Greenville
NORTH CAROLINA

THE EAST GROUP

CITY OF GREENVILLE

FIRE STATION NO. 2
EXPANSION AND ROOF REPLACEMENT

TEG PROJECT NO. 20160246
CITY OF GREENVILLE WORK ORDER NO. 24

ISSUED FOR CONSTRUCTION

October 26, 2017

1 **VICINITY MAP & CONTRACTOR STAGING PLAN**
NTS

General Staging Notes

1. CONTRACTOR STAGING AND PARKING TO OCCUR IN GRASS LOT BEHIND FIRE STATION PARKING LOT.
2. GRASS LOT TO BE RETURNED TO ITS ORIGINAL CONDITION AT THE CONCLUSION OF THE PROJECT.
3. FIRE STATION SHIFT CHANGE OCCURS FROM 7-8AM AT WHICH TIME FIRE STATION PARKING LOT WILL NEED TO BE FULLY ACCESSIBLE.

Construction Notes

GENERAL CONSTRUCTION NOTES:

1. UNLESS OTHERWISE NOTED, DIMENSIONS ARE TO COLUMN CENTERLINE, FACE OF GYPSUM BOARD PARTITION, FACE OF MASONRY WALLS AND FACE OF EXISTING WALLS.
2. ALL CUTTING AND PATCHING SHALL BE DONE BY THE GENERAL CONTRACTOR AS OUTLINED IN THE SPECIFICATIONS. PATCHES IN FINISH SURFACES SHALL MATCH THE ADJACENT SURFACES IN MATERIAL, FINISH AND QUALITY.
3. NEW WORK EXTENDING EXISTING CONDITIONS SHALL ALIGN WITH AND MATCH EXISTING WORK EXCEPT WHERE OTHERWISE DIMENSIONED OR DETAILED.
4. INSTALL CONTINUOUS WOOD 2 X 6 BLOCKING BETWEEN STUDS OR CONTINUOUS 16 GAUGE GALVANIZED METAL STRAPPING FOR ALL WALL MOUNTED ACCESSORIES, FIXTURES, BRACKETS, OFCI ITEMS AND MISCELLANEOUS SPECIALTIES UNLESS OTHERWISE NOTED.
5. DUE TO MANUFACTURER'S VARIATION WITH SIZE OF EQUIPMENT, CASEWORK, PLUMBING FIXTURES, ETC., ALL DIMENSIONS REFERRING TO THE SPACE WHERE SUCH ITEMS ARE BUILT-IN SHALL BE VERIFIED WITH THE ITEM SUPPLIED.
6. WELDING, SOLDERING AND OTHER SMOKE-PRODUCING CONSTRUCTION ACTIVITIES ARE PERMITTED INSIDE THE FACILITY WHEN APPROVED BY THE OWNER, WHEN A "HOT WORK" PERMIT IS OBTAINED, AND WHEN PROPER MEASURES ARE TAKEN TO PREVENT FUMES FROM CIRCULATING WITHIN THE BUILDING.
7. CONTRACTOR SHALL VERIFY THE OWNER'S REQUIREMENTS FOR INTERIM LIFE SAFETY MEASURES TO BE ENFORCED DURING CONSTRUCTION PRIOR TO THE START OF CONSTRUCTION.
8. THE OWNER'S SAFETY PERSONNEL HAVE THE AUTHORITY TO ORDER WORK TO BE STOPPED IF, IN THEIR OPINION, VISITORS OR STAFF MEMBERS ARE BEING PLACED AT UNNECESSARY OR UNACCEPTABLE RISK OF CONSTRUCTION HAZARDS.
9. ANY CONSTRUCTION SAFETY RELATED DISCREPANCIES SHALL BE CORRECTED PRIOR TO THE OWNER'S OCCUPANCY OF THE PROJECT AREA.
10. REMOVE AND REPLACE ANY ABSORBENT MATERIAL THAT BECOMES WET, THAT CANNOT BE TOTALLY DRIED WITHIN 24 HOURS OF INCIDENT, WITH NEW MATERIALS. ABSORBENT MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, GYPSUM BOARD, INSULATION, CARPET, AND CEILING TILE.
11. THE CONTRACTOR SHALL COMPLETE THE CLEANING OF THE PROJECT AREA AS REQUIRED IN THE PROJECT MANUAL PRIOR TO TURNING THE AREA OVER TO THE OWNER.
12. ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE NFPA 241 STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, LATEST EDITION, UNLESS A MORE STRINGENT REQUIREMENT IS INCLUDED IN THE LOCAL CODES AND/OR CONTRACT DOCUMENTS.

FINISH NOTES:

1. ALL NEW FLOOR, BASE, WALL AND CEILING FINISHES SHALL MATCH THE EXISTING FINISHES, UNLESS OTHERWISE NOTED.
2. FOR EXISTING CEILING PATCHING, WHERE CEILING IS CUT OUT OR PORTIONS REMOVED FOR REMOVAL OF EXISTING FOR INSTALLATION OF NEW MECHANICAL, ELECTRICAL AND PLUMBING WORK, DISTURBED PORTION SHALL BE PATCHED TO MATCH THE EXISTING CEILING FINISH BY THE RESPONSIBLE TRADE AS DEFINED BY THE GENERAL REQUIREMENTS OF THE SPECIFICATIONS. UNLESS OTHERWISE NOTED, THE ENTIRE CEILING AREA IS TO BE REPAINTED WHERE CEILINGS ARE GYPSUM BOARD OR PLASTER.
3. WHERE NEW FINISHES ARE APPLIED TO EXISTING, THE EXISTING FINISHES SHALL BE REMOVED AND/OR THE EXISTING SURFACES PREPARED AS REQUIRED TO RECEIVE NEW FINISHES, UNLESS OTHERWISE NOTED. WHERE REQUIRED TO ACCOMMODATE THE NEW FINISHES, THE MECHANICAL, PLUMBING AND ELECTRICAL TRADES SHALL DISCONNECT AND REMOVE THEIR RESPECTIVE DEVICES AND ITEMS FROM THE EXISTING WALL, CEILING AND/OR FLOOR AND RELOCATE TO THEIR FINAL POSITION IN THE NEW CONSTRUCTION. SUCH DEVICES SHALL INCLUDE BUT NOT BE LIMITED TO ELECTRICAL SWITCHES, PANELS, OUTLETS, THERMOSTATS, GRILLES, PLUMBING FIXTURES, ETC. THE RESPECTIVE TRADE SHALL ALSO BE RESPONSIBLE FOR ANY PERMANENT CONNECTIONS OF THOSE ITEMS WHICH ARE RELOCATED.
4. WHERE WALL SURFACES ARE PATCHED TO MATCH THE EXISTING, THE NEW FINISH SHALL BE APPLIED TO THE NEAREST CORNER OR BREAK IN THE WALL PLANE, UNLESS NOTED OTHERWISE.
5. WHERE EXISTING WALLS ARE TO RECEIVE A NEW FINISH, ANY EXISTING PAINTED ITEMS IN OR ON THE WALL (DOORS, DOOR FRAMES, ELECTRICAL PANELS, ETC.) SHALL BE REPAINTED TO MATCH OR COORDINATE WITH THE NEW FINISH.
6. IN ALL ROOMS SCHEDULED TO RECEIVE NEW FINISHES OR MILLWORK THAT IS TO RECEIVE NEW FINISHES, EXISTING PLUMBING FIXTURES AND ACCESSORIES SHALL BE TEMPORARILY REMOVED AS REQUIRED TO ALLOW THE NEW FINISH TO EXTEND UNDER OR BEHIND THE FIXTURE OR ACCESSORY.

FIRE AND/OR SMOKE WALL PENETRATION REQUIREMENTS:

1. ALL FIRE AND/OR SMOKE RATED PARTITIONS AND CORRIDOR PARTITIONS SHALL EXTEND FROM THE FINISHED FLOOR TO WHERE IT MAY BE SEALED TIGHT, SUCH AS THE UNDERSIDE OF THE STRUCTURE OR DECK ABOVE. ALL PENETRATIONS THROUGH SUCH PARTITIONS SHALL BE SEALED PER THE APPROPRIATE APPROVED TESTED RATED DESIGN ASSEMBLY FOR THE WALL RATING DESIGNATED.
2. PROVIDE APPROVED TESTED RATED PUTTY PADS ON ALL STEEL BOXES CLOSER THAN 24" O.C. IN RATED WALLS. SEE G SERIES DRAWINGS FOR ACCEPTED ASSEMBLIES.
3. DEVICES CONTAINED IN METALLIC BOXES IN RATED WALL OPENINGS OF 2 HOURS OR LESS NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED THE AREA OF SUCH OPENINGS DOES NOT AGGREGATE MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF FIRE RESISTANT WALL AREA OR SHAFT ENCLOSURE WALL AREA. THE GYPSUM BOARD FACE MUST BE CUT SO THAT THE CLEARANCE FROM THE BOX DOES NOT EXCEED 1/8". BOXES ON OPPOSITE SIDES OF THE FIRE RESISTANT WALL OR SHAFT ENCLOSURE SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES, OR BE COMPLETELY COVERED WITH PUTTY PADS PER THE APPROVED TESTED RATED DESIGN ASSEMBLY.

DEMOLITION NOTES:

1. ALL DEMOLITION WORK SHALL BE PERFORMED WITH "DUE CARE AND DILIGENCE" SO AS TO PREVENT THE ARBITRARY DESTRUCTION OR INTERRUPTION OF CONCEALED UTILITIES WHICH ARE INTENDED TO REMAIN IN USE AND THE ROUTING OF WHICH COULD NOT BE PREDETERMINED UNTIL DEMOLITION WAS STARTED. ALL SUCH DISCOVERIES OF UTILITIES DURING THE DEMOLITION PROCESS WHICH ARE IN A LOCATION DIFFERENT FROM THAT INDICATED, CHANGE DIRECTION FROM FLOOR TO FLOOR, ETC. OR ARE UNIDENTIFIED SHALL BE REPORTED TO THE ARCHITECT BEFORE REMOVAL.
2. THE DEMOLITION DRAWINGS GENERALLY INDICATE THE REMOVAL OF ITEMS WHICH ARE IN VIEW OR BELIEVED TO BE CONCEALED (SUCH AS EXISTING COLUMNS CONCEALED WITHIN WALLS, ETC.) THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT, IN WRITING, OF THE FOLLOWING CONDITIONS, BEFORE SUCH CONDITIONS ARE DISTURBED AND BEFORE ANY DELAY OR COST IS INCURRED BY THE CONTRACTOR:
   A. CONCEALED OR UNKNOWN CONDITIONS ENCOUNTERED WHICH DIFFER MATERIALLY FROM THOSE INDICATED OR REASONABLY IMPLIED BY THE CONTRACT DOCUMENTS.
   B. CONCEALED PHYSICAL CONDITIONS IN THE EXISTING STRUCTURE OF AN UNUSUAL NATURE.
3. SEE THE PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR THE EXTENT OF CUTTING AND PATCHING REQUIREMENTS NECESSITATED BY THAT PORTION OF THE WORK.
4. SEE THE PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL WORK THAT WILL REQUIRE CEILING ACCESS FOR SPECIAL SYSTEMS SUCH AS SMOKE/FIRE ALARM, RANDOM JUNCTION BOXES, ETC. WHICH HAVE NOT BEEN INDICATED ON THE REFLECTED CEILING OR DEMOLITION PLANS.
5. EXISTING CONSTRUCTION TO BE REMOVED:
   A. THE GENERAL CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DESIGNATED AND/OR SHOWN TO BE REMOVED TO RECEIVE NEW WORK AS HEREIN INDICATED.
   B. PLUMBING, MECHANICAL AND ELECTRICAL TRADES SHALL REMOVE ALL DEVICES AND ITEMS PERTAINING TO THEIR RESPECTIVE TRADES FROM ALL EXISTING PARTITIONS, CEILINGS, ETC. BEING REMOVED. COORDINATE DEMOLITION WITH CONCURRENT GENERAL DEMOLITION. UNLESS NOTED TO BE ABANDONED, ALL PLUMBING, MECHANICAL AND ELECTRICAL WHICH PASS THROUGH OR ARE AFFECTED BY THE DEMOLITION SHALL BE MAINTAINED IN A COMPLETE AND FULLY OPERATIONAL CONDITION OR, WHERE NOTED, BE APPROPRIATELY CAPPED OFF. PROVIDE TEMPORARY SYSTEMS AS REQUIRED TO MAINTAIN FULL OPERATION OUTSIDE THE AREA OF DEMOLITION.
6. REMOVE PORTIONS OF EXISTING CONSTRUCTION AS DESIGNATED AND/OR SHOWN AND PATCH REMAINING SURFACES TO MATCH THE ADJACENT CONSTRUCTION.
7. WHENEVER EXISTING EQUIPMENT, PIPING, DUCTS, ETC. ARE REQUIRED TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, ETC. AFTER REMOVAL, ANY AFFECTED CONSTRUCTION AND SURFACES SUCH AS FLOORS, WALLS, BASES AND CEILINGS SHALL BE FINISHED TO MATCH ADJACENT SURFACES, UNLESS OTHERWISE NOTED.
8. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL EQUIPMENT REMOVED, SUCH AS PLUMBING FIXTURES, ELECTRICAL FIXTURES AND EQUIPMENT, MECHANICAL EQUIPMENT, AIR CONDITIONER UNITS, ETC. ITEMS REFUSED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES ON A DAILY BASIS.
9. WHERE INDICATED, REMOVE THE EXISTING WINDOW AND SEAL THE OPENING WITH WALL CONSTRUCTION TO MATCH THE ADJACENT WALL, UNLESS NOTED OTHERWISE. FINISH THE WALL TO MATCH THE ADJACENT FINISH OR TO RECEIVE THE NEW FINISH AS SCHEDULED.
10. EXISTING AREAS, WHETHER WITHIN OR OUTSIDE THE LIMITS OF THE CONTRACT, SHALL BE REPAIRED WHERE ANY DAMAGE HAS OCCURRED DUE TO CONSTRUCTION.

Drawing Index

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Greenville
NORTH CAROLINA

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RICHARD E. JOHNSON REGISTERED ARCHITECT 3517 NORTH CAROLINA GREENVILLE, N.C.

REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION	DHB	REJ

TEG PROJECT NO.
20160246

CLIENT PROJECT NO.
WORK ORDER NO. 24

PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
CONSTRUCTION NOTES AND DRAWING INDEX

DRAWING NO.
G1.1

NOTE: THE EXISTING CONSTRUCTION TYPE AND ASSEMBLY RATINGS SHOWN HAVE BEEN TAKEN FROM ORIGINAL DRAWINGS PROVIDED TO THE EAST GROUP BY THE OWNER. THE EAST GROUP HAS NOT FIELD-VERIFIED ACTUAL CONDITIONS, OPERATIONS, AND RATINGS, AND MAKES NO REPRESENTATION THERE TO.

BUILDING CODE SUMMARY

NORTH CAROLINA ADMINISTRATIVE CODE AND POLICIES, 2012 – APPENDIX B

NAME OF PROJECT: CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION

ADDRESS: 2490 HEMBY LANE, GREENVILLE, NC **ZIP CODE:** 27834

PROPOSED USE: UNCHANGED

OWNER/AUTHORIZED AGENT: ROSS PETERSON **PHONE #:** (252) 329-4921

OWNED BY: ☒ CITY/COUNTY ☐ PRIVATE ☐ STATE

CODE ENFORCEMENT JURISDICTION: ☒ CITY GREENVILLE, NC ☐ COUNTY N/A ☐ STATE

LEAD DESIGN PROFESSIONAL: RICHARD E. JOHNSON, AIA **E-MAIL:** richard.johnson@eastgroup.com

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #
ARCHITECTURAL	THE EAST GROUP, PA	RICHARD E. JOHNSON, AIA	3517	(252) 758-3746
CIVIL	THE EAST GROUP, PA	MICHELLE S. CLEMENTS, PE	029422	(252) 758-3746
ELECTRICAL	THE EAST GROUP, PA	DOUGLAS E. STOVER, PE	024358	(252) 758-3746
FIRE ALARM	THE EAST GROUP, PA	DOUGLAS E. STOVER, PE	024358	(252) 758-3746
PLUMBING	THE EAST GROUP, PA	DENNIS W. PETERSON, JR., PE	035030	(252) 758-3746
MECHANICAL	THE EAST GROUP, PA	DENNIS W. PETERSON, JR., PE	035030	(252) 758-3746
SPRINKLER–STANDPIPE	N/A	N/A	N/A	N/A
STRUCTURAL	THE EAST GROUP, PA	RICHARD B. ECKERT, PE	9503	(252) 758-3746
RTG. WALLS >5' HIGH	N/A	N/A	N/A	N/A
LANDSCAPE	N/A	N/A	N/A	N/A

2012 EDITION OF NC CODE FOR: ☐ NEW CONSTRUCTION ☒ ADDITION ☐ UPFIT

EXISTING: ☐ RECONSTRUCTION ☐ ALTERATION ☐ REPAIR ☐ RENOVATION

CONSTRUCTED (DATE): 1999 **ORIGINAL USE(S) (CH. 3):** –

RENOVATED (DATE): – **CURRENT USE(S) (CH. 3):** –

PROPOSED USE(S) (CH. 3): UNCHANGED

BUILDING DATA

CONSTRUCTION TYPE: ☐ I–A ☐ II–A ☐ III–A ☐ IV ☐ V–A
☐ I–B ☐ II–B ☐ III–B ☒ V–B

SPRINKLERS: ☒ NO ☐ PARTIAL ☐ YES ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D

STANDPIPES: ☒ NO ☐ YES CLASS: ☐ I ☐ II ☐ III ☐ WET ☐ DRY

FIRE DISTRICT: ☒ NO ☐ YES **FLOOD HAZARD AREA:** ☒ NO ☐ YES

BUILDING HEIGHT: FEET: 24

GROSS BUILDING AREA:

FLOOR	EXISTING (SQ FT)	RENOVATION (SQ FT)	NEW (SQ FT)	SUB-TOTAL
7th FLOOR	0	0	0	0
6th FLOOR	0	0	0	0
5th FLOOR	0	0	0	0
4th FLOOR	0	0	0	0
3rd FLOOR	0	0	0	0
2nd FLOOR	0	0	0	0
1st FLOOR	6,151	0	1,027	7,178
BASEMENT	0	0	0	0
TOTAL	6,151	0	1,027	7,178

ALLOWABLE AREA

OCCUPANCY:

ASSEMBLY ☐ A–1 ☐ A–2 ☐ A–3 ☐ A–4 ☐ A–5
BUSINESS ☐ EDUCATIONAL ☐
FACTORY ☐ F–1 MODERATE ☐ F–2 LOW
HAZARDOUS ☐ H–1 DETONATE ☐ H–2 DEFLAGRATE ☐ H–3 COMBUST ☐ H–4 HEALTH ☐ H–5 HPM
INSTITUTIONAL ☐ I–1 ☐ I–2 ☐ I–3 ☐ I–4
I–3 CONDITION ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
MERCANTILE ☐ UTILITY AND MISC. ☐
RESIDENTIAL ☐ R–1 ☒ R–2 ☐ R–3 ☐ R–4
STORAGE ☒ S–1 MODERATE ☐ S–2 LOW ☐ HIGH–PILED ☐ PARKING GARAGE ☐ OPEN ☐ ENCLOSED ☐ REPAIR GARAGE

ACCESSORY OCCUPANCIES:

ASSEMBLY ☐ A–1 ☐ A–2 ☐ A–3 ☐ A–4 ☐ A–5
BUSINESS ☐ EDUCATIONAL ☐
FACTORY ☐ F–1 MODERATE ☐ F–2 LOW
HAZARDOUS ☐ H–1 DETONATE ☐ H–2 DEFLAGRATE ☐ H–3 COMBUST ☐ H–4 HEALTH ☐ H–5 HPM
INSTITUTIONAL ☐ I–1 ☐ I–2 ☐ I–3 ☐ I–4
I–3 CONDITION ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
MERCANTILE ☐ UTILITY AND MISC. ☐
RESIDENTIAL ☐ R–1 ☐ R–2 ☐ R–3 ☐ R–4
STORAGE ☐ S–1 MODERATE ☐ S–2 LOW ☐ HIGH–PILED ☐ PARKING GARAGE ☐ OPEN ☐ ENCLOSED ☐ REPAIR GARAGE

INCIDENTAL ACCESSORY OCCUPANCIES:

☐ FURNACE ROOM WHERE ANY PIECE OF EQUIPMENT IS OVER 400,000 BTU PER HOUR INPUT
☐ ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 15 PSI AND 10 HORSEPOWER
☐ REFRIGERANT MACHINE ROOM
☐ HYDROGEN CUTOFF ROOMS, NOT CLASSIFIED AS GROUP H
☐ INCINERATOR ROOMS
☐ PAINT SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN OCCUPANCIES OTHER THAN GROUP F
☐ LABORATORIES AND VOCATIONAL SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN A GROUP E OR I–2 OCCUPANCY
☐ LAUNDRY ROOMS OVER 100 SQUARE FEET
☐ GROUP I–3 CELLS EQUIPPED WITH PADDED SURFACES
☐ GROUP I–2 WASTE AND LINEN COLLECTION ROOMS
☐ WASTE AND LINEN COLLECTION ROOMS OVER 100 SQUARE FEET

ALLOWABLE AREA (CONTINUED)

☐ STATIONARY STORAGE BATTERY SYSTEMS HAVING A LIQUID ELECTROLYTE CAPACITY OF MORE THAN 50 GALLONS, OR A LITHIUM–ION CAPACITY OF 1,000 POUNDS USED FOR FACILITY STANDBY POWER, EMERGENCY POWER OR UNINTERRUPTED POWER SUPPLIES
☐ ROOMS CONTAINING FIRE PUMPS
☐ GROUP I–2 STORAGE ROOMS OVER 100 SQUARE FEET
☐ GROUP I–2 COMMERCIAL KITCHENS
☐ GROUP I–2 LAUNDRIES EQUAL TO OR LESS THAN 100 SQUARE FEET
☐ GROUP I–2 ROOMS OR SPACES THAT CONTAIN FUEL–FIRED HEATING EQUIPMENT

SPECIAL USES: ☐ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411 ☐ 412 ☐ 413 ☐ 414 ☐ 415 ☐ 416 ☐ 417 ☐ 418 ☐ 419 ☒ 420 ☐ 421 ☐ 422 ☐ 423 ☐ 424 ☐ 425 ☐ 426 ☐ 427

SPECIAL PROVISIONS: ☐ 509.2 ☐ 509.3 ☐ 509.4 ☐ 509.5 ☐ 509.6 ☐ 509.7 ☐ 509.8 ☐ 509.9

MIXED OCCUPANCY: ☐ NO ☒ YES SEPARATION: 3 HR. EXCEPTION: –

☐ INCIDENTAL USE SEPARATION (508.2.5)
THIS SEPARATION IS NOT EXEMPT AS A NONSEPARATED USE (SEE EXCEPTIONS).

☐ NONSEPARATED USE (508.3.2)
THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.

☒ SEPARATED USE (508.3.3) – SEE BELOW FOR AREA CALCULATIONS
FOR EACH STORY, THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.

$$\frac{\text{ACTUAL AREA OF OCCUPANCY A}}{\text{ALLOWABLE AREA OF OCCUPANCY A}} + \frac{\text{ACTUAL AREA OF OCCUPANCY B}}{\text{ALLOWABLE AREA OF OCCUPANCY B}} \leq 1$$

$$\frac{4{,}451\ (R-2)}{7{,}000} + \frac{2{,}737\ (S-1)}{9{,}000} = \frac{.93}{} \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503[3] AREA	(C) AREA FOR FRONTAGE INCREASE[1]	(D) AREA FOR SPRINKLER INCREASE[2]	(E) ALLOWABLE AREA OR UNLIMITED[3]	(F) MAXIMUM BUILDING AREA[4]
1	R–2	4451	6000	–	–	–	–
1	S–1	2737	9000	–	–	–	–
–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–

1. FRONTAGE AREA INCREASES FROM SECTION 506.2 ARE COMPUTED THUS:
   a. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = – (F)
   b. TOTAL BUILDING PERIMETER = – (P)
   c. RATIO (F/P) = – (F/P)
   d. W = MINIMUM WIDTH OF PUBLIC WAY = – (W)
   e. PERCENTAGE OF FRONTAGE INCREASE I = 100[F/P – 0.25] x W/30 = – (%)
2. THE SPRINKLER INCREASE PER SECTION 506.3 IS AS FOLLOWS:
   a. MULTI–STORY BUILDING I = 200 PERCENT
   b. SINGLE STORY BUILDING I = 300 PERCENT
3. UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.
4. MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING x E (506.4).
5. THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.3.5. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.1.2.

ALLOWABLE HEIGHT

THE BUILDING HEIGHT IS NOT AFFECTED BY THIS PROJECT.

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
TYPE OF CONSTRUCTION	TYPE VB		TYPE VB	–
BUILDING HEIGHT IN FEET	FEET 40	FEET = H + 20' = –	FEET 24	–
BUILDING HEIGHT IN STORIES	STORIES 1	STORIES + 1 = –	STORIES 1	–

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ – * REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, TRUSSES	–	0	––	––	–	–	–
BEARING WALLS							
EXTERIOR							
NORTH	–	0	–	–	–	–	–
EAST	–	0	–	–	–	–	–
SOUTH	–	0	–	–	–	–	–
WEST	–	0	–	–	–	–	–
INTERIOR	–	0	–	–	–	–	–
NONBEARING WALLS AND PARTITIONS							
EXTERIOR							
NORTH	–	–	–	–	–	–	–
EAST	–	–	–	–	–	–	–
SOUTH	–	–	–	–	–	–	–
WEST	–	–	–	–	–	–	–
INTERIOR	–	0	–	–	–	–	–
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	–	0	–	–	–	–	–
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	–	0	–	–	–	–	–
SHAFT ENCL. – EXIT	–	–	–	–	–	–	–
SHAFT ENCL. – OTHER	–	–	1 EXISTING	–	U305	–	–
CORRIDOR SEPARATION	–	–	1 EXISTING	–	U305	–	–
OCCUPANCY SEPARATION	–	3	3 EXISTING	–	**	–	–
PARTY/FIRE WALL SEPARATION	–	–	–	–	–	–	–
SMOKE BARRIER SEPARATION	–	–	–	–	–	–	–
TENANT SEPARATION	–	–	–	–	–	–	–
INCIDENTAL USE SEPARATION	–	–	–	–	–	–	–

* INDICATE SECTION NUMBER PERMITTING REDUCTION
** SEE NEW WALL RATING NOTES AND 3 HOUR FIRE BARRIER ASSEMBLY DETAIL 3/A2.1.

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING: ☐ NO ☒ YES
EXIT SIGNS: ☐ NO ☒ YES
FIRE ALARM: ☐ NO ☒ YES
SMOKE DETECTION SYSTEMS: ☐ NO ☒ YES ☐ PARTIAL
PANIC HARDWARE: ☐ NO ☒ YES

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEET #: G2.1

☒ FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)
☐ ASSUMED AND REAL PROPERTY LINE LOCATIONS
☐ EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8)
☐ EXISTING STRUCTURES WITHIN 30 FEET OF THE PROPOSED BUILDING
☐ OCCUPANCY TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.1)
☐ OCCUPANT LOADS FOR EACH AREA
☐ EXIT ACCESS TRAVEL DISTANCES (1016)
☐ COMMON PATH OF TRAVEL DISTANCES (1014.3 & 1028.8)
☐ DEAD END LENGTHS (1018.4)
☒ CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
☐ MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.1)
☐ ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR
☐ A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION
☐ LOCATION OF DOORS WITH PANIC HARDWARE (1008.1.10)
☐ LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY (1008.1.9.7)
☐ LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1008.1.9.8)
☐ LOCATION OF DOORS EQUIPPED WITH HOLD–OPEN DEVICES
☐ LOCATION OF EMERGENCY ESCAPE WINDOWS (1029)
☐ THE SQUARE FOOTAGE OF EACH FIRE AREA (902)
☐ THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.4)
☐ NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

ACCESSIBILITY PARKING (SECTION 1106)

PARKING REQUIREMENTS ARE NOT AFFECTED BY THIS PROJECT. NO CHANGE IN PARKING COUNT.

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" AISLE	VAN SPACES WITH 8' AISLE	
–	–	–	–	–	–	–
–	–	–	–	–	–	–
–	–	–	–	–	–	–
–	–	–	–	–	–	–
–	–	–	–	–	–	–
	–	–	–	–	–	–

STRUCTURAL DESIGN

DESIGN LOADS:

IMPORTANCE FACTORS: WIND (I_w): 1.15 SNOW (I_s): 1.2 SEISMIC (I_E): 1.5

LIVE LOADS: ROOF: 20 PSF MEZZANINE: NA PSF FLOOR: 350 PSF

GROUND SNOW LOAD: 10 PSF

WIND LOAD: BASIC WIND SPEED: 110 MPH (ASCE–7)
EXPOSURE CATEGORY: C
WIND BASE SHEARS (FOR MWFRS): V_x = – V_y = –

SEISMIC DESIGN CATEGORY: ☐ A ☐ B ☐ C ☐ D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:

OCCUPANCY CATEGORY (TABLE 1604.5): ☐ I ☐ II ☐ III ☒ IV

SPECTRAL RESPONSE ACCELERATION: S_s = – %g S_1 = – %g

SITE CLASSIFICATION (TABLE 1613.5.2): ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F
DATA SOURCE: ☐ FIELD TEST ☒ PRESUMPTIVE ☐ HISTORICAL DATA

BASIC STRUCTURAL SYSTEM (CHECK ONE):

☒ BEARING WALL ☐ DUAL W/ SPECIAL MOMENT FRAME
☐ BUILDING FRAME ☐ DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL
☐ MOMENT FRAME ☐ INVERTED PENDULUM

SEISMIC BASE SHEAR: V_x = – V_y = –

ANALYSIS PROCEDURE: ☐ SIMPLIFIED ☒ EQUIVALENT LATERAL FORCE ☐ DYNAMIC

ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? ☒ YES ☐ NO

LATERAL DESIGN CONTROL: ☐ EARTHQUAKE ☒ WIND

SOIL BEARING CAPACITIES:

FIELD TEST (PROVIDE COPY OF TEST REPORT): NA PSF
PRESUMPTIVE BEARING CAPACITY: 2,000 PSF
PILE SIZE, TYPE, AND CAPACITY: NA

SPECIAL INSPECTIONS REQUIRED: ☒ YES ☐ NO

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

PLUMBING FIXTURE REQUIREMENTS ARE NOT AFFECTED BY THIS PROJECT. NO NET CHANGE IN FIXTURE COUNT.

USE		WATER CLOSETS MALE	WATER CLOSETS FEMALE	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	SHOWERS/ TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
–		–	–	–	–	–	–	–	–
		–	–	–	–	–	–	–	–
		–	–	–	–	–	–	–	–
–		–	–	–	–	–	–	–	–
		–	–	–	–	–	–	–	–
		–	–	–	–	–	–	–	–

SPECIAL APPROVALS

(LOCAL JURISDICTION, DOI, OSC, DPI, DHHS, ICC, ETC., DESCRIBE BELOW)

–
–
–

ENERGY SUMMARY

THE BUILDING ENVELOPE IS NOT AFFECTED BY THIS PROJECT.

ENERGY REQUIREMENTS:

CLIMATE ZONE: ☐ 3 ☐ 4 ☐ 5

METHOD OF COMPLIANCE:

ENERGY CODE: ☐ PRESCRIPTIVE ☐ PERFORMANCE
ASHRAE 90.1: ☐ PRESCRIPTIVE ☐ PERFORMANCE

THERMAL ENVELOPE:

ROOF/CEILING ASSEMBLY (EACH ASSEMBLY):

DESCRIPTION OF ASSEMBLY: –
U–VALUE OF TOTAL ASSEMBLY: –
R–VALUE OF INSULATION: –
SKYLIGHTS IN EACH ASSEMBLY: –
U–VALUE OF SKYLIGHT: –
TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY: –

EXTERIOR WALLS (EACH ASSEMBLY):

DESCRIPTION OF ASSEMBLY: –
U–VALUE OF TOTAL ASSEMBLY: –
R–VALUE OF INSULATION: –
OPENINGS (WINDOWS OR DOORS WITH GLAZING):
U–VALUE OF ASSEMBLY: –
SOLAR HEAT GAIN COEFFICIENT: –
PROJECTION FACTOR: –
DOOR R–VALUES: –

WALLS BELOW GRADE (EACH ASSEMBLY):

DESCRIPTION OF ASSEMBLY: –
U–VALUE OF TOTAL ASSEMBLY: –
R–VALUE OF INSULATION: –

FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY):

DESCRIPTION OF ASSEMBLY: –
U–VALUE OF TOTAL ASSEMBLY: –
R–VALUE OF INSULATION: –

FLOORS SLAB ON GRADE:

DESCRIPTION OF ASSEMBLY: –
U–VALUE OF TOTAL ASSEMBLY: –
R–VALUE OF INSULATION: –
HORIZONTAL/VERTICAL REQUIREMENT: –
SLAB HEATED: –

MECHANICAL SUMMARY

THIS PROJECT DOES NOT DELETE OR ADD ANY MECHANICAL "BACKBONE" EQUIPMENT. PROJECT PRIMARILY ADJUSTS AIR DISTRIBUTION SYSTEM LAYOUT TO ACCOMMODATE THE NEW SPACE CONFIGURATION.

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT:

METHOD OF COMPLIANCE:

ENERGY CODE: ☐ PRESCRIPTIVE ☐ PERFORMANCE
ASHRAE 90.1: ☐ PRESCRIPTIVE ☐ PERFORMANCE

THERMAL ZONE:

WINTER DRY BULB: –
SUMMER DRY BULB: –

INTERIOR DESIGN CONDITIONS:

WINTER DRY BULB: –
SUMMER DRY BULB: –
RELATIVE HUMIDITY: –

BUILDING HEATING LOAD: –

BUILDING COOLING LOAD: –

MECHANICAL SPACE CONDITIONING SYSTEM:

UNITARY:
DESCRIPTION OF UNIT: –
HEATING EFFICIENCY: –
COOLING EFFICIENCY: –
SIZE CATEGORY OF UNIT: –
BOILER:
SIZE CATEGORY; IF OVERSIZED, STATE REASON: –
CHILLER:
SIZE CATEGORY; IF OVERSIZED, STATE REASON: –

LIST EQUIPMENT EFFICIENCIES: –

ELECTRICAL SUMMARY

NO BACKBONE ELECTRICAL EQUIPMENT IS EFFECTED BY THIS PROJECT. ELECTRICAL DESIGN INCLUDES POWER, LIGHTING, AND COMMUNICATION CONSTRUCTION TO ACCOMMODATE NEW ROOM CONFIGURATION.

ELECTRICAL SYSTEM AND EQUIPMENT:

METHOD OF COMPLIANCE:

ENERGY CODE: ☐ PRESCRIPTIVE ☐ PERFORMANCE
ASHRAE 90.1: ☐ PRESCRIPTIVE ☐ PERFORMANCE

LIGHTING SCHEDULE (EACH FIXTURE TYPE):

LAMP TYPE REQUIRED IN FIXTURE: ––
NUMBER OF LAMPS IN FIXTURE: ––
BALLAST TYPE USED IN FIXTURE: ––
NUMBER OF BALLASTS IN FIXTURE: ––
TOTAL WATTAGE PER FIXTURE: ––
TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED: ––
TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED: ––

ADDITIONAL PRESCRIPTIVE COMPLIANCE:

☐ 506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT
☐ 506.2.2 REDUCED LIGHTING POWER DENSITY
☐ 506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS
☐ 506.2.4 HIGHER EFFICIENCY SERVICE WATER HEATING
☐ 506.2.5 ON–SITE SUPPLY OF RENEWABLE ENERGY
☐ 506.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEMS

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Greenville NORTH CAROLINA

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SEAL
RICHARD E. JOHNSON REGISTERED ARCHITECT 3517 NORTH CAROLINA GREENVILLE, N.C.
10/24/17

REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION	DHB	REJ

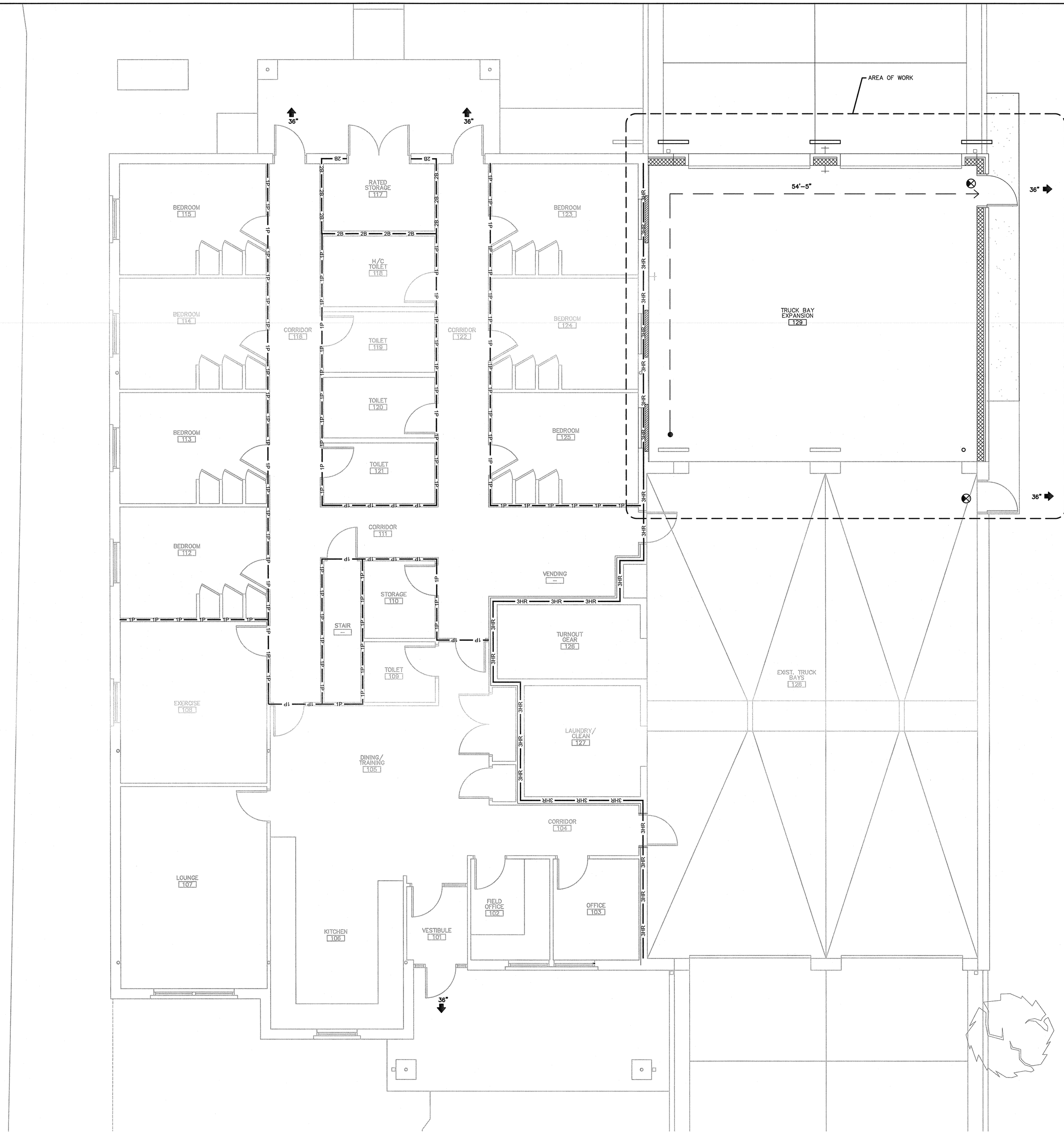
TEG PROJECT NO.
20160246

CLIENT PROJECT NO.
WORK ORDER NO. 24

PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
NORTH CAROLINA BUILDING CODE SUMMARY

DRAWING NO.
G1.2



1 **LIFE SAFETY PLAN**
SCALE: 1/4" = 1'-0"

Legend

	HOURLY RATING
.....	SMOKE PARTITION
------	1/2 HOUR FIRE BARRIER
—1B—	1 HOUR FIRE BARRIER
—1P—	1 HOUR FIRE PARTITION
—▪●▬●▪—	1 HOUR FIRE RESISTANT RATED SMOKE BARRIER
—2B—	2 HOUR FIRE BARRIER
—·—·—	2 HOUR FIRE RESISTANT RATED SMOKE BARRIER
—2HR—	2 HOUR FIRE WALL
—3HR—	3 HOUR FIRE WALL
—4HR—	4 HOUR FIRE WALL
X'-X"	PATH OF EXIT TRAVEL AND TRAVEL DISTANCE
60"	CLEAR EXIT WIDTH
FEC	FIRE EXTINGUISHER CABINET
FE	FIRE EXTINGUISHER
⊗	EXIT LIGHT

General Notes

1. RATED WALLS SHOWN IN EXISTING BUILDING ARE BASED UPON INFORMATION SHOWN ON OWNER PROVIDED RECORD DRAWINGS.
2. MAINTAIN TEMPORARY EXITING DURING CONSTRUCTION. PROVIDE TEMPORARY PARTITIONS AS REQUIRED.

