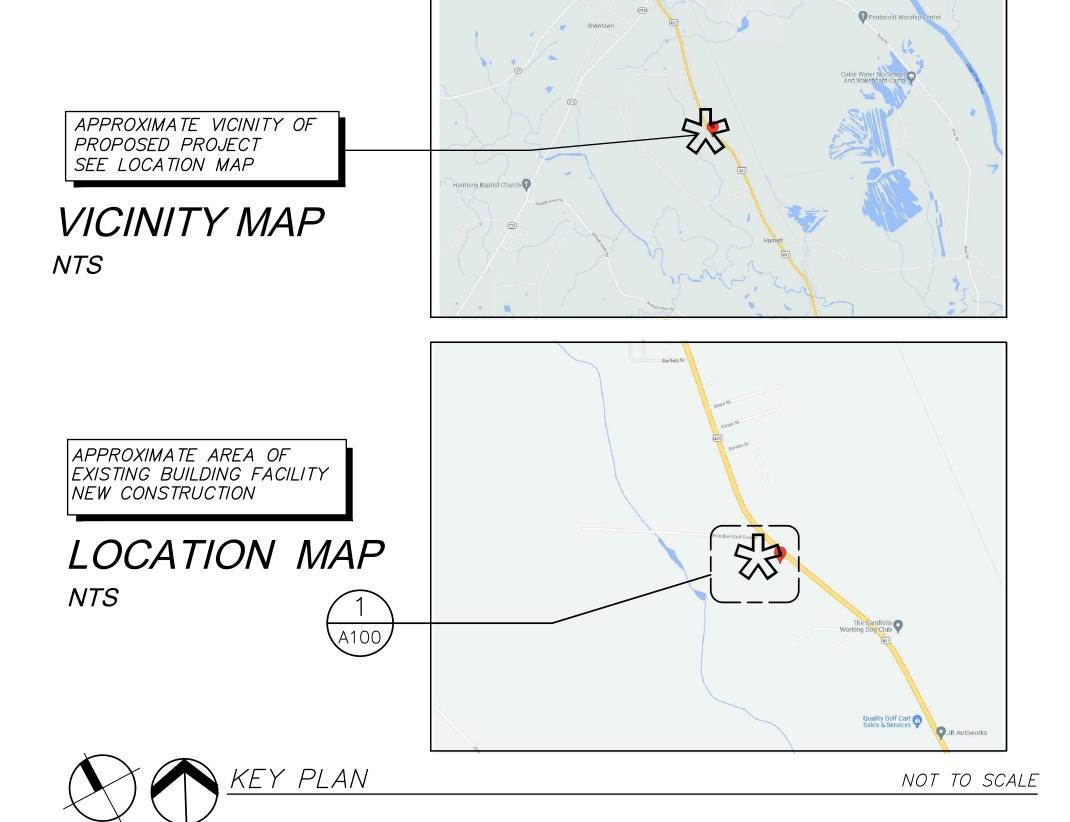
# Proposed "Concrete Batch Plant" Dispatch Office Building for

# Crete Solutions LLC

2544 US 401 N Lillington, North Carolina

CONTRACT DOCUMENTS: SUBMITTAL12/06/21 (Issued for Code Enforcement Permit Review Approval)
Occupancy Group Use: "Business (B)"





SHEET TITLES

G100 COVER SHEET

G100 BUILDING CODE & LIFE SAFETY PLANS

N100 ACCESSIBILITY DETAILS

N101 GENERAL CONSTRUCTION NOTES

S1.0 FOUNDATION AND SLAB PLAN S2.0 ROOF FRAMING PLAN

AS100 FOUNDATION PLAN
A100 DIMENSIONAL FLOOR PLAN
A101 REFLECTED CEILING PLAN
A200 EXTERIOR BUILDING ELEVATIONS

BUILDING CROSS SECTION

A300 TYPICAL WALL SECTIONS

ENLARGED PLANS, ELEVATIONS

A500 DOOR/WINDOW SCHEDULES, ELEVATIONS & DETAILS

& DETAILS

00 PLUMBING SCHEDULES, NOTES & DETAILS 01 FLOOR PLAN — PLUMBING — WASTE 02 FLOOR PLAN — PLUMBING — WATER

MECHANICAL SCHEDULES NOTES & DETAILS FLOOR PLAN — MECHANICAL

100 ELECTRICAL SCHEDULES, NOTES & DETAILS 101 FLOOR PLAN — ELECTRICAL — POWER 102 FLOOR PLAN — ELECTRICAL — LIGTHING 103 ATTIC PLAN — ELECTRICAL



ARCHITECTURAL FIRM OF RECORD:

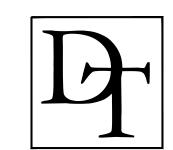


ENGINEERING FIRM (MECHANICAL, ELECTRICAL, PLUMBING) OF RECORD:



TOPSAIL ENGINEERING INC
(NC License: C-2546)
Post Office Box 367
Hampstead, NC 28443
(Tel) 910.270.3747
mail: office@topsailengineering.con

ENGINEERING FIRM STRUCTURAL OF RECORD:



# DAVID TERKELTOUB AND ASSOCIATES CONSULTING ENGINEERS

902 PINE GROVE DRIVE
WILMINGTON, NC 28409
PHONE: (910) 794-3070 FAX: (910) 794-3090

RETE SOLUTIONS, LLC; CONCRETE BATCH PLAN

BUILDING ELEMENT	FIRE SEPARATION DISTANCE	REQ'D	RATING PROVIDED (W/	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED
	(FEET)		REDUCTION)				JOINTS
Structural frame, including columns, girders, trusses		0	0				
Bearing Walls							
Exterior		0	0				
North							
East							
West							
South							
Interior		0	0				
Non-bearing walls and partitions Exterior	X ≥ 30'						
North							
East							
West							
South							
Interior Walls and partitions		0	0				
Floor construction including supporting beams and joists		0	0				
Floor Ceiling Assembly		N/A					
Columns supporting Floors		N/A					
Roof construction including supporting beams and joists		0	0				
Roof Ceiling Assembly		0					
Columns supporting Roof		0					
Shaft Enclosures - Exit		N/A					
Shaft Enclosures - Elevator		N/A					
Shaft Enclosures - Other		N/A					
Corridor Separation		N/A					
Occupancy/Fire Barrier Sepa	ration	N/A					
Party/Fire Wall Separation		N/A					
Smoke Barrier Separation		N/A					
Smoke Partition		N/A					
Tenant/Dwelling Unit Sleeping Unit Separation		N/A					
Incidental Use Separation		N/A					
*Indicate section number per	mittina redu	ction	1	1	!		
PERCENTAGE OF WALL OPE					1		
FIRE SEPARATION DISTANCE	DECDE	OF OPE	NUNIOO LALI	OWABLE AR	EAL ACTUAL	L SHOWN ON PLA	NIC

SOUTH WALL; >30,	Unprotected, Non-Sprinklered	No Limit	N/A	
WEST WALL; >30,	Unprotected, Non-Sprinklered	No Limit	N/A	
VALL LEGENDS: This se	ction required for all projects			
	ction required for all projects present and indicated by a wall	legend on		
		legend on		
Check if the following are p	oresent and indicated by a wall	legend on		
Check if the following are p	oresent and indicated by a wall	ŭ		

Unprotected, Non-Sprinklered No Limit

ı	Panic Hardware: ⊠ No
_	LIFE SAFETY SYSTEM REQUIREMENTS: Life Safety Plan Sheet #:
	N / A ☐ Fire and/or smoke rated wall locations (Chapter 7) N / A ☐ Assumed and real property line locations (if not on the site plan)
	N/A☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)  ☐ Occupanty Use for each area as it relates to occupant load calculation (Table 1004.1.2) ☐ Occupant load for each area
	<ul> <li>∑ Exit access travel distances (1017)</li> <li>∑ Common path of travel distances (Tables 1006.2.1 &amp; 1006.3.2(1))</li> <li>N/A □ Dead end lengths (1020.4)</li> </ul>
	<ul> <li>☒ Clear exit widths for each exit door</li> <li>☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress</li> </ul>

⊠No □Yes □Partial

□ No 🛛 Yes

s width (1005.3) X Actual occupant load for each exit door N/A A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for N/A Location of doors with panic hardware (1010.1.10)

Location of doors with delayed egress locks and the amount of delay (1010.1.9.7) N/A Location of doors with electromagnetic egress locks (1010.1.9.9) N/A ☐ Location of doors equipped with hold-open devices N/A Location of emergency escape windows (1030)

N/A ☐ The square footage of each fire area The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) N/A Note any code exceptions or table notes that may have been utilized regarding the items above

ACTUAL
DISTANCE SHOWN ON PLANS
27.5
7 27.3
_

USE GROUP OR SPACE	(a)	(b)	(c)	(0	d)		EXIT W	/IDTH (in) <sup>2</sup>	3, 4, 5, 6
DESCRIPTION	AREA <sup>1</sup> SQ. FT.	AREA <sup>1</sup> PER OCCUPANT	LOAD	EGRESS PER OCO (100		REQUIRE (SECTION (c x	N 1005.3)	SHO	L WIDTH DWN LANS
		(TABLE 1004.1.2)	(a x b)	STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
1st floor (B)	769	100	8	_	.2	_	1.6"		68"
st floor (S-2)	759	500	2	_	.2	_	1.4"		68"

1 See Table 1004.1.2 to determine whether net or gross area is applicable. See definition "Floor Area, Gross" and "Floor Area, Net" (Section 202)

2 Minimum stairway width (Section 1011.2); min. corridor width (Section 1020.2); min. door width (Section 1010.1.1) 3 Minimum width of exit passageway (Section 1024.2)

4 See Section 1005.6 for converging exits. 5 The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required width (Section 1005 5) 6 Assembly occupancies (Section 1029)

			WATER	CLOSETS	URINALS	LAVAT	ORIES	SHOWERS/	DRINKI	ING FOUNTAINS
Grp Type	Occupa	ancy Load	MALE	FEMALE	1	MALE	FEMALE	TUBS	REGULA	AR ACCESSIBLE
3 & S-2	5 N	/ 5 F	1	1		1	1		N/A	per 2902.6
TOTA	AL PRO\	/IDED	1	1	1	1	1		N/A	per 2902.6
TOTAL										
SPECIAL										
SPECIAL			sdiction,	Departme	ent of Insu	rance, (	OSC, DF	PI, DHHS, IC	C, etc., d	escribe below)

(SEE MECHANICAL DRAWINGS FOR CONTINUATION OF "BUILDING CODE SUMMARY") **ENERGY SUMMARY** The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design. Existing building envelope complies with code:  $\square$  Yes (The remainder of this section is not applicable) Exempt Building: Yes Provide code or statutory reference:

(SEE ELECTRICAL/MECHANICAL DRAWINGS FOR CONTINUATION OF "BUILDING CODE SUMMARY")

(SEE MECHANICAL DRAWINGS FOR CONTINUATION OF "BUILDING CODE SUMMARY")

Climate Zone: ☐ N/A ☐ 3A ☒ 4A ☐ 5A Method of Compliance: ☐ Energy Code — Performance ☐ Energy Code - Prescriptive ☐ ASHRAE 90.1 - Performance ☐ ASHRAE 90.1 - Prescriptive ☐ Other — Performance (If "Other" specify source here)

ELECTRICAL SYSTEM AND EQUIPMENT



ect Information	
y Code:	90.1 (2013) Standard
t Title:	Crete Batch Plant Office Building
on:	Lillington, North Carolina
e Zone:	4a
t Type:	New Construction
al Glazing / Wall Area:	15%
No.	To Be Determined

2544 US 40

EnergyPlus 8.1.0.009 (EPW: USA\_NC\_Raleigh-Durham.Intl.AP.723060\_TMY3.epw)

Site: -01 N	Owner/Agent: Tyler Shaw	Designer/Contractor: Michael Saieed, RA, AIA, LEED-AP
NC 27546	Crete Investments, LLC 2005 Eastwood Road Wilmington, NC 28403 910-762-1691 tms@cretellc.com	Design Elements, RA (Architectural Firm) Wilmington, NC 28401 (910) 509-3131 msaieed@designele.com

uilding Area	Floor Area
-Building area: slab on grade (Office): Nonresidential	1600

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U Factor <sub>(a)</sub>
Roof - Asphalt Shingle, R42 batts attic insulation: Attic Roof with Wood Joists, [Bldg. Use 1 - Building area: slab on grade]: Comment:	1600	0.0	38.0	0.025	0.021
Floor 1: Slab-On-Grade:Unheated, Vertical 1 ft., [Bldg. Use 1 - Building area: slab on grade]: Comment: Slab on grade (c)	160		7.5	0.600	0.520
NORTH North Wall: vnyl siding, 6" stud w/ R-19 fiberglass Insulation Infill: Wood-Framed, 16" o.c., [Bldg. Use 1 - Building area: slab on grade] : Comment: Vinyl siding, AWB membrane, cavity, R-19 fiberglass	400	19.0	0.0	0.067	0.064
Insulated Storefront 451T type B: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID SOLARBAN 60 Cleatr+Clear, SHGC 0.31, VT 0.54, [Bldg. Use 1 - Building area: slab on grade]: Comment: (b)	32			0.500	0.420
Insulated Storefront Trifab 500T type A2: Glass (> 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID-SOLARBAN 60 ———————————————————————————————————	21	<del></del>		0.350	0.770
EAST  East Wall: vinyl siding, 6" stud w/ R-19 fiberglass Insulation Infill: Wood- Framed, 16" o.c., [Bldg. Use 1 - Building area: slab on grade] : Comment: Vinyl siding, AWB membrane, cavity, R-19 fiberglass	400	19.0	0.0	0.067	0.064
Insulated Storefront 451T type B: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID SOLARBAN 60 Cleatr+Clear, SHGC 0.31, VT 0.54, [Bldg. Use 1 - Building area: slab on grade] (b)	16			0.500	0.420
Insulated Storefront 451T type B: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID SOLARBAN 60 Cleatr+Clear, SHGC 0.31, VT 0.54, [Bldg. Use 1 - Building area: slab on grade] (b)	16			0.500	0.420
SOUTH South Wall: vinyl siding, 6" stud w/ R-19 fiberglass Insulation Infill: Wood-Framed, 16" o.c., [Bidg. Use 1 - Building area: slab on grade] : Comment: Vinyl siding, AWB membrane, cavity, R-19 fiberglass	400	19.0	0.0	0.067	0.064
Insulated Storefront 451T type B: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID SOLARBAN 60 Cleatr+Clear, SHGC 0.31, VT 0.54, [Bldg. Use 1 - Building area: slab on grade] (b)	16			0.500	0.420
Insulated Storefront 451T type B: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID SOLARBAN 60 Cleatr+Clear, SHGC 0.31, VT 0.54, [Bldg. Use 1 - Building area: slab on grade]: Comment: (b)	16			0.500	0.420
Insulated Storefront 451T type B: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID SOLARBAN 60 Cleatr+Clear, SHGC 0.31, VT 0.54, [Bldg. Use 1 - Building area: slab on grade] (b)	16			0.500	0.420
Insulated Storefront 451T type B: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID SOLARBAN 60 Cleatr+Clear, SHGC 0.31, VT 0.54, [Bldg. Use 1 - Building area: slab on grade] (b)	16			0.500	0.420
Insulated Storefront Trifab 500T type A2: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID SOLARBAN 60 Cleatr+Clear, SHGC 0.25, VT 0.54, [Bldg. Use 1 - Building area: slab on grade] (b)	21			0.350	0.770
WEST West Wall: vinyl siding, 6" stud w/ R-19 fiberglass Insulation Infill: Wood-Framed, 16" o.c., [Bldg. Use 1 - Building area: slab on grade] : Comment: Vinyl siding, AWB membrane, cavity, R-19 fiberglass	400	19.0	0.0	0.067	0.064
Dissulated Storefront 451T type B: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID SOLARBAN 60 Cleatr+Clear, SHGC 0.31, VT 0.54, [Bldg. Use 1 - Building area: slab on grade] (b)	16			0.500	0.420
Insulated Storefront 451T type B: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID SOLARBAN 60 Cleatr+Clear, SHGC 0.31, VT 0.54, [Bldg. Use 1 - Building area: slab on grade]: Comment: (b)	32			0.500	0.420
Insulated Storefront Trifab 500T type A2: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID SOLARBAN 60 Cleatr+Clear, SHGC 0.25, VT 0.54, [Bldg. Use 1 - Building area: slab on grade] (b)	21			0.350	0.770

(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans specifications, and other calculations submitted with this permit application. The proposed envelope systems have beer designed to meet the 90.1 (2013) Standard requirements in COMcheck Version 4.1.5.1 and to comply with any applicable

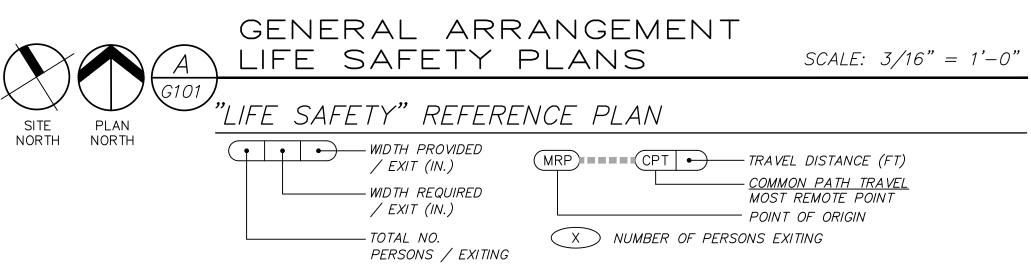
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

elope PASSES: Design 1% better than code

**Envelope Compliance Statement** 

\*\*========== DOOR CAP. ALLOWARI. DOOR CAP. ALLOWABLE: CPT ) <u>170 OCCUPANTS</u> 170 OCCUPANTS EST. CAP (MRP | 37') EMR --------170 OCCUPANTS

40'-0" (OVERALL FINISHED BUILDING LENGTH)



TOTAL NUMBER OF PERSONS EXITING BUILDING (OR) OCCUPIED SPACE (HIGHEST CAPACITY FLOOR LEVEL) (BY DESIGN /PROGRAMMING)

PORTABLE FIRE EXTINGUISHER SURFACE WALL MOUNT UNIT; TOP/LEVER HEIGHT @ 42" AFF (MULTI-PURPOSE CARBON DIOXIDE (MIN.151b)

	(BT BESIGN) TROCKAMININO)
LEGEND	(LIFE SAFETY PLAN

(SIGN-) WALL MOUNTED EXIT IDENTIFICATION SIGNAGE (SEE SIGNAGE DETAIL B/N100) DEDICATED BUILDING ACCESSIBLE MEANS OF EGRESS W/ OVERHEAD EXIT LIGHT AND EMERGENCY BACKUP. AT NON-DIRECT EXITS, PROVIDE DIRECTIONAL ARROW TO EXIT. (OPTIONAL: COMBINATION UNIT W/ EMERGENCY DIRECTIONAL (ACCESSIBLE PATHWAY) ADJUSTABLE (TWO)

HEADS LED LIGHTING (REFERENCE MOST CURRENT NCBC-2018 RECOGNIZED NEC ELECTRICAL CODE AND ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILED INFORMATION) NO EXIT EXTERIOR SERVICE ACCESS DOOR; NOT DECLARED AN ACCESSIBLE (HC/ADAG) MEANS OF EGRESS. (PROVIDE "NO EXIT" PLACARD, MIN. 2"

RED LETTERS; MOUNTED 48" A.F.F. CENTERED TO DOOR PANEL) MEANS OF EGRESS EMERGENCY DIRECTIONAL LIGHTING; BATTERY BACKUP; SURFACE WALL OR CEILING MOUNTED (REFERENCE NEC 2015 ELECTRICAL CODE AND ELECTRICAL DRAWINGS FOR APPROXIMATE REQUIRED QUANTITIES FOR ALLOWABLE DISTANCE LOCATIONS) (OPTIONAL:

ASSUMED PATH OF TRAVEL (LESS THAN 200ft) FROM THE "MOST REMOTE POINT" TO DEDICATED MULTIPLE EXITS: ACCESSIBLE MEANS OF

LOCATION OF KNOX BOX AND FECP (REFERENCE ARCH A101 [KEYNOTE 13]) SHALL BE APPROVED BY AUTHORITY HAVING JURISDICTION AND LOCAL FIRE MARSHALL

THE REQUIREMENTS OF A LOCK BOX SHALL BE AS FOLLOWS: 1. ONLY APPROVED BOXES SHALL BE USED. ORDER FROM <u>WWW.KNOXBOX.COM</u> 2. MINIMUM SIZE SHALL BE NECESSARY TO SECURE ALL THE KEYS FOR THE BUILDING. REFERENCE UNIT SHALL BE THE 3200 SERIES WITH A HINGED LID.

3. LOCK BOXES SHALL BE MOUNTED TO THE WALL WITHIN 5 FEET OF THE DOOR ADJACENT TO THE FACP OR REMOTE ANNUNCIATOR, FIVE (5) FEET ABOVE FINISHED FLOOR (AFF) MEASURED TO THE CENTERLINE.

4. THE RED KNOX BOX STICKER SHALL BE PLÁCED IN THE TOP LEFT CORNER OF THE DOOR THAT KEYS ARE PROVIDED TO OPEN. ITEMS THAT SHALL BE INCLUDED IN THE LOCK BOX, IF APPLICABLE TO BUILDING: MASTER ENTRY KEY FOR BUILDING OR BUSINESS

2. EQUIPMENT ROOM KEY 3. ANY OTHER KEY(S) THAT MAY BE HELPFUL IN FIRE DEPARTMENT OPERATIONS

# GENERAL KEYNOTES

CLASS TYPE ABC)

COMBINATION UNIT W/ EXIT SIGNAGE)

BUILDING PREMISES IDENTIFICATION

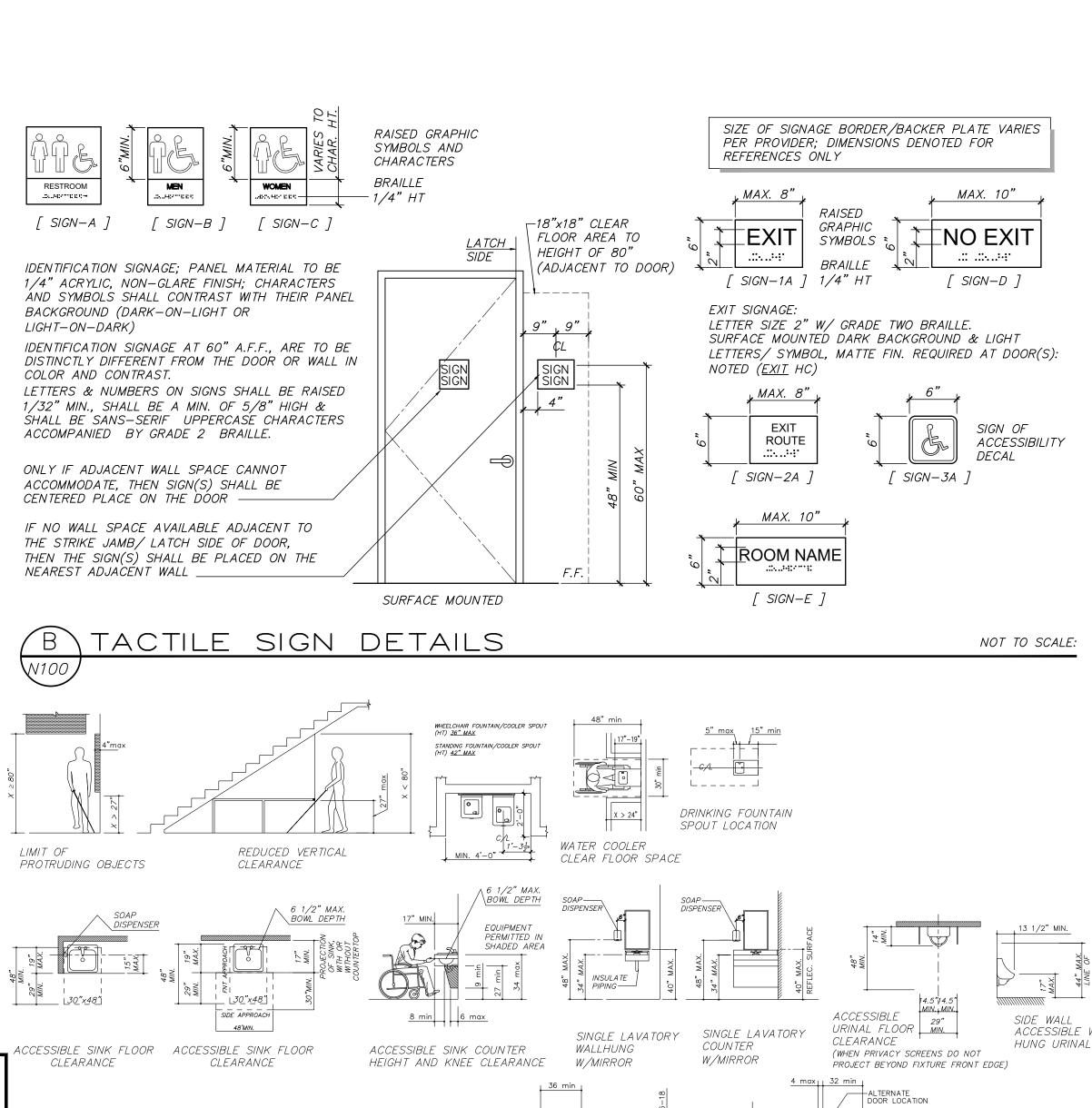
PROVIDE AN APPROVAL (ASSIGNED BY LOCAL AUTHORITY HAVING JURISDICTION) STREET ADDRESS NUMBER; WALL MOUNTED TO EXTERIOR BUILDING FACADE AND POSITION TO BE PLAINLY LEGIBLE AND VISIBLE FORM THE STREET (OR) ROAD FRONTING THE PROPERTY LINE (PUBLIC ACCESS WAY) BUILDING ADDRESS NUMBERS SHALL BE CONTRASTING WITH THE FINISHED BUILDING FACADE (BACKGROUND SIDING). BUILDING ADDRESS CHARACTERS SHALL BE "ARABIC (OR) ALPHABETICAL LETTERS" AT (MIN) 6" HEIGHT WITH A (MIN) STROKE WIDTH 3/4"; SECURE ADDRESS CHARACTERS WITH APPROPRIATE NON-CORROSIVE FASTENERS.

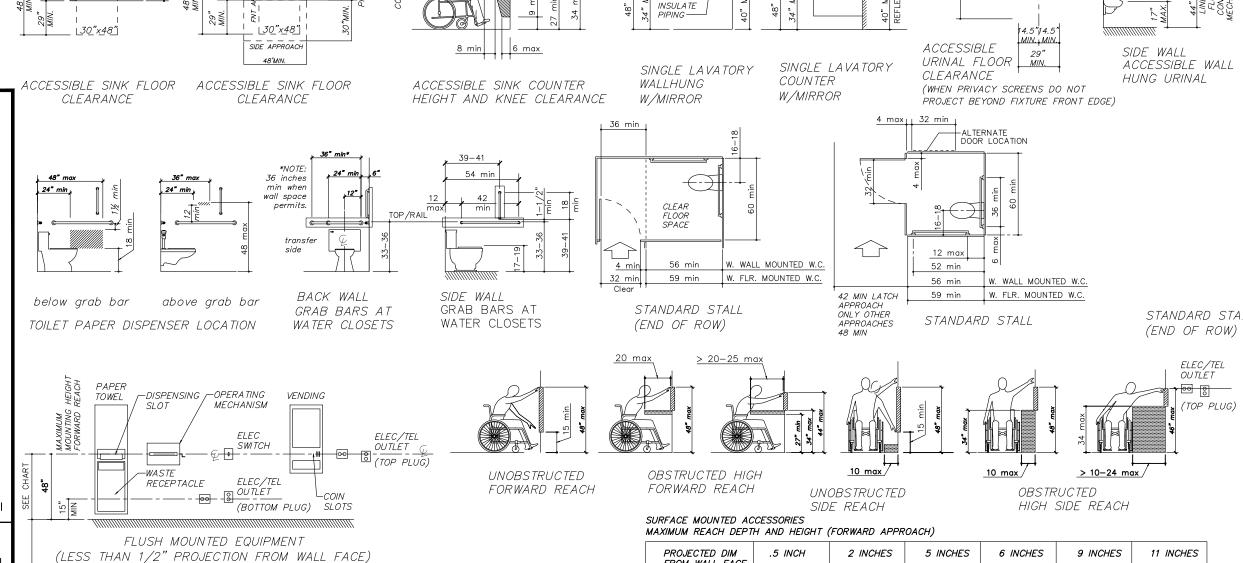
WHERE PROPOSED STRUCTURE ACCESS IS BY MEANS OF A PRIVATE ROAD AND THE BUILDING ADDRESS NUMBER CANNOT BE VIEWED FROM PUBLIC ACCESS WAY, A MONUMENT, POLE OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE. (REFERENCE ICC/IBC/NCFC-2018 SECTION 505)

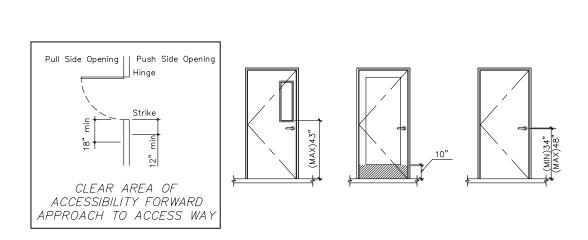


12/01/21 CRETE/L MSAIEEL checked by MSAIEEL

rawing no.







---SURFACE MOUNTED EQUIPMENT

(GREATER THAN 1/2" PROJECTION FROM WALL FACE)

DENOTED REFERENCE SKETCHES INDICATES AREA REQUIREMENTS FOR NEEDED SOLID BLOCKING (OR) SHEET METAL CROSS FRAMING FOR WALL MOUNTED ACCESSORY ITEMS ACCESSIBLE FOR PERSONS WITH DISABILITIES. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE STABLE BLOCKING TO RESIST 250 POUNDS VERTICALLY AND LATERALLY.

42 INCH

40 INCH 36 INCH 34 INCH

48 INCH

MOUNTING HEIGHT

46 INCH

# TYPICAL REFERENCES for (ANSI/ADAAG (HC) ACCESSIBILITY CLEARANCES NOT TO SCALE

GENERAL NOTES (SEE ADDITIONAL REFERENCES FOR REQUIRED "IN-WALL BLOCKING)

TYPICAL BATHROOMS (PRIMARY AND SECONDARY USES) ARE DESIGNED IN REFERENCE TO ICC-IBC/NCBC 2012 CHAPTER 11 & ICC/ANSI A117.1 FOR AMERICANS WITH DISABILITIES. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO LÓCATE AND PRE-FRAME WITH BLOCKING FOR SUPPORTING WALL MOUNTED HARDWARE ACCESSORIES NEEDED FOR PERSONS WITH DISABILITIES.

ALL GRAB BARS ACCESSORIES, AND THEIR FASTENERS SHALL BE CAPABLE OF SUPPORTING A 250 POUND LOAD APPLIED IN ANY DIRECTION, ANYWHERE ALONG ITS LENGTH.

PROVIDE HORIZONTAL GALV. SHEET METAL STRIPPING (MIN 54mils 16ga) CROSS WIDTH TO WALL STUD FLANGES FOR SECURING INDICATED WALL MOUNT ACCESSORIES; CONTRACTOR TO REFERENCE MILLWORK SHOP DRAWINGS AND TOILET ACCESSORIES LOCATIONS FOR RECOMMENDED MOUNTING HEIGHTS

# FLOOR PLAN LEGEND

(SIGN-) WALL MOUNTED (DOOR MOUNTED IF NOT APPLICABLE) IDENTIFICATION SIGNAGE (SEE SIGNAGE DETAIL SHEET B/N100)

DESIGNATES WALL TYPE CONSTRUCTION; (SEE SHEET 1/N102 FOR TYPICAL WALL TYPES)

FIRE EXTINGUISHER WALL MOUNT UNIT W/ LEVER HT. @ 42" AFF (MULTI-PURPOSE CARBON DIOXIDE (MIN.101b) CLASS TYPE ABC)

FIRE EXTINGUISHER & SEMI-RECESS METAL CABINET; IN-WALL MOUNTED 42" AFF FROM TOP LEVER/HANDLE (MIN.1016) CLASS TYPE ABC); FACE FINISHED CABINET SHALL NOT EXTEND > 4" INTO ANY PATH OF CIRCULATION; PROVIDE RATED CABINET WHERE INSTALLED IN RATED WALL.

