



SANITARY SEWER NOTATION	
1	INSTALL: 6" PVC SANITARY SERVICE FL @ 5' OFF BUILDING=544.50
2	INSTALL: 1 - STD. 4' MANHOLE (4200 PSI PC) 1 - DBL. SEWER CLEANOUT TOP = 551.0 FL CONNECTION=537.10 (FIELD VERIFY)
3	INSTALL: 1 - STD. SEWER CLEANOUT TOP = 550.2 FL = 543.00
4	ADJUST: 1 - SANITARY SEWER MANHOLE TOP TOP = 552.0

WATER NOTATION	
1	CONNECT TO EX. 16" WATER LINE INSTALL: 237 LF 6" FIRE LINE 1 - 16"x8" TAPPING SLEEVE & VALVE 1 - 6" GATE VALVE WITH BOX 1 - DBL. CHECK TESTABLE BACKFLOW PREVENTER 1 - STD. BACKFLOW PREVENTER FIRELINE TO BE SIZED BY LICENSED FIRE SPRINKLER INSTALLER 1 - 6" 90° BEND W/THRUST BLOCK
2	CONNECT TO EX. 16" WATER LINE INSTALL: 354 LF 8" WATER LINE 1 - 16"x8" TAPPING SLEEVE & VALVE 1 - 8" GATE VALVE WITH BOX 1 - 6" 90° BEND
3	CONNECT TO EX. 16" WATER LINE INSTALL: 1 - DBL. CHECK TESTABLE BACKFLOW PREVENTER 1 - STD. 2" WATER METER 1 - STD. 2" DOM. WATER SERVICE
4	CONNECT TO EX. 16" WATER LINE INSTALL: 1 - DBL. CHECK TESTABLE BACKFLOW PREVENTER 1 - STD. 1" WATER METER 1 - STD. 1" IRRIGATION SERVICE
5	CONNECT TO PROP. 8" WATER LINE INSTALL: 10 LF 6" WATER LINE 1 - 8" x 6" REDUCER 1 - 6" GATE VALVE 1 - FIRE HYDRANT THRUST BLOCKING
6	NOT USED
7	CONNECT TO EX. 16" WATER LINE INSTALL: 63 LF 8" WATER LINE 5 LF 6" WATER LINE 1 - 16"x8" TAPPING SLEEVE & VALVE 1 - 8" GATE VALVE WITH BOX 1 - 6" GATE VALVE WITH BOX 1 - FIRE HYDRANT 1 - 8"x6" REDUCER THRUST BLOCKING

