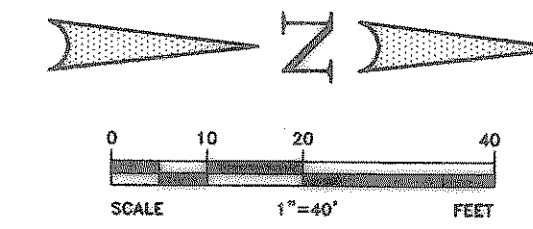
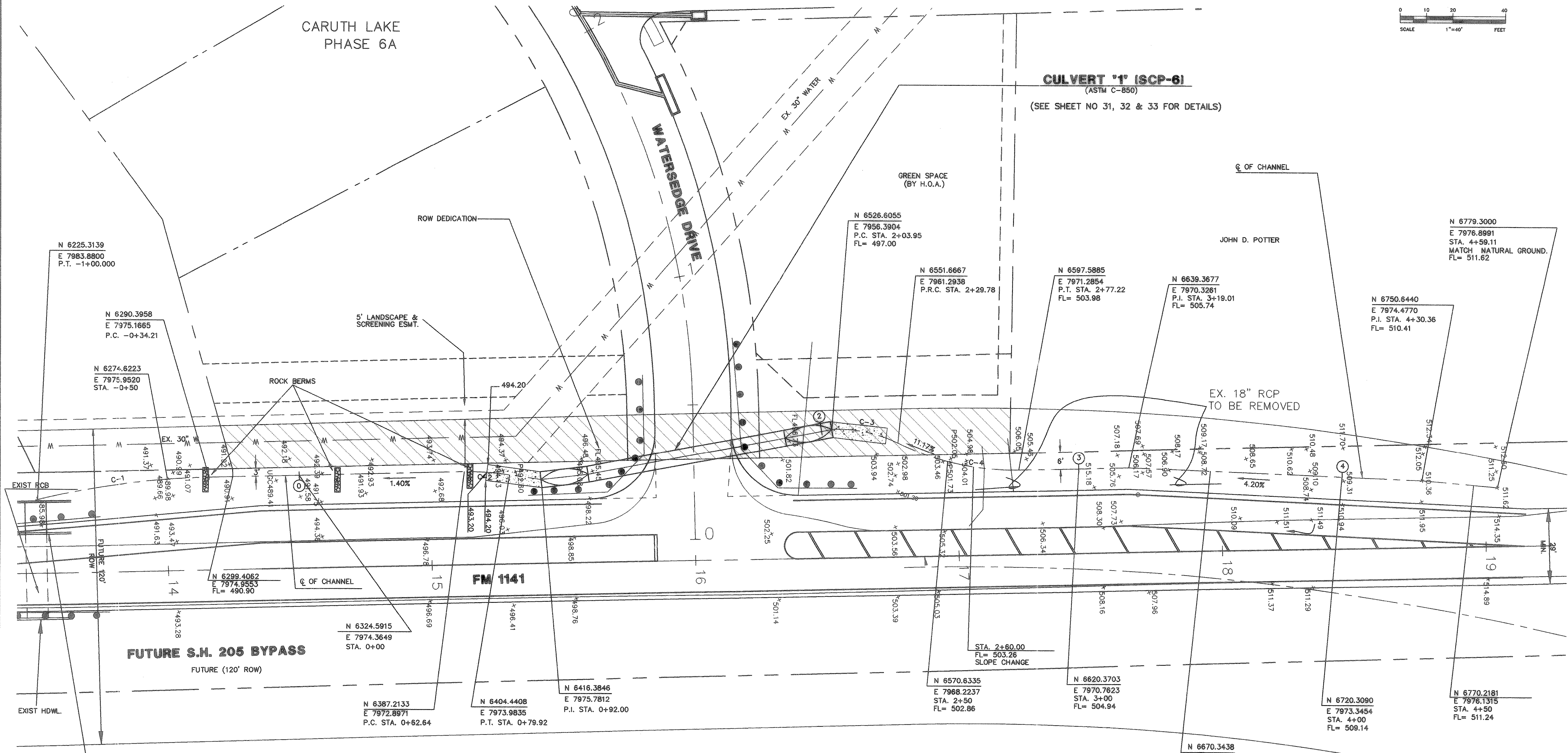


