MESQUITE TRAILS UNIT TWO

SUBDIVISION IMPROVEMENTS

BEING A PORTION OF SECTION No. 16, BLOCK 79, TOWNSHIP 3, TEXAS AND PACIFIC RAILROAD COMPANY SURVEYS EL PASO COUNTY, TEXAS CONTAINING 21.307± ACRES

DEVELOPMENT SERVICES DEPARTMENT

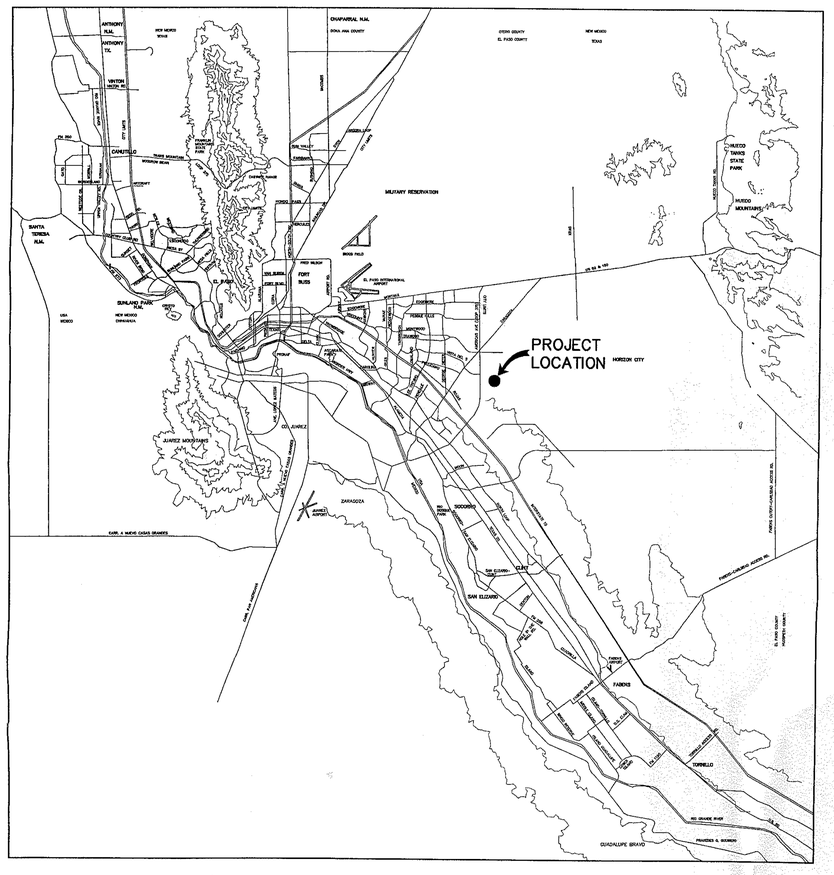
SITE PLAN REVIEW

Reviewed For Conformance To Conditions Related To:

- Demolition Only
- Grading & Drainage
- Wheelchair Ramps
- On Site Parking Layout
- Sidewalks
- Driveways
- Retaining Rock Walls
- On-Site Ponding of Storm Waters

Contractor Must Call 24 Hours Prior To Construction For Inspection

BY _____ DATE 8/17/2007



VICINITY MAP

APPROXIMATE SCALE: 1" = 2 MILES

SHEET NUMBER	SHEET TITLE
CVR,1	COVER SHEET, GENERAL INFORMATION
2	PLAT
3	GRADING PLAN
4	DRAINAGE PLAN
5,6	GRADING SECTIONS
7-12	STREET PLAN & PROFILES
13,14	STORM DRAIN PLAN & PROFILES
15	HIKE & BIKE PLAN
16	HIKE & BIKE PLAN DETAILS
17-19	STANDARD DETAILS
20,21	DRAINAGE DETAILS
22	ILLUMINATION PLAN
23	POND DESIGN PLAN
24-26	STORM WATER POLLUTION PREVENTION PLANS

STATE OF TEXAS
JORGE L. AZCARATE
85075
LICENSED PROFESSIONAL ENGINEER

6/8/07

JORGE L. AZCARATE, P.E. PROJECT MANAGER

cea group

engineers • architects • planners

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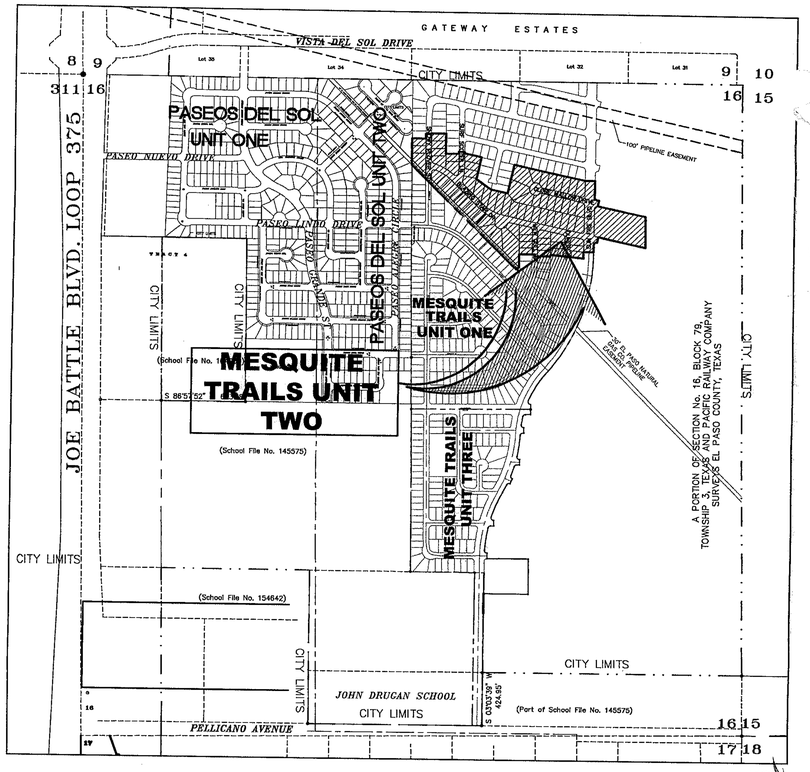

LOCATION MAP

APPROXIMATE SCALE: 1" = 600'

STATE OF TEXAS
JORGE L. AZCARATE
85075
LICENSED PROFESSIONAL ENGINEER

8/16/07

PRINCIPAL CONTACTS:

	NAME	ADDRESS	CITY & ZIP	PHONE	FAX
OWNER:	CAREFREE LAND LTD.	1560 GOODYEAR LTD.	EL PASO, 79936	(915) 590-8511	(915) 591-3813
ENGINEER:	CEA ENGINEERING GROUP	1204 MONTANA AVE.	EL PASO, 79902	(915) 544-5232	(915) 544-5233
SURVEYOR:	BARRAGAN & ASSOCIATES	1450 PENDALE ROAD SIUTE B	EL PASO, 79936	(915) 591-5709	(915) 591-5706

MESQUITE TRAILS UNIT TWO

COVER SHEET

DATE PREPARED	DRAWN BY:	DESIGN BY:	CHECKED BY:	APPROVED BY:
JUNE 2007	A.B.	F.Z.	J.L.A.	J.L.A.
REVISION NUMBER	SHEET NAME OR NUMBER	DESCRIPTION OF REVISION	DATE OF REVISION	REVISION APPROVED BY:

103058

JUNE 20C

GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF WITH THE PROJECT SITE PRIOR TO SUBMITTING BIDS.
2. CONTRACTOR SHALL WATER CONSTRUCTION AREA A MINIMUM OF TWICE A DAY TO KEEP DUST TO A MINIMUM – ONCE IN THE MORNING AND BEFORE QUITTING TIME. THIS SHALL ALSO BE DONE DURING WEEKENDS AND HOLIDAYS.
3. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK.
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE AND PERFORM HIS WORK SO AS TO ASSURE PROPER PASSAGE OF STORM RUNOFF DURING THE COURSE OF HIS OPERATIONS. ALL LABOR, TOOLS, EQUIPMENT, AND SUPERVISION REQUIRED TO ASSURE SUCH PROPER PASSAGE OF RUNOFF WATER AND ANY REMOVAL OR HANDLING OF WATER IN ORDER TO MAINTAIN DRY CONDITIONS SHALL BE CONSIDERED INCIDENTAL TO THE WORK, AND SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE USER, ALL UTILITIES, AND ALL OTHER AGENCIES WITH JURISDICTION OVER THE PROJECT.
6. ALL EXISTING PAVEMENT, ADJACENT UTILITIES, STRUCTURES, ETC., DISTURBED AS A RESULT OF THE NEW CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
7. THE OWNER WILL FURNISH HORIZONTAL AND VERTICAL CONTROL REFERENCED POINTS ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES FOUND SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER, OTHERWISE THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THEIR CORRECTNESS.
8. SEE REFERENCED BENCHMARK ON TITLE BLOCK FOR DATUM ELEVATIONS.
9. VIBRATORY ROLLERS WILL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT, UNLESS APPROVED IN WRITING BY THE ENGINEER.
10. ALL WORK REQUIRED BY THESE PLANS SHALL BE CONDUCTED IN CONFORMANCE WITH CURRENT SAFETY CODES AND STANDARDS WITH JURISDICTION OVER THE PROJECT.
11. THE LOCATION OF THE INLETS SHALL BE AT THE FIELD LOW POINT AND APPROVED BY THE ENGINEER.

LEGEND

- SUBDIVISION BOUNDARY
- ROW LINE
- CURB LINE
- PROPERTY LINE
- STREET CENTERLINE
- EASEMENT LINE
- MATCH LINE
- STORM SEWER LINE
- HIGH WATER MARK
- CURB AND GUTTER DROP INLET
- STORM SEWER MANHOLE
- 4000 — FINISHED GROUND CONTOUR ELEVATION (INDEX)
- FINISHED GROUND CONTOUR ELEVATION (INTERMEDIATE)
- 4000 — EXISTING GROUND CONTOUR ELEVATION (INDEX)
- EXISTING GROUND CONTOUR ELEVATION (INTERMEDIATE)
- NEW RETAINING ROCKWALL (2'–3' IN HEIGHT)
- NEW RETAINING ROCKWALL (3'–9' IN HEIGHT)
- X / X — STANDARD DETAIL/SECTION NUMBER; SHEET NUMBER WHERE STANDARD/SECTION DETAIL IS LOCATED
- 4000.00 — FINISHED SPOT ELEVATION
- FG. 56.00 — LOT FINISHED GROUND ELEVATION
- TC 4000.00 — TOP OF CURB ELEVATION
- TP 4000.00 — TOP OF PAVEMENT ELEVATION
- 1 (2) — SUBDIVISION LOT AND BLOCK NUMBER
- DRAINAGE FLOW
- HIGH POINT
- LOW POINT
- EXISTING HIGH POINT
- EXISTING LOW POINT
- HEADWALL WITH WINGWALLS
- DA–4 — DRAINAGE AREA
- 3:1 SLOPE — HORIZONTAL: VERTICAL SLOPE RATIO
- WHEELCHAIR RAMP

GRADING SPECIFICATIONS

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

ABBREVIATIONS

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

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY	(915) 543–5720
EL PASO ENERGY CORPORATION	(915) 496–5244
EL PASO WATER UTILITIES	(915) 594–5527
PASEO DEL ESTE MUD NO. 1	(915) 858–1065
MCI SURVEILLANCE	(800) MCI–WORK
PARAGON CABLE	(915) 772–1123
TEXAS GAS CO.	(915) 544–6300
SOUTHWESTERN BELL TELEPHONE	(800) 828–5127
AT&T	(800) 852–3786
U.S. SPRINT TELECOMM	(800) 521–0579

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

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SUN FIRE BOULEVARD PLAN & PROFILE FOM STA. 8+01.76 TO STA. 13+86.10 DUNLIN PLACE PLAN & PROFILE FROM STA. 0+00.00 TO STA. 1+69.72	12
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103058

REFERENCES – BENCHMARKS
BENCHMARK IS SITY MONUMENT AT THE INTERSECTION OF PASEO DEL ESTE AND LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

cea group
engineers • architects • planners
1204 Montana Ave., El Paso, Texas 79902
Office 915.544.5232 Fax 915.544.5233
www.ceagroup.net

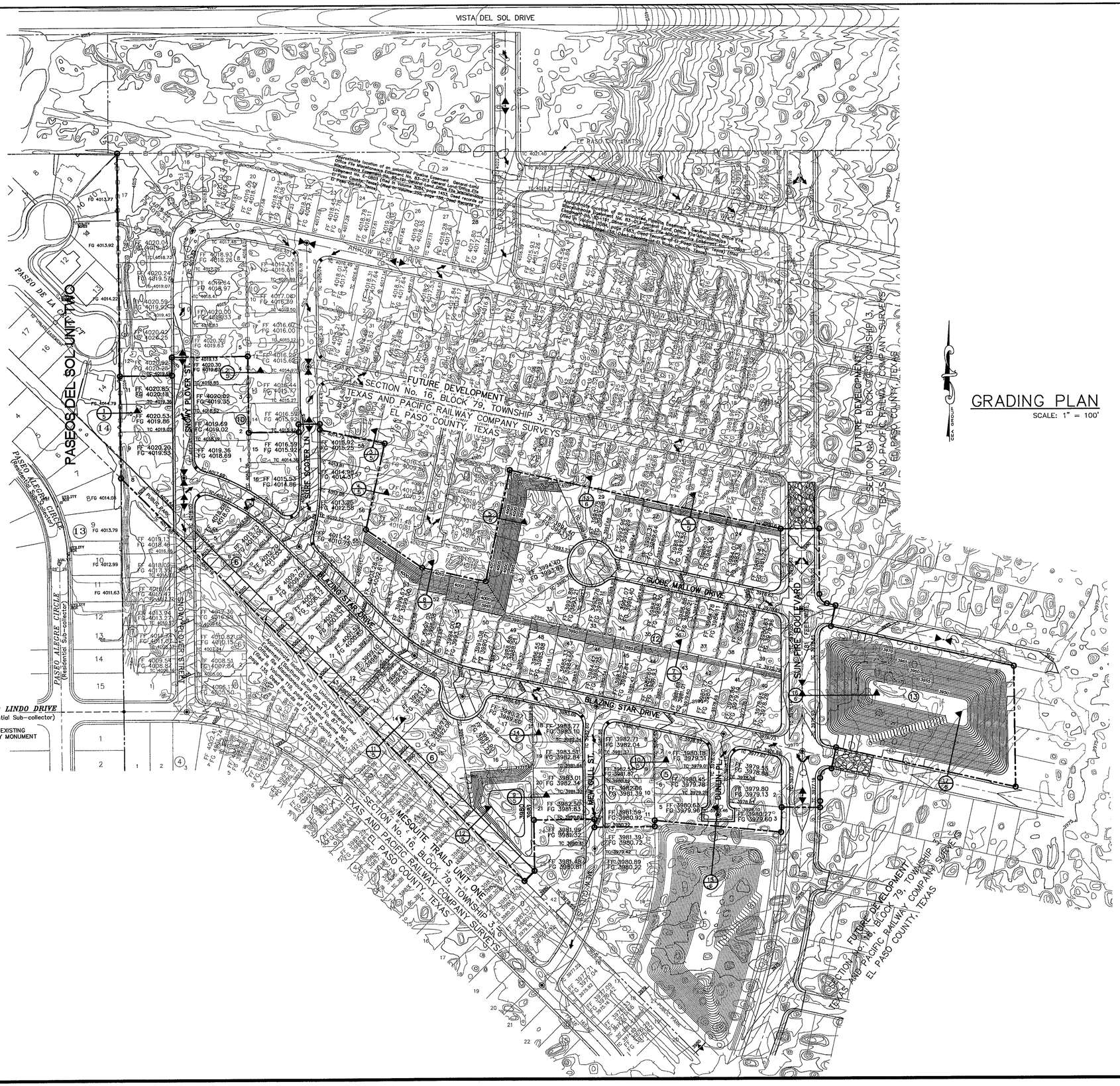
ENGINEER'S SEAL
JORGE L. AZCARATE
86075
LICENSED
PROFESSIONAL ENGINEER
6/6/07

SCALE
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2007
DESIGN BY: E.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2250–008

PROJECT TITLE
MESQUITE TRAILS UNIT TWO
SUBDIVISION IMPROVEMENTS

SHEET TITLE
GENERAL INFORMATION

SHEET NO.
1
OF 26



GRADING PLAN

SCALE: 1" = 100'

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
(AFTER HOURS)	(915) 240-3220

WARNING !
BEFORE YOU DIG

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

NOTES:

1. RETAINING WALLS SHALL BE CONSTRUCTED FOR VERTICAL GRADES GREATER THAN 2-FEET.
2. SLOPED AREAS SHALL BE MAINTAINED BY THE PROPERTY OWNERS.
3. ALL RETAINING WALLS NOT SPECIFIED TO BE CONSTRUCTED BY DEVELOPER, SHALL BE BUILT BY BUILDER.
4. RETAINING WALL DESIGN REQUIRED AT THE TIME OF BUILDING PERMIT.
5. DEVELOPER SHALL COMPLY WITH SECTION 13.08.170 (EXCESSIVE PAVING CUTS) OF THE EL PASO MUNICIPAL CODE.
6. IMPROVEMENTS SHALL NOT BE PLACED ON SIDEWALK (NDBCU's, SIGNS, POLES, FIRE HYDRANTS, ETC.) REFER TO STANDARD DETAILS SHEET FOR SPECIFICATIONS.
7. IMPROVEMENTS SHALL COMPLY WITH T.A.S./A.D.A. STANDARDS REFER TO DETAIL 8-19 FOR PASSING SPACE DETAIL.
8. MAINTENANCE OF BASINS, SLOPED AREAS, FENCING AND LOOSE ROCK RIP-RAP OUTSIDE SUBDIVISION BOUNDARIES SHALL BE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ADJACENT SUBDIVISIONS ARE FULLY DEVELOPED AND DEDICATED TO THE CITY OF EL PASO FOR MAINTENANCE.

BENCHMARK

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

FLOOD ZONE:

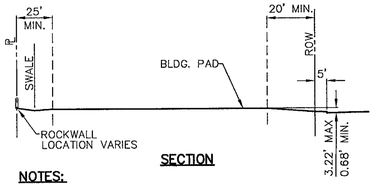
THIS SUBDIVISION LIES WITH IN ZONE "X" AS DESIGNATED IN PANEL NO. 480212 0250 B, DATED SEPTEMBER 9, 1991, OF THE FLOOD INSURANCE RATE MAPS, EL PASO COUNTY, TEXAS. ZONE "X" INDICATES AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.

LEGEND:

NEW RETAINING ROCKWALL (2'-3' IN HEIGHT)

NEW RETAINING ROCKWALL (3'-9' IN HEIGHT)

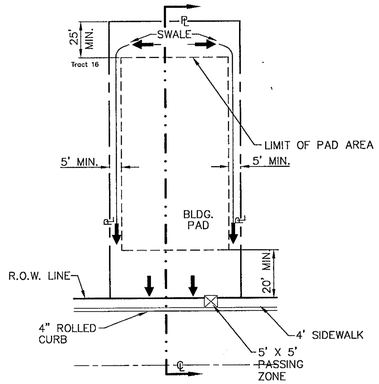
TEMPORARY 8" TO 10" LOOSE ROCK RIP-RAP



SECTION

NOTES:

1.- DRIVEWAY SLOPES MUST BE 10% MAX. FROM GUTTER FOR FIRST 12 FEET AND 14% MAX. THEREAFTER (EL PASO MUNICIPAL CODE 13.12.095) (DRIVEWAY SHALL BE LOCATED @ HIGH SIDE OF LOT UNLESS OTHERWISE COORDINATED WITH BUILDING SERVICES)



PLAN

TYPICAL LOT PLAN

SCALE: 1"=30'

REFERENCES - BENCHMARKS

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DRAWN BY:	F.Z.
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PROJECT TITLE

MESQUITE TRAILS UNIT TWO
SUBDIVISION IMPROVEMENTS

SHEET TITLE

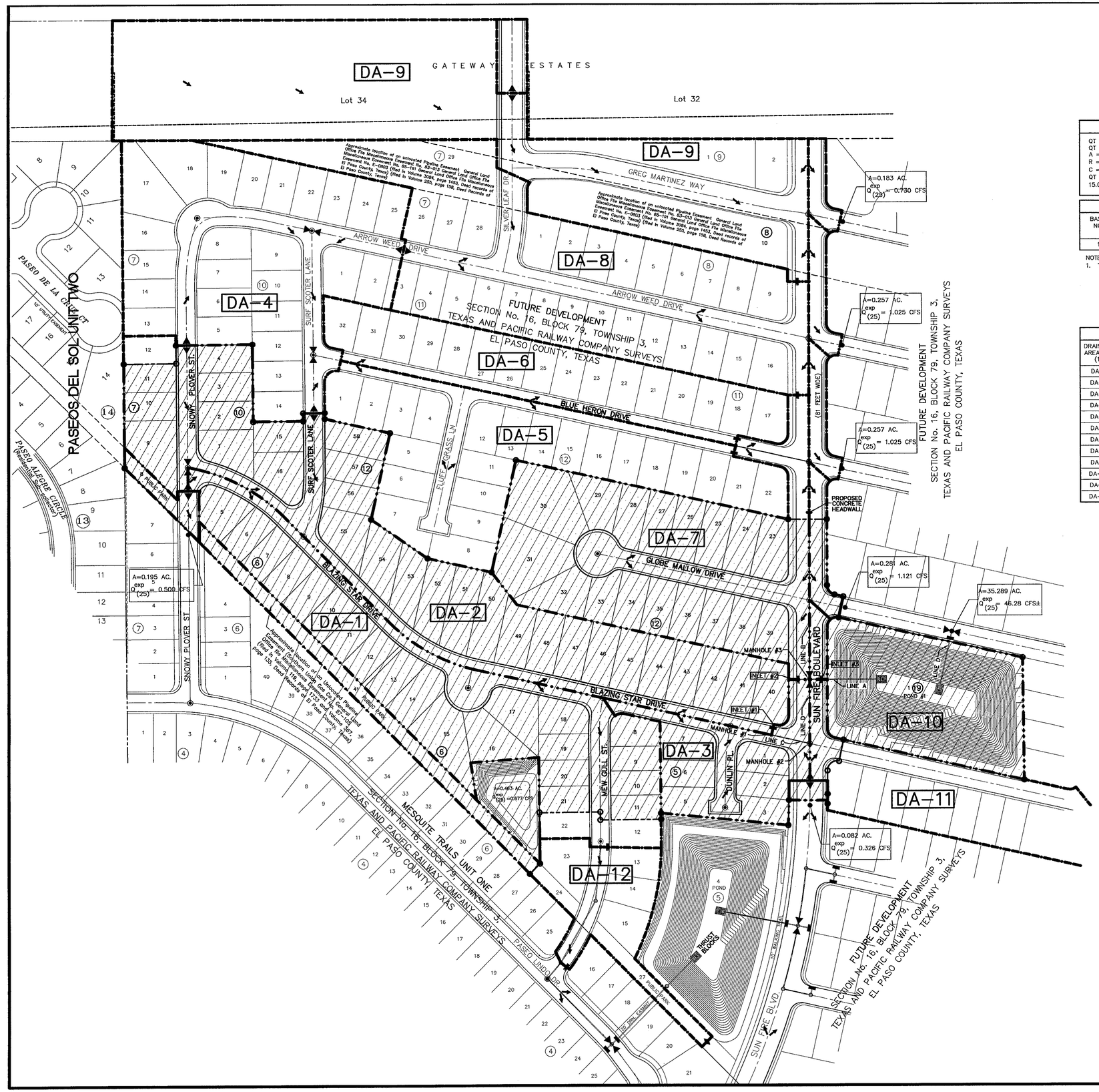
GRADING PLAN

SHEET NO.

3

OF 26

103058



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NEW POND #1 CALCULATIONS

QT = (ARC)/12
QT = 15.007
A = 82.913
R = 4"
C = 0.543
QT X 25% = 3.752
15.007 + 3.752 = 18.759

SILT VOLUME = 0.995
0.012 AC-FT/AC
18.759 + 0.995 = 19.754 AC-FT

$TOTAL_{req}$= 19.754 AC-FT

NEW RETENTION BASIN #1

BASIN NO.	REQUIRED CAPACITY (AC.-FT.)	AVAILABLE CAPACITY (AC.-FT.)	PEAK INFLOW (CFS)	OUTLET TOWER FLOW (CFS)	HIGH WATER SURFACE ELEV. (FT.)	BOTTOM ELEVATION	FREE BOARD (FT.)
1	19.754	21.696	147.897	0	3971.81±	3948.00	1.190

NOTE:
1. THE HWSE REFLECTS THE ELEVATION AS REQUIRED BY THE CITY OF EL PASO.

HWSE = QT + SILT VOLUME + 25% EMERGENCY STORAGE
HWSE = 15.007 + 0.995 + 3.752 = 19.754 AC-FT
CONTOUR 3971, ACCUMULATED VOLUME = 18.475 AC-FT
CONTOUR 3972, ACCUMULATED VOLUME = 20.047 AC-FT
HIGH WATER SURFACE ELEVATION = 3971.81

NEW POND#1 AREAS

CONTOUR	ACCUMULATED VOLUME (AC-FT.)
3973	21.696
3972	20.047
3971	18.475
3970	16.980
3969	15.559
3968	14.212
3967	12.935
3966	11.728
3965	10.588
3964	9.515
3963	8.506
3962	7.561
3961	6.676
3960	5.851
3959	5.084
3958	4.374
3957	3.718
3956	3.115
3955	2.563
3954	2.061
3953	1.607
3952	1.199
3951	0.837
3950	0.517
3949	0.239
3948	0.000

WATERSHED AREAS

DRAINAGE AREA NO. (1)	DRAINAGE AREA (AC) (2)	DESIGN STORM INTENSITY (I25) (3)	TIME OF CONCENTRATION (4)	RUNOFF COEFF. (C) (5)	Q25 (CFS) (6)
DA-1	4.680	3.214	20.181	0.554	8.333
DA-2	6.732	2.943	23.745	0.500	9.906
DA-3	1.517	2.925	24.000	0.600	2.662
DA-4	5.511	2.770	26.400	0.500	7.633
DA-5	4.245	3.261	19.649	0.500	6.921
DA-6	2.839	3.032	22.500	0.500	4.304
DA-7	4.867	2.960	23.500	0.549	7.909
DA-8	6.331	3.412	17.990	0.613	13.242
DA-9	7.872	3.101	21.600	0.731	17.844
DA-10	2.378	4.431	10.000	0.330	3.477
DA-11	4.197	2.834	25.386	0.625	7.205
DA-12	2.506	3.148	21.000	0.752	5.933

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

(1) WATERSHED AREA IDENTIFICATION
(2) AREA FROM DRAINAGE PLAN
(3) RAINFALL INTENSITY, 25 YEAR STORM => PLATE NO. 2-14
(4) TIME OF CONCENTRATION: TC= T (OVERLAND) + T (GUTTER)
(5) RUNOFF COEFFICIENT => PLATE NO. 2-10 TABLE A
RESIDENTIAL AREA = 0.60
PAVEMENT AREA = 0.90
(6) Q_{25}= C X A X I_{25}

MOMENTUM COMPUTATION

LOCATION @ INLET (1)	DEPTH (2)	VELOCITY (3)	PRODUCT NUMBER (4)
1	0.29	3.85	1.12
2	0.29	4.23	1.23
3	0.25	3.84	0.96

(1) LOCATION
(2) DEPTH
(3) VELOCITY
(4) PRODUCT NUMBER = DEPTH X VELOCITY

DROP INLETS

NO.	REQ. FLOW CAPACITY Q REQ (CFS)	AVAIL. FLOW CAPACITY Q AVAIL. (CFS)	ADDITIONAL FLOW (CFS)	FLOW BYPASS (CFS)	# OF GRATES	TYPE OF INLET
1	9.906	19.630	0.000	0.000	2	1
2	10.582	19.630	0.000	0.000	2	1
3	7.205	19.630	0.000	0.000	2	1

NOTE:
THIS SUBDIVISION LIES WITH IN ZONE "X" AS DESIGNATED IN PANEL NO. 480212 0250 B, DATED SEPTEMBER 9, 1991, OF THE FLOOD INSURANCE RATE MAPS, EL PASO COUNTY, TEXAS. ZONE "X" INDICATES AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.

