

**GENERAL NOTES- STORM DRAIN**

- GENERAL CONSTRUCTION NOTES:** REFER TO SHEET C1.1 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.
- PROTECTION OF UTILITIES:** THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS FOR THE SUPPORT AND PROTECTION OF ALL UTILITY POLES, FENCES, TREES, SHRUBS, GAS MAINS, TELEPHONE CABLES, ELECTRIC CABLES, DRAINAGE PIPES, UTILITY SERVICES, AND ALL OTHER UTILITIES AND STRUCTURES BOTH ABOVE AND BELOW THE GROUND.
- PUBLIC STORM DRAIN PIPE:** UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL PIPE FOR PUBLIC STORM DRAIN IMPROVEMENTS SHALL BE REINFORCED CONCRETE PIPE (RCP), CLASS III.
- PRIVATE STORM DRAIN PIPE:** UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL PIPE FOR PRIVATE STORM DRAIN IMPROVEMENTS SHALL BE AS FOLLOWS:  
GREATER THAN 36": REINFORCED CONCRETE PIPE (RCP), CLASS III  
15" THROUGH 36": REINFORCED CONCRETE PIPE (RCP), CLASS III OR HIGH DENSITY POLYETHYLENE PIPE (HDPE), N-12  
4" THROUGH 12": POLYVINYL CHLORIDE PIPE (PVC), SDR - 35, OR HIGH DENSITY POLYETHYLENE PIPE (HDPE), N-12
- RCP JOINT SEALANT:** REINFORCED CONCRETE PIPE JOINTS SHALL BE SEALED WITH RAMPOCK OR APPROVED EQUAL.
- GROUTING:** ALL PIPE ENTERING PUBLIC STORM DRAIN STRUCTURES SHALL BE GROUTED TO ASSURE WATERTIGHT CONNECTIONS.
- CONCRETE COLLARS:** CONCRETE COLLARS SHALL BE INSTALLED AT ALL CHANGES IN CONDUIT SIZE AND AT ALL JOINTS THAT ARE PULLED IN EXCESS OF THAT RECOMMENDED BY THE CONDUIT MANUFACTURER.
- ROOF DRAINS:** THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ROOF DRAIN LATERALS WITH BUILDING PLANS FOR DOWNSPOUT CONNECTIONS. END AND CAP ROOF DRAIN LATERALS FIVE (5) FEET FROM BUILDING AT 12" BELOW FINISH GRADE FOR CONNECTION OF DOWNSPOUTS.
- ADJUSTMENT OF STRUCTURES:** ALL STORM DRAIN STRUCTURES INCLUDING MANHOLES, INLETS AND CLEANOUTS MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO, AND AFTER, PLACEMENT OF PAVING AND GRASSING.

