



CAUTION !!
 CONTRACTOR IS TO CONTACT TEXAS ONE-CALL SYSTEM (1-800-248-4646) OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. BURY & PARTNERS IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES IN THE PROJECT AREA NOR FOR DEPICTING THE EXACT LOCATIONS OF UTILITIES ON THESE DRAWINGS.

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.

NOTE:

- CONTRACTOR SHALL ADJUST ELEVATIONS OF ALL EXISTING MANHOLE RIMS AND OTHER UTILITY APPURTENANCES AS NECESSARY TO MATCH PROPOSED FINISHED GRADES.
- CONTRACTOR SHALL PROVIDE COST FOR DOMESTIC AND IRRIGATION METERS IN BID.
- CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND INVERT ELEVATIONS OF ALL EXISTING UTILITY LINES PRIOR TO CONSTRUCTION.
- SEPARATE PERMIT MUST BE OBTAINED FOR ALL FIRE SPRINKLER LINES AND SERVICES. FIRE LINES SHALL BE INSTALLED AT A MINIMUM DISTANCE OF 10' FROM ALL OTHER UTILITIES.
- ALL PRIVATE SANITARY SEWER WORK 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.
- CONTRACTOR SHALL HAVE GEOTECHNICAL ENGINEER PRESENT ON SITE FOR TESTING AT TIME OF PLACEMENT AND COMPACTION OF PIPE BACKFILL.

NOTE:

ALL WATER METERS LOCATED WITHIN THE PAVEMENT SHALL BE INSTALLED WITH A TRAFFIC RATED METER CAN AND LID.

NOTE:

- ALL FIRE HYDRANTS SHALL HAVE A MINIMUM 5' CLEARANCE AROUND.
- ALL DOMESTIC AND IRRIGATION WATER SERVICES SHALL HAVE DOUBLE CHECK AND BACKFLOW PREVENTERS.
- ALL WATER LINES SHALL BE CLASS 200.
- CONTRACTOR SHALL INSTALL BLUE EMS DISKS ON THE WATER LINE AT EVERY CHANGE IN DIRECTION, SERVICE, AND VALVE.
- CONTRACTOR SHALL INSTALL GREEN EMS DISKS ON THE SANITARY SEWER LINE AT EVERY MANHOLE, SERVICE, AND CLEANOUT.
- ALL SANITARY SEWER MANHOLE COVERS AND FRAMES SHALL BE CALLED PANTIGHT OR APPROVED EQUAL COVER AND FRAME SHALL BE MANUFACTURED FROM DUCTILE IRON.
- WATER LINE SHALL HAVE MIN. 2' VERTICAL CLEARANCE BETWEEN ALL CROSSING UTILITIES. IF 2' VERTICAL CLEARANCE CAN NOT BE ACHIEVED, CONTRACTOR SHALL ENCASE WATER LINE IN CONCRETE FOR A LENGTH OF 20' (10' EITHER SIDE OF CROSSING UTILITY).

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.