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THE EAST GROUP, P.A. REGISTERED ARCHITECTURAL COMPANY 50213 NORTH CAROLINA GREENVILLE, NC

SEAL
RICHARD E. JOHNSON REGISTERED ARCHITECT 36171 NORTH CAROLINA GREENVILLE, NC 10/26/17

REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION	DHB	REJ

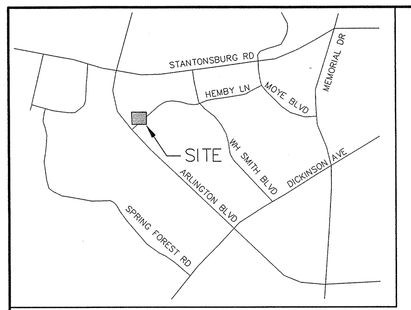
TEG PROJECT NO.
20160246

CLIENT PROJECT NO.
WORK ORDER NO. 24

PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

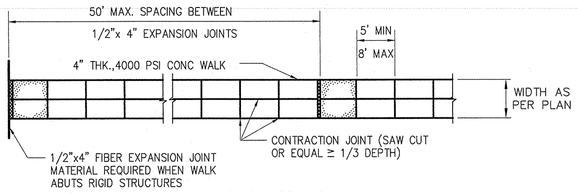
DRAWING TITLE
LIFE SAFETY PLAN

DRAWING NO.
G2.1

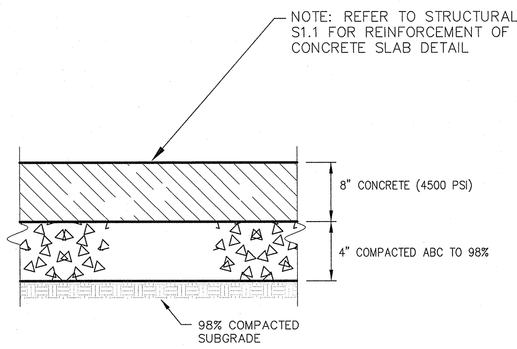


VICINITY MAP
NOT TO SCALE

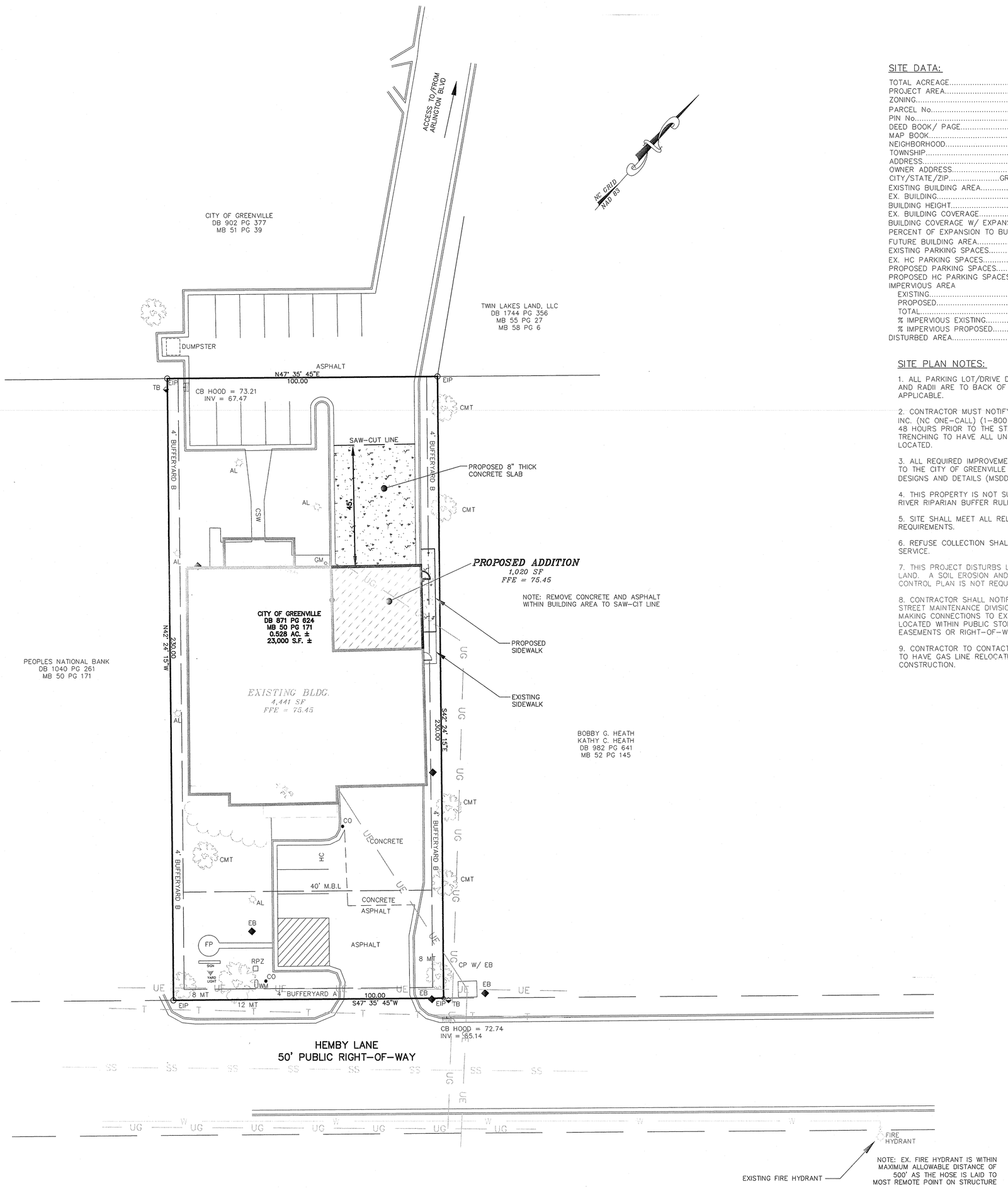
CIVIL SHEETS



1 / C1.1 SIDEWALK DETAIL
N.T.S.



2 / C1.1 CONCRETE PAVEMENT DETAIL
N.T.S.



1"=20'-0"

SITE DATA:

TOTAL ACREAGE	0.528 AC.
PROJECT AREA	0.06 AC.
ZONING	MO
PARCEL No.	59637
PIN No.	4677274863
DEED BOOK/ PAGE	DB 871 PG 624
MAP BOOK	MB 50 PG 171
NEIGHBORHOOD	004111
TOWNSHIP	GREENVILLE
ADDRESS	2490 HEMBY LANE
OWNER ADDRESS	PO BOX 7207
CITY/STATE/ZIP	GREENVILLE, NC 27835
EXISTING BUILDING AREA	4,441 SF
EX. BUILDING	ONE-STORY
BUILDING HEIGHT	28 FT
EX. BUILDING COVERAGE	19.23%
BUILDING COVERAGE W/ EXPANSION	23.67%
PERCENT OF EXPANSION TO BUILDING	4.44%
FUTURE BUILDING AREA	1,020 SF
EXISTING PARKING SPACES	15
EX. HC PARKING SPACES	1
PROPOSED PARKING SPACES	0
PROPOSED HC PARKING SPACES	0
IMPERVIOUS AREA	
EXISTING	0.43 AC.
PROPOSED	0.003 AC.
TOTAL	0.433 AC.
% IMPERVIOUS EXISTING	81.43%
% IMPERVIOUS PROPOSED	82.00%
DISTURBED AREA	0.00 AC.

SITE PLAN NOTES:

1. ALL PARKING LOT/DRIVE DIMENSIONS, ANGLES AND RADII ARE TO BACK OF CURB WHERE APPLICABLE.
2. CONTRACTOR MUST NOTIFY ONE-CALL CENTER, INC. (NC ONE-CALL) (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO THE START OF EXCAVATION OR TRENCHING TO HAVE ALL UNDERGROUND UTILITIES LOCATED.
3. ALL REQUIRED IMPROVEMENTS SHALL CONFORM TO THE CITY OF GREENVILLE MANUAL OF STANDARD DESIGNS AND DETAILS (MSDD).
4. THIS PROPERTY IS NOT SUBJECT TO THE TAR RIVER RIPARIAN BUFFER RULES.
5. SITE SHALL MEET ALL RELATED ACCESSIBILITY REQUIREMENTS.
6. REFUSE COLLECTION SHALL BE BY PRIVATE SERVICE.
7. THIS PROJECT DISTURBS LESS THAN 1 ACRE OF LAND. A SOIL EROSION AND SEDIMENTATION CONTROL PLAN IS NOT REQUIRED.
8. CONTRACTOR SHALL NOTIFY PUBLIC WORKS, STREET MAINTENANCE DIVISION 48 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING STORM DRAINS LOCATED WITHIN PUBLIC STORM DRAINAGE EASEMENTS OR RIGHT-OF-WAY.
9. CONTRACTOR TO CONTACT GUC GAS DEPARTMENT TO HAVE GAS LINE RELOCATED PRIOR TO CONSTRUCTION.

LEGEND

AL = AREA LIGHT
CB = CATCH BASIN
C&G = CURB & GUTTER
CO = CLEAN OUT
CP = CONCRETE PAD
CHW = CONCRETE HEADWALL
CSW = CONCRETE SIDEWALK
DI = DROP INLET
EC = EDGE OF CONCRETE
EB = ELECTRIC BOX
ECM = EXISTING CONCRETE MONUMENT
EIP = EXISTING IRON PIPE (&C = AND CAP)
EP = EDGE OF PAVEMENT
EX. = EXISTING
FDC = FIRE DEPARTMENT CONNECTION
FOCB = FIBER OPTIC CABLE BOX
GM = GAS METER
GW = GUY WIRE
MB = MAIL BOX
ME = MATCH EXISTING
MH = MANHOLE
PP = POWER POLE
RCP = REINFORCED CONCRETE PIPE
RD = ROOF DRAIN
RWM = RIGHT-OF-WAY MONUMENT
SI = SIGN
TB = TELEPHONE BOX
WM = WATER METER
WS = WATER SPIGOT
WV = WATER VALVE

OWNER:
CITY OF GREENVILLE
PO BOX 7207
GREENVILLE, NC 27835

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Greenville
NORTH CAROLINA

SEAL

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 28844 ENGINEER
11-2-17

REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION	T.SH	MSC

TEG PROJECT NO.
20160246

CLIENT PROJECT NO.
WORK ORDER NO. 24

PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
SITE PLAN

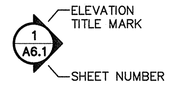
DRAWING NO.
C1.1

Architectural Symbols

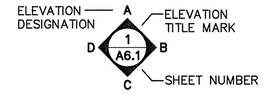
ROOM IDENTIFICATION

OFFICE 101 — ROOM NAME / ROOM NUMBER

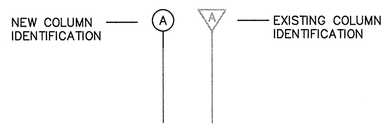
ELEVATION TAG



INTERIOR ELEVATION TAG



COLUMN TAG



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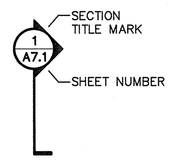

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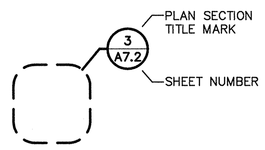
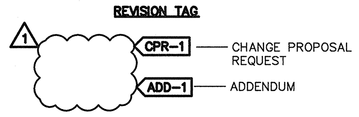


REVISION TAG



NORTH ARROW

Architectural Legend

HOURLY RATING

- SMOKE PARTITION
- 1/2 HOUR FIRE BARRIER
- 1B — 1 HOUR FIRE BARRIER
- 1P — 1 HOUR FIRE PARTITION
- 1 HOUR FIRE RESISTANT RATED SMOKE BARRIER
- 2B — 2 HOUR FIRE BARRIER
- 2 HOUR FIRE RESISTANT RATED SMOKE BARRIER
- 2HR — 2 HOUR FIRE WALL
- 3HR — 3 HOUR FIRE WALL
- 4HR — 4 HOUR FIRE WALL
- X'-X" — PATH OF EXIT TRAVEL AND TRAVEL DISTANCE
- 60" — CLEAR EXIT WIDTH
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED
- NEW CONSTRUCTION
- 101 — DOOR NUMBER – SEE SHEET A8.1
- W-1 — WINDOW TYPE – SEE SHEET A8.1
- CW-1 — CURTAIN WALL – SEE SHEET A8.1
- SF-1 — STOREFRONT – SEE SHEET A8.1
- HM-1 — HOLLOW METAL – SEE SHEET A8.1
- AL-1 — ALUMINUM WINDOW – SEE SHEET A8.1
- HR1 — HANDRAIL – SEE INTERIORS DRAWINGS
- HIWC-1 — HIGH-IMPACT WALL COVERING – SEE INTERIORS DRAWINGS
- CR1 — CRASH RAIL – SEE INTERIORS DRAWINGS
- CG1 — CORNER GUARD – SEE INTERIORS DRAWINGS
- P1-3 / SB — PARTITION TYPE DESIGNATION – SEE DETAILS SHEET A8.2; STUD SIZE INDICATOR; SOUND ATTENUATION INSULATION, WHERE INDICATED ON PLAN

NOTE: ALL INTERIOR PARTITIONS NOT OTHERWISE NOTED SHALL BE PARTITION TYPE P1-3 WITH SOUND ATTENUATION INSULATION (SB)

- 1 — KEYED NOTE SYMBOL
- 1 — KEYED EXISTING FINISH SYMBOL

- EXISTING ACOUSTICAL CEILING TILE TO REMAIN
- EXISTING ACOUSTICAL CEILING TILE TO BE DEMOLISHED
- NEW ACOUSTICAL CEILING TILE
- EXISTING GYPSUM BOARD TO REMAIN
- NEW GYPSUM BOARD
- EXISTING FLUORESCENT LIGHT FIXTURES TO REMAIN
- EXISTING FLUORESCENT LIGHT FIXTURES TO BE DEMOLISHED
- NEW FLUORESCENT LIGHT FIXTURES
- EXISTING MECHANICAL GRILLE TO REMAIN
- EXISTING MECHANICAL GRILLE TO BE DEMOLISHED
- NEW MECHANICAL GRILLE
- EXISTING RECESSED LIGHT TO REMAIN
- EXISTING RECESSED LIGHT TO BE DEMOLISHED
- NEW RECESSED LIGHT
- EXISTING EMERGENCY LIGHT
- EMERGENCY LIGHT
- S — EXISTING SPEAKER TO REMAIN
- S — EXISTING SPEAKER TO BE DEMOLISHED
- S — NEW SPEAKER
- SD — EXISTING SMOKE DETECTOR TO REMAIN
- SD — EXISTING SMOKE DETECTOR TO BE DEMOLISHED
- SD — NEW SMOKE DETECTOR
- EXISTING SPRINKLER TO REMAIN
- EXISTING SPRINKLER TO BE DEMOLISHED
- NEW SPRINKLER
- EXISTING EXIT LIGHT TO REMAIN
- EXISTING EXIT LIGHT TO BE DEMOLISHED
- EXIT LIGHT
- 8'-9" — ABOVE FINISHED FLOOR CEILING HEIGHT

Abbreviations

A	COMPRESSED AIR LINES
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
ABV	ABOVE
AC	ACOUSTICAL
ACC	ACCESS, ACCESSORIES
ACS DR	ACCESS DOOR
ACS PNL	ACCESS PANEL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHR	ANCHOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM, AL	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
BB	BULLETIN BOARD
BD	BOARD
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCH MARK
BOR	BORDER
BOT	BOTTOM
BR	BUMPER RAIL
BRG	BEARING
BRK	BRICK
BTU	BRITISH THERMAL UNIT
BU	BUILT UP
BV	BALL VALVE
C	CHANNEL
C&G	CURB AND GUTTER
C/HR	CRASH/HAND RAIL
CAB	CABINET
CB	CATCH BASIN
CCT	CUBICLE CURTAIN TRACK
CD	CONDENSATE DRAIN
CEM	CEMENT
CF	CHEMICAL FEED
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFLG	COUNTERFLASH(ING),
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CHR	CHAIR RAIL
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR(ANCE)
CM	CROWN MOLDING
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
CONTR	CONTRACT(OR)
COORD	COORDINATE
CP	CONDENSATE PUMP DISCHARGE
CPT	CARPET(ED)
CR	CARD READER OR CRASH RAIL
CRS	COURSE(S)
CSK	COUNTERSINK/SUNK
CT	CERAMIC TILE
CU FT	CUBIC FOOT (OR FEET)
CU	COPPER
CVR	COVER
CW	COLD WATER PIPING
CWR	CONDENSER SUPPLY RETURN
CWS	CONDENSER SUPPLY WATER
CY	CONTROL VALVE
D	DRAIN
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIST	DISTRIBUTION
DM PF	DAMPROOFING
DN	DOWN
DR OPNG	DOOR OPENING
DR	DOOR
DS	DOWNSPOUT
DSPL	DISPOSAL (DISPOSED)
DTA	DRIP TRAP ASSEMBLY
DW	DUMBWAITER
DWG	DRAWING(S)
DWR	DRAWER
DX	DIRECT EXPANSION
E	EAST
EA	EACH
EC	ELECTRICAL CONTRACTOR
EG	EDGE GUARD
EIFS	EXTERIOR INSULATING FINISH SYSTEM
EHO	ELECTRIC HOLD OPEN
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
EMER	EMERGENCY
EP	EPOXY PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWS	EYE WASH STATION
EX/EXIST	EXISTING
EXH FN	EXHAUST FAN
EXH	EXHAUST
EXP BT	EXPANSION BOLT/S
EXP	EXPOSED, EXPANSION
EXT	EXTERIOR
EXTR	EXTRUDED
F&T	FLOAT & THERMOSTAT
FACP	FIRE ALARM CABINET PANEL
FCO	FLOW CLEANOUT
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF EL	FINISH FLOOR ELEVATION
FHC	FIRE HOSE CABINET
FHVC	FIRE HOSE VALVE CABINET
FIN FL	FINISHED FLOOR
FIN	FINISH(ED)
FIX	FIXTURE
FLASH	FLASHING
FLEX	FLEXIBLE
FLR SK	FLOOR SINK
FLR	FLOOR(ING)
FLSW	FLOW SWITCH
FLUOR	FLUORESCENT
FMT	FLOOR MOUNTED TOILET
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FOW	FACE OF WALL
FP	FIREPROOF(ING)
FR	FIRE RATED
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FOOT
FTG	FOOTING
FVB	FILM VIEW BOX
FWC	FABRIC WALL COVERING
G	NATURAL GAS LINE
GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACT(OR)
GFRC/GRC	GLASS FIBER REINFORCED CEMENT
GRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS, GLAZING
GLZ CMU	GLAZED MASONRY UNIT
GND	GROUND
GSKT	GASKET(ED)
GSU	GLAZED STRUCTURAL UNIT
GTV	GATE VALVE
GW	GREASE WASTE
GYP BD	GYPSUM BOARD
HB	HOSE BIBB
HC	HANDICAP
HD	HEAVY DUTY, HUB DRAIN
HDW	HARDWARE
HDWB	HARDBOARD
HDWS	HARDWOOD
HGT	HEIGHT
HIWC	HIGH-IMPACT WALL COVERING
HK	HOOK(S)
HM	HOLLOW METAL
HO	HOLD OPENING
HORIZ	HORIZONTAL
HP	HORSEPOWER, HIGH-PRESSURE, HEATPUMP
HPR	HIGH PRESSURE STEAM RETURN 125PSI
HPS	HIGH PRESSURE STEAM SUPPLY 125PSI
HR	HANDRAIL/HOURLY RATING
HSR	HOSE REEL
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HW	HOT WATER
HWF	HARDWOOD FLOORING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE(D), (ING)
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
IP	IRON PIPE
IVT	I.V. TRACK
JST	JOIST
JT	JOINT
KEYBD	KEYBOARD
KP	KEY PAD
L	ANGLE
LAD	LADDER
LAM GL	LAMINATED GLASS
LAM	LAMINATE(D)
LAV	LAVATORY
LB (#)	POUND
LBL	LABEL
LF	LINEAR FOOT
LKR	LOCKER
LL	LIVE LOAD/LEAD LINED
LPG	LIQUID PETROLEUM GAS
LPR	LOW PRESSURE STEAM RETURN 15PSI
LPS	LOW PRESSURE STEAM SUPPLY 15PSI
LT WT	LIGHTWEIGHT
LTG	LIGHTING
LTL	LINTEL
LVL	LAMINATED VENEER LUMBER
LVR	LOUVER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MBR	MEMBER
MC	MECHANICAL CONTRACTOR
MC	MEDICINE CABINET
MCB	MARKER/CHALK BOARD
MCFD	MINERAL CORE FIRE DOOR
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE(R)
MH	MANHOLE
MHO	MANUAL HOLD OPEN
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MPR	MEDIUM PRESSURE STEAM RETURN (60PSI)
MPS	MEDIUM PRESSURE STEAM SUPPLY (60PSI)
MRBL	MARBLE
MTB	MARKER/TACK BOARD
MTD	MOUNTED
MTG HT	MOUNTING HEIGHT
MTG	MOUNTING
MTL	METAL
MULL	MULLION
N/A	NOT APPLICABLE
N2	NITROGEN LINE
N2O	NITROUS OXIDE LINE
NC	NON-COMBUSTIBLE
NIC	NOT IN CONTRACT
NO (#)	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	OXYGEN
OA	OVERALL
OC	ON CENTER(S)
OCBW	ON CENTER BOTH WAYS
OCH	ON CENTER HORIZONTALLY
OCV	ON CENTER VERTICALLY
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OHS	OPEN HEARTH STEEL
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
PC	PARTICLE CORE
PC	PLUMBING CONTRACTOR
PCF	POUNDS PER CUBIC FOOT
PE	PAINT EGGSHELL
PED	PEDIMAT
PF	PAINT FLAT
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT(ED)
POR	PORCELAIN
PP	PUSH PLATE
PR CST	PRECAST
PR KG	PARKING
PR	PAIR
PRV	PRESSURE REDUCING VALVE
PS	PAINT SEMI-GLOSS
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTHR	PASS-THRU
PTN	PARTITION
PTS	PNEUMATIC TUBE STATION
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PVCB	PVC BASE
PVMT	PAVEMENT
PVR	PAVER
PW	PASS WINDOW
PWR	POWER
QT	QUARRY TILE
RAD	RADIUS
RB	RUBBER BASE
RBR	RUBBER OR RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RECP	RECEPTOR (ACLE)
REF	REFERENCE, REFRIGERATOR
REINF	REINFORCE(D), (ING), (MENT)
REQD	REQUIRED
RES	RESILIENT
RET	RETAINING
REV	REVISION(S), REVISED
RF	ROOF
RFG	ROOFING
RH	ROOF HATCH
RL	ROOF LEADER
RM	ROOM
RO	ROUGH OPENING
RST	RUBBER STAIR TREAD
RT	RUBBER TILE
RTF	RESILIENT TEXTILE FLOORING
RTU	ROOF TOP UNIT
RWL	RAIN WATER LEADER
S	SOUTH, SWITCH
S&R	SHELF AND ROD
SAD	SECURITY ACCESS DOOR
SAP	SECURE ACCESS PANEL
SB	SPLASH BLOCK
SC	SOLID CORE (DOORS)
SCR	SHOWER CURTAIN ROD
SD	STORM DRAIN
SEC	SECURITY
SECT	SECTION
SFPS	STRETCHED FABRIC PANEL SYSTEM
SHM	SECURITY HOLLOW METAL
SHR	SHOWER
SHT	SHEET
SHTG	SHEATHING
SHV	SHELF, SHELVING
SIM	SIMILAR
SL	SLOPE
SLC	SOLID STAVE CORE
SOG	SLAB ON GRADE
SP	SOUNDPROOF
SPEC	SPECIFICATION(S) (SPECIFIED)
SQ	SQUARE
SR	SEAMLESS RESILIENT
SS	SANITARY SEWER
SSM	SOLID SURFACE MATERIAL
SST	STAINLESS STEEL
ST	STONE
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STER	STERILIZER
STL	STEEL
STN	STAINED
STRUCT	STRUCTURAL
SUS	SUSPENDED
SV	SHEET VINYL/ SAFETY RELIEF VALVE
SWGR	SWITCHGEAR
T&G	TONGUE & GROVE
TB	TOWEL BAR
TEL	TELEPHONE
TEMP	TEMPORARY
TER	TERRAZZO
TF	TEXTURE FLOOR
THK	THICK(NESS)
THRES	THRESHOLD
THRU	THROUGH
TKBD	TACKBOARD
TLT	TOILET
TOC	TOP OF CURB
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPTN	TOILET PARTITION
TRS	TOOL RESISTIVE STEEL
TRTD	TREATED
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT/UNDERCOUNTER
UL	UNDERWRITER'S LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VENT
VAC	VACUUM
VC	VARIEGATED COATING
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VIN	VINYL
VR	VAPOR RETARDER
VT	VINYL TILE
VTR	VENT TROUGH ROOF
VWC	VINYL WALL COVERING
VWF	VINYL WALL FABRIC
W	WIDE
W/	WITH
W/O	WITHOUT
WALG	WALL GUARD
WC	WATERCLOSET
WCJ	WALL CONTROL JOINT
WCO	WALL CLEANOUT
WD	WOOD
WDM	WATERPROOFING MEMBRANE
WG	WIRED GLASS
WH	WATER HYDRANT
WI	WROUGHT IRON
WIN	WINDOW
WO	WINDOW OPENING
WOM	WALK OFF MAT
WP	WATERPROOFING
WR	WATER RESISTANT
WS	WALL SCONCE
WSCT	WAINSCOT
WSSV	WELDED SHEET VINYL
WWF	WELDED WIRE FABRIC
VFCI	VENDOR FURNISHED, CONTRACTOR INSTALLED
VFOI	VENDOR FURNISHED, OWNER INSTALLED

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Greenville NORTH CAROLINA

SEAL

THE EAST GROUP, P.A. REGISTERED ARCHITECTURAL COMPANY 50213 NORTH CAROLINA GREENVILLE, NC

SEAL

RICHARD E. JOHNSON REGISTERED ARCHITECT 3547 NORTH CAROLINA GREENVILLE, NC 6/29/17

REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION		

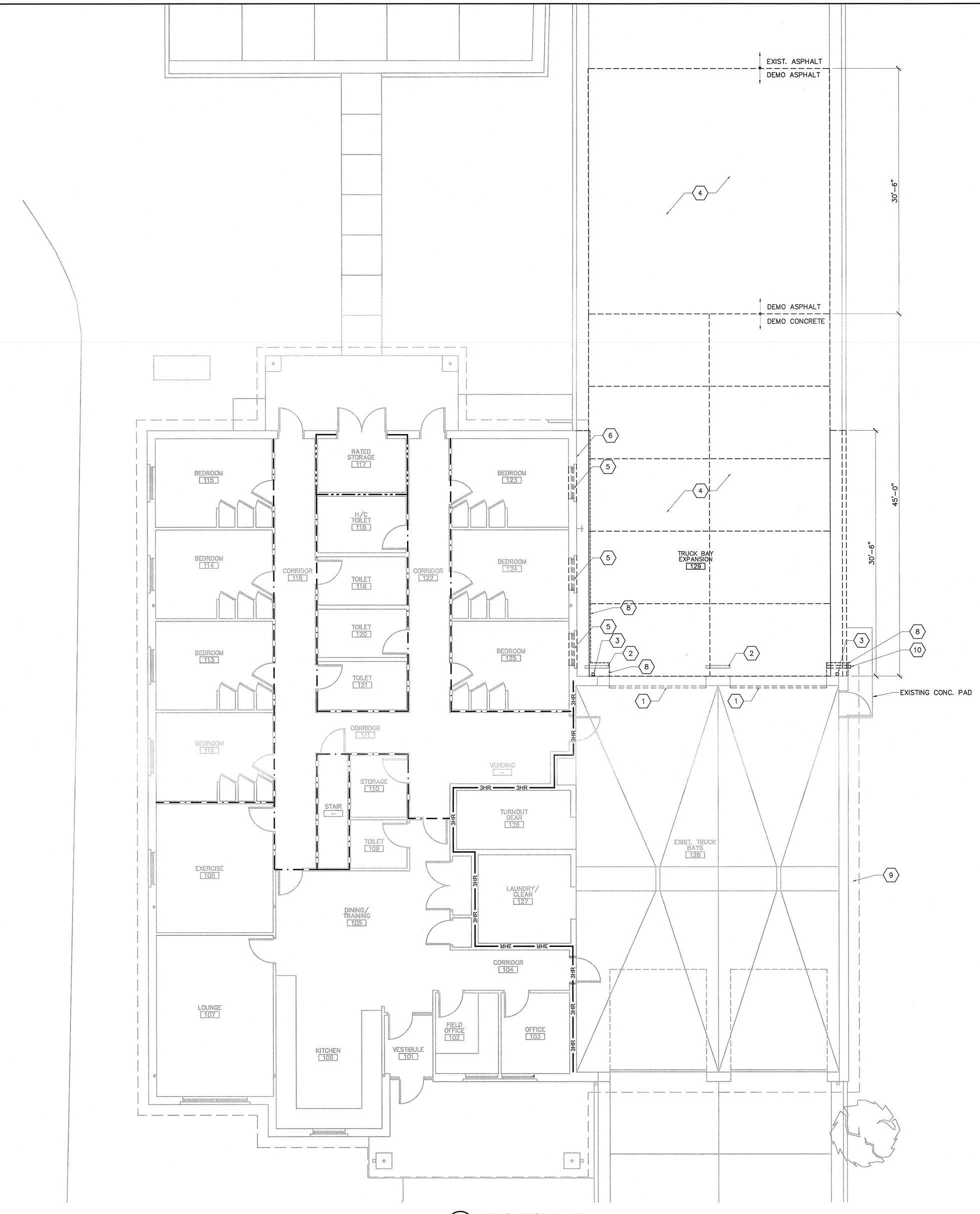
TEG PROJECT NO.
20160246

CLIENT PROJECT NO.
WORK ORDER NO. 24

PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
ARCHITECTURAL SYMBOLS AND ABBREVIATIONS

DRAWING NO.
A0.1



1 **DEMOLITION PLAN**
SCALE: 3/16" = 1'-0"

General Notes

1. REFER TO SHEET G1.1 FOR ADDITIONAL DEMOLITION NOTES.
2. REPAIR DAMAGE AND HOLES LEFT AFTER REMOVAL OF COMPONENTS AND DEMOLITION ACTIVITY. MATCH EXISTING ADJACENT FINISH OR PREPARE FOR NEW FINISH.
3. DEMOLITION ACTIVITIES THAT CAUSE NOISE OR VIBRATION DETRIMENTAL TO OWNER ACTIVITY SHALL BE CONDUCTED AT TIMES COORDINATED WITH THE OWNER.
4. IN AREAS WHERE EXISTING FINISHES ARE TO BE REPLACED WITH NEW FINISHES, FULLY PREPARE SUBSTRATE TO RECEIVE NEW FINISH IN ACCORDANCE WITH FINISH MANUFACTURERS' REQUIREMENTS.
5. SEE P,M,&E DRAWINGS FOR ADDITIONAL DEMOLITION ITEMS.
6. THE OWNER HAS THE RIGHT OF FIRST REFUSAL ON ALL SYSTEM COMPONENTS REMOVED DURING DEMOLITION. SYSTEM COMPONENTS REJECTED BY THE OWNER SHALL BE BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS.

Keyed Notes

1. REMOVE DOORS AND SALVAGE FOR REINSTALLATION
2. TWO BOLLARDS TO REMAIN
3. REMOVE DOWNSPOUTS & SALVAGE FOR REINSTALLATION.
4. DEMOLISH PORTION OF CONCRETE & ASPHALT SITEWORK AS INDICATED.
5. REMOVE WINDOWS, INFILL OPENING TO MATCH EXISTING ADJACENT CONSTRUCTION. PAINT INTERIOR WALL, CORNER TO CORNER, TO MATCH EXISTING COLOR & FINISH.
6. WALL MOUNTED SPEAKER TO BE RELOCATED. SEE ELECTRICAL DRAWINGS.
7. NOT USED.
8. DEMO OUTLOOKERS, TRIM AND WATER TABLES AS REQUIRED IN PROJECT AREA.
9. REMOVE TRIM, HARDIPLANK & SHEATHING ONLY AS NEEDED FOR NEW ROOF OVER-FRAMING.
10. REMOVE EXIST. BOLLARD & PREP FOR NEW BOLLARD INSTALLATION.

