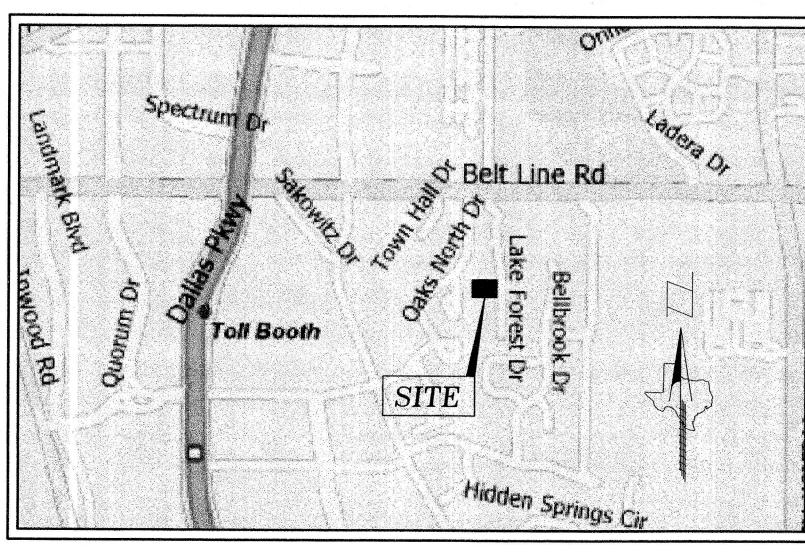
LOT 1B, MILLIKEN ADDITION VICTOR MEYER CUSTOM HOMES, LLC MICHAEL AND RACHEL HARDIN 14905 LAKE FOREST DRIVE ADDISON, TEXAS PW#2006-04

GENERAL NOTES

- ALL TOPOGRAPHIC AND BOUNDARY SURVEY INFORMATION, INCLUDING ALL EXISTING CONDITIONS AND PROPERTY LIMITS WAS PROVIDED BY DOUG CONNALLY AND ASSOCIATES THROUGH TOM PRITCHETT.
- DURING ALL PHASES OF THE CONSTRUCTION, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE (INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY) , IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES.
- 3. THE GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING ALL CONSTRUCTION PHASES OF THIS PROJECT.
- 4. ALL DEBRIS, WASTE, AND OTHER MATERIALS CREATED AS A RESULT OF CONSTRUCTION, SHALL BE REMOVED BY THE CONTRACTOR, IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS.
- 5. ALL WORK WITHIN THE STATE OF TEXAS RIGHT OF WAY, AND CITY RIGHT OF WAY, SHALL MEET OR EXCEED THE REQUIREMENTS/SPECIFICATIONS AS OUTLINED IN THE LATEST TEXAS DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN MANUAL.
- 6. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON A COMBINATION OF FIELD SURVEY DATA, AVAILABLE UTILITY MAPS AND MARKED LOCATION BY THE UTILITY OWNERS. THE UTILITIES SHOWN MAY NOT REFLECT ALL UNDERGROUND UTILITIES IN THE AREA. PRIOR TO ANY CONSTRUCTION, THESE UTILITIES SHOULD BE FIELD VERIFIED BY LOCAL UTILITY COMPANIES, AUTHORIZED EXPOSURE AND SURVEY MEASUREMENTS WHERE PRECISE ELEVATION OR LOCATION ARE CRITICAL.



VICINITY MAP

NOT TO SCALE

CHEET INDEX

C-1.0 COVER SHEET C-2.0 SITE PLAN C-3.0 PRE-DEVELOPED DRAINAGE AREA MAP C-3.1 GRADING PLAN C - 3.2POST-DEVELOPED DRAINAGE AREA MAP C - 3.3DRAINAGE CALCULATIONS C - 3.4EROSION CONTROL PLAN C - 4.0CONSTRUCTION DETAILS]

APPROVED FOR CONSTRUCTION

Town of Addison Public Works Department

APPROVED BY: CAP BOOKETT

DATE: S-10-2009

All responsibility for the adequacy of these plans remains with the Engineer who prepared them. In approving these plans, the Town of Addison makes no representation of adequacy of the work of the Design Engineer.

Engineer Information:

ne Bousquet Group, I Box 545 gyle, TX. 76226 0.455.2177 0.455.2254 fax

Texas Firm No. F-8942

Professional of Record:



HARDIN TDRIVE

VICTOR MEYER CUSTOM HOMES, L.
MICHAEL AND RACHEL HARDIN
14905 LAKE FOREST DR
ADDISON THXAS

Revisions:

Date Issued: Description:

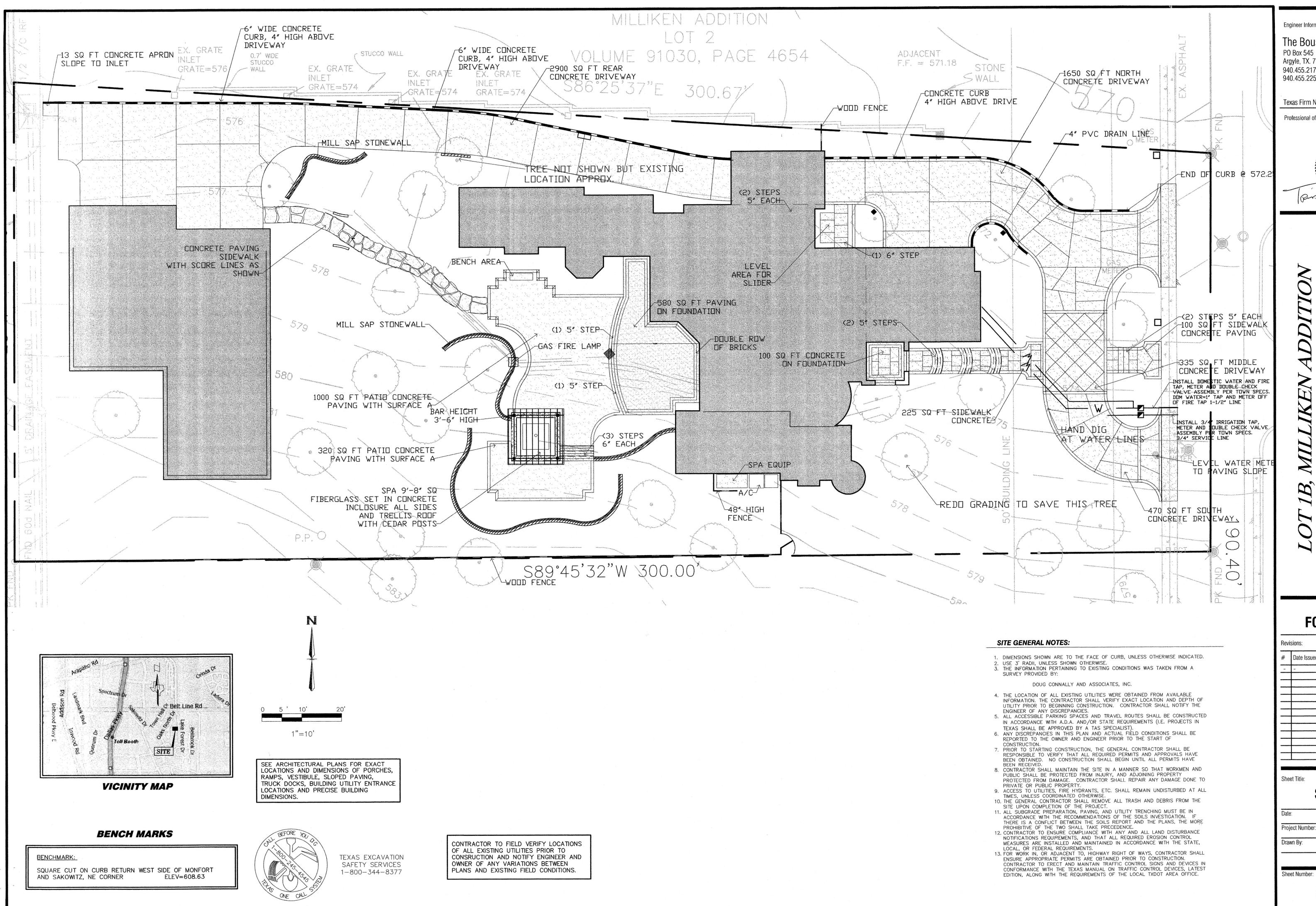
Sheet Title:

COVER SHEET

Date: August 7, 2009
Project Number: 09015.0
Drawn By: TJB

Sheet Number:

C-1.0



Engineer Information:

The Bousquet Group, Inc

Argyle, TX. 76226 BOUSQUET GROUP 940.455.2177 940.455.2254 fax

Texas Firm No. F-8942

Professional of Record:



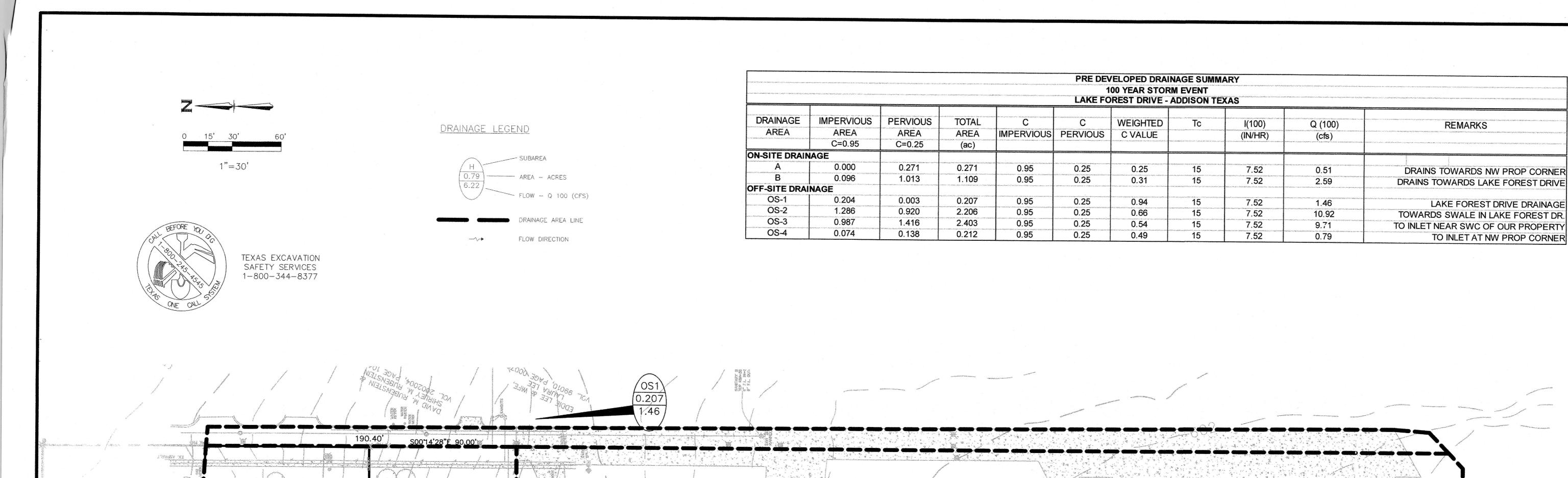
FOR PERMIT

Date Issued: Description:

SITE PLAN

July 23, 2009 Project Number: 09015.0 Drawn By:

Sheet Number:



Engineer Information:

The Bousquet Group, Inc.

