NEW CONSTRUCTION NORTH GRANVILLE COUNTY SENIOR CENTER 303 OXFORD ST STOVALL, NC 27582

ABBREVIATIONS

@ AT ACC ACCENT COLOR ACOUS ACOUSTIC ACT ACOUSTICAL CEILING TILE ACW ACOUSTICAL WALL PANELS AD AREA DRAIN ADJ ADJUSTABLE AE APPROVED EQUA AFF ABOVE FINISH FL AFLATHLETIC FLOORING AHU AIR HANDLING UNI ALUM ALUMINUM ANOD ANODIZED ANSI AMERICAN NATIONAL STANDARDS INSTITUTE ATTEN ATTENUATION AWP ACRYLIC WALL PANELS BBT BIOBASED TILE BF BLOCK FILL BFC BROOMED FINISHED CONCRETE BL BLINDS BLDG BUILDING BLKG BLOCKING BOT BOTTOM BPG BULLET PROOF GLASS CB CATCH BASIN CEM CEMENTIOUS SIDING CF CORK FLOORING CFT CERAMIC FLOOR TILE CG CURVED CEILING GRID CI CAST IRON CI# CURB INLET CJ CONTROL JOINT CL CENTERLINE CLG CEILING CLR CLEAR CMU CONCRETE MASONRY UNIT CO CLEAN OUT COL COLUMN CONC CONCRETE CONSTR CONSTRUCTION CONTR CONTRACTOR CORR CORRUGATED CPT CARPET CPTT CARPET TILE CRC COLD ROLLED CHANNEL CRF CORK RUBBER FLOORING CS COUNTERSUNK CSCI CONTRACTOR SUPPLIED, CONTRACTOR INSTALLED CTB CERAMIC TILE BASE CW CURTAINWALL CWT CERAMIC WALL TILE DFP DRY FOG PAINT DIA DIAMETER DISP DISPENSER DN DOWN DP DEEP DR DOOR DS DOWNSPOUT DTL DETAIL EDG EDGE BANDING EES EMERGENCY EYE WASH AND SHOWER EFC EPOXY FLOOR COATING EIFS EXTERIOR INSULATION FINISH SYSTEM EIP EXISTING IRON PIPE EJ EXPANSION JOINT

ELEV ELEVATION EN ENAMEL EPT HIGH PERFORMANCE EPOXY PAINT EQ EQUAL ES EXPOSED STRUCTUR EST EXISTING EXP EXPOSED CEILIN EXT EXTERIOR E/W EACH WAY

EWC ELECTRIC WATER COOLER FC FIRECODE FD FLOOR DRAIN FE FIRE EXSTINGUISHER SURFACE MOUNTED FEC FIRE EXSTINGUISHER

SEMI-RECESSED FF FINISH FLOOR FH FIRE HYDRANT FLU FLOURESCENT FOF FACE OF FRAME FOM FACE OF MASONRY FT FLOOR TILE FTG FOOTING FV FLOOD VENT

GA GAGE GALV GALVANIZED GC GENERAL CONTRACTOR GCT GRANITE COUNTERTOP GEN GENERATOR GFT GRANITE FLOOR TILE GL GLASS GMT GLASS MOSAIC TILE GT GROUT GWB GYPSUM WALL BOARD GYP GYPSUM BOARD

HB HOSE BIB HC HOLLOW CORE HDC HANDICAP HDWD HARDWOOD HM HOLLOW METAL HORZ HORIZONTAL HR HOUR

ID INSIDE DIAMETER IMP INSULATED METAL PANEL INSTAL INSTALLATION INSUL INSULATION INT INTERIOR INV INVERT

JB JOIST BEARING JB# JUNCTION BOX JT JOINT

L LONG LFTLINOLEUM FLOOR TILE LP LIGHT POLE LSTLINOLEUM SHEET FLOORING

LVS LEAVES (DOOR)

LVTLUXURY VINYL TILE MATL MATERIAL MAX MAXIMUM MB MASONRY - BRICK MBL MARBLE MC METAL CANOPY MCT METAL CEILING TILE MECH MECHANICAL MFR MANUFACTURER MFT MARBLE FLOOR TILE

MINMINIMUM

MTD MOUNTED

MO MASONRY OPENING MTB MARBLE TILE BASE MTL METAL MWM METAL WALK-OFF MAT MWT MARBLE WALL TILE N/A NOT APPLICABLE

> NIC NOT IN CONTRACT NOM NORMAL OC ON CENTER

OD OUTSIDE DIAMETER OFCI OWNER FURNISHED. CONTRACTOR INSTALLED OFOI OWNER FURNISHED, OWNER INSTALLED OPP OPPOSITE OSC OVERFLOW SCUPPER OZ OUNCE

P PAINT PC POLISHED CONCRETE PERF PERFORATED PFT PORCELAIN FLOOR TILE PIV POST INDICATOR VALVE PL PLATE P-LAM PLASTIC LAMINATE P-LAM WD PLASTIC LAMINATE WOOD DOORS PLYWD PLYWOOD PNT PAINT

POLYETH POLYETHYLENE PP POWER POLE PR PAIR PTB PORCELAIN TILE BASE PTD PAINTED PTP PLASTIC TOILET

PARTITIONS PWT PORCELAIN WALL TILE PVC POLYVINYL CHLORIDE **QS QUARTZ SURFACE**

QT QUARRY TILE QZT QUARTZ TILE

R RADIUS R&S ROD AND SHELF **RB RESILIENT BASE** RBT RUBBER TILE RCP REINFORCED CONCRETE RD ROOF DRAIN RDL ROOF DRAIN LEADER RECEPT RECEPTACLE RECYF RECYCLED FLOORING REQD REQUIRED RES RESILIENT RM RUBBER MAT RO ROUGH OPENING ROW RIGHT OF WAY RSF RESINOUS FLOORING RTF RESILENT TILE FLOORING

SAT SPRAYED ACOUSTICAL TREATMENT SC SEALED CONCRETE SCH SCHEDULE SCW SOLID CORE WOOD SDT STATIC DISSIPATIVE TILE SF STOREFRONT SHEATH SHEATHING SIMSIMILAR

SP SPACES SQ SQUARE SQFT SQUARE FEET SRT SLIP RESISTANT TILE SS STAINLESS STEEL SSC STAINED SEALED CONCRETE

SSG STRUCTURAL SILICON GLAZIN SSM SOLID SURFACE ST STEEL ST&R STAIR TREADS AND RISERS

STD STANDARD SUSP SUSPENDED

T&G TONGUE AND GROOVE TB TILE BASE TC TERRA COTTA TCA TILE COUNCIL OF AMERICA

TELE TELEPHONE TEMP TEMPERED TEXD TEXTURED

TFTTERRAZZO FLOOR TILE TOC TOP OF CURB TOS TOP OF STEEL

TP TELEPHONE POLE TS TRANSITION STRIP TV TELEVISION TVB TELEVISION MOUNTING BRACKET

TYP TYPICAL UL UNDERWRITERS LABORATORY U/L UTILITY/LIGHTS

UNO UNLESS NOTED OTHERWISE VACT VINYL ACOUSTICAL TILE VB VAPOR BARRIER VCT VINYL COMPOSITION TILE VERT VERTICAL VIF VERIFY IN FIELD

VWC VINYL WALL COVERING

W/ WITH WC WATER CLOSET WD WOOD WF WOOD FLOORING WT WALL TILE WT* WALL TILE - SEE ELEVATION WWF WELDED WIRE FABRIC WWM WELDED WIRE MESH

YMBOL LEGEND	SHEET NAMING LEGEND	INDEX OF DRAWINGS
DRAWING NO. T DRAWING NAME View Name A101 1/8" = 1'-0" SCALE DETAIL NO. DETAIL NO. DETAIL NO. DETAIL NO. DETAIL NO. CALLOUT DETAIL SHEET NO. DETAIL NO.	SECTION GENERAL PLANS ZETERIOR ELEVATIONS BUILDING / WALL SECTIONS VERTICAL CIRCULATION DEMOLTION VERTICAL CIRCULATION DEMOLTION FOR ELEV / CASEWORK DEMOLTION A ARCHITECTURAL Q EQUIPMENT FP FIRE PROTECTION P PLUMBING M MECHANICAL E ELECTRICAL FA FIRE ALARM X MISCELLANEOUS APPLICABLE TO ARCHITECTURAL SHEETS ONLY	01 GENERALG0.1COVERSHEETG0.2BUILDING CODE SUMMARYG1.1LIFE SAFETYG1.1LIFE SAFETYG1.1LIFE SAFETYG2 CIVILA2.0OVERALL BUILDING ELEVATIONSG2 CIVILA3.1BUILDING SECTIONSG2 CIVILA3.2G2 CIVILA5.1CE-00COVER SHEETCE-01DEMOLITION PLANCE-02SITE and UTILITY PLANCE-03DRAINAGE and GRADING PLANCE-04EROSION CONTROL PLANCE-05SITE and UTILITY PLAND-01EROSION NOTES/DETAILSD-02EROSION NOTES/DETAILSD-03NPDES SHEETD-04NPDES SHEETD-05SITE NOTES and DETAILSD-06SITE DETAILSD-06SITE DETAILSD-06SITE DETAILS03 LANDSCAPINGM1.1L1.1LANDSCAPING PLANM1.1MECHANICALM1.2MECHANICAL ATTIC PLANM1.2MECHANICAL ATTIC PLAN
DETAIL NO. A2-03 DETAIL NO. DETAIL NO.	CONSULTANTS CVIL ENGINEER: STOCKS Line Line Line Line Line Line Line Line	04 STRUCTURALM2.1MECHANICAL NOTES, LEGEND, AND SCHEDULESS0.1GENERAL NOTESM3.1MECHANICAL DETAILSS0.2GENERAL NOTESM3.1MECHANICAL DETAILSS0.3ABBREVIATIONS AND SYMBOL LEGEND09 ELECTRICALS1.1FOUNDATION PLANE1.1POWER PLANS1.2ROOF FRAMING PLANE1.2LIGHTING PLANS3.1SLAB ON GRADE DETAILSE1.3ELECTRICAL ATTIC PLANS3.2FOUNDATION DETAILSE2.1POWER RISER DIAGRAM PANEL SCHEDULESS4.1CMU DETAILSE2.2FIXTURE SCHEDULE DETAILSS6.1METAL STUD AND TIMBER FRAMING DETAILSE2.3LEGEND NOTESS6.4SHEAR WALL AND TIMBER FRAMING DETAILSE2.3LEGEND NOTESS6.5ROOF DETAILSE4AR WALL AND TIMBER FRAMING DETAILSE3.4S6.6ROOF DETAILSE4AR WALL AND TIMBER FRAMING DETAILSE4AR WALL AND TIMBER FRAMING DETAILS
BI CASEWORK MARK # WALL MARK # WALL MARK EHD ACCESSORIES MARK # DEMO MARK # DEMO MARK 0 1 ROOM NAME 1 ROOM NAME ROOM MARK CR CARD READER	STRUCTURAL ENGINEER: STRUCTURAL ENGINEER: STRUCTURAL ENGINEER: STRUCTURAL ENGINEER: STRUCTURAL ENGINEER: STRUCTURAL ENGINEER: PLUMBING, MECHANICAL, & ELECTRICAL ENGINEER: STRUCTURAL ENGINEERS, PA S21 BLUE RIDGE ROAD, SUITE 113 RAEIGH, NC 27612 PLONE: 919-571-111	05 ARCHITECTURAL A1.1 FIRST FLOOR PLAN A1.2 STEM WALL & DECK PLANS A1.3 ATTIC PLAN A1.4 ROOF PLAN A1.5 REFLECTED CEILING PLAN G-1: OUTDOOR DECK CANOPY - THE CONTRACTOR SHALL STIPULATE THE SUM TO BE ADDED TO THE BASE BID FOR THE INSTALLATION OF A CANOPY OVER THE OUTDOOR PATIO AS DETAILED IN THE PLANS AND SPECIFICATIONS. G-2: KITCHEN 103 FLOOR FINISH - THE CONTRACTOR SHALL STIPULATE THE SUM TO BE ADDED TO THE BASE BID FOR THE INSTALLATION OF CERAMIC FLOOR TILE WITH TILE BASE IN LIEU OF LVT FLOOR FINISH WITH RUBBER BASE IN KITCHEN 103 AS DETAILED IN THE DRAWINGS AND SPECIFICATIONS. G-3: GENERATOR AND AUTOMATIC TRANSFER SWITCH - THE CONTRACTOR SHALL STIPULATE THE SUM TO BE ADDED TO THE BASE BID FOR THE INSTALLATION OF A GENERATOR AND AUTOMATIC TRANSFER SWITCH IN LIEU OF A MANUAL TRANSFER SWITCH AS DETAILED IN THE ELECTRICAL DRAWINGS. G-4: COMPOSITE DECKING - THE CONTRACTOR SHALL STIPULATE THE SUM TO BE ADDED TO THE BASE BID FOR THE INSTALLATION OF COMPOSITE DECKING AS SPECIFICATIOR SHALL STIPULATE THE SUM TO BE ADDED TO THE BASE BID FOR THE INSTALLATION OF COMPOSITE DECKING AS SPECIFICAL THE ONTRACTOR SHALL STIPULATE THE SUM TO BE ADDED TO THE BASE BID FOR THE INSTAL





G0.1

Sheet Title

COVERSHEET

Checked By

DG

2018 APPENDIX B BUILDING CODE SUMMARY				2500
Name of Project: NORTH GRANVILLE COUNTY SENIOR CENTER Address: 303 OXFORD ST. STOVALL, NC Zip Code 27582	STORY NO. DESCRIPTION AND USE (A) (B) (C) (D) NO. USE BLDG AREA PER STORY (ACTUAL) TABLE 506.2 ⁴ AREA AREA FOR FRONTAGE INCREASE ^{1,5} ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}	ACCESSIBLE DWELLING UNITS (SECTION 1107)	MECHANICAL DESIGN *SEE SHEET M2.1	
Owner/Authorized Agent: DREW CUMMINGS	1 B, A-2, A-3 8,714 6,000 4,500 10,500	TOTAL ACCESSIBLE ACCESSIBLE TYPE A TYPE A TYPE B TYPE B TOTAL UNITS UNITS UNITS UNITS UNITS UNITS UNITS ACCESSIBLE UNITS REQUIRED PROVIDED REQUIRED PROVIDED REQUIRED PROVIDED REQUIRED	MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT Thermal Zone	
Owned By: City/County Private State	2 - - - - - 3 - - - - - -	N/A N/A N/A N/A N/A N/A N/A N/A	summer dry bulb: <u>93° F</u>	
Code Enforcement Jurisdiction: City STOVALL GRANVILLE COUNTY State	4 -		Interior design conditions winter dry bulb:70° F	
	6	ACCESSIBLE PARKING (SECTION 1106)	summer dry bulb: 74° F	A O A Contraction of the set of t
CONTACT: ANN COLLIER, ARCHITECT	 a. Perimeter which fronts a public way or open space having 20 feet minimum width = <u>420'</u> (F) b. Total Building Perimeter = <u>420'</u> (P). 	LOT OR PARKING TOTAL # OF PARKING SPACES # OF ACCESSIBLE SPACES PROVIDED TOTAL # AREA REQUIRED PROVIDED REGULAR WITH VAN SPACES WITH ACCESSIBLE YACCESS AISLE 132" ACCESS 8' ACCESS PROVIDED PROVIDED	Building heating load: 120.0 MBH	
DESIGNER FIRM NAME LICENSE# TELEPHONE# E-MAIL Architectural OAKLEY COLLIER ARCHITECTS ANN COLLIER 6886 252-937-2500 ACOLLIER@OAKLEYCOLLIER.COM	c. Ratio $(F/P) = 1/1$ (F/P) d. W = Minimum width of public way = 30' (W)	7 51 8 - - 8	Building cooling load: 252.2 MBH (21.0 TONS)	V. Ma
CivilSTOCKS ENGINEERINGMICHAEL STOCKS19843252-459-8196MSTOCKS@STOCKSENGINEERING.COMElectricalATLANTEC ENGINEERINGSUJIN PRAMOJANEY027479919-571-1111SUJIN@ATLANTECENGINEERS.COM	e. Percent of frontage increase $If = 100[F/P-0.25] \times W/30 ={5}$ (%). 2. Unlimited area applicable under conditions of Section 507.	TOTAL	Unitary	vood 305 V
Fire Alarm ATLANTEC ENGINEERING JIM DELPAPA 22035 919-571-1111 JIM@ATLANTECENGINEERS.COM	 3. Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2). 4. The maximum area of open parking garages must comply with Table 406.5.4. 5. Frontage increase is based on the unsprinklered area value in Table 506.2. 		description of unit: SEE SCHEDULE ON SHEET M2.1 heating efficiency: SEE SCHEDULE ON SHEET M2.1	
Mechanical ATLANTEC ENGINEERING PATRICK MCCABE 051195 919-571-1111 PATRICK@ATLANTECENGINEERS.COM Sprinkler-Standpipe		PLUMBING FIXTURE REQUIREMENTS	cooling efficiency: SEE SCHEDULE ON SHEET M2.1 size category of unit: SEE SCHEDULE ON SHEET M2.1	
Structural STEWART ENGINEERING BRYAN COVINGTON 045141 919-380-8750 BCOVINGTON@STEWARTINC.COM	ALLOWABLE HEIGHT	(TABLE 2902.1) USE WATERCLOSETS URINALS LAVATORIES SHOWERS DRINKING FOUNTAINS MALE FEMALE UNISEX MALE FEMALE UNISEX /TUBS REGULAR ACCESSIBLE	Boiler Size category, if oversized, state reason: N/A	-
Other	ALLOWABLE SHOWN ON PLANS CODE REFERENCE 1 Building Height in Feet (Table 504.3) 2 50 28'-3" N/A	SPACE EXISTG -	Chiller Size category, if oversized, state reason: N/A	
("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)	Building Height in Stories (Table 504.4) 3 1 1 N/A	REQID 2 2 - 1 1 - 1 1	List equipment efficiencies: <u>SEE SCHEDULES ON SHEET M2.1</u>	
	 Provide code reference if the "Snown on Plans" quantity is not based on Table 504.3 or 504.4. The maximum height of air traffic towers must comply with Table 412.3.1. The maximum height of open parking garages must comply with Table 406.5.4. 			
2018 NC BUILDING CODE: New Building Addition Renovation		SPECIAL APPROVALS	*SEE SHEET E3 1	
Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and	FIRE PROTECTION REQUIREMENTS BUILDING ELEMENT FIRE RATING DETAIL# DESIGN# SHEET# FOR SHEET#	Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below) <u>LOCAL JURISDICTION</u>	ELECTRICAL DESIGN	
 Phased Construction - Shell/Core - Contact the local inspection jurisdiction for possible additional proceedures and requirements 	SEPARATION REQ'D PROVIDED AND FOR RATED FOR DISTANCE (W/* SHEET# RATED PENETRATION RATED (FEET) REDUCTION) ASSEMBLY JOINTS		ELECTRICAL SYSTEM AND EQUIPMENT Method of Compliance: Energy Code: Procorriptive Performance	
2019 NC EVISTINC DUIL DINC CODE: Evisting Preserintive Preserintive Chapter 14	Structural Frame, including columns, girders, trusses >30 0 0 N/A N/A N/A		ASHRAE 90.1: Prescriptive Performance	
Alteration Level I Level II	Bearing Walls Image: Constraint of the second sec	ENERGY SUMMARY ENERGY REOUIREMENTS:	Lighting schedule (each fixture type)	
CONSTRUCTED: (date) N/A CURPENT OCCURANCY(S) (Ch 3): N/A	NorthN/A0N/AN/AN/AN/AEastN/A0N/AN/AN/AN/A	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	lamp type required in fixture <u>*SEE FIXTURE SCHEDULE</u> number of lamps in fixture <u>*SEE FIXTURE SCHEDULE</u>	
RENOVATED: $(date)$ N/A PROPOSED OCCUPANCY(S) (Ch.3): N/A	WestN/A0N/AN/AN/AN/ASouthN/A0N/AN/AN/AN/AN/A	Existing building envelope complies with code: No Yes (The remainder of this section is not applicable)	number of ballasts in fixture <u>*SEE FIXTURE SCHEDULE</u>	
Risk Category (Table 1604.5): Current: I II III IV	Interior N/A Q N/A N/A N/A N/A Nonbearing Walls and <t< td=""><td>Exempt Building: No Yes (Provide code or statutory reference)</td><td>total wattage per fixture <u>SEL FIXTORE SCHEDOLL</u> total interior wattage specified vs. allowed (whole building or space by space) <u>4786 / 5525</u> total exterior wattage specified vs. allowed 351 / 750</td><td></td></t<>	Exempt Building: No Yes (Provide code or statutory reference)	total wattage per fixture <u>SEL FIXTORE SCHEDOLL</u> total interior wattage specified vs. allowed (whole building or space by space) <u>4786 / 5525</u> total exterior wattage specified vs. allowed 351 / 750	
	Partitions Exterior walls	Climate Zone: □ 3A ■ 4A □ 5A Method of Compliance: Energy Code □ Performance ■ Prescriptive	Additional Efficiency Package Options	
BASIC BUILDING DATA	North >30 0 0 N/A N/A N/A East >30 0 0 N/A N/A N/A	ASHRAE 90.1 Performance Prescriptive	C406.2 More Efficient HVAC Equipment Performance	
Construction Type: I-A II-A III-A IV V-A I-B II-B III-B III-B V-B	West >30 0 0 N/A N/A N/A South >30 0 0 N/A N/A N/A	THERMAL ENVELOPE (Prescriptive method only)	C406.3 Reduced Lighting Power Density C406.4 Enhanced Digital Lighting Controls	∥>Щ ≥
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D Standpipes: No Yes Class II III Wet Drv	Interior walls and partitions N/A 0 0 N/A N/A Floor Construction 0 0 N/A N/A N/A	Roof/ceiling Assembly (each assembly) Description of assembly: WOOD TRUSS SUPPORTED ROOF DECK W/ SPRAY FOAM	C406.5 On-Site Kenewable Energy C406.6 Dedicated Outdoor Air System	
Fire District: No Yes Flood Hazard Area: No Yes	Including supporting beams and joists U U U N/A N/A N/A N/A	U-Value of total assembly: U-0.024 R-Value of insulation: R-42		
special inspections Required: No (Contact the local inspection jurisdiction for additional procedures and requirements.)	Floor Ceiling Assembly 0 0 0 N/A N/A N/A Columns Supporting Floors N/A N/A N/A N/A N/A	Skylights in each assembly: $\frac{N/A}{N/A}$		
CDOSS DUIL DINC ADEA TADLE (SO ET)	Roof Construction, including supporting beams and joists 0 0 N/A N/A Roof Ceiling Assembly 0 0 N/A N/A N/A	Total square footage of skylights in each assembly: N/A		
FLOOR EXISTING BUILDING COVERED EXT. SUB-TOTAL UNCOVERED DECK	Columns Supporting Roof 0 0 N/A N/A N/A Shaft Enclosures - Exit N/A N/A N/A N/A N/A	Description of assembly: INSULATED METAL FRAME WITH A STONE VENEER BASE & SIDING		
6th Floor - - - - 5th Floor - - - -	Shaft Enclosures - Other N/A N/A N/A N/A N/A	U-Value of total assembly: $\underline{\text{U-0.064}}$ R-Value of insulation: $\underline{\text{R-13} + \text{R-7.5ci}}$		
4th Floor - - - 3rd Floor - - - 2 1 Fl	Corridor Separation N/A N/A N/A N/A Occupancy/Fire Barrier Separation N/A N/A N/A N/A	Openings (windows or doors with glazing) U-Value of assembly: <u>U-0.05</u>		
Ind Floor -	Party/Fire Wall Separation N/A N/A N/A N/A Smoke Barrier Separation N/A N/A N/A N/A	Solar heat gain coefficient: Projection factor:		
Dasement I<	Smoke Partition N/A N/A N/A N/A N/A Tenant/Dwelling Unit/Sleeping Unit N/A N/A N/A N/A N/A Separation N/A N/A N/A N/A N/A N/A	Door R-Values: Walls below grade (each assembly)		
	Incidental Use Separation N/A N/A N/A N/A N/A * Indicate section number permitting reduction	Description of assembly: INSULATED CMU STEM WALL WITH STONE VENEER U-Value of total assembly: C-0.119		₩ 2 0 0 ₩
ALLOWABLE AREA		R-Value of total assembly: <u>R-7.5ci</u>		Junior LIER ARCH/2011
Primary Occupancy Classification(s): Assembly $\square A-1 \blacksquare A-2 \blacksquare A-3 \square A-4 \square A-5$ Descinces	PERCENTAGE OF WALL OPENING CALCULATIONS	Description of assembly: N/A		TO AND A CHITECTURAL CORRECTION AND A CHITECT
Educational Estimate Estimate Estimates	FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES DEGREE OF OPENINGS PROTECTION (TABLE 705.8) ALLOWABLE AREA (%) ACTUAL SHOWN ON PLANS (%)	U-Value of total assembly: N/A R-Value of total assembly: N/A		100 (²² cert no. 2) . 50681
Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM	30 OR GREATER UP, NS NO LIMIT N/A	Floors slab on grade Description of assembly: SLAB ON GRADE, TURN DOWN		A CARTH CAROLUNA
Institutional \Box I-1 Condition \Box I \Box 2 \Box I-2 Condition \Box I \Box 2		U-Value of total assembly: U-0.057 R-Value of insulation: R-15 for 24"		Anthermonia and a second second
		Horizontal/vertical requirement: N/A		
$\begin{array}{c c} \text{Mercantile} \\ \hline \\ \text{Residential} \\ \hline \\ \text{R-1} \\ \hline \\ \text{R-2} \\ \hline \\ \text{R-3} \\ \hline \\ \text{R-4} \\ \hline \\ \\ \text{Higher} $	LIFE SAFETY SYSTEM REQUIREMENTS			STEPED ARCINE
Storage S-1 Moderate S-2 Low High-piled Parking Garage Open Enclosed Repair Garage	Emergency Lighting: No Yes Exit Signs: No Yes	STRUCTURAL DESIGN		A hudballer
A accessory Occurrency Classification (c): S-2	Fire Alarm: Image: No Yes Smoke Detection Systems: Image: No Image: Yes Carbon Monovide Detection: Image: No Image: Yes	DESIGN LOADS: AND GEOTECH		RO HOPTH CAROLT
Incidental Uses (Table 509): N/A		Importance Factors:Snow (I_S) 1.0 $I(I_F)$ $I(I_F)$ Seismic (I_F) 1.0		MOUN 1/12/2024
Special Uses (Chapter 4 - List Code Sections): N/A Special Provisions: (Chapter 5 - List Code Sections): N/A	LIFE SAFETV PLAN REQUIREMENTS	Live Loads: Roof $\frac{20}{40}$ psf		
Mixed Occupancy: \square No \blacksquare YesSeparation: N/A Hr.Exception: N/A	Life Safety Plan Sheet #: G1.1	Attic <u>40</u> psr Floor <u>100</u> psf		GENERAL NOTE: Prior to construction
Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable conversion to the article building. The	 Fire and/or smoke rated wall locations (Chapter 7) Assumed and real property line locations (if not on the site plan) 	Ground Snow Load: <u>15</u> psf		start. Contractor shall verify & be responsible
most restrictive type of construction, so determined, shall apply to the entire building.	 Exterior wall opening area with respect to distance to assumed property lines (705.8) Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2) 	Wind Load: Ultimate Wind Speed 113 mpn (ASCE-7) Exposure Category C		tor all Dimensions.
Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the	 Occupant loads for each area Exit access travel distances (1017) 	SEISMIC DESIGN CATEGORY: \Box A \blacksquare B \Box C \Box DDenside the full \Box is \Box is \Box is \Box is \Box . \Box is \Box is \Box is \Box is \Box . \Box is \Box is \Box is \Box is \Box .		Description Date
sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.	Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))	Provide the following Seismic Design Parameters: Risk Category (Table 1604.5)		
$\frac{Actual Area of Occupancy A}{Allowable Area of Occupancy B} + \frac{Actual Area of Occupancy B}{Allowable Area of Occupancy B} <1$	Clear exit widths for each exit door	Spectral Response Acceleration S _s <u>14.0</u> %g S ₁ <u>6.9</u> %g		
Allowable Area of Occupancy A Allowable Area of Occupancy B	 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) 	Data Source: ■ Field Test □ Presumptive □ Historical Data		
$ + + = - \leq 1.00$	 Actual occupant load for each exit door A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is 	Basic structural system Bearing Wall Dual w/Special Moment Frame Building Frame Dual w/Intermediate R/C or Special Steel		Date Project No. FEB 12 CONTAC
	provided for purposes of occupancy separation ■ Location of doors with panic hardware (1010.1.10)	Analysis Procedure: Moment Frame Inverted Pendulum Analysis Procedure: Simplified Equivalent Lateral Force Dynamic		2024 22042 Drawn By Sheet No
	 □ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7) □ Location of doors with electromagnetic egress locks (1010.1.9.9) 	Architectural, Mechanical, Components anchored? Yes No		
	Location of doors equipped with hold-open devices Location of emergency escape windows (1030)	SOIL BEARING CAPACITIES: Field Test (provide conv of test report) *N/A psf		
			• •	
	☐ The square footage of each fire area (202) ☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)	Presumptive Bearing capacity *N/A psf Pile size, type, and capacity *N/A		



EGRESS DESIGN C	CCUPANT LOAE)	LIFE SAFETY LEGEND
SPACE	SF / AREA PER OCCUPANT (PER TABLE 1004.1.2)	LOAD	
BUSINESS	3,143 SF / 100 GROSS	31	
	442 SF / 200 GROSS	2	
ASSEMBLY: A-2	1,543 SF / 15 NET	103	
ASSEMBLY: A-3	1.475 SF / 35 NET	42	- XX" DOOR / 0.2"- EGRESS CAPACITY FACTOR
	771 SE / 300 GROSS	3	- XXX OCC. ALLOWED- EGRESS CAPACITY ALLOWED
	1 076 SF	-	ANTICIPATED EGRESS LOAD
STRUCTURE	264 SF	-	
GROSS BUILDING AREA TOTAL	8,714 SF	181	
OUTDOOR DECK	1,323 SF / 15 GROSS	88	
TOTAL OCCUPANT LOAD		269	COMMON PATH OF TRAVEL
FITMESS CLASSROOM 105 4 1481 SF 35 143 STOR 105A STOR 105A 36"CLEAR/0.3 280 OCCUPANTS ALLOWED	0.3 = ANTS ALLOWED		FEC FIRE EXTINGUISHER IN CABINET SEMI- FE FIRE EXTINGUISHER - SURFACE MOUNTED H HANDICAP DOOR OPERATOR WALL MOUNTED SWITCH P PANIC HARDWARE DE # DELAYED EGRESS PANIC HARDWARE NUMBER INDICATES LENGTH OF DELAY IN SECONDS EXIT SIGN/EMERGENCY LIGHT (SEE NOTE 1) EXIT SIGN/EMERGENCY LIGHT (SEE NOTE 1) EMERGENCY LIGHT (SEE NOTE 1) H HORN TYPE AUDIO/VISUAL APPLIANCE (SEE NOTE 1) F FIRE ALARM PULL STATION (SEE NOTE 1) NOTES: 1. SEE ELECTRICAL PLANS FOR COMPLETE DESCRIPTION OF DEVICES AND ADDITIONAL DETAILS INCLUDING MOUNTING AND PLACEMENT. DOOR CLEARANCE LEGEND FRONT APPROACH - PULL SIDE HINGE APPROACH - PULL SIDE HINGE APPROACH - PULL SIDE HINGE APPROACH - PUSH SIDE
86 ACTUAL			Image: spectral spectra spectral spectral spectral spectral spectral spectral spectral sp



8' 4' 0' 4' 8'

| 16'

INDEX

CE-00	COVER SHEET
CE-01	DEMOLITION PLAN
CE-02	SITE and UTILITY PLAN
CE-03	GRADING PLAN
CE-04	EROSION CONTROL PLAN
CE-05	LANDSCAPING PLAN
D-01	EROSION CONTROL DETAILS
D-02	EROSION CONTROL DETAILS
D-03	NPDES DETAILS
D-04	NPDES DETAILS
D-05	SITE NOTES
D-06	SITE DETAILS

Owner/Developer

GRANVILLE COUNTY 104 Bell Street Oxford, NC 27565

Civil Engineering:

Stocks Engineering, P.A. 801 East Washington Street Nashville, NC 27856

Phone: 252.459.8196 252.459.8197 Fax

Contact: J. Michael Stocks mstocks@stocksengineering.com

Architect:

Oakley Collier Architects, PA 109 Candlewood Drive Rocky Mount, N.C. 27804 Phone: (252) 937-2500 Contact: David Griffin

Surveying:

Barry H. Oaks Surveying, PA 6650 Sidney Cottrell Road P.O. Box 2059

Phone: (919) 693-3260

Contact: Barry H. Oaks bhospa@gmail.com

New facility for:

North Granville County Senior Center Stovall, North Carolina

General Notes:

- 1. Topographical data performed by Barry H. Oaks Surveying, PA 2. The contractor shall notify and cooperate with all utility companies or firms having facilities on or adjacent to the site before disturbing, altering, removing, relocating, adjusting or connecting to said facilities.
- 3. All excavation is unclassified and shall include all materials encountered.
- 4. All structural fill material shall be free of all sticks, rocks, and clumps of mud.
- 5. Unusable excavated materials and all waste resulting from clearing and grubbing shall be disposed of off-site by the contractor in an approved solid waste landfill. 6. Location of underground utilities are approximate and must be field verified. Contact the NC One Call Center at least 72 hours prior to digging @ 1.800.632.4949. Surveyor has only located the utilities that are above ground at the time
- of field survey. Underground lines shown hereon are approximate or as reported by various responsible parties. The surveyor does not guarantee that any underground structures such as utilities, tanks and pipes are located hereon. 7. All pipe lengths are horizontal distances and are approximate.
- 8. All work shall comply with all applicable codes, regulations, and/or local standards imposed by the Town of Salemburg. and NCDOT. 9. All construction and materials shall meet NCDOT standards, latest edition. All work within
- within NCDOT right-of-way shall meet the specifications and standards of NCDOT.
- 10. All concrete pipe is to be ASTM C-76, Class III with ram-nek.
- 11. This property is not located in a Special Flood Hazard zones per FEMA Map.
- 12. All lot dimensions shown are approximate. Consult the boundary survey of actual site boundary information.
- 13. The contractor shall be responsible for all work zone traffic control in or adjacent to NCDOT right-of-way. All signs, pavement markings and other traffic control devices shall conform to the Manual on Uniform Traffic Control Devices (MUTCD), 2003 edition as amended. 14. Prior to placing CABC stone base, the contractor should notify the Geotechnical Engineer to
- inspect and proof roll the subgrade. Any stone placed without prior approval will be the sole responsibility of the contractor. 15. DESIGN/FIELD CONDITIONS quite easily may vary from that represented in the initial soils report and/or topographical report. Isolated areas may show up weak and adverse soils or groundwater conditions may be discovered that were not revealed during the initial soils investigation. Therefore, the Contractor is to be aware that Stocks Engineering, P.A. will not and cannot be held responsible for any failures to either a street or parking lot pavement design as a result of soil conditions.
- 16. All utility services, (power, telephone, cable, etc.) are proposed to be underground. Do not seed or mulch disturbed areas until all underground utilities have been installed.
- 17. Regulatory signs, stops signs and street name signs shall be manufactured from high intensity reflective materials.
- 18. All excess topsoil and unclassified excavation is to be hauled off-site, unless otherwise
- directed by the owner. 19. All site construction must be inspected by The Project Engineer or Architect, as applicable, at the following stages:
- A. Completion of grading subgrade prior to placing Stone Base. B. Completion of Stone placement prior to paving.
- C. Final inspection when all work is complete.
- 20. The surveyor did not visibly see any cemeteries in any open areas unless otherwise noted. 21. This property does not depict encumbrances that are found during a thorough title search.
- 22. Concrete Sub shall be responsible for all score joints and expansion joints. 23. All on-site curb and gutter to be as shown on plans. Curb and gutter within NCDOT
- right-of-way to be 30" standard. 24. All curb and gutter and sidewalk concrete is to be minimum 3,000 psi at 28 days, air
- entrained. 25. Contractor to furnish all paint striping and thermoplastic (as required by NCDOT) as shown. 26. All dimensions are to edge of pavement (EOP) unless indicated otherwise.
- 27. Contractor SHALL NOT POUR any concrete before forms are inspected by the Civil engineer and/or owner. Any concrete that has not been approved by the engineer and/or owner will be the responsibility of the contractor.
- 28. Contractor shall saw-cut to provide smooth transitions where existing asphalt and/or curb and gutter is to be removed. 29. The contractor shall provide all the material and appurtenances necessary for the complete
- installation of the utilities. All pipe and fittings shall be inspected prior to being covered. A minimum of 24 hours notice shall be given to the inspector prior to covering pipe or blockings. 30. Information concerning underground utilities was obtained from available records and field
- conditions when possible, but the contractor must determine the exact location and elevation of all existing utilities by digging test pits by hand at all utility crossings well in advance of trenching. If the clearances are less than specified on the plans or 12 inches, which ever is less, contact the project engineer and the Owner prior to proceeding with construction.
- 31. The contractor is responsible for the design and implementation of all required/necessary sheeting, shoring, and special excavation measures required on the project to meet OSHA, Federal, State and Local regulations pursuant to the installation of the work indicated on the drawings. The Owner and Stocks Engineering, P.A. accept no responsibility for the design to install said items.
- 32. The contractor shall include in the contract price daily record keeping of the as-built condition of all of the underground utilities, construction stakeout associated with the project. Preparation of the necessary/required as-built plans to be submitted to the The Engineer and all other information required in connection with Final Payment.
- 33. The Land Disturbance Permit must be kept on the work site and shown upon request. 34. The contractor shall include in the contract price any de-watering necessary to construct the project as shown on the plans.
- 35. The contractor shall include in the price, any and all costs associated with providing a professional Surveyor on site, during the construction of the storm water management facilities, underground utilities, etc. as required for as-built certification. 36. All grass, topsoil and 'building debris material' dumped onsite shall be removed in the
- base bid prior to placement of structural fill material. 37. All generated waste shall be disposed of off-site in an approved landfill location.

- **GENERAL NOTES:** (LOCAL JURISDICTION)
- attention prior to construction. 2. Written dimensions supercede scaled dimension. All dimensions are
- storm sewer unless otherwise noted.

drawinas.

- minimum required.

SITE INFORMATION LOCATION:...

COUNTY:.... TOTAL SITE ACREAGE:.....

ZONING:. MINIMUM BUILDING SETBACKS FRONT: SIDE: REAR:

EXISTING USE: ... PROPOSED USE:.... TOTAL BUILDING SIZE:

TAX ID:.... PRO. IMPERVIOUS ADDITION: RIVER BASIN: ... DISTURBED AREA:

1. Any discrepancies in layout should be brought to the Engineer's

edge of pavement, unless noted otherwise. If dimensions not shown, contractor shall submit RFI and not attempt to scale dimensions from

3. All streets noted as "PUBLIC" shall meet NCDOT minimum standards. 4. Flared end sections are to be used on both inlet and/or outlet ends of

5. Each prime contractor performing excavations or underground work shall be responsible for the location of any existing utilities in the area of their work. Notify the utility locator service (1-800-632-4949) at least 48 hours prior to commencing construction in order that existing utilities in the area may be flagged and staked. Contractor shall use all care necessary when working in areas known or suspected to

contain underground utilities, including hand digging. 6. The contractor is responsible for relocating any existing utilities that conflict with the proposed construction. In addition, the contractor is responsible for repair and replacement of any utilities, curb and gutter, pavement, etc. that may be damaged during construction. Damaged items shall be repaired to at least the quality of the original workmanship. The contractor shall field verify depth of existing utilities and relocate if proposed grading causes utility cover to be less than

7. All temporary erosion control measures shall be inspected after each rain event and necessary repairs shall be done as required.

	OXFORD STRRR
31	IUVALL, N.C.
GF	RANVILLE COUNTY
4.	43 Ac.
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S:	
)'
	5'
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V	
SE	ENIOR CENTER
7,	558 Sq. Ft.
	28–1971–2544
±(0.95 Ac.
NE	EUSE
	10 Ac.

ШШ 0 Ш 0 VILLE Ŷ Ζ PRELIMINARY NOT FOR CONSTRUCTION PRELIMINARY NOT FOR CONSTRUCTION GENERAL NOTE: Prior to construction start. Contractor shall verify & be responsible for all Dimensions. # Description Date OCA COMMENTS 2/5/24

SE PROJECT #2023-061

WWW.STOCKSENGINEERING.COM

P.O. BOX 1108 PHONE: (252) 459–8196

SE PROJECT **#**2023-061

CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL ABOVE AND UNDERGROUND UTILITIES WITHIN THE WORK AREA, INCLUDING, BUT NOT LIMITED TO, GAS, ELECTRIC, SEWER, WATER, FIBER OPTIC, STORM

CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANIES PRIOR TO BEGINNING DEMOLITION.

BUILDINGS NOT SHOWN AS BEING DEMOLISHED IN THIS PHASE SHALL REMAIN OPEN AND OPERATIONAL.

CONTRACTOR SHALL INCLUDE THE REMOVAL OF ALL VEGETATION AND LANDSCAPING WITHIN THE WORK AREA IN BID PRICE.

CONTRACTOR TO VERIFY THE UTILITIES TO BE REMOVED ONLY SERVE THE BUILDING TO BE DEMOED PRIOR TO DEMOLITION. ALL SURROUNDING BUILDINGS TO REMAIN FULLY OPERATIONAL.

ALL WELLS TO BE ABANDONED PER NCPWS STANDARDS. CONTRACTOR SHALL USE CERTIFIED WELL ABANDONMENT CONTRACTOR.

PRELIMINARY NOT FOR CONSTRUCTION

GENERAL NOTE: Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Description Date 1 OCA COMMENTS 2/5/24

Date

OCT 12 2023

Drawn By

Author

Checked By

Checker

Project No.

22042

Sheet No.

CE-01

Sheet Title DEMOLITION

PLAN

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SE PROJECT #2023-061

Notification of Land Resources Sediment and Erosion Control Self Inspection Program: The Sedimentation Pollution Control Act was amended in 2006 to require persons responsible for land disturbing activities inspect a project after each phase of the project to make sure that the approved erosion and sedimentation control plan is being followed. Rules detailing the documentation of these inspections took effect October 1, 2010. To simplify documentation of Self-Inspection Reports and NPDES Self-Monitoring Reports, a combination form is now available. The new form was developed to satisfy the requirements of the Sedimentation Pollution Control Act and the NPDES Stormwater Permit for Construction Activities, NCG 010000. Beginning August 1, 2013, the Division of Energy, Mineral, and Land Resources is responsible for administering both the SPCA and the NPDES Stormwater Permit for Construction Activities, NCG 010000. The combined form should make it easier to comply with self-inspection requirements.

The Combined Self—Monitoring form is availible as a PDF and Word document from the Land Quality web site, <u>http://portal.ncdenr.org/web/Ir/erosion</u> If you have questions, please contact the Land Quality Section at a DENR Regional Office.

STOWL BUTTST CHURCH NO. DECED BOOK 740, PROE 143 PAR BOOK 71, PROE 149 PAR BOOK 71, PROE

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ROSION AND SEDIMEI	NTATION CONTRO)L NARRAT	IVE			SKIM	MER SEDIMEN
PROJECT DESCRIPTION The purpose of this purpose of this purpose the property is owned	roject is for constr by Granville Count	uction of a	Senior Center. is currently vacant			ARM	
Approximately 2.55 ac	res will be disturbe	d during cor	nstruction. The maximum	n fill will be 5—7 feet.			
The project is schedul stabilization by July 20	ed to begin constru 024. The erosion of witchle construction	uction in Jar and sedimen	nuary 2024 with project t control program for th	completion and final is project will include			
and skimmer basin wit	th temporary seedir	ng of the sit	e.				
The adjacent property	is mostly zoned re	esidential.					PERSPECTIVE
SOILS The soil at this site is	s a sandy clay.				PVC	END CAP	NOT TO SCALE
All vegetative and strumaintained by the con	ictural erosion and	sediment co these play	ontrol practices shall be and specifications and	constructed and the minimum			PVC ELBOW
standards of the Dept County. The contract Engineer.	. of Environmental or shall also follow	Management any additior	, Land Quality Section a nal requirements as outli	nd Johnston ned by the Project			.)
tructural Practices	ha alaan whan laa	ving the city	to provent the tracking	a of mud on pound	PVC	END CAP	
roads. 2. Construction Road	be clean when lea Stabilization: Const	ving the site ruction traff	e to prevent the tracking ic shall be limited to sta	g of mua on pavea abilized areas. At a		FVC IEL-	1/2 HOLES IN UNDERSIDE
drawing. 3. Silt Fence: Silt fence	/ gravel constructio ces shall be provide	n entrance : ed where sho	shall be provided as sho own and as needed on t	wn on this he site plan. These			
barriers shall be used 4. Rip Rap/Gravel Filte	to contain sedimer er Sediment Basins: b is to be placed b	nt. Construct	basin to the shape and	dimensions shown in 2' with the berm built			W
above as dimensioned.	i is to be placed b		sting ditch now line by			NOT TO SCALE	
 anagement Strategies Perimeter measures Tail Ditches shall be 	are to be installed e stabilized immedi	d prior to gr ately followin	ubbing or grading. In their construction. A	s an alternate, rock			
check dams may be p disturbance until grour	provided at their ound cover is implement	tlets and/or ented.	the terminal downstrea	m end of			
 Stockpile and/or we proposed measures an Construction shall to the stock of the sto	aste areas must be Id otherwise tempor De planned so that	e maintained arily seeded grading ope	if to be left stockpiled rations can begin and e	areas protected by the over 15 calender days. nd as quickly as			
possible. 5. Silt Fences shall als 6. The Contractor sha	so be installed prio Il be responsible fo	r to or as c r the install	i first step in constructi ation and maintenance c	on. f all erosion and			1 A
sediment control pract getative Ground Cover	tices.	L - 11 -	-11				
Immediately following of applicable, as follows:	grading, all areas s	hall receive	either permanent or tem	iporary seeding, as -			
Site Area Description:	Stabilization Time Fram	e: Stabilization	Time Frame Exceptions:				KA I
Perimeter dikes, swales, ditches & slopes.	7 Days	None					
High Quality Water (HQW) Zones.	7 Days	None			INFLOW STRUCTURE		Terre
Slope steeper than 3:1	7 Days	If slopes ar not steeper	e 10' or less in length & are than 2:1, 14 days are allowed				
Slopes 3:1 or flatter.	14 Days	7 Days for	slopes greater than 50 feet				\searrow
All other areas with slopes	14 Days	None (Exce	pt for perimeters and HQW				
	•			1		Ň	
TEMPORARY SEE	DING SPECIFIC	<u>ATIONS</u>					
SPECIES			RATE (LB/ACRE)				PLAN VIEW
WINTER/EARLY SPRING KOBE LESPEDEZA	– RYE (GRAIN)		120 50			Ν	OT TO SCALE
SUMMER – GERMAN MI	LLET		40			_ INELOW	
PERMANENT SEE	DING SPECIFIC	<u>ATIONS</u>			-		BA
SEEDING MIXTURE						«	14
KY 31 TALL FESCUE	KY 31 TALL FE	SCUE	NUV-JAN KY 31 TALL FESCUE		FILTER FAI		
UNHULLED	© 1,000 LBS/A PLUS PREMIUM	BERMUDA	© 1,000 LBS/ACRE PLUS RYE GRAIN				
PREMIUM BERMUDA © 125 LBS/ACRE	@ 125 LBS/AC	ΚF	Ø 40 LBS/ACRE PLUS UNHULLED			SEDIMENT STORAGE	
			PREMIUM BERMUDA @ 125 LBS/ACRE				N
NURSF PLANTS						<u>(</u>	FICATIONS
BETWEEN APR. 15 AND OR AFTER AUG. 15 AD	AUG. 15, ADD 10 D 25 LB/ACRE RYF	LB/ACRE GE (GRAIN).	RMAN MILLET OR 15 LB/	ACRE SUDANGRASS. PRIOR TO MAY	1	1. Clear, grub, and s stocknile or dispose	trip the area under the emb
	_,	、				2. Ensure that fill m	aterial for the embankment
APPLY LIME AND FERT	ILIZER ACCORDING 1	TO SOIL TEST	. IF SOIL TEST IS NOT A	VAILABLE APPLY 2 TONS/ACRE AGRIC	CULTURAL	3. Shape the basin t low support under th	o the specified dimensions. e skimmer of stone or time
PRIOR TO MAY 1 OR A	FTER AUG 15, ADD	25 LB/ACRI	E RYE (GRAIN).	J,000-J,000 LB/AUKE SEDANGKASS.		4. Place the barrel (typically 4-inch Schedule 40
						same density as the	adjacent embankment. Car
TACKING WITH ASPHAL	T, NETTING, OR ROV	ING OR BY	CRIMPING WITH A MULCH	ANCHORING TOOL. A DISK WITH		Place a minimum de installed by outting a	oth of 2 feet of compacted
MAINTENANCE	CHANGER OAN DE U	JED AJ A M	CLOT ANOTONING TOOL.			5. Assemble the skin	nmer following the manufact skimmer on the better of
IF GROWTH IS LESS TH TOPDRESS WITH 500 LI	AN FULLY ADEQUAT B/ACRE 10-10-10	TE, REFERTILI FERTILIZER.	ZE THE SECOND YEAR. MOW AS NEEDED WHEN	ACCORDING TO SOIL TESTS OR SERICEA IS OMITTED FROM THE		o. Lay the assembled the skimmer over the skimmer to the side	e skinimer on the bottom of e excavated pit or support. for maintenance
MIXTURE. RESEED, FEI	RTILIZE, AND MULCH	I DAMAGED	AREAS IMMEDIATELY.			7. Earthen spillways	- Install the spillway in undi
aintenance			a fact (limited to E%			fabric must be wide	and long enough to cover the succes
2. Maintain all seeded 3. If growth is not es	areas until uniform ablished by final p	n stand is a roject inspec	cceptable. ction, continue specified	attention until the		o-mich staples or pli or spliced; otherwise	water can get under the fa
stand is acceptable. 4. Correct and repair 5. Remove from the s	all undue settling c site, all erosion con	nd erosion trol structur	within 1 year after final es after complete stabili	inspection. zation at end of		complete width, may the fabric in a trenci	pe used. The upper section h with staples or pins.
construction period. 6. Remove silt from s the pit or spillway	ediment pits and fi	rom behind	check dams when silt is	within half depth of trap.		ö. iniets – Discharge water to the upper e	water into the basin in a r nd of the pool area to impi
l <u>c</u> ulations			service reconter pit /			9. Erosion control – area is cleared. Sta	construct the structure so bilize the emergency spillway
The practice utilized for provided.	or the proposed sit	e did require	e formal calculations. C	alculations have been		10. Install porous bai 11. After all the sedi	nes as specifiea. ment-producing areas have . atabiliza and i
						adjoining areas and s MAINTENANCE:	stadilize properly.
GHANVILLE C 104 Bell Street						Inspect skimmer sed	iment basins at least weekly
Oxford, NC 27565 Phone: (919) 693-5	240					restore the basin to sediment underneath	it can be excavated. Exca m of the basis
						growing in the botto	they are demand on the
CONSTRUCTION						πepair the Dattles if	uley ure admaged. Ke-and
1. Obtain erosion con	trol plan approval	prior to be	ginning land disturbance	. Retain a copy of the approved		and restore flow. If if it is clogged; if so	this does not work, pull the remove the debris.

- erosion control plan and permit on site. Call NCDEQ to notify the Inspector of a start date prior to land disturbance.
- 2. Clear the area needed to construct the perimeter erosion control measures only. 3. Construct the construction entrance as shown on the plans. Maintain the construction entrance daily to ensure that mud and silt will not be tracked onto the paved surface. If mud is tracked onto the road surface, it is to be removed immediately.
- Construction entrance location may not vary without prior approval from Engineer and NCDEQ. Construct silt fence where shown to contain sediment onsite.
- Construct sediment basins. Stabilize immediately. Install all temporary diversions and mat per detail. Seed immediately.
- Begin clearing and grubbing.
- Begin topsoil stripping.
- 10. Rough grade all parking and site. 11. Install Drainage w/Inlet Protections.
- 12. Construct CABC on parking lot.

15. Seed, straw and tack any remaining exposed areas.

- 13. Seed, straw and tack areas that are graded to their final disposition. 14. Upon completion of the project, contact Engineer to inspect prior to removing EC measures.

Maintenance Notes:

from the skimmer and pool areas.

- applying temporary seeding.
- the next day's operation continues.

CROSS-SECTION VIEW NOT TO SCALE

bankment of all vegetation and root mat. Remove all surface soil containing high amounts of organic matter and ectionable material to the designated disposal area. Place temporary sediment control measures below basin as needed. is free of roots, woody vegetation, organic matter, and other objectionable material. Place the fill in lifts not to exceed e embankment 6 inches to allow for settlement. Prevent the skimming device from settling into the mud by excavating a shallow pit under the skimmer or providing a

0 PVC pipe) on a firm, smooth foundation of impervious soil. Do not use pervious material such as sand, gravel, or e the fill material around the pipe spillway in 4-inch layers and compact it under and around the pipe to at least the re must be taken not to raise the pipe from the firm contact with its foundation when compacting under the pipe

I backfill over the pipe spillway before crossing it with construction equipment. In no case should the pipe conduit be after the embankment is complete.

turers instructions, or as designed. of the basin with the flexible joint at the inlet of the barrel pipe. Attach the flexible joint to the barrel pipe and position Be sure to attach a rope to the skimmer and anchor it to the side of the basin. This will be used to pull the

listurbed soil to the greatest extent possible. The achievement of planned elevations, grade, design width, and entrance essful operation of the spillway. The spillway should be lined with laminated plastic or impermeable geotextile fabric. The the bottom and sides and extend onto the top of the dam for anchoring in a trench. The edges may be secured with g enough to extend down the slope and exit onto stable ground. The width of the fabric must be one piece, not joined abric. If the length of the fabric is insufficient for the entire length of the spillway, multiple sections, spanning the on(s) should overlap the lower section(s) so the water cannot flow under the fabric. Secure the upper edge and sides of

manner to prevent erosion. Use temporary slope drains or diversions with outlet protection to divert sediment-laden prove basin trap efficiency. that the disturbed area is minimized. Divert surface water away from bare areas. Complete the embankment before the y embankment and all other disturbed areas above the crest of the principal spillway immediately after construction.

been permanently stabilized, remove the structure and all the unstable sediment. Smooth the area to blend with the

ly and after each significant (one-half inch or greater) rainfall event and repair immediately. Remove sediment and n sediment accumulates to one-half the height of the first baffle. Pull the skimmer to one side so that the cavate the sediment from the entire basin, not just around the skimmer or the first cell. Make sure vegetation old down the skimmer.

nchor the baffles if water is flowing underneath or around them.

is water in the basin, usually jerking on the rope will make the skimmer bob up and down and dislodge the debris e skimmer over to the side of the basin and remove the debris. Also check the orifice inside the skimmer to see

If the skimmer arm or barrel pipe is clogged, the orifice can be removed and the obstruction cleared with a plumber's snake or by flushing with water. Be sure and replace the orifice before repositioning the skimmer.

Check the fabric lined spillway for damage and make any required repairs with fabric that spans the full width of the spillway. Check the embankment, spillways, and outlet for erosion damage, and inspect the embankment for piping and settlement. Make all necessary repairs immediately. Remove all trash and other debris

Freezing weather can result in ice forming in the basin. Some special precautions should be taken in the winter to prevent the skimmer from plugging with ice.

1. Do not let any area remained exposed for more than 7 or 14 calendar days according to chart without

2. Maintain all erosion control measures daily and reseed disturbed areas as needed.

3. Inspect all erosion control measures weekly and after each rainfall event. Repair as needed. 4. At the end of each day's storm drainage operation, construct a temporary pipe inlet protection device until

SED BASIN BAFFLES SCALE: N.T.S.

1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT. 2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT. 3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET. 4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

MAINTENANCE: MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

STOCKS ENGINEERING 801 EAST WASHINGTON STREET

NASHVILLE, N.C. 27856 PHONE: (252) 459-8196 WWW.STOCKSENGINEERING.COM

P.O. BOX 1108

SE PROJECT #2023-061

L_1'-8" MIN.

STOCKS ENGINEERING 801 EAST WASHINGTON STREET NASHVILLE, N.C. 27856 WWW.STOCKSENGINEERING.COM Project No.

22042

Sheet No.

D-02

Sheet Title

EROSION NOTES/DETAILS

Date

OCT 12

2023

Drawn By

Author

Checked By

Checker

P.O. BOX 1108

PHONE: (252) 459-8196

SE PROJECT #2023-061

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

mplementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

F Site Area Description	equired Ground Sta Stabilize within t many calendar days after ceasing land disturbance	abilization Timeframes his Timeframe variations g
 Perimeter dikes, swales, ditches, and perimeter slopes 	7	None
b) High Quality Water (HQW) Zones	7	None
c) Slopes steeper thar 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
d) Slopes 3:1 to 4:1	14	 -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
e) Areas with slopes flatter than 4:1	14	 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope
racticable but in no case ctivity. Temporary grou urface stable against acc ROUND STABILIZATION	longer than 90 cale nd stabilization shal elerated erosion un SPECIFICATION	Indar days after the last land disturbing be maintained in a manner to render the til permanent ground stabilization is achieved.
acticable but in no case stivity. Temporary grou rface stable against acc ROUND STABILIZATION abilize the ground suffic chniques in the table b	longer than 90 cale nd stabilization shal elerated erosion un SPECIFICATION ciently so that rain we	indar days after the last land disturbing be maintained in a manner to render the til permanent ground stabilization is achieved.
acticable but in no case stivity. Temporary grou inface stable against acc ROUND STABILIZATION abilize the ground suffic chniques in the table be Temporary Sta • Temporary grass seed co other mulches and tackif • Hydroseeding • Rolled erosion control pr without temporary grass • Appropriately applied str	longer than 90 cale nd stabilization shal elerated erosion un SPECIFICATION ciently so that rain we elow: bilization vered with straw or ers oducts with or seed aw or other mulch	 Inder the product stabilization as soon as soon as soon as soon as endar days after the last land disturbing l be maintained in a manner to render the til permanent ground stabilization is achieved. will not dislodge the soil. Use one of the Permanent Stabilization Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered
racticable but in no case ctivity. Temporary grou urface stable against acc ROUND STABILIZATION abilize the ground suffice chniques in the table but <u>Temporary Sta</u> • Temporary grass seed co other mulches and tackif • Hydroseeding • Rolled erosion control pr without temporary grass • Appropriately applied str • Plastic sheeting	longer than 90 cale nd stabilization shal elerated erosion un SPECIFICATION ciently so that rain we elow: bilization vered with straw or ers oducts with or seed aw or other mulch	 Indert ground stabilization as soon as endar days after the last land disturbing l be maintained in a manner to render the til permanent ground stabilization is achieved. vill not dislodge the soil. Use one of the Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed

EQUIPMENT AND VEHICLE MAINTENANCE

- 1. Maintain vehicles and equipment to prevent discharge of fluids.
- 2. Provide drip pans under any stored equipment.
- 3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- 4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
 - Remove leaking vehicles and construction equipment from service until the problem has been corrected.
 - Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

TER. BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers. Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

INT AND OTHER LIQUID WASTE

- Do not dump paint and other liquid waste into storm drains, streams or wetlands. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

RTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

RTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

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PRELIMINARY NOT FOR CONSTRUCTION

PRELIMINARY NOT FOR CONSTRUCTION

GENERAL NOTE:

Prior to construction start. Contractor shall

verify & be responsible for all Dimensions.

Description Date

Project No. 22042

Sheet No.

D-03

Sheet Title

NPDES

SHEET

OCT 12 2023

Drawn By

Author

necked By

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	SELF-INSPECTIO	PART III ON, RECORDKEEPING AND REPORTING	
SECTION A: SEL Self-inspections below. When a bersonnel to be which it is safe t greater than 1.0 berformed upor	F-INSPECTION are required duri dverse weather or in jeopardy, the i to perform the ins) inch occurs outsi n the commencem	ng normal business hours in accordance with the table r site conditions would cause the safety of the inspection nspection may be delayed until the next business day on pection. In addition, when a storm event of equal to or de of normal business hours, the self-inspection shall be nent of the next business day. Any time when inspections	SECTIC 1. E&S The appr The insp
were delayed sł	nall be noted in th Frequency (during normal business hours)	e Inspection Record. Inspection records must include:	(a) Ea and d
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un- attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device	show
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event \geq 1.0 inch in 24 hours	 approved by the Division. 1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken. 	(b) A (c) G in acc plan.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	 Identification of the discharge outfalls inspected, Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, Indication of visible sediment leaving the site, 	(d) T requi have
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	 6. Description, evidence, and date of corrective actions taken. If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future 	2. Add In ac
 (5) Streams or wetlands onsite or offsite (where accessible) (6) Ground stabilization measures 	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours After each phase of grading	releases.If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made:1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover).2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.	site a Divis this r (a) (b)

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit, (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

ECORDKEEPING

Documentation

ved E&SC plan as well as any approved deviation shall be kept on the site. The E&SC plan must be kept up-to-date throughout the coverage under this permit. ing items pertaining to the E&SC plan shall be kept on site and available for at all times during normal business hours.

em to Document	Documentation Requirements
C measure has been installed significantly deviate from the nensions and relative elevations e approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
over is located and installed e with the approved E&SC	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
ntenance and repair s for all E&SC measures erformed.	Complete, date and sign an inspection report.
ve actions have been taken sures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

Documentation to be Kept on Site

to the E&SC plan documents above, the following items shall be kept on the ailable for inspectors at all times during normal business hours, unless the ovides a site-specific exemption based on unique site conditions that make ment not practical:

eneral Permit as well as the Certificate of Coverage, after it is received.

s of inspections made during the previous twelve months. The permittee shall the required observations on the Inspection Record Form provided by the or a similar inspection form that includes all the required elements. Use of onically-available records in lieu of the required paper copies will be allowed if to provide equal access and utility as the hard-copy records.

tion to be Retained for Three Years

d to complete the e-NOI and all inspection records shall be maintained for a period ars after project completion and made available upon request. [40 CFR 122.41]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING **SECTION C: REPORTING 1. Occurrences that Must be Reported** Permittees shall report the following occurrences: (a) Visible sediment deposition in a stream or wetland. • They are 25 gallons or more, • They are less than 25 gallons but cannot be cleaned up within 24 hours,

• They cause sheen on surface waters (regardless of volume), or

(b) Oil spills if:

- They are within 100 feet of surface waters (regardless of volume).
- (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the environment.
- **2.** Reporting Timeframes and Other Requirements reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Re	porting Timeframes (After D
(a) Visible sediment	•	Within 24 hours, an oral or e
deposition in a	•	Within 7 calendar days, a re
stream or wetland		sediment and actions taken t
		Division staff may waive the
		case-by-case basis.
	•	If the stream is named on the
		related causes, the permittee
		monitoring, inspections or ap
		determine that additional re-
		with the federal or state imp
(b) Oil spills and	•	Within 24 hours, an oral or e
release of		shall include information abo
hazardous		location of the spill or release
substances per Item		
1(b)-(c) above		
(c) Anticipated	•	A report at least ten days be
bypasses [40 CFR		The report shall include an e
122.41(m)(3)]		effect of the bypass.
(d) Unanticipated	•	Within 24 hours, an oral or e
bypasses [40 CFR	•	Within 7 calendar days, a re
122.41(m)(3)]		quality and effect of the bypa
(e) Noncompliance	•	Within 24 hours, an oral or e
with the conditions	•	Within 7 calendar days, a re
of this permit that		noncompliance, and its cause
may endanger		including exact dates and tim
health or the		been corrected, the anticipat
environment[40		continue; and steps taken or
CFR 122.41(I)(7)]		prevent reoccurrence of the
	•	Division staff may waive the
		case-by-case basis.

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be

Discovery) and Other Requirements

electronic notification. eport that contains a description of the to address the cause of the deposition.

requirement for a written report on a

e NC 303(d) list as impaired for sedimente may be required to perform additional apply more stringent practices if staff equirements are needed to assure compliance paired-waters conditions.

electronic notification. The notification out the date, time, nature, volume and

efore the date of the bypass, if possible. evaluation of the anticipated quality and

electronic notification.

eport that includes an evaluation of the ass.

electronic notification.

port that contains a description of the ses; the period of noncompliance, nes, and if the noncompliance has not ted time noncompliance is expected to

planned to reduce, eliminate, and noncompliance. [40 CFR 122.41(l)(6). requirement for a written report on a

STOCKS ENGINEERING 801 EAST WASHINGTON STREET P.O. BOX 1108 NASHVILLE, N.C. 27856 PHONE: (252) 459-8196 WWW.STOCKSENGINEERING.COM SE PROJECT #2023-061

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PRELIMINARY NOT FOR CONSTRUCTION

OR # 57 STONE.) 6. CABC BACKFILL IS NOT ALLOWED IN ANY PART OF TRENCH

FULL DEPTH ASPHALT PATCH SCALE: N.T.S

Concrete Notes

- 2. All reinforcing steel is to be cold cut and bent.
- 3. Portland cement concrete shall have a minimum 28 day compressive strength of 4,000 PSI.
- 4. Do not use chloride in any concrete which has reinforcing steel or wire fabric.
- 7. Use only approved chairs with sand plates to support reinforcing on grade.
- bars to be a minimum of 48 inches apart.
- minutes
- dearees F.
- 12. Do not place fresh concrete during summer on a dry subgrade. Moisten subgrade before placing concrete.
- improvement directions. If ground water is entering subgrade, consult Engineer for instructions.
- before breaking away the adjacent concrete.
- 16. Brooming of the concrete surface shall be done transverse to the direction of traffic for all pedestrian areas.