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NORTH CAROLINA

SEAL
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SEAL
RICHARD E. JOHNSON REGISTERED ARCHITECT 3547 NORTH CAROLINA GREENVILLE
10/25/17

REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION	DHB	REJ

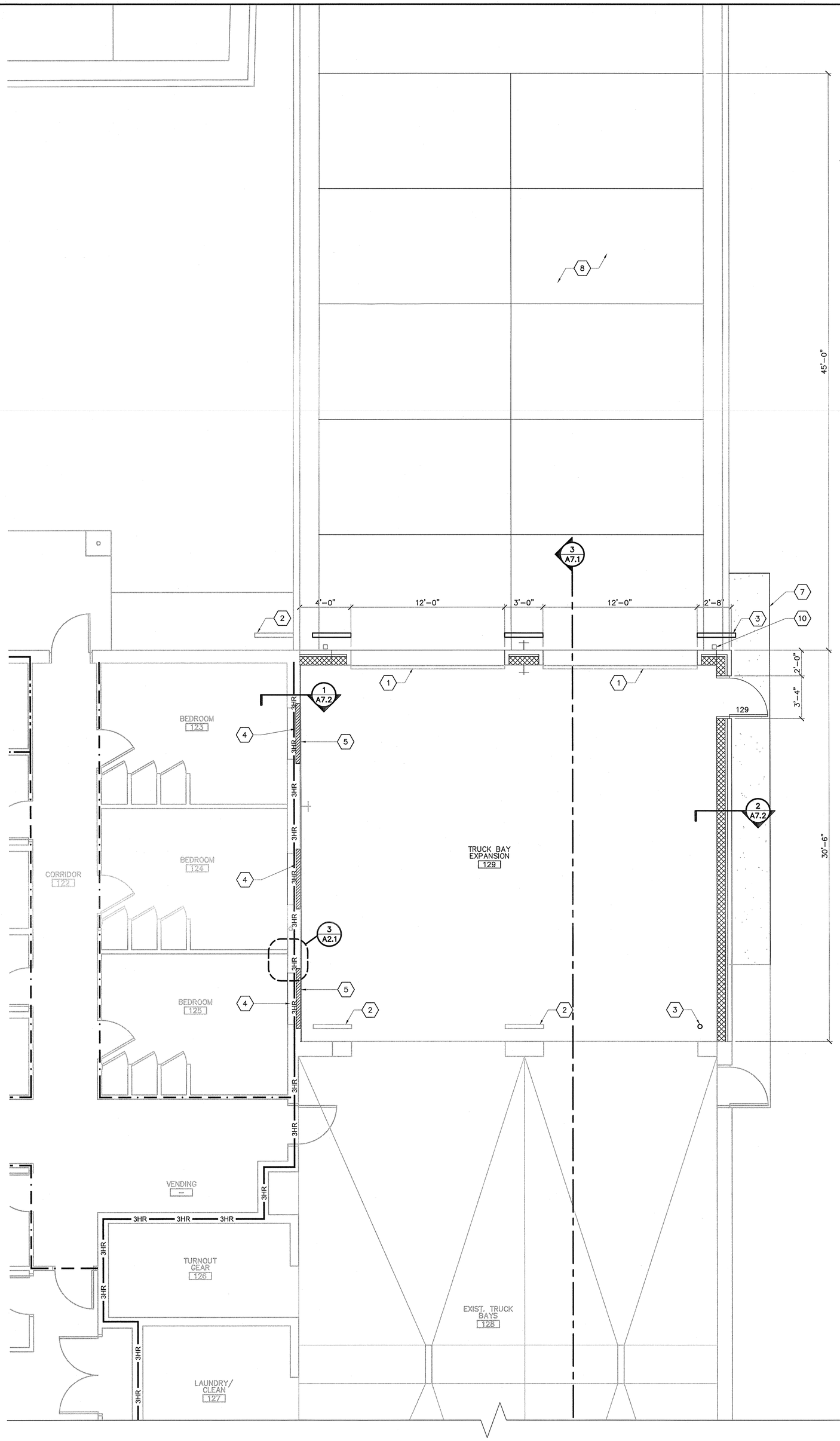
TEG PROJECT NO.
20160246

CLIENT PROJECT NO.
WORK ORDER NO. 24

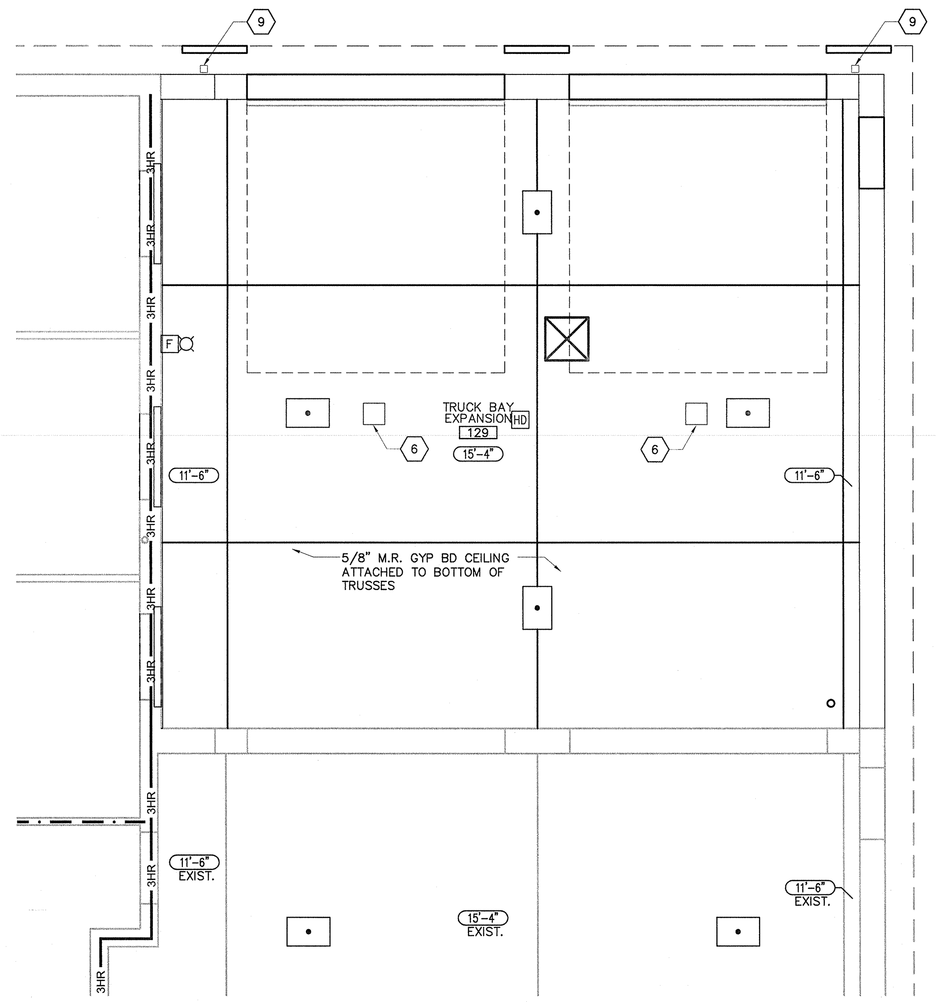
PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
DEMOLITION PLAN

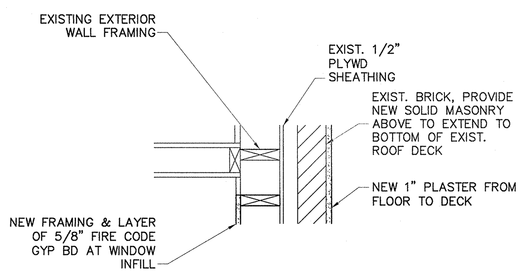
DRAWING NO.
A1.1



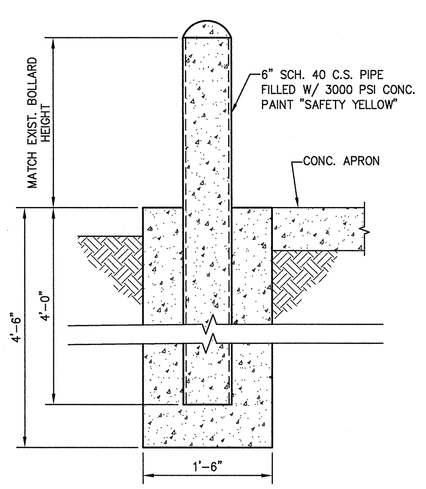
1 FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



3 HOUR FIRE BARRIER ASSEMBLY DETAIL
SCALE: NTS



4 TYPICAL PIPE BOLLARD DETAIL
SCALE: 1" = 1'-0"

General Notes

1. REFER TO SHEET G1.1 FOR ADDITIONAL GENERAL NOTES.
2. SEE SHEET G2.1 FOR LOCATION OF ALL FIRE-RATED WALLS, SMOKE PARTITIONS AND EGRESS CRITERIA.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS. IF CONDITIONS ARE FOUND WHICH DIFFER FROM THOSE SHOWN ON THE DRAWINGS, CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.
4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT EQUIPMENT, FIXTURES, ETC.
5. WHERE NEW WALLS MEET EXISTING WALLS, ALIGN WALLS FOR A SMOOTH TRANSITION. PATCH AND REPAIR WALLS TO MATCH.
6. ALL NEW FINISHES TO MATCH EXISTING.
7. NEW CEILING HEIGHTS TO MATCH EXISTING.
8. MAJOR MECHANICAL AND ELECTRICAL ITEMS ARE SHOWN ON THIS DRAWING FOR GENERAL LOCATION WITHIN THE CEILING SYSTEM. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR INFORMATION DESCRIBING THE SYSTEMS TO WHICH THEY BELONG AND FOR ADDITIONAL SECONDARY CEILING MOUNTED DEVICES.
9. GC TO PROVIDE BLOCKING FOR ALL CEILING MOUNTED EQUIPMENT.

Keyed Notes

1. RELOCATED TRUCK BAY DOORS. UPGRADE MOTORS & HARDWARE, SEE ALTERNATE NO. 1. PROPERLY SECURE IN WOOD BLOCKING W/ APPROPRIATE LENGTH FASTENERS.
2. EXISTING BOLLARDS TO REMAIN.
3. NEW BOLLARDS:
   EXTERIOR-MATCH EXISTING, TYP. FOR 3.
   INTERIOR-NEW 6" DIA., MATCH HEIGHT OF EXIST. PAINT ALL NEW BOLLARDS TO MATCH EXISTING. SEE DETAIL 4/A2.1.
4. INFILL OPENING TO MATCH EXISTING ADJACENT MASONRY CONSTRUCTION (EXTERIOR) AND FRAMING FOR NEW GYP BD INSTALLATION (INTERIOR). PAINT INTERIOR WALL, CORNER TO CORNER, TO MATCH EXISTING.
5. EXTEND 4" NOMINAL SOLID MASONRY TO BOTTOM OF EXISTING ROOF DECK. INSTALL 1" PLASTER TO MASONRY WALL (TRUCK BAY SIDE) AND PAINT. SEE DETAIL 3/A2.1.
6. RELOCATED OVERHEAD DOOR MOTOR, SEE ELEC. MOUNT TO WOOD BLOCKING W/ APPROPRIATELY SIZED FASTENERS.
7. EXTEND SIDEWALK FROM EXISTING PEDESTRIAN DOOR. MATCH EXISTING WIDTH.
8. NEW CONCRETE PAD.
9. RELOCATED GUTTER DOWNSPOUT, TYP. FOR 2.

Alternates

ALTERNATE NO. 1:

REPLACE EXISTING TRUCK BAY LIGHTS WITH LED LIGHTS ACTIVATED BY MOTION SENSORS.

ALTERNATE NO. 2:

PROVIDE AND INSTALL NEW OVERHEAD DOOR HARDWARE AND MOTORS AS FOLLOWS:

QNTY: (4) FOR 14' X 14' SECTIONAL DOOR HARDWARE ONLY BY CLOPAY BUILDING PRODUCTS.
- 3" REVERSE ANGLE STANDARD LIFT TRACK
- 3" 10 BALL BEARING ROLLERS
- 14 GAUGE HINGES
- SIDE AND TOP WEATHER SEALS
- 1" SOLID KEYED SHAFTS
- 25K CYCLE SPRINGS

QNTY: (4) ME123U – 4 WIRE MILLER SAFETY EDGE BY MILLER EDGE

QNTY: (1) LIFTMASTER T5011 LOGIC 5.0

Door Schedule

DOOR NUMBER	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME ELEVATION	FRAME MATERIAL	FRAME DETAIL	FRAME FINISH	FRAME ELEVATION	HARDWARE (SEE BELOW)	RATING	NOTES
129	3'-0"	7'-0"	STEEL	PAINT	D1	HM	–	PAINT	F1	1	–	–

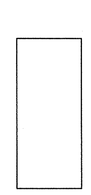
Hardware Sets

HARDWARE SET NO. 1

QTY.	ITEM	MANUFACTURER	PRODUCT	FINISH
1	LOCKSET	(MATCH EXIST. FACILITY)	ENTRY LOCKSET	US32D
1	PUSHBUTTON LOCK	UNICAN	400 SERIES	US32D
3	HINGES	HAGER	ECBB1103NRP	US32D
3	SILENCERS	IVES	SR64	GRAY
1	CLOSER W/ HOLD OPEN	CORBIN RUSSWIN	DC6000 SERIES	626
1	THRESHOLD	PEMKO	179-V-A	ALUM.
1	WEATHERSTRIPPING			

Door Elevations
SCALE: 1/4"=1'-0"

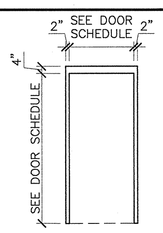
NOTE: REFER TO DOOR SCHEDULE FOR DOOR SIZE, MATERIAL, AND FINISH.



D1

Frame Elevations
SCALE: 1/4"=1'-0"

NOTE: REFER TO DOOR SCHEDULE FOR MATERIAL AND FINISH.



F1

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SEAL

RICHARD E. JOHNSON 9547 REGISTERED ARCHITECT GREENVILLE, NC 4/24/17

REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION	DHB	REJ

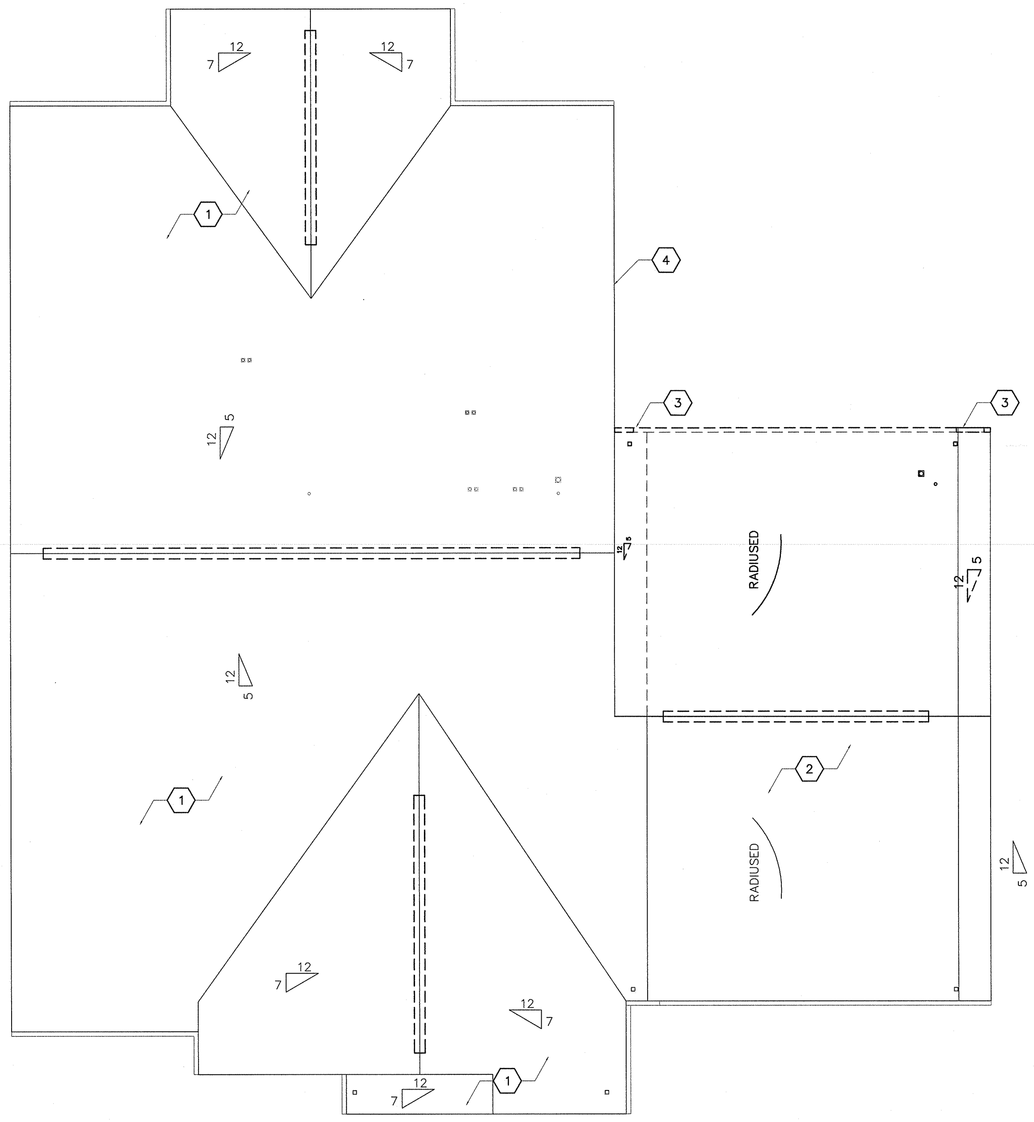
TEG PROJECT NO.
20160246

CLIENT PROJECT NO.
WORK ORDER NO. 24

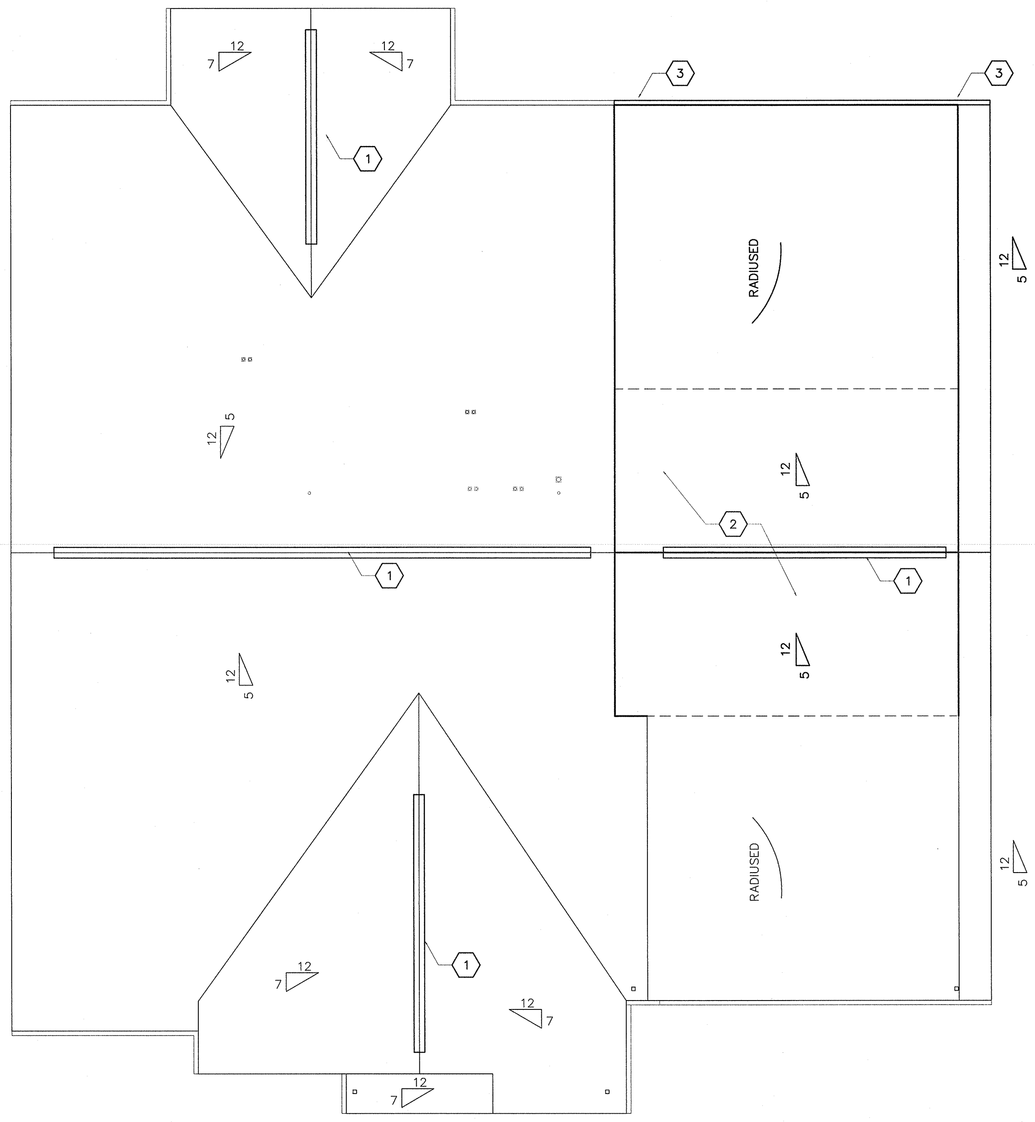
PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
FLOOR PLAN, REFLECTED CEILING PLAN, DOOR SCHEDULE

DRAWING NO.
A2.1



1 **DEMOLITION ROOF PLAN**
SCALE: 1/8" = 1'-0"



2 **ROOF PLAN**
SCALE: 1/8" = 1'-0"

General Notes

1. PROVIDE SELF-ADHERING ICE & WATER SHIELD UNDERLAYMENT AND ARCHITECTURAL TAB TYPE SHINGLES. SEE SPECIFICATIONS.
2. NEW SHINGLES COLOR TO BE SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE OF COLORS.

Keyed Demolition Notes

1. MAIN BUILDING ROOF: REMOVE EXISTING SHINGLES AND FELT DOWN TO PLYWOOD.
2. TRUCK BAY ROOF: REMOVE SHINGLES OVER MODIFIED BITUMEN.
3. REMOVE GUTTERS AND DOWNSPOUTS. SALVAGE DOWNSPOUTS FOR REINSTALLATION.
4. REMOVE WATER TABLE FRAMING BELOW.

Keyed New Work Notes

1. CONT. RIDGE VENT W/ SHINGLE CAP
2. EXISTING TRUCK BAY ROOF TO BE OVER-FRAMED. SEE STRUCTURAL DRAWINGS.
3. PROVIDE NEW METAL GUTTERS TO MATCH EXISTING. RE-INSTALL DOWNSPOUTS.

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SEAL

RICHARD E. JOHNSON REGISTERED ARCHITECT 3517 NORTH CAROLINA GREENVILLE, NC 12/29/17

REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION	DHB	REJ

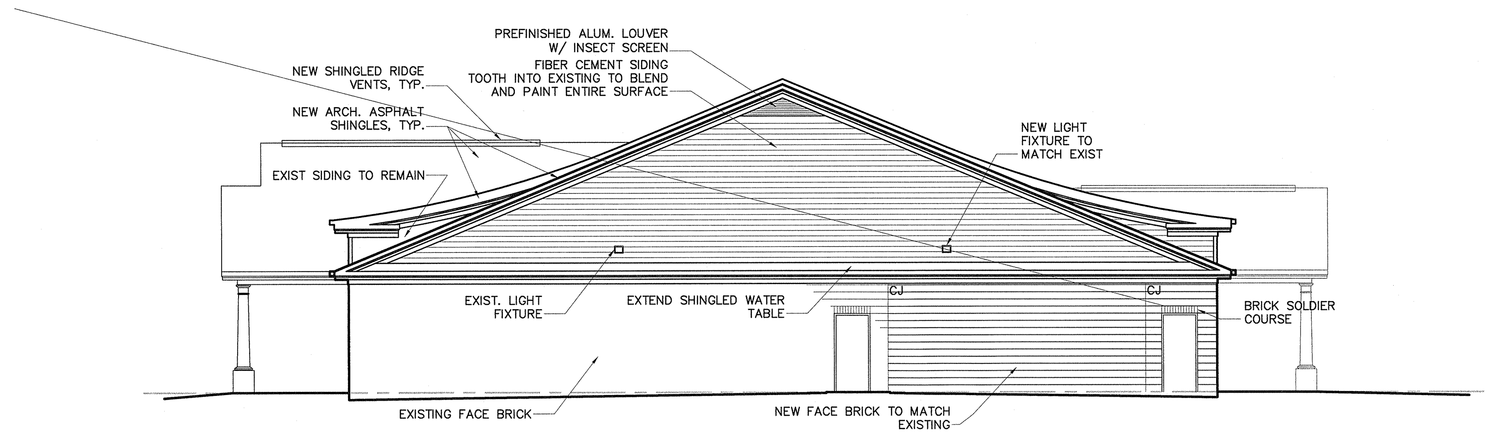
TEG PROJECT NO.
20160246

CLIENT PROJECT NO.
WORK ORDER NO. 24

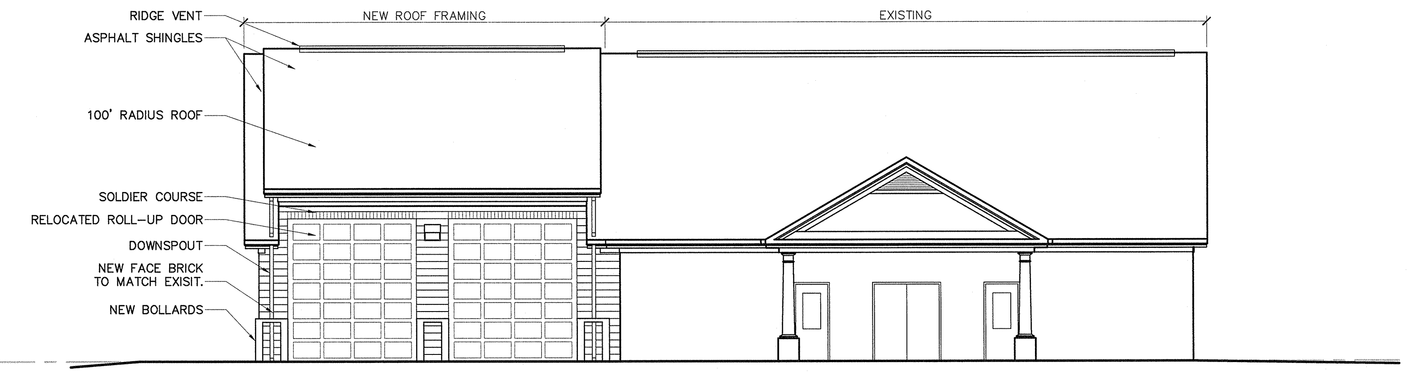
PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
ROOF PLANS

DRAWING NO.
A3.1



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



2 NORTH ELEVATION
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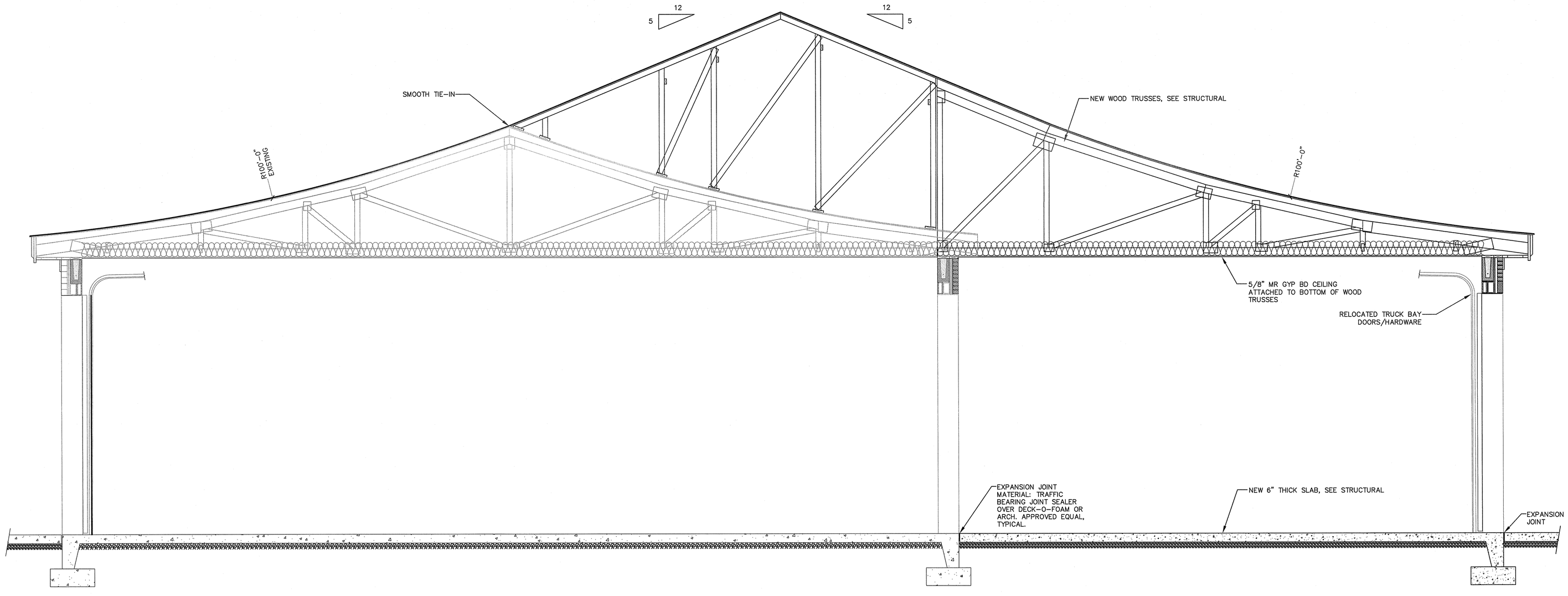

3 BUILDING SECTION
SCALE: 3/8" = 1'-0"

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RICHARD E. JOHNSON REGISTERED LANDSCAPE ARCHITECT 3517 NORTH CAROLINA GREENVILLE, NC
10-27-17

REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION	DHB	REJ

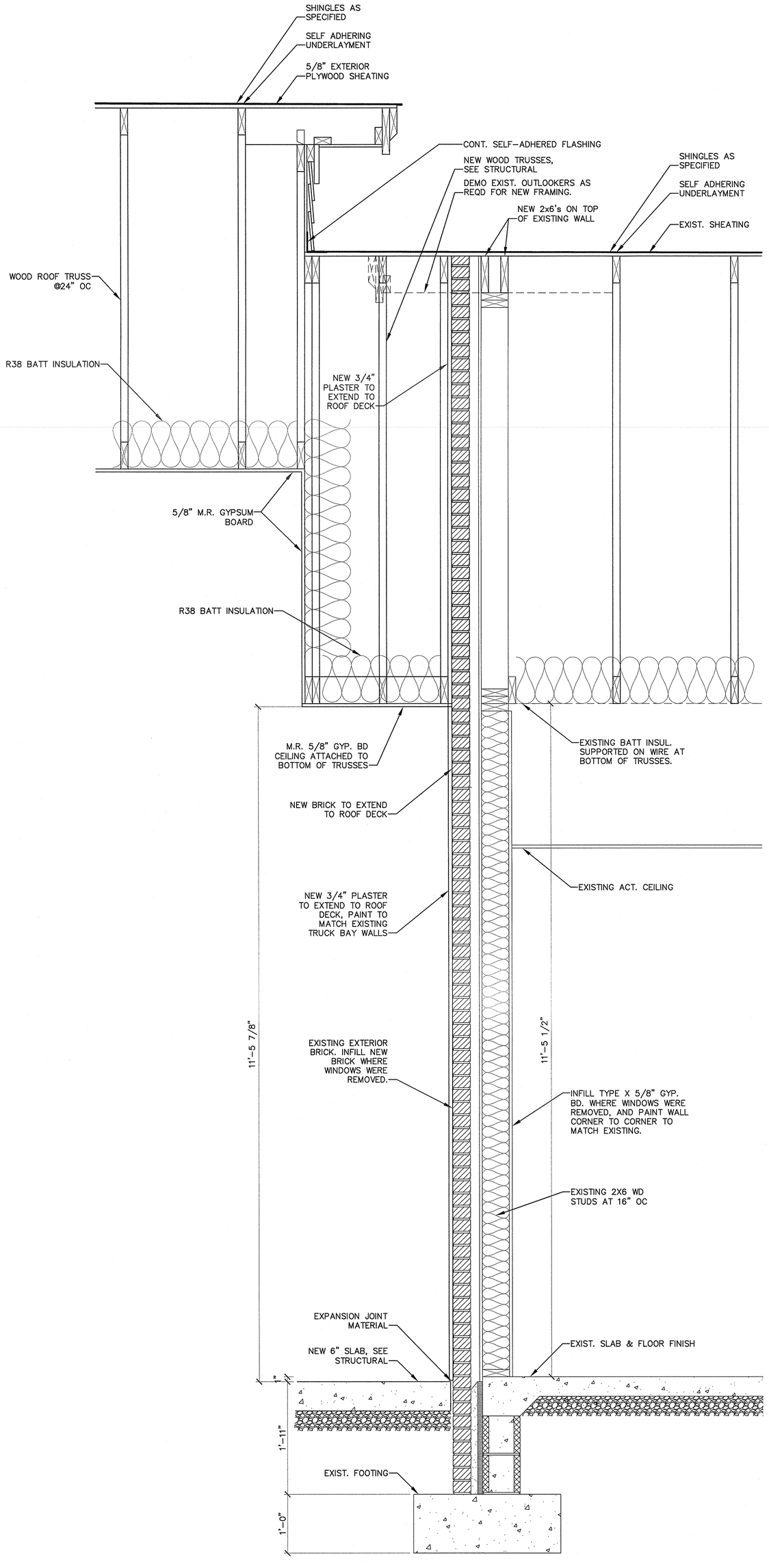
TEG PROJECT NO.
20160246

CLIENT PROJECT NO.
WORK ORDER NO. 24

PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
ELEVATIONS AND BUILDING SECTION

DRAWING NO.
A7.1



1 **WALL SECTION**
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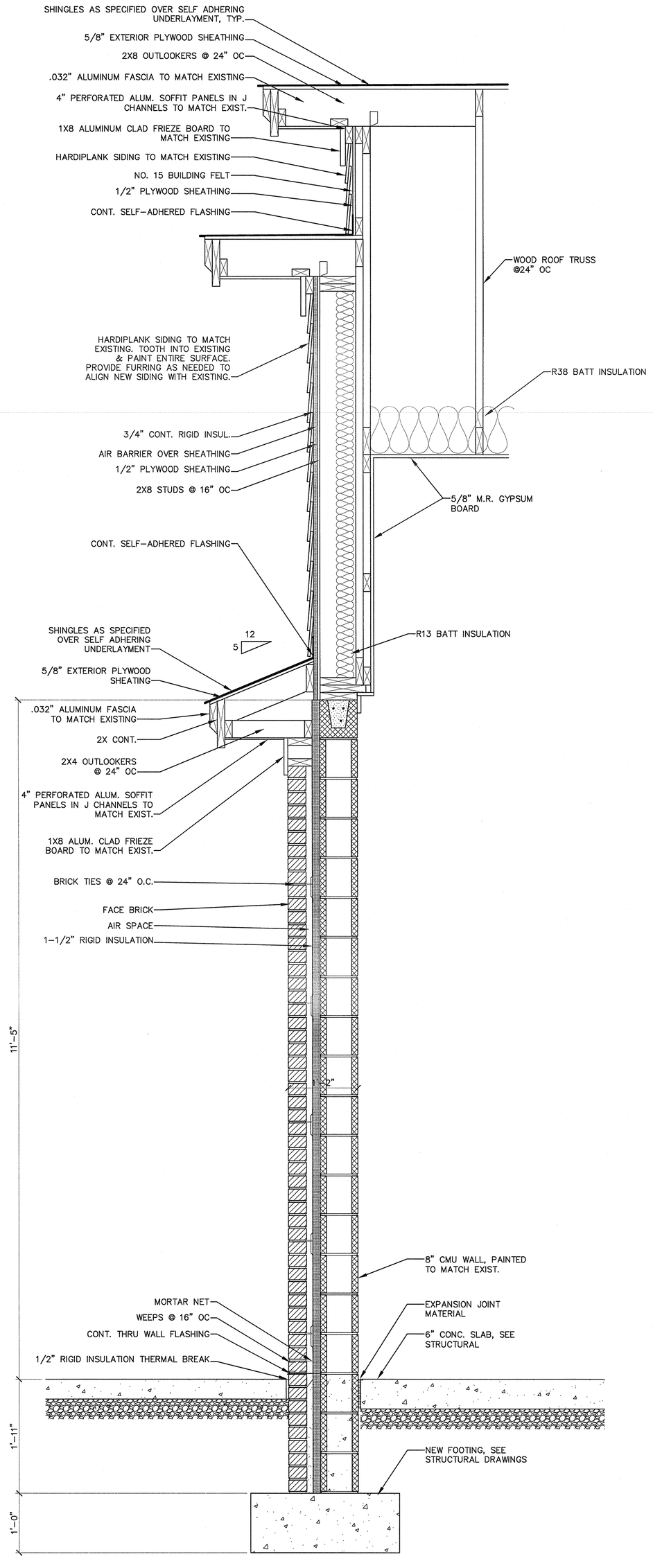

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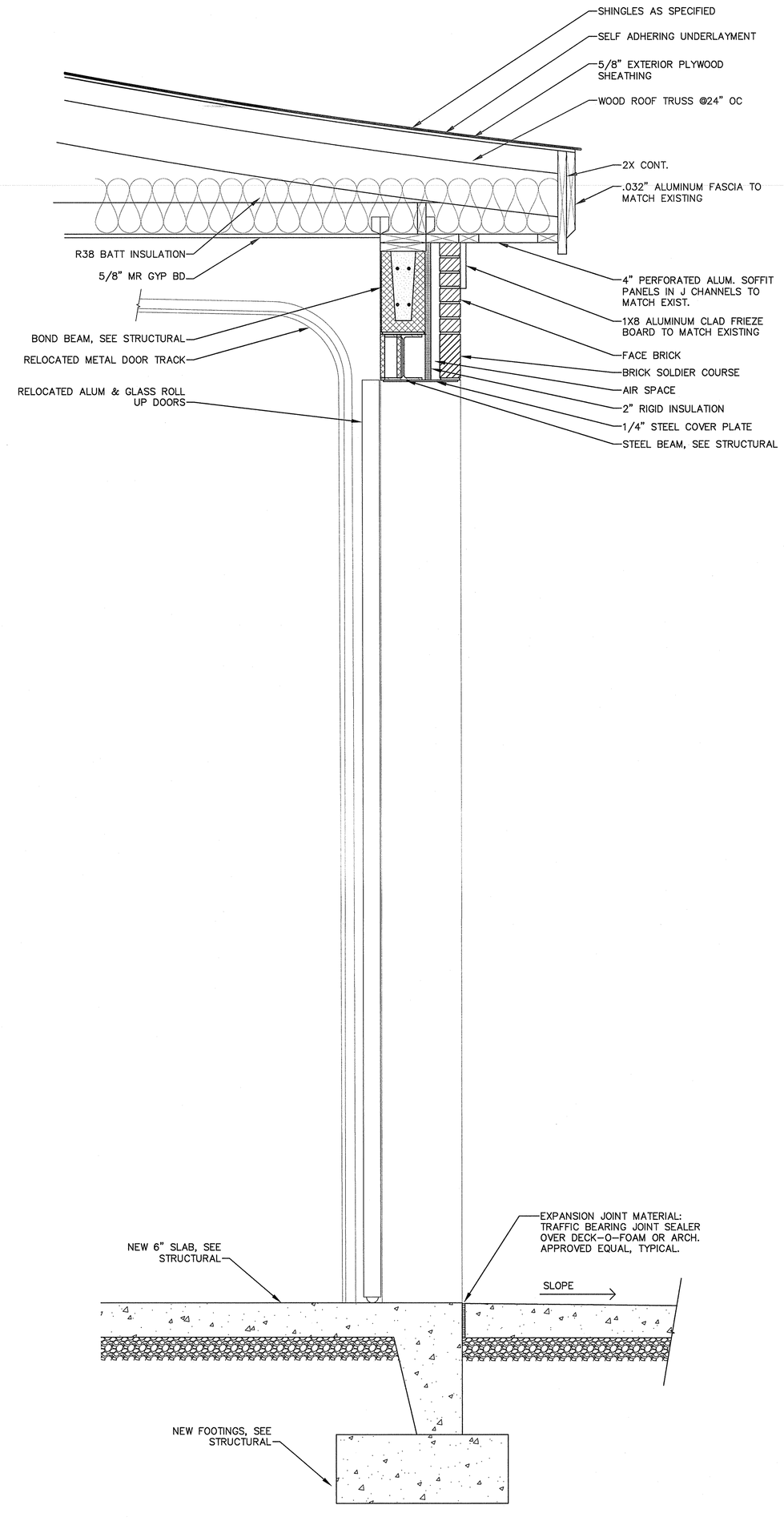

3 **WALL SECTION**
SCALE: 1" = 1'-0"

