

# CITY OF GEORGETOWN PUBLIC WORKS BUILDING

## 125 N. KAMINSKI STREET

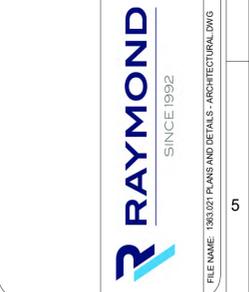


DRAWING SHEET INDEX ON G-002

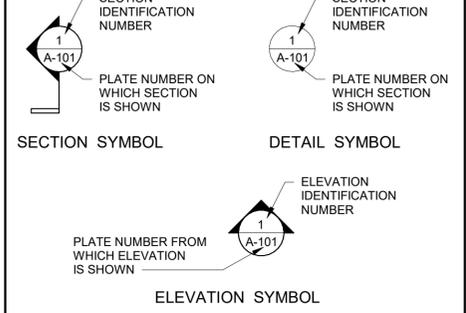


CONSTRUCTION BID SET	DATE	DESCRIPTION OF REVISION
1	9/17/2021	

DESIGNED BY:	PER	DATE:	SEPTEMBER 17, 2021
CHECKED BY:	BAW	PROJECT CODE:	CHS1001.001
DRAWN BY:	PER	SCALE:	12" = 1'-0"
		PLOT DATE:	
		PLOT TIME:	
		D SIZE ANSI BORDER	



### SECTION, DETAIL, AND ELEVATION SYMBOLS



CITY OF GEORGETOWN  
PUBLIC WORKS BLDG  
125 N. KAMINSKI ST  
COVER SHEET

PLATE NUMBER:  
**G-001**  
SHEET OF

## SCOPE OF WORK

RENOVATIONS OF THE INTERIOR SPACE AND EXPANDING THE INTERIOR SPACE AREA TO ACCOMMODATE A STAFF OF FIVE (5) EMPLOYEES. THE CURRENT INTERIOR OFFICE SPACE IS APPROXIMATELY 1000 SQUARE FEET (SF) AND THE DEPARTMENT IS CURRENTLY OPERATING IN CRAMMED QUARTERS. THE RENOVATED SPACE SHALL CONSIST OF:

- 1) THREE OFFICES FOR THE DEPARTMENT OF PUBLIC WORKS MANAGEMENT
- 2) TWO WORKSTATIONS FOR THE KGB PROGRAM ADMINISTRATOR AND A MAINTENANCE TECHNICIAN.
- 3) ONE CONFERENCE ROOM WITH A CAPACITY FOR 8 SEATS.
- 4) ONE KITCHENETTE AREA
- 5) TWO ADA COMPLIANT RESTROOMS FOR MALES AND FEMALES
- 6) ONE FILE STORAGE ROOM
- 7) ON COPY MACHINE AREA
- 8) ONE ENTRANCE VESTIBULE
- 9) ONE BACK ENTRANCE FOR EMPLOYEES

## PROJECT NOTES:

1. ALL WORK SHALL MEET THE MINIMUM REQUIREMENTS OF THE LATEST ADOPTED EDITIONS OF THE APPLICABLE CODES, AS INDICATED ON THIS SHEET AND ALL OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS HAVING JURISDICTION.
2. DO NOT SCALE DRAWINGS. CLARIFY ANY DIMENSIONAL DISCREPANCIES WITH THE ARCHITECT PRIOR TO CONTINUING WITH THE WORK.
3. CLARIFY ANY COORDINATION DISCREPANCIES BETWEEN ENGINEER DRAWINGS AND ARCHITECTURAL DRAWINGS WITH THE ARCHITECT PRIOR TO CONTINUING WITH THE WORK.
4. ALL WORK LISTED, SHOWN OR IMPLIED ON THE CONSTRUCTION DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR EXCEPT WHERE OTHERWISE NOTED.
5. G.C. TO COORDINATE INSTALL OF FIRE ALARM SYSTEM W/ LICENSED VENDOR

## GENERAL DEDUCTIVE ALTERNATE NOTES:

1. A DEDUCTIVE ALTERNATE IS AN AMOUNT PROPOSED BY GC AND STATED ON THE BID FORM FOR CERTAIN WORK DEFINED IN THE BIDDING REQUIREMENTS THAT MAY BE ADDED TO OR DEDUCTED FROM THE BASE BID AMOUNT IF CITY DECIDES TO ACCEPT A CORRESPONDING CHANGE EITHER IN THE AMOUNT OF CONSTRUCTION TO BE COMPLETED OR IN THE PRODUCTS, MATERIALS, EQUIPMENT, SYSTEMS, OR INSTALLATION METHODS DESCRIBED IN THE CONTRACT DOCUMENTS.
2. COORDINATION: MODIFY OR ADJUST AFFECTED ADJACENT WORK AS NECESSARY TO COMPLETELY INTEGRATE WORK OF THE BID OPTION INTO PROJECT. INCLUDE AS PART OF EACH DEDUCTIVE ALTERNATE MISCELLANEOUS DEVICES, ACCESSORY OBJECTS, AND SIMILAR ITEMS INCIDENTAL TO OR REQUIRED FOR A COMPLETE INSTALLATION WHETHER OR NOT INDICATED AS PART OF DEDUCTIVE ALTERNATE.
3. EXECUTE ACCEPTED DEDUCTIVE ALTERNATE UNDER THE SAME CONDITIONS AS OTHER WORK OF THE CONTRACT.

## CODE CRITERIA:

- INTERNATIONAL BUILDING CODE (IBC) 2018
- NFPA 101 LIFE SAFETY CODE (SEE NOTES BELOW) 2018
- NFPA NATIONAL FIRE CODES WITH THE EXCEPTION OF NFPA 5000 AND NFPA 900
- OCCUPATIONAL, SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.
- NATIONAL ELECTRICAL CODE (NEC) 2020
- INTERNATIONAL PLUMBING CODE (IPC) 2018
- BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE AND COMMENTARY (ACI 318)
- VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY – ASHRAE STANDARD 62.1-2019
- SAFETY STANDARD FOR REFRIGERATION SYSTEMS – ASHRAE STANDARD 15

## DEDUCTIVE ALTERNATES:

PROVIDE SEPARATE PRICING FOR THE FOLLOWING ITEMS:

- DEDUCT #1 - TBD

### LOCAL CODES:

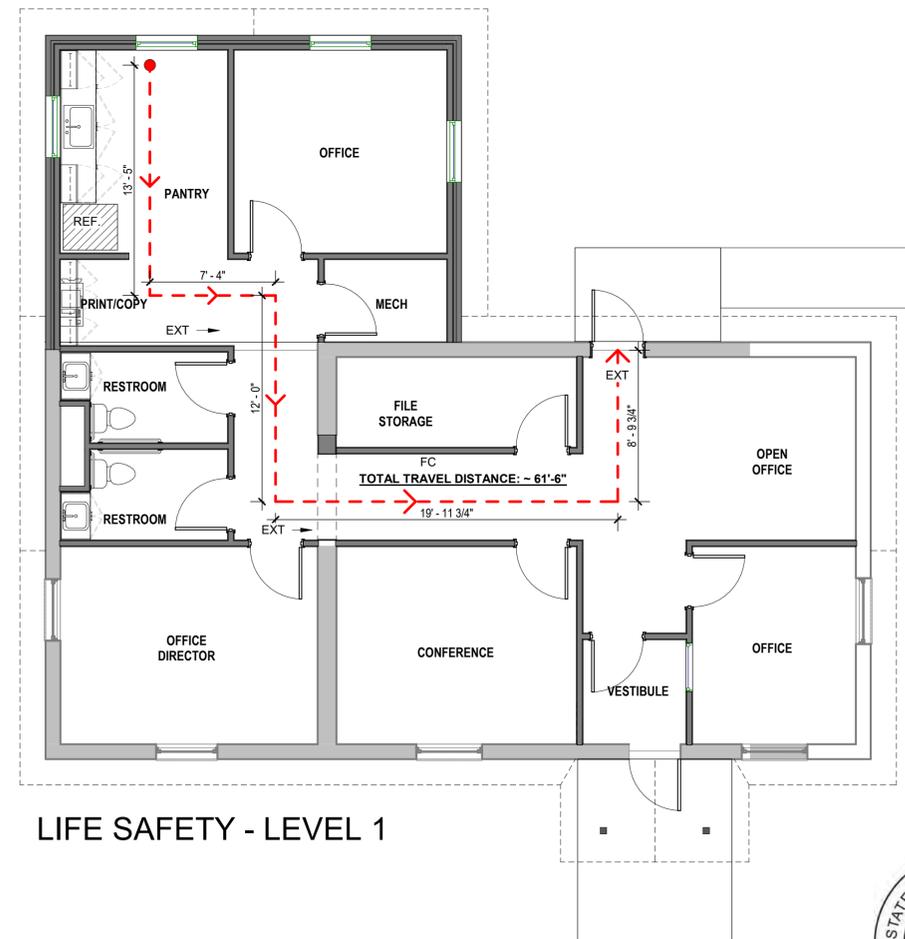
GC TO FOLLOW ANY AND ALL LOCAL BUILDING CODES AS ASSOCIATED WITH THIS PROJECT AND PROJECT JURISDICTION.

### NOTES:

1. NFPA 101 PRIMARILY ADDRESSES LIFE SAFETY AND FIRE PROTECTION FEATURES WHILE THE IBC ADDRESSES A WIDE RANGE OF CONSIDERATIONS, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL STRENGTH, SEISMIC STABILITY, SANITATION, ADEQUATE LIGHT AND VENTILATION, AND ENERGY CONSERVATION. DESIGNS SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF NFPA 101 AND DOCUMENTS REFERENCED THEREIN. DESIGN FEATURES NOT ADDRESSED BY NFPA 101 OR DOCUMENTS REFERENCED THEREIN SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE IBC OR AS OTHERWISE ADDRESSED ABOVE IN THIS PROGRAM GUIDE. FOR DESIGN FEATURES THAT ARE ADDRESSED BY BOTH THE IBC AS WELL AS NFPA 101 OR A DOCUMENT REFERENCED BY NFPA 101, THE REQUIREMENTS OF NFPA 101 OR THE DOCUMENT REFERENCED BY NFPA 101 SHALL BE USED EXCLUSIVELY (THIS APPLIES EVEN IF THE IBC REQUIREMENTS ARE DIFFERENT).

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LIFE SAFETY - LEVEL 1



CITY OF GEORGETOWN  
PUBLIC WORKS BLDG  
125 N. KAMINSKI ST

PLATE NUMBER:  
**G-002**  
SHEET OF

**RAYMOND**  
SINCE 1992  
FILE NAME: 13631021 PLANS AND DETAILS - ARCHITECTURAL DWG

DESIGNED BY: PER  
CHECKED BY: MIL/KGR  
DRAWN BY: SCJD  
DATE: JULY 14, 2021  
PROJECT CODE: CHS1001.001  
SCALE: As Indicated  
PLOT DATE:  
PLOT TIME:  
D SIZE ANSI BORDER

DATE	DESCRIPTION OF REVISION	BY	CHKD
9/17/2021	CONSTRUCTION BID SET		





Main drawing grid with columns A through J and rows 1 through 6. Contains technical specifications for rough carpentry, framing, and interior finish carpentry.



Table with columns: CONSTRUCTION (BW, PER), DESCRIPTION OF REVISION (1, 2), and DATE.

Table with columns: CONSTRUCTION (PER), DESCRIPTION OF REVISION (3), and DATE.

Table with columns: CONSTRUCTION (PER), DESCRIPTION OF REVISION (4), and DATE.

Table with columns: DATE (JULY 14, 2021), PROJECT CODE (CHS1001.001), SHEET SPECIFICATIONS, and SCALE (1" = 1'-0").

Table with columns: DESIGNED BY (PER), DRAWN BY (Author), CHECKED BY (Checker), PLOT DATE, PLOT TIME, and FILE NAME (S:\2021 PLANS AND DETAILS - ARCHITECTURAL DWG).

CITY OF GEORGETOWN PUBLIC WORKS BLDG 125 N. KAMINSKI ST



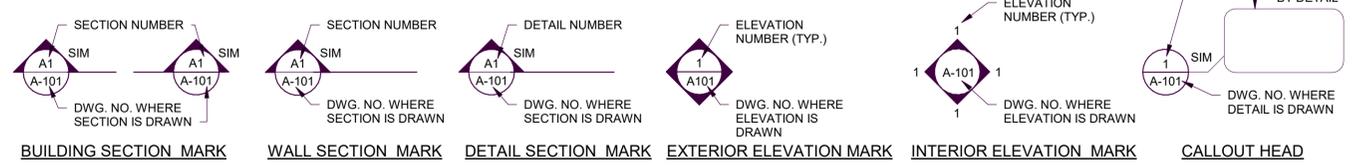
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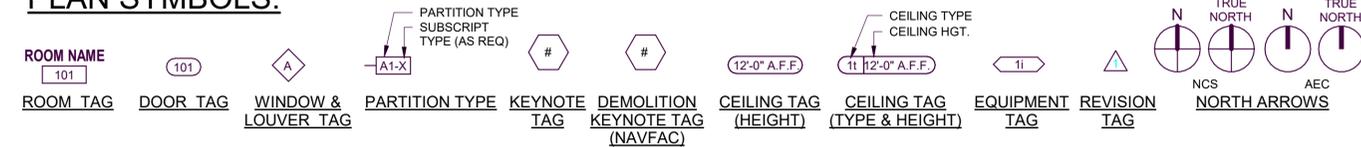




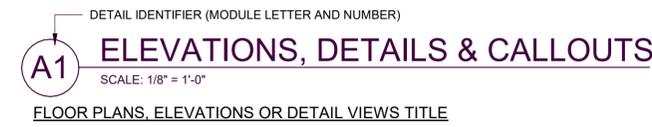
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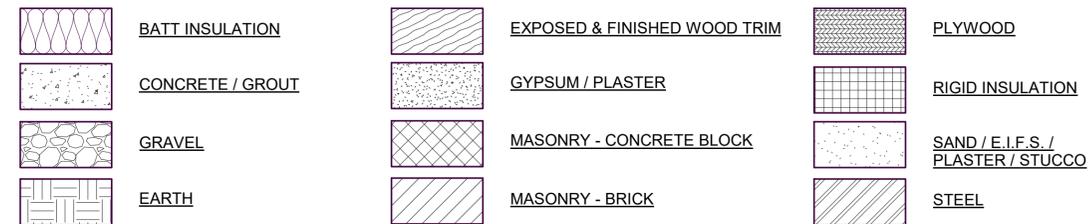
### PLAN SYMBOLS:



### VIEW TITLES:



### MATERIALS IN SECTION - FILL PATTERNS:



### SHEET NAMING CONVENTION

**A-001A**

2 DIGIT DISCIPLINE DESIGNATOR (IF ONLY ONE LETTER IS USED, THE SECOND LETTER IS REPLACED WITH A DASH "-" AS A PLACEHOLDER)\*\*

1 DIGIT AREA DESIGNATOR (AREA DESIGNATOR ONLY USED WHEN PLANS ARE SUBDIVIDED INTO AREAS.)

1 DIGIT SHEET TYPE DESIGNATOR  
 0 - GENERAL  
 1 - PLANS  
 2 - ELEVATIONS  
 3 - SECTIONS  
 4 - ENLARGED PLANS  
 5 - DETAILS  
 6 - SCHEDULES AND DIAGRAMS  
 7 - VARIES  
 8 - VARIES  
 9 - 3D VIEWS (ISO, PERSPECTIVES)

2 DIGIT SEQUENTIAL # (01-99) (FIRST DIGIT INDICATES PLAN TYPE, SECOND DIGIT INDICATES FLOOR)

### REFLECTED CEILING PLAN LEGEND

- DOWNLIGHT- CENTER IN ACOUST. CEILING PANELS, TYP., U.N.O.
- ⊙ EMERGENCY DOWNLIGHT- CENTER IN ACOUST. CEILING PANELS, TYP., U.N.O.
- 1' X 4' PENDANT LIGHT FIXTURE
- 1' X 4' EMERGENCY PENDANT LIGHT FIXTURE
- ▭ 1' X 4' LAY-IN LIGHT FIXTURE
- ▬ 1' X 4' EMERGENCY LAY-IN LIGHT FIXTURE
- ▭ 2' X 4' FLUORESCENT LIGHT FIXTURE
- ▬ 2' X 4' EMERGENCY LIGHT FIXTURE
- ▭ 2' X 2' LAY-IN LIGHT FIXTURE
- ▬ 2' X 2' EMERGENCY LAY-IN LIGHT FIXTURE
- ⊠ 24" X 24" MECH. DIFFUSERS
- ⊠ 24" X 24" MECH. RETURN AIR GRILLES
- ⊙ SCONCE LIGHTS
- ⊙ EXT. WALL MOUNTED FIXTURE
- ⊗ WALL MOUNTED EXIT SIGN
- ⊗ CEILING MOUNTED EXIT SIGN
- △ AP RATED OR NON-RATED, LOCKABLE, STEEL ACCESS PANEL 2'-0" W. X 3'-0" DP. - PROVIDE ACCESS PANELS AS REQUIRED TO ALLOW ACCESS TO EQUIPMENT, SHUT-OFF VALVES, FIXTURES, MECH. LOUVERS, FIRE DAMPERS AND OTHER ITEMS ABOVE THE CEILING. PAINT TO MATCH THE ADJACENT SURFACE'S COLOR, U.N.O.
- ⊙ OS OCCUPANCY SENSOR
- ⊙ CEILING MOUNTED MASS NOTIFICATION SPEAKER, ONE WAY TYPE
- ⊙ P CEILING MOUNTED PUBLIC ADDRESS SPEAKER, ONE WAY TYPE
- A 2'-0" x 2'-0" ACOUSTICAL CEILING SYSTEM
- B 2'-0" x 4'-0" ACOUSTICAL CEILING SYSTEM
- C INSTALL 5/8" WATER- RESISTANT GYPSUM BOARD AT THE CEILING OF RESTROOMS ONLY. ALL OTHER ROOMS INDICATED AS SUCH WILL BE STANDARD 5/8" GYPSUM BOARD.
- D,E EIFS CEILING SYSTEM
- F EXTERIOR METAL PANEL SOFFIT



DATE	9/17/2021	BY	CHKD
DESIGNED BY	PER	CONSTRUCTION BID SET	DESCRIPTION OF REVISION
CHECKED BY	MLVGR		
DRAWN BY	SCJD		
DATE			
#			

DATE	JULY 14, 2021	SCALE	12" = 1'-0"
PROJECT CODE	CHS1001.001	D SIZE ANSI BORDER	
ARCHITECTURAL SYMBOLS			

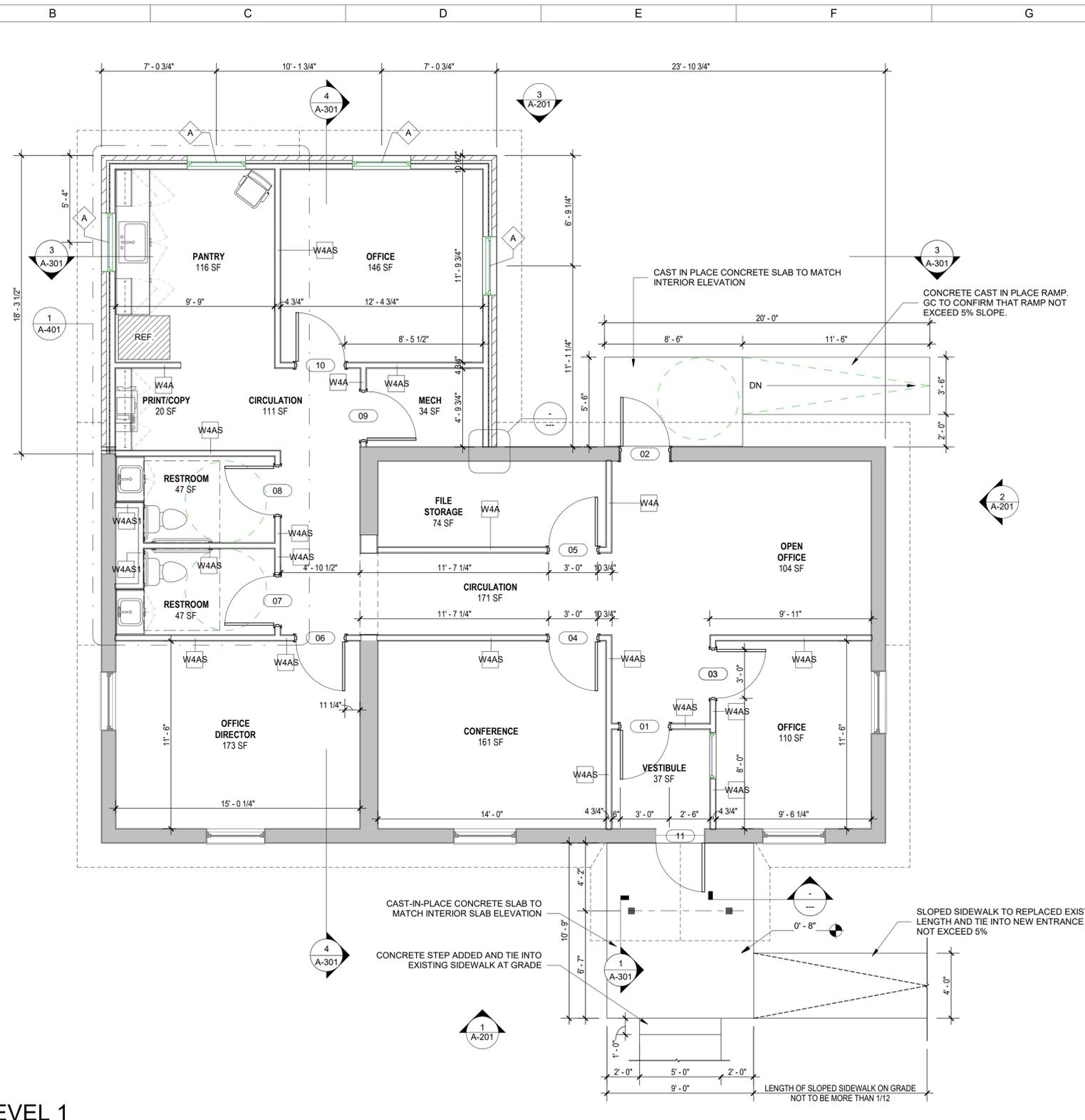


CITY OF GEORGETOWN  
 PUBLIC WORKS BLDG  
 125 N. KAMINSKI ST  
 ARCHITECTURAL SYMBOLS



PLATE NUMBER:  
**A-002**  
 SHEET OF



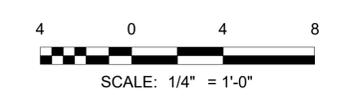


- GENERAL FLOOR PLAN NOTES:**
- ALL DIMENSIONS TO BE VERIFIED IN FIELD.
  - WHEN FLOOR, WALL, AND CEILING ARE REQUIRED TO BE PATCHED, THE CONTRACTOR SHALL PATCH WITH NEW LIKE MATERIALS TO MATCH WITH THE EXISTING ADJACENT SURFACES, U.N.O.
  - ALL NEW WORK SHALL BE COMPLETE AND OPERATIONAL.
  - CONTRACTOR IS RESPONSIBLE FOR REROUTING ANY CONDUITS, WIRING, PLUMBING, OR PIPING AS REQUIRED TO ACHIEVE THE DESIRED LAYOUT SHOWN. NEW REROUTING LOCATIONS SHALL BE CONCEALED WITHIN WALL WHEN IT IS IMPOSSIBLE TO CONCEAL ITEMS. LOCATE ITEMS TIGHT AGAINST WALLS-ENCLOSE ITEMS WITH GWB WITHOUT DISRUPTION OF SERVICE TO OTHER AREAS.
  - TYPICAL WALL JAMB TO BE 6" FROM WALL AT HINGE SIDE OF DOOR U.N.O.
  - ALL PENETRATIONS/HOLES IN EXISTING OR NEW WALLS & FLOORS SHALL BE PROPERLY PATCHED TO MATCH ADJACENT AREA OR FIRESTOPPED AS REQUIRED, EVEN IF PENETRATIONS/HOLES ARE COVERED BY NEW MILLWORK.
  - SUPPORT ALL WALL AND CEILING MOUNTED ITEMS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. COORDINATE WITH WALL AND CEILING TYPES, TYPICAL.
  - WHERE WALL, FLOOR, CEILING ARE SCHEDULED TO REMAIN OR PARTS OF WALLS ARE DAMAGED OR OPEN DUE TO CONSTRUCTION, CONTRACTOR SHALL PATCH AND REPAIR AS REQUIRED FOR A CLEAN FINISH LOOK AND SAME PREVIOUS CONDITION. PRE ALL SURFACES WHERE ARE SCHEDULED TO RECEIVE NEW FINISHES AS REQUIRED.
  - PROVIDE BLOCKING IN ALL WALLS WHERE CABINETRY, SPECIALTY SHELVING OR AV EQUIPMENT IS TO BE LOCATED.
  - PROVIDE ALL NONCOMBUSTIBLE TYPE BACKING AND BLOCKING IN WALLS AND CEILINGS AS REQD. TO RIGIDLY SECURE ALL WALL & CEILING MOUNTED ITEMS WITH ALL WOOD BLOCKING TO BE FIRE RETARDANT TYPE. COORD. W/OWNER AND OWNER'S SPECIAL EQUIPMENT CONTRACTOR FOR LOCATION OF ALL WALL & CEILING MOUNTED ITEMS OTHER THAN THOSE SCHEDULED.
  - SEE MATERIAL, FINISH SCHEDULES, AND FLOORING PLANS FOR ADDITIONAL FINISH INFORMATION AND LOCATIONS.
  - PREPARE WALLS TO RECEIVE FINISH AS INDICATED ON THE FINISH SCHEDULE AND APPROPRIATE SPEC. SECTION IN ACCORDANCE WITH MANF. RECOMMENDATIONS (U.N.O.). IF OTHERWISE NOTED INSTALLATION METHOD CONFLICTS WITH MANF. RECOMMENDATIONS NOTIFY ARCHITECT IN WRITING PRIOR TO MATERIAL ORDER, FABRICATION OR INSTALLATION.
  - PROVIDE UL APPROVED PENETRATION PROTECTION AT ALL RATED WALL ASSEMBLIES, RATED HORIZONTAL ASSEMBLIES AND ALL WALL DOUBLE TOP PLATE PENETRATIONS AS PER FBC CHAPTER AND ALL FED., STATE AND LOCAL CODES - TYP.

**KEYNOTES:** (KEYNOTE NUMBERS ARE UNIFORM ACROSS ALL SHEETS AND SOME MAY NOT BE REQUIRED ON THIS SHEET)

KEYNOTES - FLOOR PLAN	
NO.	DESCRIPTION

**1 PLAN - LEVEL 1**  
1/4" = 1'-0"



DATE	JULY 14, 2021	PROJECT CODE	CHS1001.001	SCALE	As Indicated	CONSTRUCTION BID SET		
DESIGNED BY	PER	CHECKED BY	MILVGR	PLOT DATE		DESCRIPTION OF REVISION		
DRAWN BY	SCJD	PROJECT NAME	ARCHITECTURAL FLOOR PLAN - LEVEL 1				DATE	
FILE NAME	1303.021 PLANS AND DETAILS - ARCHITECTURAL DWG						#	

SINCE 1992

**CITY OF GEORGETOWN**  
**PUBLIC WORKS BLDG**  
 125 N. KAMINSKI ST

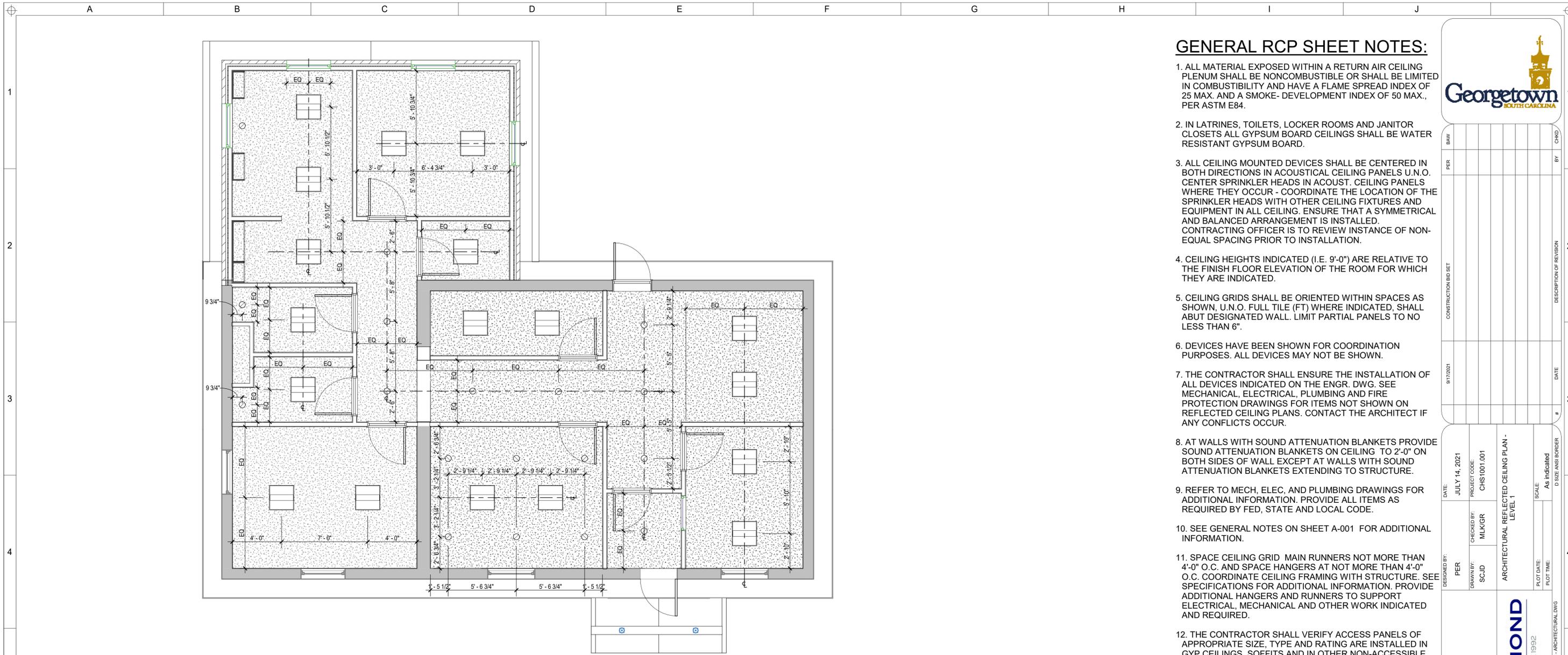
ARCHITECTURAL FLOOR PLAN - LEVEL 1

PLATE NUMBER:  
**A-101**

SHEET OF

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**GENERAL RCP SHEET NOTES:**

1. ALL MATERIAL EXPOSED WITHIN A RETURN AIR CEILING PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL BE LIMITED IN COMBUSTIBILITY AND HAVE A FLAME SPREAD INDEX OF 25 MAX. AND A SMOKE- DEVELOPMENT INDEX OF 50 MAX., PER ASTM E84.
2. IN LATRINES, TOILETS, LOCKER ROOMS AND JANITOR CLOSETS ALL GYPSUM BOARD CEILINGS SHALL BE WATER RESISTANT GYPSUM BOARD.
3. ALL CEILING MOUNTED DEVICES SHALL BE CENTERED IN BOTH DIRECTIONS IN ACOUSTICAL CEILING PANELS U.N.O. CENTER SPRINKLER HEADS IN ACOUST. CEILING PANELS WHERE THEY OCCUR - COORDINATE THE LOCATION OF THE SPRINKLER HEADS WITH OTHER CEILING FIXTURES AND EQUIPMENT IN ALL CEILING. ENSURE THAT A SYMMETRICAL AND BALANCED ARRANGEMENT IS INSTALLED. CONTRACTING OFFICER IS TO REVIEW INSTANCE OF NON-EQUAL SPACING PRIOR TO INSTALLATION.
4. CEILING HEIGHTS INDICATED (I.E. 9'-0") ARE RELATIVE TO THE FINISH FLOOR ELEVATION OF THE ROOM FOR WHICH THEY ARE INDICATED.
5. CEILING GRIDS SHALL BE ORIENTED WITHIN SPACES AS SHOWN, U.N.O. FULL TILE (FT) WHERE INDICATED, SHALL ABOUT DESIGNATED WALL. LIMIT PARTIAL PANELS TO NO LESS THAN 6".
6. DEVICES HAVE BEEN SHOWN FOR COORDINATION PURPOSES. ALL DEVICES MAY NOT BE SHOWN.
7. THE CONTRACTOR SHALL ENSURE THE INSTALLATION OF ALL DEVICES INDICATED ON THE ENGR. DWG. SEE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ITEMS NOT SHOWN ON REFLECTED CEILING PLANS. CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR.
8. AT WALLS WITH SOUND ATTENUATION BLANKETS PROVIDE SOUND ATTENUATION BLANKETS ON CEILING TO 2'-0" ON BOTH SIDES OF WALL EXCEPT AT WALLS WITH SOUND ATTENUATION BLANKETS EXTENDING TO STRUCTURE.
9. REFER TO MECH, ELEC, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. PROVIDE ALL ITEMS AS REQUIRED BY FED, STATE AND LOCAL CODE.
10. SEE GENERAL NOTES ON SHEET A-001 FOR ADDITIONAL INFORMATION.
11. SPACE CEILING GRID MAIN RUNNERS NOT MORE THAN 4'-0" O.C. AND SPACE HANGERS AT NOT MORE THAN 4'-0" O.C. COORDINATE CEILING FRAMING WITH STRUCTURE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE ADDITIONAL HANGERS AND RUNNERS TO SUPPORT ELECTRICAL, MECHANICAL AND OTHER WORK INDICATED AND REQUIRED.
12. THE CONTRACTOR SHALL VERIFY ACCESS PANELS OF APPROPRIATE SIZE, TYPE AND RATING ARE INSTALLED IN GYP CEILINGS, SOFFITS AND IN OTHER NON-ACCESSIBLE TYPE CEILINGS OR SOFFITS WHERE ACCESS, SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL ITEMS MAY BE REQUIRED AND/OR NECESSARY. ACCESS PANELS SHALL BE THE FIRE RATED TYPE EQUAL TO THE RATING OF THE CEILING OR SOFFIT IN WHICH THEY OCCUR. COORDINATE ACCESS PANELS WITH MECHANICAL BALANCING DAMPER LOCATIONS.