INDICATES WINDOW IDENTIFICATION NUMBER; REF. SEE SHEET D/A201 FOR DETAILED INFORMATION FOR WINDOW

INDICATES DOOR IDENTIFICATION NUMBER; SEE ARCH SHT XXX FOR INFORMATION ON NOM. DOOR/FRAME SIZES, DESIGNATION TYPES & HARDWARE (REFERENCE ARCH AXXX FOR DETAILED INFOR'N)

FRAME DIMENSIONS AND NOTES SWC/HM (WIDTH) x (HEIGHT) DESIGNATES SIZES AND DOOR - SOLID WOOD CORE (SCW) AND FRAME - METAL FRAME

(HM) HOLLOW METAL OR METAL KNOCK DOWN FRAME DESIGNATES EXTRUDED (SOLID) ALUMINUM FLOOR FINISH FLUSH TRANSITION THRESHOLD; ADAAG/HC "BARRIER

FREE" ACCESSIBLE CROSS-OVER (MAX. 1/2" THK'N,) EXPANSION CONSTRUCTION JOINT EXTERIOR (NOM. 1/2"); TRAFFIC GRADE BITUMINOUS MATERIAL; PERIMETER CONCRETE

SLAB TO WALL ALUM. EXTRUDED THRESHOLD TRANSITION STRIP; APPROPRIATE FINISH STRIP, JOINT SYSTEM AT FINISHED FLOORING

CHANGES FROM ONE MATERIAL TO ANOTHER; TYPICAL FINISHED CARPET TO TAPERED TO FINISHED CONCRETE SLAB; DISABILITY ACCESSIBLE (ANSI/ADAAG)

CONCRETE FLAT SLAB CONTROL JOINT; PER-FORMED "T-SHAPE" PLASTIC CRACK CONTROL STRIP (OPTIONAL: SAW CUT CONTROL JOINT; SAW CUT TOP SURFACE)

CONSTRUCTION JOINT; SEPARATE FLOOR SLAB POUR W/ FORMED CONT. (SHEAR) KEYWAY AT ABUTTING PERIMETER SLAB

CONCRETE SLAB CONTROL JOINT; TOOLED JOINT

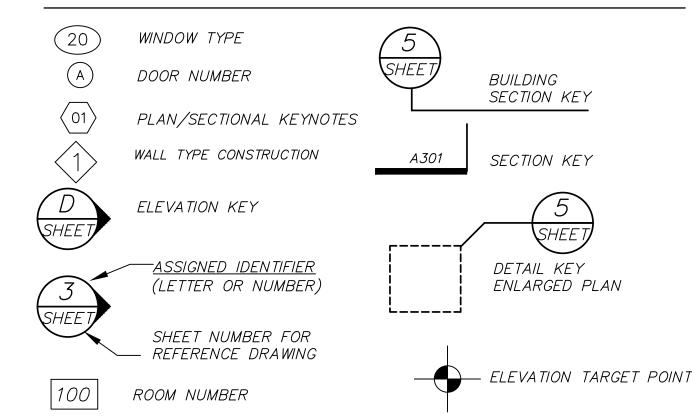
ARCHITECTURAL VERTICAL CONTROL; SURFACE FINISHED ELEVATION POINT

FLOOR DRAIN, APPROXIMATE LOCATION CAST—IN—SLAB RECESS AND SLOPE FOR DRAINAGE (MIN 16" SQ. FLOOR SLAB TAPERED TO DROPPED INLET WASTE DRAIN) REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION

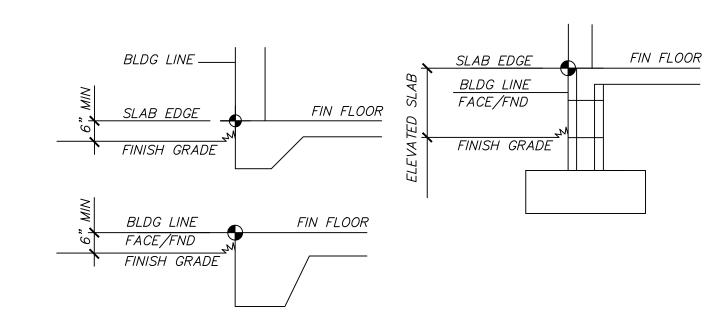
———— DESIGNATES PROPOSED (NEW WORK) WOOD STUD WALL FRAMING LOCATIONS (REFERENCE A/XXX FOR TYPICAL WALL TYPE CONSTRUCTION ASSEMBLY)

DESIGNATED AS HANDICAPPED ACCESSIBILITY "ARCHITECTURAL BARRIER FREE" (CLEAR FLOOR AREA: 60" DIAMETER TURNING AND 60"x60" SQUARE SPACE DENOTED ADA/ANSI) (OR) 30"x48" FORWARD AND SIDE APPROACHES)

# SYMBOL KEY



# BUILDING LINE DEFINITION



# VERTICAL CONTROL EQUIVALENTS:

FF - ARCHITECTURAL (DENOTED FOR SIMPLISTIC DESIGNS) FINISHED FIRST FLOOR ELEVATION (EL) = 0'-00" (0.00' A.F.F.))

FG - ARCHITECTURAL FINISHED GRADE ELEVATION (EL) = (-)3.000' A.F.F. (EST. 5'-0" FROM DESIGNATED BUILDING LINE)

EL. FF - CIVIL SITE PLAN = FINISHED SLAB ELEVATION (MHSL)

FG — FINISH GRADE (BUILDING GRADE PERIMETER) = EL. (T.B.D.') MSL (EST. 12'-0" FROM DESIGNATED BUILDING LINE) (SEE CIVIL SITE DWG'S FOR ACTUAL FINISH GRADE (DECIMAL (FT) DESIGNATION)

CONVERSION CHART

US STANDARD STEEL GAUGE **EQUIVATENTS IN NOMINAL DIMENSIONS** 

MINIMUM DELIVERED THICKNESS (mils)	REFERENCE GAUGE STEEL SHEET (ga)	REFERENCE THICKNES
18	25	0.018"~0.021"
27	22	0.027"~0.031"
33	20	0.035"~0.040'
43	18	0.042"~0.045
54	16	0.050"~0.055"
68	14	0.064"~0.071"
97	12	0.080"~0.102"

# CENIEDAL ADDDENIATIONIC

ADA AMERICAN/DISABILITY ACT ADAAG ADA ACCESSIBLE GUIDELINES	EXHT EXHAUST FAN* EXP EXPANSION	O/C ON CENTER OD OUTSIDE DIAMETER
ADA AMERICAN/DISABILITY ACT ADAAG ADA ACCESSIBLE GUIDELINES AFF ABOVE FINISHED FLOOR* AFG ABOVE FINISHED GRADE* AGGR AGGREGATE AHR ANCHOR	EJ EXPANSION JOINT EXST EXISTING FXT FXTFRIOR	OPP OPPOSITE OVHD OVERHEAD
AGGR AGGREGATE AHR ANCHOR AHU AIR HANDLING UNIT* ALUM ALUMINUM ALT ALTERNATE* ANOD ANODIZED ASSY ASSEMBLY ATTACH ATTACHMENT AVG AVERAGE AHJ AUTHORITY HAVING JURISDICTION BRD BOARD BITUM BITUMINOUS BL BUILDING LINE BLDG BUILDING BLK BLOCK BM BEAM BOT BOTTOM BRG BEARING  C/C CENTER TO CENTER* CABT CABINET CPT CARPET CAV CAVITY CD CORNER GUARD* CEMT CEMANIC CHAN CHANNEL CHER CHAMFER* CJ CONSTRUCTION JOINT CL CETTOR	EACH FIRE ALARM CONTROL PANEL*	PEMB PRE-ENGINEERED METAL (MFR) BUILDING
ALUM ALUMINUM	FD FLOOR DRAIN	PLYWD PLYWOOD
ALT ALTERNATE*	FDN FOUNDATION	PNL PANEL
ANOD ANODIZED	FEC FIRE EXTINGUISHER CABINET*	PR PAIR
ASSY ASSEMBLY	FRP FIBERGLASS*	PREFAB PREFABRICATED
ATTACH ATTACHMENT	FIN FINISH FLOOR*	PREFIN PREFINISHEU*
AVG AVERAGE AUT ATTHORITY HAVING HIRISDICTION	FIN GR FINISH GRADE*	PSE POLINOS PER SOLIARE FOOT
AND AUTHORITT HAVING JURISDICTION	FLR FLOOR(ING)*	PSI POUNDS PER SOLIARE INCH
BRD BOARD	FIG FOOTING	PT PRESSURE TREATED
BITUM BITUMINOUS		PTD PAINTED
BL BUILDING LINE	GA GAGE	
BLDG BUILDING	GALV GALVANIZED	REF REFERENCE
BLK BLOCK	GND GROUND	REINF REINFORCE(D)(ING)(MENT)
BM BEAM	GYP BD GYPSUM BOARD*	REQ REQUIRED
BOT BOTTOM		RO ROUGH OPENING
BRG BEARING	H PLAM HIGH PRESSURE LAMINATE*	COLLED COLLEDING
C/C CENTER TO CENTER*	HOWE HARDWARE*	SCHED SCHEDULE
CART CARINET	HGT HEIGHT	SHI SHEE!(ING)*
CPT CARPET	HORIZ HORIZONTAI	SIM SIMILAR SDOL SDECIAL
CAV CAVITY	HPT HIGH POINT	SPEC SPECIFICATION
CD CORNER GUARD*	HVAC HEATING,	SE (Saft) SOLIARE FOOT
CEMT CEMENT	VENTILATION, AIR CONDITIONING*	SS STAINLESS STEEL
CER CERAMIC	HWH HOT WATER HEATER	STC SOUND TRANSMISSION CLASS*
CHAN CHANNEL		STD STANDARD
CHFR CHAMFER*	INSUL INSULATION	STL STEEL
CJ CONSTRUCTION JOINT	INTR INTERIOR	STOR STORAGE
CL CENTER LINE	ICT IOICT*	STRUCT STRUCTURAL*
CL CENTER LINE CLG CEILING CJ CONTROL JOINT	JNT JOINT	TAR TOR 4412 ROTTOLA
CIR CIFAR	OIVI GOIIVI	TEC TONOUE AND ODOOVE
CMU CONCRETE MASONRY UNIT*	LAM LAMINATION	TAG TONGUE AND GROUVE
CO CASED OPENING*	LAV LAVATORY	THE THICKNESS*
COL COLUMN	LONG LONGITUDINAL	THRU THROUGH
CONC CONCRETE	LPT LOW POINT*	TEMP TEMPERED GLASS*
CONN CONNECTION	LT WT LIGHTWEIGHT*	TOL TOTAL
CONST CONSTRUCTION	LTG PNL LIGHTING PANEL*	TV TELEVISION
CONT CONTINUOUS (ACTION)	LVL LAMINATED VENEER LUMBER	TYP TYPICAL
	114CO 114CONDV*	TELE TELEPHONE CABINET*
DBL DOUBLE	MASU MASUNKIT	TYP TYPICAL
DEMO DEMOLITION*	MAX MAXIMIM	STOR STORAGE STRUCT STRUCTURAL*  T&B TOP AND BOTTOM T&G TONGUE AND GROOVE T/ TOP OF (CONSTRUCTED ELEMENT) THK THICKNESS* THRU THROUGH TEMP TEMPERED GLASS* TOL TOTAL TV TELEVISION TYP TYPICAL TELE TELEPHONE CABINET* TYP TYPICAL TBD TO BE DETERMINE  UNO UNLESS OTHERWISE NOTED*  VCT VINYL COMPOSITION TILE* VERT VERTICAL
DE I DETAIL	MECH MECHANICAL	100 100 0TUEDUES 110TES 1
DE DESINATING FOUNTAIN	MET METAL	UNU UNLESS OTHERWISE NOTED*
DIST DISTANCE	MFG MANUFACTURING	VOT VINVI COMPOSITION THE*
DN DOWN	MIN MINIMUM	VCI VINIL COMPOSITION TILE*
DS DOWNSPOUT	MISC MISCELLANEOUS	VEILT VEILTICAL

MISC MISCELLANEOUS MO MASONRY OPENING

NA NOT APPLICABLE

NOM NOMINAL NTS NOT TO SCALE

NIC NOT IN CONTRACT

MTD MOUNTED

EL ELEVATION

EMER EMERGENCY

EQUIP EQUIPMENT\* EST ESTIMATE

EWC ELECTRICAL WATER COOLER

EWH ELECTRICAL WATER HEATER\*

EW EACH WAY

MR MOISTURE RESISTANT

W/ WITH

W/O WITHOUT

W/W WALL TO WALL\*

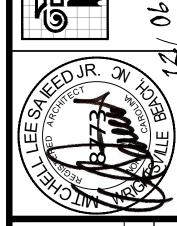
WC WATER CLOSEST

XFMR TRANSFORMER

WCO WALL CLEANOUT\*

WWF WELDED WIRE FABRIC\*





12/01/21 CRETE/L

MSAIEEL checked by MSAIEEL

# GENERAL ACCESSIBILITY REQUIREMENTS

THE BUILDING OWNER AND GENERAL CONTRACTOR SHALL INSURE THAT THIS FACILITY SHALL BE "BARRIER FREE" ACCESSIBLE TO AND USABLE BY PERSON(S) WITH DISABILITIES. ACCORDING TO THE LATEST EDITION TO THE ICC-IBC/NCBC 2012 CHAPTER 11 & ICC/ANSI A117.1 ACCESSIBILITY CODES REQUIREMENTS OF THE APPLICABLE STANDARDS. THE FOLLOWING IS A PARTIAL LIST (BUT NOT LIMITED TO) OF REQUIREMENTS. (REFERENCE 1/N103 FOR ADDITIONAL DETAILS AND GENERAL NOTES)

1. OPERABLE DOOR HARDWARE SHALL BE MOUNTED BETWEEN 30"(MIN.) AND 42"(MAX.) ABOVE FLOOR OR GROUND LEVEL AND BE LEVER TYPE, DESIGNATED FOR (HC) ACCESSIBLE.

# 2. TOILETS ROOMS & ACCESSORIES:

A. LAVATORY TO HAVE LEVER HANDLES, SPRING FAUCETS OR SELF METERING FAUCETS.

B: A COAT HOOK 48" ABOVE THE FLOOR SHALL BE MOUNTED ON THE BACK SIDE OF THE HANDICAPPED STALL DOOR (or) BACK OF ENTRY

C. LOCATE THE WATER CLOSET (MIN.)16.6" TO (MAX)17.5" FROM THE CENTER LINE OF THE FIXTURE TO THE FINISHED WALL SURFACE. THE SEAT WILL BE 17" TO 19" ABOVE THE FLOOR TO THE TOP OF SEAT. TANK TYPE FLUSH LEVER SHALL BE POSITION TOWARD (SIDE APPROACH) ACCESSIBLE CLEAR FLOOR AREA FOR SIDE REACH

D. PROVIDE ONE 42" AND ONE 36" LONG imes 1 1/2" OUTSIDE DIAMETER PEENED GRAB BARS, 1 1/2" FROM THE WALL, WITH (36) BEHIND TOILET AT 6" FROM THE WALL, AND (42) ADJACENT TO AT 12" FROM THE WALL AND CENTERLINE MEASURED 33"-36" PARALLEL TO AND ABOVE THE FLOOR. PROVIDE ADDITIONAL SIMILAR 18" VERTICAL PULL BAR 1-1/2" ABOVE HORIZONTAL SIDE BAR CENTERLINE MEASURED AVE. 39"-41" FROM REAR WALL.

E. LAVATORY TO BE MOUNTED 34"(MAX.) ABOVE THE FINISHED FLOOR TO RIM WITH CLEAR FLOOR KNEE SPACE OF 30" IN WIDTH AND 27" IN CLEAR HEIGHT. (29" CLEAR UNDER FRONT EDGE). EXPOSED WATER/WASTE PLUMBING SHALL BE CLEAR OF ACCESSIBLE FLOOR AREA AND PROTECTED WITH PROPRIETARY VENDOR SUPPLIED "VINYL INSULATED PROTECTION COVERS" SHALL BE PROVIDED TO EACH SERVICE LINE (SIM.

F. INSTALL MIRROR 40"(MAX.) ABOVE THE FINISHED FLOOR (BOTTOM FIN. EDGE) AND (72" TOP FIN. EDGE).

2. GENERAL CONTRACTOR AND ASSOICATED TRADES (SUB-CONTRACTORS) SHALL TO BE FAMILIAR WITH ALL LOCAL ZONING CRITERIA, SPECIAL WORKING CONDITIONS PERTAINING TO ALL BARRICADES, NOISE, DUST, TRASH REMOVAL, ETC. COORDINATE WITH LOCAL AUTHORITIES HAVING JURISDICTION. ANY WORK THAT IS REQUIRED TO TAKE PLACE AT NIGHT OR DURING OFF HOURS SHALL BE VERIFIED WITH GENERAL CONTRACTOR'S PROJECT MANAGER AND ITS COST TO BE INCLUDED IN THE BID.

3 THE GENERAL CONTRACTOR SHALL TO PROTECT NEWLY INSTALLED MATERIALS. MILLWORK, BUILT-INS AND FINISHES. PROTECT PUBLIC AREAS NOT UNDERGOING WORK. ADJOINING AREAS FROM ANY DAMAGE WHICH MAY ARISE FROM THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR ANY DAMAGE ARISING FROM HIS WORK.

- 4. THE GENERAL CONTRACTOR SHALL FURNISH ALL TEMPORARY UTILITIES REQUIRED TO PERFORM THEIR WORK INCLUDING BUT NOT LIMITED TO ELECTRICITY, WATER, HEAT, AND TELEPHONE (OR SITE SUPERINTENDENT W/ CELLULAR PHONE). THE CONTRACTOR SHALL MAINTAIN AT THEIR COST A JOB PHONE, AND ON SITE OFFICE AREA PROPERLY SECURED.
- 5. THE GENERAL CONTRACTOR SHALL MAINTAIN AT THE SITE A WORKING DOCUMENT PRINT SET (IF NOT PRESENTED OTHERWISE WITHIN CONTRACT DOCUMENT SET) AND SPECIFICATIONS THAT SHALL BE UPDATED AS WORK PROGRESSES, INDICATING ANY CHANGES, DEVIATIONS, OR ALTERATIONS; AND SHALL PROVIDE A REVISED SET DENOTED AS "RECORD DOCUMENTS" DRAWINGS TO BE TURNED OVER TO THE BUILDING OWNER/DEVELOPER AND LEASE TENANT/OWNER AT THE COMPLETION OF WORK.
- 6. THE GENERAL CONTRACTOR SHALL DILIGENTLY PERFORM THE WORK TO COMPLETION AND SHALL AT ALL TIMES GIVE THE PERSONAL SUPERVISION AND ATTENTION THERETO AND MAINTAIN A COMPETENT SUPERINTENDENT AND NECESSARY FOREMAN TO ACT FOR THE CONTRACTOR'S FIRM. PROVIDE SUFFICIENT AND SATISFACTORY ON-SITE WORKERS REQUIRED TO ENSURE THE PERFORMANCE OF THE WORK TO COMPLETION AND TO MEET AGREED UPON TURNOVER DATE.

7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LAYOUT AND FOR THAT OF THEIR TRADE SUB-CONTRACTORS. ALL DIMENSIONS INDICATED AS HOLD DIMENSIONS SHALL BE MAINTAINED. DENOTED (REF) SHALL BE DIMENSION "TO" AS (COMPARISON) PRE-EXISITNG CONDITIONS TO CROSS-REFERENCE. ANY VARIANCES FROM THESE WILL BE AT THE RISK OF THAT TRADE OR CONTRACTOR VERIFY ANY EQUIPMENT CLEARANCES PRIOR TO LAYOUT, THE TRADES SHALL BE HELD FOR ANY DAMAGE TO OR ADDITIONAL COST FOR FAILURE TO DO SUCH LAYOUT. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL OVERALL DIMENSIONS, COLUMN LOCATIONS AND REPORT THESE TO THE ARCHITECT. THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF THEIR ON-SITE WORKERS WITH TRADE SUB CONTRACTORS, AND OWNER. ANY FAILURE TO PROPERLY COORDINATE WHICH RESULTS IN ADDITIONAL COST INCLUDING ANY DEMOLITION OF CONSTRUCTION IN PLACE SHALL BE BOURNE BY THE GENERAL CONTRACTOR.

- 8. THE GENERAL CONTRACTOR SHALL OBTAIN, MAINTAIN DURING THE COURSE OF WORK WORKMAN'S COMPENSATION, COMPREHENSIVE LIABILITY INSURANCE INCLUDING COVERAGE FOR BODILY INJURY, PROPERTY DAMAGE, IN ACCORDANCE WITH THE OWNER(S), AND LOCAL REQUIREMENTS. LAWS OF THE STATE AND AS DIRECTED BY THE OWNER(S), PROVIDE EVIDENCE INDICATING INDEMNIFICATION OF THE OWNER(S) AND ARCHITECT. THE GENERAL CONTRACTOR SHALL BEAR THE RISK OF LOSS AND RESPONSIBILITY OF ALL INJURIES OR DAMAGES TO PERSONS OR PROPERTY THAT MAY ARISE FROM THE WORK. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THEFT OF TOOLS. MATERIALS AND EQUIPMENT STORED ON OR OFF THE SITE. ANY ADDITIONAL SINGLE PROJECT SPECIFIC INSURANCE REQUIREMENTS OR INDEMNIFICATION COSTS, SHALL BE BORNE BY THE GENERAL CONTRACTOR.
- GENERAL CONTRACTOR SHALL GUARANTEE ALL WORK INCLUDING WORK PERFORMED BY TRADE SUB-CONTRACTOR'S FOR A PERIOD OF ONE (1) YEAR COMMENCING WITH THE DATE OF TOTAL COMPLETION (PUNCH LIST) OF THE WORK. FURNISH ALL WRITTEN WARRANTIES TO OWNERS REPRESENTATIVES PRIOR TO SUBMISSION OF FINAL PAYMENT.
- O. GENERAL CONTRACTOR AND TRADES SHALL PERFORM HIGH QUALITY PROFESSIONAL WORK, JOIN MATERIALS TO UNIFORM, ACCURATE FITS SO THEY MEET WITH NEAT, STRAIGHT LINES. FREE OF SMEARS OF OVERLAPS. INSTALL EXPOSED MATERIALS APPROPRIATELY LEVEL, PLUMB AND AT ACCURATE RIGHT ANGLES, OR FLUSH WITH ADJOINING MATERIALS. WORK OF EACH TRADE SHALL MEET ALL NATIONAL STANDARDS PUBLISHED BY THAT TRADE, EXCEPT IN THE CASE WHERE THE CONTRACT DOCUMENTS ARE MORE STRINGENT
- . THE GENERAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL MILLWORK ITEMS FOR THE DEVELOPER'S REVIEW. DRAWINGS SHALL SHOW FIELD VERIFIED DIMENSIONS, METHODS OF SUPPORT AND ATTACHMENT, AND SAMPLES OF FINISH TO BE APPLIED.
- WARRANTIES AND GUARANTEES: IN ADDITION TO OTHER GUARANTEES HEREIN OWNER(S) FOR ACCEPTANCE THE WORK TO BE PERFORMED UNDER THIS AGREEMENT, THE SAME SHALL BE IN PROPER FUNCTIONAL ORDER WITHOUT FAILURE, AND THERE SHALL BE NO OMISSION OF OR DEFECT IN MATERIAL OR WORKMANSHIP OF ANY WORK, MACHINERY, EQUIPMENT, PARTS, ASSEMBLIES (EXCEPT THOSE FURNISHED BY OWNER AND OWNER'S PROPRIETARY EQUIPMENT SPECIALIST) AND THAT ALL LABOR, THE AFOREMENTIONED MATERIALS AND ALL OTHER PERFORMED SHALL COMPLY WITH THE AGREEMENT. IF ANY DEFECTIVE OR FAULTY WORKMANSHIP OR MATERIAL IS DISCOVERED WITHIN ONE (1) YEAR COMMENCING FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK, THE SAME SHALL BE PROMPTLY REMEDIED, REPLACED AND RESTORED TO THE OWNER'S SATISFACTION BY THE GENERAL CONTRACTOR AT THE GENERAL CONTRACTOR'S EXPENSE.
- ANY ADDITIONAL WORK, CHANGES, ADDITIONAL SERVICES OR FEES SHALL NOT OCCUR OR BE PROVIDED WITHOUT WRITTEN CONFIRMATION OF THE LEASE TENANT/OWNER PRIOR TO EXECUTION. FAILURE TO DO SO SHALL RESULT IN NO PAYMENT BY THE LEASE TENANT/OWNER OR THEIR REPRESENTATIVES FOR SUCH
- THE ENTIRE AREA OF WORK IS TO BE MAINTAINED IN A NEAT AND ORDERLY MANNER AT ALL TIMES AND POLICED AT INTERVALS TO PREVENT ACCUMULATION OF TRASH AND RUBBISH. ALL MATERIALS SHALL BE STACKED NEATLY IN CENTRAL LOCATIONS AND COORDINATE IT'S DISPOSAL LOCATION WITH THE GENERAL CONTRACTOR'S SUPERINTENDENT. GENERAL CONTRACTOR AND TRADE SUB-CONTRACTORS MUST LEAVE THEIR WORK IN A NEAT AND CLEAN CONDITION READY FOR WORK TO BE PERFORMED BY OTHERS. PROVIDE DUMPSTER AS REQUIRED.
- 15. CLEAN UP AND JOB COMPLETION.
  - A. ALL PUNCH LIST ITEMS SHALL BE COMPLETED WITH THE SATISFACTION OF [LEASE TENANT AND BUILDING OWNER(S)] REPRESENTATIVE BEFORE FINAL PROJECT RELEASE WITH A WRITTEN ACCEPTANCE BETWEEN CONTRACTOR AND OWNER(S)
  - B. PREMISES TO BE TURNED OVER CLEAR OF ALL DEBRIS, PACKING BOXES, WRAPPINGS, AND EXCESS MATERIALS.
  - C. ALL GLASS TO BE CLEANED OF PROTECTIVE PADS, MASTIC AND MARKINGS.
  - D. ALL ELECTRICAL PANELS AND BREAKERS TO BE PROPERLY MARKED AND A TYPED SCHEDULE TO BE PROVIDED.
  - E. A COMPLETE LIST OF ALL SUB NAMES, ADDRESSES, AND TELEPHONE NUMBERS, TO BE SUBMITTED TO [LEASE TENANT AND BUILDING OWNER(S)]
- 16. FINAL PAYMENT
  - 1. ALL FINAL WAIVER MUST BE SUBMITTED WITH FINAL PAYMENT REQUEST.
  - 2. ALL PUNCH LIST ITEMS MUST BE COMPLETED PRIOR TO RELEASE OF FINAL PAYMENT.

GEN. ARCHITECTURAL CONSTRUCTION & PLAN NOTES

THESE WORKING DOCUMENTS HAVE BEEN PREPARED FOR THE BUILDING OWNER(S) AND BY THE BUILDING OWNER(S)' DIRECTIONS WITH SELECTED GENERAL CONTRACTOR AS A DESIGN/BUILD SERVICES FOR THE PURPOSE OF DEPICTING OVERALL BUILDING GEOMETRY, AND THE ASSEMBLY OF ARCHITECTURAL ELEMENTS AND THEIR COMPLIANCE WITH LOCAL BUILDING CODE REQUIREMENTS FOR BUILDING TYPE, MATERIAL FINISHES, ACCESS TO EXITS, AND EXIT SYSTEMS ONLY. FOR COMPLETE CONSTRUCTION INFORMATION, THESE DRAWINGS MUST BE USED IN CONJUNCTION WITH PLUMBING, MECHANICAL, ELECTRICAL, AND MANUFACTURER ENGINEERED BUILDING WOOD TRUSSES PROPRIETARY VENDOR'S SHOP DRAWINGS; AND (IF APPLICABLE) SPECIAL CONSTRUCTION STEEL FABRICATOR'S SHOP DRAWINGS; PROVIDED BY OTHERS.

THESE WORKING DRAWINGS SHOULD PROVIDE THE BUILDING OWNER(S)/GENERAL CONTRACTOR A BASIC SET OF CONTRACT DOCUMENTS (AS A DESIGN/BUILD MECHANISM) FOR PRICE BIDDING AND PERMITTING. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THESE CONTRACT DOCUMENTS, FOR CROSS-REFERENCING RESPECTIVE DESIGN/BUILD CONSTRUCTION TRADES, DIMENSIONS AND SITE VERIFYING OF EXISTING CONDITIONS (ABOVE AND BELOW GRADE) FOR ALL THEIR ACCURACY'S, AND CONFIRMING THAT THE WORK IS BUILD-ABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ISSUES. THE BUILDING OWNER(S)/GEN. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT OR PROJECT DESIGN DISCIPLINES BEFORE PROCEEDING WITH CONSTRUCTION IN QUESTION. THE CONTRACTOR SHALL BE ABLE TO MAKE ANY MODIFICATIONS DEEMED NECESSARY FOR GOOD CONSTRUCTION PRACTICE UNDER THE LATEST EDITION "ICC/IBC-NCBC 2012 ed. GENERAL CONSTRUCTION" INCLUDING AND ANY OTHER ADDITIONAL LOCAL AREA ZONING ORDINANCE

THE BUILDING OWNER'S ASSIGNED AGENT (AND/OR) GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THESE CONTRACTS DOCUMENT REVIEWED FOR ALL NECESSARY APPROVALS AND OBTAINING ALL REQUIRED PERMITS, AND APPLICATIONS IN ACCORDANCE WITH ALL APPLICABLE STATE AND COUNTY BUILDING CODES, AND LOCAL AREA ZONING ORDINANCE, FROM LOCAL AUTHORITIES HAVING JURISDICTION.

THE BUILDING OWNER'S GENERAL CONTRACTOR SHALL INSURE THAT THIS FACILITY WILL BE ACCESSIBLE TO AND USABLE BY PERSON(S) WITH DISABILITIES. ACCORDING TO THE LATEST EDITION/REVISION TO THE "AMERICAN NATIONAL STANDARDS" ICC/ANSI A117.1 2009; ACCESSIBILITY CODE REQUIREMENTS OF THE APPLICABLE STANDARDS.

BUILDING OWNER'S SHALL SPECIFY COMMERCIAL TYPE OF APPLIANCES (KITCHEN EQUIPMENT) AND CABINETRY MILLWORKS (KITCHEN & BAR) DESIGN LAYOUTS WITH MATERIAL SELECTIONS FROM VENDOR'S DESIGN ARRANGEMENT INSTALLATION SHOP DRAWINGS AND PLUMBING FIXTURES FOR SUB-CONTRACTORS TO INSTALL. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE WITH BUILDING OWNER'S APPROVAL ALL OTHER APPLIANCES AND FIXTURES, (MECHANICAL, ELECTRICAL AND PLUMBING (MEPs)) THAT BUILDING OWNER(S) HAS NOT PREVIOUSLY SPECIFIED (OR) WITHIN REFERENCED ENGINEEER(S) MEP DRAWINGS.

GENERAL CONTRACTOR SHALL COORDINATE W/ BUILDING OWNER(S)' SPECIALITY EQUIPMENT VENDOR'S PRODUCT "CUT SHEETS" FOR REQUIRED SERVICE UTILITY CONNECTIONS AND LOCATIONS OF ALL WALL OR CEILING MOUNTED EQUIPMENT AND THEIR ADEQUATE REQUIRED REINFORCEMENT OF WALL STUDS AND MOUNTING BRACKET CONSTRUCTION DURING ROUGH-IN FRAMING INSPECTIONS,

BUILDING OWNER(S) TO COORDINATE WITH GENERAL CONTRACTOR'S MILLWORK CONTRACTOR FOR CUSTOM DESIGNS AND SELECTED FINISHES FOR CABINETRY BUILT—IN'S & CLOSET STORAGE UNITS. (MILLWORK SUB-CONTRACTOR TO PROVIDE SHOP DRAWINGS PRIOR TO CONSTRUCTION FOR ANY REQUIRED WALL FRAMED BLOCKING AND ELECTRICAL/DATA/PHONE OUTLETS NEEDED FOR MILLWORK INSTALLATION) DRAWINGS SHALL SHOW FIELD VERIFIED DIMENSIONS, METHODS OF SUPPORT AND ATTACHMENT, AND SAMPLES OF FINISH TO BE APPLIED.

BUILDING OWNER SHALL REVIEW RESTROOM ACCESSORIES FOR FINAL APPROVAL; GENERAL CONTRACTOR TO PROVIDE SELECTED FINISHING MATERIALS AND COLOR SAMPLES FOR ALL INTERIOR SURFACE FINISHES NOT DESIGNATED BY BUILDING OWNER(S) OR THE OWNER(S)' REPRESENTATIVE

THE GENERAL CONTRACTOR SHALL SUBMIT ALL PROPOSED SUBSTITUTIONS TO THE DESIGNER(S) OF RECORD IN WRITING WITH SUFFICIENT INFORMATION, SAMPLES AND DIFFERENCE IN COST FOR EVALUATION. SUBSTITUTIONS MUST BE APPROVED IN WRITING BEFORE THEY MAY BE USED. IF THE CONTRACTOR, BUILDING OWNER(S) OR THE OWNER(S)' REPRESENTATIVE SUBSTITUTE A MATERIAL, REVISE A CONSTRUCTION DETAIL, METHOD OF ATTACHMENT OR IN ANY WAY ALTER THE WORK SO THAT IT DOES NOT CONFORM WITH THESE DOCUMENTS WITHOUT THE ARCHITECT'S WRITTEN APPROVAL, SUCH ACTION WILL RELIEVE THE ARCHITECT OF ANY RESPONSIBILITY OR LIABILITY AS TO THE AESTHETIC EFFECT, SUBSEQUENT FAILURE, PROPERTY DAMAGE OR PERSONAL LIABILITY.

THE USE OF THE WORD 'TYPICAL' MEANS FOR ALL SIMILAR CONDITIONS UNLESS OTHERWISE NOTED. DETAILS ARE USUALLY KEYED ONLY ONCE ON THE PLANS (ON ELEVATIONS WHEN THEY FIRST OCCUR) AND ARE TYPICAL FOR SIMILAR CONDITIONS THROUGHOUT CONSTRUCTION DOCUMENT SET UNLESS OTHERWISE NOTED.

REFER TO "WALL TYPE LEGEND" DETAILS FOR DESIGNATED WALL TYPES KEYED ON FLOOR PLAN. SEE FLOOR PLAN SHEETS FOR ALL BUILDING DIMENSIONS AND FINISHED FLOOR ELEVATIONS

DO NOT SCALE DRAWINGS, GOVERN DIMENSIONS: LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS. THE WORK SHALL BE LAID OUT FROM DIMENSIONS SHOWN ON THE DRAWINGS ONLY. CONTRACTORS SHALL WORK FROM MOST RECENT DRAWINGS SUPPLIED BY OWNER(S) OR ARCHITECT. TYPICAL FLOOR PLAN DIMENSIONS OF INTERIOR WALLS ARE MEASURED FROM "FACE TO FACE" OF WALL STUDS (FACE END (2x WOOD) EDGE FRAMING, UNLESS NOTED OTHERWISE

THE GENERAL CONTRACTOR SHALL LAYOUT WALL LOCATIONS AND CENTER LINE PLUMBING FIXTURE LOCATIONS AND REVIEW THIS LAYOUT WITH THE ARCHITECT AS NECESSARY.

REQUIRED, GENERAL CONTRACTOR HEREBY GUARANTEES THAT AT DELIVERY TO THE HINGE SIDE OF DOOR TO BE MIN. 5" OFF INSIDE FACE OF PERPENDICULAR STUD WALL (UNLESS

NOTED OTHERWISE); PROVIDE WALL MOUNTED BUMPER @ DOOR LEVER—SET HEIGHT. DIMENSIONAL LUMBER TO BE USED AS BLOCKING WITHIN WALLS (FOR DENOTED "WALL MOUNTED" ACCESSORIES) ALTERNATE BLOCKING: GALV SHEET METAL (ASTM G40 16 GAUGE (54mils) FASTEN TO AND CONTINUOUS CROSS MULTIPLE WALL STUD FACE EDGES

THE GENERAL CONTRACTOR SHALL PERFORM HIGH QUALITY PROFESSIONAL WORK, JOIN MATERIALS TO UNIFORM, ACCURATE FITS SO THEY MEET WITH NEAT, STRAIGHT LINES, FREE OF SMEARS OF OVERLAPS. INSTALL EXPOSED MATERIALS APPROPRIATELY LEVEL, PLUMB AND AT ACCURATE RIGHT ANGLES, OR FLUSH WITH ADJOINING MATERIALS. WORK OF EACH TRADE SHALL MEET ALL NATIONAL STANDARDS PUBLISHED BY THAT TRADE, EXCEPT IN THE CASE WHERE THE CONTRACT DOCUMENTS ARE MORE STRINGENT

ALL MATERIAL SPECIFIED IS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS. GENERAL CONTRACTOR IS TO CONSTRUCT PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S RECOMMENDATIONS.