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RICHARD E. JOHNSON NORTH CAROLINA REGISTERED ARCHITECT 3617 GREENVILLE, NC 10/27/17

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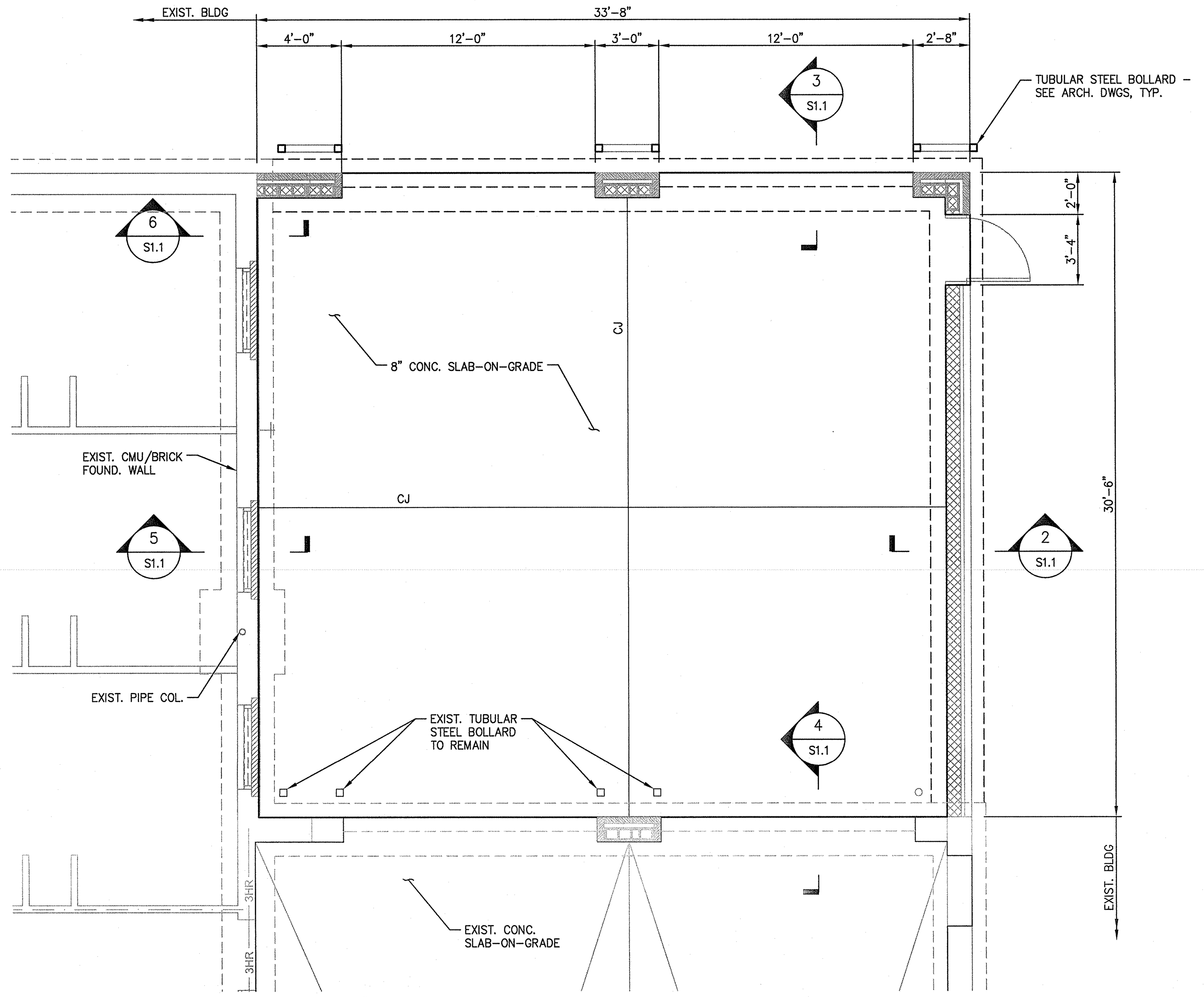
PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
WALL SECTIONS

DRAWING NO.
A7.2



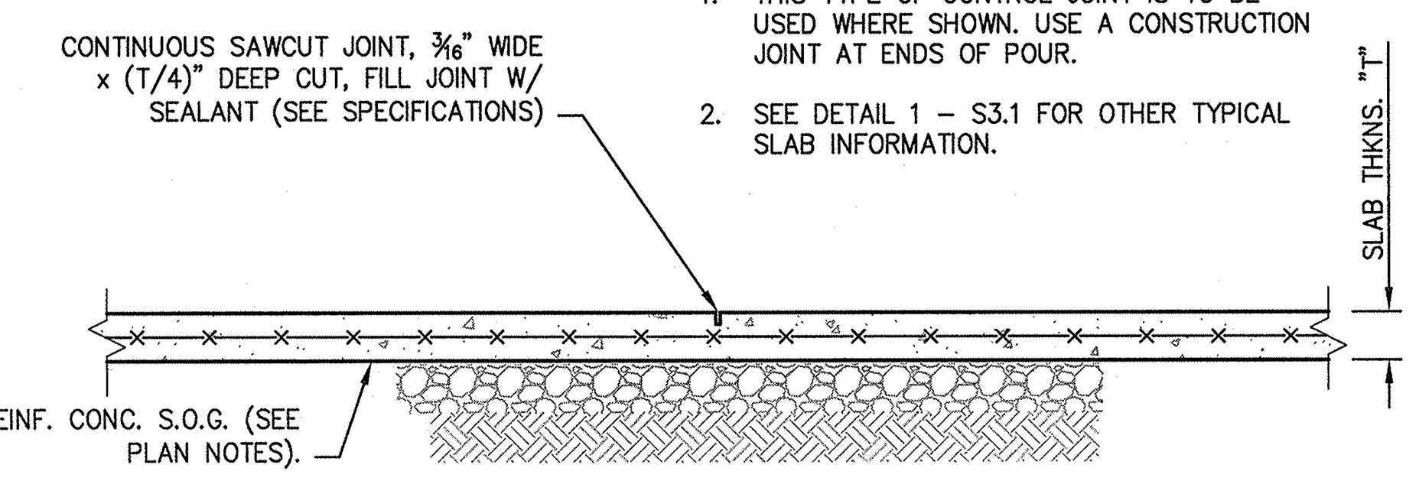
1 **FOUNDATION/SLAB PLAN**
SCALE: 1/4" = 1'-0"

PLAN NOTES:

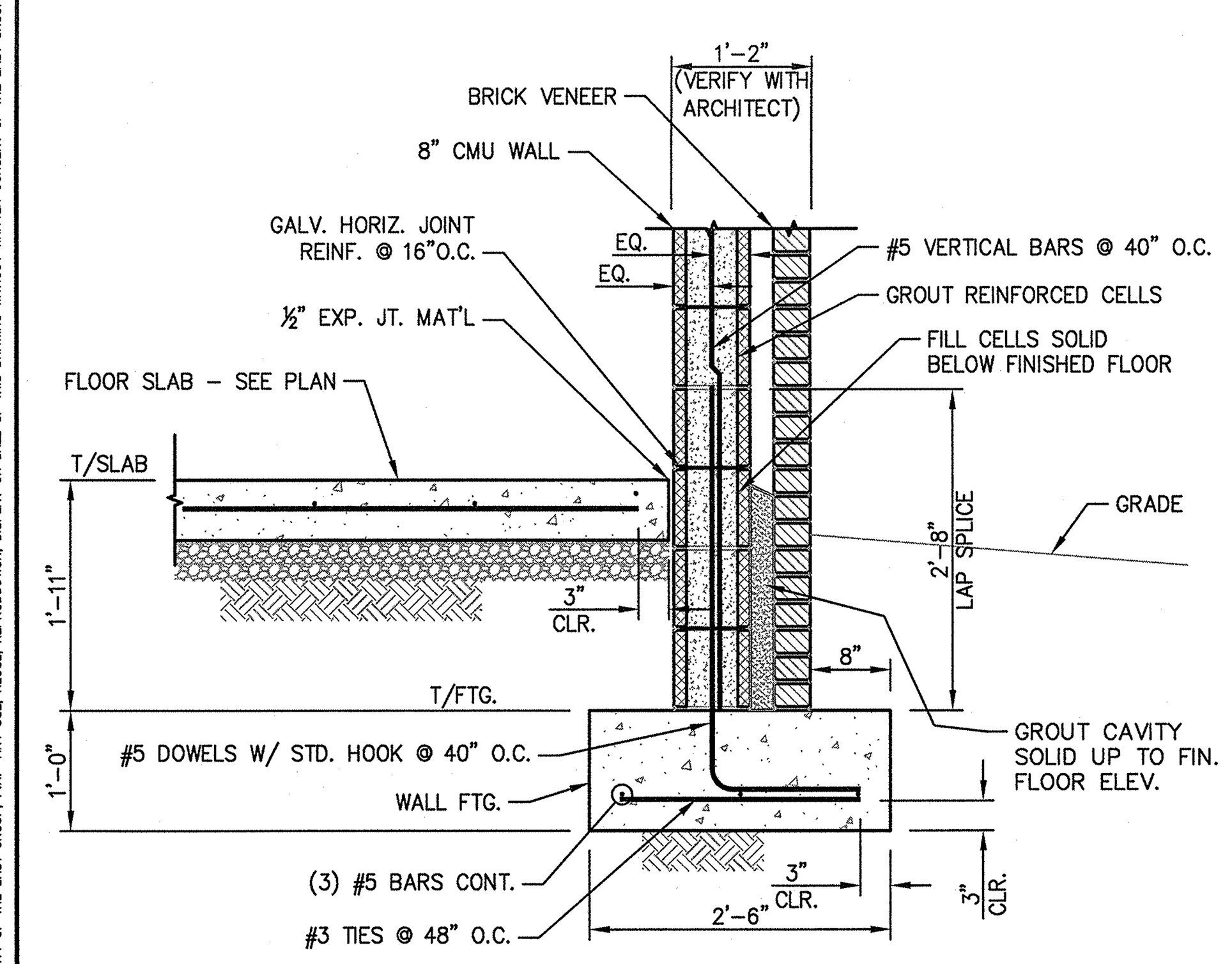
1. PLAN DIMENSIONS ARE TO FACE OF BRICK.
2. T/SL ELEVATION IN TRUCK BAY = 0'-0" U.N.O.
3. SLAB-ON-GRADE SHALL BE 8" CONCRETE W/#5 @16" O.C. EA. WAY WITH 3½" CLEAR TOP COVER TO BARS RUNNING NORTH-SOUTH. PLACE SLAB ON 10 MIL VAPOR RETARDER OVER 4" WASHED STONE OVER COMPACTED SUBGRADE.
4. T/FTG ELEVATION = -1'-11" FOR ALL EXISTING AND NEW FOOTINGS.
5. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE SIDEWALK AND PAVEMENT.

NOTES:

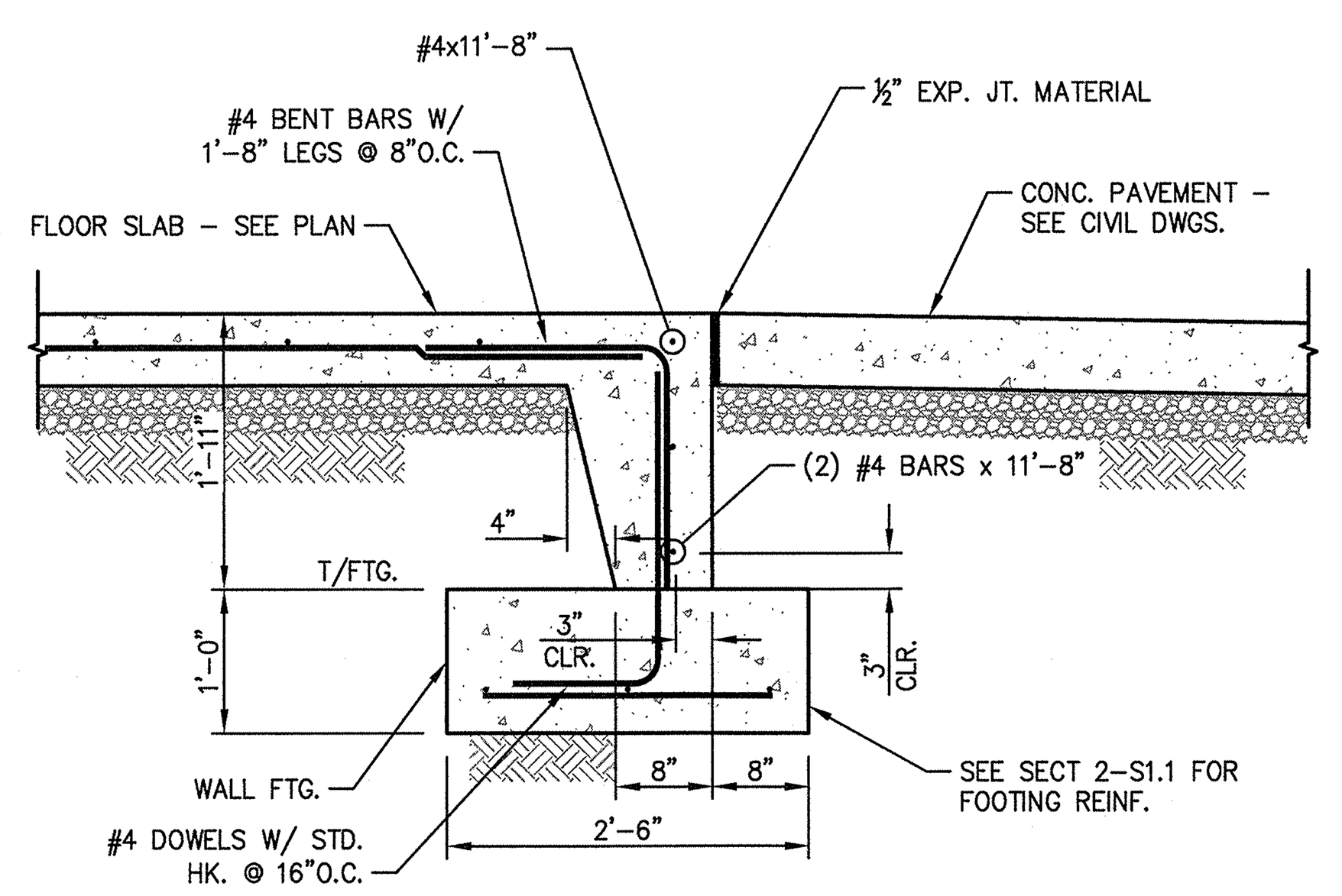
1. THIS TYPE OF CONTROL JOINT IS TO BE USED WHERE SHOWN. USE A CONSTRUCTION JOINT AT ENDS OF POUR.
2. SEE DETAIL 1 – S3.1 FOR OTHER TYPICAL SLAB INFORMATION.



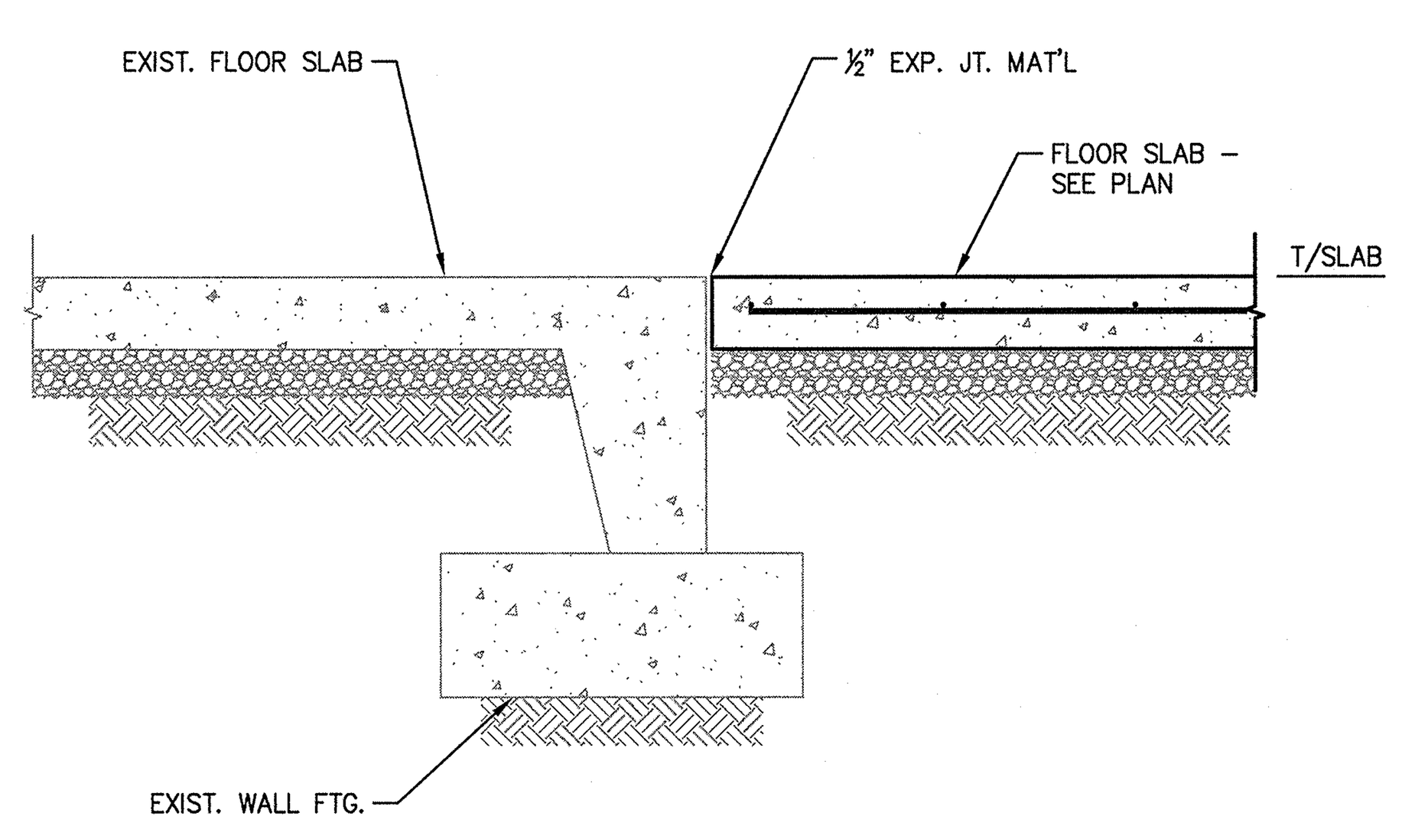
7 **TYP. CONTROL JOINT IN SLAB-ON-GRADE**
SCALE: 3/4" = 1'-0"



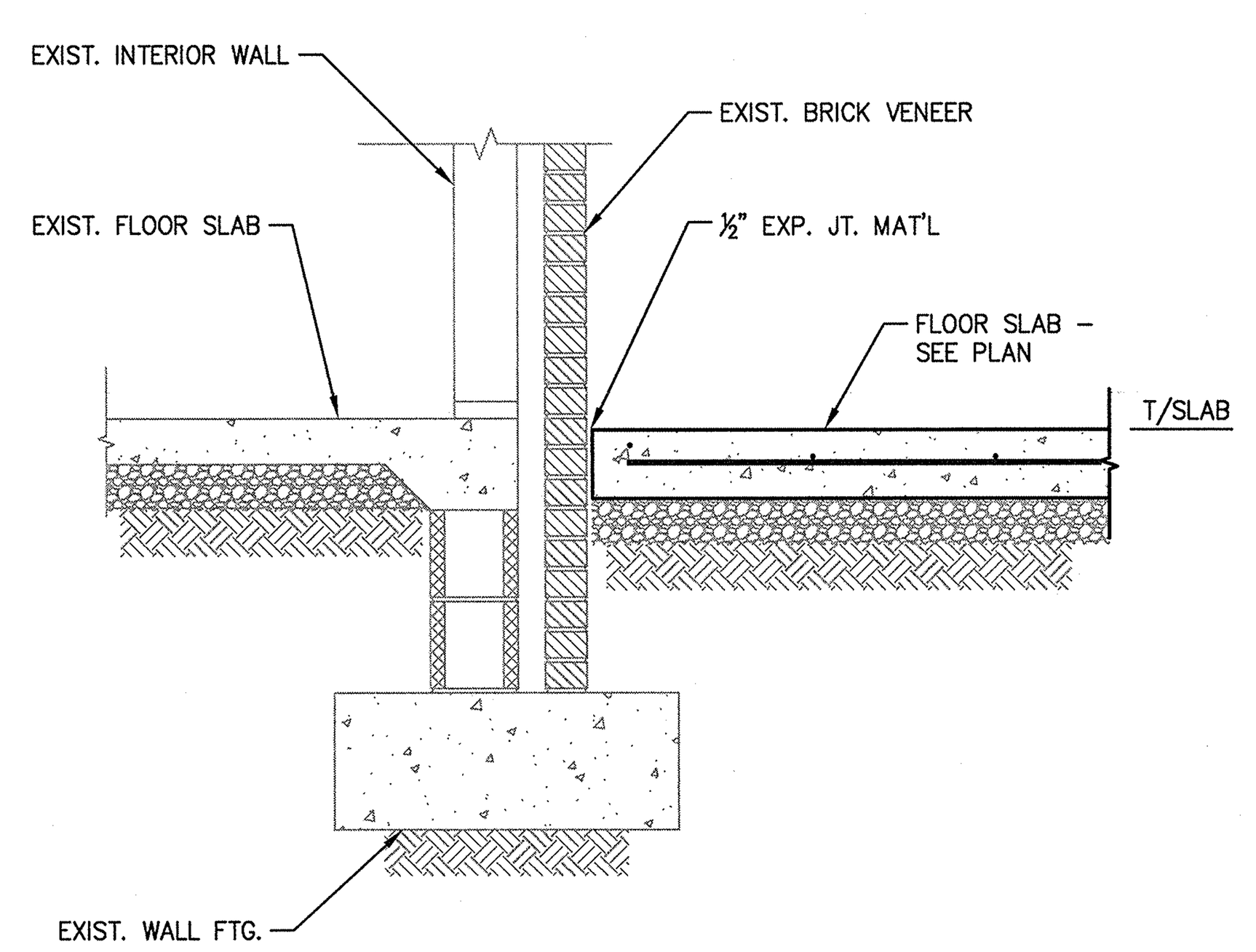
2 **FOUND. SECTION AT WALL**
SCALE: 3/4" = 1'-0"



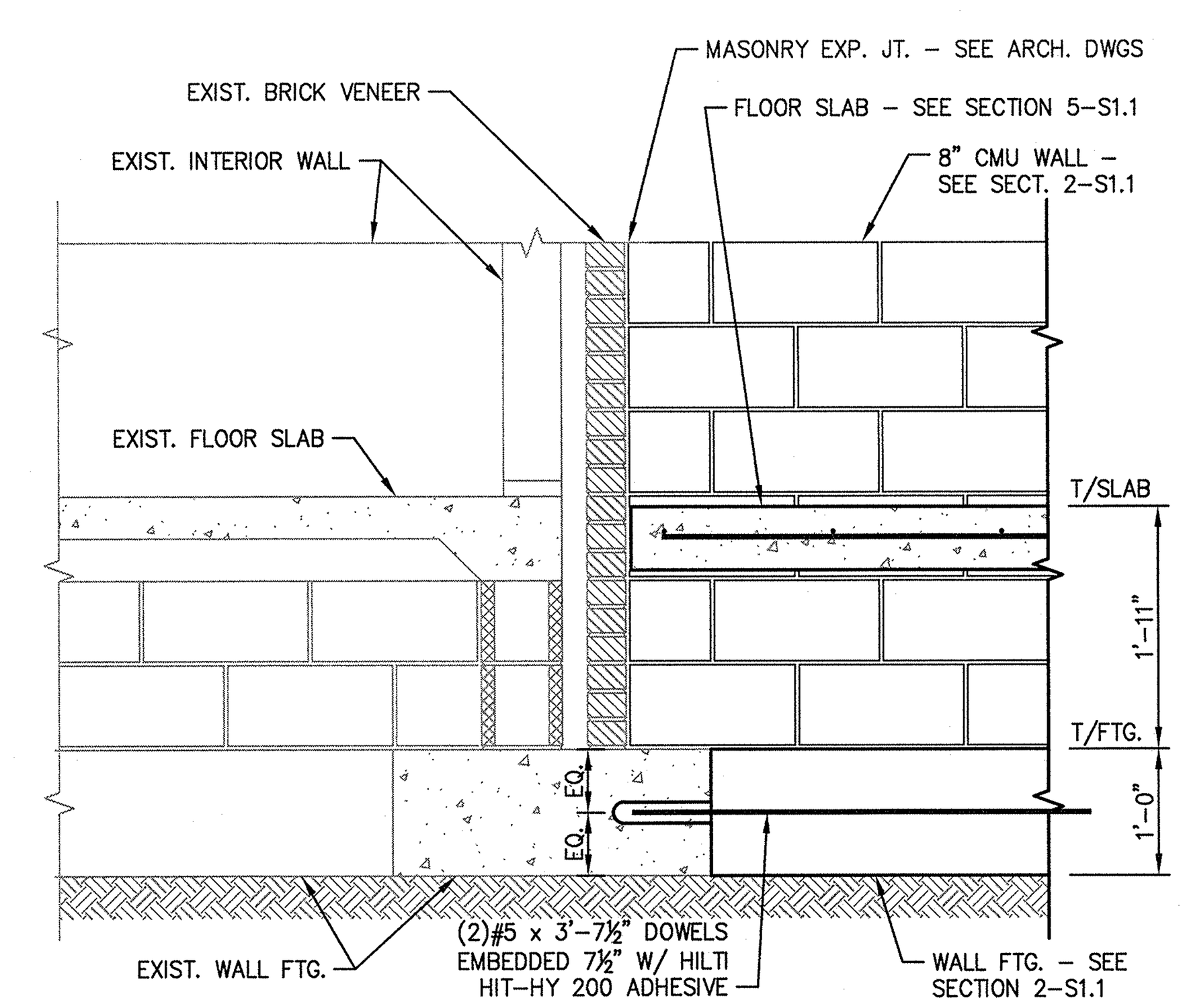
3 **FOUND. SECTION AT O/H DOORWAY**
SCALE: 3/4" = 1'-0"



4 **FOUND. SECTION AT EXIST. O/H DOORWAY**
SCALE: 3/4" = 1'-0"



5 **FOUND. SECTION AT EXIST. WALL**
SCALE: 3/4" = 1'-0"



6 **FOUND. SECTION AT EXIST. FTG.**
SCALE: 3/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER RICHARD B. ECKERT
10-31-17

REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION	DHB	REJ

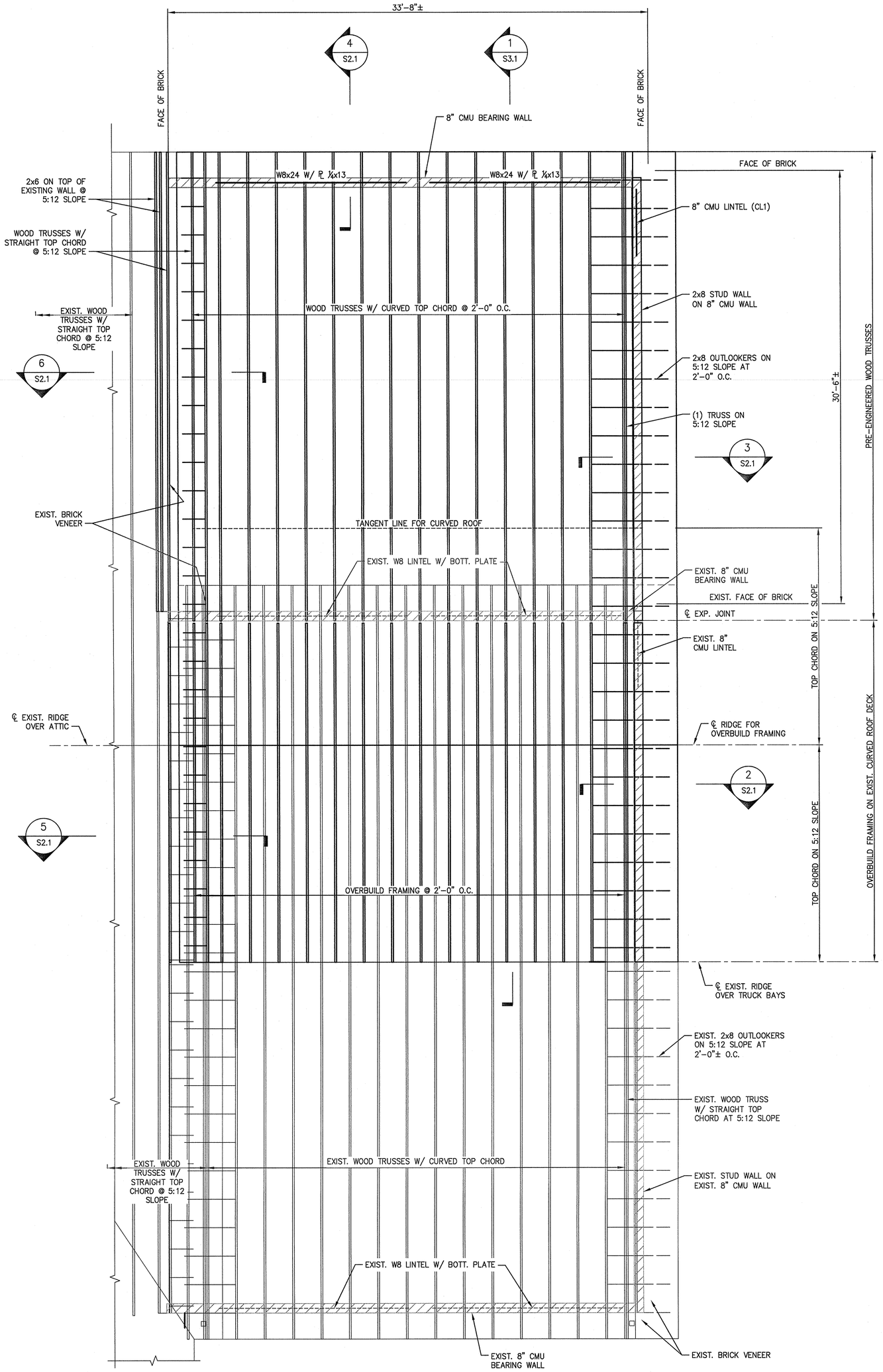
TEG PROJECT NO. 20160246

CLIENT PROJECT NO. WORK ORDER NO. 24

PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
TRUCK BAY EXPANSION FOUNDATION/SLAB PLAN

DRAWING NO.
S1.1

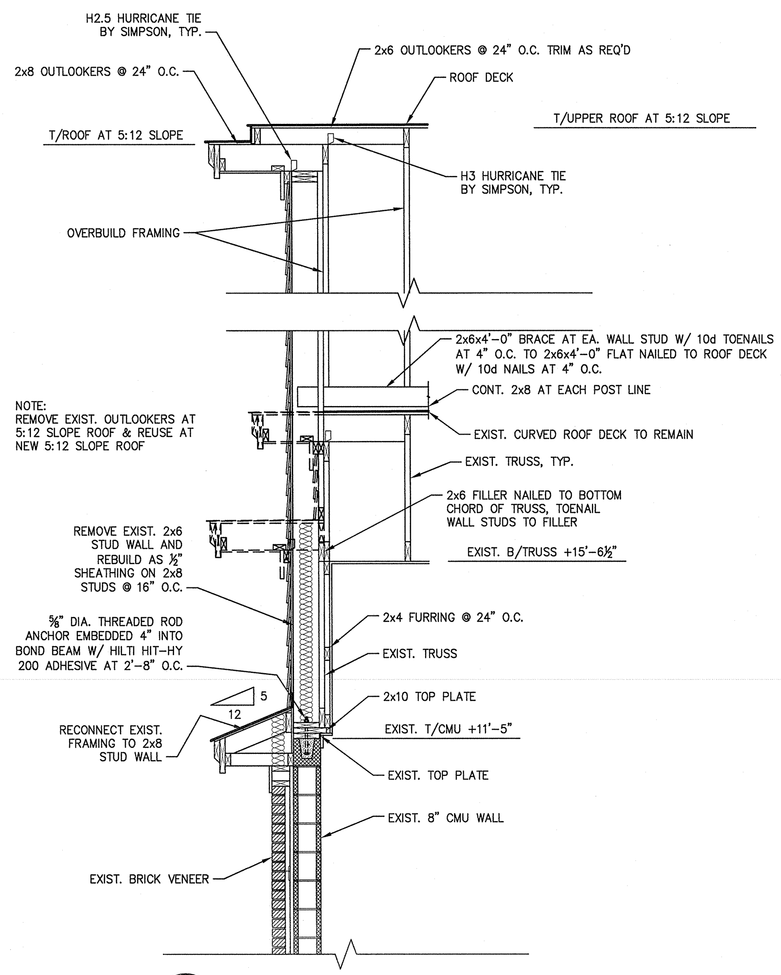


NORTH

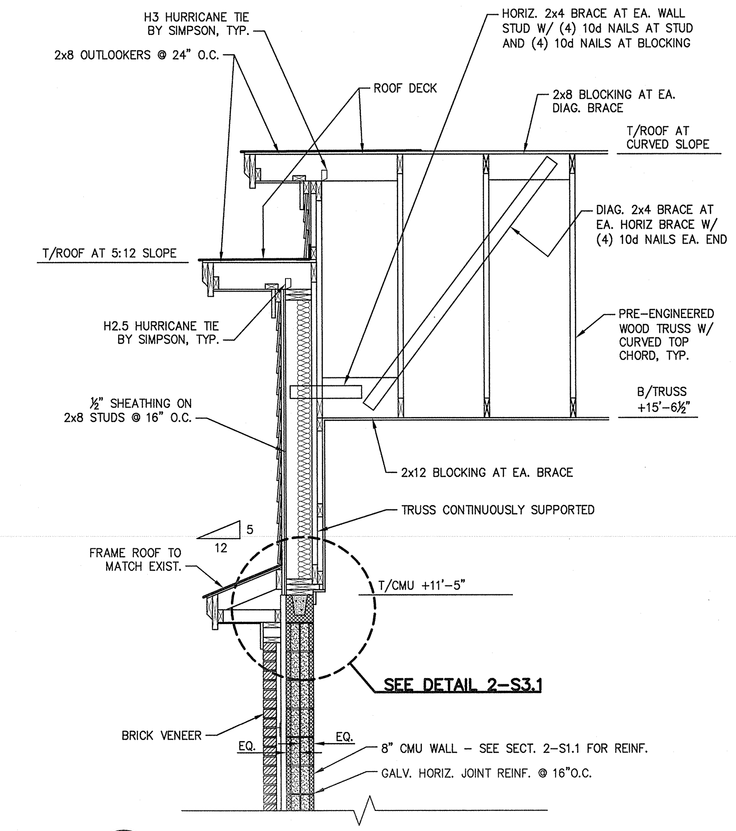
1 TRUCK BAY ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

PLAN NOTES:

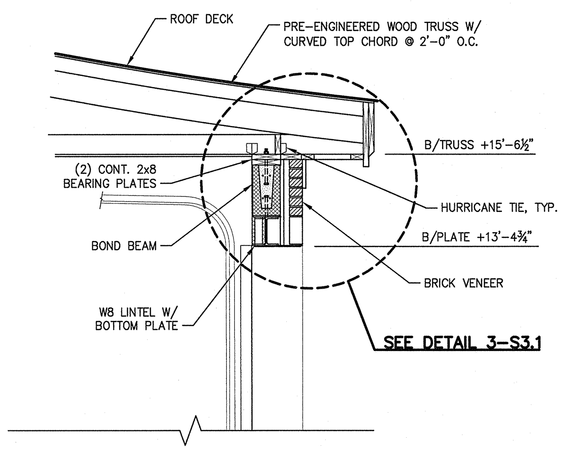
1. ROOF DECK SHALL BE STRUCTURAL 1 SHEATHING, MIN. 15/32" THICK. BLOCKING FOR PANEL EDGES IS NOT REQUIRED. ATTACH DECK TO FRAMING WITH 10d COMMON NAILS WITH 1½" PENETRATION @ 6" MAX O.C. ALONG EDGES AND INTERMEDIATE SUPPORTS.
2. ELEVATIONS INDICATED IN SECTIONS ARE FROM T/SLAB IN TRUCK BAY.



