FIRST UNITED METHODIST CHURCH

333 10th AVENUE W.- PALMETTO - MANATEE COUNTY- FLORIDA
SECTION: 23 TOWNSHIP: 34S RANGE: 17E

SCOPE OF WORK:

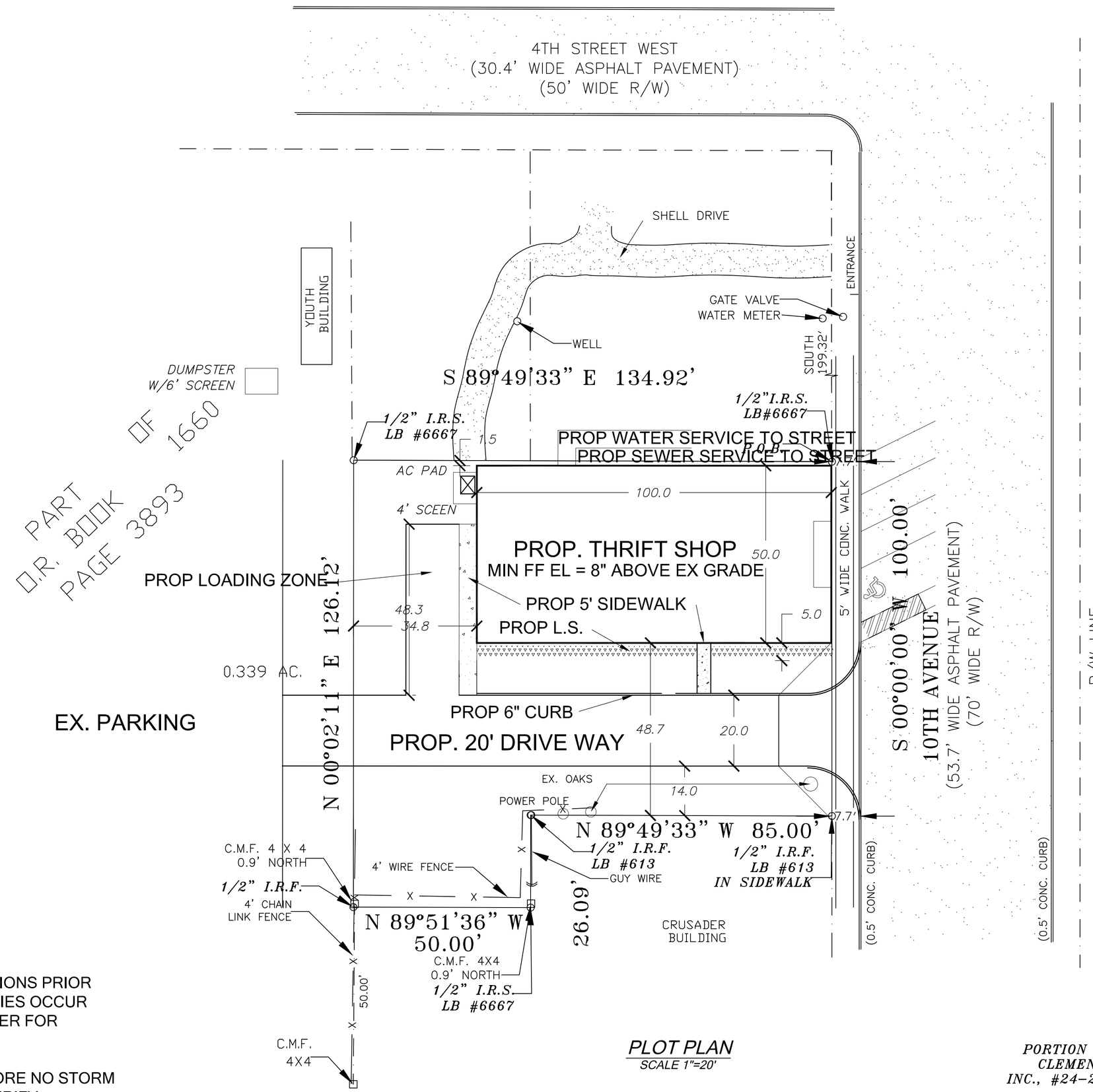
PROPOSED 5000 SF PRE-ENGINEERED RIGID FRAME METAL BUILDING WITH CONCRETE FOUNDATION TO BE USED AS THRIFT STORE (MERCANTILE)

DESIGN CRITERIA

IN COMPLIANCE WITH FBC 2010 (CHAPTER 16)	
WIND SPEED: ULTIMATE	150 MPH, 3 SEC. GUST
NOMIMAL	116MPH
RISK CATEGORY:	II
IMPORTANCE FACTOR:	1.0
EXPOSURE CATEGORY:	C
ENCLOSURE CLASSIFICATION:	ENCLOSED
INTERNAL PRESSURE COEFFICIENT:	TABLE 1609.6.2
FLOOD ZONE:	B
BASE FLOOD ZONE ELEVATION:	N/A
FLOOD PROTECTION ELEVATION:	N/A
OPENING PROTECTION (SHUTTERS OR IMPACT):	NOT REQUIRED
EXPOSURE ADJUSTMENT COEFICIENT:	1.0
CONSTRUCTION TYPE:	II-B
OCCUPANCY:	B (BUSINESS)
AREA TOTAL	5000 sf
OCCUPANT LOAD:	50
MAX. TRAVEL DISTANCE TO EXIT:	75'
MIN. CORRIDOR/AISLE WIDTH:	44 in
MIN. CLEAR OPENING OF EXIST DOORS:	32 in.

