PATIENT CARE CLINIC
UNIVERSITY OF NEW ENGLAND
PORTLAND MAINE

IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY

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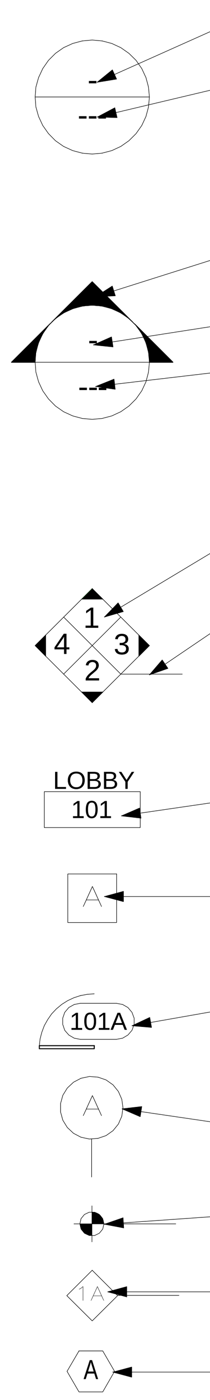

DETAIL NUMBER
SHEET WHERE DETAIL IS DRAWN
INDICATES BUILDING SECTION OR BUILDING ELEVATION
BUILDING SECTION LETTER
SHEET WHERE BUILDING SECTION IS DRAWN
INTERIOR ELEVATION NUMBER
SHEET WHERE ELEVATION IS DRAWN
ROOM NAME AND NUMBER
KEYED NOTE
DOOR NUMBER
COLUMN GRID LINE
ELEVATION TARGET
WALL TYPE
WINDOW TYPE

GENERAL NOTES

1. ALL MATERIALS, COMPONENTS, AND WORK ARE NEW AND SHALL BE PROVIDED IN THIS CONTRACT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
2. ALL WORK INCLUDED IN THIS CONTRACT SHALL CONFORM TO ALL STATE, NATIONAL AND OTHER CODES AND ORDINANCES WHICH APPLY TO THIS PROJECT.
3. IT IS THE INTENT AND MEANING OF THESE DRAWINGS THAT THE CONTRACTOR AND EACH SUBCONTRACTOR PROVIDE ALL LABOR, MATERIALS, TRANSPORTATION, SUPPLIES, EQUIPMENT, ETC. TO OBTAIN A COMPLETE JOB TO INDUSTRY STANDARD IN A PROFESSIONAL WORKMANLIKE MANNER.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCY(IES) IMMEDIATELY TO THE ARCHITECT. AT THE END OF EACH WORKING DAY, THE CONSTRUCTION SITE SHALL BE LEFT IN A NEAT AND CLEAN MANNER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS WHICH ARE REQUIRED FOR THE SATISFACTORY COMPLETION OF THE WORK AND FOR PAYING ALL FEES, HOOK UP CHARGES, ETC. (STATE FIRE MARSHAL PERMIT BY OWNER.)
6. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER FOR THE SEQUENCE AND TIMING OF OPERATIONS PRIOR TO COMMENCING WORK. AREAS FOR STAGING ETC. MUST BE APPROVED BY THE OWNER.
7. THE CONTRACTOR SHALL DISPOSE OF AND / OR RECYCLE ANY CONSTRUCTION DEBRIS FROM THE PROJECT SITE AS REQUIRED BY THE STATE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING DISPOSAL PERMITS WHICH ARE REQUIRED. CONSTRUCTION DEBRIS FROM THE PROJECT SITE SHALL BE DISPOSED OF IN A STATE APPROVED LANDFILL.
9. ROOM NUMBERS ON THE DRAWING ARE FOR COORDINATION PURPOSES AND DO NOT NECESSARILY CORRESPOND TO ACTUAL ROOM NUMBERS.
10. DUTY OF COOPERATION: RELEASE OF THESE PLANS CONTEMPLATES FURTHER COOPERATION AMONG THE OWNER, THE CONTRACTOR, THE ARCHITECT AND HIS CONSULTANTS. DESIGN AND CONSTRUCTION ARE COMPLEX. ALTHOUGH THE ARCHITECT AND HIS CONSULTANTS HAVE PERFORMED THEIR SERVICES WITH DUE CARE AND DILIGENCE, THEY CANNOT GUARANTEE PERFECTION. COMMUNICATION IS IMPERFECT, AND EVERY CONTINGENCY CANNOT BE ANTICIPATED. ANY AMBIGUITY OR DISCREPANCY DISCOVERED BY THE USE OF THESE PLANS SHALL BE REPORTED IMMEDIATELY TO THE OWNER. FAILURE TO NOTIFY THE OWNER COMPOUNDS MISUNDERSTANDING AND MAY INCREASE CONSTRUCTION COSTS. A FAILURE TO COOPERATE BY A SIMPLE NOTICE TO THE OWNER SHALL RELIEVE THE OWNER AND THE ARCHITECT FROM RESPONSIBILITY FROM ALL COSTS.
11. THESE DRAWINGS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE GENERAL CONTRACTOR SHALL PROVIDE FOR THE SAFETY, CARE OF UTILITIES AND ADJACENT PROPERTIES DURING CONSTRUCTION, AND SHALL COMPLY WITH STATE AND FEDERAL SAFETY REGULATIONS.
12. ALL MATERIALS AND WORK SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR FROM THE DATE OF FINAL PAYMENT.
13. ALL DOORS SHOULD HAVE ADA COMPLIANT LEVER HANDLES.
14. SIGNAGE BY OWNER AND TO MEET ALL ADA REQUIREMENTS INCLUDING THE ONES INDICATED ON ADA BLOCK UNLESS NOTED OTHERWISE.
15. ALL KNOWN HAZARDOUS MATERIALS REMOVALS REQUIRED FOR THE SAFE IMPLEMENT OF THIS PROJECT HAVE BEEN REMOVED PRIOR TO THIS CONTRACT. IF ADDITIONAL SUSPECT MATERIALS ARE UNCOVERED DURING DEMOLITION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY OR TESTING AND / OR REMOVAL. ANY ASBESTOS REMOVAL NECESSARY FOR THE SAFE IMPLEMENTATION OF THIS PROJECT SHALL BE CONTRACTED DIRECTLY BY THE OWNER. IF NECESSARY, THE CONTRACTOR SHALL COORDINATE WITH THESE EFFORTS IF ENCOUNTERED.

