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9/23/2022 8:38:34 AM

#6 WELL BUILDING ADDITION 45 Twin Rivers Drive, East Windsor, NJ 08520

FOR THE

EAST WINDSOR MUNICIPAL UTILITY AUTHORITY

7 Wiltshire Drive East Windsor, N.J. 08520





SPIEZLE ARCHITECTURAL GROUP, INC 1395 YARDVILLE HAMILTON SQUARE ROAD SUITE 2A HAMILTON, NJ 08691 Phone: 609.695.7400 Fax: 609.394.2274 www.spiezle.com

-PROJECT SITE





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3/4'

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MATER	AL SYMBOLS		DRAWING SYMBOLS	
	BATT INSULATION / SOUND ATTENUATION		SIM/OPP TAG	
	BRICK		DETAIL NO. 1 DRAWING NO. A1.1	IDENTIFICATION
	CONCRETE			BUILDING SECTION
	CONCRETE MASONRY UNIT (CMU)		DRAWING NO.	IDENTIFICATION
	EARTH		SIM/OPP TAG CLOSED HEAD SECTION NO.	WALL SECTION IDENTIFICATION
	FIRE SAFING		DRAWING NO	
	GYPSUM WALL AND/OR CEILING BOARD		DETAIL NO	
	MORTAR NET		A1.1 DRAWING NO.	
	MORTAR / GROUT		ROOM NAME ROOM NUMBER GROSS SF OCCUPANTS ROOM NAME ROOM NAME 101 101 150 GSF OCC: ###	ROOM TAG
	PLYWOOD			COLUMN NUMBER
ŠOŠ(POROUS FILL or SUB-SLAB AGGREGATE		10	REVISION NUMBER
	RIGID INSULATION		(101)	DOOR NUMBER
	SPRAY FOAM INSULATION			WINDOW TYPE
	STEEL		(8A.1) CW-XX	CURTAIN WALL or STOREERONT TAG
	STONE		NAME ELEVATION	DATUM or ELEVATION MARK
	CONTINUOUS WOOD BLOCKING		€ <22A>	CENTERLINE
	WOOD SHIM OR BLOCKING		1/A1.1	VIEW REFERENCE
		1		1

FT FOOT or FEET FRTW FIRE RETARDANT TREATED WOOD GALVANIZED GROSS SQUARE FEET GYPSUM WALL BOARD HOLLOW METAL HIGH POINT LOW POINT MAXIMUM MINIMUM MASONRY OPENING NOT APPLICABLE NOT IN CONTRACT NET SQUARE FEET ON CENTER OVERFLOW DRAIN OR OUTSIDE DIAMETER PAINT or PAINTED PRESSURE TREATED WOOD POLYVINYL CHLORIDE ROOF DRAIN REINFORCED OR REINFORCING RAIN WATER CONDUCTOR SQUARE FEET TOP OF STEEL TYPICAL VERIFY IN FIELD

ABBREVIATIONS

CONCRETE MASONRY UNIT

COLD FORMED METAL FRAMING

EXTERIOR INSULATION AND FINISH SYSTEM

FIRE EXTINGUISHER (BRACKET MOUNTED)

CONTROL JOINT

DOWN

EQUAL

DRAWING

ELEVATION

FLOOR DRAIN

EXPANSION JOINT ELECTRIC WATER COOLER

FIRE EXTINGUISHER CABINET

CJ

CMU CFMF DN DWG EIFS

EL EQ

EJ EWC

FD

FE FEC

GALV GSF GWB HM HP LP MAX MIN MO

N/A NIC

NSF

OC OD PTD

PTW PVC

RD REINF RWC SF TOS TYP VIF

1. PROVIDE (1) ANGLES FOR EACH 4" OF MASONRY WIDTH

2. BEAR LINTELS 6" MINIMUM EACH SIDE OF OPENING

3. ALL LINTELS IN EXTERIOR WALLS TO BE GALVANIZED

4. WHERE OPENING LOCATED NEXT TO COLUMNS OR BEAMS,

ATTACH STRUCTURAL STEEL CONNECTION NOT TO PROTRUDE INTO OPENING.

