

**CONCRETE PILOT CHANNEL**  
N.T.S.

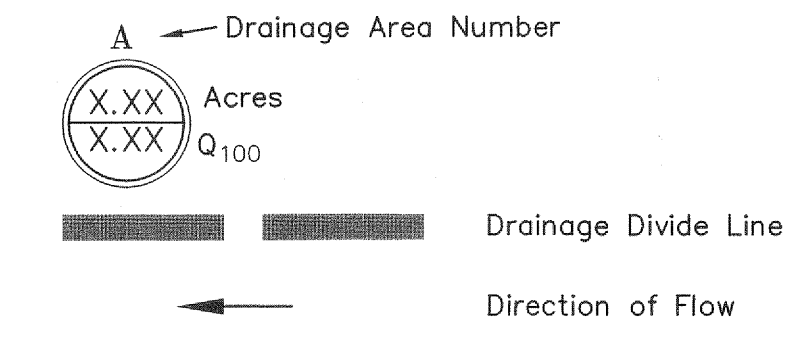
**GENERAL/DRAINAGE NOTES**

1. All materials and construction shall be in accordance with the City of Rockwall Standard Specifications and Construction Standards, and Standard Specifications for Public Works Construction prepared by North Central Texas Council of Governments (3rd Edition).
2. Existing utilities are shown schematically and are for the contractor's guidance only. The location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies, and, where possible, measurements taken in the field. The contractor must call the appropriate utility company at least 48 hours prior to any excavation to request exact field location of utilities.
3. The contractor shall be responsible for protecting all existing improvements in the construction of this project. The contractor is responsible for repairs of damage to any existing improvements during construction. Repairs shall be equal to or better than condition prior to construction.
4. All storm sewer pipe 18" and larger shall be Class III RCP. All storm sewer pipe 15" and smaller shall be PVC drainage pipe or approved equal.
5. Contractor shall be responsible for maintaining trench safety requirements in accordance with the latest standards of O.S.H.A. or any other agency having jurisdiction for excavation and trenching procedures. Contractor shall provide and implement a trench safety plan complying with O.S.H.A.
6. All RCP pipe joints shall have Ram-Neck joint sealer, in the absence of a City Standard for joint sealant.
7. All roof drain laterals shall be 1.00% min. slope.
8. Storm line and flume must be installed along with either sod or anchored curlex on the sides and bottom of detention pond prior to any paving or slab work.

