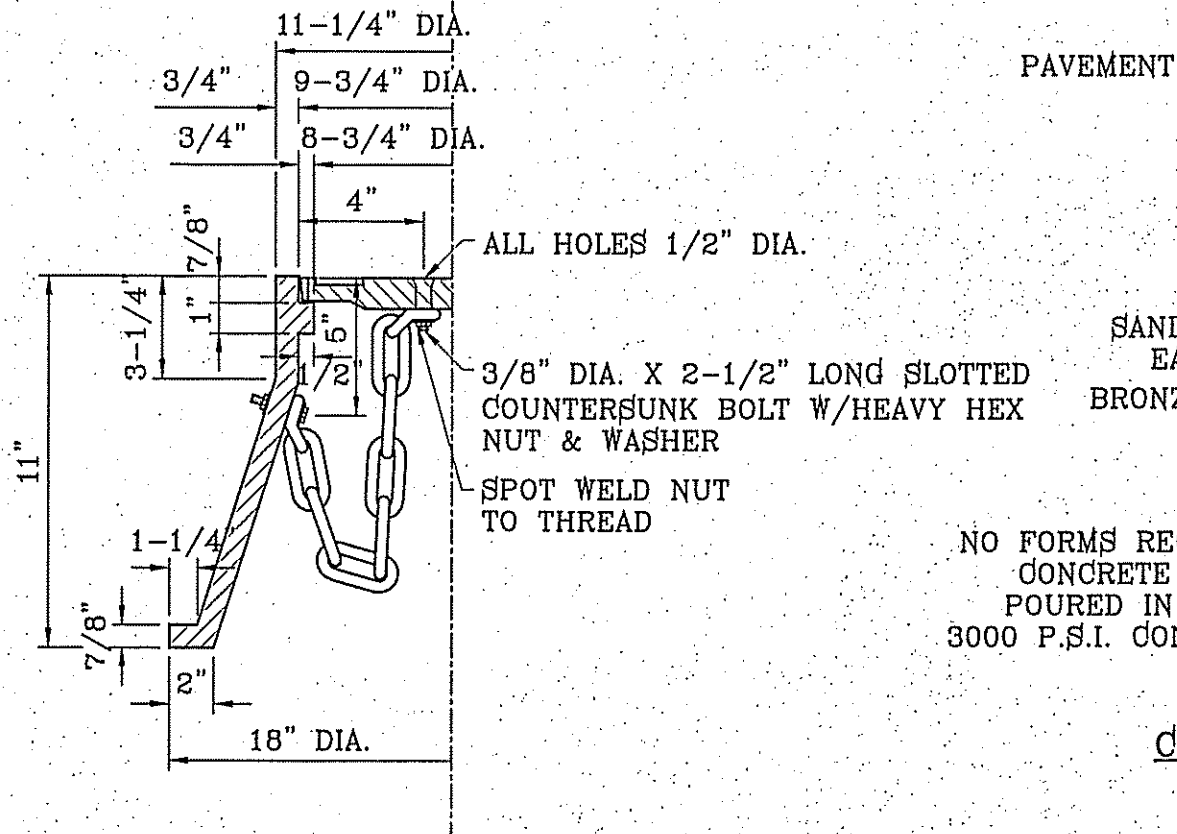
NUMBER AND LOCATIONS:

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

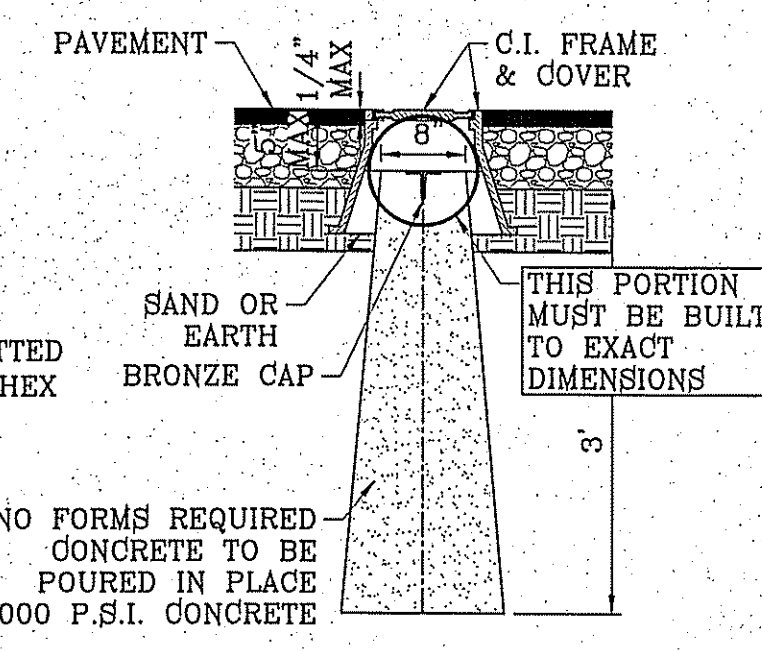
THE SIZE, TOPOGRAPHY AND LAYOUT OF THE SUBDIVISION SHALL GOVERN MONUMENT MUST BE WITHIN THE LINE OF SIGHT OF ANY OTHER MONUMENT (2000 FEET MAXIMUM DISTANCE BETWEEN MONUMENTS), THE NUMBER OF MONUMENTS REQUIRED.

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

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

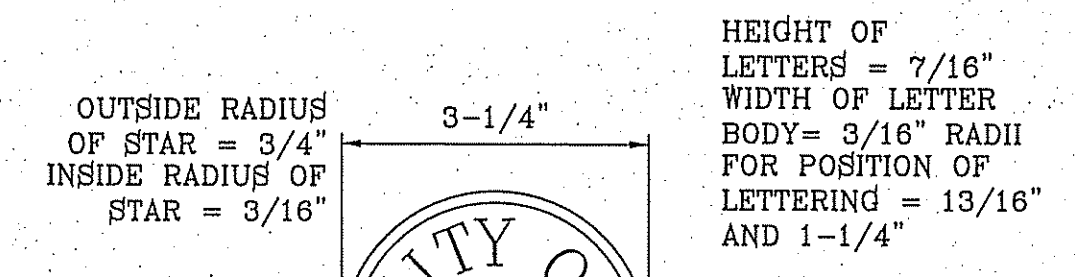


CITY MONUMENT DETAIL
SCALE: 1"=2"



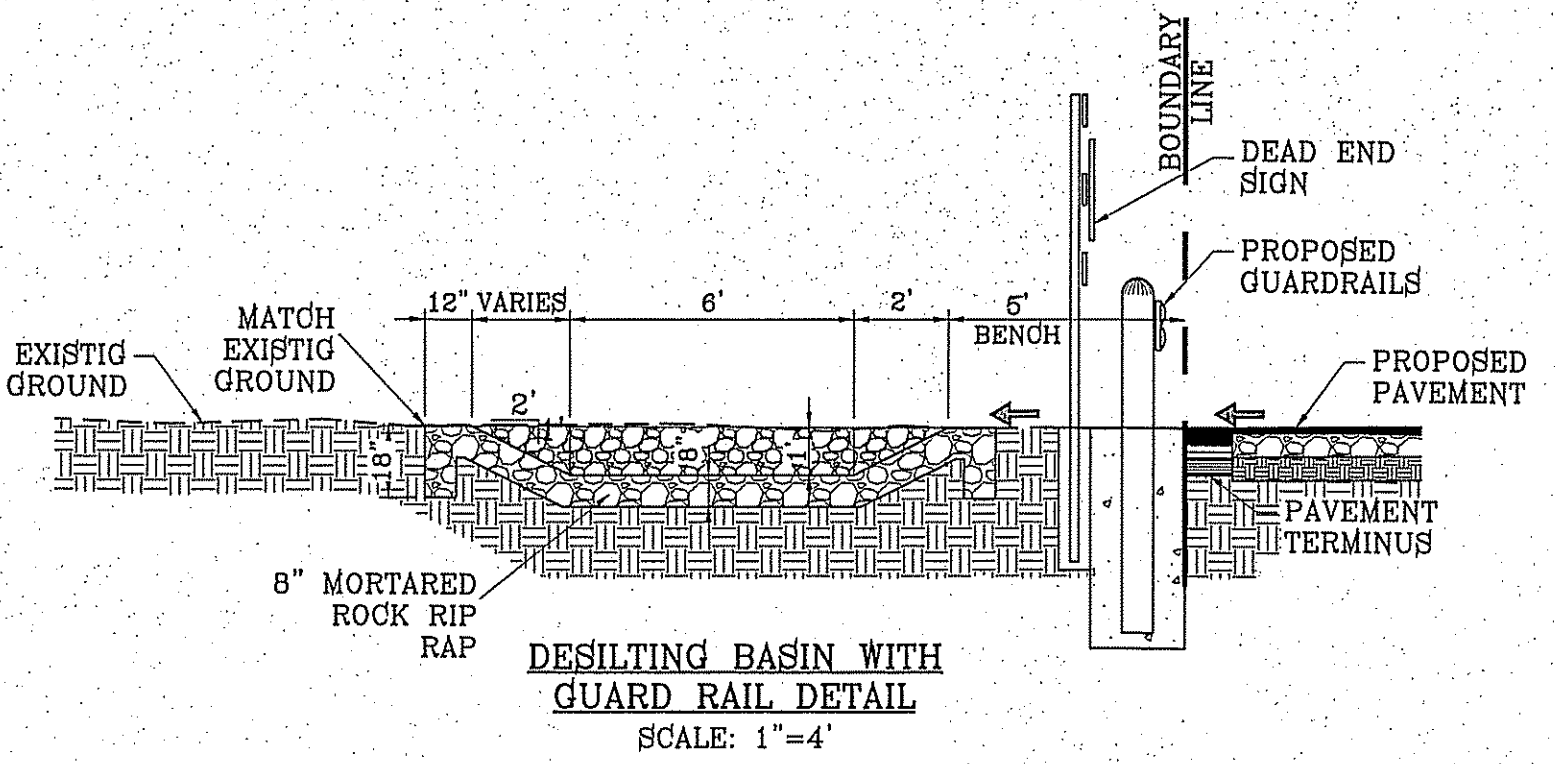
BRONZE MONUMENT CAP
SCALE: 1"=2"

SECTION A-A
SCALE: 1"=2"



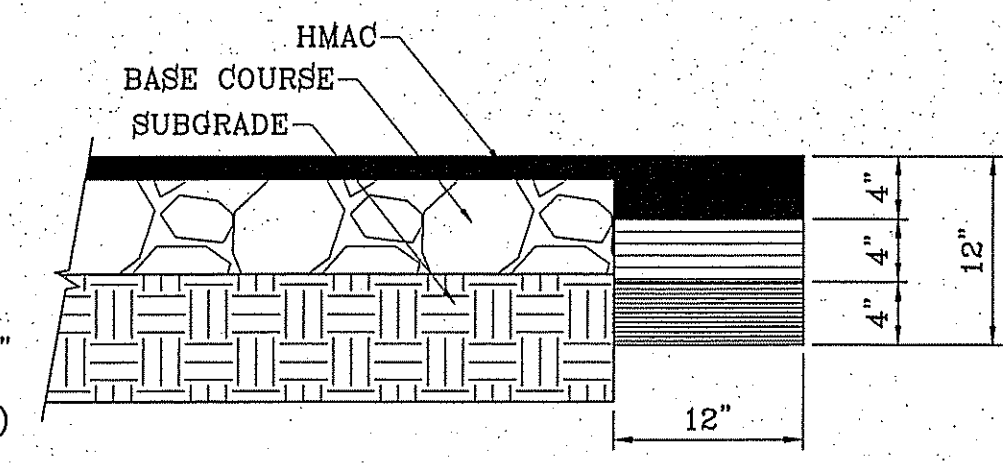
HEIGHT OF LETTERS = 7/16"
WIDTH OF LETTER BODY = 3/16" RADI FOR POSITION OF LETTERING = 13/16" AND 1-1/4"

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



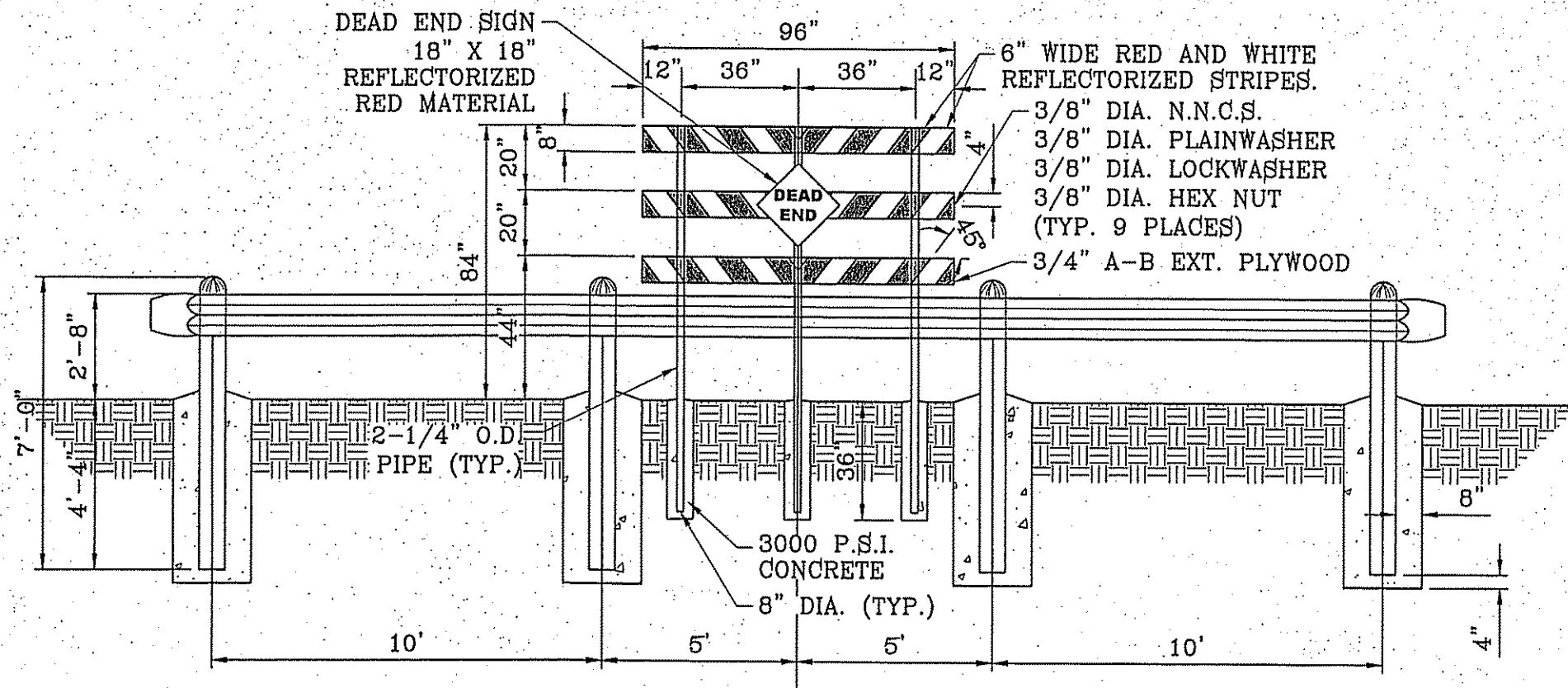
DESILTING BASIN WITH GUARD RAIL DETAIL
SCALE: 1"=4'

NOTE:
PAVEMENT DESIGN TO BE DETERMINED BY CBR TESTS



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.



GUARD RAIL DETAIL
SCALE: 1"=4'

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



| | |
|-----------|--|
| BENCHMARK | CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR. ELEVATION: 4137.61 (CITY DATUM) |
| BY | |
| DATE | |
| REVISIONS | |

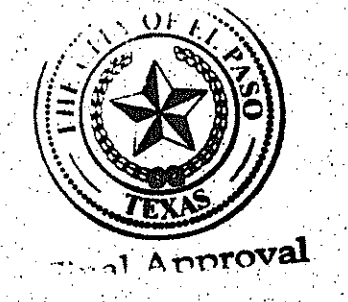
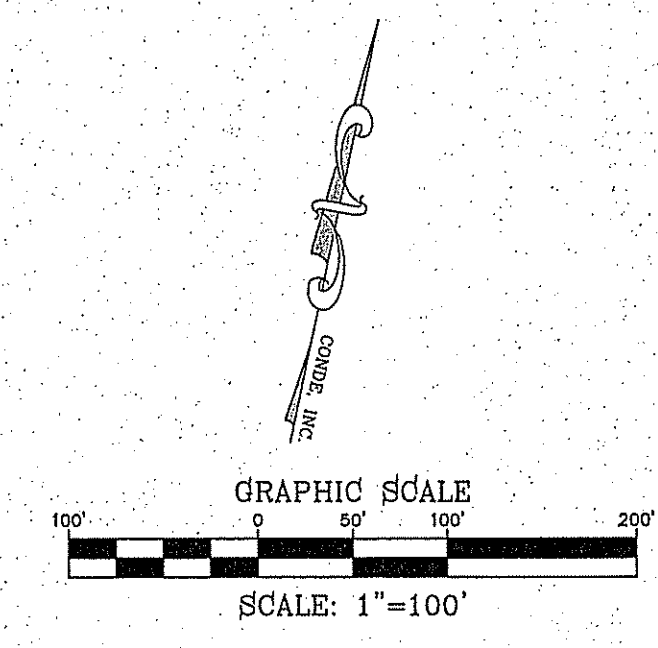
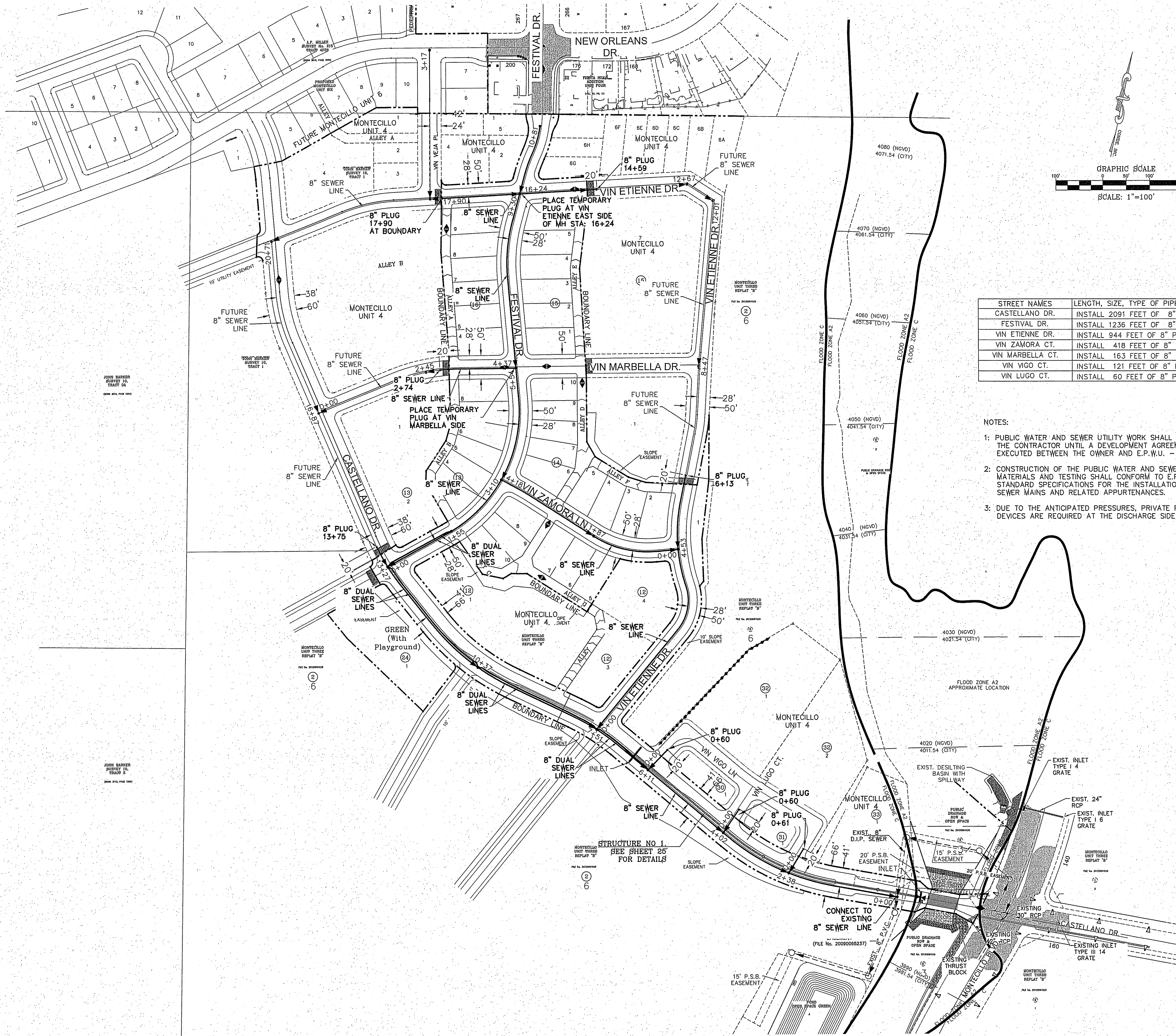
PROJECT NAME
MONTECILLO UNIT FOUR "A"
BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1, JOHN BARKER SURVEY 10, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 10.0568+ ACRES

| | |
|------------------------|---|
| SCALE | HORIZ: AS NOTED VERT: --- |
| ENGINEER'S SEAL | ENGINEER'S SEAL NOT REQUIRED. THIS SHEET IS PRODUCED FROM CITY DESIGN DIVISION DESIGN STANDARDS |
| DATE | NOV. 2013 |
| DESIGN BY | Y.C. |
| INITIATED BY | R.O. |
| CHECKED BY | Y.C. |
| JOB NO. | 316-45 |

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
STANDARD DETAILS



| STREET NAMES | LENGTH, SIZE, TYPE OF PIPE, PIPE CLASS |
|------------------|--|
| CASTELLANO DR. | INSTALL 2091 FEET OF 8" P.V.C. PIPE (SDR 35) |
| FESTIVAL DR. | INSTALL 1236 FEET OF 8" P.V.C. PIPE (SDR 35) |
| VIN ETIENNE DR. | INSTALL 944 FEET OF 8" P.V.C. PIPE (SDR 35) |
| VIN ZAMORA CT. | INSTALL 418 FEET OF 8" P.V.C. PIPE (SDR 35) |
| VIN MARBELLA CT. | INSTALL 163 FEET OF 8" P.V.C. PIPE (SDR 35) |
| VIN VIGO CT. | INSTALL 121 FEET OF 8" P.V.C. PIPE (SDR 35) |
| VIN LUGO CT. | INSTALL 60 FEET OF 8" 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 E.P.W.U. - P.S.B.
 - CONSTRUCTION OF THE PUBLIC WATER AND SEWER SYSTEM INCLUDING MATERIALS AND TESTING SHALL CONFORM TO E.P.W.U. - P.S.B. STANDARD SPECIFICATIONS FOR THE INSTALLATION OF WATER MAINS, SEWER MAINS AND RELATED APPURTENANCES.
 - DUE TO THE ANTICIPATED PRESSURES, PRIVATE PRESSURE REGULATING DEVICES ARE REQUIRED AT THE DISCHARGE SIDE OF EACH WATER METER.

BENCHMARK
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
 FESTIVAL DR. AND NEW ORLEANS DR.
 ELEVATION: 4137.81 (CITY DATUM)

DATE: 11-19-2014
 PSB REVISIONS: ADDED DUAL SEWER LINES
 R.O. 4-28-2015
 NEW STREET SECTIONS

PROJECT NAME
MONTECILLO UNIT FOUR "A"

BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2,
 MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1,
 JOHN BARBER SUBDIVISION, PASO COUNTY, TEXAS
 CONTAINING: 10.066± ACRES

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

DATE: NOV. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: J.C.
 JOB NO.: 315-45

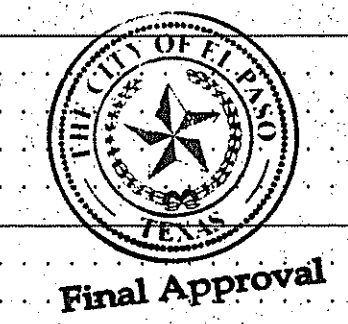
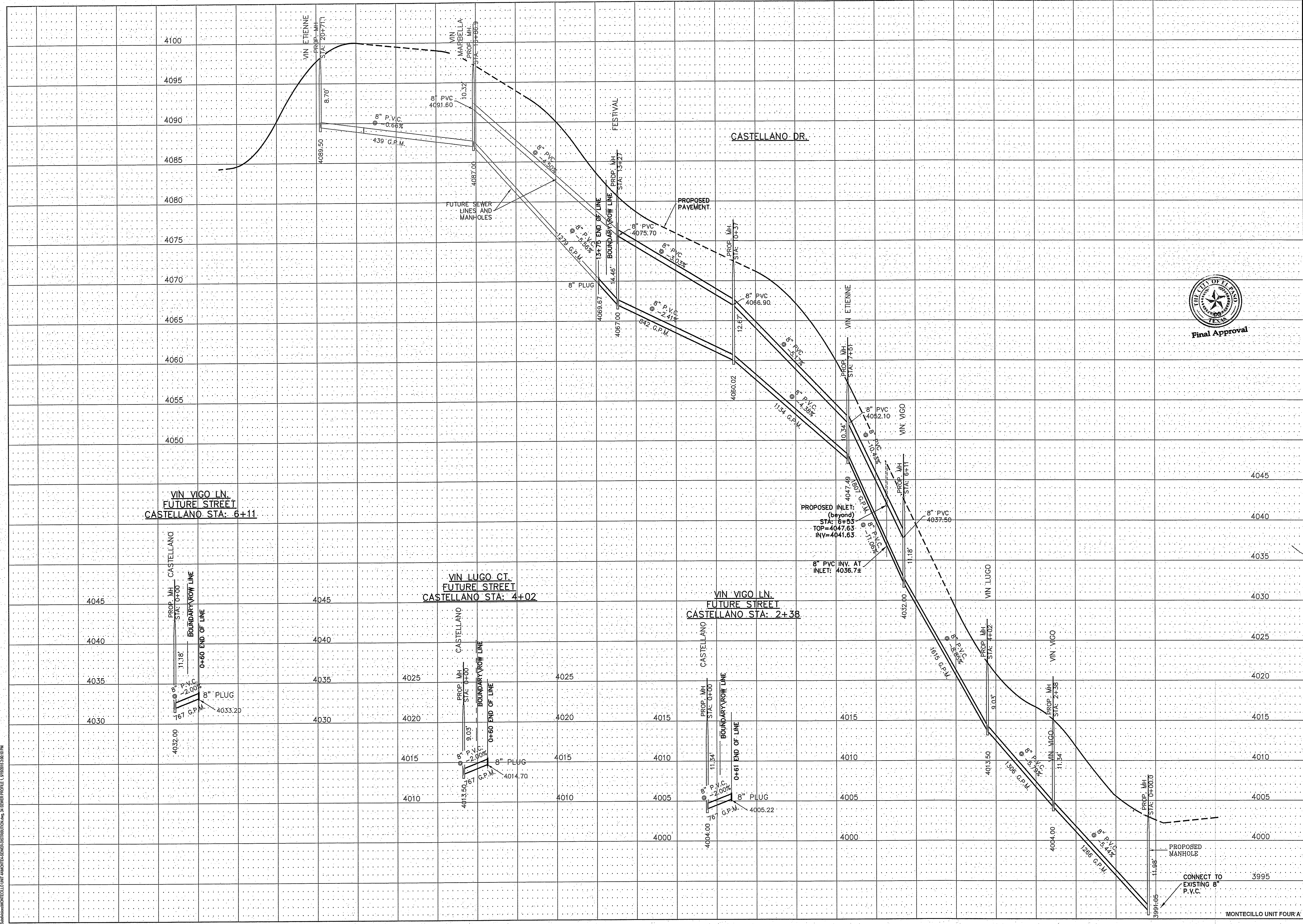
ENGINEER'S SEAL

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

CONDE INC.
 REGISTRATION No. F-2321

SHEET TITLE
SEWER DISTRIBUTION

SHT 33 OF 41



BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
FESTIVAL DR. AND NEW ORLEANS DR.
ELEVATION: 4137.81 (CITY DATUM)

| | | |
|------------|---------------|-----------------------|
| DATE | REVISIONS | BY |
| 11-19-2014 | PSB REVISIONS | R.O. |
| | --- | ADDED DUAL SEWER LINE |

PROJECT NAME
MONTECILLO UNIT FOUR "A"
BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2,
MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1,
JOHN BARKER SURVEY, 10
CITY OF EL PASO COUNTY, TEXAS
CONTAINING: 10.0682 ACRES

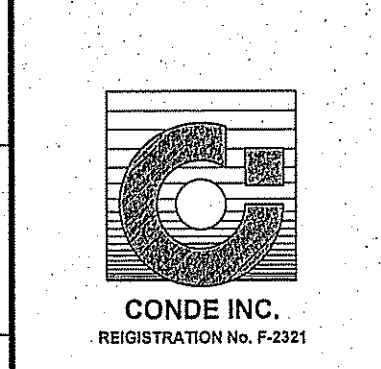
ENGINEER'S SEAL

STATE OF TEXAS
Y.C. CONDE
64648
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING

SCALES
HORIZ: 1"=100'
VERT: 1"=5'

DATE: NOV. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 315-45

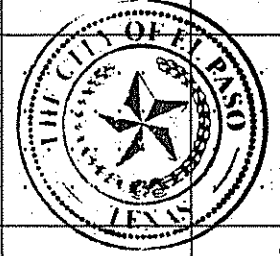
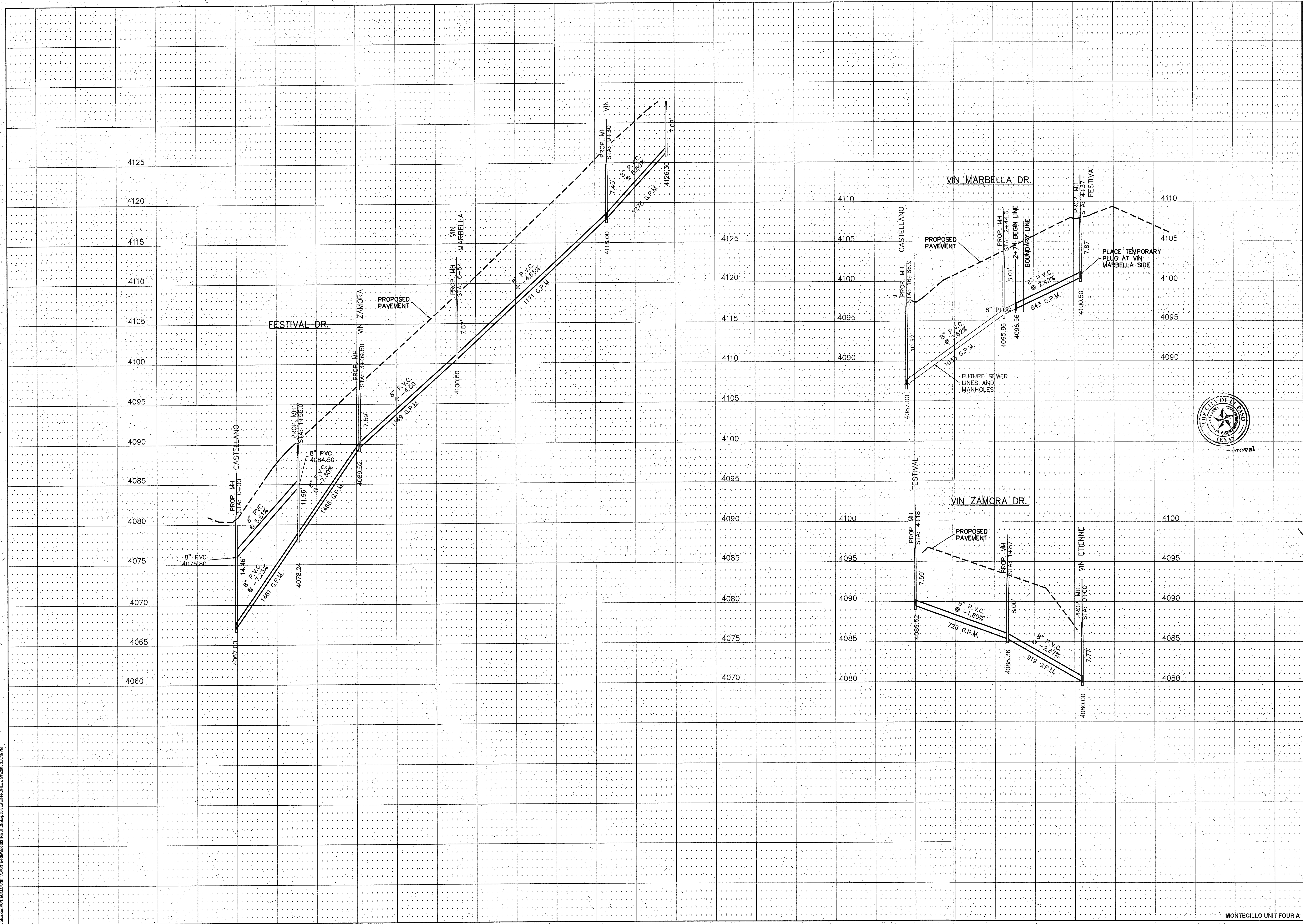
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286



SHEET TITLE
SEWER PROFILE
CASTELLANO
VIN VIGO
VIN LUGO

SHT 34 OF 41

S:\Submittal\MONTECILLO UNIT FOUR\SEWER\SEWER.DWG, 11/19/2014 10:28:14 AM



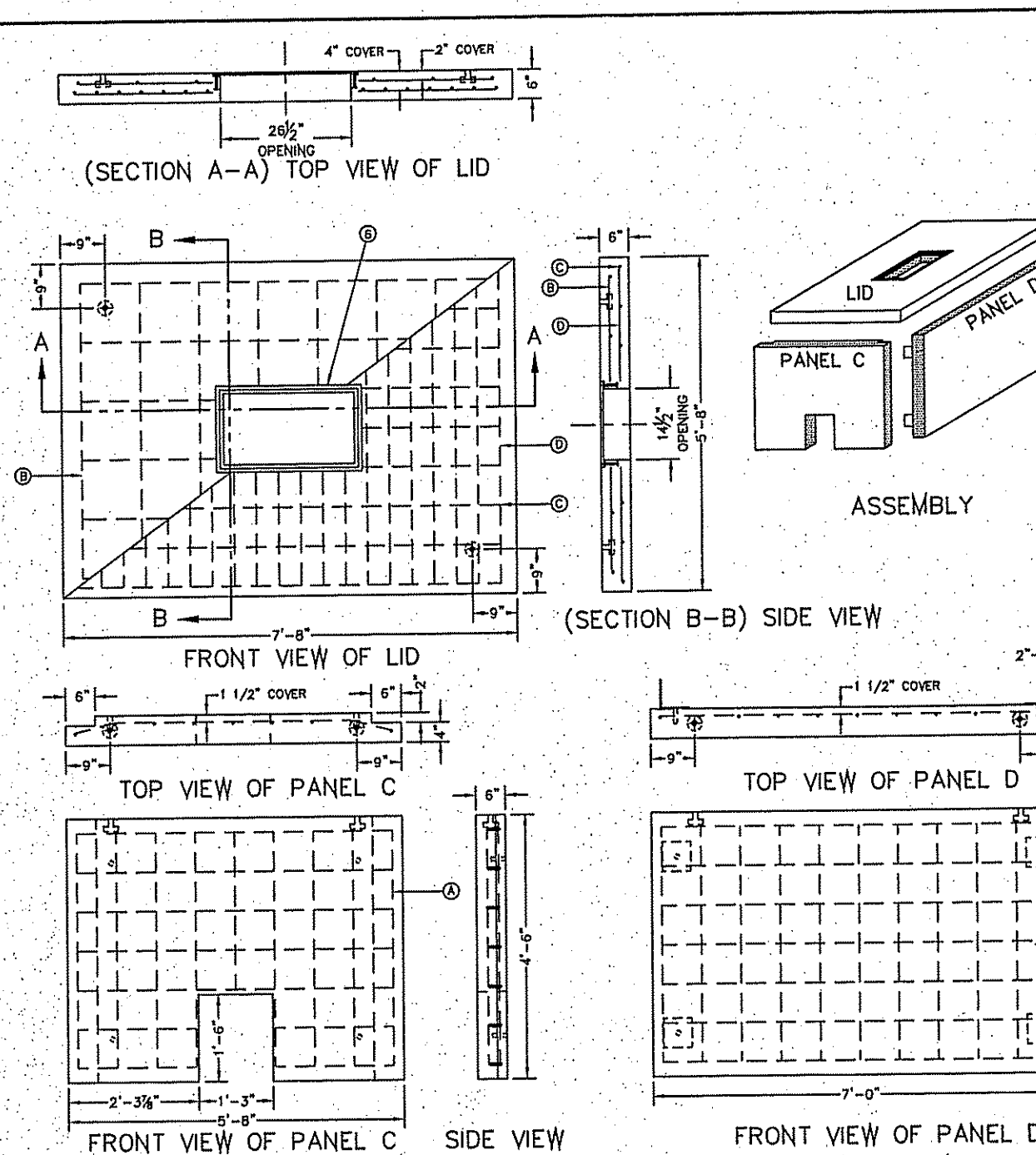
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|---|------------|
| CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR AND NEW ORLEANS DR. ELEVATION: 4137.81 (CITY DATUM) | |
| DATE | 11-19-2013 |
| BY | Y.C. |
| REVISIONS | --- |
| ADD'D DIAL SEWER LINE | --- |
| P&B REDLINES | --- |
| R.O. | --- |

PROJECT NAME
MONTECILLO UNIT FOUR "A"
 BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT BEING A PORTION OF TRACT 1, CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 10.058± ACRES

SCALE
 HORIZ: 1"=100'
 VERT: 1"=6'
 DATE: NOV. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 JOB NO.: 315-45

CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 6080 SURETY DR. SITE 00
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0283
 FAX: (915) 592-0286

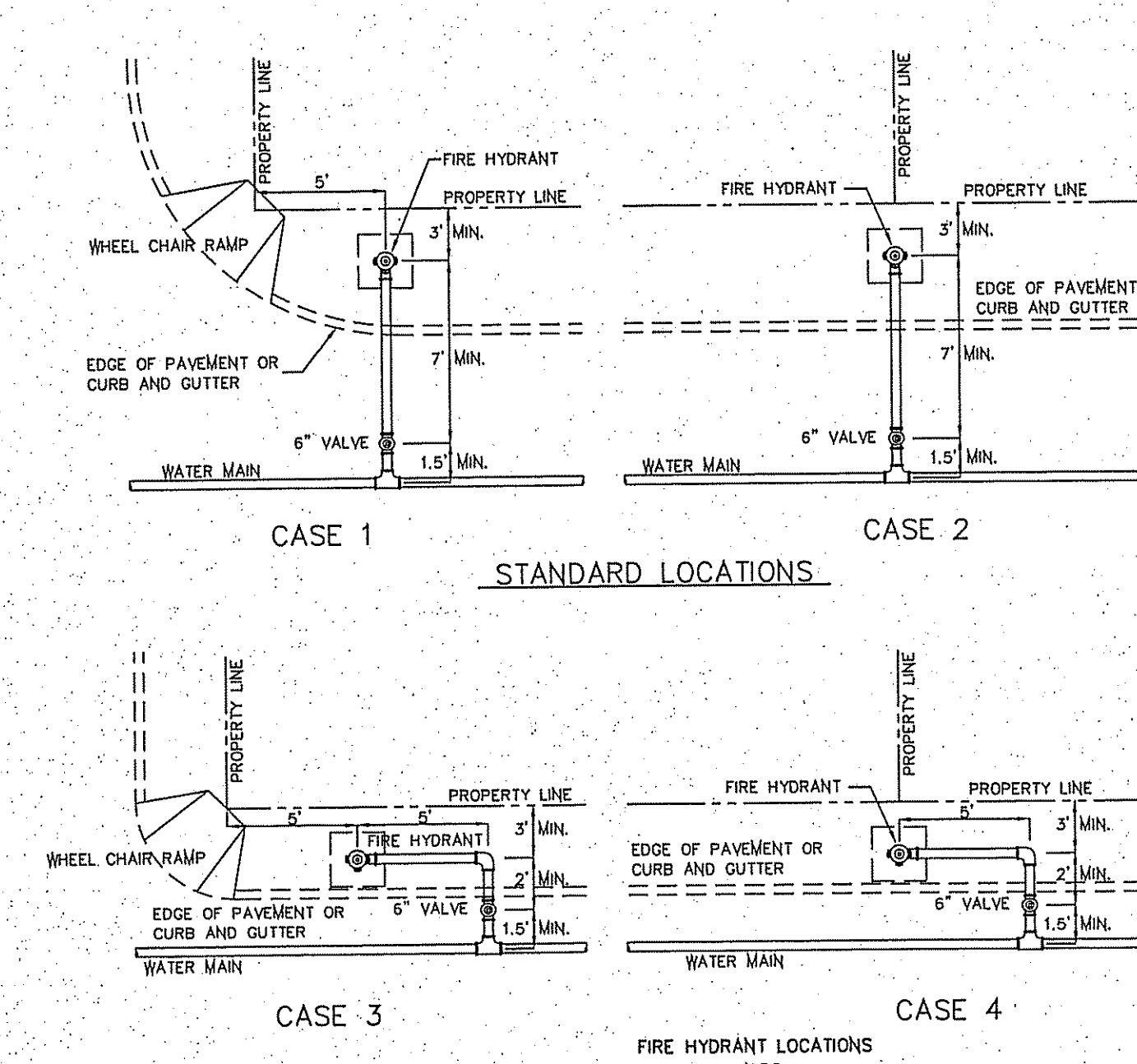
SHEET TITLE
SEWER PROFILE
FESTIVAL
VIN MARBELLA
VIN VEJA
VIN ZAMORA



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

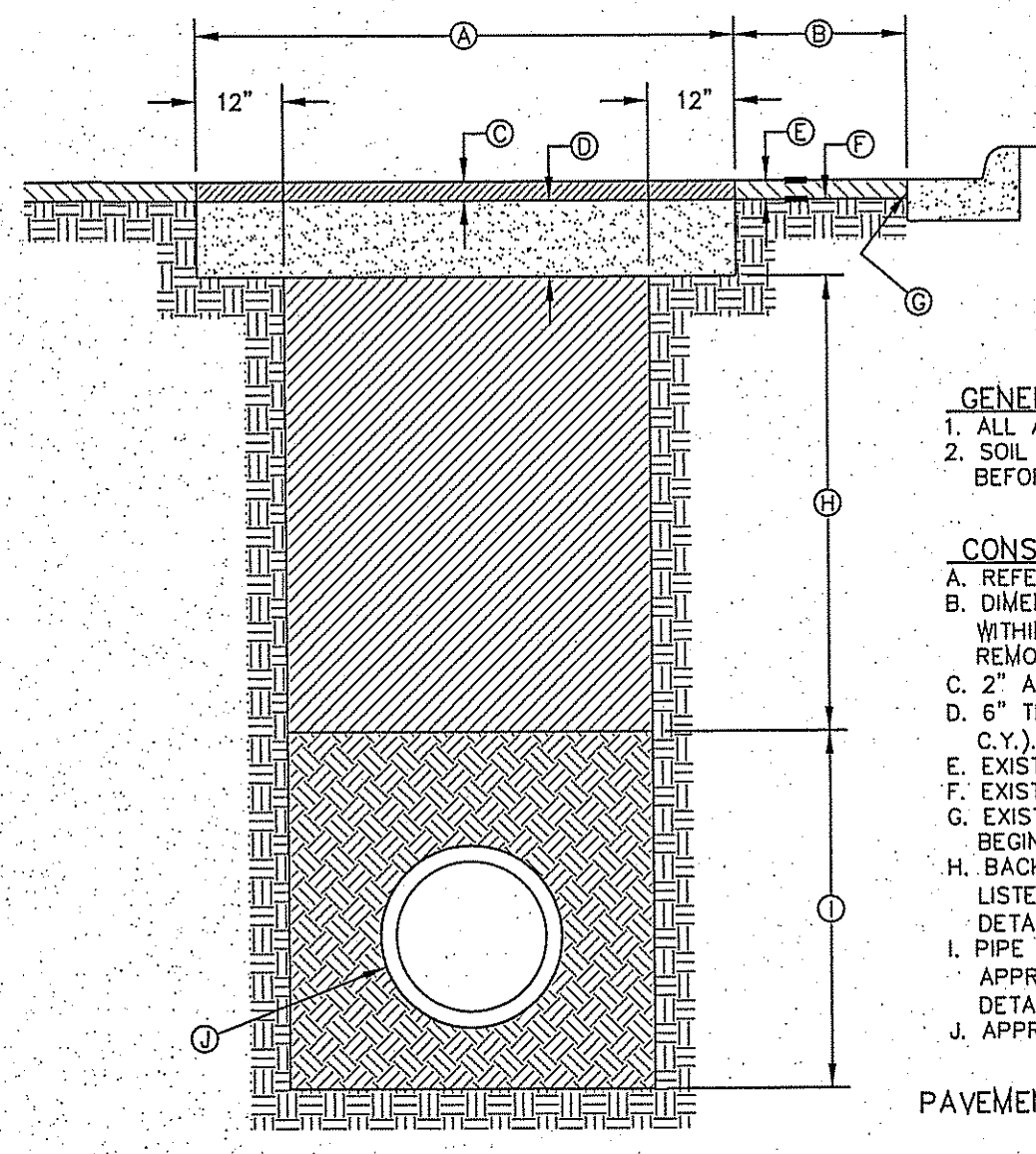
CONSTRUCTION KEY NOTES:
 A. No. 4 REBAR AT 8" ON CENTER, BOTH WAYS.
 B. No. 4 REBAR AT 12" ON CENTER, BOTH WAYS (TOP LAYER).
 C. No. 4 REBAR AT 8" ON CENTER, LONG SPAN (BOTTOM LAYER).
 D. No. 5 REBAR AT 4 1/2" ON CENTER, SHORT SPAN (BOTTOM LAYER).
 E. METER BOX FRAME (SEE DETAIL 302), INTEGRALLY CAST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

