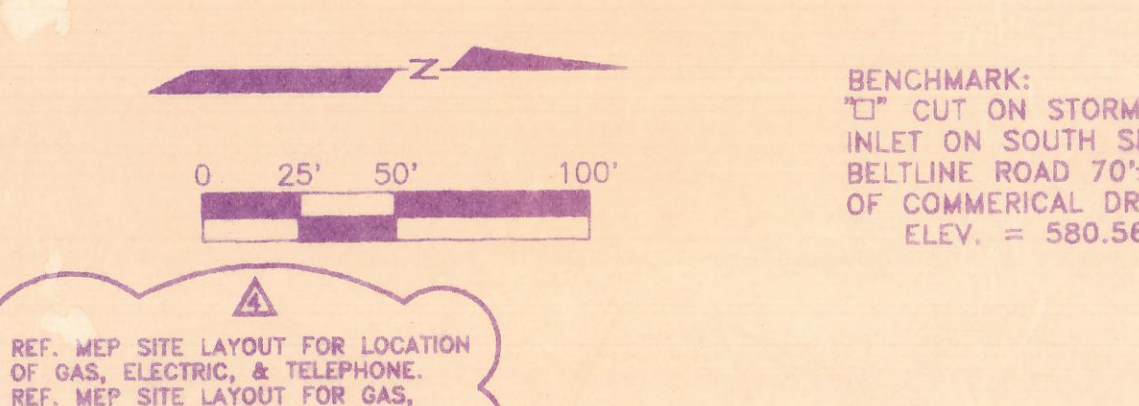


- SANITARY SEWER GENERAL NOTES**
- ALL WORK, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE TOWN OF ADDISON STANDARD SPECIFICATIONS.
 - THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA RECORDED BY OTHERS. CONTRACTOR SHALL VERIFY THAT NECESSARY CROSSING CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO CONSTRUCTION OF ANY SUCH CROSSING.
 - CONTRACTOR SHALL COORDINATE WITH THE OWNER, ENGINEER OR HIS REPRESENTATIVE AND TOWN REPRESENTATIVE REGARDING ANY DEVIATIONS FROM THESE PLANS.
 - CONTRACTOR SHALL MAINTAIN ONE SET OF RECORD DRAWINGS (AS BUILT) ON SITE WHICH WILL BE SUBMITTED TO KSMART OR ENGINEER UPON COMPLETION OF THIS PROJECT. THE LOCATION OF FINAL SERVICE LOCATIONS WILL BE SHOWN.
 - 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.
 - THE CONTRACTOR SHALL SET UTILITIES TO PROPER LINE AND GRADE PRIOR TO THE PLACING OF PERMANENT PAVING.
 - SANITARY SEWER PIPE SHALL CONFORM TO TOWN SPECIFICATIONS AND SHALL BE MANUFACTURED FROM ONE OF THE FOLLOWING MATERIALS:
 - a. Polyethylene (PE) 4" - 12"
 - b. Polypropylene (PP) 4" - 12"
 - c. Polyvinyl Chloride (PVC) 4" - 12"
 - d. ASTM D 3034 SDR 35
 - e. (SEE NOTE 13)
 - SANITARY SEWER PIPE MUST BE KEPT CLEAR OF BROKEN CONCRETE, DIRT OR ANY OTHER DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS.
 - ALL SANITARY SEWER MAINS ARE TO HAVE 1'-2" JOINT CENTERED ON EITHER SIDE OF WATER MAINS WHERE CROSSING OCCUR.
 - CONTRACTOR SHALL TIE A 1" WIDE PIECE OF RED PLASTIC FLAGGING TO THE END OF SEWER SERVICE AND SHALL LEAVE A MINIMUM OF 4" 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 TOWN SPECIFICATIONS.
 - THE CONTRACTOR SHALL FURNISH A MAINTENANCE BOND TO THE TOWN TO RUN 1 YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE SYSTEM BY THE TOWN OF ADDISON.
 - ALL SANITARY SEWER LATERALS SHALL BE SIZED AND LOCATED AS SHOWN.
 - ALL SANITARY SEWER LINES IN EXCESS OF 10 FEET DEPTH WILL BE SDR 26.
 - ALL MANHOLES WILL BE INSTALLED WITH INSERTS.

