GENERAL

A. THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.

B. NOT ALL EXISTING CONDITIONS, PROPOSED CONDITIONS, OR UTILITIES ARE SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE STRUCTURAL WORK WITH THE WORK OF OTHER TRADES. IN CASE OF CONFLICT, NOTIFY THE ENGINEER OF RECORD.

C. THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETE STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND STRUCTURE DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE. TEMPORARY BRACING FOR THE STRUCTURE MUST BE PROVIDED IN ALL DIRECTIONS.

D. ONLY USE DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS.

E. ELEVATIONS INDICATED ON THE STRUCTURAL DRAWINGS ARE BASED ON A PROJECT DATUM INDICATED ON THE ARCHITECTURAL DRAWINGS.

DESIGN CRITERIA:

A. VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUSBC), 2012 EDITION

B. ASCE 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

C. ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

D. AISC 360-10 SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS

E. AISI S100-12 SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS

F. NDS-2015, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION

DELEGATED ENGINNERING:

THE FOLLOWING SYSTEMS REQUIRE DELEGATED ENGINEERING. REVIEW SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.

A. COLD-FORMED METAL FRAMING AND TRUSSES.
B. STRUCTURAL STEEL - CONNECTIONS.
C. STEEL OPEN WEB JOISTS.
D. ACCESS LADDERS.
E. GATES, DOORS, AND FENESTRATION SYSTEMS

DESIGN LOADING:

A. ROOF SUPERIMPOSED DEAD LOADS: 10 PSF
ROOF LIVE LOADS: 20 PSF

B. SNOW LOADING:

1. GROUND SNOW LOAD, PG: 10 PSF
2. FLAT-ROOF SNOW LOAD, PF: 7 PSF
3. SNOW EXPOSURE FACTOR, CF: 1.00
4. SNOW LOAD IMPORTANCE FACTOR, IS: 1.00
5. THERMAL FACTOR, CF: 1.00
6. SNOWDRIFT LENGTH, SDL: 8'-0"
7. SNOWDRIFT LOAD, SD: 38 PSF

C. WIND LOADING

1. ULTIMATE DESIGN WIND SPEED, VULT: 118 MPH
2. NOMINAL WIND SPEED, VASD: 92 MPH
3. RISK CATEGORY (TABLE 1.5-1, ASCE 7): II
4. WIND EXPOSURE: B
5. ENCLOSURE CLASSIFICATION: ENCLOSED (+/- 0.18)
6. COMPONENT AND CLADDING: REF. CHARTS THIS SHEET
7. NET UPLIFT LOADING(ASD - STEEL JOIST): REF. CHARTS THIS SHEET FOR C&C WIND PRESSURES. USE 10 PSF MAX DEAD LOAD FOR UPLIFT CALCULATIONS. USE 22 PSF MIN. UPLIFT LOAD

D. SEISMIC LOADING (DESIGN CATEGORY AND CLASS)

1. RISK CATEGORY: II
2. SEISMIC IMPORTANCE FACTOR: 1.0
3. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
   a. SS: 0.092 g
   b. S1: 0.047 g
4. SITE CLASS: D
5. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
   a. SDS: 0.098 g
   b. SD1: 0.076 g
6. SEISMIC DESIGN CATEGORY: B
7. BASIC SEISMIC FORCE-RESISTING SYSTEM(S): "H" ASCE 7-10 TABLE 12.2-1
8. DESIGN BASE SHEAR (S): 30 KIPS
9. SEISMIC RESPONSE COEFFICIENT, CS: 0.1
10. RESPONSE MODIFICATION COEFFICIENT(S), R: 3.0
11. ANALYSIS PROCEDURE USED: ASCE 7-10, EQUIV. LATERAL METHOD

E. FLOOD DESIGN DATA: NOT APPLICABLE

F. DESIGN LOAD-BEARING VALUES OF SOIL: 2000PSF

01003 SUBMITTALS

A. SEE SECTION 01003-03 IN THE PROJECT MANUAL AND SPECIFICATIONS FOR THE LIST OF REQUIRED STRUCTURAL SUBMITTALS / SHOP DRAWINGS.

