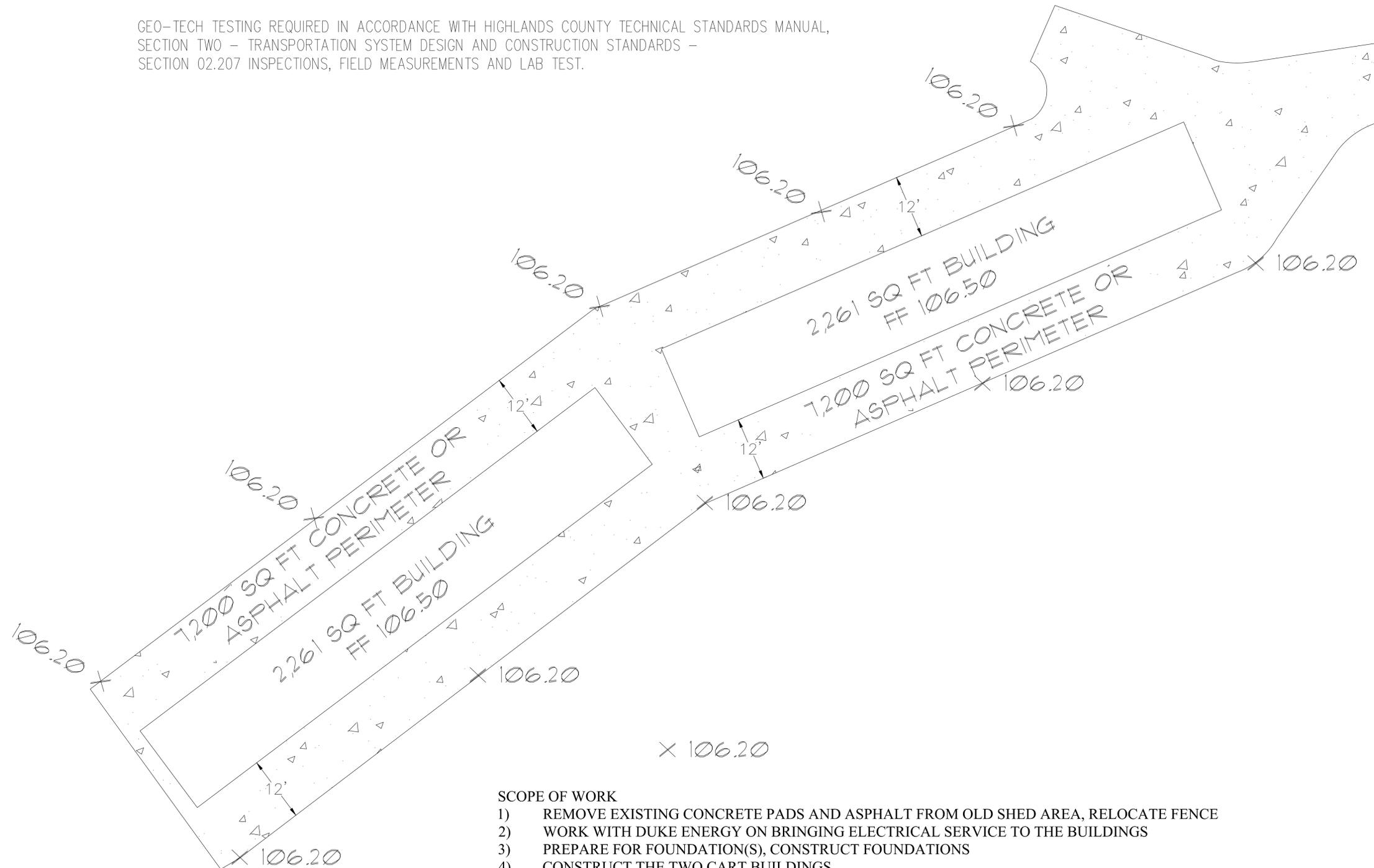


CONCRETE GOLF CART PERIMETER ACCESS:

- 6" STABILIZED SUB-BASE TO 95% DENSITY PER AASHTO T-180, 60 PSI MIN FBV
- 6" LIMEROCK OR SHELLROCK BASE COMPACTED TO 95% DENSITY AS PER AASHTO T-180
- 6" CONCRETE, 3000 PSI W/ 6x6 W1.4xW1.4 W.W.M.
- 1/8" WIDE x 1" DEEP EXPANSION JOINT, CUT 12' O.C.

GEO-TECH TESTING REQUIRED IN ACCORDANCE WITH HIGHLANDS COUNTY TECHNICAL STANDARDS MANUAL, SECTION TWO - TRANSPORTATION SYSTEM DESIGN AND CONSTRUCTION STANDARDS - SECTION 02.207 INSPECTIONS, FIELD MEASUREMENTS AND LAB TEST.



SCOPE OF WORK

- 1) REMOVE EXISTING CONCRETE PADS AND ASPHALT FROM OLD SHED AREA, RELOCATE FENCE
- 2) WORK WITH DUKE ENERGY ON BRINGING ELECTRICAL SERVICE TO THE BUILDINGS
- 3) PREPARE FOR FOUNDATION(S), CONSTRUCT FOUNDATIONS
- 4) CONSTRUCT THE TWO CART BUILDINGS.
- 5) CONSTRUCT THE CONCRETE PERIMETER CART ACCESS AROUND THE TWO NEW BUILDINGS AS SHOWN ON THE PLANS.
- 6) REPAIR ANY DAMAGE, SOD ANY DISTURBED AREAS WITH LIKE SOD.

DATE	REMARK	SCOPE OF WORK PAGE	DR	CH
9/6/2018			RDP	

CERTIFICATE OF AUTHORIZATION # 5684
 ROGER DALE POLSTON P.E. # 33222
 MARVIN LUTHER WOLFE P.E. # 48030

GRATED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



CITY OF SEBRING GOLF CART BUILDINGS
CITY OF SEBRING
SITE DEVELOPMENT PLANS
SCOPE OF WORK HIGHLIGHTED AREAS

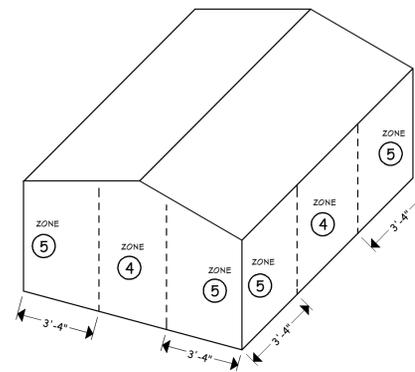
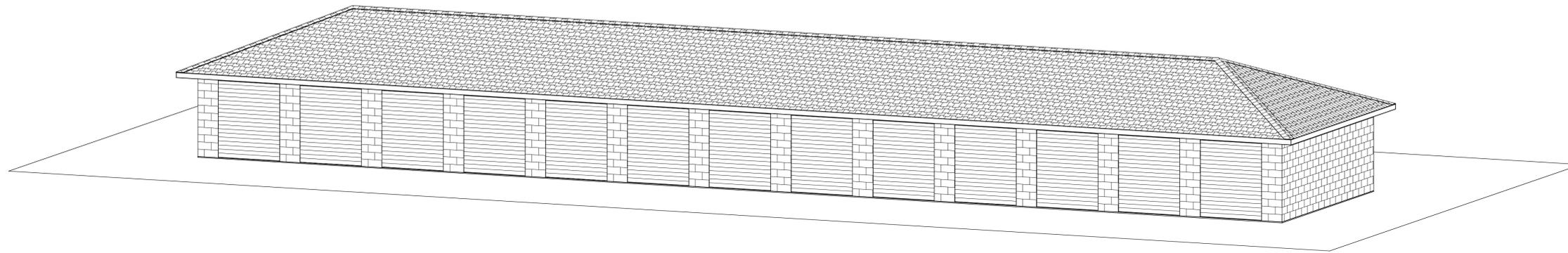
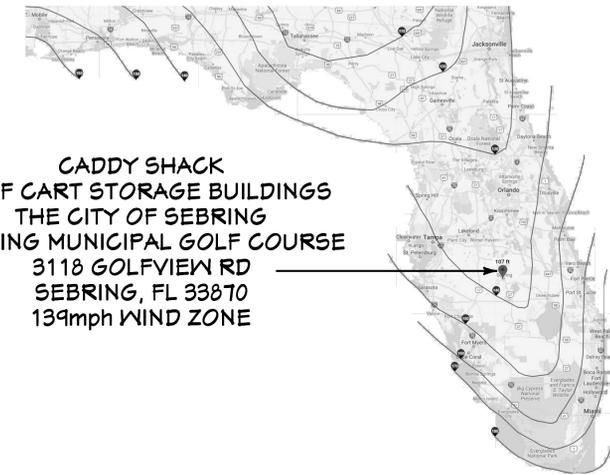
ENGINEER JOB # **18022**

