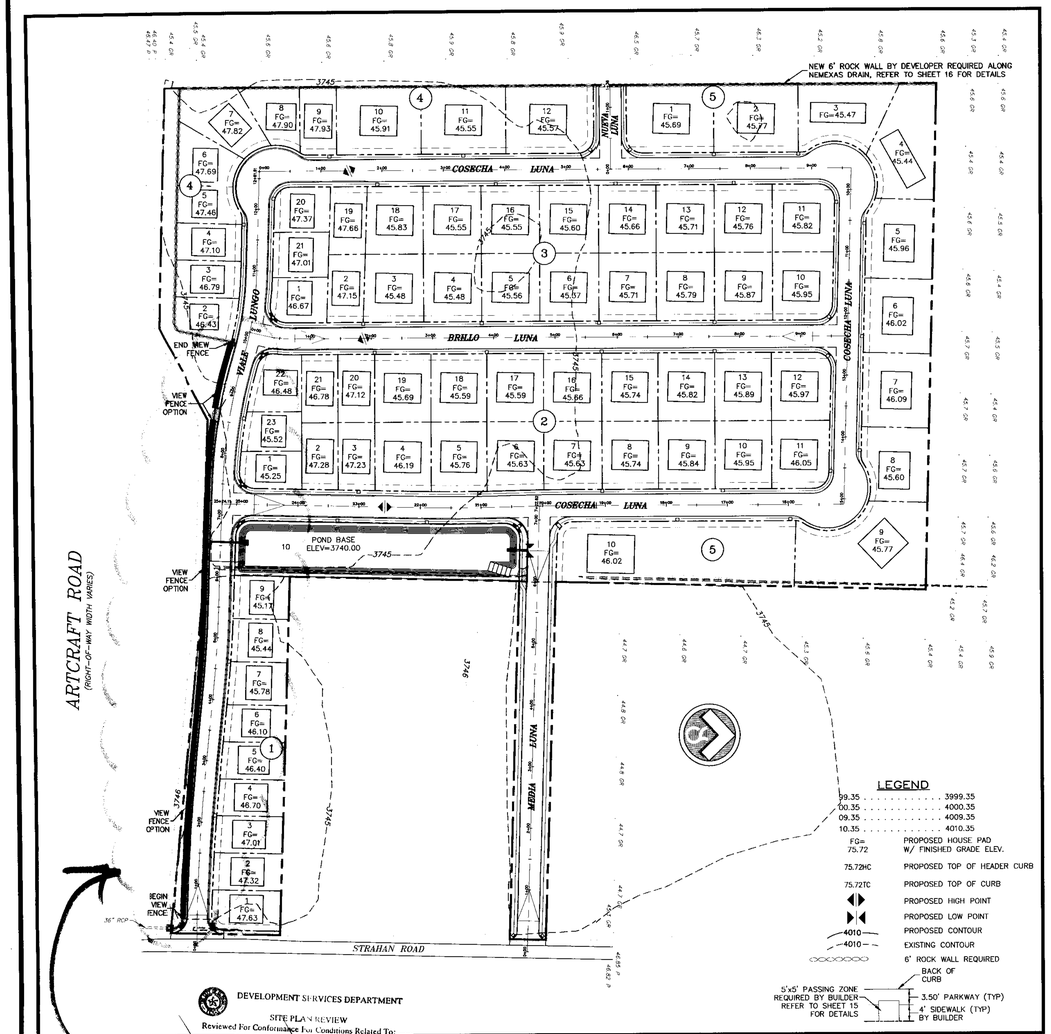


GENERAL NOTES:

1. LOCATIONS OF ALL UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES FOR THE EXACT LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES INCLUDING UTILITIES NOT SHOWN ON PLANS. THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND ANY UTILITIES NOT SHOWN ON THIS PLAN DURING CONSTRUCTION. THE CONTRACTOR WILL PERFORM ALL UTILITY INSTALLATION, REMOVAL AND RELOCATION'S AS PER LOCAL UTILITY CONSTRUCTION SPECIFICATIONS. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS ON SITE AND SHALL CONTACT THE DESIGN ENGINEER AND REPORT ANY DISCREPANCIES, OMISSIONS AND/OR ERRORS ON PLANS PRIOR TO COMMENCING WORK.

3. ALL CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH THE CITY OF EL PASO STANDARD SPECIFICATIONS AND DETAILS.

4. CONTRACTOR SHALL PERFORM ALL EARTHWORK REQUIREMENTS AS PER GEOTECHNICAL STUDY REPORT.

5. INSTALL A TRENCH SAFETY SYSTEM FOR ALL TRENCHES EXCEEDING A DEPTH OF FIVE FEET (5') AS PER OSHA STANDARDS.

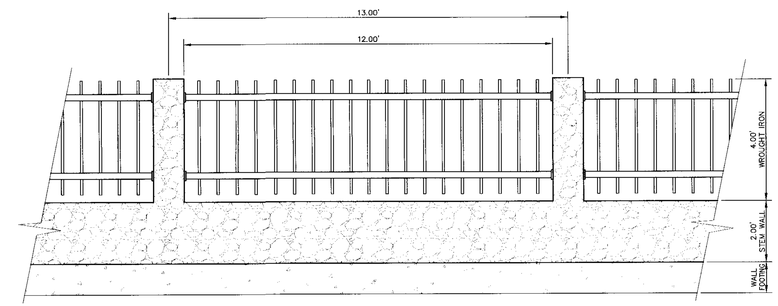
6. SLOPES WHICH ARE TO RECEIVE FILL MUST BE CLEARED OF ALL VEGETATION.

7. POSITIVE DRAINAGE SHALL BE PROVIDED BY CONTRACTOR DURING ALL PHASES OF CONSTRUCTION AND GRADING. LOTS SHOULD DRAIN TOWARD STREET.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND SUBMITTAL OF ALL PERMITTING NECESSARY FOR EARTHWORK OPERATIONS AND STORM WATER POLLUTION CONTROL.

9. NOTE TO BUILDERS: RETAINING WALLS MUST BE PROVIDED WHENEVER THE GRADE DIFFERENTIAL BETWEEN LOT GRADES IS GREATER THAN 2.0 FEET. WALLS MUST BE DESIGNED AND CERTIFIED BY A CIVIL ENGINEER (FOR APPROVAL) WHEN APPLYING FOR A BUILDING PERMIT.

10. EXISTING CONTOURS, PROPOSED CONTOURS AND ELEVATIONS ARE PROVIDED TO CITY DATUM.



VIEW FENCE
SCALE: 1"=2'-0"

WARNING !
BEFORE YOU DIG
CONTRACTOR SHALL
FIELD LOCATE ALL EXISTING
UNDERGROUND IMPROVEMENTS
IN PROJECT AREA

BEFORE YOU DIG –	CALL
EL PASO ELECTRIC COMPANY	543-5720
SBC	1-800-DIG-TESS
TEXAS GAS SERVICE	544-6300
EMERGENCY HOTLINE	562-8411/562-2003
PUBLIC SERVICE BOARD (WATER & SEWER)	1-800-DIG-TESS
TIME WARNER COMMUNICATIONS (CABLE)	775-7414
EL PASO NATURAL GAS CO.	1-800-334-8047
TEXAS EXCAVATION SAFETY SYSTEM	1-800-344-8377

LEGEND

LOT LINE	
UTILITY EASEMENT	
CENTER LINE OF STREET	
STREET R.O.W.	
SUBDIVISION BOUNDARY LINE	
4" ROLLED CURB	
DIRECTION OF RUNOFF FLOW	
3728.85	PROPOSED TOP OF CURB FINISHED GRADES
(3729.2)	EXISTING GRADE
TC=08.09	PROPOSED TOP OF CURB ELEVATION
PVMT=08.65	PROPOSED PAVEMENT ELEVATION
	HIGH POINT
	LOW POINT
	POINT OF VERTICAL INTERSECTION
	PROPOSED CITY MONUMENT SEE DETAIL SHT 15
	50' TRANSITION AT INTERSECTION
	4' HANDICAP RAMP SEE DETAIL SHT 15
	BACK OF CURB; 5'x5' PASSING ZONE BY BUILDER; 3.50' PARKWAY (TYP); 4' SIDEWALK (TYP) BY BUILDER

NO.	DATE	DESCRIPTION	BY
4	03-31-07	VIEW FENCE OPTION	JCK
3	02-21-06	FINAL CITY SUBMITTAL	JCK
2	02-09-06	2nd CITY SUBMITTAL	JCK
1	01-09-06	1st CITY SUBMITTAL	JCK

5/3/07
STATE OF TEXAS
JOHN C. KARLSRUHER
53878
LICENSED PROFESSIONAL ENGINEER

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1845 Northwestern Dr. Ste C
El Paso, Texas 79912
tel (915) 877.4155
fax (915) 877.4334
www.cseengineers.com

Brillo De La Luna Subdivision

VIEW FENCE OPTION

G.B. DESIGNED BY | D.G. – L.T. DRAWN BY | J.C.K. CHECKED BY

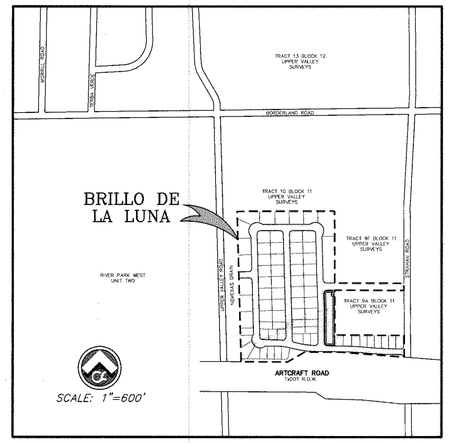
4042 JOB NO.
01-09 DATE
AS NOTED SCALE
SHEET
OF

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN TOP OF A HEADWALL @ COATES AND DONIPHAN ELEVATION=3743.65 (EL PASO CITY DATUM)

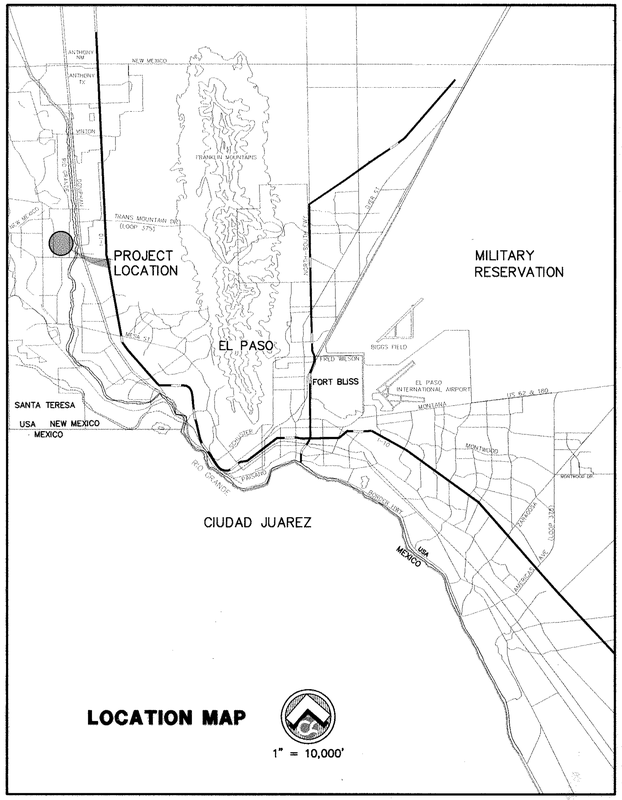
T:\4042 - Brillo De La Luna (Artcraft S.J.)\FINAL CITY SUBMITTAL\4042 - view fence.dwg

PLANS FOR CONSTRUCTION OF

BRILLO DE LA LUNA
Subdivision



VICINITY MAP



LOCATION MAP

1" = 10,000'

DRAWING INDEX

SHEET NO.	DRAWING TITLE
1	COVER SHEET
2	SUBDIVISION PLAT
3	DRAINAGE PLAN
4	GRADING PLAN
5	CROSS SECTIONS
6	CROSS SECTIONS
7	VIALE LUNGO PLAN & PROFILE
8	VIALE LUNGO PLAN & PROFILE
9	COSECHA LUNA PLAN & PROFILE
10	COSECHA LUNA PLAN & PROFILE
11	COSECHA LUNA PLAN & PROFILE
12	BRILLO LUNA PLAN & PROFILE
13	BRILLO LUNA PLAN & PROFILE
14	MEDIA LUNA, NUEVA LUNA PLAN & PROFILE
15	STANDARD DETAILS
16	STANDARD DETAILS
17	STORM SEWER PLAN & PROFILE, POND DETAILS
18	STORM SEWER DETAILS
19	ILLUMINATION PLAN
20	STORM WATER POLLUTION PREVENTION PLAN
21	STORM WATER POLLUTION PREVENTION PLAN
ADDENDUM A	VIEW FENCE OPTION

STATE OF TEXAS
JOHN C. KARLSRUHER
53878
REGISTERED
PROFESSIONAL ENGINEER
7/29/08

RECORD DRAWING

csa design group, inc.
1845 Northwestern Dr. Ste C
El Paso, Texas 79912
tel [915] 877.4155
fax [915] 877.4334
www.csaengineers.com

FILE No. 4042

07/29/08 RECORD DRAWING

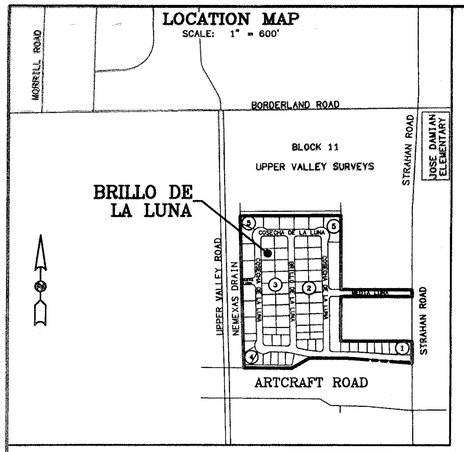
4042 BRILLO DE LA LUNA SUBDIVISION

© 2008 CSA DESIGN GROUP, INC.

S:\Draw\4042 Brillo de la Luna (Aerial) SubTAS-BuilTS\4042 Sht(cover).dwg
Jul 28, 2008 - 2:23pm
tbrooks

BRILLO DE LA LUNA

BEING ALL OF TRACT 9B AND A PORTION OF TRACTS 6, 9F AND 10A, BLOCK 11, UPPER VALLEY SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. CONTAINING 25.567 ± ACRES



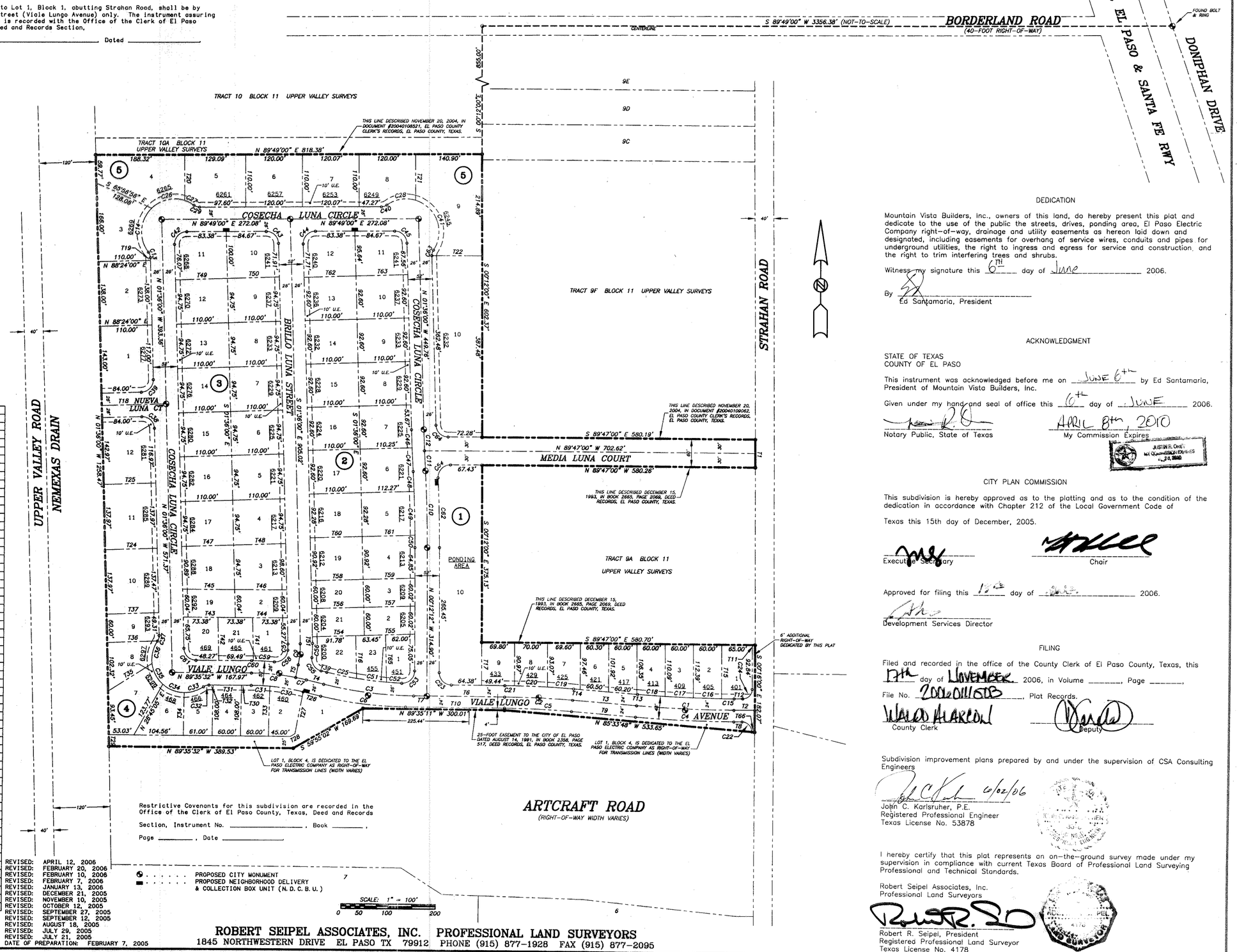
ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP PANEL 480212-0125B, DATED OCTOBER 15, 1982, THIS PROPERTY LIES IN FLOOD HAZARD ZONE "X".

Vehicular access to Lot 1, Block 1, abutting Strahan Road, shall be by other dedicated street (Viale Lungo Avenue) only. The instrument assuring Release of Access is recorded with the Office of the Clerk of El Paso County, Texas, Deed and Records Section,

Instrument No. _____ Dated _____

ON-SITE PONDING REQUIREMENTS
The following lots in this subdivision are subject to the on-site ponding of storm waters. The typical street and lot drainage cross-section, which must be strictly adhered to, is shown on the subdivision street and drainage plans on file in the office of the City Engineer.

Lots 4-19, inclusive, Block 2
Lots 3-18, inclusive, Block 3
Lots 1, 10, 11, and 12, Block 4
Lots 1-10, inclusive, Block 5



NOTES:

1. UNLESS OTHERWISE INDICATED, ALL LINES ARE TAKEN FROM THE MAPS OF THE RESURVEY OF BLOCKS 11 AND 12, UPPER VALLEY SURVEYS, MADE FOR TAX PURPOSES BY EL PASO COUNTY IN 1930.
2. BASIS OF BEARINGS IS THE EXISTING RIO GRANDE, EL PASO & SANTA FE RAILROAD TRACK.
3. SET 5/8" REBAR WITH CAP MARKED "RPLS 4178" AT ALL EXTERIOR BOUNDARY CORNERS UNLESS OTHERWISE NOTED; INDIVIDUAL LOT CORNERS WILL BE SET FOLLOWING COMPLETION OF EARTHMOVING OPERATIONS.
4. THE ARTCRAFT ROAD RIGHT-OF-WAY IS DESCRIBED FEBRUARY 4, 1997, IN BOOK 3179, PAGE 884, AND SEPTEMBER 16, 1997, IN BOOK 3262, PAGE 517, DEED RECORDS, EL PASO COUNTY, TEXAS.
5. PROPERTY IS SUBJECT TO CONSENT TO EASEMENT DATED OCTOBER 10, 1991, IN BOOK 2366, PAGE 1126, DEED RECORDS, EL PASO COUNTY, TEXAS.
6. PROPERTY IS SUBJECT TO ASSIGNMENT OF WATER RIGHTS DATED MAY 31, 1991, IN BOOK 2322, PAGE 325, DEED RECORDS, EL PASO COUNTY, TEXAS.
7. U.S. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS.
8. LOT 1, BLOCK 4, IS DEDICATED TO THE EL PASO ELECTRIC COMPANY AS RIGHT-OF-WAY FOR TRANSMISSION LINES.
9. THE PORTION OF THE 25' EASEMENT TO THE CITY OF EL PASO, DATED AUGUST 14, 1991, IN BOOK 2358, PAGE 517, DEED RECORDS, EL PASO COUNTY, TEXAS, WITHIN BLOCK 1 AND THE VALE LUNGO AVENUE RIGHT-OF-WAY WAS RELEASED APRIL 1, 2006, BY EL PASO WATER UTILITIES. THE RELEASE OF EASEMENT IS RECORDED IN FILE NO. _____, DATED _____, EL PASO COUNTY CLERK'S RECORDS, EL PASO COUNTY, TEXAS.

NUMBER	DELTA ANGLE	RADIUS	ARC	TANGENT	CHORD	CHORD BEARING
C1	04°42'12"	2524.00	207.19	103.65	207.13	N 87°54'54" W
C2	04°01'23"	2057.14	144.44	72.25	144.41	N 87°34'29" W
C3	13°22'48"	825.96	192.88	96.88	192.44	N 82°53'47" W
C4	04°42'12"	2548.00	209.16	104.64	209.10	N 87°54'54" W
C5	04°01'23"	2033.14	142.76	71.41	142.73	N 87°34'29" W
C6	13°22'48"	778.28	181.75	91.29	181.33	N 82°53'47" W
C7	02°36'37"	500.00	22.78	11.39	22.78	N 77°30'42" W
C8	10°46'32"	500.00	94.03	47.16	93.90	N 84°12'16" W
C9	12°47'00"	200.00	44.62	22.40	44.53	N 04°47'30" E
C10	03°05'27"	3000.00	161.84	80.94	161.82	N 01°44'56" W
C11	00°49'02"	3000.00	42.80	21.40	42.80	N 02°53'08" W
C12	00°52'37"	3000.00	45.92	22.96	45.92	N 02°02'19" W
C13	36°05'12"	20.00	12.60	6.52	12.39	S 19°38'36" E
C14	83°34'58"	70.00	102.12	62.57	93.30	N 04°06'17" E
C15	00°36'40"	2500.00	26.66	13.33	26.66	N 89°57'40" W
C16	01°22'32"	2500.00	60.02	30.01	60.02	N 88°58'04" W
C17	01°22'36"	2500.00	60.07	30.03	60.07	N 87°35'30" W
C18	01°20'24"	2500.00	58.47	29.24	58.47	N 86°14'00" W
C19	01°32'03"	2081.14	55.72	27.86	55.72	N 86°19'40" W
C20	01°55'43"	2081.14	70.05	35.03	70.05	N 88°03'42" W
C21	00°33'37"	2081.14	20.36	10.18	20.36	N 89°18'22" W
C22	90°00'00"	20.79	32.66	20.79	29.41	N 45°16'00" W
C23	89°22'59"	26.00	40.56	25.72	36.57	S 44°53'42" E
C24	90°00'00"	20.00	31.42	20.00	28.28	S 44°44'00" W
C25	04°37'06"	799.96	64.48	32.26	64.46	S 78°30'56" E
C26	61°49'27"	70.00	75.53	41.91	71.92	N 76°48'29" E
C27	18°11'00"	70.00	22.22	11.20	22.12	S 63°11'18" E
C28	52°30'47"	70.00	64.16	34.53	61.93	N 80°42'58" E
C29	36°05'12"	20.00	12.60	6.52	12.39	N 72°08'24" W
C30	08°38'17"	474.00	71.46	35.80	71.39	N 80°31'32" W
C31	04°44'52"	474.00	39.28	19.65	39.27	N 87°13'06" W
C32	35°12'09"	20.00	12.29	6.34	12.10	S 72°48'24" W
C33	35°31'11"	70.00	43.40	22.42	42.70	S 72°57'55" W
C34	40°57'45"	70.00	50.05	26.15	48.99	N 68°47'37" W
C35	40°57'33"	70.00	50.04	26.14	48.98	N 27°49'58" W
C36	40°57'20"	70.00	50.04	26.14	48.98	N 13°07'29" E
C37	35°12'09"	20.00	12.29	6.34	12.10	N 16°00'04" E
C38	90°00'00"	26.00	40.84	26.00	36.77	S 46°36'00" E
C39	90°00'00"	26.00	40.84	26.00	36.77	N 43°24'00" E
C40	35°21'25"	20.00	12.34	6.37	12.15	S 72°08'17" W
C41	106°47'04"	70.00	130.46	94.23	112.38	S 19°38'07" E
C42	91°25'00"	26.00	41.48	26.65	37.22	N 44°06'30" E
C43	88°35'00"	26.00	40.20	25.36	36.31	S 45°53'30" E
C44	91°25'00"	26.00	41.48	26.65	37.22	N 44°06'30" E
C45	88°35'00"	26.00	40.20	25.36	36.31	S 45°53'30" E
C46	00°44'13"	3026.00	38.93	19.46	38.93	S 01°58'07" E
C47	00°57'26"	3026.00	50.56	25.28	50.56	S 02°48'57" E
C48	00°48'37"	2974.00	42.06	21.03	42.06	S 02°53'21" E
C49	01°46'40"	2974.00	92.28	46.15	92.28	S 01°35'42" E
C50	00°30'10"	2974.00	26.09	13.05	26.09	S 00°27'17" E
C51	04°35'46"	799.96	64.17	32.10	64.15	S 83°07'22" E
C52	02°19'42"	799.96	32.51	16.26	32.50	S 86°35'06" E
C53	92°27'16"	26.00	41.95	27.14	37.55	N 46°01'26" E
C54	93°12'06"	26.00	42.29	27.50	37.78	N 43°36'57" E
C55	82°11'00"	26.00	37.29	22.67	34.18	N 35°06'53" W
C56	07°34'37"	226.00	29.89	14.96	29.86	N 02°11'18" E
C57	04°13'58"	174.00	12.85	6.43	12.85	S 00°30'98" W
C58	92°58'25"	26.00	42.19	27.39	37.71	S 49°07'10" W
C59	04°46'30"	526.00	43.84	21.93	43.82	N 86°46'52" W
C60	00°25'25"	526.00	3.89	1.94	3.89	N 89°22'49" W
C61	87°59'32"	26.00	39.93	25.10	36.12	S 45°35'46" E
C62	02°46'54"	3026.00	146.91	73.47	146.89	S 01°35'39" E
C63	35°21'25"	20.00	12.34	6.37	12.15	N 16°04'43" E
C64	88°11'00"	26.00	40.02	25.19	36.18	S 45°41'30" E

NUMBER	BEARING	DISTANCE
T1	S 00°16'00" E	60.00'
T2	S 89°44'00" W	44.33'
T3	N 85°33'48" W	136.43'
T4	N 76°12'23" W	38.39'
T5	N 11°11'00" E	27.38'
T6	N 89°35'11" W	165.29'
T7	N 89°35'11" W	27.75'
T8	S 89°44'00" W	17.54'
T9	N 85°33'48" W	136.43'
T10	N 89°35'11" W	210.10'
T11	N 89°47'00" W	6.00'
T12	S 89°44'00" W	18.33'
T13	S 85°33'48" E	1.68'
T14	S 85°33'48" E	14.05'
T15	S 00°16'00" E	113.24'
T16	S 01°36'00" E	90.03'
T17	S 00°16'00" E	90.63'
T18	S 88°24'00" W	138.00'
T19	N 01°36'00" W	5.95'
T20	S 00°11'00" E	96.12'
T21	S 00°11'00" E	96.52'
T22	N 89°47'00" W	106.94'
T24	N 88°24'00" E	110.00'
T25	N 88°24'00" E	110.00'
T26	N 76°12'23" W	38.39'
T27	S 10°23'10" W	90.74'
T28	S 59°55'02" W	11.35'
T29	S 01°36'00" E	25.02'
T30	N 89°35'32" W	20.77'
T31	N 89°35'32" W	60.00'
T32	N 89°35'32" W	8.73'
T33	N 00°56'47" E	106.38'
T34	N 00°24'28" E	91.54'
T35	N 57°50'24" E	109.04'
T36	N 88°08'20" E	106.34'
T37	N 88°08'20" E	110.00'
T39	N 76°12'23" W	12.55'
T41	S 01°36'00" E	90.87'
T42	S 01°36'00" E	90.86'
T43	S 89°35'32" E	110.07'
T44	S 89°35'32" E	110.07'
T45	S 89°35'32" E	110.07'
T46	S 89°35'32" E	110.07'
T47	N 88°24'00" E	110.00'
T48	N 88°24'00" E	110.00'
T49	N 88°24'00" E	110.00'
T50	N 88°24'00" E	110.00'
T51	S 01°36'00" E	13.82'
T54	N 88°24'00" E	110.00'
T55	N 88°24'00" E	107.23'
T56	N 88°24'00" E	110.00'
T57	N 88°24'00" E	108.70'
T58	N 88°24'00" E	110.00'
T59	N 88°24'00" E	110.16'
T60	N 88°24'00" E	110.00'
T61	N 88°24'00" E	112.26'
T62	N 88°24'00" E	110.00'
T63	N 88°24'00" E	110.00'
T64	N 88°24'00" E	110.00'
T65	S 01°36'00" E	99.49'
T66	N 85°33'49" W	6.02'

REVISED: APRIL 12, 2006
REVISED: FEBRUARY 20, 2006
REVISED: FEBRUARY 10, 2006
REVISED: FEBRUARY 7, 2006
REVISED: JANUARY 13, 2006
REVISED: DECEMBER 21, 2005
REVISED: NOVEMBER 10, 2005
REVISED: OCTOBER 12, 2005
REVISED: SEPTEMBER 27, 2005
REVISED: SEPTEMBER 12, 2005
REVISED: AUGUST 18, 2005
REVISED: JULY 29, 2005
REVISED: JULY 21, 2005
DATE OF PREPARATION: FEBRUARY 7, 2005

Restrictive Covenants for this subdivision are recorded in the Office of the Clerk of El Paso County, Texas, Deed and Records

Section, Instrument No. _____, Book _____,

Page _____, Date _____

● . . . . . PROPOSED CITY MONUMENT
▬ . . . . . PROPOSED NEIGHBORHOOD DELIVERY & COLLECTION BOX UNIT (N. D. C. B. U.)

