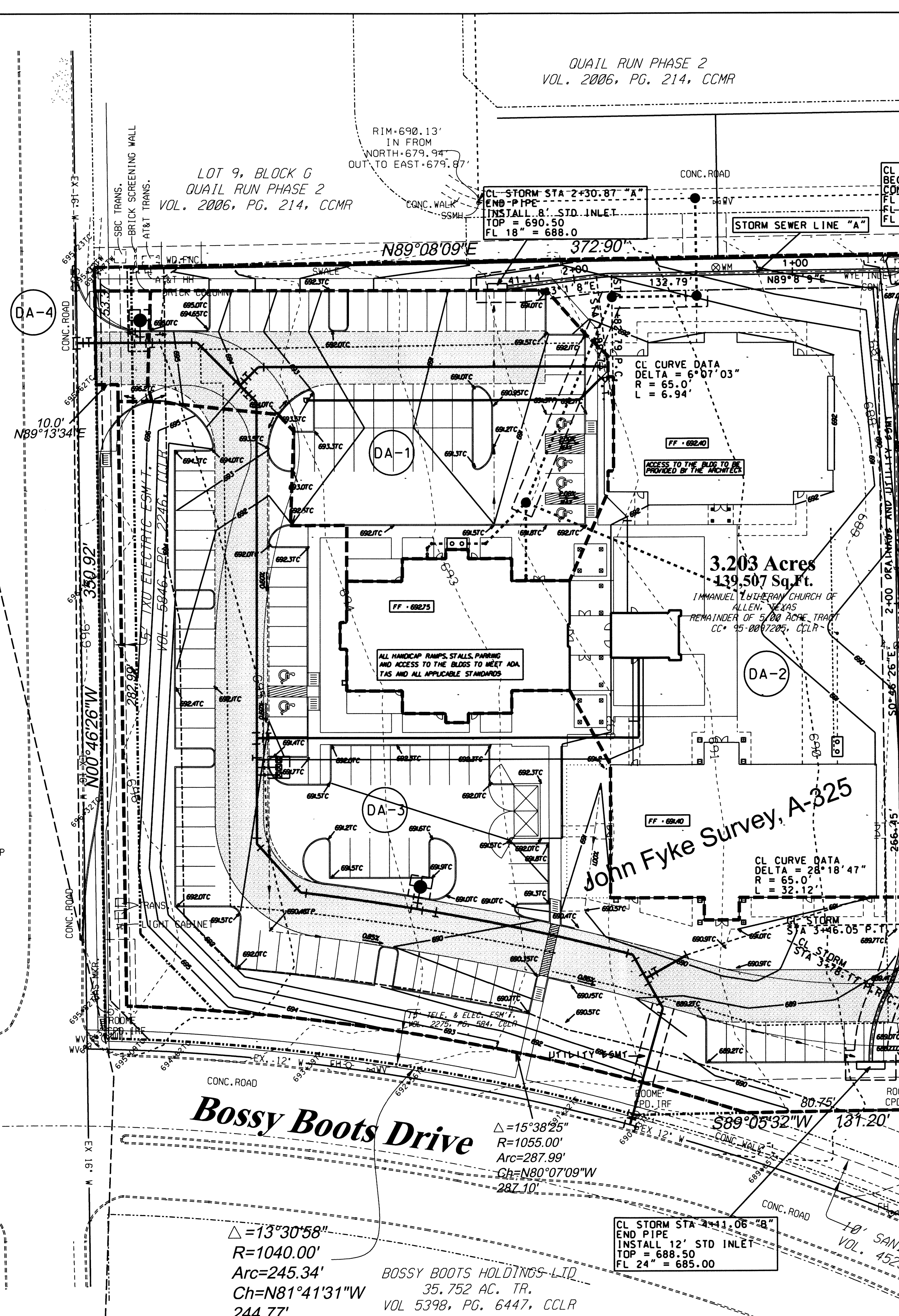


SCALE IN FEET  
SCALE: 1" = 30'

Watters Road



CL STORM STA 0+50 "A" AND "B"  
BEGIN PIPE  
CONNECT TO EXIST. INLET  
FL 18" IN EAST = 683.30  
FL 24" IN SOUTH = 682.80  
FL EXIST 30" = 682.30 +/-

CL CURVE DATA  
DELTA = 26°05'30"  
R = 65.0'  
L = 29.60'

Lot 1, Block A  
WATTERS MONTESSORI ACADEMY  
VOL. 2007, PG. 322, CCMR

3.203 Acres  
139,507 Sq. Ft.  
IMMANUEL LUTHERAN CHURCH OF ALLEN, TEXAS  
REMAINDER OF 5.00 ACRE TRACT  
CC# 95-00047205, CCLR

CL CURVE DATA  
DELTA = 28°18'47"  
R = 65.0'  
L = 32.12'

