ENGINEERING PLANS

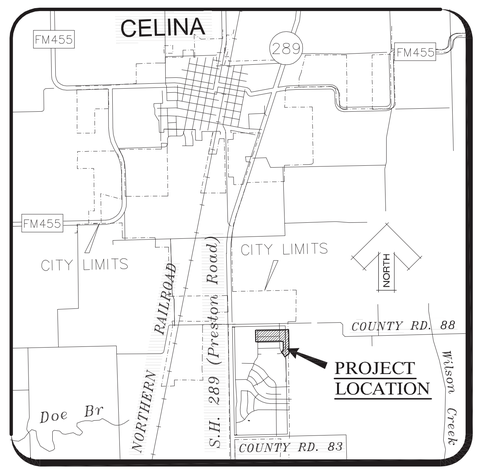
THE CARTER RANCH - PHASE IIC, SECTION 2

CITY OF CELINA, COLLIN COUNTY, TEXAS

DEVELOPER:

CTMGT CR2C FL-2 LLC.

1800 VALLEY VIEW LANE, SUITE 300
Farmers Branch, Texas 75234
PHONE (469) 892-7200 FAX (469) 892-7201



VICINITY MAP
(Not To Scale)

SHEET LIST

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RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

These Plans Have Been Reviewed By USAI QA/QC Committee On July 27, 2015.

Note: All Retaining Walls are to be Constructed Under a Design-Build. Retaining Wall Contractor is Responsible For Providing Sealed Engineered Wall Details To City Before Commencement of Construction For Approval.

CITY OF CELINA
ENGINEERING DEPARTMENT
RELEASED FOR CONSTRUCTION

DATE 8/27/2015 BY _____

PRIOR TO CONSTRUCTION, THE OWNER OR THEIR REPRESENTATIVE SHALL NOTIFY THE CITY OF CELINA ENGINEERING DEPARTMENT AT 972-382-2682 x1081. CONSTRUCTION DRAWINGS STAMPED BY THE CITY OF CELINA SHALL BE ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION. THE CITY OF CELINA STANDARD SPECIFICATIONS FOR CONSTRUCTION SHALL TAKE PRECEDENCE OVER THESE PLANS WHENEVER IN CONFLICT THEREWITH. DISCLAIMER: ALL NECESSARY APPROVALS AND PERMITS SHALL BE ACQUIRED PRIOR TO CONSTRUCTION.

USA PROFESSIONAL SERVICES GROUP, INC.
CIVIL ENGINEERS–SURVEYORS–PLANNERS–LANDSCAPE ARCHITECTS
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED FIRM NO. F–1845
TEXAS BOARD OF PROFESSIONAL LAND SURVEYORS REGISTERED FIRM NO. 101074–00
1525 VICEROY DRIVE, DALLAS, TEXAS 75235
OFFICE: (214) 634–3300 FAX: (214) 634–3338
WWW.USAENGINEERS.COM

JULY 2015

USA JOB NO. 2009016.03

2009016.03 - THE CARTER RANCH - PHASE IIC, SECTION 2 - ENGINEERING PLANS
CITY OF CELINA PLAN NUMBER P-201412-01

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P-201412-01

City of Celina

CONSTRUCTION GENERAL NOTES – Revised 4/3/2014

GENERAL

1. All construction shall be in accordance with the latest revision of the North Central Texas Council of Governments "Standard Specifications for Public Works Construction" including the Standard Drawings therein and the City of Celina's addendum thereto. Contractor shall have at least one set of approved Engineering Plans and Specifications on-site at all times.

2. Before beginning construction, the contractor shall prepare a construction sequence schedule. The construction schedule shall be such that there is minimum interference with traffic along or adjacent to the project.

3. Construction may not begin earlier than 7:00 A.M. on weekdays nor continue after dark without permission from the City of Celina. Construction on holidays and Saturday must be approved two days in advance. A fee of $300.00 a day for working on holidays and Saturday will be accessed payable to the city before work is performed. Work may not begin before 8:00 A.M. on holidays and Saturday and work on Sunday is prohibited without special permission and payment of fees.

4. Utilities shown on the plans were taken from field surveys and information provided by the utility companies. The completeness and the accuracy of this data is not guaranteed.
   The contractor is responsible for verifying the location of all underground utilities and structures and protecting them from damage during construction.
   It will be the responsibility of each contractor to protect all existing public and private utilities throughout the construction of this project. Contractor shall contact the appropriate utility companies for line location prior to commencement of construction and shall assume full liability to those companies for any damages caused to their facilities.

   DIG TESS 800-DIG-TESS
   GCEC-TELECOM 903-482-7274
   GCEC-ELECTRIC 903-821-3007
   AT&T 972-569-3013
   ATMOS ENERGY 972-881-4161
   ATMOS ENERGY 214-341-9900
   CROSSTEX ENERGY 817-570-6753
   ONEOK 903-257-6594
   COSERV-ELEC 940-321-7800
   COSERV-GAS 940-321-7800
   CITY OF CELINA 972-382-2682
   TOWN OF PROSPER 972-347-9969
   MARILEE SUD 972-382-3222
   GRANDE 972-410-0583
   SUDDEN LINK 469-853-0486

5. Work may not be backfilled or covered until the City has inspected it.

6. Material testing shall be performed by an independent testing laboratory and paid for by the Owner.
   The following material tests shall be provided by the Contractor:

   a) Embankment - One soil density test shall be performed at each location for each 500 C.Y. of backfill placed.

   b) Pavement Sub grade - One gradation test (where lime stabilized) and one soil density test shall be performed for each 300 linear feet of pavement unless otherwise noted. Gradations must pass 100% through a 1 ¾" sieve and 60% through a #4 sieve.

   c) Utility Trench Backfill - One soil density test shall be performed at 300 feet intervals or as directed by the Inspector.

   Concrete Tests:

   1) Compressive Strength - Four test cylinders shall be taken from a representative portion of the concrete being placed for every 150-cubic yards of concrete pavement placed, but in no case shall less than 2 sets of cylinders be taken from any one day's placement.)

   2) Air, slump, and temperature tests shall be taken for every set of cylinders made. Concrete with a temperature above 95° F will be rejected.

   3) Additional cylinders and/or tests may be required at the Inspector's discretion. The City shall select the location and depth of each soil density test unless otherwise directed.

7. All excavation on the project is unclassified.

8. Temporary erosion control shall be used to minimize the spread of silt and mud from the project on to existing streets, alleys, drainage ways and public and private property. Temporary erosion controls may include silt fences, rock check dams, stabilized construction entrances, straw bales, berms, dikes, swales, strips of undisturbed vegetation, check dams and other methods as required by the City Manager or his representative and shall conform to the Storm Water Quality Best Management Practices for Construction Activities as published by the North Central Texas Council of Governments and the City of Celina Erosion and Sediment Control Manual.

9. Finished slopes on public rights-of-way and easements shall not be steeper than 4:1. All slopes steeper than 6:1 shall be covered with erosion control matting and are hydro mulched and maintained by the contractor until grass covers all parts of the slope.

10. The contractor shall maintain two-way traffic at all times along the project.

11. Remove, salvage and replace all street and traffic control signs, which may be damaged by the construction of the project.

12. All trenching and excavation shall be performed in accordance with OSHA standards. Trench safety design will be the responsibility of the Contractor. Contractor shall submit a trench safety design approved by a professional engineer to the City for review prior to the start of any underground utility construction.

PAVING

1. All embankments shall be compacted to 95% Standard Proctor density.

2. All streets and alleys shall be placed on lime stabilized sub grade with a lime content of not less than 7 ½% or as approved by the city engineer.

3. The minimum 28 day compressive strength of concrete street paving shall not be less than 3600 psi and shall be air entrained. Water may not be applied to the surface of concrete paving to improve workability.

4. All curb and gutter shall be integral with the pavement.

5. Parabolic crowns are required on all street pavements except on major thoroughfares where straight sections are required.

6. Streets and alleys shall be constructed with provisions for sidewalk ramps at all intersections.

DRAINAGE

1. Storm sewer pipe shall be reinforced concrete, Class III unless otherwise noted.

2. All structural concrete shall be Class "C" (3600 psi compressive strength at 28 days), air entrained.

3. The contractor shall install plugs in storm sewer lines or otherwise prevent mud from entering the storm sewer system during construction.

WATER AND SANITARY SEWER

1. Water mains shall be AWWA C-900 or 14 PVC unless otherwise noted. Minimum cover for waterlines is 48" below top of curb, 60" where no curbed street is present or as required to clear existing utilities, whichever is greater. Class B+ embedment unless otherwise noted.

2. All utility trench backfill shall be performed in 12" loose lifts and mechanically compacted with approved vibratory methods.

3. Marking tape shall be installed one foot above and over PVC water lines.

4. Fittings for PVC water lines shall be ductile iron and be encased in a polyethylene sheath.

5. All Mechanical Joints will be restrained. (Mega-Lug etc.)

6. Valves, including tapping valves shall be resilient seat gate valves, unless noted otherwise.

7. All direct burial valves shall be provided with cast iron valve boxes with PVC stacks. Valve stacks shall be vertical and concentric with the valve stem. Stainless steel valve extensions are required on all valves where the operating nut is greater than 4 feet below finished grade.

8. Fire hydrants shall be Waterous or equal as directed or approved by the City of Celina on a case by case basis and field painted silver with bonnet and caps color-coded to pipe size.

   a) Six inch line- silver body with RED bonnet and caps.

   b) Eight inch line- silver body with BLUE bonnet and caps.

   c) Ten inch line- silver body with GREEN bonnet and caps.

   d) Twelve inch and larger- silver body with YELLOW bonnet and caps.

9. All exposed bolting on any buried equipment or material shall be stainless steel. Included are:

   a) Bonnet and stuffing box bolts on valves.

   b) Shoe bolts on fire hydrants.

   c) Flange bolts.

   d) "Cor-ten" mechanical joint "T" bolts are acceptable for direct burial service.

10. Depending on meter size; meter boxes shall be DFW37C-12-1SAF, DFW38C-14-1SAF,DFW65C-14-1SAF, or approved equal, and shall incorporate the Celina logo in the lid.

11. One sample station shall be provided to the city for every 250 connections.
    Sanitary sewer mains shall be SDR 35 GREEN PVC. Embedment shall be Class H unless otherwise noted.

   a) The contractor shall install and maintain watertight plugs in all connections to the City's sanitary sewer system until the City accepts the project.

   b) All sanitary sewer lines and manholes shall be leak tested before the project is accepted. Deflection testing of PVC sewer lines is required. Deflection shall be tested with a mandrel for 5% deflection.

   c) All sewer lines shall be video inspected with a copy of the video and station report submitted to the Inspector.

   d) Mandrel, Air Test, and Video inspection shall not be performed until all utilities are complete, in place, and backfilled.

Specifications are not meant to exclude any other manufacturer. Any specification may be replaced with an approved equal upon approval by the City of Celina.

RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

REV	DESCRIPTION	DATE

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

GENERAL NOTES

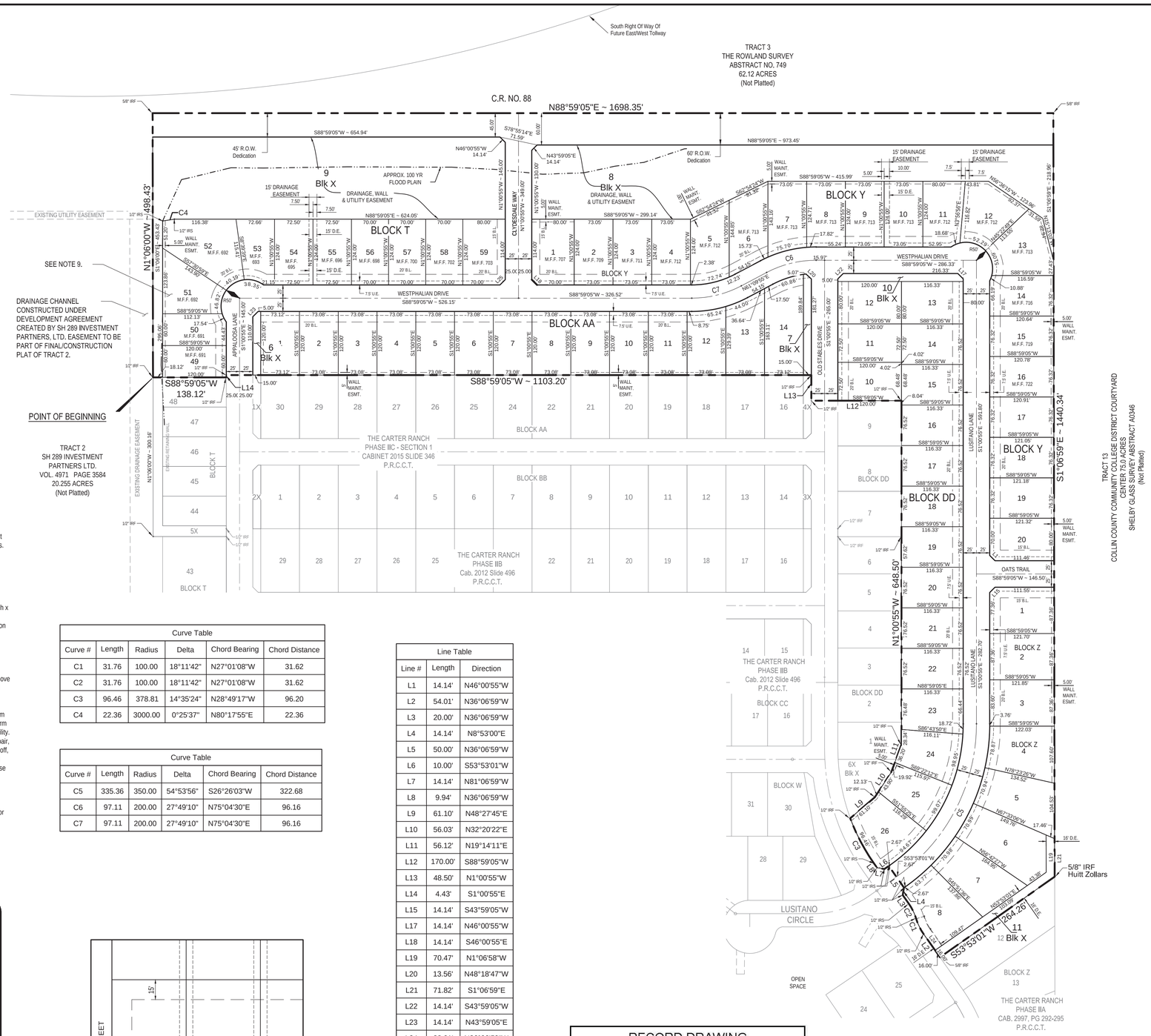
CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: N/A
SHEET: 2 OF 42
PROJECT NO. 2009016.03

CITY OF CELINA PLAN NUMBER P-201412-01



Block T	
Lot	Area
49	7200 s.f.
50	7130 s.f.
51	9759 s.f.
52	14497 s.f.
53	7719 s.f.
54	8990 s.f.
55	8990 s.f.
56	8680 s.f.
57	8680 s.f.
58	8680 s.f.
59	9870 s.f.

Block Y	
Lot	Area
1	9870 s.f.
2	9058 s.f.
3	9058 s.f.
4	9058 s.f.
5	10019 s.f.
6	10515 s.f.
7	9623 s.f.
8	9062 s.f.
9	9058 s.f.
10	9058 s.f.
11	9180 s.f.
12	10622 s.f.
13	11037 s.f.
14	9180 s.f.
15	9213 s.f.
16	9223 s.f.
17	9233 s.f.
18	9243 s.f.
19	9254 s.f.
20	9661 s.f.

Block AA	
Lot	Area
1	8774 s.f.
2	8770 s.f.
3	8770 s.f.
4	8770 s.f.
5	8770 s.f.
6	8770 s.f.
7	8770 s.f.
8	8770 s.f.
9	8770 s.f.
10	8770 s.f.
11	8770 s.f.
12	8969 s.f.
13	10578 s.f.
14	13102 s.f.

Block DD	
Lot	Area
10	8700 s.f.
11	8700 s.f.
12	9600 s.f.
13	9306 s.f.
14	8901 s.f.
15	8901 s.f.
16	8901 s.f.
17	8901 s.f.
18	8901 s.f.
19	8901 s.f.
20	8901 s.f.
21	8901 s.f.
22	8901 s.f.
23	9400 s.f.
24	9366 s.f.
25	9454 s.f.
26	11341 s.f.

Block Z	
Lot	Area
1	10575 s.f.
2	10638 s.f.
3	10652 s.f.
4	11722 s.f.
5	12675 s.f.
6	14601 s.f.
7	12743 s.f.
8	12275 s.f.

Block X	
Lot	Area
6	1750 s.f.
7	2810 s.f.
8	99737 s.f.
9	108509 s.f.
10	3445 s.f.
11	5300 s.f.

PLAT NOTES

1. All open space / common area lots are to be dedicated to the HOA and the HOA will be responsible for the maintenance and upkeep of said lots.

2. Sidewalks must be installed by the Developer along all open space and common area lots

3. The City of Celina will not exclude other utilities from dedicated water & sewer easements but reserves the right to assign the locations of other utilities in available portions of said easements. Franchise utilities shall be placed just inside the outside edge of the right-of-way (outside of sidewalk).

4. A fence may be constructed along lot lines within a surface drainage easement provided the fence does not obstruct surface drainage.

5. All lot corners and boundary corners will be set upon completion of construction with 1/2 inch x 18 inch iron rods with red plastic caps stamped "USA INC." The centerline of the street right-of-way will be monumented with a scribed "X" in concrete at the p.c.'s, p.t.'s and intersection points.

6. All water, sanitary sewer and drainage easements to be dedicated to the City of Celina and maintained by the HOA.

7. A FINAL LOMR has been submitted and is under final review "Case No. 14-06-4171P to remove all lots as shown from the 100 year delineated flood plain. Said LOMR is based upon approved CLOMR Case No. 05-06-1004R.

8. The HOA shall be solely responsible for the maintenance of the storm water system and storm drainage system on private property. The HOA shall further hold the City of Celina harmless form any damages to persons, to the owner's lot or any lot arising from such maintenance responsibility. The drainage easement shown hereunder shall not create any affirmative duty to the City to repair, maintain or correct any condition that exists or occurs due to the natural flow of storm water runoff, including but not limited to, storm water overflow, erosion and sloughing, loss of vegetation and trees, subsidence, and interference with structures. The City retains the right to enter upon these easements for public purposes.

9. Permits for lots 52-49 will not be issued until final LOMR is approved by FEMA.

10. On Lots with Side Drainage Easements wider than the Typical 5' Side Yard, The Sideyard for that Lot will be at Drainage Easement.

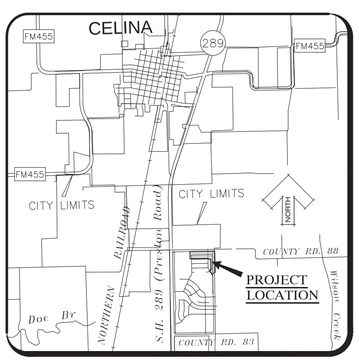
Curve Table					
Curve #	Length	Radius	Delta	Chord Bearing	Chord Distance
C1	31.76	100.00	18°11'42"	N27°01'08"W	31.62
C2	31.76	100.00	18°11'42"	N27°01'08"W	31.62
C3	96.46	378.81	14°35'24"	N28°49'17"W	96.20
C4	22.36	3000.00	0°25'37"	N80°17'55"E	22.36

Curve Table					
Curve #	Length	Radius	Delta	Chord Bearing	Chord Distance
C5	335.36	350.00	54°53'56"	S26°26'03"W	322.68
C6	97.11	200.00	27°49'10"	N75°04'30"E	96.16
C7	97.11	200.00	27°49'10"	N75°04'30"E	96.16

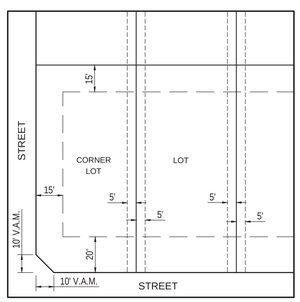
Line Table		
Line #	Length	Direction
L1	14.14'	N46°00'55"W
L2	54.01'	N36°06'59"W
L3	20.00'	N36°06'59"W
L4	14.14'	N8°53'00"E
L5	50.00'	N36°06'59"W
L6	10.00'	S53°53'01"W
L7	14.14'	N81°06'59"W
L8	9.94'	N36°06'59"W
L9	61.10'	N48°27'45"E
L10	56.03'	N32°20'22"E
L11	56.12'	N19°14'11"E
L12	170.00'	S88°59'05"W
L13	48.50'	N1°00'55"W
L14	4.43'	S1°00'55"E
L15	14.14'	S43°59'05"W
L17	14.14'	N46°00'55"W
L18	14.14'	S46°00'55"E
L19	70.47'	N1°06'58"W
L20	13.56'	N48°18'47"W
L21	71.82'	S1°06'59"E
L22	14.14'	S43°59'05"W
L23	14.14'	N43°59'05"E
L24	38.01'	N36°06'59"W
L25	14.14'	N43°59'05"E

LEGEND	
SYMBOL	DESCRIPTION
S.F.	Lot Area (Square Feet)
U.E.	Utility Easement (By This Plat)
W.E.	Waterline Easement (By This Plat)
S.E.	Sanitary Sewer Easement (By This Plat)
B.L.	Minimum Building Setback Line
D.E.	Drainage Easement
M.F.F.	Minimum Finished Floor Elevation
IRS	Iron Rod Set
5/8" IRF	Iron Rod Found with Cap Stamped "Huitt-Zollars"
1/2" IRF	Iron Rod Found with Cap Stamped "USA INC"
SET "x"	"x" Cut In Concrete Pavement
FND "x"	"x" Found In Concrete Pavement
D.R.C.C.T.	Deed Records, Collin County, Texas
O.P.R.C.C.T.	Official Public Records, Collin County, Texas
P.R.C.C.T.	Plat Records, Collin County, Texas
V.A.M.	Visibility, Access and Maintenance Easement

AREA TABLE	
Street Right-of-Way	272,930 S.F. / 6.27 Acres
Lots	676,698 S.F. / 15.54 Acres
HOA Lots	206,277 S.F. / 4.74 Acres
Gross Area	1,155,904 S.F. / 26.536 Acres



VICINITY MAP
(Not To Scale)



TYPICAL SETBACK LINES
NOT TO SCALE

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

Developer/Owner:
CTMGT CR2C FL-2 LLC.
1800 Valley View Lane Suite #300
Farmers Branch,Tx 75234
Phone (469)892-7200 Fax (469)892-7201

FINAL PLAT

THE CARTER RANCH
PHASE IIC - SECTION 2
70 RESIDENTIAL LOTS
6 OPEN SPACE/COMMON AREA LOTS (BLOCK X, LOTS 6-11)
26.536 ACRES
SITUATED IN THE
SHELBY GLASS SURVEY ABSTRACT No. 346
CITY OF CELINA, COLLIN COUNTY, TEXAS

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1845
TEXAS BOARD OF PROFESSIONAL LAND SURVEYING REGISTERED SURVEYING FIRM 101074-00
CIVIL ENGINEERS - SURVEYORS - PLANNERS LANDSCAPE ARCHITECTS
1525 Viceroy Drive
Dallas, Texas 75235
(214) 634-3300 Fax (214) 634-3338

OCTOBER 10, 2016 — 2009016.03
SHEET 1 OF 2

CITY CASE NO. _____

Recording Information: Cabinet_____ Page_____

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P-201412-01

STATE OF TEXAS
COUNTY OF COLLIN

OWNER'S DEDICATION

WHEREAS, CTMGT CR2C FL- 2LLC is the owner of a **26.536** acre tract of land out of the Shelby Glass Survey, Abstract No.346, in the City of Celina, Collin County, Texas and being part of Tract 2 and all of Tract 3 as described in a deed to 19 FM, Ltd., as recorded in Document No. 20070606000766060 of the Official Public Records follows:

BEGINNING at a ½ inch iron rod with cap stamped "USA INC." found for corner and being the Northwest corner of Lot 5 Block X of The Carter Ranch Phase II C Section One, as recorded in Cabinet 2015 Slide 346 of the Plat Records of Collin County, Texas and being on the East line of Tract 2 in a deed to SH 289 Investment Partners LTD as recorded in Volume 4971 Page 3584 of the Deed Records of Collin County, Texas.

THENCE North 01 degree 06 minutes 00 seconds West continuing along the East line of said SH 289 Investment Partners LTD tract a distance of 498.43 feet to a 5/8 inch iron rod found for corner, said point being in the approximate centerline of County Road No. 88, said rod also being the Northeast corner of a tract of land in a deed to SH 289 Investment Partners, Ltd., as recorded in Volume 4971, Page 3584 of the Deed Records of Collin County, Texas.

THENCE North 88 degrees 59 minutes 05 seconds East along the North line of said One Carter Ranch L.P. Tract and the approximate centerline of County Road No. 88 a distance of 1,698.35 feet to a 5/8 inch iron rod found for corner.

THENCE South 01 degree 06 minutes 59 seconds East departing the approximate centerline of said County Road No. 88 and along the West line of Tract 13 Collin County Community College District Courtyard Center 75.0 acre tract a distance of 1,440.34 to a 5/8 inch iron rod with cap stamped "Huitt Zollars" found for corner said rod being the most Northeasterly corner of lot 12 Block "Z" of The Carter Ranch Phase IIA as recorded in Cabinet 2997 Page 292 of the Plat Records, Collin County, Texas.

THENCE South 53 degrees 53 minutes 01 seconds West departing the East line of said One Carter Ranch tract and West of said Tract 13 and along the most Northerly line of said lot 12 Block "Z", a distance of 264.26 to a 5/8 inch iron rod found for corner, said point being on the most Easterly Right of Way line of "Old Stables Drive" of said Carter Ranch Phase IIA

THENCE along the most Easterly Right of Way line of said "Old Stables Drive" the following calls:

THENCE North 36 degrees 06 minutes 59 seconds West a distance of 54.01 feet to a 1/2 inch iron rod with cap stamped "USA INC" set for corner and the beginning of a curve to the right having a central angle of 18 degrees 11 minutes 42 seconds, a radius of 100.00 feet, a chord which bears North 27 degrees 01 minutes 08 seconds West and a chord distance of 31.62 feet.

THENCE along said curve an arc distance of 31.76 feet to a 1/2 inch iron rod with cap stamped "USA INC" set for corner and the point of reverse curve to the left having a central angle of 18 degrees 11 minutes 42 seconds, a radius of 100.00 feet, a chord which bears North 27 degrees 01 minutes 08 seconds West and a chord distance of 31.62 feet.

THENCE along said curve an arc distance of 31.76 feet to a 1/2 inch iron rod with cap stamped "USA INC" set for corner.

THENCE North 36 degrees 06 minutes 59 seconds West a distance of 20.00 feet to a 1/2 inch iron rod with cap stamped "USA INC" set for corner.

THENCE North 08 degrees 53 minutes 00 seconds East a distance of 14.14 feet to a 1/2 inch iron rod with cap stamped "USA INC" set for corner.

THENCE North 36 degrees 06 minutes 59 seconds West a distance of 50.00 feet to a 1/2 inch iron rod with cap stamped "USA INC." set for corner

THENCE South 53 degrees 53 minutes 01 seconds West a distance of 10.00 feet to a 1/2 inch iron rod with cap stamped "USA INC" set for corner.

THENCE North 81 degrees 06 minutes 59 seconds West a distance of 14.14 feet to a 1/2 inch iron rod with cap stamped "USA INC." set for corner.

THENCE North 36 degrees 06 minutes 59 seconds West a distance of 9.94 feet to a 1/2 inch iron rod with cap stamped "USA INC." set for corner and the beginning of a curve to the right having a central angle of 14 degrees 35 minutes 24 seconds, a radius of 378.81 feet, a chord which bears North 28 degrees 49 minutes 17 seconds West and a chord distance of 96.20 feet.

THENCE along said curve an arc distance of 96.46 feet to a 1/2 inch iron rod with cap stamped "USA INC" found for corner.

THENCE departing the most Easterly Right of Way line of "Old Stables Drive" and along the most Easterly line of said The Carter Ranch Phase IIB the following calls:

THENCE North 48 degrees 27 minutes 45 seconds East a distance of 61.10 feet to a 1/2 inch iron rod with cap stamped "USA INC" found for corner.

THENCE North 32 degrees 20 minutes 22 seconds East a distance of 56.03 feet to a 1/2 inch iron rod with cap stamped "USA INC." found for corner

THENCE North 19 degrees 14 minutes 11 seconds East a distance of 56.12 feet to a 1/2 inch iron rod with cap stamped "USA INC." found for corner

THENCE North 01 degree 00 minutes 55 seconds West passing a 1/2 inch iron rod with cap stamped "USA INC." found for the Northeast corner of lot 6 Block DD and the Northeast corner of The Carter Ranch Phase IIB at a distance of 392.00 feet and continuing for a total distance of 648.50 feet to a 1/2 inch iron rod with cap stamped "USA INC." found for corner, said rod being the Northeast corner of lot 9 Block DD and the most Easterly Northeast corner of The Carter Ranch Phase 2C Section 2.

THENCE along the North line of said The Carter Ranch Phase 2B Section1 the following calls:

THENCE South 88 degrees 59 minutes 05 seconds West along the North line of said lot 9 Block DD and passing the Northwest corner of lot Block 9 DD at a distance of 120.00 feet and continuing for a total distance of 170.00 a 1/2 inch iron rod with cap stamped "USA INC." found for corner, said rod being on the West right of way of Old Stables Drive.

THENCE North 01 degrees 00 minutes 55 seconds West along the West right of way of Old Stables Drive and the East line of Lot 4X Block AA, a distance of 48.50 feet to a 1/2 inch iron rod with cap stamped "USA INC." found for corner.

THENCE South 88 degrees 59 minutes 05 seconds West a distance of 1103.20 feet to a 1/2 inch iron rod with cap stamped "USA INC." found for corner in the West Right of Way line of Appaloosa Lane.

THENCE South 01 degree 00 minutes 55 seconds East along the West Right of Way line of Appaloosa Lane a distance of 4.43 feet to a 1/2 inch iron rod with cap stamped "USA INC" found for corner, said rod being the Northeast corner of lot 48 Block "T" of said Carter Ranch Phase 2C, Section 1.

THENCE South 88 degrees 59 minutes 05 seconds West along the North line of said lot 48 Block T, a distance of 138.12 feet to the **POINT OF BEGINNING** and containing **26.536** acres or **1,155, 904** square feet of land more or less.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

That **CTMGT CR2C FL-2 LLC**, acting herein by and through its duly authorized officer(s), does hereby adopt this plat designating the herein above described property as The Carter Ranch Phase IIC - Section 2 an addition to the City of Celina, Texas, and does hereby dedicate, in fee simple to the public use forever, the streets, rights-of-way, and other public improvements shown thereon. The streets and alleys, if any, are dedicated for street purposes. The easements and public use areas, as shown, are dedicated, for the public use forever, for the purposes indicated on this plat. No buildings, fences, trees, shrubs or other improvements or growths shall be constructed or placed upon, over or across the easements as shown, except that landscape improvements may be placed on landscape easements, if approved by the City Council of the City of Celina. In addition, utility easements may also be used for the mutual use and accommodation of all public utilities desiring to use or using the same unless the easement limits the use to particular utilities, said use by public utilities being subordinate to the public's and City of Celina's use thereof. The City of Celina and public utility entities shall have the right to remove and keep removed all or parts of any buildings, fences, trees, shrubs or other improvements or growths which may in any way endanger or interfere with the construction, maintenance, or efficiency of their respective systems in said easements. The City of Celina and public utility entities shall at all times have the full right ingress and egress to or from their respective easements for the purpose of constructing, reconstructing, inspecting, patrolling, maintaining, reading meters, and adding to or removing all or parts of their respective systems without the necessity at any time procuring permission from anyone.

This plat approved subject to all platting ordinances, rules, regulations and resolutions of the City of Celina, Texas

WITNESS, my hand, this the _____ day of _____, 2016.

CTMGT CR 2C FL-2, LLC,
a Texas limited liability company

By: 19 FM, Ltd.,
a Texas limited partnership
Its Sole Member

By: Centamtar Terras, LLC,
a Texas limited liability company,
Its General Partner

By: CTMGT, LLC,
a Texas limited liability company,
Its Sole Manager and Member

By:_____
Name: Mehrdad Moayedi,
Its: Sole Manager and Member

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on _____ 20_____, by Mehrdad Moayedi, the Sole Manager and Member of CTMGT, LLC, as the Sole Manager and Member of Centamtar Terras, LLC, as the General Partner of 19 FM, Ltd., a Texas limited partnership, the Sole Member of CTMGT CR 2C FL-2, LLC, a limited liability company on behalf of said limited liability company.

_____
Notary Public, State of Texas

STANDARD NOTES

1. Selling a portion of this addition by metes and bounds is a violation of city ordinance and state law, and is subject to fine and withholding of utilities and building permits.

2. The undersigned does hereby covenant and agree that he or she or they shall construct upon the fire lane easements, as dedicated as shown hereon, a hard surface in accordance with the City of Celina's paving standards for fire lane, and that he or she or they shall maintain the same in a state of good repair at all times and keep the same free and clear of any structures, fences, trees, shrubs or other improvements or obstruction, including but not limited to the parking of motor vehicles, trailers, boats or other impediments to the accessibility of fire apparatus. The maintenance of paving on the fire lane easements Is the responsibility of the owner, and the owner shall post and maintain appropriate signs in conspicuous places along such fire lanes, stating "Fire Lanes, No Parking". The local law enforcement agency(s) is hereby authorized to enforce parking regulations within the fire lanes, and to cause such fire lanes and utility easements to be maintained free and unobstructed at all times for Fire Department and emergency use.

3. The undersigned does hereby covenant and agree that the access easement may be utilized by any person or the general public for ingress and egress to public vehicular and pedestrian use and access, and for Fire Department and emergency use in, along, upon and across said premises, with the right and privilege at all times of the City of Celina, its agents, employees, workmen and representatives having ingress, egress, and regress in, along, upon and across said premises

4. The areas or areas shown on the plat as "VAM" (Visibility, Access and Maintenance) Easement(s) are hereby given and granted to the city, its successors and assigns, as an easement to provide visibility, right of access for maintenance upon and across said VAM Easement. The city shall have the right but not the obligation to maintain any and all landscaping within the VAM Easement. Should the city exercise this maintenance right, then it shall be permitted to remove and dispose of any and all landscaping improvements, including without limitations any trees, shrubs, flowers, ground cover and fixtures. The city may withdraw maintenance of the VAM Easement at any time. The ultimate maintenance responsibility for the VAM Easement shall rest with the owners. No building, fence, shrub, tree or other improvements or growths, which in any way may endanger or interfere with the visibility, shall be constructed in, on, over, or across the VAM Easement. The city shall also have the right but not the obligation to add any landscape improvements to the VAM easements, to erect any traffic control devices or signs on the VAM Easement and to remove any obstruction thereon. The city, its successors, assigns, or agents shall have the right and privilege at all times to enter upon the VAM Easement or any part thereof for the purposes and with all rights and privilege set forth herein.

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

KNOW ALL MEN BY THESE PRESENTS:

THAT, I, Gary Romatz, do hereby certify that I prepared this plat from an actual and accurate survey of the land and that the corner monuments shown thereon as "set" were properly placed under my personal supervision, in accordance with the Subdivision Ordinance of the City of Celina, Texas.

_____
Gary Romatz, Registered Professional Land Surveyor
USA Professional Services Group, Inc.

_____
Texas Registration No. 5016

STATE OF TEXAS
COUNTY OF DENTON

Before me, the undersigned authority, a Notary Public in and for the State of Texas, on this day personally appeared **Gary Romatz**, Registered Professional Land Surveyor, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and considerations therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this _____ day _____, 2016.

_____
Notary Public in and for the State of Texas

_____
My Commission Expires On:

FINAL PLAT
Approved by the City of Celina for filing at the office of the County Clerk of Collin County, Texas

RECOMMENDED BY: Planning and Zoning Commission
City of Celina, Texas

_____ _____
Signature of Chairperson Date of Recommendation

APPROVED BY: City Council
City of Celina, Texas

_____ _____
Signature of Mayor Date of Approval

ATTEST:

_____ _____
City Secretary Date

PROPERTY LOCATION STATEMENT

This property is located in the corporate limits of the City of Celina, Collin County, Texas.

_____ _____
Signature of Mayor Date of Approval

ATTEST:

_____ _____
City Secretary Date

Developer/Owner:
CTMGT CR2C FL-2 LLC.
1800 Valley View Lane Suite #300
Farmers Branch,Tx 75234
Phone (469)892-7200 Fax (469)892-7201

FINAL PLAT

THE CARTER RANCH
PHASE IIC - SECTION 2
70 RESIDENTIAL LOTS
6 OPEN SPACE/COMMON AREA LOTS (BLOCK X, LOTS 6-11)
26.536 ACRES
SITUATED IN THE
SHELBY GLASS SURVEY ABSTRACT No. 346
CITY OF CELINA, COLLIN COUNTY, TEXAS

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1845
TEXAS BOARD OF PROFESSIONAL LAND SURVEYING REGISTERED SURVEYING FIRM 10107-00
CIVIL ENGINEERS - SURVEYORS - PLANNERS LANDSCAPE ARCHITECTS
1525 Viceroy Drive
Dallas, Texas 75235
(214) 634-3300 Fax (214) 634-3338

OCTOBER 10, 2016 2009016.03
SHEET 2 OF 2

CITY CASE NO. _____

Recording Information: Cabinet_____ Page_____

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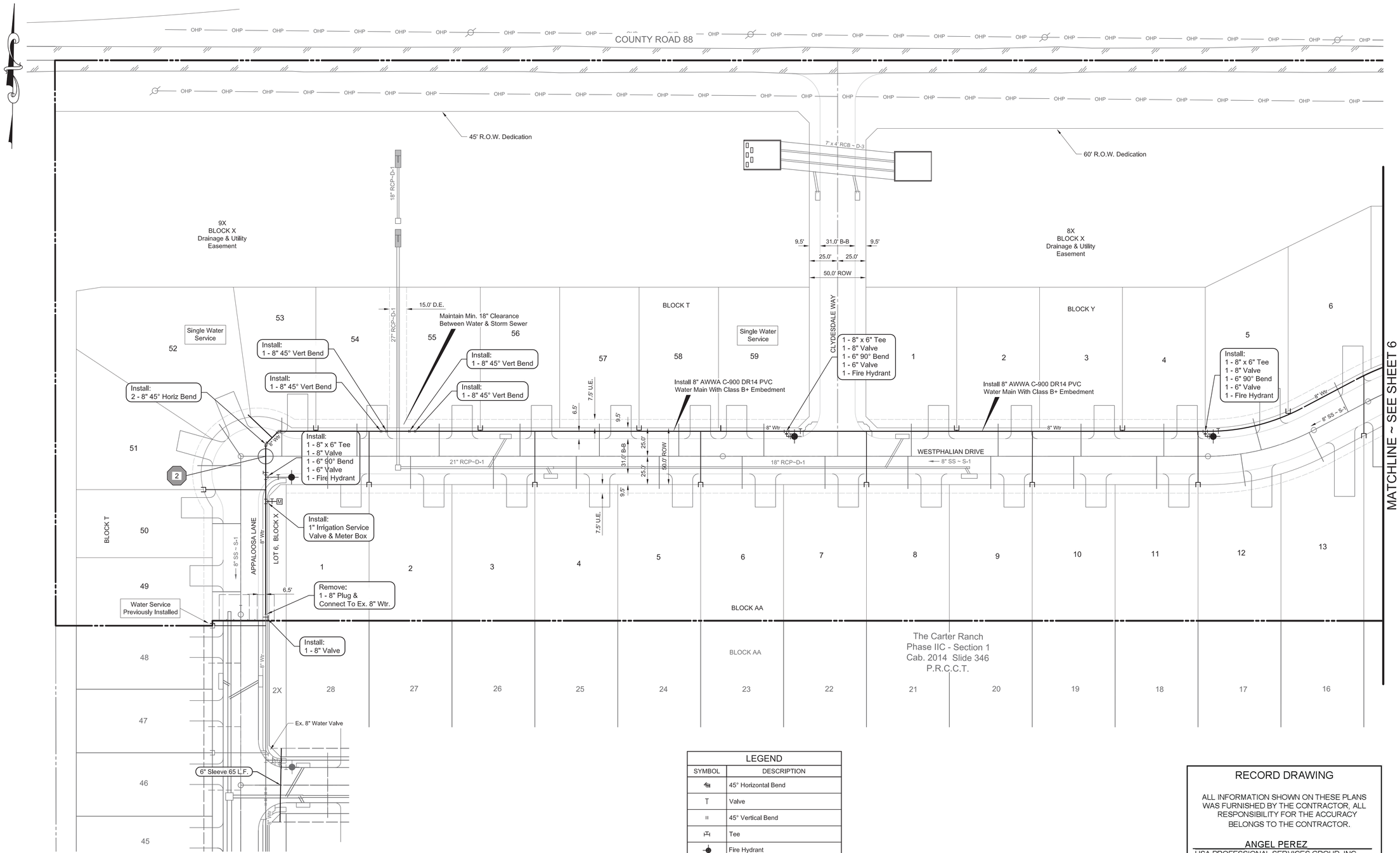

BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

TBM #2 = "X" Found in concrete at the centerline intersection of Equine Lane and Old Stables Drive located in "The Carter Ranch Phase IIA". Elevation =728.63 feet

CM #5 = Concrete monument with 5/8 inch iron rod with cap stamped "Hulft-Zollars" at the Southeast corner of the intersection of State Highway 289 and County Road 88, located approximately 45' feet South of the centerline of County Road 88 and 112' feet East of the centerline of State Highway 289 Elevation = 681.76 feet

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

LEGEND	
SYMBOL	DESCRIPTION
	45° Horizontal Bend
	Valve
	45° Vertical Bend
	Tee
	Fire Hydrant
	Water Services Per Detail
	Water Cross
	8" Water Main
	Water Service - Single
	Water/Sanitary Sewer Crossing Case # (See Sheet 38 For Crossing Details)

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

Notes:
All Valves To Be Located Outside Barrier Free Ramps.
See Sheet 2 For General Notes.
See Sheets 36 & 37 For Water Details &
Sheets 38 & 39 For Sanitary Sewer & TCEQ Crossing Details.
Lot 52 Blk T & 59 Blk T Have Single Service.

