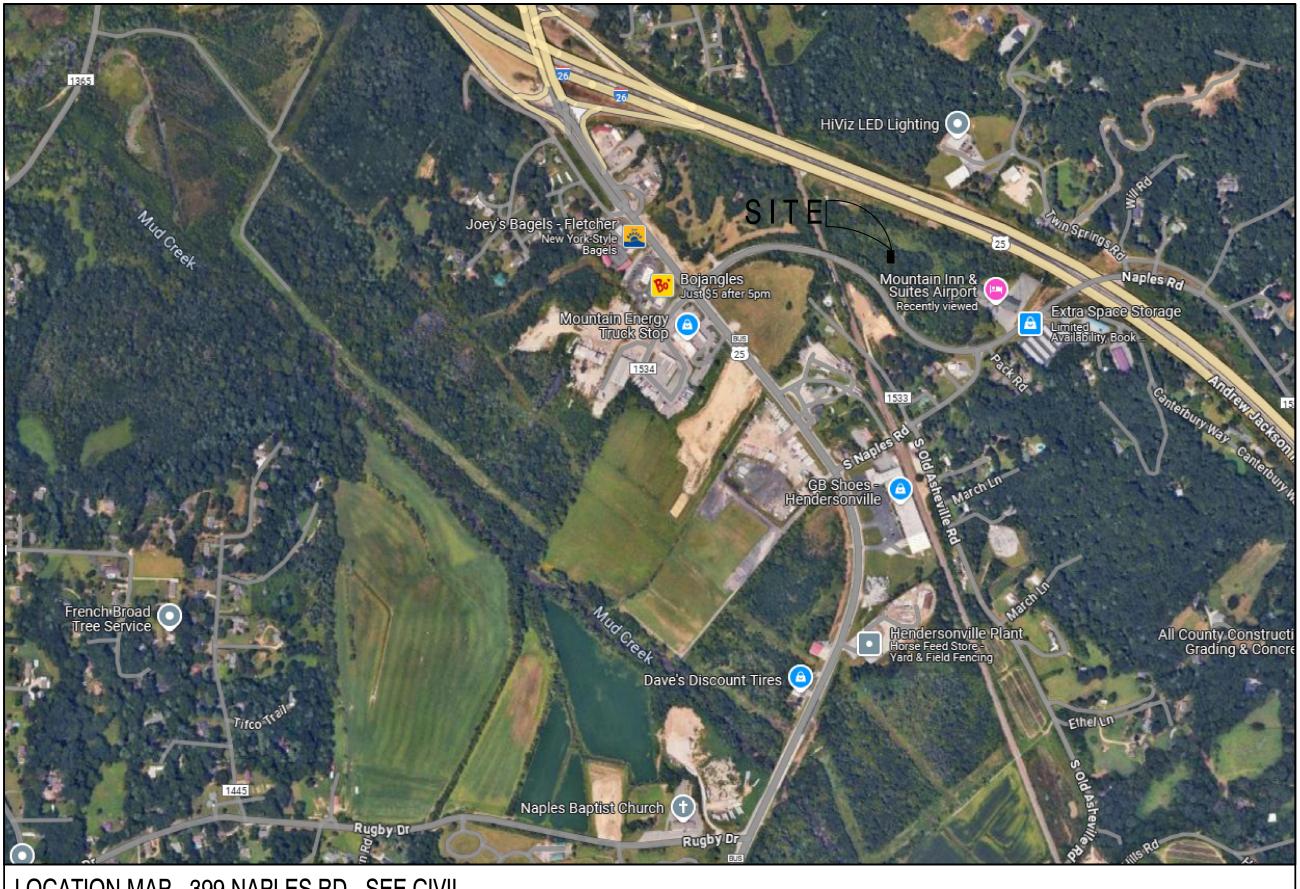
## GENERAL ABBREVIATIONS

	ABOVE FINISH FLOOR
ACOUS.	ACOUSTICAL
	ADJUSTABLE
	ALUMINUM
	AND ANGLE
	ARCHITECTURAL
@	AT
BD.	BOARD
	BUILDING
BLK.	
	BLOCKING
BM.	
	BOTTOM
	CABINET CEMENT
CLM. CL.	CENTERLINE
	CERAMIC
	CEILING
CLKG.	CAULKING
CLR.	CLEAR
	COLUMN
	CONCRETE
	CONCRETE MASONRY UNIT
DET.	CONTINUOUS DETAIL
	DIAMETER
DIM.	
DR.	DOOR
DBL.	DOUBLE
DN.	DOWN
DS.	DOWNSPOUT
DWG.	
(E) E D	EXISTING
FΔ	ELECTRICAL PANELBOARD EACH
ELEV.	ELEVATION
ELEC.	ELECTRICAL
	EMERGENCY
EQ.	EQUAL
E.W.C.	ELECTRIC WATER COOLER
F.E.	FIRE EXTINGUISHER
	FACE OF
F.O.F.	FACE OF FINISH
г.U.S. F/F	FACE OF STUDS FINISH TO FINISH
	FIRE RETARDANT
	FULL SIZE
FIN.	FINISH
FL.	
	FLUORESCENT
FT.	FOOT, FEET
F.V.	FIELD VERIFY
	GRAB BAR
	GENERAL CONTRACTOR GAUGE
	GAUGE GLASS FIBER REINFORCED
	CEMENT
GL.	
	GYPSUM
	HOLLOW CORE
	HOLLOW METAL HANDICAPPED
	HARDWOOD
HORIZ.	HORIZONTAL
	HEIGHT
HR.	HOUR
H.T.	HANGER-TIGHT UNIT
HVAC	HEATING, VENTILATION,
	AIR CONDITIONING
I.D.	INSIDE DIAMETER
insul. it	INSULATION
ji. LAM	JOINT LAMINATE
LT	LIGHT
MIR.	MIRROR
MAX.	MAXIMUM
MECH.	MECHANICAL
	MANUFACTURER
	MINIMUM MISCELLANEOUS
MTI	MISCELLANEOUS METAL
N.	NORTH
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT IN CONTRACT NOT TO SCALE
(N)	NEW
NO.	NUMBER
NOM.	NOMINAL
	OPENING OPPOSITE
P.LAM	PLASTIC LAMINATE
PL.	PLATE
	PLASTER
PLYWD	. PLYWOOD
PR.	
	POINT
# R.	POUND OR NUMBER
к. RAD.	RISER RADIUS
	REQUIRED
	RESILIENT
RM.	ROOM
R.O.	ROUGH OPENING
S.	SOUTH
	500111
S.C.	SOLID CORE
S.S.	SOLID CORE STAINLESS STEEL
S.S. SCHED.	SOLID CORE STAINLESS STEEL SCHEDULE
S.S. SCHED. SHT.	SOLID CORE STAINLESS STEEL SCHEDULE SHEET
S.S. SCHED. SHT. SIM.	SOLID CORE STAINLESS STEEL SCHEDULE SHEET SIMILAR
S.S. SCHED. SHT. SIM.	SOLID CORE STAINLESS STEEL SCHEDULE SHEET

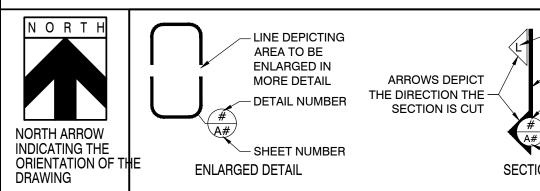
SQ. STD. STL. STOR. SUSP. T.C. T.O. TEL.	SQUARE STANDARD STEEL STORAGE SUSPENDED TIME CLOCK TOP OF TELEPHONE
THK.	THICK
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W.	WEST
W/	WITH
W/C	WATER CLOSET
W/O	WITHOUT
W/R	WATER RESISTANT
WD.	WOOD
WT.	WEIGHT





LOCATION MAP - 399 NAPLES RD.- SEE CIVIL

## SYMBOLS AND GRAPHICS



## SECTION DEPICTED LINE WHICH SECTION IS CUT THROUGH - DETAIL NUMBER SECTION CUT INDICATION

# CODE INFORMATION:

COUNTY JURISDICTION: HENDERSON STATE JURISDICTION: NORTH CAROLINA APPLICABLE CODES: N.C.B.C. 2018 BUILDING, PLUMBING, MECHANICAL, ENERGY CONSERVATION, FIRE PREVENTION CODES

# PROFESSIONAL CONSULTANTS

WILDE ENGINEERING - NC FIRM LIC. NO MECHANICAL., ELECTRICAL & PLUMBIN 15822 KELLY PARK CIRCLE HUNTERSVILLE, NC

JDH STRUCTURAL ENGINEERS PLLC -NC FIRM LIC. NO. P-1593 (STRUCTURA) 19545 GREENTREE WAY, SUITE B CORNELIUS, NC 28031

WGLA ENGINEERING PLLC -NC FIRM LIC. NO. P-1342 (CIVIL) 724 5TH AVE. WEST HENDERSONVILLE, NC 28729

## **BUILDING CODE ANALYSIS INFORMAT**

ENCLOSED AREA: 3,276 SF. GROSS COVERED AREA: 380 SF. TOTAL

TOTAL AREA UNDER ROOF: 3,656 SF. (TABLE 506.2 GRC /24,000 S1 SPRINKLED MAX AREA ALLOWABLE) BUILDING HEIGHT: ±25'-0" (TABLE 504.3 A-3 40' NS/60' S ALLOWABLE)

NUMBER OF STORIES: 1 (TABLE 504.4 A-3 1 NS/2 SPRIN ALLOWABLE STORIES)

CONSTRUCTION TYPE: VB, S1 SPRINKLED ONE STORY REQ. TABLE 601)

OCCUPANCY GROUP: MIXED OFFICE AREA (B) & A3 A NOTE 1)

FIRE RATINGS FOR BUILDING ELEMENTS REQUIRED- 0 FIRE SEPARATION RATINGS FOR EXTERIOR WALLS REC (TABLE 602)

NOTE 1: FOR THE PURPOSES OF THIS BUILDING CODE ANALYS USES (B) ARE CONSIDERED AS A-3 BECAUSE THE OFFI ANCILLARY USES TO THE ASSEMBLY A-3 USE AND THE REQUIREMENTS FOR A-3 USES ARE MORE RESTRICTIV

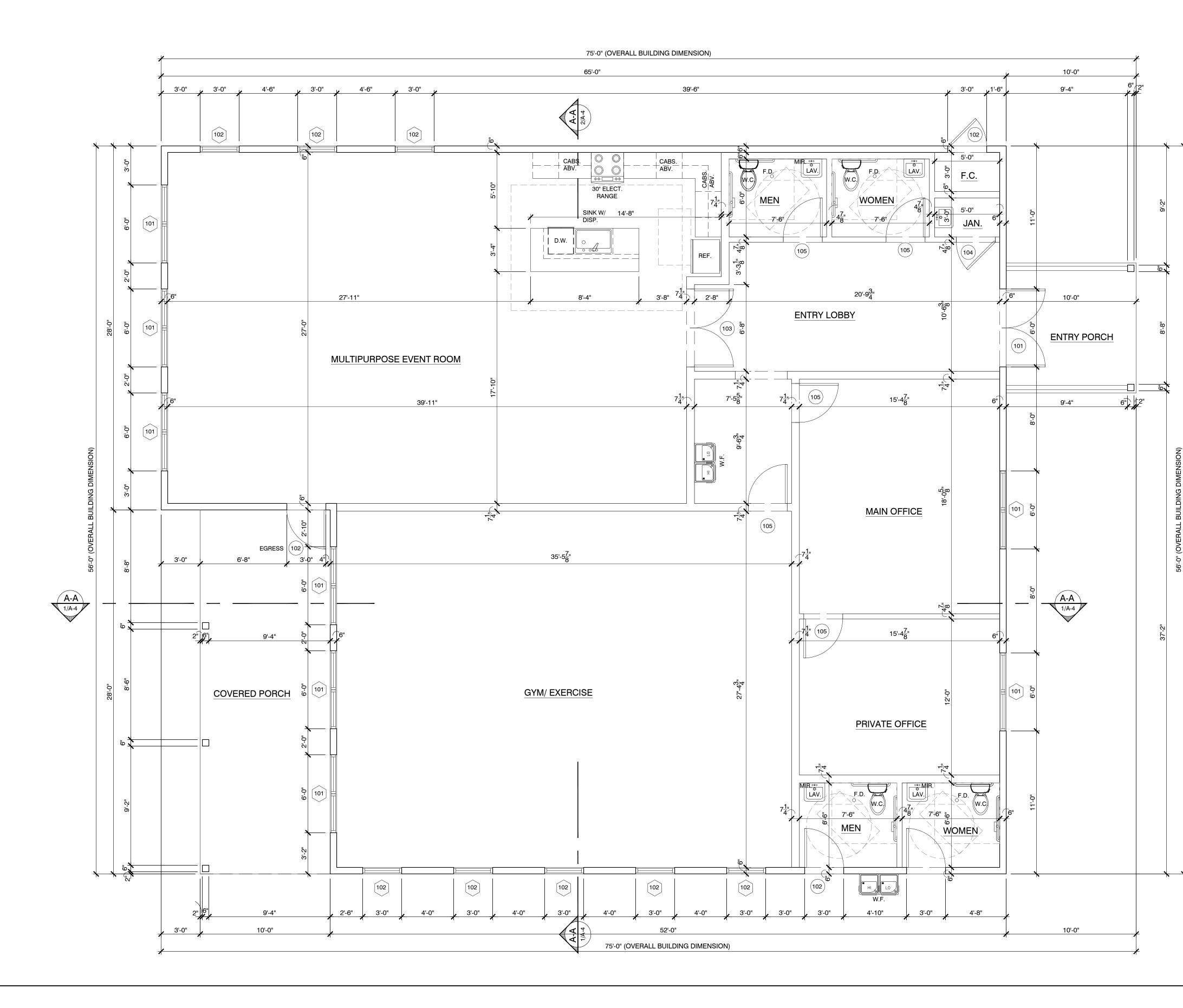
NOTE2: AS STATED ABOVE IN NOTE 1 THE OFFICES ARE ANCILI THE ASSEMBLY A-3 USE THEREFORE NO SEPARATION ARE CONSIDERED.

	SHE	ET IND	EX
North Contraction	DATE	SHEET	SHE
(N)	DAIL	CS-1	CO
A MAR			
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		A-1.0 A-2.0	FLO ROO
		A-3.1	ELE\
and the second second		A-3.2	ELE\
1000		A-4	BUIL
			STR
		S-0.00	GEN
A PERCENT		S-0.01	GEN
S STAR		S-1.00	TYP
and the second second		S-1.01 S-1.02	TYP TYP
and the second second		S-1.02	TYP
		S-2.00	FOU
		S-3.00	FOU
		S-4.00	FRA
			ELE
		E-01	ELE
		E-02	ELE
		E-03 E-04	ELE
		E-04 E-10	ELE
		E-21	ELE
		E-31	ELE
			MEC
		M-00	MEC
		M-01	MEC
A REAL PROPERTY AND A REAL		M-02	MEC
_		M-1	MEC
			PLU
		P-00	PLU
IO. P-2182		P-1	PLU
			PLU
NG (MEP)		P-00	PLU
ph: 704-4397038			
			FIRE
		FP-O	FIRE
AL)			CIV
ph: 704-9977072			
ph: 828-6877177			
P			
TION:			
ROUP A-3 6,000			
' SPRINKLED MAX.			
INKLED			
Y (NO RATINGS			
ASSEMBLY (SEE			
0 HR (TABLE 601) EQUIRED- 0 HR			
/SIS THE OFFICE FICES ARE			
HE IVE.			
IVE. CILLARY USES TO			
ILLARY USES TO IN FIRE RATINGS			

ET INDEX           SHEET         SHEET TITLE           COVER SHEET: NOTES-LOCATION MAP           ARCHITECTURAL           A10         FLOOR PLAN           A2.0         ROOF PLAN           A3.1         ELEVATIONS: FRAN WEST; & LET SIDE (EAST)           A.4         BUILDING SECTIONS "A.4" a"B-B", SECTION DETAILS           STRUCTURAL         STRUCTURAL           S-0.00         GENERAL NOTES           S-1.00         TYPICAL DETAILS           S-1.00         TYPICAL DETAILS           S-1.01         TYPICAL DETAILS           S-1.02         TYPICAL DETAILS           S-1.03         TYPICAL DETAILS           S-1.04         TYPICAL DETAILS           S-1.05         FOUNDATION SECTIONS           S-2.01         FOUNDATION SECTIONS           S-2.02         FOUNDATION SECTIONS           S-2.03         FOUNDATION SECTIONS           S-2.04         ELECTRICAL           ELECTRICAL SPECIFICATIONS           S-2.10         ELECTRICAL SPECIFICATIONS           E-2.11         ELECTRICAL SCHEP HAN           E-2.11         ELECTRICAL SCHEP HAN           E-2.11         ELECTRICAL SCHEP MET           M-04         MECHANICAL SCHEPULES		
CS-1       COVER SHEET- NOTES-LOCATION MAP         ARCHITECTURAL         A-1.0       FLOOR PLAN         A-2.0       ROOF PLAN         A-3.1       ELEVATIONS - FRONT (EAST) & RIGHT SIDE (NORTH)         A-3.2       ELEVATIONS - REAR (WEST) & LEFT SIDE (EAST)         A       BUILDING SECTIONS - "A-A" & "B-B", SECTION DETAILS         STRUCTURAL       Solo         STRUCTURAL       Solo         SOLO       GENERAL NOTES         S-1.01       TYPICAL DETAILS         S-1.02       TYPICAL DETAILS         S-1.03       TYPICAL DETAILS         S-2.00       FOUNDATION PLAN & ROOF PLAN         S-3.00       FOUNDATION SECTIONS         S-2.00       FOUNDATION SECTIONS         S-2.00       FOUNDATION SECTIONS         S-3.00       FOUNDATION SECTIONS         S-4.00       FRAMING SECTIONS         S-4.00       FRAMING SECTIONS         S-4.01       ELECTRICAL         E-02       ELECTRICAL         E-03       ELECTRICAL OVER SHEET         E-04       ELECTRICAL SITE PLAN         E-17       ELECTRICAL LIGHTING PLAN         B-10       ELECTRICAL COVER SHEET         M-10       MECHANICAL	: I IND	EX
ARCHITECTURAL         A-1.0         FLOOR PLAN         A-2.0         ROOF PLAN         A-3.1         ELEVATIONS - FRONT (EAST) & RIGHT SIDE (NORTH)         A-3.2         ELEVATIONS - REAR (WEST) & LEFT SIDE (EAST)         A-4         BUILDING SECTIONS - "A-A" & "B-B", SECTION DETAILS         STRUCTURAL         S-0.00         GENERAL NOTES         S-0.01         GENERAL NOTES         S-1.00         TYPICAL DETAILS         S-1.01         TYPICAL DETAILS         S-1.02         TYPICAL DETAILS         S-1.03         TYPICAL DETAILS         S-2.00       FOUNDATION PLAN & ROOF PLAN         S-3.00       FOUNDATION SECTIONS         S-4.00       FRAMING SECTIONS         E-01       ELECTRICAL         E-02       ELECTRICAL COVER SHEET         E-03       ELECTRICAL SPECIFICATIONS         E-04       ELECTRICAL SCHEDULES         M-04       MECHANI		
A-1.0       FLOOR PLAN         A-2.0       ROOF PLAN         A-3.1       ELEVATIONS - FRONT (EAST) & RIGHT SIDE (NORTH)         A-3.2       ELEVATIONS - REAR (WEST) & LEFT SIDE (EAST)         A-4       BUILDING SECTIONS - "A-A" & "B-B" , SECTION DETAILS         STRUCTURAL         S-0.00       GENERAL NOTES         S-0.01       GENERAL NOTES         S-0.02       TYPICAL DETAILS         S-1.00       TYPICAL DETAILS         S-1.01       TYPICAL DETAILS         S-1.02       TYPICAL DETAILS         S-1.03       TYPICAL DETAILS         S-2.00       FOUNDATION PLAN & ROOF PLAN         S-3.00       FOUNDATION SECTIONS         S-4.00       FRAMING SECTIONS         E-21       ELECTRICAL COVER SHEET         E-22       ELECTRICAL SITE PLAN         E-33       ELECTRICAL LIGHTING PLAN	CS-1	COVER SHEET- NOTES-LOCATION MAP
A-1.0       FLOOR PLAN         A-2.0       ROOF PLAN         A-3.1       ELEVATIONS - FRONT (EAST) & RIGHT SIDE (NORTH)         A-3.2       ELEVATIONS - REAR (WEST) & LEFT SIDE (EAST)         A-4       BUILDING SECTIONS - "A-A" & "B-B" , SECTION DETAILS         STRUCTURAL         S-0.00       GENERAL NOTES         S-0.01       GENERAL NOTES         S-0.02       TYPICAL DETAILS         S-1.00       TYPICAL DETAILS         S-1.01       TYPICAL DETAILS         S-1.02       TYPICAL DETAILS         S-1.03       TYPICAL DETAILS         S-2.00       FOUNDATION PLAN & ROOF PLAN         S-3.00       FOUNDATION SECTIONS         S-4.00       FRAMING SECTIONS         E-21       ELECTRICAL COVER SHEET         E-22       ELECTRICAL SITE PLAN         E-33       ELECTRICAL LIGHTING PLAN		ABCHITECTUBAI
A-2.0       ROOF PLAN         A.3.1       ELEVATIONS- FRONT (EAST) & RIGHT SIDE (NORTH)         A.3.2       ELEVATIONS - REAR (WEST) & LEFT SIDE (EAST)         A.4       BUILDING SECTIONS- "A-A" & "B-B", SECTION DETAILS         Solo       GENERAL NOTES         S-0.01       GENERAL NOTES         S-1.00       TYPICAL DETAILS         S-1.01       TYPICAL DETAILS         S-1.02       TYPICAL DETAILS         S-1.03       TYPICAL DETAILS         S-1.04       DETAILS         S-1.05       FOUNDATION PLAN & ROOF PLAN         S-3.00       FOUNDATION PLAN & ROOF PLAN         S-3.00       FOUNDATION SECTIONS         S-4.00       FRAMING SECTIONS         S-4.00       FRAMING SECTIONS         S-4.00       FRAMING SECTIONS         S-4.00       FOUNDATION PLAN & ROOF PLAN         S-3.01       ELECTRICAL         E-02       ELECTRICAL         E-03       ELECTRICAL POWER SHEET         E-04       ELECTRICAL DETAILS         E-03       ELECTRICAL POWER RISER DIAGRAM         E-10       ELECTRICAL SCHEDULES         M-00       MECHANICAL         MECHANICAL       OWER SHEET         M-02       MECHANICAL S	A-1.0	
A.3.2       ELEVATIONS - REAR (WEST) & LEFT SIDE (EAST)         A.4       BUILDING SECTIONS- "A.A" & "B-B", SECTION DETAILS         S0.00       GENERAL NOTES         \$-0.01       GENERAL NOTES         \$-1.00       TYPICAL DETAILS         \$-1.01       TYPICAL DETAILS         \$-1.02       TYPICAL DETAILS         \$-1.03       TYPICAL DETAILS         \$-1.04       TYPICAL DETAILS         \$-2.00       FOUNDATION PLAN & ROOF PLAN         \$-3.00       FOUNDATION SECTIONS         \$-3.00       FOUNDATION SECTIONS         \$-4.00       FRAMING SECTIONS         \$-4.00       FRAMING SECTIONS         \$-5.00       FOUNDATION PLAN & ROOF PLAN         \$-3.00       FOUNDATION SECTIONS         \$-4.00       FRAMING SECTIONS         \$-5.00       FOUNDATION PLAN & ROOF PLAN         \$-3.01       ELECTRICAL         E-01       ELECTRICAL COVER SHEET         E-02       ELECTRICAL DETAILS         E-03       ELECTRICAL SPECIFICATIONS         E-04       ELECTRICAL SPECIFICATIONS         E-10       ELECTRICAL SITE PLAN         E-21       ELECTRICAL IGHTING PLAN         E-21       ELECTRICAL COVER SHEET         M-01 <td></td> <td></td>		
A4       BUILDING SECTIONS- "A-A" & "B-B", SECTION DETAILS         STRUCTURAL         \$-0.00       GENERAL NOTES         \$-0.01       GENERAL NOTES         \$-1.00       TYPICAL DETAILS         \$-1.01       TYPICAL DETAILS         \$-1.02       TYPICAL DETAILS         \$-1.03       TYPICAL DETAILS         \$-2.00       FOUNDATION PLAN & ROOF PLAN         \$-3.00       FOUNDATION SECTIONS         \$-4.00       FRAMING SECTIONS         \$-5.01       ELECTRICAL         \$-6.02       ELECTRICAL COVER SHEET         \$-6.03       ELECTRICAL DETAILS         \$-6.04       ELECTRICAL DETAILS         \$-6.05       ELECTRICAL POWER RISER DIAGRAM         \$-10       ELECTRICAL SITE PLAN         \$-21       ELECTRICAL COVER SHEET DIAGRAM         \$-21       ELECTRICAL LIGHTING PLAN         \$-21       ELECTRICAL COVER SHEET         \$-02       MECHANICAL         \$-04       MECHANICAL SCHEDULES         \$-0	A-3.1	
STRUCTURAL         \$-0.00       GENERAL NOTES         \$-0.01       GENERAL NOTES         \$-1.00       TYPICAL DETAILS         \$-1.01       TYPICAL DETAILS         \$-1.02       TYPICAL DETAILS         \$-1.03       TYPICAL DETAILS         \$-2.00       FOUNDATION PLAN & ROOF PLAN         \$-3.00       FOUNDATION SECTIONS         \$-4.00       FRAMING SECTIONS         \$-20       ELECTRICAL         \$-01       ELECTRICAL COVER SHEET         \$-02       ELECTRICAL DETAILS         \$-03       ELECTRICAL POWER RISER DIAGRAM         \$-10       ELECTRICAL POWER RISER DIAGRAM         \$-10       ELECTRICAL SITE PLAN         \$-21       ELECTRICAL COVER SHEET         \$-41       ELECTRICAL COVER SHEET         \$-42       ELECTRICAL LIGHTING PLAN         \$-31       ELECTRICAL SCHEDULES         \$M-02       MECHANICAL SCHEDULES         \$M-10       MECHANICAL SCHEDULES         \$M-10       MEC		
S-0.00GENERAL NOTESS-0.01GENERAL NOTESS-1.00TYPICAL DETAILSS-1.01TYPICAL DETAILSS-1.02TYPICAL DETAILSS-1.03TYPICAL DETAILSS-2.00FOUNDATION PLAN & ROOF PLANS-2.00FOUNDATION SECTIONSS-2.00FOUNDATION SECTIONSS-4.00FRAMING SECTIONSS-4.00FRAMING SECTIONSE-01ELECTRICALE-02ELECTRICAL COVER SHEETE-03ELECTRICAL DETAILSE-04ELECTRICAL DETAILSE-03ELECTRICAL DETAILSE-04ELECTRICAL POWER RISER DIAGRAME-10ELECTRICAL POWER RISER DIAGRAME-11ELECTRICAL COVER SHEETB-10ELECTRICAL LIGHTING PLANE-21ELECTRICAL LIGHTING PLANE-31ELECTRICAL COVER SHEETM-00MECHANICAL COVER SHEETM-01MECHANICAL SCHEDULESM-02MECHANICAL SCHEDULESM-11MECHANICAL PIANP-00PLUMBINGP-00PLUMBING COVER SHEETP-11PLUMBING COVER SHEETP-00PLUMBING COVER SHEETP-00PLUMBING COVER SHEETP-00PLUMBING COVER SHEETP-00PLUMBING COVER SHEETP-00PLUMBING COVER SHEETP-00FIRE PROTECTIONFP-00FIRE PROTECTION COVER SHEETP-00FIRE PROTECTION COVER SHEETP-00FIRE PROTECTION COVER SHEET	A-4	BUILDING SECTIONS- "A-A" & "B-B" , SECTION DETAILS
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S-0.01       GENERAL NOTES         S-1.00       TYPICAL DETAILS         S-1.01       TYPICAL DETAILS         S-1.02       TYPICAL DETAILS         S-1.03       TYPICAL DETAILS         S-2.00       FOUNDATION PLAN & ROOF PLAN         S-3.00       FOUNDATION SECTIONS         S-4.00       FRAMING SECTIONS         E-01       ELECTRICAL         E-02       ELECTRICAL COVER SHEET         E-03       ELECTRICAL DETAILS         E-04       ELECTRICAL POWER RISER DIAGRAM         E-10       ELECTRICAL POWER RISER DIAGRAM         E-10       ELECTRICAL SOLE NEET DIAGRAM         E-21       ELECTRICAL LIGHTING PLAN         E-31       ELECTRICAL COVER SHEET         M-00       MECHANICAL SCHEDULES         M-01       MECHANICAL SCHEDULES         M-02       MECHANICAL SCHEDULES	S 0 00	
S-1.00       TYPICAL DETAILS         S-1.01       TYPICAL DETAILS         S-1.02       TYPICAL DETAILS         S-1.03       TYPICAL DETAILS         S-2.00       FOUNDATION PLAN & ROOF PLAN         S-3.00       FOUNDATION SECTIONS         S-4.00       FRAMING SECTIONS         E-01       ELECTRICAL         E-02       ELECTRICAL COVER SHEET         E-03       ELECTRICAL JETAILS         E-04       ELECTRICAL POWER RISER DIAGRAM         E-10       ELECTRICAL LIGHTING PLAN         E-21       ELECTRICAL LIGHTING PLAN         E-31       ELECTRICAL COVER SHEET         M-00       MECHANICAL SCHEDULES         M-01       MECHANICAL SCHEDULES         M-02       MECHANICAL SCHEDULES         M-1       MECHANICAL SCHEDULES         M-1       MECHANICAL PLAN         PLUMBING       PLUMBING         PLUMBING COVE		
S-1.02       TYPICAL DETAILS         S-1.03       TYPICAL DETAILS         S-2.00       FOUNDATION PLAN & ROOF PLAN         S-3.00       FOUNDATION SECTIONS         S-4.00       FRAMING SECTIONS         S-4.00       FRAMING SECTIONS         S-4.00       FRAMING SECTIONS         S-4.00       FRAMING SECTIONS         E-40       ELECTRICAL         E-01       ELECTRICAL SPECIFICATIONS         E-02       ELECTRICAL DETAILS         E-03       ELECTRICAL DETAILS         E-04       ELECTRICAL POWER RISER DIAGRAM         E-10       ELECTRICAL SITE PLAN         E-21       ELECTRICAL POWER RISER DIAGRAM         E-21       ELECTRICAL SITE PLAN         E-31       ELECTRICAL SOMER PLAN         E-31       ELECTRICAL LIGHTING PLAN         M-00       MECHANICAL SCHEDULES         M-01       MECHANICAL SCHEDULES         M-1       MECHANICAL SCHEDULES         M-1       MECHANICAL plan         P-00       PLUMBING COVER SHEET         P-10       PLUMBING COVER SHEET         P-00       PLUMBING COVER SHEET         P-00       PLUMBING COVER SHEET         P-00       PLUMBING COVER SHEET		
S-1.03       TYPICAL DETAILS         S-2.00       FOUNDATION PLAN & ROOF PLAN         S-3.00       FOUNDATION SECTIONS         S-4.00       FRAMING SECTIONS         S-4.00       FRAMING SECTIONS         E-01       ELECTRICAL         E-01       ELECTRICAL COVER SHEET         E-02       ELECTRICAL SPECIFICATIONS         E-03       ELECTRICAL DETAILS         E-04       ELECTRICAL POWER RISER DIAGRAM         E-10       ELECTRICAL SITE PLAN         E-21       ELECTRICAL LIGHTING PLAN         E-31       ELECTRICAL LIGHTING PLAN         E-31       ELECTRICAL COVER SHEET         M-00       MECHANICAL         M-01       MECHANICAL SCHEDULES         M-02       MECHANICAL SCHEDULES         M-1       MECHANICAL PLAN         P-00       PLUMBING         P-00       PLUMBING PLAN         P-00       PLUMBING COVER SHEET         P-1       PLUMBING COVER SHEET         P-00       PLUMBING COVER SHEET         P-00       PLUMBING COVER SHEET         FP-00       FIRE PROTECTION         FIRE PROTECTION       FIRE PROTECTION	S-1.01	TYPICAL DETAILS
S-2.00       FOUNDATION PLAN & ROOF PLAN         S-3.00       FOUNDATION SECTIONS         S-4.00       FRAMING SECTIONS         S-4.00       FRAMING SECTIONS         E-01       ELECTRICAL         E-01       ELECTRICAL COVER SHEET         E-02       ELECTRICAL SPECIFICATIONS         E-03       ELECTRICAL DETAILS         E-04       ELECTRICAL DETAILS         E-04       ELECTRICAL SITE PLAN         E-10       ELECTRICAL NOWER RISER DIAGRAM         E-11       ELECTRICAL IGHTING PLAN         E-21       ELECTRICAL LIGHTING PLAN         E-31       ELECTRICAL COVER SHEET         M-00       MECHANICAL         M-00       MECHANICAL SCHEDULES         M-01       MECHANICAL SCHEDULES         M-02       MECHANICAL SCHEDULES         M-1       MECHANICAL PLAN         P-00       PLUMBING         P-00       PLUMBING COVER SHEET         P-10       PLUMBING COVER SHEET         P-00       PLUMBING COVER SHEET         P-00       PLUMBING COVER SHEET         FP-00       FIRE PROTECTION         FIRE PROTECTION       FIRE PROTECTION	S-1.02	TYPICAL DETAILS
S-3.00       FOUNDATION SECTIONS         S-4.00       FRAMING SECTIONS         S-4.00       FRAMING SECTIONS         E-01       ELECTRICAL         E-02       ELECTRICAL SPECIFICATIONS         E-03       ELECTRICAL DETAILS         E-04       ELECTRICAL DETAILS         E-04       ELECTRICAL SPECIFICATIONS         E-03       ELECTRICAL DOWER RISER DIAGRAM         E-10       ELECTRICAL SITE PLAN         E-21       ELECTRICAL IGHTING PLAN         E-31       ELECTRICAL LIGHTING PLAN         B-31       ELECTRICAL COVER SHEET         M-00       MECHANICAL         M-00       MECHANICAL SCHEDULES         M-01       MECHANICAL SCHEDULES         M-02       MECHANICAL SCHEDULES         M-1       MECHANICAL PLAN         P-00       PLUMBING         P-00       PLUMBING COVER SHEET         P-1       PLUMBING PLAN         P-00       PLUMBING COVER SHEET         FP-00       FIRE PROTECTION         FP-0       FIRE PROTECTION COVER SHEET	S-1.03	
S-4.00       FRAMING SECTIONS         ELECTRICAL         E-01       ELECTRICAL COVER SHEET         E-02       ELECTRICAL SPECIFICATIONS         E-03       ELECTRICAL DETAILS         E-04       ELECTRICAL POWER RISER DIAGRAM         E-10       ELECTRICAL SITE PLAN         E-21       ELECTRICAL POWER RISER DIAGRAM         E-31       ELECTRICAL LIGHTING PLAN         E-31       ELECTRICAL LIGHTING PLAN         M-00       MECHANICAL COVER SHEET         M-01       MECHANICAL SCHEDULES         M-02       MECHANICAL SCHEDULES         M-1       MECHANICAL plan         P-00       PLUMBING         P-00       PLUMBING COVER SHEET         P-1       PLUMBING COVER SHEET         P-10       FIRE PROTECTION         FFP-0       FIRE PROTECTION COVER SHEET		
E.01       ELECTRICAL         E-01       ELECTRICAL COVER SHEET         E-02       ELECTRICAL SPECIFICATIONS         E-03       ELECTRICAL DETAILS         E-04       ELECTRICAL POWER RISER DIAGRAM         E-10       ELECTRICAL SITE PLAN         E-21       ELECTRICAL POWER RISER DIAGRAM         E-31       ELECTRICAL SITE PLAN         E-31       ELECTRICAL LIGHTING PLAN         B-31       ELECTRICAL LIGHTING PLAN         M-00       MECHANICAL COVER SHEET         M-01       MECHANICAL SCHEDULES         M-02       MECHANICAL SCHEDULES         M-1       MECHANICAL plan         PLUMBING         P-00       PLUMBING COVER SHEET         P-1       PLUMBING COVER SHEET         P-00       PLUMBING COVER SHEET         P-00       PLUMBING COVER SHEET         FP-0       FIRE PROTECTION         FP-0       FIRE PROTECTION COVER SHEET		
E-01ELECTRICAL COVER SHEETE-02ELECTRICAL SPECIFICATIONSE-03ELECTRICAL DETAILSE-04ELECTRICAL POWER RISER DIAGRAME-10ELECTRICAL SITE PLANE-21ELECTRICAL POWER PLANE-31ELECTRICAL LIGHTING PLANB-31ELECTRICAL LIGHTING PLANMO0MECHANICAL COVER SHEETM-01MECHANICAL SCHEDULESM-02MECHANICAL SCHEDULESM-11MECHANICAL PlanP-00PLUMBINGP-00PLUMBING COVER SHEETP-10PLUMBING COVER SHEETP-00FILUMBING COVER SHEETFIRE PROTECTIONFIRE PROTECTION COVER SHEETFP-0FIRE PROTECTION COVER SHEET	5-4.00	
E-01ELECTRICAL COVER SHEETE-02ELECTRICAL SPECIFICATIONSE-03ELECTRICAL DETAILSE-04ELECTRICAL POWER RISER DIAGRAME-10ELECTRICAL SITE PLANE-21ELECTRICAL POWER PLANE-31ELECTRICAL LIGHTING PLANB-31ELECTRICAL LIGHTING PLANMO0MECHANICAL COVER SHEETM-01MECHANICAL SCHEDULESM-02MECHANICAL SCHEDULESM-11MECHANICAL PlanP-00PLUMBINGP-00PLUMBING COVER SHEETP-10PLUMBING COVER SHEETP-00FILUMBING COVER SHEETFIRE PROTECTIONFIRE PROTECTION COVER SHEETFP-0FIRE PROTECTION COVER SHEET		ELECTRICAL
E-02       ELECTRICAL SPECIFICATIONS         E-03       ELECTRICAL DETAILS         E-04       ELECTRICAL POWER RISER DIAGRAM         E-10       ELECTRICAL SITE PLAN         E-21       ELECTRICAL POWER PLAN         E-31       ELECTRICAL LIGHTING PLAN         B-31       ELECTRICAL LIGHTING PLAN         MECHANICAL       MECHANICAL         M-00       MECHANICAL SCHEDULES         M-01       MECHANICAL SCHEDULES         M-02       MECHANICAL SCHEDULES         M-03       MECHANICAL SCHEDULES         M-04       MECHANICAL SCHEDULES         M-05       MECHANICAL SCHEDULES         M-1       MECHANICAL plan         P-00       PLUMBING         P-00       PLUMBING COVER SHEET         P-1       PLUMBING COVER SHEET         P-00       PLUMBING COVER SHEET         P-00       PLUMBING COVER SHEET         FFP-0       FIRE PROTECTION         FIRE PROTECTION       SHEET         FP-0       FIRE PROTECTION COVER SHEET	E-01	
E-03ELECTRICAL DETAILSE-04ELECTRICAL POWER RISER DIAGRAME-10ELECTRICAL SITE PLANE-21ELECTRICAL POWER PLANE-31ELECTRICAL LIGHTING PLANM-00MECHANICAL LIGHTING PLANM-00MECHANICAL COVER SHEETM-01MECHANICAL SCHEDULESM-02MECHANICAL SCHEDULESM-1MECHANICAL PlanP-00PLUMBINGP-00PLUMBING COVER SHEETP-1PLUMBING COVER SHEETP-00PLUMBING COVER SHEETP-00FIRE PROTECTIONFP-0FIRE PROTECTION COVER SHEETFP-0FIRE PROTECTION COVER SHEET		
E-10       ELECTRICAL SITE PLAN         E-21       ELECTRICAL POWER PLAN         E-31       ELECTRICAL LIGHTING PLAN         M-00       MECHANICAL         M-00       MECHANICAL COVER SHEET         M-01       MECHANICAL SCHEDULES         M-02       MECHANICAL SCHEDULES         M-11       MECHANICAL SCHEDULES         M-12       MECHANICAL Plan         P-00       PLUMBING         P-00       PLUMBING COVER SHEET         P-1       PLUMBING PLAN         P-00       PLUMBING COVER SHEET         P-10       FIRE PROTECTION         FP-00       FIRE PROTECTION COVER SHEET         FP-0       FIRE PROTECTION COVER SHEET		ELECTRICAL DETAILS
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E-31 ELECTRICAL LIGHTING PLAN E-31 ELECTRICAL LIGHTING PLAN MECHANICAL M-00 MECHANICAL COVER SHEET M-01 MECHANICAL SCHEDULES M-02 MECHANICAL SCHEDULES M-1 MECHANICAL SCHEDULES M-1 MECHANICAL plan PLUMBING P-00 PLUMBING COVER SHEET P-1 PLUMBING PLAN P-00 PLUMBING COVER SHEET P-00 PLUMBING COVER SHEET FP-0 FIRE PROTECTION FP-0 FIRE PROTECTION COVER SHEET		
MECHANICAL         M-00       MECHANICAL COVER SHEET         M-01       MECHANICAL SCHEDULES         M-02       MECHANICAL SCHEDULES         M-1       MECHANICAL plan         PLUMBING       PLUMBING         P-00       PLUMBING COVER SHEET         P-1       PLUMBING PLAN         P-00       PLUMBING COVER SHEET         F-00       FIRE PROTECTION         FP-00       FIRE PROTECTION COVER SHEET		
M-00MECHANICAL COVER SHEETM-01MECHANICAL SCHEDULESM-02MECHANICAL SCHEDULESM-1MECHANICAL planP-00PLUMBINGP-00PLUMBING COVER SHEETP-1PLUMBING PLANP-00PLUMBING COVER SHEETP-00PLUMBING COVER SHEETF-00FIRE PROTECTIONFP-00FIRE PROTECTION COVER SHEET	E-31	ELECTRICAL LIGHTING PLAN
M-00MECHANICAL COVER SHEETM-01MECHANICAL SCHEDULESM-02MECHANICAL SCHEDULESM-1MECHANICAL planP-00PLUMBINGP-00PLUMBING COVER SHEETP-1PLUMBING PLANP-00PLUMBING COVER SHEETP-00PLUMBING COVER SHEETP-00FILUMBING COVER SHEETP-00FILUMBING COVER SHEETP-00FILUMBING COVER SHEETFP-00FIRE PROTECTIONFP-00FIRE PROTECTION COVER SHEET		MECHANICAL
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M-1MECHANICAL planPLUMBINGP-00PLUMBING COVER SHEETP-1PLUMBING PLANP-00PLUMBING COVER SHEETP-00PLUMBING COVER SHEETFP-00FIRE PROTECTIONFP-0FIRE PROTECTION COVER SHEETImage:		
PLUMBING         P-00         PLUMBING COVER SHEET         P-1         PLUMBING PLAN         P-00         PLUMBING COVER SHEET         P-00         PLUMBING COVER SHEET         FP-00         FIRE PROTECTION         FP-0         FIRE PROTECTION COVER SHEET	M-02	
P-OO       PLUMBING COVER SHEET         P-1       PLUMBING PLAN         PLUMBING COVER SHEET         P-OO       PLUMBING COVER SHEET         FP-O       FIRE PROTECTION         FP-O       FIRE PROTECTION COVER SHEET	M-1	MECHANICAL plan
P-OO       PLUMBING COVER SHEET         P-1       PLUMBING PLAN         PLUMBING COVER SHEET         P-OO       PLUMBING COVER SHEET         FP-O       FIRE PROTECTION         FP-O       FIRE PROTECTION COVER SHEET		
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FIRE PROTECTION       FP-O     FIRE PROTECTION COVER SHEET		PLUMBING
FP-O FIRE PROTECTION COVER SHEET	P-00	PLUMBING COVER SHEET
FP-O FIRE PROTECTION COVER SHEET		
	_	
CIVIL  CIVIL CIVIL  CIVIL  CIVIL C	FP-O	FIRE PROTECTION COVER SHEET
UVIL           Image: Control of the second		
		CIVIL



REC BUILDING EXTERIOR DOOR SCHEDULE					REC BUILDING INTERIOR DOOR SCHEDULE				REC BUILDING WINDOW SCHEDULE														
No.	TYPE	Wx H	R. O. W. x H.	OPER.	MATER.	SILL	REMARKS	EGRESS	No.	TYPE	W x H	MATER.	SILL	REMARKS	No.	TYPE	WxH	R. O. W x H	OPER.	MATERIAL	SILL	REMARKS	EGRESS
101	FRONT DOOR	(2)3'-0" X 8'-0"	76" X 96"	XX	VINYL/GLS.	MTWS	TEMP. GLASS	EGRESS	103	DOUBLE DR.	(2)3'-0"X8'-0"	WOOD	-	S.C. W/ SELF CLOSURE	101	DOUBLE FIXED	(2) 36" X 84"	72" X 84"	00	VINYL/GLS.	@ 2'-0" A.F.F.	(2) PANE TEMPERED GLASS	
102	FRENCH DOOR	3'-0" X 8'-0"	40" X 96"	х	VINYL/GLS.	MTWS	TEMP. GLASS	EGRESS	104	SINGLE DR.	3'-0"X8'-0"	WOOD	-	-	102	FIXED	36" X 84"	36" X 84"	0	VINYL/GLS.	@ 2'-0" A.F.F.	(1) PANE TEMPERED GLASS	
									105	SINGLE DR.	3'-0"X8'-0"	WOOD	-	S.C. W/ SELF CLOSURE	103	FIXED	24" X 24"	24" X 24"	0	VINYL/GLS.	@ 11'-10"/ 18'-10" A.F.F.	(1) PANE	



## **GENERAL PLAN NOTES**

A. ALL PARTITIONS ARE DIMENSIONED FROM FACE OF WALL TO FACE OF WALL UNLESS OTHERWISE NOTED. B. ALL DIMENSIONS MARKED 'CLEAR' OR 'CLR' SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF ALL WALL FINISHES, UNLESS OTHERWISE NOTED. ALL EXPOSED GYPSUM BOARD EDGES TO HAVE METAL EDGE TRIM, UNLESS OTHERWISE NOTED.

- ALL WORK SHALL BE ERECTED AND INSTALLED PLUMB, LEVEL, SQUARE AND TRUE, AND IN PROPER ALIGNMENT. TRIM THE BOTTOM OF DOORS TO CLEAR THE TOP OF ALL FINISHED FLOORS. AS APPLICABLE BY 1/4" MAXIMUM, UNLESS OTHERWISE NOTED. VERIFY SLAB CONDITIONS, TRIM EACH DOOR TO FIT CONDITIONS. WHERE RADICAL VARIATIONS IN FLOOR ELEVATION OCCUR EXIST, DOORS SHALL BE
- ORDERED WITH BOTTOM STILE SIZED TO ACCOMMODATE THESE UNDERCUT CONDITIONS. ALL MILLWORK TO BE FASTENED TO THE PARTITION THEY ADJOIN. PROVIDE BLOCKING FOR ALL MILLWORK. G. ALL NEW GYPSUM BOARD TO BE 5/8" TYPE "X" UNLESS OTHERWISE NOTED.
  H. PRIME AND PAINT INTERIOR WALLS W/ MIN. 2 FINISH COATS (MATTE WHITE OR COLOR SELECTED BY
- OWNER). PRIME AND PAINT WALLS IN RESTROOM W/ MIN. 2 COATS MOISTURE RESISTANT WASHABLE PAINT (SATIN/ EGGSHELL. WHITE). PRIME AND PAINT ALL INTERIOR CASEWORK WOOD TRIM W/ MIN. 2 COATS (SEMI GLOSS WHITE).
- FLOOR FINISH TO BE SELECTED BY OWNER.(T.B.D.) RESTROOM FLOORS ARE TO BE COVERED IN V.C.T. OR TILE (SELECTED BY OWNER) WITH VINYL BASE AT WALLS (SELECTED BY OWNER).
- M. ALL WALL MOUNTED ITEMS & FIXTURES SHALL HAVE PROPER SOLID BACKING INSTALLED IN THE WALL SYSTEM PRIOR TO HANGING WALLBOARD.