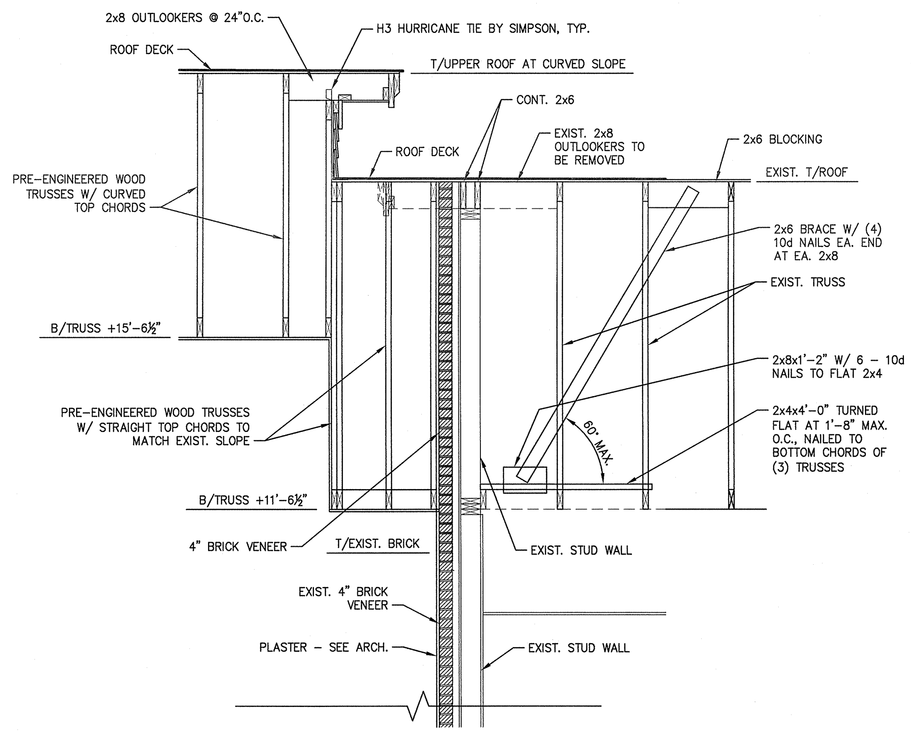
2 SECTION AT EXIST. SIDE WALL
SCALE: 1/2" = 1'-0"



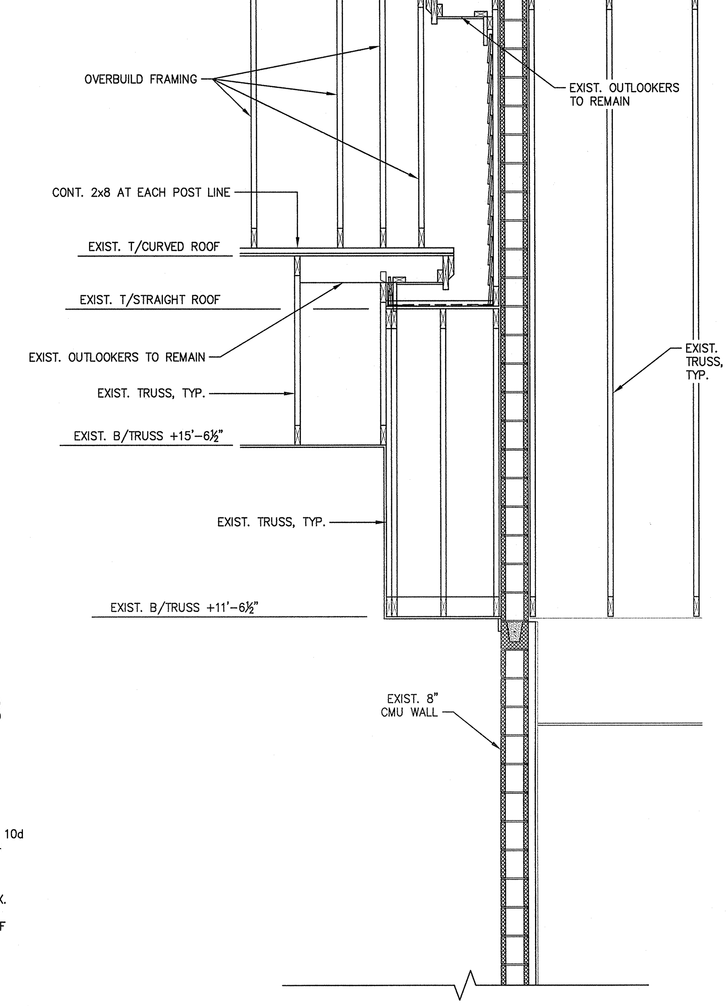
3 SECTION AT SIDE WALL
SCALE: 1/2" = 1'-0"



4 SECTION AT TRUSS BEARING AT O/H DOOR
SCALE: 1/2" = 1'-0"



6 SECTION AT EXIST. EXTERIOR WALL
SCALE: 1/2" = 1'-0"



5 SECTION AT EXIST. INTERIOR WALL
SCALE: 1/2" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 050 ENGINEER RICHARD B. EKNOIAN
10-31-17

REV	DATE	DESCRIPTION	BY	CHK
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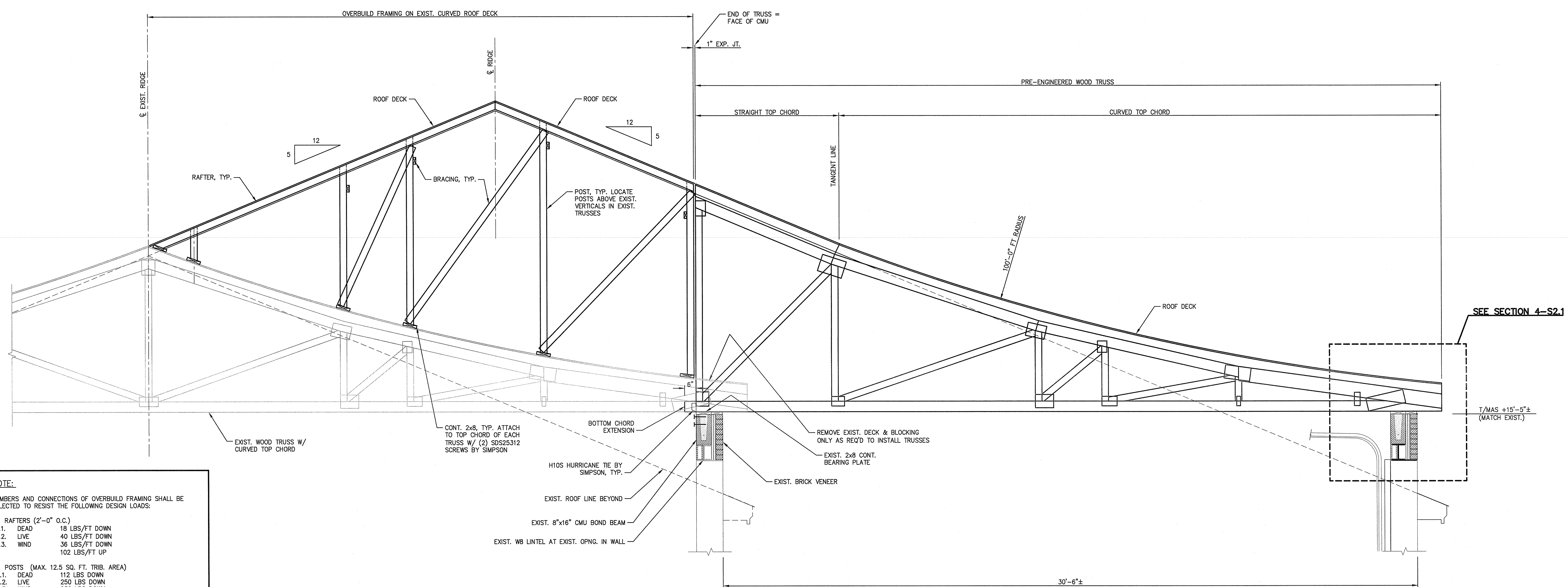
TEG PROJECT NO.
20160246

CLIENT PROJECT NO.
WORK ORDER NO. 24

PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
TRUCK BAY ROOF FRAMING PLAN

DRAWING NO.
S2.1

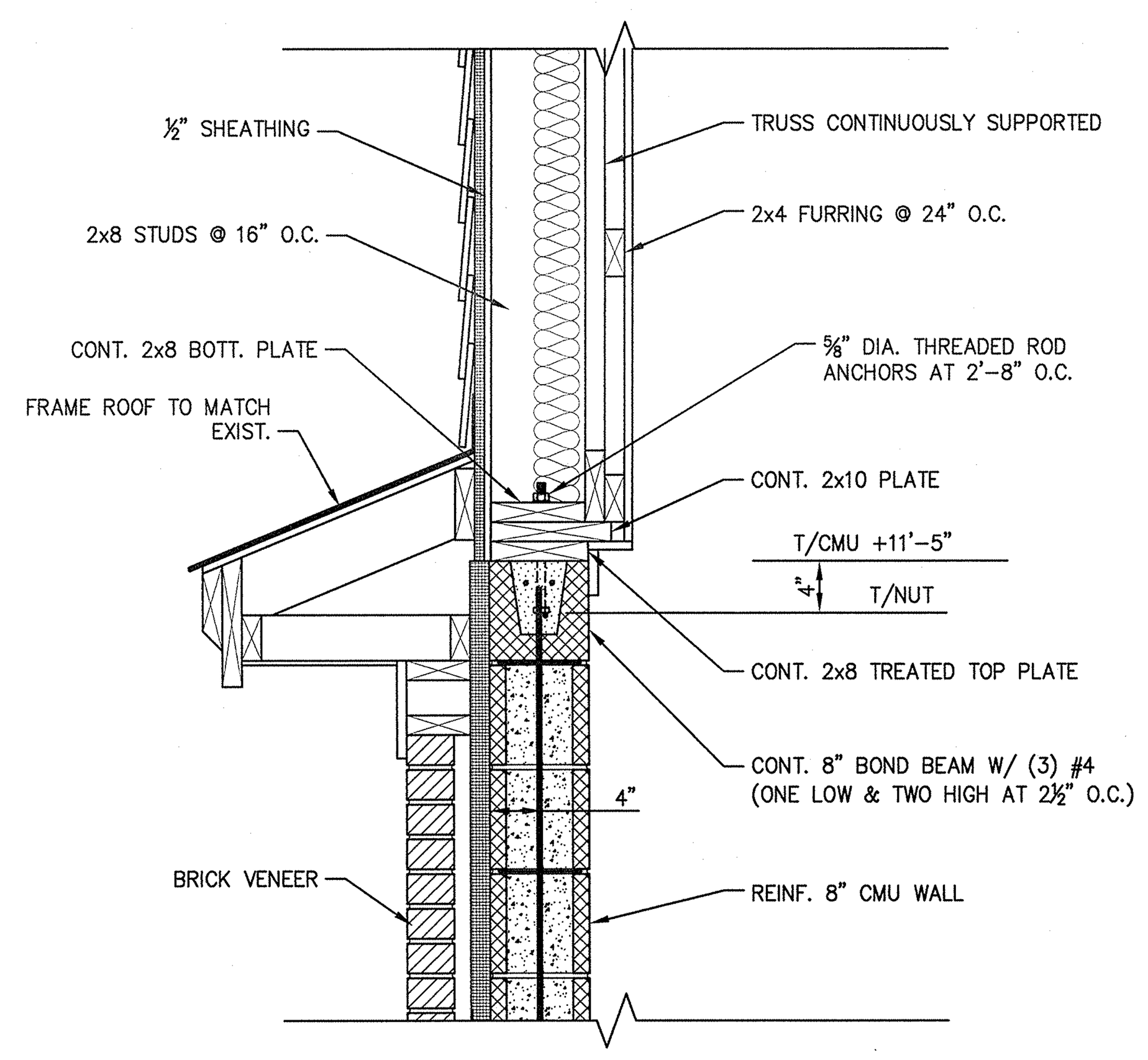


NOTE:

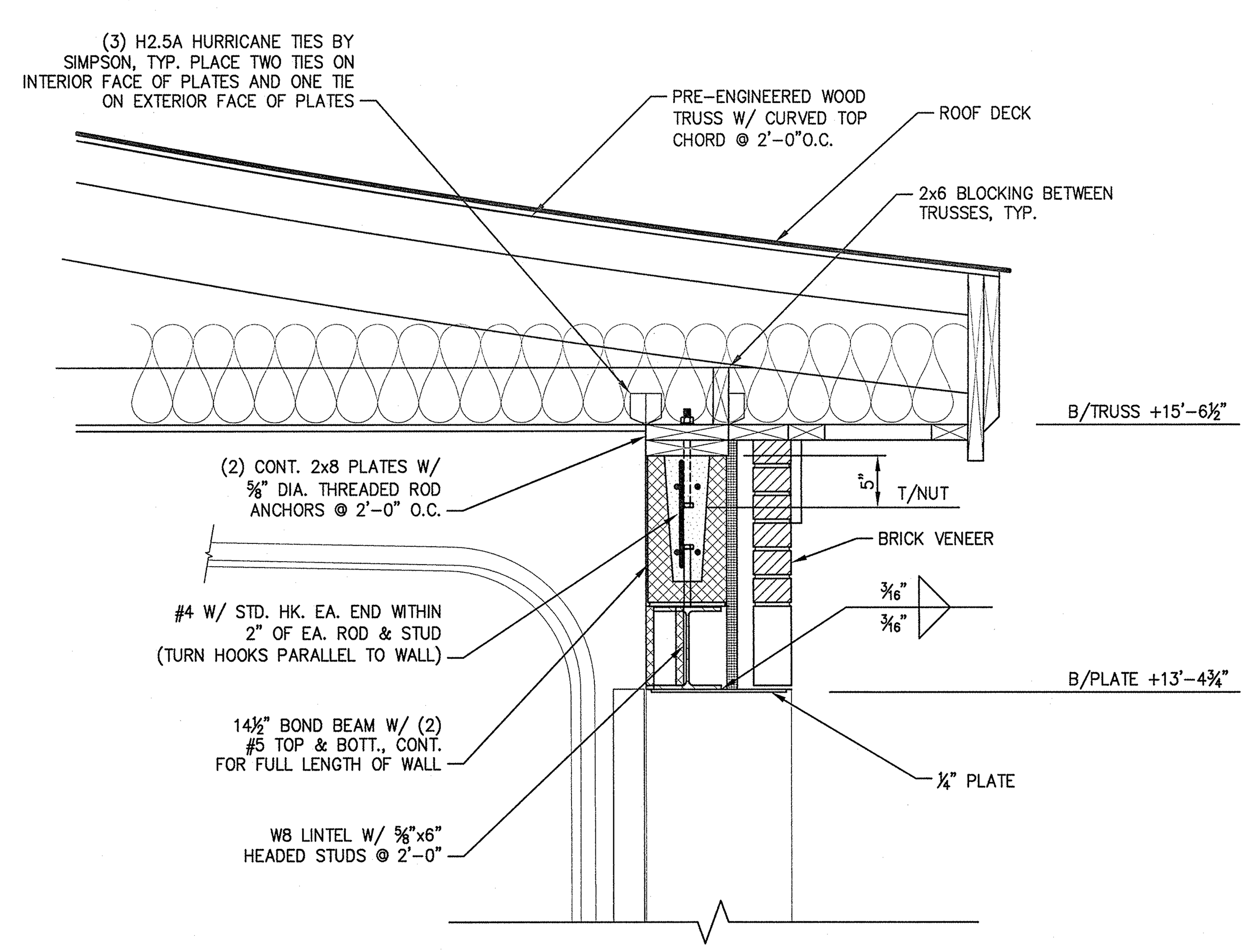
MEMBERS AND CONNECTIONS OF OVERBUILD FRAMING SHALL BE SELECTED TO RESIST THE FOLLOWING DESIGN LOADS:

1. RAFTERS (2'-0" O.C.)
   - 1.1. DEAD 18 LBS/FT DOWN
   - 1.2. LIVE 40 LBS/FT DOWN
   - 1.3. WIND 36 LBS/FT DOWN
     102 LBS/FT UP
2. POSTS (MAX. 12.5 SQ. FT. TRIB. AREA)
   - 2.1. DEAD 112 LBS DOWN
   - 2.2. LIVE 250 LBS DOWN
   - 2.3. WIND 230 LBS DOWN
     640 LBS UP

1 ROOF FRAMING SECTION
SCALE: 1/2" = 1'-0"



2 DETAIL AT SIDE WALL
SCALE: 1" = 1'-0"



3 DETAIL AT TRUSS BEARING AT O/H DOOR
SCALE: 1" = 1'-0"

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REV	DATE	DESCRIPTION	BY	CHK
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TEG PROJECT NO. 20160246

CLIENT PROJECT NO. WORK ORDER NO. 24

PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
ROOF FRAMING SECTIONS

DRAWING NO.
S3.1

GENERAL STRUCTURAL NOTES:

DESIGN LOADS:

1. DESIGN LOADS ARE FROM REQUIREMENTS OF 2012 NORTH CAROLINA STATE BUILDING CODE AND ASCE 7-05. DESIGN OCCUPANCY CATEGORY IS IV.

2. DEAD LOADS
   2.1. ROOF DEAD LOAD WITHOUT OVERBUILD — 17.8 PSF
   2.2. ROOF DEAD LOAD WITH OVERBUILD — 21.5 PSF

3. LIVE LOADS
   3.1. ROOF LOAD — 20 PSF
   3.2. SLAB-ON-GRADE UNIFORM LOAD — 350 PSF
   3.3. TRUCK MAX. AXLE LOAD — 40,000 LBS

4. SNOW LOAD
   4.1. GROUND SNOW LOAD — 10 PSF
   4.2. EXPOSURE FACTOR — 1.0
   4.3. THERMAL FACTOR — 1.0
   4.4. IMPORTANCE FACTOR — 1.2
   4.5. BALANCED SLOPED ROOF SNOW LOAD — 8.4 PSF
   4.6. MAX. UNBALANCED SLOPED ROOF SNOW LOAD AT EAVE — 21.5 PSF

5. WIND LOAD
   5.1. BASIC WIND SPEED — 110 MPH
   5.2. IMPORTANCE FACTOR — 1.15
   5.3. EXPOSURE CATEGORY — C
   5.4. ENCLOSURE — ENCLOSED

6. EARTHQUAKE LOAD
   6.1. MCE GROUND MOTION OF 0.2 SEC. SPECTRAL RESPONSE ACCELERATION — 0.17g
   6.2. MCE GROUND MOTION OF 1.0 SEC. SPECTRAL RESPONSE ACCELERATION — 0.07g
   6.3. SITE CLASS — D
   6.4. IMPORTANCE FACTOR — 1.5
   6.5. SEISMIC DESIGN CATEGORY — C

GENERAL NOTES:

1. METHODS, PROCEDURES & SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INSURE & MAINTAIN THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

2. COORDINATE THESE DRAWINGS WITH OWNER, CIVIL, MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS.

3. SPECIAL INSPECTIONS ARE REQUIRED PER 2012 NORTH CAROLINA STATE BUILDING CODE. SEE STATEMENT OF SPECIAL INSPECTIONS ON DRAWING No. S5.2.

FOUNDATION NOTES:

1. SHALLOW FOUNDATIONS AND SLAB-ON-GRADE ARE DESIGNED FOR AN ALLOWABLE NET SOIL BEARING PRESSURE OF 2,000 PSF. GEOTECHNICAL ENGINEER TO VERIFY PRIOR TO CONCRETE PLACEMENT.

2. CONTRACTOR SHALL PROVIDE SHORING AND BRACING OF EXCAVATION AS REQUIRED TO PROTECT FOUNDATIONS OF ADJACENT EXISTING STRUCTURES AND PERSONNEL IN ACCORDANCE WITH OSHA REGULATIONS. ANY SHORING/BRACING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN NORTH CAROLINA.

3. ALL FOOTINGS SHALL BE ON UNDISTURBED SOIL OR COMPACTED FILL.

4. EXCAVATIONS FOR FOOTINGS SHALL HAVE THE SIDES & BOTTOMS TEMPORARILY LINED WITH 6 MIL. POLYETHYLENE, IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HOURS OF THE EXCAVATION OF THE FOOTING.

5. FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION WHICH DIFFER FROM THOSE EXPECTED SHALL BE REPORTED TO THE ENGINEER OF RECORD BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.

6. NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUB GRADE CONTAINING FREE WATER, FROST, ICE OR LOOSE MATERIAL.

7. ALL SLAB ON GRADE & OTHER ON-GRADE INTERIOR HORIZONTAL SURFACES SHALL BE PLACED OVER A 10 MIL. VAPOR BARRIER & 4" No. 57 STONE PLACED ON SUB GRADE PROPERLY PREPARED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.

8. THE CONTRACTOR SHALL PERFORM EXCAVATIONS, FOUNDATION CONSTRUCTION & PREPARATION OF THE SUB GRADE IN ACCORDANCE WITH THE N.C. BUILDING CODE.

9. IF UNDERMINING OF FOOTINGS OCCURS, FILL VOIDS WITH HIGH SLUMP CONCRETE. DO NOT ATTEMPT TO REPLACE & RECOMPACT SOIL.

CONCRETE NOTES:

A. CONCRETE:

1. ALL CONCRETE WORK SHALL CONFORM TO ACI 318-08 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE'.

2. CONCRETE MIX SHALL CONFORM TO ASTM C94 'READY-MIXED CONCRETE'. CONCRETE SHALL HAVE NORMAL WEIGHT COARSE AGGREGATES & SHALL HAVE THE MINIMUM COMPRESSIVE STRENGTHS (f'c) AT 28 DAYS AS FOLLOWS:
   2.1. FOOTINGS — 3,000 PSI
   2.2. SLAB-ON-GRADE — 4,500 PSI

3. CEMENT SHALL BE TYPE 1 PORTLAND CEMENT CONFORMING TO ASTM C150 'PORTLAND CEMENT'.

4. FOR CONCRETE DURABILITY, SLAB-ON-GRADE CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45 AND HAVE NO MORE THAN 25% FLY ASH AS A PERCENTAGE OF CEMENTITIOUS MATERIALS BY WEIGHT.

5. NORMAL-WEIGHT AGGREGATES SHALL CONFORM TO ASTM STANDARD C33, 'CONCRETE AGGREGATES'. MINIMUM SIZE OF COARSE AGGREGATE SHALL BE (¾"). MAXIMUM SIZE OF COARSE AGGREGATE SHALL NOT EXCEED:
   a) ONE FIFTH (⅕) OF NARROWEST DIMENSION BETWEEN FORMS
   b) THREE QUARTERS (¾) OF THE MINIMUM CLEAR SPACING BETWEEN REBAR
   c) ONE THIRD (⅓) OF THE DEPTH OF SLABS

6. MAXIMUM CONCRETE SLUMP SHALL BE FOUR (4) INCHES TYPICAL, UNLESS NOTED OTHERWISE.

7. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.

8. MIXING, TRANSPORTING & PLACING OF CONCRETE SHALL CONFORM TO ACI 301-02.

9. ALL CONCRETE BATCHING SHALL OCCUR AT THE CONCRETE PLANT. ADDITION OF ADMIXTURES OR WATER AT THE JOB SITE IS NOT ALLOWED.

10. SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF FLOOR FINISHES.

B. REINFORCEMENT:

1. CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCING BARS SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT. ALL LAP SPLICES SHALL BE CLASS "B" UNLESS NOTED OTHERWISE.

2. HORIZONTAL FOOTING REINFORCEMENT SHALL BE CONTINUOUS & SHALL HAVE 90° BENDS & EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED WITH A CLASS B TENSION SPLICE AT CORNERS & INTERSECTIONS. TOP BAR CRITERIA SHALL APPLY IF 12" OR MORE OF FRESH CONCRETE IS PLACED BELOW BAR.

3. ALL REBAR SHALL BE CLEAN AND FREE OF RUST, OIL, DIRT OR OTHER DEBONDING AGENTS.

4. CONCRETE COVER TO REINFORCING STEEL SHALL BE:
   a) CONCRETE DEPOSITED AGAINST EARTH: — 3 INCHES
   b) FORMED SURFACES EXPOSED TO EARTH OR WEATHER
      i) #5 BARS & SMALLER: — 1 1/2 INCHES
      ii) #6 BARS & LARGER: — 2 INCHES
   c) SURFACES NOT EXPOSED TO EARTH OR WEATHER
      i) SLABS, WALLS & JOISTS: — 3/4 INCHES
      ii) BEAMS & GIRDERS & COLUMNS: — 1 1/2 INCHES

5. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED & SPACED IN FORMS, & SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES & REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318 & THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.

6. CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING & PLACEMENT, SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.

C. CONCRETE QUALITY CONTROL TESTING:

1. THE CONCRETE SUPPLIER SHALL SELECT CONSTITUENT MATERIALS AND MIX PROPORTIONS FOR THE CONCRETE TO PROVIDE NORMAL WEIGHT CONCRETE OF THE SPECIFIED STRENGTH WITH ADEQUATE DURABILITY TO WITHSTAND THE ENVIRONMENT TO WHICH IT MAY BE EXPOSED.

2. THE CONCRETE SUPPLIER SHALL PROVIDE THE ENGINEER WITH A STATEMENT CERTIFYING MATERIALS THAT WILL BE USED IN THE CONCRETE AND REASONABLE EVIDENCE THAT THE MIX PROPORTIONS WILL PRODUCE THE QUALITY OF CONCRETE REQUIRED.

3. THE CONCRETE SUPPLIER SHALL ENSURE THAT CONCRETE MATERIALS AND PRODUCTION COMPLY WITH ASTM STANDARD C94 'READY-MIXED CONCRETE'.

4. NOT LESS THAN ONE SERIES OF CONTROL TESTS IN ACCORDANCE WITH ACI 311.5 R 'BATCH PLANT INSPECTION AND FIELD TESTING OF READY-MIXED CONCRETE' SHALL BE MADE FOR EACH 100 CUBIC YARDS OF CONCRETE PLACED ON ANY ONE DAY. WHEN THE FREQUENCY OF STRENGTH TESTS NOTED ABOVE RESULTS IN LESS THAN 5 TESTS FOR A GIVEN CLASS OF CONCRETE, TESTS SHALL BE MADE FROM 5 RANDOMLY SELECTED BATCHES.

5. ALL TESTS SHALL BE CARRIED OUT BY QUALIFIED PERSONNEL AND ALL DATA AND TEST RESULTS REPORTED TO THE OWNER, ENGINEER, AND CONTRACTOR.

D. CONCRETE FINISHING:

1. CONCRETE FLOOR SLAB SHALL HAVE A HARD STEEL TROWELED FINISH TO MATCH EXISTING TRUCK BAY. TROWELING SHALL BEGIN AFTER SURFACE HAS RECEIVED A FLOAT FINISH. FINAL SURFACE SHALL BE NON-SLIP, CLASS R11, PER DIN 51130.

2. FINISHED CONCRETE SHALL BE TREATED WITH ASHFORD FORMULA LIQUID FLOOR TREATMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS SPECIFIC TO THIS PROJECT. CONTRACTOR SHALL SUBMIT SPECIFIC MANUFACTURER'S RECOMMENDATIONS FOR THIS PROJECT TO ENGINEER OF RECORD ALONG WITH CONCRETE MIX DESIGNS.

REINFORCED CONCRETE MASONRY NOTES:

1. ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH ACI 530. MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF THESE CONTRACT DOCUMENTS.

2. PLACE ALL VERTICAL REINF. BARS IN CENTERS OF BLOCK CELLS U.N.O.

3. MORTAR TYPE SHALL CONFORM TO ASTM C 55. MORTAR SHALL BE TYPE "S" PER ASTM C270.

4. ALL MASONRY UNITS SHALL COMPLY WITH ASTM C-90 AND C-129.

5. FILL ALL CELLS AT VERTICAL REINFORCEMENT WITH GROUT.

6. CONTRACTOR SHALL COORDINATE LOCATION OF ALL OPENINGS. SEE ARCH., MECH., ELEC., AND PLUMBING DWGS. FOR SIZE AND LOCATION OF OPENINGS.

7. HORIZONTAL REINFORCING FOR ALL MASONRY WALLS SHALL BE #9 GALV. TRUSS TYPE JOINT REINF. AT 16" VERTICALLY O.C., UNLESS NOTED OTHERWISE. SET PREFABRICATED CORNER PIECES AT 8" VERTICALLY O.C.

8. GROUT FOR REINFORCED MASONRY SHALL BE FINE GROUT PER ASTM C476. MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 3000 PSI.

9. REINFORCING GRADE AND DETAILS FOR MASONRY SHALL BE AS THAT FOR CONCRETE. TIE REBAR IN POSITION, AND PLACE GROUT AROUND REINFORCING DURING CONSTRUCTION OF MASONRY. DO NOT PUSH REINFORCING DOWN INTO PREVIOUSLY PLACED GROUT FILL. SET ANCHORS SIMILARLY.

10. ALL CELLS BELOW GRADE SHALL BE FULLY GROUTED.

11. CEMENTITIOUS GROUT UNDER BASE PLATES SHALL BE UNISORB V-1 NON SHRINK GROUT OR EQUIVALENT. CEMENTITIOUS GROUT SHALL ACHIEVE A MINIMUM COMPRESSIVE STRENGTH OF 6,000 PSI AT 28 DAYS PER ASTM C109.

STRUCTURAL STEEL NOTES:

A. GENERAL:

1. DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION, UNLESS OTHERWISE MODIFIED ON THE DESIGN DRAWINGS OR IN THE SPECIFICATIONS.

2. MATERIAL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS, UNLESS NOTED:
   WIDE FLANGE SHAPES — ASTM A992
   MISC. STEEL (CHANNELS, ANGLES, PLATES, ETC.) — ASTM A36
   WELDING ELECTRODES — AWS D1.1, E70XX

3. CHECKED SHOP DRAWINGS SHOWING STEEL SIZES, CONNECTION DETAILS, NUMBER OF BOLTS, WELD SIZES, ETC., SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO FABRICATION.

B. CONNECTIONS:

1. DETAILING OF STRUCTURAL STEEL CONNECTIONS MUST BE CONSISTENT WITH RECOGNIZED, PUBLISHED METHODS SUCH AS THE AISC "MANUAL OF STEEL CONSTRUCTION", 13th EDITION, "ENGINEERING FOR STEEL CONSTRUCTION", OR "VOLUME II CONNECTIONS MANUAL OF STEEL CONSTRUCTION".

2. MEMBERS & CONNECTIONS NOT FULLY DEVELOPED ON THE CONTRACT DRAWINGS & CONNECTIONS FOR ANY PORTION OF THE STRUCTURE NOT SHOWN ON THE CONTRACT DRAWINGS SHALL BE DETAILED ON THE SHOP DRAWINGS.

3. STRUCTURAL STEEL DETAILING, FABRICATION & ERECTION SHALL CONFORM TO THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (MARCH 9, 2005), & THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS & BRIDGES" (MARCH 18, 2005).

4. SHOP TESTING OF WELDS SHALL BE PERFORMED AS OUTLINED IN THE SPECIFICATIONS.

C. FABRICATION:

1. WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE AWS D1.1. 1) ELECTRODES FOR SHOP & FIELD WELDS SHALL BE CLASS E70XX. ALL WELDING SHALL BE DONE BY QUALIFIED, CERTIFIED WELDERS PER THE ABOVE STANDARD.

2. UNLESS OTHERWISE NOTED, ALL WELDS TO BE CONTINUOUS 1/4" FILLET WELDS.

D. ERECTION:

1. THERE SHALL BE NO FIELD CUTTING OR SPLICING OF STRUCTURAL STEEL MEMBERS WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

2. CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR STRUCTURE SO IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND FOUNDATIONS ARE DESIGNED FOR A COMPLETED CONDITION ONLY & THEREFORE REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION.

E. FINISHES:

1. ALL STRUCTURAL STEEL NOT DESIGNATED AS GALVANIZED SHALL BE SHOP PRIMED PER SPECIFICATIONS.

2. SEE SPECIFICATIONS FOR ALL FINISHED PAINT REQUIREMENTS.

WOOD FRAMING:

1. ALL STRUCTURAL WOOD MEMBERS SHALL BE No. 2 SOUTHERN YELLOW PINE, 19% MAXIMUM MOISTURE CONTENT, UNLESS OTHERWISE NOTED. WEB MEMBERS OF PRE-ENGINEERED TRUSSES MAY BE No.3 SYP IF ACCEPTABLE TO TRUSS ENGINEER.

2. ALL PRE-ENGINEERED TRUSSES SHALL BE DESIGNED BY THE SUPPLIER TO SUPPORT ALL REQUIRED DESIGN LOADS. CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS SEALED BY A NC LICENSED PROFESSIONAL ENGINEER TO ENGINEER OF RECORD FOR REVIEW.

3. ALL WOOD FRAMING DIRECTLY EXPOSED TO WEATHER, OR IN DIRECT CONTACT WITH MASONRY, SOIL OR CONCRETE, SHALL BE PRESSURE TREATED, UNLESS OTHERWISE NOTED.

4. INSTALL ALL TIES AND CONNECTORS PER THE MANUFACTURER'S RECOMMENDATIONS. METAL TIE AND CONNECTOR DESIGNATIONS INDICATED ON PLANS ARE FOR 'SIMPSON STRONG-TIE' PRODUCTS. PRODUCTS OF EQUIVALENT STRENGTH FROM OTHER MANUFACTURERS MAY BE USED PENDING APPROVAL BY ENGINEER.

5. ALL NAILED CONNECTIONS SHALL BE IN ACCORDANCE WITH NORTH CAROLINA STATE BUILDING CODE TABLE 2304.9.1.5 - SUMMARY OF USE OF FASTENERS FOR FRAMING, UNLESS OTHERWISE NOTED.

6. FRAMING CONNECTIONS THAT ARE BOLTED OR SCREWED, SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.

7. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

REFERENCE DRAWINGS:

1. "NEW FIRE/RESCUE STATION No.2" FOR CITY OF GREENVILLE, BY HITE ASSOCIATES, DATED MAY 20, 1999.

BRICK VENEER LINTEL SCHEDULE

OPENING DIMENSION	ANGLE SIZE	ORIENTATION
0'-0" THRU 4'-0"	L 4 x 4 x 5/16	N/A
4'-1" THRU 6'-0"	L 4 x 4 x 3/8	N/A
6'-1" THRU 8'-0"	L 6 x 4 x 5/16	LLV
8'-1" THRU 10'-0"	L 6 x 4 x 3/8	LLV
10'-1" THRU 12'-0"	L 6 x 6 x 1/2	N/A
–	–	–

NOTES:
1. PROVIDE LOOSE STEEL ANGLE LINTELS FOR ALL BRICK VENEER OPENINGS, PER ABOVE DATA UNLESS OTHERWISE NOTED.
2. PROVIDE MINIMUM OF 8" BEARING FOR ALL LINTELS UNLESS OTHERWISE NOTED.

MASONRY REBAR LAP SPLICE SCHEDULE

BAR SIZE	BASIC LAP SPLICE (Ld) FOR CMU REINFORCING
#3	1'-6"
#4	2'-0"
#5	2'-6"
#6	3'-0"
#7	3'-6"
#8	4'-0"
#9	4'-6"

CONCRETE REBAR LAP SPLICE SCHEDULE

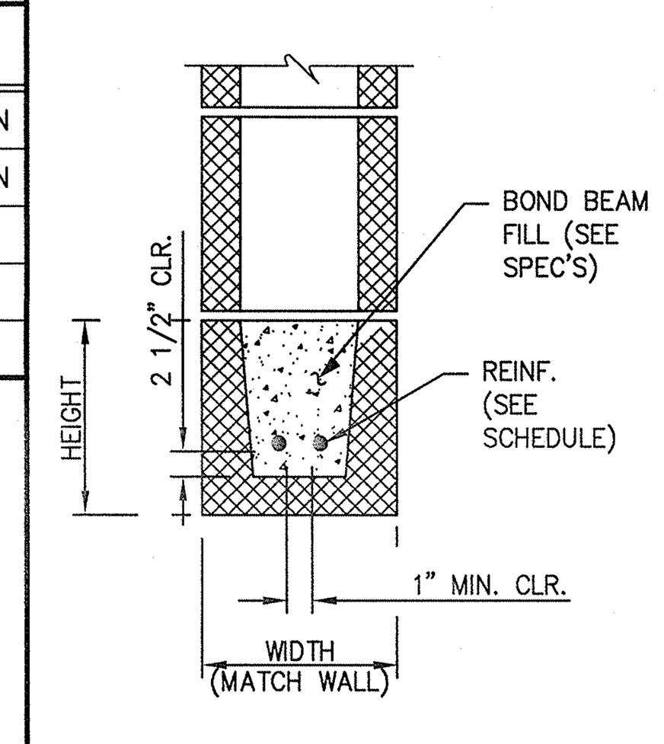
BAR SIZE	LAP LENGTH (in.)	
	fc' = 3000psi	fc' = 4500psi
#4	29"	25"
#5	36"	31"
#6	43"	37"
#7	63"	54"
#8	72"	61"
#9	80"	69"
#10	89"	76"

CLASS B SPLICES ASSUMED

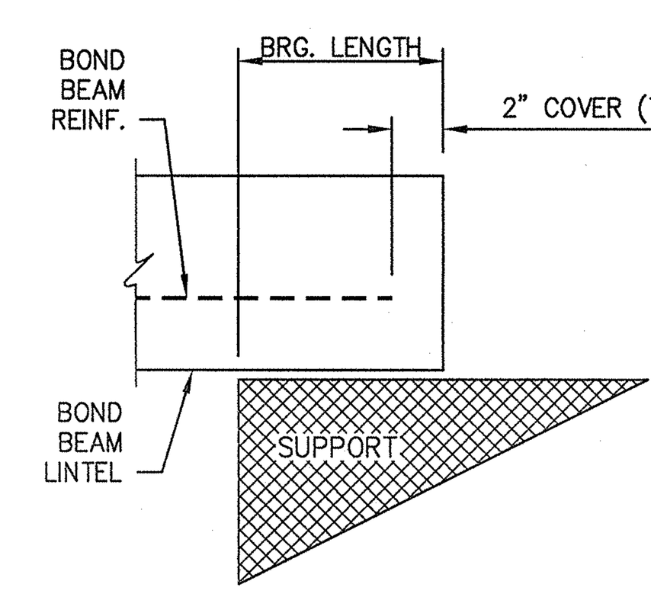
MASONRY LINTEL SCHEDULE

LINTEL MARK	WIDTH	HEIGHT	REINFORCEMENT	REMARKS
CL1	WALL	8"	(2)#5 REINF. BARS	SEE PLAN FOR LOCATION
CL2	WALL	16"	(2)#5 REINF. BARS	SEE PLAN FOR LOCATION

MASONRY LINTEL SCHEDULE NOTES:
1. PROVIDE REINF. BOND BEAM LINTELS FOR ALL CONCRETE MASONRY OPENINGS ACCORDING TO SPAN SCHEDULE BELOW, U.N.O.
   0'< CLR. OP'NG. < 4'-0" — CL1
   4'-1"< CLR. OP'NG. < 6'-0" — CL1
   6'-1"< CLR. OP'NG. < 8'-0" — CL2
   8'-1"< CLR. OP'NG. < 10'-0" — CL2
   W/ 16" BRG. EACH END
2. PROVIDE LOOSE STEEL ANGLE LINTELS FOR ALL BRICK VENEER OPENINGS, ACCORDING TO BRICK VENEER LINTEL SCHEDULE.
3. PROVIDE MINIMUM OF 8" BEARING FOR ALL LINTELS, U.N.O.
4. PROVIDE CL1 LINTEL BELOW ALL WALL OPENINGS U.N.O. (WINDOW SILLS, ETC.)