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS
WATER PLAN

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHOLIRBUSCH
53004
REGISTERED PROFESSIONAL ENGINEER
10/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H
SHEET: 5 OF 42
PROJECT NO. 2009016.03

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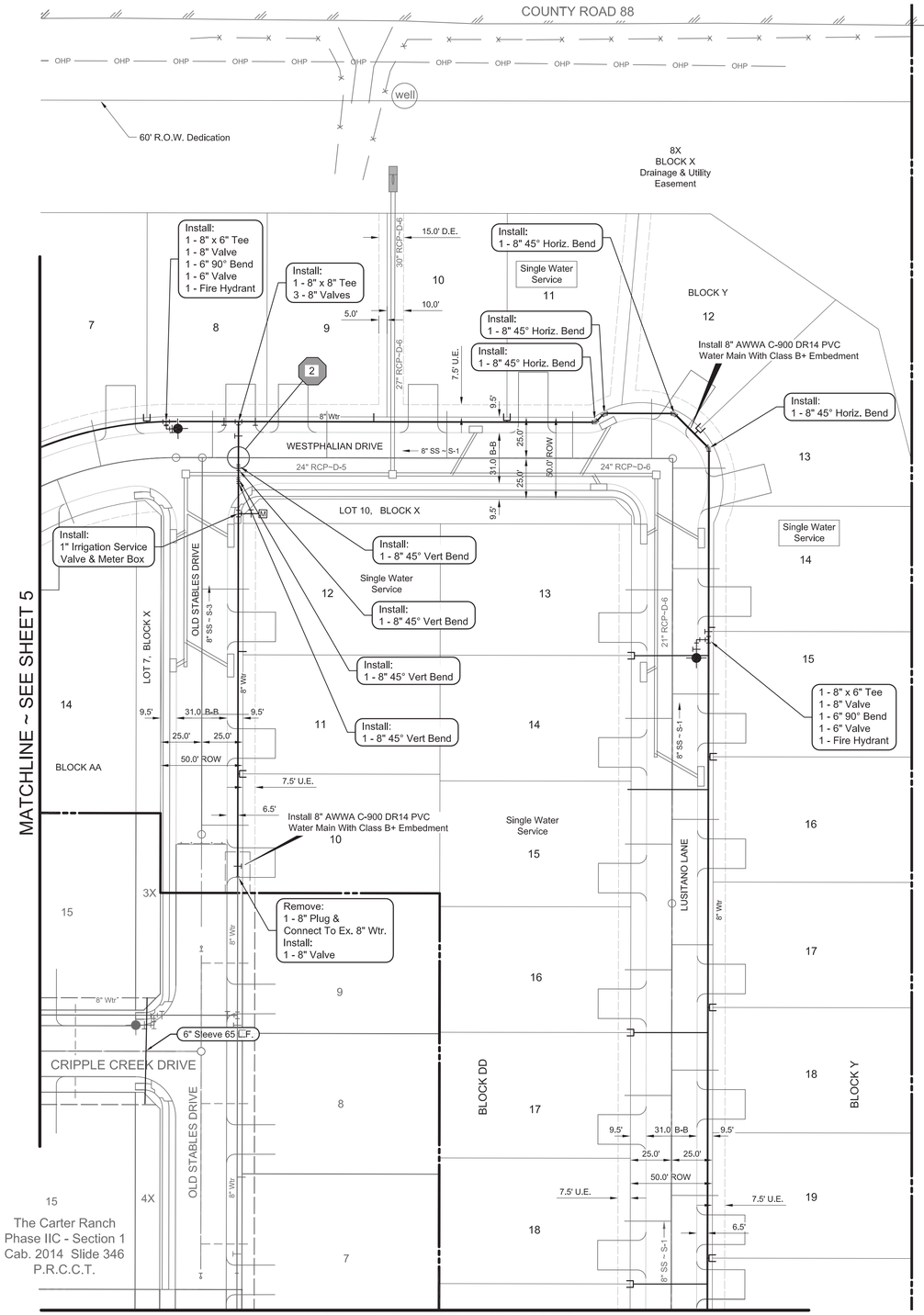
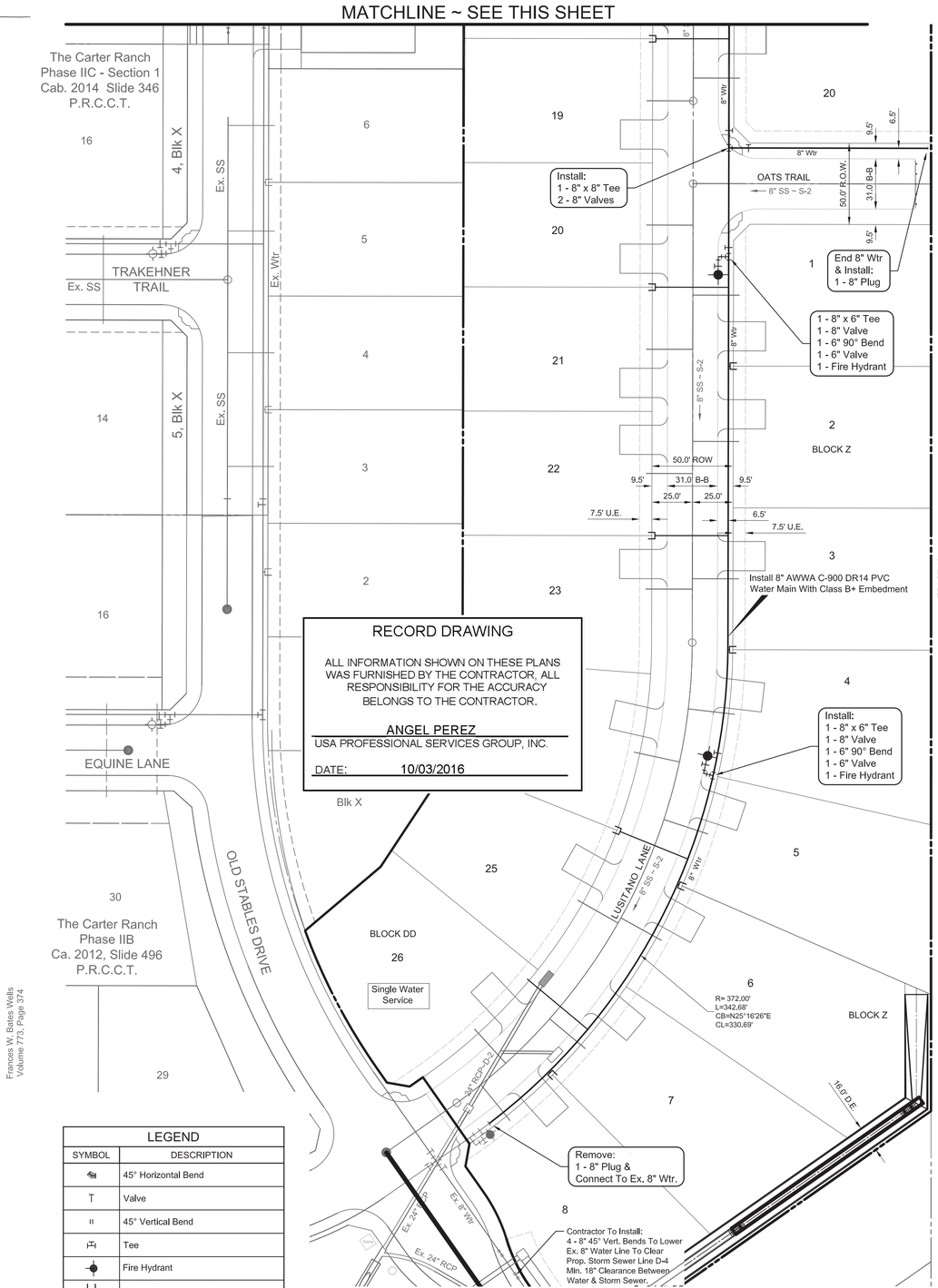
P-201412-01





RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA".
Elevation = 687.57 feet

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Elevation =728.63 feet

CM #5 = Concrete monument with 5/8 inch iron rod with cap stamped "Huitt-Zollars" at the Southeast corner of the intersection of State Highway 289 and County Road 88, located approximately 45' feet South of the centerline of County Road 88 and 112' feet East of the centerline of State Highway 289
Elevation = 681.76 feet

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

LEGEND	
SYMBOL	DESCRIPTION
	45° Horizontal Bend
	Valve
	45° Vertical Bend
	Tee
	Fire Hydrant
	Water Services Per Detail
	Water Cross
	8" Water Main
	Water Service - Single
1	Water/Sanitary Sewer Crossing Case # (See Sheet 38 For Crossing Details)

Notes:
All Valves To Be Located Outside Barrier Free Ramps.
See Sheet 2 For General Notes.
See Sheets 36 & 37 For Water Details &
Sheets 38 & 39 For Sanitary Sewer & TCEQ Crossing Details.
Lots 11& 14 Blk Y and Lot 26 Blk DD Have Single Service.

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS
WATER PLAN

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H
SHEET: 6 OF 42
PROJECT NO. 2009016.03

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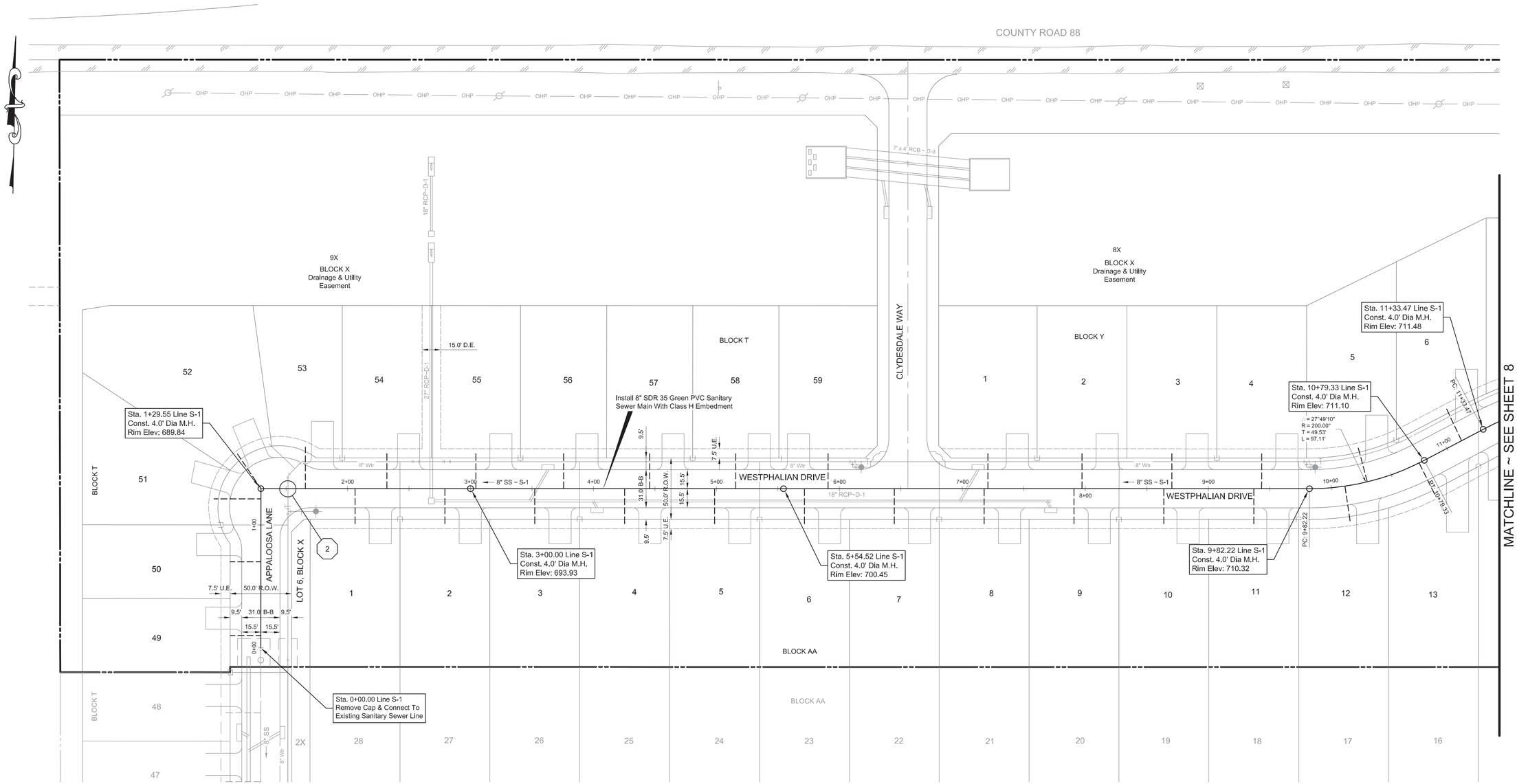
P-201412-01



BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

TBM #2 = "X" Found in concrete at the centerline intersection of Equine Lane and Old Stables Drive located in "The Carter Ranch Phase IIA". Elevation =728.63 feet

CM #5 = Concrete monument with 5/8 inch iron rod with cap stamped "Huitt-Zollars" at the Southeast corner of the intersection of State Highway 289 and County Road 88, located approximately 45' feet South of the centerline of County Road 88 and 112' feet East of the centerline of State Highway 289 Elevation = 681.76 feet

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

LEGEND

SYMBOL	DESCRIPTION
	45° Horizontal Bend
	Valve
	45° Vertical Bend
	Tee
	Fire Hydrant
	Water Services
	Plug
	Water Cross
	Water Main
	Water Service
1	Water/Sanitary Sewer Crossing Case # (See Sheet 38 For Crossing Details)

RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

Notes:
See Sheet 2 For General Notes
See Sheets 36 & 37 For Water Details & Sheets 38 & 39 For Sanitary Sewer & TCEQ Crossing Details

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS
SANITARY SEWER PLAN

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H
SHEET: 7 OF 42
PROJECT NO. 2009016.03

P-201412-01

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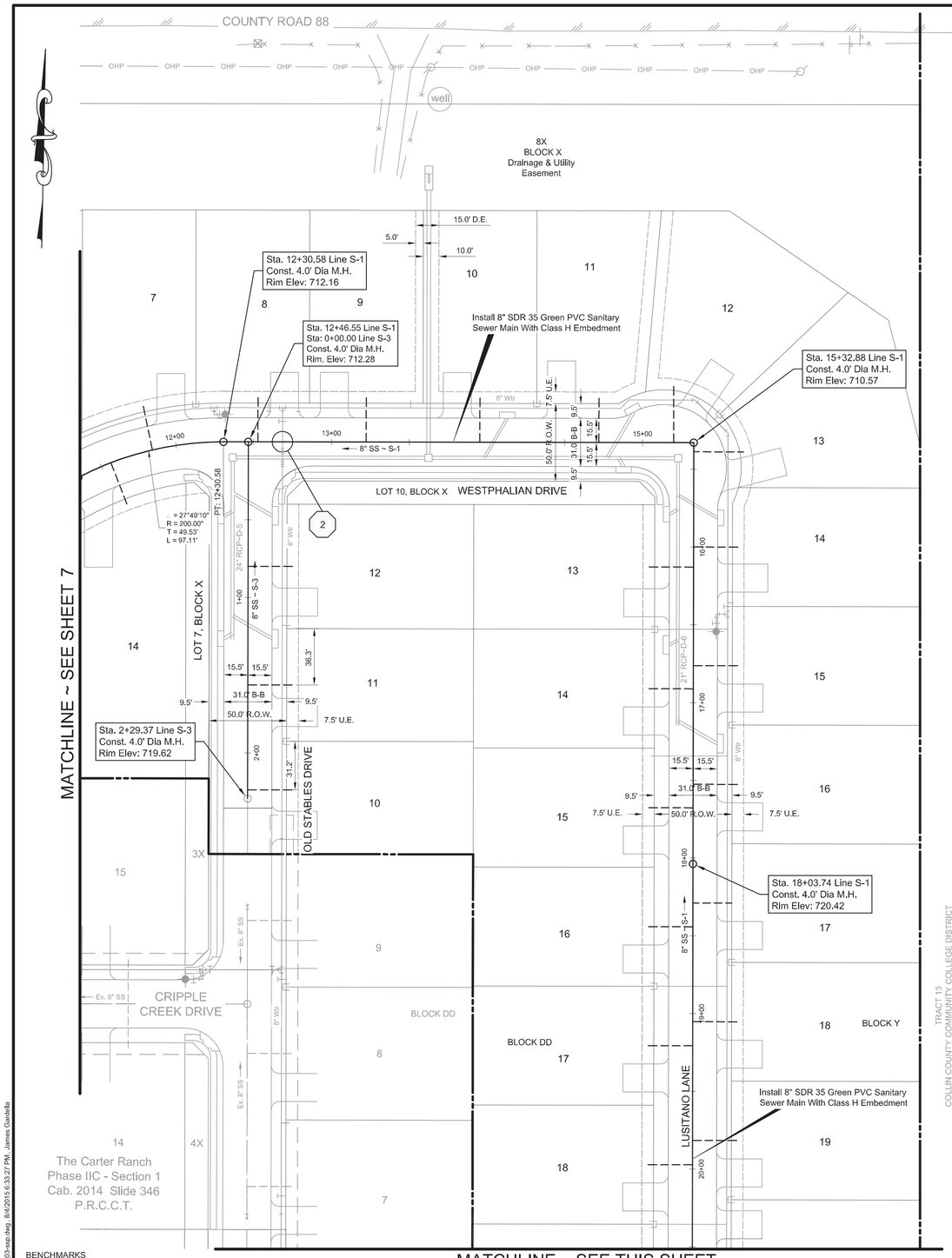

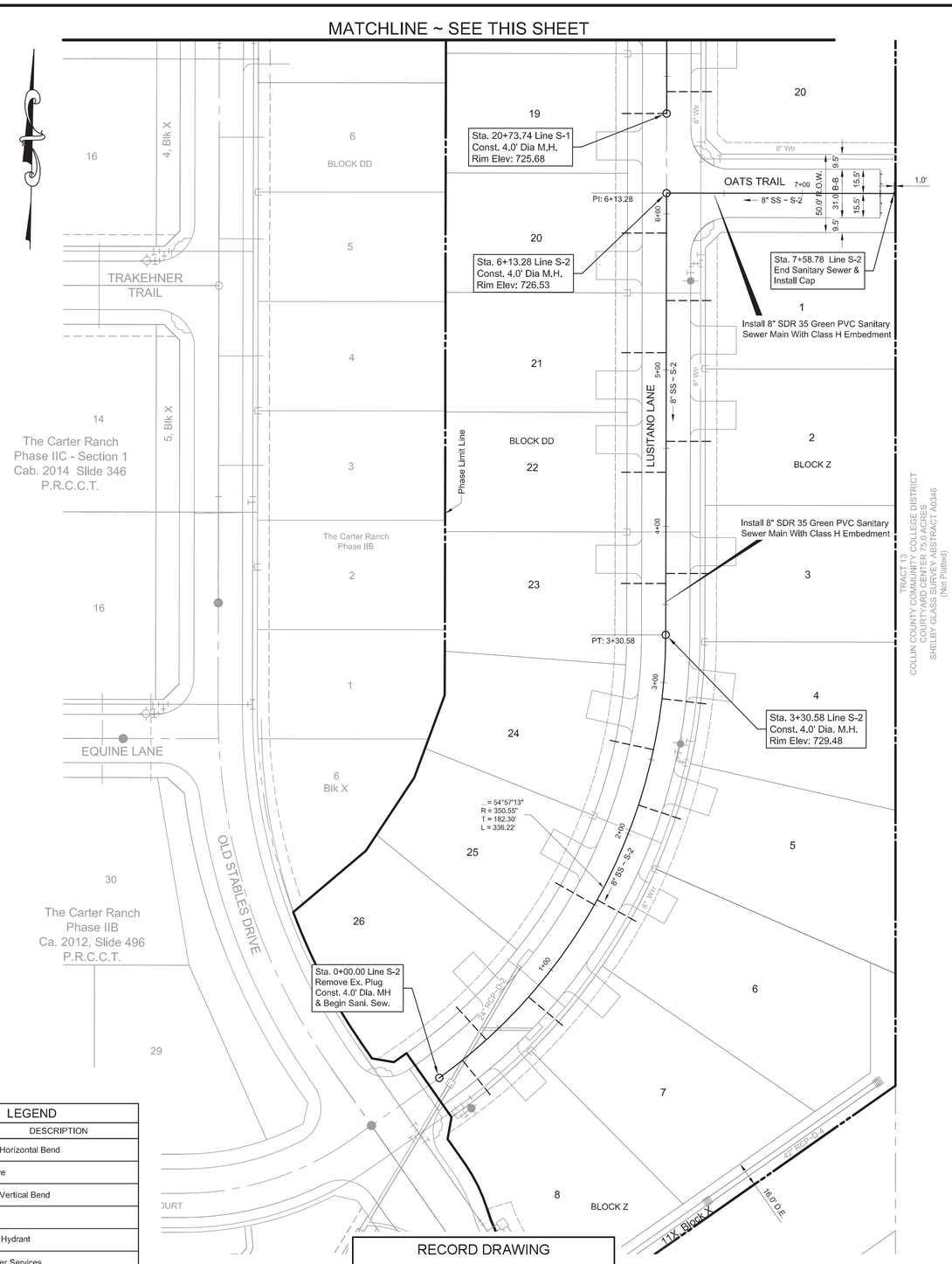

TRACT 13
COLLIN COUNTY COMMUNITY COLLEGE DISTRICT
COUNTY AREA 0.0000 ACRES
SHELBY GLASS SURVEY ABSTRACT A0346
(Not Platted)

MATCHLINE ~ SEE THIS HEADER

BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

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GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

LEGEND	
SYMBOL	DESCRIPTION
	45° Horizontal Bend
	Valve
	45° Vertical Bend
	Tee
	Fire Hydrant
	Water Services
	Plug
	Water Cross
	Water Main
	Water Service
	Water/Sanitary Sewer Crossing Case # (See Sheet 38 For Crossing Details)

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

Notes:
See Sheet 2 For General Notes
See Sheets 36 & 37 For Water Details &
Sheets 38 & 39 For Sanitary Sewer &
TCEQ Crossing Details

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS
SANITARY SEWER PLAN

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/29/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H
SHEET: 8 OF 42
PROJECT NO. 2009016.03

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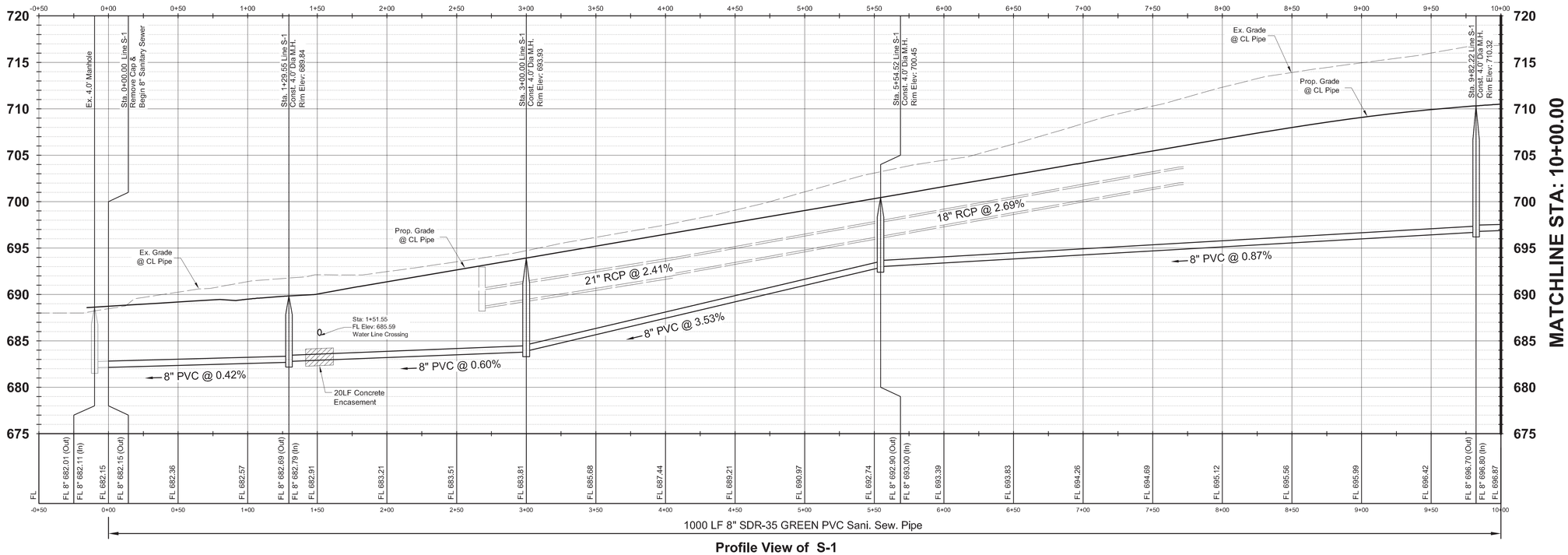
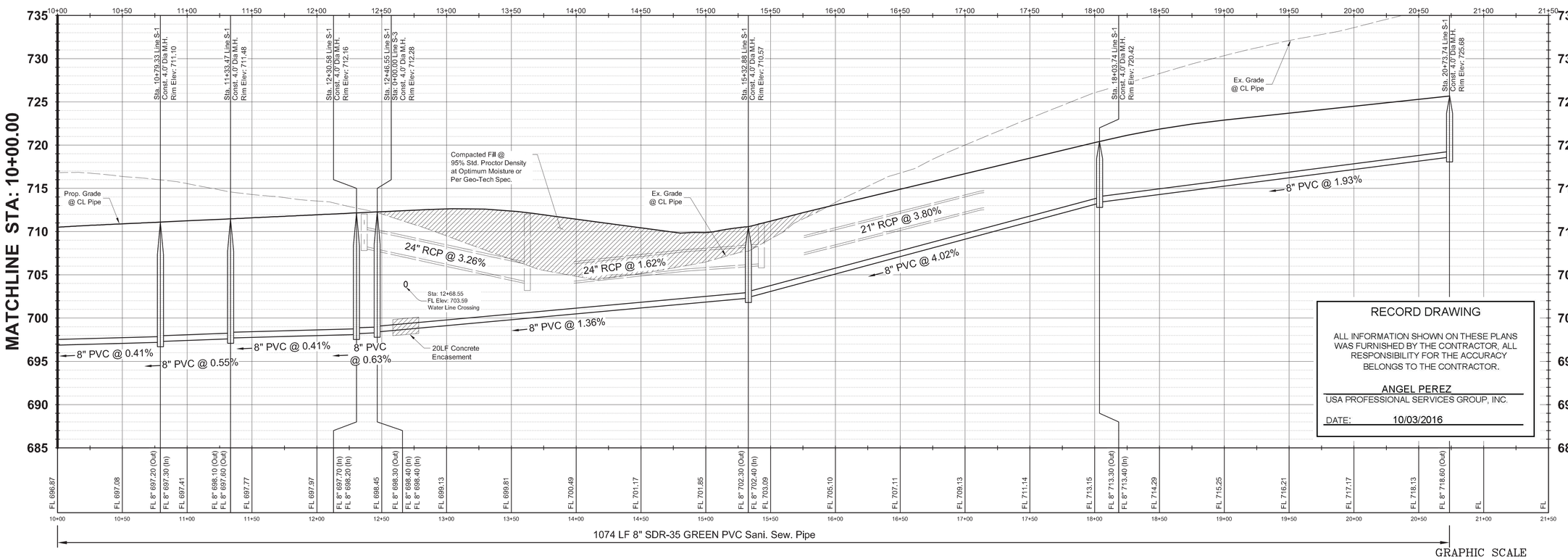
P-201412-01

Profile View of S-1



Profile View of S-1



RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

REV	DESCRIPTION	DATE

THE CARTER RANCH - PHASE IIC, SECTION 2

CITY OF CELINA, COLLIN COUNTY, TEXAS

SANITARY SEWER PROFILES
LINE: S-1

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
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CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H 1" = 6'V
SHEET: 9 OF 42
PROJECT NO. 2009016.03

CITY OF CELINA PLAN NUMBER P-201412-01

P-201412-01

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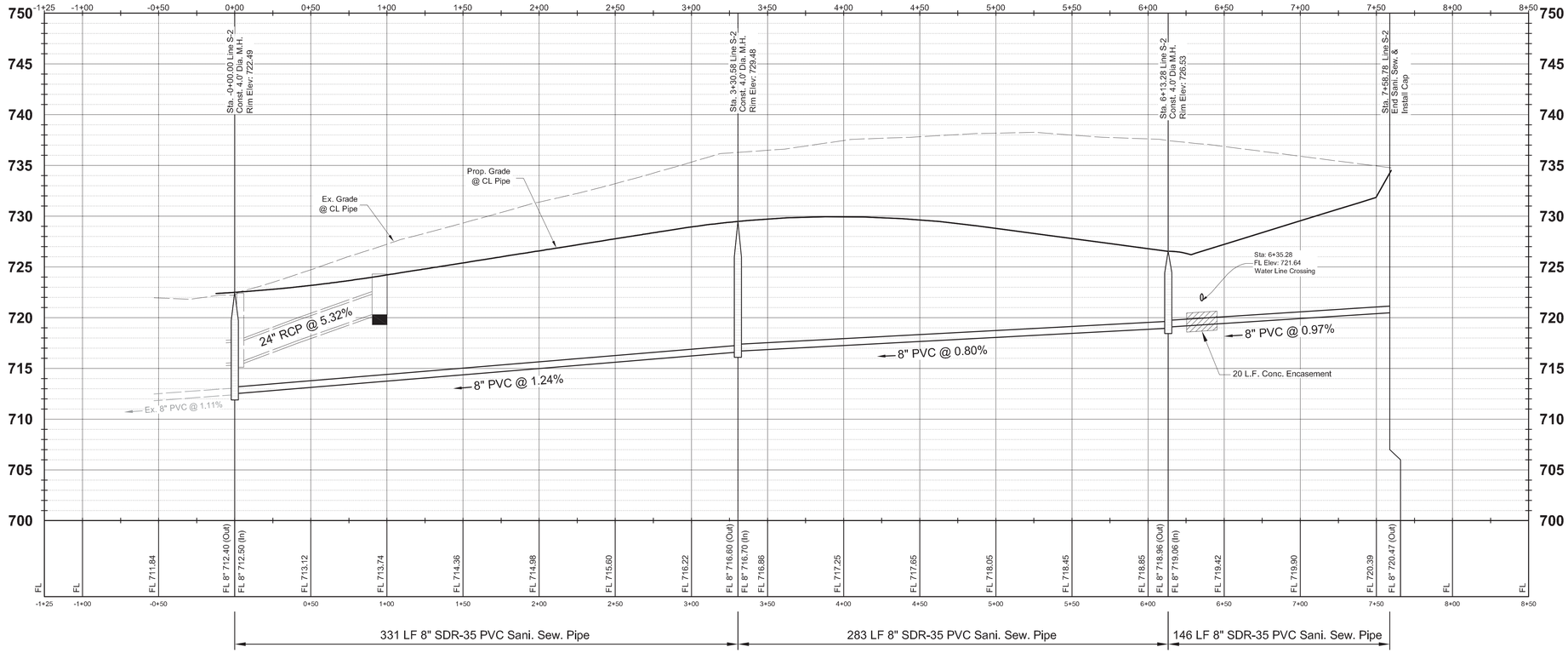
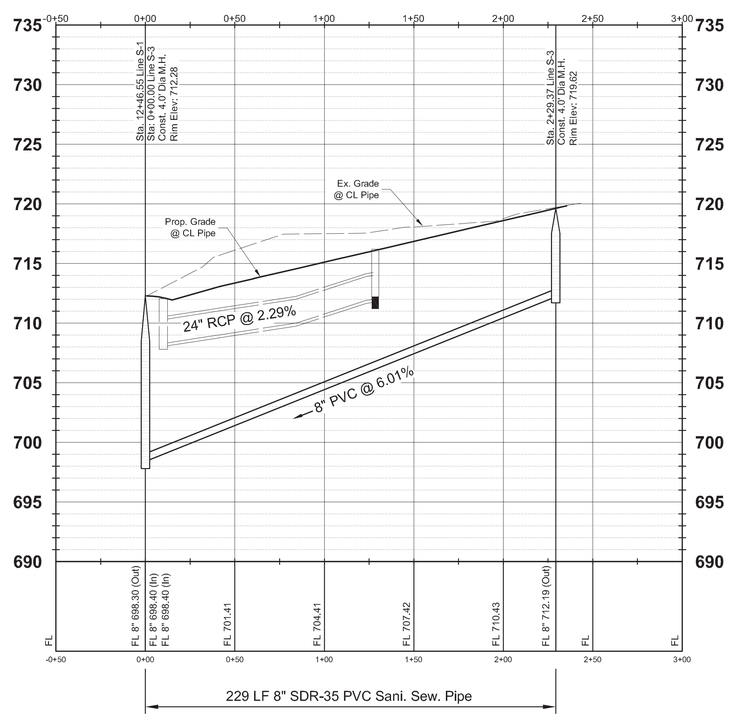
S-2



S-3



RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

SANITARY SEWER PROFILES
LINES: S-2 & S-3

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H 1" = 6'V
SHEET: 10 OF 42
PROJECT NO. 2009016.03

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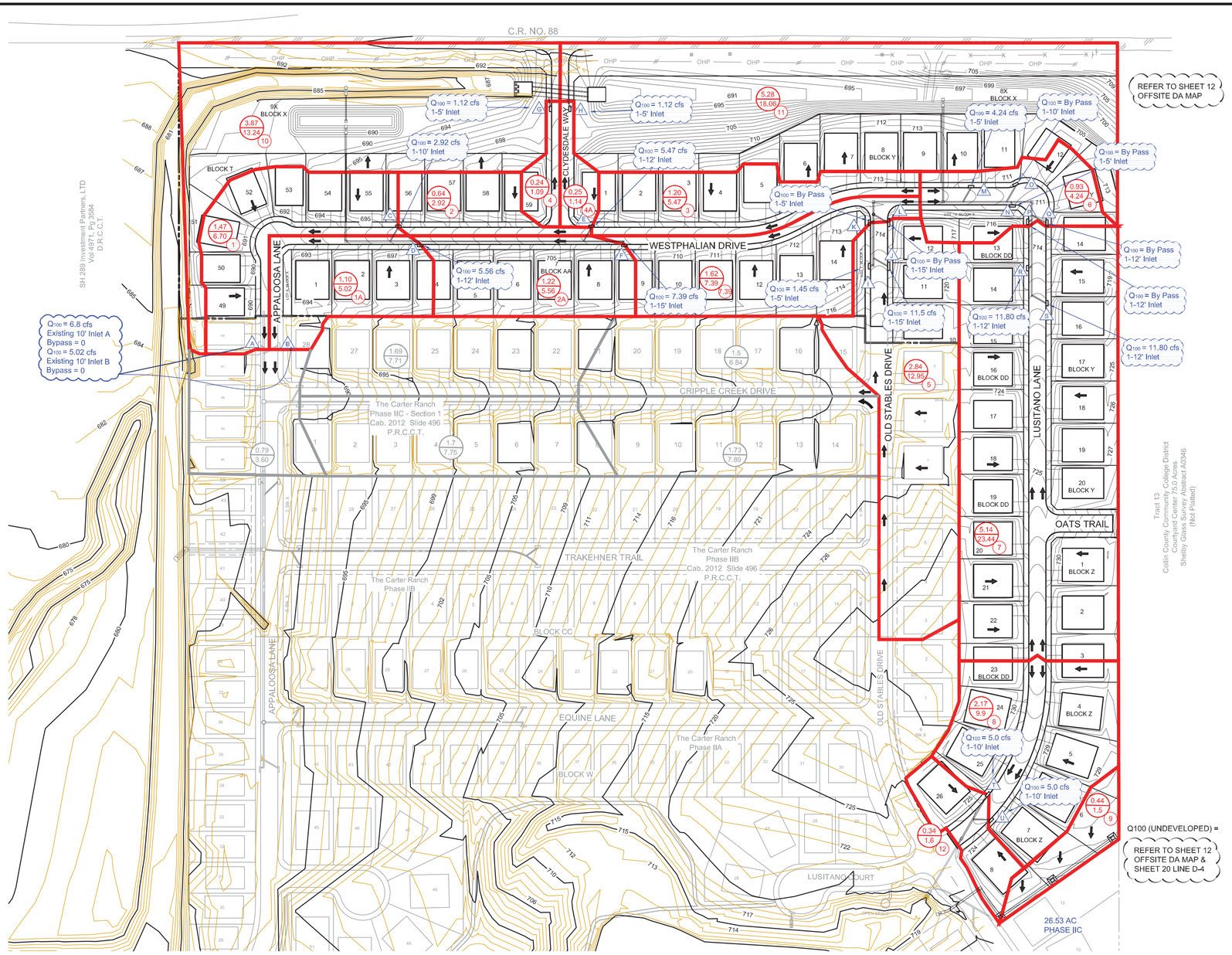
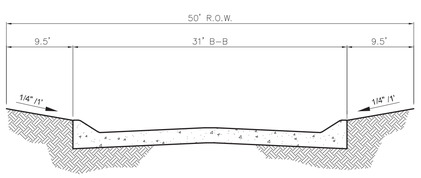
GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.