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



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

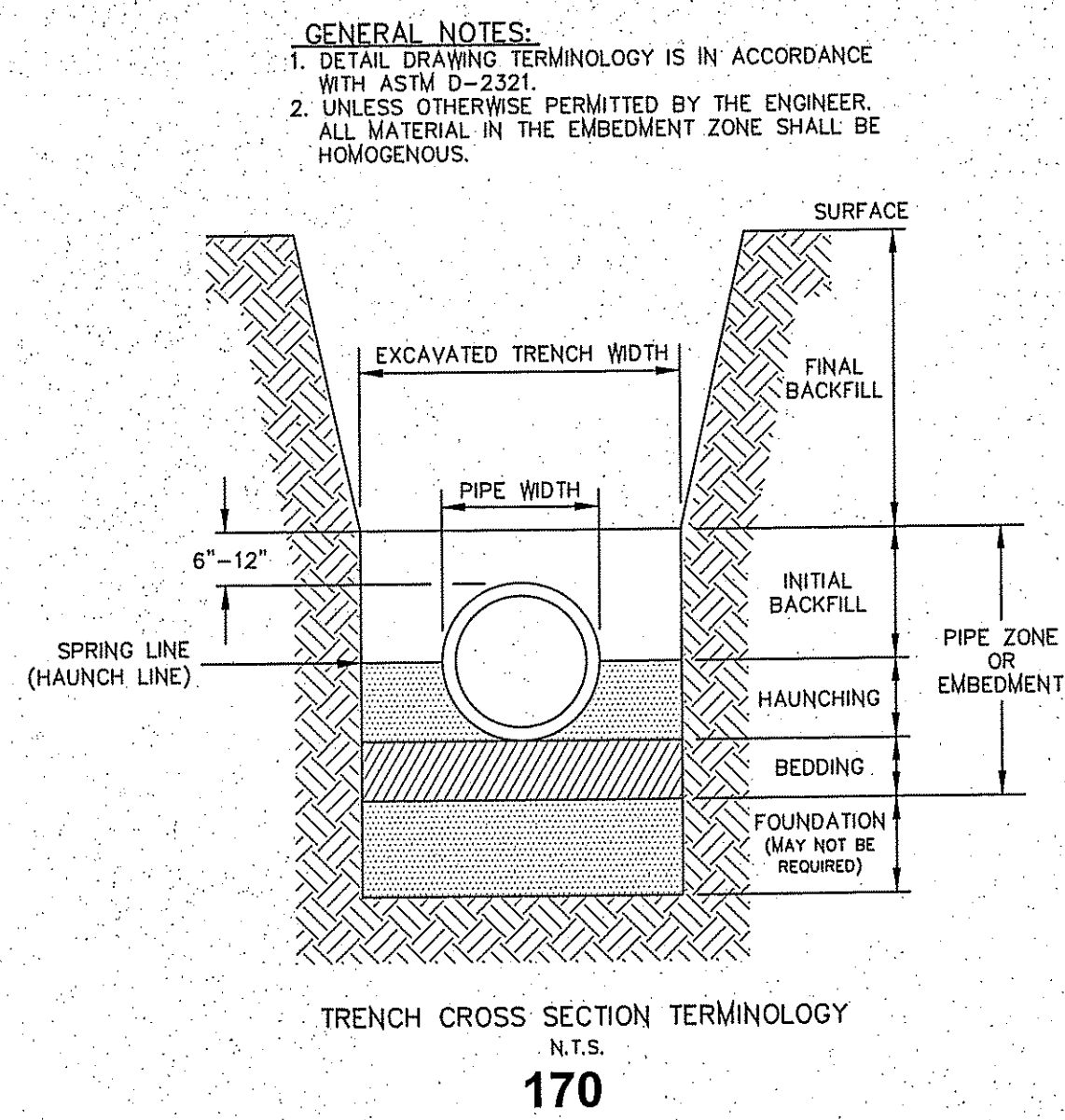
FIRE HYDRANT LOCATIONS
 N.T.S.
282



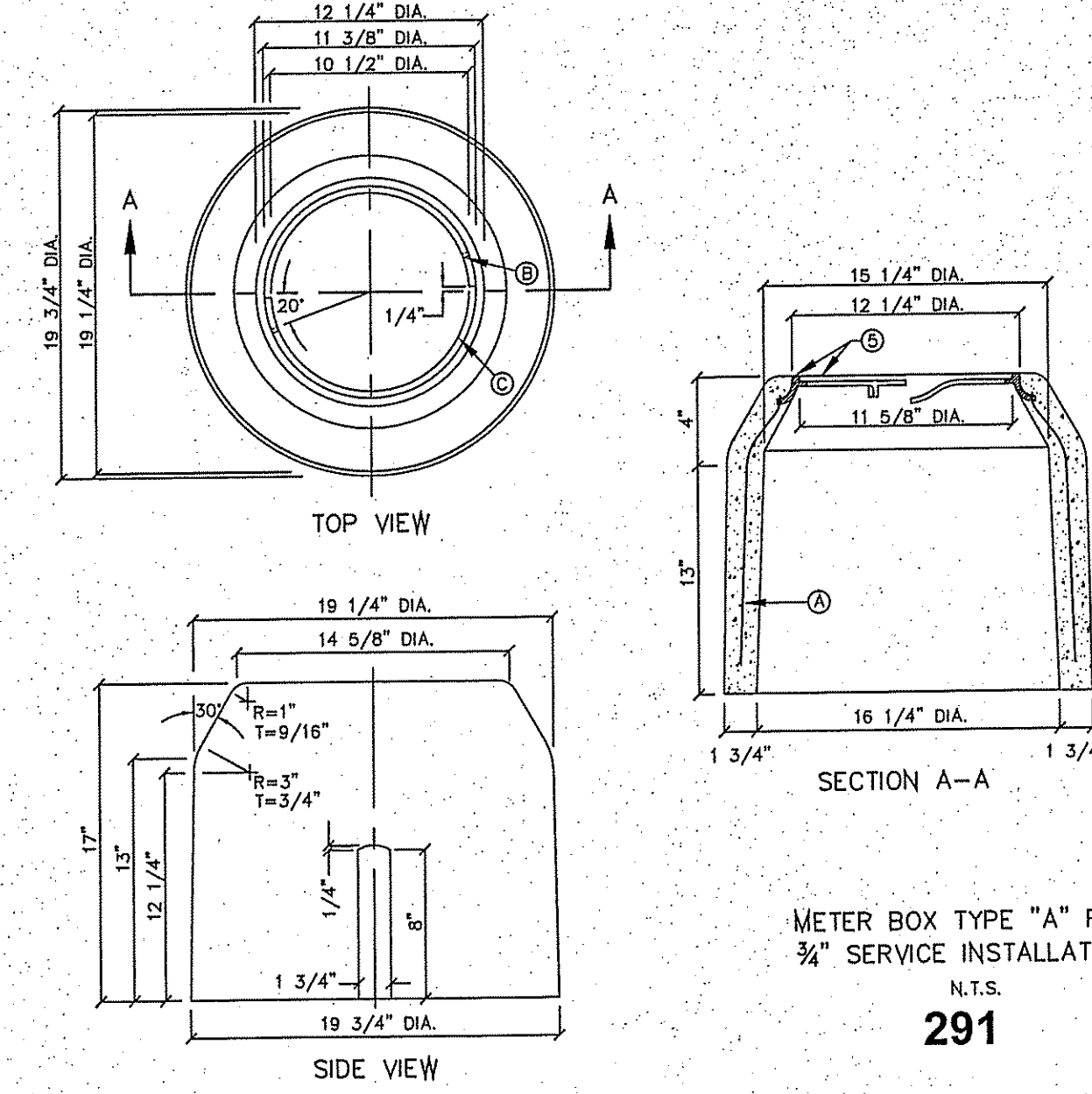
GENERAL NOTES:
 1. ALL ASPHALT CUTS MUST BE SAW CUT.
 2. SOIL CEMENT SLURRY SHALL BE ALLOWED TO CURE BEFORE PAVING OR OPENING TO ALL TRAFFIC.

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

PAVEMENT REPLACEMENT
 N.T.S.
179



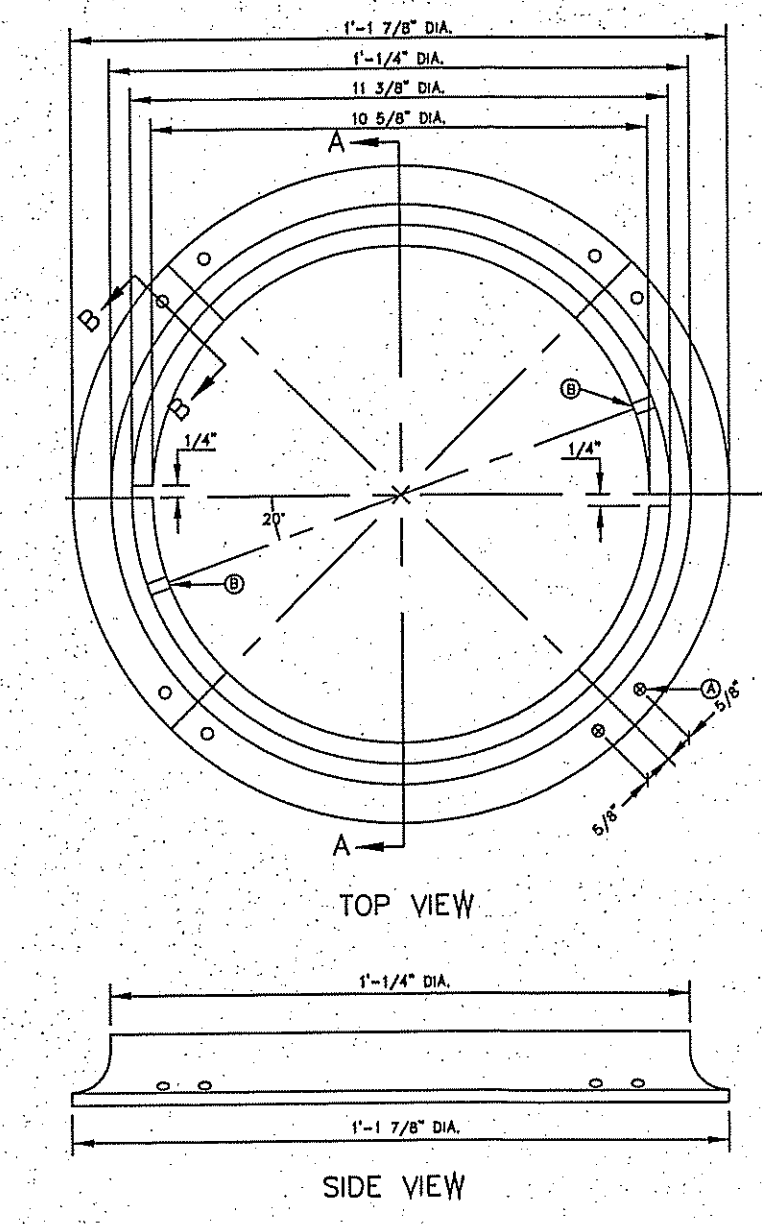
TRENCH CROSS SECTION TERMINOLOGY
 N.T.S.
170



GENERAL NOTES:
 1. INSTALL TO GRADE MATCHING TOP OF CURB.
 2. ANGLE VALVE SHALL BE IN LINE WITH THE INLET/OUTLET PORTS OF THE METER BOX.
 3. METER BOXES SHALL NOT BE INSTALLED UNDER SIDEWALKS, DRIVEWAYS, OR PROPOSED ABOVE GROUND STRUCTURES.
 4. WHERE NO CURBING EXISTS, INSTALL BOXES IN ACCESSIBLE LOCATIONS BEYOND LIMITS OF STREET SURFACING, WALKS AND DRIVEWAYS.
 5. METER BOX RING AND COVER PER EPIWU DETAILS 300 AND 301.
 6. WHEN IT IS NECESSARY TO INSTALL A TYPE "A" BOX FOR 3/4" METER UNDER ROADWAYS OF TRAFFIC BEARING SURFACES, BOX SHALL BE ENCASED IN 12" CONCRETE, 3000 PSI. MINIMUM.
 7. METER BOX SHALL BE SINGLE UNIT CONSTRUCTION; CONCRETE TO HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 4000 PSI.

CONSTRUCTION KEY NOTES:
 A. 3/16", 9 GAUGE BLACK ANNEALED WIRE
 B. LUG-STOP C. CAST IRON RING

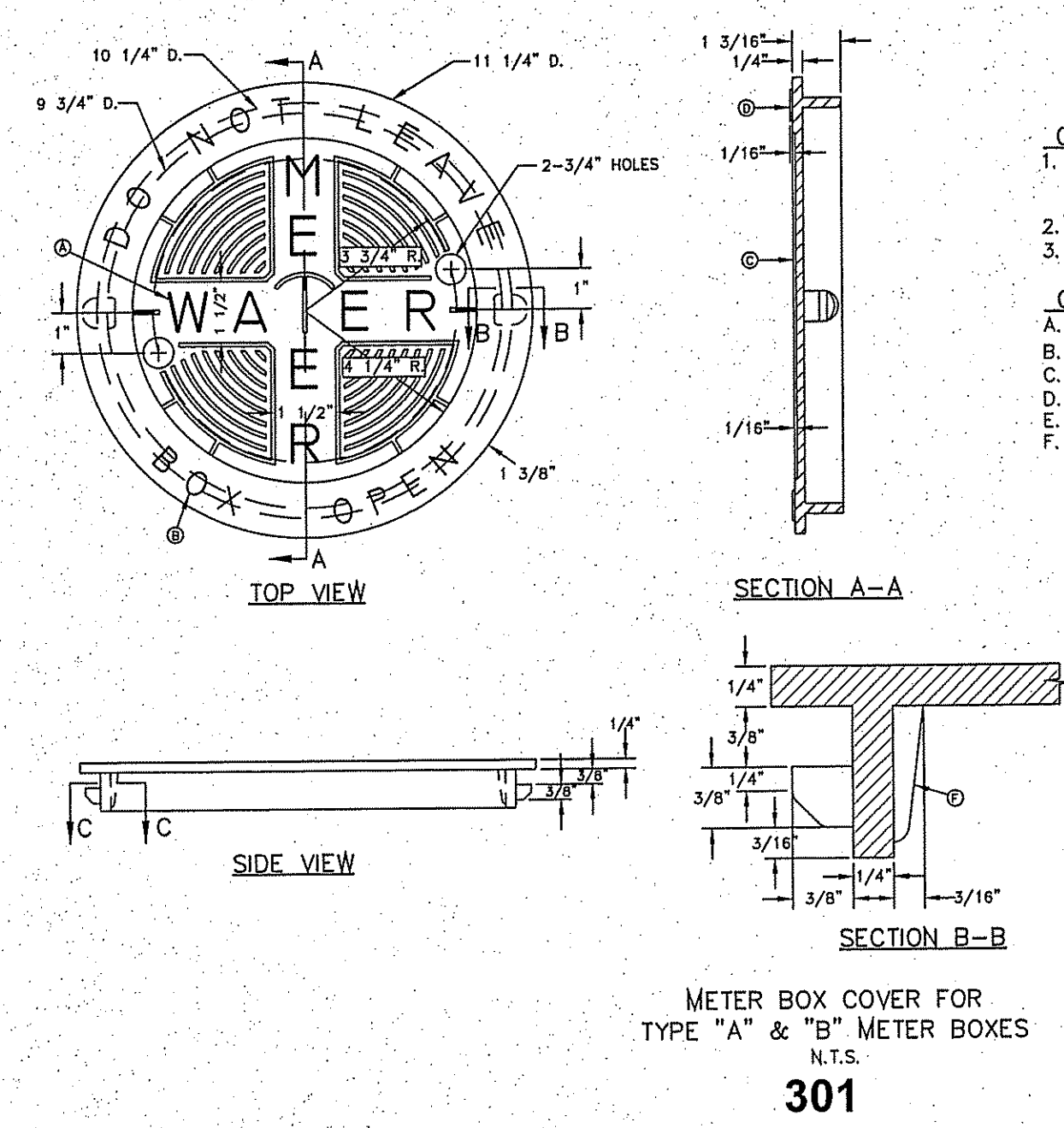
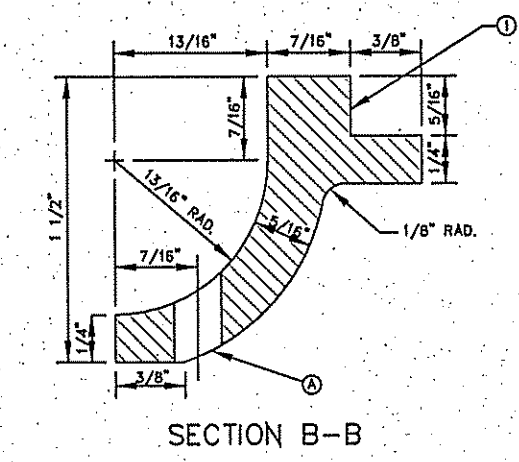
METER BOX TYPE "A" FOR 3/4" SERVICE INSTALLATION
 N.T.S.
291



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

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

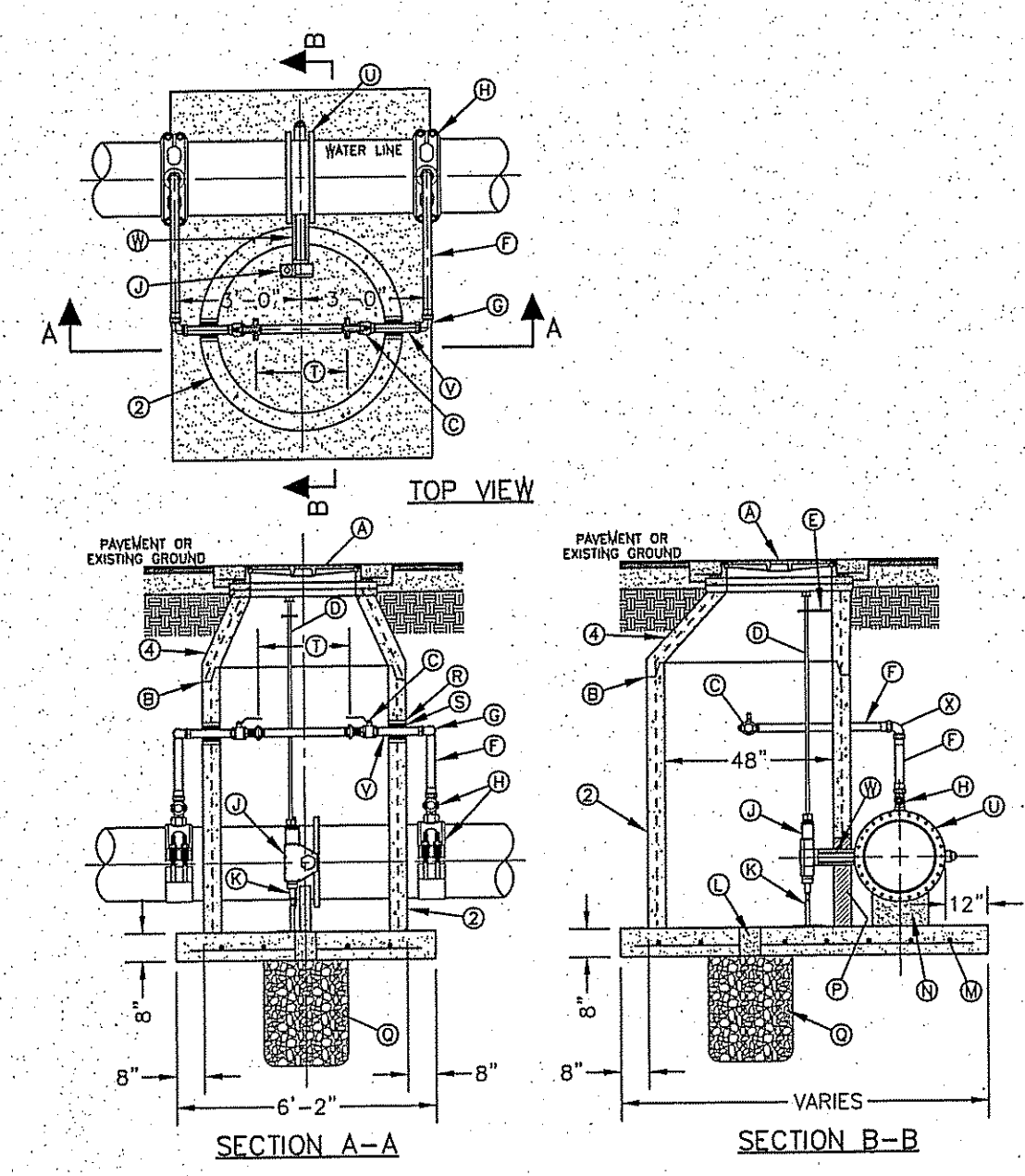
CONSTRUCTION KEY NOTES:
 A. 1/2" DIAMETER HOLES FOR ANCHORING RING TO CONCRETE METER BOX.
 B. LUG STOP
 C. LOCKING LUG SLIDE



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

GENERAL NOTES:
 1. MATCHING SURFACES TO BE ROUGH GROUND OF ANY IRREGULARITIES THAT WOULD PREVENT A SMOOTH FIT.
 2. SNUG FIT.
 3. CASTING TO BE SMOOTH AND VOID OF AIR.
 4. METER BOX COVER WEIGHT = 1 1/4 LBS.

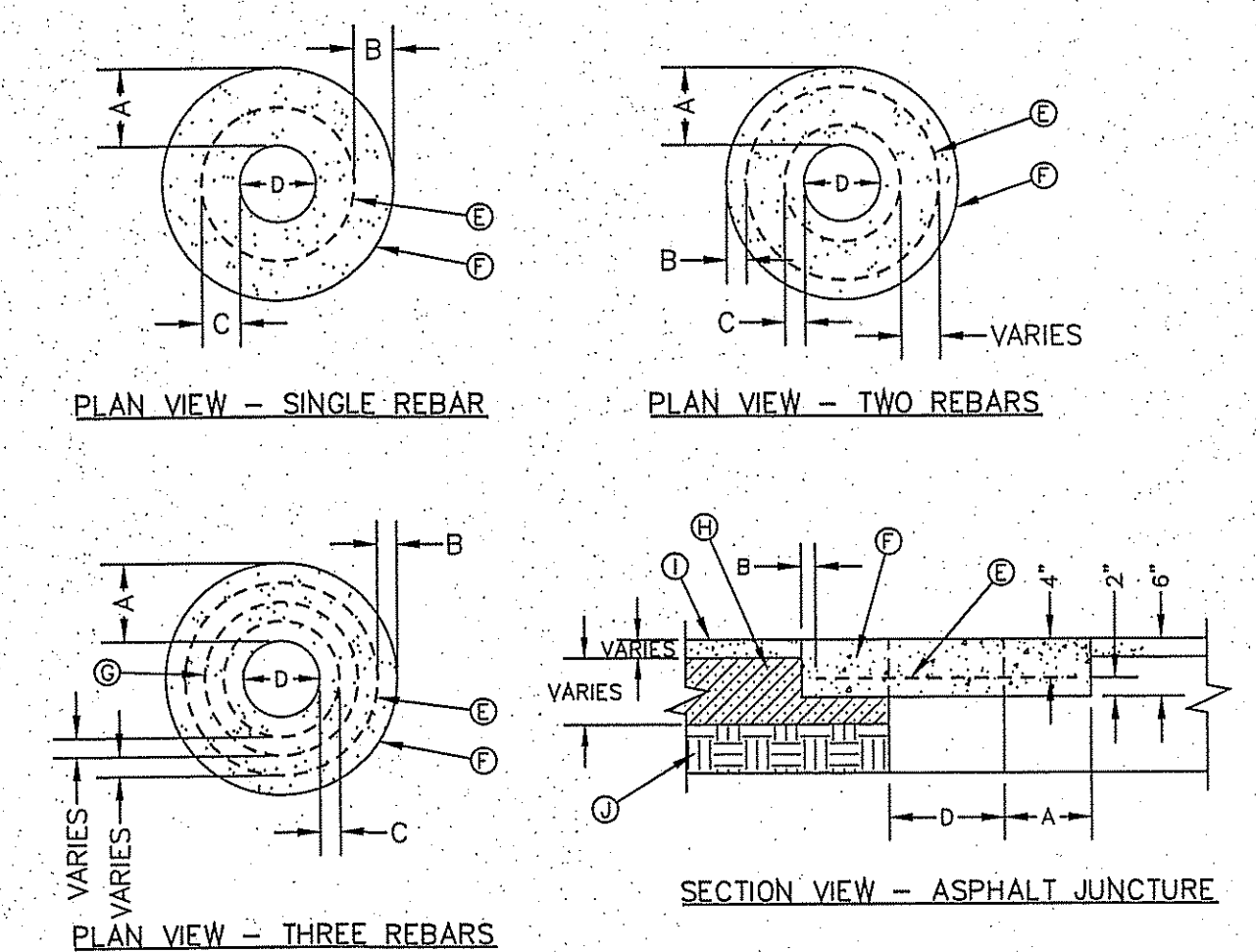
CONSTRUCTION KEY NOTES:
 A. LETTERS TO BE 1" HIGH, 3/4" WIDE, 1/8" THICK
 B. LETTERS TO BE 3/4" HIGH, 5/8" WIDE, 1/8" THICK
 C. INSIDE LETTERS & RIBS 1/4" TALL
 D. OUTSIDE LETTERS 1/2" TALL
 E. REINFORCE BACK OF LUG
 F. REINFORCEMENT



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

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

CONSTRUCTION KEY NOTES:
 A. MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
 B. ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.
 C. 2" BALL VALVE (NORMALLY CLOSED).
 D. 1/2" DIAMETER SOLID STEEL EXTENSION STEM WITH SQUARE SOCKET ON BOTTOM TO FIT 2" SQUARE VALVE NUT AND 2" SQUARE OPERATOR NUT ON TOP.
 E. ADJUSTABLE EXTENSION STEM GUIDE (AS PER DETAIL 261-3) @ 6' MAX. INTERVALS.
 F. 2" COPPER PIPE (TYPE-K).
 G. THREADED END TO FLARED END 90° ELBOW (TYP.).
 H. 20"x20" OR 16"x20" SADDLE TAP WITH 2" CORPORATION STOP.
 J. BUTTERFLY VALVE OPERATOR.
 K. ADJUSTABLE SUPPORT OR APPROVED EQUAL.
 L. 6" DIAMETER DRAIN HOLE FILLED WITH GRAVEL.
 M. #5 @ 12" O.C.W.E.
 N. CONCRETE SUPPORT.
 P. NOTCH MANHOLE SECTION FOR VALVE OPERATOR. FILL WITH BRICK AND MORTAR AFTER VALVE INSTALLATION.
 Q. 24" DIAMETER BY 2'-6" DEEP GRAVEL SUMP.
 R. CEMENT GROUT.
 S. 1" PHENOLIC ASPHALT EXPANSION JOINT.
 T. INSTALL A 2" DIA. BRASS SPOOL PIECE WITH FLANGED ENDS. ONE SPOOL PIECE TO BE PROVIDED FOR EACH BUTTERFLY VALVE LOCATION. PROVIDE A 1" THREADED OUTLET WITH PLUG ON SPOOL PIECE. ALL SPOOL PIECES TO BE PROVIDED WITH FULL FACE GASKEYS.
 U. BUTTERFLY VALVE.
 V. 2" BRASS NIPPLE PIECE (TYP.).
 W. VALVE OPERATOR EXTENSION - 12" LONG.
 X. FLARED END TO FLARED END 90° ELBOW (TYP.).



| "D" DIAMETER OF PENETRATION | NUMBER OF #3 REINFORCING STEEL BARS | "A" MINIMUM CONCRETE HORIZONTAL DIMENSION FROM PENETRATION | "B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE COLLAR TO CENTER OF NEAREST REBAR | "C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR |
|-----------------------------|-------------------------------------|--|---|--|
| 0" TO 6" | 1 | 6" | 1 1/2" | 4 1/2" |
| 6.1" TO 16" | 2 | 6" | 1 1/2" | 1 1/2" |
| 16.1" AND OVER | 3 | 6" | 1 1/2" | 1 1/2" |

PENETRATION APRON

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

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

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

PROJECT NAME: MONTECILLO UNIT FOUR "A"
 CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR.
 ELEVATION: 4137.81 (CITY DATUM)

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

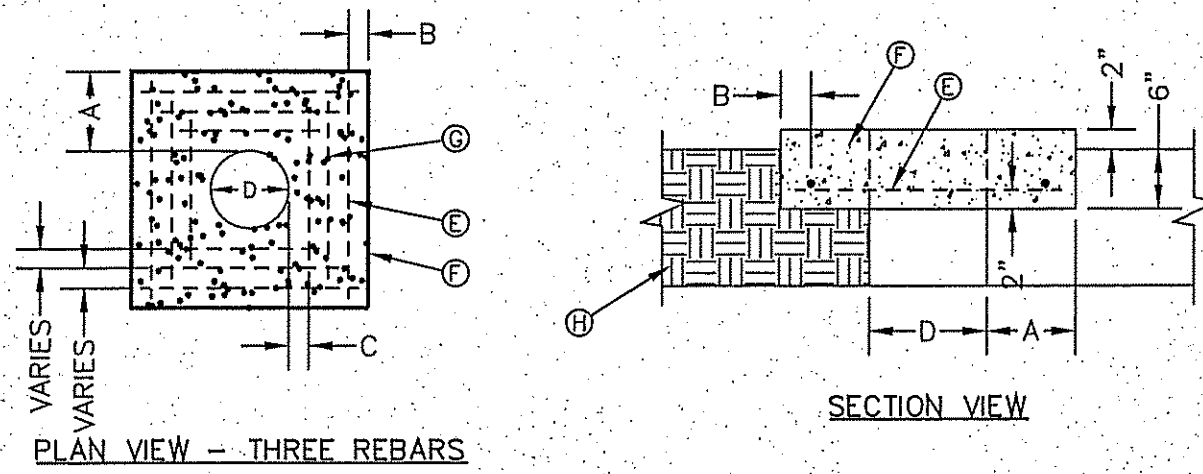
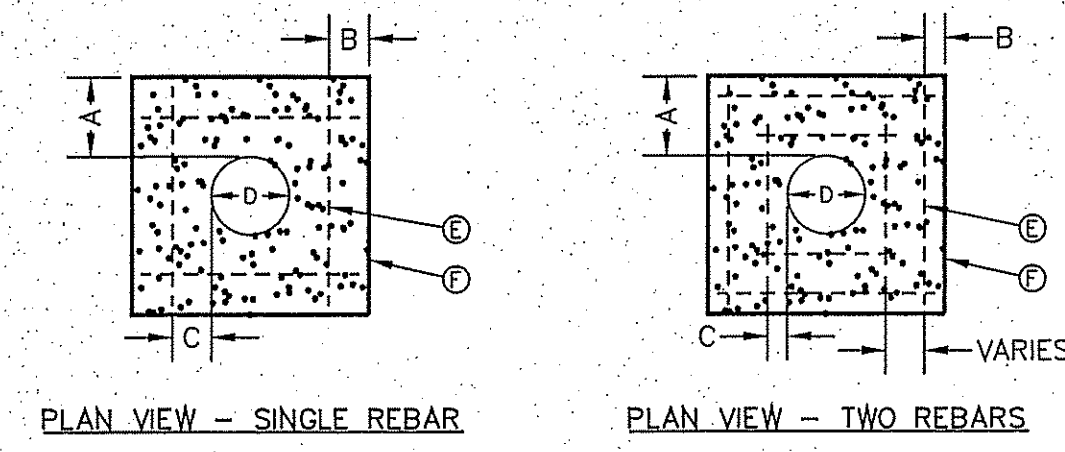
SHEET TITLE: WATER & SEWER NOTES AND DETAILS
 SHT 38 OF 41

BENCHMARK: CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR.
 ELEVATION: 4137.81 (CITY DATUM)

DATE: 1-27-2012
 REVISIONS: PSB REJUNES

JOB NO.: 315-45

SCALE: ---
 HORIZ: ---
 VERT: ---
 DATE: NOV. 2013
 DESIGN BY: Y.C.
 INITIATED BY: R.O.
 CHECKED BY: Y.C.
 CONTAINING: 10,068± ACRES

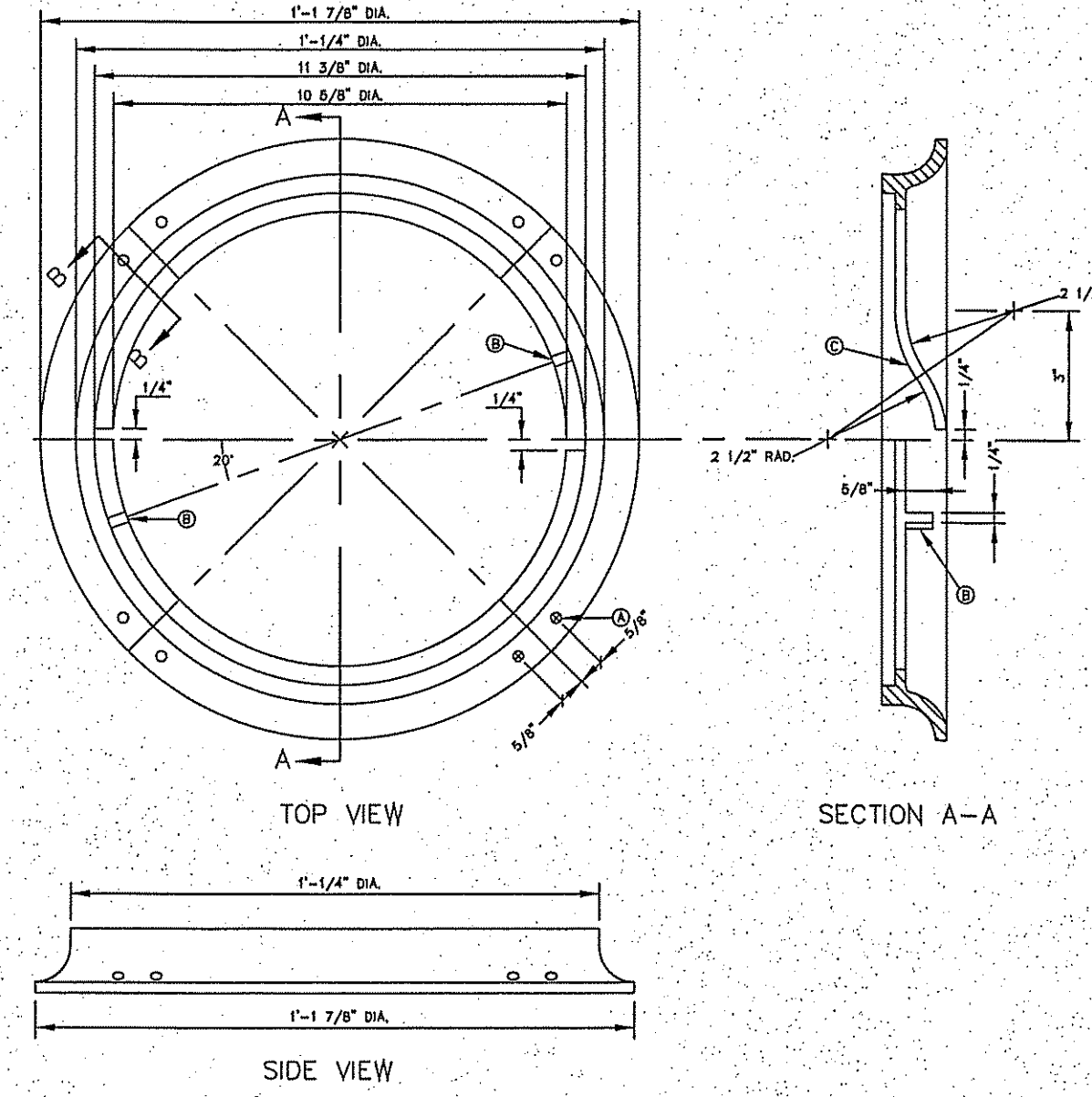


| "D" DIAMETER OF PENETRATION | NUMBER OF #3 REINFORCING STEEL BARS | "A" MINIMUM CONCRETE HORIZONTAL DIMENSION FROM PENETRATION | "B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE APRON TO CENTER OF NEAREST REBAR | "C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR |
|-----------------------------|-------------------------------------|--|--|--|
| 0" TO 6" | 1 | 4" | 1 1/2" | 4 1/2" |
| 6.1" TO 18" | 2 | 6" | 1 1/2" | 1 1/2" |
| 18.1" AND OVER | 3 | 8" | 1 1/2" | 1 1/2" |

CONCRETE APRON IN PAVED AREAS
DET: 184-2

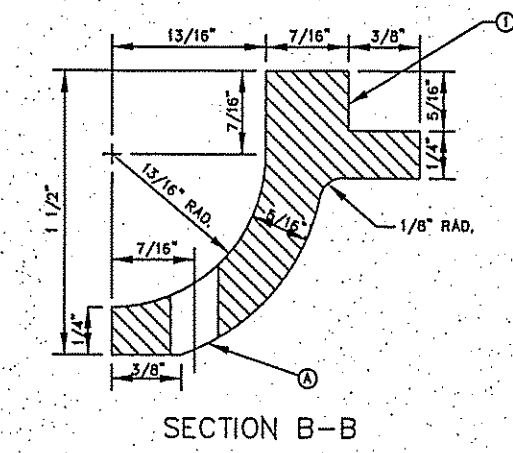
- GENERAL NOTES:**
1. THE CONCRETE APRON SHOULD BE CAST IN-PLACE CONCRETE (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI. HIGH EARLY CONCRETE IS REQUIRED).
 2. TOPS OF CONCRETE APRON SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
 3. PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL.
 4. REINFORCING SHALL MEET ASTM C-478 AND TRAFFIC LOADING (HS-20).
 5. NO. 3 REBARS SPACED EQUALLY MAY BE LAP TIED OR SQUARE HOOPS.

- CONSTRUCTION KEY NOTES:**
- E. #3 REINFORCING STEEL TYP.
 - F. CONCRETE APRON.
 - G. #3 REINFORCING STEEL EQUALLY SPACED.
 - H. COMPACTED BACKFILL.

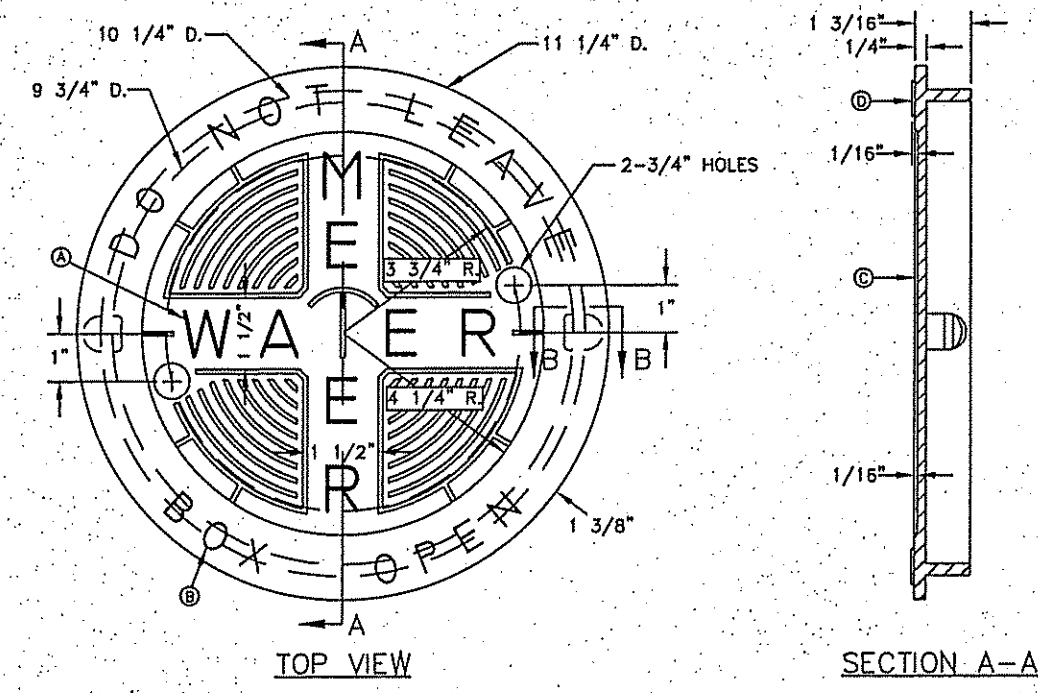


- GENERAL NOTES:**
1. MATCHING SURFACES TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH AND VOID OF AIR HOLES.
 3. METER BOX RING WEIGHT = 7 LBS.
 4. METER BOX RING MADE OF CAST IRON.

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

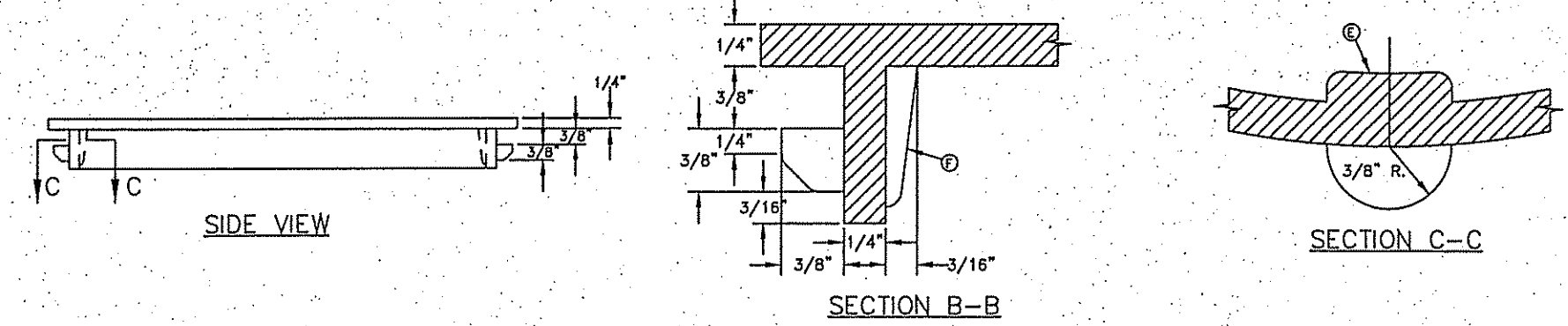


METER BOX RING FOR
TYPE "A" & "B" METER BOXES
DET: 300



- GENERAL NOTES:**
1. MATCHING SURFACES TO BE ROUGH GROUND OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH AND VOID OF AIR.
 3. METER BOX COVER WEIGHT = 1 1/4 LBS.