DRAWING SCALE
1" = 10'
 SHEET
 1 OF 1



**368 S Commerce Avenue
Sebring, FL 33870**

**CADDY SHACK
GOLF CART STORAGE BUILDINGS
THE CITY OF SEBRING
SEBRING MUNICIPAL GOLF COURSE
3118 GOLFVIEW RD
SEBRING, FL 33870
139mph WIND ZONE**



NOTE:
DOORS MUST MEET ALL REQUIRED PRESSURES COMBINED
(NEGATIVE & POSITIVE)

MEAN ROOF HEIGHT: 10'-2"
TOTAL S.F. EACH BLDG = 2261

CODE RELATED CRITERIA
6th EDITION 2011 FLORIDA BUILDING CODE
LATEST EDITION OF FLORIDA FIRE PREVENTION CODE

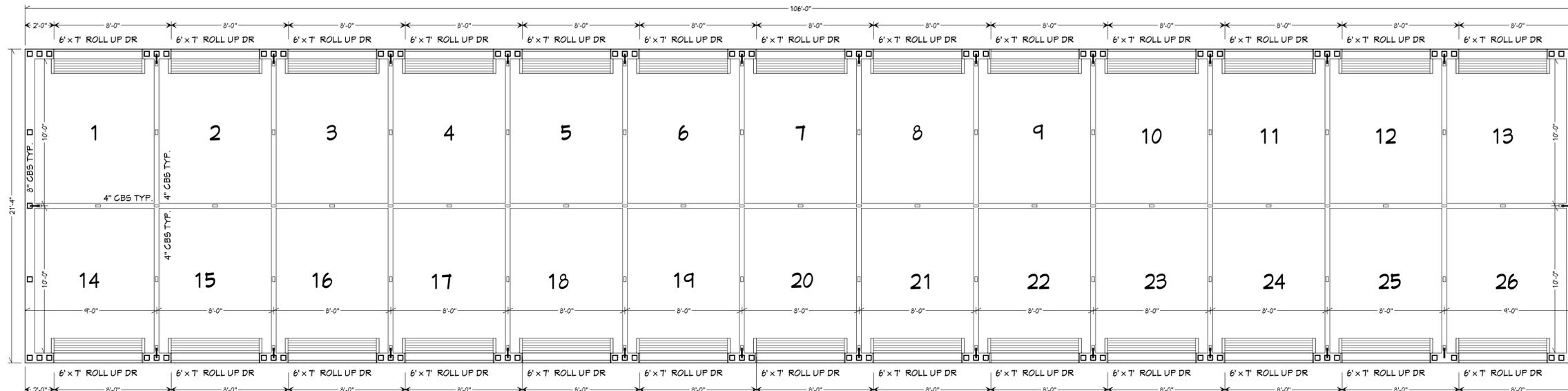
ALL ELECTRICAL WORK AND DESIGN SHALL BE IN ACCORDANCE WITH THE
NATIONAL ELECTRICAL CODE 2011 AND COMPLY WITH LOCAL CODES

OCCUPANT LOAD: 200 PERSONS

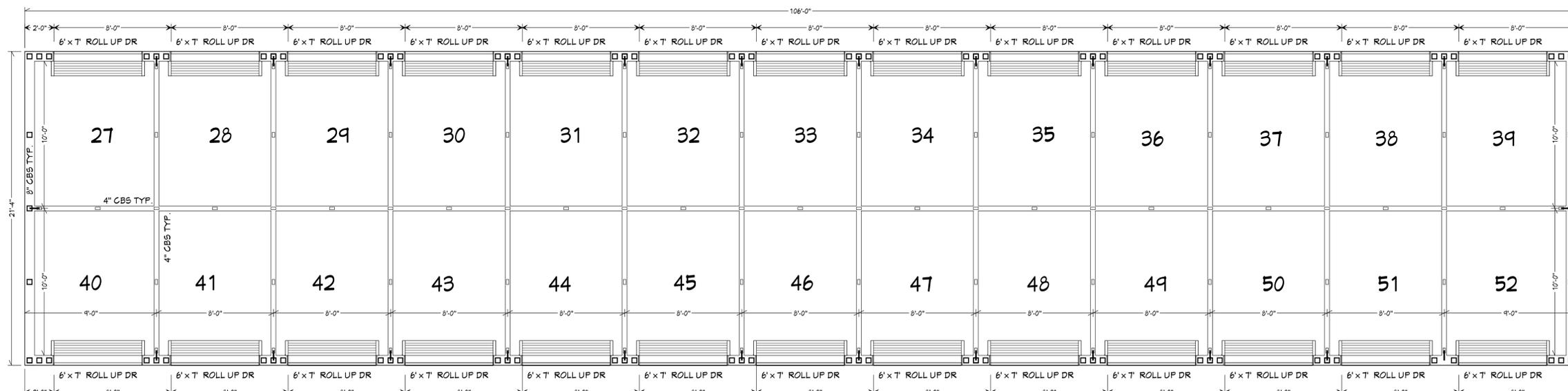
DESIGN PARAMETERS:		
DESIGN WIND SPEED:	FIRE PROTECTION	EXPOSURE CATEGORY:
<input type="checkbox"/> 153 MPH	<input type="checkbox"/> SPRINKLED	<input type="checkbox"/> B
<input type="checkbox"/> 140 MPH	<input checked="" type="checkbox"/> NON-SPRINKLED	<input checked="" type="checkbox"/> C
<input checked="" type="checkbox"/> 139MPH		<input type="checkbox"/> D
RISK CATEGORY		WINDBORNE DEBRIS REGION:
<input type="checkbox"/> CATEGORY I	<input type="checkbox"/> CATEGORY III	<input checked="" type="checkbox"/> NO
<input checked="" type="checkbox"/> CATEGORY II	<input type="checkbox"/> CATEGORY IV	<input type="checkbox"/> YES
BUILDING OCCUPANCY CLASSIFICATION:		<input checked="" type="checkbox"/> YES, NOT REQUIRED (EXEMPT)
<input type="checkbox"/> GROUP A - ASSEMBLY	<input type="checkbox"/> GROUP M - HAZARDOUS	<input type="checkbox"/> IMPACT RESISTANT GLAZING
<input type="checkbox"/> GROUP B - BUSINESS	<input type="checkbox"/> GROUP I - INSTITUTIONAL	<input type="checkbox"/> IMPACT RESISTANT COVERING
<input type="checkbox"/> GROUP D - DAY CARE	<input type="checkbox"/> GROUP M - MERCANTILE	<input type="checkbox"/> COMBINATION OF IMPACT RESISTANT GLAZING & COVERING
<input type="checkbox"/> GROUP E - EDUCATIONAL	<input type="checkbox"/> GROUP R - RESIDENTIAL	
<input type="checkbox"/> GROUP F - FACTORY INDUSTRIAL	<input checked="" type="checkbox"/> GROUP S - STORAGE	INTERNAL PRESSURE COEFFICIENTS:
BUILDING CONSTRUCTION TYPE:		<input type="checkbox"/> 0.00 (OPEN)
<input type="checkbox"/> TYPE I	<input type="checkbox"/> TYPE IV	<input checked="" type="checkbox"/> +0.10, -0.10 (ENCLOSED)
<input type="checkbox"/> TYPE II	<input checked="" type="checkbox"/> TYPE V	
<input type="checkbox"/> TYPE III		

Sheet	Description
CS	Cover Sheet
A-1	Floor Plan
A-2	Elevations
A-3	Details/Wall Sect.
S-1	Foundation
S-2	Truss Layout
E-1	Electrical

APPROVED BY: DATE: _____	DR	CH
	DEP	DEP
REMARK	INITIAL SUBMITTAL	
	REVISED BACK-BACK	
	RFI ELECTRICAL	
	REDLINE ELECTRICAL	
	BID SET	
JOB #	18022	
	SCALE	1/4" = 1'-0"
3025 KENIL WORTH BLVD., SEBRING, FLORIDA 33870 863-385-5564 PHONE 863-385-2462 FAX CERTIFIED PROFESSIONAL ENGINEER # 6586 POLSTON ENGINEERING, P.C. # 33220 MARVIN LUTHER WOLFE P.E. # 46030		
CADDY SHACK GOLF CART STORAGE BUILDINGS THE CITY OF SEBRING SEBRING MUNICIPAL GOLF COURSE 3118 GOLFVIEW RD SEBRING, FL 33870		



FLOOR PLAN: 1/4" = 1'-0"
 BLDG #1 UNITS 1 - 26
 2261 TOTAL S.F.