B. IN ADDITION TO THE SUBMITTALS LISTED IN THE PROJECT MANUAL AND SPECIFICATIONS, THE FOLLOWING SHOP DRAWING IS REQUIRED.

1. PREFABRICATED LIGHT GAUGE METAL ROOF TRUSSES.
2. CLIPS, SCREWS, BOLTS, AND FASTENER PRODUCT SHEETS
3. SEE SECTION 01002-14 "SHOP DRAWINGS SUBMITTAL" IN THE PROJECT MANUAL AND SPECIFICATIONS FOR SUBMITTAL RESPONSIBILITIES AND REQUIREMENTS.

02001 EARTHWORK / FOUNDATION

A. FOUNDATION DESIGN IS BASED UPON THE FOLLOWING SOILS REPORT:
COMPANY NAME: GET SOLUTIONS, INC
DATE: JULY 18, 2017
GET PROJECT NO: VB17-228G
THE DESIGN ALLOWABLE SOIL BEARING PRESSURE IS LISTED IN THE DESIGN LOADING CRITERIA.

B. SEE SECTION 02001-04 IN THE PROJECT MANUAL AND SPECIFICATIONS FOR EARTHWORKS TO INCLUDE BUT NOT LIMITED TO:

1. PREPARING AND GRADING SUBGRADES FOR SLABS-ON-GRADE
2. EXCAVATING AND BACKFILLING FOR BUILDINGS AND STRUCTURES
3. DRAINAGE AND MOISTURE - CONTROL FILL COARSE FOR SLABS-ON-GRADE
4. EXCAVATING AND BACKFILLING TRENCHES WITHIN BUILDING LINES
5. MATERIAL, INSPECTION, AND TESTING REQUIREMENTS

C. ANY FILL REQUIRED TO BACKFILL EXCAVATED AREAS OR ACHIEVE FINISHED GRADE IN STRUCTURAL AREAS SHALL BE AS INDICATED BY GEOTECHNICAL ENGINEER. THE FILL SHALL BE PLACED IN LEVEL LIFTS NOT EXCEED 12" LOOSE THICKNESS AND COMPACTED TO A MINIMUM OF 95% OF THE SOIL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY ASTM SPECIFICATION D-1557

D. IN-PLACE DENSITY TESTS SHALL BE PERFORMED BY AN EXPERIENCED ENGINEERING TECHNICIAN. TESTS SHALL BE PERFORMED FOR EACH 2,000 SQUARE FEET, IN EVERY COLUMN FOOTING LOCATION AND EVERY 50'-0" ALONG WALL FOOTINGS. COPIES OF THE TEST REPORTS SHALL BE FURNISHED TO THE STRUCTURAL ENGINEER.

E. REMOVE FREE WATER FROM EXCAVATIONS BEFORE PLACING CONCRETE. WATER TABLE ASSUMED BELOW 6'-0" EXCLUDING BUOYANCY CONDITIONS ON FOOTINGS.

F. CAUTION SHOULD BE USED WHEN OPERATING VIBRATORY COMPACTING EQUIPMENT NEAR THE EXISTING STRUCTURE TO AVOID THE RISK OF DAMAGE TO THE STRUCTURE.

G. REFER TO ARCHITECTURE DRAWINGS FOR ANY NECESSARY WATERPROOFING REQUIREMENTS.

03301 CAST-IN-PLACE CONCRETE

A. SEE SECTION 03301 IN THE PROJECT MANUAL AND SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO:

1. GENERAL REQUIREMENTS
   a. SUBMITTALS
   b. QUALITY ASSURANCE / CODE REQUIREMENTS
2. PRODUCT / MATERIAL REQUIREMENTS
3. EXECUTION OF WORK REQUIREMENTS
   a. SHORING
   b. VAPOR RETARDER
   c. JOINTS
   d. PLACEMENT / FINISHING
   e. CURING
4. QUALITY CONTROL – TESTING REQUIREMENTS