- CONSTRUCTION KEY NOTES:**
- A. LETTERS TO BE 1" HIGH, 3/4" WIDE, 1/8" THICK
 - B. LETTERS TO BE 3/4" HIGH, 1/2" WIDE, 1/8" THICK
 - C. INSIDE LETTERS & RIBS 1/8" TALL
 - D. OUTSIDE LETTERS 1/8" TALL
 - E. REINFORCE BACK OF LUG
 - F. REINFORCEMENT



METER BOX COVER FOR
TYPE "A" & "B" METER BOXES
DET: 301



BENCHMARK

CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR.
ELEVATION: 4137.61 (CITY DATUM)

| | |
|-----------|-------------|
| DATE | BY |
| 1-27-2012 | RO |
| | REVISIONS |
| | PSB REDUCES |

PROJECT NAME

MONTECILLO UNIT FOUR "A"

BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1, MONTECILLO UNIT JOHN BARKER SURVEY 10, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING 10.068± ACRES

S C A L E

| | |
|---------------|-----------|
| HORIZ: | --- |
| VERT: | --- |
| DATE: | NOV. 2013 |
| DESIGN BY: | Y.C. |
| INITIATED BY: | R.O. |
| CHECKED BY: | Y.C. |
| JOB NO.: | 315-45 |

ENGINEER'S SEAL

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

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

WATER DETAILS

EL PASO WATER UTILITY
DETAILS NUMBERS:
184-2, 300, 301

B:\Sd\elmontecillo\UNIT 4\MONTICELLO\WATER\DETAILS\184-2, 300, 301.DWG, 31 MAR 2013 10:07 AM

WATER AND SEWER NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TCEQ AND EL PASO WATER UTILITIES DESIGN STANDARDS AND SPECIFICATIONS WHEN CONFLICTS ARE NOTED WITH LOCAL STANDARDS. THE MORE STRINGENT SHALL BE APPLIED. CONSTRUCTION FOR PUBLIC WATER SYSTEMS MUST ALWAYS, AT A MINIMUM, MEET TCEQ'S RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS.
2. PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS/HER AUTHORIZED REPRESENTATIVE SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE CONSULTING ENGINEERS REPRESENTATIVE, CONTRACTOR(S), PSB ENGINEER, EL PASO COUNTY (IF APPROPRIATE), THE PSB AND ANY OTHER AFFECTED PARTIES. NOTIFY ALL SUCH PARTIES AT LEAST 48 HOURS PRIOR TO THE TIME OF THE CONFERENCE AND 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
3. THE CONTRACTOR SHALL GIVE THE ENGINEER, CITY, AND THE PSB A MINIMUM OF 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION, PUBLIC WATER AND SEWER UTILITY WORK, INCLUDING TIE-INS SHALL NOT BE PERFORMED UNTIL A DEVELOPMENT AGREEMENT HAS BEEN EXECUTED BETWEEN THE OWNER AND EPWU-PSB. WORK SHALL BE COORDINATED WITH EPWU-PSB FIELD ENGINEER AT LEAST 48 HOURS PRIOR TO COMMENCING ANY PUBLIC UTILITY WORK.
4. ANY EXISTING PAYMENT, CURBS AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE BEFORE ACCEPTANCE OF THE WORK.
5. THE LOCATION OF ANY WATER AND/OR WASTEWATER LINES TO BE CROSSED OR CONNECTED TO SHALL BE VERIFIED BY THE CONTRACTOR AT THE TIME OF COMMENCEMENT OF CONSTRUCTION.
6. CONTRACTORS SHALL VERIFY EXACT DEPTH AND LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, DRIVEWAYS, PAVEMENT, CURB & GUTTER, SIDEWALKS, ETC. SHALL BE REPAIRED BY THE CONTRACTOR, OR THE UTILITY, AT UTILITIES OPTION, AND CONTRACTOR, OR THE UTILITY, AT UTILITIES OPTION, AND SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
7. ALL WATER MAINS SHALL HAVE A MINIMUM 48 INCHES OF COVER FROM FINISHED GRADE OR 40 INCHES BELOW ACTUAL SUBGRADE UNLESS OTHERWISE DENOTED ON THE PLANS.
8. CONTACT THE EL PASO WATER UTILITIES AND ANY OTHER CONCERNED PARTIES 48 HOURS PRIOR TO CONNECTING TO EXISTING WATER AND/OR WASTEWATER LINES.
9. ALL FILL AREAS OVER ALL UTILITIES, SHALL BE COMPACTED TO 96 % STANDARD PROCTOR DENSITY IN ACCORDANCE WITH TEX 113-B METHOD.
10. WATER AND WASTEWATER ALIGNMENTS SHOWN ON THE PLANS SHOULD BE ACHIEVED BY DEFLECTION WITHIN THE MANUFACTURER'S SPECIFICATIONS, EXCEPT WHERE SPECIFIC FITTINGS ARE CALLED FOR THE PLANS.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING UTILITIES SUCH AS GAS LINES, ELECTRIC LINES, WATERLINES, VALVE BOXES, FIRE HYDRANTS, STRUCTURES, AND OTHER APPURTENANCES THAT LIE WITHIN THE RIGHT-OF-WAY OR BASEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ALL UTILITIES, DRIVEWAYS, PAVEMENT, CURB, GUTTER, SIDEWALKS, FENCES AND OTHER ITEMS DAMAGED DURING CONSTRUCTION REGARDLESS OF WHETHER ALL ITEMS ARE SHOWN ON THE PLANS AT HIS SOLE EXPENSE. IN ADDITION TO NORMAL PRECAUTIONS WHEN EXCAVATING, TAKE EXTRA CAUTION WHEN EXCAVATING WITHIN 25 FT. OF ANY UTILITIES SHOWN ON THE PLANS.
12. THE CONTRACTOR SHALL INCLUDE ADDITIONAL FLUSHING VALVES AND TEST CONNECTIONS NECESSARY TO PERFORM TEST AND STERILIZATION OPERATION.
13. ALL CONSTRUCTION ACTIVITIES, INCLUDING ACCESS, EGRESS, TRAVEL, STOCKPILING, ETC. ARE TO BE CONFINED TO AREAS IDENTIFIED BY THE ENGINEER.
14. DISPOSAL OF ALL SPOIL OFFSITE WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
15. PIPE FITTINGS AND JOINTS: WATER PIPE-PVC SDR 14, C-900, CL-360 WITH BOLTTLESS GASKETED JOINTS AND C.I., M.J. OR FLANGED PIPE FITTINGS UNLESS OTHERWISE SHOWN ON THE PLANS; FLUSHING VALVE / FIRE HYDRANTS LEAD - DUCTILE IRON, CLASS 50, MECHANICAL JOINTS AND C.I. (C.I. ENDS) FITTINGS UNLESS OTHERWISE SHOWN ON THE PLANS; GRAVITY SEWER - PVC SDR 35 AND SDR 26 UNLESS OTHERWISE NOTED. ALL PIPES, FITTINGS, VALVES, HYDRANTS, AND OTHER APPURTENANCES TO BE USED ON THE INSTALLATION OF PUBLIC SYSTEMS SHALL CONFORM TO THE MATERIALS AND DIMENSIONS DEPICTED ON CURRENT EPWU-PSB STANDARD DETAILS.
16. ALL GATE VALVES SHALL HAVE RESILIENT VALVE SEATS.
17. AT ALL LOCATIONS WHERE A WATERLINE CROSSES A WASTEWATER LINE, THE CONSTRUCTION SHALL STRICTLY COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS OF THE TCEQ, TCEQ SPECIFICATIONS FOR LOCATION OF WATERLINES AS REQUIRED IN TITLE 30 TAC, CHAPTER 290.44(e) (RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS) ARE MINIMUM REQUIREMENTS.
18. THE CONTRACTOR SHALL FURNISH THE ENGINEER ONE SET OF AS-BUILT PLANS REFLECTING ALL CHANGES MADE IN THE FIELD, AND TWO MEASUREMENTS TO ALL VALVES AND MANHOLES INSTALLED FROM PERMANENT OBJECTS.
19. THE PSB AND THE ENGINEER SHALL BE GIVEN 48 HOURS NOTICE PRIOR TO ANY TESTING THRESHOLD (DENSITY, PRESSURE, LEAKAGE, ETC.)
20. MANHOLE CONSTRUCTION AND REHABILITATION: ALL MANHOLES ARE WATERTIGHT, WITH WATERTIGHT RINGS AND COVERS. IF MANHOLES ARE WITHIN THE 100-YEAR FLOODPLAIN THE MANHOLE COVERS SHALL HAVE GASKETS AND BE BOLTED. WHERE GASKETED MANHOLE COVERS ARE REQUIRED FOR MORE THAN THREE MANHOLES IN SEQUENCE, ALTERNATE MEANS OF VENTING SHALL BE PROVIDED. BRICKS ARE NOT AN ACCEPTABLE CONSTRUCTION MATERIAL FOR ANY PORTION OF THE MANHOLE PER 30 TAC 66317.2 (G)(F).
21. CONSTRUCTION OF PUBLIC WATER AND SEWER SYSTEM INCLUDING MATERIALS AND TESTING SHALL CONFORM WITH EPWU-PSB STANDARD SPECIFICATIONS FOR THE INSTALLATION OF WATER MAINS, SANITARY SEWER MAIN AND RELATED APPURTENANCES.

ALL MANHOLES MUST BE TESTED TO MEET OR EXCEED THE FOLLOWING REQUIREMENTS:

MANHOLES AND WET WELLS MUST BE TESTED SEPARATELY AND INDEPENDENTLY OF THE COLLECTION LINES. ALL MANHOLES MUST BE HYDROSTATICALLY TESTED WITH A MAXIMUM-LOSS ALLOWANCE OF 0.025-GALLON PER FOOT DIAMETER PER FOOT OF HEAD PER HOUR. OTHER TESTING METHODS, SUCH AS VACUUM TESTING, MAY BE APPROVED ON A CASE-BY-CASE BASIS BY THE EXECUTIVE DIRECTOR OF THE TCEQ.

22. ALL 8" SEWER LINES SHALL BE TESTED USING THE FOLLOWING METHOD:

- A. ALL LOW PRESSURE AIR SHALL CONFORM TO THE PROCEDURES DESCRIBED IN ASTM C-828, ASTM C-824, OR OTHER APPROPRIATE PROCEDURES. THE TIME FOR THE PRESSURE TO DROP SHALL BE AT LEAST AS STRINGENT AS THE REQUIREMENTS OF TCEQ RULES SECTION 317.2(A)(4)(B) DESCRIBED BELOW.

FOR SECTIONS OF PIPE UP TO 36-INCHES AVERAGE INSIDE DIAMETER MINIMUM TIME ALLOWABLE FOR THE PRESSURE TO DROP FROM 2.5 POUND PER SQUARE INCH GAUGE TO 2.5 POUNDS PER SQUARE INCH GAUGE SHALL BE COMPUTED FROM THE FOLLOWING EQUATION:

T = 0.0850(D)(K) / (Q); WHERE T = TIME FOR PRESSURE TO DROP 1.0 POUND PER SQUARE INCH GAUGE IN SECONDS.
K = 0.00419(D)(L), BUT NOT LESS THAN 1.0
D = AVERAGE INSIDE DIAMETER IN INCHES
L = LENGTH OF LINE IN FEET OF SAME SIZE BEING TESTED
Q = RATE OF LOSS, 0.0016 CUBIC FEET PER MINUTE PER SQUARE FOR INTERNAL SURFACE SHALL BE USED.

SINCE A K VALUE OF LESS THAN 1.0 SHALL NOT BE USED, THERE ARE MINIMUM TIMES FOR EACH PIPE DIAMETER AS OUTLINED BELOW:

Table with 4 columns: PIPE DIA. (IN), MIN. TIME (SEC), LEN. FOR MIN (FT), TIME FOR LONGER LENGTH (SEC). Rows include diameters from 6 to 36 inches.

- B. ALL INFILTRATION/EXFILTRATION TESTS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS. THE TOTAL INFILTRATION OR EXFILTRATION, AS DETERMINED BY WATER TEST, MUST BE AT A RATE NOT GREATER THAN 60 GALLONS PER INCH OF PIPE DIAMETER PER MILE OF PIPE PER 24 HOURS. A MINIMUM TEST OF TWO FEET IF THE QUANTITY OF INFILTRATION OR EXFILTRATION EXCEEDS THE MAXIMUM QUANTITY SPECIFIED. REMEDIAL ACTION MUST BE UNDERTAKEN IN ORDER TO REDUCE THE INFILTRATION OR EXFILTRATION TO AN AMOUNT WITHIN THE LIMITS SPECIFIED IN 30 TAC SEC 317.2 (A)(4)(A).

- C. DEFLECTION TEST SHALL BE PERFORMED ON ALL FLEXIBLE AND SEMI-RIGID PIPES. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF FIVE PERCENT. IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL, SUCH TEST DEVICE SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES. THE DESIGN ENGINEER SHOULD RECOGNIZE THAT THIS IS A MAXIMUM DEFLECTION CRITERION FOR ALL PIPES. A REDUCED PERCENT DEFLECTION MAY BE MORE APPROPRIATE FOR SPECIFIC TYPES AND SIZES OF PIPE. REFERENCE 30 TAC SEC 317.2 (A)(4)(A).

- 22. THE BEDDING AND BACKFILL FOR FLEXIBLE PIPE SHALL COMPLY WITH THE STANDARDS OF ASTM D-2321, CLASSIFIED I OR II. FOR RIGID PIPE BEDDING SHALL COMPLY WITH THE REQUIREMENTS OF ASTM-C-12 CLASSIFIED A OR B. REFERENCE 30 TAC 6317.2.A.6

- 23. 8" SEWER LINES SHALL BE TESTED FROM MANHOLE TO MANHOLE OR WHEN A NEW 8" SEWER LINE IS CONNECTED TO AN EXISTING STUB OR CLEAN-OUT, IT SHALL BE TESTED FROM AN EXISTING MANHOLE TO A NEW MANHOLE.
24. WATER LINE/NEW 8" SEWER LINE SEPARATION: WHEN NEW SANITARY SEWERS ARE INSTALLED, THEY SHALL BE INSTALLED NO CLOSER TO WATER LINES THAN NINE FEET IN ALL DIRECTIONS. SEWERS THAT PARALLEL WATER LINES MUST BE INSTALLED IN SEPARATE TRENCHES, WHERE THE TEN (10) FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING GUIDELINES APPLY:
A. WHERE A SANITARY SEWER PARALLELS A WATER LINE, THE SEWER SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC MEETING ASTM SPECIFICATION WITH A PRESSURE RATING FOR BOTH THE PIPE AND JOINTS OF 150 PSI. THE VERTICAL SEPARATION SHALL BE A MINIMUM OF TWO FEET BETWEEN OUTSIDE DIAMETERS AND THE HORIZONTAL SEPARATION SHALL BE A MINIMUM OF FOUR FEET BETWEEN OUTSIDE DIAMETERS. THE SEWER SHALL BE LOCATED BELOW THE WATER LINE.
B. WHERE A SANITARY SEWER CROSSES A WATER LINE AND THE SEWER IS CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI, AN ABSOLUTE MINIMUM DISTANCE OF 6 INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. IN ADDITION THE SEWER SHALL BE LOCATED BELOW THE WATER LINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATER LINE.
C. WHERE A SEWER CROSSES UNDER A WATER LINE AND THE SEWER IS CONSTRUCTED OF ABS TRUSS PIPE, SIMILAR SEMI-RIGID PLASTIC COMPOSITE PIPE, CLAY PIPE OR CONCRETE PIPE WITH GASKETED JOINTS, A MINIMUM TWO FOOT SEPARATION DISTANCE SHALL BE MAINTAINED. THE INITIAL BACKFILL SHALL BE CEMENT STABILIZED SAND (TWO OR MORE BAGS OF CEMENT PER CUBIC YARD OF SAND) FOR ALL SECTIONS OF SEWER WITHIN NINE FEET OF THE WATER LINE. THIS INITIAL BACKFILL SHALL BE FROM ONE QUARTER DIAMETER BELOW THE CENTERLINE OF THE PIPE TO ONE PIPE DIAMETER (BUT NOT LESS THAN 12 INCHES) ABOVE THE TOP OF THE PIPE.
D. WHERE A SEWER CROSSES OVER A WATER LINE ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATER LINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 150 PSI USING APPROPRIATE ADAPTERS. IN LIEU OF THIS PROCEDURE, THE NEW CONVEYANCE MAY BE ENCASED IN A JOINT OF 160 PSI PRESSURE CLASS PIPE AT LEAST 18-FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT 6 FEET INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. THE ENCASEMENT PIPE SHALL BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.
E. UNLESS MANHOLES CAN BE MADE WATERTIGHT AND TESTED FOR NO LEAKAGE THEY MUST BE INSTALLED SO AS TO PROVIDE A MINIMUM OF NINE FEET OF HORIZONTAL CLEARANCE FROM AN EXISTING OR PROPOSED WATER LINE. IF THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE WATERLINE MUST BE ENCASED IN A JOINT OF 160 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE WATERLINE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT 6 FOOT INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. THE ENCASEMENT PIPE SHALL BE CENTERED BETWEEN CROSSINGS AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.
27. SEWERS SHALL BE LAID IN STRAIGHT ALIGNMENT WITH UNIFORM GRADE BETWEEN MANHOLES. DEVIATION FROM STRAIGHT ALIGNMENT AND UNIFORM GRADE SHALL BE APPROVED ONLY ON A CASE BY CASE BASIS BY THE TCEQ. IF APPROVAL IS GIVEN FOR DEVIATION FROM STRAIGHT ALIGNMENT AND UNIFORM GRADE, CURRENT COMMISSION POLICY REGARDING HORIZONTAL CURVATURE SHALL BE COMPLIED WITH FULLY.

GENERAL NOTES FOR CURVED 8" SEWER LINES:

- A. ALL CURVATURE OF SEWER PIPE WILL BE ACHIEVED BY PIPE DEFLECTION PER THE MANUFACTURE R'S RECOMMENDED PROCEDURE
B. IN-PLACE DEFLECTION TESTS (MANDREL TEST) MUST BE PERFORMED ON ALL FLEXIBLE AND SEMI-RIGID PIPE IN ACCORDANCE WITH 30 TAC SEC317.2 (A)(4)(C).
C. INFILTRATION TEST SHALL BE CONDUCTED IN ACCORDANCE WITH 30 TAC SEC317.2 (A)(4)(A) - 60 GALLONS PER INCH OF DIAMETER PER MILE OF PIPE.
D. SPECIFIC CARE SHALL BE TAKEN TO ENSURE THAT THE JOINT IS PLACED IN THE CENTER OF THE TRENCH AND PROPERLY BEDDED IN ACCORDANCE WITH 30 TAC SEC 317.2 (A)(4)(G).
28. THE ASTM, ANSI, OR AWWA SPECIFICATION NUMBERS FOR THE PIPE AND JOINTS ARE ASTM D3034 & ASTM 2241. THE PIPE MATERIAL, THE PRESSURE CLASS, AND THE SDR AND/OR DR DESIGNATIONS ARE SDR 35 AND SDR 26.
29. THE DIAMETER OF THE MANHOLES SHALL BE A MINIMUM OF FOUR FEET AND THE MANHOLE COVERS SHALL HAVE A MINIMUM NOMINAL DIAMETER OF 30". THESE DIMENSIONS ARE LABELED ON THE MANHOLE DRAWING ON THE DETAIL SHEET.
30. THE MANHOLE DETAILS SHALL INSURE THAT THE TCEQ RULES CONCERNING SEWER INVERTS HAVE BEEN COMPLIED WITH AS DESCRIBED IN 317.2(C)(6)(E).
31. A CROSS SECTION OF THE TRENCH DETAILS IS INCLUDED IN THE PLANS WHICH SHOW THE DIMENSIONS OF THE TRENCH AND PIPE AND THE CLASS OF BEDDING MATERIAL REQUIRED.
32. AFTER THE PIPE HAS BEEN INSTALLED AND CONNECTED, A PRESSURE TEST, FOLLOWED BY A LEAKAGE TEST, WILL BE CONDUCTED BY THE CONTRACTOR UNDER THE OBSERVATION OF THE ENGINEER. THE CONTRACTOR SHALL BE PRESENT AND SHALL FURNISH ALL NECESSARY LABOR AND EQUIPMENT FOR CONDUCTING THE TESTS. THE SPECIFIED TEST PRESSURES WILL BE BASED ON THE ELEVATION OF THE LOWEST POINT OF THE LINE OR SECTION UNDER TEST. BEFORE APPLYING THE SPECIFIED TEST PRESSURE, ALL AIR SHALL BE EXPELLED FROM THE PIPE. IF PERMANENT AIR VENTS ARE NOT LOCATED AT ALL HIGH POINTS, THE CONTRACTOR SHALL INSTALL CORPORATION COCKS AT SUCH POINTS. ALL DRAIN HYDRANT AND FIRE HYDRANT LEADS, WITH THE MAIN 6-INCH GATE VALVE OPEN, THE HYDRANT VALVE SEATS CLOSED AND NOZZLE CAPS OPEN, SHALL BE INCLUDED IN THE TEST.

- A. PRESSURE TEST: THE ENTIRE PROJECT OF EACH VALVED SECTION SHALL BE TESTED, AT A PRESSURE OF 200 PSI FOR A SUFFICIENT PERIOD (APPROXIMATELY 10 MINUTES) TO DISCOVER ANY LEAKING OR DEFECTIVE MATERIALS. REPAIRS SHALL BE MADE BY THE CONTRACTOR TO CORRECT ANY LEAKING OR DEFECTIVE MATERIALS.
B. PRESSURE PIPE LEAKAGE TEST: A LEAKAGE TEST WILL FOLLOW THE PRESSURE TEST AND BE CONDUCTED ON THE ENTIRE PROJECT OR EACH VALVED SECTION. THE LEAKAGE TEST SHALL BE AT 150 PSI FOR AT LEAST 1 HOUR, UNLESS OTHERWISE SPECIFIED.

- 1. ALLOWABLE LEAKAGE: LEAKAGE SHALL BE DEFINED AS THE QUANTITY OF WATER THAT MUST BE SUPPLIED INTO THE PIPE SECTION BEING TESTED TO MAINTAIN A PRESSURE WITHIN 5 PSI OF THE SPECIFIED LEAKAGE-TEST PRESSURE AFTER THE PIPE HAS BEEN FILLED WITH WATER AND THE AIR IN THE PIPELINE HAS BEEN EXPELLED. NO INSTALLATION WILL BE ACCEPTED IF THE LEAKAGE IS GREATER THAN THAT DETERMINED BY THE FORMULA:

LEAKAGE = 7,400 / (N * D * P)
WHERE: L = ALLOWABLE LEAKAGE, IN GALLONS PER HOUR
N = NUMBER OF JOINTS IN THE LENGTH OF PIPELINE TESTED
D = NOMINAL DIAMETER OF THE PIPE, IN INCHES
P = AVERAGE TEST PRESSURE DURING THE LEAKAGE TEST, IN POUNDS PER SQUARE INCH (GAUGE)

- 2. LOCATING AND CORRECTION OF LEAKAGE: IF SUCH TESTING DISCLOSES LEAKAGE IN EXCESS OF THIS SPECIFIED AMOUNT ALLOWABLE, THE CONTRACTOR, AT HIS EXPENSE, SHALL LOCATE AND CORRECT ALL DEFECTS IN THE PIPE LINE UNTIL THE LEAKAGE IS WITHIN THE INDICATED ALLOWANCE. ALL VISIBLE LEAKAGE IN PIPE SHALL ALSO BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.

TCEQ NOTES:

- A. THE WATERLINES MUST BE DISINFECTED BEFORE USING ACCORDING TO THE CURRENT STANDARD, AWWA C951-92. A MINIMUM OF ONE BACTERIOLOGICAL SAMPLE MUST BE COLLECTED FOR EACH 1,000 FEET OF COMPLETED WATERLINE TO CHECK EFFICIENCY OF DISINFECTION PROCEDURES AND MUST BE REPEATED IF CONTAMINATION PERSISTS AS PER 290.44(f)(3).
B. ALL NEWLY INSTALLED PIPE AND FITTINGS MUST CONFORM TO ANSI/NSF STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI. ALL PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST ALSO BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF-PW) AS PER 290.44(a)(1) AND (2).
C. THE SYSTEM MUST MAINTAIN A MINIMUM PRESSURE OF 35 PSI AT ALL POINTS WITHIN THE DISTRIBUTION NETWORK AT FLOW RATES OF AT LEAST 1.6 GALLONS PER MINUTE PER CONNECTION. WHEN THE SYSTEM IS INTENDED TO PROVIDE FIRE FIGHTING CAPABILITY, IT MUST ALSO MAINTAIN A MINIMUM PRESSURE OF 20 PSI UNDER COMBINED FIRE AND DRINKING WATER FLOW CONDITIONS AS REQUIRED IN 290.44(d) OF THE RULES.

TRENCH SAFETY NOTES:

- 1. IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, ALL TRENCHES OVER 6 FEET IN DEPTH IN EITHER HARD AND COMPACT OR SOFT AND UNSTABLE SOIL SHALL BE SLOPED, SHORED, SHUTTERED, BRACED OR OTHERWISE SUPPORTED. FURTHERMORE, ALL TRENCHES LESS THAN 6 FEET IN DEPTH SHALL ALSO BE EFFECTIVELY PROTECTED WHEN HAZARDOUS GROUND MOVEMENT MAY BE EXPECTED.
2. IN ACCORDANCE WITH THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, WHEN EMPLOYEES ARE REQUIRED TO BE IN TRENCHES 4- FEET DEEP OR MORE, ADEQUATE MEANS EXIT, SUCH AS A LADDER OR STEPS, MUST BE PROVIDED AND LOCATED SO AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL.
3. IF TRENCH SAFETY SYSTEM DETAILS WERE NOT PROVIDED IN THE PLANS BECAUSE TRENCHES WERE ANTICIPATED TO BE LESS THAN FIVE FEET IN DEPTH AND DURING CONSTRUCTION IT IS FOUND THAT TRENCHES ARE IN FACT 6 FEET OR MORE IN DEPTH OR TRENCHES LESS THAN 6 FEET IN DEPTH ARE IN AN AREA WHERE HAZARDOUS GROUND MOVEMENT IS EXPECTED, ALL CONSTRUCTION SHALL CEASE. THE TRENCHED AREA SHALL BE BARRICADED AND THE ENGINEER NOTIFIED IMMEDIATELY. CONSTRUCTION SHALL NOT RESUME UNTIL APPROPRIATE TRENCH SAFETY SYSTEM DETAILS, AS DESIGNED BY A PROFESSIONAL ENGINEER, ARE SUBMITTED TO AND ACCEPTED BY THE HORIZON REGIONAL MUNICIPAL UTILITY DISTRICT.
4. CONTRACTOR SHALL PROVIDE TO THE P.S.B. A TRENCH SAFETY PLAN, SEALED BY A REGISTERED ENGINEER.

UTILITY NOTES:

- 1. CONTRACTOR MUST COORDINATE WATER SYSTEM WITH SEWER SYSTEM TO PREVENT ANY CONFLICTS WHERE THESE LINES INTERSECT ONE ANOTHER.
2. AREAS WHERE WATER PIPES CROSS OVER SEWER PIPES SHALL NOT HAVE ANY JOINTS.
3. WATER & SEWER TO HAVE A MINIMUM SEPARATION OF 10 FEET.

THE FOLLOWING LIST INCLUDES THE KNOWN RESPONSIBLE AUTHORITIES:

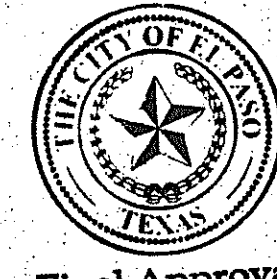
- TEXAS GAS SERVICE
IVAN ALOCER.....(915) 680-7238
EL PASO ELECTRIC COMPANY
ROBERT BEDERRA.....(505) 882-2317
EL PASO WATER UTILITIES
FELIPE LOPEZ.....(915) 594-5530
THE WARNER COMMUNICATIONS
RAY MENDOZA.....(915) 775-7416
PARKS AND RECREATION
DAVID OCHOA.....(915) 698-0771
LOUIS ALOYSIUS.....(915) 621-3791
ATAF
FRANCISCO VACIO.....915 696-6119

WATER NOTES:

- 1. CONTRACT UTILITY COMPANIES FOR EXACT LOCATION FOR UNDERGROUND UTILITIES IN THE AREA.
2. PROVIDE ADEQUATE CONCRETE THRUST BLOCKING AT THE FOLLOWING: TAPPING, SLEEVES, TEES, BENDS, PLUGS - ALL FITTINGS.
3. INSTALL A TRENCH SAFETY SYSTEM TO PROVIDE FOR THE SAFE EXCAVATION OF ALL TRENCHES EXCEEDING A DEPTH OF (5') FIVE FEET AS PER O.S.H.A. STANDARDS.
4. ALL P.V.C. PIPE ON THIS PLAN SHALL BE ENCASED WITH SELECT BEDDING WHEN PLACED IN CITY ROW. IN SITU (ACCEPTABLE) MATERIAL CAN BE USED IN PRIVATE LINES.
5. ALL VALVES ON P.V.C. WATER MAINS SHALL BE ANCHORED IN CONCRETE.
6. CITY PAVING OUT PERMIT REQUIRED BEFORE EXCAVATION.
7. RECONNECTION OF EXISTING WATER LINE SYSTEM SHOWN ON THESE PLANS MUST BE MADE, SUCH THAT MINIMAL INTERRUPTION OF SERVICE TO CUSTOMER IS MADE.
8. ALL EXISTING LINES CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING 8" SEWER LINES (INCLUDING SERVICES) FROM DAMAGE AS A RESULT OF CONSTRUCTION.
9. VALVES AND OTHER PIPE MATERIALS TO BE ABANDONED SHALL BE REMOVED AND DISPOSED AT THE CONTRACTOR'S RESPONSIBILITY AND EXPENSE.
10. CONTRACTOR SHALL VERIFY LOCATION OF SERVICES BEFORE CONSTRUCTION.
11. CONTRACTOR SHALL COORDINATE WITH CITY CONSTRUCTION SEQUENCE AND TRAFFIC CONTROL PLANS.
12. CONTRACTOR SHALL PROVIDE TEMPORARY SERVICE TO CUSTOMERS IF SERVICE WILL BE INTERRUPTED FOR MORE THAN (4) HOURS IN A 24-HOUR PERIOD.
13. CONTRACTOR TO ADJUST WATER VALVES TO FINAL GRADE WHERE NECESSARY. COORDINATE FINAL GRADE ELEVATION WITH JOHN HAYES ST.
14. FIRE PROTECTION LINE TO BE SIZED BY FIRE PROTECTION CONTRACTOR.

SEWER NOTES:

- 1. CONTRACT UTILITY COMPANIES FOR EXACT LOCATION OF UNDERGROUND UTILITIES IN THIS AREA.
2. INSTALL A TRENCH SAFETY SYSTEM TO PROVIDE FOR THE SAFE EXCAVATION OF ALL TRENCHES EXCEEDING A DEPTH OF (5') FIVE FEET AS PER O.S.H.A. STANDARDS.
3. ALL P.V.C. PIPE ON THIS PLAN SHALL BE ENCASED WITH SELECT BEDDING WHEN PLACED IN CITY ROW. IN SITU (ACCEPTABLE) MATERIAL CAN BE USED IN PRIVATE LINES.
4. PROVIDE MANHOLE ADAPTER WHERE P.V.C. PIPE CONNECTS TO MANHOLE.
5. WATER & SANITARY MAIN SEPARATION REQUIREMENTS SHALL COMPLY WITH "T.C.B.Q." MINIMUM VERTICAL SEPARATION REQUIREMENTS. (REFER TO SPECIFICATIONS.)
6. ALL EXISTING 8" SEWER LINES AND SERVICES CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY SERVICE TO CUSTOMERS IF SERVICE WILL BE INTERRUPTED FOR MORE THAN (4) HOURS IN A 24-HOUR PERIOD. CONTRACTOR IS RESPONSIBLE FOR PROTECTING 8" SEWER LINES (INCLUDING SERVICES) FROM DAMAGE AS A RESULT OF CONSTRUCTION.
7. CONTRACTOR SHALL COORDINATE WITH CITY CONSTRUCTION SEQUENCE AND TRAFFIC CONTROL PLANS.



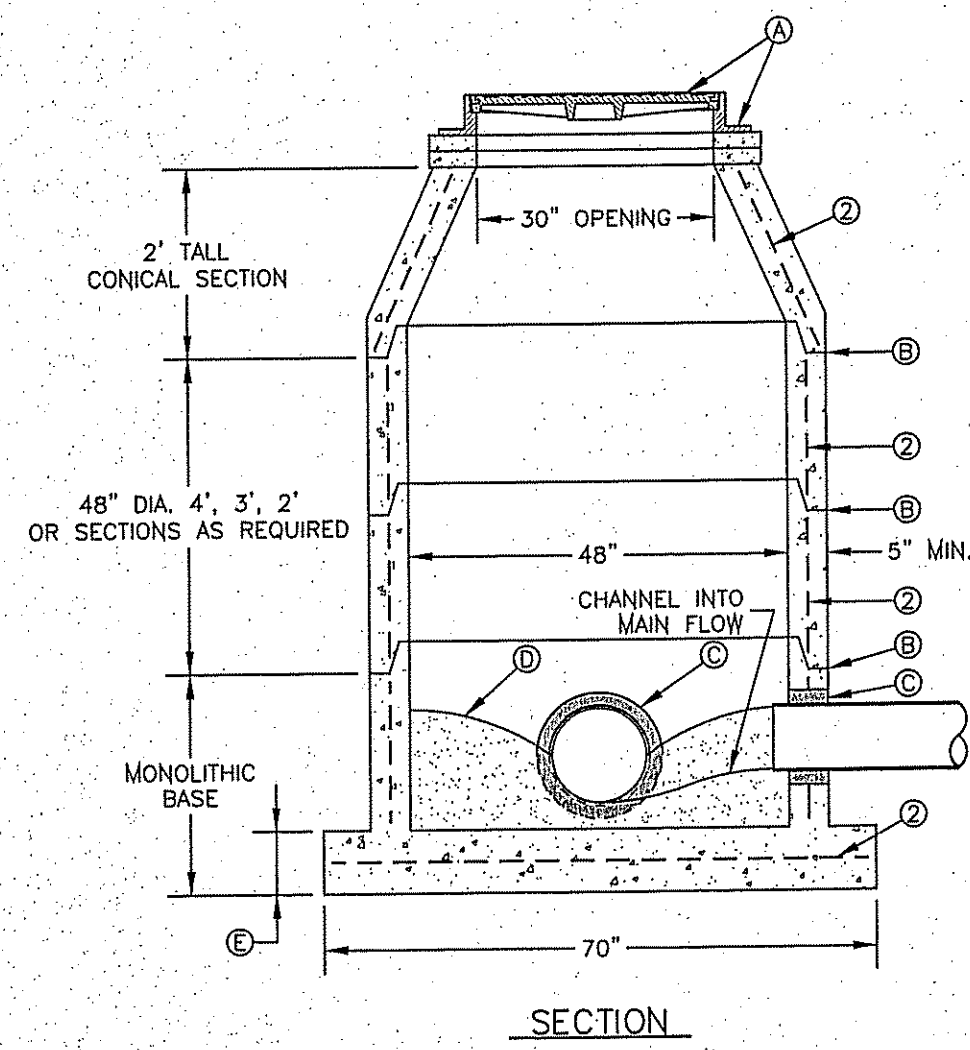
Final Approval

Table with columns: BENCHMARK, CITY MONUMENT AT THE CENTERLINE INTERSECTION OF FESTIVAL DR. AND NEW ORLEANS DR., ELEVATION: 4197.81 (CITY DATUM), REVISIONS, DATE, PSB REVISIONS.

PROJECT NAME: MONTECILLO UNIT FOUR "A"
BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1, JOHN BARBER SURVEY 10, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 10.066± ACRES

SCALE: HORIZ: 1"=40', VERT: 1"=10'. DATE: NOV. 2013. DESIGN BY: Y.C. INITIATED BY: R.O. CHECKED BY: Y.C. JOB NO.: 315-45. Includes Engineer's Seal and Surveyor's Seal.

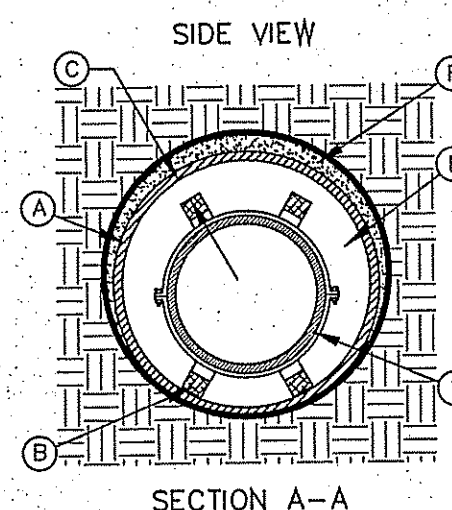
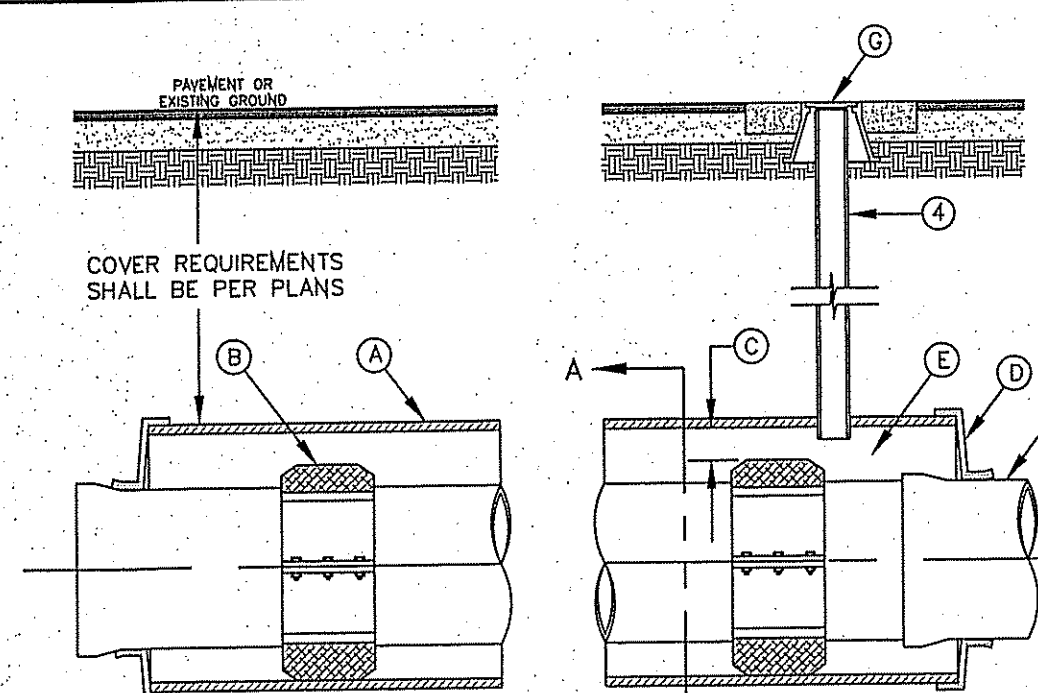
CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS. 6090 SURETY DR. STE. 100 EL PASO, TEXAS 79905. PHONE: (915) 592-0283 FAX: (915) 592-0286. Includes Conde Inc. logo and registration number.



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

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

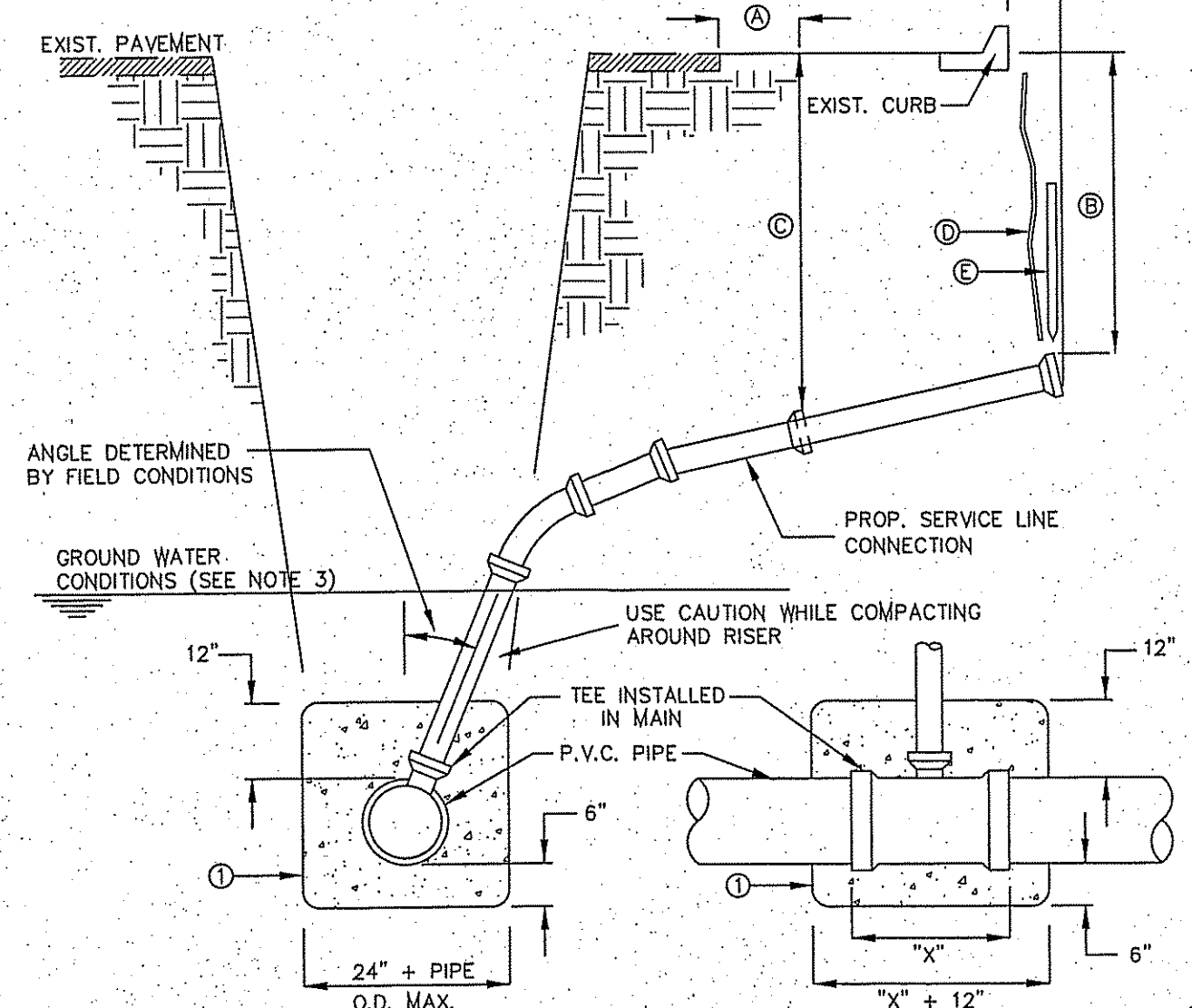
- CONSTRUCTION KEY NOTES:**
- MANHOLE RING AND COVER (SEE DETAILS 377 & 378), SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
 - ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEX OR APPROVED EQUAL.
 - PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE AND SHALL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



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

- 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.

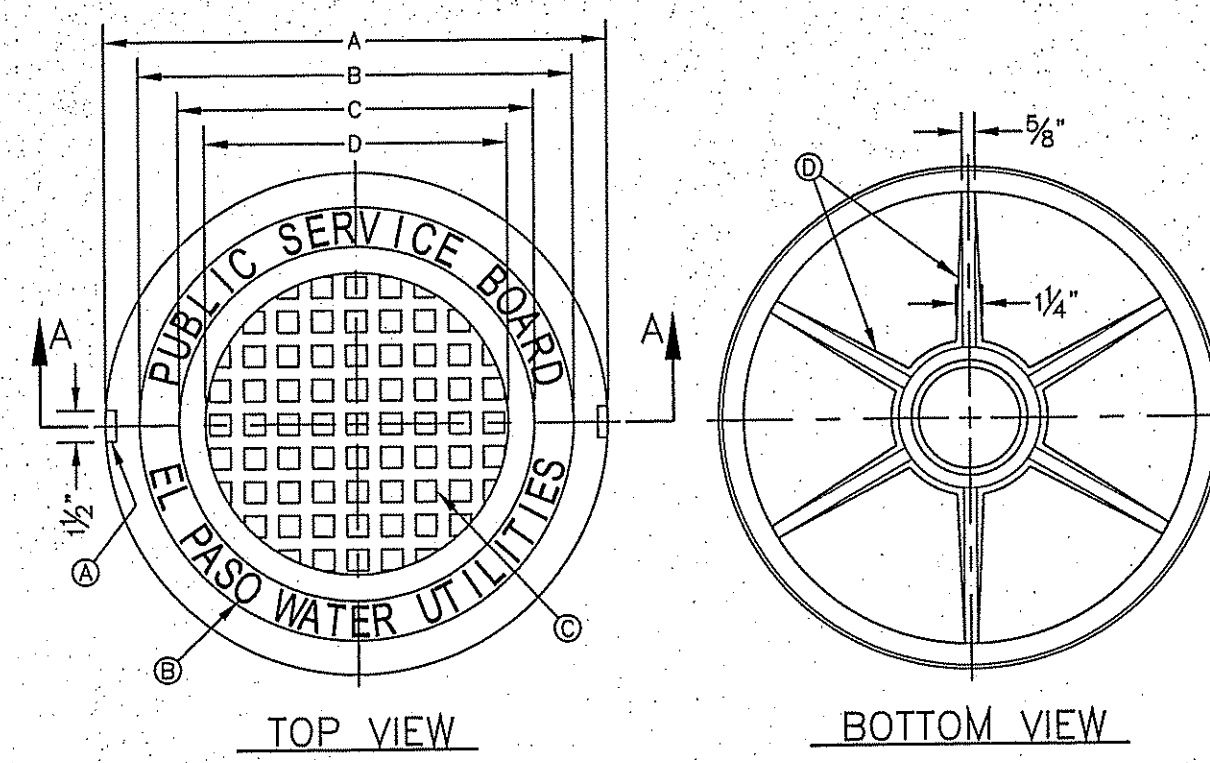
- CONSTRUCTION KEY NOTES:**
- STEEL CASING MINIMUM YIELD 36000 PSI, SIZE AND LENGTH AS SPECIFIED.
 - CASING INSULATORS, SPACING AND LOCATION PER MANUFACTURER'S RECOMMENDATIONS. INSULATORS SHALL FIT SNUG OVER THE CARRIER PIPE.
 - POSITION CARRIER PIPE APPROXIMATELY IN CENTER OF CASING. MINIMUM SPACING 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).