LEGEND:
SUBDIVISION WATERSHEDS BOUNDARY
OUT OF BOUNDARY SUBDIVISION WATERSHEDS
MESQUITE TRAILS UNIT TWO SUBDIVISION BOUNDARY

DRAINAGE PLAN
SCALE: 1" = 100'

REFERENCES - BENCHMARKS
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE. ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

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www.ceagroup.net

ENGINEER'S SEAL
JORGE L. AZCARATE
85075
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

SCALE
Horizontal: 1"=100'
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2007
DESIGN BY: F.Z.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2250-008

PROJECT TITLE
MESQUITE TRAILS UNIT TWO
SUBDIVISION IMPROVEMENTS

SHEET TITLE
DRAINAGE PLAN

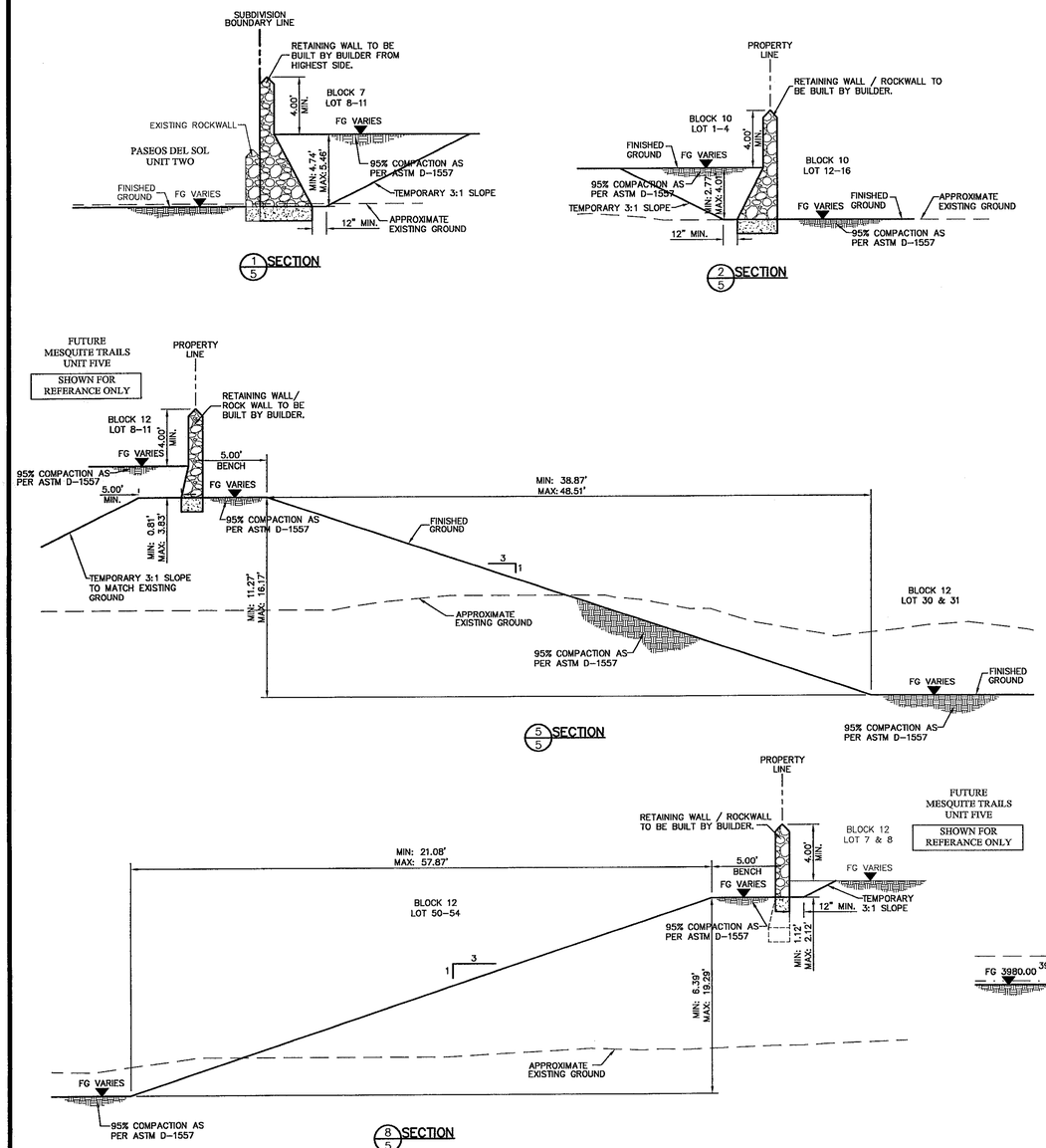
SHEET NO.
4
OF 26

103058

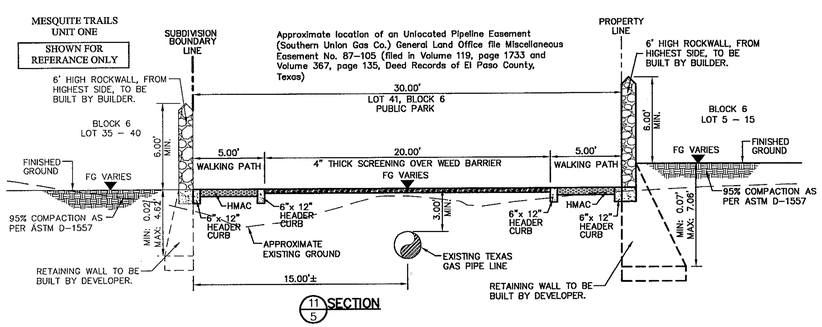
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. – SIGNAL & SIGN	(915) 621-6750
(AFTER HOURS)	(915) 240-3220

WARNING ! BEFORE YOU DIG

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



1/5 SECTION
2/5 SECTION
3/5 SECTION
4/5 SECTION
5/5 SECTION
6/5 SECTION
7/5 SECTION
8/5 SECTION
9/5 SECTION
10/5 SECTION



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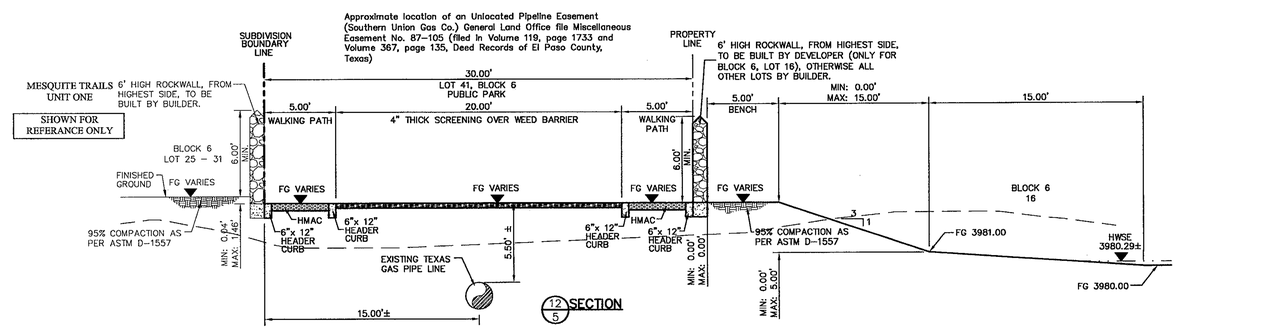

12/5 SECTION

REFERENCES – BENCHMARKS

BENCHMARK IS SITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

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Office 915.544.5232 Fax 915.544.5233
www.ceagroup.net

ENGINEER'S SEAL

SCALE
Horizontal: 1" = 5'
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2007
DESIGN BY: F.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2250-009

PROJECT TITLE

MESQUITE TRAILS UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE

TYPICAL GRADING SECTIONS

(SHEET 1 OF 2)

SHEET NO.

5

OF 26

103058

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
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AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
(AFTER HOURS)	(915) 240-3220

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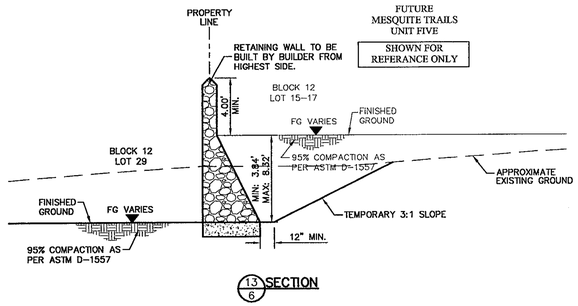
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES



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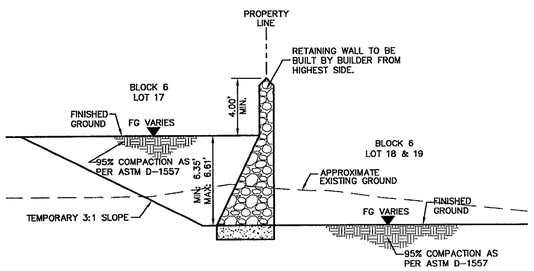

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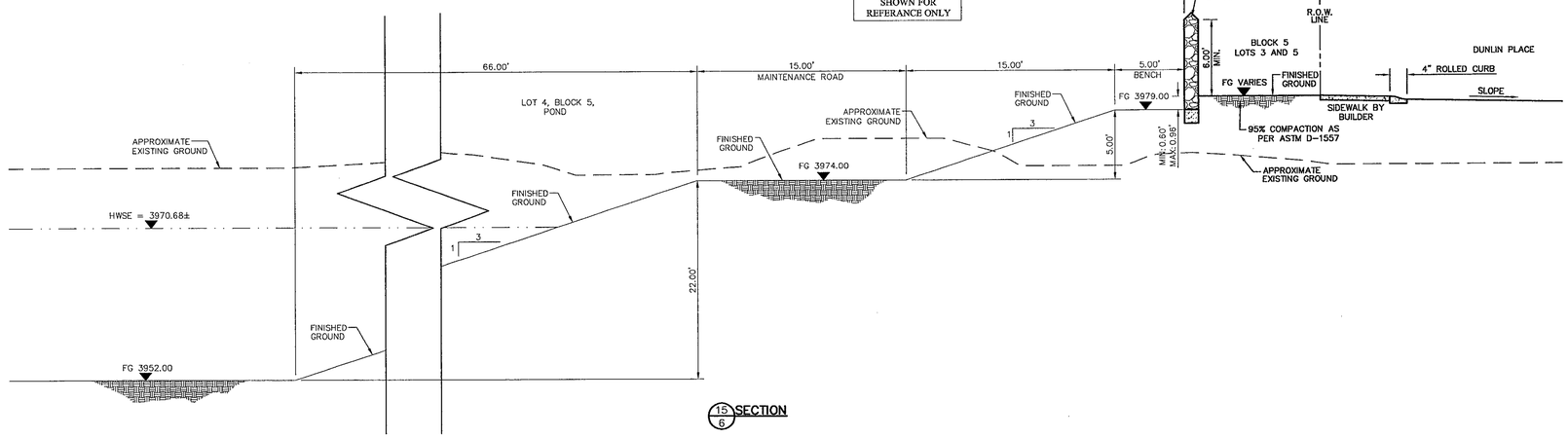

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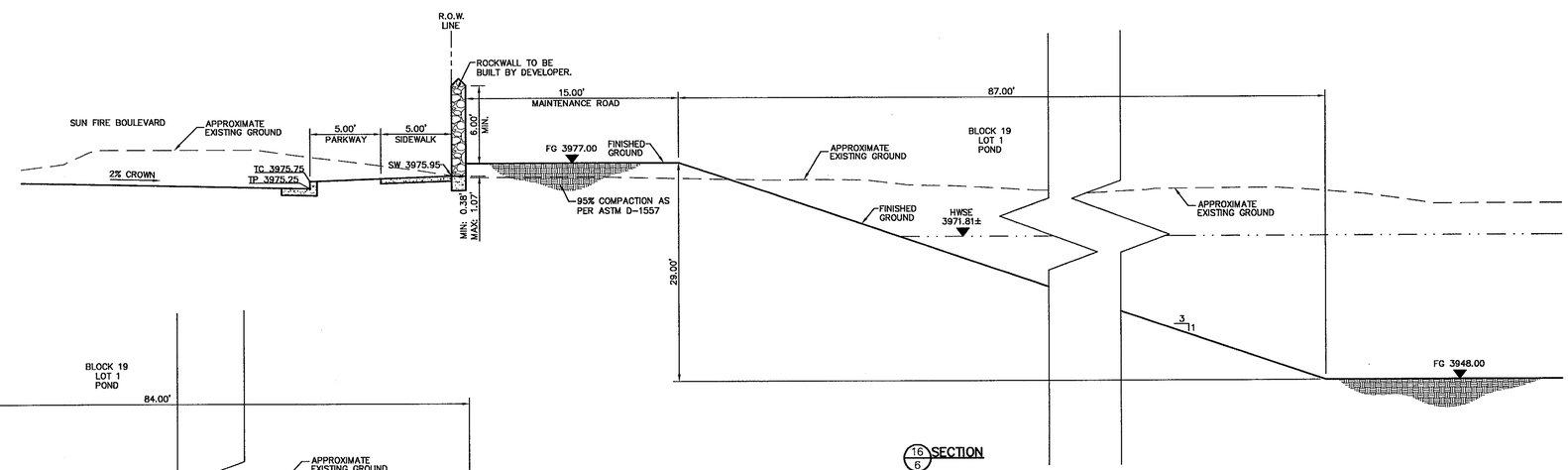

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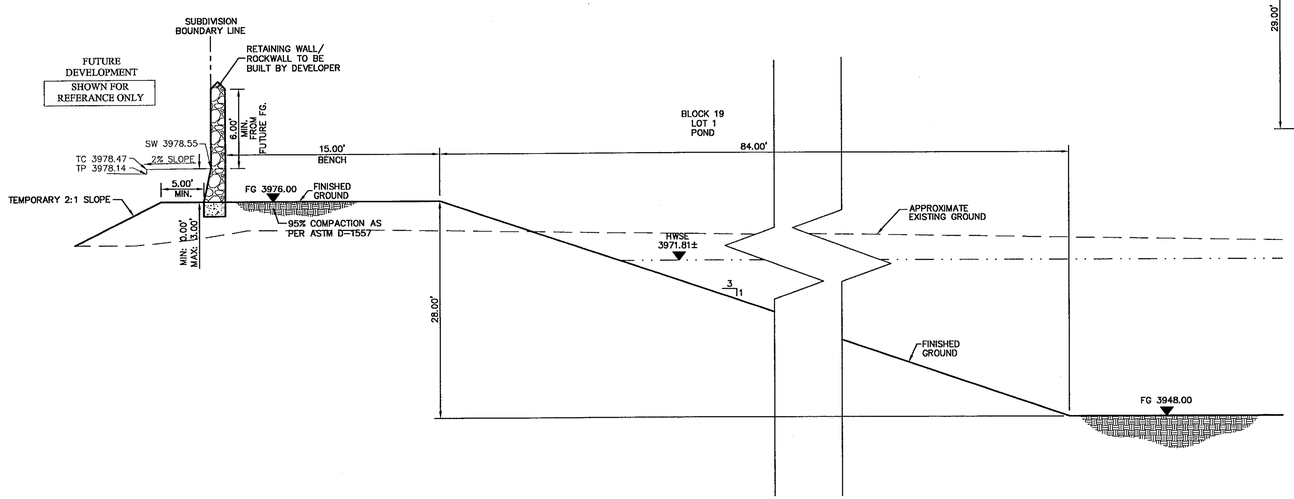

17/6 SECTION

REFERENCES - BENCHMARKS
BENCHMARK LIS STT MONUMENT AT THE INTERSECTION OF PASO ALTO AND PASEO LINDO DRIVE. ELEVATION = 4003.10 (CITY DATUM).

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www.ceagroup.net

ENGINEER'S SEAL
JOSE L. LAZARTE
85075
LICENSED
PROFESSIONAL ENGINEER
9/19/07

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

DATE: JUNE 2007
DESIGN BY: F.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPV'D. BY: J.L.A.
JOB No. 2250-008

PROJECT TITLE
MESQUITE TRAILS UNIT TWO
SUBDIVISION IMPROVEMENTS

SHEET TITLE
TYPICAL GRADING SECTIONS
(SHEET 2 OF 2)

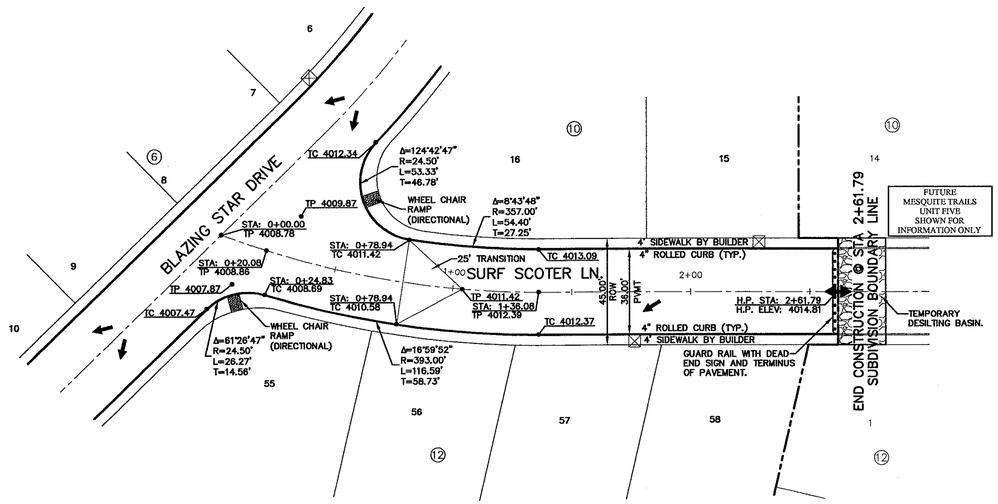
SHEET NO.
6
OF 26

103058

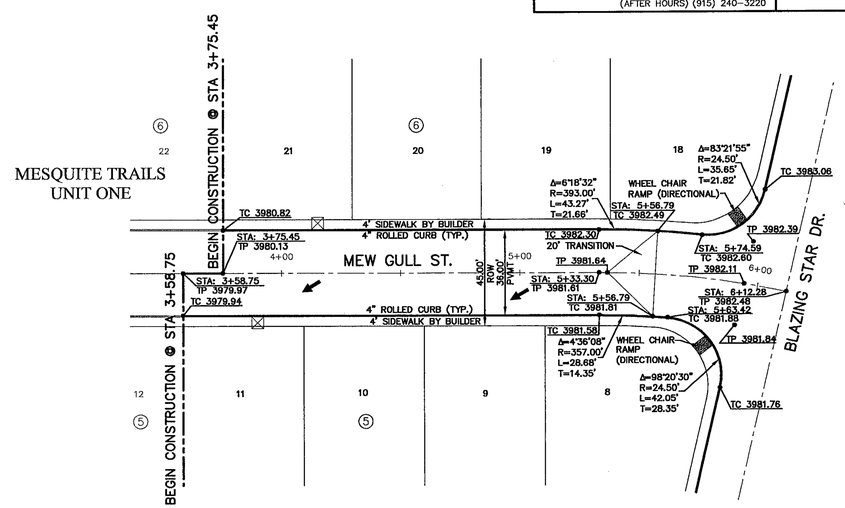
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
(AFTER HOURS)	(915) 240-3220

WARNING ! BEFORE YOU DIG

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



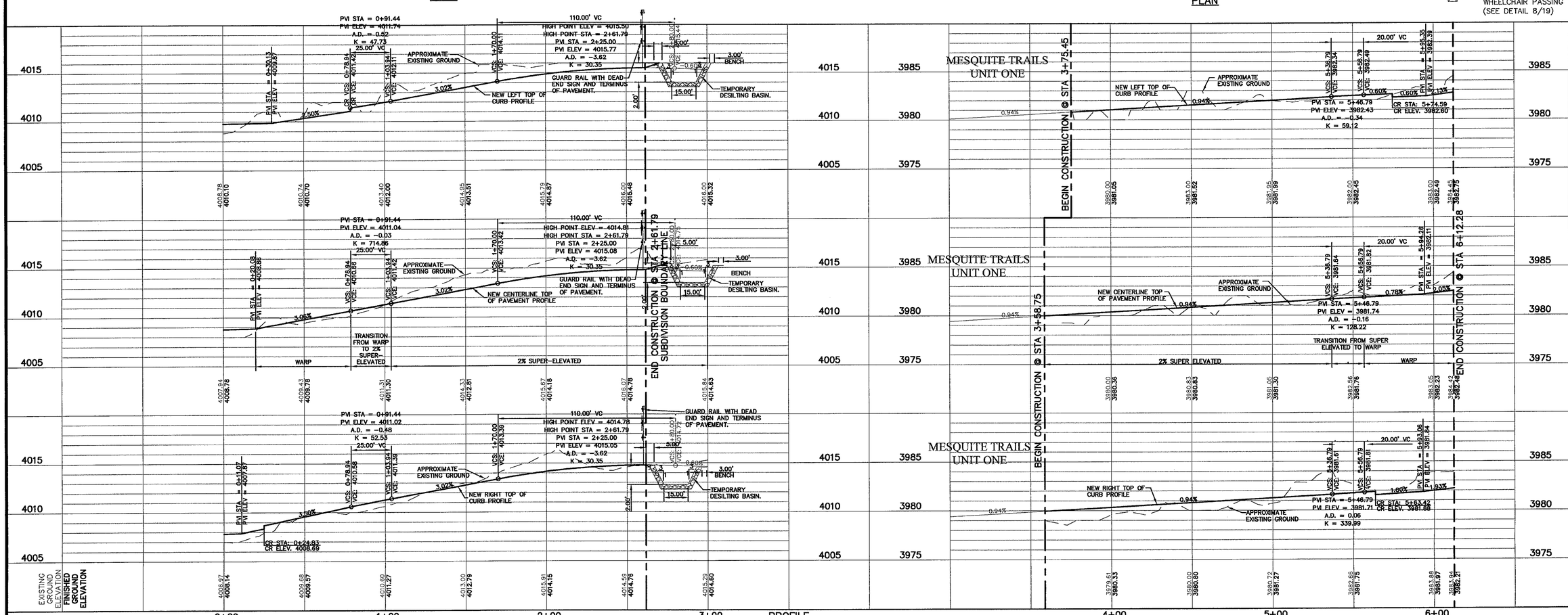
PLAN



PLAN

LEGEND:

☒ APPROXIMATE 5' X 5' WHEELCHAIR PASSING (SEE DETAIL 8/19)



PROFILE

REFERENCES - BENCHMARKS

BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

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cea group
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Office 915.544.5232 Fax 915.544.5233
www.ceagroup.net

ENGINEER'S SEAL

JORGE L. AZCARATE 85075

SCALE
Horizontal: 1" = 30'
Vertical: 1" = 5'
Contour Interval: N/A
DATE: JUNE 2007
DESIGN BY: F.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPV'D. BY: J.L.A.
JOB No. 2250-008

PROJECT TITLE

MESQUITE TRAILS UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE

SURF SCOTER LANE PLAN & PROFILE FROM STA. 0+00.00 TO STA. 2+61.79

MEW GULL STREET PLAN & PROFILE FROM STA. 3+58.75 TO STA. 6+12.28

SHEET NO.

7

OF 26

103058

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
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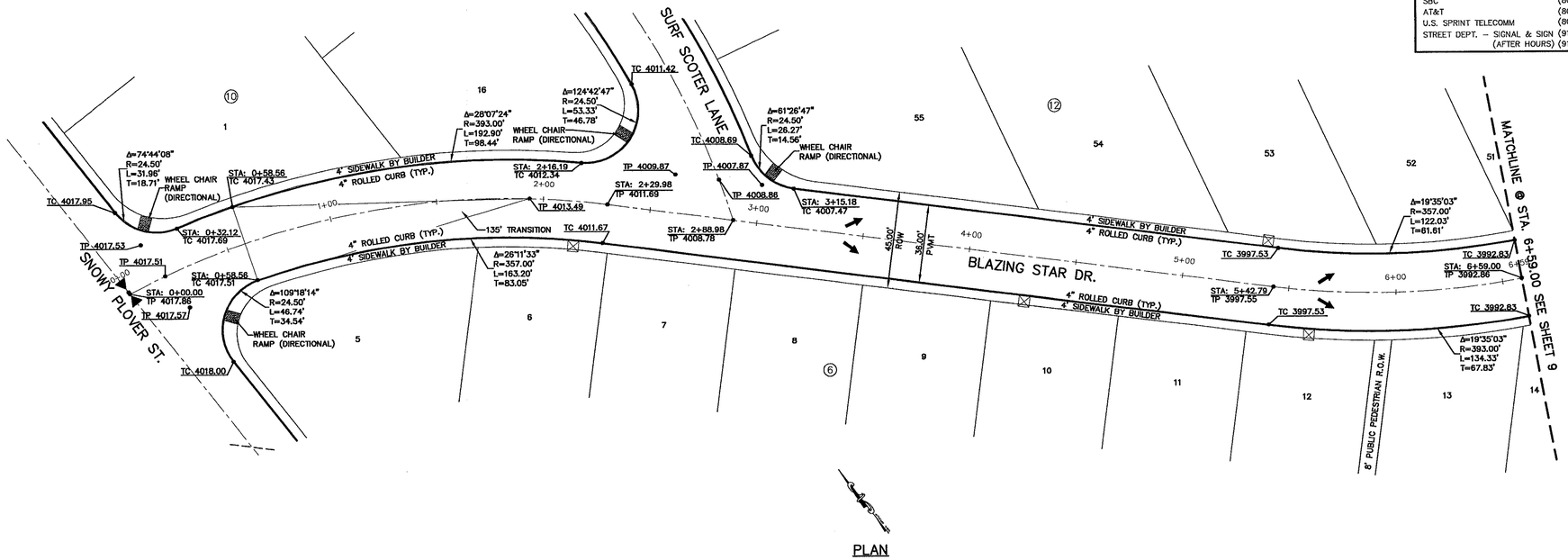
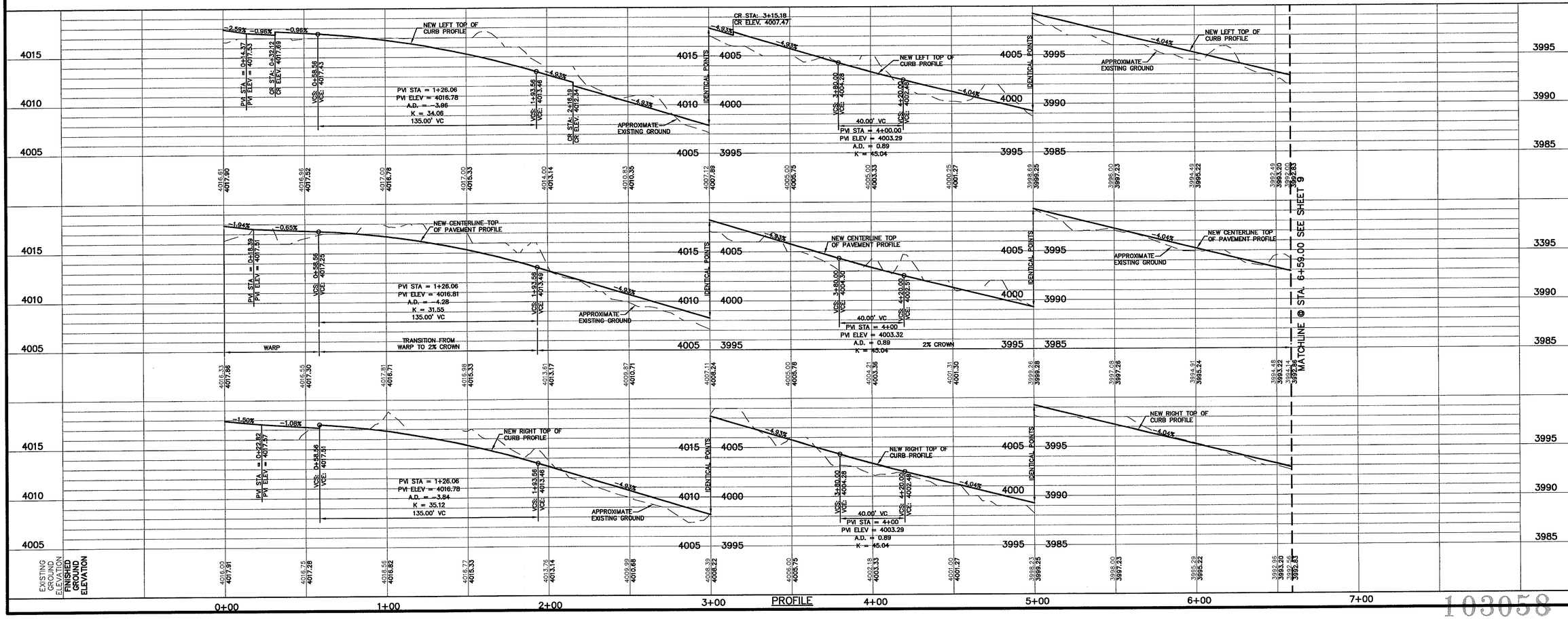
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. – SIGNAL & SIGN	(915) 621-6750
(AFTER HOURS)	(915) 240-3220

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



LEGEND:

⊠ APPROXIMATE 5' X 5' WHEELCHAIR PASSING (SEE DETAIL 8/19)



REFERENCES – BENCHMARKS

BENCHMARK (IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE. ELEVATION = 4003.10 (CITY DATUM).