FLOOR PLAN: 1/4" = 1'-0"
 BLDG #2 UNITS 27 - 52
 2261 TOTAL S.F.

DEMO NOTE: CONTRACTOR IS RESPONSIBLE TO REMOVE EXISTING CONCRETE, FOOTERS AND DEBRIS TO ACCOMMODATE CONSTRUCTION OF BOTH NEW BUILDINGS AS DRAWN.

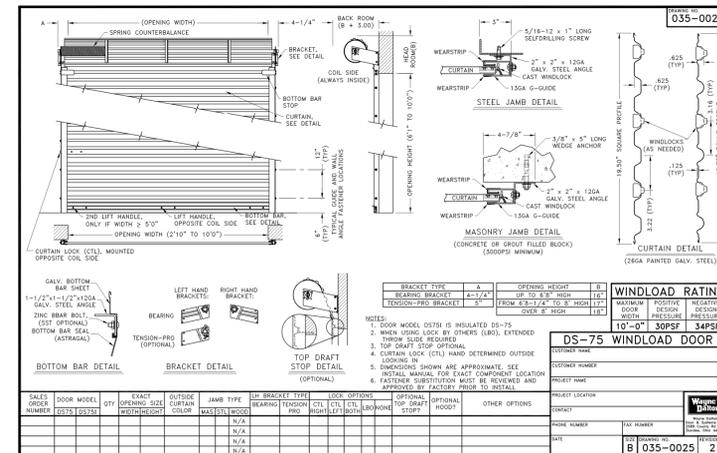
DOORS REQUIRED DESIGN PRESSURE				
DOOR FOR UNIT NO.	ZONE	DESCRIPTION	ZONE 4	ZONE 5
1,14,19,26,27,40,39,52	5	6' x 7' ROLL-DOOR WAYNE DALTON DS-75		26.4 -33.3
2 THRU 12, 15 THRU 25, 28 THRU 38, 41 THRU 51	4	6' x 7' ROLL-DOOR WAYNE DALTON DS-76	26.4	-28.9

NOTE TO MASON CONTRACTOR
 THE MASON CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL MASONRY OPENINGS WITH PROPER MANUFACTURERS SPECIFICATIONS PRIOR TO CONSTRUCTION.

ALTERNATIVE PARTITION WALLS SHALL BE INCLUDED WITH SUBMITTED BID

WAYNE DALTON MOD-U-WALL - Corrugated 26-gauge panel divider partition dividers partitions interlock with angle and channel (Galvanized). [or EQUIVALENT] (PROVIDED MANUFACTURE AND MODELS FOR ANY EQUIVALENTS)

WITH THE ABOVE SYSTEM THE FOLLOWING WOULD BE DELETED FROM PLAN. ALL 8"x8" INTERIOR FOOTERS, ALL 4" CBS INTERIOR WALLS AND COMPONENTS.



WAYNE DALTON DS-75 SHALL ONLY BE SUBSTITUTED WITH WRITTEN APPROVAL

DR	CH
DEP	DEP

REMARK	DATE
INITIAL SUBMITTAL	02/23/18
REVISED BACK-BACK	02/26/18
RFI ELECTRICAL	04/28/18
REDLINE ELECTRICAL	07/25/18
ELECTRICAL	09/11/18
BID SET	09/12/18

JOB # 18022

SCALE 1/4" = 1'-0"

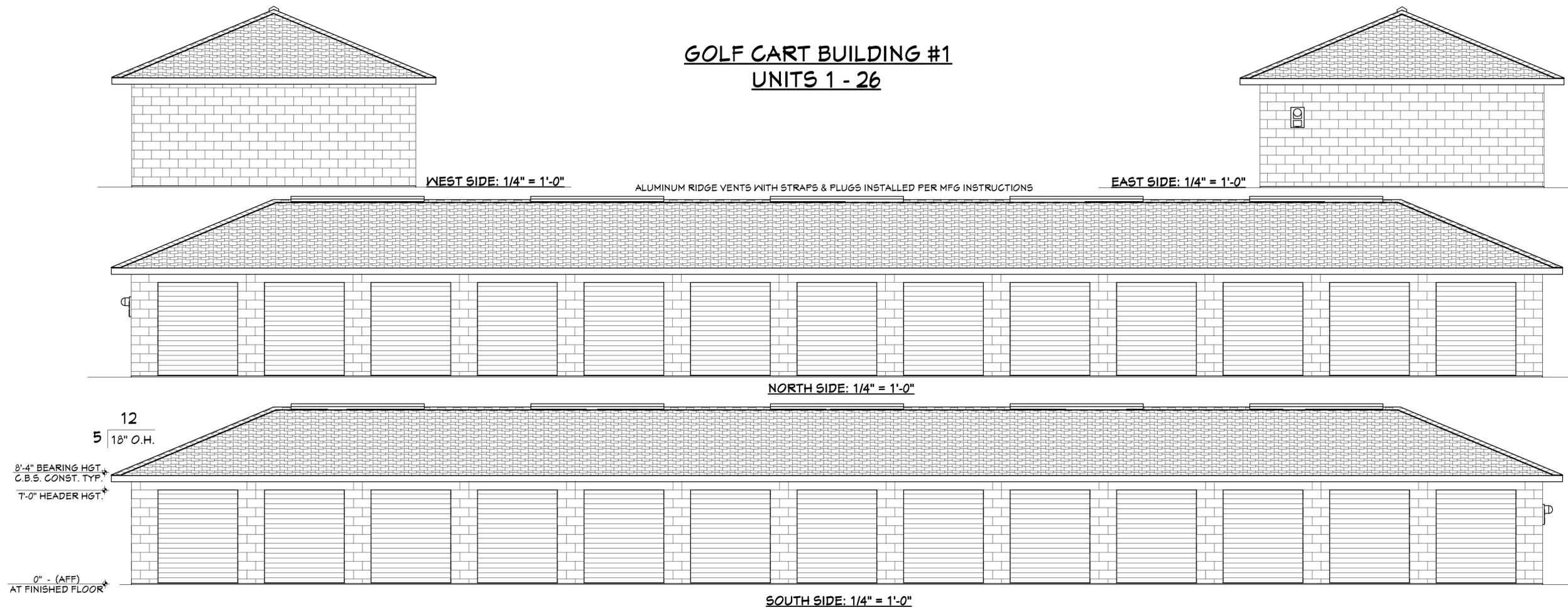
3025 KENILWORTH BLVD., SEBRING, FLORIDA 33870
 888-386-5564 PHONE
 888-386-2462 FAX