- the project engineer for review prior to pouring concrete.
- templates have been removed.
- by the engineer and/or owner will be the responsibility of the contractor. 23. Cracked concrete shall be removed. Remove entire panel from joint to joint.

Concrete Testing Requirements

following:

1. One slump test 2. Pull, prepare and store 3 cylinders on-site for 24 hours. 3. Temperature

Subsequent Tests

Asphalt Testing Requirements

Compaction : Testing for	asphalt density is to fo
Compaction Quality	Management," latest re
Thickness : The minimu	m frequency of coring fo
linear feet of lay down	width, exclusive of inter
to be numbered and	logged for identification
Contractor's Quality Cont	rol System :
Follow NCDOT "	Standard Specifications
revision:	

Mixture and Job Mix Formula Adjustments

Adjustments", latest revision General : All other applicable sections of Section 609 of the NCDOT "Standard Specifications for Roads and Structures" shall apply relating to Quality Control Plan, mix design, control limits, corrective action, equipment and measurement. Testing Cost : Contractor is responsible for cost of testing asphalt and concrete.

Parking, Street or Building Subgrade Preparation

A. Subgrade on Precompacted Original Soil

properly compacted select granular fill.

B. Subgrade on Certified Compacted Fill

- Prepare the site following the same procedures as outlined in Items 1 and 2 above. Proctor Method.

Drainage Notes

- Boxes may be reinforced masonry, masonry, precast concrete or cast-in-place reinforced concrete. *Engineer.* Four-inch walls are not allowed on drainage structures.
- 3. Steps are to be provided on all basins deeper than 42". 4. Steps are to be PS1-PF as manufactured by M. A. Industries or an approved equal. Locate on non-pipe walls.
- 5. Mortar in masonry boxes is to be type M. C. Clay brick structures are not allowed.
- 7. Concrete building brick is to meet ASTM C-55, Grade N, and Type 1.
- loading. See manufacturer's details for wall, top and bottom thickness.
- ordering castings! 11. All concrete pipe is to be ASTM C-76, Class III with ram-nek.
- 12. All frames and grates shall receive a bituminous coating.

1. Site Contractor to inform Building Contractor to verify finished grade at building <u>before</u> digging footings. Some portions of the building foundation wall may, of necessity, need to retain building pad fill to allow exterior grades to be dropped. In this case, step footings may be necessary to achieve the desired grade

> ng, relocating, before ordering

8. Unusable excavated materials and all waste resulting from clearing and grubbing and demolition shall be disposed of off-site by Contractor.

9. All excavation is unclassified and shall include all materials encountered. 10. Before any machine work is done, Contractor shall stake out and mark the items established by the Site Plan. Control points shall be preserved at all times during the course of the project. Lack of proper working points and grade stakes may require cessation of operations until such points and grades have been placed to the

11. Contractor to ensure all portions of the site have positive drainage. This must be verified prior to paving or pouring concrete. 12. Refer to soils report for directions on earthwork and subgrade preparation, if available.

in to allow exterior grades to be dropped. In this case, step rootings may be necessary to achieve the desir
of future paving in areas to receive pavement and top of topsoil in areas to be seeded.
eters shall receive 4 inches of topsoil. This topsoil to be placed and leveled by the Contractor.
ng purposes only and are not to be used to lay-off footings. See Architectural Plans.
with all utility companies or firms having facilities on or adjacent to the site before disturbing, altering, remov s. Contractor shall raise or lower tops of existing manholes, as required, to match finished grades.
o be Vulcan or approved equal. Verify that dimension heights on castings are not exceeded in critical areas

5. Reinforcing steel shall meet ASTM A-615, Grade 60. Welded wire fabric shall meet ASTM A-185. Tie wire shall conform to ASTM A-82. 6. Lap welded wire fabric a minimum of one mesh. Lap all bars a minimum of 24". Alternate adjacent bar splices a minimum of 48".

8. All crossings of reinforcement are to be tied. Supports for reinforcing to hold bars against movement during pour and finish operation. Supports for reinforcing

9. Concrete shall be only plant-mixed, transit-mixed or ready-mixed concrete. The time elapsing from mixing to placing the concrete shall not exceed ninety (90) 10. Concrete shall not be deposited on frozen subgrade and shall not be poured when the air temperature for the succeeding 24-hour period is less than 32

11. All concrete when placed in forms shall have a temperature between 50 degrees F and 90 degrees F and shall be maintained at a temperature of not less

than 50 degrees for at least 72 hours for normal concrete and 24 hours for high early strength concrete.

13. Subgrade is to be firm, free of water and/or silt and undisturbed or compacted properly. Consult Engineer if soft or yielding subgrade is encountered for

14. Areas of concrete to be removed shall be saw cut before removing. The saw cut shall provide a smooth, straight edge approximately two (2) inches deep

15. Immediately after the forms have been removed and all honeycombed areas are repaired, backfill to prevent underwash.

17. Joint spacing shall be no less than 8-feet. Where existing sidewalks are being widened, transverse joints shall be located so as to line up with existing joints in the adjacent existing sidewalk. Grooved joints shall not be sealed. Seal all others. 18. Concrete Sub shall be responsible for all score joints and expansion joints. A preliminary score joint pattern and expansion joint pattern shall be submitted to

19. Expansion joints shall be one-half (1/2) inch in width and shall be placed between all rigid objects at a distance of no more than thirty (30) feet apart and shall extend the full depth of the concrete with the top of the filler one-half (1/2) inch below the finished surface. 20. The edges of the curb/sidewalk shall be finished with an approved edging tool one-half (1/2) inch radius. Joints shall be similarly finished immediately after

21. Saw control joints as soon as fresh concrete will retain coarse aggregate against the sawing action. 22. Contractor SHALL NOT POUR any concrete before forms are inspected by the project engineer and/or the architect. Any concrete that has not been approved

The initial test (from first ready-mix truck) is to be taken after the second yard is dispatched from the mixer and is to consist of the

After the above tests are pulled from the initial truck, every 5th truck thereafter is to be tested in the same manner as noted above.

llow NCDOT "Standard Specifications for Roads and Structures", Section 609-9, "Field for thickness testing shall be on the basis of test sections consisting of not more than 1500 sections and irregular areas. The test sample is to be a 6-inch cored sample. The sample is n purposes.

for Roads and Structures", Section 609-5, "Contractor's Quality Control System," latest

Follow NCDOT "Standard Specifications for Roads and Structures", Section 609-4. "Field Verification of Mixture and Job Mix Formula

1. Remove all the topsoil and all questionable organic soil and extend a minimum of four (4) feet beyond the outside edge of the pavement. 2. Precompact the exposed grade with a vibratory roller weighing a minimum of ten (10) tons (static load) or equal to stabilize the initial settlement of the top strata of the soil. The stability of the subgrade will be considered adequate when the total settlement after the last four (4) complete passes by the vibratory roller does not exceed 1/8". Any area that settles excessively and fails to stabilize under continued rolling should be further undercut and replaced with

2. Using the same compaction equipment as outlined above, compact new fill soil in +/-8-inch layers to a minimum 98-percent of the maximum dry density at its optimum moisture content in accordance with the Standard Proctor Method, ASTM Standard D 698-78 and field controlled in accordance with ASTM Standard D 2167-84, or equal. The top one (1) foot of the prepared fill subgrade should be compacted to 100-percent of the maximum dry density using the Standard

3. The end of the fill should be terminated at the minimum slope of two (2) horizontal to one (1) vertical measured from three (3) feet beyond the outside edge of the pavement to the toe of the fill. The fill soil is to be select granular soil weighing a minimum of 110 pcf at its optimum moisture content.

2. The maximum height of an un-reinforced masonry drainage structure with 8-inch walls shall be limited to 8-foot from invert of the outlet pipe to the top of the casting. Depths greater than 8-feet shall have walls 12-inches thick. Basins over 12-feet in total depth shall be designed by a NC Professional

8. All iron castings are to be drilled and lagged to the drainage structure. The drainage structure as well is to be drilled.

9. All cast-in-place or precast concrete drainage structures located in paved areas accessible to truck loadings to be designed to meet AASHTO HS 20-44

10. All catch basins grates and frames are to be Vulcan or approved equal. Verify dimensions heights on castings are not exceeded in critical areas before

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PRELIMINARY NOT FOR CONSTRUCTION

PRELIMINARY NOT FOR CONSTRUCTION

GENERAL NOTE:

Prior to construction

start. Contractor shall

verify & be responsible

Description Date

Project No.

OCT 12

2023

Drawn By

Author

Checked By

Checker

22042

Sheet No.

D-05

Sheet Title

SITE NOTES and DETAILS

for all Dimensions.

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GENERAL

- THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS (IF PROVIDED). SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO THE GENERAL NOTES.
- DO NOT SCALE DIMENSIONS FROM DRAWINGS. THE CONTRACTOR SHALL REQUEST NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY
- REFERENCED ON THE DRAWINGS.
- WHERE A CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS OCCURS THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- IF ANY BIDDER IS IN DOUBT AS TO THE INTENT OF THE DRAWINGS OR SPECIFICATIONS, THEY SHALL REQUEST AN INTERPRETATION IN WRITING PRIOR TO THE SCHEDULED BID DATE.
- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND GRADE CONDITIONS (BOTH NEW AND EXISTING), REPORTING ANY DISCREPANCIES TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR PROCEEDING WITH STRUCTURAL WORK.
- THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS, AND REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR PROCEEDING WITH STRUCTURAL WORK.
- SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, FLOOR SLOPES, AND THE LOCATION OF DEPRESSED FLOOR AREAS.

CONTRACTOR RESPONSIBILITY

- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS (IF PROVIDED) REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. ALL APPLICABLE SAFETY REGULATIONS TO BE FOLLOWED STRICTLY.
- THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING FOR THE STRUCTURE IN ALL DIRECTIONS UNTIL THE
- STRUCTURAL WORK IS COMPLETE. ALL INTERIOR HANGING COMPONENTS (CEILING, DUCTWORK, PIPING, EQUIPMENT, ETC.) SHALL BE COORDINATED BY THE CONTRACTOR TO ENSURE LOADS APPLIED TO THE STRUCTURE DO NOT EXCEED THE LIMITS SHOWN IN THE DESIGN CRITERIA OR ELSEWHERE IN THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY OF THE CONNECTIONS TO THE SUPPORTING STRUCTURAL ELEMENTS AND THE ADEQUACY OF
- THE HANGING SYSTEM TO SUPPORT THE COMPONENTS. ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS, THAT FRAME TO THE UNDERSIDE OF STRUCTURE ABOVE, SHALL BE DETAILED AND FRAMED BY THE CONTRACTOR TO ALLOW FOR DEFLECTION OF THE STRUCTURAL FRAMING. SEE THE DESIGN CRITERIA FOR THE LIMITS USED IN THE DESIGN.
- PRINCIPAL OPENINGS IN THE STRUCTURE ARE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ALL REQUIRED OPENINGS. SUPPORT FRAMING FOR ALL OPENINGS SHALL BE PROVIDED AND INSTALLED PER TYPICAL DETAILS HEREIN WHETHER SHOWN ON THESE DRAWINGS OR NOT. THE CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUBCONTRACTORS AND THEIR APPROVED SHOP DRAWINGS PRIOR TO CONSTRUCTION.
- ALL EXTERIOR WALL AND ROOF COMPONENTS AND CLADDING ENGINEERED BY THE COMPONENT MANUFACTURER ARE TO BE DESIGNED BY THE MANUFACTURER'S ENGINEER FOR COMPONENTS AND CLADDING WIND LOADS NOTED IN THE DESIGN CRITERIA.
- ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY ASCE/SEI 7 CHAPTER 13, "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". EACH INDIVIDUAL CONTRACTOR RESPONSIBLE FOR THE COMPONENT MUST PROVIDE PROJECT SPECIFIC DESIGN AND DOCUMENTATION PREPARED BY AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. CHAPTER 13 DEFINES THE FORCE REQUIRED TO SUPPORT THE COMPONENT FOR THE ANCHORAGE AND BRACING. THE COST OF PREPARING THIS INFORMATION AND DESIGN SHALL BE INCLUDED IN EACH CONTRACTOR'S BID THAT IS PROVIDING THE COMPONENT.
- SEVERAL ITEMS NOTED HEREIN (WHERE CHECKED) AND IN THE SPECIFICATIONS REQUIRE THE CONTRACTOR TO ENGAGE A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED, TO PROVIDE DESIGN AND/OR DETAILING OF STRUCTURAL ELEMENTS. SEE INDIVIDUAL NOTES AND SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. DELEGATED DESIGN ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
- □ SPECIALTY FOUNDATION SYSTEM POST-TENSIONED CONCRETE (LAYOUT AND STRESSING)
- □ STRUCTURAL PRECAST CONCRETE
- ARCHITECTURAL PRECAST CONCRETE □ STRUCTURAL STEEL (CONNECTIONS)
- PREFABRICATED METAL BUILDING
- STEEL STAIRS AND RAILINGS
- □ STEEL JOISTS AND STEEL JOIST GIRDERS □ ROOF ANCHORS
- NON-LOAD BEARING COLD-FORMED STEEL
- □ LOAD BEARING COLD-FORMED STEEL
- □ LIGHT GAUGE COLD-FORMED STEEL TRUSSES **PREFABRICATED WOOD TRUSSES**
- □ ANCHOR TIE-DOWN SYSTEM FOR WOOD SHEAR WALLS

JN CRITERIA	CONCRETE REINFORCING STEEL
PROJECT LOCATION: [STREET ADDRESS CITY, STATE ZIP] APPLICABLE CODES: 2018 NORTH CAROLINA BUILDING CODE (2015 INTERNATIONAL BUILDING CODE WITH REVISIONS) MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE/SEI 7-10) BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14) BUILDING CODE REQUIREMENTS SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530 530.1-13) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360-10) NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (ANSI/AWC NDS-2015)	 ALL CONCRETE DESIGN AND CO CONCRETE (ACI 318). CONCRETE MIXTURES AS REQUI CLASS A - FOOTINGS, GRADE/TI CLASS C - INTERIOR SLABS ON CLASS F - EXTERIOR SLABS ON CLASS F - EXTERIOR SLABS ON 3. REINFORCING: TYPICAL - ASTM A615 GRADE 60
NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (ANSI/AWC NDS-2015) NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS (AISI S100-12) XISK CATEGORY: II DEFLECTION: *LOOR FRAMING L/240 FOR TOTAL LOADING (1.50" FOR 30' SPAN), L/360 FOR LIVE LOADING (1.00" FOR 30' SPAN) ROOF FRAMING L/180 FOR TOTAL LOADING (2.00" FOR 30' SPAN), L/240 FOR LIVE LOADING (1.50" FOR 30' SPAN) NOMBERS SUPPORTING BRICK L/600 FOR LIVE LOADING (0.60" FOR 30' SPAN) STRUCTURAL DRIFT LIMITS WIND, H/400 (USING V = 0 MPH AND MEAN RECURRENCE INTERVAL OF 50 YEARS)	 REINFORCING TO BE WELDED - DEFORMED BAR ANCHORS - AST WELDED WIRE FABRIC - ASTM A REFER TO THE DRAWINGS FOR F LAP WELDED WIRE FABRIC SHEE CLEAR COVER FROM FACE OF CO CAST IN PLACE CONCRETE (MEA
_IVE LOADS:	CONCRETE CAST AGAINST CONCRETE EXPOSED TO EA
$\begin{array}{c c} & UNIFORM (PSF) & CONCENTRATED (LB) \\ \hline \\ SLAB-ON-GRADE & 100 & 2,000 \\ \hline \\ DECK & 100 & NA \\ \hline \\ ATTIC & 40 & NA \\ \hline \\ AOOF & 20 & 300 \\ \hline \\ SNOW LOAD: \\ \hline \\ SROUND SNOW LOAD & p_g = 15 PSF \\ \hline \\ IMPORTANCE FACTOR & I_s = 1.00 \\ \hline \\ SNOW EXPOSURE FACTOR & C_e = 1.00 \\ \hline \\ THERMAL FACTOR & C_t = 1.00 \\ \hline \\ \end{array}$	CONCRETE NOT EXPOSED 7. PROVIDE REINFORCING IN SLAE 4" SLABS 6x6-W2.1xW2.1 8. WHERE SCHEDULED BARS ARE N OF THE STIRRUP SPACING IN AL 9. WALL FOOTING REINFORCING S 10. PROVIDE VERTICAL DOVETAIL S 11. BAR SUPPORTS FOR CONCRETE 12. MECHANICAL AND ELECTRICAL O CLEAR BETWEEN INDIVIDUAL CO
² LAT SNOW ROOF LOAD p _f = 15 PSF WIND LOAD:	FRAMING OR REINFORCING MAY 13. HEADED CONCRETE ANCHORS S
SASIC DESIGN WIND SPEED V = 115 MPH (ALLOWABLE STRESS DESIGN WIND SPEED, V_{asd} = 89 MPH) SXPOSURE CATEGORY C NTERNAL PRESSURE COEFFICIENTS ±0.18 SASE SHEAR (1.0xW) Vx = 49k Vy = 55k COMPONENTS AND CLADDING - ALL EXTERIOR WALL AND ROOF COMPONENTS AND CLADDING ENGINEERED BY THE COMPONENT MANUFACTURER ARE TO BE DESIGNED BY THE MANUFACTURER'S ENGINEER FOR COMPONENTS AND CLADDING WIND LOADS AS DETERMINED PER THE GOVERNING BUILDING CODE FOR THE ULTIMATE DESIGN WIND SPEED AND EXPOSURE CATEGORY LISTED ABOVE. ALTERNATIVELY, THE COMPONENT MANUFACTURER MAY USE THE WORST-CASE PRESSURES (PSF) BELOW: ZONE	 AUTOMATICALLY END WELDED I 14. EMBED PLATES MUST BE SET IN THE ARCHITECT FOR CORRECTIV 15. FOR SLABS ON GRADE, SLAB AN SUPPORTS AS DESCRIBED IN CH BOTH WAYS. ROCKS, CMU, OR CO 16. REBAR SHALL NOT BE HEATED V 17. THE CONTRACTOR SHALL NOTIF CHECK THE LAYOUT OF THE STE
LONE 10 50 100 500 1 +21 +16 +16 +16	CONCRETE CONSTRUCTION JOINT
$\frac{1}{100} \frac{1}{2} -\frac{43}{-43} -\frac{31}{-27} -\frac{22}{-22} \\ \frac{2}{-64} +\frac{21}{-64} +\frac{16}{-40} -\frac{410}{-30} -\frac{30}{-30} \\ \frac{3}{-68} +\frac{21}{-68} +\frac{16}{-30} -\frac{410}{-30} -\frac{21}{-30} \\ \frac{1}{-68} +\frac{1}{-32} -\frac{21}{-30} -\frac{21}{-25} +\frac{22}{-25} \\ \frac{5}{-5} +\frac{1}{-30} +\frac{1}{-27} +\frac{25}{-25} +\frac{22}{-25} \\ \frac{5}{-5} +\frac{1}{-30} +\frac{1}{-27} +\frac{25}{-25} +\frac{22}{-25} \\ \frac{5}{-5} +\frac{1}{-30} +\frac{1}{-27} +\frac{25}{-25} +\frac{22}{-25} \\ \frac{1}{-5} +\frac{1}{-5} +\frac{1}{-5} +\frac{1}{-27} +\frac{1}{-25} +\frac{1}{-22} \\ \frac{1}{-5} +\frac{1}{-5} +\frac{1}{-5} +\frac{1}{-5} +\frac{1}{-5} \\ \frac{1}{-5} +\frac{1}{-5} +\frac{1}{-5} +\frac{1}{-5} +\frac{1}{-5} \\ \frac{1}{-5} +\frac{1}{-5} +\frac{1}{-5} +\frac{1}{-5} +\frac{1}{-5} \\ \frac{1}{-5} +\frac{1}{-5} +\frac{1}{-5} \\ \frac{1}{-$	 CONTRACTOR SHALL PROVIDE N MEETS THE REQUIREMENTS OF JOINTS TO THE STRUCTURAL EN THERE SHALL BE NO HORIZONT, MADE WITH BULKHEADS. ADDIT CONSTRUCTION JOINT DETAILS
SEISMIC LOAD:	STRUCTURAL MASONRY
Design Method - EQUIVALENT LATERAL FORCE PROCEDURE $3s$ 14.0 %g $3n$ 6.9 %g $3bos$ 14.9 %g $3bos$ 11.1 %gMPORTANCE FACTORIe = 1.00SITE CLASSDSEISMIC DESIGN CATEGORYBSEISMIC FORCE-RESISTING SYSTEM -STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMSRESPONSE MODIFICATION COEFFICIENTRx = 6.5Ry = 6.5Ry = 6.5DEFLECTION AMPLIFICATION FACTORCdx = 4.0Cdx = 4.0Cdy = 4.0SEISMIC RESPONSE COEFFICIENTCsx = 0.023Csy = 0.023Csy = 0.023ASE SHEAR (1.0xE)Vx = 6kVy = 6kFUTURE LOADS:UNLESS SPECIFICALLY NOTED, THERE ARE NO PROVISIONS MADE FOR FUTURE FLOORS, ROOFS, OR OTHER LOADS.	 ALL MASONRY DESIGN AND CON FOR MASONRY STRUCTURES (AC LOAD BEARING MASONRY WALLS DRAWINGS IS CONSIDERED HEF REQUIRED COMPRESSIVE STREM SOLID CLAY UNITS - 6,200 PSI OF CONCRETE UNITS - 2,000 PSI OF CONCRETE MASONRY UNITS (CM SPECIFICATIONS FOR UNIT SIZE MORTAR SHALL BE TYPE S, ASTM GROUT FOR REINFORCED MASO MINIMUM 28-DAY COMPRESSIVE UNIT STRENGTH METHOD OR TH REINFORCING: TYPICAL - ASTM A615, GRADE 6
	ALL REINFORCING TO BE WELDE 9. REFER TO THE DRAWINGS FOR F
DATIONS 'OUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION REPORT BY STEWART, INC, DATED NOVEMBER 10TH, 2023 (PROJECT #F23025 SASED ON THIS REPORT, THE DESIGN NET ALLOWABLE SOIL BEARING PRESSURE IS 3,000 PSF. LLL RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL INVESTIGATION REPORT AND AS NOTED ON THE DRAWINGS MUST BE FOLLOWED IN REPARATION OF THE SUBGRADE, UNLESS OTHERWISE DIRCTED BY THE NEOKIPER OF RECORD. THE CONTRACTOR SHALL OBTAIN THE REPORT FROM THE OWNER AND BE FAMILIAR WITH THE RECOMMENDATIONS CONTAINED THEREIN PRIOR TO THE START OF CONSTRUCTION. IF CONDITIONS SINCOUNTERED DURING CONSTRUCTION DIFFER FROM THOSE DESCRIBED IN THE REPORT, THE OWNER SHALL NOTIFY THE GEOTECHNICAL ENGINEER OF RECORD SO THE RECOMMENDATIONS CAN BE REEVALUATED. O'OTINGS SHALL BE CARRIED TO LOWER ELEVATIONS THAN THOSE SHOWN ON THE DRAWINGS IF REQUIRED BY THE GEOTECHNICAL ENGINEER OR TESTING LAB TO REACH SOIL CAPABLE OF PROVIDING THE DESIGN NET ALLOWABLE SOIL BEARING PRESSURE. ALL EXPANSIVE AND/OR LOOSE SOILS SELOW STRUCTURAL FOUNDATIONS SHALL BE REMOVED AND REPLACED AS DIRECTED HEREIN. YINIMUM SUBGRADE PREPARATION REQUIREMENTS ARE AS FOLLOWS: 1. PREPARE SUBGRADE AND UNDERFLOOR FILL TO A POINT THAT EXTENDS 3'-0" (MINIMUM) BEYOND THE LIMITS OF THE FOUNDATIONS. 2. COMPACT ALL FILL UNDER BUILDING TO 95% (98% FOR UPPER 12') MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. 3. PLACE IN LIFTS OF 8"-10" (MAXIMUM) LOOSE THICKNESS WHEN USING LARGE RIDING COMPACTORS (REDUCE THICKNESS AS NECESS	 10. MAXIMUM HEIGHT TO WHICH M/ MASONRY. IF GROUT POUR HEIG THE BOTTOM OF EACH GROUT P 11. ALL GROUT PLACED OVER 12" IN MECHANICAL VIBRATION AFTER 12. MAXIMUM GROUT LIFT (GROUT I 13. REINFORCE MASONRY WHERE S PUSH REINFORCING DOWN INTO 14. TIE MASONRY WYTHES WITH HC 15. PROVIDE VERTICAL BARS, SIZE WALL OPENINGS. TIE EACH BAR 16. ALL CORNERS OF STRUCTURAL I BLOCK COURSING PROHIBITS IN 17. ALL LINTELS TO BEAR 8" MINIMI 18. GROUT ALL MASONRY WALLS AN INDICATED IN SPECIFIC SECTIO 19. ONE 3/4"Ø (MAXIMUM) VERTICAL APPROVED BY THE STRUCTURAL
	We use the set of the

RCING STEEL ESIGN AND CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL IRES AS REQUIRED (BASED ON CLASS DESIGNATION): NGS, GRADE/TIE BEAMS NWC 3,000 PSI NWC 3,000 PSI OR SLABS ON GRADE OR SLABS ON GRADE, PADS, TOPPINGS NWC 4,500 PSI 615, GRADE 60 BE WELDED - ASTM A706 NCHORS - ASTM A496 BRIC - ASTM A1064 (FLAT SHEETS ONLY) AWINGS FOR REINFORCING LAP REQUIREMENTS. WHERE LAP SPLICES ARE NOT SHOWN, LAP PER ACI 318 OR CRSI STANDARDS. E FABRIC SHEETS 8" MINIMUM. OM FACE OF CONCRETE: ONCRETE (MEASURE TO OUTERMOST REINFORCING) -CAST AGAINST AND EXPOSED TO EARTH EXPOSED TO EARTH/WEATHER 2" FOR #6 BARS AND LARGER, 1 1/2" ELSE NOT EXPOSED TO EARTH/WEATHER 3/4" FOR SLABS AND WALLS, 1 1/2" (TO TIES) FOR BEAMS AND COLUMNS RCING IN SLABS ON GRADE, 1-1/2" FROM TOP OF SLAB: <6-W2.1xW2.1</pre> ED BARS ARE NOT PRESENT, PROVIDE CONTINUOUS #5 TOP AND BOTTOM BARS TO SUPPORT STIRRUPS AS REQUIRED FOR THE LENGTH SPACING IN ALL BEAMS. EINFORCING SHALL BE CONTINUOUS THROUGH ADJACENT COLUMN FOOTINGS. AL DOVETAIL SLOTS AT 24"OC WITH TIES AT 16"OC VERTICALLY IN ALL CONCRETE WALLS BACKING-UP MASONRY VENEER.

DR CONCRETE EXPOSED TO VIEW SHALL HAVE PLASTIC COATED LEGS OR BE HOT-DIP GALVANIZED AFTER FABRICATION. ELECTRICAL CONDUIT IN SLABS ON GRADE SHALL RUN UNDER TOP LAYER OF SLAB REINFORCING. PROVIDE A MINIMUM OF 1-1/2" INDIVIDUAL CONDUITS AND REINFORCING. IF MAXIMUM SIZE OF CONDUIT EXCEEDS ONE THIRD OF THE SLAB DEPTH, ADDITIONAL

VFORCING MAY BE NECESSARY AT ENGINEER'S DISCRETION. TE ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A108, GRADES 1010, 1015, 1017, OR 1020. STUDS SHALL BE

END WELDED IN THE SHOP OR FIELD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. UST BE SET IN THE FORM BEFORE POURING CONCRETE, NOT PLACED INTO TOP OF WET CONCRETE. THE CONTRACTOR SHALL CONTACT

OR CORRECTIVE DETAILS FOR ANY EMBED PLATES LEFT OUT OF CONCRETE POURS. RADE, SLAB AND FOOTING REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS WITH SAND PLATES, OR PRECAST CONCRETE BAR SCRIBED IN CHAPTER 3 OF THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS SHALL BE SPACED AT A MAXIMUM OF 4'-0"OC KS, CMU, OR CLAY BRICK WILL NOT BE USED AS SUPPORTS.

BE HEATED WITH A TORCH IN THE FIELD. SHALL NOTIFY THE ARCHITECT/ENGINEER FAR ENOUGH IN ADVANCE (48 HOURS) OF EACH CONCRETE POUR TO ALLOW AMPLE TIME TO UT OF THE STEEL BEFORE THE BEGINNING OF THE ACTUAL POUR, BUT NOT PRIOR TO 90% OF THE STEEL HAVING BEEN PLACED.

CTION JOINTS

ALL PROVIDE NECESSARY CONSTRUCTION JOINTS IN MONOLITHIC CONCRETE POURS SO THAT THE QUALITY OF PLACEMENT AND FINISH IREMENTS OF PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT A PLAN SHOWING THE LOCATION OF ALL CONSTRUCTION TRUCTURAL ENGINEER FOR APPROVAL. NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS. ALL VERTICAL CONSTRUCTION JOINTS IN SLABS AND BEAMS SHALL BE HEADS. ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS SHALL BE AS SPECIFIED BY THE STRUCTURAL ENGINEER. SEE TYPICAL

SIGN AND CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE BUILDING CODE REQUIREMENTS SPECIFICATIONS RUCTURES (ACI 530|530.1).

ASONRY WALLS, PILASTERS, PIERS, RETAINING WALLS, FOUNDATION WALLS AND ANY OTHER MASONRY SO DESIGNATED ON NSIDERED HERE TO BE STRUCTURAL MASONRY. RESSIVE STRENGTH OF MASONRY UNITS:

S - 6,200 PSI

- 2,000 PSI ON NET AREA

NRY UNITS (CMU) SHALL BE LIGHT WEIGHT (105 PCF) CONFORMING TO ASTM C90. REFER TO ARCHITECTURAL DRAWINGS AND FOR UNIT SIZE, FACE, COLOR, JOINTING, ETC. TYPE S, ASTM C270.

FORCED MASONRY SHALL BE FINE GROUT, ASTM C476. MINIMUM 28-DAY COMPRESSIVE STRENGTH SHALL BE 2,000 PSI. COMPRESSIVE STRENGTH (f'm) OF THE MASONRY WALLS SHALL BE 2,000 PSI. MASONRY STRENGTH SHALL BE DETERMINED BY THE METHOD OR THE PRISM TEST METHOD AS DESCRIBED BY ACI 530.

615, GRADE 60 G TO BE WELDED - ASTM A706

AWINGS FOR REINFORCING LAP TYPICAL DETAIL AND SCHEDULE REOUIREMENTS.

TO WHICH MASONRY SHALL BE LAID BEFORE GROUTING IS 5 FEET ABOVE CONSTRUCTION SURFACE OR PREVIOUSLY GROUTED DUT POUR HEIGHT EXCEEDS 5 FEET, THEN "HIGH LIFT" GROUTING PROCEDURE MUST BE FOLLOWED. PROVIDE CLEANOUT OPENINGS AT EACH GROUT POUR HEIGHT. CLEANOUT OPENINGS SHALL BE PROVIDED AT EACH CELL TO BE FILLED WITH GROUT. ED OVER 12" IN HEIGHT SHALL BE MECHANICALLY CONSOLIDATED DURING GROUTING. GROUT SHALL BE RECONSOLIDATED BY

RATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED. LIFT (GROUT POURED IN ONE CONTINUOUS OPERATION) IS 5 FEET. THIS LIMIT ALSO APPLIES TO "HIGH LIFT" GROUTING. NRY WHERE SHOWN ON STRUCTURAL DRAWINGS. TIE REINFORCING IN POSITION AND PLACE GROUT AROUND REINFORCING. DO NOT

NG DOWN INTO PREVIOUSLY PLACED GROUT FILL. SET BOLTS SIMILARLY. THES WITH HORIZONTAL REINFORCING AS SPECIFIED.

AL BARS, SIZE MATCHING WALL REINFORCING, AT ALL CORNERS, ENDS OF WALLS, EACH SIDE OF CONTROL JOINTS AND EACH SIDE OF TIE EACH BAR TO THE FOUNDATION WITH A MATCHING DOWEL. STRUCTURAL MASONRY WALLS SHALL BE CONSTRUCTED BY INTERLOCKING COURSES. AT INTERSECTIONS WHERE SEQUENCING OR

PROHIBITS INTERLOCKED CONSTRUCTION SEE ALTERNATE DETAILS HEREIN. BEAR 8" MINIMUM EACH SIDE OF OPENING, UNLESS NOTED OTHERWISE.

