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A NEW STORAGE BUILDING FOR THE TOWN OF ASHLAND CITY FIRE DEPARTMENT ASHLAND CITY, TENNESSEE

ABBREVIATIONS

AL	ALUMINUM	CONC	CONCRETE	ENT	ENTRANCE	INSUL	INSULATION
ARCH	ARCHITECTURAL	CONT	CONTINUOUS	EST	ESTIMATE	INT	INTERIOR
AVG	AVERAGE	CPT	CARPET	FIN	FINISH	IRC	INTERNATIONAL F
BL	BLOCK	CORR	CORRIDOR	FO	FINISH OPENING	LAV	LAVATORY
BP	BEARING PLATE	CW	COLD WATER	GA	GAUGE	LINO	LINOLEUM
BR	BRICK	DET	DETAIL	GALV	GALVANIZED	MAR	MARBLE
CPT	CARPET	DF	DRINKING FOUNTAIN	GL	GLASS	MAX	MAXIMUM
CBL	CONCRETE BLOCK	DIA	DIAMETER	GALVL	GALVALUME	MET	METAL
CEM	CEMENT	DIM	DIMENSION	HC	HOLLOW CORE	MIN	MINIMUM
CT	CERAMIC TILE	DN	DOWN	HM	HOLLOW METAL	MO	MASONRY OPENI
CFM	CUBIC FEET PER MINUTE	DS	DOWNSPOUT	HOR	HORIZONTAL	MULL	MULLION
CI	CAST IRON	DW	DISHWASHER	HT	HEIGHT	NA	NOT APPLICABLE
CL	CENTER LINE	EA	EACH	HW	HOT WATER	NAT	NATURAL
CLG	CEILING	EIFS	EXTERIOR INSULATED FIN	HWD	HARD WOOD	NPC	NOT PART OF COI
CLO	CLOSER	ELEV	ELEVATION	ID	INSIDE DIMENSION	NO	NUMBER
GE		TE				ΔΓ	

IF THE ARCHITECT OF RECORD HAS LIMITED INVOLVEMENT DURING THE CONSTRUCTION ADMINISTRATION PHASE, HE IS NOT RESPONSIBLE FOR INTERPRETING THE INTENT OF THE CONSTRUCTION DOCUMENTS, INCLUDING MAKING MODIFICATIONS AS MAY BE NECESSARY DURING THE CONSTRUCTION PHASE; AND THE ARCHITECT OF RECORD IS NO LONGER LIABLE FOR THE WORK WHERE CHANGES TO THESE DOCUMENTS HAVE BEEN MADE.

GENERAL CODE DATA

APPLICABLE CODES NATIONAL FRAME BUILDING ASSOCIATION POST-FRAME DESIGN MANUAL SECOND EDITION





23'-2"

MAIN FLOOR

BUILDING HEIGHT

3,200 SQUARE FEET

S	SUPPL
S & V	STAIN
SAT	SUSPE
SC	SOLID
SCHED	SCHEE
SEC	SECTIO
SHT	SHEET
SPECS	SPECIF
SQ FT	SQUA
SRWY	STAIR
ST	STEEL
STOR	STORA
STRUC	STRUC
SUSP	SUSPE
Т	TREAD
D	KΑ

PLY	TYP	T
N AND VARNISH	UR	U
PENDED ACOUSTICAL	V	V
D CORE	VERT	V
EDULE	VEST	V
ΓΙΟΝ	VT	V
ET	WC	W
CIFICATIONS	WD	W
ARE FEET	WDW	W
RWAY	WP	W
E		
RAGE		
JCTURAL		
PENDED		
AD		
WING S	YM	R C



) K A	WING SYMBOLS		
∇	COLUMN INDICATOR	$\langle 2 \rangle$	SITE PLAN NOTE REFER
126	DOOR INDICATOR	5 A8 3	INTERIOR ELEVATION IN
A	WINDOW INDICATOR	- \$	ELEVATION LEVEL INDIC
2 A8	DETAIL REFERENCE	2 A8	EXTERIOR ELEVATION
2 A8	SECTION LINE	2 A8	ENLARGED DETAIL OF
1	KEYNOTE	1	PARTITION INDICATOR
NORTH	NORTH ARROW		



DESIGN

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PROJECT:

A NEW STORAGE BUILDING

FOR THE ASHLAND CITY FIRE DEPARTMENT

ASHLAND CITY, TENNESSEE 37015

SHEET DESCRIPTION TITLE SHEET

E REFERENCE

ATION INDICATOR

/EL INDICATOR

ATION

TAIL OF AREA

CONSULTANT:

DATE:

REVISION DATE:

REVISION DATE:

REVISION DATE:

DRAWN BY:

PROJECT NUMBER: 2021 - 12

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3'-8" 3'-8" 14'-4" 14'-4

75'-4"

80'-4"

 3'-8"	 6'-0"





 1
 SCHEMATIC
 FRAMING/FLOOR
 PLAN

 A2.1
 SCALE: 3/8" = 1'-0"

GENERAL NOTES 1. ALL BRACING TO BE INSTALLED PER THE NATIONAL FRAME BUILDERS ASSOCIATION POST-FRAME DESIGN MANUAL.