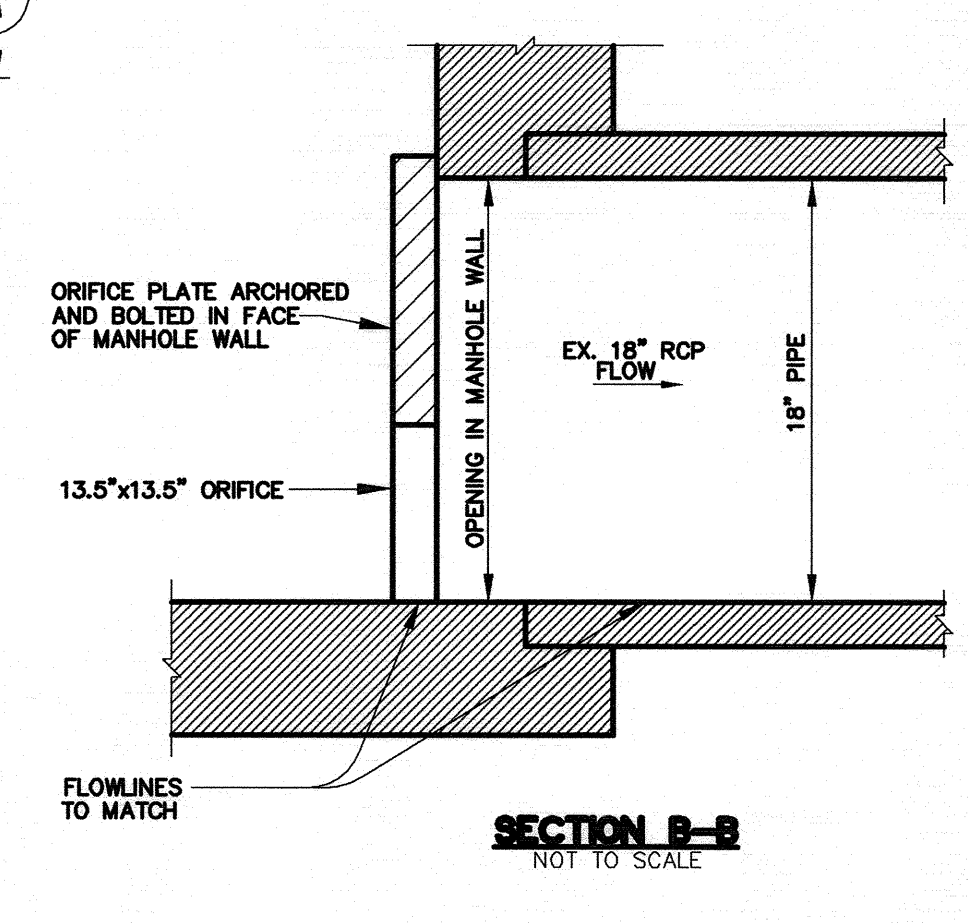
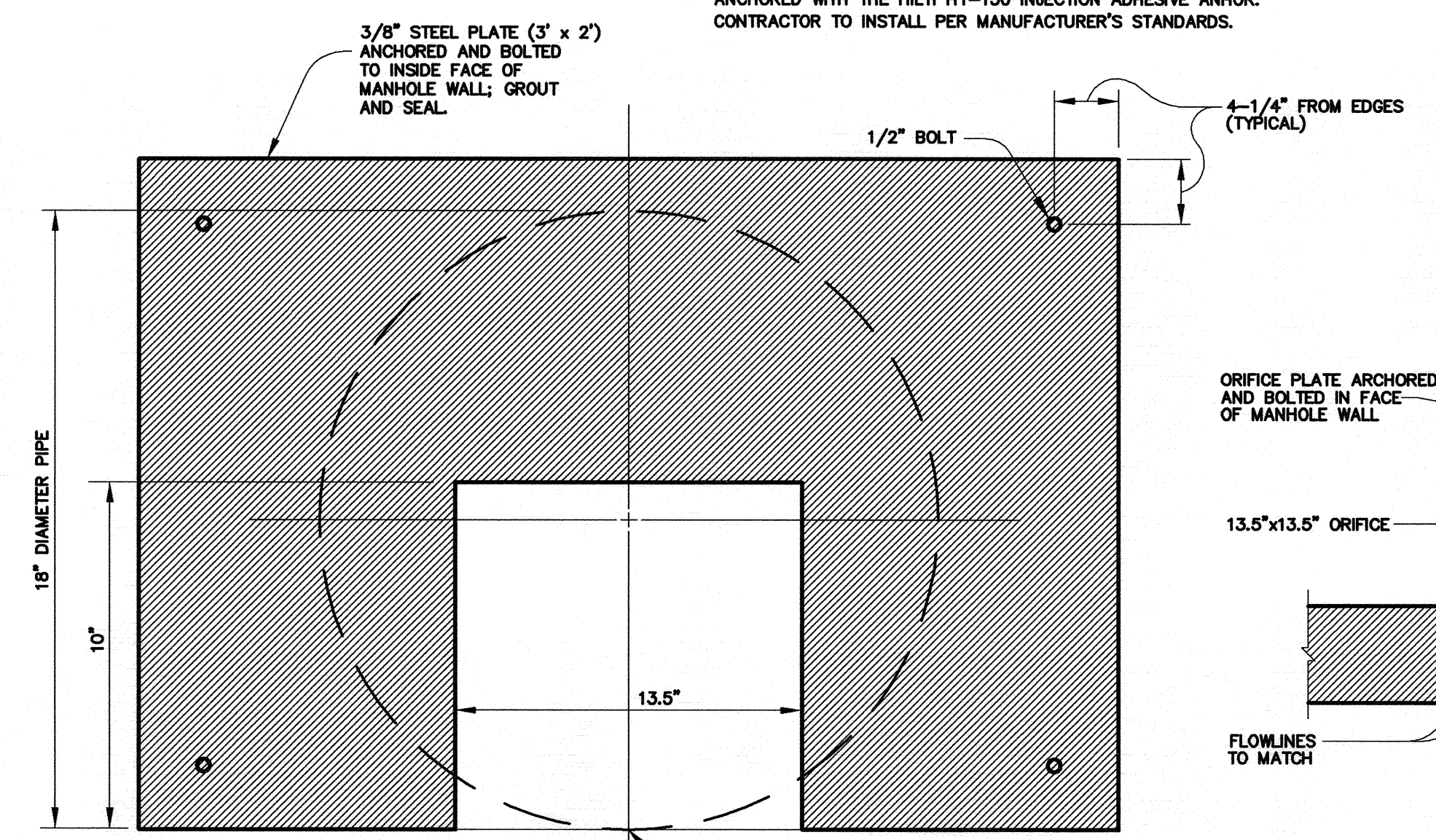
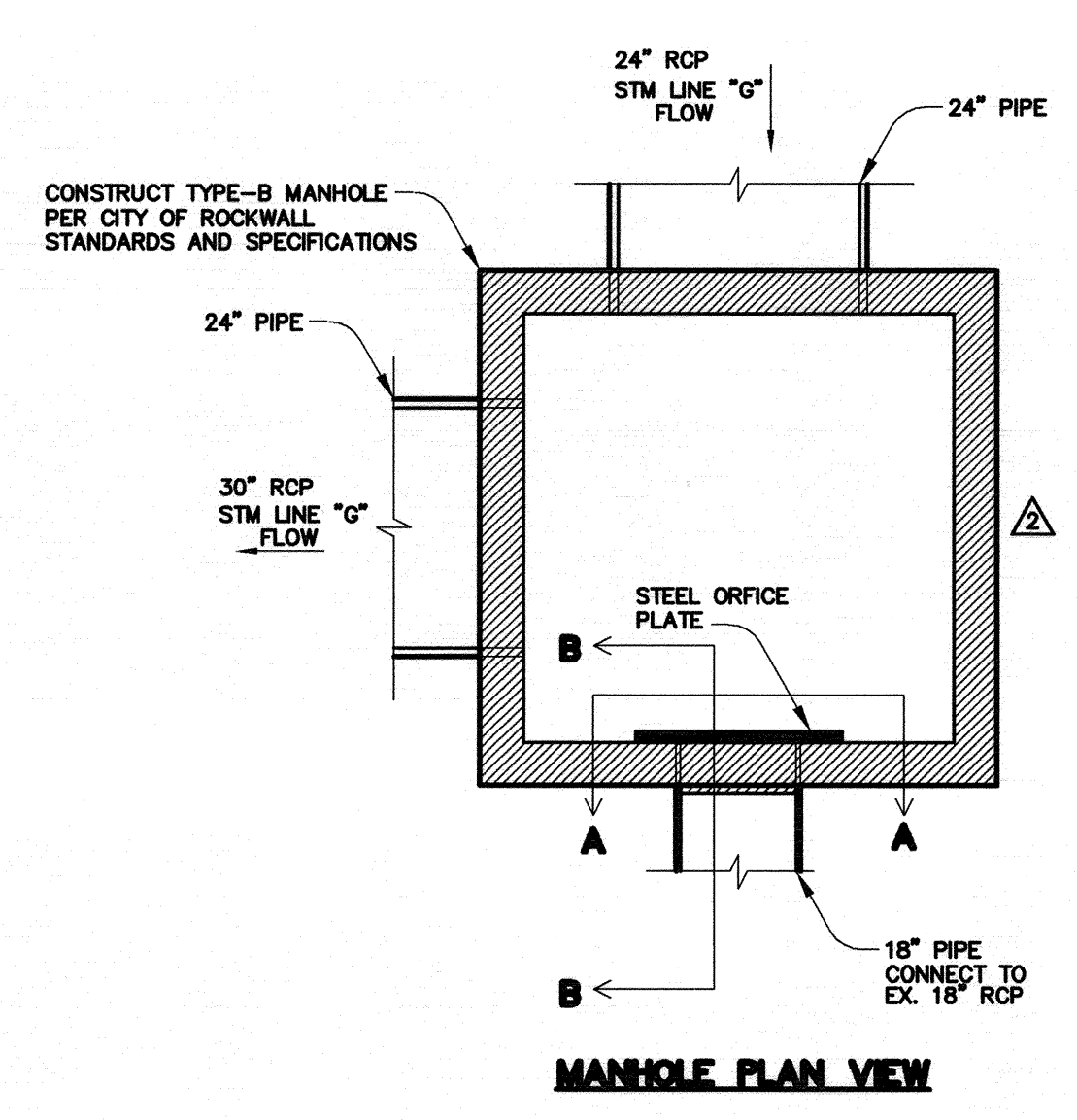
EXISTING PAVEMENT TO BE SAWCUT, REMOVED, AND REPLACED PER CITY OF ROCKWALL STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL REPLACE REMOVED PAVEMENT WITH 8" 3,600 PSI REINFORCED CONCRETE (6.5 SACK MIX MINIMUM). EXACT LIMITS OF PAVEMENT REMOVAL SHALL BE FIELD VERIFIED. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING PAVEMENT WITH OWNER PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL BARRICADES AND TRAFFIC PLATES AS NECESSARY TO ENSURE DRIVE IS OPEN AT ALL TIMES UNLESS OTHERWISE COORDINATED WITH OWNER.