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Office 915.544.5232 Fax 915.544.5233
www.ceagroup.net

ENGINEER'S SEAL

MICHAEL L. MCCANTS 85075 1/31/07

SCALE	
Horizontal:	1"=30'
Vertical:	1"=5'
Contour Interval:	N/A
DATE:	JUNE 2007
DESIGN BY:	F.Z.
DRAWN BY:	A.B.
CHKD. BY:	J.L.A.
APPVD. BY:	J.L.A.
JOB No.	2250-008

PROJECT TITLE

MESQUITE TRAILS UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE

BLAZING STAR DR. PLAN & PROFILE FROM STA. 0+00.00 TO STA. 6+59.00

SHEET NO.

8 OF 26

103058

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
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U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
(AFTER HOURS)	(915) 240-3220

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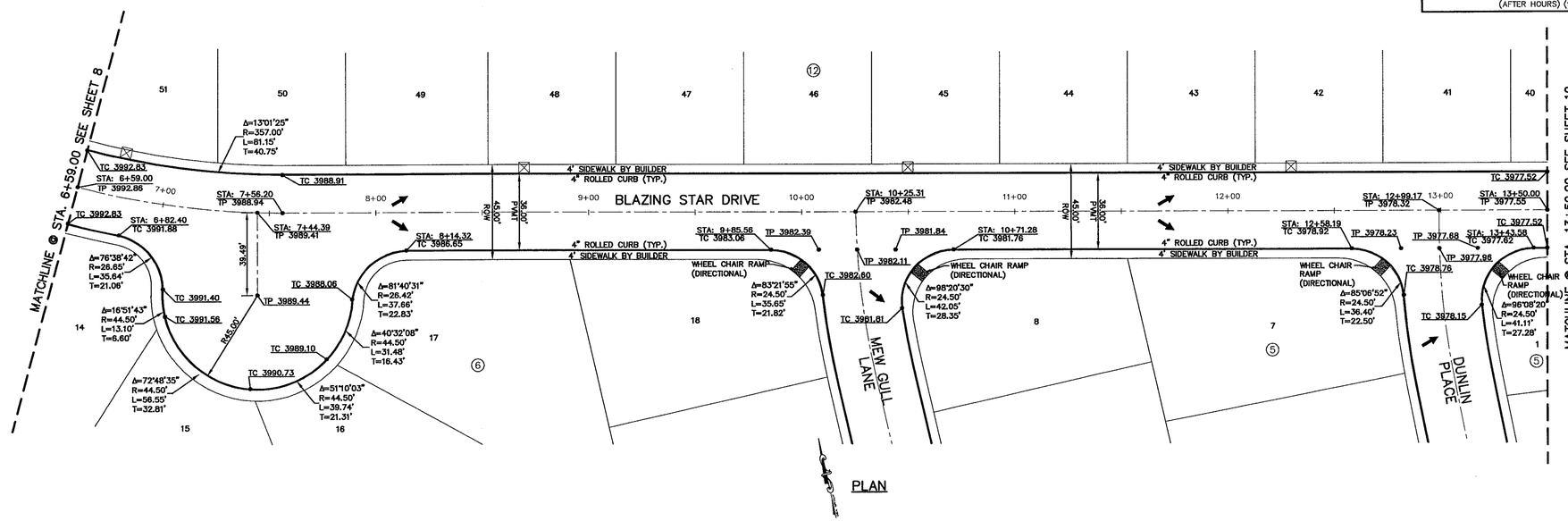
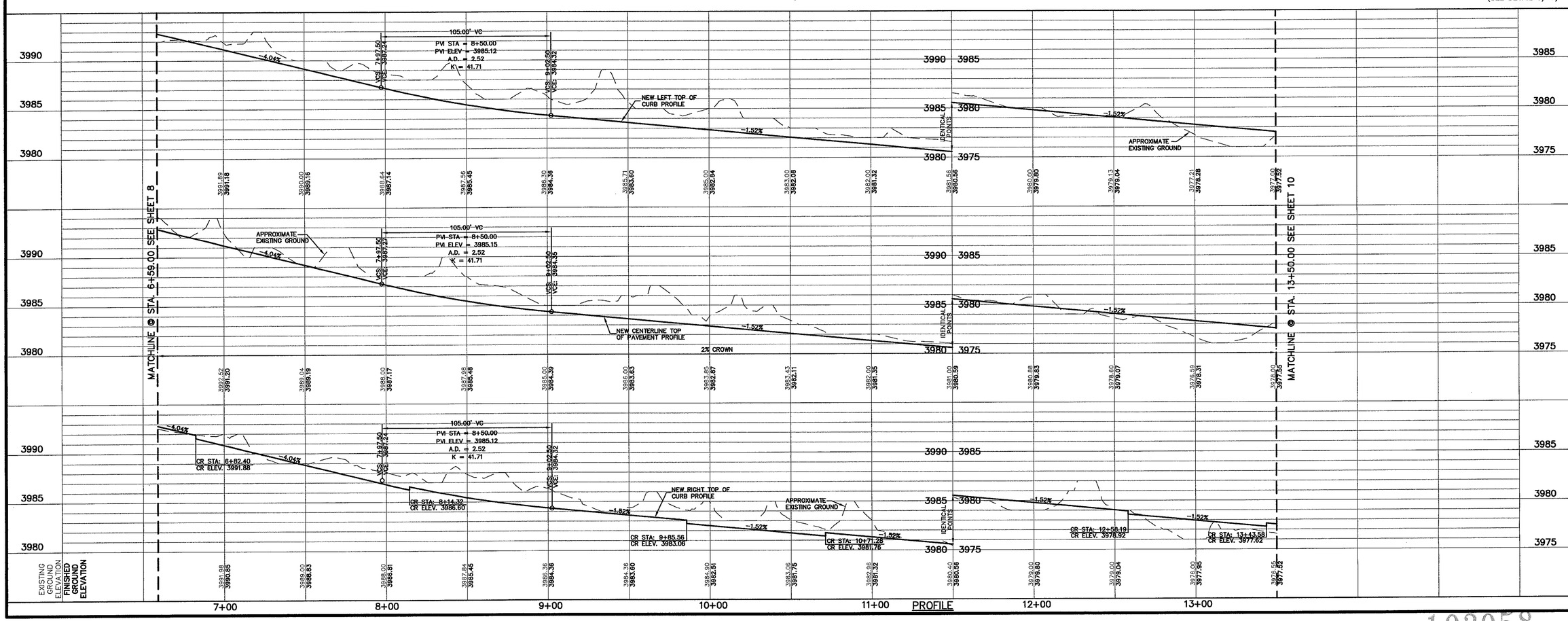
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES



LEGEND:

⊠ APPROXIMATE 5' X 5' WHEELCHAIR PASSING (SEE DETAIL 8/19)



REFERENCES - BENCHMARKS
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DATE	REVISIONS	BY

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www.ceagroup.net

ENGINEER'S SEAL
JORGE L. AZCARATE 85075 LICENSED PROFESSIONAL ENGINEER 3/9/07

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

DATE: JUNE 2007
DESIGN BY: F.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2250-008

PROJECT TITLE
MESQUITE TRAILS UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE
BLAZING STAR DR. PLAN & PROFILE FROM STA. 6+59.00 TO STA. 13+50.00

SHEET NO.
9
OF 26

103058

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
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STREET DEPT. – SIGNAL & SIGN	(915) 621-6750
(AFTER HOURS)	(915) 240-3220

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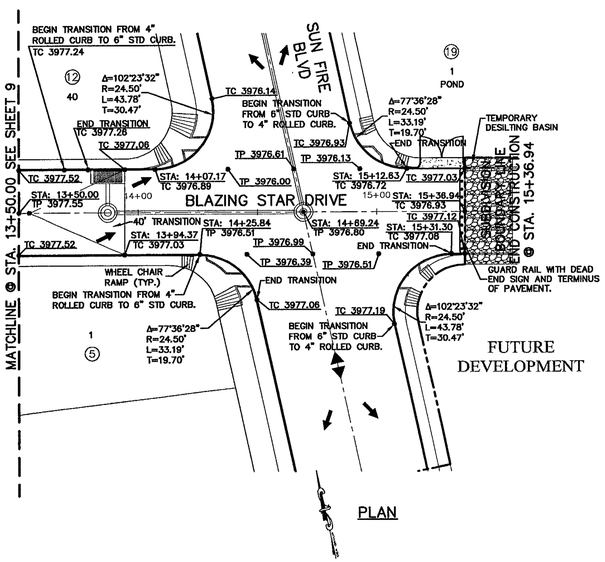
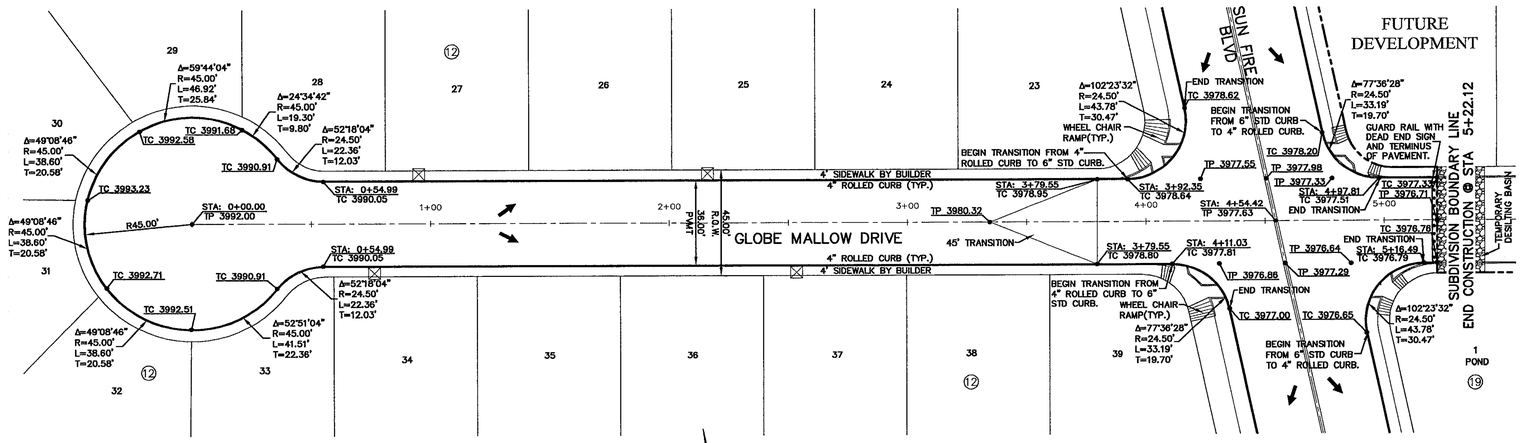
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES



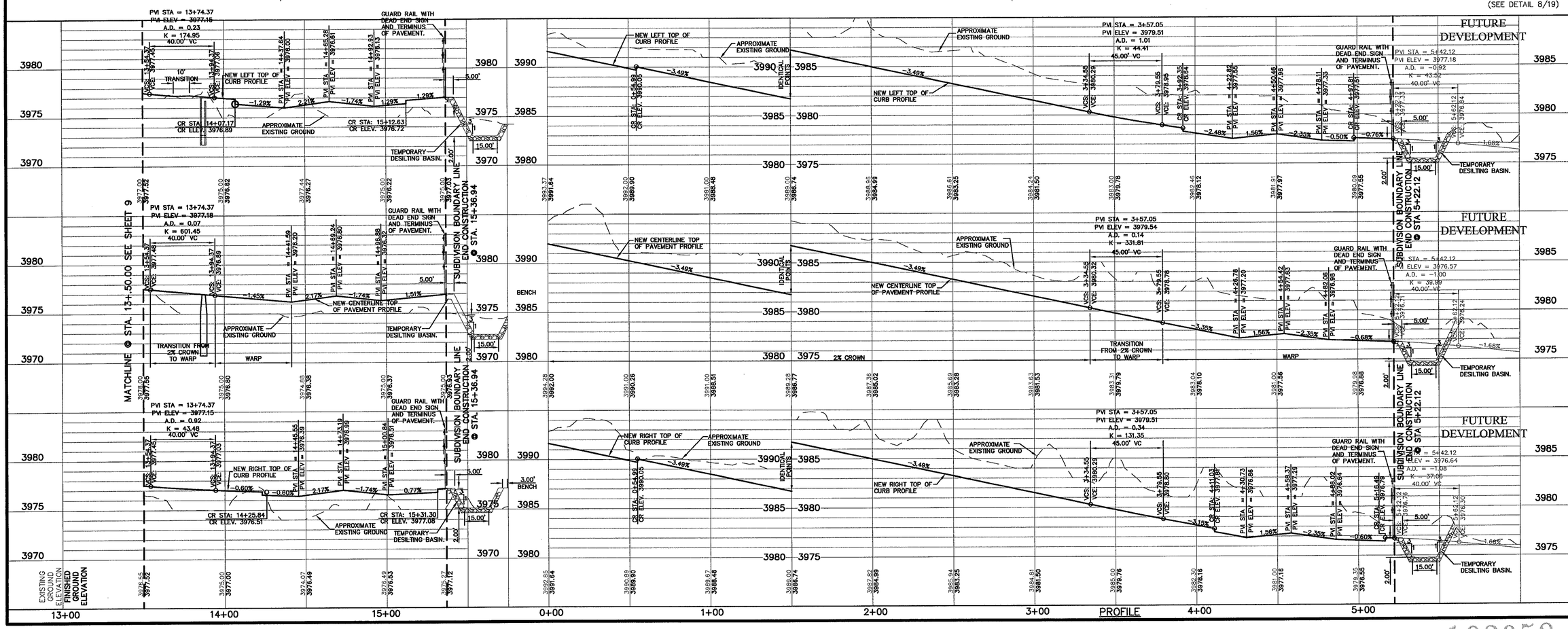
PLAN



PLAN

LEGEND:

⊠ APPROXIMATE 5' X 5' WHEELCHAIR PASSING (SEE DETAIL 8/19)



PROFILE

REFERENCES – BENCHMARKS

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Office 915.544.5232 Fax 915.544.5233
www.ceagroup.net

ENGINEER'S SEAL
JORGE L. AZCARATE
86075
3/12/07

SCALE
Horizontal: 1"=30'
Vertical: 1"=5'
Contour Interval: N/A
DATE: JUNE 2007
DESIGN BY: F.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2250-008

PROJECT TITLE

MESQUITE TRAILS UNIT TWO
SUBDIVISION IMPROVEMENTS

SHEET TITLE

BLAZING STAR DR. PLAN & PROFILE FROM STA. 13+50.00 TO STA. 15+36.94

GLOBE MALLOW DRIVE PLAN & PROFILE FROM STA. 0+00.00 TO STA. 5+22.12

SHEET NO.

10

OF 26

103058

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
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U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN	(915) 621-6750
(AFTER HOURS)	(915) 240-3220

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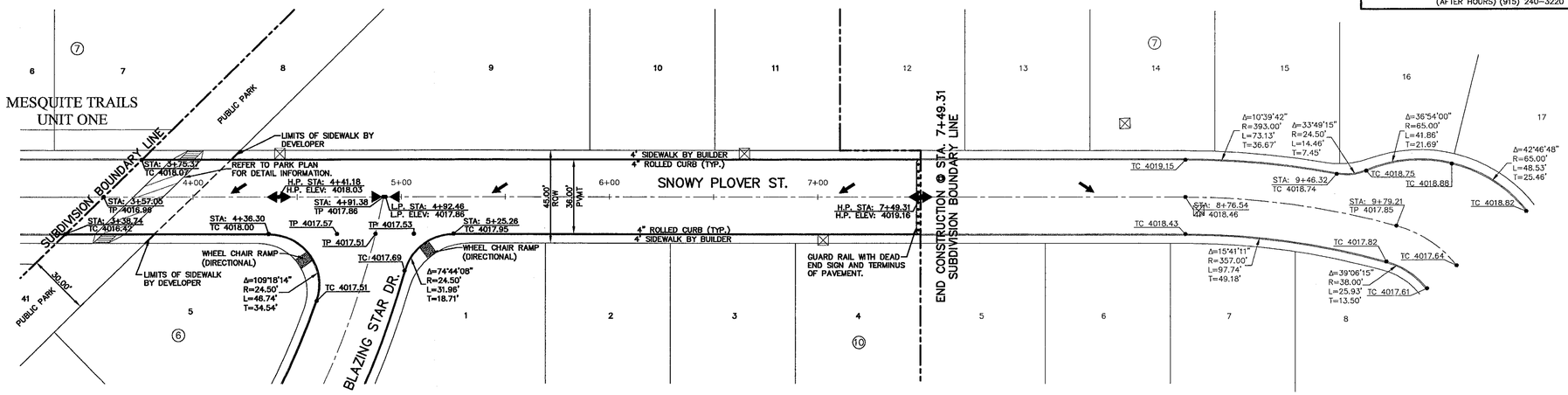
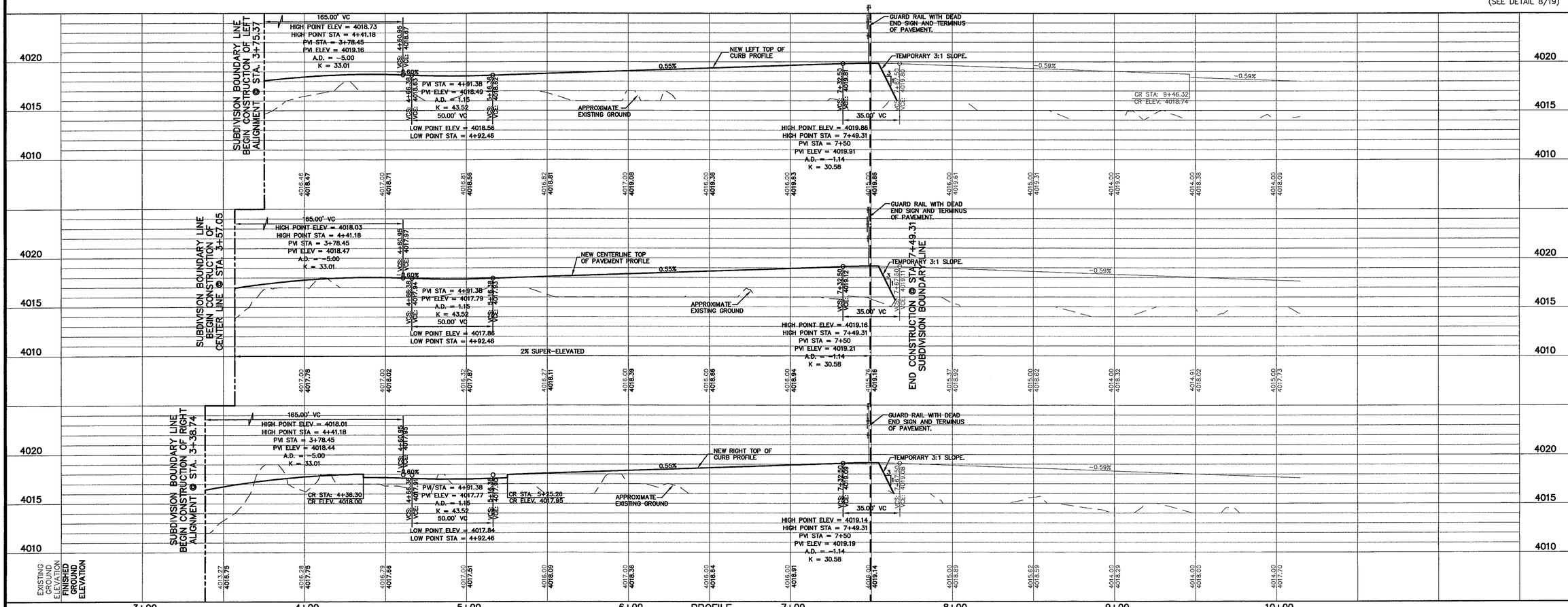


PLAN

LEGEND:

⊠ APPROXIMATE 5' X 5' WHEELCHAIR PASSING (SEE DETAIL 8/19)



PROFILE

REFERENCES - BENCHMARKS
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

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engineers • architects • planners
1204 Montana Ave., El Paso, Texas 79902
Office 915.544.5232 Fax 915.544.5233
www.cagroup.net

ENGINEER'S SEAL
JORGE L. AZCARATE 85075 LICENSED PROFESSIONAL ENGINEER 7/29/07

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

DATE: JUNE 2007
DESIGN BY: F.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2250-008

PROJECT TITLE
MESQUITE TRAILS UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE
SNOWY PLOVER ST. PLAN & PROFILE FROM STA. 3+57.05 TO STA. 7+49.31

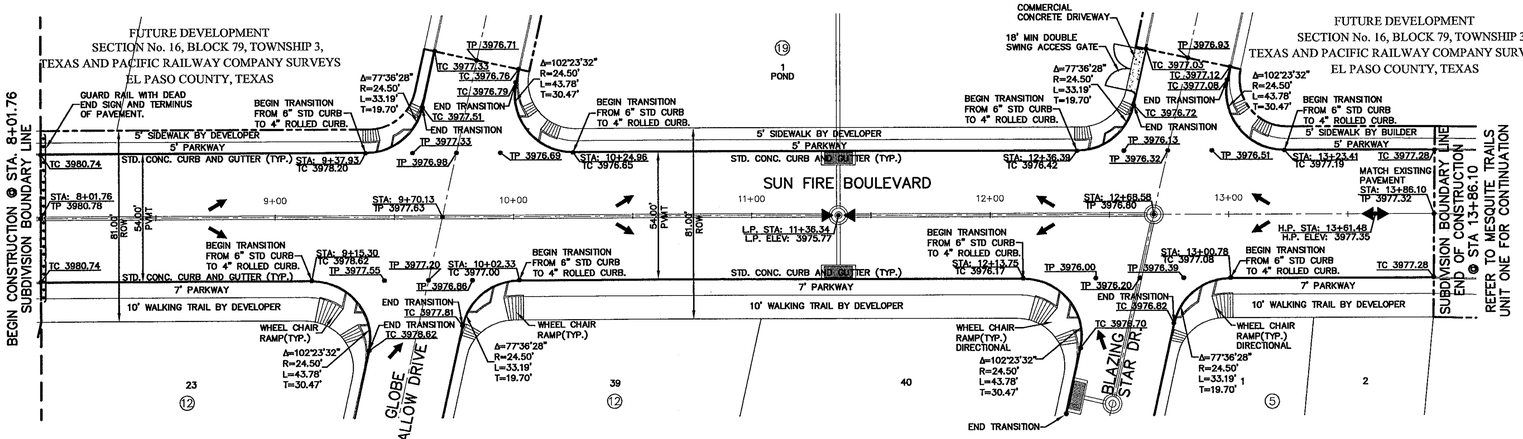
SHEET NO.
11
OF 26

103058

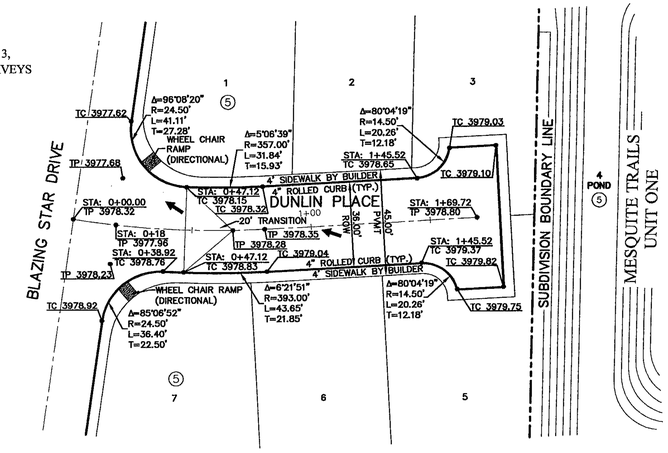
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579
STREET DEPT. - SIGNAL & SIGN (AFTER HOURS)	(915) 621-6750 (915) 240-3220