DATE	9/17/2021	DESCRIPTION OF REVISION	
BY	CHKD		
PER			
CONSTRUCTION BID SET			

DATE	JULY 14, 2021	PROJECT CODE	CHS1001.001
CHECKED BY	MILVGR	DESIGNED BY	SCJD
DESIGNED BY	SCJD	ARCHITECTURAL REFLECTED CEILING PLAN - LEVEL 1	
SCALE	As Indicated	D SIZE ANSI BORDER	

**RAYMOND**  
SINCE 1992  
FILE NAME: 1383.021 PLANS AND DETAILS - ARCHITECTURAL DWG

**KEYNOTES:** (KEYNOTE NUMBERS ARE UNIFORM ACROSS ALL SHEETS AND SOME MAY NOT BE REQUIRED ON THIS SHEET)

NO.	DESCRIPTION
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**1 REFLECTED CEILING PLAN**  
1/4" = 1'-0"

**REFLECTED CEILING PLAN LEGEND**

- DOWNLIGHT- CENTER IN ACOUST. CEILING PANELS, TYP., U.N.O.
- ⊙ EMERGENCY DOWNLIGHT- CENTER IN ACOUST. CEILING PANELS, TYP., U.N.O.
- 1' X 4' PENDANT LIGHT FIXTURE
- 1' X 4' EMERGENCY PENDANT LIGHT FIXTURE
- ▭ 1' X 4' LAY-IN LIGHT FIXTURE
- ▨ 1' X 4' EMERGENCY LAY-IN LIGHT FIXTURE
- ▭ 2' X 4' FLUORESCENT LIGHT FIXTURE
- ▨ 2' X 4' EMERGENCY LIGHT FIXTURE
- ▭ 2' X 2' LAY-IN LIGHT FIXTURE
- ▨ 2' X 2' EMERGENCY LAY-IN LIGHT FIXTURE
- ⊠ 24" X 24" MECH. DIFFUSERS
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- SCONCE LIGHTS
- EXT. WALL MOUNTED FIXTURE
- ⊠ WALL MOUNTED EXIT SIGN
- ⊠ CEILING MOUNTED EXIT SIGN
- AP RATED OR NON-RATED, LOCKABLE, STEEL ACCESS PANEL 2'-0" W. X 3'-0" DP. - PROVIDE ACCESS PANELS AS REQUIRED TO ALLOW ACCESS TO EQUIPMENT, SHUT-OFF VALVES, FIXTURES, MECH. LOUVERS, FIRE DAMPERS AND OTHER ITEMS ABOVE THE CEILING. PAINT TO MATCH THE ADJACENT SURFACE'S COLOR, U.N.O.
- OS OCCUPANCY SENSOR
- S CEILING MOUNTED MASS NOTIFICATION SPEAKER, ONE WAY TYPE
- P CEILING MOUNTED PUBLIC ADDRESS SPEAKER, ONE WAY TYPE
- A 2'-0" x 2'-0" ACOUSTICAL CEILING SYSTEM
- B 2'-0" x 4'-0" ACOUSTICAL CEILING SYSTEM
- C INSTALL 5/8" WATER- RESISTANT GYPSUM BOARD.
- D EXTERIOR METAL PANEL SOFFIT

9/20/2021 4:59:15 PM

CITY OF GEORGETOWN  
PUBLIC WORKS BLDG  
125 N. KAMINSKI ST  
ARCHITECTURAL REFLECTED CEILING PLAN - LEVEL 1



PLATE NUMBER:  
**A-103**  
SHEET OF

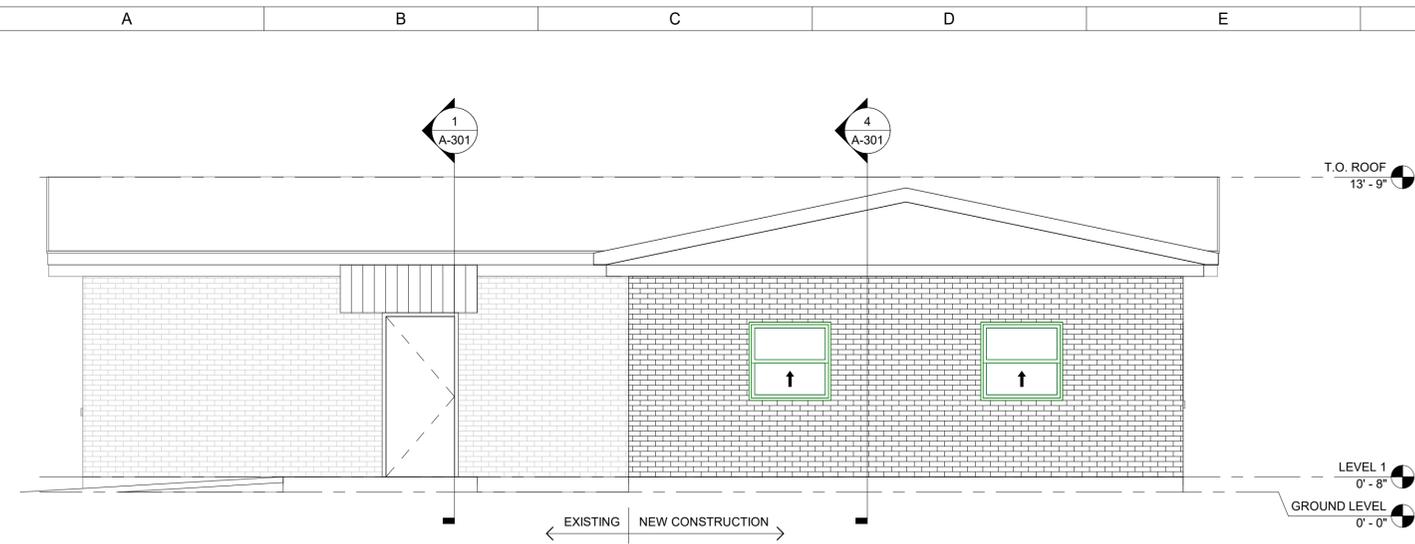


**ELEVATION PLAN SHEET NOTES:**

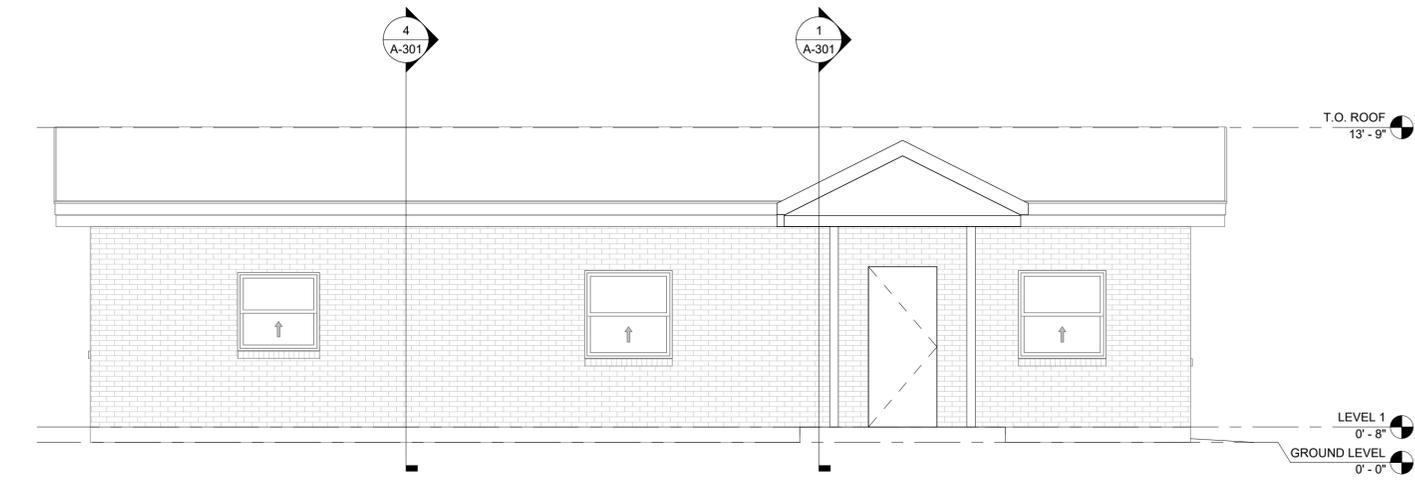
1. REFER TO FINISH SCHEDULE FOR EXTERIOR FINISH PANEL, STAIR RAIL, WALL TYPES AND COLOR.
2. REFER TO M.E.P. AND STRUCTURAL FOR ANY EXPOSED PIPE WORK, LOCATION, COLOR AND TYPE.
3. ALL EXTERIOR FINISHES TO MATCH EXISTING.

**KEYNOTES:** (KEYNOTE NUMBERS ARE UNIFORM ACROSS ALL SHEETS AND SOME MAY NOT BE REQUIRED ON THIS SHEET)

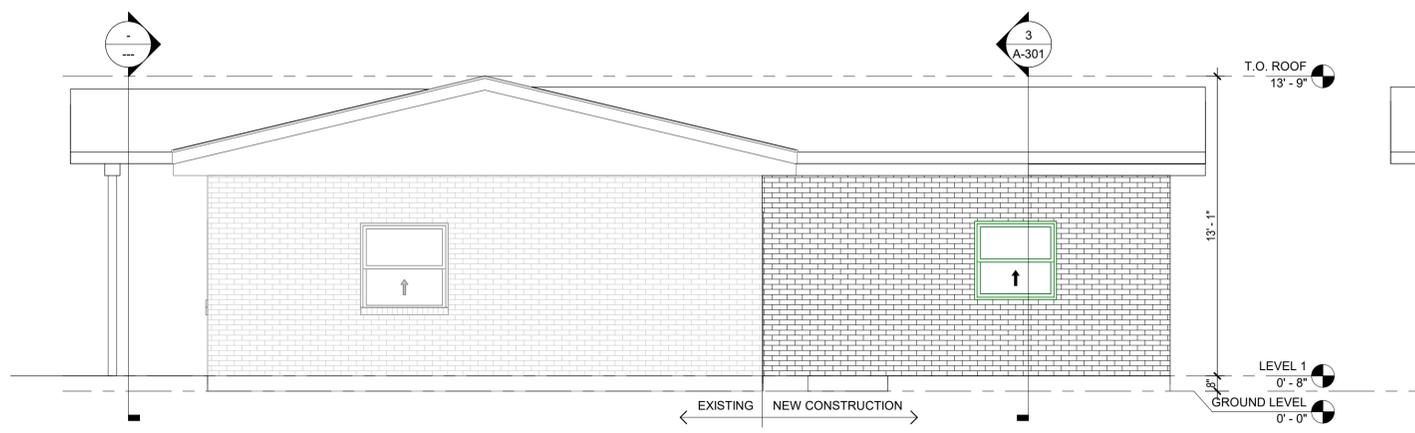
KEYNOTES - ELEVATIONS	
NO.	DESCRIPTION



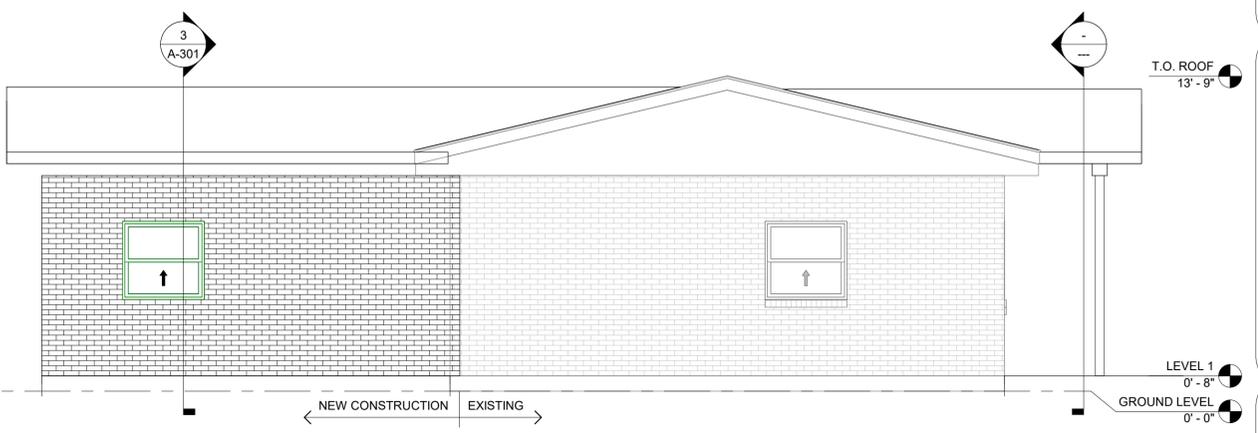
**3 ELEVATION - NORTH**  
1/4" = 1'-0"



**1 ELEVATION - SOUTH**  
1/4" = 1'-0"



**2 ELEVATION - EAST**  
1/4" = 1'-0"



**4 ELEVATION - WEST**  
1/4" = 1'-0"

CONSTRUCTION BID SET	DESCRIPTION OF REVISION	DATE	#

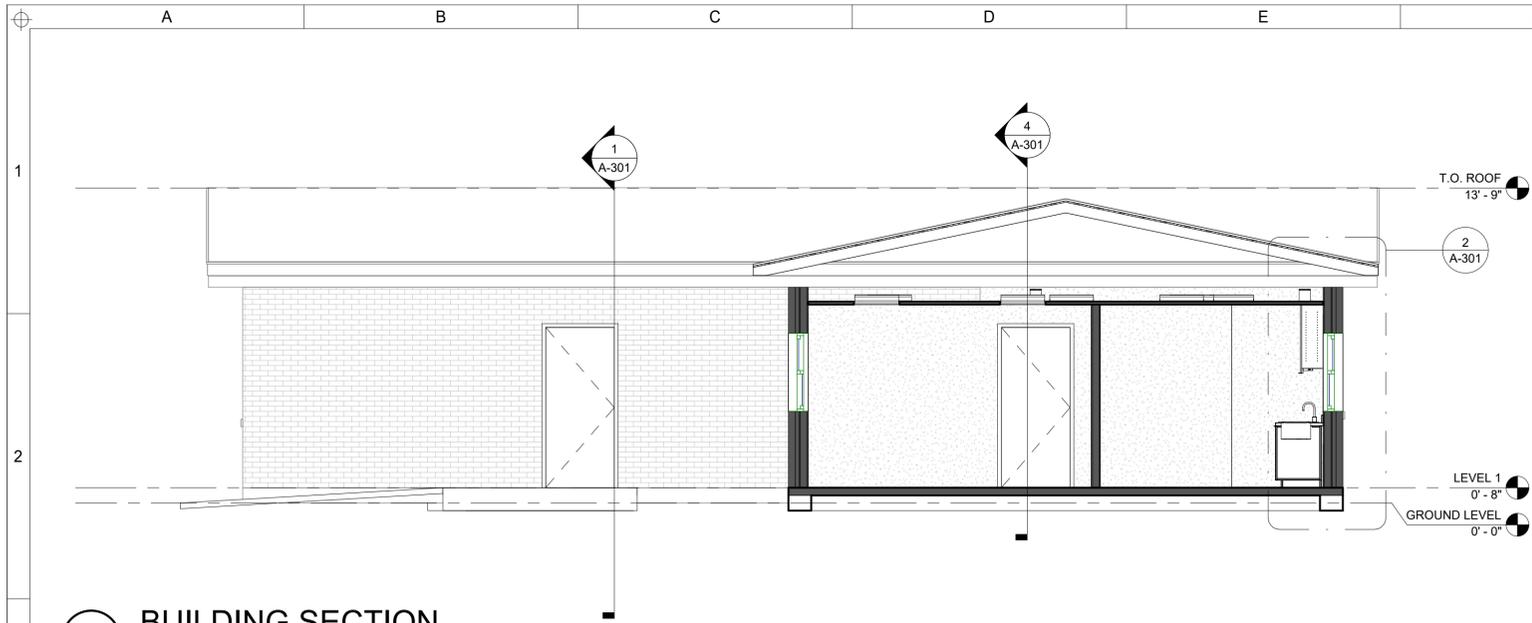
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CHECKED BY: MLVGR	PROJECT CODE: CHS1001.001
DRAWN BY: SCJD	ARCHITECTURAL ELEVATIONS
PLOT DATE: PLOT TIME:	SCALE: As Indicated
D SIZE ANSI BORDER	



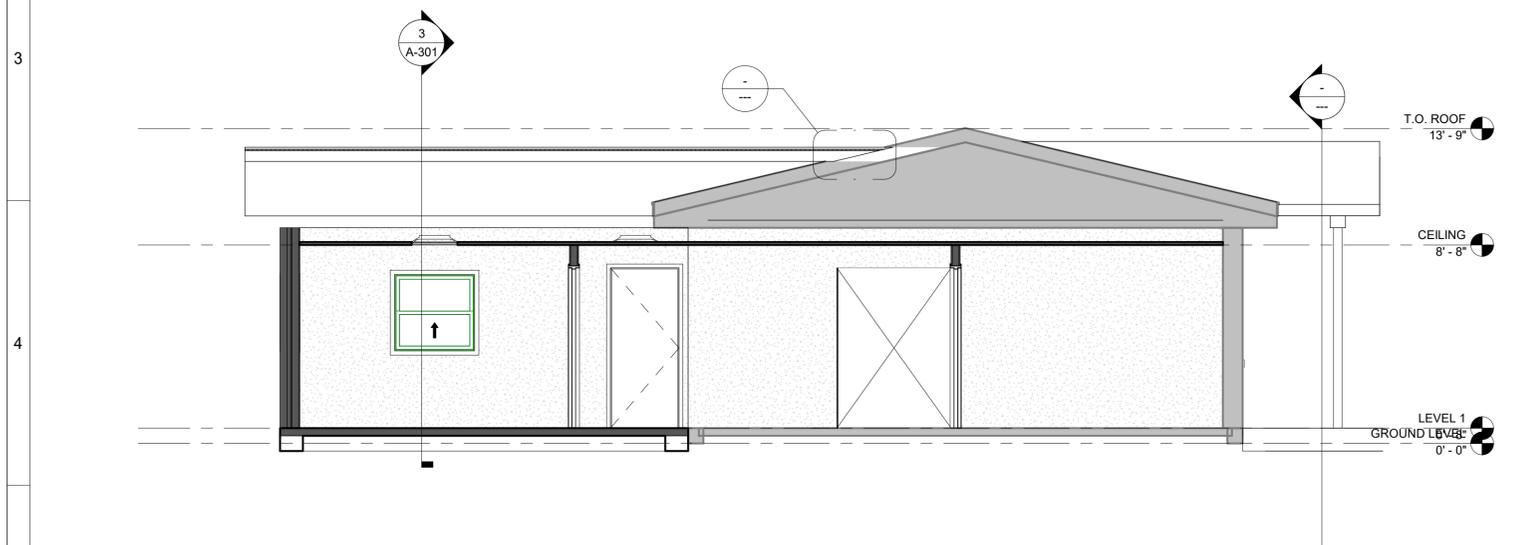
**CITY OF GEORGETOWN**  
**PUBLIC WORKS BLDG**  
125 N. KAMINSKI ST  
ARCHITECTURAL ELEVATIONS

PLATE NUMBER:  
**A-201**  
SHEET OF

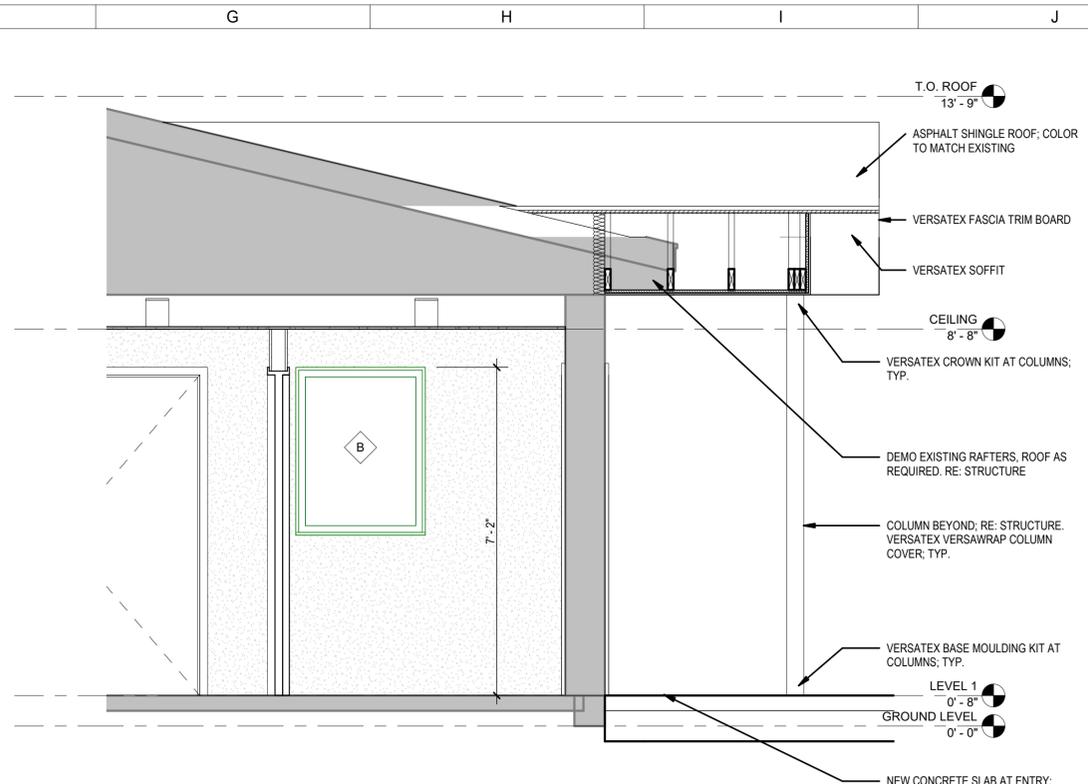
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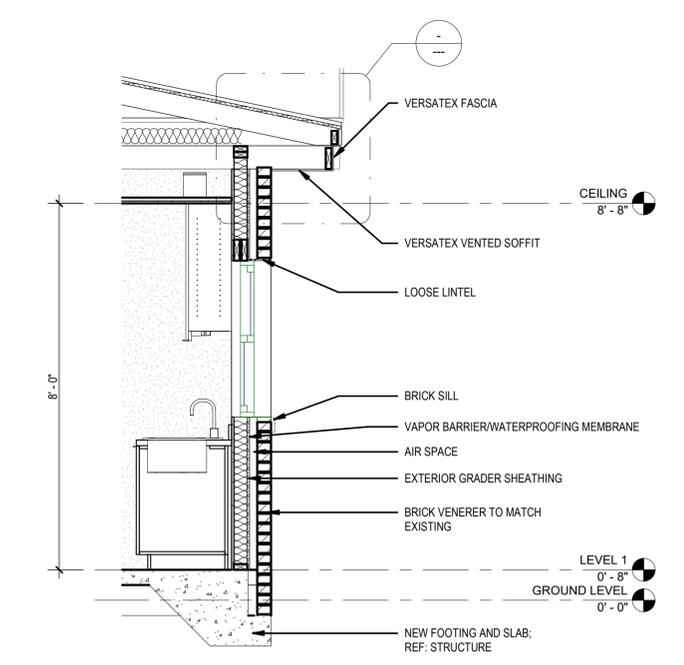
**3 BUILDING SECTION**  
1/4" = 1'-0"



**4 BUILDING SECTION**  
1/4" = 1'-0"



**1 Section 4**  
1/2" = 1'-0"



**2 Wall Section 1**  
1/2" = 1'-0"



DESIGNED BY:	PER	DATE:	JULY 14, 2021
DRAWN BY:	SCJD	CHECKED BY:	MLVGR
PROJECT CODE:	CHS1001.001	CONSTRUCTION BID SET	
ARCHITECTURAL BUILDING & WALL SECTIONS		BY:	CHKD
SCALE:	As Indicated	DESCRIPTION OF REVISION	
PLOT DATE:		DATE	
PLOT TIME:		#	

**RAYMOND**  
SINCE 1992

FILE NAME: 1363.021 PLANS AND DETAILS - ARCHITECTURAL DWG

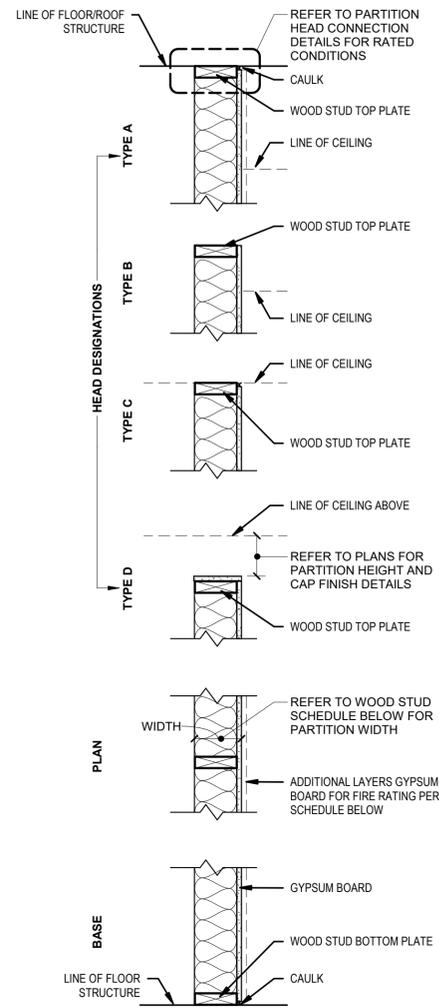
**CITY OF GEORGETOWN**  
**PUBLIC WORKS BLDG**  
125 N. KAMINSKI ST  
**ARCHITECTURAL BUILDING & WALL SECTIONS**



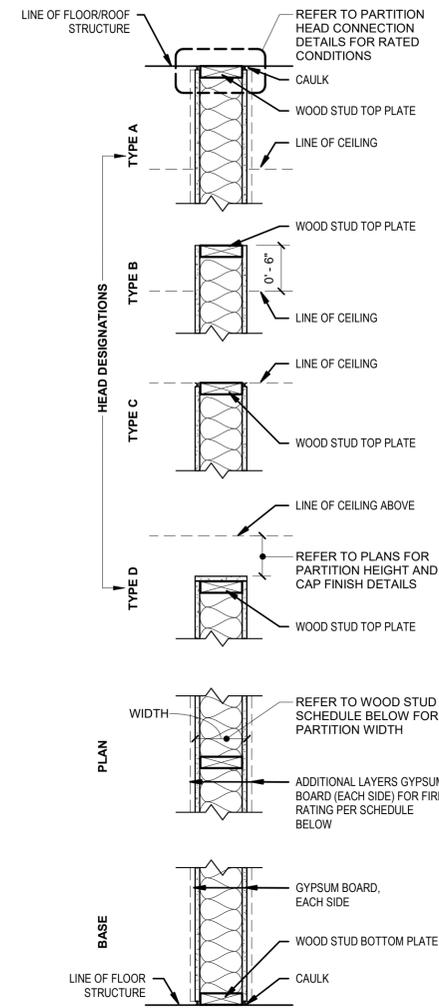
PLATE NUMBER:  
**A-301**  
SHEET OF

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PARTITION TYPE W4A1



PARTITION TYPE W4A

**INTERIOR PARTITION GENERAL NOTES**

- PARTITION TYPES DESCRIBE GENERAL REQUIREMENTS FOR PARTITIONS. REFER TO THE MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS OF APPLICABLE TESTING AGENCIES FOR SPECIFICS OF PARTITION CONSTRUCTION.
- REFER TO "PARTITION TYPE NOMENCLATURE" FOR SYMBOLS USED TO IDENTIFY ADDITIONAL REQUIREMENTS AND MODIFIERS TO BASIC PARTITION TYPES.
- "LINE OF STRUCTURE" INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.
- TYPICAL FLOOR PLAN DIMENSIONS OF PARTITIONS ARE TO FACE OF STUD OR CMU UNLESS NOTED OTHERWISE.
- WHERE A CLEAR OPENING DIMENSION IS INDICATED, THE DIMENSION IS MEASURED FACE-TO-FACE BETWEEN FINISHED SURFACES.
- REFER TO SPECIFICATIONS FOR MINIMUM STUD DESIGN CRITERIA, MAXIMUM SPACING AND ALLOWABLE LIMITING HEIGHTS DEFLECTION CRITERIA FOR GYPSUM BOARD.
- METAL STUD GAUGE (IF NOTED) AND UL TEST NUMBERS WILL VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED.
- REFER TO FLOOR PLANS FOR FIRE PROTECTION RATINGS.
- ALL RATED PARTITIONS SHALL BE LABELED ABOVE CEILING WITH LABELS PER AHJ AS REQUIRED. IBC CHAPTER 7 AT MINIMUM.
- PENETRATIONS IN RATED PARTITIONS AND CONNECTIONS OF THE PARTITIONS TO OTHER PORTIONS OF THE WORK TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED DETAILS AND IN COMPLIANCE WITH APPLICABLE TESTING AGENCY REQUIREMENTS.
- INSTALLATION OF GYPSUM BOARD, BACKER BOARD AND BASE BOARD TO CONFORM TO REQUIREMENTS FOR FIRE RATINGS AND ACOUSTICAL RATINGS.
- PROVIDE WATER RESISTANT TYPE GYPSUM BOARD AT AREAS THAT ARE NOTED IN ROOM FINISH SCHEDULE TO RECEIVE CERAMIC OR PORCELAIN TILE FINISH.
- INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT / MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT DESCRIBED IN THE DOCUMENTS. ALL BLOCKING TO BE FIRE RETARDANT TREATED.
- PARTITIONS THAT ARE REQUIRED TO EXTEND TO THE DECK ABOVE ARE TO HAVE THE GYPSUM BOARD CUT TO FIT WITHIN A 1/4" MAXIMUM TOLERANCE TO THE SHAPE OF THE DECK ABOVE. GYPSUM BOARD SHALL BE CONTINUOUSLY SEALED FOR THE FULL DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT.
- PROVIDE METAL STRAPPING @ 24" VERT. TO HOLD BATT INSULATION FOR AREAS WITHOUT GYPSUM WALLBOARD.
- GYPSUM BOARD IS TO BE CUT SO THAT THE CLEARANCE BETWEEN METALLIC ELECTRICAL OUTLET BOXES AND THE GYPSUM BOARD DOES NOT EXCEED 1/8".
- THE BOTTOM OF THE GYPSUM BOARD AT INTERIOR PARTITIONS IS TO BE 1/4" MINIMUM AND 1/2" MAXIMUM ABOVE THE FLOOR STRUCTURE AND IS TO BE SEALED FOR THE FULL DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT.
- REFER TO INTERIOR FINISH SCHEDULE FOR WALL FINISHES.
- REFER TO PARTITION TYPE MODIFIERS FOR STC RATED PARTITIONS.