DEDICATION

Mountain Vista Builders, Inc., owners of this land, do hereby present this plat and dedicate to the use of the public the streets, drives, ponding area, El Paso Electric Company right-of-way, drainage and utility easements as hereon laid down and designated, including easements for overhang of service wires, conduits and pipes for underground utilities, the right to ingress and egress for service and construction, and the right to trim interfering trees and shrubs.

Witness my signature this 6TH day of June 2006.

By _____
Ed Santamaria, President

ACKNOWLEDGMENT

STATE OF TEXAS
COUNTY OF EL PASO

This instrument was acknowledged before me on JUNE 6TH by Ed Santamaria, President of Mountain Vista Builders, Inc.

Given under my hand and seal of office this 6TH day of JUNE 2006.

Notary Public, State of Texas

My Commission Expires APRIL 8TH, 2010

JUSTIN R. ORTIZ
MY COMMISSION EXPIRES
APRIL 8, 2010

CITY PLAN COMMISSION

This subdivision is hereby approved as to the platting and as to the condition of the dedication in accordance with Chapter 212 of the Local Government Code of Texas this 15th day of December, 2005.

Executive Secretary

Chair

Approved for filing this 1st day of June 2006.

Development Services Director

FILING

Filed and recorded in the office of the County Clerk of El Paso County, Texas, this 13th day of November 2006, in Volume _____, Page _____,

File No. 20060111018, Plat Records.

County Clerk

Deputy

Subdivision improvement plans prepared by and under the supervision of CSA Consulting Engineers

6/02/06

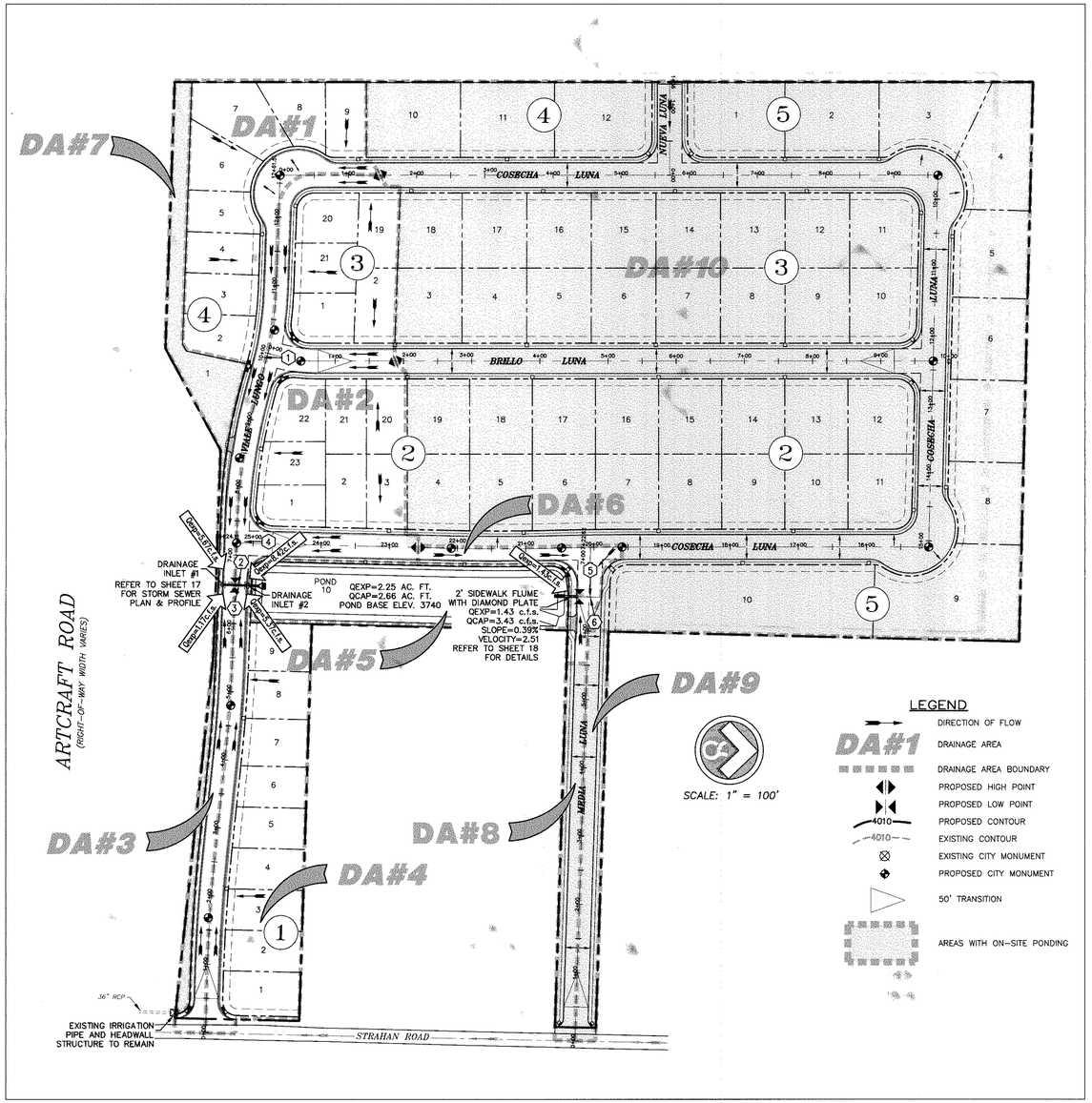
John C. Karlsruher, P.E.
Registered Professional Engineer
Texas License No. 53878

I hereby certify that this plat represents an on-the-ground survey made under my supervision in compliance with current Texas Board of Professional Land Surveying Professional and Technical Standards.

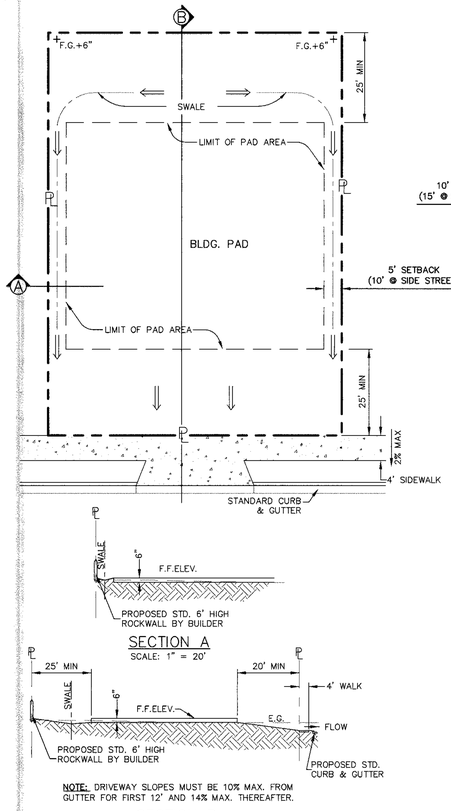
Robert Seipel Associates, Inc.
Professional Land Surveyors

Robert R. Seipel, President
Registered Professional Land Surveyor
Texas License No. 4178

ROBERT SEIPEL ASSOCIATES, INC. PROFESSIONAL LAND SURVEYORS
1845 NORTHWESTERN DRIVE EL PASO TX 79912 PHONE (915) 877-1928 FAX (915) 877-2095

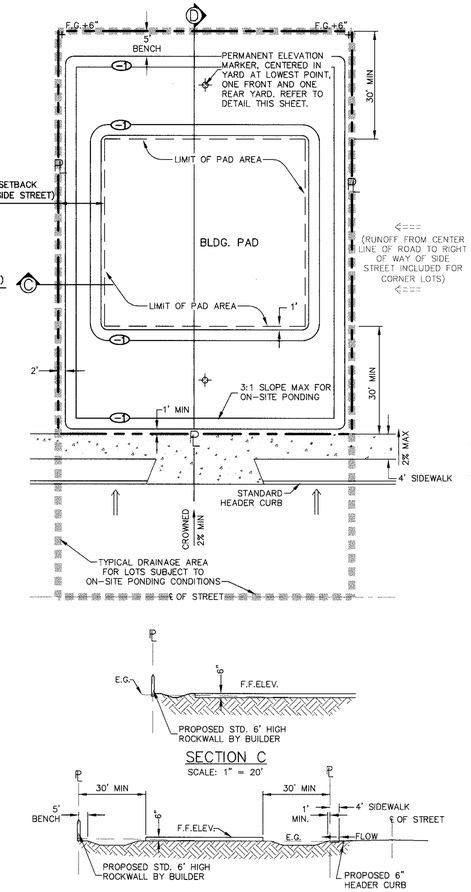


NOTE: THIS SUBDIVISION LIES WITHIN SPECIAL FLOOD HAZARD ZONES "X" AS DESIGNATED BY THE FLOOD INSURANCE RATE MAP (F.I.R.M.), CITY OF EL PASO, SEPTEMBER 4, 1991 PANEL NUMBER 480212 0125 B.



TYPICAL LOT DRAINAGE FOR R3 LOTS

SCALE: 1" = 20'



ON SITE PONDING
TYPICAL LOT DRAINAGE FOR R2 LOTS

SCALE: 1" = 20'

ON SITE PONDING:

THE FOLLOWING LOTS IN THIS DIVISION ARE SUBJECT TO THE ON-SITE PONDING OF STORM WATERS.
LOTS 4-19, INCLUSIVE, BLOCK 2
LOTS 3-18, INCLUSIVE, BLOCK 3
LOTS 1, 10, 11, AND 12, BLOCK 4
LOTS 1-10, INCLUSIVE, BLOCK 5

LOTS WITH ON-SITE PONDING

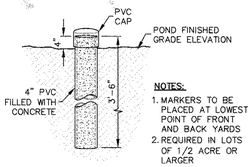
COMPUTATIONS BASED ON RATIONAL FORMULA Q=ARC/12			
100 YEAR STORM FREQUENCY			
LOT/BLOCK NUMBER	AREA (SQUARE FEET)	Q EXP (ACRE FEET)	Q CAP (ACRE FEET)
4/2	12706.58	0.08	0.13
5/2	12813.22	0.08	0.13
6/2	12714.74	0.08	0.13
7/2	12600.64	0.08	0.13
8/2	12593.46	0.08	0.13
9/2	12593.46	0.08	0.13
10/2	12597.05	0.08	0.13
11/2	15680.18	0.09	0.13
12/2	16783.93	0.10	0.14
13/2	12593.46	0.08	0.13
14/2	12593.46	0.08	0.13
15/2	12394.71	0.07	0.13
16/2	12593.46	0.08	0.13
17/2	12593.46	0.08	0.13
18/2	12593.46	0.08	0.13
19/2	12593.46	0.08	0.13
3/3	13432.29	0.08	0.13
4/3	12885.40	0.08	0.13
5/3	12885.40	0.08	0.13
6/3	12885.40	0.08	0.13
7/3	12885.40	0.08	0.13
8/3	12885.40	0.08	0.13
9/3	12885.40	0.08	0.13
10/3	16906.89	0.10	0.14
11/3	16605.68	0.10	0.14
12/3	12885.40	0.08	0.13
13/3	12885.40	0.08	0.13
14/3	12885.40	0.08	0.13
15/3	12885.40	0.08	0.13
16/3	12885.40	0.08	0.13
17/3	12885.40	0.08	0.13
18/3	12573.05	0.08	0.13
10/4	18723.48	0.11	0.26
11/4	18764.10	0.11	0.25
12/4	22980.10	0.14	0.25
1/5	22985.16	0.15	0.26
2/5	18781.20	0.12	0.25
3/5	18367.00	0.05	0.23
4/5	19358.02	0.13	0.28
5/5	18011.18	0.12	0.23
6/5	16320.00	0.11	0.21
7/5	16322.43	0.11	0.21
8/5	15572.78	0.10	0.19
9/5	30995.05	0.20	0.46
10/5	50860.80	0.33	0.76

TOTAL AREA= 711236.86=16.33 ACRES

POND CALCULATIONS FOR RESIDENTIAL LOTS WERE FIGURED USING THE MAXIMUM ALLOWABLE BUILDING PAD AREA FOR EACH LOT. THE ACTUAL POND VOLUME WILL BE MUCH GREATER BASED UPON ACTUAL PAD AREA UTILIZED.

DA 7 (EPEC ROW)	24872.84	0.15	0.22
DA 8	16432.25	0.07	*SHEET FLOW FROM STREET
DA 9	18037.77	0.12	*SHEET FLOW FROM STREET

** RUNOFF IS SHEET FLOW FROM STREET TO ADJACENT PROPERTY. DRAINAGE TO ADJACENT PROPERTY PERMITTED AS ALL FUTURE DEVELOPMENT ALONG MEDIA LUNA COURT WILL BE REQUIRED TO COMPLY WITH ON-SITE PONDING RESTRICTIONS.*



NOTES:
1. MARKERS TO BE PLACED AT LOWEST POINT OF FRONT AND BACK YARDS
2. REQUIRED IN LOTS OF 1/2 ACRE OR LARGER

PERMANENT ELEVATION MARKER

N.T.S.

COMPUTATIONS BASED ON RATIONAL FORMULA Q=CIA					
ONE HUNDRED YEAR STORM FREQUENCY					
DRAINAGE AREA No.	ACRES	TIME OF CONCENTRATION	COEFFICIENT	INTENSITY (I)	DISCHARGE (Q) IN C.F.S.
DA #1	1.84	10.0	0.60	5.14	5.67
DA #2	2.73	10.0	0.60	5.14	8.42
DA #3	0.38	10.0	0.60	5.14	1.17
DA #4	1.74	10.0	0.60	5.14	5.37
DA #5	0.96	10.0	0.90	5.14	4.44
DA #6	0.31	10.0	0.90	5.14	1.43
DA #7	0.57	10.0	0.60	5.14	1.76
DA #8	0.38	10.0	0.60	5.14	1.17
DA #9	0.41	10.0	0.60	5.14	1.26
DA #10	16.30	10.0	0.60	5.14	50.27

STREET CARRYING CAPACITY COMPUTATIONS (FOR FULLY DEVELOPED CONDITIONS AND INCLUDING THE FUTURE SUBDIVISION UNITS)													
SPOT	STREET NAME	STATION	DESIGN AREA (Ac)	AVERAGE "C"	VEL.	L (ft.)	Tc	I 25 (IN/HR)	Q 25 (CFS)	SLOPE (FT/FT)	Q cap (CFS)	DEPTH (IN)	MOMENTUM
①	VIALE LUNGO	6+57.00	3.15	0.60	1.87	803	10.0	4.73	8.94	0.005	21.57	3.72	0.58
②	VIALE LUNGO	6+55.00	2.06	0.60	1.68	756	10.0	4.73	5.85	0.005	21.57	3.12	0.44
③	BRILLO LUNA	0+16.687	0.83	0.60	1.42	318	10.0	4.73	2.36	0.006	23.44	2.16	0.26
④	COSECHA LUNA	25+5.113	0.57	0.60	1.63	356	10.0	4.73	1.62	0.011	31.85	1.68	0.23
⑤	COSECHA LUNA	6+51.00	0.23	0.90	1.30	319	10.0	4.73	0.98	0.011	31.85	1.20	0.13
⑥	MEDIA LUNA	6+49.00	0.08	0.90	0.57	109	10.0	4.73	0.34	0.005	42.50	0.60	0.03

DROP INLETS (TYPE I)				
DROP INLET No.	NUMBER OF GRATES	REQUIRED FLOW CAPACITY Q REQ'D (C.F.S.)	AVAILABLE FLOW CAPACITY Q AVAIL. (C.F.S.)	FLOW BYPASS
INLET #1	3	20.8	22.19	0 c.f.s..
INLET #2	2	7.60	14.46	0 c.f.s..

REFER TO DRAINAGE DETAILS SHEET 18 FOR INLET CALCULATIONS

WARNING !
BEFORE YOU DIG
CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND IMPROVEMENTS IN PROJECT AREA

BEFORE YOU DIG –	CALL
EL PASO ELECTRIC COMPANY	543-5720
SBC	1-800-DIG-TESS
TEXAS GAS SERVICE	544-6300
EMERGENCY HOTLINE	562-8411/562-2003
PUBLIC SERVICE BOARD (WATER & SEWER)	1-800-DIG-TESS
TIME WARNER COMMUNICATIONS (CABLE)	775-7414
EL PASO NATURAL GAS CO.	1-800-334-8047
TEXAS EXCAVATION SAFETY SYSTEM	1-800-344-8377

POND CALCULATION

$$\frac{ARC}{12} \times 1.25 + (A \times .012) = Q_{EXP}$$

ARC = AREA * RATE * COEFFICIENT
= 7.96 * 4 * .65
ARC = 20.7

Q_{EXP} = 12 $\sqrt{ARC}$ * 1.25 + (AREA * .012)
= (20.7 ÷ 12) * 1.25 + (7.96 * .012)
Q_{EXP} = 2.25 AC. FT.

FOR INFORMATION REGARDING SOILS, PERCOLATION, AND WATER TABLE, REFER TO THE SOIL EVALUATION REPORT FOR BRILLO DE LA LUNA SUBDIVISION (PROJECT No. AGCQC05-028-00 DATED 07/05) PREPARED BY CQC TESTING AND ENGINEERING. A FINAL PERCOLATION REPORT WILL BE GENERATED AND SUPPLIED PRIOR TO FINAL ACCEPTANCE OF THE SUBDIVISION BY THE CITY OF EL PASO.

RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

NO.	DATE	DESCRIPTION	BY
6	07-29-08	RECORD DRAWING	JCK
5	12-07-07	WALL CONSTRUCTION REVISION	JCK
4	06-12-07	VIEW FENCE OPTION	JCK
3	02-21-06	FINAL CITY SUBMITTAL	JCK
2	02-09-06	2nd CITY SUBMITTAL	JCK
1	01-09-06	1st CITY SUBMITTAL	JCK

STATE OF TEXAS
JOHN C. KARLSRUHER
53878
REGISTERED PROFESSIONAL ENGINEER
7/29/08

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fax [915] 877.4334
www.csaengineers.com

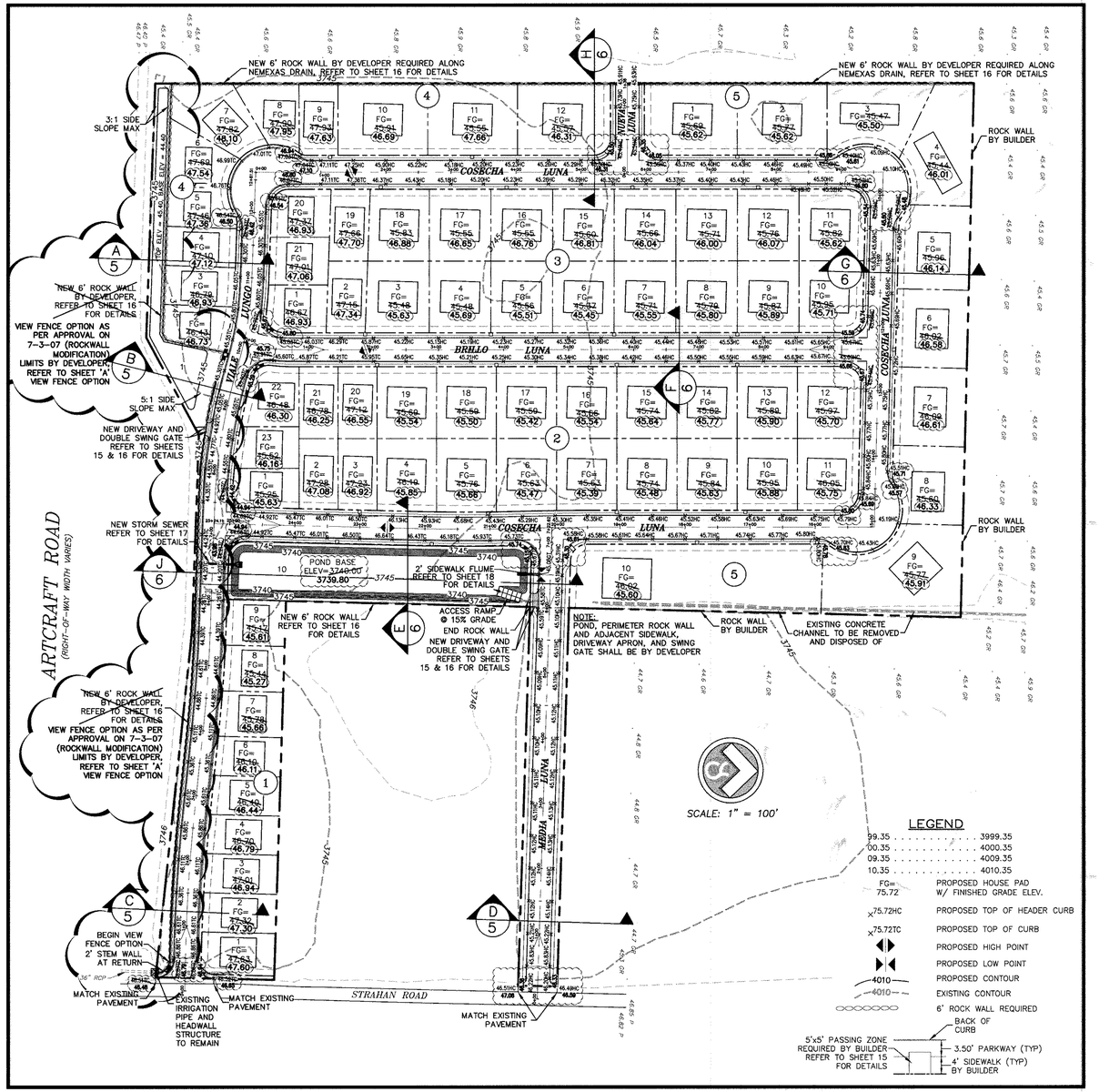
Brillo De La Luna Subdivision

DRAINAGE PLAN

G.B. DESIGNED BY | D.G. - L.T. DRAWN BY | J.C.K. CHECKED BY

4042 JOB No.
01-09-06 DATE
AS NOTED SCALE
SHEET No. 3 OF 21

Jul 29, 2008 - 2:37pm S:\Drwg\4042 Brillo de Luna (Jerscott Sub)\AS-Built\3\4042 Sm3 (Drainage Plan).dwg gpcasa



LEGEND

99.35 . . . . . 3999.35	
00.35 . . . . . 4000.35	
09.35 . . . . . 4009.35	
10.35 . . . . . 4010.35	
FG= 75.72	PROPOSED HOUSE PAD W/ FINISHED GRADE ELEV.
x75.72HC	PROPOSED TOP OF HEADER CURB
x75.72TC	PROPOSED TOP OF CURB
	PROPOSED HIGH POINT
	PROPOSED LOW POINT
4010	PROPOSED CONTOUR
4010	EXISTING CONTOUR
	6' ROCK WALL REQUIRED
	BACK OF CURB
5'x5' PASSING ZONE REQUIRED BY BUILDER REFER TO SHEET 15 FOR DETAILS	3.50' PARKWAY (TYP)
	4' SIDEWALK (TYP) BY BUILDER

GENERAL NOTES:

1. LOCATIONS OF ALL UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES FOR THE EXACT LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES INCLUDING UTILITIES NOT SHOWN ON PLANS. THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND ANY UTILITIES NOT SHOWN ON THIS PLAN DURING CONSTRUCTION. THE CONTRACTOR WILL PERFORM ALL UTILITY INSTALLATION, REMOVAL AND RELOCATION'S AS PER LOCAL UTILITY CONSTRUCTION SPECIFICATIONS. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS ON SITE AND SHALL CONTACT THE DESIGN ENGINEER AND REPORT ANY DISCREPANCIES, OMISSIONS AND/OR ERRORS ON PLANS PRIOR TO COMMENCING WORK.

3. ALL CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH THE CITY OF EL PASO STANDARD SPECIFICATIONS AND DETAILS.

4. CONTRACTOR SHALL PERFORM ALL EARTHWORK REQUIREMENTS AS PER GEOTECHNICAL STUDY REPORT.

5. INSTALL A TRENCH SAFETY SYSTEM FOR ALL TRENCHES EXCEEDING A DEPTH OF FIVE FEET (5') AS PER OSHA STANDARDS.

6. SLOPES WHICH ARE TO RECEIVE FILL MUST BE CLEARED OF ALL VEGETATION.

7. POSITIVE DRAINAGE SHALL BE PROVIDED BY CONTRACTOR DURING ALL PHASES OF CONSTRUCTION AND GRADING. LOTS SHOULD DRAIN TOWARD STREET.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND SUBMITTAL OF ALL PERMITTING NECESSARY FOR EARTHWORK OPERATIONS AND STORM WATER POLLUTION CONTROL.

9. NOTE TO BUILDERS: RETAINING WALLS MUST BE PROVIDED WHENEVER THE GRADE DIFFERENTIAL BETWEEN LOT GRADES IS GREATER THAN 2.0 FEET. WALLS MUST BE DESIGNED AND CERTIFIED BY A CIVIL ENGINEER (FOR APPROVAL) WHEN APPLYING FOR A BUILDING PERMIT.

10. EXISTING CONTOURS, PROPOSED CONTOURS AND ELEVATIONS ARE PROVIDED TO CITY DATUM.

MAINTENANCE NOTE:

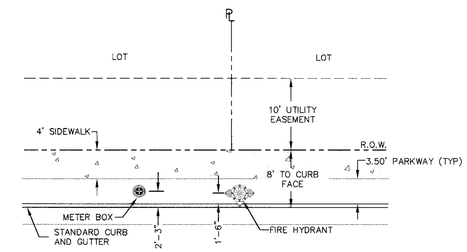
1. SLOPE AREAS SHALL BE MAINTAINED BY PROPERTY OWNER.

2. OFFSITE IMPROVEMENTS SHALL BE MAINTAINED BY DEVELOPER.

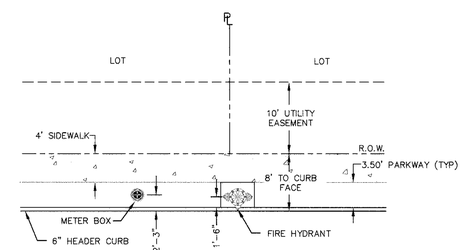
NOTE: THIS SUBDIVISION LIES WITHIN SPECIAL FLOOD HAZARD ZONE "X" AS DESIGNATED BY THE FLOOD INSURANCE RATE MAP (F.I.R.M.), CITY OF EL PASO, SEPTEMBER 4, 1991 PANEL NUMBER 480212 0125 B.

REFER TO DRAINAGE PLAN, SHEET 3, FOR LOT DESIGN

- OVERSPILL ON NATURAL SLOPES CAUSED BY GRADING OPERATIONS SHALL NOT BE ALLOWED.
- DEVELOPER SHALL STABILIZE SLOPES, IF DISTURBED, TO MINIMIZE EROSION.
- NO CONCENTRATED RUNOFF OVER UNPROTECTED SLOPES SHALL BE ALLOWED.
- A SIX-FOOT HIGH ROCK WALL, FROM HIGH SIDE, AT THE NEMEXAS DRAIN SHALL BE REQUIRED.
- DEVELOPER SHALL COMPLY WITH SECTION 13.08.170 OF THE SUBDIVISION ORDINANCE; "EXCESSIVE CUTS ON STREETS MAY RESULT IN REPAVING THE ENTIRE STREET."



TYPICAL OF R-3 LOT DESIGN



TYPICAL OF R-2 LOT DESIGN

TYPICAL LOCATION OF METER BOX AND FIRE HYDRANT

1" = 10'-0"

METER BOX NOTES:

1. SET TOP OF METER BOX SLIGHTLY HIGHER THAN SURROUNDING GROUND OR AT CURB LEVEL.

2. ANGLE VALVE SHALL BE IN LINE WITH THE INLET/OUTLET PORTS OF THE METER BOX.

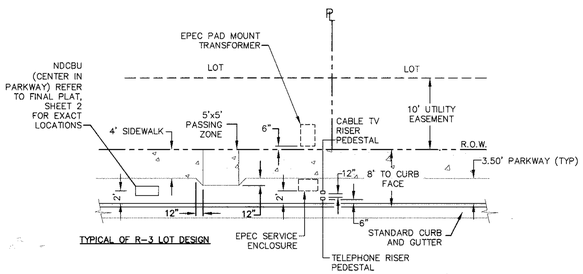
3. METER BOXES SHALL NOT BE INSTALLED UNDER SIDEWALKS, DRIVEWAYS, OR PROPOSED ABOVE GROUND STRUCTURES.

4. WHERE NO CURB EXIST, INSTALL BOXES IN ACCESSIBLE LOCATIONS BEYOND LIMITS OF STREET SURFACING, WALKS AND DRIVEWAYS.

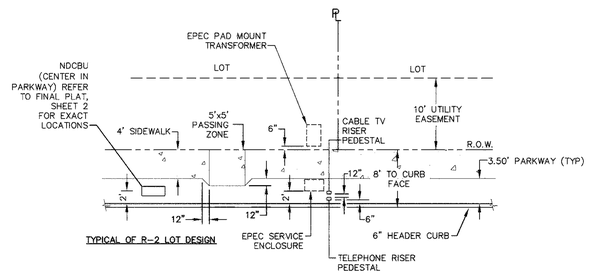
FIRE HYDRANT NOTES:

1. FIRE HYDRANT SHALL BE LOCATED AT THE PROPERTY LINE COMMON TO ADJOINING LOTS.

2. A MINIMUM CLEARANCE OF 3 FT SHALL BE PROVIDED BETWEEN A FIRE HYDRANT AND A PERMANENT OBSTRUCTION (UTILITY POLE, LIGHT STANDARD, TRAFFIC SIGNAL, WHEEL CHAIR RAMP, FENCE PROTECTIVE POSTS, etc.)