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**NOTE:**  
BOLTS SHALL BE HILTI 1/2" HAS RODS 304, STAINLESS STEEL, ANCHORED WITH THE HILTI HY-150 INJECTION ADHESIVE ANCHOR. CONTRACTOR TO INSTALL PER MANUFACTURER'S STANDARDS.

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.

ALL STORM STRUCTURES TO BE MINIMUM 4,200 PSI CONCRETE (MIN. 6.5 SACK MIX)



**JUNCTION / DIVERTER BOX DETAIL**  
NOT TO SCALE

**JUNCTION BOX OUTFALL**  
ALLOWABLE DISCHARGE = 8.6 CFS (PER PHASE I DRAINAGE CALCULATIONS)  
EX. 18" FL AT JUNCTION BOX = 541.83 (PER PHASE I AS-BUILT PLANS)  
100 YEAR HG AT JUNCTION BOX = 544.26

**ORIFICE CALCULATIONS**  $Q = ca(2gh)^{1/2}$   
c = 0.62 (SQUARE-EDGED ORIFICE)  
a = 1.27 SF  
h = 13.5"  
Q = 8.6 CFS

**RECORD DRAWINGS:**  
THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THE FACILITIES ACCORDING TO THESE PLANS AS APPROVED BY THE CITY OR GOVERNING AUTHORITY. TO THE BEST OF THE ENGINEERS KNOWLEDGE THE PLANS REFLECT REVISIONS MADE DURING CONSTRUCTION BASED ON A VISUAL SITE OBSERVATION BY THE ENGINEER AND INFORMATION PROVIDED BY:  
W.B. KIBLER CONSTRUCTION CO, LTD  
9722 ABERNATHY  
DALLAS, TEXAS 75220  
CONTACT: PHIL GULSVIG

**CITY OF ROCKWALL CONTROL MONUMENT RESET #1 = 557.70'**  
CONCRETE MONUMENT WITH BRASS CAP STAMPED RESET #1, CITY OF ROCKWALL. THE MONUMENT IS LOCATED IN GREEN AREA SEPARATING A BANK AND AN OFFICE BUILDING, IN THE SOUTH RIGHT OF WAY LINE OF SUMMER LEE DRIVE, 272.2' WEST OF THE CENTERLINE INTERSECTION OF RIDGE ROAD (FM 740) WITH SUMMER LEE DRIVE, AND 120'± SOUTHWEST OF THE CENTERLINE INTERSECTION OF LAGO VISTA AND SUMMER LEE DRIVE.