ABSOLUTELY NO THRU ROOF PENETRATION ALLOWED WITHOUT BUILDING OWNER'S WRITTEN ACCEPTANCE AND GENERAL CONTRACTOR'S WRITTEN ASSURANCE TO MAINTAIN ROOF WARRANTY PER FINISHED ROOF PROPRIETARY MANUFACTURER RECOMMENDATIONS

"SPECIFIC" GENERAL CONDITIONS: THE PRESENCE OF THE ARCHITECT'S REPRESENTATIVE (OR VISITING ARCHITECT) ON THE JOB SITE DOES NOT IMPLY CONCURRENCE OR APPROVAL OF THE WORK COMPLETED OR BEING PERFORMED DURING SITE VISITS. THE GENERAL CONTRACTOR SHALL CALL SPECIFIC ITEMS TO THE ATTENTION OF THE ARCHITECT'S REPRESENTATIVE IF CONTRACTOR WISHES TO OBTAIN THE ARCHITECT'S APPROVAL. CONSTRUCTION OBSERVATION IS NOT PART OF THIS DESIGN/BUILD CONTRACT BETWEEN DESIGN ELEMENT, INC., WITH BUILDING OWNER(S) AND/OR GENERAL CONTRACTOR

JOB SITE SAFETY: DESIGN/BUILD ARCHITECTURAL FIRM (DESIGN ELEMENT, INC) DOES NOT HAVE CONTRACTUAL RESPONSIBILITY FOR "JOB SITE" SAFETY (AND) PROVIDING SERVICES INVOLVED IN CONSTRUCTION ACTIVITY. GENERAL CONTRACTOR SHALL BE RESPONSIBLE IN HAVING CONTROL OF "JOB-SITE" CONSTRUCTION MEANS, METHODS AND SAFETY PROCEDURES TO ALL EMPLOYED PERSONNEL, CONTRACTED SUB-CONTRACTORS AND BUILDING OWNER'S PROPERTY DURING CONSTRUCTION.

SEVERE COASTAL ENVIRONMENT: DESIGN/BUILD ARCHITECTURAL FIRM (DESIGN ELEMENT, INC) DOES NOT HAVE CONTRACTUAL WARRANTIES FOR OWNER(S)' CONTRACTOR'S PRODUCT MATERIALS. METHODS OF CONSTRUCTION OR INSTALLATION AND MAINTENANCE PROCEDURES FOR THIS PROPOSED PROJECT. "ADVISORY NOTICE:" DUE TO THE VICINITY (WITHIN THREE MILES OF COASTAL SALT WATERS) OF PROPOSED DESIGN/BUILD PROJECT; LOCATED AND SUBJECTED TO SEVERE / ADVERSE ENVIRONMENTAL SURROUNDING CONDITIONS (SALT LATENT AIR AND OCEAN FRONT EXCESSIVE WINDS), THE PROJECT OWNER(S)' MUST BE AWARE TO MAINTAIN A REGULAR SCHEDULE OF AGGRESSIVE BUILDING MAINTENANCE AND AN OPERATIONAL PLAN WITH RECORDS, TO INSURE A REASONABLE PRODUCT MATERIAL LONGEVITY OF THE BUILDING'S FINISHES AND EXTERIOR COMPONENTS. THE "ARCHITECT OF RECORD" HAS PREPARED ONLY, ARCHITECTURAL DETAILED CONSTRUCTION DOCUMENTS AS TO THE BEST PROFESSIONAL DESIGNED OPINIONS, TO REDUCE ABNORMAL WEARING EFFECTS OF AREAS SUBJECTED TO SEVERE COASTAL ENVIRONMENT CONDITIONS.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADVISING THE BUILDING OWNER(S) AND OWNER(S) REPRESENTATIVE OF ANY QUESTIONS REGARDING THE FINISH SELECTIONS, FINISH SYSTEMS, METHOD OF APPLICATION, OR SCOPE OF WORK PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.

ALL FLAME SPREAD RATINGS FOR INTERIOR FINISHES TO BE IN ACCORDANCE WITH IBC/NCBC-2012 CODE TABLE 803.9 AS FOLLOWS:

EXIT ACCESS CORRIDOR & OTHER EXITWAYS: MINIMUM CLASS "B" ROOMS AND ENCLOSED SPACES: MINIMUM CLASS "C" OR BETTER.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSPECTION OF THE SURFACES TO RECEIVE DECORATIVE COLORED STAIN CONCRETE FINISH, PAINT OR WALL COVERING AND ASSURING THAT SUCH SURFACES ARE ACCEPTABLE FOR APPLICATION PRIOR TO INITIATING ACTUAL FINISH WORK. NO STAIN, PAINT OR FINISH SHALL BE APPLIED ON ANY SURFACE WHICH IS UNFINISHED, OR IMPROPERLY PREPARED OR OTHERWISE NOT FULLY ACCEPTABLE FOR THE FINISH APPLICATION. ALL ROUGHNESS OR OTHER IRREGULARITIES THAT MAY APPEAR AFTER PRIMING SHALL BE THOROUGHLY SANDED OUT OR OTHERWISE CORRECTED TO PROVIDE A SMOOTH, EVEN SURFACE FOR PAINTING AND FINISHING. FINISHED APPLICATION AND WALL APPEARANCE SHALL BE FREE OF SURFACE AND COLOR IRREGULARITIES. BY FINISHING THESE SURFACES, THE FINISH/PAINTING CONTRACTOR ACCEPTS THE RESPONSIBILITY FOR FINAL PRODUCT.

ALL GYPSUM BOARD AT DENOTED RATED PARTITIONS WALLS SHALL BE 5/8" FIRE CODE TYPE "X" (UL LISTED) GYPSUM BOARD CLOSED TO UNDERSIDE OF ROOF/FLOOR DECKS ABOVE IN COMPLIANCE WITH APPLICABLE CODES. GENERAL CONTRACTOR TO VERIFY WALLS ARE CLOSED TO ROOF/FLOOR DECKS AND IN COMPLIANCE WITH CODE, INCLUDE ANY WORK REQUIRED IN BASE BID. 「ALL HORIZONTAL GYPSUM BOARD SHEATHING AT THE CEILINGS SHALL BE 5/8" FIRE CODE TYPE "C" (UL LISTED)]

ALL FINISHED TRIM TO BE PAINT GRADE POPLAR SMOOTH SANDED FINISHED WITH SCARFED JOINTS AND MITERED CORNER JOINTS GLUED AND NAILED-NO BUTT JOINTS.

PLASTIC LAMINATE COLORS NOT SHOWN ON THE DRAWINGS WILL BE SELECTED AT THE TIME OF SHOP DRAWING SUBMITTAL BY GEN CONTRACTOR W/ OWNER'S APPROVAL.

MOISTURE RESISTANT GYPSUM WALL BOARD FINISH (ALL WET AREAS AND ENTRY ALCOVES

SOLID SURFACE COMPOSITE, CULTURE (AND/OR) GRANITE COUNTERTOPS TEXTURES AND COLORS NOT SHOWN ON THE DRAWINGS SHALL BE SELECTED AT THE TIME OF SHOP DRAWING SUBMITTAL BY GEN CONTRACTOR W/ OWNER'S APPROVAL.

## INTERIOR PAINTING IF APPLICABLE

THE GENERAL CONTRACTOR SHALL SUBMIT FOR THE OWNER'S REPRESENTATIVE 12"x12" SAMPLES, IN DUPLICATES, OF ALL SPECIFIED FINISHES. UPON ACCEPTANCE, ON SAMPLES OF EACH FINISH, SIGNED DUPLICATES FROM THE OWNER'S REPRESENTATIVE SHALL HAVE ONE RETAINED BY OWNER(S) AND THE GENERAL CONTRACTOR. ADDITIONAL DUPLICATES SHALL BE FORWARD TO THE PROPRIETARY MATERIAL VENDOR AND PAINTING SUB-CONTRACTOR FOR THEIR ACKNOWLEDGMENT OF SAMPLE FINISHES TO THE GENERAL CONTRACTOR. COLORS AND MATERIAL FINISHES SHALL BE AS SPECIFIED ON OWNER'S REPRESENTATIVE'S SELECTED COLOR SCHEDULES. ALL FINISHES SHALL MATCH EXACTLY THE SAMPLES AND SPECIFIED COLORS.

BEFORE PAINTING BEGINS, PAINTING CONTRACTOR SHALL VERIFY ALL INTERIOR GYPSUM WALL BOARD SURFACES HAVE RECEIVED A MIN. (GA-214) LEVEL FIVE (5) FINISH. GENERAL CONTRACTOR TO CONFIRM SUITABILITY OF ALL SURFACES TO RECEIVE PAINT AS PER MANUFACTURER'S SPECIFICATIONS. PAINTING CONTRACTOR SHALL NOTIFY TO GENERAL CONTRACTOR IF ANY SURFACES ARE NOT ACCEPTABLE TO RECEIVE FINISH AS SPECIFIED. POOR APPLICATION OVER UNSUITABLE SURFACE IS PAINTING CONTRACTORS RESPONSIBILITY.

APPLICATION FOR ALL PAINTED SURFACES SHALL RECEIVE NOT LESS ONE (1) COAT HIGH BUILD (MIN. 35% SOLID) SURFACE PAINT PRIMER AND TWO (2) FINISHED COATS OF ACRYLIC LATEX PAINT SYSTEM, UNLESS OTHERWISE NOTED, USING THE COMPLETE PAINT SYSTEM (SEALER, PRIMER, FINISH COAT, ETC.) AS RECOMMENDED BY THE PAINT MANUFACTURER AND ALL APPLICABLE MINIMUM TRADE STANDARDS.

UNLESS OTHERWISE SPECIFIED, PAINTED FINISH "SHEEN" SHALL BE AS FOLLOWS:

<u>CEILINGS</u>: LATEX BASE — FLAT "MATTE" FINISH (ONLY IF GYPSUM BOARD)

<u>WALLS:</u> LATEX BASE — EGG SHELL FINISH (ONLY IF GYPSUM BOARD) LATEX BASE — SEMI-GLOSS FINISH (AT ALL PAINTED WALL SURFACES WITHIN BATHROOMS AND HIGH TRAFFIC AREAS: CORRIDORS)

TRIM: BASE, CROWN MOLDING, DOOR AND WINDOWS (EXCEPT SELECTED AREAS TO BE STAINED)) LATEX BASE - HIGH-GLOSS FINISH (ONLY IF WOOD OR MDF SELECTED)

ALL MATERIAL WORKMANSHIP OF PAINTED SURFACE SHALL PRODUCE A UNIFORM FINISH OF SMOOTH ROLLED OR BRUSHED WITH NO SKIPS, LAPS, OR STREAKS.

THE GENERAL CONTRACTOR SHALL, UPON COMPLETION, REMOVE ALL PAINT FROM WHERE IT HAS SPILLED, SPLASHED OR SPLATTERED ON SURFACES, INCLUDING LIGHT FIXTURES, DIFFUSERS, REGISTERS. FITTINGS, ETC. THE GENERAL CONTRACTOR SHALL RECEIVE ALL ELECTRICAL SWITCH AND OUTLET PLATES, SURFACE HARDWARE, ETC. BEFORE PAINTING. THE GENERAL CONTRACTOR SHALL PROTECT AND REPLACE THE SAME WHEN PAINTING IS COMPLETE.

PAINTING CONTRACTOR TO FILL AND TOUCH UP ALL NAIL HOLES IN WOOD TRIM.

PAINTING CONTRACTOR SHALL PROVIDE CAULKING AROUND ALL INTERIOR AND EXTERIOR FINISHED WINDOW FRAMES, BUILT-INS, JOINTS AND INTERSECTIONS OF DISSIMILAR MATERIALS IN COORDINATION WITH THE GENERAL CONTRACTOR. FINISHED CAULKING SHALL BY POLYURETHANE ADHESIVES / SEALANT COLOR MATCH TO WINDOW AND DOOR FRAMES; (SIM MFR. SONNEBORNE NP-1) ABSOLUTELY NO SILICONE SEALANT ALLOWED

PAINTING CONTRACTOR TO LEAVE ON SITE ONE (1) QUART OF EACH PAINT TYPE AND COLOR USED FOR THIS JOB, IN CLEARLY MARKED CONTAINERS.

ALL WALLS SCHEDULED TO RECEIVE WALL COVERING SHALL BE PRIMED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

ALL STAINED WOODWORK TO BE MINIMUM TWO (2) COATS STAIN WITH MINIMUM TWO (2) COATS SATIN FINISH POLYURETHANE.

EXTERIOR CONCRETE: SURFACE SEALER FINISH

ALL EXPOSED CONCRETE SHALL BE FINISHED W/ (2) COATS CONCRETE WATERPROOFING SEALER W/ UV BLOCKERS (SIM. MFG. BENJAMIN MOORE & CO. "SEALER 075"; COLOR: CLEAR)

# WALLCOVER IF APPLICABLE

WALLCOVERING IF SELECTED BY OWNER(S) SHALL BE SUPPLIED BY INTERIOR DESIGNER AND INSTALLED BY GENERAL CONTRACTOR. "ABSOLUTELY NO" VINYL WALLCOVERING SHALL BE ALLOWED ON ANY INTERIOR SURFACE FINISHES OF EXTERIOR WALLS (THAT ARE EXPOSED TO OUTSIDE ENVIRONMENT).

ALL WALLS (IF SCHEDULED OR DESIRED BY OWNER'S INTENT) TO RECEIVE WALL FINISH COVERING SHALL BE GYPSUM WALL BOARD PAINTED PRIMED BEFORE FINISHING PRIMER IS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

WALLCOVERING TO BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS INCLUDING RECOMMENDED ADHESIVE. ALL WALLS TO BE PROPERLY SIZED PRIOR TO INSTALLATION.

WALLCOVERING SURFACES TO BE CLEANED OF ALL ADHESIVE RESIDUE. ALL EXCESS ADHESIVE TO BE REMOVED WITH COMMERCIAL CLEANER COMPATIBLE WITH ALLOVER.

ALL EXTRA WALLCOVERING ROLLS TO REMAIN AT JOB SITE. CLEAN MATERIAL OF EXCESS PASTE, DIRT, DEBRIS, OR LABELS.

# CONCRETE WORK

(REFERENCE STRUCTURAL CONTRACT DOCUMENTS (IF PROVIDED) FOR COMPREHENSIVE ENGINEERING NOTES AND SPECIFICATIONS; NOTE: THE MOST STRINGENT DETAIL INFORMATION AND GENERAL NOTES (ARCH (OR) STRUC) SHALL TAKE PRECEDENCE!

GENERAL CONTRACTOR <u>SHALL BE RESPONSIBLE TO REVIEW AND REFERENCE</u> PROFESSIONAL SOIL ENGINEER'S SUBSURFACE ECO-TECHNICAL SOIL REPORT (PROVIDED BY BUILDING OWNER(S)) FOR RECOMMENDATIONS TO STRUCTURALLY SITE PREP AND CONDITION EXISTING GRADES TO ACHIEVE PROPER SOIL BEARING CAPACITIES.

WITHIN BUILDING PAD (FOOT PRINT) AND 5'-0" BEYOND BUILDING LINE; REMOVE TOPSOIL CONTAINING,

ORGANICS, SOFT CLAY AND OTHER UNSUITABLE MATERIALS UNDER PROPOSED FOUNDATION FOOTINGS AND INTERIOR CONCRETE FLOOR (SLAB-ON-GRADE) AND TERMITE TREAT SOIL BEFORE (FOOTING & SLAB) BUILDING CONSTRUCTION BEGINS. CONCRETE FLOOR SLAB SHALL BEAR ON SELECT (MIN. 6") DRAÍN-ABLE CLEAN COMPACTED SUB-GRADE FILL CAPABLE OF SUPPORTING A DESIGN BEARING PRESSURE OR 2000 PSF; WHERE DRAIN-ABLE SUB-GRADE DOES NOT EXTEND TO SUITABLE UNDISTURBED SUBSOIL. ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND THE INTERIOR BUILDING FOOTPRINT PAD SHALL BE FILLED WITH CLEAN MATERIAL SELECT AND COMPACTED TO 95% DENSITY (COMPACTION PROCEDURE PER ASTM RECOMMENDATIONS) FILL FOR INTERIOR BUILDING PAD AND AREA OF PROPOSED TRENCHING FOR INTERIOR UNDER FLOOR SLAB UTILITIES (ELECTRICAL). CONCRETE FLOOR SLAB AND "BACK-FILL) SUB-GRADE FROM UTILITIES TRENCHING SHALL NOT BE ACCEPTABLE UNTIL SOIL THE GENERAL CONTRACTOR SHALL REFERENCE PROPRIETARY MANUFACTURER'S COMPACT TESTS HAVE BEEN PASSED (OR) GENERAL CONTRACTOR ACCEPTS SURETIES AND RESPONSIBILITIES FOR EXISTING AND BACK-FILL SOIL CONDITIONS TO RESIST BUILDING SETTLEMENT ISSUES.

CONCRETE WORK (CONTINUED)

ALL FOUNDATIONS (FOOTINGS) SHALL BEAR ON UNDISTURBED (WITHOUT ORGANIC) SOIL (OR) SELECT FILL CAPABLE OF SUPPORTING A DESIGN BEARING PRESSURE (AS DENOTED IN STRUCTURAL CONTRACT DOCUMENTS AND SOIL ENGINEER'S REPORT); WHERE THE BOTTOM OF FOOTER ELEVATION DOES NOT EXTEND TO SUITABLE UNDISTURBED SUBSOIL, ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND FILLED WITH CLEAN MATERIAL SELECT AND COMPACTED TO 95% DENSITY (COMPACTION PROCEDURE PER ASTM RECOMMENDATIONS) FILL SHALL BE TESTED FOR COMPACTION BY A CERTIFIED GEO-TECHNICAL SOIL ENGINEERING TESTING FIRM. TEST SHALL BE CONDUCTED IN AN AREA OF PROPOSED TRENCHED FOOTING, ONE TEST PER 50 LINEAR FEET OF FOOTING. FOOTING SUB GRADE WILL NOT BE ACCEPTABLE UNIT TESTS HAVE BEEN PASSED (OR) GENERAL CONTRACTOR ACCEPTS SURETIES AND RESPONSIBILITIES FOR EXISTING SOIL CONDITIONS TO RESIST BUILDING SETTLEMENT ISSUES.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW AND REFERENCE PROFESSIONAL SOIL ENGINEER'S SUBSURFACE ECO-TECHNICAL SOIL REPORT (PROVIDED BY BUILDING OWNER(S)) FOR RECOMMENDATIONS TO STRUCTURALLY SITE PREP AND CONDITION EXISTING GRADES TO ACHIEVE PROPER SOIL BEARING CAPACITIES.

CONCRETE FLOOR SLAB-ON-GRADE SHALL OBTAIN A COMPRESSIVE STRENGTH OF (MIN.) 4000psi (LOW SLUMP POUR) AT AN AGE OF 28 DAYS; CONCRETE TEST RESULTS AND SUPPLYING PRODUCT VENDOR'S CONCRETE MIXTURE RATIO REPORT SHALL BE AVAILABLE AT THE JOB SITE FOR REVIEW BY INSPECTOR ALL REINFORCING STEEL BARS SHALL BE IN ACCORDANCE WITH ASTM A-615, GRADE 60 ksi; WELD

PLACEMENT AND PROTECTION (AND CLEAN FROM SURFACE RUST) OF STEEL REINFORCING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF A.C.I. 318 (LATEST EDITION); MINIMUM CLEAR CONCRETE COVER CAST AGAINST AND PERMANENTLY EXPOSED TO GRADE: (3") EXPOSED TO

WHERE CONTINUOUS REINFORCING BARS ARE REQUIRED THERE SHALL BE A MIN. 36 (X) BAR DIAMETER AT END LAPPED SPLICES

ALL CONCRETE MASONRY UNITS SHALL BE IN ACCORDANCE OF WITH ASTM C-90 TYPE I GRADE N-1 (FM 1350psi); GROUT FOR MASONRY WALL SHALL COMPLY WITH ASTM C-476, AND SHALL BE PROPORTIONED TO OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2500psi; ALL MORTAR SHALL BE ASTM C-270. TYPE M OR S.

# CONVENTIONAL 2x WOOD FRAMING

WIRE FABRIC (WWF) WITH ASTM A185;

WEATHER ABOVE GRADE: (2")

LUMBER ABOVE GROUND AND EXPOSED TO WEATHER SHALL BE PRESSURE TREATED PER USE CATEGORY UC1-3 IN ACCORDANCE WITH AWPA C2/C9. LUMBER IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PER USE CATEGORY UC1-3

JOISTS, STUDS, RAFTERS AND GIRDERS SHALL BE GRADE NO. 2 SOUTHERN YELLOW PINE (SYP); OR NO. 1 STRUCTURAL GRADE; SPRUCE PINE FIR (SPF)

PROVIDE SOLID BLOCKING LOCATED AT 1/3' POINTS FOR EXTERIOR LOAD BEARING WALLS. FOR ALL OTHER WALLS, PROVIDE BLOCKING AT MID HEIGHT.

SHEAR WALLS SHALL BE NOM. 5/8" (APA) C-D EXTERIOR GRADE PANELS. FASTEN WITH 8d RING SHANK NAILS AT 6" O.C. AT ALL PANEL EDGES AND 12" O.C. AT ALL "IN-FILL" INTERMEDIATE SUPPORTS. PROVIDE DOUBLE WALL STUDS @ EDGES OF SHEAR WALLS.

ROOF SHEATHING SHALL BE NOM. 3/4" (APA) C-D EXTERIOR GRADE PLYWOOD PANELS OR APPROVE EQUAL. PLACE WITH LONG DIMENSION PERPENDICULAR TO FRAMING. STAGGER END JOINTS. FASTEN WITH 8d HOT—DIPPED GALVANIZED BOX NAILS AT 6" O.C. AT ALL SUPPORTED EDGES, EXCEPT WITHIN THE FIRST 4'-0" FROM ROOF EDGES. FASTENERS WITHIN THE FIRST 4'-0" SHALL BE AT 4" O.C.

WALL SHEATHING SHALL BE NOM. 5/8" (APA) C-D EXTERIOR GRADE PLYWOOD PANELS OR APPROVED EQUAL. PLACE WITH LONG DIMENSION PERPENDICULAR TO FRAMING. STAGGER END JOINTS. FASTEN WITH 8d HOT-DIPPED GALVANIZED RING SHANK NAILS AT 6" O.C. AT ALL SUPPORTED EDGES, (4" O.C. AT EDGES WITHIN 48" OF ALL BUILDING CORNER SUBJECTED TO HIGH WINDS) AND "IN-FILL" INTERMEDIATE FRAMING FASTENERS SHALL BE AT 12" O.C.

## MANUFACTURED ENGINEERED ROOF FRAMED TRUSSES

CONTRACT DOCUMENTS (WORKING DRAWINGS) SHOW BASIC BUILDING ARRANGEMENTS, WORK POINTS, TIMBER TRUSSES, FRAMING DETAILS AND BUILDING CROSS SECTIONS ARE FOR PRESENTATION PURPOSES ONLY AS A SCHEMATIC LAYOUT FOR A PROPRIETARY ROOF TRUSS SUPPLYING VENDOR. SEE STRUCTURAL ENGINEER'S WORKING DRAWINGS AND PRE-FAB/ENGINEERED TRUSS MANUFACTURER'S DESIGNED SHOP DRAWINGS FOR ACTUAL QUANTITIES, LOCATIONS AND INSTALLATIONS OF ROOF TRUSSES, AND TRUSS SUPPORTING (LAMINATED VENEER LUMBER) BEAMS. GENERAL CONTRACTOR SHALL COORDINATE TYPICAL ROOF TRUSS END BEARING AND UPLIFT REACTIONS WITH "STRUCTURAL ENGINEER OF RECORD" FOR VERIFYING ADEQUATE TRUSS HANGERS, AND HOLD—DOWN "HIGH WIND UPLIFT" CLIPS SIZES

GENERAL STRUCTURAL NOTES (SEE FRAMING DRAWINGS "BUILDING ANALYSIS SUMMARY FOR ADDITIONAL DETAILED INFORMATION)

<u>DESIGN LIVE LOADS</u>

DL 10 PSF LL 20.0 PSF COLLATERAL LOAD: 5.0 PSF

# (COLLATERAL LOADS SHALL NOT BE USED IN WIND UPLIFT LOAD CASES)

<u>WIND LOADS</u> BASIC WIND VELOCITY: (MIN) 118 MPH EXPOSURE CLASS:

GENERAL CONTRACTOR (GC) TO HAVE WALL SECTIONS AND FRAMING SCHEMATIC PLANS REVIEWED BY PRE-FAB/ENGINEERED FLOOR, ROOF & BEAM MANUFACTURER BEFORE COST ESTIMATING AND CONSTRUCTION BEGINS. (MANUFACTURED/ENGINEERED TRUSSES & LAMINATED VENEER LUMBER BEAM FABRICATOR TO PROVIDE G.C. WITH CERTIFIED (NC ENGINEERED SEALED) WORKING DOCUMENTS & INSTALLATION DETAILS, THAT SHOWS THEIR TRUSS SYSTEM IS DESIGNED IN COMPLIANCE TO LATEST EDITION OF ICC/IBC-NCBC 2018 GENERAL CONSTRUCTION & ASCE 7-10

(NC RECOGNIZED LATEST EDITION) CODES. (G.C.) TO SUBMIT THESE SEALED WORKING DOCUMENTS TO ENGINEER OF RECORD FOR VERIFICATION OF MANUFACTURER'S COMPLIANCE TO CODE CRITERIA DESIGNED LOADS.

IF REQUESTED BY AUTHORITIES HAVING JURISDICTION, GENERAL CONTRACTOR SHALL HAVE TRUSS MANUFACTURER SUBMIT FOR APPROVAL: SEALED SHOP DRAWINGS WITH DESIGN CALCULATIONS BY AN ENGINEER REGISTERED IN N.C..

THE GENERAL CONTRACTOR DURING CONSTRUCTION AND ERECTION SHALL ADEQUATELY BRACE AND SUPPORT ALL FRAMING UNTIL ALL CONNECTIONS, PERMANENT BRACING, AND ROOF DECK ARE IN PL

BEFORE FINAL PLACEMENT AND CONSTRUCTION OF ROOF TRUSSES, GENERAL CONTRACTOR & RESPECTED SUB-CONTRACTOR(S) OF TRADES ARE TO COORDINATE ALL PROPOSED VERTICAL AND HORIZONTAL INSTALLATION OF THEIR COMPONENT (PLUMBING WASTE STACKS AND TRAPS, ELECTRICAL AND (IF APPLICABLE) FIRE SPRINKLER PIPING) DESIGNS RUNNING BETWEEN AND THRU ROOF TRUSSES. COORDINATION FOR FIELD ADJUSTMENTS SHALL BE REVIEWED WITH STRUCTURAL ENGINEER AND "TRUSS MANUFACTURER" SHOP DRAWINGS FOR THEIR ALLOWABLE CLEAR VERT./HORZ. DIMENSIONS. SPACE TRUSS FRAMING LOCATIONS AWAY FROM WASTE WATER PLUMBING SYSTEMS; "ABSOLUTELY NO MODIFICATION (CUTTING (OR) NOTCHING) OF PRE-MANUFACTURED (TRUSS VENDOR) TRUSSES SHALL BE ALLOWED" GENERAL CONTRACTOR AND/OR SUB-CONTRACTOR(S) SHALL BE HELD RESPONSIBLE FOR RELOCATING (OR) RECEIVE FROM PROPRIETARY TRUSS MFG "FIELD ALTERATION" DETAILING INFORMATION ENABLING "FIELD MODIFY" TO EXISTING CONFLICTING TRUSSES TO THEIR RESPECTED WORK OF TRADE.

MECHANICAL ELECTRICAL, PLUMBING DESIGNERS-CONTRACTORS (IF REQUIRED FIRE SPRINKLER) AND RESPECTED TRADE SUB-CONTRACTOR(S) TO COORDINATE WITH (GENERAL CONTRACTOR) ANY PROPOSED DUCTWORK AND PIPING DESIGNS RUNNING THRU MANUFACTURED TRUSSES. COORDINATION OF THE MECHANICAL/PIPNG DESIGNS SHALL BE REVIEWED WITH PROPRIETARY "ENGINEER OF RECORD" FOR THEIR ALLOWABLE SUSPENDED WEIGHT, CLEAR ROUGH OPENING SIZES AND HORIZ. LOCATIONS THRU TRUSS WEB FRAMING

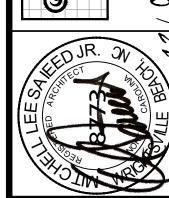
NOTICE: GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY BRACING TO ENGINEERED-MANUFACTURED ROOF WOOD TRUSS ASSEMBLY SYSTEMS DURING CONSTRUCTION (SEE MANUFACTURER'S RECOMMENDATIONS). NOTE: IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE INSTALLATION AND DIMENSIONAL ALIGNMENT OF TRUSSES AS NOT TO INTERFERE WITH CONSTRUCTION OF THRU FLOOR PLUMBING PLACEMENT OF TOILET OR ANY OTHER (UNDER FLOOR FIXTURE) DIRECT WASTE LINES

# MANUFACTURED EXTERIOR VINYL SIDING AND SOFFIT

COMMERCIAL PROJECT INSTALLATION INSTRUCTIONS AND ICC-ES PRODUCT EVALUATION REPORT ESR-1066 (REISSUED MAY 2016) FOR DETAILED INFORMA ALC Nevision no.



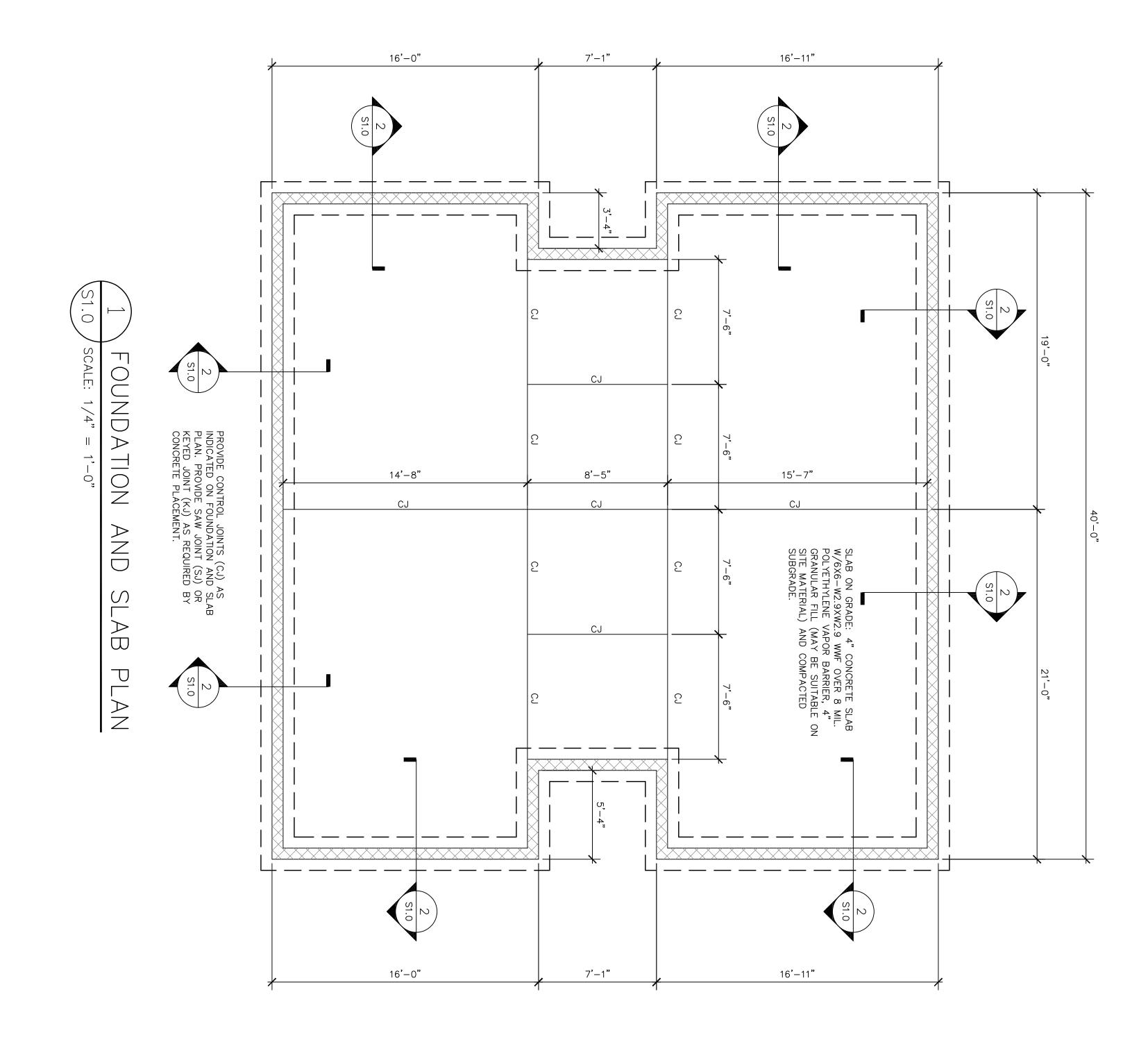


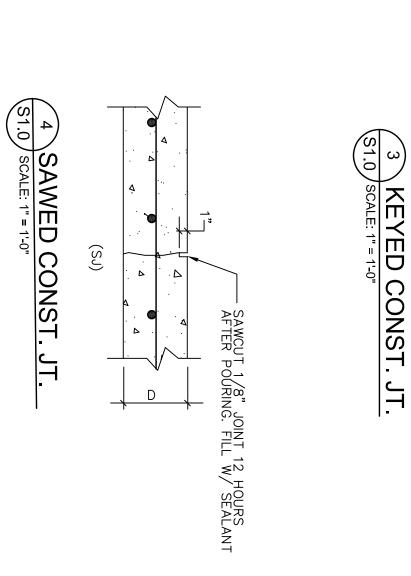


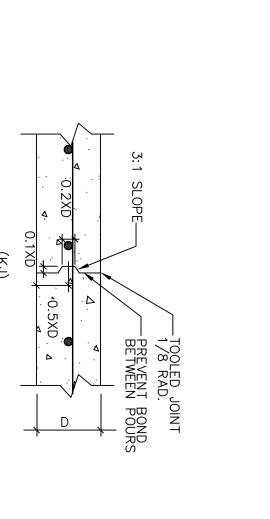
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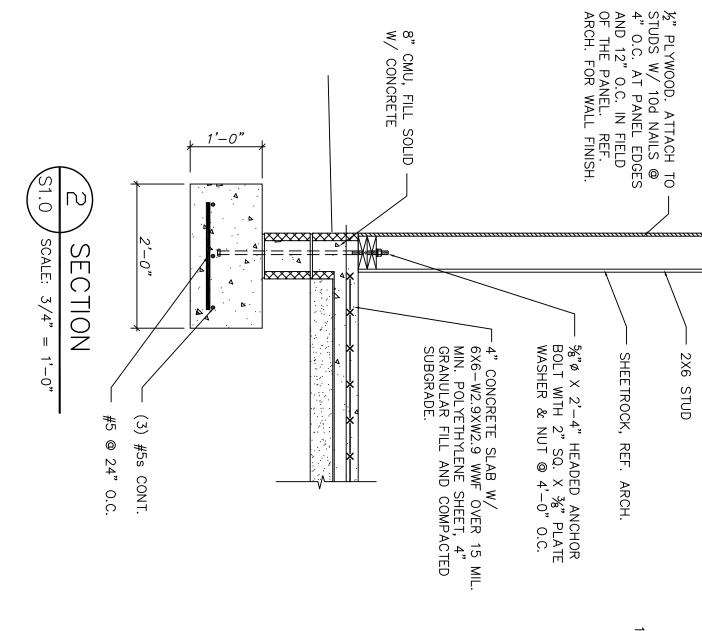
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revision 12/06/21 ISSUE FOR CODE ENFORCEMENT REVIEW & APPROVAL









report)

Vy = 31.6

Dual w/Special Moment Frame
Dual w/Intermediate R/C or Special
Inverted Pendulum

=<u>29.24</u> %g S<sub>1</sub> =<u>9.7</u> %g □Field Test 🛛 Presumptive 🗆 Historical

# BEARING CAPACITIES: Field Test (provide copy of test Presumptive Bearing Capacity Pile size, type, and capacity

SOIL

LATE

CONSTRUCTION IS

# 1. FOOTING DESIGN

IS BASED

ON AN ALLOWABLE

BEARING PRESSURE

CONCRETE COMPRESSIVE STRENGTH WATER/CEMENT RATIO 0.45

AIR ENTRAINMENT

TO

ALL WORK SHALL COMPLY WITH THE N.C. STATE WOOD CONNECTIONS AND DETAILS NOT SHOWN (ACCORDANCE WITH THE "WOOD CONSTRUCTION" OF THE N.C. STATE BUILDING CODE. JMBER IN CONTACT WITH MASONRY OR 1-C TO 0.25 PCF RETENTION. BUILDING CODE (LATEST EDITION).
ON THE DRAWINGS SHALL BE IN
CHAPTER AND THE FASTENING SCH

TRUSS AND DETAILS ON THESE DRAWINGS ARE FOR ESTIMATING PURPOSES ONLY AND SUBJECT TO MODIFICATION DEPENDING ON THE PARTICULAR TRUSS USED.