### **BUILDING CODE INFORMATION**

COUNTY JURISDICTION: HENDERSON STATE JURISDICTION: NORTH CAROLINA

APPLICABLE CODES: N.C.B.C. 2018 BUILDING, PLUMBING, MECHANICAL, ENERGY CONSERVATION, FIRE PREVENTION CODES

### PLUMBING FIXT. REQ. N.C.B.C. 2018 BUILDING TABLE 1004.1.2 & PLUMBING TABLE 403.1

TABLE 1004.1.2 OCCUPANCY PER USE: BUSINESS OCCUPANCY-OFFICE AREA: 470 SF. @100 GROSS SF.

PERSONS TOTAL: 4.7 (5) TOTAL 2.5 (3) EA. SEX. ASSEMBLY OCCUPANCY-MULTIPURPOSE ROOM AREA: 880 SF. @15 NET SF.

PERSONS TOTAL: 58.7 (59) TOTAL 29.5 (30) EA. SEX. ASSEMBLY OCCUPANCY-GYM/WORKOUT ROOM AREA: 958 SF. @50 GROSS SF.

PERSONS TOTAL: 19.1 (20) TOTAL 10 EA. SEX. ASSEMBLY OCCUPANCY-OUTDOOR PORCH AREA: 280 SF. @15 NET SF.

PERSONS TOTAL: 18.7 (19) TOTAL 9.5 (10) EA. SEX.

TOTAL PERSONS ALL USES AND OCCUPANCIES: 101.2 (102) TOTAL 51 EA. SEX. TABLE 403.1 MINIMUM REQUIRED FIXTURES: A-3 WITHOUT PERMANENT SEATING W.C. - 1 PER 125 MEN AND 1 PER 65 WOMEN = 1 EA. SEX. LAV. -1 PER 200 EA. SEX.

SERVICE SINK- 1 REQ. DRINKING FOUNTAIN- 1 PER 500 TOTAL PERSONS

NOTE1 RESTROOMS REQUIREMENTS WERE CALCULATED ON THE BUILDING TOTAL OCCUPANCY TOTALS FOR EACH SEX HOWEVER SINCE THE OFFICE IS AND ANCILLARY COMPONENT OF THE ASSEMBLY USES. NOTE2:

ADDITIONAL RESTROOM FACILITIES HAVE BEEN ADDED ABOVE THE MINIMUM CODE REQUIREMENTS AS THERE WILL BE AN OUTDOOR POOL OPERATED SEASONALLY AND THE RESTROOMS WILL BE OPERATED ACCORDINGLY.

## **BUILDING INFORMATION**

### ENCLOSED AREA: 3,276 SF. GROSS COVERED AREA: 380 SF. TOTAL

TOTAL AREA UNDER ROOF: 3,656 SF. (TABLE 506.2 GROUP A-3 6,000 /24,000 S1 SPRINKLED MAX AREA ALLOWABLE)

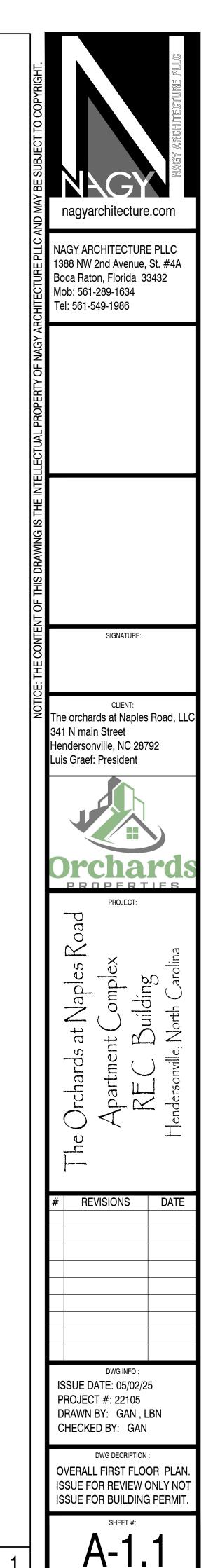
BUILDING HEIGHT: ±25'-0" (TABLE 504.3 A-3 40' NS/60' SPRINKLED MAX. ALLOWABLE) NUMBER OF STORIES: 1 (TABLE 504.4 A-3 1 NS/2 SPRINKLED ALLOWABLE STORIES) CONSTRUCTION TYPE: VB, S1 SPRINKLED ONE STORY (NO RATINGS REQ. TABLE 601)

OCCUPANCY GROUP: MIXED OFFICE AREA (B) & A3 ASSEMBLY (SEE NOTE 1)

FIRE RATINGS FOR BUILDING ELEMENTS REQUIRED- 0 HR (TABLE 601) FIRE SEPARATION RATINGS FOR EXTERIOR WALLS REQUIRED- 0 HR (TABLE 602) NOTE 1:

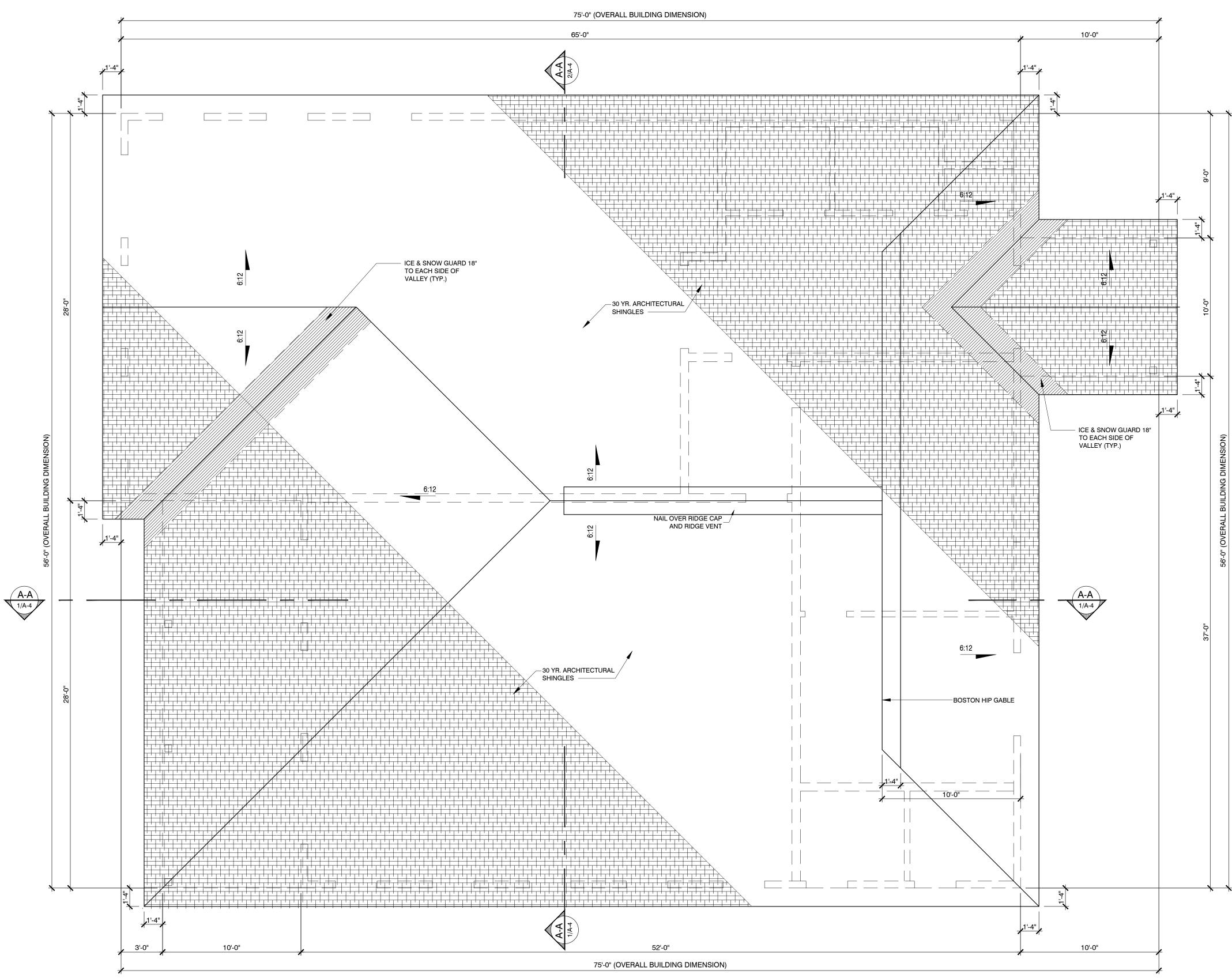
FOR THE PURPOSES OF THIS BUILDING CODE ANALYSIS THE OFFICE USES (B) ARE CONSIDERED AS A-3 BECAUSE THE OFFICES ARE ANCILLARY USES TO THE ASSEMBLY A-3 USE AND THE REQUIREMENTS FOR A-3 USES ARE MORE RESTRICTIVE. NOTE2: AS STATED ABOVE IN NOTE 1 THE OFFICES ARE ANCILLARY USES TO THE ASSEMBLY

A-3 USE THEREFORE NO SEPARATION FIRE RATINGS ARE CONSIDERED.



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

NORTH



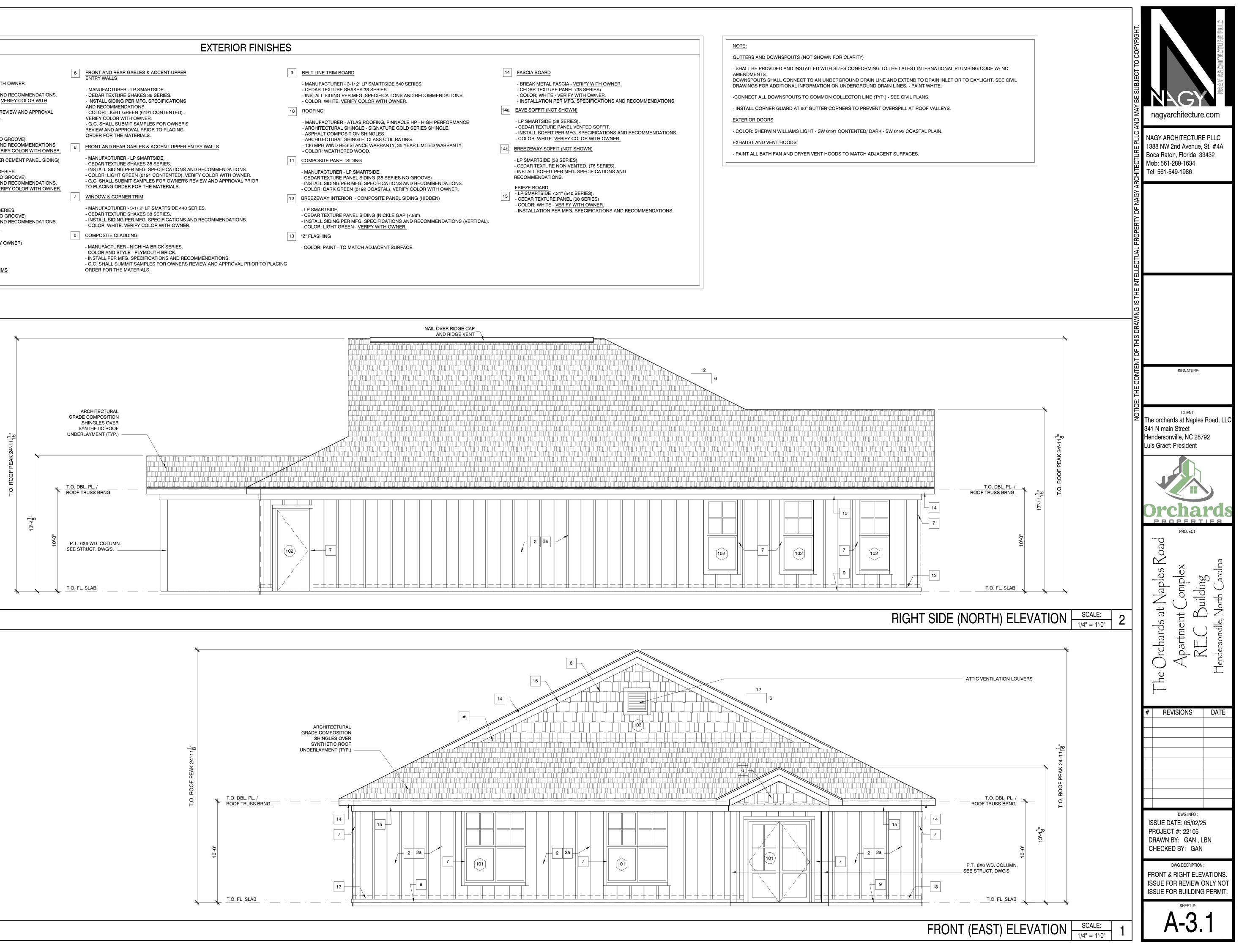




 ROOF PLAN
 SCALE: 1/4" = 1'-0"

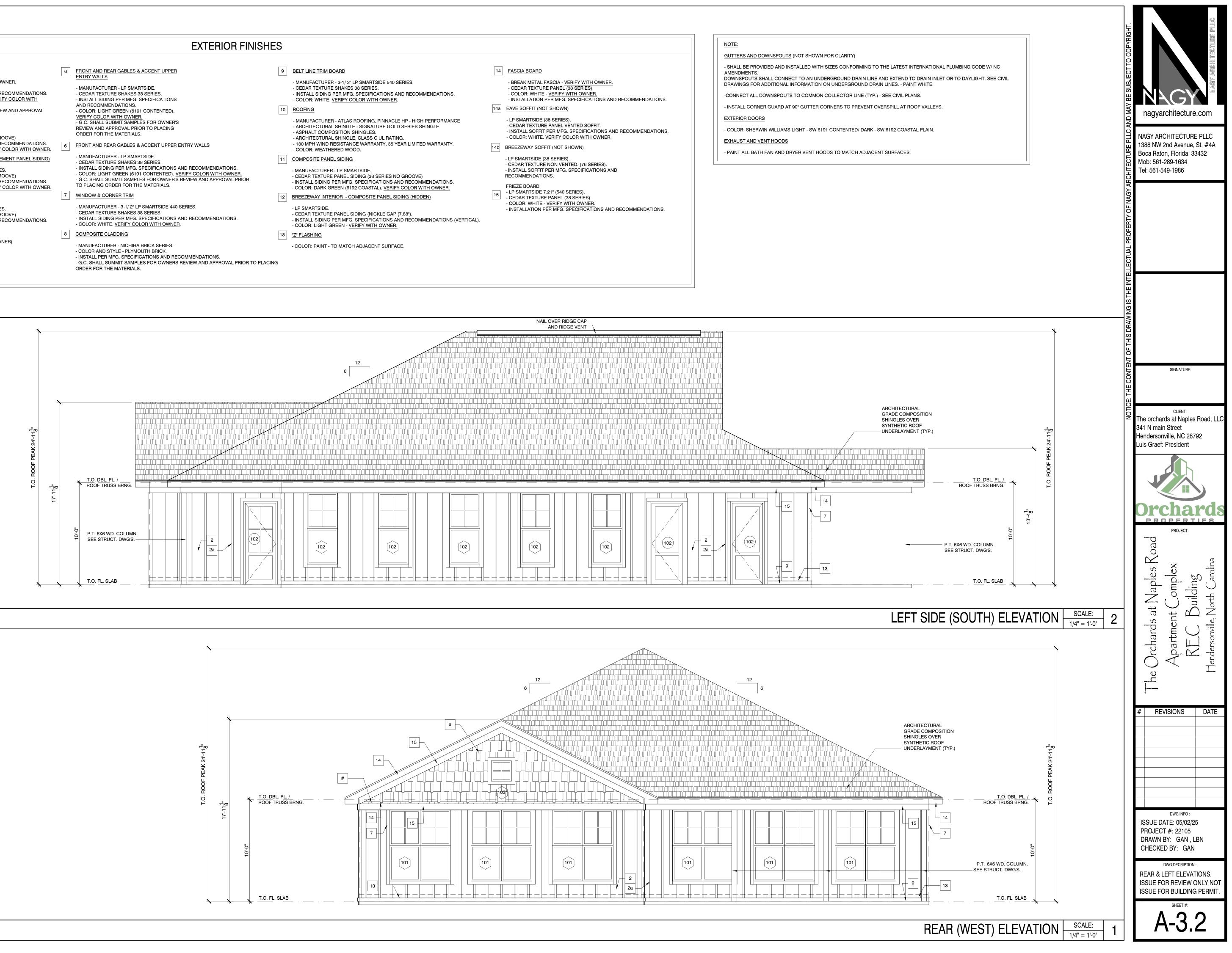
NORTH

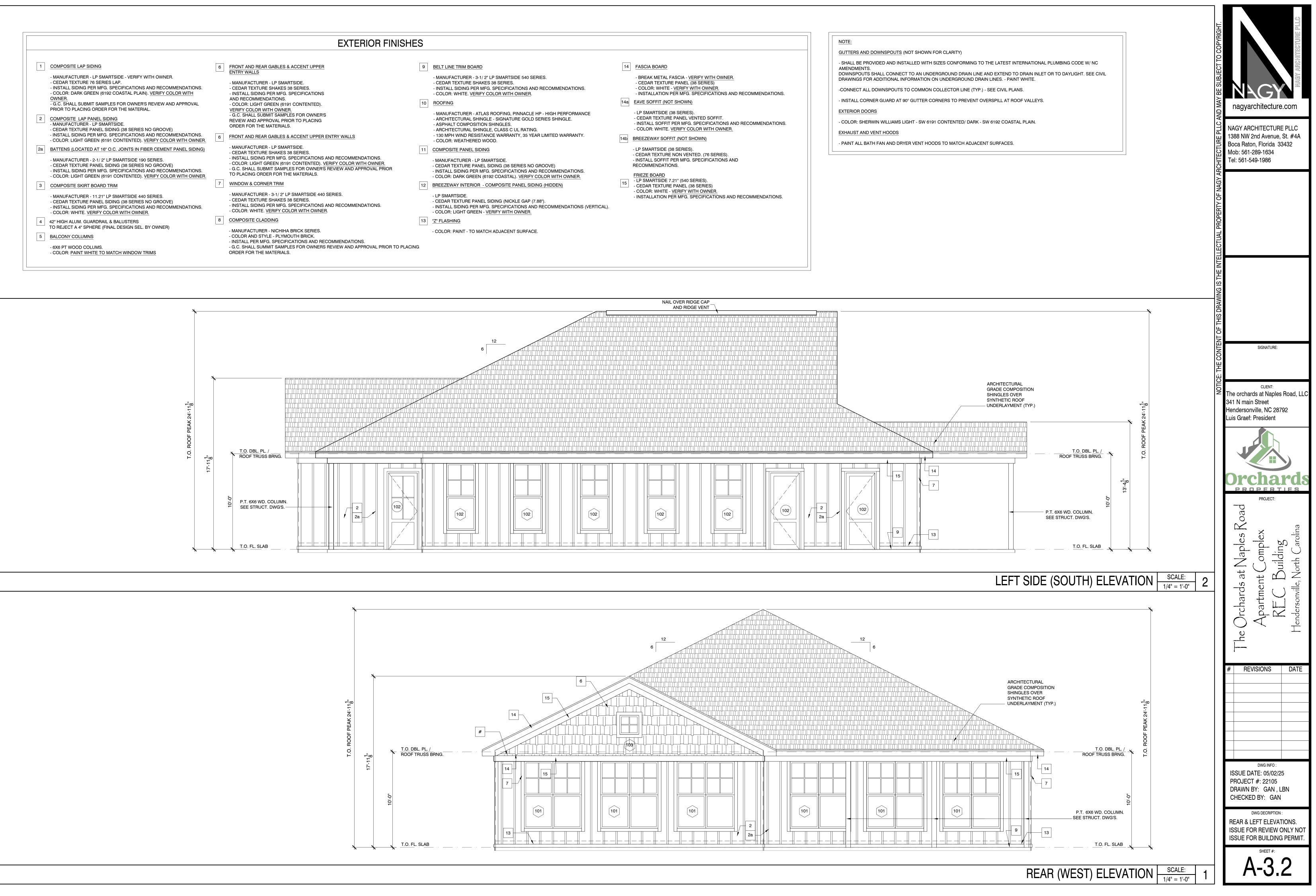
1	COMPOSITE LAP SIDING - MANUFACTURER - LP SMARTSIDE - VERIFY WITH OWNER. - CEDAR TEXTURE 76 SERIES LAP. - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: DARK GREEN (6192 COASTAL PLAIN). <u>VERIFY COLOR WITH</u> <u>OWNER.</u> - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIAL.	6	FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS - MANUFACTURER - LP SMARTSIDE. - CEDAR TEXTURE SHAKES 38 SERIES. - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: LIGHT GREEN (6191 CONTENTED).	9	 - - - -
2	<u>COMPOSITE_LAP_PANEL_SIDING</u> - MANUFACTURER - LP_SMARTSIDE. - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE) - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.	6	VERIFY COLOR WITH OWNER. - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS. FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS		-
2a	<ul> <li>COLOR: LIGHT GREEN (6191 CONTENTED). <u>VERIFY COLOR WITH OWNER.</u></li> <li>BATTENS (LOCATED AT 16" O.C. JOINTS IN FIBER CEMENT PANEL SIDING)</li> <li>MANUFACTURER - 2-1/2" LP SMARTSIDE 190 SERIES.</li> <li>CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)</li> <li>INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.</li> <li>COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.</li> </ul>		<ul> <li>MANUFACTURER - LP SMARTSIDE.</li> <li>CEDAR TEXTURE SHAKES 38 SERIES.</li> <li>INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.</li> <li>COLOR: LIGHT GREEN (6191 CONTENTED). <u>VERIFY COLOR WITH OWNER.</u></li> <li>G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.</li> </ul>	11	- - -
3	COMPOSITE SKIRT BOARD TRIM	7	WINDOW & CORNER TRIM	12	Ē
	- MANUFACTURER - 11.21" LP SMARTSIDE 440 SERIES. - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE) - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: WHITE. <u>VERIFY COLOR WITH OWNER.</u>		- MANUFACTURER - 3-1/ 2" LP SMARTSIDE 440 SERIES. - CEDAR TEXTURE SHAKES 38 SERIES. - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: WHITE. <u>VERIFY COLOR WITH OWNER</u> .		- - -
4	42" HIGH ALUM. GUARDRAIL & BALUSTERS TO REJECT A 4" SPHERE (FINAL DESIGN SEL. BY OWNER)	8	COMPOSITE CLADDING	13	<u> </u>
5	BALCONY COLUMNS - 6X6 PT WOOD COLUMS. - COLOR: PAINT WHITE TO MATCH WINDOW TRIMS		<ul> <li>MANUFACTURER - NICHIHA BRICK SERIES.</li> <li>COLOR AND STYLE - PLYMOUTH BRICK.</li> <li>INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.</li> <li>G.C. SHALL SUMMIT SAMPLES FOR OWNERS REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.</li> </ul>	G	-

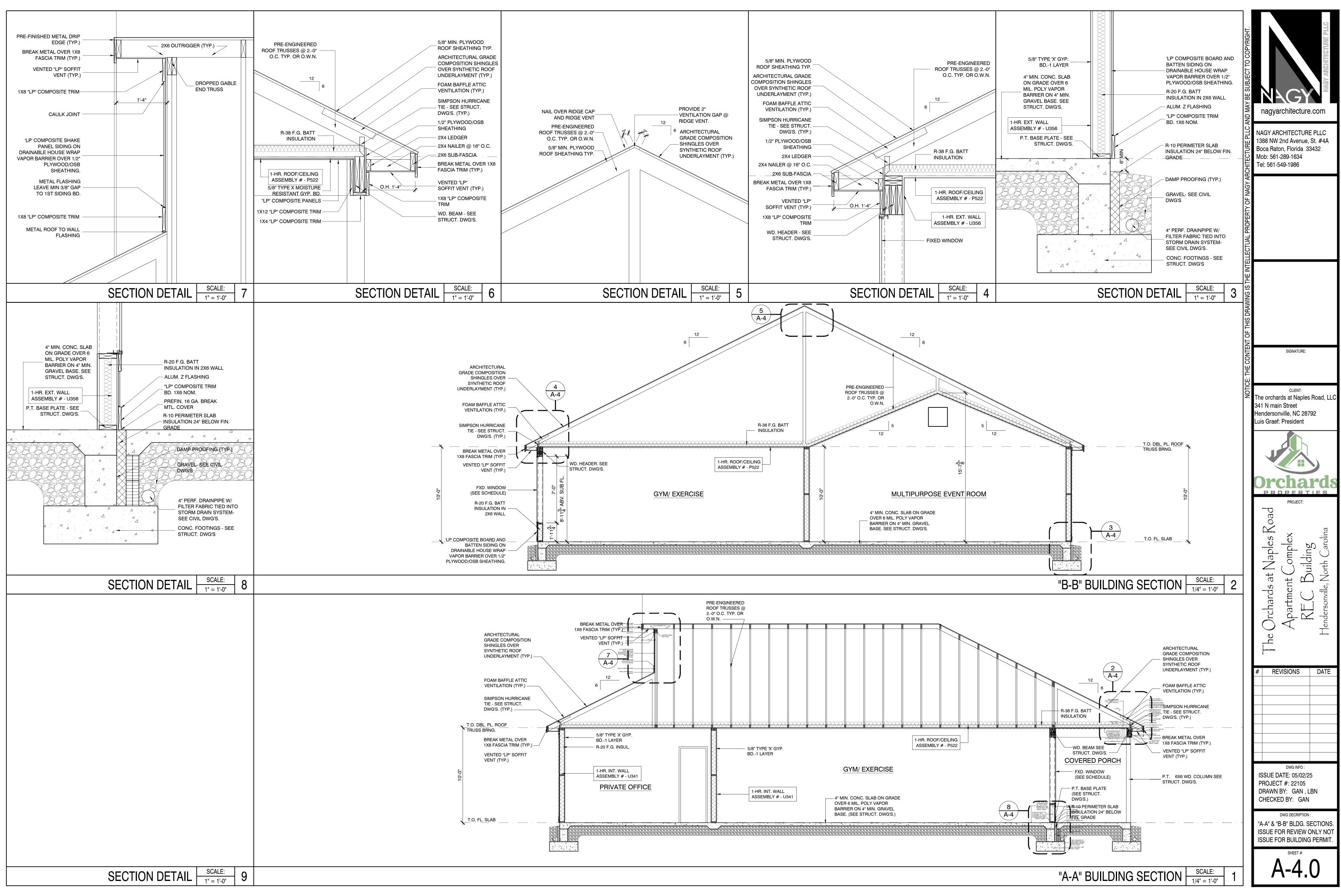


*		
T.O. ROOF PEAK 24'-11 <u>1</u> "		G JU
T.O. ROO	T.O. DBL. PL. / ROOF TRUSS BRNG.	
<b>x</b>	T.O. FL. SLAB	

1	COMPOSITE LAP SIDING	6	FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS	9
2	<ul> <li>MANUFACTURER - LP SMARTSIDE - VERIFY WITH OWNER.</li> <li>CEDAR TEXTURE 76 SERIES LAP.</li> <li>INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.</li> <li>COLOR: DARK GREEN (6192 COASTAL PLAIN). <u>VERIFY COLOR WITH</u> <u>OWNER.</u></li> <li>G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIAL.</li> <li><u>COMPOSITE LAP PANEL SIDING</u></li> <li>MANUFACTURER - LP SMARTSIDE.</li> <li>CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)</li> <li>INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.</li> </ul>	6	- MANUFACTURER - LP SMARTSIDE.     - CEDAR TEXTURE SHAKES 38 SERIES.     - INSTALL SIDING PER MFG. SPECIFICATIONS     AND RECOMMENDATIONS.     - COLOR: LIGHT GREEN (6191 CONTENTED). <u>VERIFY COLOR WITH OWNER.</u> - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S     REVIEW AND APPROVAL PRIOR TO PLACING     ORDER FOR THE MATERIALS.  FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS	10
2a	<ul> <li>COLOR: LIGHT GREEN (6191 CONTENTED). <u>VERIFY COLOR WITH OWNER.</u></li> <li>BATTENS (LOCATED AT 16" O.C. JOINTS IN FIBER CEMENT PANEL SIDING)</li> <li>MANUFACTURER - 2-1/ 2" LP SMARTSIDE 190 SERIES.</li> <li>CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)</li> <li>INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.</li> <li>COLOR: LIGHT GREEN (6191 CONTENTED). <u>VERIFY COLOR WITH OWNER.</u></li> </ul>	0	<ul> <li>MANUFACTURER - LP SMARTSIDE.</li> <li>CEDAR TEXTURE SHAKES 38 SERIES.</li> <li>INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.</li> <li>COLOR: LIGHT GREEN (6191 CONTENTED). <u>VERIFY COLOR WITH OWNER.</u></li> <li>G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.</li> </ul>	11
	COMPOSITE SKIRT BOARD TRIM - MANUFACTURER - 11.21" LP SMARTSIDE 440 SERIES. - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE) - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: WHITE. VERIFY COLOR WITH OWNER.	7	WINDOW & CORNER TRIM - MANUFACTURER - 3-1/ 2" LP SMARTSIDE 440 SERIES. - CEDAR TEXTURE SHAKES 38 SERIES. - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: WHITE. VERIFY COLOR WITH OWNER.	12
4	42" HIGH ALUM. GUARDRAIL & BALUSTERS TO REJECT A 4" SPHERE (FINAL DESIGN SEL. BY OWNER) BALCONY COLUMNS - 6X6 PT WOOD COLUMS. - COLOR: <u>PAINT WHITE TO MATCH WINDOW TRIMS</u>	8	COMPOSITE CLADDING - MANUFACTURER - NICHIHA BRICK SERIES. - COLOR AND STYLE - PLYMOUTH BRICK. - INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - G.C. SHALL SUMMIT SAMPLES FOR OWNERS REVIEW AND APPROVAL PRIOR TO PLACIN ORDER FOR THE MATERIALS.	13 NG







STR	UCTUR	AL ABBREVIATI	ONS		
	ABBREV.	DEFINITION		ABBREV.	DEFINITION
	A.B.	anchor bolts		HOF	horizontal outer face
	ABV	above		HK	hook
	ADDNL	additional		HORZ	horizontal
	AFF	above finished floor		IF	inner face
	ALT	alternate		INT	interior
	ARCH	architectural		JT	joint
	B, BOT	bottom		K	kips (1000 lbs)
	B/xxx	bottom of xxx		L, LEN	length
	BAL.	balance		LAT	lateral
	BB	bond beam		LBS	pounds
	BCX	bottom chord extension		LE	left end
	BL	brick ledge			long leg horizontal
	BLDG	-		LLO	
		building		LLV	long leg outstanding
	BLW	below			long leg vertical
	BM	beam		LONG	longitudinal
	BRG	bearing		MAS	masonry
	BRK	brick		MAX	maximum
	BTWN	between		MECH	mechanical
	CJ	const., control joint		MFR	manufacturer
	CLR	clear		MIN	minimum
	CMU	conc. masonry unit		MTL	metal
	COL	column		NOM	nominal
	CONC	concrete		OC, O/C	on center
	CONN	connection		OF	outer face, opp. face
	CONST	construction		ОН	opposite hand
	CONT	continuous		OPP	opposite
	CTR	center		OPNG	opening
	DBA	deformed bar anchor		PC	precast
		detail		PL	plate
	DET,DTL				
	DIM	dimension		RE	right end
	DWGS	drawings		REF	Reference
	DWL	dowel		REINF	reinforcement
	EA	each		REQD	required
	EE	each end		RET	retaining
	EF	each face		SOG	slab on grade
	EFF	effective		SC	slip critical
	EJ	expansion joint		SCHED	schedule
	EL,ELEV	elevation		SECT	section
	EOC	edge of concrete		SL	slab
	EOD	edge of deck		SPA	spacing
	EOM	edge of masonry		STFNR	stiffener
	EOS	edge of slab		STL	steel
	ES	each side		SUPPL	supplier
	EW	each way		T	top
	EXIST	existing		T/xxx	•
	EXP	expansion			top of xxx
	EXT	exterior, extension		TCX	top chord extension
				THK	thick, thickness
		Foot-Kips floor		TRAN	transverse
	FL, FLR			TYP	typical
	FOB	face of brick		UNO	unless noted otherwise
	FOM	face of masonry		VERT	vertical
	FOS	face of stud		VIF	verify in field
	FP	full penetration		W	wide, width
	FT	foot, feet		WWF	welded wire fabric
	FTG	footing			
	GB	grade beam			
	GEN	general			
	HEF	horizontal each face			
	HIF	horizontal inner face			

1.0 GENERAL NOTES:

- THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS. TECHNIQUES AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION WHERE CONDITIONS ARE
- NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO APPROVAL BY THE ENGINEER ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED
- SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE SUPPLIER'S INSTRUCTIONS AND REQUIREMENTS
- LOADING APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION IS THE CONTRACTORS SOLE RESPONSIBILITY AND SHALL NOT EXCEED THE SAFE LOAD - CARRYING CAPACITY BERS THELIVELOA INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.
- ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.
- SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION, ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL, AND SHALL BEAR THE CONTRACTOR'S APPROVAL STAMP ACCEPTING RESPONSIBILITY FOR DIMENSIONS, QUANTITIES AND COORDINATION WITH OTHER TRADES. IF SHOP DRAWINGS AND OTHER SUBMITTALS DO NOT BEAR THE CONTRACTORS APPROVAL STAMP, THEY WILL NOT BE REVIEWED AND WILL BE RETURNED. NO EXCEPTIONS. THE ENGINEER'S REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS.THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW CHECK AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC. ALL SUBMITTALS INCLUDING CONCRETE MIX DESIGNS, CMU SPECS, ETC. MUST BE DATED AND NO MORE THAN ONE (1) YEAR OLD.
- SUBMIT SHOP DRAWINGS IN THE FORM OF THREE PRINTS.IN NO CASE SHALL REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.CONTRACTOR SHALL PROVIDE IN HIS SCHEDULE FOR SHOP DRAWING REVIEW AND RETURN TIME, A MINIMUM OF FIFTEEN (15) WORKING DAYS IN THE STRUCTURAL ENGINEER'S OFFICE.AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW: CONCRETE MIX DESIGN(S)
- REINFORCING STEEL SHOP DRAWINGS INCLUDING ELEVATED SLABS. PRE-MANUFACTURED WOOD SYSTEM/TRUSS SHOP DRAWINGS WITH CALCULATIONS. OTHER SUBMITTALS MAY BE REQUIRED PER THE "SCHEDULE OF SPECIAL INSPECTIONS" OR THE SEPARATE NOTES CONTAINED HEREIN.
- UNLESS OTHERWISE INDICATED, ALL ITEMS NOTED TO BE DEMOLISHED SHALL BECOME THE CONTRACTOR'S PROPERTY AND BE REMOVED FROM THE SITE.
- CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF
- 3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE OR LOSS
- FIREPROOFING OF STRUCTURAL ELEMENTS IS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO THE SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIRE RATING REQUIREMENTS, MATERIALS AND METHODS.
- THE CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER, CLEARLY AND EXPLICITLY IN WRITING, OF ANY DEVIATION OR SUBSTITUTION OF REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS NOT RELIEVED OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS BY VIRTUE OF THE STRUCTURAL ENGINEER'S REVIEW OF SHOP DRAWINGS PRODUCT DATA FTC. UNLESS THE CONTRACTOR HAS CLEARLY AND EXPLICITLY INFORMED THE STRUCTURAL ENGINEER IN WRITING OF ANY DEVIATIONS OR SUBSTITUTIONS AT TIME OF SUBMISSION, AND THE STRUCTURAL ENGINEER HAS GIVEN WRITTEN APPROVAL FOR THE SPECIFIC DEVIATIONS OR SUBSTITUTIONS.
- ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES IN THE DRAWINGS OR SPECIFICATIONS, SHALL BE BROLIGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER. CORRECTIONS OR WRITTEN INTERPRETATIONS SHALL BE ISSUED BEFORE AFFECTED WORK MAY PROCEED.
- . IF THE CONTRACTOR CANNOT CONSTRUCT ANY PORTION OF THE WORK IDENTIFIED IN THE DRAWINGS IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS, THEN THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH THE WORK WORK THAT DOES NOT COMPLY WITH THE DRAWINGS MAY REQUIRE REMOVAL, TESTING, OR ENGINEERING EVALUATION AT THE CONTRACTOR'S EXPENSE.
- 3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH NEW WORK IN AREAS AFFECTED BY EXISTING CONDITIONS. STRUCTURAL ENGINEER SHALL BE INFORMED IN WRITING OF CONFLICTS BETWEEN EXISTING AND PROPOSED NEW CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS. INCONSISTENCIES ON THE STRUCTURAL DRAWINGS OR BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER CONTRACT, SHOP, FABRICATION, OR OTHER DRAWINGS OR INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH AFFECTED WORK.

2.0	DESIGN CRITERIA NOTES:
	THE PRIMARY DESIGN STANDARDS AND, LOWING: GENERAL: CONCRETE: MASONRY: STRUCTURAL STEEL STEEL JOISTS / GIRDERS METAL DECK COLD - FORMED METAL
2.	DESIGN GRAVITY SUPER IMPOSED DEAD AS FOLLOWS (SELF WEIGHT OF STRUCT ROOF FLOORS - TYPICAL PARTITION ALLOWANCE
3.	DESIGN GRAVITY LIVE LOADS USED IN T
	ROOF, TYPICAL STAIRS. APARTMENT/CORRIDOR BALCONY
	FLOOR LIVE LOAD REDUCTION PER N.C.I REDUCTION PER N.C.B.C HAS BEEN UTIL
4.	DESIGN LATERAL LOADS USED IN THE D WIND LOADS PER ASCE7-10:
	BASIC WIND SPEED (3 SECOND GUST) RISK CATEGORY WIND EXPOSURE HEIGHT 'h' INTERNAL PRESSURE COEFFICIENT "GC
CON	

		ITERIA NO						IF.
OWING: GENERAL: CONCRETE: MASONRY: STRUCTURAL STEEL STEEL JOISTS / GIRDERS METAL DECK COLD - FORMED METAL					DE (N.C.B.C.201			
AS F ROC	OLLOWS (S	Y SUPER IMPOS ELF WEIGHT OF		JRE IS NO	OT INCLUDED): PSF MAX.		THIS STRUCT SF MIN.	URE ARE
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DES		Y LIVE LOADS U					IRE AS FOLLU	JVVS:
	STAIRS APARTME	PICAL NT/CORRIDOR			100 PSI 40 PSI	F F		
		AD REDUCTION F			BEEN UTILIZED.	ROOF LIV	Æ LOAD	
DES	IGN LATERA	L LOADS USED			THIS STRUCTU	JRE ARE A	S FOLLOWS:	
BAS RISH WIN HEIC INTE	ic wind spi ( categor) d exposur 3ht 'h' ;rnal pres		ENT "GCpi	'n	115 MP II B 17.8ft. +/- 0.18			
			. ,					
		ZONE	I RIB		RY AREA $A = 50$	· · ·	≥100	
Γ		ZONE 4 (-)	-25.8		-23.3	-22.2		
	WALLS	ZONE 5 (-)	-31.9		-26.9	-24.7	7	
-		ZONE 4&5(+) ZONE 1 (-)	+23.8		+21.3	+20.		
	ROOF	ZONE 2 (-)	-39.0		-32.9	-30.2	-	
		ZONE 3 (-)	-67.5		-53.7	-47.8	3	
		ALL ZONES (+)	+16.0		+16.0	+16.	0	
		R & EDGE ZONES CATES POSITIVE SUCTION				UCTION).	BES.	
E RE	N WIND SISTING SY E SHEAR "V				NORTH/SOU <sup>-</sup> LIGHT FRAMI SHEAR WALL 10 KIPS	E	EAST/WEST LIGHT FRAM SHEAR WAL 10 KIPS	
CLAS RT PE CONE /IC U RTAN	S RIOD DESIC						D (ASSUMED 0.308g 0.169g II 1.0 C	))
	SMIC SISTING SY	STEM			NORTH/SOUTH EAST/ LIGHT FRAME LIGHT			
/IC E	ASE SHEAF	: "Vo"			SHEAR WALL 6 KIPS	_S	SHEAR WAL 6 KIPS	LS
		OADS USED IN <sup>-</sup> / LOADS PER AS						
50 Y EXP THE	EAR GROUN OSURE FAC RMAL FACT	ND SNOW LOAD ' TOR "Ce"	"Pg"		1	5 PSF .0 .0		
IMP0 Pf	DRTANCE F				1 1	.0	SCE 7-05, EQ	. 7-1)
THIS STRUCTURE HAS BEEN DESIGNED WITH "SAFETY FACTORS" IN ACCORDANCE WITH GENERALLY ACCEPTED PRINCIPLES OF STRUCTURAL ENGINEERING. THE FUNDAMENTAL NATURE OF THE "SAFETY FACTOR" IS TO COMPENSATE FOR UNCERTAINTIES IN THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL BUILDING COMPONENTS. IT IS INTENDED THAT "SAFETY FACTORS" BE USED SO THAT THE LOAD CARRYING CAPACITY OF THE STRUCTURE DOES NOT FALL BELOW THE DESIGN LOAD AND THAT THE BUILDING WILL PERFORM UNDER DESIGN LOAD WITHOUT DISTRESS. WHILE THE USE OF "SAFETY FACTORS" IMPLIES SOME EXCESS CAPACITY BEYOND DESIGN LOAD, SUCH EXCESS CAPACITY CANNOT BE ADEQUATELY PREDICTED AND SHALL NOT BE RELIED UPON.								
BUIL	DING SHALI	NOT BE USED	AS AN EMI	ERGENC	Y SHELTER.			
STR SEC	UCTURES, S	ROLINA EXISTIN SECTION 3401.5 / THE 2015 INTE	ALTERATIO	ONS. BUI	LDING ALTERA	TIONS SH	,	
	PROPOSE WILL BE N THAN THE TION 403.3:	D ALTERATION S O LESS CONFOR BUILDING PRIO	RMING TO R TO THE	THE PRO ALTERAT	DVISIONS OF TH FIONS.	HE INTERN	NATIONAL BU	
SEC	ALTERATI PERCENT GRAVITY I TION 403.4:	ONS OF THE STI TO EXISTING ST OAD CARRYING	RUCTURE RUCTURA ELEMENT	SHALL N AL ELEME T SHALL I	OT CAUSE ANY NTS, THEREFO NOT BE REQUI	Y INCREAS ORE ADDIT RED.	E OF MORE T TIONAL STREI	NGTHENING OF
<u>SEC</u>	NOT DECF STRUCTU TION 403.6: THE EXIS	REASE THE CAP/ RAL ELEMENT. FING BUILDING'S ON OF THE EXIS	ACITY OF A	ANY EXIS R MASON	TING LATERAL	LOAD CA	RRYING CED SUCH TH	IAT NO
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3.0 DEFERRED SUBMITTAL NOTES:

SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

- IN NO CASE SHALL REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD. CONTRACTOR SHALL PROVIDE IN HIS SCHEDULE FOR SHOP DRAWING REVIEW AND RETURN TIME, A MINIMUM OF FIFTEEN (15) WORKING DAYS IN THE STRUCTURAL ENGINEER'S OFFICE.
- ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL, AND SHALL BEAR THE CONTRACTOR'S APPROVAL STAMP ACCEPTING RESPONSIBILITY FOR DIMENSIONS, QUANTITIES AND COORDINATION WITH OTHER TRADES. IF SHOP DRAWINGS AND OTHER SUBMITTALS DO NOT BEAR THE CONTRACTORS APPROVAL STAMP, THEY WILL NOT BE REVIEWED AND WILL BE RETURNED. NO EXCEPTIONS.
- ALL SHOP DRAWINGS AND CALCULATIONS FOR DELEGATED DESIGN REQUIRING AN ENGINEER'S SEAL SHALL BE SEALED PRIOR TO SUBMISSION FOR REVIEW. IF SHOP DRAWINGS AND OTHER SUBMITTALS DO NOT BEAR THE DELEGATED ENGINEER'S SEAL, THEY WILL NOT BE REVIEWED AND WILL BE RETURNED, NO EXCEPTIONS
- WHERE NOTED SEALED DRAWINGS OR CALCULATIONS ARE REQUIRED TO BE SEALED AND SIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE PROJECT STATE. NOTE THAT PLACEMENT OR LAYOUT PLANS FOR TRUSSES AND JOISTS DO NOT REQUIRE ENGINEERS SEAL
- THE ENGINEER OR RECORD'S (EOR) REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE EOR REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC. ALL SUBMITTALS INCLUDING CONCRETE MIX DESIGNS, CMU SPECS, ETC. MUST BE DATED AND NO MORE THAN ONE (1)
- AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW:. CONCRETE MIX DESIGN(S). REINFORCING STEEL SHOP DRAWINGS
- PRE-MANUFACTURED WOOD SYSTEM/TRUSS SHOP DRAWINGS WITH CALCULATIONS. OTHER SUBMITTALS MAY BE REQUIRED PER THE "SCHEDULE OF SPECIAL INSPECTIONS" OR THE SEPARATE NOTES CONTAINED HEREIN.
- ANY SHOP DRAWINGS WITH LANGUAGE LIMITING REVIEWER RESPONSES SUCH AS BUT NOT LIMITED TO THE FOLLOWING WILL NOT BE REVIEWED AND WILL BE RETURNED. NO EXCEPTIONS. A. "RESPONSES SUCH AS "GC TO VERIFY" OR "ARCH TO VERIFY" ARE NOT ACCEPTABLE B" CLOUDS MARKED IN ..... MANNER WILL BE CONSIDERED NOT ADDRESSED"
- 9. SHOP DRAWINGS SHALL NOT BE USED AS RFI'S AND ARE TO BE CONSIDERED COMPLETELY SEPARATE SUBMITTALS.
- 4.0 SITE PREPARATION NOTES:
- WITHIN AN AREA A MINIMUM OF 5 FEET BEYOND THE BUILDING LIMITS.EXCAVATE A MINIMUM OF 3' OF EXISTING SOIL. REMOVE ALL ORGANICS PAVEMENT, ROOTS, DEBRIS AND OTHERWISE UNSUITABLE MATERIAL
- THE SURFACE OF THE EXPOSED SUBGRADE SHALL BE INSPECTED BY PROBING OR TESTING TO CHECK FOR POCKETS OF SOFT OR UNSUITABLE MATERIAL. EXCAVATE UNSUITABLE SOIL AS DIRECTED BY THE GEOTECHNICAL ENGINEER / TESTING AGENCY.
- PROOF-ROLL THE SURFACE OF THE EXPOSED SUBGRADE WITH A LOADED TANDEM AXLE DUMP TRUCK.REMOVE ALL SOILS WHICH PUMP OR DO NOT COMPACT PROPERLY AS DIRECTED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY.
- FILL ALL EXCAVATED AREAS WITH APPROVED CONTROLLED FILL, PLACE IN 8 INCH LOOSE LIFTS AND COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D - 698.
- ALL CONTROLLED FILL MATERIAL SHALL BE A SELECT GRANULAR MATERIAL FREE FROM ALL ORGANICS OR OTHERWISE DELETERIOUS MATERIAL WITH NOT MORE THAN 20% BY WEIGHT PASSING A NO. 200 SIEVE ( CLASSIFIED AS SC, SM, SP OR BETTER IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM) AND WITH A PLASTICITY INDEX NOT EXCEEDING 6%
- PROVIDE FIELD DENSITY TESTS FOR EACH 3,000 S.F. OF BUILDING AREA FOR EACH LIFT OF CONTROLLED FILL.

### 5.0 FOUNDATION NOTES: (TYP)

SCHEDULE.

- FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT BY BLE CORP, DATED 03/31/2025
- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS ". HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305.COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED.
- SEE "CAST-IN-PLACE CONCRETE NOTES" FOR MINIMUM CONCRETE COVER REQUIREMENTS AND CONCRETE ELEMENT PROPERTIES.
- ALL REINFORCING MARKED CONTINUOUS (CONT.) ON THE PLANS AND DETAILS SHALL BE LAPPED LTS AT SPLICES UNLESS OTHERWISE NOTED.SEE EMBEDMENT & LAP SPLICE
- NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY BRACING OR BY PERMANENT CONSTRUCTION.
- PRIOR TO COMMENCING ANY FOUNDATION WORK. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATING WORK WITH ANY EXISTING UTILITIES, FOUNDATIONS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES. STRUCTURAL ENGINEER MUST BE NOTIFIED IF FOOTINGS ARE LOWERED MORE THAN 2 FEET RELATIVE TO THAT WHICH IS SHOWN
- UNLESS OTHERWISE NOTED, THE CENTERLINES OF COLUMN FOUNDATIONS SHALL BE LOCATED ON COLUMN CENTERLINES.
- ALL RETAINING WALLS SHALL HAVE AT LEAST 12" OF FREE DRAINING GRANULAR BACKFILL FULL HEIGHT OF WALL. PROVIDE VERTICAL CONTROL JOINTS NOT TO EXCEED 25 FEET O.C NOR 3 TIMES THE WALL HEIGHT. MAXIMUM LENGTH OF WALL POURS SHALL NOT EXCEED 50 FEET IN ANY SINGLE POUR.
- 10. BOTTOM OF EXTERIOR FOUNDATIONS SHALL BEAR AT A MINIMUM DEPTH OF 1'-6" BELOW FINAL GRADE FOR FROST PROTECTION.
- ALL FOOTINGS HAVE BEEN DESIGNED BASED UPON AN ASSUMED SOIL BEARING PRESSURE OF 2500 PSF. ALL FOOTINGS SHALL BEAR ON UNDISTURBED, FIRM NATURAL SOIL OR COMPACTED FILL. ALL FOUNDATION EXCAVATIONS SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY PRIOR TO POURING FOUNDATION CONCRETE.
- TOP OF FOOTING ELEVATION SHALL BE AS SHOWN ON THE FOUNDATION PLAN. THESE ELEVATIONS ARE A MAXIMUM AND SHALL BE LOWERED AS REQUIRED TO OBTAIN THE REQUIRED DESIGN BEARING PRESSURE. STRUCTURAL ENGINEER MUST BE NOTIFIED IF FOOTINGS ARE LOWERED MORE THAN 2\_FEET RELATIVE TO THAT WHICH IS SHOWN.
- WHERE FOOTING EXCAVATIONS MUST REMAIN OPEN OVERNIGHT OR IF RAINFALL BECOMES IMMINENT WHILE BEARING SOILS ARE EXPOSED, A 2" TO 4" THICK MUD MAT OF UNREINFORCED LEAN (fc = 2000psi) CONCRETE SHALL BE PLACED ON THE BEARING SOILS BEFORE PLACEMENT OF THE FOOTING REINFORCING.

- 6.0 SLAB ON GRADE NOTES:
- PROVIDE CONCRETE SLABS OVER A VAPOR BARRIER PER AR POROUS FILL. CONCRETE SLABS SHALL HAVE A MAXIMUM SLU
- ALL WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH PIECES AT LEAST ONE FULL MESH
- ALL POROUS FILL MATERIAL SHALL BE A CLEAN GRANULAR M 1-1/2" SIEVE AND NO MORE THAN 5% PASSING A NO. 4 SIEVE. COMPACTED TO 95% MAX. DRY DENSITY PER ASTM D-698.
- SLAB JOINTS SHALL BE FILLED WITH APPROVED MATERIAL. T AS POSSIBLE, PREFERABLY 4 TO 6 WEEKS AFTER THE SLAB FILLING, REMOVE ALL DEBRIS FROM THE SLAB JOINTS, THEN I MANUEACTURER'S RECOMMENDATIONS AS FOLLOWS: 6" SLA OTHER SLABS - FILL WITH FIELD MOLDED OR ELASTOMERIC
- UNLESS OTHERWISE APPROVED, ALL SLAB REINFORCEMENT WITH PLASTIC TIPPED OR STAINLESS STEEL BAR SUPPORTS. PERMITTED FOR USE AS SUPPORTS.
- WALKWAYS AND OTHER EXTERIOR SLABS ARE NOT INDICATE SEE THE SITE PLAN AND ARCHITECTURAL DRAWINGS FOR LO ELEVATIONS, JOINTING DETAILS AND FINISH DETAILS. PROVID W1.4XW1.4 WWF UNLESS OTHERWISE NOTED.
- SLABS TO BE PERMANENTLY EXPOSED TO WEATHER SHALL I AN ADMIXTURE THAT CONFORMS TO ASTM C-260.
- SLABS NOT PERMANENTLY EXPOSED TO WEATHER SHALL N

ENTRAPPED AIR SHALL BE LIMITED TO 3%.

- 9. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREME STRUCTURAL CONCRETE BUILDINGS". HOT WEATHER CONCR ACI 305 COLD WEATHER CONCRETING SHALL BE IN ACCORDA
- 10 IN ORDER TO AVOID CONCRETE SHRINKAGE CRACKING, PLAC ALTERNATING LANE ( OR CHECKERBOARD ) PATTERN. THE M ANY ONE CONTINUOUS POUR IS RECOMMENDED TO BE LESS SPACING OF CONTROL JOINTS SHALL BE 3 TIMES THE SLAB (EXAMPLE 4" SLAB X 3 = 12'-0" CJ SPACING TYPICAL)
- . THE USE OF POLYPROPYLENE FIBERS (IN LIEU OF WELDED W WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER.
- 2. SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION ( DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.
- 13. THE FINISH TOLERANCE OF ALL SLABS SHALL BE IN ACCORD

### 7.0 POST-INSTALLED ANCHORS:

- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SF DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL F (E.O.R.) PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLE THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTION PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL F THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS TH REGISTERED PROFESSIONAL ENGINEER. THE CALCULATION SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PEI VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE AND/OR STANDARD(S). PROVIDE SPECIAL INSPECTIONS AS F REPORT (ICC-ES ESR OR IAPMO-UES CONTACT MANUFACTUR TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODU AVAILABILITY. CALL SIMPSON STRONG-TIE AT (800) 999-5099.
- FOR ANCHORING INTO CRACKED AND UN-CRACKED CONCRE MECHANICAL ANCHORS - SHALL HAVE BEEN TESTED IN ACCO AND / OR ICC-ES AC193 FOR CRACKED AND UN-CRACKED COI
- PRODUCTS INCLUDE: SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-2713) SIMPSON STRONG-TIE "TITEN HD", "TITEN HD-RD" & "TITEN HD SIMPSON STRONG-TIF "STAINI ESS STEEL TITEN HD" (IAPMO-
- SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-712) ADHESIVE ANCHORS - SHALL HAVE BEEN TESTED IN ACCORE ICC-ES AC308 FOR CRACKED AND UN-CRACKED CONCRETE. INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS TIME OF INSTALLATION. ACI355-4 TEMPERATURE CATEGORY DESIGN, PRIOR TO INSTALLATION OF ADHESIVE ANCHORS IN
- INCLINED ORIENTATIONS RESISTING SUSTAINED TENSION LC REQUIRED TO BE CERTIFIED IN ACCORDANCE WITH THE ACI/0 INSTALLER CERTIFICATION PROGRAM AND MUST BE CONTINU PRE-APPROVED PRODUCTS INCLUDE: THREADED ROD & REBAR AS ANCHOR ELEMENTS - SIMPSON
- (ICC-ES ESR-4057) THREADED ROD & REBAR AS ANCHOR ELEMENTS - SIMPSON (ICC-ES ESR-2508)
- THREADED ROD & REBAR AS ANCHOR ELEMENTS SIMPSON POST INSTALLED REINFORCING BARS USING THE ACI318 DEV
- PROVISION SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-40) POST INSTALLED REINFORCING BARS USING THE ACI318 DEV PROVISION - SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-250
- SIMPSON STRONG-TIE CLEAN DXS DUST EXTRACTION SYSTEM WITH THE PRODUCTS LISTED ABOVE TO DRILL AND CLEAN HO
- 3. FOR ANCHORING INTO GROUT-FILLED CONCRETE MASONRY
- MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCC ICC-ES AC01 (EXPANSION ANCHORS) OR ICC-ES AC106 (SCRE PRE-APPROVED PRODUCTS INCLUDE
- SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAPMO-UES ER-240) SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396) SIMPSON STRONG-TIE "TITEN HD" & "STAINLESS STEEL TITEN
- (ICC-ES ESR-1056) SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-716)
- B ADHESIVE ANCHORS SHALL HAVE BEEN TESTED IN ACCORD (ICC-ES AC58) PRE-APPROVED PRODUCTS INCLUDE: SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265)
- SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER281) SIMPSON STRONG-TIE "ET-HP" (IAPMO-UES ER241)
- 4. FOR ANCHORING INTO HOLLOW CONCRETE MASONRY UNITS MECHANICAL ANCHORS - SHALL HAVE BEEN TESTED IN ACCC AC106 FOR PERFORMANCE IN HOLLOW CONCRETE MASONRY PRODUCTS INCLUDE: SIMPSON STRONG-TIE "STAINLESS STEEL TITEN HD" (ICC-ES E

SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-716)

- B. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED IN ACCORD FOR PERFORMANCE IN HOLLOW CONCRETE MASONRY USIN RECOMMENDED SCREEN TUBES. PRE-APPROVED PRODUCTS SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265)
- SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-281) 5. FOR ANCHORING INTO UN-REINFORCED MASONRY A. ADHESIVE ANCHORS - SHALL HAVE BEEN TESTED IN ACCORD FOR PERFORMANCE IN UN-REINFORCED MASONRY CONFIGUR
- PRE-APPROVED PRODUCTS INCLUDE: SIMPSON STRONG-TIE "ET-HP" (ICC-ES ER-3638)
- 3. FOR ANCHORING LOW VELOCITY AND THREADED STUDS INT
- POWDER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:
- SIMPSON STRONG-TIE "POWDER-ACTUATED FASTENERS" (ICC-ES ESR-2138) B. GAS-ACTUATED FASTENERS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES
- AC70. PRE-APPROVED PRODUCTS INCLUDE: SIMPSON STRONG-TIE "GAS ACTUATED FASTENERS" (ICC-ES ESR-2811)

		2 33
	8.0 CAST-IN-PLACE CONCRETE NOTES:	LC NA 28031 312.6520
RCHITECT DRAWINGS AND 4" OF UMP OF 5 INCHES, USING TYPE 1	1. CONCRETE MIXES SHALL BE DESIGNED PER ACI 301 CHAPTER 3, USING PORTLAND CEMENT CONFORMING TO ASTM C-150 OR C-595, AGGREGATE CONFORMING TO ASTM C-33, AND ADMIXTURES CONFORMING TO ASTM C-494, C-1017, C-618,C-989 AND C-260. CONCRETE SHALL BE READY-MIXED	AL S, PLL CAROLINA fax 980.312
ASTM A-185. LAP ADJOINING	IN ACCORDANCE WITH ASTM C-94. 2. CONCRETE SHALL CONFORM TO THE FOLLOWING COMPRESSIVE STRENGTH, SLUMP AND UNIT	FURA ERS ORTH CA ORTH CA ORTH CA
IATERIAL WITH 100% PASSING A POROUS FILL SHALL BE	WEIGHT RATIO REQUIREMENTS:ELEMENTMIN. fc (28 DAYS)SLUMP*UNIT WEIGHTCONCRETE NOT NOTED3000 PSI2" TO 4"145 PCFFOOTINGS3000 PSI2" TO 4"145 PCF	<b>UCTI</b> <b>UCTI</b> <b>INEE</b> <b>INS</b> , NOI 004.997.70
HIS SHOULD TAKE PLACE AS LATE HAS BEEN CAST. PRIOR TO FILL IN ACCORDANCE WITH THE BS - FILL WITH EPOXY RESIN SEALANT	SLABS-ON-GRADE       3000 PSI       2" TO 4"       145 PCF         *AT CONTRACTOR'S OPTION. AN APPROVED ADMIXTURE MAY BE USED TO PRODUCE FLOWABLE       CONCRETE. MAXIMUM SLUMP SHALL NOT EXCEED 10 INCHES. THE CONTRACTOR SHALL SUBMIT TEST         RESULTS OF THE PROPOSED CONCRETE MIXES ALONG WITH THE MANUFACTURER'S       TECHNICAL DATA FOR APPROVAL PRIOR TO POURING CONCRETE.	JDH STRUCTUR/ STRUCTUR/ ENGINEERS 19545 GREENTREE WA CORNELIUS, NORTH C phone 704.997.7072 fa
SHALL BE SECURED INTO POSITION BRICK OR OTHER MASONRY ARE NOT	3. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS". HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.	
ED ON THE STRUCTURAL DRAWINGS. DCATIONS, DIMENSIONS, DE 4" WALKS REINFORCED WITH 6X6 -	4. WATER REDUCING ADMIXTURE SHALL BE USED IN ALL CONCRETE.	
BE AIR ENTRAINED TO 5% (+/- 1%) WITH	5. AIR ENTRAINING ADMIXTURE IN ACCORDANCE WITH ACI 301 TABLE 3.4.1 SHALL BE USED IN ALL CONCRETE EXPOSED TO FREEZING AND THAWING DURING CONSTRUCTION AND/OR SERVICE CONDITIONS.	
OT BE AIR ENTRAINED AND	6. WATER/CEMENT RATIO SHALL NOT EXCEED 0.50 FOR ANY CONCRETE SUBJECTED TO FREEZING/ THAWING.	
NTS OF ACI 301, "SPECIFICATION FOR	7. ALL PUMPED CONCRETE SHALL HAVE A WATER/CEMENT RATIO LESS THAN 0.50 AND SHALL CONTAIN A HIGH RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER).	
RETING SHALL BE IN ACCORDANCE WITH ANCE WITH ACI 306.	8. IN NO CASE SHALL A WATER/CEMENT RATIO EXCEED THE FOLLOWING: fc 3000 PSI 0.60 MAX. w/c RATIO	
CE CONCRETE SLABS IN AN IAXIMUM LENGTH OF SLAB CAST IN 3 THAN 100 FEET. THE MAXIMUM "HICKNESS IN FEET.	<ul> <li>9. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60 U.N.O EXCEPT THAT REINFORCING WHICH IS REQUIRED TO BE WELDED SHALL CONFORM TO ASTM A706. ALL WELDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH AWS D1.4. EPOXY COATED REINFORCING SHALL CONFORM TO ASTM A-775.</li> </ul>	
VIRE FABRIC) IS PROHIBITED	10. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A-185.	
OF DEPRESSED SLAB AREAS AND	11. ALL REINFORCING STEEL SHALL BE SET AND TIED IN PLACE PRIOR TO POURING OF CONCRETE. DO NOT FIELD BEND BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE UNLESS SPECIFICALLY INDICATED OR APPROVED BY THE ENGINEER.	
ANCE WITH ACI 301, TYPE A.	12. REINFORCING STEEL, INCLUDING HOOKS AND BENDS, SHALL BE DETAILED IN ACCORDANCE WITH ACI 315. ALL REINFORCING STEEL INDICATED AS BEING CONTINUOUS (CONT) SHALL BE LAPPED "LTS" PER EMBEDMENT AND LAP SPLICE SCHEDULE UNLESS OTHERWISE NOTED.	
	13. UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:	
PECIFIED ON THE CONSTRUCTION ROM THE ENGINEER-OF-RECORD I PLACE OF MISSING OR MISPLACED G POST-INSTALLED ANCHORS TO AVOID D AND CLEANED IN ACCORDANCE WITH NS (MPII). SUBSTITUTION REQUESTS, FOR BE SUBMITTED BY THE CONTRACTOR TO AT ARE PREPARED & SEALED BY A S SHALL DEMONSTRATE THAT THE RTINENT EQUIVALENT PERFORMANCE APPROPRIATE DESIGN PROCEDURE EQUIRED BY THE ANCHOR'S EVALUATION	A. CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BARS - 2" #5 BAR, W31 OR D31 WIRE & SMALLER - 1 1/2" B. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS & JOISTS #14 AND #18 BARS - 1 1/2" #11 BAR AND SMALLER - 3/4" BEAMS AND COLUMNS PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS - 1 1/2" SHELLS, FOLDED PLATE MEMBERS #6 BAR AND LARGER - 3/4" #5 BAR, W31 OR D31 WIRE AND SMALLER - 1/2"	
RER'S REPRESENTATIVE FOR THE INITIAL	<ul> <li>C. CONCRETE CAST AGAINST EARTH - 3"</li> <li>14. BAR SUPPORTS AND HOLDING BARS SHALL BE PROVIDED FOR ALL REINFORCING STEEL TO INSURE MINIMUM CONCRETE COVER AND PLACEMENT. BAR SUPPORTS SHALL BE PLASTIC TIPPED OR</li> </ul>	SIGNATURE:
TE: )RDANCE WITH ACI 355.2 NCRETE. PRE-APPROVED	STAINLESS STEEL.         15.       ALL EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES SHALL BE CHAMFERED 3/4" UNLESS	
D-CS" (ICC-ES ESR-2713) UES ER-493)	OTHERWISE NOTED.  16. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH DOCUMENTATION THAT ALL MATERIALS CONFORM TO THE OLIVALITY STANDARDS SPECIFIED IN THE CENERAL PLUE DINC CODE	CLIENT:
DANCE WITH ACI355.4 AND ADHESIVE ANCHORS SHALL BE	CONFORM TO THE QUALITY STANDARDS SPECIFIED IN THE GENERAL BUILDING CODE. 17. IN ORDER TO AVOID CONCRETE SHRINKAGE CRACKING, PLACE CONCRETE SLABS IN AN ALTERNATING LANE PATTERN. THE MAXIMUM LENGTH OF SLAB CAST IN ANY ONE CONTINUOUS	The orchards at Naples Road, 341 N main Street
B' ASSUMED IN HORIZONTAL OR UPWARDLY	POUR SHALL BE LIMITED TO 80 FEET. 18. FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE HAS OBTAINED AT LEAST 90% OF ITS 28 DAY COMPRESSIVE STRENGTH. THE CONTRACTOR SHALL PROVIDE ALL SHORING AND RE-SHORING.	Hendersonville, NC 28792 Luis Graef: President
DADS, INSTALLERS ARE CRSI ADHESIVE ANCHOR UOUSLY INSPECTED.	<ol> <li>CONSTRUCTION JOINTS, REQUIRED TO FACILITATE CONSTRUCTION, ARE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND MAY REQUIRE ADDITIONAL REINFORCING. SUCH JOINTS SHALL BE CLEARLY DETAILED ON THE SHOP DRAWINGS AND ALL REINFORCING</li> </ol>	
STRONG-TIE "SET-3G" STRONG-TIE "SET-XP"	SHALL PASS CONTINUOUSLY THROUGH THE JOINT.         20.       REFER TO ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIPS, REGLETS,	
STRONG-TIE "AT-XP" /ELOPMENT LENGTH	WASHES, MASONRY ANCHORS, BRICK LEDGE ELEVATIONS, SLAB DEPRESSIONS AND MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGELS, ETC.	
57) /ELOPMENT LENGTH /8)	21. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES.WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.	Orchard
M IN APPROVED FOR USE DLES.	22. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR UNDERFLOOR, PERIMETER AND OTHER DRAINS AND FOR SLEEVES,OUTLET BOXES, CONDUIT, ANCHORS, ETC. THE VARIOUS TRADES ARE RESPONSIBLE FOR THEIR ITEMS.	PROPERTIES PROJECT:
	23. FILL SLABS, NOT SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE REINFORCED WITH A MINIMUM OF 6X6-W1.4XW1.4 WWM UNLESS NOTED OTHERWISE ON OTHER DRAWINGS OR IN THE SPECIFICATIONS.	- D
ORDANCE WITH W ANCHORS)	24. REINFORCING BARS SHALL BE WELDED ONLY WHERE SHOWN ON THE STRUCTURAL DRAWINGS AND WELDS SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE - REINFORCING STEEL"	Roć
I HD"	<ul> <li>(AWS D1.4). NO OTHER REINFORCING MAY BE WELDED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. TACK WELDING OF ANY REINFORCING IS STRICTLY PROHIBITED.</li> <li>25. ALL REINFORCING TERMINATING AT THE TOPS OF THE COLUMNS AND PILASTERS SHALL BE HOOKED.</li> </ul>	oles R plex arolina
DANCE WITH	<ul> <li>25. ALL REINFORCING TERMINATING AT THE TOPS OF THE COLONING AND PLASTERS SHALL BE HOORED, U.N.O.</li> <li>26. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER A MINIMUM OF 48 HOURS PRIOR TO ALL CONCRETE POURS IN ORDER TO PERMIT REINFORCING STEEL REVIEW IF REQUIRED BY THE</li> </ul>	
	STRUCTURAL ENGINEER.	t ( No
ORDANCE WITH ICC-ES Y. PRE-APPROVED		chards a partment dersonville, N
ESR-1056)		rchar partm dersonv
DANCE WITH ICC-ES AC58 G MANUFACTURER'S S INCLUDE:		-he Orchards Apartmen Hendersonville,
DANCE WITH ICC-ES AC60 RATIONS A, B, AND C.		<u> </u>
O CONCRETE, MASONRY AND STEEL D IN ACCORDANCE WITH		# REVISIONS DA
1		

ISSUE DATE: 09/27/24

DWG DECRIPTION

PROJECT #: 22105

DRAWN BY:

CHECKED BY:

GENERAL NOTES

9.0 PLYWOOD/GYPBOARD SHEATHING TO WOOD NOTES:

- ALL PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH AMERICAN PLYWOOD ASSOCIATION (APA) SPECIFICATIONS. ALL ROOF PANEL SHEATHING SHALL BE 7/16" (NOM.) TYPE CDX. EXP. 1 APA RATED 24/16 SHEATHING. SUITABLE EDGE SUPPORT SHALL BE PROVIDED BY USE OF PANEL CLIPS OR BLOCKING BETWEEN FRAMING. UNLESS OTHERWISE NOTED CONNECT ROOF SHEATHING WITH 6d COMMON NAILS AT 6" O/C AT SUPPORTED PANEL EDGES AND 12" O/C AT INTERMEDIATE SUPPORTS. ALL FLOOR SHEATHING SHALL BE 19/32" (NOM.) APA RATED STURD-1-FLOOR, @ 16" O.C. EXP. 1, WITH TONGUE AND GROOVE EDGE. UNLESS OTHERWISE NOTED CONNECT FLOOR SHEATHING WITH 10d COMMON NAILS SPACED 6" O/C AT SUPPORTED EDGES AND 12" O/C AT INTERMEDIATE SUPPORTS. FIELD-GLUE USING ADHESIVES MEETING APA SPECIFICATIONS AFG-01, APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL WALL PANEL SHEATHING, INCLUDING DESIGNATED SHEAR WALLS, SHALL BE 7/16" (NOM.) TYPE CDX, EXP. 1 APA RATED 24/16 SHEATHING. UNLESS OTHERWISE INDICATED, CONNECT WALL SHEATHING WITH 10d COMMON NAILS SPACED 6" O/C AT SUPPORTED PANEL EDGES AND 12" O/C AT INTERMEDIATE SUPPORTS. SEE SHEAR WALL SCHEDULE FOR FASTENING REQUIREMENTS. INSTALL ALL PLYWOOD SHEATHING WITH THE LONG DIMENSION OF THE PANEL ACROSS SUPPORTS
- AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS. STAGGER PANEL END JOINTS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES UNLESS OTHERWISE RECOMMENDED BY THE SHEATHING MANUFACTURER. ALL NAILING SHALL BE CAREFULLY DRIVEN AND NOT OVERDRIVEN. THE USE OF PNUEMATIC NAIL
- GUNS MAY BE USED PROVIDED (1) NAIL IS INSTALLED FOR EVERY OVERDRIVEN NAIL (THOSE SUNK > 1/8" INTO SHEATHING). THE USE OF STAPLES IS PROHIBITED. ALL EXTERIOR WALLS SHALL BE SHEATHED ON BOTH FACES WITH GYP-BOARD SHEATHING (SEE
- ARCH. DWGS. FOR THICKNESS) AND CONNECTED WITH 5d COOLER NAILS SPACED 7" O/C AT SUPPORTED PANEL EDGES AND INTERMEDIATE SUPPORTS.
- PROVIDE 2x BLOCKING AT UNSUPPORTED PANEL EDGES AS FOLLOWS: ROOFS AND FLOORS ONLY WHERE INDICATED ON PLAN WALLS - PER THE SHEAR WALL SCHEDULE ON SHEET S1.2.

10.0 WOOD FRAMING NOTES:

- ALL WOOD FRAMING MATERIAL SHALL BE CONTENT. ALLOWABLE STRESS REQUIRE THE U RATING AS NOTED BELOW
- ALL STUD AND WALL FRAMING SHALL BE E A. NO. 2 GRADE SOUTHERN YELLOW P B. NO. 2 GRADE SPRUCE-PINE-FIR (SPI
- ALL JOIST, RAFTER & MISC. FRAMING SHA
- (OR METAL) BRIDGING AT MIDSPAN AND AT ALL FRAMING EXPOSED TO THE WEATHER BE PRESSURE-TREATED IN ACCORDANCE SPECIFICATIONS. WHERE POSSIBLE, ALL C
- TREATMENT, CUTS AND HOLES DUE TO O COPPER NAPHTHENATE SOLUTION CONTA (PER AWPA STD. M4). THE CONTRACTOR SHALL CAREFULLY SEL
- THE LENGTH OF SPLIT ON THE WIDE FACE TO LESS THAN 1/2 OF THE WIDE FACE DIM (NOMINAL) AND THICKER LUMBER SHALL I 6. ALL NAILING NOT OTHERWISE INDICATED S
- ON SHEET S1.1. NAILING SHALL NOT BE ON PROVIDE DOUBLE JOISTS UNDER ALL PART
- ALL CONCENTRATED LOADS FROM FRAMIN PROVIDE HEADER BEAMS OF THE SAME SI
- IN THE PLYWOOD DECK UNLESS OTHERWIS 9. STRUCTURAL STEEL PLATE CONNECTORS 1/4" THICK UNLESS OTHERWISE INDICATED ASTM A-307 AND BE 3/4" DIAMETER UNLES
- 10. BOLT HOLES SHALL BE CAREFULLY CENTE THE BOLT DIAMETER. BOLTED CONNECTION CRUSHING WOOD UNDER WASHERS.
- PREFABRICATED "MICRO-LAM" LUMBER HEADERS AND BEAMS SHALL BE AS MANUFACTURED BY MANUFACTURER'S APPROVAL
- 12. PREFABRICATED METAL JOIST HANGERS, HURRICANE CLIPS, HOLD-DOWN ANCHORS AND OTHER ACCESSORIES SHALL BE AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY". GRADE A) AND BE GALVANIZED (COATING G60).
- 13. HOLES AND NOTCHES DRILLED OR CUT INTO WOOD FRAMING SHALL NOT EXCEED THE REQUIREMENTS OF N.C.B.C. 2018
- SHALL BE HOT DIP GALVANIZED.

ALL WOOD FRAMING MATERIAL SHALL BE SURFACED DRY AND USED AT 19% MAXIMUM MOISTURE CONTENT. ALLOWABLE STRESS REQUIREMENTS OF ALL MATERIAL SHALL BE IN ACCORDANCE WITH THE U RATING AS NOTED BELOW
ALL STUD AND WALL FRAMING SHALL BE EITHER OF THE FOLLOWING: A. NO. 2 GRADE SOUTHERN YELLOW PINE (SYP) B. NO. 2 GRADE SPRUCE-PINE-FIR (SPF)
ALL JOIST, RAFTER & MISC. FRAMING SHALL BE NO. 2 GRADE, SOUTHERN PINE. PROVIDE FULL-DEPTH (OR METAL) BRIDGING AT MIDSPAN AND AT A MAXIMUM SPACING OF 8' -0" O/C IN BETWEEN.
ALL FRAMING EXPOSED TO THE WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE-TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION SPECIFICATIONS. WHERE POSSIBLE, ALL CUTS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT. CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WTIH 2 COATS OF COPPER NAPHTHENATE SOLUTION CONTAINING A MINIMUM OF 2% METALLIC COPPER IN SOLUTION (PER AWPA STD. M4).
THE CONTRACTOR SHALL CAREFULLY SELECT LUMBER TO BE USED IN LOADBEARING APPLICATIONS. THE LENGTH OF SPLIT ON THE WIDE FACE OF 2" NOMINAL LOADBEARING FRAMING SHALL BE LIMITED TO LESS THAN 1/2 OF THE WIDE FACE DIMENSION. THE LENGTH OF SPLIT ON THE WIDE FACE OF 3" (NOMINAL) AND THICKER LUMBER SHALL BE LIMITED TO 1/2 OF THE NARROW FACE DIMENSION.
ALL NAILING NOT OTHERWISE INDICATED SHALL BE IN ACCORDANCE WITH THE "NAILING SCHEDULE" ON SHEET S1.1. NAILING SHALL NOT BE OVERDRIVEN.
PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS WHICH RUN PARALLEL WITH JOISTS AND UNDER ALL CONCENTRATED LOADS FROM FRAMING ABOVE.
PROVIDE HEADER BEAMS OF THE SAME SIZE AS JOISTS OR RAFTERS TO FRAME AROUND OPENINGS IN THE PLYWOOD DECK UNLESS OTHERWISE INDICATED.
STRUCTURAL STEEL PLATE CONNECTORS SHALL CONFORM TO ASTM A-36 SPECIFICATIONS AND BE 1/4" THICK UNLESS OTHERWISE INDICATED. BOLTS CONNECTING WOOD MEMBERS SHALL BE PER ASTM A-307 AND BE 3/4" DIAMETER UNLESS OTHERWISE INDICATED. PROVIDE WASHERS FOR ALL BOLT HEADS AND NUTS IN CONTACT WITH WOOD SURFACES.
BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. BOLTED CONNECTIONS SHALL BE SNUGGED TIGHT BUT NOT TO THE EXTENT OF

"TRUSS JOIST MacMILLAN CORP.", BOISE, IDAHO OR APPROVED EQUAL MICRO-LAM MATERIAL SHALL BE 2.0E, SOUTHERN PINE. DO NOT CUT OR NOTCH MICRO-LAM MATERIAL WITHOUT THE

(TEL 800-999-5099), OR APPROVED EQUAL, INSTALL ALL ACCESSORIES PER THE MANUFACTURER'S REQUIREMENTS. ALL STEEL SHALL HAVE A MINIMUM THICKNESS OF 0.04 INCHES (PER ASTM A446,

14. ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS HARDWARE

1.	.0 PRE-ENGINEERED WO	DOD TRUSS NOT	ES:
1. A:	WOOD TRUSSES SHALL BE DESIGN MINIMUM GRAVITY LOADING:	ED BY THE MANUFACTUR	ER TO SUPPORT THE FOLLOWING LOADS:
	ROOF TRUSSES	F	LOOR TRUSSES
	TOP CHORD LIVE LOAD:	20 PSF	40 PSF
	DEAD LOAD:	8 PSF	15 PSF
	BOTTOM LIVE LOAD:		
	DEAD LOAD:	10 PSF	5 PSF
B:	WIND LOADING CASE:	(PER N.C.B.C. 2002, SECT NOTES' FOR WIND COMP	FION 1609.8) SEE 'DESIGN CRITERIA PONENT CRITERIA
	TOP CHORD LOADING:	ON THE SURFACE AREA	
	NET UPLIFT:	P - (TOP CHORD DL X .67	
			VITH Gp PER BOCA FIG. 1609.8.1(2)
	BOTTOM CHORD LOADING:	ON THE SURFACE AREA	
		NET UPLIFT:	N 07)
		P - (BOTTOM CHORD DL)	,
		P - PVA IAKNA (GUDI)	WITH GPI AS NOTED HEREIN
2			

APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION OF THE NATIONAL FOREST PRODUCTS ASSOCIATION, THE DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES OF THE TRUSS PLATE INSTITUTE AND N.C.B.C 2303.4

- 8. WOOD MATERIALS SHALL BE SOUTHER PINE, DOUGLAS FIR OR LARCH AND SHALL BE KILN DRIED AND USED AT 19% MAXIMUM MOISTURE CONTENT. PROVIDE GRADE NO. 2 OR AS REQUIRED TO SATISFY STRESS REQUIREMENTS.
- 4. CONNECTOR PLATES SHALL BE NOT LESS THAN 0.036 INCHES (20 GAUGE) IN COATED THICKNESS, SHALL MEET OR EXCEED ASTM GRADE A OR HIGHER AND SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A-525 (COATING G60). MINIMUM STEEL YIELD STRESS SHALL BE 33,000 PSI.
- 5. TRUSSES SHALL BE FABRICATED IN A PROPERLY EQUIPPED MANUFACTURING FACILITY OF A PERMANENT NATURE. TRUSSES SHALL BE MANUFACTURED BY EXPERIENCED WORKMEN, USING PRECISION CUTTING, JIGGING AND PRESSING EQUIPMENT UNDER THE REQUIREMENTS IN QUALITY CONTROL STANDARD QST-88 OF THE TRUSS PLATE INSTITUTE.
- 6. SECONDARY BENDING STRESSES IN TRUSS TOP AND BOTTOM CHORDS DUE TO DEAD, LIVE AND WIND LOADS SHALL BE CONSIDERED IN THE DESIGN. LOAD DURATION FACTORS SHALL BE PER THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION".
- WOOD TRUSSES SHALL BE ERECTED IN ACCORDANCE WITH THE TRUSS MANUFACTURER'S REQUIREMENTS. THIS WORK SHALL BE DONE BY A QUALIFIED AND EXPERIENCED CONTRACTOR. TRUSS ERECTION BY AN INEXPERIENCED OR NON-QUALIFIED CONTRACTOR CAN RESULT IN CONSTRUCTION COLLAPSE AND/OR SERIOUS INJURY AND DAMAGE.
- 8. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED FOR SAFE ERECTION AND PERFORMANCE OF THE TRUSSES. THE GUIDELINES SET FORTH BY THE TRUSS PLATE INSTITUTE PUBLICATION "HIB-91, COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES" SHALL BE A MINIMUM REQUIREMENT
- 9. TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED NOR OTHERWISE ALTERED IN ANY WAY WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- SUBMIT COMPLETE SHOP DRAWINGS FOR ALL WOOD TRUSSES SHOWING MEMBER SIZES, SPECIES, GRADE, MOISTURE CONTENT, SPAN, CAMBER, DIMENSIONS, CHORD PITCH, BRACING REQUIREMENTS AND LOADINGS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AND SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN
- 11. SEE THE "SCISSOR TRUSS NOTE" FOR ADDITIONAL REQUIREMENTS.

12.0	) LA	MINATED VENEER LUMBE	R (LVL) NOTES:
1.		MIT MANUFACTURER'S DESCRIPTIVE LITI KNESS, DIMENSIONS, LOADING AND FAB	ERATURE INDICATING MATERIAL COMPOSITI RICATION DETAILS.
2.			CATING INSTALLATION DETAILS. INCLUDE LC ING AND CUTTING FOR WORK BY OTHERS.
3.	A. B. C. D.	BASIS OF DESIGN IS PER 2.0E GP LAM HA QUALIFIED TO ASTM D 5456 BY APA- TH MODULUS OF ELASTICITY SHEAR MODULUS OF ELASTICITY FLEXURAL STRESS HORIZONTAL SHEAR COMPRESSION PERP. TO GRAIN	E ENGINEERED WOOD ASSOCIATION. E = 2.0 x 10 PSI G = 0.125 x 10 PSI Fb = 2,900 PSI
4.		VER MATERIALS TO THE JOB SITE IN MAI BUNDLES WITH MANUFACTURER'S IDEN	NUFACTURER'S ORIGINAL PACKAGING, CONT TIFICATION INTACT AND LEGIBLE.
5.	EXPO		T AGAINST CONTACT WITH DAMP AND WET ( MAGE. PROVIDE AIR CIRCULATION UNDER (
6.		EPT FOR CUTTING TO LENGTH, GP LAM L IOTCHED, EXCEPT AS NOTED IN MANUFA	VL BEAMS AND HEADERS SHALL NOT BE CU CTURER'S LITERATURE.

- PROVIDE GP LAM LVL BEAMS AND HEADERS WHERE INDICATED ON DRAWINGS USING HANGERS AND ACCESSORIES SPECIFIED.
- INSTALL GP LAM LVL BEAMS AND HEADERS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

res:

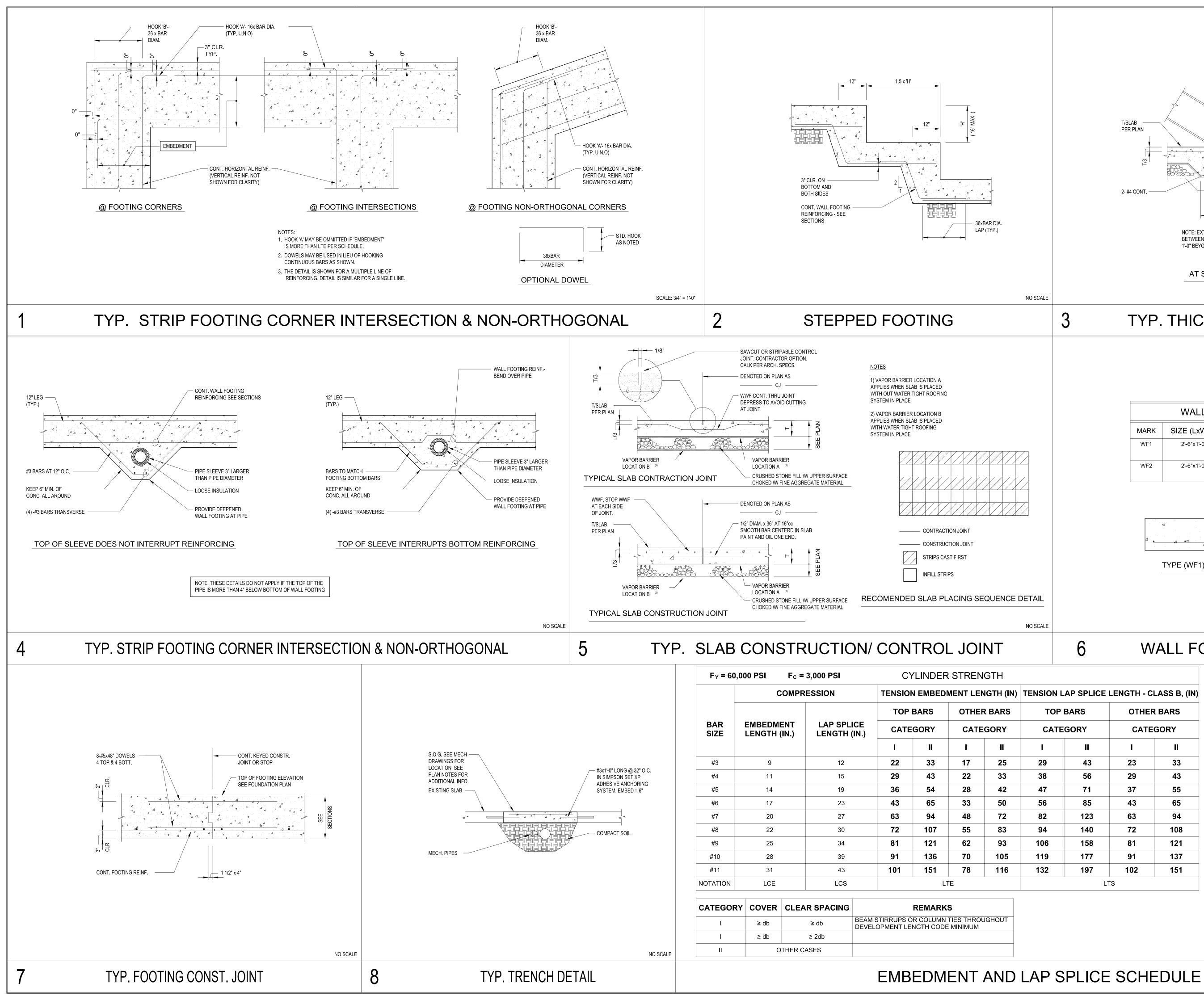
TING MATERIAL COMPOSITION, TION DETAILS. INCLUDE LOCATIONS

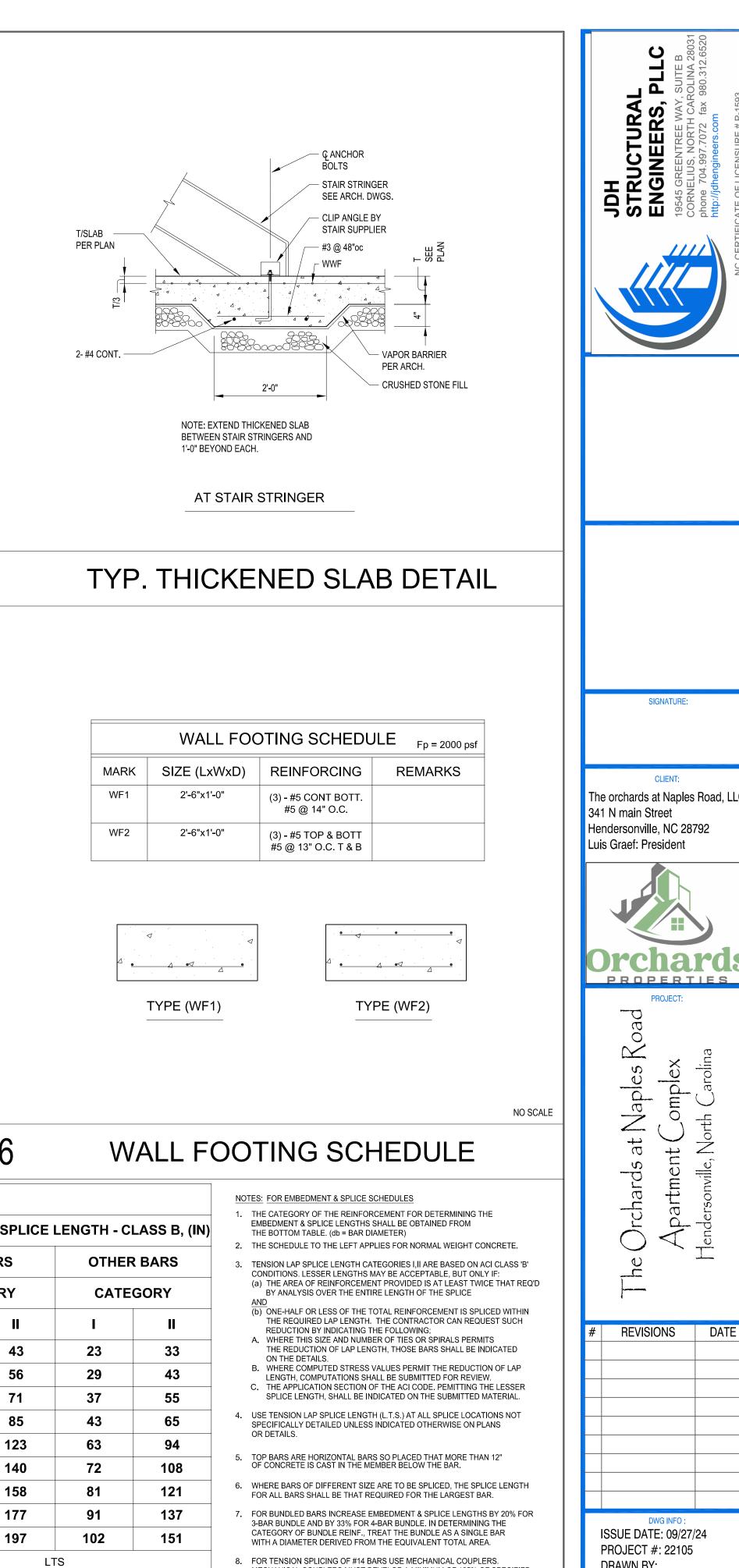
RIGINAL PACKAGING, CONTAINERS FAND LEGIBLE.

ACT WITH DAMP AND WET SURFACES, AIR CIRCULATION UNDER COVERING

EADERS SHALL NOT BE CUT, DRILLED TURE.







FOR TENSION SPLICING OF #14 BARS USE MECHANICAL COUPLERS. MECHANICAL COUPLERS MUST DEVELOP A MINIMUM OF 125% OF SPECIFIED YIELD STRENGTH (fy)OF BAR. WHEN REINFORCING BARS ARE EPOXY-COATED, THE VALUE FOR TENSION

DRAWN BY:

CHECKED BY:

TYPICAL DETAILS

DWG DECRIPTION :

SHEET #

S-1.00

EMBEDMENT AND LAP SPLICE LENGTHS FOR TOP BARS SHALL BE INCREASED BY 30% AND THE VALUES FOR THE OTHER BARS SHALL BE INCREASED BY 50% 10. SPLICE LENGTHS SHALL BE DIMESIONED AT ALL LOCATIONS ON ALL

SHOP DRAWINGS.

6

VV	ALL STUD	) SCHEDULE			FAS	STENING REC	UIREM
ARK	LEVEL	STUDS	SPACING		PIECES IN MEMBER	MAX. SPAN	N/ 16d C
B NOTES	- ROOF	2 x 6 SPF NO. 2	24" O.C.			20'	2 ROWS
	B - 1	(3)2 x 4 SPF NO. 2	24" O.C.		2	30'	3 ROWS
2	1 - 3	(2)2 x 4 SPF NO. 2	24" O.C.		3 -	15'	2 ROWS
	3 - ROOF	2 x 4 SPF NO. 2	24" O.C.		ى ا	22'-6"	3 ROWS
N3	1 - ROOF	2 x 4 SPF NO. 2	24" O.C.		4	-	N
					-	-	N
	S, ETC. NOTES SPRUCE-PI	O ON ARCH DWGS. TO A	ACCOMMODATE		NOTES:		
PF DE RACE RACE	AT 1/3 POINTS. AT MID-POINT.	NE-FIR. REQUIRED WHERE WA	ALL TYPE IS WITH	AR	<ol> <li>BOLT HOLE</li> <li>BOLT HOLE</li> <li>WASHERS</li> <li>OUTERMOS</li> <li>OUTSIDE F.</li> <li>FOR THREE</li> </ol>	OTTOM ROWS OF CON ES ARE TO BE THE SAM ES ARE EXTEND THROL UNDER HEAD AND NUT ST OF THE HEAD MAY N ACE OF THE LVL MEME E-PIECE MEMBER, SPEC MEMBERS, REGARDLE	E DIAMETER / JGH THE FULL CARRIAGE E NOT BE DRAW BER. CIFIED NAILIN

# WALL STUD SCHEDULE

CLEAR OPENING	ONE ANGLE FOR EA. 4" FOR 4", 8" & 12" WALLS	6" WALL	10" WALL	MIN. BRG.		
0'-8" TO 3'-4"	L 3 1/2 x 3 1/2 x 1/4	WT 5 x 6	(2) L 4 x 4 x 1/4	4"		
3'-4" TO 5'-4"	L 4 x 3 1/2 x 1/4 (LLV)	WT 5 x 6	(2) L 4 x 4 x 5/16	6"		
5'-4" TO 7'-4"	L 5 x 3 1/2 x 5/16 (LLV)	WT 7 x 11	(2) L 6 x 4 x 1/4 (LLV)	8"	4" NOMINAL WYTHE	6" NOMINA WYTHE
7'-4" TO 10'-0"	L 6 x 3 1/2 x 5/16 (LLV)	WT 7 x 13	(2) L 6 x 4 x 5/16 (LLV)	8"		

NOTES:

1. WHERE LINTELS BEAR ON HOLLOW MASONRY UNITS FILL ALL CORES UNDER BEARING WITH GROUT FROM BOTTOM OF LINTEL TO 16" MIN. BELOW LINTEL.