B. SUMMARY OF PROJECT MANUAL AND SPECIFICATIONS SECTION 03301-02 PRODUCTS:

1. CONCRETE STRENGTH: 4,000 PSI
2. STEEL REINFORCEMENT: 60 KSI
3. PLAIN-STEEL WIRE FABRIC: ASTM A1064 FLAT SHEETS

04200 UNIT MASONRY

A. SEE SECTION 04200 IN THE PROJECT MANUAL AND SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO:

1. GENERAL REQUIREMENTS
   a. SUBMITTALS
   b. MATERIAL REQUIREMENTS
   c. HOT-WEATHER AND COLD-WEATHER REQUIREMENTS
2. PERFORMANCE REQUIREMENTS
   a. MASONRY COMPRESSIVE STRENGTH (f'm): 1,500-PSI
3. PRODUCTS
4. EXECUTION
5. FIELD QUALITY CONTROL

B. SUMMARY OF PROJECT MANUAL AND SPECIFICATIONS SECTION 04200-03 PRODUCTS:

1. CONCRETE MASONRY UNITS: ASTM C 90 - NORMAL WEIGHT, TYPE (I) MOISTURE CONTROLLED
2. MORTAR: ASTM C 270, TYPE S
3. GROUT: ASTM C476, COARSE (MIN. 2,000-PSI)
4. STEEL REINFORCING BARS: ASTM A 615 - GRADE 60
5. MASONRY JOINT REINFORCEMENT: ASTM A 951 HOT-DIP GALVANIZED CARBON STEEL WIRE

C. LAP SPLICE REINFORCEMENT IN CMU LENGTH = 21 INCHES (#5 BARS).

05120 STRUCTURAL STEEL

A. SEE SECTION 05120 IN THE PROJECT MANUAL AND SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO:

1. GENERAL REQUIREMENTS
   a. FABRICATOR REQUIREMENTS
   b. SUBMITTALS
   c. CODE REQUIREMENTS
2. PRODUCT / MATERIAL REQUIREMENTS
3. PAINTING REQUIREMENTS
4. EXECUTION OF WORK REQUIREMENTS
   a. FABRICATION
   b. ERECTION
5. QUALITY ASSURANCE REQUIREMENTS (INSPECTIONS & TESTING)

B. SUMMARY OF PROJECT MANUAL AND SPECIFICATIONS 05120 PRODUCTS:

1. MATERIALS:
   a. W SHAPES: ASTM A992 (50 KSI)
   b. TUBE SHAPES: ASTM A500 GR. B (46 KSI)
   c. CHANNELS AND ANGLES: ASTM A36 (36 KSI)
   d. PLATES: ASTM A36 (36 KSI)
   e. BOLTS: ASTM A 325
   f. ANCHOR BOLTS/RODS: ASTM F 1554, GRADE 36
   g. ANCHOR BOLT WASHERS: ASTM F 844
   h. ELECTRODES FOR WELDING: AWS CODE E70XX

C. TEMPLATES SHALL BE PROVIDED FOR ALL ANCHOR BOLTS/RODS CAST IN CONCRETE.

D. GALVANIZE STEEL MEMBERS INDICATED ON PLANS

1. GALVANIZE STEEL MEMBERS, FABRICATIONS AND ASSEMBLIES AFTER FABRICATION BY THE HOT-DIP PROCESS IN ACCORDANCE WITH ASTM A 123.
2. COATING REQUIREMENTS:
   a. CONFORM TO PARAGRAPH 6.1 OF ASTM A 123, TABLE 1 OF ASTM A 153, OR TABLE 2 OF ASTM A 767 AS APPROPRIATE.
   b. SURFACE FINISH: CONTINUOUS, ADHERENT, AS SMOOTH AND EVENLY DISTRIBUTED AS POSSIBLE AND FREE FROM ANY DEFECT DETRIMENTAL TO THE END USE OF THE COATED ARTICLE.
   c. ADHESION: WITHSTAND NORMAL HANDLING CONSISTANT WITH THE NATURE AND THICKNESS OF THE COATING AND NORMAL USE OF THE ARTICLE.
3. REPAIR OF DAMAGED COATING: REPAIR DAMAGED AREAS BY WELDING, FLAME CUTTING OR DURING HANDLING, TRANSPORT OR ERECTION BY ONE OF THE APPROVED METHODS IN ACCORDANCE WITH ASTM A 780 WHENEVER DAMAGE EXCEEDS 3/16" IN WIDTH. MINIMUM THICKNESS REQUIREMENTS FOR THE REPAIR ARE THOSE DESCRIBED IN ASTM A123 SECTION 6.2 CURRENT EDITION.