LEGEND	
SYMBOL	DESCRIPTION
Acres / CFS	ACRES
	Q100 CRITERIA
1	DRAINAGE AREA
←	DIRECTION OF FLOW
A	INLET DESIGNATOR



STREET CAPACITY
(5" PARABOLIC CROWN - 31' B-B PAVEMENT)

A = 6.69 SF
WP = 30.15 FT.
R = 0.22 FT.

$$C = \frac{(1.486)(6.69)(0.22)^{2/3} S^{1/2}}{(0.0175)}$$

C = 207.01 $S^{1/2}$cfs

BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

TBM #2 = "X" Found in concrete at the centerline intersection of Equine Lane and Old Stables Drive located in "The Carter Ranch Phase IIA". Elevation =728.63 feet

CM #5 = Concrete monument with 5/8 inch iron rod with cap stamped "Hulit-Zollars" at the Southeast corner of the intersection of State Highway 289 and County Road 88, located approximately 45' feet South of the centerline of County Road 88 and 112' feet East of the centerline of State Highway 289 Elevation = 681.76 feet

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

SURFACE RUNOFF

NO.	ACRES	POST DEVELOPMENT C	Tc	I 100	Q 100
1	1.47	0.60	15	7.60	6.70
1A	1.10	0.60	15	7.60	5.02
2	0.64	0.60	15	7.60	2.92
2A	1.22	0.60	15	7.60	5.56
3	1.20	0.60	15	7.60	5.47
3A	1.62	0.60	15	7.60	7.39
4	0.24	0.60	15	7.60	1.09
4A	0.25	0.60	15	7.60	1.14
5	2.84	0.60	15	7.60	12.95
6	0.93	0.60	15	7.60	4.24
7	5.14	0.60	15	7.60	23.44
8	2.17	0.60	15	7.60	9.90
9	0.44	0.45	15	7.60	1.50
10	3.87	0.45	15	7.60	13.24
11	5.28	0.45	15	7.60	18.06
12	0.00	0.60	15	7.60	1.55

THE CARTER RANCH PHASE IIC SECTION 1

Draining to Channel Water Shed = 10.25 AC

Existing Condition Runoff:
Q_{100} = C x I_{100} x A
C = 0.45
I_{100} = 7.60 in/hr
A = 10.25 AC
Q_{100} = 35.06 cfs

Developed Condition Runoff:
Q_{100} = C x I_{100} x A
C = 0.60
I_{100} = 7.60 in/hr
A = 10.25 AC
Q_{100} = 46.74 cfs

To be detained = 11.68 cfs detained

THE CARTER RANCH PHASE IIC - SECTION 2

Draining to Channel Water Shed = 13.81 AC

Existing Condition Runoff:
Q_{100} = C x I_{100} x A
C = 0.45
I_{100} = 7.60 in/hr
A = 13.81 AC
Q_{100} = 47.2 cfs

Developed Condition Runoff:
Q_{100} = C x I_{100} x A
C = 0.60
I_{100} = 7.60 in/hr
A = 13.81 AC
Q_{100} = 63cfs without open space

To be detained 63 - 47.2 = 15.8 cfs

Grand Total Detention Necessary
11.7 + 15.8 = 27.5 cfs

Note: Refer To Sheet 13 For Overall Detention Computations

REV	DESCRIPTION	DATE

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

DRAINAGE MAP

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

CITY OF CELINA PLAN NUMBER P-201412-01

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 100'H
SHEET: 11 OF 42
PROJECT NO. 2009016.03

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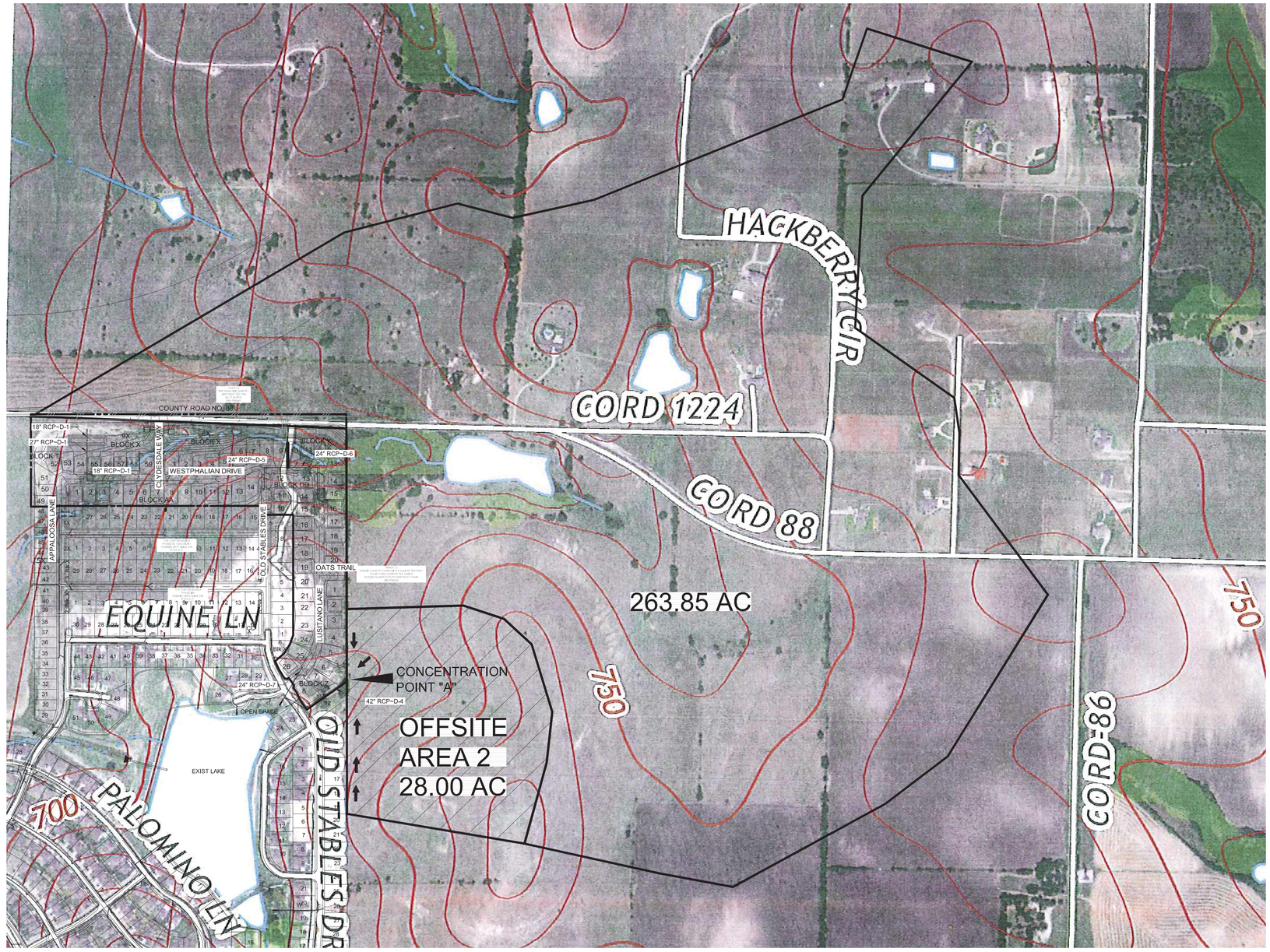
P-201412-01

GRAPHIC SCALE

300 0 150 300 600 1200

(IN FEET)
1 inch = 300 ft.



Drainage Runoff to Concentration Point "A" - Area 2

Existing Condition; (Undeveloped)
C = 0.45
I_{100} = 7.6 in/hr
A = 28 AC
Q = 0.45 x 7.6 x 28 = 95.7 cfs

Note:
When offsite area 2 is developed detention will be required.

BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

TBM #2 = "X" Found in concrete at the centerline intersection of Equine Lane and Old Stables Drive located in "The Carter Ranch Phase IIA". Elevation =728.63 feet

CM #5 = Concrete monument with 5/8 inch iron rod with cap stamped "Huitt-Zollars" at the Southeast corner of the intersection of State Highway 289 and County Road 88, located approximately 45' feet South of the centerline of County Road 88 and 112' feet East of the centerline of State Highway 289 Elevation = 681.76 feet

RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2

CITY OF CELINA, COLLIN COUNTY, TEXAS

OFF-SITE DRAINAGE AREA MAP

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 300'H
SHEET: 12 OF 42
PROJECT NO. 2009016.03

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P-201412-01

Pavement Width (face to face)	30.0
Depth of Crown (inches)	5.0

GUTTER FLOW / INLET COMPUTATIONS

INLET ID	INLET LOCATION	D.A. (No.)	Q (cfs)	CO (cfs)	Qa (cfs)	z	n	s ft/ft	y (ft)	w (ft)	a (ft)	ql (cfs/ft)	Lr (ft)	La (ft)	La/Lr	a/y	Ql (cfs)	Ql-Qa	Carry-over	Remarks
Ex. A	Appoloosa	1	6.30	0.00	6.30	36.000	0.0175	0.0092	0.34	12.2970	0.3300	0.6292	10.01	10.00	1.00	0.97	6.29	-0.01	0.01	Exist. 10' Std. Inlet
Ex.B	Appoloosa	1A	4.90	0.00	4.90	36.000	0.0175	0.0092	0.31	11.1911	0.3300	0.5995	8.17	10.00	1.22	1.06	5.99	1.09	0.00	Exist. 10' Std. Inlet
C	Westphillian	2	3.10	0.00	3.10	36.000	0.0175	0.0256	0.22	7.7799	0.3300	0.5112	6.06	10.00	1.65	1.53	5.11	2.01	0.00	1-10' Std. Inlet
D	Westphillian	2A	5.30	0.00	5.30	36.000	0.0175	0.0256	0.26	9.5130	0.3300	0.5554	9.54	12.00	1.26	1.25	6.66	1.36	0.00	1-12' Std. Inlet
E	Westphillian	3	5.00	0.00	5.00	36.000	0.0175	0.0256	0.26	9.3074	0.3300	0.5501	9.09	12.00	1.32	1.28	6.60	1.60	0.00	1-12' Std. Inlet
F	Westphillian	3A	7.80	0.00	7.80	36.000	0.0175	0.0256	0.31	10.9963	0.3300	0.5943	13.12	15.00	1.14	1.08	8.91	1.11	0.00	1-15' Std. Inlet
G	Clydedayle Way	4	1.00	0.00	1.00	36.000	0.0175	0.0100	0.17	6.0710	0.3300	0.4691	2.13	5.00	2.35	1.96	2.35	1.35	0.00	1-5' Std. Inlet
H	Clydedayle Way	4A	1.00	0.00	1.00	36.000	0.0175	0.0100	0.17	6.0710	0.3300	0.4691	2.13	5.00	2.35	1.96	2.35	1.35	0.00	1-5' Std. Inlet
I,J,K,L	Old Stables Drive	5	12.95	0.00	12.95	36.000	0.0175	0.0349	0.35	12.5481	0.3300	0.6361	20.36	40.00	1.96	0.95	25.44	12.49	0.00	2-5' & 2-15' Std. Inlets
M,N,O	Westphillian Elbow	6	4.30	0.00	4.30	36.000	0.0175	0.0200	0.26	9.2122	0.3300	0.5476	7.85	24.00	3.06	1.29	13.14	8.84	0.00	2-5's & 1-10' Inlet (Sag)
P,Q,R,S	Lusitano Lane	7	23.50	0.00	23.50	36.000	0.0175	0.0360	0.43	15.5992	0.3300	0.7213	32.58	48.00	1.47	0.76	34.62	11.12	0.00	4-12' Std. Inlets
T,U	Lusitano Lane	8	9.90	0.00	9.90	36.000	0.0175	0.0237	0.34	12.1999	0.3300	0.6266	15.80	20.00	1.27	0.97	12.53	2.63	0.00	2-10' Std. Inlets
Surf. Flow	Lusitano Lane	9.00	2.30	2.30	2.30	36.000	0.0175	0.0200	0.20	7.2856	0.3300	0.4989	4.61			1.63			2.30	Surface Flow

Q - Q100 calculated for DA
CO - Carryover from upstream inlet
Qa - Total Q100 at Inlet
z - Reciprocol of cross slope
n - Manning's roughness
s - Gutter slope
y - Gutter depth of flow
w - Width of street conveying flow
a - Depth of depression

ql - Capture per foot of inlet with 100% interception
Lr - Required inlet for 100% interception
La - Actual inlet length
Ql Actual inlet interception

RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

NOTE:
THIS DRY DETENTION BASIN DETAINS Q 100= 25.3 cfs WITH FREEBOARD THEREFORE DETAINS CARTER RANCH IIC SECTION 2 AND 90% OF SECTION 1

Pond Report

6

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2008 by Autodesk, Inc. v6.052 Tuesday, Jun 9, 2015

Pond No. 1 - PROP. DRY DETENTION

Pond Data

Contours - User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 686.20 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (acft)	Total storage (acft)
0.00	686.20	25	0.000	0.000
0.80	687.00	2,839	0.019	0.019
1.80	688.00	4,375	0.082	0.101
2.80	689.00	6,025	0.119	0.220
3.80	690.00	7,776	0.158	0.378
4.80	691.00	9,627	0.199	0.578
5.80	692.00	11,579	0.243	0.821

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 4.00	0.00	0.00	0.00
Span (in)	= 12.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 686.20	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	Inactive	0.00	0.00	0.00
Crest El. (ft)	= 686.20	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= Rect	---	---	---
Multi-Stage	= No	No	No	No

Exfil.(in/hr) = 0.000 (by Wet area)
TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0.000	686.20	0.00	---	---	---	---	---	---	---	---	---	0.000
0.80	0.019	687.00	1.28 ic	---	---	---	---	---	---	---	---	---	1.277
1.80	0.101	688.00	2.05 ic	---	---	---	---	---	---	---	---	---	2.051
2.80	0.220	689.00	2.60 ic	---	---	---	---	---	---	---	---	---	2.605
3.80	0.378	690.00	3.06 ic	---	---	---	---	---	---	---	---	---	3.059
4.80	0.578	691.00	3.45 ic	---	---	---	---	---	---	---	---	---	3.455
5.80	0.821	692.00	3.81 ic	---	---	---	---	---	---	---	---	---	3.809

Hydrograph Summary Report

22

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2008 by Autodesk, Inc. v6.052

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph description
1	Rational	28.64	1	15	0.592	------	------	------	DA HYD. to Prop. Dry Det.
2	Reservoir	3.301	1	28	0.592	1	690.60	0.497	Route Hyd.#1

New.gpw Return Period: 100 Year Tuesday, Jun 9, 2015

Hydrograph Report

23

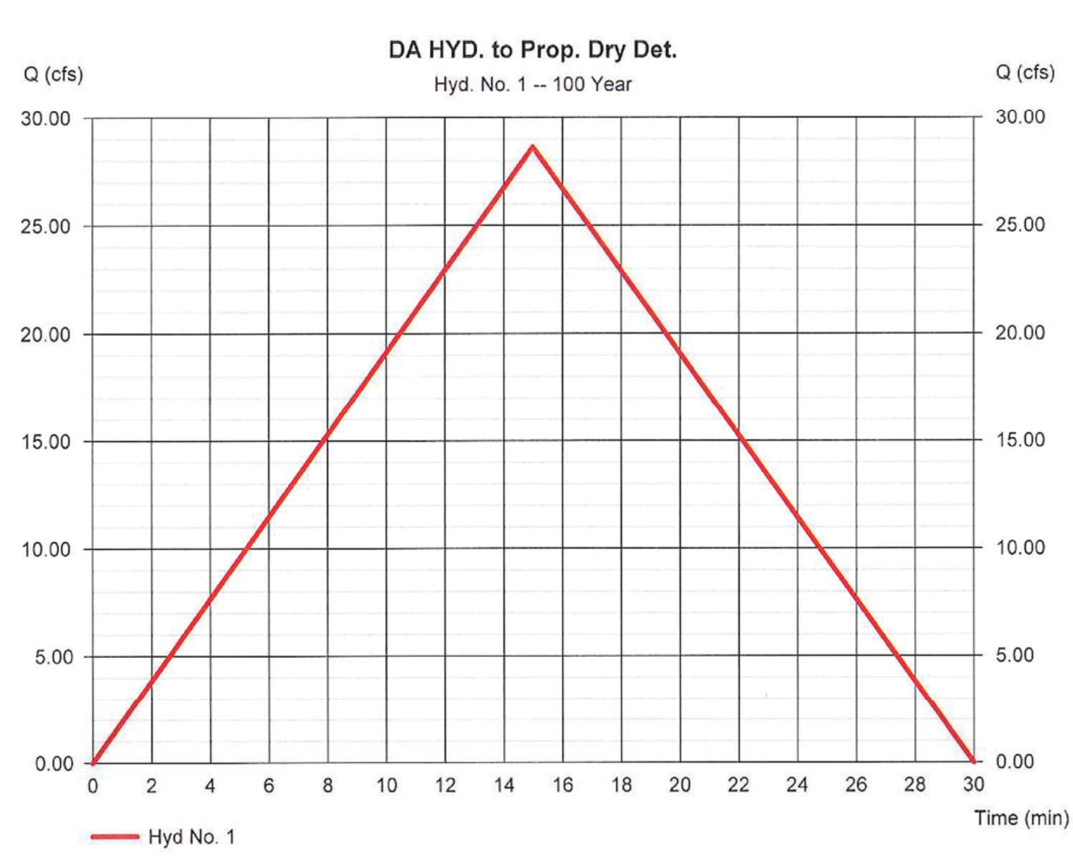
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2008 by Autodesk, Inc. v6.052 Tuesday, Jun 9, 2015

Hyd. No. 1

DA HYD. to Prop. Dry Det.

Hydrograph type	= Rational	Peak discharge	= 28.64 cfs
Storm frequency	= 100 yrs	Time to peak	= 15 min
Time interval	= 1 min	Hyd. volume	= 0.592 acft
Drainage area	= 6.750 ac	Runoff coeff.	= 0.54*
Intensity	= 7.858 in/hr	Tc by User	= 15.00 min
IDF Curve	= Collin County.IDF	Asc/Rec limb fact	= 1/1

* Composite (Area/C) = [(4.680 x 0.60) + (2.070 x 0.40)] / 6.750



Hydrograph Report

24

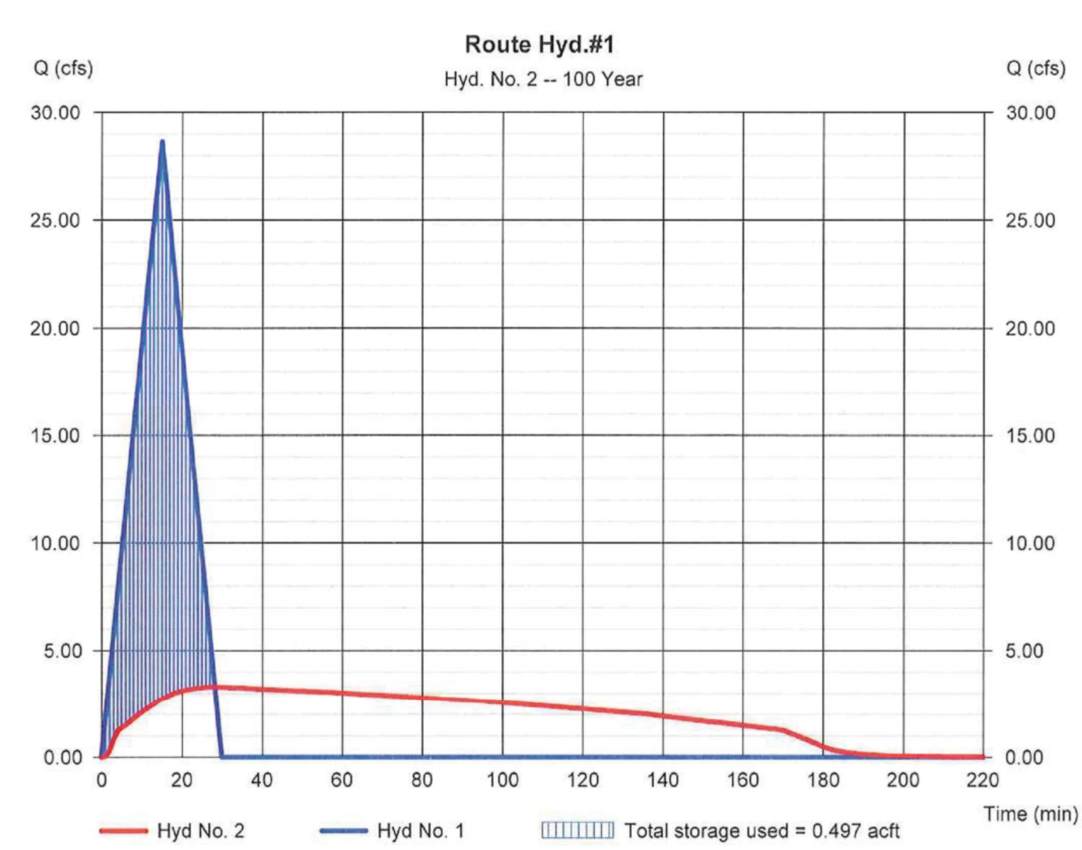
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2008 by Autodesk, Inc. v6.052 Tuesday, Jun 9, 2015

Hyd. No. 2

Route Hyd.#1

Hydrograph type	= Reservoir	Peak discharge	= 3.301 cfs
Storm frequency	= 100 yrs	Time to peak	= 28 min
Time interval	= 1 min	Hyd. volume	= 0.592 acft
Inflow hyd. No.	= 1 - DA HYD. to Prop. Dry Det.	Max. Elevation	= 690.60 ft
Reservoir name	= PROP. DRY DETENTION	Max. Storage	= 0.497 acft

Storage Indication method used.



Hydraflow Rainfall Report

25

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2008 by Autodesk, Inc. v6.052 Tuesday, Jun 9, 2015

Return Period (Yrs)	Intensity-Duration-Frequency Equation Coefficients (FHA)			
	B	D	E	(N/A)
1	48.8588	9.3000	0.8348	--------
2	49.8202	8.9000	0.7953	--------
3	0.0000	0.0000	0.0000	--------
5	66.0031	11.2000	0.7953	--------
10	66.2078	10.7000	0.7648	--------
25	73.2308	10.7000	0.7503	--------
50	78.6118	10.7000	0.7396	--------
100	87.3025	11.1000	0.7382	--------

File name: Collin County.IDF

Intensity = B / (Tc + D)^E

Return Period (Yrs)	Intensity Values (in/hr)											
	5 min	10	15	20	25	30	35	40	45	50	55	60
1	5.30	4.13	3.41	2.91	2.55	2.28	2.06	1.89	1.74	1.62	1.51	1.42
2	6.14	4.81	3.99	3.43	3.02	2.71	2.46	2.26	2.09	1.95	1.83	1.72
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	7.21	5.82	4.92	4.28	3.80	3.43	3.13	2.89	2.68	2.50	2.35	2.22
10	8.06	6.52	5.53	4.83	4.30	3.89	3.56	3.29	3.06	2.87	2.70	2.55
25	9.28	7.54	6.41	5.61	5.01	4.54	4.16	3.85	3.59	3.36	3.17	3.00
50	10.26	8.36	7.12	6.25	5.59	5.07	4.65	4.31	4.02	3.77	3.56	3.37
100	11.22	9.19	7.86	6.90	6.18	5.62	5.16	4.79	4.47	4.19	3.96	3.75

Tc = time in minutes. Values may exceed 60.

Precip. file name: IDF.pcp

Storm Distribution	Rainfall Precipitation Table (in)							
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
SCS 24-hour	2.64	3.36	0.00	4.56	5.52	6.72	7.92	9.12
SCS 6-Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-1st	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-2nd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-3rd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-4th	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-Indy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Custom	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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DATE	DESCRIPTION	REV

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2

CITY OF CELINA, COLLIN COUNTY, TEXAS

INLET & GUTTER COMPUTATIONS

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE:
SHEET: 13 OF 42
PROJECT NO. 2009016.03

DRAINAGE CALCULATIONS

DESIGN POINT DOWNSTREAM FROM STATION	DESIGN POINT UPSTREAM TO STATION	DIST (FT)	DRAINAGE AREA INCREMENTAL INLET / LINE DESIGNATOR	AREA (AC)	TOTAL AREA (AC)	RUNOFF FLOW (CFS)	FROM UPSTREAM INLET (cfs)	INLET BYPASS (CFS)	FLOW IN PIPE (cfs)	PIPE FLOW CAPACITY (cfs)	PIPE SIZE	PIPE TYPE	FRICTIONAL SLOPE "S_f" (FT/FT)	HYDRAULIC GRADIENT ELEVATIONS DOWNSTREAM (FT)	UPSTREAM (FT)	HEAD LOSS AT CHANGE IN SECTION FLOW IN "V1" (FPS)	FLOW OUT "V2" (FPS)	$V_2^2/2G$ (FT)	$V_1^2/2G$ (FT)	"K_2"	$K_2V_2^2/2$ (FT)	HEAD LOSS "H_L" (FEET)	ELEV OF INVERT AT DESIGN POINT PIPE DOWNSTREAM (FT)	UPSTREAM (FT)	PIPE SLOPE (FT/FT)	COMMENTS
D-1																										
788.40	794.75	6.35	Inlet F	1.62	1.62	7.39	0.00	0.00	7.39	17.30	18	RCP	0.0049	703.51	703.58	0.00	4.18	0.27	0.00	0.25	0.00	0.00	702.01	702.18	0.0270	PARTIAL FLOW
720.83	788.40	67.57	-	0.00	1.62	0.00	0.00	0.00	7.39	17.30	18	RCP	0.0049	701.62	703.51	4.18	4.18	0.27	0.27	0.00	0.00	0.00	700.20	702.01	0.0270	FULL FLOW
717.83	720.83	3.00	-	0.00	1.62	0.00	0.00	0.00	7.39	17.30	18	RCP	0.0049	693.61	693.75	4.18	4.18	0.27	0.27	0.00	0.00	0.00	700.12	700.20	0.0270	PARTIAL FLOW
424.97	717.83	292.86	D-1.3	1.20	2.82	5.00	0.00	0.00	12.39	17.30	18	RCP	0.0138	692.37	693.61	4.18	7.01	0.76	0.27	0.00	0.00	0.00	692.25	700.12	0.0270	PARTIAL FLOW
419.39	424.97	5.57	-	0.00	2.82	0.00	0.00	0.00	12.39	25.11	21	RCP	0.0061	690.46	692.37	7.01	5.15	0.41	0.76	0.00	0.00	0.00	691.86	692.00	0.0250	PARTIAL FLOW
368.04	419.39	51.35	D-1.2	5.30	8.12	5.30	0.00	0.00	17.69	24.60	21	RCP	0.0124	691.17	690.46	5.15	7.36	0.84	0.41	0.00	0.00	0.00	690.62	691.86	0.0240	PARTIAL FLOW
287.94	368.04	80.10	D-1.1	1.47	9.59	3.10	0.00	0.00	20.79	24.60	21	RCP	0.0171	690.25	691.17	7.36	8.65	1.16	0.84	0.00	0.00	0.00	688.71	690.62	0.0240	PARTIAL FLOW
83.00	287.94	204.94	-	0.00	9.59	0.00	0.00	0.00	20.79	17.00	27	RCP	0.0045	689.31	690.25	8.65	5.23	0.42	1.16	0.00	0.00	0.00	688.00	688.71	0.0030	PARTIAL FLOW
70.50	13.00	57.50	-	0.00	9.59	0.00	0.00	0.00	5.00	11.53	18	RCP	0.0023	689.26	689.31	5.23	2.83	0.12	0.42	0.00	0.00	0.00	684.71	684.00	0.0120	FULL FLOW
D-1.1																										
0.00	29.45	29.45	Inlet C	1.47	1.47	3.10	0.00	0.00	3.10	19.12	18	RCP	0.0009	692.37	693.21	0.00	1.76	0.05	0.00	0.25	0.00	0.00	690.75	691.71	0.0330	FULL FLOW
D-1.2																										
0.00	6.35	6.35	Inlet D	5.30	5.30	5.30	0.00	0.00	5.30	36.16	18	RCP	0.0025	693.61	694.23	0.00	3.00	0.00	0.00	0.25	0.00	0.00	691.98	692.73	0.1180	FULL FLOW
D-1.3																										
0.00	29.45	29.45	Inlet E	1.20	1.20	5.00	0.00	0.00	5.00	14.51	18	RCP	0.0023	701.62	702.17	0.00	2.83	0.12	0.00	0.25	0.00	0.12	700.12	700.67	0.0190	FULL FLOW
D-2																										
40.28	88.21	47.93	Inlet T	2.17	2.17	9.90	0.00	0.00	9.90	52.19	24	RCP	0.0019	719.75	722.30	0.00	3.15	0.00	0.00	0.25	0.00	0.00	717.75	720.30	0.0530	FULL FLOW
0.00	40.28	40.28	D-2.1	2.17	4.34	8.98	0.00	0.77	18.11	52.19	24	RCP	0.0064	717.61	719.75	3.15	5.77	0.00	0.15	0.00	0.00	0.00	715.61	717.75	0.0530	PARTIAL FLOW
D-2.1																										
0.00	31.54	31.54	Inlet U	2.17	2.17	9.90	0.00	0.00	9.90	23.54	18	RCP	0.0088	717.61	717.89	0.00	5.61	0.49	0.00	0.25	0.00	0.49	718.00	719.59	0.0500	PARTIAL FLOW
D-3																										
0.00	100.50	100.50	D-3.1 & D-3.2	0.49	0.49	2.00	0.00	0.00	2.00	0.32	7 x 4	RCB	0.0000	694.57	695.09	0.00	0.07	0.00	0.00	0.25	0.00	0.00	689.83	690.24	0.0279	FULL FLOW
D-3.1																										
0.00	18.89	18.89	Inlet G	0.24	0.24	1.00	0.00	0.00	1.00	38.90	21	RCP	0.0000	694.73	695.42	0.00	0.42	0.00	0.00	0.25	0.00	0.00	692.58	693.71	0.0600	PARTIAL FLOW
D-3.2																										
0.00	15.50	15.50	Inlet H	0.25	0.25	1.00	0.00	0.00	1.00	40.17	21	RCP	0.0000	694.91	695.43	0.00	0.42	0.00	0.00	0.25	0.00	0.00	692.73	693.72	0.0640	PARTIAL FLOW
D-4																										
266.45	399.53	133.08	-	0.44	0.44	0.00	0.00	0.00	0.00	127.54	42	RCP	0.0000	721.41	721.41	0.00	0.00	0.00	0.00	0.25	0.00	0.00	717.91	720.00	0.0160	PARTIAL FLOW
151.35	266.45	115.10	-	0.00	0.44	0.00	0.00	0.00	0.00	127.54	42	RCP	0.0000	719.62	719.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	716.12	717.91	0.0160	PARTIAL FLOW
87.91	151.35	63.44	-	0.00	0.44	0.00	0.00	0.00	0.00	127.54	42	RCP	0.0000	718.63	718.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	715.13	716.12	0.0160	PARTIAL FLOW
49.12	87.91	38.79	-	0.00	0.44	0.00	0.00	0.00	0.00	127.54	42	RCP	0.0000	718.02	718.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	714.52	715.13	0.0160	PARTIAL FLOW
18.95	49.12	30.16	-	0.00	0.44	0.00	0.00	0.00	0.00	127.54	42	RCP	0.0000	717.55	717.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	714.05	714.52	0.0160	PARTIAL FLOW
0.00	18.95	18.95	-	0.00	0.44	0.00	0.00	0.00	0.00	63.77	42	RCP	0.0000	717.25	717.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	713.75	714.05	0.0040	FULL FLOW
D-5																										
239.14	245.49	6.35	Inlet I	2.84	2.84	12.95	1.45	0.00	1.45	49.67	24	RCP	0.0000	713.89	714.20	0.00	0.46	0.00	0.00	0.25	0.00	0.00	711.89	712.20	0.0480	PARTIAL FLOW
227.60	239.14	11.55	-	0.00	2.84	0.00	0.00	0.00	1.45	49.67	24	RCP	0.0000	713.34	713.89	0.46	0.46	0.00	0.00	0.00	0.00	0.00	711.34	711.89	0.0480	PARTIAL FLOW
200.04	227.60	27.56	D-5.3	0.00	2.84	12.95	11.50	0.00	12.95	49.67	24	RCP	0.0033	712.00	713.33	0.46	4.12	0.26	0.00	0.00	0.00	0.00	710.00	711.34	0.0480	PARTIAL FLOW
160.46	200.04	39.58	-	0.00	2.84	0.00	0.00	0.00	12.95	34.38	24	RCP	0.0033	711.09	712.00	4.12	4.12	0.26	0.26	0.00	0.00	0.00	709.09	710.00	0.0230	PARTIAL FLOW
147.10	160.46	13.36	D-5.2	0.00	2.84	0.00	0.00	0.00	12.95	34.38	24	RCP	0.0033	710.79	711.09	4.12	4.12	0.26	0.26	0.00	0.00	0.00	708.79	709.09	0.0230	PARTIAL FLOW
125.82	147.10	21.28	D-5.1	0.00	2.84	0.00	0.00	0.00	12.95	34.38	24	RCP	0.0033	710.30	710.79	4.12	4.12	0.26	0.26	0.00	0.00	0.00	708.30	708.79	0.0230	PARTIAL FLOW
0.00	125.82	125.82	-	0.00	2.84	12.95	0.00	0.00	12.95	41.18	24	RCP	0.0033	605.94	710.30	4.12	4.12	0.26	0.26	0.00	0.00	0.00	703.69	708.30	0.0330	PARTIAL FLOW
D-5.1																										
0.00	29.45	29.45	Inlet L	2.84	2.84	12.95	0.00	0.00	12.95	20.09	21	RCP	0.0066	710.79	711.14	0.00	5.39	0.00	0.00	0.25	0.00	0.00	708.92	709.39	0.0160	PARTIAL FLOW
D-5.2																										
0.00	6.35	6.35	Inlet K	2.84	2.84	12.95	0.00	0.00	12.95	14.12	18	RCP	0.0151	711.09	710.96	0.00	7.33	0.00	0.00	0.25	0.00	0.00	709.34	709.46	0.0180	FULL FLOW
D-5.3																										
0.00	29.45	29.45	Inlet J	2.84	2.84	12.95	0.00	0.00	12.95	25.11	21	RCP	0.0066	713.33	713.95	0.00	5.39	0.00	0.00	0.25	0.00	0.00	711.46	712.20	0.0250	PARTIAL FLOW
D-6																										
511.90	541.30	29.40	Inlet S	5.14	5.14	23.44	0.00	3.20	8.60	0.00	21	RCP	0.0029	714.46	715.56	0.00	3.58	0.20	0.00	0.25	0.00	0.00	712.71	713.81	0.0375	PARTIAL FLOW
460.03	511.90	51.87	D-6.6	0.00	5.14	23.44	0.00	0.00	8.60	0.00	21	RCP	0.0029	712.49	714.46	3.58	3.58	0.20	0.20	0.00	0.00	0.00	710.74	712.71	0.0380	PARTIAL FLOW
375.96	460.03	81.08	D-6.5	0.00	5.14	23.44	0.00	3.20	17.20	0.00	21	RCP	0.0117	709.30	712.49	3.58	7.15	0.79	0.20	0.00	0.00	0.00	707.55	710.62	0.0380	PARTIAL FLOW
366.83	375.96	9.12	D-6.4	0.00	5.14	23.44	3.20	0.00	20.40	0.00	21	RCP	0.0165	708.95	709.30	7.15	8.49	1.12	0.79	0.00	0.00	0.00	707.20	707.55	0.0380	PARTIAL FLOW
343.06	366.83	23.77	-	0.00	5.14	23.44	3.20	0.00	23.60	0.00	21	RCP	0.0221	708.30	708.95	8.49	9.82	1.50	1.12	0.00	0.00	0.00	706.30	707.20	0.0380	PARTIAL FLOW
304.89	343.06	38.18	D-6.3	0.93	5.14	27.68	1.00	0.00	24.60	0.00	24	RCP	0.0118	707.68	708.30	9.82	7.83	0.95	1.50	0.00	0.00	0.00	705.68	706.30	0.0162	PARTIAL FLOW
297.39	304.89	7.50	D-6.2	0.00	6.07	27.68	2.30	0.00	26.90	0.00	24	RCP	0.0141	707.56	707.68	7.83	8.57	1.14	0.95	0.00	0.00	0.00	705.56	705.68	0.0162	PARTIAL FLOW
218.46	297.39	78.93	D-6.1	0.00	6.07	27.68	1.00	0.00	27.90	0.00	24	RCP	0.0151	706.28	707.56	8.57	8.89	1.23	1.14	0.00	0.00	0.00	704.28	705.56	0.0162	PARTIAL FLOW
182.55	218.46	35.90	-	0.00	6.07	27.68	0.00	0.00	27.90	0.00	24	RCP	0.0151	705.94	706.28	8.89	8.89	1.23	1.23	0.00	0.00	0.00	703.69	704.28	0.0162	PARTIAL FLOW
50.00	182.55	132.55	-	0.00	6.07	40.60	0.00	0.00	40.90	0.00	27	RCP	0.0174	701.55	705.94	8.89	10.29	1.64	1.23	0.00	0.00	0.00	697.80	703.69	0.0445	PARTIAL FLOW
0.00	50.00	50.00	-	2.84	8.91	40.60	13.00	0.00	40.90	0.00	30	RCP	0.0099	701.00	701.55	10.29	8.34	1.08	1.64	0.00	0.00	0.00	697.00	697.55	0.0209	FULL FLOW
D-6.1																										
0.00	29.45	29.45	Inlet M	0.93	0.93	1.00	0.00	0.00	1.00	32.62	18	RCP	0.0001	706.28	708.85	0.00	0.57	0.00	0.00	0.25	0.00	0.00	704.53	707.35	0.0960	PARTIAL FLOW
D-6.2																										
0.00	34.28	34.28	Inlet O	0.93	0.93	2.30	0.00	0.00	2.30	13.29	21	RCP	0.0002	707.56	707.60	0.00	0.96	0.01	0.00	0.25	0.00	0.01	705.69	705.94	0.0070	PARTIAL FLOW
D-6.3																										
0.00	6.35	6.35	Inlet N	0.93	0.93	1.00	0.00	0.00	1.00	45.47	21	RCP	0.0000	707.68	708.08	0.00	0.42	0.00	0.00	0.25	0.00	0.00	705.81	706.33	0.0820	PARTIAL FLOW
D-6.4																										
0.00	29.40	29.40	Inlet Q	5.14	5.14	23.50	3.20	0.00	3.20	20.79	18	RCP	0.0009	708.95	710.09	0.00	1.81	0.00	0.00	0.25	0.00	0.00	707.45	708.59	0.0390	PARTIAL FLOW
D-6.5																										
0.00	6.32	6.32	Inlet P	5.14	5.14	23.50	3.20	0.00	3.20	34.75	18	RCP	0.0009	709.30	709.99	0.00	1.81	0.00	0.00	0.25	0.00	0.00	707.80	708.49	0.1090	PARTIAL FLOW
D-6.6																										
0.00	6.32	6.32	Inlet R	5.14	5.14	23.50	8.60	0.00	8.60	30.69	18	RCP	0.0067	712.49	713.03	0.00	4.87	0.00	0.00	0.25	0.00	0.00	710.87	711.53	0.0850	PARTIAL FLOW

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

TBM #2 = "X" Found in concrete at the centerline intersection of Equine Lane and Old Stables Drive located in "The Carter Ranch Phase IIA". Elevation =728.63 feet

CM #5 = Concrete monument with 5/8 inch iron rod with cap stamped "Huitt-Zollars" at the Southeast corner of the intersection of State Highway 289 and County Road 88, located approximately 45' feet South of the centerline of County Road 88 and 112' feet East of the centerline of State Highway 289 Elevation = 681.76 feet

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REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