TYPICAL OF R-3 LOT DESIGN



TYPICAL OF R-2 LOT DESIGN

TYPICAL LOCATION OF TRANSFORMERS, POSTAL SERVICE NDCBU's TELEPHONE & CABLE JUNCTION BOXES

1' = 10'-0"

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LOTS 3-18, INCLUSIVE, BLOCK 3
LOTS 1, 10, 11, AND 12, BLOCK 4
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GENERAL NOTES FOR ON-SITE PONDING LOTS:

WHERE RESIDENTIAL ON-SITE PONDING IS PROPOSED, IT SHALL COMPLY WITH THE FOLLOWING PROVISIONS:

1. ALL PONDED WATER SHALL HAVE THE ABILITY TO PERCOLATE WITHIN A SEVENTY-TWO (72) HOUR TIME PERIOD FOLLOWING STORM
2. THE MAXIMUM DEPTH OF LOT PONDING SHALL BE TWELVE (12) INCHES BASED ON A ONE-HUNDRED (100) YEAR STORM.
3. THE MAXIMUM SIDE SLOPE FOR PONDING AREAS SHALL BE ONE (1-VERTICAL) TO THREE (3-HORIZONTAL).
4. ALL LOTS SHALL BE DESIGNED TO ACCOMMODATE ½ OF THE ADJACENT STREET RUNOFF
5. A PERMANENT ELEVATION MARKERS SHALL BE PLACE PRIOR TO BUILDING OCCUPANCY.
6. FILLING OR CHANGING THE LOT, OR ALLOWING THEN LOT TO BE FILLED OR CHANGED TO AN ELEVATION GREATER THAN ESTABLISHED BY THE PERMANENT ELEVATION MARKER IS PROHIBITED.
7. THE CITY SHALL BE GRANTED PERMANENT RIGHT OF ACCESS TO INSPECT THE LOT ELEVATION AND THE PERMANENT ELEVATION MARKERS.
8. IMPAIRMENT OF THE RESIDENTIAL ON-SITE PONDING IS PROHIBITED.
9. THE OWNER IS TO RESTORE THE RESIDENTIAL ON-SITE PONDING FUNCTIONALITY OF THE LOT IN THE EVENT IT IS IMPAIRED.
10. A RESTRICTION THAT NO MORE 50 PERCENT OF THE AREA OF THE RESIDENTIAL LOT CONVEYED BY THE DEED MAY EVER BE COVERED BY IMPROVEMENTS OF ANY KIND, EITHER TEMPORARY OR PERMANENT, WHICH WILL SHED STORMWATER ONTO THE LOT.

RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

NO.	DATE	DESCRIPTION	BY
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STATE OF TEXAS
JOHN C. KARLSRUHER
53878
REGISTERED PROFESSIONAL ENGINEER
7/29/08

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El Paso, Texas 79912
tel (915) 877.4155
fax (915) 877.4334
www.csadesigngroup.com

Brillo De La Luna Subdivision

GRADING PLAN

G.B. (DESIGNED BY) | D.G. – L.T. (DRAWN BY) | J.C.K. (CHECKED BY)

4042 (JOB NO.) | 01-09-06 (DATE) | AS NOTED (SCALE)

SHEET NO. 4 OF 21

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JOB No. 4042 Brillo de la Luna (Artcraft Sub)\4-BLUS\35-4042 Sht4 (Grading Plan)updated.dwg
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Jul 29, 2008 - 7:45am
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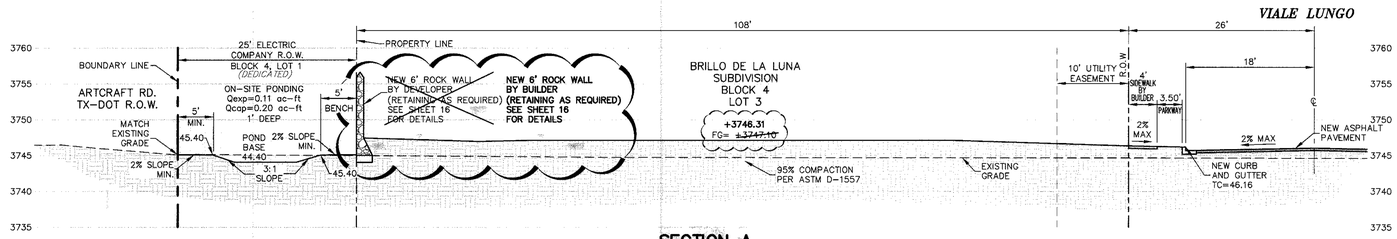
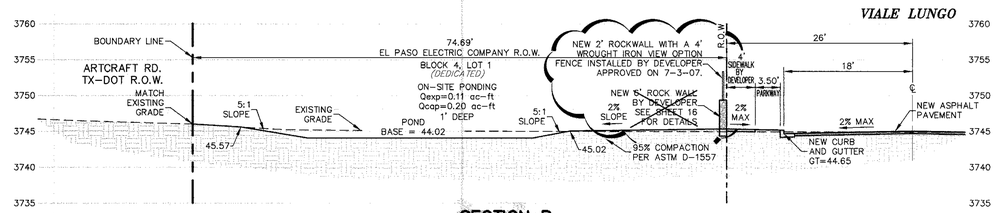


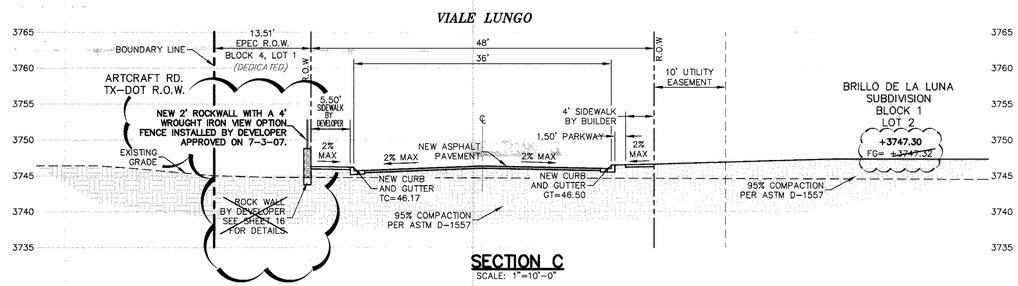
SECTION A

SCALE: 1"=10'-0"



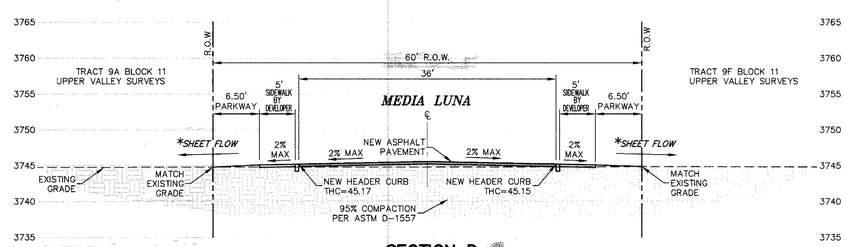
SECTION B

SCALE: 1"=10'-0"



SECTION C

SCALE: 1"=10'-0"



*RUNOFF IS SHEET FLOW FROM STREET TO ADJACENT PROPERTY. DRAINAGE TO ADJACENT PROPERTY PERMITTED AS ALL FUTURE DEVELOPMENT ALONG MEDIA LUNA COURT WILL BE REQUIRED TO COMPLY WITH ON-SITE PONDING RESTRICTIONS.

SECTION D

SCALE: 1"=10'-0"

WARNING !
BEFORE YOU DIG
CONTRACTOR SHALL
FIELD LOCATE ALL EXISTING
UNDERGROUND IMPROVEMENTS
IN PROJECT AREA

BEFORE YOU DIG –	CALL
EL PASO ELECTRIC COMPANY	543-5720
SBC	1-800-DIG-TESS
TEXAS GAS SERVICE	544-6300
EMERGENCY HOTLINE	562-8411/562-2003
PUBLIC SERVICE BOARD (WATER & SEWER)	1-800-DIG-TESS
TIME WARNER COMMUNICATIONS (CABLE)	775-7414
EL PASO NATURAL GAS CO.	1-800-334-8047
TEXAS EXCAVATION SAFETY SYSTEM	1-800-344-8377

Jul 29, 2008 - 2:46pm
S:\Dwg\4042 Brillo de la Luna (Artcraft Sub)\45-Blk13\4042 Sht5,6 (Cross Sect).dwg
gcross

RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

NO.	DATE	DESCRIPTION	BY
6	07-29-08	RECORD DRAWING	JCK
5	12-07-07	WALL CONSTRUCTION REVISION	JCK
4	06-12-07	VIEW FENCE OPTION	JCK
3	02-21-06	FINAL CITY SUBMITTAL	JCK
2	02-09-06	2nd CITY SUBMITTAL	JCK
1	01-09-06	1st CITY SUBMITTAL	JCK

7/29/08
STATE OF TEXAS
JOHN C. KARLSRUHER
53878
REGISTERED PROFESSIONAL ENGINEER

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El Paso, Texas 79912
tel [915] 877.4155
fax [915] 877.4334
www.csaengineers.com

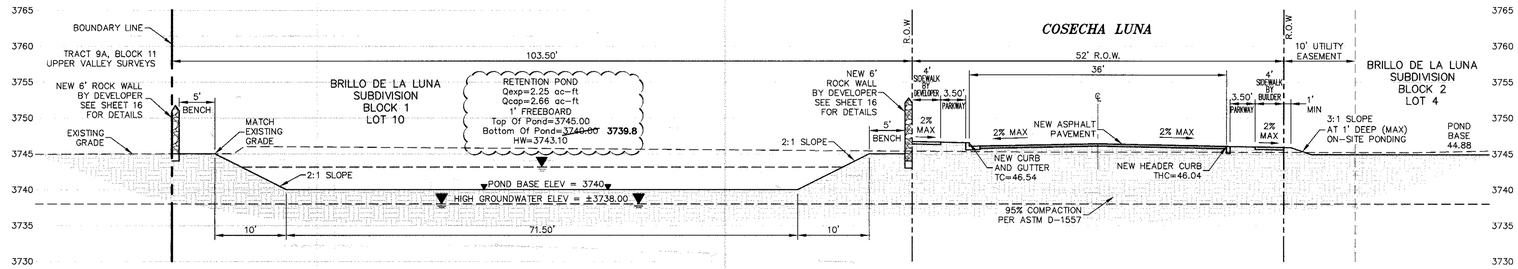
Brillo De La Luna Subdivision

CROSS SECTIONS

G.B. (DESIGNED BY) | D.G. – L.T. (DRAWN BY) | J.C.K. (CHECKED BY)

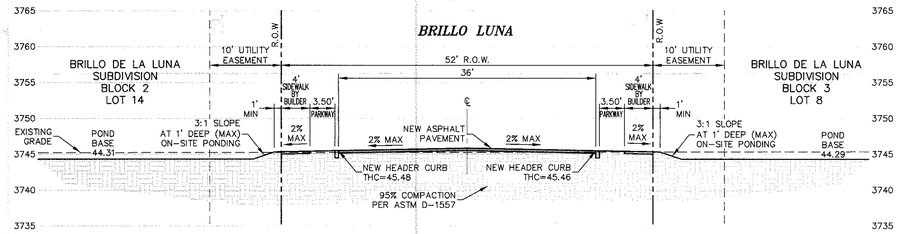
4042 (JOB NO.) | 01-09-06 (DATE) | AS NOTED (SCALE)

SHEET NO. 5 OF 21



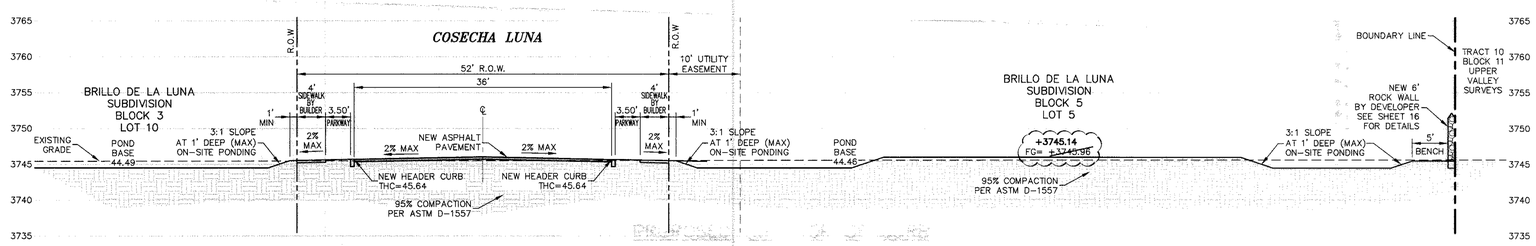
SECTION E

SCALE: 1"=10'-0"



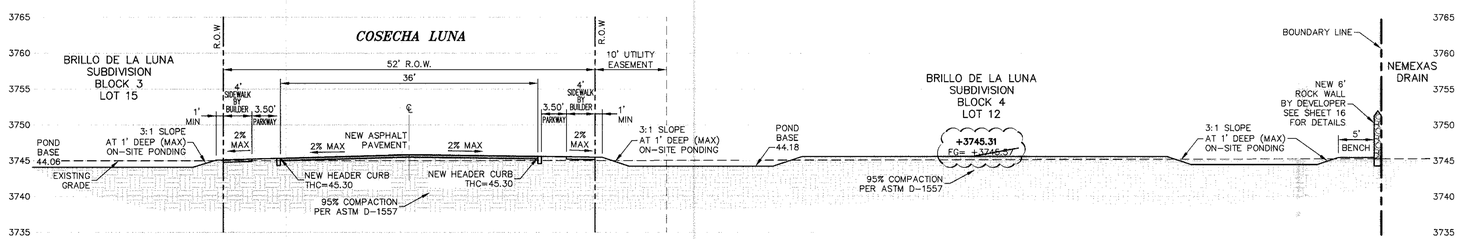
SECTION F

SCALE: 1"=10'-0"



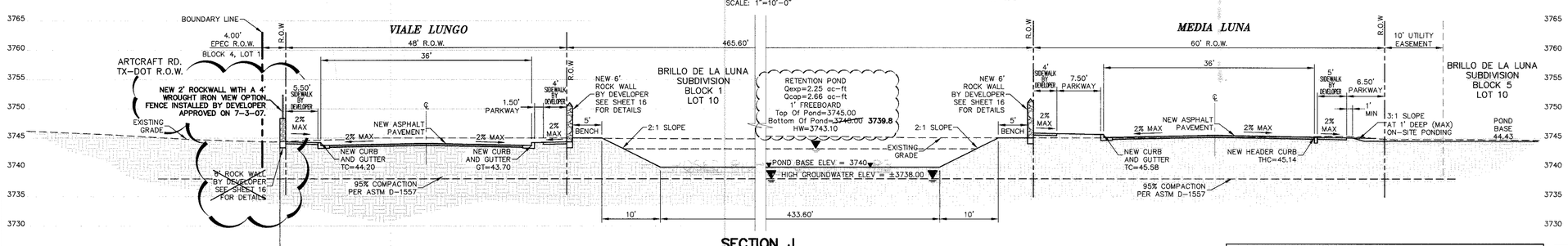
SECTION G

SCALE: 1"=10'-0"



SECTION H

SCALE: 1"=10'-0"



SECTION J

SCALE: 1"=10'-0"

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TIME WARNER COMMUNICATIONS (CABLE)	775-7414
EL PASO NATURAL GAS CO.	1-800-334-8047
TEXAS EXCAVATION SAFETY SYSTEM	1-800-344-8377

Jul 28, 2008 – 2:50pm S:\Dwg\4042 Brillo de la Luna (Aircraft Sub)\VS-BUILT\4042 SHEET Cross Section.dwg

RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

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2	02-09-06	2nd CITY SUBMITTAL	JCK
1	01-09-06	1st CITY SUBMITTAL	JCK

STATE OF TEXAS
JOHN C. KARLSRUHER
53878
REGISTERED PROFESSIONAL ENGINEER
7/29/08

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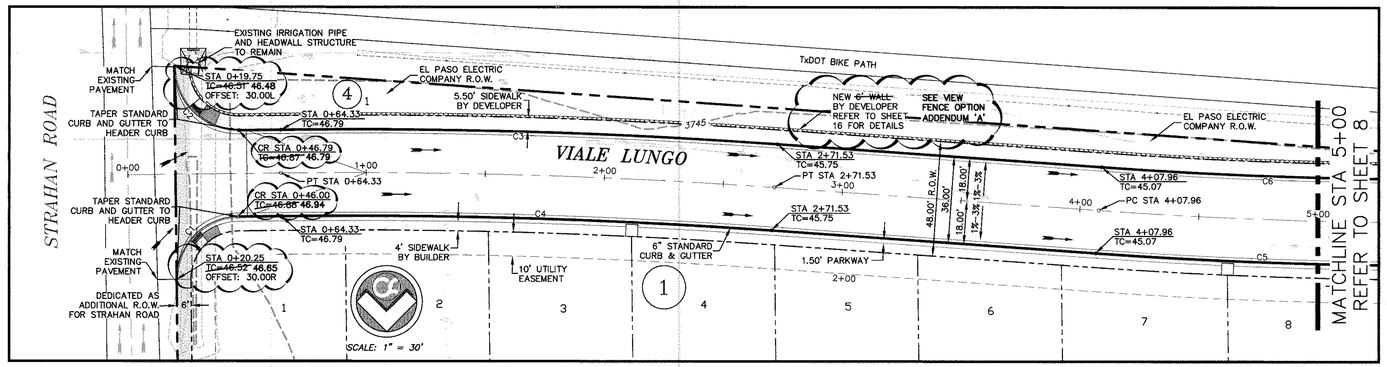
Brillo De La Luna Subdivision

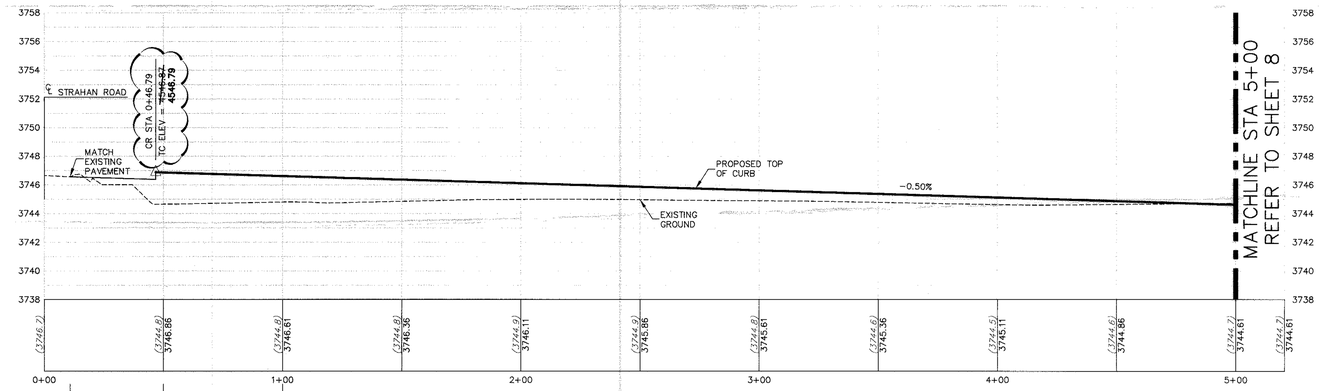
CROSS SECTIONS

G.B. DESIGNED BY | D.G. – L.T. DRAWN BY | J.C.K. CHECKED BY

4042 JOB NO.
01-09-06 DATE
AS NOTED SCALE
SHEET NO. 6 OF 21

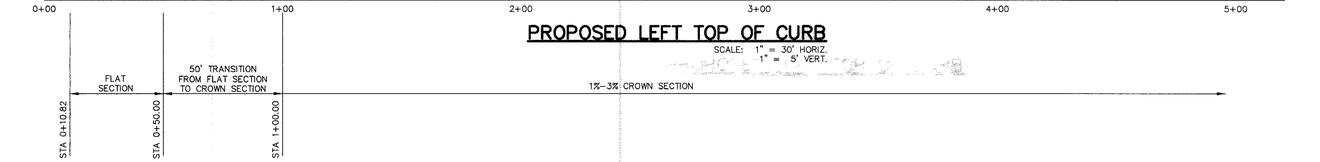


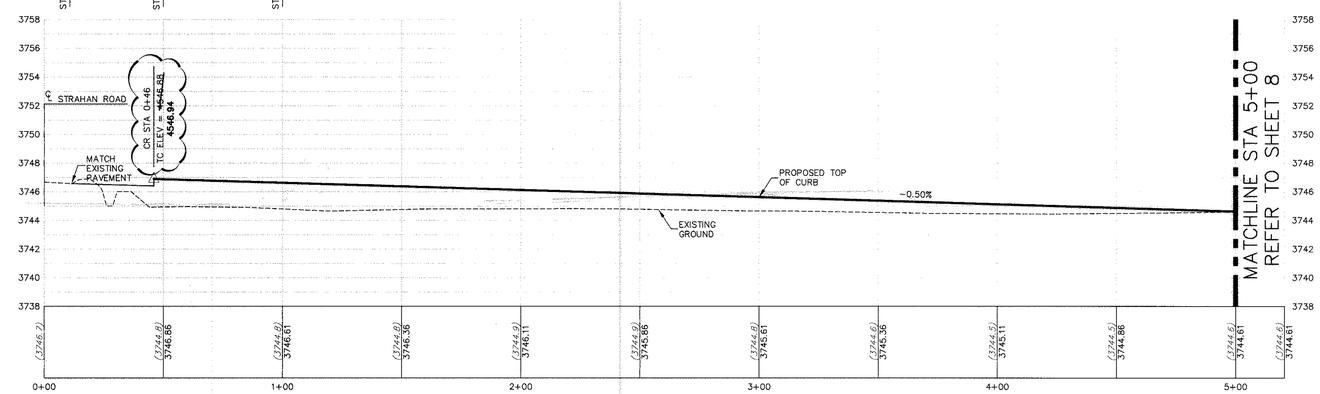
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	26.00	40.84	26.00	36.77	N44°44'00"E	90°00'00"
C2	26.79	42.09	26.79	37.89	N45°16'00"W	90°00'00"
C3	2542.00	208.67	104.39	208.61	S87°54'54"E	4°42'12"
C6	2506.00	205.71	102.91	205.66	S87°54'54"E	4°42'12"
C5	2075.14	145.71	72.88	145.68	N87°34'30"W	4°01'23"
C6	2039.14	143.18	71.62	143.15	N87°34'30"W	4°01'23"



PROPOSED LEFT TOP OF CURB

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





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SCALE: 1" = 30' HORIZ.
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TIME WARNER COMMUNICATIONS (CABLE)	775-7414
EL PASO NATURAL GAS CO.	1-800-334-8047
TEXAS EXCAVATION SAFETY SYSTEM	1-800-344-8377

LEGEND

- LOT LINE
- UTILITY EASEMENT
- CENTER LINE OF STREET
- STREET R.O.W.
- SUBDIVISION BOUNDARY LINE
- 4" ROLLED CURB
- DIRECTION OF RUNOFF FLOW
- 3728.85 PROPOSED TOP OF CURB FINISHED GRADES
- (3729.2) EXISTING GRADE
- TC=08.09 PROPOSED TOP OF CURB ELEVATION
- PVMT=08.65 PROPOSED PAVEMENT ELEVATION
- HIGH POINT
- LOW POINT
- POINT OF VERTICAL INTERSECTION
- PROPOSED CITY MONUMENT SEE DETAIL SHT 15
- 50' TRANSITION AT INTERSECTION
- 4' HANDICAP RAMP SEE DETAIL SHT 15
- 5'x5' PASSING ZONE BY BUILDER — BACK OF CURB; 3.50' PARKWAY (TYP); 4' SIDEWALK (TYP) BY BUILDER

RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

NO.	DATE	DESCRIPTION	BY
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1	01-09-06	1st CITY SUBMITTAL	JCK

STATE OF TEXAS
JOHN C. KARLSRUHER
53878
REGISTERED PROFESSIONAL ENGINEER
7/29/08

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Brillo De La Luna Subdivision

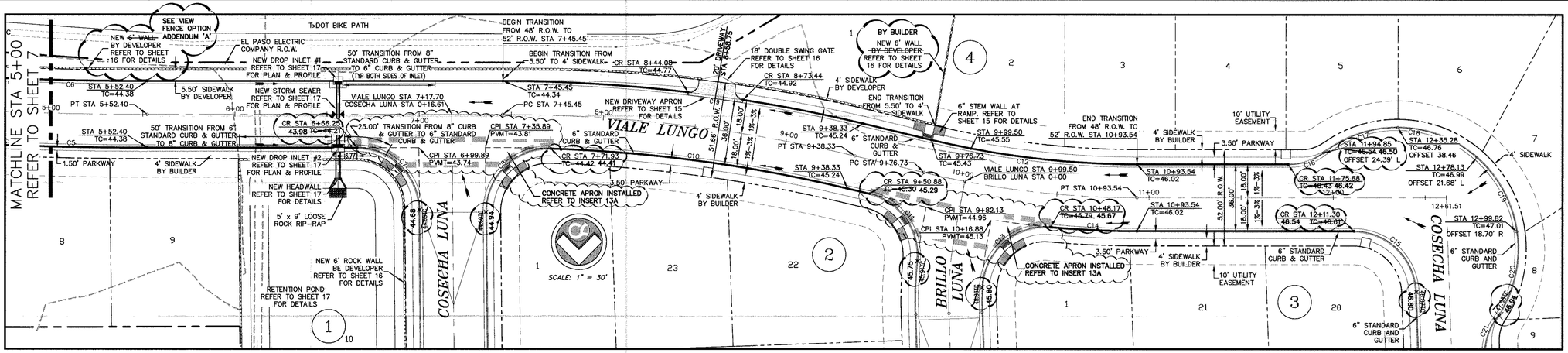
VIALE LUNGO PLAN & PROFILE

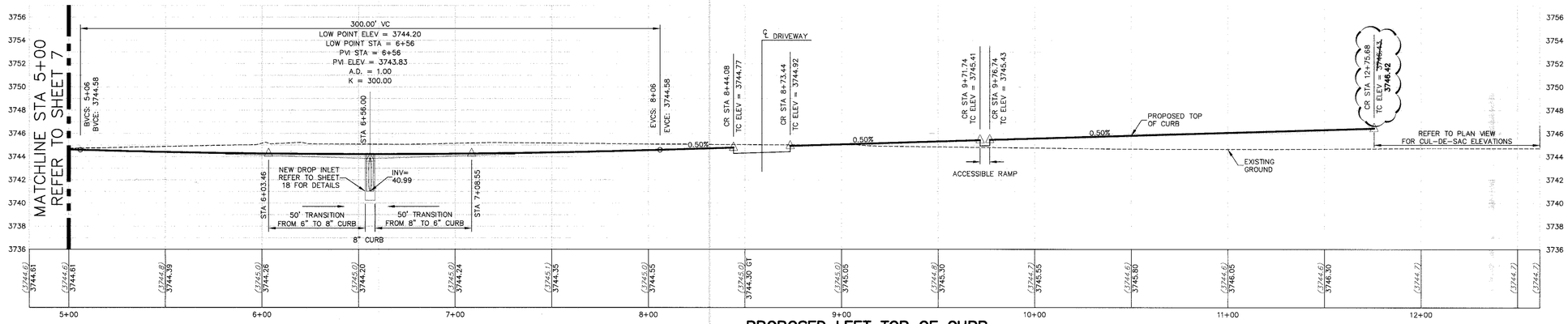
G.B. DESIGNED BY | D.G. – L.T. DRAWN BY | J.C.K. CHECKED BY

4042 JOB NO.
01-09-06 DATE
AS NOTED SCALE
SHEET NO. 7 OF 21

Jul 28, 2008 – 3:10pm
S:\Dwg\4042 Brillo de la Luna (Antonio Sub)\SI-BUILD\4042 SHT.8 (Viale Lungo P&P).dwg

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C5	2075.14	145.71	72.88	145.68	N87°34'30"W	4°01'23"
C6	2039.14	143.18	71.62	143.15	N87°34'30"W	4°01'23"
C7	34.00	53.04	33.64	47.82	S44°53'42"E	89°22'59"
C8	34.00	54.86	35.49	49.10	N46°01'26"E	92°27'16"
C9	843.96	197.09	98.99	196.64	S82°53'47"E	13°22'48"
C10	807.96	162.77	81.66	162.49	S81°58'40"E	11°32'34"
C11	34.00	48.77	29.65	44.69	S35°06'53"E	82°11'00"
C12	482.00	112.61	56.56	112.35	N82°53'57"W	13°23'09"
C13	34.00	55.17	35.81	49.31	N49°07'10"E	92°58'25"
C14	518.00	47.00	23.52	46.98	N86°59'35"W	5°11'55"
C15	34.00	52.22	32.83	47.23	S45°35'46"E	87°59'32"
C16	30.00	19.75	10.25	19.40	S71°32'51"W	37°43'14"
C17	65.50	43.48	22.58	42.69	N71°42'22"E	38°02'17"
C18	65.50	46.83	24.47	45.84	S68°47'37"E	40°57'45"
C19	65.50	46.82	24.46	45.83	S27°49'58"E	40°57'33"
C20	65.50	49.70	26.11	48.52	S14°23'01"W	43°28'25"
C21	30.00	19.75	10.25	19.40	N17°15'37"E	37°43'14"

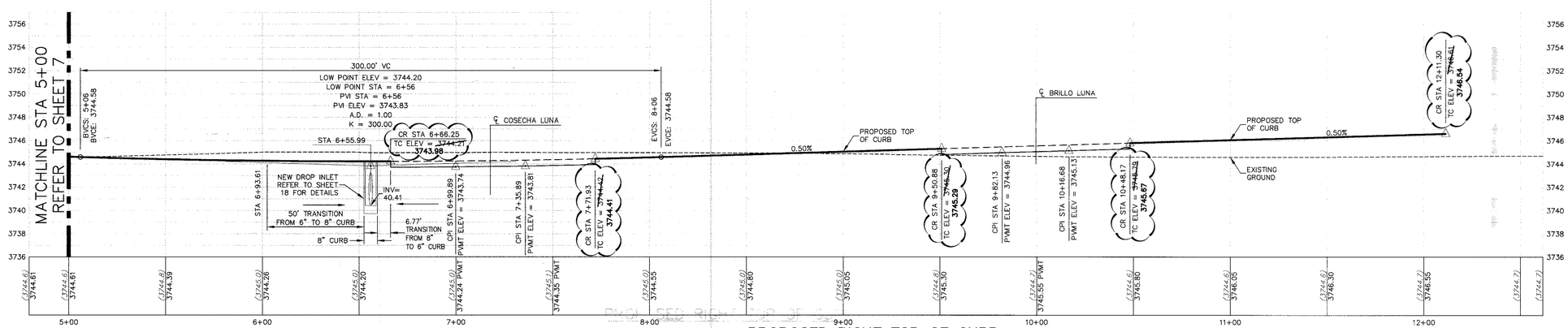




PROPOSED LEFT TOP OF CURB

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

1%-3% CROWN SECTION



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TIME WARNER COMMUNICATIONS (CABLE)	775-7414
EL PASO NATURAL GAS CO.	1-800-334-8047
TEXAS EXCAVATION SAFETY SYSTEM	1-800-344-8377