NRY WALLS AND CAVITY BELOW GRADE SOLID. GROUT ALL WALLS ABOVE GRADE AT THE REINFORCED CELLS (MINIMUM) OR AS ECIFIC SECTIONS.

MUM) VERTICAL CONDUIT ALLOWED IN ANY REINFORCED CELL PROVIDED 1" CLEAR IS MAINTAINED BETWEEN REINFORCING AND HER VERTICAL OR HORIZONTAL CONDUITS, PIPES, OR SLEEVES SHALL BE LOCATED IN REINFORCED CELLS UNLESS OTHERWISE E STRUCTURAL ENGINEER. CONTRACTOR SHALL COORDINATE LAYOUT TO AVOID REINFORCED CELLS.

Ζ \sim 223 S. WEST STREET **T** 919.380.8750 FIRM LICENSE #C-1051 SUITE 1100 RALEIGH, NC 27603 PROJECT #S22092

STRUCTURAL STEEL

DESIGN, FABRICATION, AND ERECTION SHALL BE PER THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 360).

- STRUCTURAL STEEL MATERIALS: WIDE FLANGE SHAPES (W SECTIONS) - ASTM A992, GRADE 50 (FY=50 KSI)
- CHANNELS AND ANGLES ASTM A36 (FY=36 KSI)
- PLATES AND BARS ASTM A36 (FY=36 KSI) OR ASTM A572, GRADE 50 (FY=50 KSI) AS INDICATED ON THE DRAWINGS.
- SQUARE AND RECTANGULAR TUBES ASTM A500, GRADE B (FY=46 KSI) PIPES OR ROUND TUBES - ASTM A53, GRADE B (FY=35 KSI) OR ASTM A500, GRADE B (FY=42 KSI)
- A QUALIFIED FABRICATOR SHALL HAVE A MINIMUM OF 5 YEARS OF EXPERIENCE IN FABRICATING STRUCTURAL STEEL LIKE THAT INDICATED FOR THIS PROJECT AND SUFFICIENT CAPACITY TO FABRICATE THE STRUCTURAL STEEL WITHOUT DELAYING THE WORK, AND SHALL MEET ONE OF THE FOLLOWING: A. FABRICATOR PARTICIPATES IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC-CERTIFIED PLANT, CATEGORY (BU) OR IS ACCREDITED BY THE IAS FABRICATOR INSPECTION PROGRAM FOR STRUCTURAL STEEL (ACCREDITATION CRITERIA 172).
- B. FABRICATOR HAS AN ESTABLISHED AND MAINTAINED QUALITY CONTROL PROGRAM TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS IN ANSI/AISC 303, ANSI/AISC 360, AND THE CONTRACT DOCUMENTS. PROGRAM SHALL AT A MINIMUM ADDRESS INSPECTION OF THE ITEMS NOTED IN ANSI/AISC 360 N2.
- A QUALIFIED ERECTOR SHALL HAVE A MINIMUM OF 5 YEARS OF EXPERIENCE IN ERECTING STRUCTURAL STEEL LIKE THAT INDICATED FOR THIS PROJECT AND SUFFICIENT CAPACITY TO ERECT THE STRUCTURAL STEEL WITHOUT DELAYING THE WORK, AND SHALL MEET ONE OF THE FOLLOWING: A. ERECTOR PARTICIPATES IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC-CERTIFIED ERECTOR, CATEGORY (CSE). B. ERECTOR HAS AN ESTABLISHED AND MAINTAINED QUALITY CONTROL PROGRAM TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS IN ANSI/AISC 303, ANSI/AISC 360, AND THE CONTRACT DOCUMENTS. PROGRAM SHALL AT A MINIMUM ADDRESS INSPECTION
- OF THE ITEMS NOTED IN ANSI/AISC 360 N2. BEAM SIMPLE SHEAR, BRACED FRAME, AND ALL MOMENT CONNECTIONS NOT DETAILED ON STRUCTURAL DRAWINGS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE STEEL SUPPLIER AND REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE CONNECTION ENGINEER SHALL SUBMIT A SIGNED AND SEALED LETTER STATING THEY HAVE REVIEWED THE STEEL SHOP DRAWINGS AND THE CONNECTIONS ARE CONSISTENT WITH THEIR CALCULATIONS AND INTENT.
- THE CONNECTIONS FOR NON-COMPOSITE BEAMS SHALL BE DESIGNED FOR REACTIONS SHOWN ON DRAWINGS OR FOR REACTIONS DETERMINED BY USING THE MAXIMUM TOTAL UNIFORM LOAD TABULATED IN PART 3 OF THE AISC STEEL CONSTRUCTION MANUAL FOR THE SECTION, SPAN, AND STRENGTH OF STEEL SPECIFIED. THE CONNECTIONS FOR COMPOSITE BEAMS SHALL BE DESIGNED FOR REACTIONS SHOWN ON DRAWINGS OR AS DICTATED BY THE TYPICAL COMPOSITE SLAB DETAIL.
- SIMPLE SHEAR CONNECTIONS SHALL BE MADE WITH ASTM A325 3/4"Ø BOLTS (MINIMUM), TIGHTENED TO A SNUG-TIGHT CONDITION PER AISC REQUIREMENTS.
- ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE. USE E70 SERIES ELECTRODES FOR ALL STRUCTURAL STEEL WELDS, WHERE STEEL MEMBERS ARE WELDED AND NO SIZE IS SPECIFIED, PROVIDE FULL LENGTH FILLET WELDS BOTH SIDES OF MEMBER. SIZE OF FILLETS SHALL BE 3/16" FOR MEMBER THICKNESS UP TO 5/16". AND THE MEMBER THICKNESS MINUS 3/16" FOR ALL THICKER MATERIALS.
- ANCHOR AND THREADED RODS SHALL CONFORM TO ASTM F1554, GRADE 36, 55, OR 105 AS INDICATED ON THE DRAWINGS. CONTRACTOR TO COORDINATE INSTALLATION OF ITEMS TO BE EMBEDDED IN OR ATTACHED TO OTHER CONSTRUCTION WITHOUT DELAYING THE WORK.
- STEEL SHALL BE PRIMED WITH FABRICATOR'S STANDARD LEAD- AND CHROMATE-FREE, NON-ASPHALTIC, RUST-INHIBITING PRIMER COMPLYING WITH MPI#79 (MINIMUM COAT OF 3 MILS, MAXIMUM OF 5 MILS). CONTRACTOR TO COORDINATE SELECTION OF PRIMER WITH TOPCOATS TO BE APPLIED TO ENSURE THE TWO ARE COMPATIBLE. MEMBERS TO RECEIVE FIREPROOFING OR TO BE ENCASED IN CONCRETE SHALL NOT BE PRIMED. SEE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL ITEMS REQUIRED TO BE HOT-DIP GALVANIZED AFTER FABRICATION.
- STRUCTURAL STEEL SHALL BE PUNCHED FOR WOOD BLOCKING, NAILERS, CLIPS AND TIES IN ACCORDANCE WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS
- CAP ALL OPEN HSS OR PIPE MEMBERS OUTSIDE THE BUILDING ENVELOPE WITH A 1/4" (MINIMUM) FITTED PLATE, UNO. ERECTOR SHALL SET STRUCTURAL STEEL IN LOCATIONS AND TO ELEVATIONS IN ACCORDANCE WITH ANSI/AISC 303 AND 360. MAINTAIN THE FRAME WITHIN ERECTION TOLERANCES PER ANSI/AISC 303.
- PROMPTLY PACK SHRINKAGE-RESISTANT GROUT SOLIDLY BETWEEN BEARING SURFACES AND PLATES SO NO VOIDS REMAIN
- SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER AS TO LOCATION AND TYPE OF SPLICE TO BE MADE. ANY MEMBER HAVING A SPLICE NOT SHOWN AND DETAILED ON SHOP DRAWINGS WILL BE REJECTED. THERMAL CUTTING MAY NOT BE USED IN THE FIELD DURING ERECTION.
- QUALITY CONTROL INSPECTION TASKS SHALL BE PERFORMED BY BOTH THE FABRICATOR AND ERECTOR IN ACCORDANCE WITH ANSI/AISC 360 N5. NON-DESTRUCTIVE TESTING (NDT) OF WELDED JOINTS PROVIDED DURING FABRICATION SHALL BE IN ACCORDANCE WITH N5.5 AND PERFORMED BY AN INDEPENDENT AND QUALIFIED TESTING AGENCY OR THE FABRICATOR'S QCI. ALL TESTING REPORTS SHALL BE SUBMITTED TO THE OWNER FOR REVIEW AT THE COMPLETION OF FABRICATION AND ERECTION, THE FABRICATOR AND ERECTOR SHALL EACH SUBMIT A CERTIFICATE OF COMPLIANCE TO THE
- OWNER STATING THE MATERIALS SUPPLIED AND WORK PERFORMED ARE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- NON-DESTRUCTIVE TESTING (NDT) OF WELDED JOINTS PROVIDED DURING ERECTION SHALL BE IN ACCORDANCE WITH N5.5 AND PERFORMED BY AN INDEPENDENT AND QUALIFIED TESTING AGENCY. ALL TESTING REPORTS SHALL BE SUBMITTED TO THE OWNER FOR REVIEW.

NON-LOAD BEARING COLD-FORMED STEEL (METAL STUDS) ALL STRUCTURAL MEMBERS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REFERENCED EDITION OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS BY THE AMERICAN IRON AND STEEL INSTITUTE. ALL METAL STUDS, HEADERS, AND ACCESSORIES SHALL BE MADE OF THE MINIMUM TYPE, SIZE, GAUGE, AND SPACING SHOWN ON DRAWINGS. MINIMUM YIELD STRENGTH (FY) FOR STUDS IS 33 KSI FOR 18 GA (43 MILS) AND 20 GA (33 MILS) MATERIALS, AND 50 KSI FOR 12 GA (97 MILS), 14 GA R (68 MILS), AND 16 GA (54 MILS) MATERIALS. ALL THE COLD-FORMED STEEL STRUCTURAL MEMBERS SHALL COME FROM A SINGLE SOURCE MANUFACTURER. ONLY MANUFACTURERS WHO ARE G THE MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) OR THE STEEL FRAMING INDUSTRY ASSOCIATION (SFIA) WILL BE ACCEPTED. THE INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS. LE SOURCE MANUFACTURER. ONLY MANUFACTURERS WHO ARE SUBMIT SHOP DRAWINGS FOR ALL COLD-FORMED METAL FRAMING USED TO SUPPORT CEILINGS AND EXTERIOR CLADDING. SHOP DRAWINGS SHALL THE INDICATE PLACING OF ALL FRAMING MEMBERS SHOWING TYPE, SIZE, GAUGE, NUMBER, LOCATION AND SPACING. THEY SHALL ALSO INDICATE SUPPLEMENTAL STRAPPING, BRACING, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION.P DRAWINGS SHALL SHOP DRAWINGS SHALL SHOW SIZE AND LENGTH OF WELDS FOR ALL WELDED CONNECTIONS AND TYPE, SIZE AND NUMBER OF SCREWS FOR ALL SCREWED CONNECTIONS. SUBMIT MANUFACTURER'S DATA GIVING STRENGTH VALUES FOR SCREWS USED.OPER INSTALLATION ALL STUDS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653 AND C955. ALL ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI. A MINIMUM LENGTH OF 10" OF UNPUNCHED STEEL IS REQUIRED AT BOTH ENDS OF STUDS. NO PUNCHING HOLES OF ANY SIZE IS PERMITTED IN THESE 10". NO CUTTING OF THE STUD FLANGE IS PERMITTED. BOTH STUD FLANGES SHALL BE ATTACHED TO THE TOP AND BOTTOM TRACK WITH (2)#10 SCREWS EACH SIDE.IUM YIELD STRENGTH OF 50 KSI AND 10. SPLICES IN STUDS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. 11. MULTIPLE STUD "COLUMNS" SHALL BE WELDED TOGETHER IN GROUPS OF AT LEAST TWO STUDS WITH 2" WELD TOP AND BOTTOM AND 1" WELD AT 24"OC BOTH SIDES IN BETWEEN.MECHANICAL ATTACHMENT TO STUD WEB. MECHANICAL ATTACHMENT TO STRUCTURE AND SCREW ATTACHMENT TO 12. TRACK SPLICES WITHIN A PANEL/WALL MUST BE SECURELY ANCHORED TO A COMMON ELEMENT (I.E. STUD, HEADER, ETC.), BUTT-WELDED TOGETHER, OR SPLICED WITH STUD MATERIAL SECURELY FASTENED TO TRACK ON BOTH SIDES OF SPLICE. -13. –LATERAL BRIDGING SHALL BE USED TO RESIST TORSIONAL FORCES IN THE METAL STUDS. BRIDGING SHALL BE 2 1/2"-18 GA (43 MILS) FLAT STRAPS, — SCREW ATTACHED TO BOTH FLANGES OF EACH STUD WITH SOLID BLOCKING REQUIRED AT 8"OC (MAX) AND ADJACENT TO EACH OPENING. BLOCKING MAY BE MADE FROM MATCHING GAUGE STUDS ATTACHED WITH 16 GA (54 MILS) CLIP ANGLES WITH (2)#10 SCREWS INTO EACH FLANGE. 14. ACCEPTABLE BRIDGING ALTERNATE IS COLD-FORMED CHANNELS (1 1/2" CHANNEL IN 3 5/8" OR 4" STUDS AND 2 1/2" CHANNEL IN 6" STUDS) WELDED TO THE OUTER EDGE OF PUNCHOUTS WITH 1/4" MINIMUM WELD. 15. BRIDGING IS TO BE PLACED AT NO MORE THAN 4'-0"OC VERTICALLY. 16. INSTALL DOUBLE STUDS AT EVERY INTERRUPTION (I.E. PLUMBING CHASES, ETC.). 17. MINIMUM TRACK FASTENINGS SHALL BE 0.138"Ø POWDER ACTUATED FASTENERS (PAFs) SPACED 16"OC FOR WALLS (UNO), WITH 1 1/4" MINIMUM PENETRATION INTO CONCRETE. . VOIDS BENEATH TRACK SHALL NOT BE PERMITTED. CONTRACTOR SHALL PROVIDE A LEVEL SLAB WITHIN ACI 117 TOLERANCES. WHERE UNEVENNESS OF SUPPORTING FLOOR PREVENTS CONTINUOUS SOLID BEARING, PANEL OR TRACK SHALL BE LEVELED BY PLACING MORTAR OR GROUT BENEATH TRACK. . VERTICAL DEFLECTION CLIPS ARE REQUIRED TO BE CAPABLE OF ACCOMMODATING UPWARD AND DOWNWARD VERTICAL DISPLACEMENT OF THE STRUCTURE THROUGH POSITIVE MECHANICAL ATTACHMENT TO STUD WEB. MECHANICAL ATTACHMENT TO STRUCTURE AND SCREW ATTACHMENT TO STUD WEB USING STEP-BUSHINGS TO PERMIT FRICTIONLESS VERTICAL MOVEMENT. CONNECTORS TO BE TESTED IN ACCORDANCE TO ICC AC621

CRITERIA AND HOLD A VALID ICC-ES EVALUATION SERVICE REPORT TO BE ACCEPTABLE. HEADERS SHALL BE CONSTRUCTED OF UNPUNCHED STUDS. SHEAR SHALL BE TRANSFERRED BY FULL BEARING ON JACK STUDS OR BY SHEAR PLATES. SHEAR PLATES SHALL BE 16 GA (54 MILS) MINIMUM.

21. REFER TO ARCHITECTURAL PLANS FOR NON-LOAD BEARING WALLS.

LUMBER

1.	ALL LUMBER A	ND ITS FASTENING	S SHALL CONFORM TO	D THE REFEREN	CED EDITION OF	THE NATIONAL DE	ESIGN SPECIFICA	TION FOR W	JOD
	CONSTRUCTIO	N BY THE AMERICA	N FOREST AND PAPER	ASSOCIATION.					
2.	ALL LUMBER S	HALL BE OF THE FO	LLOWING PROPERTIE	S UNLESS OTHE	RWISE NOTED (OR EQUIVALENT G	RADE OF ANOTHI	ER SPECIES):	•
	ALL STRUCTUR	RAL LUMBER, SPRUC	CE PINE FIR NO. 2 (SP	RUCE PINE FIR	SOUTH IS NOT A	CCEPTABLE) -			
	2x4	Fb = 1,313 PSI	Fc = 1,323 PSI (TO GRAIN)					
	2x6	Fb = 1,138 PSI	Fc = 1,265 PSI (TO GRAIN)					
	2x8	Fb = 1,050 PSI	Fc = 1,208 PSI (TO GRAIN)					
	2x10	Fb = 963 PSI	Fc = 1,150 PSI (TO GRAIN)					
	2x12	Fb = 875 PSI	Fc = 1,150 PSI (TO GRAIN)					
		Fv = 135 PSI FOR	ALL SIZES NOTED AE	OVE					
		E = 1,400 KSI FO	R ALL SIZES NOTED A	BOVE					
	ALL PRESSURE	E-TREATED LUMBER,	, SOUTHERN YELLOW	PINE NO. 2 -					
	2x4,4x4	Fb = 1,100 PSI	Fc = 1,450 PSI (TO GRAIN)					
	2x6	Fb = 1,000 PSI	Fc = 1,400 PSI (TO GRAIN)					
	2x8	Fb = 925 PSI	Fc = 1,350 PSI (TO GRAIN)					
	2x10	Fb = 800 PSI	Fc = 1,300 PSI (TO GRAIN)					
	2x12	Fb = 750 PSI	Fc = 1,250 PSI (TO GRAIN)					
		Fv = 175 PSI FOR	ALL SIZES NOTED AE	OVE					
		E = 1,400 KSI FO	R ALL SIZES NOTED A	BOVE					
	6x6	Fb = 850 PSI	Fc = 525 PSI (TC) GRAIN)	Fv = 165 PSI	E = 1,200	KSI		
	BUILT-UP TRU	SS AND CLADDING	AT DROP-OFF, WESTE	RN RED CEDAR	NO. 2				
	2X	Fb = 700 PSI	Fc = 650 PSI (TO	GRAIN)	Fv = 175 PSI	E = 1,000	KSI		
3.	LVL BEAMS SH	IALL BE SOLID RECT	ANGULAR SECTIONS	CONSTRUCTED	OF HIGH STREN	GTH LAMINATED V	ENEER CONFORM	IING TO AST	1 D5456. LVL
	BEAMS USED	OUTSIDE THE BUILD	DING ENEVELOPE SHA	LL BE PWT TREA	ATED LVL AS SUF	PPLIED BY PACIFIC	WOODTECH COR	PORATION.	MINIMUM DESIGN
	PROPERTIES:								
	Fb = 2,600 PS	I (12" DEPTH)	Ft = 1,895 PSI	Fc = 750 PSI	$(\perp TO GRAIN);$	2,510 PSI (TO GI	RAIN) Fv = 2	.85 PSI	E = 2,000 KSI
4.	PSL BEAMS SH	IALL BE SOLID RECT	FANGULAR SECTIONS	CONSTRUCTED	OF HIGH STREN	GTH PLYWOOD LAI	MINATES. MINIMU	JM DESIGN P	ROPERTIES
	(WOLMANIZED	D PSL):							
	Fb = 1,885 PS	I (12" DEPTH)	Ft = 1,690 PSI	Fc = 240 PSI	$(\perp TO GRAIN);$	1,310 PSI (TO GF	RAIN) $Fv = 1$.80 PSI	E = 1,490 KSI

PSL COLUMNS SHALL BE SOLID RECTANGULAR SECTIONS CONSTRUCTED OF HIGH STRENGTH PLYWOOD LAMINATES. MINIMUM DESIGN PROPERTIES (WOLMANIZED PSL):

Fb = 1,625 PSI (12" DEPTH) Ft = 1,465 PSI Fc = 195 PSI (⊥ TO GRAIN); 1,130 PSI (∥ TO GRAIN) Fv = 140 PSI E = 1,340 KSI ALL WOOD BEARING ON CONCRETE, MASONRY, OR EXPOSED TO WEATHER SHALL BE PRESSURE-TREATED SOUTHERN PINE. ALL ENGINEERED LUMBER BEARING ON CONCRETE, MASONRY, OR EXPOSED TO WEATHER SHALL BE CHEMICALLY TREATED OR WOLMANIZED TO MEET AWPA USE CATEGORY 3/4. ALL EXTERIOR WALL SILL PLATES SHALL BE ANCHORED TO CONCRETE OR MASONRY WITH A MINIMUM 1/2"Ø ANCHOR BOLT (6" MIN EMBED) @48"OC, UNO IN THE DRAWINGS. AT CONTRACTOR'S OPTION SIMPSON STRONG-TIE MASA MUDSILL ANCHORS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN EXTERIOR NON-SHEAR WALL APPLICATIONS (SHEAR WALLS STILL REQUIRE BOLTS PER SCHEDULE). INTERIOR WALL SILL PLATES SHALL BE ANCHORED TO SLAB WITH 0.145"Ø x2 7/8" HILTI X-CP FASTENERS (OR APPROVED EQUAL) @24"OC, UNO IN THE DRAWINGS. ALL SILL PLATES SHALL HAVE A MINIMUM OF TWO ANCHORS, AND ANCHORS EACH END AT LEAST 4" BUT NO MORE THAN 12" FROM THE END.

. ALL BOLTS SHALL BE RE-TIGHTENED PRIOR TO APPLICATION TO GYPSUM WALLBOARD, PLYWOOD, ETC.

1. ALL BOLTS BEARING ON WOOD SHALL HAVE WASHERS UNDER HEAD AND/OR NUT.

CROSS BRIDGING OR SOLID BLOCKING SHALL BE PROVIDED AT 8'-0"OC MAXIMUM. FOR ALL JOISTS AND RAFTERS MORE THAN 8" IN DEPTH, 2x3 OR APPROVED METAL TYPE BRIDGING MAY BE USED.

. STANDARD WOOD CONNECTORS MUST BE PROVIDED BY THE GENERAL CONTRACTOR FOR WOOD FRAMED MEMBERS. INTERIOR FRAMING CONNECTORS MUST BE G90 GALVANIZED ZINC CONNECTORS. EXTERIOR FRAMING CONNECTORS MUST BE G185 GALVANIZED ZINC COATING, MINIMUM. ADHESIVES SHALL MEET THE REQUIREMENTS FOR WET CONDITIONS OF SERVICE. EXPOSED BEAMS SHALL BE ARCHITECTURAL GRADE. ALL OTHERS

SHALL BE INDUSTRIAL GRADE. MEMBERS SHALL BE INDIVIDUALLY WRAPPED.

PREFABRICATED WOOD TRUSSES

- - TOP CHORD
 - BOTTOM CHORD DL = 10 PSF

 - MAXIMUM MOISTURE CONTENT 19% MINIMUM GRADE OF CHORD - NO. 2 MINIMUM GRADE OF WEB MEMBERS - NO. 3
 - AFTER LONG TERM DEFLECTION OCCURS.
 - ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

 - MAXIMUM UPLIFT REACTION FORCES.

 - DRAWING.

 - LAYOUT DRAWING.

SHEATHING

- PS-2-04.

- PREPARE SHEATHING PER GYPCRETE MANUFACTURER'S REQUIREMENTS BEFORE CASTING GYPCRETE

WOOD DECKING

- LENGTH RANDOM LAYUP.
- Fb 1,610 PSI
- Fv 150 PSI E - 1,300 KSI
- MOISTURE CONTENT 10% TO 12% AVERAGE (15% MAXIMUM)

ADHESIVE AND MECHANICAL POST-INSTALLED ANCHORS

- ENGINEER OF RECORD.
- AND DRILLING METHODS.
- SYSTEM, OR CORE-DRILLING.

REPRODUCTION

STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, DUCTWORK, ETC., UNLESS SPECIFICALLY NOTED OR DETAILED. HOLES FOR BOLTS SHALL BE BORED 1/32" TO 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. 12. 2x SOLID BLOCKING SHALL BE PLACED BETWEEN JOISTS OR RAFTERS AT ALL SUPPORTS, ENDS OF CANTILEVERS, AND HALFWAY BETWEEN SUPPORTS. ALL NAILS SHALL BE COMMON UNLESS NOTED OTHERWISE.

ALL LUMBER AND ITS FASTENINGS SHALL CONFORM TO THE REFERENCED EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE AMERICAN FOREST AND PAPER ASSOCIATION. CONFORM TO APPLICABLE PROVISIONS OF TPI DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES (LATEST EDITION). PREFABRICATED ROOF TRUSS MANUFACTURER SHALL SUBMIT CALCULATIONS AND TRUSS LAYOUT OR FRAMING PLAN TO SECURE APPROVALS FROM

ARCHITECT AND BUILDING DEPARTMENT PRIOR TO ERECTION. TRUSS DESIGN SHALL CONSIDER ALL NOTED DESIGN LOADS IN DESIGN CRITERIA AS WELL AS LOADS NOTED ON THE DRAWINGS. TRUSS DESIGNER SHALL ALSO INCLUDE ALL MECHANICAL EQUIPMENT AND PLUMBING SHOWN ON MECHANICAL AND PLUMBING DRAWINGS AS WELL AS FIRE PROTECTION SPRINKLER SHOP DRAWINGS FOR ALL PIPING LARGER THAN 4" INCHES IN DIAMETER AND EQUIPMENT HEAVIER THAN 200 LBS.

TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM LOADS:

DL = 10 PSF (AT ROOF), 20 PSF (AT FLOOR)

LL = SEE DESIGN CRITERIA

LL = 250 LB AT ANY POINT (NFPA-13)

TRUSS SUPPLIER SHALL CALCULATE UPLIFT LOADS BASED ON THE WIND LOAD CRITERIA LISTED IN THESE GENERAL NOTES. AT A MINIMUM THE TRUSSES SHALL BE DESIGNED FOR A NET WIND UPLIFT LOAD OF 14 PSF UNLESS NOTED OTHERWISE.

TRUSS CHORDS AND WEBS SHALL BE DOUGLAS FIR OR SOUTHERN PINE, PS 20, GRADED TO NFPA RULES:

ALL TRUSSES SHALL BE DESIGNED FOR THE ACTUAL DEAD LOAD PLUS LIVE LOAD (SPECIFIED ABOVE). MAXIMUM DEFLECTION DUE TO LIVE LOAD ONLY SHALL NOT EXCEED L/360. MAXIMUM DEFLECTION DUE TO TOTAL LOAD SHALL NOT EXCEED L/240. ROOF SLOPE SHALL BE 1/4" PER FOOT OR GREATER

SUBMIT SHOP DRAWINGS FOR ALL TRUSSES. SHOP DRAWINGS SHALL INDICATE PLACING OF ALL FRAMING MEMBERS SHOWING TYPE, SIZE, NUMBER, LOCATION AND SPACING. THEY SHALL ALSO INDICATE SUPPLEMENTAL BRACING, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION. SHOP DRAWINGS SUBMITTED MUST BE PREPARED UNDER THE SUPERVISION OF AND SEALED BY A REGISTERED PROFESSIONAL

TRUSS MANUFACTURER SHALL PROVIDE A TRUSS LAYOUT PLAN INDICATING ALL TRUSSES WITH PIECE MARKS AND DIMENSIONS. THIS DRAWING SHALL BE SEALED BY THE TRUSS ENGINEER. THEIR SEAL SHALL ONLY ATTEST TO THE PERFORMANCE OF THE TRUSSES, THEIR CONNECTIONS TO ONE ANOTHER (GIRDER TRUSSES, MULTI-PLY, PIGGY-BACK, VALLEY, ETC.) AND THAT ALL NOTED DESIGN LOADS HAVE BEEN ACCOUNTED FOR IN THE DESIGN OF THE TRUSSES. IT IS NOT THE INTENT THAT THE TRUSS ENGINEER BE RESPONSIBLE FOR LOAD PATH BELOW THE BEARING ELEVATION UNLESS CHANGES TO THE TRUSS LAYOUT ARE MADE RELATIVE TO THE CONTRACT DOCUMENTS.

ALL TRUSSES AND CONNECTIONS SHALL BE DESIGNED BY THE SUPPLIER'S ENGINEER. SUBMIT CALCULATIONS FOR ALL TRUSSES AND THEIR CONNECTIONS. CALCULATIONS SHALL INCLUDE ALL DESIGN LOADS, MAXIMUM AXIAL TENSION AND COMPRESSION IN TRUSS MEMBERS, CALCULATED MAXIMUM DEFLECTIONS AND SPAN-TO-DEFLECTION RATIOS FOR LIVE AND TOTAL LOADS, AND REACTION FORCES AND DIRECTIONS, INCLUDING

TRUSS MANUFACTURER SHALL SELECT AND SIZE THE REQUIRED TRUSS UPLIFT ANCHORS, AS DETERMINED FROM THE MAXIMUM UPLIFT REACTION FOR EACH TRUSS. THESE ANCHORS SHALL BE SHOWN ON THE APPROVED TRUSS SHOP DRAWING LAYOUT PLAN. 2. ALL TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL STABILITY. SHOP DRAWINGS SHALL INDICATE ALL LATERAL BRIDGING REQUIRED WHICH SHALL BE SUPPLIED BY THE CONTRACTOR.

13. TRUSS SHOP DRAWINGS SHALL INCLUDE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT REQUIREMENTS CLEARLY NOTED ON THE LAYOUT

14. ALL BRACING MATERIAL SHALL BE A MINIMUM 2x4 SPRUCE PINE FIR NO. 2 OR BETTER ANCHORED WITH AT LEAST (2)16d NAILS AT EACH TRUSS. 15. IF PERMANENT TRUSS RESTRAINT/BRACING FOR TOP, BOTTOM AND WEB MEMBERS ARE NOT DETAILED ON THE TRUSS LAYOUT DRAWINGS, THEN

BRACING SHALL BE IN ACCORDANCE WITH BCSI-B3 OR BCSI-B7 FOR PARALLEL CHORD TRUSSES. TEMPORARY BRACING, WHERE REQUIRED, SHALL BE PROVIDED UNTIL THE ERECTION IS COMPLETE.

17. TRUSS SPANS OF 60 FEET OR GREATER REQUIRE THE TRUSS ENGINEER TO PROVIDE PROJECT SPECIFIC DESIGN FOR THE TEMPORARY INSTALLATION RESTRAINT/ BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING. ALL BRACING MUST BE INDICATED ON THE TRUSS

ALL SHEATHING SHALL BE PLYWOOD OR OSB. ALL PLYWOOD SHEATHING, DIAPHRAGMS, AND SHEAR WALL PANELS SHALL CONFORM TO U.S. PRODUCT STANDARD PS-1-07 WITH EXTERIOR GLUE. ALL OSB SHEATHING, DIAPHRAGMS, AND SHEAR WALL PANELS SHALL CONFORM TO U.S. PRODUCT STANDARD

A. WALL SHEATHING SHALL BE 7/16" EXTERIOR GRADE (SPAN RATING 24/16), UNO IN SHEAR WALL SCHEDULE.

B. ROOF SHEATHING SHALL BE 19/32" EXTERIOR GRADE (SPAN RATING 40/20). C. FLOOR SHEATHING SHALL BE 23/32" EXPOSURE 1 TONGUE & GROOVE (SPAN RATING 48/24).

SHEATHING SHEETS SHALL BE LAID WITH LONG DIMENSION PERPENDICULAR TO THE SUPPORTING FRAMING.

DECKING SHALL BE 2x6 TONGUE AND GROOVE LAMINATED WOOD DECK AS MANUFACTURED BY "LOCK-DECK" OR EQUAL. INSTALL IN CONTINUOUS

DECKING SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

ADHESIVE - 100% EXTERIOR WATERPROOF TYPE MEETING ASTM D2559. FASTEN DECKING TO SUPPORTS WITH (2)16d NAILS PER COURSE AND 6d NAILS @30"OC ALONG COURSES.

DECKING SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM 190.1 AND CERTIFIED BY AN INDEPENDENT INSPECTION AGENCY (APA-EWS). SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DECKING SPECIES, GRADE, AND FINISH.

SUBMIT SHOP DRAWINGS ON DECKING FROM MANUFACTURER SHOWING LOAD CAPACITY AND DEFLECTION CRITERIA.