STORM SEWER COMPUTATIONS

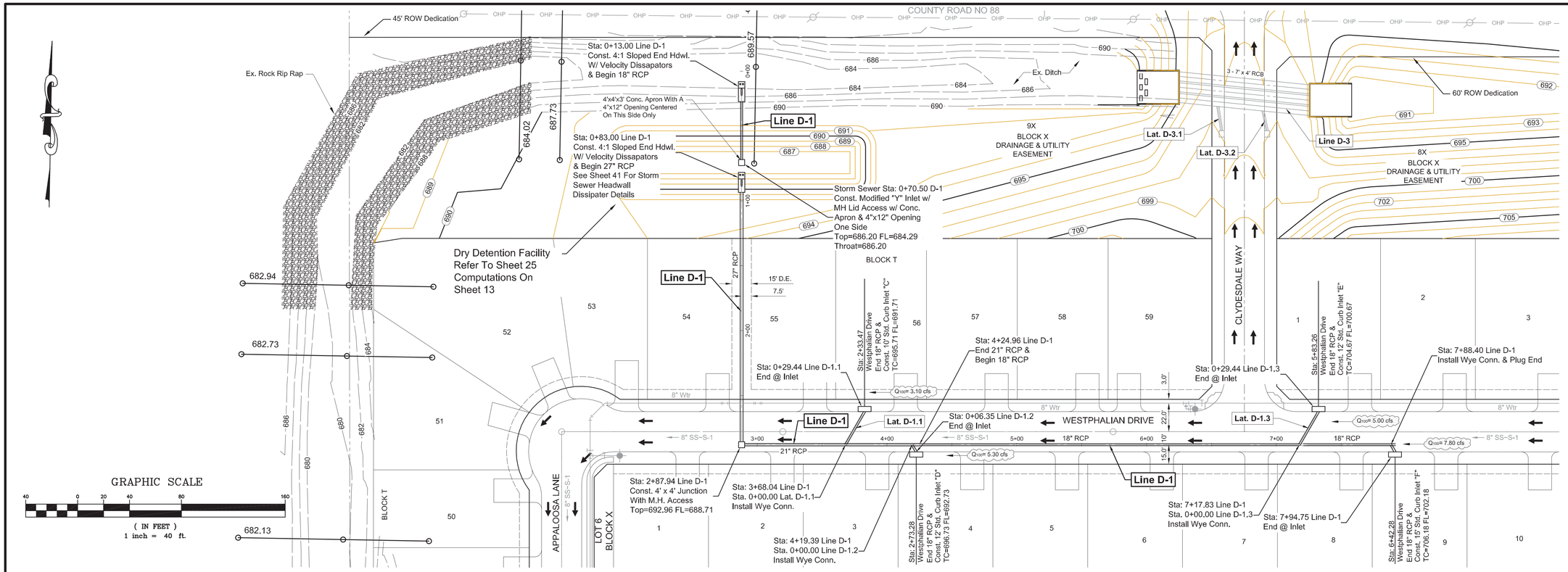
CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

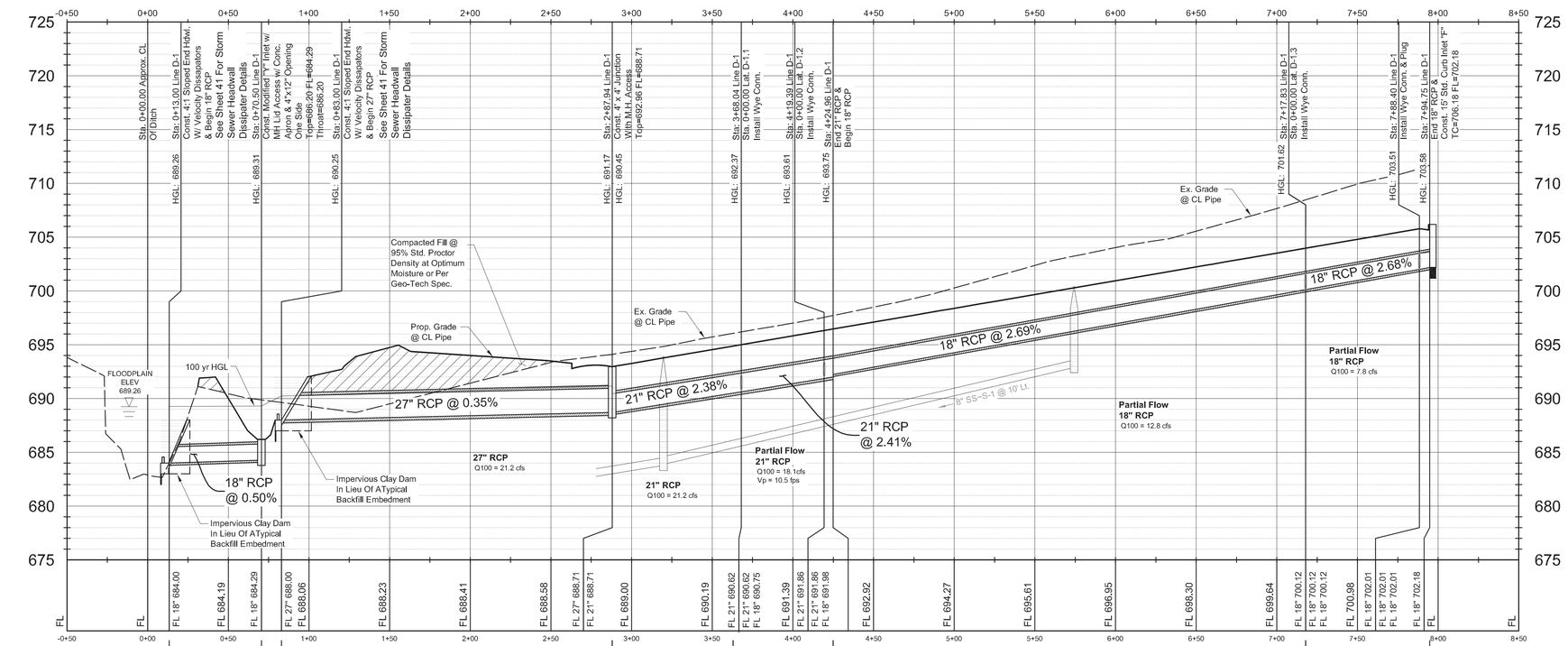
USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE:
SHEET: 14 OF 42
PROJECT NO. 2009016.03

P-201412-01



Profile View of D-1



Notes:
See Sheet 2 For General Notes
See Sheets 40 & 41 For Storm Sewer Details

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

TBM #2 = "X" Found in concrete at the centerline intersection of Equine Lane and Old Stables Drive located in "The Carter Ranch Phase IIA". Elevation =728.63 feet

CM #5 = Concrete monument with 5/8 inch iron rod with cap stamped "Huitt-Zollars" at the Southeast corner of the intersection of State Highway 289 and County Road 88, located approximately 45' feet South of the centerline of County Road 88 and 112' feet East of the centerline of State Highway 289 Elevation = 681.76 feet

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

STORM SEWER PLAN & PROFILE
LINE D-1

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1945
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H/6"V
SHEET: 15 OF 42
PROJECT NO. 2009016.03

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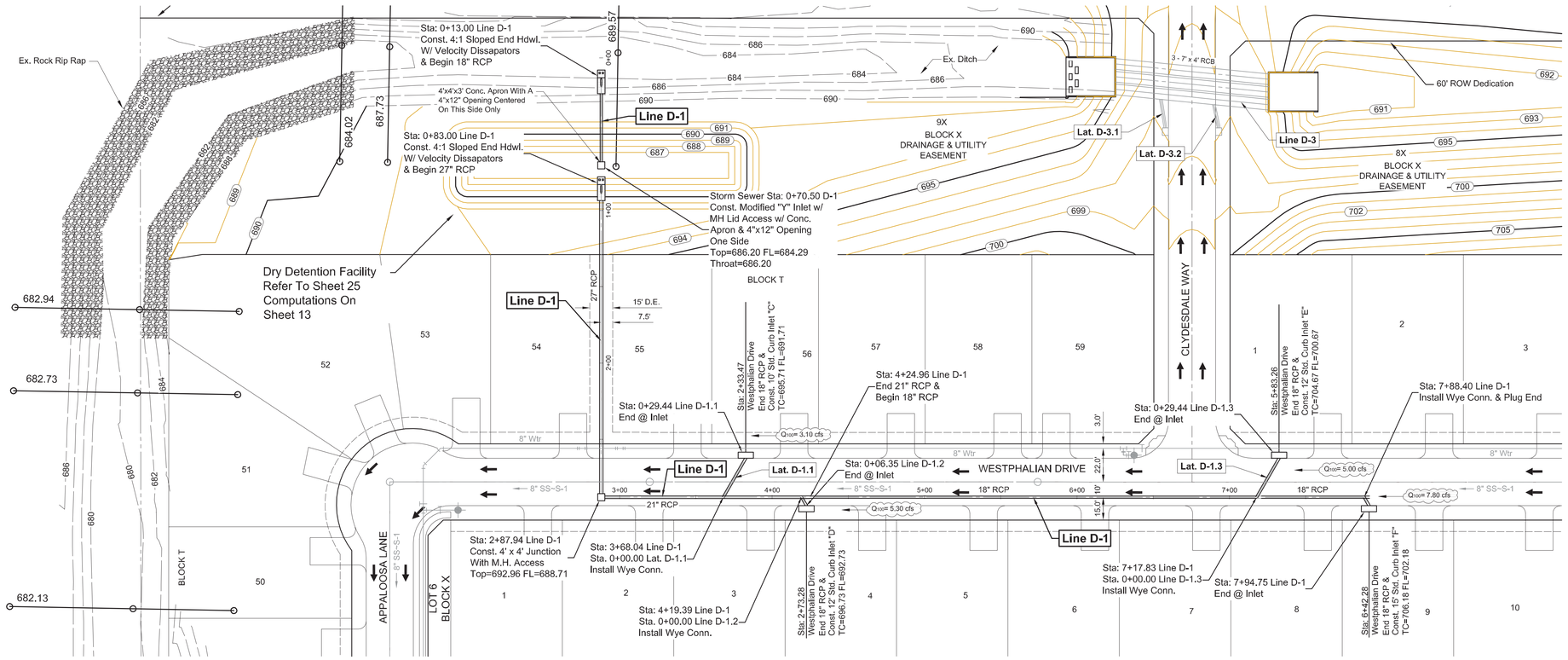
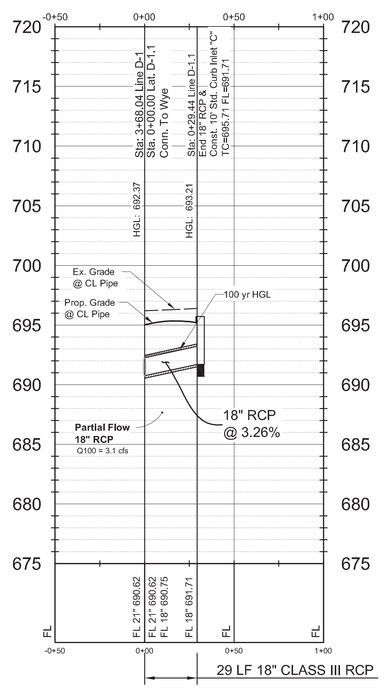
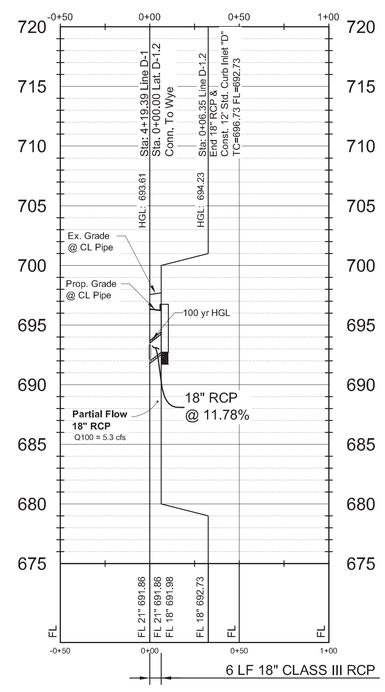
P-201412-01



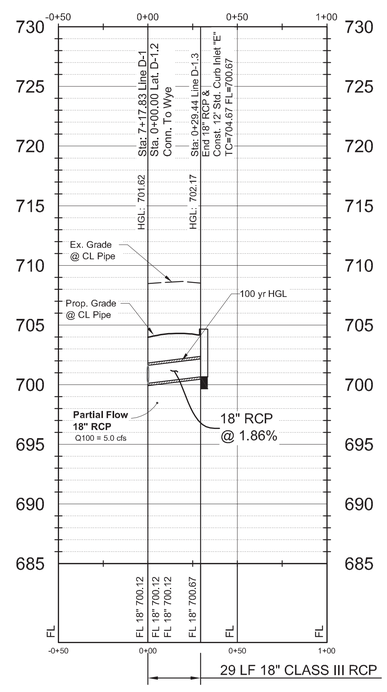
Profile View of D-1.1



Profile View of D-1.2



Profile View of D-1.3



GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

TBM #2 = "X" Found in concrete at the centerline intersection of Equine Lane and Old Stables Drive located in "The Carter Ranch Phase IIA". Elevation =728.63 feet

CM #5 = Concrete monument with 5/8 inch iron rod with cap stamped "Huitt-Zollars" at the Southeast corner of the intersection of State Highway 289 and County Road 88, located approximately 45' feet South of the centerline of County Road 88 and 112' feet East of the centerline of State Highway 289 Elevation = 681.76 feet

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR. ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

Notes:
See Sheet 2 For General Notes
See Sheets 40 & 41 For Storm Sewer Details

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

STORM SEWER PLAN & PROFILE
LAT D-1.1 LAT D-1.2 & LAT D-1.3

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53904
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1945
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H/6"V
SHEET: 16 OF 42
PROJECT NO. 2009016.03

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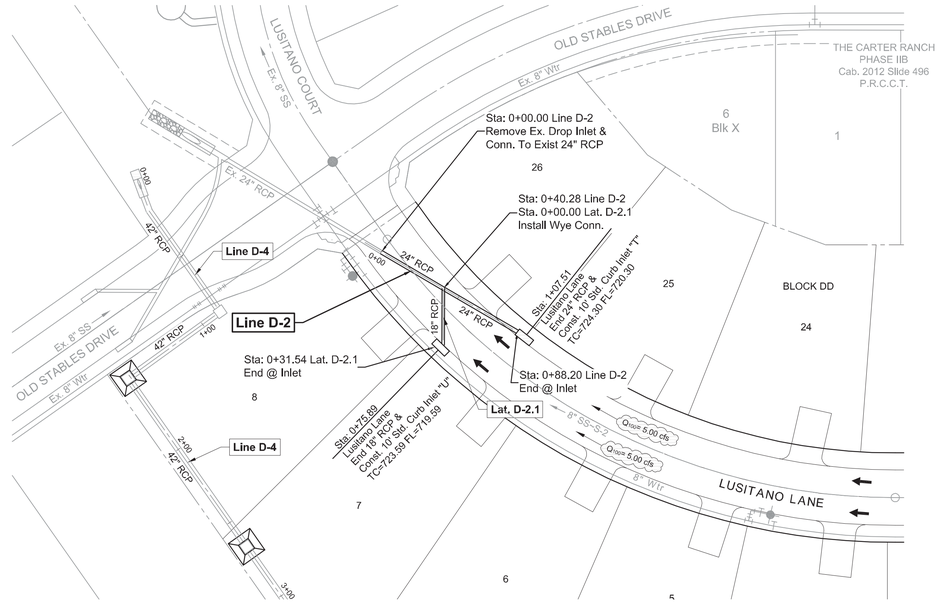
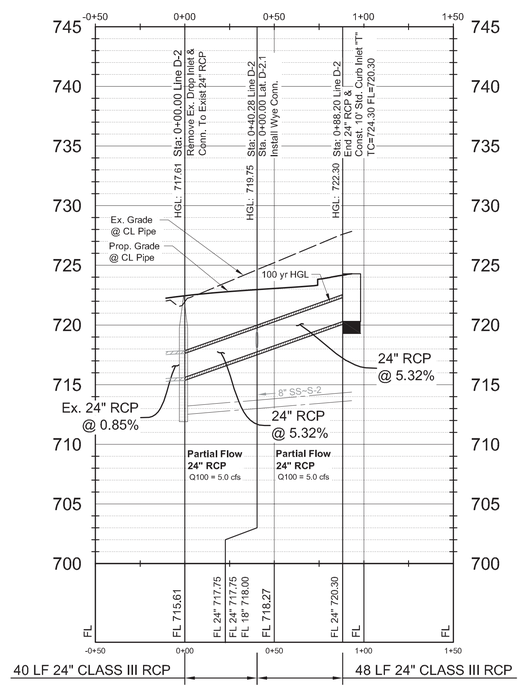
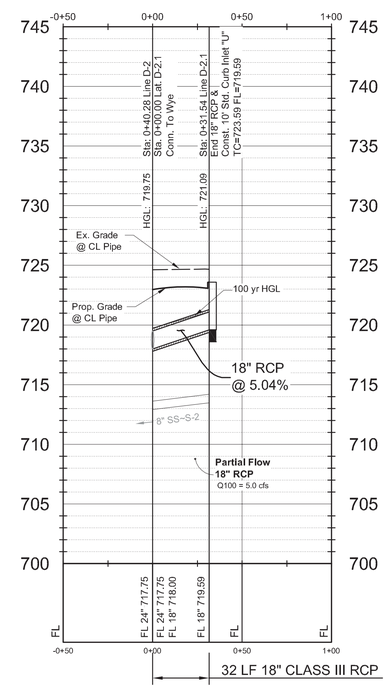
P-201412-01



Profile View of D-2



Profile View of D-2.1



BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

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GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

Notes:
See Sheet 2 For General Notes
See Sheets 40 & 41 For Storm Sewer Details

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

STORM SEWER PLAN & PROFILE
LINE D-2 & LAT D-2.1

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H/6"V
SHEET: 17 OF 42
PROJECT NO. 2009016.03

P-201412-01

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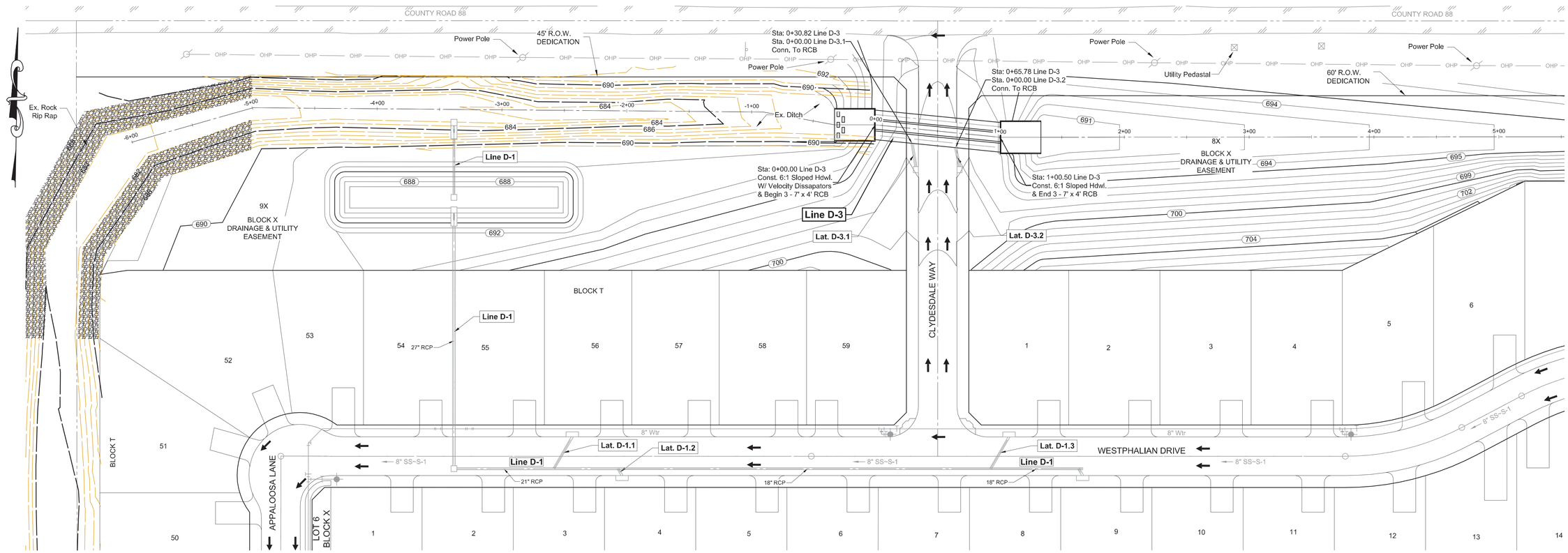
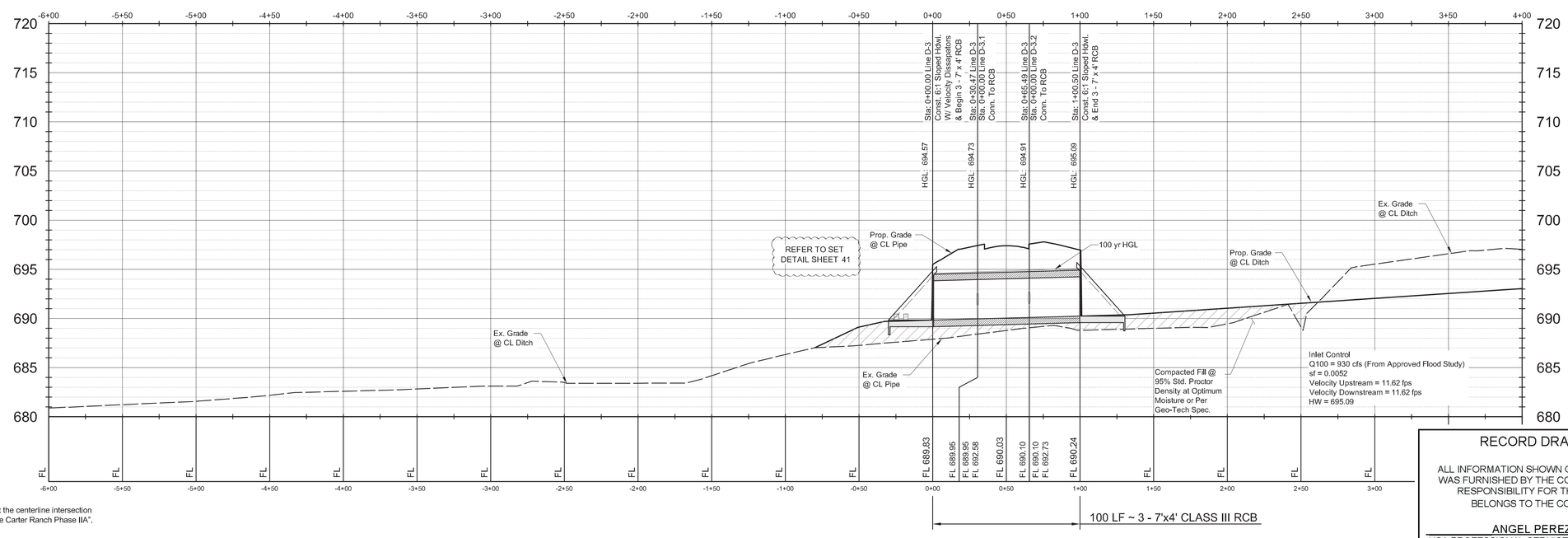


Profile View of D-3



BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

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GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

Notes:
See Sheet 2 For General Notes
See Sheets 40 & 41 For Storm Sewer Details

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

STORM SEWER PLAN & PROFILE
LINE D-3

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53004
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1945
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H/6"V
SHEET: 18 OF 42
PROJECT NO. 2009016.03

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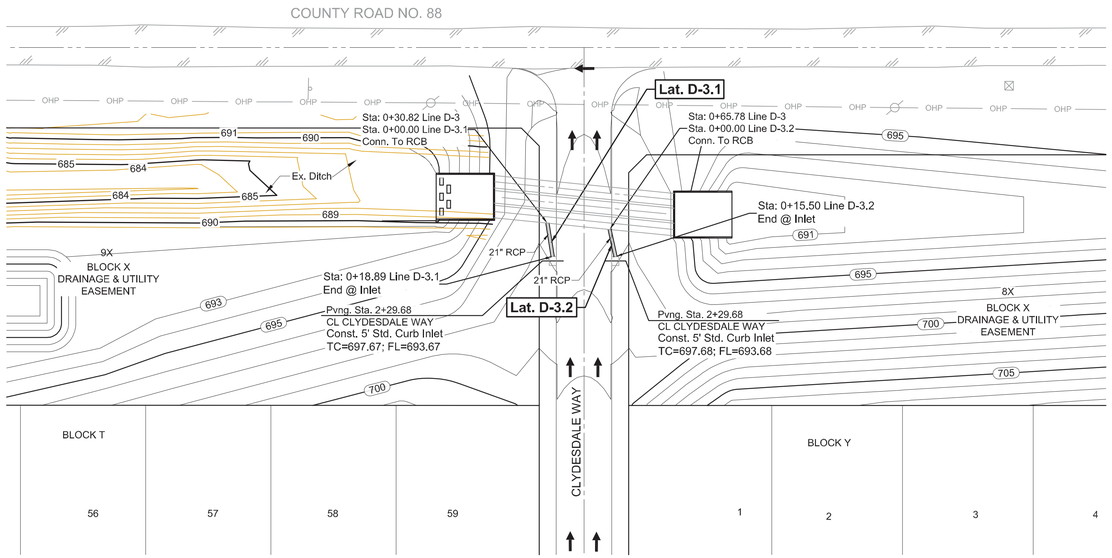
P-201412-01

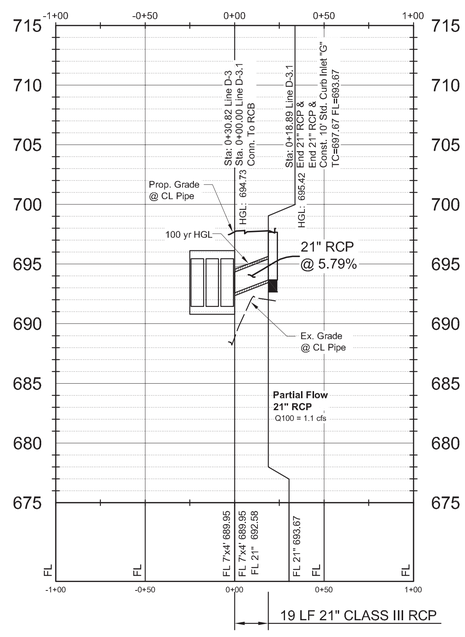
GRAPHIC SCALE

40 0 20 40 80 160

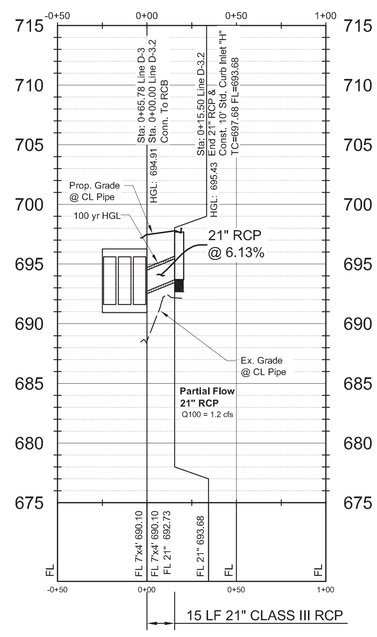
(IN FEET)
1 inch = 40 ft.



Profile View of D-3.1



Profile View of D-3.2



BENCHMARKS

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Elevation = 681.76 feet

RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

Notes:
See Sheet 2 For General Notes
See Sheets 40 & 41 For Storm Sewer Details

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

STORM SEWER PLAN & PROFILE
LAT 3.1 & LAT 3.2

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53004
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1945
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H/6"V
SHEET: 19 OF 42
PROJECT NO. 2009016.03

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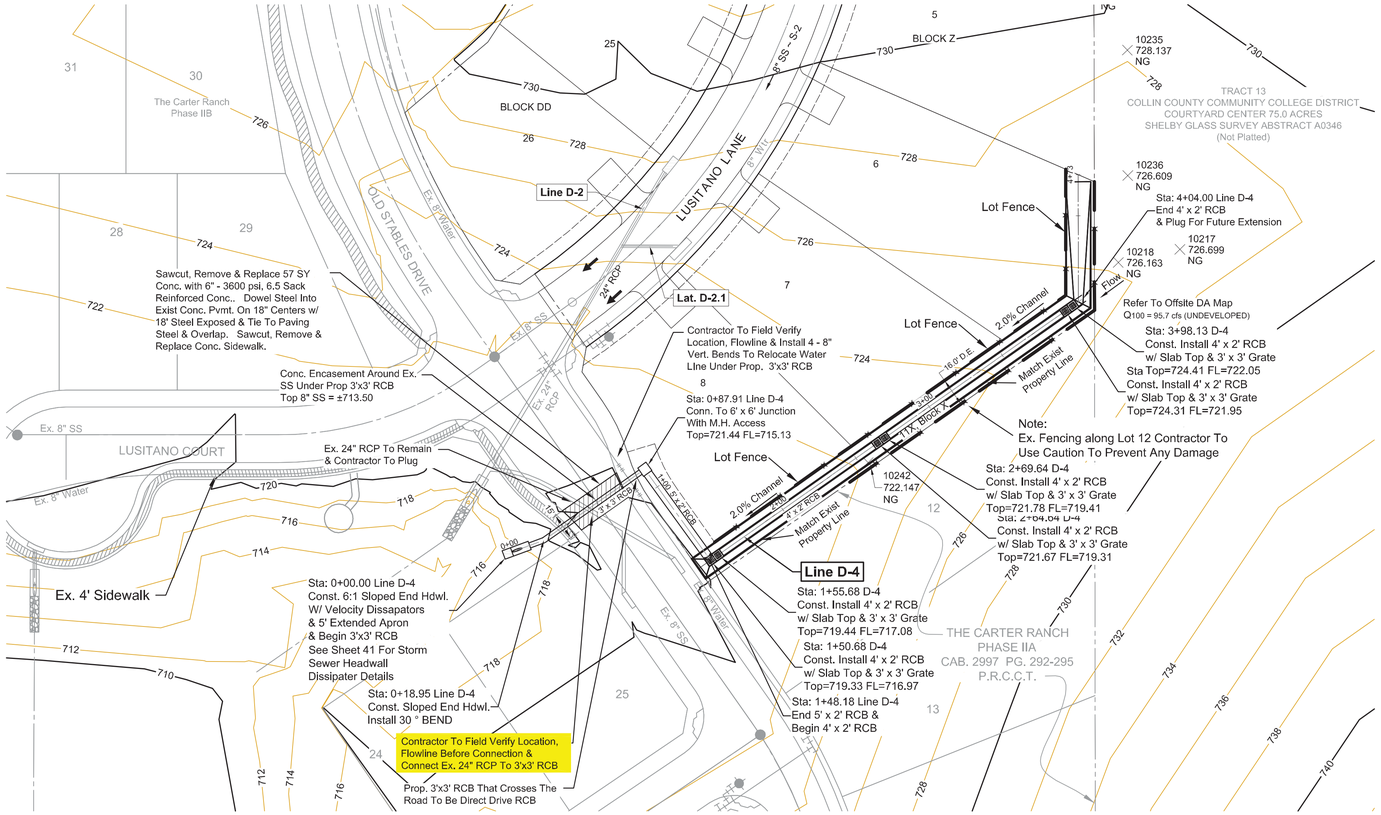
P-201412-01

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

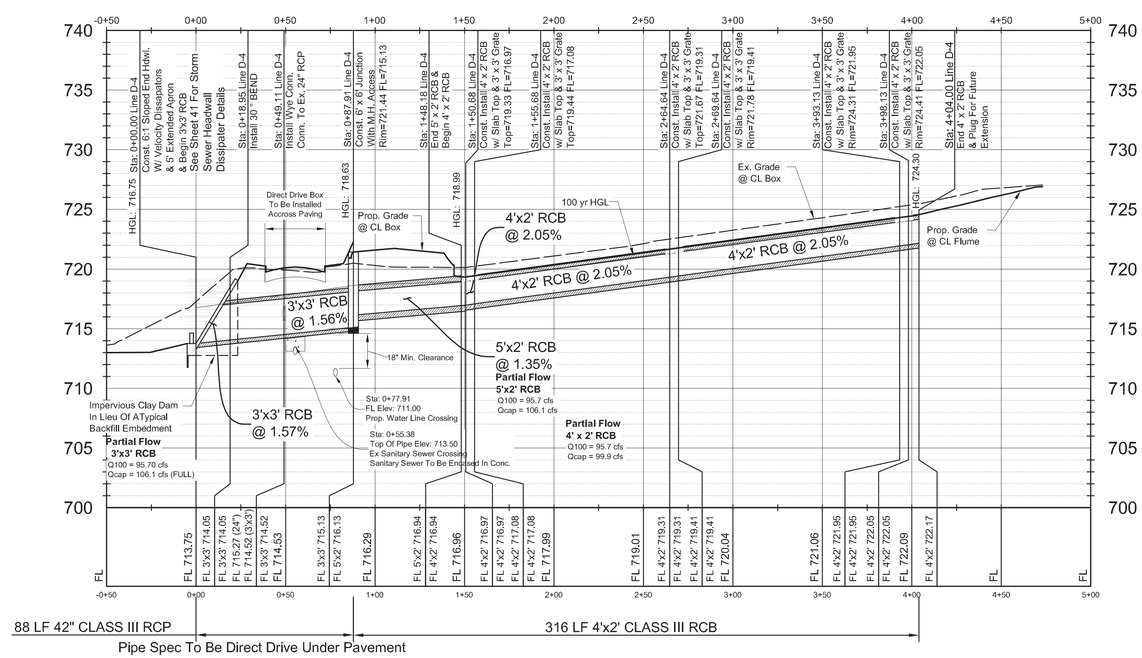


Notes:

1. Refer To Grading Sheet 27 For Channel Design.

2. Offsite Property To Create Detention To Detain Difference Between Developed & undeveloped Flow.

Profile View of D-4



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RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

Notes:
See Sheet 2 For General Notes
See Sheets 40 & 41 For Storm Sewer Details

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

STORM SEWER PLAN & PROFILE
LINE D-4

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53504
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H/6"V
SHEET: 20 OF 42
PROJECT NO. 2009016.03

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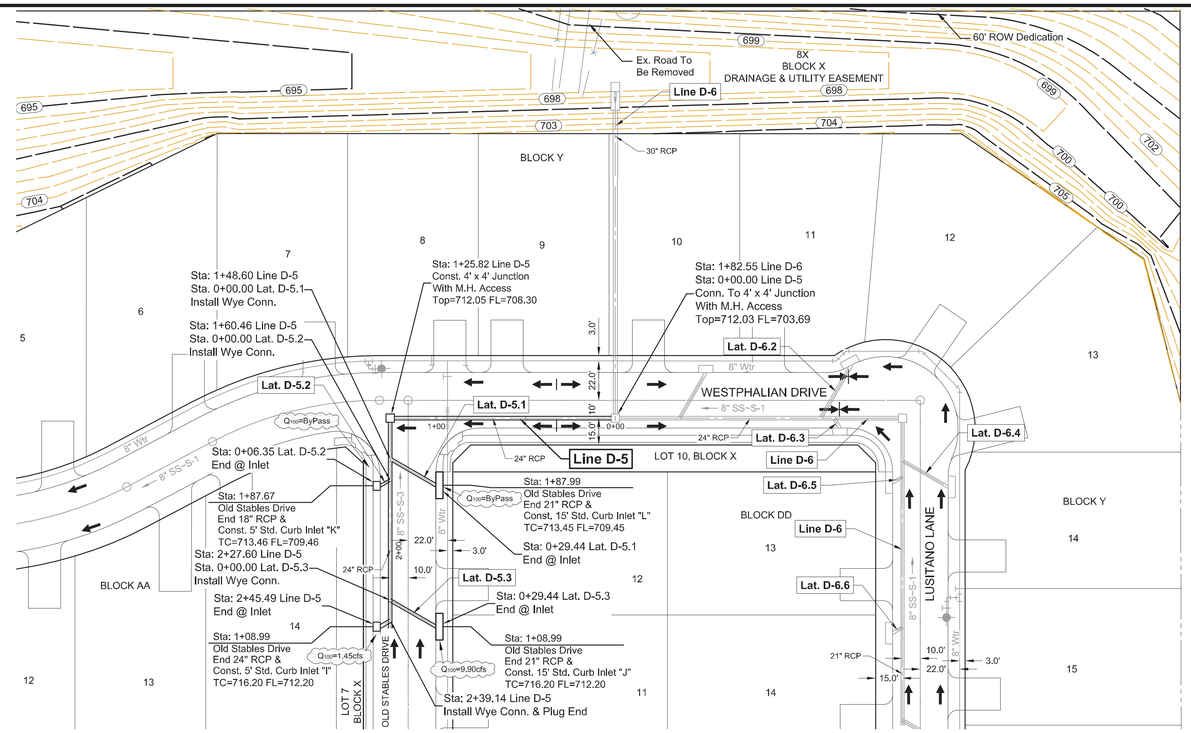
P-201412-01



RECORD DRAWING

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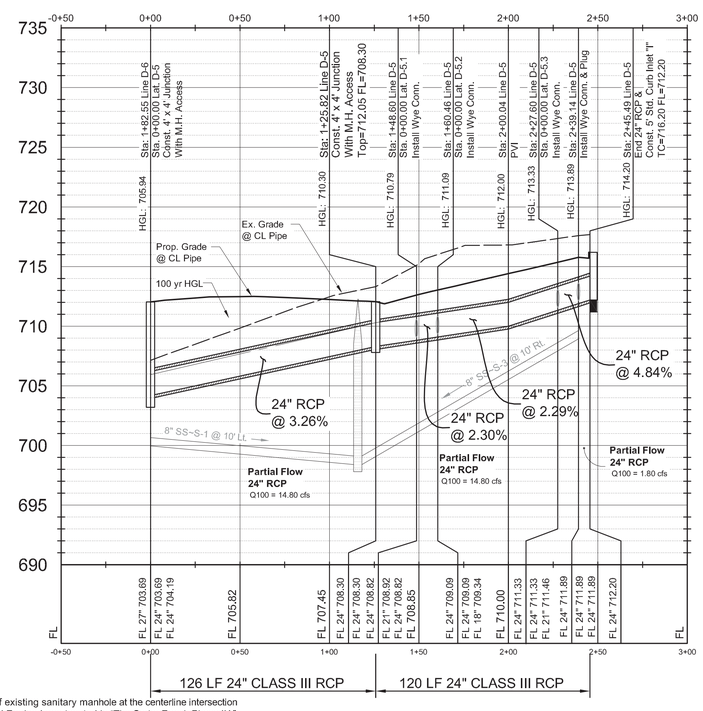
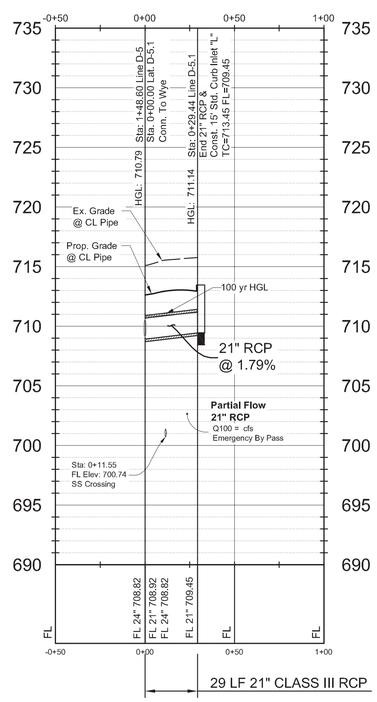
ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

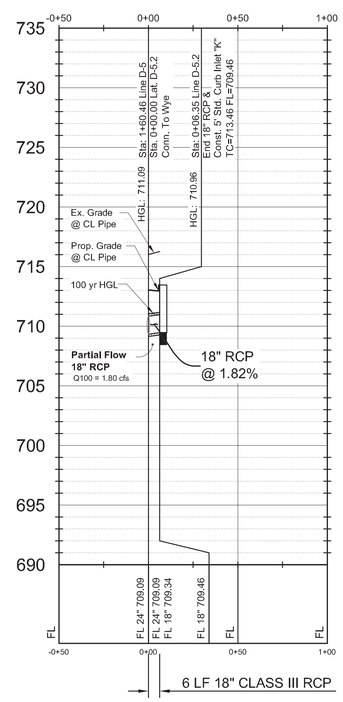
Profile View of D-5



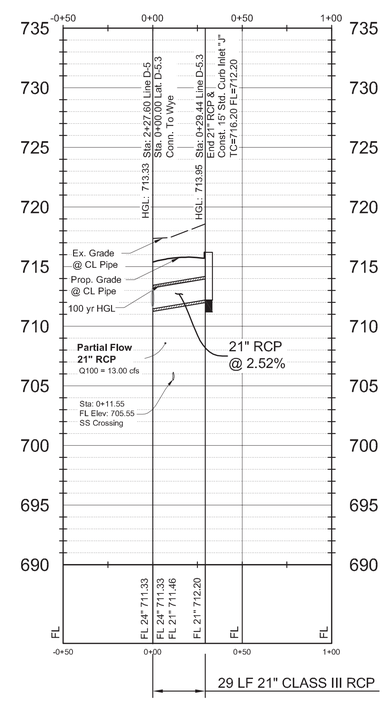
Profile View of D-5.1



Profile View of D-5.2



Profile View of D-5.3



BENCHMARKS

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GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