TYPICAL ABBREVIATIONS

&	AND
ANG	ANGLE
@	AT
ADA	AMERICAN DISABILITIES ACT
ADJ	ADJUST OR ADJANCENT
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
ARCH	ARCHITECT OR ARCHITECTURAL
AVG	AVERAGE
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
℄	CENTER LINE
CAB	CABINET
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
COR	CORNER
CPT	CARPET
CW	COLD WATER
DBL	DOUBLE
DEG	DEGREE
DHW	DOMESTIC HOT WATER
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DW	DISH WASHER
DWG	DRAWING
E	EAST
EA	EACH
EJ	EXPANSION JOINT
LL	LIVE LOAD
LWC	LIGHT WEIGHT CONCRETE
MAX	MAXIMUM
MECH	MECHANICAL
MFG	MANUFACTURE
MH	MAN HOLE
MIL	MILLIMETER
MIN	MINIMUM
MSB	MAIN SWITCH BOARD
MTD	MOUNTED
MTL	METAL
MW	MICROWAVE
N	NORTH
N/A	NOT APPLICABLE
NAT	NATURAL
NIC	NOT IN CONTRACT
#	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OH	OVER HEAD
PAR	PARALLEL
P/C	PRECAST CONCRETE
PERF	PRFERORATED
PERP	PERPENDICULAR
PL	PLATE
P-LAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTD	PAINT
QTY	QUANTITY
R	RISER or RADIUS
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFRIGERATOR
REINF	REINFORCED
REQD	REQUIRED
ELEC	ELECTRIC
ELEV	ELEVATION
EMP	EMPLOYEE
ENCL	ENCLOSE
ENT	ENTRY or ENTRANCE
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FBO	FURNISHED BY OWNER
FDN	FOUNDATION
FF	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FIN	FINISH
FIXT	FIXTURE
FLG	FLOORING
FLR	FLOOR
FLUOR	FLUORESCENT
FT	FOOT or FEET
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GL	GLASS
GWB	GYPSUM WALL BOARD
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HVAC	HEATING, VENTILATION & AIR CONDITION
IBC	INSTALLED BY CONTRACTOR
IN	INCHES
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
LAM	LAMINATED
LB	POUNDS
LF	LINEAR FEET
RO	ROUGH OPENING
RM	ROOM
RTU	ROOF TOP UNIT
S	SOUTH
SAT	SUSPENDED ACOUSTICAL TILE
SCHED	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
SF	SQUARE FEET
SIM	SIMILAR
SP	SHELL PACKAGE
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
SQ	SQUARE
STD	STANDARD
STL	STEEL
STRUC	STRUCTURAL
SUSP	SUSPENDED
SYMM	SYMMETRICAL
T	THERMOSTAT
T & B	TOP AND BOTTOM
TEL	TELEPHONE
TGL	TEMPERED GLASS
THICK	THICKNESS
TI	TENANT IMPROVEMENTS
T.O.	TOP OF
TOJ	TOP OF JOIST
TOS	TOP OF STEEL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES, INC
UNO	UNLESS NOTED OTHERWISE
VB	VINYL BASE
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WIDE or WEST
WD	WOOD
WC	WATER COOLER
W/	WITH
W/O	WITHOUT
X	EXISTING