	ALLOWABLE	ACTUAL
OCCUPANT LOAD:	50	50
MAX. TRAVEL DISTANCE TO EXIT:	200'	104'
MIN. CORRIDOR/AISLE WIDTH:	44 in	44 in
MIN. CLEAR OPENING OF EXIST DOORS:	32 in.	36 in

DESIGN WIND PRESSURE
ROOF: 33 psf
WALLS: 29 psf
WINDOWS: ZONE 4= +27/-30 psf
ZONE 5= +27/-34 psf



PLOT PLAN
SCALE 1"=20'

PORTION OF SURVEY BY CLEMENTS SURVEYING, INC., #24-269, 07-10--12

OCCUPANCY CALCULATION

1) 2010 FBC , Section 304.1: Occupancy Classification: Business and Table 1004.1.2:
GFA =5000 sf
Allowable occupancy = 1 person / 100 sf
Allowable occupancy = 5000 sf * 1 people / 100 sf
Allowable occupancy = 50 people

Number of exit door = 2 exits of 36" width
Inches per occupant at egress door = 0.2 inch/occupant

Worst case scenario: Only 1 exit door working at time and each egress door takes 100% of the allowable capacity:

Allowable occupancy per egress door =
36 inch/(0.2 inc/occupant)x1.0=180 occupants
but the maximum capacity per only one door shall be 49 occupants (worst case scenario); therefore, The building requires 2 exit door.
(Table 1015.1)

Total Allowable capacity = 50 people.

Proposed ocuppancy = 50 people

F.B.C. TABLE 601 FIRE RESISTANCE RATINGS

BASED ON F.B.C. OCCUPANCY: B TYPE II-B PROTECTED	FIRE RESISTANCE (HR) Required	FIRE RESISTENCE (HR) Provided
STRUCTURAL FRAME		
Including columns, girders, trusses	0	0 (metal)
BEARING WALLS		
Exterior	0	0 (metal)
Interior	0	N/A
NONBEARING WALLS & PARTITIONS		
Interior	0	0
FLOOR CONSTRUCTION		
Including supporting beams and joists	0	2 (concrete)
ROOF CONSTRUCTION		
Including supporting beams and joists	0	0 (metal)

F.B.C. TABLE 503 ALLOWABLE HEIGHTS AND BUILDING AREA

OCCUPANCY B	ALLOWABLE	ACTUAL
MAX. NUMBER OF STORIES	3	1
MAX. HEIGHT IN FEET	55	23
TOTAL UNIT AREA ON SF	23000	5000

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3	FLOOR PLAN & FRAMING PLAN AT RESTROOM
4	ELEVATIONS
5	EGRESS PLAN, REFLECTING CEILING PLAN & DETAILS
6	WALL SECTIONS & DETAILS
7	PLUMBING PLAN & DETAILS
8	ELECTRICAL PLAN & DETAILS
9	HVAC PLAN & DETAILS (HVAC 1 OF 1)

NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS PRIOR TO STARTING ANY CONSTRUCTION. IN THE EVENT ANY DISCREPANCIES OCCUR THAT AFFECTS CONSTRUCTION, NOTIFY THE ARCHITECT OR ENGINEER FOR CLARIFICATION.
2. THESE PLANS ARE IN COMPLIANCE PER FBC 2010 & NEC 2008.
3. PROPOSED WINDOWS & DOORS ARE IMPACT RATED GLASS, THEREFORE NO STORM SHUTTERS ARE REQUIRED. SEE WINDOWS AND DOORS N.O.A's TO VERIFY.
4. PROPERTY LIES IN FLOODZONE B, FIRM PANEL #120159 0003 C, 11-16-83 (NO BFE SPECIFIED)

REVISION	DESCRIPTION:	BY:	REV. DATE:

CONTRACTOR
DELESLINE CONSTRUCTION
CGC 056682

BENSON ENGINEERING, INC.
ENGINEERS PLANNERS SURVEYORS
4531 51st STREET EAST BRADENTON, FL 34203
Phone: (941) 792-6161 Fax: (941) 746-5335

TITLE: COVER SHEET

PROJECT: FIRST UNITED METHODIST CHURCH
333 10th AVENUE W.- PALMETTO, FL.

PROJ. NO: 212035

DRW. DATE:	SECTION:
12/18/12	23
DRW. BY:	TOWNSHIP:
JBB	34S
APPR. BY:	RANGE:
JBB	17E

SHEET CS
1 OF 9 SHEETS