ANCHOR BOLTS, REINFORCING STEEL, THREADED RODS, STAIR HANDRAILS, AND OTHER EMBEDDED STEEL ITEMS SHALL BE SET INTO HARDENED CONCRETE WITH ADHESIVE OR MECHANICAL POST-INSTALLED ANCHORS ONLY WHERE DETAILED ON THE DRAWINGS OR WHERE APPROVED BY THE

PRE-APPROVED MANUFACTURERS ARE HILTI, SIMPSON STRONG-TIE, AND DEWALT. WHERE DETAILS INDICATE SPECIFIC ADHESIVE OR MECHANICAL POST-INSTALLED ANCHORS, IT IS ACCEPTABLE AT THE CONTRACTOR'S OPTION TO SUBMIT AN ALTERNATE SIMILAR PRODUCT PROVIDED BY A DIFFERENT MANUFACTURER AS LONG AS THE MANUFACTURER'S DATA PROVIDES EQUIVALENT LOAD CAPACITY TO THE ANCHOR SPECIFIED. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED CALCULATIONS THAT DEMONSTRATE THE ALTERNATE PRODUCT IS CAPABLE OF MEETING THE PERFORMANCE OF THE SPECIFIED ANCHOR. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC-ESR SHOWING COMPLIANCE WITH THE GOVERNING BUILDING CODE FOR SEISMIC USE, LOAD RESISTANCE, INSTALLATION CATEGORY, AND THE AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, INSTALLATION TEMPERATURE, MOISTURE CONDITION OF CONCRETE,

BASIS OF DESIGN FOR ADHESIVE ANCHORS DETAILED ON THE DRAWINGS INCLUDES THE FOLLOWING PARAMETERS: CRACKED CONCRETE; WATER-SATURATED CONCRETE; BASE MATERIAL BETWEEN 25 AND 100 DEGREES FAHRENHEIT; AND HOLES MADE BY HAMMER DRILL, HOLLOW DRILL BIT

INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING. HEED ALL LABEL WARNINGS. INSTALL IN ACCORDANCE WITH APPLICABLE SAFETY LAWS. ALL HOLES SHALL BE DRILLED WITH A DIAMETER NO LARGER THAN 1/8" GREATER THAN THE DIAMETER OF THE ANCHOR BEING INSTALLED. ALL HOLES SHALL BE CLEANED WITH COMPRESSED AIR AND SHALL BE DRY PRIOR TO INSTALLATION OF ADHESIVE. HOLES SHALL BE FREE OF ALL DELETERIOUS MATERIAL SUCH AS LAITANCE, DUST, DIRT, AND OIL. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS. WHERE ADHESIVE ANCHORS ARE TO BE INSTALLED IN HOLLOW MATERIAL WITH UNKNOWN CAPACITY, THE CONTRACTOR SHALL INSTALL THE ANCHOR IN

STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. THE ADHESIVE SHALL BE INSTALLED IN THE HOLLOW BASE MATERIAL USING SCREEN TUBES SUPPLIED BY THE MANUFACTURER. THE ADHESIVE SHALL BE CAPABLE OF SUSTAINING MINIMUM TENSION AND SHEAR LOAD CAPACITIES NOTED ON THE DRAWINGS MULTIPLIED BY A FACTOR OF SAFETY OF 4. ALL HARDWARE AND MATERIAL SHALL BE SUPPLIED BY THE ANCHOR MANUFACTURER. CONTRACTOR PERFORMING ADHESIVE WORK SHALL BE AN APPROVED CONTRACTOR BY THE MANUFACTURER FURNISHING THE ADHESIVE MATERIALS, AND SHALL HAVE NO LESS THAN FIVE YEARS EXPERIENCE IN THE VARIOUS TYPES OF ADHESIVE RELATED WORK REQUIRED IN THIS PROJECT. ALTERNATIVELY, THE CONTRACTOR SHALL ARRANGE FOR A REPRESENTATIVE OF THE ANCHOR MANUFACTURER TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL ANCHOR PRODUCTS SPECIFIED. DOCUMENTATION THAT ALL PERSONNEL INSTALLING ANCHORS ARE TRAINED SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.

THE ULTIMATE TENSION AND SHEAR CAPACITIES SHALL BE DETERMINED BY A JOB SITE TEST PERFORMED ON A MINIMUM OF FIVE INSTALLED SAMPLES WHICH ARE REPRESENTATIVE OF THE ACTUAL INSTALLATIONS. TESTING SHALL BE PERFORMED BY THE ADHESIVE ANCHOR MANUFACTURER OR HIS APPROVED REPRESENTATIVE AND SHALL BE DOCUMENTED FOR THE DESIGN PROFESSIONAL.

THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HERE ON.

ABBREVIATIONS

@	ΔΤ
ພ &	
a	
AISC	
AISI	
ALI	
ASTM	AMERICAN SUCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SUCIETY
B/ OF BUI	BOTTOM CHORD EXTENSION
DEE	
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BM	BEAM
BUS	BUTTOM OF STEEL
BRG	BEARING
BIWN	BEIWEEN
CANI	CANTILEVER
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CTRD	CENTERED
d	NAILS (PENNY)
DBA	DEFORMED BAR ANCHOR
DEFL	DEFLECTION
DEPR	DEPRESSION / DEPRESSED
DET	DETAIL
DIAG	DIAGONAL
DIM	DIMENSION
DIST	DISTANCE
DWG(S)	DRAWING(S)
DWL(S)	DOWEL(S)
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
EMBED	EMBEDDED / EMBEDMENT
ENGR	ENGINEER
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EO	EQUAL
EOUIP	EOUIPMENT
EŴ	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FDN	FOUNDATION
	FINISHED FLOOR FLEVATION
FFF	
FFE FOM	
FFE FOM FOW	FACE OF MASONRY FACE OF WALL
FFE FOM FOW FS	FACE OF MASONRY FACE OF WALL FAR SIDE
FFE FOM FOW FS FTG	FACE OF MASONRY FACE OF WALL FAR SIDE FOOTING
FFE FOM FOW FS FTG GA	FACE OF MASONRY FACE OF WALL FAR SIDE FOOTING GAUGE
FFE FOM FOW FS FTG GA GALV	FACE OF MASONRY FACE OF WALL FAR SIDE FOOTING GAUGE GALVANIZED

СТ	
	GIRDER IRUSS
HD	HEADED
HI	HIGH
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
INT	INTERIOR
т	JOINT
ĸ	KIP(S)
KSI	KIPS PER SQUARE INCH
LB	LONG BAR
LBS	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
10	IOW
100	
100	
LSV	
LWC	
MAX	MAXIMUM
MC	MOMENT CONNECTION
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MFR	MANUFACTURER
MID	MIDDLE
MIN	
MISC	MISCELLANEOUS
MOW	MIDDLE OF WALL
MP	MASONRY PILASTER
No or #	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
00	
OPNG	
OPP	OPPOSITE HAND
PAF	POWDER ACTUATED FASTENER
PED	PEDESTAL
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
Р-Т	
REINF	REINFURCING
REQD	REQUIRED
SB	SHORT BAR
SCHD	SCHEDULE
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC(S)	SPECIFICATION(S)
SO	SOUARE
STD	STANDARD
STE	STIEFENED
STIRK	STIRRUP(S)
SIL	SIEEL
STR	STRUCTURAL
Т/	ТОР
TCX	TOP CHORD EXTENSION
тос	TOP CHORD CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	
UNU	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
WWF	WELDED WIRE FABRIC
WP	WORK POINT

SYMBOL LEGEND					
SYMBOL	MEANING				
•	SPOT ELEVATION				
<no></no>	TOP OF FOOTING,				
<u><no> <no></no></no></u>	STEP IN TOP OF F				
No	DEPRESSED OR R				
[No]	TOP OF WALL OR				
(No) [+No]	TOP OF STEEL/JO				
	SLOPED STEPPE				
F#	SPREAD FOOTING				
P#	CONCRETE PEDES				
PC#	PILE CAP TYPE, SI				
GB# WxD	CONCRETE GRAD				
CB# WxD	CONCRETE BEAM				
CJ# WxD	CONCRETE JOIST				
PCB WxD	PRECAST CONCRE				
PT# WxD	POST-TENSIONED				
SR#	STUD RAIL REINF				
CSW#	CONCRETE SHEAF				
MP#	MASONRY PILAST				
ML#	MASONRY LINTEL				
BP#	STEEL BEARING P				
MSW#	MASONRY SHEAR				
	SPAN DIRECTION ROOF DECK.				
	SPAN DIRECTION ROOF DECK.				
	SPAN DIRECTION CONCRETE ON 2" ELEVATION, UNO				
<u>S2</u>	SPAN DIRECTION CONCRETE ON 2" ELEVATION, UNO				
W10	COMPOSITE W10>				
W12	COMPOSITE W12>				
V#, M#, L#, A#, T#	STEEL BEAM DESI INDICATES LATER STRENGTH DESIG				
▶	STEEL BEAM MOM				
VF#	VERTICAL FRAME				
SSW#	METAL STUD SHE				
C#	WOOD COLUMN T				
H#	WOOD HEADER T				
WSW#	WOOD SHEAR WA				

N ELEVATION RELATIVE TO REFERENCE ELEVATION
G GRADE BEAM PILE CAP OR DRILLED PIER ELEVATION RELATIVE TO REFERENCE ELEVATION
ECOTING ELEVATION SEE "TYDICAL STEP IN WALL FOOTING" DETAIL ELEVATION RELATIVE TO REFERENCE ELEVATION
PAISED SLAB ELEVATION SEE "TYDICAL STEP IN SLAB ON GRADE" DETAIL ELEVATION RELATIVE TO REFERENCE ELEVATION.
IN FEDESTAL. ELEVATION RELATIVE TO REFERENCE ELEVATION.
DED CLAR
LU SLAD.
NG TYPE, SEE SCHEDULE.
ESTAL TYPE, SEE SCHEDULE.
SEE SCHEDULE.
DE BEAM TYPE, SEE SCHEDULE. "W" INDICATES BEAM WIDTH AND "D" INDICATES BEAM DEPTH (IN INCHES).
M TYPE, SEE SCHEDULE. "W" INDICATES BEAM WIDTH AND "D" INDICATES BEAM DEPTH (IN INCHES).
ST TYPE, SEE SCHEDULE. "W" INDICATES NOMINAL JOIST WIDTH AND "D" INDICATES JOIST DEPTH (IN INCHES).
RETE BEAM. "W" INDICATES ASSUMED BEAM WIDTH AND "D" INDICATES ASSUMED BEAM DEPTH (IN INCHES).
ED CONCRETE BEAM TYPE, SEE SCHEDULE. "W" INDICATES BEAM WIDTH AND "D" INDICATES BEAM DEPTH (IN INCHES).
NFORCING TYPE, SEE "ELEVATED SLABS STUD RAILS" DETAIL.
AR WALL TYPE, SEE SCHEDULE.
STER TYPE, SEE "TYPICAL MASONRY PILASTERS" DETAIL.
EL TYPE, SEE "TYPICAL LOAD BEARING LINTELS" DETAIL.
FLATE TYPE, SEE "TYPICAL STEEL BEAM BEARING" DETAIL.
R WALL TYPE, SEE SCHEDULE.
IN OF METAL ROOF DECK, SEE "TYPICAL 1 1/2" METAL ROOF DECK" DETAIL. CONSTRUCTION SHALL BE 1 1/2"-22GA METAL
IN OF METAL ROOF DECK, SEE "TYPICAL 3" METAL ROOF DECK" DETAIL. CONSTRUCTION SHALL BE 3"-18GA METAL
ON OF COMPOSITE SLAB, SEE "TYPICAL COMPOSITE SLAB" DETAIL. CONSTRUCTION SHALL BE 3 1/4" LIGHT WEIGHT 2"-20GA COMPOSITE METAL DECK (5 1/4" TOTAL THICKNESS). TOP OF STEEL ELEVATION 5 1/4" BELOW FINISHED FLOOR 0.
ON OF COMPOSITE SLAB, SEE "TYPICAL COMPOSITE SLAB" DETAIL. CONSTRUCTION SHALL BE 4 1/2" NORMAL WEIGHT 2"-20GA COMPOSITE METAL DECK (6 1/2" TOTAL THICKNESS). TOP OF STEEL ELEVATION 6 1/2" BELOW FINISHED FLOOR O.
0x15 STEEL BEAM WITH HEADED STUDS @24"OC.
2x16 STEEL BEAM WITH HEADED STUDS @24"OC.
SIGN END REACTIONS (WHERE APPLICABLE). "V" INDICATES VERTICAL SHEAR, "M" INDICATES BENDING MOMENT, "H" ERAL SHEAR, "A" INDICATES AXIAL TENSION/COMPRESSION, AND "T" INDICATES TORSION. ALL LOADS ARE FACTORED FOR IGN IN UNITS OF KIP AND KIP-FT. ALL LOADS SHALL BE CONSIDERED REVERSIBLE, UNO.
DMENT CONNECTION.
E TYPE, SEE ELEVATIONS.
IEAR WALL TYPE, SEE SCHEDULE.
TYPE, SEE SCHEDULE. ALL COLUMNS ARE TO BE EXTENDED TO THE FOUNDATION WHETHER SHOWN ON PLAN OR NOT.
TYPE, SEE SCHEDULE.

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STEWART

223 S. WEST STREET **T** 919.380.8750 SUITE 1100 FIRM LICENSE #C-1051 RALEIGH, NC 27603 PROJECT #S22092

HCAR

02/12/2024

GENERAL NOTE: Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Description Date

Date Project No. 2/12/2024 22042

Sheet Title ABBREVIATIONS AND SYMBOL LEGEND

Sheet No.

S0.3

Revisions

Drawn By VNA

Checked By MBC

27582

NC

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UXFC

GRA 303

WALL TYPE, SEE SCHEDULE.

FOUNDATION PLAN 1/8" = 1'-0" S1.1

FOUNDATION PLAN NOTES:

- 1. SEE S0.1 THRU S0.3 FOR GENERAL NOTES, ABBREVIATIONS, AND SYMBOL LEGEND. 2. SEE S3.1 FOR TYPICAL SLAB CONSTRUCTION DETAILS.
- 3. SEE S3.2 FOR TYPICAL FOUNDATION DETAILS.
- 5. SLOPE EXTERIOR SLABS, SIDEWALKS, AND PAVING AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- 6. REFERENCE FINISHED FLOOR ELEVATION 0'-0". ACTUAL ELEVATION IS 465.00'. 7. ——— INDICATES PT (3)2X12 GIRDERS.
- 8. INDICATES PT 2X12 JOISTS AT 16" OC.

4. DIMENSIONS ARE TO OUTSIDE FACE OF FRAMING, UNO. REFER TO ARCHITECTURAL DRAWINGS FOR ALL WALL LOCATIONS AND DIMENSIONS.

VERTICAL REINF, - SEE OTHER DETAILS	
REINF CELLS ADJACENT TO - JOINT USING QUANTITY AND SIZE BARS INDICATED IN OTHER DETAILS	STOP JOINT REINF AT CONTROL JOINT, TYP; BOND BEAMS AT FLOORS AND TOW SHALL BE CONT THRU JOINT
JOINT, SEE ARCH - FOR LOCATIONS	HORIZONTAL JOINT REINF
NOTES: 1. PROVIDE DOWELS TO FOUNDATION M. NOTES OR MINIMUM SPLICE AND EMB 2. ALL CONTROL JOINT LOCATIONS SHAL INTERIOR PARTITION WALLS, JOINTS 1 1/2 TIMES THE WALL HEIGHT AND 2 RECORD IF JOINTS ARE NOT LOCATED 3. MASONRY WALL CONTROL JOINTS SHA 4. DO NOT INSTALL CONTROL JOINTS SHA 4. DO NOT INSTALL CONTROL JOINTS SHA 5. MASONRY WALL CONTROL JOINTS DO DO NOT INSTALL MASONRY WALL CON 6. WHERE A CONTROL JOINT OCCURS WI INSTALLED ON EACH SIDE OF THE JOI 7 S4.1 NTS	ATCHING SIZE OF VERTICAL REINFORCING, TYPICAL. SEE GENERAL EDMENT LENGTH SCHEDULE FOR LAP REQUIREMENTS. L BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS. FOR SHALL HAVE A MAXIMUM SPACING DETERMINED FROM THE LESSER OF 5 FEET. FOR STRUCTURAL WALLS, CONTACT THE ENGINEER OF ON PLAN. ALL NOT BE LOCATED WITHIN 24" OF THE EDGES OF WALL OPENINGS. STAIR OR ELEVATOR CORE WALLS. NOT NECESSARILY ALIGN WITH VENEER CONTROL JOINT LOCATIONS. ITROL JOINTS ONLY AT VENEER JOINT LOCATIONS. ITROL JOINTS ONLY AT VENEER JOINT LOCATIONS. ITHIN A MASONRY SHEAR WALL, END WALL REINFORCING MUST BE NT. ASSONRY WALL CONTROL JOINT
	EQ EQ
	VERTICAL JOINT REINF (SEE 1/S4.1) VERTICAL REINFORCING CENTERED IN CELL GROUTED SOLID
	PLAN 8" CMU

S4.1 NTS

GENERAL GROUTING REQUIREMENTS:

- 1. ALL REINFORCED CELLS SHALL BE GROUTED SOLID. 2. REINFORCING BARS SHALL BE IN PROPER POSITION PRIOR TO PLACEMENT OF GROUT, NOT PUSHED DOWN INTO PREVIOUSLY PLACED GROUT. SAME REQUIREMENT APPLIES FOR EMBEDDED BOLTS AND
- FASTENERS.
- 3. MORTAR BEDDING UNDER THE FIRST COURSE OF BLOCK CELLS TO BE GROUTED SHALL PERMIT GROUT TO COME INTO DIRECT CONTACT WITH FOUNDATION.
- 4. PLACE MORTAR ON CROSS WEBS ADJACENT TO ALL GROUTED CELLS. 5. MORTAR THAT PROJECTS MORE THAN 1/2" INTO CELLS THAT ARE TO BE GROUTED SHALL BE REMOVED.
- 6. GROUTED CELLS SHALL BE MECHANICALLY VIBRATED DURING PLACEMENT OF GROUT. TEN MINUTES AFTER PLACING GROUT, EACH GROUTED CELL SHALL BE RECONSOLIDATED WITH A VIBRATOR.
- 7. METAL LATH SHALL BE PLACED UNDER ALL BOND BEAMS IN ORDER TO CONTAIN GROUT. FELT OR OTHER BOND BREAKING MATERIAL IS NOT PERMITTED. AS AN ALTERNATIVE TO THIS, "U"-SHAPED LINTEL BLOCKS MAY BE USED FOR BOND BEAMS.
- 8. EITHER LOW LIFT GROUTING OR HIGH LIFT GROUTING PROCEDURES MAY BE UTILIZED, AT THE CONTRACTOR'S OPTION.
- LOW LIFT GROUTING PROCEDURE:
- 1. LAY WALL TO MAXIMUM OF 5'-0". 2. CLEAN MORTAR AND OTHER DEBRIS FROM CELLS TO BE GROUTED.
- 3. PLACE REINFORCING BARS IN PROPER POSITION.
- 4. PLACE GROUT UP TO LIFT HEIGHT AND VIBRATE.
- HIGH LIFT GROUTING PROCEDURE:
- 1. CLEANOUT OPENINGS SHALL BE PROVIDED IN THE FACE SHELLS OF THE BOTTOM COURSE OF ALL
- CELLS TO BE GROUTED. OPENINGS SHALL BE LARGE ENOUGH TO ALLOW REMOVAL OF DEBRIS. 2. LAY WALL TO MAXIMUM POUR HEIGHT AND CLEAN DEBRIS FROM OPENINGS. PLACE REINFORCING BARS
- IN PROPER POSITION.
- 3. CLEAN MORTAR AND OTHER DEBRIS FROM CELLS TO BE GROUTED.
- 4. MASONRY SHALL CURE A MINIMUM OF 4 HOURS PRIOR TO GROUTING.
- 5. PLACE GROUT TO THE FOLLOWING HEIGHTS: MAXIMUM LIFT HEIGHT IS 5'-0"; MAXIMUM POUR HEIGHT IS 12'-0" UNLESS EXPRESSLY COORDINATED WITH THE STRUCTURAL ENGINEER.
- 6. AFTER THE LIFT IS POURED, VIBRATE TO ELIMINATE ALL AIR VOIDS. WAIT BETWEEN 3 AND 10 MINUTES, THEN RECONSOLIDATE BY VIBRATING AGAIN. CONTINUE THIS PROCEDURE FOR FULL POUR HEIGHT. RECONSOLIDATE THE PRIOR LIFT BY EXTENDING THE VIBRATOR THROUGH THE CURRENT LIFT INTO THE PREVIOUS LIFT.
- 7. GROUT SLUMP MUST BE MAINTAINED BETWEEN 10 AND 11 INCHES FOR HIGH LIFT GROUTING.

NOTES: 1. PROVIDE DOWELS TO FOUNDATION MATCHING SIZE OF VERTICAL REINFORCING,

TYPICAL. SEE GENERAL NOTES OR MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE FOR LAP REQUIREMENTS.

TYPICAL WALL CORNER S4.1 / NTS

NOTES:

- 1. REINFORCING SHOWN IS A MINIMUM REQUIREMENT, INDIVIDUAL WALL SECTION REINFORCING REQUIREMENTS (SUCH AS NUMBER OR SIZE OF BARS) SHALL TAKE PRECEDENCE OVER THE REQUIREMENTS SHOWN HEREIN. SEE INDIVIDUAL WALL SECTIONS AND SCHEDULES FOR VERTICAL REINFORCING REQUIREMENTS.
- 2. ALL DISCONTINUOUS REINFORCEMENT SHALL BE LAPPED PER MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE.
- 3. VERTICAL STEEL MUST BE SECURED IN PLACE BEFORE THE BLOCKS ARE LAID. ALL VERTICAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH MASONRY LINTELS AND BOND BEAMS, UNO.
- 4. AT OPENINGS WHERE STEEL BEAM LINTELS ARE PROVIDED, REINFORCE THE JAMB CELL TO THE BEARING ELEVATION OF THE LINTEL, AND REINFORCE THE NEXT ADJACENT CELL PAST THE END OF THE BEAM FULL HEIGHT AS SHOWN IN THIS DETAIL.
- 5. DETAIL DOES NOT APPLY TO INTERIOR NON-LOAD BEARING PARTITION WALLS. 6. PROVIDE MINIMUM (2) LEGS OF W1.7 HORIZONTAL JOINT REINFORCING @ 16"OC VERTICALLY.

MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE					
BAR SIZE	LAP SPLICE				
#3	27"				
#4 36"					
#5	45"				
#6	54"				
#7 63"					
#8	#8 72"				

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LOAD BEARING WALL CONSTRUCTION SCHEDULE							
STORY	TYPE	SIZE/GAUGE	Fy	SPACING	BRIDGING		
1ST FLOOR TO ROOF	EXTERIOR	600S162-54	50 KSI	16"OC	4'-0"OC MAX		
	EXTERIOR, CORNER ZONE	600S162-54	50 KSI	12"OC	4'-0"OC MAX	CORNER	
	INTERIOR	600S162-54	50 KSI	16"OC	4'-0"OC MAX		

MINIMUM FASTENER REQUIREMENTS FOR FRAMING							
NUMBER/SPACING OF FASTENERS REQUIRED PER CONNECTION						ECTION	
CONNECTION		3 x0.148	3 1/4 x0.131	3 x0.131	2 1/2 x0.131	3 1/4 x0.120	3 x0.120
			FLC	OR FRAM	ING		
JOIST TO BAND JOIST	3	5	5	5	NA	6	6
LEDGER STRIP	3	4	4	4	6	4	4
JOIST TO SILL OR GIRDER	3	3	3	3	3	4	4
BLOCKING BTWN JOIST OR RAFTER TO TOP PLATE	3	3	3	4	3	4	4
BRIDGING TO JOIST	NA	NA	NA	NA	2	3	3
RIM JOIST TO TOP PLATE	8"OC	6"OC	6"OC	6"0C	6"OC	6"0C	4"0C
BUILT-UP GIRDERS AND BEAMS - SPACING ALONG EDGES - NUMBER AT ENDS AND SPLICES	24"OC 3	24"OC 3	24"OC 3	24"OC 3	16"OC 4	16"OC 3	16"OC 3
			CEILING A	ND ROOF	FRAMING	ì	
CEILING JOIST TO PLATE	3	4	5	5	5	5	5
CEILING JOISTS, LAPS OVER PARTITIONS	3	4	4	4	6	4	4
CEILING JOIST TO PARALLEL RAFTER	3	4	4	4	6	4	4
COLLAR TIE TO RAFTER	3	3	4	4	5	4	4
JACK RAFTER TO HIP, TOE NAILED	3	3	4	4	5	4	4
JACK RAFTER TO HIP, FACE NAILED	2	3	3	3	3	4	4
ROOF RAFTER TO PLATE	3	3	3	3	3	4	4
ROOF RAFTER TO 2x RIDGE BEAM (DRIVEN THRU BEAM INTO END OF RIDGE)	2	3	3	3	NA	4	4
ROOF RAFTER TO 2x RIDGE BEAM (TOE NAIL RAFTER TO BEAM)	2	3	3	3	3	4	4
			WA	ALL FRAMI	NG		
TOP OR SOLE PLATE TO STUD, END NAILED	2	3	3	3	5	4	4
STUD TO TOP OR SOLE PLATE, TOE NAILED	3	4	4	4	4	4	4
CAP/TOP PLATE LAPS AND INTERSECTIONS (EACH SIDE OF LAP)	2	3	3	3	4	3	3
DIAGONAL BRACING	2	2	2	2	2	3	3
SOLE PLATE TO JOIST OR BLOCKING AT BRACED PANELS (NUMBER PER 16" JOIST SPACE)	2	3	3	4	NA	4	4
SOLE PLATE TO JOIST OR BLOCKING	16"OC	8"OC	8"OC	8"OC	6"OC	8"OC	8"OC
DOUBLE TOP PLATE	16"OC	16"OC	12"OC	12"OC	8"OC	12"OC	12"OC
DOUBLE STUDS	12"OC	12"0C	8"OC	8"OC	6"OC	8"OC	8"OC
CORNER STUDS	24"0C	16"OC	16"OC	16"OC	8"0C	12"0C	12"OC

NOTES:

1. NAIL LENGTHS SHOWN ARE A MINIMUM NOMINAL LENGTH (IN INCHES). NAIL SHANK

DIAMETERS SHOWN ARE A MINIMUM NOMINAL DIAMETER (IN INCHES).

2. THIS FASTENING SCHEDULE APPLIES TO FRAMING MEMBERS HAVING AN ACTUAL THICKNESS OF 1 1/2" (NOMINAL 2x LUMBER).

3. FASTENINGS LISTED ABOVE MAY ALSO BE USED FOR OTHER CONNECTIONS THAT ARE NOT LISTED BUT THAT HAVE THE SAME CONFIGURATION AND THE SAME CODE REQUIREMENT

FOR FASTENER QUANTITY/SPACING AND FASTENER SIZE (PENNYWEIGHT AND STYLE).

4. WHERE OTHER DRAWING OR SPECIFICATION REQUIREMENTS CONFLICT WITH THIS SCHEDULE, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

_							
	METAL						
	MARK SHEATHING SCREW TYPE SIZE	S	CREW SPACIN	IG			
		SIZE	PANEL EDGE	AROUND OPENINGS	PANEL FIELD	END PC	
	SSW1	7/16" OSB	#8	6"OC	6"OC	12"OC	(2)600S2
					•		

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67'-0" 4'-0" 4'-0" 2'-8" 4'-0" 2'-8" 4'-0" 2'-8" 4'-0" 2'-8" 4'-0" 4'-0" 4'-0" 4'-0" 4'-0" 4'-0" 4'-0" 4'-0" 10'-8" (A2.0) (3) (A3.1) (A7.1)¹² \mathbb{W}^2 7 A7.1 1 A3.2 DINING 102 KITCHEN 103 (W2) H1 10-4 3 $\langle W2 \rangle$ 103C REF. A3.1 1 102A / STOR 한 102A 4 104 3 **W**2 28'-3" 8'-2" A3.2 7 9'-6" A3.2 10'-10" 102B . [1, [3] A7.1 6 $\langle S2 \rangle$ A2.0 **(**\$1**)** LOBBY 100 WOMEN 106 [100AB **S**3 >A3.1 A7.1) A7.1 _____ STOR / HEALTH 으 112 ち 1-8" MIN-6'-2" 16'-3" (W1) MENS 107 RECEP 100B (100B) HALL (W1) OFFICE 113 110 ELEC/TEL 110 <u>22'-5" 9</u> A7.1 9'-6" [13] 7'-6" 12'-11" 6'-6" CRAFT ROOM 26'-3" 7'-6" MED MP 109 | 2-STOR 109A (W1) (109A) 2 ____ | (W1) | 2 (W1) A2.0 A3.1 3'-0" 4'-0" 14'-4" 10'-4" 5'-0" 4'-0" 35'-8" 2'-8" 1 FLOOR PLAN A1.1 1/8" = 1'-0"

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WALL LEGEND		S ²⁵⁰⁰
EXTERIOR HARDIE PANEL STUD WALL - VERTICAL SIDING MARK PLAN VIEW REMARKS	EXTERIOR HARDIE PANEL STUD WALL - HORIZONTAL SIDING	52.937.1
1 TOP OF WALL = SEE WALL SECTION	2 TOP OF WALL = SEE WALL SECTION	
9 1/4" 9 1/4" HARDIE V-GROOVE VERTICAL SIDING, PAINTED HORIZ. HAT CHANNEL OVER VERTICAL STRAPPING AT 16" O.C. SEE WALL SECTIONS. FLUID APPLIED WATERPROOFING, FULL HEIGHT, TYP. 1 1/2" CONTINUOUS RIGID INSULATION 5/8" GLASS MAT SHEATHING, TYP. R-19 FIBERGLASS BATT INSULATION 6" STEEL STUDS AT 16" O.C. 5/8" GYPSUM BOARD, FULL HEIGHT TO UNDERSIDE OF ROOF EXTERIOR STONE VENEER ON METAL STUD	9 1/4" HARDIE V-GROOVE HORIZ. SIDING OR APPROVED EQUAL, PAINTED VERTICAL HAT CHANNEL OVER HORIZ. STRAPPING AT 16" O.C., SEE WALL SECTIONS. FLUID APPLIED WATERPROOFING, FULL HEIGHT, TYP. 1 1/2" CONTINUOUS RIGID INSULATION 5/8" GLASS MAT SHEATHING, TYP. R-19 FIBERGLASS BATT INSULATION 6" STEEL STUDS AT 16" O.C. 5/8" GYPSUM BOARD, FULL HEIGHT TO UNDERSIDE OF ROOF EXTERIOR STONE VENEER MASONRY STEM WALL	109 Candlewood Road, Rocky Mount, NC 2780 305 W. Martin Street, Ralleidh, NC 2
MARK PLAN VIEW REMARKS	MARK PLAN VIEW REMARKS	
1'-1" MASONRY FULL-DEPTH STONE VENEER, 8" BELOW GRADE MIN, TYP. FLUID APPLIED WATERPROOFING, FULL HEIGHT, TYP. MASONRY ANCHORS @ 16" O.C., TYP. 1 1/2" CONTINUOUS RIGID INSULATION 5/8" GLASS MAT SHEATHING R-19 FIBERGLASS BATT INSULATION 6" STEEL STUDS AT 16" O.C. 5/8" GYPSUM BOARD, TO UNDERSIDE OF TRUSSES	MASONRY FULL- DEPTH STONE VENEER, 8" BELOW GRADE MIN, TYP. R-15 STARTING AT SLAB EDGE TO FOOTING OR FOR 24", TYP. MASONRY ANCHORS FILL SOLID BELOW FF, TYP. NOM. 4" CMU, FILLED SOLID, SEE SECTIONS	SOUNTY
MARK PLAN VIEW REMARKS	MARK PLAN VIEW REMARKS	O
35/8" 5/8" GYPSUM BOARD FULL HEIGHT EACH SIDE SOUND BATT INSULATION FULL HEIGHT 35/8" 20 GA STEEL STUDS AT 16" O.C. WITH HORIZONTAL BRIDGING AT 48" O.C. INTERIOR CHASE STUD WALL - 3 5/8" MARK PLAN VIEW REMARKS 7 Common Structure 35/8", 6 5/8" GYPSUM BOARD FULL HEIGHT NO GYPSUM BOARD FULL HEIGHT NO GYPSUM BOARD ON CHASE SIDE OF WALL 35/8" 20 GA STEEL STUDS AT 16" O.C. WITH HORIZONTAL BRIDGING AT 48" O.C.	6" 5/8" GYPSUM BOARD FULL HEIGHT EACH SIDE SOUND BATT INSULATION FULL HEIGHT 6" 20 GA STEEL STUDS AT 16" O.C. WITH HORIZONTAL BRIDGING AT 48" O.C	NEW CENTER ANNILL REMORTER ARANNILL SENNOR CENTER GRANNLE COUNTY GRANNLE COUNTY
GENERAL ELOOR PLAN NOTE	S	THE POCKY MOUNT NUMBER
 DIMENSIONS ON THIS PLAN ARE FROM: OUTSIDE FACE OF STONE VENEER TO OUTSIDE FACE OF STOTHERWISE. EXTERIOR FACE OF STUD TO EXTERIOR FACE OF STUD WH OUTSIDE FACE OF CMU BLOCK TO OUTSIDE FACE OF CMU INTERIOR FACE OF STUD (IFOS) ON EXTERIOR WALLS FOR CENTERLINE OF STUDS FOR INTERIOR STUD WALLS. OUTSIDE FACE OF FLOOR WHERE APPLICABLE. PROVIDE BRACING BACK TO STRUCTURE FOR INTERIOR WALLS ALL DRYWALL SHALL BE 5/8" AND SHALL EXTEND 4" MINIMUM / INSTALL SOUND ATTENUATION BATT INSULATION FULL HEIGH INSTALL SOUND ATTENUATION BATT INSULATION 4' WIDE ARC WALLS. VERIFY ALL DIMENSIONS AND SIZES PRIOR TO CONSTRUCTION SCHEDULE AND COORDINATE ALL INSPECTIONS REQUIRED. OBTAIN ALL PERMITS REQUIRED. COORDINATE ALL SCHEDULES WITH THE OWNER PRIOR TO CONSTRUCTION REFER TO STRUCTURAL PLANS FOR ALL STRUCTURAL HEADE SEE DOOR AND WINDOW SCHEDULES FOR ALL DOOR AND WINDOW SCHEDULE	STONE VENEER ON EXTERIOR WALLS, TYPICAL UNLESS NOTED HEN NOTATED (EFOS). FOR STEM WALL PLAN DIMENSIONS. INTERIOR DIMENSIONS. LS, TYPICAL. ABOVE FINISH CEILING (U.N.O.) T IN ALL INTERIOR STUD FRAMED WALLS. DUND CEILING PERIMETER OF ALL ROOMS WITH SOUND BATT IN N. ONSTRUCTION. ERS. NDOW SIZES.	GENERAL NOTE: Prior to construction start. Contractor shall verify & be responsible for all Dimensions.
	N KEYNOIES (#) Note Text	
01 ATTIC ACCESS LADDER PER NCBC 1209.2 02 CANOPY O.H., SEE SECTIONS AND ROOF PLAN. ALT 03 NOM. 8" x 8" PT COLUMN ALIGNED WITH GIRDER LIN 04 SIDEWALK, SEE CIVIL 05 CONTINUOUS GUARDRAIL, SEE DETAILS 06 CONTINUOUS HANDRAIL, SEE DETAILS	ERNATE G-1. IE BENEATH DECK, TYP. SEE STRUCTURAL. WRAP W/ 5/4" FINISH TCH BACK RAILING POSTS, SEE DETAIL. ALTERNATE G-1.	Date Project No. FEB 12 2024 22042 Drawn By Sheet No. TW
		Checked By DG Sheet Title FIRST FLOOR PLAN

0'

4'

<u>-1⊔⊔⊔⊔</u> 8' 4'

OUTDOOR DECK PLAN A1.2 1/8" = 1'-0"

GENERAL FLOOR PLAN NOTES

. DIMENSIONS ON THIS PLAN ARE FROM:

- A. OUTSIDE FACE OF STONE VENEER TO OUTSIDE FACE OF STONE VENEER ON EXTERIOR WALLS, TYPICAL UNLESS NOTED OTHERWISE.
- B. EXTERIOR FACE OF STUD TO EXTERIOR FACE OF STUD WHEN NOTATED (EFOS). C. OUTSIDE FACE OF CMU BLOCK TO OUTSIDE FACE OF CMU FOR STEM WALL PLAN DIMENSIONS.
- D. INTERIOR FACE OF STUD (IFOS) ON EXTERIOR WALLS FOR INTERIOR DIMENSIONS.
- E. CENTERLINE OF STUDS FOR INTERIOR STUD WALLS.
- F. OUTSIDE FACE OF FLOOR WHERE APPLICABLE. PROVIDE BRACING BACK TO STRUCTURE FOR INTERIOR WALLS, TYPICAL.
- 3. ALL DRYWALL SHALL BE 5/8" AND SHALL EXTEND 4" MINIMUM ABOVE FINISH CEILING (U.N.O.)
- 4. INSTALL SOUND ATTENUATION BATT INSULATION FULL HEIGHT IN ALL INTERIOR STUD FRAMED WALLS. 5. INSTALL SOUND ATTENUATION BATT INSULATION 4' WIDE AROUND CEILING PERIMETER OF ALL ROOMS WITH SOUND BATT IN
- WALLS.
- 6. VERIFY ALL DIMENSIONS AND SIZES PRIOR TO CONSTRUCTION. 7. SCHEDULE AND COORDINATE ALL INSPECTIONS REQUIRED.
- 8. OBTAIN ALL PERMITS REQUIRED.

