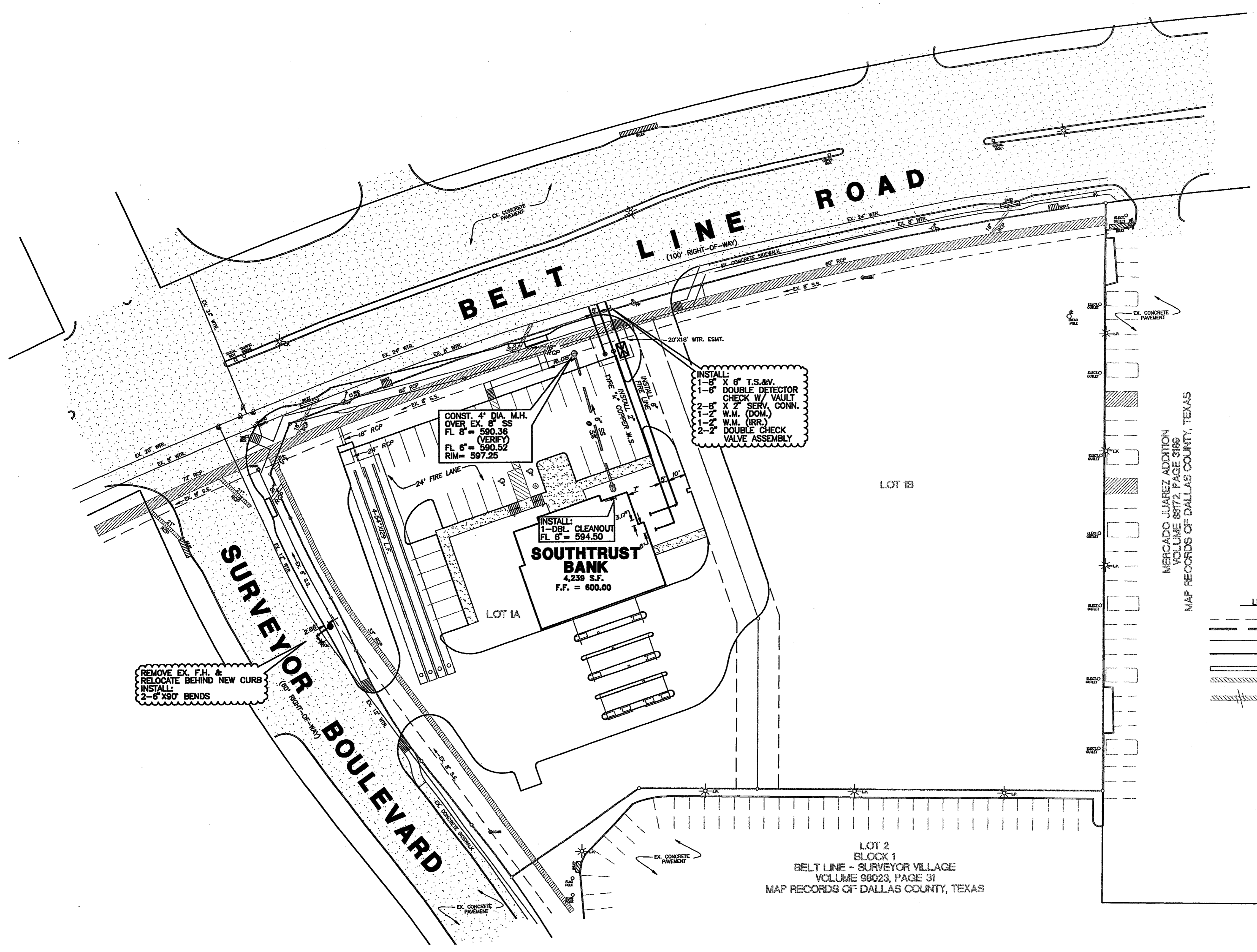
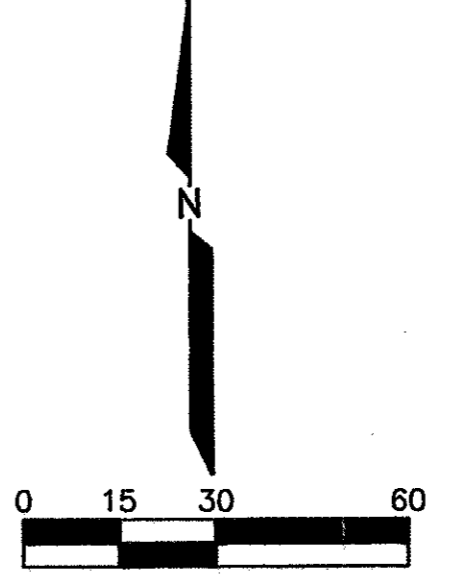