LEGEND

- LOT LINE
- UTILITY EASEMENT
- CENTER LINE OF STREET
- STREET R.O.W.
- SUBDIVISION BOUNDARY LINE
- 4" ROLLED CURB
- DIRECTION OF RUNOFF FLOW
- 3728.85 PROPOSED TOP OF CURB FINISHED GRADES
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- TC=08.09 PROPOSED TOP OF CURB ELEVATION
- PVMT=08.65 PROPOSED PAVEMENT ELEVATION
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- PROPOSED CITY MONUMENT SEE DETAIL SHT 15
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- 4' HANDICAP RAMP SEE DETAIL SHT 15
- 5'x5' PASSING ZONE BY BUILDER
- BACK OF CURB
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- 4' SIDEWALK (TYP) BY BUILDER

RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

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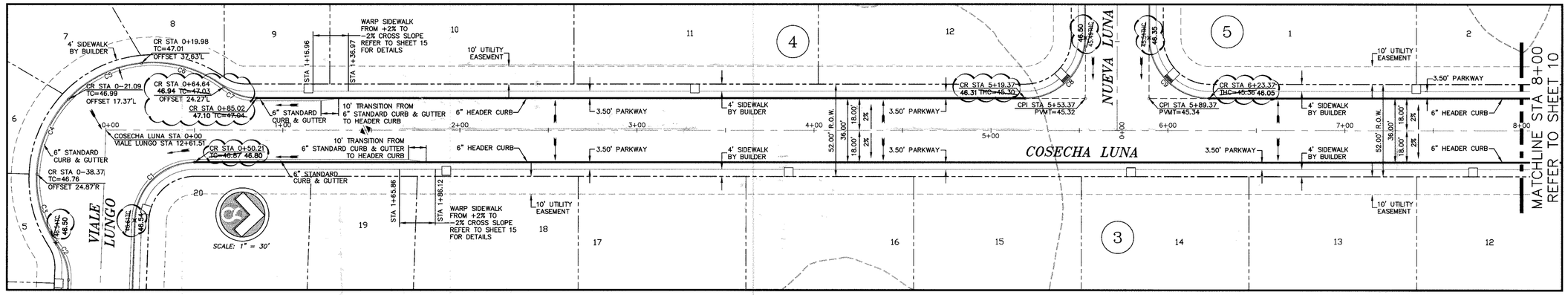
Brillo De La Luna Subdivision

VIALE LUNGO PLAN & PROFILE

G.B. DESIGNED BY | D.G. – L.T. DRAWN BY | J.C.K. CHECKED BY

4042 JOB NO.
01-09-06 DATE
AS NOTED SCALE
SHEET NO. 8 OF 21

jul 28, 2008 - 3:18pm S:\Dwg\4042 Brillo de la Luna (Airport Sub)\05-Roll\5\4042 SHT8 (View Lungo Plan).dwg gbarcena



CURVE

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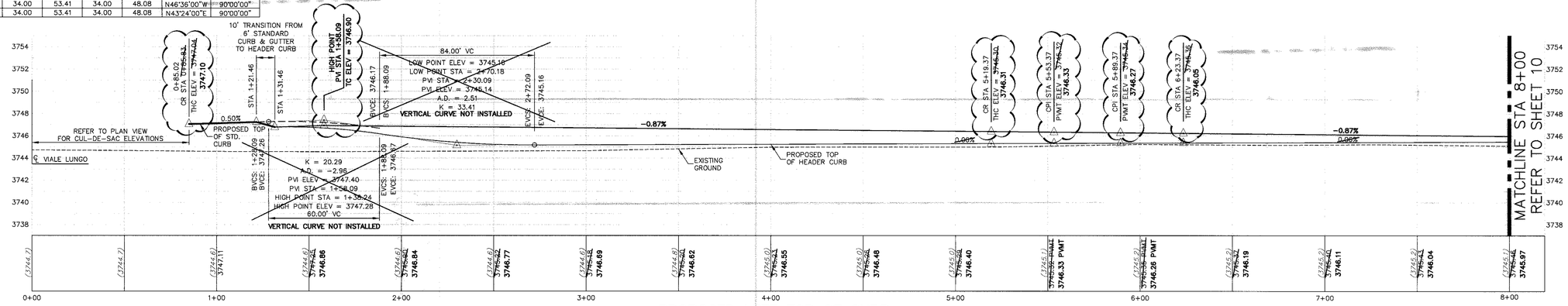
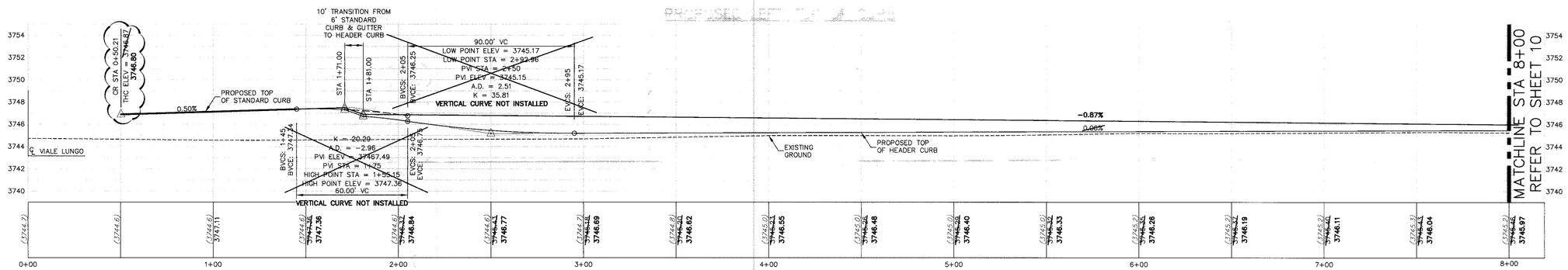
C3	65.50	43.48	22.58	42.69	N71°42'22"E	38°02'17"
C4	65.50	46.83	24.47	45.84	S68°47'37"E	40°57'45"
C5	65.50	46.82	24.46	45.83	S27°49'58"E	40°57'33"
C6	65.50	49.70	26.11	48.52	S14°23'01"W	43°28'25"
C7	30.00	19.75	10.25	19.40	N17°15'37"E	37°43'14"
C8	34.00	53.41	34.00	48.08	N46°36'00"W	90°00'00"
C9	34.00	53.41	34.00	48.08	N43°24'00"E	90°00'00"





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REGISTERED PROFESSIONAL ENGINEER
7/29/08

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csa design group, inc.
1845 Northwestern Dr. Ste C
El Paso, Texas 79912
tel (915) 877.4155
fax (915) 877.4334
www.csaengineers.com

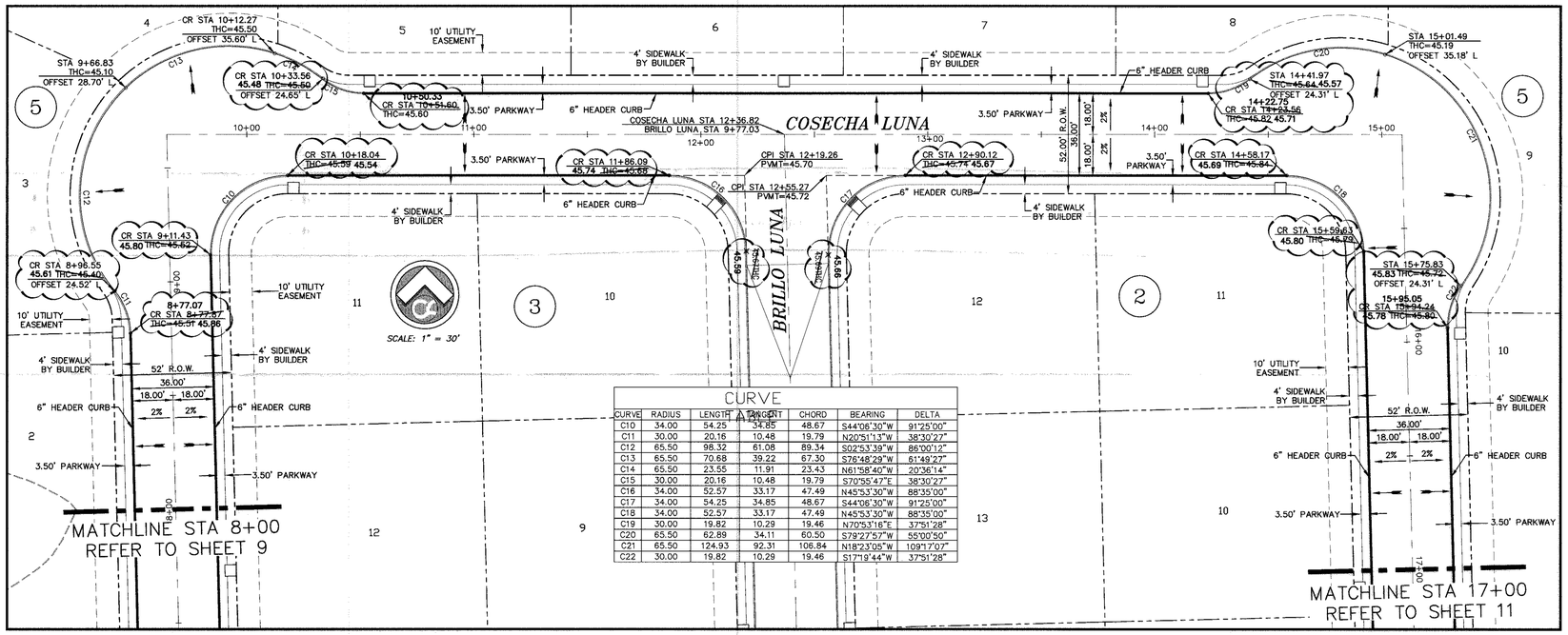
Brillo De La Luna Subdivision

COSECHA LUNA PLAN & PROFILE

G.B. DESIGNED BY | D.G. – L.T. DRAWN BY | J.C.K. CHECKED BY

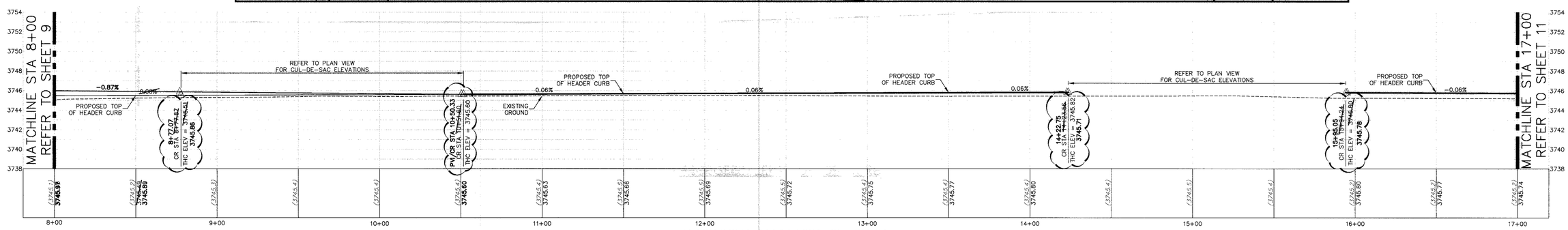
JOB NO. 4042
DATE 01-09-06
SCALE AS NOTED
SHEET NO. 9 OF 21

S:\CSA 2006 - 3.17.pm
S:\Dwg\4042 Brillo de la Luna (Antcroft Sub)\AS-Built\SHEET\4042 SHB 10.11 (Cosecha).dwg
gcross



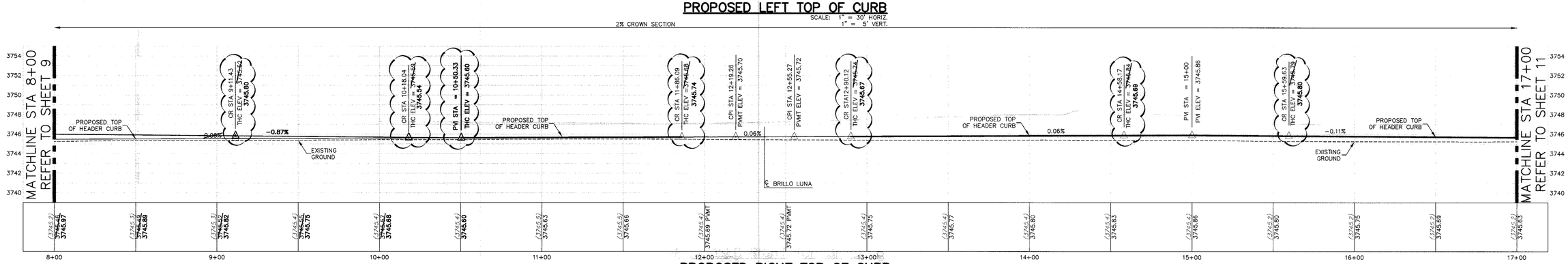
CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C10	34.00	54.25	34.85	48.67	S44°06'30"W	91°25'00"
C11	30.00	20.16	10.48	19.79	N20°51'13"W	38°30'27"
C12	65.50	98.32	61.08	89.34	S02°53'39"W	86°00'12"
C13	65.50	70.68	39.22	67.30	S76°48'29"W	61°49'27"
C14	65.50	23.55	11.91	23.43	N61°58'40"W	20°36'14"
C15	30.00	20.16	10.48	19.79	S70°55'47"E	38°30'27"
C16	34.00	52.57	33.17	47.49	N45°53'30"W	88°35'00"
C17	34.00	54.25	34.85	48.67	S44°06'30"W	91°25'00"
C18	34.00	52.57	33.17	47.49	N45°53'30"W	88°35'00"
C19	30.00	19.82	10.29	19.46	N70°53'16"E	37°51'28"
C20	65.50	62.89	34.11	60.50	S79°27'57"W	55°00'50"
C21	65.50	124.93	92.31	106.84	N18°23'05"W	109°17'07"
C22	30.00	19.82	10.29	19.46	S17°19'44"W	37°51'28"



PROPOSED LEFT TOP OF CURB

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



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WARNING !
BEFORE YOU DIG
CONTRACTOR SHALL
FIELD LOCATE ALL EXISTING
UNDERGROUND IMPROVEMENTS
IN PROJECT AREA

BEFORE YOU DIG –	CALL
EL PASO ELECTRIC COMPANY	543–5720
SBC	1–800–DIG–TESS
TEXAS GAS SERVICE	544–6300
EMERGENCY HOTLINE	562–8411/562–2003
PUBLIC SERVICE BOARD (WATER & SEWER)	1–800–DIG–TESS
TIME WARNER COMMUNICATIONS (CABLE)	775–7414
EL PASO NATURAL GAS CO.	1–800–334–8047
TEXAS EXCAVATION SAFETY SYSTEM	1–800–344–8377

LEGEND

- LOT LINE
- UTILITY EASEMENT
- CENTER LINE OF STREET
- STREET R.O.W.
- SUBDIVISION BOUNDARY LINE
- 4" ROLLED CURB
- DIRECTION OF RUNOFF FLOW
- 3728.85 — PROPOSED TOP OF CURB FINISHED GRADES
- (3729.2) — EXISTING GRADE
- TC=08.09 — PROPOSED TOP OF CURB ELEVATION
- PVMT=08.65 — PROPOSED PAVEMENT ELEVATION
- HIGH POINT
- LOW POINT
- POINT OF VERTICAL INTERSECTION
- PROPOSED CITY MONUMENT SEE DETAIL SHT 15
- 50' TRANSITION AT INTERSECTION
- 4' HANDICAP RAMP SEE DETAIL SHT 15
- BACK OF CURB; 5'x5' PASSING ZONE BY BUILDER; 3.50' PARKWAY (TYP); 4' SIDEWALK (TYP) BY BUILDER

RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

NO.	DATE	DESCRIPTION	BY
6	07–29–08	RECORD DRAWING	JCK
5	12–07–07	WALL CONSTRUCTION REVISION	JCK
4	06–12–07	VIEW FENCE OPTION	JCK
3	02–21–06	FINAL CITY SUBMITTAL	JCK
2	02–09–06	2nd CITY SUBMITTAL	JCK
1	01–09–06	1st CITY SUBMITTAL	JCK

STATE OF TEXAS
JOHN C. KARLSRUHER
53878
REGISTERED PROFESSIONAL ENGINEER
7/29/08

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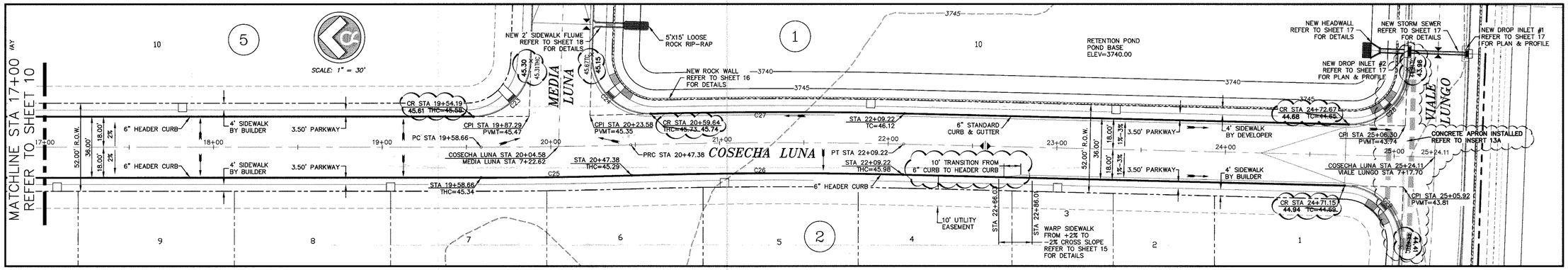
Brillo De La Luna Subdivision

COSECHA LUNA PLAN & PROFILE

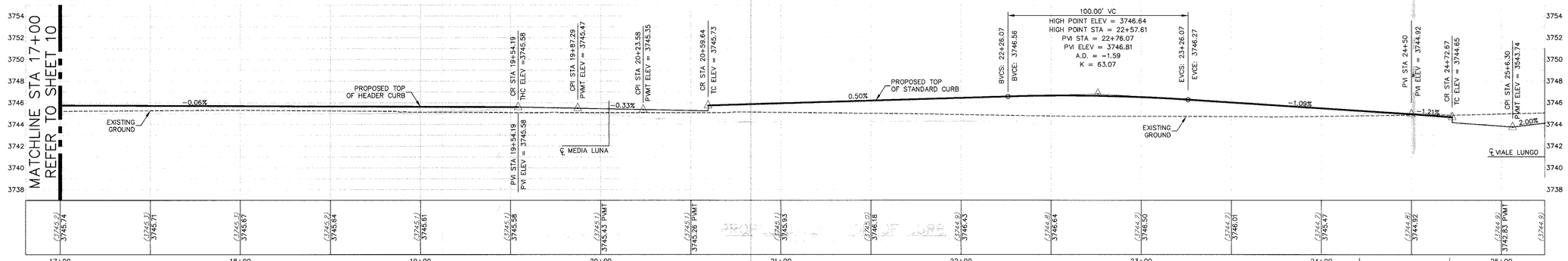
G.B. — DESIGNED BY | D.G. – L.T. — DRAWN BY | J.C.K. — CHECKED BY

JOB NO. 4042
DATE 01–09–06
SCALE AS NOTED
SHEET NO. 10 OF 21

Jul 28, 2008 – 3:21pm
S:\Dwg\4042 Brillo de la Luna (Vincent Sub)\AS-BUILTS\4042 SHT8-10,11 (Cosecha).dwg

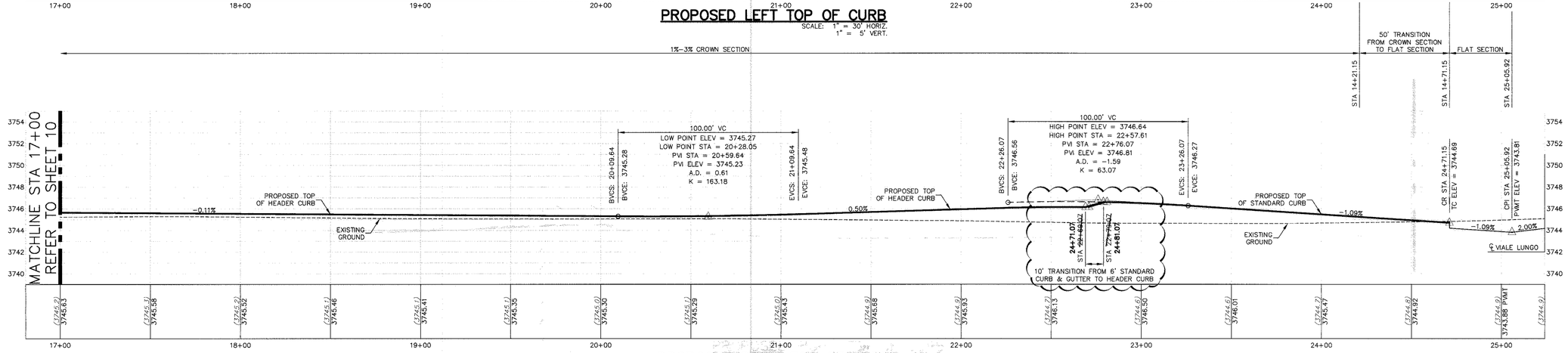


CURVE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C23	34.00	52.33	32.94	47.31	S45°41'30"E	88°11'00"
C24	34.00	55.35	36.00	49.44	S43°34'42"W	93°16'37"
C25	3018.00	89.25	44.63	89.24	S02°26'50"E	1°41'40"
C26	2982.00	160.87	80.45	160.85	N01°44'56"W	3°05'27"
C27	3018.00	150.48	75.25	150.46	N01°37'54"W	2°51'24"
C28	34.00	53.04	33.64	47.82	S44°53'42"E	89°22'59"
C29	34.00	54.86	35.49	49.10	N46°01'26"E	92°27'16"



PROPOSED LEFT TOP OF CURB

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



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EL PASO NATURAL GAS CO.	1-800-334-8047
TEXAS EXCAVATION SAFETY SYSTEM	1-800-344-8377

LEGEND

- LOT LINE
- UTILITY EASEMENT
- CENTER LINE OF STREET
- STREET R.O.W.
- SUBDIVISION BOUNDARY LINE
- 4" ROLLED CURB
- DIRECTION OF RUNOFF FLOW
- 3728.85 PROPOSED TOP OF CURB FINISHED GRADES
- (3729.2) EXISTING GRADE
- TC=08.09 PROPOSED TOP OF CURB ELEVATION
- PVMT=08.65 PROPOSED PAVEMENT ELEVATION
- HIGH POINT
- LOW POINT
- POINT OF VERTICAL INTERSECTION
- PROPOSED CITY MONUMENT SEE DETAIL SHT 15
- 50' TRANSITION AT INTERSECTION
- 4' HANDICAP RAMP SEE DETAIL SHT 15
- 5'x5' PASSING ZONE BY BUILDER; BACK OF CURB; 3.50' PARKWAY (TYP); 4' SIDEWALK (TYP) BY BUILDER

NO.	DATE	DESCRIPTION	BY
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1	01-09-06	1st CITY SUBMITTAL	JCK

STATE OF TEXAS
JOHN C. KARLSRUHER
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RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

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Brillo De La Luna Subdivision

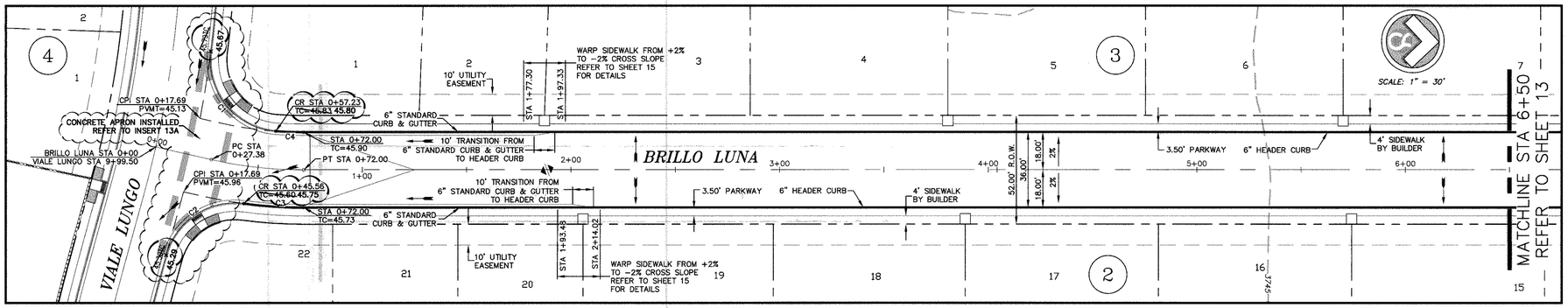
COSECHA LUNA PLAN & PROFILE

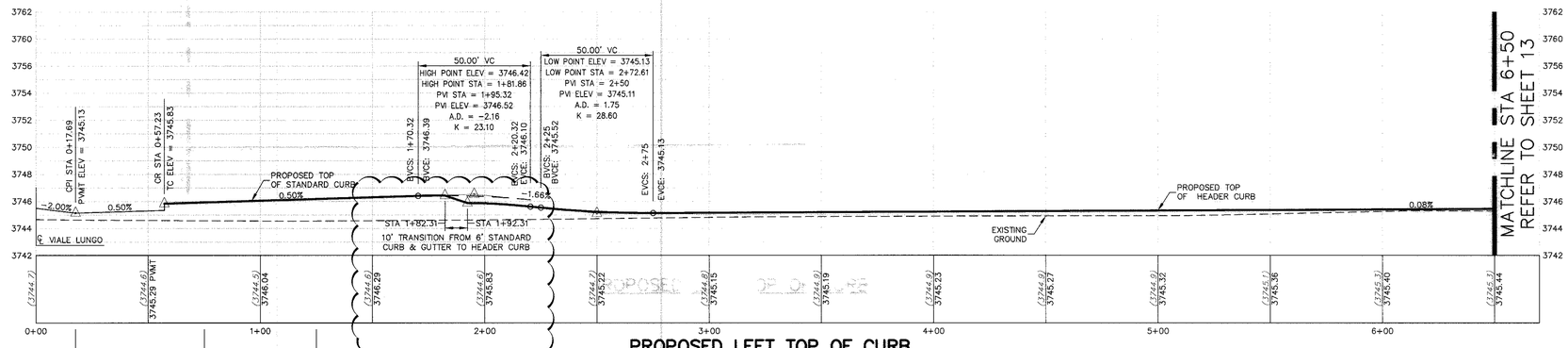
G.B. DESIGNED BY | D.G. – L.T. DRAWN BY | J.C.K. CHECKED BY

4042 JOB NO.
01-09-06 DATE
AS NOTED SCALE
SHEET NO. 11 OF 21

Jul 28, 2008 - 3:24pm
S:\Dwg\4042 Brillo de la Luna (Antcliff Sub)\R-BLLTS\4042 SHB-10.11 (Cosecha).dwg
gcastes

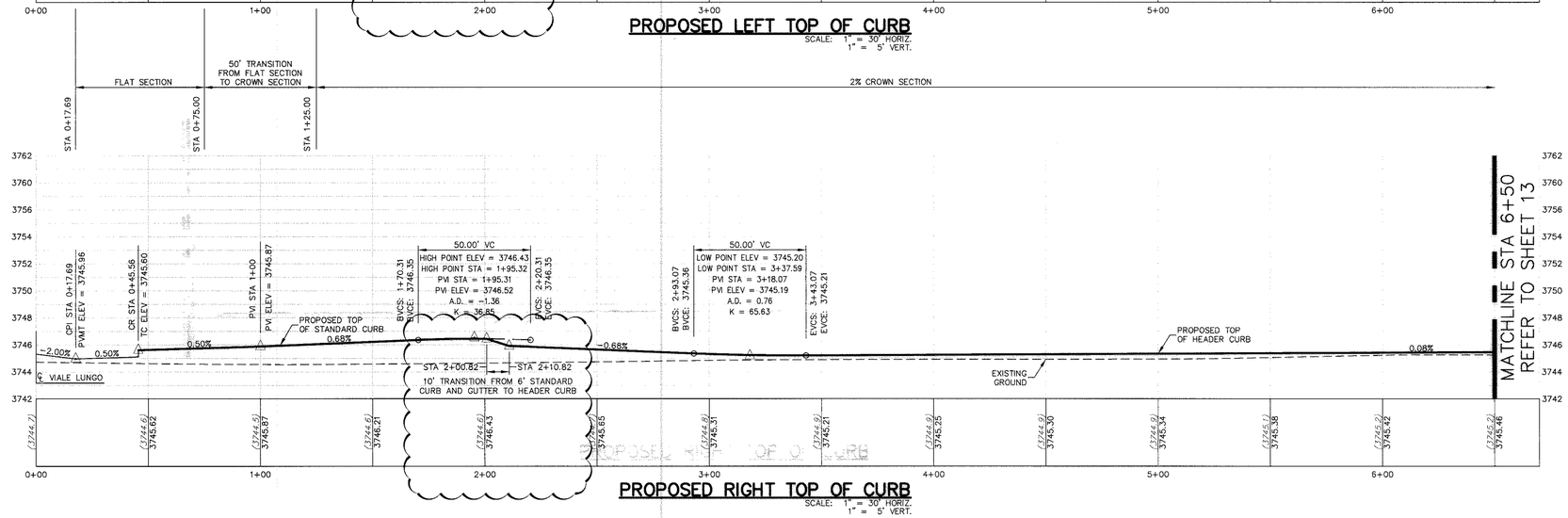
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	34.00	55.17	35.81	49.31	N49°07'10"E	92°58'25"
C2	34.00	48.77	29.65	44.69	S35°06'53"E	82°11'00"
C3	218.00	28.83	14.44	28.81	N02°11'18"E	7°34'37"
C4	182.00	13.45	6.73	13.44	N00°30'59"E	4°13'58"





PROPOSED LEFT TOP OF CURB

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



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TEXAS EXCAVATION SAFETY SYSTEM	1-800-344-8377

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RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

NO.	DATE	DESCRIPTION	BY
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3	02-21-06	FINAL CITY SUBMITTAL	JCK
2	02-09-06	2nd CITY SUBMITTAL	JCK
1	01-09-06	1st CITY SUBMITTAL	JCK

STATE OF TEXAS
JOHN C. KARLSRUHER
53878
REGISTERED PROFESSIONAL ENGINEER
7/29/08

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Brillo De La Luna Subdivision