2. THESE LINTELS ARE NOT DESIGNED FOR LINTELS THAT CARRY FLOOR LOAD.

3. ALL LINTELS ARE GALVANIZED UNLESS NOTED OTHERWISE

5

# STEEL LINTEL SCHEDULE

2

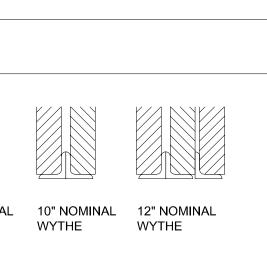
ND JOIST TO SILL OR TOP PLATE, TOE NAIL	8d	6" o.c.
IST TO BAND JOIST, FACE NAIL	16d COMMON	3
IST TO SILL OR GIRDER, TOE NAIL	8d COMMON	3
RIDGING TO JOIST, TOE NAIL EACH END	8d COMMON	2
EDGER STRIP	16d COMMON	3 AT EACH JOIST
OR LESS SUBFLOOR TO EACH JOIST, FACE NAIL	8d COMMON	2
/ER 1x6 SUBFLOOR TO EACH JOIST, FACE NAIL	8d COMMON	3
NCH SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	16d COMMON	2
LE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d COMMON	16" O.C.
DP OR SOLE PLATE TO STUD, END NAIL	16d COMMON	2
TUD TO SOLE PLATE, TOE NAIL	8d COMMON	4
OUBLED STUDS, FACE NAIL	10d COMMON	24" O.C.
OUBLED TOP PLATES, FACE NAIL	10d COMMON	16" O.C.
OP PLATES, LAP AND INTERSECTIONS, FACE NAIL	16d COMMON	2
ITINUOUS HEADER, TWO PIECES	16d COMMON	16" O.C. ALONG EDGE
EILING JOISTS TO PLATE, TOENAIL	8d COMMON	3
ITINUOUS HEADER TO STUD, TOENAIL	8d COMMON	4
LING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	16d COMMON	3
ING JOISTS TO PARALLEL RAFTERS, FACE NAIL	16d COMMON	3
FTER TO PLATE, TOE NAIL	8d COMMON	3
ICH BRACE TO EACH STUD AND PLATE, FACE NAIL	8d COMMON	2
IDER THAN 1x8 SHEATHING TO EACH BEARING, FACE NAIL	8d COMMON	3
JILT-UP CORNER STUDS	16d COMMON	24" O.C.
JILT-UP GIRDER OR BEAMS, THREE MEMBERS	20d COMMON	32" O.C. TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
PLANKS, AT EA. BEARING	16d COMMON	2
OLLAR TIE TO RAFTER, FACE NAIL	10d COMMON	3
ACK RAFTER TO HIP, TOE NAIL R FACE NAIL	10d COMMON 16d COMMON	3 2
OOF RAFTER TO 2-by RIDGE BEAM, TOE NAIL R FACE NAIL	16d COMMON 16d COMMON	2 2
DIST TO BAND JOIST, FACE NAIL	16d COMMON	3

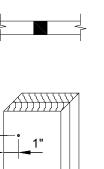
# NAIL FASTENER SCHEDULE

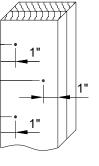
### IENTS FOR MULTIPLE MEMBERS NAILED COMMON NAILED 16d COMMON MAX. SPAN 2 ROWS AT 24" oc STAGGER AT 12" VS AT 12" oc 20' VS AT 12" oc 40'-6" 2 ROWS AT 12" oc 2 ROWS AT 24" oc STAGGER AT 12" VS AT 12" oc 15' VS AT 12" oc 2 ROWS AT 12" oc 30' 2 ROWS AT 24" oc STAGGER AT 12" N/A 13'-6" 27' N/A 2 ROWS AT 12" oc SHALL BE 2" FROM EDGE R AS THE BOLT. EVERY BOLT MUST LL THICKNESS OF THE MEMBER. USE E BOLTS MAY BE USED, BUT THE WN IN BEYOND FLUSH WITH THE ING IS FROM EACH SIDE. TH, MUST BE BOLTED.

# \_E MEMBERS

# FASTENING REQUIREMENTS





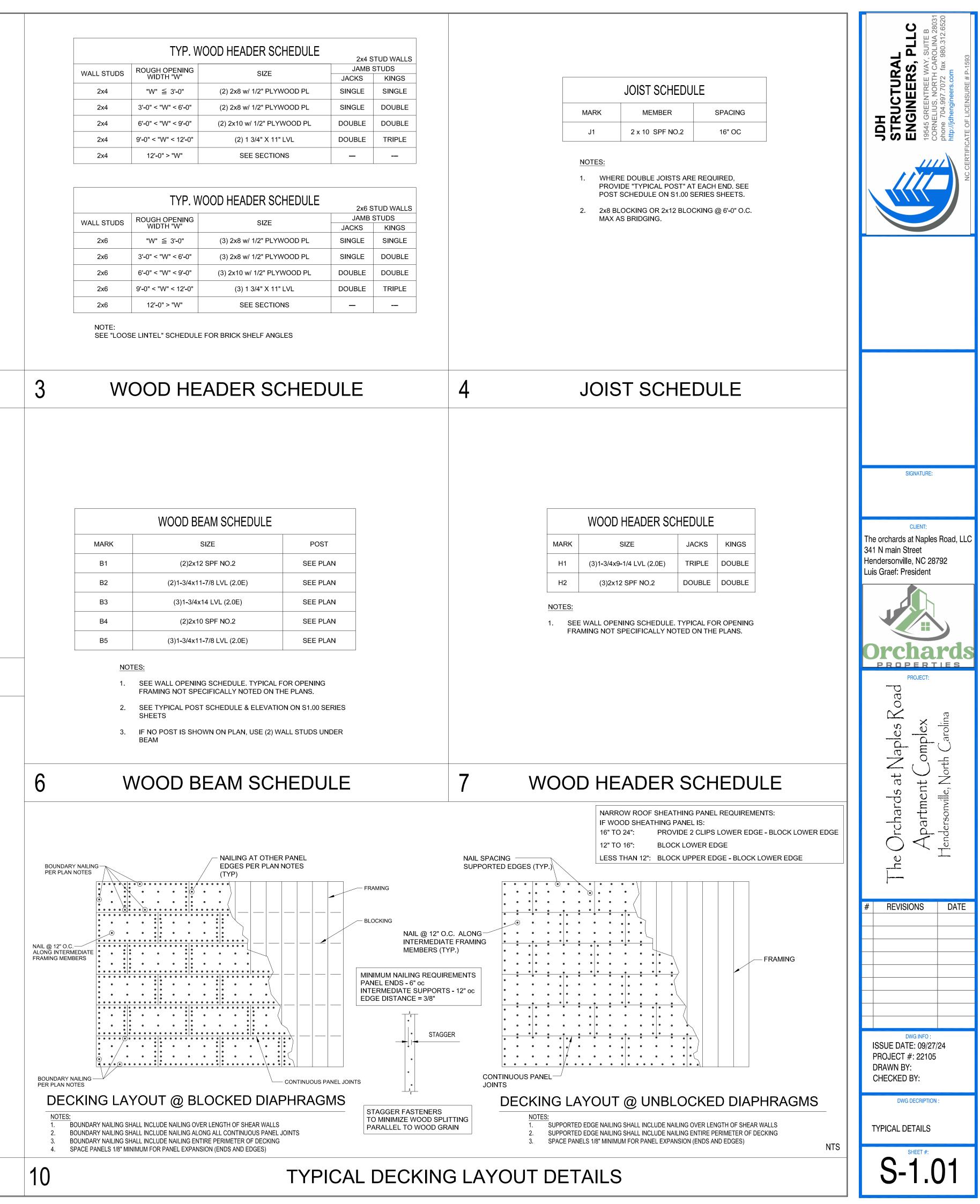


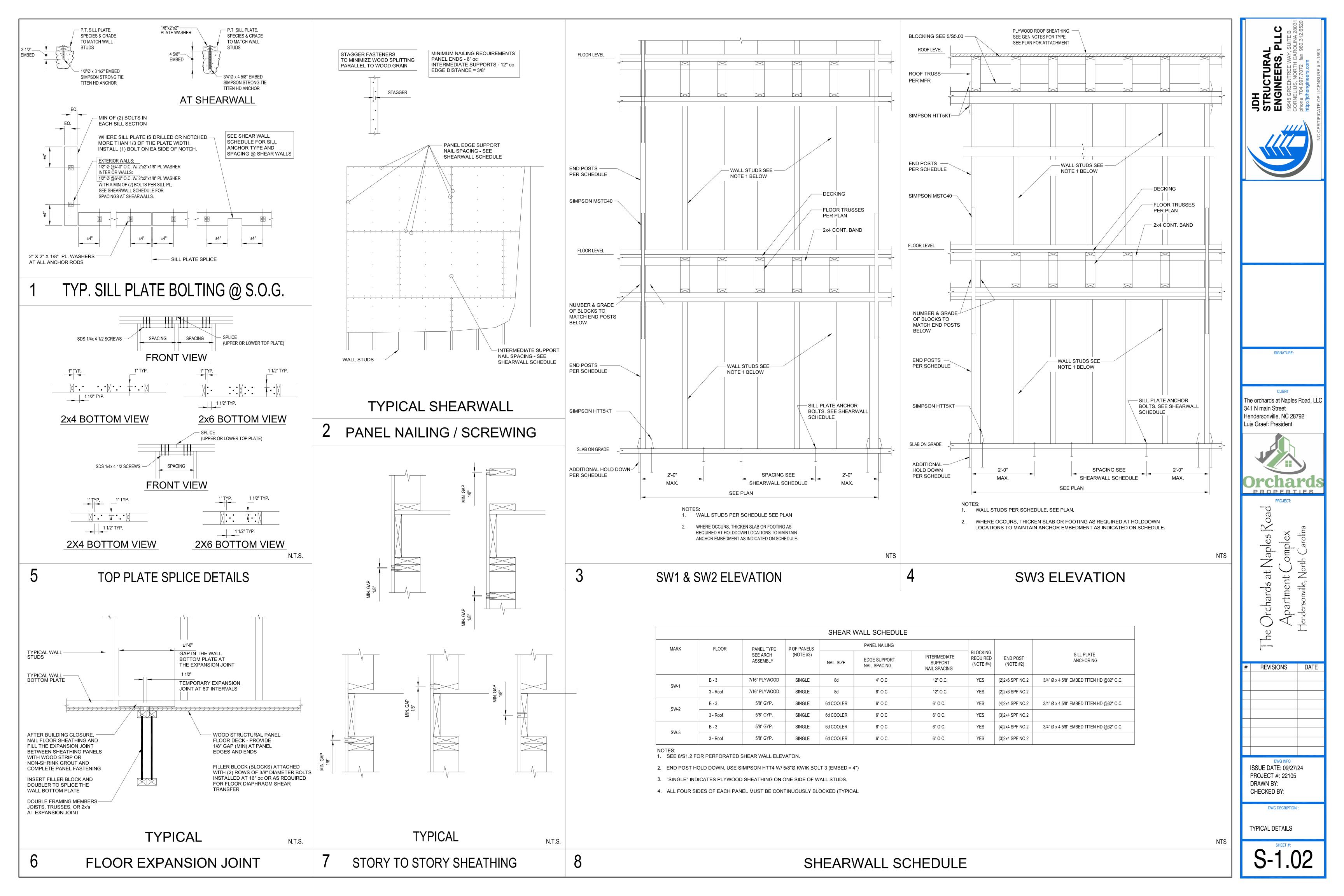
POST SCHEDULE

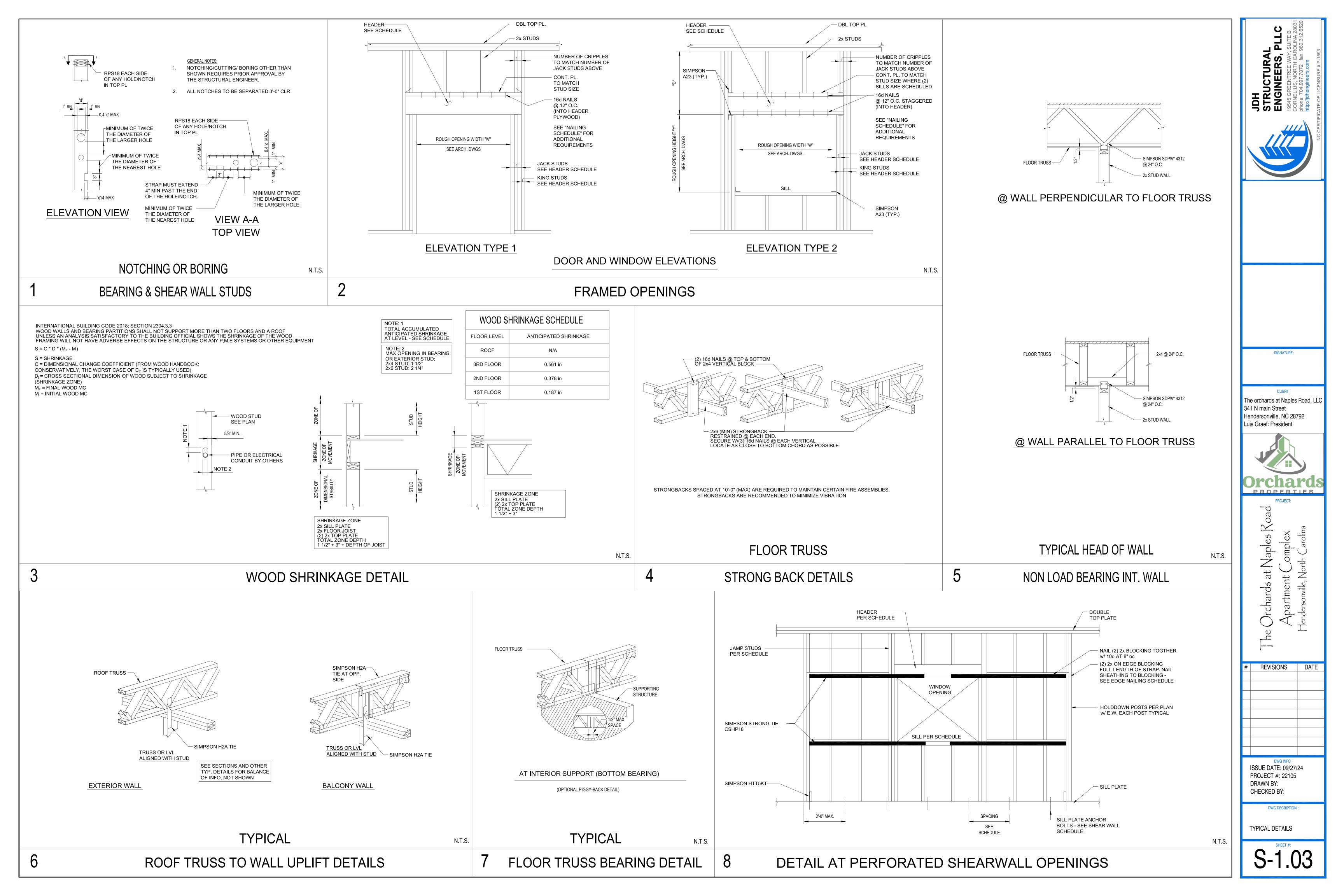
	2x4 S	TUD WAL		
WALL STUDS	ROUGH OPENING	917E	JAMB	STUDS
VALL STUDS	TUDS WIDTH "W" SIZE		JACKS	KINGS
2x4	"W" ≦ 3'-0"	(2) 2x8 w/ 1/2" PLYWOOD PL	SINGLE	SINGL
2x4	3'-0" < "W" < 6'-0"	(2) 2x8 w/ 1/2" PLYWOOD PL	SINGLE	DOUBL
2x4	6'-0" < "W" < 9'-0"	(2) 2x10 w/ 1/2" PLYWOOD PL	DOUBLE	DOUBL
2x4	9'-0" < "W" < 12'-0"	(2) 1 3/4" X 11" LVL	DOUBLE	TRIPLI
2x4	12'-0" > "W"	SEE SECTIONS	_	

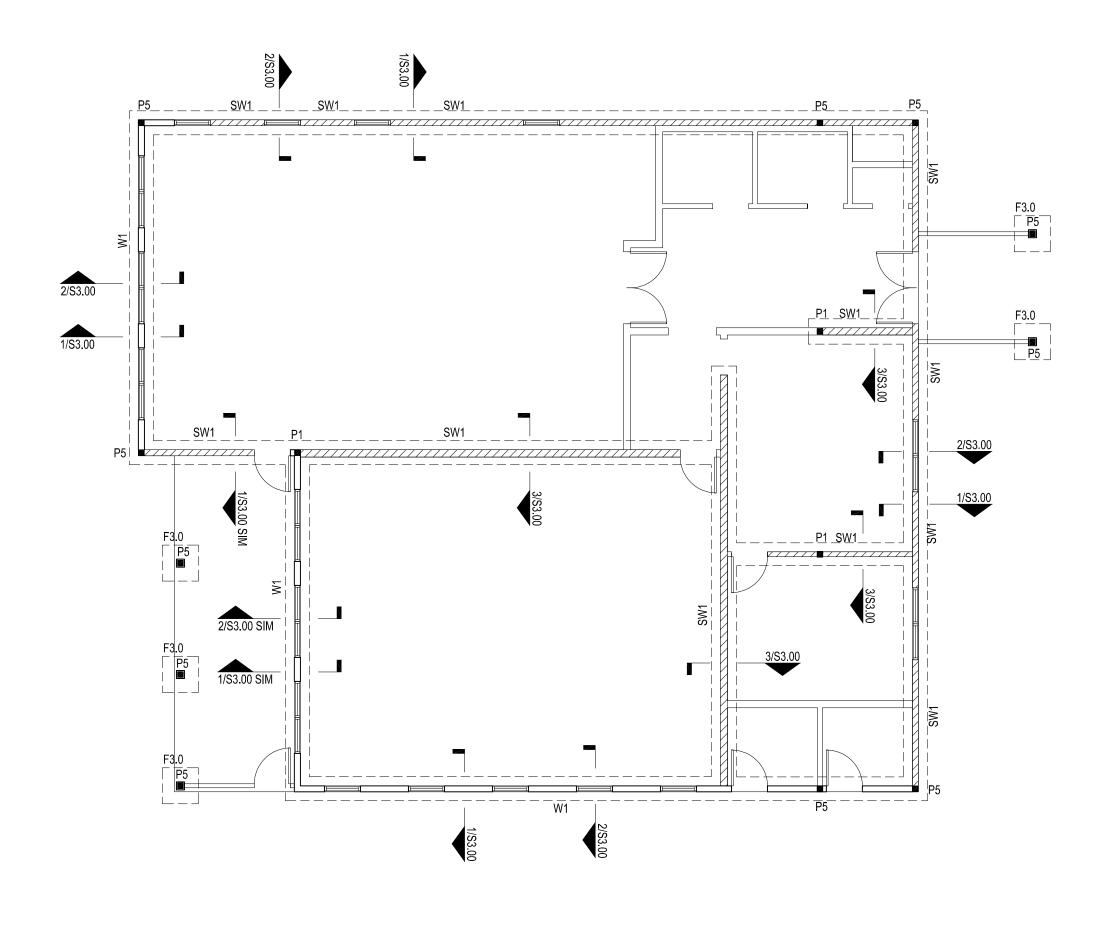
TYP. WOOD HEADER SCHEDULE 2x6 STUD WALLS						
WALL STUDS	ROUGH OPENING	SIZE	JAMB STUDS			
WALL STODS	WIDTH "W"	SIZE	JACKS	KINGS		
2x6	"W" ≦ 3'-0"	(3) 2x8 w/ 1/2" PLYWOOD PL	SINGLE	SINGLE		
2x6	3'-0" < "W" < 6'-0"	(3) 2x8 w/ 1/2" PLYWOOD PL	SINGLE	DOUBLE		
2x6	6'-0" < "W" < 9'-0"	(3) 2x10 w/ 1/2" PLYWOOD PL	DOUBLE	DOUBLE		
2x6	9'-0" < "W" < 12'-0"	(3) 1 3/4" X 11" LVL	DOUBLE	TRIPLE		
2x6	12'-0" > "W"	SEE SECTIONS	_			

WOOD BEAM SCHEDULE						
MARK	SIZE	POST				
B1	(2)2x12 SPF NO.2	SEE PLAN				
B2	(2)1-3/4x11-7/8 LVL (2.0E)	SEE PLAN				
В3	(3)1-3/4x14 LVL (2.0E)	SEE PLAN				
B4	(2)2x10 SPF NO.2	SEE PLAN				
B5	(3)1-3/4x11-7/8 LVL (2.0E)	SEE PLAN				









# FOUNDATION PLAN

FOUNDATION PLAN NOTES:

SCALE: 1/8" = 1'-0"

## LEGEND:

- SW\* 1. ZZZZZ INDICATES SHEAR WALL LOCATION AND LABEL
- 2. \_\_\_\_\_ INDICATES LOAD BEARING WALL AND LABEL
- 3. INDICATES NON-STRUCTURAL WALL
- 4. \_\_\_\_\_ INDICATES LOAD BEARING WALL BELOW

- 8. "Bx" INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON \$1.00 SERIES SHEETS
- 9. \_\_\_\_\_ INDICATES WOOD POST LABEL, SEE S1.05 FOR SCHEDULE AND DETAIL.
- 1. ELEVATIONS FOR FOOTINGS, SLABS, STEEL, WALLS, FLOORS, ELEVATOR PITS, ETC. ARE REFERENCED + OR - FROM DATUM ELEVATION ON SHEET S2.02 (I.E. T/SL +2'-6", T/W -5'-3", T/STL -6 1/4", ETC ).
- 2. T/FTG ELEVATIONS SHOWN ON PLAN ARE FOR STRIP AND SPREAD FOOTINGS. T/FTG ELEVATION AROUND PERIMETER SHALL BE -2'-0" U.N.O. WITH FOOTING STEPS SHOWN IN RELATIVE LOCATIONS. SEE S1.00 SERIES SHEETS " TYPICAL DETAILS " FOR FOOTING STEP AND SPACING REQUIREMENTS.
- 3. TYPICAL SLAB ON GRADE (S.O.G.) IS 4" NORMAL WEIGHT CONCRETE REINFORCED WITH 6x6-W1.4xW1.4 WWF (FLAT SHEETS) ON 6" CRUSHED STONE BASE. SEE ARCHITECTURAL DRAWINGS FOR VAPOR BARRIER REQUIREMENTS. SEE S2.00 FOR SLAB CONTROL JOINT LAYOUT.
- 4. SUPPORT WWF AT 1" FROM TOP OF S.O.G. WITH SAND PLATES (CHAIRS WITH PLATE BASES) OR OTHER ACCEPTABLE DEVICES. BRICKS ARE NOT PERMITTED.
- 5. NO UNDERCUTTING AND BACKFILLING IS PERMITTED UNDER ANY FOOTING DUE TO HIGH ALLOWABLE BEARING PRESSURES USED IN FOOTING DESIGN. LEAN CONCRETE (fc= 2000psi) OR FOOTING CONCRETE SHALL BE USED TO "BACKFILL" ANY OVEREXCAVATION.
- 6. CONTRACTOR SHALL SHORE ALL WALLS RECEIVING BACKFILL ON ONLY ONE SIDE OR RECEIVING UNEQUAL LEVELS OF BACKFILL ON OPPOSITE SIDES, UNLESS NOTED OTHERWISE IN THE DETAILS. ANY WALLS FOR WHICH SHORING IS INDICATED AS REQUIRED IN THE PLANS OR DETAILS SHALL BE SHORED REGARDLESS OF BACKFILL CONDITIONS.
- 7. W1 TYP U.N.O., WF1 TYP U.N.O., SEE 8/S-1.02 FOR SHEARWALLS W/ OPENINGS.
- 8. ALL STUDS TO ALIGN W/ TRUSSES

- MASONRY.
- DETAIL.

9. DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O. 10. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON- STRUCTURAL

11. SEE S1.00 SERIES SHEETS FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS". TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT

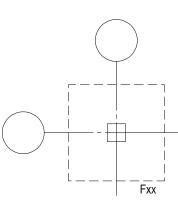
12. SEE S1.00 SERIES SHEETS FOR FOOTING SCHEDULE.

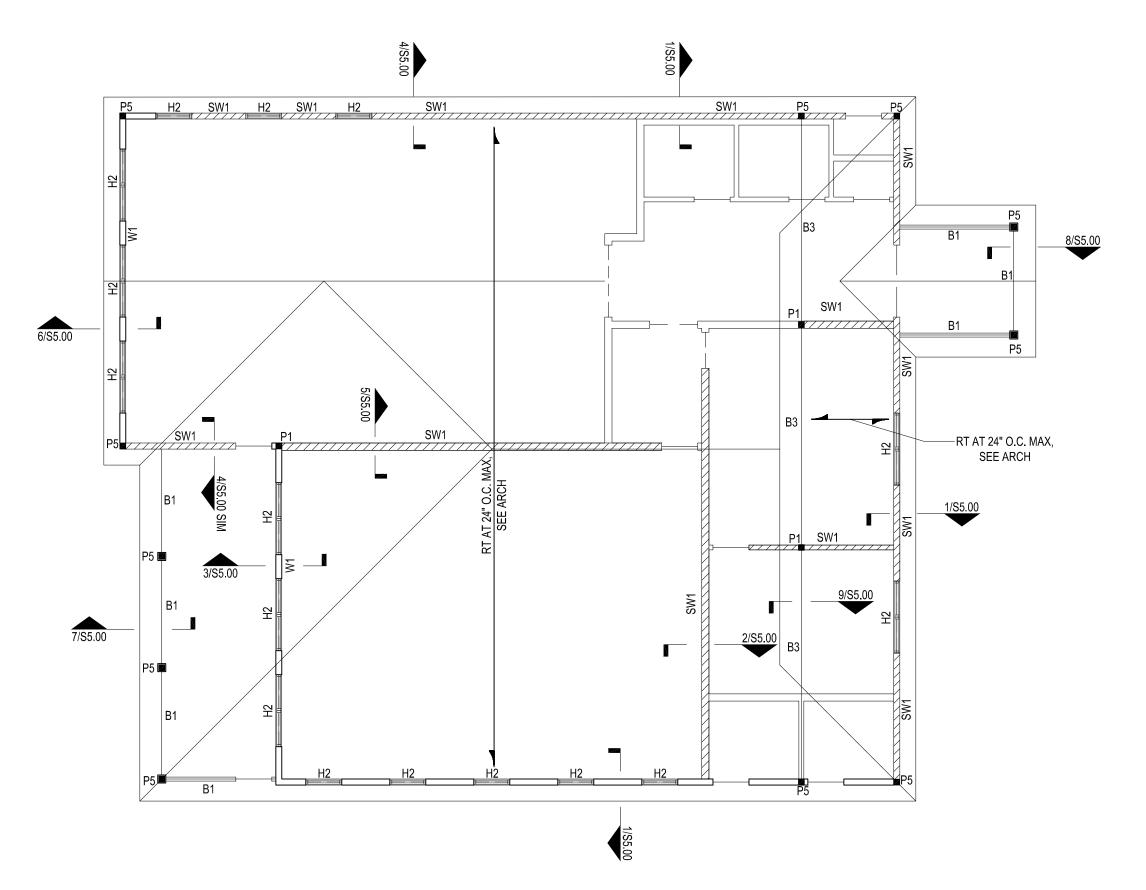
13. SEE S1.00 SERIES SHEETS FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.

14. ALL STRUCTURAL WALLS SHOWN ARE TYPE " W1 " U.N.O.

15. FOOTINGS ARE NOTED ON PLAN WITH THE FOLLOWING DESIGNATIONS:

Fxx = FOOTING MARK PER SCHEDULE ON S1.00





# ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

### ROOF FRAMING PLAN NOTES:

1. SEE PLAN FOR TRUSS BEARING ELEVATION, U.N.O. ON PLAN AS (+X'-X") OR (-X'-X") AS REFERENCED FROM NOMINAL DATUM. 13. SEE 3/S1.03 FOR TYPICAL DECKING LAYOUT DETAILS, USE UNBLOCKED DIAPHRAGM U.N.O.

- 2. WOOD TRUSS FABRICATOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONAL INFORMATION.
- 3. TYPICAL ROOF DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD SHEATHING. ATTACH PER GENERAL NOTES ON S1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.
- 4. WHERE AVAILABLE, DIMENSIONS AND LOCATIONS FOR OPENINGS ARE SHOWN ON THE LOWEST LEVEL ON WHICH THE OPENING FIRST OCCURS AND ON SUBSEQUENT LEVELS WHERE DIMENSIONS OR LOCATIONS VARY.

5. SHEATH REMAINING LENGTH OF WALL (BEYOND MIN. SHEAR WALL LENGTH AS PER SCHEDULE) WITH EQUIVALENT NON-SHEAR WALL SHEATHING THICKNESS AND GWB PER ARCH. DWGS. ATTACH NON-SHEAR WALL SHEATHING WITH 10d NAILS @ 16" O.C.

6. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY.

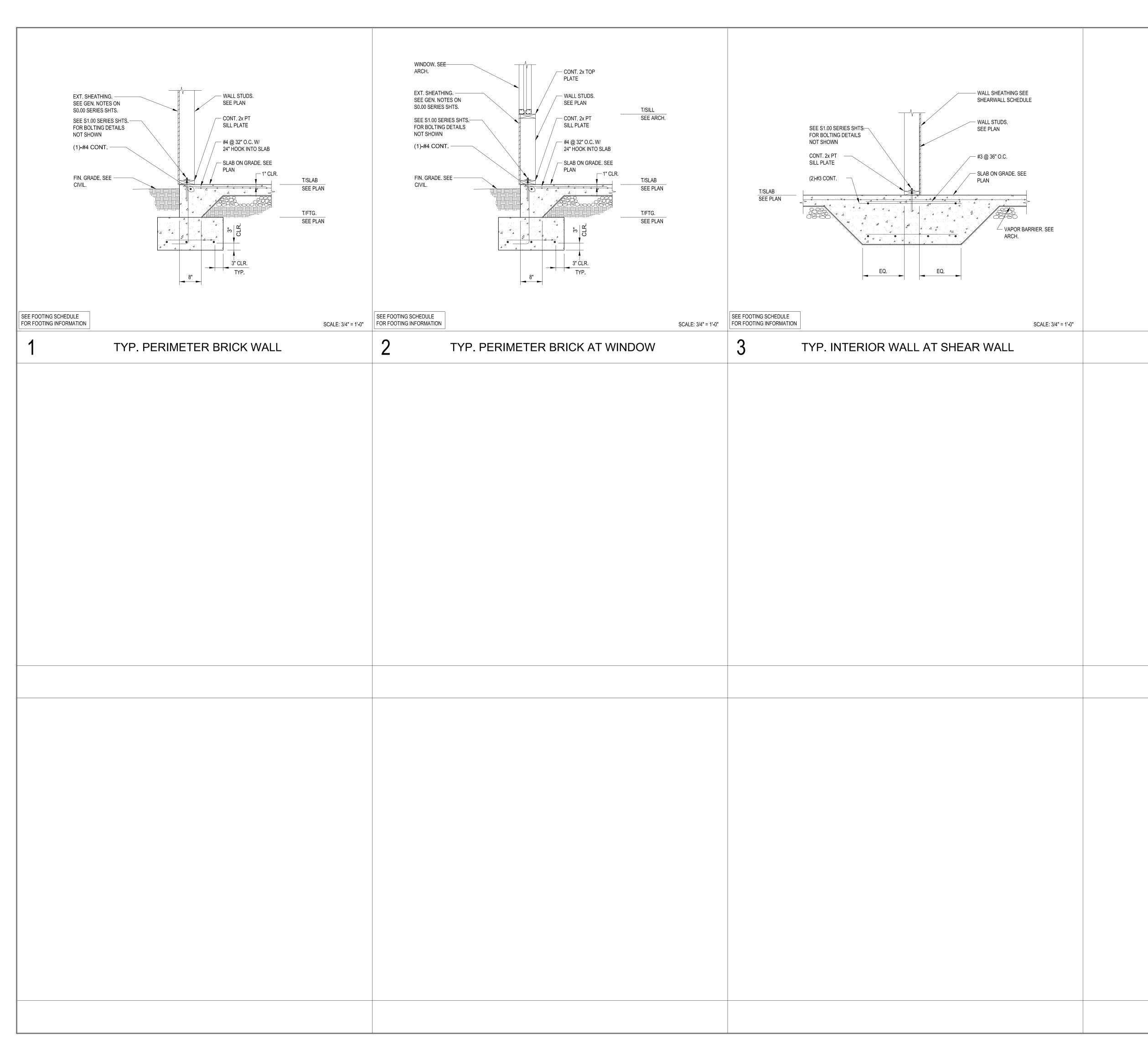
7. SEE S1.00 SERIES SHTS. FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS". TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.

- 8. SEE S1.00 SERIES SHTS. FOR SHEAR WALL INFORMATION.
- 9. SEE S1.00 SERIES SHEETS FOR WOOD JOIST AND ALL BEAM SCHEDULES.
- 10. SEE S1.00 SERIES SHEETS FOR BEARING WALL SCHEDULES.
- 11. DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF WALL U.N.O.
- 12. ALL STRUCTURAL WALLS SHOWN ARE TYPE "W1" U.N.O.

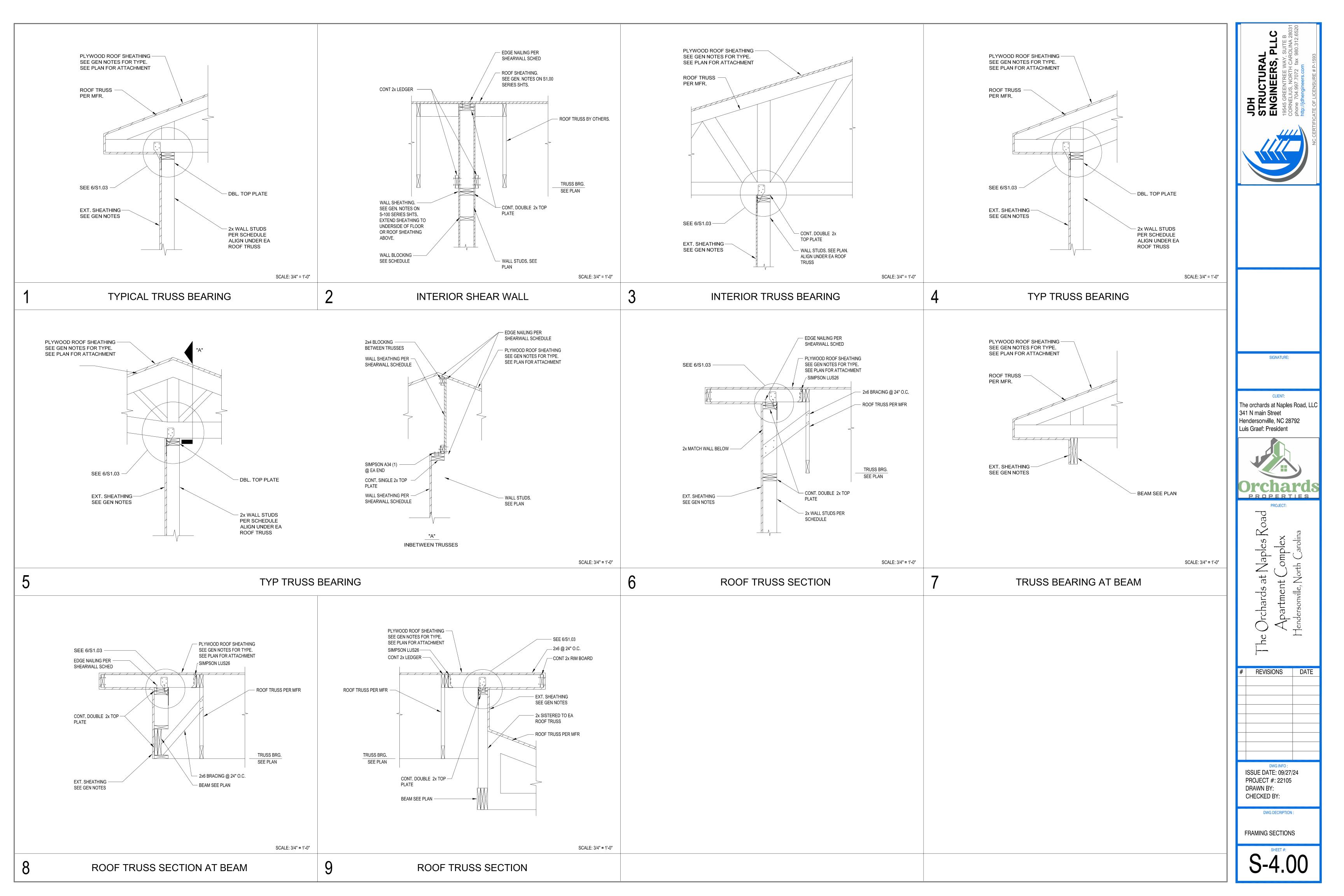
14. INDICATES WOOD POST LABEL, SEE S1.05 FOR

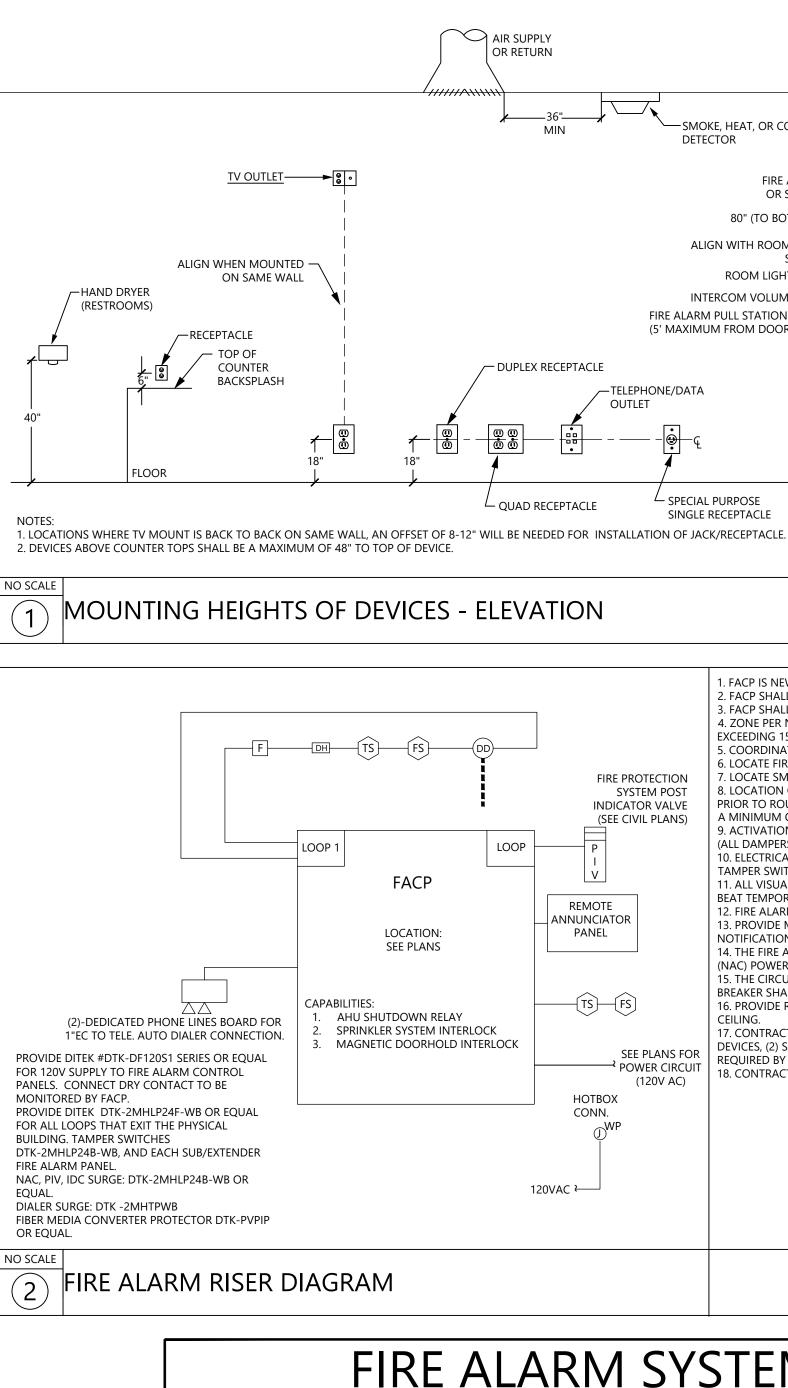
SCHEDULE AND DETAIL. 15. SEE 1/S1.05 FOR WALL OPENINGS





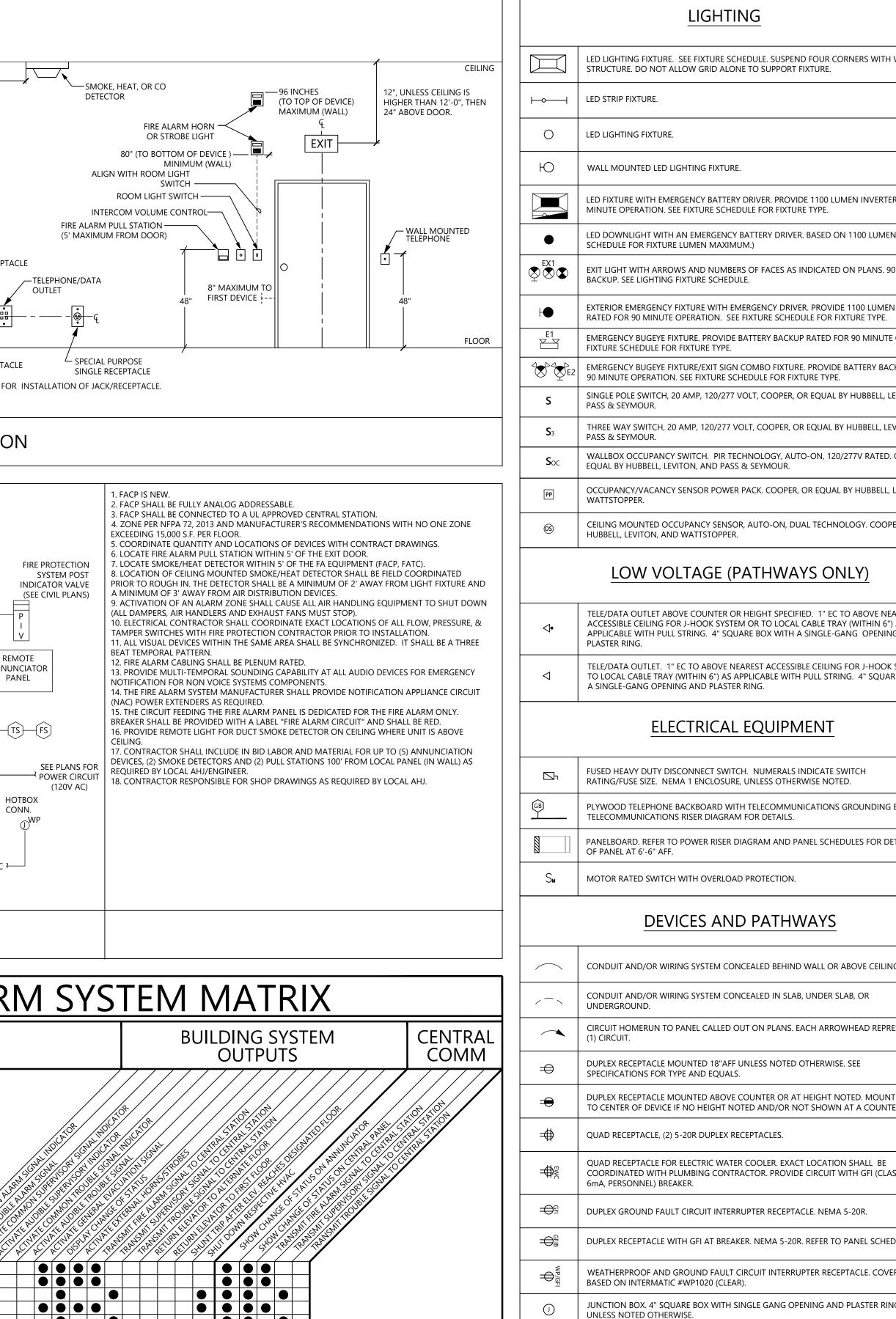
JDH       JDH         STRUCTURAL       JDH         STRUCTURAL       BURD
CLIENT:
The orchards at Naples Road, LLC 341 N main Street Hendersonville, NC 28792 Luis Graef: President Occhards at Naples Road PROJECT: PROJECT: PROJECT: Project
#       REVISIONS       DATE         #       Neuropeane       Image: Second s
DWG INFO : ISSUE DATE: 09/27/24 PROJECT #: 22105 DRAWN BY: CHECKED BY: DWG DECRIPTION : DWG DECRIPTION : FOUNDATION SECTIONS





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MANUAL FIRE ALARM PULL BOXES				TH ALL	
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BUILDING SMOKE DETECTOR DUCT SMOKE DETECTOR SPRINKLER WATER FLOW				O LIVE	
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BUILDING SMOKE DETECTOR DUCT SMOKE DETECTOR SPRINKLER WATER FLOW SPRINKLER TAMPER					
BUILDING SMOKE DETECTOR DUCT SMOKE DETECTOR SPRINKLER WATER FLOW SPRINKLER TAMPER NOTIFICATION DEVICE SHORT CIRCUIT					
BUILDING SMOKE DETECTOR DUCT SMOKE DETECTOR SPRINKLER WATER FLOW SPRINKLER TAMPER NOTIFICATION DEVICE SHORT CIRCUIT OPEN CIRCUIT					



