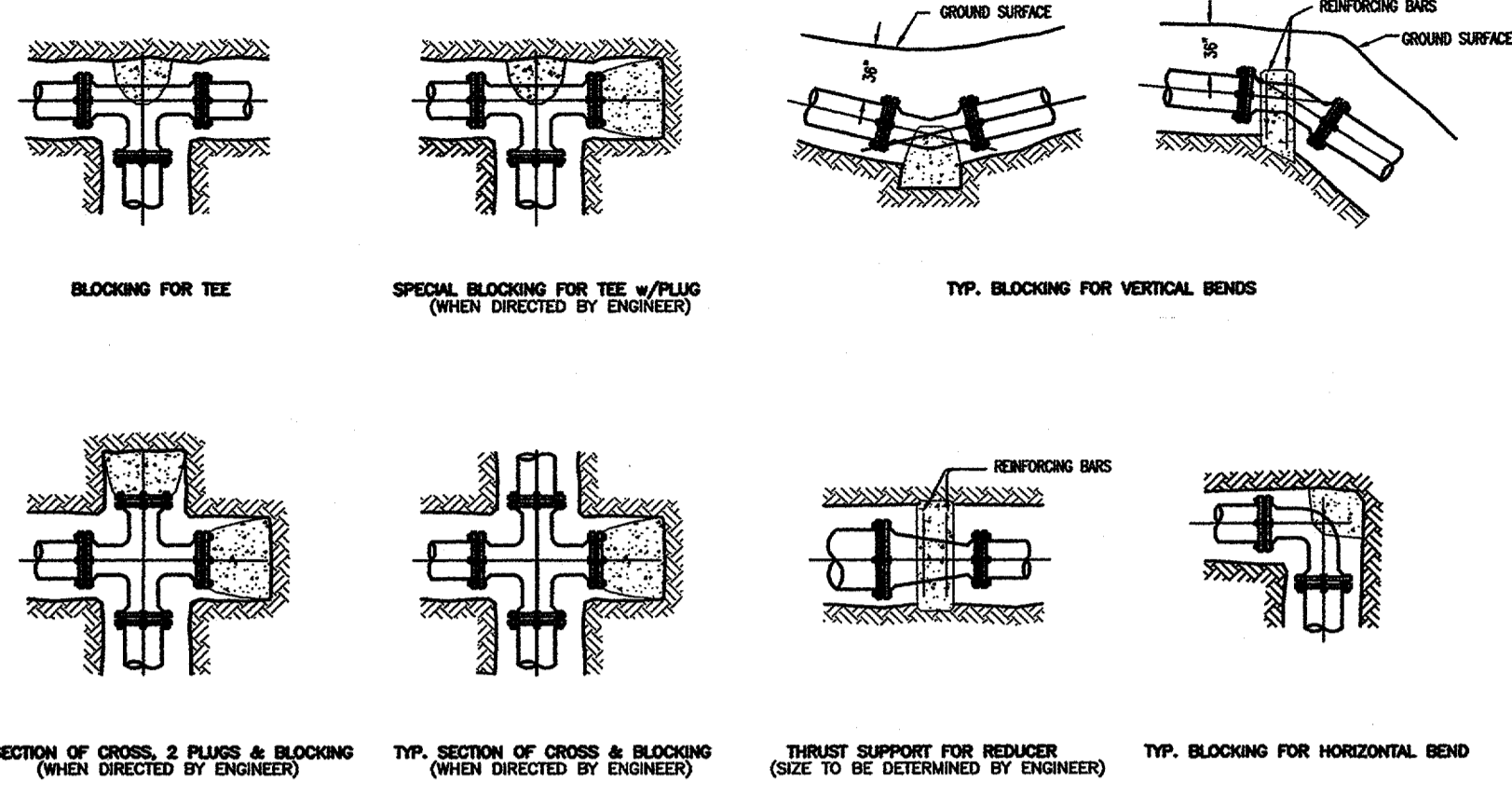


**THRUST BLOCKING DETAILS**

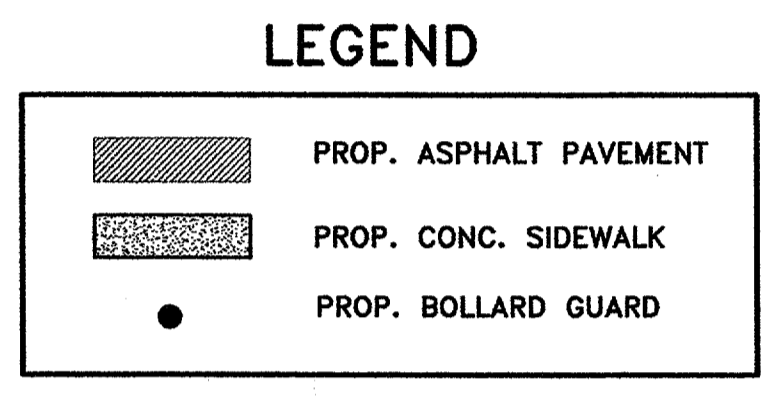
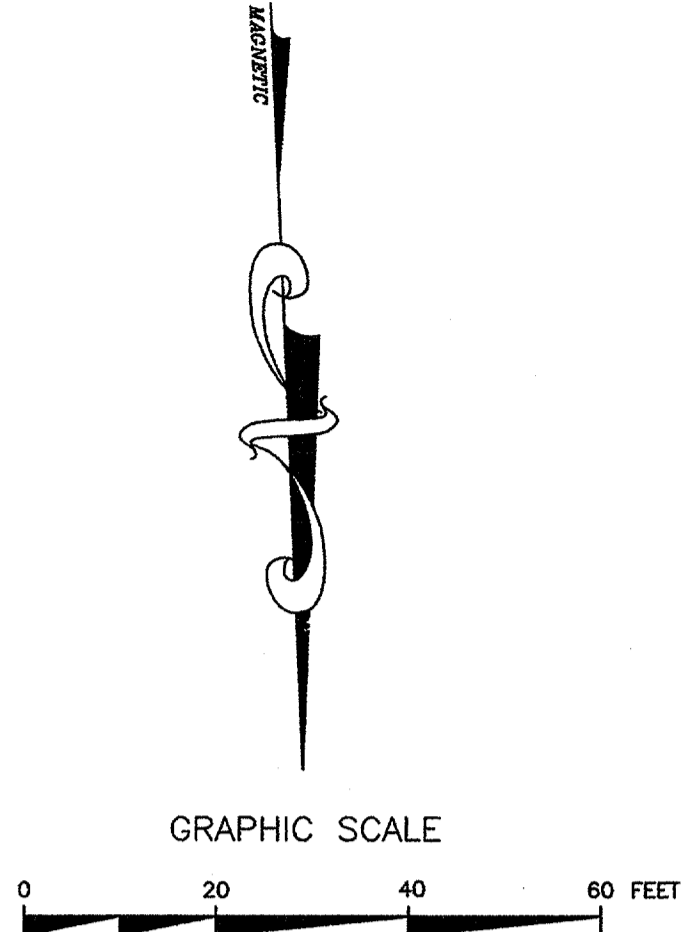


**GENERAL NOTES FOR THRUST BLOCKING:**

1. ALL BLOCKING SHALL BE AGAINST UNDISTURBED HAND DUG SOIL.
2. WHERE SOIL CONDITIONS MAKE IT NECESSARY TO POUR CONCRETE BLOCKING OVER JOINTS, THE ENDS OF THE ADJACENT PIPES MUST HAVE A KICKER BLOCK TO RESIST MOVEMENT OF THESE JOINTS.
3. WEIGHT CALCULATIONS TO BE BASED ON THRUST DUE TO STATIC PRESSURE  $+50\%$  THRUST =  $2 AP \sin 1/2 \theta$  WHERE  $A$ =AREA OF PIPE,  $P$ =WATER PRESSURE. 4. WHERE BLOCKING OVER PLUG, PLUG SHOULD BE COVERED WITH PAPER TO PREVENT BINDING OF CONCRETE.
5. WHERE SHEAR BECOMES A PROBLEM, PROPER REINFORCING MUST BE INSTALLED INTO THE BLOCKING.
6. CLEARANCE SHALL BE A MINIMUM OF 6" BETWEEN PIPE AND OBSTRUCTION.
7. CLEARANCE ON PIPES BELONGING TO OIL & GAS COMPANIES SHALL BE 18" UNLESS SPECIAL PERMISSION IS GIVEN BY THESE COMPANIES.
8. PROVIDE MINIMUM BEARING AREA IN S.E. AS FOLLOWS BASED ON 150 PSI TEST PRESSURE AND 2000 PSF 50:1 BEARING.