**FULLY DEVELOPED DRAINAGE AREA CALCULATIONS**

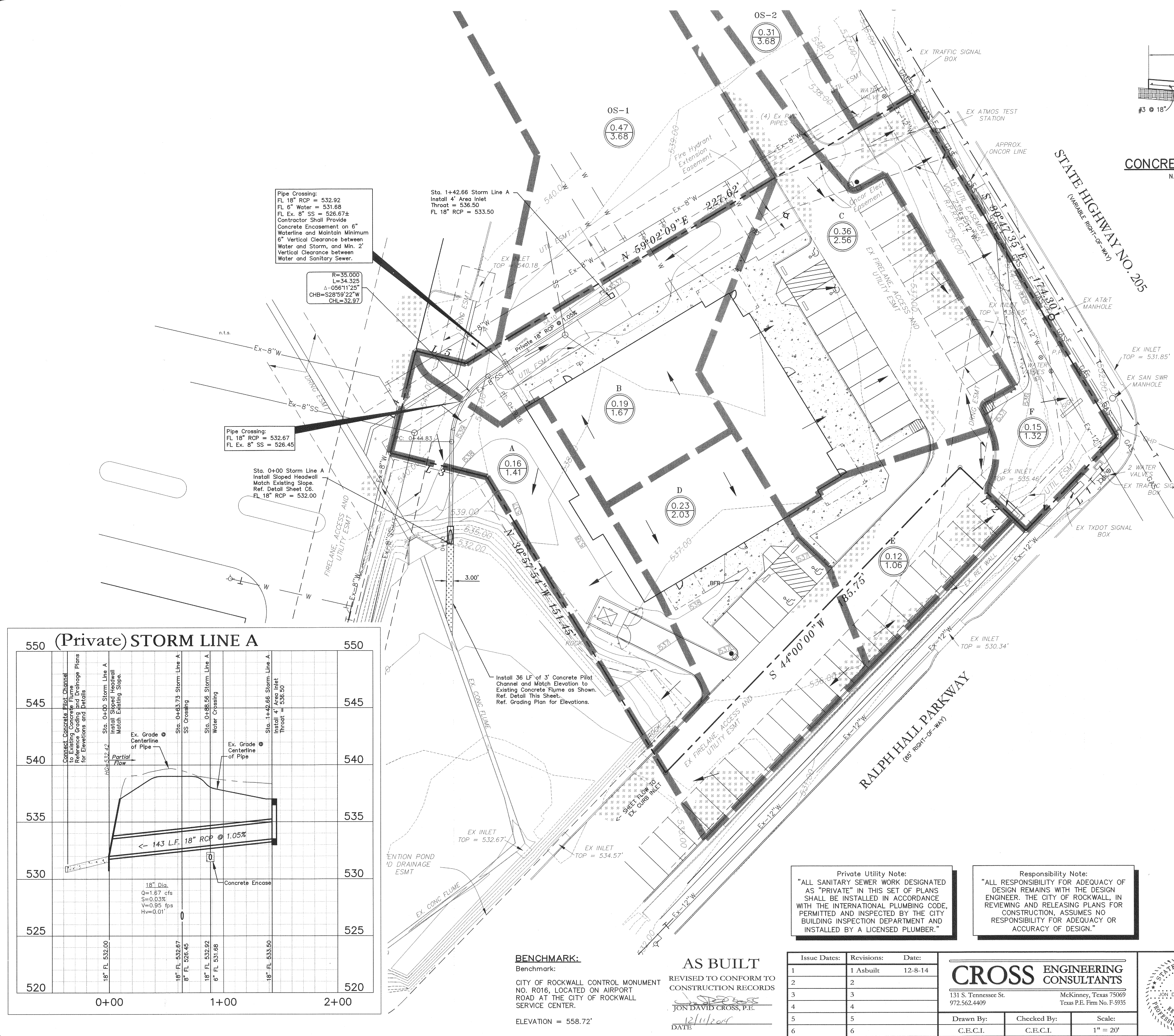
Drainage Area No.	Drainage Area (Acres)	C	t <sub>c</sub> (min)	I <sub>100</sub> (in/hr)	Q <sub>100</sub> (cfs)	REMARKS
A	0.16	0.90	10	9.80	1.41	To Ex. Detention Pond
B	0.19	0.90	10	9.80	1.67	To 4' Area Inlet
C	0.36	0.90	10	9.80	3.18	To Ex. Curb Inlet
D	0.23	0.90	10	9.80	2.03	To Ex. Curb Inlet
E	0.12	0.90	10	9.80	1.06	To Ex. Curb Inlet
F	0.15	0.90	10	9.80	1.32	Sheet Flow To Street
OS-1	0.47	0.90	10	9.80	4.14	To Ex. Detention Pond
OS-2	0.31	0.90	10	9.80	2.73	To FM 205

**DRAINAGE LEGEND**



**DRAINAGE CRITERIA**

- Q = C I A
- C = 0.90
- I<sub>100</sub> = 9.8
- t<sub>c</sub> = 10 min.



