

SUMMARY OF ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION - ROCKWALL I.S.D. SECTION	UNIT	QUANTITY
1	MOBILIZATION	LS	1
2	16" PVC WATER MAIN (LINE "C")	LF	1331
3	16" BUTTERFLY VALVES	EA	5
4	4" FLUSH POINTS	EA	3
5	16"x20" TEE	EA	1
6	16"x8" TEE	EA	2
7	16" PLUGS	EA	2
8	CONCRETE ENCASEMENT OF 16" WATER MAIN	LF	50
9	CONNECTION TO EXISTING 8" WATER MAIN	EA	2
10	20" PVC WATER MAIN (LINE "A")	LF	1289
11	20" BUTTERFLY VALVES	EA	2
12	20" x 6" TEE	EA	2
13	6" PVC WATER MAIN	LF	16
14	6" GATE VALVE	EA	2
15	FIRE HYDRANTS	EA	2
16	THRUST BLOCKS	LS	1
17	20" 45° VERTICAL BENDS	EA	4
18	16" 45° VERTICAL BENDS	EA	2
ITEM NO.	DESCRIPTION - CITY OF ROCKWALL SECTION	UNIT	QUANTITY
1	MOBILIZATION	LS	1
2	20" PVC WATER MAIN (LINE "A")	LF	4440
3	20" BUTTERFLY VALVES	EA	7
4	16" BUTTERFLY VALVES	EA	1
5	16"x20" TEE	EA	1
6	20"x6" TEE	EA	9
7	20"x20" TEE	EA	1
8	CONCRETE ENCASEMENT OF 20" WATER MAIN	LF	50
9	20" x 6" TEE	EA	9
10	6" PVC WATER MAIN	LF	72
11	6" GATE VALVE	EA	9
12	FIRE HYDRANT	EA	9
13	20" 45° VERTICAL BENDS	EA	4
14	20" - 90° HORIZONTAL BEND	EA	1
15	CONNECTION TO EXISTING 16" MAIN	EA	1
16	30± L.F. BORING FOR 20" WATER MAIN	LS	1

NOTE: CONTRACTOR TO VERIFY QUANTITIES

WATER NOTES:

1. WATER DISTRIBUTION SYSTEM MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE CITY OF ROCKWALL WATER SUPPLY STANDARDS.
2. CONCRETE BLOCKING SHALL BE INSTALLED AT ALL BENDS, VALVES, AND FIRE HYDRANTS. MEGALUGS OR EQUAL TO BE INSTALLED AT ALL CHANGES IN DIRECTION (VERTICAL OR HORIZONTAL) SUBSIDIARY TO PIPE.
3. ALL MAINS SHALL BE BURIED A MINIMUM DEPTH OF 42" BELOW TOP OF EXISTING GRADE OR AS DIRECTED BY THE ENGINEER.
4. 16" AND 20" WATER PIPE SHALL BE PVC CLASS 230 C 905
6" AND 8" WATER PIPE SHALL BE PVC CLASS 200 C 900
5. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO COMMENCING CONSTRUCTION. DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
6. ALL FIRE HYDRANTS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF ROCKWALL. CONTRACTOR SHALL NOTIFY ROCKWALL FIRE DEPARTMENT PRIOR TO PLACING OF PIPE TO ARRANGE FOR REQUIRED INSPECTIONS.
7. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING WATER VALVES PRIOR CONNECTION TO EXISTING WATER SYSTEM.
8. EMBEDMENT FOR WATER MAIN PER COG SPECS AND DETAILS ON SHEET C.2.10

NTMWD NOTES:

- A. NORTH TEXAS MUNICIPAL WATER DISTRICT (NTMWD) 30-INCH WATER TRANSMISSION PIPELINE IS LOCATED WITHIN THE LIMITS OF CONSTRUCTION.
- B. OPERATION OF HEAVY EARTHMOVING EQUIPMENT, COMPACTION EQUIPMENT OR HEAVY CONSTRUCTION EQUIPMENT, SUCH AS CONCRETE TRUCKS, SHALL BE RESTRICTED TO SPECIFIC CROSSING POINTS ACROSS NTMWD EASEMENTS, AS APPROVED BY THE NTMWD. THE CROSSINGS SHALL BE DESIGNATED AND VERIFIED TO PROVIDE A MINIMUM OF FIVE-FEET OF COVER.
- C. TO ASSURE THAT PLACING OF SIGNIFICANT LOADS OVER THE NTMWD PIPELINE DOES NOT DAMAGE THE EXISTING PIPELINE, NO MATERIALS SHALL BE STOCKPILED ON THE NTMWD EASEMENT WITHOUT AUTHORIZATION FROM THE NTMWD. IF THE CONTRACTOR DESIRES TO USE NTMWD'S EASEMENT FOR STOCKPILE OF MATERIALS, CONTACT NTMWD ENGINEERING AT 972 - 442-4505 SO YOUR PLANS FOR USE CAN BE REVIEWED.
- D. IN AREAS WHERE THE COVER BETWEEN THE TOP OF NTMWD PIPELINE AND THE BOTTOM OF THE SUBGRADE IS THREE (3) FEET OR LESS, IT IS REQUESTED THAT THE SUB-GRADE PREPARATION BE DELETED AND A THICKENED PAVEMENT SECTION BE USED TO LIMIT CONSTRUCTION ACTIVITIES OVER THE PIPELINE.
- E. CROSSING OF THE NTMWD EASEMENT WITH OTHER UTILITIES, SUCH AS TV CABLE, PHONE, GAS, AND ELCTRIC, SHALL BE COORDINATED WITH THE NTMWD TO AVOID DAMAGE TO THE NTMWD FACILITIES.
- F. OUTDOOR LIGHTING, LANDSCAPING, SCREENING WALLS OR OTHER FACILITES SHALL NOT BE INSTALLED IN NTMWD EASEMENTS WITHOUT WRITTEN APPROVAL OF THE NTMWD.
- G. UNLESS OTHERWISE SHOWN OR REQUIRED, A MINIMUM OF ONE-FOOT CLEARANCE SHALL BE PROVIDED FORA LL UTILITIES CROSSING THE NTMWD PIPELINES.
- H. WATER AND SEWER LINES CROSSING TH NTMWD EASEMENT SHALL BE INSTALLED IN COMPLIANCE WITH THE RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS PARAGRAPH 290.44(E), LOCATION OF WATER LINES.

BENCH MARK:

#1 CITY OF ROCKWALL MONUMENT R008, 8d NAIL W/SHINER IN POWER POLE, LOCATED IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF S.H. 205 AND F.M. 552 AND DALTON ROAD APPROXIMATELY 26' SOUTH OF THE CENTERLINE OF DALTON ROAD, AND 133.5' WEST OF THE CENTERLINE OF S.H. 205. ELEVATION = 542.34

GLENN ENGINEERING

PHONE 972-717-5151 FAX 972-719-4229
100 DECKER COURT - SUITE 250 IRVING, TEXAS 75062

FINAL PLANS FOR BIDDING AND CONSTRUCTION



SHW Group Inc.
Architects + Engineers

SHEET NUMBER **C**
OF **2.01**
SET NUMBER

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DATE: SEPTEMBER 12, 2002
DRAWN BY: TJC
CHECKED: RAH
COM NO: 144101044
REVISED:

16" & 20" WATER LINE CONSTRUCTION
ROCKWALL INDEPENDENT SCHOOL DISTRICT
ROCKWALL, TEXAS