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LIGHTING	2018 NORTH CAROLINA ENERGY CONSERVATION CODE	
LED LIGHTING FIXTURE. SEE FIXTURE SCHEDULE. SUSPEND FOUR CORNERS WITH WIRE TO	COMMERCIAL ENERGY EFFICIENCY - ELECTRICAL SUMMARY	
STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.	C401 METHOD OF COMPLIANCE	
LED STRIP FIXTURE.	2018 NCECC CHAPTER 4       NC SPECIFIC COMCHECK PROVIDED         N/A BASED ON PROJECT SCOPE       ASHRAE 90.1-2013	Wildo
LED LIGHTING FIXTURE.	C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS	Wilde —— engineering
WALL MOUNTED LED LIGHTING FIXTURE.	C406.1.2 REDUCED LTG DENSITY       C406.1.5 DEDICATED OA SYSTEM         C406.1.3 ENHANCED DIGITAL LTG CNTLS       C406.1.6 HI-EFF SERVICE WTR HTG	MECHANICAL, ELECTRICAL & P.UMBING 15822 Kelly Park Cir Huntersville, NC (704) 439-7038 NC Firm License No. P-2182
LED FIXTURE WITH EMERGENCY BATTERY DRIVER. PROVIDE 1100 LUMEN INVERTER RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE.	NOT APPLICABLE BASED ON PROJECT SCOPE	NO THE LICENSE NO. F-2102
LED DOWNLIGHT WITH AN EMERGENCY BATTERY DRIVER. BASED ON 1100 LUMEN INVERTER (SEE SCHEDULE FOR FIXTURE LUMEN MAXIMUM.)	C408 - SYSTEM COMMISSIONING: BUILDING IS LESS THAN 10,000 SQUARE FEET AND IS EXEMPT FROM THE SYSTEM COMMISSIONING REQUIREMENTS OF SECTION C408.	
EXIT LIGHT WITH ARROWS AND NUMBERS OF FACES AS INDICATED ON PLANS. 90 MIN BATTERY BACKUP. SEE LIGHTING FIXTURE SCHEDULE.	BUILDING IS GREATER THAN 10,000 SQUARE FEET AND REQUIRES SYSTEM COMMISSIONING PER SECTION C408.	
EXTERIOR EMERGENCY FIXTURE WITH EMERGENCY DRIVER. PROVIDE 1100 LUMEN INVERTER RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE.	C405.2 - LIGHTING CONTROLS (MANDATORY REQUIREMENTS):	
EMERGENCY BUGEYE FIXTURE. PROVIDE BATTERY BACKUP RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE.	<ul> <li>LIGHTING SYSTEMS ARE PROVIDED WITH CONTROLS AS REQUIRED PER SECTION C405.2, EXCEPT WHERE EXEMPT.</li> <li>NOT APPLICABLE</li> </ul>	- PRELIMINARY -
EMERGENCY BUGEYE FIXTURE/EXIT SIGN COMBO FIXTURE. PROVIDE BATTERY BACKUP RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE.	C405.3 - EXIT SIGNS (MANDATORY REQUIREMENTS):	NOT FOR CONSTRUCTION
SINGLE POLE SWITCH, 20 AMP, 120/277 VOLT, COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.	C405.4 - INTERIOR LIGHTING POWER REQUIREMENTS (PRESCRIPTIVE) (NON-EXEMPT):	
THREE WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.	NOT APPLICABLE PER 2018 NCECC C503.1, EXCEPTION 2.G.	
WALLBOX OCCUPANCY SWITCH. PIR TECHNOLOGY, AUTO-ON, 120/277V RATED. COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.	C405.4.1 - TOTAL <u>CONNECTED</u> INTERIOR LIGHTING POWER: <u>12,410</u> WATTS SPECIFIED	
OCCUPANCY/VACANCY SENSOR POWER PACK. COOPER, OR EQUAL BY HUBBELL, LEVITON, AND WATTSTOPPER.	25 % REDUCTION OF SPECIFIED VS. ALLOWED (APPLICABLE IF C406.1.2 IS SELECTED)	
CEILING MOUNTED OCCUPANCY SENSOR, AUTO-ON, DUAL TECHNOLOGY. COOPER, OR EQUAL BY HUBBELL, LEVITON, AND WATTSTOPPER.	C405.4.2 - TOTAL <u>ALLOWABLE</u> INTERIOR LIGHTING POWER: METHOD OF COMPLIANCE:	
LOW VOLTAGE (PATHWAYS ONLY)	BUILDING AREA METHOD SPACE-BY-SPACE METHOD 16,468 WATTS ALLOWED C405.5.1 - EXTERIOR BUILDING LIGHTING POWER (NON-EXEMPT): NOT APPLICABLE	
TELE/DATA OUTLET ABOVE COUNTER OR HEIGHT SPECIFIED. 1" EC TO ABOVE NEAREST ACCESSIBLE CEILING FOR J-HOOK SYSTEM OR TO LOCAL CABLE TRAY (WITHIN 6") AS APPLICABLE WITH PULL STRING. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.	TOTAL <u>CONNECTED</u> EXTERIOR LIGHTING POWER: <u>970</u> WATTS SPECIFIED TOTAL ALLOWABLE EXTERIOR LIGHTING POWER:	SIGNATURE:
TELE/DATA OUTLET. 1" EC TO ABOVE NEAREST ACCESSIBLE CEILING FOR J-HOOK SYSTEM OR TO LOCAL CABLE TRAY (WITHIN 6") AS APPLICABLE WITH PULL STRING. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.	<u>2,110</u> WATTS ALLOWED C405.6 - ELECTRICAL ENERGY CONSUMPTION (DWELLING UNITS): SEPARATE ELECTRICAL METERING HAS BEEN PROVIDED FOR EACH DWELLING UNIT IN GROUP	CLIENT: The Orchards at Naples Road, LLC
ELECTRICAL EQUIPMENT	<ul> <li>SEPARATE ELECTRICAL METERING HAS BEEN PROVIDED FOR EACH DWELLING UNIT IN GROUP</li> <li>R-2 BUILDINGS.</li> <li>NOT APPLICABLE</li> <li>C405.7 - ELECTRICAL TRANSFORMERS (MANDATORY REQUIREMENTS):</li> </ul>	341 N Main Street Hendersonville, NC 28792 Luis Graef: President
FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE SWITCH RATING/FUSE SIZE. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.	ELECTRICAL TRANSFORMERS HAVE BEEN SPECIFIED TO MEET MINIMUM EFFICIENCY REQUIREMENTS PER C405.7, EXCEPT WHERE EXEMPT.	
PLYWOOD TELEPHONE BACKBOARD WITH TELECOMMUNICATIONS GROUNDING BAR. REFER TO TELECOMMUNICATIONS RISER DIAGRAM FOR DETAILS.	<ul> <li>NOT APPLICABLE</li> <li>C405.8 - ELECTRICAL MOTORS (MANDATORY REQUIREMENTS):</li> <li>ELECTRICAL MOTORS HAVE BEEN SPECIFIED TO MEET MINIMUM EFFICIENCY REQUIREMENTS</li> </ul>	
PANELBOARD. REFER TO POWER RISER DIAGRAM AND PANEL SCHEDULES FOR DETAILS. TOP OF PANEL AT 6'-6" AFF.	PER C405.8, EXCEPT WHERE EXEMPT.         NOT APPLICABLE	Orchards PROPERTIES
MOTOR RATED SWITCH WITH OVERLOAD PROTECTION.		PROJECT:
DEVICES AND PATHWAYS	ABBREVIATIONS	Roa
CONDUIT AND/OR WIRING SYSTEM CONCEALED BEHIND WALL OR ABOVE CEILING.	+42" DIMENSION INDICATES HEIGHT ABOVE FINISHED FLOOR AT WHICH CENTER OF DEVICE IS TO MOUNTED. SEE PLANS. 3R NEMA 3R	Naples   Complex orth Carolín
CONDUIT AND/OR WIRING SYSTEM CONCEALED IN SLAB, UNDER SLAB, OR UNDERGROUND.	AFF     ABOVE FINISHED FLOOR       AHJ     AUTHORITY HAVING JURISDICTION	
CIRCUIT HOMERUN TO PANEL CALLED OUT ON PLANS. EACH ARROWHEAD REPRESENTS (1) CIRCUIT.	AHU AIR HANDLER UNIT C.B. CIRCUIT BREAKER	
DUPLEX RECEPTACLE MOUNTED 18"AFF UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR TYPE AND EQUALS.	EC       EMPTY CONDUIT WITH PULL CORD         E.C.       ELECTRICAL CONTRACTOR         EWC       ELECTRIC WATER COOLER	Orchards Apartmen endersonville,
DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER OR AT HEIGHT NOTED. MOUNT 48" TO CENTER OF DEVICE IF NO HEIGHT NOTED AND/OR NOT SHOWN AT A COUNTER TOP.	EWHELECTRIC WATER HEATERFACPFIRE ALARM CONTROL PANEL	Drc Apé endei
QUAD RECEPTACLE, (2) 5-20R DUPLEX RECEPTACLES.	FPN       FUSE PER NAMEPLATE         LC       LIGHTING CONTACTOR         M.C.       MECHANICAL CONTRACTOR	he ( H
QUAD RECEPTACLE FOR ELECTRIC WATER COOLER. EXACT LOCATION SHALL BE COORDINATED WITH PLUMBING CONTRACTOR. PROVIDE CIRCUIT WITH GFI (CLASS-A 6mA, PERSONNEL) BREAKER.	P.C. PLUMBING CONTRACTOR U.G. UNDERGROUND WP WEATHERPROOF	}
DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. NEMA 5-20R.	S.E.       SERVICE ENTRANCE         EM       EMERGENCY FIXTURE WITH BATTERY OR GEN. BACK-UP         ER       EXISTING ITEM RELOCATED TO THIS LOCATION	# REVISIONS DATE
DUPLEX RECEPTACLE WITH GFI AT BREAKER. NEMA 5-20R. REFER TO PANEL SCHEDULES.	ER       EXISTING ITEM RELOCATED TO THIS LOCATION.         RL       EXISTING ITEM TO BE RELOCATED.         RM       EXISTING ITEM TO REMAIN.	
WEATHERPROOF AND GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. COVER BASED ON INTERMATIC #WP1020 (CLEAR).	RP       EXISTING ITEM TO BE REPLACED.         RV       EXISTING ITEM TO BE REMOVED.	
JUNCTION BOX. 4" SQUARE BOX WITH SINGLE GANG OPENING AND PLASTER RING, UNLESS NOTED OTHERWISE.	Isc     RMS SYMMETRICAL SHORT CIRCUIT CURRENT       AIC     AMPERE INTERRUPTING CAPACITY (EQUIPMENT RATING)	
WALL MOUNTED JUNCTION BOX. 4" SQUARE BOX WITH SINGLE GANG OPENING AND PLASTER RING, UNLESS NOTED OTHERWISE. BOX SHALL BE RECESSED IN WALL WITH		
NOT EXPOSED CONDUIT, UNLESS NOTED OTHERWISE.         TV POWER AND DATA CONNECTION, SEE DETAIL. MOUNT 72"AFF UNLESS NOTED OTHERWISE.		
		ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: MFL CHECKED BY: JK
		DWG DECRIPTION : ELECTRICAL COVER SHEET
		SHEET #:

### GENERAL:

- A. THE WORK COVERED BY THESE SPECIFICATIONS CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, MATERIAL, S AND SUPPLIES AS NECESSARY FOR THE COMPLETE AND SATISFACTORY OPERATING ELECTRICAL SYSTEMS AS SHOWN ON THE PLANS
- B. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE, NFPA, STATE BUILDING CODE, AND ANY OTHER LOCAL REQUIREMENTS THAT MAY APPLY. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL ELECTRICAL PERMITS AND INSPECTION FEES. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY THE UNDERWRITER'S
- INTENDED WHERE A STANDARD FOR SUCH MATERIALS AND USE EXISTS. ALL ITEMS OF THE SAME TYPE AND RATING SHALL BE IDENTICAL AND OF THE SAME MANUFACTURER. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CATALOG DATA IN ELECTRONIC FORMAT (PDF) FOR ALL ELECTRICAL ITEMS IN THE SCOPE OF WORK, INCLUDING, BUT NOT LIMITED TO,
- RACEWAYS, BOXES, FITTINGS, CONDUCTORS, LUMINAIRES, LAMPS, BALLASTS, WIRING DEVICES, SAFETY SWITCHES, DISCONNECTS, TRANSFORMERS, PANELBOARDS, SWITCHBOARDS, FIRE ALARM, TELECOMMUNICATIONS, ETC. FOR APPROVAL AS APPLICABLE FOR THE PROJECT. ONE COMPLETE SET OF APPROVED SUBMITTALS SHALL BE MAINTAINED AT THE JOB SITE ALL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT TO COMPLY WITH THE BASIS OF DESIGN,
- INCLUDING PROVIDING MAINTENANCE ACCESS, CLEARANCE, CONDUIT, WIRING, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, METHODS, ETC., SHALL BE INCLUDED IN THE ORIGINAL BASE BID. NO ADDITIONAL COSTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT WILL BE APPROVED AFTER BIDS HAVE BEEN ACCEPTED AND ALL COSTS WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. CREDITS SHALL BE GIVEN TO THE OWNER WHERE SUCH EQUIPMENT AND METHODS RESULT IN LESS EXPENSE TO THE CONTRACTOR.
- ONE COMPLETE SET OF THE LATEST CONSTRUCTION PLANS OF ALL TRADES SHALL BE MAINTAINED AT THE JOB SITE. IN ADDITION, ALL ADDENDUMS, BULLETINS, AND/OR SKETCHES SHALL BE INCORPORATED INTO THE ON-SITE CONSTRUCTION PLANS AS THE JOB PROGRESSES. COMPLETELY ADEQUATE HOUSING SHALL BE PROVIDED FOR ALL MATERIALS STORED ON JOB SITE.
- ONLY CONDUIT MAY BE STORED OUTSIDE, BUT NOT IN CONTACT WITH THE GROUND. THE CONDUIT AND NEUTRAL SYSTEM SHALL BE GROUNDED AT THE MAIN SERVICE EQUIPMENT. GROUNDING FLECTRODE SYSTEM SHALL BE INSTALLED PER NEC 250 PROVIDE AN INTERSYSTEM BONDING TERMINATION DEVICE AT THE MAIN ELECTRICAL SERVICE
- PFR NFC 250 94 WIRING SHALL BE TESTED FOR CONTINUITY AND GROUNDS BEFORE BEING ENERGIZED. FAULTY WIRING SHALL BE REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- PROVIDE ALL CUTTING AND PATCHING FOR INSTALLATION OF WORK AND REPAIR ANY DAMAGE M. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL EQUIPMENT REQUIRING ELECTRICAL
- CONNECTIONS (UNLESS OTHERWISE NOTED), EXCEPT FOR CONTROL WIRING FOR FOUIPMENT NOT PROVIDED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING FOR SUCH EQUIPMENT SHALL BE PROVIDED BY THE RESPECTIVE DISCIPLINE. N. ALL ELECTRICAL JUNCTION BOXES, SWITCHGEAR, CABLING, VOICE/DATA OUTLETS, LOW VOLTAGE
- CABINETS, EMERGENCY RECEPTACLES, ETC. SHALL BE LABELED ACCORDING TO PANEL/RACK AND CIRCUIT NUMBER O. UPON COMPLETION OF WORK, CONTRACTOR SHALL PRESENT ENGINEER WITH CERTIFICATE OF
- APPROVAL FROM LOCAL INSPECTOR AND/OR AUTHORITY HAVING JURISDICTION BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR
- EFFECTIVE THE DATE THE PROJECT IS ACCEPTED BY THE OWNER. ANY IMPERFECT MATERIALS OR WORKMANSHIP SHALL BE REPLACED WITHOUT ADDED COST TO THE PROJECT. O. IT SHALL NOT BE THE INTENT OF ISSUED PLANS AND/OR SPECIFICATIONS TO SHOW FVFRY MINOR DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR IS EXPECTED TO FURNISH AND
- INSTALL ALL NECESSARY ITEMS FOR A COMPLETE AND OPERATING SYSTEM. R. THE WORD "PROVIDE" MEANS THAT THIS CONTRACTOR SHALL FURNISH, FABRICATE, ERECT, CONNECT, AND COMPLETELY INSTALL SYSTEMS IN PROPER OPERATING CONDITION. ALL LABOR,
- PRODUCT OPTIONS, ACCESSORIES AND INCIDENTAL MATERIALS REQUIRED SHALL BE INCLUDED AS PART OF THIS WORK TO COMPLETE THE INSTALLATION THE WORD "CONNECT" MEANS THAT THIS CONTRACTOR SHALL PROVIDE (SEE DEFINITION ABOVE) ALL DISCONNECTING MEANS, OVERCURRENT PROTECTION AND WIRING REQUIRED TO PLACE THE EQUIPMENT AND SYSTEMS IN PROPER OPERATING CONDITION AND TO COMPLY WITH CODE
- REQUIREMENTS T. CONTRACTOR SHALL COORDINATE THE ROUGH-IN OF ALL OUTLET LOCATIONS WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS, AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN
- U. ELECTRICAL CONTRACTOR SHALL NOT SCALE PLANS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL TEST ALL "LIFE SAFETY" EQUIPMENT AND SYSTEMS FOR PROPER FUNCTION AND OPERATION. UPON SUCCESSFUL COMPLETION OF TESTS, CONFIRMATION SHALL BE SENT TO THE ENGINEER OF RECORD IN THE FORM OF A LETTER STATING THE TESTS PERFORMED, THE RESULTS, AND THE DATE TESTS WERE SUCCESSFULLY COMPLETE. "LIFE SAFETY" EQUIPMENT AND SYSTEMS CONSIST OF THOSE AS SPECIFIED IN THE STATE BUILDING CODE, THE NATIONAL
- ELECTRICAL CODE (NEC), NFPA 101, AND ANY OTHER LOCAL REQUIREMENTS THAT MAY APPLY W. IF DURING THE COURSE OF WORK, THE CONTRACTOR DISCOVERS A PROBLEM WITH THE PERFORMANCE OF THE INSTALLATION RELATIVE TO THE PLANS AND SPECIFICATIONS, THE NEC, OR OTHER CODES OR REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY BRING THE PROBLEM TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK
- WHERE THERE ARE CONFLICTS BETWEEN THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL BRING THE ISSUE TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK OR ORDERING ANY MATERIALS. NO ADDITIONAL COSTS SHALL BE VARRANTED WITHOUT A CHANGE TO THE PROJECT SCOPE
- Y. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PROVIDING TEMPORARY POWER AND LIGHTING FOR ALL TRADES. AT NO TIME SHALL EXISTING BUILDING POWER SYSTEMS BE UTILIZED WITHOUT WRITTEN PERMISSION FROM THE OWNER.
- Z. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH THE POWER COMPANY. WHERE MORE THAN ONE SERVICE IS SUPPLIED TO A BUILDING, PROVIDE IDENTIFICATION AT EACH SERVICE PER NEC 230-2(E). AA. COORDINATE LOCATION AND REQUIREMENTS FOR TELEPHONE SERVICE WITH THE TELEPHONE COMPANY
- AB. THE CONTRACTOR SHALL PROVIDE A MINIMUM TWO WEEK NOTICE FOR ANY PLANNED UTILITY OUTAGES. WRITTEN AUTHORIZATION FROM THE OWNER SHALL BE PROVIDED PRIOR TO ANY OUTAGE ALL PLANNED UTILITY OUTAGES SHALL BE COORDINATED WITH THE OWNER TO OCCUR DURING NON-OPERATING TIMES, INCLUDING NIGHTS, WEEKENDS AND HOLIDAYS. ALL PLANNED UTILITY OUTAGES SHALL INCLUDE PROVISIONS FOR PROPER BACK-UP OF ALL LIFE-SAFETY SYSTEMS AND INCLUDE AN APPROVED FIRE-WATCH PROGRAM AS REQUIRED BY THE LOCAL FIRE
- 2. <u>RACEWAY:</u>

MARSHALL.

- A. CONDUIT SHALL BE MANUFACTURED BY ALLIED, WHEATLAND, REPUBLIC CONDUIT, WESTERN
- TUBE, OR APPROVED EQUIVALENT. B. FOR INTERIOR WORK, CONDUIT SHALL BE ZINC COATED EMT EXCEPT WHERE NOT PERMITTED BY CODE. USE SCHEDULE 40 PVC BELOW CONCRETE SLAB, IN DUCTBANKS, AND FOR EXTERIOR WORK WHERE NOT SUBJECT TO DAMAGE. USE IMC WHERE SUBJECT TO PHYSICAL DAMAGE. EMT FITTINGS SHALL BE COMPRESSION GLAND TYPE, OF MALLEABLE STEEL. CONNECTORS SHALL HAVE INSULATED THROATS. CAST, SET SCREW, OR INDENTER TYPE FITTINGS ARE NOT
- ACCEPTABLE. ALL FITTINGS FOR EMT SHALL BE MADE OF STEEL. ALL RACEWAY SHALL BE RUN CONCEALED, UNLESS OTHERWISE NOTED. FISH ALL NEW OUTLETS IN EXISTING WALLS, WHERE POSSIBLE. ALL RUNS SHALL BE NEAT AND SOUARE
- E. LOW VOLTAGE CABLING NOT SPECIFIED TO BE INSTALLED IN CONDUIT, SHALL BE INSTALLED IN A CABLE TRAY SYSTEM OR J-HOOK SYSTEM CONSISTING OF MINIMUM 2" DIAMETER HOOKS LOCATED ON 3'-0" CENTERS IN ALL ACCESSIBLE CEILINGS. WHERE THERE ARE INACCESSIBLE
- CEILINGS, PROVIDE CONDUIT FOR ENTIRE LENGTH OF INACCESSIBILITY. RACEWAYS USED FOR LOW VOLTAGE SYSTEMS SUCH AS TELECOMMUNICATIONS, FIRE ALARM, SECURITY, CCTV, CONTROLS, AND SIMILAR CONDUITS ABOVE THE CEILING AND BACKBOARD(S) SHALL BE PROVIDED WITH INSULATED THROAT BUSHINGS AT EACH CONDUIT TERMINATION. THESE BUSHINGS SHALL BE BE INSTALLED PRIOR TO PULLING LOW-VOLTAGE CABLES. G. RACEWAY PENETRATIONS THROUGH FLOOR SLABS AND FIRE-RATED WALLS SHALL BE FILLED WITH
- IMPERVIOUS, NON-SHRINK GROUT SUFFICIENTLY TIGHT TO PREVENT THE TRANSFER OF SMOKE, WATER, AND DUST. ROOF PENETRATIONS SHALL BE WITHIN THE EQUIPMENT ROOF CURB.
- H. SUPPORT ALL CONDUIT WITH STRAPS AND CLAMPS. ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES, WHETHER
- EXPOSED OR NOT AND SUPPORTED FROM STRUCTURE AND PROPERLY SECURED. WHERE CONDUITS PASS THROUGH A BUILDING EXPANSION JOINT, PROVIDE GALVANIZED EXPANSION FITTINGS WITH BONDING JUMPERS
- K. MINIMUM CONDUIT SIZE SHALL BE 3/4" FOR INTERIOR WORK, 1" FOR EXTERIOR WORK. PROVIDE MINIMUM 210# TEST NYLON PULL CORD AND NYLON BUSHINGS IN ALL EMPTY RACEWAYS
- M. LIQUID-TIGHT METAL CONDUIT SHALL ONLY BE USED FOR FINAL CONNECTIONS TO EQUIPMENT AND ALL OTHER ROTATING AND VIBRATING EQUIPMENT, MAXIMUM LENGTH OF 3'-0".
- N. FLEXIBLE METAL CONDUIT, MINIMUM SIZE 3/8", SHALL ONLY BE USED FOR FINAL CONNECTION TO LIGHTING FIXTURES, MAXIMUM LENGTH OF 6'-0". O. PROVIDE PULL BOXES, SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 360°. PULL
- BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE. WHERE CONDUITS PASS UNDER PAVED AREAS, THEY SHALL BE RGS.
- P. ALL CONDUIT BENDS/ELBOWS EMERGING FROM UNDERGROUND SHALL BE IMC AND SHALL EXTEND A MINIMUM OF 18" BELOW GRADE Q. ALL UNDERGROUND RACEWAYS SHALL BE THOROUGHLY COATED WITH TWO COATS OF ASPHALTUM BITUMASTIC.
- R. ALL CONDUITS INSTALLED UNDERGROUND OR IN CONCRETE SHALL HAVE JOINTS MADE WATERTIGHT BY USE OF POLYETRA-FLUOROETHYLENE TAPE. THE USE OF AC OR NM CABLE IS NOT PERMITTED.
- MC CABLE MAY ONLY BE UTILIZED WHERE PERMITTED BY CODE AND IT SHALL ONLY BE ALLOWED
- WHERE CONCEALED BEHIND HARD WALLS AND HARD CEILINGS. MC CABLE SHALL NOT BE **EXPOSED** U. APPROVED SEALS SHALL BE PROVIDED IN HAZARDOUS LOCATIONS AS REQUIRED BY THE NEC.
- OUTLET BOXES:
- A. JUNCTION AND PULL BOXES SHALL BE CODE GAUGE GALVANIZED STEEL. ACCEPTED MANUFACTURERS SHALL BE STEEL CITY (THOMAS & BETTS), RACO, CROUSE-HINDS, APPLETON (EMERSON), OR APPROVED EOUIVALENT OUTLET BOXES SHALL NOT BE MOUNTED BACK TO BACK IN COMMON WALLS. ATTACH EMT WITH CONNECTORS HAVING INSULATED THROAT.

- LABORATORIES, INC. OR BY A STATE APPROVED THIRD PARTY TESTING AGENCY FOR THE USE

- D. ATTACH BOXES TO STUD WORK USING CADDY BAR STRAPS THAT CONNECT TO TWO ADJACENT STUDS TO PREVENT TWISTING OF BOX IN WALL. ALL OUTLET BOXES (INCLUDING TELEPHONE, CABLE TV, AND COMPUTER) SHALL HAVE COVER PLATES, BLANK IF NOT USED.
- F. ALL EXTERIOR BOXES SHALL BE WATER-TIGHT. CONDUCTORS:
- A. CONDUCTORS SHALL BE MANUFACTURED BY SOUTHWIRE (SIMPULL), ENCORE (SUPERSLICK), UNITED COPPER (SLK), CERRO (SLP), OR APPROVED EQUAL, "PRE-LUBRICATED" BY THE MANUFACTURFR
- B. ALL CONDUCTORS SHALL BE COPPER, RATED 75° C WET/DRY EXCEPT WHERE OTHERWISE NOTED OR REQUIRED BY U.L. OR OTHER CODES.
- ALL CONDUCTORS SHALL BE SINGLE INSULATED CONDUCTOR, THHN/THWN-2. SIZES #10 AWG AND SMALLER SHALL BE SOLID, SIZES #8 AWG AND LARGER SHALL BE STRANDED. BRANCH CIRCUITS SHALL NOT BE SMALLER THAN #12 AWG. CONTROL WIRING MAY BE #14 AWG.
- CONDUCTORS SHALL BE COLOR CODED BLACK/RED/BLUE FOR 120/208 VOLT SYSTEMS AND BROWN/ORANGE/YELLOW FOR 277/480 VOLT SYSTEMS FOR A, B, AND C PHASES, RESPECTIVELY. NEUTRAL SHALL BE WHITE FOR 120/208 VOLT SYSTEMS AND NATURAL GRAY FOR 277/480 VOLT SYSTEMS. GROUND CONDUCTOR SHALL BE GREEN ON ALL SYSTEMS. ALL CONDUCTOR SIZES SHALL HAVE COLOR-CODED INSULATION. THE USE OF COLORED TAPE ON LARGER WIRE SIZES SHALL NOT BE ALLOWED.
- INSULATION SHALL BE DUAL RATED TYPE THHN/THWN-2 FOR FEEDERS AND BRANCH CIRCUITS. FIXTURE TAPS SHALL BE #12 THHN/THWN-2 IN FLEX WITH GREEN #12 AWG GROUNDING CONDUCTOR
- ALL CONDUCTORS SHALL BE IN CONDUIT. WIRING TO LIGHTING FIXTURES SHALL BE AS REQUIRED BY UL LABEL.
- MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE ALLOWED, UNLESS EXPLICITLY INDICATED ON THE DRAWINGS. WHERE EXPLICITLY INDICATED ON THE DRAWINGS: 1) ALL 20A MULTI-WIRE RECEPTACLE CIRCUITS SHALL UTILIZE A #10 AWG NEUTRAL CONDUCTOR.
- 2) ONLY WHERE PERMITTED UNDER "RACEWAYS", MC CABLE ASSEMBLIES CAN BE AFC "SUPER NEUTRAL" OR EQUAL, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. WHERE MULTI-WIRE BRANCH CIRCUITS ARE EXPLICITLY INDICATED ON THE DRAWINGS, THEY SHALL BE INSTALLED PER NEC 210.4. MEANS SHALL BE PROVIDED TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES IN ADDITION TO OTHER REQUIREMENTS PER NEC 210.4.
- JOINTS IN #10 AWG AND SMALLER SHALL BE MADE UP WITH CRIMPED CONNECTORS WITH INSULATING CAPS (NO TAPE) OR WIRENUTS (MAXIMUM OF 3 CONDUCTORS UNDER ANY CONNECTOR OR WIRENUT). LARGER WIRE SHALL USE SPLIT BOLTS OR BOLTED CLAMPS. K. ALL WIRING LUGS THROUGHOUT THE PROJECT, INCLUDING, BUT NOT LIMITED TO, BREAKERS,
- PANELBOARD/SWITCHBOARD LUGS, SAFETY SWITCH LUGS, MOTOR STARTER LUGS, TRANSFORMERS LUGS. WIRING DEVICE TERMINALS. AND ALL EQUIPMENT LUGS/TERMINALS SHALL BE RATED FOR USE WITH 75 DEGREE INSULATED CONDUCTORS AT THEIR 75 DEGREE AMPACITY AND SHALL BE SIZED AND SELECTED TO MATCH THE CONDUCTOR SIZE AND MATERIAL. CIRCUIT JOINTS SHALL NOT BE MADE ON DEVICE TERMINALS.
- M. WIRE WITHIN PANELBOARDS SHALL BE NEATLY TRAINED, SQUARED, BUNCHED, AND TAGGED. ALL SYSTEM FURNITURE CONNECTIONS SHALL COMPLY WITH NEC 605. O. GROUND ALL EQUIPMENT PER NEC ARTICLE 250. BOND WHERE CONDUITS ENTER ENCLOSURES. THROUGH CONCENTRIC KNOCKOUTS. ALL FLEX, INCLUDING FIXTURE TAPS, SHALL INCLUDE GREEN GROUNDING CONDUCTOR, #12 AWG MINIMUM. PROVIDE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT AND FOR EACH CIRCUIT, SIZED PER NEC 250-122.
- ALL CONDUCTORS INSTALLED IN VERTICAL RACEWAYS SHALL BE SUPPORTED AT INTERVALS AS REQUIRED PER NEC 300-19 THE ELECTRICAL CONTRACTOR SHALL FOLLOW AND APPLY THE TABLE BELOW, REGARDLESS WHAT THE PANEL SCHEDULE INDICATES, FOR SIZING ALL 120V & 277V, 20 AMP BRANCH CIRCUITS
- (COPPER CONDUCTORS) TO ALLOW A MAXIMUM OF 3% VOLTAGE DROP FROM THE CIRCUIT BREAKER TO THE FIRST DEVICE ON THE BRANCH CIRCUIT AND ACHIEVE A MAXIMUM OF 5% VOLTAGE DROP ACROSS THE ENTIRE BRANCH CIRCUIT:

OLTAGE	CONDUCTOR LENGTH *	BRANCH CIRCUIT
20	0' - 50'	#12
20	51' - 90'	#10
20	91' - 140'	#8
20	141' - 225'	#6
277	0' - 125'	#12
277	126' - 200'	#10
277	201' - 330'	#8
277	331' - 525'	#6

\* - THE LENGTH IS MEASURED FROM THE CIRCUIT BREAKER TO THE FIRST DEVICE WHICH THE BRANCH CIRCUIT SERVES. WHERE THE DISTANCE EXCEEDS ABOVE, CONSULT WITH THE ENGINEER.

### WIRING DEVICES:

WIRING DEVICES SHALL BE SPECIFICATION GRADE, MINIMUM, EQUAL TO COOPER QUALITY INDICATED BELOW OR AS MANUFACTURED BY HUBBELL, LEGRAND-PASS & SEYMOUR, LEVITON, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED:

SWITCHES (120/277V) SHALL BE AS FOLLOWS:

SINGLE-POLE 20 AMP	COOPER AH1221
DOUBLE-POLE 20 AMP	COOPER AH1222
THREE-WAY 20 AMP	COOPER AH1223
FOUR-WAY 20 AMP	COOPER AH1224
SINGLE-POLE-PILOT 20 AMP	COOPER AH1221PL
DOUBLE-POLE-PILOT 20 AMP	COOPER AH1222PL
THREE-WAY-PILOT 20 AMP	COOPER AH1223PL
SINGLE-POLE-KEY 20 AMP	COOPER AH1221L
DOUBLE-POLE-KEY 20 AMP	COOPER AH1222L
THREE-WAY-KEY 20 AMP	COOPER AH1223L
FOUR-WAY-KEY 20 AMP	COOPER AH1224L

DUPLEX RECEPTACLES SHALL HAVE A NYLON FACE AND SHALL BE AS FOLLOWS:

15 AMP DUPLEX	COOPER 5252
20 AMP DUPLEX	COOPER 5352
15 AMP DUPLEX GFCI	COOPER SGF15F
20 AMP DUPLEX GFCI	COOPER SGF20F
15 AMP DUPLEX TAMPER	COOPER TR5262
20 AMP DUPLEX TAMPER	COOPER TR5362
15 AMP DUPLEX GFCI-TAMPER	COOPER TRSGF15
20 AMP DUPLEX GFCI-TAMPER	COOPER TRSGF20

THE PART NUMBERS ABOVE ARE FOR WIRING DEVICE TYPE ONLY. SEE BELOW FOR WIRING DEVICE COLOR AND PLATE MATERIAL/COLOR.

- B. SEE MOUNTING HEIGHT ELEVATION DETAIL FOR STANDARD MOUNTING HEIGHTS OF ALL DEVICES, UNLESS OTHERWISE NOTED.
- THE COLOR OF ALL WIRING DEVICES (SWITCHES AND RECEPTACLES) SHALL BE AS DIRECTED BY THE ARCHITECT, UNLESS OTHERWISE NOTED. ALL COVER PLATES SHALL BE 302 STAINLESS STEEL. COVER PLATES IN MASONRY WALLS SHALL BE JUMBO SIZE
- EACH DUPLEX RECEPTACLE INDICATED TO BE ON A DEDICATED CIRCUIT SHALL BE 20 AMP TYPE. ADJACENT DEVICES SHALL HAVE A COMMON WALL PLATE. WEATHERPROOF COVERS SHALL BE "WHILE-IN-USE" SO PLUGS MAY BE INSTALLED WITHOUT COMPROMISING THE WP FUNCTION. COOPER #WIU-2 DOUBLE-GANG WITH CLEAR COVER OR
- APPROVED FOUAL A MAXIMUM OF 10 GENERAL PURPOSE RECEPTACLES SHALL BE ON EACH BRANCH CIRCUIT. DIMMERS SHALL BE LINEAR SLIDE, PRESENT ON/OFF, SQUARE LAW DIMMING, W/RFI FILTERING AND VOLTAGE COMPENSATION CIRCUITING.
- ALL WALL MOUNTED OCCUPANCY/VACANCY SENSORS/SWITCHES SHALL BE INSTALLED WITH AN FOUIPMENT GROUNDING CONDUCTOR GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL SHALL BE PROVIDED FOR ALL LOCATIONS PER NEC 210.8, INSTALLED IN A READILY ACCESSIBLE LOCATION. WHERE A
- DEVICE LOCATION IS NOT ACCESSIBLE, THE GFCI PROTECTION SHALL BE PROVIDED WITH THE BREAKER SERVING THE DEVICE. K. ALL GFCI RECEPTACLES SHALL HAVE AUTO-MONITORING / SELF-TEST FUNCTION AND REVERSE
- LINE-LOAD MISFIRE FUNCTION AND MEET ALL REQUIREMENTS OF UL 943 (LATEST EDITION). TAMPER-RESISTANT RECEPTACLES SHALL BE PROVIDED FOR ALL AREAS PER NEC 406.12, INCLUDING DWELLING UNITS, GUEST ROOMS, GUEST SUITES AND COMMON AREAS OF HOTELS AND MOTELS, CHILD-CARE FACILITIES, PRESCHOOL AND ELEMENTARY EDUCATION FACILITIES, BUSINESS OFFICES/CORRIDORS/WAITING ROOMS AND THE LIKE IN CLINICS/MEDICAL/DENTAL OFFICES AND OUTPATIENT FACILITIES, ASSEMBLY OCCUPANCIES INCLUDING PLACES OF AWAITING TRANSPORTATION/GYMNASIUMS/SKATING RINKS/AUDITORIUMS, AND DORMITORIES/STUDENT HOUSING.

### SUPPORTS:

- ALL EQUIPMENT SHALL BE ADEQUATELY SUPPORTED FROM STRUCTURE. INSERTS IN MASONRY SHALL BE LEAD OR FIBER IN DRILLED HOLES, OR CAST IN PLACE. NAILS OR POWDER ACTUATED FASTENERS SHALL NOT BE USED.
- EMT/IMC/RGS SUPPORTS SHALL BE A MAXIMUM OF 8'-0" APART AND A MAXIMUM OF 3'-0" FROM BOXES.
- LIGHTING FIXTURES MOUNTED IN OR ON CEILING SHALL BE SUPPORTED FROM STRUCTURE VIA 12 GAUGE STEEL WIRE. PROVIDE A MINIMUM OF FOUR WIRES, ONE ATTACHED TO EACH CORNER OF LAY-IN FIXTURES. RECESSED DOWNLIGHT FIXTURES SHALL BE SUPPORTED THE SAME. DO NOT SUPPORT RACEWAY OR FIXTURES FROM CEILING GRID OR DUCT WORK. USE U.L. LISTED GRID CLIPS ON ALL LAY-IN FIXTURES.

### PAINTING:

- A. SUITABLE FINISH COAT SHALL BE PROVIDED FOR ALL EQUIPMENT. PANEL TUBS, COVERS, ETC. SHALL BE PRIMED AND ENAMELED TO BLEND WITH ADJACENT SURFACES, OR SHALL BE MANUFACTURER'S STANDARD COLOR BAKED ENAMEL FINISH, OR AS DIRECTED BY THE ARCHITECT
- CONTRACTOR TO PAINT WHERE EXISTING EXPOSED PANELBOARDS, SURFACE RACEWAY, SURFACE

### TELECOMMUNICATIONS:

- A. FURNISH A COMPLETE TELEPHONE CONDUIT SYSTEM AS INDICATED B. TELECOMMUNICATION OUTLETS SHALL CONSIST OF A 4" SQUARE D PLASTER RING. PROVIDE BLANK PLATE WITH KNOCKOUTS FOR OUTI
- WILL BE PROVIDED BY A SEPARATE INSTALLER. PROVIDE MINIMUM 1" RACEWAY, UNI ESS OTHERWISE NOTED, FROI NEAREST ACCESSIBLE CEILING SPACE FOR J-HOOK SYSTEM OR TO CA
- PROVIDE MINIMUM 210# TEST NYLON PULL CORD AND NYLON BUS RACEWAYS D. PROVIDE RACEWAYS FOR ALL EXTERIOR AND/OR EXPOSED LOCATIO
- PROVIDE GROUNDING FOR ALL TELEPHONE/DATA SYSTEMS AND EO AND SPECIFICATIONS PROVIDED BY THE OWNERS DESIGNATED VEN
- ALL LOW-VOLTAGE CABLING SHALL BE PLENUM-RATED. G CONTRACTOR SHALL FURNISH AND INSTALL A #6 AWG GREEN INSU
- CONDUIT FROM THE MAIN ELECTRICAL GROUNDING BAR TO TELECO GROUNDING BUS BAR H. PROVIDE MOUNTING BACKBOARDS FOR COMMUNICATIONS EQUIPM
- OF 3/4" TYPE AC, EXTERIOR PLYWOOD, PAINTED BOTH SIDES AND AL GRAY FLAME RETARDANT PAINT VERIFY SITE LOCATION OF TELEPHONE SERVICES WITH APPROPRIATE
- SUBMITTING BID. TELEPHONE SERVICE CONDUITS SHALL BE PROVID POINT AS DIRECTED BY THE LOCAL UTILITY.

### 9. <u>LIGHTING FIXTURES:</u>

- A. TYPES AND MANUFACTURERS ARE SCHEDULED ON THE PLANS. EQU MAY BE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBMITTED ONLY AS INDICATED ONLY AS INDICA THE OWNER AND ENGINEER
- B. ALL FIXTURES SHALL BE U.L. LISTED AND LABELED. LAMPS SHALL BE GENERAL ELECTRIC, PHILIPS, OR OSRAM/SYLVANIA NOTED IN THE LIGHTING FIXTURE SCHEDULE OR OTHERWISE NOTED
- EQUIPPED WITH LAMPS D. BALLASTS SHALL BE AS INDICATED IN THE LIGHTING FIXTURE SCHED
- ALL FIXTURES SHALL BE PROVIDED FOR PROPER VOLTAGE BASED ON
- INDICATED ON THE PLANS. CATALOG NUMBERS ARE FOR GENERAL IDENTIFICATION OF FIXTURE SUCH AS PLASTER RINGS, JUNCTION BOXES, LOUVERS, SHIELDS, MO CONNECTORS, STRAPS, NIPPLES, HARDWARE, ACCESSORIES, ETC., TO CONSTRUCTION, SHALL BE FURNISHED AND INSTALLED BY THIS COM SHALL PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT OR WALL AS SPECIFIED IN ARCHITECTURAL FINISH SCHEDULES REGA GIVEN
- ALL FIXTURES SHALL BE GROUNDED PER THE NEC. H. FIXTURES CONNECTED WITH FLEX TO THE RIGID RACEWAY PORTION SHALL CARRY A GREEN BONDING JUMPER WITHIN THE FLEX THE JU BOTH THE FIXTURE AND THE RACEWAY SYSTEM WITH A STEEL CITY EOUIVALENT. PHASE AND GROUND CONDUCTORS RUN IN FLEX SH
- MAXIMUM FLEX LENGTH SHALL BE 6'-0". SURFACE-MOUNTED FLUORESCENT FIXTURES INSTALLED ON COMBL MOUNTED AT LEAST 1/4" FROM THE SURFACE OF THE MATERIAL EX ARE PLAINLY MARKED AS U.L. APPROVED FOR MOUNTING DIRECTLY MOUNT ALL FIXTURES PLUMB AND SQUARE WITH ROWS ALIGNED.
- FLUORESCENT LUMINAIRES THAT UTILIZE DOUBLE-ENDED LAMPS A CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).
- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIO M. CONTRACTOR SHALL COORDINATE FIXTURE TYPE AND TRIM WITH C ADJUST ACCORDINGLY WITHOUT ADDITIONAL EXPENSE. ALL LIGHTING FIXTURES SHALL BE THERMALLY PROTECTED PER THE

11. EQUIPMENT IDENTIFICATION:

12. DISCONNECTS:

13. PANELBOARDS:

10.