LUMBER ABOVE GROUND AND EXPOSED CA-C TO 0.25 PCF RETENTION.

TO WEATHER SHALL BE PRESSURE TREATED

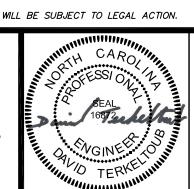
TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS ENGINEER OF RECORD FOR APPROVAL BASED ON THE INFORMATION PROVIDED. THE DRAWINGS AND CALCULATIONS SHALL BE LICENSED IN THE STATE OF NORTH CAROLINA

DURING CONSTRUCTION AND ERECTION, THE CONTRACTOR SHALL ADEQUATELY BRACE AND SUPPORT ALL TRUSSES UNTIL ALL CONNECTIONS, PERMANENT BRACING, AND ROOF DECK ARE IN PLACE.

# COPYRIGHT; DESIGN ELEMENTS 2021 **Proposed Dispatch Office Building for** Crete Solutions, LLC 2544 US 401 N Lillington, North Carolina 27546

**Contract Documents - Issued for Construction** 





CATEGORY A Section 1616.4 only

?□Yes

⊠C □D n Parameters:

Basic Wind Speed \_\_\_\_ Exposure Category \_\_\_\_ s (for MWFRS) Vx = 56.0K\_

Ş

= 48.0K

15.0 118 B

psf \_MPH

# THIS SHEET SHOWS BASIC DRAFTING STANDARDS DAVID TERKELTOUB AND ASSOCIATES, P.C **CONSULTING ENGINEERS**

118 MPH (N.C. STATE BUILDING CODE LATEST EDITION).
DESIGN PRESSURES PER ASCE 7-10 EXPOSURE B

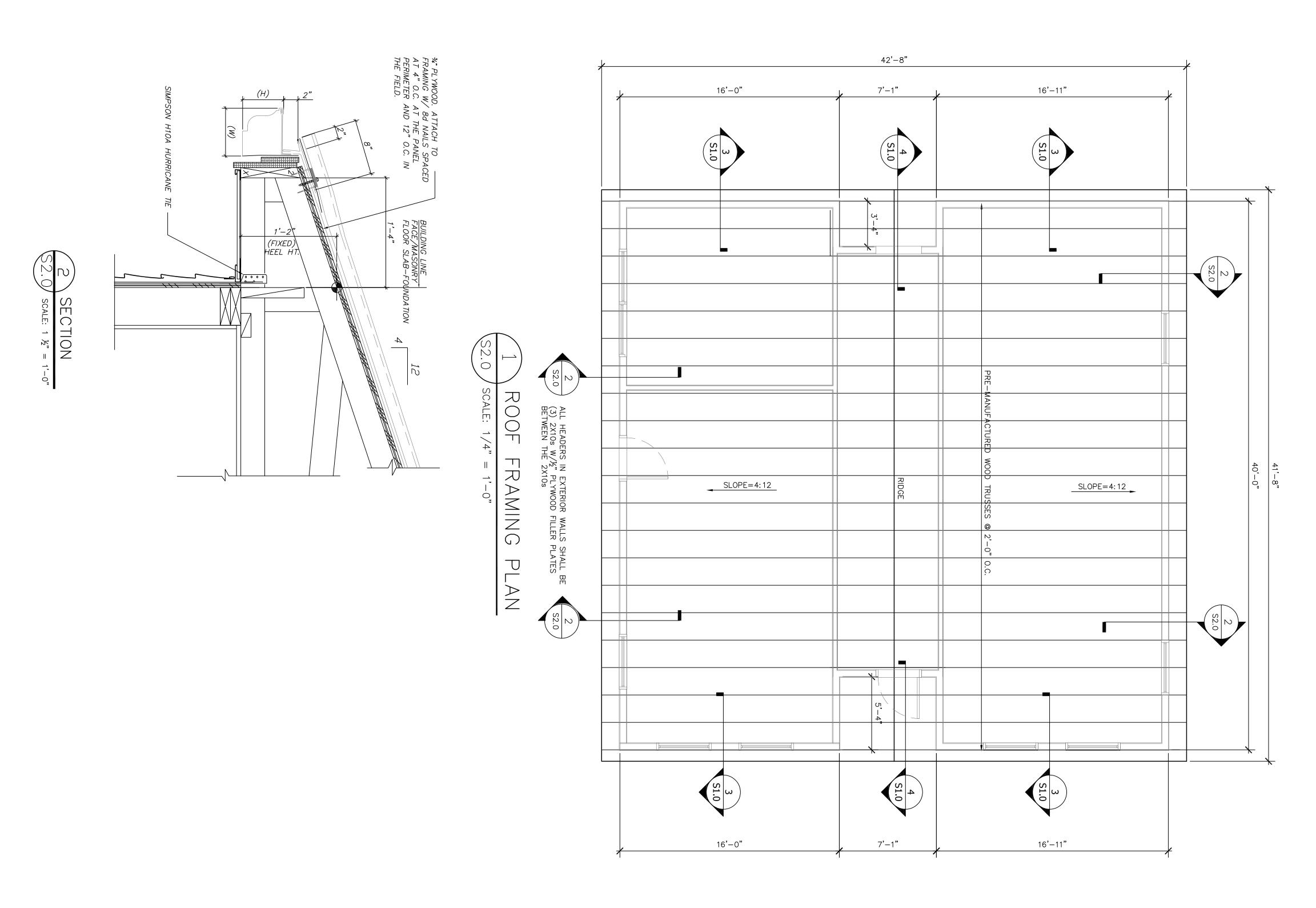
150 PSF

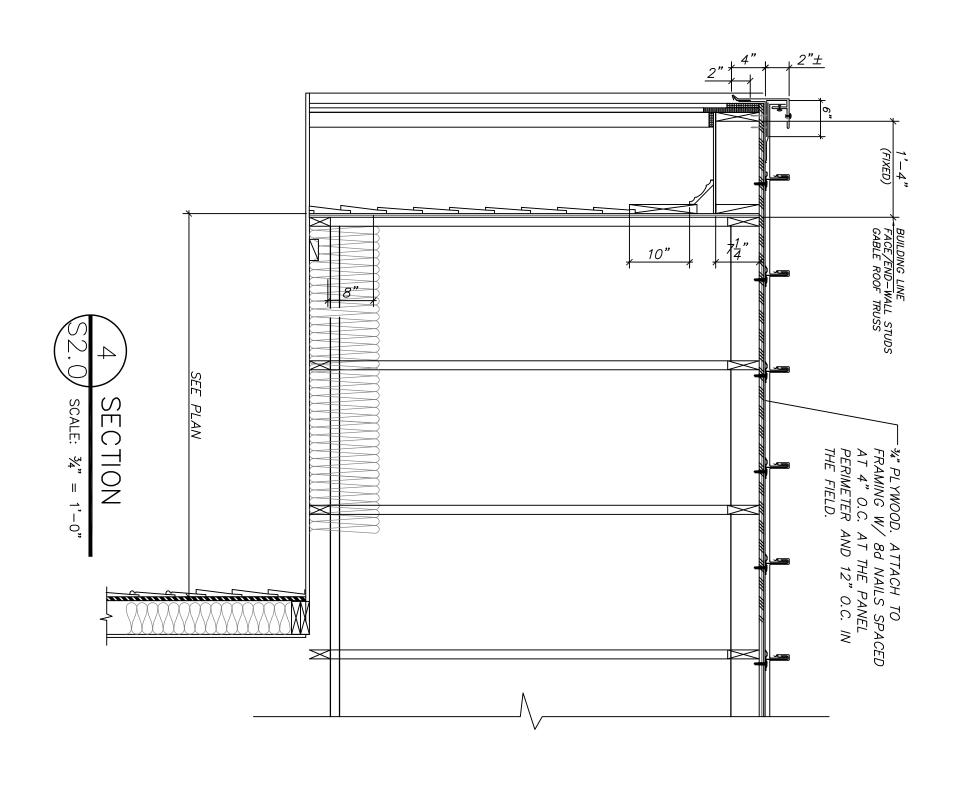
902 PINE DROVE DRIVE WILMINGTON, NC 28409 PHONE: (910) 794-3070 FAX: (910) 794-3090 DT PROJECT NO. 21038 FIRM LICENSE NO.: C-2874 THIS DRAWING IS THE PROPERTY OF DAVID TERKELTOUB AND ASSOCIATES CONSULTING ENGINEERS AND IS NOT TO BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF THE ENGINEER. © 2016

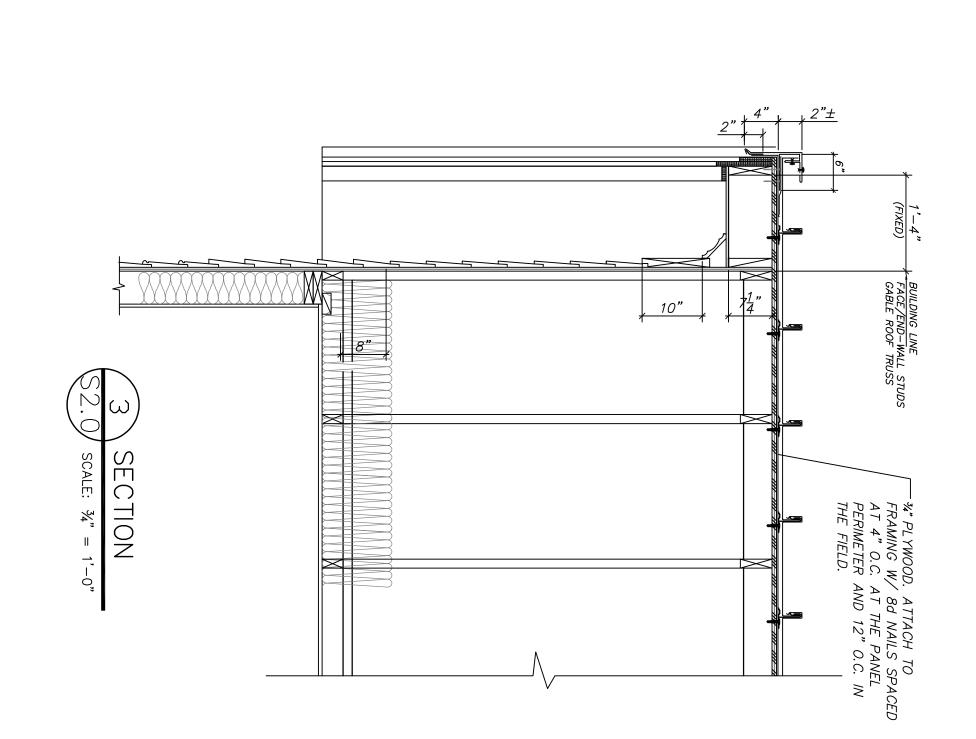
ROOF: LIVE LOAD

20

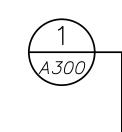
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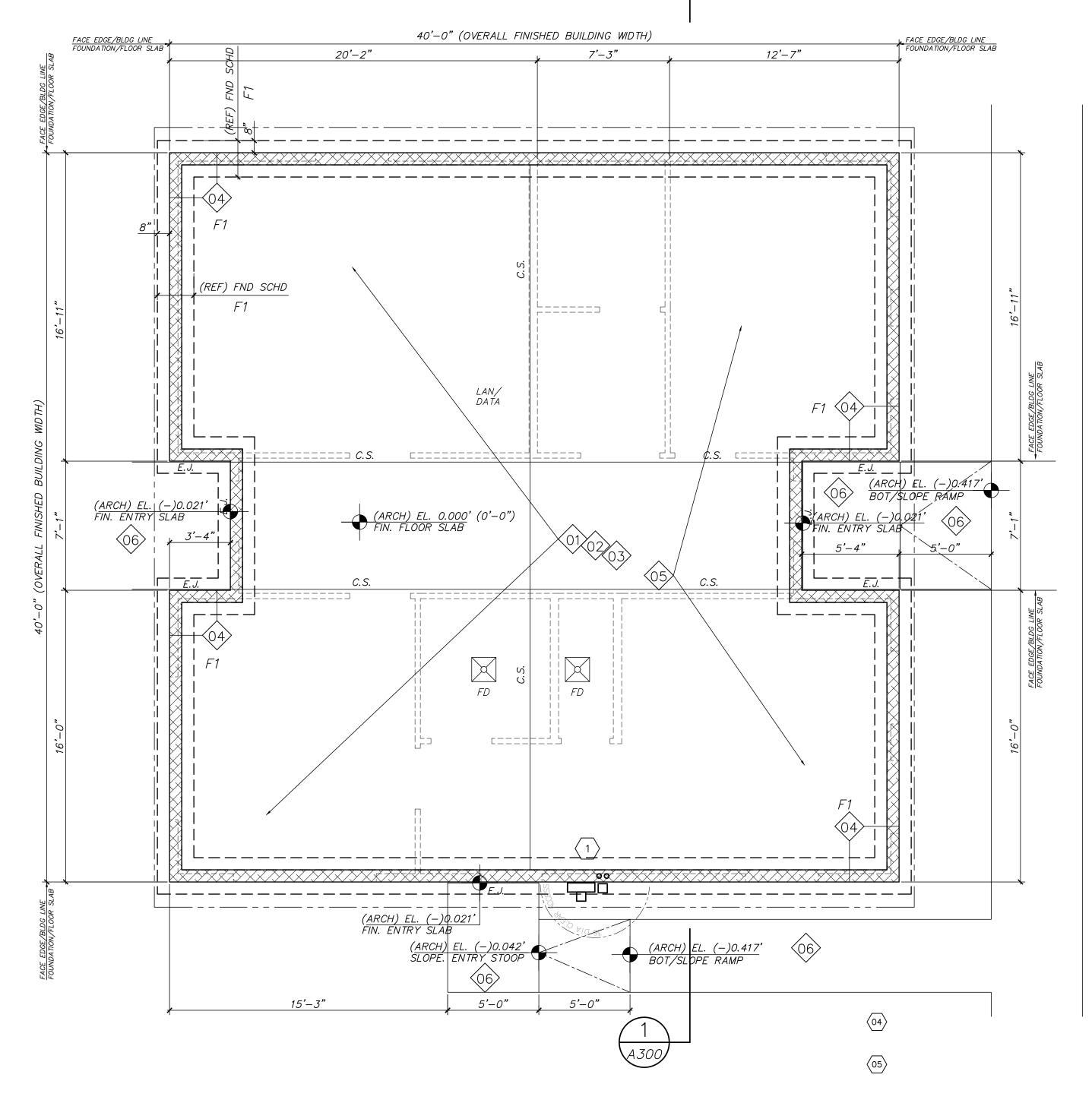






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revision no.  Proposed Dispatch Office  Crete Solut  2544 US 401 N  Lillington, North Carolina 27546  job no.  CRETE/LIL  job status  Contract Documents - Issued f	ions, LLC	Design Elements M. L. Saieed (Michael), AIA, LEED-AP Architect / President  1213 Culbreth Drive, Suite 142 Wilmington, North Carolina 28405 910. 509. 3131	CAROLINATION OF ESSION NOTERINATION TERKELINATION 12-6-2021	DAVID TERKELTOUB AND ASSOCIATES, P.C. CONSULTING ENGINEERS  902 PINE DROVE DRIVE WILMINGTON, NC 28409 PHONE: (910) 794-3070 FAX: (910) 794-3090 DT PROJECT NO. 21038 FIRM LICENSE NO.: C-2874 THIS DRAWING IS THE PROPERTY OF DAVID TERKELTOUB AND ASSOCIATES CONSULTING ENGINEERS AND IS NOT TO BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF THE ENGINEER. © 2016







SCALE: 1/4" = 1'-0"GRAPHIC BAR SCALE (FOOT UNITS)

# GENERAL FOUNDATION PLAN NOTES

REFERENCE ARCHITECTURAL (TYP) WALL SECTIONS (AND IF PROVIDED AS SUPPLYMENT: STRUCTURAL DRAWINGS TAKES PRECEDENCE OVER ARCHITECTURAL

PRE-CONSTUCTION SITE PREP REMOVE REQUIRED LAYERS OF EXISTING TOPSOIL (ORGANIC SOIL) GRADES OF SOFT CLAY AND OTHER UNSUITABLE MATERIALS UNDER ALL FLOOR SLABS, RIBBON SLABS, FOOTINGS, AND 5'-0" BEYOND BUILDING FOOTPRINT EXTERIOR WALLS. REFERENCE GEO-TECHNICAL SOIL ENGINEERING REPORT OF SUBSURFACE INVESTIGATION FOR PROPER SOIL BEARING CONDITIONS FOR RECOMMENDATIONS TO STRUCTURALLY SITE PREP AND CONDITION TO IMPROVE EXISTING GRADES AT DEPTHS (DENSIFY THE SOIL) TO ACHIEVE PROPER SOIL BEARING CAPACITIES AND (IF REQUIRED) SEISMIC RESISTANCE. PREPARED SOILS SHALL BE CLEANED OF ALL VEGETATION AND ORGANIC MATERIAL. TERMITE TREAT BEFORE CONSTRUCTING BUILDING PAD, PERIMETER SLABS AND FOUNDATIONS; GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO REFERENCE STRUCTURAL DRAWINGS AND BUILDING OWNER PROVIDED PROFESSIONAL SOIL ENGINEER'S SUBSURFACE GEO-TECHNICAL SOIL REPORT (OPTIONAL: REMOVED ORGANIC SOILS TO BE STORED AND REUSED FOR LANDSCAPING)

ALL FOUNDATIONS (FOOTINGS) SHALL BEAR ON UNDISTURBED (WITHOUT ORGANIC) SOIL (OR) SELECT FILL CAPABLE OF SUPPORTING A DESIGN BEARING PRESSURE OR 1500 PSF; WHERE THE BOTTOM OF FOUNDATION ELEVATION DOES NOT EXTEND TO SUITABLE UNDISTURBED SUBSOIL, ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND THE BUILDING FOOTPRINT PAD SHALL BE FILLED WITH CLEAN MATERIAL SELECT AND COMPACTED TO 95% DENSITY (COMPACTION PROCEDURE PER ASTM D698 RECOMMENDATIONS) FILL FOR BUILDING PAD SHALL BE TESTED FOR COMPACTION BY A CERTIFIED GEO-TECHNICAL SOIL ENGINEERING TESTING FIRM. TEST SHALL BE CONDUCTED IN AN AREA OF PROPOSED TRENCHED FOOTING, ONE TEST PER 25 LINEAR FEET OF FOOTING. FOOTING SUB GRADE WILL NOT BE ACCEPTABLE UNIT TESTS HAVE BEEN PASSED (OR) GENERAL CONTRACTOR ACCEPTS SURETIES AND RESPONSIBILITIES FOR EXISTING SOIL CONDITIONS TO RESIST BUILDING SETTLEMENT ISSUES.

# GENERAL CONDITIONS AND NOTES

PLAN DIMENSIONS OF INTERIOR WALLS ARE MEASURED FROM FACE TO FACE OF WALL STUD END FACE EDGE AND FACE OF MASONRY, FACE OF FLOOR SLAB/MASONRY FOUNDATION WALL, UNLESS NOTED OTHERWISE; REFERENCE ARCHITECTURAL SHEET A100 FOR DIMENSIONAL LOCATIONS OF WALLS AND PLUMBING FIXTURES LOCATIONS; GENERAL CONTRACTOR SHALL PROVIDE (AND CHECK REFERENCE WITH PROPRIETARY VENDOR SPECIFICATIONS AND SPECIALITY EQUIPMENT DRAWINGS) ALL LAYOUTS (AND UNDER SLAB (COMMON AND SPECIALITY) SERVICES) REQUIRED BEFORE CONSTRUCTION BEGINS

ALL CONCRETE FLOOR SLABS OVER EXCAVATION TRENCHING FOR BUILDING UNDER SLAB OPERATIONAL SERVICES SHALL BEAR ON UNDISTURBED (WITHOUT ORGANIC) SOIL (OR) SELECT FILL CAPABLE OF SUPPORTING A DESIGN BEARING PRESSURE OR 1500 PSF IF GEO-TECHI WHERE BACKFILLING (SUB-GRADE) SOIL IS REQUIRED WITHIN EXCAVATED TRENCHED AREAS THE SUB-GRADE SOIL MATERIAL SHALL BE CLEAN SELECTED AND COMPACTED IN 8-INCH LAYERS TO A (MINIMUM) 95% STANDARD PROTECTOR DRY DENSITY (COMPACTION PROCEDURES SHALL FOLLOW ASTM D698 RECOMMENDATIONS); TEST SHALL BE CONDUCTED IN AN AREA OF PROPOSED TRENCHING, ONE TEST PER 25 LINEAR FEET OF FOOTING. FOOTING SUB GRADE WILL NOT BE ACCEPTABLE UNIT TESTS HAVE BEEN PASSED (OR) GENERAL CONTRACTOR ACCEPTS SURETIES AND RESPONSIBILITIES FOR EXISTING SOIL CONDITIONS TO RESIST BUILDING SETTLEMENT ISSUES.

FINAL SUB-GRADE BACKFILL SHALL BE FINISHED FLUSH AND LEVEL TO EXISTING BASE SOIL (UNDER SLAB) SUB-GRADE AS NOT TO CAUSE ANY UN-INFORMED THICKNESS OF CONCRETE FLOOR SLAB CONSTRUCTION. GENERAL CONTRACTOR ACCEPTS SURETIES AND RESPONSIBILITIES FOR EXISTING SOIL CONDITIONS AND SUB-GRADE SOIL BACKFILL TO RESIST FLOOR SLAB SETTLEMENT ISSUES. (ONLY IF PROVIDED AS A SUPPLEMENT: REFERENCE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION TO TAKE PRECEDENCE)

ALL CONCRETE FOOTINGS, INCLUDING FLOOR (IF PROVIDED CUSTOM COLORED) SLAB-ON-GRADE SHALL OBTAIN A COMPRESSIVE STRENGTH OF (MIN) 3,500 psi AT AN AGE OF 28 DAYS AND A MAXIMUM SLUMP OF 5 INCHES, UNLESS NOTED OTHERWISE. (DO NOT AIR ENTRAIN CONCRETE) (ONLY IF PROVIDED AS A SUPPLEMENT: REFERENCE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION TO TAKE PRECEDENCE)

ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615, GRADE 60 ksi; PLACEMENT AND PROTECTION (AND CLEAN FROM SURFACE RUST) OF STEEL REINFORCING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF A.C.I. 318; WHERE CONTINUOUS REINFORCING BARS ARE REQUIRED THERE SHALL BE A MIN. 36 (X) BAR DIAMETER AT END LAPPED SPLICES

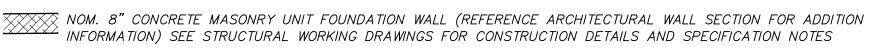
MINIMUM CLEAR COVER ON REINFORCING: PER ACI 318 (LATEST EDITION) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO SOILS: 3" CONCRETE OVER EXPOSED TO SOIL; WELD WIRE FIBER (W.W.F.) MID-POINT (CENTER) PLACEMENT WITHIN CONCRETE FLOOR

ALL CONCRETE MASONRY UNITS (CMU) SHALL BE IN ACCORDANCE OF WITH ASTM C-90 TYPE I GRADE N-1 (FM 1350psi); GROUT FOR MASONRY WALL SHALL COMPLY WITH ASTM C-476, AND SHALL BE PROPORTIONED TO OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2500psi; ALL MORTAR SHALL BE ASTM C-270. TYPE M OR S.

LEGEND THIS SHEET ONLY



- C.S. CONCRETE FLAT SLAB CONTROL JOINT (APPROXIMATE LOCATION) WHERE APPLICABLE PLACE UNDER PARTITION WALLS; PRE-FORMED "T-SHAPE" PLASTIC CRACK CONTROL STRIP (OPTIONAL: SAW CUT CONTROL JOINT; SAW CUT TOP
- E.J. EXPANSION CONSTRUCTION JOINT, (NOM. 1/2" WIDTH) EXTERIOR TRAFFIC GRADE BITUMINOUS MATERIAL; PERIMETER FOUNDATION TO SLAB EDGE; WEATHER TIGHT JOINT SEAL W/ POUR-ABLE SELF LEVELING SEALANT (SIMILAR MFR:
- ( UNDERGROUND PVC CONDUIT STUB UP FOR MULTIPLE CIRCUITED ELECTRICAL JUNCTION BOX(S) (ELECTRICAL OUTLET(S) COMBINATION; REFERENCE ELECTRICAL DRAWINGS; VERIFY LOCATION WITH GENERAL ARRANGEMENT FLOOR PLAN, CAP ALL CONDUITS/PIPING DURING CONSTRUCTION. PVC CONDUIT ONLY AT UNDERGROUND LOCATIONS. (SCHEDULE 20 PVC, UTILIZE 45° BENDS ONLY); COORDINATE FINIAL LOCATIONS WITH BUILDING OWNER.



(TYPICAL; UNLESS NOTED OTHERWISE) CONCRETE MASONRY UNITS SHALL BE IN ACCORDANCE OF WITH ASTM C-90 TYPE I GRADE N-1 (FM 1350psi); GROUT FOR MASONRY WALL SHALL COMPLY WITH ASTM C-476, AND SHALL BE PROPORTIONED TO OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2500psi; ALL MORTAR SHALL BE ASTM C-270. TYPE

- REMOVE REQUIRED LAYERS OF EXISTING (ORGANIC SOIL) FINISHED TOPSOIL GRADE TO VIRGIN GRADE SOIL LEVEL; (IF  $\langle 01 
  angle$  provided as necessary, remove topsoil at depths denoted in geo-technical soil engineering report). PREPARED BUILDING FOOTPRINT BEARING SOIL SHALL BE CLEANED OF ALL VEGETATION AND ORGANIC MATERIAL (OPTIONAL: REMOVED ORGANIC SOILS TO BE STORED AND REUSED FOR LANDSCAPING)
- BACK-FILL SUB-GRADE FOR ELEVATED FLOOR SLAB AND SPREAD FOOTING BEARING; PROVIDE CLEAN SANDY/CLAY SOIL (IF <02> REQUIRED BY GEO-TEC SOIL ENGINEER'S REPORT: #57 AGGREGATE) IN COMPACTED "LIFT GRADE" 8 INCH LAYERS (MIN. 95% COMPACTION (MECHANICAL ACTION) OF EACH LAYER) IF PROVIDED AS NECESSARY GENERAL CONTRACTOR TO REVIEW BUILDING OWNER'S PROVIDED "SOIL ENGINEER'S" REPORT OF SUBSURFACE INVESTIGATION FOR PROPER SOIL BEARING CONDITIONS
- "VAPOR BARRIER (VB)" UNDER CONDITIONED SPACES ONLY (MIN. 15mils) UNDER CONCRETE FLOOR SLAB (OVER CLEAN (03) COMPACTED/ELEVATED GRADE LIFT SUB-BASE SOIL) MOISTURE PROTECTION-PUNCTURE RESISTANT PLASTIC SHEETING (METALLOCENE POLYOLEFIN); PROVIDE MIN. 6" SEAL LAPPED JOINTS WITH TAPED SEAMS INSTALLATION; THRU BARRIER/SLAB PIPE PENETRATIONS (ei. PLUMBING AND ELECTRICAL SERVICES) SHALL BE TAPED (OR) MASTIC (MFR. "STEGO INDUSTRIES-15MIL," ASTM E1745 CLASS A; WITH 0.01 PERMANENCE)
- CONTINUOUS 8" CONCRETE MASONRY UNIT FOUNDATION WALL; REINFORCED W/ #5 HOOKED VERT. DOWELS TO FOOTING, (04) TYPICAL 2'-0" O/C. AND MAX. 16" FROM INSIDE/OUTSIDE BUILDING CORNERS; STAGGER PLACEMENT 24" FROM TRAVERSE BARS; PROVIDE HORZ MASONRY "TRUSS TYPE" REINF. @ 8" VERT. O.C.; CONCRETE GROUT (PEA GRAVEL (MAX. 3/8" DIA) AGGREGATE) FILL ALL CMU CELLS SOLID.
- MIN. 4" THK CONCRETE SLAB ON GRADE; REINFORCED W/ 6x6 W2.1-W2.1 (FLAT SHEETS) W.W.F. ON VAPOR BARRIER OVER CLEAN COMPACTED DRAINAGE SUB-BASE AGGREGATE (CONC Fy 3500 psi; STL. TROWEL SURFACE FINISH)
- EXTERIOR CONCRETE SLAB ON ELEVATE GRADE; NOM. 4" THK'N REINFORCED W/ 6x6 1.4-1.4 W.W.F. OVER CLEAN COMPACTED GRANULAR SUBFILL (CONC 2800 psi; LIGHT BROOM SURFACE FINISH) SITE-VERFIY AND MODIFY TO MATCH EXISTING GRADE CONDITIONS. HORIZONTAL RUNS SHALL NOT EXCEED VERTICAL GRADIENT FOR: WALKWAY 1:20; SLOPE ACCESSIBLE RAMPS: 1:12; MAX. (FIXED) CROSS SLOPE (FROM CENTER) SIDE DRAINAGE 1/4" PER FOOT
- PROPOSED ELECTRICAL POWER AND LIGHTING PANELS; PROVIDE (2) ADDITIONAL UNDER SLAB 2" DIA. PVC SPARE CONDUITS "STUB-UP" (MIN. 6" AFF) AND CAP UNDER ELEC PANEL (SEE ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILED SERVICES & "MD" PNL LOCATIONS)

# PIER AND FOOTING SIZE SCHEDULE

MARK	<u>PIER SIZE</u> Lenght(L) x Width(W)	<u>FOOTING SIZE</u> Length(L) x Width(W) x Depth (D)	BOTTOM FOOT'G <u>REINFORCEMENT</u> Each Way (EW) Short Way (SW) Long Way (LW)	TOP FOOT'G <u>REINFORCEMENT</u> Each Way (EW) Short Way (SW) Long Way (LW)	<u>REMAKS</u>
F1	CONTINUOUS SPREAD FOOTING	CONT x 2'-0"x 10"	(3) No. 4's CONT (OR) (2) No. 5's CONT	N/A	PROVIDE No.3 TRANSVERSE BARS (CROSS REINF TIES) AT 36" O/C
F2	CMU FOUNDATION WALL	N/A	(X) No. N/A (SW) (X) No. N/A (LW)	N/A	REFERENCE DETAIL 1/A700
F3	N/A	N/A	(3) No. 4's CONT (OR) (2) No. 5's CONT	N/A	PROVIDE No.3 TRANSVERSE BARS (CROSS REINF TIES) AT 36" O/C