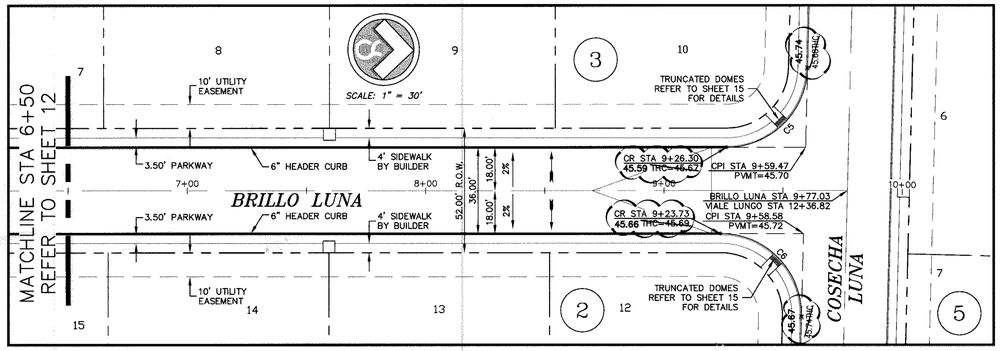
BRILLO LUNA PLAN & PROFILE

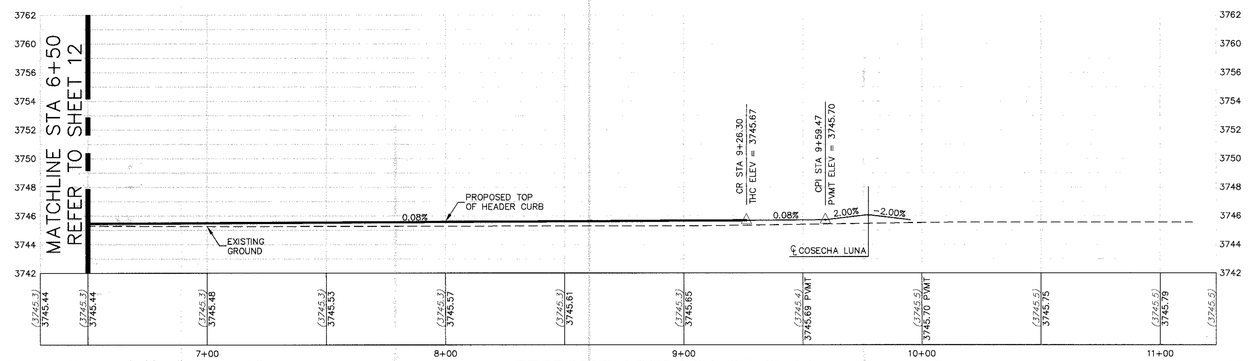
G.B. DESIGNED BY | D.G. – L.T. DRAWN BY | J.C.K. CHECKED BY

4042 JOB NO.
01-09-06 DATE
AS NOTED SCALE
SHEET NO. 12 OF 21

Jul 29, 2008 3:23pm
S:\Dwg\4042 Brillo de la Luna (Ancort Sub)\AS-Built\S14042 Sht12.13 (Brillo PMP).dwg
gbarcena

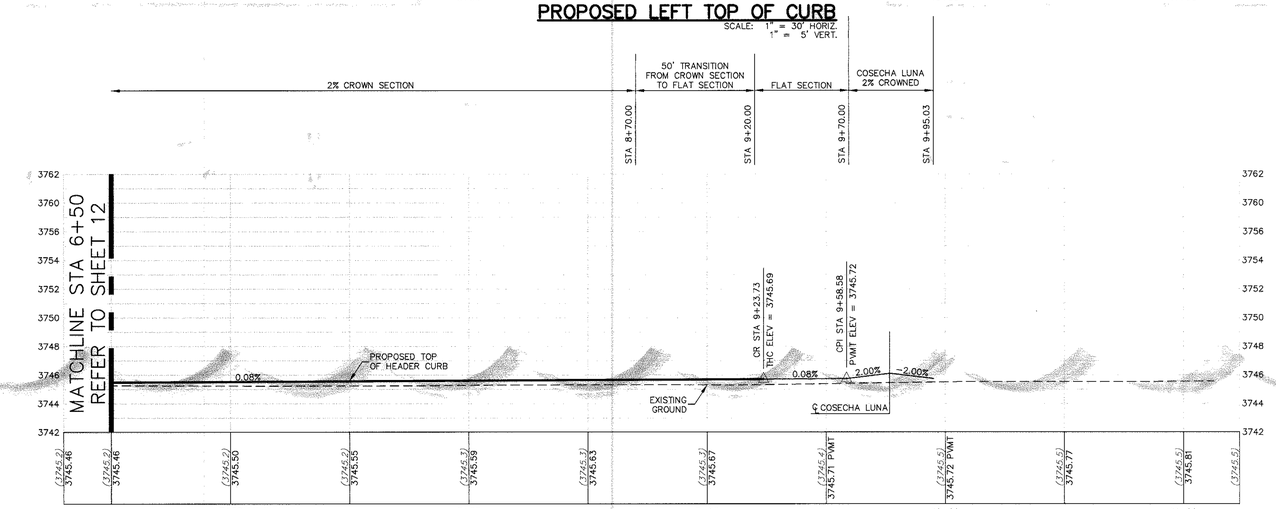
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C5	34.00	52.57	33.17	47.49	N45°53'30"W	88°35'00"
C6	34.00	54.25	34.85	48.67	S44°06'30"W	91°25'00"





PROPOSED LEFT TOP OF CURB

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



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LEGEND

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RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

NO.	DATE	DESCRIPTION	BY
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4	06-12-07	VIEW FENCE OPTION	JCK
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STATE OF TEXAS
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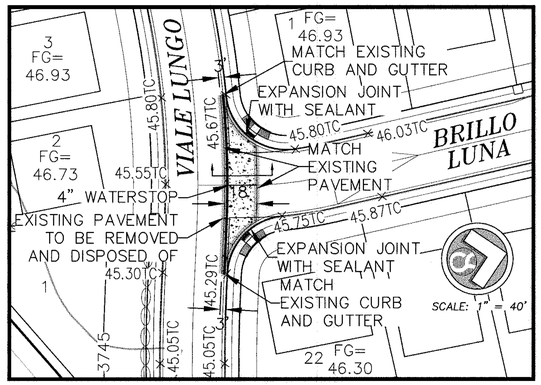
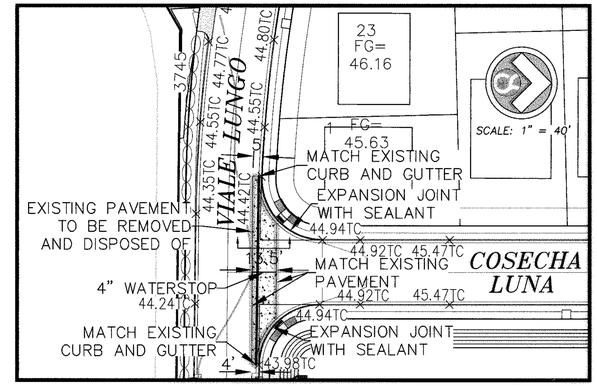
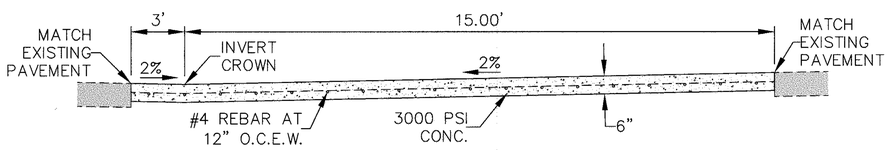
JOB NO. 4042
DATE 01-09-06
SCALE AS NOTED
SHEET NO. 13 OF 21

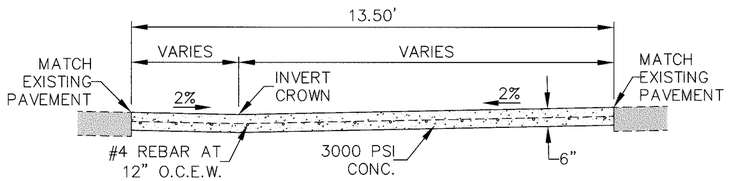
Jul 29, 2008 - 3:30pm
S:\Dwg\4042 Brillo de la Luna (Intercott Sub)\45-Blu\13\4042 Sht12.13 (Brillo Ralph).dwg
gcrocos







SCALE: NOT TO SCALE



SCALE: NOT TO SCALE

ASPHALT REMOVED AND CONCRETE
APRONS INSTALLED AS SHOWN.

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- UTILITY EASEMENT
- CENTER LINE OF STREET
- STREET R.O.W.
- SUBDIVISION BOUNDARY LINE
- 4" ROLLED CURB
- DIRECTION OF RUNOFF FLOW
- 3728.85 — PROPOSED TOP OF CURB FINISHED GRADES
- (3729.2) — EXISTING GRADE
- TC=08.09 — PROPOSED TOP OF CURB ELEVATION
- PVMT=08.65 — PROPOSED PAVEMENT ELEVATION
- HIGH POINT
- LOW POINT
- POINT OF VERTICAL INTERSECTION
- PROPOSED CITY MONUMENT SEE DETAIL SHT 15
- 50' TRANSITION AT INTERSECTION
- 4' HANDICAP RAMP SEE DETAIL SHT 15
- 5'x5' PASSING ZONE BY BUILDER
- BACK OF CURB
- 3.50' PARKWAY (TYP)
- 4' SIDEWALK (TYP) BY BUILDER

RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

NO.	DATE	DESCRIPTION	BY
6	07-29-08	RECORD DRAWING	JCK
5	12-07-07	WALL CONSTRUCTION REVISION	JCK
4	06-12-07	VIEW FENCE OPTION	JCK
3	02-21-06	FINAL CITY SUBMITTAL	JCK
2	02-09-06	2nd CITY SUBMITTAL	JCK
1	01-09-06	1st CITY SUBMITTAL	JCK

STATE OF TEXAS
JOHN C. KARLSRUHER
53878
REGISTERED PROFESSIONAL ENGINEER
7/29/08

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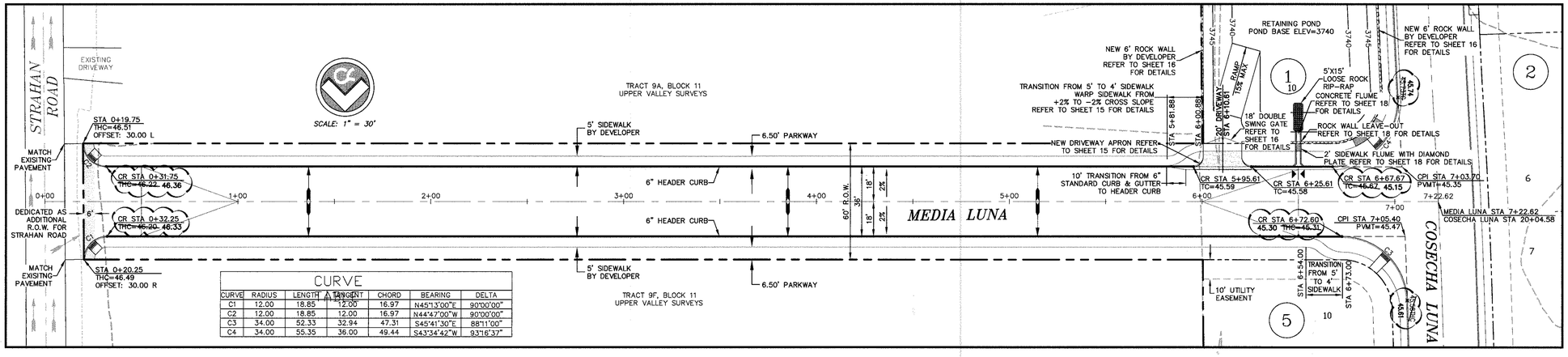
Brillo De La Luna Subdivision

CONCRETE APRONS

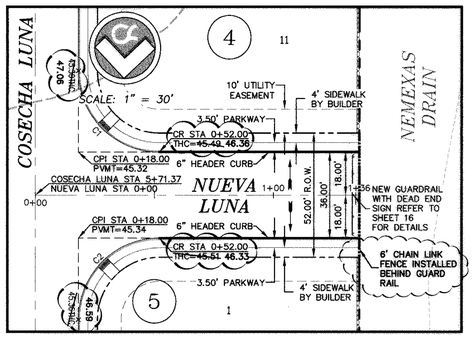
G.B. (DESIGNED BY) | D.G. – L.T. (DRAWN BY) | J.C.K. (CHECKED BY)

4042 (JOB NO.)
01-09-06 (DATE)
AS NOTED (SCALE)
INSERT **13A** of **21**

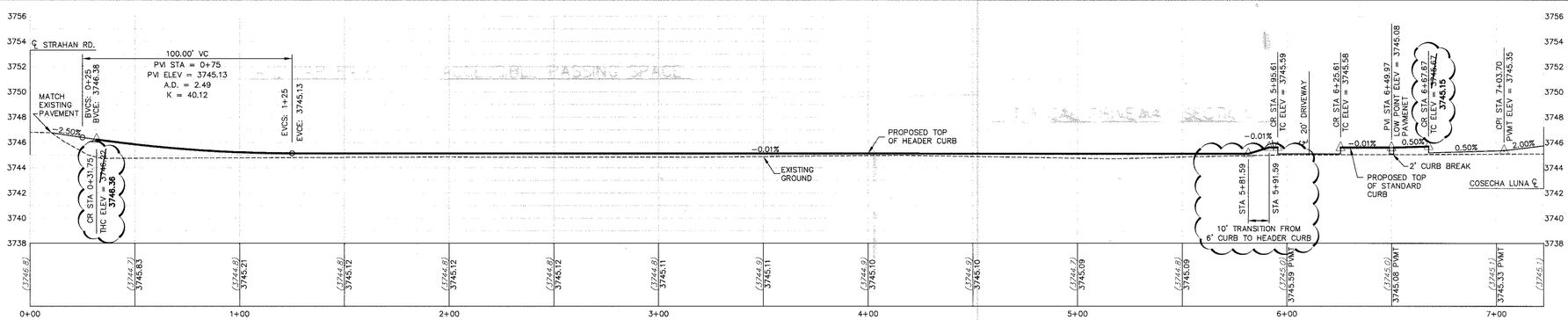
Jul 28, 2008 – 4:43pm S:\Dwg\4042 Brillo de la Luna (Aircraft Sub)\AS-BUILTS\4042 - conc gutter design.dwg gomez



CURVE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	12.00	18.85	12.00	16.97	N45°13'00"E	90°00'00"
C2	12.00	18.85	12.00	16.97	N44°47'00"W	90°00'00"
C3	34.00	52.33	32.94	47.31	S45°41'30"E	88°11'00"
C4	34.00	55.35	36.00	49.44	S43°34'42"W	93°16'37"

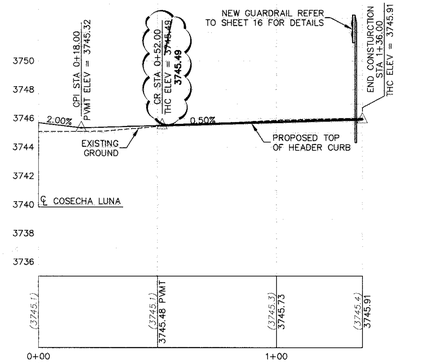


CURVE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	34.00	53.41	34.00	48.08	N46°36'00"W	90°00'00"
C2	34.00	53.41	34.00	48.08	N43°24'00"E	90°00'00"



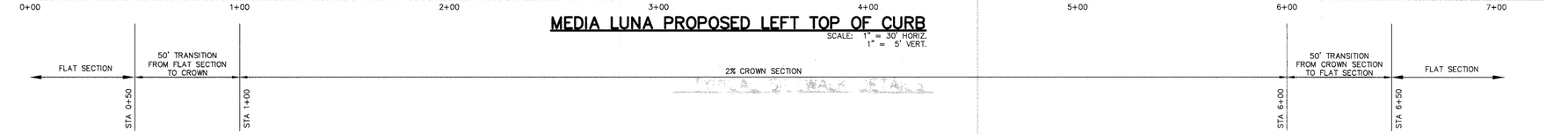
MEDIA LUNA PROPOSED LEFT TOP OF CURB

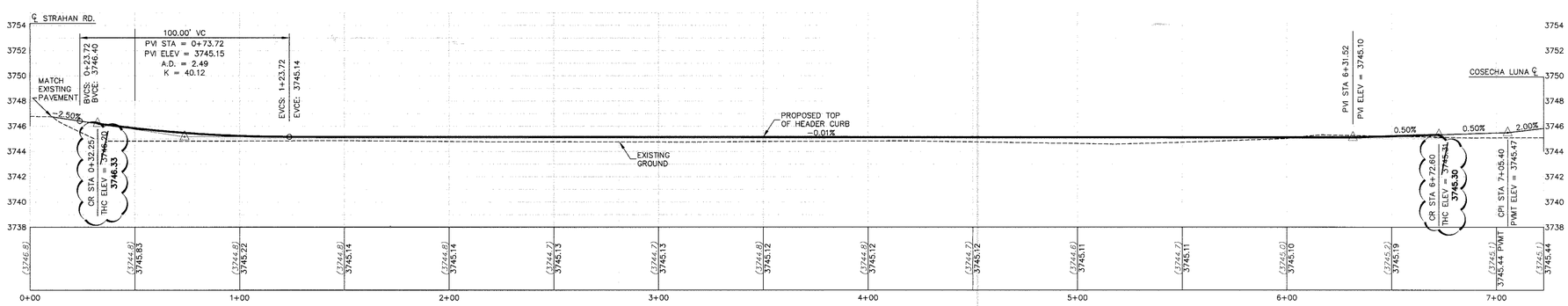
SCALE: 1" = 30' HORIZ.
1" = 5' VERT.



NUEVA LUNA PROPOSED LEFT TOP OF CURB

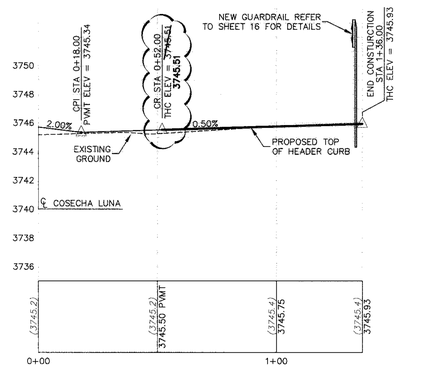
SCALE: 1" = 30' HORIZ.
1" = 5' VERT.





MEDIA LUNA PROPOSED RIGHT TOP OF CURB

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



NUEVA LUNA PROPOSED RIGHT TOP OF CURB

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

WARNING !
BEFORE YOU DIG
CONTRACTOR SHALL
FIELD LOCATE ALL EXISTING
UNDERGROUND IMPROVEMENTS
IN PROJECT AREA

BEFORE YOU DIG –	CALL
EL PASO ELECTRIC COMPANY	543-5720
SBC	1-800-DIG-TESS
TEXAS GAS SERVICE	544-6300
EMERGENCY HOTLINE	562-8411/562-2003
PUBLIC SERVICE BOARD (WATER & SEWER)	1-800-DIG-TESS
TIME WARNER COMMUNICATIONS (CABLE)	775-7414
EL PASO NATURAL GAS CO.	1-800-334-8047
TEXAS EXCAVATION SAFETY SYSTEM	1-800-344-8377

LEGEND

- LOT LINE
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- CENTER LINE OF STREET
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- POINT OF VERTICAL INTERSECTION
- PROPOSED CITY MONUMENT SEE DETAIL SHT 15
- 50' TRANSITION AT INTERSECTION
- 4' HANDICAP RAMP SEE DETAIL SHT 15
- 5'x5' PASSING ZONE BY BUILDER; BACK OF CURB; 3.50' PARKWAY (TYP); 4' SIDEWALK (TYP) BY BUILDER

RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

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STATE OF TEXAS
JOHN C. KARLSRUHER
53876
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tel (915) 877.4155
fax (915) 877.4334
www.csaengineers.com

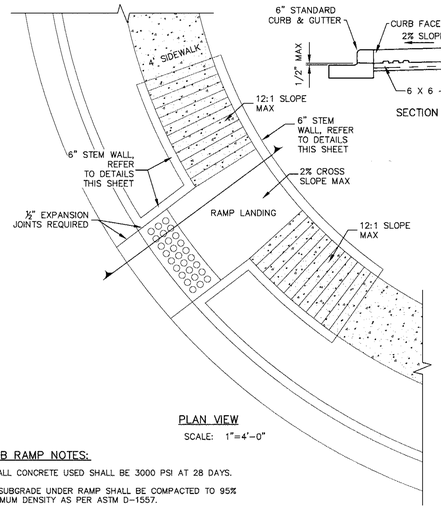
Brillo De La Luna Subdivision

MEDIA LUNA, NUEVA LUNA PLAN & PROFILE

G.B. DESIGNED BY | D.G. – L.T. DRAWN BY | J.C.K. CHECKED BY

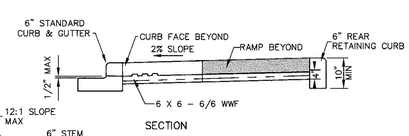
JOB NO. 4042
DATE 01-09-06
SCALE AS NOTED
SHEET NO. 14 OF 21

JUL 28, 2008 - 4:02pm
S:\Dwg\4042 Brillo de la Luna (Accent Sub)\AS-BUILTS\4042 Sht14 (Media Luna P&P).dwg
GUEST

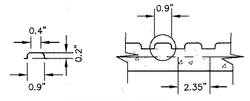


PLAN VIEW

SCALE: 1"=4'-0"



SECTION



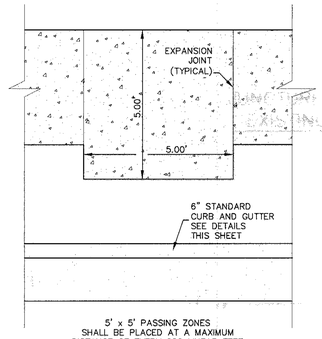
TRUNCATED DOMES

CURB RAMP NOTES:

1. ALL CONCRETE USED SHALL BE 3000 PSI AT 28 DAYS.
2. SUBGRADE UNDER RAMP SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AS PER ASTM D-1557.
3. EXPANSION JOINTS REQUIRED AT CURB RETURNS. JOINTS TO BE PACKED WITH 1/2" PRE MOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
4. SURFACES SHALL NOT BE ETCHED OR GROOVED.
5. DETECTABLE WARNINGS SHALL CONSIST OF A SURFACE OF TRUNCATED DOMES ALIGNED IN A SQUARE GRID PATTERN.
6. FOR PURPOSES OF WARNING, THE WIDTH AND DEPTH OF AREA WITH TRUNCATED DOME (2'x5') SHALL BE COLORED CONCRETE (BRICK RED). CONCRETE DYE SHALL BE USED. DYE SHALL BE APPLIED DIRECTLY OR MIXED WITH FRESH CONCRETE. THIS IS TO BE INCLUDED WITHIN CONTRACTOR'S BID.

4' HANDICAP RAMP

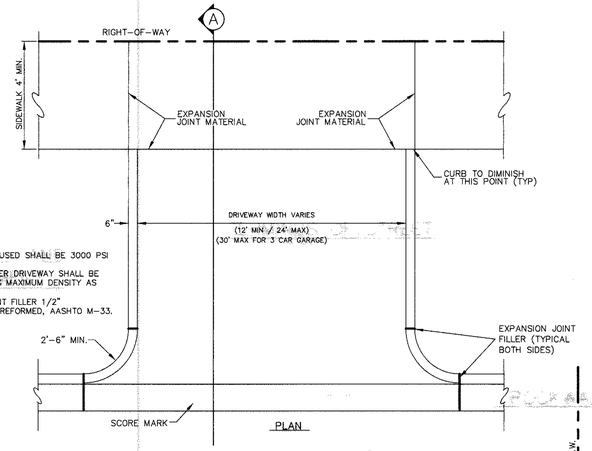
SCALE: AS NOTED



5' x 5' PASSING ZONES SHALL BE PLACED AT A MAXIMUM DISTANCE OF EVERY 200 LINEAR FEET

ACCESSIBLE PASSING SPACE

N.T.S.

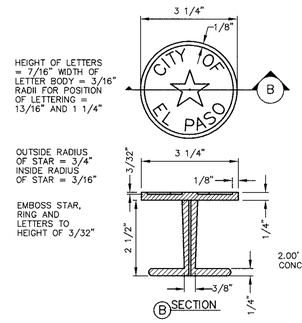


NOTES:
1. ALL CONCRETE USED SHALL BE 3000 PSI AT 28 DAYS.
2. SUBGRADE UNDER DRIVEWAY SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AS PER ASTM D-1557.
3. EXPANSION JOINT FILLER 1/2" BITUMINOUS TYPE PREFORMED, AASHTO M-33.

A SECTION

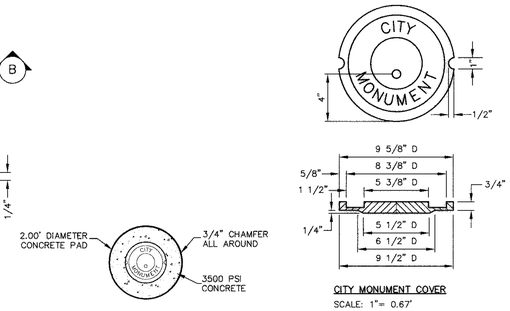
TYPICAL DRIVEWAY SECTION

SCALE: 1"=4'-0"



BRONZE MONUMENT CAP

N.T.S.

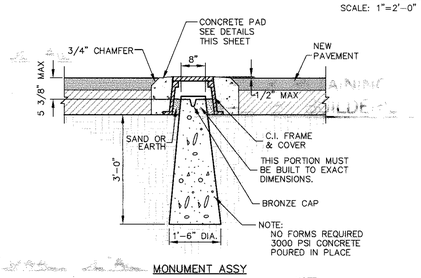


CITY MONUMENT COVER

SCALE: 1"= 0.67'

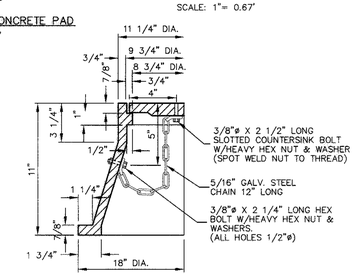
PLAN VIEW CONCRETE PAD

SCALE: 1"=2'-0"



MONUMENT ASSY

SCALE: 1"=2'-0"



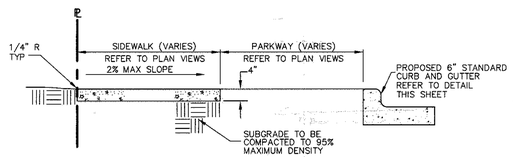
FRAME SECTION

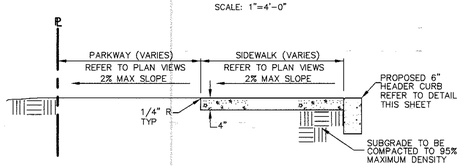
SCALE: 1"= 0.50'

NOTE:
REFER TO PLAT FOR LOCATIONS. ALL PROPOSED CITY MONUMENTS MUST BE CERTIFIED BY A REGISTERED SURVEYOR OF THE STATE OF TEXAS.

CITY MONUMENT DETAIL

SCALE: AS NOTED

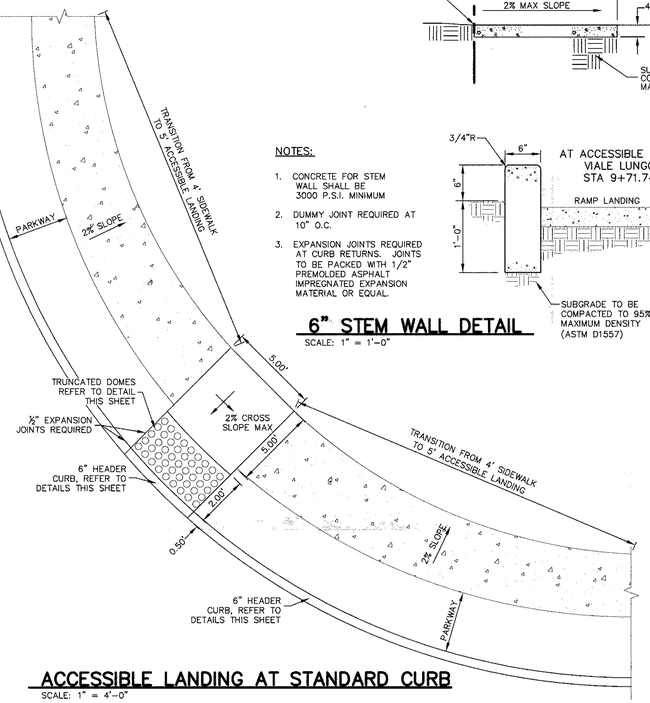




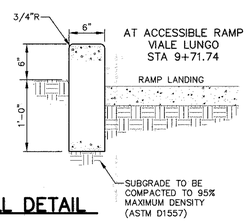
NOTES:
1. PROVIDE TRANSVERSE CONTRACTION JOINTS AT INTERVALS NOT EXCEEDING 5'-0" O.C.
2. PROVIDE EXPANSION JOINTS AT INTERVALS NOT EXCEEDING 20'-0" O.C. AND ALONG FEATURES THAT PROJECT THROUGH OR ADJACENT TO SIDEWALK.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS
4. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED JOINT FILLER, AASHTO M-33.
5. WHEREVER SIDEWALK ABUTS ROCK OR MASONRY STRUCTURES SUCH AS CURBS OR BUILDINGS, EXPANSION JOINT FILLER SHALL BE PLACED IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

TYPICAL SIDEWALK DETAILS

SCALE: 1"=2'



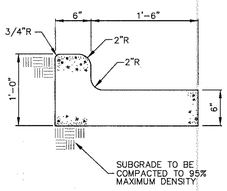
NOTES:
1. CONCRETE FOR STEM WALL SHALL BE 3000 P.S.I. MINIMUM
2. DUMMY JOINT REQUIRED AT 10" O.C.
3. EXPANSION JOINTS REQUIRED AT CURB RETURNS. JOINTS TO BE PACKED WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.



6" STEM WALL DETAIL

SCALE: 1" = 1'-0"

NOTES:
1. CONCRETE FOR CURBS, GUTTERS, & RETURNS SHALL BE 3000 P.S.I. MINIMUM.
2. DUMMY JOINT REQUIRED AT 10' O.C.
3. EXPANSION JOINTS REQUIRED AT CURB RETURNS. JOINTS TO BE PACKED WITH 1/2" PRE MOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.