WARNING ! BEFORE YOU DIG

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



PLAN



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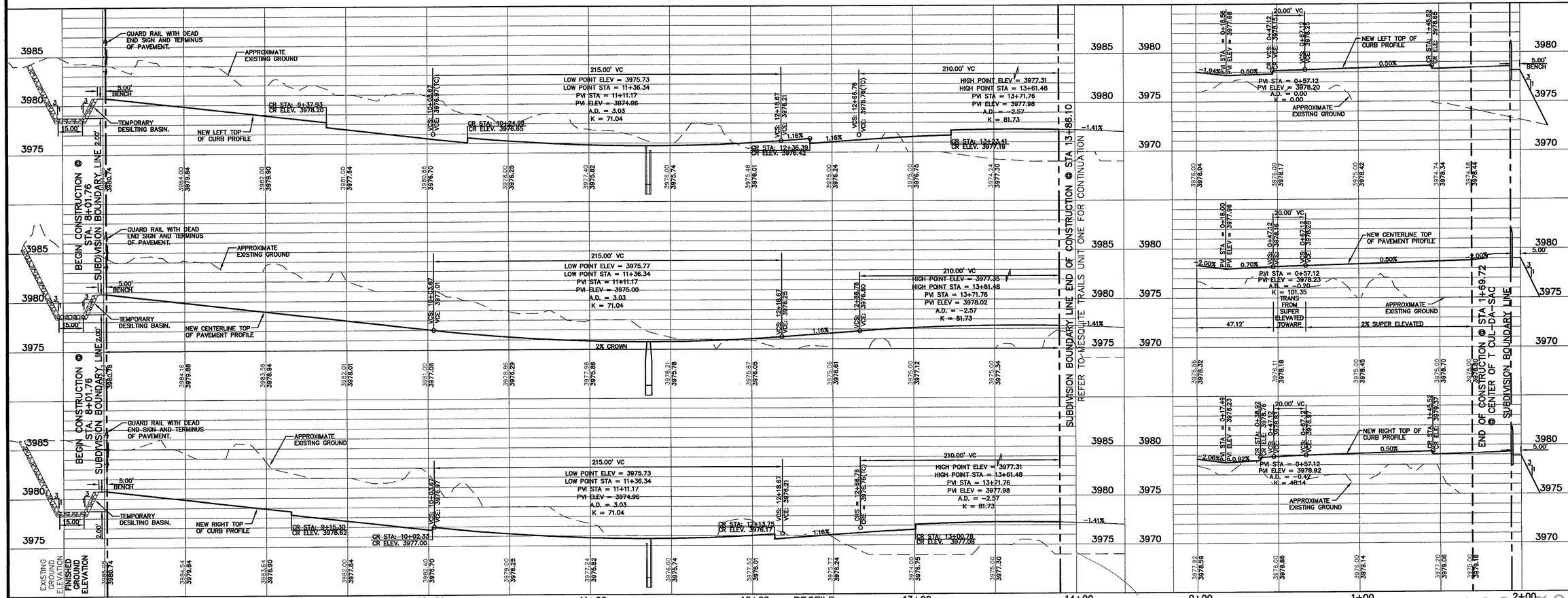

REFERENCES - BENCHMARKS
BENCHMARK (& CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

cea group
engineers • architects • planners
1204 Montana Ave., El Paso, Texas 79902
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www.ceagroup.net

ENGINEER'S SEAL
CHARLES L. ALCANTAR
85075
TEXAS
PROFESSIONAL ENGINEER
1/4/07

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

DATE: JUNE 2007
DESIGN BY: E.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPV'D. BY: J.L.A.
JOB No. 2250-008

PROJECT TITLE

MESQUITE TRAILS UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE
SUN FIRE BLVD PLAN & PROFILE FROM STA. 8+01.76 TO STA. 13+86.10
DUNLIN PLACE PLAN & PROFILE FROM STA. 0+00.00 TO STA. 1+69.72

SHEET NO.
12
OF 26

103058

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5527
PASEO DEL ESTE MUD NO. 1	(915) 858-1065
MCI SURVEILLANCE	(800) MCI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-6300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING ! BEFORE YOU DIG

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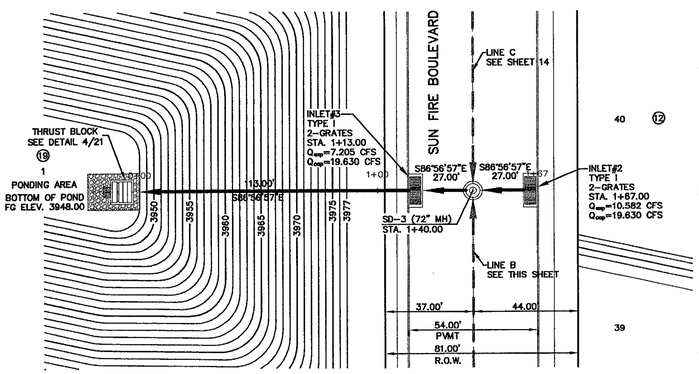
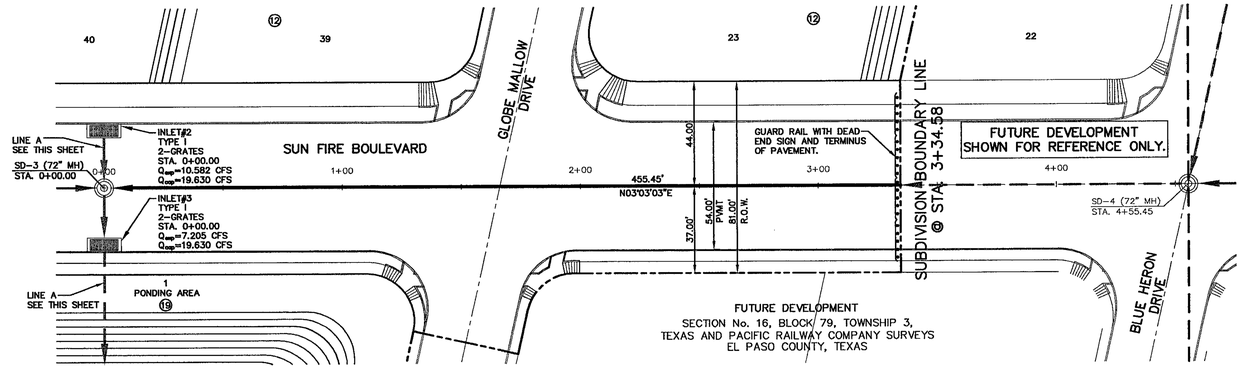
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

LINE A



PLAN

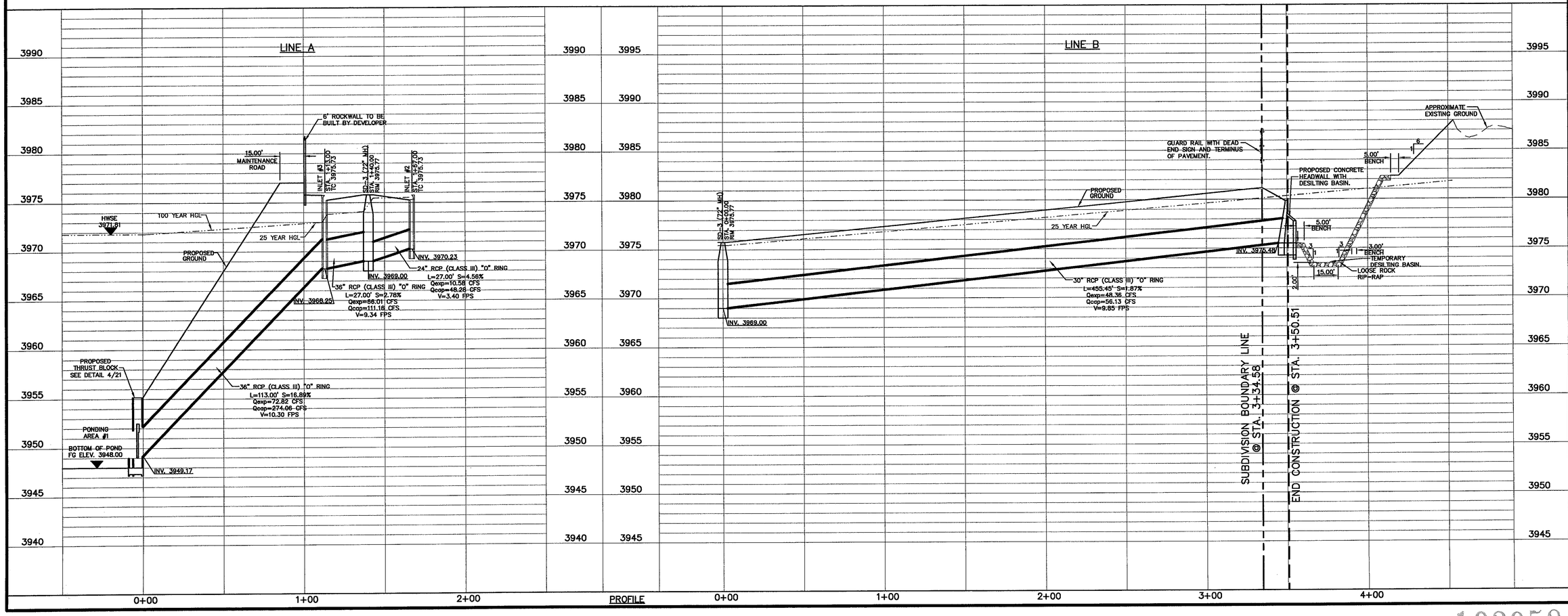
LINE B



PLAN

LEGEND:

- STORM SEWER LINE
- PROPSED STORM SEWER LINE ON OTHER STREETS
- DROP INLET
- MANHOLE



REFERENCES - BENCHMARKS

BENCHMARK "L5" CITY MONUMENT LOCATED AT THE INTERSECTION OF EL PASO ALBERT DRIVE AND LINGO DRIVE. ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

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1204 Montana Ave., El Paso, Texas 79902
Office 915.544.5233 Fax 915.544.5263
www.ceagroup.net

ENGINEER'S SEAL

STATE OF TEXAS — JOSE L. LIZARDI — 85075 — LICENSED PROFESSIONAL ENGINEER — 2/14/07

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

DATE: JUNE 2007
DESIGN BY: F.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2250-008-LD

PROJECT TITLE

MESQUITE TRAILS UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE

LINE A
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 1+67.00

LINE B
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 3+50.51

SHEET NO.

13

OF 26

103058

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5527
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AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

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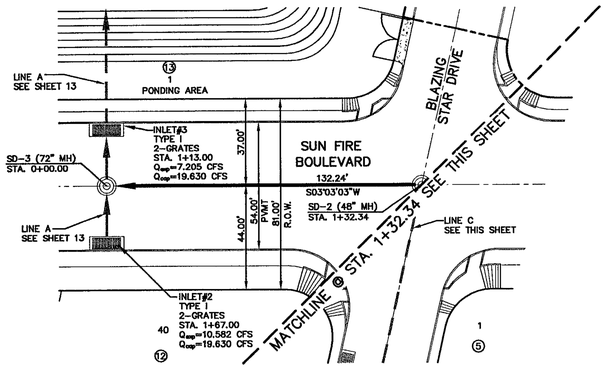
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES – BENCHMARKS

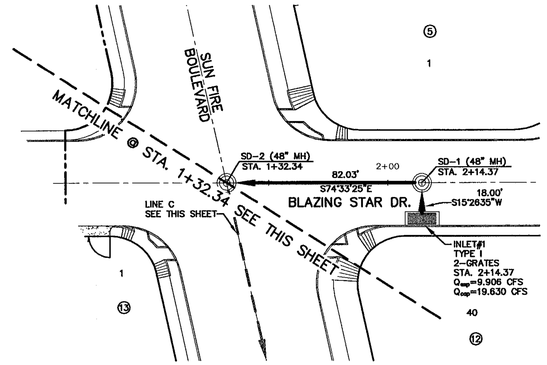
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

LINE C

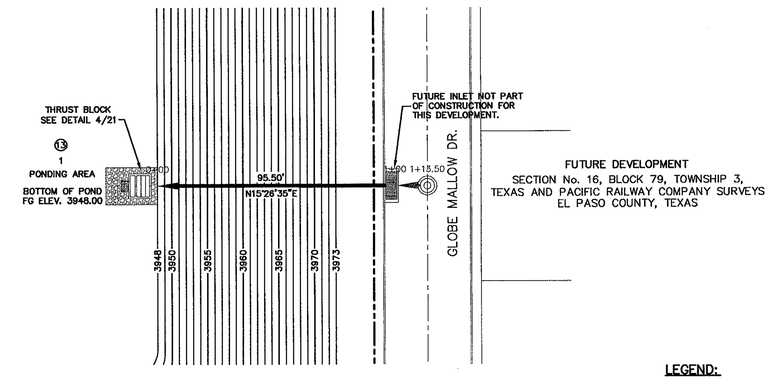


PLAN



PLAN

LINE D

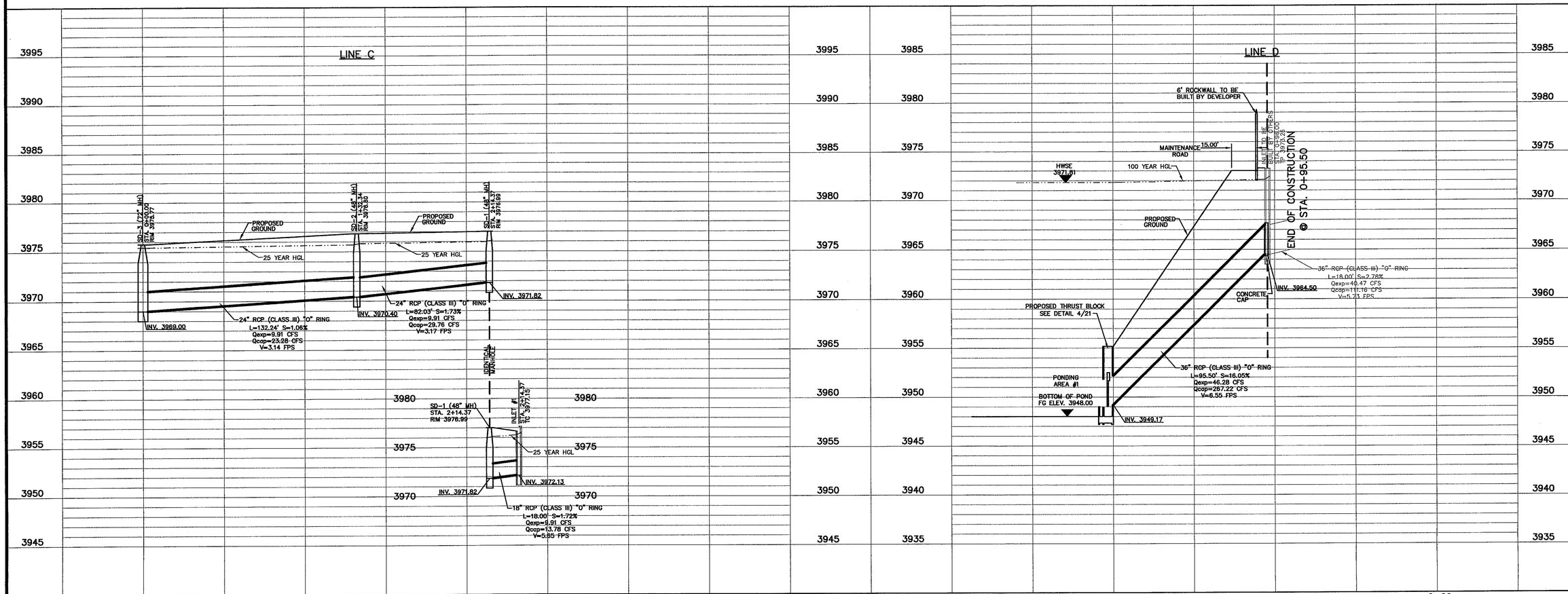


FUTURE DEVELOPMENT
SECTION No. 16, BLOCK 79, TOWNSHIP 3,
TEXAS AND PACIFIC RAILWAY COMPANY SURVEYS
EL PASO COUNTY, TEXAS

PLAN

LEGEND:

- STORM SEWER LINE
- PROPSED STORM SEWER LINE ON OTHER STREETS
- DROP INLET
- MANHOLE



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www.ceagroup.net

ENGINEER'S SEAL

JORGE L. AZCARATE
85075
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS
7/14/7

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

DATE: JUNE 2007
DESIGN BY: F.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2250-008-10

PROJECT TITLE

MESQUITE TRAILS UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE

LINE C
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 2+14.37

LINE D
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 0+95.50

SHEET NO.

14

OF 26

103058

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5527
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SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING ! BEFORE YOU DIG

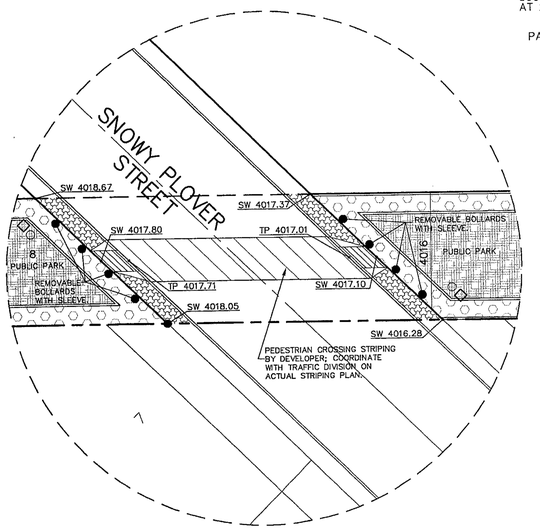
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING EXISTING UTILITIES

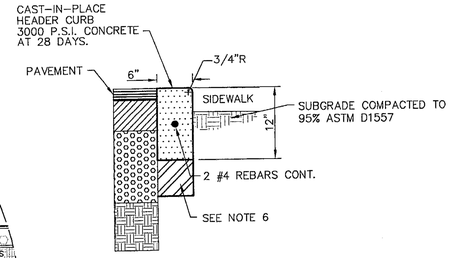
REFERENCES - BENCHMARKS

BENCHMARK IS SITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.19 (CITY DATUM).

DATE	REVISIONS	BY

DETAIL "A"



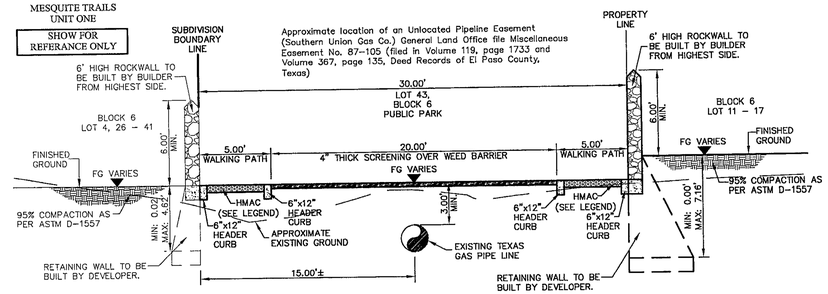


NOTES:

1. EXPANSION JOINTS WILL BE REQUIRED EVERY 50', AT THE END OF CURB RETURNS AND AT POINT OF TANGENCY WITH STRAIGHT RUNS.
2. CONTRACTION JOINTS (1/2 INCH MIN. SCORED JOINTS) MUST BE INSTALLED EVERY 10' O.C. IN HEADER CURB AND 5' O.C. FOR SIDEWALKS.
3. 1/2" PREMOLDED BITUMINOUS EXPANSION JOINT (AASHTO M-33) IS REQUIRED FOR ALL CURBS RETURNS. TRIM BITUMINOUS MATERIAL 1/4" LESS THAN NEAT HEADER CURB DIMENSION.
4. CONCRETE TO BE CLASS "A", 3000 P.S.I. MIN. @ 28 DAYS.
5. SUBGRADE COMPACTED TO 95% ASTM D1557.
6. HEADER CURB SHALL BEAR ON 6" (MIN.) OF CSBC OR 8" (MIN.) OF SUITABLE NATIVE OR IMPORTED SOIL MATERIAL AS APPROVED BY THE DESIGN ENGINEER AND/OR THE CITY OF EL PASO.

HEADER CURB DETAIL

SCALE: N.T.S.



TYPICAL 30' HIKE/BIKE TRAIL SECTION DETAIL

SCALE: N.T.S.

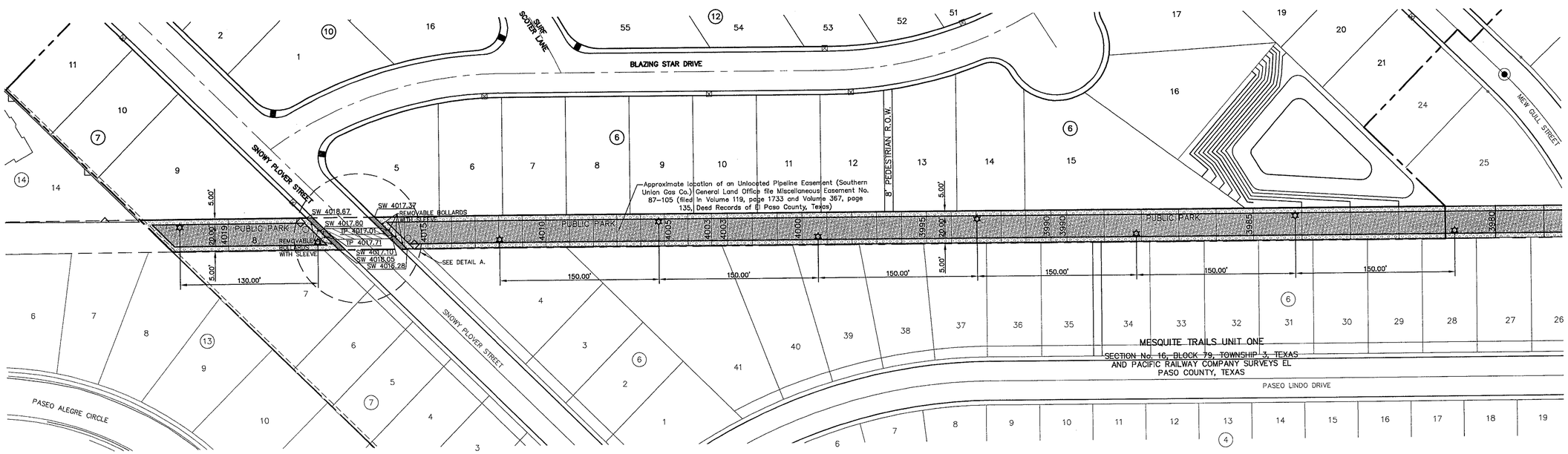
LEGEND:

- 1 1/2" HMAC TYPE D SEAL COATED (2 COATS) 6" CSBC 100% COMPACTED AS PER ASTM D-1557 6" SCARIFIED SUBGRADE 95% COMPACTED AS PER ASTM D-1557
- 4" SCREENING OVER NON WOVEN POLYPROPYLENE WEED BARRIER TO BE PINNED AT 3' ON CENTER EACH WAY AND AT ONE FOOT ON CENTER ALONG PERIMETER AND SEAMS; SEAMS TO BE OVERLAPPED A MINIMUM ONE FOOT.
- PROPOSED PARK LIGHTS BY DEVELOPER
- 5' STAMPED CONCRETE BY DEVELOPER (COORDINATE WITH PARKS DEPARTMENT FOR STAMP CONFIGURATION)
- PARK RULES SIGN INSTALLED BY DEVELOPER
- SAFETY CROSSING SIGN INSTALLED BY DEVELOPER

NOTES:

ALL PARK IMPROVEMENTS TO BE CONSTRUCTED BY DEVELOPER.

ALL WALKING PATHS SHALL COMPLY WITH ADA/TAS STANDARDS.



HIKE / BIKE TRAIL PLAN

SCALE: 1" = 50'

PARKS DEPARTMENT
Antonio M. Gil
August 13, 2007
— Approved —

ENGINEER'S SEAL

JORGE L. ACEVEDO 85075 LICENSED PROFESSIONAL ENGINEER 8/13/07

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Office 915.544.5232 Fax 915.544.5233
www.ceagroup.net

SCALE	
Horizontal:	1"=50'
Vertical:	N/A
Contour Interval:	N/A
DATE:	JUNE 2007
DESIGN BY:	F.Z.
DRAWN BY:	A.B.
CHKD. BY:	J.L.A.
APPVD. BY:	J.L.A.
JOB No.	2250-008

PROJECT TITLE

MESQUITE TRAILS UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE

HIKE & BIKE TRAIL PLAN

SHEET NO.

15

OF 26

103058

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
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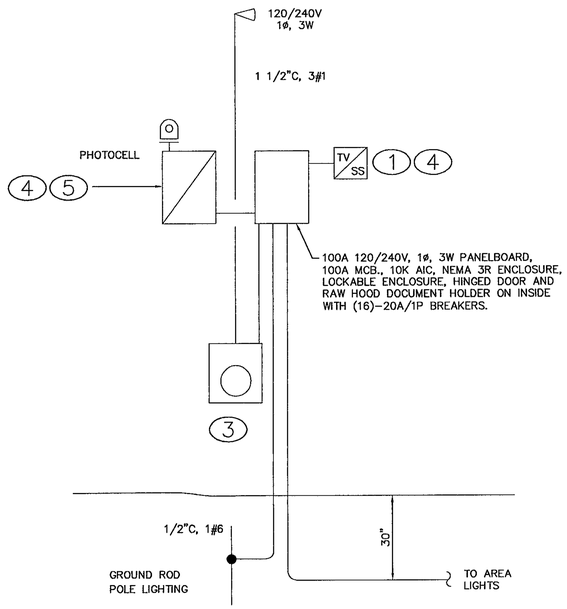
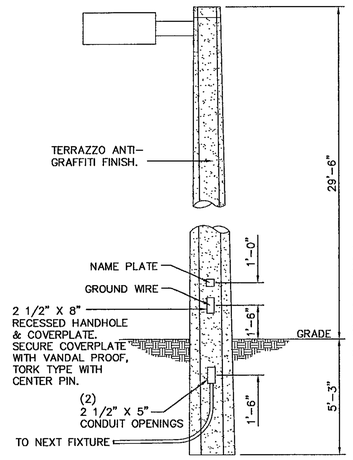


NEW RISER DIAGRAM DETAIL
SCALE: N.T.S.

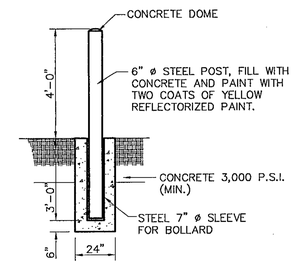


1. AUGER THE SETTING HOLE
2. SET POLE IN HOLE & PLUMB STRAIGHT
3. BACKFILL WITH REQUIRED
*MATERIAL, TAMPERING EVERY 4" TO 6"

*THE EXCAVATED MATERIALS CAN GENERALLY BE USED FOR BACKFILL. IN SOME SITUATIONS BETTER BACKFILL MAY BE REQUIRED.

COMPACTED FILL, 95% DENSITY

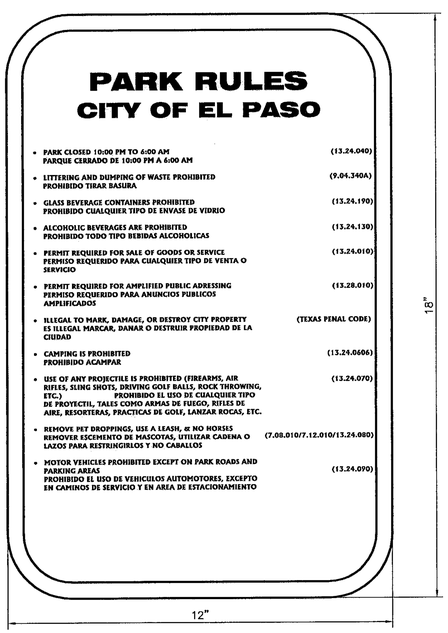
LIGHT POLE DETAIL
SCALE: N.T.S.