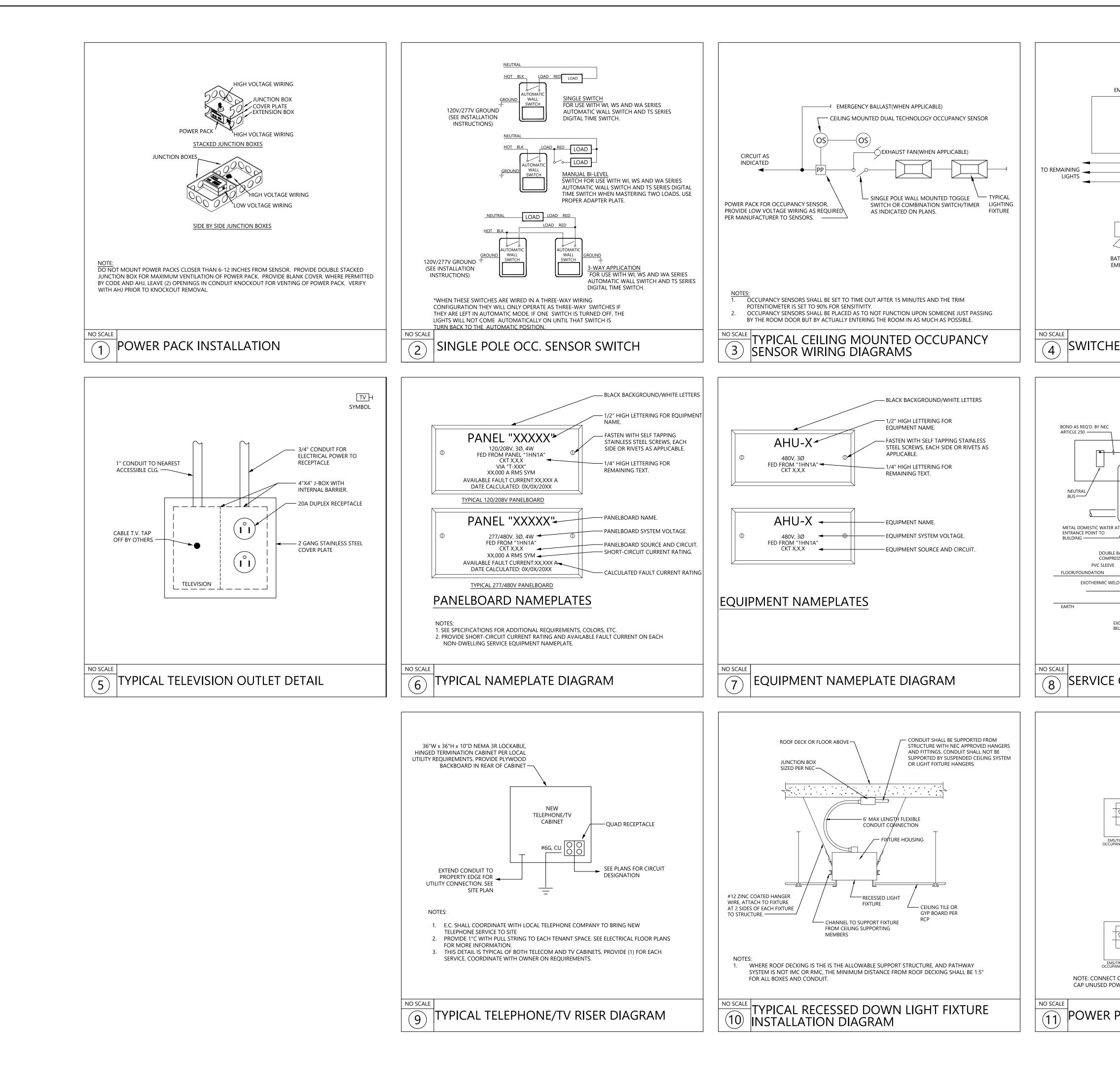
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TE	BOXES, ETC. HAVE BEEN REMOVED DURING THE DEMOLITION PHASE, EITHER FOR TEMPORARY WORK OR PERMANENTLY. ELECOMMUNICATIONS:		N. ALL OVERCURRENT DEVICES WHICH COMPRISE THE EMERGENCY SYSTEM OR LEGALLY REQUIRED STANDBY SYSTEM SHALL BE SELECTIVELY COORDINATED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MANUFACTURER DOCUMENTATION INDICATING COMPLIANCE WITH THE SELECTIVE COORDINATION REQUIREMENTS PER THE NEC.	
B.	FURNISH A COMPLETE TELEPHONE CONDUIT SYSTEM AS INDICATED ON THE DRAWINGS. TELECOMMUNICATION OUTLETS SHALL CONSIST OF A 4" SQUARE DEEP BOX WITH SINGLE GANG PLASTER RING. PROVIDE BLANK PLATE WITH KNOCKOUTS FOR OUTLETS, AS PERMANENT COVERS WILL BE PROVIDED BY A SEPARATE INSTALLER. PROVIDE MINIMUM 1" RACEWAY, UNLESS OTHERWISE NOTED, FROM EACH BOX TO ABOVE		<ul> <li>O. ALL PANELBOARDS SHALL HAVE METAL DIRECTORY FRAME. FOR EACH PANELBOARD, PROVIDE TYPED CIRCUIT DIRECTORY PER NEC 408.4. SPARE CIRCUIT BREAKERS SHALL BE LABELED SPARE AND IN THE OFF POSITION.</li> <li>P. ALL CIRCUIT BREAKERS RATED 1200A OR HIGHER, OR CAPABLE OF BEING RATED 1200A OR HIGHER (I.E. ADJUSTABLE LONG-TIME PICKUP OR REPLACEABLE TRIP/RATING PLUG), SHALL BE PROVIDED WITH AN ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR PER NEC</li> </ul>	
	NEAREST ACCESSIBLE CEILING SPACE FOR J-HOOK SYSTEM OR TO CABLE TRAY AS APPLICABLE. PROVIDE MINIMUM 210# TEST NYLON PULL CORD AND NYLON BUSHINGS IN ALL EMPTY RACEWAYS.	15	240.87(B).	Wilde —
E. F.	PROVIDE RACEWAYS FOR ALL EXTERIOR AND/OR EXPOSED LOCATIONS. PROVIDE GROUNDING FOR ALL TELEPHONE/DATA SYSTEMS AND EQUIPMENT PER REQUIREMENTS AND SPECIFICATIONS PROVIDED BY THE OWNERS DESIGNATED VENDOR. ALL LOW-VOLTAGE CABLING SHALL BE PLENUM-RATED.		FIRE ALARM SYSTEM: N. SYSTEM SHALL BE A CENTRALIZED, ANALOG, ADDRESSABLE, FULLY ELECTRONICALLY SUPERVISED (INCLUDING AUXILIARY SYSTEMS INTERCONNECT WIRING) SYSTEM LISTED BY UL IN COMPLIANCE	engineering MECHANICAL, ELECTRICAL & PLUMBING
	<ul> <li>CONTRACTOR SHALL FURNISH AND INSTALL A #6 AWG GREEN INSULATED COPPER WIRE IN CONDUIT FROM THE MAIN ELECTRICAL GROUNDING BAR TO TELECOMMUNICATIONS GROUNDING BUS BAR.</li> <li>PROVIDE MOUNTING BACKBOARDS FOR COMMUNICATIONS EQUIPMENT. BACKBOARDS SHALL BE</li> </ul>		WITH ALL APPLICABLE NFPA 72 AND OTHER STANDARDS AS WELL AS THE AMERICAN'S WITH DISABILITIES ACT (ADA). ALL FINAL CONNECTIONS, TESTING AND ADJUSTMENTS SHALL BE PERFORMED BY OR UNDER DIRECT SUPERVISION OF AN AUTHORIZED FACTORY REPRESENTATIVE. SYSTEM SHALL BE SIMPLEX, NOTIFIER, SIEMENS, OR APPROVED EQUAL AS ACCEPTED BY THE	15822 Kelly Park Cir Huntersville, NC (704) 439-7038 NC Firm License No. P-2182
	OF 3/4" TYPE AC, EXTERIOR PLYWOOD, PAINTED BOTH SIDES AND ALL EDGES WITH 2 COATS OF GRAY FLAME RETARDANT PAINT. VERIFY SITE LOCATION OF TELEPHONE SERVICES WITH APPROPRIATE VENDOR, PRIOR TO		<ul><li>ENGINEER. SYSTEM SHALL HAVE A 24HR MINIMUM BATTERY BACKUP.</li><li>O. INITIATING DEVICE ACTIVATION SHALL CAUSE OPERATION OF THE PROPER ALARM CIRCUIT IN THE CONTROL PANEL, AND OPERATE ALL AUDIBLE AND VISUAL INDICATING ALARMS. ALL AIR</li></ul>	
LI	SUBMITTING BID. TELEPHONE SERVICE CONDUITS SHALL BE PROVIDED TO THE PROPERTY LINE OR POINT AS DIRECTED BY THE LOCAL UTILITY. GHTING FIXTURES:		HANDLING UNITS SHALL BE STOPPED UPON ANY ALARM INPUT. EACH AIR HANDLER UNIT SHALL BE PROVIDED WITH A SYSTEM CONTROLLED RELAY TO EFFECT SHUTDOWN. ALL ALARM DEVICES AND LAMPS SHALL CONTINUE TO OPERATE UNTIL THE INITIATING DEVICE IS RESET. SUBSEQUENT ALARMS SHALL RESOUND THE SYSTEM. AN AUDIBLE AND VISUAL SIGNAL SHALL INDICATE SYSTEM	
A.	TYPES AND MANUFACTURERS ARE SCHEDULED ON THE PLANS. EQUIVALENT FIXTURES BY OTHERS MAY BE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBJECT TO THE APPROVAL OF THE OWNER AND ENGINEER.		<ul> <li>TROUBLE. THE CONTROL PANEL SHALL PROVIDE FOR ACTIVATING A UL LISTED CENTRAL STATION</li> <li>SIGNAL FOR NOTIFYING THE FIRE DEPARTMENT.</li> <li>P. MANUAL STATIONS SHALL BE NON-CODED, WITH DUAL-ACTION PULL AND KEY TYPE RESET,</li> <li>SEMI-FLUSH MOUNTED. COMBINATION LIGHT AND HORN SIGNALS SHALL BE FLUSH MOUNTED.</li> </ul>	
	ALL FIXTURES SHALL BE U.L. LISTED AND LABELED. LAMPS SHALL BE GENERAL ELECTRIC, PHILIPS, OR OSRAM/SYLVANIA EXCEPT WHERE OTHERWISE NOTED IN THE LIGHTING FIXTURE SCHEDULE OR OTHERWISE NOTED. ALL FIXTURES SHALL BE		WIRING SHALL BE IN CONDUIT AS PREVIOUSLY SPECIFIED, #14 AWG MINIMUM, THHN. ALL J-BOXES USED FOR THE FIRE ALARM SYSTEM SHALL BE PAINTED RED. Q. SPRINKLER SYSTEM TAMPER SWITCHES SHALL BE CONNECTED INTO A COMMON ZONE WHICH	
	EQUIPPED WITH LAMPS. BALLASTS SHALL BE AS INDICATED IN THE LIGHTING FIXTURE SCHEDULE OR AS OTHERWISE NOTED. ALL FIXTURES SHALL BE PROVIDED FOR PROPER VOLTAGE BASED ON THE CIRCUIT ASSIGNMENT		SHALL DISTINGUISH BETWEEN A CONDUIT FAULT AND A CLOSED VALVE. A CLOSED VALVE SHALL BE INDICATED AS AN ALARM CONDITION, BUT WILL NOT ACTIVATE THE AUDIO-VISUAL DEVICES AND SHALL CAUSE A SUPERVISORY SIGNAL TO BE TRANSMITTED TO THE CENTRAL STATION. R. CONDUCTORS SHALL BE PLENUM-RATED AND INSTALLED IN CONDUIT AND INSTALLED IN	- PRELIMINARY - NOT FOR CONSTRUCTION
F.	INDICATED ON THE PLANS. CATALOG NUMBERS ARE FOR GENERAL IDENTIFICATION OF FIXTURES ONLY. ALL RELATED PARTS, SUCH AS PLASTER RINGS, JUNCTION BOXES, LOUVERS, SHIELDS, MOUNTING STEMS, CANOPIES, CONNECTORS, STRAPS, NIPPLES, HARDWARE, ACCESSORIES, ETC., TO FIT THEM PROPERLY TO THE		COMPLIANCE WITH NFPA 70, ARTICLE 760; IN ADDITION TO WIRING METHODS 300.4. S. ALL FIRE ALARM WIRING SHALL BE CLASS B. T. PROVIDE ALL REQUIRED MODULES, POWER EXTENDERS, PROGRAMMING, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM.	
	CONSTRUCTION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTRACTOR SHALL PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT FIXTURES IN TYPE OF CEILING OR WALL AS SPECIFIED IN ARCHITECTURAL FINISH SCHEDULES REGARDLESS OF CATALOG NUMBER		<ul> <li>U. SUBMIT FIRE ALARM SHOP DRAWINGS CONSISTING OF PRODUCT DATA, TO THE ENGINEER AND FOR APPROVAL.</li> <li>V. FILL OUT NFPA 72 CERTIFICATION REPORT AND SUBMIT TO ENGINEER AND AUTHORITY HAVING</li> </ul>	
	<ul> <li>GIVEN.</li> <li>ALL FIXTURES SHALL BE GROUNDED PER THE NEC.</li> <li>FIXTURES CONNECTED WITH FLEX TO THE RIGID RACEWAY PORTION OF THE WIRING SYSTEM</li> <li>SHALL CARRY A GREEN BONDING JUMPER WITHIN THE FLEX. THE JUMPER SHALL BE FASTENED TO</li> </ul>		JURISDICTION. W. WARRANTY - ALL WORK PERFORMED AND ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS AND SHALL REMAIN SO FOR A PERIOD OF AT LEAST TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY THE PROFESSIONAL ENGINEER	
I	BOTH THE FIXTURE AND THE RACEWAY SYSTEM WITH A STEEL CITY "G" CLIP OR APPROVED EQUIVALENT. PHASE AND GROUND CONDUCTORS RUN IN FLEX SHALL BE #12 AWG MINIMUM. MAXIMUM FLEX LENGTH SHALL BE 6'-0". SURFACE-MOUNTED FLUORESCENT FIXTURES INSTALLED ON COMBUSTIBLE MATERIAL SHALL BE		AND/OR OWNER. THE FULL COST OF MAINTENANCE, LABOR, AND MATERIALS REQUIRED TO CORRECT ANY DEFECT DURING THIS TWO YEAR PERIOD SHALL BE IMMEDIATELY CORRECTED AT NO ADDITIONAL COST TO THE OWNER. ANY DEFECTS THAT RENDER THE SYSTEM INOPERATIVE SHALL BE REPAIRED WITHIN 24 HOURS OF THE OWNER NOTIFYING THE CONTRACTOR. OTHER	
J.	MOUNTED AT LEAST 1/4" FROM THE SURFACE OF THE MATERIAL, EXCEPT FOR FIXTURES WHICH ARE PLAINLY MARKED AS U.L. APPROVED FOR MOUNTING DIRECTLY TO SUCH SURFACES. MOUNT ALL FIXTURES PLUMB AND SQUARE WITH ROWS ALIGNED.		DEFECTS SHALL BE REPAIRED WITHIN 48 HOURS OF THE OWNER NOTIFYING THE CONTRACTOR. X. AUDIBLE DEVICES WITHIN SLEEPING ROOMS SHALL PROVIDE A SQUARE WAVE 520HZ TONE COMPATIBLE WITH NFPA 72 18.4.5.3.	
	FLUORESCENT LUMINAIRES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS WITHER INTEGRAL OR EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G). SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF FIXTURES.		<ul> <li>PROVIDE ALL REPROGRAMMING AND/OR REWORK AND/OR REPLACEMENT OF EXISTING FIRE ALARM PANEL AS REQUIRED.</li> <li>FIRE STOPPING:</li> </ul>	SIGNATURE:
N.	<ul> <li>CONTRACTOR SHALL COORDINATE FIXTURE TYPE AND TRIM WITH CEILING CONSTRUCTION AND ADJUST ACCORDINGLY WITHOUT ADDITIONAL EXPENSE.</li> <li>ALL LIGHTING FIXTURES SHALL BE THERMALLY PROTECTED PER THE NEC.</li> <li>FIXTURES IN CONTACT WITH INSULATION SHALL BE IC RATED.</li> </ul>		<ul> <li>A. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE SEALED WITH RATED MATERIALS MEETING ASTM E-814.</li> <li>B. PROVIDE FIRESTOPPING DEVICE(S) OR SYSTEM(S) WHICH HAVE BEEN TESTED AND LISTED AS</li> </ul>	South One.
	FOR RECESSED LIGHTING FIXTURES IN FIRE RATED CEILINGS, PROVIDE A MANUFACTURER APPROVED AND LISTED FIRE RATED COVER/ASSEMBLY OVER THE FIXTURE TO MAINTAIN THE INTEGRITY OF THE CEILING FIRE RATING. ANY LIGHTING FIXTURES INSTALLED UNDER THE FIRE RATED CAP SHALL BE SUITABLE FOR THE INSTALLATION.		COMPLYING WITH ASTM E-814. INSTALL THE DEVICE(S) OR SYSTEM(S) IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE THE APPROPRIATE DEVICE(S) OR SYSTEM(S) WITH AN 'F' RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED. C. DEVICE(S) AND/OR SYSTEM(S) SHALL BE BY HILTI, 3M OR EQUIVALENT.	CLIENT:
	GHTING CONTROLS:	17.	<u>SEISMIC:</u>	The Orchards at Naples Road 341 N Main Street
А.	FURNISH AND INSTALL WHERE SHOWN AN ELECTRONIC TIME CONTROLLER AS MANUFACTURED BY TORK (NSI), PARAGON, INTERMATIC, OR APPROVED EQUAL. CONTACTS SHALL BE SPST OR AS INDICATED, RATED 120/277V AT 20A BALLAST LOAD, AND MINIMUM 30,000 SWITCHING CYCLES. PROVIDE WITH THE NUMBER OF CHANNELS INDICATED (MINIMUM 2 CHANNELS) OR AS REQUIRED TO MEET THE INTENT OF THE DRAWINGS. EACH CHANNEL SHALL BE INDIVIDUALLY PROGRAMMABLE WITH 128 ON-OFF OPERATIONS PER WEEK PLUS FOUR SEASONAL SCHEDULES TO MODIFY THE BASIC PROGRAM AND A HOLIDAY SCHEDULE THAT OVERRIDES THE WEEKLY OPERATION. THE CONTROLLER SHALL BE PROVIDED WITH A PHOTOELECTRIC SENSOR,		A. THE ELECTRICAL CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROVIDING SEISMIC SUPPORT AND BRACING OF ELECTRICAL COMPONENTS TO RESIST THE EFFECTS OF EARTHQUAKES ON THE ELECTRICAL SYSTEM AS WELL AS ANY REQUIRED SPECIAL INSPECTIONS BASED ON THE SPECIFIC GEOGRAPHIC LOCATION AS REQUIRED. THE SEISMIC RESTRAINTS AND SPECIAL INSPECTIONS SHALL MEET ALL APPLICABLE STATE AND LOCAL BUILDING CODE REQUIREMENTS AS WELL AS ASCE-7 REQUIREMENTS.	Hendersonville, NC 28792 Luis Graef: President
B.	ASTRONOMIC DIAL, AND A BATTERY BACKED-UP, NON-VOLITILE MEMORY FOR SCHEDULES AND TIME CLOCK. LIGHTING CONTACTORS SHALL SWITCH LOADS AT THE VOLTAGE AND AMPERE RATING INDICATED AND SHALL HAVE THE NUMBER OF POLES INDICATED ON THE DRAWINGS OR AS REQUIRED. THE		ELECTRICAL COORDINATION WITH OTHER TRADES: A. THE ELECTRICAL CONTRACTOR SHALL CONNECT AND/OR PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT SUPPLIED BY OTHERS APPLICABLE TO THE PROJECT, INCLUDING BUT NOT LIMITED TO,	
C.	CONTACTOR AND CONTACTS SHALL BE CONTINUOUSLY RATED FOR THE LOAD SERVED, INCLUDING TUNGSTEN FILAMENT, INDUCTIVE, AND HIGH-INRUSH BALLAST LOADS. ALL LIGHTING CONTACTORS SHALL BE ELECTRICALLY HELD AND BE INSTALLED IN A NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.		MECHANICAL, PLUMBING, FIRE PROTECTION AND SUPPRESSION, OWNER FURNISHED, KITCHEN, LABORATORY, ETC. UNLESS OTHERWISE NOTED. B. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONNECTIONS PRIOR TO ROUGH-IN USING APPROVED CATALOG SHEETS AND SHOP DRAWINGS.	Orchard
	QUIPMENT IDENTIFICATION: PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT SUPPLIED FOR THE		C. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANUAL MOTOR STARTER SWITCHES, DISCONNECT SWITCHES, RECEPTACLES, ETC. TO MECHANICAL AND PLUMBING EQUIPMENT. ALL STARTERS, OTHER THAN MANUAL STARTER SWITCHES, SHALL BE PROVIDED BY OTHERS, BUT INSTALLED BY THE ELECTRICAL CONTRACTOR.	
Λ.	PROJECT, INCLUDING BUT NOT LIMITED TO, WIRING TROUGHS, SAFETY SWITCHES, DISCONNECTS, TRANSFORMERS, PANELBOARDS, SWITCHBOARDS, ETC. NAMEPLATE SHALL INDICATE THE DEVICE NAME, SYSTEM VOLTAGE (VOLTAGE/PHASE/WIRE), AND UPSTREAM DEVICE AND CIRCUIT. PROVIDE NAMEPLATES FOR CIRCUIT BREAKERS IN SWITCHGEARS, SWITCHBOARDS AND DISTRIBUTION PANELS.		<ul> <li>D. ALL DISCONNECT SWITCHES AND FUSE SIZES SHALL BE COORDINATED WITH SHOP DRAWINGS PRIOR TO ORDERING OR INSTALLING. ANY EQUIPMENT INSTALLED INCORRECTLY BECAUSE OF LACK OF COORDINATION WILL BE REMOVED AND INSTALLED CORRECTLY AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.</li> <li>E. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT RUNS AND LIGHT FIXTURE</li> </ul>	a Ko
B.	NAMEPLATE COLORS SHALL BE AS FOLLOWS:         120/208V EQUIPMENT       BLUE SURFACE WITH WHITE CORE         FIRE ALARM SYSTEM       BRIGHT RED SURFACE WITH WHITE CORE         SECURITY SYSTEMS       BURGUNDY SURFACE WITH WHITE CORE		<ul> <li>LOCATIONS ABOVE THE CEILING WITH OTHER TRADES PRIOR TO INSTALLATION.</li> <li>F. ALL DUCT SMOKE DETECTORS SHALL BE PROVIDED AND CONNECTED BY THE ELECTRICAL CONTRACTOR, BUT INSTALLED BY THE MECHANICAL CONTRACTOR.</li> <li>G. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY OUTLETS FOR HEAT TAPE</li> </ul>	
	TELEPHONE SYSTEMSORANGE SURFACE WITH WHITE COREDATA SYSTEMSBROWN SURFACE WITH WHITE CORETV SYSTEMSPURPLE SURFACE WITH WHITE CORE		CONNECTIONS FOR MECHANICAL SYSTEMS. PROVIDE CLASS B (30mA) GFCI PROTECTION ON THE BREAKER SUPPLYING THE HEAT TAPE. H. THE ELECTRICAL CONTRACTOR SHALL PROVIDE 120V POWER AT EACH HVAC UNIT HAVING A	nc at
	PAGING SYSTEMS WHITE SURFACE WITH BLACK CORE NAMEPLATES UP TO 8 SQUARE INCHES SHALL NOT BE LESS THAN 1/16" THICK. NAMEPLATES LARGER THAN 8 SQUARE INCHES SHALL NOT LESS THAN 1/8" THICK. LETTERING HEIGHT SHALL BE 1/2" MINIMUM.		CONTROLS POWER SUPPLY. CIRCUIT(S) SHALL BE DEDICATED 20A SERVING A MAXIMUM OF 10 HVAC UNITS PER CIRCUIT. COORDINATE ALL LOCATIONS WITH THE MECHANICAL CONTRACTOR.	rchards partmer dersonville,
	NAMEPLATES SHALL BE ATTACHED WITH SELF-DRILLING/SELF-TAPPING SCREWS, EXCEPT RIVETS SHALL BE USED WHERE END OF SCREW IS NOT PROTECTED. QUANTITY AS FOLLOWS: UP TO 5 SQUARE INCHES: 2 SCREWS. 5 TO 12 SQUARE INCHES: 4 SCREWS. ABOVE 12 SQUARE INCHES: 6 SCREWS.		TESTING AND DOCUMENTATION: A. THE ELECTRICAL CONTRACTOR SHALL ENGAGE THE GEAR MANUFACTURER OR ANOTHER INDEPENDENT 3RD PARTY TO PROVIDE A COMPLETE FAULT CURRENT, COORDINATION, AND ARC-FLASH HAZARD ANALYSIS STUDY AND REPORT, COMPLETE WITH ARC-FLASH HAZARD LABELS	Orchards Apartmen Jendersonville,
	ISCONNECTS: DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE IN NEMA 1 ENCLOSURES, UNLESS		<ul> <li>FOR ALL EQUIPMENT.</li> <li>B. TESTING AND DOCUMENTATION SHALL BE PROVIDED AS FOLLOWS:</li> <li>20) ALL CONDUCTORS SHALL BE MEGGERED BEFORE FINAL CONNECTIONS.</li> <li>21) THE GROUND SYSTEM SHALL BE TESTED AND VERIFIED TO BE 25 OHMS OR LESS</li> </ul>	
	OTHERWISE NOTED, FUSED OR NON-FUSED AS INDICATED. SWITCHES SHALL HAVE REJECTION-TYPE FUSE CLIPS. SWITCHES SHALL BE BY EATON, SQUARE-D, GENERAL ELECTRIC, OR APPROVED EQUAL. WHERE FED FROM A LOAD CENTER, GENERAL-DUTY SWITCHES SHALL BE PERMITTED.		<ul> <li>RESISTANCE-TO-GROUND.</li> <li>22) A PRIMARY INJECTION TEST SHALL BE PERFORMED ON ALL CIRCUIT BREAKERS RATED 225A OR HIGHER.</li> <li>23) GFCI EQUIPPED BREAKERS SHALL BE PERFORMANCE TESTED.</li> </ul>	' #   REVISIONS   DA
C.	FUSES LESS THAN 60A SHALL BE CLASS RK5, DUAL-ELEMENT, TIME-DELAY WITH INDICATION FUSES GREATER THAN 60A SHALL BE CLASS J, DUAL-ELEMENT, TIME-DELAY WITH INDICATION. A SET OF 3 SPARE FUSES OF EACH SIZE AND TYPE SHALL BE FURNISHED TO THE OWNER		<ol> <li>23) GFCI EQUIPPED BREAKERS SHALL BE PERFORMANCE TESTED.</li> <li>24) LIGHTING CONTROL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION OF SETPOINTS.</li> <li>25) GENERATOR TESTING SHALL INCLUDE AN 8-HOUR, 100% LOAD BANK AND TRANSIENT TESTING. POWER QUALITY ANALYZERS SHALL BE USED FOR WAVEFORM CAPTURE AND TRANSIENT RESPONSE DOCUMENTATION.</li> <li>26) UPS TESTING SHALL INCLUDE AN 8-HOUR, 100% LOAD BANK, TRANSIENT TESTING, AND</li> </ol>	
	ANELBOARDS: PANELBOARDS SHALL BE PROVIDED AS MANUFACTURED BY EATON, SQUARE-D, GENERAL		<ul> <li>BATTERY DISCHARGE TESTING. POWER QUALITY ANALYZERS SHALL BE USED FOR WAVEFORM CAPTURE AND TRANSIENT RESPONSE DOCUMENTATION.</li> <li>27) ATS TESTING SHALL INCLUDE TRANSFER FUNCTIONS, VERIFICATION OF</li> </ul>	
	ELECTRIC, OR APPROVED EQUAL. ALL NEW EQUIPMENT FOR THE PROJECT SHALL BE BY THE SAME MANUFACTURER. LOAD CENTER TYPE PANELBOARDS SHALL BE USED WHERE THE PANELBOARD SERVES A DWELLING UNIT. ALL BUSSING, INCLUDING NEUTRAL AND GROUND, SHALL BE COPPER.		TIMER/PICKUP/DROP-OUT SETPOINTS AND LOAD/NO-LOAD TEST OPERATION.	
C. D.	ALL BREAKERS SHALL BE AUTOMATIC THERMAL-MAGNETIC TYPE MOLDED CASE BOLT-ON TYPE, CALIBRATED FOR 40 DEGREE C, OR AMBIENT COMPENSATION, UNLESS OTHERWISE NOTED. PANELS SHALL BE FULLY RATED (AIC). NO SERIES AIC RATINGS ARE ALLOWED. PANELS SHALL HAVE FULL SIZE EQUIPMENT GROUNDING BARS AND NEUTRAL BARS, EXCEPT			
F.	WHERE INDICATED TO BE 200%. ALL PANELBOARD AND BREAKER LUGS SHALL BE SIZED AND RATED PER THE CONDUCTOR SIZE AND MATERIAL.			DWG INFO : ISSUE DATE: 4/11/25
	<ul> <li>LIGHTING AND APPLIANCE PANELS (100A-600A) SHALL HAVE FRONT ACCESSIBLE HINGED DOOR-IN-DOOR COVERS WITH DEAD FRONT, SHALL BE 20" WIDE MINIMUM WITH MINIMUM 4" WIDE WIRING GUTTERS.</li> <li>DISTRIBUTION PANELS (600A-1200A) SHALL HAVE FRONT ACCESSIBLE DEAD FRONT COVERS.</li> </ul>			PROJECT #: 22105 DRAWN BY: MFL CHECKED BY: JK
I. J. K	PROVIDE HANDLE LOCK-ON DEVICES FOR ALL CIRCUIT BREAKERS CONNECTED TO EMERGENCY, EXIT, NIGHT LIGHTING, FIRE ALARM, TELEPHONE BOARDS, AND SECURITY SYSTEMS. BREAKERS USED FOR SWITCHING SHALL BE SWITCHING DUTY (SWD) RATED. BREAKERS USED FOR HEATING, AIR-CONDITIONING AND/OR REFRIGERATION SHALL BE HACR			DWG DECRIPTION :
	RATED. GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL SHALL BE PROVIDED FOR ALL LOCATIONS PER NEC 210.8, INSTALLED IN A READILY ACCESSIBLE LOCATION. WHERE A DEVICE LOCATION IS NOT ACCESSIBLE, THE GFCI PROTECTION SHALL BE PROVIDED WITH THE			ELECTRICAL SPECIFICATIONS
М	BREAKER SERVING THE DEVICE. ARC-FAULT CIRCUIT-INTERRUPTER (AFCI) PROTECTION SHALL BE PROVIDED FOR ALL LOCATIONS PER NEC 210.12, INSTALLED IN A READILY ACCESSIBLE LOCATION. THIS INCLUDES ALL 120V, 15A AND 20A BRANCH CIRCUITS IN DWELLING UNITS, DORMITORY/STUDENT HOUSING UNITS AND			
	HOTEL/MOTEL GUEST ROOMS/SUITES AS DEFINED BY THE NEC.			E-02

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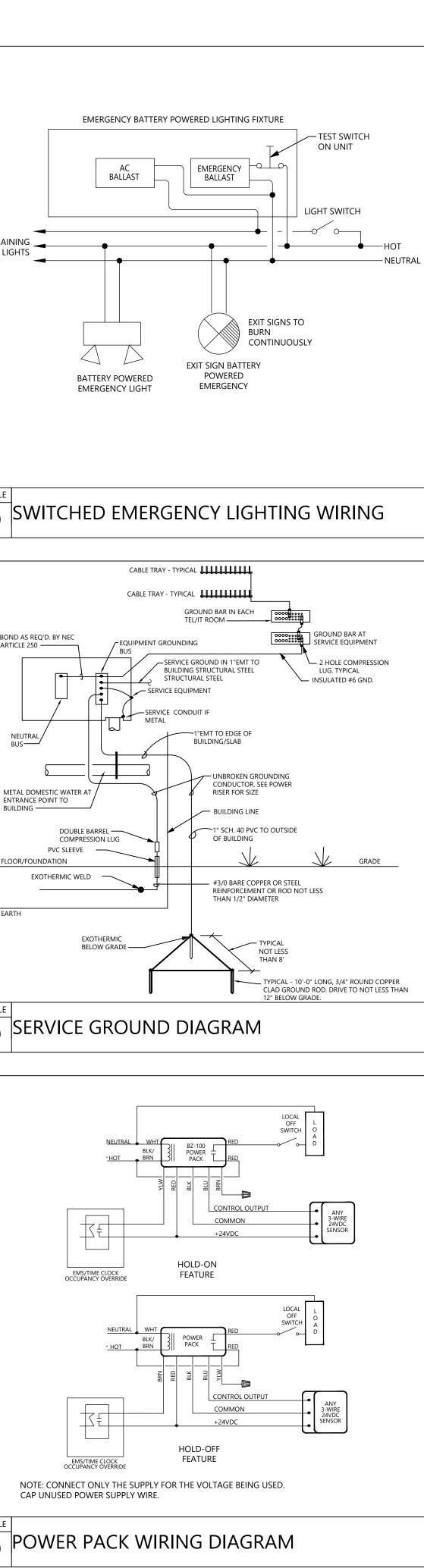
DATE

WILDE #: 24-12

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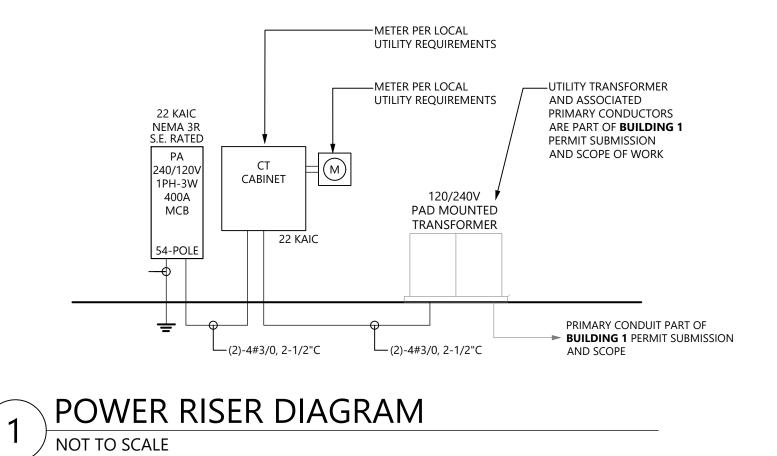




		EQUIPMENT CHARACTERISTICS			FLA		моср	FEEDER	C	DISCONNE	CT SWITCH	4	
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	FLA	MCA		FEEDER	SIZE	POLE	FUSE	NEMA	NOTES
AHU-A	AIR HANDLER	240	1	-	-	31.5	35	3#8,1#10G,1"C	60	2	35	1	1,3
<u>AHU-B</u>	AIR HANDLER	240	1	-	-	31.5	35	3#8,1#10G,1"C	60	2	35	1	1,3
<u>HP-A</u>	HEAT PUMP	240	1	-	-	31.8	35	3#8,1#10G,1"C	60	2	35	3R	1
<u>HP-B</u>	HEAT PUMP	240	1	-	-	31.8	35	3#8,1#10G,1"C	60	2	35	3R	1
ECUH-A	WALL UNIT HEATER	240	1	2.00	-	-	15	3#12,1#12G,3/4"C	INTEGRAL				1
<u>EF-A</u>	INLINE EXHAUST FAN	120	1	-	-	-	20	2#12,1#12G,3/4"C	1	MOTOR SNAP SWITCH			1,4
<u>EF-B</u>	EXHUAST FAN	120	1	-	-	-	20	2#12,1#12G,3/4"C	1	MOTOR SN	IAP SWITCH	1	1,2
<u>EWH-1</u>	WATER HEATER	240	1	5.10	-	-	30	2#10,1#10G/3/4"C	60	2	30	1	1
IOTES:	·								- -	·		· · · ·	
1	COORDINATE ALL ROUGH-IN LO	CATIONS, CON	INECTION T	YPES, BREAKER	SIZES, ETC	. WITH API	PROVED ME	CHANICAL EQUIPMENT SUB	MITTALS PR	IOR TO RC	UGH-IN A	ND	
	INSTALLATION. ALL ROUGH-INS S	SHALL BE REVI	EWED AND /	APPROVED BY N	/ECHANIC	AL CONTR	ACTOR.						
2	FAN POWERED VIA LOCAL LIGHTI	NG CIRCUIT. C	CONNECT TO	SWITCH SHOW	VN ON EN	ILARGED U	NIT PLANS						
3					DETECTIO								

3 PROVIDE POWER FOR CONDENSATE REMOVAL PUMP AND WATER LEVEL DETECTION DEVICE 4 FAN TO OPERATE CONTINUOSLY.

TYPE	DESCRIPTION	LUMENS	ССТ	WATTS	DRIVER	VOLTAGE	MANUFACTURER	MODEL	REMARKS				
А	6" RECESSED LED DOWNLIGHT	2,000	3500K	21W	0-10V DIMMING	UNIV	PORTFOLIO	LD6C	MINIMUM 10% DIMMING DLC/ENERGY STAR LISTED				
В	6" PENDANT CYLINDER	2,000	3500K	25W	INTEGRAL LED DRIVER	UNIV	HALO	HCC6	PENDANT MOUNTED ENERGY STAR LISTED				
С	6" RECESSED DOWNLIGHT, ADJUSTABLE	2,000	3500K	21W	0-10V DIMMING	UNIV	PORTFOLIO	LDA6A	MINIMUM 10% DIMMING				
D	SURFACE MOUNTED LED CANOPY LIGHT	2,000	3500K	28W	INTEGRAL LED DRIVER	UNIV	EATON	TT	CONDUIT SHALL PENETRATE FROM THE TOP OF THE CANOPY UL LISTED WET LOCATION DLC LISTED				
E1	EXTERIOR EMERGENCY BATTERY EGRESS LIGHT AIMABLE	-	3500K	2W	INTEGRAL LED DRIVER	120V	EXIT LIGHT CO.	EL-LWET	TEST SWITCH PROVIDED SEALED 90 MINUTE BATTERY WHITE				
E2	EXTERIOR EMERGENCY BATTERY EGRESS LIGHT AND EXIT COMBO	-	3500K	3W	INTEGRAL LED DRIVER	120V	EXIT LIGHT CO.	WLFCOMBO	TEST SWITCH PROVIDED SEALED 90 MINUTE BATTERY WET LOCATION LISTED RATED FOR OUTDOOR USE WHITE HOUSING, RED LETTERING				
F	INTERIOR/EXTERIOR EMERGENCY EGRESS (LOW PROFILE)	-	3500K	17W	INTEGRAL LED DRIVER	UNIV	LIGHTALARMS	CAMRAY	UL LISTED WET LOCATION LS CODE 101 COMPLIANT PROVIDE 90 MIN. REMOTE BATT.				
G	4 FT. LED STRIP	5,000	3500K	42W	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	UNIV	COOPER	SNX	PROVIDE CHAIN FOR PENDANT MOUNTING PROVIDE WIRE GUARD LENSED DLC LISTED				
OTES:													
1	ALL FIXTURES SHALL BE LED UNLE					OOK UNLESS OTH	IERWISE NOTED.						
2	LED DRIVERS SHALL BE PROVIDED												
3													
4	FIXTURES IN FIRE RATED CEILING												
5 6	SUSPEND ALL FOUR CORNERS WI												
7	PROVIDE INTEGRAL SURGE PROTE												
8	DIMMING OF FIXTURES SHALL BE							SWITCHES WITH APPROVED F					
9	THE CONTRACTOR SHALL VERIFY							SWITCHES WITT ATTROVED I	INTOKES TRIOK TO OKDERING.				
10	DURING THE BID PROCESS, THE C												
10	NO SUBSTITUTIONS WILL BE ALLO												
12	ALL EXPEDITED EXPENSES SHALL												
13	FIXTURES TO BE INSTALLED IN CE		Polari din 2 mila ne tor chi della			JLATION IN CON	TACT WITH CEILING SURFACE	. SHALL BE IC RATED BY MANI	UFACTURER.				
	LED DRIVERS LOCATED IN UNCON							,					
14					OIL DE DE OILEED I.								
14					and the second	N TYPE OF FIXTUR	RE, LED DRIVER, BALLAST. ETC	C. EMERGENCY BACKUP SHAL	L BE DUAL INPUT FOR BOTH SWITCHING				





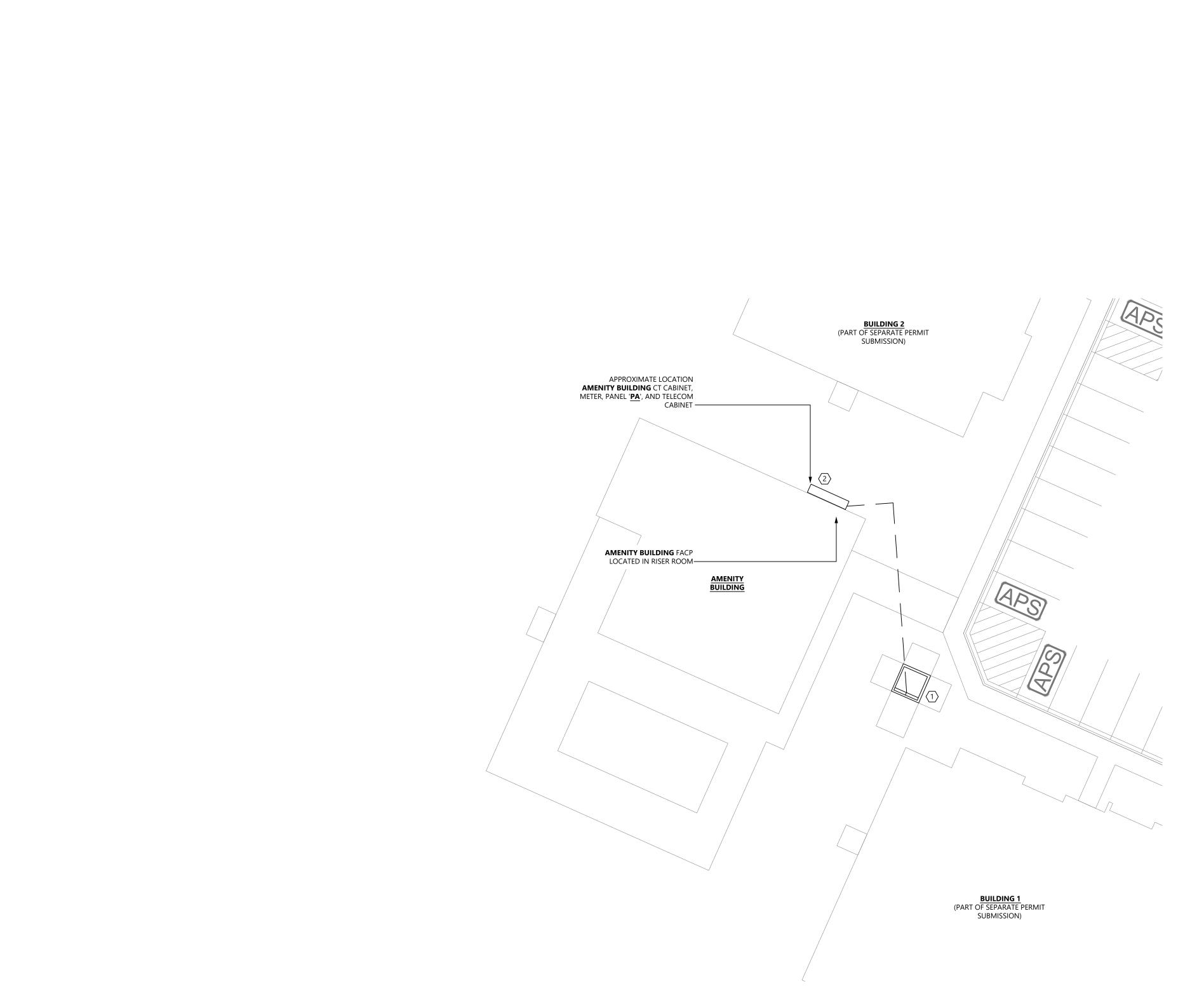
AND CHARGING. PROVIDE UNSWITCHED "HOT" FROM LOCAL CIRCUIT UNLESS OTHERWISE INDICATED ON PLANS. PROVIDE WITH INDICATOR LIGHT. INSTALL LED INDICATOR ON LIGHT FIXTURE UNLESS DECORATIVE. DECORATIVE FIXTURES SHALL HAVE INDICATOR PLACED AT LOCAL CEILING. BODINE, PHILLIPS, POWER SENTRY OR EQUAL. 16 CONTRACTOR SHALL INCLUDE IN BID LABOR AND MATERIAL FOR UP TO (3) ADDITIONAL EXIT SIGNS AND (5) ADDITIONAL EMERGENCY BUGEYE FIXTURES AS REQUIRED BY LOCAL AHJ.

OAD NAME EC - GENERAL EC - GENERAL EC - OFFICE EC - OFFICE EC - IT BOARD EC - GYM EC - BIKE EC - BIKE EC - BIKE EC - TREADMILL EC - TREADMILL EC - BIKE EC - GENERAL EC - GENERAL EC - GENERAL MC ( <b>NOTE #7</b> ) MC ( <b>NOTE #7</b> ) EC - MAINTENANCE	1 3 5 7 9 11 13 15 17 19 21 23 25 27					2	2 2 4 6 8 10	LOAD NAME REFRIGERATOR ( <b>NOTE #7</b> ) REC - COUNTERTOP REC - COUNTERTOP DISHWASHER ( <b>NOTE #7</b> ) DISPOSAL	20 20 20 20 20 20 20 20 20	N <sup>1</sup> R <sup>1</sup> 12 12 12 12 12	LOAD KVA 0.50 0.36 0.36
EC - GENERAL EC - OFFICE EC - OFFICE EC - IT BOARD EC - GYM EC - BIKE EC - BIKE EC - TREADMILL EC - TREADMILL EC - TREADMILL EC - GENERAL EC - GENERAL EC - GENERAL WC ( <b>NOTE #7</b> ) WC ( <b>NOTE #7</b> )	3 5 7 9 11 13 15 17 19 21 23 25						4 6 8	REC - COUNTERTOP REC - COUNTERTOP DISHWASHER ( <b>NOTE #7</b> )	20 20 20	12 12 12	0.36 0.36
EC - OFFICE EC - OFFICE EC - IT BOARD EC - GYM EC - BIKE EC - BIKE EC - TREADMILL EC - TREADMILL EC - TREADMILL EC - BIKE EC - GENERAL EC - GENERAL EC - GENERAL MC ( <b>NOTE #7</b> ) MC ( <b>NOTE #7</b> )	5 7 9 11 13 15 17 19 21 23 25						6 8	REC - COUNTERTOP DISHWASHER ( <b>NOTE #7</b> )	20 20	12 12	0.36
EC - OFFICE EC - IT BOARD EC - GYM EC - BIKE EC - BIKE EC - TREADMILL EC - TREADMILL EC - TREADMILL EC - BIKE EC - GENERAL EC - GENERAL WC ( <b>NOTE #7</b> ) WC ( <b>NOTE #7</b> )	7 9 11 13 15 17 19 21 23 25						8	DISHWASHER ( <b>NOTE #7</b> )	20	12	
EC - IT BOARD EC - GYM EC - BIKE EC - BIKE EC - TREADMILL EC - TREADMILL EC - BIKE EC - GENERAL EC - GENERAL EC - GENERAL WC ( <b>NOTE #7</b> )	9 11 13 15 17 19 21 23 25										0.75
EC - GYM EC - BIKE EC - BIKE EC - TREADMILL EC - TREADMILL EC - BIKE EC - GENERAL EC - GENERAL MC ( <b>NOTE #7</b> ) WC ( <b>NOTE #7</b> )	11 13 15 17 19 21 23 25						10	DISPOSAL	20		0.75
EC - BIKE EC - BIKE EC - TREADMILL EC - TREADMILL EC - BIKE EC - GENERAL EC - GENERAL WC ( <b>NOTE #7</b> ) WC ( <b>NOTE #7</b> )	13 15 17 19 21 23 25									12	0.78
EC - BIKE EC - TREADMILL EC - TREADMILL EC - BIKE EC - GENERAL EC - GENERAL MC ( <b>NOTE #7</b> ) WC ( <b>NOTE #7</b> )	15 17 19 21 23 25						12	RANGE HOOD	50	6	4.00
EC - TREADMILL EC - TREADMILL EC - BIKE EC - GENERAL EC - GENERAL WC ( <b>NOTE #7</b> ) WC ( <b>NOTE #7</b> )	17 19 21 23 25					~	14			6	4.00
EC - TREADMILL EC - BIKE EC - GENERAL EC - GENERAL WC ( <b>NOTE #7</b> ) WC ( <b>NOTE #7</b> )	19 21 23 25						16	RANGE HOOD	20	12	0.40
EC - BIKE EC - GENERAL EC - GENERAL WC ( <b>NOTE #7</b> ) WC ( <b>NOTE #7</b> )	21 23 25		$\rightarrow$			~	18	FACP (NOTE #8)	20	12	1.00
EC - GENERAL EC - GENERAL NC ( <b>NOTE #7</b> ) NC ( <b>NOTE #7</b> )	23 25						20		20	12	1.10
EC - GENERAL NC ( <b>NOTE #7</b> ) NC ( <b>NOTE #7</b> )	25					~	22	FIRE ALARM BELL	20	12	0.10
NC (NOTE #7) NC (NOTE #7)							24	LIGHTING	20	12	0.90
WC ( <b>NOTE #7</b> )	21					\	26		20	12	0.82
· · · ·				_			28		20	10	0.70
EC - MAINTENANCE	29					<u></u>	30	GPS UNITS	20	10	0.45
	31		$\square$				32 34	EXHAUST FAN EF-A	20	12 12	0.10
HU-A	35						36	ECUH-A	20	12	1.00
	37						38			12	1.00
HU-B			, 					ECUH-A	20		1.00
	41		$\rightarrow$				42		20	12	1.00
P-A	43		$\searrow$	_			44		20	12	1.00
P-B	45					~_	46	GPS UNITS	20	10	0.45
-		$\square$	<u>}_</u>				48			12	1.00
WH-1						`					0.00
2ARF											0.00
			SUE	3 TOTA	LS						23
Conn. D.F	. Dmd.	OAD									
3.5	1.25 4.	.4					CON	NECTED			
6.0	1.00 6.	.0 L1	= 3	33.6	kVA		279.9	AMPS			
		_	= 3	33.7	kVA		280.8	AMPS			
		_			1						
		_									
		_	5	v <del>4.4</del>	күА		200.5				
		-				DEN	1AND AT	125%			
		_	2	42.2	kVA						
0.0	1.00 0.	.0 L2=	2	43.0	kVA		358.1	AMPS			
	3.5         6.0         24.4         0.0         0.1         0.0         7.0         0.0         5.1         21.2         0.0         0.1         0.0         5.1         21.2         0.0         4.1         0.0         5.1         21.2         0.0         0.0         4.1         BE AS REQ'D PER PANEL AIC R         ATED - SERIES RATINGS NOT ALLOW         . GND AND NEUTRAL, SHALL BE COI	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	H0-B       39         IP-A       41         IP-B       45         WH-1       51         PARE       53         IP-B       6.0         IP-B       53         IP-B       47         IP-B       51         IP-RE       53         IP-RE       0.0         IP-RE       0.0         IP-RE       1.00         IP-RE       1.00	H0-B       39         IP-A       41         IP-B       45         WH-1       51         PARE       53         VH-1       51         PARE       53         VU       0.0         100       0.0         1100       0.0	HU-B       39       41         IP-A       43       43         IP-B       45       47         WH-1       49       47         PARE       53       53         SUB TOTA       51       53         PARE       53       53         SUB TOTA       0AD PER PHASE         3.5       1.25       4.4         6.0       1.00       6.0         1.00       1.00       6.0         1.1       1.00       0.1         0.0       0.05       0.0         1.1.00       0.1       1.00         1.1       1.00       1.1         3.5       1.25       4.4         1.00       1.00       1.1         3.5       1.25       4.4         1.00       1.00       1.1         3.3.6       1.2       1.1         1.1       3.8       1.2         1.1       3.8       1.2         1.1       3.8       1.2         1.1       3.8       1.2         1.1       3.1       1.00         1.1       3.8       1.2         1.1       3.8 <td>H0-B       39       41         IP-A       41       43         IP-B       45       45         WH-1       49       47         PARE       53       53         SUB TOTALS         Ond. D.F. Dmd. OAD PER PHASE         SUB TOTALS         SUB TOTALS         Ond. 1.00         OAD PER PHASE         OHD. 0.0         OHD. 0.0</td> <td>HU-B       39       41         41       43         IP-A       43         45       47         47       49         47       49         MH-1       51         PARE       53         SUB TOTALS         SUB TOTALS         Conn.       D.F.         Dmd.       OAD PER PHASE         3.5       1.25         44       1.00         24.4       1.00         24.4       1.00         24.4       1.00         24.4       1.00         24.4       1.00         21.1       1.00         0.0       0.0         0.1       0.0         0.1       0.0         0.0       0.50         0.0       0.0         0.1       0.0         0.0       0.0         0.1       0.0         1.00       5.1         21.2       1.00         21.2       1.00         21.2       43.0         43.0       KVA         43.0       KVA         43.0       KVA</td> <td>HU-B       39       40         IP-A       41       42         IP-A       41       42         IP-B       45       46         WH-1       49       40         PARE       53       54         SUB TOTALS         OAD PER PHASE         CONI         6.0       1.00       6.0         1.25       4.4       CONI         6.0       1.00       6.0       L1=       33.6       kVA       279.9         24.4       1.00       24.4       L2=       33.7       kVA       280.8         0.0       1.00       0.0       L2=       34.4       kVA       286.5         0.0       0.50       0.0       L2=       34.4       kVA       286.5         0.0       0.0       1.00       0.0       L2=       43.0       kVA       358.1         Allos       kVA</td> <td>HO-B       39       40       ECUH-A         IP-A       41       42       ECUH-A         IP-A       43       44       ECUH-A         IP-B       45       46       GPS UNITS         WH-1       49       50       SPARE         S1       51       52       SPARE         PARE       53       54       SPARE         SUB TOTALS         SUB TOTALS         ONNECTED         3.5       1.25       4.4       CONNECTED         6.0       1.00       6.0       L1=       33.6       KVA       279.9 AMPS         24.4       1.00       24.4       L2=       33.7       KVA       280.8 AMPS         0.0       1.00       0.0       0.0       100       0.0       100         0.1       1.00       0.1       DEMAND       280.6 AMPS       280.6 AMPS         0.0       0.55       0.0       L1=       33.8       KVA       281.6 AMPS         21.2       1.00       21.2       L1=       42.2       KVA       358.1 AMPS         0.0       0.0       0.0       1.00       0.0       282.0 AMPS</td> <td>HI-3     39     40     ECOH-A     20       P-A     41     42     ECUH-A     20       IP-B     45     46     GPS UNITS     20       WH-1     49     48     IT CABINET     20       WH-1     51     52     SPARE     20       PARE     51     52     SPARE     20       VUB     51     52     SPARE     20       VUB     51     54     SPARE     20       SUB     TOTALS     SUB     54     SPARE     20       SUB     1.00     6.0     L1=     33.6     KVA     279.9     AMPS       24.4     1.00     24.4     1.00     24.4     L2=     33.7     KVA     280.8     AMPS       0.0     1.00     0.0     1     DEMAND     280.8     AMPS       0.0     0.0     1.00     0.1     DEMAND AT 125%     212     1.00     21.2     35.1     1.00     5.1       1.00     5.1     1.00     5.1     DEMAND AT 125%     358.1     AMPS       1.00     0.1     212     1.00     21.2     43.0     KVA     358.1     AMPS       1.00     5.1     1.00     5.1     <td< td=""><td>HU-B       39       40       ECUH-A       20       12         IP-A       41       42       ECUH-A       20       12         IP-B       43       44       ECUH-A       20       12         IP-B       43       44       GPS UNITS       20       10         IP-B       47       48       IT CABINET       20       12         WH-1       51       50       SPARE       20       12         PARE       51       52       SPARE       20       12         SUB TOTALS       SUB TOTALS       SUB TOTALS       20       10         SUB TOTALS       SUB TOTALS       SUB TOTALS       20       10         SUB TOTALS       SUB TOTALS       SUB TOTALS       10       10       10         10.1       0.0       6.0       L1= 33.6       KVA       279.9       AMPS         10.1       0.0       0.1       DEMAND       280.8       A</td></td<></td>	H0-B       39       41         IP-A       41       43         IP-B       45       45         WH-1       49       47         PARE       53       53         SUB TOTALS         Ond. D.F. Dmd. OAD PER PHASE         SUB TOTALS         SUB TOTALS         Ond. 1.00         OAD PER PHASE         OHD. 0.0         OHD. 0.0	HU-B       39       41         41       43         IP-A       43         45       47         47       49         47       49         MH-1       51         PARE       53         SUB TOTALS         SUB TOTALS         Conn.       D.F.         Dmd.       OAD PER PHASE         3.5       1.25         44       1.00         24.4       1.00         24.4       1.00         24.4       1.00         24.4       1.00         24.4       1.00         21.1       1.00         0.0       0.0         0.1       0.0         0.1       0.0         0.0       0.50         0.0       0.0         0.1       0.0         0.0       0.0         0.1       0.0         1.00       5.1         21.2       1.00         21.2       1.00         21.2       43.0         43.0       KVA         43.0       KVA         43.0       KVA	HU-B       39       40         IP-A       41       42         IP-A       41       42         IP-B       45       46         WH-1       49       40         PARE       53       54         SUB TOTALS         OAD PER PHASE         CONI         6.0       1.00       6.0         1.25       4.4       CONI         6.0       1.00       6.0       L1=       33.6       kVA       279.9         24.4       1.00       24.4       L2=       33.7       kVA       280.8         0.0       1.00       0.0       L2=       34.4       kVA       286.5         0.0       0.50       0.0       L2=       34.4       kVA       286.5         0.0       0.0       1.00       0.0       L2=       43.0       kVA       358.1         Allos       kVA	HO-B       39       40       ECUH-A         IP-A       41       42       ECUH-A         IP-A       43       44       ECUH-A         IP-B       45       46       GPS UNITS         WH-1       49       50       SPARE         S1       51       52       SPARE         PARE       53       54       SPARE         SUB TOTALS         SUB TOTALS         ONNECTED         3.5       1.25       4.4       CONNECTED         6.0       1.00       6.0       L1=       33.6       KVA       279.9 AMPS         24.4       1.00       24.4       L2=       33.7       KVA       280.8 AMPS         0.0       1.00       0.0       0.0       100       0.0       100         0.1       1.00       0.1       DEMAND       280.6 AMPS       280.6 AMPS         0.0       0.55       0.0       L1=       33.8       KVA       281.6 AMPS         21.2       1.00       21.2       L1=       42.2       KVA       358.1 AMPS         0.0       0.0       0.0       1.00       0.0       282.0 AMPS	HI-3     39     40     ECOH-A     20       P-A     41     42     ECUH-A     20       IP-B     45     46     GPS UNITS     20       WH-1     49     48     IT CABINET     20       WH-1     51     52     SPARE     20       PARE     51     52     SPARE     20       VUB     51     52     SPARE     20       VUB     51     54     SPARE     20       SUB     TOTALS     SUB     54     SPARE     20       SUB     1.00     6.0     L1=     33.6     KVA     279.9     AMPS       24.4     1.00     24.4     1.00     24.4     L2=     33.7     KVA     280.8     AMPS       0.0     1.00     0.0     1     DEMAND     280.8     AMPS       0.0     0.0     1.00     0.1     DEMAND AT 125%     212     1.00     21.2     35.1     1.00     5.1       1.00     5.1     1.00     5.1     DEMAND AT 125%     358.1     AMPS       1.00     0.1     212     1.00     21.2     43.0     KVA     358.1     AMPS       1.00     5.1     1.00     5.1 <td< td=""><td>HU-B       39       40       ECUH-A       20       12         IP-A       41       42       ECUH-A       20       12         IP-B       43       44       ECUH-A       20       12         IP-B       43       44       GPS UNITS       20       10         IP-B       47       48       IT CABINET       20       12         WH-1       51       50       SPARE       20       12         PARE       51       52       SPARE       20       12         SUB TOTALS       SUB TOTALS       SUB TOTALS       20       10         SUB TOTALS       SUB TOTALS       SUB TOTALS       20       10         SUB TOTALS       SUB TOTALS       SUB TOTALS       10       10       10         10.1       0.0       6.0       L1= 33.6       KVA       279.9       AMPS         10.1       0.0       0.1       DEMAND       280.8       A</td></td<>	HU-B       39       40       ECUH-A       20       12         IP-A       41       42       ECUH-A       20       12         IP-B       43       44       ECUH-A       20       12         IP-B       43       44       GPS UNITS       20       10         IP-B       47       48       IT CABINET       20       12         WH-1       51       50       SPARE       20       12         PARE       51       52       SPARE       20       12         SUB TOTALS       SUB TOTALS       SUB TOTALS       20       10         SUB TOTALS       SUB TOTALS       SUB TOTALS       20       10         SUB TOTALS       SUB TOTALS       SUB TOTALS       10       10       10         10.1       0.0       6.0       L1= 33.6       KVA       279.9       AMPS         10.1       0.0       0.1       DEMAND       280.8       A