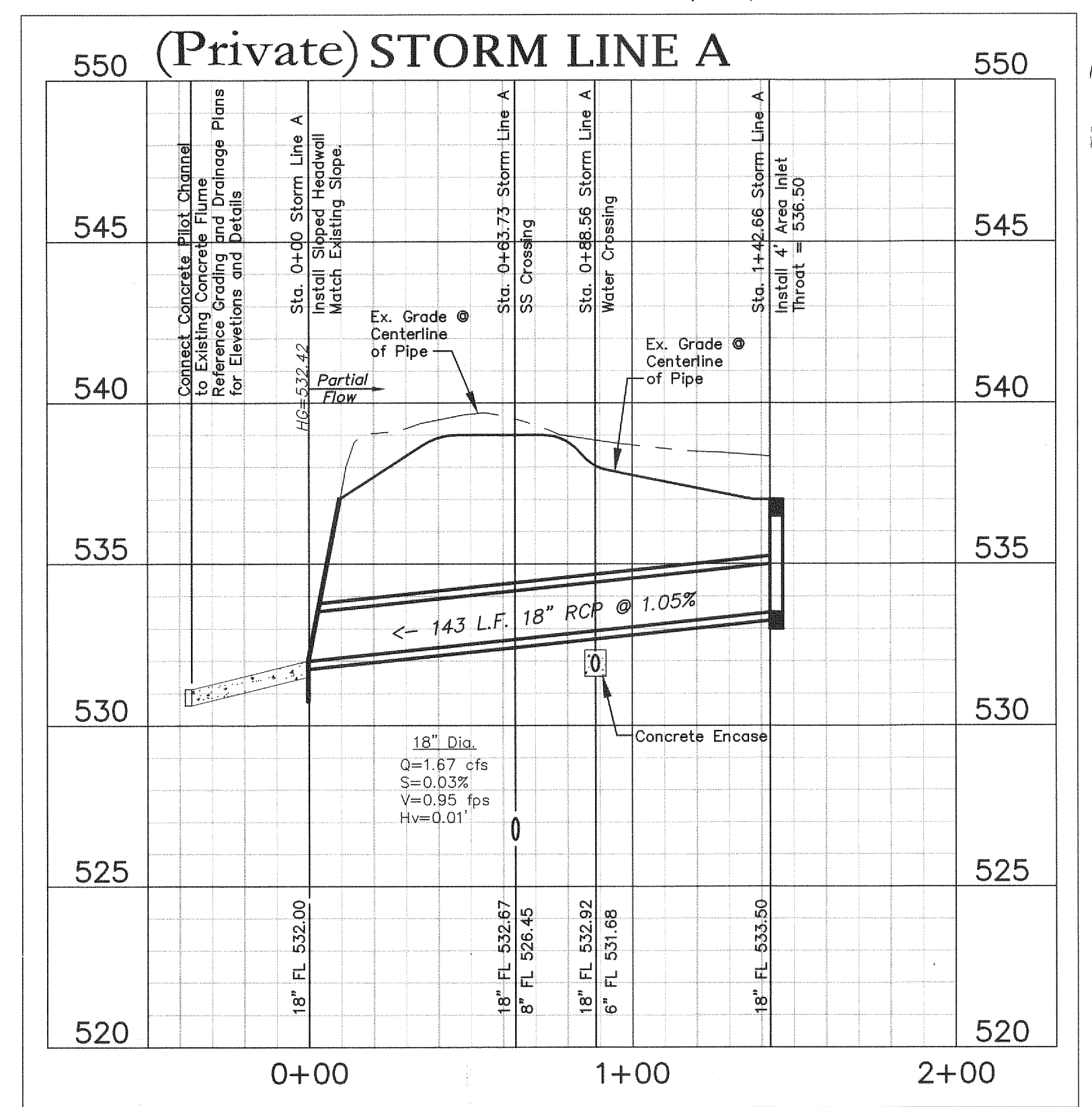
Pipe Crossing:  
FL 18" RCP = 532.92  
FL 8" Water = 531.68  
FL Ex. 8" SS = 526.67±  
Contractor Shall Provide Concrete Encasement on 6" Waterline and Maintain Minimum 6" Vertical Clearance between Water and Storm, and Min. 2' Vertical Clearance between Water and Sanitary Sewer.