5. CONSULT ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR OPENING SIZE AND LOCATION.

NO UI FC AC	DTES: NLESS OTHERWISE SPECI DR ALL SQUARE HEAD MA CCORDANCE WITH THE FC	FIED ON THE DRAWINGS FUR SONRY OPENINGS IN ALL MAS DLLOWING SCHEDULE AND CO	NISH AND INSTALL LIN SONRY WALLS IN DMMENTS.		
	LOOSE LINTEL SCHEDULE (FOR 4", 8", 12", AND 16" WALLS)				
	MASONRY OPENING	LINTEL SIZE	REMARKS		
	UP TO 4'-0"	L-3 1/2" X 3 1/2" X 1/4"			
	4'-1" TO 6'-0"	L-5 1/2" X 3 1/2" X 5/16"			
	6'-1" TO 8'-0"	L-6" X 3 1/2" X 5/16"			
	OVER 8'-0"	W8X18 + PLATE LINTEL			
	LOOSE	(FOR 6" WALLS)	HEDULE		
	MASONRY OPENING	LINTEL SIZE	REMARKS		
	2'-0" TO 6'-0"	WT 7X11			
	6'-1" TO 8'-0"	WT 8X13			
N	DTES:				

WINGS FURNISH AND INSTALL LINTELS GS IN ALL MASONRY WALLS IN DULE AND COMMENTS.

DOOR AND FRAME NOTES

1. 2. 3.	OPENING FORCE OF INTERIOR NON-RATED DOORS SHALL BE NO GREATER THAN 5 LBS. OPENING FORCE OF FIRE RATED DOORS SHALL BE NO GREATER THAN 8 LBS. ALL EXTERIOR GLAZING IN NON-RATED WALL AND DOOR ASSEMBLIES SHALL BE
	MINIMUM 1" INSULATED GLAZING. REFER TO SPECIFICATIONS FOR GLAZING TYPES.
4.	PAINT ALL EXPOSED STEEL (COLOR AS SELECTED BY ARCHITECT).
5.	PROVIDE COMPATIBLE FLASHING MATERIALS BETWEEN DISSIMILAR MATERIALS SUCH AS STEEL TO ALUMINUM.
6.	SHIM ASSEMBLIES AS REQUIRED FOR PLUMB AND LEVEL. PROVIDE SEALANT AND
	BACKER RODS AT ALL JOINTS BETWEEN WINDOW SYSTEMS, DOOR FRAMES AND OTHER
	SURROUNDING CONSTRUCTION.
7.	ALUMINUM WINDOW AND ENTRANCE FRAMES SHALL NOT BE INSTALLED IN DIRECT
	CONTACT WITH DISSIMILAR BUILDING MATERIALS.
8.	THE MINIMUM LATCH SIDE CLEARANCE BETWEEN THE EDGE OF DOOR AND ADJACENT
	WALL OR OBSTRUCTIONS ON PULL SIDE SHALL BE 1'-6" MINIMUM.
9.	THE MINIMUM LATCH SIDE CLEARANCE BETWEEN THE EDGE OF DOOR AND ADJACENT
	WALL OR OBSTRUCTIONS ON PUSH SIDE SHALL BE 1'-0" MINIMUM.
A	BBREVIATIONS:
	HM - HOLLOW METAL
	AL - ALLIMINUM

LIST OF DRAWINGS

DWG. NO.	TITLE	CURRENT REVISION
GENERAL		
CS.1	COVER	
CS.2	DETAILS, NOTES, ABBREVIATIONS, AND LIST OF DRAWINGS	
ARCHITECTURAL		
A1.1	FLOOR PLANS	

GENERAL STRUCTURAL NOTES

- FOUNDATION
- 1. All footings shall bear on soil having a minimum safe bearing capacity of 1.5 tons per square foot. Confirm in field prior to placing footings.
- CAST-IN-PLACE CONCRETE
- 1. All concrete work shall conform to the latest edition of the ACI Building Code. 2. All concrete, except slabs on grade, shall attain 3000 PSI compressive strength at 28 days. All concrete for slabs on grade shall attain 3500 PSI compressive strength at 28 days.

REINFORCING

- 1. All reinforcing bar details shall conform to the latest ACI code and detailing manual.
- 2. All bars shall be ASTM A-615, Grade 60. 3. Welded wire fabric shall be ASTM A-185.

MASONRY

- 1. All block work shall be in accordance with IBC2018 w/ NJ Modification and other applicable codes. 2. All block shall be lightweight aggregate and conform to ASTM C 90.
- 3. Mortar shall be ASTM C 270, Type M for below grade and Type M or S for above grade work. 4. Horizontal reinforcing shall be No. 9 gage "Dur-o-wall or equivalent. Provide fabricated corner sections at all corners. Where masonry is laid in other then running bond, horizontal joint reinforcement is to be
- provided at every horizontal joint. 5. Where block fill is called for on drawings, use Type M mortor or concrete with a compressive strength of 2500 PSI in accordance with ASTM C 476, and installed in accordance with ACI-531 for high or low lift procedures.
- 6. Coordinate masonry with all trades requiring items to be built-in.

PREFABRICATED WOOD

- 1. Prefabricated wood or metal trusses shall be designed and manufactured by the truss manufacturer. See required design loads on drawings. 2. Submit signed and sealed shop drawings and calculations for review prior to fabrication or erection.
- 3. Installation to be in strict accordance with manufacturer's recommendations. Brace trusses during erection as per manufacturer's recommendations.

