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ARCHITECTURE
ENGINEERING
STUDIES
PLANNING
INVESTIGATION
EXPERT WITNESS

NEW
CHURCH

TABERNACLE
BAPTIST CHURCH
2445 FOURTH ST.
SUDELL, LA

GRADING
PLAN
REQUIREMENTS

REV:

SCALE: AS NOTED

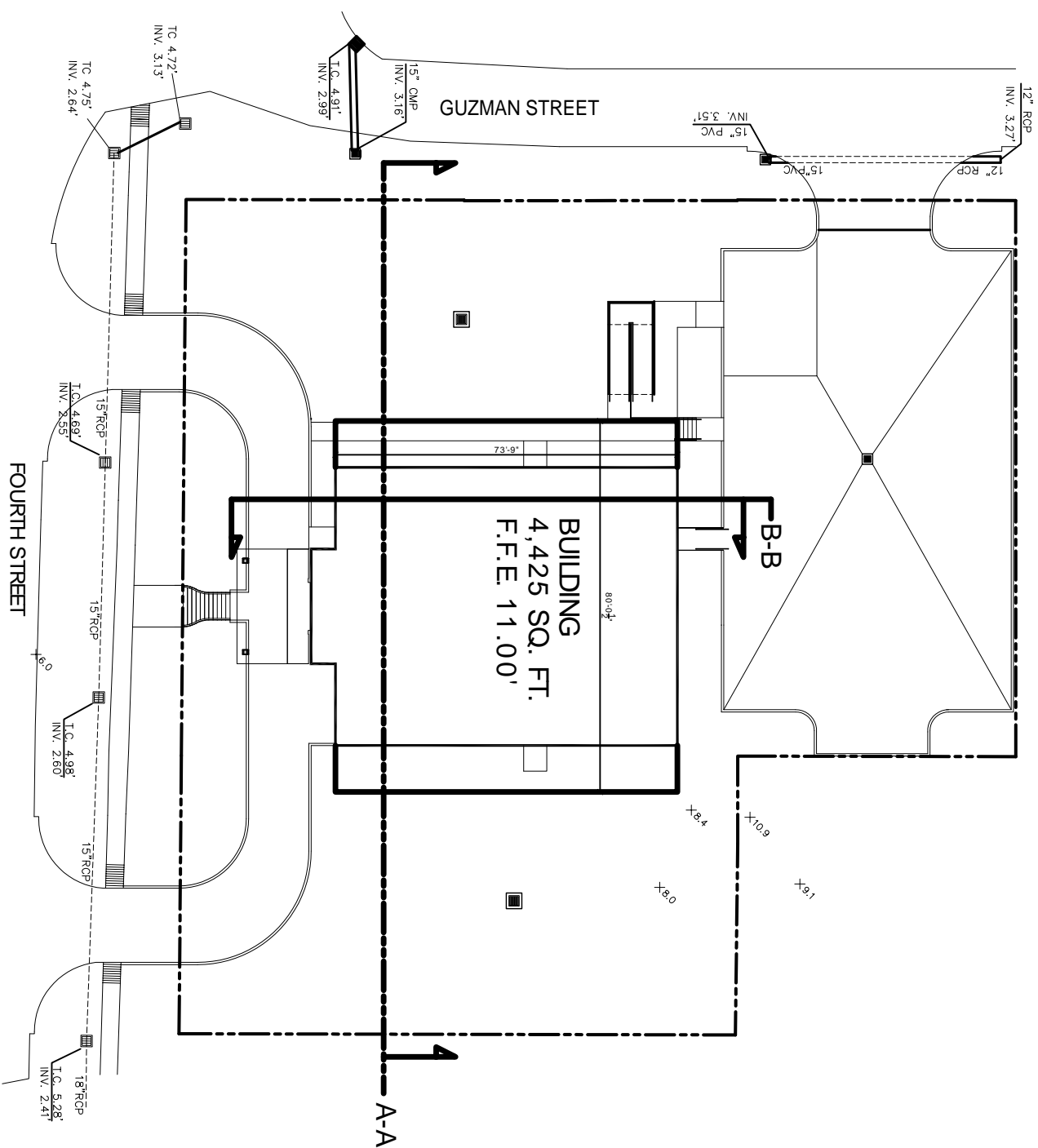
JOB#: 2050

DATE 3-17-10

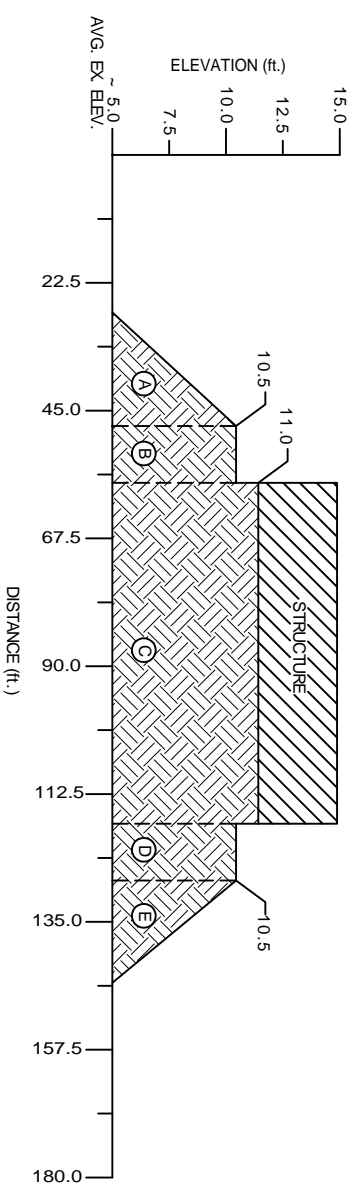
SHEET 1

GPR

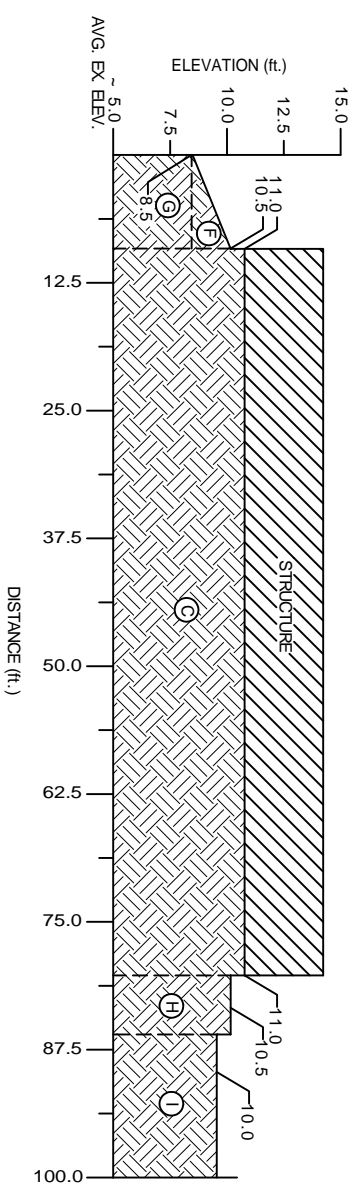
OF 1



GRADING PLAN
SCALE 1/16" = 1'



SECTION A-A
SCALE N.T.S.



SECTION B-B
SCALE N.T.S.

ALLOWABLE FILL PER CITY OF SUDELL FILL ORDINANCE

$$V = [(EX \text{ GRADE TO EX CURB ELEV.}) / (\text{PROPERTY SQ. FT.})] + [(EX \text{ CURB PLUS ONE FOOT}) / (\text{PROPERTY SQ. FT.}) / 2 \%$$

$$V = [(1)(28787 \text{ sq. ft.})] + [(1)(28787 \text{ sq. ft.}) / (0.02)] = 55,150.7 \text{ cu.ft.} = 2,153.7 \text{ cu.yd.}$$