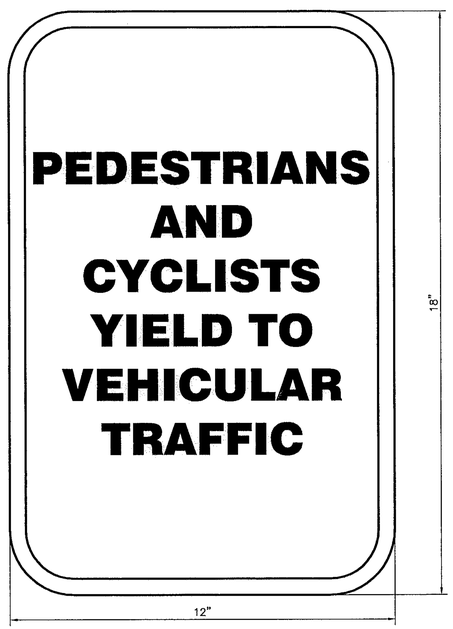
TYPICAL REMOVABLE BOLLARD POST EMBEDMENT DETAIL
SCALE: N.T.S.

SITE LIGHTING FIXTURE SCHEDULE						
SYMBOL	DESCRIPTION	MANUFACTURER NAME AND NUMBER	LAMPS	TOTAL WATTS	MOUNTING	VOLTAGE
SA	400W HPS TYPE III DISTRIBUTION, FULL CUT-OFF FIXTURE MOUNTED ON A 30' CONCRETE POLE WITH TERRAZZO FINISH	KIM 1B/ET3/400HPS120/DB-P WITH 30' CONCRETE POLE, TERRAZZO FINISH, AMERSHIELD ANTI-GRAFFITI COATING. AMERON MEO-9 CENTRECON SERIES	1-400W HPS	465	30' POLE	120

1. TRANSIENT VOLTAGE SURGE SUPPRESSOR FOR 120/240V 1ø 3W, UL 1449 CATEGORY C. LEVITON # 32120-001 OR EQUAL
2. FURNISH AND INSTALL A WEATHERPROOF 'ON-OFF' PUSHBUTTON STATION RIGIDLY MOUNTED ON FENCE UP 44" (SQ.. 'D' CLASS 9001 #SKY222, 120 V). PROVIDE A SIGN ABOVE STATION WHICH READS "PUSH ON BUTTON TO TURN ON LIGHTS. WHEN FINISHED PLAYING PUSH OFF BUTTON". AFTER BEING TURNED ON, LIGHTS WILL AUTOMATICALLY TURNOFF AFTER 60 MINUTES. SIGN TO BE PAINTED WHITE WITH 3/4" BLACK LETTERS. EACH SIGN SHALL ALSO HAVE THE COURT NUMBER ON IT, IE: TC2, BB3, ETC. CONDUIT AND WIRE BETWEEN STATION SHALL BE RUN ON THE TOP CROSS BAR OF THE FENCE.
3. METER ENCLOSURE FURNISHED AND INSTALLED BY CONTRACTOR. MOUNT METER ON NEW SERVICE RISER POLE. LABEL METER ENCLOSURE WITH PARK ADDRESS.
4. PANELBOARD, LIGHTING CONTROL ENCLOSURE AND TVSS UNIT SHALL BE MOUNTED A MINIMUM 7'-0" ABOVE GRADE AND ON NEW OVERHEAD SERVICE POLE.
5. LIGHTING CONTROL PANEL SHALL CONSIST OF THE FOLLOWING ITEMS: TYPE 3R ENCLOSURE, 1-20A, 12P, 120V LIGHTING CONTACTOR, (1)-7 DAY TIMECLOCK (PARAGON EC7004-120), MISCELLANEOUS TERMINAL BLOCKS, GROUND LUG, U.L. 508 LABEL. AREA AND PLAYGROUND FIXTURES SHALL BE CONTROLLED PHOTOCELL ON, TIMECLOCK OFF.
6. NOT USED.
7. 2#12, 1#12 GND TO 20a-1p BREAKER IN PANELBOARD.
8. 2#12, 1#12 GND SO CORD WITH 20A PLUG CAP. PLUG TO MATCH OUTLET CONFIGURATION.
9. IRRIGATION CONTROLLER SHALL BE FURNISHED AND INSTALLED BY IRRIGATION CONTRACTOR. CONTROL WIRING AND FINAL CONNECTIONS TO VALVE STATIONS SHALL BE BY THE IRRIGATION CONTRACTOR.



PARK RULES SIGN DETAIL
SCALE: N.T.S.



SAFETY CROSSING SIGN DETAIL
SCALE: N.T.S.

REFERENCES - BENCHMARKS
BENCHMARK IS SITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

cea group
engineers • architects • planners
1204 Montana Ave., El Paso, Texas 79902
Office 915.544.5232 Fax 915.544.5233
www.ceagroup.net

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

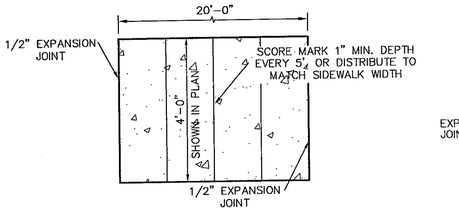
DATE: JUNE 2007
DESIGN BY: F.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2250-008

PROJECT TITLE
MESQUITE TRAILS UNIT TWO
SUBDIVISION IMPROVEMENTS

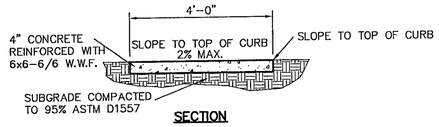
SHEET TITLE
HIKE & BIKE TRAIL DETAILS

SHEET NO.
16
OF 26

103058



PLAN

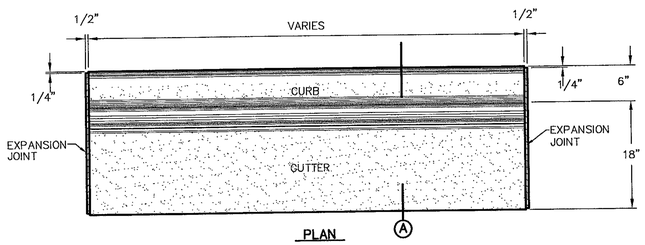


SECTION

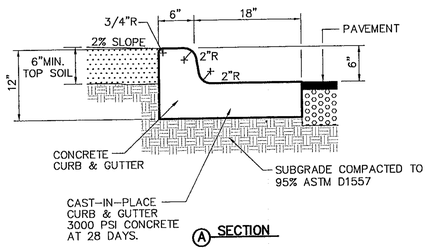
SIDEWALK NOTES:

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

1/17 SECTION-SIDEWALK/SLAB
SCALE: 1/2"=1'-0"



PLAN

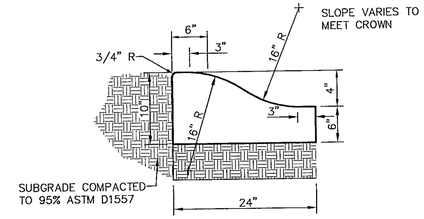


A SECTION

NOTES:

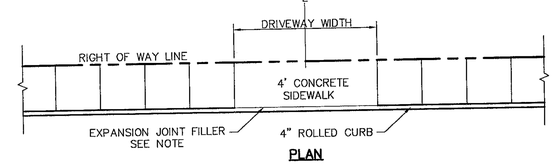
1. CONCRETE CURB, GUTTER, AND RETURNS SHALL BE 3,000 P.S.I. MIN.
2. DUMMY JOINTS REQUIRED AT 10' O.C.
3. 1/2" PREMOLDED BITUMINOUS EXPANSION JOINT (AASHTO M-33) IS REQUIRED FOR ALL CURBS RETURNS. TRIM BITUMINOUS MATERIAL 1/4" LESS THAN NEAT CURB & GUTTER DIMENSION.
4. SUBGRADE UNDER CURBS MUST BE FORMED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

2/17 CURB & GUTTER DETAIL
SCALE: 1"=1'-0"

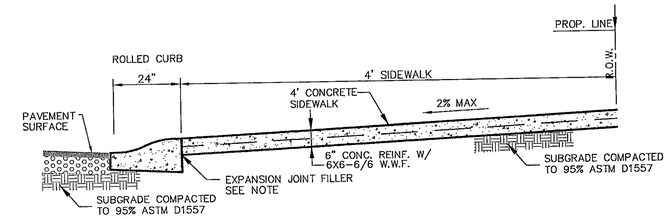


1. CONCRETE TO BE 3000 PSI MIN.
2. DUMMY JOINTS REQUIRED AT 10' O.C. FOR HEADERS AND 5' O.C. FOR SIDEWALK
3. EXPANSION MATERIAL REQUIRED AT CURB RETURNS WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
4. EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING FOR HEADERS.
5. EXPANSION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

3/17 4" CONCRETE ROLLED CURB DETAIL
SCALE: 1"=1'-0"



PLAN

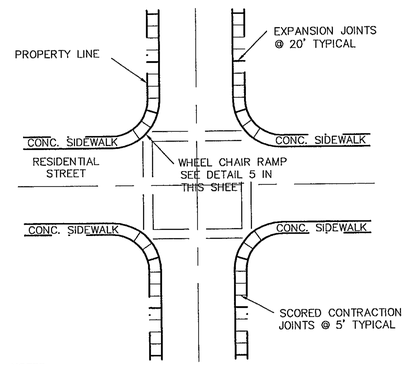


SECTION AT CENTERLINE

4/17 TYPICAL DRIVEWAY DETAIL
SCALE: N.T.S.

NOTES:

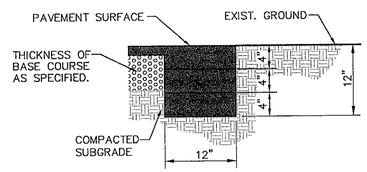
DRIVEWAY SLOPES MUST BE 10% MAX. FROM GUTTER FOR FIRST 12 FEET AND 14% MAX. THEREAFTER (DRIVEWAY SHALL BE LOCATED @ HIGH SIDE OF LOT UNLESS OTHERWISE COORDINATED WITH CITY OF EL PASO)



NOTES:

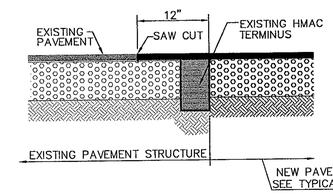
1. RAMPS MAY BE PLACED AS SUGGESTED, HOWEVER EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC., MAY AFFECT PLACEMENT.
2. THE CONCRETE SURFACE SHALL HAVE A ROUGH, NONSKID TYPE FINISH.
3. CONSTRUCTION METHODS SHALL CONFORM WITH THE CITY OF EL PASO SPECIFICATIONS.
4. ALL PARKING AND PAVEMENT MARKINGS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

6/17 WHEELCHAIR RAMP STREET PLAN
SCALE: 1" = 30'-0"

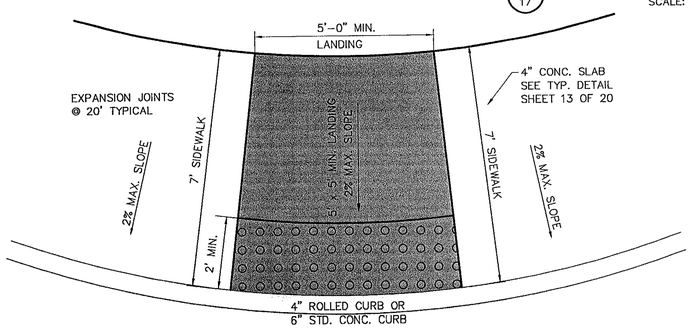


NOTE :
TERMINUS MUST BE CONSTRUCTED IN 4" LIFTS.
FINAL LIFT MUST BE PLACED WITH FINAL PAVEMENT COURSE.

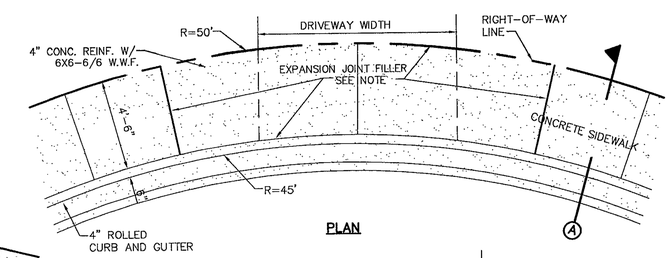
7/17 TERMINUS OF STREET
SCALE: 1"=1'-0"



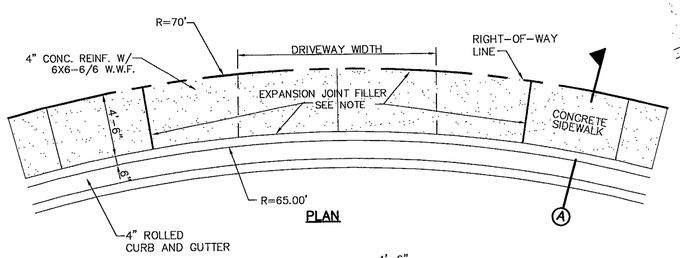
8/17 TYPICAL PAVEMENT JOINT SECTION
SCALE: N.T.S.



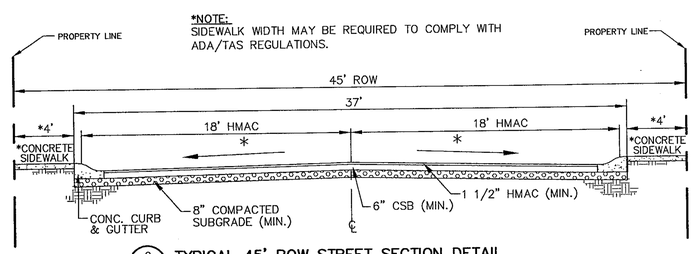
5/17 TYPICAL WHEELCHAIR RAMP DETAIL
SCALE: 1" = 2'-0"



PLAN

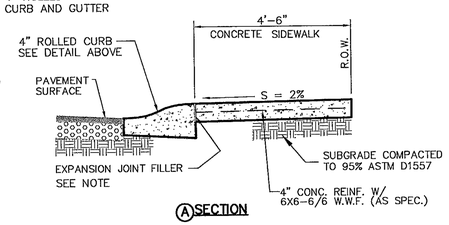


PLAN



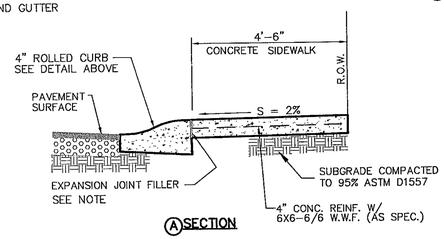
*NOTE:
SIDEWALK WIDTH MAY BE REQUIRED TO COMPLY WITH ADA/TAS REGULATIONS.

9/17 TYPICAL 45' ROW STREET SECTION DETAIL
SCALE: N.T.S.



A SECTION

10/17 HEEL (70' R) DRIVEWAY DETAIL
SCALE: NTS



A SECTION

NOTE: EXPANSION JOINT FILLER SHALL CONSIST OF 1/2" BITUMINOUS TYPE PREFORMED (AASHTO M-33)

11/17 CUL-DE-SAC (50' R) DRIVEWAY DETAIL
SCALE: N.T.S.

REFERENCES - BENCHMARKS
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

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www.ceagroup.net

ENGINEER'S SEAL
JORGE L. AZCARATE
85075
STATE OF TEXAS
7/9/07

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

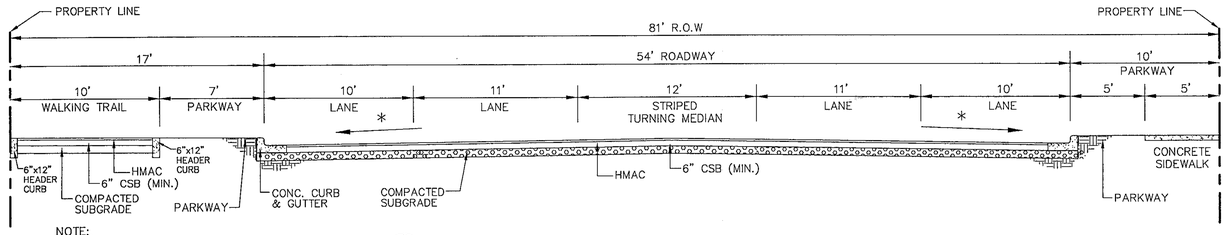
DATE: JUNE 2007
DESIGN BY: F.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2230-008

PROJECT TITLE
MESQUITE TRAILS UNIT TWO
SUBDIVISION IMPROVEMENTS

SHEET TITLE
STANDARD DETAILS
(SHEET 1 OF 3)

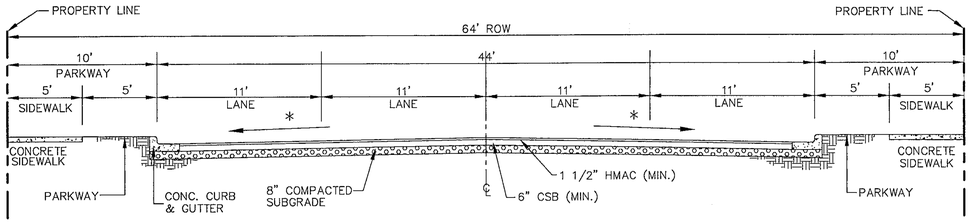
SHEET NO.
17
OF 26

103058

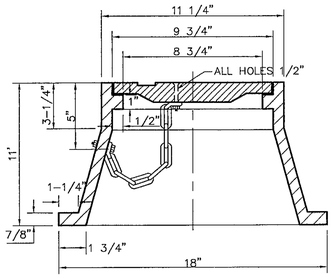


NOTE:
1 1/2" HMAC TYPE D SEAL COATED (2 COATS)
6" CSBC 100% COMPACTED AS PER ASTM D-1557
6" SCARIFIED SUBGRADE 95% COMPACTED AS PER ASTM D-1557

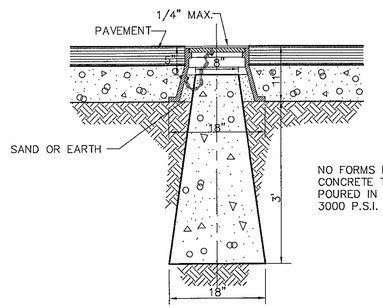
1/18 TYPICAL 81' ROW MINOR ARTERIAL STREET SECTION DETAIL
SCALE: N.T.S.



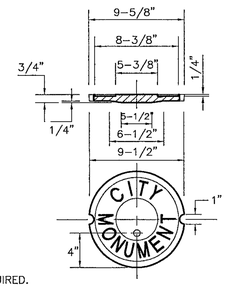
2/18 TYPICAL 64' ROW COLLECTOR ARTERIAL STREET SECTION DETAIL
SCALE: N.T.S



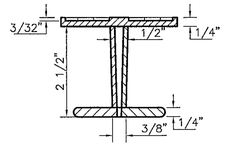
FRAME SECTION



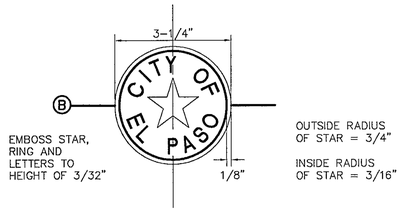
NO FORMS REQUIRED.
CONCRETE TO BE POURED IN PLACE
3000 P.S.I. CONC.



COVER

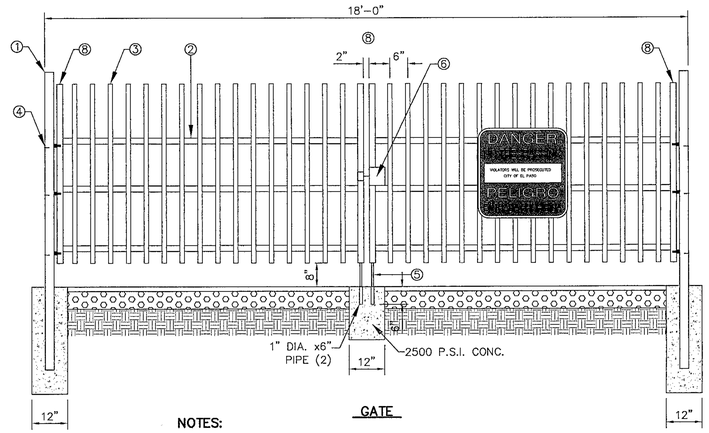


(B) SECTION

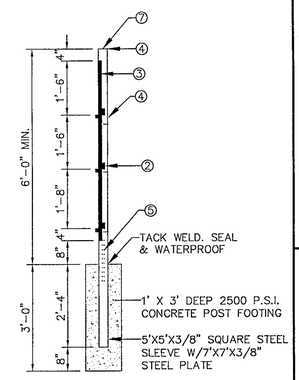


BRONZE MONUMENT CAP

4/18 CITY SURVEY MONUMENT DETAILS
SCALE: N.T.S.



GATE

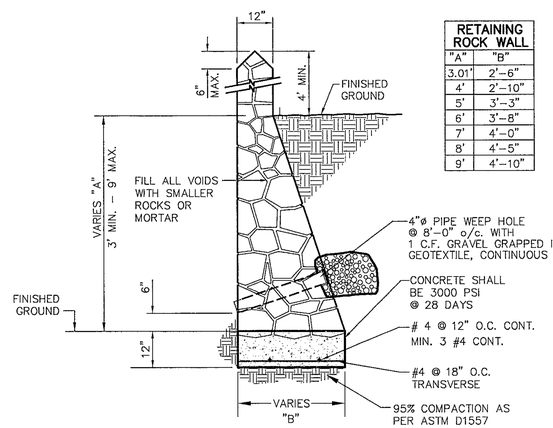


GATE POST

NOTES:

1. 3"X3"X3/16" SQUARE STEEL TUBING
2. 2"X1"X14 GA. RECTANGULAR STEEL TUBING
3. 1 1/2"X 1/2" X16 GA. RECTANGULAR STEEL TUBING
4. BOLT HOOK AND STRAP HINGE
5. CANE BOLT LATCH W/KEEPER 5-8"X18" LONG (2 REQUIRED)
6. DOUBLE GATE HEAVY DUTY INDUSTRIAL LATCH W/PAD LOCK
7. FLAT TOP POLYVINYL CAP
8. 2"X1"X10 GA. RECT. STL. TUBING

3/18 WROUGHT IRON GATE
SCALE: 1" = 2'-0"



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

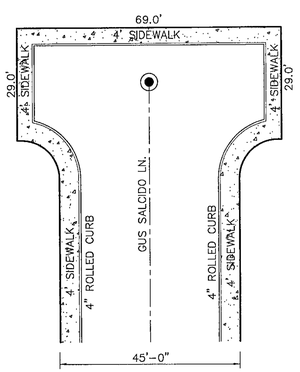
RETAINING ROCK WALL	
"A"	"B"
3.01'	2'-6"
4'	2'-10"
5'	3'-3"
6'	3'-8"
7'	4'-0"
8'	4'-5"
9'	4'-10"

ROCK WALL NOTES

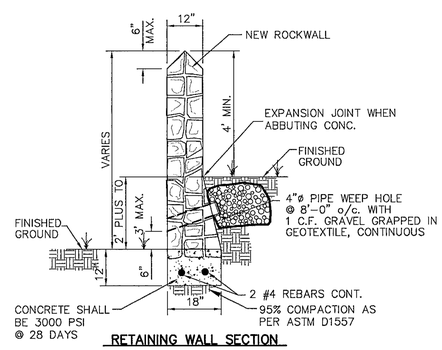
1. STONE FOR ROCKWALL SHALL BE AS NEARLY UNIFORM IN SECTIONS AS IN PRACTICABLE THE STONE SHALL BE DENSE AND RESISTANT OF AIR AND WATER
2. MORTAR MUST BE TYPE "S: 1800 P.S.I. AS PER ASTM C270
3. MASONRY WALL OVER SIX (6) FEET IN HEIGHT AND THOSE USED FOR EARTH RETENTION OVER TWO (2) FEET MUST BE DESIGNED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

NOTE: ALL ROCKWALLS AND RETAINING ROCKWALLS INDICATED "BY BUILDER" SHALL BE REQUIRED AT TIME OF BUILDING PERMIT.

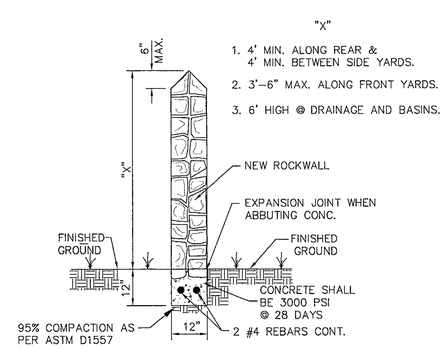
NOTE: BUILDER SHALL SUBMIT ROCKWALL AND RETAINING ROCKWALL COMPUTATIONS TO THE BUILDING SERVICES FOR APPROVAL.



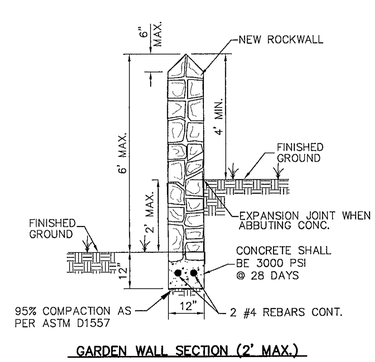
6/18 "T" CUL-D-SAC W/SIDEWALK DETAIL
SCALE: N.T.S.



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



GARDEN WALL SECTION



GARDEN WALL SECTION (2' MAX.)

5/18 TYPICAL ROCKWALL DETAILS
SCALE: 1" = 2'-0"

REFERENCES - BENCHMARKS
BENCHMARK IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

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www.ceagroup.net

ENGINEER'S/SEAL
JORGE L. AZCARATE 85075 LICENSED PROFESSIONAL ENGINEER

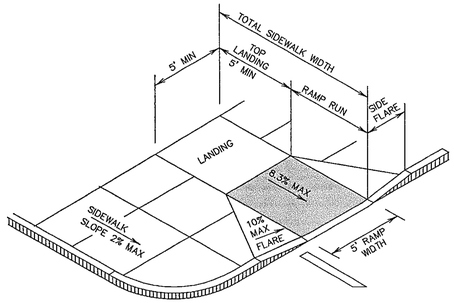
SCALE
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2007
DESIGN BY: F.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2250-008

PROJECT TITLE
MESQUITE TRAILS UNIT TWO
SUBDIVISION IMPROVEMENTS

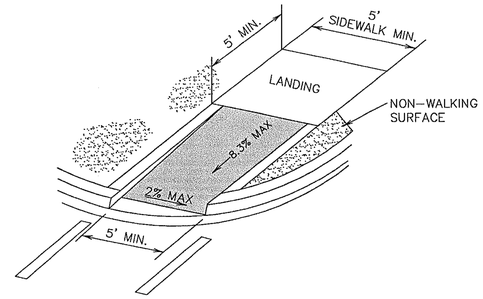
SHEET TITLE
STANDARD DETAILS
(SHEET 2 OF 3)

SHEET NO.
18
OF 26

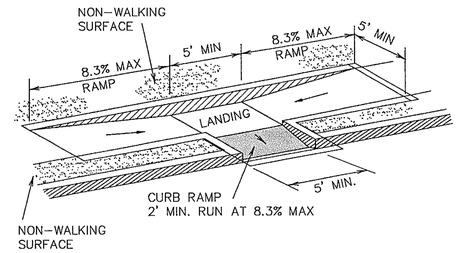
103058



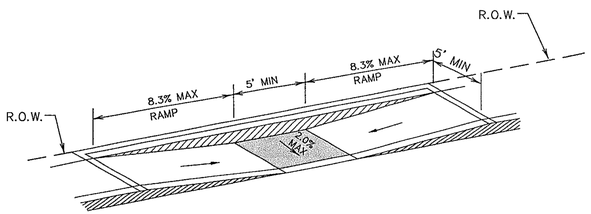
1/19 PERPENDICULAR CURB RAMP (TYPE I)
SCALE: N.T.S.



