PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

PROJECT TEAM / CONSULTANTS

OWNER:

UNION COUNTY GOVERNMENT

PHONE: (###) ###-####
INSERT STREET ADDRESS HERE
CITY, STATE #####
CONTACT: INSERT NAME HERE

PROJECT MANAGEMENT:

DONEL SHELTON

PHONE: (###) ###-####
INSERT STREET ADDRESS HERE
CITY, STATE #####
CONTACT: INSERT NAME HERE

CONTRACTOR:

INSERT BUSINESS NAME HERE

PHONE: (###) ###-####
INSERT STREET ADDRESS HERE
CITY, STATE #####
CONTACT: INSERT NAME HERE

CIVIL:

WILL ROBINSON AND ASSOCIATES

PHONE: (865) 386-4200
1248 NORTH SHOREWOOD DRIVE
CARYVILLE, TN 37714
CONTACT: WILL ROBINSON

STRUCTURAL:

HAINES STRUCTRUAL GROUP

PHONE: (865) 329-9920
800 SOUTH GAY STREET, SUITE 1750
KNOXVILLE, TN 37929
CONTACT: CHARLIE JOHNSON

ARCHITECTURAL:

DESIGN INNOVATION ARCHITECTS, INC.

PHONE: (865) 637-8540
402 S GAY STREET, SUITE 201
KNOXVILLE, TN 37902
CONTACT: OREN YARBROUGH

MECHANICAL & PLUMBING:

BEDINGER CONSULTING ENGINEERS

PHONE: (865) 299-5975
5641 MERCHANTS CENTER BLVD, SUITE A104
KNOXVILLE, TN 37912
CONTACT: STEVEN ZIMNY

ELECTRICAL:

VREELAND ENGINEERS

PHONE: (865) 745-4406
3107 SUTHERLAND AVE
KNOXVILLE, TN 37919
CONTACT: ALAN SUMMERS

KITCHEN:

KATOM RESTAURANT SUPPLY, INC.

PHONE: (855) 389-2915
305 KATOM DRIVE
KODAK, TN 37764
CONTACT: MIKE KNOEBEL

GENERAL PROJECT NOTES

A GENERAL NOTES APPLY TO ALL SHEETS.

B ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS WHICH ARE NECESSITATED BY FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

C EACH TRADE SHALL BE RESPONSIBLE FOR KNOWLEDGE OF THE GENERAL NOTES INCLUDED THROUGHOUT THE CONTRACT DOCUMENTS AND THE APPLICABLE BUILDING CODES.

D THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TOOLS, LABOR, EQUIPMENT, MATERIALS AND ALL OTHER REQUIRED SUPPLIES AND SERVICES TO COMPLETE THE WORK IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS OF THE LOCAL GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL OPERATIONS ARE CARRIED OUT IN CONFORMANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES, STATUTES AND REGULATIONS CONCERNING, BUT NOT LIMITED TO, THE PROTECTION OF LIFE AND PROPERTY.

E THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS.

F GENERAL CONTRACTOR SHALL VISIT THE SITE AND REVIEW ANY EXISTING STRUCTURES, IF APPLICABLE, AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO BIDDING OR CONSTRUCTION.

G GENERAL CONTRACTOR SHALL COORDINATE AND MANAGE ALL TRADES AND ASPECTS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS.

H ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH LOCAL, COUNTY, STATE AND FEDERAL CODES AND ORDINANCES.

I GENERAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BIDDING AND BEGINNING THE WORK.

J GENERAL CONTRACTOR SHALL RETAIN ONE SET OF PLANS IN GOOD CONDITION TO NOTE AND DOCUMENT ALL CHANGES DURING CONSTRUCTION. THIS SET OF PLANS SHALL BE RETURNED TO THE OWNER AS PART OF THE REQUIRED CLOSE-OUT PACKAGE.

K GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS FOR FIRE PROTECTION, PLUMBING, SIGNAGE (WHERE APPLICABLE), MECHANICAL, & ELECTRICAL SYSTEMS, ETC. PRIOR TO INSTALLATION OF THOSE SYSTEMS UNLESS NOTED OTHERWISE.

L IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE GENERAL CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONDITIONS AT THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL INCLUDE BUT NOT BE LIMITED TO MAINTAINING ALL BARRICADES, WARNING SIGNS, FLASHING LIGHTS, AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND SAFETY REQUIREMENTS.

M PRIOR TO BEGINNING THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. APPLICATION AND PAYMENT FOR ALL NECESSARY LICENSES AND PERMITS REQUIRED FOR THIS PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND CONTRACT DOCUMENTS APPROVED BY ALL PERMITTING AUTHORITIES.

N FIREPROOFING, SEALANTS, & DAMPERS MAY NOT BE SHOWN ON SOME DRAWINGS FOR CLARITY. HOWEVER, ALL ASSEMBLIES MUST BE INSTALLED IN ACCORDANCE WITH THE LISTED LIFE SAFETY DESIGN. ALL ASSEMBLIES SHALL BE INSTALLED & COORDINATED WITH ALL DISCIPLINES AS OUTLINED IN THE APPLICABLE U.L. (OR EQUIVALENT) DETAIL AS CALLED OUT IN THE LIFE SAFETY DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE OWNER'S REPRESENTATIVE BEFORE CONTINUING CONSTRUCTION.

O THESE DRAWINGS ARE ONE PORTION OF THE CONTRACT DOCUMENTS. AS SUCH, THEY ARE NOT TO BE DIVIDED INTO PARTIAL SETS AND DISTRIBUTED TO DIFFERENT PARTIES/TRADES WITHOUT THE REMAINING PORTIONS OF THE CONTRACT DOCUMENTS. IF PARTIAL SETS ARE DISTRIBUTED BY THE GENERAL CONTRACTOR, THEN THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION AND SHALL PAY FOR ANY ADDITIONAL ASSOCIATED COSTS RELATED TO THE COORDINATION OR ANY REMEDIATION WORK ARISING FROM THE PARTIAL DISTRIBUTION OF THE CONTRACT DOCUMENTS. THIS PAYMENT SHALL OCCUR AT NO ADDITIONAL COSTS TO THE OWNER, ARCHITECT OR ANY OF THEIR EMPLOYEES OR CONSULTANTS.

P DETAILS ARE INTENDED TO SHOW DESIGN INTENT OF ACCOMPLISHING WORK. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS AND SHALL BE INCLUDED AS PART OF THE WORK.

Q DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CAN NOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

R UNLESS SHOWN OR NOTED OTHERWISE, USE CONSTRUCTION DETAILS AND PRACTICES COMMON TO THE STANDARDS OF THE TRADES.

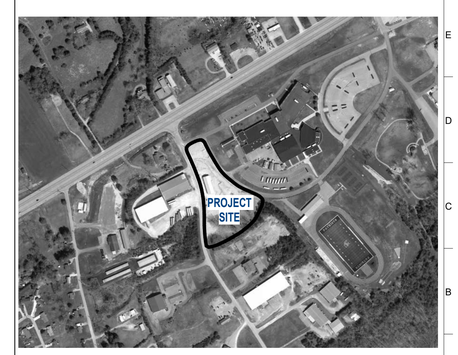
S GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS, OR OTHER SUPPORT FOR ALL ITEMS REQUIRING THE SAME. SUCH ELEMENTS INCLUDE BUT ARE NOT LIMITED TO MILLWORK, RESTROOM ACCESSORIES, WALL STOPS, AND RAILINGS.

T ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES AND SHALL BE OF BEST PRACTICE OF EACH TRADE.

U GENERAL CONTRACTOR SHALL VERIFY AND MAINTAIN ALL THE REQUIRED CLEARANCES AROUND INSTALLED EQUIPMENT.

V EACH DISCIPLINE (MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, ETC.) SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ACCESS PANELS OR DOORS FOR THEIR SCOPE OF WORK. ACCESS DOORS AND PANELS SHALL BE OF APPROPRIATE SIZE AND CONSTRUCTION OF METAL WITH GYPSUM BOARD PANEL INSERTS FOR THE DOOR FACE UNLESS NOTED OTHERWISE. ACCESS PANELS SHALL BE PRIMED AND PAINTED TO MATCH ADJACENT SURFACE. ACCESS DOORS AND PANELS SHALL COMPLY WITH FIRE RATINGS OR SMOKE PARTITION REQUIREMENTS AS NOTED IN THE DRAWING.

W SUBSTITUTION OF SPECIFIED MATERIALS WILL ONLY BE ACCEPTED DURING THE BID PHASE AND MUST BE SUBMITTED TO THE ARCHITECT AS AN EQUAL PRODUCT FOR APPROVAL PER CONDITIONS OF THE CONTRACT DOCUMENTS.



A04 PROJECT SITE MAP / LOCATION

NOT TO SCALE

DIA
Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

GREGORY SCOTT CAMPBELL
REGISTERED ARCHITECT
AGRICOLA
No. 101063
STATE OF TENNESSEE
2024-04-01

PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

NO.	ISSUED BY	DATE

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SHEET DESCRIPTION

COVER

G000

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

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G199	ARCH LEGENDS & ABBREVIATIONS	2024-04-01				
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C101	SITE LAYOUT PLAN	2024-03-15				
C102	EROSION CONTROL - 1	2024-03-15				
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Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

GREGORY SCOTT CAMPBELL
REGISTERED ARCHITECT
AGRICOLA
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2024-04-01

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115 DURHAM DR, MAYNARDVILLE, TN 37807

NO.	ISSUED BY	DATE
0	REV 01	2024-06-28

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SHEET DESCRIPTION

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G001

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

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2018 INTERNATIONAL BUILDING CODE (IBC):

IBC CHAPTER 1: SCOPE & ADMINISTRATION

RENOVATION OF EXISTING COMMERICAL KITCHEN, STORAGE, OFFICE, AND RESTROOMS + AN ADDITION TO THE BUILDING WITH A COMMERCIAL KITCHEN AND ADDITIONAL STORAGE, RESTROOMS, AND A LAUNDRY ROOM. PRIMARY FUNCTION OF SPACE IS AS A COMMERICAL KITCHEN W/ AN EDUCATIONAL COMPONENT FOR COMMUNITY COOKING CLASSES.

IBC CHAPTER 3: OCCUPANCY CLASSIFICATION & USE

PRIMARY OCCUPANCY:	GROUP E	EDUCATIONAL - SHOP OR VOCATIONAL USE, NON-SPRINKLERED
SECONDARY OCCUPANCY:	GROUP A2	ASSEMBLY - COMMERCIAL KITCHEN - NON-SPRINKLERED
		PRIMARY FUNCTION OF ENCLOSED SPACE IS A COMMERCIAL KITCHEN AND STORAGE - REAR ADDITION TO HAVE EDUCATIONAL COMPONENT

IBC CHAPTER 4: SPECIAL DETAILED REQUIREMENTS

N/A — N/A

IBC CHAPTER 5: GENERAL BUILDING HEIGHTS & AREAS

PROJECT GRADE PLANE ELEVATION:		1175.50 FFE
ALLOWABLE BUILDING HEIGHT (w/o MODIFICATIONS):		40' MAX ALLOWED (TABLES 504.3 & 504.4)
ACTUAL BUILDING HEIGHT:	NORTH ELEVATION:	21' PROVIDED - 1-STORY
	EAST ELEVATION:	21' PROVIDED - 1-STORY
	SOUTH ELEVATION:	21' PROVIDED - 1-STORY
	WEST ELEVATION:	21' PROVIDED - 1-STORY
MEZZANINES & EQUIPMENT PLATFORMS:		N/A
ALLOWABLE BUILDING AREA (w/o MODIFICATIONS):		A-2 OCCUPANCY, NON-SPRINKLERED = 6,000 SF MAX
ACTUAL BUILDING AREA:	LEVEL 01:	EXISTING + NEW BUILDING ADDITION = 4,810 SF
MIXED USE & OCCUPANCY:		NON-SEPARATED MIXED USE OCCUPANCIES
REQUIRED SEPARATION OF OCCUPANCIES:		NO SEPARATION REQUIREMENT

IBC CHAPTER 6: TYPES OF CONSTRUCTION

CONSTRUCTION TYPE:	TYPE VB	
FIRE RESISTANCE RATING REQUIREMENTS (TABLE 601):		
PRIMARY STRUCTURAL FRAME:	0 HOUR	
BEARING WALLS:		
EXTERIOR:	0 HOUR	
INTERIOR:	0 HOUR	
NON-BEARING WALLS & PARTITIONS:		
EXTERIOR (TABLE 602):	REQ'S. LISTED BELOW	PER FIRE SEPARATION DISTANCE
INTERIOR:	0 HOUR	
FLOOR CONSTRUCTION & SECONDARY MEMBERS:	0 HOUR	
ROOF CONSTRUCTION & SECONDARY MEMBERS:	0 HOUR	

IBC CHAPTER 7: FIRE & SMOKE PROTECTION FEATURES

FIRE RESISTANCE RATING REQUIREMENTS:	WALLS & PARTITIONS	OPENINGS (TABLE 716.1)	
		DOORS	WINDOWS
FIRE WALLS (SECTION 706.4):	N/A	N/A	*NOT PERMITTED
FIRE BARRIERS (SECTION 707.3):	N/A	N/A	
FIRE PARTITIONS (SECTION 708.3):	N/A	N/A	<## MIN.>
SMOKE BARRIERS (SECTION 709.3):	N/A	N/A	<## MIN.>
SMOKE PARTITIONS (SECTION 710.3):	N/A	N/A	-
SHAFT ENCLOSURES (SECTION 713.4):	N/A	N/A	-

IBC CHAPTERS 8 - 9:

THE REQUIREMENTS OF CHAPTERS 8 - 9 ARE REFERENCED IN THE PROJECT SPECIFICATIONS / ON THE DRAWINGS AS APPLICABLE TO THIS PROJECT.

IBC CHAPTER 10: MEANS OF EGRESS

*NOTE: ALL AREAS ARE APPROXIMATE & INTENDED FOR CODE USE ONLY

FLOOR	FUNCTION OF SPACE	OCCUPANT LOAD FACTOR	AREA	CALCULATED OCC. LOAD	ACTUAL OCC. LOAD	TOTALS PER FLOOR
LEVEL 01 - KITCHEN	COMMERCIAL KITCHEN	200 GROSS	1976 SF	10	10	
LEVEL 01 - EDUCATION	COMMERCIAL KIT. / CLASSROOM	50 NET	1660 SF	34	24	48 TOTAL OCC.
LEVEL 01 - STORAGE	STORAGE	300 GROSS	1025 SF	4	0	

EGRESS WIDTH PER OCCUPANT SERVED:	
STAIRWAYS:	N/A
OTHER COMPONENTS:	9.6 INCHES, (0.2 INCHES PER OCCUPANT, UNSPRINKLERED)
MINIMUM NUMBER OF EXITS:	
MINIMUM 2 EXIT OR EXIT ACCESS DOORWAYS PER OCCUPIED SPACE, WHERE THE DESIGN OCCUPANT LOAD IS 49 OR MORE PERSONS (GROUP A-2, E), OR COMMON PATH OF EGRESS TRAVEL DISTANCE OF 75 FEET (GROUP A2, E) EXCEEDS THE ALLOWABLE VALUES (TABLES 1006.2.1 & 1006.3.3)	
SEPARATION OF EXIT & EXIT ACCESS DOORWAY CONFIGURATION:	DISTANCE APART OF EQUAL TO OR NOT LESS THAN 1/2 MAXIMUM DIAGONAL DIMENSION (SECTION 1007.1.x)

FLOOR	OCC. LOAD	# OF EXITS	OCC. / EXIT	EGRESS DOOR WIDTH (IN.)		EGRESS STAIR WIDTH (IN.)		EGRESS RAMP / CORRIDOR WIDTH (IN.)		A.o.R
				REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	
LEVEL 01	48	3	16	3	MIN. 32" CLEAR (§1010.1.1)	4	MIN. 36" (§1011.2.1)	3	MIN. 36" (§1020.2)	NO

EXIT ACCESS TRAVEL DISTANCE:	DOES NOT EXCEED 200 FEET, NON-SPRINKLERED FOR OCCUPANCY GROUP A2 & E, (TABLE 1017.2)
MAXIMUM DEAD END COORIDOR:	DOES NOT EXCEED 20 FEET, NON-SPRINKLERED FOR OCCUPANCY GROUP A2 & E, (SECTION 1020.4.x)
EMERGENCY ESCAPE & RESCUE OPENING REQ'D. (SECTION 1030):	N/A

2018 INTERNATIONAL BUILDING CODE (IBC) - CONTINUED:

IBC CHAPTER 11: ACCESSIBILITY

TOTAL NUMBER OF PARKING SPACES PROVIDED: 72

ACCESSIBLE PARKING SPACES (TABLE 1106.1):	COMPACT		STANDARD		ACCESSIBLE		VAN ACCESS. (§1106.5)	
	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.
		0		64		2		6

TOTAL NUMBER OF DWELLING UNITS PROVIDED: <XX>

ACCESSIBLE DWELLING UNITS & SLEEPING UNITS (SECTION 1107):	ACCESSIBLE		TYPE 'A'		TYPE 'B'		TYPE 'C'	
	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

IBC CHAPTER 12 - 16:

THE REQUIREMENTS OF CHAPTERS 12 - 16 ARE REFERENCED IN THE PROJECT SPECIFICATIONS / ON THE DRAWINGS AS APPLICABLE TO THIS PROJECT.

IBC CHAPTER 17: SPECIAL INSPECTIONS & TESTING REQUIREMENTS

*NOTE: THIS PROJECT IS SUBJECT TO ALL APPLICABLE SECTIONS OF THE CHAPTER 17 REQUIREMENTS UNLESS SPECIFICALLY NOTED OTHERWISE, INCLUDING THE FOLLOWING ABBREVIATED SECTIONS LISTED BELOW, AS WELL AS DOCUMENTATION OF ALL RECORDED APPROVALS, SITE OBSERVATIONS, & TESTING REPORTS NOT LISTED BELOW.

REQUIRED SPECIAL INSPECTIONS & TESTS:

SECTION 1705.1.1	SPECIAL CASES	<IF APPLICABLE, LIST ADDITIONAL INSPECTION & TESTING REQUIREMENTS AS DETERMINED BY THE BUILDING OFFICIAL>

*NOTE: FOR CHAPTER 17, SECTIONS 1705.2 THROUGH 1705.13, REFER TO ADDITIONAL TESTING REQUIREMENTS AS APPLICABLE ON CONSULTANT DRAWINGS, TYP.

SECTION 1705.14	SPRAYED FIRE-RESISTANT MATERIALS
SECTION 1705.15	MASTIC & INTUMESCENT FIRE-RESISTANT COATINGS
SECTION 1705.16	EXTERIOR INSULATION & FINISH SYSTEMS (E.I.F.S.)
SECTION 1705.17	FIRE-RESISTANT PENETRATIONS & JOINTS
SECTION 1705.18	TESTING FOR SMOKE CONTROL

IBC CHAPTER 18 - 28:

THE REQUIREMENTS OF CHAPTERS 18 - 28 ARE REFERENCED IN THE PROJECT SPECIFICATIONS / ON THE DRAWINGS AS APPLICABLE TO THIS PROJECT.

IBC CHAPTER 29: PLUMBING SYSTEMS

FLOOR	OCCUPANCY	OCC. LOAD	WATER CLOSETS				LAVATORIES				D.F.		SERVICE SINK	
			MALE		FEMALE		MALE		FEMALE					
			REQ.	PROV.	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.
LEVEL 01:	KITCHEN / CLASSROOM	48	1.00	6.00	1.00	6.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	1.00
	OUTDOOR MERCANTILE	104	1.00	6.00	1.00	6.00	1.00	1.00	1.00	1.00	N/A	N/A	N/A	N/A
		SUBTOTAL:	1.00	6.00	1.00	6.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	1.00

ARCHITECT NOTE: PLUMBING COUNT TAKES INTO ACCOUNT THE COVERED OUTDOOR OCCUPANCY FOR THE COMMUNITY FARMERS MARKET (MERCANTILE)

ARCHITECT NOTE: PLUMBING COUNT ASSUMES MORE RESTRICTIVE OCCUPANCY FOR KITCHEN/CLASSROOM SPACES OF 'E'

PLUMBING FIXTURE COUNT EXCEPTIONS: WATER DISPENSER IN LIEU OF DRINKING FOUNTAIN

IBC CHAPTER 30 - 35:

THE REQUIREMENTS OF CHAPTERS 30 - 35 ARE REFERENCED IN THE PROJECT SPECIFICATIONS / ON THE DRAWINGS AS APPLICABLE TO THIS PROJECT.

ADDITIONAL REQUIREMENTS:

*NOTE: FOR ADDITIONAL CODE REQUIREMENTS REFER TO PROJECT SPECIFICATIONS & DRAWINGS PER DISCIPLINE, TYP.

PROJECT IDENTIFICATION:

PROJECT NAME:	HERITAGE PARK EXPANSION & RENOVATION
PROJECT NUMBER:	23071
LOCATION:	150 DURHAM DR, MAYNARDVILLE, TN

SITE ZONING & CODES REVIEW:

RESEARCH BY:	OREN YARBROUGH, DESIGN INNOVATION (DIA)
RESEARCH DATE:	2024-01-20
RESEARCH VERIFIED BY:	GREG CAMPBELL, DESIGN INNOVATION (DIA), ARCHITECT OF RECORD

AUTHORITIES HAVING JURISDICTION (AHJ):

- CITY OF MAYNARDVILLE - BUILDING CODES DEPT.
- CITY OF MAYNARDVILLE - ENGINEERING DEPT.
- CITY OF MAYNARDVILLE - FIRE PREVENTION BUREAU
- TN DEPARTMENT OF ENVIRONMENT & CONSERVATION (TDEC)
- UNION COUNTY HEALTH DEPARTMENT
- UNION COUNTY PLANNING COMMISSION

ZONING ORDINANCES & AMENDMENTS:

- CITY OF MAYNARDVILLE ZONING ORDINANCE

APPLICABLE CODES & GUIDELINES:

2018	INTERNATIONAL BUILDING CODE (IBC)
2009	INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2018	INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2018	INTERNATIONAL FIRE CODE (IFC)
2018	INTERNATIONAL FUEL GAS CODE (IFGC)
2018	INTERNATIONAL MECHANICAL CODE (IMC)
2012	INTERNATIONAL PLUMBING CODE (IPC)
2017	NATIONAL ELECTRIC CODE (NEC)
2009	ICC / ANSI A117.1 ACCESSIBLE & USABLE BUILDINGS & FACILITIES
2010	AMERICANS WITH DISABILITIES ACT (ADA) - ACCESSIBILITY GUIDELINES
2012	NFPA 101

PROJECT SCOPE:

EXISTING BUILDING IS A COVERED OUTDOOR SHED STRUCTURE SERVING AS A COMMUNITY FARMERS MARKET WITH AN EXISTING COMMERCIAL KITCHEN AND CONCESSION AREA WITH PUBLIC BATHROOMS. STRUCTURE IS CONSTRUCTED OF WOOD STUDS AND COLUMNS WITH A PREFINISHED METAL ROOF AND SIDING.

RENOVATION OF EXISTING COMMERICAL KITCHEN, STORAGE, OFFICE, AND RESTROOMS + AN ADDITION TO THE BUILDING WITH A COMMERCIAL KITCHEN AND ADDITIONAL STORAGE, RESTROOMS, AND A LAUNDRY ROOM. PRIMARY FUNCTION OF SPACE IS AS A COMMERICAL KITCHEN W/ AN EDUCATIONAL COMPONENT FOR COMMUNITY COOKING CLASSES.

DIA
Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

GREGORY SCOTT CAMPBELL
REGISTERED ARCHITECT
AGRICULTURE
Lic. 101040
STATE OF TENNESSEE
2024-04-01

PRE-DESIGN / PROPOSAL
HERITAGE PARK ADDITION
115 DURHAM DR, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION

PROJECT CODE REQUIREMENTS

G099

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

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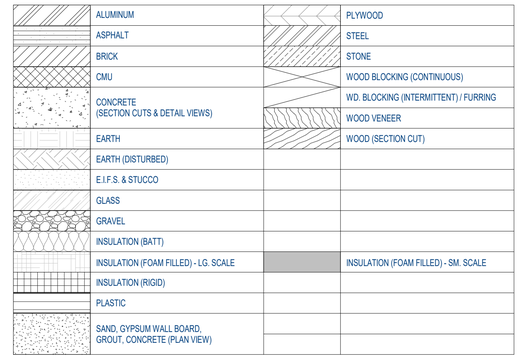
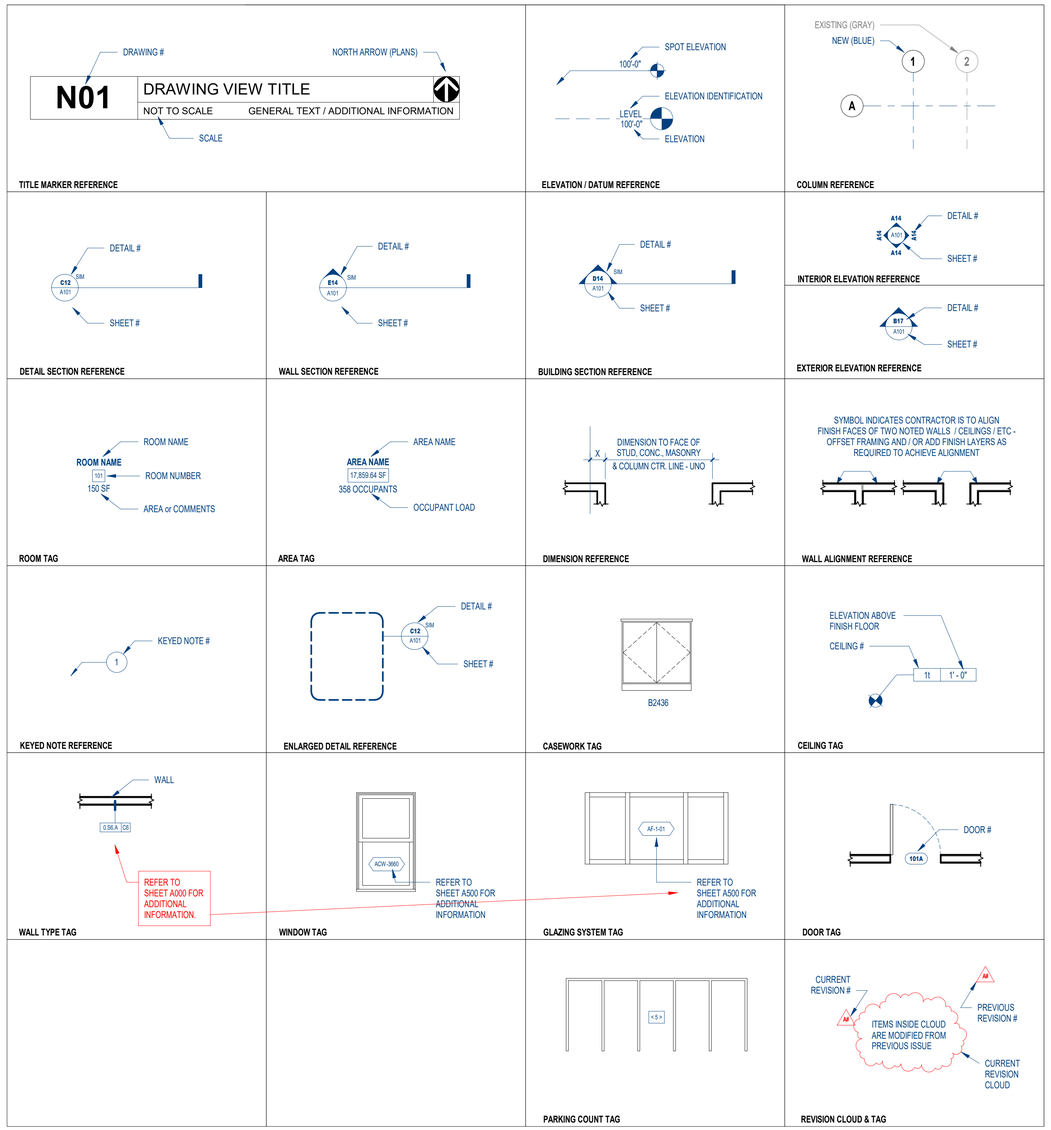
==	ARCHITECTURAL
ABV	ABOVE
ACC	ACCESSIBLE (ACCESSIBILITY)
ACT	ACOUSTICAL CEILING TILE
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT
ADJT	ADJUSTABLE
ADO	AUTOMATIC DOOR OPENER
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMB	AMBIENT
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
APPD	APPENDIX
APPROX.	APPROXIMATE
ARCH	ARCHITECT(URAL)
AS	ARCHITECTURAL SITE
ASB	ASBESTOS
ASC	ABOVE SUSPENDED CEILING
ASPH	ASPHALT
AUTO	AUTOMATIC
AVG	AVERAGE
AWC	ACOUSTICAL WALL COVERING
BATT	BATT INSULATION
BD	BOARD
BEJ	BUILDING EXPANSION JOINT
BEL	BELOW
BITUM	BITUMINOUS
BJ	BRICK JOINT
BLDG	BUILDING
BLK(G)	BLOCK(ING)
BM	BEAM
BO	BOTTOM OF
BRCG	BRACING
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BRZ	BRONZE
BS	BOTH SIDES
BSMT	BASEMENT
BT	BENT
BUR	BUILT-UP ROOFING
BVL	BEVELED
BW	BOTH WAYS
C#	CIVIL
CAB	CABINET
CALC	CALCULATION (CALCULATED)
CAP	CAPACITY
CB	CATCH BASIN
CEM	CEMENT
CER	CERAMIC
CFM	CUBIC FEET PER MINUTE
CFT	CUBIC FOOT
CG	CORNER GUARD
CHAM	CHAMFER
CHIM	CHIMNEY
CHT	CEILING HEIGHT
CI	CAST IRON
CIP	CAST IN PLACE
CIR	CIRCULAR
CIRC	CIRCUMFERENCE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLKG	CAULKING
CLO	CLOSET
CLR	CLEAR(ANCE)
CM	CENTIMETER(S)
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEANOUT
CO2	CARBON DIOXIDE
COL	COLUMN
COMB	COMBUSTIBLE
COMM(S)	COMMUNICATION(S)
COMP	COMPRESSED(ED),(ION),(IBLE)
COMPT	COMPARTMENT
CONC	CONCRETE
COND	CONDITION
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE(OUS)
CONTR	CONTRACT(OR)
COR	CORNER
CORR	CORRIDOR
COV	COVER(ED)
CPL	CEMENT PLASTER
CPR	COPPER
CPT	CARPET
CRES	CORROSIVE RESISTANT
CRS	COURSE(S)
CSMT	CASEMENT
CST	CAST STONE
CTC	CENTER TO CENTER
CTR	CENTER
CU	CONDENSING UNIT
CV	CEILING VENT
CY	CUBIC YARDS
CYL	CYLINDER
D	DRYER
d	PENNY (AS IN NAIL, Id)
DA	DOUBLE ACTIVE
DB	DRY BULB
DBL	DOUBLE
DBLH	DOUBLE HUNG
DD	DESIGN DEVELOPMENT
DEG	DEGREE
DEMO	DEMOLISH(ED) (DEMOLITION)
DEP	DEPRESSED
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGRAM
DIM(S)	DIMENSION(S)
DISC	DISCONNECT
DIST	DISTRIBUT(ED),(ION)
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DP	DAMPPROOFING
DPR	DAMPER
DR	DOOR
DRN	DRAIN
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER
DWT	DUMBWAITER
E	EAST
E#	ELECTRICAL
EA	EACH
EB	EXPANSION BOLT
EF	EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSE(URE)
ENTR	ENTRANCE, ENTERING
EO	EDGE OF
EP	ELECTRIC PANEL
EPXY	EPOXY COATING
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	ESCALATOR
EST	ESTIMATE(D)
EWC	ELECTRIC WATER COOLER
EXD	EXIT DEVICE
EXH	EXHAUST
EXP	EXPOSED
EXPN	EXPANSION
EXST	EXISTING
EXT	EXTERIOR
F	FAHRENHEIT
F/C	FLOOR-CEILING
FA	FIRE ALARM
FAS	FASTEN(ER)
FB	FACE BRICK
FBD	FIBERBOARD
FBO	FURNISHED BY OTHERS
FC	FIRE CODE
FCG	FACING
FCU	FLOOR COIL UNIT
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FFE	FINISHED FLOOR ELEVATION
FG	FIBERGLASS
FH	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH(ED)
FIX	FIXTURE
FJT	FLUSH JOINT
FL	FLOOR
FLASH	FLASHING
FLEX	FLEXIBLE
FLG	FLOORING
FLR	FLOOR
FLUOR	FLUORESCENT
FN	FENCE
FND	FOUNDATION
FO	FACE OF
FP#	FIRE PROTECTION
FPL	FLOOR PLATE
FRRF	FIRE PROOF
FR	FRAME(D)(ING)
FRA	FRESH AIR
FRC	FIRE-RESISTANT COATING
FRP	FIBER REINFORCED PLASTIC
FRT	FIRE RETARDANT
FS	FULL SIZE
FT	FEET
FTG	FOOTING
FUR	FURR(ED)(ING)
FUT	FUTURE
FV	FIELD VERIFY
G	GAS
G#	GENERAL INFORMATION
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACT(OR)
GEN	GENERAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTOR
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRP	GLASS FIBER REINFORCED PLASTER
GKT	GASKET(ED)
GL	GLASS, GLAZING
GLB	GLASS BLOCK
GLF	GLASS FIBER
GND	GROUND
GOV	GOVERNMENT
GPL	GYPSUM LATH
GPM	GALLONS PER MINUTE
GRL	GUARD RAIL
GRN	GRANITE
GRTG	GRATING
GT	GROUT
GUT	GUTTER
GVL	GRAVEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
GYP BD	GYPSUM BOARD
HB	HOSE BIBB
HBD	HARD BOARD
HC	HOLLOW CORE
HCAP	HANDICAP(PED)
HCWD	HOLLOW CORE WOOD DOOR
HD	HEAVY DUTY
HDR	HEADER
HDW	HARDWARE
HGT	HEIGHT
HK	HOOK(S)
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
HRL	HAND RAIL
HS	HIGH STRENGTH
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HWD	HARDWOOD
HWH	HOT WATER HEATER
HYD	HYDRANT
HYDR	HYDRAULIC
IC	INTERCOM
ID	INSIDE DIAMETER
IFC	ISSUE(D) FOR CONSTRUCTION
IIC	IMPACT INSULATION CLASS
IN	INCH
INCL	INCLUDE(D)(ING)
INSUL	INSULATE(ING)(ION)(ED)
INT	INTERIOR
INTM	INTERMEDIATE
INV	INVERT(ED)
IR GYP	IMPACT RESISTANT GYPSUM WALL BOARD
JB	JUNCTION BOX
JC	JANITORS CLOSET
JCT	JUNCTION
JF	JOINT FILLER
JST	JOIST
JT	JOINT
KD	KILN-DRIED
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE(D)
LAV	LAVATORY
LBR	LUMBER
LBS	POUNDS
LF	LINEAR FEET (FOOT)
LG	LENGTH
LH	LEFT HAND(ED)
LIN	LINEAR
LKR	LOCKER
LL	LIVE LOAD
LNDY	LAUNDRY
LNTL	LINTEL
LONG	LONGITUDINAL
LP	LIGHTPROOF
LR	LIVING ROOM
LT	LIGHT
LTG	LIGHTING
LTWT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
LVR	LOUVER
LWC	LIGHT WEIGHT CONCRETE
M	METER(S)
M#	MECHANICAL
MAS	MASONRY
MATL	MATERIAL(S)
MAX	MAXIMUM
MBR	MEMBER
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MED	MEDIUM
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTUR(ER)
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLD	MOULD(ING)
MM	MILLIMETER(S)
MMB	MEMBRANE
MO	MASONRY OPENING
MOD	MODIFIED
MONO	MONOLITHIC
MOV	MOVABLE
MR	MOISTURE RESISTANT
MRB	MARBLE
MRD	METAL ROOF DECK
MS	MOP SINK
MSTC	MASTIC
MTD	MOUNT(ED)(ING)
MTL	METAL
MULL	MULLION
MWK	MILLWORK
N	NORTH
NAT	NATURAL
NFPA	NATIONAL FIRE PROTECTION AGENCY
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
NREQD	NOT REQUIRED
NS	NO SCALE
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OFF	OFFICE
OH	OVERHEAD
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
OTS	OPEN TO STRUCTURE
OVRL	OVERALL
P#	PLUMBING
PAR	PARALLEL
PBD	PARTICAL BOARD
PC	PIECE
PCF	POUNDS PER CUBIC FOOT
PED	PEDESTAL
PERF	PERFORATE(D)
PERI	PERIMETER
PF	PRE-FINISHED
PH	PHASE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FEET (FOOT)
PLYWD	PLYWOOD
PNL	PANEL
POL	POLISHED
PORC	PORCELAIN
PORT	PORTABLE
PP	POWER POLE
PR	PAIR
PREFAB	PREFABRICATE(D)
PREFIN	PREFINISHED
PRF	PREFORMED
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PT WD	PRESSURE TREATED WOOD
PTD	PAPER TOWEL DISPENSER
PTR	PAPER TOWEL RECEPTOR
PVC	POLYVINYLCHLORIDE
PVMT	PAVEMENT
QTR	QUARTER
QTY	QUANTITY
R#	REVISION
R/C	ROOF-CEILING
RAD	RADIUS
RB	RUBBER BASE
RC	REMOTE CONTROL
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECEPTACLE
REF	REFRIGERATOR
REFER	REFERENCE
REINF	REINFORCE(D)
REM	REMOVE(ABLE)
REQ	REQUIRED
RES	RESILIENT
REV	REVISION
RFG	ROOFING
RGE	RANGE
RGH	ROUGH
RH	RIGHT HAND(ED)
RL	RAIL(ING)
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RR	RESTROOM
RVS	REVERSE (SIDE)
RWC	RAINWATER CONDUCTOR
RWL	RAINWATER LEADER
S	SOUTH
S#	STRUCTURAL
SAB	SOUND ATTENUATION BLANKET
SAF	SELF ADHEARED FLASHING
SB	SPLASH BLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SCWD	SOLID CORE WOOD DOOR
SD	SCHEMATIC DESIGN
SDI	STEEL DOOR INSTITUTE
SEAL	SEALANT
SGL	SINGLE
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SL	SLEEVE
SM	SHEET METAL
SOH	SIMILAR, OPPOSITE HAND
SPD	SOUND-PROOF DOOR
SPEC	SPECIFICATION(S)
SPF	SOUNDPROOF
SPKR	SPEAKER
SQ	SQUARE
SSK	SERVICE SINK
SSMR	STANDING SEAM METAL ROOF
SSTL	STAINLESS STEEL
ST	STAIN
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STN	STONE
STOR	STORAGE
STRUCT	STRUCTURE(AL)
SUSP	SUSPENDED
SV	SHEET VINYL
SVF	SHEET VINYL FLOORING
SYM	SYMMETRICAL
SYS	SYSTEM
T&G	TONGUE & GROOVE
TAN	TANGENT
TB	TOWEL BAR
TBL	TABLE
TC	TERRA COTTA
TELE	TELEPHONE
TEMP	TEMPORARY
TERM	TERMINAL
TERR	TERRAZZO
TH	THRESHOLD
THK	THICK(NESS)
TLT	TOILET
TMPT	TEMPERATURE
TO	TOP OF
TOL	TOLERANCE
TOPO	TOPOGRAPHY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOILET PAPER
TPD	TOILET PAPER DISPENSER
TR	TRANSOM
TRANS	TRANSVERSE
TRD	TREAD
TSTAT	THERMOSTAT
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS' LABORATORIES
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UTL	UTILITY
V	VOLT
VAB	VAPOR BARRIER
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VG	VERTICAL GRAIN
VIF	VERIFY IN FIELD
VNR	VENEER
VOL	VOLUME
VR	VAPOR RETARDER
VS	VENT STACK
VT	VINYL TILE
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
W/C	WHEEL CHAIR
W/D	WASHER/DRYER
W/O	WITHOUT
WB	WOOD BASE
WC	WASTE CLOSET
WD	WOOD
WH	WATER HEATER
WHT	WHITE
WI	WROUGHT IRON
WID	WIDTH
WIN	WINDOW
WM	WIRE MESH
WP	WEATHERPROOF
WPF	WATERPROOF
WPG	WATERPROOFING
WPT	WORKING POINT
WR	WASTE RECEPTACLE
WRB	WEATHER RESISTIVE BARRIER
WS	WATER STOP
WSCT	WAINSCOT
WT	WEIGHT
WTW	WALL-TO-WALL
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
XFMR	TRANSFORMER
YD	YARD

A21 ABBREVIATIONS



Q05 LEGEND - STANDARD MATERIALS

NOT TO SCALE



A10 LEGEND - STANDARD SYMBOLS

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Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

GREGORY SCOTT CAMPBELL REGISTERED ARCHITECT AGRICULTURE ERA No. 101040 STATE OF TENNESSEE 2024-04-01

PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

NO.	ISSUED BY	DATE

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SHEET DESCRIPTION

ARCH LEGENDS & ABBREVIATIONS

G199

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

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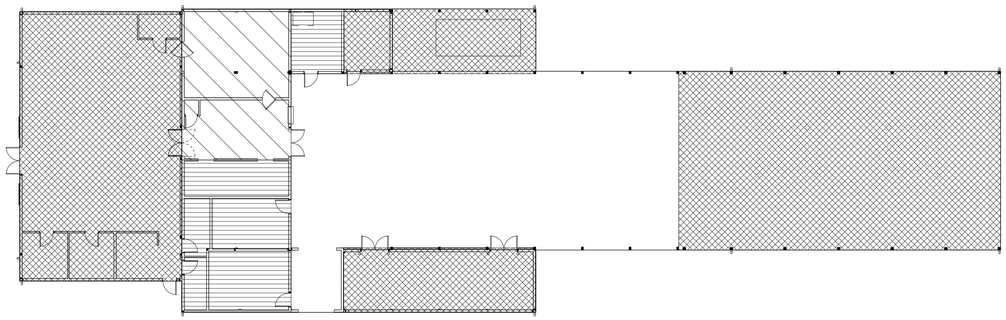


LEVELS OF ALTERATION

- 01 - EXISTING - RENNOVATION
- 02 - EXISTING - ALTERATION
- 03 - NEW CONSTRUCTION - ADDITION

Q21 EXIST. BLDG. + ADDITION PLAN

1/16" = 1'-0" LEVEL OF ALTERATION

GENERAL NOTES

LIFE SAFETY

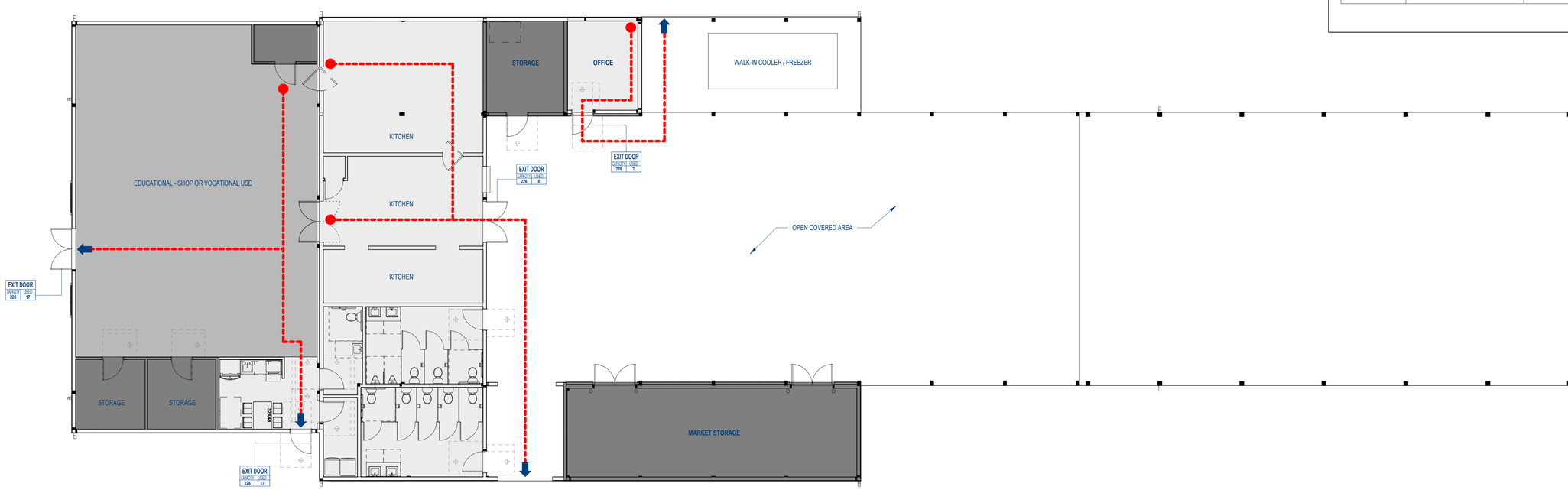
LIFE SAFETY GRAPHIC LEGEND

NOT TO SCALE IBC 2018

LIFE SAFETY GRAPHIC LEGEND	
300'	MAXIMUM EXIT / EXIT ACCESS TRAVEL DISTANCE
	EXIT / EXIT ACCESS TRAVEL DISTANCE SEGMENT START / STOP
FEC	SEMI-RECESSED / FLUSH WALL MOUNTED FIRE EXTINGUISHER CABINET
FE	WALL HOOK MOUNTED FIRE EXTINGUISHER
	EXIT SIGNAGE & EMERGENCY LIGHTING (SEE ELECTRICAL DRAWINGS)
EXIT NAME CAPACITY / USER ### ## COMPONENT WIDTH (in) LIMITING FACTOR (0.x)	EXIT / EXIT ACCESS COMPONENT & TAG 36" (34" CLEAR) EXIT / EXIT ACCESS DOOR = 226 OCCUPANTS MAX (34".15) PER IBC §1005.3.2 42" (36" CLEAR BETWEEN HANDRAILS) INTERIOR EXIT STAIR = 180 OCCUPANTS MAX. (36".2) PER IBC §1005.3.1 54" (48" CLEAR BETWEEN HANDRAILS) INT. EXIT STAIR = 240 OCCUPANTS MAX (48".2) PER IBC §1005.3.1
	ACCESSIBLE CLEAR FLOOR SPACE
AoR	30" x 48" ACCESSIBLE AREA OF REFUGE (A.O.R.) (IBC §1009.6)
	TWO-WAY COMMUNICATIONS SYSTEM AT A.O.R. (IBC §1009.6.5)

INTERIOR WALL FIRE RATINGS LEGEND

WALL TYPE	GRAPHIC LEGEND	U.L. DESIGN NUMBER
NON-RATED	AS NOTED ON PLANS / SECTIONS	REFER TO SHEET A000 - WALL TYPES FOR ADDITIONAL INFORMATION
SMOKE PARTITION		
SMOKE BARRIER		
1-HR FIRE RATING		
2-HR FIRE RATING		
3-HR FIRE RATING		
4-HR FIRE RATING		



OCCUPANCY TYPES

- 01 - KITCHEN
- 02 - EDUCATION
- 03 - STORAGE

A21 FLOOR PLAN - COMPLETED

1/8" = 1'-0" LIFE SAFETY PLAN

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ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
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115 DURHAM DR, MAYNARDVILLE, TN 37807

NO.	ISSUED BY	DATE

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SHEET DESCRIPTION

FIRST FLOOR LIFE SAFETY PLAN

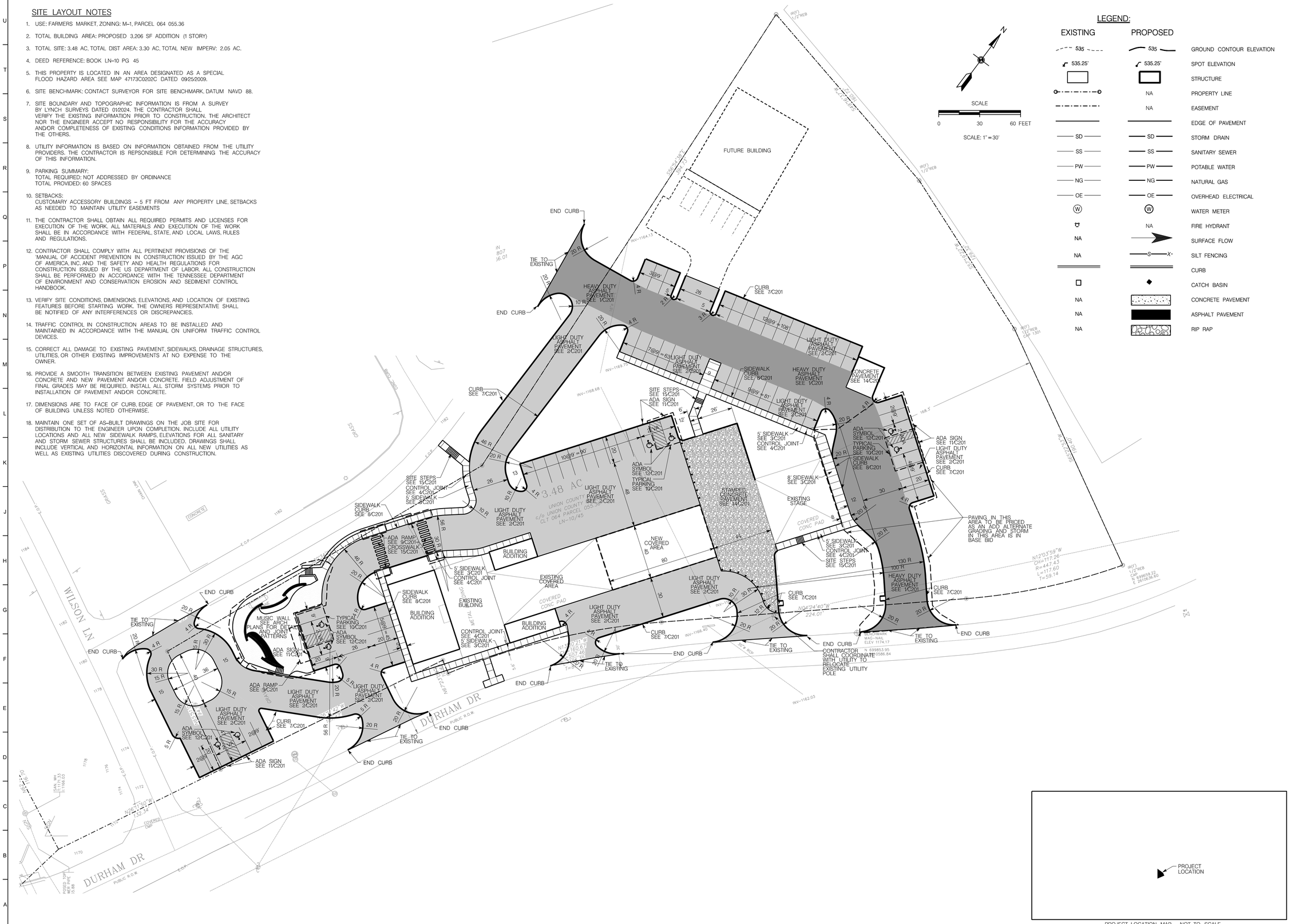
LS101

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

4/4/2024 11:09:18 AM

SITE LAYOUT NOTES

1. USE: FARMERS MARKET, ZONING: M–1, PARCEL 064 055.36
2. TOTAL BUILDING AREA: PROPOSED 3,206 SF ADDITION (1 STORY)
3. TOTAL SITE: 3.48 AC, TOTAL DIST AREA: 3.30 AC, TOTAL NEW IMPERV: 2.05 AC.
4. DEED REFERENCE: BOOK LN–10 PG 45
5. THIS PROPERTY IS LOCATED IN AN AREA DESIGNATED AS A SPECIAL FLOOD HAZARD AREA SEE MAP 47173C0202C DATED 09/25/2009.
6. SITE BENCHMARK: CONTACT SURVEYOR FOR SITE BENCHMARK. DATUM NAVD 88.
7. SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS FROM A SURVEY BY LYNCH SURVEYS DATED 01/2024. THE CONTRACTOR SHALL VERIFY THE EXISTING INFORMATION PRIOR TO CONSTRUCTION. THE ARCHITECT NOR THE ENGINEER ACCEPT NO RESPONSIBILITY FOR THE ACCURACY AND/OR COMPLETENESS OF EXISTING CONDITIONS INFORMATION PROVIDED BY THE OTHERS.
8. UTILITY INFORMATION IS BASED ON INFORMATION OBTAINED FROM THE UTILITY PROVIDERS. THE CONTRACTOR IS REPSONSIBLE FOR DETERMINING THE ACCURACY OF THIS INFORMATION.
9. PARKING SUMMARY:
   TOTAL REQUIRED: NOT ADDRESSED BY ORDINANCE
   TOTAL PROVIDED: 60 SPACES
10. SETBACKS:
    CUSTOMARY ACCESSORY BUILDINGS – 5 FT FROM ANY PROPERTY LINE, SETBACKS AS NEEDED TO MAINTAIN UTILITY EASEMENTS
11. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES FOR EXECUTION OF THE WORK. ALL MATERIALS AND EXECUTION OF THE WORK SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS.
12. CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE 'MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION' ISSUED BY THE AGC OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION ISSUED BY THE US DEPARTMENT OF LABOR. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION EROSION AND SEDIMENT CONTROL HANDBOOK.
13. VERIFY SITE CONDITIONS, DIMENSIONS, ELEVATIONS, AND LOCATION OF EXISTING FEATURES BEFORE STARTING WORK. THE OWNERS REPRESENTATIVE SHALL BE NOTIFIED OF ANY INTERFERENCES OR DISCREPANCIES.
14. TRAFFIC CONTROL IN CONSTRUCTION AREAS TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
15. CORRECT ALL DAMAGE TO EXISTING PAVEMENT, SIDEWALKS, DRAINAGE STRUCTURES, UTILITIES, OR OTHER EXISTING IMPROVEMENTS AT NO EXPENSE TO THE OWNER.
16. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND/OR CONCRETE AND NEW PAVEMENT AND/OR CONCRETE. FIELD ADJUSTMENT OF FINAL GRADES MAY BE REQUIRED. INSTALL ALL STORM SYSTEMS PRIOR TO INSTALLATION OF PAVEMENT AND/OR CONCRETE.
17. DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR TO THE FACE OF BUILDING UNLESS NOTED OTHERWISE.
18. MAINTAIN ONE SET OF AS–BUILT DRAWINGS ON THE JOB SITE FOR DISTRIBUTION TO THE ENGINEER UPON COMPLETION. INCLUDE ALL UTILITY LOCATIONS AND ALL NEW SIDEWALK RAMPS, ELEVATIONS FOR ALL SANITARY AND STORM SEWER STRUCTURES SHALL BE INCLUDED. DRAWINGS SHALL INCLUDE VERTICAL AND HORIZONTAL INFORMATION ON ALL NEW UTILITIES AS WELL AS EXISTING UTILITIES DISCOVERED DURING CONSTRUCTION.



LEGEND:

EXISTING	PROPOSED	
535	535	GROUND CONTOUR ELEVATION
535.25'	535.25'	SPOT ELEVATION
		STRUCTURE
	NA	PROPERTY LINE
	NA	EASEMENT
		EDGE OF PAVEMENT
SD	SD	STORM DRAIN
SS	SS	SANITARY SEWER
PW	PW	POTABLE WATER
NG	NG	NATURAL GAS
OE	OE	OVERHEAD ELECTRICAL
W	W	WATER METER
	NA	FIRE HYDRANT
NA		SURFACE FLOW
NA	S X	SILT FENCING
		CURB
		CATCH BASIN
NA		CONCRETE PAVEMENT
NA		ASPHALT PAVEMENT
NA		RIP RAP

PROJECT LOCATION

PROJECT LOCATION MAP – NOT TO SCALE

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ARCHITECTS + INTERIORS + PLANNING
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ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

WILLIAM N. ROBINSON
REGISTERED ENGINEER
No. 116556
STATE OF TENNESSEE
1/12/2024

CONCEPT SITE PLAN

HERITAGE PARK - UNION COUNTY

115 DURHAM DRIVE, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION

SITE LAYOUT PLAN

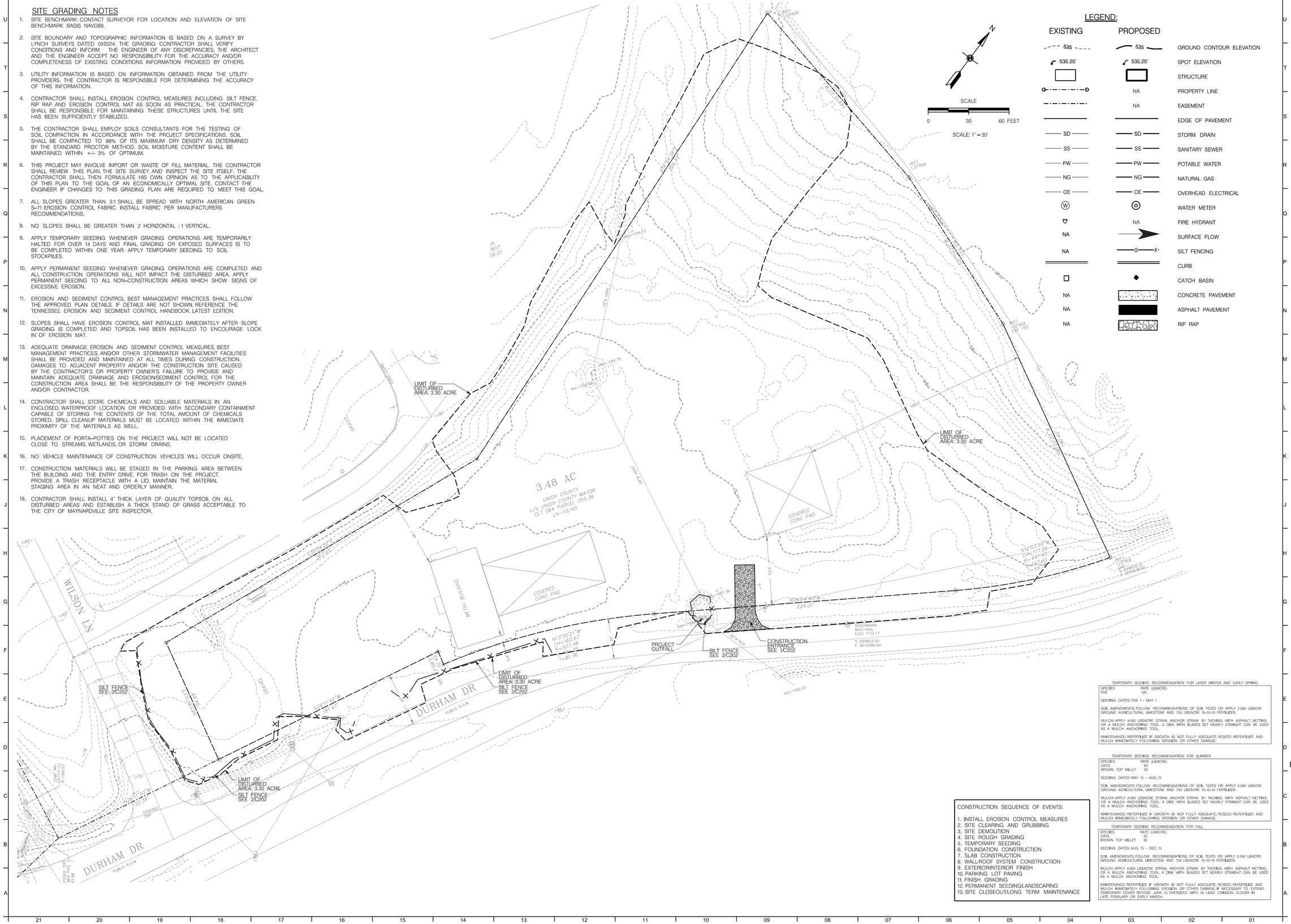
C101

PROJECT DATE	PROJECT NUMBER
2024-03-15	23071

1/12/2024 3:32:00 PM

SITE GRADING NOTES

1. SITE BENCHMARK: CONTACT SURVEYOR FOR LOCATION AND ELEVATION OF SITE BENCHMARK BASIS NAVD88.
2. SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY BY LYNCH SURVEYS DATED 01/2024. THE GRADING CONTRACTOR SHALL VERIFY CONDITIONS AND INFORM THE ENGINEER OF ANY DISCREPANCIES. THE ARCHITECT AND THE ENGINEER ACCEPT NO RESPONSIBILITY FOR THE ACCURACY AND/OR COMPLETENESS OF EXISTING CONDITIONS INFORMATION PROVIDED BY OTHERS.
3. UTILITY INFORMATION IS BASED ON INFORMATION OBTAINED FROM THE UTILITY PROVIDERS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACCURACY OF THIS INFORMATION.
4. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES INCLUDING SILT FENCE, RIP RAP, AND EROSION CONTROL MAT AS SOON AS PRACTICAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE STRUCTURES UNTIL THE SITE HAS BEEN SUFFICIENTLY STABILIZED.
5. THE CONTRACTOR SHALL EMPLOY SOILS CONSULTANTS FOR THE TESTING OF SOIL COMPACTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. SOIL SHALL BE COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD. SOIL MOISTURE CONTENT SHALL BE MAINTAINED WITHIN +/– 3% OF OPTIMUM.
6. THIS PROJECT MAY INVOLVE IMPORT OR WASTE OF FILL MATERIAL. THE CONTRACTOR SHALL REVIEW THIS PLAN, THE SITE SURVEY, AND INSPECT THE SITE ITSELF. THE CONTRACTOR SHALL THEN FORMULATE HIS OWN OPINION AS TO THE APPLICABILITY OF THIS PLAN TO THE GOAL OF AN ECONOMICALLY OPTIMAL SITE. CONTACT THE ENGINEER IF CHANGES TO THIS GRADING PLAN ARE REQUIRED TO MEET THIS GOAL.
7. ALL SLOPES GREATER THAN 3:1 SHALL BE SPREAD WITH NORTH AMERICAN GREEN S–71 EROSION CONTROL FABRIC. INSTALL FABRIC PER MANUFACTURERS RECOMMENDATIONS.
8. NO SLOPES SHALL BE GREATER THAN 2 HORIZONTAL : 1 VERTICAL.
9. APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OR EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
10. APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT SEEDING TO ALL NON–CONSTRUCTION AREAS WHICH SHOW SIGNS OF EXCESSIVE EROSION.
11. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL FOLLOW THE APPROVED PLAN DETAILS. IF DETAILS ARE NOT SHOWN, REFERENCE THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
12. SLOPES SHALL HAVE EROSION CONTROL MAT INSTALLED IMMEDIATELY AFTER SLOPE GRADING IS COMPLETED AND TOPSOIL HAS BEEN INSTALLED TO ENCOURAGE 'LOCK IN' OF EROSION MAT.
13. ADEQUATE DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES, BEST MANAGEMENT PRACTICES, AND/OR OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S OR PROPERTY OWNER'S FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE AND EROSION-SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND/OR CONTRACTOR.
14. CONTRACTOR SHALL STORE CHEMICALS AND SOLUABLE MATERIALS IN AN ENCLOSED, WATERPROOF LOCATION OR PROVIDED WITH SECONDARY CONTAINMENT CAPABLE OF STORING THE CONTENTS OF THE TOTAL AMOUNT OF CHEMICALS STORED. SPILL CLEANUP MATERIALS MUST BE LOCATED WITHIN THE IMMEDIATE PROXIMITY OF THE MATERIALS AS WELL.
15. PLACEMENT OF PORTA–POTTIES ON THE PROJECT WILL NOT BE LOCATED CLOSE TO STREAMS, WETLANDS, OR STORM DRAINS.
16. NO VEHICLE MAINTENANCE OF CONSTRUCTION VEHICLES WILL OCCUR ONSITE.
17. CONSTRUCTION MATERIALS WILL BE STAGED IN THE PARKING AREA BETWEEN THE BUILDING AND THE ENTRY DRIVE. FOR TRASH ON THE PROJECT, PROVIDE A TRASH RECEPTACLE WITH A LID. MAINTAIN THE MATERIAL STAGING AREA IN AN NEAT AND ORDERLY MANNER.
18. CONTRACTOR SHALL INSTALL 4" THICK LAYER OF QUALITY TOPSOIL ON ALL DISTURBED AREAS AND ESTABLISH A THICK STAND OF GRASS ACCEPTABLE TO THE CITY OF MAYNARDVILLE SITE INSPECTOR.



LEGEND:

EXISTING	PROPOSED	
535	535	GROUND CONTOUR ELEVATION
535.25'	535.25'	SPOT ELEVATION
		STRUCTURE
	NA	PROPERTY LINE
	NA	EASEMENT
		EDGE OF PAVEMENT
SD	SD	STORM DRAIN
SS	SS	SANITARY SEWER
PW	PW	POTABLE WATER
NG	NG	NATURAL GAS
OE	OE	OVERHEAD ELECTRICAL
W	W	WATER METER
	NA	FIRE HYDRANT
NA		SURFACE FLOW
NA	S X	SILT FENCING
		CURB
		CATCH BASIN
NA		CONCRETE PAVEMENT
NA		ASPHALT PAVEMENT
NA		RIP RAP

SCALE
0 30 60 FEET
SCALE: 1" = 30'

TEMPORARY SEEDING RECOMMENDATION FOR LATER WINTER AND EARLY SPRING

SPECIES	RATE (LBS/ACRE)
RYE	120

SEEDING DATES: FEB 1 – MAY 1

SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LBS/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LBS/ACRE 10–10–10 FERTILIZER.

MULCH: APPLY 4,000 LBS/ACRE STRAW, ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL, A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE, RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

TEMPORARY SEEDING RECOMMENDATION FOR SUMMER

SPECIES	RATE (LBS/ACRE)
OATS	60
BROWN TOP MILLET	30

SEEDING DATES: MAY 15 – AUG. 15

SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LBS/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LBS/ACRE 10–10–10 FERTILIZER.

MULCH: APPLY 4,000 LBS/ACRE STRAW, ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL, A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE, RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

TEMPORARY SEEDING RECOMMENDATION FOR FALL

SPECIES	RATE (LBS/ACRE)
OATS	30
BROWN TOP MILLET	30

SEEDING DATES: AUG. 15 – DEC. 15

SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LBS/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LBS/ACRE 10–10–10 FERTILIZER.

MULCH: APPLY 4,000 LBS/ACRE STRAW, ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL, A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE, RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE. IF NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LBS/AC CRIMSON CLOVER IN LATE FEBRUARY OR EARLY MARCH.

CONSTRUCTION SEQUENCE OF EVENTS:

1. INSTALL EROSION CONTROL MEASURES
2. SITE CLEARING AND GRUBBING
3. SITE DEMOLITION
4. SITE ROUGH GRADING
5. TEMPORARY SEEDING
6. FOUNDATION CONSTRUCTION
7. SLAB CONSTRUCTION
8. WALL/ROOF SYSTEM CONSTRUCTION
9. EXTERIOR/INTERIOR FINISH
10. PARKING LOT PAVING
11. FINISH GRADING
12. PERMANENT SEEDING/LANDSCAPING
13. SITE CLOSEOUT/LONG TERM MAINTENANCE

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WILLIAM N. ROBINSON
REGISTERED ENGINEER
No. 115556
STATE OF TENNESSEE
5/6/2024

CONCEPT SITE PLAN
HERITAGE PARK - UNION COUNTY
115 DURHAM DRIVE, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION
EROSION CONTROL - 1

C102

PROJECT DATE	PROJECT NUMBER
2024-03-15	23071

1/12/2024 3:32:00 PM

SITE GRADING NOTES

1. SITE BENCHMARK: CONTACT SURVEYOR FOR LOCATION AND ELEVATION OF SITE BENCHMARK BASIS NAVD88.
2. SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY BY LYNCH SURVEYS DATED 01/2024. THE GRADING CONTRACTOR SHALL VERIFY CONDITIONS AND INFORM THE ENGINEER OF ANY DISCREPANCIES. THE ARCHITECT AND THE ENGINEER ACCEPT NO RESPONSIBILITY FOR THE ACCURACY AND/OR COMPLETENESS OF EXISTING CONDITIONS INFORMATION PROVIDED BY OTHERS.
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5. THE CONTRACTOR SHALL EMPLOY SOILS CONSULTANTS FOR THE TESTING OF SOIL COMPACTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. SOIL SHALL BE COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD. SOIL MOISTURE CONTENT SHALL BE MAINTAINED WITHIN +/– 3% OF OPTIMUM.
6. THIS PROJECT MAY INVOLVE IMPORT OR WASTE OF FILL MATERIAL. THE CONTRACTOR SHALL REVIEW THIS PLAN, THE SITE SURVEY, AND INSPECT THE SITE ITSELF. THE CONTRACTOR SHALL THEN FORMULATE HIS OWN OPINION AS TO THE APPLICABILITY OF THIS PLAN TO THE GOAL OF AN ECONOMICALLY OPTIMAL SITE. CONTACT THE ENGINEER IF CHANGES TO THIS GRADING PLAN ARE REQUIRED TO MEET THIS GOAL.
7. ALL SLOPES GREATER THAN 3:1 SHALL BE SPREAD WITH NORTH AMERICAN GREEN S–71 EROSION CONTROL FABRIC. INSTALL FABRIC PER MANUFACTURERS RECOMMENDATIONS.
8. NO SLOPES SHALL BE GREATER THAN 2 HORIZONTAL : 1 VERTICAL.
9. APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OR EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
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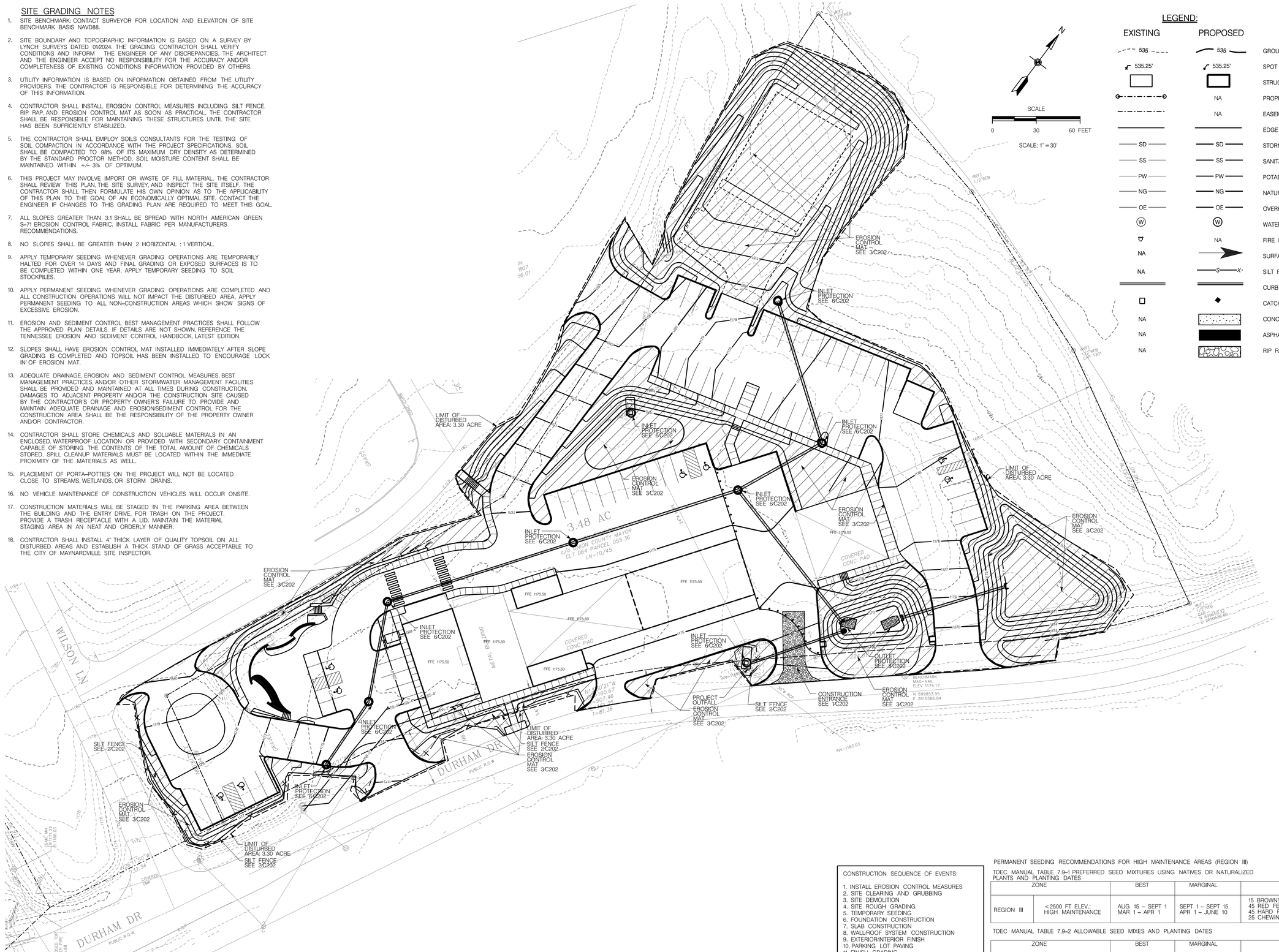

LEGEND:

EXISTING	PROPOSED	
535	535	GROUND CONTOUR ELEVATION
535.25'	535.25'	SPOT ELEVATION
		STRUCTURE
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		CURB
		CATCH BASIN
NA		CONCRETE PAVEMENT
NA		ASPHALT PAVEMENT
NA		RIP RAP

CONSTRUCTION SEQUENCE OF EVENTS:

1. INSTALL EROSION CONTROL MEASURES
2. SITE CLEARING AND GRUBBING
3. SITE DEMOLITION
4. SITE ROUGH GRADING
5. TEMPORARY SEEDING
6. FOUNDATION CONSTRUCTION
7. SLAB CONSTRUCTION
8. WALL/ROOF SYSTEM CONSTRUCTION
9. EXTERIOR/INTERIOR FINISH
10. PARKING LOT PAVING
11. FINISH GRADING
12. PERMANENT SEEDING/LANDSCAPING
13. SITE CLOSEOUT/LONG TERM MAINTENANCE

PERMANENT SEEDING RECOMMENDATIONS FOR HIGH MAINTENANCE AREAS (REGION III)

TDEC MANUAL TABLE 7.9–1 PREFERRED SEED MIXTURES USING NATIVES OR NATURALIZED PLANTS AND PLANTING DATES

ZONE		BEST	MARGINAL	RATE/MIX (LB/ACRE)
REGION III	< 2500 FT ELEV.: HIGH MAINTENANCE	AUG 15 – SEPT 1 MAR 1 – APR 1	SEPT 1 – SEPT 15 APR 1 – JUNE 10	15 BROWNTOP MILLET (NURSE CROP) 45 RED FESCUE 45 HARD FESCUE 25 CHEWING FESCUE

TDEC MANUAL TABLE 7.9–2 ALLOWABLE SEED MIXES AND PLANTING DATES

ZONE		BEST	MARGINAL	RATE/MIX (LB/ACRE)
REGION III	< 2500 FT ELEV.: HIGH MAINTENANCE	AUG 15 – SEPT 1 MAR 1 – APR 1	JULY 25 – AUG 15 SEPT 1 – SEPT 15 APR 1 – MAY 10	200 KY 31 FESCUE

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WILLIAM N. ROBINSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCIAL
STATE OF TENNESSEE
01-2024

CONCEPT SITE PLAN

HERITAGE PARK - UNION COUNTY

115 DURHAM DRIVE, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION

EROSION CONTROL - 2

C103

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

1/12/2024 3:32:00 PM

SITE GRADING NOTES

1. SITE BENCHMARK: CONTACT SURVEYOR FOR LOCATION AND ELEVATION OF SITE BENCHMARK BASIS NAVD88.
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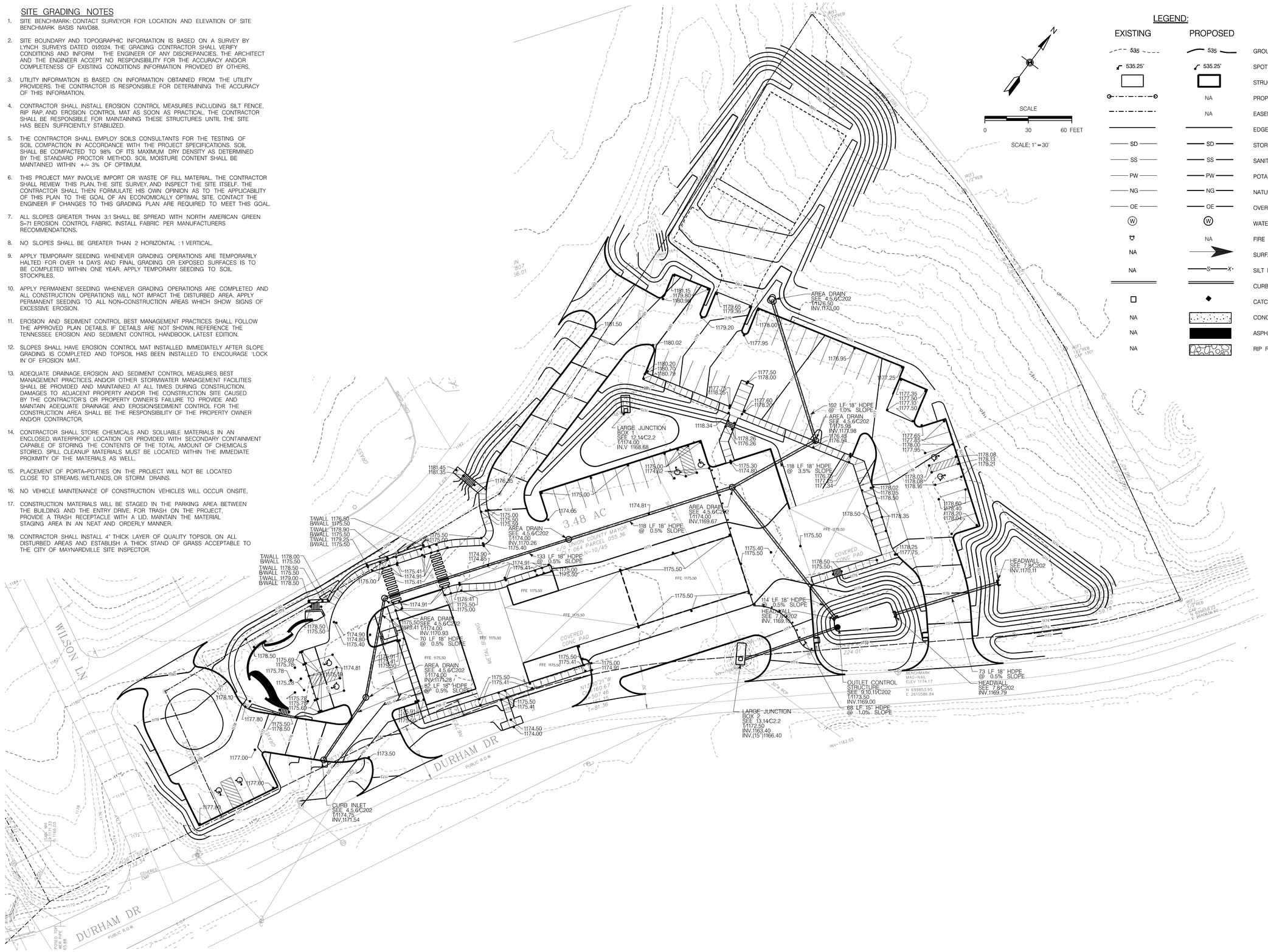
4. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES INCLUDING SILT FENCE, RIP RAP, AND EROSION CONTROL MAT AS SOON AS PRACTICAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE STRUCTURES UNTIL THE SITE HAS BEEN SUFFICIENTLY STABILIZED.
5. THE CONTRACTOR SHALL EMPLOY SOILS CONSULTANTS FOR THE TESTING OF SOIL COMPACTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. SOIL SHALL BE COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD. SOIL MOISTURE CONTENT SHALL BE MAINTAINED WITHIN +/– 3% OF OPTIMUM.
6. THIS PROJECT MAY INVOLVE IMPORT OR WASTE OF FILL MATERIAL. THE CONTRACTOR SHALL REVIEW THIS PLAN, THE SITE SURVEY, AND INSPECT THE SITE ITSELF. THE CONTRACTOR SHALL THEN FORMULATE HIS OWN OPINION AS TO THE APPLICABILITY OF THIS PLAN TO THE GOAL OF AN ECONOMICALLY OPTIMAL SITE. CONTACT THE ENGINEER IF CHANGES TO THIS GRADING PLAN ARE REQUIRED TO MEET THIS GOAL.
7. ALL SLOPES GREATER THAN 3:1 SHALL BE SPREAD WITH NORTH AMERICAN GREEN S–71 EROSION CONTROL FABRIC. INSTALL FABRIC PER MANUFACTURERS RECOMMENDATIONS.
8. NO SLOPES SHALL BE GREATER THAN 2 HORIZONTAL : 1 VERTICAL.
9. APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OR EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
10. APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT SEEDING TO ALL NON–CONSTRUCTION AREAS WHICH SHOW SIGNS OF EXCESSIVE EROSION.
11. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL FOLLOW THE APPROVED PLAN DETAILS. IF DETAILS ARE NOT SHOWN, REFERENCE THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
12. SLOPES SHALL HAVE EROSION CONTROL MAT INSTALLED IMMEDIATELY AFTER SLOPE GRADING IS COMPLETED AND TOPSOIL HAS BEEN INSTALLED TO ENCOURAGE 'LOCK IN' OF EROSION MAT.
13. ADEQUATE DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES, BEST MANAGEMENT PRACTICES, AND/OR OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S OR PROPERTY OWNER'S FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE AND EROSION-SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND/OR CONTRACTOR.
14. CONTRACTOR SHALL STORE CHEMICALS AND SOLUABLE MATERIALS IN AN ENCLOSED, WATERPROOF LOCATION OR PROVIDED WITH SECONDARY CONTAINMENT CAPABLE OF STORING THE CONTENTS OF THE TOTAL AMOUNT OF CHEMICALS STORED. SPILL CLEANUP MATERIALS MUST BE LOCATED WITHIN THE IMMEDIATE PROXIMITY OF THE MATERIALS AS WELL.
15. PLACEMENT OF PORTA–POTTIES ON THE PROJECT WILL NOT BE LOCATED CLOSE TO STREAMS, WETLANDS, OR STORM DRAINS.
16. NO VEHICLE MAINTENANCE OF CONSTRUCTION VEHICLES WILL OCCUR ONSITE.
17. CONSTRUCTION MATERIALS WILL BE STAGED IN THE PARKING AREA BETWEEN THE BUILDING AND THE ENTRY DRIVE. FOR TRASH ON THE PROJECT, PROVIDE A TRASH RECEPTACLE WITH A LID. MAINTAIN THE MATERIAL STAGING AREA IN AN NEAT AND ORDERLY MANNER.
18. CONTRACTOR SHALL INSTALL 4" THICK LAYER OF QUALITY TOPSOIL ON ALL DISTURBED AREAS AND ESTABLISH A THICK STAND OF GRASS ACCEPTABLE TO THE CITY OF MAYNARDVILLE SITE INSPECTOR.