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REVISIONS

No.	Description	Date

PERMIT SET

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

TITLE SHEET

Project Number	12502
Date	05.10.12
Drawn by	JAP/MAC/JTC
Checked by	LAS

T1.00

Scale As indicated

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Code Review – NFPA 2009

Please note: This code review was performed in conjunction with a preliminary tenant fit-out. Some of the items below may not apply to the Building Shell. See sheet T1.02 for preliminary tenant fit-out layout.

Chapter 6 – Classification of Occupancy and Hazard of Contents

Section 6.1.2.1 – The Simulation classroom and lab, on the first level has an occupant load of 54 people and is thereby defined as Assembly.

Section 6.1.11.1 – Per the commentary, the remainder of this building (except for mechanical and storage areas) is defined as a Business occupancy.

Section 6.1.14.2.3 – Due to the Simulation classroom having an Occupant Load of over 50 people, it is required to be separated by a 1-hour rated assembly per Table 6.1.14.4.1(b).

Chapter 7 – Means of Egress

Section 7.1.3.1 – Corridors used as exit access are required to be 1-hour rated per this section. However, per subsection (2) of this section, they are not required to be rated per Section 38.3.6(3).

Section 7.1.3.2.1 – The two exits that serve this building are required to be 1-hour rated (connecting three stories or less).

Section 7.1.3.2.2 – The exit enclosures provide continuous protected path of travel to an exit discharge.

Section 7.2.1.2.4 – Door openings in the Means of Egress shall be 36" wide (32" min. clear width). Also, per Section 7.3.3 (Table 7.3.3.1), the door components shall provide for 0.2 inches per occupant (345 total load / 173 per floor / 87 per exit door): 87 people x .2" = 17.4" (use 32" clear min.).

Note: Door hardware will adhere to all code requirements and is described in the specifications.

Section 7.2.2.2.1.2(B) – Due to the occupant loads being greater than 50, the minimum stair widths are 44" per Table 7.2.2.2.1.2(B) for occupant loads less than 2,000 people.

Note: Maximum risers shall be 7", minimum tread depths are 11", and there will be less than 12'-0" between landings (per Table 7.2.2.2.1.1(a)).

Section 7.2.2.2.3.2.4 – Landings shall be 48" wide (in the direction of travel).
Section 7.2.2.4.1.1 – Handrails will be provided on both sides of the stairs and conform to Section 7.2.2.4.4.

Section 7.2.2.4.5.2 – Guards shall be 42" high and conform to Section 7.2.2.4.5.3.

Section 7.2.2.5.1.1 – Stairs shall be enclosed as required (also see Section 7.1.3.2).

Section 7.2.2.5.2.2 – Construction of the stair enclosures shall extend to the roof line.

Section 7.2.2.5.4.2 – Signage for the lower level, showing the direction to the level of exit discharge will comply with this section.

Section 7.2.5 – Exterior ramps shall comply with all dimensional requirements of this section.

