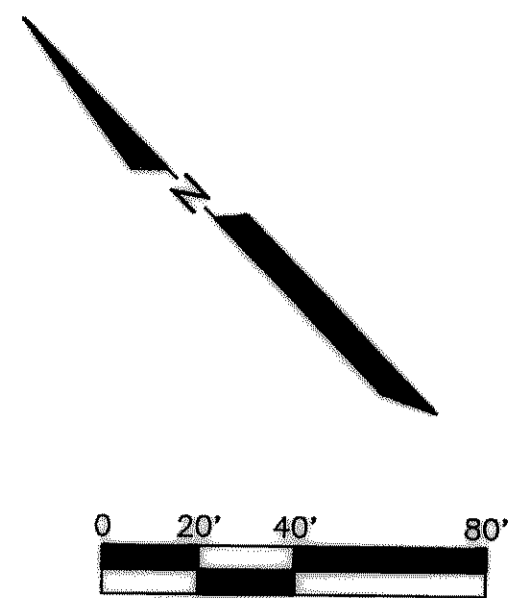


F.M. 3097 (HORIZON RD.)
(100' RIGHT-OF-WAY)



- LEGEND**
- F.H. FIRE HYDRANT
 - CHISELED "X" SET
 - F.X. CHISELED "X" FOUND
 - F.I.R. IRON ROD FOUND (SIZE AS NOTED)
 - O.U.P. OVERHEAD UTILITY POLE W/ GUY
 - U.E. UNDERGROUND ELECTRIC OR TELEPHONE
 - L.P. LIGHT POLE (EX)
 - S.S.M. SANITARY SEWER MANHOLE (EX)
 - S.S.W. SAN. SWR. CLEAN OUT (EX)
 - G.V. GAS VALVE (EX)
 - W.V. WATER VALVE (EX)
 - T. TREE
 - PROP. COMBINATION GRATE INLET
 - PROP. DROP INLET
 - PROP. CURB INLET
 - PROP. SIGNAGE (H.C.)
 - PAINTED HANDICAP SYMBOL
 - PAINTED STRIPING @ ACCESS ROUTES
 - PROP. S.S.
 - PROP. WTR.
 - DOUBLE CLEANOUT
 - PROP. STM. SWR.
 - ⊗ WATER METER
 - ⊗ BACKFLOW PREVENTOR
 - G.V.
 - PROP. S.S. M.H.
 - PROP. FIRE HYDRANT
 - EXISTING STM. SEWER
 - EXISTING S.S.
 - EXISTING WTR.
 - C.C.O. PROP. DOUBLE CLEAN OUT

MATCH LINE SEE SHEET C-17

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: LATERALS, WATER SERVICE, VALVE BOXES, FIRE HYDRANTS, SEWER LATERALS, WATER SERVICE, 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:
a. Polyvinyl/Chloride (PVC) Green Diameter
ASTM D 3034 SDR 35 4" - 15"
8. SANITARY SEWER PIPE MUST BE KEPT CLEAN OF BROKEN CONCRETE, DIRT 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. THIS JOINT MUST HAVE A 150 PSI PRESSURE RATING IF THE VERTICAL SEPARATION IS LESS THAN TWO FEET.
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 10% MAINTENANCE BOND TO THE CITY TO RUN 2 YEARS FROM THE DATE OF FINAL ACCEPTANCE OF THE WATER, STORM SEWER & SANITARY SEWER IN PUBLIC EASEMENTS. THE CITY ALSO REQUIRED A 12 MONTH & 20 MONTH WALK OVER TO DETERMINE IF ANY REPAIRS NEED TO BE ADDRESSED BEFORE THE TWO YEARS ARE UP.
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.
15. GREEN EMS DISKS SHALL BE INSTALLED AT EVERY MANHOLE, CLEAN OUT & SERVICE.

WATER LINE GENERAL NOTES:

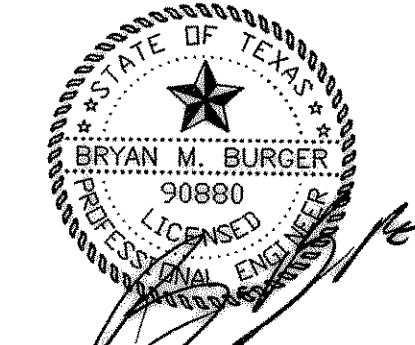
1. ALL WORK AND MATERIALS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR CITY OF ROCKWALL.
2. ALTERNATE - ALL 6", 8", 10", AND 12" WATER MAINS SHALL BE BLUE PVC (AWWA C900) OR 14" CLASS 200 WATER PIPE FOR PVC SERVICE TAPS 1" AND LARGER, TAPPING SADDLES SHALL BE USED.
3. ALL WATER MAINS SHALL HAVE MINIMUM COVER AS FOLLOWS: 6", 8", 10", AND 12" 48" BELOW 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, MULLIER, & 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 & SANITARY SEWER IN PUBLIC EASEMENTS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "RECORD DRAWING" PLANS TO THE ENGINEER SHOWING THE LOCATION OF WATER SERVICES AND VALVES.
10. FIRE HYDRANTS SHALL BE PAINTED AND GREASED 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 MIN. TWO (2) 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 FITTINGS ALLOWED.
20. MEGA LUGS SHALL BE USED ON ALL BENDS, TEES AND CHANGES IN VERTICAL DIRECTIONS.
21. ALL FIRE LINES ARE TO BE INSTALLED & SIZED BY A LICENSED FIRE SPRINKLER CONTRACTOR.
22. ALL FIRE HYDRANTS SHALL HAVE 5' CLEARANCE AROUND HYDRANT.
23. BLUE EMS DISKS SHALL BE INSTALLED AT EVERY CHANGE IN DIRECTION, VALVE & SERVICE.

NOTE:

1. REF. ARCHITECTURAL PLANS FOR GREASE TRAP LOCATION & UTILITY SERVICE CONTINUATIONS
2. CONTRACTOR TO INSTALL DOUBLE CLEANOUT AT EASEMENT LINE OR AS CLOSE TO PUBLIC ACCESS AS POSSIBLE. (ALL PRIVATE SEWER LATERALS)

BENCH MARK:
BOX CUT IN NW CURB RETURN AT THE INTERSECTION OF WESTWOOD AND ROCKWALL PARKWAY.
ELEVATION = 537.56

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BRYAN M. BURGER, P.E. 90880 ON 9/24/05



2	5-02-05	ISSUED FOR CONSTRUCTION
1	3-22-05	ADDITIONAL FIRE HYDRANT, ELIMINATE 2" W.S. TO RETAIL B. & ADJUSTED HYDRANT LOCATION.
REV	DATE	REMARKS
WATER & SANITARY SEWER PLAN		
LOTS 6, 17, 18 & 19, BLOCK A		
HORIZON RIDGE ADDITION		
THE CITY OF ROCKWALL, TEXAS		
LAWRENCE A. CATES & ASSOC., LLP 14800 QUORUM DRIVE, SUITE 200 DALLAS, TEXAS (972) 385-2272		CONSULTING ENGINEERS
DESIGN	DRAWN	DATE
LAC	LAC	01/28/05
SCALE	NOTES	FILE
1"=40'	D.P.	24104 WATSEW2
		NO.
		C-16