**PARTITION TYPE NOMENCLATURE**

ISBAS | PARTITION TYPE MODIFIER (WHERE APPLICABLE)  
 S | SOUND ATTENUATION BLANKETS (SAB) (WHERE APPLICABLE)  
 A | PARTITION HEAD CONDITION  
 S | PARTITION STRUCTURE SIZE (SEE STUD OR CMU WIDTH SCHEDULE)  
 T | PARTITION TYPE  
 R | PARTITION RATING (WHERE APPLICABLE)

**PARTITION TYPES**

M	CONCRETE MASONRY UNIT PARTITION
G	METAL STUD PARTITION
S	SHAFTWALL PARTITION
F	METAL FURRING PARTITION
W	WOOD STUD PARTITION

**PARTITION STRUCTURE WIDTH DESIGNATOR**

#	METAL STUD	WOOD STUD	CMU
0	* 0-7/8"	--	--
1	* 1-1/2"	--	--
2	2-1/2"	* 1-1/2"	--
3	3-5/8"	2-1/2"	--
4	4"	3-1/2"	3-5/8"
6	6"	5-1/2"	5-5/8"
8	8"	7-1/4"	7-5/8"
10	10"	9-1/4"	--
12	12"	11-1/4"	11-5/8"

\* FURRING MEMBER

**PARTITION HEAD CONDITION DESIGNATOR**

A	PARTITION TO BOTTOM OF STRUCTURAL ROOF OR FLOOR DECK ABOVE
B	PARTITION TO 6" ABOVE CEILING - BRACE WALL AS NEEDED
C	PARTITION TO BOTTOM OF CEILING ABOVE
D	PARTIAL HEIGHT PARTITION - SEE PLAN FOR HEIGHT

**PARTITION TYPE MODIFIER**

1	SOUND BATT MINIMUM STC RATING - 42
2	RESILIENT CHANNEL AND SOUND BATT MINIMUM STC RATING - 50

**Georgetown**  
SOUTH CAROLINA

DATE: SEPTEMBER 17, 2021  
 PROJECT CODE: CHS1001.001  
 CHECKED BY: MLK/GR  
 DRAWN BY: SCJD  
 PER: PER  
 DESIGNED BY: PER  
 CONSTRUCTION BID SET  
 9/17/2021  
 1

BY: CHKD  
 DESCRIPTION OF REVISION  
 DATE  
 #

SCALE: 1" = 1'-0"  
 O SIZE ANSI BORDER

**RAYMOND**  
SINCE 1992  
 FILE NAME: 1363.021 PLANS AND DETAILS - ARCHITECTURAL DWG

CITY OF GEORGETOWN  
 PUBLIC WORKS BLDG  
 125 N. KAMINSKI ST

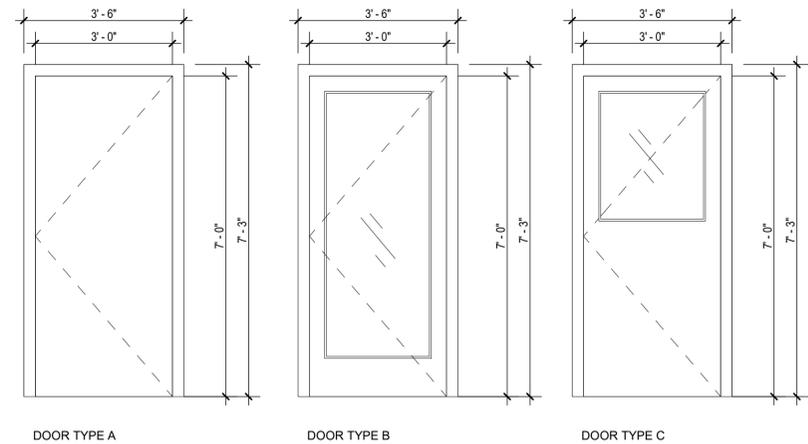
PARTITION TYPES

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**A-601**  
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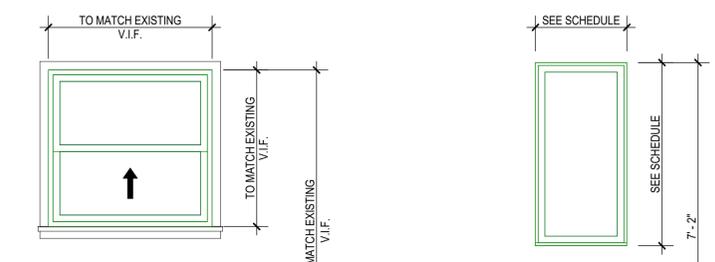


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DOOR SCHEDULE													
DOOR NO.	DOOR			FRAME		DETAILS			REMARKS				
	WIDTH	HEIGHT	THK.	TYPE	FIRE RATING	MATERIAL	HARDWARE	TYPE		MATERIAL	HEAD	JAMB	SILL
01	3'-0"	7'-0"	0'-1 3/4"	B		STAIN	5	HM	PT1	H2	J2	S4	GC TO PLEASE PERFORM EXPLORATORY DEMO AND INFORM ARCHITECT OF EXSTG. WALL CONSTRUCTION TO VERIFY HEAD/JAMB DETAILS
02	3'-0"	7'-0"	0'-1 3/4"	C		PT2	1	HM	PT1	H3	J3	S1	
03	3'-0"	7'-0"	0'-1 3/4"	A		STAIN	3	HM	PT1	H2	J2	S4	
04	3'-0"	7'-0"	0'-1 3/4"	B		STAIN	3	HM	PT1	H2	J2	S4	
05	3'-0"	7'-0"	0'-1 3/4"	A		STAIN	4	HM	PT1	H2	J2	S4	
06	3'-0"	7'-0"	0'-1 3/4"	A		STAIN	3	HM	PT1	H2	J2	S4	
07	3'-0"	7'-0"	0'-1 3/4"	A		STAIN	2	HM	PT1	H2	J2	S4	
08	3'-0"	7'-0"	0'-1 3/4"	A		STAIN	2	HM	PT1	H2	J2	S4	
09	3'-0"	7'-0"	0'-1 3/4"	A		STAIN	3	HM	PT1	H2	J2	S4	
10	3'-0"	7'-0"	0'-1 3/4"	A		STAIN	3	HM	PT1	H2	J2	S4	
11	3'-0"	7'-0"	0'-2"	EXISTING			N/A	HM	PT1	H3	J3	S4	

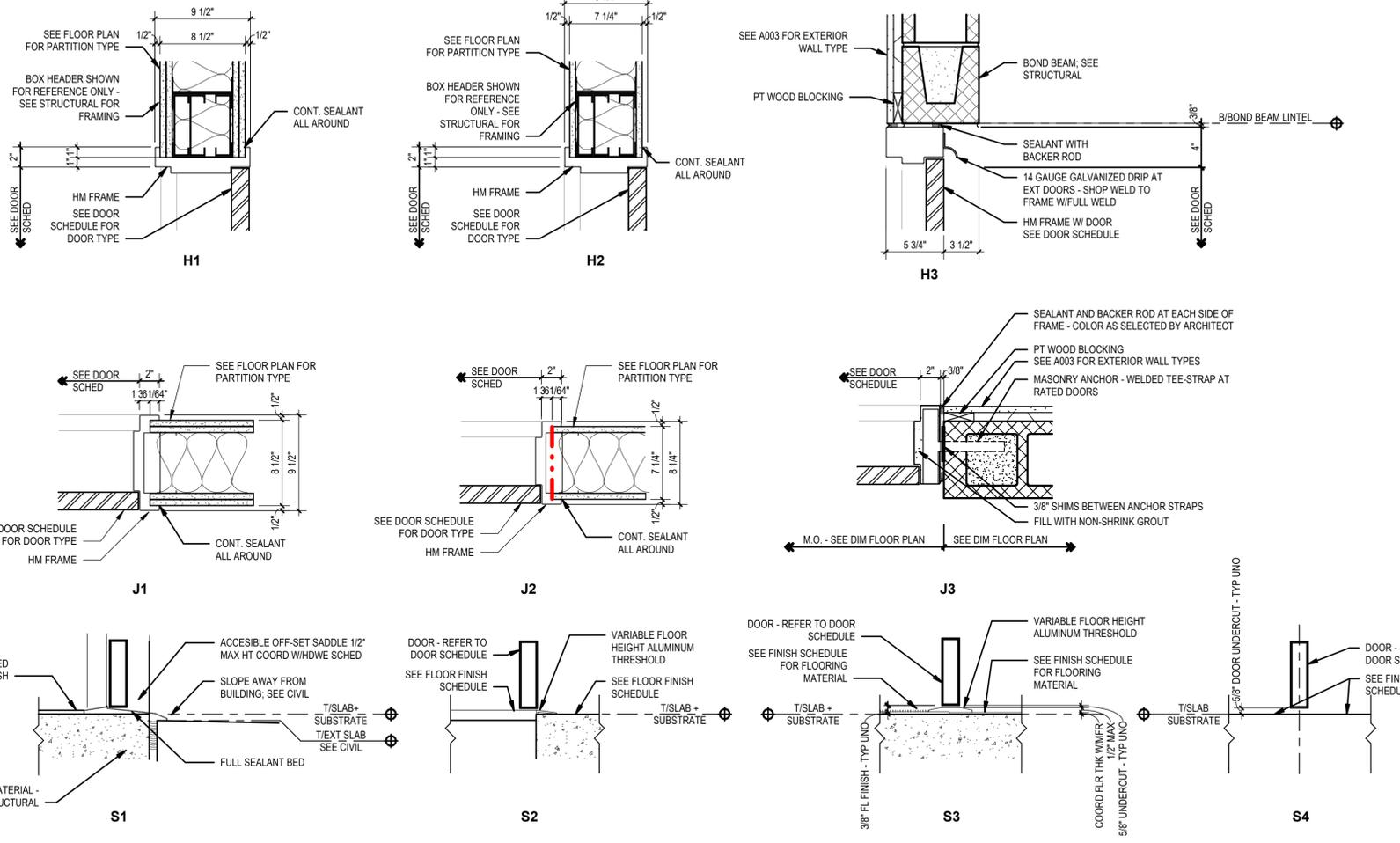


Door Types  
1/2" = 1'-0"



Window Types  
1/2" = 1'-0"

Window Schedule					
Type Mark	Height	Width	Frame Material	Frame Finish	Comments
A	3'-5"	3'-7"	WD	VNYL	DIMENSION TO MATCH EXISTING, V.I.F.
B	3'-8"	2'-10"	WD	VNYL	



INTERIORS HEAD/JAMB/SILL DETAILS  
1 1/2" = 1'-0"

HARDWARE SCHEDULE

\*FINISH TO BE SATIN CHROME; TYP.

HARDWARE No. 1	HARDWARE No. 2	HARDWARE No. 3	HARDWARE No. 4	HARDWARE No. 5
THRESHOLD HINGES CLOSER PUSH PLATE LOCKSET LOCK KICKPLATE MISC	THRESHOLD HINGES CLOSER PUSH PLATE LOCKSET LOCK KICKPLATE MISC	THRESHOLD HINGES CLOSER PUSH PLATE LOCKSET LOCK KICKPLATE MISC	THRESHOLD HINGES CLOSER PUSH PLATE LOCKSET LOCK KICKPLATE MISC	THRESHOLD HINGES CLOSER PUSH PLATE LOCKSET LOCK KICKPLATE MISC
OFF-SET STYLE 1/2" MAX HEIGHT IVES 5BB1HW STANDARD PARALLEL ARM XX XX FALCON MA SERIES ENTRY NONE WEATHER STRIPPING DOOR SWEEP	VARIABLE FLOOR HEIGHT, ALUMINUM IVES 5BB1HW STANDARD PARALLEL ARM NONE FALCON K SERIES 'DANE' FALCON MA SERIES PRIVACY/BATH MA311 NONE INDICATOR THUMBTURN LOCK "OCCUPIED/VACANT"	NONE IVES 5BB1HW NONE NONE FALCON K SERIES 'DANE' FALCON MA SERIES ENTRY/OFFICE NONE DOME STOP IVES FS436	NONE IVES 5BB1HW NONE NONE FALCON K SERIES 'DANE' FALCON MA SERIES STOREROOM NONE DOME STOP IVES FS436	NONE IVES 5BB1HW STANDARD PARALLEL ARM NONE FALCON K SERIES 'DANE' PASSAGE/CLOSET LATCH NONE NONE



DESIGNED BY:	PER	CHECKED BY:	DATE:	PROJECT CODE:	SCALE:
		Author	JULY 14, 2021	CHS1001.001	As Indicated
DRAWN BY:	BY	DATE:	DESCRIPTION OF REVISION		

CONSTRUCTION BID SET	DATE:	PROJECT CODE:	SCALE:
	JULY 14, 2021	CHS1001.001	As Indicated
9/17/2021	DATE:	DESCRIPTION OF REVISION	



CITY OF GEORGETOWN PUBLIC WORKS BLDG 125 N. KAMINSKI ST	DOOR SCHEDULE
PLATE NUMBER: <b>A-602</b>	SHEET OF

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**GENERAL STRUCTURAL NOTES:**

**GENERAL:**

- STRUCTURAL DRAWINGS & CONNECTIONS SHOWN ON ALL "S" SHEETS ARE BASED UPON ASSUMPTIONS REGARDING EXISTING STRUCTURAL FRAMING SPAN AND DIRECTION. CONTRACTOR SHALL OPEN CEILINGS AND SELECTED PORTIONS OF LOAD-BEARING WALLS TO EXPOSE EXISTING FRAMING PRIOR TO PERFORMING ANY LOAD-BEARING WALL OR COLUMN DEMOLITION OR INSTALLATION OF NEW MATERIAL. AFTER EXPOSING CEILING AND WALL FRAMING, CONTRACTOR SHALL LOCATE FUTURE STRUCTURE POSITIONS (COLUMNS, POSTS, BEAMS, ETC.) AND INFORM ENGINEER OF RECORD TO ALLOW OBSERVATION OF EXISTING FRAMING AND ANY MODIFICATIONS OF THESE DRAWINGS. SHOULD THE ENGINEER OF RECORD DEEM IT NECESSARY, NEW DRAWINGS OR DETAILS MAY BE ISSUED AT THAT TIME. LOAD PATHS FROM ROOF TO FOUNDATIONS SHALL BE MONITORED AND SHALL REMAIN SOUND.
- E CONTRACTOR TO FIELD VERIFY ALL FLOOR TO FLOOR DIMENSIONS AND ALL EXISTING PLAN DIMENSIONS, ETC., AND INFORM ENGINEER OF RECORD OF ANY DISCREPANCIES WITH DESIGN DRAWINGS OR INFORMATION NOT SHOWN ON DESIGN DRAWINGS.
- THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER DISCIPLINES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, PENETRATIONS, AND OTHER ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
- WHERE SECTION IS SHOWN AND DETAILED, OTHER SECTIONS OF SIMILAR CONDITION SHALL BE DETAILED THE SAME OR OPPOSITE HAND, WHETHER SPECIFICALLY NOTED OR NOT.
- ENGINEER'S APPROVAL MUST BE SECURED FOR ALL SUBSTITUTIONS. SUCH APPROVAL MAY ALSO BE WITHHELD AT THE SOLE DISCRETION OF THE ENGINEER.
- THE STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE INTERNATIONAL (STANDARD) BUILDING CODE, 2018 EDITION (IBC 2018) WITH 2021 SOUTH CAROLINA STATE AMENDMENTS.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.
- DESIGN LOADS USED IN THE DESIGN OF THE STRUCTURAL SYSTEMS IN THIS PROJECT ARE AS FOLLOWS:
  - DEAD LOAD:
    - BASED ON BUILDING MATERIALS
  - LIVE LOAD:
 

ROOF	20 psf
FLOOR	40 psf
  - ROOF SNOW LOAD:
 

GROUND SNOW LOAD	5 psf
------------------	-------
  - WIND DESIGN CRITERIA:
 

RISK CATEGORY	II
EXPOSURE CATEGORY	B
BASIC WIND SPEED	146 mph
INTERNAL PRESSURE	± .18 (ENCLOSED STRUCTURE)
BASIC PRESSURE	26.4 psf
  - SEISMIC DESIGN CRITERIA (USING IBC 2018):
 

SPECTRAL RESPONSE ACCELERATION:		
S <sub>s</sub> (SHORT PERIOD (0.2 SECOND))	= 0.483 g	S <sub>DS</sub> = 0.455 g
S <sub>1</sub> (LONG PERIOD (1.0 SECOND))	= 0.159 g	S <sub>D1</sub> = 0.241 g
SITE CLASSIFICATION	= CLASS D	
SEISMIC DESIGN CATEGORY	D	
RISK CATEGORY	II	
LIGHT FRAME WALLS WITH SHEAR PANELS (ALL OTHER MATERIALS):		
I	= 1.0	
R	= 2.0	
C <sub>d</sub>	= 2.0	
ANALYSIS PROCEDURE	= EQUIVALENT LATERAL FORCE	
- ALL VERTICAL ELEVATIONS ARE BASED ON THE FINISHED FLOOR ELEVATION OF THE EXISTING BUILDING.
- DESIGN BEARING PRESSURE BASED ON AN ASSUMED VALUE OF 1500 PSF PER IBC TABLE 1806.2 FOR PRESRIPTIVE SOIL BEARING PRESSURES. CONTRACTOR TO FIELD VERIFY FOR ANY NEW FOUNDATIONS.

**EPOXY ANCHORS:**

- EPOXY GROUT SHALL BE HILTI HY 200 CARTRIDGE SYSTEM AT CAST-IN-PLACE CONCRETE AND SOLID MASONRY, AND HY270 CARTRIDGE SYSTEM AT BRICK OR HOLLOW CONCRETE MASONRY UNITS OR APPROVED ALTERNATE UON. EMBEDMENT SHALL BE 12 BAR DIAMETERS MINIMUM UON. HOLES SHALL BE BRUSHED OUT WITH A BOTTLE BRUSH AND THEN BLOWN OUT WITH AIR USING A COMPRESSOR WITH AN OIL TRAP. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. USE OF SCREEN TUBE IS REQUIRED AT ALL BRICK MASONRY OR HOLLOW CONCRETE MASONRY UNITS.

**CAST-IN-PLACE CONCRETE:**

- CAST-IN-PLACE CONCRETE FOR THIS PROJECT SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND COMMENTARY" ACI 318-19 AND ACI 318R-19.
- REFERENCE PROJECT SPECIFICATION SECTION 033000 "CAST-IN-PLACE CONCRETE".
- CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:
 

WEIGHT	STRENGTH @ 28 DAYS	AIR CONTENT	MAX. W/C RATIO
145 pcf	4000 psi	N/A	NA

(SEE SPECIFICATION SECTION 033000 FOR ADDITIONAL REQUIREMENTS)
- AN INTENTIONALLY ROUGHENED SURFACE MAY BE USED INSTEAD OF A CONTINUOUS SHEAR KEY AT ALL HORIZONTAL CONSTRUCTION JOINTS.
- ALL EXPOSED CONCRETE EDGES SHALL HAVE 3/4" CHAMFER, WHETHER SPECIFICALLY NOTED OR NOT.
- TYPICAL SLAB FINISH SHALL BE BROOM FINISH FOR EXTERIOR SLABS AND INTERIOR WET SLABS AND STEEL TROWEL FINISH FOR INTERIOR DRY SLABS.
- ALL ANCHOR RODS SHALL BE BLACK OR HOT DIPPED GALVANIZED AS NOTED ON DESIGN DRAWINGS.
- CONCRETE FORM WORK SHALL COMPLY WITH ACI 347, LATEST EDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FORMWORK.
- DURING AND IMMEDIATELY AFTER PLACING, CONCRETE SHALL BE THOROUGHLY COMPACTED BY SPADING OR MECHANICAL VIBRATING TO PROVIDE DENSE CONCRETE FREE OF HONEY COMBING.
- DIRECTLY AFTER FORMS HAVE BEEN REMOVED, ALL EXPOSED TIE WIRES AND STAPLED ENDS SHALL BE REMOVED FROM CONCRETE SURFACES TO BE EXPOSED. CUT TIES FLUSH WITH FINISHED SURFACES FOR ALL OTHER CONCRETE. RUB SMOOTH OR CUT OFF FINISH AND ROUGH PLACES. REMOVE ALL LOOSE CONCRETE AND OTHER IRREGULARITIES. PATCH AND FILL VOIDS WITH BONDING AGENT AS REQUIRED.

**CONCRETE REINFORCEMENT:**

- REINFORCING STEEL SHALL CONFORM TO ASTM A615 SUPPLEMENT SI, GRADE 60, OF DOMESTIC MANUFACTURER.
- WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. WELDED WIRE REINFORCEMENT SHALL BE SUPPLIED IN FLAT SHEETS ONLY. LAP 9" MINIMUM.
- REINFORCEMENT SHALL BE FABRICATED TO SHAPES AND DIMENSIONS SHOWN AND SHALL CONFORM TO THE REQUIREMENTS OF CRSI AND ACI 318. REINFORCEMENT SHALL BE COLD BENT UNLESS OTHERWISE AUTHORIZED. BENDING MAY BE ACCOMPLISHED IN THE FIELD OR AT THE MILL. BARS SHALL NOT BE BENT AFTER EMBEDDED IN CONCRETE.
- REINFORCEMENT SHALL BE FREE FROM LOOSE RUST AND SCALE, DIRT, OIL, OR OTHER DELETERIOUS COATING THAT COULD REDUCE BOND WITH THE CONCRETE.
- NO SPLICES OF REINFORCEMENT SHALL BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED. MAKE BARS CONTINUOUS AROUND CORNERS WITH CORNER BARS. WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS SHALL BE CLASS "B" TENSION LAPS.
- TENSION AND COMPRESSION REINFORCEMENT SPLICES IN CONCRETE SHALL BE MADE AS FOLLOWS:
 

#4 BARS	- 28"
#5 BARS	- 35"
#6 BARS	- 46"
#7 BARS	- 63"
- WHERE HOOKS ARE SHOWN, PROVIDE STANDARD 90° HOOKS IN ACCORDANCE WITH CRSI AND ACI 318, UNLESS NOTED OTHERWISE.
- WHERE REQUIRED, PROVIDE DOWELS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING FROM FOUNDATION. DOWELS SHALL HAVE STANDARD 90° HOOKS.
- MINIMUM CONCRETE REINFORCING COVER REQUIREMENTS:
 

	CAST-IN-PLACE CONCRETE COVER
a. CONCRETE CAST AGAINST EARTH:	3"
b. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:	
WALLS, SLABS:	
#6 BAR AND LARGER	2"
#5 BAR AND SMALLER	1 1/2"
c. FORMED CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
WALLS, SLABS:	
#11 BAR AND SMALLER	3/4"
- ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES SHALL BE PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.
- DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL-2004", PUBLICATION SP-66, ACI 318, AND ACI 315, OR LATEST EDITIONS.
- PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AT POSITIONS SHOWN ON PLANS.

**NEW WOOD FRAMING:**

- ALL WOOD HAS BEEN DESIGNED ACCORDING TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD STRUCTURES, 2018 EDITION.
- ALL WOOD SHALL BE CONNECTED USING PRE-MANUFACTURED ATTACHMENTS AS SHOWN PROVIDING EQUAL OR GREATER STRENGTH THAN THE REFERENCE PRODUCT INDICATED IN THESE DRAWINGS.
- TYPICAL WALL STUDS SHALL BE 2x4 AT 16" ON CENTER ATTACHED TO TOP AND BOTTOM PLATES WITH SIMPSON A34 (OR EQUAL) GALVANIZED PLATE ANGLES.
- CLIPS, CONNECTIONS, HANGERS, HOLD-DOWNS, ETC. SHOWN ON THESE DRAWINGS ARE SIMPSON STRONG-TIE CONNECTORS, UON. FASTENERS OF OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THE LOAD VALUES OF THE SUBSTITUTED FASTENER FOR GROUP II WOOD SPECIES EQUALS OR EXCEEDS THE SPECIFIED FASTENER. ALL THREADED ROD SPECIFIED FOR SIMPSON STRONG-TIE CONNECTORS SHALL BE A307 MINIMUM.
- NAILING OF ALL MEMBERS SHALL BE IN ACCORDANCE WITH THE BUILDING CODE. SEE CODE FOR TABLE.
- AT OPENINGS 6' OR LESS PROVIDE ONE STUD UNDER HEADER. AT OPENINGS OVER 6' PROVIDE 2 STUDS UNDER HEADER. STUDS FULL HEIGHT EACH SIDE OF EXTERIOR OPENINGS SHALL EQUAL ONE HALF THE NUMBER OF STUDS INTERRUPTED BY THE OPENING ROUNDED UP (I.E., IF 5 STUDS ARE INTERRUPTED BY THE OPENING PROVIDE 3 FULL HEIGHT STUDS EACH SIDE OF THE OPENING IN ADDITION TO THE STUDS UNDER THE HEADER).
- AT OPENINGS, PROVIDE 1-LSTA12 SIMPSON STRAP TO STUDS EACH END OF HEADERS. PROVIDE 2 HEADER STRAPS AT OPENINGS 6' AND GREATER. MOVE REQUIRED (SEE SCHED) FLOOR TO FLOOR STRAPS BENEATH OPENING TO EACH SIDE OF OPENING (ONE HALF EACH SIDE). ALSO, PROVIDE LTT20 FOUNDATION HOLD DOWN TO STUDS EACH SIDE OF OPENINGS 6' AND GREATER.
- ALL DOUBLE HEADERS SHALL BE NAILED TOGETHER WITH 16d NAILS STAGGERED AT 16" ON CENTERS 2" FROM TOP AND BOTTOM. HEADERS SHALL BE 2-2x12, UON.
- HOLES AND NOTCHES MUST BE APPROVED BY THE ENGINEER. IF APPROVED THE NOTCHES ON THE ENDS OF JOISTS SHALL NOT EXCEED ONE-FOURTH THE DEPTH. HOLES BORED FOR PIPE OR CABLE SHALL NOT BE WITHIN THE TOP OR BOTTOM THIRD OF THE JOIST DEPTH AND THE DIAMETER OF SUCH HOLE SHALL NOT EXCEED ONE-THIRD THE JOIST DEPTH NOTCHES FOR PIPES IN THE TOP OR BOTTOM OF JOISTS SHALL NOT EXCEED ONE-SIXTH THE JOIST DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE ONE-THIRD OF THE SPAN.
- STRESS GRADE: SOUTHERN PINE NO. 2 OR ENGINEER APPROVED EQUAL. ALL DESIGN VALUES ARE UNDER NORMAL LOADING AND IN DRY CONDITIONS OF SERVICE.
- PRESSURE-TREAT LUMBER IN ACCORDANCE WITH THE MANUAL OF RECOMMENDED PRACTICE OF THE AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA).
- ALL FASTENERS AND NAILS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE MADE OF TYPE 304 OR TYPE 316 STAINLESS STEEL UNLESS THE LUMBER IS TREATED WITH CCA-C OR SBX (DOT), BUT NOT SBX (DOT) WITH SODIUM SILICATE (NaS O ).
- POST BASE AND CAPS FOR 4x4 AND 6x6 POST SHALL BE SIMPSON CB SERIES AT BASE AND CC SERIES AT CAP.
- INTERIOR POSTS SUPPORTING BEAMS OR HEADERS SHALL BE CONTINUOUSLY SUPPORTED TO THE GROUND. PROVIDE POSTS OR BLOCKING WITHIN FLOOR TRUSS SYSTEM AS REQUIRED.
- JOIST HANGERS SHALL BE SIMPSON SERIES LUS, UON.

**SUPPLEMENTARY NOTES**

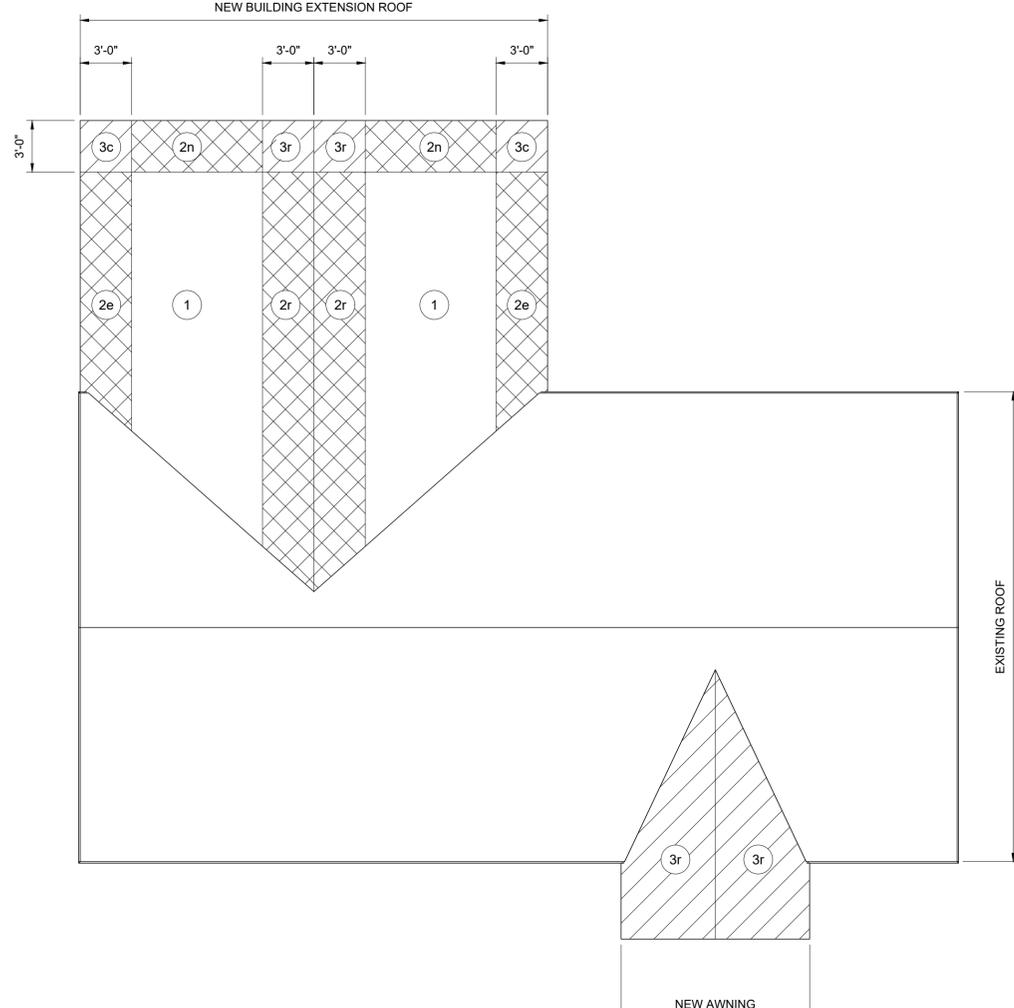
- RAYMOND ENGINEERING OR ANY OF IT'S EMPLOYEES SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES OR SEQUENCES FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR OR ANY OTHER PERSONS PERFORMING THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- GENERAL CONTRACTOR MUST REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO ARCHITECT/ENGINEER. SUBMITTALS WHICH DO NOT CONTAIN THE CONTRACTOR'S SHOP DRAWING STAMP OR HAVE BEEN MERELY "RUBBER STAMPED" SHALL BE RETURNED WITHOUT REVIEW.
- 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. SHOP DRAWING SUBMITTALS SHALL ONLY BE CHECKED FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS.