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

- GENERAL NOTES:**
- IN GROUNDWATER CONDITIONS ONLY, P.V.C. SADDLES OR TEES ARE TO BE ENCASED WITH CLASS B CONCRETE.
 - UNDER CERTAIN CONDITIONS FIELD INVESTIGATIONS WILL BE REQUIRED TO DETERMINE THE ADEQUACY OF THE DEPTH OF THE LATERAL.
 - WHEN GROUND WATER IS ENCOUNTERED SERVICE RISER SHALL BE EXTENDED ABOVE ANTICIPATED WATER TABLE LEVEL.

- CONSTRUCTION KEY NOTES:**
- CONTRACTOR TO INSTALL SEWER SERVICE LINE FROM THE MAIN TO A LOCATION 6" BEHIND THE CURB OR 18" BEYOND THE EDGE OF PAYMENT, UNLESS CONDITIONS REQUIRE OTHERWISE.
 - 18" FOR STANDARD SUBDIVISION, 3.5' FOR SUBDIVISIONS WITH ON-SITE PONDING OR FLAT TERRAIN.
 - RISERS OR LATERALS EXTENDING BEYOND EXISTING PAVING SHALL BE INSTALLED TO 3.5' MINIMUM TOP OF GROUND OR PAVEMENT, UNLESS CONDITIONS REQUIRE OTHERWISE.
 - PLASTIC METALLIC MARKING TAPE RISING TO WITHIN 6" OF GROUND SURFACE OR METALLIC DISK.
 - WOODEN STAKE (1"x2"x36") VERTICALLY PLACED AT PLUGGED END OF PROPOSED SERVICE LINE.



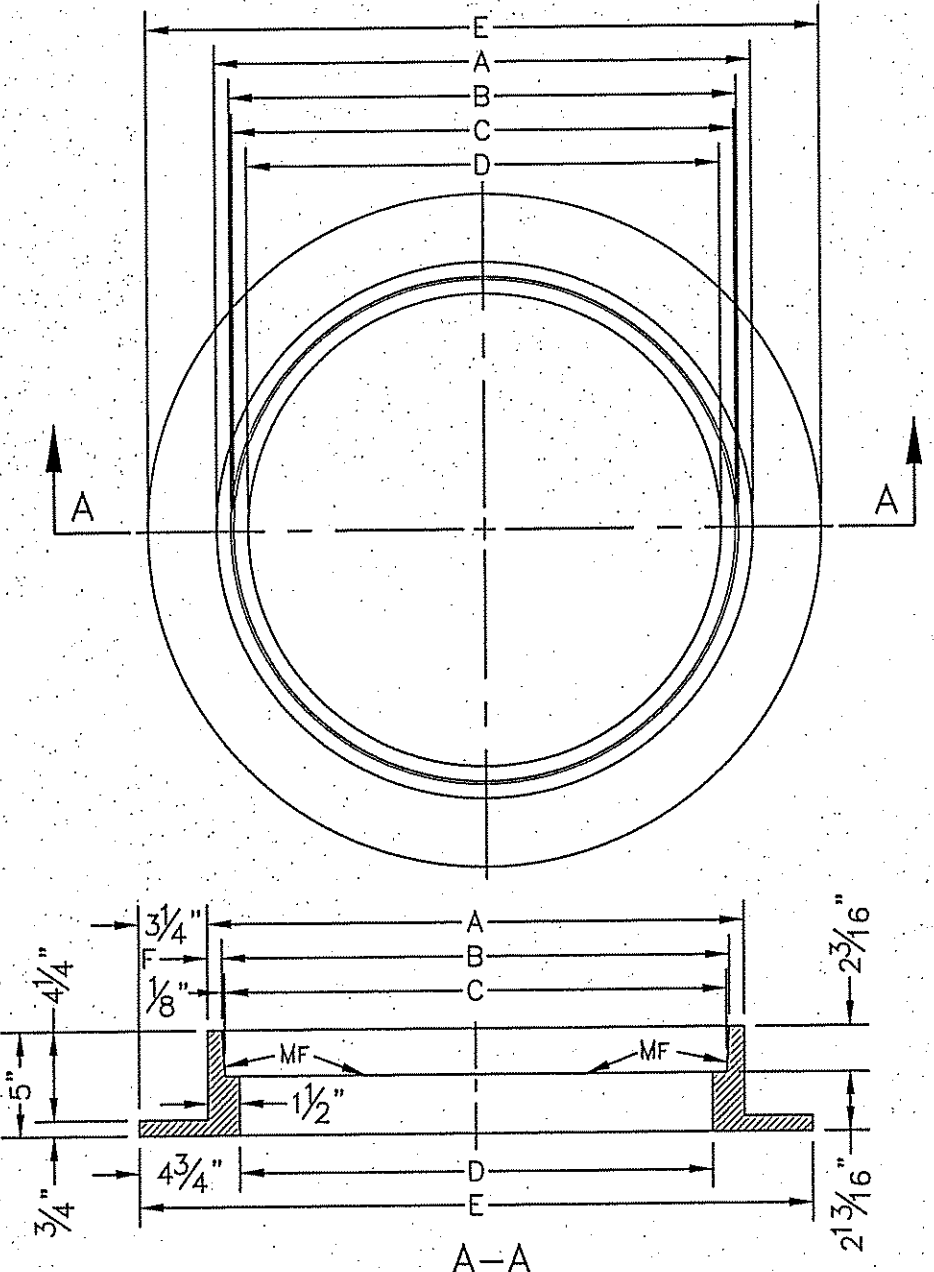
SEWER MANHOLE COVER
N.T.S.
378

- 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 1/16" ± PER FOOT (AASHTO M306-07).
 - WEIGHT MAY VARY 5% ± (AASHTO M306-07).

- CONSTRUCTION KEY NOTES:**
- LIFTING NOTCH.
 - 5/8" 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 3/8" | 20 3/8" |
| C | 24 3/8" | 16 3/8" |
| D | 21 3/8" | 14 3/8" |
| WEIGHT | 265 lbs. | 165 lbs. |

*OBSOLETE - DO NOT USE (FOR REFERENCE ONLY)

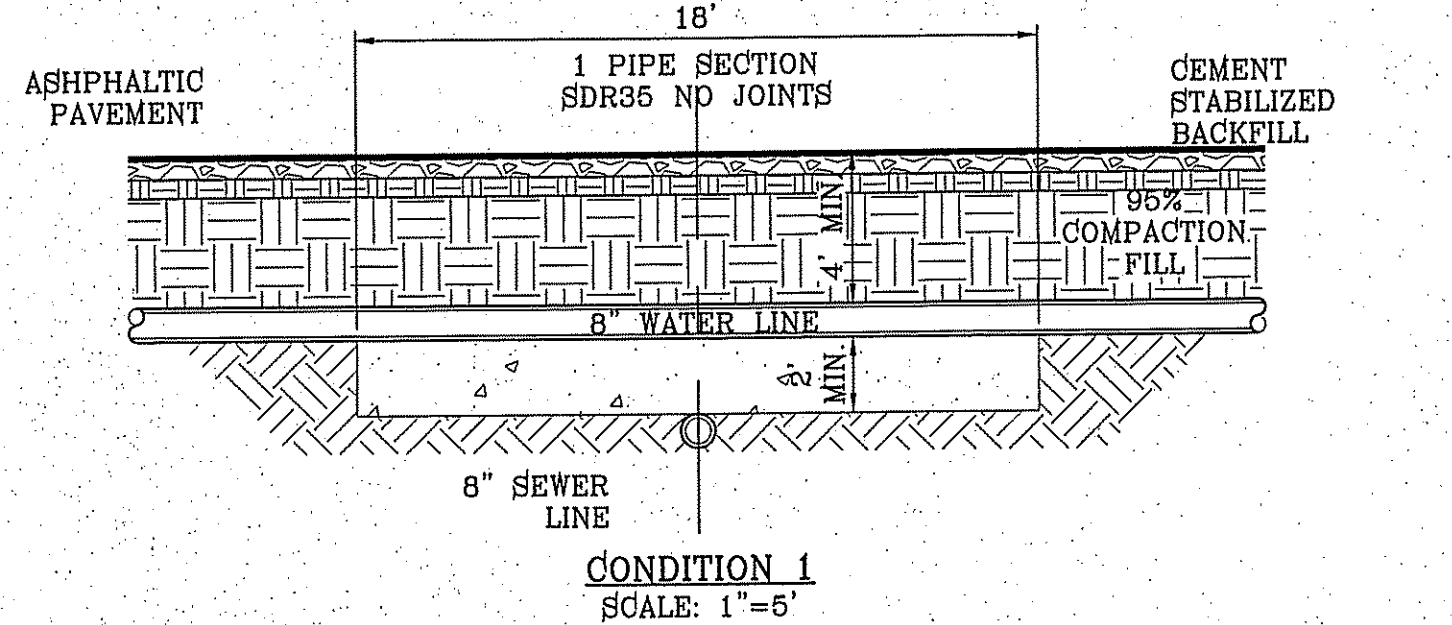


SEWER MANHOLE RING
N.T.S.
377

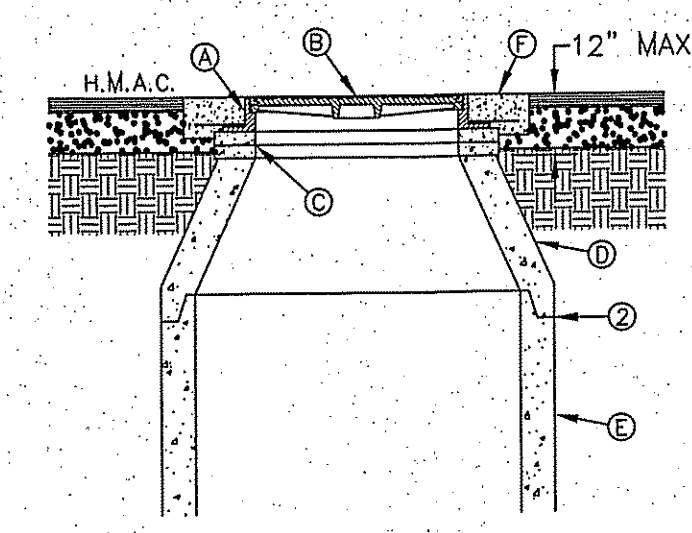
- GENERAL NOTES:**
- MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 - CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 - CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 - AS-CAST DIMENSIONS MAY VARY 1/16" ± PER FOOT (AASHTO M306-07).
 - WEIGHT MAY VARY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

| MANHOLE RING | MANHOLE - ALL TYPES | *MANHOLE TYPE A, A1, A2 & C |
|--------------|---------------------|-----------------------------|
| A | 33" | 25 1/2" |
| B | 31 3/4" | 24 1/8" |
| C | 31 1/2" | 23 3/8" |
| D | 30" | 22 1/2" |
| E | 29 1/2" | 22" |
| F | 28" | 21 1/8" |
| WEIGHT | 220 lbs. | 170 lbs. |

*OBSOLETE - DO NOT USE (FOR REFERENCE ONLY)



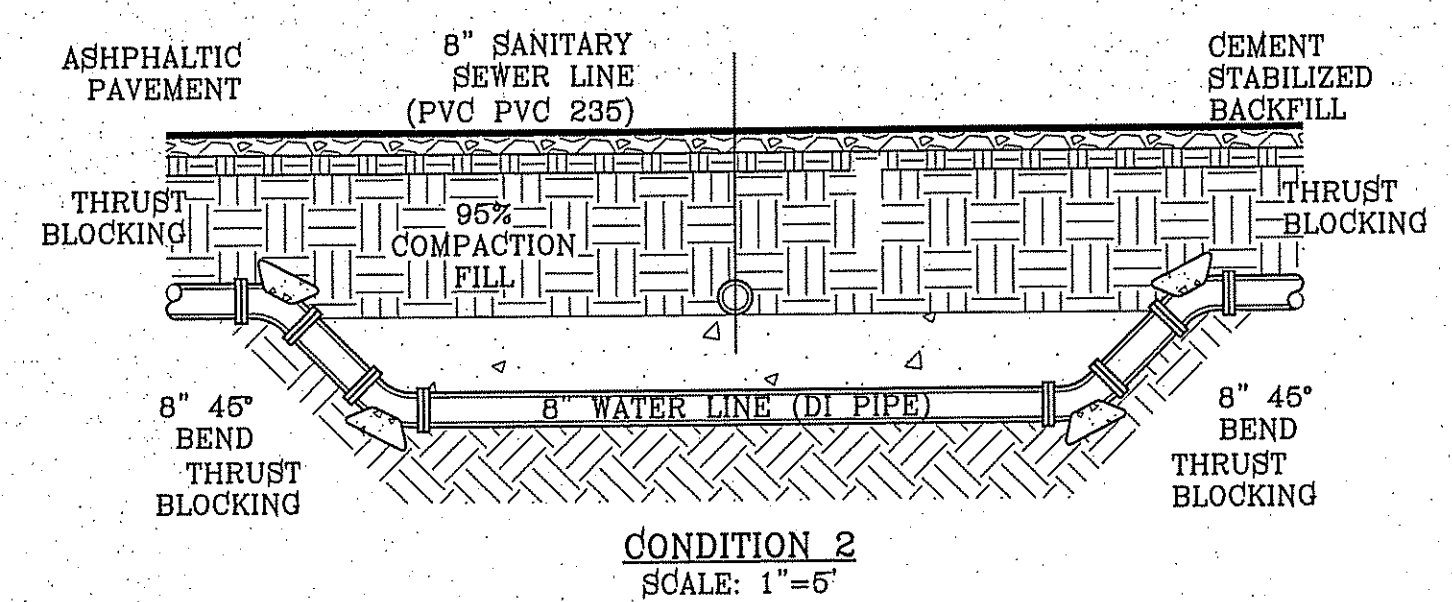
CONDITION 1
SCALE: 1"=5'



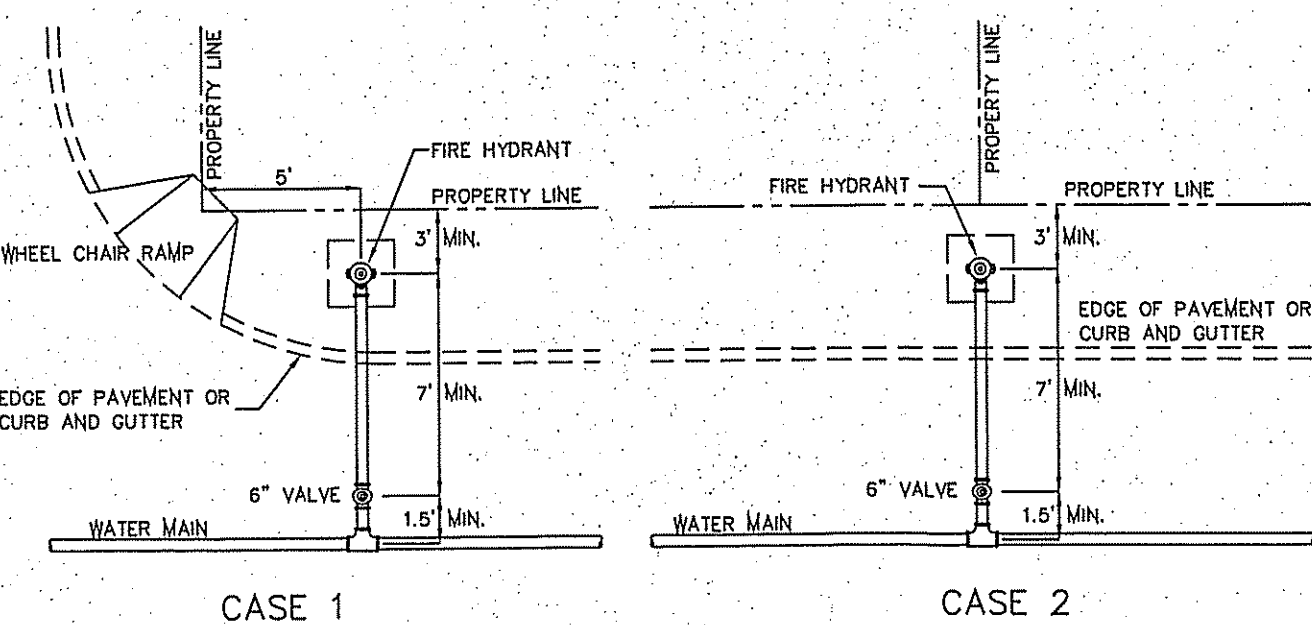
MANHOLE RING AND COVER INSTALLATION
N.T.S.
185

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

- CONSTRUCTION KEY NOTES:**
- MANHOLE RING (SEE DETAIL 377).
 - MANHOLE COVER (SEE DETAIL 378).
 - CONCRETE ADJUSTMENT RINGS AS REQUIRED.
 - MANHOLE BARREL SECTION.
 - MANHOLE RING FLUSH WITH TOP OF CONCRETE, CONCRETE COLLAR NOT NEEDED.
 - CONCRETE APRON (SEE DETAIL 184-2) FLUSH WITH MANHOLE RING AND 2" ABOVE NATURAL GROUND.

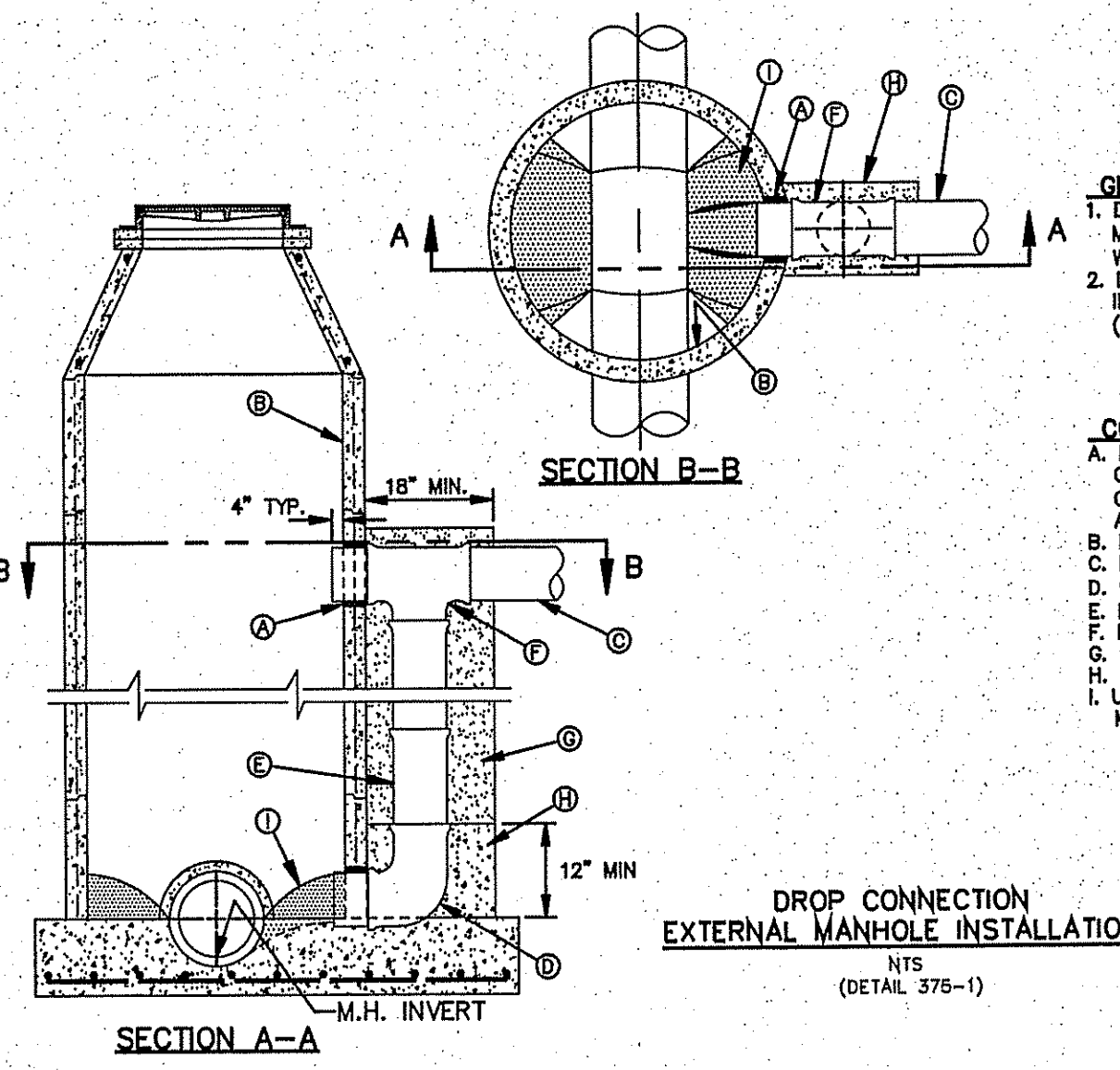


CONDITION 2
SCALE: 1"=5'



PIPE CONNECTION TO MANHOLE
N.T.S.
376

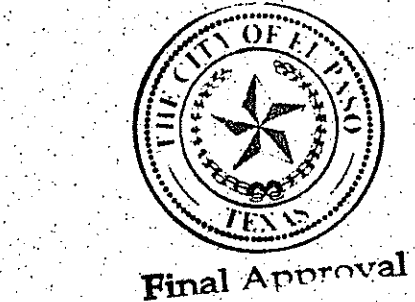
- GENERAL NOTES:**
- FOR CASE 1 FIRE HYDRANT SHALL BE LOCATED AT A DISTANCE OF 5 FT. MINIMUM FROM THE PROPERTY LINE OR AT THE BEGINNING OF CURB RETURN.
 - FOR CASE 2 FIRE HYDRANT SHALL BE LOCATED AT THE PROPERTY LINE COMMON TO ADJOINING LOTS.
 - FOR CASE 3 AND 4 WHERE THE DISTANCE BETWEEN THE VALVE AND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



DROP CONNECTION
EXTERNAL MANHOLE INSTALLATION
N.T.S.
(DETAIL 376-1)

- 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 CONNECTORS (A.S.T.M. - C923) "KOR-N-SEAL" OR 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.



EL PASO WATER UTILITY DETAILS
NUMBERS:
180, 185, 370-1, 375-1, 376, 377, 378,
391

BENCHMARK
CITY MONUMENT AT THE CENTERLINE INTERSECTION OF
FESTIVAL DR. AND NEW ORLEANS DR.
ELEVATION: 4137.81 (CITY DATUM)

| | | |
|-----------|-----------|----|
| DATE | REVISIONS | BY |
| 1-27-2012 | PSB | RO |

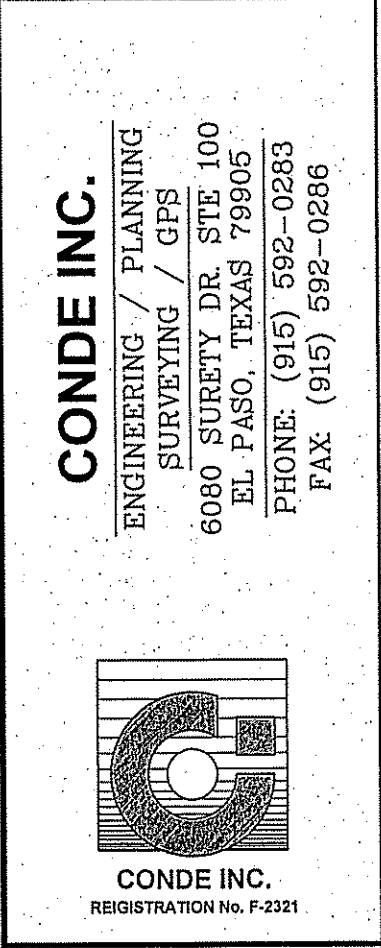
PROJECT NAME
MONTECILLO UNIT FOUR "A"
BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2,
MONTECILLO UNIT THREE REPLAT "B" AND PORTION OF TRACT 1,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 10.068± ACRES

SCALE
HORIZ: ---
VERT: ---

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

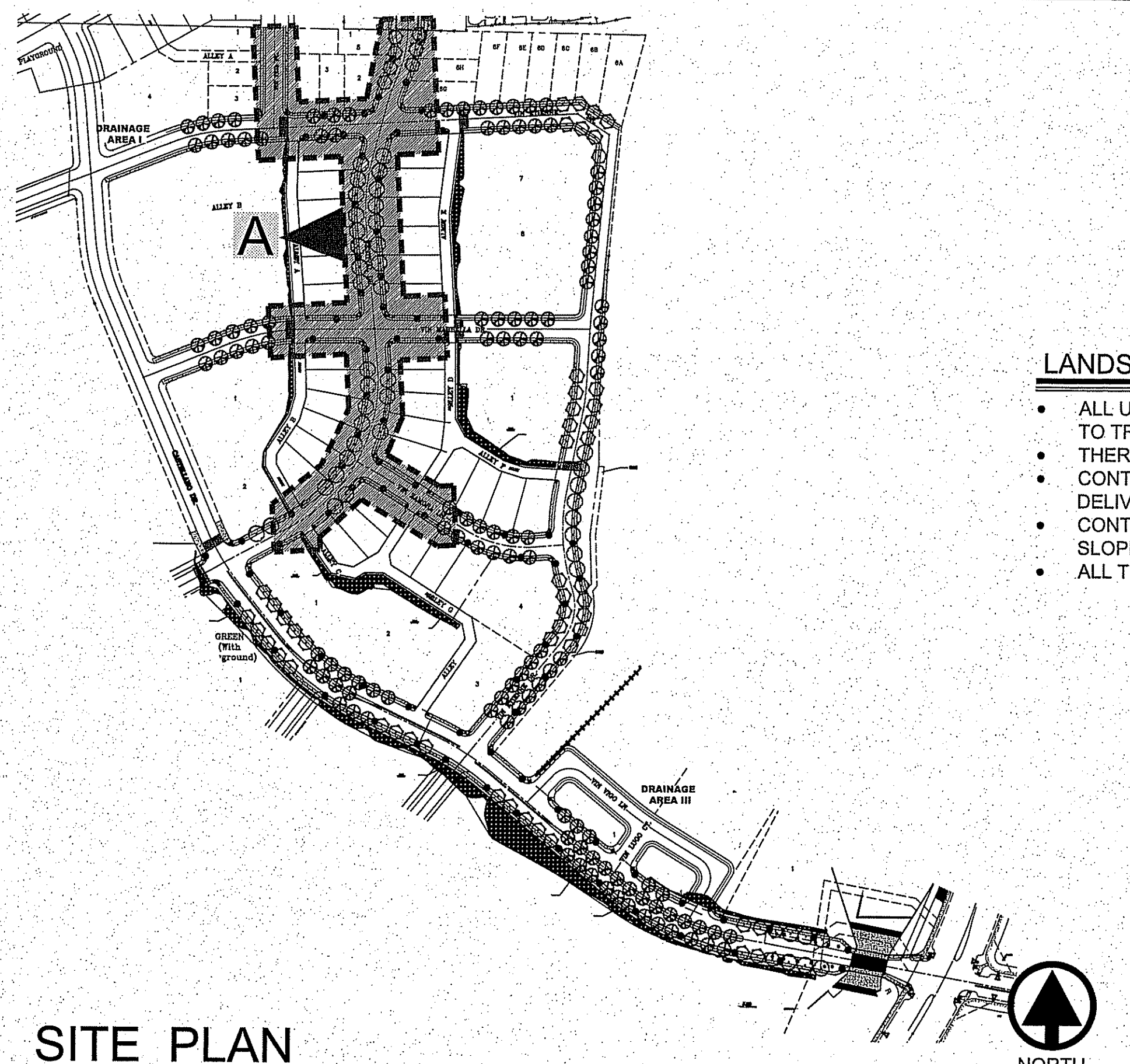
NOV. 2013
DESIGN BY: Y.C.
INITIATED BY: R.O.
CHECKED BY: Y.C.
JOB NO.: 315-45

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
**WATER & SEWER
NOTES AND
DETAILS**

FILE LOCATION: P:\Conde\Montecillo\4 MONTE4-CASTELLANO - LAND NEW NEW PLOTTED ON Thursday, June 11, 2015 2:30:23 PM BY JENNIFER BARR



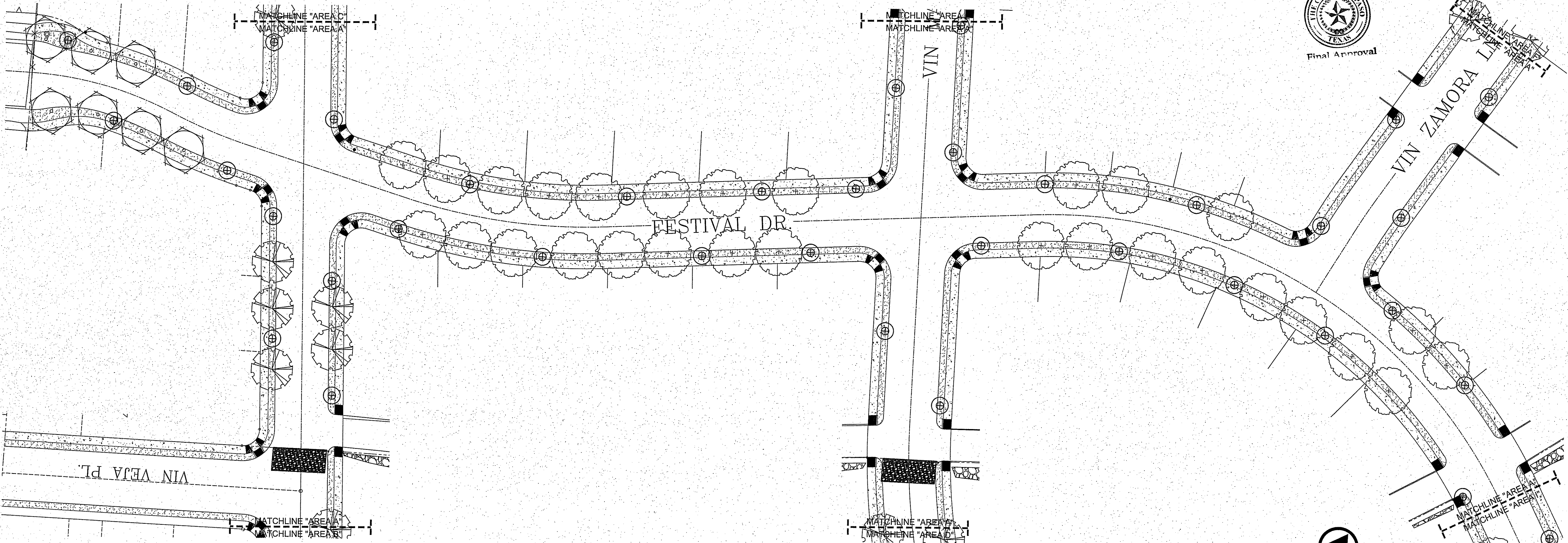
LANDSCAPE NOTES

- ALL UTILITY EASEMENTS SHALL BE MARKED PRIOR TO EXCAVATION, AND PARTICULAR ATTENTION PAID TO TREE PLACEMENT WITHIN AND THROUGHOUT SITE.
- THERE SHALL BE NO STEEL EDGING BETWEEN ROCK TYPES.
- CONTRACTOR SHALL PROVIDE ROCK SAMPLES AND OBTAIN APPROVAL FROM OWNER PRIOR TO FINAL DELIVERY OF QUARRIED MATERIALS.
- CONTRACTOR TO PAY CLOSE ATTENTION TO FINISH GRADES. SHOULD GRAVELLED AREAS EXCEED 4:1 SLOPE, CONTRACTOR TO OBTAIN APPROVAL OF LANDSCAPE DESIGNER PRIOR TO MULCH INSTALLATION.
- ALL TREES SHALL BE SINGLE LEADER TRUNK, UNLESS INDICATED IN PLANS.

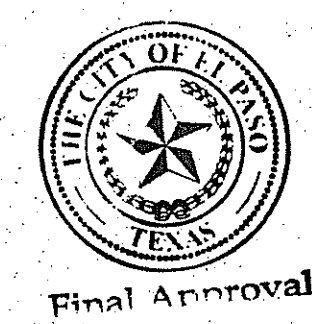
LANDSCAPE LEGEND

| SYMBOL | COMMON NAME | BOTANICAL NAME | QTY |
|---|--|---------------------------|-----|
| 3" CALIPER TREE - 10' HEIGHT MINIMUM | | | |
| | SOUTHERN LIVE OAK | QUERCUS VIRGINIANA | 42 |
| | CHINESE PISTACHE | PISTACIA CHINENSIS | 58 |
| | HONEY MESQUITE | PROSOPIS GLANDULOSA | 126 |
| SALVAGED PLANT - AVAILABLE AT SALVAGE YARD ON SITE | | | |
| | OCOTILLO (IF ON-SITE SALVAGED OCOTILLO HAVE DIED, USE CIMARRON SAGE - LEUCOPHYLLUM ZYGOPHYLLUM) | FOUQUIERIA SPLENDENS | 49 |
| | HAYSTACK CACTUS | ECHINOCEREUS | 70 |
| 5 GALLON SHRUB - 18" HEIGHT MINIMUM UNLESS OTHERWISE INDICATED | | | |
| | CLEVELAND SAGE | SALVIA CLEVELANDII | 80 |
| | NEW GOLD LANTANA | LANTANA CAMARA 'NEW GOLD' | 291 |
| | POWIS CASTLE | ARTEMISIA 'POWIS CASTLE' | 123 |
| DECORATIVE STONES & BOULDERS | | | |
| | BOULDER - DESERT TAN - 2'X2' - TO BE BURIED AT WIDEST POINT BOULDERS SHALL BE INSTALLED SO THAT THEY ARE WIDER THAN THEY ARE TALL | | |
| GRAVELS, & MULCHES | | | |
| | 3/4" FRANKLIN RED ROCK, 3" DEPTH W/ MIRAFI 140NC WEED BARRIER | | |
| | CONCRETE PAVERS - PER DETAIL | | |

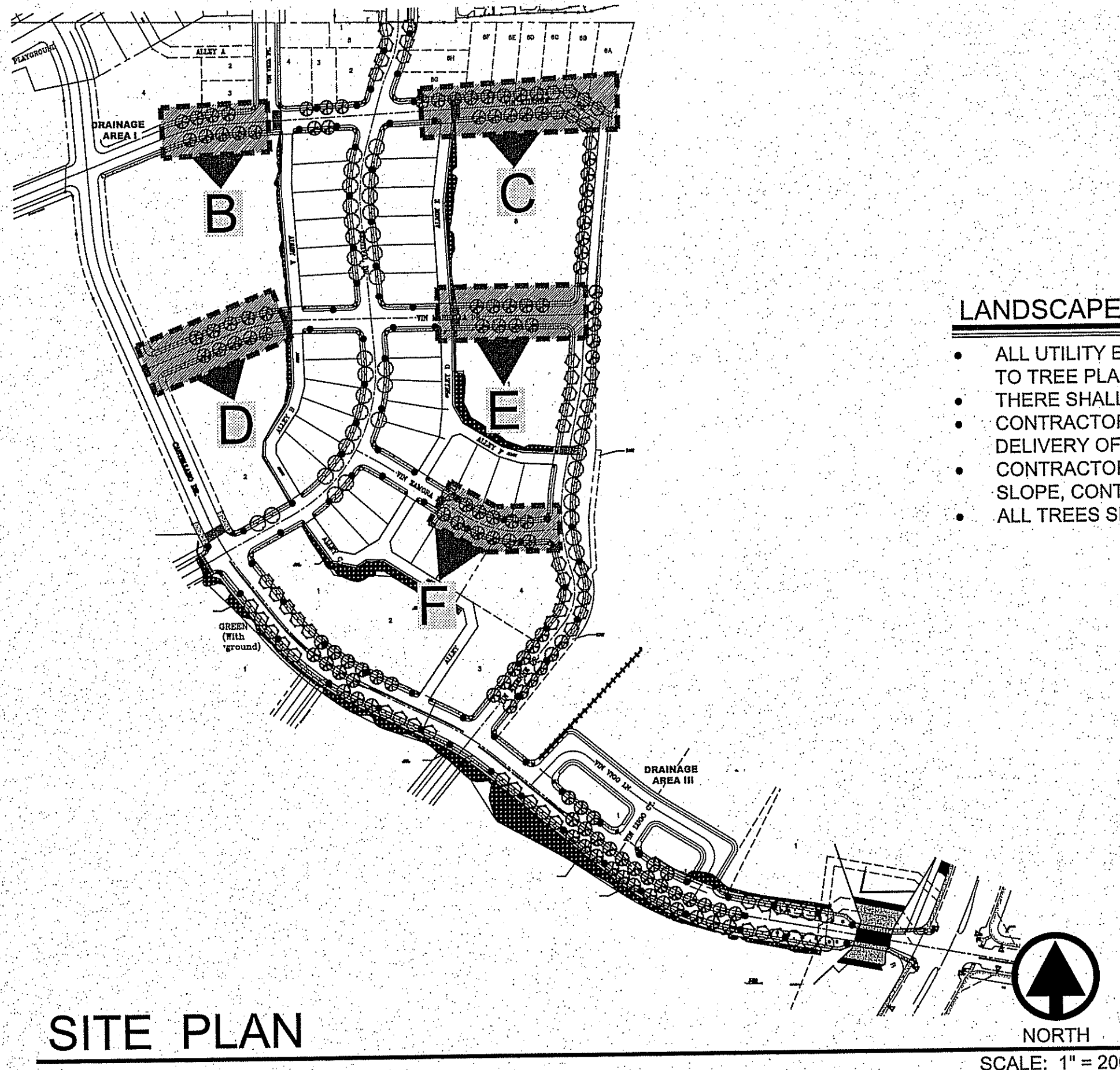
SITE PLAN



LANDSCAPE PLAN - AREA A



| | | | |
|--|--|---|-----------|
| CONSULTANT'S SEAL | <p>CONDE INC. ENGINEERING / PLANNING / SURVEYING / GPS 6080 SURVEY DR. SUITE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286</p> | PROJECT NAME | BENCHMARK |
| | | <p>MONTECILLO UNIT FOUR A</p> <p>BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACTS 4P2B, A.F. MILLER SURVEY 215, AND PORTION OF TRACT 1, JOHN BARKER SURVEY 10, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING .29,211+ ACRES</p> | |
| SCALE | <p>HORIZ. AS NOTED VERT. AS NOTED DATE: MAY 2015 DESIGN BY: C.H. INITIATED BY: C.H. CHECKED BY: J.E.A. JOB NO.: 113-35</p> | DATE | REVISIONS |
| <p>CONDE INC. REGISTRATION No. F-2321</p> | | <p>SHEET TITLE</p> <p>LANDSCAPE PLAN</p> <p>L-1.0</p> | |
| <p>desert elements LANDSCAPE DESIGN, LLC 1-3 ardovino drive, sunland park, new mexico 88063 DE-jennifer@dep.r.com • phone: 575.989.9100</p> | | <p>SHT 1 OF 8</p> | |



SITE PLAN

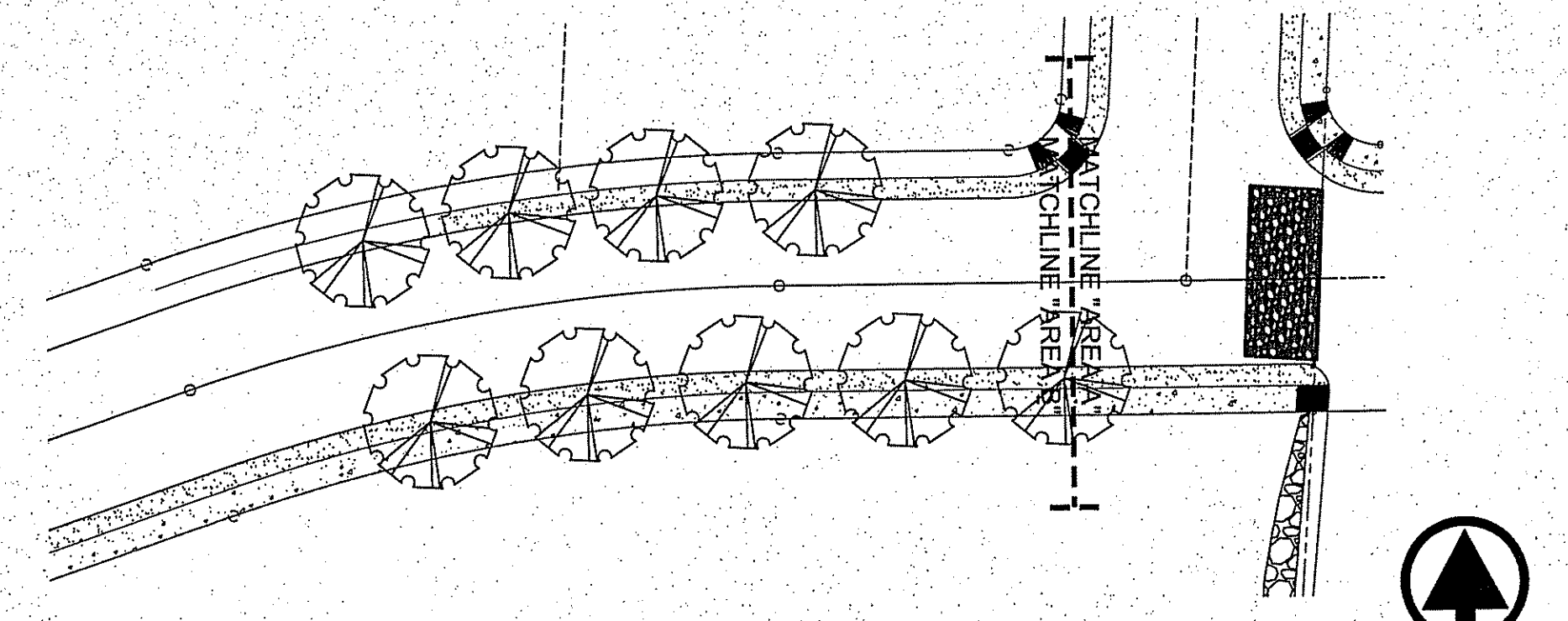
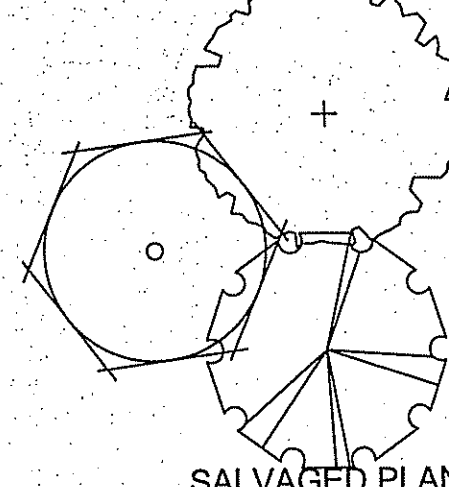
NORTH
SCALE: 1" = 200'

LANDSCAPE NOTES

- ALL UTILITY EASEMENTS SHALL BE MARKED PRIOR TO EXCAVATION, AND PARTICULAR ATTENTION PAID TO TREE PLACEMENT WITHIN AND THROUGHOUT SITE.
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- CONTRACTOR SHALL PROVIDE ROCK SAMPLES AND OBTAIN APPROVAL FROM OWNER PRIOR TO FINAL DELIVERY OF QUARRIED MATERIALS.
- CONTRACTOR TO PAY CLOSE ATTENTION TO FINISH GRADES. SHOULD GRAVELLED AREAS EXCEED 4:1 SLOPE, CONTRACTOR TO OBTAIN APPROVAL OF LANDSCAPE DESIGNER PRIOR TO MULCH INSTALLATION.
- ALL TREES SHALL BE SINGLE LEADER TRUNK, UNLESS INDICATED IN PLANS.