1 CONTROL JOINT PLAN A2.2 SCALE: 3/8" = 1'-0"

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1 SCHEMATIC BUILDING SECTION A5.1 SCALE: 3/8" = 1'-0"

2 SCHEMATIC BUILDING SECTION A5.1 SCALE: 3/8" = 1'-0"

GENERAL NOTES

- 1. IT IS RECOMMENDED THAT THE OWNER HAVE A GEOTECHNICAL INVESTIGATION PERFORMED.
- 2. THE DESIGNER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR APPLICABILITY OF THE REPORT DATA. 3. DESIGN ALLOWABLE SOIL BEARING PRESSURES ARE 2,100 PSF FOR CONTINUOUS (WALL) FOOTINGS.
- 4. FOOTINGS SHALL BE NEATLY EXCAVATED WHERE POSSIBLE WITH SIDES AND TOP EDGES FREE OF LOOSE OR WET MATERIALS. WHERE NEAT EXCAVATION IS NOT POSSIBLE, FOOTING EXCAVATION SHALL BE OPEN CUT WITH EDGES FORMED AND BRACED. ANY FOOTINGS WITH FORMED EDGES SHALL BE BACKFILLED FROM BOTTOM TO TOP WITH APPROVED FILL MATERIAL.
- 5. THE BOTTOM OF THE EXCAVATION SHALL BE CLEAN AND DRY AND HAVE ALL LOOSE MATERIAL REMOVED FROM AN ESSENTIALLY FLAT BEARING SURFACE.
- 6. EXCAVATIONS SHALL NOT BE LEFT OPEN OVERNIGHT UNLESS PROPERLY PROTECTED FROM WEATHER. OPEN EXCAVATIONS EXPOSED TO WEATHER OVERNIGHT WILL BE REJECTED BY THE DESIGNER AND IT WILL BE THE CONTRACTORS RESPONSIBILITY TO CORRECT, AT THEIR OWN EXPENSE.
- 7. WHERE SOFT OR UNSUITABLE BEARING SOILS ARE ENCOUNTERED, THE AREA SHALL BE UNDERCUT AS REQUIRED AND REPLACED WITH APPROVED ENGINEERED FILL, AS DIRECTED BY THE GEOTECHNICAL ENGINEER. 8. REINFORCEMENT
- A. BOTTOM REINFORCING MATS SHALL BE SUPPORTED OFF SLAB BOLSTERS DESIGNED FOR SOIL SUPPORTED 10. FOR REINFORCING STEEL, REFER TO THE FOLLOWING: SLABS. SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 48" CENTERS, EACH WAY, UNLESS NOTED
- OTHERWISE. DEPTH OF SUPPORTS SHALL PROVIDE 3" CLEAR COVER TO THE REINFORCING STEEL. B. TOP REINFORCING MATS SHALL BE SUPPORTED OFF REBAR STANDEE SUPPORTS. SPACING BETWEEN
- SUPPORTS SHALL NOT EXCEED 48" CENTERS, EACH WAY, UNLESS NOTED OTHERWISE. DEPTH OF SUPPORT SHALL PROVIDE 2" CLEAR TOP COVER TO THE REINFORCING STEEL.
- C. ALL REINFORCING STEEL SHALL BE SECURELY TIED PRIOR TO CONCRETE PLACEMENT.
- D. ALL REINFORCING BARS SHALL BE CLEAN AND FREE OF DIRT, CONCRETE SPOILS OR OTHER DEBRIS PRIOR TO CONCRETE PLACEMENT.

9. SLAB ON GRADE

- REMOVAL SHALL BE 12".
- FILL MATERIAL. REFER TO TECHNICAL SPECIFICATIONS.
- WATER, ICE, FROST, MUD OR OTHER UNSUITABLE MATERIAL.
- A. REFER TO DRAWINGS FOR TYPICAL SLAB REINFORCEMENT REQUIREMENTS.
- 2") AT SPLICES.
- C. CONTINUOUS SLAB ON GRADE REINFORCING SHALL BE PROVIDED WITH LAPPED JOINTS OF 36 BAR DIAMETERS (MIN. 12") AT SPICED LOCATIONS.
- D PROVIDE REQUIRED COVER FOR REINFORCING STEEL.