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- 9. COORDINATE ALL SCHEDULES WITH THE OWNER PRIOR TO CONSTRUCTION. 10. REFER TO STRUCTURAL PLANS FOR ALL STRUCTURAL HEADERS.
- 11. SEE DOOR AND WINDOW SCHEDULES FOR ALL DOOR AND WINDOW SIZES.

FLOOR PLAN KEYNOTES Noto Tovt

Note	Text

01	ATTIC ACCESS LADDER PER NCBC 1209.2
02	CANOPY O.H., SEE SECTIONS AND ROOF PLAN. ALTERNATE G-1.
03	NOM. 8" x 8" PT COLUMN ALIGNED WITH GIRDER LINE BENEATH DECK, TYP. SEE STRUCTURAL. WRAP W/ 5/4" FINISH GRADE WESTERN RED CEDAR NO. 2. FINISH TO MATCH BACK RAILING POSTS, SEE DETAIL. ALTERNATE G-1.
04	SIDEWALK, SEE CIVIL
05	CONTINUOUS GUARDRAIL, SEE DETAILS
06	CONTINUOUS HANDRAIL, SEE DETAILS

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Sheet Title STEM WALL & DECK PLANS

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GENERAL FLOOR PLAN NOTES

. DIMENSIONS ON THIS PLAN ARE FROM:

- A. OUTSIDE FACE OF STONE VENEER TO OUTSIDE FACE OF STONE VENEER ON EXTERIOR WALLS, TYPICAL UNLESS NOTED OTHERWISE.
- B. EXTERIOR FACE OF STUD TO EXTERIOR FACE OF STUD WHEN NOTATED (EFOS). C. OUTSIDE FACE OF CMU BLOCK TO OUTSIDE FACE OF CMU FOR STEM WALL PLAN DIMENSIONS.
- D. INTERIOR FACE OF STUD (IFOS) ON EXTERIOR WALLS FOR INTERIOR DIMENSIONS.
- E. CENTERLINE OF STUDS FOR INTERIOR STUD WALLS.
- F. OUTSIDE FACE OF FLOOR WHERE APPLICABLE. . PROVIDE BRACING BACK TO STRUCTURE FOR INTERIOR WALLS, TYPICAL.
- 3. ALL DRYWALL SHALL BE 5/8" AND SHALL EXTEND 4" MINIMUM ABOVE FINISH CEILING (U.N.O.)
- 4. INSTALL SOUND ATTENUATION BATT INSULATION FULL HEIGHT IN ALL INTERIOR STUD FRAMED WALLS. 5. INSTALL SOUND ATTENUATION BATT INSULATION 4' WIDE AROUND CEILING PERIMETER OF ALL ROOMS WITH SOUND BATT IN
- WALLS.
- 6. VERIFY ALL DIMENSIONS AND SIZES PRIOR TO CONSTRUCTION. 7. SCHEDULE AND COORDINATE ALL INSPECTIONS REQUIRED.
- 8. OBTAIN ALL PERMITS REQUIRED.
- 9. COORDINATE ALL SCHEDULES WITH THE OWNER PRIOR TO CONSTRUCTION.
- 10. REFER TO STRUCTURAL PLANS FOR ALL STRUCTURAL HEADERS. 11. SEE DOOR AND WINDOW SCHEDULES FOR ALL DOOR AND WINDOW SIZES.

ATTIC LEGEND

3/4" PLYWOOD WALK/PLATFORM ATTACHED TO TOP OF TRUSS BOTTOM CHORD. VERIFY LOCATION AND EXTENTS WITH MECHANICAL AND TRUSS CONFIGURATION.

NOTES: . GUARDRAIL TO BE PROVIDED ALONG PLYWOOD FLOOR EDGE AT ANY LOCATION THAT IS LOCATED MORE THAN 30" VERTICALLY TO FLOOR BELOW AT ANY POINT WITHIN 36" HORIZONTALLY TO THE EDGE OF THE OPEN SIDE, TYP.

	FLOOR PLAN KEYNOTES						
#	Note Text						
01	ATTIC ACCESS LADDER PER NCBC 1209.2						
02	CANOPY O.H., SEE SECTIONS AND ROOF PLAN. ALTERNATE G-1.						
03	NOM. 8" x 8" PT COLUMN ALIGNED WITH GIRDER LINE BENEATH DECK, TYP. SEE STRUCTURAL. WRAP W/ 5/4" FINISH GRADE WESTERN RED CEDAR NO. 2. FINISH TO MATCH BACK RAILING POSTS, SEE DETAIL. ALTERNATE G-1.						
04	SIDEWALK, SEE CIVIL						
05	CONTINUOUS GUARDRAIL, SEE DETAILS						
06	CONTINUOUS HANDRAIL, SEE DETAILS						

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GENERAL NOTE: Prior to construction

start. Contractor shall verify & be responsible for all Dimensions.

Description Date

Project No. 22042

Sheet No.

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Sheet Title ATTIC PLAN

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CERT NO. 50681 Jui Bollier GENERAL NOTE: Prior to construction

start. Contractor shall verify & be responsible for all Dimensions. levisions # Description Date Project No. Date 22042 FEB 12 2024 Sheet No. Drawn By ΤW A1.5 Checked By DG Sheet Title REFLECTED CEILING PLAN

- MINIMUM AND 60 INCHES MAXIMUM FROM FINISH FLOOR TO BASELINE OF ALL BRAILLE CELLS. A CLEAR SPACE OF 18X18 INCHES SHALL BE LOCATED IN FRONT OF THE SIGN,

FIN	NISH PL	AN NO	DTE	S						S
1. ALL 2. ALL 3. SEH 4. VEF 5. TS REC 6. HEI 7. CO RAI 8. CO PO ARI 9. CO	 ALL EXISTING HM DOOR AND WINDOW FRAMES TO RECEIVE NEW PAINT, COLOR PER ARCHITECT. ALL EXISTING COVER PLATES FOR DEVICES TO BE REPLACED WITH ALL NEW SS COVER PLATES. SEE INTERIOR ELEVATIONS FOR FULL EXTENT OF WALL FINISHES AS KEYED IN PLANS. VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO INSTALLATION OF FINISHES. TS = FURNISH AND INSTALL TRANSITION STRIP AT ALL FLOOR MATERIAL CHANGES AS SHOWN OR AS REQUIRED. HEIGHT AND PROFILE OF ALL TRANSITIONS STRIPS SHALL COMPLY WITH HANDICAP CODE. COLOR FOR ALL TRANSITION STRIPS SHALL BE AS SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE. COORDINATE LOCATION OF ALL TRANSITION STRIPS WITH EXISTING AND NEW CONDITIONS. WHERE POSSIBLE, LOCATE TRANSITION STRIPS UNDER DOOR SLABS. NO EXPOSED SLAB PERMITTED IN FINISHED AREAS. COORDINATE SIZE OF ALL TRANSITION STRIPS WITH FINISH MATERIALS. 						OAKLEY Collier Architect			
FIN	NISH LEO	GEND)							\triangleleft
NOR FLC	ROOM NAME ROOM NUMBER TH EAST SOUTH WEST OOR BASE SIGNAGE	W/ N,I **F SH	ALL FINIS E,S,W) PLAN DIR IEET	HES BAS	ED ON P REFERS ⁻	LAN DIRECTI	on (plan Tion on th	HIS	NORTH LSSM SOUTH	00
WALL	FINISH				Fl	LOOR FINISH				
PT-1 INTERIOR FIELD PAINT 1 PT-1A INTERIOR FIELD EPOXY PAINT PT-2 INTERIOR ACCENT PAINT PT-3 INTERIOR ACCENT PAINT 3 PT-4 INTERIOR ACCENT PAINT 4 WT WALL TILE WALL BASE EFP-1 EPD 4 DURDEED BASE							\			
TB-1 WB-1	TILE BASE WOOD BASE	E								
SURF	ACE FINISH				CI	EILING FINISH	1			I C
PL-1 PL-2 PL-3	P-LAM 1 P-LAM 2 P-LAM 3	QS-1 SS-1 SS-2	QUARTZ SOLID S SOLID S	21 URFACE URFACE	1 / 2 (ACT-1 ACC ACT-2 ACC GWB GYI	OUSTICAL OUSTICAL PSUM WAL	ceiling til Ceiling til L Board	E E	С Ш
				ROOM FII	NISH SCH	IEDULE				
ROOM NO	ROOM NAME	FLOOR	BASE	NORTH	W/ EAST	ALL FINISH SOUTH	WEST	SIGNAGE	NOTES	
100 100A	VESTIBULE	LVT-1H LVT-1H	RB-1 RB-1	P1-1	PI-1		P1-1			
100B 101	CORRIDOR	LVT-1H LVT-1	RB-1 RB-1	PT-1 PT-1	PT-1 PT-1	PT-2 PT-1	PT-1 PT-1	A -		
102 102A	DINING STOR	LVT-1H	RB-1 RB-1	PT-1 PT-1	PT-2 PT-1	PT-1 PT-1	PT-1 PT-1	B		
103	KITCHEN	*LVT-1	RB-1	PT-1A	PT-1A	PT-1A	PT-1A	B		
103A 103B	NUTR PANTRY	LVT-1	RB-1 RB-1	PT-1 PT-1A	PT-2 PT-1A	PT-1 PT-1A	PT-1 PT-1A	B		
104	JAN	LVT-1	RB-1	PT-1A	PT-1A	PT-1A	PT-1A	В		
105	CLASSROOM	FF	RB-1	PI-1	PI-1	PI-1	P1-2	В		
105A	STOR	FF	RB-1	PT-1	PT-1	PT-1	PT-1	B		
100	MENS	FT-1	-	WT-1	WT-1	WT-2	WT-1	C		
108	CRAFT ROOM	LVT-1	RB-1	PT-1	PT-2	PT-2	PT-1	B		
109 109A	STOR	LVT-1	RB-1 RB-1	PT-1 PT-1	PT-1 PT-1	PT-3 PT-1	PT-1 PT-1	B		
110	ELEC/TEL	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	В		
111	HALL STOR /	LVI-1 CPT-1	RB-1 RB-1	PT-1 PT-1	PT-1 PT-1	PT-1 PT-2	PT-1 PT-1	A		
440	HEALTH				DT 4			•		
113	DECK	WD	KB-1	P1-1	P1-1	P1-2	P1-1	A		ULER ARCA
FL	oor fin	IISH F	ILL L	EGE	IND					THE CONTRECTURAL C
	CPT-1: CA	RPET TILE	1			FT-	1: FLOOR	TILE 1		POCKY MOUNT
	LVT-1H: LU HERRINGE	JXURY VINY BONE PATTE	'L TILE Ern			wc	OD DECK	OR ALTERN	IATE G-4	W. COL
	LVT-1: LUX	(URY VINYL	TILE			OM MA	NI-SPORT PLE OR AF	s 7.1 mm in Proved e	GOLDEN QUAL	Cunto Bol
NOTE 1. PA 2. SE	NOTES: 1. PATTERNS IN THIS LEGEND APPLY TO FLOOR FINISH PLAN ONLY. 2. SEE FINISH SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.									

CORIAN SOLID SURFACE VANITY TOP, PRICE GROUP "F", WITH -----

ACCEPTED.

TOILET ACCESSORIES SCHEDULE								
TAG	DESCRIPTION	MANUF.	MODEL NO.	Mounting Height				
PD	PAPER TOWEL DISPENSER	A.S.I.	20210	48" TO SLOT				
T2	SURFACE MOUNTED SOAP DISPENSER	A.S.I.	9343	50 7/8" TO TOP				
T3	STAINLESS STEEL FRAMED MIRROR	A.S.I.	20650	40" TO BOTTOM				
T4	SINGLE ROLL TISSUE DISPENSER	A.S.I.	7305-S-R009	27" C.L.				
GB36	1 1/2" DIA. X 36" S.S. GRAB BAR - PEENED	A.S.I.	3800-36P	34" C.L.				
GB42	1 1/2" DIA. X 42" S.S GRAB BAR - PEENED	A.S.I.	3800-42P	34" C.L.				
GB18	1 1/2" DIA. X 18" S.S (VERTICAL) GRAB BAR - PEENED	A.S.I.	3800-18P	39" TO BOTTOM				
T5	SOLID PLASTIC TOILET PARTITION	ACCURATE	-	-				
 ALL TOILET ACCESSORIES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS FOR SPECIFIC APPLICATIONS IN COMPLIANCE WITH ALL APPLICABLE CODES. WHERE INDICATED AND AS REQUIRED, TOILET ACCESSORY INSTALLATION SHALL COMPLY WITH NC ACCESSIBILITY CODE. FURNISH AND INSTALL ALL NECESSARY FRAMING AND BLOCKING AS REQUIRED FOR PROPER INSTALLATION AND OPERATION OF ALL ACCESSORIES. MANUFACTURED AND MODEL ANIMPEDS INDICATED REPRESENT BASIS OF DESIGN. APPROVED FOULD S WILL DE 								
4. MANUFACTURER AND MODEL NUMBERS INDICATED REPRESENT BASIS OF DESIGN. APPROVED EQUALS WILL BE								

HC ACCESSORIES LEGEND

COORDINATE STUB-OUTS WITH

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OVER FLASHING, TYP. 1/2" HAT CHANNEL, 20 GA, @ 24" O.C., TYP SELF-ADHERING SS SHEET FLASHING, 6" MIN. VERTICAL W/ TERMINTATION BAR SEALANT, TYPICAL

5/8" TYPE X GYPSUM BOARD FULL HEIGHT

6" BATT INSULATION FULL HEIGHT

6" STEEL STUDS @ 16" O.C. WITH HORIZONTAL BRIDGING AT

HARDWOOD WINDOW SILL, TYPICAL CONTINUOUS TRACKS, SEE

ALUMINUM STOREFRONT SYSTEM, SEE WINDOW SCHEDULE CONTINUOUS SEALANT ALL AROUND, TYPICAL

2" x 3" x .062" BENT ALUMINUM ANGLE CONTINUOUS BACKER ROD AND - CONTINUOUS BACKER ROD AND

HARDIE TRIM, 3/4" x 3 1/2" SMOOTH TRIM BOARD OR APPROVED EQUAL

CONTINUOUS ALUMINUM FLASHING

OF VERTICAL SIDING. ATTACH TO STRAPPING BENEATH, TYP. (VERTICAL HAT CHANNELS @ VERTICAL SIDING)

FLUID APPLIED VAPOR BARRIER

CONTINUOUS BACKER ROD AND PREMANUFACTURED MTL FLASHING W/ DRIP EDGE, TYP.

TRIM BOARD OR APPROVED EQUAL

W/ TERMINTATION BAR HARDIE TRIM, 3/4" x 3 1/2" SMOOTH

FLASHING, 6" MIN. VERTICAL CONTINUOUS ALUMINUM FLASHING

SELF-ADHERING SS SHEET

FLUID APPLIED VAPOR BARRIER

IG-1

IG-2

REFER TO SCHED. 1'-6"

REFER TO SCHED

|| IG-1 || IG-1

100A

IG-2

STOREFRONT - ELEVATIONS

IG-2

FINISH FLOOR

1/4" = 1'-0"

IG-2

 $\langle S3 \rangle$

0.H.

COILING

DOOR ·

A6.1

4'-0"

IG-1

IG-2

 $\langle S2 \rangle$

IG-1

IG-2

					DOO	ĸ			
DOOR		SIZE				DESCRIPTION			
NUMBER	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	GLAZING	ELEVATION	RATING	MATERIA
100A	6'-10"	8'-0"	1 3/4"	ALUMINUM	PREFINISHED	1" DOUBLE PANE, LOW E, AIR FILLED, FULLY TEMPERED SAFETY GLASS	S1		ALUMINUM
100AB	6'-10"	8'-0"	1 3/4"	ALUMINUM	PREFINISHED	1" DOUBLE PANE, LOW E, AIR FILLED, FULLY TEMPERED SAFETY GLASS			ALUMINUM
100B	3'-6"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	-	D1		H.M.
101B	3'-4"	7'-0"	1 3/4"	H.M.	PAINTED	1/4" INSULATED TEMPERED, TINTED	D3		H.M.
101C	3'-4"	7'-0"	1 3/4"	H.M.	PAINTED	1/4" INSULATED TEMPERED, TINTED	D3		H.M.
102A	3'-6"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	-	D1		H.M.
102B	7'-0"	7'-0"	1 3/4"	S.C. WOOD	PAINTED	1/4" TEMPERED			H.M.
102C	3'-4"	7'-0"	1 3/4"	H.M.	PAINTED	1/4" INSULATED TEMPERED, TINTED	D3		H.M.
103A	3'-6"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	-	D1		H.M.
103B	3'-6"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	-	D1		H.M.
103C	3'-6"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	-	D1		H.M.
103D	3'-4"	7'-0"	1 3/4"	H.M.	PAINTED	1/4" INSULATED TEMPERED, TINTED	D3		H.M.
104	3'-6"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	-	D1		H.M.
105A	6'-0"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	-	D6		H.M.
105B	7'-0"	7'-0"	1 3/4"	S.C. WOOD	PAINTED	1/4" TEMPERED	D7		H.M.
105C	3'-4"	7'-0"	1 3/4"	H.M.	PAINTED	1/4" INSULATED TEMPERED, TINTED	D3		H.M.
106	3'-6"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	-	D1		H.M.
107	3'-6"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	-	D1		H.M.
108	3'-6"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	1/4" INSULATED TEMPERED	D2		H.M.
109	3'-6"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	1/4" INSULATED TEMPERED	D4		H.M.
109A	3'-6"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	-	D1		H.M.
110	3'-6"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	-	D1		H.M.
111	3'-6"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	-	D1		H.M.
112	3'-6"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	-	D1		H.M.
113	3'-6"	7'-0"	1 3/4"	S.C. WOOD	FACTORY STAIN	-	D1		H.M.

DOOR SCHEDULE

	FRAME			
DESCR	IPTION		DETAILS	
FINISH	ELEVATION	RATING	SILL	REMARKS
REFINISHED	S1			
REFINISHED				
PAINTED	F1			
REFINISHED				
PAINTED	F1			
PAINTED	F2			
PAINTED	F1			

19'-8" 4'-11" 1'-6" 7'-0" 4'-10" , 1'-5" TRIM BOARD. IG-1 IG-1 || IG-1 || IG-1 IG-1 100A IG-2 IG-2 IG-2 IG-2 |IG-2| $\langle S1 \rangle$

GENERAL DOOR NOTES

- . ALL HARDWARE SHALL MEET ALL APPLICABLE HANDICAP CODES.
- 2. TEMPERED GLAZING SHALL BE USED AS NOTED AND AS REQUIRED BY CODE. 3. EXTERIOR DOOR GLAZING SHALL BE 5/8" TEMPERED
- INSULATING, TYPICAL, U.N.O. 4. EXTERIOR DOOR GLAZING SHALL BE TINTED TO MATCH STOREFRONT GLAZING
- 5. FURNISH AND INSTALL DOOR CLOSERS AS SCHEDULED IN COMPLIANCE WITH ALL APPLICABLE CODES.
- 6. ALL HOLLOW METAL DOOR FRAMES SHALL BE FULLY WELDED TYPE, FACTORY PRIMED, AND FIELD PAINTED. COLOR PER ARCHITECT. INSTALL PER MANUFACTURER FOR PROPER INSTALLATION AND OPERATION FOR SPECIFIC APPLICATIONS. . ALL WOOD DOORS SHALL BE STAIN GRADE, SPECIES, AND
- COLOR PER ARCHITECT. 8. ALL ALUMINUM STOREFRONT AND DOORS SHALL BE PREFINISHED COLOR AS SELECTED BY ARCHITECT FROM
- MANUFACTURER'S FULL RANGE OF COLORS. 9. DOOR THRESHOLDS SHALL BE 1/2" MAXIMUM HEIGHT 10. ALL EXISTING DOORS, ASSOCIATED DOOR HARDWARE, AND FRAMES TO REMAIN SHALL BE ACCESSED PRIOR TO RENOVATION. ALL EXISTING DOORS, DOOR HARDWARE, AND FRAMES TO REMAIN SHALL BE CLEANED & REFURBISHED TO MATCH PROJECT STANDARDS.

LEGEND

- H# INTERIOR HOLLOW METAL WINDOW ASSEMBLY, SEE SPECIFICATION.
- W# EXTERIOR HOLLOW METAL WINDOW ASSEMBLY, SEE SPECIFICATION
- S# -INTERIOR ALUMINUM STOREFRONT
- C# ALUMINUM CURTAIN WALL

GLAZING

INSULATED GLASS SAFETY GLASS SG RATED SAFETY GLASS RSG IG - 1 TINTED IG - 2 TINTED TEMPERED IG - 4 TINTED LAMINATED IG - 5 SPANDREL SG - CG CLEAR SG - CT CLEAR, TEMPERED SG - FT FROSTED, TEMPERED

WINDOW NOTES

- 1. ALL EXTERIOR STOREFRONT GLAZING SHALL BE OUTSIDE GLAZED 1" INSULATING TINTED GLASS AS NOTED IN SCHEDULE, TYPICAL.
- PROVIDE ALL NECESSARY FRAME ANCHORS AS REQUIRED FOR SPECIFIC INSTALLATIONS. 3. ALL GLAZING WITHIN 24" OF VERTICAL EDGE OF DOORS
- SHALL BE TEMPERED. TEMPERED GLAZING SHALL BE USED AS NOTED AND AS REQUIRED BY CODE. 4. ALL FRAMING SYSTEMS SHALL BE DESIGNED, ENGINEERED AND FABRICATED BY THE SYSTEM
- MANUFACTURER TO MEET ALL APPLICABLE CODES SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. 5. ALL FRAMING DIMENSIONS AS SHOWN ARE ROUGH
- OPENING DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR EXACT FINISH DIMENSION AT JOB SITE PRIOR TO FABRICATION. . HORIZONTAL LOUVER BLINDS SHALL BE FURNISHED AND
- INSTALLED ON ALL EXTERIOR WINDOWS.

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PLUMBING KEY NOTES

2° COLD WATER PIPE BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK BEGINS 5'-0° OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION, BACKFLOW PREVENTER AND WATER METER.

 $\langle 12 \rangle$ RISE UP IN WALL TO ABOVE FINISHED CEILING.

(1.3) WATER PIPING ABOVE FINISHED CEILING. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

4" SANITARY SEWER PIPE BELOW FINISHED GRADE, PLUMBING CONTRACTOR'S WORK EXTENDS 5'-0" OUTSIDE BUILDING, SEE SITE PLAN FOR CONTINUATION.

22 INVERT ELEVATION IS TO BE 2.32' BELOW FINISHED FLOOR.

(2.3) SANITARY SEWER PIPE BELOW FINISHED FLOOR.

 $\langle 3. \rangle$ ELECTRICAL EQUIPMENT BY ELECTRICAL CONTRACTOR.

PLUMBING KEY NOTES

		FLU	MBING	FIX TURE		DULE				
				3 - EG	NUALS			PIP	ING CONNECTION	٧S
SYMBOL / IMAGE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
CO-I	WALL CLEANOUT	ZURN	CO-2413-PVC	MIFAB		JR SMITH		-	-	SEE PLUME DRAWINGS
	ACCESS COVER	ZURN	CO-2530-SS	MIFAB		JR SMITH				
	PVC CLEANOUT BO ACCESS COVER.	DDY AND PLUG TO BE	E GAS AND WATER	? TIGHT, PLUG TO HAVE	A BRASS THREA	ADED INSERT TO RECEIV	/E SECURING SCRI	EW FOR STAINL	ESS STEEL RO	DUND
				L						SEE PLIM
CO-2	FLOOR CLEANOUT									DRAWINGS
	PVC CLEANOUT WI	TH AND ADJUSTABLE	PVC RIJER, NICKE	L BRONZE FRAME AND	COVER, AND AN	ABS TAPER THREADEL	PLUG. CLEANOU	TTO BE GAS A	ND WATERING	1.
CO-3	EXTERIOR CLEANOUT	ZURN	Z-1449-BP	WATTS	CO-380-34B	JR SMITH	4283	-	-	SEE PLUMI DRAWINGS
	CLEANOUT FERRULI	E WITH CAST IRON BO	DDY, WITH GAS AN	ID WATERTIGHT BRONZE	E PLUG, MOUNT IN	I CONCRETE.	Ι		Ι	1
E EWC-I	WATER COOLER	OASIS	P8SBFSL	ELKAY	LZSTL8WS	HALSEY TAYLOR	HTHB-HACDBLPV-WF	1/2"	-	2"
	PROVIDE WITH FRO	NT AND SIDE CONTRO	DLS, SHUT-OFF VA	LVE, CARRIER, AND TRA	AP, PROVIDE STAI	NLESS STEEL FINISH, PR	OVIDE WITH BOTT	'LE FILLER.		
FD-I	FLOOR DRAIN	ZURN	ZN4151	WATTS	FD-100-ER	MIFAB	FI00-CC-DD	I/2"	-	3"
	FLOOR DRAIN TO H CONNECTION.	AVE A CAST IRON BO	ODY WITH 3" BOTT	OM OUTLET, ADJUSTAB	LE COLLAR, POLI	SHED 7" DIAMETER NICK	EL BRONZE STRA	INER, AND 1/2" T	RAP PRIMER	T
FD-2	FLOOR DRAIN	ZURN	ZN415H	WATTS	FD-100-FC	MIFAB	F1000-C	I/2 "	-	3"
	FLOOR DRAIN TO H PRIMER CONNECTIC	IAVE A 3" WASTE BO' N.	TTOM OUTLET, CA	ST IRON BODY WITH AE	JUSTABLE COLLA	AR, POLISHED NICKEL BI	RONZE ROUND HE	ELPROOF STRA	INER, AND 1/2" 1	TRAP
н	ANTIFREEZE HOSE BIBB	WOODFORD	65	WATTS	HY-420	MIFAB	MHY-15	3/4"	-	-
	ANTIFREEZE HOSE TEE KEY FOR EAC	BIBB SHALL HAVE AL H HOSE BIBB, MOUNT	JTOMATIC DRAINING 12° ABOVE FINISHE	G WITH ANTI-SIPHON VA D GRADE.	CUUM BREAKER.	3/4" INLET AND OUTLET	r. Exterior finish	H TO BE CHRON	1E, PROVIDE WI	TH LOOSE
H-2	HOSE BIBB	CHICAGO	952	WOODFORD	21	ZURN	Z875L7	3/4"	-	-
	HOSE BIBB SHALL F FOR EACH HOSE E	HAVE AUTOMATIC DR 31BB, MOUNT 12" ABOVE	AINING WITH ANTI-9 E FINISHED FLOOR.	SIPHON VACUUM BREAK	ÆR, 3/4" INLET AN	ND OUTLET. EXTERIOR F	FINISH TO BE CHR	OME, PROVIDE V	NITH LOOSE TE	Æ KEY
₹ €	LAVATORY	KOHLER	K-2196-4-0	SLOAN	SS-3002	AMERICAN STANDARD	0476.028			
	FAUCET	SLOAN	ETF-600	AMERICAN STANDARD	6056.202	MOEN	CA8302			
		McGUIRE	8902	DEARBORN BRASS	702-1	KOHLER	K-8999			2"
	SUPPLY SELF-RIMMING LAVA SENSOR, FAUCET S PLATED BRASS STU CHROME PLATED (MCGUIRE ATORY SHALL BE MAI SHALL BE CHROME FII OPS WITH THREADED CAST BRASS BODY W	DE OF VITREOUS (NISH, 4" CENTERS, CONNECTIONS, FU	BRASS CRAFT CHINA WITH A WHITE FII WITH 3/8" COPPER SUF ILL TURN BRASS STEM, AST BRASS FI BOW, CAY	R1912AC NISH, HAVE 4" CE IPLY TUBE INLETS REDUCER, AND F ST BDASS SUP N	KOHLER NTERS, AN OVERFLOW, , AND PROVIDED WITH / LANGE. INLET SHALL BE	K-7605-P-CP AND INCLUDE SEA AN AERATOR, RIGI 3/8" IPS, OUTLET	I/2" ALANT. DECK M ID SUPPLY KIT S SHALL BE 3/8" STRAINER AND	UNTED HARDV GHALL INCLUDE IPS. P-TRAP S TRI IEBRO I AV	WIRED CHROME 6HALL BE
	PROVIDE FAUCET V	WITH COVER PLATE A	ND WATER-TEMPE	RATURE LIMITING DEVIC	E THAT CONFOR	MS TO ASSE 1070 OR (CSA BI25.3.			
MR-1		STERN WILLIAMS	SB-900		TSBIOO		004	1/08	1/08	3"
A A		STERN WILLIAMS	T-10-VB		897RCF	MOEN	8124	I/2"	I/2*	
	MOP BRACKET MOP RECEPTOR SH	STERN WILLIAMS STERN WILLIAMS IALL BE 24" x 24" x 12"	T-40 DEEP WITH ONE	FIAT FIAT PIECE STAINLESS STEE	889CC L CAP, NO FLANG	GES.				
₹ P-I	RECIRCULATING PUMP	ΒξG	PL36							
	RECIRCULATING PU BY LICENSED ELEC	L MP SHALL BE 1/6 HOR TRICAL CONTRACTOR	2SEPOWER, 120 VOI 2.	IT, SINGLE PHASE. PRO	UDE PUMP WITH	I MOUNTING BRACKET, TI	MER, AQUASTAT ,	I AND DISCONNEC	L CT, DISCONNEC	i wiring