**EXISTING FOUNDATION REPAIR NOTES**

- CONTRACTOR SHALL ENGAGE A SPECIALTY FOUNDATION REPAIR CONTRACTOR TO DESIGN AND INSTALL A HELICAL ANCHOR REPAIR SYSTEM TO ADDRESS THE SETTLEMENT ISSUES THAT THE EXISTING CONCRETE GRADE SLAB IS NOW EXPERIENCING. THE FOUNDATION FIRM SHALL BE MOUNT VALLEY FOUNDATION SERVICES OR ANOTHER FIRM APPROVED BY THE CITY OF GEORGETOWN.
- THE HELICAL ANCHORS SHALL BE INSTALLED ALONG THE PERIMETER AND IN THE INTERIOR OF THE SLAB AS NECESSARY TO ADDRESS THE SETTLEMENT ISSUES. THE HELICAL ANCHOR INSTALLATION SHALL BE COMPLETED PRIOR TO COMMENCING CONSTRUCTION OF THE NEW BUILDING ADDITIONS.
- ALL ANCHORS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A-153.
- ANCHOR INSTALLATION SHALL BE IN ACCORDANCE WITH ALL OSHA, STATE AND LOCAL SAFETY REQUIREMENTS.

DATE: 11/10/2020	DESIGNED BY: JUS	CHECKED BY: JUS	PROJECT CODE: CHS 001.100	SCALE: As Indicated	FILE NAME: 1303.001 PLANS AND DETAILS - ARCHITECTURAL.DWG
BY: JUS	BY: JUS	BY: JUS	BY: JUS	BY: JUS	BY: JUS
DESCRIPTION OF REVISION:					
DATE:					
#:					
<b>RAYMOND ENGINEERING</b>					
<b>CITY OF GEORGETOWN</b>			<b>STRUCTURAL GENERAL NOTES</b>		
<b>PUBLIC WORKS BUILDING</b>			<b>STRUCTURAL GENERAL NOTES</b>		
PLATE NUMBER: <b>S-001</b>					
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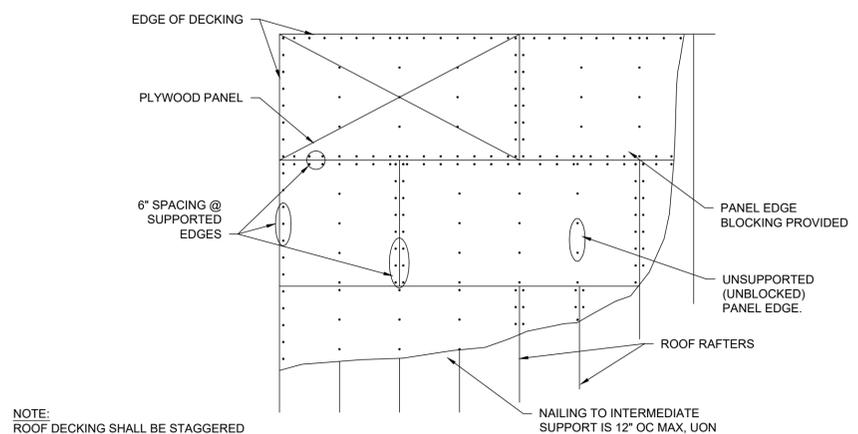


COMPONENTS AND CLADDING WIND PRESSURES (UNFACTORED)			
COMPONENT AREA	BUILDING EXTENSION ROOF: h = 11.67' @ = 12'		
	ROOF ZONES		
	3r	2n, 2r, 3e	1 & 2e
10 SF	-99.8 / +18.0	-84.05 / +18.0	-57.6 / +18.0
20 SF	-86.8 / +16.6	-72.1 / +16.6	-57.6 / +16.6
50 SF	-66.8 / +14.0	-66.8 / +14.0	-33.8 / +14.0

BASIC WIND SPEED (V ULT)= 146 MPH  
 RISK CATEGORY II  
 EXPOSURE CATEGORY B  
 ENCLOSURE CLASSIFICATION - ENCLOSED STRUCTURE

COMPONENTS AND CLADDING WIND PRESSURES (UNFACTORED)	
COMPONENT AREA	AWNING: h = 11.67' @ = 12'
	ROOF ZONES
	3r
10 SF	-99.8 / +18.0
20 SF	-86.8 / +16.6
50 SF	-66.8 / +14.0

BASIC WIND SPEED (V ULT)= 146 MPH  
 RISK CATEGORY II  
 EXPOSURE CATEGORY B  
 ENCLOSURE CLASSIFICATION - OVERHANG



NOTE:  
 ROOF DECKING SHALL BE STAGGERED AS SHOWN WITH LONG DIRECTION OF PLYWOOD TRANSVERSE TO RAFTERS OR TRUSSES

**NAILING REQUIREMENTS FOR ROOF DECK & WALL PANELS**

**CONTRACTOR SUPPLIED TESTING AND INSPECTIONS**

SOILS INSPECTION AND TESTING			
TYPE	CONTINUOUS SPECIAL INSECTION	PERIODIC SPECIAL INSECTION	
1 VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X	
2 VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACH PROPER MATERIALS		X	
3 PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X	
4 VERIFY THE USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X		
5 PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X	

CONCRETE INSPECTIONS				
TYPE	CONTINUOUS SPECIAL INSECTION	PERIODIC SPECIAL INSECTION	REFERENCED STANDARD	IBC REFERENCE
1 INSPECT REINFORCEMENT AND VERIFY PLACEMENT		X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2 INSPECT ANCHORS CAST IN CONCRETE			ACI 318: 17.8.2	
3 INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS		X		
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		ACI 318: 17.8.2.4	
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A		X	ACI 318: 17.8.2	
4 VERIFY USE OR REQUIRED MIX DESIGN		X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
5 PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR-CONTENT TESTS AND DETERMINE THE TEMPERATURE OF CONCRETE.	X		ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.1
6 INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		ACI 318: 26.5	1908.6, 1908.7, 1908.8
7 VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUE.		X	ACI 318: 26.5.3-26.5.5	19011.9
8 INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X	ACI 318: 26.11.1(b)	

DATE	DESCRIPTION OF REVISION
07/13/2021	

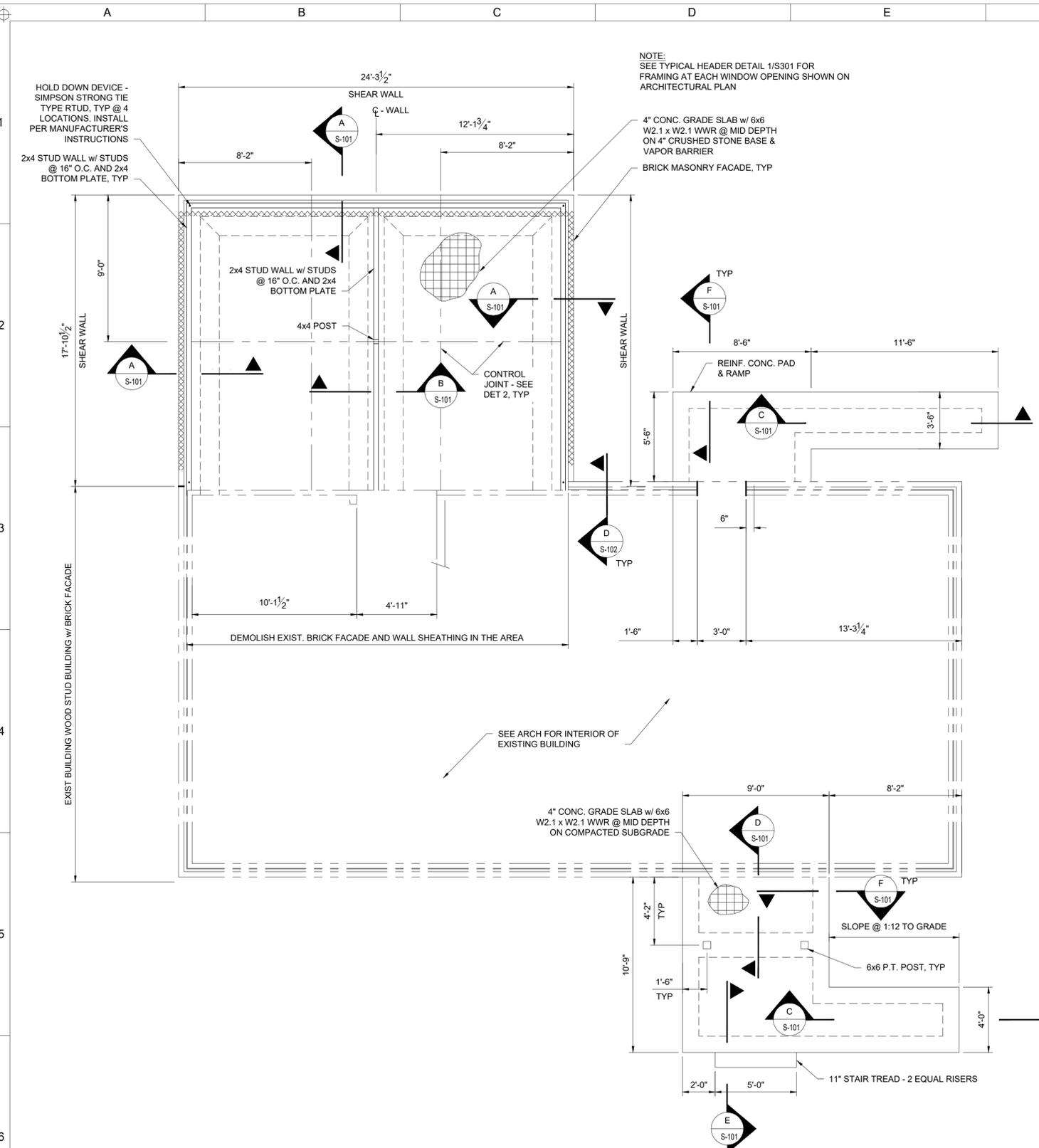
DESIGNED BY: JJS	CHECKED BY: JJS	DATE: 11 JUNE 2021
DRAWN BY: JJS	PROJECT CODE: CHS 001.100	

**RAYMOND ENGINEERING**  
 WIND LOAD DIAGRAMS AND NAILING REQUIREMENTS  
 SCALE: AS INDICATED  
 D SIZE ANSI BORDER  
 FILE NAME: 1303.001 PLANS AND DETAILS - ARCHITECTURAL.DWG

**CITY OF GEORGETOWN**  
 PUBLIC WORKS BUILDING  
 WIND LOAD DIAGRAMS, NAILING & INSPECTION REQUIREMENTS

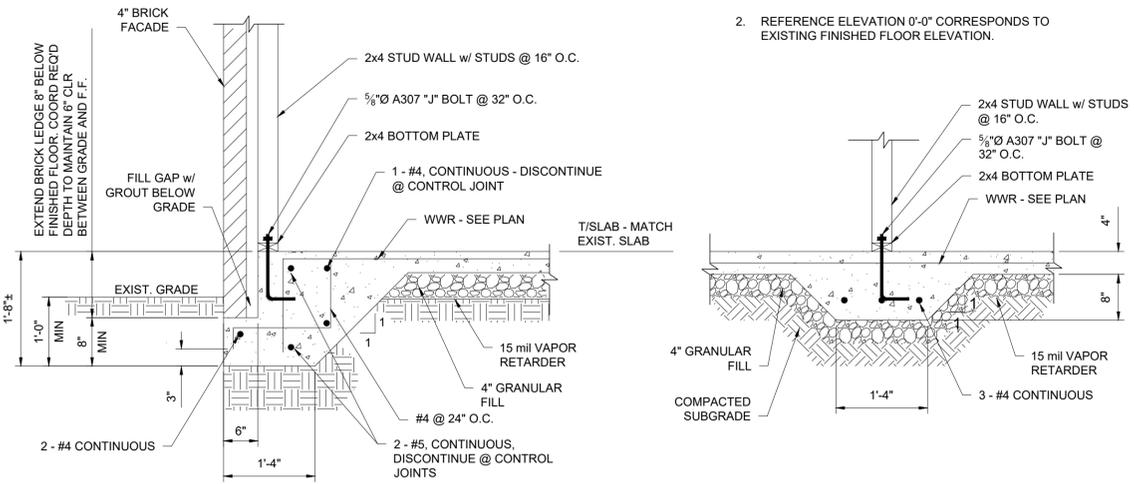
PLATE NUMBER:  
**S-002**  
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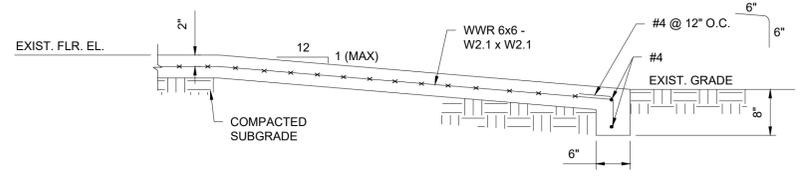


**1 PLAN - FOUNDATION & GRADE SLAB**  
1/4" = 1'-0"

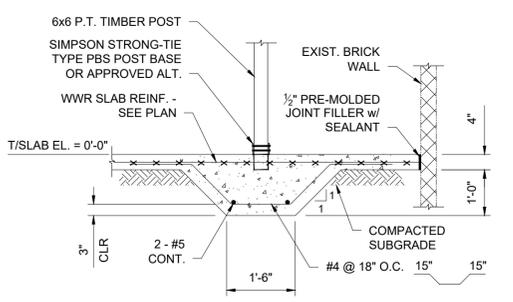
NOTE:  
SEE TYPICAL HEADER DETAIL 1/S301 FOR FRAMING AT EACH WINDOW OPENING SHOWN ON ARCHITECTURAL PLAN



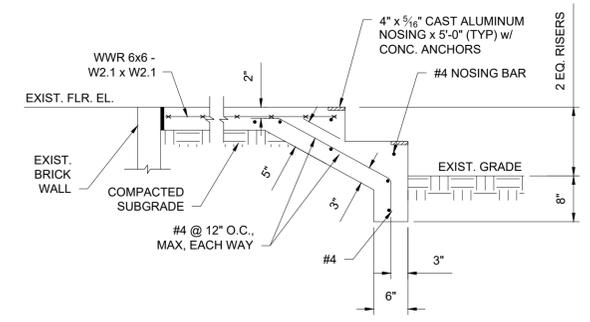
**A SECTION** 3/4" = 1'-0"  
**B SECTION** 3/4" = 1'-0"



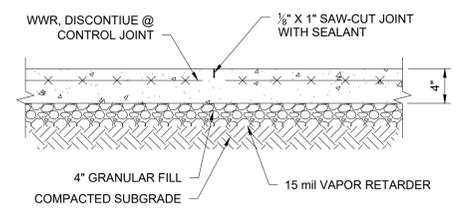
**C SECTION** 1/2" = 1'-0"



**D SECTION** 1/2" = 1'-0"



**E SECTION** 3/4" = 1'-0"



NOTES:  
1. SLAB SHALL BE SAWN AS SOON AS THE CONCRETE WILL SAFELY SUPPORT MEN AND EQUIPMENT.  
2. FILL JOINT WITH SEALANT AFTER SLAB HAS BEEN CURED.

**2 CONTROL JOINT DETAIL**  
3/4" = 1'-0"

NOTES:  
1. SEE DRAWING S-001 FOR STRUCTURAL GENERAL NOTES  
2. REFERENCE ELEVATION 0'-0" CORRESPONDS TO EXISTING FINISHED FLOOR ELEVATION.

DATE	11 JUNE 2021
PROJECT CODE	CHS 001.100
DESIGNED BY	JJS
CHECKED BY	JJS
DRAWN BY	JJS
SCALE	As Indicated
DATE	
DESCRIPTION OF REVISION	
BY	
CHKD	

DATE	11 JUNE 2021
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CHECKED BY	JJS
DRAWN BY	JJS
SCALE	As Indicated
DATE	
DESCRIPTION OF REVISION	
BY	
CHKD	

**FOUNDATION & GRADE SLAB PLAN, SECTIONS & DETAILS**

**RAYMOND ENGINEERING**

FILE NAME: 1383.001 PLANS AND DETAILS - ARCHITECTURAL.DWG

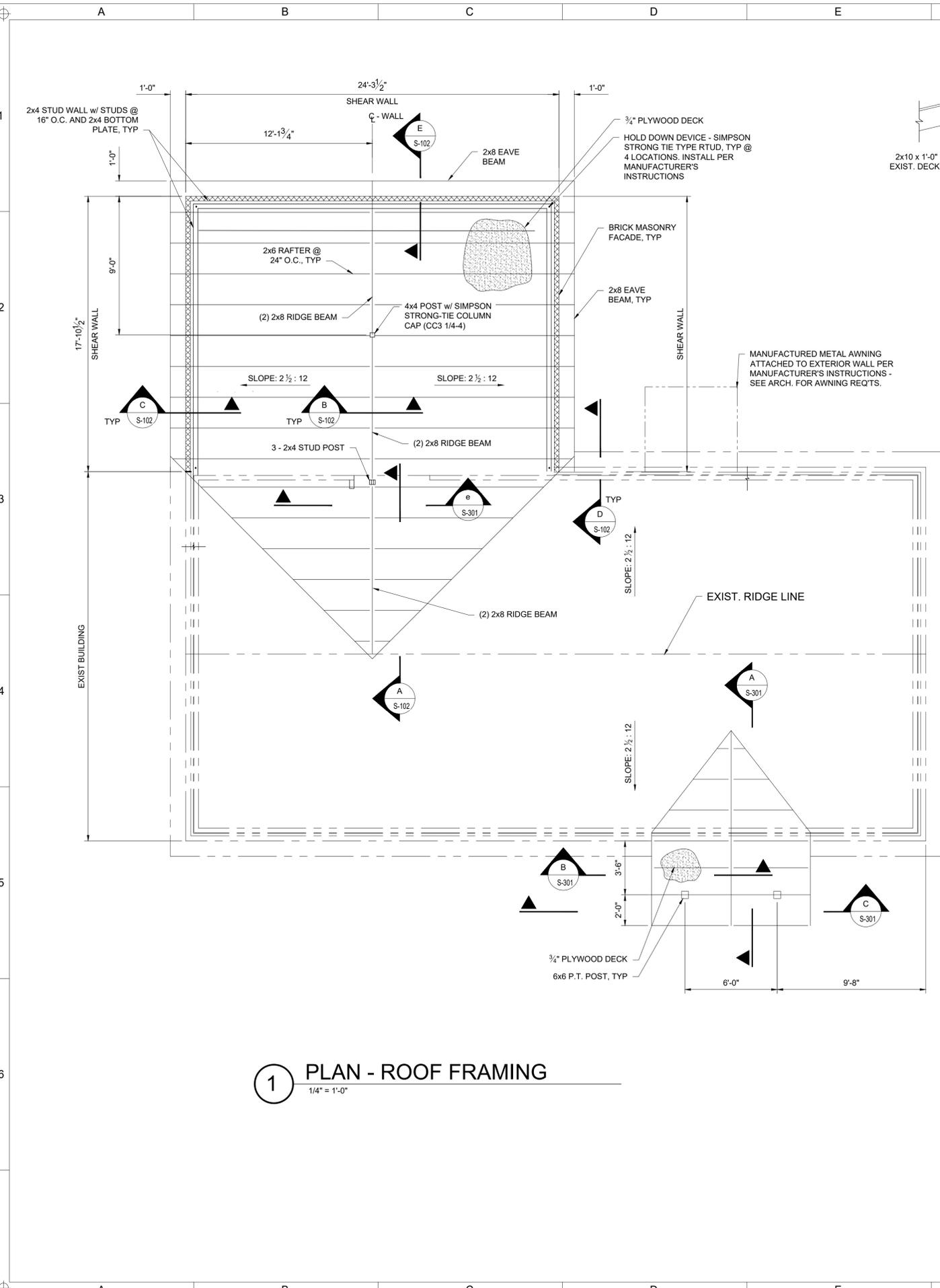
**CITY OF GEORGETOWN PUBLIC WORKS BUILDING**

**FOUNDATION & GRADE SLAB PLAN, SECTIONS & DETAILS**

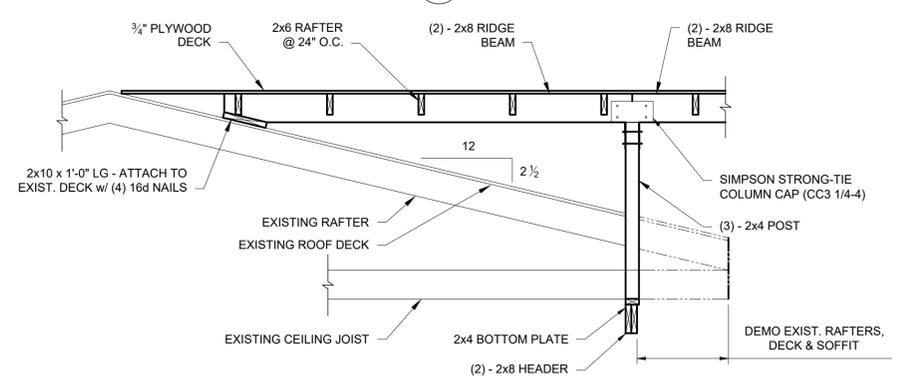
PLATE NUMBER:  
**S-101**

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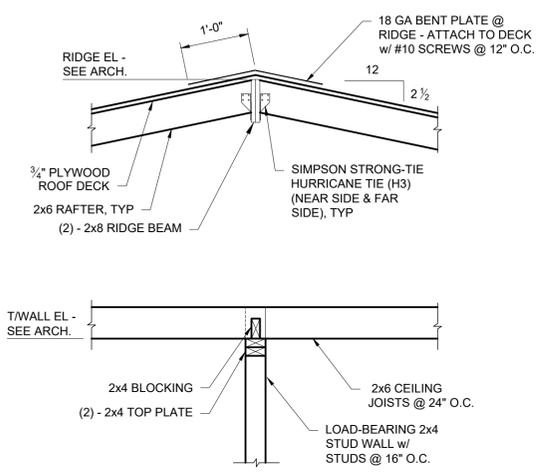
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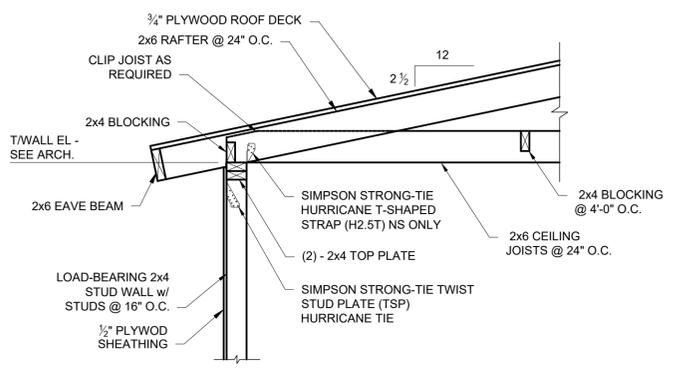
**1 PLAN - ROOF FRAMING**  
1/4" = 1'-0"



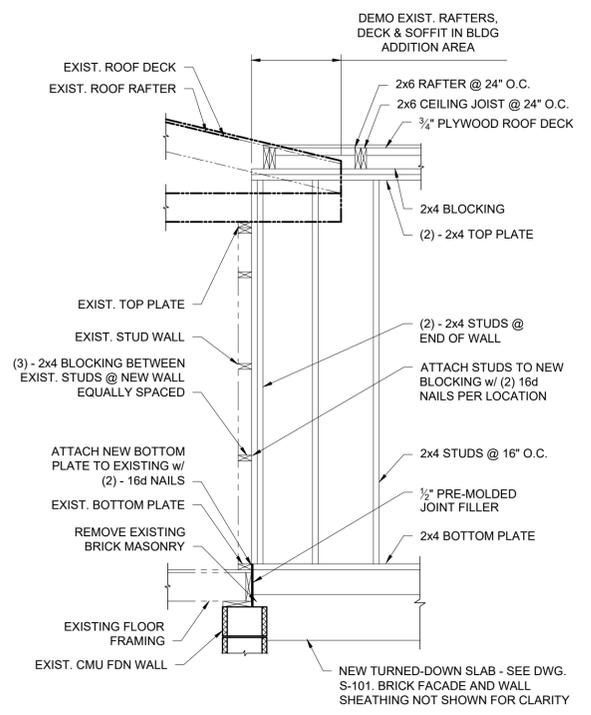
**A SECTION**  
1/2" = 1'-0"



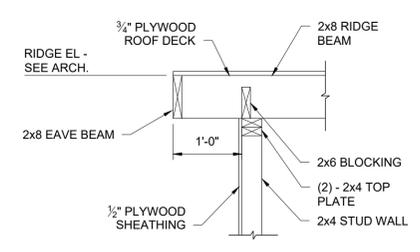
**B SECTION**  
3/4" = 1'-0"



**C SECTION**  
3/4" = 1'-0"



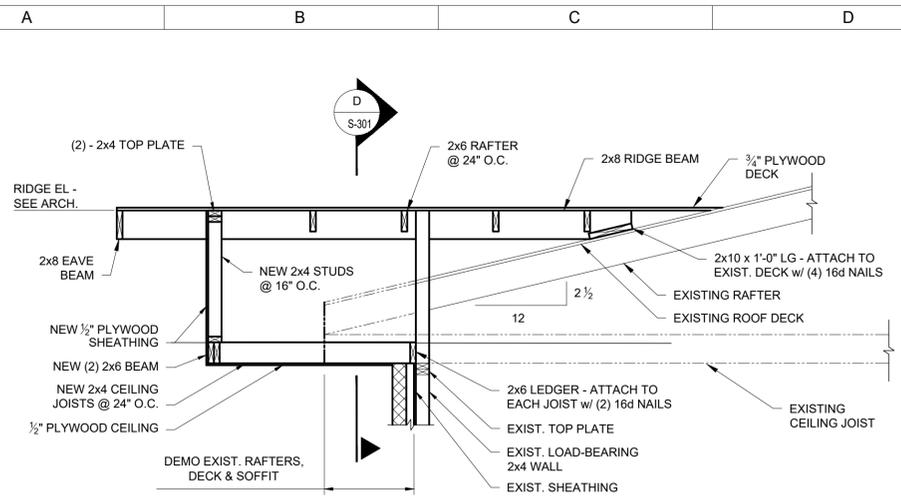
**D SECTION**  
1/2" = 1'-0"



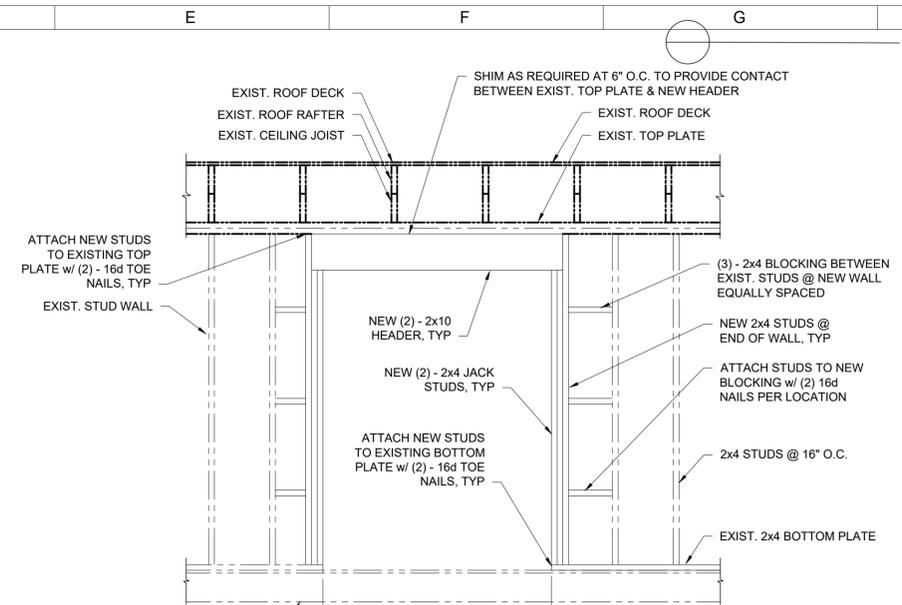
**E SECTION**  
3/4" = 1'-0"

- NOTES:**
- SEE DRAWING S-001 FOR STRUCTURAL GENERAL NOTES
  - REFERENCE ELEVATION 0'-0" CORRESPONDS TO EXISTING FINISHED FLOOR ELEVATION.