LEGEND:

EXISTING	PROPOSED	
535	535	GROUND CONTOUR ELEVATION
535.25'	535.25'	SPOT ELEVATION
		STRUCTURE
	NA	PROPERTY LINE
	NA	EASEMENT
		EDGE OF PAVEMENT
SD	SD	STORM DRAIN
SS	SS	SANITARY SEWER
PW	PW	POTABLE WATER
NG	NG	NATURAL GAS
OE	OE	OVERHEAD ELECTRICAL
W	W	WATER METER
	NA	FIRE HYDRANT
NA		SURFACE FLOW
NA	S X	SILT FENCING
		CURB
		CATCH BASIN
NA		CONCRETE PAVEMENT
NA		ASPHALT PAVEMENT
NA		RIP RAP

SCALE

0 30 60 FEET

SCALE: 1" = 30'

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WILLIAM N. ROBINSON
REGISTERED ENGINEER
No. 115 56
STATE OF TENNESSEE
2024

CONCEPT SITE PLAN

HERITAGE PARK - UNION COUNTY

115 DURHAM DRIVE, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION

SITE GRADING PLAN

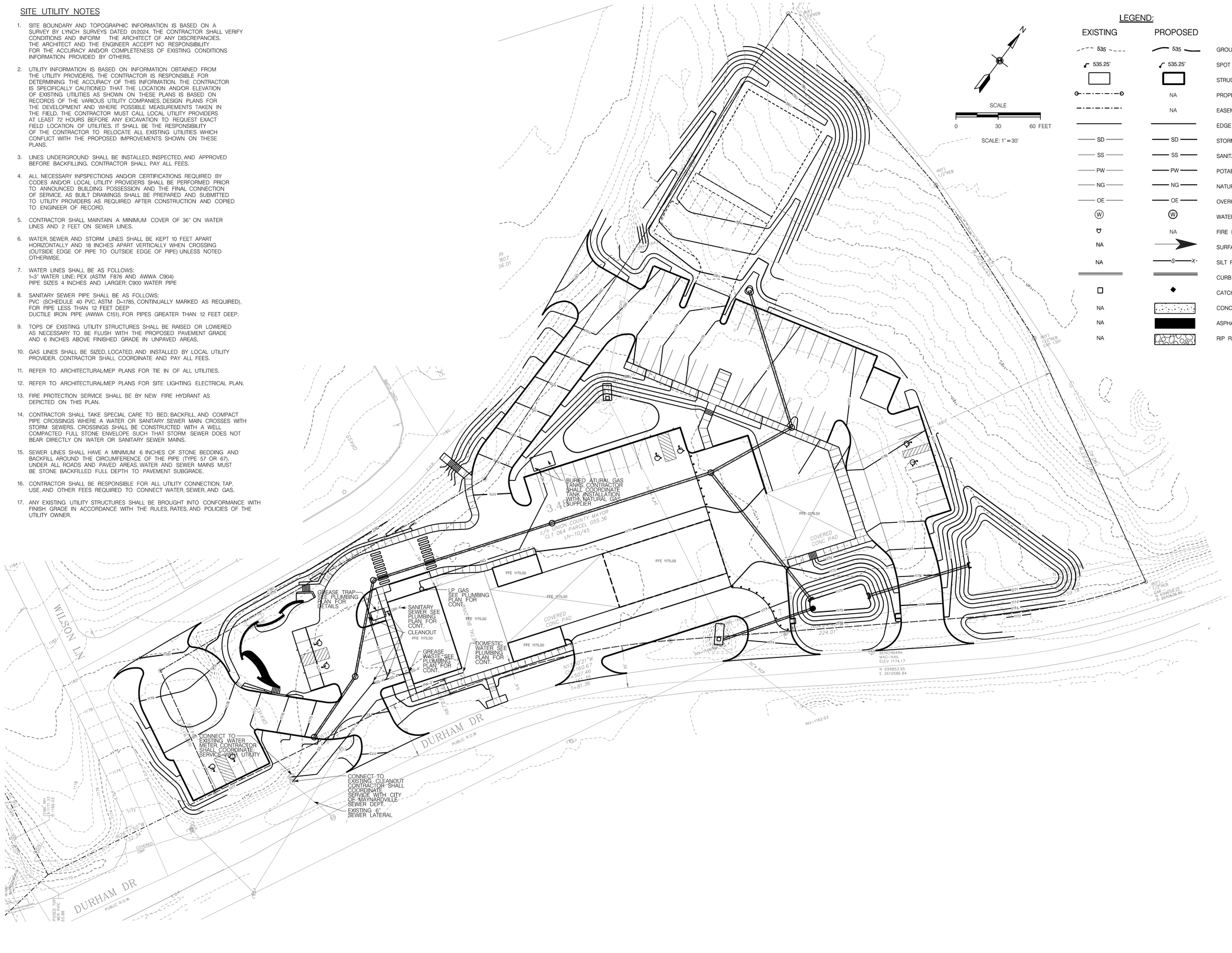
C104

PROJECT DATE	PROJECT NUMBER
2024-03-15	23071

1/12/2024 3:32:00 PM

SITE UTILITY NOTES

1. SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY BY LYNCH SURVEYS DATED 01/2024. THE CONTRACTOR SHALL VERIFY CONDITIONS AND INFORM THE ARCHITECT OF ANY DISCREPANCIES. THE ARCHITECT AND THE ENGINEER ACCEPT NO RESPONSIBILITY FOR THE ACCURACY AND/OR COMPLETENESS OF EXISTING CONDITIONS INFORMATION PROVIDED BY OTHERS.
2. UTILITY INFORMATION IS BASED ON INFORMATION OBTAINED FROM THE UTILITY PROVIDERS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACCURACY OF THIS INFORMATION. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, DESIGN PLANS FOR THE DEVELOPMENT AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE CONTRACTOR MUST CALL LOCAL UTILITY PROVIDERS AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
3. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED, AND APPROVED BEFORE BACKFILLING. CONTRACTOR SHALL PAY ALL FEES.
4. ALL NECESSARY INPSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR LOCAL UTILITY PROVIDERS SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE. AS BUILT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO UTILITY PROVIDERS AS REQUIRED AFTER CONSTRUCTION AND COPIED TO ENGINEER OF RECORD.
5. CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 36" ON WATER LINES AND 2 FEET ON SEWER LINES.
6. WATER, SEWER, AND STORM LINES SHALL BE KEPT 10 FEET APART HORIZONTALLY AND 18 INCHES APART VERTICALLY WHEN CROSSING (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE) UNLESS NOTED OTHERWISE.
7. WATER LINES SHALL BE AS FOLLOWS:
   1–3" WATER LINE: PEX (ASTM F876 AND AWWA C904)
   PIPE SIZES 4 INCHES AND LARGER: C900 WATER PIPE
8. SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
   PVC (SCHEDULE 40 PVC, ASTM D–1785, CONTINUALLY MARKED AS REQUIRED), FOR PIPE LESS THAN 12 FEET DEEP
   DUCTILE IRON PIPE (AWWA C151), FOR PIPES GREATER THAN 12 FEET DEEP.
9. TOPS OF EXISTING UTILITY STRUCTURES SHALL BE RAISED OR LOWERED AS NECESSARY TO BE FLUSH WITH THE PROPOSED PAVEMENT GRADE AND 6 INCHES ABOVE FINISHED GRADE IN UNPAVED AREAS.
10. GAS LINES SHALL BE SIZED, LOCATED, AND INSTALLED BY LOCAL UTILITY PROVIDER. CONTRACTOR SHALL COORDINATE AND PAY ALL FEES.
11. REFER TO ARCHITECTURAL/MEP PLANS FOR TIE IN OF ALL UTILITIES.
12. REFER TO ARCHITECTURAL/MEP PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
13. FIRE PROTECTION SERVICE SHALL BE BY NEW FIRE HYDRANT AS DEPICTED ON THIS PLAN.
14. CONTRACTOR SHALL TAKE SPECIAL CARE TO BED, BACKFILL, AND COMPACT PIPE CROSSINGS WHERE A WATER OR SANITARY SEWER MAIN CROSSES WITH STORM SEWERS. CROSSINGS SHALL BE CONSTRUCTED WITH A WELL COMPACTED FULL STONE ENVELOPE SUCH THAT STORM SEWER DOES NOT BEAR DIRECTLY ON WATER OR SANITARY SEWER MAINS.
15. SEWER LINES SHALL HAVE A MINIMUM 6 INCHES OF STONE BEDDING AND BACKFILL AROUND THE CIRCUMFERENCE OF THE PIPE (TYPE 57 OR 67). UNDER ALL ROADS AND PAVED AREAS, WATER AND SEWER MAINS MUST BE STONE BACKFILLED FULL DEPTH TO PAVEMENT SUBGRADE.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY CONNECTION, TAP, USE, AND OTHER FEES REQUIRED TO CONNECT WATER, SEWER, AND GAS.
17. ANY EXISTING UTILITY STRUCTURES SHALL BE BROUGHT INTO CONFORMANCE WITH FINISH GRADE IN ACCORDANCE WITH THE RULES, RATES, AND POLICIES OF THE UTILITY OWNER.



LEGEND:

EXISTING	PROPOSED	
535	535	GROUND CONTOUR ELEVATION
535.25'	535.25'	SPOT ELEVATION
		STRUCTURE
	NA	PROPERTY LINE
	NA	EASEMENT
		EDGE OF PAVEMENT
SD	SD	STORM DRAIN
SS	SS	SANITARY SEWER
PW	PW	POTABLE WATER
NG	NG	NATURAL GAS
OE	OE	OVERHEAD ELECTRICAL
W	W	WATER METER
	NA	FIRE HYDRANT
NA		SURFACE FLOW
NA	S X	SILT FENCING
		CURB
		CATCH BASIN
NA		CONCRETE PAVEMENT
NA		ASPHALT PAVEMENT
NA		RIP RAP

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WILLIAM N. ROBINSON
REGISTERED ENGINEER
AGRICULTURE
No. 115 01-2024
STATE OF TENNESSEE

CONCEPT SITE PLAN

HERITAGE PARK - UNION COUNTY

115 DURHAM DRIVE, MAYNARDVILLE, TN 37807

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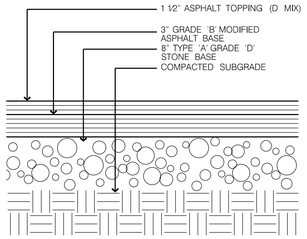
SHEET DESCRIPTION

SITE UTILITY PLAN

C105

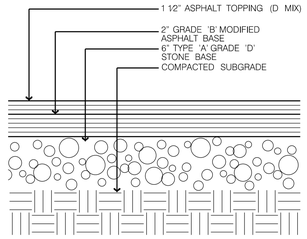
PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

1/12/2024 3:32:00 PM



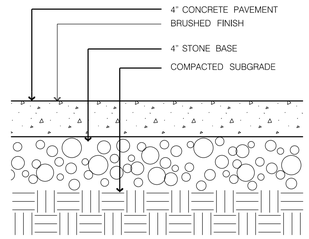
1 C201 HEAVY DUTY PAVING SECTION

NOT TO SCALE



2 C201 LIGHT DUTY PAVING SECTION

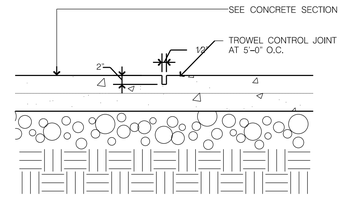
NOT TO SCALE



NOTE: ALL EXTERIOR CONCRETE SHALL BE 0.42 WATER/CEMENT RATIO OR BETTER WITH 20% MIN FLYASH CONTENT. MINIMUM 5,000 PSI COMPRESSIVE STRENGTH

3 C201 TYPICAL SIDEWALK SECTION

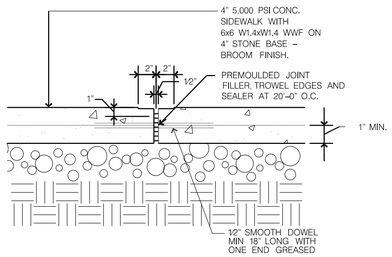
NOT TO SCALE



NOTE:
PLACE CONTROL JOINTS AT 5' O.C., APPROXIMATE
CONTROL JOINT PATTERN IS INDICATED ON THE SITE PLAN

4 C201 CONTROL JOINT DETAIL

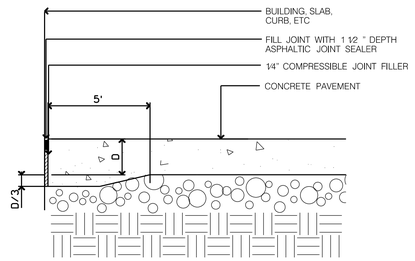
NOT TO SCALE



NOTE:
PLACE EXPANSION JOINTS AT MIN 25' O.C. OR BETWEEN DAYS POURS, WHICHEVER IS CLOSER

5 C201 EXPANSION JOINT DETAIL

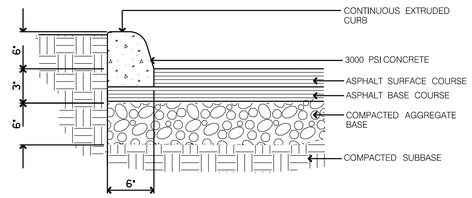
NOT TO SCALE



NOTE:
PLACE THICKENED EDGE AT ALL EDGES OF SIDEWALK, ADJACENT TO STRUCTURES, AND ADJACENT TO OTHER EXISTING CONCRETE

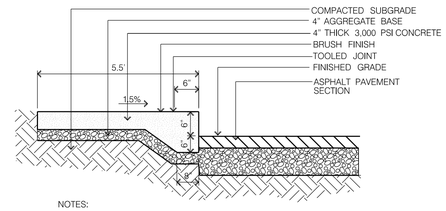
6 C201 THICKENED EDGE DETAIL

NOT TO SCALE



7 C201 TYPICAL CURB

NOT TO SCALE



NOTES:

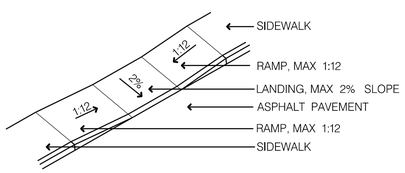
PREFORMED 1/2" EXPANSION JOINTS SHALL BE EQUALLY SPACED AT 30' MAX CENTERS, EQUALLY SPACE 1/4" CONTRACTION JOINTS AT 10' MAX CENTERS BETWEEN EXPANSION JOINTS.

EXACT CURB DIMENSIONS MAY BE ALTERED SLIGHTLY TO FIT STANDARD EXTRUDED CURB MACHINES, BUT SUCH VARIANCES MUST BE APPROVED BY THE ENGINEER.

MAX SLOPE FOR RAMPS SHALL BE 12:1 IN ACCORDANCE WITH ADA REQUIREMENTS.

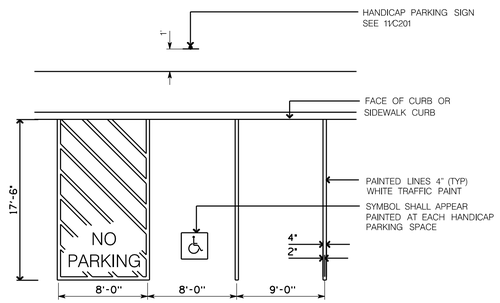
8 C201 SIDEWALK WITH INTEGRAL CURB

NOT TO SCALE



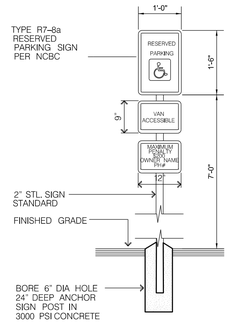
9 C201 ADA SIDE RAMP DETAIL

NOT TO SCALE



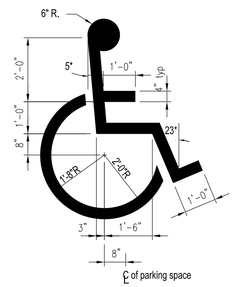
10 C201 TYPICAL PARKING SPACE DETAIL

NOT TO SCALE



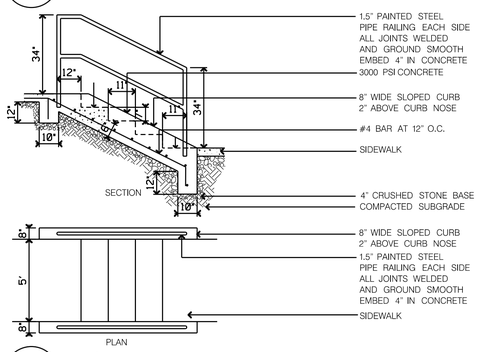
11 C201 HANDICAP SIGN

NOT TO SCALE



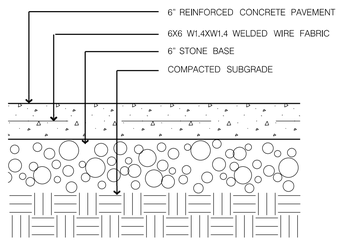
12 C201 ACCESSIBILITY SYMBOL

NOT TO SCALE



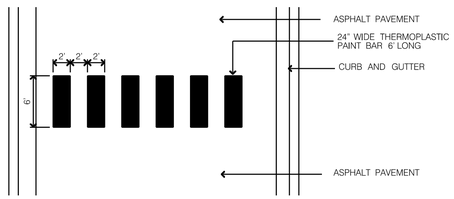
13 C201 STAIR DETAIL

NOT TO SCALE



14 C201 TYPICAL CONCRETE PAVING SECTION

NOT TO SCALE



15 C201 CROSS WALK DETAIL

NOT TO SCALE

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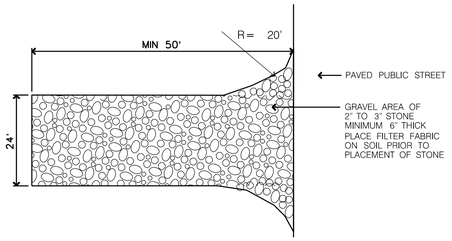
SHEET DESCRIPTION

SITE DETAILS - 1

C201

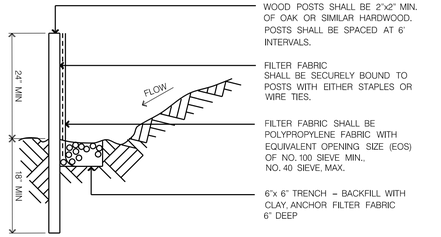
PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

1/12/2024 3:32:00 PM



1 C202 CONSTRUCTION ENTRANCE DETAIL

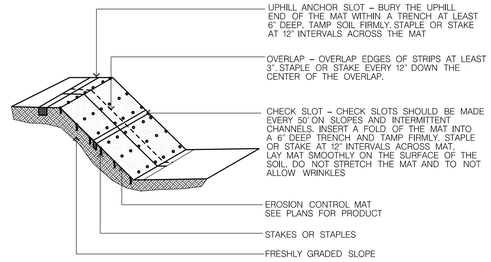
NOT TO SCALE



NOTE: FILTER FABRIC FENCE TO BE PLACED PRIOR TO START OF ROUGH GRADING

2 C202 SILT FENCE DETAIL

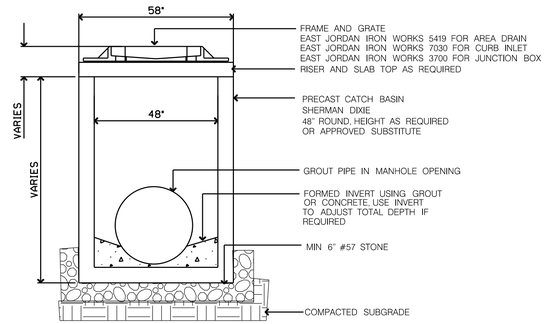
NOT TO SCALE



NOTES:
FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS. IN THE EVENT OF CONFLICT IN REQUIREMENTS, USE THE MORE RESTRICTIVE REQUIREMENT.

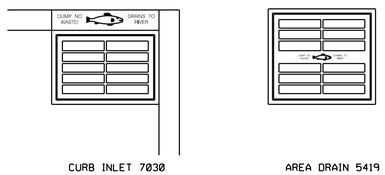
3 C202 EROSION MAT INSTALLATION

NOT TO SCALE



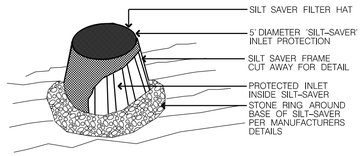
4 C202 48" ROUND CATCH BASIN DETAIL

NOT TO SCALE



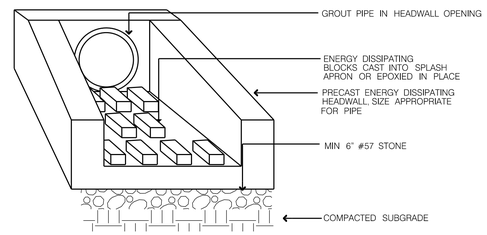
5 C202 ENVIRONMENTAL MESSAGE DETAIL

NOT TO SCALE



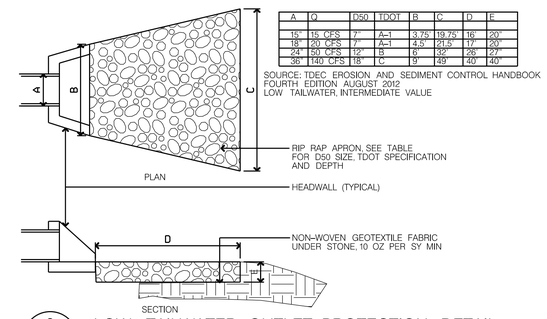
6 C202 INLET PROTECTION DETAIL

NOT TO SCALE



7 C202 ENERGY DISSIPATING HEADWALL DETAIL

NOT TO SCALE

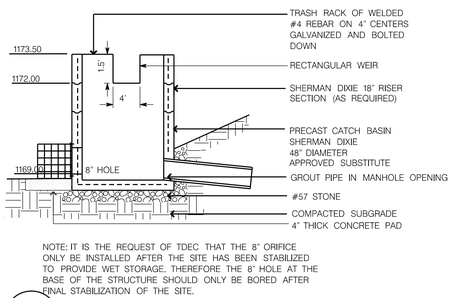


A	Q	D50	TDOT	B	C	D	E
15"	15 CFS	7"	A-1	3.75'	19.75'	16'	20'
18"	20 CFS	7"	A-1	4.5'	21.5'	17'	20'
24"	50 CFS	12"	B	6'	32'	26'	27'
36"	140 CFS	18"	C	9'	49'	40'	40'

SOURCE: TDEC EROSION AND SEDIMENT CONTROL HANDBOOK FOURTH EDITION AUGUST 2012
LOW TAILWATER, INTERMEDIATE VALUE

8 C202 LOW TAILWATER OUTLET PROTECTION DETAIL

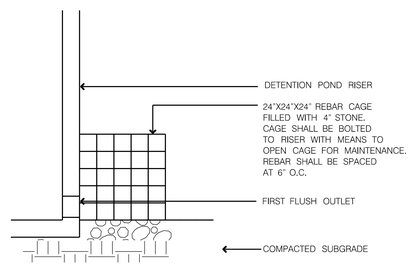
NOT TO SCALE



NOTE: IT IS THE REQUEST OF TDEC THAT THE 8" ORIFICE ONLY BE INSTALLED AFTER THE SITE HAS BEEN STABILIZED TO PROVIDE WET STORAGE, THEREFORE THE 8" HOLE AT THE BASE OF THE STRUCTURE SHOULD ONLY BE BORED AFTER FINAL STABILIZATION OF THE SITE.

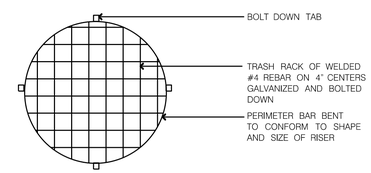
9 C202 POND RISER DETAIL

NOT TO SCALE



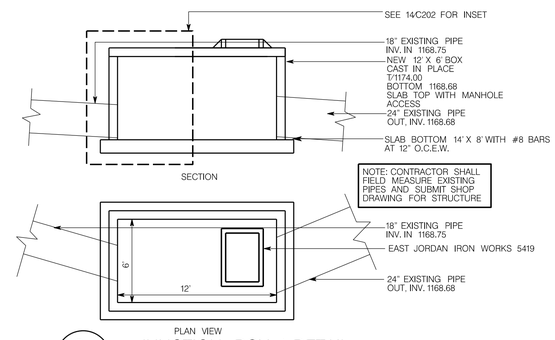
10 C202 WATER QUALITY FILTER

NOT TO SCALE



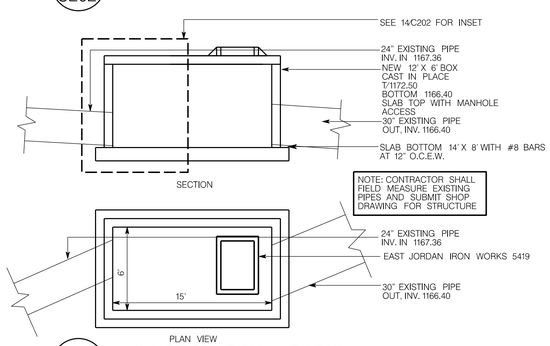
11 C202 TRASH RACK

NOT TO SCALE



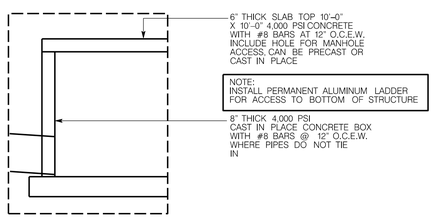
12 C202 JUNCTION BOX 1 DETAIL

NOT TO SCALE



13 C202 JUNCTION BOX 2 DETAIL

NOT TO SCALE



14 C202 INSET DRAWING

NOT TO SCALE

DIA
Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

WILLIAM N. ROBINSON
REGISTERED ENGINEER
AGRICULTURE
No. 115 01-2024
STATE OF TENNESSEE

CONCEPT SITE PLAN
HERITAGE PARK - UNION COUNTY
115 DURHAM DRIVE, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION
SITE DETAILS - 2

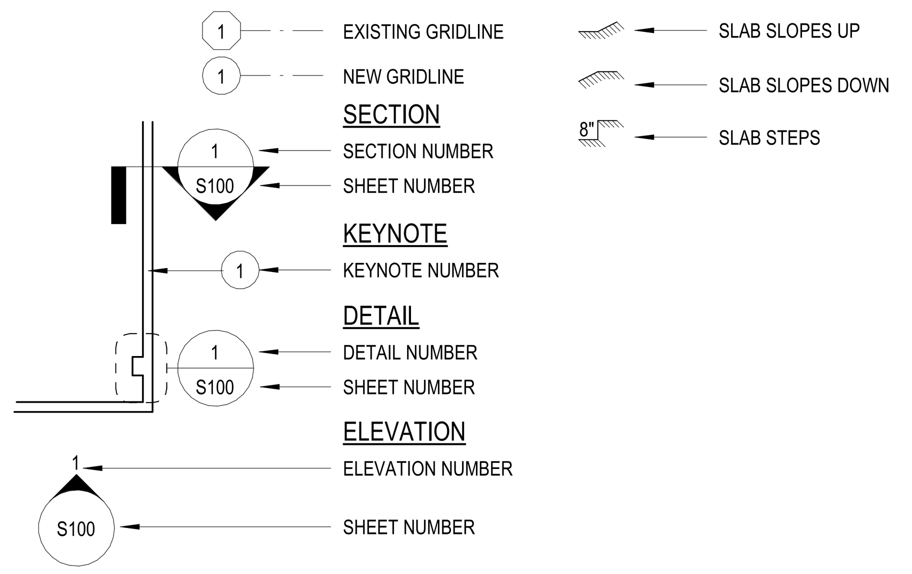
C202

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

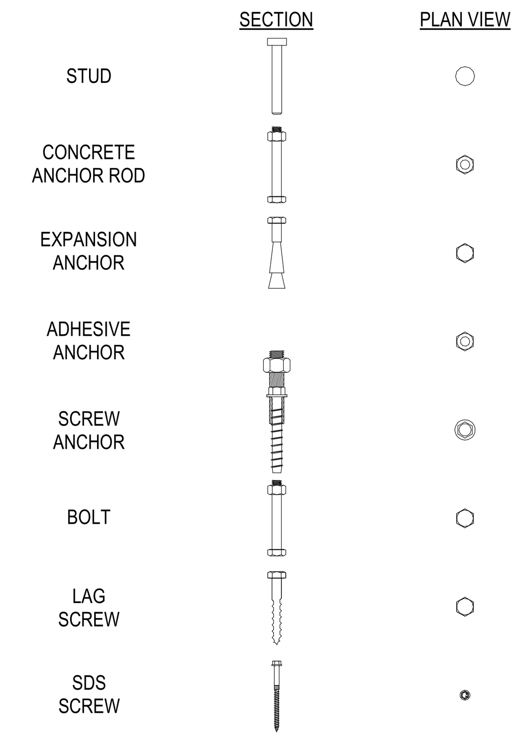
1/12/2024 3:32:00 PM

ABBREVIATIONS

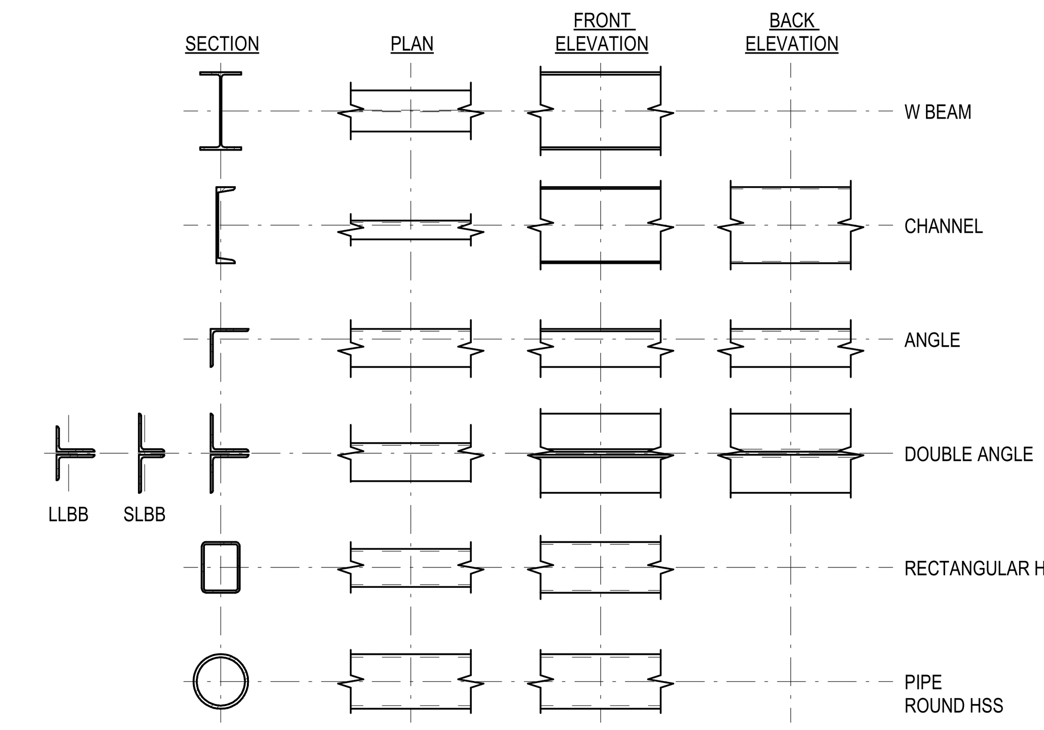
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJACENT, ADJUNCT
ADJT	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANC	ANCHOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
LOC(S)	ANCHOR BOLT
B/__	BOTTOM OF __
B/CONC	BOTTOM OF CONCRETE
B/STL	BOTTOM OF STEEL
BD	BOARD
BEL	BELOW
BF	BRACED FRAME
BITUM	BITUMINOUS
BL	BUILDING LINE
BLDG	BUILDING
BLK(G)	BLOCK(ING)
BM	BEAM
BPL	BEARING PLATE
BRCG	BRACING
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BS	BOTH SIDES
BT	BENT
BTM	BOTTOM
BTWN	BETWEEN
BW	BOTH WAYS
C	STEEL CHANNEL
CALC	CALCULATION
CDF	CONTROLLED DENSITY FILL
CEM	CEMENT
CFT	CUBIC FOOT
CIP	CAST IN PLACE CONCRETE
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR(ANCE) / CLEAR
CM	CENTIMETER(S)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COM	COMMON
CONC	CONCRETE
COND	CONDITION
CONN	CONNECTION
CONST	CONSTRUCTION
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUE(OUS)
CONTR	CONTRACT(OR)
CSK	COUNTERSINK, COUNTERSUNK
CTC	CENTER TO CENTER
CTLVR	CANTILEVER
CTR	CENTER
CY	CUBIC YARDS
CYL	CYLINDER
d	PENNY (AS IN NAIL, Id)
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DC	DEMAND CRITICAL WELD
DCON	DRAG CONNECTION
DD	DESIGN DEVELOPMENT
DEG	DEGREE
DEM	DEMOLISH
DEP	DEPRESSED
DEPR	DEPRESSION
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DO	DITTO
DTA	DOVETAIL ANCHOR
DTS	DOVETAIL ANCHOR SLOT
DVPMT	DEVELOPMENT
DWG	DRAWING
DWLS	DOWELS
(E)	EXISTING
E	EAST
EA	EACH
EB	EXPANSION BOLT
EF	EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
ELEV	ELEVATION
EO	EDGE OF
EOC	EDGE OF CONCRETE
EOM	EDGE OF MASONRY
EOP	EDGE OF PAVEMENT
EOS	EDGE OF SLAB
EPY	EPOXY COATING
EQ	EQUAL
EQUIV	EQUIVALENT
EST	ESTIMATE(D)
EXP	EXPANSION
EXT	EXTERIOR
F	FAHRENHEIT
FAS	FASTEN(ER)
FB	FLAT BAR
FBO	FURNISHED BY OTHERS
FDN	FOUNDATION
FFE	FINISHED FLOOR ELEVATION
FFL	FINISH FLOOR LINE
FIG	FIGURE
FIN	FINISH(ED)
FLG	FLANGE
FLR	FLOOR
FND	FOUNDATION
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FS	FAR SIDE
FT	FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE OR GAGE
GAL	GALLON(S)
GALV	GALVANIZED
GC	GENERAL CONTRACT(OR)
GEN	GENERAL
GF	GROUND FACE
GLB	GLUE LAMINATED BEAM
GND	GROUND
GOV	GOVERNEMENT
GR	GRADE(ING)
GRTG	GRATING
GT	GROUT
GVL	GRAVEL
GYP	GYPSUM
H.D.	HEAVY DUTY
HC	HOLLOW CORE
HD	HEAD
HDR	HEADER
HDW	HARDWARE
HGT	HEIGHT
HJT	HEAD JOINT
HK	HOOK(S)
HORIZ	HORIZONTAL
HP	STEEL HP SHAPE
HS	HIGH STRENGTH
HT	HEIGHT
HWD	HARDWOOD
ICF	INSULATED CORE FORM, INSULATING CONCRETE FORM
ID	INSIDE DIAMETER
IFC	ISSUE FOR CONSTRUCTION
IN	INCH
INCL	INCLUDE(D)(ING)
INFO	INFORMATION
INT	INTERIOR
INTM	INTERMEDIATE
INV	INVERT(ED)
JST	JOIST
JT	JOINT
K	KIP (1000 POUNDS)
KD	KILN-DRIED
KLF	KIPS PER LINEAR FOOT
KO	KNOCKOUT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	STEEL ANGLE
LAM	LAMINATE(D)
LAND	LANDSCAPE
LB	LAG BOLT
LBR	LUMBER
LBS	POUNDS
LF	LINEAL FOOT
LG	LONG
LIN	LINEAR
LL	LIVE LOAD
LL	DOUBLE STEEL ANGLE
LLH	LONG LEGS HORIZONTAL
LLV	LONG LEGS VERTICAL
LNTL	LINTEL
LOC(S)	LOCATION(S) OR LOCATE
LONG	LONGITUDINAL
LS	LAP SPLICE
LSL	LAMINATED STRAND LUMBER
LT GA	LIGHT GAGE
LTWT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
LWC	LIGHT WEIGHT CONCRETE
M	METER(S)
MAS	MASONRY
MATL	MATERIAL(S)
MAX	MAXIMUM
MB	MACHINE BOLTS
MBR	MEMBER
MC	MISC STEEL CHANNEL
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MED	MEDIUM
MEP	MECHANICAL, ELECTRIAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER(S)
MO	MASONRY OPENING
MOD	MODIFIED
MONO	MONOLITHIC
MOV	MOVABLE
MTD	MOUNT(ED)(ING)
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NREQD	NOT REQUIRED
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OJ	OPEN-WEB JOIST
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
OTS	OPEN TO STRUCTURE
P-T	POST-TENSIOND
PAR	PARALLEL
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PED	PEDESTAL
PERF	PERFORATE(D)
PERI	PERIMETER
PERP	PERPENDICULAR
PF	PRE-FINISHED
PI	POINT OF INTERSECTION
PL	PLATE
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLG	PILING
PLYWD	PLYWOOD
PNL	PANEL
PNT	PENETRANT TESTING
PREFAB	PREFABRICATE(D)
PREFIN	PREFINISHED
PRF	PREFORMED
PROJ	PROJECT
PSC	PRESTRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED
PTC	POST-TENSIONED CONCRETE
PVC	POLYVINYLCHLORIDE
QTY	QUANTITY
R#	REVISION, REVISED
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
REF	REFERENCE
REINF	REINFORCE(D)
REQD	REQUIRED
REQT	REQUIREMENT(S)
REV	REVISION(S), REVISED
RFG	ROOFING
RGH	ROUGH
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RS	RIGHT SIDE
S	SOUTH
SCHED	SCHEDULE
SD	SCHEMATIC DESIGN
SDI	STEEL DECK INSTITUTE
SDS	SELF DRILLED SCREW
SGN	STRUCTURAL GENERAL NOTES
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SOG	SLAB ON GRADE
SOH	SIMILAR, OPPOSITE HAND
SPEC	SPECIFICATION(S)
SQ	SQUARE
SSTL	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURE(AL)
SW	SHEAR WALL
T&G	TONGUE & GROOVE
T/__	TOP OF __
TEMP	TEMPORARY
THK	THICK(NESS)
TO	TOP OF
TOC	TOP OF CONCRETE
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOP	TOP OF PLATE
TOPO	TOPOGRAPHY
TOS	TOP OF STEEL
TOSL	TOP OF SLAB
TOT	TOP OF TRUSS
TOW	TOP OF WALL
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UT	ULTRASONIC TESTING
VERT	VERTICAL
VNR	VENEER
VOL	VOLUME
W	WEST
W	STEEL WIDE FLANGE BEAM
W/	WITH
W/O	WITHOUT
WD	WOOD
WD BLK	WOOD BLOCKING
WID	WIDTH
WM	WIRE MESH
WP	WORK POINT
WS	WATER STOP
WT	WEIGHT
WTS	WELDED THREADED STUD
WTW	WALL-TO-WALL
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
XS	EXTRA STRONG
XXS	DOUBLE EXTRA STRONG



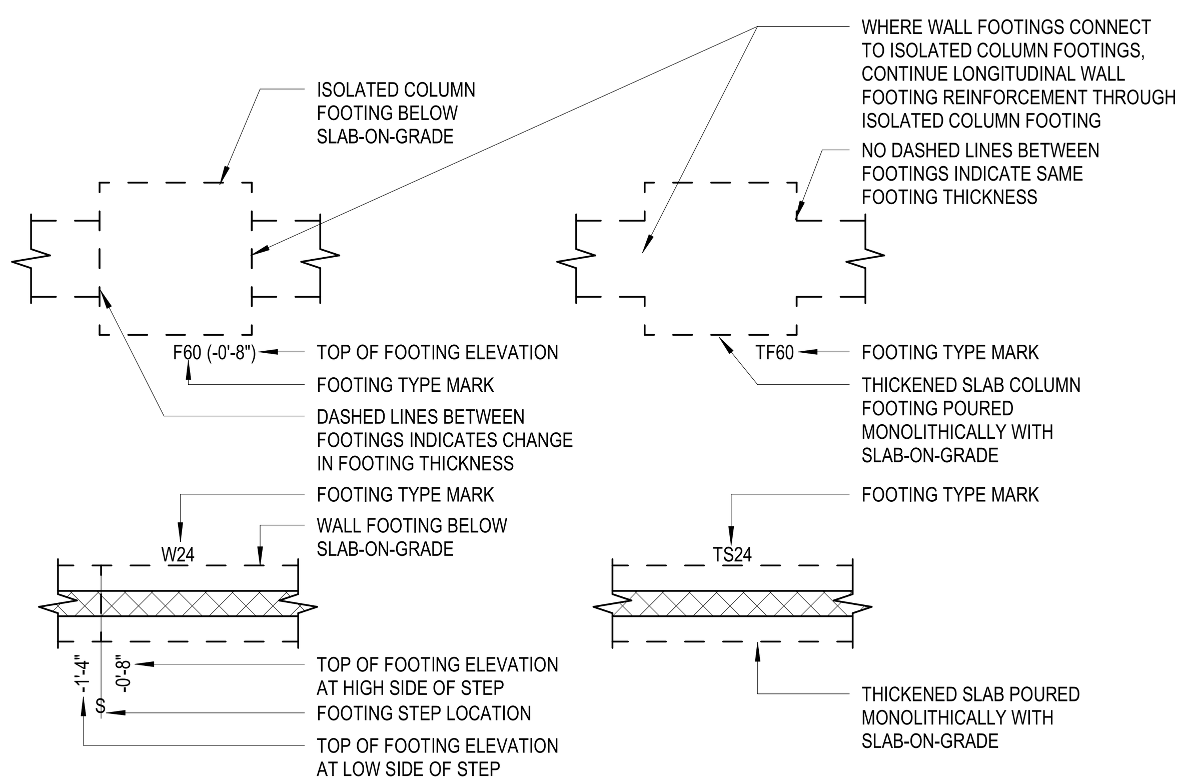
MISCELLANEOUS PLAN SYMBOLS



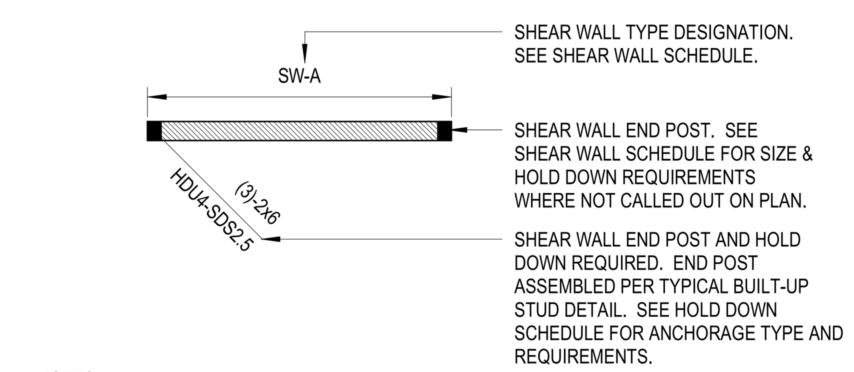
CONNECTOR SYMBOLS



STEEL SHAPE SYMBOLS

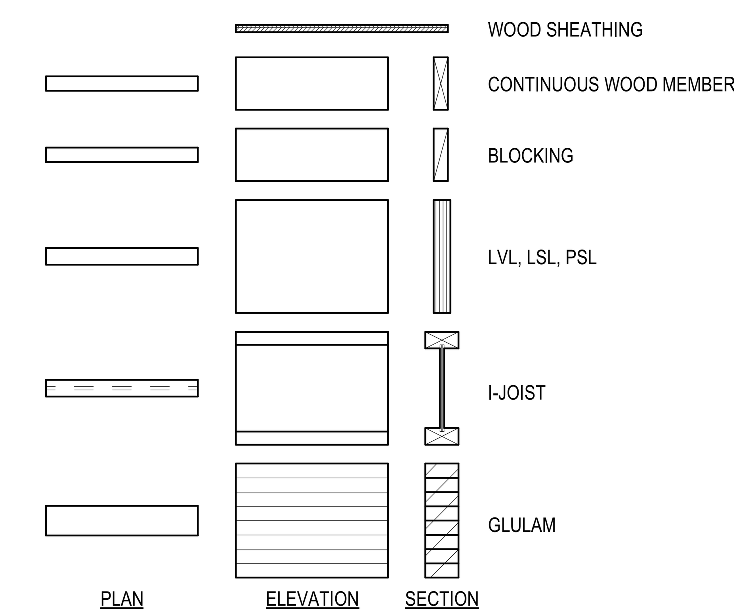


FOOTING SYMBOLS & SCHEDULE MARKS

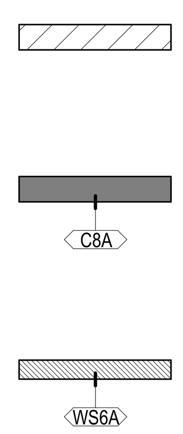


NOTES:
1. SEE PLAN FOR WALL EXTENTS. TYPICALLY, WALLS BEGIN/END AT BUILDING CORNERS, WALL INTERSECTIONS, AND/OR EDGES OF WALL OPENINGS
2. CONSTRUCT PER TYPICAL STRUCTURAL WOOD STUD WALL ELEVATION DETAIL, UNO
3. PROVIDE ADDITIONAL CONSTRUCTION COMPONENTS AS REQUIRED PER SHEAR WALL SCHEDULE
4. AT ELEVATED FLOORS, HOLD DOWNS AND END POSTS ARE REQUIRED ABOVE AND BELOW FLOOR. SEE TYPICAL DETAIL.
5. SHEAR WALL END POST STUDS ARE FULL HT KING STUDS IN ADDITION TO REQUIRED JACK STUDS.

WOOD SHEAR WALL KEY



WOOD SYMBOLS



EXISTING WALL
1. SEE PLAN FOR ASSUMED WALL MATERIAL, SIZE, AND LOCATION.
2. FIELD VERIFY EXISTING WALL MATERIAL, SIZE, AND LOCATION.

CONCRETE WALL
1. SEE PLAN FOR WALL DESIGNATIONS.
2. REINFORCE PER CONCRETE WALL REINFORCING SCHEDULE WHERE REINFORCING IS NOT CALLED OUT ON PLAN.
3. PROVIDE ADDITIONAL REINFORCEMENT AS REQUIRED PER TYPICAL DETAILS.

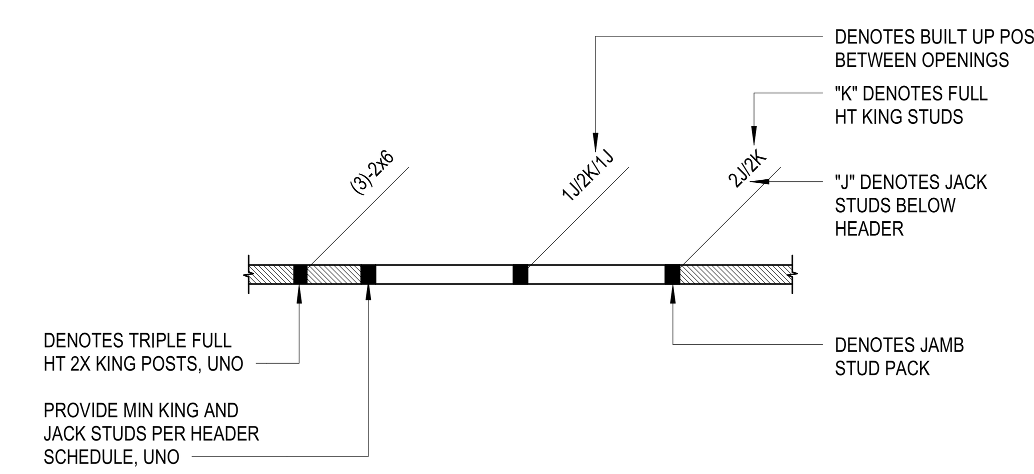
WOOD STUD WALL
1. SEE PLAN FOR WALL DESIGNATIONS.
2. CONSTRUCT PER WOOD STUD WALL SCHEDULE, UNO
3. PROVIDE ADDITIONAL CONSTRUCTION COMPONENTS AS REQUIRED PER SHEAR WALL SCHEDULE WHERE APPLICABLE

STRUCTURAL WALL TYPES

STRUCTURAL SHEET LIST

SHEET NUMBER	SHEET NAME
S001	ABBREVIATIONS, SYMBOLS, AND LEGENDS
S002	STRUCTURAL GENERAL NOTES
S003	STRUCTURAL GENERAL NOTES
S004	SPECIAL INSPECTIONS
S005	TYPICAL CONCRETE DETAILS
S006	TYPICAL WOOD DETAILS
S007	TYPICAL WOOD DETAILS
S100	OVERALL SITE PLAN
S111	FOUNDATION PLAN - PAVILION EXTENSION
S112	ROOF FRAMING PLAN - PAVILION EXTENSION
S121	FOUNDATION PLAN - COMMERCIAL KITCHEN SHELL - ADDITION
S122	ROOF FRAMING PLAN - COMMERCIAL KITCHEN SHELL - ADDITION
S131	MUSIC SITE WALLS
S201	SECTIONS & DETAILS
S202	SECTIONS & DETAILS
S203	SECTIONS & DETAILS
S301	STRUCTURAL ISO
S302	STRUCTURAL ISO

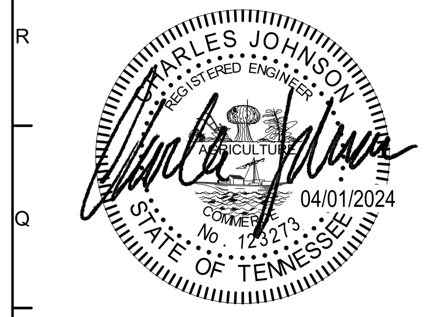
STRUCTURAL SHEET LIST



WOOD STUD WALL KEY

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE. 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 23098

DIA Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com



CONSTRUCTION DOCUMENTS
HERITAGE PARK ADDITION
115 DURHAM DR, MAYNARDVILLE, TN 37607

NO.	DESCRIPTION	DATE

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SHEET DESCRIPTION
ABBREVIATIONS, SYMBOLS, AND LEGENDS

S001

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

C.O.K. PLANS REVIEW / ELECTRONIC PERMIT STAMP

4/1/2024 2:55:38 PM

21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 09 | 08 | 07 | 06 | 05 | 04 | 03 | 02 | 01

USE OF DRAWINGS

TYPICAL DETAILS: ALL TYPICAL DETAILS AND NOTES SHOWN IN THE DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE DRAWINGS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.

STRUCTURAL GENERAL NOTES: NOTES ON THE STRUCTURAL GENERAL NOTES SHEET ARE APPLICABLE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.

USE OF DRAWINGS AND COORDINATION: USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL, CIVIL, MECHANICAL AND OTHER DRAWINGS FOR BIDDING AND CONSTRUCTION. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC NOT SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE WORK AND VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY BETWEEN TRADES AND EQUIPMENT PURCHASED. NOTIFY OWNER'S REPRESENTATIVE OF DISCREPANCIES PRIOR TO CONSTRUCTION.

DRAWING SCALE: NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS - DO NOT SCALE DRAWINGS.

DIMENSION VERIFICATION: DIMENSIONS NOTED PLUS OR MINUS (+/-) OR AS 'FIELD VERIFY' INDICATE UN-VERIFIED DIMENSIONS THAT REQUIRE CONFIRMATION OR DETERMINATION BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY OF CONFLICTS OR VARIATIONS FROM INDICATED DIMENSIONS.

NOTE CONFLICTS: IF ANY STRUCTURAL NOTES ARE IN CONFLICT WITH EACH OTHER ARCHITECTURAL, OTHER DRAWINGS, OR THE SPECIFICATIONS, USE THE MOST STRINGENT REQUIREMENT FOR BIDDING AND CONSTRUCTING THE WORK.

EXISTING CONDITIONS: INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS IN THE FIELD PRIOR TO COMMENCING ANY WORK. IMMEDIATELY REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE ENGINEER OF RECORD. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.

MEANS AND METHODS

MEANS AND METHODS: HAINES STRUCTURAL GROUP, INC. OR ANY OF ITS EMPLOYEES SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, TECHNIQUES, PROCEDURES, SEQUENCES, ACTS OR OMISSIONS OF THE CONTRACTOR OR ANY OTHER PERSONS PERFORMING THE WORK, OR FOR THE FAILURE OF ANY OF INDIVIDUAL OR COMPANY TO SAFELY CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

STABILITY: THE CONTRACTOR SHALL PROVIDE NECESSARY BRACING AND SHORING AS REQUIRED UNTIL THE BUILDING'S STRUCTURAL SYSTEMS HAVE BEEN COMPLETED. THE STRUCTURE SHALL NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL RETAIN A QUALIFIED LICENSED STRUCTURAL ENGINEER WHO SHALL DETERMINE WHERE TEMPORARY SHORING/BRACING IS REQUIRED AND PROVIDE ITS DESIGN. PROVIDE THE TEMPORARY BRACING AS REQUIRED TO STABILIZE THE STRUCTURE AND ITS COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED ACCORDING TO THE CONTRACT DOCUMENTS.

JOBSITE SAFETY: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND FOR MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK IN A MANNER THAT PROVIDES FOR THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST INJURY AND DAMAGE DUE TO FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH CONSTRUCTING THE WORK.

CONSTRUCTION LOADING: THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE STRUCTURE DURING CONSTRUCTION. WHERE CONSTRUCTION SEQUENCING AND STAGING ARE LIKELY TO CREATE OVERLOADING, THE CONTRACTOR SHALL RETAIN A QUALIFIED STRUCTURAL ENGINEER TO DETERMINE HOW TO TEMPORARILY SHORE AND SUPPORT THE OVERLOADED ELEMENTS IN A MANNER THAT DOES NOT EXCEED THE STRESS LIMITS OF THE ELEMENTS AND THE SUPPORTING FOUNDATION AS DEFINED BY THE APPLICABLE BUILDING CODES.

GEOTECHNICAL

ASSUMED SOIL DESIGN PARAMETERS: A GEOTECHNICAL REPORT HAS NOT BEEN PROVIDED TO THE ENGINEER. THE FOUNDATION SYSTEM HAS BEEN DESIGNED USING THE FOLLOWING ASSUMED SOIL PARAMETERS. THE CONTRACTOR SHALL EMPLOY A TESTING LABORATORY TO VERIFY AND INSPECT THE FOLLOWING DESIGN PARAMETERS. A GEOTECHNICAL ENGINEER LICENSED IN THE PROJECT STATE EMPLOYED BY THE TESTING LABORATORY SHALL REVIEW AND VERIFY THE FOLLOWING DESIGN PARAMETERS TO ENSURE THAT ANTICIPATED TOTAL SETTLEMENT WILL NOT EXCEED ONE INCH. SHOULD ACTUAL CONDITIONS BE DETERMINED TO DEVIATE FROM THE VALUES SPECIFIED, THE TESTING LABORATORY AND THE CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER BEFORE CONSTRUCTION OF THE SHALLOW FOUNDATION SYSTEM.

ALLOWABLE BEARING PRESSURE:	2,000 PSF
FROST DEPTH:	18 INCHES
BUILDING PAD:	
SUBGRADE MODULUS:	125 PCI
COEFFICIENT OF FRICTION:	0.35
FOUNDATION/RETAINING WALL:	
WEIGHT OF BACKFILL MATERIAL:	110 PCF
AT REST PRESSURE:	55 PSF/FT
ACTIVE PRESSURE:	35 PSF/FT
PASSIVE PRESSURE:	330 PSF/FT
COEFFICIENT OF FRICTION:	0.35

GEOTECH APPROVAL: THE GEOTECHNICAL ENGINEER SHALL OBSERVE AND APPROVE PREPARED SOIL BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL AND CASTING OF FOOTINGS AND SLABS. THE GEOTECHNICAL ENGINEER OR AN APPROVED TESTING LAB SHALL OBSERVE SOIL COMPACTION WORK.

SUBGRADE PREP: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS SHALL CONFORM STRICTLY TO THE CONTRACT DOCUMENTS, THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT, AND AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

UTILITIES: DETERMINE THE LOCATION OF ALL NEW/EXISTING UNDERGROUND UTILITIES IN AND ADJACENT TO THE AREA OF WORK PRIOR TO COMMENCING EXCAVATION. COORDINATE UTILITY LOCATIONS WITH FOUNDATIONS AS REQUIRED.

EXISTING STRUCTURES: CONTRACTOR SHALL CONFIRM THE AS BUILT LOCATION OF ANY POTENTIAL NEW OR EXISTING STRUCTURES OR OBJECTS WITHIN THE ZONE OF EXCAVATION INCLUDING WORK PERFORMED AS A PORTION OF THIS PROJECT BEFORE EXCAVATING OR INSTALLING FOUNDATION ELEMENTS. NOTIFY THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY EXCAVATIONS OR OTHER SITE WORK, IF THE EXCAVATION WILL CUT BELOW AN ADJACENT STRUCTURE'S BOTTOM OF FOOTING ELEVATION OR IF AN ADJACENT STRUCTURE IS UPSLOPE FROM THE PLANNED SITE WORK.

BACKFILL: BACKFILL FOOTINGS AND RETAINING WALLS WITH FREE DRAINING GRANULAR FILL. PROVIDE A SUBSURFACE DRAINAGE SYSTEM FOR FOUNDATION AND RETAINING WALLS BASED ON THE GEOTECHNICAL REPORT RECOMMENDATIONS. DO NOT BACKFILL BEHIND WALLS BEFORE ADJACENT SUPPORTING ELEMENTS ARE COMPLETE AND CURED. ALTERNATIVELY, PROVIDE DESIGN AND CONSTRUCTION OF TEMPORARY BRACING THAT PROTECTS THE WALL AGAINST OVERSTRESS OR MOVEMENT.

WEEP HOLES: PROVIDE 2" DIAMETER WEEP HOLES AT 6'-0" OC MAXIMUM IN EXTERIOR RETAINING WALLS. PROVIDE FILTER FABRIC OR STAINLESS STEEL WIRE MESH OVER THE WEEP HOLE TO RETAIN THE BACKFILL MATERIAL.

SLAB-ON-GRADE BASE: AGGREGATE BASE (GRANULAR FILL) BELOW CONCRETE SLAB-ON-GRADE SHALL CONSIST OF MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND BASED ON LOCAL AVAILABILITY.

FOOTINGS: FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH (CONTROLLED, COMPACTED STRUCTURAL FILL OR BOTH) AT LEAST FROST DEPTH BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS AND DETAILS ARE MINIMUM. ESTABLISH THE ACTUAL BOTTOM-OF-FOOTING ELEVATIONS IN THE FIELD, BASED UPON THE GEOTECHNICAL ENGINEER'S ON-SITE OBSERVATIONS AND ADDITIONAL TESTING, IF REQUIRED, THAT WILL ACHIEVE THE ALLOWABLE DESIGN BEARING PRESSURE. NOTIFY ENGINEER OF ANY NECESSARY DEVIATIONS FROM THE FOOTING ELEVATIONS SHOWN ON THE DRAWINGS PRIOR TO CONSTRUCTING THE FOOTINGS.

CONCRETE PLACEMENT: FOUNDATION CONCRETE SHALL BE PLACED THE SAME DAY THE EXCAVATION IS MADE WHEN FEASIBLE. WHERE FOUNDATION EXCAVATIONS MUST REMAIN OPEN OR EXPOSED, SPECIAL CARE SHOULD BE TAKEN TO PROTECT THE EXPOSED SOILS FROM BEING DISTURBED, SATURATED, OR DRIED OUT PRIOR TO THE PLACEMENT OF SELECT FILL OR CONCRETE WITH A MUD MAT OF LEAN (250 PSI) CONCRETE OR AS APPROVED BY THE GEOTECHNICAL ENGINEER.

FORMS: THE EXTERIOR VERTICAL FACE OF ALL EXPOSED SLAB TURNDOWNS SHALL BE FORMED. THE SIDES OF FOOTINGS MAY BE EARTH FORMED AS LONG AS THE SOIL WILL MAINTAIN A VERTICAL FACE. ALL FOUNDATION STEM WALLS AND RETAINING WALLS SHALL BE FORMED ON BOTH SIDES OF THE WALL.

EXCAVATION: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION. COMPLY WITH ALL APPLICABLE OSHA REGULATIONS.

COMPACTION: MECHANICALLY COMPACT EXCAVATION BACKFILL IN LAYERS. PROVIDE THE FOLLOWING MINIMUM COMPACTION IN ACCORDANCE WITH THE ASTM D1557 TEST METHOD UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT:

TRENCH AND WALL BACKFILL:	90% MAXIMUM DRY DENSITY
FILL BENEATH SLAB-ON-GRADE:	95% MAXIMUM DRY DENSITY
FILL BENEATH FOOTINGS:	98% MAXIMUM DRY DENSITY

DESIGN AND CONSTRUCTION CRITERIA

EXISTING BUILDING: THE EXISTING BUILDING WILL BE MODIFIED AS PART OF THE PROJECT. THE PROJECT IS NOT INTENDED TO BE A FULL SEISMIC RENOVATION OF THE BUILDING. THE BUILDING WILL BE MODIFIED ACCORDING TO THE WORK AREA COMPLIANCE METHOD AS SPECIFIED IN THE INTERNATIONAL EXISTING BUILDING CODE (IEBC).

PER IEBC SECTION 606, DAMAGED ELEMENTS MAY BE PERMITTED TO BE RESTORED TO THEIR PRE-DAMAGED CONDITIONS PROVIDED THE REPAIRS DO NOT CREATE A DANGEROUS CONDITION. ALL NEW ELEMENTS UTILIZED IN STRUCTURAL REPAIRS MUST MEET CURRENT CODE REQUIREMENTS. THE CURRENT DESIGN UTILIZES BOTH OF THESE CONCEPTS.

WORK AREA: THE WORK SPECIFIED IN THESE DOCUMENTS IS CLASSIFIED AS AN ADDITION AND AN ALTERATION LEVEL 2 PER THE IEBC DEFINITIONS PROVIDED IN CHAPTER 6. THE WORK AREA IS REPRESENTED ON THE DRAWINGS BY DARK LINES, INDICATING WORK TO BE PERFORMED. THE EXISTING BUILDING ELEMENTS ARE REPRESENTED ON THE DRAWINGS BY HALF-TONE LINES. PER IEBC SECTION 806 AND 1103, ALTERATIONS MAY BE PERMITTED TO BE MADE TO ANY STRUCTURE WITHOUT REQUIRING THE EXISTING STRUCTURAL ELEMENTS TO COMPLY WITH SECTIONS 1609 AND 1613 OF THE 2018 IBC PROVIDED THE FOLLOWING PROVISIONS ARE MET:

1. THE ALTERATION DOES NOT INCREASE THE DESIGN GRAVITY LOAD IN ANY EXISTING STRUCTURAL ELEMENT BY MORE THAN 5 PERCENT.
2. THE ALTERATION DOES NOT INCREASE THE DESIGN LATERAL FORCE IN ANY EXISTING STRUCTURAL ELEMENT BY MORE THAN 10 PERCENT.
3. THE ALTERATION DOES NOT DECREASE THE DESIGN STRENGTH OF ANY EXISTING STRUCTURAL ELEMENT TO RESIST LATERAL FORCES BY MORE THAN 10 PERCENT.

ELEMENTS THAT COMPLY WITH THE PROVISIONS LISTED ABOVE HAVE NOT BEEN MODIFIED. ALL EXISTING ELEMENTS THAT DO NOT COMPLY WITH THE EXCEPTIONS LISTED ABOVE HAVE BEEN REVIEWED, ANALYZED, AND UPGRADED TO MEET ALL APPLICABLE REQUIREMENTS OF THE 2018 IBC.

GOVERNING BUILDING CODE: ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE (IBC), AND THE 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC).

PRIMARY REFERENCE STANDARDS: THE PUBLICATIONS LISTED BELOW ARE THE MATERIAL SPECIFIC GOVERNING CODES AND STANDARDS USED REFERENCED BY THEIR BASIC DESIGNATION. IN THE CASE OF CONFLICTING REQUIREMENTS, THE BUILDING CODE SHALL GOVERN. ADDITIONAL MATERIAL SPECIFIC DESIGN STANDARDS ARE ALSO LISTED UNDER THE RESPECTIVE MATERIAL SECTION OF THESE GENERAL NOTES. FOR ALL STANDARDS, USE THE VERSION REFERENCED BY THE GOVERNING BUILDING CODE. IF NOT REFERENCED BY GOVERNING BUILDING CODE, USE THE LATEST EDITION.

ACI 318-14	AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
AISC 360-16	AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
NDS-2018	AMERICAN FOREST AND PAPER ASSOCIATION, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
ASCE 7-16	AMERICAN SOCIETY OF CIVIL ENGINEERS MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM INTERNATIONAL)
ICC	INTERNATIONAL CODE COUNCIL, INTERNATIONAL CODE COUNCIL - EVALUATION SERVICES (ICC-ES)

MATERIAL PROPERTIES: MATERIAL PROPERTIES LISTED IN THE CONSTRUCTION DOCUMENTS ARE BASED UPON MATERIALS CURRENTLY AVAILABLE FOR CONSTRUCTION AND MAY NOT CORRESPOND WITH TABLES PROVIDED IN THE CODES AND SPECIFICATIONS LISTED HEREIN. WHERE POSSIBLE, THESE CODES HAVE BEEN USED IN THEIR ENTIRETY. WHERE THESE CODES REFERENCE OBSOLETE INFORMATION, INFORMATION BASED UPON CURRENT INDUSTRY STANDARDS HAS BEEN SUBSTITUTED AS NECESSARY.

PROJECT STATE: THE PROJECT IS TO BE CONSTRUCTED IN THE STATE OF TENNESSEE.

DESIGN LOADS: BUILDING DESIGN LOADS HAVE BEEN DETERMINED IN ACCORDANCE WITH THE BUILDING CODE AND ASCE 7 AS FOLLOWS:

ROOF DEAD LOADS:	
ROOFING	2 PSF
5/8" PLYWOOD SHEATHING	2 PSF
WOOD JOISTS	2.5 PSF
STEEL BAR JOISTS	3 PSF
WOOD TRUSSES	3.5 PSF
SUSPENDED CEILING	3 PSF
INSULATION ALLOWANCE	6 PSF
M,E,& P ALLOWANCE	2 PSF
EQUIPMENT	ACTUAL WEIGHT
TOTAL KITCHEN ADDITION DESIGN DL=	20 PSF
TOTAL ENCLOSED PAVILION DESIGN DL=	15 PSF
TOTAL OPEN PAVILION DESIGN DL =	9 PSF
LIVE LOADS:	
ROOF	20 PSF
UNINHABITABLE ATTICS W/O STORAGE	10 PSF
SNOW LOAD:	
GROUND SNOW LOAD:	Pg - 10 PSF
SNOW DRIFT LOADS PER ASCE 7, SECTION 7.7.	
RAIN LOAD:	
DESIGN RAINFALL INTENSITY	*i* - 3.0 IN/H
WIND LOADS:	
ANALYSIS PROCEDURE:	DIRECTIONAL PROCEDURE - PART 1
DESIGN WIND SPEED:	Vult - 105 MPH Vasd - 81.3 MPH
RISK CATEGORY:	II
EXPOSURE CATEGORY:	C, ALL FACES
DIRECTIONALITY FACTOR, Kd:	0.85
TOPOGRAPHIC FACTOR, Kzt:	1.00
INTERNAL PRESSURE COEFFICIENT:	± 0.18 AND 0.00
COMPONENTS & CLADDING WIND PRESSURES, SEE DIAGRAMS	
SEISMIC LOAD:	
ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE PROCEDURE
SITE CLASS:	D
RISK CATEGORY:	II
SEISMIC IMPORTANCE FACTOR:	Ie = 1.0
SEISMIC DESIGN CATEGORY:	C
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	Ss – 0.501 S1 – 0.119
DESIGN SPECTRAL RESPONSE ACCELERATIONS:	Sds – 0.467 Sd1 – 0.187
SEISMIC LOAD RESISTING SYSTEMS:	
LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE	
RESPONSE MODIFICATION FACTOR:	R = 6.50
OVER-STRENGTH FACTOR	Ω_0 = 2.50
DEFLECTION AMPLIFICATION FACTOR:	C_d = 4.00
SEISMIC RESPONSE COEFFICIENT:	Cs - 0.072
TIMBER FRAMES	
RESPONSE MODIFICATION FACTOR:	R = 1.50
OVER-STRENGTH FACTOR	Ω_0 = 1.50
DEFLECTION AMPLIFICATION FACTOR:	C_d = 1.50
SEISMIC RESPONSE COEFFICIENT:	Cs - 0.312
DESIGN BASE SHEAR:	
ENCLOSED KITCHEN BUILDING:	4 KIPS
ENCLOSED PAVILION BUILDING:	
OPEN PAVILION BUILDING:	8.3 KIPS

ROOF DRAINAGE: THE ROOF FRAMING SYSTEM HAS BEEN DESIGNED WITH THE ASSUMPTION THAT A DRAINAGE SYSTEM ADEQUATE TO PREVENT PONDING WILL BE PROVIDED.

MECHANICAL: COORDINATE THE LOCATIONS OF ROOF, FLOOR AND WALL OPENINGS WITH THE TRADES REQUIRING THEM. OPENINGS LARGER THAN 24" X 24" SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER TO DETERMINE POTENTIAL IMPACTS ON THE FRAMING. ANY EQUIPMENT WEIGHING MORE THAN 300 LBS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER TO DETERMINE POTENTIAL IMPACTS ON THE FRAMING.

SUBMITTALS

SHOP DRAWINGS: SUBMIT SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE ARCHITECT AND ENGINEER-OF-RECORD PRIOR TO ANY FABRICATION OR CONSTRUCTION. DIMENSION AND QUANTITY VERIFICATION ARE THE CONTRACTOR'S RESPONSIBILITIES AND ARE NOT REVIEWED BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY THE ENGINEER OF RECORD. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED, EITHER PRIOR TO OR AFTER THE ENGINEER PROCESSES THE SHOP DRAWING SUBMITTALS, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED. IF THE CONTRACTOR ORDERS MATERIAL AND/OR BEGINS CONSTRUCTION WITHOUT APPROVED SHOP DRAWINGS, THEY ACCEPT FULL RESPONSIBILITY FOR ANY CHANGES TO THE MATERIAL OR FRAMING THAT MAY OCCUR DURING THE APPROVAL PROCESS.

DEVIATION FROM CONTRACT DOCUMENTS: CHANGES TO THE CONTRACT DOCUMENTS SHALL BE CLOUDED ON SHOP DRAWINGS OR REQUESTED IN WRITING. THE CONTRACTOR IS LIABLE FOR ANY DEVIATIONS UNLESS REVIEWED AND ACKNOWLEDGED BY THE ENGINEER OF RECORD IN WRITING.

DRAWING PREPARATION: COPIES OF STRUCTURAL DRAWINGS (PLANS AND/OR DETAILS) WILL NOT BE ACCEPTED BY HSG AS SHOP DRAWINGS. ALL SHOP DRAWINGS MUST BE REPRODUCED BY THE RESPECTIVE SUPPLIERS AND DETAILED AS NECESSARY.

SUBMITTAL REVIEW TIME: THE CONTRACTOR SHALL PROVIDE 10 WORKING DAYS IN HIS SCHEDULE FOR THE ENGINEER'S REVIEW OF EACH SUBMITTAL. THE 10 WORKING DAYS COMMENCE UPON THE ENGINEER'S RECEIPT OF A PROPERLY COMPLETED SUBMITTAL IN HIS OFFICE.

REQUIRED SUBMITTALS:
REQUIRED SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

BIDDER-DESIGNED SUBMITTALS
CONCRETE MIX DESIGNS
CONCRETE REINFORCEMENT

BIDDER-DESIGNED SUBMITTALS: CALCULATIONS AND SHOP DRAWINGS FOR ELEMENTS DESIGNED BY THE CONTRACTOR OR VENDORS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER, RETAINED BY THE CONTRACTOR AND REGISTERED IN THE PROJECT STATE. SUBMIT THESE DOCUMENTS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER AND OWNER'S REPRESENTATIVE PRIOR TO FABRICATION. INCLUDE ALL DESIGN LOAD AND REACTIONS ON OTHER STRUCTURES ON THE DRAWINGS. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD SHALL NOT IMPLY ANY RESPONSIBILITY FOR THE ACTUAL DESIGN OF BIDDER-DESIGNED SYSTEMS OR COMPONENTS. BIDDER-DESIGNED SUBMITTALS INCLUDE THE FOLLOWING CONTRACTOR/VENDOR DESIGNED ELEMENTS.

OPEN-WEB STEEL JOISTS
PRE-MANUFACTURED METAL-PLATED WOOD TRUSSES
FLAG POLE FOUNDATION

SUBMITTAL ACCEPTANCE: FOLLOWING ACCEPTANCE BY THE ARCHITECT AND ENGINEER AND PRIOR TO FABRICATION, ADDITIONAL TIME FOR REVIEW AND ACCEPTANCE OF SUBMITTAL BY THE BUILDING OFFICIAL IS REQUIRED AND SHALL BE IDENTIFIED AND ALLOWED FOR IN THE CONTRACTOR'S SCHEDULE.

SUBSTITUTIONS: SUBMIT SUBSTITUTION REQUESTS PER THE PROCEDURES IN THE SPECIFICATIONS WITH APPLICABLE ICC REPORTS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO DETAILING, FABRICATION AND ERECTION. ADDITIONAL ENGINEERING CALCULATIONS AND DETAILS, PROVIDED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE, MAY BE REQUIRED OF THE CONTRACTOR FOR SUBSTITUTIONS THAT ARE NOT SIMILAR TO THE SPECIFIED PRODUCTS AND CONFIGURATION.

CONCRETE

REFERENCE STANDARDS:
ACI AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318

AWS AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE – REINFORCING STEEL, AWS D1.4

GENERAL: CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED, AND PLACED IN ACCORDANCE WITH IBC SECTION 1905 AND ACI 301.

SLAB-ON-GRADE: SEE TYPICAL SLAB ON GRADE DETAILS FOR ALL REQUIREMENTS FOR SLABS-ON-GRADE.

MIX DESIGNS: THE CONCRETE MIX TABLE SHOWN BELOW SHALL APPLY TO ALL CONCRETE MIX DESIGNS USED ON THIS PROJECT. MIX DESIGN SUBMITTALS SHALL BE IDENTIFIED FOR INTENDED STRUCTURAL USE AND SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW TWO WEEKS PRIOR TO PLACING ANY CONCRETE.

MIX PROPORTIONING: ALL CONCRETE MIX DESIGNS SHALL BE PROPORTIONED IN ACCORDANCE WITH SECTION 4.2.3 OF ACI 301. SUBMIT MIX DESIGN FOR EACH CLASS OF CONCRETE. IF A STANDARD DEVIATION ANALYSIS IS USED, THE CONCRETE SHALL ACHIEVE AN AVERAGE STRENGTH IN ACCORDANCE WITH TABLE 4.2.3.3.(a) OF ACI 301. SUBMITTALS MADE WHICH DO NOT CONFORM TO ACI 301 SECTION 4.2.3 SHALL BE REJECTED.

CONCRETE MIX DESIGNS

CONCRETE USAGE	f'c (PSI) 28 DAY, MIN	SLUMP	ENTRAINED AIR (MAX)	W/C RATIO (MAX)	MAXIMUM AGGREGATE SIZE	FLY ASH CONTENT	EXPOSURE CLASS
FOOTINGS	3,000	6"	5% (+/- 1.5%)	0.50	1"	15-25%	F0
INTERIOR SLAB ON GRADE	4,000	4"	NONE	0.50	1"	15-25%	F0
EXTERIOR SLAB ON GRADE	4,500	4"	5% (+/- 1.5%)	0.45	1"	15-25%	F2

CEMENT CONTENT: SCHEDULE CEMENT CONTENT IS THE MINIMUM TOTAL CEMENTITIOUS MATERIALS CONTENT INCLUDING PORTLAND CEMENT AND FLY ASH.

FLY ASH: FLY ASH SHALL CONFORM TO ASTM C618, TYPE F. PERCENTAGE SCHEDULED IS BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL INCLUDING ASTM C150, C595, C845, AND C1157 CEMENT. DO NOT USE FLY ASH IF CONTENT WITHIN THE PERCENTAGES SHOWN CANNOT BE ACHIEVED.

ADMIXTURES: WATER-REDUCING ADMIXTURES CONFORMING TO ASTM C494 MAY BE INCORPORATED IN THE CONCRETE MIX DESIGNS AND BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CALCIUM CHLORIDE OR OTHER WATER-SOLUBLE CHLORIDE ADMIXTURES SHALL NOT BE USED.

AIR CONTENT: AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260 SHALL BE USED IN ALL CONCRETE MIXES FOR WORK THAT IS EXPOSED TO WEATHER. WHERE ENTRAINED AIR IS NOT SCHEDULED, DO NOT ALLOW THE AIR CONTENT OF SLABS TO EXCEED 3% NATURALLY. THE AMOUNT OF ENTRAINED AIR SHALL BE MEASURED IN THE FIELD AT THE DISCHARGE END OF THE PLACING HOSE.

SLUMP: SCHEDULED SLUMP IS THE MAXIMUM ALLOWED AND SHALL BE ACHIEVED PRIOR TO ADDING ANY WATER REDUCING ADMIXTURES OR PLASTICIZERS.

LABORATORY TESTING: LABORATORY TESTING WILL BE REQUIRED IN ACCORDANCE WITH ASTM C31. PERFORM COMPRESSION TEST PER ASTM C39; AIR CONTENT TEST PER ASTM C138 (GRAVIMETRIC METHOD), ASTM C173 (VOLUMETRIC METHOD), OR ASTM C231 (PRESSURE METHOD); SLUMP TEST PER ASTM C143.

LABORATORY SHALL TEST THE NUMBER OF CYLINDERS SPECIFIED BELOW FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF:
2 AT 7 DAYS FOR INFORMATION
2 AT 28 DAYS FOR ACCEPTANCE

SLEEVES: SLEEVES FOR PIPING OR DUCTS, EXCEPT AS DETAILED ON THE STRUCTURAL DRAWINGS, SHALL NOT BE PLACED IN JOISTS, BEAMS, GIRDERS, OR IN SLABS ADJACENT TO A COLUMN (WITHIN A DISTANCE EQUAL TO THE SLAB THICKNESS) UNLESS APPROVED BY THE ENGINEER. PLUMBING, MECHANICAL, & ELECTRICAL CONTRACTORS SHALL SUBMIT SIZES AND LOCATIONS OF ALL PENETRATIONS IN STRUCTURAL SLABS FOR THE STRUCTURAL ENGINEER'S APPROVAL BEFORE THE SLAB IS PLACED. ALL PIPE PENETRATIONS THROUGH SLABS SHALL BE SLEEVED IN CONFORMANCE WITH ACI 318, SECTIONS 20.7 & 26.8.

NON-STRUCTURAL EMBEDS: REFER TO DRAWINGS OF OTHER DISCIPLINES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON STRUCTURAL DRAWINGS.

CONDUIT: WHEN RUN IN SLABS, ELECTRICAL CONDUIT SHALL BE RUN AT MID-DEPTH OF THE SLAB AND CONDUIT SIZE SHALL NOT EXCEED 33 PERCENT OF THE SLAB DEPTH. NO CONDUIT SHALL BE PLACED IN SLABS WITH ACTUAL CONCRETE THICKNESS LESS THAN 3 INCHES, NOT INCLUDING METAL DECK DEPTH. THERE SHALL BE A MINIMUM OF 3 INCHES OF CLEAR SPACE BETWEEN CONDUITS. ALUMINUM CONDUIT IS PROHIBITED. ADDITIONAL REINFORCEMENT, #3 AT 12" OC, SHALL BE PLACED PERPENDICULAR TO THE CONDUIT ABOVE AND BELOW THE CONDUIT. THE ADDED REINFORCING SHALL EXTEND 1' - 0" BEYOND THE CONDUITS ON BOTH SIDES.

REINFORCING STEEL MATERIALS:

DEFORMED BARS	ASTM A615, GRADE 60
SMOOTH WELDED WIRE FABRIC (WWF)	ASTM A185 (Fy = 65,000 PSI)

REINFORCING STEEL DETAILING: REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 – DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.

REINFORCING STEEL PLACEMENT: ALL REINFORCEMENT SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ACI 315 DURING CONCRETE PLACEMENT. REINFORCING PLACEMENT SHALL BE APPROVED BY THE ARCHITECT OR THEIR AUTHORIZED REPRESENTATIVE BEFORE CONCRETE IS PLACED. SETTING REBAR IN POURED CONCRETE IS NOT ACCEPTABLE.

CONCRETE (CONT)

REBAR SPLICES: LAP REINFORCING BARS AS NOTED ON THE DRAWINGS. WHERE SPLICE LENGTH IS NOT SHOWN, USE TYPE 'Ls' SPLICE PER DEVELOPMENT AND SPLICE LENGTH SCHEDULE. MECHANICAL OR WELDED BUTT SPLICES SHALL BE SUBJECT TO STRUCTURAL ENGINEER'S APPROVAL. MECHANICAL SPLICES, WHERE ALLOWED ON THE PLANS, SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE SPLICED BARS IN BOTH TENSION AND COMPRESSION. LAP SPLICES OF BOTTOM BARS SHALL OCCUR AT A SUPPORT. LAP SPLICES OF TOP STEEL SHALL OCCUR AT MID SPAN.

FIELD BENDING: NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY DETAILED AS SUCH OR APPROVED BY THE STRUCTURAL ENGINEER.

WELDING: REINFORCING BARS SHALL NOT BE WELDED OR TACK WELDED TO OTHER BARS OR TO PLATES, ANGLES, ETC. UNLESS SPECIFICALLY APPROVED BY THE ENGINEER. WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS DI.4. WELDING SHALL BE DONE BY AWS CERTIFIED WELDERS QUALIFIED FOR WELDS USING APPROVED ELECTRODES.

CONCRETE PROTECTION: CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

CAST AGAINST AND PERMANENTLY
EXPOSED TO EARTH................................3"

EXPOSED TO EARTH OR WEATHER
#5 OR SMALLER..................................1 1/2"
#6 OR LARGER...................................2"

WALL BRACING: CONTRACTOR SHALL PROVIDE ADEQUATE BRACING FOR ALL CONCRETE WALLS DURING CONSTRUCTION AND UNTIL LATERAL SUPPORTS AND DIAPHRAGMS HAVE BEEN ATTACHED AND CONCRETE HAS ATTAINED THE SPECIFIED DESIGN STRENGTH. BACK FILLING SHALL NOT OCCUR UNTIL PERMANENT LATERAL RESTRAINTS ARE INSTALLED IN THEIR ENTIRETY.

WALL CONTROL JOINTS: PROVIDE VERTICAL CONTROL JOINTS IN ALL CONCRETE WALLS. LOCATE JOINTS AT A SPACING NOT EXCEEDING **25** FEET ON CENTER AND AT REVEALS WHERE INDICATED ON THE ARCHITECTURAL DRAWINGS. JOINTS SHALL HAVE 3/4 INCH V-CHAMFERS ON EACH SIDE. SUBMIT JOINT LOCATIONS TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION. DISCONTINUE WALL REINFORCING AT CONTROL JOINTS. USE 1/2" DIAMETER X 3'-0" SMOOTH BARS AT 12" C/C CENTERED IN THE WALL.

WALL CONSTRUCTION JOINTS: WALL CONSTRUCTION JOINTS SHALL BE PLACED NOT MORE THAN **60** FEET APART AND SHALL FALL AT CONTROL JOINTS. CONSTRUCTION JOINTS SHALL BE KEYED.

CHAMFER: PROVIDE CHAMFER AT ALL EXPOSED CORNERS OF BEAMS, WALLS, ETC UNLESS NOTED OTHERWISE. CHAMFER SIZE TO BE PER INDUSTRY STANDARDS.

MISC CONCRETE PADS: COORDINATE CONCRETE EQUIPMENT PAD AND HOUSE KEEPING PAD LOCATIONS AND DIMENSIONS WITH ARCH, MECHANICAL, ELECTRICAL, PLUMBING, AND OWNER REQUIREMENTS.

CONCRETE PLACEMENT: ALL CONCRETE SHALL BE VIBRATED.

A21 STRUCTURAL GENERAL NOTES
NOT TO SCALE

4/1/2024 2:55:40 PM

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE. 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 23098

DIA Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

CHARLES JOHNSON, REGISTERED ENGINEER, AGRICULTURE, COMMERCE, No. 123273, STATE OF TENNESSEE
04/01/2024

CONSTRUCTION DOCUMENTS
HERITAGE PARK ADDITION
115 DURHAM DR, MAYNARDVILLE, TN 37607

NO.	DESCRIPTION	DATE

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SHEET DESCRIPTION
STRUCTURAL GENERAL NOTES

S002

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

C.O.K. PLANS REVIEW / ELECTRONIC PERMIT STAMP

MECHANICAL AND CHEMICAL ANCHORS

ANCHOR CAPACITY: ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY MANUFACTURER OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

INSTALLATION: INSTALL ANCHORS INTO DRY HAMMER DRILLED HOLES PER THE MANUFACTURER INSTRUCTIONS AND IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

POST-INSTALLED DRILLING: HOLES FOR INSTALLING REINFORCING BARS, BOLTS, THREADED RODS AND INSERTS SHALL BE DRILLED USING THE ICC APPROVED DRILLING METHOD FOR THE ANCHOR TO BE INSTALLED. NON-DESTRUCTIVELY LOCATE EXISTING REINFORCING PRIOR TO DRILLING. DO NOT CUT EXISTING REINFORCING.

THREADED RODS: ADHESIVE ANCHORS SHALL USE ASTM F1554 GRADE 36 THREAD RODS, UNO

INSTALLATION TRAINING: PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL ARRANGE FOR A MANUFACTURER'S FIELD REPRESENTATIVE TO PROVIDE INSTALLATION TRAINING FOR ALL PRODUCTS TO BE USED. ONLY TRAINED INSTALLERS SHALL PERFORM POST INSTALLED ANCHOR INSTALLATION. A RECORD OF TRAINING SHALL BE KEPT ON SITE AND BE MADE AVAILABLE TO THE EOR AS REQUESTED.

DEEP EMBEDMENT AND HOT TEMPERATURE: FOR ADHESIVE ANCHOR INSTALLATIONS INTO CONCRETE WITH GREATER THAN 10" EMBEDMENT OR IN WEATHER TEMPERATURES BELOW 40 DEGREES FAHRENHEIT, PROVIDE HILTI RE 500 VE SLOW CURE EPOXY.

MINIMUM CONCRETE AGE: ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS (ACI 318-14 17.1.2).

SPECIAL INSPECTION: PROVIDE SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE BUILDING CODE AND PER THE CURRENT ICC-ES REPORT (IBC 2018 TABLE 1705.3 NOTE B).

ALLOWABLE ANCHORS: THE FOLLOWING TABLE OF ANCHORS REPRESENT THE DEFAULT PRODUCTS USED IN DESIGN. WHERE SPECIFIC PRODUCTS ARE NOT OTHERWISE CALLED OUT IN THE STRUCTURAL DRAWINGS, THIS TABLE SHALL CONTROL.

BASE MATERIAL	ADHESIVE	EXPANSION ANCHOR	SCREW ANCHOR	PAF
HILTI				
CONCRETE	HY 200	KWIK BOLT TZ2	KWIK HUS-EZ	X-C*
STEEL	---	---	SELF DRILL HWH2 10-16	X-U
* USE X-CP FOR WOOD SILL PLATE TO CONCRETE				
SIMPSON STRONG-TIE				
CONCRETE	SET-3G	STRONG BOLT 2	TITEN HD	PDPA**
STEEL	---	---	X METAL SCREW #10	PDPA
** USE PHN FOR WOOD SILL PLATE TO CONCRETE				
DEWALT FASTENERS				
CONCRETE	PURE 110+ AC200+GOLD	POWER-STUD+ SD1	SCREW-BOLT+	0.300" DIA HEAD DRIVE PIN***
STEEL	---	---	---	0.300" DIA HEAD DRIVE PIN***
*** 0.145" DIA SHANK				

NOTE: CLAY BRICK (URM) REFERS TO SOLID UNREINFORCED MASONRY WALLS CONSTRUCTED WITH CLAY BRICK.

WOOD

REFERENCE STANDARDS:
AF&PA AMERICAN FOREST AND PAPER ASSOCIATION, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH 2018 SUPPLEMENT, NDS

AF&PA AMERICAN FOREST AND PAPER ASSOCIATION, SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC, SDPWS

MATERIAL PROPERTIES: SAWN LUMBER SHALL BE KILN-DRIED OR MC-19 , AND GRADED AND MARKED IN CONFORMANCE WITH THE WEST COAST LUMBER INSPECTION BUREAU - STANDARD GRADING RULES FOR WEST COAST LUMBER NO 17, SOUTHERN PINE INSPECTION BUREAU - STANDARD GRADING RULES FOR SOUTHERN PINE LUMBER, OR SIMILAR APPROVED GRADING AGENCY'S LATEST EDITION STANDARD. ALL DIMENSIONAL WOOD FRAMING USED AS STRUCTURAL ELEMENTS SHALL CONFORM TO DOC PS20-10. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

WALL STUDS	SPF NO 1/NO 2
WALL PLATES	SYP NO 2
JOISTS (2x MEMBERS)	SYP NO 2
BEAMS AND STRINGERS	SYP NO 2
POSTS AND TIMBERS	SYP NO 1

STRUCTURAL COMPOSITE LUMBER: STRUCTURAL COMPOSITE LUMBER LVL SHALL BE MANUFACTURED IN A PLANT UNDER A PROCESS APPROVED BY THE NATIONAL RESEARCH BOARD. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, THE NATIONAL RESEARCH BOARD NUMBER, AND THE QUALITY CONTROL AGENCY. PARALLEL STRAND LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH NER-481 GLUED WITH A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER.

SCL TYPE	Fb (psi)	Fv (psi)	E (ksi)
LVL	2600	285	2000
PSL	2900	290	2200

LIGHT GAGE CONNECTORS: LIGHT GAUGE STEEL CONNECTOR CALLOUTS REFER TO PRODUCTS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY. INSTALL CONNECTORS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND THE DRAWINGS. CONNECTORS SHALL BE INSTALLED TO OBTAIN THE MAXIMUM LOAD VALUE LISTED IN THE MANUFACTURER'S CATALOG UNO. LIGHT GAUGE STEEL CONNECTORS SHALL HAVE A G90 GALVANIZED FINISH. LIGHT GAUGE STEEL CONNECTORS AND THEIR NAILS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL HAVE A G185 GALVANIZED FINISH OR SHALL BE STAINLESS STEEL. FASTENERS LESS THAN ONE HALF INCH DIAMETER FOR THESE CONNECTORS SHALL BE HOT-DIP OR MECHANICALLY GALVANIZED. CONNECTORS SHALL HAVE FASTENERS OF THE SAME MATERIAL TYPE AND FINISH.