WATER LINE GENERAL NOTES

1. ALL WORK AND MATERIALS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR THE CITY.
2. ALTERNATE - ALL 6", 8", 10" AND 12" WATER MAINS SHALL BE PVC AWWA C900, DR 14, CLASS 200 WATER PIPE. FOR PVC SERVICE TAPS 1" AND LARGER, TAPPING SADDLES SHALL BE USED. FIRE LINES SHALL BE 6309, CLASS 200 MINIMUM.
3. ALL WATER MAINS SHALL HAVE 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. FIRE HYDRANTS TO BE CITY APPROVED. APPROVED FIRE HYDRANTS ARE: MAH, MULLER, & AVK.
5. VALVES TO BE CITY APPROVED.
6. THE WATER METER BOX SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AFTER THE PAVING CONTRACTOR HAS COMPLETED THE FINE GRADING BEHIND 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."
7. THE CONTRACTOR SHALL FURNISH A MAINTENANCE BOND TO THE CITY TO RUN TWO (2) YEARS FROM THE DATE OF ACCEPTANCE OF THE SYSTEM BY THE CITY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "RECORD DRAWING" PLANS TO THE ENGINEER & TOWN OF ADDISON SHOWING THE LOCATION OF WATER SERVICES AND VALVES.
9. FIRE HYDRANTS SHALL BE PAINTED AS PER CITY STANDARDS AND SPECIFICATIONS AND LOCATED IN A PROTECTED AREA WITH 6" CURB OR BOLLARDS.
10. STEAMER NOZZLES ON FIRE HYDRANTS SHALL BE 18" ABOVE THE TOP OF THE CURB ON FINISHED GRADE, AND SHALL FACE THE CENTER OF THE FIRE LANE OR STREET. FIRE HYDRANTS SHALL USUALLY BE LOCATED FOUR (4) FEET, BUT NOT LESS THAN TWO (2) FEET NOR MORE THAN SIX (6) FEET, BEHIND THE CURB.
11. ALL WATER LINES SHALL BE HYDROSTATICALLY TESTED PER CITY STANDARDS AND SPECIFICATIONS.
12. ALL WATER LINES SHALL BE STERILIZED PER CITY STANDARDS AND SPECIFICATIONS.
13. ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS.
14. 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.
15. UTILITY TRENCHES SHALL BE BACKFILLED WITH MATERIAL PER TOWN OF ADDISON SPECIFICATIONS.
16. ANCHOR FITTINGS SHALL BE USED TO ATTACH FIRE HYDRANTS.
17. ALL WATER SERVICES OUTSIDE OF EASEMENTS SHALL BE INSTALLED BY A PLUMBER.
18. CONTRACTOR TO INCLUDE ALL CITY REQUIRED MAINTENANCE BOND, INSPECTION, TAP, AND METER FEES IN BID. OWNER TO PAY IMPACT FEES.
19. NO WATER JETTING OF BACKFILL ALLOWED.
20. MEGA LUGS SHALL BE USED ON ALL BENDS, TEES, AND CHANGES IN DIRECTION.
21. FIRE LINES TO BE SIZED AND INSTALLED BY STATE OF TEXAS LICENSED FIRE SPRINKLER CONTRACTOR.