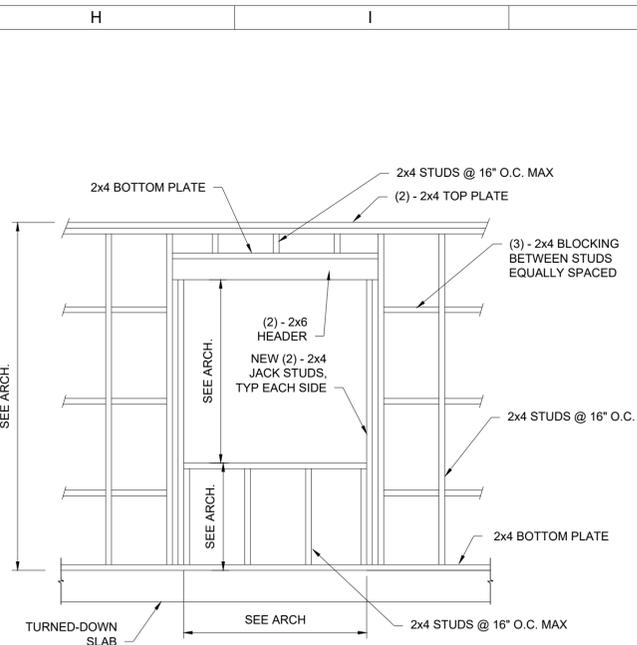
DATE: 11 JUNE 2021	PROJECT CODE: CHS 001.100	ROOF FRAMING PLANS & SECTIONS
DESIGNED BY: JJS	CHECKED BY: JJS	SCALE: As Indicated
DRAWN BY: JJS	DATE: 07/19/2021	DESCRIPTION OF REVISION
CITY OF GEORGETOWN PUBLIC WORKS BUILDING		RAYMOND ENGINEERING
ROOF FRAMING PLANS & SECTIONS		PLATE NUMBER: <b>S-102</b>
SHEET OF		



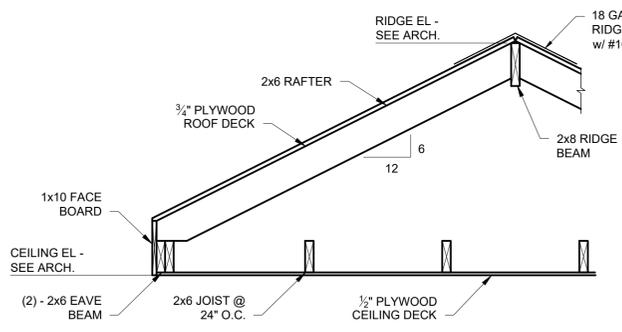
**A SECTION**  
1/2" = 1'-0"



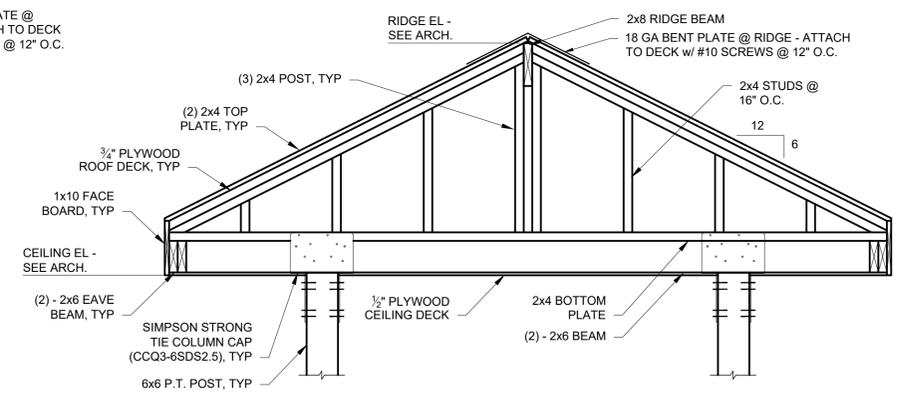
**E SECTION**  
1/2" = 1'-0"



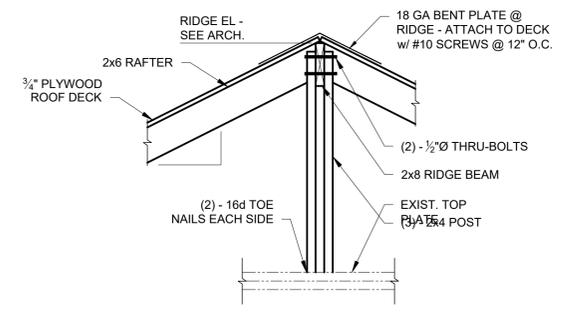
**1 TYPICAL WINDOW HEADER DETAIL**  
1/2" = 1'-0"



**B SECTION**  
3/4" = 1'-0"



**C SECTION**  
3/4" = 1'-0"



**D SECTION**  
3/4" = 1'-0"

DATE: 11 JUNE 2021	PROJECT CODE: CHS 001.100	SCALE: As Indicated
DESIGNED BY: JJS	CHECKED BY: JJS	PLOT DATE: PLOT TIME:
DRAWN BY: JJS	DATE: 07/13/2021	DESCRIPTION OF REVISION:
<p><b>RAYMOND ENGINEERING</b></p> <p>1383 001 PLANS AND DETAILS - ARCHITECTURAL/DWG</p>		
<p><b>CITY OF GEORGETOWN</b></p> <p><b>PUBLIC WORKS BUILDING</b></p> <p><b>ROOF FRAMING SECTIONS</b></p>		
<p>PLATE NUMBER: <b>S-301</b></p> <p>SHEET OF</p>		

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## MECHANICAL SPECIFICATION NOTES

- ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL MECHANICAL CODE, THE 2018 INTERNATIONAL BUILDING CODE, THE 2009 INTERNATIONAL ENERGY CONSERVATION CODE, NFPA 90A, 96, 101, UNDERWRITERS LABORATORIES (OR ETI) AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- IF ANY OF THE GOVERNING CODES ARE UPDATED, CHANGED, AND/OR MODIFIED AFTER THE SUBMITAL OF THE DRAWINGS TO THE OWNER AND/OR ARCHITECT AND PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THEN THE DRAWINGS MUST BE RESUBMITTED TO THE ENGINEER FOR REVIEW, REEXAMINATION AND/OR REEVALUATION.
- CEILING RETURN AND SUPPLY AIR GRILLES AND EXHAUST AIR GRILLES PER OWNER SELECTION, IF NOT SPECIFIED IN THESE DRAWINGS.
- ADJUST AND BALANCE TO AIR FLOWS AS SHOWN ON PLAN AS ALL DIFFUSERS/ FANS/INTAKES/VENTS SHOULD BE BALANCED TO THE INDICATED AIRFLOW.
- PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCTWORK SIZES AND LOCATIONS, EQUIPMENT, AND ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK, AND SHALL REPORT ANY DEVIATIONS TO THE ENGINEER.
- SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: ALL EQUIPMENT SCHEDULED AND SPECIFIED ON THE DRAWINGS, DUCTWORK DRAWN TO 1/4" SCALE OR THE SCALE SHOWN ON THE DRAWINGS, REFRIGERANT PIPING AND CONTROL WIRING SCHEMATICS CERTIFIED BY THE AIR CONDITIONING EQUIPMENT MANUFACTURER. FAILURE TO SUBMIT REFRIGERANT PIPING DRAWINGS SHALL BE CAUSE FOR REJECTION OF THE ENTIRE SUBMITTAL. LONG LINE REFRIGERANT PIPING APPLICATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT SPLIT SYSTEM LONG-LINE APPLICATION GUIDELINE.
- ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- ALL HVAC COMPRESSORS SHALL HAVE EXTENDED 5-YEAR MANUFACTURER'S WARRANTY.
- FOR EXACT LOCATION(S) OF OUTDOOR AIR CONDITIONING UNITS, SEE ARCHITECTURAL DRAWINGS.
- PORTIONS OF DUCTWORK AND PIPE INSULATION VISIBLE THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- UNLESS SPECIFIED OTHERWISE, MOUNT THERMOSTATS AND SENSORS 4'-0" AFF. PROVIDE CLEAR LOCKING GUARD ASSEMBLIES FOR ALL PUBLIC AREA THERMOSTATS. COORDINATE THERMOSTAT LOCATIONS WITH OTHER TRADES.
- ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE OWNER TO SUIT THEIR OPERATING CONDITIONS. WORK IN ALL AREAS SHALL BE PERFORMED IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS.
- ANY EXISTING WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THE HVAC WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS.
- AFTER CONSTRUCTION, THE ENGINEER RECOMMENDS THAT THE ENTIRE HVAC SYSTEM BE TESTED, ADJUSTED, AND BALANCED TO DELIVER THE AIR QUANTITIES SHOWN ON THE DRAWINGS. RESIDENTIAL APARTMENT UNITS DO NOT REQUIRE BALANCING. SUBMIT CERTIFIED (AABC OR NEBB) TEST AND BALANCE REPORT TO THE ARCHITECT/ENGINEER FOR APPROVAL.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT/ENGINEER.
- AIR HANDLING AND FAN COIL UNITS LOCATED ABOVE THE LOWEST LEVEL FINISHED FLOOR SHALL BE INSTALLED WITH AN AUXILIARY CONDENSATE DRAIN PAN UNDER THE UNIT. PROVIDE AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION IN SECONDARY DRAIN PAN. UNLESS OTHERWISE SPECIFIED, INSTALL MINIMUM 4" X 4" X 3/4" THICK PLYWOOD SERVICE PLATFORM ON UNIT SERVICE SIDE OF UNITS LOCATED IN ATTIC SPACES.
- ALL PIPE AND DUCT PENETRATIONS OF FIRE AND/OR SMOKE-RATED ASSEMBLIES SHALL BE FIRE-STOPPED AS REQUIRED TO RESTORE THE ASSEMBLY TO ITS ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M.
- MANUAL OVER-RIDE CONTROL (EMERGENCY SHUT-DOWN) SWITCHES FOR ALL EXIT CORRIDOR HVAC UNITS SHALL BE LOCATED IN LOCKING COVER ADJACENT TO FIRE ALARM ANNUNCIATOR PANEL.
- PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS AND IN WALL STRUCTURE TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF EQUIPMENT AND BALANCING OF SYSTEMS. ACCESS PANELS IN CEILING AND WALLS SHALL BE PROVIDED WHERE SHOWN ON THE DRAWINGS OR NECESSARY TO ACCESS DAMPERS, VALVES, ETC. COORDINATE EXACT LOCATION OF ALL ACCESS PANELS WITH THE ARCHITECT DURING THE SHOP DRAWING PROCESS.
- ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH A SEMI-RIGID PLASTIC LAMINATE NAMEPLATE WITH 2" HIGH WHITE LETTERS ON A BLACK BACKGROUND SECURELY AFFIXED TO THE EQUIPMENT. THE NAMEPLATE SHALL SHOW THE EQUIPMENT TAG USED ON THESE DRAWINGS. THE NAMEPLATE ON THE OUTDOOR EQUIPMENT SHALL INDICATE THE UNIT NUMBER IT SERVES AS WELL AS THE EQUIPMENT ID TAG.
- INSTALL GRADE MOUNTED OUTDOOR AIR CONDITIONING LEVEL ON 4" THICK REINFORCED CONCRETE PADS, EXTENDING 6" BEYOND UNIT PERIMETER.
- CEILING RETURN AND EXHAUST AIR GRILLES BLADES TO BE FIXED AT 38°.

## MECHANICAL / ELECTRICAL COORDINATION

- CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN. SHOP DRAWING SUBMITTALS SHALL CLEARLY STATE THAT THE ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT HAS BEEN COORDINATED WITH THE ELECTRICAL CONTRACT DOCUMENTS AND THE ELECTRICAL CONTRACTOR.
- ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUUSED OR NON-FUUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS, AND THE ELECTRICAL DRAWINGS.
- ALL REQUIRED CONTROL WIRING (INCLUDING POWER WIRING REQUIRED FOR CONTROL PANELS, DEVICES, ETC.) NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS.
- UNLESS NOTED OTHERWISE, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED WITH THE EQUIPMENT IT SERVES AND INSTALLED BY THE MECHANICAL CONTRACTOR. MOTOR STARTERS FOR HVAC EQUIPMENT SHALL BE FURNISHED WITH THE MOTOR OR APPARATUS WHICH IT OPERATES. MOTOR STARTER INSTALLATION SHALL BE BY THE DIVISION 16 CONTRACTOR.

## AIRSIDE

- ALL FANS SUPPLYING MORE THAN 2000 CFM OF AIR TO ANY SPACE AND ALL RECIRCULATING FAN SYSTEMS SERVING AREAS OF EGRESS, SHALL BE INSTALLED WITH A SMOKE DETECTOR IN THE SUPPLY DUCTWORK. DUCT SMOKE DETECTORS SHALL BE INSTALLED IN THE SUPPLY AIR PATH OF AIR DISTRIBUTION SYSTEMS UTILIZING A COMMON SUPPLY AND/OR RETURN AIR PLENUM WITH A COMBINED DESIGN CAPACITY GREATER THAN 2000 CFM.
- THE SMOKE DETECTOR SHALL BE WIRED TO STOP THE FAN UPON DETECTION OF SMOKE, AND SIGNAL THE BUILDING FIRE ALARM CONTROL PANEL. THE SMOKE DETECTOR SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR, MOUNTED IN THE DUCT BY THE MECHANICAL CONTRACTOR, AND WIRED BY THE ELECTRICAL CONTRACTOR.
- SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL AS RECOMMENDED IN SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION. ALL JOINTS AND SEAMS IN ALL SHEET METAL DUCTWORK SHALL BE SEALED WITH DUCT SEALER.
- ALL FIBERGLASS DUCTWORK TO BE 1" THICK FIBERGLASS DUCT BOARD (MINIMUM R-4.3 OR AS REQUIRED BY APPLICABLE ENERGY CODE), WITH GLASS FABRIC REINFORCED VAPOR BARRIER, JOHNS-MANVILLE TYPE 475. FIBERGLASS DUCTWORK AND TAPING SYSTEM SHALL BE U.L. - 181 LISTED AND SHALL BEAR THE U.L. LABEL. ALL FIBERGLASS DUCTWORK AND ACCESSORIES SHALL BE FABRICATED BY A MANUFACTURER'S AUTHORIZED FABRICATOR, SHALL ALSO BE INSTALLED WITH THE FABRICATOR'S SUPERVISION AND ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. FIBERGLASS DUCTWORK SHALL NOT BE USED OUTDOORS.
- SHEET METAL SUPPLY, RETURN, & OUTSIDE AIR DUCTWORK IN NON-AIR CONDITIONED AREAS SHALL BE INSULATED WITH 2" THICK, 3/4 LB/FT3 DENSITY FIBERGLASS BLANKET INSULATION WITH FOIL VAPOR BARRIER, U.L. LISTED, R-6 MINIMUM. PUNCTURES AND TEARS IN THE FOIL JACKET SHALL BE PATCHED WITH FOIL TAPE TO MAINTAIN THE INTEGRITY OF THE VAPOR BARRIER.
- ALL OPEN ENDED DUCTS AND FAN OUTLETS SHALL HAVE 1/2" X 1/2" HARDWARE CLOTH IN SHEET METAL HEM AFFIXED TO THE OPENING.
- EXHAUST DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED TO SMACNA STANDARDS AND SHALL NOT BE INSULATED UNLESS NOTED OTHERWISE.
- ALL DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND ATTACHMENT TO STRUCTURE SHALL BE PER SMACNA STANDARDS.
- FLEXIBLE DUCTWORK SHALL BE THERMAFLEX M-KE (U.L. 181 LISTED, CLASS 1 FLEXIBLE AIR DUCT). PROVIDE THERMAFLEX M-KE R-6 (R VALUE = 6.0 MINIMUM OR AS REQUIRED BY LOCAL ENERGY CODE) IN ATTICS AND OTHER UNCONDITIONED SPACES. AIR CONNECTORS ARE NOT ACCEPTABLE. FLEX DUCT DIAMETER SHALL MATCH DEVICE NECK DIAMETER. PROVIDE ROUND GALVANIZED STEEL DUCT RUNOUTS TO MAINTAIN A MAXIMUM FLEXIBLE DUCT LENGTH OF 8'-0". DUCT RUNOUTS IN APARTMENTS HAVE NO FLEXIBLE DUCT LENGTH LIMITATION. FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECK WHEN REQUIRED.
- ROUND AND FLEXIBLE SUPPLY AIR DUCTWORK SHALL BE CONNECTED TO MAIN DUCTS WITH A SPIN-IN FITTING AND BALANCING DAMPER. PROVIDE REMOTE ACTUATORS FOR BALANCING DAMPER LOCATED OVER INACCESSIBLE CEILINGS.
  - LINE ALL SHEET METAL DUCTWORK A MINIMUM OF 10'-0" (OR AS INDICATED) DOWNSTREAM OF ALL AIR HANDLING UNITS. DUCT LINER SHALL BE 1" THICK, 3 LB/FT3 DENSITY (MINIMUM R VALUE = 4.0 OR AS REQUIRED BY APPLICABLE ENERGY CODE); CERTAINTED "TOUGH GARD 2". THE LEADING EDGE OF THE DUCT LINER SHALL HAVE A SHEET METAL NOSING.
  - EXTERNAL STATIC PRESSURE (ESP) DOES NOT INCLUDE COIL, CASING OR FILTER PRESSURE DROP.
  - INSTALL FIRE DAMPERS IN ALL FIRE RATED WALLS, FLOOR AND CEILING PENETRATIONS. FIRE DAMPERS SHALL BE THE DYNAMIC TYPE WITH BLADES OUT OF THE AIRSTREAM WHERE POSSIBLE. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES. PROVIDE ACCESS DOORS IN DUCTWORK AT EACH FIRE DAMPER LOCATION. INSTALL SMOKE DAMPERS IN ALL DUCT PENETRATIONS THROUGH SMOKE RATED WALLS. WHERE DUCTS PENETRATE WALLS THAT CARRY BOTH FIRE AND SMOKE RATINGS, THE DAMPERS INSTALLED SHALL BE COMBINATION FIRE AND SMOKE DAMPERS. ALL DAMPERS SHALL BE U.L. 555 AND/OR 5555 LABELED.
  - LOCATIONS OF GRILLES, REGISTERS, AND DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH LIGHTS, CEILING GRID, ETC. AND ARCHITECTURAL REFLECTED CEILING PLAN.
  - DUCTWORK WITHIN AN OPEN ATTIC SPACE WITHOUT FIRE OR DRAFT STOPS, SHALL BE GALVANIZED STEEL AND SHALL BE WRAPPED WITH MINIMUM R-6 DUCTWRAP INSULATION WITH FOIL FACED VAPOR BARRIER.
  - DRYER DUCT LOCATED IN UL LISTED FLOOR/CEILING ASSEMBLIES SHALL BE PROTECTED WITH 1-HOUR FIRE BARRIER DUCT WRAP. FIRE-RESISTIVE 3M FIREMASTER DUCT WRAP. FIRE BARRIER DUCT WRAP SHALL BE APPLIED IN A CONTINUOUS WRAP FROM THE POINT THE DUCT ENTERS A CONCEALED SPACE TO ITS EXIT FROM A BUILDING. PROVIDE A THROUGH-PENETRATION FIRESTOP SYSTEM AT THE POINT OF ENTRY.
  - EXHAUST DUCTS: GALVANIZED STEEL.
  - AVC SUPPLY AND RETURN DUCTS:
    - DIMENSIONS SHOWN ARE CLEAR INSIDE. DUCTS WITHOUT DIMENSIONS SHALL BE SIZED AT 0.07" I.O.O.
    - RECTANGULAR AND ROUND GALVANIZED STEEL: FABRICATE PER SMACNA LOW VELOCITY DUCT STANDARDS. SEAL ALL JOINTS IN DUCT WITH APPROVED MASTIC.
    - FLEXIBLE RUNOUTS: UL CLASS 1. ASSEMBLE WITH SOLID VINYL LINER, GALVANIZED HELICAL WIRE FORMER, 1" FIBERGLASS BLANKET WITH POLYVAPOR BARRIER. SECURE ENDS WITH BAND CLAMPS: ONE DUCT-TO-COLLAR AND ONE OVER CAPOR CARRIER, TO SEAL OPEN SLEEVE END.
    - INSULATION: 2" FIBERGLASS INSULATION WITH VAPOR BARRIER. SEAL SEAMS IN VAPOR BARRIER WITH 10X10 MESH GLASS FABRIC AND MASTIC.
    - DUCT LINER: 1" THICKNESS, COATED AIRSIDE, K=0.25. INSTALL WITH 100% ADHESIVE COVERAGE. PROVIDE MECHANICAL FASTENERS ON 15" CENTERS ON TOP AND SIDE OF DUCTWORK WITH DIMENSIONS EXCEEDING 20". SEAL AND SMOOTH JOINTS WITH MASTIC.
- AIR DISTRIBUTION ACCESSORIES: TURNING VANES: DOUBLE WALL TYPE, SPIN-IN CONNECTIONS WITH SCOOP AND DAMPER.

## PIPING

- REFRIGERANT PIPING SHALL BE TYPE L OR REFRIGERATION SERVICE COPPER TUBING WITH BRAZED JOINTS. SUCTION PIPING SHALL BE INSULATED WITH 3/4" MANVILLE AEROTUBE II PIPE INSULATION SLID OVER TUBING WITHOUT CUTTING. ALL JOINTS AND SEAMS SHALL BE SEALED WITH ADHESIVE.
- CONDENSATE FROM ALL AIR CONDITIONING EQUIPMENT SHALL BE TRAPPED AND ROUTED AS INDICATED ON THE FLOOR PLANS AND PER CODE REQUIREMENTS. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC (EXCEPT INSULATED COPPER IN HVAC PLENUMS). CONDENSATE SHALL BE PUMPED AS REQUIRED.
- PIPING AT EQUIPMENT SHALL BE SUPPORTED SO THAT NO PIPING OR ACCESSORY LOAD IS CARRIED BY THE EQUIPMENT.
- ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPING HUNG FROM JOISTS SHALL BE HUNG FROM THE TOP CHORDS OF THE JOISTS.
- WHERE MAXIMUM OPERATING PRESSURE IS GREATER THAN 150 PSIG IN ANY SYSTEM, CONTRACTOR SHALL FURNISH AND INSTALL PRODUCTS, PIPING, VALVES, FITTINGS, AND ACCESSORIES WITH PRESSURE CLASSIFICATIONS THAT ARE SUITABLE FOR SERVICE. IN GENERAL, ALL PRODUCTS, PIPING, VALVES, FITTINGS, AND ACCESSORIES BELOW 350 FEET OF THE HIGHEST PIPING POINT MUST HAVE PRESSURE RATINGS OF 300 PSI W.O.G. OR GREATER. ALL PRODUCTS, PIPING, VALVES, FITTINGS, AND ACCESSORIES BELOW 575 FEET OF THE HIGHEST PIPING MUST HAVE PRESSURE RATINGS OF 500 PSI W.O.G. OR GREATER.
- EXPANSION IN PIPING SYSTEMS SHALL BE COMPENSATED FOR BY THE USE OF U-BENDS, Z-BENDS OR EXPANSION JOINTS AS INDICATED. U-BENDS (LOOPS) AND Z-BENDS SHALL BE COMPLETE WITH PIPE GUIDES AND ANCHORS.
- PIPE INSULATION: CLOSED CELL TUBULAR FIRE RATED FLEXIBLE FOAM RUBBER OR POLYOLEFIN.
- SUCTION LINES: 3/4" THICKNESS
- CONDENSATE LINES: 1/2" THICKNESS

## GENERAL NOTES

- DRAWING(S) ARE SCHEMATIC. CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL DEVICE LOCATIONS AND INTERCONNECT ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONFIGURATION AND REQUIREMENTS.
- OWNER AND/OR CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCY AND/OR ITEMS IN NEED OF CLARIFICATION AND/OR DETAIL ELABORATION.
- OWNER AND/OR CONTRACTOR TO NOTIFY ENGINEER OF ANY KNOWN ERRORS AND/OR OMISSIONS IN NEED OF ELABORATION IN WRITING FOR ENGINEERING REVIEW.
- OWNER AND/OR CONTRACTOR TO NOTIFY ENGINEER OF ANY DIFFERENT SITE CONDITIONS, STRUCTURAL CONDITIONS, SPACE UTILIZATION OF ANY OTHER DIFFERING CONDITION IN WRITING. ENGINEER TO REVIEW AND RESPOND TO ALL WRITTEN NOTIFICATIONS.
- CONTRACTOR IS TO PROVIDE FIRE DAMPERS AS REQUIRED THROUGHOUT ALL FIRE RATED ASSEMBLIES. REFERENCE DETAIL XSM3.0.
- ANYALL PENETRATION THROUGH FIRE RATED WALLS & CEILINGS MUST BE PROPERLY SEALED PER 2018 IBC CHAPTER 7.

## MINIMUM VENTILATION RATES IN BREATHING ZONES (PER ASHRAE 6.1) FOR THE GEORGETOWN PUBLIC WORKS BUILDING

OCCUPANT CATEGORY	PROJECT SQ FT	OCCUPANT DENSITY #/ APPLICABLE SQ FT	OCCUPANTS PER ARCHITECT	OUTDOOR AIR RATE	REQUIRED OUTDOOR AIR
				CFM PER PERSON	
BUSINESS	1,334 SQ FT	150	9	17	153
				ACTUAL OA:	200

### NOTES:

- FRESH AIR MODULATED BY MOTORIZED CONTROLS.

### AIR BALANCE SCHEDULE FOR THE BUILDING

UNIT NAME	EXHAUST CFM	OA CFM
EF	100	-
AHU1	-	200
FLOOR TOTAL: 100 POSITIVE CFM		

### AIR CONDITIONING EQUIPMENT SCHEDULE

QTY.	UNIT NAME	NOMINAL COOLING TONS (T)	MIN SEER	MIN IEER	FAN CFM	OA CFM	SHIPPING WEIGHT (LBS)	MANUFACTURER # MODEL #	NOTES
1	AHU1	4	-	-	1400	200	172	CARRIER FV4CNFOOSL00	2, 8, 9
1	CU1	4	16.0	-	1600	-	339	CARRIER 25HCB648A003	1, 9
1	TS	-	-	-	-	-	-	CARRIER EB-STAT5SCR-01	1, 9
2	EF	-	-	-	50	-	-	GREENHECK SPB-50 OR EQUIV.	3, 4, 5, 6, 7, 9

### NOTES:

- NON-PROGRAMMABLE THERMOSTAT OFFERING THERMOSTAT SENSORS, TEMPERATURE & HUMIDITY RANGES, AND ALEXA BUILT-IN.
- SMOKE DETECTOR AS REQUIRED BY ALL APPLICABLE LOCAL CODES AND ORDINANCES
- LOW-AMBIENT CONTROL TO 32° F.
- OPERABLE FROM LIGHT SWITCH IN BATHROOM.
- BACKDRAFT DAMPER.
- DIRECT EXHAUST.
- ELECTRIC FAN TO CONFORM TO UL-UL 507.
- AIR HANDLER UNIT DRAIN HOSE TO EITHER EMPTY ABOVE AN EXTERIOR WINDOW OR TO EMPTY TO THE NEAREST FLOOR SINK/HUB DRAIN/FLOOR DRAIN.
- UNIT IS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS

## MECHANICAL LEGEND

	SUPPLY DUCT		DUCT DIAMETER SIZE INDICATOR
	RETURN/EXHAUST DUCT	AHU	AIR HANDLER UNIT
	AIR SUPPLY DIFFUSER	CU	CONDENSING/COMPRESSOR UNIT
	RETURN AIR INTAKE	CFM	CUBIC FEET PER MINUTE
	EXHAUST FAN	EA	EXHAUST AIR
	FRESH AIR INTAKE	OA	OUTDOOR AIR
	THERMOSTAT PLACEMENT INDICATOR	RA	RETURN AIR

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GENERAL MECHANICAL NOTES

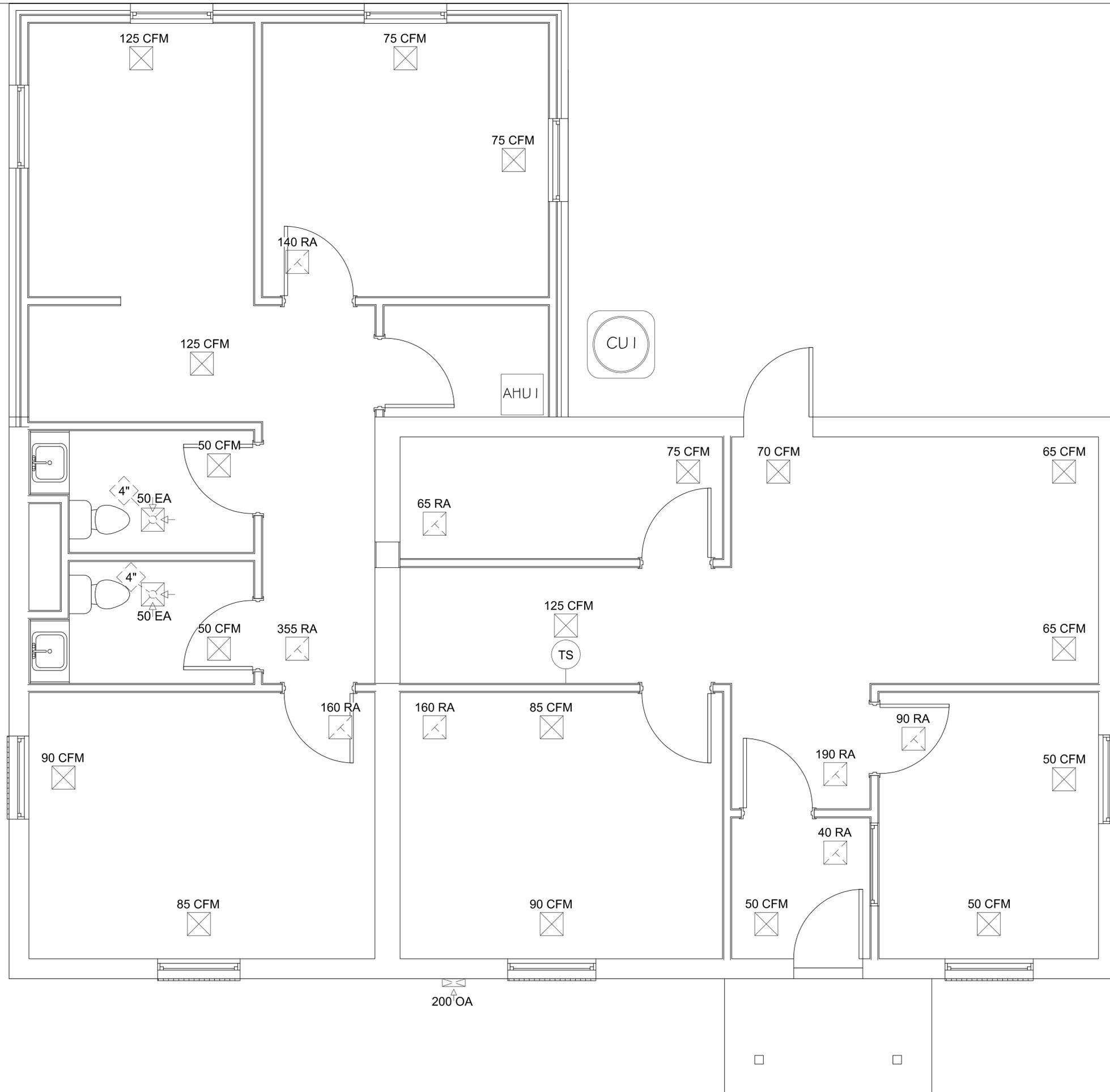
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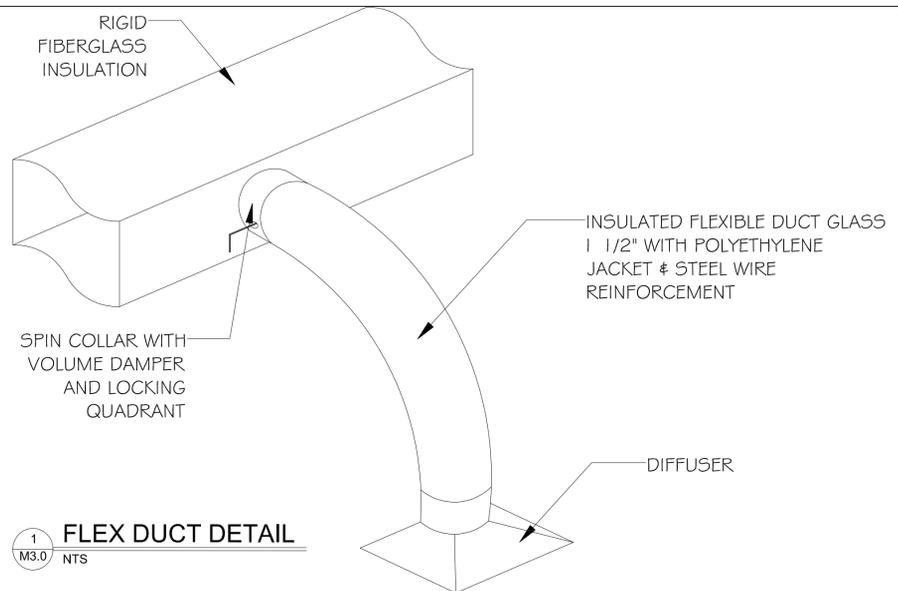
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 PUBLIC BUILDING MECHANICAL PLAN

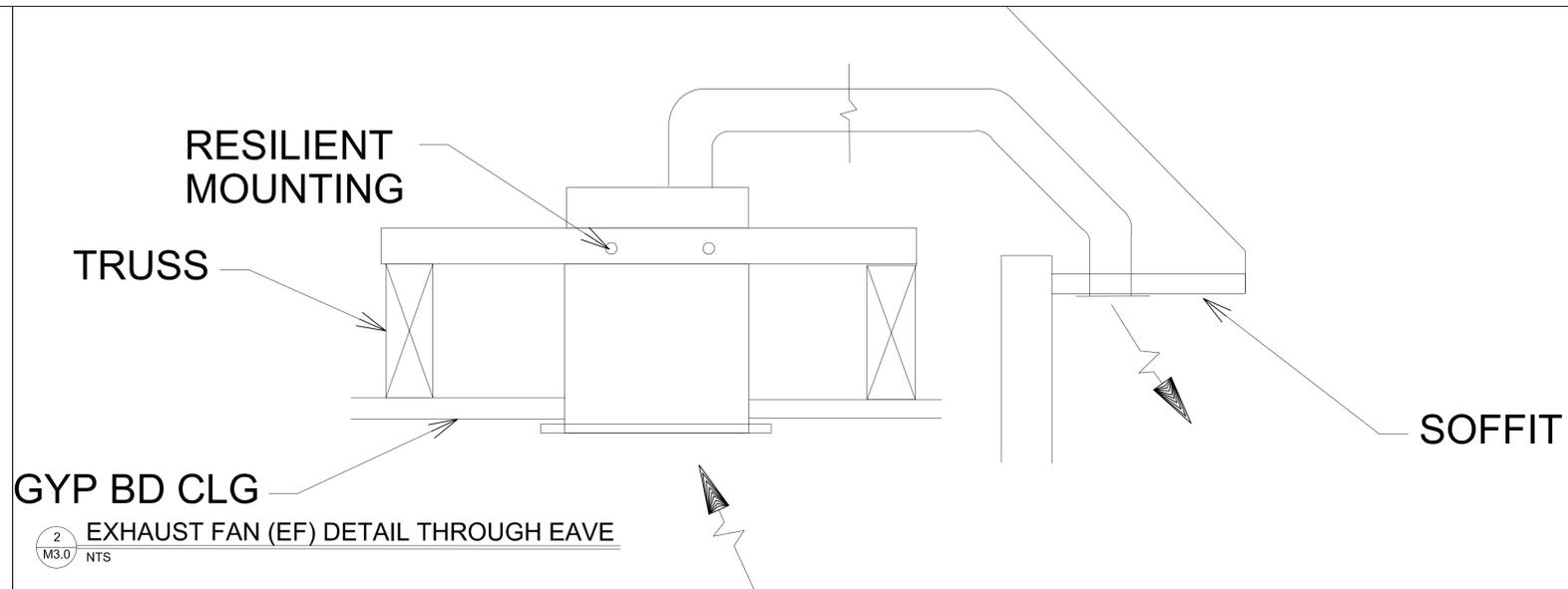
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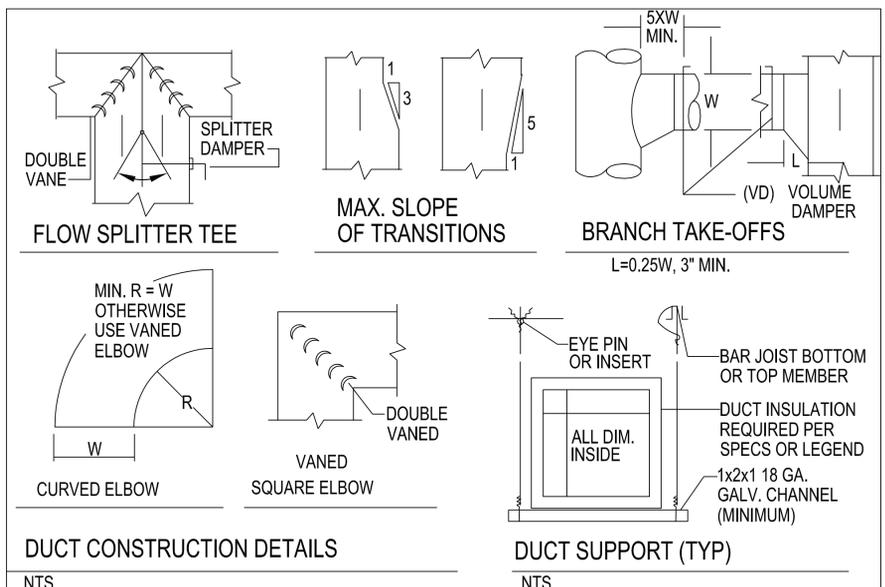
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 PUBLIC BUILDING MECHANICAL PLAN