NAILING: NAILING SHALL CONFORM TO THESE DRAWINGS AND THE MINIMUM NAILING REQUIREMENTS AS SET FORTH IN THE BUILDING CODE. IN THE EVENT OF A DISCREPANCY BETWEEN THESE DRAWINGS AND THE BUILDING CODE, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

FASTENERS IN CONTACT WITH PRESSURE TREATMENT: NAILS, SCREWS, ANCHOR BOLTS, WASHERS, THRU BOLTS, EXPANSION ANCHORS, EPOXY ANCHOR RODS, AND CONCRETE OR MASONRY HEAVY DUTY SCREW ANCHORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIP (ASTM A153 CLASS C) OR MECHANICALLY GALVANIZED (ASTM B695 CLASS 55).

WOOD (CONT)

SHEATHING: WOOD STRUCTURAL PANELS SHALL BE APA RATED AND SHALL CONFORM TO PS 1/PS 2 PRODUCT STANDARD DOCUMENTS. PANELS PERMANENTLY EXPOSED TO WEATHER SHALL BE EXTERIOR GRADE. PANELS APPLIED TO WALLS, FLOORS, AND ROOFS SHALL BE EXPOSURE 1 GRADE. PROTECT SHEATHING FROM WATER DAMAGE WHILE STORED AT JOB SITE. SHEATHING SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

ROOF SHEATHING SHALL BE 19/32" WITH PANEL SPAN RATING 40/20.

WALL SHEATHING SHALL BE 7/16" WITH PANEL SPAN RATING 24/16.

TYPICAL FRAMING DETAILS: WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE IBC. MINIMUM NAILING SHALL CONFORM TO FASTENING SCHEDULE, IBC TABLE 2304.9.1. ALL NAILS SHALL BE COMMON UNLESS NOTED OTHERWISE. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. NAILS USED ON THE EXTERIOR OR SUBJECT TO MOISTURE SHALL BE GALVANIZED OR STAINLESS STEEL.

TABLE I
COMMON NAIL SIZE TABLE

SIZE	DIAMETER	LENGTH
6d	0.113	2"
8d	0.131	2-1/2"
10d	0.148	3"
12d	0.148	3-1/4"
16d	0.162	3-1/2"
20d	0.192	4"

THE TABLE LISTS THE NAILS USED TO ENGINEER THE WOOD FRAMING FOR THE PROJECT. ALL NAILS USED SHALL COMPLY WITH THE DIAMETERS AND LENGTHS NOTED. SPECIAL NAILS WILL BE NOTED IN THE CONSTRUCTION DOCUMENTS.

BOLTS: WOOD CONNECTION BOLTS SHALL CONFORM TO ASTM A307. BOLTS SHALL BE PROVIDED WITH LOCK WASHERS UNDER NUTS OR SELF-LOCKING NUTS. BOLT HOLES SHALL BE STANDARD SIZE UNLESS NOTED OTHERWISE.

MOISTURE CONTENT: PROTECT WOOD FROM WEATHER SUCH THAT MOISTURE CONTENT AT THE TIME GYPSUM WALLBOARD IS APPLIED DOES NOT EXCEED 19%.

PRESSURE TREATMENT: WOOD MEMBERS DIRECTLY EXPOSED TO MOISTURE OR THAT ARE IN CONTACT WITH CONCRETE OR OTHER CEMENTITIOUS MATERIALS SHALL BE PRESSURE TREATED. PRESSURE TREAT LUMBER IN ACCORDANCE WITH THE MANUAL OF RECOMMENDED PRACTICE OF THE AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA). CONTRACTOR'S ALTERNATE WHERE WOOD IS IN CONTACT WITH CONCRETE: PROVIDE TWO LAYERS OF 40# ASPHALT IMPREGNATED BUILDING PAPER BETWEEN UNTREATED LEDGERS, BLOCKING, ETC. AND CONCRETE OR MASONRY SURFACE.

OPENINGS: DETERMINE THE SIZE AND LOCATION OF OPENINGS, INCLUDING THOSE NOT SHOWN ON THE CONTRACT DRAWINGS, REQUIRED BY ALL TRADES. CONFIRM THAT THE TYPICAL AND SPECIAL FRAMING DETAILS SHOWN IN THE CONTRACT DRAWINGS COVER ALL OF THE CONDITIONS DETERMINED. REPORT DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

GENERAL FRAMING:

CONNECTORS: PROVIDE SIMPSON LUS FACE HANGERS OR B TOP FLANGE HANGERS BETWEEN JOISTS AND BEAMS UNLESS OTHERWISE NOTED. PROVIDE SIMPSON HUSC CONCEALED FLANGE HANGERS BETWEEN BEAMS AND COLUMNS OR BUILT-UP POSTS. PROVIDE SIMPSON AB# SERIES AT BASE AND PC# SERIES AT CAPS UNLESS OTHERWISE NOTED. PROVIDE WEB BLOCKING AT WOOD I JOISTS.

WALLS: STUDS SHALL HAVE FULL BEARING ON A 2" NOMINAL OR LARGER PLATE OR SILL WITH A WIDTH TO EQUAL OR EXCEEDING THE STUD WIDTH. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS. PROVIDE ONE KING STUD AND ONE JACK STUD EACH SIDE OF EA. OPENING, MIN. SEE TYPICAL DETAILS FOR ADDITIONAL OPENING REQUIREMENTS. STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS AT 12" OC, STAGGERED, OR BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS AT 4'-0" OC, MINIMUM TWO ANCHORS PER WALL SEGMENT, MAXIMUM 8" FROM EACH WALL END UNLESS INDICATED OTHERWISE. MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TOGETHER PER THE TYPICAL DETAILS. PROVIDE CONTINUOUS SOLID BLOCKING AT MID-HEIGHT OF ALL STUD WALLS OVER 8'-0" IN HEIGHT (NOT REQUIRED IF WALL IS SHEATHED).

EXTERIOR WALLS: EXTERIOR WALLS SHALL BE CONSTRUCTED AS SHEAR WALL TYPE SW6 UNLESS OTHERWISE NOTED. PROVIDE CONTINUOUS BLOCKING AT ALL JOINTS AND NAIL SHEATHING TO BLOCKING AT 6" ON CENTER AT ALL EDGES PER THE SHEAR WALL SCHEDULE.

OVERDRIVEN SHEATHING NAILS: CARE SHALL BE TAKEN TO AVOID OVERDRIVING NAILS THROUGH ROOF, FLOOR, AND WALL SHEATHING. NAILS SHALL BE CONSIDERED OVERDRIVEN IF THE HEAD HAS BEEN DRIVEN MORE THAN 1/8" BELOW THE FACE OF THE SHEATHING. IF MORE THAN 25% OF THE NAILS IN A SINGLE SHEET ARE OVERDRIVEN, ADD ONE ADDITIONAL NAIL FOR EVERY TWO OVERDRIVEN NAILS WHERE 6" OR 4" NAIL SPACINGS ARE REQUIRED OR REMOVE AND REPLACE THE FULL SHEET WHERE NAIL SPACINGS LESS THAN 4" ARE REQUIRED..

COMBUSTION SOURCES: WOOD FRAMING SHALL BE A MINIMUM OF 2", BUT SHALL NOT BE LESS THAN THE DISTANCE SPECIFIED IN CHAPTER 21 OF THE BUILDING CODE AND THE INTERNATIONAL MECHANICAL CODE, FROM FLUES, CHIMNEYS, AND FIREPLACES, AND 6" AWAY FROM FLUE OPENINGS.

ROOF:

JOIST NOTCHES: JOISTS AS USED IN THIS SECTION REFERS TO 2X FRAMING MEMBERS USED AS ROOF RAFTERS. NOTCHES AT JOIST ENDS SHALL NOT EXCEED ONE FOURTH THE DEPTH OF THE JOIST. HOLES BORED FOR PIPE OR CABLE SHALL BE WITHIN THE MIDDLE THIRD OF THE JOIST DEPTH AND THE DIAMETER OF SUCH HOLES SHALL NOT EXCEED ONE THIRD THE DEPTH OF THE JOIST OR 1", WHICHEVER IS GREATER. ALL OTHER REQUIRED HOLES OR NOTCHES MUST BE APPROVED BY STRUCTURAL ENGINEER. THIS SECTION DOES NOT APPLY TO ENGINEERED WOOD MEMBERS: LS, LVL OR PSL. CONTACT ENGINEER PRIOR TO NOTCHING OR DRILLING IN ENGINEERED WOOD MEMBERS.

SHEATHING LAYOUT: LAY ROOF AND FLOOR SHEATHING WITH GRAIN PERPENDICULAR TO SUPPORTS. NAIL ROOF SHEATHING TO SUPPORTS WITH 8d NAILS AT 6" OC AT FRAMED PANEL EDGES AND AT 12" OC TO INTERMEDIATE SUPPORTS. GLUE AND SCREW FLOOR SHEATHING TO SUPPORTS WITH 8 X 2 1/2" LONG WOOD SCREWS AT 8" OC AT FRAMED PANEL EDGES AND AT 12" OC TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED EDGE CLIPS CENTERED BETWEEN FRAMING MEMBERS AT UNBLOCKED ROOF SHEATHING EDGES. FLOOR SHEATHING SHALL HAVE APPROVED TONGUE-AND-GROOVE EDGES. SEE THE DRAWINGS FOR THE LOCATION OF BLOCKED DIAPHRAGMS, IF ANY. WHERE BLOCKED DIAPHRAGMS ARE REQUIRED, PROVIDE FLAT 2x BLOCKING AT UNFRAMED PANEL EDGES AND NAIL WITH EDGE NAILING SPECIFIED. TOENAIL BLOCKING TO SUPPORTS WITH (2)-10d AT EACH END.

HURRICANE CLIPS: PROVIDE SIMPSON H2.5A HURRICANE CLIPS FROM ROOF RAFTERS AND CANTILEVERED RAFTERS TO THE WALL TOP PLATES OR SUPPORTING BEAMS UNLESS ANOTHER HURRICANE CLIP IS NOTED. PROVIDE WEB BLOCKING AT WOOD I JOISTS RECEIVING HURRICANE CLIPS.

VENTING: THE STRUCTURAL DRAWINGS DO NOT SHOW VENTING DETAILS AT ROOFS AND OTHER ENCLOSED SPACES. SEE ARCH FOR VENTING REQUIREMENTS, IF ANY.

PREFABRICATED PRE-ENGINEERED WOOD TRUSSES

TRUSS DESIGN: PREFABRICATED METAL PLATE CONNECTED WOOD TRUSS SYSTEM SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION, ANSI/TPI 1, AND THE BUILDING CODE FOR THE SPANS AND CONDITIONS SHOWN IN THE CONSTRUCTION DOCUMENTS. THE DESIGN LOADING FOR ROOF TRUSS SYSTEM SHALL BE:

ROOF TRUSSES

TOP CHORD SNOW LOAD		SEE THE GENERAL DESIGN LOADS
TOP CHORD UNBALANCED SNOW LOAD	18.2 PSF	ASCE 7-16, 7.6
TOP CHORD OVERHANG SNOW LOAD	5.6 PSF	ASCE 7-16, 7.4.5
TOP CHORD LIVE LOAD	20 PSF	
TOP CHORD DEAD LOAD	15 PSF	
BOTTOM CHORD LIVE LOAD	10 PSF	
BOTTOM CHORD DEAD LOAD	5 PSF	
WIND UPLIFT (TOP CHORD)	15 PSF	
MAXIMUM LIVE LOAD DEFLECTION	L/240	
MAXIMUM TOTAL LOAD DEFLECTION	L/180	

TRUSS GEOMETRY: ROOF TRUSS TOP CHORDS SHALL BE SLOPED TO FORM THE ROOF SLOPE, UNO. ALL TRUSSES ARE ASSUMED TO BE SIMPLE SPAN, UNO. COORDINATE GEOMETRY OF WOOD TRUSS MEMBERS WITH MECHANICAL, ELECTRICAL, SPRINKLER, ARCHITECTURAL AND BUILDING CODE REQUIREMENTS. ALL AREAS WHERE TRUSSES ARE NOT SPECIFICALLY NOTED SHALL BE STICK FRAMED. VALLEY AND RIDGE SETS OF TRUSSES WILL NOT BE ALLOWED UNLESS WRITTEN APPROVAL HAS BEEN RECEIVED FROM THE ARCHITECT PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.

DEFERRED SUBMITTAL: THE PREFABRICATED METAL PLATE CONNECTED WOOD TRUSS SYSTEM IS A DEFERRED SUBMITTAL. PRODUCTS SHALL BE DESIGNED BY THE MANUFACTURER FOR THE SPANS AND CONDITIONS SHOWN IN THE CONSTRUCTION DOCUMENTS AND SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S PUBLISHED SPECIFICATIONS. PROVIDE FOR SHAPES, BEARING POINTS, INTERSECTIONS, HIPS, VALLEYS, ETC. SHOWN ON THE DRAWINGS. EXACT COMPOSITION OF SPECIAL HIP, VALLEY, AND INTERSECTION AREAS (USE OF GIRDER TRUSSES, JACK TRUSSES, STEP-DOWN TRUSSES, ETC) SHALL BE DETERMINED BY THE MANUFACTURER UNLESS SPECIFICALLY INDICATED IN THE CONSTRUCTION DOCUMENTS. PROVIDE TRUSS-TO-TRUSS CONNECTION DETAILS AND REQUIRED CONNECTION MATERIALS. SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

TRUSS CALCULATIONS: THE TRUSS SYSTEM CALCULATION PACKAGE SHALL BE DESIGNED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE. THE TRUSS SYSTEM ENGINEER SHALL ASSUME ALL RESPONSIBILITY FOR THE WORK OF ALL SUBORDINATES INVOLVED IN THE PREPARATION OF THE TRUSS DESIGN DRAWINGS AND PLACEMENT PLANS.

FRAMING LOAD PATH: THE WOOD TRUSS SYSTEM IS A PRE-ENGINEERED SYSTEM DESIGNED BY SPECIALTY ENGINEERS TO THE CRITERIA IN THE CONSTRUCTION DOCUMENTS. THE WOOD TRUSS SYSTEM SHALL BE PROVIDED TO COMPLETE THE ROOF FRAMING FROM THE ROOF SHEATHING TO THE SUPPORTING MEMBERS BELOW. TRUSSES SHALL NOT PLACE HORIZONTAL REACTIONS ON SUPPORTING MEMBERS.

OVER FRAMING: WHERE OVER FRAMING IS USED TO COMPLETE THE ROOF SYSTEM, OVER FRAMING MEMBERS AND THEIR CONNECTIONS SHALL BE UNDER THE DIRECTION OF THE TRUSS SYSTEM DESIGNER IN ORDER TO PROVIDE A LOADING CONDITION CONSISTENT WITH THE MODELING OF THE TRUSSES. THE TRUSS SYSTEM DESIGNER SHALL INCLUDE OVER FRAMING DETAILS WITH THE PRE-ENGINEERED TRUSS PACKAGE.

TRUSS LAYOUT: TRUSS LOCATIONS ARE SCHEMATICALLY SHOWN ON THE PLANS. IT IS NOT THE INTENT OF THE STRUCTURAL PLANS TO GRAPHICALLY LOCATE ALL FRAMING MEMBERS EXCEPT FOR WHERE CALLED OUT. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING SHOP DRAWINGS FOR MEMBER LAYOUT, CONSTRUCTABILITY AND QUANTITY TAKEOFFS.

TRUSS PROFILES: TRUSS PROFILES, CHORD MEMBER SIZES, AND WEB MEMBER SIZES SHOWN IN THESE DRAWINGS ARE SCHEMATIC ONLY. COORDINATE ROUTING OF DUCTS AND OTHER EQUIPMENT WITH TRUSS SHOP DRAWINGS AND TRUSS MANUFACTURER.

TRUSS BEARING: TRUSS BEARING LOCATIONS ARE INDICATED IN THE CONSTRUCTION DOCUMENTS. THE TRUSS MANUFACTURER SHALL VERIFY TRUSS BEARING CAPACITY ON SOUTHERN PINE PLATES. ALL TRUSS TO TRUSS CONNECTIONS ARE TO BE DESIGNED AND CALLED OUT BY THE TRUSS MANUFACTURER. TRUSSES SHALL BE FASTENED TO SUPPORTING MEMBERS WITH NAILS AND HOLD DOWN CLIPS ACCORDING TO THE BUILDING CODE AND THE ROOF TRUSS FASTENER SCHEDULE IN THESE DRAWINGS.

TRUSS ALIGNMENT: TYPICALLY ALIGN ROOF TRUSSES OVER/WITH SHEAR WALLS. VERIFY WITH CONTRACTOR THE CHOICE TO USE ALTERNATE SHEAR TRANSFER DETAILS WHERE TRUSSES NEED NOT BE ALIGNED. WHERE TRUSSES ALIGN OVER SHEAR WALLS, THE TRUSS SYSTEM DESIGNER SHALL PROVIDE A TRUSS TO CARRY THE DRAG LOAD NOTED ON THE PLAN FROM THE ROOF SHEATHING TO THE SHEAR WALL BELOW OR A MINIMUM OF 150 PLF. DRAG TRUSSES SHALL BE MODELED ACCORDING TO THE ACTUAL SUPPORT CONDITIONS AS SHOWN ON THE PLAN. HORIZONTAL REACTIONS SHALL BE RESISTED ONLY BY LATERAL ELEMENTS SUCH AS SHEARWALLS ACCORDING TO THE DETAILS AND ACTUAL FRAMING CONDITIONS.

TRUSS BRACING: ALL TEMPORARY AND PERMANENT BRACING REQUIRED FOR THE STABILITY OF THE TRUSS ELEMENTS UNDER GRAVITY LOADS, IN-PLANE DRAG LOADS, AND UPLIFT LOADS SHALL BE DESIGNED BY THE TRUSS SYSTEM DESIGNER. WHERE THE TOP CHORD IS NOT DIRECTLY ATTACHED TO THE ROOF SHEATHING, THE TRUSS SYSTEM DESIGNER SHALL DESIGN AND DIRECT THE PLACEMENT OF ALL REQUIRED TOP CHORD BRACING INCLUDING THEIR CONNECTIONS. ANY BRACING LOADS TRANSFERRED TO THE MAIN BUILDING SYSTEM WALL, ETC. SHALL BE IDENTIFIED AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

SHOP DRAWINGS: SHOP DRAWINGS MAY CONTAIN THE MANUFACTURER'S ENGINEERING RESPONSIBILITY LIMITATIONS. HOWEVER, THEY SHALL MAKE NO STATEMENT AS TO THE ENGINEER OF RECORD'S RESPONSIBILITIES. SHOP DRAWINGS SUBMITTALS SHALL INCLUDE THE FOLLOWING:
1. KEY PLAN SHOWING EACH TRUSS LOCATION.
2. INDIVIDUAL TRUSS DESIGNS STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE.
3. PERMANENT BRACING REQUIREMENTS INCLUDING PLACEMENT AND CONNECTION DETAILS STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE.
4. TRUSS DRAWINGS SHALL SPECIFY ALL TRUSS-TO-TRUSS CONNECTIONS/HARDWARE TO MEET THE REQUIREMENTS OF THE PLAN.
5. OVERFRAMING CONNECTIONS AND PLACEMENT DETAILS STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE.

OPENING COORDINATION: COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS AND ROOF TOP EQUIPMENT WITH THE TRADES REQUIRING THEM AND THE WOOD TRUSS SYSTEM MANUFACTURER.

RENOVATIONS

DRY ROT: CHECK FOR DRY ROT AT EXTERIOR WALLS, EXISTING TOILET ROOM FLOORS AND WALLS, AREAS SHOWING WATER STAINS, AND WOOD MEMBERS IN BASEMENT AND CRAWL SPACES. ROT SHALL BE REMOVED AND DAMAGED MEMBERS SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE ARCHITECT OR STRUCTURAL ENGINEER.

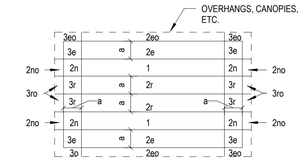
DUST CONTAINMENT: PROVIDE A VISQUEEN ENCLOSURE TO CONTAIN DUST FROM SAWCUTTING WITHIN THE WORK AREA.

ENCLOSED BUILDING COMPONENTS AND CLADDING DESIGN ULTIMATE WIND PRESSURES (PSF)

ROOF				
ZONE	10 SF	20 SF	100 SF	200 SF
1, 2, & 3	+16.0	+16.0	+16.0	+16.0
1 & 2e	-44.9	-44.9	-16.0	-16.0
2n, 2r, & 3e	-65.5	-56.6	-36.0	-27.1
3r	-77.8	-66.7	-40.8	-40.8
1o & 2eo	-47.8	-47.8	-27.2	-27.2
2no & 2ro	-68.4	-61.7	-46.3	-39.6
3eo	-84.4	-72.9	-46.1	-34.6
3ro	-96.8	-81.9	-47.4	-47.4
WALLS				
ZONE	10 SF	100 SF	200 SF	500 SF
4	-26.4	-22.7	-21.6	-20.2
5	-32.5	-25.3	-23.1	-20.2
4&5	+24.3	+20.7	+19.6	+18.1

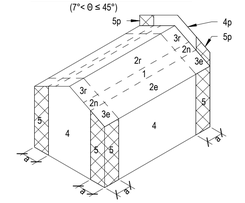
NOTES:
1. TABLE PRESSURES ARE FOR THE SQUARE FOOT TRIBUTARY AREA SHOWN. FOR OTHER TRIBUTARY AREAS, LINEARLY INTERPOLATE BETWEEN VALUES SHOWN ABOVE.
2. POSITIVE PRESSURES ACT TOWARD THE SURFACES. NEGATIVE PRESSURES ACT AWAY FROM THE SURFACES.
3. ROOF UPLIFT PRESSURES LISTED ARE GROSS PRESSURES. A MIN DEAD LOAD OF 9.0 PSF MAY BE APPLIED.
4. θ = ROOF ANGLE FROM HORIZONTAL

a = 4.0 FT



ROOF PLAN (GENERIC BUILDING SHOWN)

(7"< θ ≤ 45")



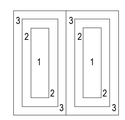
WALLS (GENERIC BUILDING SHOWN)

OPEN BUILDING COMPONENTS AND CLADDING DESIGN WIND PRESSURES (PSF)

ROOF						
EFFECTIVE WIND AREA	ZONE 1		ZONE 2		ZONE 3	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
≤ 15.6 sf	20.6 psf	-19.0 psf	31.8 psf	-29.3 psf	41.2 psf	-37.9 psf
>15.6, ≤ 62.4 sf	20.6 psf	-19.0 psf	31.8 psf	-29.3 psf	31.8 psf	-29.3 psf
> 62.4 sf	20.6 psf	-19.0 psf	20.6 psf	-19.0 psf	20.6 psf	-19.0 psf

NOTES:
1. TABLE PRESSURES ARE FOR THE SQUARE FOOT TRIBUTARY AREA SHOWN. FOR OTHER TRIBUTARY AREAS, LINEARLY INTERPOLATE BETWEEN VALUES SHOWN ABOVE.
2. POSITIVE PRESSURES ACT TOWARD THE SURFACES. NEGATIVE PRESSURES ACT AWAY FROM THE SURFACES.
3. ROOF UPLIFT PRESSURES LISTED ARE GROSS PRESSURES. A MIN DEAD LOAD OF 9.0 PSF MAY BE APPLIED.

a = 4.0 ft.



(θ ≥ 10°)

PITCHED OR TROUGHED ROOF

E05 WIND PRESSURE DIAGRAM
NOT TO SCALE

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE. 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 23098

A21 STRUCTURAL GENERAL NOTES
NOT TO SCALE

4/1/2024 2:55:41 PM

DIA Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

CHARLES JOHNSON REGISTERED ENGINEER No. 122071 STATE OF TENNESSEE 04/01/2024

CONSTRUCTION DOCUMENTS
HERITAGE PARK ADDITION
115 DURHAM DR, MAYNARDVILLE, TN 37607

NO.	DESCRIPTION	DATE

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SHEET DESCRIPTION
STRUCTURAL GENERAL NOTES

S003

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

C.O.K. PLANS REVIEW / ELECTRONIC PERMIT STAMP

STATEMENT OF SPECIAL INSPECTIONS:

1. SPECIAL INSPECTIONS AND STRUCTURAL TESTING SHALL BE PROVIDED BY AN INDEPENDENT AGENCY EMPLOYED BY THE OWNER FOR THE ITEMS IDENTIFIED IN THIS SECTION AND IN OTHER AREAS OF THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS, UNLESS WAIVED BY THE BUILDING OFFICIAL (SEE IBC CHAPTER 17).
2. THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAGED BY THE OWNER'S REPRESENTATIVE OR THE SPECIAL INSPECTOR, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED PRIOR TO COMMENCING WORK
3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING INSPECTION.
4. SPECIAL INSPECTION FREQUENCY:
   A. PERIODIC - THE PART-TIME OR INTERMITTENT OBSERVATION BY THE SPECIAL INSPECTION OF WORK BEING PERFORMED AS DETERMINED BY THE SPECIAL INSPECTOR TO ADEQUATELY DEMONSTRATE INTENT OF THE CONSTRUCTION DRAWINGS ARE BEING MET.
   B. CONTINUOUS - THE FULL-TIME OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED.
5. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
   A. THE SPECIAL INSPECTOR SHALL REVIEW ALL WORK LISTED BELOW FOR CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS AND THE 2018 IBC. ALL ITEMS NOT IN COMPLIANCE SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND IF UNCORRECTED, TO THE EOR AND THE BUILDING OFFICIAL.
   B. THE SPECIAL INSPECTOR SHALL FURNISH SPECIAL INSPECTION REPORTS TO THE EOR, CONTRACTOR, OWNER, AND BUILDING OFFICIAL ON A BI-WEEKLY BASIS, OR MORE FREQUENTLY AS REQUIRED BY THE BUILDING OFFICIAL. REPORTS SHALL DESCRIBE ALL INSPECTIONS, TEST PERFORMED, DISCREPANCY NOTICES AND CORRECTIVE ACTIONS TAKEN.
   C. ONCE CORRECTIONS HAVE BEEN MADE BY THE CONTRACTOR, THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL STATING THAT WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS AS WELL AS THE APPLICABLE WORKMANSHIP PROVISIONS OF THE 2018 IBC.
6. DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR
   A. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER AND THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK. IN ACCORDANCE WITH IBC 1704.4, THE STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF THE SPECIAL INSPECTOR REQUIREMENTS CONTAINED WITHIN THE "STATEMENT OF SPECIAL INSPECTIONS".
   B. THE CONTRACTOR SHALL NOTIFY THE RESPONSIBLE SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST ONE WORKING DAY (24 HOURS MINIMUM) BEFORE SUCH INSPECTION IS REQUIRED.
   C. ALL WORK REQUIRING SPECIAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT HAS BEEN OBSERVED BY THE SPECIAL INSPECTOR.
   D. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH THE CONTRACT DOCUMENTS. JOBSITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
7. PLEASE SEE THE "SPECIAL INSPECTION SCHEDULE" ON THIS SHEET FOR THE TYPES, EXTENTS, AND FREQUENCY OF SPECIFIC ITEMS REQUIRING SPECIAL INSPECTIONS AND STRUCTURAL TESTS AS PART OF THIS PROJECT.
8. THIS STATEMENT OF SPECIAL INSPECTIONS ENCOMPASSES THE FOLLOWING DISCIPLINES: STRUCTURAL
9. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE ARE NOT REQUIRED PER IBC 1705.12.
10. SPECIAL INSPECTIONS FOR WIND RESISTANCE ARE NOT REQUIRED PER IBC 1705.11.

PREPARED BY:

NAME: CHARLES JOHNSON, P.E., S.E.

LICENSE #: 123273

SIGNATURE: DATE: 04/012024

CHARLES JOHNSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 123273
STATE OF TENNESSEE

DESIGN PROFESSIONAL SEAL

OWNER'S AUTHORIZATION:

SIGNATURE: DATE:

BUILDING OFFICIAL'S ACCEPTANCE:

SIGNATURE: DATE:

SPECIAL INSPECTION SCHEDULE: SOILS			
VERIFICATION AND INSPECTION	REQUIRED?	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	X		X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	X		X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	X		X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	X	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	X		X

SPECIAL INSPECTION SCHEDULE: CAST-IN-PLACE FOUNDATION ELEMENTS			
VERIFICATION AND INSPECTION	REQUIRED?	CONTINUOUS	PERIODIC
1. SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE FOUNDATION CONSTRUCTION IN ACCORDANCE WITH THE SPECIAL INSPECTION SCHEDULE: CONCRETE CONSTRUCTION:			
A. ISOLATED SPREAD CONCRETE FOOTINGS	X		X
B. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS	X		X
C. CONCRETE FOUNDATION WALLS	X		X

SPECIAL INSPECTION SCHEDULE: CONCRETE CONSTRUCTION			
VERIFICATION AND INSPECTION	REQUIRED?	CONTINUOUS	PERIODIC
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	X		X
2. REINFORCING BAR WELDING:			
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	X		X
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	X		X
C. INSPECT ALL OTHER WELDS	X	X	
3. INSPECT ANCHORS CAST IN CONCRETE	X		X
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS (NOTE a):			
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	X	
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4A.	X		X
5. VERIFY USE OF REQUIRED DESIGN MIX	X		X
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	X	
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	X	
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	X		X
9. INSPECT PRESTRESSED CONCRETE FOR:			
A. APPLICATION OF PRESTRESSING FORCES.			
B. GROUTING OF BONDED PRESTRESSING TENDONS.			
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.			
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	X		X
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	X		X

TABLE NOTES:

a. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 355.2 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

SPECIAL INSPECTION SCHEDULE: OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
VERIFICATION AND INSPECTION	REQUIRED?	CONTINUOUS	PERIODIC
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS:			
A. END CONNECTIONS - WELDING OR BOLTED	X		X
B. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	X		X

SPECIAL INSPECTION SCHEDULE: WOOD CONSTRUCTION			
VERIFICATION AND INSPECTION	REQUIRED?	CONTINUOUS	PERIODIC
1. FABRICATION PROCESS OF PREFABRICATED WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES	X		X
2. INSPECTION OF HIGH-LOAD DIAPHRAGMS:			
A. VERIFY WOOD STRUCTURAL PANEL SHEATHING IS OF THE GRADE AND THICKNESS SHOWN ON THE CONSTRUCTION DOCUMENTS			
B. VERIFY NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES AGREES WITH THE CONSTRUCTION DOCUMENTS			
C. VERIFY FASTENER DIAMETER AND LENGTH, NUMBER OF FASTNER LINES, THE SPACING OF THE FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREE WITH THE CONSTRUCTION DOCUMENTS			
3. INSPECTION OF METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING 60 FEET OR GREATER:			
A. VERIFY TEMPORARY INSTALLATION RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE			
B. VERIFY PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE			
4. VERIFY COMPLAINCE W/ CONSTRUCTION DOCUMENTS OF STRUCTURAL COMPONENTS INCLUDING:			
A. KING STUDS, JACK STUDS, AND HEADERS	X		X
B. BLOCKING, NAILING, AND SILL PLATE ANCHORAGE	X		X
C. STRAPPING, HOLDOWNS, AND BEARING	X		X
D. SIZE OF TRUSSES AND ALL SUPPLEMENTARY FRAMING	X		X
E. MECHANICAL CONNECTIONS	X		X
F. MATERIAL PROPERTIES	X		X

H21 SPECIAL INSPECTIONS

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ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

CHARLES JOHNSON
REGISTERED ENGINEER
No. 123273
STATE OF TENNESSEE
04/01/2024

CONSTRUCTION DOCUMENTS

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37607

NO.	DESCRIPTION	DATE

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SHEET DESCRIPTION

SPECIAL INSPECTIONS

S004

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE. 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 23098

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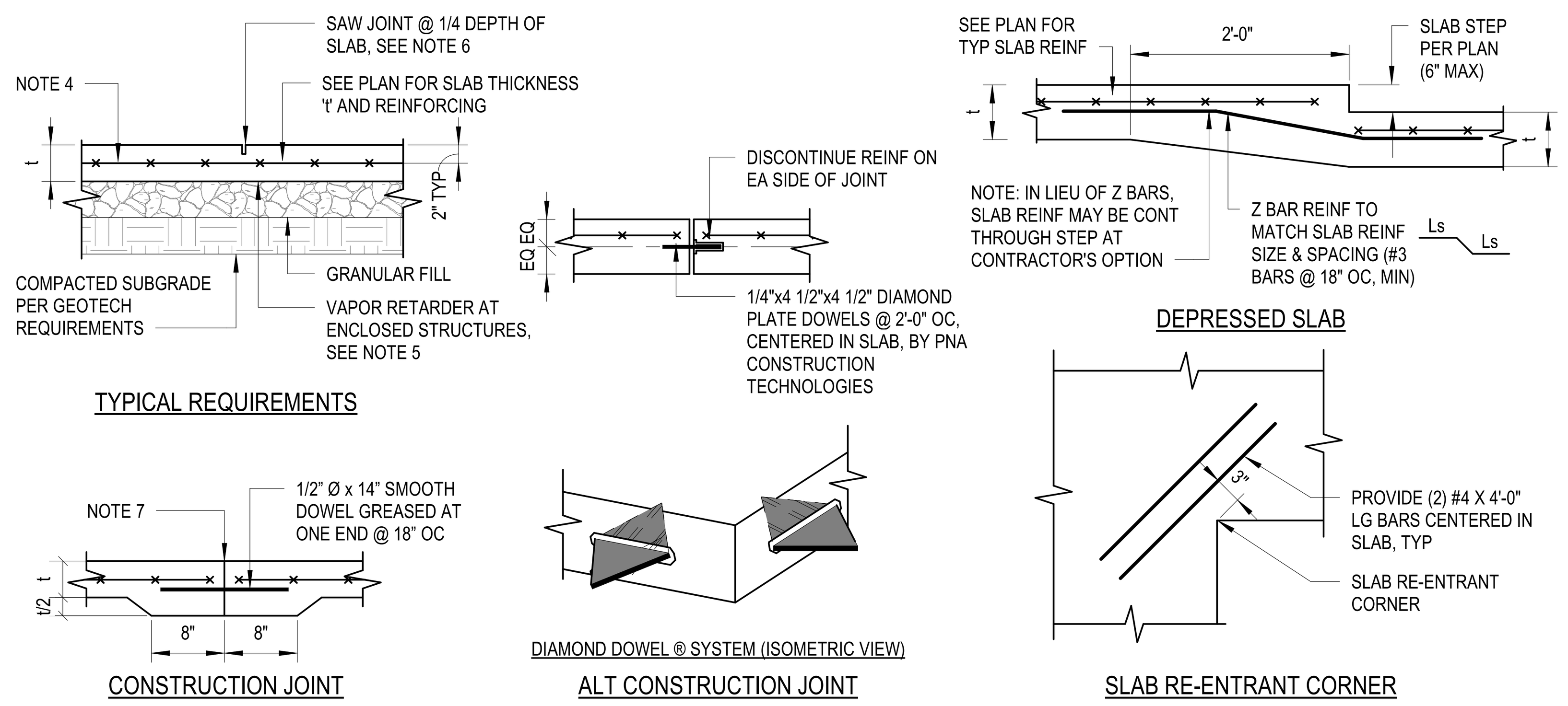
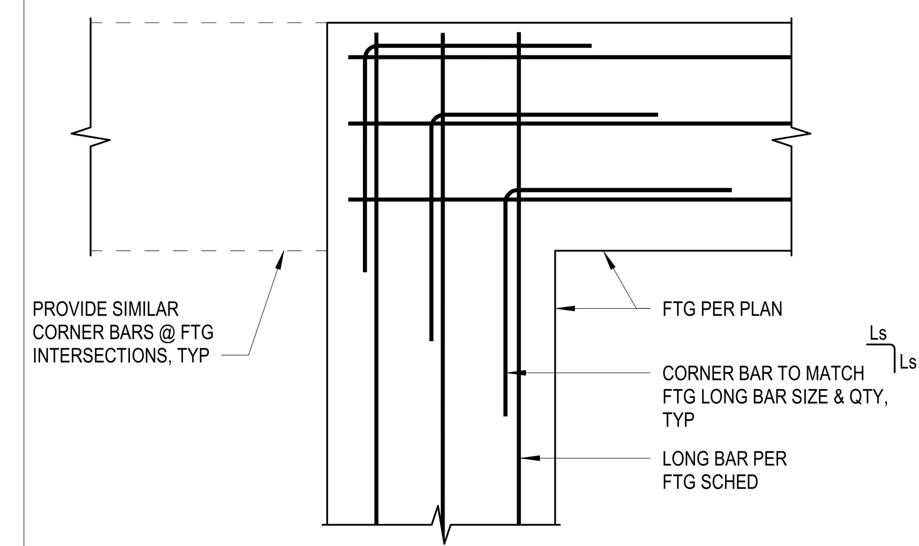


NOTES:
1. ALL SLAB-ON-GRADE CONSTRUCTION SHALL FOLLOW THE RECOMMENDATIONS OF ACI 302.1 "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
2. PROVIDE CURING, FINISHING & SEALING OF SLABS PER ACI 302.1 GUIDELINES. CONCRETE SLABS SHALL CONFORM TO ACI 117-90 FOR FLATNESS AND LEVELNESS. PROVIDE CLASS 1 FLOOR FINISH WITH A FLATNESS/LEVELNESS OF 25/20 (16/13 MIN) ACCORDING TO ASTM E1155, UNLESS SHOWN ON ARCHITECTURAL DRAWINGS OR OTHERWISE NOTED. CONTRACTOR TO PROVIDE FLOOR FLATNESS AND LEVELNESS TESTING WITHIN 72 HOURS OF CONCRETE FINISHING. TEST RESULTS SHALL BE PROVIDED TO THE ARCHITECT AND STRUCTURAL ENGINEER.
3. PROVIDE CURING USING A LIQUID MEMBRANE-FORMING CURING COMPOUND. PROVIDE A POLYETHYLENE (PLASTIC) FILM WHERE WEATHER/TEMPERATURE CONDITIONS REQUIRE ADDITIONAL PROTECTION FOR CURING.
4. WIRE FABRIC SHALL BE PLACED 2" BELOW TOP OF SLAB, UNO. WWF SHALL BE SUPPORTED AT A MAXIMUM SPACING OF 3'-0" OC IN ANY DIRECTION. ALL WELDED WIRE FABRIC SHALL LAP TWO FULL MESHES AND BE SECURELY WIRED AT EACH SIDE AND END. WELDED WIRE FABRIC SHALL BE FABRICATED FROM SHEETS. ROLLS ARE NOT ALLOWED.
5. A VAPOR BARRIER SHALL BE PROVIDED BELOW SLAB-ON-GRADE AT ALL INTERIOR LOCATIONS. VAPOR BARRIER SHALL BE LAPPED AND TAPED AS REQUIRED BY MANUFACTURER. SEE ARCHITECTURAL FOR ADDITIONAL VAPOR BARRIER REQUIREMENTS.
6. PROVIDE CONTROL JOINTS THAT DIVIDE THE SLAB-ON-GRADE INTO RECTANGULAR AREAS WITH LENGTH TO WIDTH RATIOS OF 1.5 OR LESS. LOCATE CONTROL JOINTS UNDER PARTITIONS AND ON COLUMN LINES WHERE POSSIBLE. SUBMIT JOINT LOCATIONS TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION. CONTROL JOINT LOCATIONS SHOWN ON PLAN ARE THE MINIMUM ALLOWABLE BASED ON ONE CONTINUOUS SLAB POUR. ADDITIONAL JOINTS SHALL BE ADDED BY THE CONTRACTOR AS REQUIRED BASED ON POUR SEQUENCE AND SLAB LAYOUT. CONTROL JOINT SPACING SHALL NOT EXCEED THE MAXIMUM SPACING NOTED ON PLAN.
7. ALL CONSTRUCTION JOINTS SHALL BE PLACED AT COLUMN LINES OR UNDER PARTITIONS AT DISCRETION OF CONTRACTOR. FOR SLAB POUR MAINTAIN CONSISTENT SPACING WITH CONTROL JOINTS.

Q21 TYP SLAB-ON-GRADE CONSTRUCTION

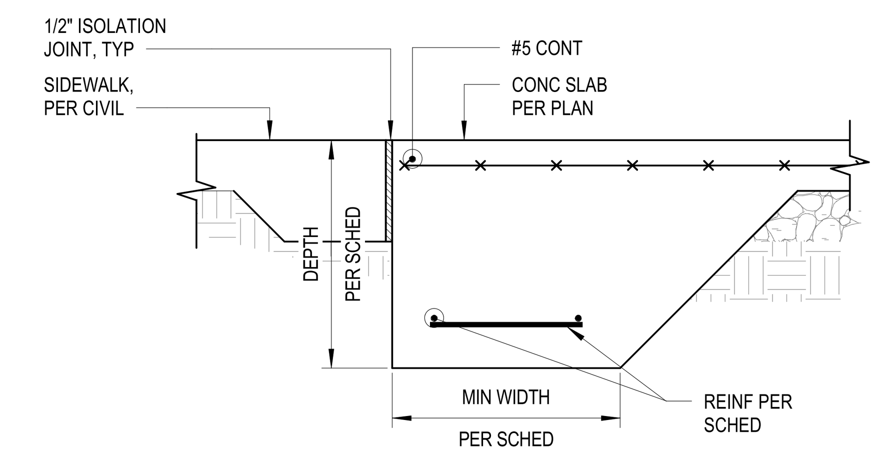
3/4" = 1'-0"



Q09 TYPICAL FOOTING CORNER BARS

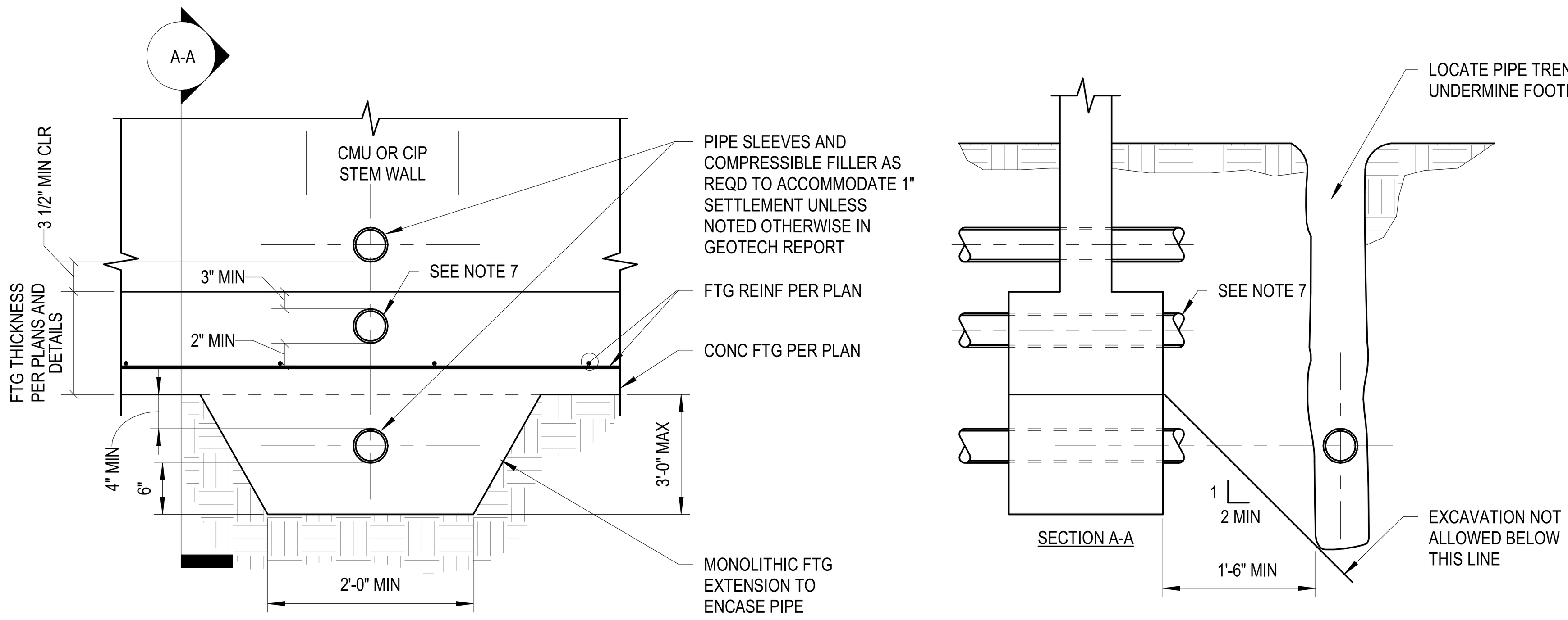
3/4" = 1'-0"

THICKENED SLAB EDGE SCHEDULE			
MARK	DEPTH	WIDTH	REINFORCING
TE08	0'-8"	0'-8"	N/A
TE16	1'-4"	0'-8"	(2)-#5 CONT W/ #5 TRANSVERSE @ 1'-6" OC
TE16A	1'-4"	2'-0"	N/A
TE24	2'-0"	1'-6"	(2)-#5 CONT W/ #5 TRANSVERSE @ 1'-6" OC



Q05 TYPICAL THICKENED SLAB EDGE DETAIL

1" = 1'-0"



NOTES:
1. IF PIPE IS GREATER THAN 4'-0" BELOW BOTTOM OF FOOTING, NO CONCRETE TRENCH SHALL BE REQUIRED.
2. TRENCH WIDTH TO EQUAL FOOTING WIDTH ABOVE.
3. FTG & TRENCH MAY BE POURED MONOLITHICALLY @ CONTRACTORS OPTION.
4. PIPES MAY BE ENCASED BELOW THE FTG, EMBEDDED IN THE FOOTING ABOVE THE REINFORCEMENT, OR THROUGH THE STEM WALL BELOW THE SLAB AS SHOWN.
5. FOR PIPES RUNNING THROUGH FOOTING: PIPE SHALL PASS ABOVE FOOTING REINF, DO NOT BREAK FOOTING REINF, MAINTAIN 3" MIN CONCRETE COVER, MAINTAIN 2" OF CONCRETE BETWEEN PIPE SLEEVE AND REINFORCEMENT, MIN AS SHOWN.
6. FOR PIPES RUNNING PARALLEL TO STRIP FOOTINGS, FOOTING DEPTH AND PIPE LOCATION SHALL BE COORDINATED SO THAT THE PIPE IS NOT WITHIN THE FTG LOAD DISTRIBUTION THAT EXTENDS AT 45 DEGREE ANGLE OUT FROM THE BOTTOM EDGE OF THE FOOTING AS SHOWN.
7. IF CLEARANCES WITHIN FOOTING CANNOT BE ACHIEVED, PIPES AND PIPE SLEEVES MAY NOT BE INSTALLED THROUGH THE FOOTING.

K21 TYP PIPE AND TRENCH LOCATIONS AT FOOTINGS / WALLS

NTS

NOTES:
1. NOTATIONS:
   - db: NOMINAL BAR DIAMETER (INCHES)
   - Ld: TENSION DEVELOPMENT LENGTH (INCHES) FOR REINFORCEMENT SATISFYING THE FOLLOWING REQUIREMENTS:
     - SLABS AND WALLS: CLEAR SPACING > 2db, AND CONCRETE CLEAR COVER > db
     - BEAMS AND COLUMNS: CLEAR SPACING > db, AND CONCRETE CLEAR COVER > db
   - Lt: DEVELOPMENT LENGTH OF BARS IN THICK CONCRETE = 1.3 X Ld (INCHES)
   - Lb: DEVELOPMENT LENGTH OF BARS OR DOWELS IN COMPRESSION = 19 X db (INCHES)
   - Lc: TIED COLUMN LAP SPLICE IN COMPRESSION = 30 X db (INCHES)
   - Lcs: SPIRAL COLUMN LAP SPLICE IN COMPRESSION = 22.5 X db (INCHES)
   - Ls: TYPICAL LAP SPLICE LENGTH = 1.3 X Ld (INCHES)
   - Lsb: LAP SPLICE LENGTH OF HORIZONTAL BARS IN THICK CONCRETE = 1.69 X Ld (INCHES)
2. MULTIPLY VALUES IN THE TABLE BY 1.5 IF CLEAR SPACING OR CONCRETE COVER DO NOT MEET THE REQUIREMENTS FOR Ld IN NOTE 1.
3. MULTIPLY VALUES IN THE TABLE BY 1.5 IF CLEAR SPACING OR CONCRETE COVER DO NOT MEET THE REQUIREMENTS FOR Ld IN NOTE 1.
4. "HORIZONTAL BARS IN THICK CONCRETE" REFERS TO BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW. THIS INCLUDES BEAMS, SLABS, FOUNDATIONS, AND WALLS.
5. THE DEVELOPMENT AND SPLICE LENGTHS ARE BASED ON REINFORCEMENT STRENGTH Fy = 60 KSI.
6. #14 AND #18 BARS SHALL NOT BE LAP SPLICED. SEE "GENERAL NOTES"
7. MULTIPLY VALUES IN THE TABLE BY 1.3 FOR USE WITH LIGHTWEIGHT AGGREGATE CONCRETE.

f'c = 3,000 PSI				
BAR SIZE	Ld	Lt	Ls	Lsb
#3	17	22	22	28
#4	22	29	29	38
#5	28	36	36	47
#6	33	43	43	56
#7	48	63	63	81
#8	55	72	72	93
#9	62	81	81	105
#10	70	91	91	118
#11	78	101	101	131
#14	93	121	--	--
#18	124	161	--	--

f'c = 4,000 PSI				
BAR SIZE	Ld	Lt	Ls	Lsb
#3	15	19	19	25
#4	19	25	25	33
#5	24	31	31	41
#6	29	37	37	49
#7	42	54	54	71
#8	48	62	62	81
#9	54	70	70	91
#10	61	79	79	102
#11	67	87	87	114
#14	81	105	--	--
#18	108	140	--	--

f'c = 4,500 PSI				
BAR SIZE	Ld	Lt	Ls	Lsb
#3	14	18	18	23
#4	18	24	24	31
#5	23	30	30	38
#6	27	35	35	46
#7	40	51	51	67
#8	45	59	59	76
#9	51	66	66	86
#10	56	73	73	95
#11	62	80	80	104
#14	79	102	--	--
#18	101	131	--	--

K11 CONCRETE DEVELOPMENT LENGTH SCHEDULE

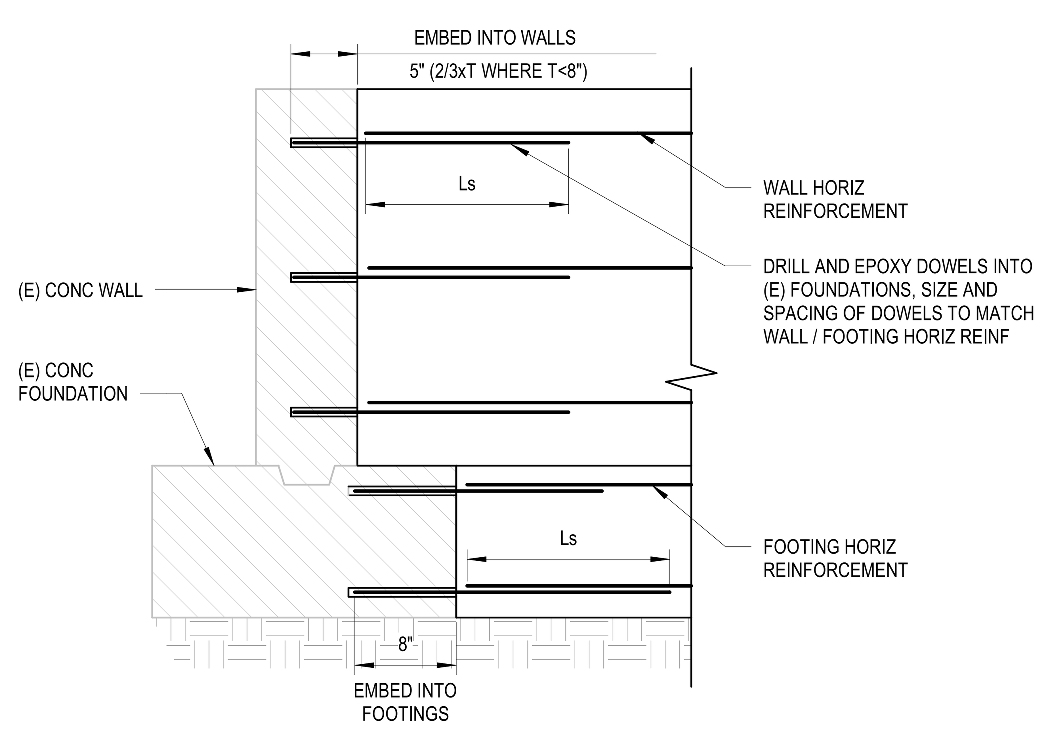
3/4" = 1'-0"

CONC WALL REINF SCHEDULE				
MARK	WALL THICKNESS	VERT BARS	HORIZ BARS	LOCATION
C8A	8"	#5 @ 18" OC	#5 @ 18" OC	CENTERLINE

NOTES:
1. CONCRETE WALLS SHALL HAVE THE MINIMUM REINFORCING SHOWN IN THE TABLE, UNO.
2. LAP WALL REINFORCING Ls AT SPLICES.
3. ALL VERTICAL REINFORCING IN CONCRETE WALLS SHALL BE CONTINUOUS FROM STRUCTURAL FLOOR TO STRUCTURAL FLOOR, OR FROM FOUNDATION TO FIRST STRUCTURAL FLOOR ABOVE, UNO.
4. START HORIZONTAL AND VERTICAL BARS TWO INCHES CLEAR OF EDGE OF OPENINGS, SPACE REINFORCING BARS AT EQUAL SPACES NOT TO EXCEED REQUIRED SPACING.

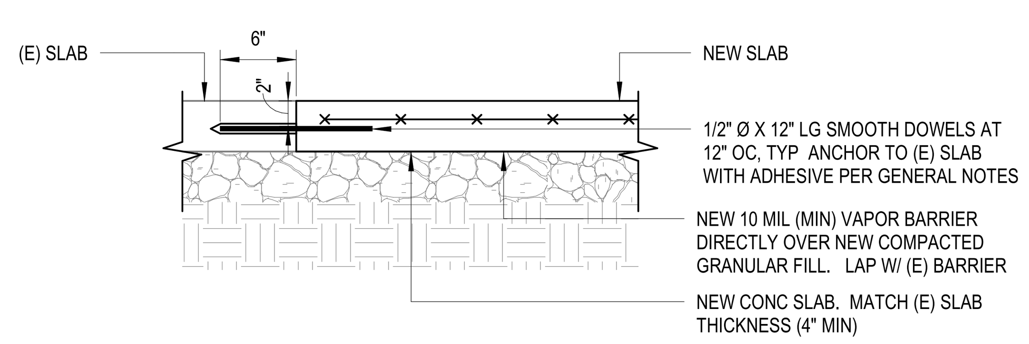
K04 TYP CONC WALL REINF SCHEDULE

SCALE: NTS



E21 TYP NEW TO EXISTING FOUNDATION DOWELS

1" = 1'-0"



G16 TYPICAL CONCRETE SLAB JOIN

1" = 1'-0"

DIA
Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

CHARLES JOHNSON REGISTERED ENGINEER AGRICULTURE COMMERCE No. 123273 STATE OF TENNESSEE 04/01/2024

CONSTRUCTION DOCUMENTS

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37607

NO.	DESCRIPTION	DATE

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SHEET DESCRIPTION

TYPICAL CONCRETE DETAILS

S005

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE. 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 23098

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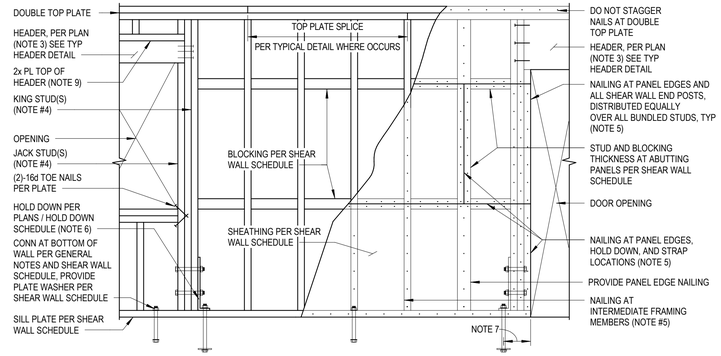


NOTES:
1. THIS DIAGRAM IS TO BE USED IN CONJUNCTION WITH DETAILS ON THIS SHEET.
2. UNLESS NOTED OTHERWISE, NAILING SHALL CONFORM TO IBC TABLE 2304.9.1.
3. KING AND JACK STUDS PER SCHEDULE, NAILED TOGETHER PER BUNDLED STUD SCHEDULE.
4. NAILING REQUIREMENTS PER SHEAR WALL SCHEDULE.
5. LOCATE HOLD DOWNS AS CLOSE TO THE END OF THE SHEAR WALL AS POSSIBLE. NOTIFY ENGINEER IF LOCATED MORE THAN 10 INCHES FROM EDGE OF WALL.
6. ANCHOR BOLT LAYOUT STARTS 4" MIN, 12" MAX FROM EACH END OF THE CONCRETE WALL WITH 2 BOLTS, MINIMUM, PER WALL. 7" EMBED HOLD DOWN ANCHORS MAY BE COUNTED AS ANCHOR BOLTS.
7. SEE TYPICAL STRUCTURAL WALL INTERSECTION DETAIL FOR WALL CORNERS AND INTERSECTIONS.

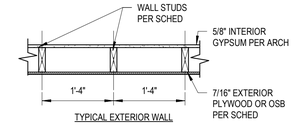
Q21 TYPICAL STRUCTURAL WOOD STUD WALL ELEVATION
3/4" = 1'-0"

WOOD STUD WALL SCHEDULE

MARK	STUD SIZE & SPACING
WS4A	2X4 @ 16" OC
WS6A	2X6 @ 16" OC

STUD WALL FRAMING NOTES:

1. THIS WALL SCHEDULE APPLIES ONLY TO STRUCTURAL BEARING AND SHEAR WALLS.
2. STUD SIZE AND SPACING IS BASED ON NO1/NO2 GRADE SPRUCE PINE FIR MATERIAL WITH THE FOLLOWING PROPERTIES:
3. Fb = 875 psi, Fc = 1150 psi, E = 1400 ksi
4. ALL EXTERIOR, BREEZEWAY, AND SHARED TENANT WALLS ARE CONSIDERED STRUCTURAL AND SHALL BE CONSTRUCTED BY THIS SCHEDULE.
5. WHERE ARCHITECTURAL STUD REQUIREMENTS CONFLICT WITH THIS SCHEDULE, THE MORE RESTRICTIVE SHALL APPLY.
6. ALL STUD WALLS, STRUCTURAL AND NON-STRUCTURAL, SHALL BE FRAMED AT A MINIMUM WITH 2X4 STUDS @ 16" OC, TYP



TYPICAL EXTERIOR WALL

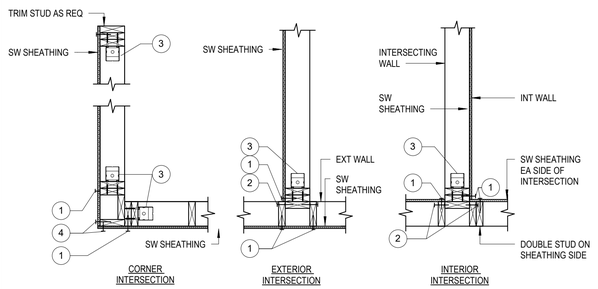
Q11 WOOD WALL STUD SCHEDULE
3/4" = 1'-0"

TYPICAL EXTERIOR AND BEARING WALL STRAPPING

LOCATION	FASTENER
TOP PLATE STRAP TO STUDS EXTERIOR AND INTERIOR LOAD BEARING WALLS AT ROOF (NOTE 4)	SPH6 @ 48" OC
KING STUDS TO WALL TOP PLATES	SPH6 @ EA STUD
KING STUDS TO SILL PLATE	RSP4 @ EACH STUD
SILL PLATE TO FOUNDATION AT EXTERIOR & INTERIOR LOAD BEARING WALLS (NOTES 2,3)	5/8" Ø BOLT @ 48" OC, MAX, 4" EMBED
TOP PLATE STRAP TO STUDS EXTERIOR AND INTERIOR NON LOAD BEARING WALLS AT ROOF (NOTE 4)	SPH6 @ 128" OC

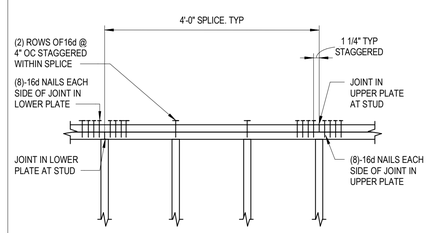
NOTES:
1. ALL CONNECTORS LISTED ARE SIMPSON STRONG-TIE. STRUCTURAL CONNECTORS WITH EQUIVALENT OR GREATER LOAD CAPACITIES MAY BE USED AT CONTRACTORS OPTION. ALTERNATE CONNECTORS MUST BE SUBMITTED TO EOR FOR APPROVAL. SCREW & NAIL SIZE AND NUMBER SHALL BE IN ACCORDANCE WITH MANUFACTURER'S CATALOG.
2. ANCHOR BOLTS SHALL BE CAST-IN-PLACE, SCREW ANCHORS, OR ADHESIVE ANCHORS AND EMBEDMENT SHALL BE MEASURED TO THE TOP SIDE OF THE EMBEDDED NUT. LOCATE ANCHOR BOLTS WITHIN 12" OF ENDS OF WALLS.
3. ALIGN TOP PLATE AND SILL PLATE FASTENERS SO THAT THEY EACH FALL ON THE SAME STUD AT TOP & BOTTOM, TYP
4. UNLESS OTHERWISE NOTED ON PLANS OR IN DETAILS USE FASTENERS SHOWN IN SCHEDULE WHERE CONNECTION IS NOT SPECIFIED.

Q06 TYPICAL EXTERIOR & BEARING WALL STRAPPING
3/4" = 1'-0"



1. PLYWOOD OR OSB PANEL EDGE NAILING PER SHEAR WALL SCHEDULE
2. NAILING TO MATCH SHEAR WALL SCHEDULE SPACING
3. HOLD DOWN AND END POST STUDS PER SHEARWALL SCHEDULE AND PLANS.
4. NAIL SHEATHING TO TRIM STUDS W/ 8d NAILS @ 12" OC, TYP

K21 TYPICAL WALL INTERSECTION
3/4" = 1'-0"



NAILED SPLICE

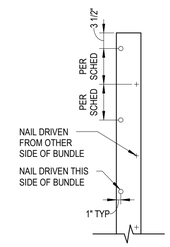
NOTES:
1. PROVIDE CONT TOP PLATES (NO JOINTS) WHERE WALLS ARE 12'-0" OR LESS IN LENGTH.

K15 TYPICAL TOP PLATE SPLICE
3/4" = 1'-0"

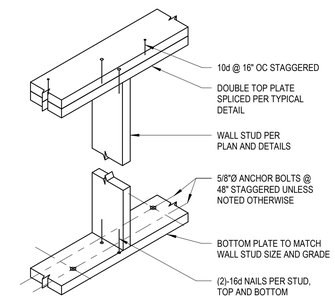
BUNDLED STUD SCHEDULE

# OF STUDS	STUD SIZE	FACE NAILING FOR BUNDLED STUDS
2	2x	10d @ 6" OC STAGGERED ALT FACE
3	2x	20d @ 8" OC STAGGERED ALT FACE
4	2x	20d @ 8" OC STAGGERED ALT FACE

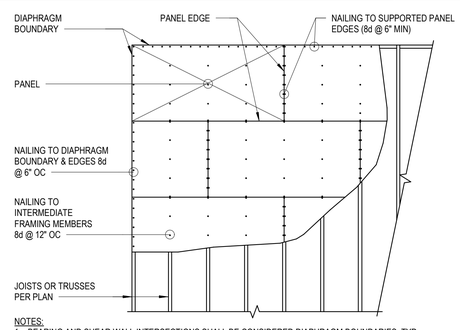
NOTES:
1. AS ALTERNATE TO BUNDLED STUD NAILING FOR BUNDLES OF 3 OR MORE, STUDS MAY BE BUNDLED PER 2 STUDS WITH 10d @ 6" OC STAGGERED FOR EACH ADDITIONAL STUD.
2. ALL BUNDLED STUDS SHALL BE CONSIDERED AS ONE STUD IN ALL DETAILS THAT CALL FOR A "NUMBER OF STUDS".



K11 BUNDLED STUD SCHEDULE
3/4" = 1'-0"

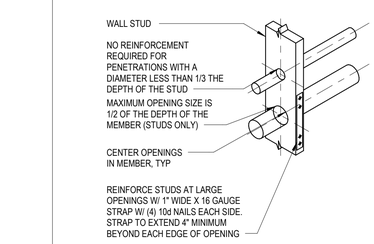


K06 TYP WOOD WALL STUD ANCHORAGE
1" = 1'-0"



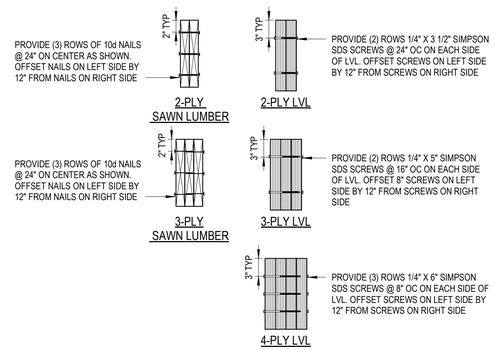
NOTES:
1. BEARING AND SHEAR WALL INTERSECTIONS SHALL BE CONSIDERED DIAPHRAGM BOUNDARIES, TYP
2. ROOF SHEATHING PANELS SHALL BE STAGGERED AS SHOWN WITH LONG DIRECTION OF SHEATHING PERPENDICULAR TO TRUSSES OR JOISTS. SEE SHEARWALL SCHEDULE FOR WALL SHEATHING PANEL ORIENTATION.

E21 TYPICAL ROOF SHEATHING LAYOUT
3/4" = 1'-0"

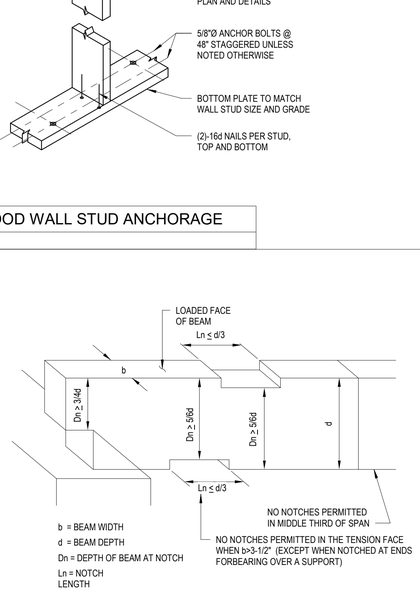


NOTES:
1. NO MORE THAN ONE PENETRATION EVERY 2'-0" VERTICAL ALONG MEMBER LENGTH.
2. CARE SHALL BE TAKEN NOT TO SPLINTER MEMBER WHERE DRILL BIT WILL EMERGE.
3. ANY MEMBERS WITH SPLITS ORIGINATING FROM PENETRATION SHALL BE REPLACED.

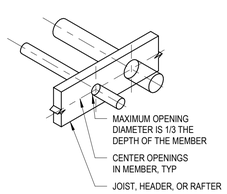
E16 TYP WALL STUD PENETRATION DETAILS
1" = 1'-0"



E12 TYP BUILT-UP WOOD BEAM CONNECTIONS
1" = 1'-0"

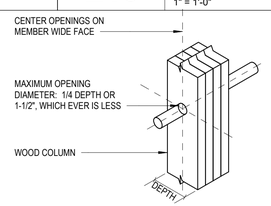


E05 TYP NOTCH LIMITATIONS FOR SAWN LUMBER
3/4" = 1'-0"



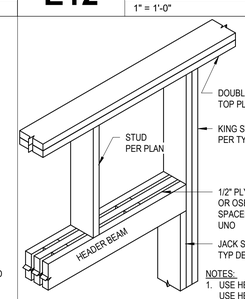
NOTE: DETAIL ONLY APPLIES TO SAWN LUMBER. DETAIL DOES NOT APPLY TO HEAVY TIMBER OR ENGINEERED LUMBER (LSL, LVL, PSL, OR I-JOIST)

A21 TYPICAL WOOD JOIST PENETRATION
1" = 1'-0"



NOTES:
1. BUILT-UP COLUMNS: NO MORE THAN ONE PENETRATION EVERY 2'-0" VERTICAL ALONG MEMBER LENGTH.
2. PSL COLUMNS: ONE PENETRATION EACH FLOOR.
3. CARE SHALL BE TAKEN NOT TO SPLINTER MEMBER WHERE DRILL BIT WILL EMERGE.
4. IN NO CASE SHALL PENETRATIONS OCCUR THROUGH STEEL COLUMNS WITHOUT WRITTEN CONSENT FROM ENGINEER .
5. SPECIAL CARE SHALL BE TAKEN WITH PSL COLUMNS TO LOCATE PENETRATION DIRECTLY THROUGH CENTER OF MEMBER AND TO PREVENT DAMAGE DURING DRILLING.
6. ANY MEMBERS WITH SPLITS ORIGINATING FROM PENETRATION SHALL BE REPLACED.

A17 TYPICAL WOOD COLUMN PENETRATION DETAIL
1" = 1'-0"

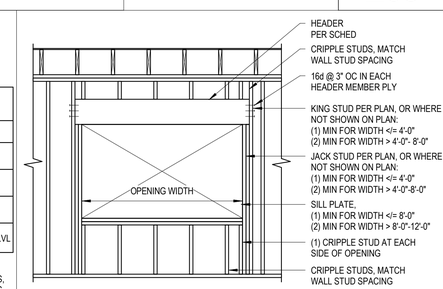


HEADER SCHEDULE

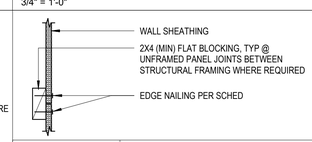
OPENING WIDTH	HEADER SIZE
UP TO 4'-0"	(3) 2x8
4'-0" TO 6'-0"	(3) 2x10
6'-0" TO 8'-0"	(3) 2x12
8'-0" TO 11'-0"	(3) 1 3/4"x 11 1/4" LVL

NOTES:
1. USE HEADER BEAMS OF 3 MEMBERS IN 6" STUD WALLS, USE HEADER BEAMS OF 2 MEMBERS IN 4" STUD WALLS.
2. ALL HEADERS SHALL BE #2 SYP WOOD UNO

A12 TYPICAL HEADER SCHEDULE
3/4" = 1'-0"



A08 TYPICAL HEADER DETAIL
3/8" = 1'-0"



C04 TYPICAL FLAT BLOCKING DETAIL
1 1/2" = 1'-0"

DIA Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

CHARLES JOHNSON REGISTERED ENGINEER No. 120217 STATE OF TENNESSEE 04/01/2024

CONSTRUCTION DOCUMENTS
HERITAGE PARK ADDITION
115 DURHAM DR, MAYNARDVILLE, TN 37607

NO.	DESCRIPTION	DATE

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SHEET DESCRIPTION
TYPICAL WOOD DETAILS

S006

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE. 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 23098

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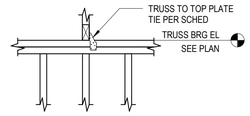
CONNECTION	NAIL	LOCATION
JOIST TO SILL OR GIRDER	(3) - 8d COMMON	TOE NAIL
BRIDGING TO JOIST	(2) - 8d COMMON	TOE NAIL EACH END
1" X 6" SUBFLOOR OR LESS TO EACH JOIST	(2) - 8d COMMON	FACE NAIL
WIDER THAN 1" X 6" SUBFLOOR TO EACH JOIST	(3) - 8d COMMON	FACE NAIL
2" SUBFLOOR TO JOIST OR GIRDER	(2) - 16d COMMON	BLIND & FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING	16d COMMON @ 16" OC	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING @ BRACED WALL PANEL	(3) - 16d COMMON @ 16" OC	BRACED WALL PANELS
TOP PLATE TO STUD	(2) - 16d COMMON	END NAIL
STUD TO SOLE PLATE	(4) - 8d COMMON	TOE NAIL
STUD TO SOLE PLATE	(2) - 16d COMMON	END NAIL
DOUBLED STUDS	16d (3 1/2" x 0.135") @ 24" OC	FACE NAIL
DOUBLED TOP PLATE	16d (3 1/2" x 0.135") @ 16" OC	TYPICAL FACE NAIL
DOUBLED TOP PLATE	(8) - 16d COMMON	LAP SPLICE
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	(3) - 8d COMMON	TOE NAIL
RIM JOIST TO TOP PLATE	8d (2 1/2" x 0.131") @ 6" OC	TOE NAIL
TOP PLATES, LAPS AND INTERSECTIONS	(2) - 16d COMMON	FACE NAIL
CONTINUOUS HEADER, TWO PIECES	16d COMMON @ 16" OC	ALONG EDGE
CEILING JOISTS TO PLATE	(3) - 8d COMMON	TOE NAIL
CONTINUOUS HEADER TO STUD	(4) - 8d COMMON	TOE NAIL
CEILING JOISTS, LAPS OVER PARTITIONS	(3) - 16d COMMON	FACE NAIL (SEE TABLE 2304.10.1)
CEILING JOISTS TO PARALLEL RAFTERS	(3) - 16d COMMON	FACE NAIL (SEE TABLE 2304.10.1)
RAFTER TO PLATE	(3) - 8d COMMON	TOE NAIL
1" DIAGONAL BRACE TO EACH STUD AND PLATE	(2) - 8d COMMON	FACE NAIL
1" X 8" SHEATHING TO EACH BEARING	(3) - 8d COMMON	FACE NAIL
WIDER THAN 1" X 8" SHEATHING TO EACH BEARING	(3) - 8d COMMON	FACE NAIL
BUILT-UP CORNER STUDS	16d COMMON @ 24" OC	FACE NAIL
BUILT-UP GIRDER AND BEAMS	20d COMMON @ 32" OC	FACE NAIL AT TOP AND BOT STAGGERED ON OPPOSITE SIDES
	(2) - 20d COMMON	FACE NAIL AT ENDS AND AT EACH SPLICE
2" PLANKS	16d COMMON	AT EACH BEARING
COLLAR TIE TO RAFTER	(3) - 10d COMMON	FACE NAIL
JACK RAFTER TO HIP	(3) - 10d COMMON	TOE NAIL
	(2) - 16d COMMON	FACE NAIL
ROOF RAFTER TO 2-BY RIDGE BEAM	(2) - 16d COMMON	FACE OR TOE NAIL
JOIST TO BAND JOIST	(3) - 16d COMMON	FACE NAIL

NOTES:
1. USE NAILING SHOWN UNLESS NOTED OTHERWISE ELSEWHERE IN THESE DRAWINGS.
2. WHERE NAILING SHOWN DIFFERS FROM OTHER NAILING REQUIREMENTS IN THESE DRAWINGS OR NAILING REQUIREMENTS IN THE BUILDING CODE, USE MORE STRINGENT REQUIREMENT.

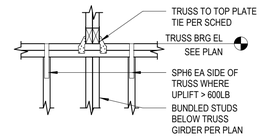
K21 TYPICAL NAILING SCHEDULE
3/4" = 1'-0"

ROOF TRUSS FASTENER SCHEDULE											
UPLIFT	MIN BUNDLED STUDS BELOW BEARING	MIN # OF TRUSS PLIES	TRUSS TO TOP PLATE TIE	TRUSS ANCHORAGE TYPE	TIE TO STUDS BELOW	FLR-FLR TIE	# FLOORS REQUIRED (NOTE 8)	TIE TO FOUNDATION	FASTENERS TO TRUSS	FASTENERS TO WALL TOP PLATES	FASTENERS TO STUDS BELOW	FOUNDATION ANCHOR (NOTE 7)
<600#	NOT REQUIRED	1	H2.5A	1	NOT REQUIRED	NOT REQUIRED	0	NOT REQUIRED	(5) - 8d	(5) - 8d	NOT REQUIRED	NOT REQUIRED
<1200#	NOT REQUIRED	1	(2)-H2.5A (NOTE 2)	2	SPH6 EACH SIDE OF BRG	NOT REQUIRED	0	NOT REQUIRED	(10) - 8d	(10) - 8d	NOT REQUIRED	NOT REQUIRED

NOTES:
1. PROVIDE APPLICABLE HGT FASTENER ACCORDING TO NUMBER OF TRUSS PLIES AND STAGGER HDU-5 HOLD DOWNS TO AVOID SCREW INTERFERENCE ON EACH SIDE OF BUNDLED STUD POST.
2. WHERE TWO FASTENERS ARE CALLED FOR, INSTALL ONE ON EACH SIDE OF WALL TOP PLATES.
3. BOLTS CONNECT TIE ABOVE PLATES TO TIE BELOW PLATES. USE SPECIFIED BOLT TO CONNECT FLR-FLR TIES.
4. ALL CONNECTORS LISTED ARE SIMPSON STRONG-TIE. STRUCTURAL CONNECTORS WITH EQUIVALENT OR GREATER LOAD CAPACITIES MAY BE USED AT CONTRACTORS OPTION. ALTERNATE CONNECTORS MUST BE SUBMITTED TO EOR FOR APPROVAL.
5. SCREW & NAIL SIZE AND NUMBER SHALL BE IN ACCORDANCE WITH MANUFACTURER'S CATALOG.
6. ROOF TRUSS CLIPS SHALL BE SELECTED TO PROVIDE THE UPLIFT RESISTANCE SHOWN ON THE ROOF TRUSS SHOP DRAWINGS AND CALCULATIONS.
7. ANCHORS TO FOUNDATION TO BE HILTI HY200 ADHESIVE ANCHORS WITH HILTI HAS-E RODS. WHERE DISTANCE FROM BOLT CENTERLINE TO EDGE OF CONCRETE IS LESS THAN 3 1/8" EMBEDMENT SHALL BE INTO THE FOOTING BELOW. AT LOCATIONS WITH AN ANCHOR ON EACH SIDE OF THE BUNDLED STUDS, THE EMBEDMENT SHALL BE INTO THE FOOTING BELOW.
8. FLR-FLR STRAPS SHALL BE UTILIZED ACROSS THE NUMBER OF FLOORS INDICATED. WHERE THE NUMBER OF FLOORS INDICATED EXCEEDS THE HEIGHT OF THE BUILDING, ANCHOR TO THE FOUNDATION PER THE SCHEDULE. WHERE THE BUILDING HEIGHT EXCEEDS THE NUMBER OF FLOORS INDICATED, THE FLR-FLR STRAPS MAY TO TERMINATED AFTER THE NUMBER OF FLOORS INDICATED IS SURPASSED, AND THE FOUNDATION ANCHOR MAY BE ELIMINATED.



ANCHORAGE TYPE 1

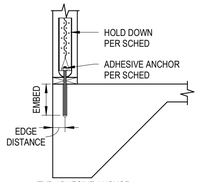


ANCHORAGE TYPE 2

Q16 ROOF TRUSS FASTENER SCHEDULE
3/4" = 1'-0"

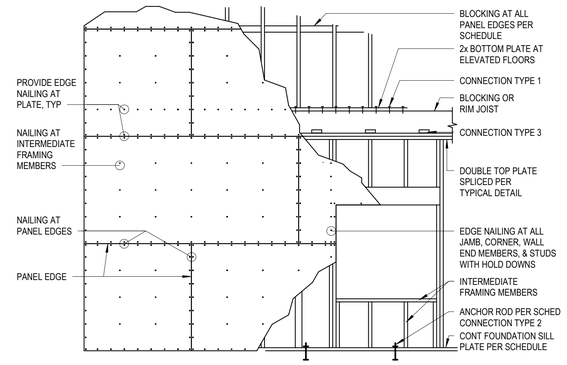
HOLD DOWN SCHEDULE, ANCHOR BOLT TYPES AND INSTALLATION CRITERIA							
HOLD DOWN MARK		WOOD POST AND CONNECTION		HOLD DOWN CAPACITY	ANCHOR SIZE	ADHESIVE ANCHOR TO FND	
MARK	HOLD DOWN TYPE	HOLD DOWN WOOD POST (5)	WOOD FASTENERS	DESIGN FORCE	DIAMETER (IN)	EMBED (IN)	EDGE DISTANCE (IN)
A	HDU2-SDS2.5	(2) 2x	6-SDS 1/4x2.5	2,215	5/8	9	2-3/4

NOTES:
1. INSTALL HOLD DOWNS PER MANUFACTURER'S SPECIFICATIONS AND ICC REPORTS. INFORMATION TAKEN FROM THE SIMPSON C-2021 CATALOG.
2. THE CONTRACTOR SHALL MATCH THE WIDTH OF THE STUD WALLS SHOWN ON THE ARCH DRAWINGS. MULTIPLE STUDS SHALL BE NAILED TOGETHER PER TYPICAL BUNDLED STUD SCHEDULE.
3. SEE SHEAR WALL SCHEDULE DETAIL FOR SHEATHING EDGE NAILING REQUIREMENTS AT HOLD DOWN POSTS.
4. THIS SCHEDULE ASSUMES 3,000 PSI CONCRETE OR BETTER.
5. HOLD DOWN WOOD POSTS ABOVE ARE MINIMUM. SEE PLAN FOR ADDITIONAL POSTS.
6. END POSTS ARE TO BE FULL HEIGHT AND MAY REPLACE IN ADDITION TO KING STUDS REQUIRED PER TYPICAL DETAILS.



TYP ADHESIVE ANCHOR

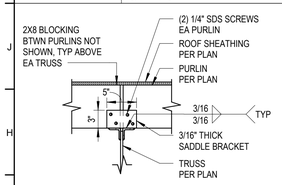
Q07 HOLD DOWN SCHEDULE
3/4" = 1'-0"



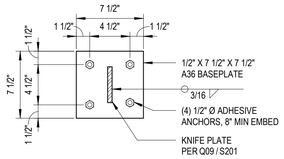
VALID FOR DIMENSIONAL LUMBER PROJECT			SPRUCE PINE FIR STUD SHEAR WALL SCHEDULE					(ALL VALUES BASED ON 2012 IBC, ASD METHODS)
	FRAMING REQUIREMENTS		NAILING REQUIREMENTS		WALL BOTTOM PLATE CONNECTION		CONN TO TOP PLATE	
SHEAR WALL TYPE	SHEATHING (NOTES 1,2)	FDN SILL PLATE, WALL STUDS OCCURRING AT ABUTTING PANEL EDGES, & BLOCKING (NOTES 4,5,6)	PANEL EDGES (NOTES 7,8)	INTERMEDIATE FRAMING MEMBERS	SILL TO WOOD FRAMING BELOW (CONNECTION TYPE 1)	SILL TO CONCRETE BELOW (CONNECTION TYPE 2) (NOTES 9)	WALL TOP PLATE TO FRAMING ABOVE (CONNECTION TYPE 3) (NOTE 10)	CAPACITY (PLF)
SW6	7/16" SHEATHING 1 SIDE	2x	8d @ 6" OC	8d @ 12" OC	16d @ 8" OC	5/8" Ø x 7" EMBED AB @ 48" OC	CLIPS @ 24" OC	239

NOTES:
1. SHEATHING TO BE APPLIED WITH THE LONG PANEL DIMENSION PERPENDICULAR TO WALL STUDS.
2. USE 15/32" SHEATHING IF PANELS ARE INSTALLED WITH LONG DIMENSION PARALLEL TO WALL STUDS.
3. PANEL JOINTS ON OPPOSITE SIDES OF THE WALL SHALL NOT OCCUR AT THE SAME FRAMING MEMBER.
4. IN LIEU OF 3x MEMBERS, DOUBLE 2x MEMBERS MAY BE USED WHEN NAILED TOGETHER PER 'WALL BOTTOM PLATE TO WOOD FRAMING BELOW'.
5. WALL STUDS NOT OCCURRING AT ABUTTING PANEL EDGES MAY BE 2x.
6. WALL BOTTOM PLATES OCCURRING ABOVE WOOD FRAMING MAY BE 2x.
7. STAGGER NAILS AT ABUTTING PANEL EDGES.
8. INSTALL BLOCKING AT PANEL EDGES NOT OCCURRING AT STUDS OR PLATES.
9. ANCHOR BOLTS SHALL BE CAST-IN-PLACE, ADHESIVE, OR SCREW-ANCHOR TYPE CONNECTORS AND EMBEDMENT SHALL BE MEASURED TO THE TOP SIDE OF THE EMBEDDED NUT. LOCATE ANCHOR BOLTS WITHIN 8" OF ENDS OF WALLS.
10. FRAMING CLIPS SHALL BE SIMPSON A35, SIMPSON LTP5, OR APPROVED EQUAL.
11. DO NOT OVER DRIVE NAILS. REFER TO GENERAL NOTES.