E. GROUT UNDER BEARING PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH A COMPRESSIVE STRENGTH OF AT LEAST 6000 PSI WHEN BEARING ON 3000 PSI CONCRETE AND 8000 PSI WHEN BEARING ON 4000 PSI CONCRETE.

05210 STEEL JOISTS

A. SEE SECTION 05120 IN THE PROJECT MANUAL AND SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO:

1. GENERAL REQUIREMENTS – STEEL JOISTS
   a. SUBMITTALS
   b. QUALITY ASSURANCE – REFERENCE SPECIFICATION REQUIREMENTS
   c. DELIVERY, STORAGE, AND HANDLING REQUIREMENTS
2. PRODUCT / MATERIAL REQUIREMENTS
   a. JOISTS, BRIDGING, AND ACCESSORIES
   b. PAINTING
3. EXECUTION OF WORK REQUIREMENTS
   a. INSTALLATION
4. QUALITY ASSURANCE REQUIREMENTS (INSPECTIONS & TESTING)

B. ALL JOISTS SHOWN IN THE PLANS ARE MINIMUM SIZES. DEPTH CANNOT BE INCREASED WITHOUT WRITTEN APPROVAL FROM ENGINEER OF RECORD.

C. STEEL JOIST FRAMING SHALL BE DESIGNED PER THE LOADING SHOWN IN SHEETS S1 & S3

D. DIAGONAL BRIDGING / BRACING SHALL BE BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS DISCONTINUOUS.

05310 STEEL DECK

A. REFER TO ROOF PLAN FOR METAL DECK SIZE AND ATTACHMENT INFORMATION.

B. SEE SECTION 05310 IN THE PROJECT MANUAL AND SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO:

1. GENERAL REQUIREMENTS
   a. SUBMITTALS
   b. QUALITY ASSURANCE – REFERENCE SPECIFICATION REQUIREMENTS
2. PRODUCT / MATERIAL REQUIREMENTS
3. EXECUTION OF WORK REQUIREMENTS
   a. INSTALLATION
   b. ACCESSORIES
   c. GALVANIZING REPAIR
4. QUALITY ASSURANCE REQUIREMENTS (INSPECTIONS & TESTING)

05400 COLD-FORMED METAL FRAMING

A. SEE SECTION 05400 IN THE PROJECT MANUAL AND SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO:

1. GENERAL REQUIREMENTS
   a. STRUCTURAL PERFORMANCE
   b. SUBMITTALS
   c. QUALITY ASSURANCE – REFERENCE SPECIFICATION REQUIREMENTS
2. PRODUCT / MATERIAL REQUIREMENTS
   a. STEEL REQUIREMENTS
   b. WALL FRAMING
   c. JOIST FRAMING
   d. FABRICATION
   e. FASTENERS AND ACCESSORIES
   f. REPAIR PAINTING
3. EXECUTION OF WORK REQUIREMENTS
   a. INSTALLATION
      1. GENERAL
      2. TOLERANCES
      3. LOAD-BEARING WALL
      4. CURTAIN-WALL
      5. JOIST INSTALLATION
   b. REPAIRS

B. ALL FRAMING SHOWN IN THE PLANS ARE MINIMUM SIZES. DIMENSIONS CANNOT BE INCREASED WITHOUT WRITTEN APPROVAL FROM ENGINEER OF RECORD.