Polston Engineering

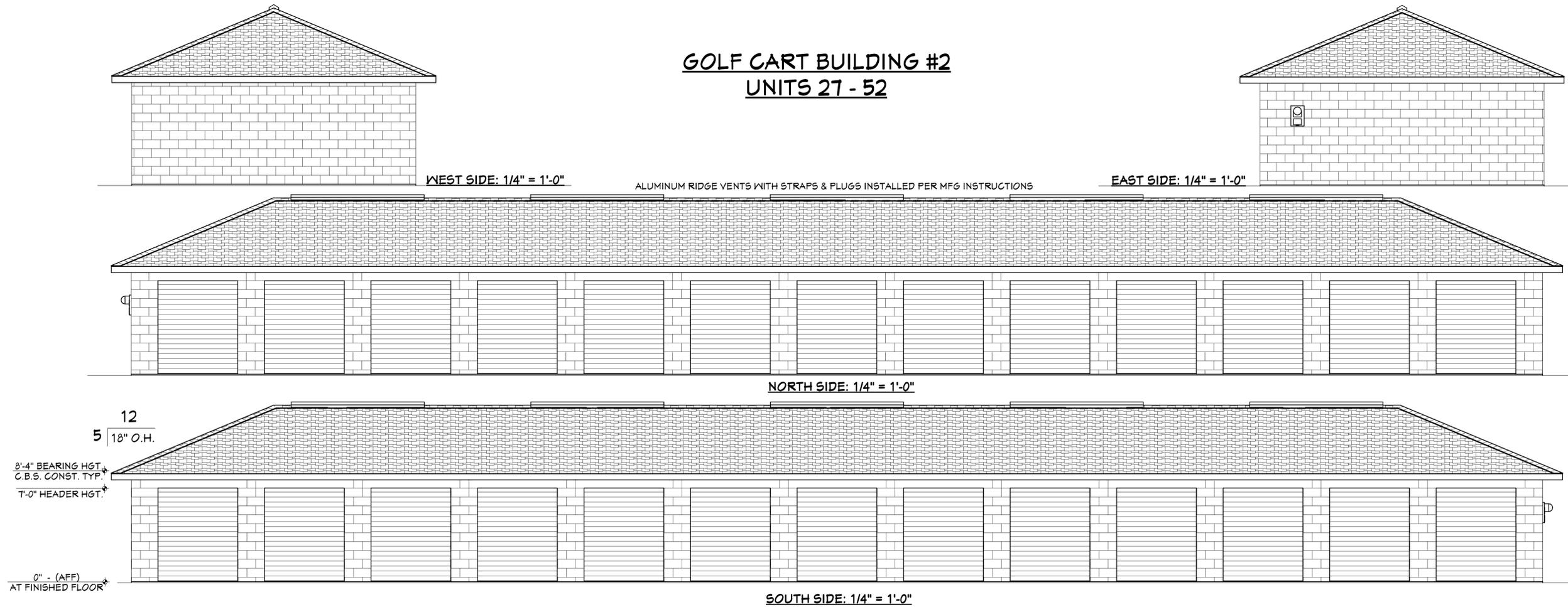
CERTIFIED STATE OF FLORIDA CONTRACTOR # 6586
 REGISTERED PROFESSIONAL ENGINEER # 33220
 MARVIN LUTHER WOLFE P.E. # 46030

CADDY SHACK GOLF CART STORAGE BUILDINGS
 THE CITY OF SEBRING
 SEBRING MUNICIPAL GOLF COURSE
 3118 GOLDFIELD RD
 SEBRING, FL 33870

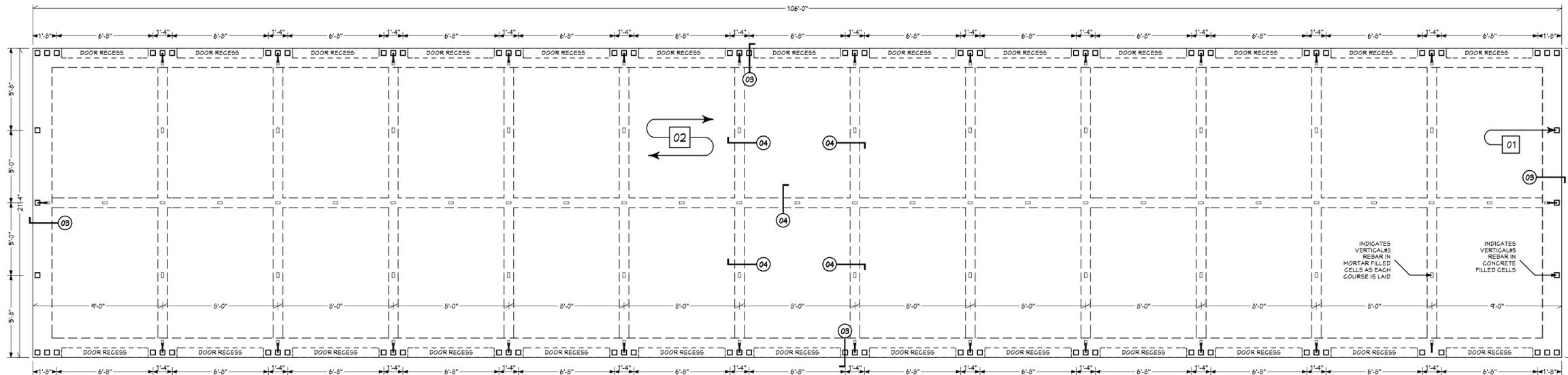
GOLF CART BUILDING #1
UNITS 1 - 26



GOLF CART BUILDING #2
UNITS 27 - 52

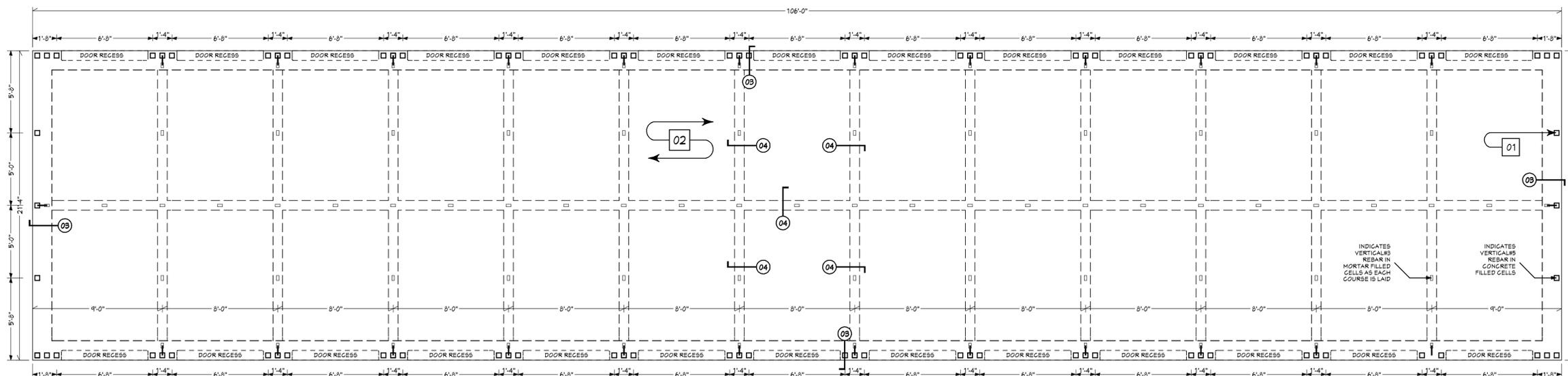


DATE	02/23/18	DR	CH
	02/26/18	DEP	DEP
REMARK	INITIAL SUBMITTAL	DEP	DEP
	REVISED BACK-BACK	DEP	DEP
DATE	04/26/18	DEP	DEP
	07/25/18	DEP	DEP
REMARK	RF ELECTRICAL	DEP	DEP
	REDLINE ELECTRICAL	DEP	DEP
DATE	09/11/18	DEP	DEP
	09/12/18	DEP	DEP
REMARK	BID SET	DEP	DEP
		DEP	DEP
JOB #	18022	SCALE	1/4" = 1'-0"
APPROVED BY:	SEAL:	DATE:	
2025 KENIL WORTH BLVD., SEBRING, FLORIDA 33870 883-385-5564 PHONE 883-385-2462 FAX CERTIFICATE OF REGISTRATION # 6584 REGISTERED PROFESSIONAL ENGINEER MARVIN LUTHER WOLFE P.E. # 46030			
CADDY SHACK GOLF CART STORAGE BUILDINGS THE CITY OF SEBRING SEBRING MUNICIPAL GOLF COURSE 3118 GOLFPVIEW RD SEBRING, FL 33870			
A-2			



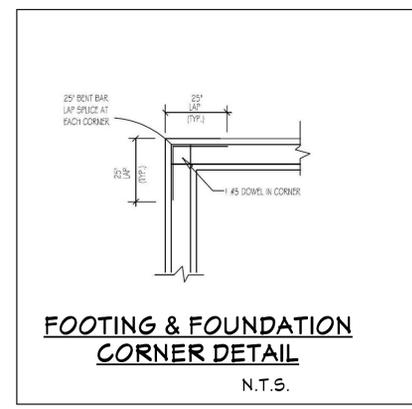
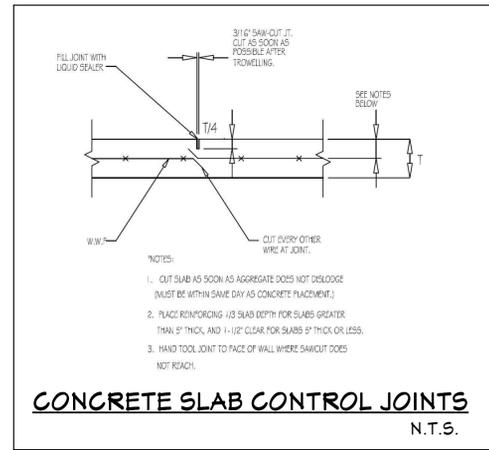
FLOOR PLAN: 1/4" = 1'-0"
BLDG #1 UNITS 1 - 26

DEMO NOTE: CONTRACTOR IS RESPONSIBLE TO REMOVE EXISTING CONCRETE, FOOTERS AND DEBRIS TO ACCOMMODATE CONSTRUCTION OF BOTH NEW BUILDINGS AS DRAWN.