Notes:
See Sheet 2 For General Notes
See Sheets 40 & 41 For Storm Sewer Details

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

STORM SEWER PLAN & PROFILE
LINE D-5 LAT 5.1 LAT 5.2 & LAT D-5.3

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H/6"V
SHEET: 21 OF 42
PROJECT NO. 2009016.03

P-201412-01

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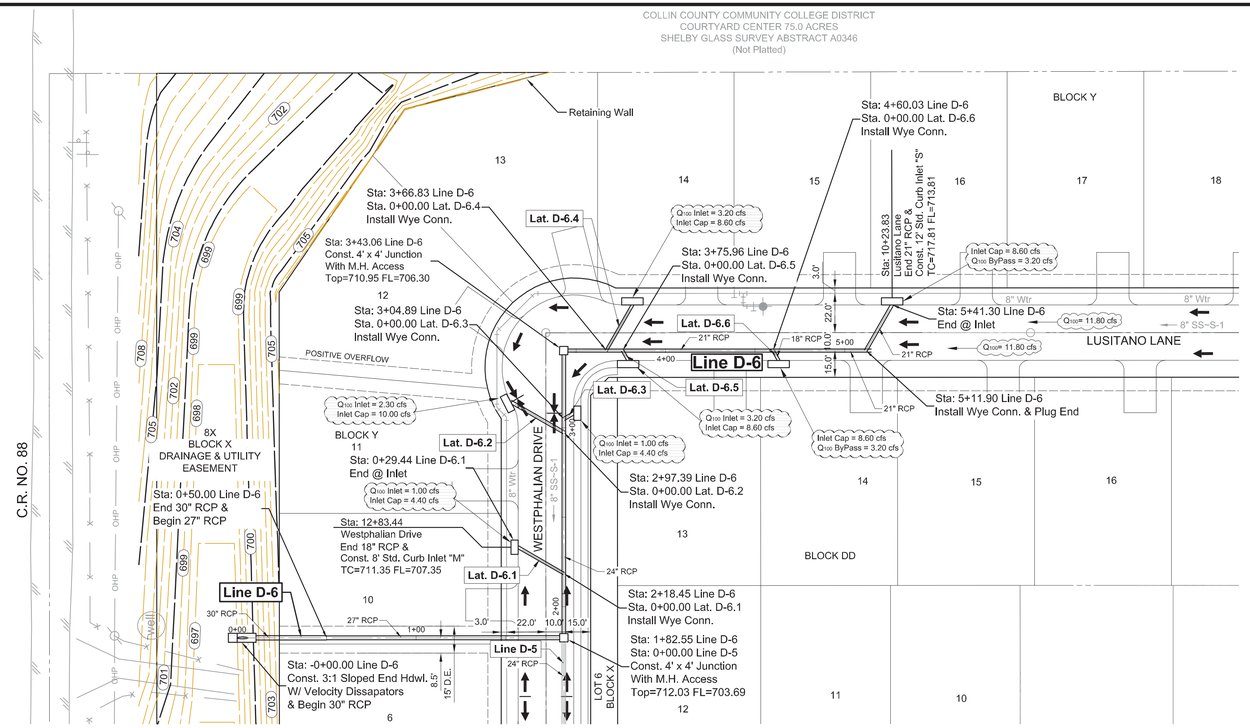

RECORD DRAWING

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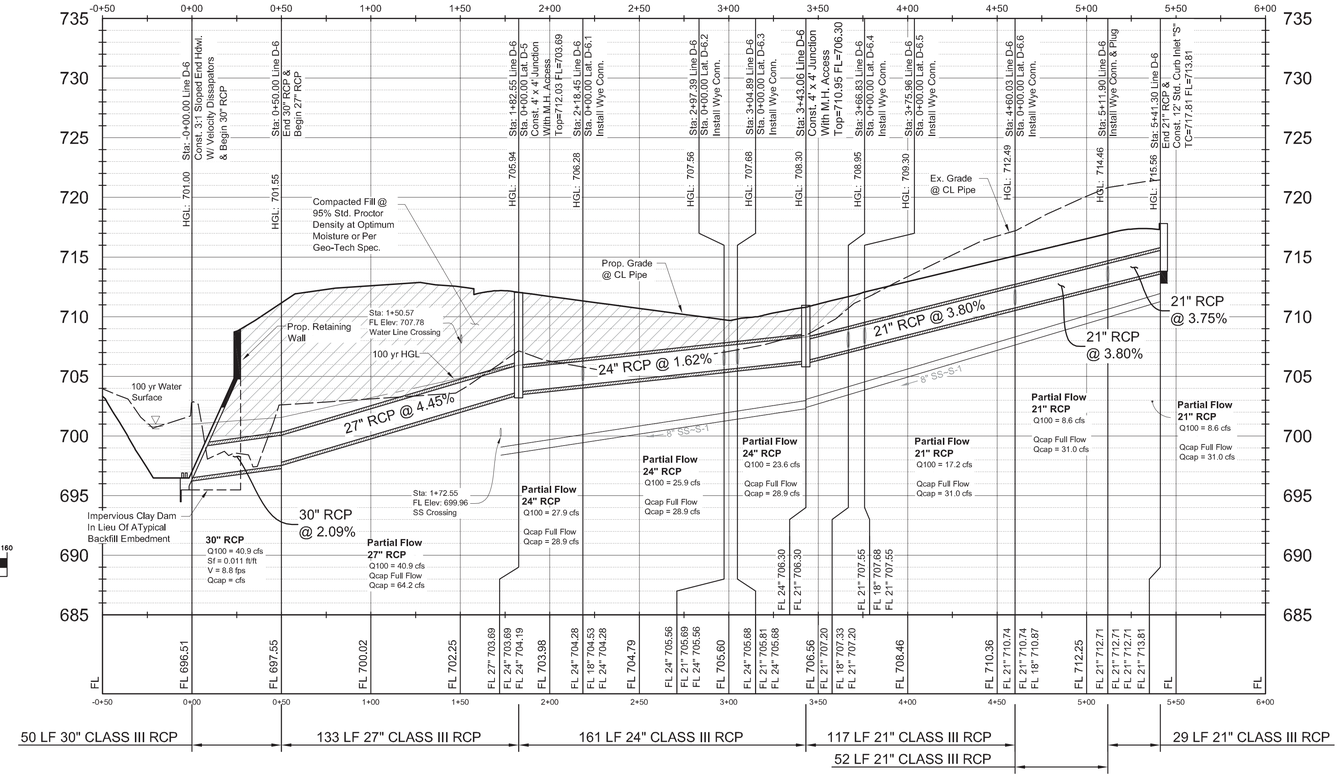
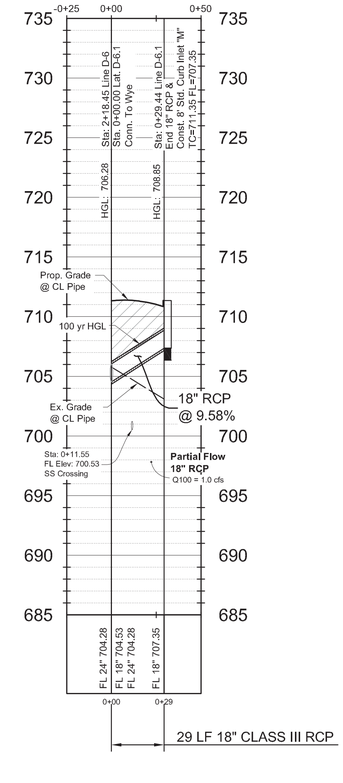
ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

General Note:
Additional Inlet Capacity Was Added To Provide Emergency By Pass Capacity Due To Slope & Sag At Elbow.

Profile View of D-6



Profile View of D-6.1



GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

Notes:
See Sheet 2 For General Notes
See Sheets 40 & 41 For Storm Sewer Details

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

STORM SEWER PLAN & PROFILE
LINE D-6 & LAT. D-6.1

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53904
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H/6"V
SHEET: 22 OF 42
PROJECT NO. 2009016.03

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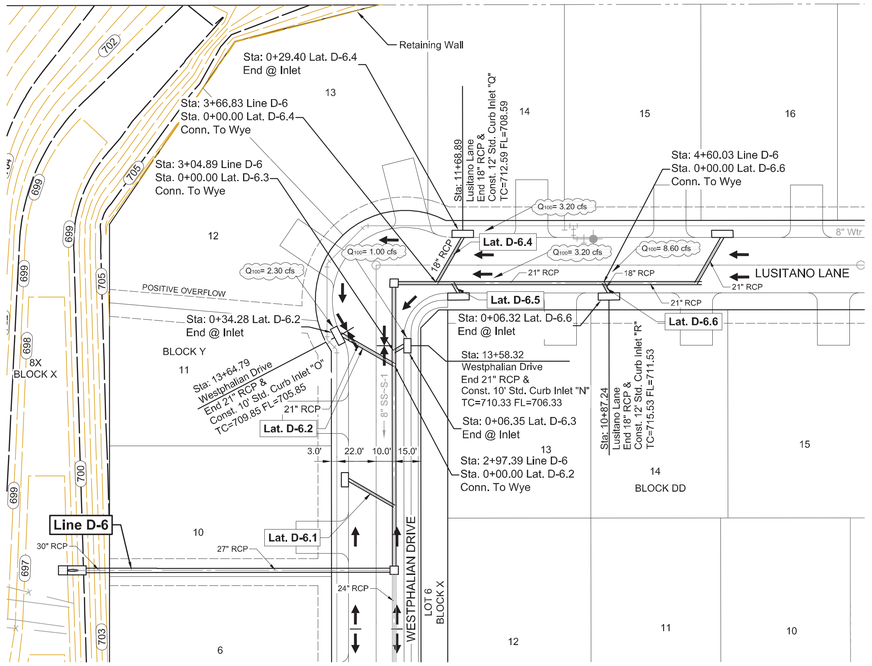
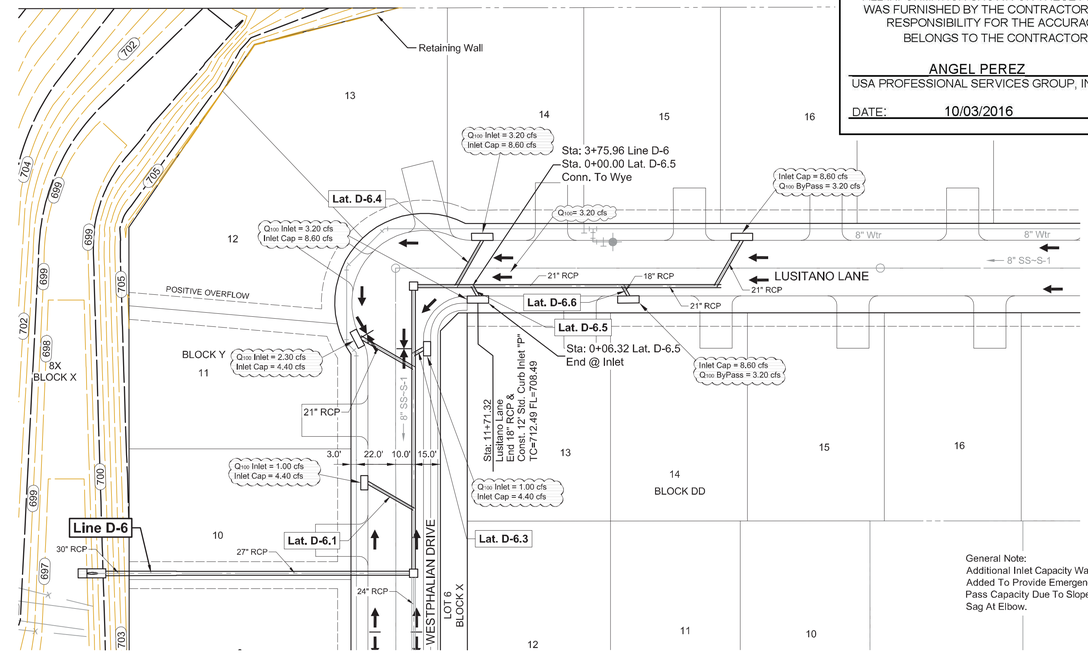
P-201412-01

TRACT 13
COLLIN COUNTY COMMUNITY COLLEGE DISTRICT
COURTYARD CENTER 75.0 ACRES
SHELBY GLASS SURVEY ABSTRACT A0346
(Not Platted)



Profile View of D-6.2

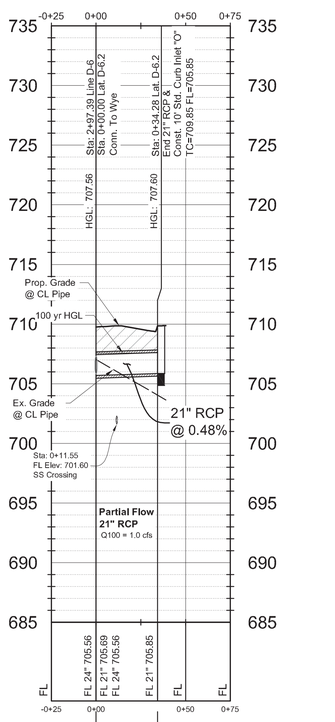


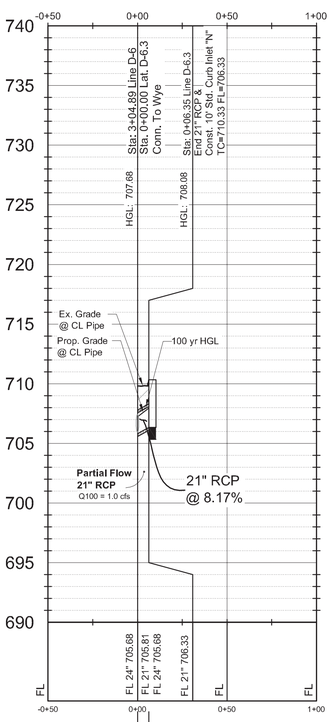
Profile View of D-6.3

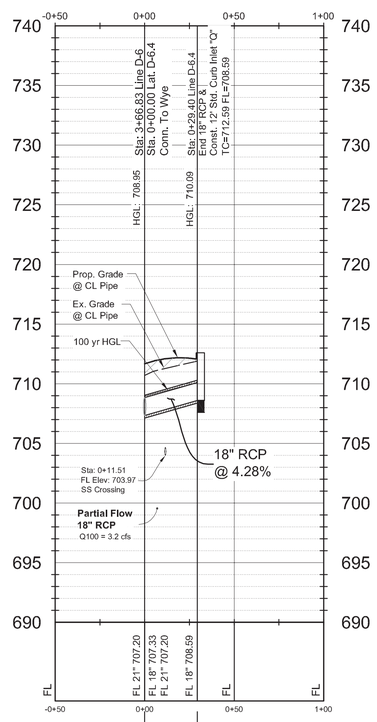
Profile View of D-6.4

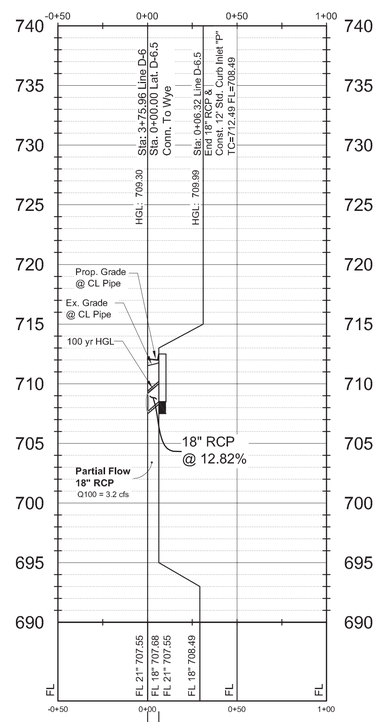
Profile View of D-6.5

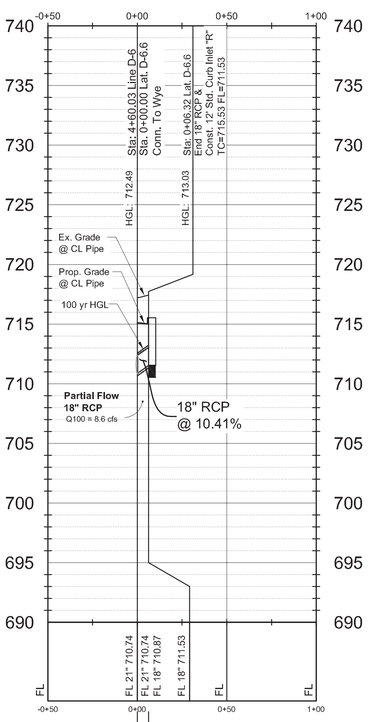
Profile View of D-6.6











GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

Notes:
See Sheet 2 For General Notes
See Sheets 40 & 41 For Storm Sewer Details

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STORM SEWER PLAN & PROFILE
LAT 6.2 LAT 6.3 LAT 6.4 LAT 6.5 & LAT D 6.6

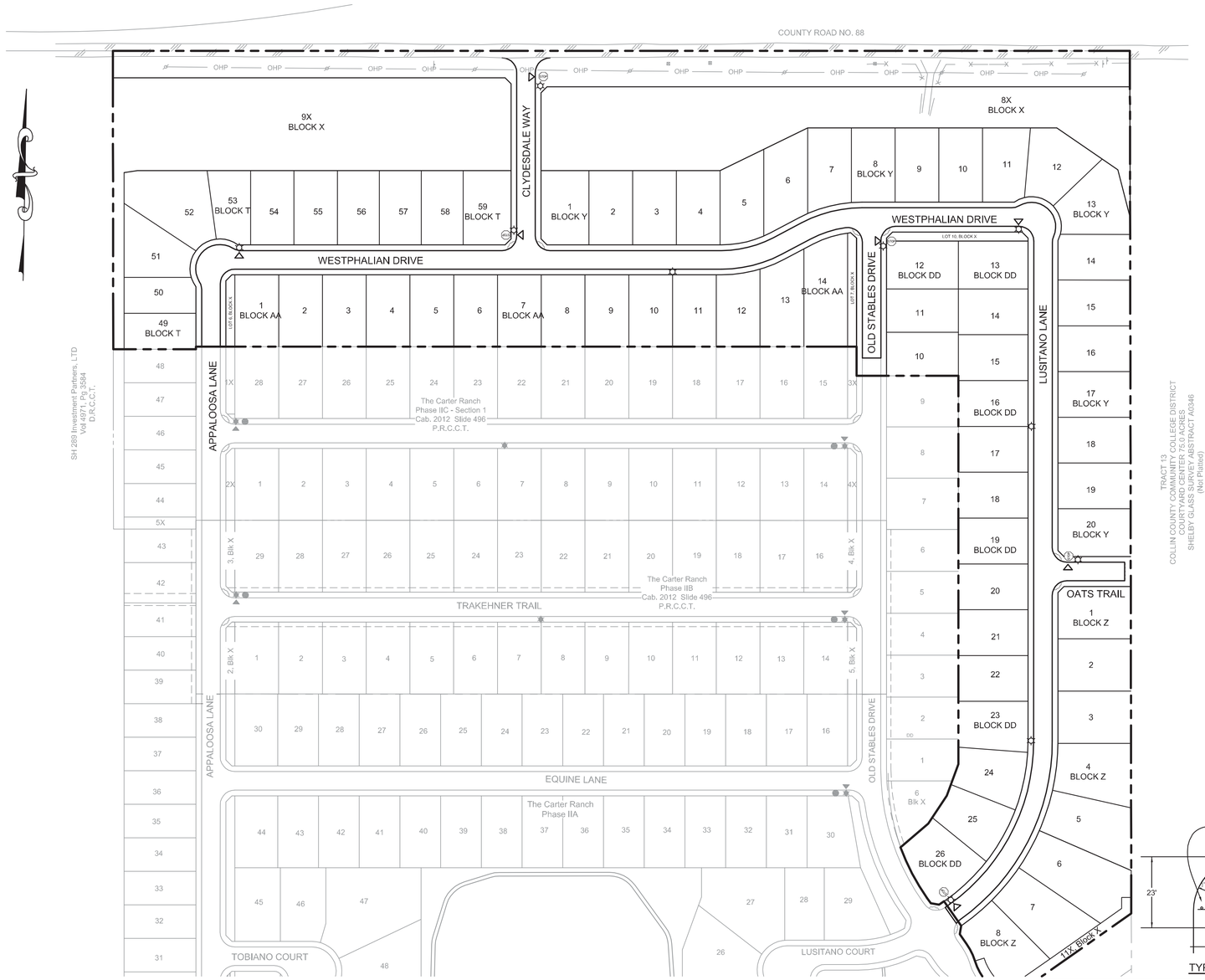
STATE OF TEXAS
DAVID M. SCHNURBUSCH
53904
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H/6"V
SHEET: 23 OF 42
PROJECT NO. 2009016.03

P:\Sakesmgt\2009016.03\dwg\Section 2\ 2009016_03-sd (sd-6) Laterals.dwg , 8/3/2015 3:45:41 PM , James Garbella

P-201412-01



STREET NAME BLADE SPECIFICATION

Location:
- 9" flat blades shall be used at all intersections within the interior of the subdivision.
- 9" extruded blades shall be used at intersections where a subdivision roadway intersects a roadway designated as a major or minor thoroughfare and at all other intersections along major and minor thoroughfares.

Blade Requirements:
- 9" Flat Blade shall be aluminum and have a thickness of 0.08 inches.
- 9" Extruded Blade shall be aluminum.

Lettering Alignment:
- Street name is left justified - Block numbers are located upper right corner.
- Abbreviated street designations are located in lower right corner.

Lettering for 9" Extruded Blades:
- Letters are all Uppercase. - Font is Federal Highway SERIES B or Series C (manufacturer will determine best to use based on length of blade and length of name).
- Letters and Numbers in street name are 6" tall.
- Letters in abbreviated street designation are 3" tall (i.e., LN, PKWY, DR, CT, etc).
- Block Numbers are 3" tall.

Sign Sheeting and Colors:
- High Intensity Sheeting.
- Background shall be green.
- Legend shall be white.

No Outlet Streets:
- The letters "NO OUTLET" shall be black uppercase letters on a yellow background.
- The word "NO" shall be centered over the word "OUTLET".
- On 9" flat blades, the font is Federal Highway SERIES B with 1.5" letters.
- On 9" extruded blades, the font is Federal Highway SERIES B with 2.5" letters.
- An arrow pointing in the direction of the no outlet locations shall be below the words "NO OUTLET".
- For a street with only one cul-de-sac end (typical), one side of the blade shall have "NO OUTLET" on the right with the arrow pointing to the right while the opposing side of the blade shall have the "NO OUTLET" on the left with the arrow pointing to the left.
- In the case of a street with two cul-de-sac ends, each side of the blade shall have the words "NO OUTLET" on the right with an arrow pointing to the right and the words "NO OUTLET" on the left with an arrow pointing to the left.

SIGNS & STREET LIGHT TABLE

SYMBOL	DESRIPTION	QTY.
	PROPOSED STREET LIGHT (SEE NOTE 5 BELOW)	9
	EXISTING STREET LIGHT	6
STOP	STOP SIGN	6
	EXISTING STOP SIGN	5
	STREET NAME (SEE NOTE 5 BELOW)	7
	EXISTING STREET SIGN	5

NOTES:

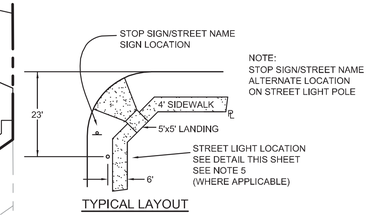
1. ILLUMINATION CONSTRUCTION TO BE COORDINATED WITH GCEC/ELECTRIC DELIVERY (BRIAN GREEN), PRIOR TO CONSTRUCTION, TEL (903) 821-3007.

2. LIGHT SOURCE HPS LAMP SIZE AND WATT IS 200 AND MOUNTING HEIGHT IS 32'.

3. AVERAGE ILLUMINATION INTENSITY IS 0.6 TO 0.9 FOOT CANDLES.

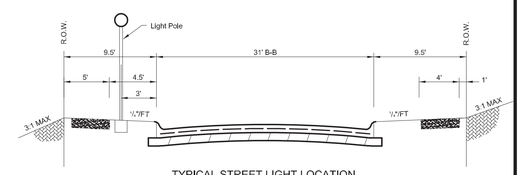
4. WHERE LIGHT POLE IS LOCATED MID BLOCK, IT SHALL BE PLACED ON PROPERTY LINE TO AVOID INTERFERENCE WITH POTENTIAL DRIVEWAY LOCATION.

5. WHERE LIGHT POLE AND STOP SIGN ARE PROPOSED ON THE SAME CORNER, STOP SIGNS AND STREET SIGNS SHALL BE MOUNTED TO LIGHT POLE.

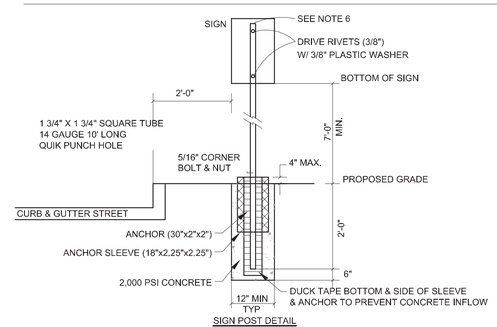


NOTE:
STOP SIGN/STREET NAME
ALTERNATE LOCATION
ON STREET LIGHT POLE

TYPICAL LAYOUT



TYPICAL STREET LIGHT LOCATION
N.T.S.



SIGN POST DETAIL
NTS

Celina Street Sign Example

Street Name: 6" initial uppercase letter followed by 4.5" lowercase letters
Must meet 2009 (or latest) MUTCD requirements
9" flat blank, high intensity prismatic

Front:
(Left to Right)

Back:
(Left to Right)

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

TBM #2 = "X" Found in concrete at the centerline intersection of Equine Lane and Old Stables Drive located in "The Carter Ranch Phase IIA". Elevation =728.63 feet

CM #5 = Concrete monument with 5/8 inch iron rod with cap stamped "Huitt-Zollars" at the Southeast corner of the intersection of State Highway 289 and County Road 88, located approximately 45' feet South of the centerline of County Road 88 and 112' feet East of the centerline of State Highway 289 Elevation = 681.76 feet

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

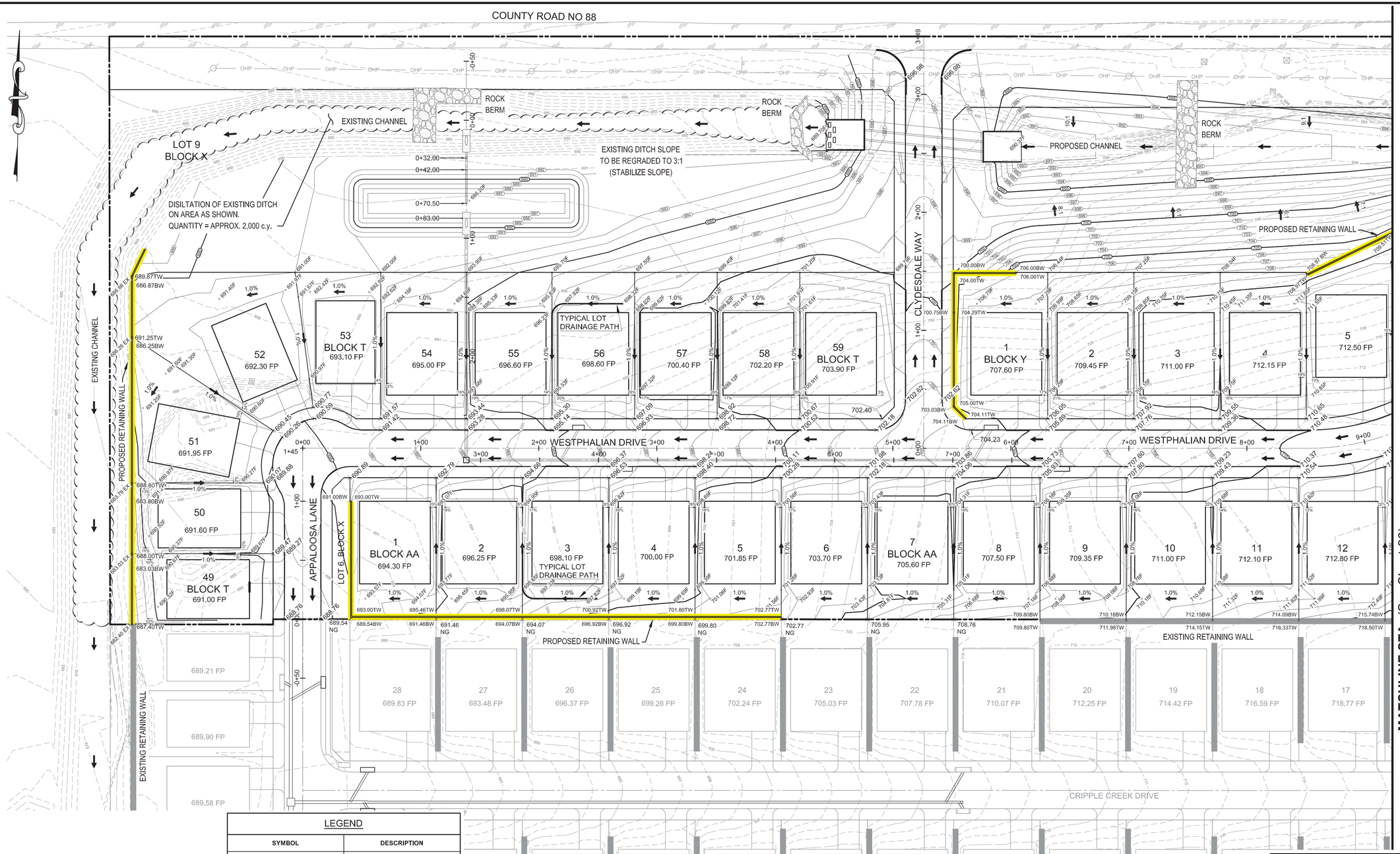
STREET LIGHT PLAN

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
58904
LICENSED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 100'H
SHEET: 24 OF 42
PROJECT NO. 2009016.03



LEGEND

SYMBOL	DESCRIPTION
D	DRIVEWAY
DG	ADDITIONAL DROP FOR GARAGE
F	FINISH GRADE
TC	TOP OF CURB
TW	TOP OF WALL
BW	BOTTOM OF WALL
FP	FINISH PAD
←	FLOW ARROW
471	PROPOSED CONTOURS
471	EXISTING CONTOURS
	PROPOSED STORM SEWER
DG = 0.5'	DROP GARAGE
	RETAINING WALL

BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

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RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

NOTES:
1. See Sheet 2 For General Notes
2. See Sheets 42 For Detaills & Pavement Cross Section
3. Geotechnical Engineering Report Provided By Rone Engineers Dated November 17, 2004
4. Grading Contractor To Remove Existing Storm Shelter Lot 14 Block DD.

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

GRADING PLAN

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53904
LICENSED
PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1945
CIVIL ENGINEERS • SURVEYORS
PLANNERS LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H
SHEET: 25 OF 42
PROJECT NO. 2009016.03

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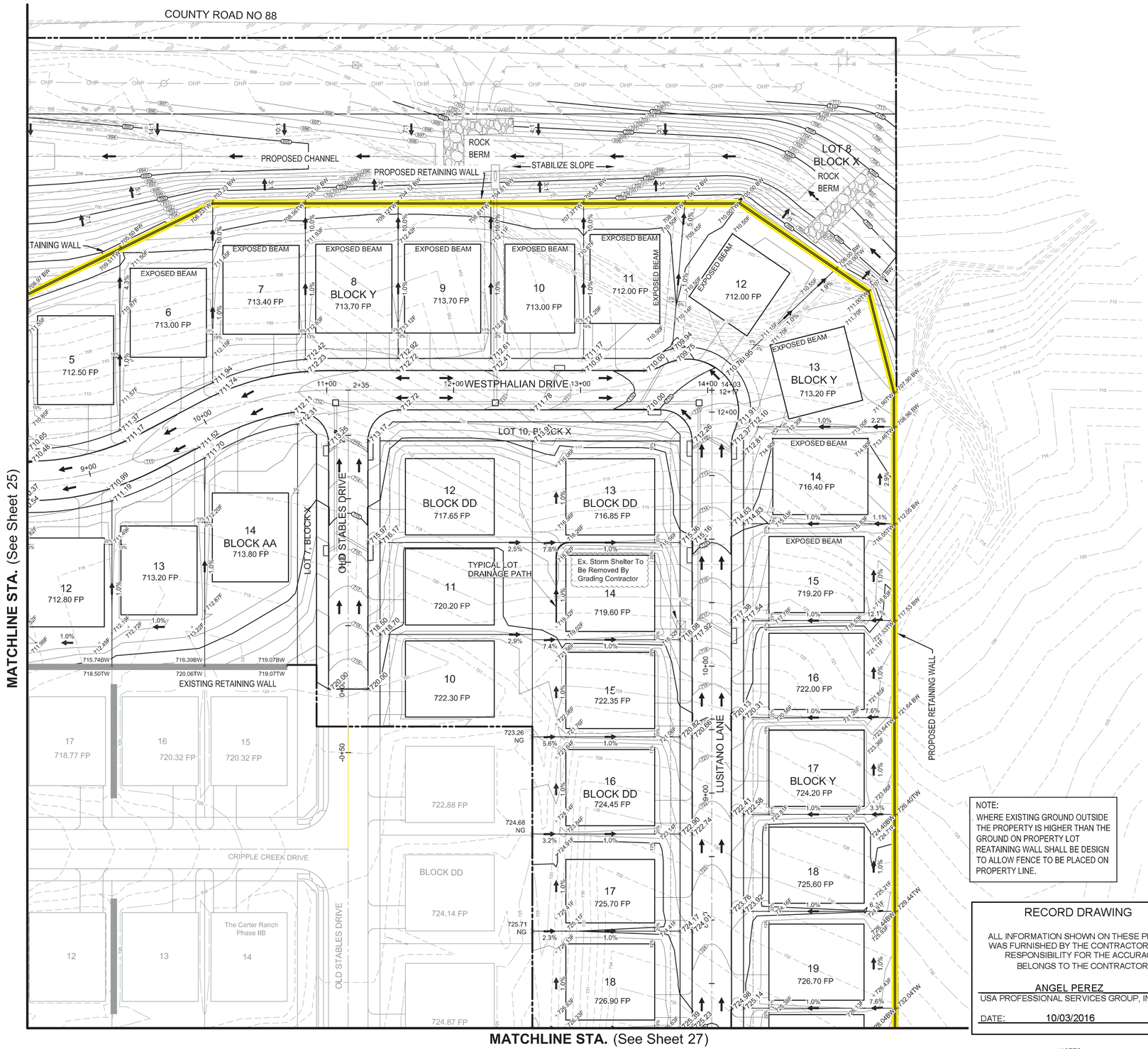
P-201412-01



GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

LEGEND

SYMBOL	DESCRIPTION
D	DRIVEWAY
DG	ADDITIONAL DROP FOR GARAGE
F	FINISH GRADE
TC	TOP OF CURB
TW	TOP OF WALL
BW	BOTTOM OF WALL
FP	FINISH PAD
	FLOW ARROW
471	PROPOSED CONTOURS
471	EXISTING CONTOURS
	PROPOSED STORM SEWER
DG = 0.5"	DROP GARAGE
	RETAINING WALL

NOTE:
WHERE EXISTING GROUND OUTSIDE THE PROPERTY IS HIGHER THAN THE GROUND ON PROPERTY LOT REATAINING WALL SHALL BE DESIGN TO ALLOW FENCE TO BE PLACED ON PROPERTY LINE.

RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

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NOTES:
1. See Sheet 2 For General Notes
2. See Sheets 42 For Details & Pavement Cross Section
3. Geotechnical Engineering Report Provided By Rone Engineers Dated November 17, 2004
4. Grading Contractor To Remove Existing Storm Shelter Lot 14 Block DD.

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

GRADING PLAN

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H
SHEET: 26 OF 42
PROJECT NO. 2009016.03

P-201412-01

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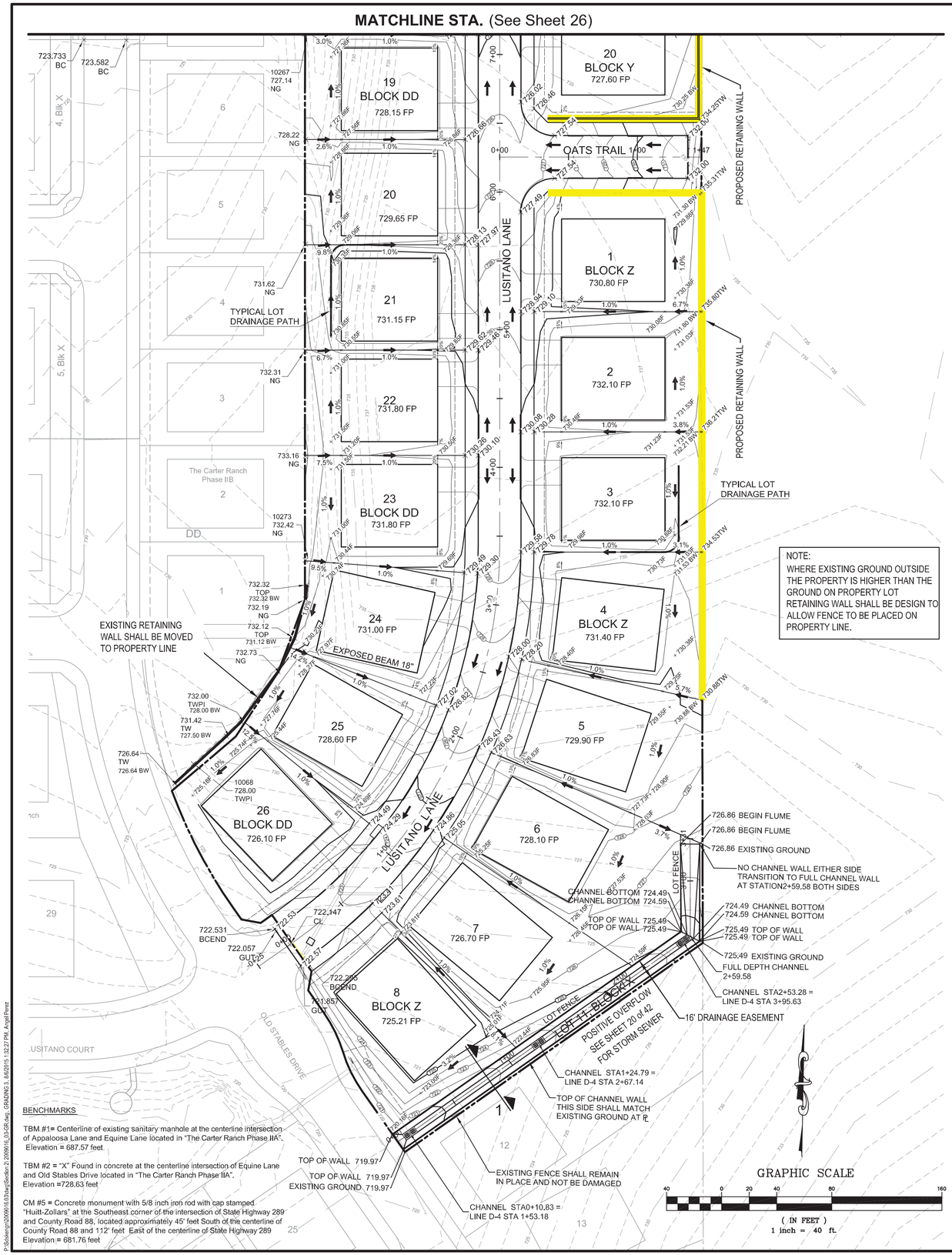
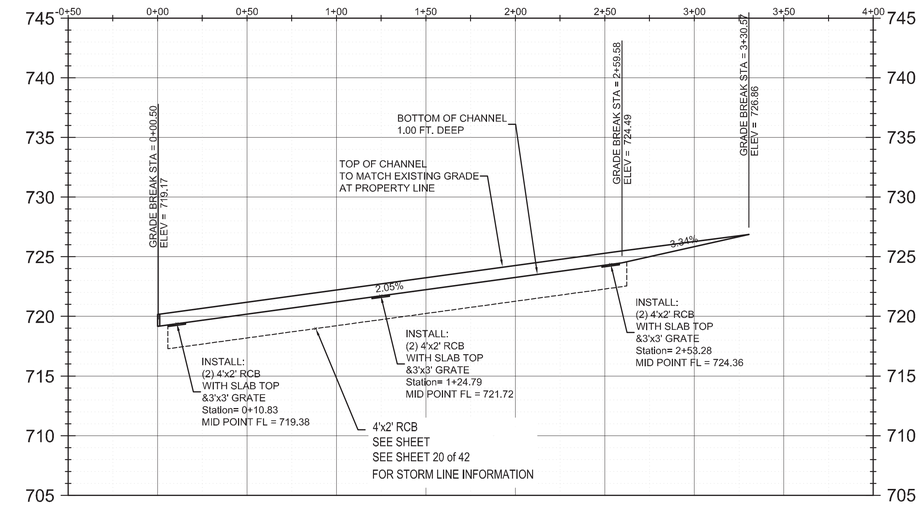
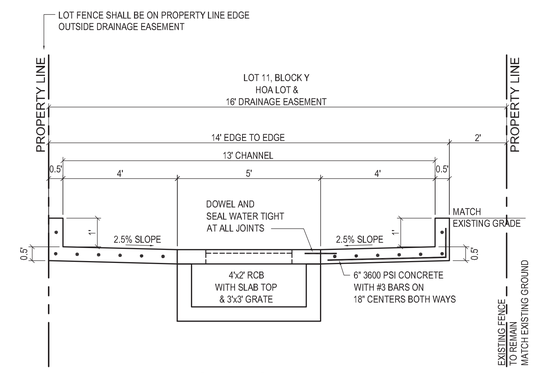


NOTE:
WHERE EXISTING GROUND OUTSIDE THE PROPERTY IS HIGHER THAN THE GROUND ON PROPERTY LOT RETAINING WALL SHALL BE DESIGN TO ALLOW FENCE TO BE PLACED ON PROPERTY LINE.