GENERAL NOTES- UTILITIES

- GENERAL CONSTRUCTION NOTES:** REFER TO SHEET C1.1 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.
- INSPECTION AND TESTING:** THE CONTRACTOR SHALL COORDINATE INSPECTION AND TESTING WITH THE APPROPRIATE GOVERNING AUTHORITIES PRIOR TO BACKFILLING TRENCHES FOR ALL UTILITIES.
- TRENCH COMPACTION:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COMPACTION TO A MINIMUM OF 95% STANDARD PROCTOR IN AREAS OF PROPOSED AND FUTURE PAVEMENT AND ALL AREAS EXCAVATED AT THE BUILDING FOOTINGS FOR UTILITY SERVICE ENTRIES. TRENCHES WHICH LIE OUTSIDE THESE AREAS SHALL BE COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR.
- CONFLICTS:** THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED. IN THE EVENT OF A CONFLICT BETWEEN WATER LINES AND STORM DRAIN OR SANITARY SEWER PIPING, THE CONTRACTOR SHALL ADJUST THE WATER LINE DOWNWARDS IN SUCH A MANNER SO THAT THE PIPE MANUFACTURER'S RECOMMENDATIONS ON THE PIPE DEFLECTION AND JOINT STRESS ARE NOT EXCEEDED.
- CONNECTION TO EXISTING UTILITIES:** THE CONTRACTOR SHALL VERIFY THE SIZE, TYPE, ELEVATION, CONFIGURATION, AND ANGLING OF EXISTING WATER, SANITARY SEWER AND UTILITY LINES PRIOR TO CONSTRUCTION OF THE IN-MATERIALS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING FACILITIES DAMAGED BY HIS ACTIVITIES.
- WATER METERS:** THE CONTRACTOR SHALL ACQUIRE BOTH DOMESTIC AND IRRIGATION METERS FROM THE GOVERNING AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING METERS INSTALLED IN BOXES AND CONNECTING PUBLIC TO PRIVATE WATER LINES.
- PIPE COVER:** TOP OF ALL WATER LINES SHALL BE INSTALLED WITH A MINIMUM COVER OF 48".
- HORIZONTAL BLOCKING:** HORIZONTAL BLOCKING FOR WATER LINES HAS BEEN OMITTED FOR CLARITY, HOWEVER, BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' STANDARD DETAILS'.
- THRUST BLOCKING:** THRUST BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' STANDARD DETAILS. DO NOT COVER BELLS OR FLANGES WITH CONCRETE. THE CONTRACTOR SHALL REMOVE EXISTING THRUST BLOCKING OR RESTRAINTS WHERE NECESSARY TO ALLOW THE WORK TO PROCEED, AND SHALL REPLACE THE THRUST BLOCKS WHERE REQUIRED. THE COST TO REMOVE, REPLACE OR PROVIDE THRUST BLOCKING SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
- ADDITIONAL BENDS:** THE CONTRACTOR SHALL SUPPLY AND INSTALL ANY ADDITIONAL BENDS WITH THRUST BLOCKING AND OTHER APPURTENANCES REQUIRED TO ASSURE PROPER INSTALLATION OF WATER MAINS AND LATERALS. THE CONTRACTOR MAY PULL PIPE AS NEEDED AT THE BENDS WHERE THE DEFLECTION ANGLE OF THE PIPE DOES NOT MATCH THE ANGLE OF THE BEND PROVIDED THE PIPE DEFLECTION IS WITHIN TOLERABLE MANUFACTURERS LIMITS. THE COST FOR ADDITIONAL BENDS AND BLOCKING SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
- POLYETHYLENE WRAP:** ALL VALVES, DUCTILE IRON AND CAST IRON PIPE, FITTINGS AND SPECIALS SHALL BE POLYETHYLENE WRAPPED.
- ADJUSTMENTS:** THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL MANHOLES, CLEANOUTS, VALVES, BOXES, VAULTS AND HYDRANTS TO FINAL GRADE. THE COST SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
- APPURTENANCES:** ALL VALVES AND OTHER APPURTENANCES ON ALL FIRE PROTECTION LINES SHALL BE UL/FM APPROVED. THE COST SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
- FIRE PROTECTION WORK:** ALL FIRE PROTECTION WORK MUST BE PERMITTED AND APPROVED BY THE GOVERNING AUTHORITIES FIRE DEPARTMENT. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED PRESSURE TESTS ON THE FIRE PROTECTION LINES TO THE SATISFACTION OF THE FIRE MARSHALL FOR THE GOVERNING AUTHORITY AS WELL AS THE DEVELOPERS' INSURANCE CARRIER.
- SANITARY SEWER PIPE:** ALL SEWER PIPE SHALL BE SDR-35, IN ACCORDANCE WITH ASTM SPECIFICATIONS D-3034 FOR 4" THROUGH 15", AND ASTM F-879 FOR 15" THROUGH 27".
- WATER PIPE:** ALL WATER MAINS 4 INCH THROUGH 12 INCH SHALL BE C-900 (SDR - 18). WATER MAINS 14 INCH THROUGH 36 INCH SHALL BE C -905 (SDR - 18). ALL WATER PIPE SHALL BE CLASS 200.

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

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.
 Dallas, Texas 75243
 T 972.669.0915 F 972.669.0917

LANDSCAPE ARCHITECT:
 T.H. PRITCHETT / Associates
 Landscape Architects
 1218 Camino Lago
 Irving, Texas 75039
 T 972.869.3535 F 214.697.2580

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**

Δ	ISSUE	DATE	DESCRIPTION
1	JAM	09/09/10	ADDENDUM #1
2	JAM	09/27/10	CITY COMMENTS
12	JAM	05/24/11	AS BUILT DRAWINGS

RAA Project # : 1010
 Project Manager : MWL



C5.1b

UTILITY
 PLAN