K16 SHEAR WALL SCHEDULE - SPRUCE-PINE-FIR
3/4" = 1'-0"



G21 TYP PURLIN SPLICE DETAIL
1" = 1'-0"



G18 TYP TIMBER POST BASEPLATE
1 1/2" = 1'-0"

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CHARLES JOHNSON REGISTERED ENGINEER No. 120275 STATE OF TENNESSEE 04/01/2024

CONSTRUCTION DOCUMENTS
HERITAGE PARK ADDITION
115 DURHAM DR, MAYNARDVILLE, TN 37607

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SHEET DESCRIPTION
TYPICAL WOOD DETAILS

S007

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

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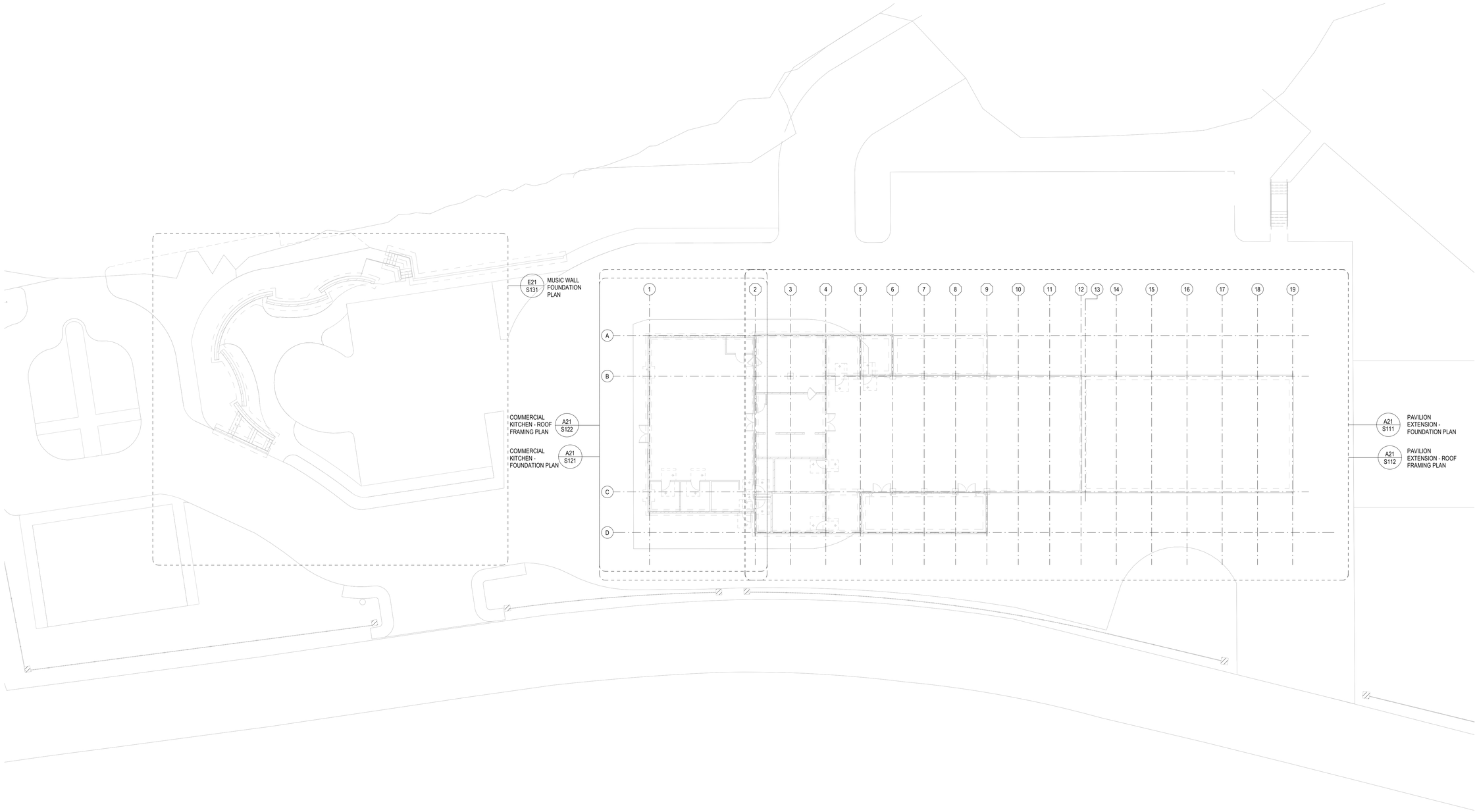

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CHARLES JOHNSON
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No. 120174
STATE OF TENNESSEE
04/01/2024

CONSTRUCTION DOCUMENTS

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37607

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SHEET DESCRIPTION

OVERALL SITE PLAN

S100

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

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STRUCTURAL GROUP
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A21 OVERALL SITE PLAN
1/16" = 1'-0"

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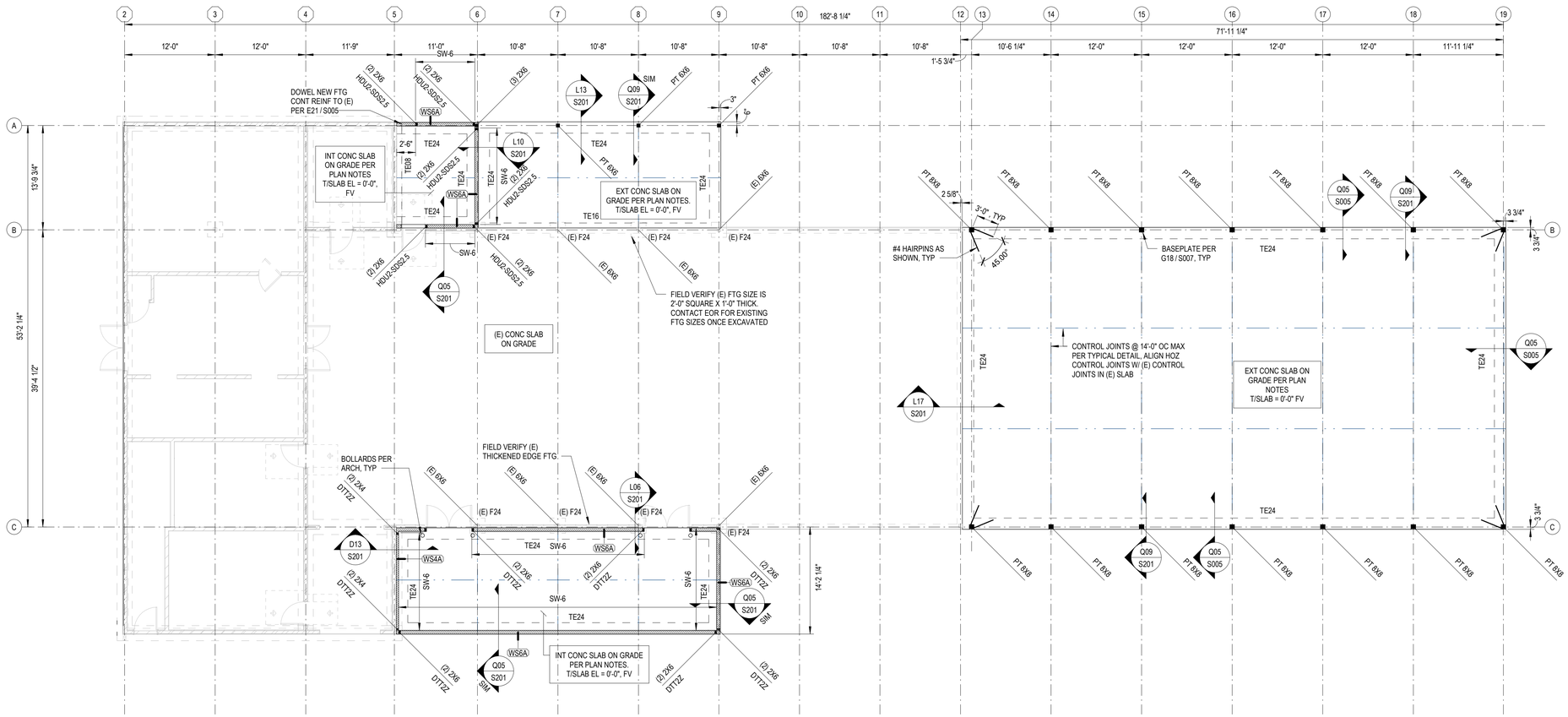

FOUNDATION PLAN NOTES:

1. ELEVATIONS ARE BASED ON A REFERENCE FLOOR ELEVATION OF 0'-0", UNO. TOP OF SLAB ON GRADE IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE.
2. ASSUMED (E) T/SLAB ELEVATION = 0'-0". FIELD VERIFY ALL (E) TOP OF FOOTING ELEVATIONS.
3. T/ INTERIOR FOOTING ELEVATION = -0'-8", TYP, UNO
4. T/ EXTERIOR FOOTING ELEVATION = -1'-4", TYP, UNO
5. INTERIOR SLAB ON GRADE IS 4 INCHES THICK AND REINFORCED WITH WWF 6X6 W2.1XW2.1. SLAB ON GRADE SHALL BE PLACED OVER A VAPOR BARRIER AND 4 INCHES (MIN) COMPACTED GRANULAR FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. SEE TYPICAL SLAB ON GRADE DETAILS FOR MORE INFORMATION.
6. EXTERIOR SLAB ON GRADE IS 4 INCHES THICK AND REINFORCED WITH WWF 6X6 W2.1XW2.1. SLAB ON GRADE SHALL BE PLACED OVER 4 INCHES (MIN) COMPACTED GRANULAR FILL. SEE TYPICAL SLAB ON GRADE DETAILS FOR MORE INFORMATION.
7. ( ) INDICATES TOP OF FOOTING ELEVATION AT NON-TYPICAL LOCATIONS.
8. "F60" INDICATES COLUMN OR ISOLATED SPREAD FOOTING MARK. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
9. "W24" INDICATES WALL OR CONTINUOUS FOOTING MARK. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
10. "TS24' & 'TF24' INDICATE THICKENED SLAB AREAS TO BE POURED MONOLITHICALLY WITH SLAB ON GRADE. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
11. 'TE' DENOTES TURN-DOWN SLAB EDGE. SEE TYPICAL DETAIL FOR SIZE AND REINFORCING.
12. FOR ELEVATIONS, WALL SECTIONS, AND DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
13. FOR SIDEWALKS, PAVING, AND SITE DETAILS AT THE BUILDING EXTERIOR, SEE ARCHITECTURAL AND CIVIL DRAWINGS.
14. SEE A08 / S006 FOR TYPICAL JACK/KING STUD SCHEDULE.

COLUMN FOOTING SCHEDULE

MARK	LENGTH	WIDTH	DEPTH	REINFORCEMENT
F48	4'-0"	4'-0"	1'-0"	(5)-#5 EW BTM

WALL FOOTING SCHEDULE

MARK	WIDTH	DEPTH	REINFORCEMENT
W24	2'-0"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
W24A	2'-0"	1'-0"	(3)-#5 CONT W/ #5 X 2'-6" TRANS @ 1'-6" OC
W42	3'-6"	1'-0"	(4)-#5 CONT W/ #5 X 3'-0" TRANS @ 1'-6" OC TOP & BTM
W48	4'-0"	1'-0"	(4)-#5 CONT W/ #5 X 3'-6" TRANS @ 1'-6" OC TOP & BTM

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A21 FOUNDATION PLAN - PHASE 1 - PAVILLION EXTENSION
1/8" = 1'-0"

FOUNDATION PLAN NOTES
NOT TO SCALE

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CHARLES JOHNSON REGISTERED ENGINEER No. 120175 STATE OF TENNESSEE 04/01/2024

CONSTRUCTION DOCUMENTS
HERITAGE PARK ADDITION
115 DURHAM DR, MAYNARDVILLE, TN 37607

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SHEET DESCRIPTION
FOUNDATION PLAN - PAVILION EXTENSION

S111

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

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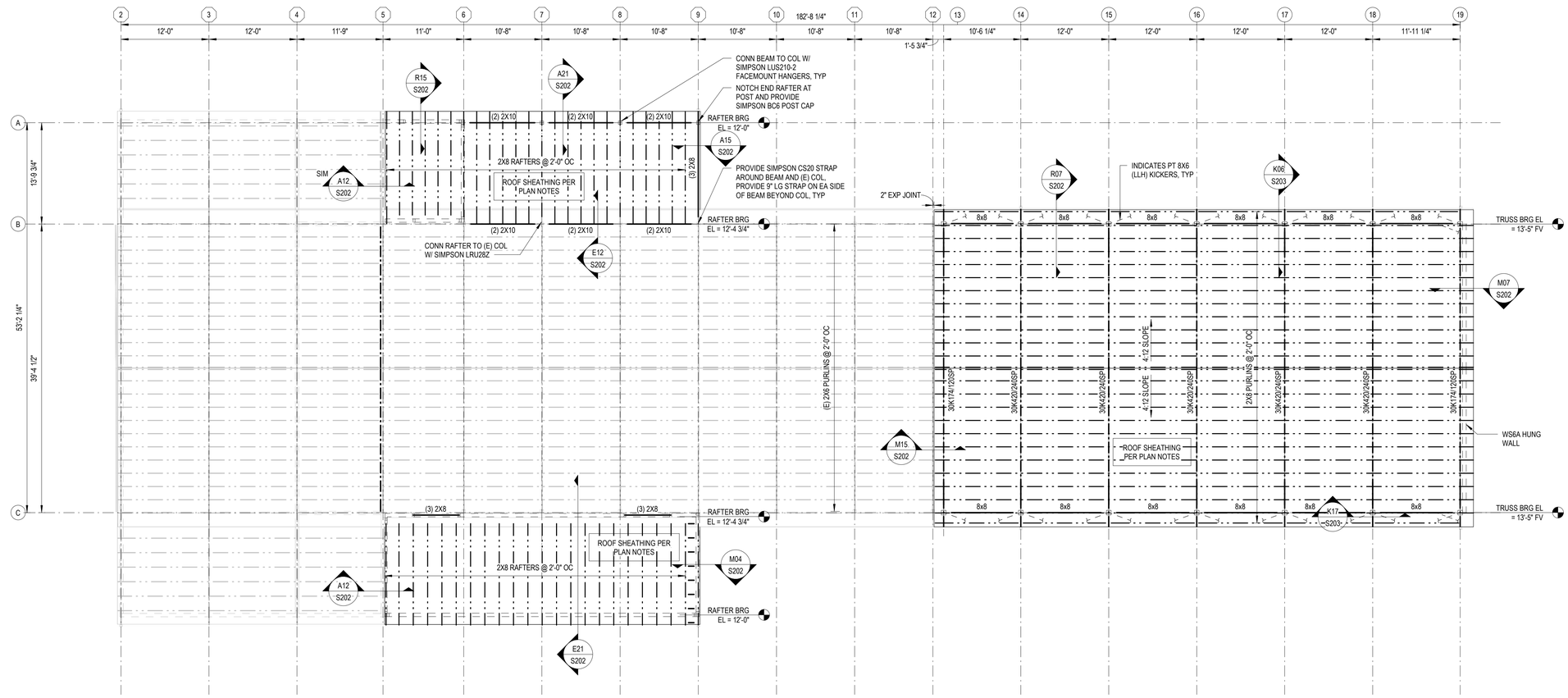

ROOF FRAMING PLAN NOTES:

1. ELEVATIONS ARE BASED ON A REFERENCE FLOOR ELEVATION OF 0'-0", UNO. TOP OF SLAB ON GRADE BELOW IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE.
2. WOOD ROOF SHEATHING SHALL BE 19/32" UNO. SEE GENERAL NOTES FOR MORE INFORMATION. SEE TYPICAL DETAIL FOR ATTACHMENT AND LAYOUT REQUIREMENTS. BLOCKING IS NOT REQUIRED UNLESS NOTED IN DETAILS. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
3. SPECIAL STEEL TRUSSES SHALL BE DESIGNED TO RESIST A FACTORED IN-PLANE SHEAR LOAD OF 619 LBS WIND AND 580 LBS SEISMIC.

ROOF FRAMING PLAN NOTES

NOT TO SCALE

A21 ROOF FRAMING PLAN - PHASE 1 - PAVILLION EXTENSION

1/8" = 1'-0"

HAINES STRUCTURAL GROUP
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CHARLES JOHNSON REGISTERED ENGINEER No. 120215 STATE OF TENNESSEE 04/01/2024

CONSTRUCTION DOCUMENTS

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37607

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SHEET DESCRIPTION

ROOF FRAMING PLAN - PAVILION EXTENSION

S112

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

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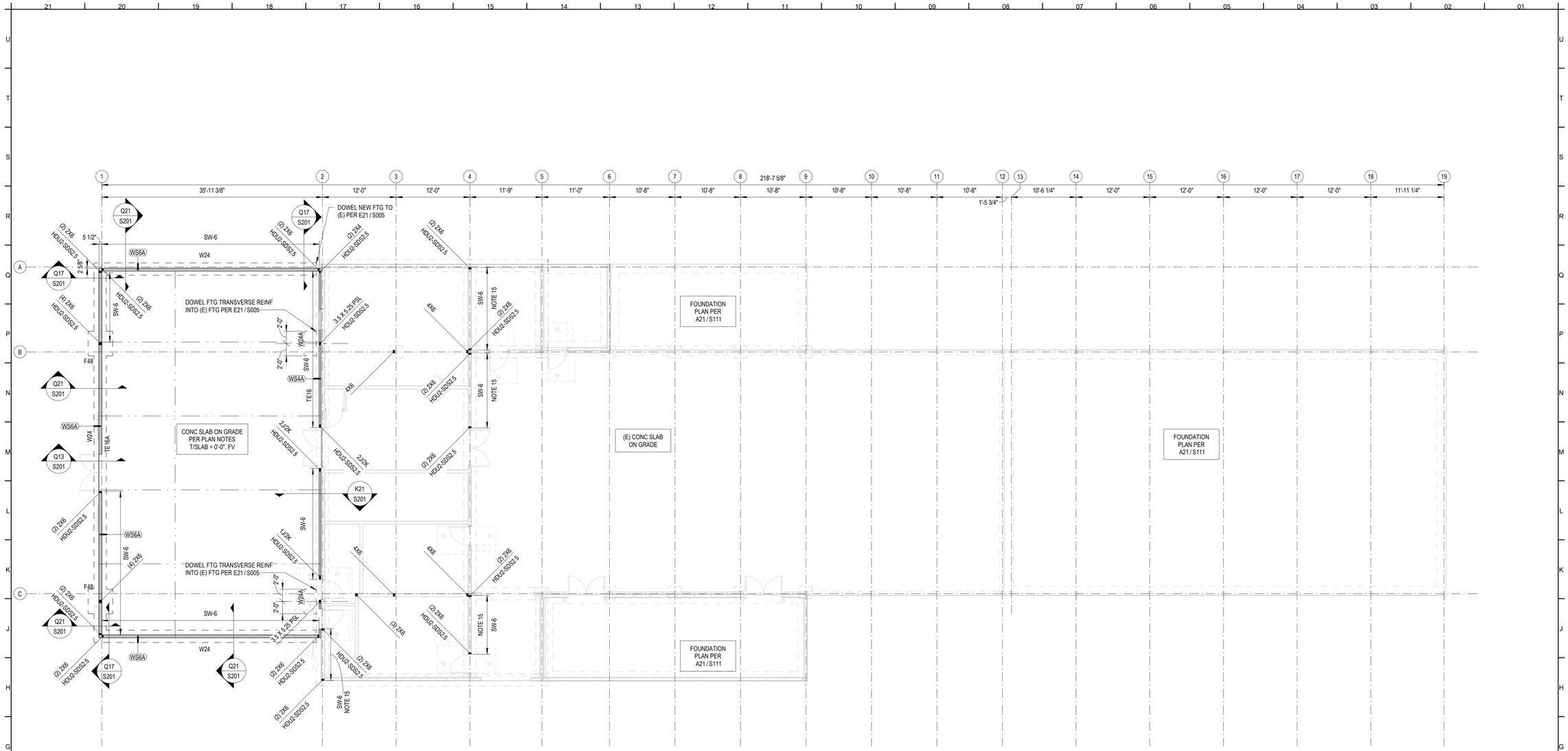

FOUNDATION PLAN NOTES:

1. ELEVATIONS ARE BASED ON A REFERENCE FLOOR ELEVATION OF 0'-0", UNO. TOP OF SLAB ON GRADE IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE.
2. ASSUMED (E) T/SLAB ELEVATION = 0'-0". FIELD VERIFY ALL (E) TOP OF FOOTING ELEVATIONS.
3. T/ INTERIOR FOOTING ELEVATION = -0'-8", TYP, UNO
4. T/ EXTERIOR FOOTING ELEVATION = -1'-4", TYP, UNO
5. INTERIOR SLAB ON GRADE IS 4 INCHES THICK AND REINFORCED WITH WWF 6X6 W2.1XW2.1. SLAB ON GRADE SHALL BE PLACED OVER A VAPOR BARRIER AND 4 INCHES (MIN) COMPACTED GRANULAR FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. SEE TYPICAL SLAB ON GRADE DETAILS FOR MORE INFORMATION.
6. EXTERIOR SLAB ON GRADE IS 4 INCHES THICK AND REINFORCED WITH WWF 6X6 W2.1XW2.1. SLAB ON GRADE SHALL BE PLACED OVER 4 INCHES (MIN) COMPACTED GRANULAR FILL. SEE TYPICAL SLAB ON GRADE DETAILS FOR MORE INFORMATION.
7. ( ) INDICATES TOP OF FOOTING ELEVATION AT NON-TYPICAL LOCATIONS.
8. 'F60' INDICATES COLUMN OR ISOLATED SPREAD FOOTING MARK. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
9. 'W24' INDICATES WALL OR CONTINUOUS FOOTING MARK. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
10. 'TS24' & 'TF24' INDICATE THICKENED SLAB AREAS TO BE POURED MONOLITHICALLY WITH SLAB ON GRADE. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
11. 'TE' DENOTES TURN-DOWN SLAB EDGE. SEE TYPICAL DETAIL FOR SIZE AND REINFORCING.
12. FOR ELEVATIONS, WALL SECTIONS, AND DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
13. FOR SIDEWALKS, PAVING, AND SITE DETAILS AT THE BUILDING EXTERIOR, SEE ARCHITECTURAL AND CIVIL DRAWINGS.
14. SEE A08 / S006 FOR TYPICAL JACK/KING STUD SCHEDULE.
15. ALL SHEAR WALL CALLOUTS ON EXISTING WALLS SHALL HAVE THE MINIMUM NAILING AND CONNECTION REQUIREMENTS AS SHOWN IN THE SHEAR WALL SCHEDULE.

COLUMN FOOTING SCHEDULE

MARK	LENGTH	WIDTH	DEPTH	REINFORCEMENT
F48	4'-0"	4'-0"	1'-0"	(5)-#5 EW BTM

WALL FOOTING SCHEDULE

MARK	WIDTH	DEPTH	REINFORCEMENT
W24	2'-0"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
W24A	2'-0"	1'-0"	(3)-#5 CONT W/ #5 X 2'-6" TRANS @ 1'-6" OC
W42	3'-6"	1'-0"	(4)-#5 CONT W/ #5 X 3'-0" TRANS @ 1'-6" OC TOP & BTM
W48	4'-0"	1'-0"	(4)-#5 CONT W/ #5 X 3'-6" TRANS @ 1'-6" OC TOP & BTM

A21 FOUNDATION PLAN - COMMERCIAL KITCHEN SHELL - ADDITOIN

1/8" = 1'-0"

FOUNDATION PLAN NOTES

NOT TO SCALE

HAINES STRUCTURAL GROUP
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CHARLES JOHNSON REGISTERED ENGINEER No. 120171 STATE OF TENNESSEE 04/01/2024

CONSTRUCTION DOCUMENTS

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37607

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SHEET DESCRIPTION

FOUNDATION PLAN - COMMERCIAL KITCHEN SHELL - ADDITION

S121

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

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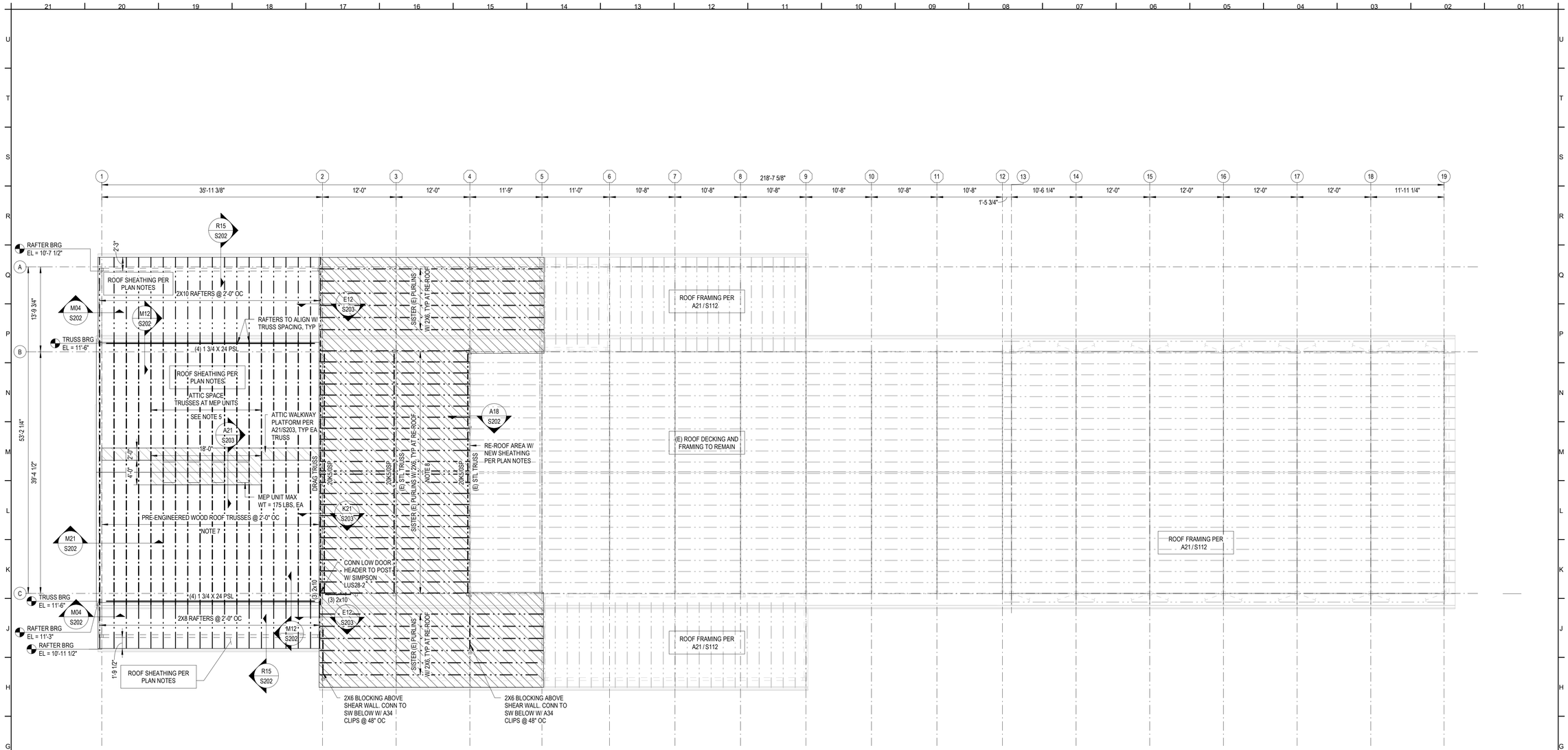

ROOF FRAMING PLAN NOTES:

1. ELEVATIONS ARE BASED ON A REFERENCE FLOOR ELEVATION OF 0'-0", UNO. TOP OF SLAB ON GRADE BELOW IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE.
2. ROOF FRAMING SHALL BE PRE-ENGINEERED WOOD ROOF TRUSSES AT 2'-0" OC MAX UNO. ALL TRUSSES SHALL BE ORIENTED IN THE DIRECTION SHOWN. ROOF TRUSS GIRDERS MAY BE ADJUSTED +/- 6", UNLESS THE ADJUSTMENT LOCATES THE TRUSS GIRDER OVER A WINDOW HEADER. TRUSS LAYOUT SHALL NOT BE SIGNIFICANTLY ALTERED FROM THE CONSTRUCTION DOCUMENTS. IF THERE IS A CONFLICT, OR THE LAYOUT AS SHOWN IN THE CONSTRUCTION DOCUMENTS CANNOT PHYSICALLY BE CONSTRUCTED, CONTACT STRUCTURAL ENGINEER PRIOR TO ISSUING SHOP DRAWINGS.
3. WOOD ROOF SHEATHING SHALL BE 19/32" UNO. SEE GENERAL NOTES FOR MORE INFORMATION. SEE TYPICAL DETAIL FOR ATTACHMENT AND LAYOUT REQUIREMENTS. BLOCKING IS NOT REQUIRED UNLESS NOTED IN DETAILS. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
4. ROOF TRUSSES SHALL BEAR ONLY ON EXTERIOR WALLS AND INTERIOR WOOD BEAM LINE.
5. ATTIC TRUSSES SHALL BE DESIGNED TO ACCOMMODATE A 20 PSF MAINTENANCE LIVE LOAD AND A 10 PSF DEAD LOAD IN THE HATCHED REGION AROUND THE MECHANICAL UNITS.
6. DRAG TRUSS SHALL BE DESIGNED TO RESIST AN IN-PLANE SHEAR LOAD OF 70 PLF.
7. TRUSSES SHALL BE DESIGNED TO RESIST AN IN-PLANE FACTORED SHEAR LOAD OF 230 LBS AT THE RAFTER CONNECTION POINT PER DETAIL M12 / S202
8. NEW 2X JOISTS SHALL BE FASTENED TO (E) PURLINS W/ (2) ROWS OF 10d NAILS @ 16" OC, TYPICAL.

A21 ROOF FRAMING PLAN - COMMERCIAL KITCHEN SHELL - ADDITION

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES

NOT TO SCALE

HAINES STRUCTURAL GROUP
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CONSTRUCTION DOCUMENTS

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37607

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SHEET DESCRIPTION

ROOF FRAMING PLAN - COMMERCIAL KITCHEN SHELL - ADDITION

S122

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

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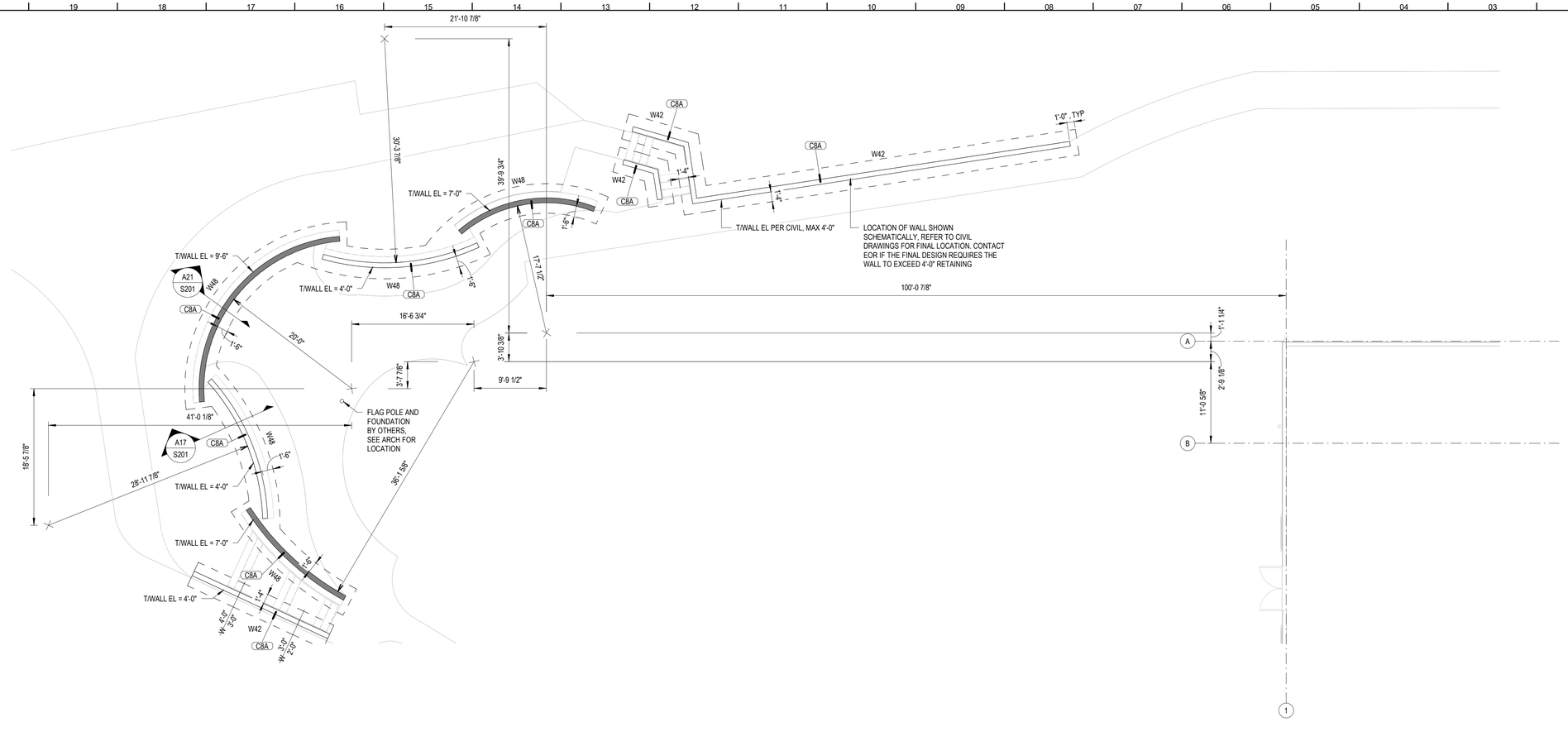

WALL FOOTING SCHEDULE			
MARK	WIDTH	DEPTH	REINFORCEMENT
W24	2'-0"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
W24A	2'-0"	1'-0"	(3)-#5 CONT W/ #5 X 2'-6" TRANS @ 1'-6" OC
W42	3'-6"	1'-0"	(4)-#5 CONT W/ #5 X 3'-0" TRANS @ 1'-6" OC TOP & BTM
W48	4'-0"	1'-0"	(4)-#5 CONT W/ #5 X 3'-6" TRANS @ 1'-6" OC TOP & BTM

FOUNDATION PLAN NOTES:

1. ELEVATIONS ARE BASED ON A REFERENCE FINISHED FLOOR ELEVATION OF 0'-0", UNO. THIS CORRESPONDS TO A MEAN SEA LEVEL ELEVATION OF 1175.50 FEET PER CIVIL. TOP OF SLAB ON GRADE IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE.
2. T/ EXTERIOR FOOTING ELEVATION = -1'-4", TYP, UNO
3. EXTERIOR SLAB ON GRADE IS 4 INCHES THICK AND REINFORCED WITH WWF 6X6 W2.1XW2.1. SLAB ON GRADE SHALL BE PLACED OVER 4 INCHES (MIN) COMPACTED GRANULAR FILL.SEE TYPICAL SLAB ON GRADE DETAILS FOR MORE INFORMATION.
4. ( ) INDICATES TOP OF FOOTING ELEVATION AT NON-TYPICAL LOCATIONS.
5. "W24' INDICATES WALL OR CONTINUOUS FOOTING MARK. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
6. FOR ELEVATIONS, WALL SECTIONS, AND DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
7. FOR SIDEWALKS, PAVING, AND SITE DETAILS AT THE BUILDING EXTERIOR, SEE ARCHITECTURAL AND CIVIL DRAWINGS.

E21 MUSIC WALLS FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION PLAN NOTES

NOT TO SCALE

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CHARLES JOHNSON REGISTERED ENGINEER No. 120171 STATE OF TENNESSEE 04/01/2024

CONSTRUCTION DOCUMENTS

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115 DURHAM DR, MAYNARDVILLE, TN 37607

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SHEET DESCRIPTION

MUSIC SITE WALLS

S131

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

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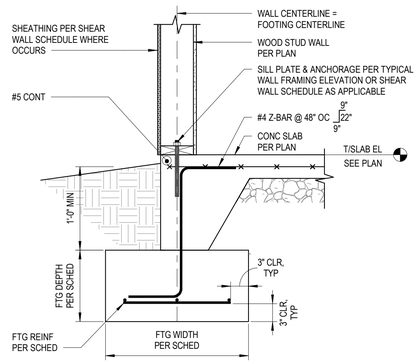
4/1/2024 2:55:59 PM



Q21 TYPICAL EXTERIOR WALL FOOTING
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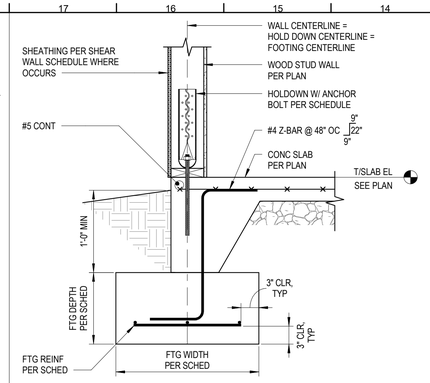
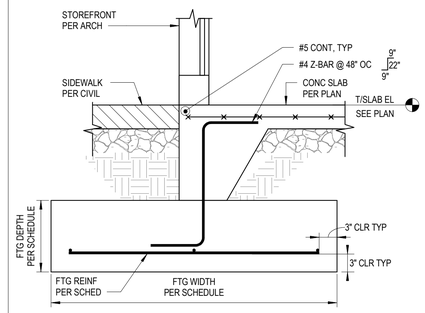


Q17 TYP HOLD DOWN AT EXTERIOR WALL
1" = 1'-0"



Q13 TYP STOREFRONT FOOTING CONDITION
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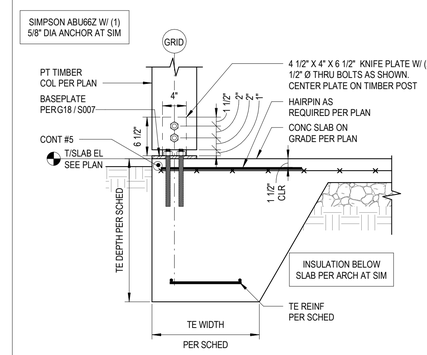

Q09 FOUNDATION SECTION
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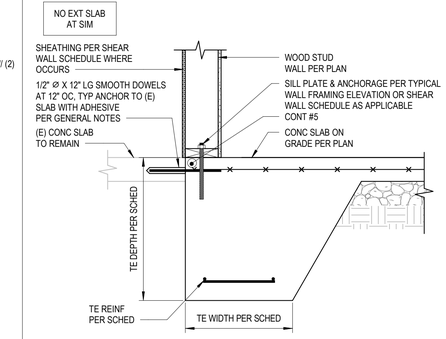

Q05 FOUNDATION SECTION
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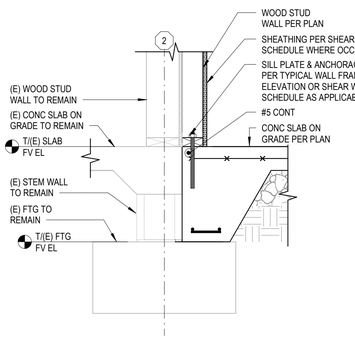
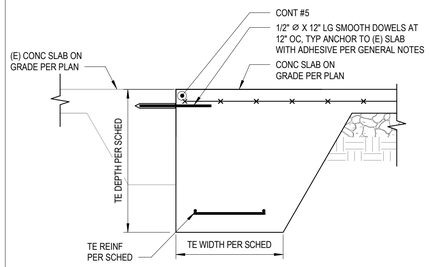
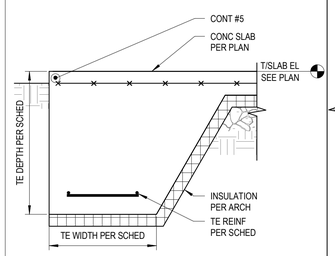


K21 FOUNDATION SECTION
1" = 1'-0"



L17 FOUNDATION SECTION
1" = 1'-0"



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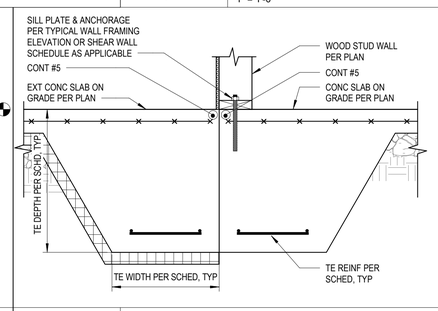

L10 FOUNDATION SECTION
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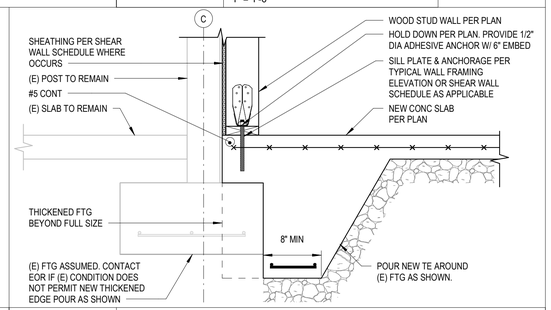

L06 FOUNDATION SECTION
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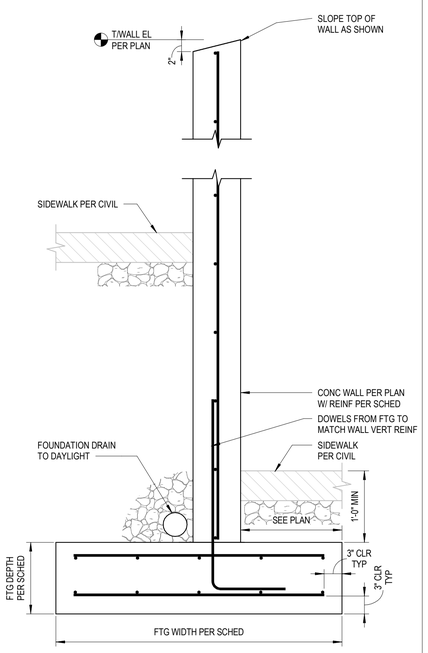

A21 FOUNDATION SECTION
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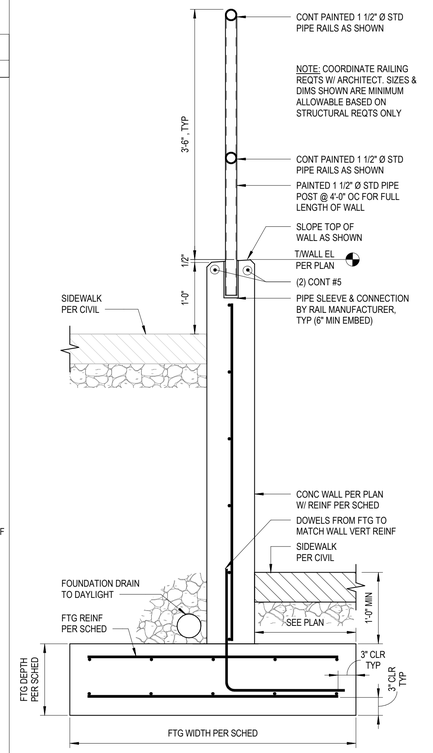

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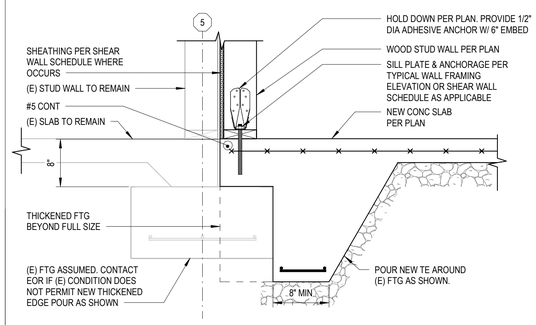

D13 FOUNDATION SECTION
1" = 1'-0"

NOTE: COORDINATE INSULATION REQUIREMENTS WITH ARCHITECTURAL DRAWINGS

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CHARLES JOHNSON REGISTERED ENGINEER No. 120275 STATE OF TENNESSEE 04/01/2024

CONSTRUCTION DOCUMENTS
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SHEET DESCRIPTION
SECTIONS & DETAILS

S201

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

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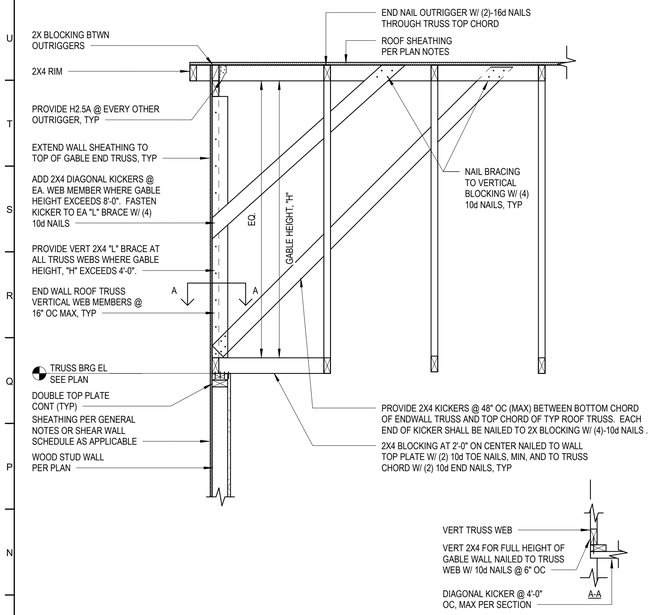
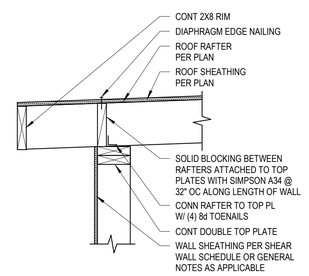
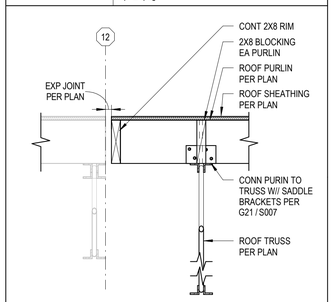


M21 GABLE BRACING DETAIL
3/4" = 1'-0"



R15 ROOF FRAMING SECTION
1" = 1'-0"



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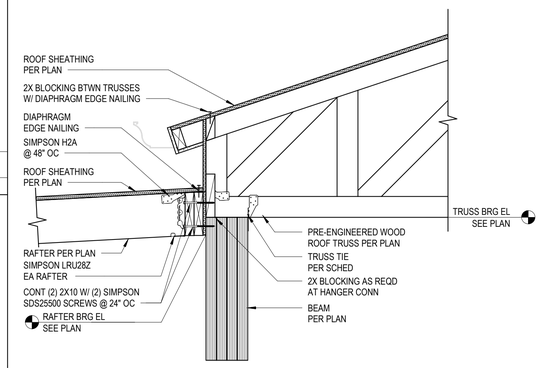

M12 ROOF FRAMING SECTION
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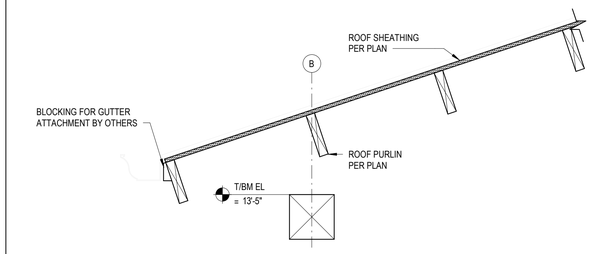

R07 ROOF FRAMING SECTION
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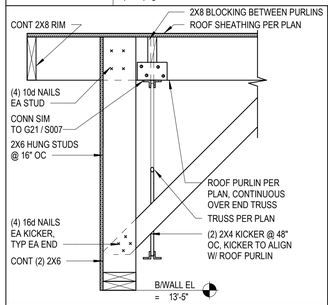

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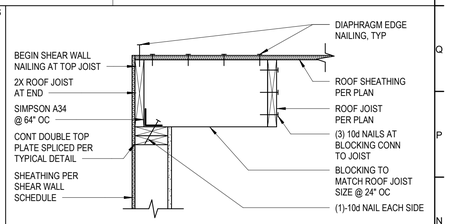

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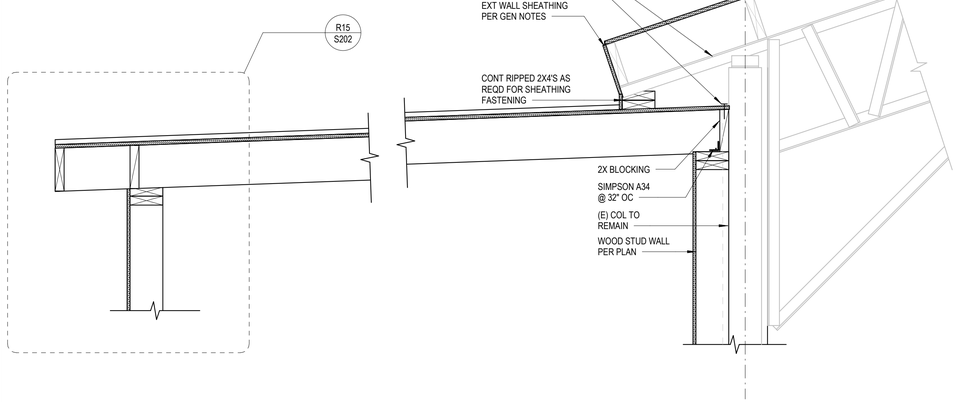
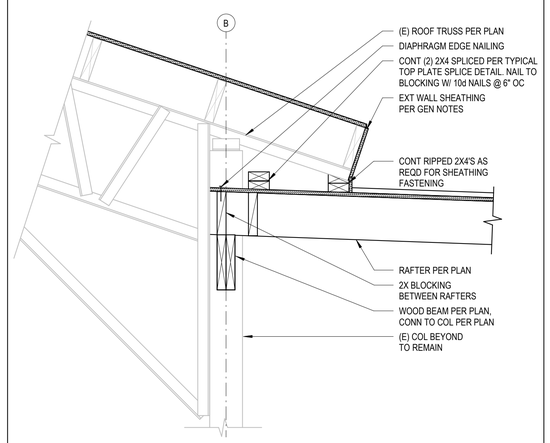


E21 ROOF FRAMING SECTION
1" = 1'-0"



E12 ROOF FRAMING SECTION
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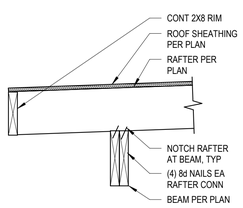
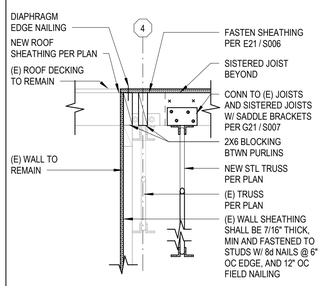


A21 ROOF FRAMING SECTION
1" = 1'-0"



A18 ROOF FRAMING SECTION
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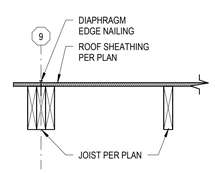

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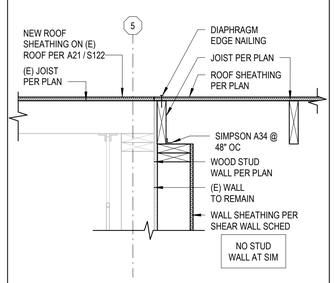

A12 ROOF FRAMING SECTION
1" = 1'-0"

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04/01/2024

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SECTIONS & DETAILS

S202

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project no. 23098

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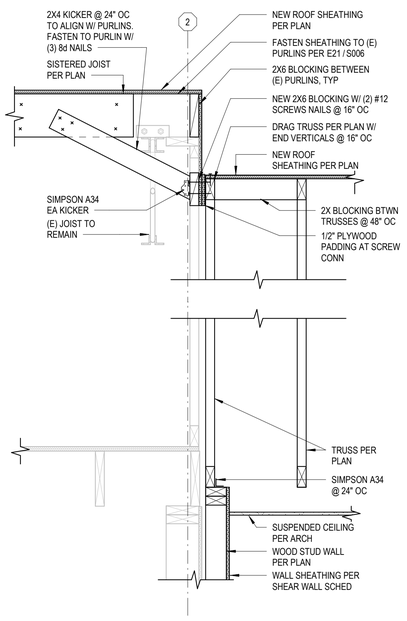

K21 ROF FRAMING SECTION
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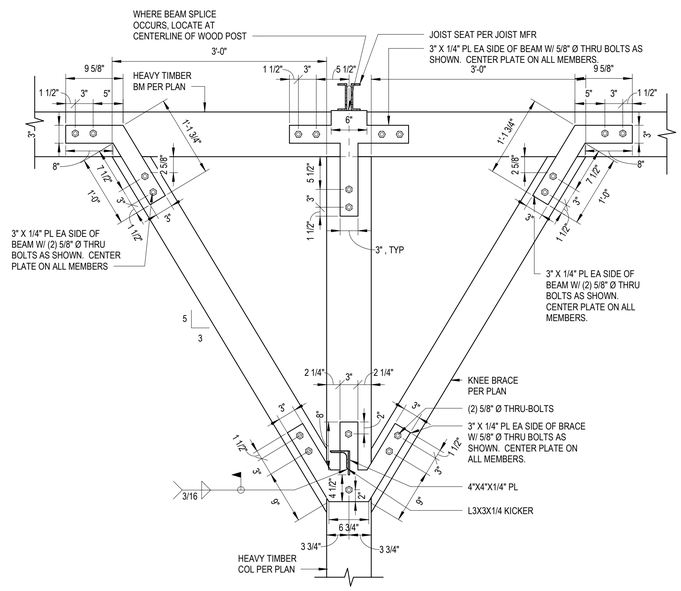

K17 TYP KNEE BRACES
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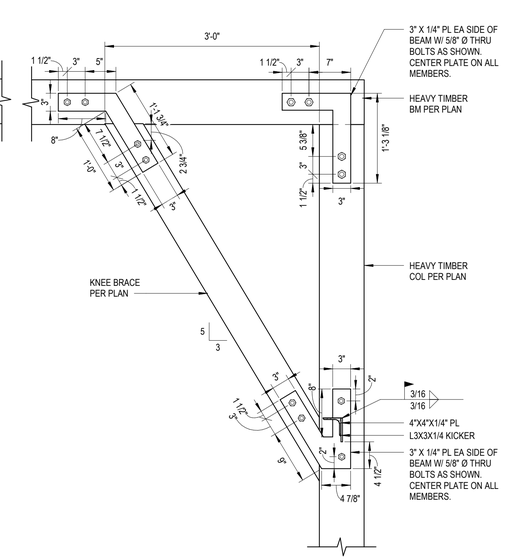

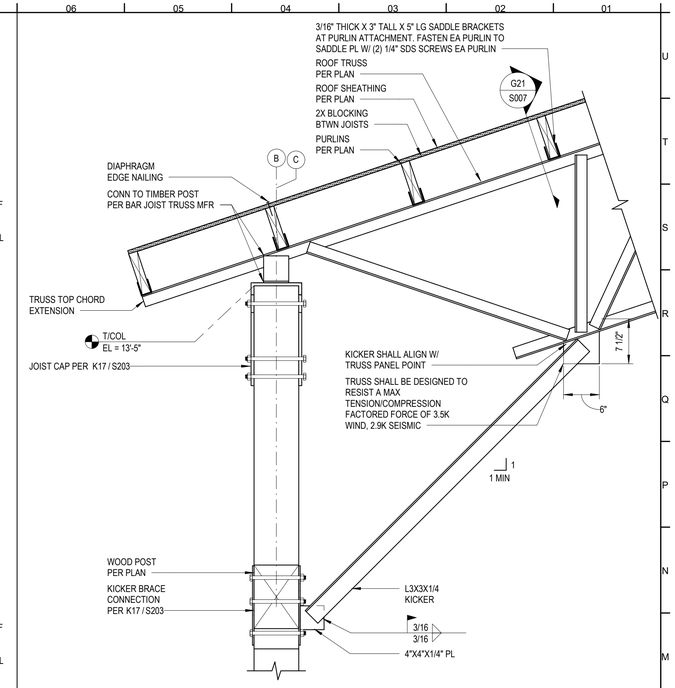

K06 ROOF FRAMING SECTION
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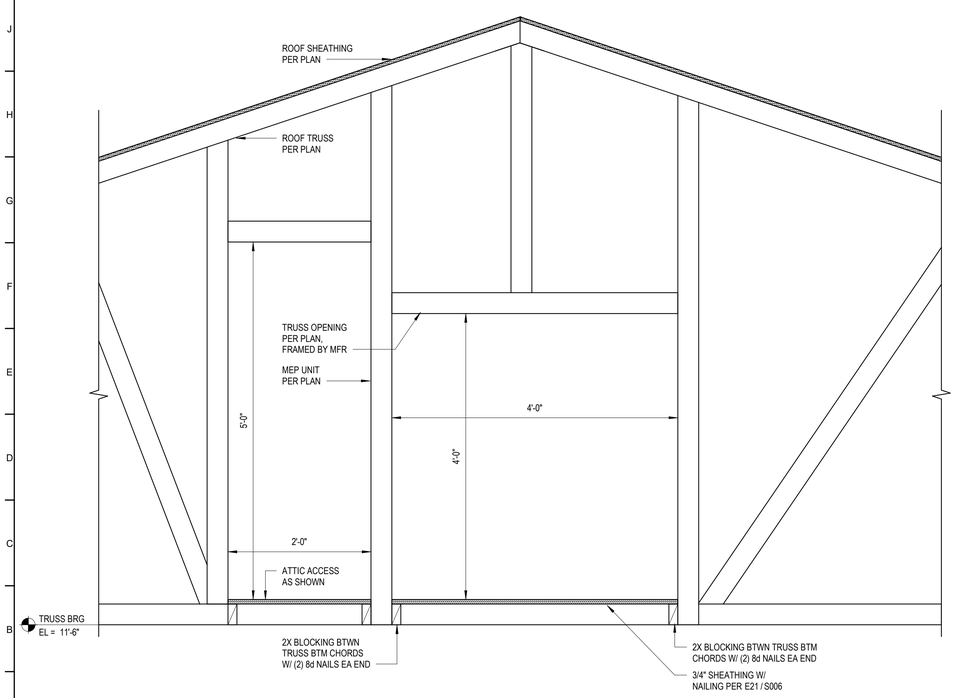

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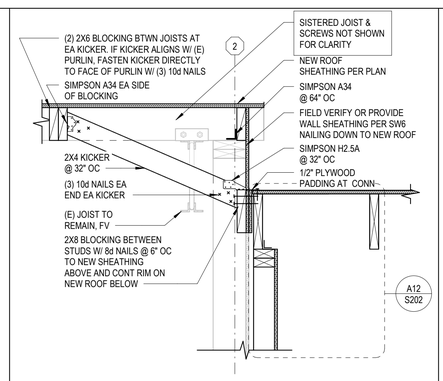
1" = 1'-0"



E12 ROOF FRAMING SECTION
1" = 1'-0"

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SHEET DESCRIPTION
SECTIONS & DETAILS

S203

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

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800 S. GAY STREET, STE. 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 23098

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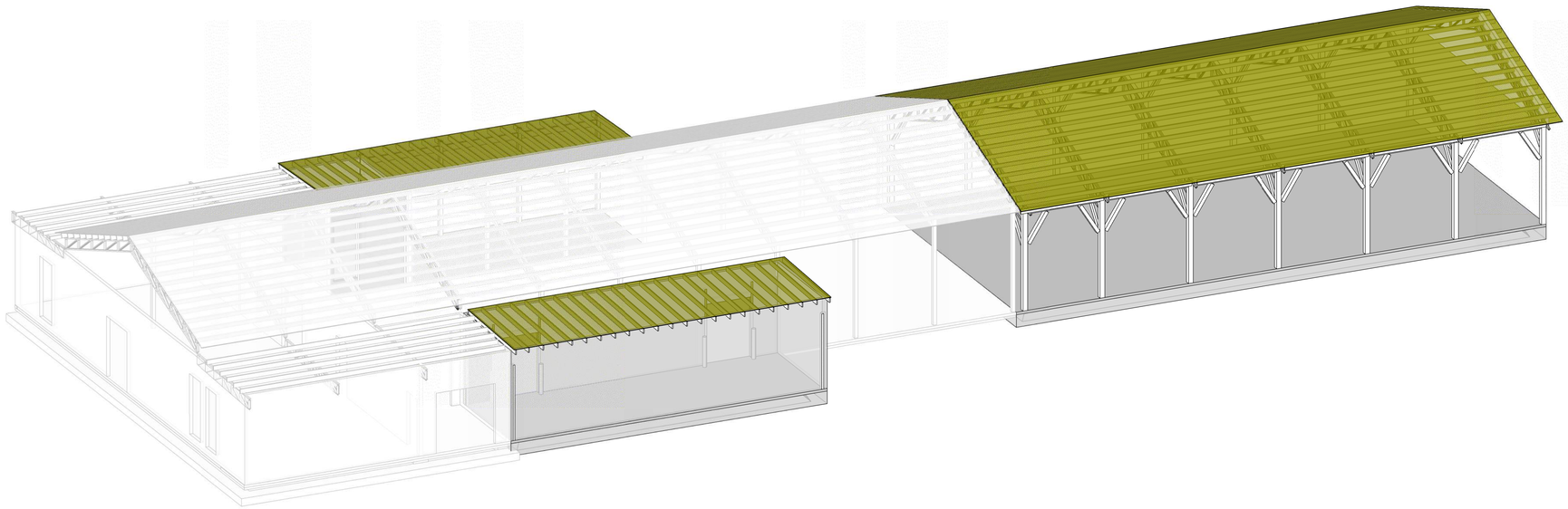

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CHARLES JOHNSON
REGISTERED ENGINEER
No. 120213
STATE OF TENNESSEE
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SHEET DESCRIPTION

STRUCTURAL ISO

S301

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

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A21 Structural 3D ISO - PAVILLION EXTENSION

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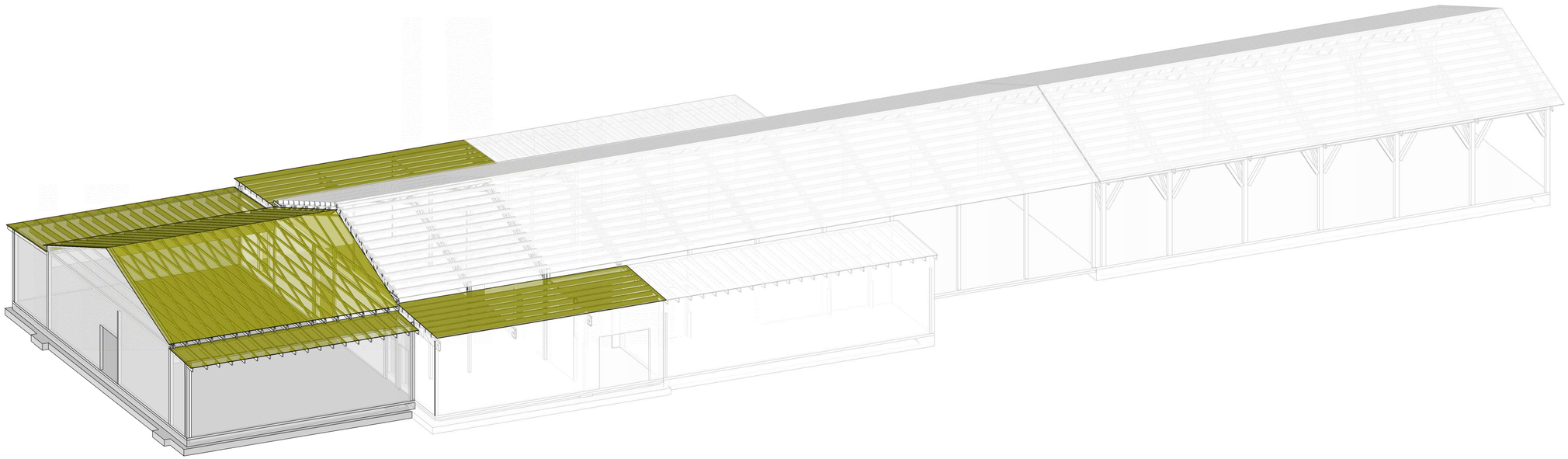

A21 Structural 3D ISO - COMMERCIAL KITCHEN SHELL - ADDITION

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CHARLES JOHNSON REGISTERED ENGINEER No. 120175 STATE OF TENNESSEE 04/01/2024

CONSTRUCTION DOCUMENTS

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37607

NO.	DESCRIPTION	DATE

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SHEET DESCRIPTION

STRUCTURAL ISO

S302

PROJECT DATE	PROJECT NUMBER
04/01/2024	23071

C.O.K. PLANS REVIEW / ELECTRONIC PERMIT STAMP

4/1/2024 2:56:10 PM

KEYED NOTES

DEMOLITION & REMOVALS

01 SELECTIVE DEMOLITION OF EXISTING METAL SIDING TO ALLOW FOR NEW BUILDING ADDITION AT THIS LOCATION - SEE PLANS FOR NEW WORK
02 REMOVE EXISTING CONCRETE, GRAVEL, ASPHALT, ETC. AT THIS LOCATION AND PREP SITE AND ADJACENT BUILDING SLAB FOR NEW WORK
03 SELECTIVE SLAB REMOVAL REQUIRED FOR NEW WATER AND SEWER - SEE PLUMBING AND FOOD SERVICE DRAWINGS FOR REFERENCE.
04 REMOVE EXISTING WALL FINISHES AT ALL SIDES OF THE ROOM. SELECTIVE DEMO OF GYP. BD. REQUIRED AT FUTURE WET WALLS AND FIXTURE LOCATIONS - SEE PLUMBING AND ARCHITECTURAL FOR REFERENCE.
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06 DEMO EXISTING WALL AND PREPARE FOR NEW FRAMED OPENING.
07 EXISTING COOLER TO BE REMOVED AND RELOCATED - SEE FLOOR PLAN PHASE 01
08 ALL EXISTING RESTROOM FIXTURES TO BE REMOVED AND REPLACED - SEE ENLARGED RESTROOM PLANS
09 INFILL EXISTING WALL OPENING - STAINED WOOD VENEER - TO MATCH EXISTING
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14 REMOVE EXISTING METAL SIDING, TRIM, FASCIA, GUTTERS, ETC. AT THIS FACADE TO PREPARE FOR NEW CONSTRUCTION - SEE PHASE 02 NEW CONSTRUCTION PLANS FOR ADDITIONAL INFO.
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19 PREP EXISTING AREA FOR FUTURE ADDITION BUILD-OUT STUBBING AND CONDUIT
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GENERAL NOTES

DEMOLITION & REMOVALS

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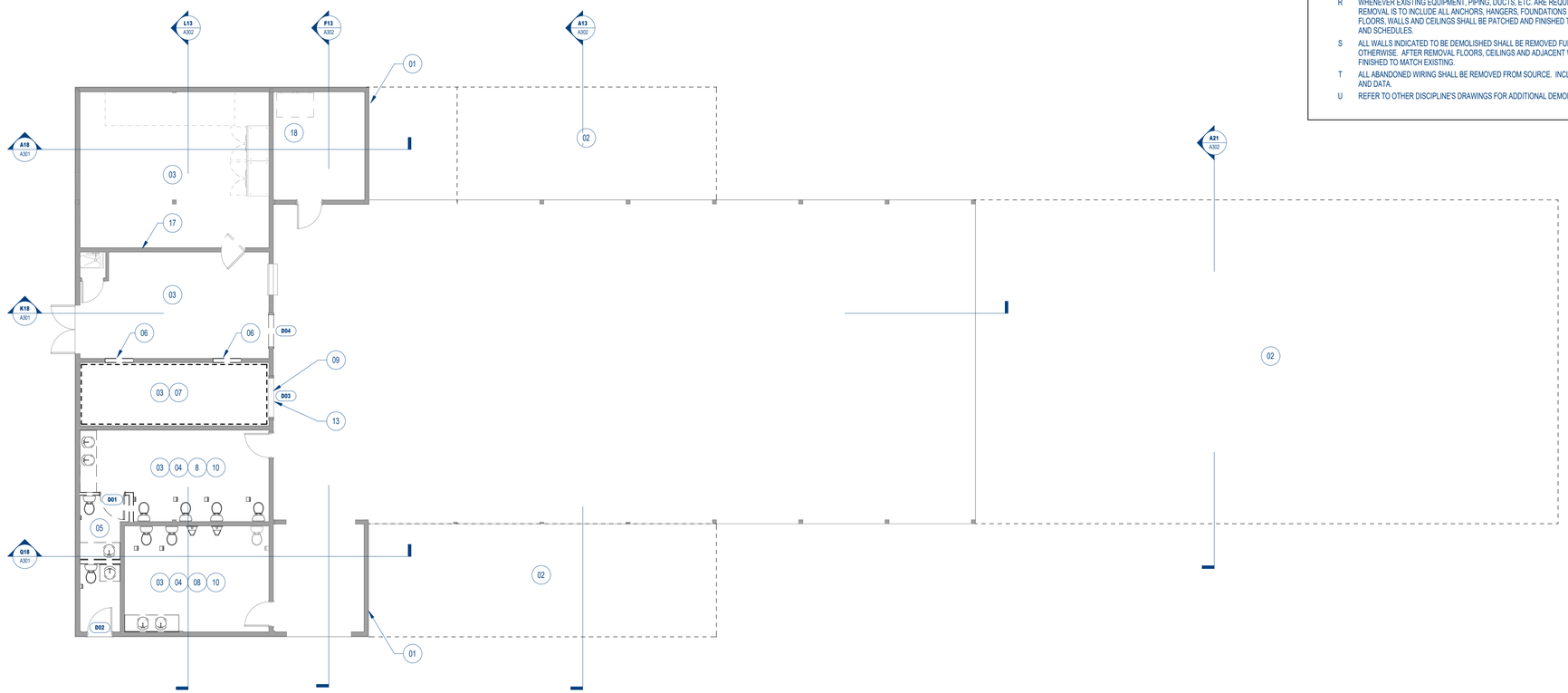

NOTE: CONTRACTOR TO DEMO EXISTING BUILDING ELEMENTS AND PREPARE FOR FUTURE WORK IN ALL THREE (3) PHASES SHOWN IN THE DRAWINGS.

A21 DEMO PLAN - FLOOR PLAN - PHASE 01
1/8" = 1'-0" EXISTING / DEMOLITION PLAN - BASE BID

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2024-04-01

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SHEET DESCRIPTION
PHASE 01 DEMO PLAN - FLOOR PLAN

AD101

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

4/4/2024 11:09:19 AM

KEYED NOTES

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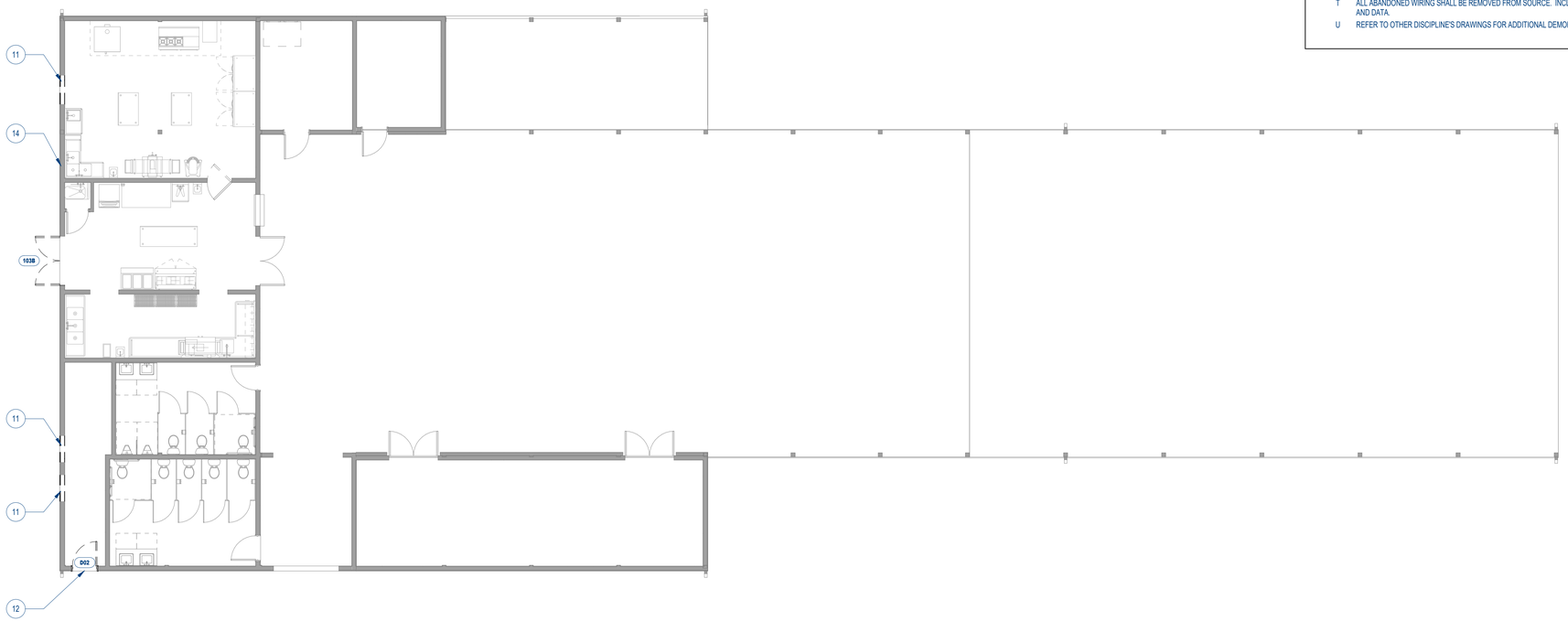

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A21 DEMO PLAN - FLOOR PLAN - PHASE 02
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SHEET DESCRIPTION
PHASE 02 DEMO PLAN - FLOOR PLAN

AD102

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

4/4/2024 11:09:19 AM

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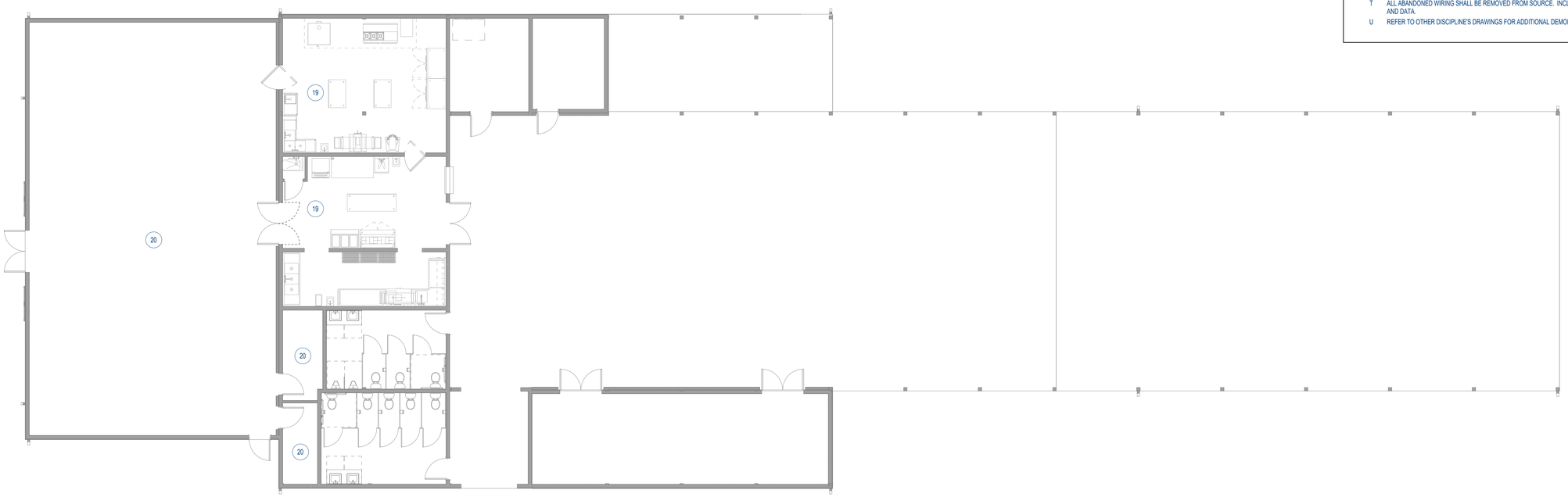

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115 DURHAM DR, MAYNARDVILLE, TN 37807

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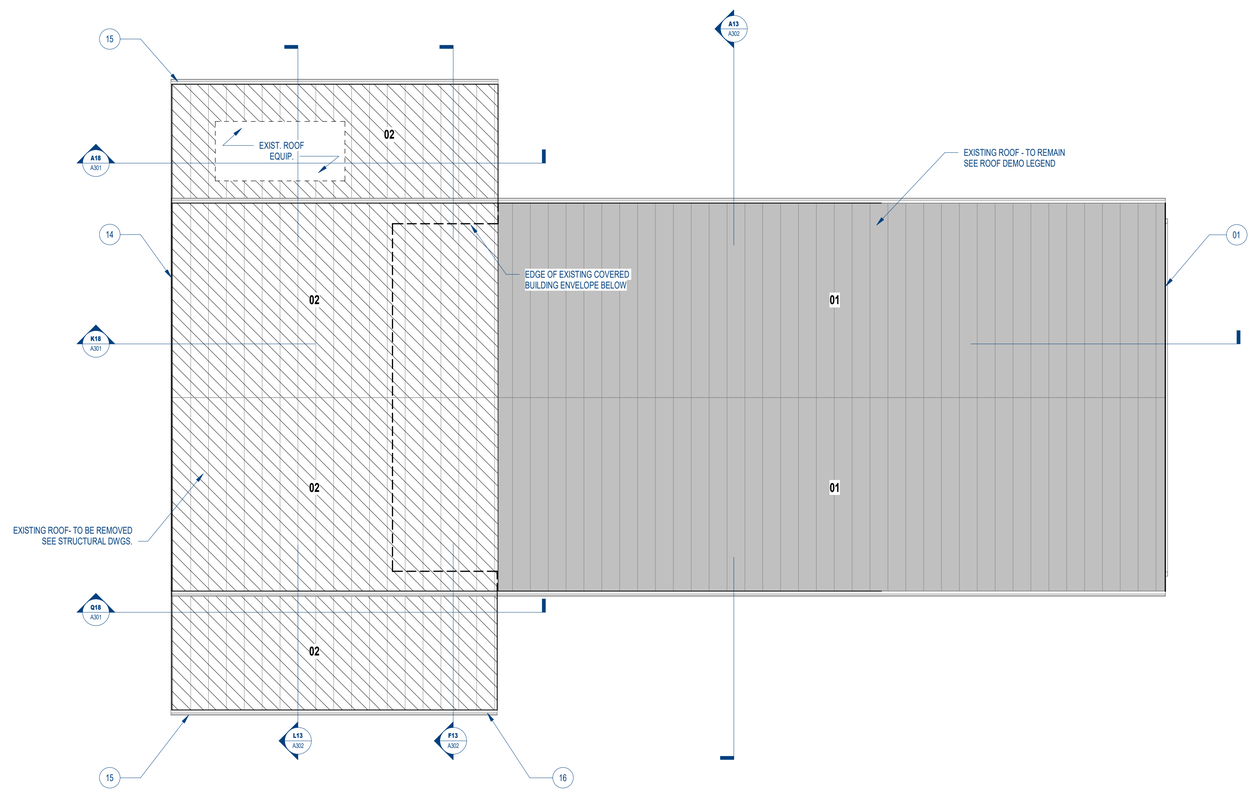
SHEET DESCRIPTION
PHASE 03 DEMO PLAN - FLOOR PLAN

AD103

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

4/4/2024 11:09:20 AM



GENERAL NOTES

DEMOLITION & REMOVALS

A DEMOLITION NOTES PERTAIN TO THE GENERAL SCOPE OF WORK AND ARE TO BE CONSIDERED AS PERTAINING TO ALL CONDITIONS SIMILAR TO THOSE INDICATED, WHETHER SPECIFICALLY IDENTIFIED OR NOT.

B IF, DURING DEMOLITION, CONDITIONS ARE REVEALED THAT MAY JEOPARDIZE THE INTEGRITY OF THE STRUCTURE OR PRECLUDE FOLLOWING THE DESIGN INTENT, GENERAL CONTRACTOR IS TO NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY.

C THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL METHODS OF CONSTRUCTION AND COORDINATION OF THE SAME, INCLUDING GENERAL CONSTRUCTION, MECHANICAL, ELECTRICAL & PLUMBING UNLESS NOTED OTHERWISE.

D THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL CONSTRUCTION IS PROPERLY BRACED DURING DEMOLITION AND RENOVATION.

E THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SITE INVESTIGATION PRIOR TO DEMOLITION TO REVEAL FULL SCOPE OF WORK.

F NO TRASH OR DEBRIS SHALL BE STORED ON SITE. REMOVE ALL DEMOLISHED MATERIALS FROM SITE DAILY.

G THE GENERAL CONTRACTOR SHALL COORDINATE INTERRUPTION OR DISCONNECTION OF UTILITIES WITH APPROPRIATE AGENCIES AND AUTHORITIES. NOTIFY OWNER 48 HOURS IN ADVANCE OF SCHEDULED INTERRUPTIONS.

H PATCH AND REPAIR ALL DAMAGED WALLS, FLOORS, AND CEILINGS AS REQUIRED TO RECEIVE NEW FINISHES. REPLACE EXISTING DAMAGED FINISHES WITH NEW FINISHES, OR REFINISH ENTIRE AREA OF CONCERN W/ NEW.

I ALL PENETRATIONS, NEW OR EXISTING, IN EXISTING RATED WALLS TO BE REPAIRED WITH CODES APPROVED MATERIALS OF EQUAL OR GREATER FIRE RESISTANCE.

J ALL ORIGINAL CODE REQUIRED FIRE RATED PARITITIONS, FIREPROOFINGS, ASSEMBLIES, ETC. DAMAGED DURING CONSTRUCTION SHALL BE RETUREND TO ORIGINAL RATING.

K THE GENERAL CONTRACTOR SHALL CAREFULLY REMOVE ALL EXISTING EQUIPMENT, FURNISHINGS, FINISHES, ETC. AND PROPERLY STORE THESE ITEMS FOR THE OWNER TO REUSE OR SALVAGE AT THEIR DISCRETION. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, HVAC UNITS AND DUCTING, PLUMBING FIXTURES, CURTAINS & WINDOW TREATMENT, ETC. AFTER FIRST REFUSAL BY THE OWNER, THE CONTRACTOR MAY DISCARD THESE ITEMS.

L ALL AREAS TO RECEIVE NEW CONSTRUCTION ARE TO BE STRIPPED OF EXISTING FINISHES AND PROPERLY PREPARED TO RECEIVE THE NEW CONSTRUCTION & FINISHES WITH A PROPER BOND. COORDINATE W/ TENANT EXTENT OF EXISTING FLOOR & WALL FINISH REMOVAL

M ALL ABANDONED DUCTING, PIPING, CONDUIT, ETC. IS TO BE REMOVED.

N RAISE EXISTING PIPING, CONDUIT, ETC. AS REQUIRED TO ACCOMMODATE NEW CEILING, MECHANICAL, PLUMBING AND ELECTRICAL ITEMS WHERE FEASIBLE.

O DEMOLITION WORK SHALL BE COORDINATED WITH ALL SUBCONTRACTORS TO ENSURE UNINTERRUPTED PROGRESS OF NEW CONSTRUCTION WORK.

P ALL DEMOLITION, CUTTING AND PATCHING SHALL BE DONE TO MAINTAIN STRUCTURAL, INTEGRITY OF EXISTING STRUCTURE AND IS TO PROVIDE A SMOOTH FINISHED APPEARANCE WHEN COMPLETED.

Q PATCH AND REPAIR ALL AREAS OF EXISTING STRUCTURE AFFECTED BY DEMLOITION TO MATCH NEW CONSTRUCTION.

R WHENEVER EXISTING EQUIPMENT, PIPING, DUCTS, ETC. ARE REQUIRED TO BE REMOVED, SUCH REMOVAL IS TO INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS ETC. AFTER REMOVAL. ALL FLOORS, WALLS AND CEILINGS SHALL BE PATCHED AND FINISHED TO MATCH ADJACENT SURFACES AND SCHEDULES.

S ALL WALLS INDICATED TO BE DEMOLISHED SHALL BE REMOVED FULL HEIGHT UNLESS NOTED OTHERWISE. AFTER REMOVAL FLOORS, CEILINGS AND ADJACENT WALLS SHALL BE REPAIRED & FINISHED TO MATCH EXISTING.

T ALL ABANDONED WIRING SHALL BE REMOVED FROM SOURCE. INCLUDING ELECTRICAL, TELEPHONE, AND DATA.

U REFER TO OTHER DISCIPLINE'S DRAWINGS FOR ADDITIONAL DEMOLITION.

KEYED NOTES

DEMOLITION & REMOVALS

01 SELECTIVE DEMOLITION OF EXISTING METAL SIDING TO ALLOW FOR NEW BUILDING ADDITION AT THIS LOCATION - SEE PLANS FOR NEW WORK

02 REMOVE EXISTING CONCRETE, GRAVEL, ASPHALT, ETC. AT THIS LOCATION AND PREP SITE AND ADJACENT BUILDING SLAB FOR NEW WORK

03 SELECTIVE SLAB REMOVAL REQUIRED FOR NEW WATER AND SEWER - SEE PLUMBING AND FOOD SERVICE DRAWINGS FOR REFERENCE.

04 REMOVE EXISTING WALL FINISHES AT ALL SIDES OF THE ROOM. SELECTIVE DEMO OF GYP. BD. REQUIRED AT FUTURE WET WALLS AND FIXTURE LOCATIONS - SEE PLUMBING AND ARCHITECTURAL FOR REFERENCE.

05 DEMO EXISTING TOILET AND TOILET FIXTURES AND PREPARE AREA FOR FUTURE ACCESSIBLE TOILET AND LAUNDRY SPACE.

06 DEMO EXISTING WALL AND PREPARE FOR NEW FRAMED OPENING.

07 EXISTING COOLER TO BE REMOVED AND RELOCATED - SEE FLOOR PLAN PHASE 01

08 ALL EXISTING RESTROOM FIXTURES TO BE REMOVED AND REPLACED - SEE ENLARGED RESTROOM PLANS

09 INFILL EXISTING WALL OPENING - STAINED WOOD VENEER - TO MATCH EXISTING

10 REMOVE ALL EXISTING FRP IN RESTROOMS - PREP FOR NEW WALL FINISH PER FINISH PLAN

11 DEMO EXISTING WALL AND PREPARE FOR NEW DOOR AND FRAMED OPENING - SEE FRAMED OPENING SCHEDULE.

12 REMOVE EXISTING EXTERIOR DOOR AND PREPARE FOR INFILL WALL AND NEW SIDING - TO MATCH EXISTING.

13 DEMO EXISTING WALL AND OPENING TO ALLOW FOR WALKIN RELOCATION. PREPARE OPENING FOR FUTURE INFILL WALL AND RECLADDING - TO MATCH EXISTING - SEE PLANS.

14 REMOVE EXISTING METAL SIDING, TRIM, FASCIA, GUTTERS, ETC. AT THIS FACADE TO PREPARE FOR NEW CONSTRUCTION - SEE PHASE 02 NEW CONSTRUCTION PLANS FOR ADDITIONAL INFO.

15 EXISTING DOWNSPOUT LOCATION - REMOVE AND REPLACE DOWNSPOUT TO MATCH EXISTING

16 REMOVE ALL EXISTING GUTTERS AND DOWNSPOUTS. REPLACE WITH NEW GUTTERS AND DOWNSPOUTS TO MATCH EXISTING - TYP.

17 SELECTIVE DEMO OF WALL FINISH AND GYP. BD. REQUIRED TO INSTALL NEW EQUIPMENT AND PLUMBING FIXTURES - SEE FOOD SERVICE DWGS.