CHANNEL





SECTION 1

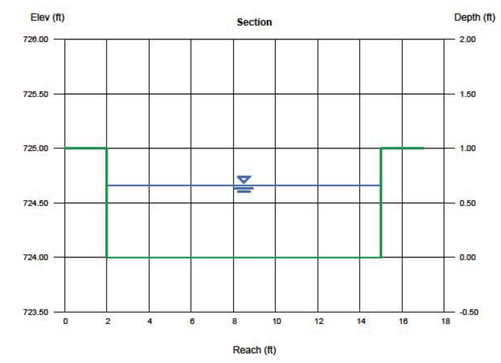
NOT TO SCALE

Channel Report

Hydraflow Express Extension for AutoCAD® Civil 3D® 2008 by Autodesk, Inc. — Wednesday, Aug 5 2015

<Name>

Rectangular		Highlighted	
Bottom Width (ft)	= 13.00	Depth (ft)	= 0.66
Total Depth (ft)	= 1.00	Q (cfs)	= 100.00
		Area (sqft)	= 8.58
Invert Elev (ft)	= 724.00	Velocity (ft/s)	= 11.66
Slope (%)	= 2.13	Wetted Perim (ft)	= 14.32
N-Value	= 0.013	Crit Depth, Yc (ft)	= 1.00
		Top Width (ft)	= 13.00
Calculations		EGL (ft)	= 2.77
Compute by:	Known Q		
Known Q (cfs)	= 100.00		



LEGEND

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BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

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RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

NOTES:
1. See Sheet 2 For General Notes
2. See Sheets 42 For Details & Pavement Cross Section
3. Geotechnical Engineering Report Provided By Rone Engineers Dated November 17, 2004
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REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

GRADING PLAN

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS — DAVID M. SCHNURBUSCH — 53804 — REGISTERED PROFESSIONAL ENGINEER — 7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1345
CIVIL ENGINEERS • SURVEYORS
PLANNERS LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H
SHEET: 27 OF 42
PROJECT NO. 2009016.03

P-201412-01

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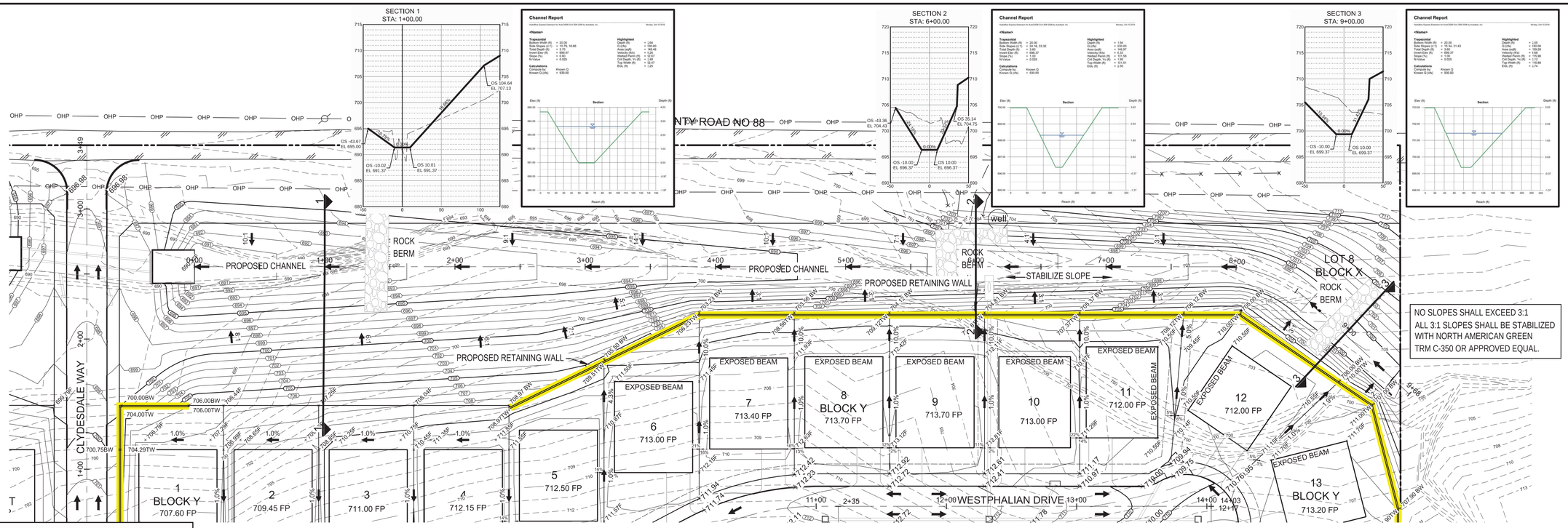

LEGEND

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	PROPOSED STORM SEWER
DG = 0.5"	DROP GARAGE
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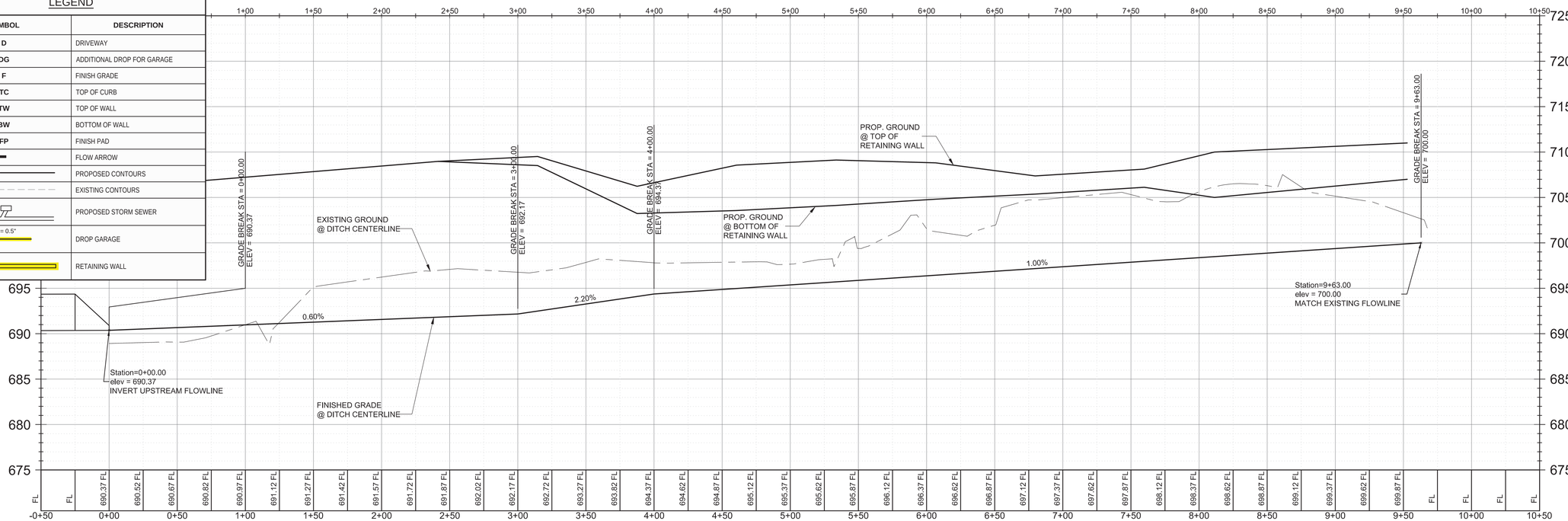

BENCHMARKS

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RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

NOTES:
1. See Sheet 2 For General Notes
2. See Sheets 42 For Details & Pavement Cross Section
3. Geotechnical Engineering Report Provided By Rone Engineers Dated November 17, 2004

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

EAST DITCH

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

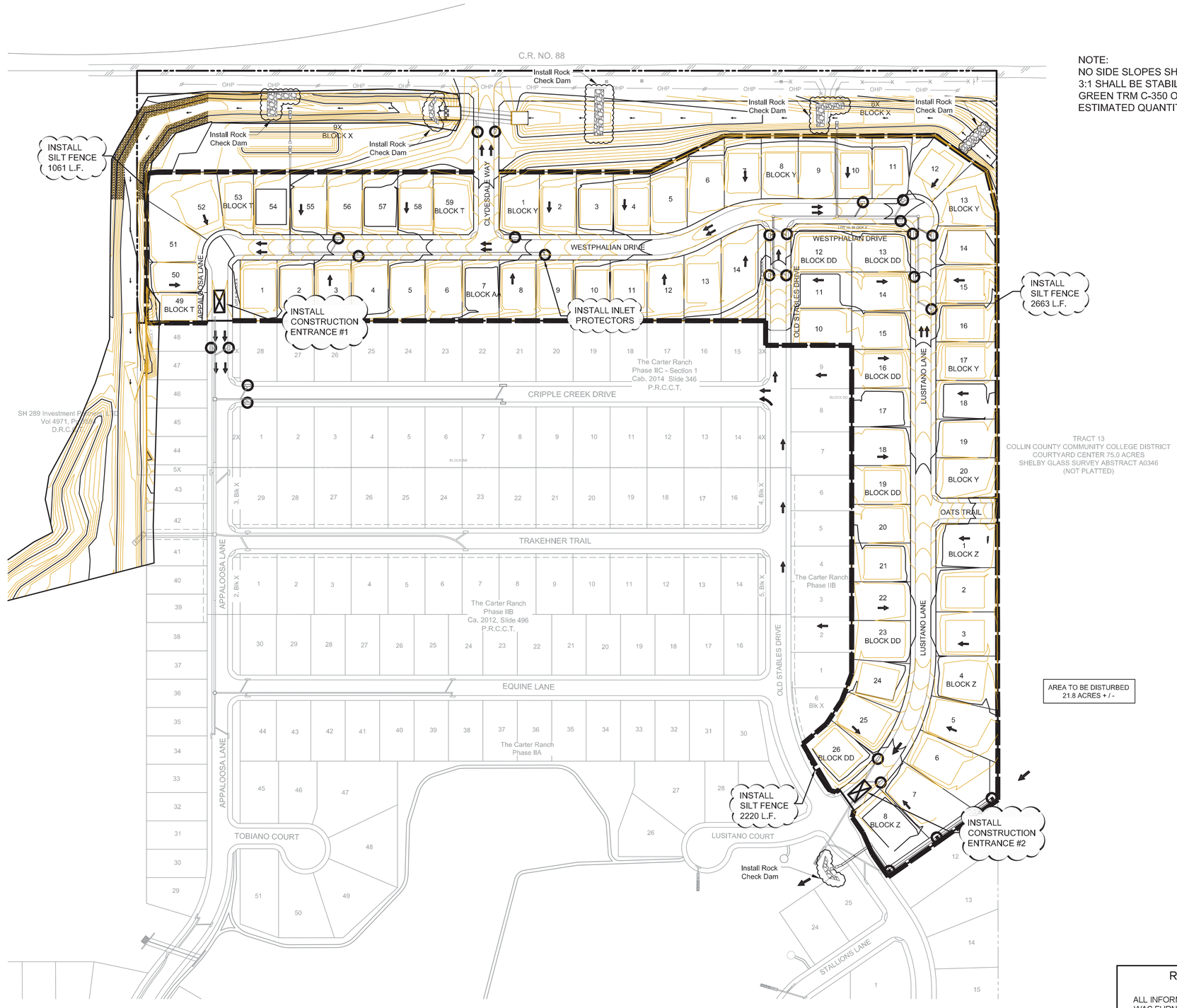
STATE OF TEXAS
DAVID M. SCHNURBUSCH
53904
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS ◆ SURVEYORS
PLANNERS ◆ LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H
SHEET: 28 OF 42
PROJECT NO. 2009016.03

P-201412-01

NOTE:
NO SIDE SLOPES SHALL EXCEED 3:1 ALL SLOPES
3:1 SHALL BE STABILIZED WITH NORTH AMERICAN GREEN TRM C-350 OR APPROVED EQUAL - ESTIMATED QUANTITY = 73,000 S.F.



LEGEND		
SYMBOL	DESCRIPTION	QTY.
	INLET PROTECTION	26
	ROCK CHECK DAM	5
	CONSTRUCTION ENTRANCE	2
	SILT FENCE TO BE INSTALLED WITH WELDED WIRE BACKING ON T-POSTS WITH WIRE TIES	3847 L.F.

BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

TBM #2 = "X" Found in concrete at the centerline intersection of Equine Lane and Old Stables Drive located in "The Carter Ranch Phase IIA". Elevation =728.63 feet

CM #5 = Concrete monument with 5/8 inch iron rod with cap stamped "Huitt-Zollars" at the Southeast corner of the intersection of State Highway 289 and County Road 88, located approximately 45' feet South of the centerline of County Road 88 and 112' feet East of the centerline of State Highway 289 Elevation = 681.76 feet

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS
EROSION CONTROL PLAN

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 100'H
SHEET: 29 OF 42
PROJECT NO. 2009016.03

P-201412-01

SITE DESCRIPTION

This Storm Water Pollution Prevention Plan (SWPPP) has been prepared for site development construction activities as shown on the following pages. The intent of this plan is to control storm water discharges and certain non-storm water discharges associated with site development construction. It is anticipated the following non-storm water discharges may be associated with the construction activities. Each of the following discharges are authorized by the Construction General Permit and are specified herein and made a part of this SWPPP.

1. Waters used to wash vehicles or control dust.
2. Waterline flushings.
3. Fire Hydrant flushings.
4. Irrigation drainage.
5. Routine pavement washdowns where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used.
6. Routine external building washdowns which do not use detergents.
7. Air conditioning condensates. 8. Foundation or footing drains where flows are not contaminated with process materials such as solvents.

If the Contractor anticipates or experiences any other non-storm water discharges, he shall contact the Engineer of Record to discuss the need for control measures and possible revisions to this SWPPP.

The runoff coefficient of the site after construction is complete is estimated as 0.6 per the CITY OF CELINA drainage design criteria. The soils at this site are per the soils report prepared by Rone Engineering , dated 11/17/04 . Storm water from this site discharges into Doe Branch . There are no wetland areas in the disturbed areas covered by this plan according to the U.S. Army Corps of Engineers, Fort Worth office The total site area is 26.536 acres. It is anticipated that 26.536 acres will be disturbed during the construction activities.

EROSION CONTROL GENERAL NOTES

1. Disturbed areas where construction has permanently or temporarily ceased must be stabilized within 14 days of the last disturbance. Area which will be redisturbed within 21 days need not be stabilized.

2. Erosion control measures will be actively maintained until final stabilization of the disturbed area. If erosion control measures are removed for construction or access purposes, Contractor shall replace all items at the end of each work day.

3. After installation of pavement, final lot benching and general cleanup, all disturbed areas shall be hydromulched or cultipack seeded. See seeding specifications this sheet.

4. Erosion control measures require maintenance, cleaning and replacement as required. Erosion control measures will be inspected at least once every seven days and within 24 hours of a rainfall one-half inch or greater by an Agent designated by the Operator and a written report shall be maintained.

5. Excavated trenches and utility spoils shall be backfilled or stockpiled at the end of each day.

6. Stockpiled materials shall be surrounded by silt barrier fence or hay bales per the attached details. Alternate: small stockpiled areas may be covered by a water repellent tarp or plastic as approved by the Operator.

7. Soils in parkways to be chain harrowed or chain dragged prior to seeding. After seeding, parkways to be maintained until a stand of grass has been accomplished and approved by the City.

INSTALLATION SEQUENCE

PHASE 1 (Initial Grading) Initial installation of silt fence shall be installed prior to clearing the site for establishing rough grades. Installation of silt fence and stone overflow shall be preserved by the excavation contractor. If during the course of clearing and excavation, the excavation contractor destroys or moves these facilities, then it shall be the responsibility of the excavation contractor to replace the facilities to the state in which he found them when he mobilized. Install Rock Check Dams upon completion of each section of ditch grading to begin at downstream locatoin.

PHASE 2 (Utility Install) If required, installation of silt fence or stone overflow, as shown, shall be installed prior to the construction of any drainage facilities and after inlet bottoms are poured. It shall be the utility contractor's responsibility to preserve and/or replace any facilities previously installed during PHASE 1 if destroyed.

PHASE 3 (Paving) Curlex shall be installed after the paving contractor has backfilled all street curbs. The paving contractor shall be responsible for preserving and/or replacing any previously installed facilities which are destroyed as a result of constructing any and all paving facilities.

PHASE 4 (Final Grading) All disturbed areas shall be seeded by others after the excavation contractor has completed the final lot benching of each lot within this development.

* All proposed stormwater pollution prevention devices shall be installed by a qualified contractor and shall be paid for per a unit price contract.

OTHER NOTES

1. Solid non-hazardous construction waste shall be disposed of in trash dumpsters or approved equal, in a location approved by the operator. Potentially soluble or leachable solid waste shall be stored off the ground and in covered leak-proof containers. Solid waste shall be properly disposed of off-site on a regular basis.

2. Hazardous waste shall be segregated from non-hazardous construction site debris. Liquid or semi-liquid hazardous waste shall be stored in appropriate containers (closed drums or similar) and shall be kept under cover. Granular, soluble or leachable hazardous waste materials shall be stored off the ground and in covered leak-proof containers. Hazardous waste storage area locations shall be properly approved of by the Operator. Hazardous waste shall be properly disposed of off-site on a regular basis by a reputable, licensed hazardous waste hauler.

Note: It is not the intent of this SWPPP to supersede or replace normal site assessment and remediation procedures concerning hazardous materials. Significant spills and/or contamination warrant immediate response by trained professionals. Suspected job site contamination should be immediately reported to regulatory authorities and protective actions taken.

3. Fresh concrete waste and concrete equipment washdowns shall be contained in an area approved by the operator. Contractor shall ensure that adequate vegetative buffer is present around concrete disposal areas.

4. All waste materials shall be stored away from drainage ditches, swales and drainage structures. Where appropriate, containment berms shall be placed around waste storage areas.

5. Contractor shall take appropriate measures to control dust generated during construction activities.

6. Contractor shall construct appropriate entryways to prohibit the tracking of dirt and debris off-site.

7. A centrally located port-a-pot shall be placed and maintained on the project site at all times during construction activities.

8. Equipment maintenance, repair and washdowns shall be performed off-site or in locations approved by Operator.

9. A copy of this SWPPP shall be kept on-site for the entire construction period. The NOI associated with this SWPPP shall be properly displayed on-site for the entire construction period.

10. A Notice of Termination (N.O.T.) shall be filed for this project upon City acceptance of the project and after final stabilization has been achieved and the responsibility for continued Storm Water Management/Erosion Control shall become that of the builder, city, or other appropriate entity responsible for any applicable construction activity in the future.

11. Complete inspection records pertaining to this NOI and SWPPP must be maintained by the Operator for a period of three (3) years following final stabilization.

BMP MAINTENANCE SCHEDULE		
BMP	MAINTENANCE FREQUENCY	BY:
TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIT	WEEKLY AND AFTER RAIN STORM EVENTS	OWNER
ROCK CHECK DAM	WEEKLY AND AFTER RAIN STORM EVENTS	OWNER
SILT FENCE	WEEKLY AND AFTER RAIN STORM EVENTS	OWNER
INLET PROTECTION	WEEKLY AND AFTER RAIN STORM EVENTS	OWNER

SEEDING SPECIFICATIONS

CULTIPACK SEEDING SPECIFICATIONS

Winter Rye Seed (Fall & Winter)	65 lb/acre	(1.5 lbs/1000 sq. ft.)
Common Bermuda Seed (Spring & Summer)	65 lb/acre	(1.5 lbs/1000 sq. ft.)
17/17/17 Fertilizer	380 lb/acre	(9 lbs/1000 sq. ft.)

HYDROMULCH SEEDING SPECIFICATIONS

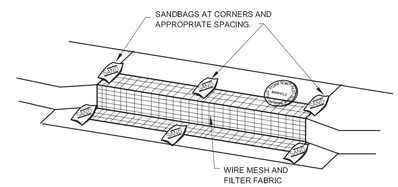
Winter Rye Seed (Fall & Winter)	65 lb/acre	(1.5 lbs/1000 sq. ft.)
Common Bermuda Seed (Spring & Summer)	65 lb/acre	(1.5 lbs/1000 sq. ft.)
17/17/17 Fertilizer	380 lb/acre	(9 lbs/1000 sq. ft.)
Wood Cellulose Mulch Fiber	2000 lb/acre	(50 lbs/1000 sq. ft.)
Biodegradable Tacifier	65 lb/acre	(1.5 lbs/1000 sq. ft.)

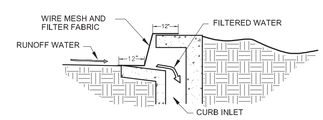
Note: Soil to be seeded shall be chain harrowed or chain dragged prior to seeding. After seeding, these areas shall be maintained until grass is established and approved by Operator.

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

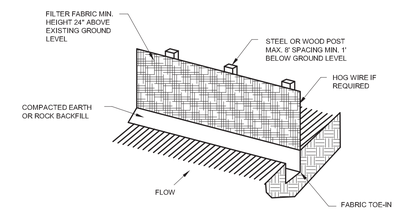
ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016



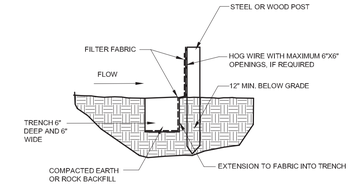


SEDIMENT BARRIER AT INLETS OR APPROVED EQUALSTONE OVERFLOW STRUCTURE, SOCK, ETC.

N.T.S.



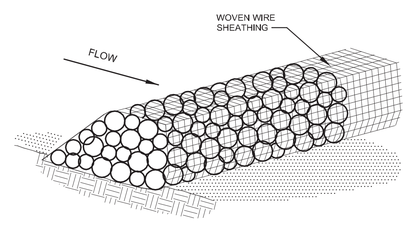
ISOMETRIC VIEW



SECTION VIEW

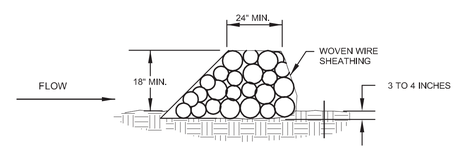
SILT FENCE

N.T.S.



ISOMETRIC PLAN VIEW

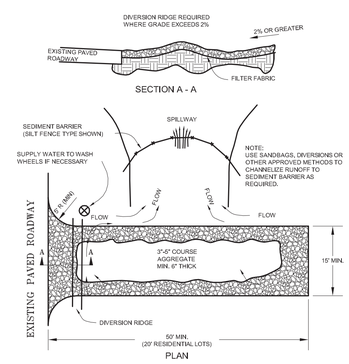
N.T.S.



ROCK CHECK DAM

CROSS SECTION

N.T.S.



TEMPORARY STONE CONSTRUCTION ENTRANCE / EXIT

N.T.S.

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

EROSION CONTROL DETAILS

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: NOT TO SCALE
SHEET: 30 OF 42
PROJECT NO. 2009016.03

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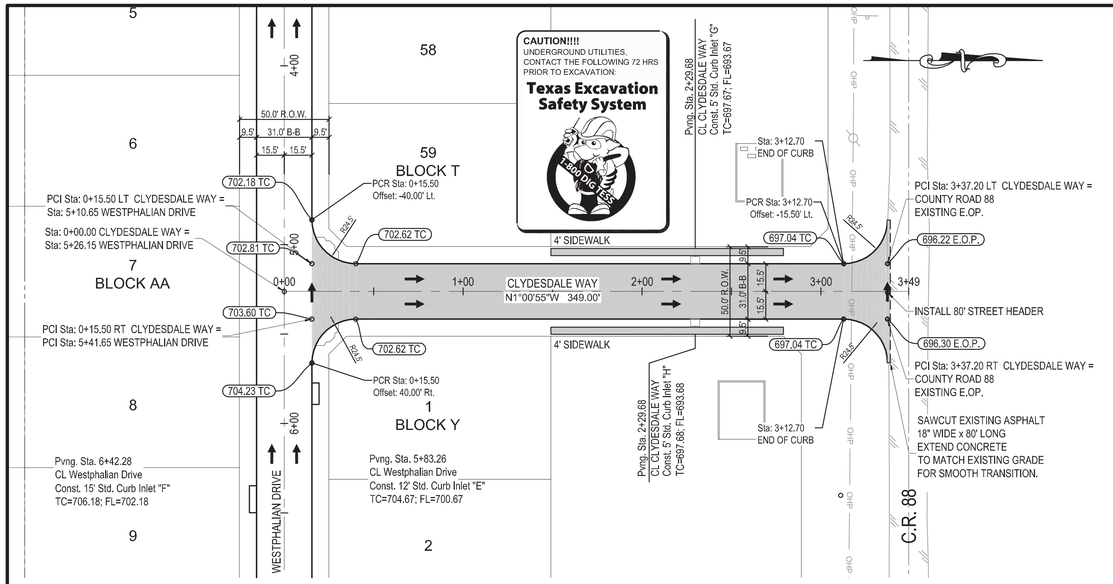
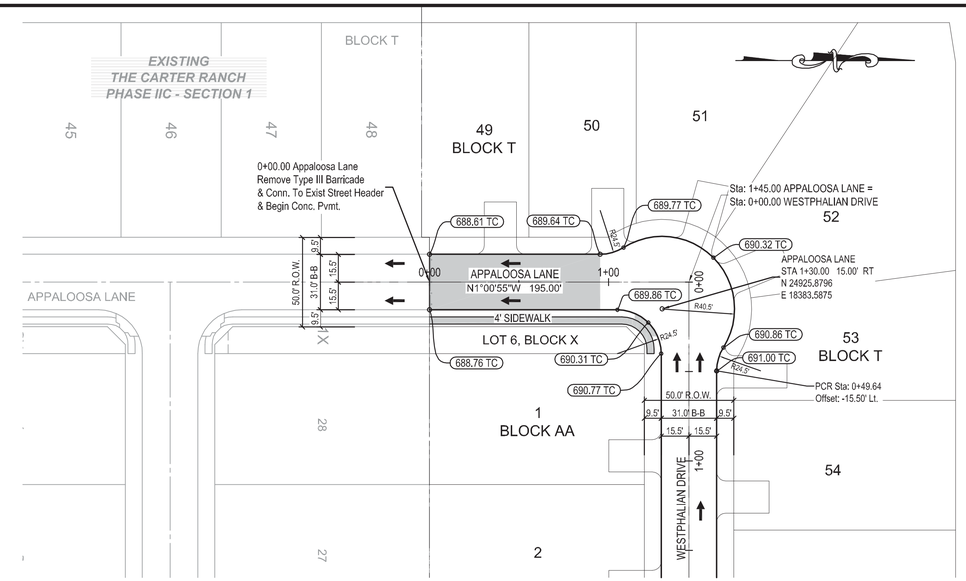
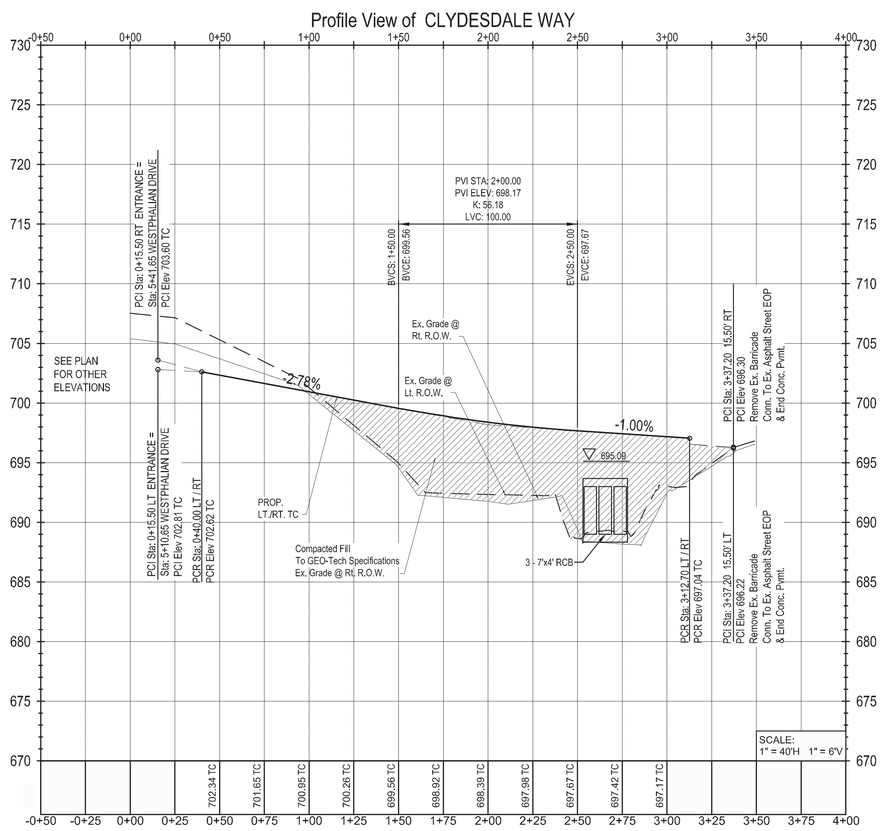
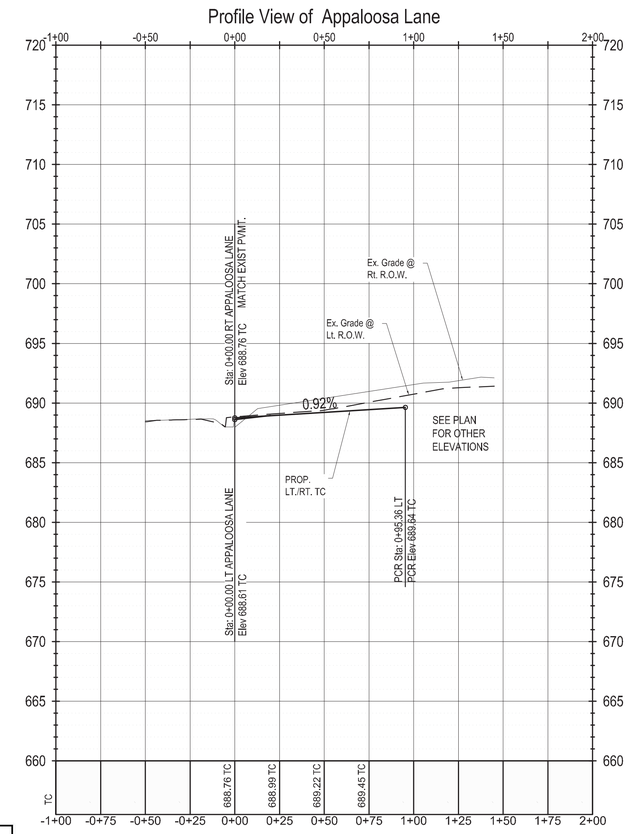
P-201412-01









BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

TBM #2 = "X" Found in concrete at the centerline intersection of Equine Lane and Old Stables Drive located in "The Carter Ranch Phase IIA". Elevation =728.63 feet

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RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

LEGEND	
SYMBOL	DESCRIPTION
TC	Top of Curb
PCR	Curb Return
PCI	Point of Intersection
PVI	Point of Vertical Intersection
PVC	Point of Vertical Curve
PVT	Point of Vertical Tangency
LVC	Length of Vertical Curve
BVCS	Begin of Vertical Curve Station
EVCS	End of Vertical Curve Station

NOTE:
SEE SHEET 2 FOR GENERAL NOTES
SEE SHEETS 42 FOR DETAILS

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

PAVING PLAN & PROFILE:
ENTRANCE Sta: 0+15.50 to Sta: 3+37.20
APPALOOSA LANE Sta: 0+00.00 to Sta: 0+95.36

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53904
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H 1" = 6'V
SHEET: 31 OF 42
PROJECT NO. 2009016.03

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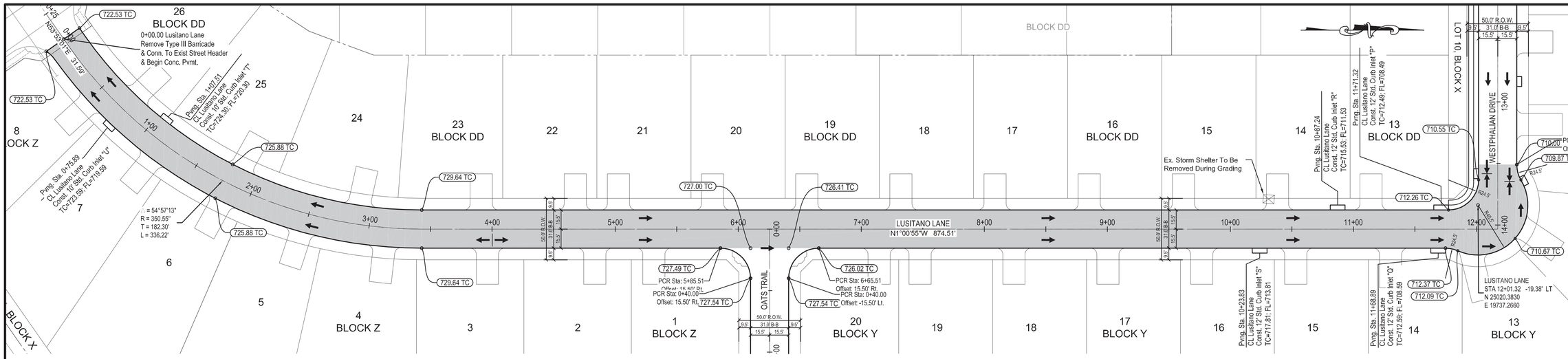
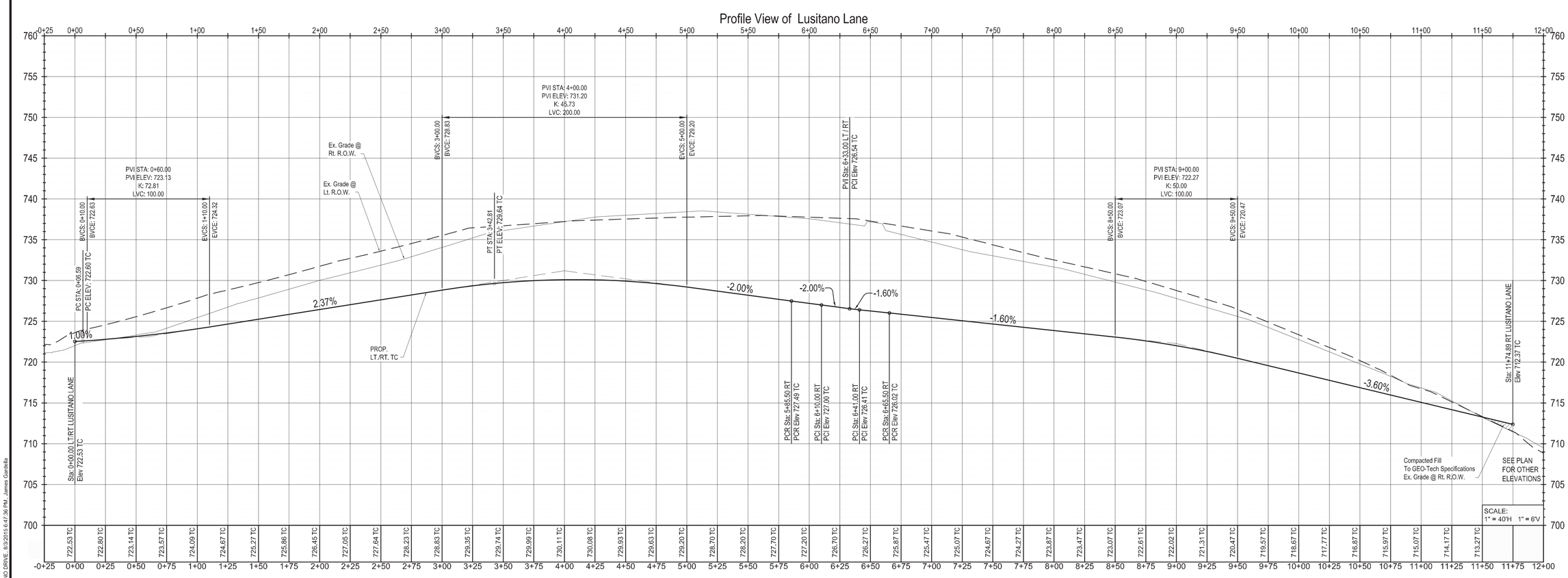
P-201412-01





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RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

LEGEND

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REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

PAVING PLAN & PROFILE:
LUSITANO DRIVE
Sta: 0+00.00 to Sta: 11+74.89

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53904
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
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PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H 1" = 6'V
SHEET: 32 OF 42
PROJECT NO. 2009016.03

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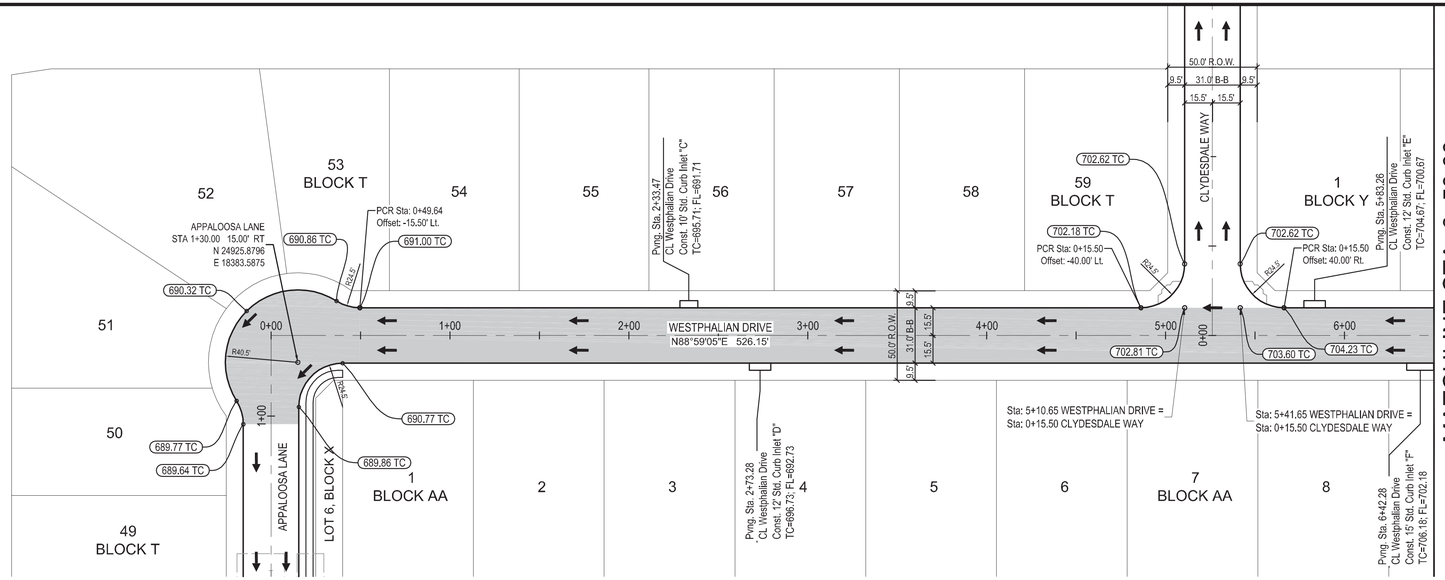
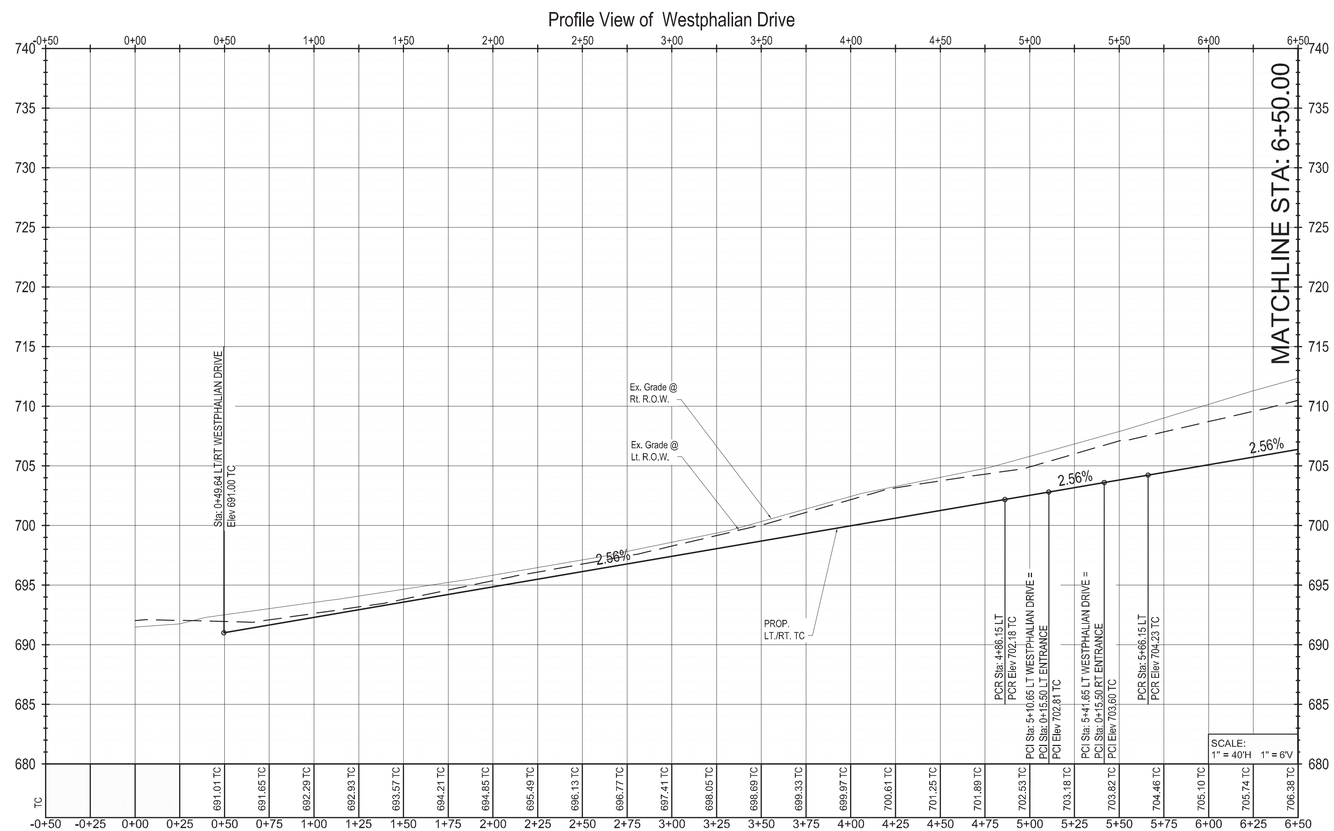
P-201412-01





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USA PROFESSIONAL SERVICES GROUP, INC.