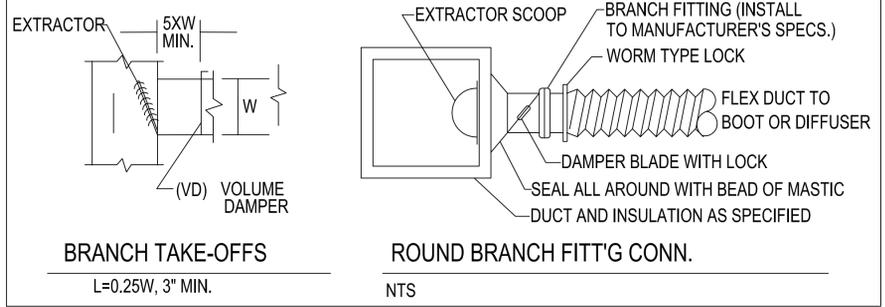
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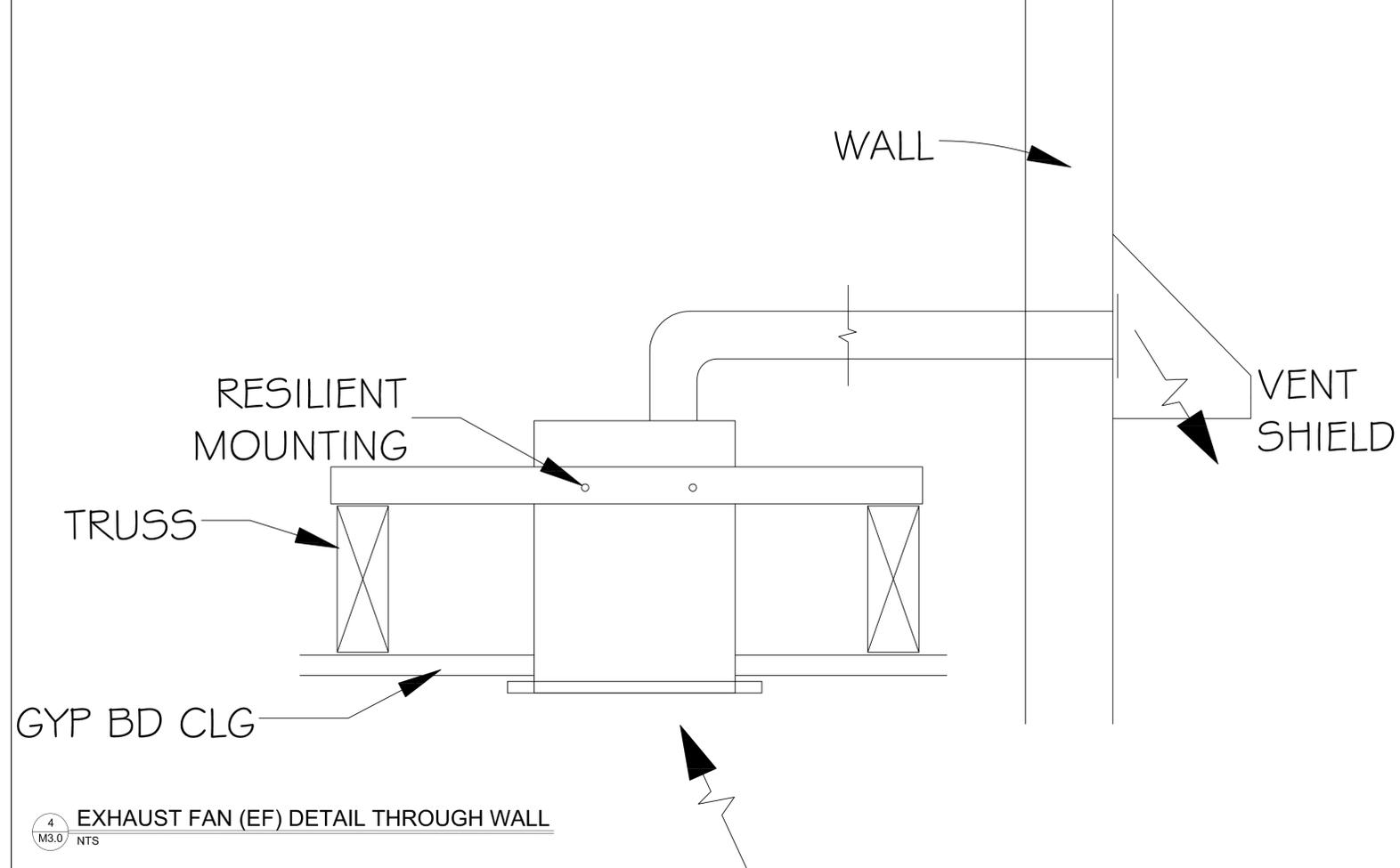
2  
M3.0  
NTS  
**EXHAUST FAN (EF) DETAIL THROUGH EAVE**



NTS  
**DUCT CONSTRUCTION DETAILS**



3  
M3.0  
NTS  
**DUCT DETAILS**



4  
M3.0  
NTS  
**EXHAUST FAN (EF) DETAIL THROUGH WALL**

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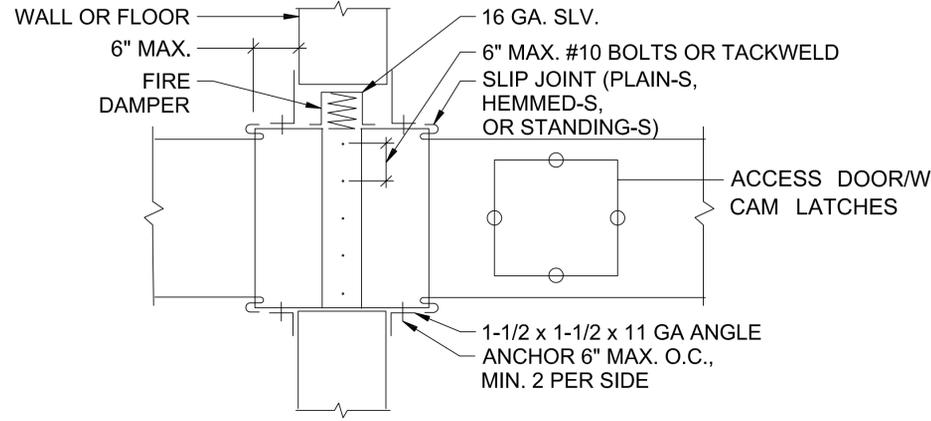
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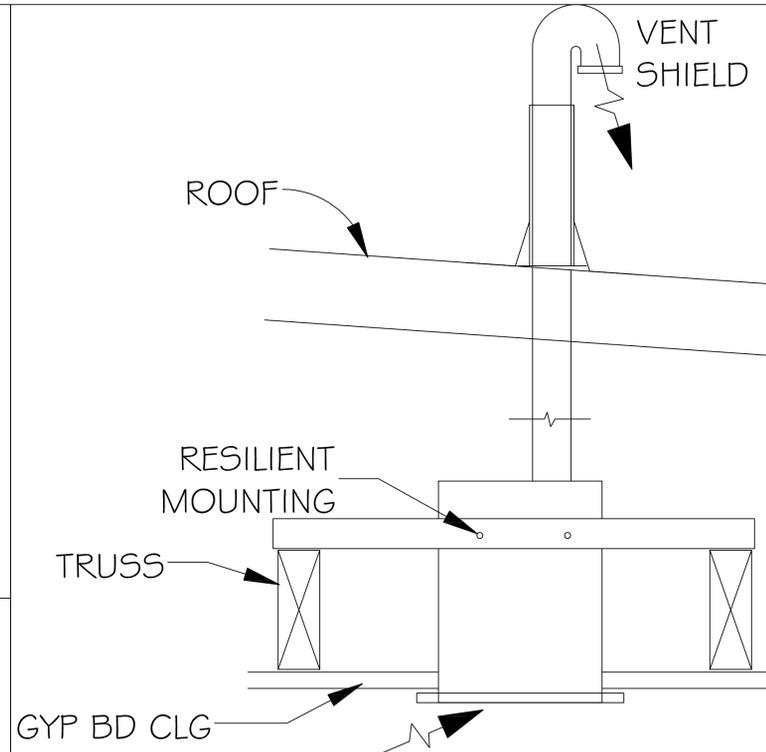
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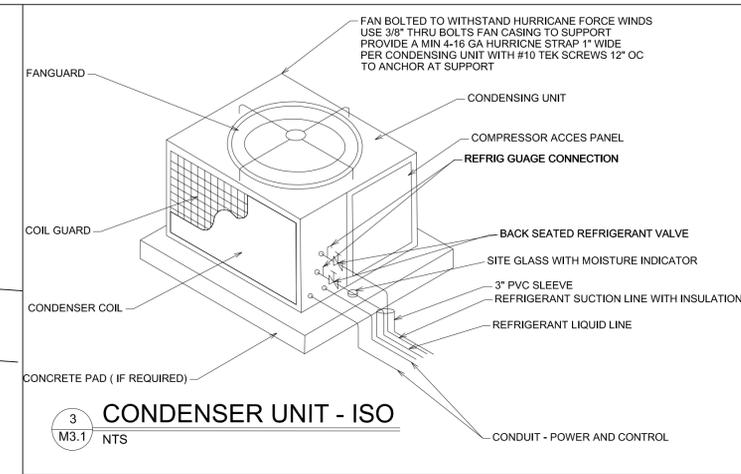


1 FIRE DAMPER  
M3.1 NTS

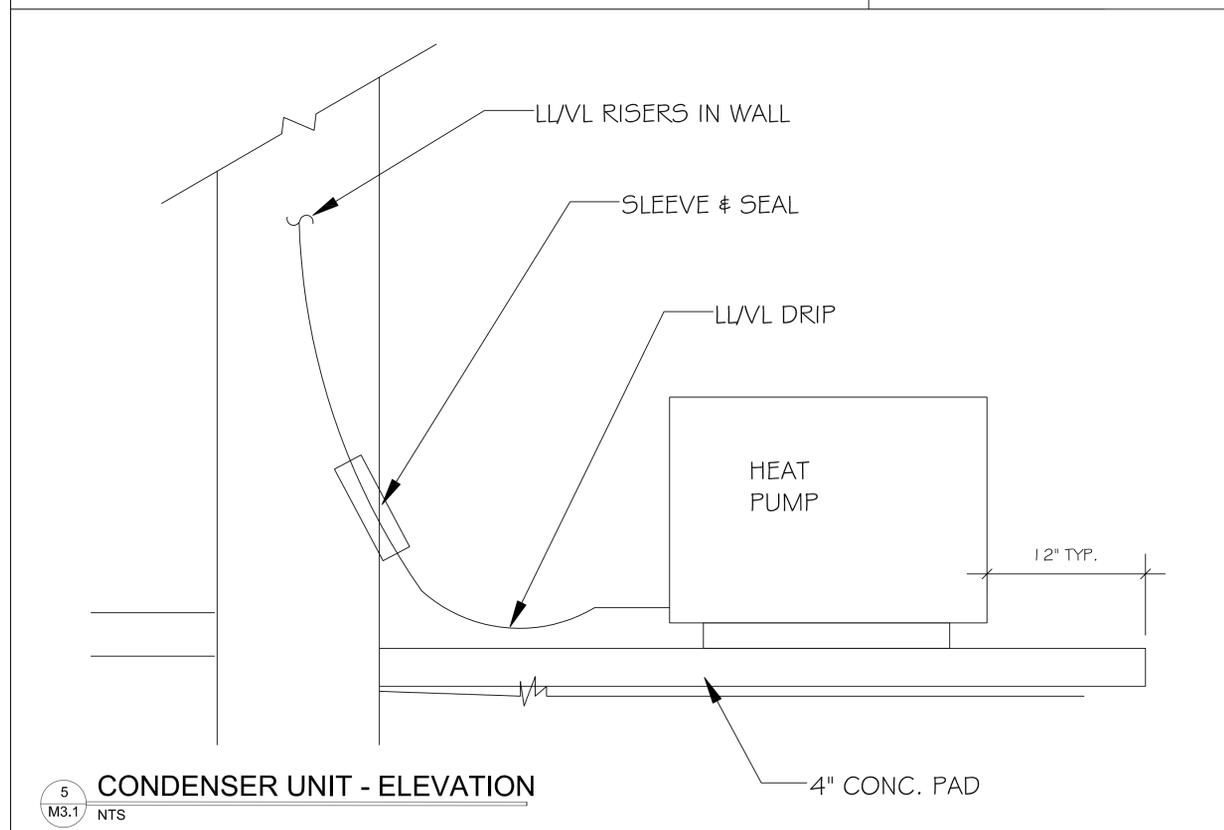
MINIMUM OPENING IN FLR OR WALL SHALL BE 1/8" PER FOOT LARGER THAN DAMPER DIMENSIONS. MINIMUM CLEARANCE OF 1/4" REQUIRED FOR ANY INSTALLATION.



2 EXHAUST FAN (EF) DETAIL THROUGH ROOF  
M3.1 NTS

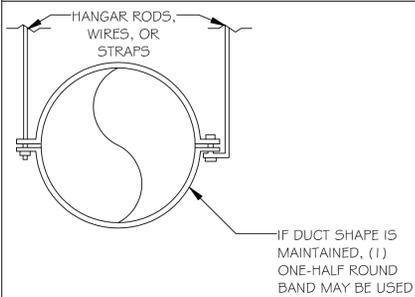
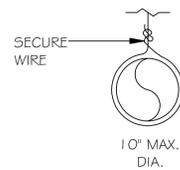
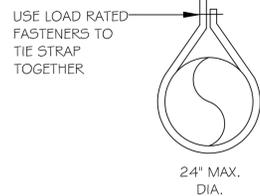
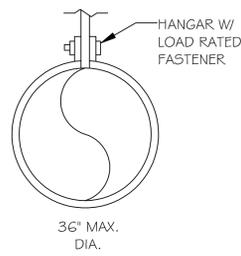
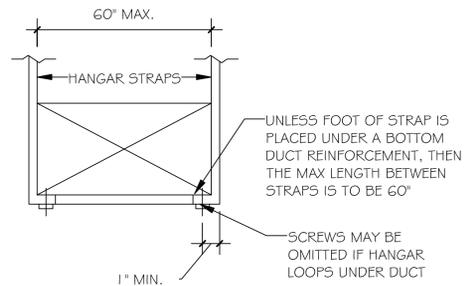


3 CONDENSER UNIT - ISO  
M3.1 NTS



5 CONDENSER UNIT - ELEVATION  
M3.1 NTS

STRAP HANGARS



GENERAL NOTES:  
1. DETAILS BASED ON SMACNA 1995, FIG. 4-4.  
2. DO NOT EXCEED SMACNA, CH. 4, ALLOWABLE LOAD LIMITS.  
3. HANGERS MUST NOT DEFORM DUCT SHAPE.  
4. DUCT REINFORCEMENT MAY BE USED FOR ATTACHMENT IF IT QUALIFIES FOR BOTH DUTIES.

4 DUCTWORK STRAP HANGER DETAIL  
M3.1 NTS

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**M3.1**  
N.T.S.  
MECHANICAL  
DETAILS

## PLUMBING SPECIFICATION NOTES

1.	ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 INTERNATIONAL PLUMBING CODE, 2018 INTERNATIONAL BUILDING CODE, ANY/ALL CODES, ORDINANCES, AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION OVER THIS WORK WHETHER SHOWN IN THESE DOCUMENTS OR NOT
2.	IF ANY OF THE GOVERNING CODES ARE UPDATED, CHANGED, AND/OR MODIFIED AFTER THE SUBMITTAL OF THE DRAWINGS TO THE OWNER AND/OR ARCHITECT AND PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THEN THE DRAWINGS MUST BE RESUBMITTED TO THE ENGINEER FOR REVIEW, REEXAMINATION AND/OR REEVALUATION.
3.	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL PLUMBING FIXTURES.
4.	PLUMBING CONTRACTOR TO VERIFY ALL PLUMBING FIXTURES WITH ARCHITECT AND/OR OWNER BEFORE PROCUREMENT AND/OR INSTALLATION.
5.	WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION.
6.	SANITARY AND DRAINAGE PIPING 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM AND BE SET FLUSH WITH FINISHED FLOOR. PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.
7.	TOPS OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR.
8.	TRAP PRIMERS ARE TO BE PROVIDED ON ALL FLOOR DRAINS AND HUB DRAINS. TP "A" AUTOMATIC TRAP PRIMERS ARE TO BE PROVIDED IN ALL REQUIRED LOCATIONS.
9.	PLUMBING AND FIRE PROTECTION PIPING IS NOT TO BE INSTALLED IN ELECTRICAL ROOMS, CLOSETS, TELEPHONE ROOMS, OR ELEVATOR EQUIPMENT ROOMS EXCEPT PIPING SERVING THAT SPECIFIC ROOM.
10.	LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'-0" FROM ACCESS PANELS, CEILING TILES, OR OTHER POINT OF ACCESS.
11.	ALL COLDWATER, HOT WATER AND DRAIN PIPING AT HANDICAPPED FIXTURES SHALL BE INSULATED WITH HAND-LAV GUARD MODELS 102 AND 105 INSULATION KITS.
12.	PROVIDE SHOCK ABSORBERS SIZED PER FDI SPECIFICATIONS ON ALL DOMESTIC WATER LINES SERVING FLUSH VALVE FIXTURES, WASHING MACHINES SUPPLIES, PRV STATIONS AND OTHER INSTALLATIONS WITH QUICK CLOSING VALVES.
13.	PROVIDE A BASE CLEANOUT AT THE LOWEST LEVEL OF ALL SANITARY AND WASTE STACKS.
14.	PROVIDE REDUCED PRESSURE BACKFLOW PREVENTORS AT ALL DOMESTIC WATER CONNECTIONS TO MECHANICAL EQUIPMENT, AS REQUIRED BY ANY/ALL CODES, ORDINANCES, AND REGULATIONS. BACKFLOW PREVENTORS ARE TO BE LOCATED WITH A MINIMUM OF 1'-0" CLEARANCE AT THE LOWEST POINT AND AT A MAXIMUM OF 5'-0" ABOVE FINISHED FLOOR AT THE HIGHEST POINT OF THE DEVICE.
15.	PROVIDE MANUFACTURED EXPANSIONS DEVICE OR FABRICATED EXPANSION LOOP ON ALL PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS.
16.	PLUMBING CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND THE ELECTRICAL CONTRACTOR; AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
17.	ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC. INSTALLED IN HVAC PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
18.	ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE-YEAR AFTER FINAL ACCEPTANCE.
19.	ALL PIPE PENETRATIONS OF FIRE AND/OR SMOKE RATED ASSEMBLIES SHALL BE FIRE STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE MANUFACTURED BY 3M COMPANY. USE CP25 CAULK, C5195 COMPOSITE PANEL, F5195 WRAP/SHRINK, TREMCO, HILT, METACAULK, NELSON, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MANUFACTURER FOR PARTICULAR APPLICATIONS, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS. ALSO, REFER TO DIVISION 7 - THERMAL AND MOISTURE PROTECTION.
20.	ALL VENT THRU ROOF PENETRATIONS SHALL BE ROUTED TO TERMINATE AT THE LEAST VISIBLE LOCATION FROM THE ENTRY VIEW.
23.	WATER LINES INSIDE BUILDING: A. COPPER TYPE "L" WITH LEAD FREE SOLDER. B. SCHEDULE 40 CPVC WITH SOLVENT JOINTS. C. PEX WITH MANUFACTURER'S APPROVED CONNECTIONS.
24.	WATER LINES OUTSIDE BUILDING: A. SCHEDULE 40 PVC WITH SOLVENT JOINTS FOR WATER METER TO 20' OUTSIDE BUILDING. B. SCHEDULE 40 CPVC OR COPPER TYPE "L" WITH LEAD FREE SOLDER FOR 20' OUTSIDE BUILDING ENTRY.
25.	SCHEDULE 40 PVC WITH DRAINAGE PATTERN FITTINGS AND SOLVENT WELDED JOINTS FOR WASTE AND VENT PIPES.
26.	SHUT-OFF VALVES TO BE PROVIDED AT FIXTURES.
27.	ANY/ALL EXPOSED FIXTURE TRIM SHALL BE CHROME PLATED.
28.	ALL FIXTURES AND EQUIPMENT SHALL BE PROVIDED WITH A UNION TYPE CONNECTION TO FACILITATE REMOVAL/SERVICE.
29.	INSULATE HOT WATER LINES FROM THE WATER HEATER AND THROUGHOUT THE SYSTEM WITH 3/4" FIBERGLASS PREFORM OF "FR" TYPE RUBBER OR POLYOLEFIN FLEXIBLE FOAM.
30.	NOTIFY ALL RESPECTIVE UTILITY COMPANIES WHOSE LINES ARE ROUTED THROUGH, CONNECTED TO, AND/OR ARE IN 10' PROXIMITY OF CONSTRUCTION SITE
31.	AS REQUIRED, COORDINATE WITH UTILITY COMPANIES FOR SERVICE AND METER LOCATIONS.
32.	NOTIFY THE UTILITIES PROTECTION CENTER AT LEAST THREE BUSINESS DAYS PRIOR TO BEGINNING ANY/ALL: A. EARTH EXCAVATION OR DIGGING WORK. B. WORK WHICH POTENTIALLY COMES WITHIN 10' OF ANY OVERHEAD HIGH VOLTAGE LINE.

## GENERAL NOTES

1.	DRAWING(S) ARE SCHEMATIC. CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL DEVICE LOCATIONS AND INTERCONNECT ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONFIGURATION AND REQUIREMENTS.
2.	OWNER AND/OR CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCY AND/OR ITEMS IN NEED OF CLARIFICATION AND/OR DETAIL ELABORATION.
3.	OWNER AND/OR CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCY AND/OR OMISSIONS IN NEED OF ELABORATION IN WRITING FOR ENGINEERING REVIEW
4.	OWNER AND/OR CONTRACTOR TO NOTIFY ENGINEER OF ANY DIFFERENT SITE CONDITIONS, STRUCTURAL CONDITIONS, SPACE UTILIZATION OF ANY OTHER DIFFERENCING CONDITION IN WRITING. ENGINEER TO REVIEW AND RESPOND TO ALL WRITTEN NOTIFICATIONS.

## PLUMBING WASTE NOTES

1.	LOCATE EXISTING SANITARY SEWER LINES INFIELD.
2.	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL PLUMBING FIXTURES
3.	INSTALL NEW FLOOR DRAIN AND ROUTE 4" WASTE LINE TO EXISTING SEWER LINE. VERIFY LOCATION AND FLOW PRIOR TO INSTALLATION. INSTALL NEW 1/2" TRAP PRIMER LINE FROM FLOOR DRAIN TO LAVATORY.
4.	I.W. = INDIRECT WASTE LINE RUN TO NEAREST FLOOR SINK/HUB DRAIN/FLOOR DRAIN.
5.	SANITARY AND DRAINAGE PIPING 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM AND BE SET FLUSH WITH FINISHED FLOOR. PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.
6.	PROVIDE A BASE CLEANOUT AT THE LOWEST LEVEL OF ALL SANITARY AND WASTE STACKS.

## PLUMBING LEGEND

—	WASTE LINE
- - -	WASTE VENT
U	P-TRAP
⊗	SANITATION TIE IN, VERIFY LOCATION IN FIELD
—	COLD WATER LINE
- - -	HOT WATER LINE
⊙	HOT WATER HEATER CIRCULATION PUMP
⊗	WATER TIE IN, VERIFY LOCATION IN FIELD
N	CHECK VALVE
↵	PIPE DOWN
—○	PIPE UP
—┘	PIPE CAP
⊥	PISTON TYPE WATER HAMMER ARRESTOR
⊥	PRESSURE/TEMPERATURE RELIEF VALVE
FD	FLOOR DRAIN
VTR	VENT THRU ROOF
WCO	CLEAN OUT @ WALL

## PLUMBING EQUIPMENT & FIXTURE SCHEDULE

QTY.	UNIT NAME	DESCRIPTION	MANUFACTURER MODEL	COLD INLET	HOT INLET	WASTE OUTLET	I.W.	NOTES
1	WH	50 GALLON ELECTRICAL HOT WATER HEATER	SELECTION BY OWNER	3/4"	3/4"	-	-	3, 5
2	WC	ADA RATED, FLOOR MOUNTED, 1.6 GPF WATER CLOSET MADE OF VITREOUS CHINA W/ 18" NOMINAL SEAT HEIGHT & FLUSH TANK	SELECTION BY OWNER	1/2"	-	3"	-	1, 2, 3
2	L	ADA RATED, DROP-IN, LAVATORY MADE OF VITREOUS CHINA W/ 4" CENTERED SINGLE LAYER FAUCET & GRID DRAIN	SELECTION BY OWNER	1/2"	1/2"	1-1/2"	-	3, 4
1	KS	DROP-IN, SINGLE BASIN KITCHEN SINK MADE OF STAINLESS STEEL W/ DOUBLE HANDLE FAUCET & CENTERED DRAIN	SELECTION BY OWNER	1/2"	1/2"	1-1/2"	-	3, 4
1	REF	REFRIGERATOR W/ WATER DISPENSER & ICE MAKER	SELECTION BY OWNER	1/2"	-	-	-	3

## NOTES:

- OPEN FRONT WATER CLOSET SEAT TO BE MADE OF HEAVY DUTY SOLID PLASTIC W/ STAINLESS STEEL SELF-SUSTAINING CHECK HINGE.
- WATER CLOSET OPERATOR TO BE LOCATED ON THE MOST OPEN SIDE OF FIXTURE.
- ANY/ALL FIXTURE CONTACT WITH WALLS/FLOORS/COUNTERS SHALL BE CAULKED/GROUTED/SEALED, AS APPLICABLE.
- MIXING VALVE TO BE PROVIDED TO TEMPER HOT WATER TO 110° F.
- FIXTURE TO BE SUPPORTED BY SOLID BLOCKING IN WALL.
- HOT WATER HEATER DRAIN HOSE TO EMPTY ABOVE AN EXTERIOR WINDOW OR TO EMPTY TO THE NEAREST FLOOR SINK/HUB DRAIN/FLOOR DRAIN.

DO NOT SCALE THE DRAWINGS. THE DESIGNER WILL NOT ACCEPT RESPONSIBILITY FOR CONSTRUCTION ERRORS DUE TO SCALING OF THE DRAWINGS. VERIFY ALL DIMENSIONS, FINISHES, MATERIALS, ETC. BEFORE BEGINNING CONSTRUCTION. IF DIMENSIONS OR DETAILS ARE OMITTED, INCORRECT, OR NOT CLEAR, THE CONTRACTOR SHALL CONSULT WITH THE DESIGNER FOR CLARIFICATION.

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**GEORGETOWN PUBLIC  
WORKS BUILDING**

**399 NORTH KAMINSKI ST.,  
GEORGETOWN, SC**

RAYMOND ENGINEERING

PLUMBING GENERAL NOTES

## REVISIONS

MARK	DATE	DESCRIPTION
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TREC No.	1905-1742-05
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Checked by	MT
Approved by	MT

**P1.0**  
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PLUMBING GENERAL NOTES

## PLUMBING SPECIFICATION NOTES

1. ALL WORK SHALL CONFORM TO ALL CODES, ORDINANCE, AND REGULATIONS OF ANY/ALL AUTHORITIES HAVING JURISDICTION OVER THIS WORK WHETHER SHOWN IN THESE DOCUMENTS OR NOT.

2. WATER LINES INSIDE BUILDING:  
 A. COPPER TYPE "L" WITH LEAD FREE SOLDER.  
 B. SCHEDULE 40 CPVC WITH SOLVENT JOINTS.  
 C. PEX WITH MANUFACTURER'S APPROVED CONNECTIONS.

3. WATER LINES OUTSIDE BUILDING:  
 A. SCHEDULE 40 PVC WITH SOLVENT JOINTS FOR WATER METER TO 20' OUTSIDE BUILDING.  
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6. ANY/ALL EXPOSED FIXTURE TRIM SHALL BE CHROME PLATED.

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8. INSULATE HOT WATER LINES FROM THE WATER HEATER THROUGHOUT THE SYSTEM WITH 3/4" FIBERGLASS PREFORM OF "FR" TYPE RUBBER OR POLYOLEFIN FLEXIBLE FOAM.

9. NOTIFY ALL RESPECTIVE UTILITY COMPANIES WHOSE LINES ARE ROUTED THROUGH, CONNECTED TO, AND/OR ARE IN 10' PROXIMITY OF CONSTRUCTION SITE

10. AS REQUIRED, COORDINATE WITH UTILITY COMPANIES FOR SERVICE AND METER LOCATIONS.

11. NOTIFY THE UTILITIES PROTECTION CENTER AT LEAST THREE BUSINESS DAYS PRIOR TO BEGINNING ANY/ALL:

A. EARTH EXCAVATION OR DIGGING WORK.  
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## PLUMBING WASTE NOTES

1. LOCATE EXISTING SANITARY SEWER LINES IN FIELD.

2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL PLUMBING FIXTURES.

3. INSTALL NEW FLOOR DRAIN AND ROUTE 4" WASTE LINE TO EXISTING SEWER LINE. VERIFY LOCATION AND FLOW PRIOR TO INSTALLATION. INSTALL NEW 1/2" TRAP PRIMER LINE FROM FLOOR DRAIN TO LAVATORY.

4. I.W. = INDIRECT WASTE LINE RUN TO NEAREST FLOOR SINK/HUB DRAIN/FLOOR DRAIN.

5. SANITARY AND DRAINAGE PIPING 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM AND BE SET FLUSH WITH FINISHED FLOOR. PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.