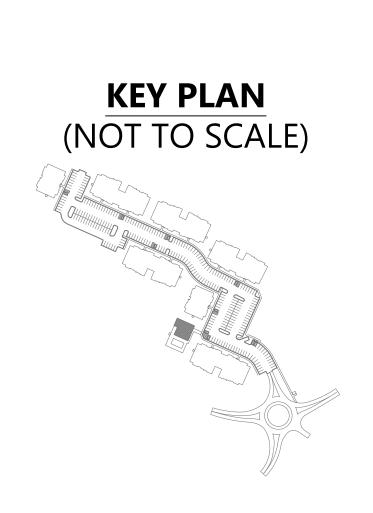


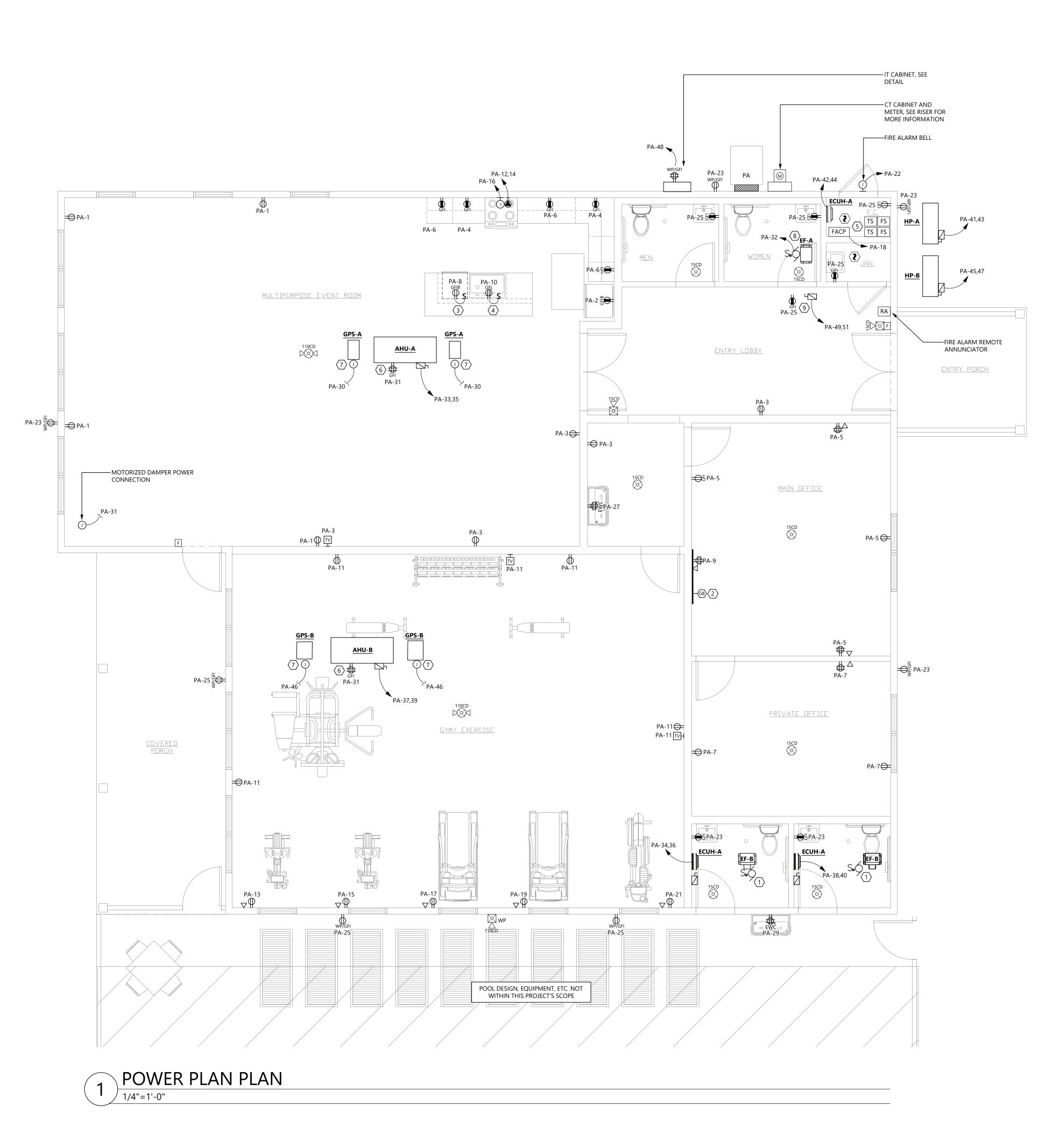
# 1 ELECTRICAL SITE PLAN - AMENITY BUILDING

SITE PLAN NOTES:

- UTILITY TRANSFORMER. PART OF BUILDING 1 PERMIT SUBMISSION AND SCOPE OF WORK.
   PROVIDE (2)-4" CONDUIT FROM MAIN TELECOM/INTERNET BOX TO PROPERTY LINE FOR TELEPHONE AND INTERNET SERVICE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION.E.C. TO PROVIDE UP TO 150' OF ADDITIONAL (2)-4" CONDUIT AND COMPLETE INSTALLATION BASED ON UTILITY COORDINATION.
- ALL LOW VOLTAGE CONDUIT RUNS SHALL HAVE HAND HOLES/PULL BOXES SUPPLIED AT 150' INTERVALS UNLESS OTHERWISE INDICATED BY LOCAL UTILITY. MINIMUM SIZE SHALL BE 36" X 36".





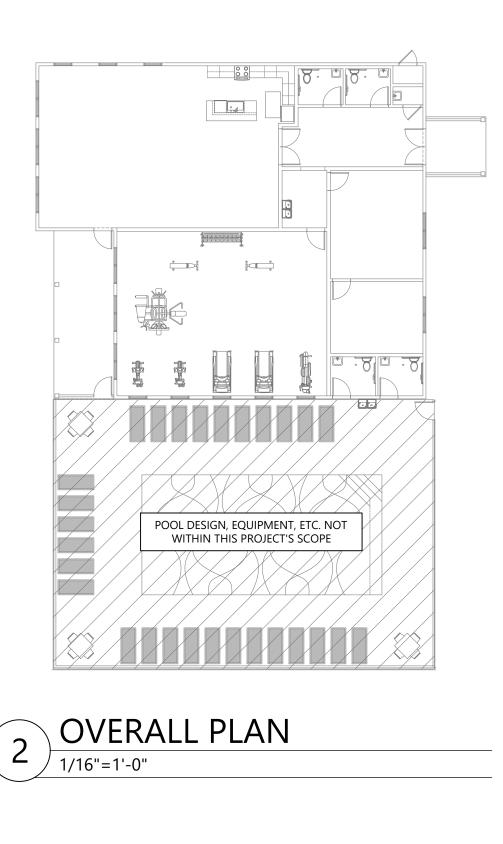


POWER PLAN GENERAL NOTES:

- A. CONTRACTOR SHALL PROVIDE DETAILED AS-BUILT DRAWINGS. PROVIDE COPY OF AS-BUILT DRAWINGS TO OWNER AND ENGINEER AT PROJECT COMPLETION.
- B. LABEL ALL RECEPTACLES WITH CIRCUIT AND PANEL INFORMATION.
- C. ALL CONDUIT SHALL BE CONCEALED IN WALL AND CEILINGS IN FINISHED SPACES.
- D. COORDINATE ALL FINAL RECEPTACLE, TV BOX, ETC. LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E. ALL MECHANICAL AND PLUMBING EQUIPMENT POWER LOCATIONS SHALL BE COORDINATED WITH M.C. AND P.C. PRIOR TO ROUGH-IN.

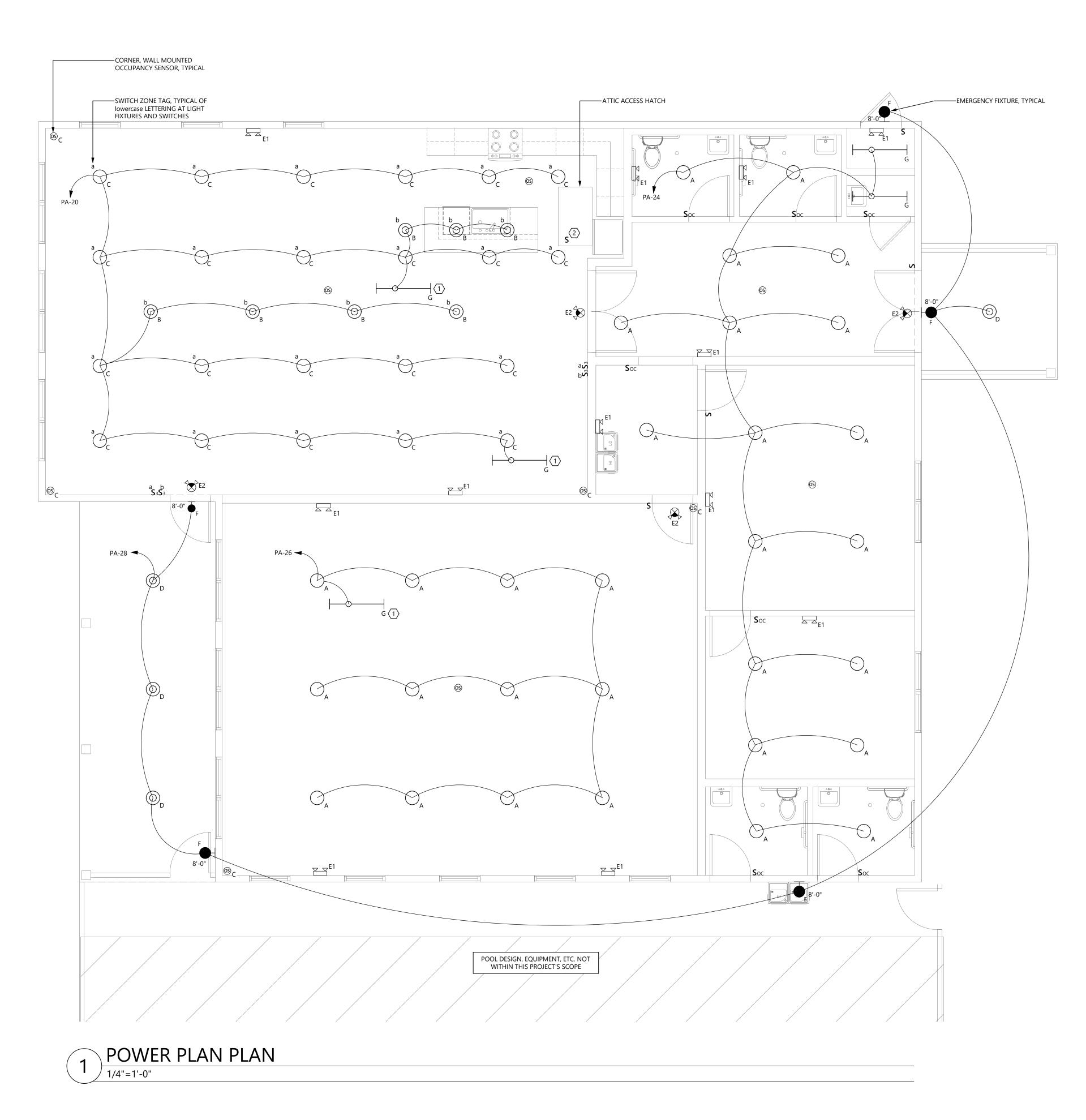
## POWER PLAN KEYED NOTES:

- 1. CONNECT TO LOCAL LIGHTING CIRCUIT. FAN TO BE CONTROLLED WITH ROOM LIGHTING CONTROLS.
- 2. DATA RACK PLYWOOD BACKBOARD. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN. PROVIDE (2)-1"C FROM BACKBOARD LOCATION TO PROPERTY EDGE FOR INTERNET PROVIDER CABLE ROUTING, SEE OVERALL ELECTRICAL PLAN (SAME SHEET) FOR APPROXIMATE LOCATIONS.
- 3. DISHWASHER DISCONNECT SWITCH. INSTALL IN CABINET BELOW SINK.
- 4. DISPOSAL POWER AND SWITCH. MOUNT SWITCH ABOVE COUNTER.
- 5. ALL TAMPER/FLOW SWITCH LOCATIONS, QUANTITIES, ETC. SHALL BE COORDINATED WITH FIRE PROTECTION CONTRACTOR PRIOR TO ORDERING OF EQUIPMENT.
- 6. MOUNT MAINTENANCE AND PUMP RECEPTACLE AT AIR HANDLER UNIT.
- 7. POWER FOR GPS UNIT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH M.C. PRIOR TO ROUGH-IN.
- 8. FAN TO OPERATE CONTINUOUSLY, CONNECT TO CIRCUIT SHOWN.
- 9. WATER HEATER AND LEAK DETECTOR POWER. SHOWN HERE FOR CLARITY. COORDINATE FINAL LOCATION WITH P.C. PRIOR TO ROUGH-IN. MOUNT LEAK DETECTOR RECEPTACLE ADJACENT TO WATER HEATER.





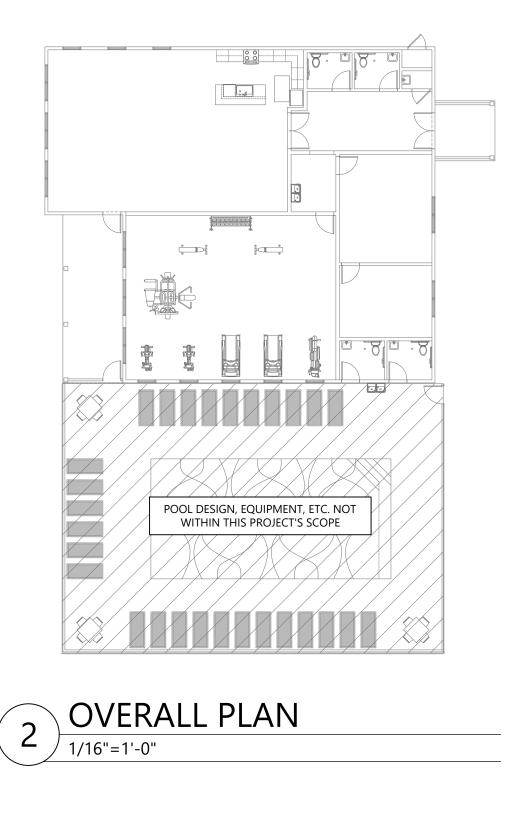




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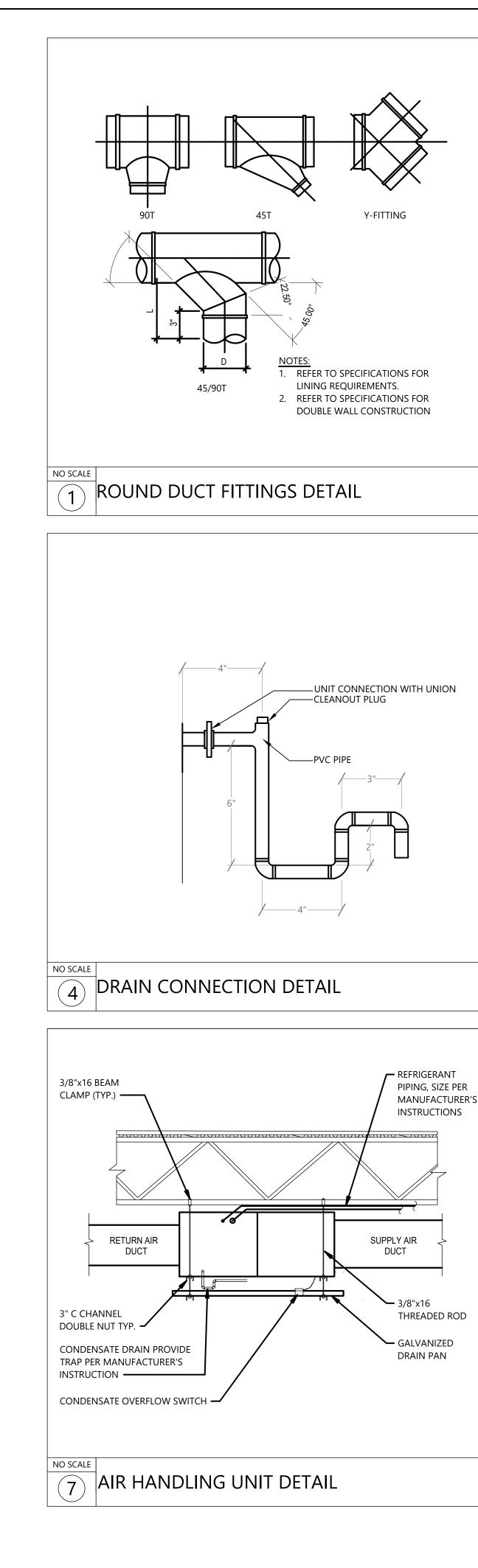
LIGHTING	GENERAL NOTES:

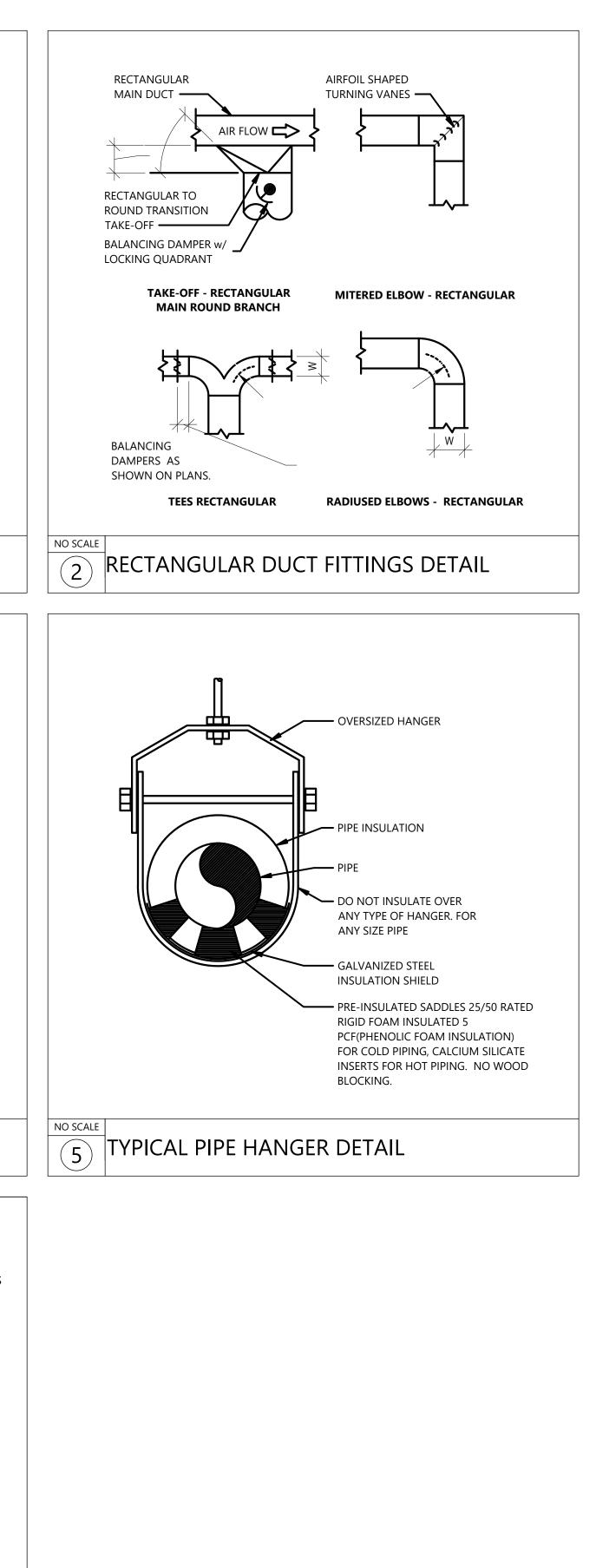
- A. CONTRACTOR SHALL PROVIDE DETAILED AS-BUILT DRAWINGS. PROVIDE COPY OF AS-BUILT DRAWINGS TO OWNER AND ENGINEER AT PROJECT COMPLETION.
- B. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATION WITH MECHANICAL CONTRACTOR AND NEW DUCTWORK PRIOR TO ROUGH-IN. RELOCATION OF DUCTWORK FOR CONFLICT WITH NEW LIGHTING WILL BE AT EXPENSE OF CONTRACTOR.
- C. PROVIDE 90 MINUTE BATTERY BACKUP FOR ALL EMERGENCY FIXTURES SHOWN ON THIS PLAN. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING.
- D. SITE AND LANDSCAPE LIGHTING BY OTHERS.
- E. EXTERIOR LIGHT FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL MOUNTED ON NORTH FACING ROOF.
- F. ALL LIGHTING FIXTURE LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- (##) LIGHTING KEYED NOTES: 1. STRIP LIGHT SHALL BE MOUNTED IN ATTIC SPACE FOR. COORDINATE LOCATION(S) WITH MECHANICAL EQUIPMENT, DUCT, PIPING, ETC. PRIOR TO ROUGH-IN.
- SWITCH SHALL BE LOCATED AT ATTIC ACCESS LOCATION. TO CONTROL 'G' FIXTURES IN ATTIC SPACE.

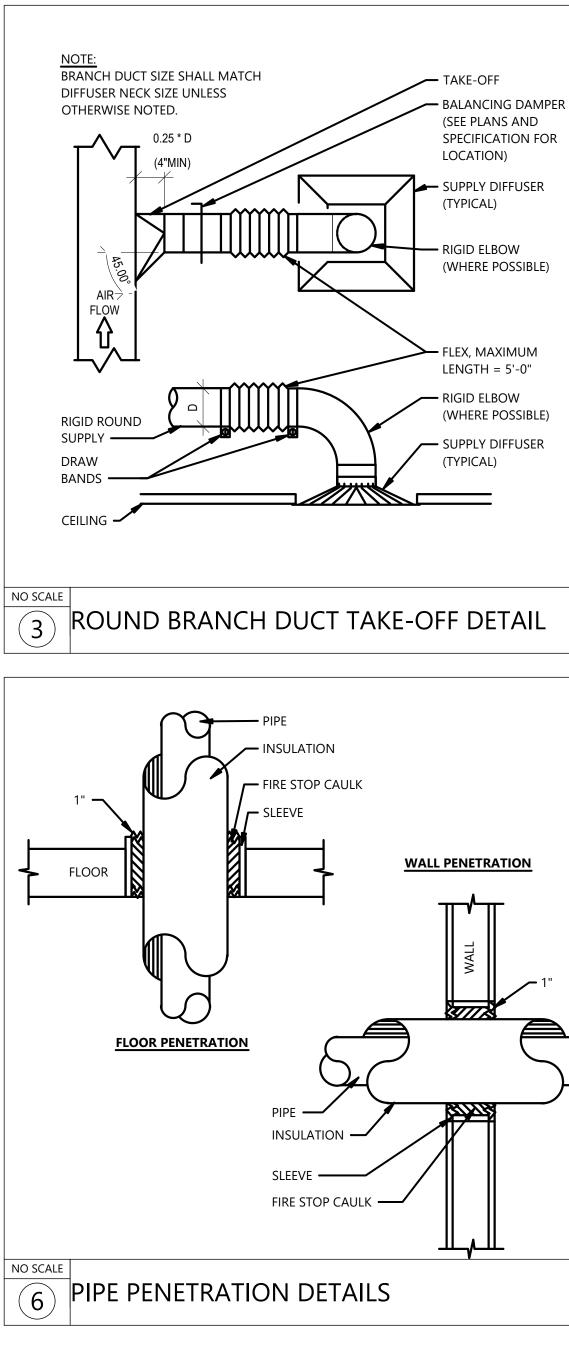




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- PRELIMINARY - NOT FOR CONSTRUCTION	
SIGNATURE:	
CLIENT: The Orchards at Naples Road, 341 N Main Street Hendersonville, NC 28792 Luis Graef: President Opcondent PROJECT:	S
The Orchards at Naples R Apartment Complex Hendersonville, North Carolina	
# REVISIONS DATE	
ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: MFL CHECKED BY: JK	
DWG DECRIPTION : ELECTRICAL LIGHTING PLA AMENITY BUILDING	N -

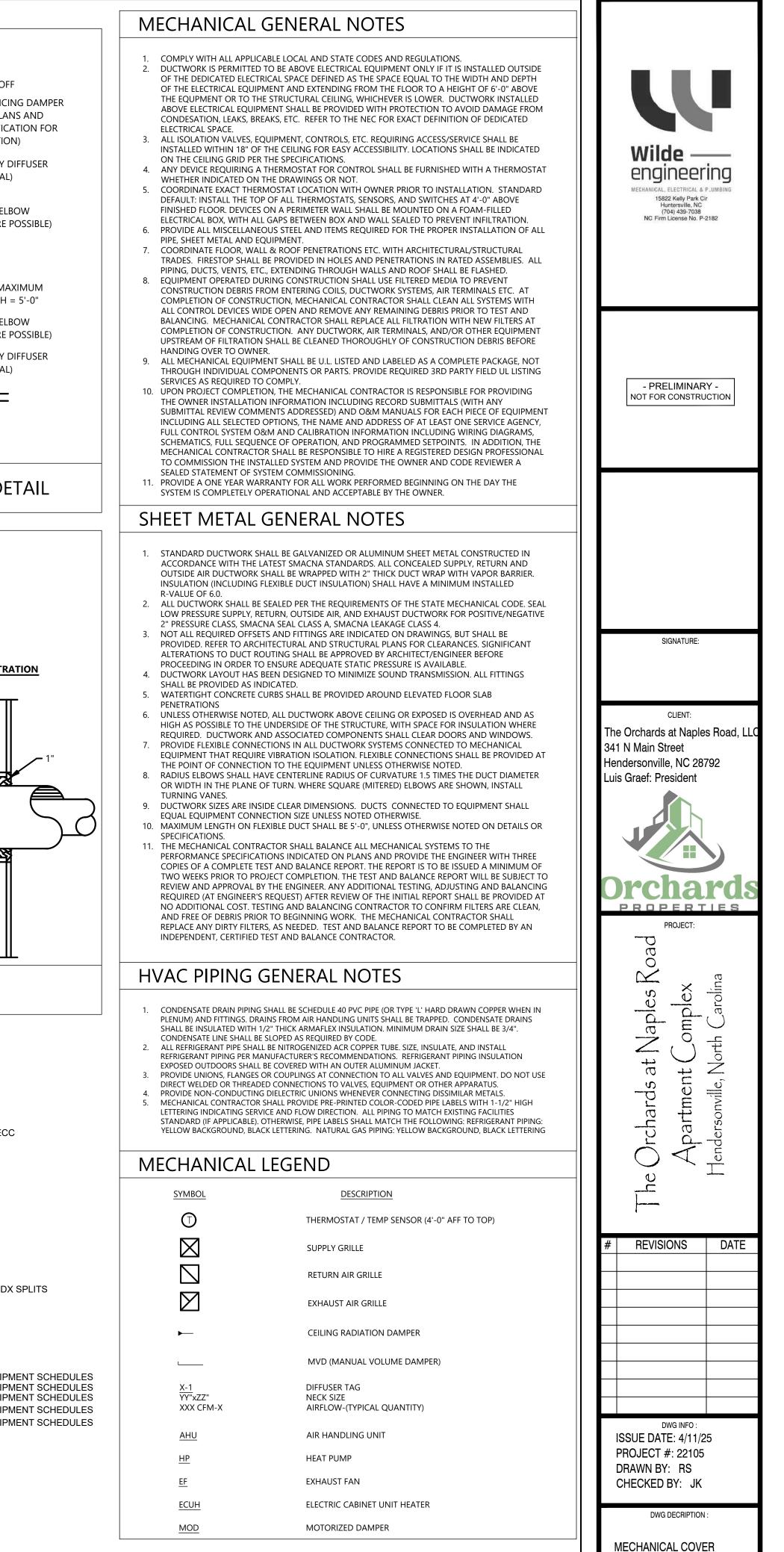






### **Building Code - 2018 North Carolina NCBC**

Prescriptive   Energy Cost Budget	 2018 NCECC
Thermal Zone	3A
winter dry bulb	3A 18°F
summer dry bulb	94°F
-	54 1
Interior design conditions	
winter dry bulb	70°F
summer dry bulb	75°F
relative humidity	50%RH
Building heating load	93.6 MBH
Building cooling load	62.1 MBH
Mechanical Space Conditioning System	
Unitary description of unit	2x 4-TON DX S
heating efficiency (HSPF2)	8.2
cooling efficiency (SEER2)	17
heat output of unit	48 MBH
cooling output of unit	48 MBH
Equipment schedules with motors (mechanical systems)	N/A
motor horsepower	SEE EQUIPME
number of phases	SEE EQUIPME
minimum efficiency	SEE EQUIPME
motor type	SEE EQUIPME
# of poles	SEE EQUIPME



SHEET

WILDE #: 24-125

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### IT COLIT CV/CTENA CCLI

INDOOR UN	IT SPLIT SY	STEM SCH	EDULE											
		INDOOR UNIT DATA									ELECTRICAL DATA			
MARK	NOTES					<u>SUPF</u>	PLY AIR FAN			ELECTRIC HEATER		МСА	МОСР	WEIGHT
	NOTES	MFR	MODEL NO.	NOM. CAP.	SA	OA	ESP	FLA	НР	(KW)	VOLTAGE/PH	MICA	IVIOCP	
				(MBH)	(CFM)	(CFM)	(IN. W.C.)					(A)	(A)	(LBS)
<u>AHU-A</u>	1-10	GOODMAN	AHVE48	48	1400	200	0.2	5.2	3/4	5	230/1	31.5	35	158
<u>AHU-B</u>	1-10	GOODMAN	AHVE48	48	1400	200	0.2	5.2	3/4	5	230/1	31.5	35	158

<u>NOTES:</u>

2

FACTORY DISCONNECT. 1

PROVIDE 7-DAY PROGRAMMABLE CONTROLS W/ STANDARD WALL THERMOSTAT.

MERV-8 PRIMARY FILTERS - THROW-AWAY TYPE.

**REFRIGERANT LINESET** - SIZE, INSULATE, & ROUTE PIPING PER MANUFACTURER'S INSTRUCTIONS. PENETRATE THRU WALL SEALED WEATHERTIGHT. **CONDENSATE REMOVAL PUMP** - EQUIVALENT TO LITTLE GIANT VCMA-15.

SECONDARY CONDENSATE OVERFLOW DRAIN PAN WITH UL 508 WATER LEVEL DETECTION DEVICE (EC TO PROVIDE SEPARATE CIRCUIT) TO SHUTOFF EQUIPMENT UPON ACTIVATION. VARIABLE SPEED ECM BLOWER MOTOR.

FULLY COMMUNICATING.

ELECTRONIC EXPANSION VALVE.

PROVIDE HEATER KIT MODEL HKTS05X1 WITH SINGLE POINT WIRING KIT. 10

### OUTDOOD UNIT COUT SYSTEMA COULDULE

II SPLII S	SYSTEM SC	HEDULE										
		OUTDOOR UNIT DATA										
NOTES	MFR		DEEDIC	<b>REFRIG. COOLING PERFORMA</b>	NCE	REFRIG. H	EATING PERFORMANCE	ELECTRICAL DATA			WEIGHT	
NOTES		MODEL NO.	D. TYPE	NOM. CAP.	SEED2	NOM. CAP			МСА	МОСР	1	
				(MBH)	JEERZ	(MBH)	HJFF2	VOLIAGE/PH			(LBS)	
1-3	GOODMAN	GZV6SA48	R32	48	17	48	8.2	230/1	31.8	35	185	
1-3	GOODMAN	GZV6SA48	R32	48	17	48	8.2	230/1	31.8	35	185	
	<b>NOTES</b> 1-3	NOTES MFR 1-3 GOODMAN	MFRMODEL NO.1-3GOODMANGZV6SA48	NOTESMFRMODEL NO.REFRIG. TYPE1-3GOODMANGZV6SA48R32	NOTES           MFR         MODEL NO.         REFRIG. TYPE         REFRIG. NOM. CAP.           1-3         GOODMAN         GZV6SA48         R32         48	NOTES         MFR         MODEL NO.         REFRIG. TYPE         REFRIG. COOLING PERFORMANCE         SEER2           1-3         GOODMAN         GZV6SA48         R32         48         17	NOTESMFRMODEL NO.REFRIG. TYPEREFRIG. COOLING PERFORMANCENOM. CAP.1-3GOODMANGZV6SA48R32481748	OUTDOOR UNIT DATANOTESMARERREFRIG. MODEL NO.REFRIG. TYPEREFRIG. NOM. CAP. (MBH)REFRIG. TYPEREFRIG. NOM. CAP.NOM. CAPNOM. CAP1-3GOODMANGZV6SA48R324817488.2	NOTES         OUTDOOR UNIT DATA           NOTES         MAR         ABERRIG. TYPE         REFRIG. COOLING PERFORMANCE NOM. CAP. (MBH)         REFRIG. HEATING PERFORMANCE NOM. CAP         NOM. CAP	NOTES         OUTDOR UNIT DATA           NOTES         MAR         REFRIG. TYPE         REFRIG. COOLING PERFORMANCE         REFRIG. HEATING PERFORMANCE         ELECTRICAL DATA           1-3         GOODMAN         GZV6SA48         R32         48         17         48         8.2         230/1         31.8	OUTDOR UNIT DATA           NOTES         APPR         APRRIS, DODEL NO.         REFRIG, COOLING PERFORMANCE         REFRIG, COOLING PERFORMANCE         ELECTRICAL DATA           NMR         MODEL NO.         REFRIG, COOLING PERFORMANCE         NOM. CAP.         NOM. CAP.	

<u>NOTES:</u>

2

PROVIDE 4" CONCRETE HOUSEKEEPING PAD. EC TO PROVIDE ELECTRICAL DISCONNECT.

VARIABLE SPEED SWING COMPRESSOR.

FAN SCHEDULE															
							FAN DATA ELECTRICAL DATA							MEICHT	
MARK NOTES	NOTES	MANUFACTURER	MODEL NO.	SERVICE	LOCATION	ТҮРЕ	AIRFLOW	RPM	ESP	MOTOR DATA	VOLTS	PHASE	МСА	MOCP WEIGHT	
						ITPE	(CFM)	KPIVI	(IN. W.C.)	(HP)	VOLIS	PHASE	(A)	(A)	(LBS)
<u>EF-A</u>	1-3	GREENHECK	CSP-A200	EXHAUST	RECREATION/ADMIN. BLDG	INLINE	200	825	0.15	135W	115	1	-	-	23
<u>EF-B</u>	1, 2, 4	BROAN	XB80	EXHAUST	RECREATION/ADMIN. BLDG	CEILING MOUNT	80	-	0.1	5.8W	115	1	-	-	12.5

NOTES:

1 FACTORY MOUNTED DISCONNECT.

2 GRAVITY OPERATED DAMPER.

3 FAN SHALL RUN CONTINUOUSLY WHILE BUILDING IS OCCUPIED.

4 EC TO PROVIDE WALL SWITCH.

## ELECTRIC UNIT HEATER SCHEDULE

					<u>E</u>	LECTRICAL	DATA	
MARK	NOTES	MANUFACTURER	MODEL NO.	MOUNTING	CAPACITY (KW)	VOLTS	PHASE	AMPS
ECUH-A	1-5	QMARK	CWH1202DSF	WALL	2	240	1	8.3

### <u>NOTES:</u>

1 FACTORY MOUNTED DISCONNECT AND THERMOSTAT.

PROVIDE SUMMER TIME SWITCH. 2

- 3 PROVIDE SEMI-RECESSED MOUNTING FRAME.
- 4 MOUNT HEATER @ 24" A.F.F.

5 U.L. LISTED.

### AID TEDMINIAL SCHEDULE (CDULES DECISTEDS AND DIEFUSEDS)

AIR IE	AIR TERMINAL SCHEDULE (GRILLES, REGISTERS AND DIFFUSERS)								
MARK	MARK NOTES MANUFACTURER MOD		MODEL NO.	AIR TERMINAL TYPE	NECK SIZE	FACE SIZE	MATERIAL	MAX APD	MAX NC
					Ø (IN.)	(CFM)		(IN. W.C.)	
<u>SD-1A</u>	1-3		SPD	SQUARE PLAQUE DIFFUSER	SEE PLANS	24"x24"	STEEL		
<u>SD-1B</u>	1-3	PRICE	SPD	SQUARE PLAQUE DIFFUSER	SEE PLANS	12"x12"	STEEL	0.10	25
<u>RG-1</u>	1-3	FNICE	PDDR	PERFORATED RETURN GRILLE	SEE PLANS	24"x24"	STEEL	0.10	25
<u>EG-1</u>	1-3		80	EGGCRATE RETURN/EXHAUST GRILLE	SEE PLANS	12"x12"	STEEL		

<u>NOTES:</u>

1 BALANCING DAMPER PLACMENT ON PLANS IS COORDINATED WITH CEILING TYPES FOR ACCESSIBILITY AS PERMITTED BY THE DUCT LAYOUT.