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GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

NOTE:
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REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2

CITY OF CELINA, COLLIN COUNTY, TEXAS

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

PAVING PLAN & PROFILE:
WESTPHALIAN DRIVE
Sta: 0+49.64 to Sta: 6+50.00

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53904
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
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CIVIL ENGINEERS • SURVEYORS
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1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: 1" = 40'H 1" = 6'V
SHEET: 33 OF 42
PROJECT NO. 2009016.03

P-201412-01

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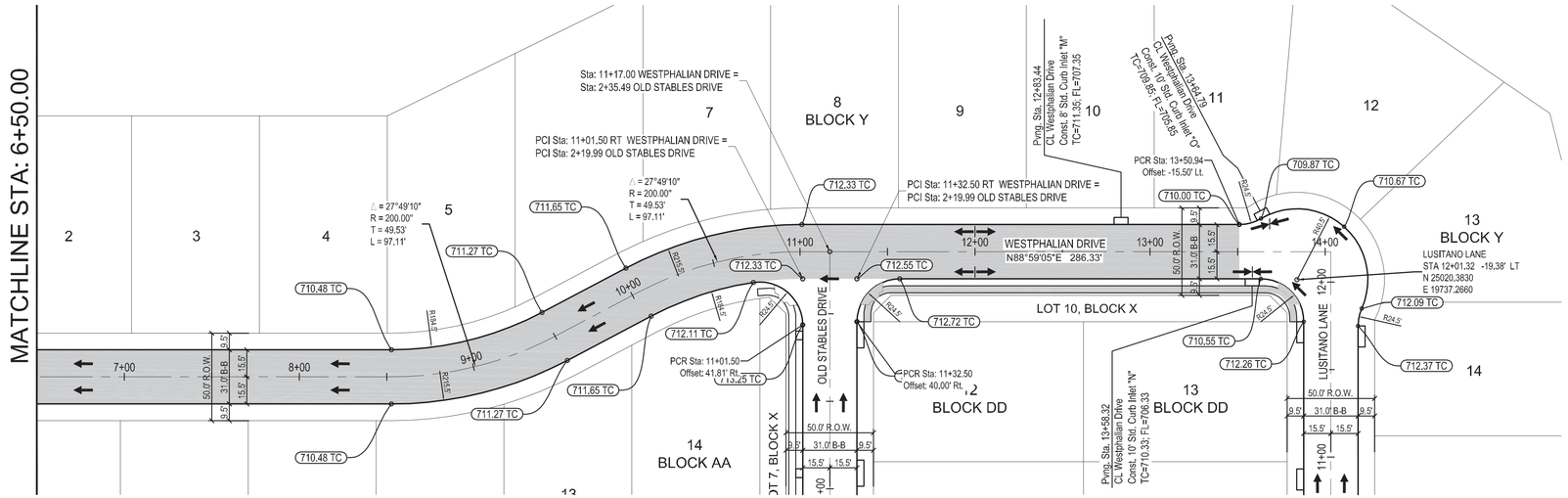

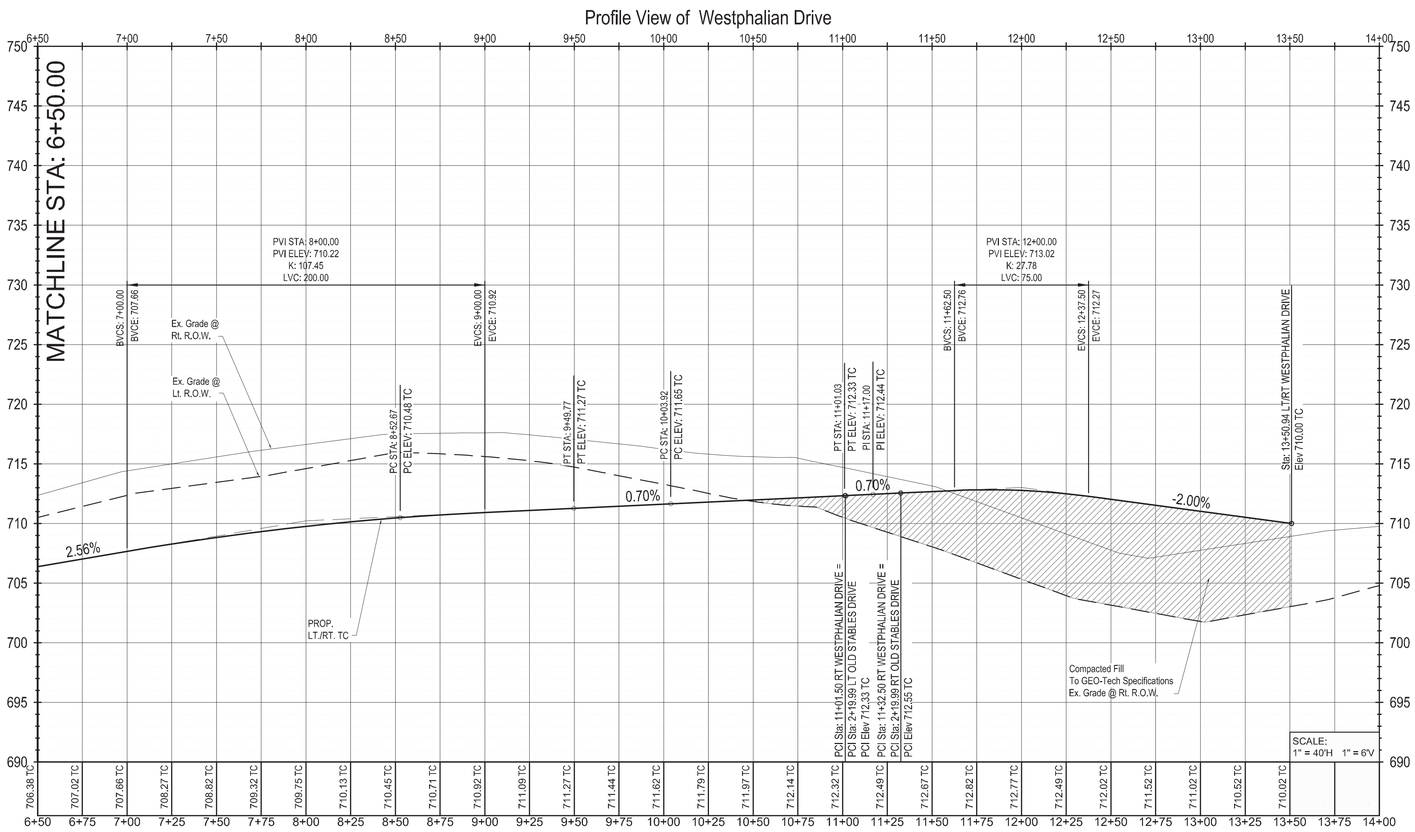

RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

LEGEND

SYMBOL	DESCRIPTION
TC	Top of Curb
PCR	Curb Return
PCI	Point of Intersection
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GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

NOTE:
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BENCHMARKS

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Elevation = 687.57 feet

TBM #2 = "X" Found in concrete at the centerline intersection of Equine Lane and Old Stables Drive located in "The Carter Ranch Phase IIA".
Elevation =728.63 feet

CM #5 = Concrete monument with 5/8 inch iron rod with cap stamped "Huitt-Zollars" at the Southeast corner of the intersection of State Highway 289 and County Road 88, located approximately 45' feet South of the centerline of County Road 88 and 112' feet East of the centerline of State Highway 289
Elevation = 681.76 feet

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

PAVING PLAN & PROFILE:
WESTPHALIAN DRIVE
Sta: 6+50.00 to Sta: 13+50.94

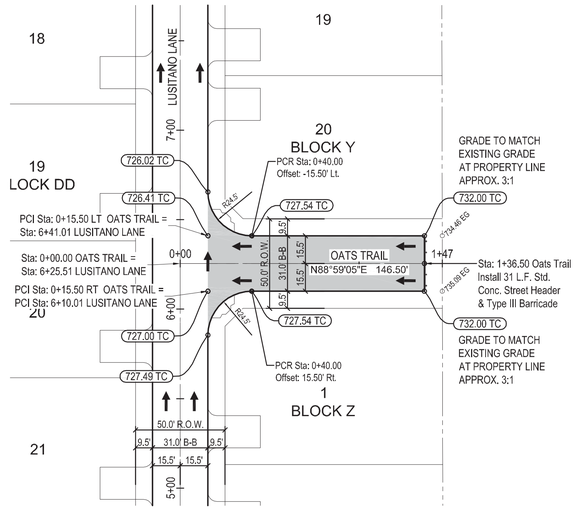
STATE OF TEXAS
DAVID M. SCHNURBUSCH
53904
REGISTERED PROFESSIONAL ENGINEER
7/28/15

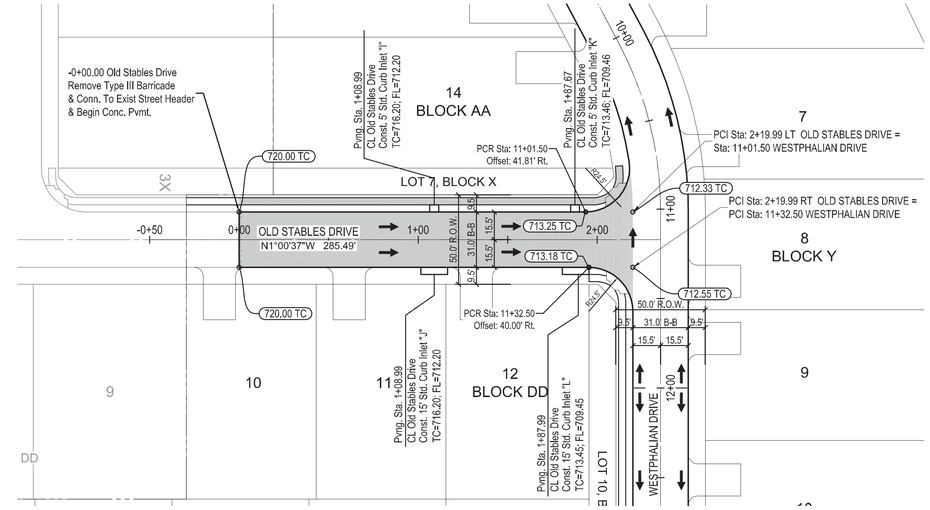
USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS
REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

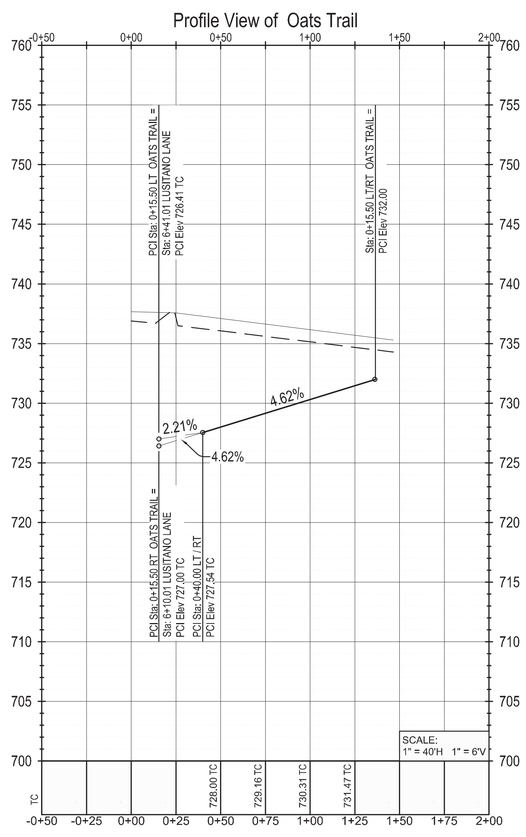
DATE: July 2015
SCALE: 1" = 40'H 1" = 6'V
SHEET: 34 OF 42
PROJECT NO. 2009016.03

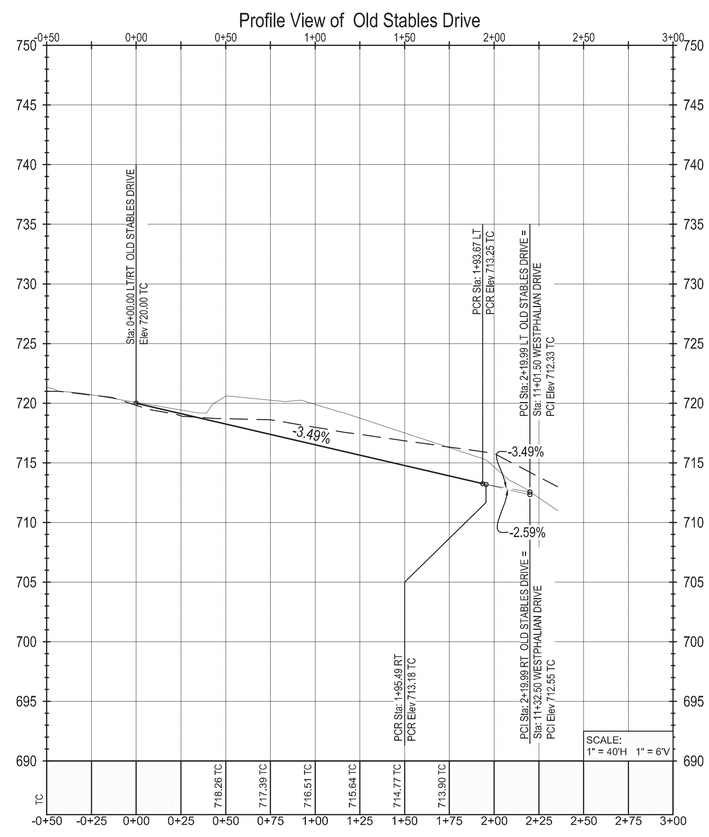
P:\Siskiengin\2009016.03\dwg\Section 2\ 2009016_03-Paving.dwg , WEST PHALIAN DRIVE 2-2, 8/3/2015 6:48:45 PM , James Gandella

P-201412-01









RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

LEGEND	
SYMBOL	DESCRIPTION
TC	Top of Curb
PCR	Curb Return
PCI	Point of Intersection
PVI	Point of Vertical Intersection
PVC	Point of Vertical Curve
PVT	Point of Vertical Tangency
LVC	Length of Vertical Curve
BVCS	Begin of Vertical Curve Station
EVCS	End of Vertical Curve Station

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

NOTE:
SEE SHEET 2 FOR GENERAL NOTES
SEE SHEETS 42 FOR DETAILS

BENCHMARKS

TBM #1= Centerline of existing sanitary manhole at the centerline intersection of Appaloosa Lane and Equine Lane located in "The Carter Ranch Phase IIA". Elevation = 687.57 feet

TBM #2 = "X" Found in concrete at the centerline intersection of Equine Lane and Old Stables Drive located in "The Carter Ranch Phase IIA". Elevation =728.63 feet

CM #5 = Concrete monument with 5/8 inch iron rod with cap stamped "Huitt-Zollars" at the Southeast corner of the intersection of State Highway 289 and County Road 88, located approximately 45' feet South of the centerline of County Road 88 and 112' feet East of the centerline of State Highway 289 Elevation = 681.76 feet

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CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

PAVING PLAN & PROFILE:
OATES TRAIL & OLD STABLE DRIVE

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
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53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

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SHEET: 35 OF 42
PROJECT NO. 2009016.03

P-201412-01

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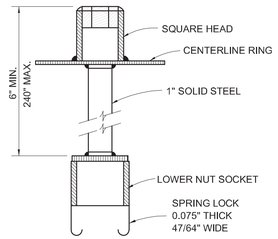
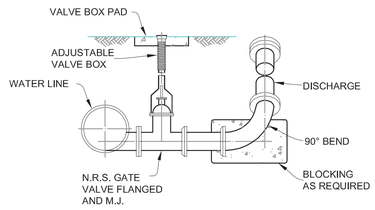
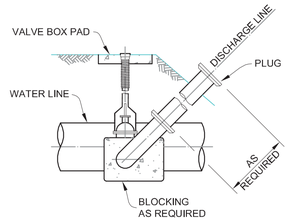


SPRING LOCK VALVE EXTENSION

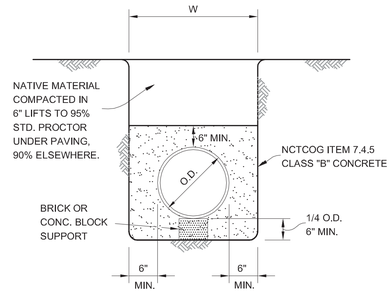
NO SCALE





BLOW OFF VALVE

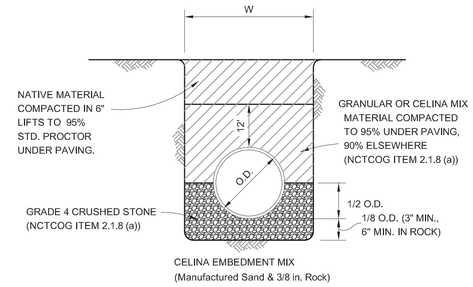
NO SCALE



CLASS G EMBEDMENT

CONCRETE ENCASEMENT

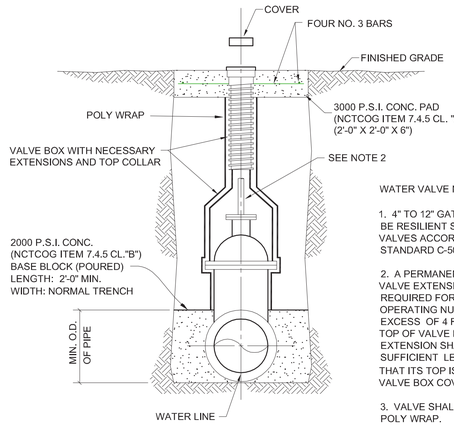
NO SCALE



CLASS B+ EMBEDMENT

STD PVC WATER

NO SCALE



WATER VALVE NOTES:

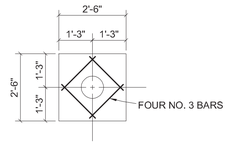
1. 4" TO 12" GATE VALVE SHALL BE RESILIENT SEATED WEDGE GATE VALVES ACCORDANCE WITH AWWA STANDARD C-509.

2. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHOSE OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4" OF THE VALVE BOX COVER.

3. VALVE SHALL BE WRAPPED IN POLY WRAP.

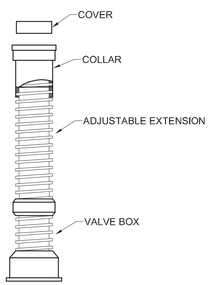
VALVE SETTING & BOX

NO SCALE



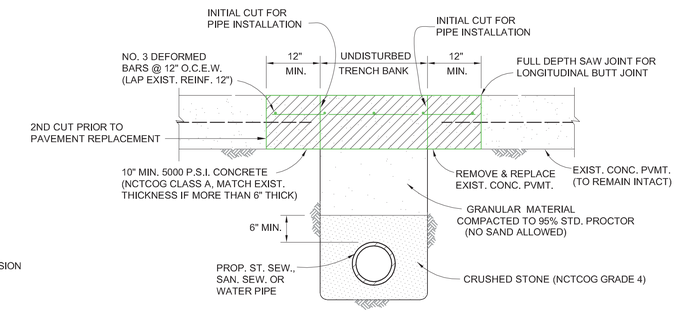
VALVE BOX PAD PLAN

NO SCALE



VALVE BOX WITH EXTENSION

NO SCALE

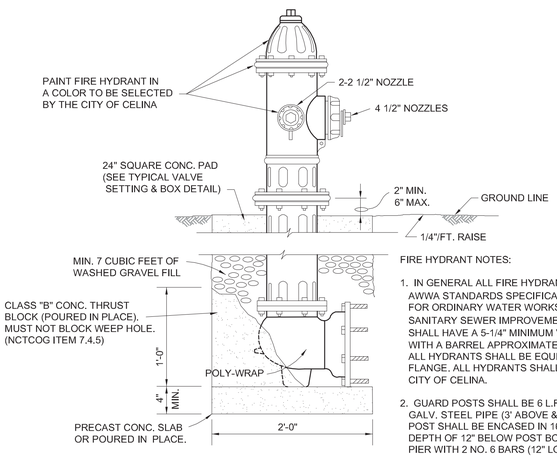


SECTION . (TITLE 30 TX CODE OF REGULATIONS)
WATER MAIN INSTALLATION

(C) WATER MAINS SHALL BE INSTALLED AT LEAST:
(1) TEN FEET HORIZONTALLY FROM AND 1 FOOT HIGHER THAN SANITARY SEWER MAINS LOCATED PARALLEL TO THE MAIN.
(2) ONE FOOT HIGHER THAN SANITARY SEWER MAINS CROSSING THE MAIN.

CONCRETE STREET REPAIR

NO SCALE

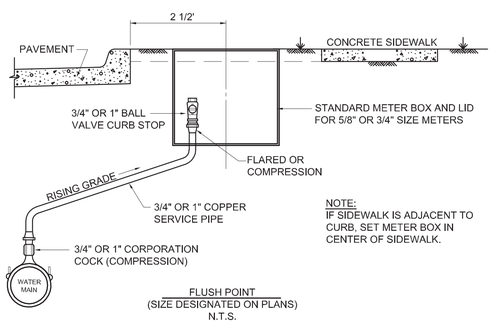


FIRE HYDRANT NOTES:

1. IN GENERAL ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARDS SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE FOR WATER AND SANITARY SEWER IMPROVEMENTS. FIRE HYDRANTS SHALL HAVE A 5-1/4" MINIMUM VALVE OPENING AND WITH A BARREL APPROXIMATELY 7" INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE. ALL HYDRANTS SHALL BE APPROVED BY THE CITY OF CELINA.

2. GUARD POSTS SHALL BE 6 L.F. OF 6" DIA. HOT DIPPED GALV. STEEL PIPE (3' ABOVE & BELOW GROUND LEVEL). POST SHALL BE ENCASED IN 16" DIA. CONC. PIER TO A DEPTH OF 12" BELOW POST BOTTOM. REINFORCE CONC. PIER WITH 2 NO. 6 BARS (12" LONG) THRU POST INTO PIER.

3. FIREHYDRANT SHALL BE PLACED A MINIMUM OF 3 FOOT FROM BACK OF CURVE TO THE CENTER. (DO NOT PLACE FIRE HYDRANT ON FUTURE SIDEWALK PATH).

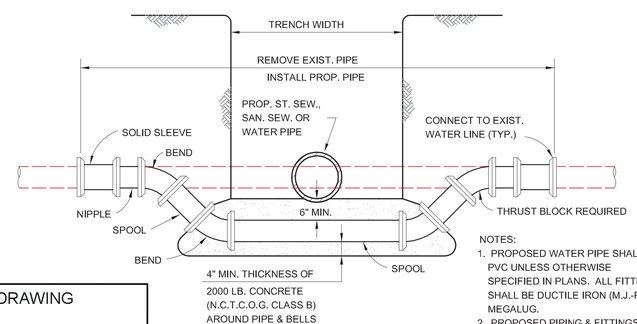


NOTE:
IF SIDEWALK IS ADJACENT TO CURB, SET METER BOX IN CENTER OF SIDEWALK.

FLUSH POINT
(SIZE DESIGNATED ON PLANS)
N.T.S.

FLUSH POINT INSTALLATION	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE	
TYPE "1"		DATE: NOV. '96	STANDARD DRAWING NO. 4110

4110



NOTES:
1. PROPOSED WATER PIPE SHALL BE PVC UNLESS OTHERWISE SPECIFIED IN PLANS. ALL FITTINGS SHALL BE DUCTILE IRON (M.J.-P.E.) MEGALUG.
2. PROPOSED PIPING & FITTINGS ARE SYMMETRIC ABOUT CENTER OF PROP. SAN. SEW. OR ST. SEW. PIPE AND SHALL RETAIN TEST PRESSURES.
3. ALL THRUST BLOCKING SHALL BE SUBSIDIARY TO UNIT PRICE.
4. CROSSING OF SANITARY SEWER SHALL BE IN ACCORDANCE WITH T.N.R.C.C. REQUIREMENTS. (CHAPTER 317.13 APPENDIX E)

WATER MAIN LOWERING

NO SCALE

RECORD DRAWING

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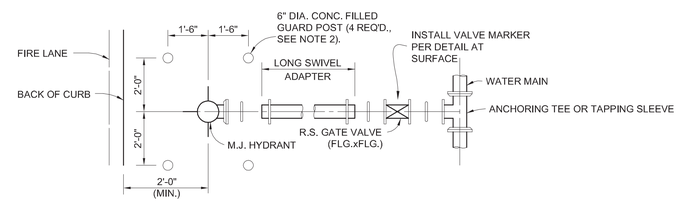
ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016



TYPICAL FIRE HYDRANT INSTALLATION

NO SCALE

CITY OF CELINA, TEXAS

WATER DISTRIBUTION SYSTEM

STANDARD DETAILS

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2

CITY OF CELINA, COLLIN COUNTY, TEXAS

WATER DETAILS

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53004
REGISTERED
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DATE: July 2015
SCALE: NOT TO SCALE
SHEET: 36 OF 42
PROJECT NO. 2009016.03

P-201412-01

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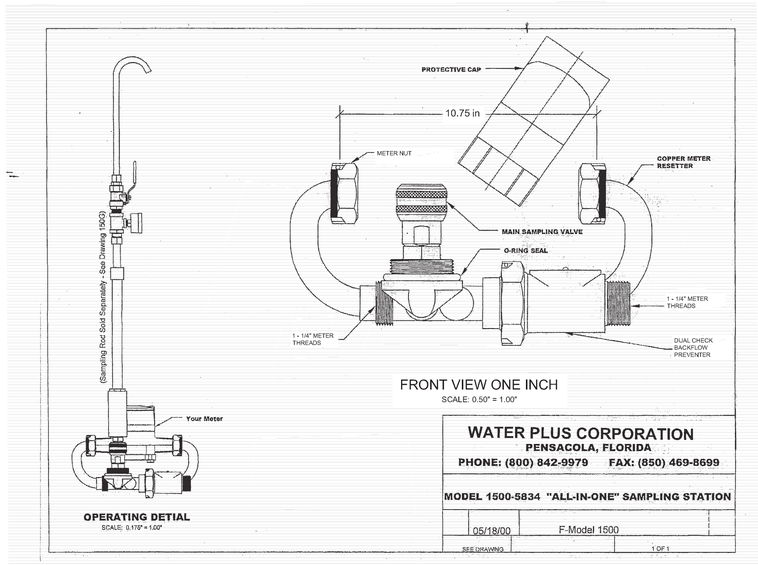
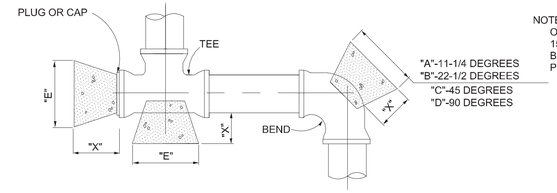
LOCATION OF SAMPLE STATION TO BE
DETERMINED BY PUBLIC WORKS DEPARTMENT





NOTE: ALL CALCULATIONS ARE BASED ON A WATER LINE PRESSURE OF 150 PSI AND AN ALLOWABLE SOIL BEARING VALUE OF 2,500 POUNDS PER SQUARE FOOT.

THESE ARE MINIMUM REQUIREMENTS. INCREASE AREA FOR CONDITIONS OTHER THAN THESE VALUES.

HORIZONTAL BLOCKING TABLE

PIPE SIZE	"X" DIM. IN. FT.	11-1/4 DEGREES		22-1/2 DEGREES		45 DEGREES		90 DEGREES		TEE & PLUG	
		"A"	MIN. AREA	"B"	MIN. AREA	"C"	MIN. AREA	"D"	MIN. AREA	"E"	MIN. AREA
4"	1.5	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.06	1.00	1.00
6"	1.5	1.00	1.00	1.00	1.00	1.14	1.30	1.55	2.40	1.30	1.70
8"	1.5	1.00	1.00	1.08	1.18	1.52	2.31	2.07	4.27	1.74	3.02
10"	1.5	1.00	1.00	1.35	1.84	1.90	3.61	2.58	6.66	2.17	4.71
12"	1.5	1.00	1.33	1.63	2.65	1.86	5.19	3.10	9.60	2.61	6.79
14"	1.5	1.03	1.81	1.90	3.60	2.66	7.07	3.61	13.06	3.04	9.24
16"	2.0	1.18	2.36	2.17	4.71	3.04	9.23	4.13	17.06	3.47	12.06
18"	2.0	1.33	2.99	2.44	5.96	3.42	11.69	4.65	21.59	3.91	15.27
20"	2.0	1.48	3.70	2.71	7.35	3.80	14.43	5.16	26.66	4.34	18.85
21"	2.0	1.55	4.07	2.85	8.11	3.99	15.91	5.42	29.39	4.56	20.78
24"	2.0	1.77	5.32	3.25	10.59	4.56	20.77	6.20	38.39	5.21	27.14
27"	2.5	1.99	6.73	3.66	13.40	5.13	26.29	6.97	48.58	5.86	34.35
30"	2.5	2.22	8.31	4.07	16.55	5.70	32.46	7.74	59.98	6.51	42.41
33"	2.5	2.44	10.06	4.47	20.02	6.27	39.28	8.52	72.57	7.16	51.31
36"	2.5	2.66	11.97	4.88	23.83	6.84	46.74	9.29	86.37	7.81	61.07
39"	3.0	2.88	14.05	5.29	27.97	7.41	54.86	10.07	101.36	8.47	71.68
42"	3.0	3.10	16.30	5.69	32.43	7.98	63.62	10.85	117.56	9.12	83.13

NOTE: CLASS "B" CONCRETE 2,000 PSI SHALL BE USED FOR ALL BLOCKING UNLESS OTHERWISE NOTED ON STANDARD DETAILS AND / OR PLANS.

THE MINIMUM VERTICAL DIMENSION OF ALL BLOCKING SHALL BE 1.5 TIMES THE PIPE DIAMETER WITH AT LEAST 0.75 TIMES THE PIPE DIAMETER EXTENDING BOTH ABOVE AND BELOW THE PIPE CENTERLINE. THIS DIMENSION DETERMINES THE "A" DIMENSION FOR 11-1/4" BENDS.

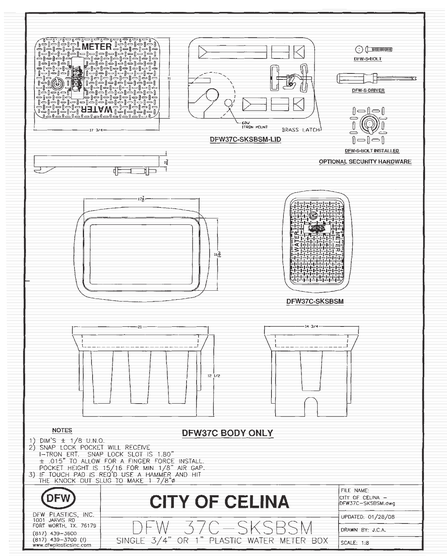
FOR 22-1/2°, 45 , 90 , AND TEES AND PLUGS, THE VERTICAL DIMENSION SHALL BE EQUAL TO THE HORIZONTAL DIMENSION SHOWN TO PRODUCE THE REQUIRED MINIMUM AREA.

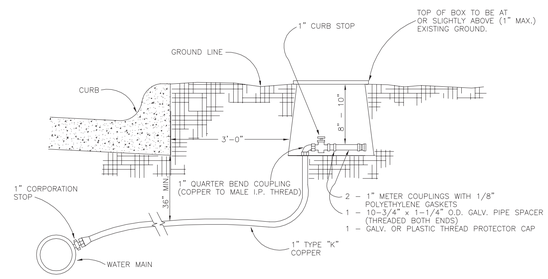
ALL MINIMUM AREAS ARE IN SQUARE FEET.

BLOCKING TO BE AGAINST UNDISTURBED TRENCH WALLS AND BOTTOM.

HORIZONTAL THRUST BLOCKING DETAIL

NO SCALE





1" WATER SERVICE DETAIL

No Scale

RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

CITY OF CELINA, TEXAS

WATER DISTRIBUTION SYSTEM
STANDARD DETAILS

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

WATER DETAILS

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
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Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53904
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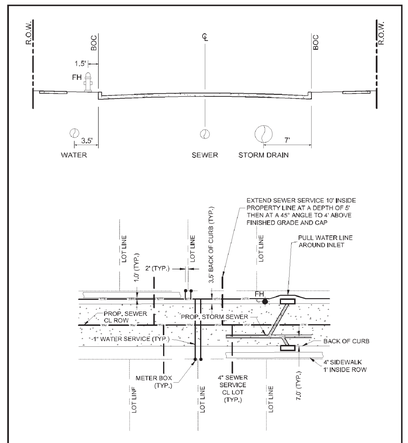
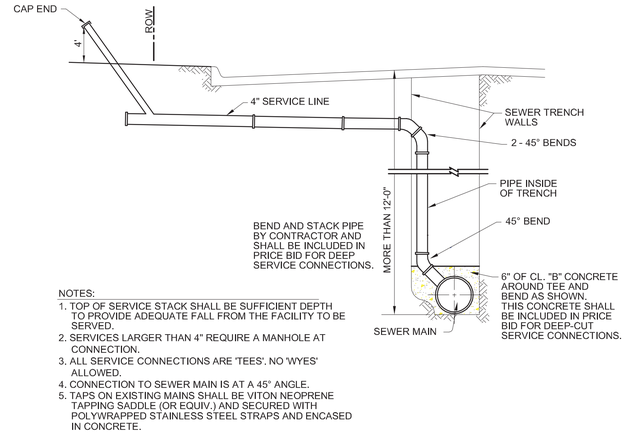
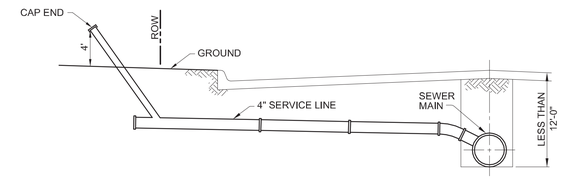




NOTES:
1. TOP OF SERVICE STACK SHALL BE SUFFICIENT DEPTH TO PROVIDE ADEQUATE FALL FROM THE FACILITY TO BE SERVED.
2. SERVICES LARGER THAN 4" REQUIRE A MANHOLE AT CONNECTION.
3. ALL SERVICE CONNECTIONS ARE 'TEES'. NO 'WYES' ALLOWED.
4. CONNECTION TO SEWER MAIN IS AT A 45° ANGLE.
5. TAPS ON EXISTING MAINS SHALL BE VITON NEOPRENE TAPPING SADDLE (OR EQUIV.) AND SECURED WITH POLYWRAPPED STAINLESS STEEL STRAPS AND ENCASED IN CONCRETE.