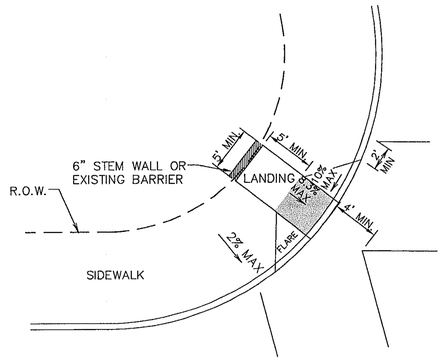
4/19 DIRECTIONAL RAMP WITHIN RADIUS (TYPE IV)
SCALE: N.T.S.



7/19 COMBINATION CURB RAMPS (TYPE VII)
SCALE: N.T.S.

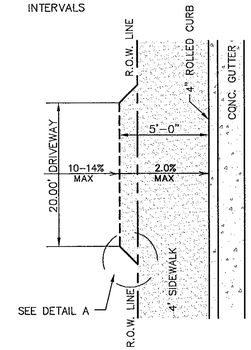


2/19 PARALLEL CURB RAMP (TYPE II)
SCALE: N.T.S.

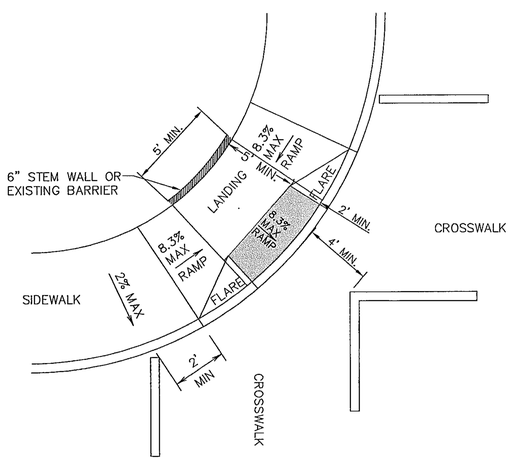


5/19 DIAGONAL CURB RAMP (FLARED SIDES) (TYPE V)
SCALE: N.T.S.

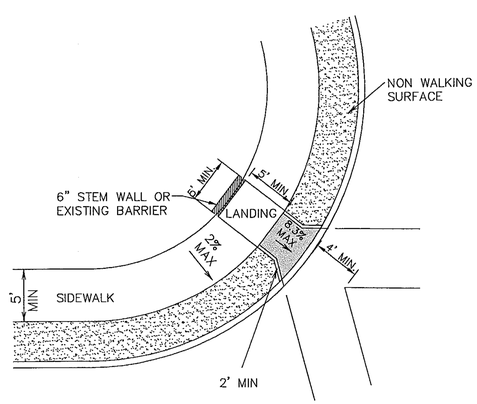
NOTE: DETAIL A
PASSING LANES AT 200' INTERVALS



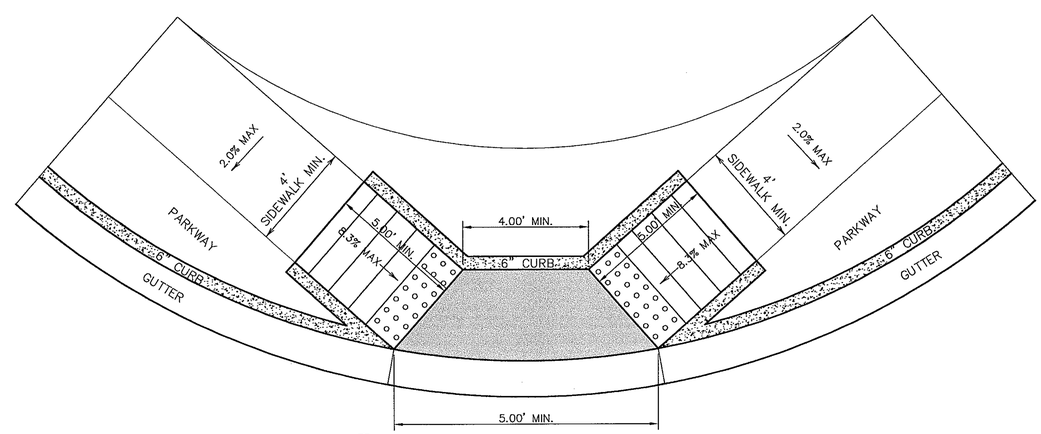
8/19 DRIVEWAY ACCESSIBLE PASSING SPACE DETAIL
SCALE: N.T.S.



3/19 DIAGONAL COMBINATION CURB RAMP (TYPE III)
SCALE: N.T.S.



6/19 DIAGONAL CURB RAMP (RETURNED CURB) (TYPE VI)
SCALE: N.T.S.



9/19 DIRECTIONAL RAMP @ INTERSECTION
SCALE: N.T.S.

GENERAL NOTES:

LEGEND

DETECTABLE WARNING SURFACE SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A NOMINAL DIAMETER OF 0.9 IN, A NOMINAL HEIGHT OF 0.2 IN AND A CENTER TO CENTER NOMINAL SPACING OF 2.35 IN, AND SHALL NOT BE STAGGERED. THE SURFACE SHALL HAVE A COLOR CONTRAST VISUALLY WITH ADJOINING SURFACES.

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

REFERENCES – BENCHMARKS
BENCHMARK IS BITY MONUMENT AT THE INTERSECTION OF EL PASO ALCORN AVENUE AND ALSOE LINDO DRIVE
ELEVATION – 4030.10 (CITY DATUM).

DATE	REVISIONS	BY

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www.ceagroup.net

ENGINEER'S SEAL
JORGE L. AZCARATE
85075
1/9/07

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

DATE: JUNE 2007
DESIGN BY: E.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPD. BY: J.L.A.
JOB No. 2250-008

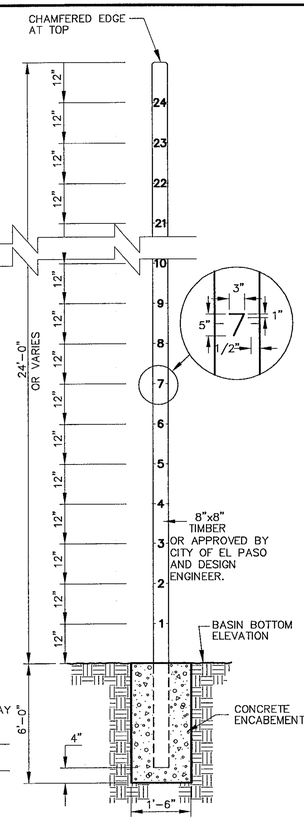
PROJECT TITLE
MESQUITE TRAILS UNIT TWO
SUBDIVISION IMPROVEMENTS

SHEET TITLE
STANDARD DETAILS
(SHEET 3 OF 3)

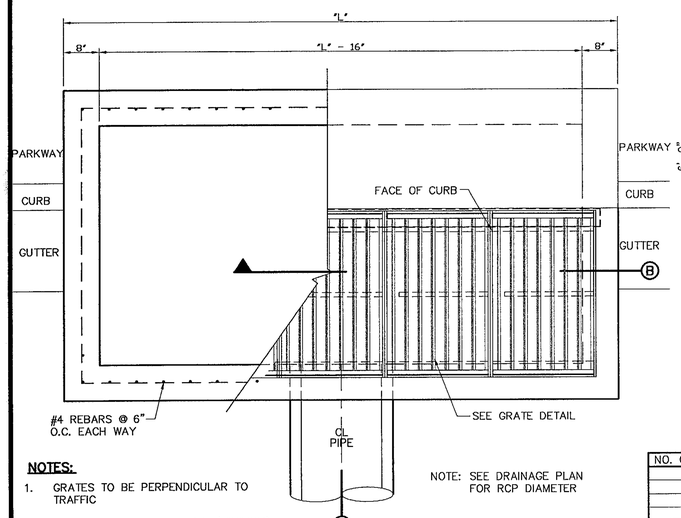
SHEET NO.
19
OF 26

103058

1/20 NO TRESPASSING WARNING SIGN
SCALE: N.T.S.



2/20 WATER DEPTH POLE DETAIL
N.T.S.



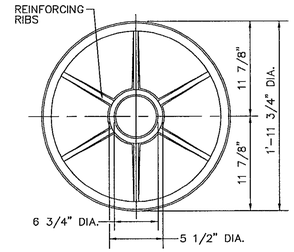
PLAN

NOTE: SEE DRAINAGE PLAN FOR RCP DIAMETER

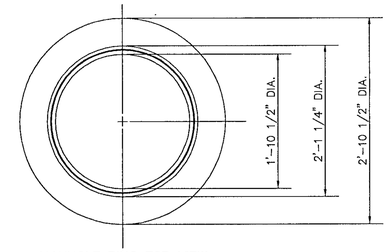
NOTES:

1. GRATES TO BE PERPENDICULAR TO TRAFFIC
2. CONCRETE TO BE 3,000 PSI (MINIMUM) CORE TEST @ 28 DAYS.
3. H=20' MAXIMUM
4. **SEE DRAINAGE PLAN FOR APPROVED PIPE DIAMETER.**

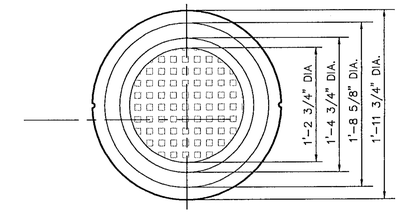
NO. GRATES	CAPACITY	"L"	BEAM LENGTH	BEAM (MIN. SIZES)
1	9.84 CFS	3'-2 5/8"	2'-10"	W6x12, S4x13, MC6x8.2
2	19.63 CFS	5'-1 1/8"	4'-7 1/8"	W6x12, S6x12.5, MC6x15.1
3	29.69 CFS	7'-0 1/4"	6'-5 1/8"	W8x15, S7x15.3, MC7x17.6
4	39.10 CFS	8'-9 7/8"	8'-3 7/8"	W9x18, S8x18.4, MC10x21.9
5	48.72 CFS	10'-8"	10'-2"	W12x16, S8x21, MC10x21.9



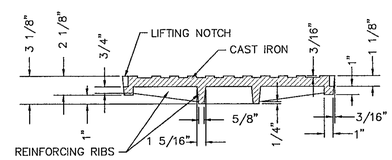
MANHOLE COVER BOTTOM VIEW
SCALE: 3/4' = 1'-0"



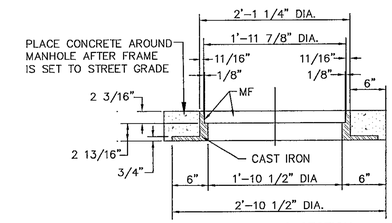
MANHOLE RING TOP VIEW
SCALE: 1" = 1'



MANHOLE COVER TOP VIEW
SCALE: 3" = 4'-0"



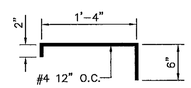
MANHOLE COVER SECTION
SCALE: 2" = 3'



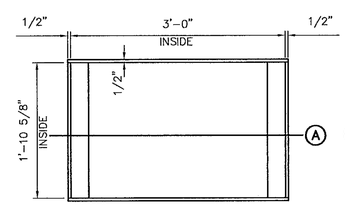
MANHOLE RING SECTION
SCALE: 1" = 1'

MANHOLE RING NOTES:
1. MATCHING SURFACES MARKED "MF" TO BE MACHINE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.

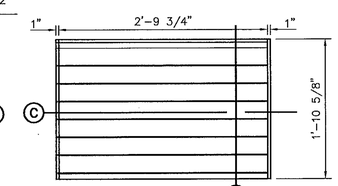
3/20 MANHOLE RING AND COVER DETAILS
SCALE: AS SHOWN



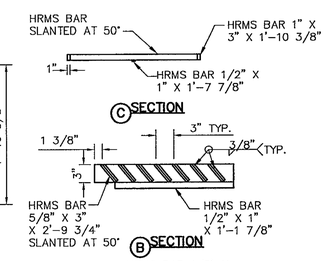
BAR "T" DETAIL
N.T.S.

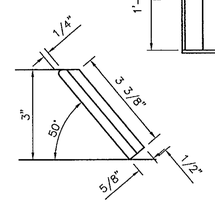


PLAN – FRAME

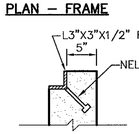


PLAN – GRATE



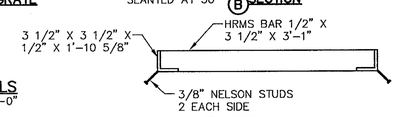


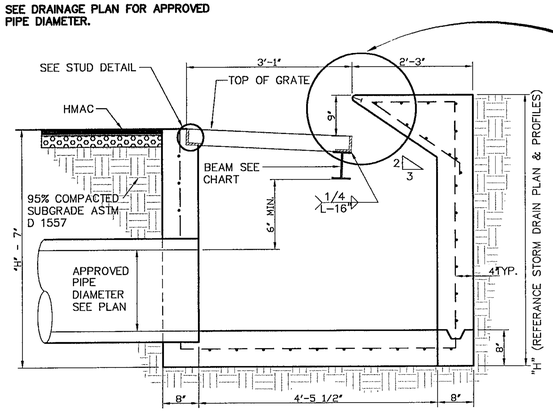
SLANTED BAR DETAIL



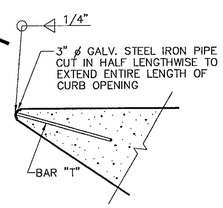
STUD DETAIL

4/20 GRATE AND FRAME DETAILS
SCALE: 1"=1'-0"

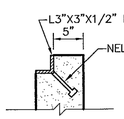




A SECTION



DETAIL
N.T.S.



STUD DETAIL
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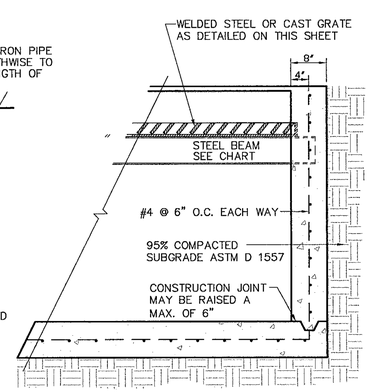

B SECTION

5/20 DROP INLET (TYPE 1) DETAILS
SCALE: 3" = 4'-0"

DROP INLET GENERAL NOTES:

1. 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 COUNTY ENGINEER.
2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS.
3. SHARP EDGES RESULTING FROM FABRICATION SHALL BE DULLED BY ANY ACCEPTABLE METHOD FOR SAFETY IN HANDLING.
4. GRATES SHALL BE INSTALLED IN FRAME WITH FLOW ARROW POINTING DOWNSTREAM OR TOWARD THE LOW POINT IN A SUMP.
5. WELDED GRATES SHALL BE STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-183 OR OF CORROSION RESISTANT STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-161 OR M-222 OR BE MADE OF OTHER APPROVED STEELS OF EQUAL QUALITY. MIXING GRADES OF STEEL ON THE SAME GRATE WILL NOT BE PERMITTED.
6. 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.
7. ALL WELDS SHALL HAVE A MINIMUM OF 1/4" FILLET AND SHALL CONFORM TO THE SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND TO THE AWS STRUCTURAL WELDING CODE. ELECTRODES SHALL BE COMPATIBLE TO THE DIFFERENT GRADES OF STEEL THAT COMPRISE THE GRATE MEMBERS.
8. CAST GRATES SHALL BE CAST STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-103, GRADE 65-35 OR OF DUCTILE IRON CONFORMING TO THE REQUIREMENTS OF ASTM A-536, SPECIAL GRADE 60-45, OR OF GRAY IRON CONFORMING TO THE REQUIREMENTS OF AASHTO M-105, CLASS 35B OR ASTM A-48 CLASS 35B. THE SPECIFICATIONS OF GENERAL APPLICATION FOR CAST STEEL GRATES SHALL BE AASHTO M-103 SCOPE 1.2.1, GRADE N-1.
9. FERROUS CASTINGS SHALL BE OF UNIFORM QUALITY, FREE OF BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTION OR OTHER DEFECTS. THEY SHALL BE SMOOTH AND WELL CLEANED BY SHOT BLASTING OR OTHER APPROVED CLEANING METHOD. AFTER CLEANING THEY SHALL BE COATED WITH ASPHALT BASE PAINT RESULTING IN A SMOOTH COATING, TOUGH AND TENACIOUS WHEN COLD, NOT TACKY OR BRITTLE.
10. ALL CASTING SHALL BE MANUFACTURED TRUE TO PATTERN. COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER.
11. ALL CONCRETE TO BE 3000 PSI. CHAMFER ALL EXPOSED EDGES 3/4". ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
12. MINIMUM CONCRETE COVER SHALL BE 1 1/2" FOR STEEL REINFORCING.
13. EXPANSION MATERIAL TO BE 1/2" BITUMINOUS FIBER AND PLACED WHERE PROPOSED CONCRETE COMES IN CONTACT WITH ANY EXISTING OR PROPOSED CONCRETE OR MASONRY STRUCTURE.
14. STRUCTURAL STEEL SHALL BE SHOP PAINTED IN ACCORDANCE WITH TxDOT. ITEM 446 "PAINT AND PAINTING"
15. SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM IN SLOPE AND GRADE TO EXISTING OR PROPOSED CURB AND WALK ADJACENT TO INLETS.
16. GRATES WILL BE DEPRESSED 1" BELOW PROPOSED OR EXISTING GRADE.
17. ALL REINFORCING BARS TO BE #4 BARS AT 6" O.C. GRADE 60. BEND BARS AROUND PIPE OPENINGS.
18. INLETS TO BE DESIGNATED IN PLANS BY NUMBER OF GRATES REQUIRED.
19. LOCATION OF SEWER PIPES SHOWN ELSEWHERE IN PLANS.
20. TWO 1/2"øX4" LONG CONCRETE ANCHOR STUDS REQUIRED FOR EACH SIDE OF FRAME, WHERE RESTING ON CONCRETE, USE NELSON STUDS OR EQUAL.
21. THE GRATES OF ALL INLETS WITHIN THE STREET PAVEMENT MUST BE CONSTRUCTED WITH THE GRATE BARS PERPENDICULAR TO THE CURB.

REFERENCES – BENCHMARKS
BENCHMARK IS STY MONUMENT AT THE INTERSECTION OF EL PASO ALERE CIRCLE AND PASOE LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

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ENGINEER'S SEAL
STATE OF TEXAS
JORGE L. ACEVEDO
85075
LICENSED PROFESSIONAL ENGINEER
7/31/07

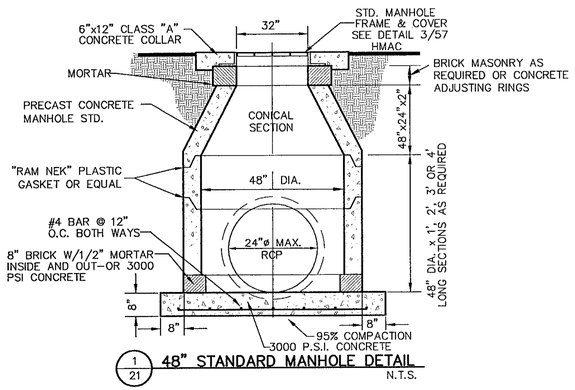
SCALE
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2007
DESIGN BY: F.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPV'D. BY: J.L.A.
JOB No. 2250-008

PROJECT TITLE
MESQUITE TRAILS UNIT TWO SUBDIVISION IMPROVEMENTS

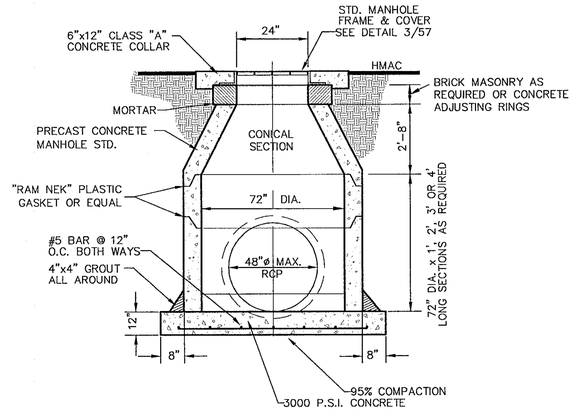
SHEET TITLE
DRAINAGE DETAILS
(SHEET 1 OF 2)

SHEET NO.
20
OF 26

103058

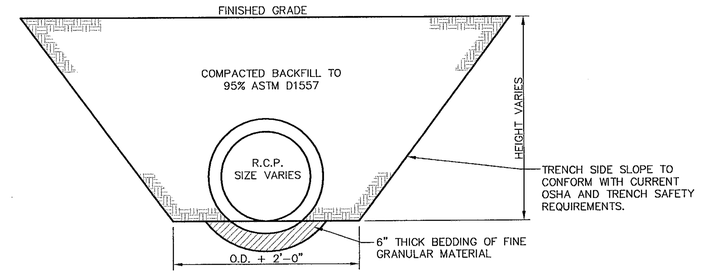


1/21 48" STANDARD MANHOLE DETAIL
N.T.S.

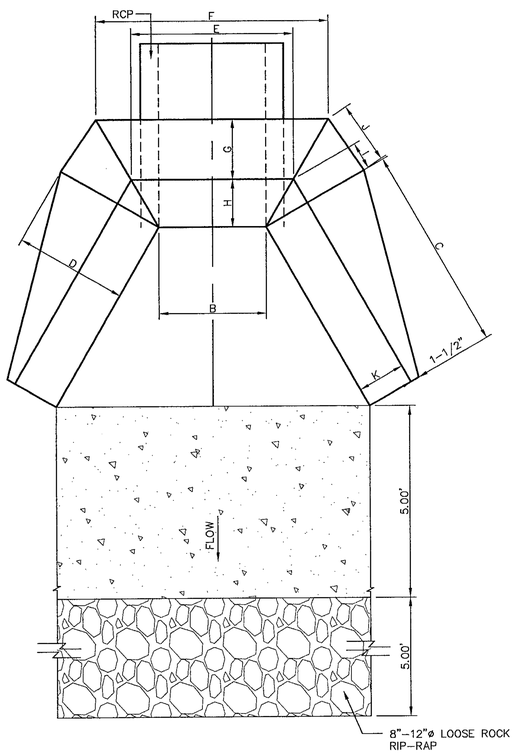


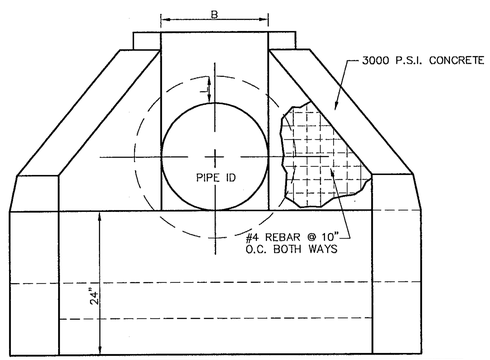
2/21 72" STANDARD MANHOLE DETAIL
N.T.S.

NOTE: 95% COMPACTION AS PER ASTM D-1557 UNDER ALL CONCRETE STRUCTURES.