REQUIRED FILL:

- A: $A = 1/2bh = 1/2(20)(5.5) = 55 \text{ sq. ft.}$
- B: $V = 55 \text{ sq. ft.} (7.4) = 4,070 \text{ cu. ft.}$
- C: $V = 10(5.5)(7.4) = 4,070 \text{ cu. ft.}$
- D: $V = 4425 \text{ sq. ft.} (6) = 26,550 \text{ cu. ft.}$
- E: $V = V(B) = 4,070 \text{ cu. ft.}$
- F: $A = 1/2bh = 1/2(18)(5) = 45 \text{ sq. ft.}$
- G: $V = 45 \text{ sq. ft.} (7.4) = 3,330 \text{ cu. ft.}$
- H: $V = 10 \text{ sq. ft.} (80) = 800 \text{ cu. ft.}$
- I: $V = 10(3.5)(80) = 2,800 \text{ cu. ft.}$
- J: $V = 5(5.5)(80) = 2,200 \text{ cu. ft.}$
- K: $V = 14(5)(80) = 5,600 \text{ cu. ft.}$

$$\text{TOTAL FILL REQUIRED} = 53,490 \text{ cu. ft.} = 1,981.1 \text{ cu. yd.}$$

TOTAL FILL REQD < FILL ALLOWED