C. PRE-ENGINEERED ROOF TRUSSES SHALL BE DESIGNED PER THE LOADING SHOWN IN DRAWINGS.

D. PRE-ENGINEERED ROOF TRUSSES SHALL BE DELIVERED, HANDLED, BRACED, AND INSTALLED PER AISI S214-07.

E. ALL CLIPS AND FASTENING HARDWARE SHALL BE TESTED AND RATED FOR THE LOADS RESISTED.

F. LIGHT GAUGE FRAMING SYSTEMS INCLUDING TRUSS SYSTEMS SHALL INCLUDE ALL NECESSARY PARTS AND ACCESSORIES, TEMPORARY AND PERMANENT, AS REQUIRED TO FORM A COMPLETE SYSTEM (ANCHORAGE INCLUDED)

06100 ROUGH CARPENTRY / SHEATHING

A. SEE SECTION 06100 IN THE PROJECT MANUAL AND SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO:

1. PRODUCT / MATERIAL REQUIREMENTS
   a. LUMBER, GENERAL
   b. WOOD-PRESERVATIVE-TREATED MATERIALS
   c. DIMENSIONAL LUMBER: APPROVED GRADES AND SPECIES
   d. WOOD-BASED STRUCTURAL USE PANELS
   e. FASTENERS AND ANCHORS
2. EXECUTION OF WORK REQUIREMENTS
   a. INSTALLATION
      1. TOLERANCES
      2. FRAMING CONNECTION REQUIREMENTS
         a. "RECOMMENDED NAILING SCHEDULE" AFPA's NDS FOR WOOD CONSTRUCTION
         b. INTERNATIONAL BUILDING CODE TABLE 2304.9.1
      3. FASTENER COATING REQUIREMENTS
      4. REQUIRED PRACTICE STANDARDS REFERENCES
         a. AMERICAN PLYWOOD ASSOCIATION E30
         b. AMERICAN PLYWOOD ASSOCIATION T625 WOOD STRUCTURAL PANELS OVER METAL FRAMING

B. WALL SHEATHING: APA RATED SHEATHING EXTERIOR (C-C GRADE)

1. NOMINAL THICKNESS: 5/8 INCH
2. SPAN RATING: 24/16
3. BLOCKING: 2" WIDE 43 MIL STRAPPING
4. SHEATHING: SHOULD BE PLACED PERPENDICULAR TO SUPPORTS

C. ROOF SHEATHING: APA RATED SHEATHING, EXTERIOR (C-C GRADE)

1. NOMINAL THICKNESS: 5/8 INCH
2. SPAN RATING: 32/16
3. SHEATHING: SHOULD BE PLACED PERPENDICULAR TO SUPPORTS

D. PARAPET SHEATHING: APA RATED SHEATHING, EXTERIOR (C-C GRADE)

1. NOMINAL THICKNESS: 5/8 INCH
2. SPAN RATING: 24/16
3. SHEATHING: SHOULD BE PLACED PERPENDICULAR TO SUPPORTS

E. FASTENERS

1. GENERAL: PROVIDE FASTENERS OF SIZE AND TYPE INDICATED THAT COMPLY WITH REQUIREMENTS SPECIFIED IN THIS ARTICLE FOR MATERIAL AND MANUFACTURE.
2. SCREWS FOR FASTENING WOOD STRUCTURAL PANELS TO COLD-FORMED METAL FRAMING: ASTM C 954, EXCEPT WITH WAFER HEADS AND REAMER WINGS, LENGTH AS RECOMMENDED BY SCREW MANUFACTURER FOR MATERIAL BEING FASTENED.

F. COORDINATE WALL, PARAPET, AND ROOF SHEATHING INSTALLATION WITH FLASHING AND JOINT-SEALANT INSTALLATION SO THESE MATERIALS ARE INSTALLED IN SEQUENCE AND MANNER THAT PREVENT EXTERIOR MOISTURE FROM PASSING THROUGH COMPLETED ASSEMBLY.

G. COORDINATE SHEATHING INSTALLATION WITH INSTALLATION OF MATERIALS INSTALLED OVER SHEATHING SO SHEATHING IS NOT EXPOSED TO PRECIPITATION OR LEFT EXPOSED AT END OF THE WORKDAY WHEN RAIN IS FORECAST.