18 SELECTIVE DEMO OF SLAB REQUIRED FOR NEW BUILDING ELECTRICAL - SEE ELECT. DWGS.

19 PREP EXISTING AREA FOR FUTURE ADDITION BUILD-OUT STUBBING AND CONDUIT

20 ALL FUTURE EQUIPMENT AND UTILITIES TO BE STUBBED IN BUILDING SHELL ADDITION TO ALLOW FOR FUTURE KITCHEN ADDITION BUILD-OUT

ROOF DEMO LEGEND

01 - EXISTING TO REMAIN

02 - EXISTING ROOF TO BE REMOVED TO ALLOW FOR NEW DECKING TO BE INSTALLED TO STRUCTURE BELOW. EXISTING ROOF TO BE RE-INSTALLED AFTER NEW DECKING.
- SEE STRUCTURAL FOR MORE DETAILED INFORMATION
- SEE ROOF PLAN FOR EXTENTS OF INSTALLATION

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ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

GREGORY SCOTT CAMPBELL
REGISTERED ARCHITECT
AGRICOLA
No. 101043
STATE OF TENNESSEE
2024-04-01

PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR., MAYNARDVILLE, TN 37807

NO.	ISSUED BY	DATE

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SHEET DESCRIPTION

DEMO PLAN - ROOF PLAN

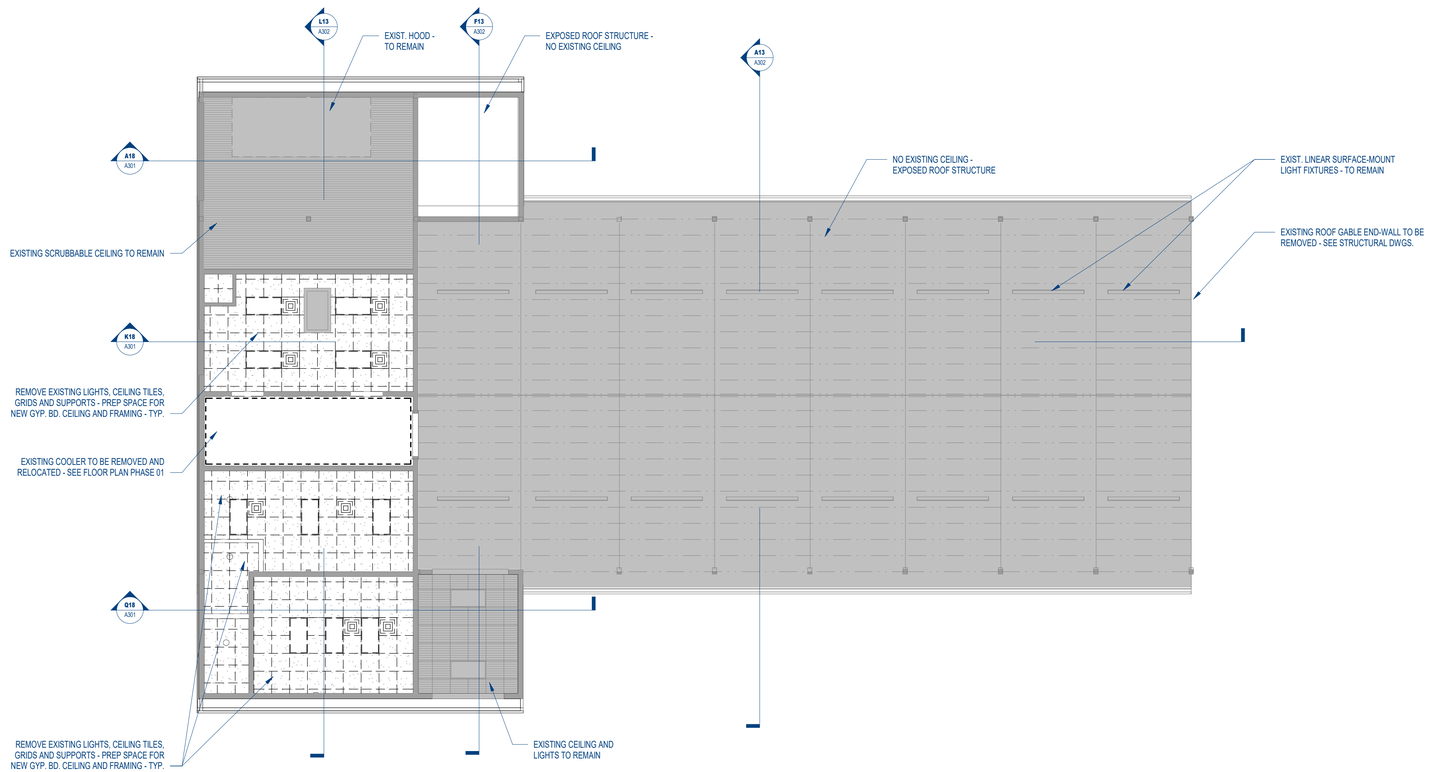
AD104

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

A21 DEMO PLAN - ROOF PLAN - PHASE 01

1/8" = 1'-0" EXISTING / DEMOLITION PLAN - BASE BID

4/4/2024 11:09:21 AM



A21

DEMO PLAN - RCP - PHASE 01

1/8" = 1'-0"

EXISTING / DEMOLITION PLAN - BASE BID

4/4/2024 11:09:21 AM

GENERAL NOTES

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GREGORY SCOTT CAMPBELL
REGISTERED ARCHITECT
AGRICULTURE
2024-04-01
No. 101043
STATE OF TENNESSEE

PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

NO.	ISSUED BY	DATE

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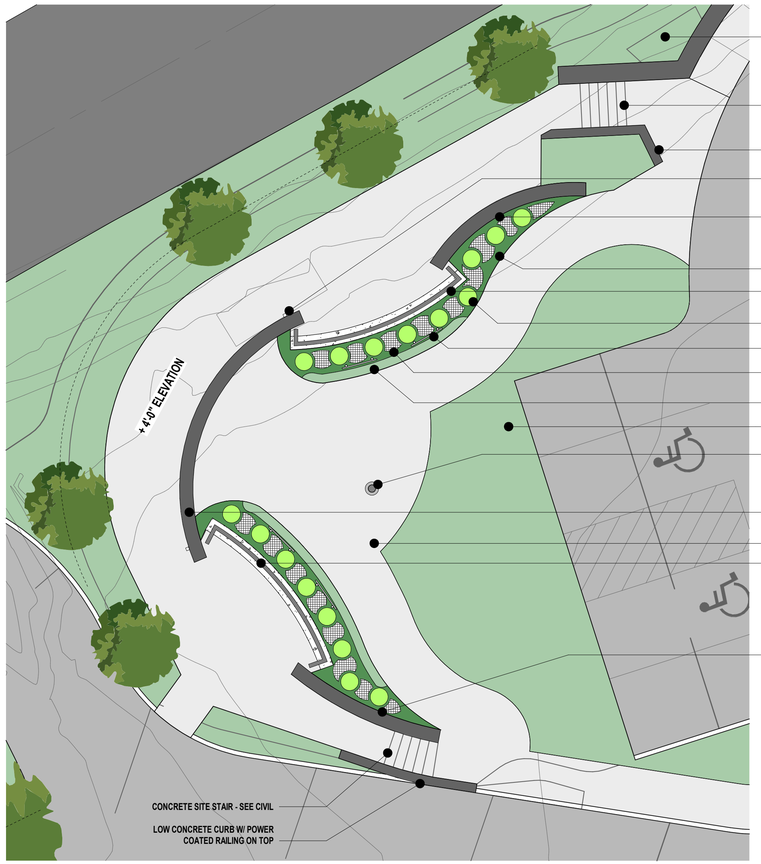
SHEET DESCRIPTION

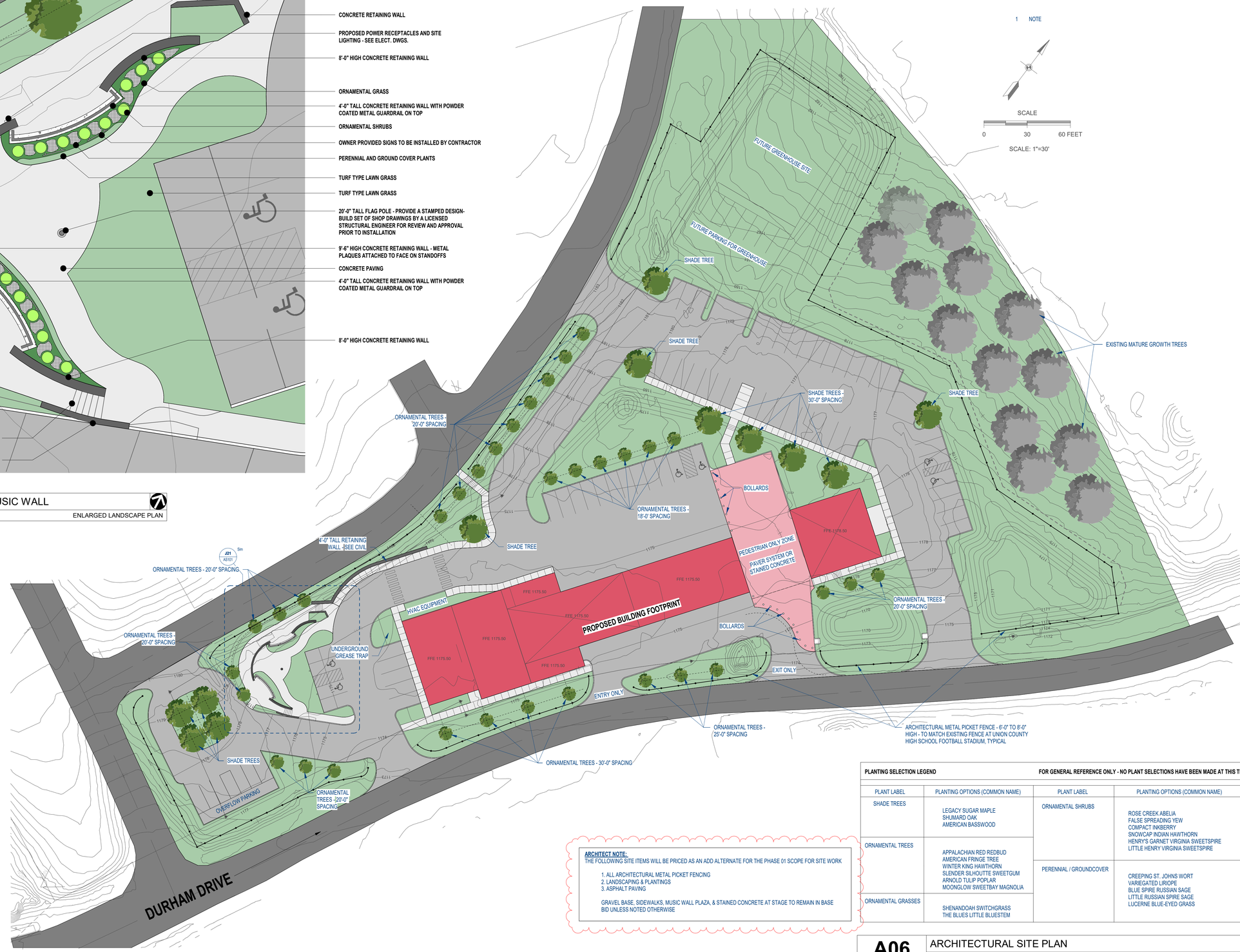
PHASE 01 DEMO PLAN - RCP

AD105

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071



J21 ENLARGED PLAN - MUSIC WALL
1/8" = 1'-0"
ENLARGED LANDSCAPE PLAN



ARCHITECT NOTE:
THE FOLLOWING SITE ITEMS WILL BE PRICED AS AN ADD ALTERNATE FOR THE PHASE 01 SCOPE FOR SITE WORK

1. ALL ARCHITECTURAL METAL PICKET FENCING
2. LANDSCAPING & PLANTINGS
3. ASPHALT PAVING

GRAVEL BASE, SIDEWALKS, MUSIC WALL PLAZA, & STAINED CONCRETE AT STAGE TO REMAIN IN BASE BID UNLESS NOTED OTHERWISE

PLANTING SELECTION LEGEND — FOR GENERAL REFERENCE ONLY - NO PLANT SELECTIONS HAVE BEEN MADE AT THIS TIME

PLANT LABEL	PLANTING OPTIONS (COMMON NAME)	PLANT LABEL	PLANTING OPTIONS (COMMON NAME)
SHADE TREES	LEGACY SUGAR MAPLE SHUMARD OAK AMERICAN BASSWOOD	ORNAMENTAL SHRUBS	ROSE CREEK ABELIA FALSE SPREADING YEW COMPACT INKBERRY SNOWCAP INDIAN HAWTHORN HENRY'S GARNET VIRGINIA SWEETSPIRE LITTLE HENRY VIRGINIA SWEETSPIRE
ORNAMENTAL TREES	APPALACHIAN RED REDBUD AMERICAN FRINGE TREE WINTER KING HAWTHORN SLENDER SILHOUTTE SWEETGUM ARNOLD TULIP POPLAR MOONGLOW SWEETBAY MAGNOLIA	PERENNIAL / GROUNDCOVER	CREEPING ST. JOHNS WORT VAREGATED LIRIOPE BLUE SPIRE RUSSIAN SAGE LITTLE RUSSIAN SPIRE SAGE LUCERNE BLUE-EYED GRASS
ORNAMENTAL GRASSES	SHENANDOAH SWITCHGRASS THE BLUES LITTLE BLUESTEM		

A06 ARCHITECTURAL SITE PLAN
1/32" = 1'-0"

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2024-04-01

PRE-DESIGN / PROPOSAL
HERITAGE PARK ADDITION
115 DURHAM DR, MAYNARDVILLE, TN 37807

NO.	ISSUED BY	DATE
0	REV 01	2024-06-28

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SHEET DESCRIPTION
ARCHITECTURAL SITE PLAN

AS101

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

6/27/2024 5:00:51 PM

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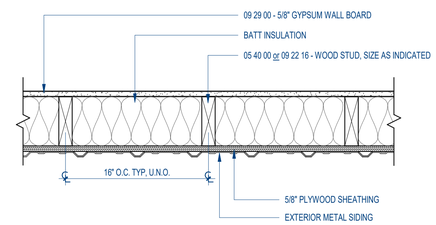

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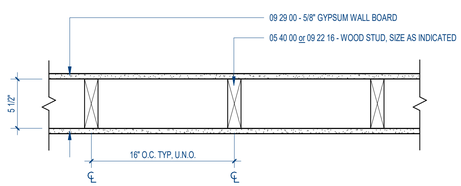

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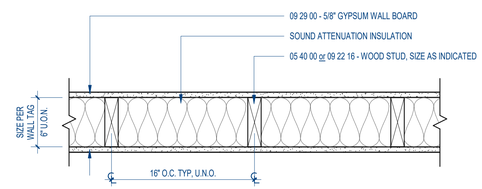

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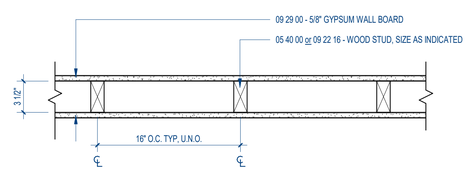

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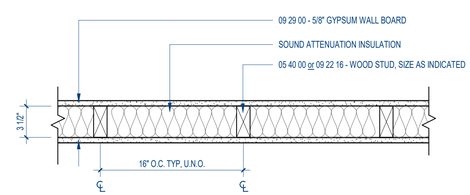

0.W4.A

GENERAL NOTES

WALL TYPES

A ALL INTERIOR WALLS NOT TAGGED TO BE WALL TYPE S3, NON-FIRE-RATED, & UP TO UNDERSIDE OF STRUCTURE UNLESS NOTED OTHERWISE.
B PROVIDE TYPE 'X' GYPSUM WALL BOARD AT ALL INTERIOR FIRE-RATED WALLS. COORDINATE ASSEMBLY REQUIREMENTS WITH UL DETAILS ON AG111+
C PROVIDE MOISTURE RESISTANT GYPSUM WALL BOARD AT ALL TOILET & LOCKER ROOMS, KITCHEN WET WALLS, & JANITOR CLOSETS. USE CEMENTITIOUS TILE BACKER-BOARD AT WALL TILE LOCATIONS.
D PROVIDE GLASS FIBER SOUND ATTENUATION BLANKETS TO FILL CAVITY AT PERIMETER OF ALL TOILET & LOCKER ROOMS, PERIMETER OF ALL CONFERENCE ROOMS, & AT SHARED DEMISING WALLS BETWEEN PRIVATE OFFICES, TYPICAL UNLESS NOTED OTHERWISE.
E REFER TO PROJECT SPECIFICATIONS FOR ALL NON-LOAD BEARING METAL STUD GAUGE REQUIREMENTS & ADDITIONAL INFORMATION.
F REFER TO STRUCTURAL FOR EXTERIOR & LOAD BEARING METAL STUDS, FOR REINFORCING REQUIREMENTS, & ADDITIONAL INFORMATION.
H ALL EXTERIOR WALLS TO BE 6" METAL STUDS UNLESS NOTED OTHERWISE. REFER TO WALL SECTIONS & ENLARGED DETAILS FOR ADDITIONAL INFORMATION.
I REFER TO SHEET G200 - PROJECT IECC INFORMATION FOR THERMAL ENVELOPE INSULATION REQUIREMENTS AT ALL EXTERIOR WALLS.
J FOR ALL TYPICAL EXTERIOR WALL ASSEMBLIES, REFER TO A300 SERIES WALL SECTIONS FOR TOP & BOTTOM OF WALL DETAILS, & A500 SERIES GLAZING ELEVATIONS FOR OPENING HEAD, JAMB, & SILL DETAILS.

GRAPHIC LEGEND

NOT TO SCALE — WALL TYPES BY PHASE & RATING

	EXISTING, NON-RATED CONSTRUCTION TO REMAIN		1 HOUR-RATED, FIRE PARTITION (IBC §708)
	EXISTING, SMOKE-RATED CONSTRUCTION TO REMAIN		1 HOUR-RATED, FIRE BARRIER (IBC §707)
	EXISTING, FIRE-RATED CONSTRUCTION TO REMAIN		1 HOUR-RATED, SHAFT-WALL FIRE BARRIER (IBC §707)
	EXISTING CONSTRUCTION TO BE DEMOLISHED		2 HOUR-RATED, FIRE PARTITION (IBC §708)
	NON-RATED WALL ASSEMBLY		2 HOUR-RATED, FIRE BARRIER (IBC §707)
	GLAZING SYSTEM, SEE ELEVATIONS & SPECS.		2 HOUR-RATED, SHAFT-WALL FIRE BARRIER (IBC §707)
	NON-RATED, SMOKE PARTITION (IBC §710)		2 HOUR-RATED, CMU FIRE BARRIER (IBC §707)
	1 HOUR-RATED, SMOKE BARRIER (IBC §709)		3 HOUR-RATED, CMU FIRE BARRIER (IBC §707)
	30 MINUTE-RATED, FIRE PARTITION (IBC §708.3)		4 HOUR-RATED CMU FIRE WALL (IBC §706)

WALL TAG CONSTRUCTION LEGEND

NOT TO SCALE

CONSTRUCTION TYPE DESIGNATION:

C. CONCRETE
CH. LIGHT GAUGE METAL STUD
G. GENERAL EXISTING / UNDESIGNATED
L. LAMINATED FINISH MATERIAL (GYP BD OVER EXISTING SURFACE)
M. CONCRETE MASONRY UNIT (C.M.U.)
S. LIGHT GAUGE METAL STUD / FURRING
SD. DOUBLE LIGHT GAUGE METAL STUD
W. WOOD STUD / FURRING
WD. DOUBLE WOOD STUD

NOTE: REFER TO UNIT SIZE DESIGNATION LIST FOR ADDITIONAL INFORMATION

FIRE RESISTANCE RATING:

0. NO FIRE RATING

S0. NON-RATED, SMOKE PARTITION
S1. 1 HOUR FIRE-RATED, SMOKE BARRIER

30. 30 MINUTE FIRE-RATED WALL ASSEMBLY
1. 1 HOUR FIRE-RATED WALL ASSEMBLY
2. 2 HOUR FIRE-RATED WALL ASSEMBLY
3. 3 HOUR FIRE-RATED WALL ASSEMBLY
4. 4 HOUR FIRE-RATED WALL ASSEMBLY

MODIFIER (SUFFIX):

BLANK = TYPICAL / AS SHOWN IN DETAIL

A. PROVIDE ACOUSTIC INSULATION PER WALL TYPE DETAIL & DESCRIPTION AND / OR PROJECT SPECIFICATION
B. PROVIDE GYP. BD. AT FINISH SIDE ONLY

C+ PROJECT SPECIFIC

WALL HEIGHT DESIGNATION:

S. WALL ASSEMBLY TO UNDERSIDE OF STRUCTURE
C. GYP. BD. TO UNDERSIDE OF ADJACENT FINISH CEILING; STUDS MAY BE CONTINUOUS TO UNDERSIDE OF STRUCTURE or PARTIAL HEIGHT STUD BRACED PER DETAIL L06 / AG301, U.N.O.
C6. GYP. BD. TO EXTEND 6" ABOVE ADJACENT FINISH CEILING
CT. UNDERSIDE OF COUNTERTOP
P. PARTIAL HEIGHT STUD, x' - xx" ABOVE FINISH FLOOR, UNCONNECTED - HEIGHT AS NOTED ON WALL TAG OR DRAWING

#.X#.X | X

UNIT SIZE DESIGNATION:

NOTE: SIZE INDICATOR ASSUMES NOM. THICKNESS

L. GYP. BD. SIZE AS INDICATED, LAMINATED DIRECTLY TO EXISTING FINISH SURFACE

0. ITEM SMALLER THAN 1" THICKNESS:
0 - 1/2" METAL HAT CHANNEL / Z-FURRING
0 - 3/4" WOOD FURRING
0 - 7/8" METAL FURRING

1. SPECIAL LIGHT GAUGE STEEL:
1" METAL Z-FURRING
1 1/2" METAL Z-FURRING
1 - 5/8" METAL STUD

2. NOMINAL 2" THICKNESS:
1 - 1/2" WOOD FURRING / BLOCKING
2" METAL Z-FURRING
2 - 1/2" METAL STUD / CH-STUD

3. 3 - 5/8" METAL STUD - TYPICAL, U.N.O.

4. NOMINAL 4" THICKNESS:
3 - 1/2" WOOD STUD (2x4)
3 - 5/8" CONCRETE MASONRY UNIT
4" CH-STUD

6. NOMINAL 6" THICKNESS:
5 - 1/2" WOOD STUD (2x6)
5 - 5/8" CONCRETE MASONRY UNIT
6" METAL STUD / CH-STUD

8. NOMINAL 8" THICKNESS:
7 - 1/4" WOOD STUDS (2x8)
7 - 5/8" CONCRETE MASONRY UNIT
8" METAL STUD

10. NOMINCAL 10" THICKNESS:
9 - 1/4" WOOD STUD (2x10)
10" METAL STUD

12. NOMINAL 12" THICKNESS:
11 - 1/4" WOOD STUD (2x12)
11 - 5/8" CONCRETE MASONRY UNIT
12" METAL STUD

NOTE: THICKNESS GREATER THAN 12" AS SHOWN PER WALL TYPE DETAIL & DESCRIPTION

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AGRICOLA ERIC
LIC. 101040
STATE OF TENNESSEE
2024-04-01

PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

NO.	ISSUED BY	DATE

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SHEET DESCRIPTION
WALL TYPES

AG100

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

4/4/2024 11:09:55 AM

GENERAL NOTES

FLOOR PLANS

A CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS CONCERNING THE SCOPE OF WORK OF THIS PROJECT PRIOR TO COMMENCING WITH THE ASSOCIATED WORK. IN THE EVENT THE DIMENSIONS ARE IN QUESTION OR IF ANY DISCREPANCIES ARE ENCOUNTERED DURING CONSTUCTION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK. FAILURE TO DO SO CONSTITUTES THE CONTRACTOR'S ACCEPTANCE OF THE WORK AS SHOWN.

B DIMENSIONS ARE TO FACE OF STUD OR FACE OF MASONRY / CONCRETE, UNLESS NOTED OTHERWISE.

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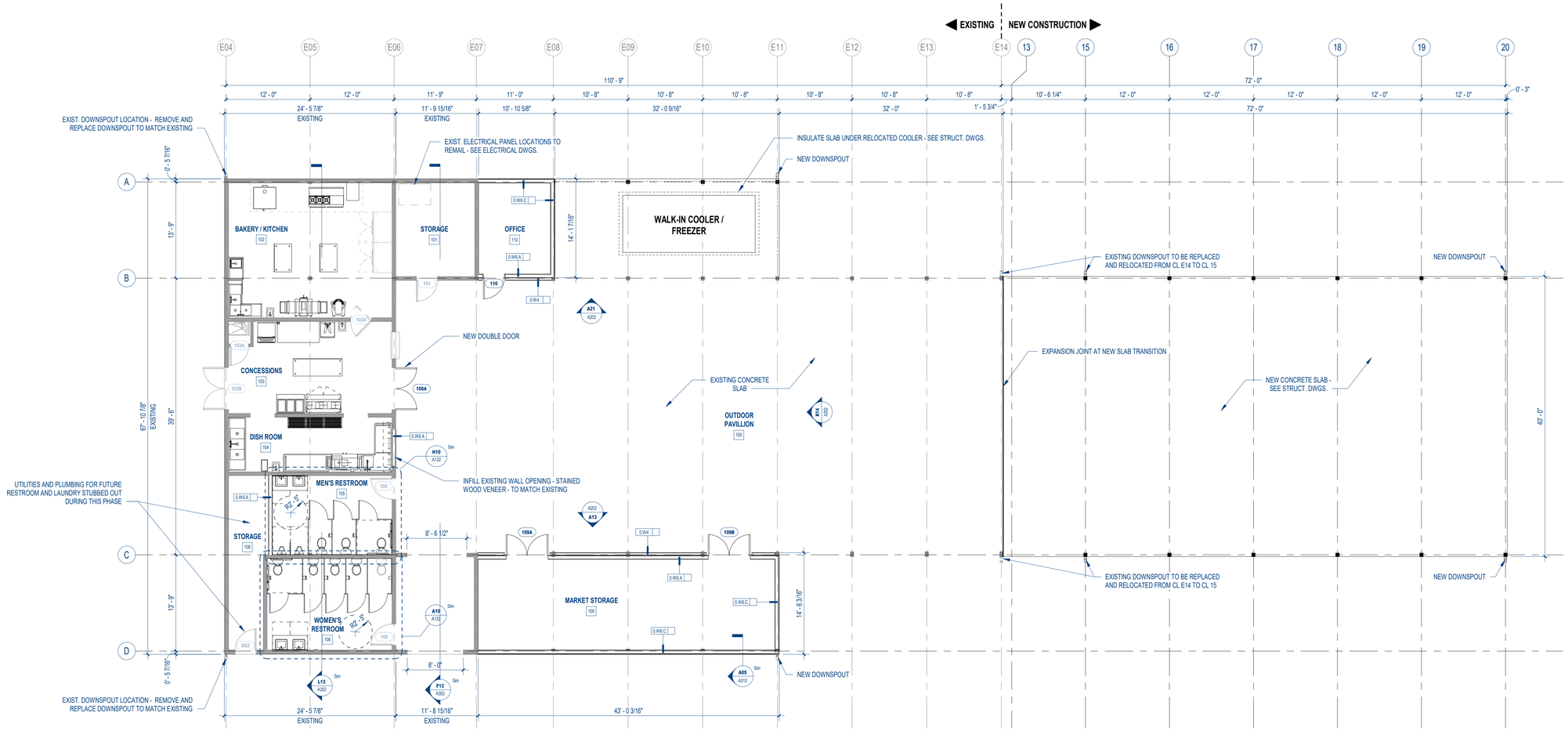

A21 FLOOR PLAN - PHASE 01 - PAVILLION ADDITION

1/8" = 1'-0"

FLOOR PLAN - NEW CONSTRUCTION - BASE BID

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PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION

FLOOR PLAN - PHASE 01 - PAVILLION EXTENSION

A101

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

4/4/2024 11:09:56 AM

GENERAL NOTES

FLOOR PLANS

A CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS CONCERNING THE SCOPE OF WORK OF THIS PROJECT PRIOR TO COMMENCING WITH THE ASSOCIATED WORK. IN THE EVENT THE DIMENSIONS ARE IN QUESTION OR IF ANY DISCREPANCIES ARE ENCOUNTERED DURING CONSTUCTION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK. FAILURE TO DO SO CONSTITUTES THE CONTRACTOR'S ACCEPTANCE OF THE WORK AS SHOWN.

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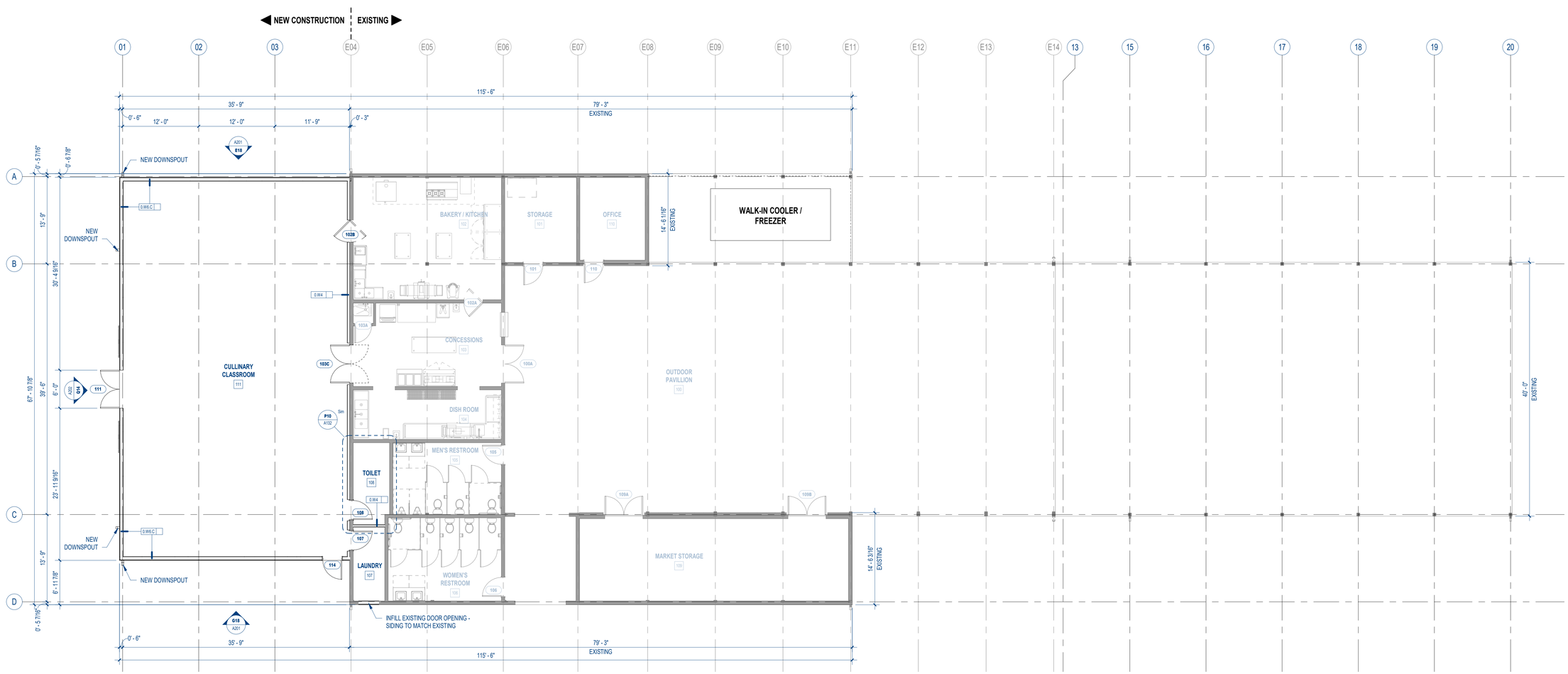

A21 FLOOR PLAN - PHASE 02 - KITCHEN ADDITION SHELL

1/8" = 1'-0" FLOOR PLAN - NEW CONSTRUCTION - PRICING ADD ALTERNATE 01

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PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION

FLOOR PLAN - PHASE 02 - COMMERCIAL KITCHEN SHELL ADDITION

A102

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

GENERAL NOTES

FLOOR PLANS

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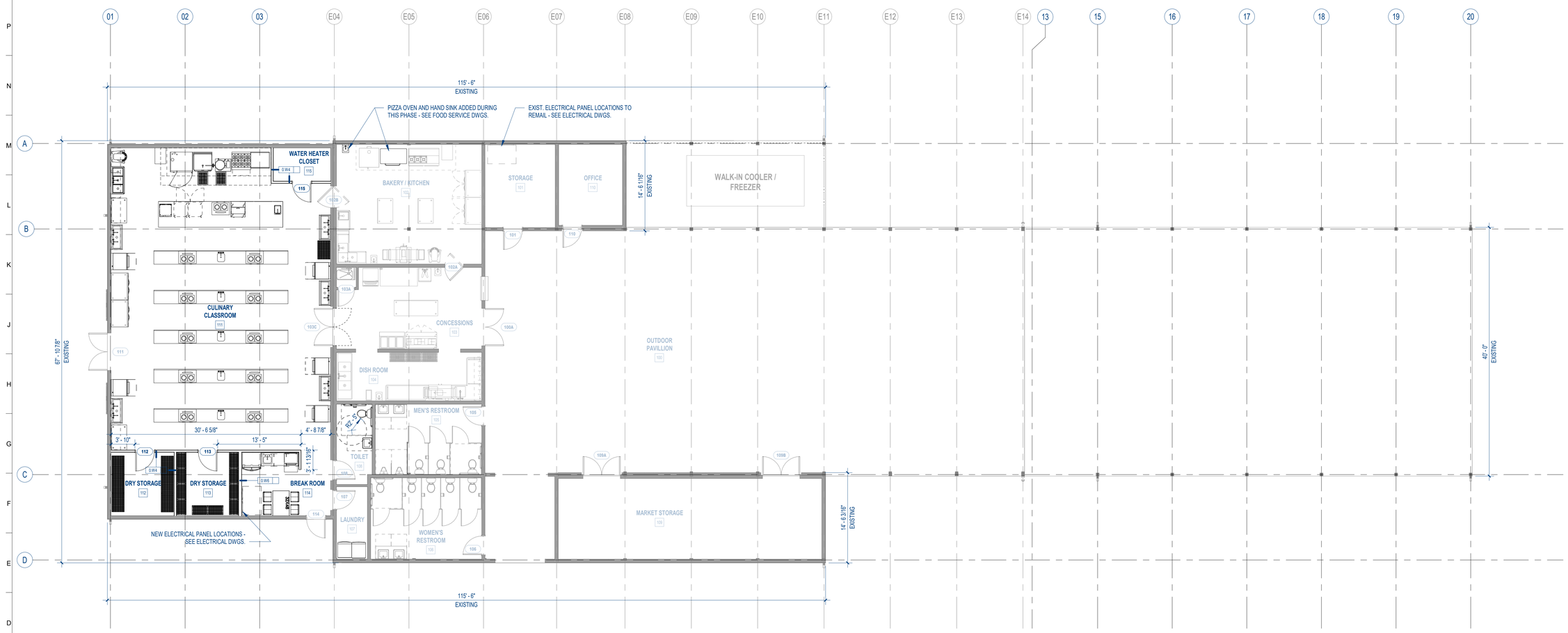

NOTE: SEE FOOD SERVICE, MECH., ELECT., AND PLUMBING PLANS FOR EXTENT OF BUILD-OUT WORK IN ALL INTERIOR KITCHEN SPACES - TYP.

A21 FLOOR PLAN - PHASE 03 - KITCHEN ADDITION BUILD-OUT

1/8" = 1'-0" FLOOR PLAN - NEW CONSTRUCTION - PRICING ADD ALTERNATE 02

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HERITAGE PARK ADDITION

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SHEET DESCRIPTION

FLOOR PLAN - PHASE 03 - COMMERCIAL KITCHEN BUILD-OUT

A103

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

4/4/2024 11:09:58 AM

GENERAL NOTES

FLOOR PLANS

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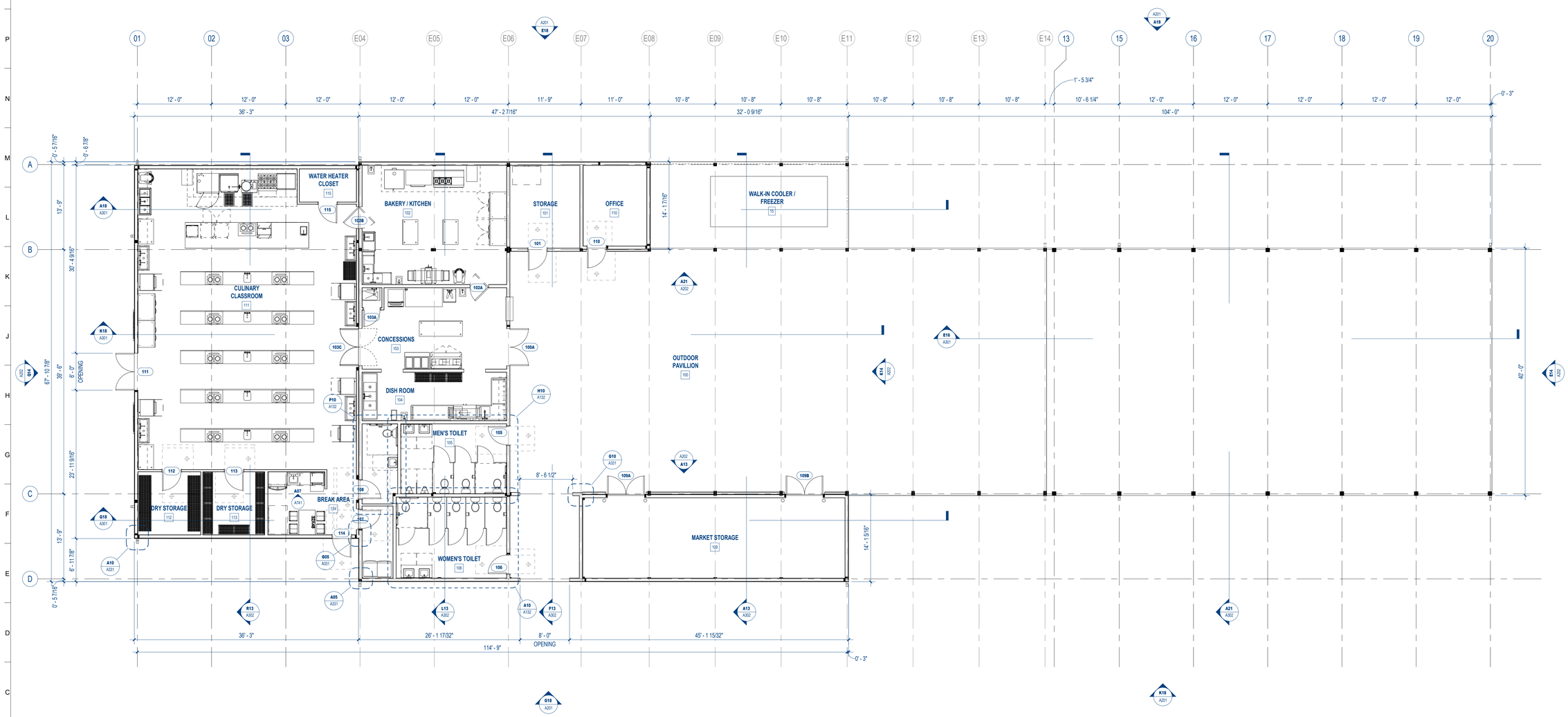

NOTE: COMPLETED PLAN FOR REFERENCE ONLY

A21 FLOOR PLAN - COMPLETED

1/8" = 1'-0" FLOOR PLAN - NEW CONSTRUCTION

4/4/2024 11:09:59 AM

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PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION

FLOOR PLAN - COMPLETED

A104

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

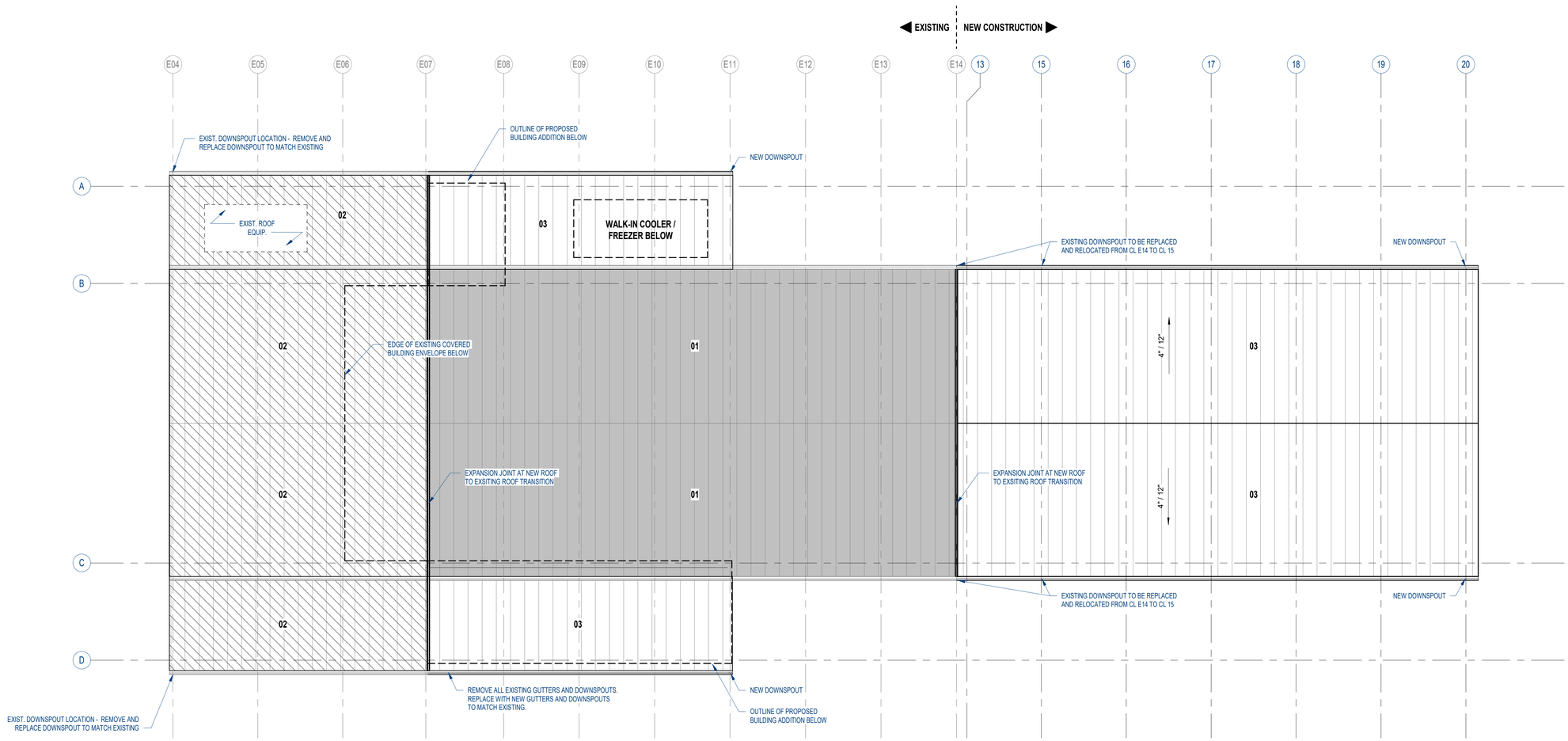
U04 GENERAL NOTES

ROOF PLAN

* ALL NEW ROOFS ON BUILIDNG ADDITIONS TO MATCH SLOPE AND MATERIAL FINSIH OF EXISTING ROOFS UNLESS OTHERWISE NOTED

ROOF LEGEND

- 01 - EXISTING TO REMAIN
- 02 - EXISTING ROOF TO BE REMOVED TO ALLOW FOR NEW DECKING TO BE INSTALLED TO STRUCTURE BELOW. EXISTING ROOF TO BE RE-INSTALLED AFTER NEW DECKING.
  - SEE STRUCTURAL FOR MORE DETAILED INFORMATION
  - SEE ROOF PLAN FOR EXTENTS OF INSTALLATION
- 03 - NEW ROOF CONSTRUCTION



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PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION

ROOF PLAN - PHASE 01 - PAVILLION EXTENSION

A111

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

A21 ROOF PLAN - PHASE 01 - PAVILLION EXTENSION

1/8" = 1'-0" ROOF PLAN - NEW CONSTRUCTION - BASE BID

4/4/2024 11:10:00 AM

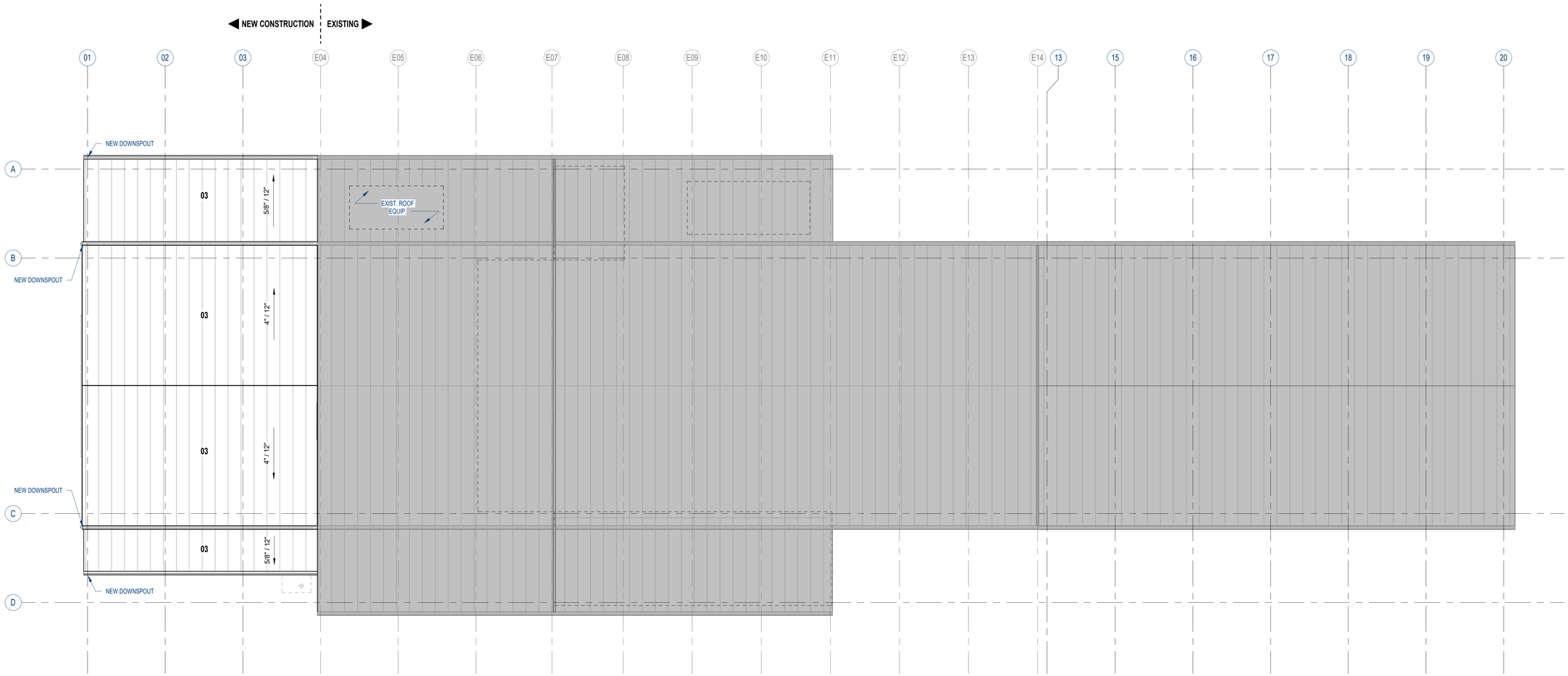
U04 GENERAL NOTES

ROOF PLAN

* ALL NEW ROOFS ON BUILIDNG ADDITIONS TO MATCH SLOPE AND MATERIAL FINSIH OF EXISTING ROOFS UNLESS OTHERWISE NOTED

ROOF LEGEND

- 01 - EXISTING TO REMAIN
- 02 - EXISTING ROOF TO BE REMOVED TO ALLOW FOR NEW DECKING TO BE INSTALLED TO STRUCTURE BELOW. EXISTING ROOF TO BE RE-INSTALLED AFTER NEW DECKING.
  - SEE STRUCTURAL FOR MORE DETAILED INFORMATION
  - SEE ROOF PLAN FOR EXTENTS OF INSTALLATION
- 03 - NEW ROOF CONSTRUCTION



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SHEET DESCRIPTION

ROOF PLAN - PHASE 02 - KITCHEN ADDITION SHELL

A112

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

A21 ROOF PLAN - PHASE 02 - KITCHEN ADDITION

1/8" = 1'-0" ROOF PLAN - NEW CONSTRUCTION - PRICING ADD ALTERNATE 01

4/4/2024 11:10:00 AM

U04 GENERAL NOTES

ROOF PLAN

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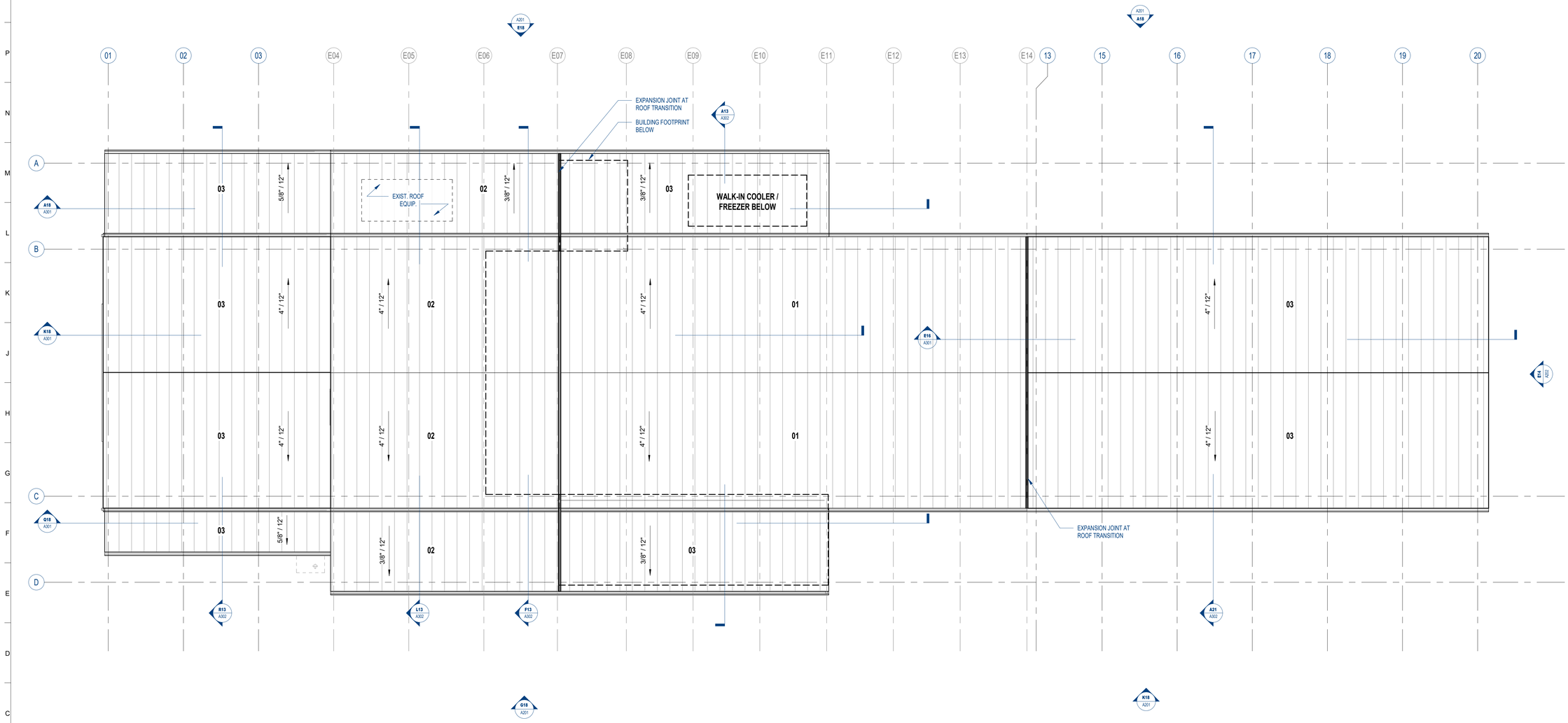
ROOF LEGEND

01 - EXISTING TO REMAIN

02 - EXISTING ROOF TO BE REMOVED TO ALLOW FOR NEW DECKING TO BE INSTALLED TO STRUCTURE BELOW. EXISTING ROOF TO BE RE-INSTALLED AFTER NEW DECKING.
- SEE STRUCTURAL FOR MORE DETAILED INFORMATION
- SEE ROOF PLAN FOR EXTENTS OF INSTALLATION

03 - NEW ROOF CONSTRUCTION



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GREGORY SCOTT CAMPBELL
REGISTERED ARCHITECT
AGRICOLA
LIC. 101040
STATE OF TENNESSEE
2024-04-01

PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

NO.	ISSUED BY	DATE

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SHEET DESCRIPTION

ROOF PLAN - COMPLETED

A113

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

NOTE: COMPLETED PLAN FOR REFERENCE ONLY

A21 ROOF PLAN - COMPLETED

1/8" = 1'-0" ROOF PLAN - NEW CONSTRUCTION

4/4/2024 11:10:01 AM

ROOM FINISH LEGEND

NOT TO SCALE

SURFACE	FINISH DESIGNATION	MATERIAL	MANUFACTURER	STYLE NAME OR NUMBER	COLOR NAME	NOTES
FLOOR	EPX-1	EPOXY	C.A. REED	TBD	TBD	--
FLOOR	CONC-1	SEALED CONCRETE	--	--	--	--
BASE	RB-1	RUBBER BASE	JOHNSONITE	TBD	TBD	--
BASE	WB-1	WOOD BASE	TBD	TBD	TBD	--
BASE	EB-1	EPOXY COVE BASE	TBD	TBD	TBD	--
WALL	FRD-1	FIBER REINFORCED PLASTIC	TBD	TBD	TBD	--
WALL	SSTL	STAINLESS STEEL WP	TBD	TBD	TBD	--
WALL	PT-1	PAINT	SHERWIN WILLIAMS	EGSHELL	SW7647 CRUSHED ICE	--
WALL	CG-1	CORNER GUARD	TBD	STEEL ANGLE	SSTL	2" RETURN
WALL	CG-2	CORNER GUARD	TBD	18 GUAGE STAINLESS STEEL	SSTL	--
WALL	WD-1	WOOD	TBD	MATCH EXIST.	MATCH EXIST.	--
WALL	TL-1	FLOOR TILE	TBD	TBD	TBD	--
CEILING	ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	TBD	TBD	REGULAR 2x2
CEILING	ACT-2	ACOUSTIC CEILING TILE	ARMSTRONG	TBD	TBD	WASHABLE 2x2
CEILING	PT-2	PAINT	SHERWIN WILLIAMS	FLAT	SW7007 CEILING BRIGHT WHITE	--

ROOM FINISH SCHEDULE

NOT TO SCALE

ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING MATERIAL	CEILING FINISH	NOTES
101	STORAGE	EXIST.	EXIST.	PT-1	GYP.	PT-2	--
102	BAKERY/ KITCHEN	EPX-1	EB-1	FRP-1	GYP.	FRP-1	CONTRACTOR TO ALSO PRICE TILE AND STAINLESS WALL FINISH AS ALT.
103	CONCESSION	EPX-1	EB-1	FRP-1	GYP.	PT-2	CONTRACTOR TO ALSO PRICE TILE AND STAINLESS WALL FINISH AS ALT.
104	DISH ROOM	EPX-1	EB-1	FRP-1	GYP.	PT-2	--
105	MEN'S TOILET	EPX-1	EB-1	TL-1	GYP.	PT-2	--
106	WOMEN'S TOILET	EPX-1	EB-1	TL-1	GYP.	PT-2	--
107	LAUNDRY	EPX-1	EB-1	PT-1	GYP.	PT-2	--
108	TOILET	EPX-1	EB-1	FRP-1 / PT-1	GYP.	PT-2	--
109	MARKET STORAGE	CONC-1	WB-1	PT-1	GYP.	PT-2	--
110	OFFICE	CONC-1	WB-1	PT-1	GYP.	PT-2	--
111	CULLINARY CLASSROOM	EPX-1	EB-1	FRP-1 / SSTL	GYP. / ACT-2	PT-2	--
112	DRY STORAGE	EPX-1	EB-1	FRP-1	GYP.	PT-2	ALT. FLOOR FINISH CONC-1 PER OWNDER DIRECTION
113	DRY STORAGE	EPX-1	EB-1	FRP-1	GYP.	PT-2	ALT. FLOOR FINISH CONC-1 PER OWNDER DIRECTION
114	BREAK AREA	EPX-1	EB-1	PT-1	GYP.	PT-2	ALT. FLOOR FINISH CONC-1 PER OWNDER DIRECTION
115	WATER HEATER CLOSET	EPX-1	EB-1	PT-1	GYP.	PT-2	ALT. FLOOR FINISH CONC-1 PER OWNDER DIRECTION
100	OUTDOOR PAVILLION	EXIST.	WB-1	WD-2 / PT-1	N/A	N/A	WOOD BASE @ EXT. STORAGE WALLS TO MATCH EXIST.

U08 GRAPHIC LEGEND

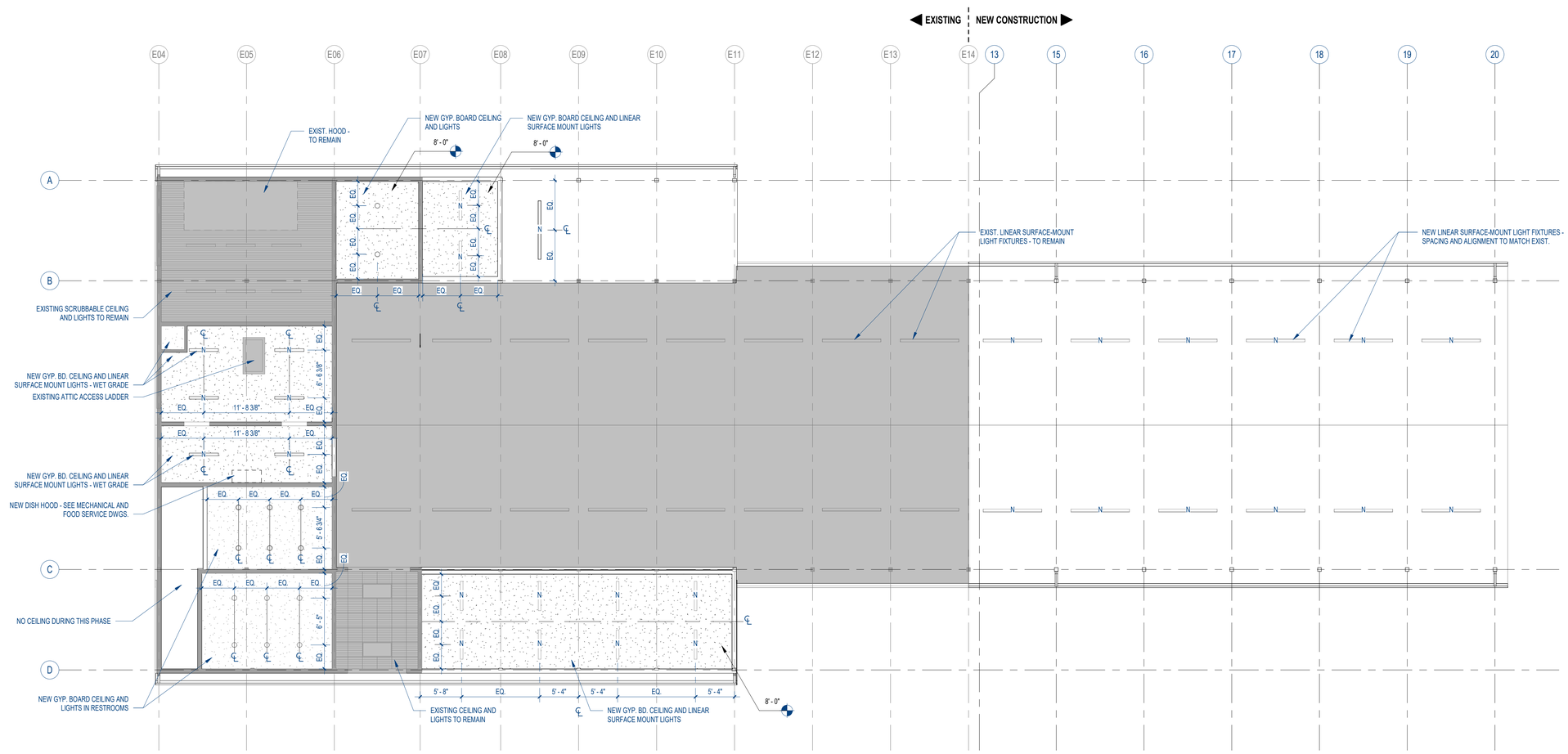
NOT TO SCALE — REFLECTED CEILING PLANS

	1T - 2' x 2' ACOUSTIC CEILING TILE		RECESSED CAN LIGHT
	2T - 2' x 2' SCRUBBABLE ACOUSTIC CEILING TILE		SLOT DIFFUSER
	GYP - GYPSUM BOARD CEILING		DIFFUSER - SUPPLY
	2' x 4' LED FIXTURE - EXISTING		DIFFUSER - RETURN
N	2' x 4' LED FIXTURE - NEW		SPRINKLER HEAD
	2' x 2' LED FIXTURE - EXISTING		EXIT SIGN
N	2' x 2' LED FIXTURE - NEW		EMERGENCY LIGHT FIXTURE
	LINEAR SURFACE MOUNTED LIGHT - EXISTING		WALL SCONCE
N	LINEAR SURFACE MOUNTED LIGHT - NEW		TRACK LIGHT

U04 GENERAL NOTES

REFLECTED CEILING PLANS

A ALL CEILING HEIGHTS ARE ABOVE FINISH FLOOR ELEVATION.
B COORDINATE INSTALLATION OF SPRINKLER HEADS WITH ARCHITECT UPON SHOP DRAWING SUBMITTAL.
C DIMENSIONS ON REFLECTED CEILING PLAN ARE SHOWN TO FACE OF GYPSUM BOARD UNLESS NOTED OTHERWISE.
D ALL EXIT SIGNS, LIGHT FIXTURES, SPEAKERS, AUDIO VISUAL DEVICES, SMOKE DETECTORS AND/OR OTHER DEVICE LOCATIONS SHOWN IN THE REFLECTED CEILING PLAN SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE OR PANELS UNLESS NOTED OTHERWISE.
E PROVIDE SEISMIC BRACING AS REQUIRED BY LOCAL CODE.



A21

RCP - PHASE 01 - PAVILLION EXTENSION

1/8" = 1'-0" — REFLECTED CEILING PLAN - NEW CONSTRUCITON - BASE BID

4/4/2024 11:10:02 AM

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PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION

RCP - PHASE 01 - PAVILLION EXTENSION

A121

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

ROOM FINISH LEGEND

NOT TO SCALE

SURFACE	FINISH DESIGNATION	MATERIAL	MANUFACTURER	STYLE NAME OR NUMBER	COLOR NAME	NOTES
FLOOR	EPX-1	EPOXY	C.A. REED	TBD	TBD	--
FLOOR	CONC-1	SEALED CONCRETE	--	--	--	--
BASE	RB-1	RUBBER BASE	JOHNSONITE	TBD	TBD	--
BASE	WB-1	WOOD BASE	TBD	TBD	TBD	--
BASE	EB-1	EPOXY COVE BASE	TBD	TBD	TBD	--
WALL	FRD-1	FIBER REINFORCED PLASTIC	TBD	TBD	TBD	--
WALL	SSTL	STAINLESS STEEL WP	TBD	TBD	TBD	--
WALL	PT-1	PAINT	SHERWIN WILLIAMS	EGSHELL	SW7647 CRUSHED ICE	--
WALL	CG-1	CORNER GUARD	TBD	STEEL ANGLE	SSTL	2" RETURN
WALL	CG-2	CORNER GUARD	TBD	18 GUAGE STAINLESS STEEL	SSTL	--
WALL	WD-1	WOOD	TBD	MATCH EXIST.	MATCH EXIST.	--
WALL	TL-1	FLOOR TILE	TBD	TBD	TBD	--
CEILING	ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	TBD	TBD	REGULAR 2x2
CEILING	ACT-2	ACOUSTIC CEILING TILE	ARMSTRONG	TBD	TBD	WASHABLE 2x2
CEILING	PT-2	PAINT	SHERWIN WILLIAMS	FLAT	SW7007 CEILING BRIGHT WHITE	--

ROOM FINISH SCHEDULE

NOT TO SCALE

ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING MATERIAL	CEILING FINISH	NOTES
101	STORAGE	EXIST.	EXIST.	PT-1	GYP.	PT-2	--
102	BAKERY/ KITCHEN	EPX-1	EB-1	FRP-1	GYP.	FRP-1	CONTRACTOR TO ALSO PRICE TILE AND STAINLESS WALL FINISH AS ALT.
103	CONCESSION	EPX-1	EB-1	FRP-1	GYP.	PT-2	CONTRACTOR TO ALSO PRICE TILE AND STAINLESS WALL FINISH AS ALT.
104	DISH ROOM	EPX-1	EB-1	FRP-1	GYP.	PT-2	--
105	MEN'S TOILET	EPX-1	EB-1	TL-1	GYP.	PT-2	--
106	WOMEN'S TOILET	EPX-1	EB-1	TL-1	GYP.	PT-2	--
107	LAUNDRY	EPX-1	EB-1	PT-1	GYP.	PT-2	--
108	TOILET	EPX-1	EB-1	FRP-1 / PT-1	GYP.	PT-2	--
109	MARKET STORAGE	CONC-1	WB-1	PT-1	GYP.	PT-2	--
110	OFFICE	CONC-1	WB-1	PT-1	GYP.	PT-2	--
111	CULLINARY CLASSROOM	EPX-1	EB-1	FRP-1 / SSTL	GYP. / ACT-2	PT-2	--
112	DRY STORAGE	EPX-1	EB-1	FRP-1	GYP.	PT-2	ALT. FLOOR FINISH CONC-1 PER OWNDER DIRECTION
113	DRY STORAGE	EPX-1	EB-1	FRP-1	GYP.	PT-2	ALT. FLOOR FINISH CONC-1 PER OWNDER DIRECTION
114	BREAK AREA	EPX-1	EB-1	PT-1	GYP.	PT-2	ALT. FLOOR FINISH CONC-1 PER OWNDER DIRECTION
115	WATER HEATER CLOSET	EPX-1	EB-1	PT-1	GYP.	PT-2	ALT. FLOOR FINISH CONC-1 PER OWNDER DIRECTION
100	OUTDOOR PAVILLION	EXIST.	WB-1	WD-2 / PT-1	N/A	N/A	WOOD BASE @ EXT. STORAGE WALLS TO MATCH EXIST.

U08 GRAPHIC LEGEND

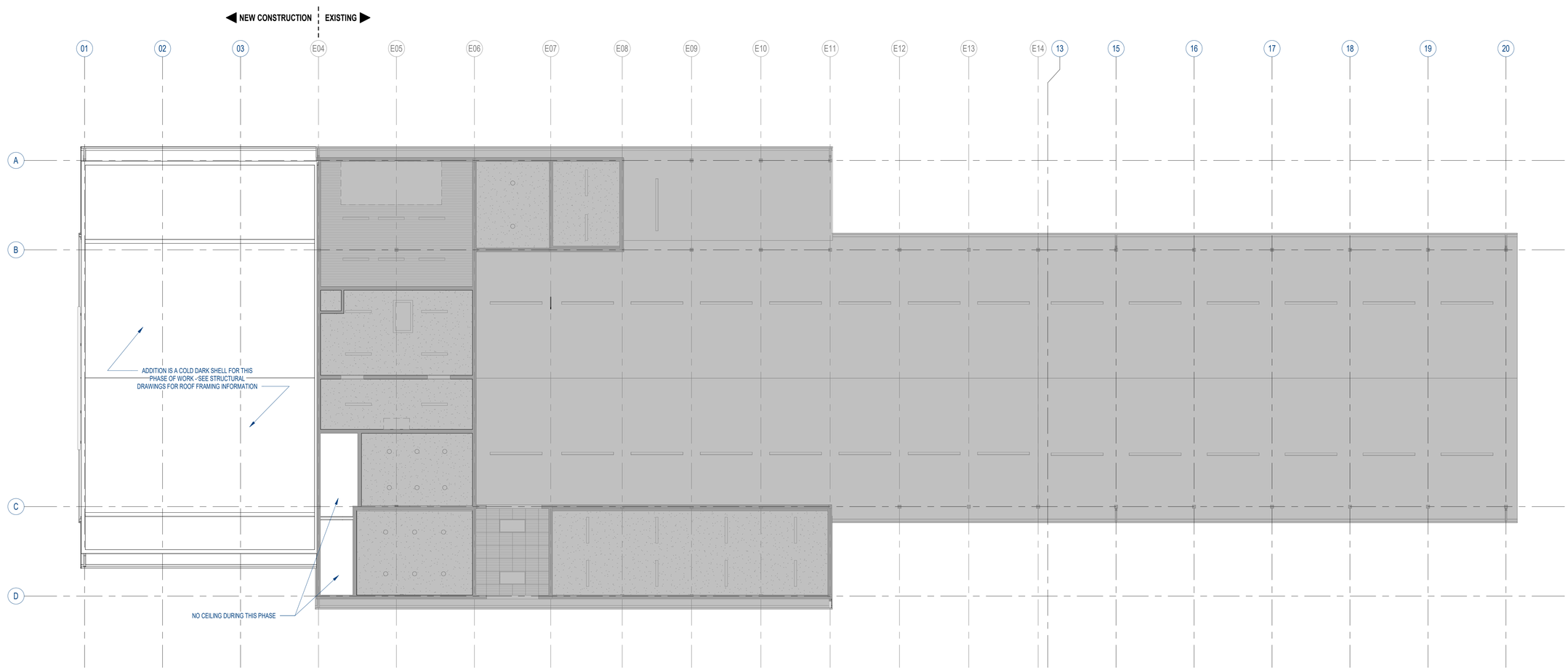
NOT TO SCALE — REFLECTED CEILING PLANS

	1T - 2' x 2' ACOUSTIC CEILING TILE		RECESSED CAN LIGHT
	2T - 2' x 2' SCRUBBABLE ACOUSTIC CEILING TILE		SLOT DIFFUSER
	GYP - GYPSUM BOARD CEILING		DIFFUSER - SUPPLY
	2' x 4' LED FIXTURE - EXISTING		DIFFUSER - RETURN
N	2' x 4' LED FIXTURE - NEW		SPRINKLER HEAD
	2' x 2' LED FIXTURE - EXISTING		EXIT SIGN
N	2' x 2' LED FIXTURE - NEW		EMERGENCY LIGHT FIXTURE
	LINEAR SURFACE MOUNTED LIGHT - EXISTING		WALL SCONCE
N	LINEAR SURFACE MOUNTED LIGHT - NEW		TRACK LIGHT

U04 GENERAL NOTES

REFLECTED CEILING PLANS

A ALL CEILING HEIGHTS ARE ABOVE FINISH FLOOR ELEVATION.
B COORDINATE INSTALLATION OF SPRINKLER HEADS WITH ARCHITECT UPON SHOP DRAWING SUBMITTAL.
C DIMENSIONS ON REFLECTED CEILING PLAN ARE SHOWN TO FACE OF GYPSUM BOARD UNLESS NOTED OTHERWISE.
D ALL EXIT SIGNS, LIGHT FIXTURES, SPEAKERS, AUDIO VISUAL DEVICES, SMOKE DETECTORS AND/OR OTHER DEVICE LOCATIONS SHOWN IN THE REFLECTED CEILING PLAN SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE OR PANELS UNLESS NOTED OTHERWISE.
E PROVIDE SEISMIC BRACING AS REQUIRED BY LOCAL CODE.



A21

RCP - PHASE 02 - KITCHEN ADDITION SHELL

1/8" = 1'-0" REFLECTED CEILING PLAN - NEW CONSTRUCTION - ADD ALTERNATE 01

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PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION

RCP - PHASE 02 - COMMERCIAL KITCHEN SHELL ADDITION

A122

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

4/4/2024 11:10:03 AM

ROOM FINISH LEGEND

NOT TO SCALE

SURFACE	FINISH DESIGNATION	MATERIAL	MANUFACTURER	STYLE NAME OR NUMBER	COLOR NAME	NOTES
FLOOR	EPX-1	EPOXY	C.A. REED	TBD	TBD	--
FLOOR	CONC-1	SEALED CONCRETE	--	--	--	--
BASE	RB-1	RUBBER BASE	JOHNSONITE	TBD	TBD	--
BASE	WB-1	WOOD BASE	TBD	TBD	TBD	--
BASE	EB-1	EPOXY COVE BASE	TBD	TBD	TBD	--
WALL	FRD-1	FIBER REINFORCED PLASTIC	TBD	TBD	TBD	--
WALL	SSTL	STAINLESS STEEL WP	TBD	TBD	TBD	--
WALL	PT-1	PAINT	SHERWIN WILLIAMS	EGSHELL	SW7647 CRUSHED ICE	--
WALL	CG-1	CORNER GUARD	TBD	STEEL ANGLE	SSTL	2" RETURN
WALL	CG-2	CORNER GUARD	TBD	18 GUAGE STAINLESS STEEL	SSTL	--
WALL	WD-1	WOOD	TBD	MATCH EXIST.	MATCH EXIST.	--
WALL	TL-1	FLOOR TILE	TBD	TBD	TBD	--
CEILING	ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	TBD	TBD	REGULAR 2x2
CEILING	ACT-2	ACOUSTIC CEILING TILE	ARMSTRONG	TBD	TBD	WASHABLE 2x2
CEILING	PT-2	PAINT	SHERWIN WILLIAMS	FLAT	SW7007 CEILING BRIGHT WHITE	--

ROOM FINISH SCHEDULE

NOT TO SCALE

ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING MATERIAL	CEILING FINISH	NOTES
101	STORAGE	EXIST.	EXIST.	PT-1	GYP.	PT-2	--
102	BAKERY/ KITCHEN	EPX-1	EB-1	FRP-1	GYP.	FRP-1	CONTRACTOR TO ALSO PRICE TILE AND STAINLESS WALL FINISH AS ALT.
103	CONCESSION	EPX-1	EB-1	FRP-1	GYP.	PT-2	CONTRACTOR TO ALSO PRICE TILE AND STAINLESS WALL FINISH AS ALT.
104	DISH ROOM	EPX-1	EB-1	FRP-1	GYP.	PT-2	--
105	MEN'S TOILET	EPX-1	EB-1	TL-1	GYP.	PT-2	--
106	WOMEN'S TOILET	EPX-1	EB-1	TL-1	GYP.	PT-2	--
107	LAUNDRY	EPX-1	EB-1	PT-1	GYP.	PT-2	--
108	TOILET	EPX-1	EB-1	FRP-1 / PT-1	GYP.	PT-2	--
109	MARKET STORAGE	CONC-1	WB-1	PT-1	GYP.	PT-2	--
110	OFFICE	CONC-1	WB-1	PT-1	GYP.	PT-2	--
111	CULLINARY CLASSROOM	EPX-1	EB-1	FRP-1 / SSTL	GYP. / ACT-2	PT-2	--
112	DRY STORAGE	EPX-1	EB-1	FRP-1	GYP.	PT-2	ALT. FLOOR FINISH CONC-1 PER OWNDER DIRECTION
113	DRY STORAGE	EPX-1	EB-1	FRP-1	GYP.	PT-2	ALT. FLOOR FINISH CONC-1 PER OWNDER DIRECTION
114	BREAK AREA	EPX-1	EB-1	PT-1	GYP.	PT-2	ALT. FLOOR FINISH CONC-1 PER OWNDER DIRECTION
115	WATER HEATER CLOSET	EPX-1	EB-1	PT-1	GYP.	PT-2	ALT. FLOOR FINISH CONC-1 PER OWNDER DIRECTION
100	OUTDOOR PAVILLION	EXIST.	WB-1	WD-2 / PT-1	N/A	N/A	WOOD BASE @ EXT. STORAGE WALLS TO MATCH EXIST.

U08 GRAPHIC LEGEND

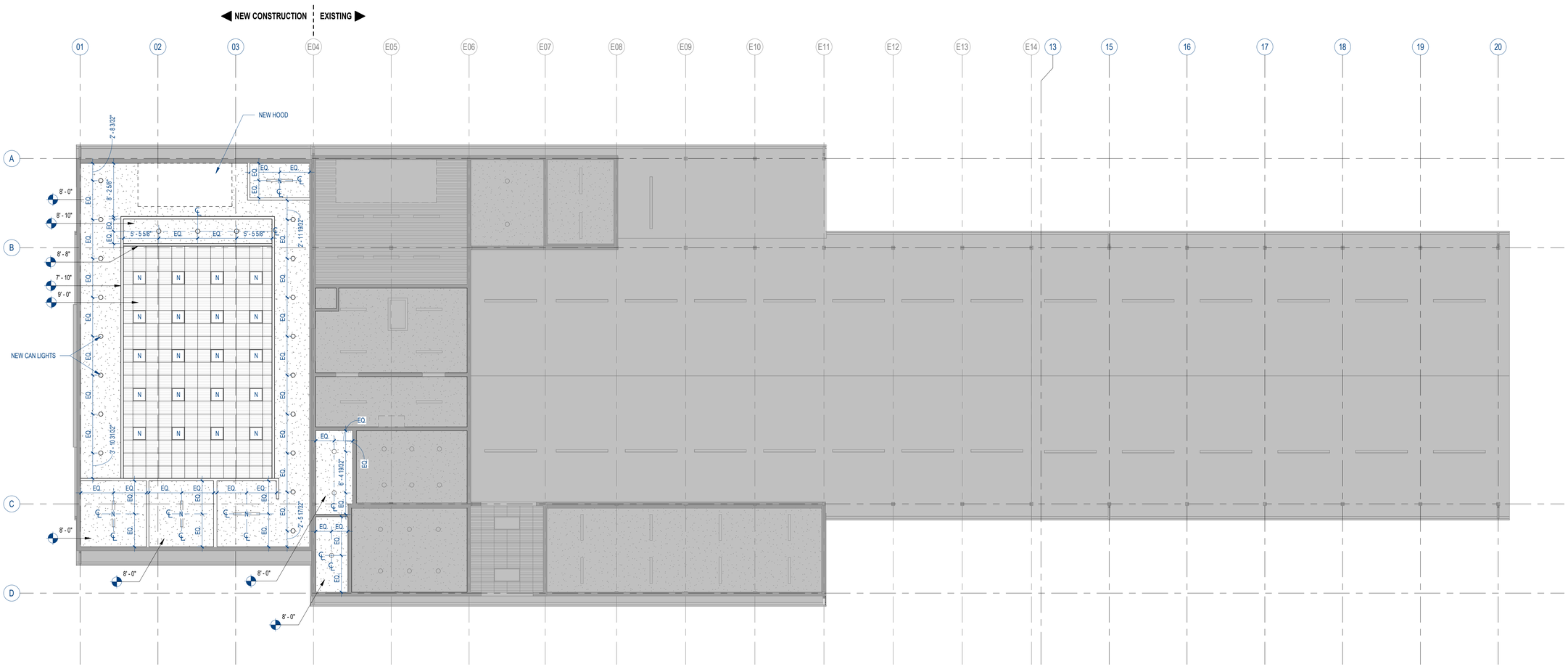
NOT TO SCALE — REFLECTED CEILING PLANS

	1T - 2' x 2' ACOUSTIC CEILING TILE		RECESSED CAN LIGHT
	2T - 2' x 2' SCRUBBABLE ACOUSTIC CEILING TILE		SLOT DIFFUSER
	GYP - GYPSUM BOARD CEILING		DIFFUSER - SUPPLY
	2' x 4' LED FIXTURE - EXISTING		DIFFUSER - RETURN
N	2' x 4' LED FIXTURE - NEW		SPRINKLER HEAD
	2' x 2' LED FIXTURE - EXISTING		EXIT SIGN
N	2' x 2' LED FIXTURE - NEW		EMERGENCY LIGHT FIXTURE
	LINEAR SURFACE MOUNTED LIGHT - EXISTING		WALL SCONCE
N	LINEAR SURFACE MOUNTED LIGHT - NEW		TRACK LIGHT

U04 GENERAL NOTES

REFLECTED CEILING PLANS

A ALL CEILING HEIGHTS ARE ABOVE FINISH FLOOR ELEVATION.
B COORDINATE INSTALLATION OF SPRINKLER HEADS WITH ARCHITECT UPON SHOP DRAWING SUBMITTAL.
C DIMENSIONS ON REFLECTED CEILING PLAN ARE SHOWN TO FACE OF GYPSUM BOARD UNLESS NOTED OTHERWISE.
D ALL EXIT SIGNS, LIGHT FIXTURES, SPEAKERS, AUDIO VISUAL DEVICES, SMOKE DETECTORS AND/OR OTHER DEVICE LOCATIONS SHOWN IN THE REFLECTED CEILING PLAN SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE OR PANELS UNLESS NOTED OTHERWISE.
E PROVIDE SEISMIC BRACING AS REQUIRED BY LOCAL CODE.



A21

RCP - PHASE 03 - KITCHEN ADDITION BUILD-OUT

1/8" = 1'-0" REFLECTED CEILING PLAN - NEW CONSTRUCTION - ADD ALTERNATE 02

4/4/2024 11:10:04 AM

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GREGORY SCOTT CAMPBELL REGISTERED ARCHITECT AGRICULTURE ERA No. 101040 STATE OF TENNESSEE 2024-04-01

PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

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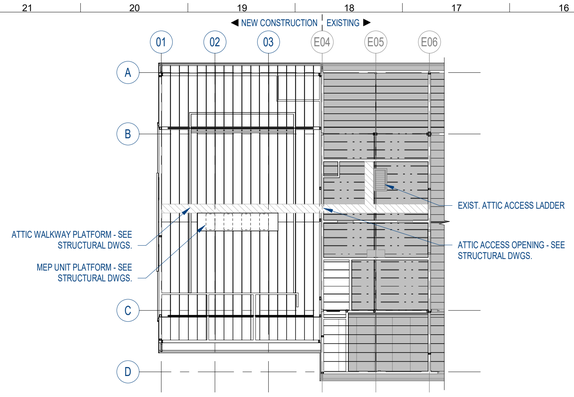
SHEET DESCRIPTION

RCP - PHASE 03 - COMMERCIAL KITCHEN BUILD OUT

A123

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071



Q21 ATTIC ACCESS DIAGRAM

1/16" = 1'-0" EXISTING-NEW ATTIC ACCESS

U08 GRAPHIC LEGEND

NOT TO SCALE REFLECTED CEILING PLANS

	1T - 2' x 2' ACOUSTIC CEILING TILE		RECESSED CAN LIGHT
	2T - 2' x 2' SCRUBBABLE ACOUSTIC CEILING TILE		SLOT DIFFUSER
	GYP - GYPSUM BOARD CEILING		DIFFUSER - SUPPLY
	2' x 4' LED FIXTURE - EXISTING		DIFFUSER - RETURN
N	2' x 4' LED FIXTURE - NEW		SPRINKLER HEAD
	2' x 2' LED FIXTURE - EXISTING		EXIT SIGN
N	2' x 2' LED FIXTURE - NEW		EMERGENCY LIGHT FIXTURE
	LINEAR SURFACE MOUNTED LIGHT - EXISTING		WALL SCONCE
N	LINEAR SURFACE MOUNTED LIGHT - NEW		TRACK LIGHT

U04 GENERAL NOTES

REFLECTED CEILING PLANS

A ALL CEILING HEIGHTS ARE ABOVE FINISH FLOOR ELEVATION.
B COORDINATE INSTALLATION OF SPRINKLER HEADS WITH ARCHITECT UPON SHOP DRAWING SUBMITTAL.
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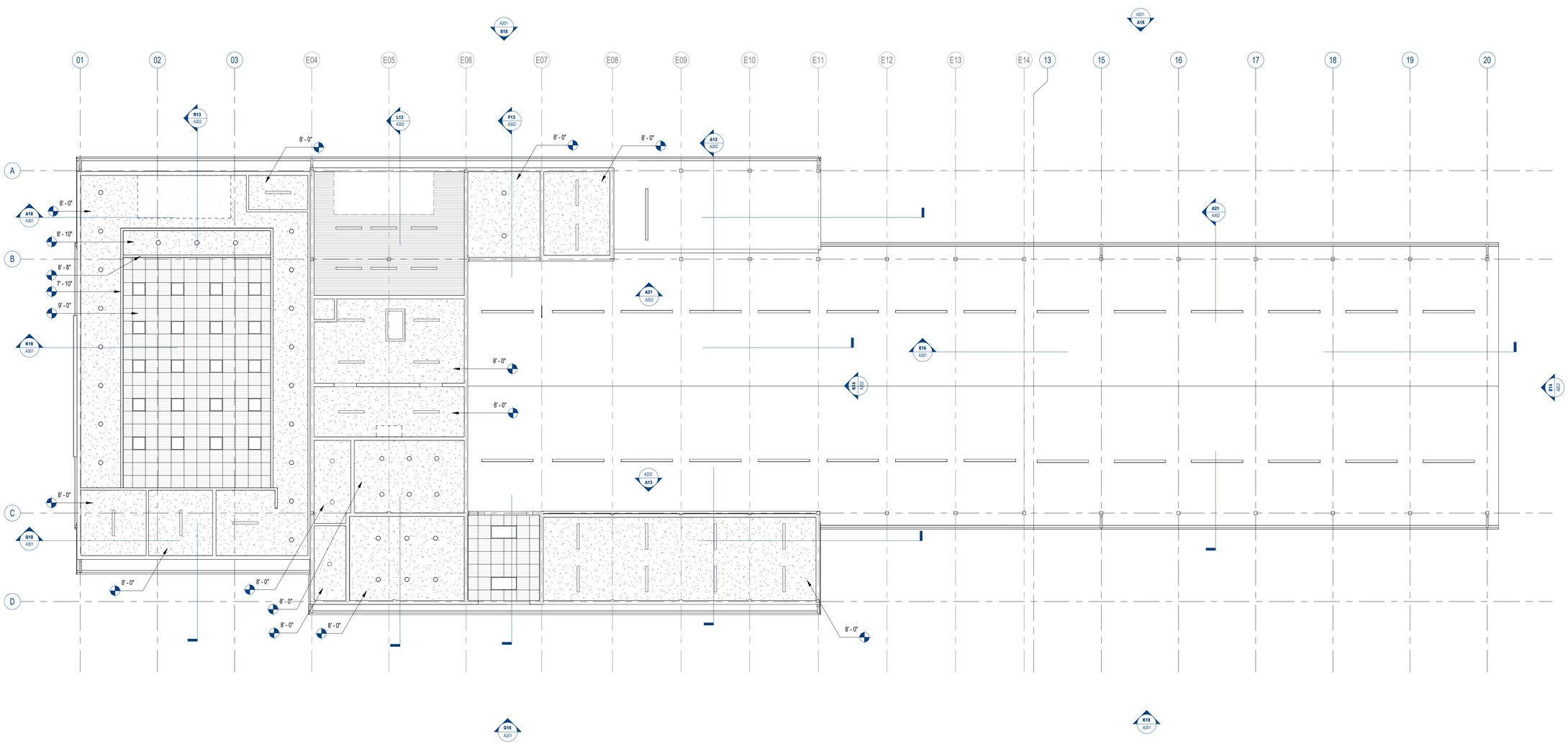
D ALL EXIT SIGNS, LIGHT FIXTURES, SPEAKERS, AUDIO VISUAL DEVICES, SMOKE DETECTORS AND/OR OTHER DEVICE LOCATIONS SHOWN IN THE REFLECTED CEILING PLAN SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE OR PANELS UNLESS NOTED OTHERWISE.
E PROVIDE SEISMIC BRACING AS REQUIRED BY LOCAL CODE.