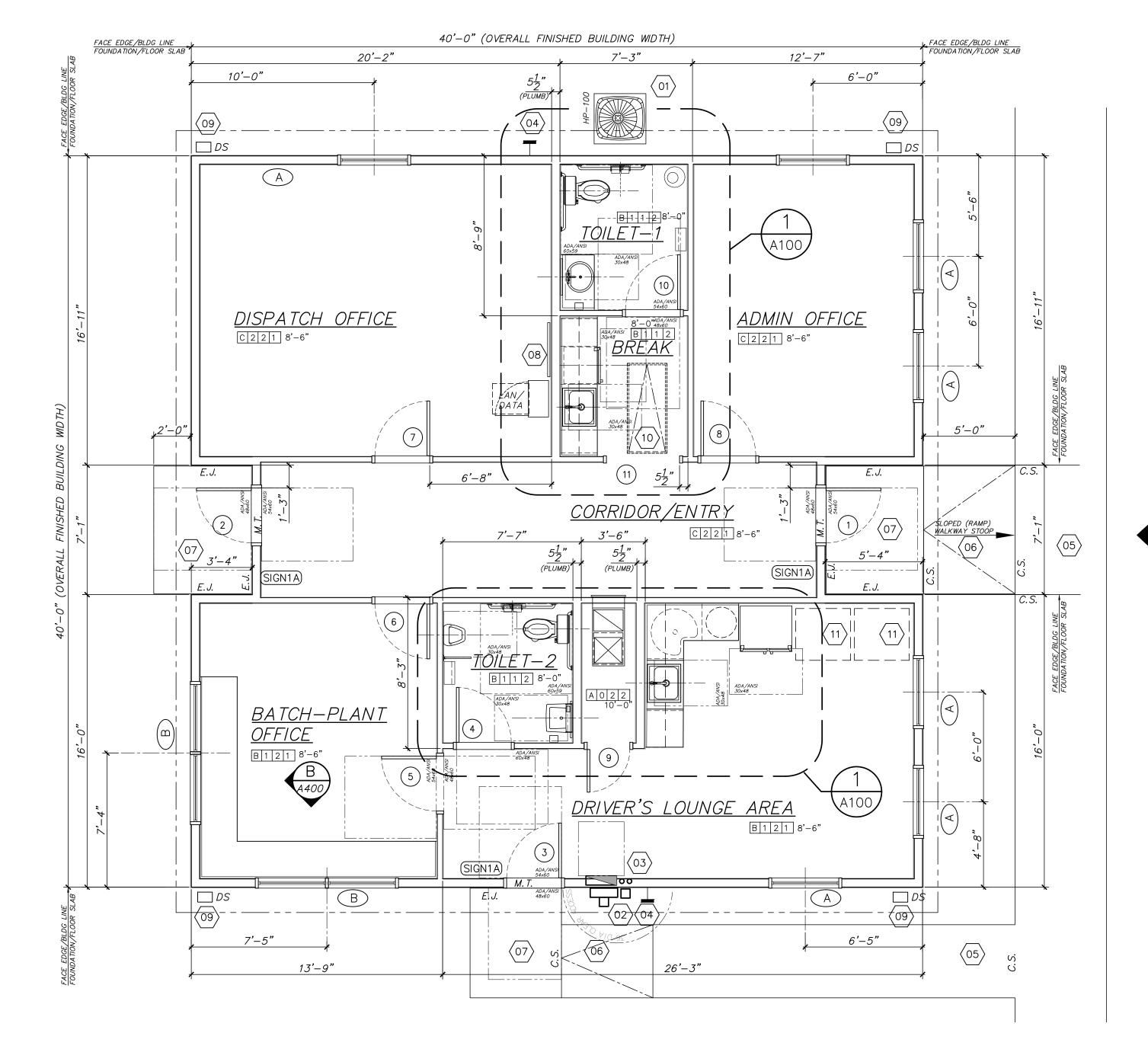






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SCALE: 1/4" = 1'-0"GRAPHIC BAR SCALE (FOOT UNITS) GENERAL KEYNOTES

HEATING/AIR CONDITIONING (HVAC) EXTERIOR COMPRESSOR UNIT W/ ON-GRADE CONCRETE MAINTENANCE PAD (EPOXY ADHESIVE ANCHORED BOLT UNIT IN-PLACE); (MIN. 4" THK CONC PAD); HVAC UNIT ZONED PER SINGLE FLOOR LEVEL (OCCUPIED SPACES); MECHANICAL UNIT ELECTRICAL DISCONNECT SWITCH EXTERIOR SURFACE WALL MOUNTED ABOVE GRADE (MIN. 36"); MIN. HORIZONTAL DISTANCE 36" AWAY FROM ANY UNIT; (REFERENCE MECHANICAL DRAWINGS FOR DETAILS)

ELECTRICAL MAIN DISTRIBUTION (CENTER) PANEL AND METER BASE; APPROXIMATE LOCATION (REFERENCE ELECTRICAL DRAWINGS)

PROPOSED RECESSED INTERIOR WALL MOUNTED ELECTRICAL (POWER AND LIGHTING) PANEL (APPROXIMATE CENTERLINE LOCATION); PROVIDED THRU WALL ABOVE (OR CENTERED) ELECTRICAL PANEL PVC CONDUIT; NOTE PROVIDE: (2) ADDITIONAL UNDER SLAB 2" DIA. PVC SPARE CONDUITS AND (1) 1" PVC SPARE CONDUIT "STUB-UPS" (MIN. 6" A.F.F. AND CAP) UNDER ELECTRICAL PANEL (ELECTRICAL PANEL AMPERAGE AND ITS DESIGNATED SERVICE ASSIGNED SPACES, SHALL BE COORDINATED WITH BUILDING OWNER AND BATCH-PLANT SPECIALIZE ELECTRICAL EQUIPMENT AND VERIFIED WITH ELECTRICAL CONTRACTOR) REFERENCE ELECTRICAL ENGINEER DRAWINGS FOR ADDITIONAL DETAIL INFORMATION)

EXTERIOR HOSE BIB; THRU WALL WALL SECUREMENT; PROVIDE FREEZE PROTECTION

(TYPICAL) ACCESSIBLE CONCRETE (FRONT EGRESS/ENTRY) WALKWAY/PARKING CURB STEP DOWN; (MIN. 5'-0" WIDTH U.N.O.) MIN. 4" THICKNESS EXTERIOR CONCRETE "SLAB/CURB ON GRADE" W/ TURN-DOWN PERIMETER THICKEN EDGES; REINFORCED SLAB/CURB W/ 6x6 1.4-1.4 W.W.F. (MESH SHEETS) OVER CLEAN COMPACTED GRANULAR SUBFILL (CONC 3000 psi), PROVIDE TOP/BOTTOM No.4 NOSING BARS AT TURN-DN EDGES;

FINISHED WALKWAY/CURBING: HIGH POINT (HP) ELEVATION (-) 0.25" DROP FROM FINISHED CONCRETE FLOOR SLAB; LOW POINT (LP) MAX. 6" ELEVATED WALKWAY/CURBING ABOVE FINISH PAVEMENT; SLOPE WALKWAY/CURBING CROSS-SECTION FOR DRAINAGE (MAX. 1/4" IN 12"); LT. BROOM SURFACE TEXTURE FINISH PROVIDED W/ ADEQUATE CONTROL JOINT ON-CENTER MIN. NOMINAL SPACING EQUAL TO WIDTH OF WALKWAY/CURBING; OVERALL WALKWAY "RUN" SHALL NOT EXCEED 5% SLOPE; OFFSET EGRESS/ENTRY STOOP TO PROVIDE MIN. 18" WIDE (FLAT SURFACE) "ARCHITECTURAL BARRIER FREE" FORWARD APPROACH TO DOOR STRIKE SIDE

SEE CIVIL/SITE PLANS FOR "ARCHITECTURAL BARRIER FREE" ACCESSIBLE ACCESS POINTS "CURB CUTS," LOCATIONS AND CONSTRUCTION DETAILS

- (TYP) ACCESSIBLE SLOPED CONCRETE SIDEWALK AND APRON; SLOPE TO FINISHED WALKWAY (OR) FOR DRAINAGE (MAX. NOT TO EXCEED 6'-0" RUN LENGTH @ 1"IN 12" SLOPE; FLUSH TO FINISHED GRADE: MAX. 1/2" ELEVATION GRADE DIFFERENCE) SLOPE CROSS-SXN FOR DRAINAGE (MAX. 1/4" IN 12"); SITE VERIFY/ADJUST FOR WIDTH; REINF. W/ 1.4x1.4-6x6 W.W.F.; LIGHT BROOM TEXTURE FINISH;
- (TYP) ACCESSIBLE CONCRETE STOOP ENTRY/EXIT ACCESS POINT; STOOP (NOMINAL FLAT) FLUSH TO FINISHED BUILDING FLOOR SLAB AT ACCESS POINT; SLOPE TO FINISHED WALKWAY (OR) ACCESSIBLE RAMP AT CROSS-SXN FOR DRAINAGE (MAX. 1/4" IN 12"); (REFERENCE KEYNOTE [05] FOR CONSTRUCTION)
- PROPOSED TELEPHONE BACKBOARD (APPROXIMATE LOCATIONS; SEE PLAN) FOR EQUIPMENT SERVICE; MIN. 24"(W)x48"(H)-3/4"; SURFACE WALL MOUNTED (BOTTOM 30" A.F.F.) RATED PLYWOOD (FRTW) BACKER (BLUE) BOARD (UL-LISTED); PROVIDE DOUBLE GANG ELECTRICAL OUTLET (IF NOT DENOTE ON ELECTRICAL DRAWINGS)
- NOM. 12"(W) x 30"(L) PRE-CAST CONCRETE SPLASH (GUARD) BLOCKS; PLACED DIRECTLY UNDER DOWNSPOUT DISCHARGE; LOCATIONS AS DENOTED; (OPTIONAL: DOWNSPOUTS SHALL CONNECT DIRECTLY TO UNDERGROUND STORM DRAINAGE)
- ATTIC ACCESS "CEILING RECESS FOLDING PULL-DOWN" LADDER, ALUM EXTRUDED COMMERCIAL GRADE FRAMING; (MIN. 3001b (10) CAP.) VERIFY R.O. DIMENSION W/PROPRITARY ACCESS STAIR MFR. AND COORDINATE W/ TRUSS VENDOR/SUPPLIER) PROVIDE MIN. 36"X36" CLEAR FLOOR AREA AT PULL-DOWN (RECESS FOLDING NOM. SIZE 22"x54" SITE VERIFY ACCESSIBILITY BEFORE ROUGH OPENING CONSTRUCTION.
- (FUTURE) PROPOSED LOCATION FOR COIN/CURRACY OPERATED VENDING MACHINE (COLD SOFT DRINKS/BOTTLE WATER AND (11) SNACK/CANDY) PROVIDED BY BUILDING OWNER. GENERAL CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICES TO FUTURE INSTALLATION.

# FLOOR PLAN LEGEND

FOR THIS SHEET ONLY!

INDICATES DOOR IDENTIFICATION NUMBER; SEE ARCH SHT A6XX FOR INFORMATION ON NOM. DOOR/FRAME SIZES, DESIGNATION TYPES & HARDWARE

\ INDICATES WINDOW IDENTIFICATION LETTER; REFERENCE SEE SHEET A6XX FOR DETAILED INFORMATION FOR WINDOW FRAME DIMENSIONS AND NOTES

E.J. EXPANSION CONSTRUCTION JOINT, (NOM. 1/2" WIDTH) EXTERIOR TRAFFIC GRADE BITUMINOUS MATERIAL; PERIMETER FOUNDATION TO SLAB EDGE; WEATHER TIGHT JOINT SEAL W/ POUR-ABLE SELF LEVELING SEALANT (SIMILAR MFR: SIKAFLEX)

DESIGNATES FREEZE-PROOF ENCLOSED COMMERCIAL WALL "HOSE BIB" WITH VACUUM BREAKER & "TEE" KEY

PRE-FINISHED NOM. 4x2 DOWN SPOUT (DS) (MIN. 26Ga) FROM CONTINUOUS GEE GUTTER, (MIN. 26Ga); PROVIDE (DS) CONNECTION WALL STRAPS AT EACH 1/3 POINT VERTICAL WALL HEIGHT; PROVIDE EACH W/ PRE-CAST CONCRETE SLASH BLOCK; SURFACE SHEET STORM-WATER DRAINAGE MANAGEMENT SYSTEM, REFERENCE CIVIL SITE DWG'S

C.S. CONCRETE SLAB CONTROL JOINT; TOOLED JOINT

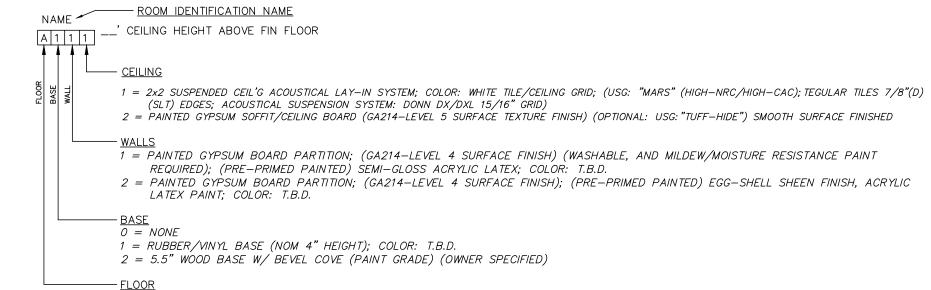
APPROPRIATE ALUMINUM SOLID EXTRUDED TRANSITION STRIPS, JOINT SYSTEM AT FINISHED FLOORING CHANGES FROM ONE MATERIAL TO ANOTHER

DESIGNATES EXTRUDED ALUMINUM FLOOR FINISH FLUSH TRANSITION THRESHOLD; ADAAG/HC "BARRIER FREE" ACCESSIBLE CROSS-OVER (MAX. 1/2" THK'N,)

SIGN—) WALL MOUNTED IDENTIFICATION SIGNAGE (SEE SIGNAGE DETAIL A/N100)

# ROOM FINISH LEGEND

FOR BUILDING OWNER REVIEWS AND FINAL APPROVALS, GENERAL CONTRACTOR SHALL PROVIDE SELECTED FINISHING (FLOOR, WALL & CEILING AND RESTROOM ACCESSORIES) MATERIALS AND COLOR SAMPLES FOR ALL INTERIOR SURFACE FINISHES. ADDITIONAL SUBMITTALS FOR BUILDING OWNER APPROVALS SHALL INCLUDE ELECTRICAL LIGHTING AND PLUMBING FIXTURES AND MECHANICAL APPLIANCES FROM PROPRIETARY VENDORS.

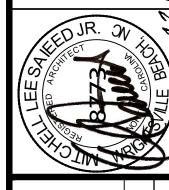


A = SEALED CONCRETE FINISH; MULI-APPLIED "PENETRATING" CONCRETE MOISTURE BARRIER SEALER (PROPRIETARY MFR.: "AQUAFIN INC." B = 12"x12" VINYL COMPOSITE TILE (OWNER SPECIFIED) $C = 24" \times 24"$  (OR)  $12" \times 36"$  COMPOSITE CARPET TILE; DIRECT GLUED-DOWN (FLEECE BACKER (OR) NEOPRENE FOAM BACKER)

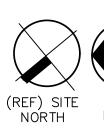
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PROPOSED REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"GRAPHIC BAR SCALE (FOOT UNITS)

# REFLECTED SUSPENDED CEILING NOTES

REFERENCE ELECTRICAL AND MECHANICAL DRAWINGS FOR 2x2 FINISHED CEILING GRID LAYOUTS WITH SPECIFIED LIGHTING FIXTURE TYPES AND ACTUAL MECHANICAL (SUPPLY AND RETURN) DIFFUSERS CONFIGURATIONS.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO SITE VERIFY ALL OVERHEAD EXISTING CONDITIONS (STRUCTURAL WOOD FRAMING, AND MECHANICAL DUCTWORK SYSTEM, BUT NOT LIMITED TO), FOR ALL THEIR LOCATIONS OF VERTICAL HEIGHTS ABOVE FINISHED FLOOR, AND CONFIRMING THAT THE PROPOSED FINISHED CEILING ASSEMBLIES ARE BUILD—ABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ISSUES, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE LEASE TENANT OWNER (OR) DESIGNER BEFORE PROCEEDING WITH CONSTRUCTION IN QUESTION.

POSITION 2x2 LAY—IN GRID ASSEMBLY TO PROVIDE THE OPTIMUM USAGE OF FULL TILES WITH MINIMUM REQUIRED FIELD CUTTING TO FIT. "ABSOLUTELY NO CEILING TILE SLIVERS ALLOWED" WHERE PERIMETER 2x2 GRID LAYOUT MEETS HEAD WALLS, THE MIN. ALLOWED FINISHED TILE WIDTH SHALL NOT BE LESS THAN 6". CONTRACTOR SHALL MODIFY ONLY ADJACENT PERIMETER 2x2 GRIDS INTO 2x4 GRIDS TO ELIMINATE TILE SLIVERS. (CONTRACTOR SHALL ORDER AN EXTRA BOX (10 PERCENT) MATCHING CEILING TILES AS NECESSARY FOR DAMAGE REPLACEMENTS)

(BUILDING OWNER) SHALL SPECIFY SELECTED LIGHTING FIXTURE ARCHITECTURAL STYLE/TYPES (ELECTRICAL DRAWING DENOTING ONLY RECOMMENDED FIXTURE STYLE/TYPE); GENERAL CONTRACTOR SHALL PROVIDE (UNLESS NOTED OTHERWISE); REFERENCE ELECTRICAL DRAWINGS FOR ALLOWABLE WATTAGE PER FIXTURE AS DENOTED AND REQUIRED TO MEET NCBC/ECC-2012

GENERAL CONTRACTOR SHALL REFERENCE PROPRIETARY VENDOR'S SUSPENDED CEILING FRAMING ASSEMBLY SYSTEM FOR APPROPRIATE STANDARD SUSPENSION REQUIRED OF HANGERS AND "SEISMIC" DIAGONAL SPLAY WIRES (GAUGE & O/C SPACING) AT FRAMING GRID INTERSECTIONS AND LIGHTING FIXTURE CORNERS (AND IF APPLICABLE) ADDITION ALTERNATING SPLAYS AT SUSPENDED FRAMING SYSTEM (CROSS MEMBERS AND RUNNERS) WHERE LOCATED ABOVE PARTITION WALLS CONTACTING CEILING

# CEILING LEGEND

-SIMILAR REFERENCE ENLARGE DETAIL

-VERTICAL HANGER GALV WIRES (12

—(TYP) CEILING SUSPENSION

GA.) AT 48" O/C EACH WAY

SYSTEM ASSEMBLY

FIRST LINE OF BRACING 4'-0" OR

LESS FROM WALL BOUNDARY

NOM. 2x4 LAY-IN SUSPENDED (OR) SURFACE MOUNTED CEILING "LED" LIGHTING FIXTURE; FLAT PANEL GASKET DIFFUSING LENS (REFERENCE: ELECTRICAL DWGS FOR ADD'N DETAILED INFOR'N) RECESS DOWNLIGHT "LAY-IN" SUSPENDED CEILING GIRD FIXTURE; (REFERENCE: ELECTRICAL DWGS FOR ADD'N

DETAILED INFORMATION) PENDANT LIGHTING FIXTURE (BUILDING OWNER) SHALL SPECIFY AND COORDINATE FINAL LOCATIONS WITH GENERAL

CONTRACTOR (REFERENCE: ELECTRICAL DWGS FOR ADD'N DETAILED INFORMATION) PENDANT LIGHTING FIXTURE (BUILDING OWNER) SHALL SPECIFY AND COORDINATE FINAL LOCATIONS WITH GENERAL

CONTRACTOR (REFERENCE: ELECTRICAL DWGS FOR ADD'N DETAILED INFORMATION) WALL MOUNTED LIGHT FIXTURE: COORDINATE LOCATION CENTERED ABOVE MIRROR

REFLECTED CEILING GRID SYSTEM (RCG), (AND) SOFFIT/BULKHEAD FINISHED HEIGHT ABOVE FINISHED FLOOR (A.F.F)

2X2 SUPPLY AIR DIFFUSER (REFERENCE MECHANICAL DRAWINGS FOR SIZE AND LOCATIONS)

2X2 RETURN AIR DIFFUSER (REFERENCE MECHANICAL DRAWINGS FOR SIZE AND LOCATIONS)  $\overline{\phantom{m}}(TYP)$  2x2 ACOUSTICAL SUSPENDED REFLECTED CEILING GRID SYSTEM ASSEMBLY PLAN (RCP);

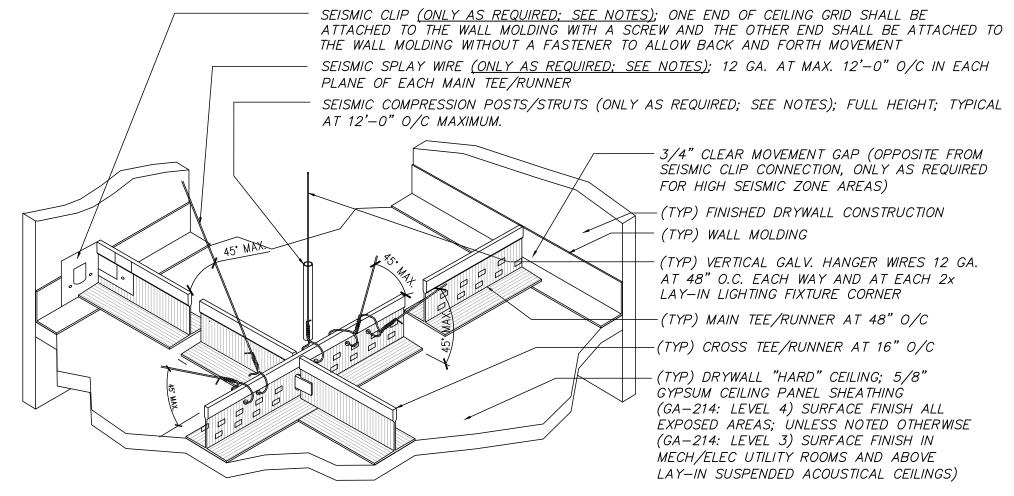
|Q| finished height a.f.f. see plan (unless noted otherwise) \_\_(TYP) CENTER RECESSED LIGHT (OR PENDANT JUNCTION BOX) FIXTURE WITHIN CEILING TILE (OR) WIRE GRILLE/WOOD SLATS SUSPENDED CEILING |FINISH-X|

(TYP) LAY-IN LIGHT FIXTURE WITHIN CEILING GIRD FRAMING; OVERHEAD WIRE SUSPENSION ALL 1 = 2x2 SUSPENDED CEIL'G ACOUSTICAL LAY-IN SYSTEM; COLOR: WHITE TILE/CEILING GRID; (USG: "MARS" (HIGH-NRC/HIGH-CAC); TEGULAR TILES 7/8"(D)

(SLT) EDGES; ACOUSTICAL SUSPENSION SYSTEM: DONN DX/DXL 15/16" GRID) 2 = PAINTED GYPSUM SOFFIT/CEILING BOARD (GA214-LEVEL 5 SURFACE TEXTURE FINISH) (OPTIONAL: USG: "TUFF-HIDE") SMOOTH SURFACE FINISHED

HATCH PATTERN AREAS DESIGNATES SUSPENDED GYPSUM BOARD PANEL (HARD) TEXTURE FINISH CEILING OR BUILT-DOWN SOFFIT/BULKHEAD; FINISHED HEIGHT A.F.F. SEE PLAN (UNLESS NOTED OTHERWISE) ASSEMBLY SYSTEM REFERENCE AS FOLLOWS: (SEE SCHEMATIC DETAILS FOR SIMILAR CONSTRUCTION GUIDANCE) 1. 1/2" GYPSUM CEILING PANEL SHEATHING (GA-214: LEVEL 4) SURFACE FINISH ALL EXPOSED AREAS

2. SUSPENDED METAL CEILING GRID SYSTEM; HEAVY DUTY TEE/RUNNER (24" O/C EACH-WAY) SUPPORTED W/VERTICAL HANGER GALV WIRES (12 GA.) AT 48" O/C EACH WAY



# **GENERAL SUSPENDED CEILING NOTE:**

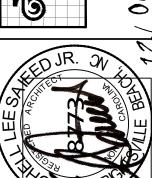
- 1. SEISMIC SPLAY WIRE BRACING AND COMPRESSION POSTS/STRUTS ARE ONLY REQUIRED IN HIGH SEISMIC ZONE AREAS DESIGNED FOR: CATEGORIES D, E, F.
- 2. AREAS SMALLER THAN 1000 SQ. FT. AND WITH WALLS ON FOUR SIDES EXTENDING TO THE STRUCTURE NEED NOT HAVE SEISMIC SPLAY WIRE REINFORCING. BOUNDARY WALLS MUST BE BRACED TOP AND BOTTOM INDEPENDENT OF CEILING TO QUALIFY.
- 3. SEISMIC CLIPS ARE REQUIRED IN SEISMIC DESIGN CATEGORIES D, E AND F.
- 4. NOMINAL 2" HORIZONTAL LEG ON WALL MOLDING IS REQUIRED ONLY IN SEISMIC DESIGN CATEGORIES D, E AND F. WITH CC-ES EVALUATION REPORT, A 7/8" LEG WOULD BE ACCEPTABLE WITH PROPER SEISMIC CLIPS.

TYPICAL FINISHED ACOUSTICAL METAL LAY—IN SUSPENSION SYSTEM ASSEMBLIES SHALL BE SIMILAR AS METAL SUSPENSION SYSTEM WITH GYPSUM PANEL SHEATHING (HARD CEILINGS)



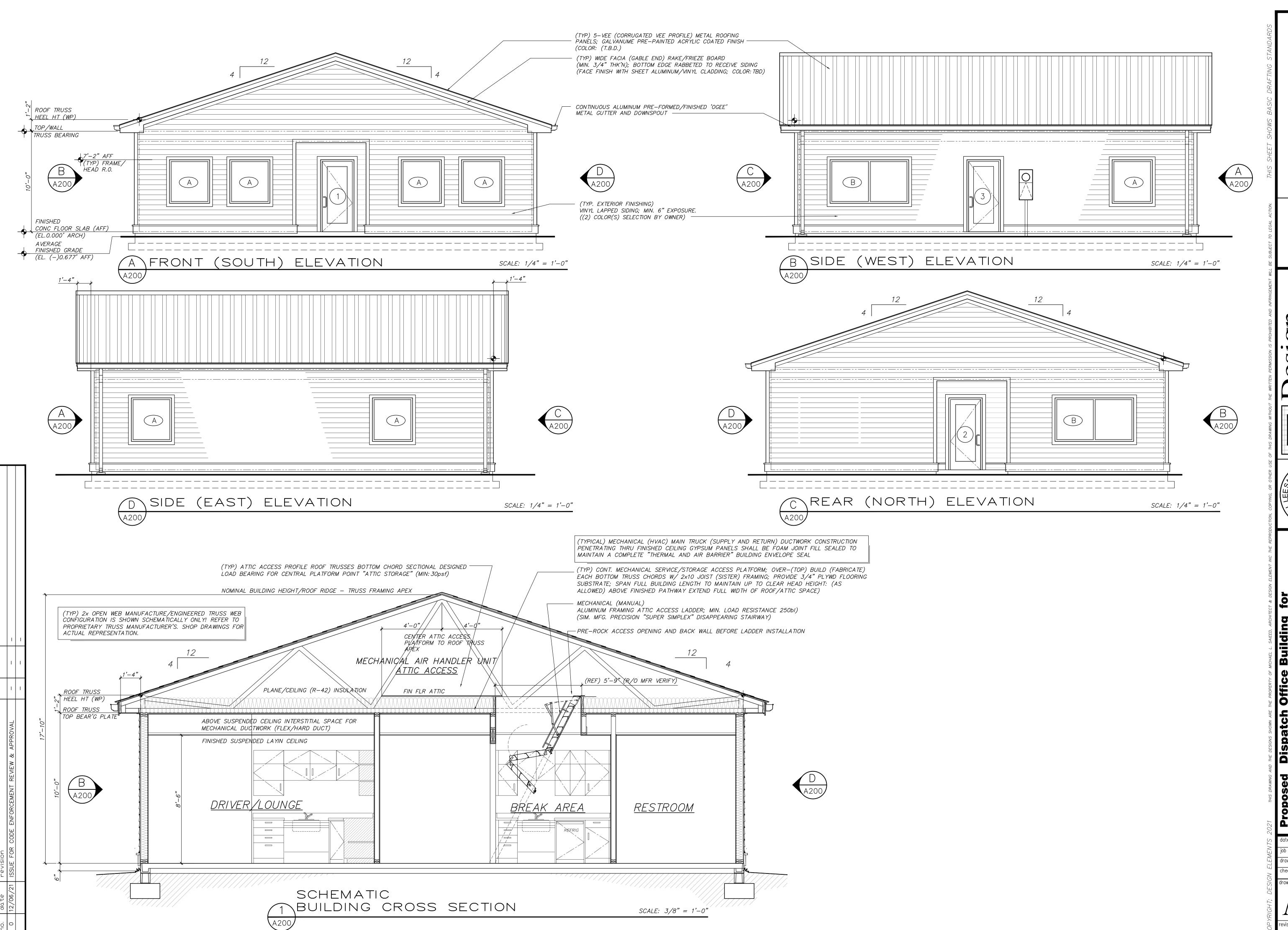
NOT TO SCALE



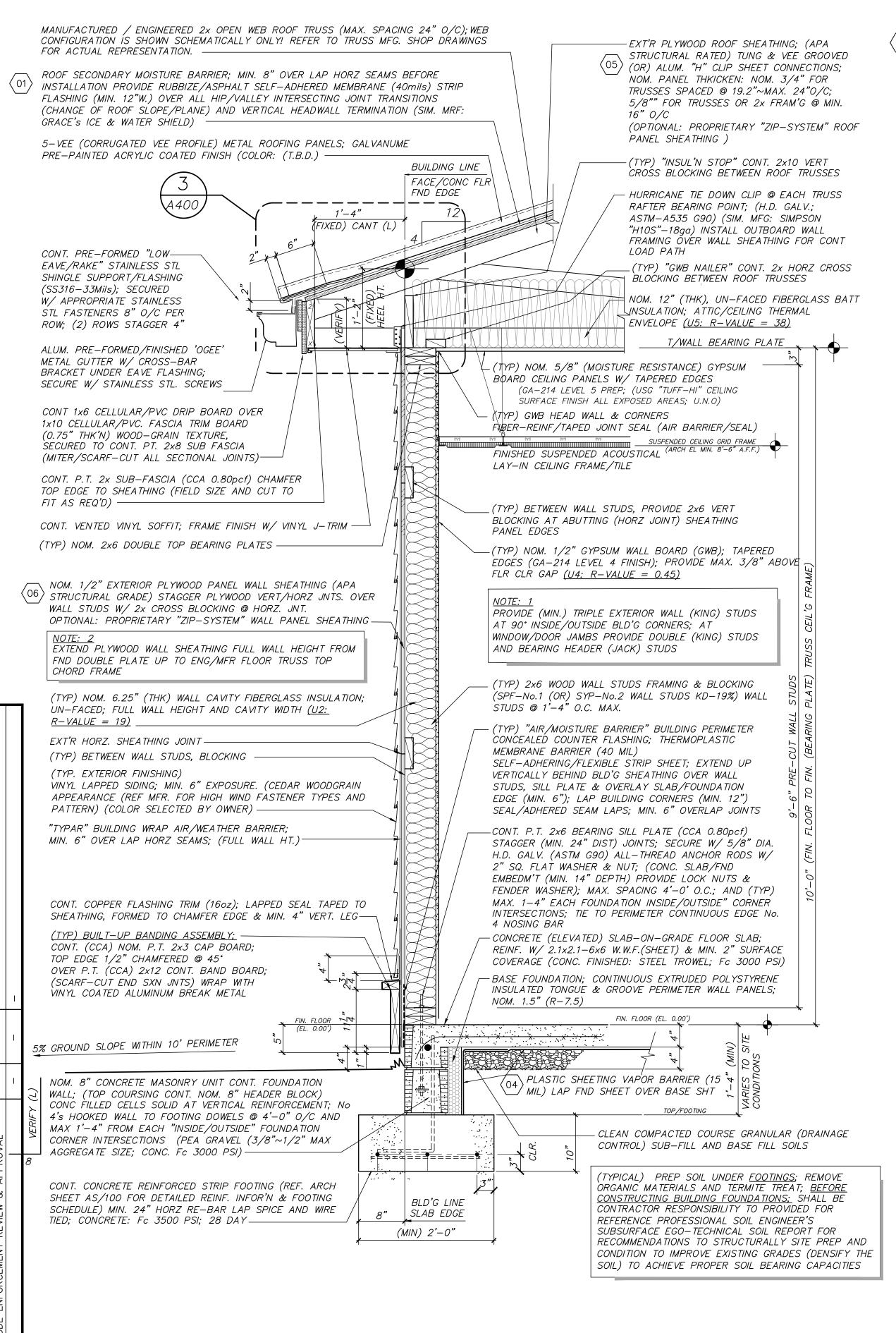


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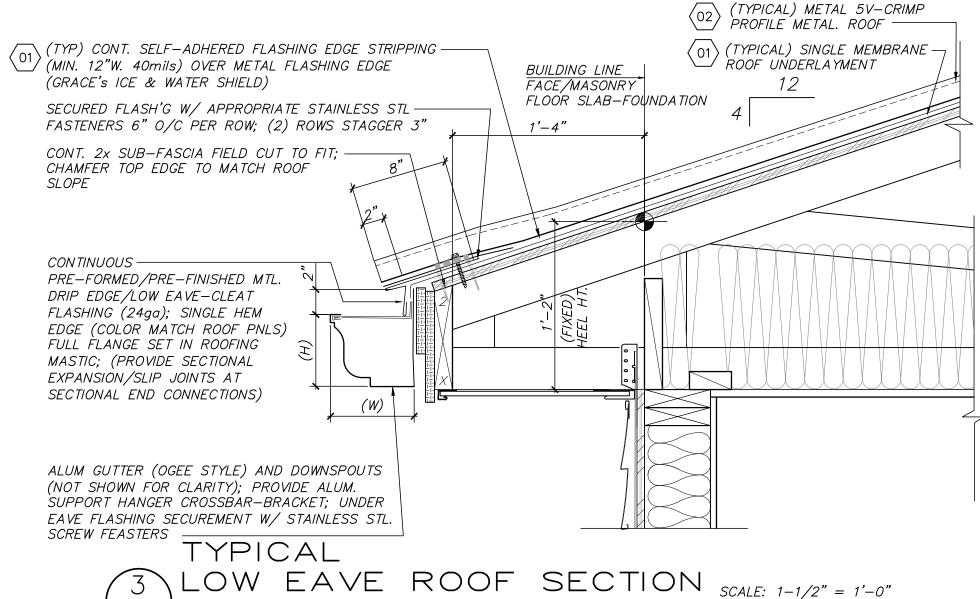


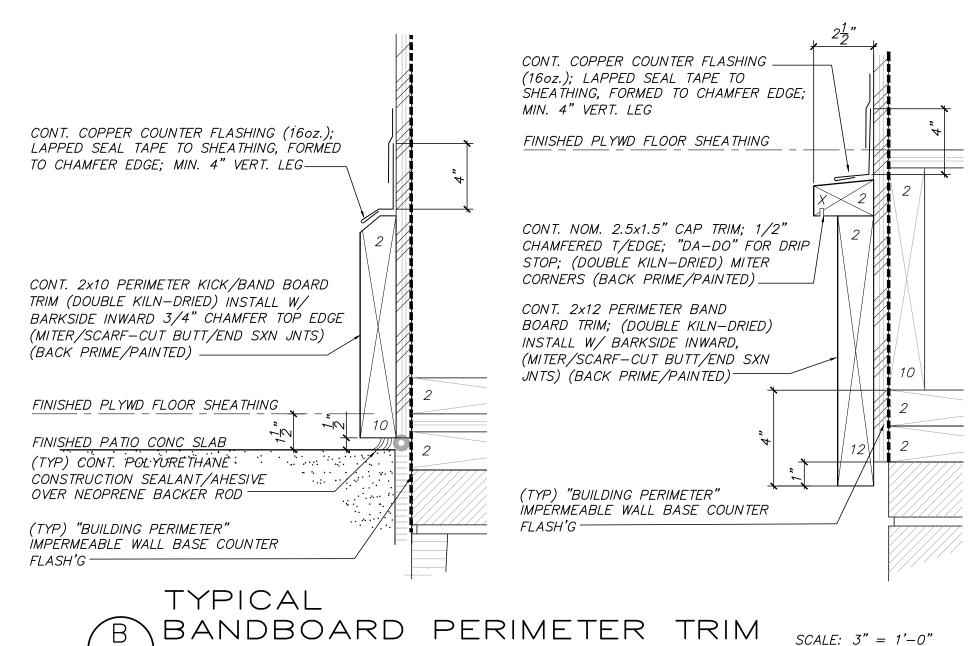
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YPICAL WALL SECTION

SCALE: 1" = 1'-0"





GENERAL KEYNOTES

ROOF MEMBRANE UNDERLAYMENT, "ROOF SECONDARY WATER-BARRIER" (MIN. (+)40mil ); O1 SINGLE PLY MYLAR SURFACE FINISHED SELF-ADHERED, RUBBERIZED ASPHALT, FLEXIBLE SHEETING; LAP EDGES MIN. 6"; PROVIDE ADDITIONAL SINGLE STRIPPING AS COUNTER FLASHING AT ALL HEADWALL INTERSECTIONS AND CHANGE OF SLOPE INTERSECTIONS AT HIPS & VALLEYS; EXTEND MIN. 6" VERT/HORZ OVERLAPS (SIMILAR MFG.: WR GRACE "ICE & WATER SHIELD" W/ OPTIONAL "RIPCORD"

ARCHITECTURAL METAL ROOF; PRE-FINISHED 5V-CRIMP (RIB NOM. 1/2" HT) PANELS MIN.26 (02) GAUGE; (MAX PANEL: 24" WIDE; 45'-0 RECOMMENDED LENGTHS); ACRYLIC COATED GALVALUME; SECURE W/ APPROPRIATE SIZE AND SPACING EXPOSED STAINLESS STL CAP (METAL TO WOOD) FASTENERS W/ NEOPRENE SEAL WASHERS (SIZE PROPERLY (DIAMETER/LENGTH) TO RESIST PANEL EXPANSION/CONTRACTION (AND) FASTENER "BACK-OUT." REFERENCE PROPRIETARY MFG. RECOMMENDATIONS FOR COMPLETE ASSEMBLY DETAILS FOR FULL SYSTEM INSTALLATION W/ (20 YR.) WARRANTIES: INSTALLATION, MATERIAL FINISH AND HIGH WIND UP-LIFT RESISTANCE FOR 130mph WIND SPEED; PROVIDE W/ MFR'S AND CONTRACTOR'S "QUALITY OF ASSURANCE"); RECOMMENDED PANEL FASTENER SPACING: (MAX. 6" O/C LINEAR ROOF PERIMETER "END" PANEL EDGES, MAX. 12" O/C EACH WAY WITHIN 48" SQUARE "IN-FILL" AREAS OF ROOF EDGE CORNERS; MAX. 16" O/C ROOF "IN-FILL" PANEL AREAS.) (UL LISTED "CLASS A" ROOF MATERIAL) COLOR FINISH: COLORFAST GALVALUME.