STANDARD 6" CURB & GUTTER DETAIL

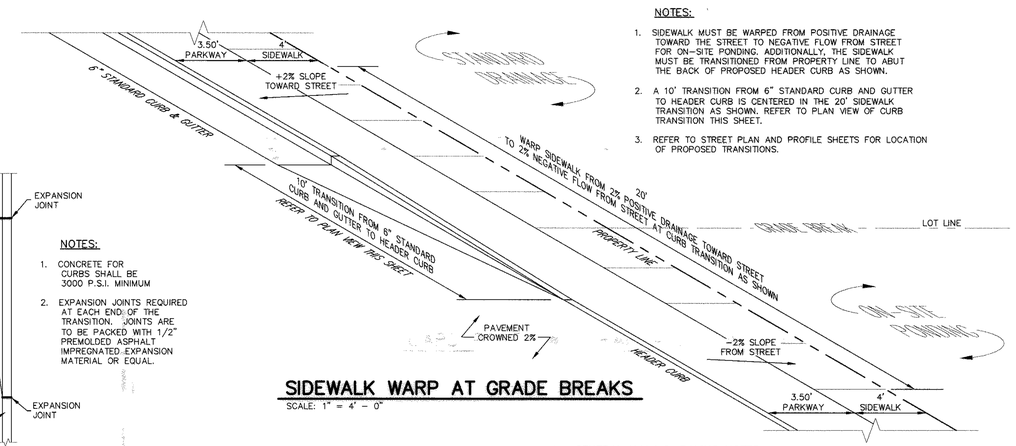
SCALE: 1" = 1'-0"

DOUBLE SWING GATE DETAIL

NOTES:
1. CONCRETE FOR CURBS SHALL BE 3000 P.S.I. MINIMUM
2. EXPANSION JOINTS REQUIRED AT EACH END OF THE TRANSITION. JOINTS ARE TO BE PACKED WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.

CURB TRANSITION

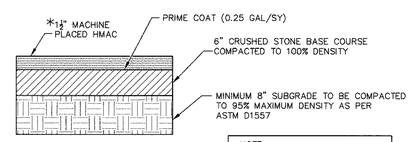
SCALE: 1" = 4' - 0"



NOTES:
1. SIDEWALK MUST BE WARPED FROM POSITIVE DRAINAGE TOWARD THE STREET TO NEGATIVE FLOW FROM STREET FOR ON-SITE PONDING. ADDITIONALLY, THE SIDEWALK MUST BE TRANSITIONED FROM PROPERTY LINE TO ABUT THE BACK OF PROPOSED HEADER CURB AS SHOWN.
2. A 10' TRANSITION FROM 6" STANDARD CURB AND GUTTER TO HEADER CURB IS CENTERED IN THE 20' SIDEWALK TRANSITION AS SHOWN. REFER TO PLAN VIEW OF CURB TRANSITION THIS SHEET.
3. REFER TO STREET PLAN AND PROFILE SHEETS FOR LOCATION OF PROPOSED TRANSITIONS.

SIDEWALK WARP AT GRADE BREAKS

SCALE: 1" = 4' - 0"



NOTE:
MINIMUM THICKNESS AS PER THE *CURRENT SUBDIVISION DESIGN STANDARDS.

TYPICAL HMAC PAVEMENT SECTION

N.T.S.

GENERAL H.M.A.C. PAVING NOTES:

1. FOR RECOMMENDATIONS REFER TO THE GEOTECHNICAL INVESTIGATION REPORT BY CQC (CONSTRUCTION QUALITY CONTROL TESTING AND ENGINEERING) PROJECT NO. AGCQC05-028-00
2. BASE COURSE SHALL MEET THE REQUIREMENTS FOR TYPE "A", GRADE 1 OR 2 MATERIAL ACCORDING TO ITEM 247, FLEXIBLE BASE, AS DESCRIBED IN THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES. ALL THE REQUIREMENTS OF THIS DOCUMENT SHALL BE MET, EXCEPT WHERE DENSITY IS SPECIFIED. THE DENSITY SHALL BE NOT LESS THAN 100% OF ASTM D1557.
3. THE SURFACE COARSE SHALL MEET THE REQUIREMENTS FOR (HMAC), TXDOT TYPE "C" AS SPECIFIED IN ITEM 340 HMAC (HOT MIX ASPHALTIC CONCRETE PAVEMENT), AS DESBRIBED IN THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES. STABILITY SHALL BE NOT LESS THAN 1500 POUNDS, WHEN COMPACTED AT 75 BLOWS. FURTHERMORE, THE MIX SHALL HAVE A FLOW BETWEEN 0.08" AND 0.16", ACCORDING TO THE MARSHALL STABILITY ANALYSIS.
4. SUBGRADE TO BE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DENSITY AS PER ASTM D1557.
5. FINAL PAVEMENT DESIGN TO BE DETERMINED BASED UPON FINAL CBR TEST RESULTS.

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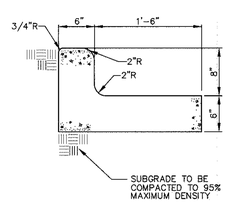
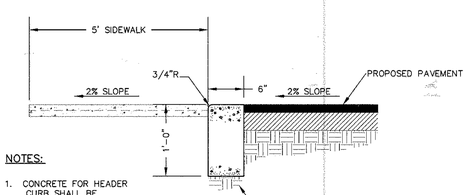


NOTES:
1. CONCRETE FOR CURBS, GUTTERS, & RETURNS SHALL BE 3000 P.S.I. MINIMUM.
2. DUMMY JOINT REQUIRED AT 10' O.C.
3. EXPANSION JOINTS REQUIRED AT CURB RETURNS. JOINTS TO BE PACKED WITH 1/2" PRE MOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.

8" CURB & GUTTER DETAIL

SCALE: 1" = 1'



NOTES:
1. CONCRETE FOR HEADER CURB SHALL BE 3000 P.S.I. MINIMUM
2. DUMMY JOINT REQUIRED AT 10" O.C.
3. EXPANSION JOINTS REQUIRED AT CURB RETURNS. JOINTS TO BE PACKED WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.

6" HEADER CURB DETAIL

SCALE: 1" = 1' - 0"

NO.	DATE	DESCRIPTION	BY
6	07-29-08	RECORD DRAWING	JCK
5	12-07-07	WALL CONSTRUCTION REVISION	JCK
4	06-12-07	VIEW FENCE OPTION	JCK
3	02-21-06	FINAL CITY SUBMITTAL	JCK
2	02-09-06	2nd CITY SUBMITTAL	JCK
1	01-09-06	1st CITY SUBMITTAL	JCK

STATE OF TEXAS
JOHN C. KARLSRUHER
53878
REGISTERED PROFESSIONAL ENGINEER
7/29/08

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Brillo De La Luna Subdivision

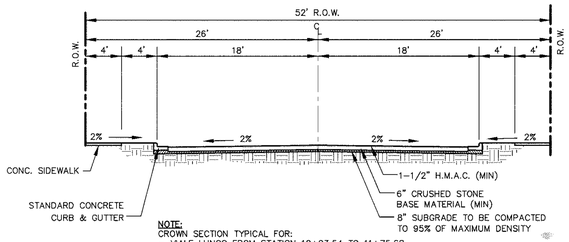
STANDARD DETAILS

G.B. DESIGNED BY | D.G. – L.T. DRAWN BY | J.C.K. CHECKED BY

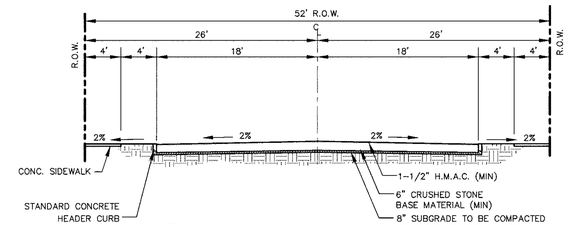
4042 JOB NO.
01-09-06 DATE
AS NOTED SCALE
SHEET NO. 15 OF 21

RECORD DRAWING

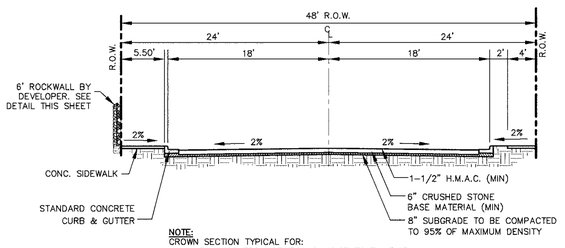
Jul 29, 2008 - 4:05pm
S:\Drawg\4042 Brillo de la Luna (Antonio) Sub\05-Bus\15\4042 Sht15.16 (StdDetails).dwg



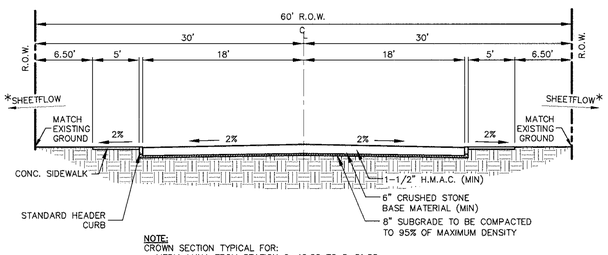
NOTE:
CROWN SECTION TYPICAL FOR:
- VIALE LUNGO FROM STATION 10+93.54 TO 11+75.68
- COSECHA DE LA LUNA FROM STATION 0+85.83 TO 1+26.96
- BRILLO DE LA LUNA FROM STATION 0+45.60 TO STATION 1+87.30



NOTE:
CROWN SECTION TYPICAL FOR:
- COSECHA DE LA LUNA FROM STATION 1+26.96 TO STATION 20+59.64
- BRILLO DE LA LUNA FROM STATION 1+87.30 TO 9+23.73
- ALL OF NUEVA LUNA



NOTE:
CROWN SECTION TYPICAL FOR:
- VIALE LUNGO FROM STATION 0+46.87 TO 7+45.45

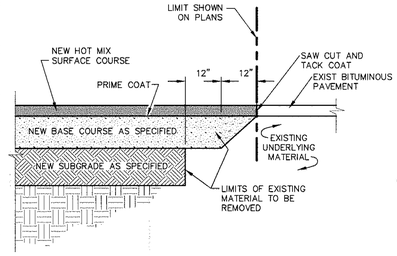


NOTE:
CROWN SECTION TYPICAL FOR:
- MEDIA LUNA FROM STATION 0+46.22 TO 5+81.88

*RUNOFF IS SHEET FLOW FROM STREET TO ADJACENT PROPERTY. DRAINAGE TO ADJACENT PROPERTY PERMITTED AS ALL FUTURE DEVELOPMENT ALONG MEDIA LUNA COURT WILL BE REQUIRED TO COMPLY WITH ON-SITE PONDING RESTRICTIONS.

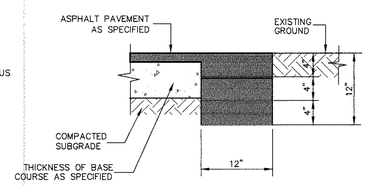
TYPICAL CROWN SECTIONS

SCALE: 1" = 8'



JUNCTURE OF NEW FLEXIBLE AND EXISTING FLEXIBLE PAVEMENT

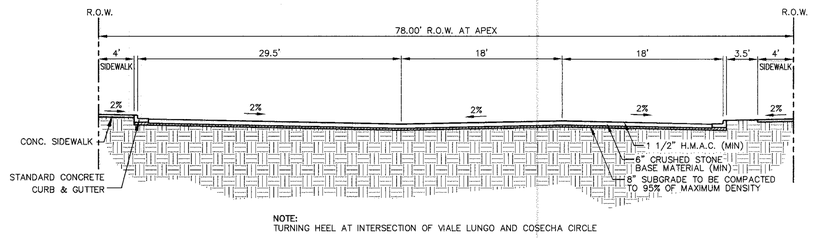
SCALE: 1"=2'-0"



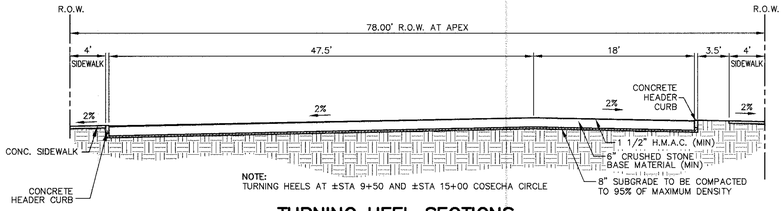
NOTE:
TERMINUS MUST BE CONSTRUCTED IN 4" LIFTS.
FINAL LIFT MUST BE PLACED WITH FINAL PAVEMENT COURSE.

TERMINUS OF STREET

SCALE 1"=1'-0"



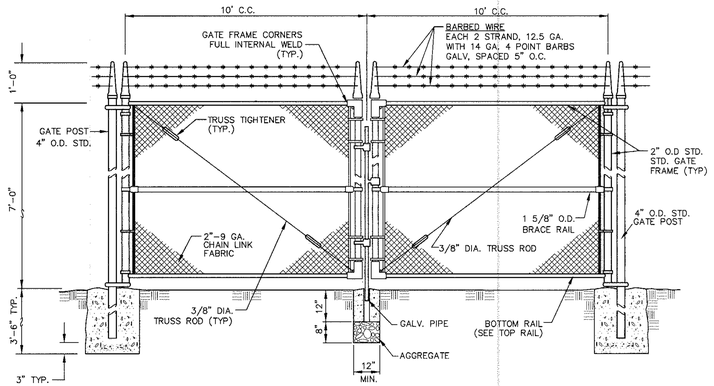
NOTE:
TURNING HEEL AT INTERSECTION OF VIALE LUNGO AND COSECHA CIRCLE



NOTE:
TURNING HEELS AT ±STA 9+50 AND ±STA 15+00 COSECHA CIRCLE

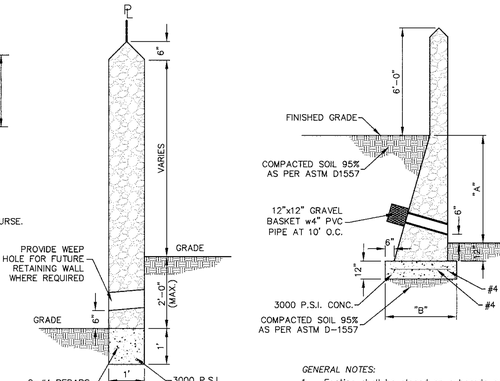
TURNING HEEL SECTIONS

SCALE: 1" = 8'



DOUBLE SWING GATE DETAIL

SCALE: 1"=2'-0"



ROCKWALL DETAIL

SCALE: 1" = 2'-0"

"A"	"B"
2'-0"	2'-0"
2'-6"	2'-0"
3'-0"	2'-0"
3'-6"	2'-0"
4'-0"	2'-0"
4'-6"	2'-5"
5'-0"	3'-0"
5'-6"	3'-5"
6'-0"	4'-0"
6'-6"	4'-4"
7'-0"	4'-8"
7'-6"	4'-8"
8'-0"	5'-0"
8'-6"	5'-5"
9'-0"	5'-5"
9'-6"	6'-0"
10'-0"	6'-0"

GENERAL NOTES:

1. Footing shall be placed on subgrade compacted to a minimum of 95% of its maximum dry density in accordance with ASTM D 1557.
2. Backfill shall be placed in 6" loose lifts and compacted to 95% in accordance with ASTM D 1557.

ROCK RETAINING WALL BY BUILDERS

SCALE: 1"=4'-0"

ROCKWALLS

MATERIALS: Stone for rockwalls shall consist of quarried limestone as nearly uniform in section as is practicable. Field stone or solvaged stone from rockwalls shall be used only where directed by the Engineer. The stone shall be dense, resistant to the action of air and water, clean of old mortar and suitable in all respects for the purpose intended.

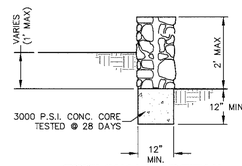
Mortar for the rockwalls shall consist by volumes of one (1) part portland cement, one-quarter to one-half (1/4 TO 1/2) part hydrated lime, and three (3) parts clean, hard, durable sand (2 1/4 to 3 times the sum of the volumes of cement and lime combined. See city building code PP. 14-3 and 14-4). Mortar shall be Type S, ASTM Specification C270-73. Compressive strength = 1800 p.s.i. (28 days). Concrete for the foundation shall be Class "A" (3000 p.s.i.). Reinforcing steel shall conform to ASTM A 615, Grade 60. If rockwall is frequently exposed to water, lime shall not be used and the portions shall be one part portland cement and three parts sand.

CONSTRUCTION METHODS: Prior to placing the concrete foundation, the excavation for the rockwalls shall be made to the proper section, and, if considered necessary by the Engineer, the bottom of excavation shall be hand-tamped and sprinkled. The excavated area for rockwalls shall be moist when the concrete is placed. Reinforcing steel shall be placed continuously as shown on the plans and properly supported throughout the placement of concrete. The surface of the concrete shall not be troweled. The concrete shall be cured a minimum of 24 hours before any stone or mortar is placed on the foundation. The concrete shall be cured a minimum of 48 hours before more than 300 pounds per square foot of stone and mortar is placed on the foundation. Contractor shall embed the first four inches of the first layer into the fresh concrete of the footing.

Stone shall be selected as to size and shape in order to secure fairly large, flat-surfaced stone which may be erected with true and even surface faces and a minimum of exposed mortar. All stones shall be thoroughly cleaned, wetted, hand-placed and embedded in mortar so that no stones shall touch each other or the concrete foundation but shall be firmly bound together with mortar. The finished surface shall present a neat, clean, workmanlike and true-to-line appearance. The interior of the rockwall shall be completely filled with spalls and pieces of the specified stone, completely embedded and surrounded by mortar with no voids.

The erection of the rockwall shall not be more than three feet in height for every 24-hour period to allow for the lower portions to become sufficiently set. All stones shall be thoroughly wet before being placed in fresh mortar. The last layer of rock prior to break of construction phase shall not have any mortar on top. Fresh mortar must be used for continuation of work following erection break.

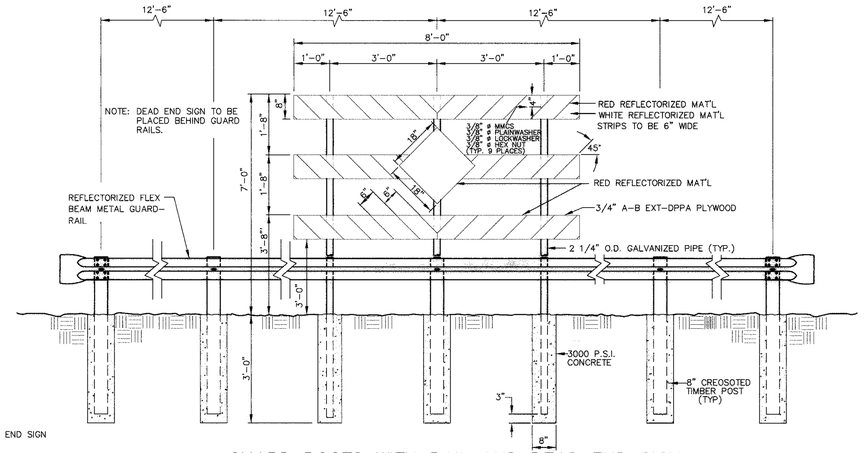
Weep holes shall be placed on the rockwall as shown on the plans. The weep holes shall be not more than ten feet apart on-center. The weep holes shall consist of four-inch vitrified clay pipe, or other pipe as approved by the Engineer, neatly cut to the exposed surface of the rockwall. No less than one cubic foot of one-inch to 3/4-inch of graded gravel shall be placed at the inlet of each weep hole as shown on the plans.



STEMWALL DETAIL

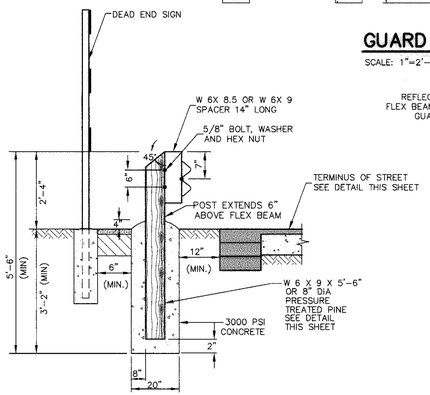
SCALE: 1"=2'-0"

NOTE:
STEMWALLS INSTALLED BETWEEN LOTS SUBJECT TO ON-SITE PONDING MUST INCLUDE 6" PVC WEEP HOLES @10' O.C. WITH INVERT OF PIPE AT GROUND LEVEL.

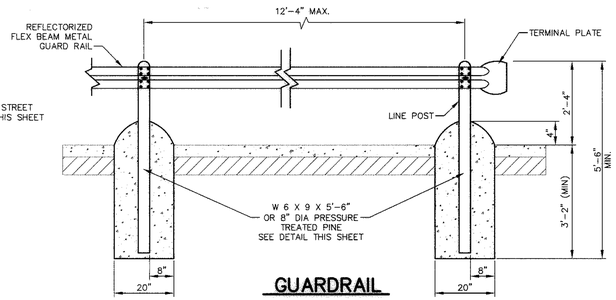


GUARD POSTS WITH RAIL AND DEAD END SIGN

SCALE: 1"=2'-0"

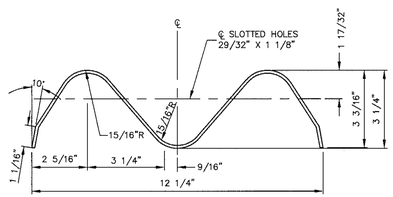


SECTION



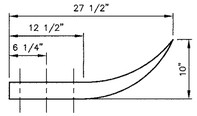
GUARDRAIL

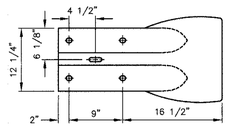
SCALE: 1"= 2'-0"



SECTION THROUGH GUARDRAIL

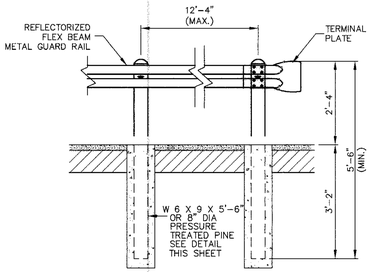
SCALE: 1"=4'-0"





END SECTION

SCALE: 1"=1'-0"



GUARD POSTS WITH RAIL

SCALE: 1"=2'-0"

WARNING !
BEFORE YOU DIG
CONTRACTOR SHALL
FIELD LOCATE ALL EXISTING
UNDERGROUND IMPROVEMENTS
IN PROJECT AREA

BEFORE YOU DIG -	CALL
EL PASO ELECTRIC COMPANY	543-5720
SBC	1-800-DIG-TESS
TEXAS GAS SERVICE	544-6300
EMERGENCY HOTLINE	562-8411/562-2003
PUBLIC SERVICE BOARD (WATER & SEWER)	1-800-DIG-TESS
TIME WARNER COMMUNICATIONS (CABLE)	775-7414
EL PASO NATURAL GAS CO.	1-800-334-8047
TEXAS EXCAVATION SAFETY SYSTEM	1-800-344-8377

NO.	DATE	DESCRIPTION	BY
6	07-29-08	RECORD DRAWING	JCK
5	12-07-07	WALL CONSTRUCTION REVISION	JCK
4	06-12-07	VIEW FENCE OPTION	JCK
3	02-21-06	FINAL CITY SUBMITTAL	JCK
2	02-09-06	2nd CITY SUBMITTAL	JCK
1	01-09-06	1st CITY SUBMITTAL	JCK

STATE OF TEXAS
JOHN C. KARLSRUHER
53878
REGISTERED PROFESSIONAL ENGINEER
7/29/08

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Brillo De La Luna Subdivision

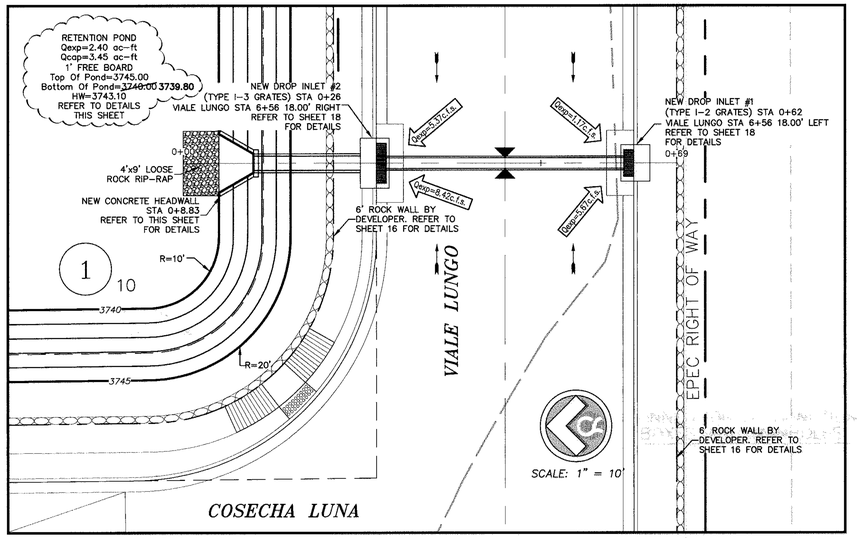
STANDARD DETAILS

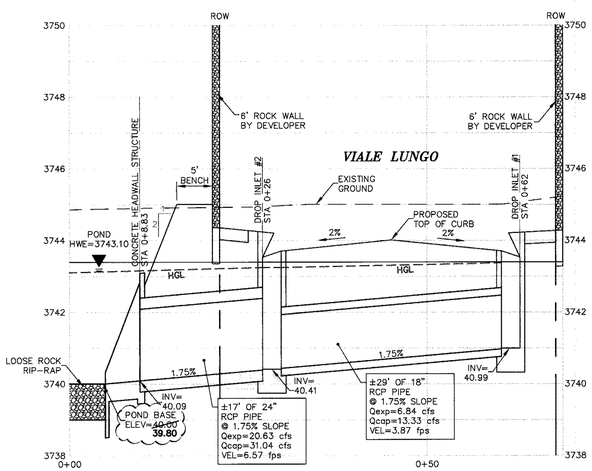
G.B. DESIGNED BY | D.G. - L.T. DRAWN BY | J.C.K. CHECKED BY

4042 JOB NO.
01-09-06 DATE
AS NOTED SCALE
SHEET NO. 16 OF 21

RECORD DRAWING

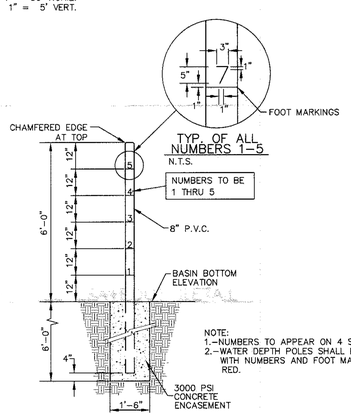
Jul 29, 2008 - 4:04pm
S:\Drawings\4042 Brillo de la Luna (Vincent Sub)\AS-BUILTS\4042 SHT15,16 (StdDetails).dwg
Xrefs: ( )
Layout: Layout 16





STORM SEWER

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



NOTE:
1.-NUMBERS TO APPEAR ON 4 SIDES OF POLE
2.-WATER DEPTH POLES SHALL BE PAINTED WHITE WITH NUMBERS AND FOOT MARKINGS PAINTED RED.

DEPTH GAUGE

NOT TO SCALE

WARNING !
BEFORE YOU DIG
CONTRACTOR SHALL
FIELD LOCATE ALL EXISTING
UNDERGROUND IMPROVEMENTS
IN PROJECT AREA

BEFORE YOU DIG –	CALL
EL PASO ELECTRIC COMPANY	543-5720
SBC	1-800-DIG-TESS
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TIME WARNER COMMUNICATIONS (CABLE)	775-7414
EL PASO NATURAL GAS CO.	1-800-334-8047
TEXAS EXCAVATION SAFETY SYSTEM	1-800-344-8377

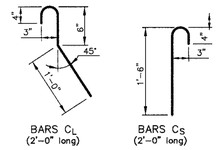
Jul 28, 2008 - 5:00pm
S:\Draw\4042 Brillo de la Luna (Arcadia Sub)\AS-Builts\4042 Sht17 (Storm P&P).dwg
gcastro

TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL							
SLOPE	DIA. OF PIPE, D	VALUES FOR ONE PIPE					
		W	X	Y	L	REINF (lbs)	CONC (CY) (1)
2:1	24"	8'-2 1/2"	3'-9 1/2"	4'-10"	5'-7"	158	1.3

(5) TABLE OF REINFORCING STEEL			
Bar	Size	Spa	No.
A	# 4	1'-0"	~
B	# 3	1'-6"	~
CL	# 4	1'-0"	~
CS	# 4	1'-0"	~
D	# 3	1'-0"	~
E	# 5	~	4
F	# 5	~	~
G	# 3	~	2
SL	# 4	~	3
SS	# 4	~	3
V	# 4	1'-0"	~
WL	# 5	~	2
WS	# 5	~	2

(5) QUANTITIES SHOWN ARE FOR ONE STRUCTURE END. (ONE HEADWALL)

TABLE OF CONSTANT DIMENSIONS			
DIA OF PIPE, D	G	K	H
24"	1'-7"	1'- 0"	3'- 0"

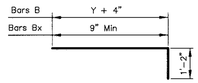


BARS C_L (2'-0" long)

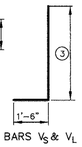
BARS C_S (2'-0" long)

(3) MIN LENGTH = 6" + 3" x $\left(\frac{12 \times H - 7}{12 \times L}\right)$

MAX LENGTH= 12 x H – 3" x $\left(\frac{12 \times H - 7}{12 \times L}\right)$ – 1"



BARS B & B_1–B_x



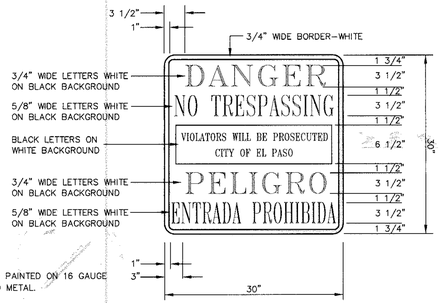
BARS V_S & V_L

GENERAL NOTES:
DESIGNED ACCORDING TO CURRENT AASHTO STANDARD AND INTERIM SPECIFICATIONS.

REINFORCING STEEL SHALL BE PLACED WITH THE CENTER OF THE OUTSIDE LAYER OF BARS 2" FROM THE SURFACE OF THE CONCRETE.

ALL REINFORCING STEEL SHALL BE GRADE 60.