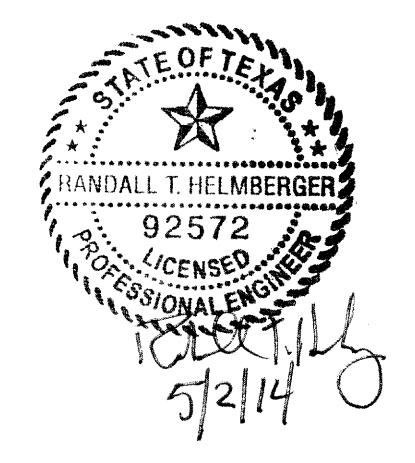
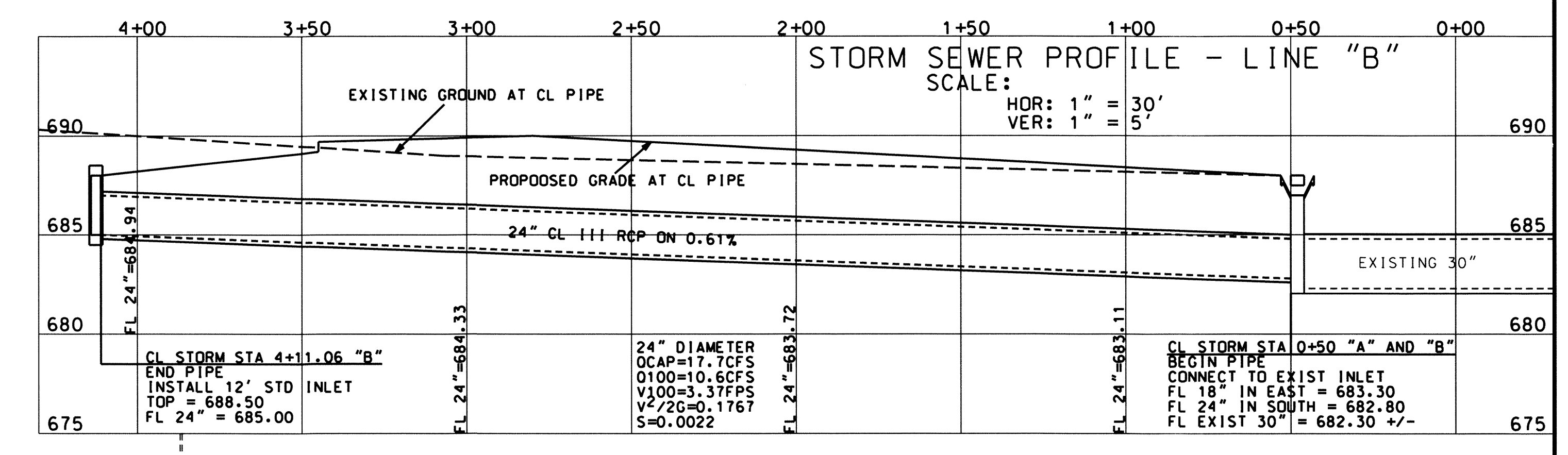
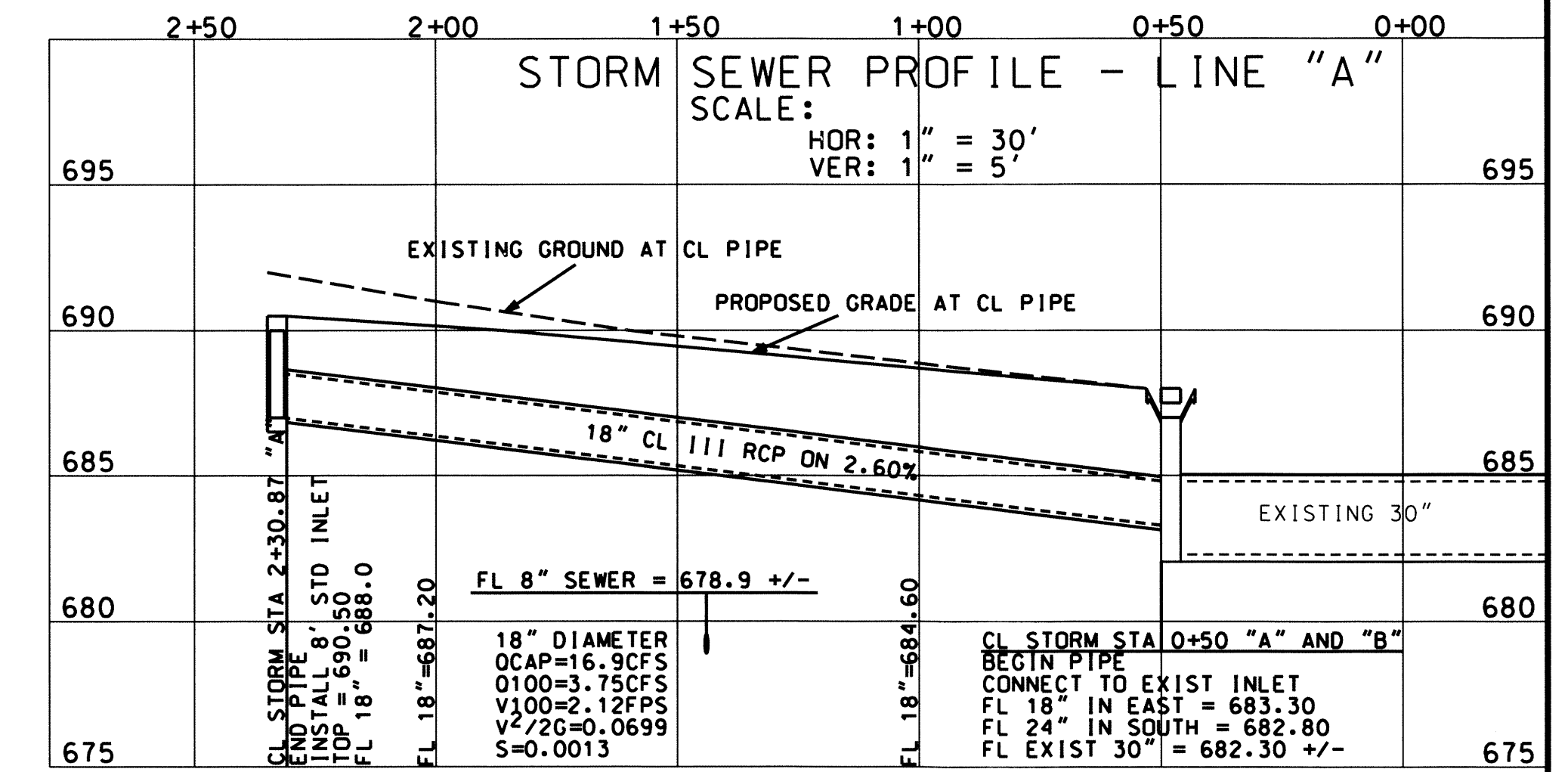
CL CURVE DATA  
DELTA = 28°59'30"  
R = 65.0'  
L = 32.89'