**BM #1 = 554.30'**  
SQUARE CUT ON THE CENTER OF A CURB INLET ON THE SOUTH SIDE OF EASTBOUND SERVICE ROAD FOR INTERSTATE HIGHWAY 30, 925'± SOUTHWEST OF THE INTERSECTION OF INTERSTATE HIGHWAY 30 EASTBOUND SERVICE ROAD WITH THE SOUTHWEST RIGHT OF WAY LINE STATE HIGHWAY 205.

REFERENCE TOPOGRAPHIC SURVEY FOR LOT 9, ROCKWALL BUSINESS PARK EAST SUBDIVISION, PROJECT NUMBER 1WC001, PREPARED BY JBI PARTNERS DATED FEBRUARY 2009.

**BM #2 = 542.89'**  
"X" CUT IN CONCRETE OF A PARKING ISLAND 1460'± SOUTHWEST FROM THE CENTERLINE INTERSECTION OF THE EASTBOUND SERVICE ROAD OF INTERSTATE HIGHWAY 30 AND STATE HIGHWAY 205, AND 830'± SOUTHWEST FROM THE SOUTH RIGHT OF WAY OF THE EASTBOUND SERVICE ROAD OF INTERSTATE HIGHWAY 30. THE "X" IS IN THE CENTER OF THE EASTERMOST PARKING ISLAND OF THE MAIN CONCOURSE OF PARKING ISLANDS, SURVY ARBORS AND 420'± NORTH OF THE MAIN BUILDINGS WITH STAPLES OFFICE BUILDING WHICH IS IN BETWEEN THE DICKS SPORTING GOODS AND JC PENNY.

ARCHITECT:  
**RUNYON Architects AND ASSOCIATES INC**  
2508 HIGHLANDER WAY, SUITE 100  
CARROLLTON, TEXAS 75006  
972-233-7705  
WWW.RUNYONARCH.COM

M.E.P. ENGINEER:  
**ROBERT D. ANDERSON, INC.**  
11836 Judd Court, Inc.  
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T 972.669.0915 F 972.669.0917

LANDSCAPE ARCHITECT:  
**T.H. PRITCHETT / Associates**  
Landscape Architects  
1218 Camino Lago  
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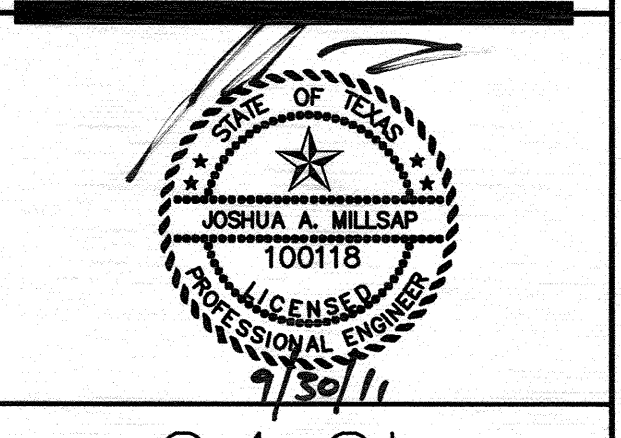
STRUCTURAL ENGINEER:  
**HUNT & JOINER**  
1825 Market Center Blvd.  
Suite 620  
Dallas, Texas 75207  
T 214.760.7000 F 214.760.7050

CIVIL ENGINEER:  
**Bury+Partners**  
ENGINEERING SOLUTIONS  
5310 Harvest Hill Road, Suite 100  
Dallas, Texas 75230  
Tel. (972)991-0011 Fax (972)991-0278  
Texas Registration #7-1048

**ROCKWALL PLAZA  
PHASE II  
SHELL BUILDINGS 10-15  
ROCKWALL, TEXAS 75087**

ISSUE	DATE	DESCRIPTION
2	JAM 09/27/10	CITY COMMENTS
12	JAM 05/24/11	AS BUILT DRAWINGS
13	JAM 09/29/11	OLIVE GARDEN
14	JAM 09/30/11	AS BUILT DRAWINGS (OLIVE GARDEN DRAINAGE)

RAA Project # : 1010  
Project Manager : MWL



**C4.2b  
STORM DRAIN PLAN**

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