- WATER LINE GENERAL NOTES**
- ALL WORK AND MATERIALS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR TOWN OF ADDISON.
 - BASE BID - ALL 6", 8", 10" AND 12" WATER MAINS SHALL BE PVC AWMA C900, DR 18, CLASS 150, WATER PIPE. FOR PVC SERVICE TAPPING SAZOLCS SHALL BE USED.
 - ALL WATER MAINS SHALL HAVE MINIMUM COVER AS FOLLOWS: 6", 8", 10", AND 12" 48" BELOW FINISHED GRADE UNLESS OTHERWISE SPECIFIED OR AS REQUIRED TO CLEAR OTHER UTILITIES.
 - EXTEND WATER DEADHEADS AND SANITARY SEWER LATERALS BEYOND PROPOSED CURB AS SHOWN ON THE WATER PLAN.
 - FIRE HYDRANTS TO BE TOWN OF ADDISON APPROVED (MUELLER CENTURION MODEL).
 - VALVES TO BE TOWN OF ADDISON APPROVED.
 - THE WATER METER BOX SHALL BE FINISHED 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".
 - THE CONTRACTOR SHALL FURNISH A MAINTENANCE BOND TO THE TOWN TO RUN 1 YEAR FROM THE DATE OF ACCEPTANCE OF THE SYSTEM BY THE TOWN.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "RECORD DRAWING" PLANS TO THE ENGINEER SHOWING THE LOCATION OF WATER SERVICES AND VALVES.
 - FIRE HYDRANTS SHALL BE PAINTED AS PER TOWN OF ADDISON STANDARDS AND SPECIFICATIONS AND LOCATED IN A PROTECTED AREA WITH 4" CURB OR BOLLARDS.
 - 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.
 - ALL WATER LINES SHALL BE HYDROSTATICALLY TESTED PER TOWN OF ADDISON STANDARDS AND SPECIFICATIONS.
 - ALL WATER LINES SHALL BE STERILIZED PER TOWN OF ADDISON STANDARDS AND SPECIFICATIONS.
 - ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS AND PROTECTED BY 6" CURB OR BOLLARDS.
 - 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. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE AS TO WHETHER ADDITIONAL FACILITIES EXIST.
 - UTILITY TRENCHES SHALL BE BACKFILLED WITH MATERIAL PER TOWN OF ADDISON SPECIFICATIONS (95% STANDARD PROCTOR DENSITY).
 - ANCHOR FITTINGS SHALL BE USED TO ATTACH FIRE HYDRANTS.
 - ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC., MUST BE ADJUSTED TO PROPER LINE AND GRADE BY CONTRACTOR AFTER PLACEMENT OF PERMANENT PAVING.
 - A NO. 12 PLASTIC COATED WIRE SHALL BE PLACED IN THE TRENCH OVER ALL WATER LINES. THE WIRE SHALL BE TIED TO ALL VALVES AND FIRE HYDRANTS AND ATTACHED DIRECTLY TO THE TOP OF PIPE AND EXTENDED TO SIX INCHES ABOVE FINISHED GRADE ALONG THE OUTSIDE OF ALL VALVE STACKS AND FIRE HYDRANTS.
 - ALL LOCATION DIMENSIONS SHOWN ARE CENTERLINE OF PIPE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH SAFETY DESIGN AND DETAILS AS REQUIRED, AND SHALL SUBMIT ENGINEERED DESIGN TO THE ENGINEER FOR REVIEW AND APPROVAL.
 - CONTRACTOR SHALL KEEP WATER AND ELECTRICAL SERVICES TO THE EXISTING LANDSCAPE MEANS IN SERVICE AT ALL TIMES DURING CONSTRUCTION. IF THE CONSTRUCTION OF THE PROJECT REQUIRES THE RELOCATION OF EXISTING CITY LANDSCAPE FEATURES INCLUDING METERS, VALVES, LINES, ETC., THIS WORK WILL BE COMPLETED BY A LICENSED IRRIGATION AND/OR ELECTRICIAN AT THE CONTRACTOR'S EXPENSE.



As Built (December 15, 1999)

17/02/99	ADD. DETECTOR CHECKS
17/02/99	ADD. WATER LINE TO LOT 1 (RITC)
17/02/99	ADD. WATER LINE TO LOT 1 (TRK)
17/02/99	ADD. FIRE HYDRANT LOCATIONS
17/02/99	ADD. FIRE HYDRANT LOCATIONS
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17/02/99	ADD. FIRE HYDRANT LOCATIONS

WATER AND SEWER PLAN

KMART # 4885

ADDISON TOWNE CENTER

TOWN OF ADDISON, TEXAS

LAWRENCE A. CATES & ASSOCIATES, INC. CONSULTING ENGINEERS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	04/07/93	1"=50'	D.P.	91012	C-5

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY LAWRENCE A. CATES, P.E. 41838

LAWRENCE A. CATES
REGISTERED PROFESSIONAL ENGINEER