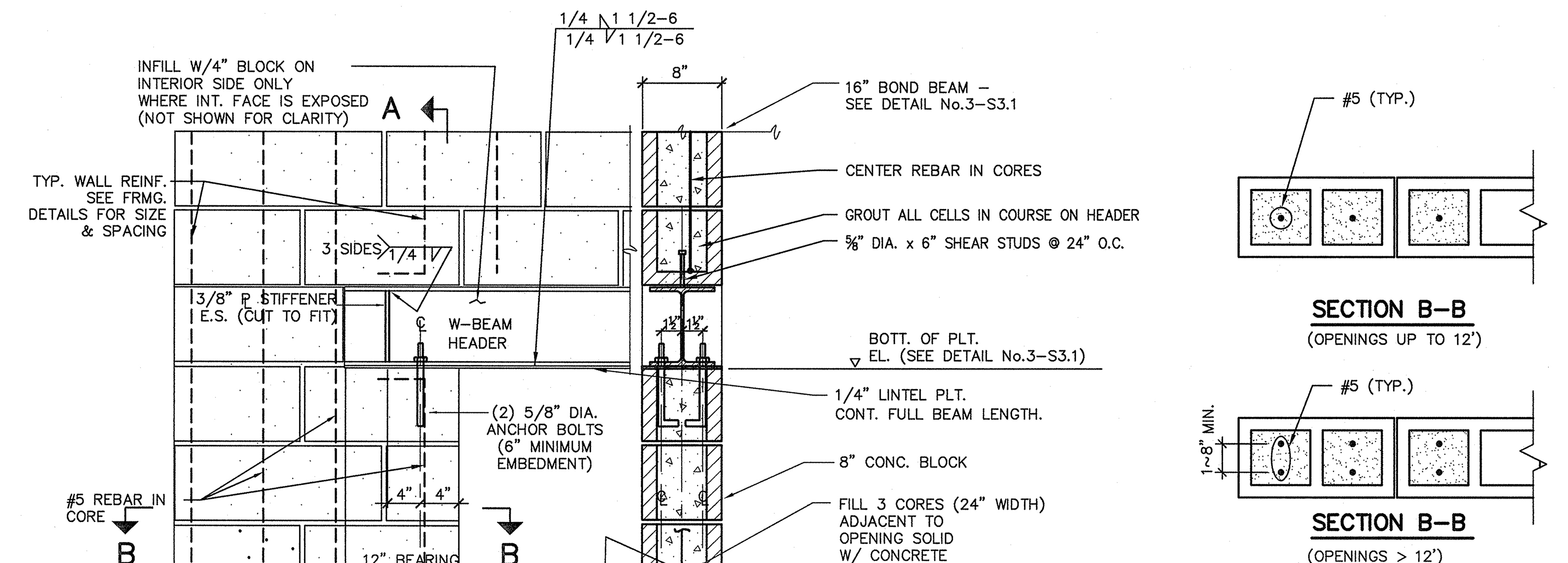


TYPICAL BOND BEAM LINTEL DETAIL
1. SEE ARCH. FOR MASONRY REQ'TS.



TYPICAL BOND BEAM BRG. DETAIL
1. SEE SCHED. FOR BRG. REQ'TS
2. SEE W BEAM HEADER BEARING DETAIL 1-S5.1 FOR TYP. EXT. WALL JAMB.

* VERIFY SIZES WITH ARCHITECTURAL REQUIREMENTS



NOTE:
1. SIM. FOR LINTELS W/BRICK VENEER.
2. SEE ARCH. WALL SECTIONS.
3. REBAR NOT REQ'D FOR INTERIOR LINTELS GROUT CORES SOLID UNDER END BRG.

1 TYPICAL W BEAM HEADER BEARING (MASONRY)
3/4"=1'-0"

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Greenville NORTH CAROLINA

SEAL

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL RICHARD B. ECKERT
10-31-17

REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION	MBW	RBE

TEG PROJECT NO. 20160246

CLIENT PROJECT NO. WORK ORDER NO. 24

PROJECT TITLE: CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE: STRUCTURAL NOTES, SCHEDULES, DETAILS

DRAWING NO. S5.1

Statement of Special Inspections

Project: City of Greenville Fire Station No. 2 Expansion
Location: 2490 Hemby Lane, Greenville,NC
Owner's Representative: Ross Peterson, Building Facilities Coordinator
Owner's Address: City of Greenville, 1500 Beatty Street, Greenville, NC 27834

Architect of Record: Richard E. Johnson, AIA
Structural Engineer of Record: Richard B. Eckert, PE

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection requirements of the 2012 North Carolina State Building Code. It includes a Schedule of Special Inspection Services applicable to this project.

The Special Inspector shall keep records of all inspections and shall furnish inspection reports to the Structural Engineer and Architect of Record. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Structural Engineer and Architect of Record. The Special Inspections program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Owner, Structural Engineer and Architect of Record.

Interim Report Frequency: Monthly

A Final Report of Special Inspections documenting completion of all required Special Inspections and correction of any discrepancies should be submitted prior to issuance of a Certificate of Use and Occupancy.

Job Site safety and means and methods of construction are solely the responsibility of the Contractor.

Statement of Special Inspections Prepared by (Structural Engineer of Record):

Richard B. Eckert, PE
(Type or print name)

Richard B. Eckert 10-31-17
Signature Date

Owner's Authorization

Signature Date

Schedule of Special Inspection Services

The following sheets comprise the required schedule of special inspections for this project. The construction divisions which require special inspections for this project are as follows.

- ☒ Structural Steel
- ☐ Cold-Formed Steel Framing
- ☒ Cast-in-Place Concrete
- ☒ Masonry
- ☒ Wood Construction
- ☒ Soils
- ☐ Special Foundations (Piles or Piers)
- ☒ Wall Panels/Veneer
- ☐ Sprayed Fire Resistant Material
- ☐ Exterior Insulation & Finish System
- ☐ Smoke Control
- ☒ Seismic Requirements
- ☐ Fire Rated Penetrations

Inspection Agents	Qualifications	Address
1. Special Inspector	SI	
2. Structural Engineer of Record	SER	
3. Testing Laboratory	ITL	
4. Other		

Note: The inspection and testing agent shall be engaged by the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested.

Seismic Design Category: C

Basic Wind Speed: 110 mph

Wind Exposure Category: C

Schedule of Special Inspection Services
Structural Steel

Item	Qualifications	Scope
1. Fabricator Certification/Quality Control Procedures	SI	• Ensure fabricator meets requirements of NCSBC 1704.2.2 • Collect Certificate of Compliance from fabricator at completion of fabrication
2. Welding	SI	• Continuous Inspection of welding in accordance with NCSBC Table 1704.3 • Collect certificate of compliance for weld filler material • Identify use of approved filler material and in accordance with AWS D1.1
3. Structural Details	SER / SI	• Periodic inspection of steel framing and joint details
4. Bolting	SI SI SER / SI	• Collect material data sheets for bolts, nuts, and washers • Collect certificate of compliance from bolt supplier • Periodic inspection of bolted connections
5. Material Certification	SI	• Collect Certified mill test reports

Schedule of Special Inspection Services
Cast-in-Place Concrete

Item	Qualifications	Scope
1. Mix Design/Material Certifications	SER / SI	• Collect mix designs and verify appropriate mix use during specific installation
2. Reinforcement Installation	SER / SI SI	• Periodic inspection of reinforcing steel and welded wire fabric • Collection of certified mill test reports
3. Concrete Placement/Monitoring Fresh Concrete, Sampling & prep of test samples	SI SI / ITL SI	• Continuous inspection of cast-in-place concrete placement • Continuous monitoring of sampling of fresh concrete, slump test, air content test, temperature of concrete and creation of strength test specimens • Continuous inspection of bolts to be installed in concrete prior to and during placement
4. Curing & Protection	SI	• Periodic inspections of curing techniques

Schedule of Special Inspection Services
Masonry

Item	Qualifications	Scope
1. Material Certification	SI SI SI	• Collect mix design for mortar • Collect mix design for grout • Certificates of Compliance for masonry constituents
2. Mixing of Mortar & Grout	SI	• Periodic inspection of site prepared mortar
3. Installation of Masonry	SI SER / SI	• Inspection of construction of mortar joints, prior to beginning masonry construction and during construction • Verify size and location of structural elements
4. Reinforcement Installation	SER / SI SER / SI	• Verify location of reinforcement and connections to structure prior to construction • Prior to grouting verify size, grade, and placement of reinforcement and connection of masonry to structural frame
5. Grouting Operations	SI	• Continuous observation of the placement of all grout, conforming cleanliness of grout space placement of the reinforcing connectors.
6. Weather Protection	SI	• Periodically verify protection techniques for construction of masonry below 40ºF and above 90ºF
7. Observation of the Evaluation of Masonry Strength	SI / ITL	• Continuous observation of the preparation of grout specimens, mortar specimens and or prisms.

Schedule of Special Inspection Services
Wood

Item	Qualifications	Scope
1. Inspection of Fabricators	SI SI SER / SI	• Verify quality control procedures for fabrication of wood structural elements • Continuous inspection during field gluing operations. • Periodic inspection for nailing, bolting, anchoring and other fastening of components including struts, braces and hold-downs

Schedule of Special Inspection Services
Soils

Item	Qualifications	Scope
1.Site Preparation	SI	• Determine that site has been prepared in accordance with the approved soils report
2. Fill Placement	SI	• Determine that material used and maximum lift thickness comply with approved soils report
3. Density Evaluation	SI / ITL	• Determine that in-place dry density of the compacted fill complies with approved soils report

Schedule of Special Inspection Services
Wall Panels and Veneers

Item	Qualifications	Scope
1. Anchorage	SI	• Inspect size and location of anchorage of veneer.
2. Material Certification	SI SI SI	• Collect mix design for mortar • Collect mix design for grout • Certificates of Compliance for masonry constituents
3. Mixing of Mortar & Grout	SI / ITL	• Periodic inspection of site prepared mortar
4. Installation of veneer	SI SI / SER	• Inspection of construction of mortar joints, prior to beginning masonry construction and during construction • Verify size and location of structural elements
5. Reinforcement Installation	SI / SER SI / SER	• Verify location of reinforcement and connections to structure prior to construction • Verify size, grade, and placement of reinforcement and connection of masonry to structural frame
6. Weather Protection	SI	• Periodically verify protection techniques for construction of masonry below 40ºF and above 90ºF
7. Observation of the Evaluation of Masonry Strength	SI	• Continuous observation of the preparation of grout specimens, mortar specimens and or prisms.

Schedule of Special Inspection Services
Seismic Requirements

Item	Qualifications	Scope
1. Mechanical and electrical components	SI	• Periodic inspection during the anchorage of electrical equipment used for emergency power systems • Periodic inspection of piping systems intended to carry flammable, combustible, or highly toxic contents and their associated mechanical units. • Periodic inspection of HVAC ductwork that will contain hazardous materials
2. Component and attachment testing	SI	• Periodic inspection of components with importance factor of 1.0 or 1.5 • Verify quality control plan • Inspect each piece of equipments label to ensure permanent identification of quality control program • Collect certificate of compliance for components with importance factor of 1.0 or 1.5
3. Seismic masonry testing	SI	• Verification of f ' m prior to construction • Verification of f ' m every 5000 square feet during construction • Verification of proportions of materials in mortar and grout as delivered to the site
4. Seismic steel reinforcing testing	SI	• Collect certified mill test reports for each shipment of reinforcing steel used to resist flexural, shear and axial forces.

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Greenville NORTH CAROLINA

SEAL

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 25501 RICHARD B. ECKERT
10-31-17

REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION	I	I

TEG PROJECT NO.
20160246

CLIENT PROJECT NO.
WORK ORDER NO. 24

PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
STATEMENT OF SPECIAL INSPECTIONS

DRAWING NO.
S5.2

LEGEND

ALL SYMBOLS AND ABBREVIATIONS ARE NOT NECESSARILY USED ON THIS PROJECT

Symbol	Description
1B	1 HOUR FIRE BARRIER
	2 HOUR FIRE BARRIER
1P	1 HOUR FIRE PARTITION
2HR	2 HOUR FIRE WALL
3HR	3 HOUR FIRE WALL
4HR	4 HOUR FIRE WALL
	1 HOUR FIRE RESISTANT RATED SMOKE BARRIER
	2 HOUR FIRE RESISTANT RATED SMOKE BARRIER
	SMOKE PARTITION (NON-RATED)
	SANITARY DRAIN/WASTE PIPING
	SANITARY VENT PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RETURN PIPING
AV	ACID VENT PIPING
AW	ACID WASTE PIPING
CA	COMPRESSED AIR (NON-MEDICAL) PIPING
DI	DE-IONIZED WATER PIPING
DRN	EQUIPMENT DRAIN PIPING
EV	WASTE ANESTHETIC GAS DISPOSAL (EVACUATION) PIPING
MA	MEDICAL AIR PIPING
MU	EQUIPMENT MAKEUP (NON-POTABLE) WATER PIPING
MV	MEDICAL VACUUM PIPING
N	NITROGEN PIPING
NO	NITROUS OXIDE PIPING
OX	OXYGEN PIPING
RL	ROOF LEADER (STORM DRAIN)
RO	REVERSE OSMOSIS WATER PIPING
SD	STORM DRAIN PIPING
	PIPING CAP, PLUG OR BLIND FLANGE
	FLOW ARROW (INDICATES DIRECTION OF FLOW)
CO-1	CLEANOUT; SEE PLUMBING SPECIALTY SCHEDULE
FCO-1	FLOOR CLEANOUT; SEE PLUMBING SPECIALTY SCHEDULE
FD-1	FLOOR DRAIN; SEE PLUMBING SPECIALTY SCHEDULE
FS-1	FLOOR SINK; SEE PLUMBING SPECIALTY SCHEDULE
GCO-1	GRADE CLEANOUT; SEE PLUMBING SPECIALTY SCHEDULE
PRD-1	PRIMARY ROOF DRAIN; SEE PLUMBING SPECIALTY SCHEDULE
SRD-1	SECONDARY (EMERGENCY) ROOF DRAIN; SEE PLUMBING SPECIALTY SCHEDULE
TD-1	TRENCH DRAIN; SEE PLUMBING SPECIALTY SCHEDULE
WCO-1	WALL CLEANOUT; SEE PLUMBING SPECIALTY SCHEDULE
VTR	VENT THROUGH ROOF
BFP-1	BACKFLOW PREVENTER; SEE PLUMBING SPECIALTY SCHEDULE
HB	HOSE BIBB; WALL-MOUNTED AT 24" AFF/AFG UNO
HY-1	WALL HYDRANT; WALL-MOUNTED AT 24" AFG UNO; SEE PLUMBING SPECIALTY SCHEDULE
MHY-1	MIXING WALL HYDRANT; WALL-MOUNTED AT 24" AFG UNO; SEE PLUMBING SPECIALTY SCHEDULE
F	FLOW METER
P-1	PUMP; SEE PUMP SCHEDULE
	STRAINER WITH BLOWDOWN VALVE
	FILTER
	MOISTURE SEPARATOR
	VACUUM BREAKER OR VACUUM RELIEF VALVE
	PRESSURE GAUGE WITH GAUGE COCK
	THERMOMETER
WHA-X	WATER HAMMER ARRESTER; SEE PLUMBING SPECIALTY SCHEDULE
	FLEXIBLE CONNECTOR
	UNION
AP-1	MEDICAL GAS ALARM PANEL; WALL-MOUNTED AT 60" AFF UNO; SEE PLUMBING SPECIALTY SCHEDULE
ZV-1	MEDICAL GAS ZONE VALVE; WALL-MOUNTED AT 60" AFF UNO; SEE PLUMBING SPECIALTY SCHEDULE
EV-1	WASTE ANESTHETIC GAS DISPOSAL (EVACUATION) INLET; WALL-MOUNTED AT 60" AFF UNO; SEE PLUMBING SPECIALTY SCHEDULE
MA-1	MEDICAL AIR OUTLET; WALL-MOUNTED AT 60" AFF UNO; SEE PLUMBING SPECIALTY SCHEDULE
MV-1	MEDICAL VACUUM INLET; WALL-MOUNTED AT 60" AFF UNO; SEE PLUMBING SPECIALTY SCHEDULE
N-1	NITROGEN OUTLET; WALL-MOUNTED AT 60" AFF UNO; SEE PLUMBING SPECIALTY SCHEDULE
NO-1	NITROUS OXIDE OUTLET; WALL-MOUNTED AT 60" AFF UNO; SEE PLUMBING SPECIALTY SCHEDULE
OX-1	OXYGEN OUTLET; WALL-MOUNTED AT 60" AFF UNO; SEE PLUMBING SPECIALTY SCHEDULE
VS-1	MEDICAL VACUUM SLIDE; WALL-MOUNTED AT 60" AFF UNO; SEE PLUMBING SPECIALTY SCHEDULE
PRV-1	PRESSURE REDUCING VALVE OR PRESSURE REGULATOR; SEE PRESSURE REDUCING VALVE SCHEDULE
	SAFETY VALVE OR RELIEF VALVE
	MOTORIZED VALVE OR SOLENOID VALVE
	BALL VALVE
	BALANCING VALVE
	CHECK VALVE
1 / P1.1	REFERENCE TO ENLARGED PLAN, ELEVATION, SECTION OR DETAIL; TOP SECTION INDICATES ENLARGED PLAN, ELEVATION, SECTION OR DETAIL NUMBER; BOTTOM SECTION INDICATES DRAWING ON WHICH ENLARGED PLAN, ELEVATION, SECTION OR DETAIL APPEARS
#	NOTE NUMBER
	CONNECTION POINT TO EXISTING

Abbreviation	Meaning
ACFM	ACTUAL CUBIC FEET PER MINUTE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AV	ACID VENT
AW	ACID WASTE
CA	COMPRESSED AIR
CU FT	CUBIC FEET
CW	DOMESTIC COLD WATER
DRN	EQUIPMENT DRAIN
DWV	SANITARY DRAIN/WASTE & VENT
ER	EXISTING TO BE RELOCATED
ETR	EXISTING TO REMAIN
EV	WASTE ANESTHETIC GAS DISPOSAL (EVACUATION)
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
°F	DEGREES FAHRENHEIT
FT	FEET
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HZ	HERTZ (ELECTRICAL)
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MA	MEDICAL AIR
MAX	MAXIMUM
MIN	MINIMUM
MU	EQUIPMENT MAKEUP (NON-POTABLE) WATER
MV	MEDICAL VACUUM
N	NITROGEN
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NITROUS OXIDE
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER-FURNISHED CONTRACTOR-INSTALLED
OFOI	OWNER-FURNISHED OWNER-INSTALLED
OX	OXYGEN
PH	PHASE (ELECTRICAL)
PPH	POUNDS PER HOUR
PSIG	POUNDS PER SQUARE INCH (GAUGE)
RO	REVERSE OSMOSIS WATER
RL	ROOF LEADER (STORM DRAIN)
RPM	REVOLUTIONS PER MINUTE
SCFM	STANDARD CUBIC FEET PER MINUTE
SD	STORM DRAIN
SQ FT	SQUARE FEET
TOTO	TURN OVER TO OWNER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	SANITARY VENT
VTR	VENT THROUGH ROOF
W	SANITARY DRAIN/WASTE
WPD	WATER PRESSURE DROP

GENERAL NOTES

1. REFER TO NOTES ON THE "G" SERIES DRAWINGS FOR GENERAL REQUIREMENTS OF THE PROJECT.
2. UNLESS NOTED OTHERWISE, DRAWINGS ARE DIAGRAMMATIC IN NATURE. COORDINATE INSTALLATION OF SYSTEM COMPONENTS WITH ACTUAL FIELD CONDITIONS; THE WORK OF OTHER TRADE CONTRACTORS; AND FOR MAINTENANCE ACCESS. INSTALL COMPONENTS SO THAT THEY DO NOT BLOCK ACCESS TO OTHER SYSTEM COMPONENTS REQUIRING MAINTENANCE. GIVE PRIORITY TO SYSTEMS THAT REQUIRE A SPECIFIED SLOPE.
3. EXAMINE THE PROJECT SITE PRIOR TO SUBMITTING BIDS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND THE EXTENT AND NATURE OF WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR FAILURE TO THOROUGHLY EXAMINE EXISTING CONDITIONS TO DETERMINE THE EXACT SCOPE OF THIS PROJECT; INCLUDING DEMOLITION WORK.
4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EQUIPMENT, MATERIALS, AND LABOR AS REQUIRED FOR THE COMPLETE PROJECT UNLESS CERTAIN PORTIONS OF THE WORK ARE SPECIFICALLY IDENTIFIED AS "BY OTHERS", "BY OWNER", "NOT IN CONTRACT", OR SIMILAR WORDING.
5. CONTRACTOR IS RESPONSIBLE FOR CUTTING, CORE DRILLING, PATCHING, ETC. FOR PROPER EXECUTION AND COMPLETION OF THE WORK. WHEN CUTTING OR CORE DRILLING THROUGH EXISTING BUILDING ASSEMBLIES, CONTRACTOR SHALL VERIFY LOCATION OF ALL STRUCTURAL ELEMENTS PRIOR TO CUTTING OR CORE DRILLING. PATCH BUILDING ASSEMBLIES TO MATCH EXISTING ADJACENT FINISHES UNLESS NOTED OTHERWISE.
6. SEAL ALL PIPING AND/OR CONDUIT PENETRATIONS THROUGH FIRE RATED ASSEMBLIES (WALLS, PARTITIONS, FLOORS, ETC.) IN ACCORDANCE WITH THE UL LISTED SYSTEMS SHOWN ON THE "G" SERIES DRAWINGS.
7. SEAL ALL PIPING AND/OR CONDUIT PENETRATIONS THROUGH NON-RATED ASSEMBLIES (WALLS, PARTITIONS, FLOORS, ETC.) WITH MATERIALS CONSISTENT WITH THE ASSEMBLY CONSTRUCTION (GYPSUM WALLBOARD, JOINT COMPOUND, MORTAR, GROUT, CAULK, ETC.).
8. COORDINATE ALL WORK WITH THE OWNER. WORK ABOVE, BELOW, NEAR, OR INSIDE OCCUPIED AREAS MAY HAVE TO BE PERFORMED DURING OFF-HOURS (NIGHTS AND WEEKENDS). SCHEDULE ALL OFF-HOURS WORK IN ADVANCE WITH THE OWNER. INCLUDE OVERTIME LABOR FOR OFF-HOURS WORK IN THE BASE BID. WHEN WORKING INSIDE OCCUPIED AREAS, COVER AND PROTECT ALL FURNITURE, EQUIPMENT, ETC. WITH FIRE-RETARDANT PLASTIC SHEETING. THOROUGHLY CLEAN THE PROJECT AREA AFTER WORK IS COMPLETED.
9. COORDINATE INSTALLATION OF CEILING MOUNTED DEVICES. WHEN INSTALLED IN LAY-IN CEILINGS, DEVICES SHALL BE CENTERED WITHIN CEILING TILES. WHEN INSTALLED IN GYPSUM BOARD CEILINGS, DEVICES SHALL BE COORDINATED AND ALIGNED WITH THE WORK OF OTHER TRADE CONTRACTORS.
10. COORDINATE INSTALLATION OF WORK ABOVE EXISTING CEILINGS THAT ARE NOT INDICATED TO BE REMOVED AS PART OF THIS PROJECT. REMOVE, STORE, AND REINSTALL EXISTING LAY-IN CEILING TILES AND/OR GRID; AND/OR CUT AND PATCH EXISTING GYPSUM BOARD CEILINGS AS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
11. COORDINATE AND SCHEDULE ALL SHUTDOWNS OF EXISTING UTILITIES TWO WEEKS IN ADVANCE WITH THE OWNER. ALL OR SOME OF THIS WORK MAY HAVE TO BE PERFORMED DURING OFF-HOURS (NIGHTS AND WEEKENDS). INCLUDE OVERTIME LABOR FOR OFF-HOURS WORK IN THE BASE BID.
12. EXISTING AREAS OF THE FACILITY (WHETHER INSIDE OR OUTSIDE OF THE PROJECT LIMITS) DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
13. EXISTING SYSTEM COMPONENTS INDICATED ON THE DRAWINGS ARE BASED ON CURSORY FIELD INVESTIGATIONS AND EXISTING DRAWINGS, AND MAY OR MAY NOT BE LOCATED OR LABELED CORRECTLY. EXAMINE ALL AREAS OF THE PROJECT AND FIELD IDENTIFY / VERIFY ALL SYSTEM COMPONENTS PRIOR TO COMMENCING DEMOLITION OR NEW CONSTRUCTION. IDENTIFICATION AND VERIFICATION SHALL INCLUDE TRACING EACH SYSTEM COMPONENT TO DETERMINE ITS EXACT ORIGIN AND THE AREA OR EQUIPMENT THE SYSTEM COMPONENT SERVES. REPORT TO THE ARCHITECT AND/OR ENGINEER ALL SUCH DISCOVERIES OF SYSTEM COMPONENTS THAT ARE UNIDENTIFIED OR ARE FOUND TO BE IN A DIFFERENT LOCATION FROM THAT INDICATED.
14. UNLESS NOTED OTHERWISE, DEMOLISH AND REMOVE ALL SYSTEM COMPONENTS INDICATED ON THE DEMOLITION DRAWINGS. UNLESS NOTED OTHERWISE, ALL SYSTEM COMPONENTS SHALL BE REMOVED BACK TO THE SOURCE AND CAPPED APPROPRIATELY.
15. DEMOLITION WORK SHALL BE PERFORMED WITH DUE CARE AND DILIGENCE. TAKE ALL NECESSARY MEASURES TO PREVENT THE ARBITRARY INTERRUPTION OR DESTRUCTION OF CONCEALED SYSTEM COMPONENTS THAT ARE TO REMAIN OPERATIONAL, AND THE ROUTING OF WHICH COULD NOT BE PREDETERMINED UNTIL THE COMMENCEMENT OF DEMOLITION WORK.
16. EXISTING SYSTEM COMPONENTS INDICATED TO BE RELOCATED AND/OR REUSED SHALL BE INSPECTED FOR PROPER OPERATION, THOROUGHLY CLEANED, AND PREPARED FOR REINSTALLATION.
17. THE OWNER HAS THE RIGHT OF FIRST REFUSAL ON ALL SYSTEM COMPONENTS REMOVED DURING DEMOLITION. SYSTEM COMPONENTS NOT DESIRED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE.
18. SYSTEM COMPONENTS SERVING AREAS OF THE PROJECT OCCUPIED BY THE OWNER DURING CONSTRUCTION SHALL BE MAINTAINED UNTIL THE OWNER VACATES THE AREA.
19. ALL AFF/AFG DIMENSIONS ARE REFERENCED TO THE CENTER OF THE EQUIPMENT OR DEVICE UNLESS NOTED OTHERWISE.

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NORTH CAROLINA PROFESSIONAL ENGINEER ... W. PETERSON 10/26/17

REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION	DCM	DWP

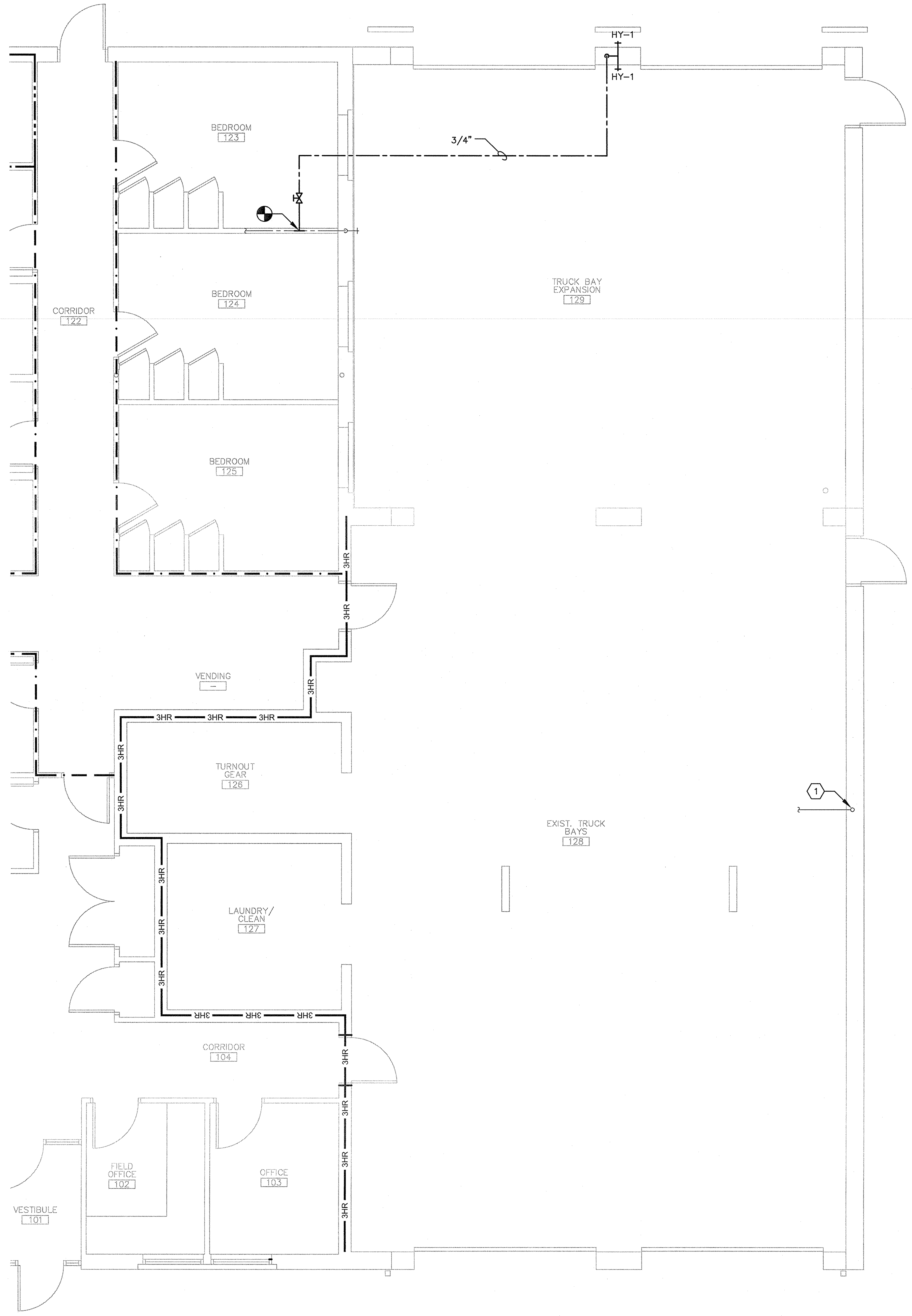
TEG PROJECT NO. 20160246

CLIENT PROJECT NO. WORK ORDER NO. 24

PROJECT TITLE: CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE: PLUMBING LEGEND & GENERAL NOTES

DRAWING NO. P0.1



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

PLUMBING SPECIALTY SCHEDULE				
SYMBOL	SPECIALTY TYPE	DESCRIPTION	MANUFACTURER & MODEL NO. *	REMARKS
HY-1	WALL HYDRANT	ANTI-SIPHON; AUTOMATIC DRAINING; NON-FREEZE	ZURN Z1345	–

* SEE SPECIFICATIONS FOR OTHER ACCEPTABLE MANUFACTURERS.

Keyed Notes

1. EXTEND EXISTING 2" VENT THROUGH NEW ROOF.

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REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION	DCM	DWP

TEG PROJECT NO.: 20160246
CLIENT PROJECT NO.: WORK ORDER NO. 24
PROJECT TITLE: CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT
DRAWING TITLE: RENOVATION PLAN
DRAWING NO.: **P2.1**

MECHANICAL SYMBOLS AND ABBREVIATIONS

- PIPE TURNING UP
- PIPE TURNING DOWN
- TEE DOWN
- TEE UP
- 45? OFFSET
- DIRECTION OF FLOW IN PIPE
- PIPE SLOPED UP IN DIRECTION OF ARROW
- PIPE CAP
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- PIPE UNION
- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- TRIPLE–DUTY VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- BALL VALVE
- FLEXIBLE CONNECTION
- MOTORIZED VALVE
- SOLENOID VALVE
- CONTROL VALVE (2–WAY)
- CONTROL VALVE (3–WAY)
- PRESSURE REDUCING VALVE
- SAFETY RELIEF VALVE
- CALIBRATED FLOW BALANCING VALVE
- FLOW METER
- FS — FLOW SENSOR/SWITCH
- SD — SUCTION DIFFUSER
- BACKFLOW PREVENTER ASSEMBLY
- Y–TYPE STRAINER
- BASKET STRAINER
- PRESSURE GAUGE (W/?" BALL VALVE)
- STEAM PRESSURE GAUGE (W/?" BALL VALVE AND PIGTAIL SIPHON)
- THERMOMETER
- TEMPERATURE SENSOR
- P/T PLUG
- STEAM TRAP
- EXPANSION COMPENSATOR
- ALIGNMENT GUIDE
- PIPE ANCHOR
- FLEXIBLE PIPE CONNECTION
- EXPANSION LOOP WITH GUIDES
- PUMP
- CLPS — CLEAN LOW PRESSURE STEAM
- LPS — LOW PRESSURE STEAM
- HPS — HIGH PRESSURE STEAM
- PC — PUMPED CONDENSATE
- LPC — LOW PRESSURE CONDENSATE
- HPC — HIGH PRESSURE CONDENSATE
- CD — CONDENSATE DRAIN
- D — DRAIN
- SRV — SAFETY RELIEF VENT
- BBD — BOILER BLOWDOWN
- BFW — BOILER FEED WATER
- HWS — HEATING WATER SUPPLY
- HWR — HEATING WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- CWS — CONDENSER WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- FOS — FUEL OIL SUPPLY
- FOR — FUEL OIL RETURN
- FOV — FUEL OIL VENT
- G — NATURAL GAS
- GV — NATURAL GAS VENT
- LPG — LIQUID PETROLEUM GAS
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- SUPPLY OR OUTSIDE AIR DUCT SECTION
- RETURN OR EXHAUST DUCT SECTION
- 12x6 — SHEET METAL DUCT DIMENSIONS, (INCHES) FIRST DIMENSION IS SIDE SHOWN
- DIRECTION OF FLOW IN DUCT
- TRANSITION
- R — DUCT SLOPED UP IN DIRECTION OF ARROW
- SPIN–IN FITTING AND SEPARATE VOLUME DAMPER WITH LOCKING QUADRANT
- DUCT ACCESS PANEL
- SIDEWALL SUPPLY GRILLE OR REGISTER
- SIDEWALL RETURN OR EXHAUST GRILLE OR REGISTER
- ROUND SUPPLY DIFFUSER
- SQUARE SUPPLY DIFFUSER
- EXHAUST OR RETURN GRILLE OR REGISTER
- SQUARE ELBOW WITH MULTIPLE TURNING VANES
- ROUND ELBOW, R = 1? D
- DUCT TURNING UP
- DUCT TURNING DOWN
- FLEXIBLE CONNECTION
- TRANSFER OPENING IN WALL ABOVE CEILING (SIZE SHOWN ON PLANS)
- FLEXIBLE DUCT
- VD — VOLUME DAMPER WITH MANUAL OPERATOR
- M — CONTROL DAMPER WITH MOTOR OPERATOR
- FD — FIRE DAMPER
- SD — SMOKE DAMPER
- S/FD — COMBINATION FIRE AND SMOKE DAMPER
- BD — BACKDRAFT DAMPER (ARROW INDICATES DIRECTION OF FLOW)
- SD — DUCT MOUNTED SMOKE DETECTOR
- HD — DUCT MOUNTED HEAT DETECTOR
- DUCT MOUNTED STEAM HUMIDIFIER
- AFCV–1 — AIR FLOW CONTROL VALVE
- HWC–1 — DUCT MOUNTED HOT WATER COIL
- VARIABLE OR CONSTANT VOLUME TERMINAL UNIT WITH REHEAT
- VARIABLE OR CONSTANT VOLUME TERMINAL UNIT WITHOUT REHEAT
- ESS — EMERGENCY STOP SWITCH FOR AIR HANDLING UNIT
- 100 — DIFFUSER, REGISTER, OR GRILLE SYMBOL–NUMBER INDICATES CFM
- T — THERMOSTAT–MOUNT ? AT 48" AFF
- H — HUMIDISTAT–MOUNT ? AT 48" AFF
- 50 — DIRECTION AND QUANTITY OF AIR FLOW UNDER DOOR (CFM)