H. ALL PANELS (GENERAL):

1. IDENTIFICATION REQUIREMENTS: EACH PANEL SHALL BE IDENTIFIED WITH THE APPROPRIATE TRADEMARK OF APA.
2. PANELS HAVING ANY EDGE OR SURFACE EXPOSED LONG TERM TO WEATHER SHALL BE CLASSIFIED EXTERIOR.
3. PANEL PERFORMANCE CATEGORY, GRADE, AND GROUP NUMBER OR SPAN RATING SHALL BE AT LEAST EQUAL TO THAT SHOWN ON THE DRAWINGS. APPLICATION SHALL BE IN ACCORDANCE WITH APA.
4. 1/8" SPACING REQUIRED AT ALL PANEL ENDS AND EDGES.

J. ROOF SHEATHING.

1. INSTALL WITH LONG DIMENSION OR STRENGTH AXIS OF THE PANEL ACROSS SUPPORTS
2. FASTEN TO LIGHT GAGE METAL TRUSSES USING #10 BUGLE HEAD SCREWS SPACED AT 6" ON CENTER ALONG UNSUPPORTED EDGE S AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS

K. WALL / PARAPET SHEATHING.

1. FASTEN TO LIGHT GAGE METAL STUDS USING #10 BUGLE HEAD SCREWS SPACED AT 6 INCHES ON CENTER ALONG UNSUPPORTED EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS.
2. APPLY WEATHER-RESISTANT BARRIER OVER PANEL WALL SHEATHING.

09960 COATINGS FOR STEEL

A. REFER TO SPECIFICATIONS FOR GENERAL REQUIREMENTS, PRODUCTS, AND EXECUTION OF WORK

B. ASPHALTIC BASED CORROSION RESISTANCE COATING SHALL BE MADE WITH AN ASPHALT-BASE EMULSION COATING SYSTEM PER ASTM D 1187.

C. APPLY A MINIMUM 1/16" THICK COATING IN TWO APPLICATIONS.

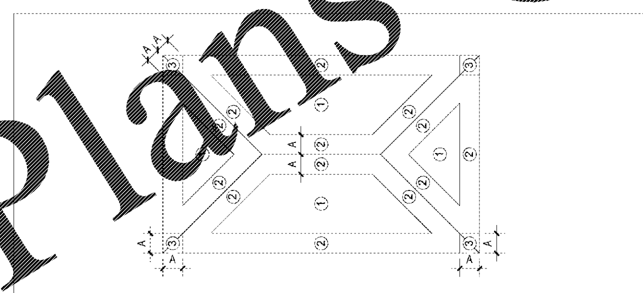
D. COATING TO BE APPLIED ON ALL SIDES OF MEMBERS – TO INCLUDE STEEL TO BE ADJACENT TO CAST-IN-PLACE CONCRETE.

E. COAT STRUCTURAL, ANCHOR BOLTS, WELDS, AND ALL COMPONENTS IN THE AFFECTED AND DEFINED AREA.

F. ALL STEEL AND STEEL COMPONENTS (I.E. BASE PLATES AND ANCHOR BOLTS) EXPOSED TO SOIL SHALL BE COATED FROM THE FOUNDATION (LOWEST LEVEL) UP TO 6-INCHES ABOVE THE SLAB OR FINAL GRADE – WHICHEVER IS GREATER.