			PLU	MBING	FIXT
	SYMBOL / IMAGE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	MANUFACT
Æ	S-I	ART SINK	JUST	SL-ADA-1921-A-GR	ELKAY
		FAUCET	T & S BRASS	B-0228	CHICAGO
		PLASTER TRAP	ZURN	ZA-1180	WADE
	200	SUPPLY	McGUIRE	170	KOHLER
		STRAINER	McGUIRE	JB-99	ELKAY
		SINK IS TO BE 18 G KIT SHALL INCLUDE INSULATOR.	L GAUGE STAINLESS STER CHROME PLATED BRA	LEL, SELF-RIMMING. ASS STOPS WITH '	I DECK MOUN THREADED (
4	S-2	2-COMPARTMENT SINK	REGENCY	60052171718GRT	
		FAUCET	TES BRASS	EC-3101	
		TRAP	McGUIRE	8902	KOHLER
	NO IMAGE	SUPPLY	McGUIRE	170	KOHLER
		STRAINER	JUST	JB-99	ELKAY
		SINK IS TO BE 16 G RIDGID SUPPLY KIT WITH McGUIRE PRC	I GAUGE STAINLESS STEE SHALL INCLUDE CHRO IWRAP INSULATOR. PRO	L EL, SPLASH MOUN ME PLATED BRAS OVIDE WITH DISPO	TED HARDWI S STOPS WI SAL IF REQL
4	S-3	HAND SINK	ADVANCE TABCO	7-PS-70	JUST
		FAUCET	TES BRASS	EC-3101	
		TRAP	ADVANCE TABCO	К-27	McGUIRE
Ć		SUPPLY	McGUIRE	158LK	ELJER
l		WALL HUNG STAINL CHROME FINISH, 4" BRASS STEM, REDL	.ESS STEEL HAND SINK CENTERS, AND PROVID JCER AND FLANGE. P-"	K, 4" CENTERS. SEE DED WITH AN AER TRAP SHALL BE C	E ARCHITEC ATOR. RIGID HROME PLA
	SA-I	SHOCK ABSORBER	JOSAM	75000	ZURN
		TO STANDARD PDI	WH-201 OF THE PLUME	BING AND DRAINA(GE INSTITUTE
	TP-I	TRAP PRIMER	MIFAB	MR-500	
		PRESSURE DROP AG	CTIVATED BRASS TRAF	P SEAL PRIMER, W	ITH INLET OF
¥	U-I	URINAL	KOHLER	K-5016-ET	SLOAN
	C C C C C C C C C C C C C C C C C C C	VALVE	SLOAN	ECOS 186 HW-0.5	
		CARRIER	ZURN	Z-1221	JR SMITH
		URNIAL SHALL BE I PLATED SPUD, COL	MADE OF VITREOUS CI JPLING AND FLANGE.	HINA WITH A WHIT	E FINISH AN
46	WC-I	WATER CLOSET	KOHLER	K-96057-0	SLOAN
	Hoo	SEAT	BEMIS	1655SSC	KOHLER
	D	VALVE	SLOAN	III-I.6/I.I	DELANY
		TOILET SHALL BE N FRONT LESS COVE	MADE OF VITREOUS CH R FOR ELONGATED BO	HINA WITH A WHIT OWL, EXPOSED HA	E FINISH ANI RDWIRED SE
*	WH-I	WATER HEATER	STATE INDUSTRIES	CSB-52-13.5 IFE	A.O. SMITH
		ELECTRIC WATER H 100° RISE, PROVIDE HEAT TRAPS AND	L HEATER SHALL HAVE A WITH EXPANSION TAN MEET THE ENERGY EF	A 50 GALLON STO K AND HEAVY DU FICIENCY REQUIRE	L DRAGE CAPA TY FUSIBLE I EMENT PER 2
PLUMBI	NG SCHEDULE NOTES AND	LEGEND:			
l.	THE PLUMBING CONTRACTO	OR MAY SUBSTITUTE	FIXTURES WITH OWNER	RS' APPROVAL,	
2.	SUBMIT CUT SHEETS FOR A	ALL PROPOSED FIXTU		RIOR TO BIDDING.	
3. 4. L	REFER TO MANUFACTURER	< UN ALL EQUIPMEN 25 WEB SITE FOR CL	I REQUIRING PLUMBING	, ON THE FIXTURES	AND APPUR

 ADA COMPLIANT

 Image: Complex of the second second

3 - E(QUALS			PIP	ING CONNECTION	15
ER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITAR'I SEWER
	LRAD-2219					
	891			1/2"	1/2"	
	W-575050					2"
	K-76-6-P	BRASSCRAFT	CS400AC			
	LK-99	DEARBORN	L7			
D FAUC	CET SHALL BE CHR DNS AND FLANGE.	OME FINISHED, WITH 1/2 INLET AND OUTLET SH	2" INLET AND PRO' ALL BE 3/8" IPS. P	, VIDED WITH AN PROVIDE WITH M	AERATOR. RIDO	SID SUPPL'
				I		
				I/2"	I/2"	
	K8999	DEARBORN BRASS	702-1			2"
	K-76-6-P	BRASSCRAFT	CS400AC			
	LK-99	DEARBORN	L7			
) SENS	ORED FAUCET SHA DED CONNECTIONS	ALL BE CHROME FINISH 5 AND FLANGE. INLET 2	IED, WITH 1/2" INLE" AND OUTLET SHAL	T AND PROVIDEI L BE 3/8" IPS. F	D WITH AN AEI PROVIDE WITH F	RATOR. PROVIDE
DBY A						
	LRAD-3319					
						2"
	802-0315	KOHLER	K-760I-P	1/2"	/2"	
PPLY K	AWINGS FOR MOUN (IT SHALL INCLUDE	NTING HEIGHT. SPLASH CHROME PLATED BRA	MOUNTED HARDW SS STOPS WITH T	IRED SENSORED HREADED CONN) FAUCET SHAI NECTIONS, FULL	LL BE . TURN
AND F	PROVIDED WITH FL	ANGE.	1	1		
	Z1700	WADE	4480			
NECHA	NICAL BELLOWS, F	RESSURIZED INERT GA	S CHAMBER AND	CERTIFICATION	STAMP AS CO	NFORMING
	1	1	1	1		
				I/2"	-	-
ING OF	1/2" MALE N.P.T. A	ND OUTLET OPENING (OF FEMALE 1/2" N.F	P.T., SERVES UP	TO 6 FLOOR I	DRAIN
	SU7009	AMERICAN STANDARD	6541.132			2"
				3/4"	-	
	636	WATTS	CA-3I			
3/4" TOF	P SPUD. EXPOSED	HARDWIRED SENSOR. (I FLUSH VALVE W	 /ITH 3/4" CHRO	 ME
	07.0000					
	ST-2029	AMERICAN STANDARD	2305.100			4"
	K-4670-C-0	CHURCH	9500C			
		ZURN		ľ	-	
12" RC	NGH-IN AND 1 1/2" [.] ROME PLATED FLL	TOP SPUD. SEAT SHALI JSH VALVE WITH I 1/2" (L BE EXTRA HEAV CHROME PLATED S	Y WEIGHT SOLI	D PLASTIC WIT ; AND FLANGE,	H OPEN
,		· · · · · · · · · · · · · · · · · · ·				
		LOCHINVAR		/4"	/4"	
ΓΥ, AN	ELECTRIC INPUT C	F 13.5 KW AT 240 VOL	T, SINGLE PHASE	AND A RECOVE	RY OF 55 GPH	
NORTH	JI, WIRING BY LICE I CAROLINA STAT	ENSED ELECTRICAL CO E BUILDING CODE: ENE	NIRACTOR. WATE	R HEATER TO E ON CODE.	3E PROVIDED V	VITH
NANCE	S USED IN THIS SC	CHEDULE.				
NANCE	S USED IN THIS SC	CHEDULE.				
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	S USED IN THIS SC	CHEDULE.				
	S USED IN THIS SC	HEDULE.				
NANCE	S USED IN THIS SC	HEDULE.				
VANCE	S USED IN THIS SC	HEDULE.				
NANCE	S USED IN THIS SC	HEDULE.				

PLUMBING GENERAL NOTES

- I. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
- 2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE PLUMBING CONTRACTOR.
- 3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN, THE PLUMBING CONTRACTOR SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
- 4. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION, ALL DISCREPANCIES OR INTERFERENCE'S SHALL BE BROUGHT TO THE ENGINEERS ATTENTION.
- 5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS, FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
- 6. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK, THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR AND FINISHING BY GENERAL CONTRACTOR. 7. WATER PIPING BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE) AND ABOVE
- GRADE TYPE "L" COPPER, SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR ONE HOUR AT 150 PSI. TEST TO COMPLY WITH ALL EPA STANDARDS. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
- 8. ALL PIPE, FITTINGS, FIXTURES, AND SOLDER TO BE LEAD FREE.
- 9. WATER PIPING LOCATED ABOVE CEILINGS AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE OF CEILING INSULATION (UNDERSIDE) AND WALL INSULATION (INSIDE).
- IO. ALL COLD AND HOT WATER PIPING SHALL BE INSULATED, INSULATE WASTE PIPING AS DESIGNATED ON PLUMBING DRAWINGS, INSULATION SHALL BE I' FIBERGLASS, EXPOSED PIPING TO BE WRAPPED WITH ALUMINUM JACKET.
- II. DO NOT SUPPORT PIPING FROM BAR JOIST BRIDGING AND/OR ROOF DECK.
- 12. WATER SHUT OFF VALVES ABOVE FINISHED CEILING ARE TO BE FREE FROM OBSTRUCTIONS SUCH AS DUCTWORK, LIGHTS, WIRING AND OTHER PIPING SO AS TO PROVIDE EASY ACCESS. MOUNT NO MORE THAN 2'-O" ABOVE FINISHED CEILING.
- 13. IF THE WATER PRESSURE EXCEEDS 80 PSI A PRESSURE REDUCING VALVE SHALL BE INSTALLED WHERE THE WATER ENTERS THE BUILDING.
- 14. PLUMBING CONTRACTOR SHALL PROVIDE A DIELECTRIC UNION WHEN CONNECTING DISSIMILAR MATERIAL. 15. WATER HEATERS SHALL HAVE AND EFFICIENCY MEETING REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE.
- 16. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL AND CONTROL CONNECTIONS TO THE EQUIPMENT FURNISHED UNDER HIS CONTRACT.
- 17. SANITARY SEWER AND VENT PIPING SHALL BE SCHEDULE 40 PVC. CELLULAR CORE (FOAM CORE) IS NOT ALLOWED. SANITARY SEWER AND VENT PIPING SHALL BE GAS AND AIR TIGHT. 18, THE PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO
- INSTALLATION OF ANY WORK. 19. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS FOR WORK BY OTHERS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH WORK BY OTHERS AND AVOID ALL CONFLICTS.
- 20. LOCATIONS OF UTILITIES (WASTE AND WATER PIPING, ETC.) PROVIDED BY OTHERS, THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE FINAL CONNECTIONS AS REQUIRED.
- 21. VERIFY THE LOCATION OF ALL EQUIPMENT SUPPLIED BY OTHERS.
- 22. PROVIDE VACUUM BREAKERS ON ALL EQUIPMENT DIRECTLY CONNECTED TO THE WATER SYSTEM,
- 23. ALL VENT PIPING THROUGH THE ROOF SHALL BE A MINIMUM OF 15'-0" FROM ALL MAKE-UP AIR INLETS OR A MINIMUM OF 2'-O" ABOVE THE TOP OF ALL MAKE-UP AIR INLETS. VENTS THROUGH ROOF ARE TO BE ON REAR OF BUILDING.
- 24. SEE ARCHITECTURAL DRAWINGS FOR PLUMBING MINIMUM FACILITY CALCULATIONS.
- 25, ALL INDIRECT WASTE IS TO BE PROVIDED WITH AN AIR GAP 2 TIMES THE SIZE OF THE WASTE INLET. 26. THE PLUMBING CONTRACTOR SHALL VERIFY BUILDING FLOOR ELEVATION IS ABOVE MANHOLE RIM ELEVATION OR PROVIDE A BACKWATER VALVE AS REQUIRED.
- 27. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR DEMOLITION AT NO COST TO THE OWNER.
- 28. THE PLUMBING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.

PLUMBING SYMBOL LEGEND DESCRIPTION SYMBOL

_____ _____ _------

0	

COLD WATER PIPING
WATER PIPING DIRECTION OF FLOW
COLD WATER PIPING BELOW FINISHED FLOOR
HOT WATER PIPING BELOW FINISHED FLOOR
120° F HOT WATER PIPING
BALL VALVE
WATER PIPING TURNED DOWN
WATER PIPING TURNED UP
PIPING SIDE CONNECTION
TRAP PRIMER
SANITARY SEWER / WASTE PIPING
SANITARY SEWER / WASTE PIPING DIRECTION OF FLOW
VENT PIPING
VENT PIPE UP
PLUMBING FIXTURE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR
PLUMBING FIXTURE PROVIDED BY OTHERS AND INSTALLED BY PLUMBING CONTRACTOR

PLUMBING LOAD SUMMARY

WATER DEMAND FU	WATER DEMAND GPM	SANITARY SEWER DEMAND FU	PLU		
94	65	56	LE RISE		

GENERAL NOTE

1 MECHANICAL PLAN M1.1 SCALE: 1/8" - 1"-0"

MECHANICAL KEY NOTES

 $\langle I \rangle$ RETURN/SUPPLY DUCT TO/FROM ATTIC. SEE MI.2 FOR CONTINUATION.

 $\langle 2 \rangle$ EXHAUST DUCT TO ATTIC. SEE MI.2 FOR CONTINUATION.

1 MECHANICAL ATTIC PLAN M1.2 SCALE: 1/8" - 1'-0"

MECHANICAL KEY NOTES

(I) SUPPLY/RETURN DUCT TO/FROM FIRST FLOOR. SEE MI.I FOR CONTINUATION.

 $\langle 2 \rangle$ DUCTWORK LOCATED BELOW ATTIC PLATFORM.

 $\langle 3 \rangle$ EXHAUST DUCT FROM FIRST FLOOR. SEE MIJ FOR CONTINUATION.

 $4 \qquad \text{ROUTE OUTSIDE AIR DUCT AS HIGH AS POSSIBLE.}$

EXTERNAL LEVENCE OF LEVENCE Image: Levence of the set of my knowledge and belef, the design of the building complex with the mechanical systems, service systems and set of the built of the North Carolino State Energy Code. Image: Levence of the set of my knowledge and belef, the design of the builting complex with the mechanical systems. EXERCISE Set of my knowledge and belef, the design of the building complex with the mechanical systems. Image: Levence of the builting structure of the builting complex with the mechanical systems. ESIGNED:
Doller in Ma total boller capacity, if oversized state reason. Chiller i NA total chiller capacity, if oversized state reason. LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES ON SHEET(S) THIS SHEET EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS) motor horsepower: number of phases: motor hype: ** of poles: DESIGNER STATEMENT To the best of my knowledge and beller, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Caroling State Energy Code, SIGNED: MARK BASS OF SCD 4 CONE NAME: Patrick J McCabe, PE To the best of my knowledge and beller, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Caroling State Energy Code, NAME: Patrick J McCabe, PE To the best of my knowledge and beller, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Caroling State Energy Code, SIGNED: MARK BASC E SUPPLY Reside: Supple: NAME: Patrick J McCabe, PE TA Stoce RETURN TA Stoce RETURN
TITLE: PRICE EXHAUST EA PRICE EXHAUST NOTES: I. COORDINATE FINISH WITH ARCHI 2. GRILLE TO HAVE FULLY LOUVER 3. PROVIDE WITH INSULATED SHEET 4. FRAME FOR SURFACE MOUNTIN 5. PROVIDE WITH OPPOSED BLADE

SPLIT-SYSTEM HEAT PUMP SCHEDULE

IN	SIDE	UNIT	٢					OUTSIDE UNIT										
F	=AN		SUPP.	ELE	CTRK	CAL		BASIS OF	CAP	ACITY	HEATING	ELE	CTRIC	AL	EFFIC	XENCY	NOTEC	
CFM	SP.	ΗP	HEAT	POWER	FLA	MOCP	MARK	DESIGN	TOTAL	SENSIBLE	CAPACITY	POWER	FLA	MOCP	COOLING	HEATING	NULES	
1450	05	3/4	9.6 kW	230/1	46.0	60	HP-I	TRANE 4TWR4048	48.2 MBH	35.4 MBH	29.2 MBH	230/1	20.7	45	14.5 SEER	8.5 HSPF	I-7	
1450	05	3/4	9.6 kW	230/1	46.0	60	HP-2	TRANE 4TWR4048	48.2 MBH	35.4 MBH	29.2 MBH	230/1	20.7	45	14.5 SEER	8.5 HSPF	⊢ 7	
600	05	1/3	4.8 kW	230/1	22.8	30	HP-3	TRANE 4TWR4018	18.5 MBH	13,4 MBH	10.6 MBH	230/1	9.5	20	14.5 SEER	8,5 HSPF	I-7	
1600	05	1	9.6+4.8	230/1	47.6+20	60+25	HP-4	TRANE 4TWR5060	57.5 MBH	44.4 MBH	36.0 MBH	230/1	26.5	50	14.5 SEER	8.5 HSPF	1,3-9	
1300	05	3/4	9.6 kW	230/1	46.0	60	HP-5	TRANE 4TWR4048	48.2 MBH	35.4 MBH	29.2 MBH	230/1	20.7	45	14.5 SEER	8.5 HSPF	I-7	
1650	0.5	1	9.6 kW	230/1	47.6	60	HP-6	TRANE 4TWR5060	57.5 MBH	44.4 MBH	36.0 MBH	230/1	26.5	50	14.5 SEER	8.5 HSPF	1-8	

SIBLE DISCONNECT ON INDOOR AND OUTDOOR UNITS.

GLE POINT ELECTRICAL CONNECTION. DGRAMMABLE THERMOSTAT WITH 10 HR BATTERY BACKUP AND 2 HOUR OVERRIDE..

SUMMARY FOR OUTSIDE AIR INTAKE FLOW SETTINGS. TE TO EXTERIOR SPLASH BLOCK.

V AMBIENT CONTROLS FOR OPERATION DOWN TO 0 DEGREES FAHRENHEIT.

LEATED FILTER RACK AND FILTER AT UNIT. NGINEERED SOLUTIONS DEHUMIDIFICATION CONTROL MODULE WITH WALL MOUNTED HUMIDISTAT. CIRCUITS FOR ELECTRIC HEAT. CIRCUIT ONE CONTAINS 9.6 KW AND MOTOR AMPS OF 7.6 AMPS.

TAINS 4.8 KW OF ELECTRIC HEAT.

FUSER SCHEDULE

	MAX. CFM	FACE SIZE	NECK SIZE	NOTES
RED LAY-IN	100	24X24	6*0	⊦ 3
CE MOUNT	100	8X8	6 ° 0	Ŀ5
RED LAY-IN	200	24X24	8.0	⊦ 3
CE MOUNT	200	IOXIO	8° Ø	нъ
BAR GRILLE	200	IOXIO	8° Ø	Ŀ5
RED LAY-IN	1000	24X24	SEE DWG	⊦3
RED LAY-IN	1000	24X24	SEE DWG	I-3
RED LAY-IN	1000	24X24	SEE DWG	⊦ 3

E. PLENUM.

EXHAUST FAN SCHEDULE

MARK	BASIS OF DESIGN	SERVICE	TYPE	CFM	RPM	HP/AMPS	S.P.	POWER	NOTES
EF-I	COOK 100 SQN-D	TOILETS	INLINE FAN	475	1200	1/6 HP	0.5"	120/1	⊦3
EF-2	COOK GC-520	CRAFT	CABINET FAN	330	1200	153 Watts	0.25"	120/1	12,4

NOTES: I. PROVIDE WITH DISCONNECT SWITCH. 2. PROVIDE WITH BACKDRAFT DAMPER.

3. CONTROL VIA TIMECLOCK. 4. CONTROL VIA WALL SWITCH BY E.C.

EL	ECTF	RIC UNIT	HEA	TER	S	SCH	HED	ULE
MARK	BASIS OF DESIGN	LOCATION	CFM	CAPACITY (Btuh)	E (A)	LECTRI (kW)	CAL POWER	NOTES
UHH	QMARK CWHII5IDSF	VESTIBULE	65	5,120	12.5	15	120/1	⊦ 3

NOTES:

1. PROVIDE WITH POWER DISCONNECT. 2. PROVIDE WITH INTEGRAL THERMOSTAT. 3. PROVIDE WITH SURFACE MOUNTING KIT

GENERAL NOTES

- I. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES
- 2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (M.C).
- 3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE M.C. SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
- 4. THE MECHANICAL PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCES SHALL BE BROUGHT TO THE ENGINEERS' ATTENTION.
- 5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
- 6. THE M.C. SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS, INTERLOCKS, CONTROL WIRING. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING, CONDUIT FROM THE DISCONNECT TO M.C. EQUIPMENT. THE M.C. SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTION TO HIS EQUIPMENT.
- INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AT ALL AIR HANDLING UNITS.
 INSTALL TURNING VANES IN ALL DUCTS AT ELBOWS. PROVIDE BALANCING AND SPLITTER DAMPERS WHERE SHOWN AND AS REQUIRED FOR SYSTEM BALANCING.
- 9. ALL THERMOSTATS, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE M.C. MOUNT THERMOSTATS 4'-0" ABOVE THE FLOOR, UNLESS OTHERWISE NOTED.
- 10. THE M.C. SHALL INSURE THAT ALL MECHANICAL EQUIPMENT INSTALLED UNDER HIS CONTRACT SHALL OPERATE FREE OF OBJECTIONABLE NOISE AND VIBRATION.
- II. THE M.C. SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
- 2. FLEXIBLE DUCT RUNOUTS SHALL BE A MAXIMUM OF 10'-0".
- 3. ALL FLEXIBLE DUCT RUNOUTS SHALL INCLUDE INSULATED DAMPERED BOOTS AT THE POINT OF CONNECTION WITH RECTANGULAR DUCT. PROVIDE ALL FLEXIBLE DUCTWORK WITH FOIL-BACKED, EXTERNALLY WRAPPED INSULATION FOR A MINIMUM OF R-8.
- ALL DUCTWORK SIZES SHOWN ARE ACTUAL SHEET METAL DIMENSIONS. EXTERNALLY WRAP ALL DUCT WITH 3" FOIL-BACKED INSULATION FOR A MINIMUM OF R-8.
 ALL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL INSTALLED IN ACCORDANCE WITH ALL CODES. THE
- M.C. SHALL COORDINATE GAS PIPE CONNECTION SIZE WITH EQUIPMENT.
- MECHANICAL CONTRACTOR SHALL WORK WITH TEST AND BALANCE CONTRACTOR TO REMEDY ANY DIFFERENCES TO INCLUDE FAN DRIVE CHANGES, INSTALLATION OF DAMPERS OR OTHER MINOR DUCT MODIFICATIONS TO PROVIDE AIRFLOW TO WITHIN +/- 10% OF THE DESIGN VALUES LISTED ON THESE PLANS.
 17. THE AIR HANDLING UNIT SHALL OPERATE AT ALL TIMES DURING OCCUPIED HOURS.
- 18. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF JOB.
- 19. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF DUCT SHOP DRAWINGS FOR APPROVAL.
- 20. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A BALANCE REPORT BY A CERTIFIED TEST AND BALANCE COMPANY.
- PROVIDE PERMIT LABEL ENGRAVED PLASTIC LAMINATE MECHANICALLY FASTENED TO OUTDOOR UNITS.
 LABEL CEILING GRID WHERE EQUIPMENT IS LOCATED ABOVE LAY-IN CEILING. WITH EQUIPMENT IDENTIFIER. ALSO LABEL ALL TEMPERATURE SENSORS AND THERMOSTATS WITH EQUIPMENT IDENTIFIER.

SYMBOL LEGEND

SHEET METAL DUCT

DESCRIPTION

FLEXIBLE DUCT SUPPLY DIFFUSER - LETTER & NUMBER INDICATES TYPE & CFM RETURN GRILLE - LETTER & NUMBER INDICATES TYPE & CFM EXHAUST GRILLE - LETTER & NUMBER INDICATES TYPE & CFM

EXHAUST FAN

THERMOSTAT - MOUNTED 48" ABOVE FINISHED FLOOR BALANCING DAMPER

ELBOW WITH TURNING VANES

- HUMIDISTAT MOUNTED 48" ABOVE FINISHED FLOOR
- CONDENSATE DRAIN PIPING TURNED DOWN
- PIPING TURNED UP

PIPING SIDE CONNECTION

OUTSIDE AIR SUMMARY

<u>REQUIRED:</u>

CRAFT = 442 SQFT * 0.18 CFM/SQFT + 12 PERSONS * 10.0 CFM/PERSON = 200 CFM MED/MP = 578 SQFT * 0.06 CFM/SQFT + 15 PERSONS * 5.0 CFM/PERSON = 110 CFM OFFICES = 2764 SQFT * 0.06 CFM/SQFT + 8 PERSONS * 5.0 CFM/PERSON = 206 CFM DINING = 1044 SQFT * 0.18 CFM/SQFT + 6 PERSONS * 7.5 CFM/PERSON = 638 CFM KITCHEN = 396 SQFT * 0.12 CFM/SQFT + 3 PERSONS * 7.5 CFM/PERSON = 70 CFM FITNESS = 1606 SQFT * 0.06 CFM/SQFT + 12 PERSONS * 20 CFM/PERSON = 336 CFM

TOTAL REQUIRED = 1560 CFM

PROVIDED:

AHU-1 = 325 CFM AHU-2 = 175 CFM AHU-3 = 50 CFM AHU-4 = 400 CFM AHU-5 = 325 CFM AHU-6 = 350 CFM

TOTAL PROVIDED = 1625 CFM

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E1.1 1/4" = 1'-0"

KEY NOTES

ROOM TO BE USED FOR GENERAL PATIENT CARE AREA, ALL INSTALLATION IN THIS ROOM SHALL COMPLY WITH NEC 513.17.

- 2 RECEPTACLE AND COMMUNICATION OUTLET FOR TV. FIELD VERIFY EXACT LOCATION AND HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
- 3 CONNECTION FOR ADA DOOR.
 E.C. SHALL PROVIDE WITH DISCONNECT SWITCH.
 E.C. SHALL INSTALL OPERATOR PUSH BUTTON AND WIRE PER MANUFACTURER INSTRUCTION.
- A RECEPTACLE LOCATED IN HOT BOX FOR HEAT TRACE TO PLUG-IN, SEE SITE PLAN FOR LOCATION.
- (5) ALTERNATE G-3:
- (5A) FIELD COORDINATE INSTALLATION INSIDE GENERATOR ENCLOSURE.
- 6 RECEPTACLE FOR AUTO FAUCET.
 FIELD VERIFY LOCATION WITH P,C. UNDER SINK FOR POWER SUPPLY TO PLUG-IN.
 CONNECT TO LOAD SIDE OF NEARBY GFCI RECEPTACLE AS INDICATED.

- (7) TRANSFORMER FOR AUTO URINAL AND TOILET.
 LOCATED IN ACCESSIBLE CEILING SPACE.
 FIELD VERIFY LOCATION WITH P.C.
 PROVIDE WITH DISCONNECT SWITCH.
 LOW VOLTAGE WIRING TO URINALS AND TOILETS BY P.C.

S ENLARGED POWER PLAN

A-33

<u>1 LIGHTING PLAN</u> E1.2 1/8" - 1' - 0"

KEY NOTES

DEXTERIOR LIGHT FIXTURE TO BE USED AS EXTERIOR EMERGENCY LIGHT. CONTROL BY EMERGENCY POWER BACKUP UNIT PER KEY NOTE #2.

- 2 EMERGENCY POWER BACKUP UNIT FOR EXTERIOR EMERGENCY LIGHT.
 CONNECT EMERGENCY CIRCUIT UNSWITCHED TO CKT# A-9.
 CONNECT NOMRAL SWITCHED CIRCUIT VIA PHOTOCELL.
 LOCATE ADJACENT TO PANEL BOARD.
- MOTION SERSORS AND POWER PACK FOR:
 LOBBY 100
 VESTIBULE 100A
 CORRIDOR 101
 PROVIDE LOW VOLTAGE WIRES BETWEEN DEVICES PER MANUFACTURER INSTRUCTION.
- 4 <u>BASE BID INSTALLATION:</u> INSTALLATION IS REQUIRED, <u>IF ALTERNATE G-I IS NOT</u> <u>ACCEPTED.</u> SEE KEY NOTE #5.
- 5 <u>ALTERNATE G-1</u>: INSTALLATION IS REQUIRED, IF ALTERNATE G-1 IS ACCEPTED,

NOTES

- TYPE 'A' FIXTURE LUMEN SETTING:
 4000 LUMEN: 103B,
 5000 LUMEN: 103A, 108, 109, 109A, 110, 112, 113
 6000 LUMEN: 102, 102A, 103, 104, 105, 105A
- TYPE 'D' FIXTURE LUMEN SETTING:
 1500 LUMEN: 100, 100A, 101, 106, 107
 2000 LUMEN: 102

AHU-6 26

SPACE ONLY 30

SPACE ONLY 32

SPACE ONLY 34

SPACE ONLY 36

SPACE ONLY 38

SPACE ONLY 40

SPACE ONLY 42

CONNECTED LOADS

PHASE B:

TOTAL

DEMAND

PHASE A: 76.4 KVA

73.3 KVA

<u> 149.8 KVA</u>

<u>561 AMP</u>

28

5.7

0.0

0.0

0.0

0.0

0.0

0,0

SURFACE MOUNTING

NEMA I ENCLOSURE

GROUND BAR

-- -- --

-- | -- | -- |

25 SPACE ONLY

27 SPACE ONLY

29 SPACE ONLY

31 SPACE ONLY

33 SPACE ONLY

35 SPACE ONLY

37 SPACE ONLY

TOTAL DEMAND

- 39 SURGE PROTECTION

DESCRIPTION CONNECTED DEMAND | DEMAND |

CONT. LOAD 6.07 125% 7.58

SPECIAL EQ. 0.00 100% 0.00 3.

25% OF LARGEST HVAC/MOTOR 1.59 4.

WATER HEATER 13.50 100% 13.50 NOTES

RECEPTACLE 14.40 100%/50% 12.20

MTRS/COOLS 39.30 100% 39.30 HEATS 59.10 80% 47.28

KVA FACTOR KVA

 EQUIPMENT
 5.60
 IOO\$
 5.60
 I. SQUARE D: I-LINE OR EQUAL

 KITCHEN EQUIP.
 II.80
 65%
 7.67
 2.