BUILDING WRAP; "VAPOR PERMEABILITY/MOISTURE BARRIER" SHALL BE INSTALLED EXTERIOR SHEATHING PANELS AND "BACKWRAP" (FLEXI-TAPED FLASHING) THRU ROUGH DOOR AND WINDOW OPENINGS. OVERALL MEMBRANE MATERIAL SHALL NOT HAVE UNSEALED: SEAMS, CUTS, CRACKS PENETRATIONS OR ANY VOIDS IN THE PROPRIETARY PRODUCT; AND VERTICAL AND HORIZONTAL SEAMS SHALL BE OVERLAPPED (MIN. 6") AND CONTINUOUS SEAL TAPED. ALL MECHANICALLY FASTENER SHALL BE SEALED; CONTRACTOR SHALL BE RESPONSIBLE FOR SEAL TAPING ALL JOINT SEAMS W/ PROPRIETARY MEMBRANE TAPE. PROPRIETARY BARRIER MEMBRANE PERFORMANCE: FLEXIBLE AND TEAR RESISTANCE, HIGH BREATHABILITY (VAPOR TRANSMISSION); HIGH AIR PENETRATION PROTECTION; HIGH MOISTURE RESISTANCE (HYDROSTATIC HEAD); (SPECIFIED MFR: "TYPAR" COMMERCIAL BUILDING WRAP)

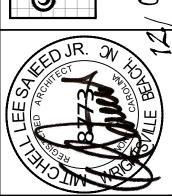
"VAPOR BARRIER (VB)" UNDER CONDITIONED SPACES ONLY (MIN. 15mils) UNDER CONCRETE FLOOR SLAB MOISTURE PROTECTION—PUNCTURE RESISTANT PLASTIC SHEETING (METALLOCENE POLYOLEFIN); PROVIDE MIN. 6" SEAL LAPPED JOINTS WITH TAPED SEAMS INSTALLATION; THRU BARRIER/SLAB PIPE PENETRATIONS (ei. PLUMBING AND ELECTRICAL SERVICES) SHALL BE TAPED (OR) MASTIC (MFR. "STEGO INDUSTRIES-15MIL," ASTM E1745 CLASS A; WITH 0.01 PERMANENCE)

NOM. 5/8" EXTERIOR PLYWOOD PANEL ROOF SHEATHING; (APA STRUCTURAL RATED) NOM. 5/8" EXTERIOR PLYWOOD PANEL ROOF SHEATHING; (APA STRUCTURAL RATED OPTIONAL: PROPRIETARY ROOF PANEL SHEATHING W/ BUILT-IN ENERGY EFFICIENT MOISTURE / VAPOR BARRIER SURFACE FINISH; ALL PANEL JOINTS SHALL BE PRESSURED SEAM-SEALED TAPED (ENGINEERED PRODUCT SIM. HUBER ENG'R WOODS: -"ZIP SYSTEM") PANEL FASTENER TYPES AND SPACING SHALL BE GOVERN BY NCRC-12 FOR COASTAL HAZARD HIGH WIND ZONE (AREAS PRONE TO HURRICANE FORCED MIN. 130 mph)

NOM. 1/2" EXTERIOR PLYWOOD PANEL WALL SHEATHING (APA STRUCTURAL GRADE) STAGGER PLYWOOD VERT/HORZ JNTS. OVER WALL STUDS W/ BLK'G @ HORZ. JNT. OPTIONAL: PROPRIETARY WALL PANEL SHEATHING W/ BUILT—IN ENERGY EFFICIENT MOISTURE/VAPOR BARRIER SURFACE FINISH; ALL PANEL JOINTS SHALL BE PRESSURED SEAM—SEALED TAPED (ENGINEERED PRODUCT SIM. HUBER ENG'R WOODS: —"ZIP SYSTEM") (U1: R-VALUE = 0.63

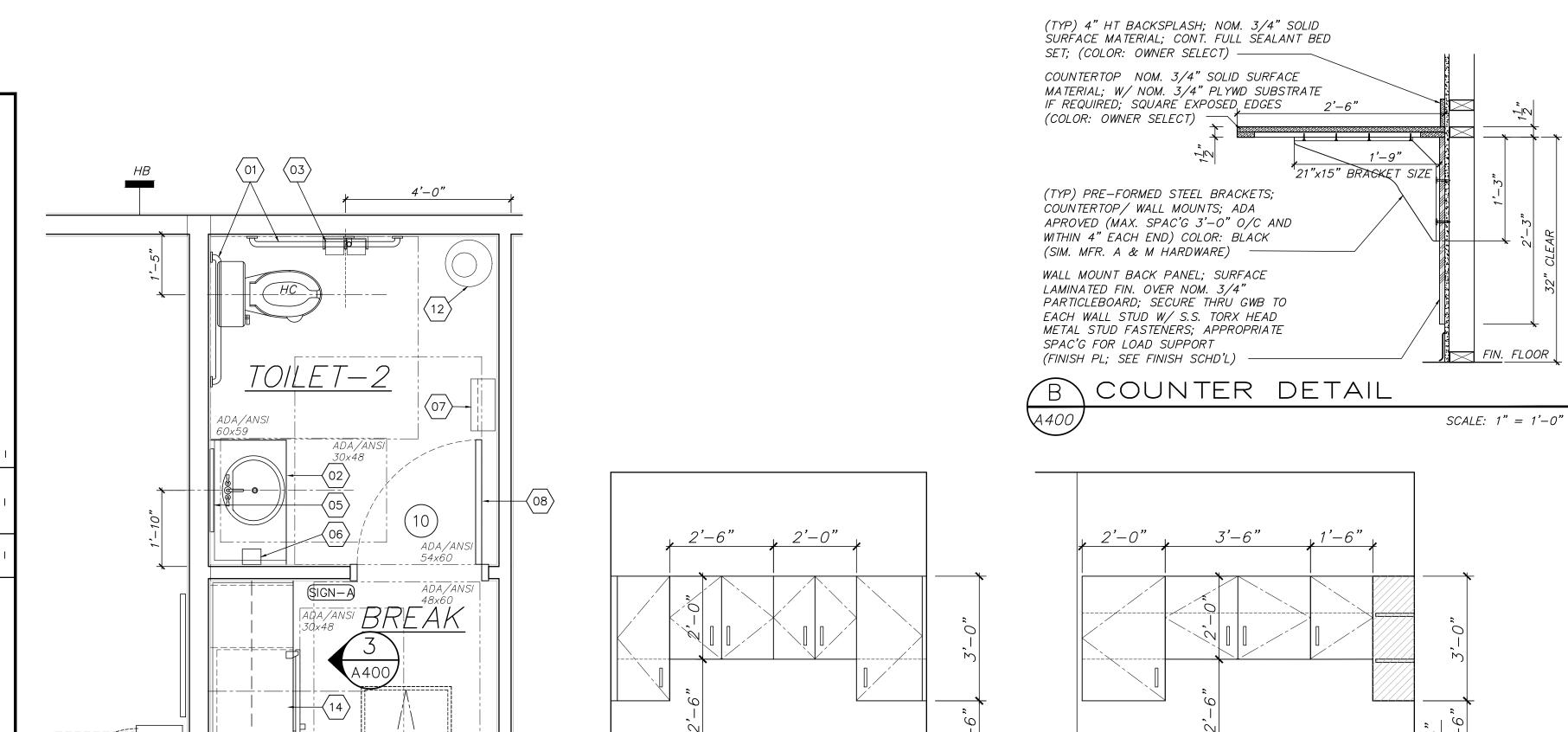
FOR SHEETS A400 AND A401

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PLAN KEYNOTES THIS SHEET ONLY

1 1/2"ø - STAINLESS STEEL HANDRAIL BACK WALL & SIDE WALL MOUNTED "HORIZONTAL GRAB BARS" WITH "VERTICAL SIDE WALL 1 1/2 0 - STAINLESS STEEL MAINDRAIL BACK WALL & SIDE WILL WOOTH TO STAND THE STANDARD HC ACCESSIBILITY DETAILS) SIMILAR MFG: GAMCO PRODUCTS "GRAB BAR"; FINISH: BRUSHED SATIN/TEXTURE GRIP "T"). (REFERENCE STANDARD HC ACCESSIBILITY DETAILS 1/N104)

CUSTOM VANITY UNIT (MIN. 22"(D)); PLASTIC LAMINATE COUNTERTOP AND BACKSPLASH W/ "DROP-IN" LAVATORY; FAUCET FIXTURE SETBACK FROM FRONT RIM (MAX. DIST. 19") PROVIDE ADA COMPLIANT ELECTRONIC SENSOR ACTIVATED FAUCET CONTROLS. (MAX. RIM HT. 34" A.F.F.) SEE GENERAL ACCESSIBILITY REQUIREMENTS (SEE STANDARD HC ACCESSIBILITY DETAILS 1/N100) AND SECTION A/A400 (REF PLUMBING DWG'S FOR ADDITIONAL INFOR'N)

 $\langle 03 \rangle$  TOILET TISSUE (MULTI-ROLL) STAINLESS STL. DISPENSERS; TWO UNITS, SURFACE MOUNT (SIM. MFG: BOBRICK: B-4288)

FLOOR MOUNTED TOILET; TANK TYPE W/ ELONGATED BOWEL AND OPEN-FRONT SEAT WITH INTEGRATED HANDLE; ADA/ANSI ACCESSIBLE; PROVIDE FLUSH VALUE LEVER ON ACCESSIBLE SIDE CLEAR FLOOR AREA (REFERENCE: PLUMBING DWGS)

WALL MOUNTED VANITY MIRROR - (1/4" TEMP/SAFETY) W/ METAL EDGE CENTERED TO SINK (UNLESS NOTED OTHERWISE FULL LENGTH OF VANITY: VERIFY W/ OWNER): (MIN. 24"(W) x 36"(H)). MOUNT BOTTOM EDGE 40" MAX A.F.F.

 $\langle 06 \rangle$  soap sanitizer and lotion dispenser; surface mounted (sim. MFG: Georgia- Pacific; "53253"; color: trans-smoke)

COMBINATION; STAINLESS STL. SURFACE-MOUNT FOLDING PAPER TOWEL DISPENSER (ABOVE) AND WALL WASTE RECEPTACLE (BELOW)  $\subseteq$ / (SIM. MFG: BOBRICK B-3944-BARRIER FREE)

 $\langle 08 \rangle$  (TYP) "BARRIER FREE" ACCESSIBILITY COAT HOOK, MOUNTED (HT. 48" A.F.F.) (SIM. MFG: BOBRICK BRUSHED-NICKEL FINISH)

WALL MOUNTED URINAL; PROVIDE THRU-WALL VERTICAL CARRIAGE (THIN WALL), ADA/HC ACCESSIBLE WHERE NOTED (HC); (REF PLUMBING DWGS)

 $\sqrt{10}$  WALL MOUNTED URINAL/PRIVACY (24" WIDTH x 48" HEIGHT; MOUNT BOTTOM EDGE 12" AFF) PARTITIONS (DESIGN WEIGHT SUPPORT 250 lbs); PROVIDE STAINLESS STEEL PANELS; WALL MOUNTED INSTALLATION WITH CONTINUOUS STAINLESS STEEL WALL MOUNTING BRACKETS (FULL PANEL LENGTH)

WALL-HUNG LAVATORY 19"x 17", VITREOUS CHINA, WITH MATCHING PIPE SHROUD, WHITE; PROVIDE WITH STEEL BRACKET WALL HANGER, INSTALL ADA COMPLIANT ELECTRONIC SENSOR ACTIVATED FAUCET CONTROLS.; FAUCET FIXTURE SETBACK FROM FRONT RIM (MAX. DIST. 19") "UNLESS NOTED OTHERWISE; ) REFERENCE ACCESSIBILITY DETAILS

 $\langle 12 \rangle$  waste receptacle stainless stl. w/ dome-lip; floor free-standing; (sim. mfg: bobrick: b-2300)

13 ) OWNER'S ROUTER/DATA STATION; 19" METAL RACK

14 NOM. 24" UNDERCOUNTER REFRIGERATOR (PROVIDED BY OWNER; INSTALLED BY CONTRACTOR)

NOM. 24"(D)x 36"(H) (UNLESS NOTED OTHERWISE) STANDARD BUILT—IN BASE CABINETS W/ (HP) PLASTIC LAMINATED FINISHES: COUNTER TOP W/ 4"H. BACKSPLASH, FRONT FACE CABINETS W/ DOOR PANELS AND DRAWER; NOM. 12" DEEP WALL CABINETS W/

STAINLESS STEEL (HEAVY GAUGE 304 TYPE; 33mil) SHALLOW BASIN "DROP-IN" KITCHEN SINK, FULL SEALANT BED SET; PROVIDE LEVER TYPE HOT/COLD WATER SUPPLY HANDLES W/ GOOSE NECK FAUCET; (FAUCET MAX. FRONT RIM DIST. 19") PROVIDE CLEAR FRONT OPEN'G FOR ACCESSIBLE TO PERSONS W/ DISABILITIES SEE DETAILS; (REF. PLUMBING FOR ADD'N INFOR'N)

 $\langle_{17}\rangle$  proposed location: (28 gal capacity; unless directed otherwise by owner) electric "Lowboy" water heater (UNDERCOUNTER); PROVIDE DRAINAGE PAN PLUMBING AND PRESSURE RELEASE VALUE "BLOW-OUT". (PLUMBING CONTRACTOR SHALL PROVIDE, ELECTRICAL CONTRACTOR SHALL WIRE FOR FULL POWER SERVICE)

 $\langle 18 \rangle$  RESIDENTIAL STYLE FREE-STANDING (SUPPLIED BY OWNER) REFRIGERATOR/FREEZER W/ ICE MAKER; [MAX. CLR FLOOR SPACE 36"(W)] (CONTRACTOR INSTALL), CONTRACTOR SHALL INSTALL ICE/WATER LINES AND LOCAL WATER SHUT-OFF VALVE.

 $\langle 19 \rangle$  provide dedicated power for proposed vending machine(s) (provided by owner) (reference arch sheet 1/a100)

 $\langle 20 
angle$  ATTIC ACCESS "CEILING RECESS FOLDING PULL-DOWN" LADDER, (REFERENCE ARCH SHEET 1/A100)

# GENERAL ACCESSIBILITY REQUIREMENTS

THE BUILDING OWNER AND GENERAL CONTRACTOR SHALL INSURE THAT THIS FACILITY SHALL BE "BARRIER FREE" ACCESSIBLE TO AND USABLE BY PERSON(S) WITH DISABILITIES. ACCORDING TO THE LATEST EDITION TO THE ICC-IBC/NCBC 2012 CHAPTER 11 & ICC/ANSI A117.1 ACCESSIBILITY CODES REQUIREMENTS OF THE APPLICABLE STANDARDS. THE FOLLOWING IS A PARTIAL LIST (BUT NOT LIMITED TO) OF REQUIREMENTS. (REFERENCE 1/N103 FOR ADDITIONAL DETAILS AND GENERAL NOTES)

1. OPERABLE DOOR HARDWARE SHALL BE MOUNTED BETWEEN 30"(MIN.) AND 42"(MAX.) ABOVE FLOOR OR GROUND LEVEL AND BE LEVER TYPE, DESIGNATED FOR (HC) ACCESSIBLE.

<u> 2. TOILETS ROOMS & ACCESSORIES.</u>

A. LAVATORY TO HAVE LEVER HANDLES, SPRING FAUCETS OR SELF METERING FAUCETS.

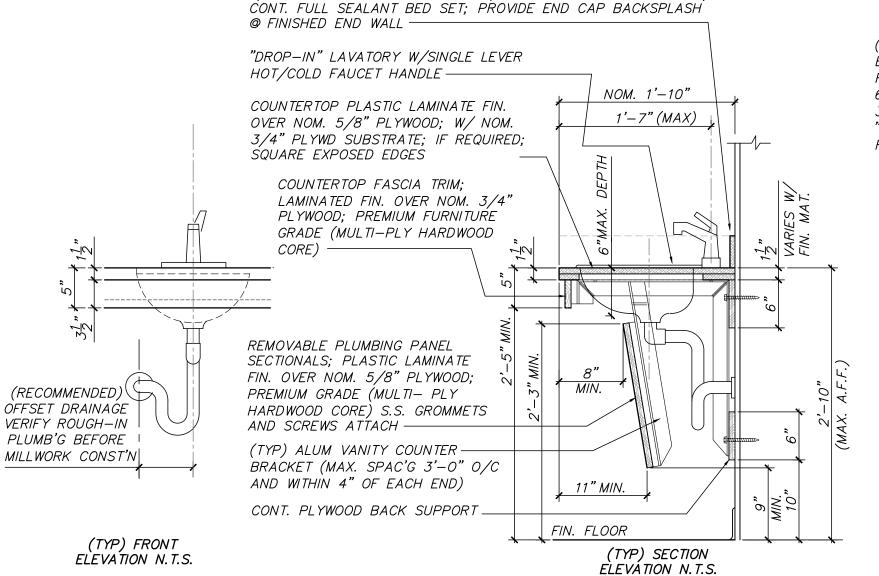
B: A COAT HOOK 48" ABOVE THE FLOOR SHALL BE MOUNTED ON THE BACK SIDE OF THE HANDICAPPED STALL DOOR (or) BACK OF

C. LOCATE THE WATER CLOSET (MIN.)16.6" TO (MAX)17.5" FROM THE CENTER LINE OF THE FIXTURE TO THE FINISHED WALL SURFACE. THE SEAT WILL BE 17" TO 19" ABOVE THE FLOOR TO THE TOP OF SEAT. TANK TYPE FLUSH LEVER SHALL BE POSITION TOWARD (SIDE APPROACH) ACCESSIBLE CLEAR FLOOR AREA FOR SIDE REACH

D. PROVIDE ONE 42" AND ONE 36" LONG x 1 1/2" OUTSIDE DIAMETER PEENED GRAB BARS, 1 1/2" FROM THE WALL, WITH (36) BEHIND TOILET AT 6" FROM THE WALL. AND (42) ADJACENT TO AT 12" FROM THE WALL AND CENTERLINE MEASURED 33"-36" PARALLEL TO AND ABOVE THE FLOOR. PROVIDE ADDITIONAL SIMILAR 18" VERTICAL PULL BAR 1-1/2" ABOVE HORIZONTAL SIDE BAR CENTERLINE MEASURED AVE. 39"-41" FROM REAR WALL.

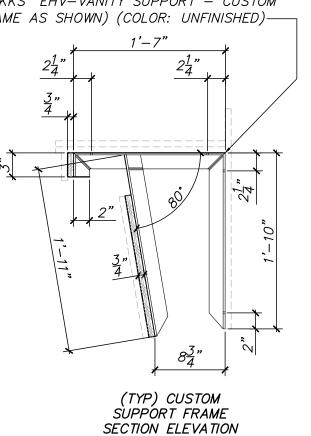
E. LAVATORY TO BE MOUNTED 34"(MAX.) ABOVE THE FINISHED FLOOR TO RIM WITH CLEAR FLOOR KNEE SPACE OF 30" IN WIDTH AND 27" IN CLEAR HEIGHT. (29" CLEAR UNDER FRONT EDGE). EXPOSED WATER/WASTE PLUMBING SHALL BE CLEAR OF ACCESSIBLE FLOOR AREA AND PROTECTED WITH PROPRIETARY VENDOR SUPPLIED "VINYL INSULATED PROTECTION COVERS" SHALL BE PROVIDED TO EACH SERVICE LINE (SIM. MFG. "TRUEBRO")

F. INSTALL MIRROR 40"(MAX.) ABOVE THE FINISHED FLOOR (BOTTOM FIN. EDGE) AND (72" TOP FIN. EDGE).



(TYP) 4" HT BACKSPLASH; PLASTIC LAMINATE FIN. OVER NOM. 5/8" PLYWOOD; PREMIUM GRADE (MULTI- PLY HARDWOOD CORE),

> (TYP) ALUMINUM VANITY COUNTER SUPPORT BRACKET; WT2x2 EXTRUDED "TEE" SECTIONAL FRAME W/ WELDED MITERED CORNERS; (ALUM. 6063-T3); PROVIDE EXPOSED FLANGES W/ NOM. 3/4"x2" CONT. WOODEN STRIPS; (SIM. MFR. "RAKKS" EHV-VANITY SUPPORT - CUSTOM FRAME AS SHOWN) (COLOR: UNFINISHED)-



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ACCESSIBLE VANITY SECTION

ENLARGED RESTROOM AND BREAK PLAN

**15** 

SCALE: 1/2" = 1'-0"

ENLARGED BREAK ELEVATION

LOUNGE ELEVATION SCALE: 1/2" = 1'-0"

ENLARGED

SCALE: 1" = 1'-0"

N. T. S.

					DOOR	AND	FRAME	SCH	IEDULE			
				DC	OR				FRAME			
DOOR			OPENING						DETAILS	HDW	REMARKS	DOOR
NO.	SPACE	WIDTH	HGT.	THK.	MAT'L.	TYPE	GLAZING	MAT <b>'</b> L.	HEAD JAMB SILL	SET	NOTE 1 & 2	NO.
EXTERIOR DOORS - ALL UNITS											<u> </u>	
	HOLLOW METAL											
1	ENTRY	3'-0"	7'-0"	1-3/4"	I-HM	Α	FULL	CLAD	1/A601 (ACCESSIBLE SILL)	_	Exterior Outswing Door	1
2	ENTRY	3'-0"	7'-0"	1-3/4"	I-HM	Α	FULL	CLAD	1/A601 (ACCESSIBLE SILL)	_	Exterior Outswing Door	2
3	DRIVER LOUNGE	3'-0"	7'-0"	1-3/4"	I-HM	Α	FULL	CLAD	1/A601 (ACCESSIBLE SILL)	_	Exterior Outswing Door	3
INTERIO		INITS										
4	TOILET	3'-0"	7'-0"	1-3/4"	MDF	В		НМ				4
5	BATCH OFFICE	3'-0"	7'-0"	1-3/4"	MDF	В		НМ				5
6	BATCH OFFICE	3'-0"	7'-0"	1-3/4"	MDF	В		НМ				6
7	DISPATCH OFFICE	3'-0"	7'-0"	1-3/4"	MDF	В		НМ				7
8	ADMIN OFFICE	3'-0"	7'-0"	1-3/4"	MDF	В		НМ				8
9	UTILITY	2'-4"	7'-0"	1-3/4"	MDF	В		НМ				9
10	TOILET	3'-0"	7'-0"	1-3/4"	MDF	В		НМ				10
11	BREAK	4'-0"	7'-0"		MDF			НМ			Cased Opening	11
MATERIAL LEGEND:  ALUM — ALUMINUM STOREFRONT  SCW — SOLID CORE WOOD  HM — HOLLOW METAL  I—HM — INSULATED HOLLOW METAL  WD — WOOD  PLAS — POLYVINYL REINF HOLLOW CORE  FRC — FIBERGLASS COMPOSITE OSB CORE  MDF — MEDIUM DENSITY FIBERGLASS  GLAZING MATERIAL  FULL TEMPERED SINGLE PANE (FULL LITE)							BLY	W/ THE HING	GE SIDE 5" RAMES	DOOR STOPS ON ALL DOORS MOU OR LESS FROM A PERPENDICULAR		

# ABBREVIATED DOOR HARDWARE NOTES & SCHEDULE

OPERABLE DOOR HARDWARE SHALL BE MOUNTED BETWEEN 30"(MIN.) AND 42"(MAX.) ABOVE FLOOR OR GROUND LEVEL AND "ALL" SHALL LEVER STYLE WITH TURN-BACK END RETURN, DESIGNATED FOR ARCHITECTURAL BARRIER FREE ACCESSIBLE. CONTRACTOR SHALL COORDINATE LATCH/LOCKSETS KEYING SCHEDULE WITH BUILDING OWNER BY PROVIDING MASTER AND GRAND MASTER KEYING SYSTEM

DOOR HARDWARE MATERIAL FINISH TYPES SHALL BE STAIN NICKEL PLATED (US26D) OR STAIN STAINLESS STEEL (US32D) AND INSTALLED BY CONTRACTOR. IF NOT DIRECTLY SPECIFIED BY OWNER, CONTRACTOR SHALL PROVIDE. ALL EXTERIOR HARDWARE AND MOVING PARTS SHALL HAVE SALT AIR RESISTANCE (STAINLESS STEEL OR BRASS) MECHANISMS SHALL BE HEAVY DUTY GRADE.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DOOR ASSEMBLY AND HARDWARE IDENTIFICATIONS AND QUANTITIES AS SHOWN ON PLANS. PRIOR TO ORDERING ANY HARDWARE, CONTRACTOR TO SUPPLY OWNER AND DESIGNER WITH SPECS AND CUT SHEETS FOR APPROVAL AND TO COORDINATE WITH DOOR HARDWARE SPECIALIST AN ASSIGNED MASTER KEYING SYSTEM.

# GENERAL FRAME & GLAZING NOTES

EXTERIOR METAL STOREFRONT WINDOW / DOOR AND FRAME SYSTEM ASSEMBLIES, U.N.O.

(TYP) NOM. 4.5" WIDE ALUM. EXTRUDED FIXED "THERMALLY BROKEN" EXTERIOR STOREFRONT WINDOW FRAME SYSTEMS W/ 1" INSULATED GLAZING (FRAME COLOR: "KYNAR" (CONFIRM WITH OWNER) (70% KYNAR PREMIUM PERFORMANCE COATING) FINISHED FRAMES (AAMA 2605; CLASS 1 611—CURRENT EDITION); GLAZING: PPG/SOLARBAN 60 CLEAR+CLEAR; TINTED, LOW—E GLASS; SHGC MIN. 0.38);

WINDOW/DOOR SYSTEM (FRAM'G-GLAZ'G) SHALL BE DESIGN PRESSURE (DP) WIND RATED FOR ITS GEOGRAPHICAL LOCATION; WINDOW INSTALLER SHALL BE RESPONSIBLE FOR ADEQUATELY USING APPROPRIATE FASTENER TYPES, SPACING AND VERTICAL FRAME STEEL STRUTS TO RESIST WIND SPEED (130 MPH) DP RATING. BASIS OF DESIGN:

# SAFETY (S) — DESIGNATES IMPACT GLAZING:

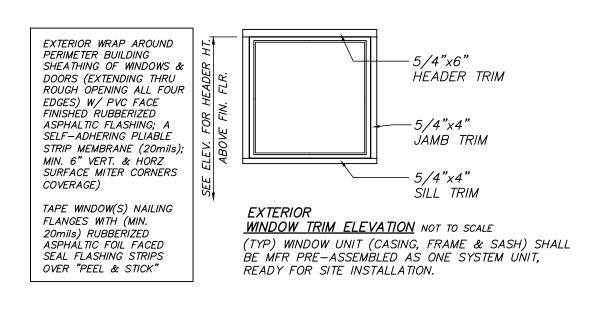
TEMPERED SINGLE PANE (HALF LITE)

TEMERED GLASS NARROW VIEW PAŃEL DOOR VIEWER (180° FIELD OF VIEW MIN)

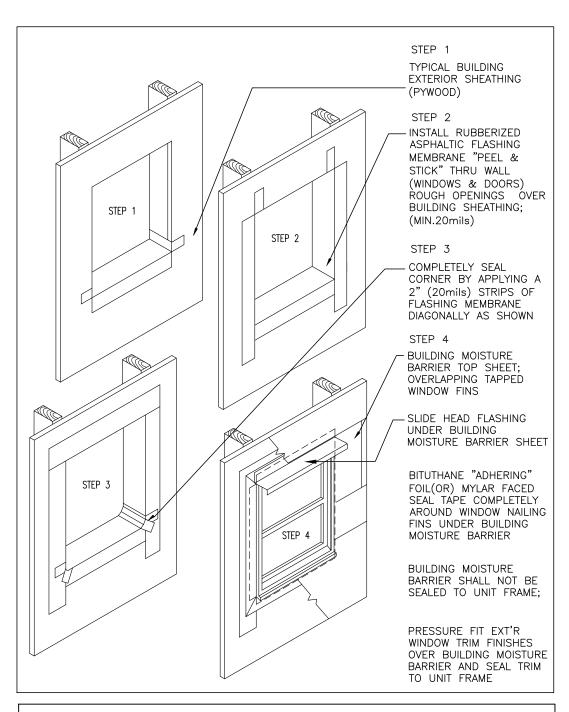
ALL SAFETY GLAZING PRODUCTS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS UNDER CPSC 16 CFR PART 1201 CATEGORY II FOR TEMPERED/SAFETY-IMPACT GLAZING WHEN SUCH PRODUCTS ARE INSTALLED IN CONDITIONS CONSIDERED HAZARDOUS FOR HUMAN IMPACT AND AS REQUIRED UNDER CHAPTER 24 AND RELATED SECTIONS OF THE INTERNATIONAL BUILDING CODE: ICC/NCBC-2012; CHAPTER 24; SECTION 2406

<u>WINDOW/DOOR SUPPLIER SHALL PROVIDE ROUGH-OPENING SIZES, BEFORE FRAMING CONSTRUCTION BEGINS!</u>
WINDOW INSTALLER SHALL BE RESPONSIBLE FOR ADEQUATELY USING APPROPRIATE MOULDING TRIM STOPS, FASTENER TYPES AND SPACING AND FOR LATERAL STABILITY. PROPRIETARY COMMERCIAL WINDOW MFR SPECIFIED: KAWNEER

SYMBOL INDICATES WINDOW/FRAME STYLE AND SIZE; REFERENCE FLOOR PLAN A101 FOR WINDOW/FRAME TYPE SYMBOL LOCATIONS; NOMINAL WINDOW SIZES SHOWN; VERIFY ROUGH OPENING SIZE.