Section 7.2.12.2 – An area of refuge is provided in one of the stairwells (also see Section 7.5.4.4).

Section 7.2.13 – This section does not apply since the elevators in this building are not considered means of egress.

Section 7.3.1.2 – The occupant load is as follows (per Table 7.3.1.2):

Basement Level: 2,423 s.f. / 500 s.f. per person = 5 persons
First Level:
Business Use: 11,965 s.f. / 100 s.f. per person = 120 persons
Utility/Storage Use: 1,463 s.f. / 500 s.f. per person = 3 persons
Assembly Use: 2,431 s.f. (designed for 54 persons) = 54 persons
Second Level:
Business Use: 15,679 s.f. / 100 s.f. per person = 157 persons
Utility/Storage Use: 160 s.f. / 500 s.f. per person = 1 person

Total Occupant Load: 340 persons

Section 7.3.3.1 – The egress capacity shall be .3" per occupant for the stairs. Each stair to serve a maximum of 79 persons (158 total occupant load on the second floor, divided by 2). Therefore, 79 persons x .3" per person = 23.7" (use minimum width of 44" per Section 7.2.2.2.1.2(B)).

Section 7.4.1.1 – There are two means of egress provided from the first level and second level (2 means of egress are required).
Section 7.4.1.1(1) – There is a single exit out of the basement level per 38.2.4.3.

Section 7.5.1.3.3 – The diagonal distance of the building is 205'. Because the building is sprinkled, the minimum distance between exits shall be 68'-4". The actual distance between exits is 159'-0" on the First Level and 161'-4" on the Second Level.

Section 7.5.4.1.1 – Only one accessible means of egress from the second floor is provided. This exit stairwell is accessible from all areas of the second floor within the allowable travel distance per Section 38.2.6.1 (300').

Section 7.5.4.4 – The exit stair that is used as an accessible means of egress is provided with an area of refuge, and is compliant with Section 7.2.12.3.

Section 7.7.1 – Both stairwells terminate directly to the exterior.
Note: Per Section 7.7.2, the discharge from the second floor is permitted to go through areas on the first floor (50% of occupants and 50% of exits). Exit is through an open lobby space and the building is sprinkled (Sections 7.7.2.3 and 7.7.2.4).

Section 7.12.1(1)(a) – The common path of travel out of the Mechanical basement is be less than 100' (actual distance, including within the exit, is 98'-5").

Section 7.12.2 – The Mechanical basement is allowed to have one exit.

Chapter 8 – Features of Fire Protection

Section 8.3.4 – Opening protectives in fire resistant rated assemblies shall comply with Section 8.3.4.2.

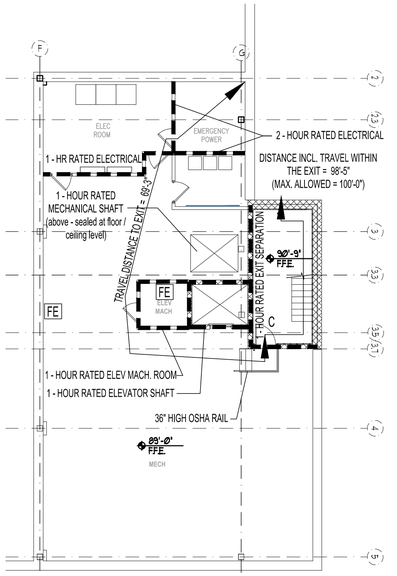
Section 8.5 – The smoke barriers that enclose the Communicating Space (see Section 8.6.6) shall comply with this section.

Section 8.6.5(2) – The fire resistant rating of floor opening enclosures (shafts) shall be 1-hour as they are connecting less than four stories.