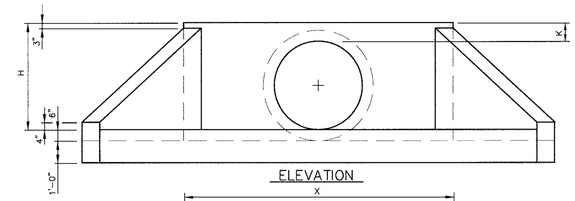
ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3600 PSI.



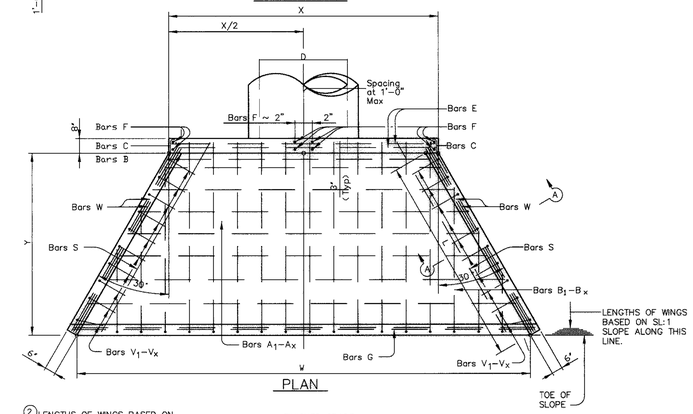
NOTE:
SIGN TO BE PAINTED ON 16 GAUGE GALVANIZED METAL.

NO TRESPASSING WARNING SIGN

NOT TO SCALE

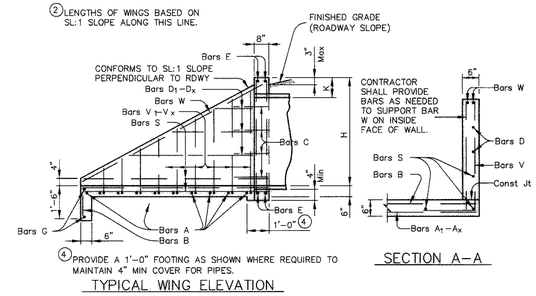


ELEVATION



PLAN

(2) LENGTHS OF WINGS BASED ON SL:1 SLOPE ALONG THIS LINE.



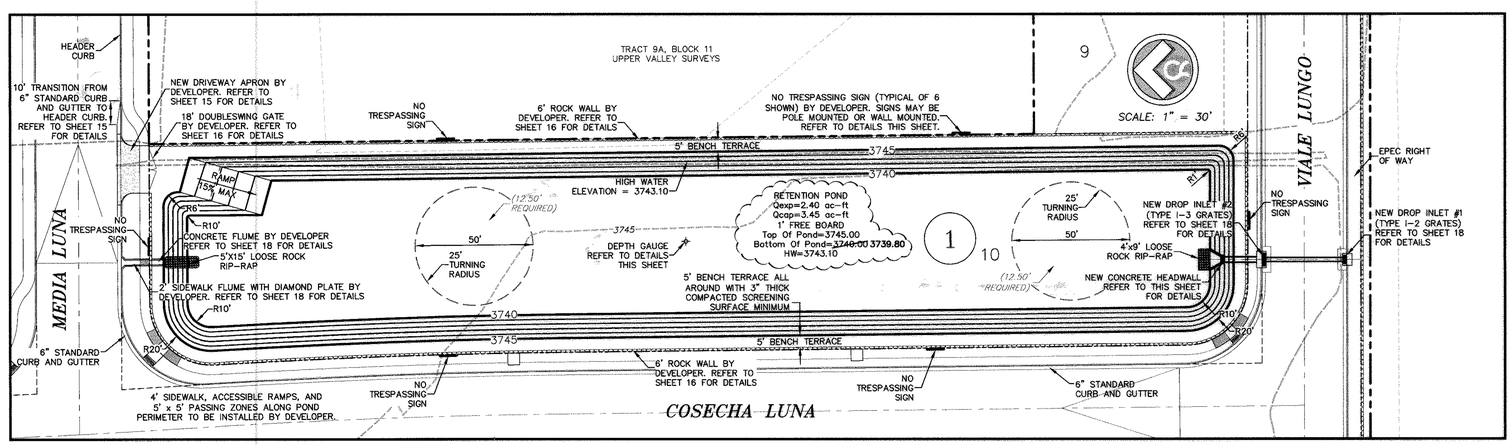
(4) PROVIDE A 1'-0" FOOTING AS SHOWN WHERE REQUIRED TO MAINTAIN 4" MIN COVER FOR PIPES.

TYPICAL WING ELEVATION

SECTION A–A

CONCRETE HEADWALL

SCALE: 1" = 3'-0"



POND DETAILS

SCALE: 1" = 30'-0"

RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

NO.	DATE	DESCRIPTION	BY
6	07-29-08	RECORD DRAWING	JCK
5	12-07-07	WALL CONSTRUCTION REVISION	JCK
4	06-12-07	VIEW FENCE OPTION	JCK
3	02-21-06	FINAL CITY SUBMITTAL	JCK
2	02-09-06	2nd CITY SUBMITTAL	JCK
1	01-09-06	1st CITY SUBMITTAL	JCK

STATE OF TEXAS
JOHN C. KARLSRUHER
53878
REGISTERED PROFESSIONAL ENGINEER
7/29/08

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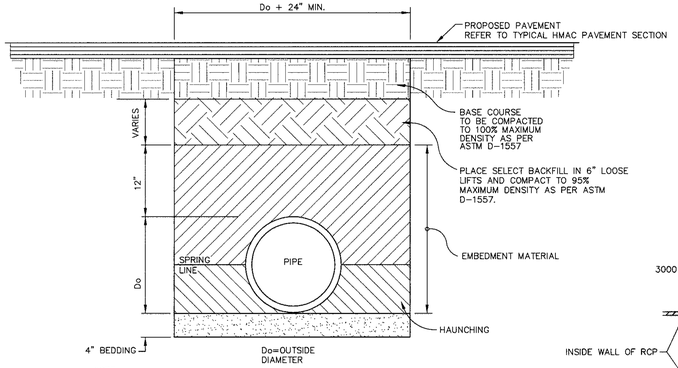
Brillo De La Luna Subdivision

STORM SEWER PLAN AND PROFILE, POND DETAILS

G.B. DESIGNED BY | D.G. – L.T. DRAWN BY | J.C.K. CHECKED BY

4042 JOB NO.
01-09-06 DATE
AS NOTED SCALE
SHEET NO. 17 OF 21



NOTE:

1. PIPE INSTALLATION AND COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH PIPE MANUFACTURER AND GEOTECHNICAL REQUIREMENTS.

TYPICAL TRENCH BACKFILL FOR STORM SEWER INSTALLATION

SCALE: 1" = 1'-0"

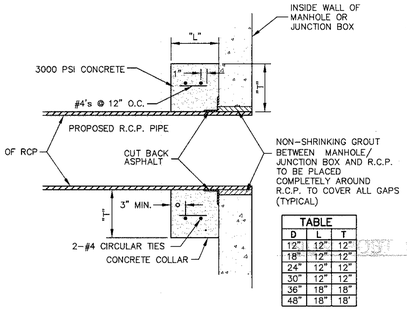
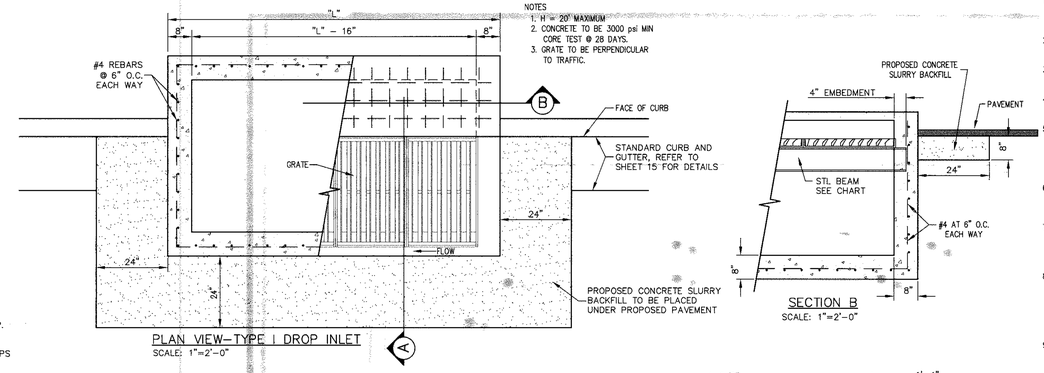


TABLE		
D	L	T
12"	12"	12"
18"	12"	12"
24"	12"	12"
30"	12"	12"
36"	18"	18"
48"	18"	18"

CONNECTION AT JUNCTION BOXES AND MANHOLES

N.T.S.



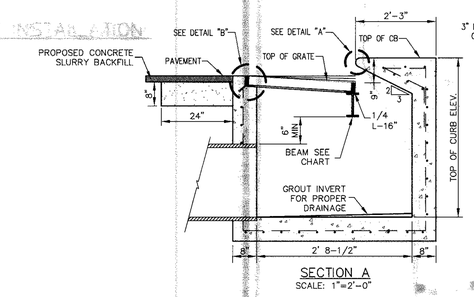
NOTES
1. H = 20' MAXIMUM
2. CONCRETE TO BE 3000 psi MIN CORE TEST @ 28 DAYS.
3. GRATE TO BE PERPENDICULAR TO TRAFFIC.

PLAN VIEW-TYPE I DROP INLET

SCALE: 1"=2'-0"

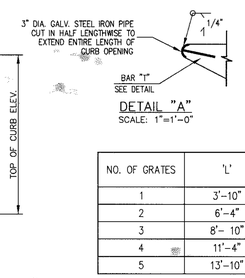
SECTION B

SCALE: 1"=2'-0"



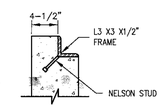
SECTION A

SCALE: 1"=2'-0"



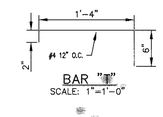
DETAIL "A"

SCALE: 1"=1'-0"



DETAIL "B"

SCALE: 1"=1'-0"



BAR "B"

SCALE: 1"=1'-0"

NO. OF GRATES	'L'	BEAM	
		LENGTH	MINIMUM SIZES
1	3'-10"	3'-4"	W6x12, M4x13, C6x8.2
2	6'-4"	5'-10"	W6x12, S6x12.5, MC6x15.1
3	8'- 10"	8'-4"	W8x15, S7x15.3, MC7x17.6
4	11'-4"	10'-10"	W9x18, S8x18.4, MC10x21.9
5	13'-10"	13'-4"	W12x16, S8x21, MC10x21.9

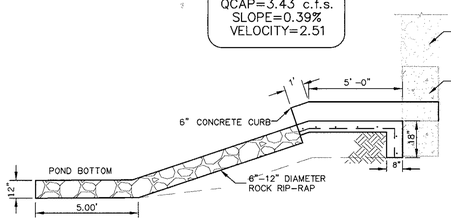
DROP INLET TYPE I

AS NOTED

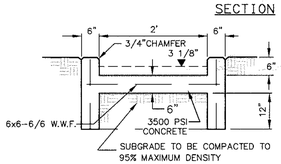
DROP INLET NOTES

1. WELDED STEEL AS DETAILED ARE ACCEPTABLE GRATES. MIXING OF ALTERNATE TYPES OF GRATES ON THE SAME PROJECT WILL BE PERMITTED WITH THE APPROVAL OF THE CITY 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 AND 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 GRATES 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 BE 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 NOR BRITTLE.
10. ALL CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN. COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER.
11. ALL CONCRETE TO BE 3000 p.s.i., 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 TO BE 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 T.H.D. 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. ALL REINFORCING BARS TO BE # 4 BARS AT 6" O.C. GRADE 60. BEND BARS AROUND PIPE OPENINGS.
17. INLETS TO BE DESIGNATED IN PLANS BY NUMBER OF GRATES REQUIRED.
18. LOCATION OF SEWER PIPES SHOWN ELSEWHERE IN PLANS.
19. 2 - 1/2" DIA. x 4" LONG CONC. ANCHOR STUDS REQUIRED FOR EACH SIDE OF FRAME, WHERE RESTING ON CONCRETE, USE NELSON STUDS OR EQUAL.
20. THE GRATES OF ALL INLETS WITHIN THE STREET PAVEMENT MUST BE CONSTRUCTED WITH THE GRATE BARS PERPENDICULAR TO THE CURB.
21. EXCAVATION WHICH WILL EXCEED FIVE (5) FEET IN DEPTH SHALL PROVIDE FOR TRENCH SAFETY AS PER OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) GUIDELINES.

QEXP=1.43 c.f.s.
QCAP=3.43 c.f.s.
SLOPE=0.39%
VELOCITY=2.51



SECTION



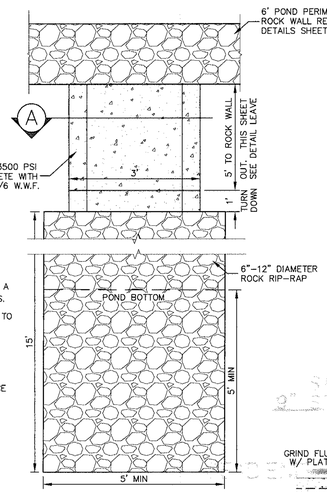
SECTION "A"

NOTES (FLUME):

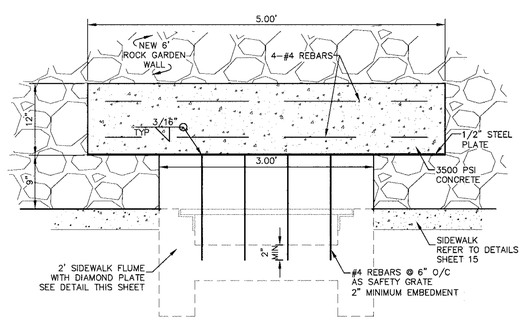
1. ALL CONCRETE USED FOR THESE STRUCTURES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS.
2. SUBGRADE UNDER ALL STRUCTURES SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY, ASTM D-1557.
3. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PERFORMED JOINT FILLER, AASHTO M-33.
4. EXPANSION JOINT MATERIAL SHOULD BE USED WHEREVER CONCRETE ABUTS PAVEMENT OR CONCRETE, IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

CONCRETE FLUME

NTS

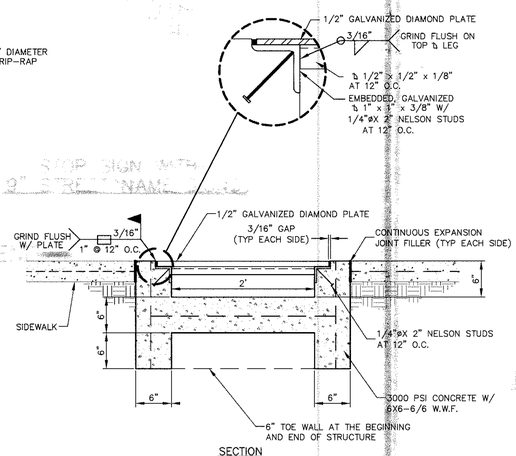


PLAN VIEW



3' ROCK WALL LEAVEOUT DETAIL

SCALE 1" = 1'



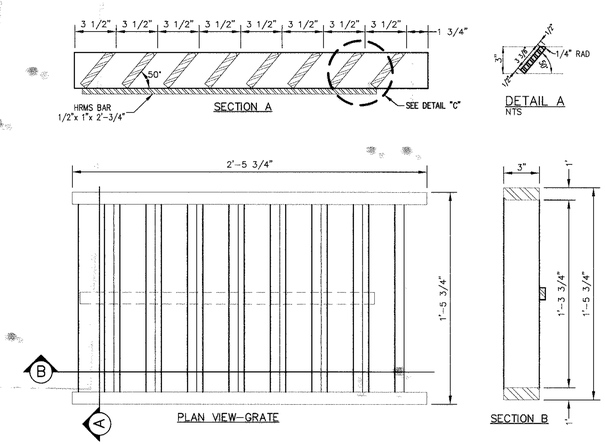
SECTION

NOTES:

1. CONCRETE FOR ALL DRAINAGE STRUCTURES SHALL BE CLASS-A CONCRETE, AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 POUNDS PER SQUARE INCH.
2. SUBGRADE UNDER ALL DRAINAGE STRUCTURES SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
3. ALL CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF EL PASO STANDARD SPECIFICATIONS.
4. SHARP EDGES RESULTING FROM FABRICATION SHALL BE DULLED BY ANY ACCEPTABLE METHOD FOR SAFETY IN HANDLING.
5. ALL WELDS 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.
6. ALL STEEL USED SHALL BE GALVANIZED AS PER ASTM A153 CLASS A.
7. MINIMUM SLOPE AT FLOOR OF FLUME SHALL BE 2%.
8. Qcapacity = 13.91 CFS

2' SIDEWALK FLUME WITH PLATE

SCALE: 1"-1'-0"



SECTION A

DETAIL A

NTS

PLAN VIEW-FRAME

PLAN VIEW-GRATE

SECTION B

SECTION C

WELDED STEEL GRATE AND FRAME FOR TYPE I INLETS

SCALE: 1"=0.50'

INLET CALCULATIONS

INLET 1

FLOW THROUGH INLET FORMULA

$Q_1 = CA\sqrt{2gh}$
$= .7(6.60)\sqrt{2(32.2)(0.625)}$
$Q_1 = 29.31$ cfs ÷ 2 = 14.67 cfs

WEIR FORMULA

$Q_2 = 3.087\ Lh^{3/2}$
$= 3.087(7.5)(.75)$
$Q_2 = 15.04$ cfs ÷ 2 = 7.52 cfs
$Q_1 + Q_2 = 22.19$ cfs

$Q_{TOTAL} = 22.19$ cfs

INLET 2

FLOW THROUGH INLET FORMULA

$Q = CA\sqrt{2gh}$
$= .7(35.20)\sqrt{2(32.2)(0.625)}$
$Q = 18.88$ cfs ÷ 2 = 9.77 cfs

WEIR FORMULA

$Q_1 = 3.087\ Lh^{3/2}$
$= 3.087(5.0)(.75)$
$Q_1 = 10.03$ cfs ÷ 2 = 5.02 cfs
$Q_1 + Q_2 = 14.46$ cfs

$Q_{TOTAL} = 14.46$ cfs

WARNING !
BEFORE YOU DIG
CONTRACTOR SHALL
FIELD LOCATE ALL EXISTING
UNDERGROUND IMPROVEMENTS
IN PROJECT AREA

BEFORE YOU DIG -	CALL
EL PASO ELECTRIC COMPANY	543-5720
SBC	1-800-DIG-TESS
TEXAS GAS SERVICE	544-6300
EMERGENCY HOTLINE	562-8411/562-2003
PUBLIC SERVICE BOARD (WATER & SEWER)	1-800-DIG-TESS
TIME WARNER COMMUNICATIONS (CABLE)	775-7414
EL PASO NATURAL GAS CO.	1-800-334-8047
TEXAS EXCAVATION SAFETY SYSTEM	1-800-344-8377

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Brillo De La Luna Subdivision

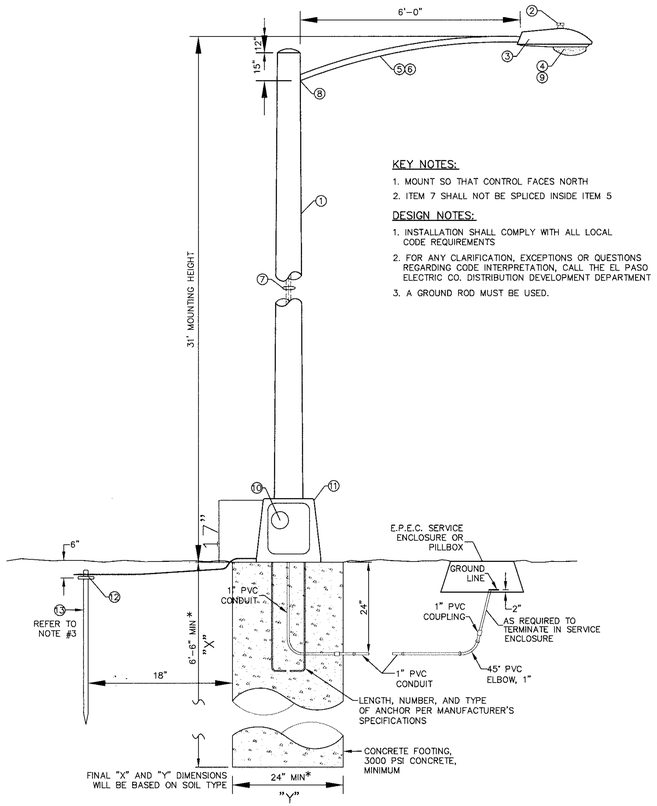
STORM SEWER DETAILS

G.B.	D.G. - L.T.	J.C.K.
DESIGNED BY	DRAWN BY	CHECKED BY

4042	JOB NO.
01-09-06	DATE
AS NOTED	SCALE
18	SHEET NO. OF 21

RECORD DRAWING

Jul 28, 2008 - 4:13pm S:\Draw\4042 Brillo de la Luna (Aircraft Sub)\SC-BUILT\4042 SH18 (Storm Sewer Details).dwg dcastel



KEY NOTES:

1. MOUNT SO THAT CONTROL FACES NORTH
2. ITEM 7 SHALL NOT BE SPLICED INSIDE ITEM 5

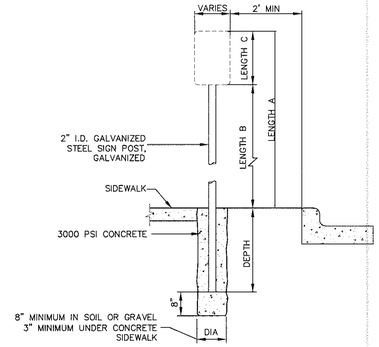
DESIGN NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL LOCAL CODE REQUIREMENTS
2. FOR ANY CLARIFICATION, EXCEPTIONS OR QUESTIONS REGARDING CODE INTERPRETATION, CALL THE EL PASO ELECTRIC CO. DISTRIBUTION DEVELOPMENT DEPARTMENT
3. A GROUND ROD MUST BE USED.

RESIDENTIAL STREET LIGHT POLE DETAIL

SCALE: 1" = 2'-0"

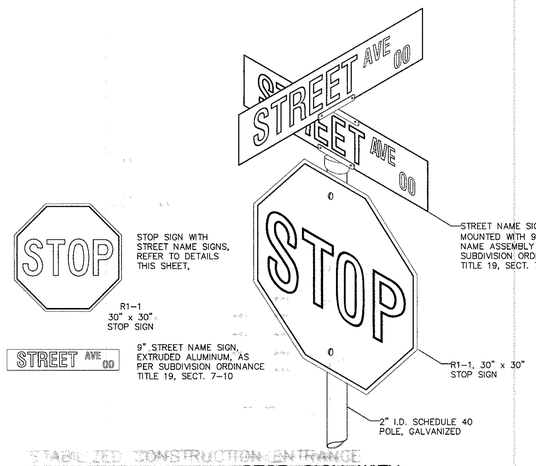
ITEM	STOCK No.	QTY PER UNIT	DESCRIPTION
1		1 EACH	POLE, 36 FT. – STEEL
2	021–225	1 EACH	PHOTO CELL, 240v (SEE KEY NOTE 1)
3	021–335	1 EACH	LUMINAIRE, 100w H.P.S.
4	021–085	1 EACH	H.P.S. LAMP, 100w
5	21–200	1 EACH	MAST ARM, 6'–0" x 1.25"
6	013–600	AS REQUIRED	#10 SOLID CABLE, 600v
7	013–600	40' PLUS	#10 CABLE, 3–CONDUCTOR, 600v, UF
8	05–145	AS REQUIRED	SLEEVES, #12–10
9	21–608	1 EACH	ROADWAY LUMINAIRE, 150w H.P.S.
10	21–250	2 EACH	30 AMP BREAK–AWAY FUSES
11	21–608	1 EACH	ALUMINUM TRANSFORMER BASE
12	07–561	1 EACH	5/8" GROUND ROD CLAMP
13	08–626	1 EACH	5/8" x 10' Cu BONDED GROUND ROD



LENGTH A	LENGTH B	LENGTH C	DEPTH
10 FEET	7 FEET	LARGER THAN 24"	2 FEET
9 FEET	7 FEET	SMALLER THAN 24"	1.5 FEET

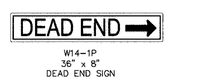
SIGN POST INSTALLATION

SCALE: 1/2"=1'-0"

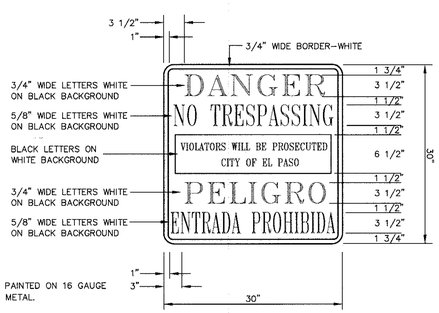


STOP SIGN WITH 9" STREET NAME SIGNS

SCALE: N.T.S.



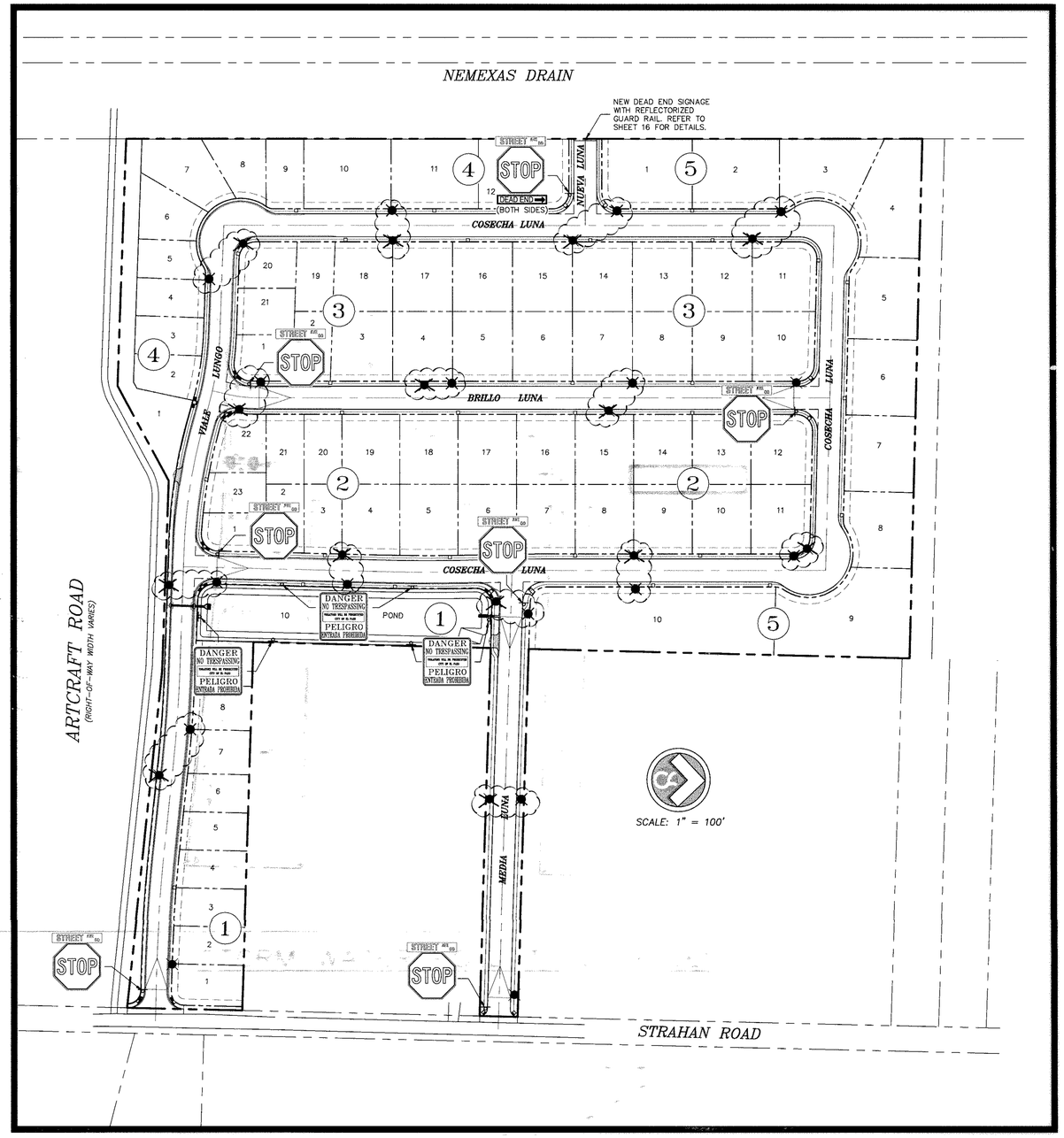
W14–1P
36" x 8"
DEAD END SIGN



NOTE:
SIGN TO BE PAINTED ON 16 GAUGE GALVANIZED METAL.

NO TRESPASSING WARNING SIGN

SCALE: 1"=1'-0"



LEGEND

PROPOSED STREET LIGHTS REQUIRED AS PER CITY ORDINANCE 13

STOP SIGN AND/OR STREET NAME

DEPARTMENT OF TRAFFIC AND TRANSPORTAITON

ILLUMINATION PLAN

APPROVED 01/03/06

ALL ROADWAYS INTERSECTING EXISTING PUBLIC ROADWAYS SHALL REMAIN COMPLETELY CLOSED FOR PUBLIC USE UNTIL ACCEPTED FOR MAINTENANCE BY THE CITY.