LIST OF STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLTS
ADDL	ADDITIONAL
ALT	ALTERNATE
ANCH	ANCHOR
APPROX	APPROXIMATE
ARCH	ARCHITECT / ARCHITECTURAL
BB	BOND BEAM
BLDG	BUILDING
BM	BEAM
BO	BOTTOM OF
BOT / BTM	BOTTOM
BP	BASE PLATE / BEARING PLATE
BRG	BEARING
BTW	BETWEEN
CANT	CANTILEVER
CB	CONCRETE BEAM
CC	CONCRETE COLUMN
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR / CLEARANCE
COL	COLUMN
CONC	CONCRETE
CONNX	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRUGATED
CMU	CONCRETE MASONRY UNIT
DET	DETAIL
DIA / DIAM	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DN	DOWN
DR	DRAIN
DWG	DRAWING
DWL	DOWEL
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL / ELEV	ELEVATION
ELECT	ELECTRICAL
EMB	EMBEDMENT
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	EACH SIDE
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
EW	EACH WAY
FAB	FABRICATE
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FIN	FINISH(ED)
FL / FLR	FLOOR
FTG	FOOTING
GA	GAGE / GAUGE
GALV / GV	GALVANIZED
GC	GENERAL CONTRACTOR
HAS	HEADED ANCHOR STUD
HB	HIGH BEAM (MASONRY)
HORIZ	HORIZONTAL
HSB	HIGH STRENGTH BOLTS
HSS	HOLLOW STEEL SECTION
HT	HEIGHT
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS
KO	KNOCK OUT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE
LB	LOW BEAM (MASONRY)
LBS	POUNDS
LD	DEVELOPMENT LENGTH
LDH	LONG DIMENSION HORIZONTAL
LDV	LONG DIMENSION VERTICAL
LGTH	LENGTH
LLBB	LONG LEG BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MATL	MATERIAL
MAX	MAXIMUM
MB	MASONRY BEAM
MC	MOMENT CONNECTION
MCO	MASONRY COLUMN
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE / MANUFACTURERS
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
PB	PARAPET BEAM (MASONRY)
PCC	PRECAST CONCRETE
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLY	PLYWOOD
PRE-ENG	PRE-ENGINEERED
PEMB	PRE-ENGINEERED METAL BUILDING
PREFAB	PRE-FABRICATED
PRELIM	PRELIMINARY
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PT	POST TENSION(ING) (ED)
PW	PANEL WIDTH
RAD	RADIUS
RB	ROOF BEAM (MASONRY)
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING
REQ'D	REQUIRED
REV	REVISION
RTU	ROOF TOP UNIT
RW	RETAINING WALL
SECT	SECTION
SCH / SCHED	SCHEDULE
SIM	SIMILAR
SP / SPC	SPACE(S)
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
ST/STL	STEEL
STRUC	STRUCTURAL
SYM	SYMMETRICAL
T & B	TOP AND BOTTOM
T & G	TONGUE AND GROOVE
TE	THICKENED EDGE
THK	THICK
THRD	THREAD(ED)
TB	TIE BEAM
TOC	TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TYP	TYPICAL
TS	TUBE STEEL
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WIDE FLANGED
WB	WALL BEAM (TILT)
WC	WALL COLUMN (TILT)
W/	WITH
W/O	WITHOUT
WD	WOOD
WGT	WEIGHT
WH	WEEPHOLE
WP	WORKING POINT
WT	STEEL TEE SECTION
WWF	WELDED WIRE FABRIC
@	AT
&	AND