Sta. 1+42.66 Storm Line A  
Install 4' Area Inlet  
Throat = 536.50  
FL 18" RCP = 533.50

Pipe Crossing:  
FL 18" RCP = 532.67  
FL Ex. 8" SS = 526.45

Sta. 0+00 Storm Line A  
Install Sloped Headwall  
Match Existing Slope.  
Ref. Detail Sheet C6.  
FL 18" RCP = 532.00

Install 36 LF of 3' Concrete Pilot Channel and Match Elevation to Existing Concrete Flume as Shown. Ref. Detail This Sheet.



**BENCHMARK:**  
Benchmark:  
CITY OF ROCKWALL CONTROL MONUMENT NO. R016, LOCATED ON AIRPORT ROAD AT THE CITY OF ROCKWALL SERVICE CENTER.  
ELEVATION = 558.72'

**AS BUILT**  
REVISED TO CONFORM TO CONSTRUCTION RECORDS  
JON DAVID CROSS, P.E.  
DATE 12/11/2017

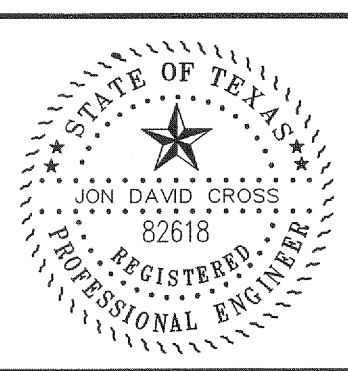
**Private Utility Note:**  
"ALL SANITARY SEWER WORK DESIGNATED AS 'PRIVATE' IN THIS SET OF PLANS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE, PERMITTED AND INSPECTED BY THE CITY BUILDING INSPECTION DEPARTMENT AND INSTALLED BY A LICENSED PLUMBER."

**Responsibility Note:**  
"ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN."

Issue Dates:	Revisions:	Date:
1	1 Asbuilt	12-8-14
2	2	
3	3	
4	4	
5	5	
6	6	

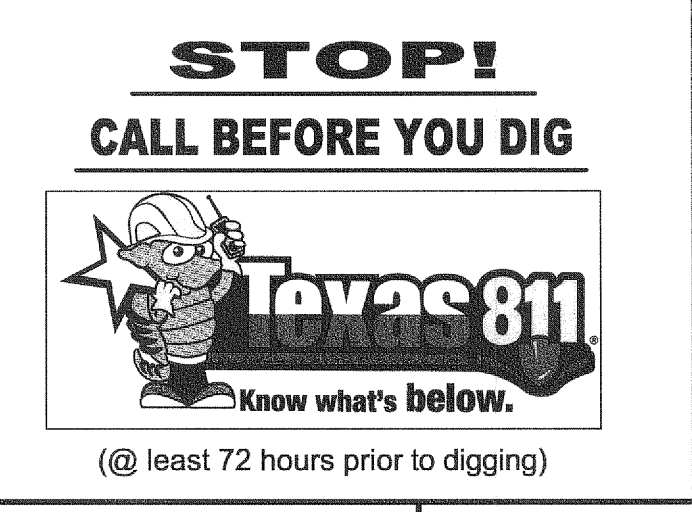
**CROSS ENGINEERING CONSULTANTS**  
131 S. Tennessee St.  
972.562.4409  
McKinney, Texas 75069  
Texas P.E. Firm No. F-5935

Drawn By: C.E.C.I. Checked By: C.E.C.I. Scale: 1" = 20'



**DRAINAGE PLAN**  
ROCKWALL BUSINESS PARK - LOT 8  
EAST SUBDIVISION  
City of Rockwall, Texas

Sheet No. **C3** of **6**  
Project No. 13104



(@ least 72 hours prior to digging)