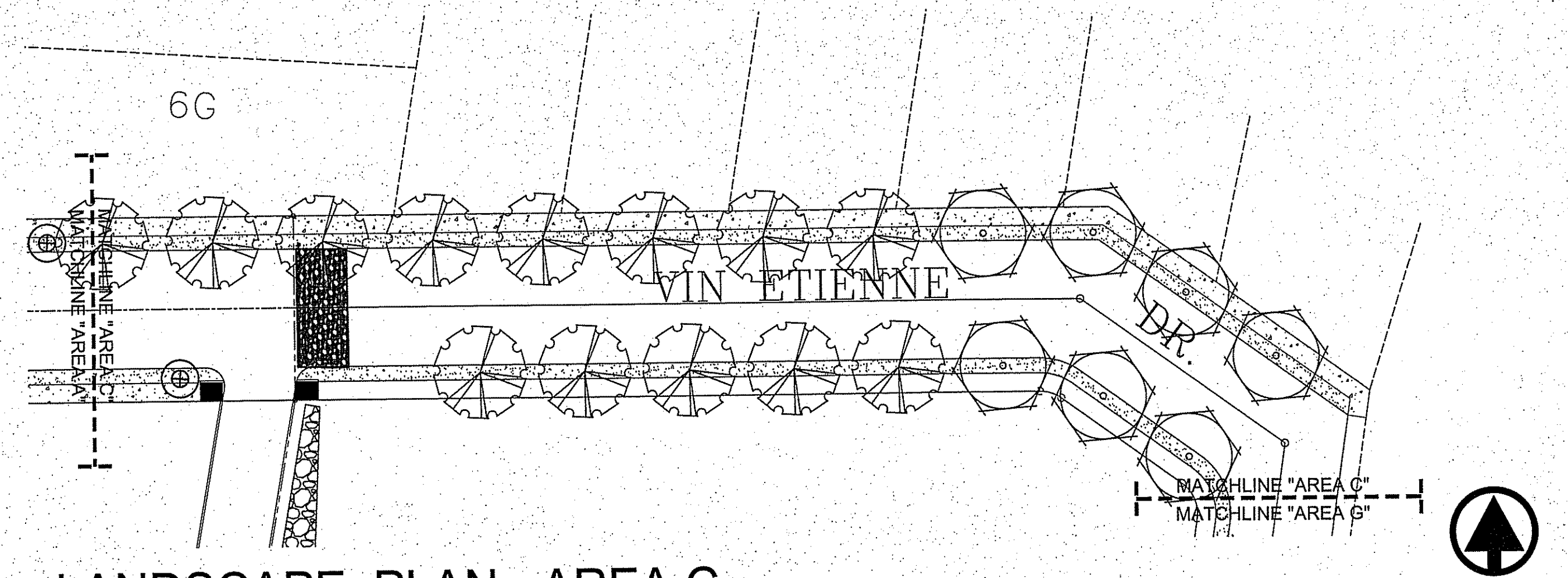
LANDSCAPE LEGEND

| SYMBOL | COMMON NAME | BOTANICAL NAME | QTY |
|---|--|---------------------------|-----|
| 3" CALIBER TREE - 10' HEIGHT MINIMUM | | | |
| | SOUTHERN LIVE OAK | QUERCUS VIRGINIANA | 42 |
| | CHINESE PISTACHE | PISTACIA CHINENSIS | 58 |
| | HONEY MESQUITE | PROSOPIS GLANDULOSA | 126 |
| SALVAGED PLANT - AVAILABLE AT SALVAGE YARD ON SITE | | | |
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| | HAYSTACK CACTUS | ECHINOCEREUS | 70 |
| 5 GALLON SHRUB - 18" HEIGHT MINIMUM UNLESS OTHERWISE INDICATED | | | |
| | CLEVELAND SAGE | SALVIA CLEVELANDII | 80 |
| | NEW GOLD LANTANA | LANTANA CAMARA 'NEW GOLD' | 291 |
| | POWIS CASTLE | ARTEMISIA 'POWIS CASTLE' | 123 |
| DECORATIVE STONES & BOULDERS | | | |
| | BOULDER - DESERT TAN - 2'X2' - TO BE BURIED AT WIDEST POINT BOULDERS SHALL BE INSTALLED SO THAT THEY ARE WIDER THAN THEY ARE TALL | | |
| GRAVELS, & MULCHES | | | |
| | 3/4" FRANKLIN RED ROCK, 3" DEPTH W/ MIRAFI 140NC WEED BARRIER | | |
| | CONCRETE PAVERS - PER DETAIL | | |



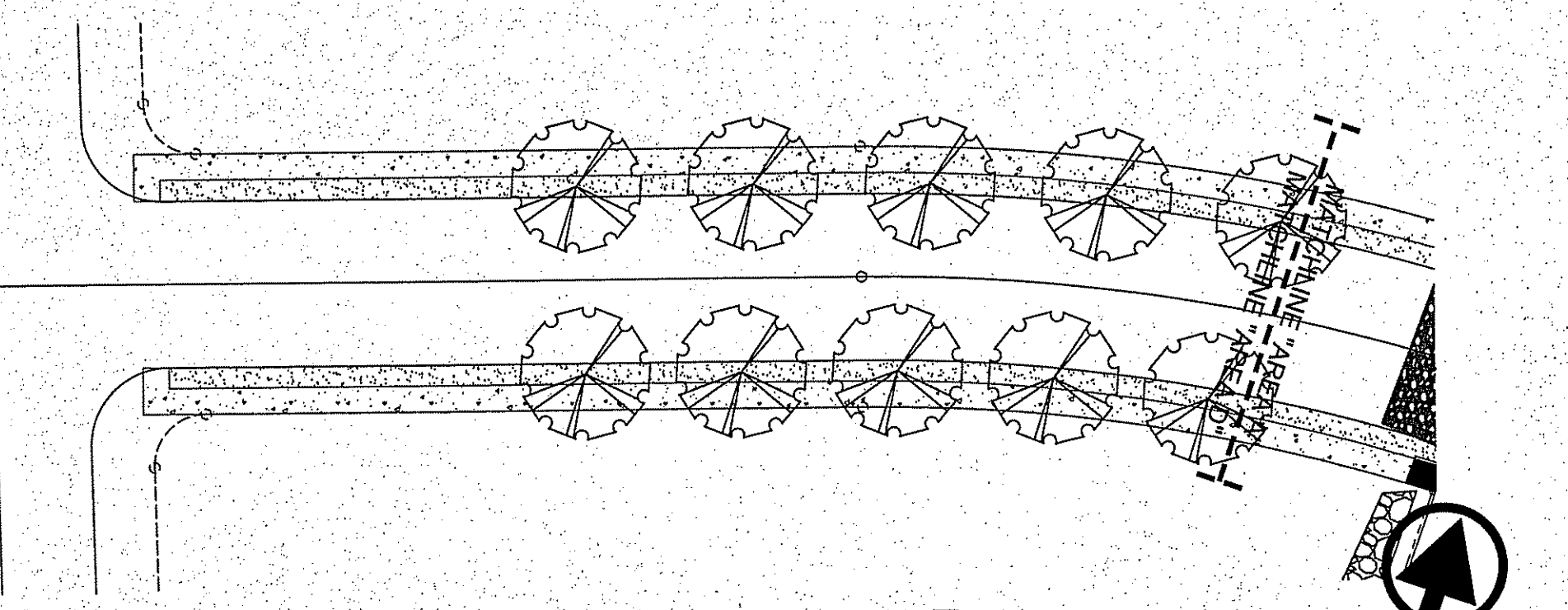
LANDSCAPE PLAN - AREA B

NORTH
SCALE: 1" = 30'



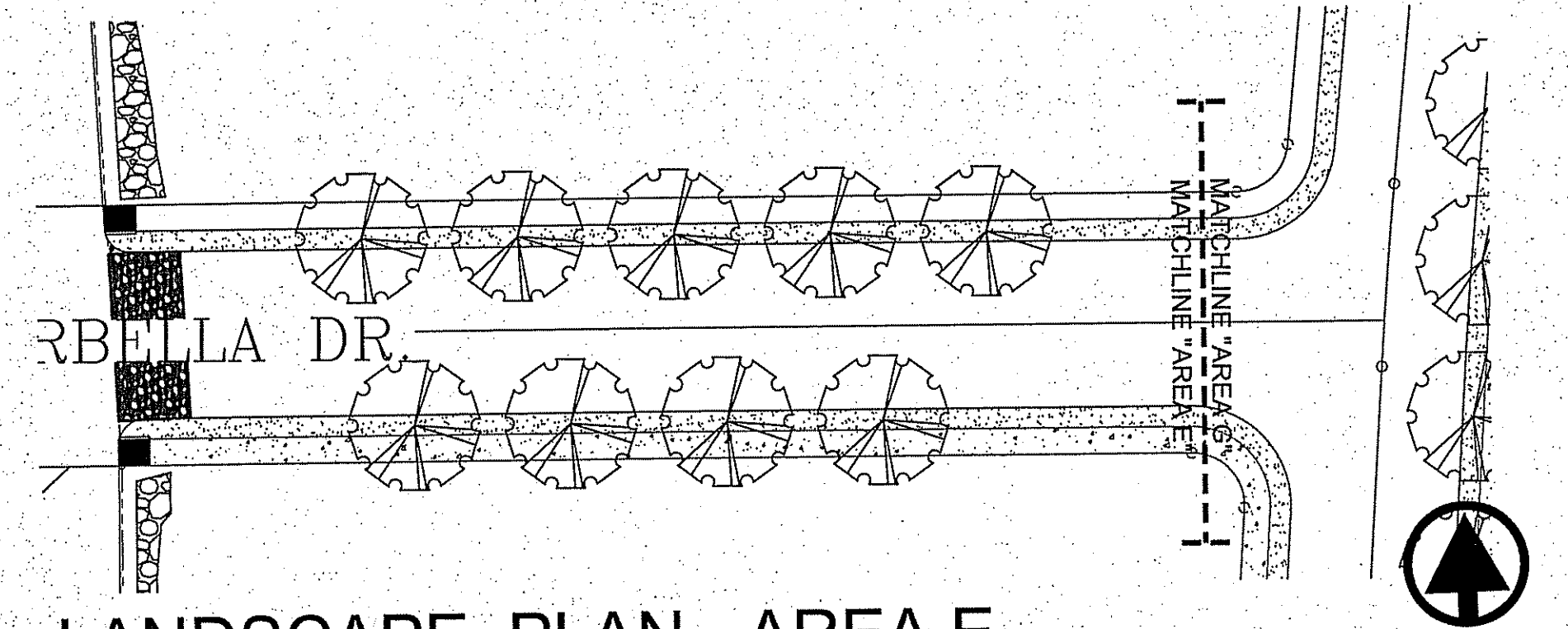
LANDSCAPE PLAN - AREA C

NORTH
SCALE: 1" = 30'



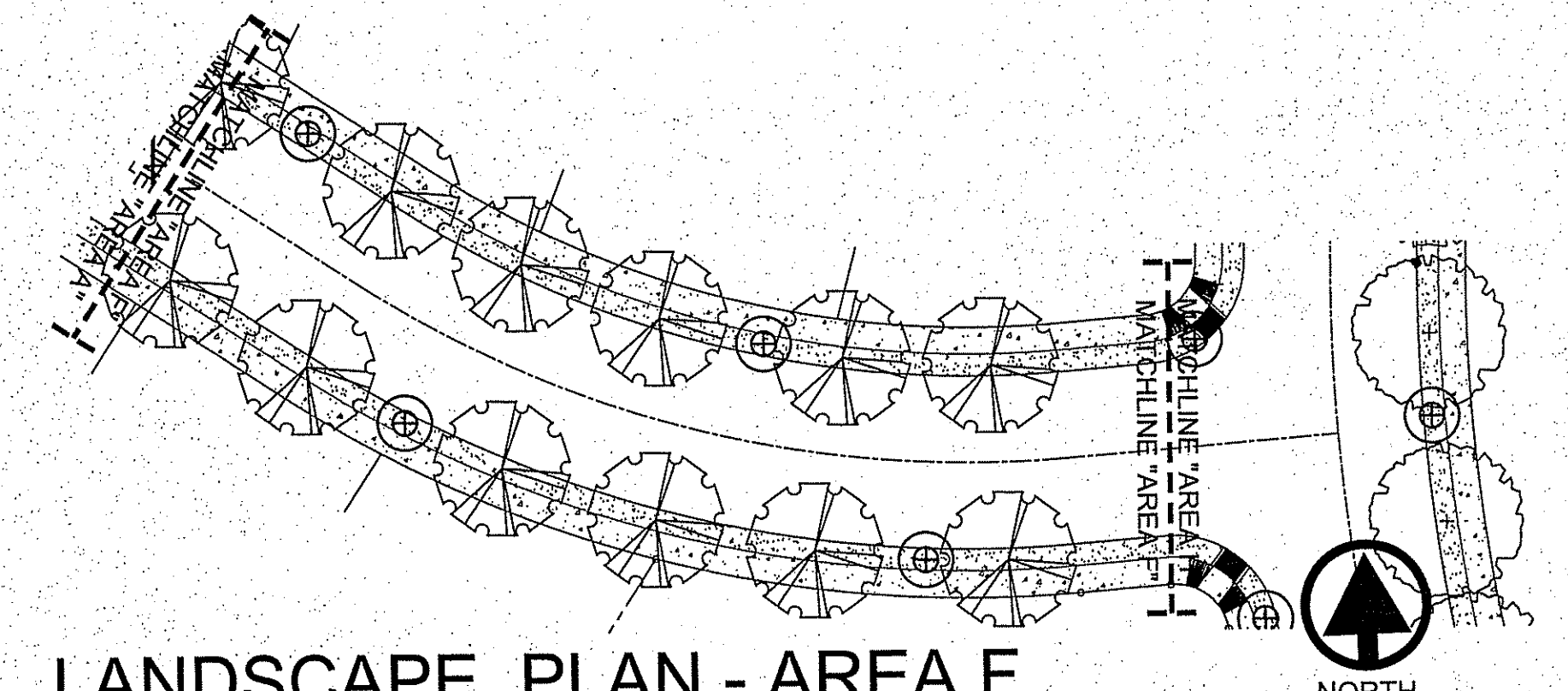
LANDSCAPE PLAN - AREA D

NORTH
SCALE: 1" = 30'



LANDSCAPE PLAN - AREA E

NORTH
SCALE: 1" = 30'



LANDSCAPE PLAN - AREA F

NORTH
SCALE: 1" = 30'



| | | | |
|-------------------|-----------|---|----|
| PROJECT NAME | | MONTECILLO UNIT FOUR | |
| CONSULTANT'S SEAL | | BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE, SURVEY 215, AND PORTION OF TRACTS 44, TRACT 1, JOHN BARKER SURVEY 10, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 28.211± ACRES | |
| BENCHMARK | REVISIONS | DATE | BY |
| | | | |

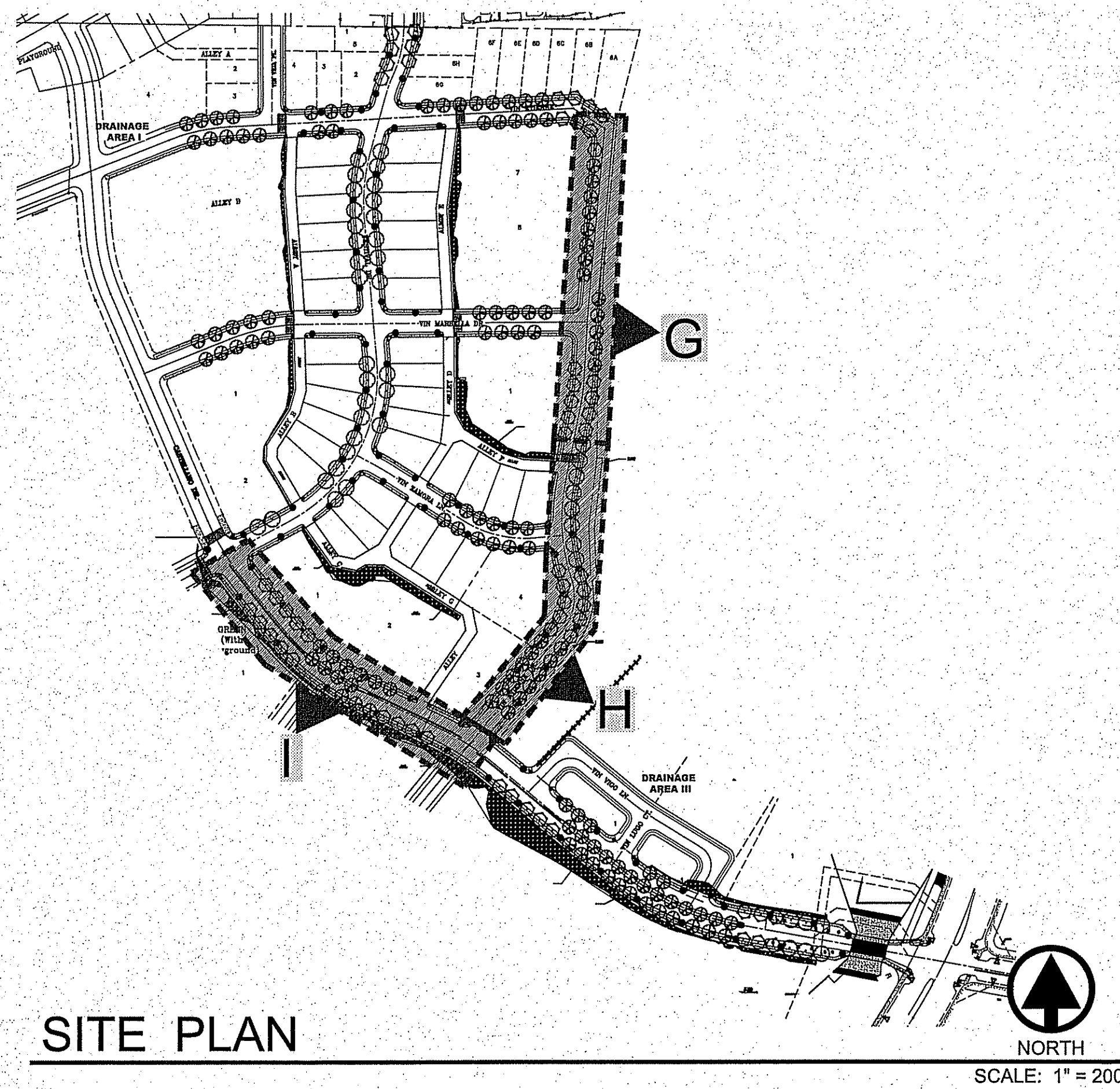
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| SCALE | HORIZ: AS NOTED |
| | VERT: AS NOTED |
| | DATE: MAY 2015 |
| | DESIGN BY: C.H. |
| | INITIATED BY: C.H. |
| | CHECKED BY: J.B.A. |
| | JOB NO.: 113-35 |

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

SHEET TITLE
LANDSCAPE PLAN
L-2.0

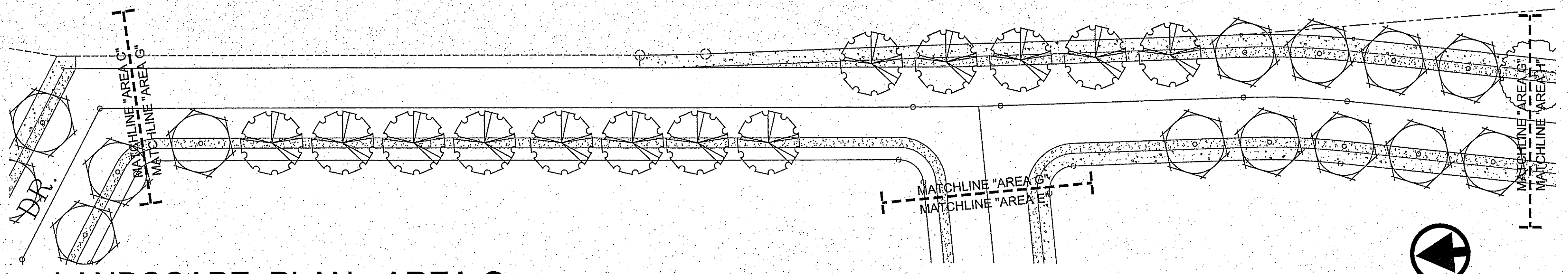
desert elements
 LANDSCAPE DESIGN, LLC
 1-3 ardovinio drive, sunland park, new mexico 88053
 DE-jennifer@dep-llc.com • phone: 575.599.9100

FILE LOCATION F:\Conde\Montecillo\MONTE4-CASTELLANO - LAND NEW NEW PLOTTED ON Thursday, June 11, 2015 2:32:49 PM BY JENNIFER BARR



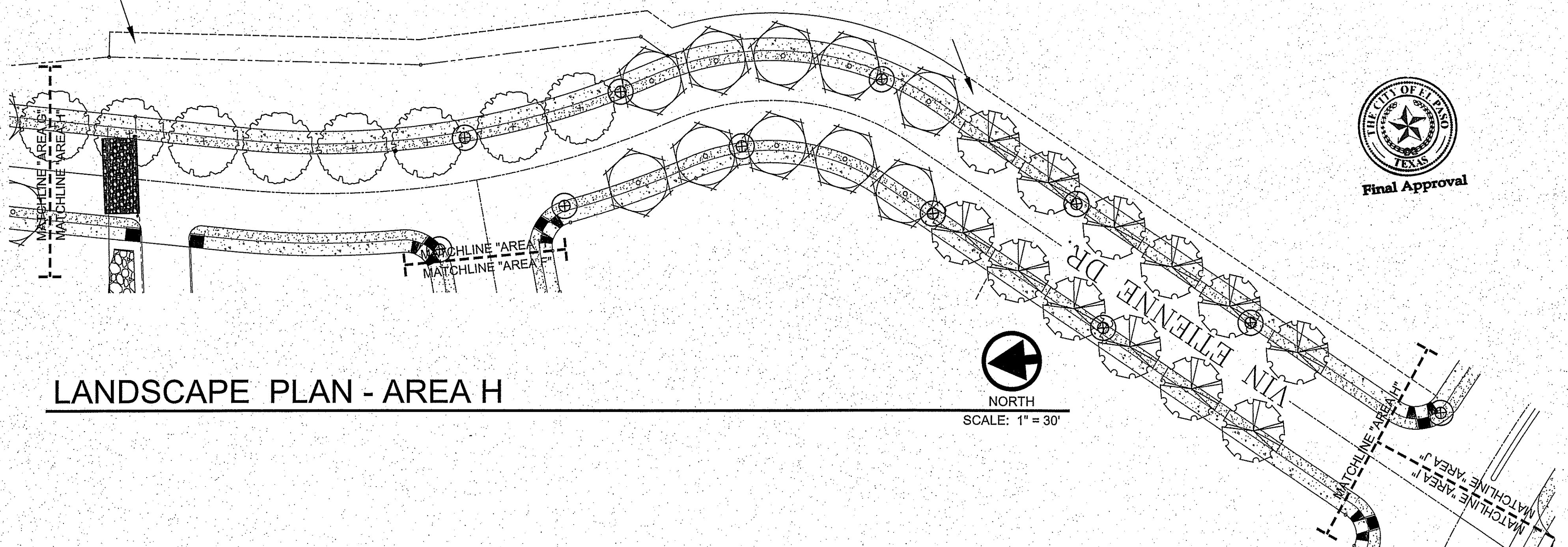
SITE PLAN

NORTH
SCALE: 1" = 200'



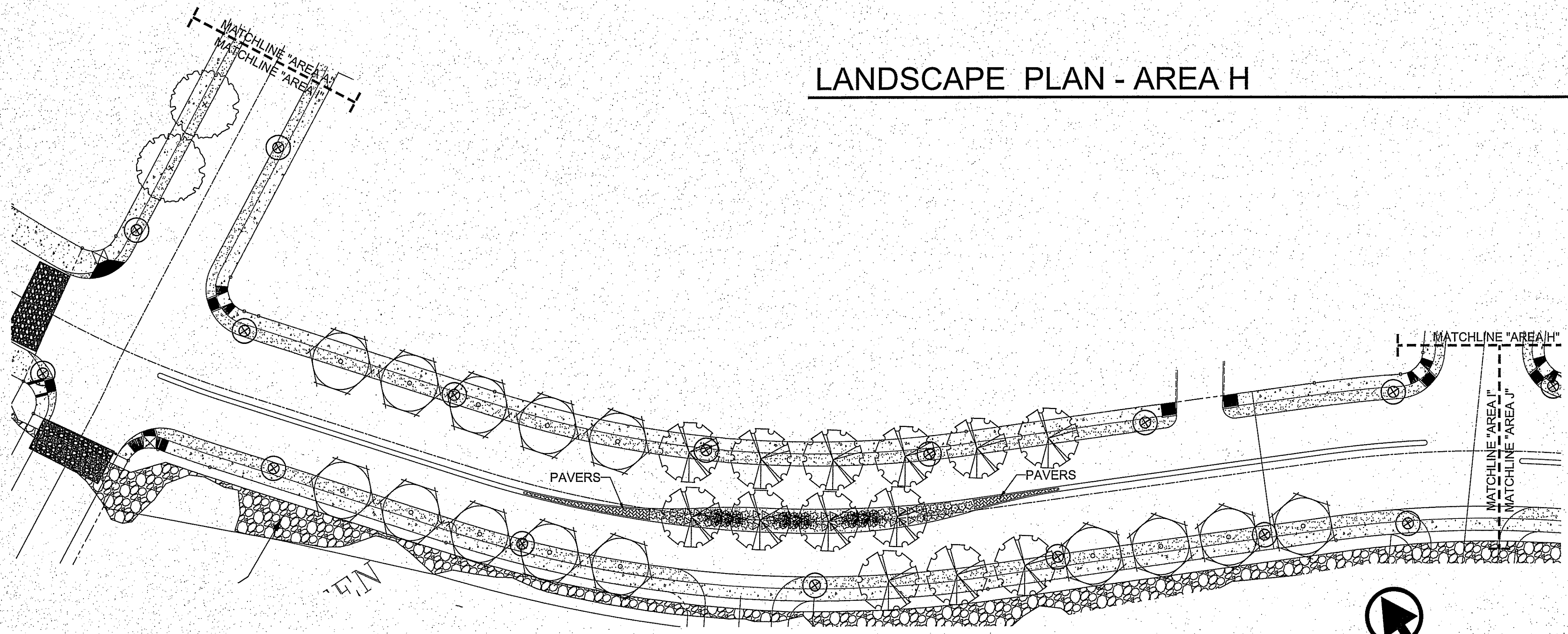
LANDSCAPE PLAN - AREA G

NORTH
SCALE: 1" = 30'



LANDSCAPE PLAN - AREA H

NORTH
SCALE: 1" = 30'



LANDSCAPE PLAN - AREA I

NORTH
SCALE: 1" = 30'

LANDSCAPE LEGEND

| SYMBOL | COMMON NAME | BOTANICAL NAME | QTY |
|---|--|---------------------------|-----|
| 3" CALIPER TREE - 10' HEIGHT MINIMUM | | | |
| | SOUTHERN LIVE OAK | QUERCUS VIRGINIANA | 42 |
| | CHINESE PISTACHE | PISTACIA CHINENSIS | 58 |
| | HONEY MESQUITE | PROSOPIS GLANDULOSA | 126 |
| SALVAGED PLANT - AVAILABLE AT SALVAGE YARD ON SITE | | | |
| | OCOTILLO (IF ON-SITE SALVAGED OCOTILLO HAVE DIED, USE CIMARRON SAGE - LEUCOPHYLLUM ZYGOPHYLLUM) | FOUQUIERIA SPLENDENS | 49 |
| | HAYSTACK CACTUS | ECHINOCEREUS | 70 |
| 5 GALLON SHRUB - 18" HEIGHT MINIMUM UNLESS OTHERWISE INDICATED | | | |
| | CLEVELAND SAGE | SALVIA CLEVELANDII | 80 |
| | NEW GOLD LANTANA | LANTANA CAMARA 'NEW GOLD' | 291 |
| | POWIS CASTLE | ARTEMISIA 'POWIS CASTLE' | 123 |
| DECORATIVE STONES & BOULDERS | | | |
| | BOULDER - DESERT TAN - 2'X2' - TO BE BURIED AT WIDEST POINT BOULDERS SHALL BE INSTALLED SO THAT THEY ARE WIDER THAN THEY ARE TALL | | |
| GRAVELS, & MULCHES | | | |

LANDSCAPE NOTES

- ALL UTILITY EASEMENTS SHALL BE MARKED PRIOR TO EXCAVATION, AND PARTICULAR ATTENTION PAID TO TREE PLACEMENT WITHIN AND THROUGHOUT SITE.
- THERE SHALL BE NO STEEL EDGING BETWEEN ROCK TYPES.
- CONTRACTOR SHALL PROVIDE ROCK SAMPLES AND OBTAIN APPROVAL FROM OWNER PRIOR TO FINAL DELIVERY OF QUARRIED MATERIALS.
- CONTRACTOR TO PAY CLOSE ATTENTION TO FINISH GRADES. SHOULD GRAVELLED AREAS EXCEED 4:1 SLOPE, CONTRACTOR TO OBTAIN APPROVAL OF LANDSCAPE DESIGNER PRIOR TO MULCH INSTALLATION.
- ALL TREES SHALL BE SINGLE LEADER TRUNK, UNLESS INDICATED IN PLANS.



MONTECILLO UNIT FOUR A
 BEING A REPEAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2,
 MONTECILLO UNIT THREE REPEAT "A", AND PORTION OF
 TRACTS 4228, A.F. MILLER SURVEY 24.5, AND PORTION OF
 TRACT 1, JOHN BARKER SURVEY 10,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 28.211± ACRES

PROJECT NAME: MONTECILLO UNIT FOUR A

SCALE: AS NOTED
 HORIZ: AS NOTED
 VERT: AS NOTED
 DATE: MAY 2015
 DESIGN BY: C.H.
 INITIATED BY: C.H.
 CHECKED BY: J.B.A.
 JOB NO.: 119-95

CONSULTANT'S SEAL

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

REGISTRATION No. P-2321

SHEET TITLE: LANDSCAPE PLAN

L-3.0

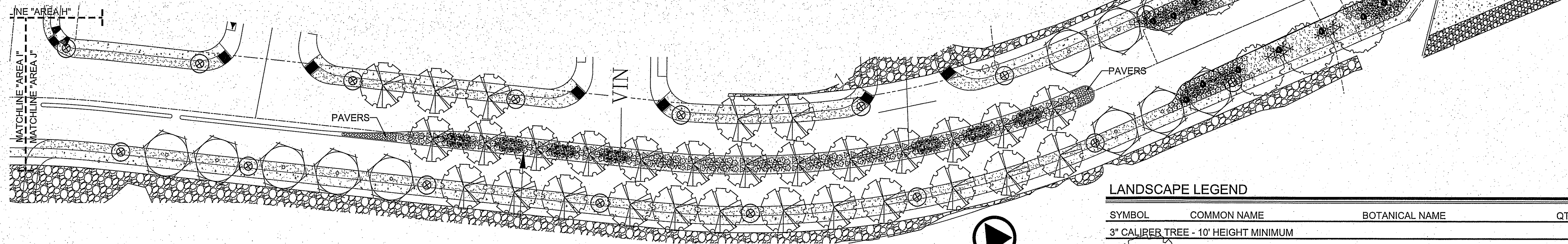
SHT 3 OF 8

MONTECILLO UNIT FOUR

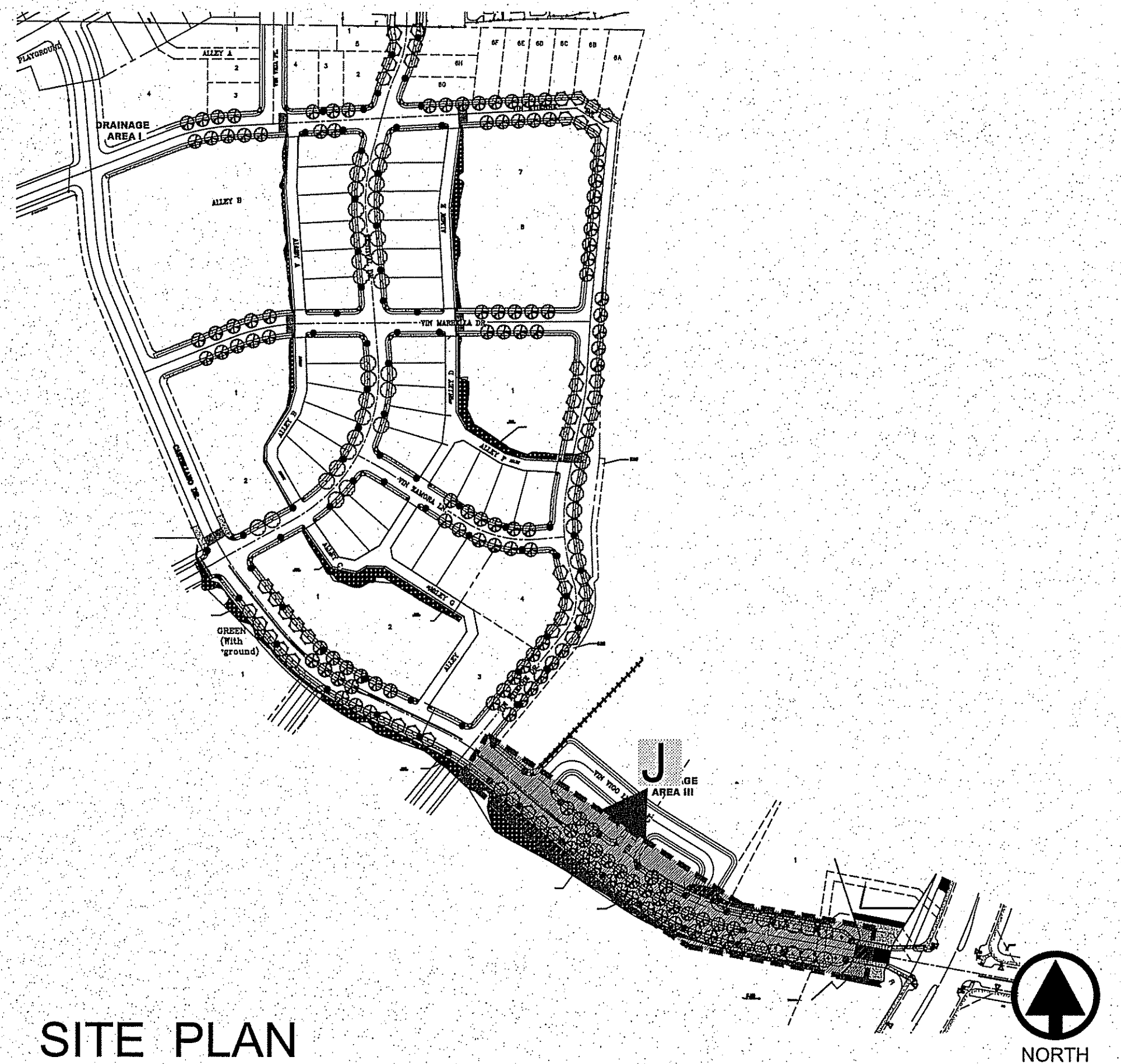
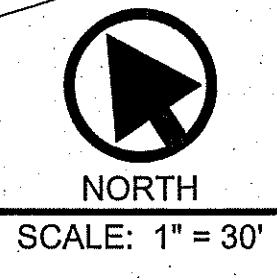


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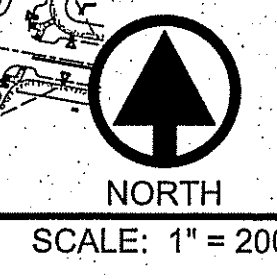
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LANDSCAPE PLAN - AREA J



SITE PLAN

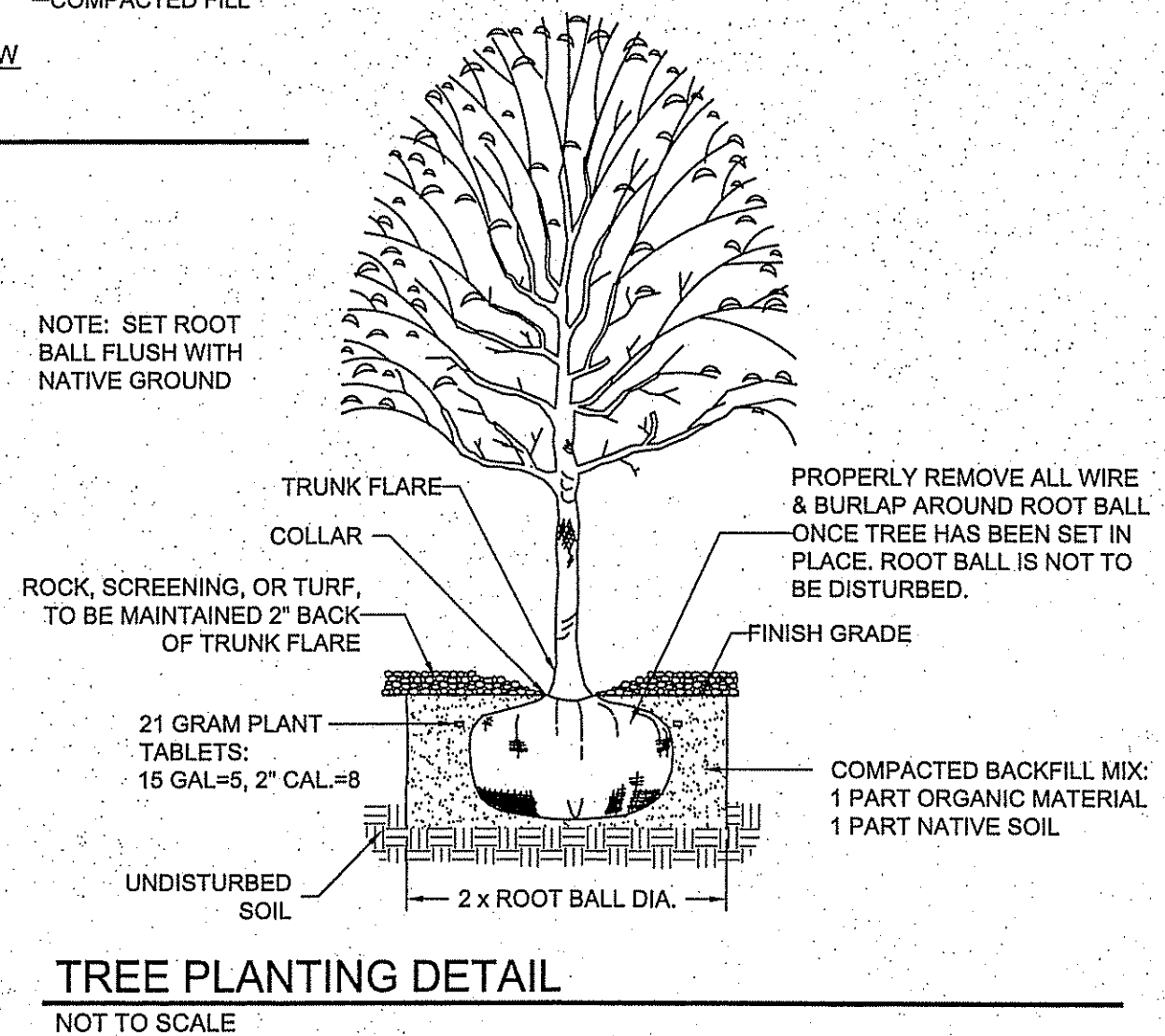
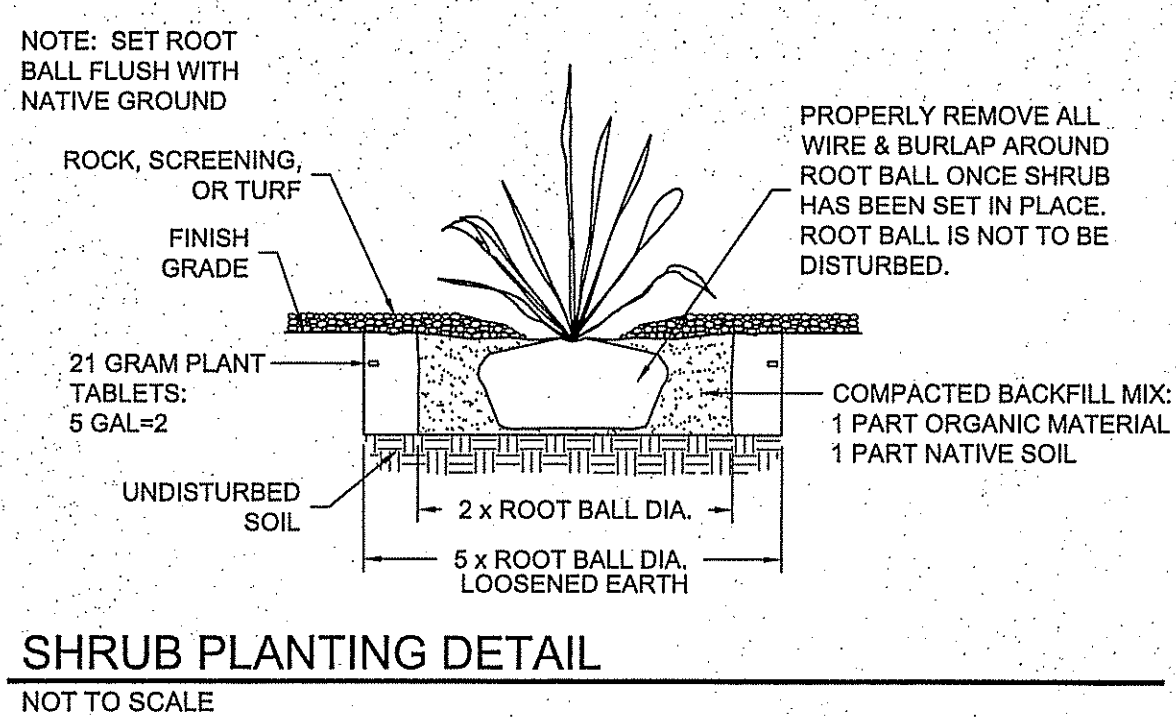
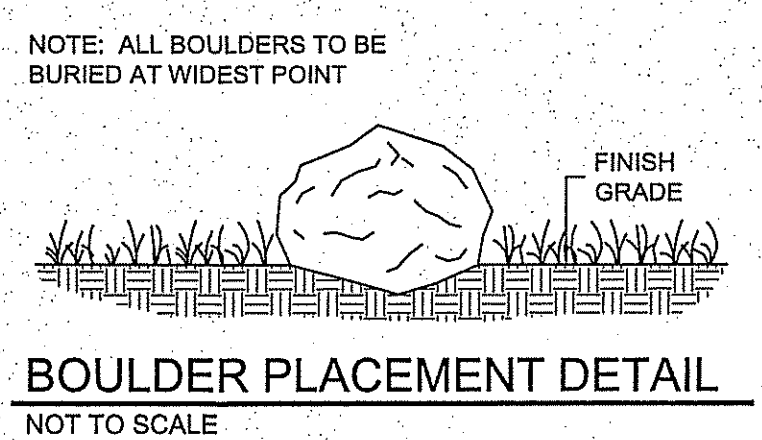
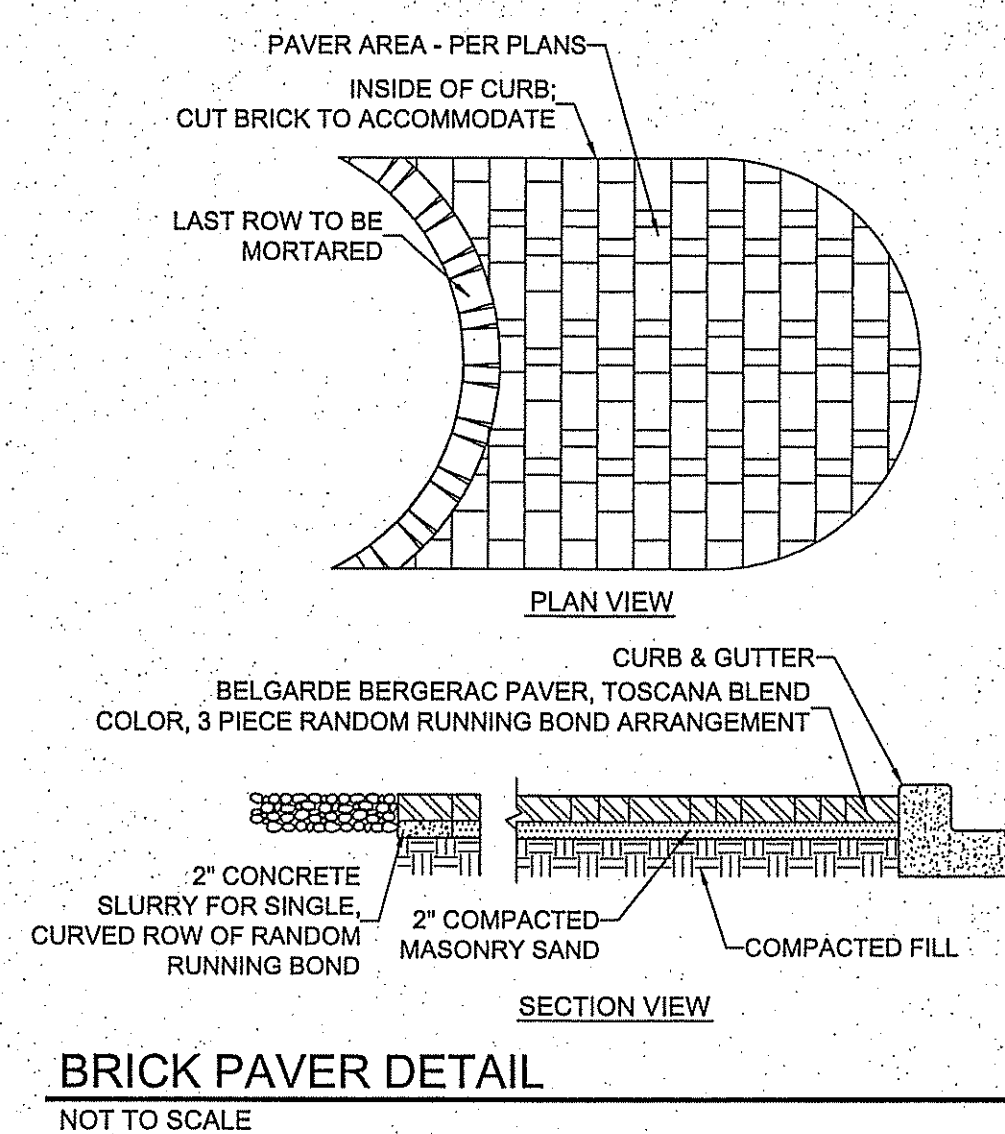
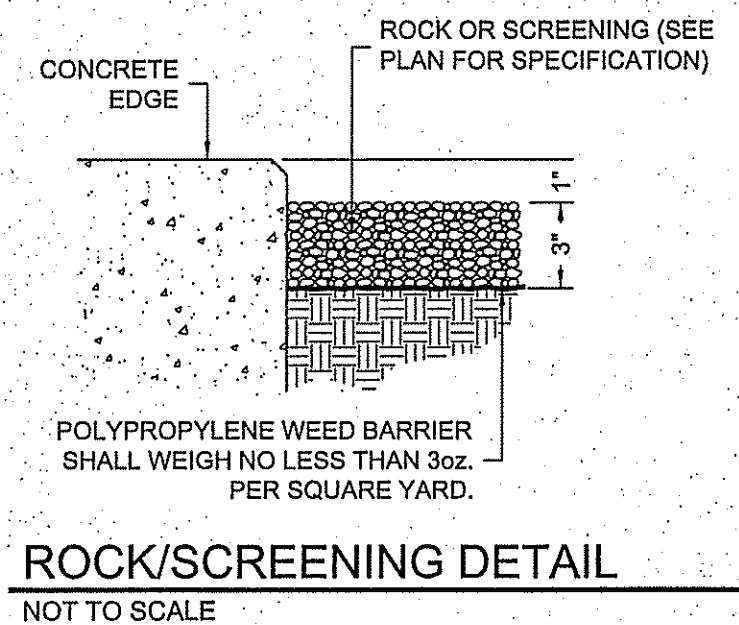


LANDSCAPE NOTES

- ALL UTILITY EASEMENTS SHALL BE MARKED PRIOR TO EXCAVATION, AND PARTICULAR ATTENTION PAID TO TREE PLACEMENT WITHIN AND THROUGHOUT SITE.
- THERE SHALL BE NO STEEL EDGING BETWEEN ROCK TYPES.
- CONTRACTOR SHALL PROVIDE ROCK SAMPLES AND OBTAIN APPROVAL FROM OWNER PRIOR TO FINAL DELIVERY OF QUARRIED MATERIALS.
- CONTRACTOR TO PAY CLOSE ATTENTION TO FINISH GRADES. SHOULD GRAVELLED AREAS EXCEED 4:1 SLOPE, CONTRACTOR TO OBTAIN APPROVAL OF LANDSCAPE DESIGNER PRIOR TO MULCH INSTALLATION.
- ALL TREES SHALL BE SINGLE LEADER TRUNK, UNLESS INDICATED IN PLANS.