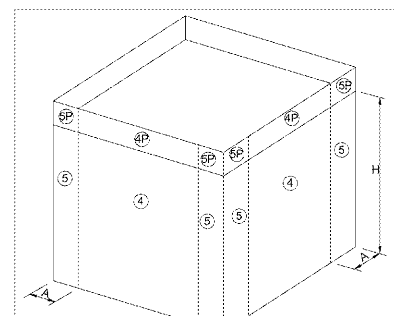


ULTIMATE (LRFD) WIND PRESSURES (ASCE 7-10) FOR COMPONENTS AND CLADDING

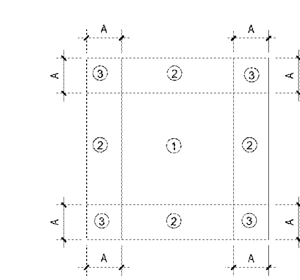
EFFECTIVE AREA (SQFT)	ZONE 1		ZONE 2		ZONE 3		ZONE 4		ZONE 5	
	POS. (PSF)	NEG. (PSF)	POS. (PSF)	NEG. (PSF)	POS. (PSF)	NEG. (PSF)	POS. (PSF)	NEG. (PSF)	POS. (PSF)	NEG. (PSF)
10	21.0	-33..3	21.0	-57.9	21.0	-85.7	36.4	-39.4	36.4	-48.7
20	19.1	-32.4	19.1	-53.3	19.1	-80.1	34.7	-37.8	34.7	-45.4
50	16.6	-31.1	16.6	-47.2	16.6	-72.7	32.6	-35.6	32.6	-41.1
A ≥ 100	16.0	-30.2	16.0	-42.5	16.0	-67.2	30.9	-34.0	30.9	-37.8

NOTES:

1. ROOF OVERHANG PRESSURES:
   a. ZONE 2 OH: +16 PSF AND -32.5 PSF
   b. ZONE 3 OH: +16 PSF AND -55.0 PSF
2. "A" DENOTES EDGE STRIP = 3' - 0".
3. POSITIVE & NEGATIVE SIGNS SIGNIFY PRESSURES ACTING TOWARDS AND AWAY FROM THE BUILDING SURFACES, RESPECTIVELY (FULL HEIGHT, U.N.O.).
4. MULTIPLY THE WIND PRESSURES BY A FACTOR OF 0.6 TO OBTAIN ALLOWABLE (ASD) WIND PRESSURES.



WALL PRESSURES



ROOF PRESSURES

ULTIMATE (LRFD) WIND PRESSURES FOR COMPONENTS & CLADDING (ASCE 7-10)

EFFECTIVE AREA (SQ FT)	ZONE 1		ZONE 2		ZONE 3		ZONE 4		ZONE 4 PARAPET		ZONE 5		ZONE 5 PARAPET	
	PRESSURE	SUCTION	PRESSURE	SUCTION	PRESSURE	SUCTION	PRESSURE	SUCTION	CASE A	CASE B	PRESSURE	SUCTION	CASE A	CASE B
10	16.0 PSF	-32.5 PSF	29.8 PSF	-54.6 PSF	29.8 PSF	-54.6 PSF	29.8 PSF	-32.3 PSF	84.4 PSF	65.7 PSF	29.8 PSF	-39.7 PSF	84.4 PSF	73.6 PSF
20	16.0 PSF	-31.7 PSF	28.5 PSF	-48.8 PSF	28.5 PSF	-48.8 PSF	28.5 PSF	-30.9 PSF			28.5 PSF	-37.1 PSF		
50	16.0 PSF	-30.6 PSF	26.7 PSF	-41.1 PSF	26.7 PSF	-41.1 PSF	26.7 PSF	-29.2 PSF			26.7 PSF	-33.6 PSF		
A ≥ 100	16.0 PSF	-29.8 PSF	25.4 PSF	-35.3 PSF	25.4 PSF	-35.3 PSF	25.4 PSF	-27.9 PSF			25.4 PSF	-30.9 PSF		

NOTES:

1. PARAPET WIND PRESSURES:
   CASE A = PRESSURES TOWARD THE BUILDING.
   CASE B = PRESSURES AWAY FROM THE BUILDING.
2. "P" DENOTES PARAPET PRESSURE VALUES.
3. "A" DENOTES EDGE STRIP = 6'-0"
4. POSITIVE & NEGATIVE SIGNS SIGNIFY PRESSURES ACTING TOWARDS AND AWAY FROM THE BUILDING SURFACES, RESPECTIVELY (FULL HEIGHT, UNLESS NOTED).
5. MULTIPLY THE WIND PRESSURES BY A FACTOR OF 0.6 TO OBTAIN ALLOWABLE (ASD) WIND PRESSURES

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STORE #8661-STO
NEWTOWN RD & STONEY POINT ST
NORFOLK, VA

SHEET TITLE: GENERAL NOTES

No.	Description	Date
	PERMIT SET	05/11/2018
	PRE-BID REVIEW SET	01/09/2019
	BID SET	01/29/2019

PROJECT NO. 2170577
DATE 05-11-2018
DRAWN RC
CHECKED JJ

S1