PO Box 545 Argyle, TX. 76226 940.455.2177 940.455.2254 fax

REMARKS

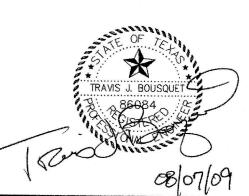
LAKE FOREST DRIVE DRAINAGE

TO INLET AT NW PROP CORNER



Texas Firm No. F-8942

Professional of Record:

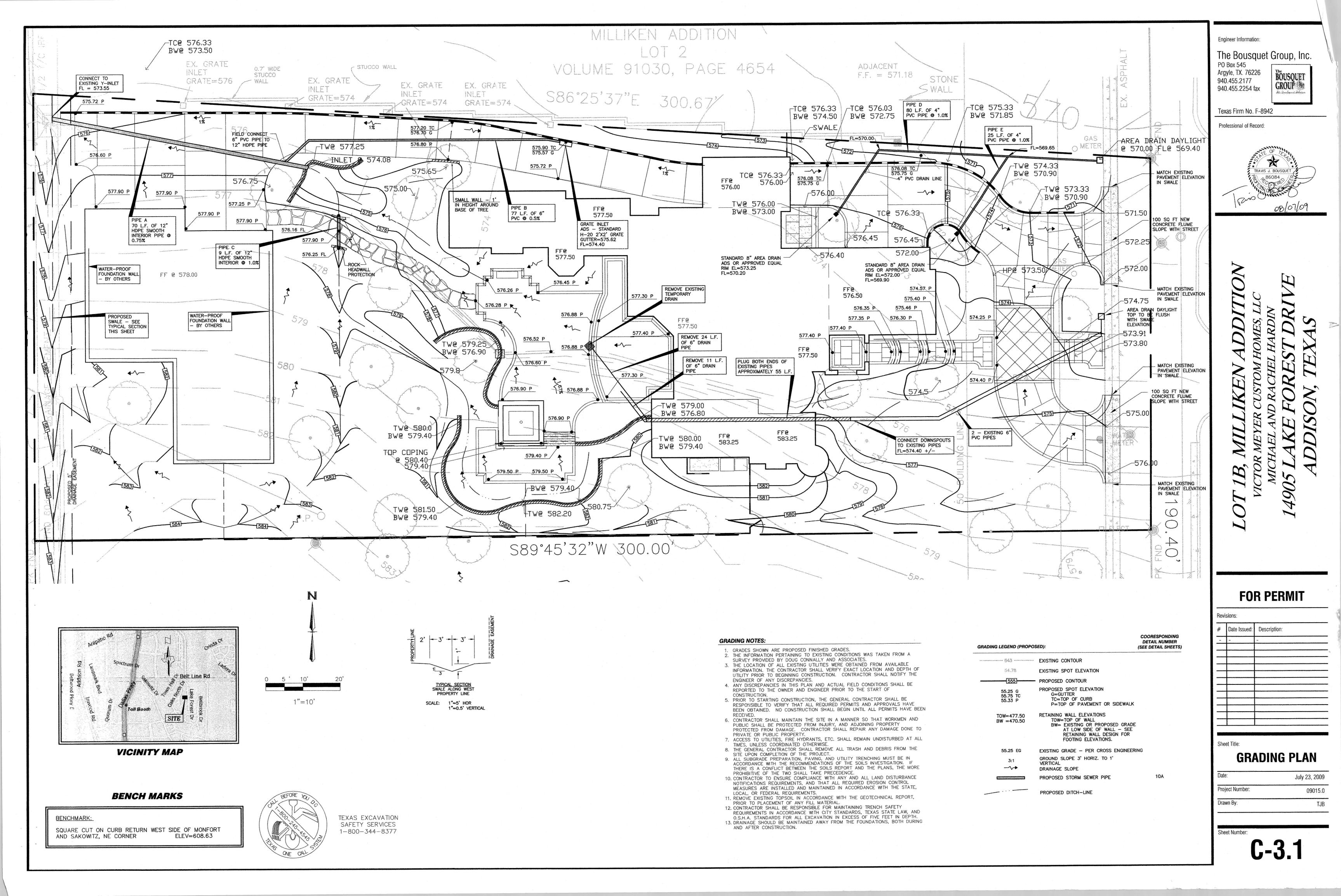


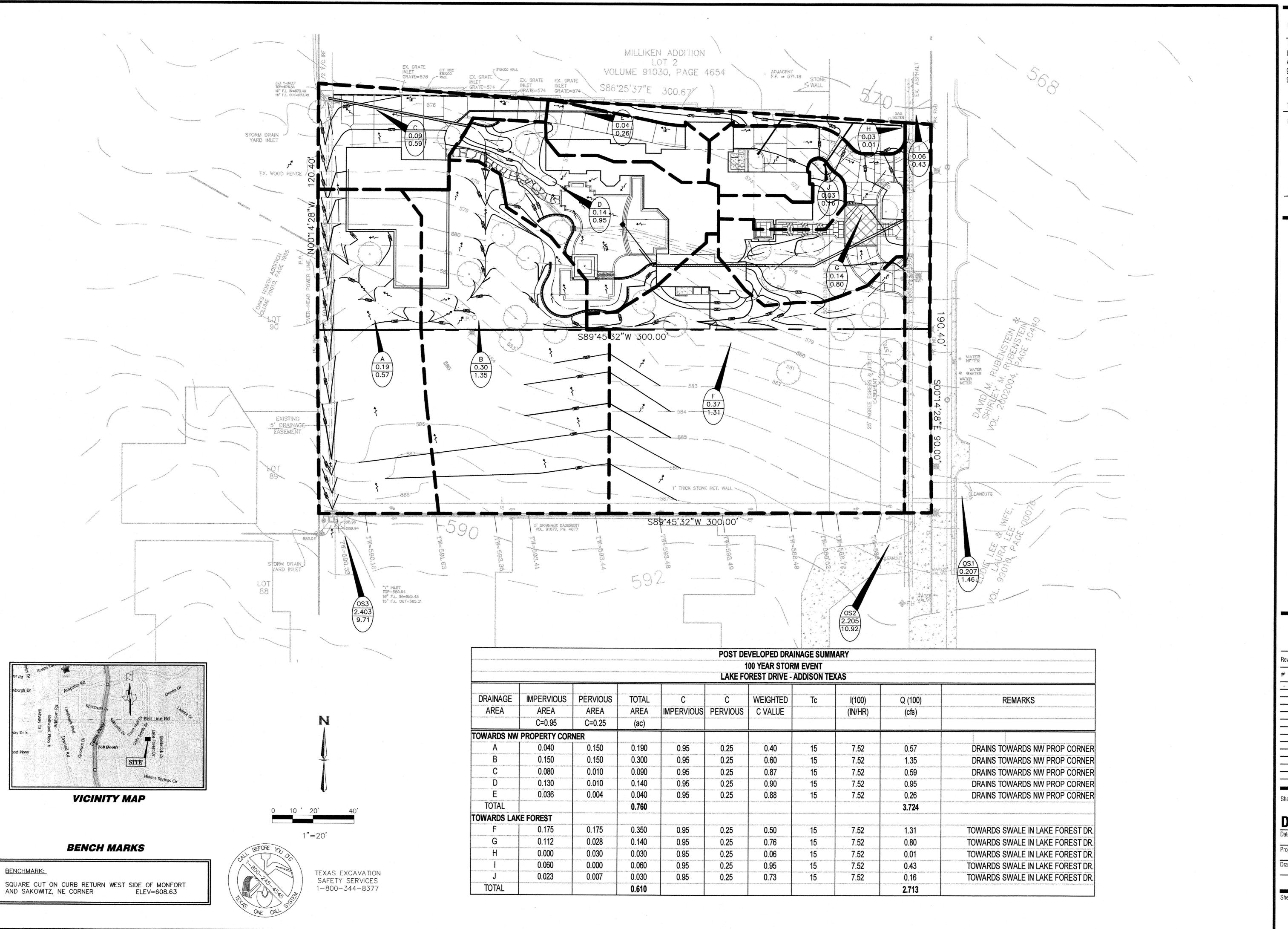
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PRE-DEVELOPED DRAINAGE AREA MAP