LANDSCAPE LEGEND

| SYMBOL | COMMON NAME | BOTANICAL NAME | QTY |
|---|--|---------------------------|-----|
| 3" CALIBER TREE - 10' HEIGHT MINIMUM | | | |
| | SOUTHERN LIVE OAK | QUERCUS VIRGINIANA | 42 |
| | CHINESE PISTACHE | PISTACIA CHINENSIS | 58 |
| | HONEY MESQUITE | PROSOPIS GLANDULOSA | 126 |
| SALVAGED PLANT - AVAILABLE AT SALVAGE YARD ON SITE | | | |
| | OCOTILLO (IF ON-SITE SALVAGED OCOTILLO HAVE DIED, USE CIMARRON SAGE - LEUCOPHYLLUM ZYGOPHYLLUM) | FOUQUIERIA SPLENDENS | 49 |
| | HAYSTACK CACTUS | ECHINOCEREUS | 70 |
| 5 GALLON SHRUB - 18" HEIGHT MINIMUM UNLESS OTHERWISE INDICATED | | | |
| | CLEVELAND SAGE | SALVIA CLEVELANDII | 80 |
| | NEW GOLD LANTANA | LANTANA CAMARA 'NEW GOLD' | 291 |
| | POWIS CASTLE | ARTEMISIA 'POWIS CASTLE' | 123 |
| DECORATIVE STONES & BOULDERS | | | |
| | BOULDER - DESERT TAN - 2'X2' - TO BE BURIED AT WIDEST POINT BOULDERS SHALL BE INSTALLED SO THAT THEY ARE WIDER THAN THEY ARE TALL | | |
| GRAVELS, & MULCHES | | | |
| | 3/4" FRANKLIN RED ROCK, 3" DEPTH W/ MIRAFI 140NC WEED BARRIER | | |
| | CONCRETE PAVERS - PER DETAIL | | |



BENCHMARK

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

PROJECT NAME
MONTECILLO UNIT FOUR A

BEING A REPLANT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACTS 4F2B, A.F. MILLER SURVEY 215, AND PORTION OF TRACTS 4F2B, A.F. MILLER SURVEY 215, AND PORTION OF CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 28.211± ACRES

SCALE
HORIZ: AS NOTED
VERT: AS NOTED
DATE: MAY 2015
DESIGN BY: C.H.
INITIATED BY: C.H.
CHECKED BY: J.B.A.
JOB NO.: 119-35

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



SHEET TITLE
LANDSCAPE PLAN

L-4.0



SITE PLAN

SCALE: 1" = 200'

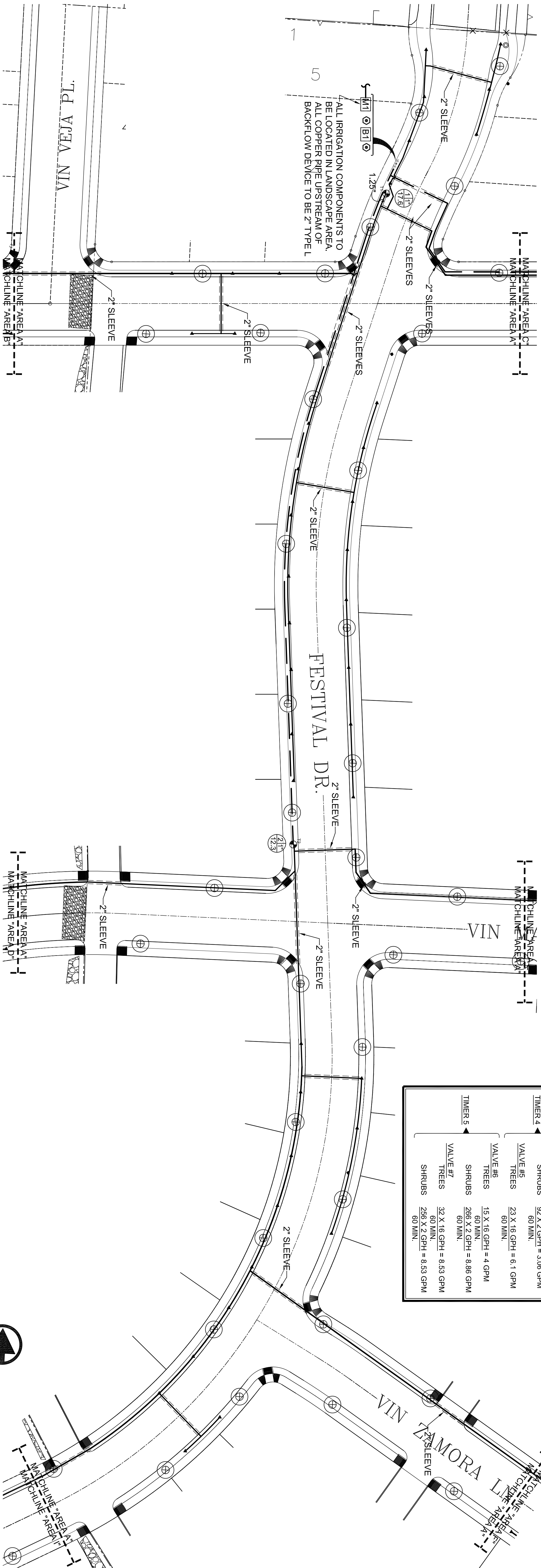


- ### IRRIGATION NOTES
- IRRIGATION IN TEXAS IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13067, AUSTIN, TX 78711.
 - DESIGN PRESSURE FOR IRRIGATION SYSTEM DOWNSTREAM OF VALVE IS 30 PSI.
 - CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING AND PROPOSED UTILITIES AND ALL SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
 - ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
 - IRRIGATION SHALL BE INSTALLED ACCORDING TO PLANS, DETAILS, AND SPECIFICATIONS. SHOULD CHANGES BE IMPLEMENTED IN THE FIELD, A NEW SET OF PLANS IS REQUIRED TO BE SUBMITTED TO THE CITY OF EL PASO. LANDSCAPE DESIGNER IS NOT UNDER CONTRACT TO PROVIDE THESE PLANS, EXCEPT AS PROVIDED FOR IN ORIGINAL CONTRACT.
 - CONTRACTOR WILL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS DESIGNED, WHEN IT IS OBVIOUS THAT FIELD CONDITIONS EXIST THAT WERE NOT CONSIDERED AT TIME OF DESIGNING THE SYSTEM. ANY CONDITIONS NOTED AS SUCH, SHALL BE REPORTED TO THE ARCHITECT AND IRRIGATION DESIGNER. IF THE CONTRACTOR FAILS TO DO SO, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY CORRECTIONS NEEDED.
 - PLANS SCHEMATIC FOR READABILITY, CONTRACTOR TO ADJUST AS NECESSARY TO FIT SITE.
 - CONTRACTOR SHALL VERIFY STATIC PRESSURE AT METER MEETS SYSTEM NEEDS. LICENSED IRRIGATOR TO AMEND AS NECESSARY.
 - PROVIDE SHUTOFF VALVE BETWEEN METER AND BACKFLOW.
 - CONTROL VALVE SHALL BE PROVIDED TO MAINLINE AFTER BACKFLOW.
 - CONTRACTOR IS RESPONSIBLE FOR CONNECTING AUTOMATIC CONTROLLER TO ELECTRICITY.
 - 1/4 GA. SOLID COPPER WIRE (PVC INSULATED AND UL APPROVED) SHALL RUN FROM CONTROLLER TO VALVES. COMMON WIRE TO BE 12GA.
 - ALL CONTROL WIRING FROM THE VALVES TO THE CONTROLLER MUST BE INSTALLED IN A 1" PVC CONDUIT PIPE IF BURIED BENEATH CONCRETE OR ASPHALT SURFACES.
 - LOCATE VALVES AWAY FROM LOW SPOTS OR AREAS OF DRAINAGE FLOW.
 - VALVE CAPS SHALL MATCH COLOR OF SURROUNDING MATERIAL, AS CLOSELY AS POSSIBLE.
 - ALL MAINLINES SHALL BE BURIED MIN. 18". ALL LATERALS 12".
 - MAINTAIN 4" MINIMUM CLEARANCE BETWEEN PIPE RUNNING IN THE SAME TRENCH. CONTROL WIRE SHALL ALWAYS BE TO THE SIDE AND BELOW THE TOP OF THE PIPE RUNNING IN THE SAME TRENCH.
 - POLYETHYLENE TUBING TO BE PLACED UNDER WEED BARRIER FABRIC. MICROTUBING TO BE STAKED.
 - THE CONTRACTOR SHALL PROVIDE THE OWNER WITH AS-BUILT DRAWINGS ON MYLAR PRIOR TO APPROVAL OF FINAL PAYMENT.
 - ALL PIPING/WIRING RUNNING BENEATH PAVED SURFACES (DRIVES, SIDEWALKS, ETC.) SHALL BE INSTALLED IN SCH 40 PVC SLEEVES. SLEEVES SHALL BE OF THE SIZE SO THAT THE INSIDE DIAMETER OF THE SLEEVE IS 3 TIMES GREATER THAN THAT OF THE COMBINED OUTER DIAMETER OF ALL ITEMS INSTALLED IN THE SLEEVES.
 - PEA GRAVEL SHALL BE INSTALLED AT THE BASE OF ALL VALVE BOXES, WITH A CLEARANCE OF MIN. 2" BETWEEN VALVE AND TOP OF GRAVEL.

IRRIGATION LEGEND

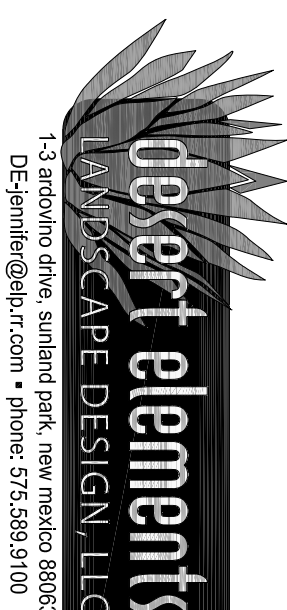
| SYMBOL | ITEM |
|--------|---|
| M | 1" METER |
| B | 1" FERCO 825Y RP BACKFLOW PREVENTER W/ ALUM. HOTBOX ENCLOSURE - MUST NOTE CLASS 2, ASSE #10690 FOR BACKFLOW |
| ⊕ | 1" BRASS PORT VALVE |
| T | 1" REMOTE CONTROL VALVE, RAINBRD 100-PESB W/ AMIAD Y FILTER AFTER THE VALVE |
| ⊙ | RAIN BIRD TBOS CONTROL (SEE DETAIL FOR INSTALLATION) |
| ⊙ | RAIN BIRD TBOS TRANSMITTER (SEE DETAIL FOR INSTALLATION) |
| ⊙ | 1" REMOTE CONTROL VALVE, RAINBRD 100-PESB W/ AMIAD Y FILTER AFTER THE VALVE |
| — | MAINLINE - SCHED. 40 PVC - 1.25" UNLESS OTHERWISE INDICATED |
| --- | 2" PVC SLEEVE UNLESS OTHERWISE INDICATED |
| --- | LATERAL LINE - SCHED. 40 PVC - 1" UNLESS OTHERWISE INDICATED |
| --- | RAINBRD XERBRD 8 MULTI-OUTLET EMISSION DEVICE |
| --- | RAINBRD XR-20 DRIP EMITTERS - 8 PER TREE |
| --- | RAINBRD XR-10PC DRIP EMITTERS - 2 PER SHRUB & GROUND COVER |
| A) | STATION NUMBER |
| B) | SIZE OF VALVE IN INCHES |
| C) | TOTAL GPM |

| HYDRAULIC CALCULATIONS | |
|------------------------|---|
| TIMER 1 | VALVE #1 TREES 68 X 16 GPH = 17.6 GPM 60 MIN. |
| TIMER 2 | VALVE #2 TREES 48 X 16 GPH = 12.3 GPM 60 MIN. |
| TIMER 3 | VALVE #3 TREES 44 X 16 GPH = 11.7 GPM 60 MIN. |
| TIMER 4 | VALVE #4 TREES 4 X 16 GPH = 1.06 GPM 60 MIN. SHRUBS 92 X 2 GPH = 3.06 GPM 60 MIN. |
| TIMER 5 | VALVE #5 TREES 23 X 16 GPH = 6.1 GPM 60 MIN. SHRUBS 15 X 16 GPH = 4 GPM 60 MIN. TREES 286 X 2 GPH = 8.88 GPM 60 MIN. |
| | VALVE #6 SHRUBS 32 X 16 GPH = 4 GPM 60 MIN. TREES 286 X 2 GPH = 8.53 GPM 60 MIN. |
| | VALVE #7 TREES 32 X 16 GPH = 4 GPM 60 MIN. SHRUBS 286 X 2 GPH = 8.53 GPM 60 MIN. |



IRRIGATION PLAN - AREA A

SCALE: 1" = 30'



MONTECILLO UNIT FOUR

CONSULTANT'S SEAL



SCALE
HORIZ: AS NOTED
VERT: AS NOTED
DATE: JULY 2015
DESIGN BY: C.H.
INITIATED BY: C.H.
CHECKED BY: J.B.A.
JOB NO.: 113-35

PROJECT NAME

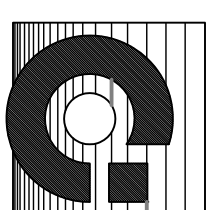
MONTECILLO UNIT FOUR

BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACTS 4F2B, A.F. MILLER SURVEY 215, AND PORTION OF TRACT 1, JOHN BARKER SURVEY 10, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 29.211± ACRES

BENCHMARK

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

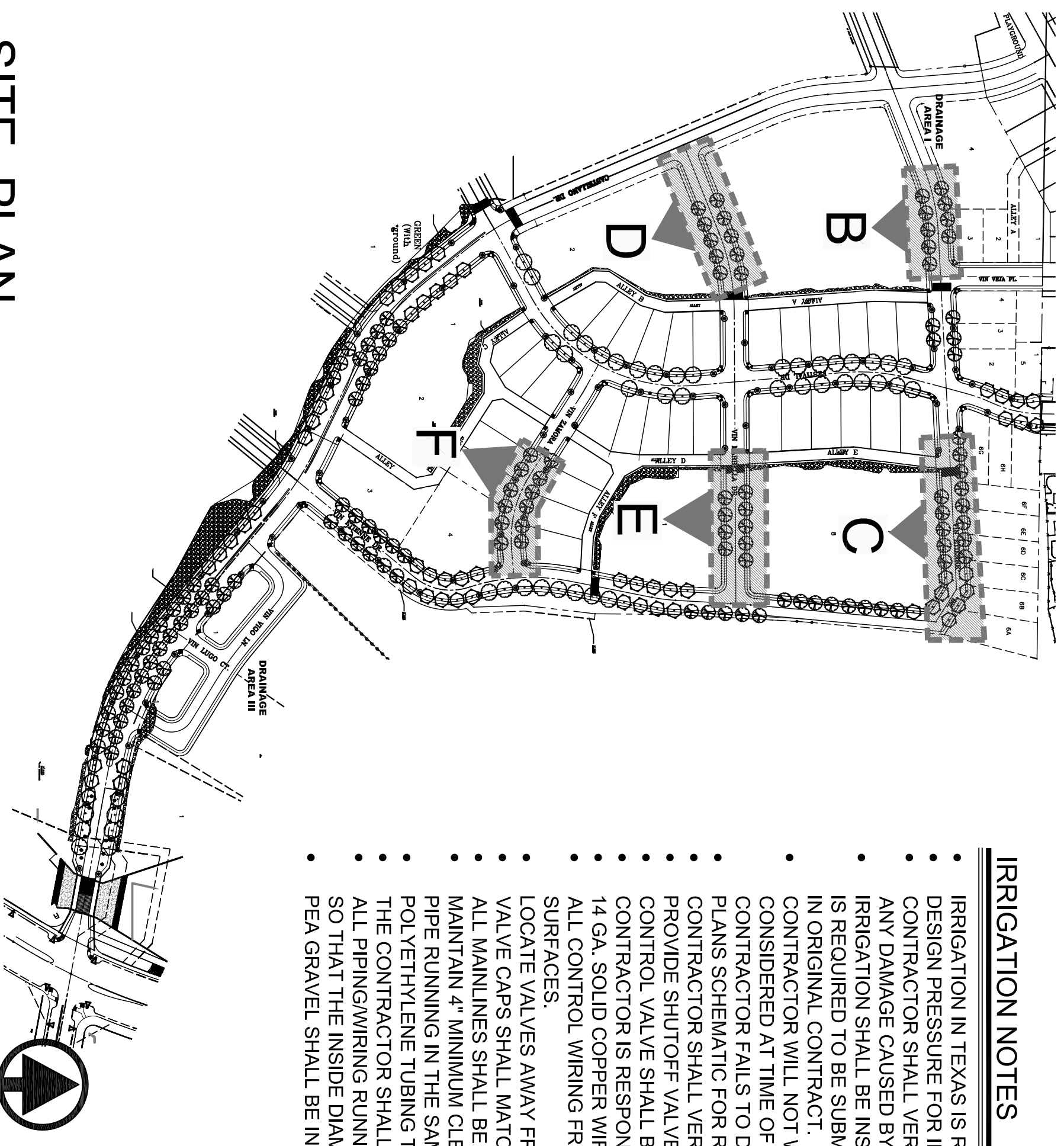
CONDE INC.
ENGINEERING / PLANNING
SURVEYING / GPS
6080 SURETY DR. STE 100
EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286



SHEET TITLE
IRRIGATION
PLAN

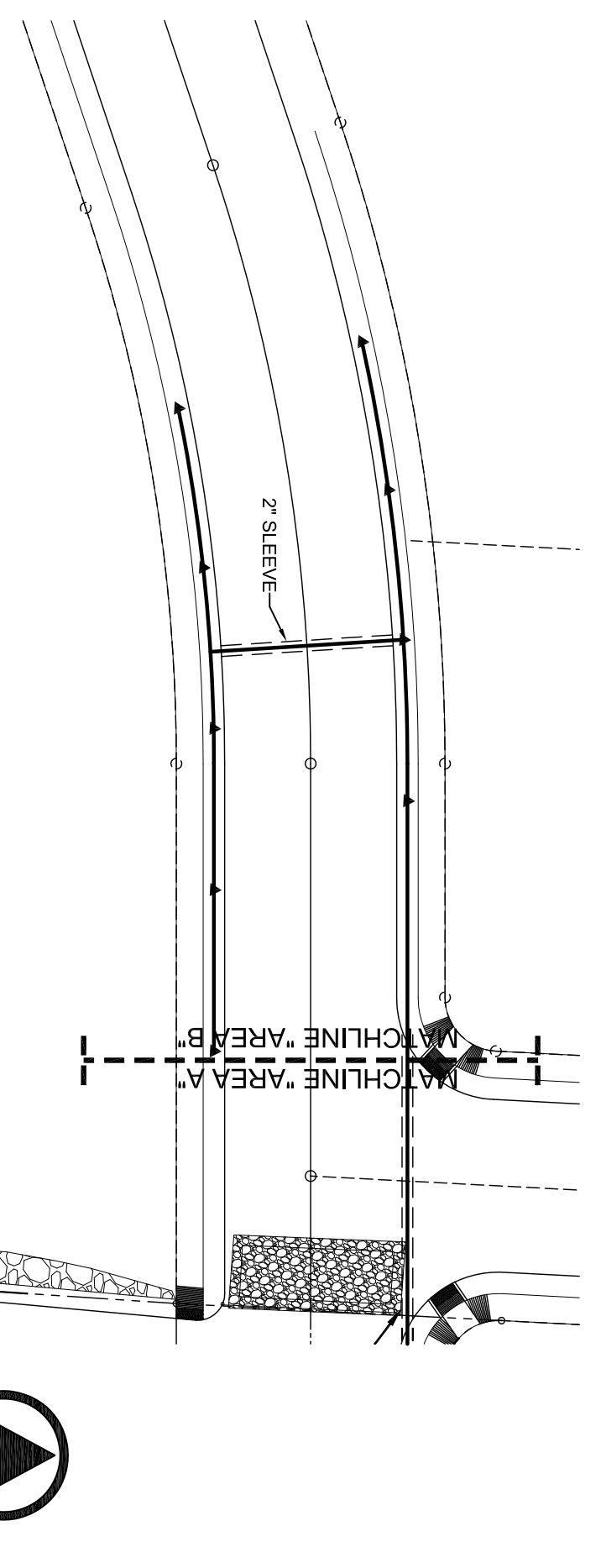
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SHT 5 OF 8



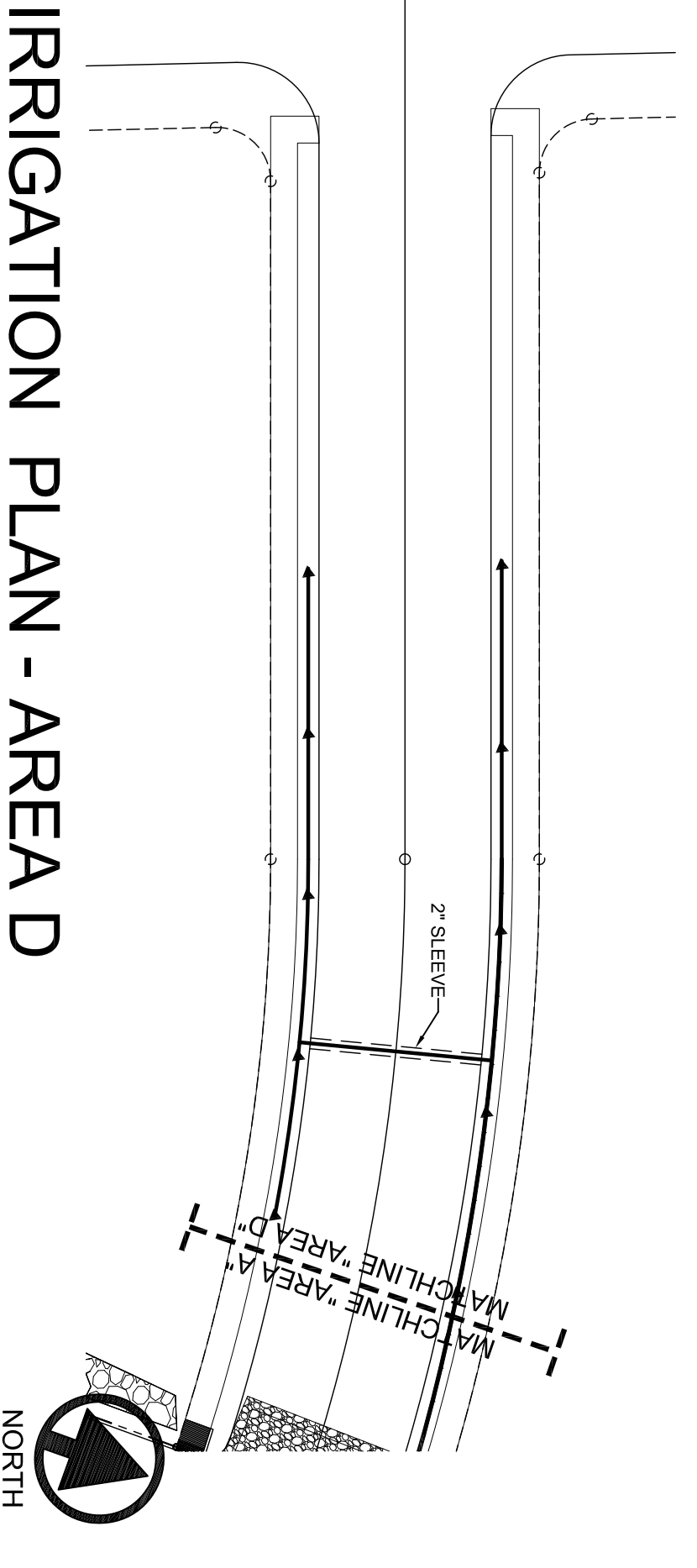
SITE PLAN

SCALE: 1" = 200'



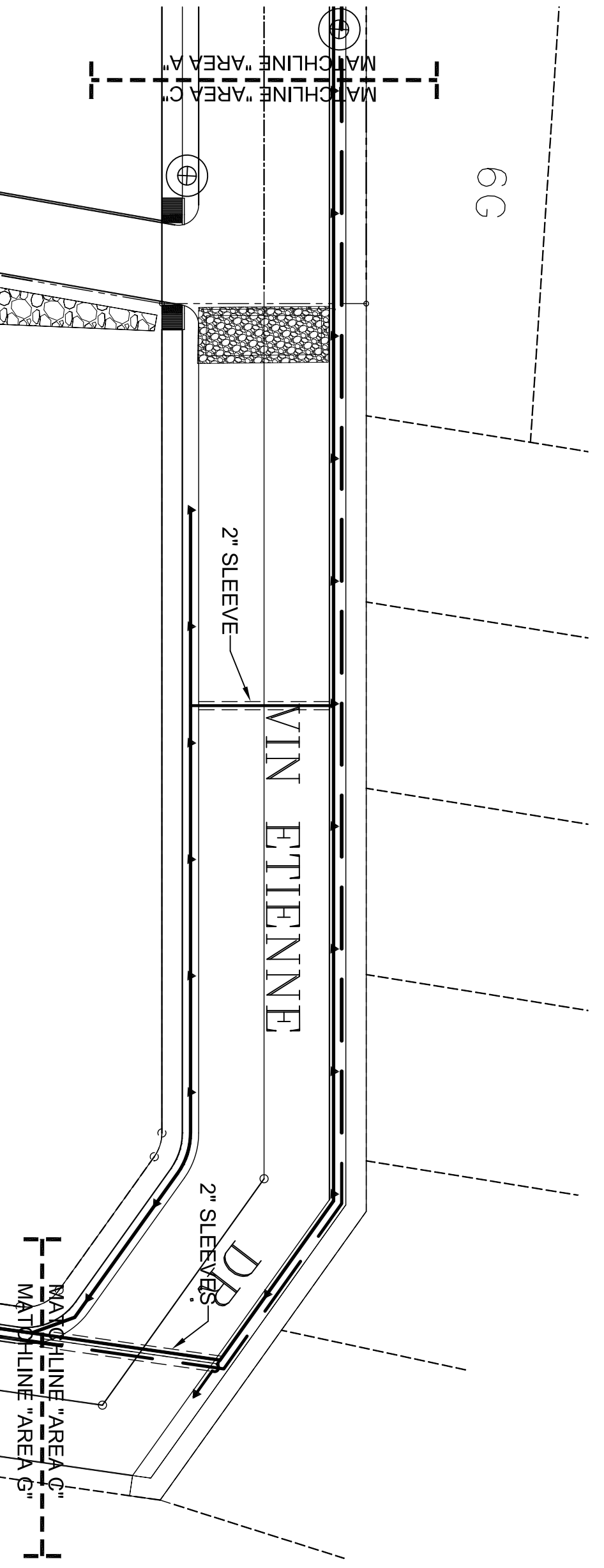
IRRIGATION PLAN - AREA B

SCALE: 1" = 30'



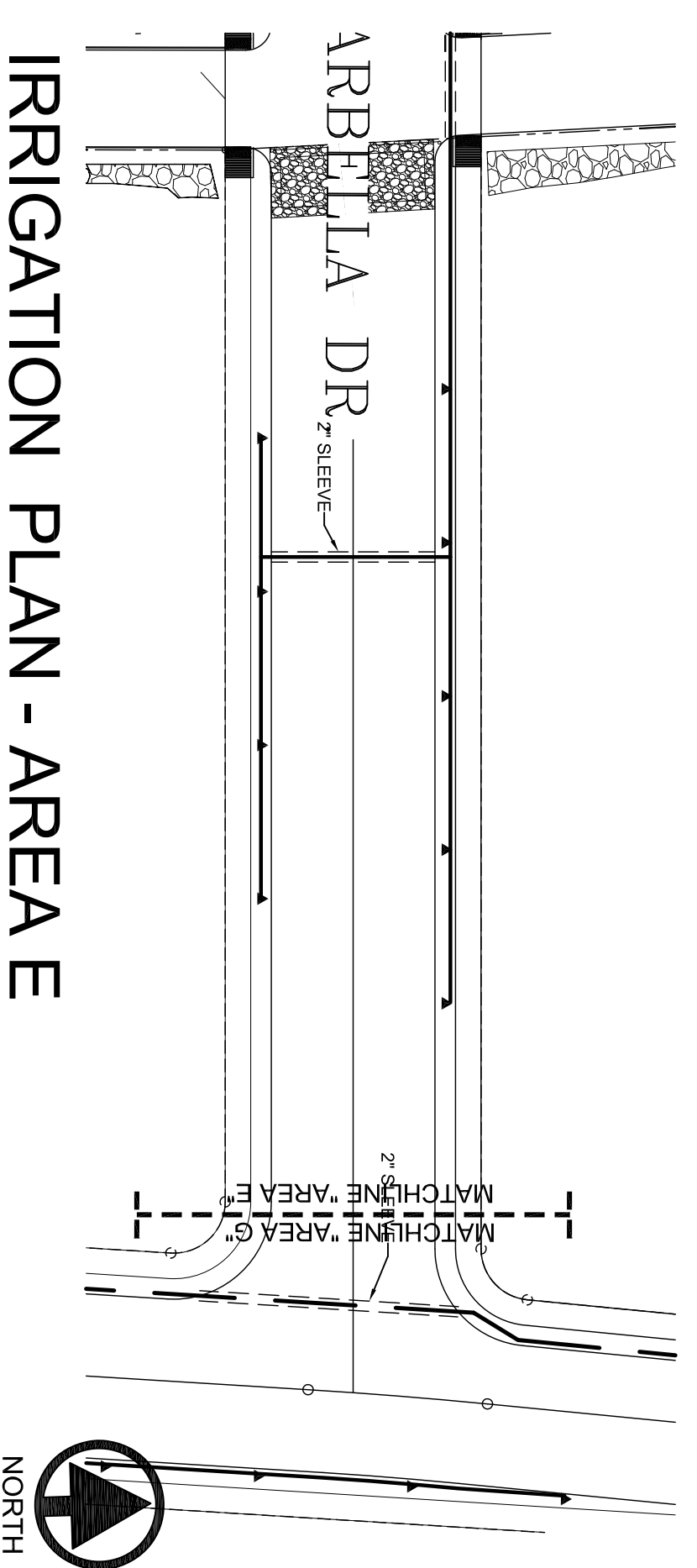
IRRIGATION PLAN - AREA D

SCALE: 1" = 30'



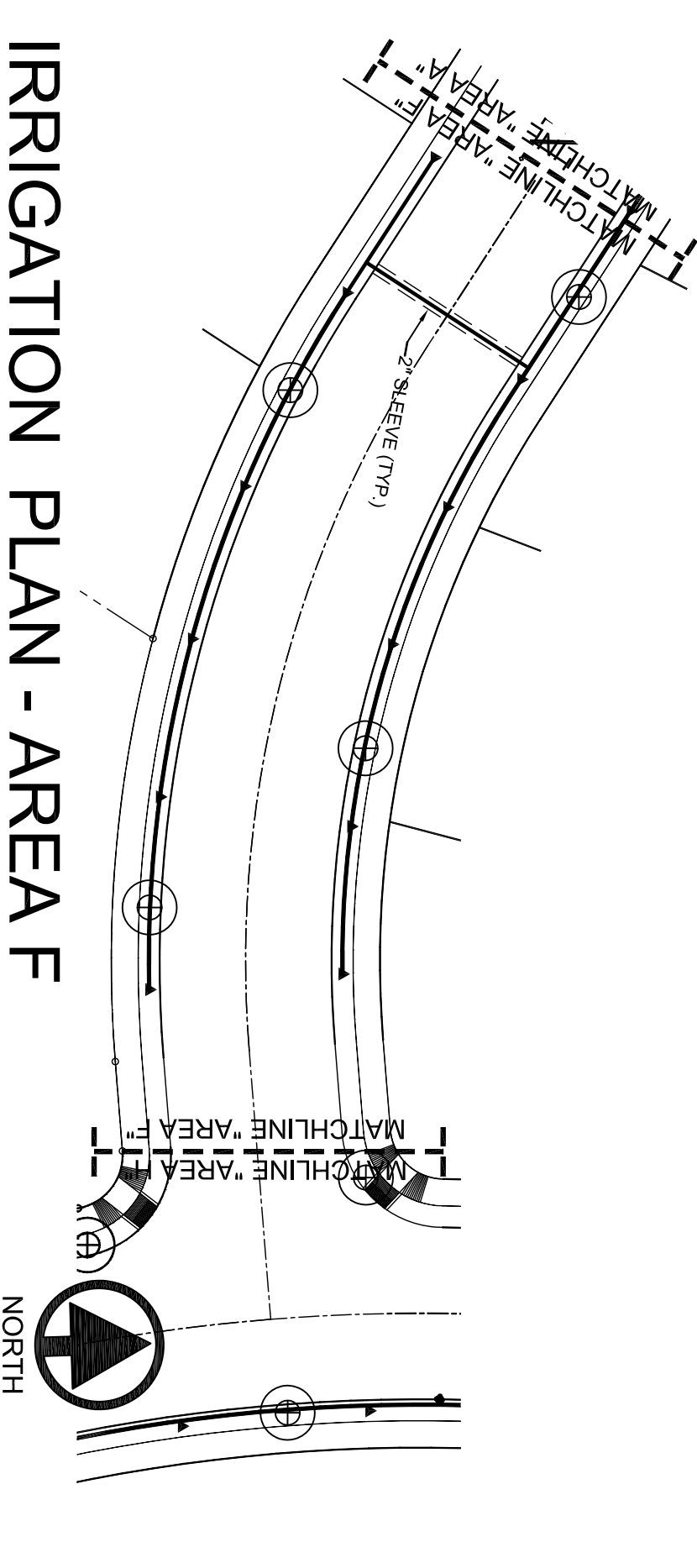
IRRIGATION PLAN - AREA C

SCALE: 1" = 30'



IRRIGATION PLAN - AREA E

SCALE: 1" = 30'



IRRIGATION PLAN - AREA F

SCALE: 1" = 30'

IRRIGATION NOTES

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- IRRIGATION SHALL BE INSTALLED ACCORDING TO EL PASO, LANDSCAPE DESIGNER IS NOT UNDER CONTRACT TO PROVIDE THESE PLANS. EXCEPT AS PROVIDED FOR IN ORIGINAL CONTRACT
- CONTRACTOR WILL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS DESIGNED, WHEN IT IS OBVIOUS THAT FIELD CONDITIONS EXIST THAT WERE NOT CONSIDERED AT TIME OF DESIGNING THE SYSTEM. ANY CONDITIONS NOTED AS SUCH, SHALL BE REPORTED TO THE ARCHITECT AND IRRIGATION DESIGNER. IF THE CONTRACTOR FAILS TO DO SO, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY CORRECTIONS NEEDED.
- PLANS SCHEMATIC FOR READABILITY. CONTRACTOR TO ADJUST AS NECESSARY TO FIT SITE.
- CONTRACTOR SHALL VERIFY STATIC PRESSURE AT METER MEETS SYSTEM NEEDS. LICENSED IRRIGATOR TO AMEND AS NECESSARY.
- PROVIDE SHUTOFF VALVE BETWEEN METER AND BACKFLOW.
- CONTROL VALVE SHALL BE PROVIDED TO MAINLINE AFTER BACKFLOW.
- CONTRACTOR IS RESPONSIBLE FOR CONNECTING AUTOMATIC CONTROLLER TO ELECTRICITY.
- 1/4 GA. SOLID COPPER WIRE (PVC INSULATED AND UL APPROVED) SHALL RUN FROM CONTROLLER TO VALVES. COMMON WIRE TO BE 12GA.
- ALL CONTROL WIRING FROM THE VALVES TO THE CONTROLLER MUST BE INSTALLED IN A 1" PVC CONDUIT PIPE IF BURIED BENEATH CONCRETE OR ASPHALT SURFACES.
- LOCATE VALVES AWAY FROM LOW SPOTS OR AREAS OF DRAINAGE FLOW.
- VALVE CAPS SHALL MATCH COLOR OF SURROUNDING MATERIAL, AS CLOSELY AS POSSIBLE.
- ALL MAINLINES SHALL BE BURIED MIN. 18". ALL LATERALS 12".
- MAINTAIN 4" MINIMUM CLEARANCE BETWEEN PIPE RUNNING IN THE SAME TRENCH. CONTROL WIRE SHALL ALWAYS BE TO THE SIDE AND BELOW THE TOP OF THE PIPE RUNNING IN THE SAME TRENCH.
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- ALL PIPING/WIRING RUNNING BENEATH PAVED SURFACES (DRIVES, SIDEWALKS, ETC.) SHALL BE INSTALLED IN SCH. 40 PVC SLEEVES. SLEEVES SHALL BE OF THE SIZE SO THAT THE INSIDE DIAMETER OF THE SLEEVE IS 3 TIMES GREATER THAN THAT OF THE COMBINED OUTER DIAMETER OF ALL ITEMS INSTALLED IN THE SLEEVES.
- PEA GRAVEL SHALL BE INSTALLED AT THE BASE OF ALL VALVE BOXES, WITH A CLEARANCE OF MIN. 2" BETWEEN VALVE AND TOP OF GRAVEL.