FLOOR PLAN: 1/4" = 1'-0"
BLDG #2 UNITS 27 - 52

<p>01</p> <p>(TYP.) VERTICAL REINFORCEMENT: *AT ALL INSIDE AND OUTSIDE CORNERS. *6' 0" O.C. MAX. *AT EACH SIDE OF EACH OPENING. *TWO #5 BARS ARE NEEDED FOR OPENINGS WIDER THAN 12". *AT LOCATIONS WHERE A GIRDER BEAM OR GIRDER TRUSS BEAR ON MASONRY WALLS. *AT ALL #1 HIP TRUSS LOCATIONS. *CONCRETE MIXTURE 3000 PSI.</p> <p>(TYP.) DOWEL: *STANDARD 90-DEGREE HOOK: *EXTEND 10" BEYOND BEND *EMBEDDED MINIMUM 5" INTO 3" FOOTING. *EMBEDDED MINIMUM 6" INTO ALL OTHER FOOTINGS *SHALL LAP WALL REINFORCEMENT A MINIMUM OF 25" FOOTING DOWEL.</p> <p>(TYP.) MONOLITHIC FLOOR SLAB: *FOUNDATION SHALL BE FILLED WITH CLEAN FILL DIRT. *FILL DIRT SHALL BE MECHANICALLY COMPACTED TO 2000 LBS PER SQUARE FOOT, 95% MODIFIED PROCTOR, THEN GRADED TO ALLOW A CONCRETE THICKNESS OF 4". MINIMUM TO BE 3 1/2". *GRADED FILL DIRT SHALL THEN BE TERMITES TREATED AND A VAPOR BARRIER OF 6 MIL VISQUEEN LAID IN PLACE. *FLOOR CONCRETE SHALL BE REINFORCED WITH FIBER-MESH. *FLOOR CONCRETE MIXTURE SHALL BE 3000 PSI.</p>	<p>03</p> <p>(1) #5 VERTICAL IN FILLED CELL @ 6'-0" O.C. (MAX.) VERTICAL DOWN ROD SHALL RUN FROM FOOTING TO THE LINTEL & ALL STEEL LAPS SHALL BE MIN. OF 25". <small>TYPICAL</small></p> <p>16" DEEP X 16" WIDE MONO. CONC. FOOTING (TYP.) #5 CONT.</p> <p>04</p> <p>(1) #5 VERTICAL IN MORTAR FILLED CELL @ 6'-0" O.C. (MAX.) VERTICAL DOWN ROD SHALL RUN FROM FOOTING TO FORM & POURED BOND BEAM. ALL LAPS SHALL BE MIN. OF 24". <small>TYPICAL</small></p> <p>6" DEEP X 6" WIDE MONO. CONC. FOOTING (TYP.) #5 CONT.</p> <p>NOTE: #5 FILLED CELLS SHALL BE MORTAR FILL AS EACH COURSE IS LAID. <small>TYPICAL</small></p>
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DR	CH
DEP	DEP

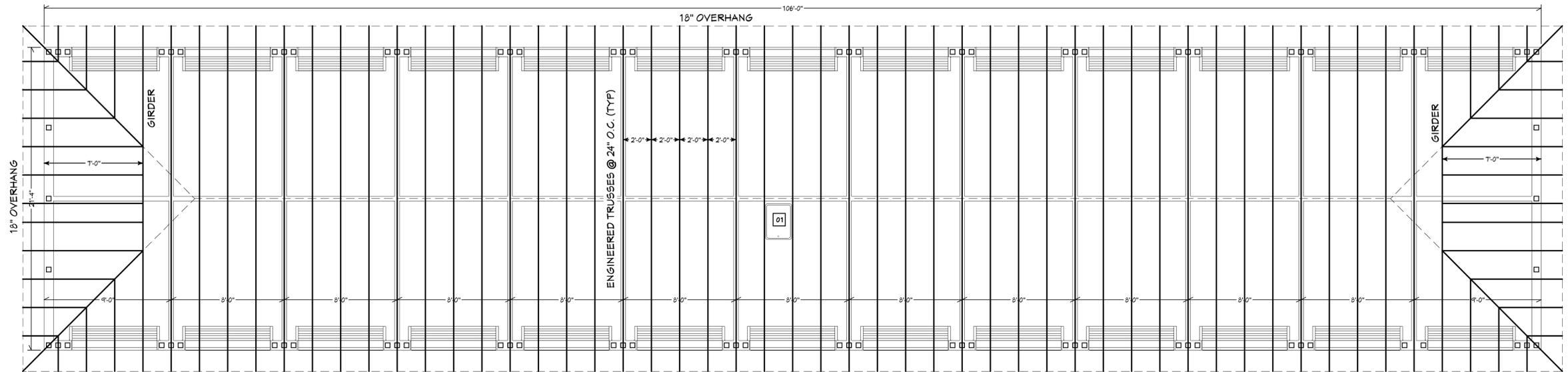
DATE	REMARK
02/23/18	INITIAL SUBMITTAL
02/26/18	REVISED BACK-BACK
04/25/18	RFI ELECTRICAL
07/25/18	REDLINE ELECTRICAL
09/11/18	ELECTRICAL
09/12/18	BID SET

JOB #	18022
SCALE	1/4" = 1'-0"

APPROVED BY: [Signature]
 3025 KENIL WORTH BLVD., SEBRING, FLORIDA 33870
 888-385-5564 PHONE
 888-385-2462 FAX
 CERTIFIED PROFESSIONAL ENGINEER # 65864
 REGISTERED PROFESSIONAL ENGINEER # 33220
 MARVIN LUTHER WOLFE P.E. # 46030



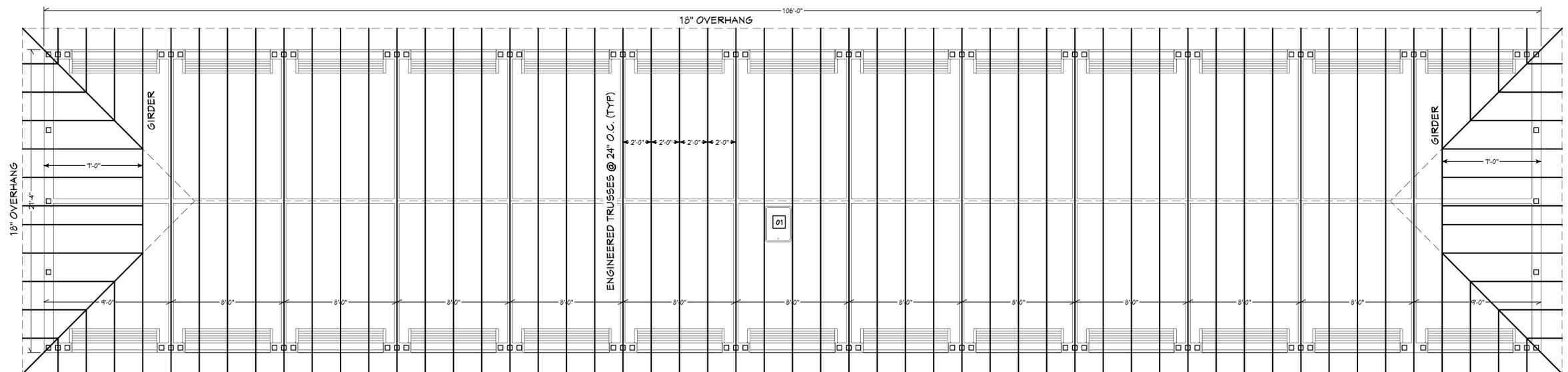
CADDY SHACK
GOLF CART STORAGE BUILDINGS
 THE CITY OF SEBRING
 SEBRING MUNICIPAL GOLF COURSE
 3118 GOLDFVIEW RD
 SEBRING, FL 33870



TRUSS LAYOUT: 1/4" = 1'-0"
BLDG #1 UNITS 1 - 26

01 22' x 30' GENERAL PURPOSE 16GA COLD ROLLED STEEL PAINTED ACCESS DOOR WITH HIDDEN PIANO HINGE & KEYED ALIKE LOCKING CYLINDERS (BEST ACCESS DOORS BA-AHD-22-30)

NOTE ALL TRUSSES SECURED w/SIMPSON META16 W/ (T) - 10d X 1 1/2 1450 UPLIFT [OR EQUIV.]