6. PROVIDE A BASE CLEANOUT AT THE LOWEST LEVEL OF ALL SANITARY AND WASTE STACKS.

## GENERAL NOTE:

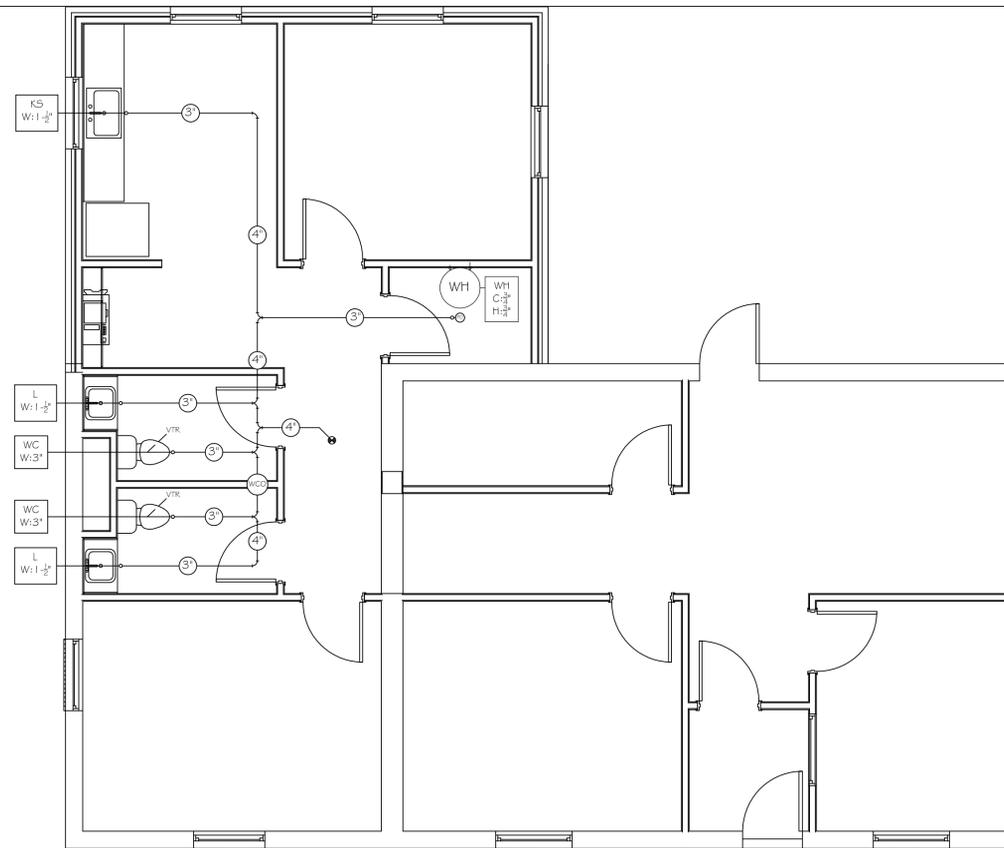
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PLUMBING LEGEND	
	WASTE LINE
	WASTE VENT
	P-TRAP
	SANITATION TIE IN, VERIFY LOCATION IN FIELD
	COLD WATER LINE
	HOT WATER LINE
	HOT WATER HEATER CIRCULATION PUMP
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	VENT THRU ROOF
	CLEAN OUT @ WALL

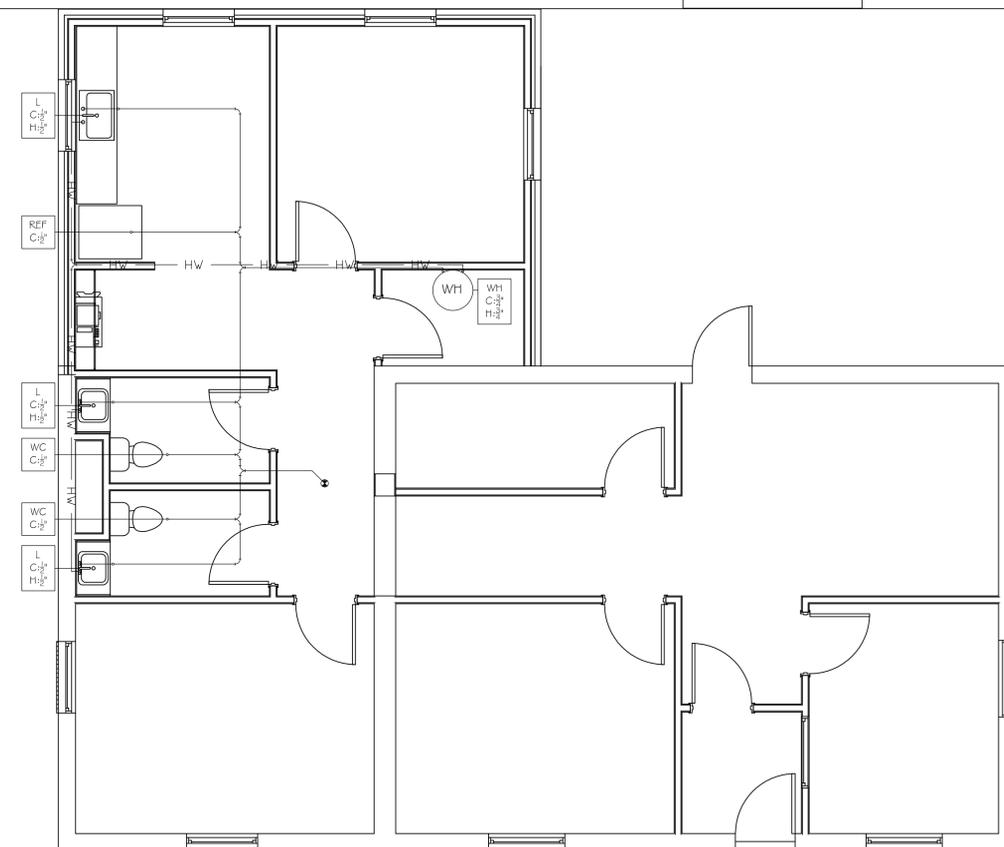
CONTRACTOR TO EXTEND MAIN WATER LINE TO EXISTING WATER METER AND MAIN SEWER LINE TO EXISTING CLEANOUT

PLUMBING EQUIPMENT & FIXTURE SCHEDULE								
QTY.	UNIT NAME	DESCRIPTION	MANUFACTURER MODEL	COLD INLET	HOT INLET	WASTE OUTLET	I.W.	NOTES
1	WH	50 GALLON ELECTRICAL HOT WATER HEATER	SELECTION BY OWNER	3/4"	3/4"	-	-	3, 5
2	WC	ADA RATED, FLOOR MOUNTED, 1.6 GPF WATER CLOSET MADE OF VITREOUS CHINA W/ 18" NOMINAL SEAT HEIGHT & FLUSH TANK	SELECTION BY OWNER	1/2"	-	3"	-	1, 2, 3
2	L	ADA RATED, DROP-IN, LAVATORY MADE OF VITREOUS CHINA W/ 4" CENTERED SINGLE LAYER FAUCET & GRID DRAIN	SELECTION BY OWNER	1/2"	1/2"	1-1/2"	-	3, 4
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1	REF	REFRIGERATOR W/ WATER DISPENSER & ICE MAKER	SELECTION BY OWNER	1/2"	-	-	-	3

- NOTES:
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1 PUBLIC BUILDING WASTE PLAN  
N.T.S.



2 PUBLIC BUILDING WASTE PLAN  
N.T.S.

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DESIGN REVIEW  
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**GEORGETOWN PUBLIC WORKS BUILDING**  
 399 NORTH KAMINSKI ST.,  
 GEORGETOWN, SC  
 RAYMOND ENGINEERING  
 PUBLIC BUILDING WASTE & WATER PLAN

REVISIONS		
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TREC No.	1905-1742-05
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Checked by	MT
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**P2.0**  
 N.T.S.  
 PUBLIC BUILDING WASTE & WATER PLAN

**PLUMBING LEGEND**

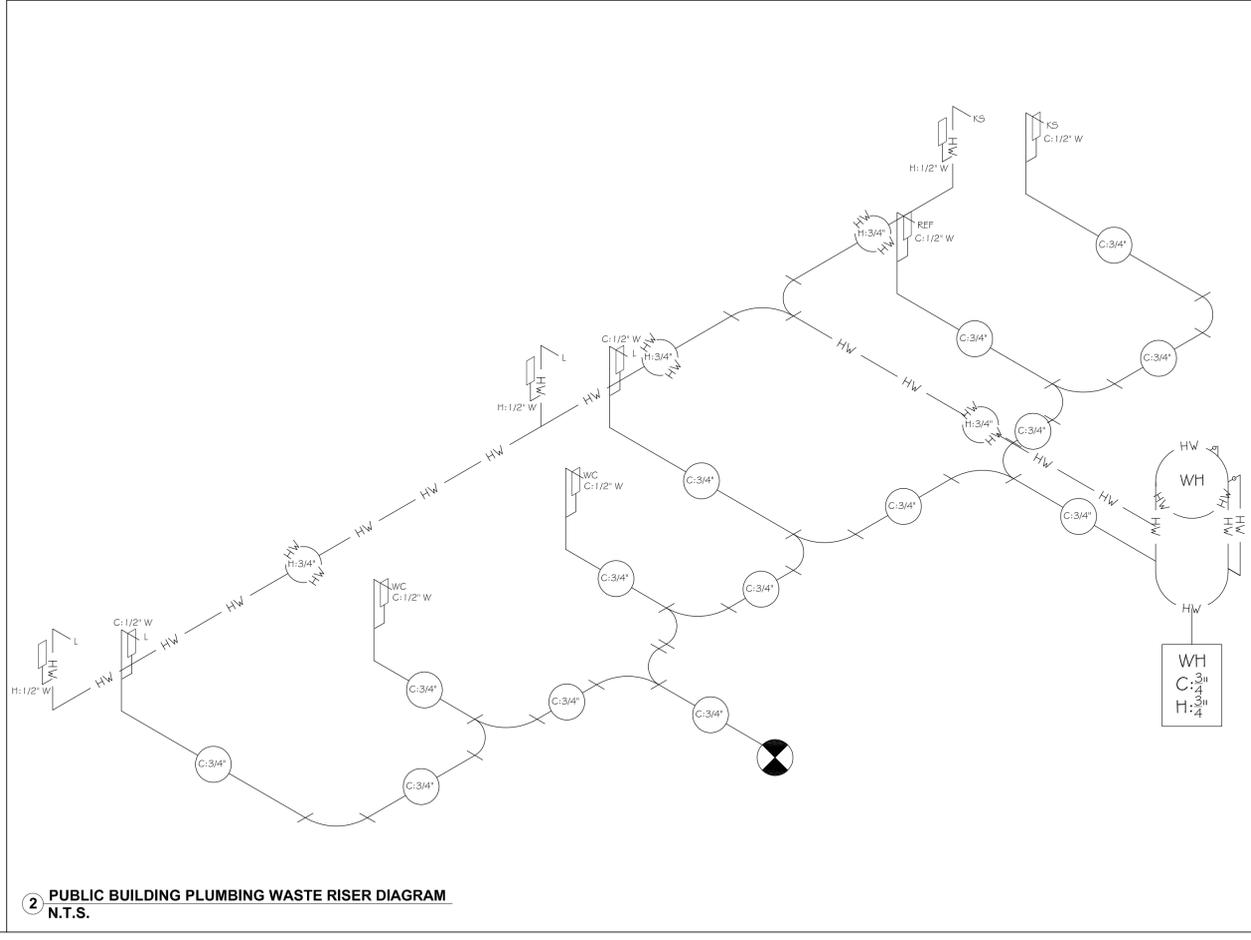
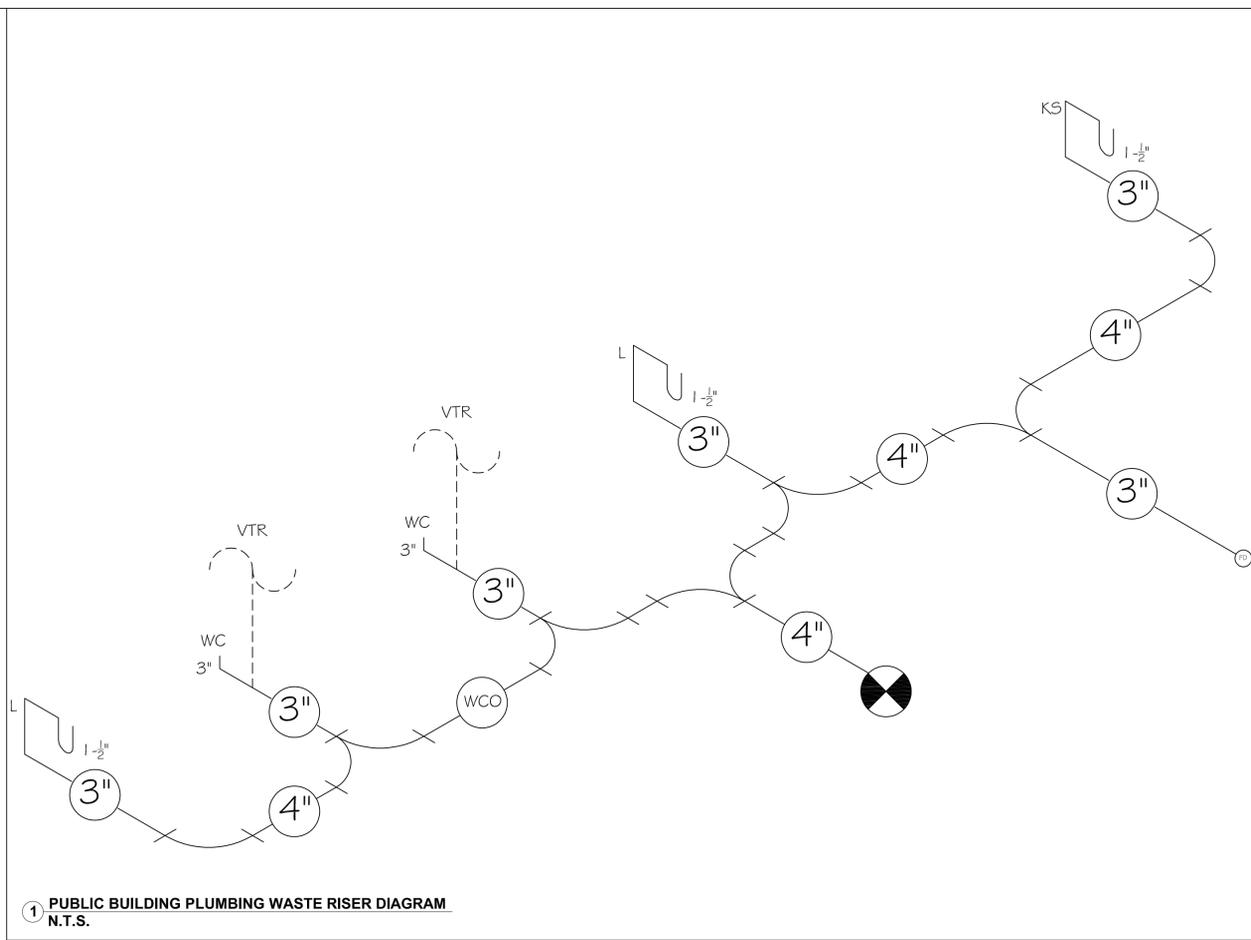
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	PRESSURE/TEMPERATURE RELIEF VALVE
FD	FLOOR DRAIN
VTR	VENT THRU ROOF
WCO	CLEAN OUT @ WALL

**PLUMBING EQUIPMENT & FIXTURE SCHEDULE**

QTY.	UNIT NAME	DESCRIPTION	MANUFACTURER MODEL	COLD INLET	HOT INLET	WASTE OUTLET	I.W.	NOTES
1	WH	50 GALLON ELECTRICAL HOT WATER HEATER	SELECTION BY OWNER	3/4"	3/4"	-	-	3, 5
2	WC	ADA RATED, FLOOR MOUNTED, 1.6 GPF WATER CLOSET MADE OF VITREOUS CHINA W/ 18" NOMINAL SEAT HEIGHT & FLUSH TANK	SELECTION BY OWNER	1/2"	-	3"	-	1, 2, 3
2	L	ADA RATED, DROP-IN, LAVATORY MADE OF VITREOUS CHINA W/ 4" CENTERED SINGLE LAYER FAUCET & GRID DRAIN	SELECTION BY OWNER	1/2"	1/2"	1-1/2"	-	3, 4
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1	REF	REFRIGERATOR W/ WATER DISPENSER & ICE MAKER	SELECTION BY OWNER	1/2"	-	-	-	3

**NOTES:**

- OPEN FRONT WATER CLOSET SEAT TO BE MADE OF HEAVY DUTY SOLID PLASTIC W/ STAINLESS STEEL SELF-SUSTAINING CHECK HINGE.
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**GEORGETOWN PUBLIC WORKS BUILDING**  
399 NORTH KAMINSKI ST., GEORGETOWN, SC  
RAYMOND ENGINEERING  
PUBLIC BUILDING WASTE & WATER RISER DIAGRAM

**REVISIONS**

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PUBLIC BUILDING WASTE & WATER RISER DIAGRAM

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**PLUMBING LEGEND**

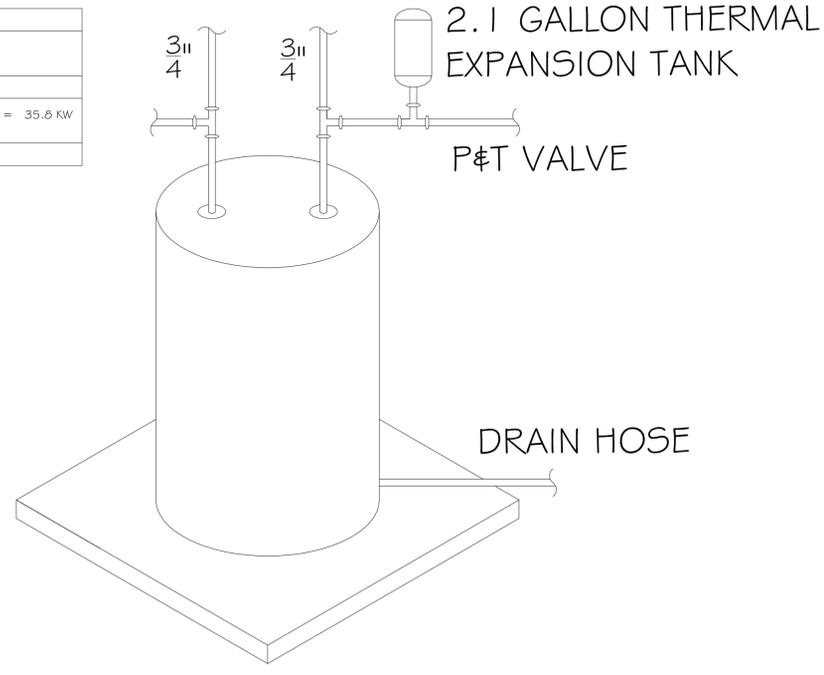
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**PLUMBING EQUIPMENT & FIXTURE SCHEDULE**

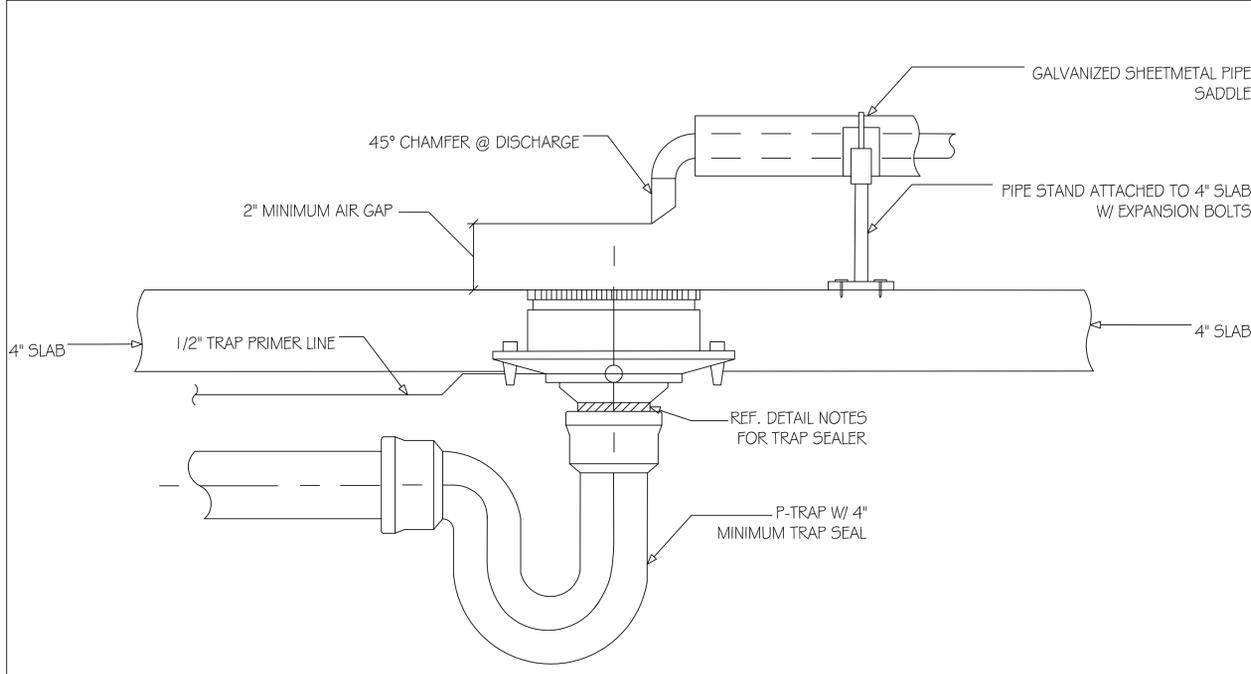
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  - HOT WATER HEATER DRAIN HOSE TO EMPTY ABOVE AN EXTERIOR WINDOW OR TO EMPTY TO THE NEAREST FLOOR SINK/HUB DRAIN/FLOOR DRAIN.

TYPICAL WATER HEATER CALCULATION  
 (4) L@1 = 4  
 (1) 2CS @ 1 = 1  
 TOTAL LOAD: 5 GPM X 60 X .80 = 240 - GPH DEMAND  
 $KW INPUT = \frac{GPH \times RISE \times LB. GAL.}{THERMAL EFFICIENCY} = \frac{240 GPH \times 60^\circ RISE \times 8.33 LB.}{.98 \times 3412 BTU/KW} = 35.8 KW$   
 USE 50 GAL. WATER HEATER



**1 HOT WATER HEATER DETAIL**  
N.T.S.



- DETAIL NOTES:**
- REFERENCE PLUMBING SPECIFICATION NOTES & PLUMBING WASTE NOTES FOR TRAP SEALERS & TRAP PRIMERS.
  - INSULATION REQUIRED ONLY FOR INDIRECT WASTE LINES RECEIVING CONDENSATE FROM REFRIGERATION EQUIPMENT. REFER TO PLANS AND COORDINATE FOR OTHER TRADES.
  - INDIRECT WASTE IS TO BE SPILLED OVER ALL OPENINGS IN DRAIN GRATES

**1 FLOOR DRAIN DETAIL**  
N.T.S.

DO NOT SCALE THE DRAWINGS. THE DESIGNER WILL NOT ACCEPT RESPONSIBILITY FOR CONSTRUCTION ERRORS DUE TO SCALING OF THE DRAWINGS. VERIFY ALL DIMENSIONS, FINISHES, FIXTURES, ETC. BEFORE BEGINNING CONSTRUCTION. IF DIMENSIONS OR DETAILS ARE OMITTED, INCORRECT, OR NOT CLEAR, THE CONTRACTOR SHALL CONSULT WITH THE DESIGNER FOR CLARIFICATION.  
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 ISSUE FOR CONSTRUCTION  
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DESIGN REVIEW  
09/09/2021

**Thomas & Reel**  
 Engineering Consultants, Inc.  
 trec | STRUCTURAL | MEP | FORENSICS  
 www.thomasreel.com  
 912-920-0950  
 9100 WHITE BLUFF RD, SUITE 306, SAVANNAH GEORGIA 31406  
 PO BOX 15818 SAVANNAH, GEORGIA 31416

**GEORGETOWN PUBLIC WORKS BUILDING**  
 399 NORTH KAMINSKI ST., GEORGETOWN, SC  
 RAYMOND ENGINEERING  
 HOT WATER HEATER & FLOOR DRAIN DETAIL

REVISIONS		
MARK	DATE	DESCRIPTION
	09/09/21	CITY COMMENTS

TREC No.	1905-1742-05
Date Printed	09/09/2021
Date Issued	09/09/2021
Designed By	KO
Checked by	MT
Approved by	MT

**P4.0**  
N.T.S.  
HOT WATER HEATER & FLOOR DRAIN DETAIL

# ELECTRICAL NOTES

## PART I - GENERAL

- A. Codes and Ordinances - The entire installation shall be strictly in accordance with the latest version of the National Electrical Code, and amendments of the local governing body.
- B. Tests - Provide test of all systems to demonstrate proper operation.
- C. Provide maintenance and operational instructions for all equipment. All panel boards, disconnect switches, control cabinets, etc., shall be clearly marked with identification externally and internally for each circuit.
- D. The contractor shall schedule all required inspections.
- E. Provide materials and equipment that are products of manufacturers regularly engaged in the production of such products which are of equal material, design and workmanship. Products shall have been in satisfactory commercial or industrial use for 2 years prior to bid opening. Products manufactured more than 3 years prior to date of delivery to site shall not be used, unless specified otherwise.
- F. Lighting shall comply with ASHRAE 90.1 where applicable.

## PART II - PRODUCTS

- A. As a minimum, meet requirements of UL, where UL standards are established for those items, and requirements of NFPA 70 for all materials, equipment, and devices.
- B. Light fixtures shall be as per plan. Emergency lighting shall be connected ahead of switch for lighting serving the area. Exit lighting shall be un-switched.
- C. Device plates shall be impact resistant nylon. Color selection by owner and may vary per location.(UL listed)
- D. Switches (NEMA WD 1,UL 20) and receptacles (NEMA WD1)shall be screw type side wire commercial grade and as per plan. Color selection by owner and may vary.
- E. Circuit Breaker and fused protected circuits shall be as per above referenced code.
- F. Outlet boxes and conduit boxes shall be metal, cadmium or zinc coated (UL514a).
- G. Conduit and/or conductors shall be concealed in walls and above GYPBOARD or suspended ceilings.Unless physically impossible. All exposed conduit shall be painted to match the surrounding surface.
- H. Equipment connections shall be made with short sections of flexible conduit (Sealtite in exterior locations) using compatible fittings.
- I. Conductors shall be 2 #12 AWG with 1 #12 AWG GND Copper w/THHN or THWN insulation in 1/2"conduit unless otherwise indicated on drawings. MC cable with 2 #12 AWG with 1 #12 AWG GND Copper w/THHN or THWN is acceptable.
- J. Provide grounding conductors in all conduit. Hash marks on drawing do not include grounding conductor.
- K. Disconnects switches: NEMA KS1. enclosures -Indoor NEMA 1, Outdoor Heavy Duty NEMA 3R. Provide label indicating source and load.
- L. Panelboard shall be UL 67 and UL 50 listed. Install a typewritten circuit directory on panel board cover interior, reflecting an "As Wired" condition after completion of wiring.Provide nameplate indicated name and feeder source. Circuit breakers shall be UL 489 thermal magnetic type with short rating as indicated on panel. Multiple shall be provided with common trip single operating handle. Arc-fault circuit interrupters SHALL be provided in accordance with NEC 2020 Article 210.12 and SHALL be UL 489 and UL 1699 listed and comply with NFPA 70. Surge Protection to be provided at service entrance as indicated.
- M. Contractor to verify all circuit requirements with actual equipment provided.
- N. Raceway Seal(S). Where a service raceway enters a building or structure from an underground distribution system, it shall be sealed in accordance with NEC 300.5(G). Spare or unused raceways shall also be sealed. SEALANTS shall be identified for use with the cable insulation, shield, or other components. Conduits or raceways through which moisture may contact live parts shall be sealed or plugged at either or both ends. Spare or unused raceways shall also be sealed. SEALANTS shall be identified for use with the cable insulation, conductor insulation, bare conductor, shield, or other components.
- O. All outlets and receptacles in all fire rated walls or partitions shall be fire stopped. All conduit in one- hour fire rated walls or partitions shall be EMT. Seal all points of penetration w/ 3M Fire Barrier caulk or equal.
- P. Penetrations of all fire rated wall with a fire rating of more than one hour shall be in accordance with an approved UL design.
- Q. Data and telephone by others.
- R. Fire Alarm by others.

## PART III - EXECUTION

- A. Remove all manufacturers labels and clean all exposed fixtures and equipment.
- B. Replace all damaged fixtures and equipment.
- C. Adjust or calibrate all items of equipment to assure proper operation.
- D. Make all wiring connections in outlet or junction boxes.
- E. Nameplates: ATM d709. Provide laminated plastic nameplates for each equipment enclosure, relay, switch, and device; as specified or as indicated on the drawings. Identify the function and, when applicable, the position. Minimum size of nameplates: one by 2.5 inches. Lettering size and style: a minimum of 0.25 inch high normal block style.
- F. WARNING signs - Provide warning signs for flash protection in accordance with NFPA 70E and NEMA Z535.4 for switchboards, panelboards. Provide field installed signs to warn qualified persons of potential electric arc flash hazards when warning signs are not provided by the manufacturer. Provide marking that is clearly visible to qualified persons before examination, adjustment, servicing, or maintenance of the equipment.

## PART IV - DEMOLITION

- A. Remove existing electrical wiring, lighting, receptacles, switches, wiring devices, etc.
- B. Disconnect and cap any conduit that cannot be removed.
- C. Consult owner for salvage of lighting that is removed.
- D. Do not use any wiring, devices, conduit, equipment, etc. removed.

## SPECIAL NOTES:

- A. DATA AND TELEPHONE BY GENERAL CONTRACTOR.  
- DATA AND TELEPHONE SHALL BE INSTALLED BY A LICENSED CONTRACTOR SPECIALIZING IN DATA AND TELEPHONE SYSTEMS. REQUIREMENTS SHALL BE PER INSTRUCTION FROM CITY. PLANS AND CATALOG SHEETS SHALL BE SUBMITTED TO CITY BEFORE CONSTRUCTION BEGINS.
- B. FIRE ALARM BY GENERAL CONTRACTOR.  
- FIRE ALARM SYSTEM SHALL BE DESIGNED AND INSTALLED BY A CERTIFIED FIRE ALARM SYSTEMS CONTRACTOR AND LICENSED IN THE STATE OF SOUTH CAROLINA. REQUIREMENTS SHALL PER NFPA AND INSTRUCTION FROM CITY. THE SYSTEM WILL INCLUDE 24/7/365 MONITORING WITH REPORTING TO THE LOCAL FIRE DEPARTMENT OR EMERGENCY SERVICES. PLANS AND CATALOG SHEETS SHALL BE SUBMITTED TO CITY BEFORE CONSTRUCTION BEGINS.
- C. SECURITY AND CCTV BY CITY. GENERAL CONTRACTOR TO COORDINATE WITH SECURITY CONTRACTOR.

1

# ELECTRICAL LEGEND

## LIGHTING

-  4' OR 2' LED STRIP FIXTURE FOR U/C. LETTER DENOTES TYPE GIVEN IN FIXTURE SCHEDULE.
-  2x2 LED PANEL SURFACE MOUNTED FIXTURE. LETTER DENOTES TYPE GIVEN IN FIXTURE SCHEDULE.
-  PENDANT / CEILING / WALL MOUNTED LIGHTING FIXTURE. LETTER DENOTES TYPE GIVEN IN FIXTURE SCHEDULE.
-  BATHROOM EXHAUST PLAN  
SEE MECHANICAL PLANS FOR LOCATION AND SIZE.
-  EMERGENCY LIGHT FIXTURE, WET LOCATIONS, BATTERY BACKUP
-  SINGLE POLE WALL SWITCH. MH MINIMUM 42" AFF
-  SINGLE POLE WALL SWITCH WITH MOTION SENSOR. MH MINIMUM 42" AFF
-  CEILING MOUNTED OCCUPANCY SENSOR

## POWER

-  20A DUPLEX RECEPTACLE; M.H.=1.5' AFF, UNLESS OTHERWISE INDICATED. COORDINATE RECEPTACLES ABOVE COUNTER TOP COUNTER TOP HT. "TV" INDICATES TV RECEPTACLE. MOUNT AT 72" AFF.
-  SAME AS ABOVE WITH GROUND FAULT CIRCUIT INTERRUPTER TYPE. WP= WEATHER PROOF AND IDENTIFIED AS "EXTRA DUTY". COORDINATE RECEPTACLES ABOVE COUNTER TOP COUNTER TOP HT.
-  SPLIT 20A DUPLEX RECEPTACLE; M.H.=1.5' AFF, UNLESS OTHERWISE INDICATED. LOWER SECTION CONTROLLED BY OCCUPANCY SENSOR. UPPER SECTION NOT CONTROLLED. SEE WIRING DIAGRAMS.
-  20A FLOOR DUPLEX RECEPTACLE; FLUSH MOUNT WITH BRASS HINGED COVER.
-  JUNCTION BOX CEILING / WALL MOUNTED, SIZED AS REQUIRED BY N.E.C.
-  MOTOR STARTER M.H. = 60 in TO TOP OF
-  MOTOR DISCONNECT/SAFETY SWITCH. M.H. = 60 in TO TOP OF ENCLOSURE UNLESS OTHERWISE INDICATED. SWITCHES TO BE RATED 30/3/NF UNLESS OTHERWISE INDICATED. ENCLOSURES TO BE RATED NEMA 1 UNLESS OTHERWISE INDICATED.  
"30" DENOTES AMPERE RATING;  
"3" DENOTES NUMBER OF POLES;  
"NF" DENOTES NON-FUSED;  
"3R" DENOTES NEMA ENCLOSURE RATING  
"F" DENOTES FUSE RATING; SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION

 CIRCUIT BREAKER PANELBOARD. SURFACE MOUNTED AS INDICATED IN SCHEDULE. SIZE AND RATINGS AS INDICATED IN SCHEDULE.