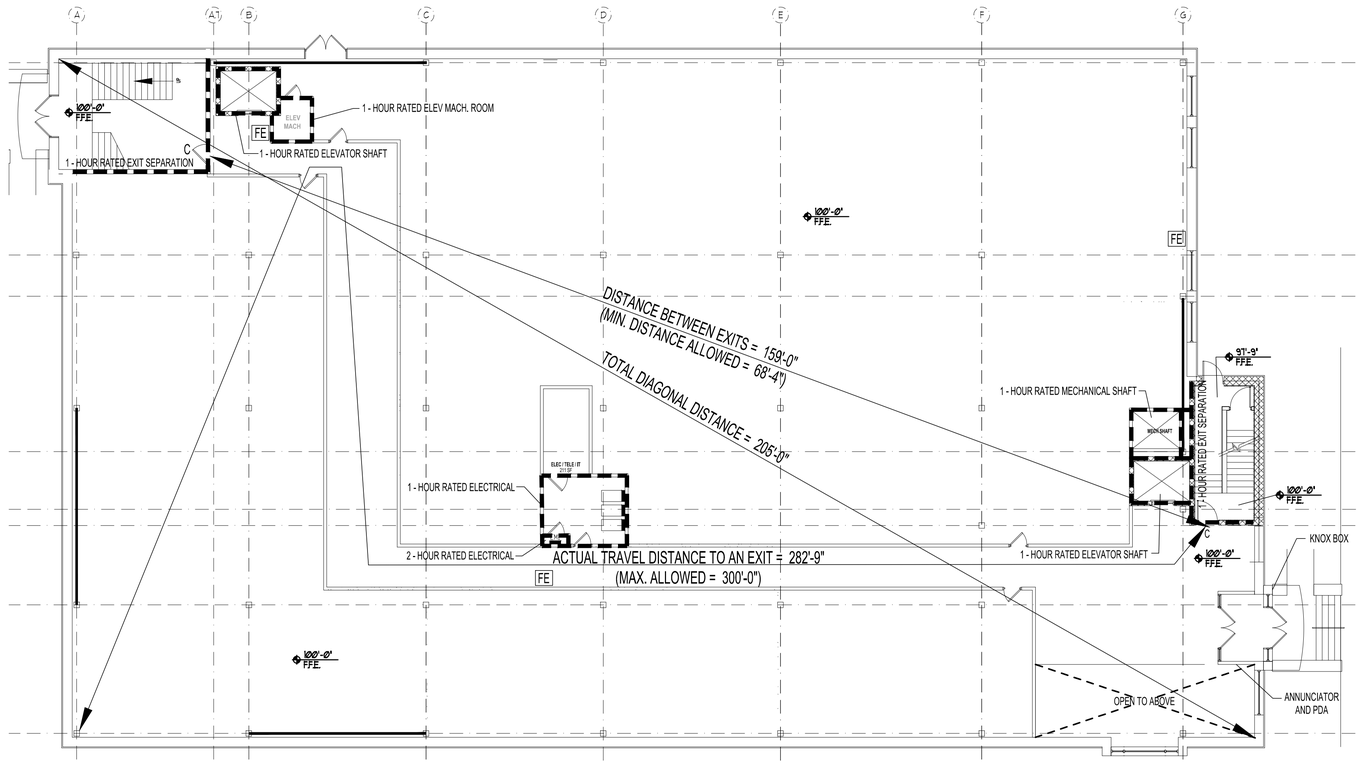
Section 8.6.6 – At the North entrance to the building, a Communicating Space is located. This space is not prohibited by Chapter 38 of this code, and will be compliant with this Section.
(1) The communicating space connects two stories.
(2) The lowest floor area of the connecting space is a street floor (and the level of exit discharge).
(3) The floor area is open and unobstructed.
(4) Per subsection (a), the building is sprinkled and therefore the communicating space is required to be separated by smoke barriers (not 1-hour rated walls).
(5) The hazards within the space are ordinary hazards.
(6) The occupant load of the entire communicating floor area is: 2,167 sf on the 1st floor + 1,539 sf on the 2nd floor = 3706 sf / 100 sf per person (Business) = 38 persons. All of the 38 occupants can exit out of the stair at once as the stair has the required egress capacity. Persons on the second floor communicating space can egress by entering the stair and then going directly outside. Persons on the first floor communicating space can egress through the front door, or if they have to, into the stair and directly out.
(7) Each occupant of the communicating space has access to the exit without having to go back through the communicating space (see note 6 above).
(8) Each occupant not in the communicating space has access to an exit without entering the communicating space. All of the occupants not in the communicating space have access to the other exit. From the furthest point (not in the communicating space) to that exit is 185' (the maximum travel distance to an exit is 300' per Section 38.2.6.1).