TRUSS LAYOUT: 1/4" = 1'-0"
BLDG #2 UNITS 27 - 52

01 22' x 30' GENERAL PURPOSE 16GA COLD ROLLED STEEL PAINTED ACCESS DOOR WITH HIDDEN PIANO HINGE & KEYED ALIKE LOCKING CYLINDERS (BEST ACCESS DOORS BA-AHD-22-30)

NOTE ALL TRUSSES SECURED w/SIMPSON META16 W/ (T) - 10d X 1 1/2 1450 UPLIFT [OR EQUIV.]

"All truss to truss connections are the responsibility of the truss designer, per ANSI/TPI."

"Structural design is based on truss framing shown here. Deviations from this framing may void the structural design. Contractor/owner to provide Marvin Luther Wolfe P.E. with final truss engineering for review prior to truss fabrication."

"All continuous lateral web bracing shown on the truss design drawings shall be minimum 2x4 #3 So. pine and shall be connected to each truss member with (2) 16d nails. Brace all GLB runs per the latest edition of WTC's BCSI."

TCLL: 20psf
 TCCL: 1psf
 BCLL: Non-concurrent 10psf
 BCCL: 10psf

ABOVE ALL DOOR OPENINGS



NOTE: #5 REBAR TO BE TIED TO VERT. REINF. @ EA END OF OPENING
 NOTE: ALL PRECAST ARE CASTCRETE OR APPROVED EQUAL

COMPOSITE BEAM DETAIL N.T.S.

DATE	REMARK	DR	CH
02/23/18	INITIAL SUBMITTAL	DR	CH
02/26/18	REVISED BACK-BACK	DR	CH
04/25/18	RFI ELECTRICAL	DR	CH
07/25/18	REDLINE ELECTRICAL	DR	CH
09/11/18	ELECTRICAL	DR	CH
09/12/18	BID SET	DR	CH

APPROVED BY: [Signature]
 2025 KENIL WORTH BLVD., SEBRING, FLORIDA 33870
 888-385-5564 PHONE
 888-385-2462 FAX
 CERTIFICATE OF REGISTRATION # 6586
 MARVIN LUTHER WOLFE P.E. # 46030

Polston Engineering
 PE

CADDY SHACK GOLF CART STORAGE BUILDINGS
 THE CITY OF SEBRING
 SEBRING MUNICIPAL GOLF COURSE
 3118 GOLFVIEW RD
 SEBRING, FL 33870

GENERAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE AND THE 2014 NATIONAL ELECTRICAL CODE. WORK SHALL ALSO COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS OF LOCAL LAWS AND ORDINANCES.
2. CONTRACTOR SHALL MAKE A THOROUGH EXAMINATION OF THE SITE AND THE CONTRACT DOCUMENTS. NO CLAIM FOR EXTRA COMPENSATION WILL BE RECOGNIZED IF DIFFICULTIES ARE ENCOUNTERED WHICH AN EXAMINATION OF SITE CONDITIONS AND CONTRACT DOCUMENTS PRIOR TO EXECUTING CONTRACT WOULD HAVE REVEALED.
3. ELECTRICAL CONTRACTOR SHALL ARRANGE FOR ALL NECESSARY PERMITS, LICENSES, UTILITY COORDINATION AND INSPECTIONS BY THE CITY OF SEBRING OR UTILITY COMPANY. CONTRACTOR IS RESPONSIBLE FOR ALL EQUIPMENT REQUIRED BY UTILITY COMPANY AND SHOULD INCLUDE NECESSARY COSTS IN BID.
4. CONTRACTOR SHALL LEGIBLY MARK-UP A SET OF 24"x36" DRAWINGS TO REFLECT AS-BUILT CONDITIONS AND TURN OVER TO ARCHITECT WITHIN 30 DAYS AFTER THE DATE OF PROJECT ACCEPTANCE. REVISED DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER.
5. AN OPERATING MANUAL AND MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER FOR THE ENERGY CODE C405.4.2. THE MANUALS SHALL INCLUDE AT A MINIMUM, THE FOLLOWING:
 - SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
 - OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
 - NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
6. ALL EQUIPMENT INSTALLED SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) AND/OR LISTED AND LABELED AS AN ASSEMBLY BY AN NRTL PER NEC ARTICLE 90.7.

WIRING:

1. ALL CONDUCTORS SHALL BE COPPER. CONDUCTOR INSULATION SHALL BE DUAL TYPE THIN/THIN 75C (187F) FOR DRY, DAMP, AND WET LOCATIONS. CONDUCTOR INSULATION WITH SINGLE TYPE MARKING THIN 90C (182F) MAY BE USED FOR DRY LOCATIONS ONLY. ALL CONDUCTORS SHALL BE COLOR CODED AS REQUIRED BY NEC AND FURTHER IDENTIFIED AND COLORED AS SPECIFIED HEREINAFTER. COLOR CODING SHALL BE BY MEANS OF COLORED INSULATING MATERIAL, COLORED Braid OR JACKET OVER THE INSULATION OR BY MEANS OF SURFACE COLORED PERMANENT NON-ABRASIVE PAINT. THE COLOR CODING SHALL BE ACCOMPLISHED AS THE CONDUCTORS ARE INSTALLED. THE FOLLOWING TABLES SHALL BE STRICTLY ADHERED TO:

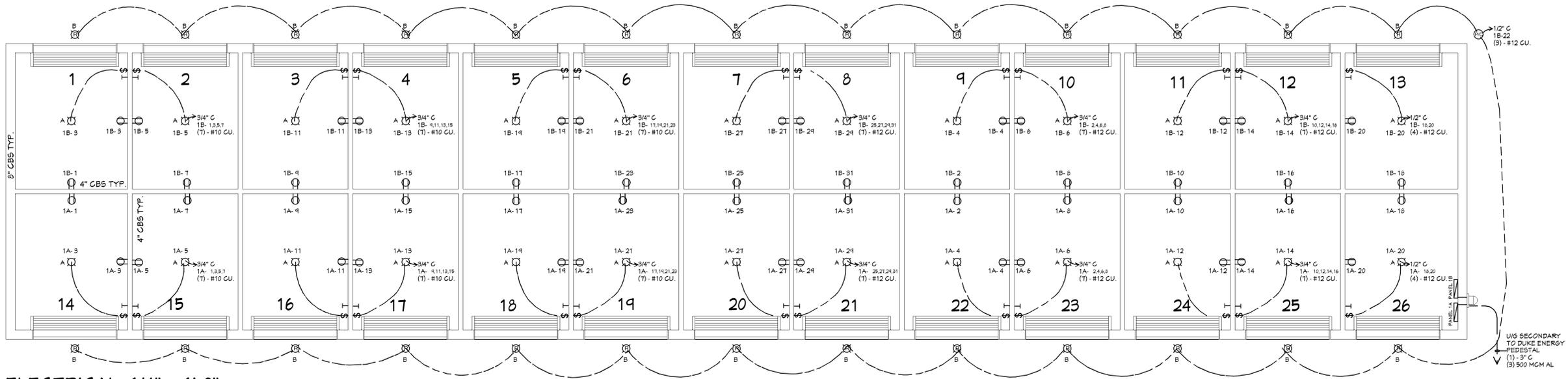
A) GROUND LEADS: GREEN

B) 120/208 VOLT UNGROUNDED PHASE WIRES:
 PHASE A: BLACK
 PHASE B: RED
 PHASE C: BLUE
 NEUTRAL: WHITE

C) 277/480 VOLT UNGROUNDED PHASE WIRES:
 PHASE A: BROWN
 PHASE B: ORANGE
 PHASE C: YELLOW
 NEUTRAL: GRAY

D) 120/240 VOLT UNGROUNDED PHASE WIRES:
 PHASE A: BLACK
 PHASE B: ORANGE (HIGH LEG)
 PHASE C: BLUE
 NEUTRAL: WHITE

E) 120/240 VOLT UNGROUNDED PHASE WIRES:
 PHASE A: BLACK
 PHASE B: RED
 NEUTRAL: WHITE



ELECTRICAL: 1/4" = 1'-0"
BLDG #1 UNITS 1 - 26

THE COLOR CODE ASSIGNED TO EACH PHASE WIRE SHALL BE CONSISTENTLY FOLLOWED THROUGHOUT.