 HOMERUN TO PANELBOARD. NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. "A" INDICATES PANELBOARD THE HOMERUN IS SERVED FROM; "1,3" INDICATES THE CIRCUIT NUMBERS IN THE PANELBOARD FOR CONNECTION.

 HASH MARKS INDICATE NUMBER OF SIZE 12 AWG CURRENT CARRYING CONDUCTORS IN 3/4 IN. RACEWAY, UNLESS OTHERWISE INDICATED. RACEWAYS WITHOUT HASH (NOTE: GROUNDING CONDUCTORS SHALL BE PROVIDED BUT ARE NOT INDICATED BY HASHMARKS.)

 SYSTEM GROUND (NEC ARTICLE 250-50)

## COM

-  COM OUTLET BOX. M.H. =1.5" AFF, UNLESS OTHERWISE INDICATED. EXTEND 3/4" CONDUIT FROM BOX TO ATTIC WITH PULL CHORD. "TV" INDICATES OUTLET FOR TV. MOUNT AT 72" AFF.
-  COM FLOOR OUTLET BOX. FLUSH MOUNT WITH BRASS HINGED COVER. EXTEND 3/4" CONDUIT FROM BOX TO NEAREST WALL THEN TO ATTIC WITH PULL CHORD.
-  4'X4'X3/4" TELEPHONE BACKBOARD. COORDINATE REQUIREMENT WITH COM PROVIDER.

 TELE BKBD

# ABBREVIATIONS

- A AMPERE
- AFF ABOVE FINISHED FLOOR
- AL ALUMINUM
- 1/C ONE CONDUCTOR
- 3/C THREE CONDUCTOR
- C CONDUIT
- CATV CABLE TELEVISION
- CB CIRCUIT BREAKER
- CKT CIRCUIT
- CU COPPER
- DIA DIAMETER
- EB ENCASED BURIAL
- EF EXHAUST FAN
- EWC ELECTRIC WATER COOLER
- EXP EXPLOSION PROOF
- FACP FIRE ALARM CONTROL PANEL
- GF GROUND FAULT CIRCUIT INTERRUPTER
- GFP GROUND FAULT PROTECTION
- HPS HIGH PRESSURE SODIUM
- HT HEIGHT
- HZ HERTZ
- JB JUNCTION BOX
- LED LIGHT EMITTING DIODE
- M METERS
- mm/MM MILLIMETERS
- MCB MAIN CASE BREAKER
- MCP MECHANICAL CONTROL PANEL
- M.H. MOUNTING HEIGHT
- MLO MAIN LUGS ONLY
- N.E.C. NATIONAL ELECTRICAL CODE
- NF NON FUSED
- NIC NOT IN CONTRACT
- NO. NUMBER
- PH PHASE
- SPS STANDBY POWER SYSTEM
- SWD SWITCHING DUTY
- TC/SW TIME CLOCK AND H-O-A SWITCH
- U.N.O. UNLESS NOTED OTHERWISE
- V VOLT
- VA VOLTAMPERE
- VAV VARIABLE AIR VOLUMN
- VSD VARIABLE SPEED DRIVE
- W WATTS
- WH WATER HEATER
- WP WEATHER PROOF

## CONSTRUCTION DRAWING



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**GEORGETOWN PUBLIC WOKRS BUILDING**

2 NORTH KAMINSKI STREET  
GEORGETOWN, SC  
ELECTRICAL NOTES, LEGEND, & ABBREVIATIONS

## REVISIONS

MARK	DATE	DESCRIPTION
1	10SEP21	SPCL NOTES & 200 AMP MAIN

Project No.	
Date Printed	9/10/2021
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Designed By	FDB
Checked by	FDB
Approved by	FDB

# E001

ELECTRICAL NOTES, LEGEND, & ABBREVIATIONS

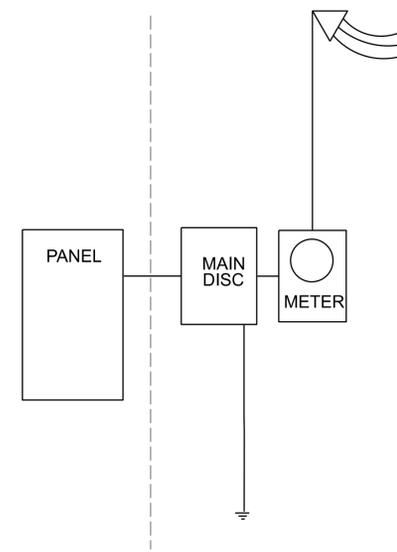
DO NOT REPRODUCE WITHOUT THE EXPRESSED WRITTEN PERMISSION OF FREDERICK D. BLACKBURN, JR., P.E.

# SCHEDULE OF NEW PANEL

VOLTAGE: 240 / 120 PHASE: 1 WIRE: 3  
 BUS AMPS: 200 A DEVICE AMPS: 200 A MLO NEMA: 1  
 A.I.C RATING: 22,000 A MOUNTING: SURFACE

LOCATION DESCRIPTION	LOAD (KVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD TYPE	LOAD (KVA)	LOCATION DESCRIPTION
REFRIGERATOR	1.5	C	20/1	1	A	2	40/2	E	2.6	COMP UNIT
KITCHEN RECEPES	0.4	B	20/1	3	B	4		E	2.6	
KITCHEN RECEPES	0.4	B	20/1	5	A	6	60/2	E	4.8	AHU
RECEPES - BR, STORAGE, AND CIRC.	1.1	B	20/1	7	B	8		E	4.8	
RECEPES - EXT., VEST., AND CIRC.	0.9	B	20/1	9	A	10	30/2	H	2.3	WATER HEATER
RECEPTE TELE BACKBOARD	0.4	B	20/1	11	B	12		H	2.3	
LTG - CIRC., RRs, KIT., MECH, VEST.	0.6	A	20/1	13	A	14	20/1	H	0.5	RECEPT - TV
RECEPT & LTG OFFICE DIRECTOR	0.8	B	20/1	15	B	16	20/1	B	1.1	RECEPES AND LTG CONF.
RECEPT & LTG OFFICE	0.8	B	20/1	17	A	18	20/1	A	0.9	LTG - CONF.
RECEPT & LTG OPEN OFFICE	0.8	B	20/1	19	B	20	20/1	H	1.5	COPY MACHINE
RECEPT & LTG OFFICE	1.2	B	20/1	21	A	22	20/1	B	0.5	RECEPT - MECH RM
			20/1	23	B	24				
				25	A	26				
				27	B	28				
				29	A	30				
				31	B	32				
				33	A	34				
				35	B	36				
				37	A	38				
				39	B	40				

PANEL LOAD ANALYSIS									
Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2020 NEC Reference	Load Type	DESCRIPTION	Conn. KVA	Demand KVA	2020 NEC Reference
A	Lighting	1.5	1.9	NEC Table 220.42	E	Heating	14.8	14.8	NEC Article 220.60
B	Receptacles	8.3	8.3	NEC Table 220.44	F	Largest Motor	0.0	0.0	NEC Article 440.7
C	Kitchen Equipment	1.5	1.0	NEC Table 220.56	G	Other Motors	0.0	0.0	NEC Article 440.7
D	Air-Conditioning	0.0	0.0	NEC Article 440.32	H	Other Loads	6.5	6.5	
Phase A Connected Load		17.0 KVA	<b>Notes:</b>		TOTAL CONNECTED LOAD		32.7 KVA	136.3	AMPS
Phase B Connected Load		15.7 KVA			TOTAL DEMAND LOAD		32.6 KVA	135.7	AMPS



1 ELECTRICAL RISER DIAGRAM  
 E002 NTS

- NOTES:
- COORDINATE WITH ELECTRICAL DEPARTMENT FOR METER BASE AND CONNECTION TO POWER SERVICE DROP.
  - INSTALLATION SHALL COMPLY WITH THE LATEST ADOPTED NEC AND APPLICABLE LOCAL CODES.
  - GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250 OF THE NEC. AS A MINIMUM PROVIDE 1#6AWG CU AND 10' COPPER CLAD GROUND ROD.
  - SEE CONDUCTOR AND CONDUIT SCHEDULE.

## CONDUCTOR AND CONDUIT SCHEDULE

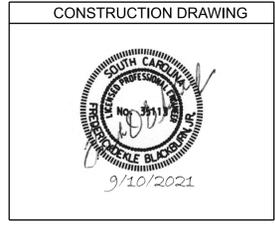
NO.	DESCRIPTION	VOLTAGE	PHASE	AMPS	MCA	MOSP	WATTS	QTY	CONNECTION TYPE	BREAKER	CONDUIT AND CONDUCTOR
1	SERVICE TO MAIN DISC	240/120	1	N/A	N/A	200	N/A	1	WEATHERHEAD & METER BASE	200/2	3-3/0 AWG THHW CU IN 1-1/2" CONDUIT
2	SERVICE TO PANEL	240/121	1	N/A	N/A	200	N/A	1	HARDWIRE	200/2	3-3/0 AWG AND 1#6 AWG GND THHW CU IN 2-1/2" CONDUIT
3	CU	240/120	1	21.9	27.3	40	5244	1	NEMA 3R 60A 250V 2P3W NF	40/2	3#8 AWG AND 1 #10AWG GND THHN CU IN 3/4 IN CONDUIT
4	AHU	240	1	40	50	60	9600	1	NEMA 1 60A 250V 2P3W NF	60/2	3#6 AWG AND 1 #10AWG GND THHN CU IN 3/4 IN CONDUIT
5	WATER HEATER	240	1	18.8	23.4	30	4500	1	NEMA 1 60A 250V 2P3W NF	30/2	3#10 AWG AND 1 #10AWG GND THHN CU IN 3/4 IN CONDUIT

## LIGHT FIXTURE SCHEDULE (BASIS OF DESIGN)

MARK	MOUNTING TYPE	DESCRIPTION	NO OF LPS	TYPE LP	WATTS	BASIS OF DESIGN
A	SURFACE	2X2 SURFACE MOUNTED PANEL	1	LED	29	LITHONIA 2ACLX2 33L EZB LP835 N80
B	U/C	4 FOOT STRIP LED (Not Used)	1	LED	19.5	LITHONIA UCL 48IN 30K 90CRI WH
C	U/C	2 FOOT STRIP LED	1	LED	10.2	LITHONIA UCL 24IN 30K 90CRI WH
D	SURFACE	DISC LED FLUSHMOUNT 7IN DIMMABLE	1	LED	15.5	WAC LIGHTING LUMENS WACP160070 1010 LM 120V 90CRI 3000K WHITE
DX	SURFACE	DISC LED FLUSHMOUNT SIN	1	LED	12.5	WAC LIGHTING LUMENS WACP160070 835LM 120V 90CRI 3000K WHITE
EMC	CEILING	CEILING MOUNTD EXIT LIGHT RED	1	LED	1	LITHONIA EXRG EL M6
EMX	WALL	COMBO UNIT EMERGENCY / EXIT RED	2	LED	2	LITHONIA ECRG RD M6
EM	WALL	EMERGENCY LIGHT	2	LED	0.33	LITHONIA EU2L M12 OR EQUAL
EM1	WALL	EMERGENCY LIGHT - EXTERIOR	1	LED	2.8	LITHONIA AFO DB MVOLT NSDCW OR EQUAL
W	WALL	EXTERIOR ENTRY LIGHT FIXTURE WITH PHOT CONTROL	1	LED	8	KENALL SENTINALL S711D P MW 8635K 120 BPC

NOTE: ALL FINISHES FOR LIGHTING SHALL BE SUBMITTED AND APPROVED BY OWNER/ ARCHITECT. EQUALS ARE ACCEPTABLE WHEN APPROVED BY ARCHITECT / ENGINEER.

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**GEORGETOWN PUBLIC WOKRS BUILDING**

2 NORTH KAMINSKI STREET  
 GEORGETOWN, SC

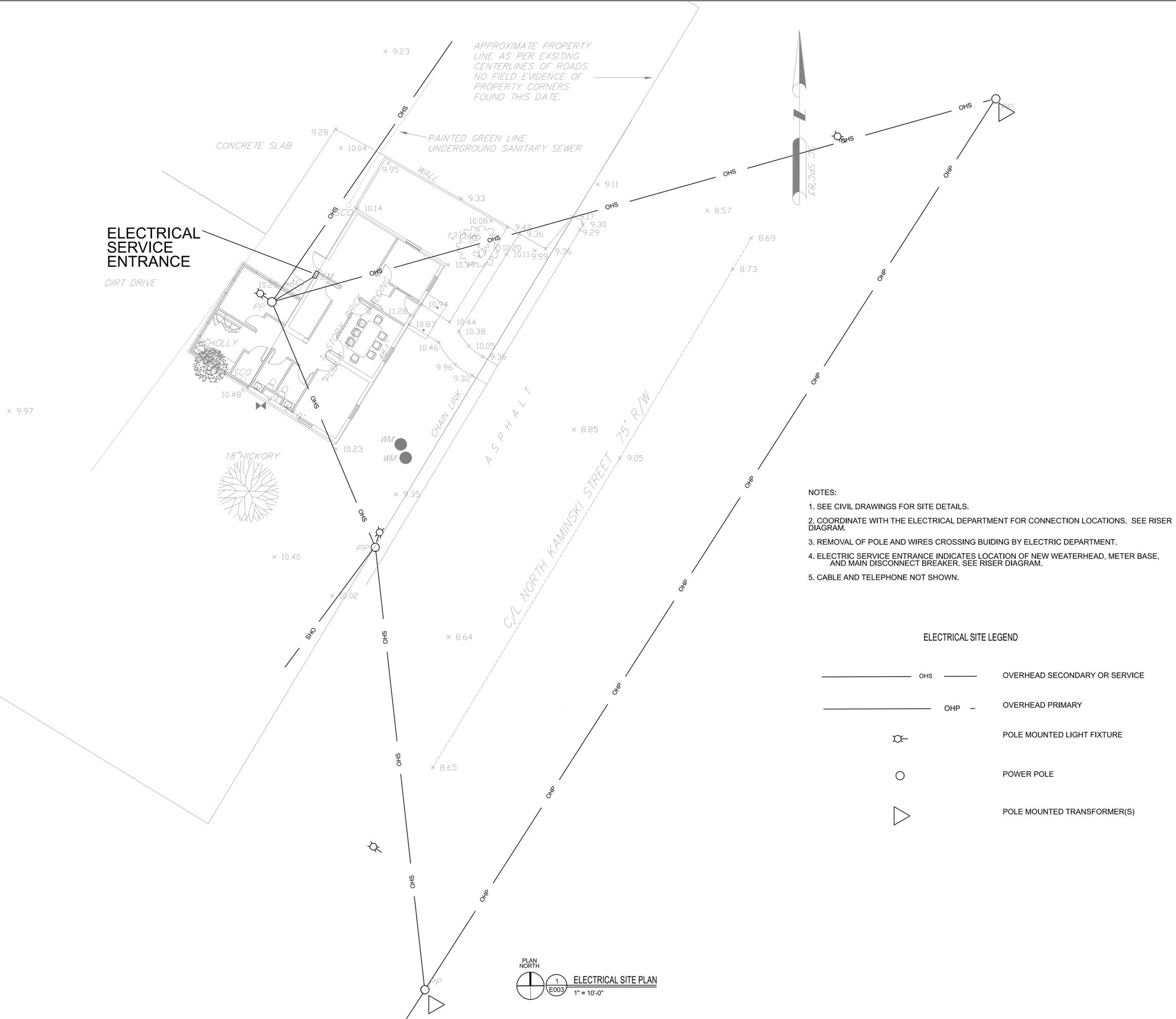
ELECTRICAL RISER DIAGRAM AND SCHEDULES

REVISIONS		
MARK	DATE	DESCRIPTION
1	10SEP21	SPCL NOTES & 200 AMP MAIN

Project No.	
Date Printed	9/10/2021
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Designed By	FDB
Checked by	FDB
Approved by	FDB

**E002**

ELECTRICAL RISER DIAGRAM AND SCHEDULES



APPROXIMATE PROPERTY LINE AS PER EXSITING CENTERLINES OF ROADS. NO FIELD EVIDENCE OF PROPERTY CORNERS FOUND THIS DATE.

ELECTRICAL SERVICE ENTRANCE

NOTES:

1. SEE CIVIL DRAWINGS FOR SITE DETAILS.
2. COORDINATE WITH THE ELECTRICAL DEPARTMENT FOR CONNECTION LOCATIONS. SEE RISER DIAGRAM.
3. REMOVAL OF POLE AND WIRES CROSSING BUILDING BY ELECTRIC DEPARTMENT.
4. ELECTRIC SERVICE ENTRANCE INDICATES LOCATION OF NEW WEATHERHEAD, METER BASE, AND MAIN DISCONNECT BREAKER. SEE RISER DIAGRAM.
5. CABLE AND TELEPHONE NOT SHOWN.

ELECTRICAL SITE LEGEND

- OHS ————— OVERHEAD SECONDARY OR SERVICE
- OHP ————— OVERHEAD PRIMARY
- ☉ POLE MOUNTED LIGHT FIXTURE
- POWER POLE
- △ POLE MOUNTED TRANSFORMER(S)

PLAN NORTH  
 1  
 E003  
 ELECTRICAL SITE PLAN  
 1" = 10'-0"

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CONSTRUCTION DRAWING

**GEORGETOWN PUBLIC WOKRS BUILDING**

2 NORTH KAMINSKI STREET  
 GEORGETOWN, SC

ELECTRICAL NOTES, LEGEND & ABBREVIATIONS

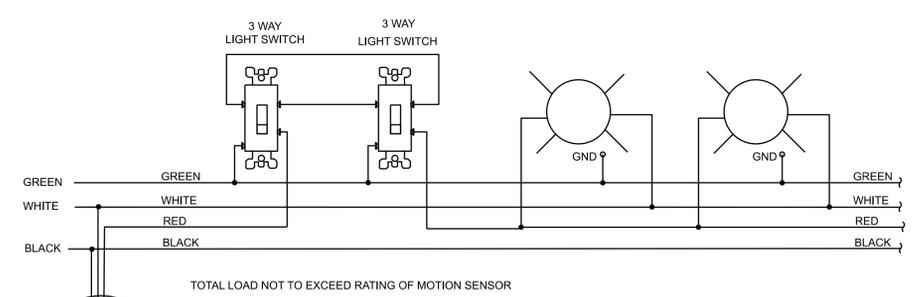
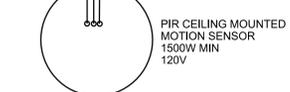
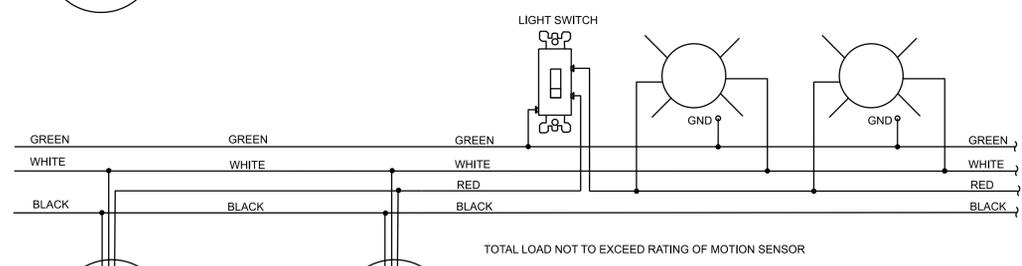
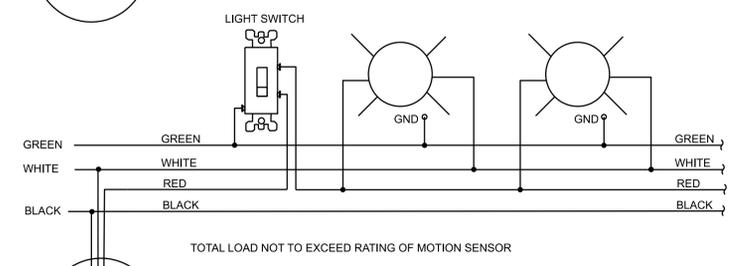
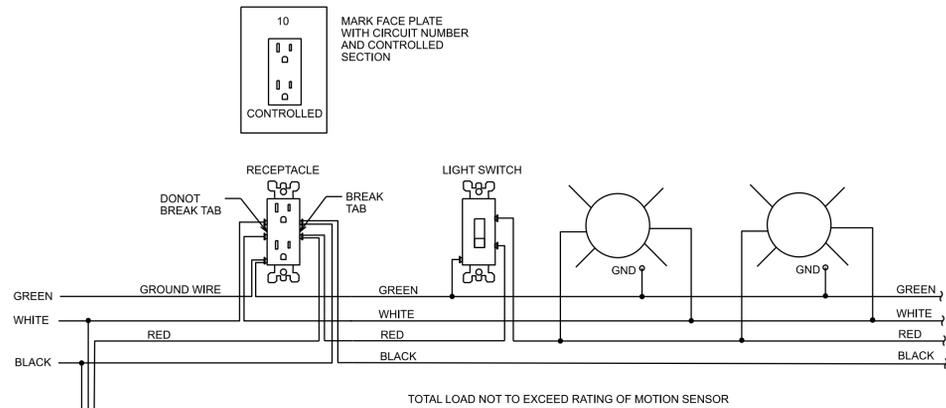
REVISIONS		
MARK	DATE	DESCRIPTION

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Checked by	FDB
Approved by	FDB

**E003**

ELECTRICAL SITE PLAN





1 E004 ELECTRICAL WIRING DIAGRAMS  
NTS

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CONSTRUCTION DRAWING

**GEORGETOWN PUBLIC WOKRS BUILDING**

2 NORTH KAMINSKI STREET  
GEORGETOWN, SC

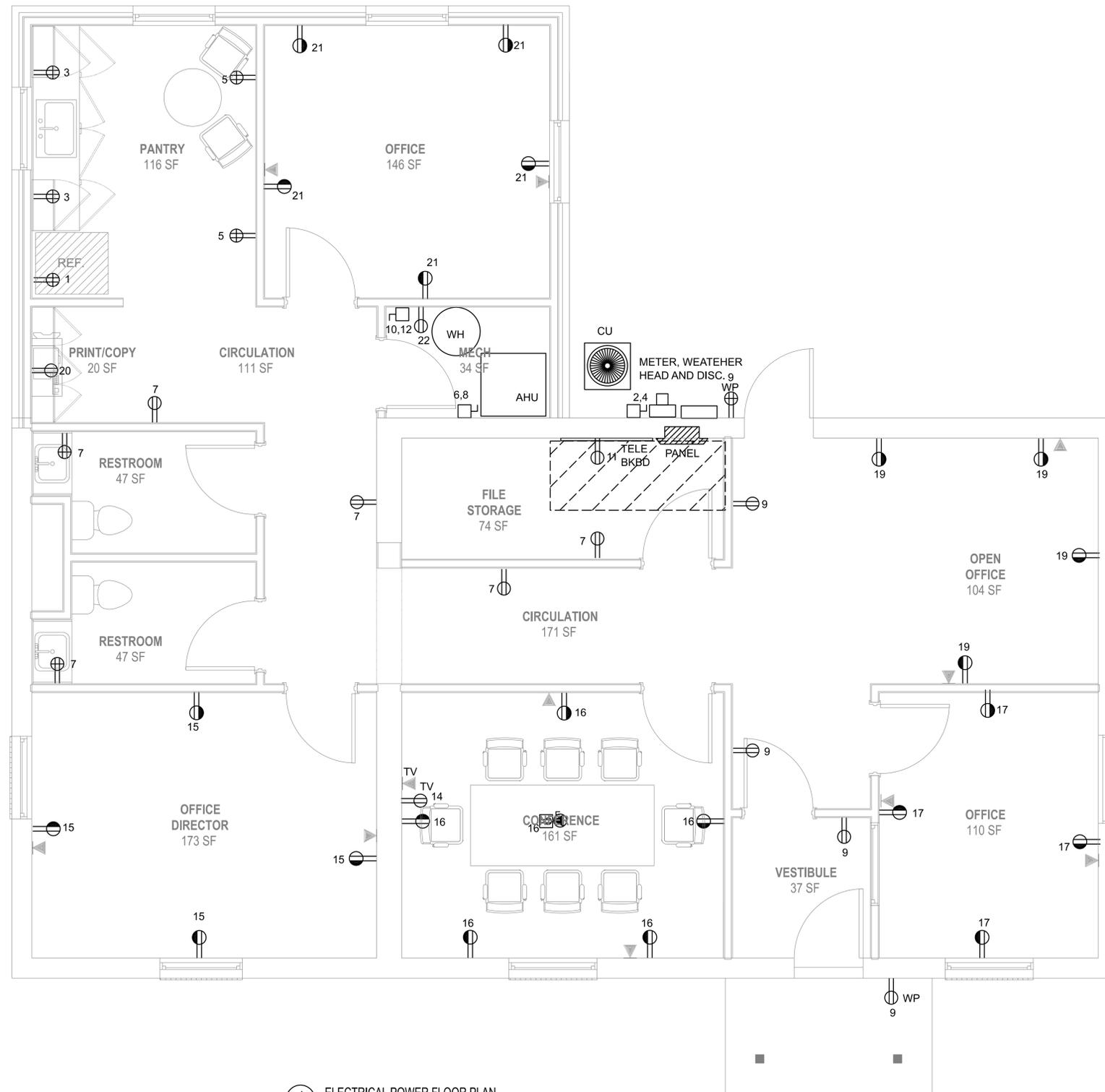
ELECTRICAL RISER DIAGRAM AND SCHEDULES

REVISIONS		
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Date Printed	7/7/2021
Date Issued	7/7/2021
Designed By	FDB
Checked by	FDB
Approved by	FDB

**E004**

ELECTRICAL DETAILS



1  
E100 ELECTRICAL POWER FLOOR PLAN  
3/8" = 1'-0"

1. SEE WIRING DIAGRAM FOR SWITCH RECEPTACLES. RECEPTACLES, WHERE INDICATED TO BE CONTROLLED BY MOTION SENSOR.

2. PROVIDE EMPTY CONDUIT WILL PULL CHORD ONLY TO COM / DATA RECEPTACLES.

NOTE:  
TOTAL NET SF = 1,449

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CONSTRUCTION DRAWING



**GEORGETOWN PUBLIC WORKS BUILDING**

2 NORTH KAMINSKI STREET  
GEORGETOWN, SC

ELECTRICAL FIRST FLOOR POWER PLANS

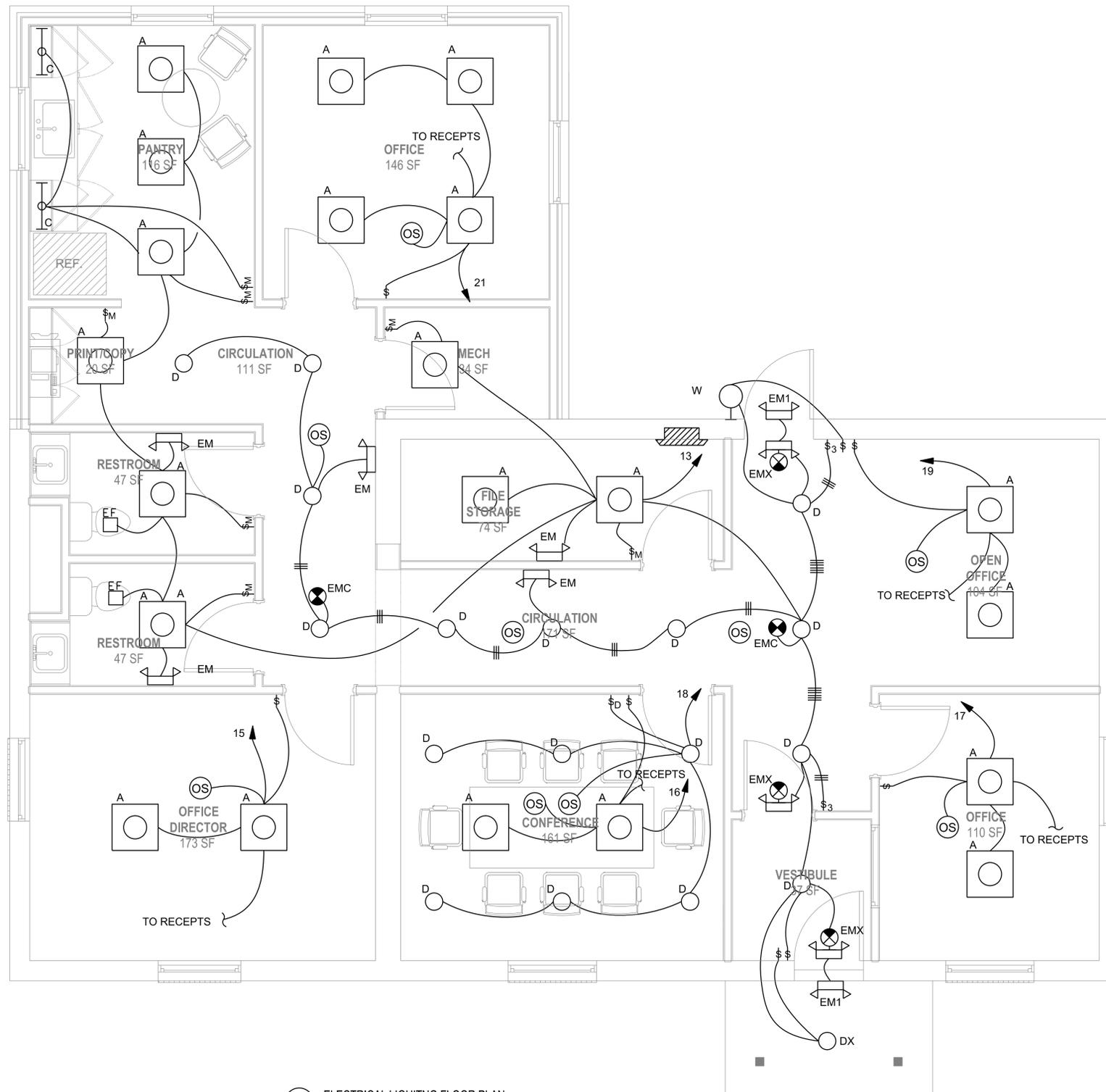
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REVISIONS		
MARK	DATE	DESCRIPTION

Project No.	
Date Printed	7/7/2021
Date Issued	7/7/2021
Designed By	FDB
Checked by	FDB
Approved by	FDB

**E100**

ELECTRICAL POWER FLOOR PLAN



1 ELECTRICAL LIGHTING FLOOR PLAN  
E100 3/8" = 1'-0"

1. EXHAUST FANS TO BE SWITCHED WITH LIGHTING INCLUDING CONTROL BY OCCUPANCY SENSOR.

NOTE:  
TOTAL NET SF = 1,449

DO NOT SCALE THE DRAWINGS. THE DESIGNER WILL NOT ACCEPT RESPONSIBILITY FOR CONSTRUCTION ERRORS DUE TO SCALING OF THE DRAWINGS. VERIFY ALL DIMENSIONS, FINISHES, FIXTURES, ETC. BEFORE BEGINNING CONSTRUCTION. IF DIMENSIONS OR DETAILS ARE OMITTED, INCORRECT, OR NOT CLEAR, THE CONTRACTOR SHALL CONSULT WITH THE DESIGNER FOR CLARIFICATION.

CONSTRUCTION DRAWING

**GEORGETOWN PUBLIC WORKS BUILDING**

2 NORTH KAMINSKI STREET  
GEORGETOWN, SC

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**E200**

ELECTRICAL LIGHTING FLOOR PLAN