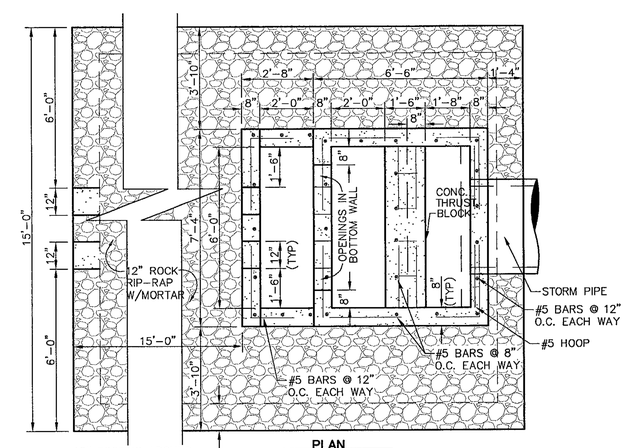


3/21 STORM SEWER BEDDING DETAIL
SCALE: 1/2" = 1'-0"



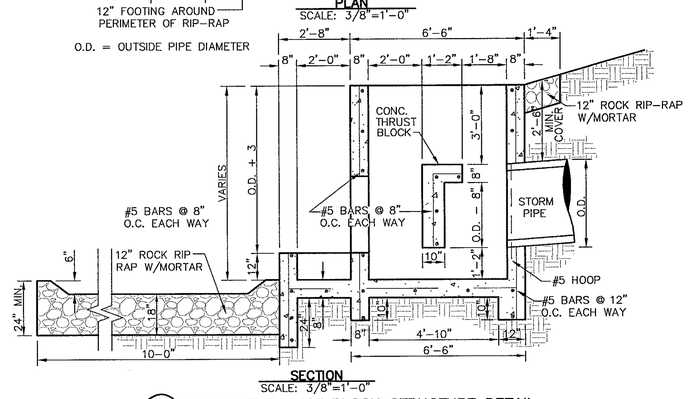


PIPE I.D.	A	B	C	D	E	F	G	H	I	J	K	L	M	N
18"	18"	30"	34 3/8"	19"	27"	40"	11"	8"	4 1/2"	10 1/2"	8"	2 1/2"	24"	3"
24"	24"	36'	41 3/8"	19"	34"	46"	11"	8"	4 1/2"	11"	8"	3"	30"	3"
30"	30"	42"	48 1/2"	20"	41"	54"	12"	8"	5"	11 1/2"	8"	3 1/2"	36"	3"
36"	36"	48"	55 1/2"	20 5/8"	48"	60"	11 5/8"	9"	5 1/4"	12"	9"	4"	42"	3 1/2"
42'	42'	54"	62 1/2"	25"	55"	72"	15"	10"	5 1/2"	13"	10"	4 1/2"	48"	3 1/2"
48"	48"	60"	69 1/2"	25"	62"	78"	15"	10"	5 3/4"	14 1/2"	10"	5"	54"	4"
54"	54"	66"	76 1/2"	25"	69"	84"	15"	10"	6"	15 3/4"	10"	5 1/2"	60"	4 1/2"



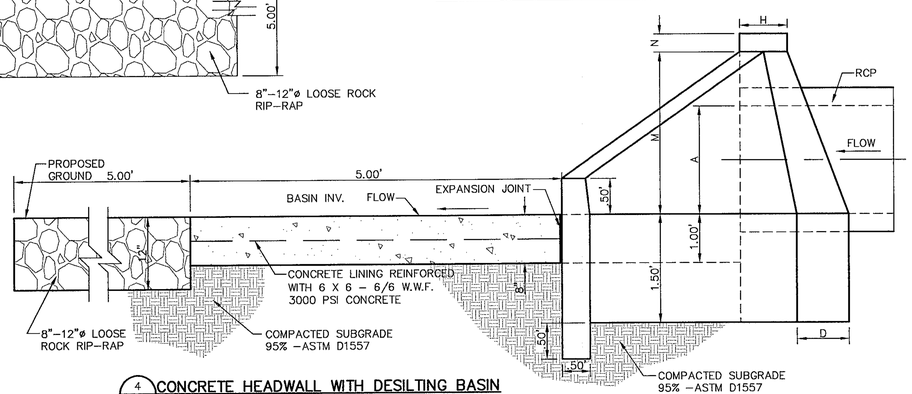
O.D. = OUTSIDE PIPE DIAMETER

PLAN
SCALE: 3/8"=1'-0"



SECTION
SCALE: 3/8"=1'-0"

5/21 CONCRETE THRUST BLOCK STRUCTURE DETAIL
SCALE AS SHOWN



4/21 CONCRETE HEADWALL WITH DESILTING BASIN
SCALE: 1"=1'

REFERENCES – BENCHMARKS
BENCHMARK: IS CITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

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ENGINEER'S SEAL
STATE OF TEXAS
JORGE L. LAZCANO
85075
REGISTERED PROFESSIONAL ENGINEER
5/15/07

SCALE
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2007
DESIGN BY: F.Z.
DRAWN BY: A.B.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2250-008

PROJECT TITLE
MESQUITE TRAILS UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE
DRAINAGE DETAILS
(SHEET 2 OF 2)

SHEET NO.
21
OF 26

103058

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543–5720
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SBC	(800) 545–6005
AT&T	(800) 852–3786
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STREET DEPT. – SIGNAL & SIGN (AFTER HOURS)	(915) 621–6750 (915) 240–3220

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CALL
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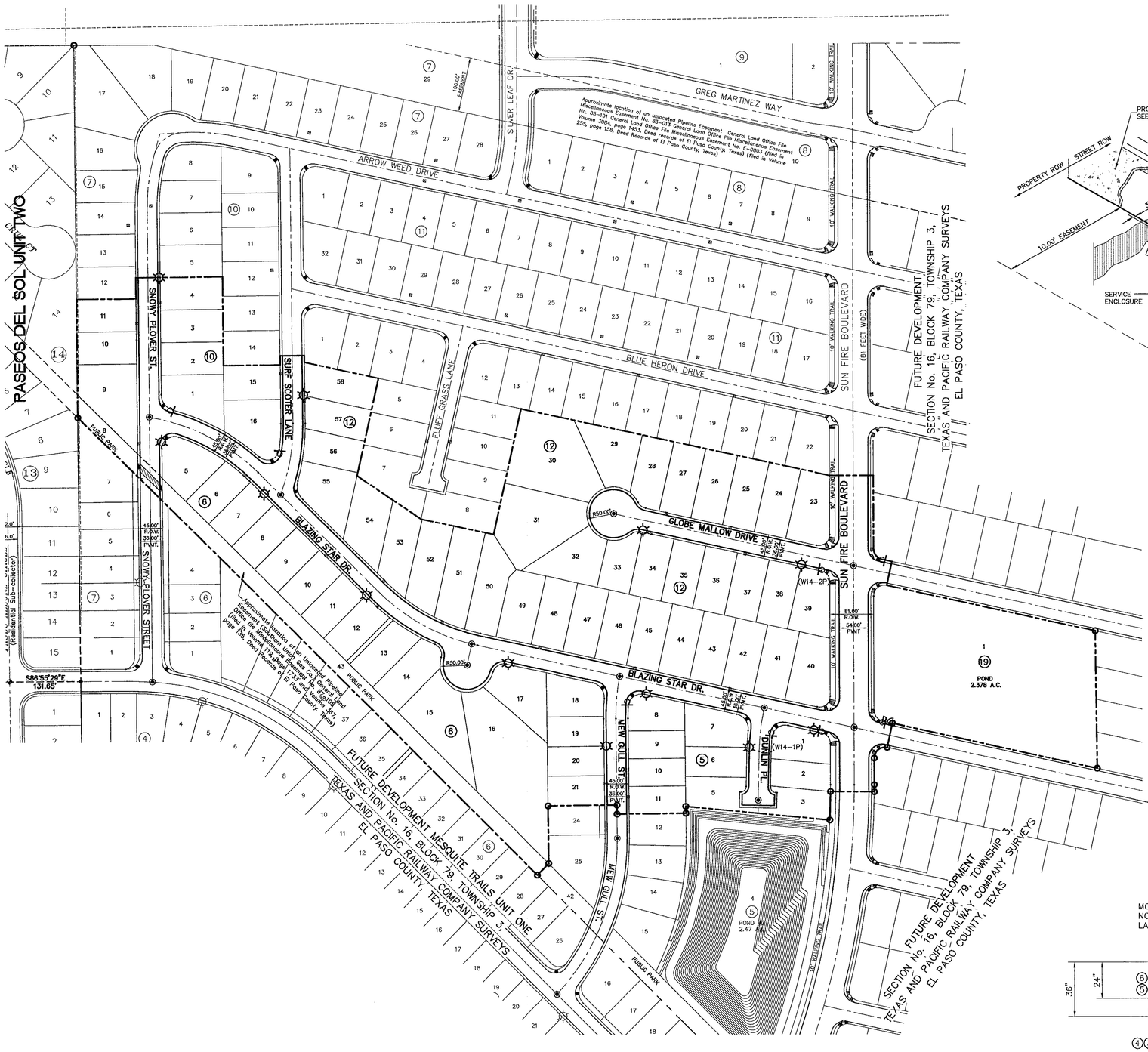
1–800–344–8377
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES – BENCHMARKS
BENCHMARK 16, CITY MONUMENT AT THE INTERSECTION OF GREG MARTINEZ AND ARROW WEED DRIVE
ELEVATION = 4003.10 (CITY DATUM).

DATE	REVISIONS	BY

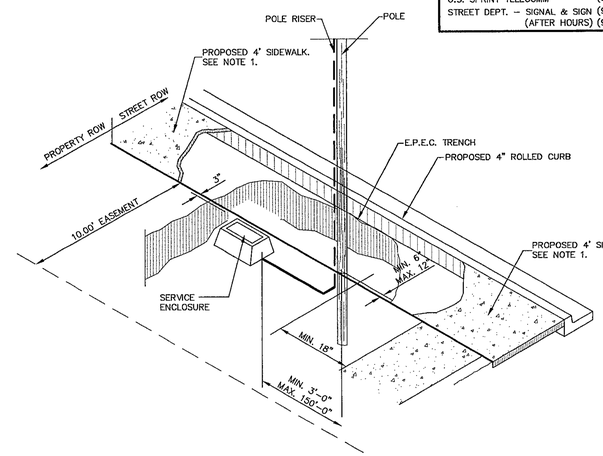
LEGEND:

- PROPOSED RESIDENTIAL STREET LIGHT
- PROPOSED 9" STREET NAME AND 30" STOP SIGN
- PROPOSED 9" STREET NAME SIGN (TWO SIGNS)
- PROPOSED N.D.B.C.U. MAIL BOX

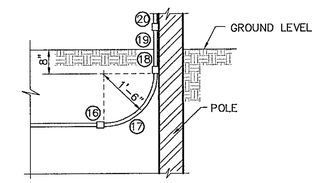


ILLUMINATION AND SIGNAGE PLAN

SCALE: 1" = 100'



POLE LOCATION DETAIL
SCALE: 1" = 5'-0"



POLE RISER DETAIL
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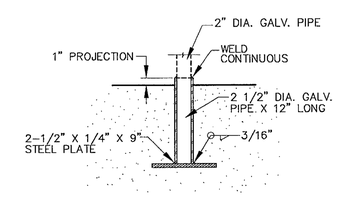

POST SLEEVE DETAIL
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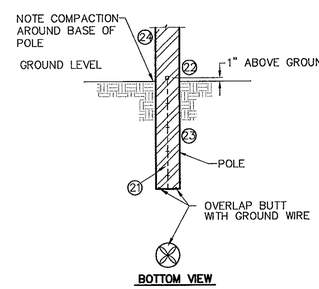

(BUTT GROUNDING) DISTRIBUTION DETAIL
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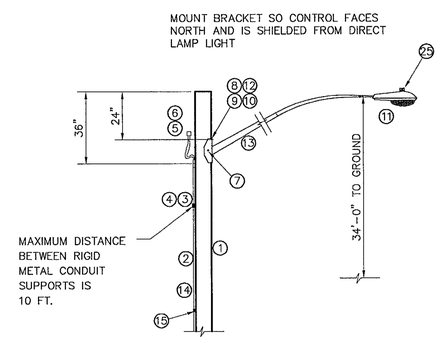

STREET LIGHT DETAIL
SCALE: 1"=3'-0"

ITEM	QTY.	DESCRIPTION
1	1	POLE, PENTA TREATED PINE 40' CLASS III
2	27	1/2" RIGID GALVANIZED STEEL CONDUIT
3	4	TWO HOLE STEEL PIPE STRAP FOR 1/2" CONDUIT
4	8	1/4" x 1" LAG BOLT
5	1	PHOTO CELL RECEPTACLE WITH 1/2" THREADED BASE AND MOUNTING BRACKET
6	1	PHOTO CELL 240V.
7	4	1/2" x 4" LAG BOLT
8	1	WASHER, SQ. GALV. 2–1/4" x 2–1/4"
9	1	MACHINE BOLT 5/8" x 8"
10	1	LOCKNUT 5/8"
11	1	LUMINARE 100W H.P.S.
12	1	WASHER, COIL SPRING 5/8"
13	1	STEEL LUMINAIRE SUPPORT (10' OR 8') UNION METAL MANUF. CO. DESIGN 348 OR EQUIVALENT
14		2 – #12 COPPER WIRES WITH THW INSULATION
15	1	GROUND CLAMP FOR 1/2" RIGID CONDUIT
16	1	1/2" SCHEDULE 40 PVC COUPLING
17	1	1/2" SCHEDULE 40 PVC 18" RADIAL BEND
18	1	1/2" SCHEDULE 40 PVC FEMALE ADAPTER
*19	1	1/2" x 8" PVC COATED RIGID STEEL CONDUIT NIPPLE
*20	1	1/2" PVC COATED RIGID STEEL COUPLING
21		COPPER WIRE, #6 BARE SOLID HARD DRAWN
22		ALUMINUM WIRE, #4 BARE SOLID HARD DRAWN
23	1/2#	STAPLE, GALV. 1–1/2" NO. 9
24	1	SPLICE, #4 SOLID ALUM. TO #6 SOLID CU.
25	1	PHOTOCELL, 240V

* MUST MEET OCCIDENTAL COATING CO. SPECS.

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SCALE Horizontal:	1"=100'
Vertical:	N/A
Contour Interval:	N/A
DATE:	JUNE 2007
DESIGN BY:	F.Z.
DRAWN BY:	A.B.
CHKD. BY:	J.L.A.
APPV'D. BY:	J.L.A.
JOB No.	2250–008

PROJECT TITLE

MESQUITE TRAILS UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE

ILLUMINATION PLAN

SHEET NO.

22

OF 26

103058

LEGEND:

- NEW RETAINING ROCKWALL (2'-3' IN HEIGHT)
- NEW RETAINING ROCKWALL (3'-9' IN HEIGHT)
- 3" THICK COMPACTED SCREENING

NOTE:

15' WIDE POND ACCESS RAMP SHALL HAVE A MINIMUM P.I. OF 8 WITH NO LOOSE MATERIAL AND A MINIMUM 90% COMPACTION PER ASTM-D1557.

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EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5527
PASEO DEL ESTE MUD NO. 1	(915) 852-3557
MCI SURVEILLANCE	(800) MCI-WORK
PARAGON CABLE	(915) 772-1123
TEXAS GAS CO.	(915) 544-6300
SOUTHWESTERN BELL TELEPHONE	(800) 828-5127
AT&T	(800) 852-3786
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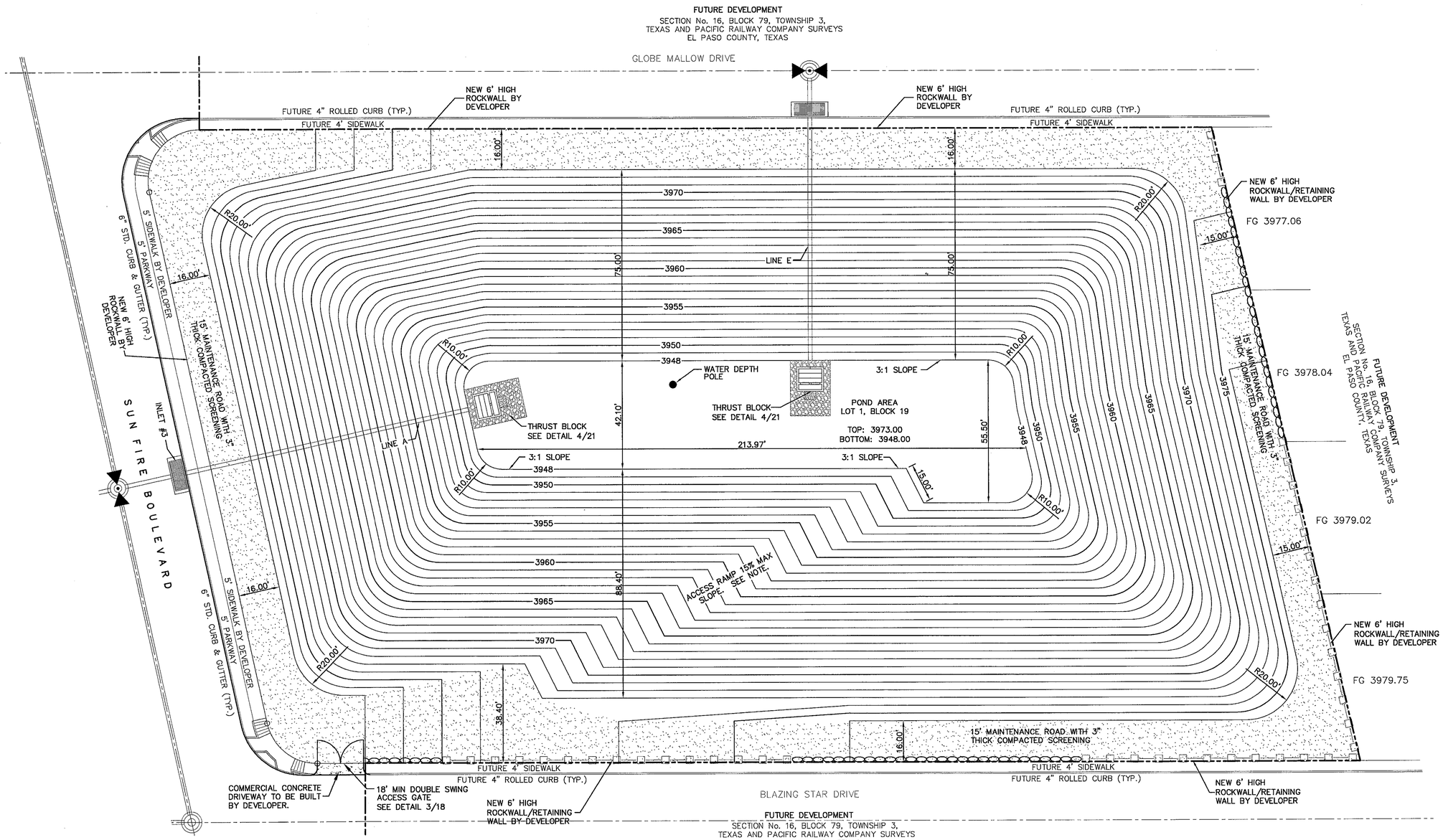

POND DESIGN PLAN

SCALE: 1" = 20'

REFERENCES - BENCHMARKS

BENCHMARK IS SITY MONUMENT AT THE INTERSECTION OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

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ENGINEER'S SEAL

JORGE L. ACOSTA
85075
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS

SCALE
Horizontal: 1"=20'
Vertical: N/A
Contour Interval: N/A

DATE: JUNE 2007
DESIGN BY: F.Z.
DRAWN BY: F.Z.
CHKD BY: J.L.A.
APPD. BY: J.L.A.
JOB No. 2250-008

PROJECT TITLE

MESQUITE TRAILS UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE

POND DESIGN PLAN

SHEET NO.

23

OF 26

103058

SITE DESCRIPTION

PROJECT NAME AND LIMITS: MESQUITE TRAILS UNIT TWO
THE PROJECT IS BORDERED BY PASEOS DEL SOL UNIT TWO TO THE WEST, AND PORTION OF SECTION 16, BLOCK 79, TOWNSHIP 3, T&P R.R Co. SURVEYS TO THE NORTH, EAST AND SOUTH, AND IT IS ALL A PORTION OF SECTION 16, BLOCK 79, TOWNSHIP 3, T&P R.R Co. SURVEYS

PROJECT DESCRIPTION: THE SITE FOR THE NEW SUBDIVISION WILL ENCOMPASS APPROXIMATELY 21.307± ACRES, AND WILL CONTAIN 166 RESIDENTIAL LOTS, AND 1 PONDING AREA. PROJECT IMPROVEMENTS SHALL CONSIST OF GRADING AND PAVING.

EXISTING CONDITIONS: THE SITE IS CLEAR OF SITE IMPROVEMENTS AND IS COVERED WITH ITS NATURAL SURROUNDINGS.

MAJOR SOIL DISTURBING ACTIVITIES: MAJOR SOIL DISTURBING ACTIVITIES WILL CONSIST OF CLEARING AND GRUBBING, GRADING FOR BUILDING PAD ELEVATIONS, CONSTRUCTION OF STREETS AND EXCAVATION FOR UTILITIES.

TOTAL PROJECT AREA: 21.307± ac.

TOTAL AREA TO BE DISTURBED: 21.307± ac.

WEIGHTED RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 0.535

EXISTING CONDITION OF SOIL AND VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER: THE PROJECT SITE IS LOCATED IN THE VICINITY OF THE HUECO–WINK ASSOCIATION. THE SOILS IN THESE AREA ARE GENERALLY DESCRIBED AS NEARLY LEVEL AND GENTLY SLOPING SOILS THAT HAVE A FINE SANDY LOAM SUBSOIL AND ARE MODERATELY DEEP OVER CALICHE; IN THE HUECO BOLSON.

NAME OF RECEIVING WATERS: STORM RUNOFF FROM THE NEW SUBDIVISION WILL BE DISCHARGED INTO A NEW RETENTION BASIN.

EROSION AND SEDIMENT CONTROL

SOIL STABILIZATION PRACTICES

- ____ TEMPORARY SEEDING
- X PERMANENT PLANTING, SODDING, OR SEEDING
- ____ MULCHING
- ____ SOIL RETENTION BLANKET
- ____ BUFFER ZONES
- ____ PRESERVATION OF NATURAL RESOURCES

OTHER:

STRUCTURAL PRACTICES:

- X SILT FENCES
- X HAY BALES
- ____ ROCK BERMS
- ____ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- ____ DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
- ____ DIVERSION DIKE AND SWALE COMBINATION
- ____ PIPE SLOPE DRAINS
- ____ CONCRETE FLUMES
- ____ ROCK BEDDING AT CONSTRUCTION EXIT
- ____ TIMBER MATTING AT CONSTRUCTION EXIT
- ____ CHANNEL LINERS
- ____ SEDIMENT TRAPS
- ____ SEDIMENT BASINS
- ____ STORM INLET SEDIMENT TRAP
- ____ STONE OUTLET STRUCTURES
- X CURBS AND GUTTERS
- X STORM DRAINS
- X VELOCITY CONTROL DEVICES
- ____ VEGETATED SWALES & NATURAL DEPRESSIONS

OTHER:

NARRATIVE – SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:

1. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS (e.g. SILT FENCE AND/OR EARTHERN BERM, AND STABILIZED CONSTRUCTION ENTRANCE) ;
2. PERFORM CLEARING AND GRUBBING;
3. EXCAVATION FOR UTILITIES;
4. COMPLETE STREET AND LOT GRADING;
5. CONSTRUCTION OF SUBDIVISION IMPROVEMENTS; AND,
6. WHEN ALL CONSTRUCTION ACTIVITY RELATED IN DEVELOPMENT OF THE SITE IS COMPLETE, REMOVE TEMPORARY CONTROLS IN 1. ABOVE.

SWPPP GENERAL NOTES:

1. PLACEMENT OF SILT FENCE SHALL BE ADJUSTED AS NECESSARY TO PREVENT THE BLOCKING OF DRIVEWAYS OR DRIVING LANES.
2. THE SWPPP MANUAL IDENTIFIES THE DUTIES AND RESPONSIBILITIES OF THE GENERAL CONTRACTOR IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. THIS ITEM SHALL BE SUBSIDIARY TO THE SWPP BEST MANAGEMENT PRACTICES (COMPLETE IN PLACE) ITEMS. THE SWPPP PROJECT MANUAL IS AVAILABLE FOR REVIEWING AT THE CITY OF EL PASO – ENGINEERING DEPARTMENT. UPON SELECTION, THE CONTRACTOR WILL BE PROVIDED AN SWPPP MANUAL. THE CONTRACTOR SHALL MAINTAIN THIS MANUAL AT THE CONSTRUCTION SITE AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD.
3. THE CONTRACTOR SHALL COMPLETE AND SUBMIT ALL REGULATORY FORMS AND APPLICATIONS, AS PROVIDED IN THE SWPPP MANUAL, INCLUDING, BUT NOT LIMITED TO; NOI, NOT, SDPCP, AND ANY OTHER FORM REQUIRED BY THE CITY OF EL PASO AND TCEQ.
4. ALLOWABLE STORM WATER AND NON–STORMWATER DISCHARGE SHALL COMPLY WITH 15.20.080 (GENERAL PROHIBITION) AND 15.20.090 (SPECIFIC PROHIBITIONS AND REQUIREMENTS) OF THE CITY OF EL PASO STORM DRAIN POLLUTION CONTROL PLAN ORDINANCE. NON–STORMWATER DISCHARGES MAY CONSIST OF, BUT ARE NOT LIMITED TO, THE DISCHARGE RESULTING FROM FIREFIGHTING, LAWN WATERING, LANDSCAPE IRRIGATION, NATURAL SPRING, AND/OR AGRICULTURAL STORM WATER RUNOFF.
5. REFER TO DRAINAGE PLAN SHEET 4, FOR ADDITIONAL INFORMATION ON WATERSHED AREAS AND RUNOFF QUANTITIES (Q).
6. THE FOLLOWING HAVE BEEN IDENTIFIED AS POTENTIAL CONTAMINATION SOURCES: CLEARED AND GRADED AREAS; CONSTRUCTION SITE ENTRANCE AND ASPHALT PARKING AREA CONSTRUCTION; ASPHALT LOADING/UNLOADING AREAS; CONCRETE LOADING/UNLOADING AREAS; AND, ALL UNDISTURBED AREAS.
7. THE FOLLOWING IS A LIST OF POTENTIAL CONSTRUCTION SITE STORM WATER POLLUTANTS: ASPHALT; CONCRETE; GLUE/ADHESIVE; PAINTS; CURING COMPOUNDS; WASTEWATER FROM CONSTRUCTION EQUIPMENT WASHING; HYDRAULIC OIL/FLUIDS; GASOLINE; DIESEL FUEL; KEROSENE; ANTIFREEZE/COOLANT; AND EROSION.

BEST MANAGEMENT PRACTICES CONTROLS

I. WASTE MATERIALS:

ALL WASTE MATERIALS, INCLUDING CONSTRUCTION DEBRIS, SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ON SITE. THE TRANSIT DUMPSTER SHALL COMPLY WITH ORDINANCE 18.52.010 (ENCLOSURE AND REMOVAL OF WASTE MATERIALS DURING CONSTRUCTION). THE DUMPSTER SHALL BE EMPTIED AS NECESSARY OR AS REQUIRED BY ORDINANCE 9.04 (SOLID WASTE MANAGEMENT) AND THE TRASH SHALL BE HAULED TO A LICENSED LANDFILL.

II. HAZARDOUS WASTE:

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES SHALL BE CONSIDERED HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SPILL STABILIZATION, CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION AND CONTACT THE FIRE DEPT. AND TCEQ.

III. SANITARY WASTE:

ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY OR AS REQUIRED, CHAPTER 18.08 (BUILDING CODE), BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

IV. SPILL PREVENTION:

THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURES OF MATERIALS TO STORM WATER RUNOFF.

V. GOOD HOUSEKEEPING:

A. STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB
B. NEATLY STORE MATERIALS ON–SITE IN AN ORDERLY MANNER
C. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER
D. DO NOT MIX SUBSTANCES WITH ONE ANOTHER, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER
E. USE ENTIRE CONTENTS OF A PRODUCT BEFORE DISPOSING THE CONTAINER
F. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL

VI. HAZARDOUS PRODUCTS:

PRACTICES USED TO REDUCE RISKS:

A. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER IF AT ALL POSSIBLE
B. RETAIN ORIGINAL LABELS, PRODUCT INFORMATION AND MATERIAL SAFETY DATA SHEETS (MSDS)
C. DISPOSE SURPLUS PRODUCT IN ACCORDANCE WITH MANUFACTURER'S OR LOCAL & STATE RECOMMENDED METHODS

VII. PETROLEUM PRODUCTS:

ALL ON–SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON–SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

VIII. SPILL CONTROL PRACTICES:

A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES:
B. MATERIALS AND EQUIPMENT NECESSARY FOR CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON–SITE:
C. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY
D. SPILL AREA SHALL BE WELL VENTILATED AND APPROPRIATE CLOTHING WILL BE WORN:
E. ANY SPILL SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL AGENCY
F. MEASURES SHALL BE TAKEN TO PREVENT A SPILL FROM REOCCURRING

IX. MAINTENANCE AND INSPECTION PROCEDURES:

ALL POLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST ONCE A MONTH OR WITHIN 24–HOURS PRIOR TO ANTICIPATED STORM EVENT AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR MORE. INSPECTION IN FINAL STABILIZED AREAS OR DURING ARID PERIODS WILL BE CONDUCTED MONTHLY, BEST MANAGEMENT PRACTICES AND POLLUTION CONTROL PROCEDURES SHALL BE INSPECTED FOR ADEQUACY.

X. REMARKS:

DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEANED AS SOON AS PRACTICABLE OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.