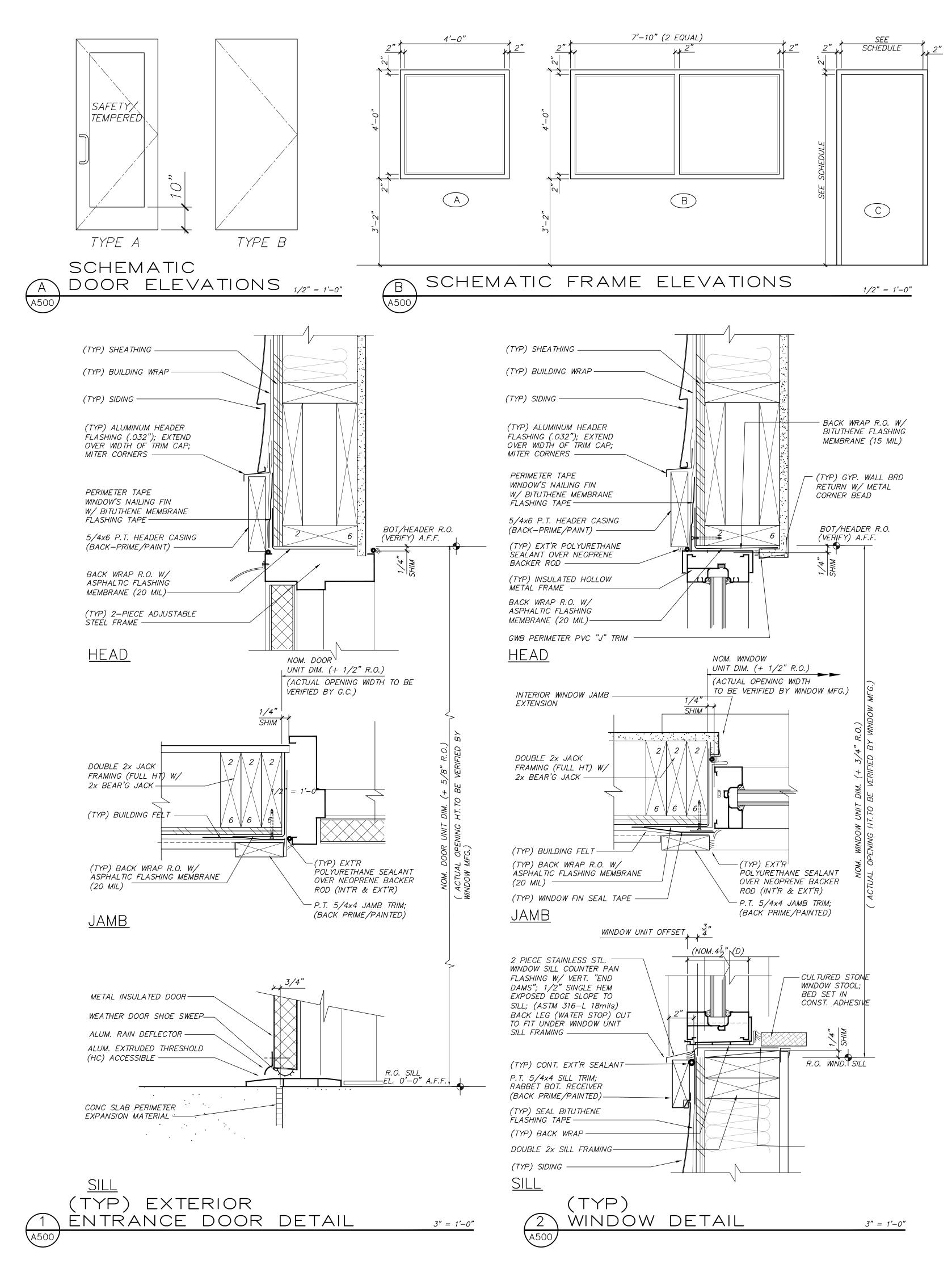






EXTERIOR WRAP AROUND PERIMETER BUILDING SHEATHING OF WINDOWS & DOORS (EXTENDING THRU ROUGH OPENING ALL FOUR EDGES) W/ MYLAR FACE FINISHED RUBBERIZED ASPHALTIC FLASHING; A SELF—ADHERING PLIABLE STRIP MEMBRANE (MIN. 20mils); MIN. 6" VERT. & HORZ SURFACE MITER CORNERS COVERAGE) (SIMILAR PRODUCT FLASHING MFG: W.R.GRACE "ICE AND WATER SHIELD)





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P-#	FIXTURES	SPECIFICATIONS	PIPING	REQUI	RED
' π	TIXTORES	31 2011 10/1110110	WASTE	CW	HW
P-1	WATER CLOSET/ADA FLOOR MOUNTED TANK TYPE - 1.6 GPF	AMERICAN STANDARD "CADET RIGHT HEIGHT" MODEL 2298.012 VITREOUS CHINA TOILET WITH ELONGATED BOWL AND TANK WITH SIDE TRIP LEVER, 16 ½" RIM HEIGHT, 1.6 GPF, 12" ROUGH-IN, BOLT CAPS, COMPLIES WITH ANSI A112.19.2 & A117.1 SEAT: BEMIS/CHURCH DURAGUARD 2100 NSSC ANTI-MICROBIAL HEAVY DUTY WHITE ELONGATED OPEN FRONT SEAT WITH COVER. VALVE: McGUIRE NO. 2166 ¾"X12" FLEX CLOSET SUPPLY WITH STOP.	3"	1/2"	
P-2	URINAL — HANDICAP ¾" TOP SPUD — 1.0 GPF MANUAL FLUSH VALVE	AMERICAN STANDARD "ALLBROOK" MODEL 6541.132 1.0 GPF ¾" TOP SPUD, WHITE VITREOUS CHINA, 2" IPS OUTLET, WALL HANGER. MOUNT RIM 17"AFF TO COMPLY WITH ADA.  VALVE: SLOAN REGAL MODEL 1-186-1-ADA, 1GPF, CHROME FLUSH WITH ADA COMPLIANT HANDLE.	2"	1/2"	
P-3	LAVATORY — WALL MTD. SINGLE LEVER FAUCET ADA	AMERICAN STANDARD "LUCERNE" 0355.012 WALL MTD. WHITE VITREOUS CHINA 20"X18" LAVATORY WITH 4" FAUCET CENTERS.  FAUCET: AMERICAN STANDARD "RELIANT +" MODEL NO. 7385 SINGLE LEVER LAVATORY FAUCET WITH CERAMIC DISC CARTRIDGE, INDEXED METAL LEVER, VANDAL RESISTANT 0.5 GPM AERATOR, %"O.D. COPPER INLETS, ADJUSTABLE HOT LIMIT SAFETY STOP.  SUPPLIES: McGUIRE NO. 165 %"X12" FLEX ANGLE SUPPLY WITH STOP STRAINER: McGUIRE NO. 155-A GRID STRAINER WITH 1 ¼" TAILPIECE.  TRAP AND SUPPLY INSULATION: McGUIRE PREWRAPED PROWRAP INSULATION KIT MODEL NO.2150	1-1/2"	1/2"	1/2"
P-4	LAVATORY — CABINET MTD. SINGLE LEVER FAUCET ADA	AMERICAN STANDARD "AQUALYN" 0476.028 CABINET MTD. WHITE VITREOUS CHINA 20"X17" SELF RIMMING LAVATORY WITH 4" FAUCET CENTERS.  FAUCET: AMERICAN STANDARD "RELIANT +" MODEL NO. 7385 SINGLE LEVER LAVATORY FAUCET WITH CERAMIC DISC CARTRIDGE, INDEXED METAL LEVER, VANDAL RESISTANT 0.5 GPM AERATOR, %"O.D. COPPER INLETS, ADJUSTABLE HOT LIMIT SAFETY STOP.  TRAP AND SUPPLIES: McGUIRE NO. 155WC OFFSET WHEELCHAIR LAVATORY GRID STRAINER WITH 1 ¼"OUTLET. McGUIRE NO. 8902 17 GA 1 ¼"X1 ½" P—TRAP & NIPPLE. McGUIRE NO 2165 ½" IPS X %" FLEX ANGLE SUPPLY WITH STOP.	1-1/2"	1/2"	1/2"
P-5	SINGLE BOWL SINK ADA	JUST MODEL NO. SL-1613-A-GR SINGLE COMPARTMENT SINK.  16"X13", 304 STAINLESS STEEL, 18 GAUGE, 3 ½" FAUCET LEDGE WITH 4 HOLES @ 4" CENTERS.  TRAP AND SUPPLIES: McGUIRE NO 151 CHROME PLATED FORGED BRASS STRAINER WITH 1-½" TAILPIECE, McGUIRE NO. 8912 1 ½" P-TRAP AND NIPPLE. McGUIRE NO. 2165 ANGLE SUPPLIES WITH STOPS. FAUCET: JUST MODEL J1174KS TWO-HANDLE KITCHEN FAUCET. CHROME PLATED BRASS CONSTRUCTION, 6" WRIST BLADE HANDLES, COMPLIES WITH LATEST ADA REQUIREMENTS.	1-1/2"	1/2"	1/2
P-6	ICE/COFFEE MAKER CONNECTION	PROVIDE RECESSED WALL BOX WITH SHUT-OFF VALVE, ROUTE 3/8" SOFT "K" COPPER TO MACHINE CONNECTION.		1/2"	

GENERAL: THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING PLUMBIING CODE. SUBMIT THREE (3) COPIES OF PLUMBING INSPECTION CERTIFICATES TO OWNER. PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY GOVERNING AUTHORITIES FOR WORK DONE UNDER THIS CONTRACT. PROVIDE AND INSTALL ALL SUPPORTS, BRACKETS, MATERIALS AND LABOR AS REQUIRED FOR A COMPLETE AND ACCEPTABLE PLUMBING SYSTEM. PLUMBING CONTRACTOR SHALL CLEAN ALL PLUMBING FIXTURES AFTER ALL CONSTRUCTION IS COMPLETE.

SOIL, WASTE AND VENT PIPING: WASTE PIPING AND VENT PIPING SHALL BE P.V.C. - D.W.C. SCHEDULE 40 PIPE. HOWEVER, COEXTRUDED PVC "FOAM CORE", ASTM F891, WILL NOT BE ALLOWED.

ALL PENETRATIONS THROUGH NON-COMBUSTIBLE CONSTRUCTION SHALL BE PACKED WITH NON-COMBUSTIBLE FIRE STOPPING MATERIAL.

GRADE WASTE AND VENT PIPING 1/4 INCH PER FOOT WHERE POSSIBLE BUT NOT LESS THAN 1/8 INCH PER FOOT, UNLESS SPECIFICALLY DIRECTED. MAINTAIN INVERTS WHERE INDICATED.

WATER HEATER. ALL FITTINGS SHALL BE SWEAT TYPE WROUGHT COPPER WITH WALL THICKNESS EQUAL TO PIPE WALL THICKNESS. ALL JOINTS SHALL BE MADE WITH 95-5 SOLDER OR SILVABRITE 100. NO SOLDER W/LEAD SHALL BE PERMITTED.

ALL ROUGHING-IN PIPING SHALL BE RUN CONCEALED. ALL EXPOSED WATER LINES, STOPS, TRAP AND WASTE PIPE AT THE FIXTURES SHALL BE CHROME PLATED BRASS, WHICH FOR THE MOST PART WILL BE FURNISHED WITH THE FIXTURES. CHROME PLATED ESCUTCHEON RINGS SHALL BE USED AT EACH POINT OF ENTRANCE OF CHROME PIPING INTO WALLS, FLOORS, OR CEILINGS. EXPOSED WORK SHALL BE UNIFORM IN HEIGHT AND LOCATION FOR EACH TYPE FIXTURE.

WATER PIPING UNDER GROUND OUTSIDE OF BUILDING SHALL BE AT LEAST 24 INCHES BELOW THE FINISHED GRADE SURFACE.

THERMAL INSULATION: ALL HOT AND COLD WATER PIPING INSIDE BUILDING AND IN CRAWL SPACE, ALL HOT WATER PIPING BELOW GRADE, AND COLD WATER PIPING BELOW GRADE WITHIN 3'-0" OF OUTSIDE SHALL BE INSULATED WITH 1" THICK "ARMAFLEX" OR IMCOA WITH SEALED JOINTS OR PREMOLDED FIBERGLASS WITH VAPOR BARRIER JACKET. IN LIEU OF INSULATING WATER PIPING IN HEATED WALLS PIPING MAY BE ENCASED IN BATT INSULATION WITHIN THE WALL OR FLOOR/CEILING.

WATER HEATERS: WATER HEATERS SHALL BE UL LISTED AND COMPLETE WITH ALL STANDARD FEATURES, FIVE (5) YEAR TANK WARRANTY, GLASS-LINED TANK, FOAM INSULATION ON THE TANK, ANODE ROD, AUTOMATIC TEMPERATURE CONTROL, AND AUTOMATIC HIGH-LIMIT SAFETY CUTOFF.

EACH WATER HEATER SHALL BE PROVIDED WITH AN ASME APPROVED PRESSURE AND TEMPERATURE RELIEF VALVE. UNITS NOT INSTALLED WITH VACUUM BREAKER ON COLD WATER SUPPLY LINE SHALL BE PROVIDED WITH AGA CERTIFIED VACUUM RELIEF VALVE PER ANSI Z21.22. A GATE VALVE SHALL BE INSTALLED ON SAME FLOOR AS UNIT AND NO FURTHER THAN 3 FEET ON THE COLD WATER SUPPLY.

EACH WATER HEATER AND ITS INSTALLATION SHALL COMPLY WITH THE LATEST ISSUE AND ALL ADDENDA THERETO OF THE STATE BOILER INSPECTION LAWS AND REGULATIONS. ALL WIRING AND CONTROLS ASSOCIATED WITH THE HEATERS SHALL BE U.L. APPROVED AND IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.

EACH HEATER TANK SHALL BE FITTED WITH APPROVED "DIP" TUBE AND LABELED TO SHOW APPROVAL FOR INSTALLATION.

DISCHARGE RELIEF VALVE FROM EACH WATER HEATER SHALL BE PIPED FULL SIZE TO WITHIN SIX (6) INCHES OF THE FLOOR OVER A FLOOR DRAIN, DRIP PAN OR OTHER SAFE LOCATION. DISCHARGE PIPE SHALL BE SUPPORTED AND ANCHORED SO THAT IT WILL NOT PUT UNDUE STRAIN ON THE RELIEF VALVE BODY OR MOUNTING COUPLING.

SUBMITTAL: THE CONTRACTOR SHALL WITHIN (15) DAYS OF RECEIPT OF PROPERLY SIGNED CONTRACT SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL (5) COPIES OF A LIST OF SUPPLIES AND MANUFACTURER'S MATERIAL AND EQUIPMENT TO BE USED ON THIS PROJECT.

SUBSTITUTION OF MATERIALS AND/OR EQUIPMENT FOR THAT SPECIFIED WILL NOT BE ACCEPTED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO RECEIPT OF BIDS.

GUARANTEE: THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER STATING THE DAY THE GUARANTEE BEGINS AND ENDS.

WATER HEATER (EWH): STATE M/N PCE 20 10MSA, 20 GALLON ELECTRIC WATER HEATER WITH ONE (1) 1500 WATT ELEMENT, 120 VOLT, SINGLE PHASE, WITH 3 YEAR WARRANTY. FURNISH WITH A.S.M.E. APPROVED RELIEF VALVE, WATERGUARD EXPANSION TANK M/N ETC-2X, AND DRAIN PAN. CONNECTION SIZES: C=1 1/4", H=1 1/4"

NOTE: PLANS SHOULD NOT BE SCALED FOR DIMENSIONS. COORDINATE ALL ROUGH IN DIMENSIONS WITH EQUIPMENT TO BE INSTALLED AND DIMENSIONED DRAWINGS INCLUDING KITCHEN EQUIPMENT PLANS IF AVAILIBLE. CONTACT ENGINEER BEFORE CONSTRUCTION WITH ANY CONFLICTS.

PLUMBING GENERAL NOTES:

1. PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR COMPLETE AND PROPERLY FUNCTIONING PLUMBING SYSTEMS. WARRANTY ALL WORK AND ALL MATERIALS, EQUIPMENT AND DEVICES FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE.

2. WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST

CURRENT EDITION OF: A. NORTH CAROLINA PLUMBING CODE

B. ASPE C. UL

THE PURPOSE USED.

D. ANSI E. ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES

3. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO

BE SCALED FOR DIMENSIONS, UNLESS DIMENSIONED. 4. ALL MATERIALS, EQUIPMENT AND DEVICES SHALL, AS A MINIMUM, MEET THE REQUIREMENTS OF UL WHERE UL STANDARDS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR

5. ALL ITEMS SHALL BE NEW, UNLESS NOTED OTHERWISE.

6. ALL MATERIALS AND EQUIPMENT SHALL BE CURRENT PRODUCTS BY MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH

7. COORDINATE LOCATION OF PLUMBING WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.

8. INSTALL ALL EQUIPMENT AND MATERIAL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN PRINTED INSTRUCTIONS AND RECOMMENDATIONS.

9. COORDINATE WITH AND OBTAIN PERMITS AND INSPECTIONS FROM AUTHORITY HAVING JURISDICTION AND INCLUDE ALL FEES IN BID.

10. PROVIDE OWNER WITH CERTIFICATES OF FINAL INSPECTION AND ACCEPTANCE FROM AUTHORITY HAVING JURISDICTION.

11. ALL EQUIPMENT AND PIPE ABOVE CEILING SHALL BE SUPPORTED FROM BUILDING STRUCTURE ABOVE, UNO.

12. WHERE PIPES PENETRATE FIRE RATED BARRIERS (WALLS, FLOORS AND CEILINGS) SEAL OPENING AROUND PIPES AND DUCTWORK WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN THE FIRE RATING OF THE BARRIER. PER NC BUILDING CODE VOLUME 1, PENETRATIONS OF NONRATED WALLS, PARTITIONS AND FLOORS OF NONCOMBUSTIBLE CONSTRUCTION SHALL BE FIRE-STOPPED WITH NONCOMBUSTIBLE MATERIAL.

13. PROVIDE EXPANSION-DEFLECTION JOINTS WHERE PIPE CROSSES BUILDING EXPANSION OR SEISMIC JOINTS.

14. PRIOR TO BIDDING, THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL VISIT THE JOBSITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND SHALL INCLUDE IN HIS BID ALL LABOR, MATERIAL AND OPERATIONS REQUIRED FOR A COMPLETE JOB. (NOTIFY OWNER AND ENGINEER OF ANY DISCREPANCIES PRIOR TO BID.)

15. CLEANOUTS, LINE SIZE, UNO.

16. FLOOR DRAINS, LINE SIZE, UNO.

17. FLOOR DRAINS WITH SUBSCRIPT CO TO HAVE INTEGRAL CLEANOUT AND SHALL BE SIMILAR TO REGULAR FLOOR DRAIN SPECIFIED, UNO.

18. FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH TRAP PRIMERS OR ALTERNATE METHODS AS APPROVED BY AUTHORITY HAVING PLUMBING LEGEND

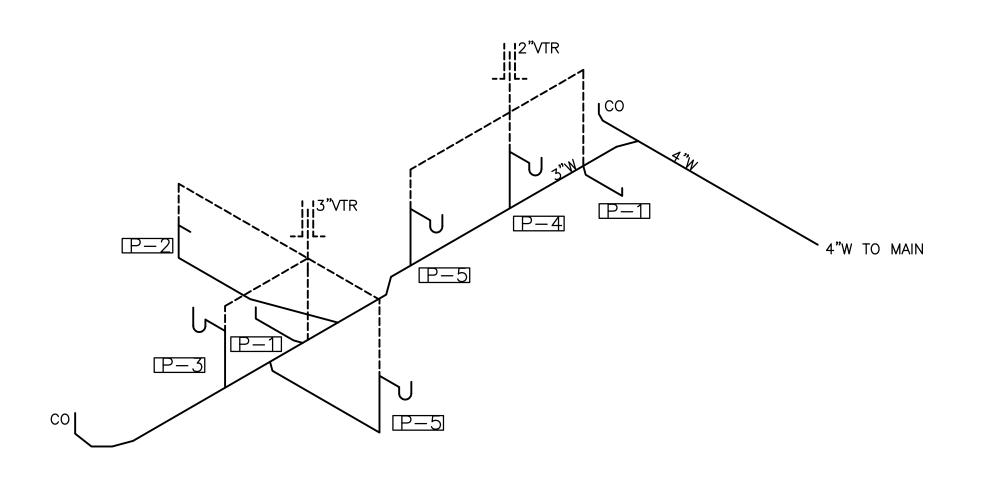
FIXTURE NUMBER, SEE SCHEDULE VENT THRU ROOF

- · - · - NEW COLD WATER PIPE 

----- NEW WASTE PIPE

---- NEW VENT PIPE

– BALL VALVE (TYPICAL) -THERMAL EXPANSION TANK -PRESSURE AND TEMPERATURE RELIEF VALVE TO FLOOR DRAIN, MOP SINK, GRADE, OR AS INDICATED ON THE DRAWINGS. EMERGENCY DRAIN PAN--WATER HEATER - DRAIN VALVE

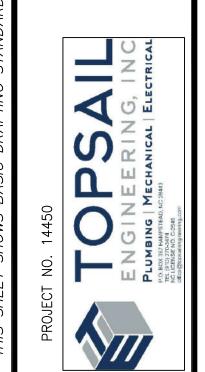


WASTE RISER

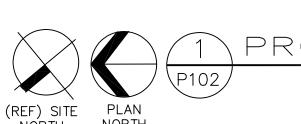
SCALE: NONE

15 DEC, 20. CRETE/BUS





15 DEC, 2021 CRETE/BUS



1 PROPOSED FLOOR PLAN — PLUMBING — WATER

SCALE: 1/4" = 1'-0"

GRAPHIC BAR SCALE (FOOT UNITS)

0 2 4 8

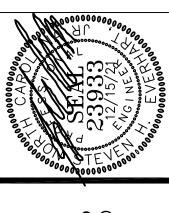
PROJECT NO. 14450

TOPS A LICENSIA DE LECTRICAL

PLUMBING | MECHANICAL | ELECTRICAL

PLUMBING | MECHANICAL | ELECTRICAL | ELECTRICAL

PLUMBING | MECHANICAL | ELECTRICAL | ELECTRI



Design

Michael L. Saieed, Jr., AIA, AIBD

Architect

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Wilmington, North Carolina 28405

s, LLC

2544 US 401 N LILLINGTON, NORTH CAROLINA 27 FLOOR PLAN — F

date

15 DEC, 2021

job no.

CRETE/BUS

drawn by

KSG

checked by

SE

drawing no.

checked by  $_{\it KSG}$  drawing no. P 102 revision no.

\$PL	IT SYSTEM HEA	AT PUMP S	CHEDULE
UNIT	NUMBER	AHU-1	
AREA	A SERVED		
MAN	UFACTURER	TRANE	
MODI	EL NUMBER	TEM6A0B30H21	
UNIT	WEIGHT (LBS)	111	
	TOTAL AIR CFM	800	
	OUTSIDE AIR CFM	80	
FAN	FAN H.P.	1/3	
	EXT. S.P. (IN. H20)	0.4	
	POWER SUPPLY	208/230/60/1	
NG ITY	TOTAL CAPACITY COOLING (BTUH)	29,000	
COOLING APACITY	SENSIBLE CAPACITY COOLING (BTUH)	22,500	
	ENTERING AIR TEMP.	80/67	
	ENTERING AIR TEMP.	70 °F	
	HIGH TEMPERATURE (BTUH) 47°F DB °	27,800	
TING	LOW TEMPERATURE (BTUH) 17°F DB °	18,400	
11<1-	AUXILARY COIL CAPACITY	3.6/4.8 KW @ 208/240	
+ 5	POWER SUPPLY	208/230/60/1	
	MINIMUM AMPACITY	27/30	
	MAX. OVERCURRENT PROTECTION	30/30	
	UNIT NUMBER	HP-1	
	MODEL NUMBER	4TWR6030	
	UNIT WEIGHT	196	
COOLED T PUMP	ENTERING AIR TEMP.	95°F	
	FAN TYPE	PROPELLER	
AIR	FAN H.P.	1/8	
<	COMPRESSOR	RECIP	
	POWER SUPPLY	208/230/60/1	
	MINIMUM AMPACITY	17	
	MAX. OVERCURRENT PROTECTION	25	
ACCE	ESSORIES	(1), (2), (3)	

- (1) PROVIDE WALL MOUNTED, PROGRAMMABLE ELECTRONIC THERMOSTAT WITH AUTO CHANGEOVER.
- (2) SYSTEMS SELECTED MEET REQUIREMENTS UNDER SECTION 506 OF THE NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE.
- (3) PROVIDE STRIP HEAT SHUTOFF PER 503.2.4.1.1

AIR DISTRIBUTION DEVICE SCHEDULE									
TAG	SERVICE	NECK SIZE	OVERALL SIZE	MODEL NUMBER	DESCRIPTION & ACCESSORIES				
Α	SUPPLY	8"ø	24 X 24	ASCD	1, 2, 3, 7, 8				
В	RETURN	14"ø	24 X 24	80	1, 2, 3, 5				

- (1) PRICE AIR DISTRIBUTION; OR APPROVED EQUAL.
- (2) ALUMINUM CONSTRUCTION, STANDARD WHITE FINISH.
- (3) T-BAR LAY-IN PANEL
- (4) SURFACE MOUNT BORDER.
- (5) CFM SHOWN IN GRILLE TAG IS MAXIMUM POSSIBLE WITH EXHAUST AND OUTSIDE AIR AT 0.
- (6) DOUBLE DEFLECTION GRILLE.
- (7) SQUARE FACE. ROUND NECK DIFFUSER
- (8) BUTTERFLY STYLE VOLUME CONTROL DAMPER.

TAG CFM RPM S.P. IN. W.G. WATTS/HP SONES ELECTRIC CONTROL MANUFACTU	
EF-1         75         700         .25         50 WATTS         3.0         120-1-60         WIRED WITH LIGHT         GREENHECK SP-B90	1, 2, 3

NOTE: FLEXIBLE DUCTWORK

SHALL MATCH DIFFUSER NECK

SIZE UNLESS OTHERWISE NOTED.

(1) CABINET CEILING FAN, DIRECT DRIVE, CENTRIFUGAL, SPRING LOADED ALUMINUM BACKDRAFT DAMPER.

- (2) ALUMINUM, WHITE ENAMEL CEILING GRILLE.
- (3) ALUMINUM HOODED WALL CAP WITH BUILT-IN BIRDSCREEN AND DAMPER.

### MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE

Prescriptive \_\_\_\_ Energy Cost Budget \_\_\_\_ Thermal Zone \_\_\_\_\_4 Exterior design conditions \_\_\_\_ winter dry bulb 26° F

summer dry bulb 92° F DB/76° F WB Interior design conditions \_\_ winter dry bulb \_\_\_\_\_\_70° F summer dry bulb \_\_\_\_\_75° F relative humidity \_\_\_\_\_50%

Building cooling load \_\_\_\_ Mechanical Spacing Conditioning System description of unit

> heating efficiency 80% cooling efficiency 14.0 SEER AVG. heat output of unit \_\_\_\_SEE\_SCHEDULES

cooling output of unit SEE SCHEDULES total boiler output. If oversized, state reason.

total chiller capacity. If oversized, state reason.

List equipment efficiencies N/A

Equipment schedules with motors (mechanical systems) motor horsepower SEE SCHEDULES number of phases SEE SCHEDULES

minimum efficiency SEE SCHEDULES # of poles \_\_\_

Additional prescriptive compliance method : 506.2.1 More Eff. Mech Equip. DESIGNER STATEMENT:

To the best of my knowledge and belief, the design with the mechanical systems, service systems apply North Carolina State Energy Code.

PROFESSIONAL ENGINEER TITLE:

## GENERAL MECHANICAL SPECIFICATIONS

ALL WORK SHALL COMPLY WITH THE REQUIRMENTS OF THE LATEST EDITION OF THE NC MECHANICAL CODE.

BASIS OF DESIGN: UNLESS OTHERWISE NOTED THE PURPOSE OF THESE DRAWINGS IS TO PROVIDE DIRECTION AND BASIS OF DESIGN TO A COMPETENT CONTRACTOR FAMILIAR WITH THE TYPE OF SYSTEMS BEING INSTALLED SUFFICIENT TO INDICATE OWNERS REQUESTS AND CODE REQUIREMENTS. IT IS THE CONTRACTORS RESPONSIBILITY, WHEN OTHERWISE UNDIRECTED, TO FOLLOW STANDARD INDUSTRY PRACTICES AND BASIC CODE COMPLIANCE INCLUDING, BUT NOT LIMITED TO, PROVIDING MATCHING REQUIRED ACCESSORIES TO THE SYSTEMS INDICATED, COORDINATING EXACT ROUTINGS AND LOCATIONS WITH OTHER TRADES AND THE OWNER, SELECTING CODE APPROVED MATERIALS, AND MAKING MINOR OFFSETS/ADJUSTMENTS BASED ON FIELD COORDINATION AND OWNER'S FIELD REQUESTS. CHANGE OF MANUFACTURER TO EQUIVALENT SYSTEMS, WITH OWNER'S APPROVAL, IS ACCEPTABLE. CONTACT ENGINEER WITH ANY CONFLICTS NOT COVERED BY THE ABOVE INSTRUCTIONS.

SHEET METAL WORK: THIS CONTRACTOR SHALL FURNISH ALL DUCTWORK AND ASSOCIATED SHEET METAL WORK AS CALLED FOR ON THE DRAWINGS AND REQUIRED FOR A COMPLETE DUCTED AIR DISTRIBUTION SYSTEM.

DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH BEST PRACTICES OF SHEET METAL WORK AND SMACNA STANDARDS.

ALL DUCTWORK SHALL BE GALVANIZED SHEET IRON THROUGHOUT EXCEPT WHERE OTHERWISE SHOWN AND FABRICATED IN ACCORDANCE WITH THE FOLLOWING TABLE (ALL DUCT SIZES ON CONTRACT DRAWINGS ARE SHEET METAL FABRICATION SIZES):

MAXIMUM DIMENSION GAUGE TRANSVERSE OF DUCT U.S. STD. JOINT BRACING

UP TO 12" NONE 7'-10" CENTERS 1"X1"X1/8" ANGLES 13" TO 30"

DUCTS 25 INCHES OR SMALLER IN MAXIMUM DIMENSION SHALL BE SUPPORTED WITH 1 INCH FLAT BAND HANGERS: DUCTS 25 INCHES AND LARGER SHALL BE SUPPORTED BY 3/4 INCH X 1-1/2 INCH ANGLE IRON AND ROUND ROD. SUPPORTS SHALL BE NOT MORE THAN 8 FEET ON CENTERS, PROPERLY FASTENED AND PLACED TO BUILDING STRUCTURES AND SHALL EXTEND AND BE RIVETED TO THE BOTTOM OF DUCTS.

4 FEET FROM JOINT

7'-10" CENTERS

UNLESS OTHERWISE SPECIFIED, FURNISH AND INSTALL ALL NECESSARY LINTELS, PROPERLY SIZED, SHEET METAL SLEEVES AND ESCUTCHEON COLLARS WHERE DUCTWORK RISES THROUGH FLOORS OR PASSES THROUGH WALLS OR

FURNISH AND INSTALL FLEXIBLE COLLARS IN THE DUCTWORK CONNECTIONS TO AIR HANDLING FANS TO PREVENT NOISE TRANSMISSION BETWEEN SECTIONS.

ALL CHANGES IN DUCT DIRECTION SHALL BE LONG RADIUS ELBOWS OR SHALL BE FITTED WITH TURNING VANES. IT IS ACCEPTABLE TO CHANGE RECTANGULAR DUCTWORK TO THE EQUIVALENT SIZE IN ROUND PROVIDED THE CONTRACTOR COORDINATES ALL CLEARANCE ISSUES.

ALL CONCEALED DUCTWORK SHALL BE INSULATED ON THE OUTSIDE WITH TWO INCH (2") THICK, 3/4 POUND DENSITY FIBERGLASS BLANKET INSULATION HAVING AN ALUMINUM FOIL-SCRIM VAPOR BARRIER JACKET.

EDGES OF INSULATION SHALL BE CUT STRAIGHT AND TRUE AND SHALL BE TIGHTLY BUTTED. THE VAPOR BARRIER JACKET SHALL OVERLAP THE BLANKET JOINT A MINIMUM OF THREE INCHES (3"). THE JACKET LAP SHALL BE FASTENED WITH MOISTURE RESISTANT ADHESIVE AND ALSO OUTWARD CLINCHING STAPLES SPACED TEN INCHES (10") C/C. THE VAPOR BARRIER EDGE AND STAPLES SHALL THEN BE COVERED WITH A THREE INCH (3") WIDE ÏAPÉ OF THE SAME MATERIAL AS THE JACKET AND SHALL BE FASTENED WITH MOISTURE RESISTANT ADHEŚIVE.

ALL CUTS, TEARS AND PENETRATIONS IN THE VAPOR BARRIER JACKET SHALL BE SEALED WITH JOINT TAPE. ALL EDGES OF INSULATING BLANKET SHALL BE SEALED FROM THE JACKET TO DUCT SURFACE WITH TAPE.

INSULATING BLANKET ON THE BOTTOM OF SURFACES IN EXCESS OF 24 INCHES WIDE SHALL BE SECURED AGAINST THE DUCT WITH ADHESIVE OVER THE ENTIRE AREA, MECHANICAL CLIPS ON 24 INCH CENTER OR BY WIRE TIES AROUND THE DUCT SPACED 24 INCHES C/C.

CONTRACTOR MAY USE FLEXIBLE DUCTWORK (MAXIMUM LENGTHS 15'-0") FOR FINAL CONNECTIONS TO DIFFUSERS/GRILLES. FLEXIBLE DUCTWORK SHALL BE CERTAFLEX 25 AS MANUFACTURED BY THE CERTAINTEED

REGISTERS AND GRILLES: ALL REGISTERS AND GRILLES SHALL BE OF SIZE, STYLE AND CAPACITY CALLED FOR ON PLANS AND IN THE GRILLE SCHEDULE. PROVIDE RUBBER OR EXPANDED FOAM GASKETS COMPLETELY AROUND ALL REGISTER AND GRILLE FRAMES TO PREVENT AIR LEAKAGE BETWEEN GRILLE FRAME AND DUCT OR BETWEEN GRILLE FRAME AND SURROUNDING FINISHED SURFACE. ACCEPTABLE MGFS: PRICE, CARNES, METALAIR, KRUGER. REGISTERS AND GRILLES SHALL BE BALANCED TO CFM SHOWN AND RECORD MADE OF ACTUAL FLOW AND BALANCE METHOD.

EQUIPMENT: MECHANICAL AND ELECTRICAL CONTRACTORS SHALL COORDINATE PRIOR TO ORDERING EQUIPMENT TO VERIFY CONSISTANT VOLTAGES. PRIOR TO EQUIPMENT BEING ENERGIZED, VOLTAGE TO EQUIPMENT CIRCUITS SHALL BE VERIFIED AS INSTALLED TO MATCH EQUIPMENT NAMEPLATE.

