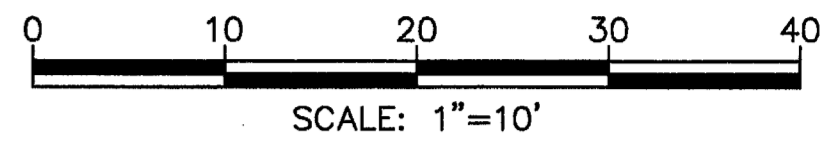


SSMH RIM=639.24
 FL 10" in W=629.90
 FL 10" in E=629.84
 FL 12" in S=629.61
 FL 12" out N=629.59



UTILITY GENERAL NOTES:

1. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL BE CLASS "A", (3000 psi)
2. SANITARY SEWER PIPE SHALL BE PVC SDR-35.
3. WHEN WATER MAINS AND SANITARY SEWERS ARE INSTALLED, THEY SHALL BE INSTALLED NO CLOSER TO EACH OTHER THAN NINE FEET IN ALL DIRECTIONS AND PARALLEL LINES MUST BE INSTALLED IN SEPARATE TRENCHES. WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING GUIDELINES APPLY:
 - A. WHERE A SANITARY SEWER PARALLELS A WATERLINE, THE SEWER SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC MEETING ASTM SPECIFICATIONS WITH A PRESSURE RATING FOR BOTH THE PIPE AND JOINTS OF 150 psi. THE VERTICAL SEPARATION SHALL BE A MINIMUM OF FOUR FEET BETWEEN OUTSIDE DIAMETERS. THE SEWER SHALL BE LOCATED BELOW THE WATERLINE.
 - B. WHERE A SANITARY SEWER CROSSES A WATERLINE AND THE SEWER IS CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC WITH A MINIMUM PRESSURE RATING OF 150 psi, AN ABSOLUTE MINIMUM DISTANCE OF SIX INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. IN ADDITION, THE SEWER PIPE MUST BE CENTERED ON THE WATERLINE.
 - C. WHERE A SEWER CROSSES UNDER A WATERLINE AND THE SEWER IS CONSTRUCTED OF ABS TRUSS PIPE, SIMILAR SEMI-RIGID PLASTIC COMPOSITE PIPE, CLAY PIPE OR CONCRETE PIPE WITH GASKETED JOINTS, A MINIMUM TWO FOOT SEPARATION DISTANCE SHALL BE MAINTAINED. IN ADDITION, THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE SHALL BE CENTERED ON THE WATERLINE.
 - D. WHERE A SEWER CROSSES OVER A WATERLINE ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATERLINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC PIPE WITH A PRESSURE RATING AT LEAST 150 psi USING APPROPRIATE ADAPTERS. IN LIEU OF THIS PROCEDURE, THE NEW CONVEYANCE MAY BE ENCASED IN A JOINT OF 150 psi PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE FEET INTERVALS WITH SPACERS OR BE FILLED TO THE SPRING LINE WITH WASHED SAND. THE ENCASEMENT PIPE SHOULD BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OF MANUFACTURED SEAL.
 - E. THE SEWER NEED NOT BE DISTURBED WHERE A NEW WATERLINE IS TO BE INSTALLED PARALLEL TO AN EXISTING SEWER THAT SHOWS NO EVIDENCE OF LEAKAGE AND THE WATERLINE IS INSTALLED ABOVE THE SEWER A MINIMUM OF TWO FEET VERTICALLY AND FOUR FEET HORIZONTALLY. SHOULD EXCAVATION FOR THE WATERLINE PRODUCE EVIDENCE THAT THE SEWER IS LEAKING, THE SEWER MUST BE REPAIRED OR REPLACED AS DESCRIBED IN SUBPARAGRAPHS A OR D OF THIS PARAGRAPH.
 - F. THE SEWER NEED NOT BE DISTURBED WHERE A NEW WATERLINE IS TO CROSS OVER (BY TWO FEET OR MORE) EXISTING SEWER SHOWING NO EVIDENCE OF LEAKAGE. SHOULD EXCAVATION FOR THE WATERLINE PRODUCE EVIDENCE THAT THE SEWER IS LEAKING, THEN THE SEWER MUST BE REPAIRED OR REPLACED AS DESCRIBED IN SUBSECTIONS C OR D.

CAUTION
 CONTRACTOR TO VERIFY LOCATION
 AND SIZE OF ALL EXISTING UTILITIES
 PRIOR TO CONSTRUCTION

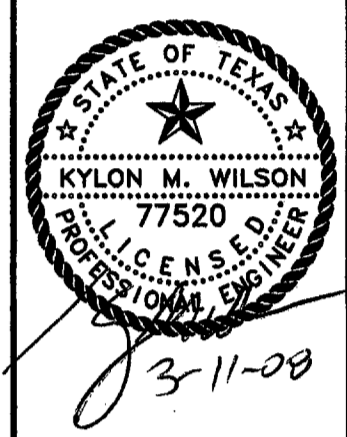
LEGEND

- | | |
|--------------------------|--|
| ——— 640 ——— | EXISTING 10' CONTOUR |
| ——— 641 ——— | EXISTING 1' CONTOUR |
| ——— EX 18" RCP ——— | EXISTING STORM LINE |
| ○ | EXISTING STORM MANHOLE |
| ——— EX. 8" SAN SEWER ——— | EXISTING SANITARY SEWER LINE |
| ○ CO | EXISTING SANITARY CLEANOUT |
| ——— EX. 8" WATER ——— | EXISTING WATER LINE |
| ⊗ WV | EXISTING WATER VALVE |
| ⊗ FH | EXISTING FIRE HYDRANT |
| ⊗ GM | EXISTING GAS METER |
| ● PP | EXISTING POWER POLE WITH OVERHEAD ELECTRIC |
| ——— | PROPOSED 6" CURB & GUTTER |
| ——— | PROPOSED SANITARY SEWER |

BENCHMARK LIST:

1. STD. SQUARE CUT IN THE MIDDLE OF A DOUBLE STORM INLET ON THE WEST SIDE OF OLD DOOLEY ROAD: APPROXIMATELY 100' NORTH OF THE POINT OF BEGINNING NORTH EAST PROPERTY CORNER
2. ALUMINUM DISK SET IN CONCRETE STAMPED "ARP 2 ADS" LOCATED ON THE ADDISON AIRPORT, APPROXIMATELY 400' EAST OF THE CONTROL TOWER. ELEV.=570.88

NO.	DATE	COMMENT



CTRC
 TRC ENGINEERS, INC.
 6115 Camp Bowie Blvd., Suite 200, Fort Worth, Texas 76116-5500
 PHONE (817) 335-5065 • FAX (817) 335-5067

UTILITY PLAN
 NJ MALIN ADDITION
 ADDISON, TEXAS

DATE: JANUARY 2008	SCALE: 1"=30'
DESIGN BY: MGF	DRAWN BY: MGF
SHEET NO. 6	TOTAL SHEETS 9
SHEET OF 6	JOB NUMBER: 152111
PROJECT: NJ MALIN UTILITY	