KEY

- 1-HR FIRE SEPARATION (SEE WALL TYPES)
- SMOKE BARRIER (EXTEND UP TO ROOF / FLOOR DECK)
- HB — DOOR TO HAVE MAGNETIC HOLD-BACK
- C — DOOR TO HAVE CLOSER
- FE — FIRE EXTINGUISHER AND CABINET



1 LOWER LEVEL EGRESS PLAN
0 10'-8" SCALE: 3/32" = 1'-0"



2 FIRST LEVEL EGRESS PLAN
0 8' SCALE: 3/32" = 1'-0"

Section 8.6.10.1 – Draftstopping of concealed spaces are as follows:
(1) Walls and partitions at each floor level, top floor ceiling level, and level of roof support.
(2) The unoccupied space formed by the sloped roof at 3,000 s.f. (maximum).
(3) Concealed spaces between the ceiling and the floor above at 1,000 s.f. maximum, and the concealed space between the second floor ceiling and roof at 3,000 s.f. maximum.

Chapter 9 – Building Service and Fire Protection Equipment

Section 9.4 – The elevators shall comply with this section and the requirements of ASME A17.1.

Section 9.4.5 – The elevators do not have travel distances that exceed 50' above the level of exit discharge or 30' below the level of exit discharge. Therefore, the independent ventilation requirements for the machine rooms are not required (per this code, also see Mechanical).

Section 9.6 – The Fire Detection and alarm systems shall be installed in this building and comply with this section.

Section 9.7 – The automatic sprinkler system shall be installed in this building and comply with this section.

Section 9.7.4 – It is anticipated that three fire extinguishers will be installed on each floor of the building. All fire extinguishers shall comply with this section of the code and with NFPA 10.

Chapter 10 – Interior Finish, Contents and Furnishings

Section 10.2.8 – Automatic sprinklers will be installed in this building. Class A, B, and C finishes will be installed accordingly and comply with this section of the code.

Chapter 38 – New Business Occupancies

Section 38.2.3.2 – The clear width of all corridors and passageways serving occupant loads over 50 persons shall be greater than 44" in width.

Section 38.2.4.3 – A single exit will be provided out of the basement level.

Section 38.2.5.2.1 – Dead-end corridors shall not exceed 50' (building is sprinkled).

Section 38.2.5.3.1 – Common path of travel shall not exceed 100' (building is sprinkled).

Section 38.2.6.1 – The travel distance to an exit shall not exceed 300' (building is sprinkled).

Section 38.2.9.1 – Emergency lighting shall be provided (building has more than 50 occupants above the level of discharge).

Section 38.3.1.1 – Vertical openings (except for the Communicating Space per Section 8.6.6) shall be protected as required by Section 8.6.

Section 38.3.1.2 – The basement floor area does not have unprotected openings to the floor above.