SW3P# 06-004

RECORD DRAWING

WARNING !
BEFORE YOU DIG
CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND IMPROVEMENTS IN PROJECT AREA

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1845 Northwestern Dr. Ste C
El Paso, Texas 79912
tel (915) 877.4155
fax (915) 877.4334
www.csaengineers.com

Brillo De La Luna Subdivision

ILLUMINATION PLAN

G.B. DESIGNED BY | D.G. – L.T. DRAWN BY | J.C.K. CHECKED BY

4042 JOB NO.
01–09–06 DATE
AS NOTED SCALE
SHEET NO. 19 OF 21

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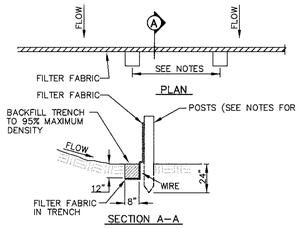
Jul 28, 2008 – 4:23pm
S:\Dwg\4042 Brillo de la Luna (Aircraft Sub)\05-Bid\TI\042 Dwg (Illumination Plan).dwg
dbaldo

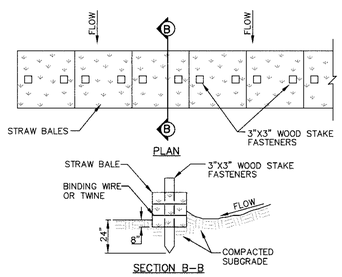


NOTES:

1. THE FENCE REQUIRES FREQUENT INSPECTION AND PROMPT MAINTENANCE TO MAINTAIN ITS EFFECTIVENESS.
2. INSPECT THE FENCE AFTER EACH RAINFALL.
3. CHECK FOR AREAS WHERE RUN–OFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE WAS CAUSED TO SAG OR COLLAPSE.
4. ALL NEEDED REPAIRS SHALL BE PERFORMED IMMEDIATELY.
5. REMOVE AND PROPERLY DISPOSE OF SEDIMENT WHEN IT IS ONE–THIRD TO ONE–HALF THE HEIGHT OF THE FENCE OR AFTER EACH STORM.
6. 4' MIN. STEEL OR WOOD POSTS SPACED AT 6' O.C. SOFTWOOD POSTS SHALL HAVE A 3" MIN. DIAMETER OR NOMINAL 2"x4". HARDWOOD POSTS SHALL HAVE A MINIMUM CROSS SECTION OF 1.5"x1.5"

FILTER FENCE

SCALE: 1" = 5'–0"



NOTES (BALE BARRIER):

1. BALES TO BE PLACED PERPENDICULAR TO FLOW HAY BALES PLACED IN "V" DITCH MUST BE STAGGERED.
2. BALES MUST BE FIRMLY STAKED INTO THE ENTRENCHMENT AND THE ENTRENCHMENT BE PROPERLY BACKFILLED.
3. BALES MUST BE PLACED END TO END AND THERE CAN BE NO GAPS BETWEEN THE BALES.
4. BARRIERS MUST BE INSPECTED AND REPAIRED IMMEDIATELY AFTER EACH RAINFALL OR DAILY IF THERE IS PROLONGED RAINFALL.
5. DAMAGED STRAW BALES REQUIRE IMMEDIATE REPLACEMENT.
6. TRAPPED SEDIMENTS MUST BE REMOVED AND DISPOSED OF PROPERLY.

STRAW BALE BARRIER

SCALE: 1" = 5'–0"

NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND SUBMITTAL OF ALL STORM WATER POLLUTION CONTROL PERMITS. THE CONTRACTOR SHALL SUBMIT A NOI AND SDPCP APPLICATION FORM PRIOR TO CONSTRUCTION. AFTER COMPLETION OF PROJECT, CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION FORM TO COMPLETE NPDES REQUIREMENTS.

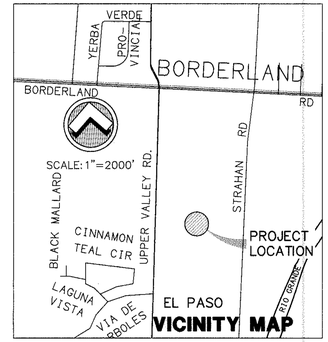
STAGING AREA SHALL PROVIDE ADEQUATE SPACE FOR TRAILER STORAGE, FUEL/LUBRICANT STORAGE, PORTABLE RESTROOMS, EQUIPMENT STORAGE AND MAINTENANCE, ETC.

DUST AND EROSION CONTROL NOTE:

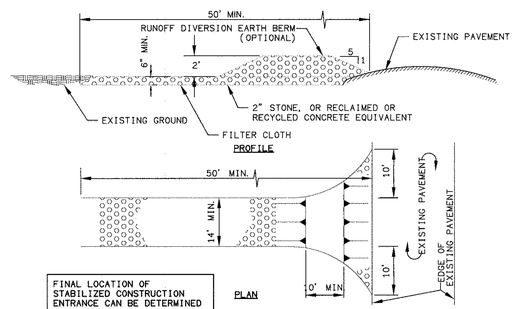
CONTRACTOR SHALL MAKE PROVISIONS FOR TEMPORARY DUST AND EROSION CONTROL WHERE EXTENSIVE DIRT OR DUST OPERATIONS ARE PERFORMED. USE WATER SPRINKLING AND OTHER METHODS TO LIMIT DUST AND DIRT MIGRATION. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

LEGEND

- HIGH POINT
- LOW POINT
- 100 RUNOFF OUTFALL
- PROPOSED SILT FENCE OR HAY BALE BARRIER
- DIRECTION OF DRAINAGE FLOW
- 14 PROPOSED CONTOUR
- PROPERTY LINE
- EASEMENT



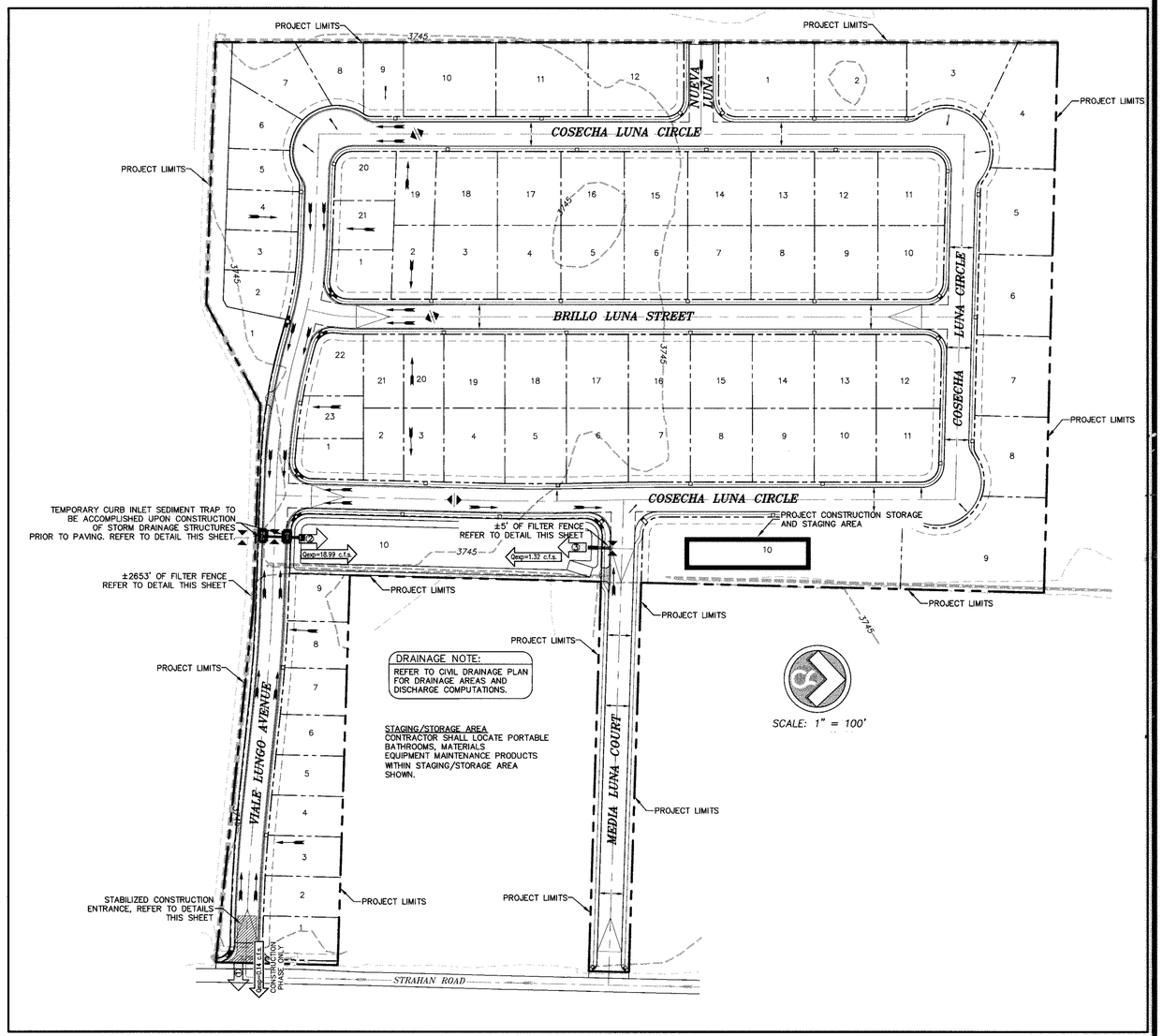
Approx. Latitude = 31°88'N
Approx. Longitude = 106°61'W



FINAL LOCATION OF STABILIZED CONSTRUCTION ENTRANCE CAN BE DETERMINED AT THE SITE BY THE CONTRACTOR.

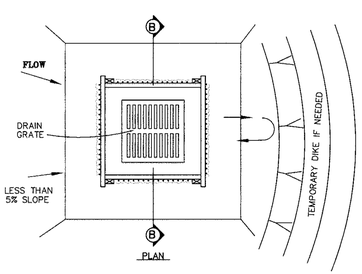
STABILIZED CONSTRUCTION ENTRANCE

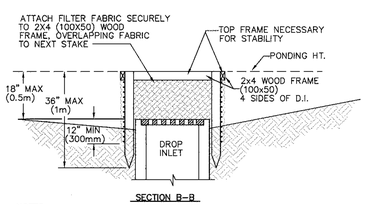
SCALE: 1" = 2'–0"



STORM WATER POLLUTION PREVENTION PLAN

SCALE: 1"=100'





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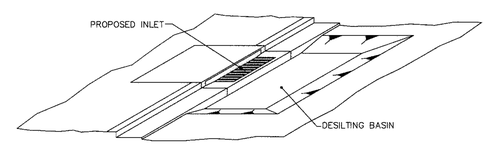
INLET PROTECTION

SCALE: 1" = 5'–0"



CURB INLET SEDIMENT TRAP

SCALE: 1" = 3'–0"

WARNING !
BEFORE YOU DIG
CONTRACTOR SHALL
FIELD LOCATE ALL EXISTING
UNDERGROUND IMPROVEMENTS
IN PROJECT AREA

BEFORE YOU DIG –	CALL
EL PASO ELECTRIC COMPANY	543–5720
SBC	1–800–DIG–TESS
TEXAS GAS SERVICE	544–6300
EMERGENCY HOTLINE	562–8411/562–2003
PUBLIC SERVICE BOARD (WATER & SEWER)	1–800–DIG–TESS
TIME WARNER COMMUNICATIONS (CABLE)	775–7414
EL PASO NATURAL GAS CO.	1–800–334–8047
TEXAS EXCAVATION SAFETY SYSTEM	1–800–344–8377

SW3P# 06-004

RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

NO.	DATE	DESCRIPTION	BY
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4	06–12–07	VIEW FENCE OPTION	JCK
3	02–21–06	FINAL CITY SUBMITTAL	JCK
2	02–09–06	2nd CITY SUBMITTAL	JCK
1	01–09–06	1st CITY SUBMITTAL	JCK

STATE OF TEXAS
JOHN C. KARLSRUHER
53878
REGISTERED PROFESSIONAL ENGINEER
7/29/08

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Brillo De La Luna Subdivision
STORM WATER POLLUTION PREVENTION PLAN

G.B. DESIGNED BY | D.G. – L.T. DRAWN BY | J.C.K. CHECKED BY

4042 JOB NO.
01–09–06 DATE
AS NOTED SCALE
SHEET NO. 20 OF 21

Jul 29, 2008 – 4:32pm
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gcarlos

NARRATIVE:

BRILLO DE LA LUNA SUBDIVISION
EL PASO, TEXAS

LEGAL DESCRIPTION

BEING ALL OF TRACT 9B AND A PORTION OF TRACTS 6,9F AND 10A, BLOCK 11, UPPER VALLEY SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS.

EROSION AND SEDIMENT CONTROL

SOIL STABILIZATION PRACTICES

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

OTHER: _____

STRUCTURAL PRACTICES: (P–PERMANENT T–TEMPORARY)

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

OTHER: _____

POST CONSTRUCTION CONTROLS

INLETS, DESILTING BASIN, EARTH BERMS AND STONE BEDDING CHANNELS AS PER PLAN

ESTIMATED TOTAL SIZE, DISTURBED AREA

PROJECT SITE APPROX. 25.56 ACRES
ESTIMATED DISTURBED AREA 25.56 ACRES.

CONSTRUCTION START DATE:_____ CONSTRUCTION END DATE:_____

WARNING !
BEFORE YOU DIG
CONTRACTOR SHALL
FIELD LOCATE ALL EXISTING
UNDERGROUND IMPROVEMENTS
IN PROJECT AREA

BEFORE YOU DIG –	CALL
EL PASO ELECTRIC COMPANY	543–5720
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EL PASO NATURAL GAS CO.	1–800–334–8047
TEXAS EXCAVATION SAFETY SYSTEM	1–800–344–8377

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

1. BEGIN CONSTRUCTION/MOBOLIZATION (5 DAYS).
2. INSTALL INITIAL STORMWATER POLLUTION PREVENTIONS (SWPP) MEASURES AS INDICATED ON SWPP PLAN (3 DAYS).
3. CLEAR AND GRUB (2 WEEKS).
4. SITE GRADING (2 MONTHS).
5. PERFORM PERIODIC INSPECTIONS OF THE SWPP STRUCTURES. PERFORM MAINTENANCE AND REPLACEMENTS AS NEEDED (DURATION OF CONSTRUCTION).
6. EXCAVATION FOR SITE UTILITIES AND STORM SEWER (3 MONTHS).
7. CONSTRUCTION OF SITE IMPROVEMENTS AND STORM SEWER (3 MONTHS).
8. END CONSTRUCTION – FINAL STABILIZATION, DEMOBILIZATION, REMOVAL OF SWPP CONTROLS, AND SUBMIT NOTICE OF TERMINATION.

GENERAL CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL PERMIT THAT AUTHORIZES STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNED: _____ COMPANY: _____
NAME: _____ ADDRESS: _____
TITLE: _____ TELEPHONE: _____
DATE: _____

SUB – CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I WILL COORDINATE, EITHER THROUGH THE GENERAL CONTRACTOR, OWNER, OR DIRECTLY, WITH THE CONTRACTOR(S) AND/OR SUBCONTRACTOR(S) IDENTIFIED IN THE POLLUTION PREVENTION PLAN HAVING RESPONSIBILITY FOR IMPLEMENTING STORM WATER CONTROL MEASURES TO MINIMIZE ANY IMPACT MY ACTIONS MAY HAVE ON THE EFFECTIVENESS OF THESE STORM WATER CONTROLS MEASURES.

SIGNED: _____	SIGNED: _____
NAME: _____	NAME: _____
TITLE: _____	TITLE: _____
COMPANY: _____	COMPANY: _____
ADDRESS: _____	ADDRESS: _____
TELEPHONE: _____	TELEPHONE: _____
DATE: _____	DATE: _____

SOIL CONDITIONS

THE EXPLORATORY BORINGS WERE DRILLED TO DEPTHS RANGING FROM 8 TO 15 FEET BELOW THE EXISTING GROUND SURFACE. THE SOIL UNDERLYING THE SITE GENERALLY CONSISTS OF THREE MAJOR SOIL TYPES. THE NEAR SUBSURFACE SOILS CONSIST OF (1) BROWN,SILTS, (2) BROWN, LOW TO HIGHLY PLASTIC CLAYS AND (3) FINE TO MEDIUM GRAINED, POORLY GRADED SANDS AND/OR SILTY SANDS.

ENDANGERED SPECIES ACT

NOT LIKELY TO ADVERSELY AFFECT ANY CURRENTLY LISTED FEDERAL THREATENED OR ENDANGERED SPECIES.

HISTORIC PROPERTY SITE

NO KNOWN SITES ELIGIBLE FOR HISTORIC RECORD

AUTHORIZED STORM WATER DISCHARGES

1. STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY.

2. DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES INCLUDING CONCRETE AND ASPHALT BATCH PLANTS, EQUIPMENT STAGING AREAS, MATERIAL STORAGE YARDS, MATERIAL BORROW AREAS, AND EXCAVATED MATERIAL DISPOSAL AREAS MAY BE AUTHORIZED AS PER TPDES PERMIT NO. TXR150000, PART II, SECTION A.

AUTHORIZED NON–STORM WATER DISCHARGES
THE FOLLOWING NON–STORM WATER DISCHARGES AREA AUTHORIZED AS PER TPDES PERMIT NO. TXR150000, PART II, SECTION A.

1. DISCHARGES FROM FIRE FIGHTING ACTIVITIES.

2. FIRE HYDRANT FLUSHING.

3. WATER USED TO CONTROL DUST.

4. WATER LINE FLUSHING.

5. VEHICLE, EXTERNAL BUILDING AND PAVEMENT WASH WATER, FREE OF DETERGENTS AND SOAPS.

6. AIR CONDITIONING CONDESATE.

PROHIBITED POLLUTANTS DISCHARGES
1. CONCRETE
2. DETERGENTS
3. PAINTS
4. CLEANING SOLVENTS
5. FUELS
6. ELECTRICAL EQUIPMENT AND MATERIALS
7. LUBRICANTS
8. WOOD
9. FERTILIZERS
10. ASPHALT AND ASPHALT RELATED PRODUCTS
11. STEEL PRODUCTS

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 & 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 FOLLOWNG 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 TNRCC.

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 ORIGNAL 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

POSSIBLE POLLUTANTS ON–SITE

A. GAS TANK CONTAINERS
   1. INSPECT CONTAINERS FOR LEAKS AND ENSURE LIDS AND CAPS ARE PROPERLY SEALED. DAMAGED TANKS OR CONTAINERS SHALL BE PROPERLY REMOVED/REPLACED AND DISPOSED OF.
B. LUBRICATING GREASE CONTAINERS
   1. ALL ON–SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE CHANCE OF LEAKAGE; DRIP PANS SHALL BE UTILIZED FOR LEAKING VEHICLES AND FOR FLUID DRAINING.
C. CEMENT DISCHARGE INTO EXISTING STORM SYSTEM
   1. ONSITE INSPECTIONS OF CONCRETE POUR AREAS SHALL BE DONE TO ENSURE THAT CEMENT DOES NOT RUNOFF AND DISCHARGE INTO EXISTING STORM SEWER SYSTEM.

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 SPILL 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 EVERY 7 DAYS AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR MORE. INSPECTION IN FINAL STABILIZED AREAS OR DURING ARID PERIODS WILL BE CONDUCTED BI–WEEKLY. BEST MANAGEMENT PRACTICES AND POLLUTION CONTROL PROCEDURES SHALL BE INSPECTED FOR ADEQUACY. A REPORT SUMMARIZING THE SCOPE OF INSPECTION SHALL BE DONE & RETAINED ALONG WITH THE SDPCP.

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
_X_–STABILIZED CONSTRUCTION ENTRANCE
_____–OTHER: _____

MATERIALS WITH CONSTRUCTION SITE:
____ HAS BATCH PLANT WITH PROJECT
____ HAS ASPHALT PLANT WITH PROJECT
_X_ DOES NOT HAVE BATCH PLANT WITH PROJECT
_X_ DOES NOT HAVE ASPHALT PLANT WITH PROJECT

OWNER CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

_____
OWNER : SIGNED DATE

_____
OWNER : NAME DATE

_____
TITLE DATE

GENERAL NOTES

1. CONTRACTOR TO PROVIDE A CONSTRUCTION SIGN ONSITE, CONSPICUOUSLY NEAR MAIN ENTRANCE, WITH A COPY OF N.O.I. POSTED.
2. CONTRACTOR TO DESIGNATE A QUALIFIED COMPETENT PERSON TO INSPECT AND RECORD SW3P AND BMP INSPECTION IN ACCORDANCE TO SITE INSPECTION REPORT.
3. CONTRACTOR TO KEEP ORIGINAL N.O.I. AND INSPECTION REPORTS ON SITE AT ALL TIMES.
4. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN A CLEAN WORK SITE.
5. CONTRACTOR MUST KEEP RECORD OF IMPORTANCE DATES SUCH AS, BUT NOT LIMITED TO, MAJOR GRADING ACTIVITIES, CONSTRUCTION TEMPORARILY OR PERMANENTLY WORK CEASED, STABILIZATION MEASURES INITIATED.
6. CONTRACTOR SHALL KEEP A COPY OF TPDES PERMIT TXR 15000 ONSITE

NOTE:
CONTRACTOR SHALL ENSURE COMPLIANCE WITH SW3P AND TPDES PERMIT TXR 15000. PERMIT TXR 15000 IS LOCATED AND CAN BE VIEWED WITH THE CIVIL ENGINEER – CSA CONSULTING ENGINEERS, 1845 NORTHWESTERN DR, SUITE C, EL PASO, TX. 79912.

SW3P# 06-004

RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

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STATE OF TEXAS
JOHN C. KARLSRUHER
53878
REGISTERED PROFESSIONAL ENGINEER
7/9/08

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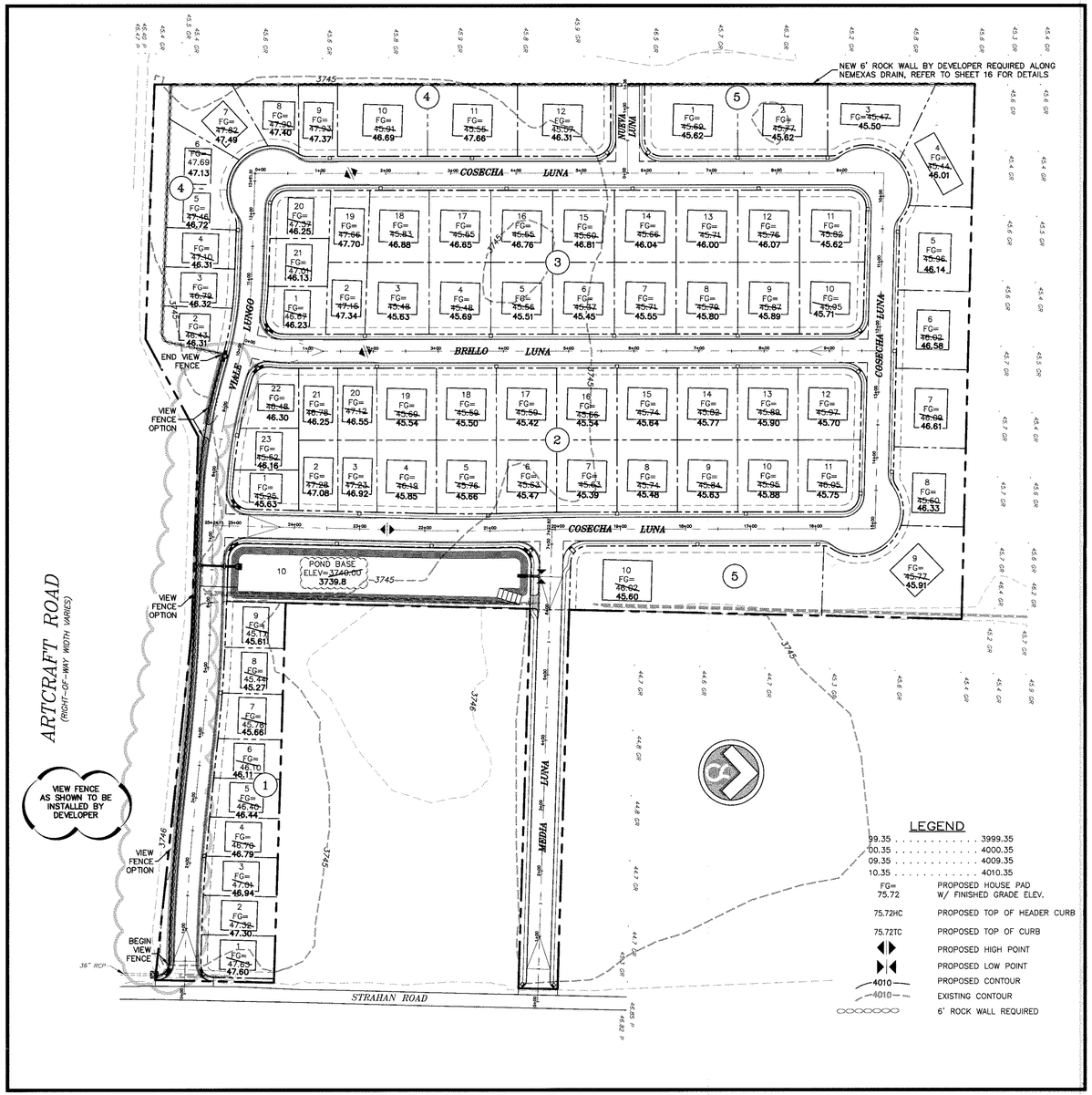
Brillo De La Luna Subdivision
STORM WATER POLLUTION PREVENTION PLAN

G.B.	D.G. – L.T.	J.C.K.
DESIGNED BY	DRAWN BY	CHECKED BY

4042 — JOB NO.
01–09–06 — DATE
AS NOTED — SCALE
SHEET NO. 21 OF 21

Jul 28, 2008 – 4:13pm S:\Dwg\4042 Brillo de la Luna (Aircraft Sub)\AS-Built\4042 SW3P21 (SW3P).dwg @csa4



GENERAL NOTES:

1. LOCATIONS OF ALL UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES FOR THE EXACT LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES INCLUDING UTILITIES NOT SHOWN ON PLANS. THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND ANY UTILITIES NOT SHOWN ON THIS PLAN DURING CONSTRUCTION. THE CONTRACTOR WILL PERFORM ALL UTILITY INSTALLATION, REMOVAL AND RELOCATION'S AS PER LOCAL UTILITY CONSTRUCTION SPECIFICATIONS. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS ON SITE AND SHALL CONTACT THE DESIGN ENGINEER AND REPORT ANY DISCREPANCIES, OMISSIONS AND/OR ERRORS ON PLANS PRIOR TO COMMENCING WORK.

3. ALL CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH THE CITY OF EL PASO STANDARD SPECIFICATIONS AND DETAILS.

4. CONTRACTOR SHALL PERFORM ALL EARTHWORK REQUIREMENTS AS PER GEOTECHNICAL STUDY REPORT.

5. INSTALL A TRENCH SAFETY SYSTEM FOR ALL TRENCHES EXCEEDING A DEPTH OF FIVE FEET (5') AS PER OSHA STANDARDS.

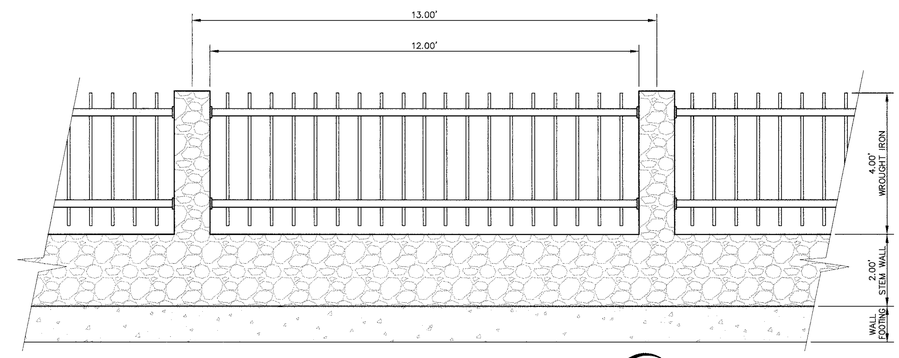
6. SLOPES WHICH ARE TO RECEIVE FILL MUST BE CLEARED OF ALL VEGETATION.

7. POSITIVE DRAINAGE SHALL BE PROVIDED BY CONTRACTOR DURING ALL PHASES OF CONSTRUCTION AND GRADING. LOTS SHOULD DRAIN TOWARD STREET.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND SUBMITTAL OF ALL PERMITTING NECESSARY FOR EARTHWORK OPERATIONS AND STORM WATER POLLUTION CONTROL.

9. NOTE TO BUILDERS: RETAINING WALLS MUST BE PROVIDED WHENEVER THE GRADE DIFFERENTIAL BETWEEN LOT GRADES IS GREATER THAN 2.0 FEET. WALLS MUST BE DESIGNED AND CERTIFIED BY A CIVIL ENGINEER (FOR APPROVAL) WHEN APPLYING FOR A BUILDING PERMIT.

10. EXISTING CONTOURS, PROPOSED CONTOURS AND ELEVATIONS ARE PROVIDED TO CITY DATUM.



VIEW FENCE
SCALE: 1"=2'-0"

VIEW FENCE ALONG TxDOT R.O.W. TO BE INSTALLED BY DEVELOPER

LEGEND

99.35 . . . . . 3999.35	
00.35 . . . . . 4000.35	
09.35 . . . . . 4009.35	
10.35 . . . . . 4010.35	
FG= 75.72	PROPOSED HOUSE PAD W/ FINISHED GRADE ELEV.
75.72HC	PROPOSED TOP OF HEADER CURB
75.72TC	PROPOSED TOP OF CURB
	PROPOSED HIGH POINT
	PROPOSED LOW POINT
4010	PROPOSED CONTOUR
4010	EXISTING CONTOUR
	6' ROCK WALL REQUIRED

WARNING !
BEFORE YOU DIG
CONTRACTOR SHALL
FIELD LOCATE ALL EXISTING
UNDERGROUND IMPROVEMENTS
IN PROJECT AREA

BEFORE YOU DIG –	CALL
EL PASO ELECTRIC COMPANY	543-5720
SBC	1-800-DIG-TESS
TEXAS GAS SERVICE	544-6300
EMERGENCY HOTLINE	562-8411/562-2003
PUBLIC SERVICE BOARD (WATER & SEWER)	1-800-DIG-TESS
TIME WARNER COMMUNICATIONS (CABLE)	775-7414
EL PASO NATURAL GAS CO.	1-800-334-8047
TEXAS EXCAVATION SAFETY SYSTEM	1-800-344-8377

Jul 28, 2008 - 4:32pm
S:\Dwg\4042 Brillo de la Luna (Artcraft Sub)\US-BUILD\4042 view fence.dwg

RECORD DRAWING

BENCHMARK: USGS BRASS CAP "4 REB 1979" IN THE TOP OF A HEADWALL @ COATES AND DONIPHAN DRIVE ELEVATION=3743.65 (EL PASO CITY DATUM)

NO.	DATE	DESCRIPTION	BY
5	07-29-08	RECORD DRAWING	JCK
4	03-31-07	VIEW FENCE OPTION	JCK
3	02-21-06	FINAL CITY SUBMITTAL	JCK
2	02-09-06	2nd CITY SUBMITTAL	JCK
1	01-09-06	1st CITY SUBMITTAL	JCK

STATE OF TEXAS
JOHN C. KARLSRUHER
53878
REGISTERED PROFESSIONAL ENGINEER
7/29/08

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VIEW FENCE OPTION

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ADDENDUM A
of 1