WHERE DAMPER IS INACCESSIBLE, CONTRACTOR IS TO INSTALL A REMOTE CABLE-OPERATED ROD/DAMPER SYSTEM (EQUAL TO DURO ZONE: COD) TO AVOID ACCESS PANEL COLOR: SELECTION BY ARCHITECT FROM MANUFACTURER STANDARD OFFERING (DEFAULT: WHITE) 2

3 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN TO COORDINATE MOUNTING TYPES

LOUVE	OUVER SCHEDULE														
MARK	I	NOTE L	.EGEND	)	MANUFACTURER	MODEL NO.	AIRFLOW DIRECTION	SERVICE	LOUVER SIZE		AIRFLOW FREE AREA		MAX VELOCITY MAX APD		MATERIAL
	1	2	3	4	•		DIRECTION		H (IN.)	W (IN.)	CFM	(SQ. FT.)	(FPM)	(IN. W.C.)	
<u>L-1</u>	Х	Х	Х	Х	RUSKIN	ELF6375DX	INTAKE	AMENITIES OA	22	18	760	1.16	657	0.07	ALUMINUM

<u>NOTES:</u>

1 COORDINATE FINAL FINISH/COLOR WITH ARCHITECT.

2 PROVIDE BIRD/INSECT SCREEN.

PROVIDE MOTORIZED DAMPER. DAMPER SHALL OPEN WHEN AHU-A OR AHU-B IS ENERGIZED. 3

4 REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.

WildeWildeBundeStateKennel Leetrical & PlumersBiszez Kelly Park Cir Huntersville, NC (704) 439-7038 NC Firm License No. P-2182
- PRELIMINARY - NOT FOR CONSTRUCTION
SIGNATURE:
CLIENT: The Orchards at Naples Road, LLG 341 N Main Street Hendersonville, NC 28792 Luis Graef: President PROJECT: PROJE
# REVISIONS DATE
DWG INFO : ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: RS CHECKED BY: JK
DWG DECRIPTION : MECHANICAL SCHEDULES
SHEET #: M-01 WILDE #: 24-125

### RECREATION/ADMIN. BUILDING REQUIRED OUTDOOR VENTILATION PER TABLE 403.3.1.1 (ASHRAE 62.1 VRP)

ZONE/ROOM	SERVED BY	OCCUPANCY	OA REQ. PER PERSON	ZONE POPULATION	OUTDOOR AIRFLOW RATE	ZONE FLOOR AREA	BREATHING ZONE OA	ZONE AIR DISTRIBUTION EFFECTIVENESS			
	SERVED BI	CLASSIFICATION	Rp	Pz	Ra	Az	Vbz	Ez			
MULTIPURPOSE EVENT ROOM	AHU-A	MULTIPURPOSE ASSEMBLY	5	44	0.06	1053	284	0.80			
GYM/EXERCISE	AHU-B	HEALTH CLUB/WEIGHT ROOM	20	10	0.06	959	258	0.80			
ENTRY LOBBY	AHU-B	OFFICE	5	0	0.06	224	14	0.80			
MAIN OFFICE	AHU-B	OFFICE	5	2	0.06	279	27	0.80			
PRIVATE OFFICE	AHU-B	OFFICE	5	1	0.06	185	17	0.80			
TOTAL				57		2700					

### Air Ionization Device Schedule

Мо									Mounting	
Zone Tag	Flow	S/A Flow	O/A Flow	GPS Model	GPS Quantity	Pressure Drop	Voltage/Ph	Watts	Location	Notes
GPS-A	CV	1400	355	SIAQ-DIST1S	1	0.05" W.C.	120/1	200	Duct	1 to 9
GPS-B	CV	1400	405	SIAQ-DIST1S	1	0.05" W.C.	120/1	200	Duct	1 to 9

1. Basis of Design: GPS Air: Approved equals by Airgenics and Bioxgen subject to specification compliance

2. Mount bi-polar ion generator where indicated on schedule

3. If contractor substitutes basis of design with another manufacturer, contractor shall coordinate all electrical and mechanical changes

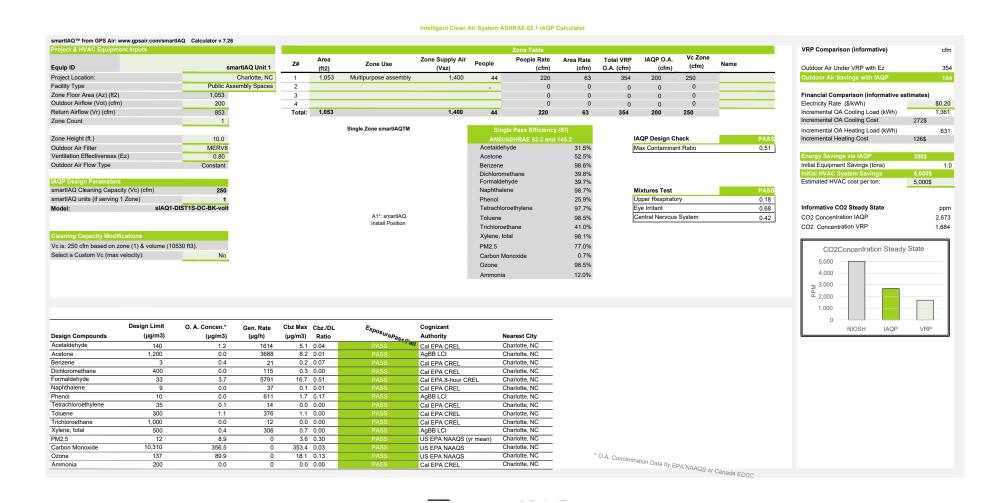
4. Bi-polar ionization systems requiring replacement glass tubes are not acceptable 5. All manufacturers must pass UL-867-2007 ozone chamber testing by either UL or ETL

6. Provide with integral BAS alarm contacts

7. Provide with self-cleaning feature. Systems without self-cleaning shall not be acceptable.

8. Provide with weatherproof enclosure.

9. Provide (1) 2" MERV14 particulate filter and (1) 2" Molecular filter.

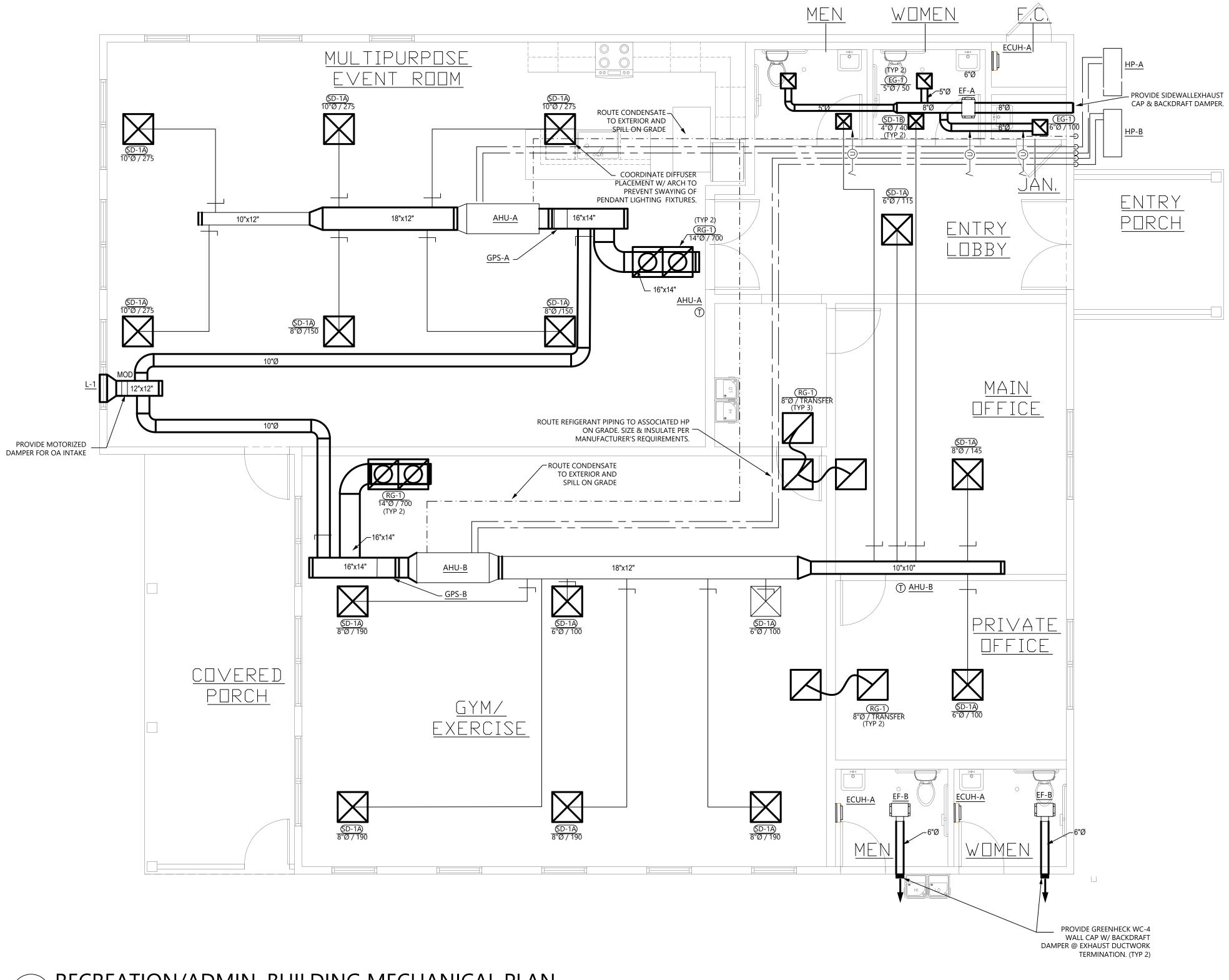


### smartIAQ™ from GPS Air: www.gpsair.com/smartIAQ Calculator v 7.26 VRP Comparison (informative) cfm Zone Supply Air People Rate Area Rate Total VRP IAQP O.A. Vc Zone (Vsz) (cfm) (cfm) (cfm) (cfm) Zone Use Equip ID Z# Outdoor Air Under VRP with Ez smartIAQ Unit Charlotte, NC Sports and Entertainment 1,647 Project Location: Facility Type 688 Office space Financial Comparison (informative estimates) Electricity Rate (\$kVkh) \$0.20 Incremental OA Cooling Load (kVkh) 2,407 Incremental OA Cooling Cost 481\$ Total: 1,647 1,400 13 215 99 392 120 500 Single Zone smartIAQTM Incremental OA Heating Load (kWh) 1,116 Incremental Heating Cost 223\$ IAQP Design Check PASS Max Contaminant Ratio 0.66 Zone Height (ft.) ANSI/ASHRA Acetaldenyde Acetone Benzene Dichloromethane Formaldehyde Naphthalene Phenol Tatrashkoroathukano Outdoor Air Filter 31.5% 52.5% 98.6% 39.8% 98.7% 25.9% 97.7% 98.5% 41.0% 98.1% 77.0% 98.5% 12.0% Savings via IAQP 705\$ quipment Savings (tons) Outdoor Air Flow Type stimated HVAC cost per ton: Mixtures Test Upper Respiratory Eye Irritant Central Nervous System smartIAQ Cleaning Capacity (Vc) (cfm) 500 Model: sIAQ1-DIST2L-DC-BK-volt-CUST500 Informative CO2 Steady State Tetrachloroethylene Totalanioocunjinio Totalanio Trichloroethane Xylene, total PM2.5 Carbon Monoxide Ozone Ammonia A1\*: smartIAQ Install Position CO2 Concentration IAQP CO2 Concentration VRP /c is: 500 cfm based on zone (2) & volume (16470 ft3). CO2Concentration Steady State lect a Custom Vc (max velocity): Selectable Vc options (cfm): 3,000 2,000 1,000 0 NIOSH IAQP VRP Design Limit (µg/m3) Gen. Rate Cbz Max Cbz./DL O. A. Concen.\* Cognizant Inizant thority Nearest City EPA CREL Charlotte, NC EPA NAAQS (yr mean) Charlotte, NC EPA NAAQS Charlotte, NC Design Compounds Acetaldehyde Acetone Benzene Dichloromethane Formaldehyde Naphthalene Pbenol (µg/m3) (µg/h) (µg/m3) Ratio Phenol Tetrachloroethylene Foluene Frichloroethan Kylene, total

Intelligent Clean Air System ASHRAE 62.1 IAQP Calculator

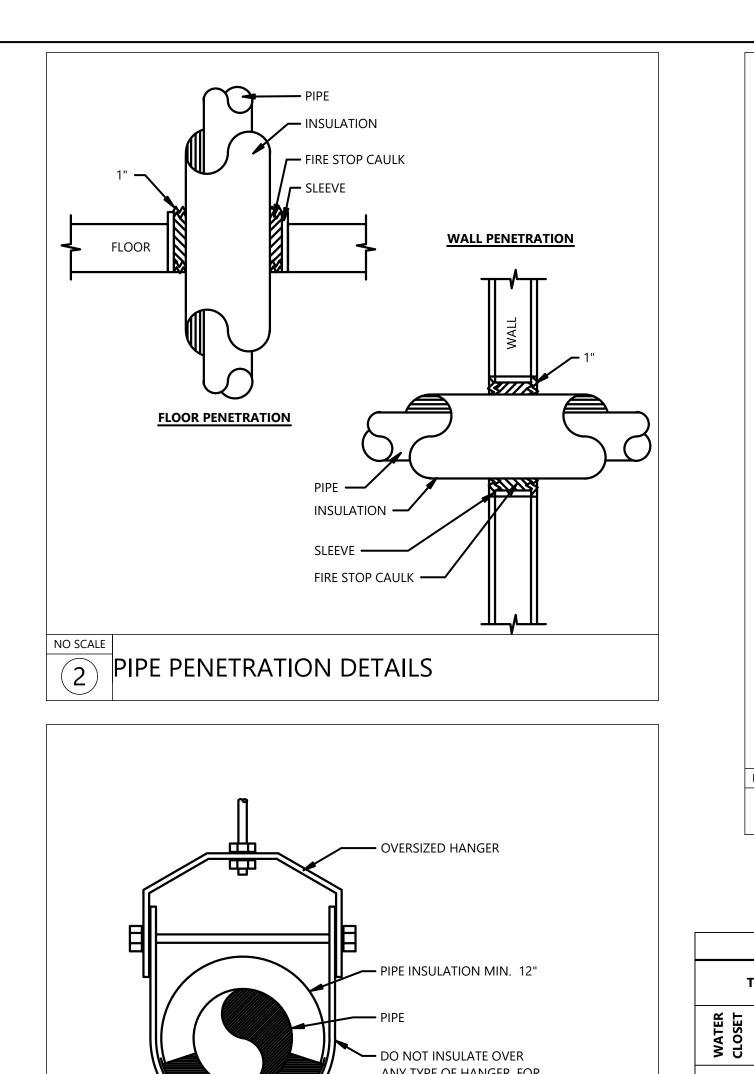
ZONE	OA
REQ	PROVIDED
355	355
323	325
18	20
34	35
21	25
750	760

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SHEET #:









ANY TYPE OF HANGER. FOR

INSULATION SHIELD MIN. 9"

RIGID FOAM INSULATED 5

PRE-INSULATED SADDLES 25/50 RATED

PCF(PHENOLIC FOAM INSULATION) FOR COLD PIPING, CALCIUM SILICATE INSERTS FOR HOT PIPING. NO WOOD

ANY SIZE PIPE

BLOCKING.

3 TYPICAL PIPE HANGER DETAIL

NO SCALE

- GALVANIZED STEEL

		3/4"CW	I						
		3/4"HW	/ (110° F)	<b>t</b> a					
		TEMP/PRESS RELIEF VALVE							
ELECTRIC WATER HEATER									
	I								
NO SCALE NO SCALE TYPICAL WATER HEATER D									
-			TER HEAT	ER DETA					
			TER HEAT	WATER					
CLOSET	<u>1</u> T	YPICAL WA							
CLOSET	1 T	YPICAL WA	MODEL KINGSTON/K-	WATER CONSUMPTION 1.28 GPF EPA					
	1     T       rag     WC-1 BOWL       LAV-1	YPICAL WA	MODEL KINGSTON/K- 25077-0 KINGSTON/K-	WATER CONSUMPTION 1.28 GPF EPA					
LAVATORY CLOSET	1       T         FAG       WC-1 BOWL         LAV-1       BOWL	YPICAL WA	MODEL KINGSTON/K- 25077-0 KINGSTON/K- 2005 CORALAIS/L-	WATER CONSUMPTION 1.28 GPF EPA "WATERSENSE" - .5 GPM EPA "WATERSENSE" -					
CLOSET	1       T         Image: TAG       WC-1         BOWL       BOWL         LAV-1       BOWL         LAV-1       FAUCET         KS-1	YPICAL WA MANUFACTURER KOHLER KOHLER KOHLER AMERICAN	MODEL KINGSTON/K- 25077-0 KINGSTON/K- 2005 CORALAIS/L- 15240-4NDRA DECORUM/9024.	WATER CONSUMPTION 1.28 GPF EPA "WATERSENSE" - .5 GPM EPA					

	LAVATORY	<b>LAV-1</b> BOWL	KOHLER	KINGSTON/K- 2005	
	LAVA	<b>LAV-1</b> FAUCET	KOHLER	CORALAIS/L- 15240-4NDRA	
	KITCHEN SINK	<u><b>KS-1</b></u> BOWL	AMERICAN STANDARD	DECORUM/9024. 004EC	
	КІТСН	<u>KS-1</u> FAUCET	-	-	
_	HOSE BIBB	<u>HB-1</u>	WOODFORD	MODEL 65EP	
	WATER OUTDOOR COOLER SHOWER	<u>OS-1</u>	PRIER	C-108SH1	
	WATER COOLER	<u>EWC-1</u>	ELKAY	LZSTL8LC	
	WATER COOLER	<u>EWC-2</u>	ELKAY	EDFP217FPK	
	FLOOR DRAIN	<u>FD-1</u>	ZURN	Z415B	
	FLOOR CLEANO UT	<u>FCO</u>	ZURN	Z1400	
	FLOOR DRAIN	<u>FD-1</u>	ZURN	Z415B	
	IY SINK	<u>US-1</u> BOWL	MUSTEE	18W	

<u>US-1</u>

FAUCET

5

# **ELECTRIC TANK WATER HEATER SCHEDULE - AMENITIES BUILDING**

93.6

POLISHED

CHROME

YES

DECK

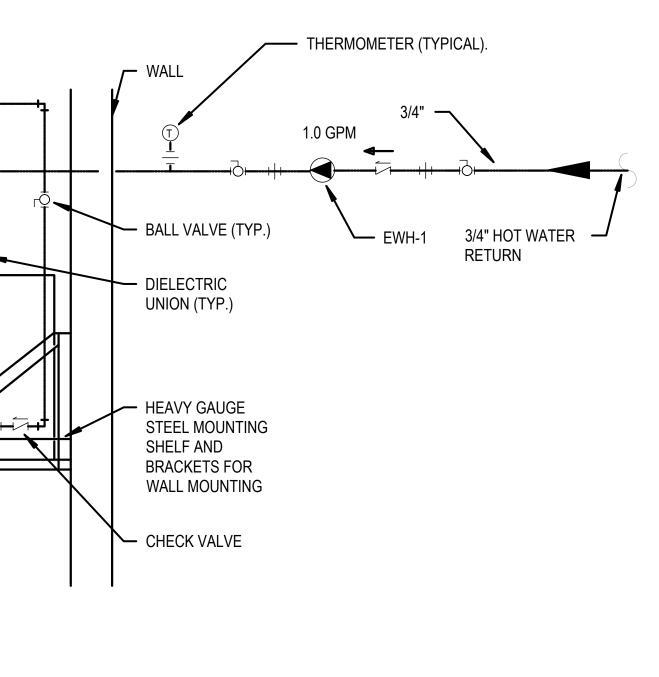
4" CENTERS

Service Location Tag EWH JANITOR'S CLOSET ON WALL ABOVE UTILITY SINI

MUSTEE

1/2" 1/2"

-



# DETAIL W/ RECIRC PUMP

# PLUMBING LEGEND

NEW PIPING	ABBR.	DESCRIPTION
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
	HWR	HOT WATER RETURN PIPING
	W	SANITARY WASTE PIPING
	V	SANITARY VENT PIPING
D	D	DRAIN
	-	ELBOW DOWN
	-	ELBOW UP
	-	PIPE CONTINUES
	-	BALL VALVE
	CV	CHECK VALVE
©	FCO	FLOOR CLEAN OUT
С-Iı	WCO	WALL CLEAN OUT
@	YCO	YARD CLEAN OUT
<u>_</u>	НВ	HOSE BIBB/WALL HYDRANT
<u> </u>	SA	SHOCK ARRESTOR - SUFFIX INDICATES PDI SIZE
	-	THERMOMETER
	-	PRESSURE GAUGE
		ADDITIONAL ABBREVIATIONS

ABV	ABOVE	кw	KILOWATT
AFF	ABOVE FINISHED FLOOR	LAV	LAVATORY
AFG	ABOVE FINISHED GRADE	MBH	1,000 BTUH
BAS	BUILDING AUTOMATION SYSTEM	MFG	MANUFACTU
BEL	BELOW	MH	MOUNTING H
BFF	BELOW FINISHED FLOOR	PH	PHASE
BTUH	BRITISH THERMAL UNIT / HOUR	PSI	POUNDS PER
CFH	CUBIC FEET PER HOUR	SF	SQUARE FEET
CLG	CEILING	SFU	SUPPLY FIXTU
CONT	CONTINUATION	T&P	TEMPERATUR
DFU	DRAINAGE FIXTURE UNIT (WASTE)	TYP	TYPICAL
DN	DOWN	UR	URINAL
(E)	EXISTING	VB	VACUUM BRE
EX	EXISTING	VLV	VALVE
FFE	FINISHED FLOOR ELEVATION	VTR	VENT THRU R
FIN	FINISH	WC	WATER COLU
FL	FLOOR	EC	ELECTRICAL C
FR	FROM	GC	GENERAL CON
FU	FIXTURE UNITS	MC	MECHANICAL
GPC	GALLONS PER CYCLE (METERING)	PC	PLUMBING CO
GPF	GALLONS PER FLUSH		
GPM	GALLONS PER MINUTE		
HP	HORSE POWER		
INV	INVERT ELEVATION		

COMMENTS

-

RUNOUT PIPE SIZE

TER	FINISH	ADA	MOUNTING	CONNECTION	OPERATION	ACCESSORIES	P	RUNOUT	PIPE SIZ	E	
<b>/IPTION</b>	FINISH		WOONTING	CONNECTION	OPERATION	ACCESSORIES	CW	HW	w	v	
GPF A SENSE"	WHITE VITREOUS CHINA	YES	FLOOR	TANK	MANUAL	SEAT: BEMIS LUSTRA K4650	3/4"	-	4"	2"	
	WHITE VITREOUS CHINA	YES	WALL	-	FAUCET	-	1/2"	1/2"	1-1/4"	1-1/4"	
PM A SENSE"	POLISHED CHROME	YES	DECK	4" CENTERS	MANUAL	ASSE 1070 THERMOSTATIC MIXING VALVE	1/2	1/2	1-1/4	1-1/4	
	WHITE VITREOUS	YES	WALL	-	FAUCET	AIR ADMITTANCE VALVE (AAV)	_	_	1-1/2"	1-1/2"	

PLUMBING FIXTURE SCHEDULE - AMENITIES BUILDING

ERSENSE"	CHINA										
_	WHITE VITREOUS CHINA	YES	WALL	-	FAUCET	_	1/2"	1/2"	1-1/4"	1-1/4"	-
5 GPM EPA ERSENSE"	POLISHED CHROME	YES	DECK	4" CENTERS	MANUAL	ASSE 1070 THERMOSTATIC MIXING VALVE	1/2	1/2	1-1/4	1-1/4	-
_	WHITE VITREOUS CHINA	YES	WALL	-	FAUCET	AIR ADMITTANCE VALVE (AAV)	-	-	1-1/2"	1-1/2"	-
5 GPM EPA ERSENSE"	POLISHED CHROME	YES	DECK	SINGLE HOLE	MANUAL		1/2"	1/2"	-	-	-
-	POLISHED CHROME	-	WALL	-	MANUAL	-	1/2"	-	-	-	FREEZELESS
-	STAINLESS STEEL	_	EXTERIOR WALL	-	MANUAL	PRESSURE BALANCED SHOWER VALVE	1/2"	1/2"	-	-	FREEZELESS AND SELF DRAIN
-	GRAY GRANITE	_	INTERIOR WALL	-	MANUAL	-	1/2"	-	4"	2"	-
-	GRAY GRANITE	-	EXTERIOR WALL	-	MANUAL	-	1/2"	-	4"	2"	FREEZE-RESISTANT KIT
-	CAST BRASS	-	FLOOR	-	-	-	-	-	4"	2"	-
-	CAST IRON	-	FLOOR	-	-	-	-	-	4"	-	-
-	CAST IRON	-	FLOOR	-	-	_	-	-	4"	-	-
-	DURASTONE	_	WALL	_	FAUCET	AIR ADMITTANCE VALVE (AAV)	-	-	1-1/2"	1-1/2"	-

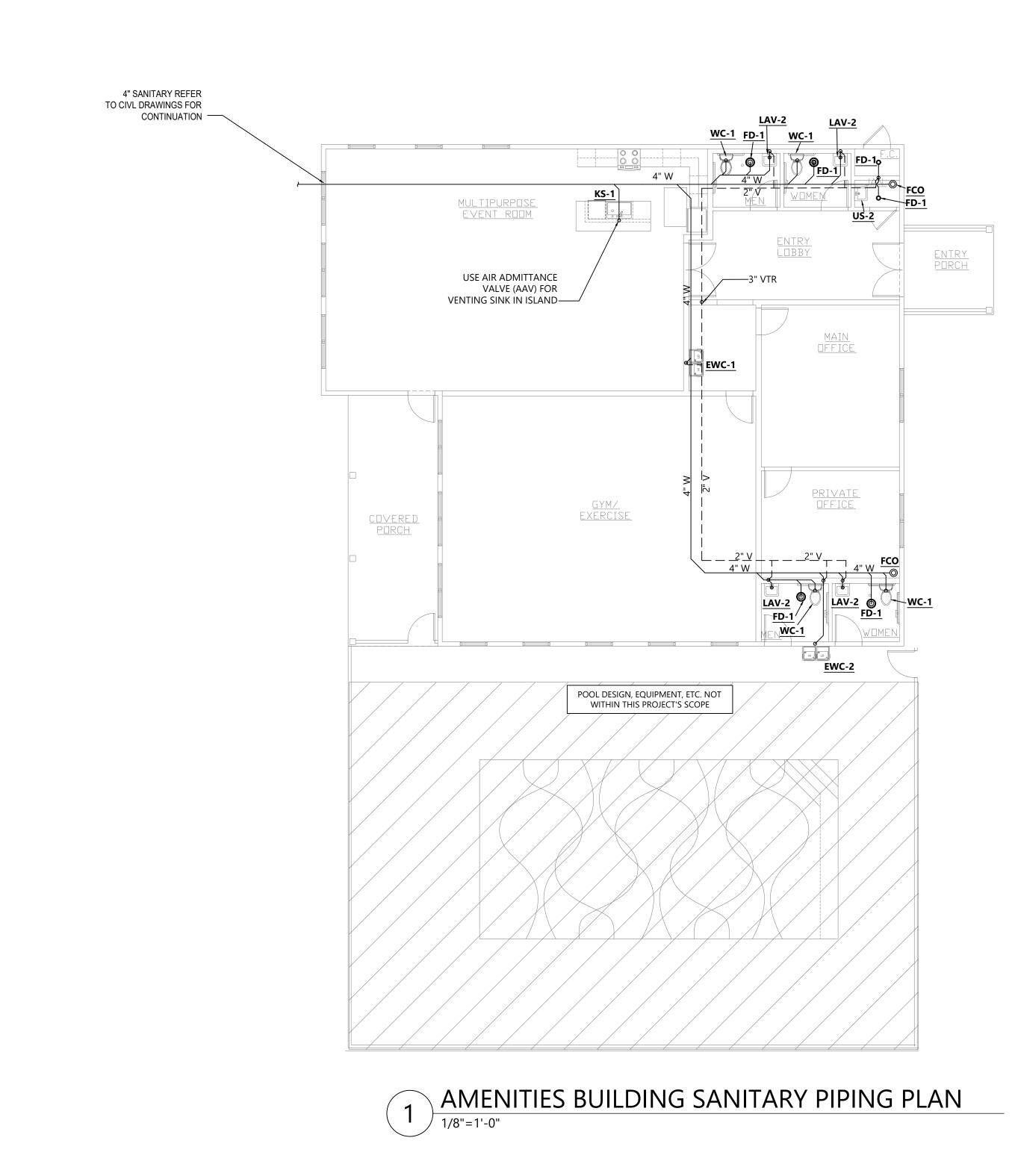
	HEATING INPUT (kW)	Volt/Ph	Mfg/Model #	Gallons	Notes
INK	9kW	240V/1ph	AMERICAN STANDARD/ENS40L-6	40	-

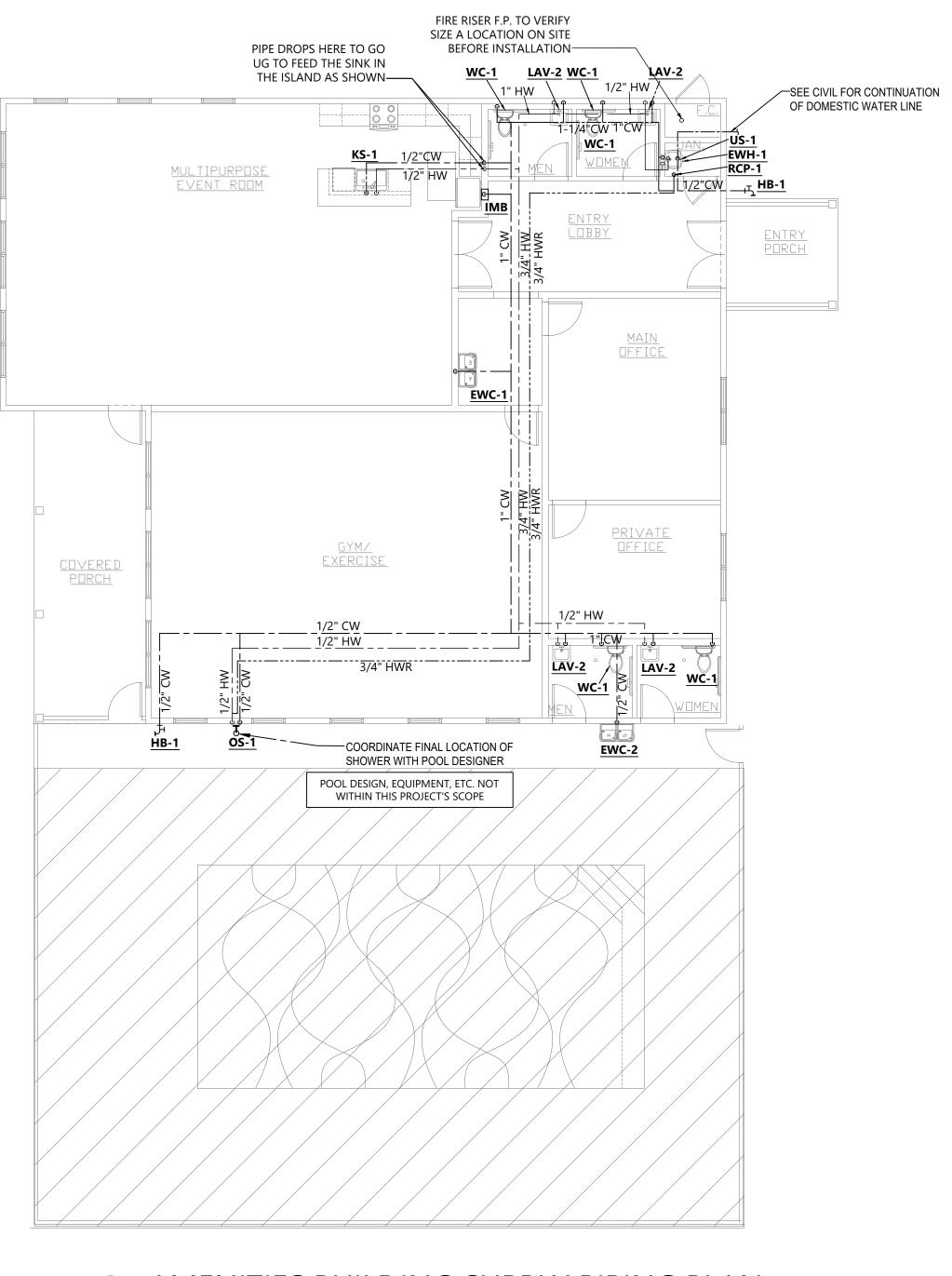
MANUAL

	PLUMBING MATERIALS AND NOTES	
	DOMESTIC WATER PIPING:	
	<ol> <li>DOMESTIC WATER PIPING AND JOINTS <u>ABOVE GRADE</u>: PROVIDE TYPE 'L' HARD DRAWN SEAMLESS COPPER TUBING (ASTM B 88) AND CAST COPPER ALLOY FITTINGS (ASME B16.18). JOINTS 2" AND SMALLER SHALL BE LEAD FREE 95-5 TIN/SILVER SOLDER JOINTS (ASTM B 32).</li> </ol>	
	<ol> <li>STERILIZE THE DOMESTIC WATER SYSTEM IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.</li> </ol>	
	3. INSULATE DOMESTIC WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH GLASS FIBER INSULATION HAVING A VAPOR BARRIER AND JACKET. PIPE INSULATION SHALL HAVE A CONDUCTIVITY	Wilde —
	NOT EXCEEDING 0.27 BTUH x SQ. FT. FOLLOW SCHEDULE BELOW: <u>SERVICE TYPE</u> <u>PIPE SIZES</u> <u>INSULATION THICKNESS</u> DOMESTIC HOT WATER & CIRCULATION 1/2" - 1-1/2" 1"	engineering
	DOMESTIC HOT WATER & CIRCULATION         1-1/2" - 4"         1-1/2"           DOMESTIC COLD WATER         1/2" - 1-1/4"         1/2"           DOMESTIC COLD WATER         1-1/2" - 4"         1/2"	MECHANICAL, ELECTRICAL & PLUMBING 15822 Kelly Park Cir Huntersville, NC (704) 439-7038 NC Firm License No. P-2182
	4. DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD AND SHALL BE PLENUM RATED. PROVIDE PVC JACKET FOR EXPOSED PIPING IN MECHANICAL ROOMS. INSULATION SHALL BE CONTINUOUS AT ALL HANGERS. PROVIDE GALVANIZED STEEL SHIELD BETWEEN PIPE HANGER AND INSULATION.	
	<ol> <li>PROVIDE TWO-PIECE, BRONZE OR BRASS BODY, FULL PORT, 600 PSI WOG, BALL TYPE SHUT-OFF VALVES WITH BLOW-OUT PROOF STEMS AND ADJUSTABLE PACKING GLANDS. VALVES SHALL BE LEAD FREE PER NSF 61, ANNEX G REQUIREMENTS. INSTALL VALVES IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.</li> </ol>	
	6. PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON TRAPEZE HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH DISSIMILAR OTHER METALS.	
	7. PROTECT COPPER PIPING AGAINST CONTACT WITH ALL MASONRY. WHERE COPPER IS SLEEVED THROUGH MASONRY, PROVIDE COPPER OR RED BRASS SLEEVES. WHERE COPPER MUST BE CONCEALED IN OR AGAINST MASONRY PARTITIONS, PROVIDE A HEAVY COATING OF ASPHALTIC ENAMEL ON THE COPPER PIPING AND 15# ASPHALT SATURATED FELT BETWEEN THE PIPING AND THE MASONRY PARTITION.	- PRELIMINARY - NOT FOR CONSTRUCTION
RER IEIGHT SQUARE INCH	8. DOMESTIC WATER SUPPLY PIPING SHALL BE TESTED AND PROVED WATERTIGHT UNDER A WATER PRESSURE OF NO LESS THAN THE WORKING PRESSURE OF THE SYSTEM, OR AN AIR TEST OF NO LESS THAN ONE-HUNDRED (100) PSI. THIS PRESSURE SHALL BE HELD FOR AT LEAST FIFTEEN (15) MINUTES. WATER USED IN TESTING SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY.	
JRE UNITS RE AND PRESSURE	SANITARY WASTE / VENT_PIPING:	
EAKER	<ol> <li>SANITARY WASTE <u>BELOW</u> GRADE: PROVIDE SCHEDULE 40 PVC PIPE AND SOCKET FITTINGS (ASTM D 2665) WITH SOLVENT WELD JOINTS (ASTM D2855). FOAM CORE PVC PIPE IS <u>NOT</u> APPROVED.</li> </ol>	
Roof IMN Contractor	<ol> <li>SANITARY WASTE/VENT <u>ABOVE</u> GRADE: PROVIDE SERVICE WEIGHT CAST IRON NO-HUB PIPE AND FITTINGS (CISPI 301) WITH NEOPRENE GASKET AND STAINLESS STEEL CLAMP JOINTS (CISPI 310).</li> </ol>	
NTRACTOR . CONTRACTOR ONTRACTOR	<ol> <li>SLOPE SANITARY WASTE PIPING AT 1/4" PER FOOT MINIMUM FOR PIPING 2-1/2" AND SMALLER AND 1/8" PER FOOT MINIMUM FOR PIPING 3" AND LARGER UNLESS NOTED OTHERWISE.</li> </ol>	
	<ol> <li>WHERE WASTE PIPING IS EXPOSED IN REST ROOM AREAS, PROVIDE CHROME PLATED BRASS PIPING, REMOVABLE P-TRAPS, MATCHING STOPS AND ESCUTCHEONS FOR ALL LAVATORIES.</li> </ol>	
	<ol> <li>SANITARY WASTE AND VENT SYSTEMS SHALL BE TESTED AND PROVED WATER TIGHT UNDER A HEAD PRESSURE OF NO LESS THAN 10 FT. THIS PRESSURE SHALL BE HELD FOR A PERIOD OF NO LESS THAN 15 MINUTES.</li> </ol>	SIGNATURE:
	6. INSULATE MECHANICAL ROOM FLOOR DRAIN BODIES, P-TRAP AND HORIZONTAL DRAIN PIPING ABOVE GRADE WITH	
	1" THICK GLASS FIBER INSULATION WITH VAPOR BARRIER AND JACKET. PLUMBING GENERAL NOTES	
	GENERAL REQUIREMENTS:	CLIENT: The Orchards at Naples Road, LL
	1. PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA STATE PLUMBING CODE	341 N Main Street Hendersonville, NC 28792
	AND WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. 2. SCOPE: PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL	Luis Graef: President
	<ul> <li>PLUMBING SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES.</li> <li>PERMITS: APPLY AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION. ACREAGE CHARGES, FACILITIES CHARGES AND BOND PROPERTY ASSESSMENTS ARE NOT TO BE CONSTRUED TO BE A PART OF THIS CONTRACT.</li> </ul>	
	4. WARRANTY: PROVIDE A ONE YEAR WARRANTY, FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER, FOR ALL	
	PLUMBING MATERIALS AND EQUIPMENT. 5. COORDINATE ALL PLUMBING PIPING LOCATIONS, ROUGH-IN LOCATIONS AND EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. FINAL PIPING AND EQUIPMENT LOCATIONS SHALL BE A CODE	Orchards
	<ul> <li>COMPLIANT INSTALLATION FOR ALL TRADES.</li> <li>FIELD VERIFY PROPER OPERATION OF EXISTING SYSTEMS BEFORE STARTING CONSTRUCTION. NOTIFY THE ARCHITECT / ENGINEER OF RECORD OF ANY PROBLEMS OR DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS AND/OR ANY POTENTIAL PROBLEMS OBSERVED BEFORE CONTINUING WORK IN THE EFFECTED</li> </ul>	PROPERTIES PROJECT:
	AREAS. 7. WHERE DISCREPANCIES ARE FOUND IN THE DRAWINGS AND SPECIFICATIONS THE MORE STRINGENT SHALL APPLY. CONTACT ENGINEER FOR CLARIFICATION.	a c c c c c c c c c c c c c c c c c c c
INING	<ol> <li>ALL PIPING SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA.</li> <li>ALL VALVES, BACKFLOW PREVENTERS, BOOSTER PUMPS, ETC. SERVING THE DOMESTIC WATER SYSTEM SHALL MEET LEAD FREE STANDARDS PER ANSI/NSF 372 AND NSF 61, ANNEX G.</li> </ol>	
	10. CUT WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF PLUMBING WORK. ALL CUTTING SHALL BE HELD TO A MINIMUM. PATCH AND FINISH SURFACES TO MATCH ADJOINING SURFACES.	at Ni t Co North
-	11. PLUMBING PLANS SHALL NOT BE SCALED. REFERENCE THE ARCHITECTURAL PLANS FOR ALL LOCATIONS OF PLUMBING FIXTURES, WALLS, DOORS, WINDOWS, ETC.	chards a oartment lersonville, N
	12. PLUMBING PIPING AND SPECIALTIES SHALL BE LOCATED CONCEALED IN WALLS, PARTITIONS OR ABOVE CEILINGS UNLESS NOTED OTHERWISE. PLUMBING PIPING IN EXPOSED AREAS SHALL BE RUN TIGHT TO UNDERSIDE OF STRUCTURE. PROVIDE ACCESS DOORS FOR CONCEALED SPECIALTIES.	Drchards Apartmen endersonville,
	13. DO <u>NOT</u> INSTALL PLUMBING PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES. INSTALL PLUMBING PIPING SHOWN IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION.	
	14. PROVIDE NON-CONDUCTING DIELECTRIC UNIONS WHENEVER CONNECTING DISSIMILAR METALS.	
	<ol> <li>ATTACH HANGERS TO STRUCTURE, HANGERS SHALL <u>NOT</u> ATTACH TO THE DECK.</li> <li>PROVIDE ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTORS, TRAP PRIMERS, ETC. CONCEALED IN MASONRY</li> </ol>	4
	WALLS, GYPBOARD WALLS AND/OR CEILINGS THAT WILL REQUIRE MAINTENANCE ACCESS. 17. <u>CORE DRILL THROUGH MASONRY (CMU BLOCK) WALLS FOR ALL PIPE PENETRATIONS</u> . WHEN DRILLING OPENINGS FOR INSULATED PIPES THE OPENING'S DIAMETER SHALL BE LARGE ENOUGH FOR PIPE INSULATION TO REMAIN	# REVISIONS DATE
	CONTINUOUS PASSING THROUGH THE OPENING. SEAL WATER TIGHT. PROVIDE ESCUTCHEONS IN EXPOSED FINISHED AREAS. 18. PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO: PLUMBING FIXTURES, DOMESTIC WATER SYSTEM, SANITARY	
	WASTE AND VENT SYSTEM, NATURAL GAS SYSTEM. <u>PLUMBING FIXTURES AND EQUIPMENT:</u>	
	<ol> <li>PROVIDE COMPLETE PLUMBING FIXTURES AND EQUIPMENT. INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAIL PIECES, ESCUTCHEONS, ETC.</li> </ol>	
	<ol> <li>PLUMBING FIXTURES AND EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.</li> </ol>	
	3. NO PRIVATE LABELED MATERIALS WILL BE ACCEPTED AS EQUALS TO PRODUCTS SPECIFIED HEREIN.	DWG INFO :
	4. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SUBSTITUTIONS TO SPECIFIED PLUMBING FIXTURES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO; PROVIDING MAINTENANCE ACCESS CLEARANCE, PIPING, ELECTRICAL, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, ETC. AND ANY MODIFICATIONS TO ASSOCIATED MECHANICAL, ELECTRICAL OR PLUMBING SYSTEMS REQUIRED BY THE EQUIPMENTS INSTALLATION INSTRUCTIONS. ALL COSTS ASSOCIATED WITH SUBSTITUTIONS SHALL BE INCLUDED IN THE ORIGINAL BASE BID.	ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: JS CHECKED BY: JK
	L	DWG DECRIPTION :
		PLUMBING COVER SHEET

SHEET #:

**P-00** 











## SPRINKLER DESIGN CRITERIA

OCCUPANCY	HAZARD	REMOTE AREA	HOSE STREAM	MAX HEAD COVERAGE	REMARKS
LIGHT HAZARD	0.10 GPM/SF	1500 SF	100 GPM	225 SF/HD	QR RESIDENTIAL SPRINKLERS THROUGHOUT
ESCUTCHEON	ONTRACTOR SHA	H ARCHITECT	/OWNER.		

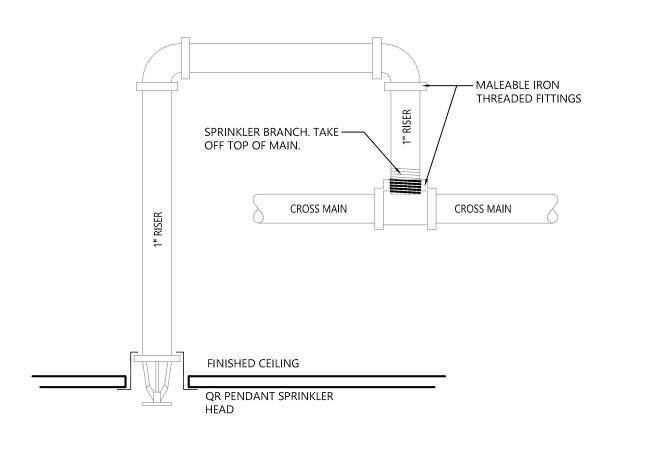
- SPRINKLER HEADS SHALL MATCH OWNER STANDARDS.
- 3. ESCUTCHEONS SHALL BE COMPATIBLE WITH MAKE AND MODEL OF HEAD TYPES.
- 4. ESCUTCHEONS SHALL BE INSTALLED TO ACCOUNT/ADJUST FOR CEILING TILE DEFLECTION.

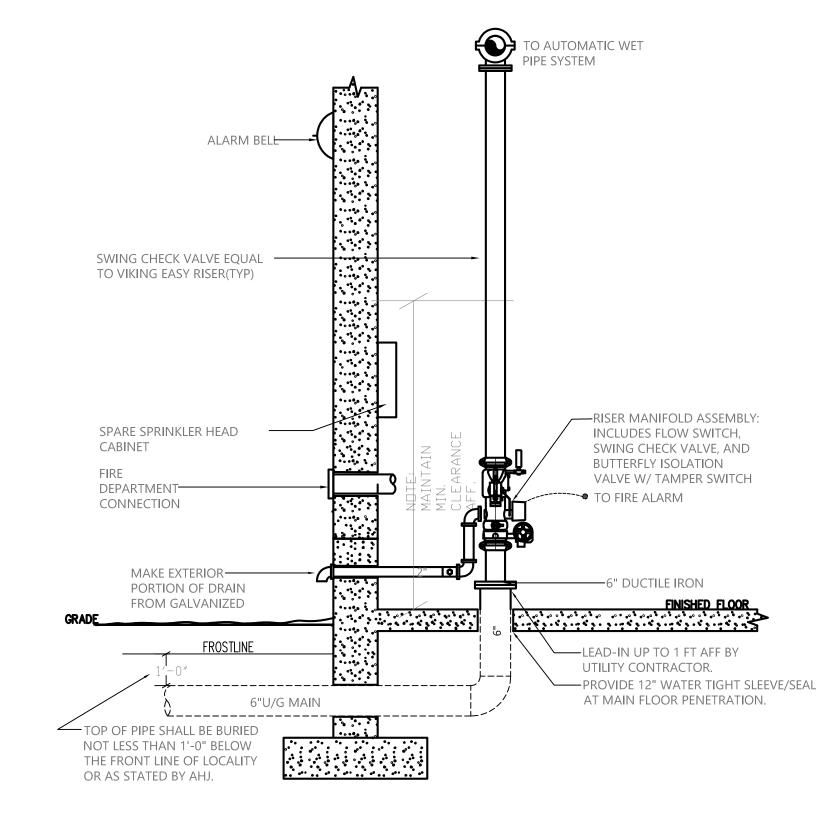
GENERAL PROJECT NOTES: 1. MOUNT SPRINKLERS WITHIN CENTER OF A.C.T.

- 2. SPRINKLERS SHALL BE A MINIMUM 4" FROM WALLS/OBSTRUCTION. SPRINKLERS SHALL BE INSTALLED A MINIMUM OF 6'-0" APART.
- 4. SOFFITS ARE TO BE SPRINKLED, UNLESS ARE APPLICABLE TO
- EXEMPTION PER NFPA 8.6.5.1.2 5. PROVIDE ADDITIONAL FIRE SPRINKLERS, AS MAY BE DIRECTED BY
- FIRE MARSHALL, AT NO ADDITIONAL COST TO OWNER. 6. PROVIDE UPRIGHT HEADS WITHIN OPEN CEILINGS.
- PROVIDE SEMI RECESSED HEADS WITHIN A.C.T. CEILINGS. PROVIDE CONCEALED HEADS WITHIN GYPSUM CEILINGS.
- COORDINATE SPRINKLERS WITH LIGHTING/RCP, MECHANICAL, AND ALL OTHERS TRADES WITHIN PLANE OF CEILING.

# **Scope of Work:**

PROJECT CONSISTS OF INSTALLING NEW WET SPRINKLER SYSTEM THROUGHOUT ALL APARTMENT BUILDINGS ON SITE.





# **DEFERRED SUBMISSION**

THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS WITHIN THE WILDE ENGINEERING DOCUMENT SET ARE PERFORMANCE BASED AND INTENDED TO CONVEY SCOPE OF THE WORK. THE FIRE PROTECTION CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL AS A DEFERRED SUBMITTAL TO THE LOCAL AHJ SHOP DRAWINGS AND HYDRAULIC CALCULATIONS INDICATING THE SPRINKLER SYSTEM LAYOUT, INCLUDING FINAL HEAD LOCATIONS AND MAIN/LEADER PIPING SIZING. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE THESE DOCUMENTS SEALED BY A LICENSED FIRE PROTECTION ENGINEER.

ECTION CONTRACTOR TO PI R SYSTEMS FOR NEW APART CALLY CALCULATED AND DE ISHING ALL NECESSARY EQU RIES. FIRE PROTECTION CON F SPRINKLER SYSTEMS, TESTION SYSTEM. R SYSTEMS SHALL BE DESIGN O MEET THE REQUIREMENTS Y HAVING JURISDICTIONS. RACTOR SHALL PROVIDE CO L DATA TO ALL AUTHORITY H O TO COMPLETION. N AND MAINTENANCE MAN ON CONTRACTOR. ECTION CONTRACTOR TO PI IC FUNCTION OF THE FIRE SP IENTS PER NFPA 25, EMERGE NSIDE THE UNITS WILL BE FIRE 20.1, ASTM F441. ALL FITTING TINGS AND PIPE WILL BE JOIR C FITTINGS TO BE UL/FM LIST VES WILL BE MADE OF AN IR H SOLID WEDGE UL/FM LIST R HEADS: PROVIDE 155° QUI WITHIN THE UNITS ON THE ALL BUILDINGS. PROVIDE 15 TYPES. ECTION CONTRACTOR TO IN NG AND SLEEVE PENTRATION STRUCTION IS 7 MULTI STOR MIC AND SLEEVE PENTRATION STRUCTION IS 7 MULTI STOR NG AND SLEEVE PENTRATION STRUCTION IS 7 MULTI STOR NG AND SLEEVE PENTRATION C SYSTEM FOR THE BUILDING R SUSTEM FOR THE SPRINKLER R SUSTEM FOR THE BUILDING R SUPPORT AND STRUCTU G LIVE AND DEAD LOADS SH WILL BE LOCATED WITH A VARAL MEMBERS SHALL BE COCO R SUPPORTING TO ENSURE	MENTS BUILDING ESIGNED. FIRE POI JIPMENT INCLUDI TRACTOR SHALL P ING, MATERIAL AN ED TO MEET STAN S OF THE OWNER'S OPIES OF DESIGN C HAVING JURISDIC ONTRACTOR TO P ND PIPING START IAVING JURISDICT NUALS TO BE PROVE ROVIDE TRAINING PRINKLER SYSTEMS SWILL BE CHLOR NED BY SOLVENT TED AND APPROVE CK RESPONSE RESS LOWER FLOORS A 55° DRY SIDEWAL NSTALL PIPING IN NS TO ACHIEVE FIF CECTION ( RY APARTMENT B) R NFPA-13R 2013 RS WITH THE SPR VILLE, NC. S SHALL BE PROVIE G SHALL BE WET P NTS OF NFPA-13R SINKLERS PROVIE CHESIGNED FOR I SINKLERS WITH SPR VILLE, NC. S SHALL BE WET P NTS OF NFPA-13R	S. FIRE PROTEC RTECTION CON ING PIPE, FITTIN PROVIDE HYDR ND LABOR FOR ND ARDS OF NF S INSURANCE O CALCULATIONS TIONS, OWNER ROVIDE COPIES ING AT 1'-0" AE TON, OWNER A VIDED TO THE O S FOR OWNER S, LOCATION C AND SHUT OFF INATED POLYV CEMENT FOR A ED. ZE TRIM, RISING ED. SIDENTIAL SPRI ACCORDANCE RE RESISTANCE CRITERI UILDINGS VAR ED. CPVC SPRI INKLER HEADS DED PER NFPA- PIPE SPRINKLER 2013 ED. LH OCCUPANCE RINKLER SPACE ION CONTRACT	CTION SYSTEMS NTRACTOR IS RI NGS,, VALVES A RAULIC CALCUL COMPLETE FIL PA 13R 2013EL COMPANY ANI S, DRAWINGS A R'S INSURANCE S OF MATERIAL BOVE FINISHED AND ENGINEER OWNER BY THE TO FAMILIARIZ DF RISER, MAIN VALVE LOCATI INYL CHLORIDE /INYL CHLORIDE /INYL CHLORIDE /INYL CHLORIDE STM F493. ALI G OUTSIDE SCR INKLERS IN THE L SPRINKLERS C IN ALL BREEZEV E WITH NFPA 13 E TO FIRE SEPAF A VING IN SIZE W INKLER PIPE WI S BEING FED FRO -13R 2013 ED. R SYSTEM, DESIG	S SHALL BE ESPONSIBLE IND ATIONS, RE D. THE DESIGN D THE LOCAL ND ALL E COMPANY D THE LOCAL ND ALL E COMPANY D THE LOCAL ND ALL E COMPANY D THE COR D THE TOP WAYS IN ALL D THE TOP CON THE TOP WAYS IN ALL D THE TOP CON THE TOP		E M	- PRELIMINA DOT FOR CONSTI	ARY - RUCTION
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