DEEP-CUT SEWER SERVICE

NTS



STANDARD SEWER SERVICE

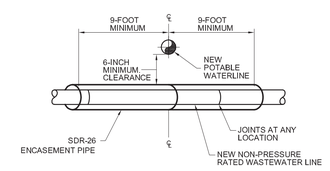
NTS

SANITARY SEWER AND WATER LINE CROSSING DETAILS

CASE 2

NEW WATER LINE OVER NEW NONPRESSURE RATED SEWER LINE
6" TO 2' VERTICAL SEPARATION

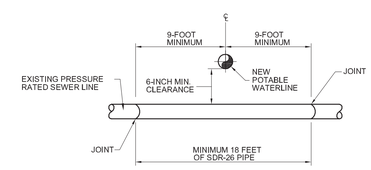
ALL SECTIONS OF WASTEWATER MAIN OR LATERAL WITHIN NINE FEET HORIZONTALLY OF THE WATERLINE SHALL BE ENCASED IN AN 18-FOOT (OR LONGER) SECTION OF PIPE. FLEXIBLE ENCASING PIPE SHALL HAVE A MINIMUM PIPE STIFFNESS OF 115 PSI AT 5.0% DEFLECTION. THE ENCASING PIPE SHALL BE CENTERED ON THE WATERLINE AND SHALL BE AT LEAST TWO NOMINAL PIPE DIAMETERS LARGER THAN THE WASTEWATER MAIN OR LATERAL. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE-FOOT (OR LESS) INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. EACH END OF THE CASING SHALL BE SEALED WITH WATERTIGHT NON-SHRINK CEMENT GROUT OR A MANUFACTURED WATERTIGHT SEAL. AN ABSOLUTE MINIMUM SEPARATION DISTANCE OF SIX INCHES BETWEEN THE ENCASEMENT PIPE AND THE WATERLINE SHALL BE PROVIDED. THE WASTEWATER LINE SHALL BE LOCATED BELOW THE WATERLINE.(§290.44(e)(4)(B)(iv)(II))

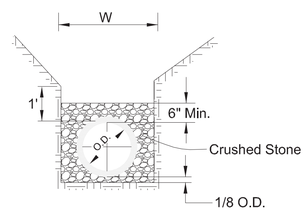


CASE 7

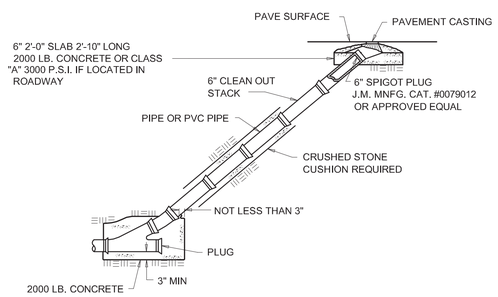
NEW WATER LINE OVER EXISTING PRESSURE RATED SEWER LINE

WHERE A NEW POTABLE WATERLINE CROSSES AN EXISTING, PRESSURE RATED WASTEWATER MAIN OR LATERAL, ONE SEGMENT OF THE WATERLINE PIPE SHALL BE CENTERED OVER THE WASTEWATER MAIN OR LATERAL SUCH THAT THE JOINTS OF THE WATERLINE PIPE ARE EQUIDISTANT AND AT LEAST NINE FEET HORIZONTALLY FROM THE CENTERLINE OF THE WASTEWATER MAIN OR LATERAL. THE POTABLE WATERLINE SHALL BE AT LEAST SIX INCHES ABOVE THE WASTEWATER MAIN OR LATERAL. WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN THE JOINTS OF THE WASTEWATER MAIN OR LATERAL. IF THE EXISTING WASTEWATER MAIN OR LATERAL SHOWS SIGNS OF LEAKING, IT SHALL BE REPLACED FOR AT LEAST NINE FEET IN BOTH DIRECTIONS (18 FEET TOTAL) WITH AT LEAST 150 PSI PRESSURE RATED PIPE (§290.44(e)(4)(B)(ii)).



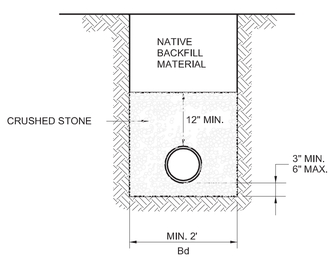


CLASS H EMBEDMENT
P.V.C. PIPE ONLY
STD. P.V.C. SEWER INSTALLATION
STD. P.V.C., R.C.P. & DUCTILE WATER INSTALLATION.



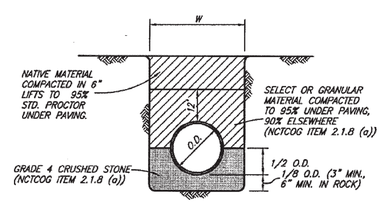
STANDARD CLEANOUT

NTS



CLASS "4" WASTEWATER EMBEDMENT

NTS



CLASS B+ EMBEDMENT

STD PVC WATER OR D.I.P.

GENERAL NOTES:

1) ENCASEMENT PIPE SHALL MEET THE FOLLOWING REQUIREMENTS:
   -SDR-26 OR 150 PSI PRESSURE CLASS PIPE AS NOTED
   -MINIMUM 18 FEET LONG
   -DIAMETER OF ENCASEMENT PIPE = DIAMETER OF CARRIER PIPE + 2 NOMINAL PIPE SIZES MINIMUM (EXAMPLE: 8" CARRIER NEEDS 12" ENCASEMENT)
   -SPACE AROUND CARRIER PIPE SHALL BE SUPPORTED AT MINIMUM 5 FEET INTERVALS WITH SPACERS, OR FILLED TO SPRINGLINE WITH WASHED SAND
   -ENCASEMENT PIPE SHALL BE CENTERED ON THE CROSSING
   -BOTH ENDS TO BE SEALED WITH CEMENT GROUT OR A MANUFACTURED WATER-TIGHT SEAL
2) CEMENT STABILIZED SAND EMBEDMENT SHALL MEET THE FOLLOWING:
   -MINIMUM 2.5 BAGS OF CEMENT PER C.Y. OF MIXTURE
   -MINIMUM EMBEDMENT THICKNESS IS TO BE AS FOLLOWS: 6" ABOVE, 4" BELOW AND 6" ON THE SIDES OF THE PIPE
   -EMBEDMENT SHALL EXTEND A MINIMUM OF 12" BEYOND PIPE JOINTS ON EACH END
3) SDR 26 SEWER PIPE MEETS THE T.N.R.C.C. STIFFNESS REQUIREMENT OF 115 PSI AT 5% DEFLECTION
4) WHERE LEAKAGE/NO LEAKAGE OF EXISTING SEWERS MUST BE DETERMINED, IT SHALL BE BY A LICENSED TEXAS PROFESSIONAL ENGINEER
5) 18' MINIMUM LENGTH PIPE OR ENCASEMENT SEGMENTS MUST BE CENTERED ON THE CROSSING (JOINTS 9' FROM THE CROSSING)
6) THESE DETAILS AND NOTES ARE INTENDED TO COMPLY WITH THE T.N.R.C.C. CHAPTER 290 (WATER) DATED FEBRUARY 2004, AND DRAFT CHAPTER 217 (SEWER) RULE LOG 95100-317-WT
7) WHERE ENCASEMENT PIPE IS SPECIFIED, CLEARANCES ARE MEASURED FROM THE ENCASEMENT PIPE NOT THE CARRIER PIPE
8) PIPE MEETING AWWA C900 OR C905 DR-18 MINIMUM WILL MEET THE T.N.R.C.C. REQUIREMENTS FOR 150 PSI PIPE, THIS PIPE MAY BE SUBSTITUTED FOR SDR-26 PIPE

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

SANITARY SEWER DETAILS

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

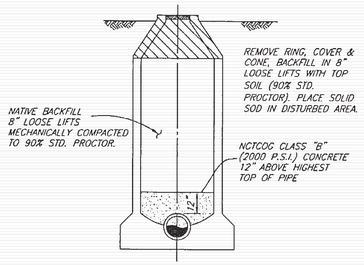
STATE OF TEXAS
DAVID M. SCHNURBUSCH
53004
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1945
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: NOT TO SCALE
SHEET: 38 OF 42
PROJECT NO. 2009016.03

P:\Sdskengn\2009016.03\dwg\Section 2\ 2009016_03-sscd.dwg, 11/12/2009 10:46:18 AM , James Gardella

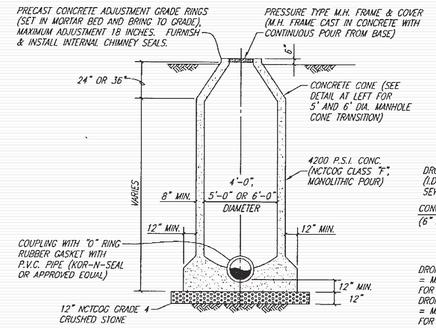
P-201412-01



MANHOLE ABANDONMENT

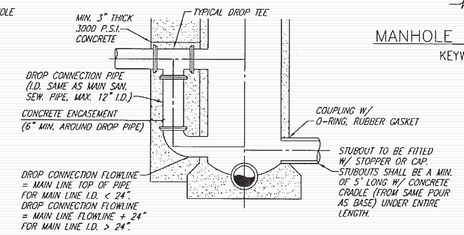
OUTSIDE PAVEMENT AREA

(MHABAN)



STANDARD MANHOLE ELEVATION

4', 5' & 6' DIAMETER MANHOLES

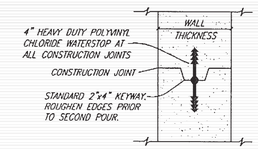


DROP MANHOLE ELEVATION

4', 5' & 6' DIAMETER MANHOLES

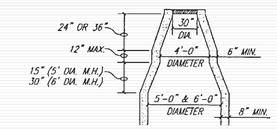
SANITARY SEWER MANHOLE (CAST IN PLACE)

NO SCALE



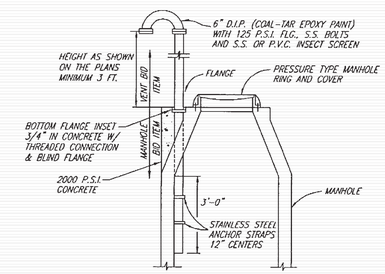
MANHOLE CONSTRUCTION JOINT

KEYWAY WITH WATERSTOP



CONE TRANSITION

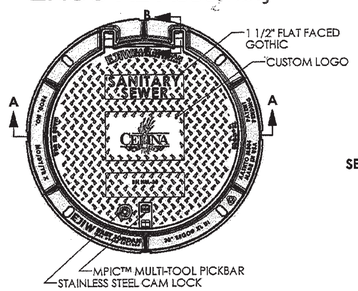
5' & 6' DIAMETER MANHOLES ONLY

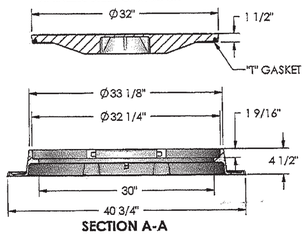


CONE TOP MANHOLE VENT

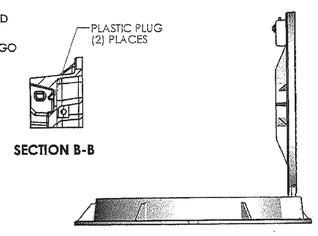
NO SCALE

ERGO XL Assembly



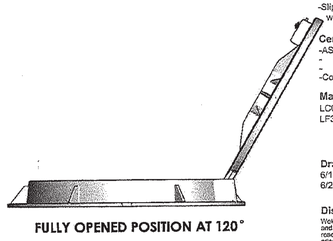


SECTION A-A



SECTION B-B

SAFETY LOCK & REMOVAL POSITION AT 90°



FULLY OPENED POSITION AT 120°

ej

Product Number
00148038L01

Design Features
-Materials
Cover
Ductile Iron (80-55-06)
Frame
Ductile Iron (80-55-06)

-Design Load
Heavy Duty
-Open Area
n/a
-Coating
Undipped
-√ Designates Machined Surface
-Slip Resistant Surface
with the LLLL® registered trademark

Certification
-ASTM A536
-
-Country of Origin: USA

Major Components
LC00148038
LF300454075

Drawing Revision
6/18/2012 Designer: SDC
6/25/2012 Revised By: SDC

Disclaimer
Weights (lbs/kg), dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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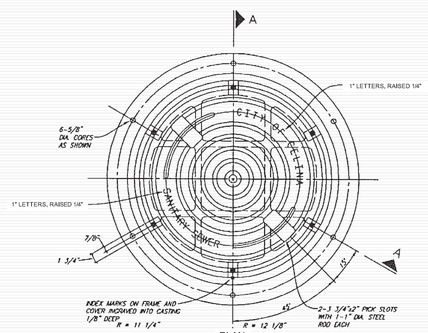
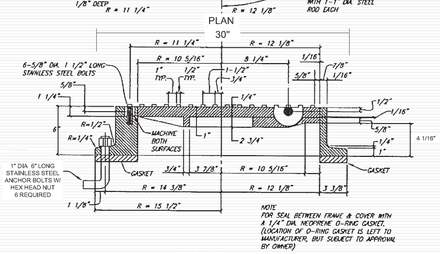
Contact
800.626.4653
ejco.com



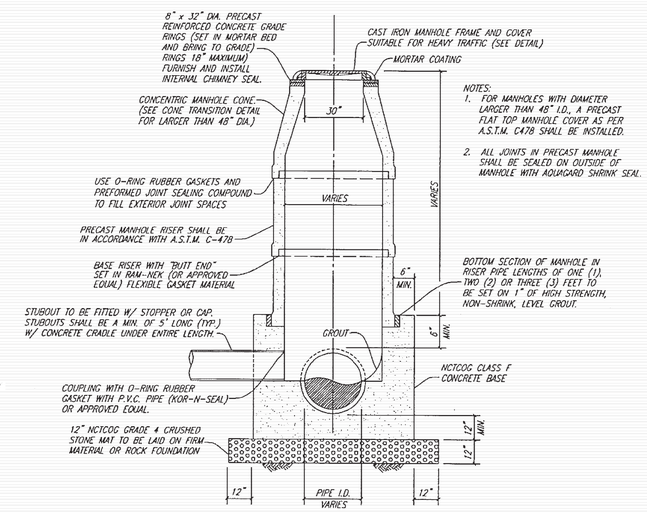
PLAN



SECTION A–A

TYPE "S" MANHOLE FRAME AND COVER

NO SCALE



NOTES:
1. FOR MANHOLES WITH DIAMETER LARGER THAN 48" I.D., A PRECAST FLAT TOP MANHOLE COVER AS PER A.S.T.M. C478 SHALL BE INSTALLED.
2. ALL JOINTS IN PRECAST MANHOLE SHALL BE SEALED ON OUTSIDE OF MANHOLE WITH ADHAGARD SHRINK SEAL.

PRECAST CONCRETE MANHOLE

NO SCALE

RECORD DRAWING

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ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

SANITARY SEWER DETAILS

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53904
LICENSED PROFESSIONAL ENGINEER
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SCALE: NOT TO SCALE
SHEET: 39 OF 42
PROJECT NO. 2009016.03

P-201412-01

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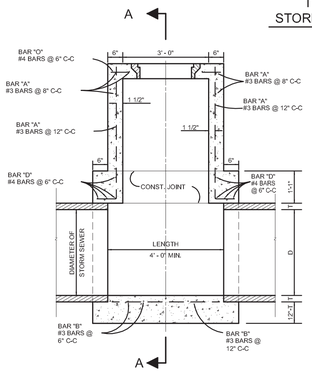
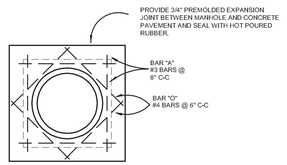


ELEVATION

N.T.S.



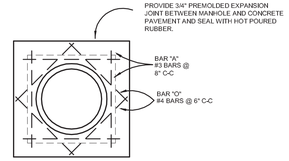
NOTE :
FRAME AND COVER SHALL BE BASS & HAYES PATTERN NO. 400-24 OR EQUAL AND SHALL BE GRAY CAST IRON CONFORMING TO ASTM SPEC. A-48 FOR CLASS 30 CAST IRON.

TOP PLAN
TYPE A & TYPE B
STORM SEWER MANHOLE

NOTE : MAXIMUM PIPE SIZE TO BE USED 78"Ø

N.T.S.

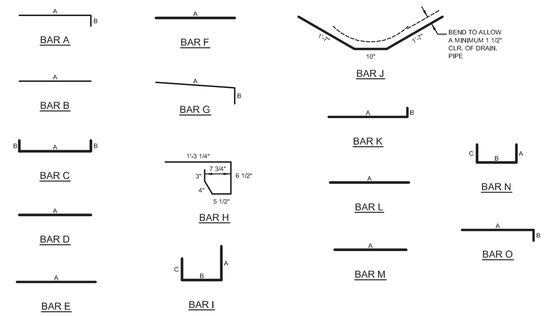
NOTE :
FRAME AND COVER SHALL BE BASS & HAYES PATTERN NO. 380-24 OR EQUAL AND SHALL BE GRAY CAST IRON CONFORMING TO ASTM SPEC. A-48 FOR CLASS 30 CAST IRON.



TOP PLAN
TYPE A & TYPE B
STORM SEWER MANHOLE

NOTE : MAXIMUM PIPE SIZE TO BE USED 78"Ø

N.T.S.



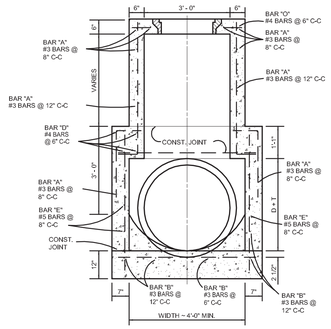
BAR DIAGRAMS

REINFORCING STEEL SCHEDULE

DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLETS

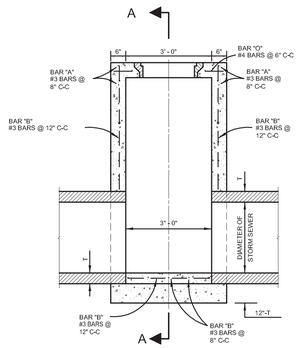
INLET LENGTH	BAR TYPE	BAR DIA. (1/8")	NO. REQ'D.	BAR DIMENSIONS		
				A	B	C
10'	A	3	10	3'-2"	0'-3"	–
	B	3	2	8'-10"	–	–
	C	4	16	10'-8"	0'-6"	–
	D	4	4	4'-8"	–	–
	E	5	6	10'-8"	–	–
	F	4	5	1'-2"	–	–
	G	3	5	2'-0"	1'-3"	–
	H	3	15	*	*	*
	I	4	8	4'-8"	3'-2"	3'-2"
	J	5	1	*	*	*
	K	5	4	3'-2"	0'-6"	*
	L	4	5	3'-2"	*	*
	M	4	2	3'-0"	*	*
	N	4	2	4'-8"	3'-2"	4'-8"
12'	A	3	15	3'-2"	0'-6"	–
	B	3	2	11'-6"	–	–
	C	4	16	13'-4"	0'-6"	–
	D	4	9	4'-8"	–	–
	E	5	6	13'-4"	–	–
	F	4	5	1'-2"	–	–
	G	3	12	2'-0"	1'-3"	–
	H	3	26	*	*	*
	I	4	12	4'-8"	3'-2"	3'-2"
	J	5	1	*	*	*
	K	5	6	3'-2"	0'-6"	–
	L	4	11	3'-2"	*	–
	M	4	2	3'-0"	*	*
	N	4	2	4'-8"	3'-2"	4'-8"

* SEE DIAGRAM FOR DIMENSIONS



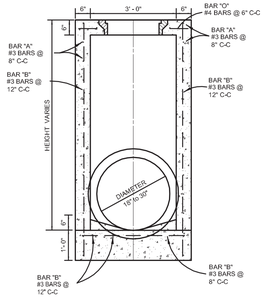
SECTION A-A

N.T.S.



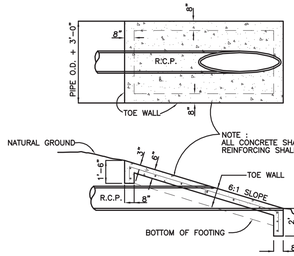
ELEVATION

N.T.S.



SECTION A-A

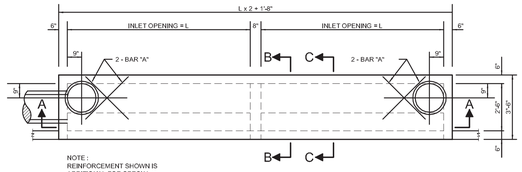
N.T.S.



NOTE :
ALL CONCRETE SHALL BE 3000 P.S.I. AND REINFORCING SHALL BE #3 BARS @ 18" O.C.E.W.

TYPICAL SLOPED END HEADWALL

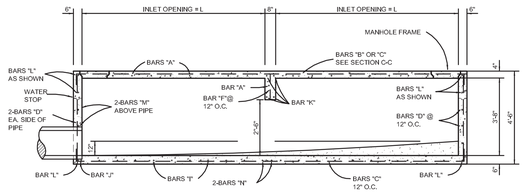
NTS



NOTE :
REINFORCEMENT SHOWN IS ADDITIONAL FOR SPECIAL CONDITION. FOR REMAINDER OF REINFORCEMENT SEE SECTIONS.

PLAN

N.T.S.



NOTE: CAST-IN-PLACE INLETS TO BE MIN. 4200 PSI CONCRETE.

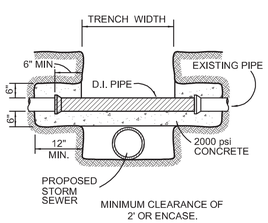
SECTION A-A

N.T.S.

RECORD DRAWING

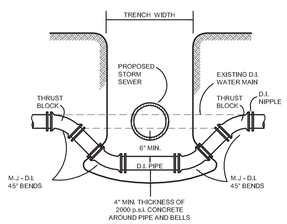
ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.
DATE: 10/03/2016



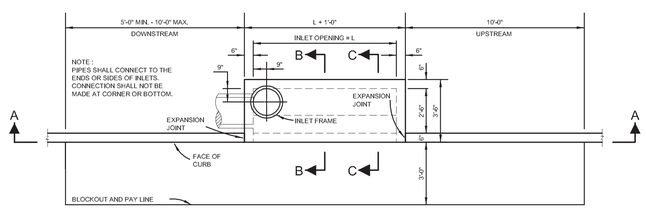
DETAIL OF
UTILITY SUPPORT

N.T.S.



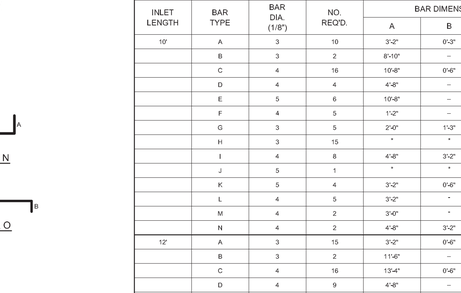
DETAIL FOR
WATER MAIN LOWERING

N.T.S.



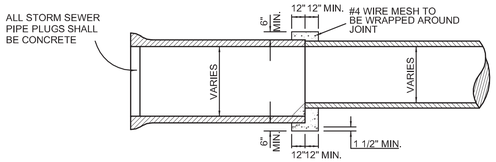
PLAN - STANDARD INLET

N.T.S.



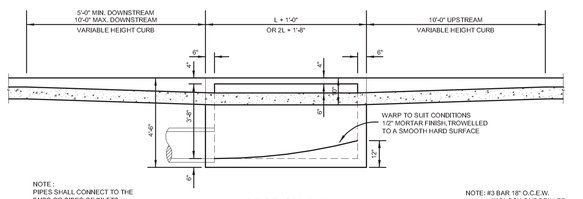
STORM SEWER PIPE BEDDING

N.T.S.



DETAIL OF CONCRETE COLLAR
FOR PIPE CONNECTIONS

N.T.S.



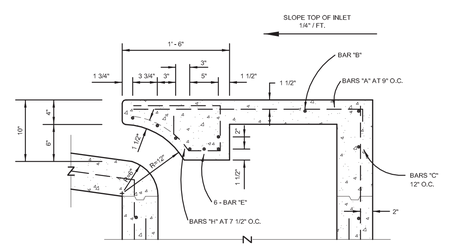
NOTE :
PIPES SHALL CONNECT TO THE ENDS OR SIDES OF INLETS. CONNECTION SHALL NOT BE MADE AT CORNER OR BOTTOM.

SECTION A-A

N.T.S.

NOTE: CAST-IN-PLACE INLETS TO BE MIN. 4200 PSI CONCRETE.

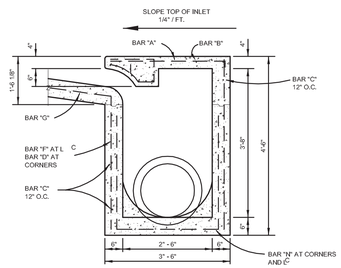
NOTE: #3 BAR 18" O.C.E.W. IN BLOCK OUT DRILLED INTO EXISTING CONCRETE.



SECTION C-C

N.T.S.

NOTE: CAST-IN-PLACE INLETS TO BE MIN. 4200 PSI CONCRETE.



SECTION B-B

N.T.S.

THE CARTER RANCH - PHASE IIC, SECTION 2

CITY OF CELINA, COLLIN COUNTY, TEXAS

STORM SEWER DETAILS

CTMGT CR2C FL-2 LLC.
1800 Valley View Lane, Suite 300
Farmers Branch, Texas 75234
Phone (469) 892-7200 Fax (469) 892-7201

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

STATE OF TEXAS
DAVID M. SCHNURBUSCH
53604
REGISTERED PROFESSIONAL ENGINEER
7/28/15

USA PROFESSIONAL SERVICES GROUP, INC.
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTERED ENGINEERING FIRM F-1845
CIVIL ENGINEERS • SURVEYORS
PLANNERS • LANDSCAPE ARCHITECTS
1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015

SCALE: NOT TO SCALE

SHEET: 40 OF 42

PROJECT NO. 2009016.03

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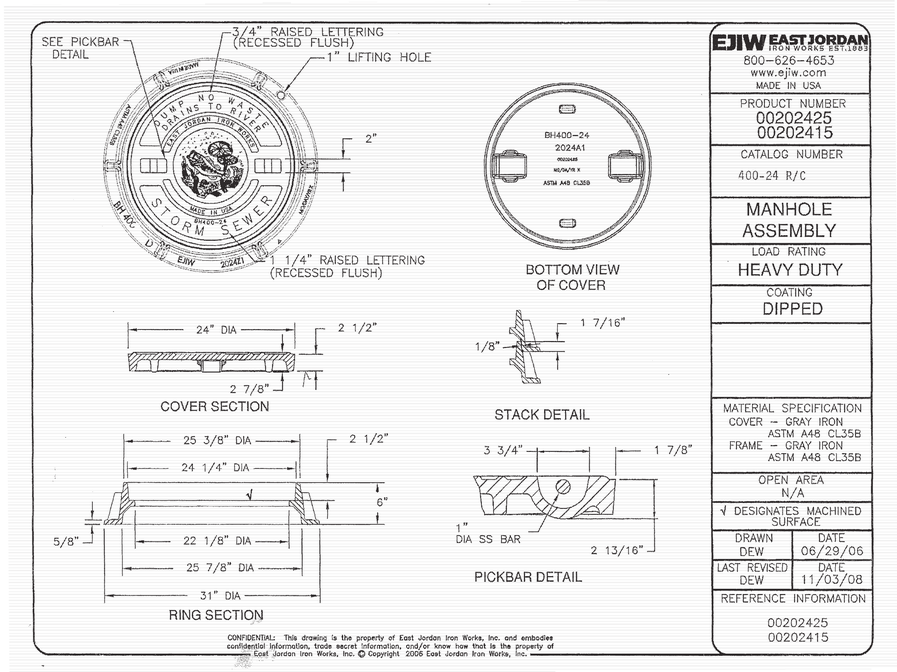
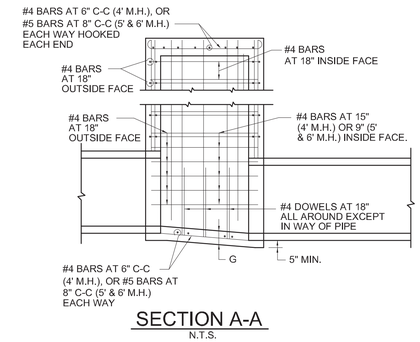
P-201412-01

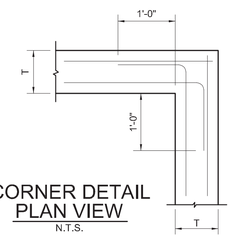


EJIW EAST JORDAN IRON WORKS EST.1883
800-626-4653
www.ejiw.com
MADE IN USA

PRODUCT NUMBER	00202425 00202415
CATALOG NUMBER	400-24 R/C
	MANHOLE ASSEMBLY
LOAD RATING	HEAVY DUTY
COATING	DIPPED
MATERIAL SPECIFICATION	COVER – GRAY IRON ASTM A48 CL35B FRAME – GRAY IRON ASTM A48 CL35B
OPEN AREA	N/A
√ DESIGNATES MACHINED SURFACE	
DRAWN DEW	DATE 06/29/06
LAST REVISED DEW	DATE 11/03/08
REFERENCE INFORMATION	00202425 00202415



SECTION A-A
N.T.S.

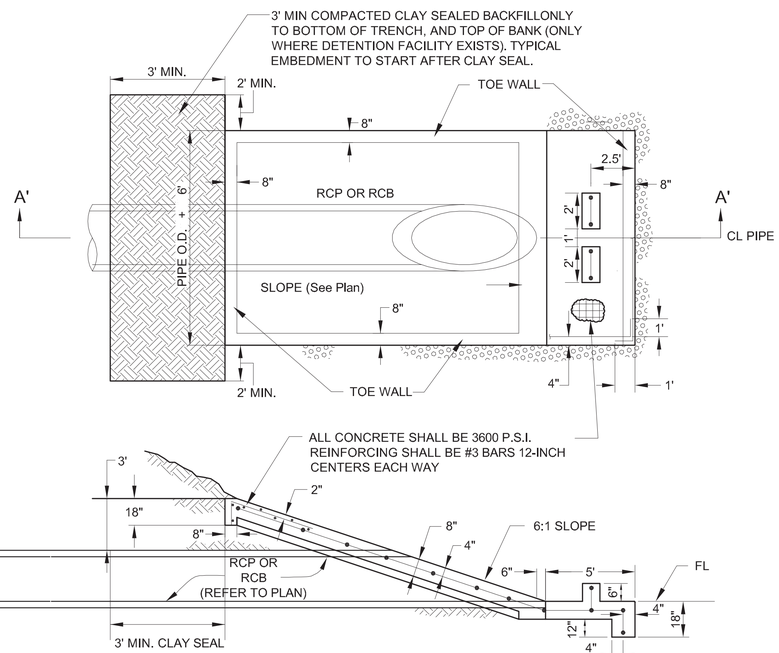


CORNER DETAIL
PLAN VIEW
N.T.S.

NOTES:

1. SLOPE INVERT OF MANHOLE AS INDICATED ON PLAN-PROFILE SHEET.
2. LAYERS OF REINFORCING STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACE SHALL HAVE A COVER OF 2" TO THE CENTER OF BARS, UNLESS OTHERWISE NOTED.
3. CONCRETE SHALL BE CLASS "A".

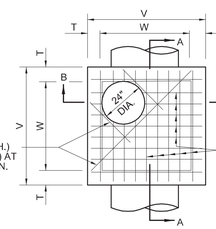
STORMWATER MANHOLE	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 6.7.	
4', 5', OR 6' SQUARE		DATE NOV. '96	STANDARD DRAWING NO. 6010B



SECTION A-A

SLOPED END HEADWALL DETAIL WITH VELOCITY DISSIPATORS
- SEE DESIGN PLANS FOR LOCATIONS

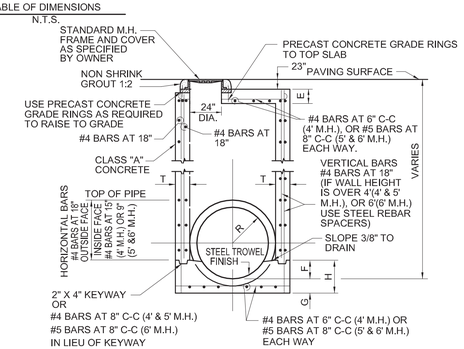
NO SCALE



PLAN
N.T.S.

M.H. SIZE(W)	V	T	E	F	G	H
4'	5'-4"	8"	6"	9"	6"	1'-3"
5'	6'-4"	8"	6"	12"	8"	1'-8"
6'	7'-6"	9"	9"	16"	10"	2'-2"

TABLE OF DIMENSIONS
N.T.S.



SECTION B-B
N.T.S.

STORMWATER MANHOLE	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 6.7.	
4', 5', OR 6' SQUARE		DATE NOV. '96	STANDARD DRAWING NO. 6010A

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR, ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

REV	DESCRIPTION	DATE

CITY OF CELINA PLAN NUMBER P-201412-01

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

STORM SEWER DETAILS

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STATE OF TEXAS
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7/28/15

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1525 VICEROY DRIVE
DALLAS, TEXAS 75235
(214) 634-3300 FAX (214) 634-3338

DATE: July 2015
SCALE: NOT TO SCALE
SHEET: 41 OF 42
PROJECT NO. 2009016.03

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RECORD DRAWING

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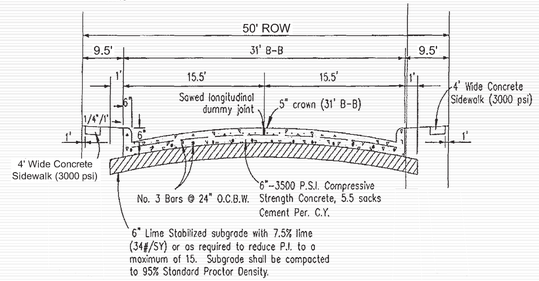
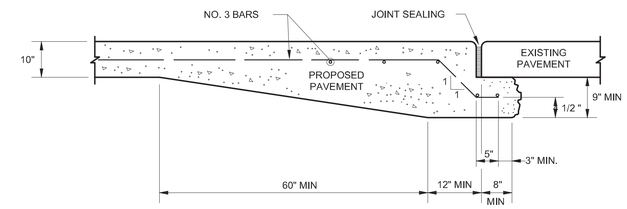
ANGEL PEREZ
USA PROFESSIONAL SERVICES GROUP, INC.

DATE: 10/03/2016

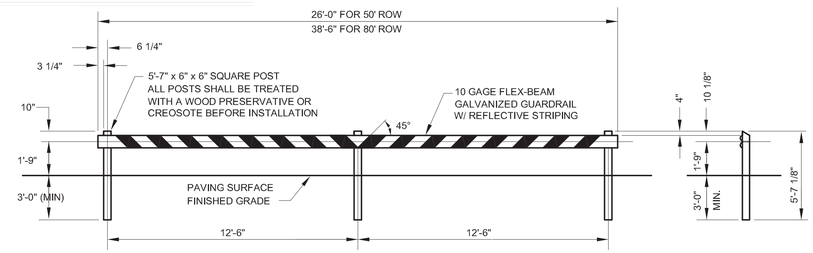
Street Pavement Detail



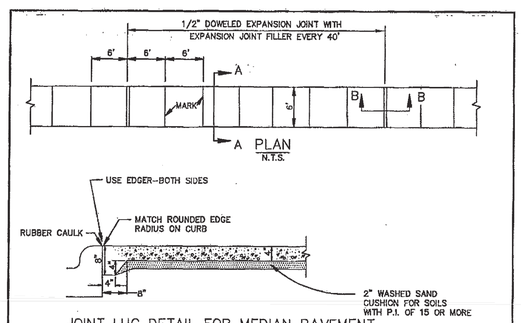
CITY OF CELINA
STREET PAVEMENT DETAIL
(MODIFIED)



UNDERCUT STREET HEADER DETAIL
NTS

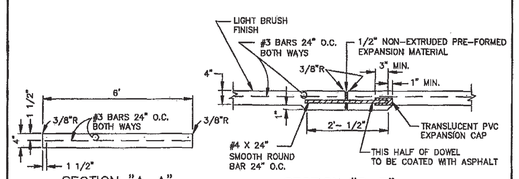


TEMPORARY BARRICADE DETAIL
NTS



A PLAN
N.T.S.

JOINT LUG DETAIL FOR MEDIAN PAVEMENT OR SIDEWALK ADJACENT TO CURB
N.T.S.

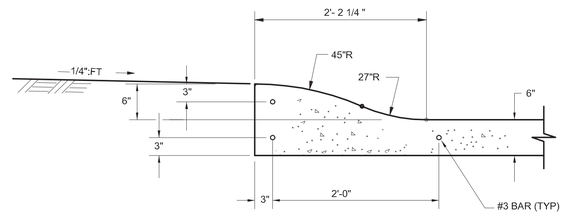


SECTION "A-A"
N.T.S.

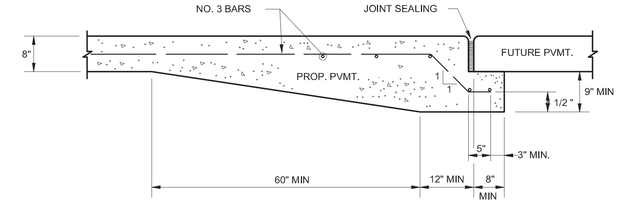
SECTION "B-B"
N.T.S.

NOTE:
1. REFER TO STANDARD SPECIFICATION ITEM 305.2 FOR ALTERNATE REINFORCEMENT.
2. CROSS SLOPE OF SIDEWALK SHALL BE ± 1/4" PER FT. MIN. TO ± 3/8" PER FT. MAX.
3. OTHER THAN 6'-0" SIDEWALK WIDTH MAY BE SPECIFIED BY OWNER.
4. SIDEWALK SHALL BE CLASS "A" CONCRETE UNLESS OTHERWISE SPECIFIED BY OWNER.
5. ALL HONEYCOMB IN BACK OF CURB TO BE TROWEL-PLASTERED BEFORE POURING SIDEWALK.
6. LUG MAY BE FORMED BY SHAPING SUBGRADE TO APPROXIMATE DIMENSIONS SHOWN.

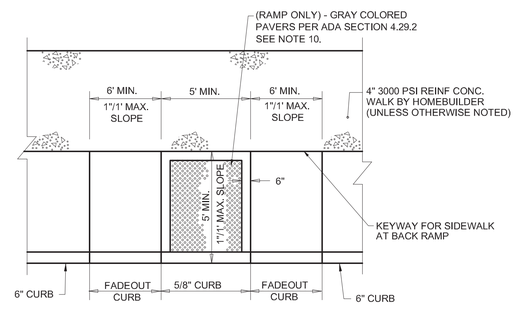
REINFORCED CONCRETE SIDEWALKS	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 305.2	
JOINTS AND SPACING		DATE OCT. '04	STANDARD DRAWING NO. 2170



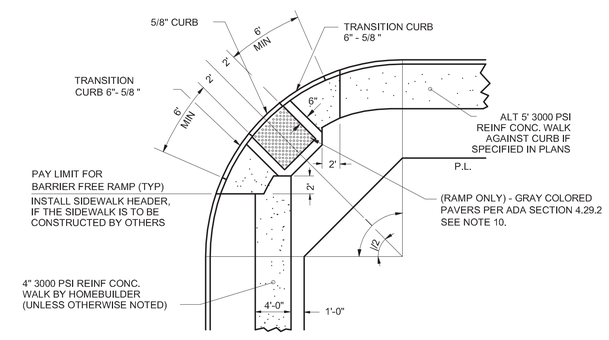
"MODIFIED" MOUNTABLE CURB
NTS



MODIFIED STREET HEADER DETAIL
NTS



BARRIER FREE RAMP IN STRAIGHT CURB
SIDEWALK ADJACENT TO CURB



DEPRESSED CURB AT STREET INTERSECTION
NTS

REV	DESCRIPTION	DATE

THE CARTER RANCH - PHASE IIC, SECTION 2
CITY OF CELINA, COLLIN COUNTY, TEXAS

PAVING DETAILS

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SCALE: NOT TO SCALE
SHEET: 42 OF 42
PROJECT NO. 2009016.03

CITY OF CELINA PLAN NUMBER P-201412-01

P-201412-01

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