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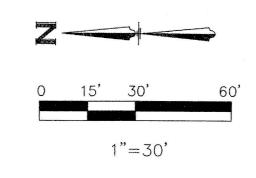
Texas Firm No. F-8942

Professional of Record:



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POST DEVELOPED DRAINAGE AREA MAP

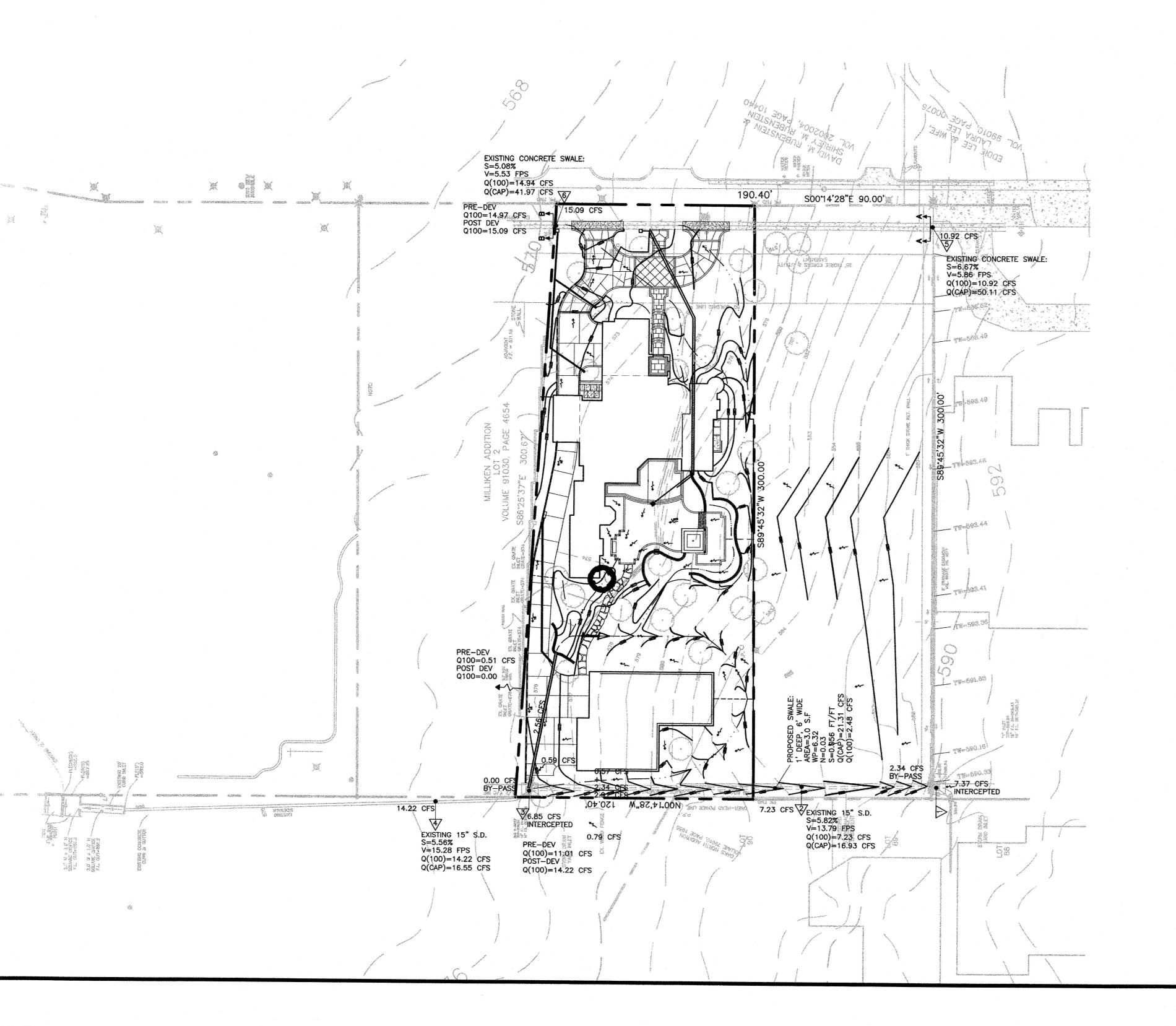




ipe diameter,d (Inch)	Manning Roughness Constant,n	Slope,s	Hydraulic Radius (ft)	Velocity (ft/sec)	Area (ft²)	Discharge (cfs)
6	0.012	0.005	0.125	2.1949773	0.196375	0.431038667
12	0.012	0.0075	0.25	4.267389915	0.7855	3 352034778