OPERATING INSTRUCTIONS, CERTIFICATES AND WARRANTIES: THE ORIGINAL OF ALL INSPECTION CERTIFICATES SHALL BE DELIVERED TO THE OWNER AND ONE (1) COPY EACH TO THE ENGINEER PRIOR TO REQUEST FOR FINAL PAYMENT.

THREE (3) COPIES OF OPERATING AND MAINTENANCE INSTRUCTIONS AND MANUFACTURER'S WARRANTIES FOR ALL EQUIPMÈNT PROVIDED UNDER THIS CONTRACT SHALL BE PROVIDED TO THE OWNER PRIOR TO SUBMITTING REQUEST FOR FINAL PAYMENT.

PRIOR TO FINAL PAYMENT TO THE CONTRACT, THE CONTRACTOR SHALL BE RESPONSIBLE TO TRAIN THE AUTHORIZED PERSONNEL ON HOW TO SERVICE, START-UP AND SHUT-DOWN THE VARIOUS SECTIONS OF THE SYSTEM. UPON COMPLETION OF THIS PHASE OF THE CONTRACT, THE CONTRACTOR SHALL SECURE A LETTER OF ACCEPTANCE FROM THE OWNER THAT HE IS SATISFIED WITH THE CONDITIONS STIPULATED HEREIN. UPON ACCEPTANCE OF THIS LETTER AND AT THE DISCRETION OF THE ENGINEER, THE FINAL PAYMENT WILL BE MADE.

THE CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE OF ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SYSTEM ACCEPTANCE.

THE WORK UNDER THIS CONTRACT WILL BE ACCEPTED ONLY AS AN ENTIRE SYSTEM UPON SATISFACTORY COMPLETION OF THE REQUIRED TESTS. NO PARTIAL ACCEPTANCE OF ANY PART OR PORTION OF APPARATUS WILL BE MADE.

INSTALL AND CONNECT ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DO ALL WORK IN A NEAT AND WORKMANLIKE MANNER AND IN ACCORDANCE WITH ACCEPTED GOOD PRACTICE AS JUDGED BY THE ENGINEER.

ALL EQUIPMENT AND PIPING SHALL BE SO INSTALLED THAT NO OBJECTIONABLE NOISES FROM EQUIPMENT, PIPING OR AIR DISTRIBUTION ARE AUDIBLE IN THE FINISHED AREAS.

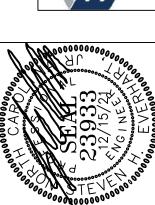
GUARANTEE: THIS CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR ONE (1) YEAR FOLLOWING FINAL INSPECTION AND ACCEPTANCE OF THE BUILDING BY THE ENGINEER AND OWNER. THIS APPLIES TO ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT, REGARDLESS OF

THE ONE (1) YEAR GUARANTEE PERIOD WILL START ON THE DAY OF FINAL INSPECTION AND ACCEPTANCE BY THE OWNER. THE CONTRACTOR SHALL PROVIDE THE ENGINEER A LETTER WITH TWO (2) COPIES STATING THE BEGINNING AND ENDING DATES OF THE GUARANTEE BASED ON THE AFOREMENTIONED STARTING DATES.

EXTENDED GUARANTEE: PROVIDE AN ADDITIONAL FOUR (4) YEAR GUARANTEE ON ALL COMPRESSORS BEYOND THE ABOVE MENTIONED ONE (1) YEAR GUARANTEÉ PERIOD.

AIR BALANCE: ALL SYSTEMS SHALL BE BALANCED BY THE CONTRACTOR PER THE REQUIREMENTS OF SECTION 408.2.2.1 OF THE NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE.

ENERGY CODE COMPLIANCE: HVAC EQUIPMENT SELECTED MEETS PERFORMANCE REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE SECTION 406.2 ANY SUBSTITUTIONS MUST MEET THIS STANDARD AS WELL. UPON FINAL INSPECTION THE CONTRACTOR SHALL PROVIDE TO OWNER MANUALS AND EVIDENCE OF AIR BALANCE. CONTRACTOR SHALL SCHEDULE DESIGN PROFESSIONAL AND ASSIST TO COMPLETE SYSTEM INSTALLATION STATEMENT IN ACCORDANCE WITH THE NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE SECTION 408.1.





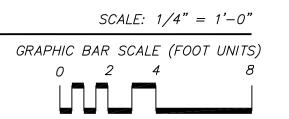
15 DEC, 202 CRETE/BUS

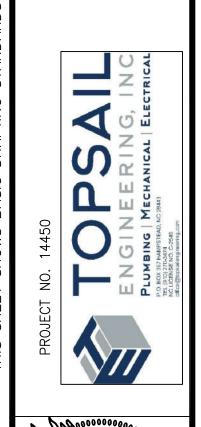


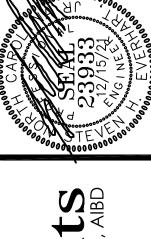
- 1) ROUTE 6" EXHAUST TO WALL OR ROOF CAP AS CORRDINATED IN FIELD.
- REFRIGERANT PIPING CONCEALED ABOVE CEILING AND IN BUILDING CONSTRUCTION, SIZE AS RECOMMENDED BY UNIT MANUFACTURER. (TYP.)
- 1"CONDENSATE DRAIN PIPING WITH PROPER PITCH.

  TERMINATE OUTSIDE BUILDING, MIN. 8" ABOVE GRADE WITH ELBOW LOOKING UP. (TYP.)
- 4 MOUNT UNIT ON 4" CONCRETE PAD OR PAVED SURFACE.
- 5 ROUTE 8"O.A. TO INTAKE VENT VIA BACKDRAFT DAMPER AND BALANCE DEVICE. MINIUMUM 10' BETWEEN O.A. INTAKE AND EXHAUST FAN CAP.
- (6) 20 X 12 UP TO CEILING AREA.

1 PROPOSED FLOOR PLAN — MECHANICAL







Elements
Michael L. Saieed, Jr., AIA, AIBD
Architect
1213 Culbreth Drive, Suite 142
William Control Body South Control Body South So

drawn by

checked by

drawing no.

1 1 1 1

SCOPE: FURNISH ALL MATERIALS, LABOR, TOOLS, EQUIPMENT AND SUPERVISION NECESSARY TO INSTALL COMPLETE ELECTRICAL POWER AND LIGHTING SYSTEM IN THE BUILDING AS FURTHER DESCRIBED ON THE ELECTRICAL CONTRACT

SUPPLY ALL MATERIALS, FITTINGS AND HARDWARE NECESSARY FOR COMPLETE OPERATING SYSTEMS WITHIN THE OBVIOUS INTENT OF THE DRAWINGS. NO ATTEMPT HAS BEEN MADE TO DETAIL OR LIST EACH AND EVERY ITEM OF MATERIAL. THE ELECTRICAL CONTRACTOR IS CAUTIONED TO READ THE ENTIRE PROJECT DRAWINGS AND SPECIFICATIONS TO ASSURE HIMSELF OF A THOROUGH KNOWLEDGE OF BUILDING CONSTRUCTION, STRUCTURAL RESTRICTIONS TO ELECTRICAL CONTRACT WORK AND TO ASSURE THAT NO REFERENCE ANYWHERE IN THE PROJECT DRAWINGS AND SPECIFICATIONS TO WORK BY THE ELECTRICAL CONTRACTOR IS OVERLOOKED.

CODES, PERMITS AND INSPECTIONS: THE LATEST EDITION OF THE STATE BUILDING CODE WHICH INCLUDES THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE IS HEREBY MADE A PART OF THIS SPECIFICATION. CODE REQUIREMENTS SHALL TAKE PRECEDENCE OVER THESE SPECIFICATIONS WHERE THE CODE REQUIREMENTS EXCEED THAT OF THE SPECIFICATIONS. HOWEVER, THE SPECIFICATIONS SHALL BE FOLLOWED WHERE THEY EXCEED CODE REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL, AT NO ADDITIONAL COST TO THE OWNER, OBTAIN THE SERVICES OF THE LOCAL ELECTRICAL INSPECTOR TO MAKE ALL REQUIRED DURING CONSTRUCTION AND COMPLETED ELECTRICAL SYSTEM INSPECTIONS.

MATERIALS AND WORKMANSHIP: ALL MATERIAL BUILT INTO THIS PROJECT SHALL BE NEW OF EQUIVALENT OR BETTER QUALITY THAN THAT SPECIFIED. SPECIFIC NAMES AND CATALOG NUMBERS USED HEREIN ARE TO ESTABLISH THE ITEM FUNCTION, ARRANGEMENT AND QUALITY REQUIRED AND ARE NOT INTENDED TO RESTRICT COMPETITION. ALL MATERIALS SHALL BE UL LISTED AND LABELED FOR THE PARTICULAR APPLICATION AS USED ON THIS PROJECT.

CONDUCTORS: ALL CONDUCTORS SHALL BE COPPER (#10 AWG AND SMALLER SHALL BE SOLID, AND #8 AWG AND LARGER STRANDED) WITH THHN/THWN INSULATION, INSTALLED IN CONDUIT OR APPROVED CABLE ASSEMBLY. NM CABLE SHALL NOT BE USED. CONDUCTORS SHALL BE #12 AWG MINIMUM EXCEPT WITHIN LIGHT FIXTURES, LOW VOLTAGE CONTROLS OR COMMUNICATION/FIRE ALARM EQUIPMENT. CONDUCTOR COLOR CODE SHALL CONFORM TO THE NEC. CONDUCTORS SHALL BE CONTINUOUS FROM TERMINAL TO TERMINAL OR PULL BOX TO PULL BOX. JOINTS SHALL BE MADE WITH IDEAL "WIRENUTS."

RACEWAYS: RACEWAYS SHALL BE ELECTRICAL METALLIC TUBING (EMT) WITH THREADED STEEL HEXAGONAL COMPRESSION FITTINGS - NEITHER INDENTOR TYPE OR DIE METAL FITTING WILL BE ACCEPTED. CONDUIT UNDER THE FLOOR SLAB AND UNDER GROUND OUTSIDE THE BUILDING MAY BE PVC. FITTINGS IN EMT SHALL BE WEATHER TIGHT (THOMAS AND BETTS SERIES #5123 WITH NYLON INSULATED THROATS), BENDS SHALL BE FACTORY FABRICATED OR MADE "COLD" WITH BENDING TOOL, FREE OF KINKS OR RESTRICTIONS. NO SINGLE BEND SHALL BE IN EXCESS OF 90 DEGREES. THERE SHALL BE NO MORE THAN THE EQUIVALENT OF THREE (3) 90 DEGREE BENDS IN A GIVEN RACEWAY FROM PULL BOX TO PULL BOX. RIGID RACEWAY THREADS SHALL BE CUT STRAIGHT AND TRUE - PIPE ENDS SHALL BE REAMED AND SMOOTHED INSIDE AND OUT.

SUPPORT 1-1/2 INCH AND LARGER CONDUIT 10 FEET O/C OR LESS, AND 1 INCH AND SMALLER 6 FEET O/C MAXIMUM. RACEWAYS SHALL BE SUPPORTED DIRECTLY FROM BUILDING STRUCTURE WITH BOLTS, SCREWS, STRAPS, HANGER RODS AND BRACKETS. ALL METALLIC HARDWARE SHALL BE GALVANIZED OR CADMIUM PLATED. NAILS, WIRE AND/OR PERFORATED STRAPS WILL NOT BE ACCEPTED.

USE THREADED LOCKNUTS OUTSIDE AND THREADED LOCKNUT AND BUSHING INSIDE ALL RACEWAY CONNECTIONS TO BOXES, DEVICES, PANELS AND GUTTERS. USE NON-METALLIC BUSHINGS ON ALL 1-1/4 INCH AND LARGER CONDUIT. EXPOSED CONDUIT SHALL BE RUN STRAIGHT AND TRUE PARALLEL AND PERPENDICULAR TO PRIMARY BUILDING LINES.

BOXES AND DEVICES: ALL BOXES, PANELS AND EQUIPMENT SHALL BE SUPPORTED DIRECTLY FROM THE BUILDING STRUCTURE AND SHALL NOT DEPEND ON THE FEEDER RACEWAYS FOR SUPPORT. ALL ITEMS SHALL BE CAREFULLY ALIGNED SO THAT COVERS WILL FINISH FLUSH AND STRAIGHT. ALL UNUSED KNOCKOUTS SHALL BE CLOSED WITH BLANKING DEVICES. BOXES IN CONCRETE OR MASONRY SHALL BE 3-1/2 INCH DEEP (MINIMUM) SQUARE 16 GAUGE GALVANIZED STEEL - STEEL CITY SERIES GW. BOXES INSTALLED IN WOOD PARTITIONS SHALL BE STEEL CITY 3-1/2 INCH DEEP GANGABLE SQUARE CORNER TYPE. RECEPTACLES SHALL BE HUBBELL 5362 OR EQUAL. SWITCHES SHALL BE HUBBELL 1120 SERIES OR EQUAL. COVER PLATES SHALL BE IMPACT RESISTANT.

PULL BOXES SHALL BE 14 GAUGE GALVANIZED STEEL WITH BLANK COVER SIZED AS REQUIRED BY NATIONAL ELECTRICAL CODE.

LOCATE DEVICES AND EQUIPMENT ABOVE FINISHED FLOOR AS FOLLOWS UNLESS OTHERWISE SPECIFICALLY NOTED ON

WALL SWITCHES - 4'-0" OR TO NEAREST MASONRY COURSE JOINT. RECEPTACLES - 1'-6" OR TO NEAREST MASONRY COURSE JOINT.

LIGHT FIXTURES - AS NOTED ON FIXTURE SCHEDULE.

OR "CAFETERIA EXHAUST FAN".

GROUNDING: THE ELECTRICAL SYSTEM AND ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. GREEN EQUIPMENT GROUND WIRE SHALL BE USED WITH ALL FEEDERS AND BRANCH CIRCUITS.

LIGHTING FIXTURES: LIGHTING FIXTURES AND LAMPS SHALL BE PROVIDED AND INSTALLED AS PER SCHEDULE. ALL FIXTURES SHALL BE CLEANED ON COMPLETION OF INSTALLATION.

TESTS: THE CONTRACTOR SHALL MEGGER ALL BUSWAYS, CABLES AND CONTROL CONNECTIONS TO PROVE INSULATION RESISTANCE IS OF ACCEPTABLE VALUE.

PANELBOARDS: PROVIDE PANELBOARDS RATED AND SIZED AS INDICATED IN THE SCHEDULE AND SHOWN ON THE PLANS EQUAL TO SQUARE D COMPANY MODEL QO LOAD CENTER.

ACCEPTABLE MANUFACTURERS: SQUARE D, GENERAL ELECTRIC, SIEMENS, CUTLER-HAMMER

SAFETY SWITCHES: SWITCHES SHALL BE EQUAL TO SQUARE D TYPE GD WITH RATINGS AND FUSING PROVISIONS AS INDICATED.

<u>IDENTIFICATION AND NAMEPLATES:</u> PROVIDE ENGRAVED, LAMINATED BAKELITE (WHITE LETTERS ON BLACK SURFACE) NAMEPLATES SCREWED TO EACH PIECE OF ELECTRICAL DISTRIBUTION EQUIPMENT AS FOLLOWS:

A. PANELBOARDS, SWITCHBOARDS - DESIGNATION L1, P1, ETC., VOLTAGE, PHASE NUMBER OF WIRES, ETC.; WORDING EXAMPLE: PANEL L1-208V-3 PHASE, 4 WIRE.

B. MOTOR STARTERS, DISCONNECT SWITCHES - UNLESS MOUNTED DIRECTLY ON OR ADJACENT TO IDENTIFY EQUIPMENT; WORDING EXAMPLE: EXHAUST FAN 1, MAKE-UP AIR UNIT.

PROVIDE TYPED DIRECTORIES FOR PANELBOARD BRANCH CIRCUIT IDENTIFICATION. IDENTIFY EACH CIRCUIT BREAKER AS TO THE EXACT ROOM NUMBERS OR AREA SERVED AND THE TYPE OF CIRCUIT, I.E. "ROOMS 101-104 LIGHTS"

EQUIPMENT CONNECTIONS: THIS CONTRACTOR SHALL BRING ALL REQUIRED ELECTRICAL SERVICE TO ALL EQUIPMENT ITEMS FURNISHED UNDER OTHER SECTIONS OF THESE SPECIFICATIONS OR BY THE OWNER, MAKE FINAL CONNECTIONS, AND LEAVE EQUIPMENT READY FOR OPERATION. THIS CONTRACTOR SHALL COORDINATE WITH ANY AFFECTED TRADE TO ASSURE CORRECT OPERATION OF THE EQUIPMENT ITEM.

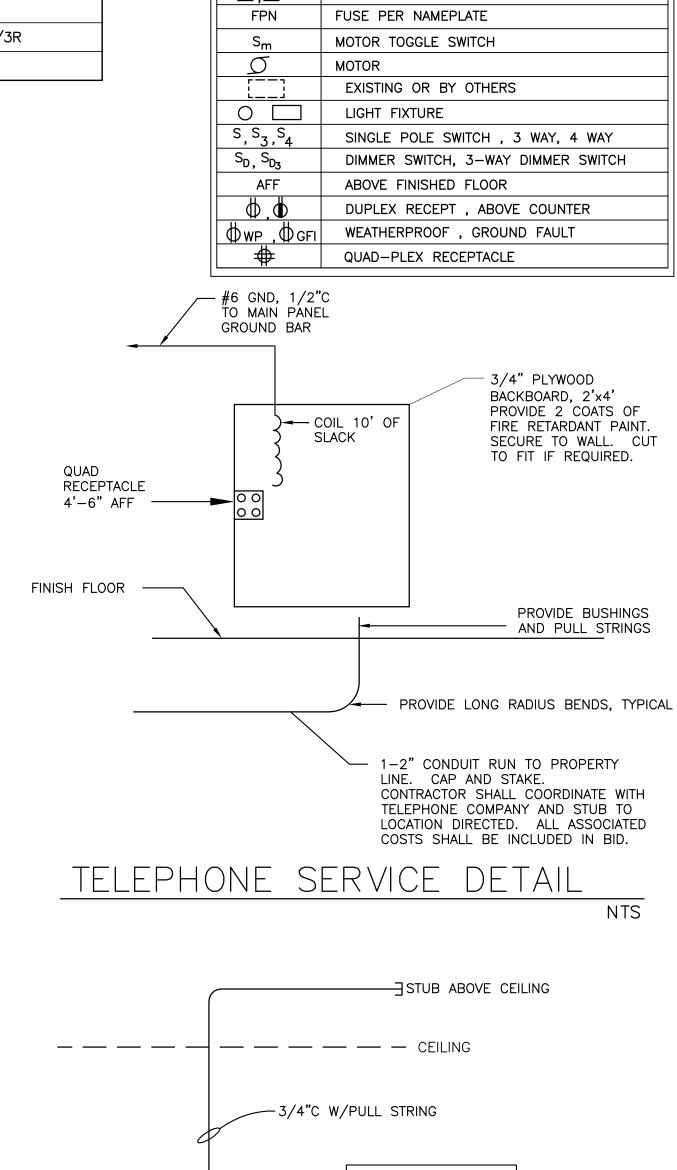
CONTROL AND INTERLOCK WIRING: EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS, ALL CONTROL AND INTERLOCK WIRING SHALL BE PERFORMED BY THE RESPECTIVE CONTRACTORS.

THE ELECTRICAL SUBCONTRACTOR SHALL INSTALL ALL STARTERS, PILOT SWITCHES, CONTROL DEVICES AND MISCELLANEOUS ITEMS OF ELECTRICAL EQUIPMENT FURNISHED UNDER OTHER SECTIONS OF THESE SPECIFICATIONS THAT ARE NOT INTEGRALLY MOUNTED WITH THEIR ASSOCIATED EQUIPMENT.

SERVICE: THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SERVICE WITH THE UTILITY COMPANY. PROVIDE UTILITY REQUIRED METERING PROVISIONS. PROVIDE CT CAN OR CONCRETE PAD FOR TRANSFORMER AS REQUIRED. PROVIDE CONDUIT FOR UTILITY IF REQUIRED. EC SHALL WORK DIRECTLY WITH THE UTILITY AND SHALL COMPLETE AND SUBMIT ALL LOAD DATA SHEETS REQUIRED FOR SERVICE APPLICATION.

EQUI.	PMEN'	T CONNEC	CTION	SCHEI	DULE					
CALLOUT	SYMBOL	VOLTS	AMPS	KV A	CIRCUIT	WIRE CALLOUT	MCA	MOCP	DISCONNECT	DISCONNECT DESCRIPTION
AHU	<b>⊗</b> ^Ø'	240V 2P 2W	45	10.8	A-1,3	2 #6, #10 GND	55	60	FUSED	240/60/2
HP	<b>⊗</b> ^\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	240V 2P 2W	24.2	5.8	A-2,4	2 #8, #10 GND	30	50	FUSED	240/60/2/3R
WH	<b>⊗</b> \$	120V 1P 2W	12.5	1.5	A-5	2 #12, #12 GND	16	20	TOGGLE SWITCH	

	TING FL FROM U			BUS AM	240/120 IPS 200 L 100%		SW .		MAIN	22,000 BRKR 200 STANDARD			
ЖТ	CKT	OID OLUT DEOL			LOAD	KVA	СКТ	CKT	OLD OLLIT DEGO	DIDTION		LOAD	KVA
#	BKR	KR CIRCUIT DESCRIPTION		A	В	#	BKR	CIRCUIT DESC	RIPTION		Α	В	
1 3 5	60/2   20/1	AHU WATER HEAT	FD		5.4	5.4	2 4 6	50/2   20/1	HP LIGHTING			2.9	2.9
7 9	20/1 20/1 20/1	SPARE REFRIGERATO			1.2	0	8	20/1 20/1 20/1	LIGHTING	GHTING		0.021	0.627
11 13	20/1 20/1	VENDING VENDING			1.2	1.2	12 14	20/1 20/1	LAN TEL BOARD	·		0.36	0.36
15 17 19	20/1 20/1 20/1	ADMIN RECERT DISPATCH REDISPATCH RE	CEPTACLE		0.54	0.9 0.54	16 18 20	20/1 20/1 20/1	UC REFRIGERA BREAK RECEF BREAK RECEF	PTACLE		0.18	0.6
21	20/1 20/1 20/1	1	OUTSIDE REC	EPTACLE	0.9	0.54	22 24	20/1 20/1 20/1	LOUNGE RECE	PTACLE		0.18	0.16
25	20/1 20/1	BATCH RECE LOUNGE REC			0.54	0.54	26 28	20/1 20/1	SPARE SPARE			0	0
9 31 33	20/1 20/1 20/1	SPARE SPARE SPARE			0	0	30 32 34	20/1 20/1 20/1	SPARE SPARE SPARE			0	0
55 57	-/1 -/1	SPACE SPACE			0	0	36 38	-/1 -/1	SPACE SPACE			0	0
39	-/1	SPACE				0	40	<b>-/1</b>	SPACE				0
			000101 14144	0410104					TOTAL CO		/A BY PHASE	15.6	14.1
			CONN KVA	CALC KVA	(1052)					CONN KVA		(1052)	
LIGHTING 1.38 1.72 LARGEST MOTOR 5.8 1.45 OTHER MOTORS 0 0 RECEPTACLES 6.12 6.12 KITCHEN EQUIP 4.2 3.36			(125%) (25%) (100%) (50%>10	))		HEA COO NON	NTINUOUS ATING DLING NCONTINUOUS	1.5 10.8 5.8 0	10.8 0 0	(125%) (100%) (0%) (100%)			
			(80%)			MET			0	(N/A) (125%)			
									AL KVA ANCED AMPS	29.8	25.3 106		



ELECTRICAL LEGEND

ARROW INDICATES HOMERUN,

TICKMARKS: NEUTRAL, PHASE, GND.

DISCONNECT SWITCH; FUSED; NONFUSED

CONDUIT

POWER PANEL

JUNCTION BOX

DATA/COMM OUTLET

DESCRIPTION

CONDUIT UNDERFFLOOR OR UNDERGROUND

SYMBOL

\_\_\_\_

\_\_\_\_\_

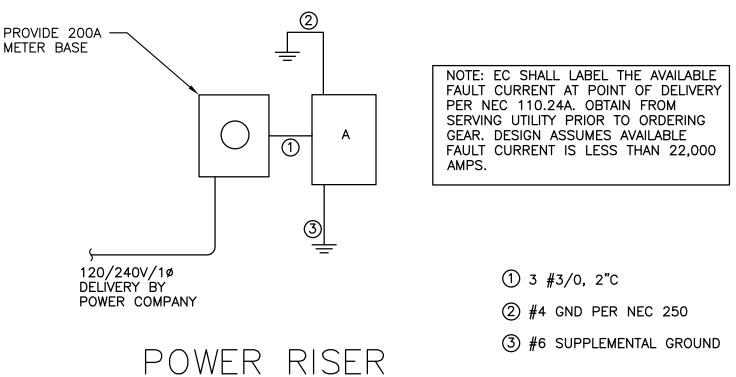
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NOTE: DEVICES & WIRING BY OTHERS

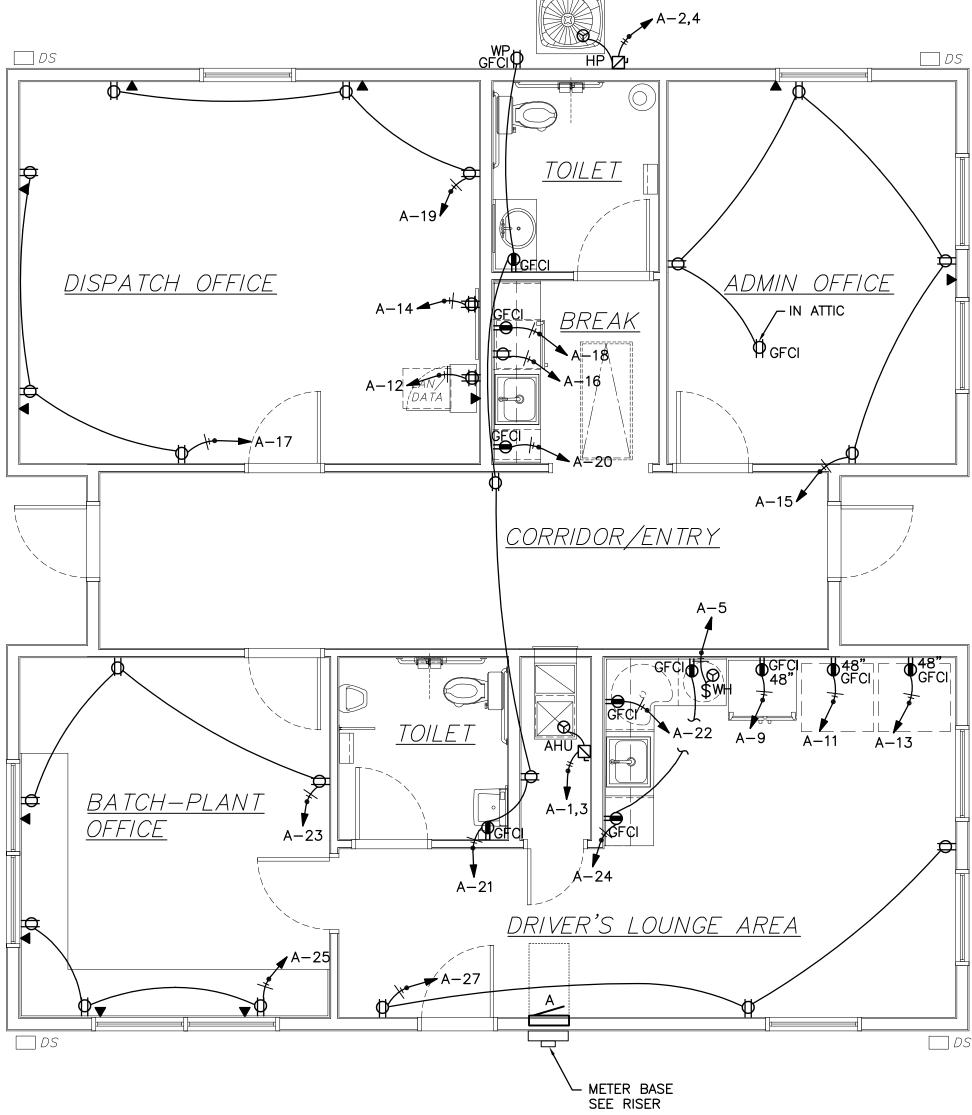
- 4" SQUARE BOX W/BLANK COVER

— FINISH FL.



15 DEC, 202 CRETE/BUS

GLM





SCALE: 1/4" = 1'-0"GRAPHIC BAR SCALE (FOOT UNITS)
0 2 4 8

15 DEC, 2021 CRETE/BUS

ELECTRICAL	SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:

Energy Code: Prescriptive Performance

ASHRAE 90.1: Prescriptive Performance

Lighting schedule

lamp type required in fixture	<u>See Fixture Schedule</u>
number of lamps in fixture	See Fixture Schedule
ballast type used in the fixture _	See Fixture Schedule
number of ballasts in fixture	See Fixture Schedule
total wattage per fixture	See Fixture Schedule
	·

Building Area \_\_\_\_ Space by Space \_\_\_\_

total interior wattage specified vs allowed 1088/1312
total exterior wattage specified vs allowed 48/780

Additional Prescriptive Compliance

● 506.2.1 More Efficient Mechanical Equipment

□ 506.2.2 Reduced Lighting Power Density

□ 506.2.3 Energy Recovery Ventilation Systems□ 506.2.4 Higher Efficiency Service Water Heating

☐ 506.2.5 On—Site Supply of Renewable Energy ☐ 506.2.6 Automatic Daylighting Control System

☐ N/A EXISTING/RENOVATION

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the requirements of Chapter 5 of the 2012 North Carolina State Energy Code.

Code.

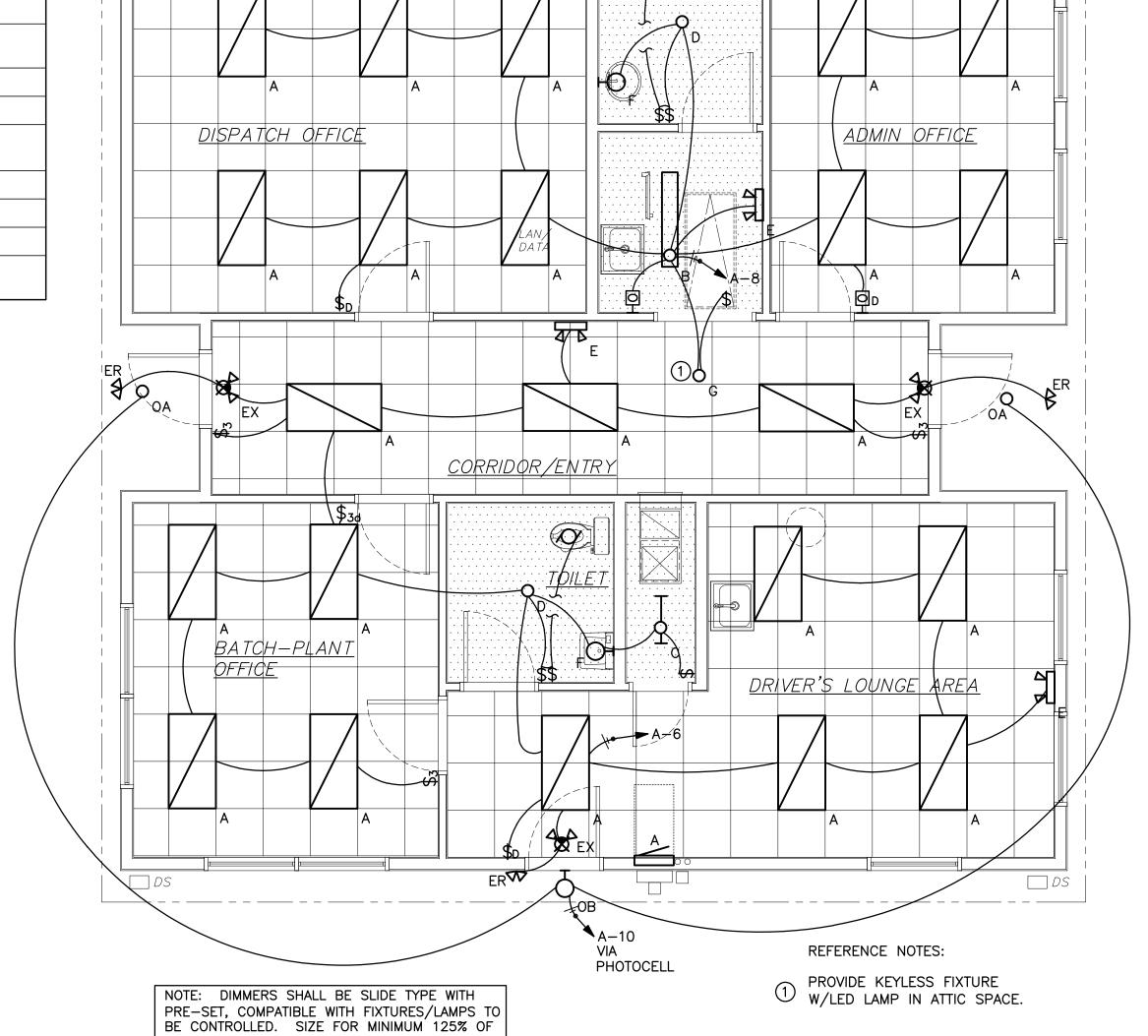
SIGNED:

NAME: Gregory McDowell

TITLE: Professional Engineer

# SWITCH SCHEDULE

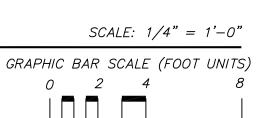
SYMBOL	NOTE 1
\$ <sub>D</sub>	DIMMER SWITCH
\$	Single Pole Switch
P <sub>D</sub>	0-10V LOCAL WALL MOUNT DIMMER / SENSOR WATTSTOPPER PW-311
9	WALL BOX OCCUPANCY SENSOR GREENGATE ONW-P-1001-MV-W
\$ 3	3-WAY SWITCH
\$ 3d	3—Way Dimmer





LOAD CONTROLLED. PROVIDE 0-10V DIMMING

CONTROL WIRING WHERE REQUIRED.



the  $\frac{15 \text{ DEC}, 202}{\text{constant}}$  awn by  $\frac{15 \text{ RSG}}{\text{RSG}}$ 

m E102