?	CENTER LINE
§	PLATE
?	ANGLE
?	ROUND, DIAMETER OR PHASE
#	POUNDS OR NUMBER
A	COMPRESSED AIR
ABV.CLG.	ABOVE CEILING
ACCU	AIR COOLED CONDENSING UNIT
ACFM	ACTUAL CUBIC FEET PER MINUTE
ACU	AIR CONDITIONING UNIT
AC/HR	AIR CHANGES PER HOUR
A.D.	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFMS	AIRFLOW MONITORING STATION
AHU	AIR HANDLING UNIT
ALUM.	ALUMINUM
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AUTO	AUTOMATIC
BBD	BOILER BLOWDOWN
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BFW	BOILER FEED WATER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C/C	CENTER TO CENTER
CD	CONDENSATE DRAIN
CF	CHEMICAL FEED
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG.	CEILING
CLPS	CLEAN LOW PRESSURE STEAM
C.O.	CLEAN OUT
CONC.	CONCRETE
CONN.	CONNECTION
CON'T.	CONTINUATION
CONST.	CONSTRUCTION
CONTR.	CONTRACTOR
COORD.	COORDINATE
COP	COEFFICIENT OF PERFORMANCE
CTR	CENTER
CU	COPPER
CU.FT.	CUBIC FOOT
CW	COLD WATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CU.YD.	CUBIC YARD
DB	DRY BULB
DG	DOOR GRILLE
DH	DUCT HEATER
D.I.	DUCTILE IRON
DHW	DOMESTIC HOT WATER
DIA.	DIAMETER
DN.	DOWN
DD	DUCT MOUNTED SMOKE DETECTOR
D.P.	DIFFERENTIAL PRESSURE
DPR	DAMPER
DWG.	DRAWING
D.W.V.	DRAIN, WASTE AND VENT
DX	DIRECT EXPANSION
EA	EXHAUST AIR
E.A.T.	ENTERING AIR TEMPERATURE
E.C.	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EF	EXHAUST FAN
EFF	EFFICIENCY
EH	ELECTRIC HEATER
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC.	ELECTRICAL
EQUIP.	EQUIPMENT
EQ.	EQUAL
EQUIV.	EQUIVALENT
ER	EXHAUST REGISTER
E.S.P.	EXTERNAL STATIC PRESSURE
E.W.T.	ENTERING WATER TEMPERATURE
EXH.	EXHAUST
EXIST.	EXISTING
F	FAHRENHEIT
FACP	FIRE ALARM CONTROL PANEL
FC	FLOW CONTROLLER
FCU	FAN COIL UNIT
FCV	FLOW CONTROL VALVE
FD	FIRE DAMPER
FE	FLOW ELEMENT
FL	FLOOR
FLEX	FLEXIBLE
FLG	FLANGE
FO	FLAT OVAL
FOB	FLAT ON BOTTOM
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOSA	FLAT OVAL SUPPLY AIR
FOT	FLAT ON TOP
FOV	FUEL OIL VENT
FP	FIRE PROTECTION
F.P.C.	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH/SENSOR
F&T	FLOAT & THERMOSTATIC
FT	FLOW TRANSMITTER
FTG.	FOOTING
FV	FLOW VALVE
G	NATURAL GAS
GA.	GAGE
GAL.	GALLONS
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	NATURAL GAS VENT
HC	HUMIDITY CONTROLLER
HD	HEAT DETECTOR
HGR.	HANGER
HOA	HAND–OFF–AUTOMATIC
HORZ.	HORIZONTAL
HP	HIGH PRESSURE OR HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HR	HOUR
HS	HUMIDITY SENSOR
H'STAT	HUMIDISTAT
HT	HUMIDITY TRANSMITTER
HTG.	HEATING
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
IA	INSTRUMENT AIR
I.B.	INVERTED BUCKET
I.D.	INSIDE DIAMETER
IN.	INCH
INSUL.	INSULATED
INV.	INVERT
KW	KILOWATT
L.A.T.	LEAVING AIR TEMPERATURE
LB/HR	POUNDS PER HOUR
LCD	LINEAR CEILING DIFFUSER
LSH/L	LEVEL SWITCH HIGH/LOW
LV	LEVEL VALVE
L.W.T.	LEAVING WATER TEMPERATURE
L.P.	LOW PRESSURE
MA	MEDICAL AIR
LPC	LOW PRESSURE CONDENSATE
LPG	LIQUID PETROLEUM GAS
LPS	LOW PRESSURE STEAM
MAX.	MAXIMUM
MBH	BTUH x 1000
MECH.	MECHANICAL
MEZZ	MEZZANINE
MFG.	MANUFACTURING
MFR.	MANUFACTURER
M.H.	MANHOLE
MIN.	MINIMUM
MJ	MECHANICAL JOINT
MOD	MOTOR OPERATED DAMPER
MTD	MOUNTED
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
N.I.C.	NOT IN CONTRACT
NO	NORMALLY OPEN
NO.	NUMBER
NPSH	NET POSITIVE SUCTION HEAD
N.R.S.	NON RISING STEM
N.T.S.	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPNG	OPENING
O.S.&Y.	OUTSIDE SCREW AND YOKE
P	PUMP
PBD	PARALLEL BLADE DAMPER
PC	PUMPED CONDENSATE
P.C.	PLUMBING CONTRACTOR
PDT	PRESSURE DIFFERENTIAL TRANSMITTER
PLBG.	PLUMBING
PPH	POUNDS PER HOUR
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH/SENSOR
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PRESSURE TRANSMITTER
PVC	POLYVINYL CHLORIDE
QTY.	QUANTITY
RA	RETURN AIR
RD.	ROUND
R.C.P	REINFORCED CONCRETE PIPE
RECIRC.	RECIRCULATING
REINF.	REINFORCING
REQ'D	REQUIRED
REV.	REVISION
RF	RETURN FAN
RM.	ROOM
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
RL	REFRIGERANT LIQUID
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RS	REFRIGERANT SUCTION
R.S.	RISING STEM
SA	SUPPLY AIR
SC	SPEED CONTROLLER
SCFM	STANDARD CUBIC FEET PER MINUTE
SCH.	SCHEDULE
SD	SMOKE DAMPER
SECT.	SECTION
SF	SUPPLY FAN
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
S.P.	STATIC PRESSURE
SPEC.	SPECIFICATION
SPR	SPRINKLER
SQ.	SQUARE
STA.	STATION
STL	STEEL
STM	STEAM
STRUCT.	STRUCTURAL
SYM	SYMBOL OR SYMMETRICAL
SYS.	SYSTEM
T & B	TOP AND BOTTOM
TAB	TEST AND BALANCE
TBD	TO BE DETERMINED
TC	TEMPERATURE CONTROLLER
T.O.C.	TOP OF CURB
T.O.D.	TOP OF DUCT
T.O.P.	TOP OF PIPE
T.O.S.	TOP OF STEEL
TS	TEMPERATURE SENSOR
T'STAT	THERMOSTAT
TT	TEMPERATURE TRANSMITTER
TU	TERMINAL UNIT
TV	TEMPERATURE VALVE
TYP.	TYPICAL
U.F.	UNDER FLOOR
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
U.N.O.	UNLESS NOTED OTHERWISE
V	VENT
VD	MANUAL VOLUME DAMPER
VERT.	VERTICAL
VLV.	VALVE
VOL.	VOLUME
VS	VARIABLE SPEED
VSD	VARIABLE SPEED DRIVE
VTR	VENT THRU ROOF
W/	WITH
W/O	WITHOUT
WB	WET BULB
WG	WATER GAUGE

GENERAL SYMBOLS

- PLAN NUMBER
- ELEVATION NUMBER SHOWN ON SHEET NUMBER
- SECTION NUMBER SHOWN ON SHEET NUMBER
- DIMENSION LINE
- A — EXISTING COLUMN NUMBER OR LETTER
- A1 — NEW COLUMN NUMBER OR LETTER
- 1 — KEYED NOTE NUMBER
- CPR–# — CHANGE PROPOSAL REQUEST (REVISION)
- ADD–# — ADDENDUM (REVISION)
- CONNECT TO EXISTING
- REMOVE TO THIS POINT
- EXISTING TO BE REMOVED OR RELOCATED
- EXISTING TO REMAIN (LIGHT LINE TYPE)
- NEW OR RELOCATED WORK (HEAVY LINE TYPE)

RATED WALLS

- NON–RATED SMOKE PARTITION SEAL ALL PENETRATIONS
- 1–HOUR RATED FIRE BARRIER SEAL ALL PENETRATIONS
- 1–HOUR RATED FIRE PARTITION SEAL ALL PENETRATIONS
- 1–HOUR RATED SMOKE BARRIER SEAL ALL PENETRATIONS
- 1–HOUR RATED FIRE BARRIER AND SMOKE BARRIER COMBINATION SEAL ALL PENETRATIONS
- 2–HOUR RATED FIRE BARRIER SEAL ALL PENETRATIONS
- 2–HOUR RATED FIRE BARRIER AND SMOKE BARRIER COMBINATION SEAL ALL PENETRATIONS
- 2–HOUR FIRE WALL SEAL ALL PENETRATIONS
- 3–HOUR FIRE WALL SEAL ALL PENETRATIONS
- 4–HOUR FIRE WALL SEAL ALL PENETRATIONS

CONTROL SYMBOLS

- FT — FUNCTION I.D.
- PNEUMATIC ANALOG SIGNAL
- PNEUMATIC BINARY SIGNAL
- ELECTRIC ANALOG SIGNAL
- ELECTRIC BINARY SIGNAL
- AI — ANALOG INPUT
- AO — ANALOG OUTPUT
- BI — BINARY INPUT
- BO — BINARY OUTPUT
- E/P — ELECTRIC TO PNEUMATIC SIGNAL CONVERTER
- RESTRICTOR
- PNEUMATIC ACTUATOR

CONTROL ABBREVIATIONS

BAS	BUILDING AUTOMATION SYSTEM
FC	FLOW CONTROLLER
FCV	FLOW CONTROL VALVE
FE	FLOW ELEMENT
FI	FLOW INDICATOR
FS	FLOW SENSOR
FT	FLOW TRANSMITTER
FV	FLOW VALVE
HC	HUMIDITY CONTROLLER
HS	HUMIDITY SENSOR
HT	HUMIDITY TRANSMITTER
LS	LIMIT SWITCH
LSH/L	LEVEL SWITCH HIGH/LOW
LV	LEVEL VALVE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
PDT	PRESSURE DIFFERENTIAL TRANSMITTER
PS	PRESSURE SENSOR
PT	PRESSURE TRANSMITTER
SC	SPEED CONTROLLER
TC	TEMPERATURE CONTROLLER
TS	TEMPERATURE SENSOR
TT	TEMPERATURE TRANSMITTER
TV	TEMPERATURE VALVE
VS	VIBRATION SWITCH
XS	AUXILIARY DEVICE

GENERAL NOTES

1. REFER TO NOTES ON THE 'G' SERIES DRAWINGS FOR GENERAL REQUIREMENTS OF THE PROJECT.
2. UNLESS NOTED OTHERWISE, DRAWINGS ARE DIAGRAMMATIC IN NATURE. COORDINATE INSTALLATION OF SYSTEM COMPONENTS WITH ACTUAL FIELD CONDITIONS; THE WORK OF OTHER TRADE CONTRACTORS; AND FOR MAINTENANCE ACCESS. INSTALL COMPONENTS SO THAT THEY DO NOT BLOCK ACCESS TO OTHER SYSTEM COMPONENTS REQUIRING MAINTENANCE. GIVE PRIORITY TO SYSTEMS THAT REQUIRE A SPECIFIED SLOPE.
3. EXAMINE THE PROJECT SITE PRIOR TO SUBMITTING BIDS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND THE EXTENT AND NATURE OF WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR FAILURE TO THOROUGHLY EXAMINE EXISTING CONDITIONS TO DETERMINE THE EXACT SCOPE OF THIS PROJECT; INCLUDING DEMOLITION WORK.
4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EQUIPMENT, MATERIALS, AND LABOR AS REQUIRED FOR THE COMPLETE PROJECT UNLESS CERTAIN PORTIONS OF THE WORK ARE SPECIFICALLY IDENTIFIED AS 'BY OTHERS', 'BY OWNER', 'NOT IN CONTRACT', OR SIMILAR WORDING.
5. CONTRACTOR IS RESPONSIBLE FOR CUTTING, CORE DRILLING, PATCHING, ETC. FOR PROPER EXECUTION AND COMPLETION OF THE WORK. WHEN CUTTING OR CORE DRILLING THROUGH EXISTING BUILDING ASSEMBLIES, CONTRACTOR SHALL VERIFY LOCATION OF ALL STRUCTURAL ELEMENTS PRIOR TO CUTTING OR CORE DRILLING. PATCH BUILDING ASSEMBLIES TO MATCH EXISTING ADJACENT FINISHES UNLESS NOTED OTHERWISE.
6. SEAL ALL PIPING AND/OR CONDUIT PENETRATIONS THROUGH FIRE RATED ASSEMBLIES (WALLS, PARTITIONS, FLOORS, ETC.) IN ACCORDANCE WITH THE UL LISTED SYSTEMS SHOWN ON THE 'G' SERIES DRAWINGS.
7. SEAL ALL PIPING AND/OR CONDUIT PENETRATIONS THROUGH NON–RATED ASSEMBLIES (WALLS, PARTITIONS, FLOORS, ETC.) WITH MATERIALS CONSISTENT WITH THE ASSEMBLY CONSTRUCTION (GYPSUM WALLBOARD, JOINT COMPOUND, MORTAR, GROUT, CAULK, ETC.).
8. COORDINATE ALL WORK WITH THE OWNER. WORK ABOVE, BELOW, NEAR, OR INSIDE OCCUPIED AREAS MAY HAVE TO BE PERFORMED DURING OFF–HOURS (NIGHTS AND WEEKENDS). SCHEDULE ALL OFF–HOURS WORK IN ADVANCE WITH THE OWNER. INCLUDE OVERTIME LABOR FOR OFF–HOURS WORK IN THE BASE BID. WHEN WORKING INSIDE OCCUPIED AREAS, COVER AND PROTECT ALL FURNITURE, EQUIPMENT, ETC. WITH FIRE–RETARDANT PLASTIC SHEETING. THOROUGHLY CLEAN THE PROJECT AREA AFTER WORK IS COMPLETED.
9. COORDINATE INSTALLATION OF CEILING MOUNTED DEVICES. WHEN INSTALLED IN LAY–IN CEILINGS, DEVICES SHALL BE CENTERED WITHIN CEILING TILES. WHEN INSTALLED IN GYPSUM BOARD CEILINGS, DEVICES SHALL BE COORDINATED AND ALIGNED WITH THE WORK OF OTHER TRADE CONTRACTORS.
10. COORDINATE INSTALLATION OF WORK ABOVE EXISTING CEILINGS THAT ARE NOT INDICATED TO BE REMOVED AS PART OF THIS PROJECT. REMOVE, STORE, AND REINSTALL EXISTING LAY–IN CEILING TILES AND/OR GRID; AND/OR CUT AND PATCH EXISTING GYPSUM BOARD CEILINGS AS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
11. COORDINATE AND SCHEDULE ALL SHUTDOWNS OF EXISTING UTILITIES TWO WEEKS IN ADVANCE WITH THE OWNER. ALL OR SOME OF THIS WORK MAY HAVE TO BE PERFORMED DURING OFF–HOURS (NIGHTS AND WEEKENDS). INCLUDE OVERTIME LABOR FOR OFF–HOURS WORK IN THE BASE BID.
12. EXISTING AREAS OF THE FACILITY (WHETHER INSIDE OR OUTSIDE OF THE PROJECT LIMITS) DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
13. EXISTING SYSTEM COMPONENTS INDICATED ON THE DRAWINGS ARE BASED ON CURSORY FIELD INVESTIGATIONS AND EXISTING DRAWINGS, AND MAY OR MAY NOT BE LOCATED OR LABELED CORRECTLY. EXAMINE ALL AREAS OF THE PROJECT AND FIELD IDENTIFY / VERIFY ALL SYSTEM COMPONENTS PRIOR TO COMMENCING DEMOLITION OR NEW CONSTRUCTION. IDENTIFICATION AND VERIFICATION SHALL INCLUDE TRACING EACH SYSTEM COMPONENT TO DETERMINE ITS EXACT ORIGIN AND THE AREA OR EQUIPMENT THE SYSTEM COMPONENT SERVES. REPORT TO THE ARCHITECT AND/OR ENGINEER ALL SUCH DISCOVERIES OF SYSTEM COMPONENTS THAT ARE UNIDENTIFIED OR ARE FOUND TO BE IN A DIFFERENT LOCATION FROM THAT INDICATED.
14. UNLESS NOTED OTHERWISE, DEMOLISH AND REMOVE ALL SYSTEM COMPONENTS INDICATED ON THE DEMOLITION DRAWINGS. UNLESS NOTED OTHERWISE, ALL SYSTEM COMPONENTS SHALL BE REMOVED BACK TO THE SOURCE AND CAPPED APPROPRIATELY.
15. DEMOLITION WORK SHALL BE PERFORMED WITH DUE CARE AND DILIGENCE. TAKE ALL NECESSARY MEASURES TO PREVENT THE ARBITRARY INTERRUPTION OR DESTRUCTION OF CONCEALED SYSTEM COMPONENTS THAT ARE TO REMAIN OPERATIONAL, AND THE ROUTING OF WHICH COULD NOT BE PREDETERMINED UNTIL THE COMMENCEMENT OF DEMOLITION WORK.
16. EXISTING SYSTEM COMPONENTS INDICATED TO BE RELOCATED AND/OR REUSED SHALL BE INSPECTED FOR PROPER OPERATION, THOROUGHLY CLEANED, AND PREPARED FOR REINSTALLATION.
17. THE OWNER HAS THE RIGHT OF FIRST REFUSAL ON ALL SYSTEM COMPONENTS REMOVED DURING DEMOLITION. SYSTEM COMPONENTS NOT DESIRED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE.
18. SYSTEM COMPONENTS SERVING AREAS OF THE PROJECT OCCUPIED BY THE OWNER DURING CONSTRUCTION SHALL BE MAINTAINED UNTIL THE OWNER VACATES THE AREA.
19. ALL AFF/AFG DIMENSIONS ARE REFERENCED TO THE CENTER OF THE EQUIPMENT OR DEVICE UNLESS NOTED OTHERWISE.
20. HVAC DESIGN IS IN ACCORDANCE WITH ASHRAE STANDARD 170–2013, VENTILATION OF HEATLH CARE FACILITIES.
21. DUCTWORK AND PIPING LOCATIONS SHOWN ARE DIAGRAMMATIC. ACTUAL LOCATIONS MAY VARY DEPENDING ON SPACE REQUIREMENTS. COORDINATE DUCTWORK AND PIPING INSTALLATIONS WITH OTHER TRADES AND ADJUST LOCATIONS AS NECESSARY. PROVIDE ADDITIONAL OFFSETS AND FITTINGS IF/AS REQUIRED.
22. MINIMUM SIZE OF FIRE, SMOKE, AND COMBINATION FIRE/SMOKE DAMPERS IS 14–INCHES SQUARE. FOR DAMPERS INSTALLED IN DUCTS SMALLER THAN 14–INCHES, PROVIDE FIELD FABRICATED DUCT TRANSITIONS ON EACH SIDE OF WALL OR FLOOR AS NECESSARY TO INCREASE DUCT SIZE TO ACCOMMODATE THE MINIMUM DAMPER SIZE AND ITS ASSOCIATED DUCT ACCESS DOORS. ROUND TRANSITION COLLARS FURNISHED WITH THE DAMPERS ARE NOT ACCEPTABLE.
23. UNLESS NOTED OTHERWISE, FLEXIBLE DUCT RUNOUTS TO TERMINAL UNITS AND AIR DISTRIBUTION DEVICES SHALL BE THE SAME SIZE AS THE NECK OF THE DEVICE SERVED. SEE EQUIPMENT SCHEDULES FOR SIZES.
24. ALL DUCT RUNOUTS TO AIR DISTRIBUTION DEVICES SHALL BE PROVIDED WITH A PREFABRICATED SPIN–IN FITTING AND VOLUME DAMPER (FLEXMASTER MODEL PLAIN FL SPIN–IN FITTING AND RUSKIN MODEL MDRS25 VOLUME DAMPER OR APPROVED EQUAL) FOR CONNECTION TO LOW PRESSURE DUCTWORK. FIELD FABRICATED SPIN–IN FITTINGS AND VOLUME DAMPERS ARE NOT ACCEPTABLE.
25. LOCATE GROUPS OF PIPING PARALLEL TO EACH OTHER, SPACED TO PERMIT APPLYING INSULATION WITH A MINIMUM 1–INCH SEPARATION BETWEEN INSULATED PIPING AND SPACED TO PERMIT SERVICING OF VALVES.
26. MULTIPLE ROW HYDRONIC COILS SHALL BE PIPED COUNTERFLOW WITH THE COIL SUPPLY CONNECTION LOWER THAN THE RETURN CONNECTION.
27. UNLESS NOTED OTHERWISE, PIPING RUNOUTS TO TERMINAL UNITS SHALL BE THE SAME SIZE AS THE REHEAT COIL CONNECTION, BUT NOT LESS THAN 3/4–INCH. SEE EQUIPMENT SCHEDULES FOR SIZES.
28. UNLESS NOTED OTHERWISE, PROVIDE TWO–WAY CONTROL VALVES FOR ALL TERMINAL UNIT REHEAT COILS.
29. REFER TO THE PHASING PLANS ON THE 'G' SERIES DRAWINGS FOR PHASING REQUIREMENTS OF THE PROJECT.

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Greenville
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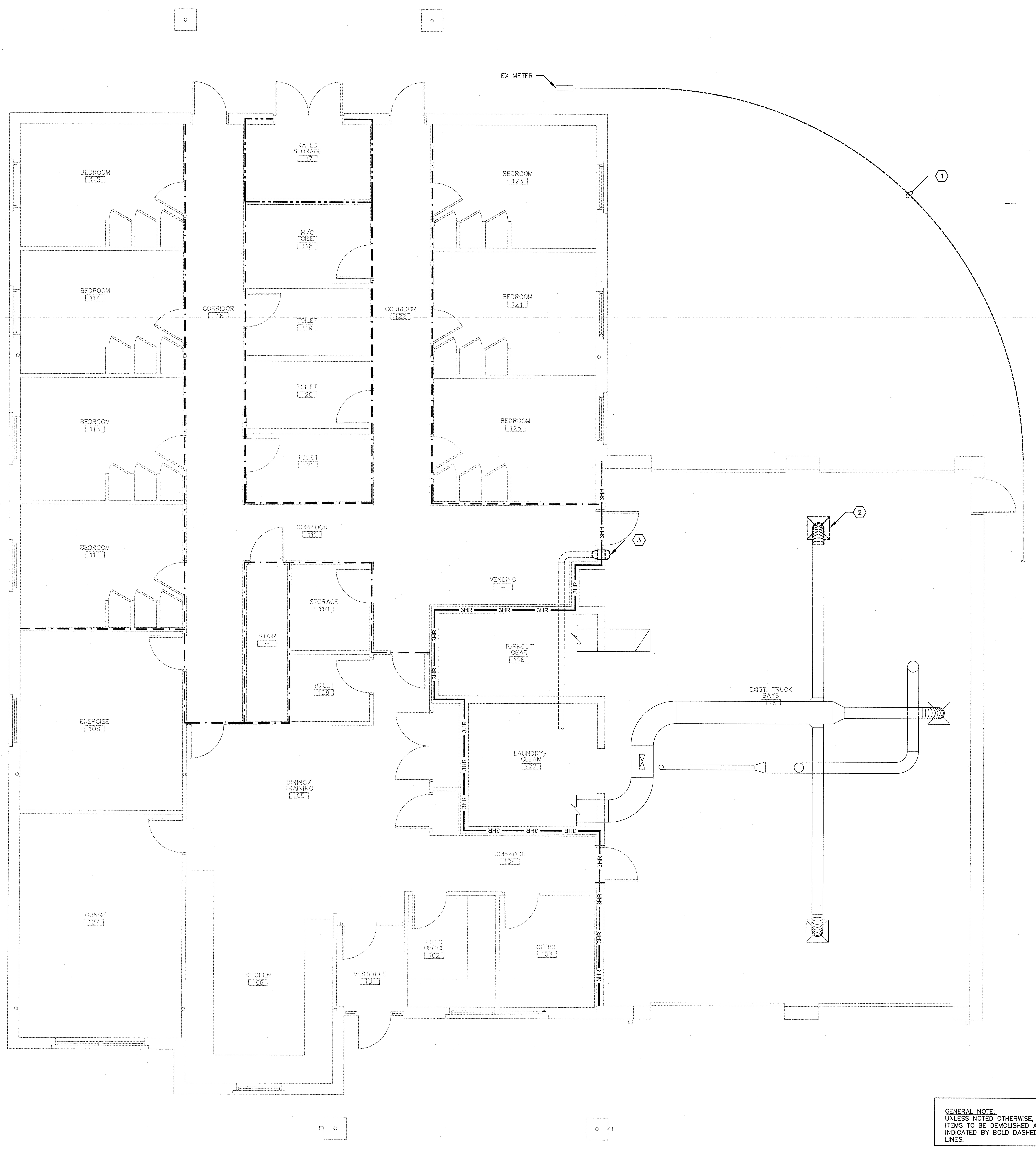
THE EAST GROUP, P.A. REGISTERED ARCHITECTURAL COMPANY 50213 NORTH CAROLINA GREENVILLE, NC

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER W. PETERSON
10/26/17

REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION	DCM	DWP

TEG PROJECT NO. 20160246
CLIENT PROJECT NO. WORK ORDER NO. 24
PROJECT TITLE: CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT
DRAWING TITLE: MECHANICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES
DRAWING NO. M0.1



Keyed Notes

1. DEMOLITION OF EXISTING UNDERGROUND GAS PIPING TO BE COMPLETED BY GREENVILLE UTILITIES COMMISSION.
2. RELOCATED EXISTING SUPPLY DIFFUSER. SEE DRAWING M2.1 FOR NEW LOCATION.
3. RELOCATE EXISTING EXTERIOR WALL COVER. SEE 1/M2.1 FOR NEW LOCATION OF WALL COVER.

GENERAL NOTE:
UNLESS NOTED OTHERWISE, ITEMS TO BE DEMOLISHED ARE INDICATED BY BOLD DASHED LINES.

1 **DEMOLITION PLAN**
SCALE: 1/4" = 1'-0"

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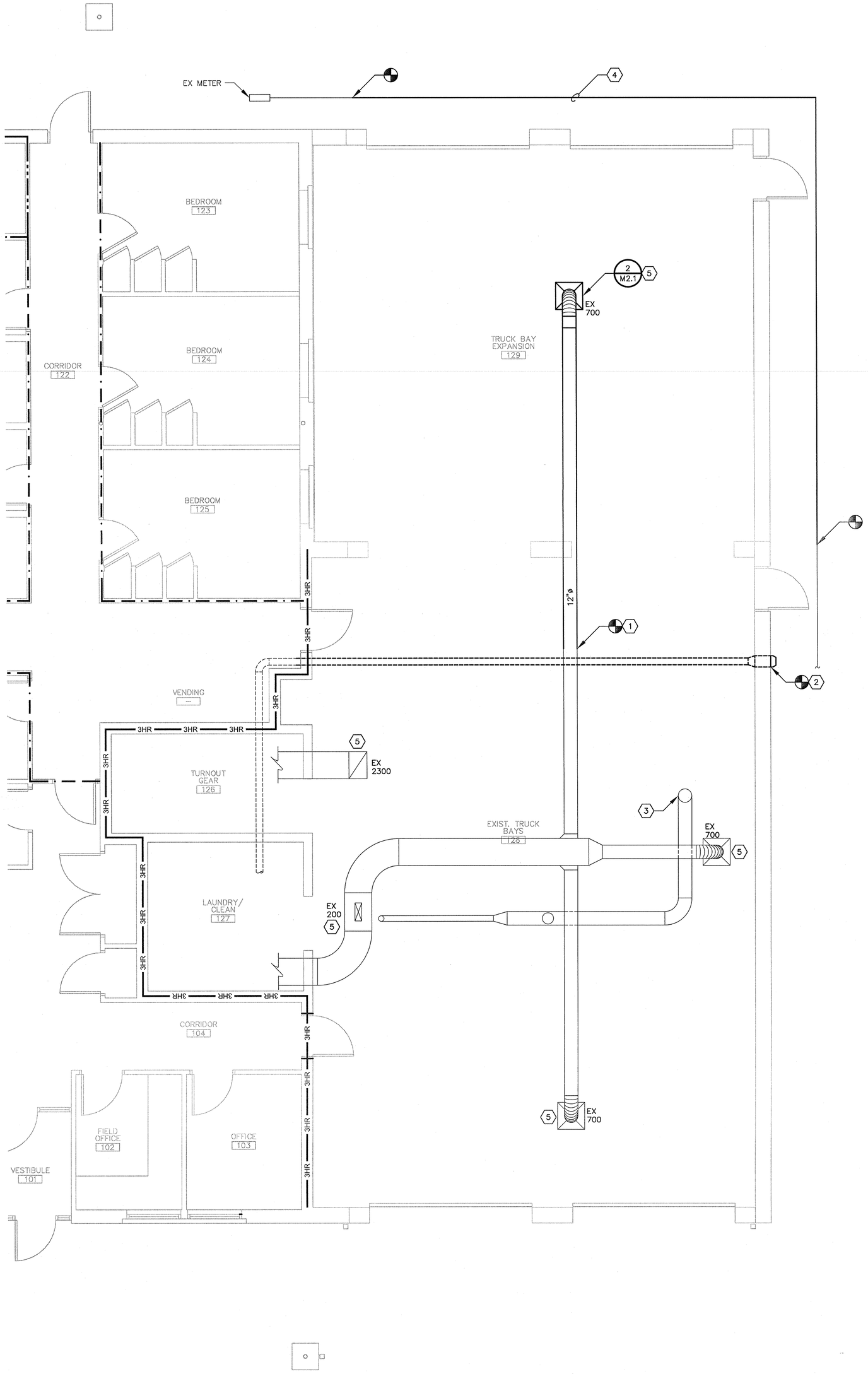
PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
DEMOLITION PLAN

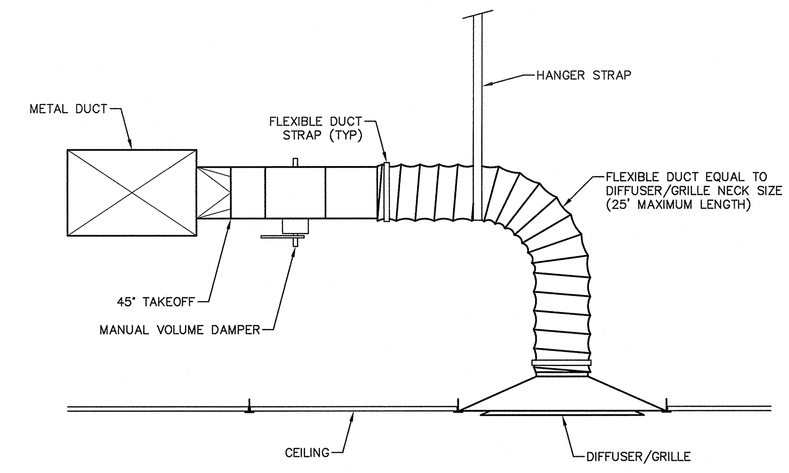
DRAWING NO.
M1.1



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

Keyed Notes

1. EXTEND EXISTING 12"ø DUCT TO RELOCATED SUPPLY DIFFUSER.
2. EXTEND EXISTING 6"ø DRYER VENT DUCT TO RELOCATED WALL COVER AS INDICATED.
3. EXTEND EXISTING TRUCK BAY EXHAUST UP THROUGH NEW ROOF.
4. NEW GAS LINE PROVIDED BY GREENVILLE UTILITIES COMMISSION.
5. BALANCE EXISTING DIFFUSERS & GRILLES TO INDICATED AIR FLOWN.



NOTE:
DUCT INSULATION NOT SHOWN FOR CLARITY.

2 **DIFFUSER/GRILLE CONNECTION**
NTS

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REV	DATE	DESCRIPTION	BY	CHK
0	10/26/17	ISSUED FOR CONSTRUCTION	DCM	DMP

TEG PROJECT NO.
20160246

CLIENT PROJECT NO.
WORK ORDER NO. 24

PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
RENOVATION PLAN

DRAWING NO.
M2.1

ELECTRICAL SYMBOLS

- WALL MTD LIGHTING FIXTURE AND OUTLET, LETTER DESIGNATES FIXTURE TYPE
- CEILING/PENDENT MTD./RECESSED LIGHTING FIXTURE AND OUTLET, LETTER DESIGNATES FIXTURE TYPE
- WALL MTD EXIT SIGN AND OUTLET
- CEILING MTD EXIT SIGN AND OUTLET, SINGLE FACE. ARROW INDICATES DIRECTION
- CEILING MTD EXIT SIGN AND OUTLET, DOUBLE FACE. ARROW INDICATES DIRECTION
- COMBINATION EMERGENCY/EXIT LIGHT; CEILING-MOUNTED; SHADED PORTION INDICATES FACE(S) WITH DIRECTIONAL ARROWS AS SHOWN; SEE LIGHT FIXTURE SCHEDULE
- WALL MTD LIGHTING FIXTURE AND OUTLET, LETTER DESIGNATES FIXTURE TYPE
- CEILING MOUNTED TRACK LIGHTING
- CEILING MTD OR LAY-IN TYPE LIGHTING FIXTURE AND OUTLET, LETTER DESIGNATES FIXTURE TYPE
- EMERGENCY LIGHT BATTERY PACK - TWO HEAD UNIT FLOODLIGHT AND OUTLET
- AREA LUMINAIRE AND STANDARD
- BOLLARD LIGHT FIXTURE
- WALL MTD OUTLET BOX WITH BLANK COVER
- CEILING MTD OR A.F.C. OUTLET BOX WITH BLANK COVER
- CEILING MTD OR A.F.C. OUTLET BOX WITH BLANK COVER DATA
- FLUSH MTD DUPLEX RECEPTACLE AND OUTLET, 20A, 125V, 3W WALL MTD AT 16" AFF UNO.

  MODIFIERS:
  - GF = GROUND FAULT RECEPTACLE
  - TR = TAMPER RESISTANT RECEPTACLE
  - WP = WEATHERPROOF COVER
- FLUSH MTD QUADRUPLEX RECEPTACLE AND OUTLET, 20A, 125V, 3W. WALL MTD AT 16" AFF UNO.
- FLUSH MTD DUPLEX RECEPTACLE AND OUTLET 20A, 125V, 3W, INSTALLED 4" ABOVE BACKSPLASH OR COUNTER IF NO BACKSPLASH EXISTS.
- FLUSH MOUNTED QUADRUPLEX RECEPTACLE AND OUTLET 20A, 125V, 3W, INSTALLED 4" ABOVE BACKSPLASH OR COUNTER IF NO BACKSPLASH EXISTS.
- FLOOR MTD OUTLET WITH DUPLEX RECEPTACLE AND FITTING, 20A, 125V, 3W
- MULTI OUTLET ASSEMBLY
- SPECIAL OUTLET WITH NEMA DESIGNATION
- SINGLE POLE SWITCH; WALL-MOUNTED AT 48" AFF UNO; WHERE SHOWN, "a" INDICATES LAMPS CONTROLLED BY SWITCH; WHERE SHOWN, "xx" INDICATES MODIFIER AS LISTED BELOW; SEE WIRING DEVICE SCHEDULE

  MODIFIERS:
  - 3 = 3-WAY SWITCH
  - 4 = 4-WAY SWITCH
  - D = DIMMER SWITCH
  - WP = WEATHERPROOF COVER
  - T = TIMER SWITCH
  - O = OCCUPANCY SENSING
- WALL MTD TELEPHONE OUTLET WITH 3/4"C FROM OUTLET TO CORRIDOR ACCESSIBLE CEILING SPACE, 16" AFF UNO.
  - DENOTES INSTALLED 4" ABOVE BACKSPLASH OR COUNTER IF NO BACKSPLASH EXISTS.
- WALL MTD DATA OUTLET WITH 3/4"C FROM OUTLET TO CORRIDOR ACCESSIBLE CEILING SPACE, 16" AFF UNO.
  - DENOTES INSTALLED 4" ABOVE BACKSPLASH OR COUNTER IF NO BACKSPLASH EXISTS.
- COMBINATION TELEPHONE AND DATA OUTLET WITH 3/4"C FROM OUTLET TO CORRIDOR ACCESSIBLE CEILING SPACE, 16" AFF UNO.
  - DENOTES INSTALLED 4" ABOVE BACKSPLASH OR COUNTER IF NO BACKSPLASH EXISTS.
- FLOOR MTD TELEPHONE OUTLET WITH OUTLETS AND CABLES
- FLOOR MTD DATA OUTLET WITH OUTLETS AND CABLES
- COMBINATION TELEPHONE AND DATA FLOOR OUTLET, 1 GANG, 3/4" TO ACCESSIBLE CEILING SPACE WITH OUTLETS AND CABLES
- TELEPHONE BELL
- WIRELESS CEILING MOUNT
- BASKET TYPE CABLE TRAY- CONT. (TYP) SHOWN BROKEN FOR CLARITY ONLY.
- PANELBOARD, FLUSH MOUNTED
- PANELBOARD, SURFACE MOUNTED
- CONCEALED RACEWAY. INDICATES A MINIMUM OF 2 #12 AND 1 #12 GROUND 1/2" CONDUIT. (PROVIDE ALL SWITCHED AND NON SWITCHED CONDUCTORS AS REQUIRED BY SWITCHING SHOWN ON PLANS)
- CONCEALED RACEWAY. INDICATES A MINIMUM HOMERUN TO PANEL WITH 2#12 AND 1#12 GROUND IN 1/2" CONDUIT. (PROVIDE ALL SWITCHED AND NON SWITCHED CONDUCTORS AS REQUIRED BY SWITCHING SHOWN ON PLANS)
- 2,4 — CONCEALED RACEWAY. INDICATES A MINIMUM OF 2 #12, 2#12 NEUTRAL AND 1 #12 GROUND 1/2" CONDUIT. (PROVIDE ALL SWITCHED AND NON SWITCHED CONDUCTORS AS REQUIRED BY SWITCHING SHOWN ON PLANS)
- N-2,4,6 — CONCEALED RACEWAY. INDICATES A MINIMUM 3#12, 3#12 NEUTRAL AND 1#12 GROUND IN 1/2"C. (PROVIDE ALL SWITCHED AND NON SWITCHED CONDUCTORS AS REQUIRED BY SWITCHING SHOWN ON PLANS)
- 3 #8, 1 #10G, - 1"C — CONCEALED RACEWAY. ALL RACEWAYS WITH OTHER THAN #12 CONDUCTORS WILL HAVE WIRE AND CONDUIT SIZES DESIGNATED ON PLAN OR RISER DIAGRAMS.
- CONCEALED RACEWAY INSTALLED IN OR UNDER FLOOR OR GROUND. INDICATES A MINIMUM 1#12, 1#12 NEUTRAL AND 1#12 GROUND IN 1/2" CONDUIT. (PROVIDE ALL SWITCHED AND NON SWITCHED CONDUCTORS AS REQUIRED BY SWITCHING SHOWN ON PLANS)

RACEWAY NOTES:
1. IF NO HOME RUN OR CIRCUIT SYMBOL IS SHOWN, PROVIDE 2#12, 1#12G-1/2"C TO THE CIRCUIT NUMBER INDICATED ADJACENT TO FIXTURE OR OUTLET