PIPE A: Q(100)=2.56 CFS Q(CAP)=3.35 CFS

PIPE B: Q(100)=0.26 CFS Q(CAP)=0.43 CFS





3'X3' WYE INLET WITH 15" OUTFLOW PIPE 3 SIDES EFFECTIVE OPENING. TOTAL Q = 9.71 CFS INTERCEPTED Q=7.37 CFS BY-PASS Q=2.34 CFS

WEIR CALCULATIONS:

Q= $(2/3)*b*(2*g)^{\frac{1}{2}}*(H)^{\frac{3}{2}}$ FRONT FACE OF WEIR: L=3'

b=0.5' g=32.2 Q(CAP)=5.67 CFS

2 SIDES AT 15% EFFICIENCY: Q=(CAP)=1.70 CFS

TOTAL CAPACITY = 7.37

 $\sqrt{3}$

3'X3' WYE INLET
3 SIDES EFFECTIVE OPENING.
TOTAL Q = 6.85 CFS
INTERCEPTED Q=6.85 CFS
BY-PASS Q=0.00 CFS

WEIR CALCULATIONS:

Q= $(2/3)*b*(2*g)^{\frac{1}{2}}*(H)^{\frac{3}{2}}$ FRONT FACE OF WEIR:

L=3' b=0.5' g=32.2 Q(CAP)=5.67 CFS

2 SIDES AT 15% EFFICIENCY: Q=(CAP)=1.70 CFS

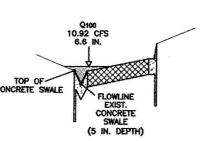
TOTAL CAPACITY = 7.37

\5,

EXISTING CHANNEL:

SLOPE = 0.06667 FT/FT MANNING'S n=0.022 Q(100)=10.92 CFS DEPTH=6.6 INCHES VELOCITY=4.96 FPS FLOW AREA=2.20 S.F. HYDRAULIC RAD=0.15 FT

> SECTION A-A 10X VERTICAL SCALE





EXISITNG 15" RCP:

SLOPE = 0.0574 FT/FT MANNING'S n=0.012 Q(100)=7.23 CFS Q(CAP)=16.93 CFS DEPTH=6.6 INCHES VELOCITY=13.79 FPS WETTED PERIMETER=1.70 FT FLOW AREA=0.614 S.F. HYDRAULIC RAD=0.313 FT



EXISITNG 15" RCP:

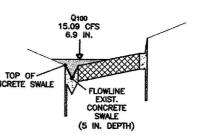
SLOPE = 0.0556 FT/FT
MANNING'S n=0.012
Q(100)=14.22 CFS
Q(CAP)=16.55 CFS
DEPTH=10.8 INCHES
VELOCITY=15.28 FPS
WETTED PERIMETER=2.618 FT
FLOW AREA=0.987 S.F.
HYDRAULIC RAD=0.377 FT



EXISTING CHANNEL:

SLOPE = 0.0510 FT/FT MANNING'S n=0.022 Q(100)=15.09 CFS DEPTH=7.2 INCHES VELOCITY=4.67 FPS FLOW AREA=3.20 S.F. HYDRAULIC RAD=0.17 FT

> SECTION B-B 10X VERTICAL SCALE

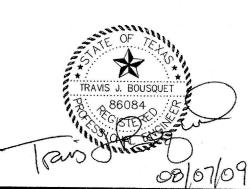


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940.455.2254 fax

Texas Firm No. F-8942

Professional of Record:



VICTOR MEYER CUSTOM HOMES, LLC
MICHAEL AND RACHEL HARDIN
14905 LAKE FOREST DRI
A DDISON TEXAS

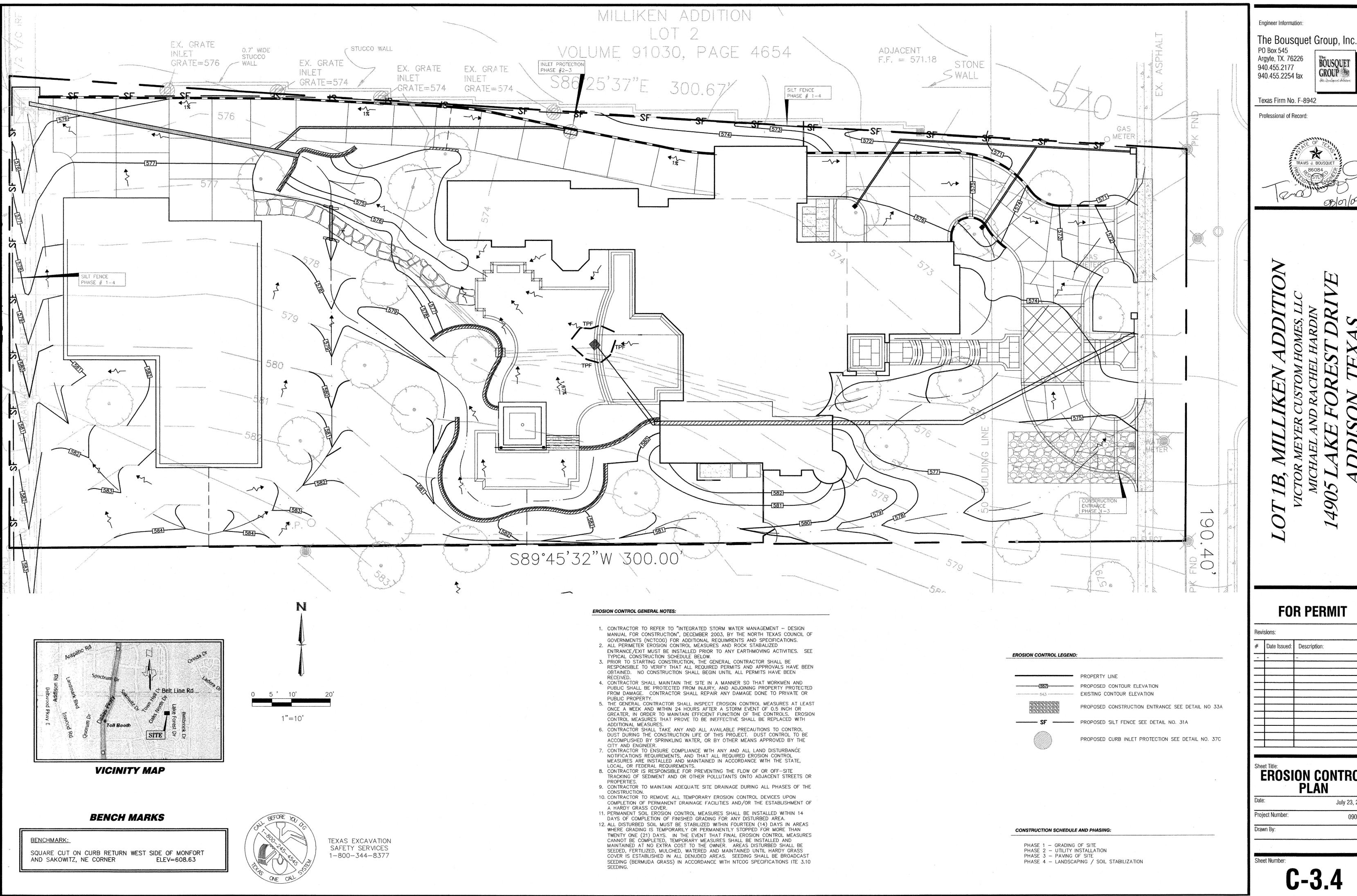
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Project Number: 09015.0
Drawn By: TJB

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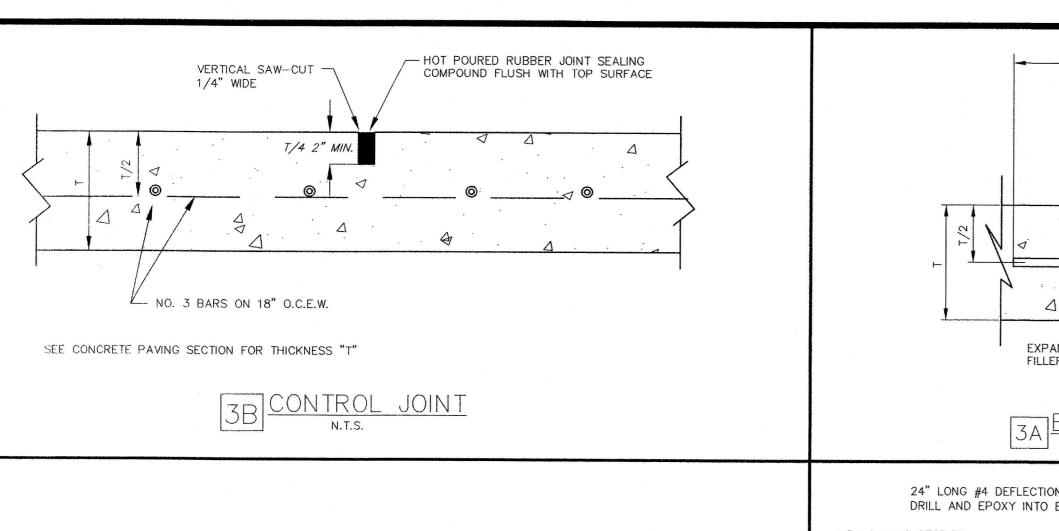




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EROSION CONTROL

July 23, 2009 09015.0



Cap Unit

Height: 4"
*Weight: 45 lbs

Standard Unit

18" 18" 8" 102 lbs

Width: *Depth: Height: *Weight:

Standard Unit/Base Pad Isometric Section View * Dimensions & Weight May Vary by Region

Base Leveling Pad Notes:

constructed of crushed stone

or 2,000 psi± unreinforced

2. The base foundation is to be approved by the site geotechnical engineer prior to placement of the

1. The leveling pad is to be

concrete

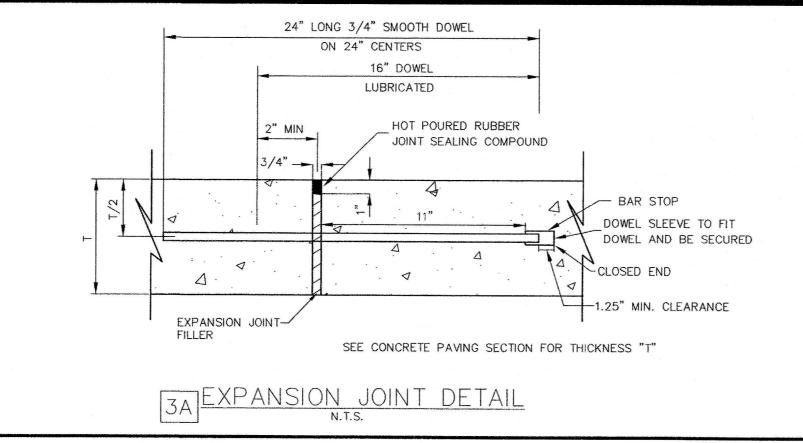
6" Crushed Rock or

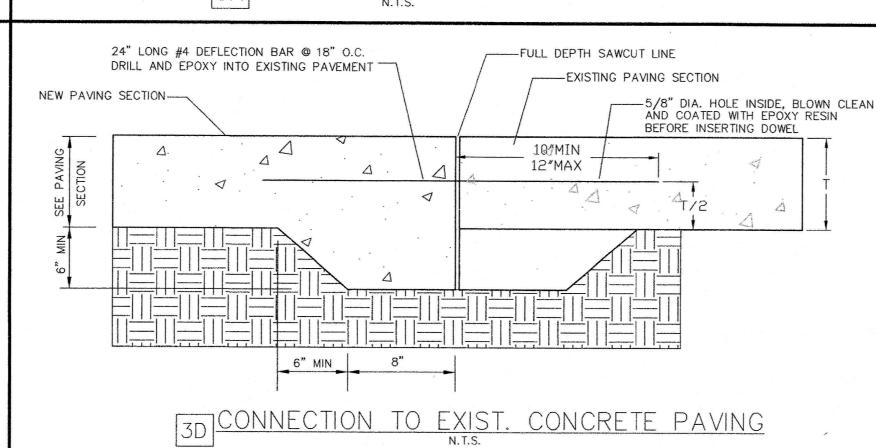
Leveling Pad

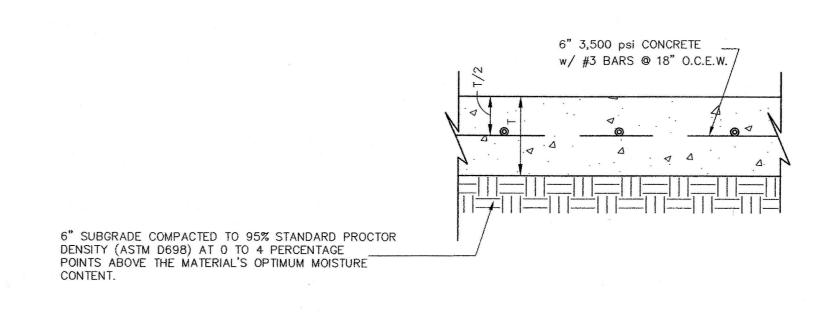
Unreinforced Concrete

drainage composite or aggregate back drain

system, as directed by geotechnical engineer.





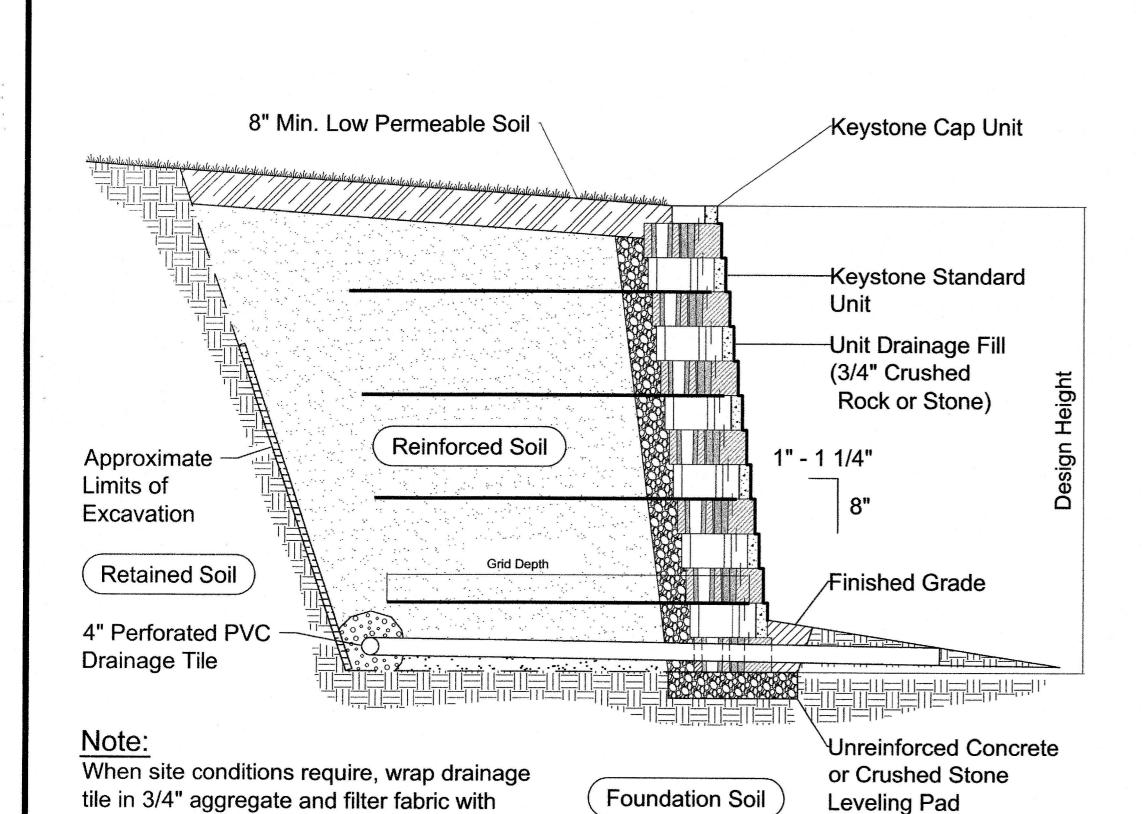


REINF. CONCRETE PAVING

PAVING NOTES:

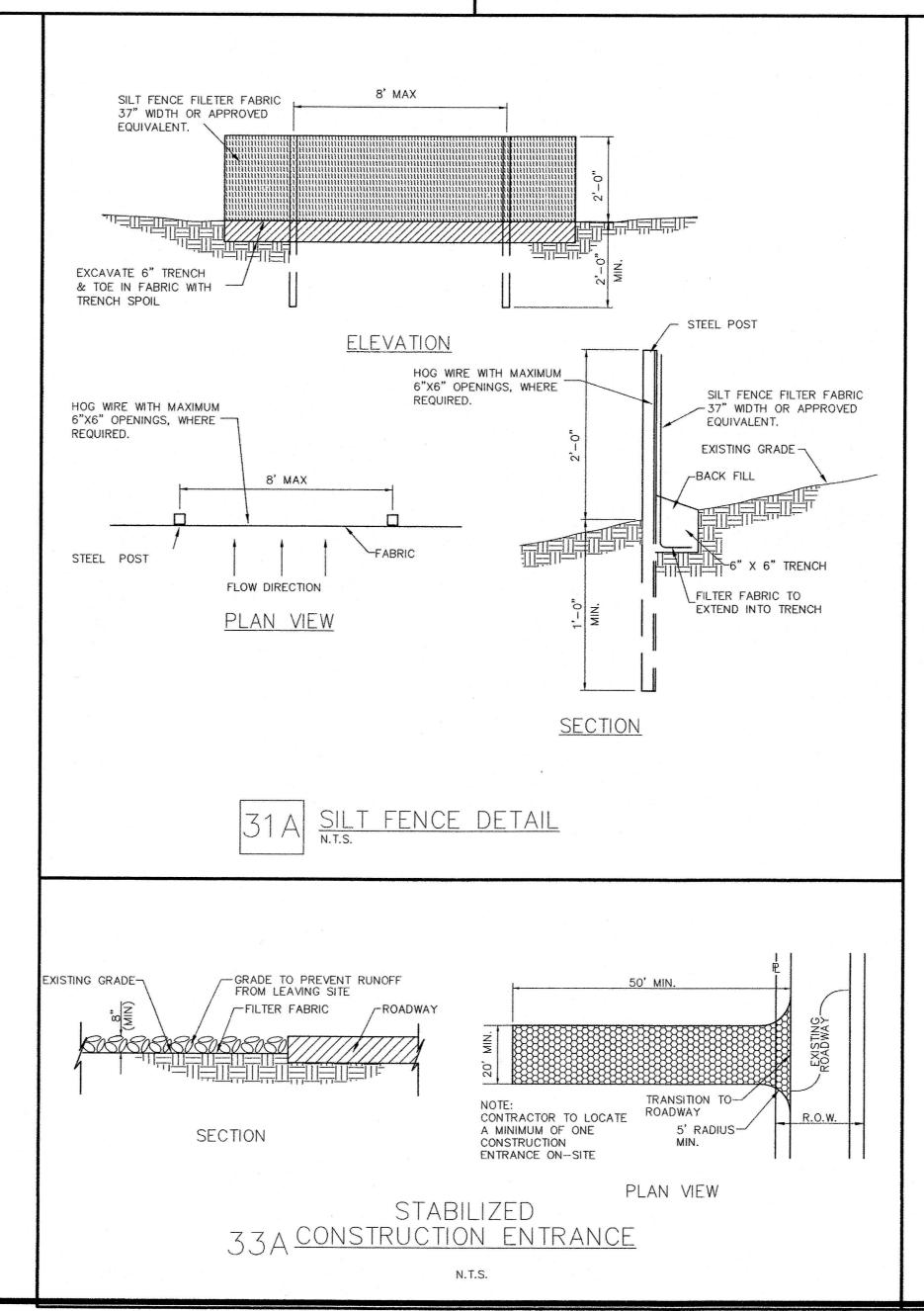
- SUBGRADE TO BE MODIFIED WITH 6% HYDRATED LIME(DRY WEIGHT), IN ACCORDANCE WITH THE APPLICABLE PROVISION OF ITEM 260 OF THE LATEST TXDOT SPECIFICATIONS. SUBGRADE TO HAVE A PI OF 15 OR LESS.
- CONCRETE TO BE A MINIMUM OF 3,500 P.S.I. @ 28 DAYS.
- CONCRETE TO HAVE 5% (+/-1%) AIR ENTRAINMENT
- CONTROL JOINTS TO BE PLACED AT A MINIMUM OF 15'.

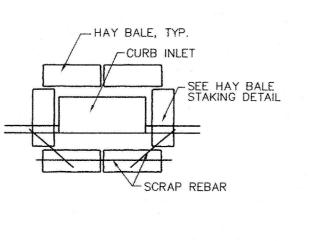
CONCRETE PAVING SECTIONS



Typical Reinforced Wall Section

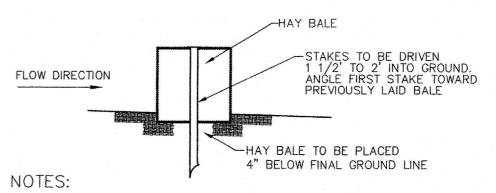
Standard Unit - 1" Setback



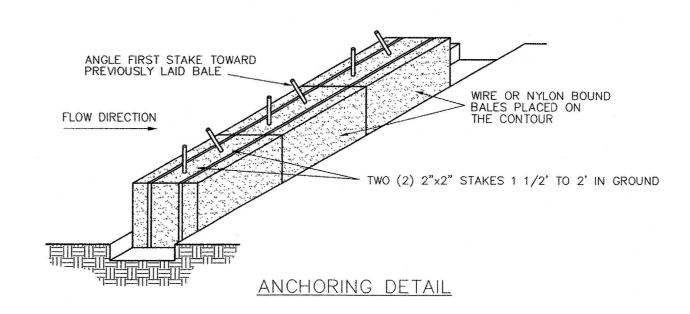


HAY BALE CHECK DAM DETAIL HAY BALE CHECK DAM DETAIL STORM SEWER CURB INLET STORM SEWER GRATE INLET

- HAY BALE, TYP. -GRATE INLET



- Bales shall be placed in a row with ends tightly abutting the adjacent bales.
- Each bale shall be embedded in the soil a minimum of 4". Bales shall be securely anchored in place by stakes or rebars driven through the bales. The
- irst stake in each baie shall be angled toward previously laid bale to force bales together.
- Bales shall be removed when they have served their usefulness so as not to block or impede



ALTERNATE - HAY BALE INSTALLATION DETAIL
N.T.S.

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BOUSQUE GROUP ! 940.455.2254 fax

Texas Firm No. F-8942

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DETAILS

August 7, 2009 09015.0