2. THE CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS COMBINED SHALL BE SIZED FOR A MAXIMUM 5% PERCENT VOLTAGE DROP TOTAL PER NEC C405.3.
3. ALL INTERIOR BUILDING CONDUCTORS SHALL BE RUN IN THIN WALL CONDUIT AND THIN WALL CONDUIT SHALL BE UNDERWRITERS' APPROVED GALVANIZED ELECTRICAL METALLIC TUBING. COUPLINGS AND CONNECTORS SHALL BE STEEL, COMPRESSION TYPE, ZINC OR CADMIUM PLATED. BELOW GRADE CONDUITS SHALL BE SCHEDULE 40 PVC WITH RIGID METAL ENDINGS AND RISERS. RIGID METAL CONDUIT BELOW GRADE OR ON CONCRETE SHALL BE COATED WITH BITUMASTIC OR OR SLEEVES WITH 10 MIL POLYETHYLENE. SITE CONDUITS SHALL BE RIGID AT 4" BELOW GRADE AND CONDUITS RIGID BELOW BUILDINGS SHALL BE AT 36". EXTERIOR CONDUITS SHALL BE RIGID GALVANIZED STEEL.

PENDING OWNER APPROVAL METAL CLAD CABLE (TYPE MC) IS ACCEPTABLE PROVIDED CABLE IS SUPPLIED WITH AN INSULATED GREEN EQUIPMENT GROUND CONDUCTOR AND MAY ONLY BE USED UNDER THE FOLLOWING CONDITIONS:

- a) SHORT RUNS IN WALLS.
- b) BETWEEN OUTLET BOXES IN HUNG OR FINISHED CEILING, AND FLOUSH TYPE LIGHTING FIXTURES AND TROUGH UNITS.
- c) CONNECTOR TO EQUIPMENT SHALL NOT BE USED FOR ANY CIRCUIT WITH OVER A 20 AMP CIRCUIT BREAKER.
- d) HOME-RUNS OF MULTI-CONDUCTOR CABLE WILL BE ALLOWED. CABLING MUST BE PROPERLY SUPPORTED AND COMPLY WITH ALL NEC CODES.
- e) MINIMUM OF 6 CIRCUITS OR 12 CONDUCTORS IN A HOME-RUN.
- f) SHALL BE APPROVED FOR BRANCH CIRCUIT WIRING (20 AMPS & UNDER ONLY) IN CEILING SPACES AND WITHIN WALLS.

METAL CLAD CABLE IS NOT ACCEPTABLE UNDER THE FOLLOWING CONDITIONS:

- a) BRANCH CIRCUITS OVER 20 AMPS.
- b) WHERE CABLING WILL BE EMBEDDED IN CONCRETE.
- c) WHERE CABLING WILL BE EXPOSED TO MOISTURE.
- d) WHERE PROHIBITED BY LOCAL CODE.

4. COMBINING OF CIRCUITS IN SAME RACEWAY, OTHER THAN THOSE INDICATED ON DRAWINGS, WILL NOT BE PERMITTED.
5. ALL RACEWAYS SHALL BE PROPERLY ALIGNED, GROUPED, AND SUPPORTED BY MECHANICAL TYPE 'CADDY' CLIPS AT INTERVALS NOT EXCEEDING 8 FEET.
6. ALL RACEWAYS SHALL BE PROPERLY ALIGNED, GROUPED, AND SUPPORTED BY MECHANICAL TYPE 'CADDY' CLIPS AT INTERVALS NOT EXCEEDING 8 FEET. LIGHTING FIXTURES AND SIMILAR CIRCUITS SHALL BE PROVIDED WITH A FAIRLY SIZED GREEN EQUIPMENT GROUND CONDUCTOR. GROUND CONDUCTOR SHALL BE INSTALLED IN EXTERIOR RACEWAY SYSTEM INCLUDING WALL SWITCHES AND FLEXIBLE CONDUIT TO LIGHT FIXTURES. EQUIPMENT GROUND CONDUCTOR SIZES FOR CIRCUITS WITH PHASE CONDUCTORS LARGER THAN NO. 12 AWG ARE INDICATED ON DRAWINGS. GROUND CONDUCTORS SHALL BE CONNECTED TO GROUND BUSS IN PANELBOARDS.
7. RACEWAY PENETRATIONS OF FIRE RATED WALLS AND/OR FLOORS SHALL BE SEALED TO MAINTAIN INTEGRITY OF CONSTRUCTION. ALL PRODUCTS, MATERIALS AND METHODS OF INSTALLATION SHALL BE UL APPROVED AND MEET NFPA.

GROUNDING:

1. THE ENTIRE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED BY NATIONAL ELECTRICAL CODE. ALL METALLIC RACEWAYS SHALL BE MECHANICALLY AND ELECTRICALLY SECURE AT ALL JOINTS AND AT ALL BOXES, CABINETS, FITTINGS AND EQUIPMENT.
2. THE GROUNDING SYSTEM SHALL BE TESTED BY THE CONTRACTOR. THE RESISTANCE TO GROUND SHALL BE NO MORE THAN (5) OHMS. SUBMIT TEST RESULTS TO ENGINEER. CONTRACTOR SHALL MAKE UPDATES AND ADJUSTMENTS TO GROUNDING SYSTEM AS REQUIRED TO ACHIEVE THE (5) OHM REQUIREMENT.
3. PROVIDE NO. 6 AMP GROUND CONDUCTOR AT TELEPHONE BOARD AND CONNECTION TO THE MAIN SERVICE ENTRANCE GROUND. PROVIDE TIGHT OF SLACK ON BOARD.

OUTLET BOXES/DEVICES:

1. COORDINATE DEVICE AND COVER PLATE COLORS WITH ARCHITECT.
2. ALL OUTLET BOXES SHALL BE RIGIDLY MOUNTED AND SHALL BE EQUIPPED WITH SUITABLE COVER FASTENED COVERS. OPEN CONDUITS TO OUTLET BOXES SHALL BE PLUGGED WITH SUITABLE BLANKING DEVICE.
3. OUTLET BOXES SHALL BE 4 INCH SQUARE x 2-1/2" DEEP. OUTLET BOXES LOCATED ABOVE THE CEILING SHALL BE LEGIBLY IDENTIFIED WITH BRICK OR PLASTER NUMBER OF CIRCUIT TERMINATED WITHIN BY MEANS OF BLACK PERMANENT MARKER.
4. RECEPTACLES WITHIN (6) FEET OF A SINK SHALL HAVE GFCI PROTECTION.

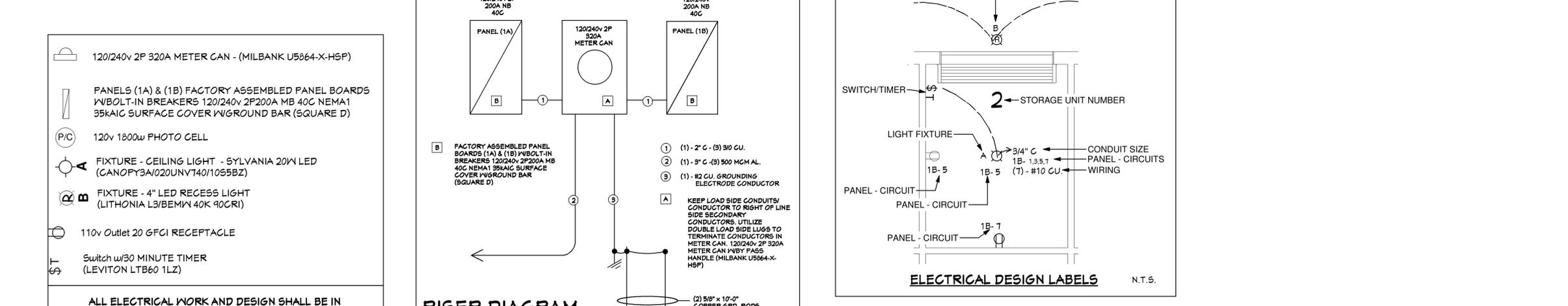
SWITCHES:

1. PANELBOARDS SHALL BE MANUFACTURED BY SQUARE 'D' COMPANY, TYPE AS SHOWN ON DRAWINGS OR APPROVED EQUALS. EATON & SHERMAN, FURNISH WITH COPPER BUS BARS, COPPER EQUIPMENT GROUND BUS AND BOLT-ON CIRCUIT BREAKERS.
2. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE AND MANUFACTURED BY SQUARE 'D' COMPANY OR APPROVED EQUALS. EATON OR SHERMAN. FUSES SHALL BE DUAL ELEMENT, CARTRIDGE TYPE. FUSES SHALL BE BY ONE MANUFACTURER: BUSHMAN 'TUSSEK' OR CHASE-SHANNETT 'TRONIC'.
3. INSTALL ENGRAVED PLASTIC-LAMINATE LABELS ON EACH MAJOR UNIT OF ELECTRICAL EQUIPMENT IDENTIFYING PANELBOARD NAME OR EQUIPMENT SERVING. EXAMPLES ARE PANELBOARDS, DISCONNECT SWITCHES, AND MOTOR STARTERS, I.E. LABELS SHALL BE 1/16" THICK BLACK PLASTIC LAMINATE WITH 3/8" WHITE CORE PLU LETTERS.
4. PANELBOARD DIRECTORY CARDS SHALL BE TYPEWRITTEN WITH ACCURATE AND CURRENT INFORMATION BY THE CONTRACTOR AT THE END OF CONSTRUCTION.
5. MAGNETIC FULL VOLTAGE STARTERS SHALL BE SQUARE 'D' CLASS 8336, MAGNETICALLY OPERATED WITH THREE THERMAL OVERLOAD UNITS AND FOUR AUXILIARY CONTACTS. CONTROL VOLTAGE SHALL BE 24 VOLTS SUPPLIED FROM AN INTERNAL CONTROL POWER TRANSFORMER WHERE NO OTHER SOURCE OF CONTROL POWER IS INDICATED. HOA SWITCHES SHALL BE MOUNTED IN FRONT COVER. COMBINATION UNITS SHALL BE SQUARE 'D' CLASS 8338 WITH THREE POLE HOUSING POWER RATED. NON-DISSOLUBLE DISCONNECT SWITCHES INCLUDED IN THE ENDOUSE OR APPROVED EQUALS. EATON OR SHERMAN.
6. ALL MULTI-WIRE BRANCH CIRCUIT BREAKERS ARE TO BE RED TOGETHER BY AN IDENTIFIED HANDLE-TIE OR BY A COMMON TRIP CIRCUIT BREAKER PER 2014 NEC SECTION 210.4(B).
7. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES PER NEC ARTICLE 210.4(B).

LIGHTING FIXTURES:

1. THE CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE IN ALL RESPECTS ALL LIGHTING FIXTURES LISTED IN THE FIXTURE SCHEDULE.
2. THE CONTRACTOR SHALL SUBMIT CATALOG CUTS OF ALL THE FIXTURES TO THE ARCHITECT. THEIR CUTS SHALL BE SUBMITTED IMMEDIATELY AFTER THE CONTRACTOR HAS RECEIVED AN APPROVED MATERIAL LIST FROM THE ARCHITECT.
3. BALLASTS FOR FLUORESCENT LAMPS SHALL BE ELECTRONIC RAPID START WITH COS TOTAL HARMONIC DISTORTION MANUFACTURED BY SHERMAN. ALL BALLASTS FOR FLUORESCENT FIXTURES SHALL BE INDIVIDUALLY FUSED. FUSES SHALL BE INSTALLED ON THE LINE SIDE OF THE BALLAST.
4. LED FIXTURES SHALL HAVE 3500K COLOR TEMP.
5. LED FIXTURES SHALL COMPLY WITH UL STANDARD ILL012 AND SHALL HAVE CLASS A SOUND RATING.
6. FLUORESCENT LAMPS SHALL BE RAPID START, T8/32 WATT, 3500K. ALL LAMPS SHALL BE AS MANUFACTURED BY SHERMAN.
7. ALL FIXTURES SHALL BE PROPERLY AND CAREFULLY SUPPORTED AND ALIGNED, AND THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY STEEL SHAPES, ETC. FOR SUPPORT OF FIXTURES AS REQUIRED AND DETAIL ON THE DRAWINGS. FIXTURE JOINTION BOX STEM MOUNTED FROM DECK TO SUPPORT ALL CEILING MOUNTED EXIT LIGHTS.
8. FLUORESCENT LIGHTING FIXTURES SHALL BE CLEAN AND LAMPED WITH NEW LAMPS AT THE TIME OF FINAL INSPECTION.
9. COORDINATE ALL LOCATIONS OF LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS.
10. ALL FLUORESCENT FIXTURES SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL IN ACCORDANCE WITH 2011 NEC ARTICLE 410.100(9)(1).

ELECTRICAL: 1/4" = 1'-0"
BLDG #2 UNITS 27 - 52

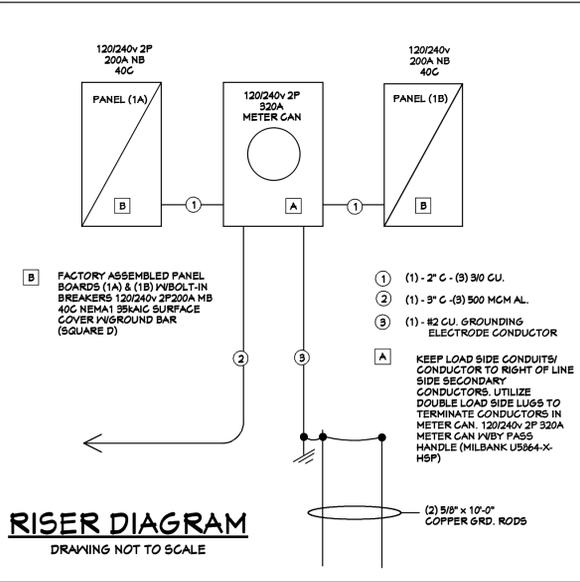


ELECTRICAL: 1/4" = 1'-0"
BLDG #2 UNITS 27 - 52

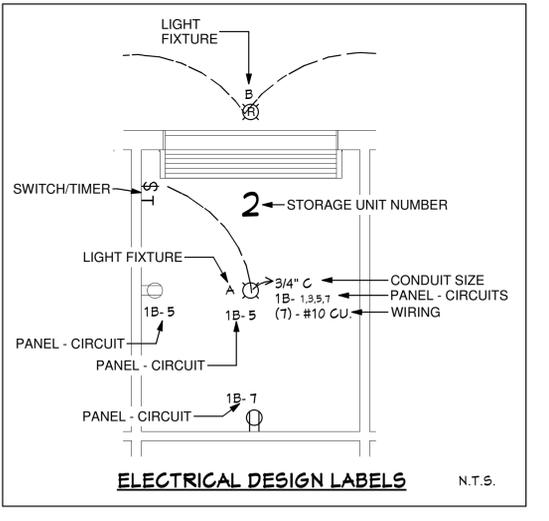
LEGEND:

- 120/240v 2P 320A METER CAN - (MILBANK U5864-X-HSP)
- PANELS (1A) & (1B) FACTORY ASSEMBLED PANEL BOARDS W/BOLT-IN BREAKERS 120/240v 2P200A MB 40C NEMA1 35KAIC SURFACE COVER W/GROUND BAR (SQUARE D)
- 120v 1800w PHOTO CELL
- FIXTURE - CEILING LIGHT - SYLVANIA 20W LED (CANOPY3A1020UNV1401055B2)
- FIXTURE - 4" LED RECESS LIGHT (LITHONIA L3/BEMV 40K 90CR1)
- 110v Outlet 20 GFCI RECEPTACLE
- Switch w/30 MINUTE TIMER (LEVITON LTB60 1LZ)

ALL ELECTRICAL WORK AND DESIGN SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE 2014 AND COMPLY WITH ALL LOCAL CODES



RISER DIAGRAM
 DRAWING NOT TO SCALE



ELECTRICAL DESIGN LABELS
 N.T.S.

ELECTRICAL IS NOT PART ON THIS STRUCTURAL REVIEW

DR	CH	REMARK	DATE	JOB #	SCALE
DEP	DEP	INITIAL SUBMITTAL	02/23/18	18022	1/4" = 1'-0"
DEP	DEP	REVISED BACK-BACK	02/26/18		
DEP	DEP	RFI ELECTRICAL	04/29/18		
DEP	DEP	REDLINE	07/25/18		
DEP	DEP	ELECTRICAL	09/11/18		
DEP	DEP	BID/SET	09/12/18		

APPROVED BY: [Signature]

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 MARVIN LUTHER WOLFE P.E. # 46830

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