ELECTRICAL SYMBOLS

- NF 30 — 30 AMP NON-FUSED DISCONNECT SWITCH. NUMBER OF POLES AND VOLTAGE PER CIRCUIT FED.
- 20 30 — 30 AMP FUSED DISCONNECT SWITCH, FUSED AT 20 AMP. NUMBER OF POLES AND VOLTAGE PER CIRCUIT FED.
- NF 30 WP — 30 AMP NON-FUSED, WEATHERPROOF DISCONNECT SWITCH. NUMBER OF POLES AND VOLTAGE PER CIRCUIT FED.
- COMBINATION DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER
- FURNISHED DISCONNECT
- ENCLOSED CIRCUIT BREAKER
- MAGNETIC MOTOR STARTER
- MANUAL MOTOR STARTER WITH OVERLOAD HEATERS
- VFD — VARIABLE FREQUENCY DRIVE
- 1 — A.C. MOTOR, NUMERAL INDICATES HP
- EPO — EMERGENCY POWER OFF BUTTON
- EQUIPMENT CONNECTION
- TR — DRY TYPE TRANSFORMER
- R — RELAY
- TS — TAMPER SWITCH
- PS — PRESSURE SWITCH
- FS — FLOW SWITCH
- RL — REMOTE INDICATOR LAMP
- F — WALL MTD FIRE ALARM PULL STATION
- DH — FIRE ALARM DOOR HOLD OPEN
- EB — ELECTRIC BELL FOR FIRE SPRINKLER
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- B — BUZZER BELL
- F — FIRE ALARM HORN STROBE
- PUSH BUTTON
- HD — HEAT DETECTOR, CEILING MTD.
- SD — SMOKE DETECTOR, CEILING MTD.
- CM — CONTROL MODULE
- MM — MONITOR MODULE
- R — FIRE ALARM REMOTE CONTROL RELAY
- EDR — EMERGENCY DOOR RELEASE
- PN — PANIC BUTTON
- CB — CALL BOX
- PTZ — CCTV PAN TILT CAMERA LOCATION
- MOD — MOTORIZED DOOR
- CR — DOOR SECURITY CARD READER; WALL MOUNTED AT 48" AFF
- DC — SECURITY DOOR DETECTOR
- DL — DOOR LOCK
- ML — MAGNETIC DOOR LOCK
- ER — DOOR EXIT REQUEST HARDWARE
- KP — SECURITY KEY PAD
- PP — DOOR PUSH PAD OPENER
- KS — KEY OVERRIDE SWITCH
- RB — DOOR RELEASE BUTTON AT NURSE STATION.
- EL — ELECTRIC STRIKE WITH STOREROOM FUNCTION MORTISE LOCK
- EM — ELECTRIC MORTISE WITH ELECTRIC HINGE
- EK — ELECTRONIC PUSH BUTTON ACCESS LOCK
- VR — VERTICAL RODS WITH PANIC DEVICE
- MS — MOTION SENSOR
- M/ — COLOR MASTER MONITOR
- C/I — SEMI-FLUSH MOUNTED PAN TILT COLOR DOOR STATION
- PC — PHOTOCELL, 2000 WATT UNLESS NOTED OTHERWISE
- S — GENERAL PAGING SPEAKER LOCATION
  D DENOTES DEPARTMENTAL PAGING SPEAKER
- H — HORN SPEAKER
- IC — INTERCOM STATION
- V — FLUSH MTD VOLUME CONTROL FOR SPEAKER
- TV — TELEVISION OUTLET
- SURGE ARRESTOR
- TRANSFER SWITCH
- CONTACTOR
- SWITCH
- GROUND PER NEC

LOAD SUMMARY

A. **DEMAND LOAD NEW**

ELECTRICAL EQUIPMENT	DEMAND LOAD (VA)	
RECEPTACLE	1,800	
LIGHTING (ASSUMING ADD ALT. NO. 1 ACCEPTED)	1,224	
SUB-TOTAL	**3,024**	
TOTAL NEW LOAD (VA)		**3,024**

B. **DEMAND LOAD - EXISTING TO BE DEMOLISHED**

ELECTRICAL EQUIPMENT	DEMAND LOAD (VA)	
RECEPTACLE	0	
LIGHTING (ASSUMING ADD ALT. NO. 1 ACCEPTED)	1,704	
SUB-TOTAL	**1,704**	
TOTAL DEMAND LOAD - EXISTING (VA)		**1,704**

C. **NET BUILDING LOAD - NEW MINUS EXISTING (VA)** **1,320**

ELECTRICAL ABBREVIATIONS

ø	ROUND, DIAMETER OR PHASE
3/C	NUMBER OF CONDUCTORS
A	AMPERES
AC	ALTERNATING CURRENT
AF	AMP FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPABILITY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAGE
CATV	COMMUNITY ANTENNA TELEVISION SYSTEM
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION SYSTEM
CPT	CONTROL POWER TRANSFORMER
CT'S	CURRENT TRANSFORMERS
CTTS	CLOSED TRANSITION TRANSFER SWITCH
CU	COPPER
EGC	EQUIPMENT GROUNDING CONDUCTOR
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
ER	EXISTING RELOCATE
F	FUSED
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
F.F.E.	FINISHED FLOOR ELEVATION
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METAL CONDUIT
FVNR	FULL VOLTAGE NON-REVERSING
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT INTERRUPTER
G	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
IMC	INTERMEDIATE METAL CONDUIT
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
MATV	MASTER ANTENNA TELEVISION SYSTEM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MH	METAL HALIDE
MLO	MAIN LUG ONLY
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION AGENCY
N.I.C.	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
N.T.S.	NOT TO SCALE
PB	PULL BOX
RMC	RIGID METAL CONDUIT
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SS	STAINLESS STEEL
SWGR	SWITCHGEAR
SWBD	SWITCHBOARD
TTB	TELEPHONE TERMINAL BOARD
TYP.	TYPICAL
TV	TELEVISION
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF
XP	EXPLOSION PROOF
Y-Δ	WYE-DELTA

GENERAL NOTES

1. NOT ALL SYMBOLS & ABBREVIATIONS SHOWN ON THIS DRAWING MAY BE USED FOR THIS PROJECT.
2. UNLESS OTHERWISE NOTED, EACH TRADE CONTRACTOR IS RESPONSIBLE FOR CUTTING, CORE DRILLING, PATCHING, ETC. TO INSTALL HIS RESPECTIVE WORK.
3. COORDINATE WORK OF THIS TRADE WITH OTHER TRADE CONTRACTORS.
4. SEAL ALL PIPING AND/OR CONDUIT PENETRATIONS THROUGH FIRE RATED ASSEMBLIES (WALLS, PARTITIONS, FLOORS, ETC.) IN ACCORDANCE WITH THE UL LISTED SYSTEMS SHOWN "G" SERIES DRAWINGS.
5. SEAL ALL PIPING AND/OR CONDUIT PENETRATIONS THROUGH NON-RATED ASSEMBLIES (WALLS, PARTITIONS, FLOORS, ETC.) TO REDUCE TRANSFER OF SOUND THROUGH THE ASSEMBLIES. GYPSUM WALLBOARD "MUD" MAY BE USED TO SEAL GAPS NOT EXCEEDING 1/2- INCH.
6. EXAMINE THE PROJECT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR FAILURE TO THOROUGHLY EXAMINE EXISTING CONDITIONS TO DETERMINE THE EXACT SCOPE OF THIS PROJECT; INCLUDING DEMOLITION WORK.
7. SYSTEM COMPONENTS INDICATED TO BE DEMOLISHED ARE BASED ON CURSORY FIELD INVESTIGATIONS AND EXISTING DRAWINGS. SYSTEM COMPONENTS SHOWN ON THE DEMOLITION DRAWINGS MAY OR MAY NOT BE LOCATED OR LABELED CORRECTLY. EXAMINE ALL AREAS THAT ARE INDICATED FOR DEMOLITION WORK AND FIELD IDENTIFY AND VERIFY ALL SYSTEM COMPONENTS PRIOR TO COMMENCING DEMOLITION OR NEW CONSTRUCTION. IDENTIFICATION AND VERIFICATION SHALL INCLUDE TRACING EACH SYSTEM COMPONENT TO DETERMINE ITS EXACT ORIGIN AND THE AREA OR EQUIPMENT THE SYSTEM COMPONENT SERVES.
8. DEMOLITION WORK SHALL BE PERFORMED WITH DUE CARE AND DILIGENCE. TAKE ALL NECESSARY MEASURES TO PREVENT THE ARBITRARY INTERRUPTION OR DESTRUCTION OF CONCEALED SYSTEM COMPONENTS THAT ARE TO REMAIN OPERATIONAL, AND THE ROUTING OF WHICH COULD NOT BE PREDETERMINED UNTIL THE COMMENCEMENT OF DEMOLITION WORK. REPORT TO THE ARCHITECT AND/OR ENGINEER ALL SUCH DISCOVERIES OF SYSTEM COMPONENTS DURING DEMOLITION THAT ARE UNIDENTIFIED OR ARE FOUND TO BE IN A DIFFERENT LOCATION FROM THAT INDICATED.
9. SYSTEM COMPONENTS SERVING AREAS OF THE PROJECT OCCUPIED BY THE OWNER DURING CONSTRUCTION SHALL BE MAINTAINED UNTIL THE OWNER VACATES THE AREA.
10. COORDINATE DEMOLITION WORK WITH OTHER TRADE CONTRACTORS AND THE OWNER. SOME DEMOLITION WORK MAY HAVE TO BE PERFORMED DURING OFF-HOURS (NIGHTS AND WEEKENDS). SCHEDULE ALL OFF-HOURS WORK IN ADVANCE WITH THE OWNER. INCLUDE OVERTIME LABOR FOR OFF-HOURS WORK IN THE BASE BID.
11. THE OWNER HAS THE RIGHT OF FIRST REFUSAL ON ALL SYSTEM COMPONENTS REMOVED DURING DEMOLITION. SYSTEM COMPONENTS NOT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS.
12. EXISTING AREAS OF THE FACILITY (WHETHER INSIDE OR OUTSIDE OF THE PROJECT LIMITS) DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
13. REPORT IMMEDIATELY TO THE ARCHITECT AND/OR ENGINEER AND OWNER ANY MATERIAL ENCOUNTERED DURING DEMOLITION THAT HAS BEEN IDENTIFIED AS, OR IS SUSPECTED OF, CONTAINING ASBESTOS.
14. COORDINATE AND SCHEDULE ALL SHUTDOWNS OF EXISTING UTILITIES TWO WEEKS IN ADVANCE WITH THE OWNER.
15. REFER TO G SERIES DRAWINGS FOR CONSTRUCTION PHASING.
16. NOTIFY THE OWNER ONE WEEK PRIOR TO WORK IN ANY ELECTRICAL PANELS, SWITCHGEAR, OR EQUIPMENT.
17. MOUNTING HEIGHTS GIVEN IN THE ELECTRICAL SPECIFICATIONS ARE TO THE CENTERLINE OF THE DEVICE AND SHALL BE FOLLOWED UNLESS OTHERWISE NOTED AT THE SYMBOL, ON ARCHITECTURAL ELEVATIONS OR CASEWORK DETAILS.
18. IN GENERAL ALL ELECTRICAL CONDUIT WILL BE RUN JUST BELOW THE BOTTOM OF STRUCTURAL BEAMS. OFFSET ELECTRICAL CONDUIT TO AVOID INTERFERENCE WITH DUCTWORK, OR MECHANICAL PIPING. COORDINATE CONDUIT AND RACEWAY LOCATIONS WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
19. ALL 20 AMP 120V POWER HOME RUNS GREATER THAN 75 FT. SHALL BE #10 AWG U.N.O.
20. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 70 AND NFPA 70E.
21. CONSTRUCTION PROCEDURES AND/OR EQUIPMENT SHALL NOT BLOCK ACCESS OR NEC ARTICLE 110 REQUIRED WORKING SPACE FOR NEW OR EXISTING ELECTRICAL PANELS, SWITCHGEAR, OR EQUIPMENT.
22. ELECTRICAL BOXES IN RATED WALL OPENINGS: OPENINGS IN ASSEMBLIES OF 2 HOURS OR LESS, FOR METALLIC ELECTRICAL BOXES NOT EXCEEDING 16 SQ. INCHES ARE PERMITTED PROVIDED THE AREA OF SUCH OPENINGS DOES NOT AGGREGATE MORE THAN 100 SQ. IN. FOR ANY 100 SQ. FT. OF FIRE RESISTANT WALL AREA OR SHAFT ENCLOSURE WALL AREA. THE WALLBOARD FACE MUST BE CUT SO THAT THE CLEARANCE FROM THE ELECTRICAL BOX DOES NOT EXCEED 1/8 INCH. OUTLET BOXES ON OPPOSITE SIDES OF THE FIRE RESISTANT WALL OR SHAFT ENCLOSURE SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES, OR BE COMPLETELY COVERED WITH 3M PUTTY PADS PER THE UL DETAILS.
23. REFEED ALL AREAS DOWNSTREAM OF DEMOLITION AREAS. WHEN ANY PORTION OF A POWER, LIGHTING, OR COMMUNICATION CIRCUIT OR SYSTEMS IS REMOVED, EVEN TEMPORARILY DURING CONSTRUCTION, THE DOWNSTREAM DEVICES SHALL BE RECONNECTED AND RETESTED TO ENSURE FULL AND COMPLETE OPERATION.
24. WHEN ADDING CIRCUIT BREAKERS TO EXISTING PANELS OR SWITCHBOARDS, PROVIDE CIRCUIT BREAKERS OF THE SAME MANUFACTURER OF THE EXISTING PANEL OR SWITCHBOARD , MATCH THE HIGHEST RATED AIC RATING OF ANY EXISTING CIRCUIT BREAKERS IN THE PANEL OR SWITCHBOARDS. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED TO MOUNT THE CIRCUIT BREAKER. PROVIDE DUAL BREAKER MOUNTING HARDWARE TO MOUNT NEW AND ADJACENT EXISTING CIRCUIT BREAKER IF/AS NECESSARY.DRAWINGS INDICATE THE TRIP SIZE OF THE CIRCUIT BREAKER REQUIRED, NOT THE FRAME SIZE. PROVIDE CIRCUIT BREAKER FRAME SIZE TO FIT THE SPACE AVAILABLE. IF THE SPACE AVAILABLE REQUIRES A LARGER FRAME SIZE THAN TRIP RATING CALLED FOR, PROVIDE THE LARGER FRAME SIZE WITH A TRIP UNIT SIZED AS SPECIFIED. PROVIDE ALL BLANK FILLER PLATES AS REQUIRED TO COMPLETELY COVER THE REMAINING PANEL TRIM. RELOCATE EXISTING CIRCUIT BREAKERS AND EXTEND EXISTING CIRCUITS AS REQUIRED TO MAKE ROOM FOR NEW CIRCUIT BREAKER. PROVIDE NEW TYPED PANEL OR SWITCHBOARD SCHEDULE SHOWING ALL PANEL OR SWITCHBOARD CIRCUIT CHANGES. IF CIRCUIT BREAKERS FOR PANEL OR SWITCHBOARDS ARE NO LONGER AVAILABLE FROM THE MANUFACTURER, PROVIDE CERTIFIED REBUILD CIRCUIT BREAKERS.VISIT THE JOBSITE AND INSPECT THE EXISTING PANELS AND SWITCHBOARDS THAT CIRCUIT BREAKERS ARE TO BE ADDED TO PRIOR TO BID. PROVIDE AID OF PANEL OR SWITCHBOARD MANUFACTURE AS REQUIRED TO DETERMINE CORRECT CIRCUIT BREAKER TYPE FOR THE PANEL OR SWITCHBOARD. PROVIDE GROUND FAULT CIRCUIT BREAKER IF OTHER CIRCUIT BREAKERS IN PANEL OF SWITCHBOARD HAVE GROUND FAULT.
25. IN ALL CASES WHERE THE CONDUCTOR SIZE HAS BEEN INCREASED TO COMPENSATE FOR VOLTAGE DROP AND/OR THE CONDUCTOR SIZE IS LARGER THAN THE AVAILABLE LUG SIZE ON A NEW OR EXISTING TERMINATION, PROVIDE A NEC SIZED JUNCTION BOX JUST AHEAD OF THAT TERMINATION AND REDUCE THE WIRE SIZE DOWN TO THE MAXIMUM WIRE SIZE LISTED FOR THE TERMINATION LUG. KEEP THE REDUCED WIRE SIZE LENGTH TO THE MINIMUM LENGTH POSSIBLE. PROVIDE UL LISTED INSULATED IN LINE HYPRESS COMPRESSION SPLICES IN THE JUNCTION BOX WITH HEAT SHRINK INSULATION. SPLIT BOLT SPLICES SHALL NOT BE PERMITTED. DO NOT CUT STRANDS OFF A STRANDED CONDUCTOR TO ALLOW IT TO FIT INTO A LUG. IN ALL CASES THE REDUCED WIRE SIZE SHALL HAVE AMPACITY LARGER THAN THE CIRCUIT BREAKER OR FUSE PROTECTING THE CIRCUIT.
26. SOME WORK ON THIS PROJECT MAY BE REQUIRED TO BE PERFORMED WHILE THE EQUIPMENT IS ENERGIZED IN ORDER TO MAINTAIN OPERATIONS. COORDINATE WITH THE FOR SHUTDOWN/ENERGIZED WORK REQUIREMENTS.

GENERAL SYMBOLS

- 1 — NOTE NUMBER
- A / E5.1 — TITLE MARK, DETAIL TAG, SHEET NUMBER
- A / E5.1 — TITLE MARK, PLAN/ELEVATION/SECTION/DETAIL TAG, SHEET NUMBER
- A / E5.1 — TITLE MARK, ELEVATION TAG, SHEET NUMBER
- A, B, C, D / 1 / E5.1 — ELEVATION DESIGNATION, TITLE MARK, INTERIOR ELEVATION TAG, SHEET NUMBER
- A / E5.1 — TITLE MARK, SECTION TAG, SHEET NUMBER
- A / A — COLUMN TAG (NEW/EXISTING)
- CPR-1 — REVISION TAG AND CLOUD
- CONNECT TO EXISTING
- REMOVE TO THIS POINT
- N — NORTH ARROW
- ---------- EXISTING TO BE REMOVED (ON DEMOLITION PLAN)
- ———— EXISTING TO REMAIN (LIGHT LINE TYPE)
- ———— NEW WORK (HEAVY LINE TYPE)

HOURLY RATING

- SMOKE PARTITION
- 1/2 HOUR FIRE BARRIER
- 1P — 1 HOUR FIRE PARTITION
- 1B — 1 HOUR FIRE BARRIER
- 1 HOUR FIRE RESISTANT RATED SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR FIRE RESISTANT RATED SMOKE BARRIER
- 2HR — 2 HOUR FIRE RATED WALL
- 3HR — 3 HOUR FIRE RATED WALL
- 4HR — 4 HOUR FIRE RATED WALL
- — X — X — FENCE
- — G — G — G — ELECTRICAL GROUND WIRE

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SEAL

NORTH CAROLINA REGISTERED SEAL 024358 10.26.17 ENGINEER DOUGLAS E. STOVER

REV	DATE	DESCRIPTION	BY	CHK	DES
0	10/26/17	ISSUED FOR CONSTRUCTION	CDB		

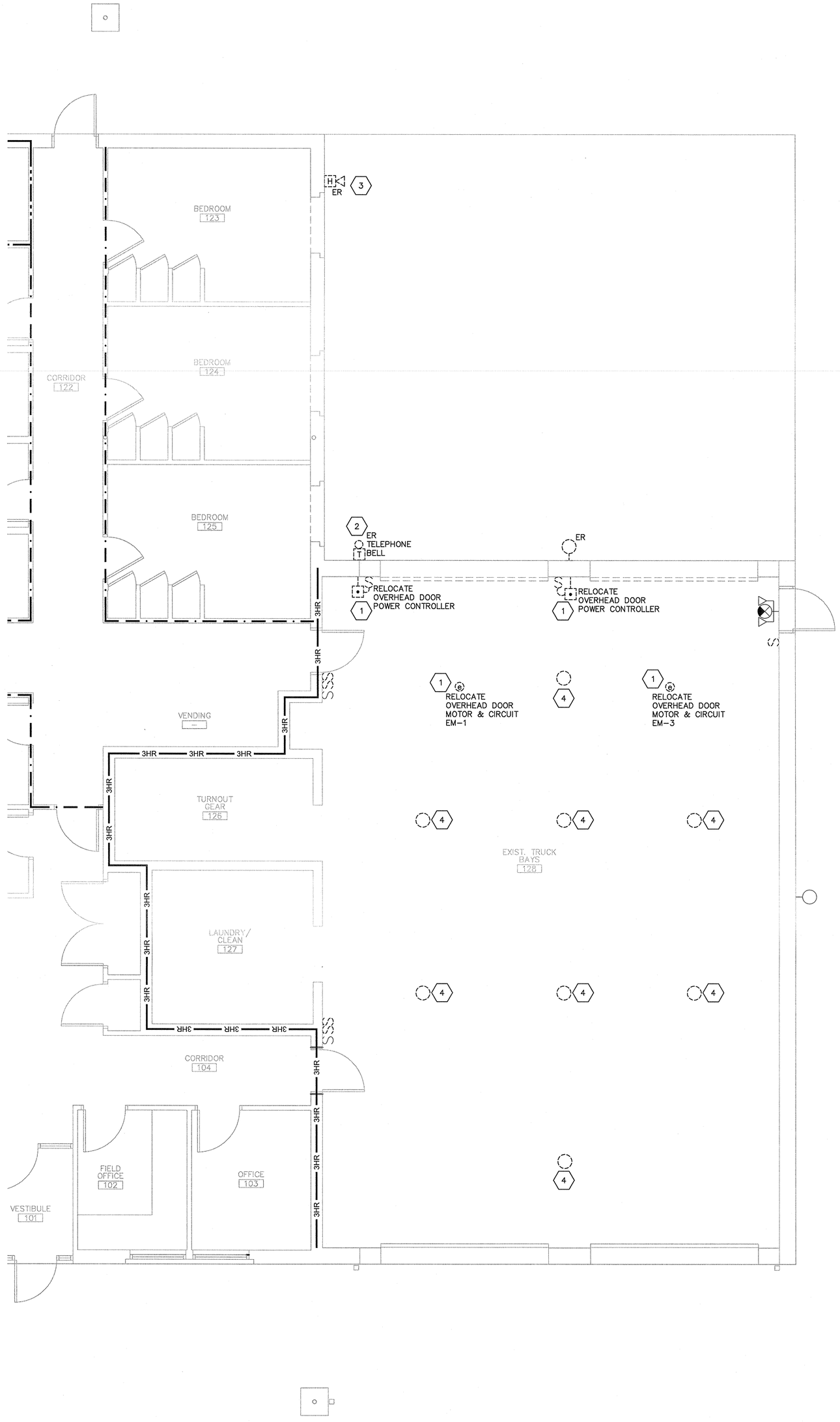
TEG PROJECT NO.
20160246

CLIENT PROJECT NO.
WORK ORDER NO. 24

PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
ELECTRICAL SYMBOLS, LOAD SUMMARY, ABBREVIATIONS, AND GENERAL NOTES

DRAWING NO.
E0.1



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

GENERAL NOTES:

1. COORDINATE INSTALLATION OF ELECTRICAL WORK IN CEILING WITH HVAC DUCTS, LIGHTS, GARAGE DOOR EQUIPMENT AND STRUCTURAL MEMBERS. PROVIDE ADDITIONAL OFFSETS/FITTINGS AS REQUIRED.
2. PROVIDE NEW TYPED INDEXES IN NEW AND EXISTING PANELBOARDS UPON COMPLETION AND VERIFICATION OF CIRCUITS.
3. NOT ALL SYSTEM COMPONENTS ARE INDICATED. ITEMS NOT INDICATED ARE EXISTING TO REMAIN UNLESS WALL OR CEILING DEMOLITION REQUIRES REMOVAL/RELOCATION.

NOTES KEYED TO PLAN:

1. REROUTE/EXTEND EXISTING CIRCUIT FOR RELOCATED GARAGE DOOR OPENER, CONTROLLER, DISCONNECT AND APPURTENANCES TO NEW LOCATION AS INDICATED ON EP2.1.
2. REROUTE/EXTEND EXISTING WIRE AND CONDUIT FOR TELEPHONE BELL.
3. REROUTE/EXTEND EXISTING WIRE AND CONDUIT FOR HORN SPEAKER.
4. ADD ALTERNATE NO. 1: EXISTING BAY FIXTURES TO BE REPLACED.

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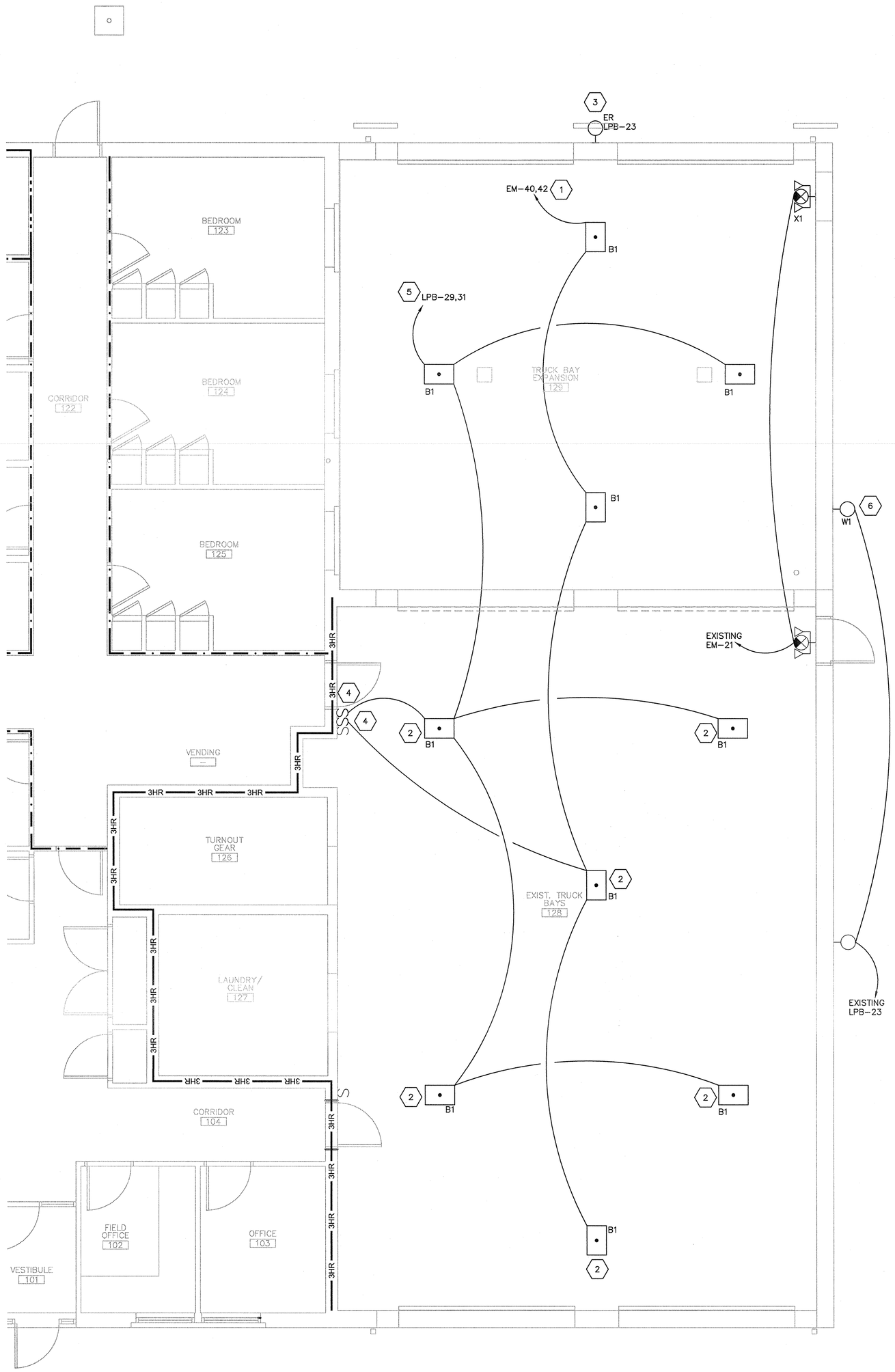
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
FLOOR PLAN DEMOLITION

DRAWING NO.
E1.1



1 FLOOR PLAN - LIGHTING

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

GENERAL NOTES:

1. COORDINATE INSTALLATION OF ELECTRICAL WORK IN CEILING WITH HVAC DUCTS, LIGHTS, GARAGE DOOR EQUIPMENT AND STRUCTURAL MEMBERS. PROVIDE ADDITIONAL OFFSETS/FITTINGS AS REQUIRED.
2. PROVIDE NEW TYPED INDEXES IN EXISTING PANELBOARDS UPON COMPLETION AND VERIFICATION OF CIRCUITS.
3. SEE LIGHT FIXTURE SCHEDULE THIS DRAWING FOR FIXTURE TYPE.
4. ELECTRICAL PANELS "EM" AND "LPB" ARE LOCATED IN BUILDING ATTIC, WHICH IS ACCESSIBLE BY STAIRS.

NOTES KEYED TO PLAN:

1. PROVIDE 20A/2P BREAKER IN PANELBOARD EM (CIRCUIT INDICATED).
2. ADD ALTERNATE NO. 1: PROVIDE NEW LIGHT FIXTURE IN EXISTING TRUCK BAY. IF ALTERNATE NOT ACCEPTED EXISTING LIGHTING TO REMAIN ON EXISTING CIRCUITS.
3. RELOCATED FIXTURE TO MATCH EXISTING AFG DIMENSION OF EXISTING WALL PACK FIXTURES.
4. PROVIDE DOUBLE POLE SWITCH (HUBBLE HBL1202I). IF ADD ALTERNATE NO. 1 NOT ACCEPTED EXISTING BAY LIGHTING TO REMAIN IN EXISTING SWITCHES AND ONLY EXTEND BAY TO BE ON THIS SWITCH.
5. PROVIDE 20A/2P BREAKER IN PANELBOARD LPB (CIRCUIT INDICATED). VERIFY SPARE CIRCUITS.
6. PROVIDE WALL PACK TO MATCH EXISTING AFG. CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT (VERIFY).

LIGHTING FIXTURE SCHEDULE

FIXTURE				LAMPS (EC SHALL PROVIDE AND INSTALL ALL LAMPS.)					REMARKS
TYPE	DESCRIPTION	MANUFACTURER / CATALOG NUMBER	VOLTS	QTY.	TYPE	WATTS	COLOR	CATALOG NUMBER	
B1	HIGH BAY, LED, IP66 RATED, 208VAC	DIGITAL LUMENS INCORPORATED ILE-3-13-22300(WDE, 5000K) OR EQUAL	208	–	LED	112	5000K	–	FIXED MOUNT APPROXIMATELY 15'-0" AFF
W1	WALL PACK, OUTDOOR	PHILIPS STONCO WPM-100-LX-L-FS-1	120	1	100W HPS	100	–	–	MATCH EXISTING WALL PACK AFG
X1	COMBINATION EMERGENCY/EXIT SIGN, LED, SIGNAL FACE, WHITE FACE, RED LETTERS, EMERGENCY BATTERY BACKUP WITH SELF-DIAGNOSTICS	EMERGILITE L-W-SNX14-R-2-L-AD	120/277	–	LED	4	–	–	MATCH EXISTING EXIT AFF

* SUBSTITUTIONS MAY BE ACCEPTED ONLY IF EQUAL PRODUCT HAS BEEN REVIEWED AND APPROVED BY THE EAST GROUP PRIOR TO BID DATE. MODEL NUMBER DENOTES MINIMUM QUALITY AND PERFORMANCE.
1. GENERAL NOTE: ALL LAMPS SHALL BE FURNISHED AND INSTALLED BY EC.
2. GENERAL NOTE: UNLESS NOTED OTHERWISE, ALL ABOVE FINISHED FLOOR DIMENSIONS ARE REFERENCED TO THE CENTER OF THE FIXTURE.

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SEAL 024358 10.26.17 ENGINEER DOUGLAS E. STOKES

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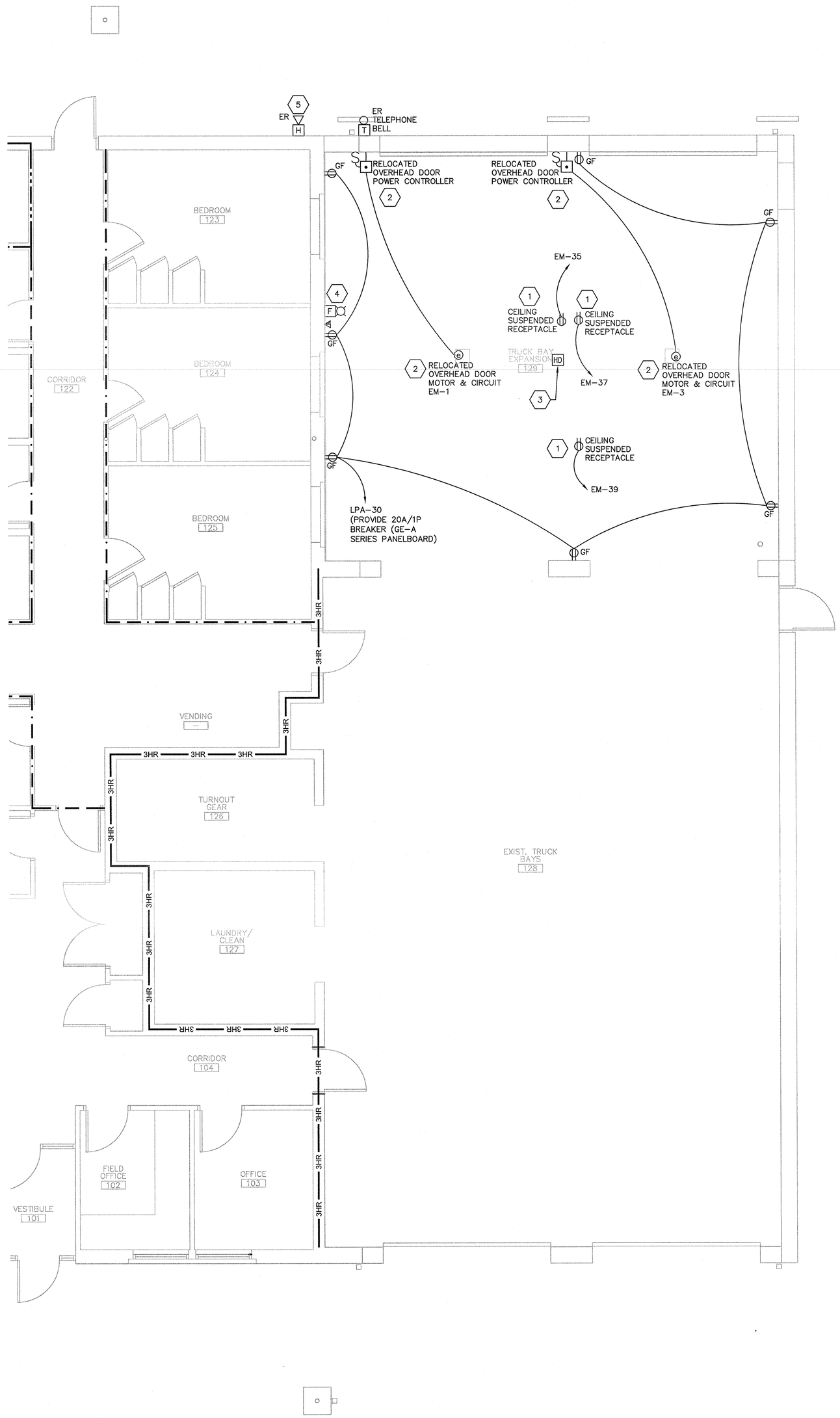
TEG PROJECT NO.
20160246

CLIENT PROJECT NO.
WORK ORDER NO. 24

PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
FLOOR PLAN LIGHTING

DRAWING NO.
EL2.1



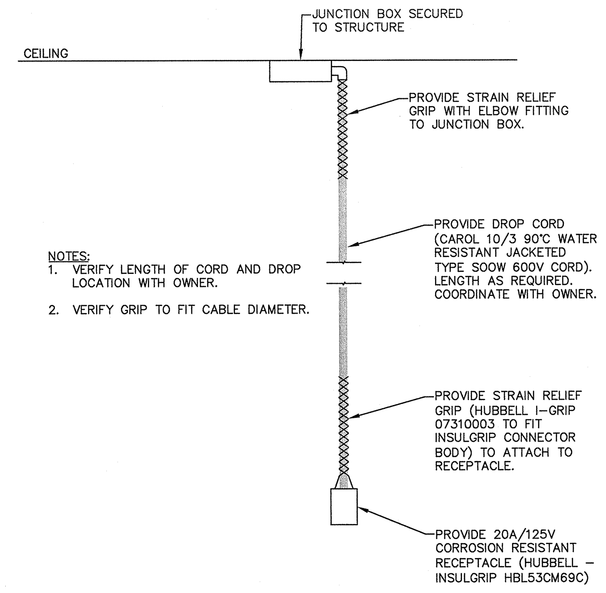
1 **FLOOR PLAN - POWER**
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. COORDINATE INSTALLATION OF ELECTRICAL WORK IN CEILING WITH HVAC DUCTS, LIGHTS, GARAGE DOOR EQUIPMENT AND STRUCTURAL MEMBERS. PROVIDE ADDITIONAL OFFSETS/FITTINGS AS REQUIRED.
2. PROVIDE NEW TYPED INDEXES IN EXISTING PANELBOARDS UPON COMPLETION AND VERIFICATION OF CIRCUITS. PANELBOARDS LOCATED IN ATTIC ROOM OVER LIVING QUARTERS.
3. FOR EXPANSION PROVIDE A #1/0 GROUND WIRE FROM THE NEW SLAB REBAR AND NEW COLUMN TO THE SERVICE ENTRANCE PANEL GROUND BAR.
4. ELECTRICAL PANELS "EM" AND "LPA" ARE LOCATED IN BUILDING ATTIC, WHICH IS ACCESSIBLE BY STAIRS.

NOTES KEYED TO PLAN:

1. PROVIDE CEILING SUSPENDED CORD AND PLUG SEE DETAIL 2/EP2.1 FOR MORE INFORMATION. PROVIDE GFI 20A/1P BREAKER IN PANEL BOARD EM (SQUARE D NQOD TYPE) AS REQUIRED.
2. REROUTE/EXTEND EXISTING GARAGE DOOR OPENER CIRCUIT AND ASSOCIATED APPURTENANCES TO THIS NEW LOCATION.
3. PROVIDE HEAT DETECTOR AND CONNECTIONS TO EXISTING FIRE ALARM SYSTEM INITIATING CIRCUIT. DEVICE, CONDUIT AND WIRING TO MATCH EXISTING SYSTEM. COORDINATE WITH OWNER'S FIRE ALARM SYSTEM VENDOR.
4. PROVIDE FIRE ALARM HORN/STROBE AND CONNECTIONS TO EXISTING FIRE ALARM SYSTEM NOTIFICATION CIRCUIT. DEVICE, CONDUIT AND WIRING TO MATCH EXISTING SYSTEM. COORDINATE WITH OWNER'S FIRE ALARM SYSTEM VENDOR.
5. REROUTE/EXTEND WIRE AND CONDUIT FOR EXISTING RELOCATED HORN SPEAKER TO THIS NEW LOCATION. SEE E1.1 FOR OLD LOCATION.



2 **FIRE TRUCK DROP**
NTS

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ENGINEER
DOUGLAS E. STONE

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PROJECT TITLE
CITY OF GREENVILLE FIRE STATION NO. 2 EXPANSION AND ROOF REPLACEMENT

DRAWING TITLE
FLOOR PLAN POWER

DRAWING NO.
EP2.1