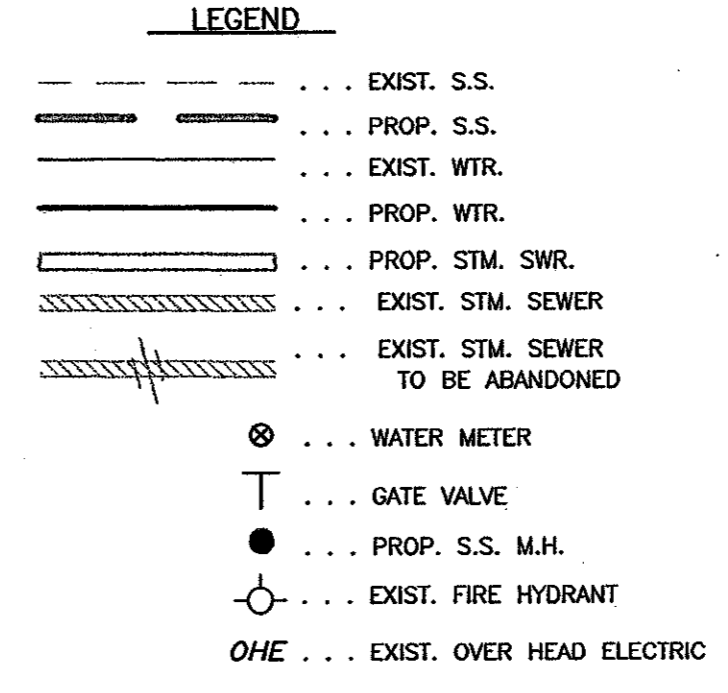


REMOVE EX. F.H. & RELOCATE BEHIND NEW CURB
INSTALL:
2-6" 90° BENDS

CONST. 4" DIA. M.H. OVER EX. 8" SS
FL 8" = 590.38 (VERIFY)
FL 6" = 590.52
RIM = 597.25

INSTALL:
1-6" X 6" T.S.M.V. DOUBLE DETECTOR CHECK W/ VAULT
2-6" X 2" SERV. CONN. W.M. (DOM.)
1-2" W.M. (IRR.)
2-2" DOUBLE CHECK VALVE ASSEMBLY

INSTALL:
1-DBL CLEANOUT
FL 6" = 594.50

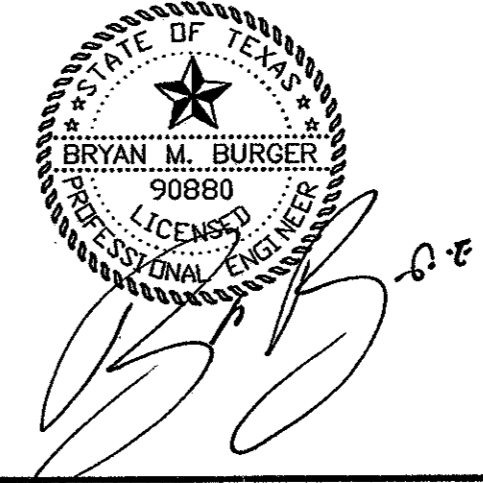


NOTE: ALL DIMENSION ARE TO FACE OF CURB UNLESS OTHERWISE NOTED

SANITARY SEWER GENERAL NOTES

1. ALL WORK, UNLESS OTHERWISE NOTED, SHALL CONFORM TO N.C.T.C.O.G. & THE TOWN OF ADDISON 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 THE ENGINEER & TOWN OF ADDISON 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 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) Diameter 4" - 15" ASTM D 3034 SDR 35
8. SANITARY SEWER PIPE MUST BE KEPT CLEAR OF BROKEN CONCRETE, DIRT OR ANY OTHER DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS.
9. ALL SANITARY SEWER MAINS ARE TO HAVE 1-2' JOINT CENTERED ON EITHER SIDE OF WATER MAINS WHERE CROSSING OCCUR.
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 TWO (2) YEARS FROM THE DATE OF FINAL ACCEPTANCE OF THE SYSTEM BY THE CITY.
12. ALL SANITARY SEWER LATERALS SHALL BE SIZED AND LOCATED AS SHOWN.
13. ALL SANITARY SEWER LATERALS LOCATED OUTSIDE OF ESMTS SHALL BE INSTALLED BY A PLUMBER.
14. CONTRACTOR TO INCLUDE ALL REQD. BONDS, TAP FEES, CAMERA FEES IN PROPOSAL.
15. ALL PROPOSED MANHOLES SHALL BE VACUUM TESTED.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BRYAN M. BURGER, P.E. 90880 ON 5/27/01



REV	DATE	REMARKS				
WATER & SANITARY SEWER PLAN						
SOUTHTRUST BANK						
BELT LINE - SURVEYOR VILLAGE ADDITION						
TOWN OF ADDISON, TEXAS						
LAWRENCE A. CATES & ASSOC., LLP 14200 MIDWAY ROAD, SUITE 122		CONSULTING ENGINEERS DALLAS, TEXAS (972) 385-2272				
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BMB	JWV	FEB-04	1"=30'	D.P.	24001 WATSEW	C-8