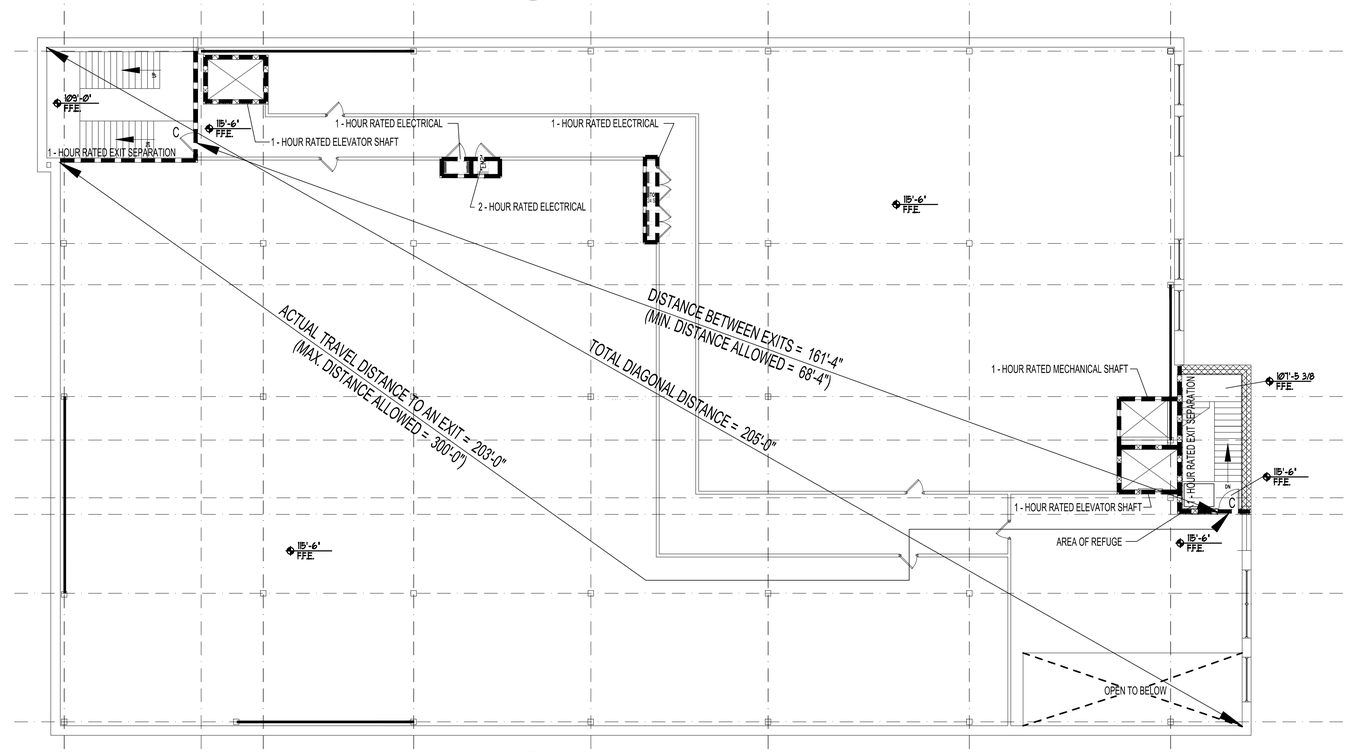
Section 38.3.4.1(2) – This building will have more than 50 occupants above the level of exit discharge and will be required to install a fire alarm system that is compliant with this code.

Section 38.3.5 – Fire extinguishers shall be installed (also see Section 9.7.4).

Section 38.3.6.1(3) – This building is fully sprinkled and is not required to have fire-rated corridors.

Section 38.7.1 – This building will have an occupant load greater than 100 above the level of exit discharge and will be required to have scheduled fire drills in accordance with Section 4.7 of this code.

Section 38.7.2 – Fire extinguishers will be installed in this building and periodic training for designated employees is required.



3 SECOND LEVEL EGRESS PLAN
0 10'-8" SCALE: 3/32" = 1'-0"

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REVISIONS

No.	Description	Date

PERMIT SET

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE
PATIENT CARE CENTER
EXTERIOR SHELL

EGRESS PLANS

Project Number	12502
Date	May 11, 2012
Drawn by	JAP/MAC/JTC
Checked by	LAS

T1.01

Scale

IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY

Code Review – IBC 2009

Please note: This code review was performed in conjunction with a preliminary tenant fit-out. Some of the items may not apply to the Building Shell. See sheet T1.02 for preliminary tenant fit-out layout.

Chapter 3 – Use and Occupancy Classification

Section 303.1 – The Simulation space on the first level has an occupant load of 54 and is classified as Assembly (A-3).

Section 301.1 – The main classification of this University building to be Business (B).

Chapter 4 – Special Detailed Requirements Based on Use and Occupancy

Section 404.1.1 – The opening between floors located in the northeast corner of the building is defined as an "atrium", and connects two floors.

Section 404.3 – An automatic sprinkler system shall be installed throughout the building.

Section 404.4 – A fire alarm system shall be installed (not required per 907.2.14 due to the atrium connecting two stories only – however, it is required by NFPA).

Section 404.5 – A smoke control system is not required due to the atrium connecting two stories only.

Section 404.6 (B) – The atrium space is not required to be separated as a maximum of three stories are allowed to be connected to the atrium space (building has two stories connected). Note: A smoke control system is not required per 404.5.

Section 404.8 – Interior finishes of the atrium space shall not be less than Class B.

Section 404.9 – The travel distance to an exit within the atrium space shall not exceed 200 feet.