134.72

3 3 3 35

37 39

0.0 -- -- -- 27 28 2P 6 -- --

0.0 -- -- 2P 4I 42 -- -- -- 0.0

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 0.0
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 38
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 0.0
 - - - 37
 38
 -

 0.0
 - - 60
 39
 40
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MAIN LUGS ONLY

800 A MINIMUM BUS SIZE

22 K MINIMUM AIC RATING

____0.0

0,0

KEY NOTES

က **₹**0¥ () C.T. CAABINET AND METER BASE BY E.C. PER UTILITY () AUTOMATIC TRANSFER SWITCH. SPECS. • 800A, 240VAC, 2P 800A, 240VAC, 2PNEMA 3R ENCLOSURE. 2 2 SETS OF 3-#500 KCMIL IN 3 1/2"C. • MIN. AIC RATING OF 42KA. 3 SERVICE DISCONNECT
800A, 240VAC, 2P NEMA 3R FUSIBLE DISCONNECT.
UL LISTED FOR USE AS SERVICE EQUIPMENT.
PROVIDE WITH 800A FUSES. 42KA MIN. AIC RATING. FUSES SHALL BE CURRENT LIMITING FUSES THAT WILL LIMIT AVAILABLE FAULT AT LOAD SIDE TO BE LOWER THAN 22KA WHERE OPTIONAL STANDBY DIESEL GENERATOR.
 ISOKW/ISOKVA 120/240V 10, 3W
 800A MCB (80% STANDARD DUTY)
 24 HOUR SUB BASE TANK.
 WEATHERPROOF LEVEL 2 SOUND ATTENUATED ENCLOSING WEATHERPROOF LEVEL 2 SOUND ATTENUATED ENCLOSURE.
PROVIDE CONCRETE PAD. SEAT THE CONCRETE PAD OR BASE SLAB ON A PREPARED SOLID SUBSURFACE AND USE APPROPRIATE REINFORCING BAR OR EXPANDED WIRE MESH. PROVIDE 2,500 PSI CONCRETE REINFORCED WITH 8 GAUGE WIRE MESH OR NUMBER 6 REINFORCING BARS ON 12' CENTERS. BOLT TO CONCRETE PAD PER MANUFACTURER INSTRUCTION.
PROVIDE EMERGENCY SHUTDOWN SWITCH AT THE EXTERIOR OF ENCLOSURE. LABEL 'GENERATOR EMERGENCY SHUTDOWN'
PROVIDE REMOTE ANNUNCIATOR. LOCATE REMOTE ANNUNCIATOR INSIDE BUILDING PER ARCHITECT INSTRUCTION.
DO NOT BOND NEUTRAL TO GROUND BAR.
FIELD VERIFY LOCATION WITH ARCHITECT AND CIVIL ENGINEER PRIOR TO ROUGH-IN. LOAD SIDE TO BE LOWER THAN 22KA WHERE THE AVAILABLE LINE SIDE FAULT 13 42KA. PROVIDE PLAQUE: 'SERVICE DISCONNECT' SEE NOTE #I. GROUNDING ELECTRODE CONDUCTORS PER NEC 250. • 1-#2/0G CU IN 3/4°C TO BUILDING STEEL AND C.W. MΔIN I-#4G CU IN 1/2°C TO REINFORCE STEEL AT CONCRETE FOOTING.
I-#6G CU IN 1/2°C TO 2 DRIVEN RODS. ATLANTEC 23/69 ENGINEERS, PA (5) 2 SETS OF 3-#500 KCMIL, I-#I/OG IN 3 1/2"C 3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111 6 MANUAL TRANSFER SWITCH: • 800A, 120/240V 10, 3W, 42KA AIC RATING • NEMA 3R ENCLOSURE • QUICK CONNECT FOR PORTABLE GENERATOR. • ESL: 3080 OR EQUAL. CIVIL ENGINEER PRIOR TO ROUGH-IN. (12) GROUNDING ELECTRODE CONDUCTORS PER NEC 250.
 I-#2/0G CU TO GENERATOR CHASSIS.
 I-#6G CU IN I/2°C TO 2 DRIVEN RODS. 7 SEE PANEL SCHEDULE FOR DETAIL. SEE NOTE #I FOR PANEL BOARD. (3) GENERATOR CONTROL AND ANNUCIATOR CIRCUIT IN CONDUIT. COUN 8 BASE BID INSTALLATION. INSTALLATION IS REQUIRED, I<u>F ALTERNATE G-3 IS</u> NOT ACCEPTED. SEE KEY NOTE #9. 9 <u>ALTERNATE G-3</u> INSTALLATION IS REQUIRED, IF ALTERNATE G-3 IS ACCEPTED. FAULT CURRENTS:
 E.C. SHALL OBTAIN AVAILABLE FAULT CURRENT AT METER BASE FROM UTILITY AND PROVIDE INFORMATION TO ENGINEER TO CALCULATE AVAILABLE FAULT OF THE FOR SEDUCE AVAILABLE FAULT CURRENTS FOR SERVICE DISCONNECT AND PANEL BOARD. E.C. SHALL PROVIDE LABEL INDICATING FAULT CURRENTS ON ALL SERVICE DISCONNECTS AND PANEL BOARDS PER ENGINEER INSTRUCTION. Ш Ζ 4 \sim (n R PANEL B 120/240V, 1 PHASE, 3 WIRE KVA C G W CB CKT CKT CB W G C KVA DESCRIPTION DESCRIPTION CKT CKT <u>I</u>HP-I -- -- 8 2P 3 4 2P 12 -- --2.5 1.2
 2.5
 3/4
 10
 8
 45
 5
 6
 20
 12
 12
 12
 12
 GENERATOR
 BATT. CHARGER
 6
 4

 2.5
 - - 8
 2P
 7
 8
 20
 12
 12
 1/2
 GENERATOR
 BATT. CHARGER
 6
 4

 2.5
 - - 8
 2P
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 8
 20
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 12
 1/2
 GENERATOR
 BATT. CHARGER
 6
 4
 5 HP-2
 I.I
 I/2
 I2
 I2
 20
 9
 IO
 20
 I2
 I2
 I/2
 O.3
 ATTIC

 I.I
 -- -- I2
 2P
 II
 I2
 2O
 I2
 I2
 I/2
 O.3
 ATTIC
 9 HP-3 LIGHTS 10 1 11 REC 12 13 HP-4 3.2 3/4 10 8 50 13 14 20 12 12 1/2 0.5 EXTERIOR REC 14 ESS/ 15 <u>3.2</u> -- -- 8 2P 15 16 20 12 12 1/2 1.5 100A UH-1 16
 2.5
 3/4
 IO
 8
 45
 I7
 I8
 - - - - O.O

 2.5
 - - 8
 2P
 I9
 2O
 - - - O.O

 3.2
 3/4
 IO
 8
 5O
 2I
 22
 - - - O.O

 3.2
 3/4
 IO
 8
 5O
 2I
 22
 - - - O.O

 3.2
 - - 8
 2P
 23
 24
 - - - O.O

 3.2
 - - 8
 2P
 23
 24
 - - - O.O
 17 HP-5 SPACE ONLY 18

NOTES

Pł	NEL	A													12	20/240	7, 1 PHASE, 3 W	/IRE	
СКТ	[[DESCRIPTION	1	KVA	С	G	w	СВ	СКТ	СКТ	СВ	w	G	С	KVA		DESCRIPTION	СКТ	
1	LIGHTS	IC), 100A, 101	1.0	1/2	12	12	20	1	2	20	12	12	1/2	1.3	102, 102A	REC	2	
3	LIGHTS	100B,	106-109, 11-113	1.6	1/2	12	12	20	3	4	20	12	12	1/2	0.2	102	REC	4	
5	LIGHTS		102-104	1.6	1/2	12	12	20	5	6	20	12	12	1/2	0.5	103	REC	6	
7	LIGHTS		105, 105A	0.9	1/2	12	12	20	7	8	20	12	12	1/2	I.O	103	REFRIGERATOR	8	$\left - \left(2 \right) \right $
9	LIGHTS		EXTERIOR	0,4	1/2	12	12	20	9	10	20	12	12	1/2	1.0	103	ICE	0	<u> </u> (2)
1	ADA DOOR			0.5	1/2	12	12	20	1	12	20	12	12	1/2	0.2	103	REC	2	
13	ADA DOOR			0.5	1/2	12	12	20	13	4	20	12	12	1/2	0.2	103	REC	4	
15	REC	IC	<u>)0, 100A, 110</u>	0.9	1/2	12	12	20	15	16	40	8	0	3/4	4.0	_103	RANGE	6	
17	REC	101,	104, 106, 107	1.4	1/2	12	12	20	17	18	2P	8			4.0		RPOVIDE #8 NEUTRAL	. 18	$\vdash \bigcirc$
- 19	EWC	-	101	0.5	1/2	12	12	20	19	20	15	12	12	1/2	0.3	103	HOOD	20	
21	REC		112, 113	1.1	1/2	12	12	20	21	22	20	12	12	1/2	1.5	103	STEAM TABLE	22	+2
23	REC		1008, 111	1.1	1/2	12	12	20	23	24	20	12	12	1/2	0.7	103A, 103B	REC	24	
25	REC		109	0.9	1/2	12	12	20	25	26	20	12	12	1/2	1.1	105	REC	26	1
27	REC		1099, 109A	0.9	1/2	12	12	20	27	28	20	12	12	1/2	0.9	105, 105A	REC	28	1
29	REC		108	0.9	1/2	12	12	20	29	30	15	12	12	1/2	0.6	104	, P-I METER	2 30	1
31	REC		108	0.9	1/2	12	12	20	31	32					0.0		SPACE ONLY	32	1
33	REC		10	0,0	1/2	12	12	20	33	34					0.0		SPACE ONLY	34	1
35	HEAT TAPE		HOT BOX	0.3	1/2	12	12	20	35	36					0.0		SPACE ONLY	1 36	1
37	SPACE ONL	_Y		0.0					37	38					0.0		SPACE ONLY	1 38	4
39	SPACE ONL	<u>_</u> Y		0.0					39	40					0.0		SPACE ONLY	<u> 40</u>	4
41	SPACE ONL	_Y		0,0					4	42					0.0		SPACE ONLY	42	4
					1	200													
DESC									DUJ 3 1										1
		576	1259	720	4	22 K													1
		12.70	1200	1.20	1	22 N													1
		0.20	1008/308	0.20	1														1
	<u>5,000L3</u> TS	0.20	100%	0.20	1														1
		0.00	100%	0.00	NOTE	<u>ح</u>													1
		200	100%	200					FOU									KVA	1
KITC		1.00	65%	767	2.00					∿ ∟								KVA	1
		0.00	100%	0.00	2													, NVA	1
25%				0.00	<u>a</u>													7 KVA	1
TOT				2855	5														1

21 HP-6 23 25 EF-I 27 SPACE ONLY 29 SPACE ONLY

DESCRIPTION	CONNECTED	DEMAND	DEMAND	200 A MINIMUM BUS SIZE SURFA	ACE MOUNTING		
	KVA	FACTOR	KVA	MAIN LUGS ONLY NEMA	I ENCLOSURE		
CONT. LOAD	0.30	125%	0.38	22 K MINIMUM AIC RATING GROU	ND BAR		
RECEPTACLE	1.44	100%/50%	1.44				
MTRS/COOLS	30.46	100%	30.46				
HEATS	1.50	100%	1.50				
WATER HEATER	0.00	100%	0.00	NOTES		CONNECTED	LOADS
EQUIPMENT	3.60	100%	3.60	I. SQUARE DI NQ OR EQUAL		PHASE A:	18.7 K
KITCHEN EQUIP.	0.00	65%	0.00	2.		PHASE B:	18.6 K
SPECIAL EQ.	0.00	100%	0.00	3.			
25% OF LARGES	T HVAC/MO	FOR	1,59	4.		TOTAL	37.3 K
TOTAL DEMAND			38.97	5.		DEMAND	162 AI

<u>0.6</u> 1/2 12 15 25 26 -- -- -- 0.0

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KEY NOTES

1) PROVIDE INTERNAL SURGE PROTECTION MODULE. L-L, L-N, L-G PROTECTION WITH MIN. 200KA. WITH SURGE COUNTER.

60A/2P BREAKER IS NOT REQUIRED IF A DISCONNECT IS FURNISHED WITH THE MODULE.

2 PROVIDE WITH GFCI BREAKER. DO NOT SHARE NEUTRAL.

(3) PROVIDE WITH GROUND FAULT PROTECTED BREAKER FOR EQUIPMENT PER NEC 427.22. PROVIDE WITH BREAKER LOCK.

(4) <u>ALTERNATE G-3</u> INSTALLATION IS REQUIRED IF ALTERNATE G-3 IS ACCEPTED.

Ń ()Ζ R ST, \Box $\vdash \Box$ ШМ Ζ ОШ RAN 03 O 25 3 G CARO SEAL 027479 TH CARC ATLANTEC ENGINEERS PA No. C-961 GENERAL NOTE: Prior to construction start. Contractor shall verify & be responsible for all Dimensions. Project No. Date 22042 FEB 2 2024 Drawn By Sheet No. SP E2.1 Checked By SP Sheet Title POWER RISER DIAGRAM PANEL SCHEDULES

SPACE ONLY 20

SPACE ONLY 22

SPACE ONLY 24

SPACE ONLY 26

SPACE ONLY 28

SPACE ONLY 30

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	LIGHT FIXTURE SCHEDULE									
TYPE	DESCRIPTION	CATALOG	ELECTRICAL DATA	NOTES						
А	2x4 LED FLAT PANEL FIXTURE RECESSED MOUNTED 4000/5000/6000 LUMEN	LITHONIA: CPX-2X4-ALO8-SWW7-M2	4000/5000/6000 LUMEN LED, 3500K/4000K/5000K 0-10V ELECTRONIC DIMMING DRIVER 29/37/50 W - 33/42/55 VA, 120-277V	SET COLOR TO 3500K SEE NOTE ON PLAN FOR LUMEN SETTING.						
В	2x2 LED FLAT PANEL FIXTURE RECESSED MOUNTED 2400/3300/4000 LUMEN	LITHONIA: CPX-2X2-AL07-SWW7-M4	2400/3300/4000 LUMEN LED, 3500K/4000K/5000K 0-10V ELECTRONIC DIMMING DRIVER 20/28/34 W - 23/32/38 VA, 120-277V	SET COLOR TO 3500K SET LUMEN TO 2400 LUMEN						
D	6° LED CAN LIGHT FIXTURE RECESSED MOUNTED 1000/1500/2000 LUMEN	LITHONIA: LDN6-AL02-SWWI-LO6-AR-LD-MVOLT -UGZ	1000/1500/2000 LUMEN LED, 3500K/4000K/5000K 0-10V ELECTRONIC DIMMING DRIVER 12/19/25 W - 14/22/29 VA, 120-277V	SET COLOR TO 3500K SEE NOTE ON PLAN FOR LUMEN SETTING.						
L	6 FT. LINEAR PENDANT LIGHT FIXTURE PENDANT MOUNTED DIRECT: 2400 LUMEN INDIRECT: 1650 LUMEN	ALW: HBMCS-S6-HI/80/3500-0/I0/S-EXT -MED/80/3500-0/I0/S-EXT-**-UNV	4050 LUMEN LED (TOTAL), 3500K 0-10V ELECTRONIC DIMMING DRIVER 67.5 W - 75 VA, 120-277V	** FINISH COLOR PER ARCHITECT INSTRUCTION HANG BOTTOM 10 FT. A.F.F.						
R	13° LED ROUND SURFACE LIGHT FIXTURE SURFACE MOUNTED, WHITE FINISH. 1800 LUMEN LISTED FOR WET LOCATION	JUNO: JSF-13IN-18LM-SWW5-90CRI-120-FRPC -WH	1800 LUMEN LED, 2700K/2000K/3500K/4000K/5000K ELECTRONIC PHASE DIMMING DRIVER 20 WATTS - 23 VA, 120-277V	SET COLOR TO 3500K						
R2	ALTERNATE G-1 II" LED ROUND SURFACE LIGHT FIXTURE SURFACE MOUNTED, WHITE FINISH. 1300 LUMEN LISTED FOR WET LOCATION	JUNO: JSF-111N-14LM-SWW5-90CRI-120-FRPC -WH	1300 LUMEN LED, 2700K/3000K/3500K/4000K/5000K ELECTRONIC PHASE DIMMING DRIVER 14.4 WATTS - 16 VA, 120-277V	SET COLOR TO 3500K						
S	4 FT. LED STRIP FIXTURE SURFACE MOUNTED 4000 LUMEN	LITHONIA : CSS-L48-4000LM-MVOLT-40K-80CRI	4000 LUMEN LED, 4000K 0-10V ELECTRONIC DIMMING DRIVER 35 W - 38 VA, 120-277V							
W	EXTERIOR WALL MOUNTED CUT-OFF 1800 LUMEN LISTED FOR WET LOCATION AND 0°F	LITHONIA: WDGE-I-P2-35K-80CRI-VW-MVOLT-**	1800 LUMEN LED, 3500K ELECTRONIC DRIVER 15 WATTS - 17 VA, 120-277V	** FINISH COLOR PER ARCHITECT INSTRUCTION. SEE ARCHITECT ELEVATION.						
W2	BASE BID: IF AN ALTERNATE G-I IS NOT ACCEPTED. EXTERIOR CYLINDER WALL MOUNTED WITH UP (1200 LUMEN) AND DOWN (1200 LUMEN) LIGHT. LISTED FOR WET LOCATION AND O°F	OCL LIGHTING: VA2-010A-08-WF-**-LED2-35K-UNV-DMI	2400 LUMEN LED, 3500K ELECTRONIC DRIVER 30 WATTS - 33 VA, 120-277V	** FINISH COLOR PER ARCHITECT INSTRUCTION. MOUNT BOTTOM ABOVE 6 FT. A.F.F. AND PER ARCHITECT INSTRUCTION.						
EG	EMERGENCY LIGHT	LITHONIA : EU2L-MI2	(2) 0.75W LED HEADS, 0.33 WATTS - 6 VA, 120/277V							
EGX	EMERGENCY WITH EXIT LIGHT I SIDE RED LETTER	LITHONIA: ECRG-RD-M6	(2) 0.75W LED HEADS, LED FOR PANEL I WATTS - II VA, I20/277V							

NOTES:

- I. SEE ARCHITECTURAL PLAN FOR MOUNTING LOCATION AND HEIGHT. FIELD COORDINATE MOUNTING HEIGHT WITH ARCHITECT IF NOT SHOWN ON ARCHITECTURAL PLAN.
- 4. EQUAL PRODUCTS ARE ACCEPTABLE UPON ARCHITECT AND ENGINEER APPROVAL. THE ACCEPTABLE MANUFACTURERS ARE:
 ALL FIXTURES : ACUITY BRAND GROUP, HUBBELL LIGHTING GROUP, COOPER LIGHTING GROUP, ELITE LIGHTING GROUP.
- 2. E.C. SHALL SUBMIT CATALOG TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING, FINISH COLOR/TRIM SUBJECT TO BE CHANGED PER ADCUITECT ARCHITECT.
- 3. FOR BID PURPOSED LED COLOR SHALL BE 3500K. FIELD VERIFY LED COLOR WITH ARCHITECT PRIOR TO ORDERING.

		SYMBOL LE	EGEN	D
<u>SYMBOL</u>	DESCRIPTION	<u>REMARKS</u>	<u>SYMBOL</u>	DESCRIPTION
•	2 X 4 LAY-IN FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.		CEILING PANEL CABINET FAN. FURNISHED AND INSTALLED BY M.C., WIRED E
•	2 X 2 LAY-IN FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.	ТМ	TIMECLOCK FOR MECHANICAL EQUIPMENT C FURNISHED BY M.C. AND INSTALLED BY E.C. 1
0	LINEAR PENDANT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.	L	JUNCTION BOX SIZED PER N.E.C.
	LINEAR STRIP FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.	C	DISCONNECT SWITCH SEE PLANS FOR SIZE /
\oplus	RECESSED CAN LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.	\frown	NEW CONCEALED WIRING
\odot	PENDANT/SURFACE MOUNT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.	<··· \	LOW VOLTAGE WIRING FOR OCCUPANCY SW
$\underline{\Phi}$	WALL MOUNT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.		UNSWITCHED LIGHTING CONDUCTOR
e	EXTERIOR WALL LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.		HOME RUN TO PANEL BOARD
**	EMERGENCY WITH EXIT LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.		120/240V 10, 3W PANEL BOARD - SEE PANEL
₽₽	BATTERY BACKUP EMERGENCY LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.	M	UTILITY METER BASE
\	LIGHT FIXTURE ON UNSWITCHED CIRCUIT FOR NIGHT LIGHT. THE SHADE DESIGNATED THE NIGHT LIGHT.	SEE FIXTURE SCHED.	▼	COMMUNICATION OUTLET - MOUNT 16" A.F.F. STUB 3/4" CONDUIT TO ACCESSIBLE CEILING
PC	PHOTOCELL, 105-305VAC, 50/60HZ, 1800VA BALLAST LOAD 1000W TUNGSTEN LOAD, 8A LED LOAD (UP TO 2220W ©277V)	TORK: ZSSI24		COMMUNICATION BACKBOARD: 3/4" THICK F
Ð	EMERGENCY POWER UNIT (INVERTER) FOR EMERGENCY LIGHT FIXTURES. 120V INPUT, 120V OUTPUT, 220W WITH 90 MIN. BACKUP TIME.	EELP: PS-220-HP	PB	ADA PUSH BUTTON.
S	SINGLE POLE TOGGLE SWITCH. MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE.	HUBBELL 1221-** WITH SI COVER PLATE	A.F.C.	MOUNT 42" A.F.F. UNLESS NOTED OTHERWIS ABOVE FINISHED CEILING
S3	THREE WAY TOGGLE SWITCH. MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE.	HUBBELL 1223-** WITH SI COVER PLATE	A.F.F.	ABOVE FINISHED FLOOR - NOTE ALL MOUNT
S_{EQ}	SINGLE POLE TOGGLE SWITCH FOR EQUIPMENT DISCONNECT MOUNT ADJACENT TO EQUIPMENT. FIELD VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.	HUBBELL 1221-** WITH STEEL COVER PLATE	B,F,F.	GIVEN ARE TO THE BOTTOM OF THE OUTLE BELOW FINISHED FLOOR
SMI	WALL MOUNTED OCCUPANCY SENSOR SWITCH, PASSIVE INFRARED MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE. 800W/120VAC OR 1200W/277VAC	SENSORSWITCH WSX-** S26 COVER PLATE	B.F.G.	BELOW FINISHED GRADE
SMD	WALL MOUNTED 0-10V DIMMING SWITCH WITH OCCUPANCY SENSOR. DUAL TECHNOLOGIES 1000W/120VAC OR 1200W/277VAC MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE SMITCHED WIDE AND CLOV CONTROL WIDE TO FIXTURE AS DECUMPED	SENSORSWITCH WSX-PDT-D-** S26 COVER PLATE		
M2	CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGIES.	SENSORSWITCH CMR-PDT-10		
M3	CEILING MOUNTED OCCUPANCY SENSOR, PASSIVE INFRARED LOW VOLTAGE, PROVIDE LOW VOLTAGE WIRING TO POWER PACK AS REQUIRED. 28 FT. RADIUS	SENSORSWITCH CM-10		
M4	CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGIES. LOW VOLTAGE. PROVIDE LOW VOLTAGE WIRING TO POWER PACK AS REQUIRED. 28 FT. RADIUS	SENSORSWITCH CM-PDT-10		
MP	POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSOR. 120/277VAC, 20A I POLE CONTACTOR.	SENSORSWITCH PP-20		
SD	DIMMING SWITCH WITH PRESET TO MATCH TYPE 'A', 'D' AND 'L' FIXTURES. O-IOV DIMMING. MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE SWITCHED WIRE AND O-IOV CONTROL WIRE TO FIXTURE AS REQUIRED.	SYNERGY ISD-BC-120/277-** NPJ26 COVER PLATE		
φ	SPECIFICATION GRADE DUPLEX TAMPER RESISTANT RECEPTACLE. MOUNT 16° A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL HBL5362-**-TR WITH S8 COVER PLATE		
	SPECIFICATION GRADE TAMPER RESISTANT GFCI RECEPTACLE MOUNT 16° A.F.F. UNLESS NOTED OTHERWISE.	HUBBELL GFTRST20-** WITH S26 COVER PLATE		
^{WP} ₽	SPECIFICATION GRADE TAMPER RESISTANT, WEATHER RESISTANT AND GFCI DUPLEX RECEPTACLE WITH IN-USE WEATHER PROOF COVER. MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL GFTWRST20-** WITH WP26M COVER PLATE		
^{≡WC} ¶	SPECIFICATION GRADE DUPLEX RECEPTACLE FOR WATER COOLER. MOUNT 24" A.F.F. FOR CONCEALMENT OF CORD. FED FROM GFCI CIRCUIT BREAKER.	HUBBELL HBL5362 WITH S8 COVER PLATE		
Ŧ	SPECIFICATION GRADE DUPLEX TAMPER RESISTANT RECEPTACLE. MOUNT 16° A.F.F. UNLESS OTHERWISE NOTED. <u>FED FROM GFCI CIRCUIT BREAKER OR CONNECTED TO LOAD SIDE OF</u> <u>OTHER GFCI RECEPTACLE</u>	HUBBELL HBL5362-**-TR WITH S8 COVER PLATE		
wG P	SPECIFICATION GRADE WEATHER RESISTANT DUPLEX RECEPTACLE. WITH IN-USE WEATHER PROOF COVER FOR HOT BOX. PER NEC 427.22. SEE NOTE ON PLAN FOR INSTALLATION. FED FROM GROUND FAULT PROTECTION FOR EQUIPMENT BREAKER.	HUBBELL HBL5362-**-WR WITH WP26M COVER PLATE		
₽	SPECIFICATION GRADE QUAD TAMPER RESISTANT RECEPTACLE MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL (2) HBL5362-**-TR WITH S82 COVER PLATE		
	SPECIFICATION GRADE TAMPER RESISTANT GFCI RECEPTACLE. MOUNT 4" ABOVE COUNTER/BACKSPLASH.	HUBBELL GFTRST20-** WITH S26 COVER PLATE		
`××'¶	POWER RECEPTACLE WITH GROUND, 'XX' DESIGNATES TYPE OR RATING. FIELD VERIFY NUMEBR OF POLE AND NEUTRAL MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL TO MATCH EQUIPMENT STAINLESS COVER PLATE		

NOTE: MANUFACTURERS AND PART NUMBERS SHOWN IN LEGEND ARE FOR GUIDELINE, EQUIVALENT PRODUCTS ARE ACCEPTABLE,

SCRIPTION	<u>REMARKS</u>
M.C., WIRED BY E.C.	SEE MECH. PLAN.
EQUIPMENT OPERATION. LLED BY E.C. PER M.C. INSTRUCTION.	SEE MECH. PLAN.
2.	
NS FOR SIZE AND TYPE	SQUARE D HEAVY DUTY
	PER N.E.C.
CUPANCY SWITCH AND POWER PACK.	PER N.E.C.
CTOR	PER N.E.C.
E CIRCUITS	PER N.E.C.
- SEE PANEL SCHEDULES	SQUARE D NQ/I-LINE
	SEE POWER RISER
UNT 16" A.F.F. UNLESS OTHERWISE NOTED SIBLE CEILING OR ATTIC SPACE. IRING BY OTHERS.	SINGLE GANG BOX HUBBELL SI3 COVER PLATE
3/4" THICK FIREPROOFED PLYBOARD MOUNTED TO DNNECT 1-#6 AWG GROUND IN 1/2" C. TO PANEL) WALL
ED OTHERWISE.	FURNISHED BY G.C. INSTALLED BY E.C.

OTE ALL MOUNTING DIMENSIONS OF THE OUTLET BOX

- **GENERAL NOTES**
- I. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE. 3. USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN EACH CONDUIT.
- 4. ALL BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR.
- 5. ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND 2020 NATIONAL ELECTRICAL CODE (NFPA 70).
- 6. EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 7. THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT, PRIOR TO INSTALLATION FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK, AND MILLWORK TO BE FURNISHED.
- 8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS. <u>SEE DETAILS FOR CONNECTION</u> TO EQUIPMENT PROVIDED BY MECHANICAL AND PLUMBING CONTRACTORS
- 9. PENETRATION: • WHERE ELECTRICAL EQUIPMENT PENETRATES RATED WALLS AND CEILINGS, EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED PER APPROVED UL METHODS.
 WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED SEALING METHODS.
- IO. ALL PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID BY THE ELECTRICAL CONTRACTOR. II. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
- 12. THE CONTRACTOR SHALL PROVIDE COMPLETE UPDATED TYPEWRITTEN PANEL SCHEDULES FOR ALL PANELBOARDS.
- 13. AS BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE PROJECT.
- 14. THE CONTRACTOR SHALL VERIFY THE CEILING TYPES WITH THE GENERAL CONTRACTOR PRIOR TO THE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR ALL FIXTURES. ANY DIFFERENCES WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- 15. ALL WIRE SIZES INDICATED ON THE PANEL SCHEDULES ARE BASED ON 75 DEGREE COPPER THHN/THWN WIRE, ALL WIRE TERMINALS AND EQUIPMENT SHALL BE LISTED AND APPROVED FOR 75°C. <u>ONLY THWN-2</u> WIRE SHALL BE INSTALLED IN WET AND EXTERIOR LOCATION.
- 16. MINIMUM CONDUIT SIZE SHALL BE 1/2" AND MINIMUM WIRE SIZE SHALL BE #12 AWG.
- 17. ARMORED CABLE (TYPE AC) AND METAL-CLAD CABLE (TYPE MC) ARE ACCEPTABLE WIRING METHODS SUBJECTED TO THE FOLLOWING RESTRICTIONS: SEE NEC 320 AND 330 FOR RESTRICTION.
 PENETRATIONS OF RATED WALLS SHALL BE IN ACCORDANCE WITH APPROVED UL PENETRATION
- PENCIFICATIONS OF KATED WALLS SHALL DE IN ACCORDANCE MINT ALL ROTED OF LETENSING. METHODS.
 CABLE SHALL NOT BE USED FOR HOME RUN TO PANEL BOARD.
 CABLE SHALL ONLY BE INSTALLED IN CONCEALED SPACE AND FURRED AREAS. MAX. LENGTH OF EACH SECTION IN ACCESSIBLE CONCEALED CEILING SPACES SHALL NOT EXCEED 10 FT.
 WHERE REQUIRED BY NEC 517.13, CABLE SHALL BE LISTED FOR THE USE.
- 18. THE MAXIMUM NUMBER OF HOMERUNS IN A CONDUIT SHALL NOT EXCEED THREE (3). FEEDING CIRCUITS WITH SHARED NEUTRAL SHALL BE SWITCHED TOGETHER.
- 19. WHERE OUTLETS ARE SHOWN BACK TO BACK ON RATED WALLS, STAGGER OUTLETS SO THAT THEY
- ARE SEPARATED BY A MINIMUM OF 24". 20. ALL DISCONNECTS SHALL HAVE SEPARATE NEUTRAL AND GROUND BARS.
- 21. ALL PANELS SHALL BE SINGLE PHASE, THREE WIRE UNLESS OTHERWISE NOTED.
- 22. BOXES AND CONDUITS SHALL NOT BE INSTALLED RECESSED IN A 3-HOUR OR HIGHER RATED WALL. WHEN OUTLETS ARE INDICATED ON THESE WALLS, FIELD COORDINATE CONDUIT AND BOX INSTALLATION. 23. FOR ALL RECEPTACLES LOCATED ABOVE COUNTER TOP, MOUNTING HEIGHT SHALL COMPLY WITH ANSI AII7.I, SECTION 308. E.C. SHALL FIELD VERIFY CASEWORK DETAIL WITH ARCHITECT PRIOR TO ROUGH-IN.
- 24. ELECTRICAL IDENTIFICATION ELECTRICAL IDENTIFICATION
 FURNISH AND INSTALL ENGRAVED LAMINATED PHENOLIC NAMEPLATES FOR ALL SAFETY SWITCHES, PANEL BOARDS, TRANSFORMERS, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER
- ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT FOR IDENTIFICATION. • FURNISH AND INSTALL SELF-ADHESIVE PLASTIC TAPE FOR ALL RECEPTACLE AND WALL SWITCH COVER PLATES INDICATING CIRCUIT NUMBERS.
- 25. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE INSTALLATION OF THE NEW UNDERGROUND ELECTRICAL SERVICE WITH THE LOCAL UTILITY. THE OWNER SHALL PAY ALL CHARGES FOR THE INSTALLATION OF THE NEW UNDERGROUND UTILITY SERVICE.
- 26. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE LOCATION OF COMMUNICATION SERVICE CONDUIT STUB OUTS WITH THE LOCAL COMMUNICATION SERVICE COMPANY PRIOR TO INSTALLING ANY CONDUITS.
- 27. E.C. SHALL LOCATE EXISTING UNDER GROUND UTILITY PRIOR TO EXCAVATING.

2018 NORTH CAROLINA **ENERGY CODE**

ELECTRICAL SYSTEM AND EQUIPMENT

LAMP TYPE REQUIRED: NUMBER OF LAMPS: BALLAST TYPE USED: NUMBER OF BALLASTS TOTAL WATTAGE PER FIXTURE:

METHOD OF COMPLIANCE: PRESCRIPTIVE						
LIGHTING SCHEDULE:						
FLUORESCENT T8/T5	LED		CFL	INCAN		
N/A	SEE		N/A	N/A		
N/A	FIXTURE		N/A	N/A		
N/A	SCHEDULE		N/A	N/A		
N/A			N/A	N/A		
	SPECIFIED		ALLOWED BY CODE			
INTERIOR WATTAGE						

LOBBY		549
CORRIDOR		488
OFFICE		522
TOILETS		490
ELEC/MECH		76
STORAGE		384
EXAM ROOM		830
MULTI PURPOSE		554
EXCERCISE		1080
FOOD PREP		484
DINING	V	683
TOTAL	4786	5525 **
EXTERIOR WATTAGE	ZONE 3	
BLDG, ALLOWANCE	351	750

NOTES:

- ** PER SECTION C406.3, THE WHOLE AREA ALLOWED BY CODE IS REQUIRED TO BE 10% LOWER THAN THOSE CALCULATED PER SECTION C405.4.2.
 VALUE CALCULATE PER SECTION C405.4.2: 6139 WATTS
 VALUE PER SECTION C406.3: 5525 WATTS
- 2. ALL EXTERIOR LIGHTS;
 CONTROLLED BY PHOTOCELL THAT WILL NOT INTENDED TO BE ON FOR 24 HOUR OPERATION.

DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 - ENERGY.

SIGNED: NAME: TITLE: SUJIN PRAMOJANEY, P.E.