MISCELLANEOUS







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3/4"=1"

1/2

14

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	RNATIONAL I	BUILDING CODE (2	2018)	
CHAPTER 3 - OCCUP	ANCY CLAS	SIFICATION AND U	ISE	
302 USE	GROUP CLA	ASSIFICATION	U	
CHAPTER 5 - BUILDI	NG HEIGHTS	AND AREAS		
504.3	ALLOWA ACT	ABLE BUILDING HE	Eight Eight	55' 16'
504.4	ALLOWABLI ACTUAI	E NUMBER OF STO NUMBER OF STO	DRIES DRIES	3 1
506.2 (EQ. 5-1)	Aa 32,660 = 2	= At + (NS x lf) 3,000 + (23,000 x 4	2%)	
At = TABULAR ALI	OWABLE AF	REA FACTOR (TAB	LE 506.2)	23,000 \$
	NS = CONS	TANT FROM (TAB	LE 506.2)	23,000 \$
If = AREA IN	ICREASE DU	E TO FRONTAGE	% (506.3)	42%
Aa = AL				32,000 5
	E.			025 SF
				104 OF
				1,003 31
	NCREASE			
(EQ. 5-5)	If = $[(F/P)]$	- 0.25] (W/30)		
		(2) - 0.25j (#/30) NTIDE DUU DING (I		170
			- I) - 0/	172
II = AREA			= 70	42%
CHAPTER 6 - TYPES	OF CONSTR	UCTION		
MIN. CONSTR Construction	UCTION TYP TYPE FOR R	e req. VB Eview IIB		
TAE	<u>3LE 601</u>		REQ'D RA	ATING (HR
PRIMARY STRUCTUR	AL FRAME			0
BEARING WALLS	EXTERIOR	ł		0
	INTERIOR	1		0
NON BEARING WALLS	EXTERIO	R (TABLE 602)		0
	INTERIOR	1		0
FLOOR CONSTRUCTION	NC			0
ROOF CONSTRUCTIO	N			0
CHAPTER 8 - INTERIO	OR FINISHES			
OCCUPANCY (NON S	SPRINKLERE	D)	<u> </u>	FSI
INTERIOR EXIT STAIRS	S, RAMPS, PA	ASSAGEWAYS	NO RES	STRICTION
CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS			NO RESTRICTION	
ROOMS	S AND ENCLO	OSED SPACES	NO RES	TRICTION
CHAPTER 9 - FIRE PF	ROTECTION			
AUTOMATIC SPRK	INKER SYST	EM PROVIDED	(NC	D)
CHAPTER 10 - MEAN	S OF EGRES	S		
TOTAL OCCUPANT L	OAD			
FUNCTION OF SPACE	AREA (SF)	OCCUPANCY LOAD FACTOR	NU OC	IMBER OF
EQUIPMENT	764	300 GSF		3

ELEVATION AT TOP OF FINISHED FLOOR SLAB SHALL BE REFERENCED AS DATUM 2. DO NOT SCALE THE DRAWINGS. IF A DIMENSION IS UNCLEAR OR A DISCREPANCY IS . ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO THE COMMENCEMENT OF WORK. WHERE FABRICATION IS REQUIRED, DIMENSIONS SHALL BE VERIFIED PRIOR TO THE DETAILS AND SECTIONS ON THE DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED IN A SIMILAR MANNER OR BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION. MODIFICATIONS MAY BE REQUIRED BY THE CONTRACTOR TO ACCOMMODATE FOR MINOR VARIATIONS IN THE THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES AND COORDINATING WITH NEW WORK. ADVISE ARCHITECT/ENGINEER OF PRIOR TO POURING OF CONCRETE FOOTINGS, THE CONCRETE REINFORCEMENT STEEL MINIMUM OF 20 FEET IN LENGTH THAT IS ENCASED IN A MINIMUM OF 2" CONCRETE THE CONTRACTOR SHALL INSTALL LOOSE LINTELS FOR ALL WALL PENETRATIONS WIDER THAN 6" AS A RESULT OF DUCT, PIPE OR OTHER EQUIPMENT INSTALLATIONS. 10. ALL WALL AND FLOOR PENETRATIONS SHALL BE PATCHED AND SEALED BY THEIR 1. ALL FLOOR PENETRATIONS FOR PIPING AND CONDUIT SHALL BE SLEEVED AND SEALED. 2. PARTITIONS SHALL BE LAID OUT STARTING FROM CONDITIONS WHERE ALIGNMENT WITH EXISTING CONSTRUCTION IS SHOWN. UNLESS OTHERWISE NOTED, DIMENSIONS ARE