CARUTH LAKE  
PHASE 6A

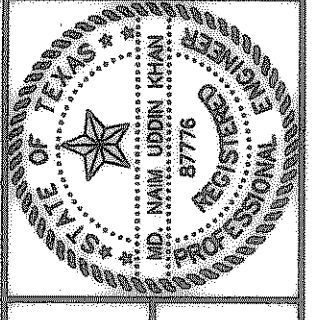


**CULVERT '1' (ISCP-6)**  
(ASTM C-850)  
(SEE SHEET NO 31, 32 & 33 FOR DETAILS)



THESE CONSTRUCTION PLANS WERE PREPARED UNDER THE RESPONSIBLE SUPERVISION OF  
MD. NAIM UDDIN KHAN, REGISTERED PROFESSIONAL ENGINEER NO. 87776

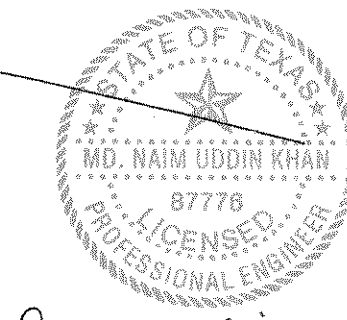
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY  
MD. NAIM UDDIN KHAN, # 87776



**Winkelmann & Associates, Inc.**  
CONSULTING CIVIL ENGINEERS & SURVEYORS  
6720 HILLCREST PLAZA, SUITE 100  
DALLAS, TEXAS 75248  
(972) 486-7999  
(972) 486-7999 FAX

M.B. JONES SURVEY, ABSTRACT NO. 122  
CITY OF ROCKWALL  
ROCKWALL COUNTY, TEXAS  
LUMBERMEN'S INVESTMENT CORPORATION  
5485 BELLEVUE ROAD #225  
DALLAS, TEXAS 75240

**STORM PLAN (PHASE 6A)**  
**CULVERT '1' (ISCP-6)**



*Naim Uddin Khan*  
1/16/20

RECORD DRAWING  
RECORD INFORMATION PROVIDED BY  
PRECISION MANAGEMENT, FORNEY, TEXAS &  
RODMAN COMPANIES, FRISCO, TEXAS

**PHASE 6A**  
Scale: H: 1"=20' Date: 4/12/04  
Designed By: MS  
Drawn By: MS  
Checked By: NK  
File: 146546.dwg  
Project No.: 14654.01

BENCHMARK:  
"X" CHISELED IN C OF ALLEY EAST OF MORNINGSTAR DRIVE WITHIN 3RD LOT NORTH OF MIDNIGHT PASS. ELEV. 513.26

BENCHMARK:  
PK NAIL IN C OF CARUTH LANE & ALLEY INTERSECTION 150'± EAST OF MORNINGSTAR DRIVE. ELEV. 491.68

NOTE:  
MINIMUM 3:1 SLOPE MUST BE MAINTAINED ON ALL CHANNEL WORKS UNLESS GUARD RAILS ARE INSTALLED

CURVE	RADIUS	DELTA	TANGENT	LENGTH	CHORD	BEARING
C-1	300.00'	12°42'48"	33.42'	66.56'	66.43'	S07°41'56"E
C-2	100.00'	09°54'09"	8.66'	17.28'	17.26'	S03°36'31"W
C-3	50.00'	29°33'28"	13.21'	26.82'	25.54'	N110°41'4"E
C-4	100.00'	27°10'52"	24.18'	47.44'	47.00'	N121°16'30"E

**SHEET**  
**16-A**  
**OF**  
**57**