A21 RCP - COMPLETED

1/8" = 1'-0" REFLECTED CEILING PLAN - NEW CONSTRUCITON

NOTE: COMPLETED PLAN FOR REFERENCE ONLY

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PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

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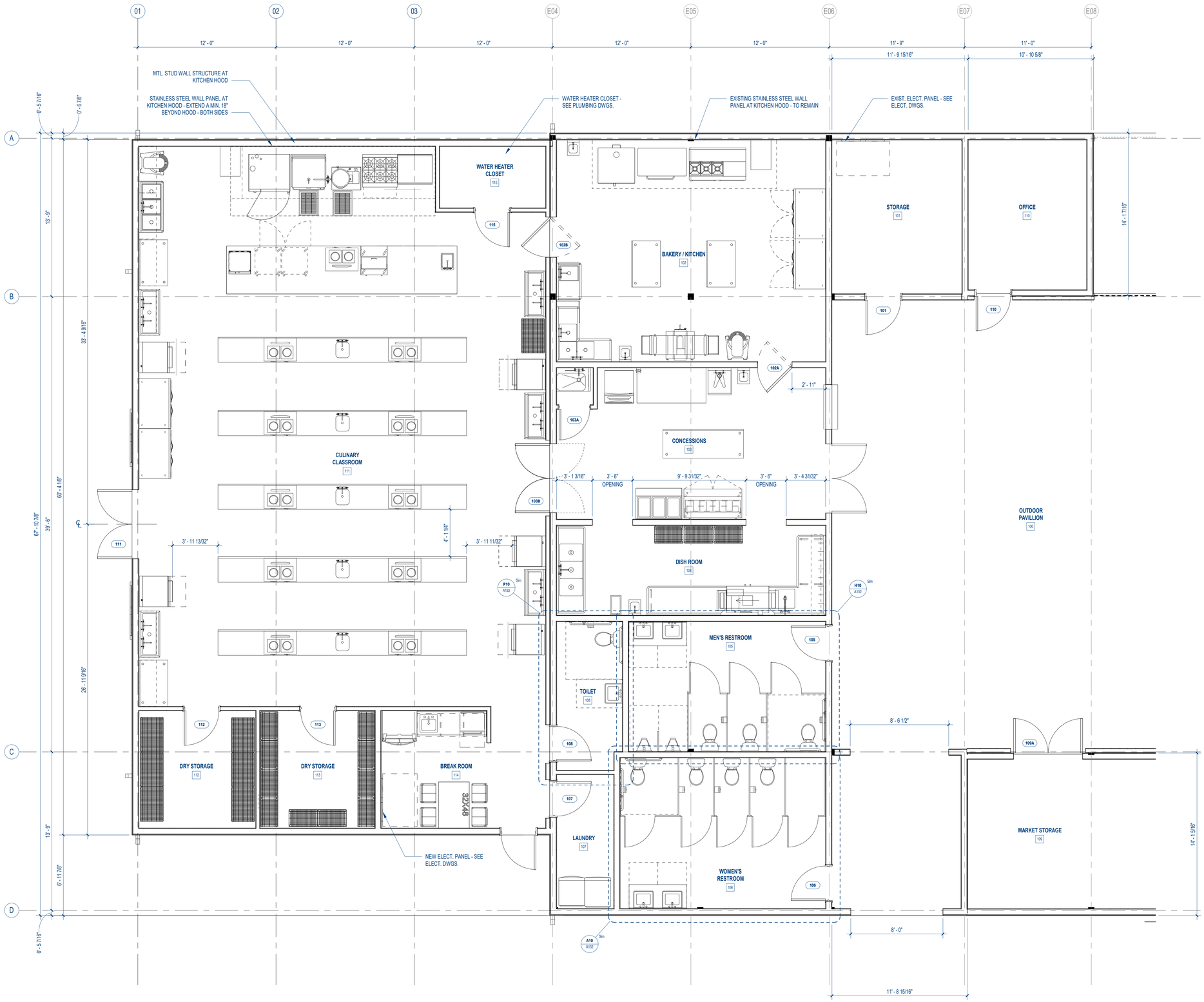
SHEET DESCRIPTION
RCP - COMPLETED

A125

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

4/4/2024 11:10:05 AM



A21 ENLARGED KITCHEN EQUIPMENT PLAN

1/4" = 1'-0" FLOOR PLAN - NEW CONSTRUCTION

NOTE: PLAN FOR REFERENCE ONLY - SEE FOOD SERVICE, MECH., ELECT., PLUMBING, AND OTHER ARCHITECTURAL PLANS FOR BUILD-OUT DIRECTION.

4/4/2024 11:10:05 AM

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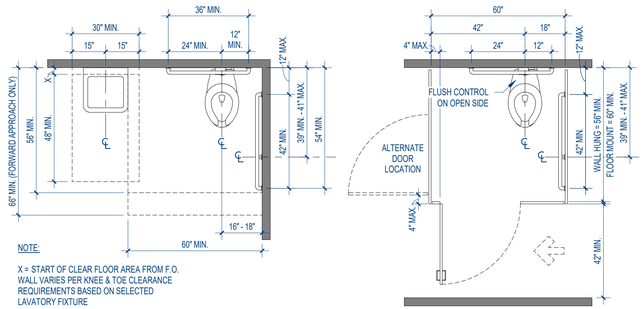
SHEET DESCRIPTION

ENLARGED KITCHEN EQUIPMENT - FOR REFERENCE ONLY

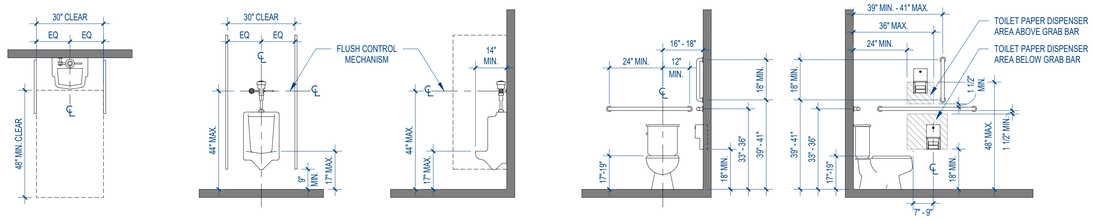
A131

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071



(SINGLE OCCUPANT) TOILET & LAVATORY PLAN

STANDARD TOILET STALL



URINAL PLAN

URINAL FRONT ELEVATION

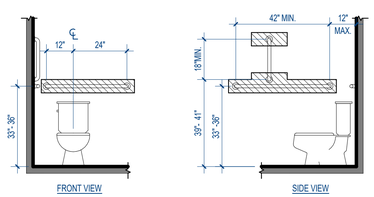
URINAL SIDE ELEVATION

TOILET FRONT ELEVATION

TOILET SIDE ELEVATION

M21 ACCESSIBLE RESTROOM FIXTURES

NOT TO SCALE — TYPICAL PLANS & ELEVATION DETAILS

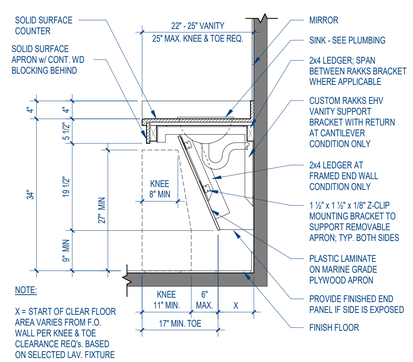


FRONT VIEW

SIDE VIEW

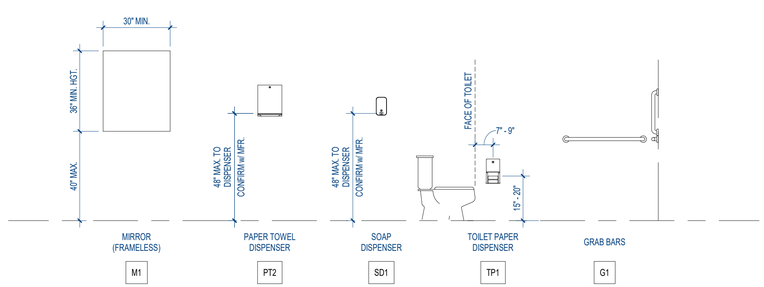
F19 GRAB BAR REINFORCEMENT

NOT TO SCALE — DETAIL MEETS RESIDENTIAL FHA COMPLIANCE



F15 TYPICAL ACCESSIBLE VANITY SECTION

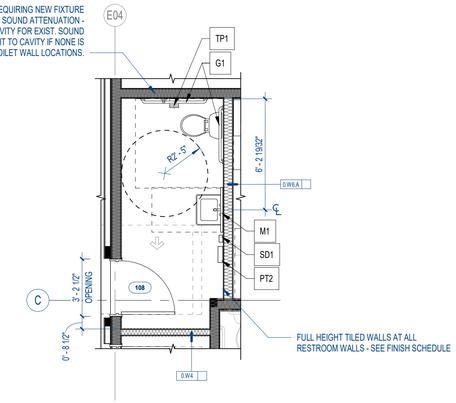
NOT TO SCALE



A18 ACCESSIBLE RESTROOM ACCESSORIES

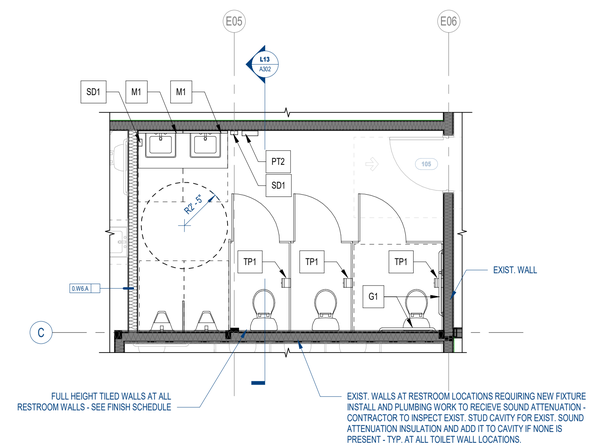
NOT TO SCALE

EXIST. WALLS AT RESTROOM LOCATIONS REQUIRING NEW FIXTURE INSTALL AND PLUMBING WORK TO RECIEVE SOUND ATTENUATION - CONTRACTOR TO INSPECT EXIST. STUD CAVITY FOR EXIST. SOUND ATTENUATION INSULATION AND ADD IT TO CAVITY IF NONE IS PRESENT - TYP. AT ALL TOILET WALL LOCATIONS.



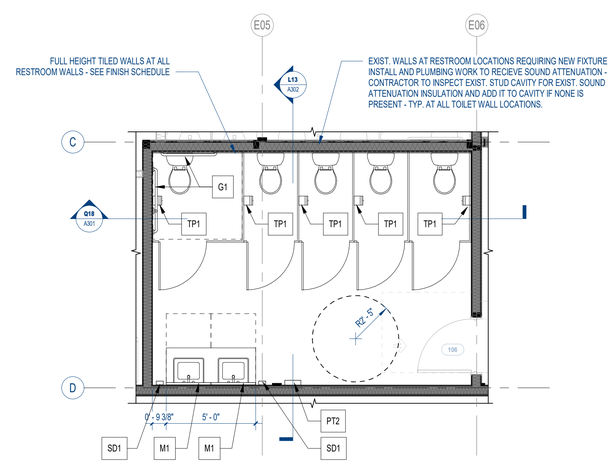
P10 SINGLE RESTROOM - ENLARGED PLAN

1/4" = 1'-0" — FLOOR PLAN - NEW CONSTRUCTION



H10 MEN'S RESTROOM - ENLARGED PLAN

1/4" = 1'-0" — FLOOR PLAN - NEW CONSTRUCTION



A10 WOMEN'S RESTROOM - ENLARGED PLAN

1/4" = 1'-0" — FLOOR PLAN - NEW CONSTRUCTION

GENERAL NOTES

ACCESSIBLE FIXTURES

A DIAGRAMS ARE BASED ON ICC A117.1-2009

B THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, PAPER DISPENSERS, SANITARY NAPKIN RECEPTACLES, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AT OTHER FIXTURES, & THE ASSOCIATED TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE.

C LAVATORY & WATER CLOSET TO BE LEVER TYPE CONTROLS.

D HOT WATER & DRIN PIPES UNDER LAVBATORY SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST ACCIDENTAL CONTACT.

E SEE EQUIPMENT / ACCESSORY SCHEDULES & LEGENDS FOR OTHER NOTES, DIMENSIONS, & CLEARANCE REQUIREMENTS.

GENERAL NOTES

ACCESSIBLE GRAB BARS & BLOCKING / REINFORCMENT

A REAR & SIDE GRAB BAR REINFORCEMENT IS REQUIRED AT ALL BATHROOMS IN TYPE 'A' & TYPE 'B' RESIDENTIAL UNITS.

B GRAB BAR REINFORCEMENT ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHERE A VERTICAL OR HORIZONTAL FORCE OF 250 LBS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

C GRAB BARS & WATER CLOSET SEATS SHALL WITHSTAND A LOAD OF NOT LESS THAN 250 LBS APPLIED AT ANY POINT.

D PROVIDE REINFORCEMENT FOR SWING-UP GRAB BARS IN LOCATIONS WHERE A SIDE WALL IS NOT AVAILABLE FOR A 42" GRAB BAR.

E DIAGONAL HATCH PATTERN INDICATES AREA WITH REINFORCEMENT.

F PROVIDE MIN. 1-1/2" CLEARANCE BETWEEN GRAB BARS / RAILINGS & FACE OF WALL FOR GRASPABILITY.

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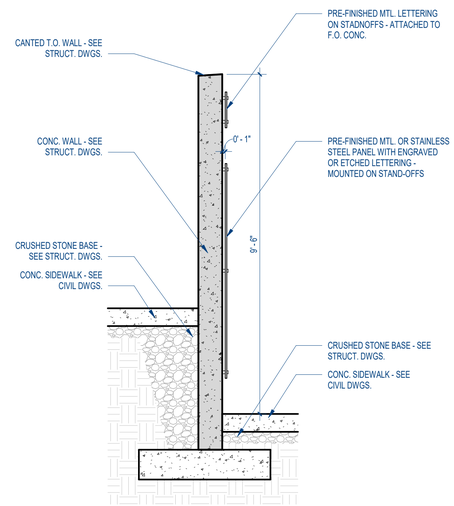
SHEET DESCRIPTION

ENLARGED RESTROOM PLANS

A132

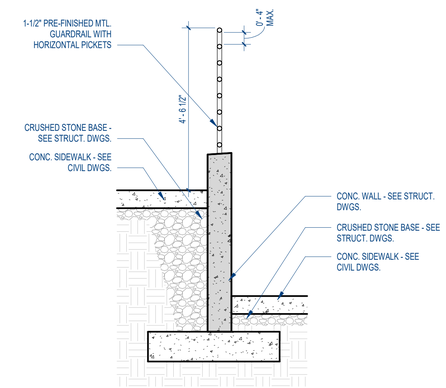
PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

4/4/2024 11:10:06 AM



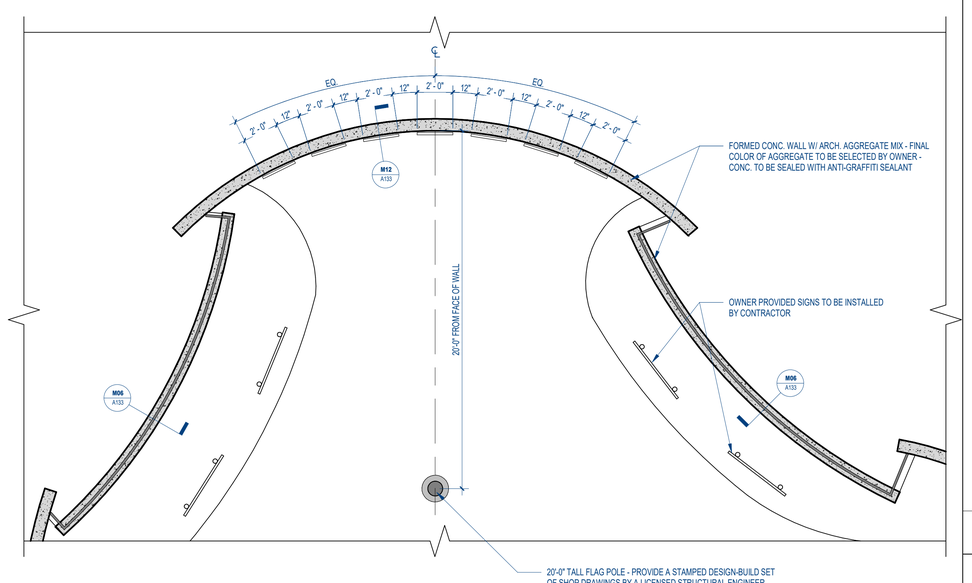
M12 MUSIC WALL DETAIL SECTION - HIGH WALL

1/2" = 1'-0"



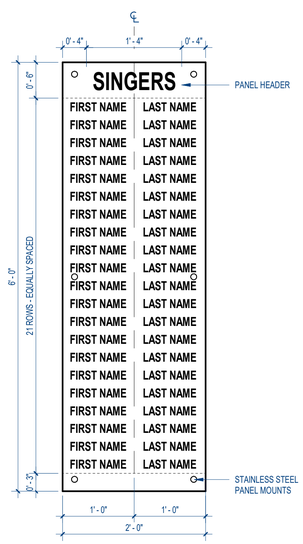
M06 MUSIC WALL DETAIL SECTION - LOW WALL + RAILING

1/2" = 1'-0"



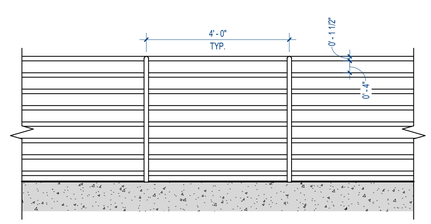
A21 MUSIC WALL ENLARGED PLAN

NOT TO SCALE



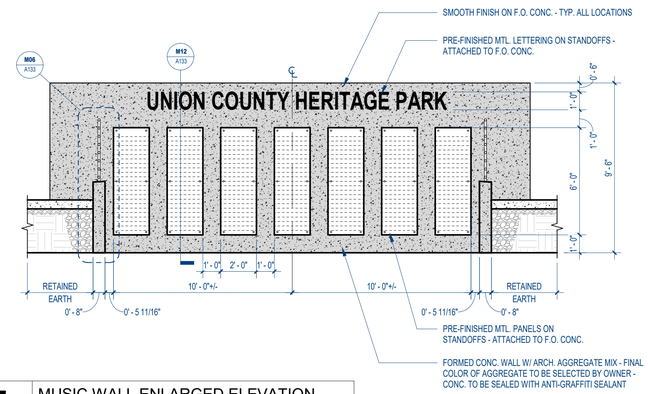
B12 MUSIC WALL ENLARGED PANEL ELEVATION

1" = 1'-0"



G07 MUSIC WALL ENLARGED RAILING ELEVATION

1/2" = 1'-0"



B07 MUSIC WALL ENLARGED ELEVATION

1/4" = 1'-0"

NOTE: FOR GENERAL PRICING AND CONFORMANCE PURPOSES ONLY - CONTRACTOR AND SIGNAGE SUBCONTRACTOR TO COORDINATE WITH OWNERS TO DEVELOP DETAILED SHOP DRAWINGS FOR FINAL MUSIC WALL SIGNAGE

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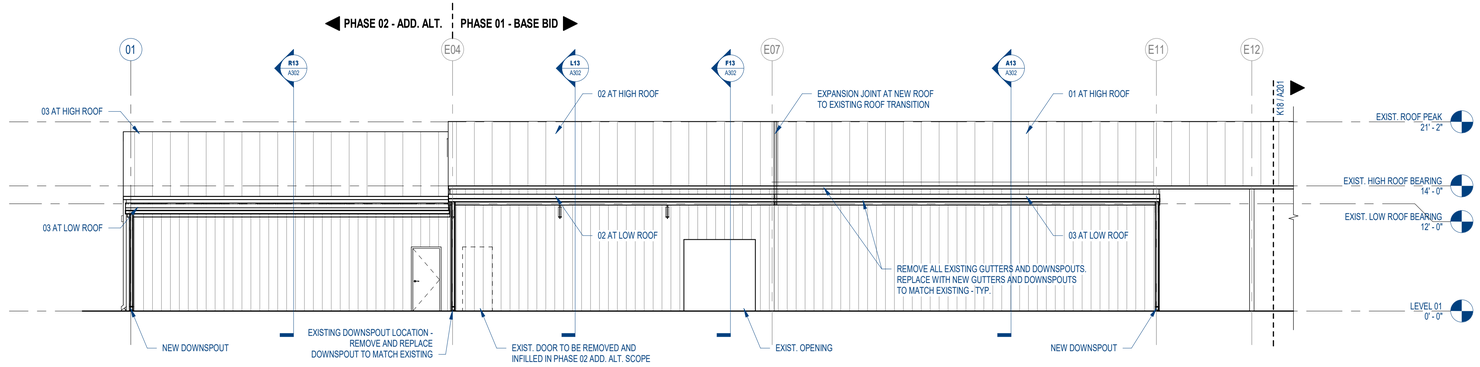
SHEET DESCRIPTION

MUSIC WALL DETAILS

A133

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

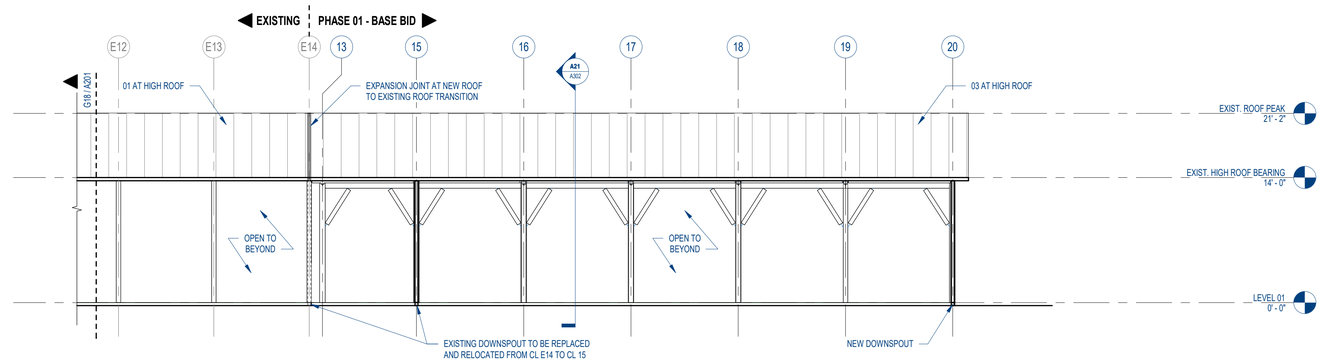
4/4/2024 11:10:07 AM



G18 ELEVATION - WEST 01

1/8" = 1'-0"

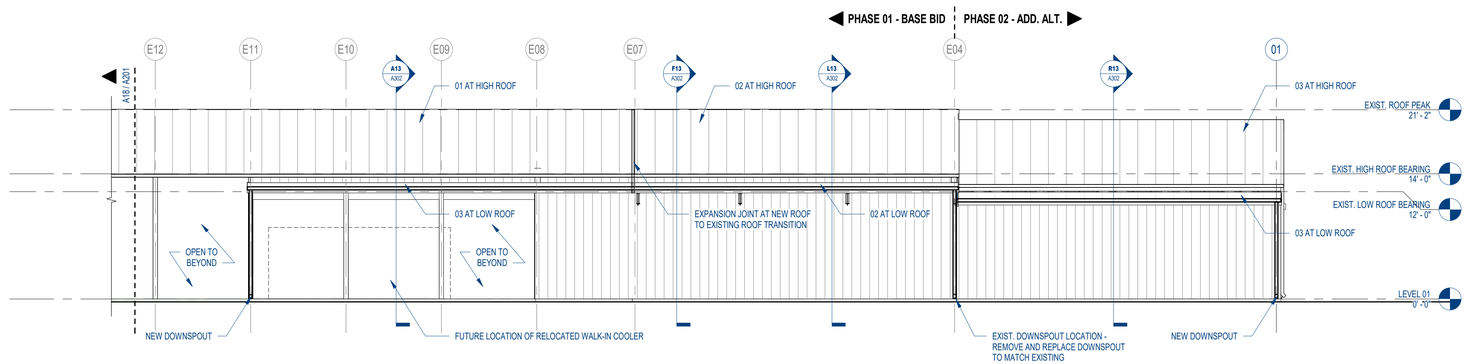
NOTE: SEE ROOF LEGEND AND ROOF PLANS FOR ADDITIONAL DIRECTION ON PHASE 01 - BASE BID AND AD ALTERNATE SCOPE OF WORK.



K18 ELEVATION - WEST 02

1/8" = 1'-0"

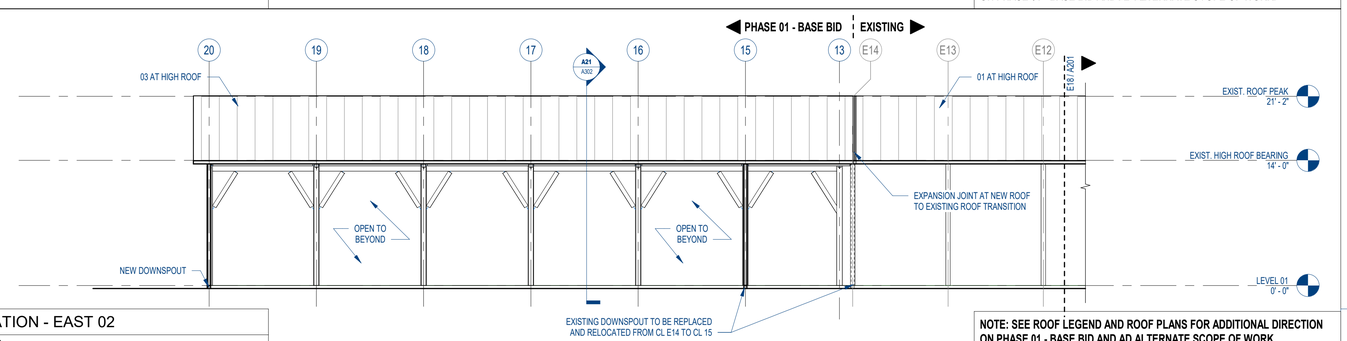
NOTE: SEE ROOF LEGEND AND ROOF PLANS FOR ADDITIONAL DIRECTION ON PHASE 01 - BASE BID AND AD ALTERNATE SCOPE OF WORK.



E18 ELEVATION - EAST 01

1/8" = 1'-0"

NOTE: SEE ROOF LEGEND AND ROOF PLANS FOR ADDITIONAL DIRECTION ON PHASE 01 - BASE BID AND AD ALTERNATE SCOPE OF WORK.



A18 ELEVATION - EAST 02

1/8" = 1'-0"

NOTE: SEE ROOF LEGEND AND ROOF PLANS FOR ADDITIONAL DIRECTION ON PHASE 01 - BASE BID AND AD ALTERNATE SCOPE OF WORK.

U04 GENERAL NOTES

EXTERIOR ELEVATIONS

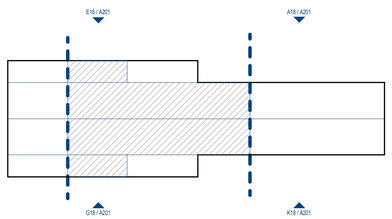
A EXAMPLE EXTERIOR ELEVATION GENERAL NOTES CONTENT

Q04 KEYED NOTES

EXTERIOR ELEVATIONS

ROOF LEGEND

- 01 - EXISTING TO REMAIN
- 02 - EXISTING ROOF TO BE REMOVED TO ALLOW FOR NEW DECKING TO BE INSTALLED TO STRUCTURE BELOW. EXISTING ROOF TO BE RE-INSTALLED AFTER NEW DECKING.
  - SEE STRUCTURAL FOR MORE DETAILED INFORMATION
  - SEE ROOF PLAN FOR EXTENTS OF INSTALLATION
- 03 - NEW ROOF CONSTRUCTION



A04 KEY PLAN

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SHEET DESCRIPTION

EXTERIOR ELEVATIONS

A201

PROJECT DATE	PROJECT NUMBER
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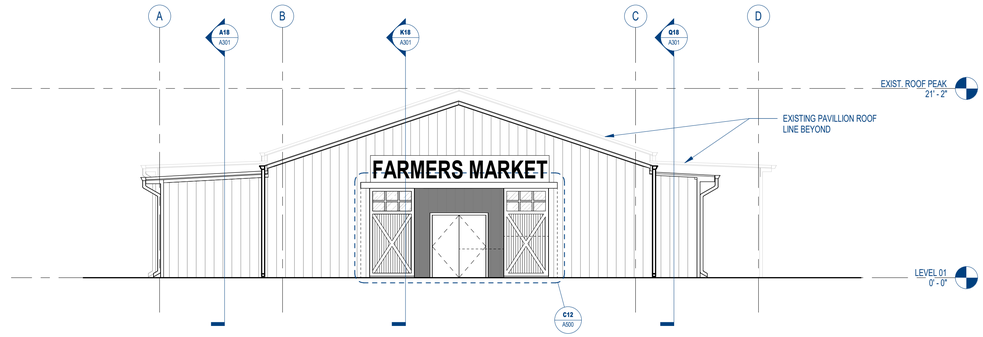
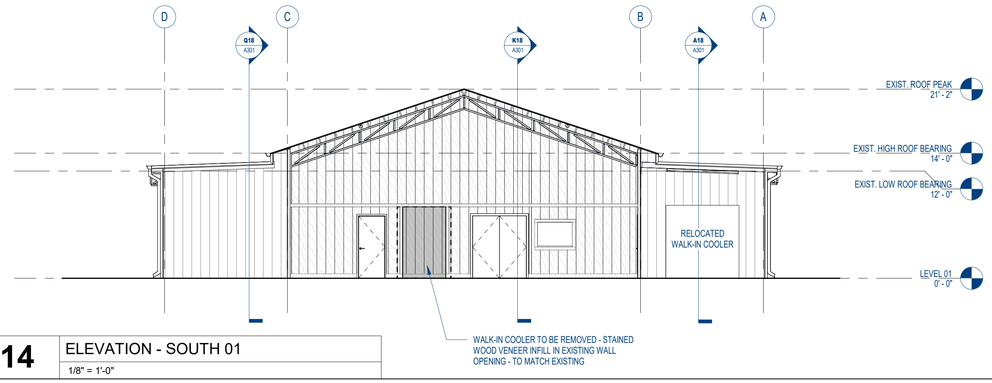
4/4/2024 11:10:08 AM



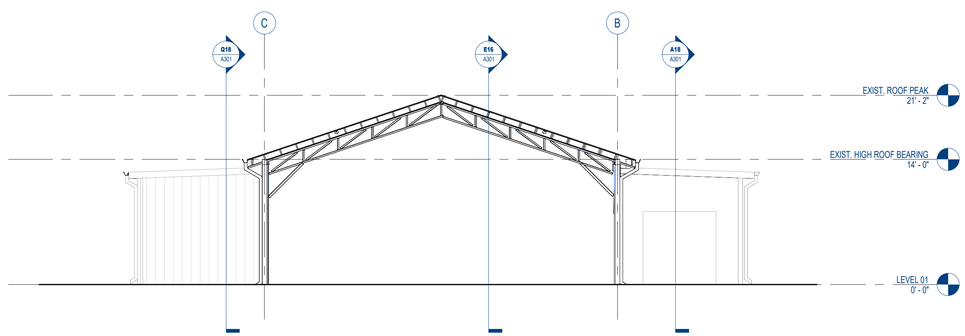
Q14 ELEVATION - NORTH

1/8" = 1'-0"



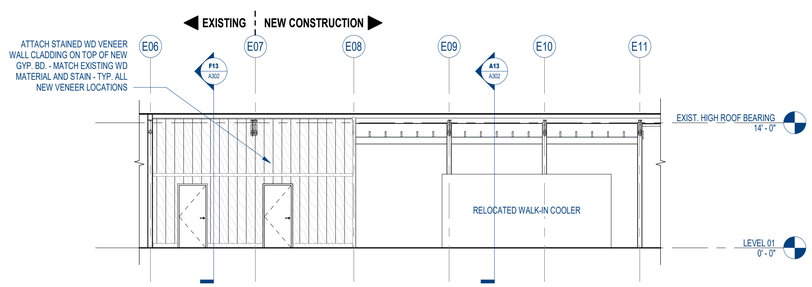
K14 ELEVATION - SOUTH 01

1/8" = 1'-0"



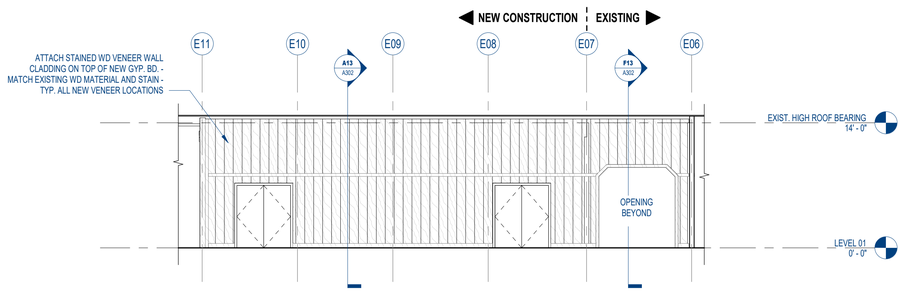
E14 ELEVATION - SOUTH 02

1/8" = 1'-0"



A21 ELEVATION - OFFICE AND STORAGE

1/8" = 1'-0"



A13 ELEVATION - MARKET STORAGE

1/8" = 1'-0"

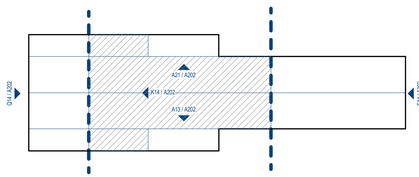
U04 GENERAL NOTES

EXTERIOR ELEVATIONS

A EXAMPLE EXTERIOR ELEVATION GENERAL NOTES CONTENT

Q04 KEYED NOTES

EXTERIOR ELEVATIONS



A04 KEY PLAN

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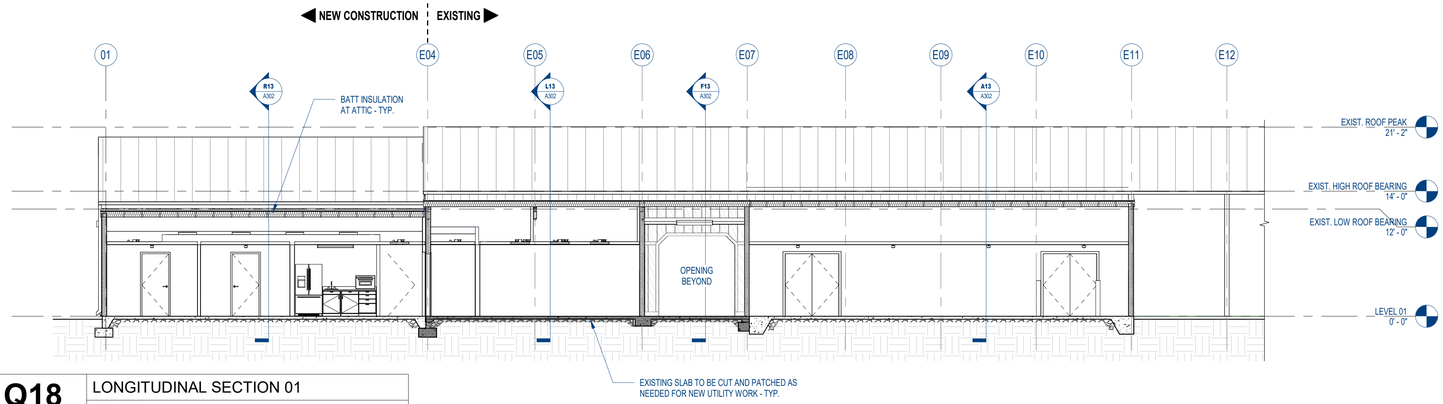
SHEET DESCRIPTION

EXTERIOR ELEVATIONS

A202

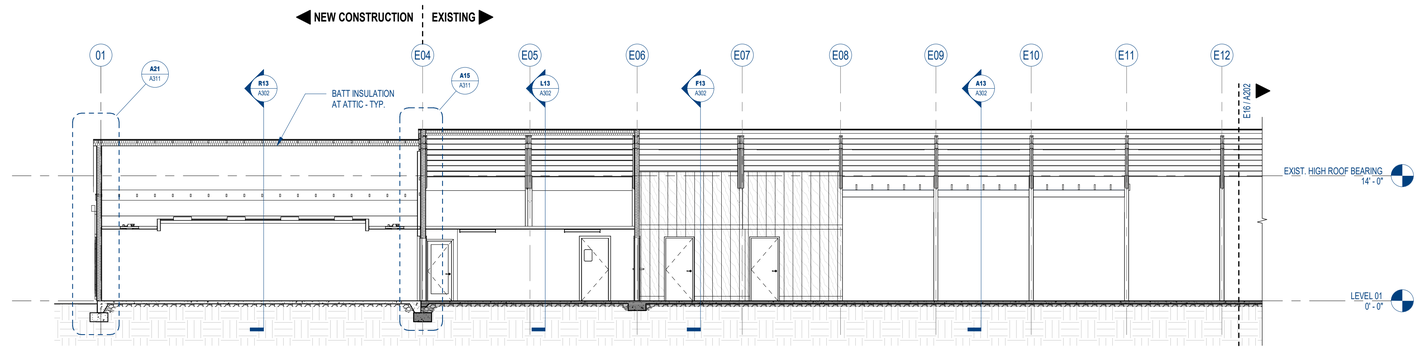
PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

4/4/2024 11:10:10 AM



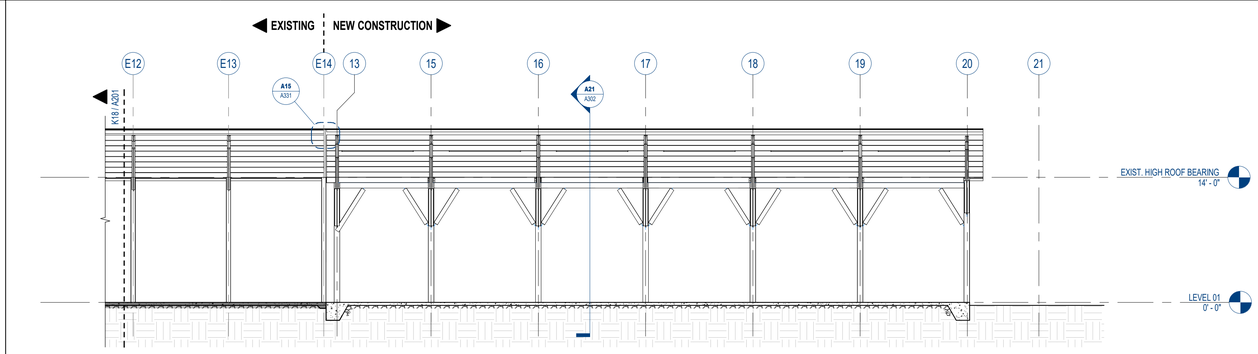
Q18 LONGITUDINAL SECTION 01

1/8" = 1'-0"



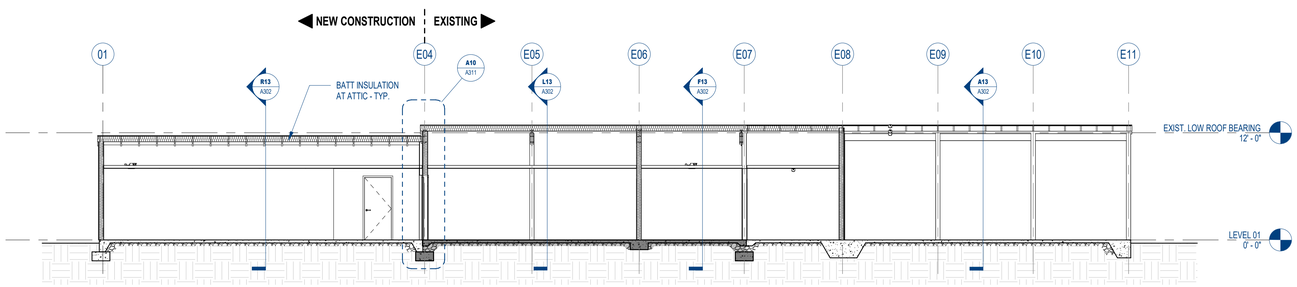
K18 LONGITUDINAL SECTION 02A

1/8" = 1'-0"



E16 LONGITUDINAL SECTION 02B

1/8" = 1'-0"



A18 LONGITUDINAL SECTION 03

1/8" = 1'-0"

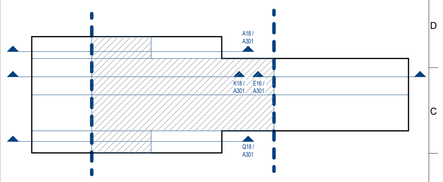
U04 GENERAL NOTES

BUILDING SECTIONS

A EXAMPLE BUILDING SECTION GENERAL NOTES CONTENT

Q04 KEYED NOTES

BUILDING SECTIONS



A04 KEY PLAN

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HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

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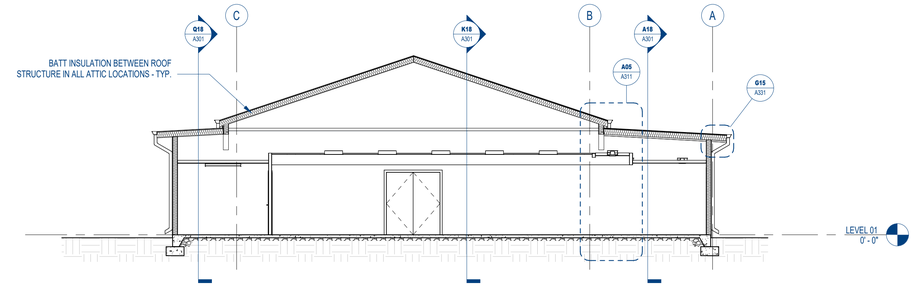
SHEET DESCRIPTION

BUILDING SECTIONS

A301

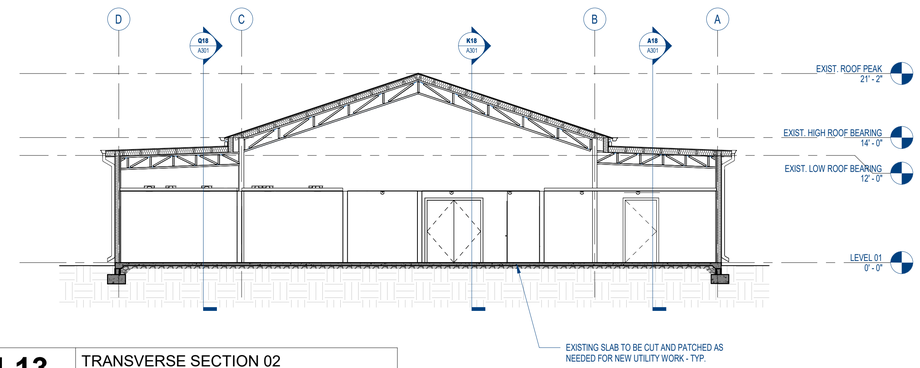
PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

4/4/2024 11:10:12 AM



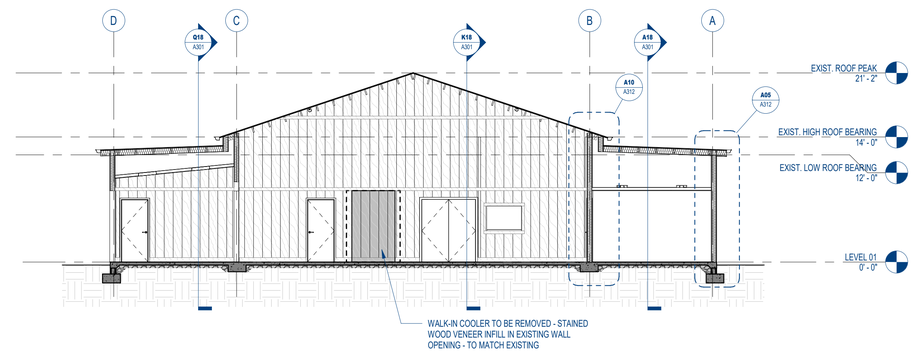
R13 TRANSVERSE SECTION 01

1/8" = 1'-0"



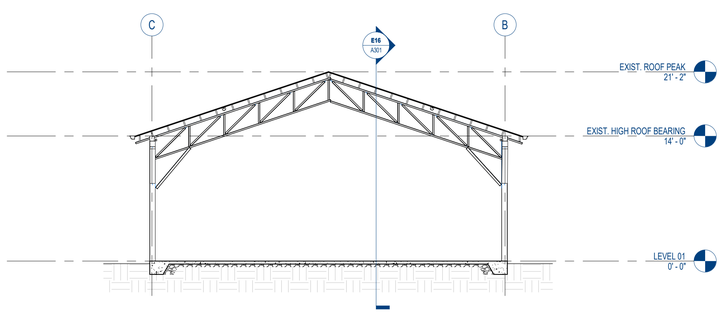
L13 TRANSVERSE SECTION 02

1/8" = 1'-0"



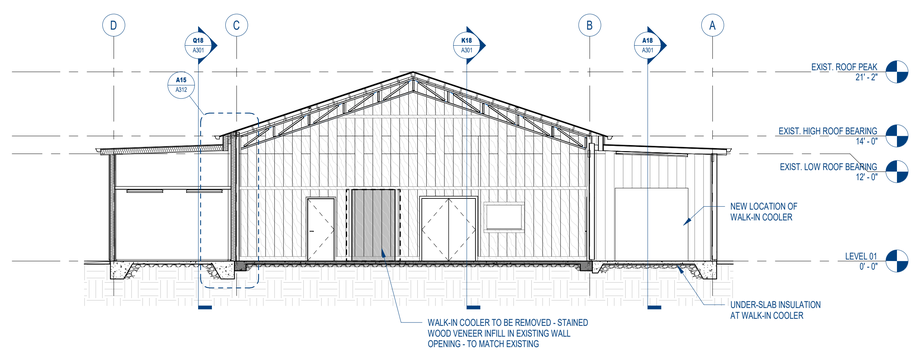
F13 TRANSVERSE SECTION 03

1/8" = 1'-0"



A21 TRANSVERSE SECTION 05

1/8" = 1'-0"



A13 TRANSVERSE SECTION 04

1/8" = 1'-0"

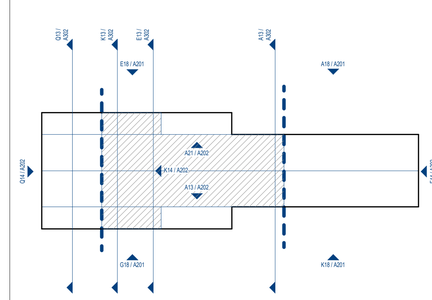
U04 GENERAL NOTES

BUILDING SECTIONS

A EXAMPLE BUILDING SECTION GENERAL NOTES CONTENT

Q04 KEYED NOTES

BUILDING SECTIONS



A04 KEY PLAN

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2024-04-01

PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION

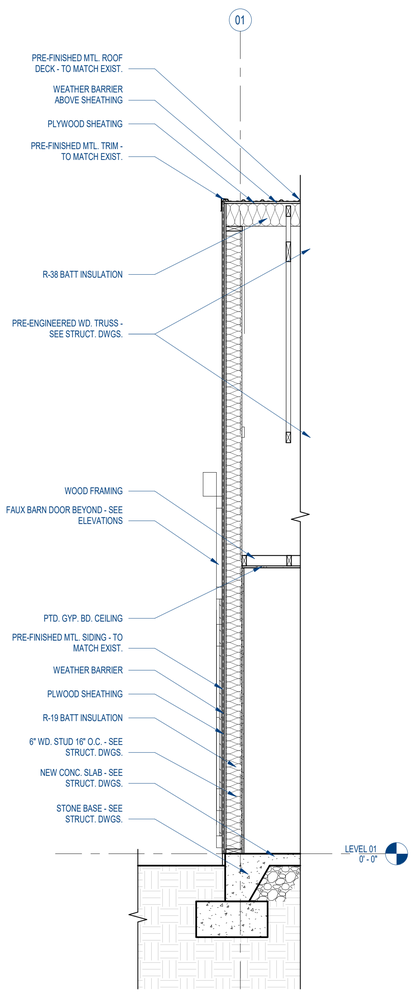
BUILDING SECTIONS

A302

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

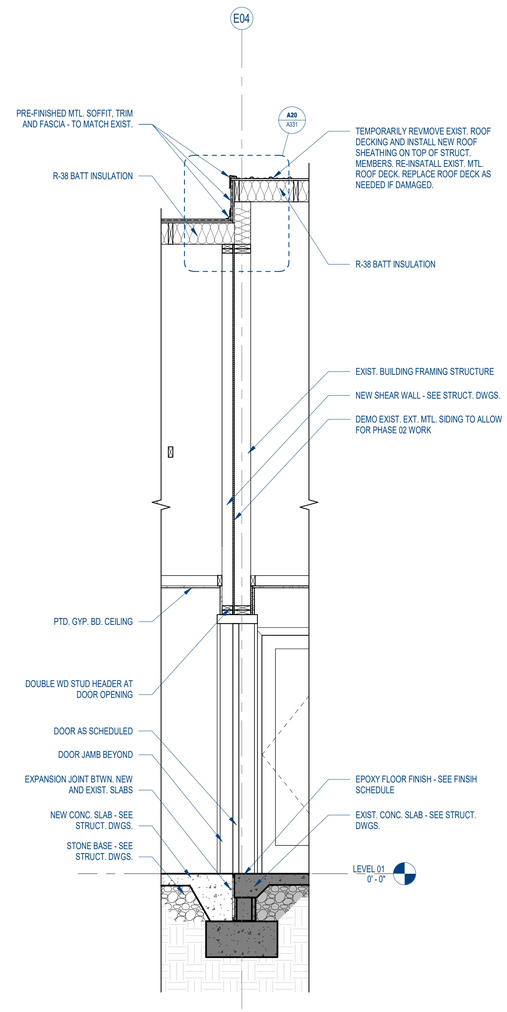
4/4/2024 11:10:14 AM

PHASE 02/03



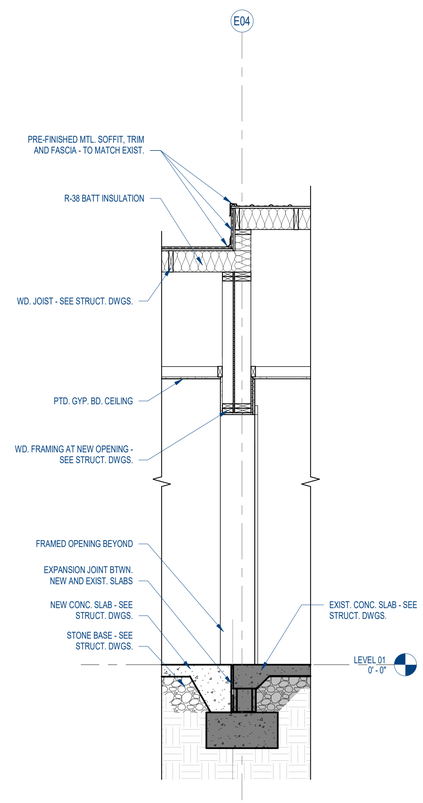
A21 WALL SECTION 01
1/2" = 1'-0" CULLINARY ADD. EXT. WALL

PHASE 02/03



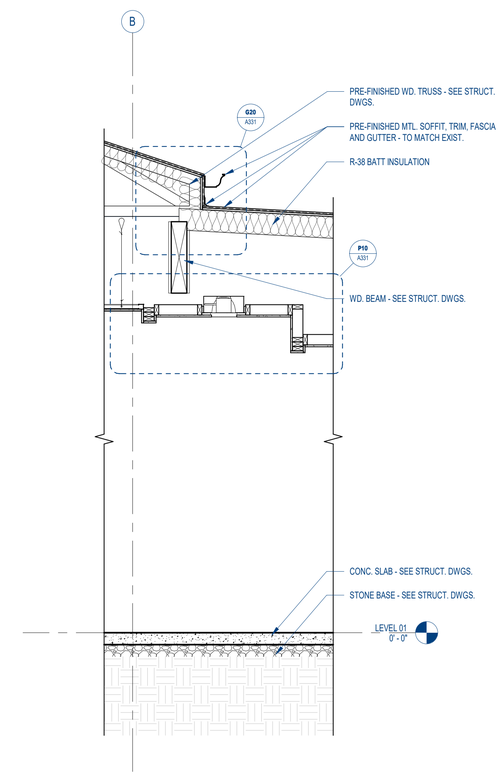
A15 WALL SECTION 02
1/2" = 1'-0" CULLINARY ADD. / CONCESSION TRANSITION

PHASE 02/03



A10 WALL SECTION 03
1/2" = 1'-0" CULLINARY ADD. / BAKERY TRANSITION

PHASE 02/03



A05 WALL SECTION 04
1/2" = 1'-0" CULLINARY ADD. HIGH / LOW ROOF TRANSITION

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HERITAGE PARK ADDITION
115 DURHAM DR, MAYNARDVILLE, TN 37807

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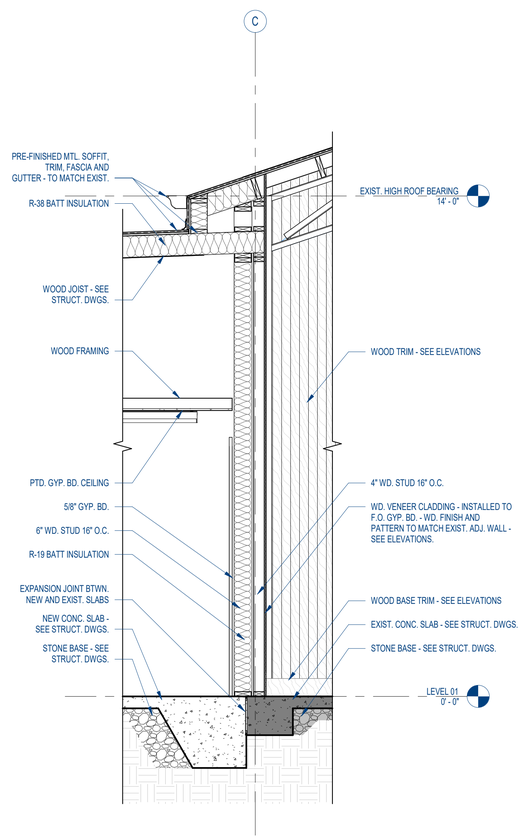
SHEET DESCRIPTION
WALL SECTIONS

A311

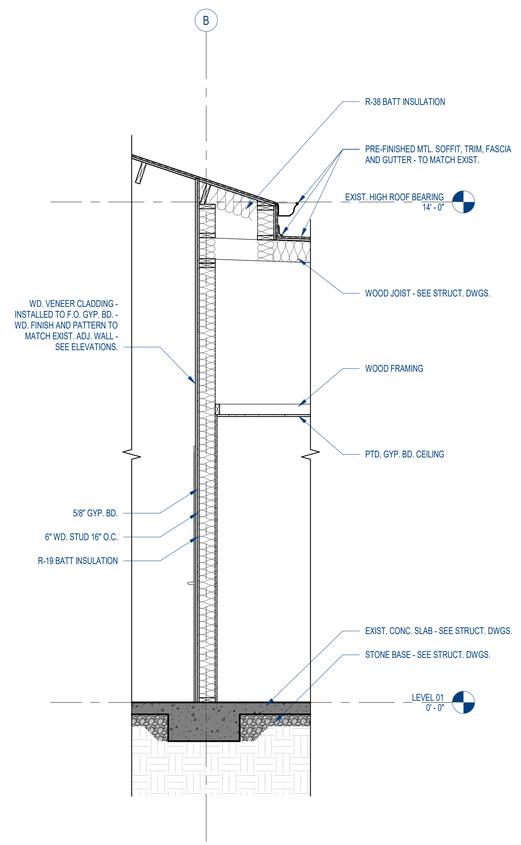
PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

4/4/2024 11:10:15 AM



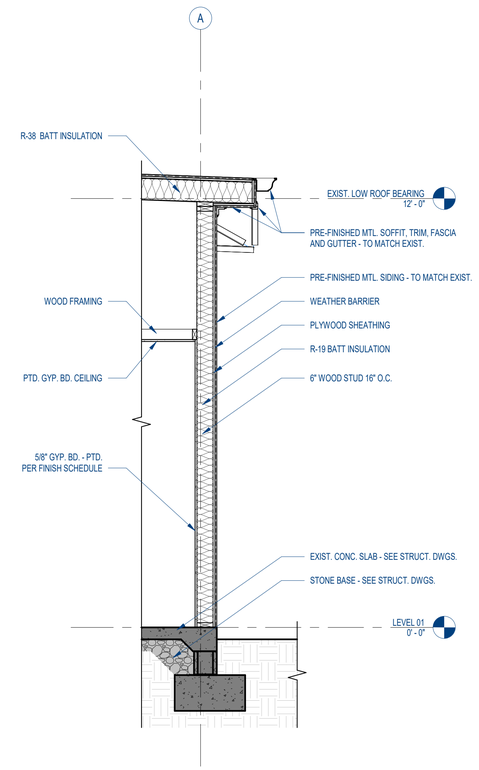
A15 WALL SECTION 05

1/2" = 1'-0" MARKET STORAGE FURRING WALL



A10 WALL SECTION 06

1/2" = 1'-0" EXIST. PAVILLION HIGH / LOW ROOF TRANSITION



A05 WALL SECTION 07

1/2" = 1'-0" EXIST. PAVILLION STORAGE EXT. WALL

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PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

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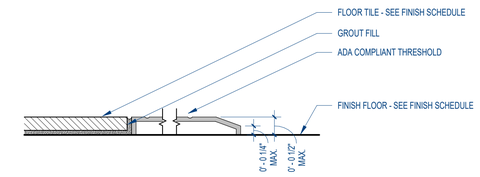
SHEET DESCRIPTION

WALL SECTIONS

A312

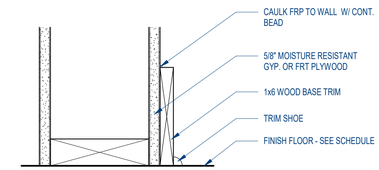
PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

4/4/2024 11:10:16 AM



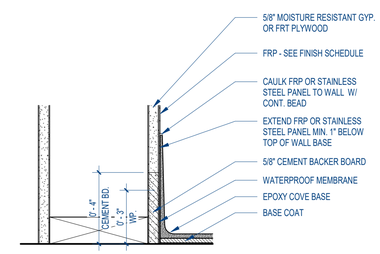
R05 FLOOR TRANSITION DETAIL 01

NOT TO SCALE



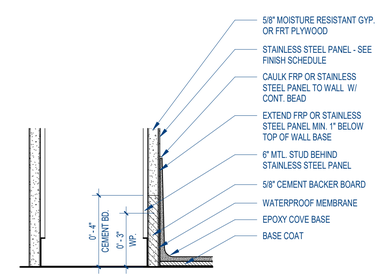
L05 BASE DETAIL 03

NOT TO SCALE



F05 BASE DETAIL 02

NOT TO SCALE



A05 BASE DETAIL 01

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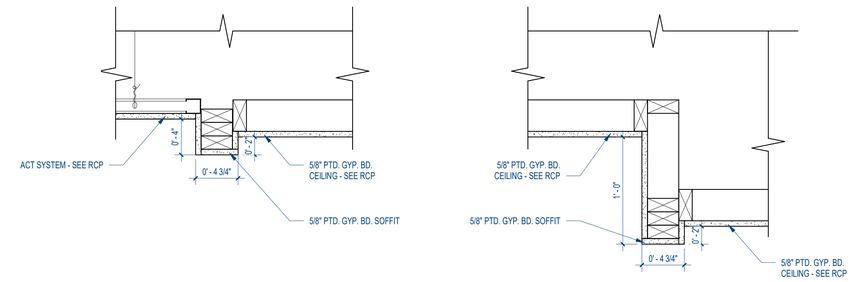
SHEET DESCRIPTION

TYPICAL DETAILS

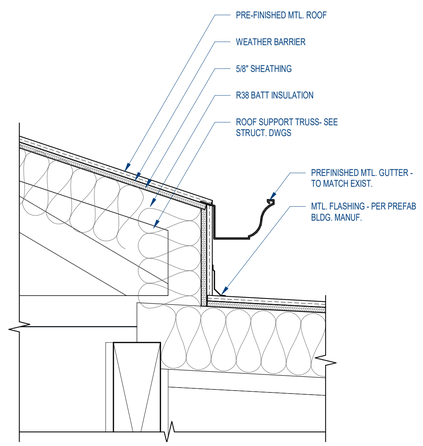
A321

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

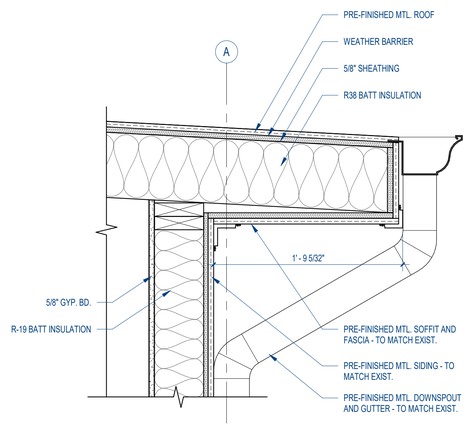
4/4/2024 11:10:16 AM



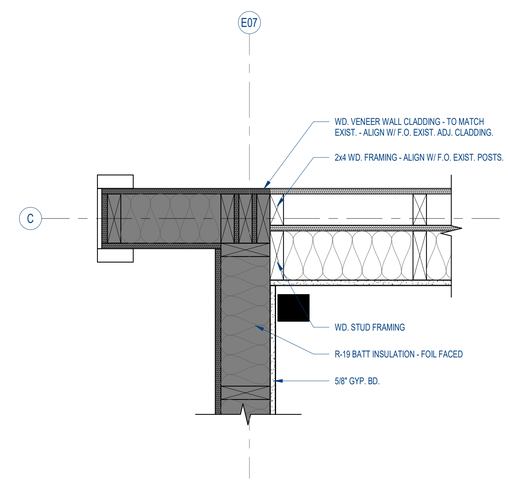
P10 SECTION DETAIL 05
1 1/2" = 1'-0" KITCHEN ADDITION CEILING SOFFIT DETAIL



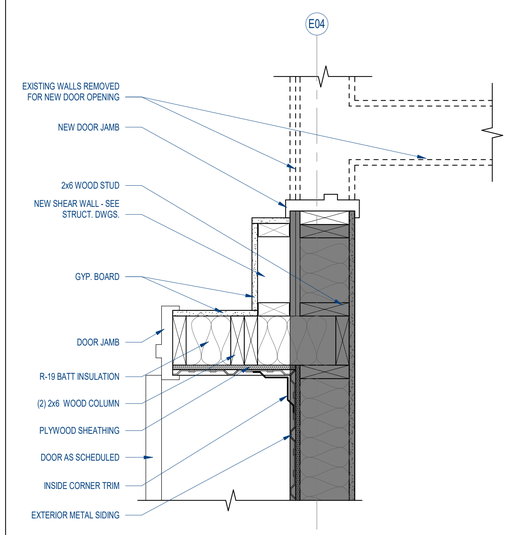
G20 SECTION DETAIL 04
1 1/2" = 1'-0" KITCHEN ADDITION HIGH ROOF - LOW ROOF DETAIL



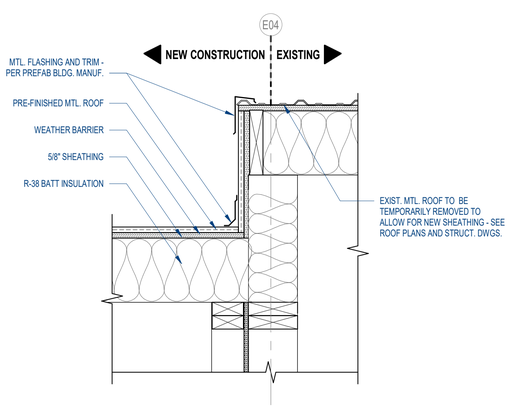
G15 SECITON DETAIL 02
1 1/2" = 1'-0" KITCHEN ADDITION GUTTER AND SOFFIT DETAIL



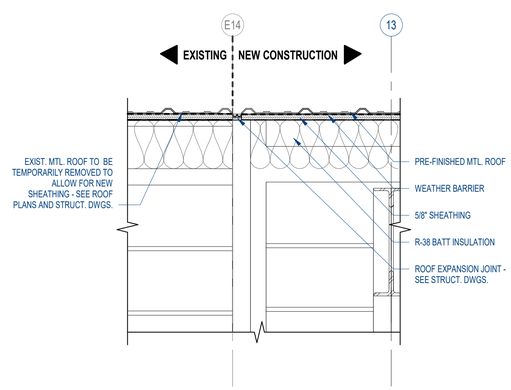
G10 PLAN DETAIL 04
1 1/2" = 1'-0" EXIST. ENTRY - MARKET STOR. FURRING WALL



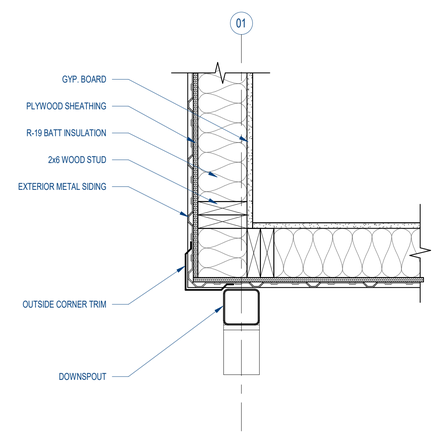
G05 PLAN DETAIL 02
1 1/2" = 1'-0" KITCHEN ADDITION EXTERIOR WALL - EXISTING BUILDING TRANSITION



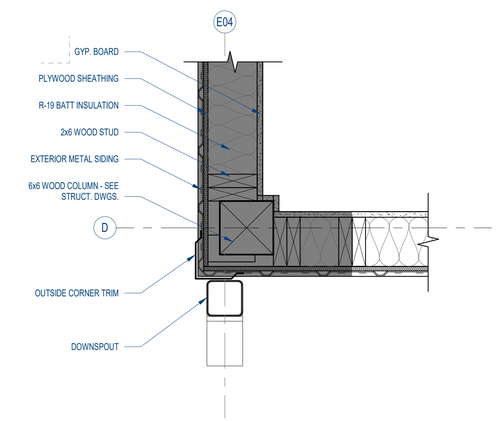
A20 SECTION DETAIL 03
1 1/2" = 1'-0" KITCHEN ADDITION ROOF - EXISTING ROOF DETAIL



A15 SECTION DETAIL 01
1 1/2" = 1'-0" EXIST. PAVILLION - PAVILLION EXTENSION ROOF DETAIL



A10 PLAN DETAIL 03
1 1/2" = 1'-0" KITCHEN ADDITION EXTERIOR CORNER



A05 PLAN DETAIL 01
1 1/2" = 1'-0" EXISTING EXTERIOR CORNER

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PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

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SHEET DESCRIPTION
PLAN & SECTION DETAILS

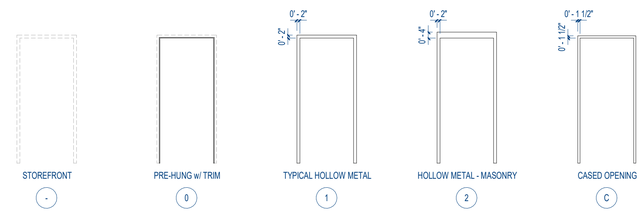
A331

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

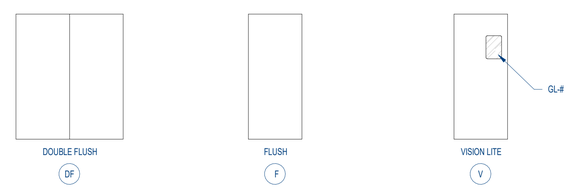
4/4/2024 11:10:17 AM

DOOR SCHEDULE

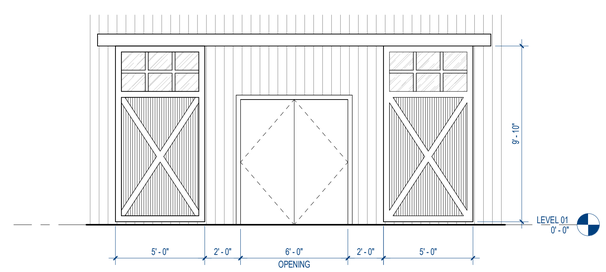
Mark	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FIRE RATING	HARDWARE SET	COMMENTS
100A	DF	6' - 0"	7' - 0"	0' - 2"							KEYPAD W/ FOB	
101	F	3' - 0"	7' - 0"	0' - 1 3/4"								EXISTING DOOR TO REMAIN
102A	V	3' - 0"	7' - 0"	0' - 2"							DOUBLE ACTING	EXISTING DOOR TO REMAIN
102B	D	3' - 6"	7' - 0"	0' - 2"							DOUBLE ACTING	
103A	F	2' - 8"	6' - 8"	0' - 1 3/4"								EXISTING DOOR TO REMAIN
103B	DF	6' - 0"	7' - 0"	0' - 2"								EXISTING DOOR TO BE SALVAGED AND RE-INSTALLED AT DOOR 111 LOCATION - REPLACE WITH TWO DOUBLE ACTING DOORS AT THIS LOCATION
103C	DF	6' - 0"	7' - 0"	0' - 2"							DOUBLE ACTING	
105	F	3' - 0"	7' - 0"	0' - 1 3/4"								EXISTING DOOR TO REMAIN - LOCKED WHEN NOT IN USE
106	F	3' - 0"	7' - 0"	0' - 1 3/4"								EXISTING DOOR TO REMAIN - LOCKED WHEN NOT IN USE
107	F	3' - 0"	7' - 0"	0' - 1 3/4"								
108	F	3' - 0"	7' - 0"	0' - 1 3/4"								
109A	DF	6' - 0"	7' - 0"	0' - 2"								
109B	DF	6' - 0"	7' - 0"	0' - 2"								
110	F	3' - 0"	7' - 0"	0' - 1 3/4"								
111	DF	6' - 0"	7' - 0"	0' - 2"							KEYPAD W/ FOB	EXISTING DOOR 103B TO BE SALVAGED AND RE-INSTALLED AT THIS LOCATION
112	F	3' - 0"	7' - 0"	0' - 1 3/4"								
113	F	3' - 0"	7' - 0"	0' - 1 3/4"								
114	F	3' - 0"	7' - 0"	0' - 1 3/4"								
115	F	3' - 0"	7' - 0"	0' - 1 3/4"								
D01	F	3' - 0"	7' - 0"	0' - 1 3/4"								EXISTING DOOR TO BE REMOVED
D02	F	3' - 0"	7' - 0"	0' - 1 3/4"								EXISTING DOOR TO BE REMOVED AND INFILLED
D03	C	4' - 10"	8' - 0"									EXISTING OPENING TO BE INFILLED
D04	C	4' - 0"	7' - 0"									EXISTING OPENING TO BE WIDENED AND REPLACED WITH DOUBLE FLUSH DOOR



FRAME TYPES
NOT TO SCALE



DOOR TYPES
NOT TO SCALE



C12 EXTERIOR DECORATIVE BARN DOORS
1/4" = 1'-0"

GENERAL NOTES

OPENINGS

GLAZING SYSTEM TAG LEGEND

NOT TO SCALE — EXTERIOR

CONSTRUCTION TYPE DESIGNATION:

AL. ALUMINUM STOREFRONT
CW. CURTAIN WALL

XX + PROJECT SPECIFIC

NOTE: REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

LEVEL / LOCATION DESIGNATION:

VALUE INDICATES NUMERIC FLOOR LEVEL, U.N.O.

UNIT SEQUENCE DESIGNATION:

VALUE IS ASSIGNED FOLLOWING A CLOCKWISE PATTERN AROUND THE BUILDING PERIMETER, BEGINNING AT THE PRIMARY BUILDING CORNER OR ENTRANCE, UNLESS NOTED OTHERWISE.

XX - ## - ##

GLAZING SYSTEM TAG LEGEND

NOT TO SCALE — INTERIOR

CONSTRUCTION TYPE DESIGNATION:

AL. ALUMINUM STOREFRONT
CW. CURTAIN WALL
HM. HOLLOW METAL
WD. WOOD, STICK BUILT

XX + PROJECT SPECIFIC,
ex. MODULAR FURNITURE SYSTEM

NOTE: REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

UNIT DESIGNATION:

VALUE ASSIGNED SHOULD MATCH THE ROOM NUMBER, UNLESS NOTED OTHERWISE. FOR MULTIPLE GLAZING SECTIONS, USE ADDITIONAL LETTER FOLLOWING THE ROOM NUMBER.

XX - ###X

WINDOW TAG LEGEND

NOT TO SCALE — PUNCH-OPENINGS

CONSTRUCTION TYPE DESIGNATION:

ACW. ALUMINUM-CLAD WOOD
ALF. ALUMINUM FRAME
FCM. FIBER COMPOSITE
LVR. ARCHITECTURAL LOUVER
STL. STEEL FRAME
VNL. VINYL FRAME
WDF. WOOD FRAME

XXX + PROJECT SPECIFIC

UNIT SIZE DESIGNATION:

VALUE INDICATED ASSUMES NOMINAL FRAME DIMENSIONS; LISTED AS WIDTH, THEN HEIGHT. REFER TO OPENING SCHEDULE / GLAZING ELEVATIONS, & PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION, MANUFACTURER ACTUAL SIZE, & ROUGH-IN DIMENSIONS.

XXX - ####

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Design Innovation
ARCHITECTS + INTERIORS + PLANNING
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www.dia-arch.com

GREGORY SCOTT CAMPBELL
REGISTERED ARCHITECT
AGRICULTURE
LIC. 101040
STATE OF TENNESSEE
2024-04-01

PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

NO.	ISSUED BY	DATE

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SHEET DESCRIPTION
OPENINGS

A500

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

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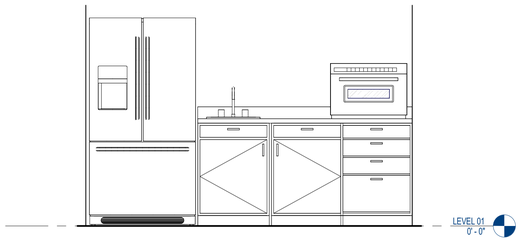

A07 BREAK AREA

1/2" = 1'-0" MILLWORK ELEVATION

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SHEET DESCRIPTION

CASEWORK or MILLWORK

A741

PROJECT DATE	PROJECT NUMBER
2024-04-01	23071

4/4/2024 11:10:18 AM

ItemNo	Qty	Category	Equipment Remarks	Voltage	Cycle	Phase	Amps	NEMA	Electrical AFF	Electrical Remarks	CW (in)	CW AFF	HW (in)	HW AFF	Gas Size(in)	Gas MBTU	Gas AFF	Plumbing Remarks	Waste Tag	IW Size	DW Size	Waste AFF	Waste Remarks
1	1	Griddle, Gas, Countertop													3/4"	81.0	+30"	B.T.C on Griddle as Req'd.					
2	1	Equipment Stand, for Countertop Cooking																					
3	1	Range, 60" Restaurant, Gas													3/4"	30.0	+30"	B.T.C on Range as Req'd.					
4	1	Convection Oven, Gas		115	60	1	6.0	5-15P	+42"	Top Oven					3/4"	50.0	+30"	B.T.C on Oven as Req'd.					
	1			115	60	1	6.0	5-15P	+24"	Bottom Oven													
5	1	Exhaust Hood		120	60	1	15.0	J-BOX	TOH	Branch to Hood Acc. as Required													
5.1	1	Exhaust Fan	Remote	208	60	3	9.38	Disc.	Remote														
5.2	1	Tempered Make-Up Air Unit	Remote	208	60	3	64.90	Disc.	Remote						3/4"	291.9	Remote						
6	1	Sandwich / Salad Preparation Refrigerator		115	60	1	3.5	5-15P	***	Electrical via Load Center on Item #15													
7	1	Exhaust Hood	Existing	***	***	***	***	***	***	Existing; Verify Utilities													
8	1	Tilting Skillet Braising Pan, Gas		120	60	1	1.8	5-15P	+42"		1/2"	+21"			3/4"	91.0	+30"	Branch to 3/8" Conn. as Req'd.					
9	1	Reach-In Refrigerator		115	60	1	3.8	5-15P	+80"														
10	1	Reach-In Refrigerator	Existing	115	60	1	3.8	5-15P	+80"	Existing; Verify Utilities													
11	1	Reach-In Freezer	Existing	115	60	1	10.7	5-15P	+80"	Existing; Verify Utilities													
12	1	Pizza Bake Oven, Deck-Type, Gas													3/4"	27.0	+30"	B.T.C on Oven as Req'd.					
13	2	Proofer Cabinet, Mobile		120	60	1	15	5-15P	+24"														
14	1	Dishtable, Soiled "L" Shaped									1/2"	+21"	1/2"	+21"				B.T.C on Pre-Rinse as Req'd.	FS/HG	1-1/2"		Floor	Conn. Drain Line & Extend to Floor Sink
14.1	1	Overshelf	Mount +60" AFF																				
15	1	Teaching Station	Custom	115-208	60	1	42	J-BOX	+5"	B.T.C on Teaching Station Load...													
16	1	Dishwasher, Conveyor Type		208	60	3	51.9	J-BOX	+66"		1/2"	+21"	1/2"	+21"					FS/HG	1-1/2"		Floor	Conn. Drain Line & Extend to Floor Sink
16.1	1	Booster		208	60	3	74.9	J-BOX	+66"														
17	1	Clean Dishtable																					
18	1	Three (3) Compartment Sink									1/2"	+16"	1/2"	+16"				B.T.C. on Faucet as Req'd.	FS/HG	(3) 1-1/2"		Floor	Conn. Drain Line & Extend to Floor Sink
19	4	Hand Sink									1/2"	+21"	1/2"	+21"				B.TC. on Hand Sink as Req'd.	DWL		1-1/2'	+18"	
20	1	Pantleg Duct																					
20.1	1	Exhaust Fan	Remote	208	60	1	3.2	Disc.	Remote														
21	2	Planetary Mixer		220	60	1	12.0	L6-30P	+24"														
22	-	Spare Number																					
23	1	Corner Sink, (3) Three Compartment									(2) 1/2"	+16"	(2) 1/2"	+16"				B.T.C. on Faucet as Req'd.	FS/HG	(3) 1-1/2"		Floor	Conn. Drain Line & Extend to Floor Sink
24	4	Work Table, Stainless Steel Top	48"x30"																				
25	10	Security Unit	18"x30"																				
26	6	Security Unit	24"x36"																				
27	9	Shelving, Wall Mounted	Mount +60" AFF																				
28	1	Undercounter Refrigerator		***	***	***	***	5-15P	***	Electrical via Load Center on Item #15													
29	1	Reach-In Undercounter Freezer		***	***	***	***	5-15P	***	Electrical via Load Center on Item #15													
30	1	Dishwasher, Undercounter		***	***	***	***	14-50P	***	Electrical via Load Center on Item #15			3/4"	+21"					FS/HG	1-3/8"		Floor	Conn. Drain Line & Extend to Floor Sink
31	1	Reach-In Freezer		115	60	1	10.7	5-15P	+80"														
32	1	Range, 36", 6 Open Burners													3/4"	203.0	+30"	B.T.C on Range as Req'd.					
33	1	Three (3) Compartment Sink									1/2"	+16"	1/2"	+16"				B.T.C. on Faucet as Req'd.	FS/HG	(3) 1-1/2"		Floor	Conn. Drain Line & Extend to Floor Sink
34	10	Convection Oven, Electric	5 Stacks of 2	208	60	1	20.0	6-20P	+42"	Top Oven													
				208	60	1	20.0	6-20P	+24"	Bottom Oven													
34.1	5	Stacking Kit																					
35	1	One (1) Compartment Sink									1/2"	+16"	1/2"	+16"					FS/HG	1-1/2"		Floor	Conn. Drain Line & Extend to Floor Sink
36	1	Hot Food Serving Counter / Table		120	60	1	12	5-15P	+24"														
37	1	Sandwich / Salad Preparation Refrigerator		115	60	1	6.5	5-15P	+24"														
38	1	Ice Maker, Cube-Style		115	60	1	11.5	J-BOX	+66"		1/2"	+21"						Branch to 3/8" Conn. as Req'd.	FS/HG	1/2"		Floor	Conn. Drain Line & Extend to Floor Sink
39	1	One (1) Compartment Sink									1/2"	+16"	1/2"	+16"					FS/HG	1-1/2"		Floor	Conn. Drain Line & Extend to Floor Sink
40	2	Security Unit	36"x18"																				
41	-	Spare Number																					
42	1	Kettle, Electric, Countertop		208	60	3	33.0	J-BOX	+42"														
42.1	1	Equipment Stand, for Countertop Cooking																					
43	1	Work Table, Stainless Steel Top	84"x30"																				
44	1	Induction Range, Built-In / Drop-In		208-240	60	1	23.1	14-50P	***	Electrical via Load Center on Item #15													
45	5	Student Work Station	Custom								1/2"	+5"	1/2"	+5"				B.TC. on Faucet as Req'd.	FS/HG	1-1/2"		Floor	Conn. Drain Line & Extend to Floor Sink
46-47	-	Spare Number																					
48	1	Hand Sink									1/2"	+5"	1/2"	+5"				B.TC. on Hand Sink as Req'd.	FS/HG	1-1/2"		Floor	Conn. Drain Line & Extend to Floor Sink
49	-	Spare Number																					
50	1	Work Table, Stainless Steel Top	72"x36"																				
51	1	Dishwasher, Undercounter		208	60	1	37.2	J-BOX	+24"	Existing; Verify Utilities			3/4"	+12"				Existing; Verify Utilities	FS/HG	1-3/8"		Floor	Conn. Drain Line & Extend to Floor Sink
52	11	Induction Range, Built-In / Drop-In		208-240	60	1	23.1	14-50P	+5"														
53	3	Wire Shelving	30"x18" (4-Tier)																				
54	1	Wire Shelving	36"x24" (4-Tier)																				
55	5	Hand Sink									1/2"	+21"	1/2"	+21"				B.T.C. on Faucet(s) as Req'd.	DWL		1-1/2"	+18"	
56	-	Spare Number																					
57	1	Dough Sheeter		220	60	1	7.8	6-15P	+24"														
58	1	Combi Oven, Gas		208/240	60	1	103.8/90.0	J-BOX	+42"		1/2"	+21"			1"	148.5	+30"	Branch to 3/4" Conn. as Req'd.	FS/HG	2"		Floor	Conn. Drain Line & Extend to Floor Sink
59	2	Floor Trough																	DWL		1-1/2"	Floor	

1 **Equipment Schedule**
N.T.S.