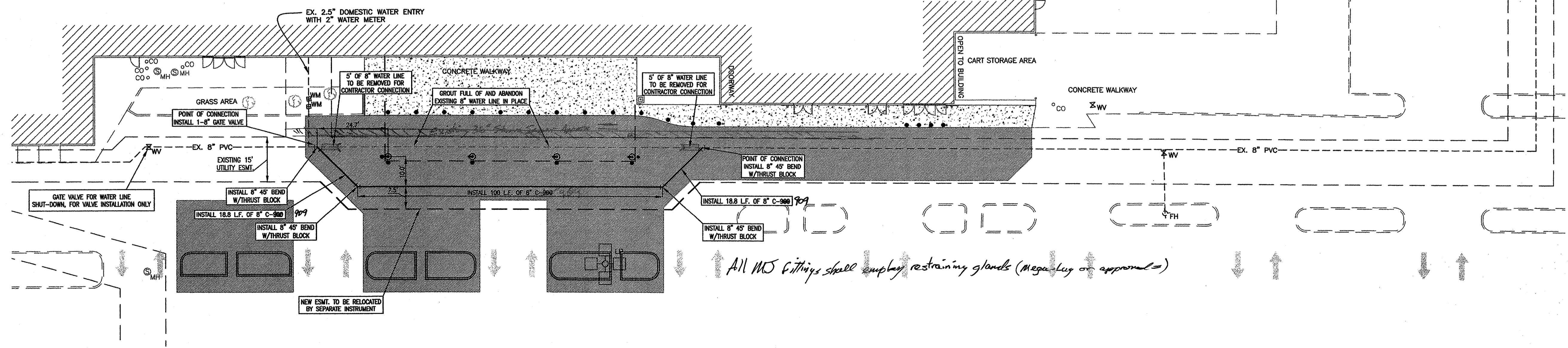


EXISTING SAM'S CLUB #6376  
F.F.E.=100.00



FUTURE EXPANSION  
28,000 S.F.

NOTE TO CONTRACTOR: VALVE FOR WATER LINE SHUT-DOWN IS APPROX. ± 15 FEET NORTH OF BACK OF CURB. OF BELWAY DRIVE AND LA GRANDE DRIVE INTERSECTION.



Nov. 09, 2004 - 3:45pm - USER: edharry; \\hds000\project\_data\PROJETS\2004\2004.207 Raymond Harris - WMSC Remodel - Addison\01 UTILITY PLAN.dwg

**ADAMS CONSULTING ENGINEERS, INC.**  
CIVIL & ENVIRONMENTAL ENGINEERS  
3508 W. BELWAY DRIVE, SUITE 200  
DALLAS, TEXAS 75235  
PHONE: 972.253.8800 • FAX: 972.253.7871

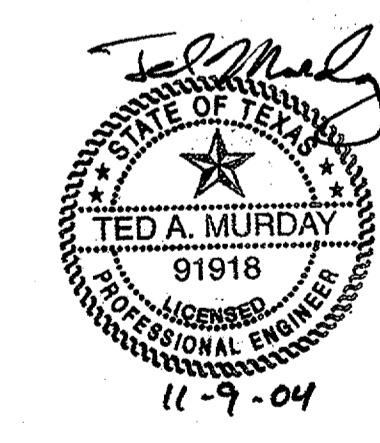
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REMODEL  
ADDISON, TEXAS  
CLUB #6376  
JOB NUMBER: 2004-207

ISSUE BLOCK

1	OTP	10/18/04
2	ADA	11/08/04

CHECKED BY: BS  
DRAWN BY: CAI  
DOCUMENT DATE: 10/18/04



UTILITY PLAN