CL CURVE DATA  
DELTA = 15°38'25"  
R = 1055.00'  
Arc = 287.99'  
Ch = N80°07'09"W  
287.10'

CL CURVE DATA  
DELTA = 13°30'58"  
R = 1040.00'  
Arc = 245.34'  
Ch = N81°41'31"W  
244.77'

CL STORM STA 4+11.06 "B"  
END PIPE  
INSTALL 12" STD INLET  
TOP = 688.50  
FL 24" = 685.00

CL STORM STA 4+11.06 "B"  
END PIPE  
INSTALL 12" STD INLET  
TOP = 688.50  
FL 24" = 685.00



LINE LEGEND:

- PROPERTY LINE
- DRAINAGE FLOW
- PROPOSED WATER LINE
- PROPOSED CURB
- - - - - EXISTING CONTOUR LINE
- - - - - BUILDING SETBACK LINE
- - - - - UTILITY EASEMENT
- DRAINAGE DIVIDE LINE
- PROPOSED SANITARY SEWER W/ MANHOLE
- EXISTING SANITARY SEWER WITH MANHOLE
- EXISTING WATER LINE
- PROPOSED WATER LINE
- PROPOSED WATER METER
- PROPOSED FIRE HYDRANT
- PROPOSED GREASE TRAP

STORMWATER RUNOFF CALCULATIONS (100 YR STORM)

LOCATION	Tc (MINUTES)	I (100)	A (ACRES)	C	Q100	FLOWS TO
DA-1	10	8.74	0.48	0.90	3.75 CFS	PROPOSED 8" INLET
DA-2	10	8.74	1.20	0.90	9.4 CFS	EXISTING DROP INLET
DA-3	10	8.74	1.35	0.90	10.6 CFS	PROPOSED 12" INLET
DA-4	10	8.74	0.03	0.90	0.21 CFS	SHEET FLOW TO WATTERS

**GRADING AND DRAINAGE PLAN**  
RADHA KRISHNA TEMPLE  
NE CORNER WATTERS ROAD AND BOSSY BOOTS ROAD  
ALLEN, TEXAS

TYPE REGISTRATION NO. F-000756  
**HELMBERGER ASSOCIATES, INC.**  
CIVIL AND ENVIRONMENTAL ENGINEERS  
1325 BOZMAN ROAD, WYLLIE, TEXAS 75098 (972) 442-7458

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HELM.	CADD	NOVEMBER 2013	1"=30'	GBOARD	1337	C4