A. UNLESS SPECIFIED OTHERWISE, SLAB ON GRADE CONSTRUCTION SHALL FOLLOW THE RECOMMENDATIONS OF ACI 302.1R - GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION.

B. AREAS CONTAINING SLAB ON GRADE CONSTRUCTION SHALL BE STRIPPED TO SUFFICIENT DEPTH TO REMOVE ALL VEGETATION, TOPSOIL, ORGANIC MATERIALS OR OTHER UNSUITABLE MATERIALS. MINIMUM DEPTH OF

SUBGRADE SOILS SHALL BE SCARIFIED TO MINIMUM SIX INCHES DEPTH, PROOF ROLLED AND COMPACTED TO 98% OF STANDARD PROCTOR DENSITY (ASTM D698). ALL UNSUITABLE MATERIAL AND SOFT SPOTS SHALL BE REMOVED AND BACKFILLED WITH APPROVED FILL PLACED IN MAXIMUM 8" LOOSE LIFTS AND COMPACTED TO 98% STANDARD PROCTOR DENSITY. MOISTURE CONTENT OF SUBGRADE SHALL BE +/- 2% OF OPTIMUM. ALLOW THE SUBGRADE TO DRY OR ADD WATER AS REQUIRED TO ATTAIN THE SPECIFIED MOISTURE CONTENT. D. ALL GRADE ADJUSTMENTS FOR SLAB ON GRADE CONSTRUCTION SHALL BE ACCOMPLISHED WITH APPROVED

PROVIDE VAPOR BARRIER OVER THE FINAL PREPARED SUBGRADE PRIOR TO CONCRETE PLACEMENT. F. NO SLAB ON GRADE CONCRETE SHALL BE POURED AGAINST A FINAL PREPARED SUBGRADE CONTAINING FREE

B. ALL WELDED WIRE FABRIC SHALL BE FURNISHED IN FLAT SHEETS. PROVIDE LAPS (ONE CROSS WIRE SPACING +

ALL REINFORCING STEEL SHALL BE SUPPORTED ON SLAB BOLSTERS, DESIGNED FOR SUPPORT ON SOIL, TO

11. CONCRETE Α.

ALL CONCRETE SHALL BE NORMAL WE SPECIFIED BELOW, UNLESS NOTED OT	IGHT CONCRETE AND SHALL CONFORM TO THE REQUIREMENTS AS HERWISE.
SPREAD/COLUMN FOOTINGS	4,000 PSI

0	.,
COLUMN PIERS	4,000 PSI
WALLS	4,000 PSI

SLAB ON GRADE 4,000 PSI (NO FLY ASH) ALL COMPRESSIVE STRENGTHS, NOTED ABOVE SHALL MEET MINIMUM SPECIFIED STRENGTH AT 28 DAYS. ALL NORMAL WEIGHT CONCRETE, SUBJECT TO EXPOSURE OF FREEZE/THAW CYCLE, SHALL HAVE AIR ENTRAINMENT OF 5.5% \pm 1% BY VOLUME.

UNLESS NOTED OTHERWISE: EXTRA REINFORCEMENT SHALL BE PROVIDED AT ALL MISCELLANEOUS WALL AND SLAB OPENINGS. REINFORCEMENT SIZE SHALL MATCH BAR SIZE OF WALL OR SLAB REINFORCEMENT. BARS SHALL BE LOCATED PARALLEL TO EACH OPEN FACE. ADDITIONAL BARS SHALL LOCATED DIAGONALLY AT ALL CORNER OF OPENING REINFORCEMENT. ALL REINFORCING BARS SHALL EXTEND MINIMUM 24" BEYOND THE CONCRETE OPENING.

REINFORCING STEEL

A. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. DETAILING OF AND BAR SUPPORTS FOR REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CURRENT ACI STANDARDS.

REINFORCING STEEL COVERAGE SHALL BE PROVIDED AS INDICATED ON THE DRAWINGS.

#6 BAR AND SMALLER **38 BAR DIAMETERS**

MINIMUM LAP/DEVELOPMENT LENGTH OF REINFORCING BARS SHALL BE:

#7 BAR AND GREATER **47 BAR DIAMETERS** В.

MINIMUM COVER FOR CONCRETE REINFORCEMENT:	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	- "
#6 THRU. #18 BARS	2"
#5 AND SMALLER BARS	1 1/2
CONCRETE NOT EXPOSED TO WEATHER ON IN CONTACT WITH GROUND	
SLABS AND WALLS	
#14 AND #18 BARS	1 1/2
#11 AND SMALLER BARS	3/4"
BEAMS AND PIERS	
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1 1/2