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User:H. Phillips
File: C:\Local Files\2023\23045.00_Heritage Park Addition_Maynardville, TN_hphillips2D3YT.rvt

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t (865) 225-1545 f (800) 821-9130
www.KaTom.com

A New Facility For:
Heritage Park Addition
115 Durham Drive, Maynardville, TN 37807

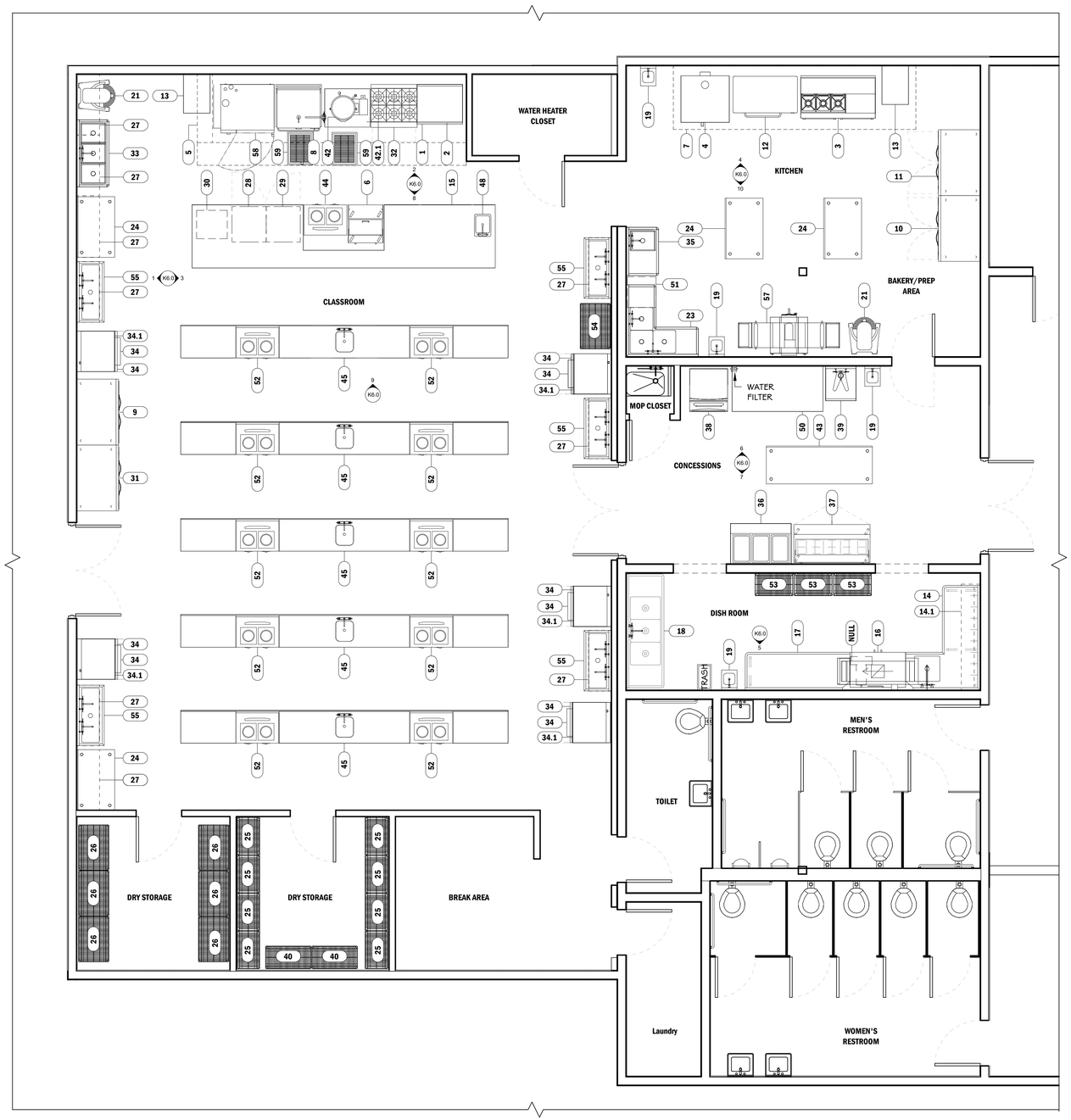
03/27/24
APPROVED FOR CONSTRUCTION

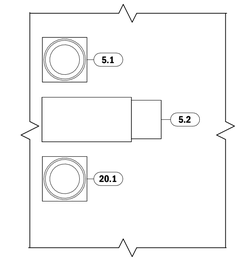
Project Number:	23045.00
Date:	03/27/24
Project Mgr :	M. Knoebel
Drawn By:	H. Phillips
Checked By:	M. Holbert

Drawing Issued For:
- ○ Schematic Design
- ○ Design Development
- ● Construction

Revisions:
No. Date Description

Sheet Title:
Kitchen Equipment
Equipment Schedule
Sheet No:
K0.0





REMOTE UNITS; VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS

1 **Equipment Plan**
1/4" = 1'-0"

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- ○ Schematic Design
- ○ Design Development
- ● Construction

Revisions:

No.	Date	Description

Sheet Title:
Kitchen Equipment
Equipment Plan
Sheet No:
K1.0

Date:3/27/2024 12:28:14 PM
User:H. Phillips
File: C:\Local Files\2023\23045.00_Heritage Park Addition_Maynardville, TN_hphillips2D3YT.rvt

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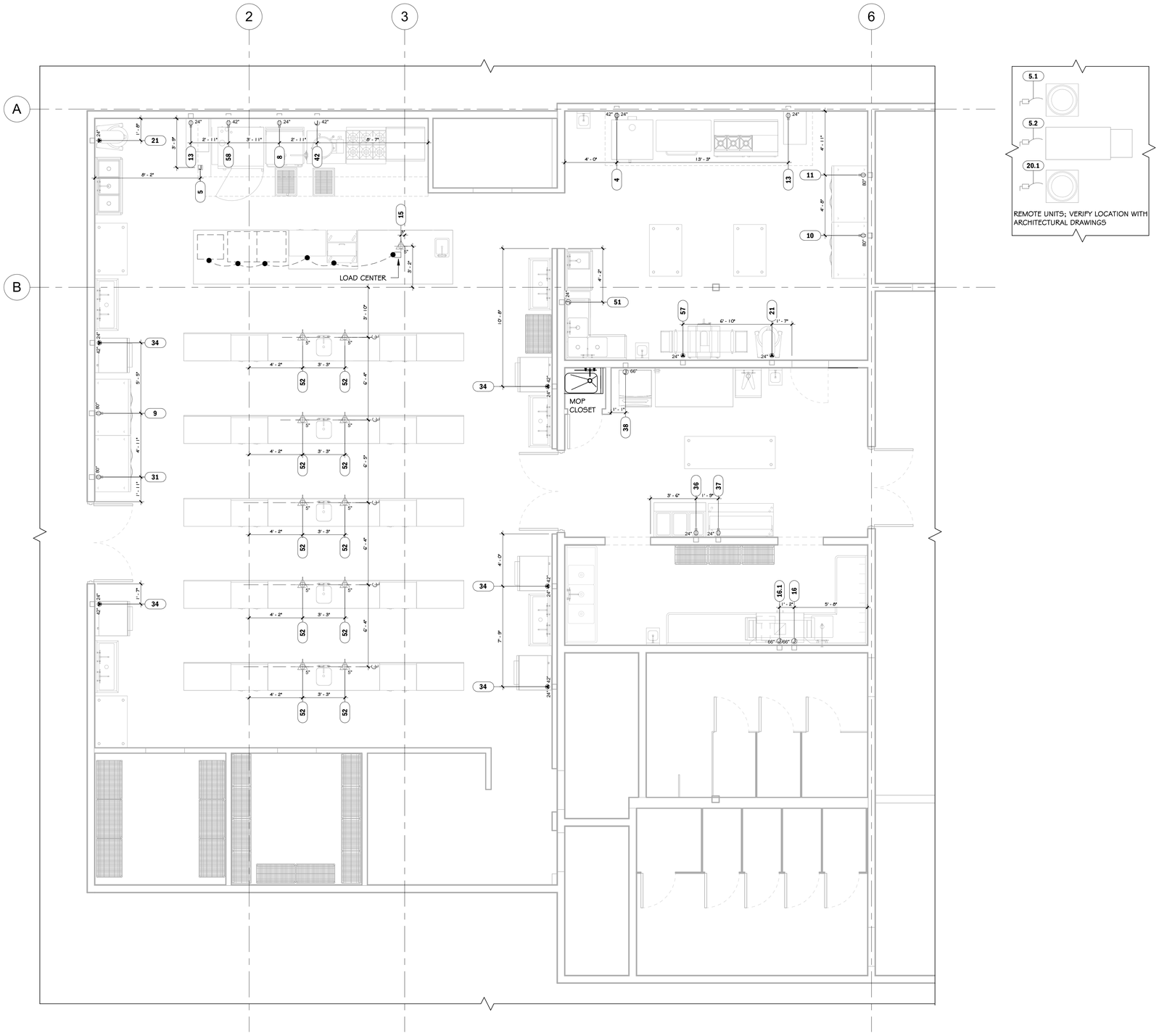

1 Electrical Plan
1/4" = 1'-0"

DROP RECEPTACLE ON COARD FROM ABOVE

DUPLEX RECEPTACLE -GFIC

DUPLEX RECEPTACLE - GROUND TYPE

SINGLE RECEPTACLE - GROUND TYPE

SIMPLEX RECEPTACLE - GROUND TYPE

ELECTRICAL STUB-UP / CONDUIT

DISCONNECT SWITCH

SPECIAL PURPOSE OUTLET, AS INDICATED, GROUND TYPE

JUNCTION BOX

FIELD WIRING TO CONNECTION POINT ON EQUIPMENT

2 Electrical Legend
N.T.S.

1. ALL OUTLETS AND CONNECTIONS SHOWN RELATE TO FOOD SERVICE FIXTURE AND EQUIPMENT ONLY. THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE ELECTRICAL DRAWINGS FOR ANY ADDITIONAL ELECTRICAL REQUIREMENTS.
2. THIS ELECTRICAL PLAN IS INTENDED TO SHOW ROUGH-IN OUTLET TYPES, HEIGHTS, LOCATIONS, CONNECTION POSITIONS, AND LOAD REQUIREMENTS. ALL DIMENSIONS SHOWN ARE FROM FINISHED FLOORS AND FINISHED WALLS, OR CENTERLINE OF COLUMNS. CONTRACTOR TO VERIFY ALL WALL PARTITIONS WITH ARCHITECTURAL DRAWINGS AND VERIFY ALL SERVICE REQUIREMENTS.
3. MAX HEIGHT OF FLOOR RECEPTACLES IS 5-1/4" AFF.
4. WALK-IN COOLERS: RUN ELECTRICAL CONDUIT FOR LIGHT FIXTURES ON INSIDE OF WALK-IN BOXES. USE CONDUIT SEAL-OFFS TO PREVENT HEAT TRANSFER WHERE CONDUIT PENETRATES BOX, TYP.
5. ELECTRICAL CONTRACTOR SHALL FURNISH ALL CONDUIT AND CONTROL WIRING, ETC., AS REQUIRED TO MAKE EACH PIECE OF EQUIPMENT FULLY OPERATIONAL.
6. ELECTRICAL CONTRACTOR SHALL FURNISH ALL CONDUIT AND CONTROL WIRING FROM WALK-IN COOLER/FREEZER EVAPORATORS.
7. ELECTRICAL CONTRACTOR TO INSTALL CORDS AND PLUGS PROVIDED FOR EQUIPMENT BY FOOD SERVICE EQUIPMENT CONTRACTOR.
8. ALL ELECTRICAL DISCONNECTS MUST BE FABRICATED FOR MOIST AND HUMID ENVIRONMENTS.
9. REFER TO FOOD SERVICE EQUIPMENT SUPPLIER'S DRAWINGS FOR ALL EQUIPMENT IDENTIFICATION.
10. ELECTRICAL CONTRACTOR SHALL ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL FOOD SERVICE EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS.

3 Electrical Notes
N.T.S.

4 Not Used
N.T.S.

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Drawing Issued For:
- ○ Schematic Design
- ○ Design Development
- ● Construction

Revisions:

No.	Date	Description

Sheet Title:
Kitchen Equipment
Electrcal Plan

Sheet No:
K2.0

Date:3/27/2024 12:28:14 PM
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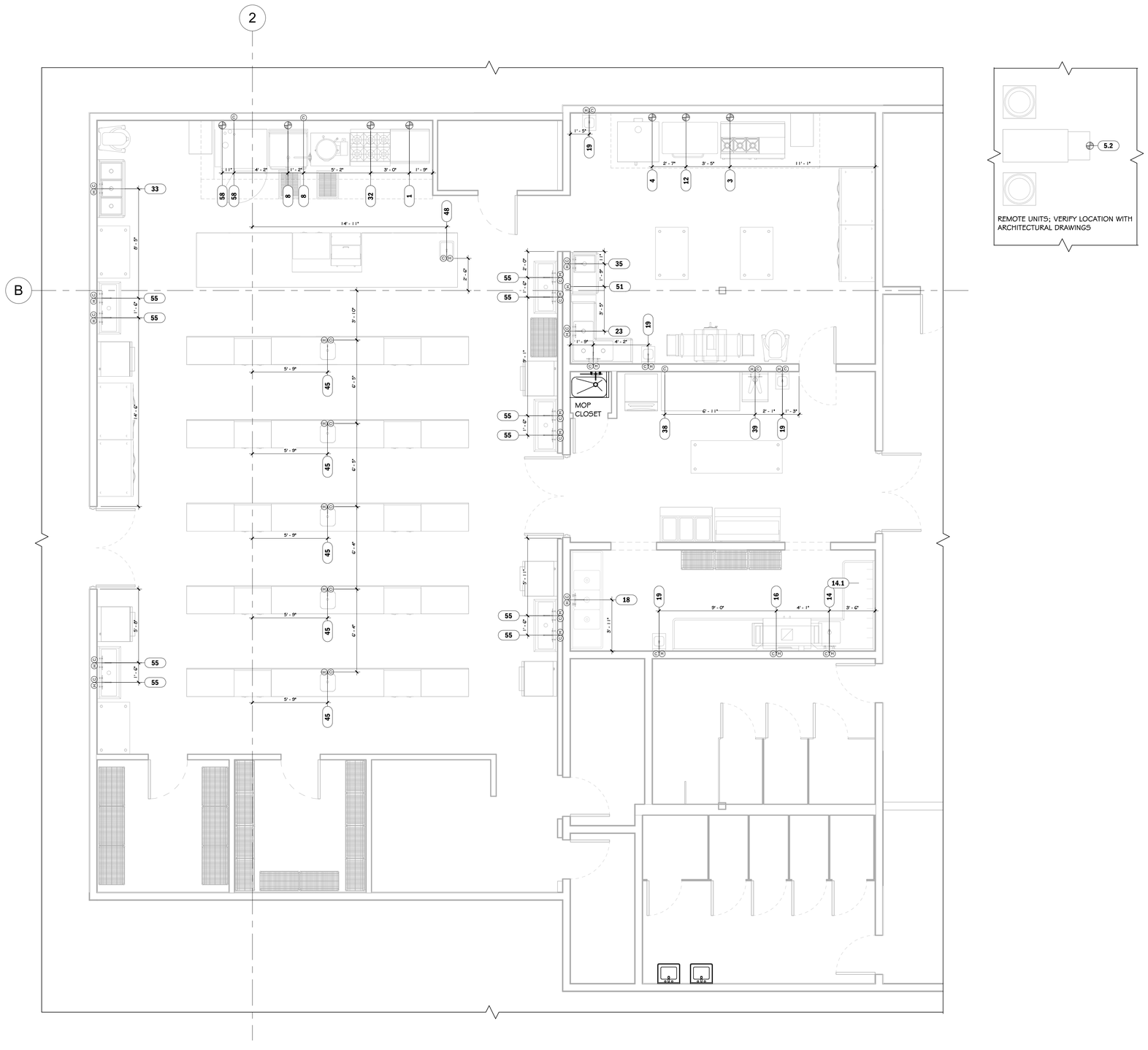

1 Plumbing Plan
1/4" = 1'-0"

(H) HW - HOT WATER

(C) CW - COLD WATER

GAS - (NATURAL)

FIELD CONNECTIONS

2 Plumbing Legend
N.T.S.

1. ALL PLUMBING UTILITIES SHOWN RELATE TO FOOD SERVICE FIXTURES AND EQUIPMENT ONLY. THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE PLUMBING DRAWINGS FOR ANY ADDITIONAL PLUMBING UTILITIES.
2. THIS PLUMBING PLAN IS INTENDED TO SHOW ROUGH-IN LOCATIONS AND HEIGHTS, CONNECTION SIZES, POSITIONS, HEIGHT, AND LOAD REQUIREMENTS. DIMENSIONS SHOWN ARE FROM FINISHED FLOORS AND FINISHED WALLS, OR COLUMN CENTER LINES. VERIFY WALL PARTITION LOCATIONS WITH ARCHITECTURAL DRAWINGS.
3. PLUMBING CONTRACTOR SHALL ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL FOOD SERVICE EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS.
4. PLUMBING CONTRACTOR SHALL FURNISH ALL INDIRECT WASTE PIPING, SHUT-OFF VALVES (WATER), PRESSURE REDUCING VALVES, WATER HAMMER ARRESTORS, ETC., AS REQUIRED TO MAKE EACH PIECE OF EQUIPMENT FULLY OPERATIONAL.
5. REFER TO FOOD SERVICE EQUIPMENT SUPPLIER'S DRAWINGS FOR ALL EQUIPMENT IDENTIFICATION.
6. ALL VACUUM BREAKERS AND CHECK VALVES SHALL BE INSTALLED SUCH THAT THEY CAN BE VISUALLY INSPECTED BY LOCAL HEALTH DEPARTMENT REPRESENTATIVE.

3 Plumbing Notes
N.T.S.

4 Not Used
N.T.S.

KaTom RESTAURANT SUPPLY INC.
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t (865) 225-1545 f (800) 821-9130
www.KaTom.com

A New Facility For:

Heritage Park Addition

115 Durham Drive, Maynardville, TN 37807

03/27/24
APPROVED FOR CONSTRUCTION

Project Number:	23045.00
Date:	03/27/24
Project Mgr :	M. Knoebel
Drawn By:	H. Phillips
Checked By:	M. Holbert

Drawing Issued For:
- ○ Schematic Design
- ○ Design Development
- ● Construction

Revisions:

No.	Date	Description

Sheet Title:
Kitchen Equipment
Plumbing Plan

Sheet No:
K3.0

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User:H. Phillips
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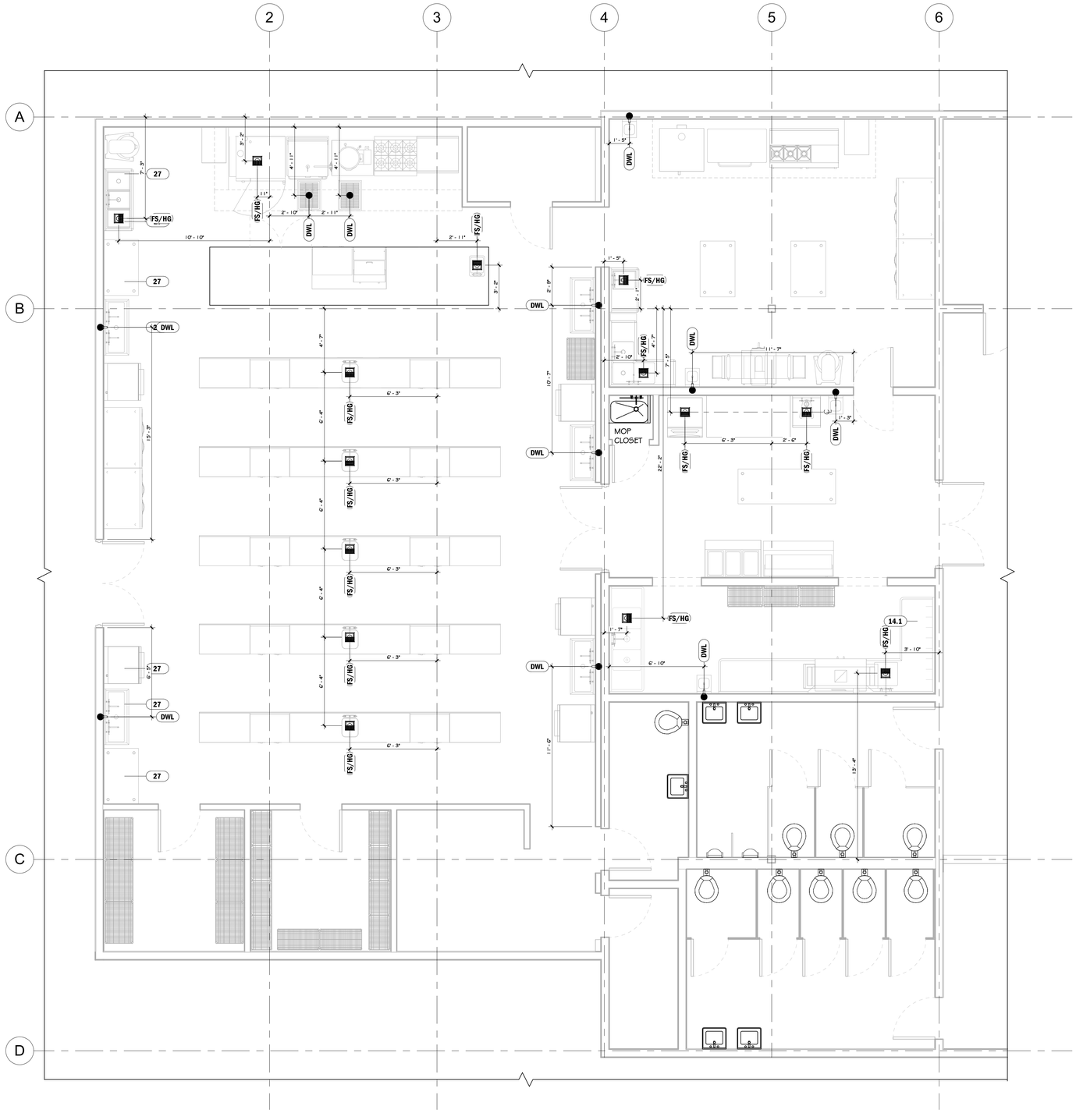

1 Waste Plan
1/4" = 1'-0"

DWL - DIRECT WASTE LINE

FIELD CONNECTIONS

FFD - FLOOR DRAIN W/ FUNNEL

FS/HG - FLOOR SINK W/ HALF GRATE

FS/FG - FLOOR SINK W/ FULL GRATE

FS/NG - FLOOR SINK W/ NO GRATE

2 Waste Legend
N.T.S.

1. ALL DRAINS DEDICATED FOR EQUIPMENT, INCLUDING FLOOR TROUGHS, MUST BE FLUSH WITH PLANE OF SURROUNDING FLOOR.
2. GENERAL PURPOSE FLOOR DRAINS, INCLUDING FLOOR TROUGHS, IN AREAS OF HIGH TRAFFIC MUST BE FLUSH WITH PLANE OF SURROUNDING FLOOR.
3. ALL FLOOR DRAINS AND FLOOR SINKS TO BE LOCATED BY A LICENSED PLUMBING ENGINEER. FLOOR DRAIN LOCATIONS ON THIS PLAN ARE APPROXIMATE.
4. DRAIN LINES ARE BY THE PC. PC TO MANIFOLD MULTIPLE WASTE CONNECTIONS AND EXTEND SAFE WASTE OR DIRECT CONNECTIONS AS REQUIRED. IT IS HIGHLY RECOMMENDED THAT THE FIRST 20 FEET OF ALL DRAINS ARE MADE OF CAST IRON. HIGHT TEMP DRAIN WATER CAN DAMAGE PVC PIPES AND DISSOLVE JOINT ADHESIVE.
5. CONDENSATE DRAIN LINE FROM EVAP. COILS TO WALK-IN BOX IS BY THE PC, AND SHOULD BE INSTALLED WITH A SLOPE OF 1/4" PER LINEAR FOOT OF PIPING.

3 Waste Notes
N.T.S.

4 Not Used
N.T.S.

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Drawn By:	H. Phillips
Checked By:	M. Holbert

Drawing Issued For:
- ○ Schematic Design
- ○ Design Development
- ● Construction

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Sheet Title:
Kitchen Equipment
Waste Plan

Sheet No:
K4.0

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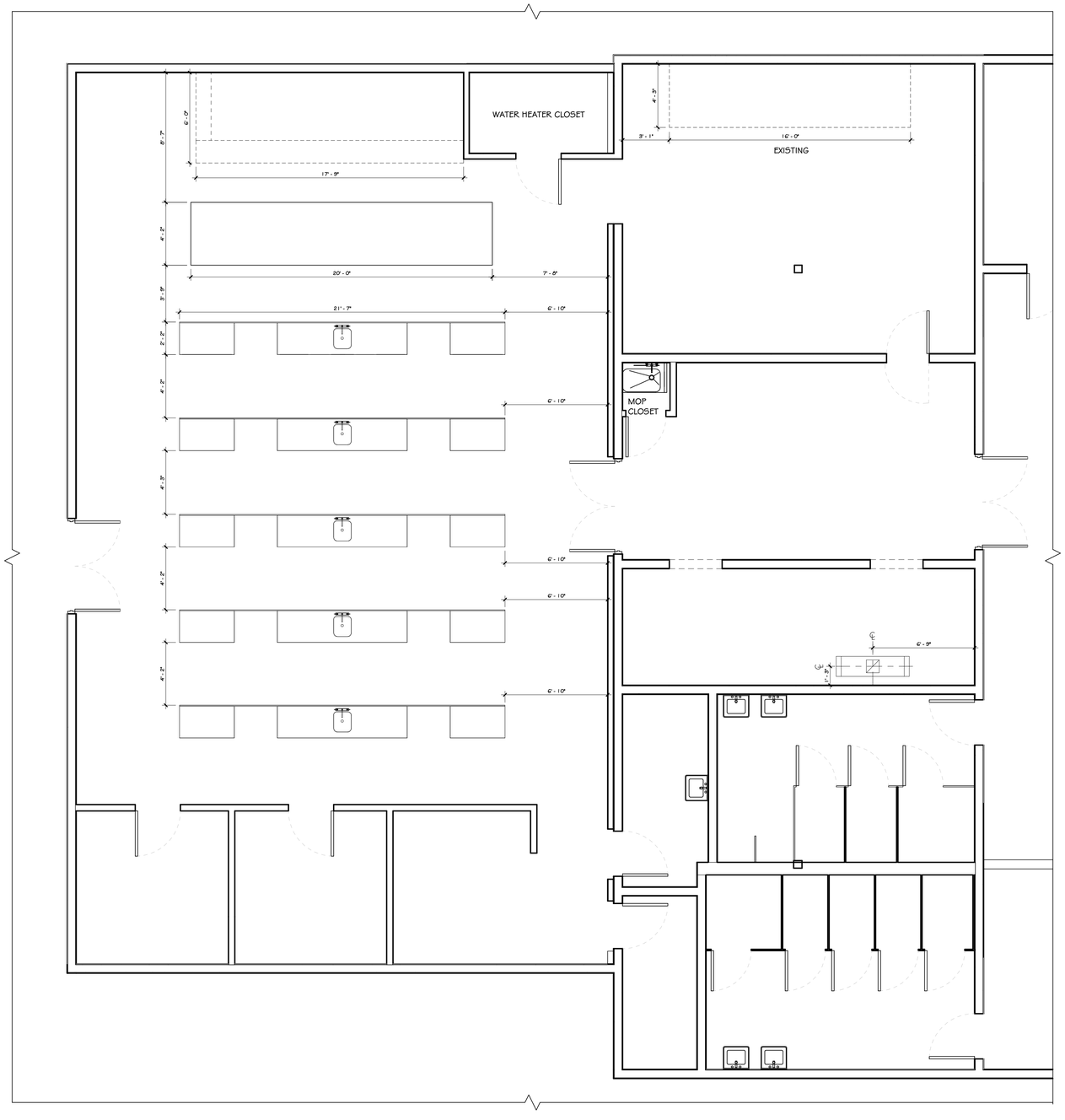

1 **Special Conditions Plan**
1/4" = 1'-0"

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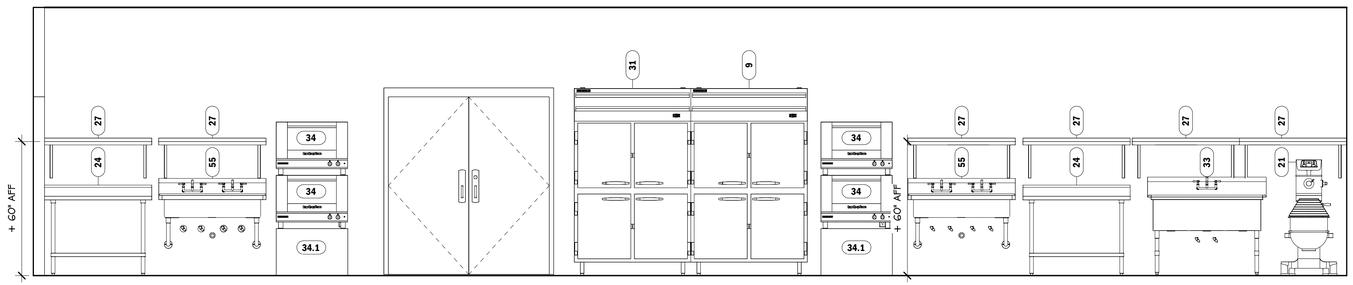
Revisions:

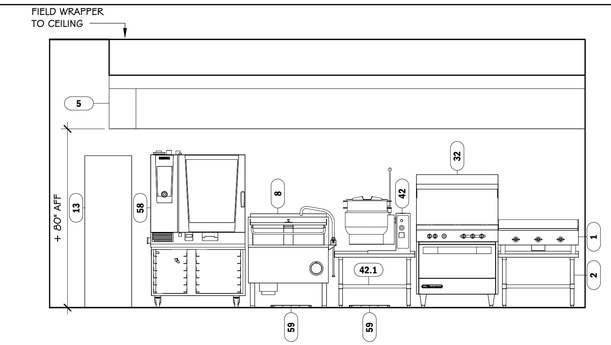
No.	Date	Description

Sheet Title:
Kitchen Equipment
Special Conditions Plan

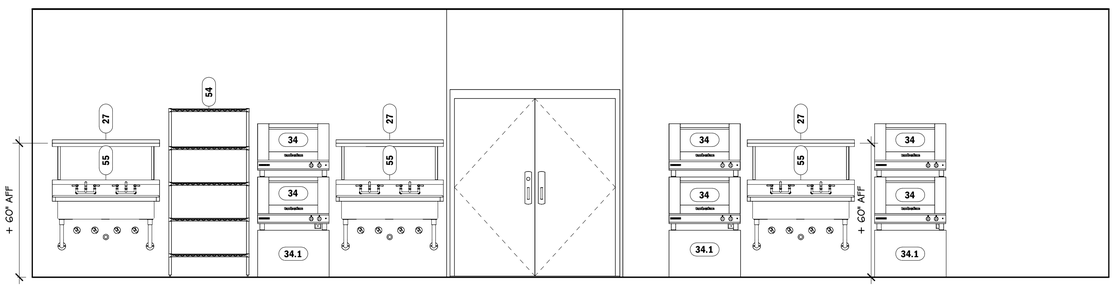
Sheet No:
K5.0



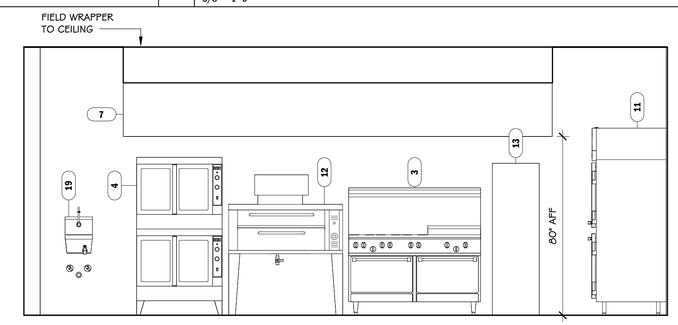
1 Interior Elevation - Classroom West Wall
3/8" = 1'-0"



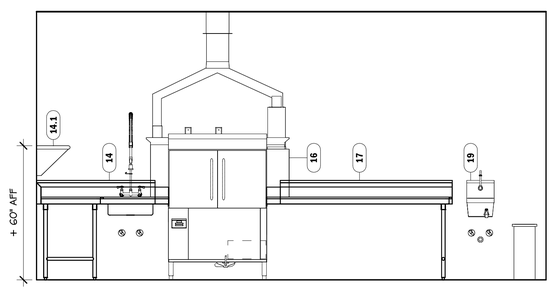
2 Interior Elevation - Classroom Cookline
3/8" = 1'-0"



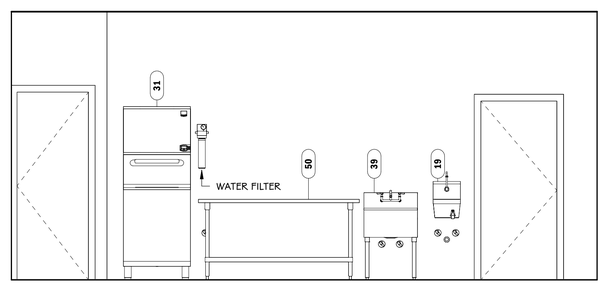
3 Interior Elevation - Classroom East Wall
3/8" = 1'-0"



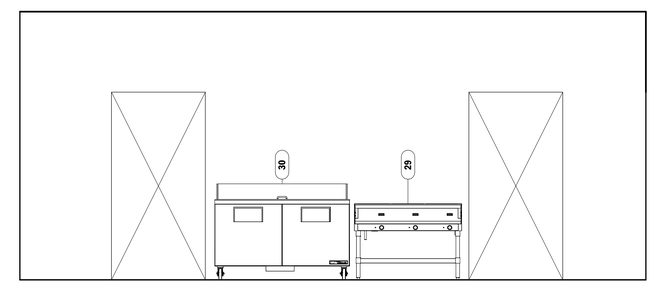
4 Interior Elevation - Kitchen Cookline
3/8" = 1'-0"



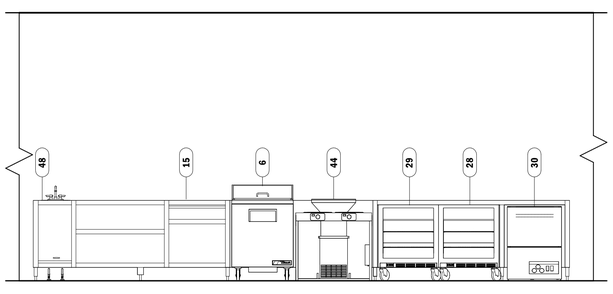
5 Interior Elevation - Dish Area
3/8" = 1'-0"



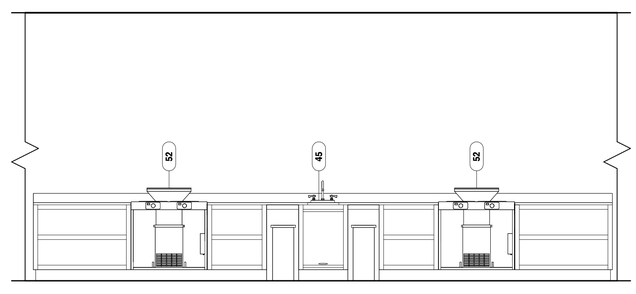
6 Interior Elevation - Concessions North Wall
3/8" = 1'-0"



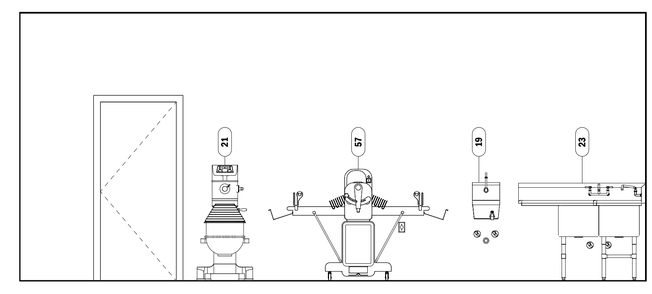
7 Interior Elevation - Concessions South Wall
3/8" = 1'-0"



8 Interior Elevation - Classroom Teaching Station
3/8" = 1'-0"



9 Interior Elevation - Classroom Student Work Station
3/8" = 1'-0"



10 Interior Elevation - Bakery/Prep Area
3/8" = 1'-0"

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Checked By:	M. Holbert

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- ○ Design Development
- ● Construction

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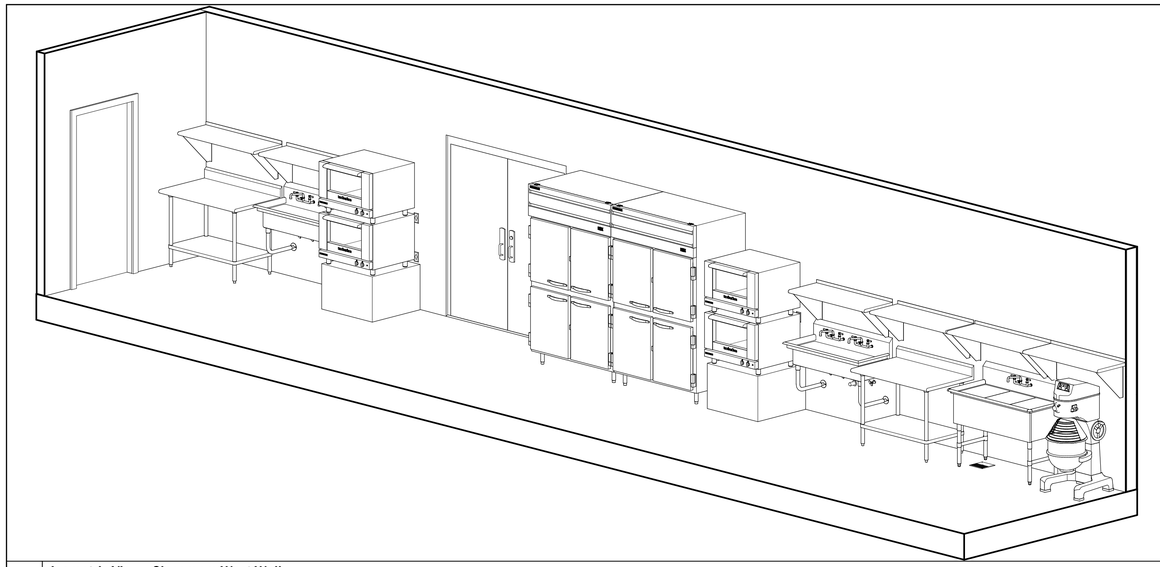
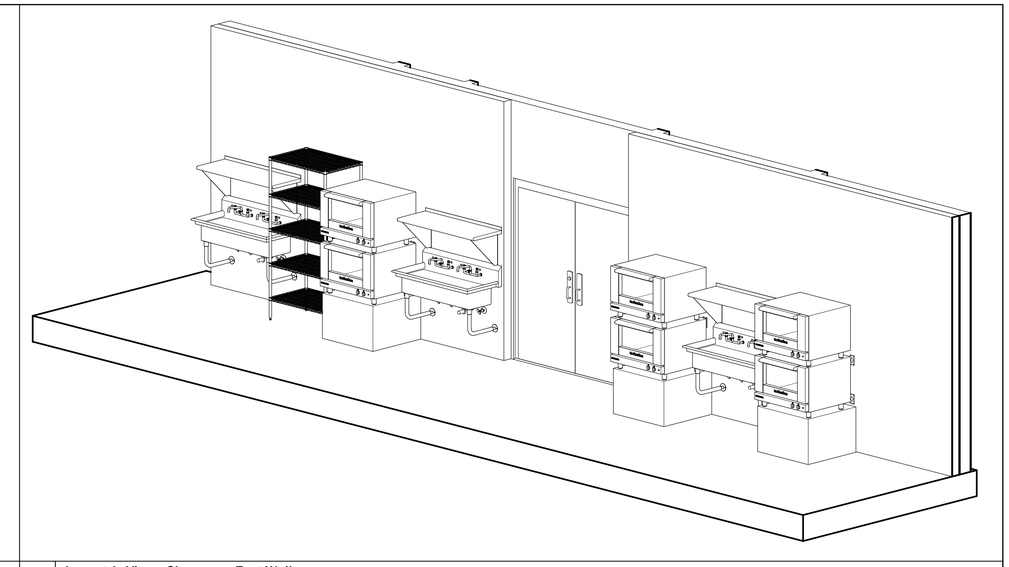
Sheet Title:
Kitchen Equipment
Elevations

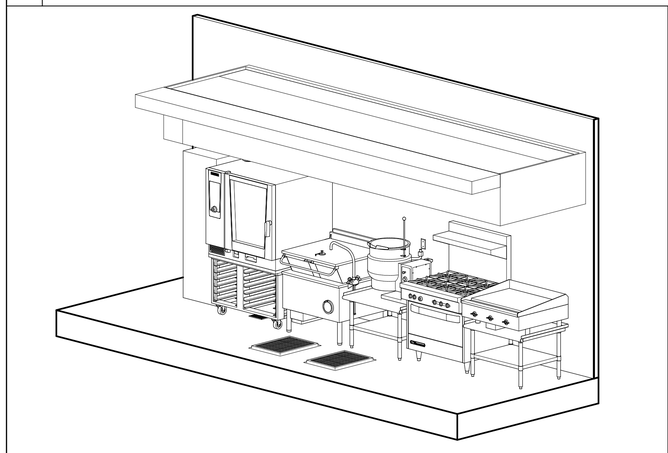
Sheet No:
K6.0



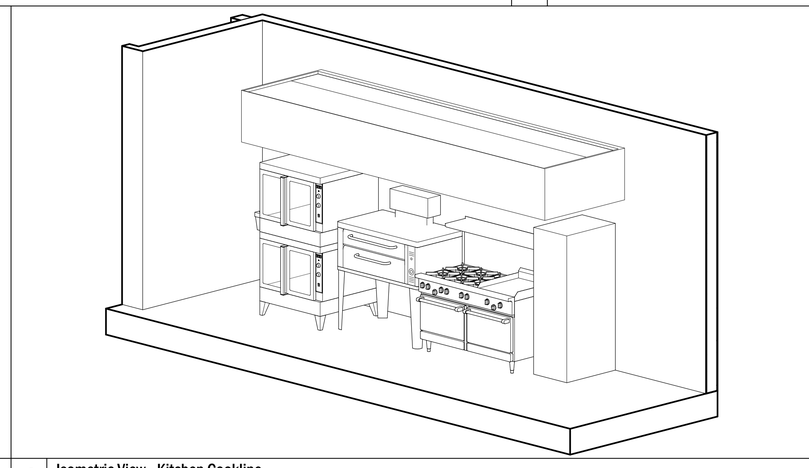
1 Isometric View - Classroom West Wall



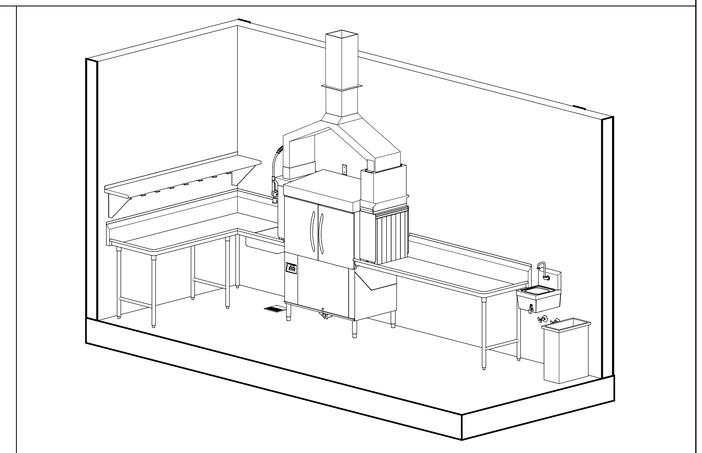
2 Isometric View - Classroom East Wall



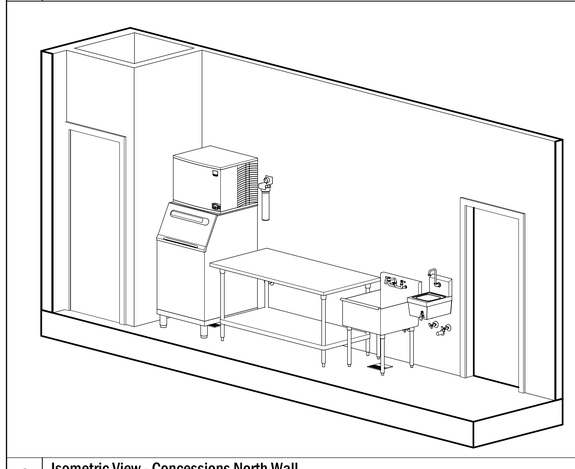
3 Isometric View - Classroom Cookline



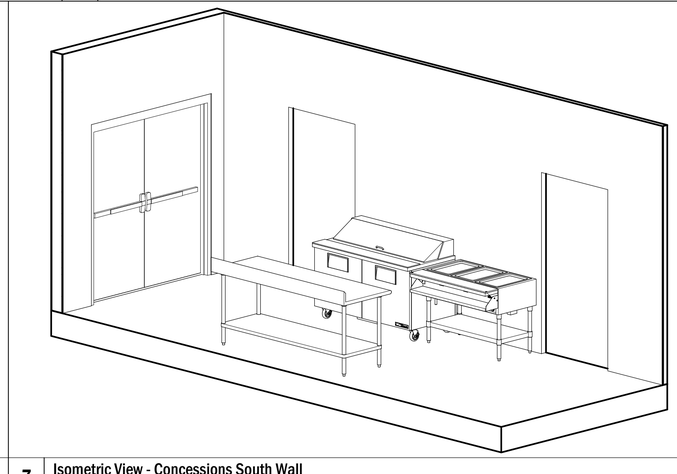
4 Isometric View - Kitchen Cookline



5 Isometric View - Dish Area



6 Isometric View - Concessions North Wall



7 Isometric View - Concessions South Wall

8 Not Used

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Kitchen Equipment
Isometric Views

Sheet No:

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PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION	SPECIFICATION
W1 - ADA	WATER CLOSET	ZURN, Z5551-(LH/RH)-K HPT 1.6GPF FLOOR MOUNTED TANK TYPE HIGH PERFORMANCE 1000G Map RATING 3" FLUSH ACTION ADA HEIGHT WATER CLOSET WITH TANK LEVER TO BE DETERMINED BY OPEN AREA EITHER RIGHT OR LEFT AND 2-1/8" FULLY GLAZED TRAPWAY
	SEAT	ZURN, Z5955SS-EL-STS ELONGATED WHITE OPEN FRONT TOILET SEAT LESS COVER WITH SELF SUSTAINING STAINLESS STEEL CHECK HINGE
	SUPPLY	ZURN, Z8804-XL-8860-CR-Q-PC 1/2""NOM X 3/8""OD SUPPLY KIT COMPLETE WITH QUARTER TURN STOP, BRAIDED STAINLESS STEEL SUPPLY AND ESCUTCHEON
W2	WATER CLOSET	ZURN, Z5552-(LH/RH)-K HPT 1.6GPF FLOOR MOUNTED TANK TYPE HIGH PERFORMANCE 1000G MaP RATING 3" FLUSH ACTION STANDARD HEIGHT WATER CLOSET WITH TANK LEVER TO BE DETERMINED BY OPEN AREA EITHER RIGHT OR LEFT AND 2-1/8" FULLY GLAZED TRAPWAY
	SEAT	ZURN, Z5955SS-EL-STS ELONGATED WHITE OPEN FRONT TOILET SEAT LESS COVER WITH SELF SUSTAINING STAINLESS STEEL CHECK HINGE
	SUPPLY	ZURN, Z8804-XL-8860-CR-Q-PC 1/2""NOM X 3/8""OD SUPPLY KIT COMPLETE WITH QUARTER TURN STOP, BRAIDED STAINLESS STEEL SUPPLY AND ESCUTCHEON
U	URINAL	ZURN, Z5755-U OMNI-FLOW .125 TO 1GPF WALL MOUNTED TOP SPUD ASYMMETRIC BACK WALL URINAL WITH INTEGRAL P-TRAP AND VANDAL RESISTANT OUTLET STRAINER
	FLUSH VALVE	ZURN, Z6003AV-WS1 AQUAVANTAGE MANUAL OPERATED FLUSH VALVE 1GPF CLOG RESISTANT TRIPLE FILTERED BY-PASS, DUAL SEAL AND CHLORAMINE RESISTANT INTERNAL PARTS
	CARRIER	PROVIDE WITH APPROPRIATE APPROVED ZURN CARRIER
L - ADA	LAVATORY	ZURN, Z5344 20"X18" WALL HUNG 4"CC VITREOUS CHINA CONCEALED ARM LAVATORY
	FAUCET	ZURN, Z7440-XL-FC SIERRA SINGLE HANDLE 4CC LAVATORY FAUCET WITH .5GPM AERATOR AND CERAMIC DISC CARTRIDGE
	DRAIN	Zurn, Z8746-PC 1-1/4" CHROME PLATED CAST BRASS 17GA OFFSET GRID DRAIN
	SUPPLIES	ZURN, Z8804-XL-8860-20-LRQ-PC 1/2" X 3/8" COMP X COMP LAVATORY SUPPLY KIT WITH ESCUTCHEONS, 1/4 TURN CHROME PLATED STOPS AND 20 INCH BRAIDED STAINLESS STEEL SUPPLY LINES
	P-TRAP	ZURN, Z8700-PC 1-1/4" CAST BRASS 17GA P-TRAP WITH CLEANOUT
	THERMOSTATIC MIXING VALVE	SYMMONS, 8-210-CK MAXLINE 3/8" THERMOSTATIC ASSE 1017/1070 MIXING VALVE
	TRAP WRAP	ZURN, Z8946-3-NT COMBINATION TRAP WRAP KIT WITH ONE OFFSET TRAP AND TWO SUPPLY PROTECTION WRAPS
	CARRIER	PROVIDE WITH APPROPRIATE APPROVED ZURN CARRIER
WH	WALL HYDRANT	ZURN, Z1321 FREEZE PROOF, LOOSE KEY STYLE EXPOSED HOSE BIBB WITH INTEGRAL VACUUM BREAKER
FD	FLOOR DRAIN	ZURN, ZN415-5BZ1 FLOOR OR SHOWER DRAIN, DURA-COATED CAST IRON BODY, 5" ROUND POLISHED NICKEL BRONZE STRAINER, PROTECTIVE STRAINER COVER TO PROTECT DURING CONCRETE POUR, POST POUR HEIGHT ADJUSTMENT AND LEVELING SHIMS TO CORRECT TILT
	TRAP SEAL	ZURN, Z1072 ZSHIELD BARRIER TRAP SEAL DEVICE
FS	FLOOR SINK	ZURN, ZN1901-1 WHITE ACID RESISTING PORCELAIN ENAMELED CAST IRON FLOOR SINK 12" X 12" X 8" WITHOUT GRATE AND WHITE ABS BOTTOM DOME STRAINER
FCO	CLEANOUT	ZURN, ZN1400-BZ1 DURA-COAT CAST IRON ADJUSTABLE CLEANOUT, NICKEL BRONZE TOP, PROTECTIVE STRAINER COVER TO PROTECT DURING CONCRETE POUR, POST POUR HEIGHT ADJUSTMENT AND LEVELING SHIMS TO CORRECT TILT
GCO	CLEANOUT	ZURN, Z1400-BZ1 DURA-COAT CAST IRON ADJUSTABLE CLEANOUT, CAST IRON TOP, PROTECTIVE STRAINER COVER TO PROTECT DURING CONCRETE POUR, POST POUR HEIGHT ADJUSTMENT AND LEVELING SHIMS TO CORRECT TILT
WCO	CLEANOUT	ZURN, Z1446 WALL CLEANOUT TEE WITH STAINLESS STEEL ROUND ACCESS COVER
WB	WASHER BOX	SYMMONS LM600-F-A LAUNDRYMATE WASHING MACHINE BOX WITH AA SIZE WATER HAMMER ARRESTORS AND FUNNEL FOR DRAIN PIPE SECUREMENT
IMB	ICE MAKER BOX	SYMMONS IM600-A ICEMATE ICE MAKER BOX WITH AA SIZE WATER HAMMER ARRESTOR

PLUMBING LEGEND

- WASTE ABOVE GRADE
- WASTE BELOW GRADE
- VENT
- GW — GREASE WASTE ABOVE GRADE
- GW — GREASE WASTE BELOW GRADE
- COLD WATER
- HOT WATER
- HOT WATER RECIRCULATING
- 140 — 140 HOT WATER
- 140R — 140 HOT WATER RECIRCULATING
- LP — LIQUID PROPANE
- BALL VALVE
- GAS COCK
- INDICATES CONNECTION OF NEW PIPING TO EXISTING

PLUMBING SYMBOLS

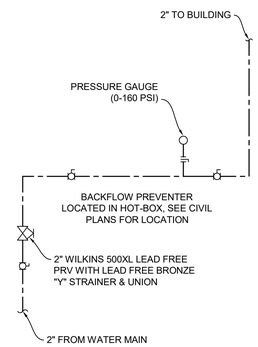
V	VENT
VS	VENT STACK
VTR	VENT THRU ROOF
WS	WASTE STACK
CO	CLEAN OUT
RD	ROOF DRAIN
RL	RAINWATER LEADER
WH	WALL HYDRANT
2/3	2" VS/3"WS
WMF	WASHING MACHINE FITTING
FD	FLOOR DRAIN
HD	HUB DRAIN

PLUMBING SPECIFICATIONS

1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE PLUMBING SYSTEM AS INDICATED AND SPECIFIED ON THE DRAWINGS.
2. WORK SHALL COMPLY WITH THE INTERNATIONAL PLUMBING CODE AND ALL APPLICABLE LAWS, ORDINANCES & CODES OF THE STATE OF TENNESSEE, LOCAL AUTHORITIES HAVING JURISDICTION AND WITH APPLICABLE RULES & REGULATIONS.
3. OBTAIN ALL PERMITS & INSPECTIONS REQUIRED FOR THE COMPLETION OF THE WORK & PAY ALL FEES & COSTS IN CONNECTION THEREWITH.
4. THE PLUMBING DRAWINGS ARE GENERALLY DIAGRAMMATIC AND UNLESS SPECIFICALLY DIMENSIONED, THE LOCATIONS OF FIXTURES AND EQUIPMENT AND THE ROUTING OF PIPING IS APPROXIMATE ONLY AND SHALL NOT BE SCALED FROM THE PLUMBING DRAWINGS.
5. INSTALL ALL EQUIPMENT AND FIXTURES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
6. INTERIOR SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC SOLID WALL-DWV ASSEMBLED WITH SOLVENT WELD JOINTS.
7. THE TOP OF ANY BELOW SLAB PIPING SHALL BE NO LESS THAN 2" FROM THE BOTTOM OF THE SLAB.
8. INSTALL CLEANOUTS IN ACCESSIBLE LOCATIONS AT BASE OF ALL SOIL AND WASTE STACKS AND ELSEWHERE AS INDICATED ON THE DRAWINGS.
9. THIS CONTRACTOR IS TO ARRANGE WITH THE LOCAL UTILITY COMPANY FOR INSTALLATION OF THE LP SERVICE, METER, REGULATOR, ETC. AND PAY ALL COSTS FOR PERMITS, FEES, INSTALLATION AND INSPECTIONS. LP SERVICE PRESSURE SHOWN ON DRAWINGS SHALL BE VERIFIED WITH UTILITY BEFORE STARTING WORK.
10. INSTALLATION OF LP PIPING SHALL COMPLY WITH THE LOCAL UTILITY CO., INTERNATIONAL GAS CODE, NFPA AND ALL OTHER AGENCIES HAVING JURISDICTION. ABOVE GROUND PIPING SHALL BE SCHEDULE 40 BLACK STEEL ASSEMBLED WITH MALLEABLE IRON FITTINGS & GROUND JOINT UNIONS. LP PIPING AT EACH APPLIANCE SHALL HAVE DIRT LEG & AND AGA GAS COCK. PAINT ALL LP PIPING ON THE EXTERIOR AND INTERIOR OF THE BUILDING WITH TWO COATS OF CAUTION YELLOW PAINT.
11. UNDERGROUND LP PIPING SHALL BE COATED TYPE AS APPROVED AND USED BY THE UTILITY AND SHALL BE INSTALLED AT A MINIMUM DEPTH OF 18" BELOW FINISHED GRADE. AT THE CONTRACTOR'S OPTION, UNDERGROUND LP PIPING MAY BE PLEXCO YELLOWPIPE, OR EQUAL POLYETHYLENE TYPE II, CLASS B, CATEGORY 5, GRADE P24 OR AS APPROVED BY THE LOCAL UTILITY.
12. ABOVE GRADE DOMESTIC WATER PIPING SHALL BE HARD DRAWN COPPER, TYPE "L" PIPING ASSEMBLED WITH WROUGHT COPPER SOLDER FITTINGS. CONNECTIONS OF COPPER PIPE TO FERROUS PIPE SHALL BE MADE WITH DIELECTRIC UNIONS OR COUPLINGS.
13. BELOW GRADE DOMESTIC WATER PIPING LOCATED INSIDE THE BUILDING SHALL BE SOFT DRAWN COPPER, TYPE "K", ASSEMBLED WITH WROUGHT COPPER SOLDER FITTINGS. THERE SHALL BE NO FITTINGS BELOW GRADE.
14. DOMESTIC WATER PIPING MAY BE CROSSLINKED POLYETHYLENE PEXA AS MANUFACTURED BY REHAU. FITTINGS SHALL BE AS RECOMMENDED BY THE PEX MANUFACTURER. PIPE SIZES ARE BASED UPON COPPER. INCREASE SIZES AS RECOMMENDED BY THE MANUFACTURER. ALL STUB OUTS SHALL BE PEX TO COPPER WITH WALL MOUNTING PLATE OR BRACKET.
15. ALL COLD WATER, HOT WATER AND HOT WATER RECIRCULATING LINES SHALL BE INSULATED WITH ARMAFLEX, OR EQUAL, WITH A FLAME SPREAD AND SMOKE DEVELOPED RATING NOT EXCEEDING 25 AND 50 RESPECTIVELY.

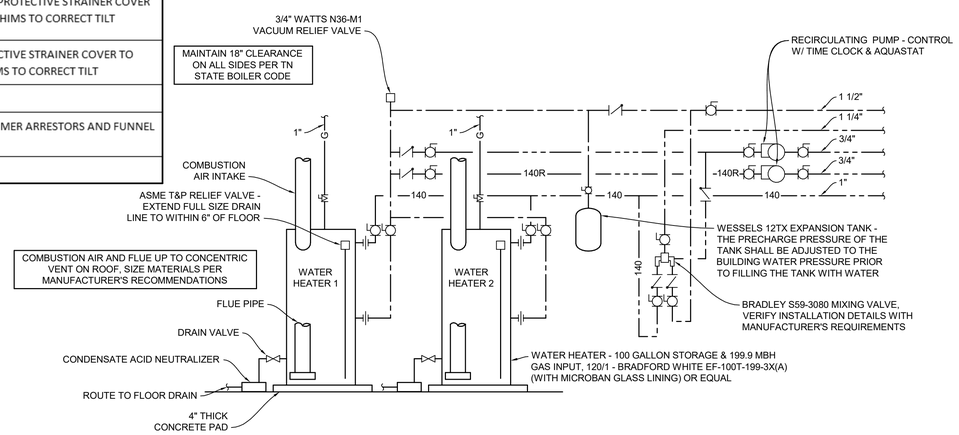
    COLD WATER
    1/2 TO 1 1/4" PIPE - 1/2" THICK INSULATION
    1 1/2" TO 8" PIPE - 1" THICK INSULATION

    HOT WATER & HOT WATER RECIRCULATING
    1/2" TO 1 1/4" PIPE - 1" THICK INSULATION
    1" TO 8" PIPE - 1 1/2" THICK INSULATION
16. ALL COLD WATER PIPING IN OUTSIDE WALLS OR WALLS ADJACENT TO AN UNHEATED SPACE SHALL BE INSULATED AS SPECIFIED WITH A MINIMUM OF 1" THICKNESS.
17. ALL COLD, HOT AND HOT WATER RECIRCULATING PIPING SHALL BE INSTALLED WITHIN THE INSULATION ENVELOPE UNLESS PROVIDED WITH HEAT TRACE.
18. THE TAILPIECE, TRAP & WATER SUPPLIES FOR ALL HANDICAPPED LAVATORIES SHALL BE INSULATED WITH MOLDED ANTIMICROBIAL INSULATION KIT EQUAL TO TRUEBRO, INC. HANDI-LAV GUARD. VERIFY COLOR WITH THE ARCHITECT.
19. HOT WATER CIRCULATOR SHALL BE GRUNDFOS UPS 15-55 SFC, OR APPROVED SUBSTITUTE, STAINLESS STEEL HOUSING, CERAMIC AXIAL BEARINGS, STAINLESS STEEL ROTOR CAN AND BEARING PLATE AND CORROSION RESISTANT COMPOSITE IMPELLER CAPABLE OF CIRCULATING 8 GPM AT 10 FEET HEAD, FURNISHED WITH MANUAL STARTER AND STRAP-ON AQUASTAT.
20. DUAL CHECK VALVES SHALL BE ZURN 700XL.
21. WASHING MACHINE FITTING & "P" TRAP SHALL BE INSTALLED SUCH THAT THERE IS A MINIMUM DRAIN HEIGHT OF 30" AND A MAXIMUM DRAIN HEIGHT OF 48" WITH A MINIMUM 2" DRAIN DIAMETER.
22. FIRE STOPPING SYSTEM SHALL BE PROVIDED AND INSTALLED THROUGH ALL FIRE RATED WALLS, CEILINGS, FLOORS, PARTITIONS OR CONSTRUCTION.
23. SUBMIT TO THE ARCHITECT FOR APPROVAL, 10 DAYS AFTER RECEIPT OF NOTICE TO PROCEED WITH THE WORK, A COMPLETE LIST OF MATERIALS, EQUIPMENT AND ACCESSORIES PROPOSED FOR USE, INCLUDING COMPLETE DESCRIPTIONS AND SPECIFICATIONS OF ANY PROPOSED SUBSTITUTIONS, MANUFACTURER'S SHOP DRAWINGS, ROUGHING-IN DRAWINGS, AND ANY OTHER INFORMATION REQUIRED FOR THE PROPER INSTALLATION OF THE WORK. SUBMITTALS SHALL BE IN PDF FORMAT (NO PAPER COPIES).
24. AFTER THE WATER SYSTEM HAS BEEN TESTED FOR LEAKS AND BEFORE THE SYSTEM HAS BEEN PLACED IN USE, INTRODUCE HTH SOLUTION, CHLORINE GAS, OR OTHER SIMILAR CHLORINATING AGENT IN SUFFICIENT QUANTITY TO PRODUCE A RESIDUAL OF 100 PPM THROUGHOUT THE ENTIRE SYSTEM AND ALLOW TO STAND THUS FILLED FOR 24 HOURS. AFTER THE 24 HOURS PERIOD, FLUSH CLEAN WATER THROUGHOUT THE PIPING SYSTEM UNTIL ALL NOTICEABLE TRACE OF CHLORINE GAS HAS DISAPPEARED. VERIFY PROCEDURES AND TESTING REQUIREMENTS WITH THE PUBLIC HEALTH AGENCY HAVING JURISDICTION.
25. THE WORK SHALL BE GUARANTEED AGAINST ALL DEFECTIVE MATERIALS & WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE. THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS WITHOUT COST TO THE OWNER.



WATER SERVICE DETAIL

N.T.S.



WATER HEATER PIPING DIAGRAM

N.T.S.

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Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

STEVEN DANIEL ZIMMERMAN
REGISTERED ARCHITECT
04/01/24
UNITED STATES OF AMERICA
STATE OF TENNESSEE

PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION

SCHEDULES & DETAILS

P001

PROJECT DATE	PROJECT NUMBER
04/01/24	23071

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BEDINGER CONSULTING ENGINEERS
5641 MERCHANTS CENTER BLVD; STE A104
KNOXVILLE, TENNESSEE 37912
T 865.637.8339 • F 865.523.8186
BCE1946.COM

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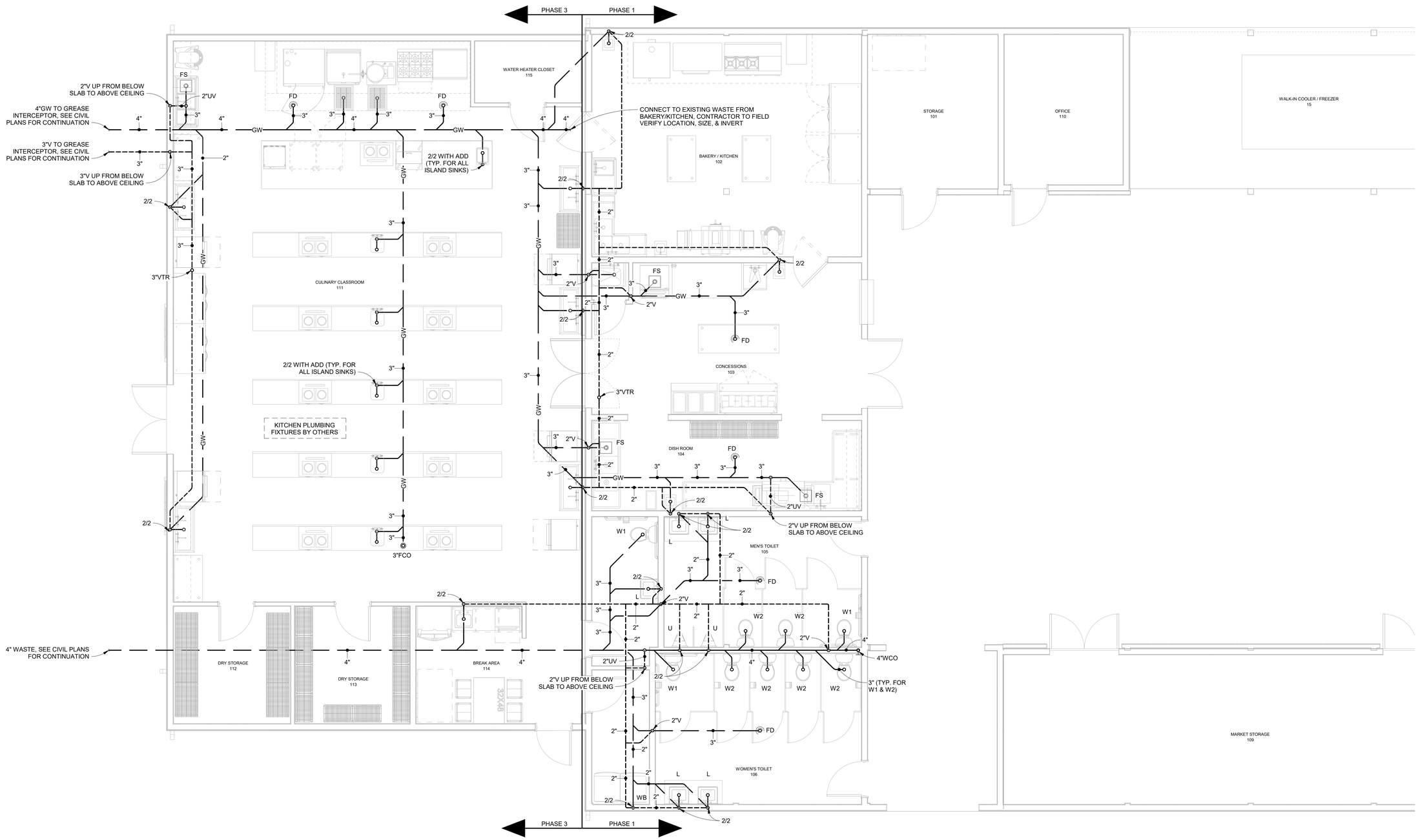

FLOOR PLAN - WASTE

1/4" = 1'-0"

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ph 865.637.8540 / fx 865.544.3840
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SHEET DESCRIPTION

FLOOR PLAN - WASTE

P101

PROJECT DATE	PROJECT NUMBER
04/01/24	23071

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5641 MERCHANTS CENTER BLVD; STE A104
KNOXVILLE, TENNESSEE 37912
T 865.637.8339 • F 865.523.8186
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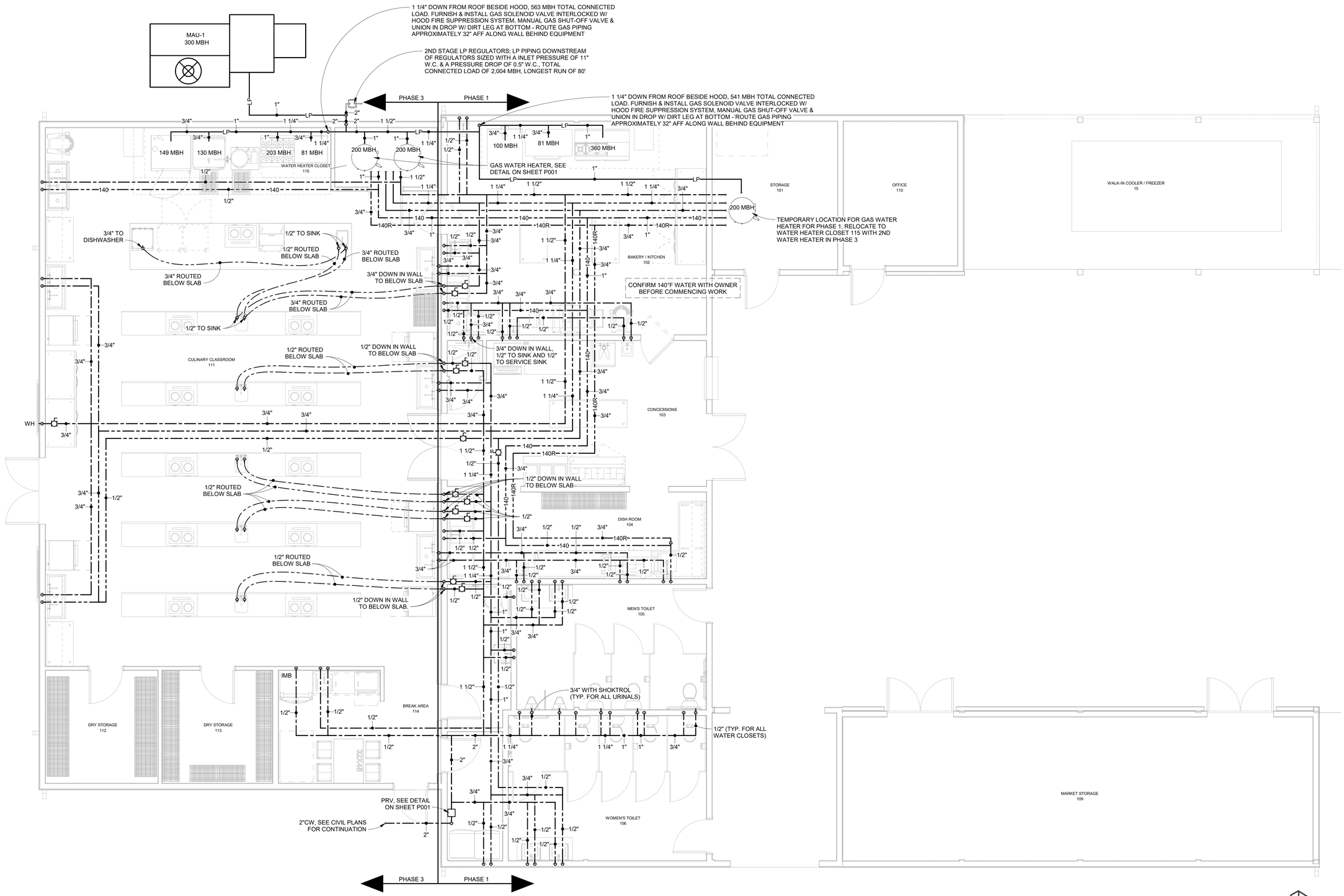

FLOOR PLAN - WATER & LP

1/4" = 1'-0"

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402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
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SHEET DESCRIPTION

FLOOR PLAN - WATER & LP

P102

PROJECT DATE	PROJECT NUMBER
04/01/24	23071

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BEDINGER CONSULTING ENGINEERS
5641 MERCHANTS CENTER BLVD; STE A104
KNOXVILLE, TENNESSEE 37912
T 865.637.8339 • F 865.523.8186
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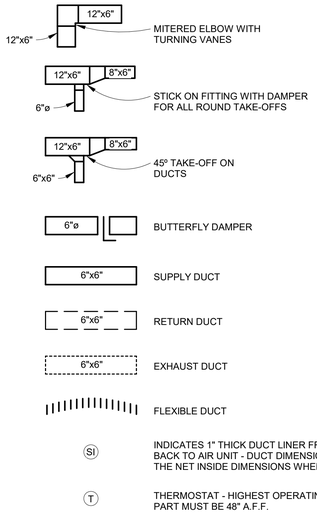
DUCT LEGEND



HVAC SPECIFICATIONS

1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE HEATING AND COOLING SYSTEM AS INDICATED AND SPECIFIED ON THE DRAWINGS.
2. WORK SHALL COMPLY WITH IMC, NFPA, ALL APPLICABLE LAWS, ORDINANCES & CODES OF THE STATE OF TENNESSEE, LOCAL AUTHORITIES HAVING JURISDICTION AND WITH APPLICABLE RULES & REGULATIONS.
3. OBTAIN ALL PERMITS & INSPECTIONS REQUIRED FOR THE COMPLETION OF THE WORK & PAY ALL FEES & COSTS IN CONNECTION THEREWITH.
4. THE MECHANICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC AND UNLESS SPECIFICALLY DIMENSIONED, THE LOCATIONS OF DUCTWORK AND EQUIPMENT AND THE ROUTING OF DUCTWORK IS APPROXIMATE ONLY AND SHALL NOT BE SCALED FROM THE MECHANICAL DRAWINGS.
5. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
6. SUBMIT TO THE ARCHITECT FOR APPROVAL, 10 DAYS AFTER RECEIPT OF NOTICE TO PROCEED WITH THE WORK, A COMPLETE LIST OF MATERIALS, EQUIPMENT AND ACCESSORIES PROPOSED FOR USE, INCLUDING COMPLETE DESCRIPTIONS AND SPECIFICATIONS OF ANY PROPOSED SUBSTITUTIONS, MANUFACTURER'S SHOP DRAWINGS, ROUGHING-IN DRAWINGS, AND ANY OTHER INFORMATION REQUIRED FOR THE PROPER INSTALLATION OF THE WORK. SUBMITTALS SHALL BE IN PDF FORMAT (NO PAPER COPIES).
7. ALL ABOVE GRADE DUCTWORK (EXCEPT WHERE NOTED) SHALL BE GALVANIZED STEEL FABRICATED ACCORDING TO SMACNA DETAILS. DUCTS SHALL BE SIZE INDICATED ON DRAWINGS (NET INSIDE DIMENSIONS), RIGIDLY BRACED, ADEQUATELY SUPPORTED & SECURELY FASTENED IN PLACE.
8. FLEXIBLE DUCT FOR INSULATED SYSTEMS SHALL BE THERMAFLEX M-KF, OR EQUAL, PRE-INSULATED DUCT WITH A MINIMUM R-VALUE OF 6.0. FLEXIBLE DUCT FOR NON-INSULATED DUCT SYSTEMS SHALL BE THERMAFLEX S-LD, OR EQUAL. ALL FLEXIBLE DUCT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DUCT RUNS SHALL BE AS STRAIGHT AS POSSIBLE AND LIMITED TO MAXIMUM OF 5 FEET IN LENGTH.
9. INSTALL SINGLE WALL TURNING VANES AT RIGHT ANGLES AND SMALL RADIUS TURNS IN DUCTS. MAKE REDUCTIONS IN DUCT SIZE WITH TAPERED TRANSITION PIECES. TRANSITIONS FOR CONNECTIONS TO EQUIPMENT SHALL BE DESIGNED TO SUIT CONDITIONS AND SO THAT AIR FLOW IS NOT RESTRICTED.
10. IN ALL CASES, AIR VOLUMES SHALL BE ADJUSTED BY MEANS OF MANUAL DAMPERS IN THE DUCTWORK, NOT BY INTEGRAL DAMPERS IN THE TERMINAL OUTLETS OR INLETS. DUCT DAMPER POSITIONS SHALL BE MARKED WITH PERMANENT INK MARKERS OR BLACK SPRAY PAINT AFTER THE FINAL SETTING HAS BEEN MADE.
11. DUCTWORK FOR RANGE HOOD EXHAUST SYSTEM SHALL BE CONSTRUCTED OF NOT LESS THAN 18 GAUGE STAINLESS STEEL OR 16 GAUGE BLACK STEEL. ALL SEAMS AND JOINTS SHALL BE CONTINUOUSLY WELDED AND BE LIQUID-TIGHT. THE EXHAUST DUCTWORK FOR THE HOOD SHALL NOT BE INTERCONNECTED WITH ANY OTHER VENTILATION SYSTEM. WHERE DUCTWORK PASSES THROUGH WALLS, CEILINGS, OR PARTITIONS, ADEQUATE MEASURES SHALL BE TAKEN TO PREVENT COMBUSTION OF BUILDING MATERIALS AS PER NFPA 96. AN OPENING SHALL BE PROVIDED AT EACH CHANGE OF DIRECTION AND EVERY SIX FEET IN HORIZONTAL DUCTWORK TO FACILITATE CLEANING. THE OPENING SHALL BE CAPABLE OF BEING SEALED AND NOT AFFECT THE INTEGRITY OF THE DUCT SYSTEM. ALL SECTIONS OF THE DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED WITHOUT FORMING DIPS AND TRAPS AND MUST SLOPE NOT LESS THAN ¼" PER FOOT TOWARD EITHER THE HOOD OR APPROVED RESIDUE TRAP. DUCTS CANNOT PASS THROUGH FIRE PARTITIONS HAVING A FIRE RESISTANCE RATING GREATER THAN TWO HOURS. THE DUCTWORK SHALL LEAD, AS DIRECTLY AS POSSIBLE, TO THE EXTERIOR OF THE BUILDING. WHERE A DUCT CLEARANCE OF NOT LESS THAN 18" FROM COMBUSTIBLE CONSTRUCTION CANNOT BE MET, THE DUCT SHALL BE INSULATED WITH FRYEWRAP MAX 2.0 OR EQUAL FIRE RESISTANT DUCT WRAP. THE WRAP SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS TO ACHIEVE UP TO A 2 HOUR RATING. THE WRAP SHALL START FROM THE POINT AT WHICH THE DUCT ORIGINATES TO THE OUTLET TERMINAL.
12. HOOD SHALL BE INSTALLED AGAINST NON-COMBUSTIBLE MATERIAL APPROVED BY AHJ. HOOD SHALL NOT BE SCREWED INTO WOOD STUDS. FURRING CHANNEL OR OTHER MEANS SHALL BE USED IF WOOD STUDS ARE IN WALL. VERIFY WITH ARCHITECT.
13. INSULATE ALL SHEET METAL SUPPLY AIR AND OUTSIDE AIR DUCTWORK WITH 2.2" THICK OWENS-CORNING ASW DUCTWRAP. THOROUGHLY TAPE ALL JOINTS AND SEAMS.
14. LINE ALL DUCTWORK (IN ADDITION TO DUCTWRAP) WITH 1" THICK OWENS-CORNING FIBERGLASS DUCT LINER WHERE INDICATED ON THE DRAWINGS. DO NOT LINE ANY DUCTWORK LOCATED ON THE EXTERIOR OF THE BUILDING.
15. INSULATE ALL SUPPLY AND RETURN AIR DUCTWORK LOCATED OUTSIDE THE BUILDING WITH 2" THICK POLYISOCYANURATE FOIL FACED BOARD RMAX THERMASHEATH-3 (INSTALLED R-VALUE 13.1) COVERED WITH ALUMAGUARD WEATHER BARRIER MEMBRANE. INSTALLED IN STRICT ACCORDANCE WITH THE INSTRUCTIONS OF THE MANUFACTURER AND SHALL BE WATERTIGHT.
16. ROUND MOTORIZED DUCT DAMPERS SHALL BE GREENHECK MODEL VCDRM-53, OR EQUAL, WITH A LEAKAGE RATE NOT GREATER THAN 4.0 CFM PER FT2 AT 1.0 INCHES WG.
17. LOUVERS SHALL BE GREENHECK MODEL ESD-403 HIGH PERFORMANCE, DRAINABLE BLADE, STATIONARY, EXTRUDED ALUMINUM LOUVER. LOUVERS SHALL HAVE A 4" DEEP EXTRUDED ALUMINUM FRAME AND DRAINABLE BLADES POSITIONED AT 37 DEGREE AND 45 DEGREE ANGLES ON 4" CENTERS. LOUVERS SHALL BEAR THE AMCA CERTIFIED RATINGS SEAL FOR BOTH AIR PERFORMANCE AND WATER PENETRATION. EXPANDED ALUMINUM BIRD SCREEN IN REMOVABLE FRAME SHALL BE INSTALLED ON THE INSIDE OF ALL LOUVERS. LOUVERS SHALL HAVE A KYNAR FINISH WITH COLOR AS SELECTED BY THE ARCHITECT.
18. VISIBLE INTERIOR PORTIONS OF DUCTS AT GRILLES AND REGISTERS SHALL BE GIVEN A COAT OF FLAT BLACK PAINT BEFORE GRILLES AND REGISTERS ARE INSTALLED.
19. EXHAUST FANS SHALL BE GREENHECK, LOREN COOK, PENNBARRY OR APPROVED SUBSTITUTE, AND BE AS SCHEDULED ON THE DRAWINGS AND HAVE THE ACCESSORIES AS NOTED ON THE DRAWINGS. FAN MOTORS SHALL HAVE BUILT-IN THERMAL OVERLOAD PROTECTION. THE UNITS SHALL BE FURNISHED WITH UNIT MOUNTED SAFETY DISCONNECT. THE UNITS SHALL BE UL LISTED AND BEAR THE AMCA CERTIFIED RATINGS SEAL FOR SOUND AND AIR PERFORMANCE. VERIFY VOLTAGE BEFORE ORDERING EQUIPMENT.
20. THE MANUFACTURER'S AUTHORIZED AGENT OF EQUIPMENT INSTALLED ON THE JOB SHALL VERIFY THE REFRIGERATION PIPING SIZES, DETAILS AND ARRANGEMENTS FOR ADEQUACY. THE REFRIGERATION PIPING SHALL BE COPPER WITH HIGH TEMPERATURE SOLDER JOINTS.
21. PER THE IECC, REFRIGERANT SUCTION PIPING LESS THAN 1" NOMINAL DIAMETER SHALL BE INSULATED WITH NO LESS THAN 0.75" THICK ARMSTRONG ARMAFLEX II INSULATION. THICKNESS OF ALL OTHER SUCTION PIPING INSULATION SHALL BE NO LESS THAN 1".
22. PER THE IECC, FOR HEAT PUMPS, REFRIGERANT LIQUID PIPING LESS THAN 1.5" NOMINAL DIAMETER SHALL BE INSULATED WITH NO LESS THAN 1.0" THICK ARMSTRONG ARMAFLEX II INSULATION. INSULATION THICKNESS FOR ALL OTHER REFRIGERANT LIQUID PIPING FOR HEAT PUMPS SHALL BE NO LESS THAN 1.5".
23. ALL REFRIGERANT LINE INSULATION LOCATED OUTSIDE OF THE BUILDING SHALL BE PAINTED WITH TWO COATS OF LATEX SEMI-GLOSS PAINT OR OTHER MEANS BE PROVIDED TO PROTECT INSULATION FROM ULTRAVIOLET DEGRADATION.
24. ANY CUTS OR PENETRATIONS THROUGH THE EXISTING ROOF SHALL BE REPAIRED AND MADE WATERTIGHT IN A MANNER TO MAINTAIN THE EXISTING ROOF WARRANTY.
25. WHEN THE INSTALLATION IS COMPLETE, IT SHALL BE RUN & ADJUSTED BY THE CONTRACTOR. ANY EXCESSIVE NOISE OR VIBRATION SHALL BE CORRECTED.
26. SUBMIT WRITTEN AIR BALANCE REPORT TO THE ARCHITECT A MINIMUM OF 10 DAYS PRIOR TO THE FINAL INSPECTION. THE AIR BALANCE CONTRACTOR SHALL BE AABC OR NEBB CERTIFIED.
27. THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION OF EQUIPMENT & PROVIDE THE OWNER WITH A COMPLETE SET OF OPERATING INSTRUCTIONS FOR EQUIPMENT INSTALLED UNDER HIS CONTRACT.
28. THE WORK SHALL BE GUARANTEED AGAINST ALL DEFECTIVE MATERIALS & EQUIPMENT FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE. THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS WITHOUT COST TO THE OWNER.

HEAT PUMP INDOOR UNIT (IU) SCHEDULE

MARK	CFM	OA CFM	APPROX. EXT. STATIC PRESSURE (INCHES W.G.)	MIN. MOTOR HP	COOLING CAPACITY		HEATING CAPACITY @ 47°(MBH)	ELECTRIC HEAT		STAGE 1		VOLTS/ PHASE	WEIGHT (LBS)	TRANE MODEL
					SENSIBLE (MBH)	TOTAL (MBH)		KW	STEPS	MCA	MOCP			
2 4 5	1600	200	0.50	3/4	35.1	47.8	43.0	10.8	1	44.0	45	208/3	175	TEM4A0C49M41
3 6	1600	200	0.50	3/4	35.1	47.8	43.0	7.2	1	32.0	35	208/3	175	TEM4A0C49M41

NOTES:
1. PROVIDE STAINLESS STEEL DRAIN PAN WITH FLOAT SWITCH; ROUTE 3/4" CONDENSATE TO SERVICE SINK AND SPILL
2. COOLING RATINGS FOR 95°F AMBIENT; 67°F WB & 80°F DB E.A.T. HEATING RATINGS FOR 70°F E.A.T.
3. FURNISH UNITS WITH WALL-MOUNTED 7-DAY PROGRAMMABLE THERMOSTAT (INCLUDE HUMIDITY SENSOR FOR 3 & 6)
4. FURNISH UNITS WITH SINGLE POINT POWER CONNECTION FOR FAN MOTOR & STAGE 1 OF ELECTRIC AUX. HEAT
5. PROVIDE MOTORIZED OA DAMPER (120/1); DAMPER SHALL CLOSE DURING "UNOCCUPIED" HOURS
6. PROVIDE RELAY TO USE ELECTRIC AUX. HEAT FOR REHEAT DURING DE-HUMIDIFICATION MODE (UNITS 3 & 6)

HEAT PUMP OUTDOOR UNIT (OU) SCHEDULE

MARK	MCA	MOCP	VOLTS/PHASE	SEER/HSPF	WEIGHT (LBS)	TRANE MODEL
2 - 6	18.0	30.0	208/3	14.5/8.5	220	4TWA4048A3

NOTES:
1. VERIFY VOLTAGE BEFORE ORDERING EQUIPMENT
2. FURNISH & INSTALL UNITS WITH LOW AMBIENT COOLING TO 0°F, FILTER DRIER, & SERVICE VALVE PANEL COVER

EXHAUST FAN (EF) SCHEDULE

MARK	CFM	EXT. STATIC (INCHES W.G.)	HP (WATTS)	RPM	MAX SONES	WEIGHT (LBS)	VOLTS/ PHASE	TYPE	GREENHECK MODEL
1	550	0.35	1/8	860	3.1	60	115/1	IN-LINE	SQ-120
2	350	0.45	1/15	1403	6.4	35	115/1	ROOF	CUE-090-D

NOTES:
1. VERIFY VOLTAGE BEFORE ORDERING EQUIPMENT
2. EXHAUST FANS SHALL BE FURNISHED WITH BACKDRAFT DAMPER, SPEED CONTROLLER, & DISCONNECT
3. INTERLOCK EF-1 TO RUN WHEN IU-2 IS IN "OCCUPIED" MODE.
4. INTERLOCK EF-2 TO RUN WITH DISHWASHER

ELECTRIC UNIT HEATER (EUH) SCHEDULE

MARK	CFM	KW	VOLTS/ PHASE	MARKEL MODEL	WEIGHT (LBS)
1	400	2.5	208/1	5100 SERIES	25
2	700	7.5	208/3	5100 SERIES	55

NOTES:
(1) PROVIDE DISCONNECT, WALL-MOUNTING KIT, & WALL-MOUNTED THERMOSTAT CONTROL

ELECTRIC WALL HEATER (EWH) SCHEDULE

MARK	KW	VOLTS/ PHASE	MARKEL MODEL
1	1.5	208/1	3320 SERIES
2	1.5	208/1	3320 SERIES

NOTES:
(1) PROVIDE DISCONNECT, WALL-MOUNTING KIT, & WALL-MOUNTED THERMOSTAT CONTROL

GRILLES AND CEILING OUTLET SPECIFICATIONS

GRILLES AND CEILING OUTLETS SHALL BE PRICE, OR EQUAL, STEEL CONSTRUCTION WITH ELECTRO-DEPOSITION PAINTED FINISH, SIZE SHOWN ON THE DRAWINGS AND SCHEDULED AS FOLLOWS.

CDS CEILING DIFFUSER, PRICE MODEL SMD-1 SQUARE NECK, LOUVERED FACE DIFFUSER, SURFACE MOUNTED TYPE, 4-WAY BLOW WITH RECTANGULAR OPPOSED BLADE DAMPER. FURNISH WITH SQUARE-TO-ROUND ADAPTER WHERE ROUND DUCT IS INDICATED ON DRAWINGS AND PLASTER FRAME.

CD CEILING DIFFUSER, PRICE MODEL SMD-3P SQUARE NECK, LOUVERED FACE DIFFUSER, LAY-IN TYPE, 4-WAY BLOW WITH RECTANGULAR OPPOSED BLADE DAMPER. FURNISH WITH SQUARE-TO-ROUND ADAPTER WHERE ROUND DUCT IS INDICATED ON DRAWINGS.

CRS CEILING RETURN, PRICE MODEL 80D-F EGG CRATE RETURN GRILLE, SURFACE MOUNTED TYPE, 1/2" CUBES WITH OPPOSED BLADE DAMPER. FURNISH WITH SQUARE-TO-ROUND ADAPTER WHERE ROUND DUCT IS INDICATED ON DRAWINGS.

CR CEILING RETURN, PRICE MODEL 80D-TB EGG CRATE RETURN GRILLE, LAY-IN TYPE, 1/2" CUBES WITH OPPOSED BLADE DAMPER. FURNISH WITH SQUARE-TO-ROUND ADAPTER WHERE ROUND DUCT IS INDICATED ON DRAWINGS.

CES CEILING EXHAUST, PRICE MODEL 80D-F EGG CRATE EXHAUST GRILLE, SURFACE MOUNTED TYPE, 1/2" CUBES WITH OPPOSED BLADE DAMPER. FURNISH WITH SQUARE-TO-ROUND ADAPTER WHERE ROUND DUCT IS INDICATED ON DRAWINGS.