XI. OFFSITE VEHICLE TRACKING:

IN ADDITION TO THE STABILIZED CONSTRUCTION ENTRANCES, THE FOLLOWING MEASURES SHALL BE OBSERVED DURING CONSTRUCTION:
– HAUL ROADS SHALL BE DAMPENED FOR DUST CONTROL
– LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPAULIN
– EXCESS DIRT ON ROAD SHALL BE REMOVED IMMEDIATELY
– STABILIZED CONSTRUCTION ENTRANCE
– OTHER:

SDPCP #: ___–_____
SDPCP DATE: ___–___–___

REFERENCES – BENCHMARKS
BENCHMARK IS SITY MONUMENT AT THE INTERSECTION OF EL PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

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ENGINEER'S SEAL
JORGE L. ACARATE 85075 LICENSED TEXAS PROFESSIONAL ENGINEER 4/9/07

SCALE
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2007
DESIGN BY: F.Z.
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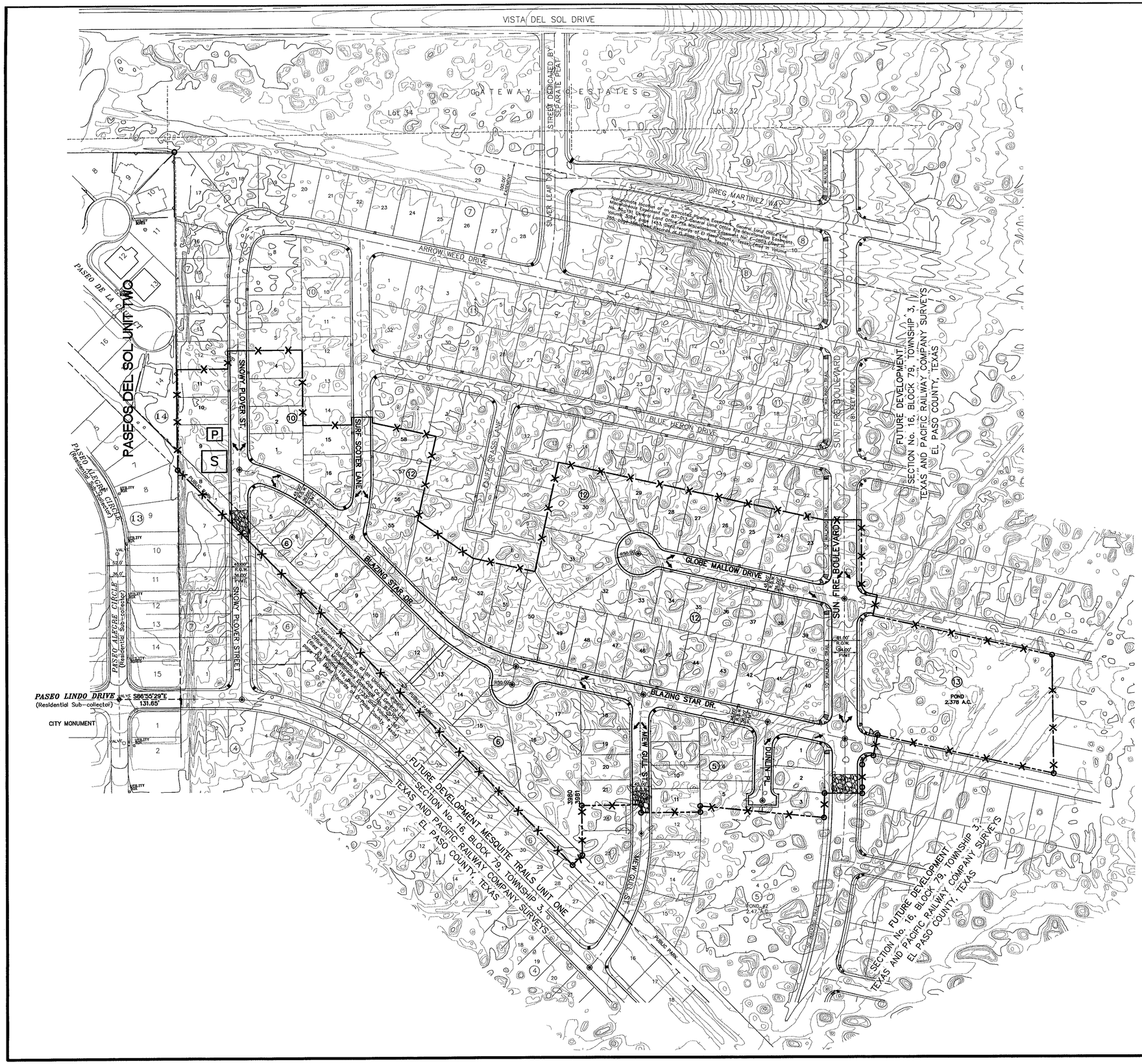
JOB No. 2250–008

PROJECT TITLE
MESQUITE TRAILS UNIT TWO
SUBDIVISION IMPROVEMENTS

SHEET TITLE
STORM WATER POLLUTION PREVENTION PLAN GENERAL NOTES

SHEET NO.
24
OF 26

103058



SITE PLAN

SCALE: 1" = 100'

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
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LEGEND

—X—X— SILT FENCE OR EARTHERN BERM

STABILIZED CONSTRUCTION ENTRANCE

S STAGING AREA

P PORTABLE TOILETS

REFERENCES – BENCHMARKS

BENCHMARK IS STY MONUMENT AT THE INTERSECTION OF EL PASO AVENUE CIRCLE AND PASEO LINDO DRIVE. ELEVATION = 4003.10 (CITY DATUM).

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ENGINEER'S SEAL

ANGEL L. AZCARATE 85075 CONSULTING ENGINEER 6/6/07

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

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SHEET TITLE

STORM WATER POLLUTION PREVENTION PLAN SITE PLAN

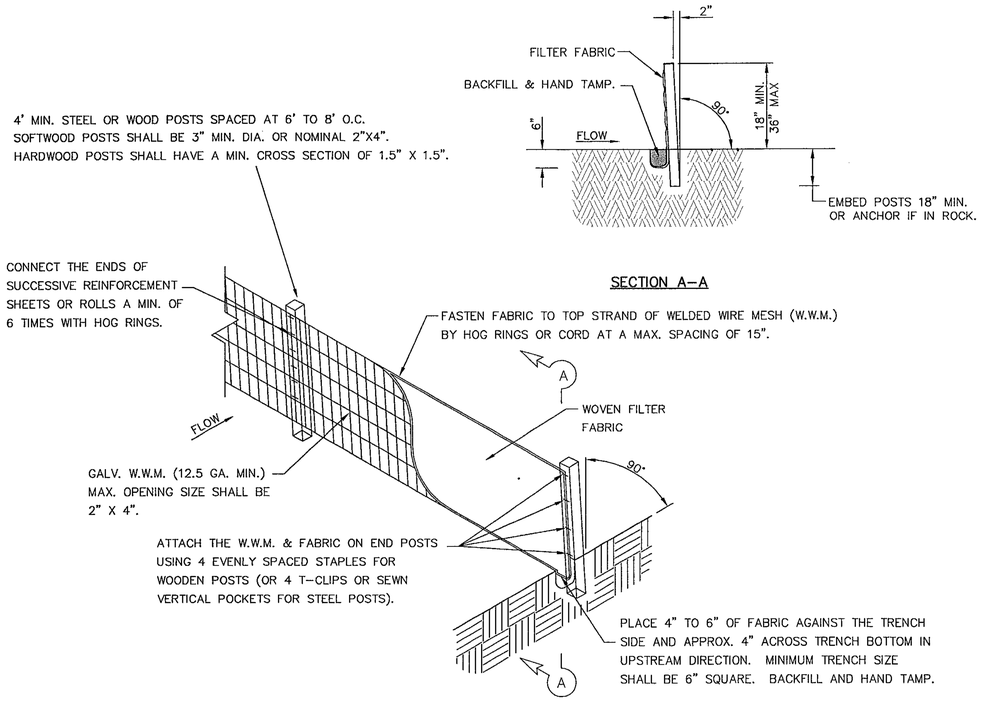
SHEET NO.

25

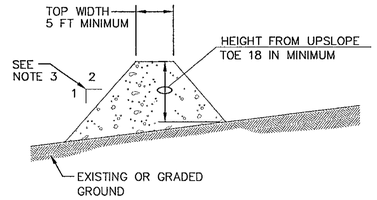
OF 26

SDPCP #: ___-____
SDPCP DATE: ___-___-___

103058



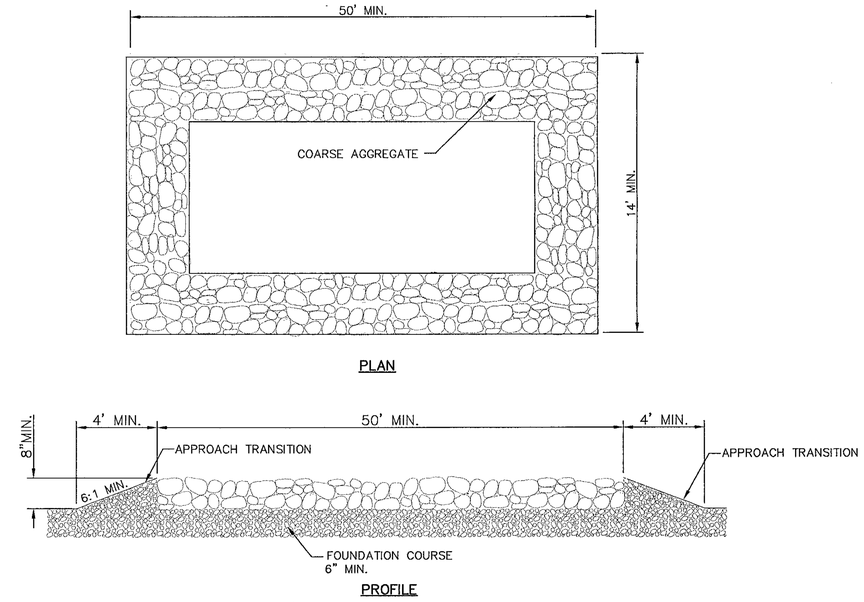
TEMPORARY SEDIMENT CONTROL FENCE



GENERAL NOTES:

1. SOIL USED IN BERM CONSTRUCTION SHALL BE MACHINE COMPACTED.
2. TOP WIDTH AND HEIGHT OF BERM MAY BE MODIFIED WITH PRIOR APPROVAL OF THE ENGINEER.
3. SIDE SLOPES WITHIN THE SAFETY CLEAR ZONE OF A ROADWAY SHALL BE 6:1 OR FLATTER.
4. GRADING SHALL BE SHOWN ELSEWHERE IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. THE ENGINEER RESERVES THE RIGHT TO MODIFY THE DIMENSIONS SHOWN FOR THE BERM DEPENDENT ON RUNOFF VOLUME CHARACTERISTICS.
6. BERM THAT ARE IN PLACE FOR MORE THAN 14 CALENDAR DAYS SHOULD BE STABILIZED TO PREVENT SEDIMENT RUNOFF.
7. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

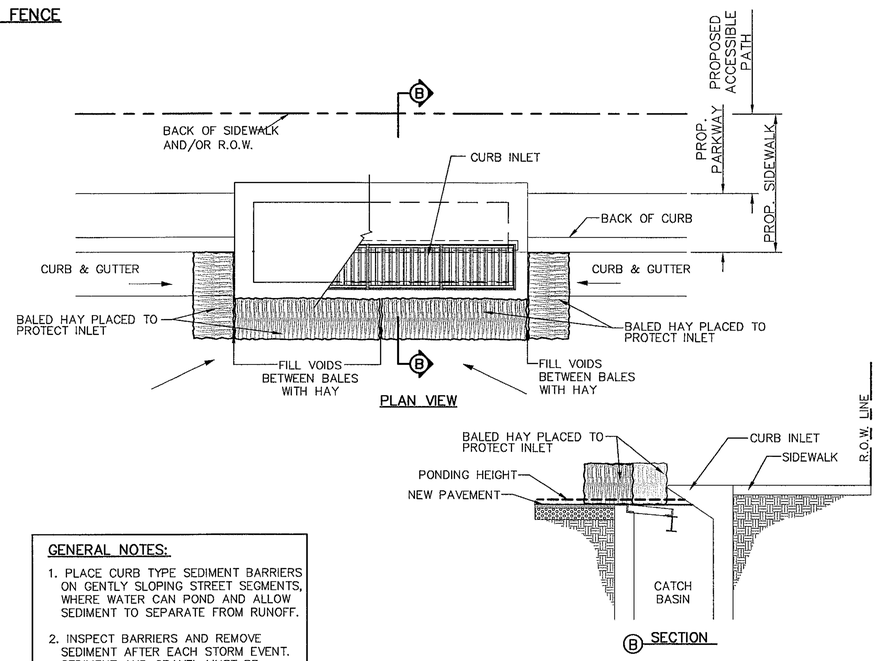
TYPICAL BERM CONFIGURATION



GENERAL NOTES

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

CONSTRUCTION EXIT (TYPE 1)



GENERAL NOTES:

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

TEMPORARY INLET PROTECTION

REFERENCES – BENCHMARKS
BENCHMARK IS SITY MONUMENT AT THE INTERSECT OF PASEO ALEGRE CIRCLE AND PASEO LINDO DRIVE ELEVATION = 4003.10 (CITY DATUM).

ENGINEER'S SEAL

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

PROJECT TITLE

SHEET

STORM
POL
PEVENT
DE

SHEET

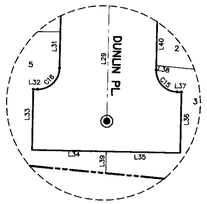
2

OF

103058

MESQUITE TRAILS UNIT TWO

BEING A PORTION OF
SECTION No. 16, BLOCK 79, TOWNSHIP 3,
TEXAS AND PACIFIC RAILWAY COMPANY SURVEYS
EL PASO, EL PASO COUNTY, TEXAS
CONTAINING 21.307± ACRES



LINE TABLE		
LINE	BEARING	LENGTH
L1	S87°26'43"E	110.00'
L2	N02°33'17"E	38.75'
L3	S87°26'43"E	160.42'
L4	S02°29'58"W	163.84'
L5	S87°30'02"E	105.00'
L6	N02°29'58"E	16.52'
L7	S87°30'02"E	45.00'
L8	S02°29'58"W	12.45'
L9	S74°33'25"E	140.00'
L10	S15°26'35"W	186.07'
L11	S52°29'18"E	143.55'
L12	S74°33'25"E	137.50'
L13	N15°26'35"E	240.00'
L14	S86°56'57"E	81.00'
L15	S03°03'03"W	137.38'
L16	S74°33'25"E	18.68'
L17	S15°26'35"W	45.00'
L18	S15°26'35"W	45.00'
L19	S03°03'03"W	48.62'
L20	N86°26'34"W	81.00'
L21	S02°29'58"W	12.83'
L22	N87°30'02"W	127.50'
L23	N02°29'58"E	16.70'
L24	N87°30'02"W	127.50'
L25	S02°29'58"W	106.04'
L26	S48°03'03"W	30.00'
L27	N15°26'35"E	39.49'
L28	N15°26'35"E	6.94'
L29	N04°11'36"E	89.15'
L30	S04°11'36"W	48.03'
L31	S04°11'36"W	16.89'
L32	N85°48'24"W	2.00'
L33	S04°11'36"W	28.23'
L34	S85°48'24"E	34.50'
L35	S85°48'24"E	34.50'
L36	N04°11'36"E	28.23'
L37	N85°48'24"W	2.00'
L38	N04°11'36"E	2.14'
L39	S04°11'36"W	10.07'
L40	N04°11'36"E	50.14'
L41	N04°11'36"E	12.64'
L42	S74°33'25"E	1.99'
L43	N47°08'20"E	20.00'
L44	S74°33'25"E	9.11'
L45	S74°33'25"E	15.51'
L46	S74°33'25"E	18.68
L47	N41°56'57"W	2.65
L48	S41°56'57"E	10.15

Approximate location of an unlocated Pipeline Easement. General Land Office File Miscellaneous Easement No. 63-013 General Land Office File Miscellaneous Easement No. 65-191 General Land Office File Miscellaneous Easement No. E-0803 (Filed in Volume 3084, page 1453, Deed records of El Paso county, Texas) (filed in Volume 255, page 158, Deed Records of El Paso County, Texas)

Approximate location of an unlocated Pipeline Easement. General Land Office File Miscellaneous Easement No. 63-013 (Filed in Volume 3084, page 1453, Deed records of El Paso county, Texas) (filed in Volume 255, page 158, Deed Records of El Paso County, Texas)

NOTES:

BEARINGS SHOWN ARE GRID BEARINGS.
BASED ON GPS RTK OBSERVATION.

DENOTES PROPOSED LOCATION OF NDCBU. (NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS).

DENOTES PROPOSED CITY MONUMENT.

THIS IS TO CERTIFY THAT WATER AND SEWER SERVICES WILL BE PROVIDED TO MESQUITE TRAILS UNIT TWO BY THE EL PASO WATER UTILITIES/PUBLIC SERVICE BOARD IN ACCORDANCE WITH THEIR RULES AND REGULATIONS AND WITH SECTION 16.343 OF THE TEXAS WATER CODE. WATER AND SEWER SERVICES WILL BE EXTENDED TO THE SUBDIVISION FROM EXISTING FACILITIES LOCATED ON SNOWY PLOVER STREET, MEW GULL LANE, AND SUN FIRE BLVD. AND WILL BE CONSTRUCTED TO SERVE THE SUBDIVISION WITHIN TWO (2) YEARS OF THE DATE OF FILING THE FINAL SUBDIVISION PLAT.

TAX CERTIFICATE(S) FOR THIS SUBDIVISION ARE IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION, INSTRUMENT No. 20070096961

VEHICULAR ACCESS TO THOSE RESIDENTIAL LOTS ABUTTING SUN FIRE BOULEVARD, AND THE PUBLIC PARK SHALL BE FROM OTHER DEDICATED STREETS ONLY. THE INSTRUMENT ASSURING RELEASE OF ACCESS IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.
INSTRUMENT No. 20070096962

RESTRICTIVE COVENANTS FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.
INSTRUMENT No. 20070096963

NO MORE THAN ONE SINGLE-FAMILY DETACHED DWELLING SHALL BE LOCATED ON EACH LOT.

INTERIOR LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES.

SET 5/8" REBAR WITH CAP STAMED "B&A" AT ALL EXTERIOR BOUNDARY CORNERS UNLESS OTHERWISE SHOWN.

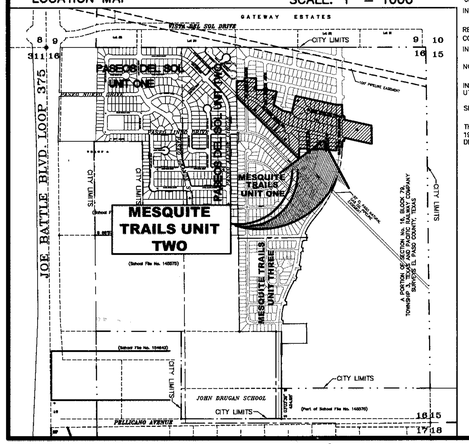
THIS SUBDIVISION LIES WITH IN ZONE "X" AS DESIGNATED IN PANEL NO. 480212 0250 B, DATED SEPTEMBER 9, 1991, OF THE FLOOD INSURANCE RATE MAPS, EL PASO COUNTY, TEXAS. ZONE "X" INDICATES AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

LOCATION MAP SCALE: 1" = 1000'



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	20.00'	27.09'	16.08'	25.07'	S35°45'11"E	77°36'28"
C2	20.00'	35.74'	24.87'	31.17'	S54°14'49"W	102°23'32"
C3	1492.00'	13.19'	6.59'	13.19'	N03°18'15"E	0°30'23"
C4	1411.00'	52.11'	26.06'	52.11'	N04°36'55"E	2°06'58"
C5	375.00'	136.08'	68.80'	135.33'	N12°53'43"E	20°47'29"
C6	375.00'	201.61'	103.31'	199.19'	S57°21'04"E	30°48'14"
C7	375.00'	11.81'	5.90'	11.81'	S73°39'18"E	1°48'14"
C8	375.00'	78.98'	39.64'	78.83'	S08°31'58"W	12°04'01"
C9	375.00'	73.63'	36.93'	73.51'	S09°49'06"W	11°14'59"
C10	1455.00'	12.86'	6.43'	12.86'	N03°18'15"E	0°30'23"
C11	1411.00'	12.47'	6.24'	12.47'	N03°18'15"E	0°30'23"
C12	20.00'	27.09'	16.08'	25.07'	N35°45'11"W	77°36'28"
C13	25.00'	42.37'	28.31'	37.48'	S56°53'11"W	97°06'49"
C14	352.50'	25.45'	12.73'	25.44'	S06°15'41"W	4°08'10"
C15	10.00'	15.71'	10.00'	14.14'	S40°48'24"E	90°00'00"
C16	10.00'	15.71'	10.00'	14.14'	N49°11'36"E	90°00'00"
C17	397.50'	7.03'	3.51'	7.03'	S04°41'59"W	1°00'46"
C18	397.50'	31.10'	15.56'	31.10'	S07°26'52"W	4°29'00"
C19	27.00'	39.70'	24.42'	36.22'	N32°28'01"W	84°14'47"
C20	25.00'	43.35'	29.46'	38.12'	S55°45'56"W	99°21'19"
C21	352.50'	22.08'	11.04'	22.07'	S04°17'37"W	3°35'18"
C22	397.50'	4.73'	2.36'	4.73'	S02°50'24"W	0°40'53"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C23	397.50'	32.79'	16.40'	32.78'	S05°32'38"W	4°43'35"
C24	27.50'	39.58'	24.10'	36.25'	N33°19'29"W	82°27'51"
C25	20.00'	30.50'	19.11'	27.63'	S61°44'58"W	87°23'14"
C26	50.00'	33.98'	17.68'	33.33'	N37°31'32"E	38°56'21"
C27	50.00'	43.44'	23.20'	42.08'	N81°52'56"E	49°46'26"
C28	50.00'	60.99'	34.94'	57.28'	S38°17'08"E	69°53'28"
C29	50.00'	19.87'	10.07'	19.74'	S08°02'43"W	22°46'14"
C30	20.00'	28.87'	17.60'	26.43'	N21°55'31"W	82°42'42"
C31	397.50'	28.34'	14.18'	28.34'	S81°14'19"E	4°05'07"
C32	397.50'	61.59'	30.86'	61.53'	S54°45'25"E	8°52'41"
C33	397.50'	8.07'	4.04'	8.07'	S49°44'09"E	1°09'50"
C34	397.50'	49.98'	25.03'	49.95'	S45°33'06"E	7°12'17"
C35	352.50'	57.60'	28.87'	57.54'	N46°37'50"W	9°21'46"
C36	352.50'	98.24'	49.44'	97.92'	N59°17'45"W	15°58'04"
C37	23.50'	45.18'	33.66'	38.54'	S57°38'15"W	110°09'55"
C38	—	—	—	—	—	—
C39	—	—	—	—	—	—
C40	30.00'	38.59'	22.49'	35.99'	S34°18'00"E	73°42'34"
C41	397.50'	103.08'	51.83'	102.79'	N63°43'32"W	14°51'29"
C42	397.50'	80.37'	40.32'	80.23'	N50°30'15"W	11°35'05"
C43	22.50'	49.04'	43.12'	39.89'	N72°50'43"E	124°53'09"
C44	352.50'	48.62'	24.35'	48.58'	N08°27'03"E	7°54'11"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C45	397.50'	9.84'	4.92'	9.84'	N03°12'31"E	1°25'06"
C46	397.50'	60.53'	30.32'	60.47'	N08°16'49"E	8°43'30"
C47	397.50'	38.78'	19.41'	38.77'	N15°28'16"E	5°35'24"
C48	36.00'	37.81'	20.86'	36.10'	S11°51'29"E	60°10'55"
C49	352.50'	45.32'	22.69'	45.29'	S45°37'55"E	7°21'57"
C50	352.50'	63.96'	32.07'	63.87'	S54°30'46"E	10°23'44"
C51	352.50'	60.98'	30.57'	60.91'	S64°39'59"E	9°34'43"
C52	352.50'	30.36'	15.19'	30.35'	S72°05'23"E	4°56'04"
C53	20.00'	35.74'	24.87'	31.17'	N54°14'49"E	102°23'32"
C54	20.00'	27.09'	16.08'	25.07'	N35°45'11"W	77°36'28"
C55	20.00'	18.37'	9.89'	17.73'	S79°08'05"W	52°37'00"
C56	50.00'	46.40'	25.02'	44.75'	N79°24'35"E	53°10'00"
C57	50.00'	44.84'	24.05'	43.35'	S48°18'53"E	51°23'03"
C58	50.00'	43.76'	23.39'	42.38'	S02°27'01"W	50°08'45"
C59	50.00'	41.74'	22.17'	40.54'	S51°26'18"W	47°49'48"
C60	50.00'	47.86'	25.94'	46.05'	N77°13'35"W	54°50'27"
C61	50.00'	24.32'	12.40'	24.08'	N35°52'23"W	27°51'57"
C62	20.00'	18.37'	9.89'	17.73'	S48°14'55"E	52°37'00"
C63	20.00'	35.74'	24.87'	31.17'	N54°14'49"E	102°23'32"
C64	20.00'	35.74'	24.87'	31.17'	S54°14'49"W	102°23'32"
C65	20.00'	27.09'	16.08'	25.07'	S35°45'11"E	77°36'28"
C66	375.00'	229.99'	118.74'	226.40'	N59°31'07"W	35°08'22"

DEDICATION

Americas Loop 375 Joint Venture, the owners of this land, do hereby present this map and dedicate their respective portions of property to the use of the public, the street, drives, ponding area, public park, pedestrian right-of-way and utility easements as hereon laid down and designated, including easements for overhang of service wires for pole type utilities and the right for installation of service poles alongside lot lines as may be required, easements for buried service wires, conduits and pipes for underground utilities, and the right to ingress and egress for service and construction, and the right to trim interfering trees and shrubs.

Witness my signature this 4th day of September 2007.

R. L. BOWLING III, Managing Partner
Americas Loop 375 Joint Venture, L.P.

ACKNOWLEDGEMENT

MARCELA FOURZAN
MY COMMISSION EXPIRES
October 7, 2010

STATE OF TEXAS
COUNTY OF EL PASO

Before me, the undersigned authority, on this day personally appeared R. L. Bowling III, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same as the act and deed for the purpose and consideration herein expressed.

Given under my hand and seal of office this 4th day of September 2007.

Notary Public in and for El Paso County

October 7, 2010
My Commission Expires

CITY PLANNING COMMISSION

This subdivision is hereby approved as to the platting and as to the condition of the dedication in accordance with Chapter 212 of the Local Government Code of Texas this 10 day of Oct, 2007.

Chairman

Secretary

Approved for filing this 25th day of September, 2007.

Development Services Director

FILING

Filed and recorded in the office of the County Clerk of El Paso County, Texas, this 11 day of October 2007, in File No. 20070096960 of the Plat Records.

County Clerk

by Deputy

STATE OF TEXAS
JORGE L. AZCARATE
85075
LICENSED
PROFESSIONAL ENGINEER

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

JORGE L. AZCARATE, P.E.
Licensed Professional Engineer
Texas License No. 85075

STATE OF TEXAS
BENITO A. BARRAGAN
5615
REGISTERED
PROFESSIONAL
LAND SURVEYOR

This plat represents a survey made on the ground by me or under my supervision and complies with the current Texas Board of Professional Land Survey Professional and Technical Standards.

Benito A. Barragan, R.P.L.S. Texas, No. 5615

ENGINEER

cea group
engineers • architects • planners
1204 Montana Ave., El Paso, Texas 79902
Office 915.544.5232 Fax 915.544.5233
www.ceagroup.net
CONTACT: JORGE L. AZCARATE, P.E.

SURVEYOR
Barragan & Associates
LAND PLANNING & LAND SURVEYING
1450 Pendale Road Suite B –El Paso Tx 79936
Phone (915) 591–5709 Fax (915) 591–5706
CONTACT: BENITO BARRAGAN, R.P.L.S.

DATE OF PREPARATION: MAY 02, 2007

MESQUITE TRAILS UNIT 2