IRRIGATION LEGEND

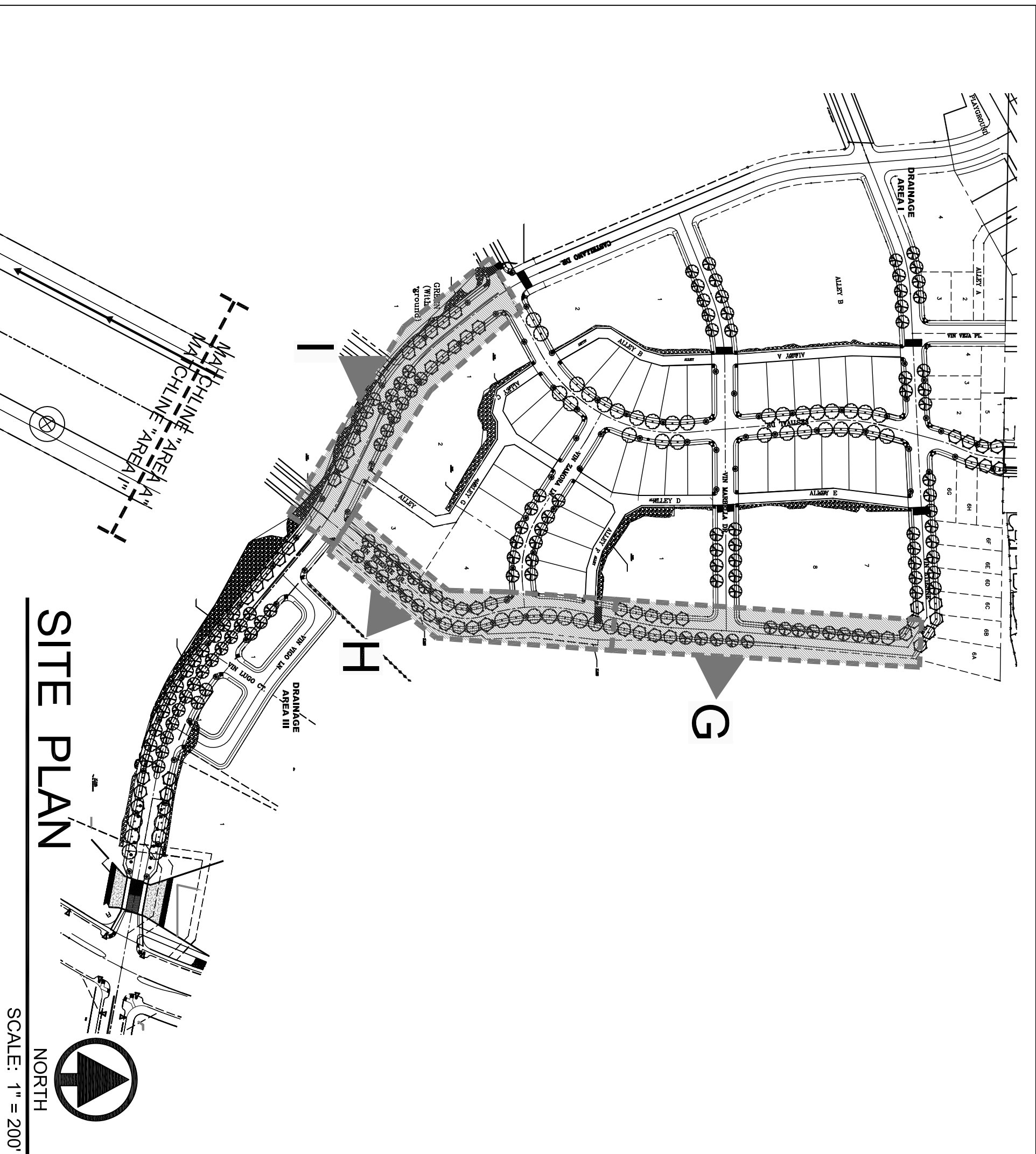
| SYMBOL | ITEM |
|--------|--|
| M | 1" METER |
| B | 1" FERCO 825Y RP BACKFLOW PREVENTER W/ ALUM. HOTBOX ENCLOSURE - MUST NOTE CLASS 2, ASSE #10600 FOR BACKFLOW |
| ⊕ | 1" BRASS PORT VALVE |
| ⊙ | 1" REMOTE CONTROL VALVE, RAINBRID 100-PESB W/ AMIAD Y FILTER AFTER THE VALVE |
| ⊙ | RAIN BRID TBOS CONTROLLER WITH POTTED LATCHING SOLENOID & TBOS FIELD TRANSMITTER (SEE DETAIL FOR INSTALLATION) |
| ⊙ | 1" REMOTE CONTROL VALVE, RAINBRID 100-PESB W/ AMIAD Y FILTER AFTER THE VALVE |
| — | MAINLINE - SCHED. 40 PVC - 1.25" UNLESS OTHERWISE INDICATED |
| --- | 2" PVC SLEEVE UNLESS OTHERWISE INDICATED |
| --- | LATERAL LINE - SCHED. 40 PVC - 1" UNLESS OTHERWISE INDICATED |
| ▲ | RAINBRID XERBRID 8 MULTI-OUTLET EMISSION DEVICE |
| ▲ | RAINBRID XR-20 DRIP EMITTERS - 8 PER TREE |
| ▲ | RAINBRID XR-10PC DRIP EMITTERS - 2 PER SHRUB & GROUND COVER |
| A/B | A) STATION NUMBER B) SIZE OF VALVE IN INCHES |
| C) | TOTAL GPM |

HYDRAULIC CALCULATIONS

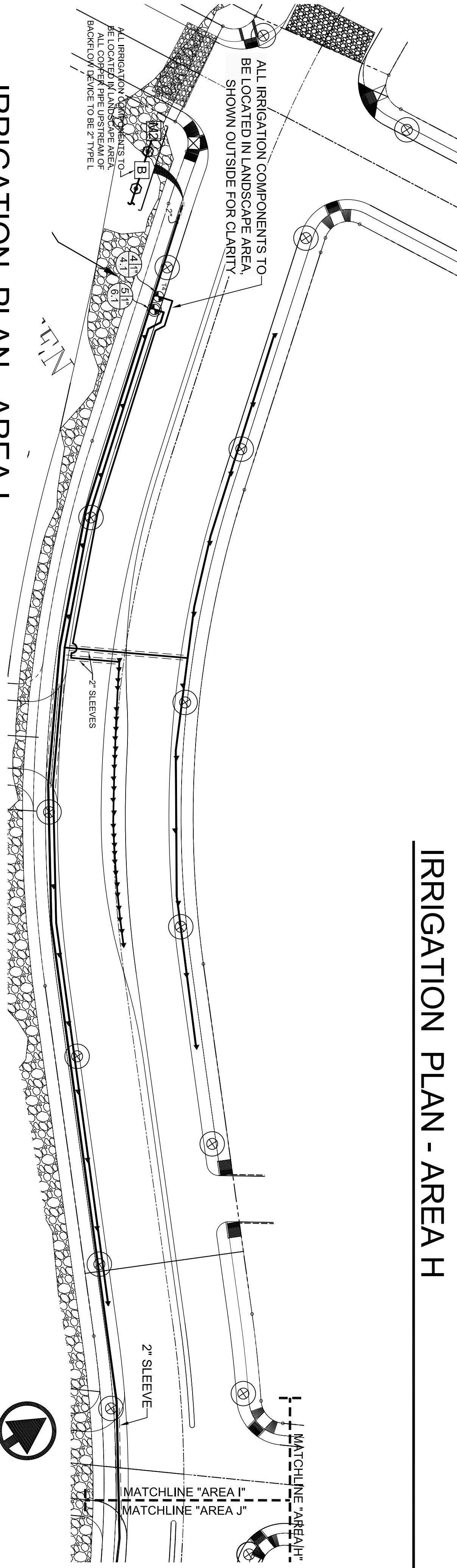
| TIMER | VALVE # | PLANT TYPE | FLOW RATE |
|---------|----------|------------|------------------------------------|
| TIMER 1 | VALVE #1 | TREES | 66 X 1/8 GPH = 17.6 GPM 60 MIN. |
| TIMER 2 | VALVE #2 | TREES | 46 X 1/8 GPH = 12.3 GPM 60 MIN. |
| TIMER 3 | VALVE #3 | TREES | 44 X 1/8 GPH = 11.7 GPM 60 MIN. |
| TIMER 4 | VALVE #4 | TREES | 4 X 1/8 GPH = 1.08 GPM 60 MIN. |
| TIMER 4 | VALVE #4 | SHRUBS | 92 X 2 GPH = 3.08 GPM 60 MIN. |
| TIMER 4 | VALVE #5 | TREES | 23 X 1/8 GPH = 6.1 GPM 60 MIN. |
| TIMER 4 | VALVE #6 | TREES | 13 X 1/8 GPH = 4 GPM 60 MIN. |
| TIMER 4 | VALVE #6 | SHRUBS | 269 X 2 GPH = 8.96 GPM 60 MIN. |
| TIMER 4 | VALVE #7 | TREES | 32 X 1/8 GPH = 8.53 GPM 60 MIN. |
| TIMER 4 | VALVE #7 | SHRUBS | 256 X 2 GPH = 8.53 GPM 60 MIN. |



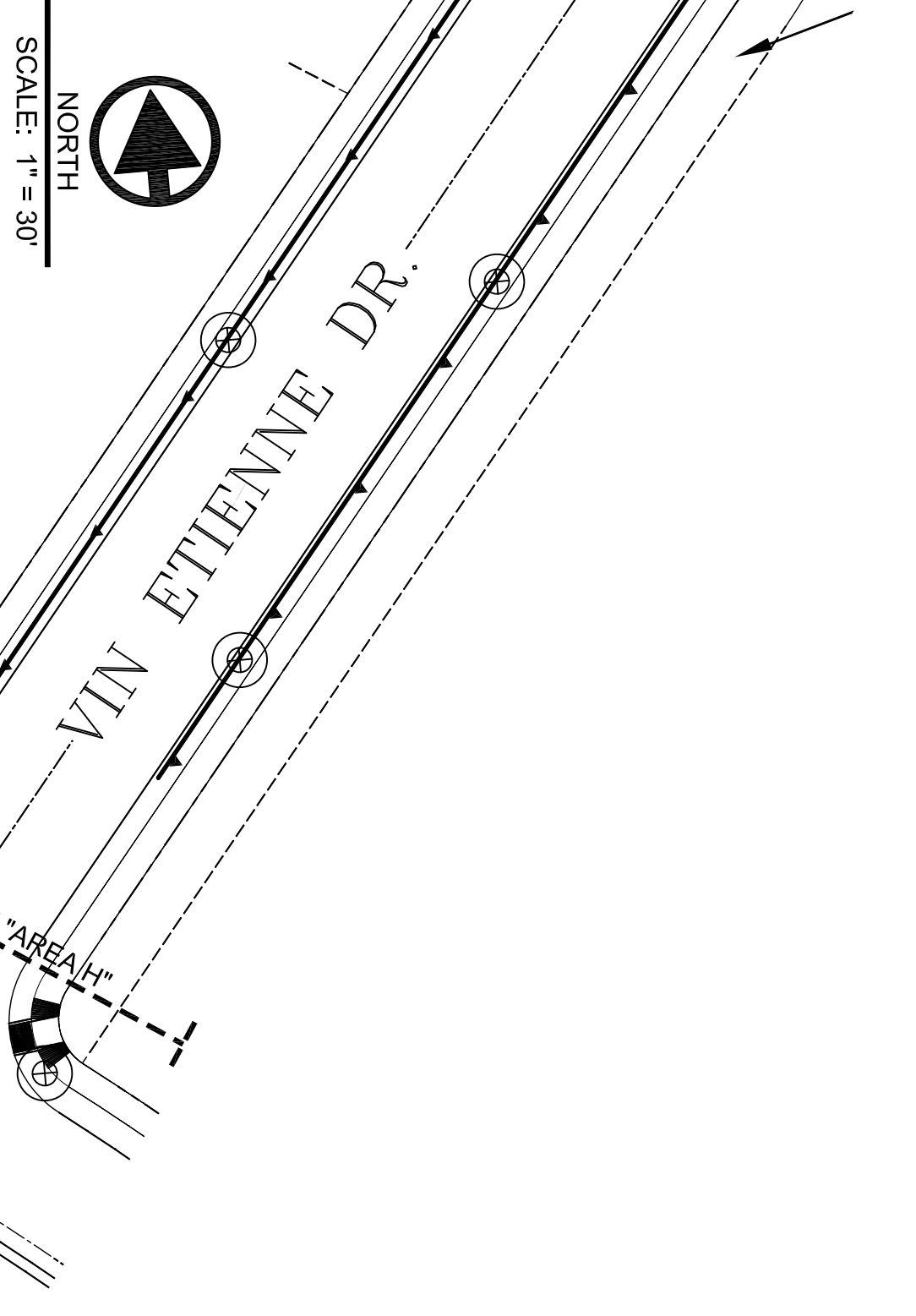
| <p>CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURETY DR. STE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286</p> | <p>CONSULTANT'S SEAL S C A L E HORIZ: AS NOTED VERT: AS NOTED DATE: JULY 2015 DESIGN BY: C.H. INITIATED BY: C.H. CHECKED BY: J.B.A. JOB NO.: 113-35</p> | <p>PROJECT NAME MONTECILLO UNIT FOUR BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACTS 4F2B, A.F. MILLER SURVEY 215, AND PORTION OF TRACT 1, JOHN BARKER SURVEY 10, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 29.211± ACRES</p> | <p>BENCHMARK</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>REVISIONS</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | | | DATE | REVISIONS | BY | | | |
|--|---|--|--|-----------|----|------|-----------|----|--|--|--|
| | | | DATE | REVISIONS | BY | | | | | | |
| | | | | | | | | | | | |
| <p>SHEET 6 OF 8</p> | <p>MONTECILLO UNIT FOUR</p> | <p>IRRI GATION PLAN</p> | <p>SHEET TITLE</p> | | | | | | | | |



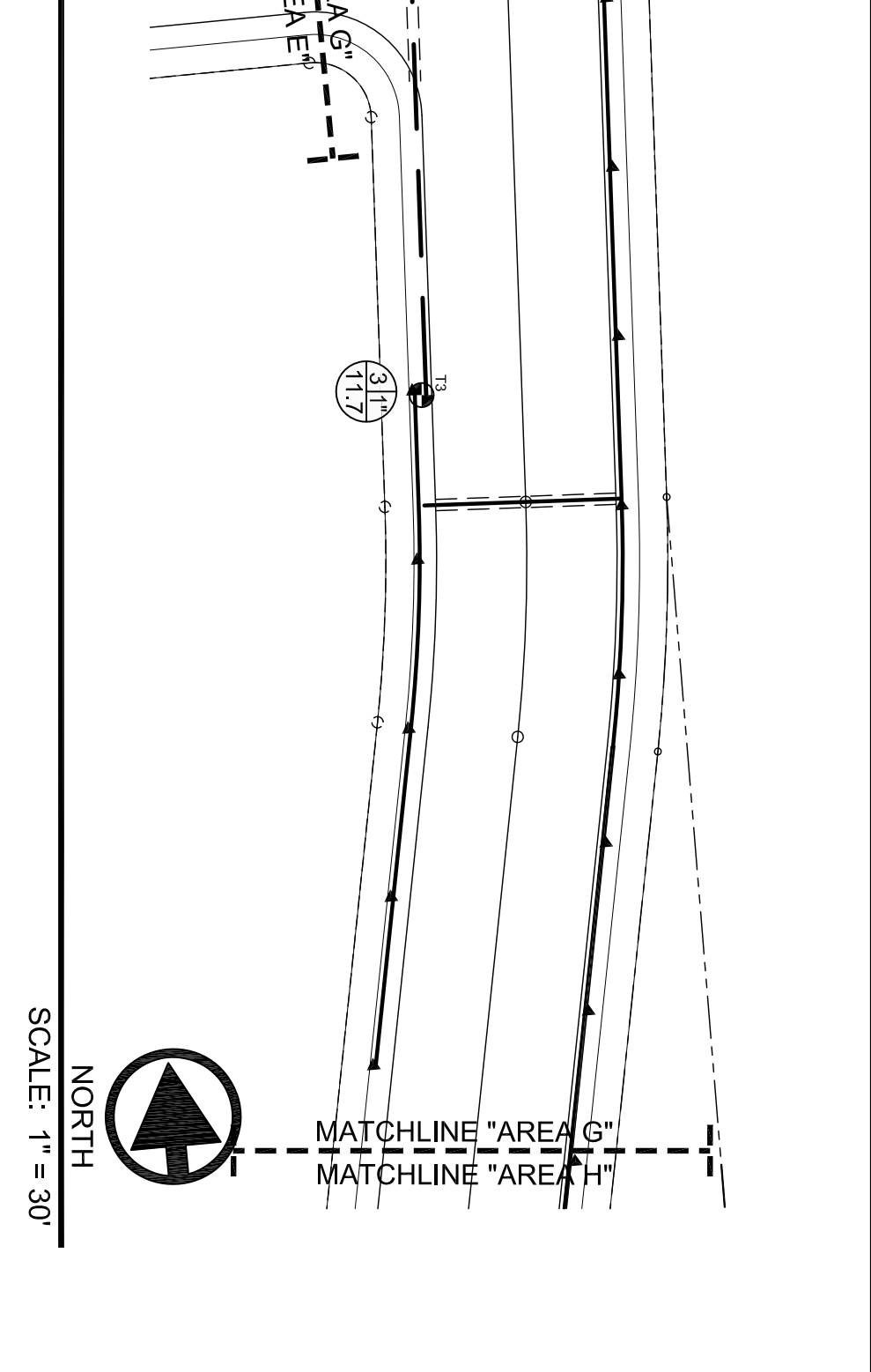
IRRIGATION PLAN - AREA I



IRRIGATION PLAN - AREA H



IRRIGATION PLAN - AREA G



IRRIGATION NOTES

- IRRIGATION IN TEXAS IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13067, AUSTIN, TX 78711.
- DESIGN PRESSURE FOR IRRIGATION SYSTEMS SHALL BE 100 PSI UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY THE EXISTING UTILITIES AND PROPOSED UTILITIES AND ALL SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
- ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- IRRIGATION SHALL BE INSTALLED ACCORDING TO PLANS, DETAILS, AND SPECIFICATIONS. SHOULD CHANGES BE IMPLEMENTED IN THE FIELD, A NEW SET OF PLANS IS REQUIRED TO BE SUBMITTED TO THE CITY OF EL PASO. LANDSCAPE DESIGNER IS NOT UNDER CONTRACT TO PROVIDE THESE PLANS, EXCEPT AS PROVIDED FOR IN ORIGINAL CONTRACT.
- CONTRACTOR WILL NOT INSTALL IRRIGATION SYSTEM AS DESIGNED, WHEN IT IS OBVIOUS THAT FIELD CONDITIONS EXIST THAT WERE NOT CONSIDERED AT TIME OF DESIGNING THE SYSTEM. ANY CONDITIONS NOTED AS SUCH, SHALL BE REPORTED TO THE ARCHITECT AND IRRIGATION DESIGNER. IF THE CONTRACTOR FAILS TO DO SO, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY CORRECTIONS NEEDED.
- PLANS SCHEMATIC FOR READABILITY, CONTRACTOR TO ADJUST AS NECESSARY TO FIT SITE.
- PROVIDE SHUTOFF VALVE BETWEEN METER AND BACKFLOW.
- CONTROL VALVE SHALL BE PROVIDED TO MANUALLY OPERATE BACKFLOW.
- CONTRACTOR IS RESPONSIBLE FOR CONNECTING AUTOMATIC CONTROLLER TO ELECTRICITY.
- 1/4" GA. SOLID COPPER WIRE (PVC INSULATED AND UL APPROVED) SHALL RUN FROM CONTROLLER TO ALL VALVES COMMON WIRE TO BE 12GA.
- ALL CONTROL WIRING FROM THE VALVES TO THE CONTROLLER MUST BE INSTALLED IN A 1" PVC CONDUIT PIPE IF BURIED BENEATH CONCRETE OR ASPHALT SURFACES.
- LOCATE VALVES AWAY FROM LOW SPOTS OR AREAS OF DRAINAGE FLOW.
- VALVE CAPS SHALL MATCH COLOR OF SURROUNDING MATERIAL, AS CLOSELY AS POSSIBLE.
- ALL MAINLINES SHALL BE BURIED MIN. 18" ALL LATERALS 12".
- MAINTAIN 4" MINIMUM CLEARANCE BETWEEN PIPE RUNNING IN THE SAME TRENCH. CONTROL WIRE SHALL ALWAYS BE TO THE SIDE AND BELOW THE TOP OF THE PIPE RUNNING IN THE SAME TRENCH.
- POLYETHYLENE TUBING TO BE PLACED UNDER WEED BARRIER FABRIC. MICRO TUBING TO BE STAKED.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH AS-BUILT DRAWINGS ON MYLAR PRIOR TO APPROVAL OF FINAL PAYMENT.
- ALL PIPING/WIRING RUNNING BENEATH PAVED SURFACES (DRIVES, SIDEWALKS, ETC.) SHALL BE INSTALLED IN SCH 40 PVC SLEEVES. SLEEVES SHALL BE OF THE SIZE SO THAT THE INSIDE DIAMETER OF THE SLEEVE IS 3 TIMES GREATER THAN THAT OF THE COMBINED OUTER DIAMETER OF ALL ITEMS INSTALLED IN THE SLEEVES.
- PEA GRAVEL SHALL BE INSTALLED AT THE BASE OF ALL VALVE BOXES, WITH A CLEARANCE OF MIN. 2" BETWEEN VALVE AND TOP OF GRAVEL.

HYDRAULIC CALCULATIONS

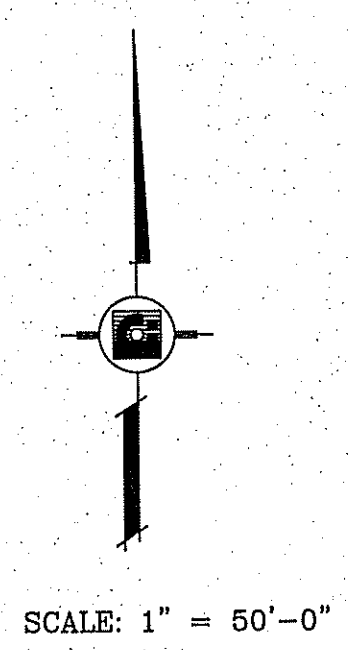
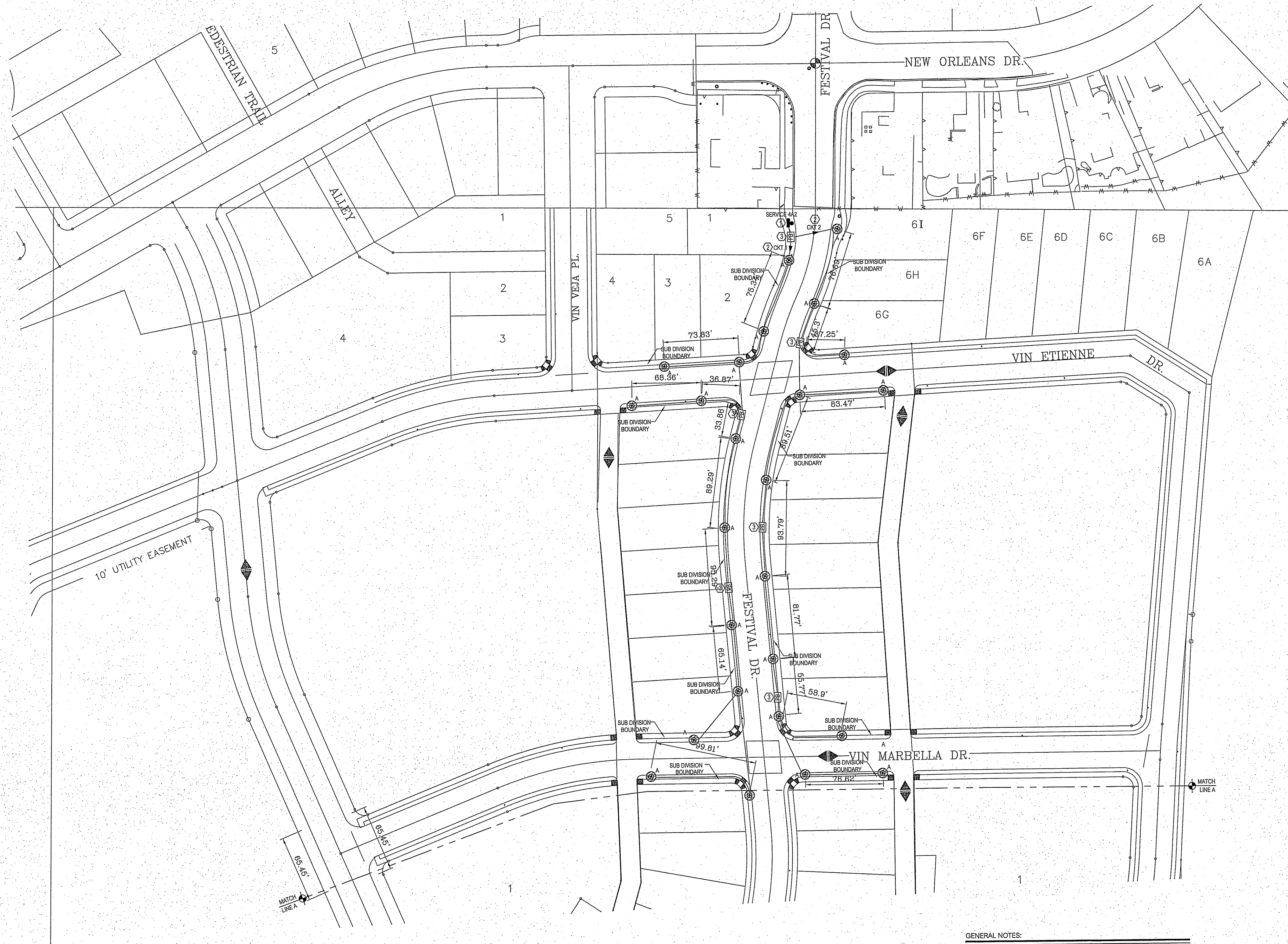
| TIMER # | VALVE # | VALVE #1 | VALVE #2 | VALVE #3 | VALVE #4 | VALVE #5 | VALVE #6 | VALVE #7 |
|---------|---------|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| TIMER 1 | TREES | 66 X 16 GPH = 117.6 GPM 60 MIN. | 46 X 16 GPH = 12.3 GPM 60 MIN. | 44 X 16 GPH = 11.7 GPM 60 MIN. | 4 X 16 GPH = 1.06 GPM 60 MIN. | 92 X 2 GPH = 3.06 GPM 60 MIN. | 15 X 16 GPH = 4 GPM 60 MIN. | 32 X 16 GPH = 8.53 GPM 60 MIN. |
| TIMER 2 | TREES | 46 X 16 GPH = 12.3 GPM 60 MIN. | 44 X 16 GPH = 11.7 GPM 60 MIN. | 4 X 16 GPH = 1.06 GPM 60 MIN. | 92 X 2 GPH = 3.06 GPM 60 MIN. | 15 X 16 GPH = 4 GPM 60 MIN. | 32 X 16 GPH = 8.53 GPM 60 MIN. | 268 X 2 GPH = 8.86 GPM 60 MIN. |
| TIMER 3 | TREES | 44 X 16 GPH = 11.7 GPM 60 MIN. | 4 X 16 GPH = 1.06 GPM 60 MIN. | 92 X 2 GPH = 3.06 GPM 60 MIN. | 15 X 16 GPH = 4 GPM 60 MIN. | 32 X 16 GPH = 8.53 GPM 60 MIN. | 268 X 2 GPH = 8.86 GPM 60 MIN. | 60 MIN. |
| TIMER 4 | TREES | 4 X 16 GPH = 1.06 GPM 60 MIN. | 92 X 2 GPH = 3.06 GPM 60 MIN. | 15 X 16 GPH = 4 GPM 60 MIN. | 32 X 16 GPH = 8.53 GPM 60 MIN. | 268 X 2 GPH = 8.86 GPM 60 MIN. | 60 MIN. | 60 MIN. |
| TIMER 5 | TREES | 32 X 16 GPH = 8.53 GPM 60 MIN. | 268 X 2 GPH = 8.86 GPM 60 MIN. | 60 MIN. | 60 MIN. | 60 MIN. | 60 MIN. | 60 MIN. |

IRRIGATION LEGEND

| SYMBOL | ITEM |
|--------|---|
| M | 1" METER |
| B | 1" FIBCO 825V RP BACKFLOW PREVENTER W/ ALUM. HOTBOX ENCLOSURE - MUST NOTE CLASS 2, ASSE #1060 FOR BACKFLOW |
| ⊙ | 1" BRASS PORT VALVE |
| ⊙ | 1" REMOTE CONTROL VALVE, RAINBIRD 100-PERS W/ AMAD Y FILTER AFTER THE VALVE |
| ⊙ | RAIN BIRD TBOS CONTROLLER, WITH POTTED LATCHING SOLENOID & TBOS FIELD TRANSMITTER (SEE DETAIL FOR INSTALLATION) |
| ⊙ | 1" REMOTE CONTROL VALVE, RAINBIRD 100-PERS W/ AMAD Y FILTER AFTER THE VALVE |
| --- | MAINLINE - SCHED. 40 PVC - 1.25" UNLESS OTHERWISE INDICATED |
| --- | 2" PVC SLEEVE UNLESS OTHERWISE INDICATED |
| --- | LATERAL LINE - SCHED. 40 PVC - 1" UNLESS OTHERWISE INDICATED |
| ▲ | RAINBIRD XER-BIRD 8 MULTI-OUTLET EMISSION DEVICE |
| ▲ | RAINBIRD XB-20 DRIP EMITTERS - 8 PER TREE |
| ▲ | RAINBIRD XB-10PC DRIP EMITTERS - 2 PER SHRUB & GROUND COVER |
| A/B | A) STATION NUMBER B) SIZE OF VALVE IN INCHES |
| C) | TOTAL GPM |



| | | | | | | |
|---|-----------------------|---|---|-----------|-----------|----|
| CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6080 SURETY DR. STE 100 EL PASO, TEXAS 79905 PHONE: (915) 592-0283 FAX: (915) 592-0286 | CONSULTANT'S SEAL | SCALE HORIZ: AS NOTED VERT: AS NOTED DATE: JULY 2015 DESIGN BY: C.H. INITIATED BY: C.H. CHECKED BY: J.B.A. JOB NO.: 113-35 | PROJECT NAME MONTECILLO UNIT FOUR BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACTS 4F2B, A.F. MILLER SURVEY 215, AND PORTION OF TRACT 1, JOHN BARKER SURVEY 10, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 29.211± ACRES | BENCHMARK | | |
| | | | | DATE | REVISIONS | BY |



GENERAL NOTE FOR THIS SHEET:
 CONDUIT SIZE AND EXACT ROUTE ARE NOT INDICATED ON THIS DRAWING DUE TO FIELD CONDITION INSTALLATIONS, ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING "AS BUILT" DRAWINGS INDICATING CONDUIT SIZE, CONDUIT ROUTE, CONDUCTOR SIZE AND PULLBOX EXACT LOCATIONS.

ELECTRICAL SITE PLAN KEYED NOTES

- ① LIGHTING CONTROL PANEL, REFER TO RISER DIAGRAM 1/E-5.
- ② WIRE CIRCUIT THRU CONTROL PANEL.
- ③ PROVIDE AND INSTALL PULLBOX. PULLBOXES MUST BE INSTALLED SO THERE IS NO RUN LONGER THAT 500' WITHOUT A PULLBOX. SEE DETAIL 1/E-4.

GENERAL NOTES:

- A. CONDUIT RUNS AND CIRCUIT DESIGNATION ARE SHOWN FOR CLARIFICATION AND GRAPHICAL REPRESENTATION. BY NO MEANS DOES IT SHOW HOW TO BE PHYSICALLY INSTALLED.
- B. DIMENSIONS SHOWN ARE APPROXIMATE AND A GEOGRAPHICAL REPRESENTATION AND ARE NOT BE SCALED FROM DRAWINGS. FIELD VERIFY ALL DIMENSIONS.
- C. CONTRACTOR SHALL BE RESPONSIBLE TO PHYSICALLY LABEL ALL CONDUIT AND WIRING USING WEATHERPROOF MATERIAL.

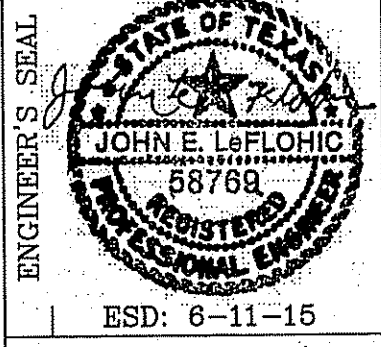
DO NOT SCALE FROM THIS DRAWINGS, FIELD VERIFY ALL FINAL DIMENSIONS.

ENGINEERING-PLUS
 130 Will Scarlett, El Paso, TX 79924 | TFR#: 11465
 Ph: 915-543-1642 | Fx: 915-757-6697

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

PROJECT NAME
 MONTECILLO UNIT FOUR "A"
 BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2,
 BEING A REPLAT OF LOTS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

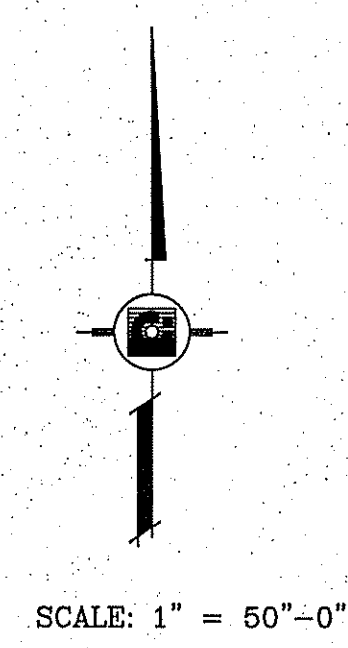
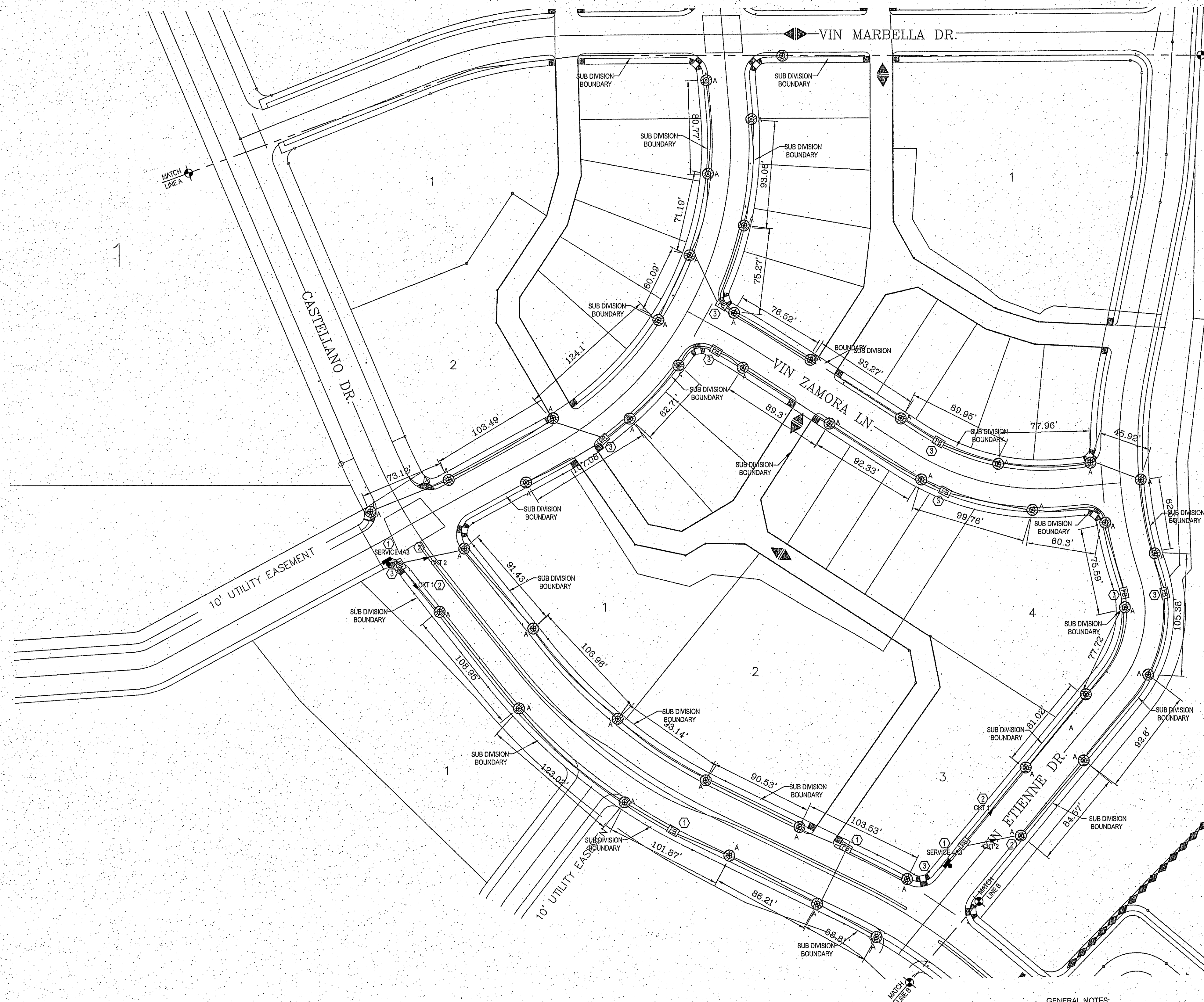
SCALE
 1" = 50'-0"
DATE: SEP. 2014
DESIGN BY: STAFF
INITIATED BY: STAFF
CHECKED BY: STAFF
JOB NO.: 119-35



CONDE INC.
 ENGINEERING / PLANNING
 SURVEYING / GPS
 SURETY DR. STE 100
 EL PASO, TEXAS 79905
 PHONE: (915) 592-0293
 FAX: (915) 592-0296



SHEET TITLE
 ELECTRICAL PLAN



GENERAL NOTE FOR THIS SHEET:
 CONDUIT SIZE AND EXACT ROUTE ARE NOT INDICATED ON THIS DRAWING DUE TO FIELD CONDITION INSTALLATIONS, ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING "AS BUILT" DRAWINGS INDICATING CONDUIT SIZE, CONDUIT ROUTE, CONDUCTOR SIZE AND PULLBOX EXACT LOCATIONS.

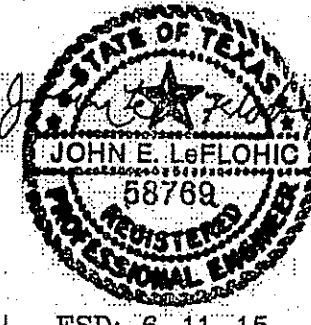
ELECTRICAL SITE PLAN KEYED NOTES

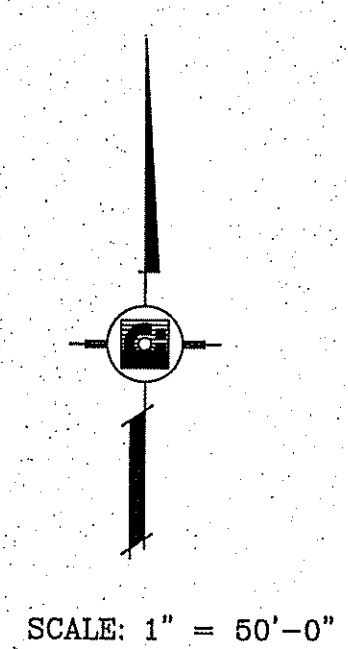
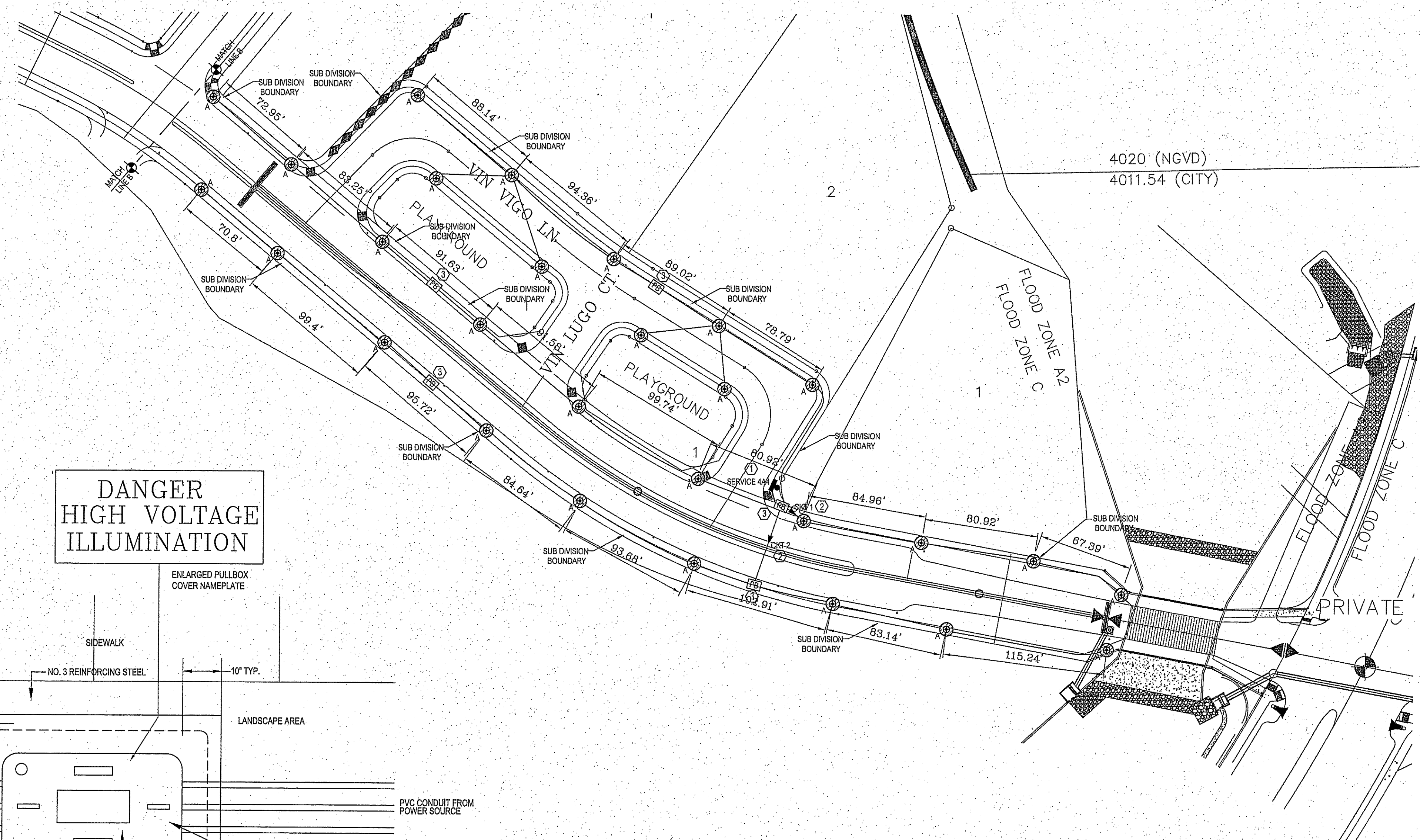
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- ② WIRE CIRCUIT THRU CONTROL PANEL.
- ③ PROVIDE AND INSTALL PULLBOX. PULLBOXES MUST BE INSTALLED SO THERE IS NO RUN LONGER THAT 500' WITHOUT A PULLBOX. SEE DETAIL 1/E-4.

- GENERAL NOTES:**
- A. CONDUIT RUNS AND CIRCUIT DESIGNATION ARE SHOWN FOR CLARIFICATION AND GRAPHICAL REPRESENTATION, BY NO MEANS DOES IT SHOW HOW TO BE PHYSICALLY INSTALLED.
 - B. DIMENSIONS SHOWN ARE APPROXIMATE AND A GEOGRAPHICAL REPRESENTATION AND ARE NOT BE SCALED FROM DRAWINGS. FIELD VERIFY ALL DIMENSIONS.
 - C. CONTRACTOR SHALL BE RESPONSIBLE TO PHYSICALLY LABEL ALL CONDUIT AND WIRING USING WEATHERPROOF MATERIAL.
 - D. COORDINATE LOCATION OF ALL STREET LIGHTS SO AS NOT TO CREATE VISUAL OBSTRUCTION/CONFLICTS WITH TREES (NOW AND AT MATURITY), EXISTING/PROPOSED UTILITIES AND EXISTING/PROPOSED SIGNAGE BEFORE DOING ANY WORK.