UTILITY NOTES							
WATER LINE GENERAL NOTES:							
1.	ALL WORK AND MATERIALS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR THE CITY OF ROCKWALL.						
2.	ALL 6", 8", 10", 12" WATER MAINS SHALL BE C-900, CLASS 200 WATER PIPE OR DR 14. FOR PVC SERVICE TAPS 1" AND LARGER, TAPPING SADDLES SHALL BE USED.						
3.	ALL WATER MAINS SHALL HAVE A MINIMUM COVER AS FOLLOWS: 6", 8", 10", AND 12": 48" BELOW FINISHED PAVEMENT GRADE, OR 60" BELOW EXISTING OR FINISHED GRADE IN UNPAVED AREAS, OR AS REQUIRED TO CLEAR OTHER UTILITIES.						
4.	EXTEND WATER DEADHEADS AND SANITARY SEWER LATERALS BEYOND PROPOSED CURB AS SHOWN ON THE WATER PLAN.						
5.	FIRE HYDRANTS TO BE CITY OF ROCKWALL APPROVED. APPROVED FIRE HYDRANTS ARE: M&H, WATEROUS, MULLER, AND CLOW.						
6.	VALVES TO BE CITY OF ROCKWALL APPROVED.						
7.	THE WATER METER BOX SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AFTER THE PAVING CONTRACTOR HAS COMPLETED THE FINE GRADING BEHIND THE BACK OF THE CURB. EACH SERVICE LOCATION WILL BE MARKED ON THE PAVEMENT OR CURB, WITH A BLUE DOT BY THE UTILITY CONTRACTOR AND TIED TO PROPERTY CORNERS ON THE "RECORD DRAWINGS."						
8.	THE CONTRACTOR SHALL FURNISH A MAINTENANCE BOND TO THE CITY TO RUN TWO (2) YEARS FROM THE DATE OF ACCEPTANCE OF THE WATER, STORM SEWER AND SANITARY SEWER IN PUBLIC EASEMENTS.						
9.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "RECORD DRAWINGS" PLANS TO THE ENGINEER SHOWING THE LOCATION OF WATER SERVICES AND VALVES.						
10.	FIRE HYDRANTS SHALL BE PAINTED AS PER CITY OF ROCKWALL STANDARDS AND SPECIFICATIONS AND LOCATED IN A PROTECTED AREA WITH 6" CURB OR BOLLARDS.						
11.	STEAMER NOZZLES ON FIRE HYDRANTS SHALL BE 18" ABOVE THE TOP OF THE CURB OR FINISHED GRADE, AND SHALL FACE THE CENTER OF THE FIRE LANE OR STREET. FIRE HYDRANTS SHALL BE LOCATED A MINIMUM TWO (2) FEET AND A MAXIMUM OF SIX (6) FEET BEHIND THE CURB.						
12.	ALL WATER LINES SHALL BE HYDROSTATICALLY TESTED PER CITY OF ROCKWALL STANDARDS AND SPECIFICATIONS.						
13.	ALL WATER LINES SHALL BE STERILIZED PER CITY OF ROCKWALL STANDARDS AND SPECIFICATIONS.						
14.	ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS AND PROTECTED BY 6" CURB OR BOLLARDS.						
15.	THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THAT NECESSARY CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO THE CONSTRUCTION OF ANY SUCH CROSSING.						
16.	UTILITY TRENCHES SHALL BE BACKFILLED WITH MATERIAL PER CITY OF ROCKWALL SPECIFICATIONS.						
17.	ANCHOR FITTINGS SHALL BE USED TO ATTACH FIRE HYDRANTS.						
18.	NO WATER JETTING OF BACKFILL ALLOWED.						
19.	NO COMPRESSION FITTING ALLOWED.						
SANITARY SEWER GENERAL NOTES:							
1.	ALL WORK, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE CITY OF ROCKWALL STANDARD SPECIFICATIONS.						
2.	THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA RECORDED BY OTHERS. CONTRACTOR SHALL VERIFY THAT NECESSARY CROSSING CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO CONSTRUCTION OF ANY SUCH CROSSING.						
3.	CONTRACTOR SHALL COORDINATE WITH THE OWNER, ENGINEER OR HIS REPRESENTATIVE, AND CITY REPRESENTATIVE REGARDING ANY DEVIATIONS FROM THESE PLANS.						
4.	CONTRACTOR SHALL MAINTAIN ONE SET OF RECORD DRAWINGS (AS BUILT) ON SITE WHICH WILL BE SUBMITTED TO ENGINEER UPON COMPLETION OF THIS PROJECT.						
5.	IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT: ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, SEWER LATERALS, WATER SERVICES, ETC.						
6.	THE CONTRACTOR SHALL SET UTILITIES TO PROPER LINE AND GRADE PRIOR TO THE PLACING OF PERMANENT PAVEMENT.						
7.	SANITARY SEWER PIPE SHALL CONFORM TO CITY SPECIFICATIONS AND SHALL BE MANUFACTURED FROM ONE OF THE FOLLOWING MATERIALS: <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">A. POLYVINYL/CHLORIDE (PVC)</td> <td style="text-align: center;">DIAMETER</td> <td style="text-align: center;">(DEPTH LESS</td> </tr> <tr> <td style="text-align: center;">ASTM D 3034</td> <td style="text-align: center;">SDR 35</td> <td style="text-align: center;">4" - 15" THAN 10 FEET)</td> </tr> </table>	A. POLYVINYL/CHLORIDE (PVC)	DIAMETER	(DEPTH LESS	ASTM D 3034	SDR 35	4" - 15" THAN 10 FEET)
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ASTM D 3034	SDR 35	4" - 15" THAN 10 FEET)					
8.	SANITARY SEWER PIPE MUST BE KEPT CLEAN OF BROKEN CONCRETE, DIRT OR OR ANY OTHER DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS.						
9.	ALL SANITARY SEWER MAINS ARE TO HAVE 1'-21" JOINT CENTERED ON EITHER SIDE OF WATER MAINS WHERE CROSSING OCCURS.						
10.	CONTRACTOR SHALL TIE A 1" WIDE PIECE OF RED PLASTIC FLAGGING TO THE END OF SEWER SERVICE AND SHALL LEAVE A MINIMUM OF 36" OF FLAGGING EXPOSED AFTER BACKFILL. AFTER CURB AND PAVING IS COMPLETED, CONTRACTOR SHALL MARK THE LOCATION OF THE SEWER SERVICE ON THE CURB IN ACCORDANCE WITH THE STANDARD CITY SPECIFICATIONS.						
11.	THE CONTRACTOR SHALL FURNISH A MAINTENANCE BOND TO THE CITY TO RUN 2 YEARS FROM THE DATE OF THE FINAL ACCEPTANCE OF THE WATER, STORM SEWER AND SANITARY SEWER IN PUBLIC EASEMENTS.						
12.	ALL SANITARY SEWER LATERALS SHALL BE SIZED AND LOCATED AS SHOWN.						
13.	NO WATER JETTING OF BACKFILL ALLOWED.						
14.	SEE MEP PLAN FOR GREASE TRAP.						

LEGEND	
+ETP600.0	EX. TOP OF PVMT.
+ETG600.0	EX. TOP OF GRND.
+ETC600.0	EX. TOP OF CURB
+600.0	FIN.FLR. SPOT ELEV.
TP600.0	TOP OF PAVEMENT
TC600.0	TOP OF CONCRETE
TG600.0	TOP OF GROUND
600.0	TOP OF CURB
-650-	PROP. GRADE LINE
-650-	EX. GRADE LINE
FF	FINISHED FLOOR
↑	GUY WIRE ANCHOR
∅	POWER POLE
∩	STREET/CABLE SIGN
⊙	WATER VALVE
⊠	UTILITY BOX
⊙	WOOD BOLLARD
⊙	GAS METER
⊠	CURB INLET
⊠	GRATE INLET
⊙	FIRE HYDRANT
⊙	WATER METER
⊙	STORM/SS MANHOLE
⊙	TREE
⊙	LIGHT POLE
⊙	SIGNAL POLE
⊠	SIGNAL PULL BOX

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 DATE SIGNED: 3/20/04

A New Site Design for
 ROCKWALL TOWNE CENTRE, REPLAT
 SHAFER PROPERTIES
 ROCKWALL, TEXAS
 UTILITY PLAN

SCALE:
 Horizontal: 1" = 30'
 Vertical: N/A
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

Project No.: ESPC002
 Date: 03/29/04
 Issue: AS BUILT
 Drawn By: JMC
 Checked By: JMC
 Revisions: RELOCATED FH & FIRE LINE
 05/19/2003

SHEET
C1.07