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BEDINGER CONSULTING ENGINEERS
5641 MERCHANTS CENTER BLVD; STE A104
KNOXVILLE, TENNESSEE 37912
T 865.637.8339 • F 865.523.8186
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ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

STEVEN DANIEL ZIMMERMAN
REGISTERED ARCHITECT
04/01/24
UNITED STATES OF AMERICA
TENNESSEE

PRE-DESIGN / PROPOSAL
HERITAGE PARK ADDITION
115 DURHAM DR, MAYNARDVILLE, TN 37807

NO.	DESCRIPTION	DATE

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SHEET DESCRIPTION
SCHEDULES & SPECIFICATIONS

M001

PROJECT DATE	PROJECT NUMBER
04/01/24	23071

C.O.K. PLANS REVIEW / ELECTRONIC PERMIT STAMP

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HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST					SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)				MUA CFM	AC CFM		
									WIDTH	LENGTH	DIA.	CFM	S.P.			
1	HD-1 (#5)	XBEW-100-S	100	54	24	430 SS WHERE EXPOSED	HEAVY	1792	10	17		1792	0.394	1583		542	LEFT
2	HD-1 (#5)	XBEW-100-S	100	54	24	430 SS WHERE EXPOSED	HEAVY	1792	10	17		1792	0.394	1428		313	RIGHT

HOOD INFORMATION

HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS				UTILITY CABINET(S)				
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)		LOCATION	FIRE SYSTEM		CONTROLS	
							L	H		TYPE	SIZE	MODEL	INTERFACE
1	HD-1 (#5)	INCANDESCENT (GLOBE) 100W A19 (BULBS NOT INCL.)	5	48.51	BAFFLE STAINLESS STEEL	5	16	20	LEFT	ANSUL R102	6	XKC	TOUCHSCREEN
						1	20						
2	HD-1 (#5)	INCANDESCENT (GLOBE) 100W A19 (BULBS NOT INCL.)	5	48.51	BAFFLE STAINLESS STEEL	5	16	20					
						1	20						

SUPPLY PLENUM INFORMATION

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	TOTAL S.P.	COLLARS							
				L	W	H			SUPPLIED	QTY			TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	HD-1 (#5)	FRONT	ASP	112	18	4	NO	YES	NO		1583	0.01	MUA	FACTORY	2	16	30		792	238
2	HD-1 (#5)	FRONT	ASP	101	18	4	NO	YES	NO		1428	0.01	MUA	FACTORY	2	16	30		714	214

HOOD OPTIONS

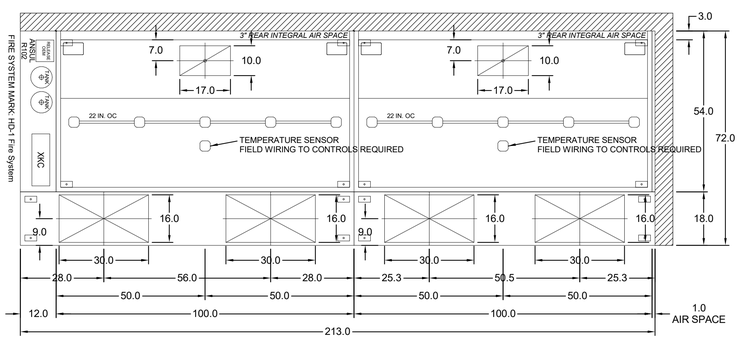
- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
- BACK INTEGRAL AIR SPACE - 3 IN WIDE
- RIGHT NON-INTEGRAL AIR SPACE - 1 IN THICK - ZERO CLEARANCE
- 18 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED
- CONTINUOUS CAPTURE
- FACTORY MOUNTED EXHAUST COLLAR(S)
- EXHAUST AIR BALANCING BAFFLE(S) - (EABB)
- BACKSPLASH 80.00 IN HIGH 213.00 IN LONG
- RIGHT SIDESPLASH 80.00 IN HIGH 54.00 IN LONG
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

CONTROL INFORMATION

MARK	ELECTRICAL CONTROL PACKAGE		USER INTERFACE		FANS CONTROLLED										
	MODEL	LOCATION	TYPE	LOCATION	FAN #	TYPE	FAN	FAN MARK	ZONE	CFM	MOTOR HP	MOTOR VOLT	CYCLE	MOTOR PHASE	MOTOR STARTER IN PANEL	VFD IN PANEL
HD-1 CONTROLS	XKC-DCV-S-11-2-1-0	RIGHT CABINET ON HD-1 (#5)	FULL COLOR TOUCHSCREEN	CABINET – RIGHT CABINET ON HD-1 (#5)	1	EXHAUST	E1	KEF-1 (#5)	1	3440	2	208	53	3	NO	YES
					2	SUPPLY	S1	DMUA-1	1	4000	5	208	60	3	NO	NO

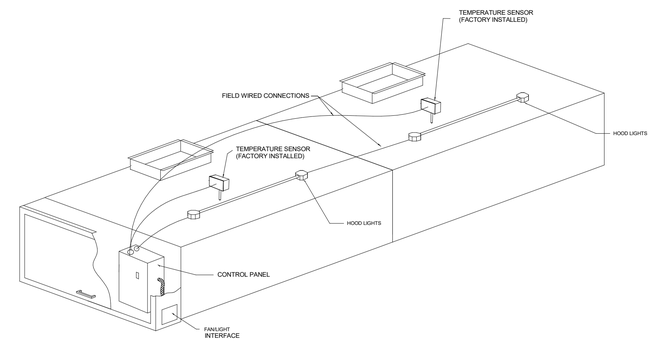
CONTROL FEATURES

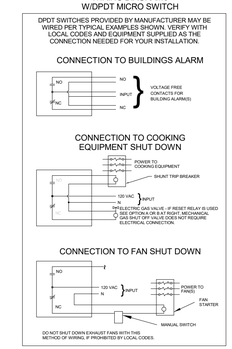
- HOOD LIGHT CONTROL
- TEMP SENSORS (FACTORY INSTALLED) - QTY. 2
- DRY FIRE CONTACTS - QTY. 2
- LIGHTS OFF DURING FIRE
- EXHAUST MAX DURING FIRE
- SUPPLY OFF DURING FIRE

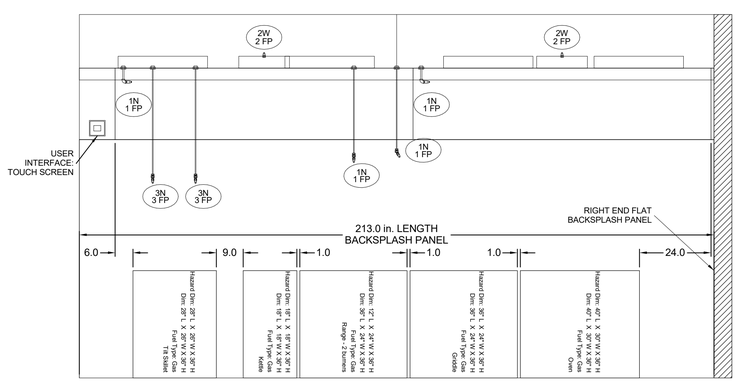


MARK: HD-1 (#5) - SECTION 1
PLAN VIEW

MARK: HD-1 (#5) - SECTION 2
PLAN VIEW

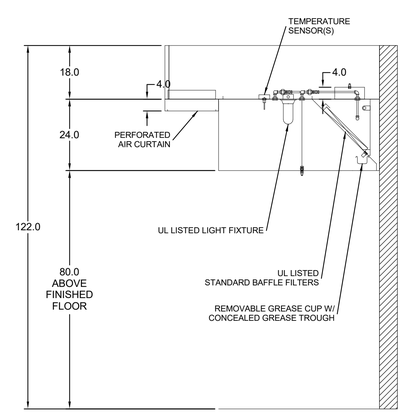






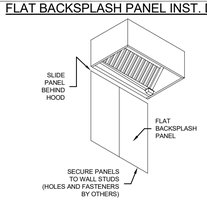
MARK: HD-1 (#5) - SECTION 1
ELEVATION VIEW

MARK: HD-1 (#5) - SECTION 2
ELEVATION VIEW



MARK: HD-1 (#5) (LAST HOOD IN ROW)
SECTION VIEW

FLAT BACKSPLASH PANEL INST. DETAIL

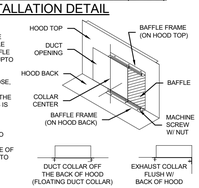


EXHAUST AIR BALANCING BAFFLE (EABB) INSTALLATION DETAIL

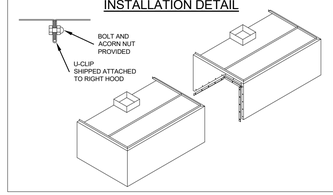
NOTES:
THE EABB IS DESIGNED TO BALANCE THE AIR VOLUME BETWEEN MULTIPLE HOODS ON THE SAME FAN. THE BAFFLE HAS THE CAPACITY TO CLOSE OFF UPTO 50% OF THE EXHAUST COLLAR.

IF DUCT COLLARS ARE SHIPPED LOOSE, THE EABB WILL BE SIZED TO THE EXHAUST COLLAR(S) SPECIFIED ON THE HOOD EQUIPMENT SCHEDULE. EABB IS TO BE INSTALLED AFTER THE DUCT COLLAR IS WELDED TO THE HOOD.

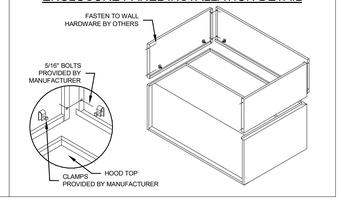
ASSEMBLE BOTH BAFFLE FRAMES TO THE BAFFLE IN THE OPEN POSITION. LINE UP EDGE OF BAFFLE WITH EDGE OF OPENING, PLUG WELD THE FRAMES TO THE HOOD TOP OR BACK.



CONTINUOUS CAPTURE PLENUM INSTALLATION DETAIL



ENCLOSURE PANEL INSTALLATION DETAIL



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SHEET DESCRIPTION
KITCHEN HOOD EQUIPMENT

M002

PROJECT DATE	PROJECT NUMBER
04/01/24	23071

BCE
BEDINGER CONSULTING ENGINEERS
5641 MERCHANTS CENTER BLVD.; STE A104
KNOXVILLE, TENNESSEE 37912
T 865.637.8339 • F 865.523.8186
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EQUIPMENT SCHEDULE

Tempered Make-Up Air Unit

Mark: DMUA-1

Qty	Accurex Model	Volume	External SP	Total SP	MCA	MOP	Weight	SCCR
1	XDG-112-H20-10	4,000 CFM	0.76 in. wg	1.864 in. wg	64.9	80	1,696 lb	5kA

Motor Information

Size	V/C/P	Enclosure	Motor with Shaft Gounding	Motor RPM	Operating Power
5 hp	208/60/3	ODP	No	1725	2.74 hp

Heating

Type	Gas Type	Temperature			Energy			Connection Gas (IN)	Building Gas Pressure	Control Access	Gas Pressure	
		Winter DB	Max Δ	Max LAT	Input	Output	Efficiency				Min	Max
Direct Gas	Natural	15.0 F	60.0 F	75.0 F	281.7 MBH	259.2 MBH	92%	3/4"	1/2 PSI	Right Hand	9 in. wg	0.5 PSI

Cooling

Cooling Type	Coil Model	Rows Deep	Fins Per Inch	Face Velocity	Total Energy	Sensible Energy	Entering Air (F)		Leaving Air (F)	
							Dry	Wet	Dry	Wet
Packaged DX	DX38S02Q10-32x52	2	10	346 ft/min	137.9 MBH	85.9 MBH	95.0 F	78.0 F	75.5 F	69.7 F

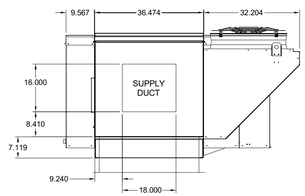
Coil SP	Refrigerant	Suction Temp	Liquid Temp	Super Heat	Code 18/19	Suction Conn Qty / Size	Liquid Conn Qty / Size
NA	R-410a	45.5 F	110 F	8 F	0	NA	NA

Outlet Sound Power By Octave Band								LwA	dBA	Sones
62.5	125	250	500	1000	2000	4000	8000			
94	85.5	79.5	79.8	78.7	75.8	74.2	67.2	83.8	72.8	22.3

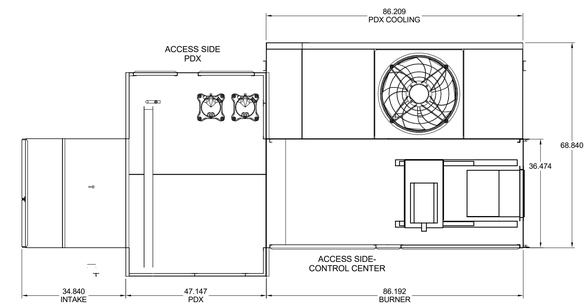
- *LwA – A σταθμισμένο συνολικό ηχητικό λαμπάκι βασισμένο στο ANSI S1.4*
- *dBA – A σταθμισμένο συνολικό ηχητικό λαμπάκι βασισμένο στο 11.6 dB εξασθενημένο πάνω από ένα βάθος 5.0 ft.*
- *Sones Χρησιμοποιώντας (NX) βασισμένο στο ένα αδιάφορο εξασθενημένο οφ 11.5 dB πάνω από ένα βάθος 5.0 ft.*

OPTIONS AND ACCESSORIES

Air Flow Arrangement: Variable Volume
Weatherhood: Aluminum Mesh, 16x20x2 - (2), 20x20x2 - (2)
Damper: Inlet
Outdoor Air Intake Position: End
Discharge Position: End
Coating: Galvanized
Cooling Coil Coating - None
Insulation: Double Wall - Tempering On
Supply Fan Control: VFD
VFD Control: External 0-10 VDC
Access Side: Right-Hand
Unit Weight: 1696 lb
Control Center
Freeze Protection
Heat Inlet Air Sensor
Cool Inlet Air Sensor
Unit Controls: Terminal Strip
Temperature Control: Discharge
Direct Gas Options/Accessories
Approvals: ETL
FM Compliant



END VIEW



PLAN VIEW

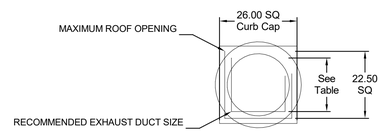
Direct Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION						MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	KEF-1 (#5)	ACCUREX XCUE-160-A	3,440	1.081	1,520	1.32	115	2	208/60/3	OP	1725	1	7.5

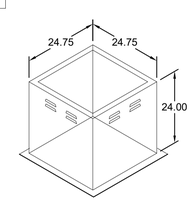
*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

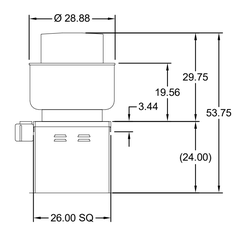
KEF-1 (#5) : SELECTED OPTIONS AND ACCESSORIES

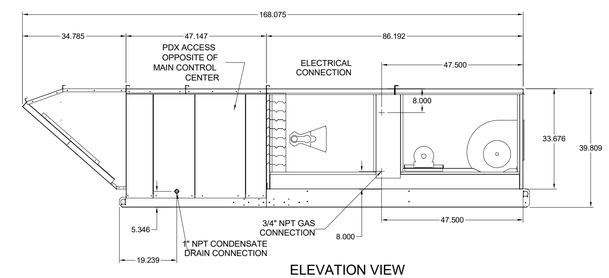
Motor VFD Rated without Shaft Grounding Protection
One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP),
0.080" aluminum (sizes 300-480)
Larger Curb Cap Size - 26 Square
UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
Switch, NEMA-3R, Toggle,
Hinge, Factory Installed
Grease Trap (PN 475538)
Conduit Chase Qty 1



DUCT TYPE	SIZE
STANDARD	18 SQ
FIRE-WRAPPED	12 SQ







ELEVATION VIEW

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04/01/24
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PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION

KITCHEN HOOD EQUIPMENT

M003

PROJECT DATE	PROJECT NUMBER
04/01/24	23071

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5641 MERCHANTS CENTER BLVD; STE A104
KNOXVILLE, TENNESSEE 37912
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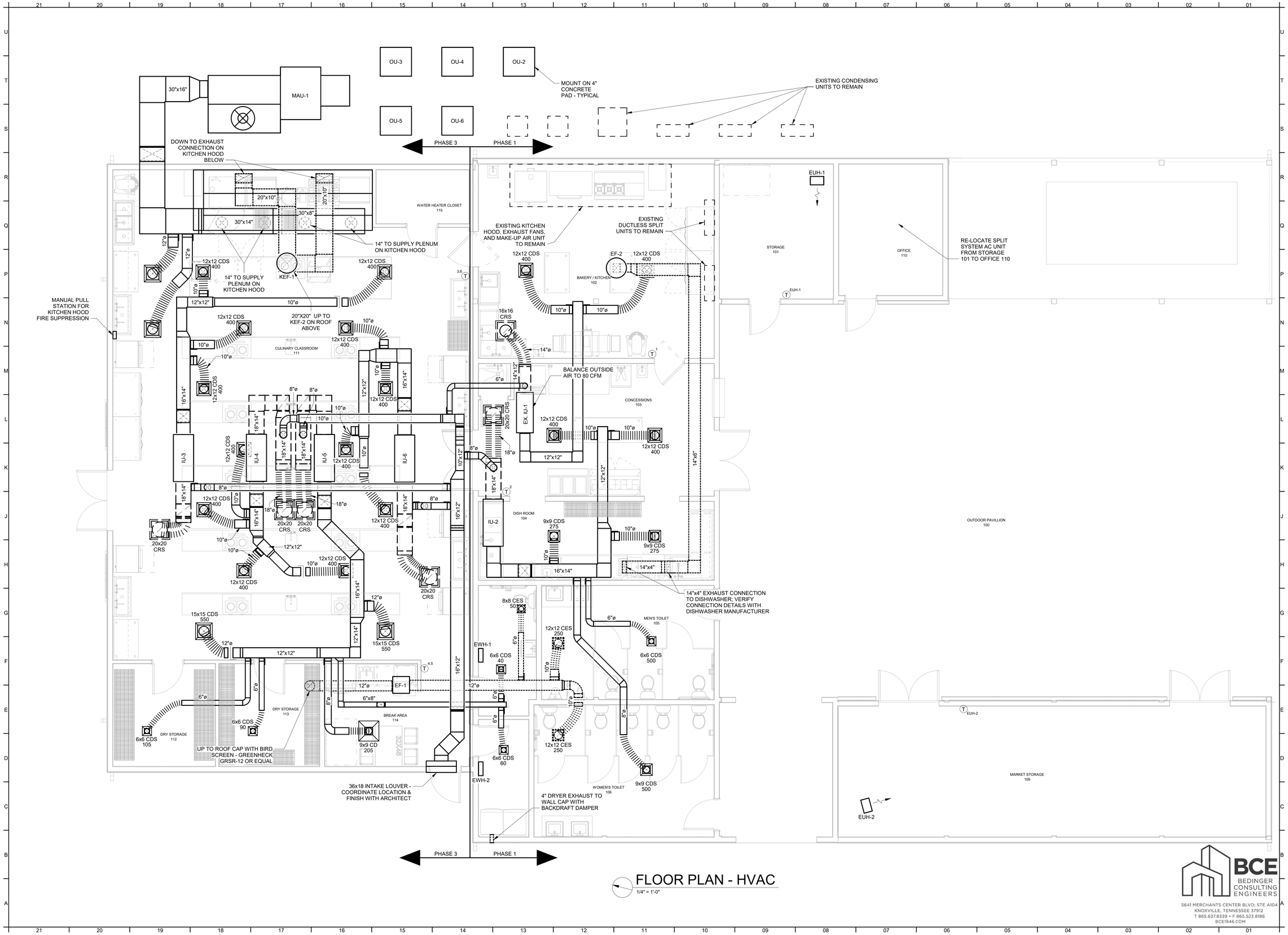

FLOOR PLAN - HVAC

1/4" = 1'-0"

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ph 865.637.8540 / fx 865.544.3840
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HERITAGE PARK ADDITION

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SHEET DESCRIPTION

FLOOR PLAN - HVAC

M101

PROJECT DATE	PROJECT NUMBER
04/01/24	23071

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5641 MERCHANTS CENTER BLVD; STE A104
KNOXVILLE, TENNESSEE 37912
T 865.637.8339 • F 865.523.8186
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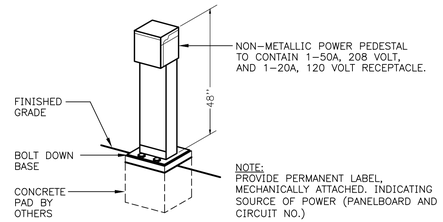
SITE LIGHTING FIXTURE SCHEDULE

ILLUMINATION: DESIGNATION	WATTS	DELIVERED LUMENS	COLOR TEMPERATURE	POLE DESCRIPTION: MATERIAL, SHAPE, ALUMINUM	STEEL	ROUND	SQUARE	HEIGHT ABOVE FINISHED GRADE	DESCRIPTION: SHIELDING, TYPE MATERIALS, FINISH, MOUNTING	MANUFACTURER'S PRODUCT ITEM: COMPANY	POLE CATALOG NO.	LUMINAIRE CATALOG NO.	REMARKS
SA	102	13763	4000		•		•	33 FT	ARM MOUNTED, SINGLE LUMINAIRE ON 30FT. POLE	LITHONIA	SSS 30 5C DM19AS DDBXD	DSX1 LED P3 40K 70CRI T3M MVOLT SPA DDBXD	–
SB	102 PER HEAD	13763 PER HEAD	4000		•		•	33 FT	ARM MOUNTED, DOUBLE LUMINAIRE ON 30FT. POLE, TWO FIXTURES AT 180 DEGREES.	LITHONIA	SSS 30 5C DM28AS DDBXD	DSX1 LED P3 40K 70CRI T3M MVOLT SPA DDBXD	–
SC	33	2421	4000						IN-GRADE, WALL WASH, ADJUSTABLE, DOUBLE LENS, SLIP RESISTANT	HYDREL		M8420C SS LED P4 40K MVOLT WWD FLCSR 34S STS	–
SD	54	4828	4000						IN-GRADE, UPLIGHTING, NARROW SPOT	HYDREL		M9820 A LED WHT41K MVOLT NSP FLC 34B DNA	–



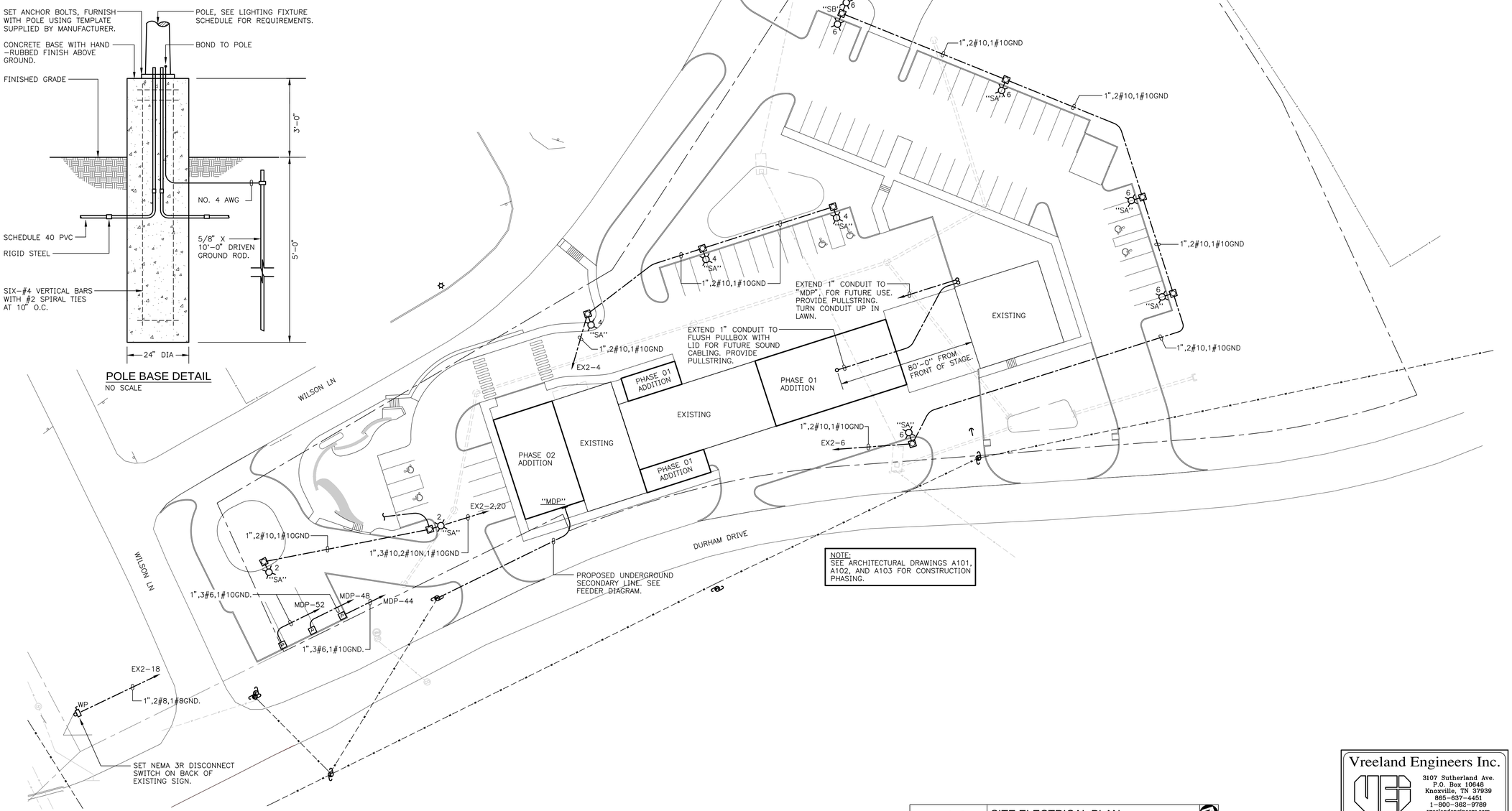
PEDESTAL MOUNTING DETAIL

N.T.S. DRAWING SYMBOL: P

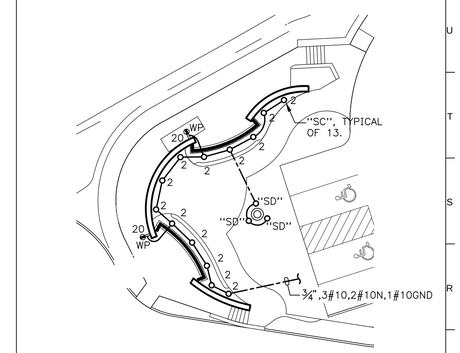
NOTE:
VERIFY EXACT LOCATIONS ON SITE WITH ARCHITECT/OWNER.

POLE BASE DETAIL

NO SCALE



NOTE:
SEE ARCHITECTURAL DRAWINGS A101, A102, AND A103 FOR CONSTRUCTION PHASING.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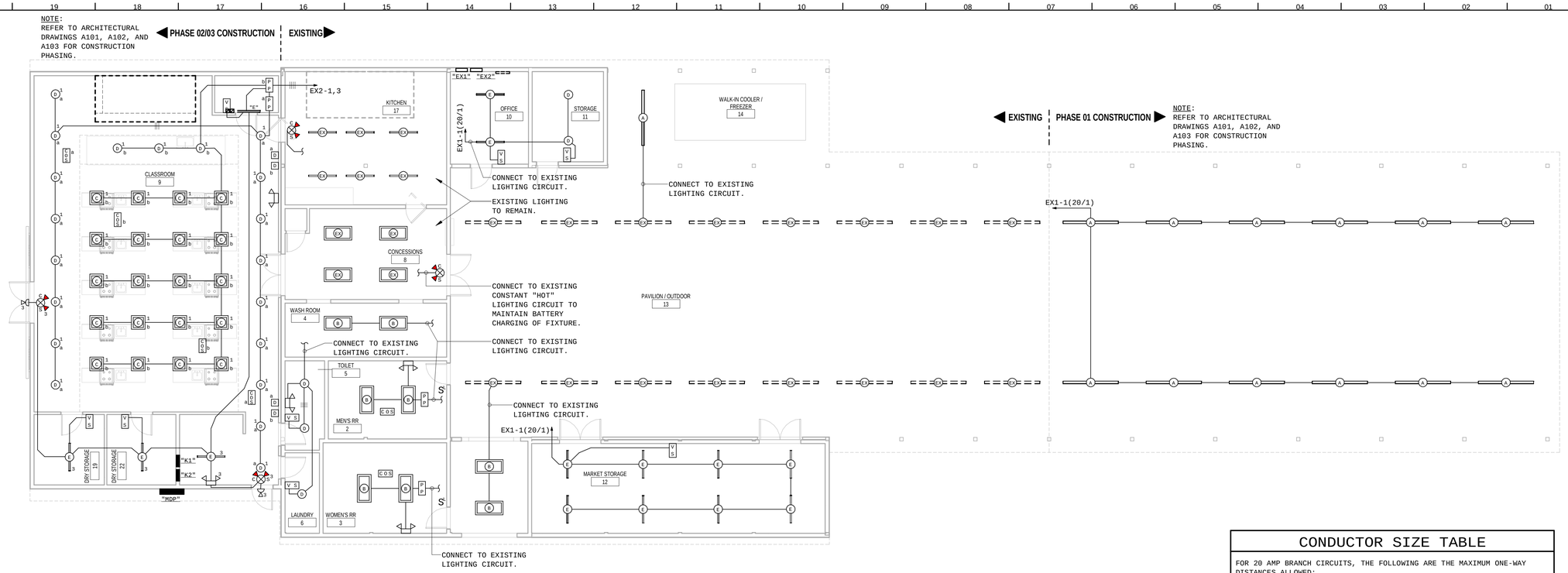


1 FLOOR PLAN - LIGHTING
1/8" = 1'-0"

VOLTAGE DROP CALCULATION NOTES:

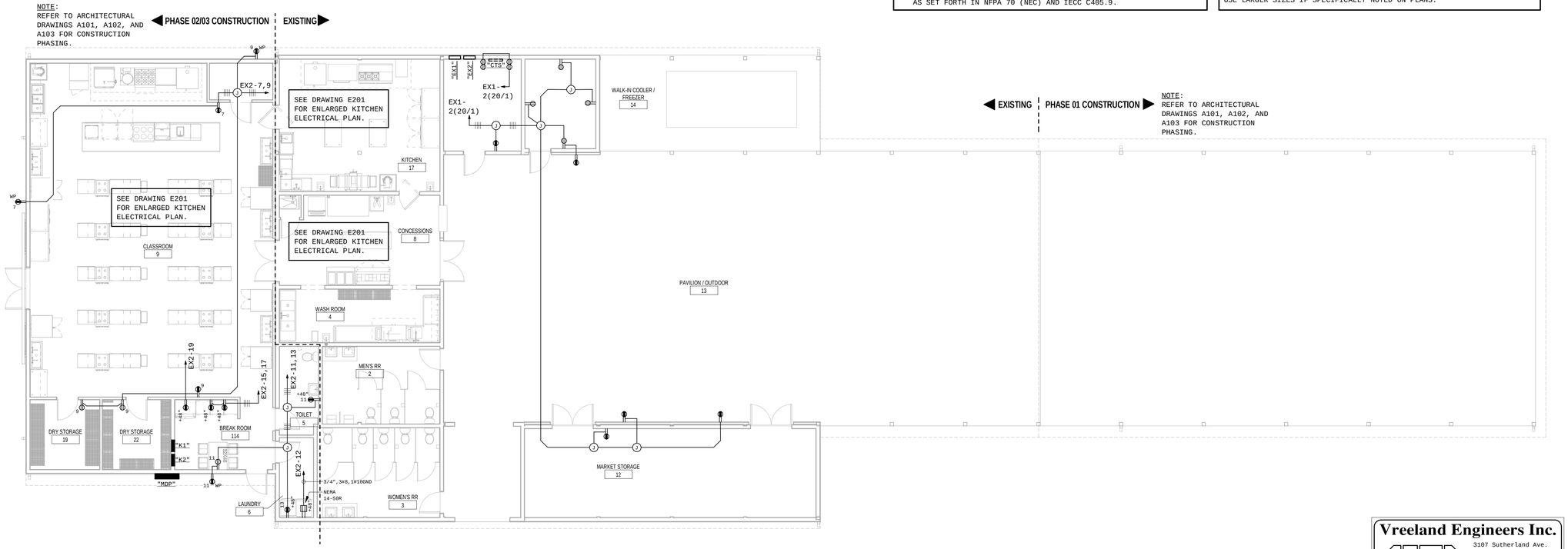
1. REFER TO CONDUCTOR SIZE TABLE FOR WIRE SIZING REQUIREMENTS FOR 20 AMPERE BRANCH CIRCUITS.
2. FOR ALL OTHER FEEDER AND BRANCH CIRCUIT WIRING SHOWN ON DRAWINGS, WIRE SIZING HAS BEEN SPECIFIED TO MEET VOLTAGE DROP REQUIREMENTS AS SET FORTH IN NFPA 70 (NEC) AND IECC C405.9.

CONDUCTOR SIZE TABLE

FOR 20 AMP BRANCH CIRCUITS, THE FOLLOWING ARE THE MAXIMUM ONE-WAY DISTANCES ALLOWED:

CONDUCTOR SIZE	120V	208V/10	208V/30	277V	480V/30
NO. 12	80'	140'	225'	180'	550'
NO. 10	125'	215'	425'	225'	-
NO. 8	195'	340'	665'	435'	-

TABLE IS BASED ON 3% VOLTAGE DROP ON 12.0 F.L.A., 0.85 POWER FACTOR. USE LARGER SIZES IF SPECIFICALLY NOTED ON PLANS.



2 FLOOR PLAN - POWER
1/8" = 1'-0"

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3107 Sutherland Ave.
P.O. Box 10648
Knoxville, TN. 37939
PH: (865)637-4451
1-800-362-9789
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ph 865.637.8540 / fx 865.544.3840
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HAROLD B. DAMRON — REGISTERED ENGINEER — AGRICULTURE — 3-29-24 — COMMISSION NO. 022989 — STATE OF TENNESSEE

PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

NO.	DESCRIPTION	DATE

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SHEET DESCRIPTION

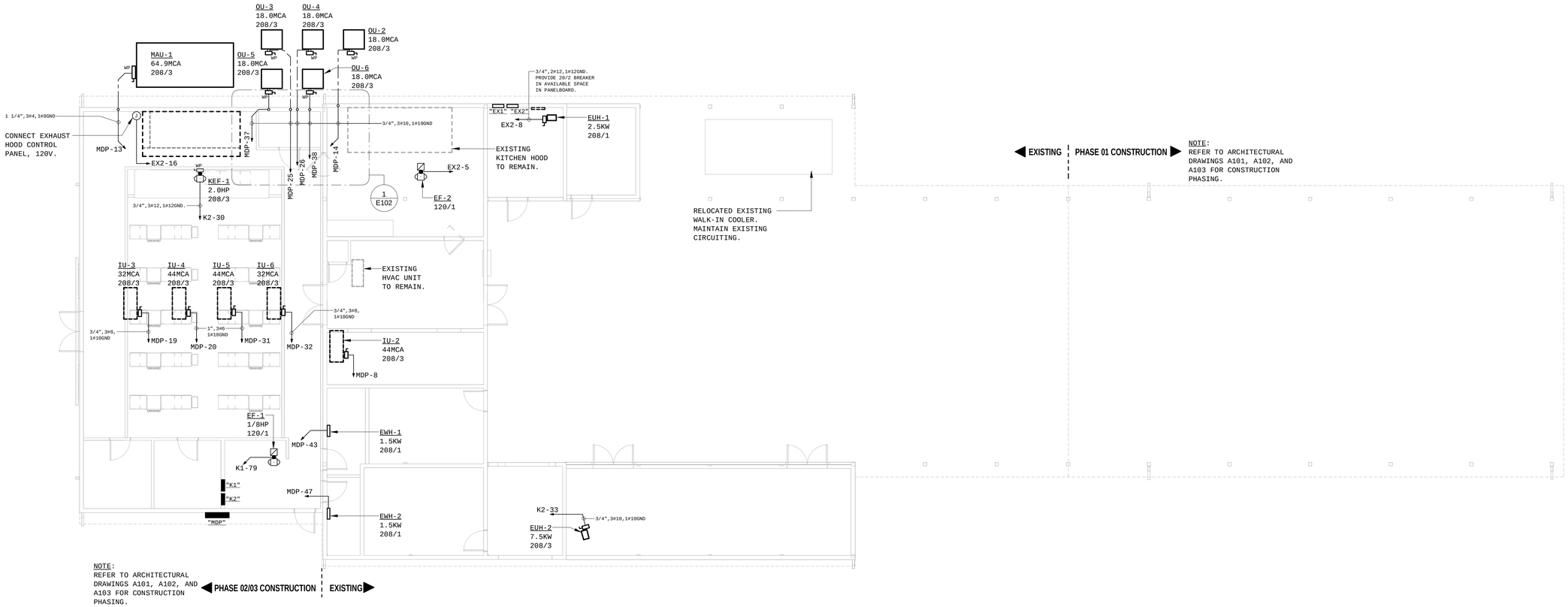
FLOOR PLAN - LIGHTING AND POWER

E101

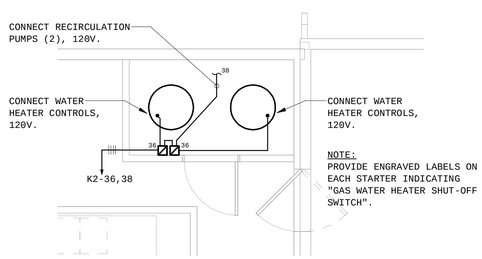
PROJECT DATE	PROJECT NUMBER
03/29/24	23071

C.O.K. PLANS REVIEW / ELECTRONIC PERMIT STAMP

3/29/2024 2:08:07 PM



2 FLOOR PLAN - HVAC WIRING
1/8" = 1'-0"



1 ENLARGED FLOOR PLAN - WATER HEATER WIRING
1/4" = 1'-0"

VOLTAGE DROP CALCULATION NOTES:

1. REFER TO CONDUCTOR SIZE TABLE FOR WIRE SIZING REQUIREMENTS FOR 20 AMPERE BRANCH CIRCUITS.
2. FOR ALL OTHER FEEDER AND BRANCH CIRCUIT WIRING SHOWN ON DRAWINGS, WIRE SIZING HAS BEEN SPECIFIED TO MEET VOLTAGE DROP REQUIREMENTS AS SET FORTH IN NFPA 70 (NEC) AND IECC C405.9.

CONDUCTOR SIZE TABLE

FOR 20 AMP BRANCH CIRCUITS, THE FOLLOWING ARE THE MAXIMUM ONE-WAY DISTANCES ALLOWED:

CONDUCTOR SIZE	120V	208V/1Ø	208V/3Ø	277V	480V/3Ø
NO. 12	80'	140'	225'	180'	550'
NO. 10	125'	215'	425'	225'	-
NO. 8	195'	340'	665'	435'	-

TABLE IS BASED ON 3% VOLTAGE DROP ON 12.0 F.L.A., 0.85 POWER FACTOR. USE LARGER SIZES IF SPECIFICALLY NOTED ON PLANS.

Vreeland Engineers Inc.
3107 Sutherland Ave.
P.O. Box 10648
Knoxville, TN. 37939
PH: (865)637-4451
1-800-362-9789
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ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

HAROLD B. DAMRON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 022989
STATE OF TENNESSEE
3-29-24

PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

115 DURHAM DR, MAYNARDVILLE, TN 37807

NO.	DESCRIPTION	DATE

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SHEET DESCRIPTION

FLOOR PLAN - HVAC WIRING

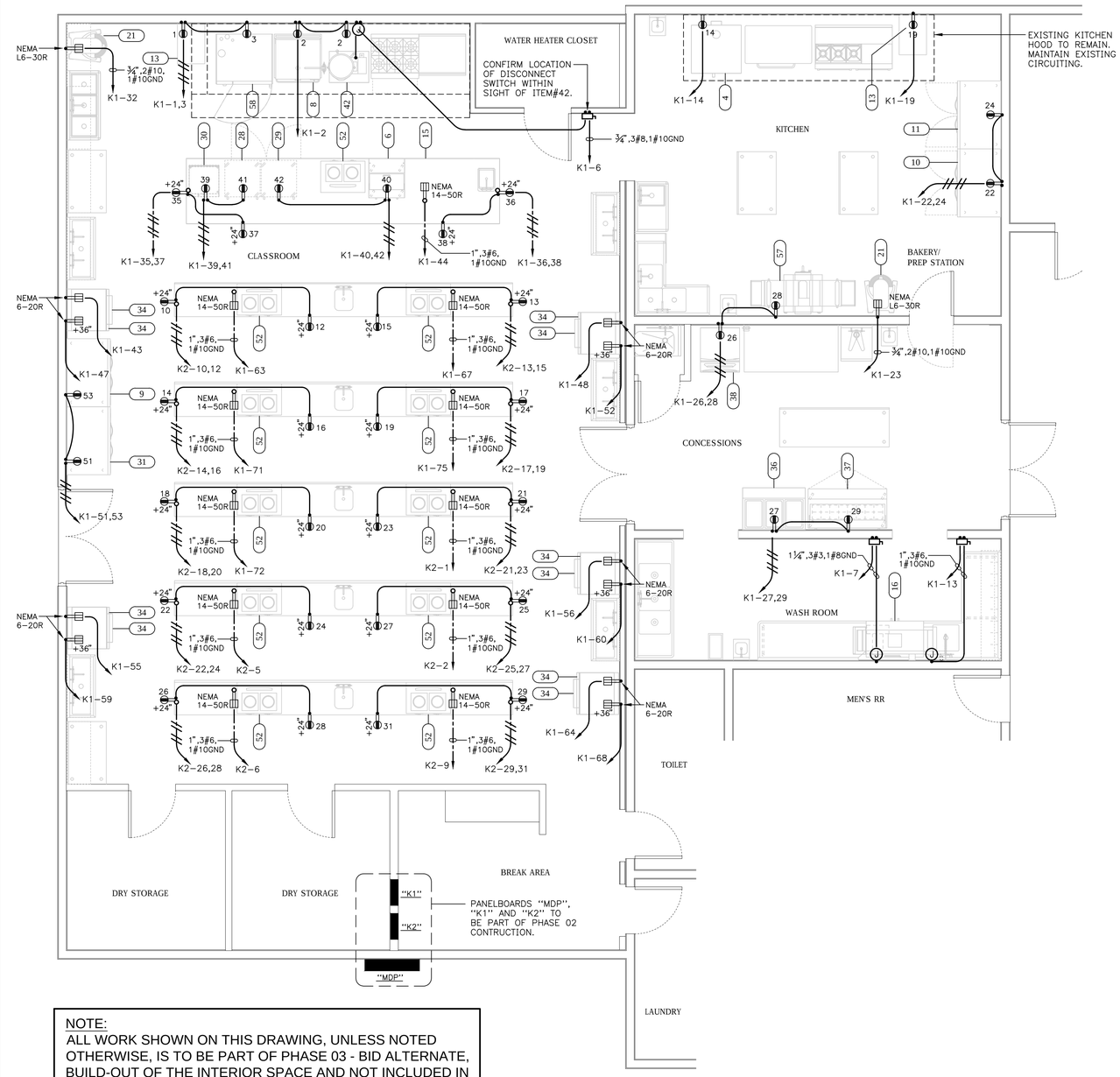
E102

PROJECT DATE	PROJECT NUMBER
03/29/24	23071

C.O.K. PLANS REVIEW / ELECTRONIC PERMIT STAMP

3/29/2024 2:08:08 PM

KITCHEN EQUIPMENT SCHEDULE										
ItemNo	Qty	Category	Equip Remarks	Voltage	Cycle	Phase	Amps	NEMA	Height	Electrical Remarks
4	1	Convection Oven, Gas		115	60	1	6.0	5-15P	+42"	Top Oven
	1			115	60	1	6.0	5-15P	+24"	Bottom Oven
5	1	Exhaust Hood		120	60	1	15.0	J-BOX	TOH	
5.1	1	Exhaust Fan	Remote	208	60	3	9.38	Disc.	Remote	
5.2	1	Tempered Make-Up Air Unit	Remote	208	60	3	64.90	Disc.	Remote	
6	1	Sandwich / Salad Preparation Refrig.		115	60	1	3.5	5-15P	+5"	
7	1	Exhaust Hood	Existing	***	***	***	***	***	***	Existing
8	1	Tilting Skillet Braising Pan, Gas		120	60	1	1.8	5-15P	+42"	
9	1	Reach-In Refrigerator		115	60	1	3.8	5-15P	+80"	
10	1	Reach-In Refrigerator	Existing	115	60	1	3.8	5-15P	+80"	Existing
11	1	Reach-In Freezer	Existing	115	60	1	10.7	5-15P	+80"	Existing
13	2	Proofer Cabinet, Mobile		120	60	1	15	5-15P	+24"	
15	1	Teaching Station	Custom	115-208	60	1	42	J-BOX	+5"	
16	1	Dishwasher, Conveyor Type		208	60	3	51.9	J-BOX	+66"	
16.1	1	Booster		208	60	3	74.9	J-BOX	+66"	
20.1	1	Exhaust Fan	Remote	208	60	1	3.2	Disc.	Remote	
21	2	Planetary Mixer		220	60	1	12.0	L6-30P	+24"	
28	1	Undercounter Refrigerator		115	60	1	2.3	5-15P	+5"	
29	1	Reach-In Undercounter Freezer		115	60	1	2.5	5-15P	+5"	
30	1	Dishwasher, Undercounter		208	60	1	37.2	14-50P	+5"	
31	1	Reach-In Freezer		115	60	1	10.7	5-15P	+80"	
32	1	Range, 36", 6 Open Burners								
34	10	Convection Oven, Electric	5 Stacks of 2	208	60	1	20.0	6-20P	+42"	Top Oven
				208	60	1	20.0	6-20P	+24"	Bottom Oven
36	1	Hot Food Serving Counter / Table		120	60	1	12	5-15P	+24"	
37	1	Sandwich / Salad Preparation Refrig.		115	60	1	6.5	5-15P	+24"	
38	1	Ice Maker, Cube-Style		115	60	1	11.5	J-BOX	+66"	
42	1	Kettle, Electric, Countertop		208	60	3	33.0	J-BOX	+42"	
44	1	Induction Range, Built-In / Drop-In		208-240	60	1	23.1	14-50P	***	Electrical via Load Center on Item #15
45	5	Student Work Station	Custom							
51	1	Dishwasher, Undercounter		208	60	1	37.2	J-BOX	+24"	Existing
52	11	Induction Range, Built-In / Drop-In		208-240	60	1	23.1	14-50P	+5"	
57	1	Dough Sheeter		220	60	1	7.8	6-15P	+24"	
58	1	Combi Oven, Gas		120	60	1	7.2	6-20P	+42"	



NOTE:
ALL WORK SHOWN ON THIS DRAWING, UNLESS NOTED OTHERWISE, IS TO BE PART OF PHASE 03 - BID ALTERNATE, BUILD-OUT OF THE INTERIOR SPACE AND NOT INCLUDED IN THE BASE BID.

E201 – HERITAGE PARK – ENLARGED KITCHEN PLAN.dwg
A.L.S. 03/29/24 2:21 PM HD23369(HD)

A12 ENLARGED KITCHEN PLAN - ELECTRICAL
1/4" = 1'-0"

Vreeland Engineers Inc.
3107 Sutherland Ave.
P.O. Box 10648
Knoxville, TN 37939
865-637-4451
1-800-362-9789
vreelandengineers.com

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402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

HAROLD E. DAMRON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 022369
STATE OF TENNESSEE
3-29-24

PRE-DESIGN / PROPOSAL
HERITAGE PARK ADDITION
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SHEET DESCRIPTION
ENLARGED KITCHEN PLAN - ELECTRICAL

E201

PROJECT DATE	PROJECT NUMBER
3/29/2024	23071

C.O.K. PLANS REVIEW / ELECTRONIC PERMIT STAMP

ELECTRICAL SPECIFICATIONS

1. SCOPE: FURNISH PLANT, LABOR, MATERIAL, SERVICES, AND EQUIPMENT NECESSARY FOR AND REASONABLY INCIDENTAL TO THE INSTALLATION OF ELECTRICAL FACILITIES SHOWN ON THE DRAWINGS AND CALLED FOR HEREINAFTER.

2. CODES AND PERMITS: SECURE NECESSARY PERMITS, PAY NECESSARY FEES, CONFORM TO ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES.

3. POWER SERVICE: POWER SERVICES SHALL BE TAKEN FROM UTILITY COMPANY POLE MOUNTED TRANSFORMERS AT 120/208–VOLT, 3–PHASE, 4–WIRE, WYE, PROVIDE DISTRIBUTION SYSTEM AS INDICATED ON THE DRAWINGS. PAY ALL ASSOCIATED UTILITY CO. FEES.

4. WIRING METHODS: NEW LINE VOLTAGE POWER WIRING SHALL BE INSTALLED IN METALLIC CONDUIT AS DESCRIBED HEREINAFTER. ALL OVERHEAD WIRING ON THE PROJECT SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT). ALL CONDUCTORS SHALL BE COPPER WITH THHN/THWN INSULATION. PROVIDE COLOR CODING OF CONDUCTORS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE REQUIREMENTS. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG WITH LARGER SIZES WHERE INDICATED ON DRAWINGS OR AS REQUIRED TO MEET VOLTAGE DROP REQUIREMENTS SET FORTH IN NEC. WIRING SHALL BE INSTALLED CONCEALED TO THE MAXIMUM EXTENT POSSIBLE. WHERE EXPOSED WIRING IS REQUIRED DUE TO EXISTING BUILDING STRUCTURE, CONTRACTOR SHALL OBTAIN APPROVAL FROM ARCHITECT OF PROPOSED ROUTING IN ADVANCE OF INSTALLATION. EXPOSED WIRING RUN BY CONTRACTOR WITHOUT PRIOR APPROVAL OF ROUTING BY ARCHITECT SHALL BE SUBJECT TO REMOVAL AND REINSTALLATION BY CONTRACTOR AT CONTRACTOR'S EXPENSE. ALL WIRING SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL ELEMENTS. NO DIAGONAL RUNS WILL BE PERMITTED.

5. WORK AT EXISTING PANELBOARDS: NEW CIRCUITS REQUIRED FOR WORK IN RENOVATION AREA SHALL BE TAKEN FROM EXISTING PANELBOARDS AS NOTED ON DRAWINGS. EXISTING SPACE AND SPARE CIRCUIT BREAKERS ARE AVAILABLE IN EXISTING PANELBOARDS TO SERVE NEW CIRCUITS INDICATED. CONTRACTOR SHALL PROVIDE MODIFICATIONS TO EXISTING PANELBOARD CIRCUIT DIRECTORIES AS REQUIRED TO REFLECT CHANGES MADE AS PART OF THIS RENOVATION PROJECT. ALL CHANGES TO CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN. HANDWRITTEN MODIFICATIONS TO EXISTING CIRCUIT DIRECTORIES SHALL NOT BE PERMITTED.

6. PANELBOARDS: FURNISH AND INSTALL NEW PANELBOARDS WHERE ILLUSTRATED ON DRAWINGS. PANELBOARDS SHALL BE SIMILAR AND EQUAL TO SQUARE D "NQ" SERIES WITH COPPER BUSING AND MAINS RATING OF 120/208–VOLTS, 3–PHASE, 4–WIRE, WYE AS INDICATED ON DRAWINGS. PANELBOARDS SHALL BE UTILIZE BOLT–ON TYPE CIRCUIT BREAKERS. EQUAL EQUIPMENT BY SIEMENS, GENERAL ELECTRIC, OR EATON WILL BE APPROVED. PROVIDE A TYPEWRITTEN CIRCUIT DIRECTORY IN EACH PANELBOARD INDICATING DETAILED INFORMATION INCLUDING LOADS SERVED, LOAD LOCATION, ETC.

7. SAFETY SWITCHES: FURNISH AND INSTALL HEAVY–DUTY FUSIBLE SAFETY SWITCHES WHERE INDICATED ON DRAWINGS FOR HVAC EQUIPMENT, AND OTHERWISE AS REQUIRED BY CODE. SAFETY SWITCHES SHALL BE HORSEPOWER RATED, QUICK–MAKE, QUICK–BREAK, WITH ARC SHIELDS WITH ENCLOSED CONSTRUCTION. SAFETY SWITCHES LOCATED OUTSIDE SHALL BE HOUSED IN NEMA 3R ENCLOSURES. INSIDE THE BUILDING, UTILIZE NEMA 1 ENCLOSURES FOR SAFETY SWITCHES. PROVIDE FUSING IN EACH SAFETY SWITCH IN ACCORDANCE WITH UNIT NAMEPLATE DATA. COORDINATE MOUNTING LOCATIONS OF ALL SAFETY SWITCHES WITH INSTALLER OF EQUIPMENT (I.E., HVAC) PRIOR TO COMMENCING ROUGH–IN.

8. DRY–TYPE TRANSFORMERS: FURNISH AND INSTALL DRY–TYPE TRANSFORMERS AS INDICATED ON DRAWINGS. TRANSFORMERS SHALL BE RATED 120/240–VOLT, SINGLE–PHASE, 3–WIRE SECONDARY. EACH DRY–TYPE TRANSFORMER SHALL BE RATED 150 DEGREE CELSIUS TEMP. RISE AND HAVE ALUMINUM WINDINGS.

9. LIGHTING FIXTURES: PROVIDE NEW LIGHTING FIXTURES WHERE INDICATED ON DRAWINGS. NEW LIGHTING FIXTURES SHALL BE LED. SEE LIGHTING FIXTURE SCHEDULE FOR REQUIREMENTS.

10. WIRING DEVICES: FURNISH AND INSTALL NEW WIRING DEVICES (I.E., WALL SWITCHES, RECEPTACLES, ETC., WHERE INDICATED ON DRAWINGS. DEVICE AND COVERPLATE TYPE/COLOR SHALL MATCH EXISTING DEVICES IN THE BUILDING. NEW DEVICES SHALL BE SPECIFICATION GRADE TYPE WITH MINIMUM RATING OF 20–AMPERES. THE USE OF 15–AMPERE RATED DEVICES SHALL NOT BE PERMISSIBLE.

11. EXIT SIGNS AND EMERGENCY LIGHTING: FURNISH AND INSTALL EXIT SIGNS WITH BATTERY BACKUP. LED ILLUMINATION SHALL BE UTILIZED. COLOR OF EXIT SIGNS SHALL BE WHITE FINISH WITH RED LETTERS. EXIT SIGNS SHALL BE SIMILAR AND EQUAL TO LITHONIA NO. US1REL.

    WHERE TWIN–HEAD UNITS ARE ILLUSTRATED, PROVIDE NICAD BATTERY PACK WITH TWO 1–1/2 WATT LAMP MODULES. TWIN–HEAD UNITS SHALL BE SIMILAR AND EQUAL TO LITHONIA ELM2L.

    PROVIDE SEPARATE UNSWITCHED 120–VOLT LINE TO ALL BATTERY UNITS.

12. ELECTRCAL DEMOLITION: DUE TO RENOVATION WORK, ELECTRICAL DEMOLITION MAY BE REQUIRED. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN WORK SHOWN ON ELECTRICAL PLANS AND ACTUAL CONDITIONS ENCOUNTERED IN FIELD.

13. GROUNDING: FURNISH AND INSTALL GROUNDING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL NEW WIRING RUNS. THESE ARE GENERALLY NOT ILLUSTRATED ON DRAWINGS BUT SHALL BE REQUIRED. GROUND EQUIPMENT AND LIGHTING FIXTURES IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE. PROVIDE GROUNDING OF DRY–TYPE TRANSFORMER AS INDICATED ON DRAWINGS, SEE DETAILS. PROVIDE SERVICE GROUNDING CONSISTING OF THREE (3) DRIVEN 3/4"X10'–0" COPPERWELD GROUND RODS, BONDED TOGETHER BY "CADWELD" PROCESS WITH A #3/0 AWG CU. GROUNDING CONDUCTOR. FROM THE GROUND RODS, EXTEND A #3/0 AWG CU. GROUNDING CONDUCTOR AND BOND TO GROUND BUS/SYSTEM GROUND, EXTEND A #3/0 CU. GROUNDING CONDUCTOR AND BOND TO MAIN METALLIC COLD WATER PIPE WHERE IT ENTERS BUILDING. ALSO, EXTEND A #3/0 CU. GROUNDING CONDUCTOR AND BOND TO "REBAR" IN STRUCTURAL STEEL FOOTING.

14. SHOP DRAWINGS AND SUBMITTAL: PROVIDE ELECTRICAL SUBMITTALS AS CALLED FOR HEREINAFTER. SUBMITTALS SHALL INCLUDE MANUFACTURER'S CUTSHEET WITH SPECIFIC MODEL MODEL NUMBERS IDENTIFIED AS THEY APPLY TO THIS PROJECT. SUBMITTALS SHALL INCLUDE LIGHTING, LIGHTING CONTROLS, WIRING DEVICES AND SWITCHGEAR.

15. GUARANTY: GUARANTEE ALL WORK TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE OF JOB. MAKE ALL REPAIRS/REPLACEMENT OF DEFECTIVE PARTS/LABOR DURING WARRANTY PERIOD AT NO ADDITIONAL COST TO THE OWNER AS SOON AS POSSIBLE AFTER NOTIFICATION OF DEFICIENT WORK.

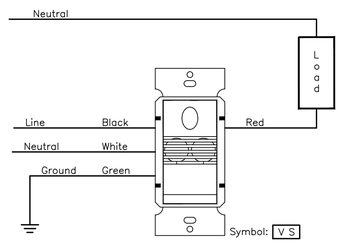
A19 ELECTRICAL SPECIFICATIONS
NO SCALE

LIGHTING FIXTURE SCHEDULE

DESIGNATION	ILLUMINATION: WATTS	DELIVERED LUMENS	COLOR TEMPERATURE (°K)	MINIMUM CRI	MOUNTING: CEILING: PENDANT STEM LENGTH	CEILING: SURFACE	CEILING: RECESSED	WALL: HEIGHT ABOVE FINISHED FLOOR OR GRADE	DESCRIPTION: SHIELDING, TYPE MATERIALS, FINISH, MOUNTING	MANUFACTURER'S PRODUCT ITEM: COMPANY	CATALOG NO.	✱EQUAL PRODUCT PERMITTED: YES	NO	REMARKS
A	60	8386	4000	80	–	•			8FT LENSED STRIP, EXTERIOR	LITHONIA	TZL1D L96 SMR 6000LM FST MVOLT 40K 80CRI WH	•		MOUNT ON BOTTOM OF ROOF STRUCTURE.
B	24.6	3287	3500	80	–	•			2X4, FLAT PANEL, SURFACE KIT	LITHONIA	CPX 2X4 3000LM 80CRI 35K SWL MIN10 ZT MVOLT 2X4SMKSH	•		
C	36.3	4425	3500	80	–	•			2X2, FLAT PANEL, SURFACE KIT	LITHONIA	CPX 2X2 4000LM 80CRI 35K SWL MIN10 ZT MVOLT 2X4SMKSH	•		
D	22.5	2006	3500	80	–		•		6" DOWNLIGHT	LITHONIA	LDN6 35/20 L06 AR LSS TRW MVOLT GZ10	•		
E	30	3966	3500	80	–	•			4FT LENSED STRIP	LITHONIA	ZL1D L48 3000LM FST MVOLT 35K 80CRI WH	•		

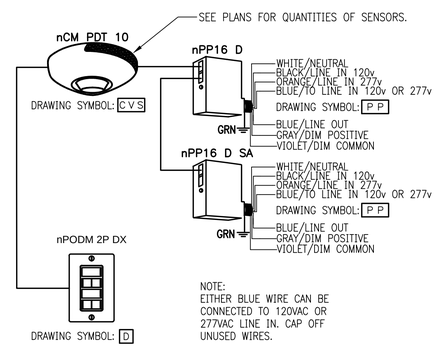
✱ UNLESS NOTED, EQUAL PRODUCT TO THAT SPECIFIED WILL BE ACCEPTED. THE DESIGN PROFESSIONAL SHALL HAVE SOLE JUDGEMENT CONCERNING EQUIVALENCY OF SUBSTITUTION.

M15 LIGHTING FIXTURE SCHEDULE
NO SCALE



Single Switch Manual On
Wattstopper Co. No. CS–50 IN TOILETS
Wattstopper Co. No. CU–250 ALL OTHER

G15 WALL MOUNTED VACANCY SENSOR DETAIL
NO SCALE



NOTE:
EITHER BLUE WIRE CAN BE CONNECTED TO 120VAC OR 277VAC LINE IN. CAP OFF UNUSED WIRES.

G11 0-10V DIMMING LIGHTING CONTROL DETAIL
NO SCALE

L E G E N D

SYMBOL	DESCRIPTION
b A ✱ 3	LED LIGHTING FIXTURE; "A" REFERS TO DESIGNATION IN THE LIGHTING FIXTURE SCHEDULE; "b" REFERS TO SWITCH CONTROL AND "3" REFERS TO CIRCUIT NUMBER. ASTERISK (✱) INDICATES LUMINAIRE TO BE EQUIPPED WITH BATTERY PACK FOR EGRESS LIGHTING.
a B 2	LED LIGHTING FIXTURE; "B" REFERS TO DESIGNATION IN THE LIGHTING FIXTURE SCHEDULE; "a" REFERS TO SWITCH CONTROL; AND "2" REFERS TO CIRCUIT NUMBER.
	WALL–MOUNTED TWIN–HEAD EMERGENCY LIGHTING FIXTURE, CONNECT TO UNSWITCHED LIGHTING CIRCUIT. MOUNT 7'–6" AFF EXCEPT NOT LESS THAN 6" BELOW CEILING. "WG" BY DEVICE INDICATES WIRE GUARD TO BE PROVIDED.
W S X C P D	EXIT SIGN WITH BUILT–IN TWIN HEAD EMERGENCY LIGHT, "W" INDICATES WALL MOUNTING, "C" INDICATES CEILING MOUNTING, "S" INDICATES SINGLE FACE, "D" INDICATES DOUBLE FACE, "P" INDICATES PENDANT MOUNTED. PROVIDE DIRECTIONAL ARROWS ON EXIT SIGNS AS INDICATED ON PLANS. "WG" BY DEVICE INDICATES WIRE GUARD TO BE PROVIDED. UNIT EQUIPPED WITH BATTERY BACK–UP. CONNECT TO UNSWITCHED, "HOT", LIGHTING CIRCUIT.
P S WP K 4	WALL SWITCH; SINGLE POLE UNLESS NOTED 3– OR 4–WAY; "P" INDICATES EQUIPPED WITH PILOT LIGHT TO INDICATE WHEN SWITCH IS ON; W.P. INDICATES WEATHERPROOF, "K" INDICATES KEY OPERATED SWITCH; +48"/– ABOVE FLOOR EXCEPT IN MASONRY WALLS WHERE HEIGHT SHALL BE ADJUSTED TO HAVE BOX EDGE OCCUR AT A MASONRY JOINT. PROVIDE NEUTRAL CONDUCTOR IN ADDITION TO LINE AND SWITCHED CONDUCTORS.
	DUPLEX PLUG RECEPTACLE; 120–VOLTS; 20–AMPERES; MOUNT 3" ABOVE BACKSPLASH AT WORK COUNTERS AND LAVATORIES AND +18" AFF ELSEWHERE UNLESS NOTED TO A DIFFERENT HEIGHT. TAMPER RESISTANT, UNLESS NOT REQUIRED BY CODE.
	SPECIAL PURPOSE 208–VOLT, SINGLE–PHASE RECEPTACLE, MOUNT +18" AFF UNLESS NOTED OTHERWISE, SEE PLANS FOR ADDITIONAL INFORMATION.
	DUPLEX PLUG RECEPTACLE, 120–VOLTS, 20–AMPERES, SHADED CENTER INDICATES EQUIPPED WITH BUILT–IN GROUND FAULT CIRCUIT INTERRUPTER, MOUNT 3" ABOVE BACKSPLASH AT WORK COUNTERS/LAVATORIES AND +18" AFF ELSEWHERE UNLESS NOTED TO A DIFFERENT HEIGHT. PROVIDE WEATHER RESISTANT DEVICE AND WEATHERPROOF "EXTRA DUTY WHILE IN USE" COVER WHERE LOCATED OUTDOORS. TAMPER RESISTANT, UNLESS NOT REQUIRED BY CODE.
	PANELBOARD, RECESSED OR SURFACE MOUNTED AS INDICATED ON DRAWINGS, TOP 6–FEET ABOVE FINISHED FLOOR ADJUSTED TO OCCUR AT A MASONRY JOINT, SEE PANELBOARD SCHEDULE FOR EQUIPMENT CONTAINED.
A–1,3,5	CONDUIT AND CONDUCTORS EXTENDED TO PANELBOARD A, CIRCUITS 1, 3, AND 5. CROSS LINES INDICATE #12 AWG PHASE AND NEUTRAL CONDUCTORS WHERE MORE THAN TWO. SINGLE CIRCUIT BRANCH CIRCUIT WIRING RUNS SHOWN WITHOUT CROSS LINES SHALL BE PROVIDED WITH 2#12, 1#12G. EACH 20 AMPERE BRANCH CIRCUIT SHALL BE PROVIDED WITH SEPARATE NEUTRAL CONDUCTOR. SHARING OF NEUTRAL CONDUCTORS SHALL NOT BE PERMITTED. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN.
EX–3(20/1)	HOMERUN CIRCUIT WIRING TO EXISTING PANELBOARD, NOTATION "3(20/1)" INDICATES HOMERUN WIRING TO BE CONNECTED TO THREE 20/1 CIRCUIT BREAKERS IN EXISTING PANELBOARD. CROSS LINES INDICATES THE NUMBER OF #12 AWG PHASE AND NEUTRAL CONDUCTORS WHERE MORE THAN TWO. SINGLE CIRCUIT BRANCH CIRCUIT WIRING RUNS SHOWN WITHOUT CROSS LINES SHALL BE PROVIDED WITH 2#12, 1#12G. EACH 20 AMPERE BRANCH CIRCUIT SHALL BE PROVIDED WITH SEPARATE NEUTRAL CONDUCTOR. SHARING OF NEUTRAL CONDUCTORS SHALL NOT BE PERMITTED. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN.
	CONDUIT IN THE FLOOR CONSTRUCTION OR UNDERGROUND SHOWN TURNING UP.
	CONDUIT IN THE WALL OR CEILING CONSTRUCTION SHOWN TURNING DOWN.
J	JUNCTION BOX, SIZE AND USE AS REQUIRED; COVERPLATE SHALL OVERLAP THE BOX EDGE BY 1/2" WHERE RECESSED IN WALL WITH CONCEALED WIRING.
	ELECTRIC MOTOR REQUIRING CONNECTION, SIZE, USE, AND LOCATION AS INDICATED ON PLANS, VERIFY LOCATION AND CONNECTIONS REQUIRED WITH MECHANICAL TRADE PRIOR TO ROUGH–IN; USE FLEXIBLE CONDUIT WITHIN 18" OF EQUIPMENT.
	MANUAL MOTOR STARTER TO CONTROL MOTOR INDICATED, SAME MOUNTING HEIGHT AS WALL SWITCH WHERE STARTER IS WALL MOUNTED. "2P" BY STARTER INDICATES TWO POLE STARTER TO BE PROVIDED FOR 208–VOLT, SINGLE–PHASE EQUIPMENT.
	FUSED DISCONNECT SWITCH, HEAVY DUTY "HP" RATED, PROVIDE NEMA 3R ENCLOSURE OUTDOORS.
W C	DATA/VOICE OUTLET, PROVIDE 4 11/16" SQUARE BOX WITH SINGLE–GANG DEVICE RING AND BLANK COVERPLATE. EXTEND EMPTY 1" CONDUIT FROM OUTLET BOX TO POINT ABOVE ACCESSIBLE LAY–IN CEILING AND TERMINATE WITH BUSHING. LOCATE OUTLET BOX 3" ABOVE BACKSPLASH AT WORK COUNTERS AND +18" AFF ELSEWHERE UNLESS NOTED TO A DIFFERENT HEIGHT ON DRAWINGS. "W" BY DEVICE INDICATES DEVICE TO BE DEDICATED FOR WIRELESS ACCESS POINT USE.
V S	WALL MOUNTED VACANCY SENSOR/SWITCH. MOUNT AT +48" A.F.F. SEE PLANS AND DETAILS AT LEFT.
PP	POWER PACK ROOM CONTROLLER FOR CEILING MOUNTED OCCUPANCY SENSOR SYSTEM, SEE PLANS AND DETAILS AT LEFT.
D	WALL MOUNTED DIMMER TO CONTROL LIGHTING FIXTURES INDICATED ON PLANS. SAME MOUNTING HEIGHT AS REGULAR WALL SWITCH. SEE DETAILS AT LEFT.
"CTS"	COMMUNICATION TERMINAL SPACE, 3/4" PLYWOOD BOLTED TO WALL, TOP 6–FEET ABOVE FINISHED FLOOR.

D06 SYMBOL LEGEND
NO SCALE

Vreeland Engineers Inc.
3107 Sutherland Ave.
P.O. Box 10648
Knoxville, TN 37939
865–637–4451
1–800–362–9789
vreelandengineers.com

DIA
Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

HAROLD E. DAMRON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 023989
STATE OF TENNESSEE
3-29-24

PRE-DESIGN / PROPOSAL
HERITAGE PARK ADDITION
115 DURHAM DR, MAYNARDVILLE, TN 37807

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SHEET DESCRIPTION
LEGEND, SCHEDULES, DETAILS

E301

PROJECT DATE	PROJECT NUMBER
3/29/2024	23071

C.O.K. PLANS REVIEW / ELECTRONIC PERMIT STAMP

E301 – HERITAGE PARK – LEGEND, SCHEDULES, DETAILS.dwg
A.L.S. 03/29/24 2:33 PM HD23369(HD)

PANEL **K1** — MAINS: 400A — MAIN BREAKER: NO — FEEDER SIZE: 2#350MCM PER PHASE — VOLTAGE/PHASE: 120/208V,3ø,4W — SHORT CKT. CAPACITY: 42,000 — FED FROM: "MDP" — MOUNTING: FLUSH — ENTRY: TOP — BUS: COPPER

CKT. NO.	SERVES	LOAD (kVA) øA	LOAD (kVA) øB	LOAD (kVA) øC	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD (kVA) øA	LOAD (kVA) øB	LOAD (kVA) øC	SERVES	CKT. NO.
1	PROOFER CABINET #13	1.6			20	1	1	20	0.3			TILT SKILLET BRAIS PAN #8	2
3	COMBI. OVEN, GAS #58		0.8		20	1	ST	ST				SHUNT TRIP	4
5	SHUNT TRIP				ST	ST	3	50			3.9	COUNTERTOP KETTLE #42	6
7	DISHWASHER #16	6.2			90	3			3.9				8
9			6.2							3.9			10
11				6.2			ST	ST				SHUNT TRIP	12
13	DISHW. BOOSTER HTR #16.1	5.2			60	3	1	20	0.8			CONVECTION OVEN #4	14
15			5.2				ST	ST				SHUNT TRIP	16
17				5.2			1	20				SPARE	18
19	PROOFER CABINET #13	1.6			20	1	1	20				SPARE	20
21	SHUNT TRIP				ST	ST	1	20		0.5		REACH-IN REFRIG #10	22
23	PLANETARY MIXER #21			1.2	30	2	1	20			1.3	REACH-IN FREEZER #11	24
25		1.2					1	20	1.4			ICE MACHINE #38	26
27	HOT FOOD TABLE #36		1.4		20	1	2	20		0.9		DOUGH SHEETER #57	28
29	SAND PREP REFRIG #37			0.8	20	1					0.9		30
31	SPARE				20	1	2	30	1.2			PLANETARY MIXER #21	32
33	SPARE				20	1				1.2			34
35	INSTRUCTOR RECEPTACLES			0.4	20	1	1	20			0.4	INSTRUCTOR RECEPTACLES	36
37	INSTRUCTOR RECEPTACLES	0.4			20	1	1	20	0.4			INSTRUCTOR RECEPTACLES	38
39	SPARE				20	1	1	20		0.3		U.C. PREP REFRIG #28	40
41	U.C. REFRIGERATOR #28			0.3	20	1	1	20			0.3	U.C. FREEZER #29	42
43	CONVECTION OVEN #34	2.0			20	2	2	50	2.8			TEACHING STATION #15	44
45			2.0							2.8			46
47	CONVECTION OVEN #34			2.0	20	2	2	20			2.0	CONVECTION OVEN #34	48
49		2.0							2.0				50
51	REACH-IN FREEZER #31		1.3		20	1	2	20		2.0		CONVECTION OVEN #34	52
53	REACH-IN REFRIG #9			0.5	20	1					2.0		54
55	CONVECTION OVEN #34	2.0			20	2	2	20	2.0			CONVECTION OVEN #34	56
57			2.0							2.0			58
59	CONVECTION OVEN #34			2.0	20	2	2	20			2.0	CONVECTION OVEN #34	60
61		2.0							2.0				62
63	COOKTOP/FUME COMBI #52		2.8		50	2	2	20		2.0		CONVECTION OVEN #34	64
65				2.8							2.0		66
67	COOKTOP/FUME COMBI #52	2.8			50	2	2	20	2.0			CONVECTION OVEN #34	68
69			2.8							2.0			70
71	COOKTOP/FUME COMBI #52			2.8	50	2	2	50			2.8	COOKTOP/FUME COMBI #52	72
73		2.8							2.8				74
75	COOKTOP/FUME COMBI #52		2.8		50	2	2					SPACE ONLY	76
77				2.8									78
79	EF-1	0.2			20	1	3	150	16.9			PANELBOARD "K2"	80
81	SPARE				20	1				13.7			82
83	SPARE				20	1					13.9		84
SUB TOTAL CONNECTED		30.0	27.3	27.0					38.5	31.3	31.5	SUB TOTAL CONNECTED	

SUB TOTAL CONNECTED øA: 68.5 SUB TOTAL CONNECTED øB: 58.6 SUB TOTAL CONNECTED øC: 58.5 TOTAL CONNECTED: 185.6

NOTES:
1. PANELBOARD TO BE SINGLE-SECTION WITH 84 SPACES.
2. CIRCUIT NO. 2, 3, 6, 14, AND 19 ARE TO BE SHUNT TRIP TYPE BREAKERS.
3. COMPUTED "K1" LOAD PER NEC TABLE 220.56 IS (167.5KVA X 0.65)+(18.1X1.0) = 108.9 + 18.1 = 127.0KVA.

EXIST. PANEL **EX2** — MAINS: 200A (ETR) — MAIN BREAKER: NO (ETR) — FEEDER SIZE: #3/0 — VOLTAGE/PHASE: 120/208V,1ø,3W — SHORT CKT. CAPACITY: (ETR) — FED FROM: "MDP" — MOUNTING: FLUSH — ENTRY: TOP — BUS: COPPER

CKT. NO.	SERVES	LOAD (kVA) øA	LOAD (kVA) øB	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD (kVA) øA	LOAD (kVA) øB	SERVES	CKT. NO.
1	INTERIOR LIGHTING	1.0		20	1	1	20	0.7		EXTERIOR LIGHTING	2
3	INTERIOR LIGHTING		0.3	20	1	1	20		0.4	EXTERIOR LIGHTING	4
5	EF-2	0.2		20	1	1	20	0.7		EXTERIOR LIGHTING	6
7	CLASSROOM RECEPTACLES		0.8	20	1	2	20		1.2	EUH-1	8
9	EXTERIOR RECEPTACLES	0.4		20	1			1.3			10
11	RECEPTACLES		0.6	20	1	2	50		4.0	CLOTHES DRYER	12
13	CLOTHES WASHER	0.8		20	1			4.0			14
15	BREAK RM RECEPTACLES		0.4	20	1	1	20		0.4	EXHAUST HOOD CONTROL PANEL	16
17	BREAK RM RECEPTACLES	0.4		20	1	1	20	1.0		SITE SIGN POWER	18
19	REFRIGERATOR RECEPTACLE		0.8	20	1	1	20		0.4	MUSIC WALL RECEPTACLES	20
21	SPARE			20	1	1	20			SPARE	22
23	SPARE			20	1	1	20			SPARE	24
25	SPARE			20	1	1	20			SPARE	26
27	SPARE			20	1	1	20			SPARE	28
29	SPARE			20	1	1	20			SPARE	30
31	SPARE			20	1	1	20			SPARE	32
33	SPARE			20	1	1	20			SPARE	34
35	SPARE			20	1	1	20			SPARE	36
37	SPARE			20	1	1	20			SPARE	38
39	SPARE			20	1	1	20			SPARE	40
SUB TOTAL CONNECTED		2.8	2.9					7.7	6.4	SUB TOTAL CONNECTED	

SUB TOTAL CONNECTED øA: 10.5 SUB TOTAL CONNECTED øB: 9.3 TOTAL CONNECTED: 19.8

NOTES:
1. CIRCUITS 2, 4, 6, AND 18 TO BE CONTROLLED BY MULTI-POLE CONTACTOR, CONTACTOR TO BE CONTROLLED BY PHOTOCELL. PROVIDE NEMA 1 ENCLOSURE ADJACENT TO PANELBOARD.
2. (ETR) DENOTES EXISTING TO REMAIN.

PANEL **K2** — MAINS: 150A — MAIN BREAKER: NO — FEEDER SIZE: #1/0 — VOLTAGE/PHASE: 120/208V,3ø,4W — SHORT CKT. CAPACITY: 42,000 — FED FROM: "K1" — MOUNTING: FLUSH — ENTRY: BOTTOM — BUS: COPPER

CKT. NO.	SERVES	LOAD (kVA) øA	LOAD (kVA) øB	LOAD (kVA) øC	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD (kVA) øA	LOAD (kVA) øB	LOAD (kVA) øC	SERVES	CKT. NO.
1	COOKTOP/FUME COMBI #52	2.8			50	2	2	50	2.8			COOKTOP/FUME COMBI #52	2
3			2.8							2.8			4
5	COOKTOP/FUME COMBI #52			2.8	50	2	2	50			2.8	COOKTOP/FUME COMBI #52	6
7		2.8							2.8				8
9	COOKTOP/FUME COMBI #52		2.8		50	2	1	20		0.4		STUDENT RECEPTACLES	10
11				2.8			1	20			0.4	STUDENT RECEPTACLES	12
13	STUDENT RECEPTACLES	0.4			20	1	1	20	0.4			STUDENT RECEPTACLES	14
15	STUDENT RECEPTACLES		0.4		20	1	1	20		0.4		STUDENT RECEPTACLES	16
17	STUDENT RECEPTACLES			0.4	20	1	1	20			0.4	STUDENT RECEPTACLES	18
19	STUDENT RECEPTACLES	0.4			20	1	1	20	0.4			STUDENT RECEPTACLES	20
21	STUDENT RECEPTACLES		0.4		20	1	1	20		0.4		STUDENT RECEPTACLES	22
23	STUDENT RECEPTACLES			0.4	20	1	1	20			0.4	STUDENT RECEPTACLES	24
25	STUDENT RECEPTACLES	0.4			20	1	1	20	0.4			STUDENT RECEPTACLES	26
27	STUDENT RECEPTACLES		0.4		20	1	1	20		0.4		STUDENT RECEPTACLES	28
29	STUDENT RECEPTACLES			0.4	20	1	3	20				KEF-1	30
31	STUDENT RECEPTACLES	0.4			20	1							32
33	EUH-2		2.5		30	3							34
35				2.5			1	20			0.6	WATER HEATER CONTROLS	36
37		2.5					1	20	0.4			RECIRCULATION PUMPS	38
39	SPARE				20	1	1	20				SPARE	40
41	SPARE				20	1	1	20				SPARE	42
43	SPARE				20	1	1	20				SPARE	44
45	SPARE				20	1	1	20				SPARE	46
47	SPARE				20	1	1	20				SPARE	48
49	SPARE				20	1	1	20				SPARE	50
51	SPACE ONLY					2	2					SPACE ONLY	52
53													54
SUB TOTAL CONNECTED		9.7	9.3	9.3					7.2	4.4	4.6	SUB TOTAL CONNECTED	

SUB TOTAL CONNECTED øA: 16.9 SUB TOTAL CONNECTED øB: 13.7 SUB TOTAL CONNECTED øC: 13.9 TOTAL CONNECTED: 44.5

NOTES:
1. PANELBOARD TO BE SINGLE-SECTION WITH 54 SPACES.

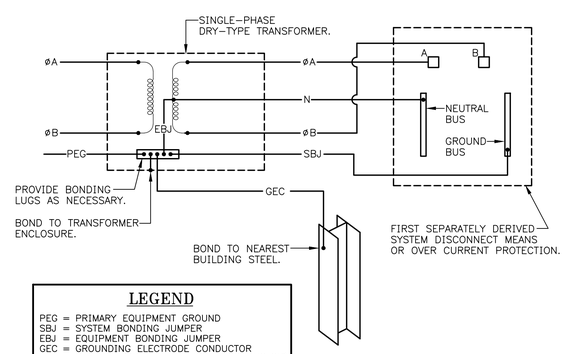
PANEL **MDP** — MAINS: 1000A — MAIN BREAKER: YES (1000/3) — FEEDER SIZE: 3#400MCM PER PHASE — VOLTAGE/PHASE: 120/208V,3ø,4W — SHORT CKT. CAPACITY: 42,000 — FED FROM: UTILITY — MOUNTING: SURFACE — ENTRY: BOTTOM — BUS: COPPER

CKT. NO.	SERVES	LOAD (kVA) øA	LOAD (kVA) øB	LOAD (kVA) øC	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD (kVA) øA	LOAD (kVA) øB	LOAD (kVA) øC	SERVES	CKT. NO.
1	PANELBOARD "K1"	42.3			400	3	2	200	10.5			EX. PANELBOARD "EX2"	2
3			42.3							9.3			4
5				42.3								SPACE ONLY	6
7	SPACE ONLY					1	3	50	4.2			IU-2	8
9	37.5KVA TRANSFORMER		12.5		225	2				4.2			10
11	FOR EXIST. PANEL "EX1"			12.5							4.2		12
13	MAU-1	6.2			80	3	3	30	1.7			OU-2	14
15			6.2							1.7			16
17				6.2							1.7		18
19	IU-3	3.0			40	3	3	50	4.2			IU-4	20
21			3.0							4.2			22
23				3.0							4.2		24
25	OU-3	1.7			30	3	3	30	1.7			OU-4	26
27			1.7							1.7			28
29				1.7							1.7		30
31	IU-5	4.2			50	3	3	40	3.0			IU-6	32
33			4.2							3.0			34
35				4.2							3.0		36
37	OU-5	1.7			30	3	3	30	1.7			OU-6	38
39			1.7							1.7			40
41				1.7							1.7		42
43	EWH-1	0.7			20	2	2	50	4.0			FOOD TRUCK PEDESTAL	44
45			0.8							4.0			46
47	EWH-2			0.7	20	2	2	50			4.0	FOOD TRUCK PEDESTAL	48
49		0.8							4.0				50
51	SPACE ONLY					2	2	50		4.0		FOOD TRUCK PEDESTAL	52
53	SPACE ONLY										4.0		54
55	SPACE ONLY					1	1					SPACE ONLY	56
57	SPACE ONLY					1	1					SPACE ONLY	58
59	SPACE ONLY					1	1					SPACE ONLY	60
61	SPACE ONLY					1	1					SPACE ONLY	62
63	SPACE ONLY					1	1					SPACE ONLY	64
65	SPACE ONLY					3	1					SPACE ONLY	66
67	SPACE ONLY					3	1					SPACE ONLY	68
69	SPACE ONLY					3	1					SPACE ONLY	70
71	SPACE ONLY					3	1					SPACE ONLY	72
73	SPACE ONLY					3	3					SPACE ONLY	74
75													76
77													78
79	SURGE PROTECTIVE DEVICE				50	3	3					SPACE ONLY	80
81	(SPD)												82
83													84
SUB TOTAL CONNECTED		60.6	72.4	72.3					35.0	33.8	24.5	SUB TOTAL CONNECTED	

SUB TOTAL CONNECTED øA: 95.6 SUB TOTAL CONNECTED øB: 106.2 SUB TOTAL CONNECTED øC: 96.8 TOTAL CONNECTED: 298.6

NOTES:
1. PANELBOARD TO BE SERVICE ENTRANCE RATED FOR 120/208-VOLT, 3-PHASE, 4-WIRE, WYE USE.
2. PANELBOARD TO BE NEMA 3R RATED.

J21 PANELBOARD SCHEDULE
NO SCALE



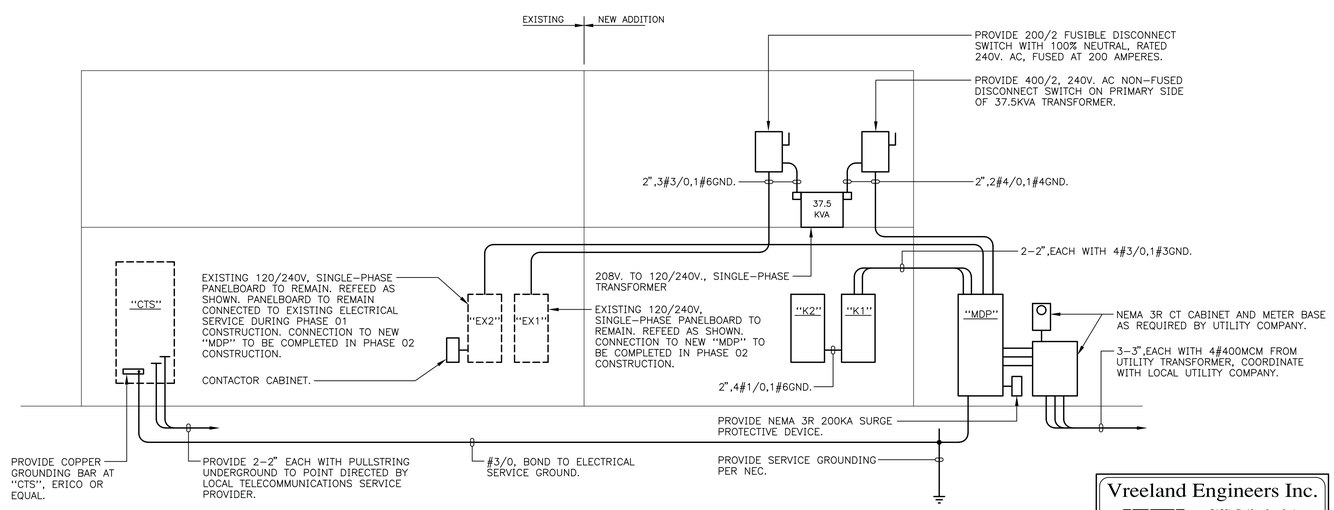
LEGEND

PEG = PRIMARY EQUIPMENT GROUND
SBJ = SYSTEM BONDING JUMPER
EBJ = EQUIPMENT BONDING JUMPER
GEC = GROUNDING ELECTRODE CONDUCTOR
N = NEUTRAL (GROUNDED CIRCUIT CONDUCTOR)

NOTES:

1. TAKEN FROM NEC ARTICLE 250, TABLE 250.66.
2. NEUTRAL CONDUCTOR SHALL BE 100% OF PHASE CONDUCTORS UNLESS CALLED FOR LARGER ELSEWHERE.
3. BONDING OF GROUNDING ELECTRODE CONDUCTOR TO BUILDING STEEL SHALL BE BY CADWELD PROCESS PER SPECIFICATIONS.
4. "PEG" AND "SEG CONDUCTOR SIZES SHALL BE IN ACCORDANCE WITH NEC TABLE 250.122. "GEC" CONDUCTOR SIZES SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250.66 FOR GROUNDING ELECTRODE CONDUCTORS. "BJ" CONDUCTOR SIZE SHALL MATCH "GEC" CONDUCTOR SIZE.

A18 SINGLE-PHASE DRY-TYPE TRANSFORMER DETAIL
NO SCALE



A13 FEEDER DIAGRAM
NO SCALE

Vreeland Engineers Inc.
3107 Sutherland Ave.
P.O. Box 10648
Knoxville, TN 37939
865-637-4451
1-800-362-9789
vreelandengineers.com

DIA Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

HAROLD E. DAMRON — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — No. 022989 — STATE OF TENNESSEE — 3-29-24

PRE-DESIGN / PROPOSAL

HERITAGE PARK ADDITION

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SHEET DESCRIPTION
PANELBOARD SCHEDULES, FEEDER DIAGRAM

E302

PROJECT DATE	PROJECT NUMBER
3/29/2024	23071

C.O.A. PLANS REVIEW / ELECTRONIC PERMIT STAMP

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