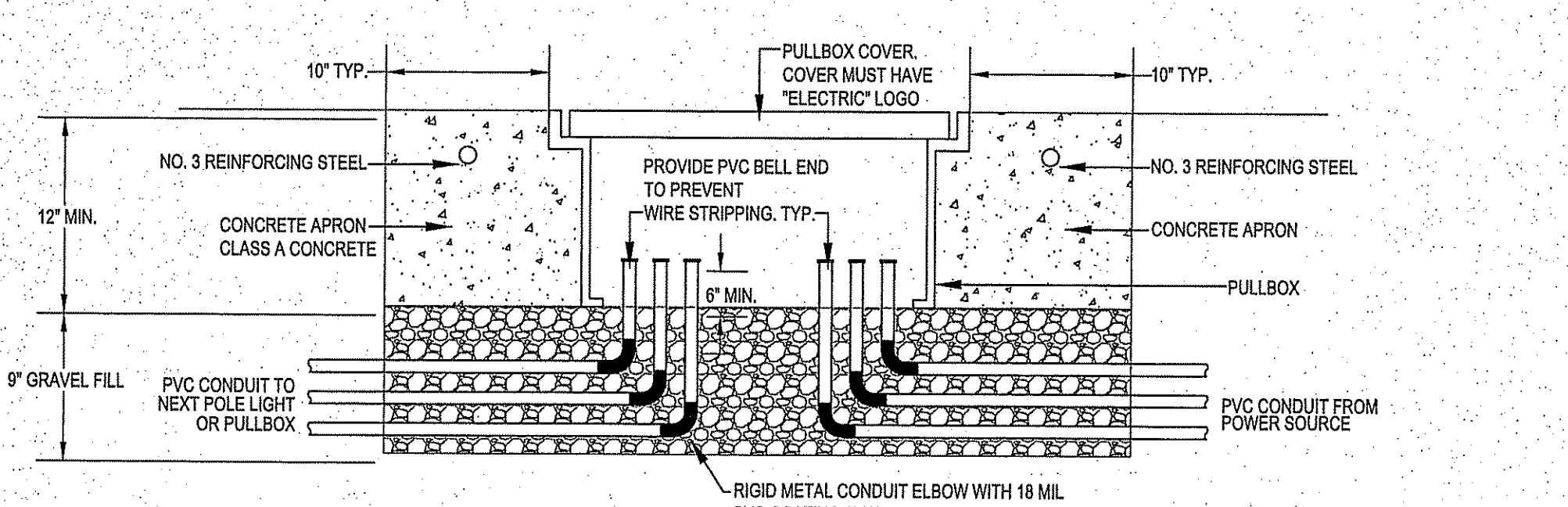
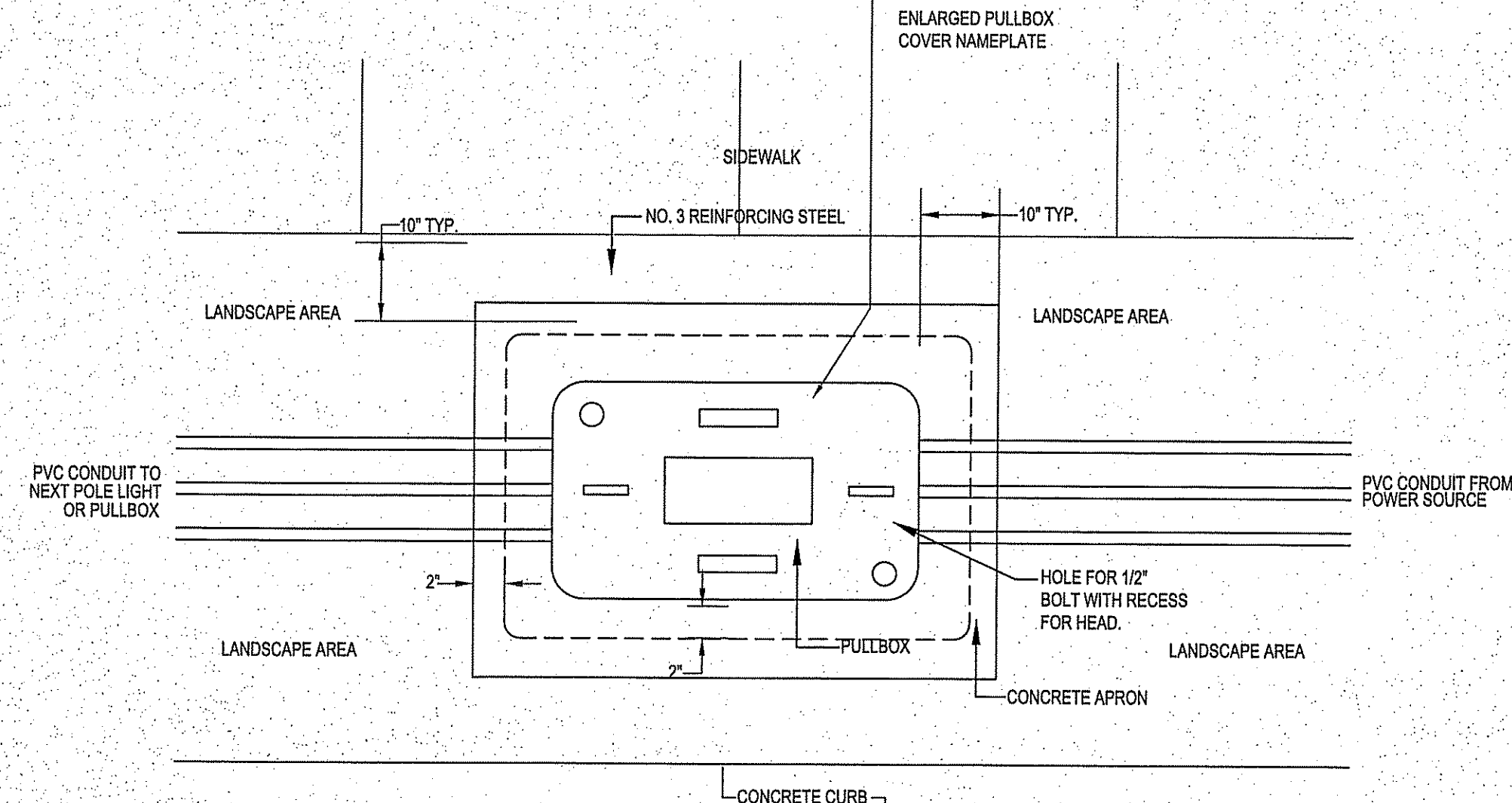
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ENGINEERING-PLUS
 130 Will Scarlett, El Paso, Tx 79924 | TFR#: 11465
 Ph: 915-543-1642 | Fx: 915-757-6697

| | | | | | | | |
|---|--|-----------|--|------|--|----|--|
| BENCHMARK | | REVISIONS | | DATE | | BY | |
| <p>PROJECT NAME MONTECILLO UNIT FOUR "A" BEING A REPEAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT BEING A PORTION OF TRACT 1, JOHN BARKER SURVEY, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 9.645± ACRES.</p> | | | | | | | |
| <p>SCALE 1" = 50'-0"</p> | | | | | | | |
| <p>ENGINEER'S SEAL </p> | | | | | | | |
| <p>CONDE INC. ENGINEERING / PLANNING SURVEYING / GPS 6060 SURETY DR. STE 100 EL PASO, TEXAS 79905 PHONE: (915) 562-0283 FAX: (915) 562-0286</p> | | | | | | | |
| <p>SHEET TITLE ELECTRICAL PLAN</p> | | | | | | | |
| <p>E-3</p> | | | | | | | |
| <p>SHT 3 OF 5</p> | | | | | | | |



**DANGER
HIGH VOLTAGE
ILLUMINATION**



PULLBOX DETAIL

1
E-4

- DETAIL GENERAL NOTES:
- A. PULLBOX AND CONCRETE APRON MUST BE INSTALLED AS PER TEXAS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
 - B. CONDUIT SHALL BE INSTALLED IN LANDSCAPING AREA BETWEEN CONCRETE CURBS AND SIDEWALK. CONDUIT SHALL NOT BE INSTALLED UNDER STREET. CONDUIT MUST BE BURIED BELOW IRRIGATION SYSTEM. COORDINATE WITH IRRIGATION INSTALLER.
 - C. PULLBOX MUST BE INSTALLED SO THERE IS NO RUN LARGER THAN 500FT.
 - D. PULLBOXES AND CONDUIT MUST BE INSTALLED IN IN CITY OF EL PASO STREET RIGHT OF WAY.
 - E. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO INCLUDE CONDUIT SIZE(S), WIRING, LOCATION AND PULL BOX LOCATIONS

ELECTRICAL SITE PLAN KEYED NOTES

- ① LIGHTING CONTROL PANEL, REFER TO RISER DIAGRAM 1/E-5.
- ② WIRE CIRCUIT THRU CONTROL PANEL.
- ③ PROVIDE AND INSTALL PULLBOX. PULLBOXES MUST BE INSTALLED SO THERE IS NO RUN LONGER THAT 500' WITHOUT A PULLBOX. SEE DETAIL 1/E-4.

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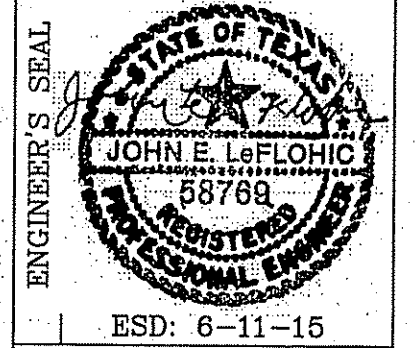
- GENERAL NOTES:
- A. CONDUIT RUNS AND CIRCUIT DESIGNATION ARE SHOWN FOR CLARIFICATION AND GRAPHICAL REPRESENTATION, BY NO MEANS DOES IT SHOW HOW TO BE PHYSICALLY INSTALLED.
 - B. DIMENSIONS SHOWN ARE APPROXIMATE AND A GEOGRAPHICAL REPRESENTATION AND ARE NOT BE SCALED FROM DRAWINGS. FIELD VERIFY ALL DIMENSIONS.
 - C. CONTRACTOR SHALL BE RESPONSIBLE TO PHYSICALLY LABEL ALL CONDUIT AND WIRING USING WEATHERPROOF MATERIAL.
 - D. COORDINATE LOCATION OF ALL STREET LIGHTS SO AS NOT TO CREATE VISUAL OBSTRUCTION/CONFLICTS WITH TREES (NOW AND AT MATURITY), EXISTING/PROPOSED UTILITIES AND EXISTING/PROPOSED SIGNAGE BEFORE DOING ANY WORK.



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

PROJECT NAME
MONTECILLO UNIT FOUR "A"
BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2, MONTECILLO UNIT THREE REPLAT "B" AND PORTION OF TRACT 1, JOHN BARKER SURVEY 10, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 9.645± ACRES

SCALE
1" = 50'-0"
DATE: SEP. 2014
DESIGN BY: STAFF
INITIATED BY: STAFF
CHECKED BY: STAFF
JOB NO.: 113-35



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



SHEET TITLE
ELECTRICAL PLAN

E-4

DO NOT SCALE FROM THIS DRAWINGS, FIELD VERIFY ALL FINAL DIMENSIONS.

ENGINEERING-PLUS
130 Will Scarlett, El Paso, TX 79924 | T: 915-757-1145
Ph: 915-543-1642 | Fx: 915-757-6697

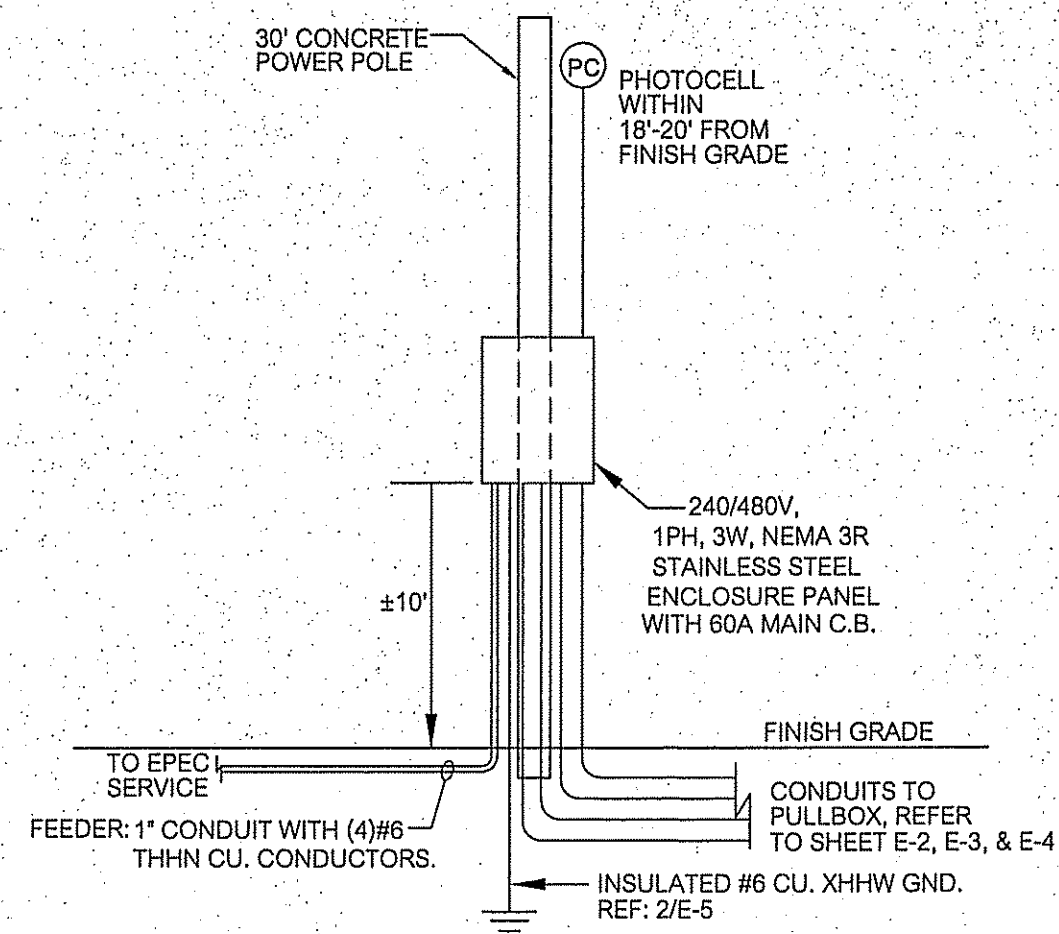
CONDUCTOR TABLE

| CIRCUIT | APRX LENGTH | AMPS | VOLTAGE DROP | HOT | NEUT | GND |
|---------|-------------|------|--------------|-----|------|-----|
| HP-1 | 3700 FEET | 7.1 | 2.94% | #6 | #6 | #10 |
| HP-2 | 3700 FEET | 7.1 | 2.94% | #6 | #6 | #10 |

- NOTES:
1. CALCULATIONS AS PER NEC 310-15.
 2. CALCULATIONS BASED ON 150W LED DRIVER.
 3. MAXIMUM VOLTAGE DROP 5%.
 4. SINGLE CARRIER CURRENT CONDUCTOR.
 5. CALCULATION WITH COPPER CONDUCTORS AT 75°C.
 6. PROVIDE CONDUIT AS PER NEC 2009.
 7. USE INSULATED GREEN WIRE.
 8. NEUTRAL CONDUCTOR SHALL NOT BE PHASED WITH ELECTRICAL TAPE IT SHALL BE GRAY IN COLOR.

GENERAL NOTES FOR VOLTAGE DROP TABLE

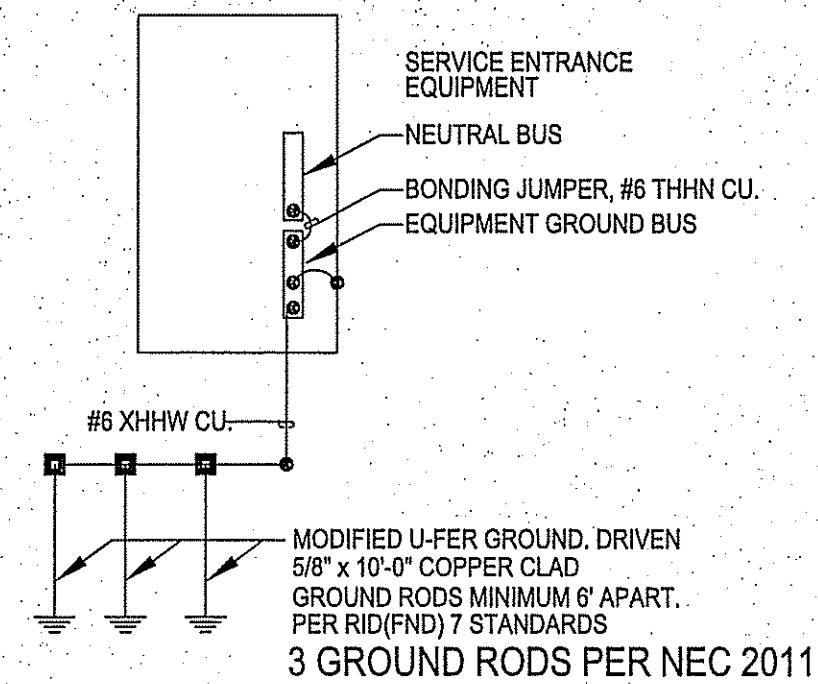
- REFER TO "NOTES" BELOW TABLE FOR ADDITIONAL INFORMATION.
- "APPROX LENGTH" IS THE LENGTH FROM THE CONTROL PANEL TO THE END OF CIRCUIT OR FARTHEST POLE LIGHT ON THAT CIRCUIT.
- "VOLTAGE DROP TABLE" REPRESENT MINIMUM CONDUCTOR SIZE AS ALLOWED BY NEC 2011 DUE TO ITS VOLTAGE DROP, UTILIZING CAD SOFTWARE, FIELD CONDITIONS WILL VARY DEPENDING ON INSTALLATION AND ROUTE METHODS.
- EXACT LENGTH WILL DEPEND ON FIELD INSTALLATION AND ROUTE.
- CONTRACTOR SHALL PROVIDE "AS BUILTS" INDICATING CONDUIT ROUTE AND EXACT CONDUCTOR LENGTHS.
- ELECTRICAL CONTRACTOR SHALL UTILIZED CONDUIT SIZE AS PER NEC 2011 APPENDIX C.



1 E-5 ELECTRICAL RISER DIAGRAM NTS

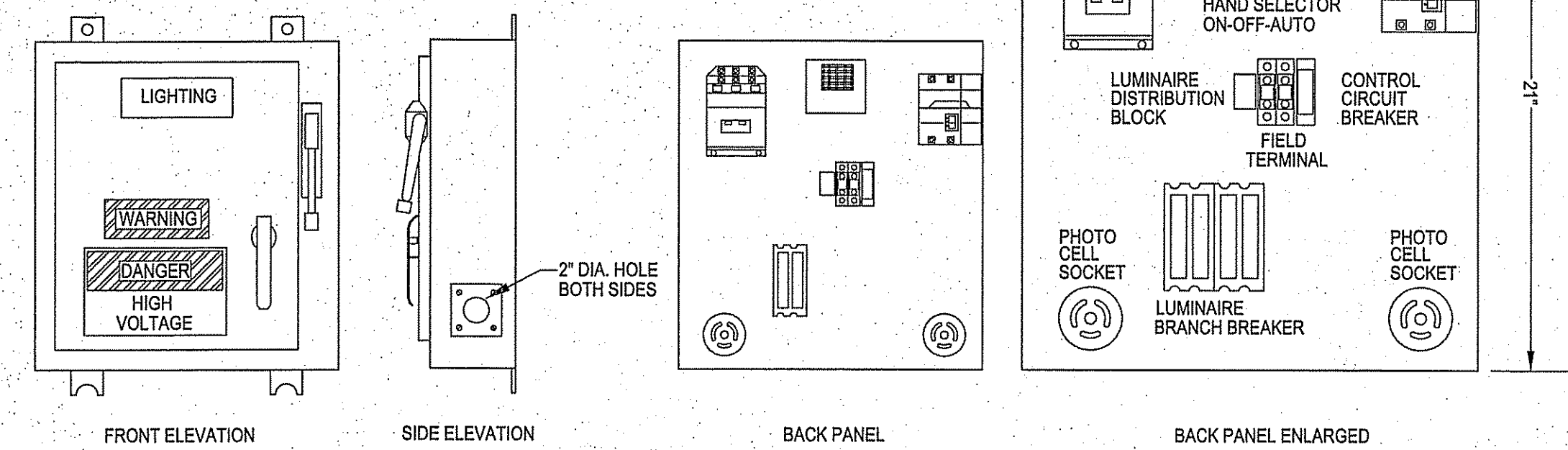
EL PASO ELECTRIC CONTACT PERSON: Damian Lamas, Office: 915-543-5935
 INDUSTRIAL CONTROL PANEL: TECHLINE INC. PART # TYA (240/480)060 (NS)SS(E)
 ENCLOSURE PANEL: ASSOCIATED STARTERS & CONTROLS LP: 210-790-1334

ALL GROUNDING CONDUCTORS SHALL BE THHN INSULATED CONDUCTORS AS INDICATED.



2 E-5 GROUNDING SCHEMATIC NTS

ALL GROUNDING CONDUCTORS SHALL BE THHN INSULATED CONDUCTORS AS INDICATED.



5 E-5 LIGHTING CONTROL BOX NTS

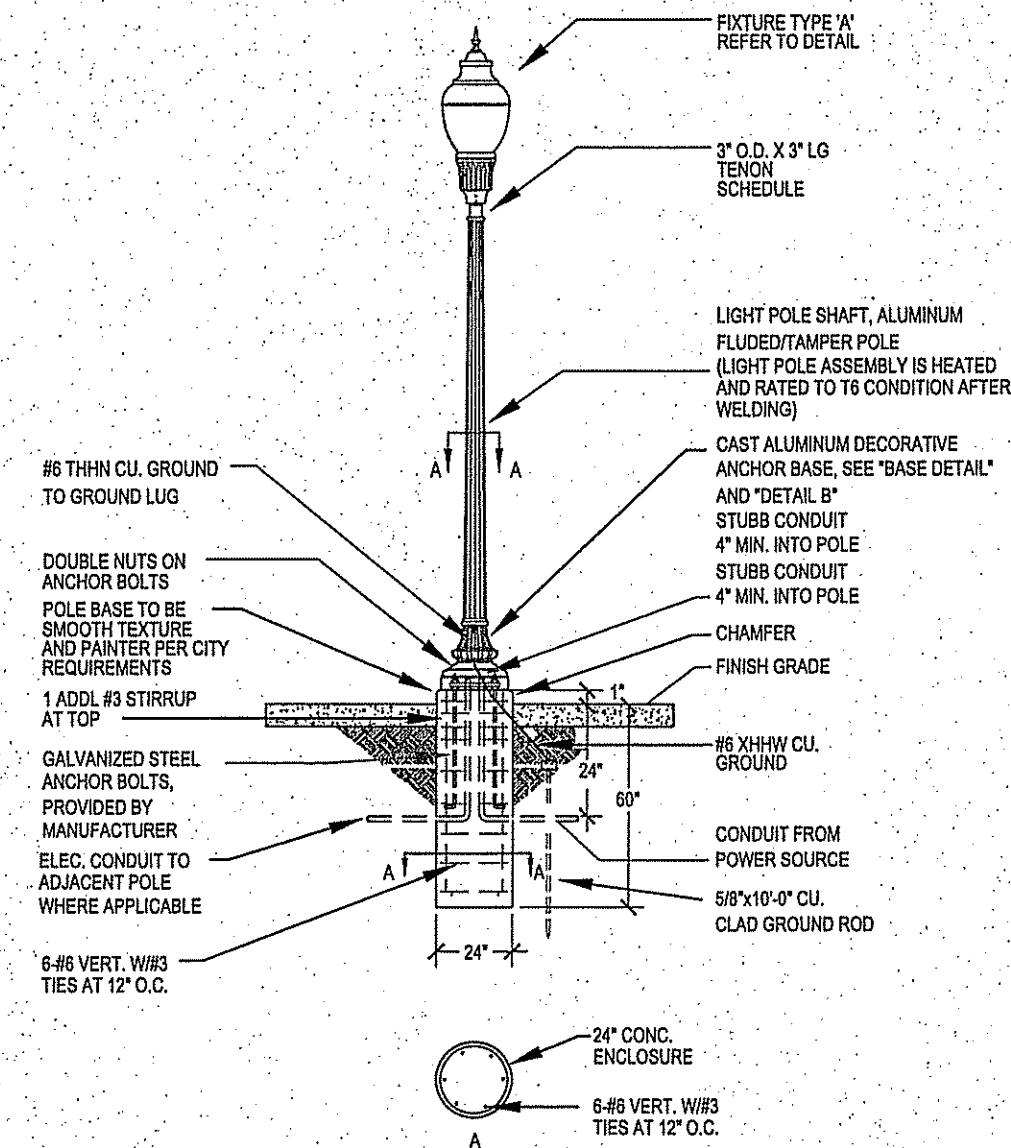
GENERAL NOTES:

- EPDOT STANDARD 2003, ED(4)-03 AND ED(5)-03, EPDOT TYPE A, NEMA 3R STAINLESS STEEL ENCLOSURE PANEL LAYOUT. DRAWING #ASC-ASS80E-ES-S1, FILE NAME ALA02007 FROM ASSOCIATED STARTER & CONTROL LP, (210) 798-1334.
- LABELS MUST BE PLACED ON THE INSIDE OF DOOR OF ENCLOSURE.
 - LISTED - INDUSTRIAL CONTROL PANEL ENCLOSURE
 - LISTED - ENCLOSURE INDUSTRIAL CONTROL PANEL
 - LISTED - INDUSTRIAL CONTROL PANEL FOR SERVICE EQUIPMENT USE
 - MANUFACTURER NAME WITH REFERENCE NO.
 - DRAWING NUMBER AS RECORDED TO THE UL LABEL NUMBER USED.
- INDUSTRIAL CONTROL PANEL - SUBJECT 508A
 UL UNDERWRITER LABORATORIES, INC.
 ASSOCIATED STARTERS & CONTROL, L.P. FILE NUMBER E247288
- AL INTERIOR COMPONENTS ARE TO BE LABELED.
- PROVIDE A COMPLETE SYSTEM TO JOB ACCORDING TO TX DOT SPECIFICATION AND INFORMATION PROVIDED ON THESE DRAWINGS.
- ENCLOSURE TYPE - NEMA 3R, EXTERIOR USE.
- MATERIAL: STAINLESS STEEL 304



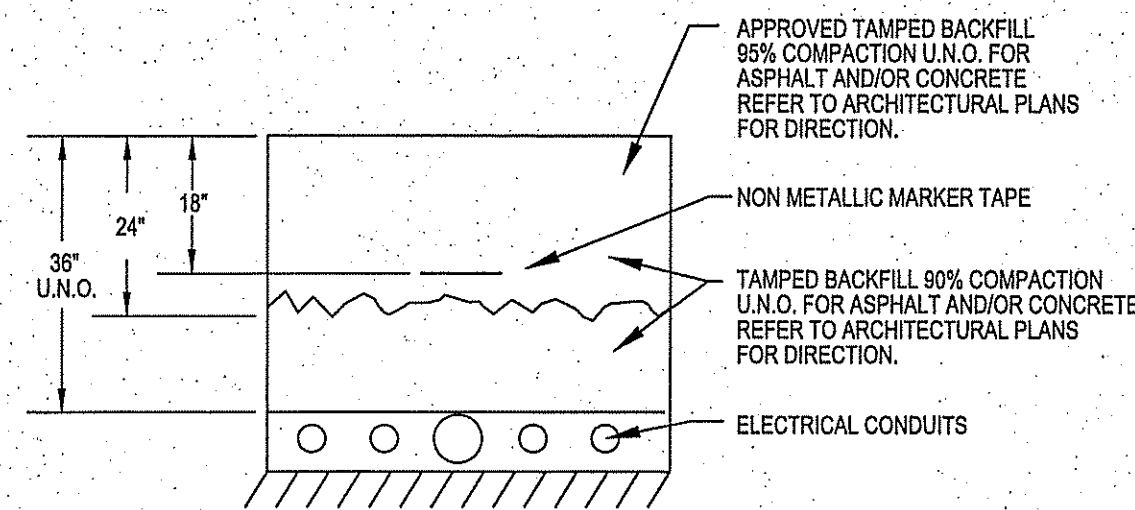
POLE BASE DETAIL GENERAL NOTES

- CONTRACTOR TO COORDINATE AND VERIFY WITH THE POLE LIGHTS VENDOR FOR FINAL INSTALLATION DETAIL AND PERFORM AS PER MANUFACTURE TO MEET WIND RATING AS SET OUT IN FIXTURE TYPE 'N' IN FIXTURE SCHEDULE.
- CONCRETE SHALL BE BASE 3000 PSI MIN.
- LIGHT POLE MUST BE FOUNDED IN NATURAL SOIL OR STRUCTURE FILL AND MUST BE APPROVED BY GEOTECHNICAL ENGINEER, IF ACTUAL SOIL DOES NOT MEET THIS REQUIREMENT, CONTACT ENGINEER OF RECORD.
- REINFORCEMENT, SOIL, AND ANCHOR RODS MUST BE INSPECTED PER CITY OF EL PASO REQUIREMENTS PRIOR TO POURING CONCRETE.
- NOT USED.
- PROVIDE 10A, 600V BREAKAWAY FUSES ON POLE.



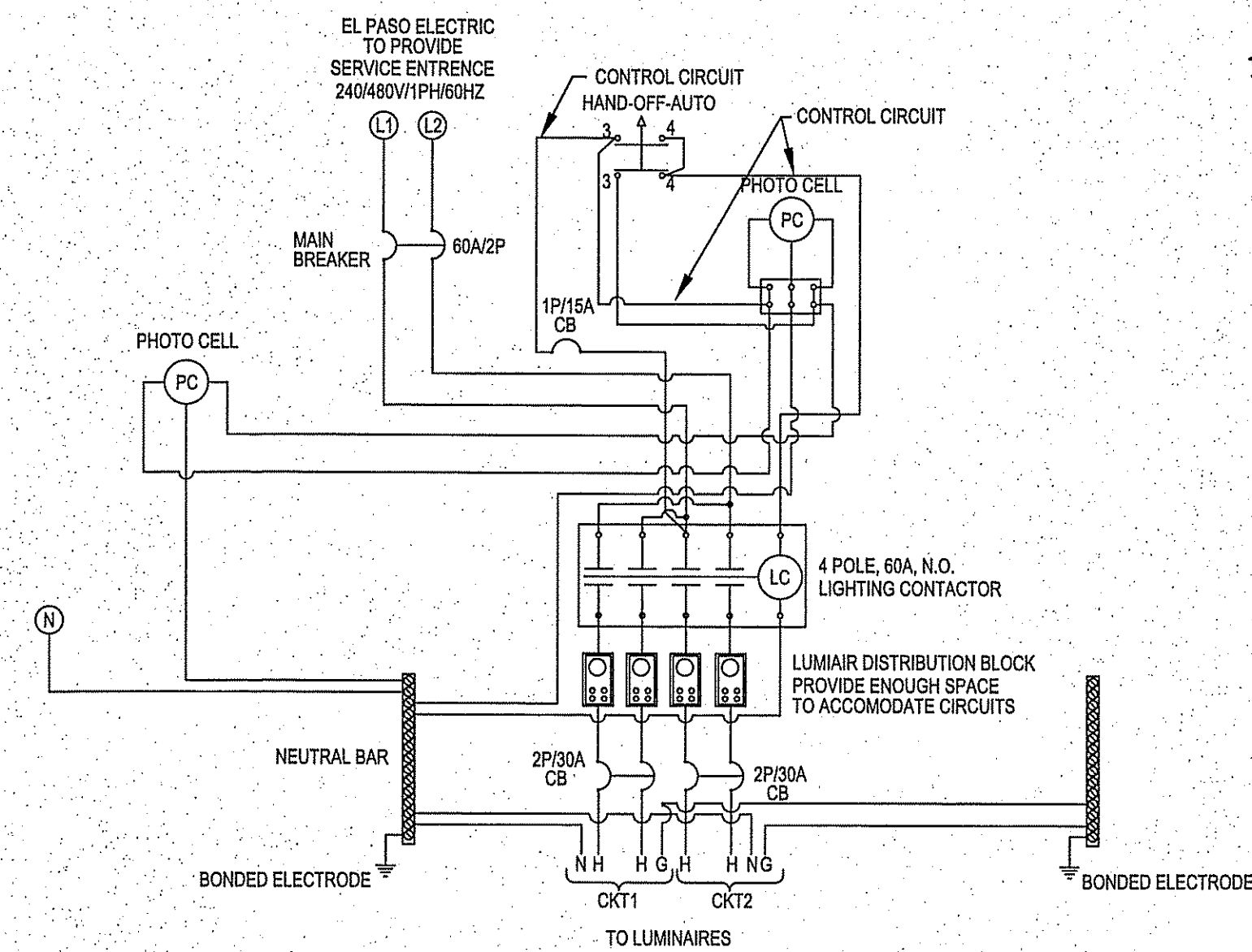
3 E-2 TYPICAL LIGHT POLE BASE DETAIL NTS

REFER TO NOTES BELOW FOR ADDITIONAL INFORMATION



7 E-5 TRENCH DETAIL NTS

DETAIL GENERAL NOTES:
 A. PULLBOXES AND CONDUITS MUST BE INSTALLED IN RIGHT OF WAY.



6 E-5 LIGHTING CONTROL WIRING SCHEMATIC NTS

FOR INFORMATION ONLY: PROVIDE 2 POLE, 30A C.B. TO EACH LUMINAIRE CIRCUIT, THE VOLTAGE PER CIRCUIT BREAKER IS 480V.

GENERAL NOTES:

- BONDED NEUTRAL. REMOVE BONDING MEANS FOR TEST PURPOSES ONLY SERVICE DISCONNECT CIRCUIT BREAKERS 150 AMPS OR LESS, SQUARE TYPE KAL, CIRCUIT BREAKERS 150 AMPS OR LESS; CUTLER HAMMER GHC, ALLEN BRADLEY TYPE 1492-MCCA.
- SHORT CIRCUIT RATING: RMS SYMMETRICAL AMPS 14,000 AT 240/480 VAC. THE SHORT CIRCUIT RATING IS LINED TO THE LOWEST INTERRUPTING CAPACITY OF ANY DEVICE INSTALLED THEREIN REPLACEMENT BREAKERS MUST BE SAME TYPE AND RATING. FIELD INSTALLED CONDUCTORS SHALL BE SIZED BASED ON 75C CAPACITY.
- "SUITABLE FOR SERVICE EQUIPMENT ONLY"
- USE COPPER WIRE ONLY.
- COMPONENTS TORQUE VALUES MUST BE AS PER DRAWINGS STANDARDS LABELED ON BACK PANEL.
- WIRE SIZE MUST BE ON DRAWINGS SIZED PER UL TABLE 29.1 SECTION 508A.

FIXTURE SCHEDULE

| TYPE | MANUFACTURE/MODEL NO. | SUPPLY | LAMP | | MOUNTING | NOTE |
|------|---|--------|------|---------|----------|------|
| | | | QTY | TYPE | | |
| A | NILAND CR-GLASS-CN-BAND-ROTO-LED-TLPC N-17-TF35-14-4000-150-480V-TYPE III-EPG POLE: NILAND N-17-TF35-14 - CAST AL-EXT-EPG | 480V | -- | LED 50K | 14' POLE | [1] |

NOTES:

[1] EL PASO CITY TO APPROVE LIGHTING FIXTURE BEFORE ORDERING FIXTURE.

GENERAL NOTES:

- ALL FINAL COLOR SELECTIONS SHALL BE SELECTED BY EL PASO CITY.
- LIGHTING FIXTURES WERE SELECTED BY PERFORMANCE AND APPEARANCE, PRIOR APPROVAL WILL BE REQUIRED 2 WEEKS BEFORE BID DATE, PROVIDE SHOP DRAWINGS, ENERGY REPORT, LIGHTING FACTS AND PHOTOMETRIC ANALYSIS.
- PROVIDE 10A BREAK-WAY FUSES AT EACH POLE.
- FIXTURE MUST BE CITY OF EL PASO DARK SKY ORDINANCE COMPLIANT.
- FIXTURE TO HAVE GOLD DECORATE TRIM.

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

PROJECT NAME
MONTECILLO UNIT FOUR 'A'
 BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2,
 MONTECILLO UNIT THREE REPLAT 'B' AND PORTION OF TRACT 1,
 JOHN BARKER SURVEY 10,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 6.645± ACRES

SCALE
 1" = 50'-0"

DATE: SEP. 2014
DESIGN BY: STAFF
INITIATED BY: STAFF
CHECKED BY: STAFF
JOB NO.: 119-95

ENGINEER'S SEAL
 JOHN E. FLORENCE
 58789
 ESD: 6-11-15

CONDE INC.
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 EL PASO, TEXAS 79905
 PHONE: (915) 592-0255
 FAX: (915) 592-0266

CONDE INC.
 REGISTRATION No. P-2321

SHEET TITLE
 ELECTRICAL
 DETAILS

E-5

ENGINEERING-PLUS
 130 Will Scarlett, El Paso, TX 79924 | TFR#: 11465
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SCALE: 1" = 50'-0"



| SYMBOL LEGEND | |
|---------------|--|
| SYMBOL | DESCRIPTION |
| A ⊕ | LIGHT POLE MOUNTED FIXTURE WITH LIGHT DISTRIBUTION DESIGNATION |
| *.X | FOOTCANDLE READING |

DO NOT SCALE FROM THIS DRAWINGS, FIELD VERIFY ALL FINAL DIMENSIONS.

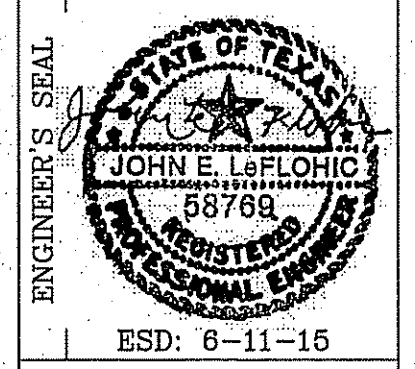


ST-1

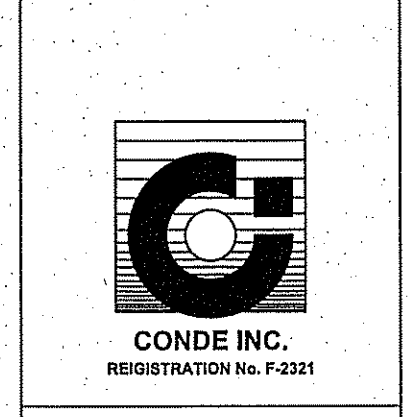
| BENCHMARK | |
|-----------|-----------|
| DATE | REVISIONS |
| BY | |
| | |
| | |

PROJECT NAME
MONTECILLO UNIT FOUR "A"
 BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2,
 MONTECILLO UNIT THREE REPLAT "B", AND PORTION OF TRACT 1,
 JOHN BARKER SURVEY 10,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 9.645± ACRES

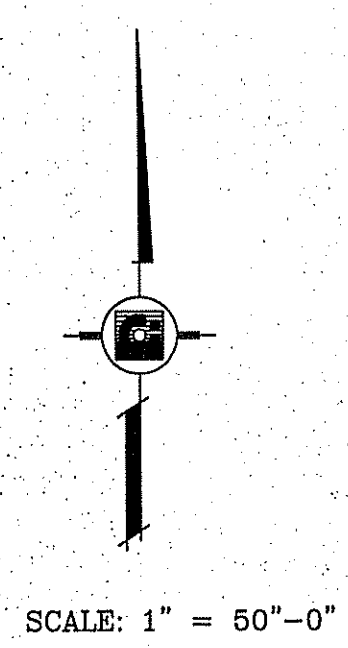
SCALE
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DATE: SEP. 2014
DESIGN BY: STAFF
INITIATED BY: STAFF
CHECKED BY: STAFF
JOB NO.: 113-35



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 EL PASO, TEXAS 79905
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SHEET TITLE
 PARTIAL
 ILLUMINATION
 STUDY



| SYMBOL LEGEND | |
|---------------|--|
| SYMBOL | DESCRIPTION |
| A ⊕ | LIGHT POLE MOUNTED FIXTURE WITH LIGHT DISTRIBUTION DESIGNATION |
| X.X | FOOTCANDLE READING |



BENCHMARK

PROJECT NAME

SCALE

ENGINEER'S SEAL

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ENGINEERING / PLANNING
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EL PASO, TEXAS 79905
PHONE: (915) 592-0283
FAX: (915) 592-0286



SHEET TITLE
PARTIAL
ILLUMINATION
STUDY

DO NOT SCALE FROM THIS DRAWINGS, FIELD VERIFY ALL FINAL DIMENSIONS.

ENGINEERING-PLUS
130 Will Scarlett, El Paso, TX 79924 | TFR#: 11465
Ph: 915-543-1642 | Fx: 915-757-6697

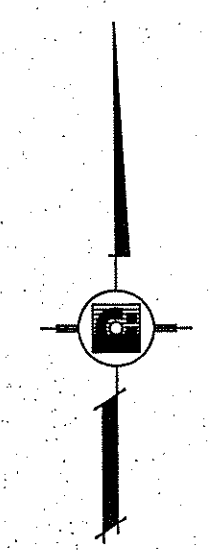
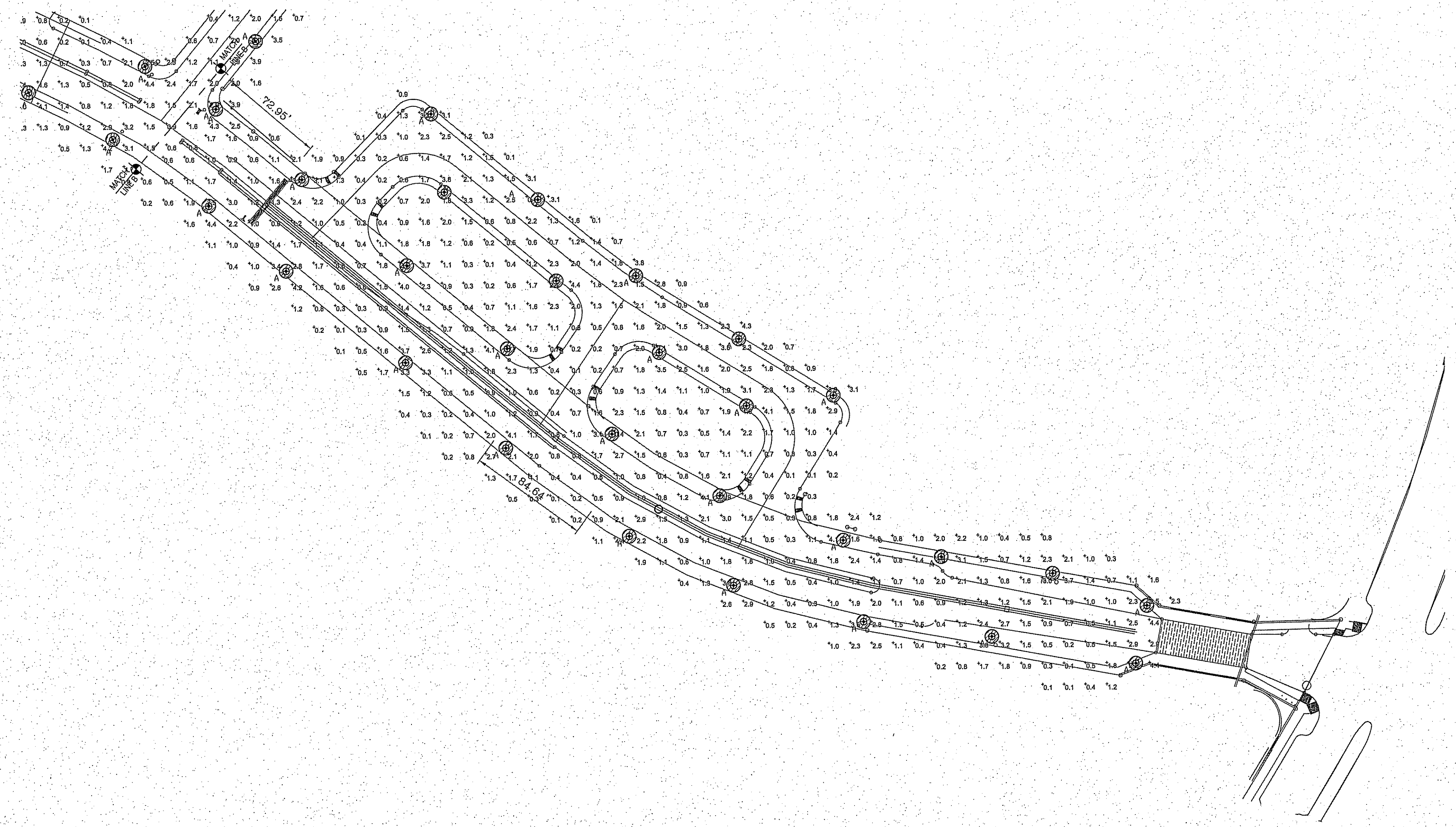
ST-2

MONTECILLO UNIT FOUR "A"

MONTECILLO UNIT FOUR "A"
BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2,
MONTECILLO UNIT THREE REPLAT "B" AND PORTION OF TRACT 1,
JOHN BARKER SURVEY 10,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 9.645± ACRES

DATE: SEP. 2014
DESIGN BY: STAFF
INITIATED BY: STAFF
CHECKED BY: STAFF
JOB NO.: 118-95

ESD: 6-11-15



SCALE: 1" = 50'-0"

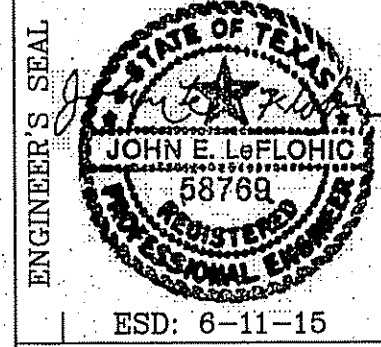
| SYMBOL LEGEND | |
|---------------|--|
| SYMBOL | DESCRIPTION |
| A ⊕ | LIGHT POLE MOUNTED FIXTURE WITH LIGHT DISTRIBUTION DESIGNATION |
| X.X | FOOTCANDLE READING |



| BENCHMARK | |
|-----------|-----------|
| DATE | REVISIONS |
| | |
| | |
| | |
| | |

PROJECT NAME
MONTECILLO UNIT FOUR "A"
 BEING A REPLAT OF A PORTION OF LOTS 3 AND 6, BLOCK 2,
 MONTECILLO UNIT "THREE REPLAT "B", AND PORTION OF TRACT 1,
 JOHN BARKER SURVEY 10,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 6.6431 ACRES

SCALE
 1" = 50'-0"
DATE: SEP. 2014
DESIGN BY: STAFF
INITIATED BY: STAFF
CHECKED BY: STAFF
JOB NO.: 1113-95



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SHEET TITLE
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 STUDY

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ST-3