Chapter 5 – General Building Heights and Areas

Table 503 – Per this table (assuming Type 5B construction), this building is allowed 40' in height, and two stories of 9,000 square feet each.

Section 504.2 – Due to the automatic sprinkler, this building can be increased to 60' in height and three stores.
Section 506.1 – Per the area increases outlined in Section 506.2 and 506.3, this building is allowed stories of 30,870 square feet each.

A = 9,000 + (9,000 x (387.75/567 - .25 x 1)) + (9,000 x 2)
A = 30,870 square feet

Section 506.4.1 – Total building area to be 61,740 square feet maximum (actual area = 35,973 square feet).

Section 508.1 – The Simulation classroom on the first floor exceeds 50 persons and is classified as Assembly. Therefore, the building is evaluated as Mixed Use. Also refer to Section 508.2.1 and 508.4.

Section 508.2.1 – The Simulation classroom on the first floor cannot be considered an accessory occupancy. The first floor has an area of 17,047 s.f. and the Simulation classroom has an area of 3,121 s.f., which is greater than the 10% allowed. Therefore, the space is required to be separated per Table 508.4.

Table 508.4 – The Assembly area (Simulation classroom) located on the first floor is required to be separated from the remainder of the building with a 1-hour rated assembly (sprinkled building).

Chapter 6 – Types of Construction

Table 601 – For purposes of determining area, and height limitations, it is assumed this building will be Type 5 (B) construction.

Table 602 – The fire separation distance of all exterior walls is greater than 10 feet. Therefore, there is no fire resistance rating required in this Table.

Chapter 7 – Fire and Smoke Protection Features

Table 705.8 – The minimum fire separation distance is 20 feet (west side). Therefore, there is no limit to the amount of wall openings (unprotected, sprinkled).

Section 705.8.2 – The second floor windows on the west side are required to be protected openings (per 705.8.6). Per the exception in this section, the building will be fully sprinkled and the exterior openings shall be protected with water curtains by the sprinkler system.

Section 705.8.6 – The second floor window openings on the west side are within 15' vertically of the adjacent building and are required to be protected (see section 705.8.2).

Section 705.8.5 – Openings in exterior walls shall be separated by 36" minimum between floors (Figure 705.8.5(1)).
Section 705.11 (1) – A parapet is not required on the exterior walls due to the absence of a required fire rating (see Table 602).

Section 708.4 – Shaft enclosures shall have a fire-resistance rating of not less than 1-hour (connecting less than 4 stories).

Section 708.14.1 – Enclosed elevator lobbies are not required as the elevators do not connect more than 3 stories.

Section 709.1(4) – Corridor walls are not required to be separated (see Section 1018.1).

Section 711.1 – Smoke partitions are not required by this code. However, they are required for the "communicating space" as described in the NFPA 2009 code. Refer to the Code Review for the NFPA 2009 code.

Section 717.4.3 – Draftstopping shall be installed in the sloped roof areas to limit square footage to 3,000 square feet. (Note: A sprinkler system may be installed in the attic areas to eliminate the draftstopping.

Chapter 9 – Fire Protection Systems

Section 903 – A sprinkler system is not required by Table 903.2. However, a sprinkler system will be installed in this building and comply with all the provisions of this chapter in the code.

Section 906 – Portable fire extinguishers shall be installed on each floor of this building. Refer to the Egress plans for exact locations. Refer to the specifications for type and size of extinguishers.

Section 907 – A Fire Alarm System is required by Table 907.2 (Business occupancy with more than 100 occupants on the second level), and will comply with all the provisions of this chapter in the code.

Chapter 10 – Means of Egress

Section 1003.2 – The ceiling height in the Means of Egress shall not be less than 7'-6" (except for the allowable projections in Section 1003.3.1).

Section 1003.3.1 – The stair located at the southwest corner of the building protrudes below the ceiling height. A barrier shall be provided as shown in Figure 1003.3.1(2) to maintain headroom at 80".
Section 1004 – The Occupant Load (per Table 1004.1.1 and section 1004.7) is as follows:

Mechanical Space (Basement): 2,412 s.f. / 300 s.f. = 9 persons

Simulation Classroom (1st floor): 54 persons (actual number of stations and instructors)
Business area (1st floor): 13,103 s.f. / 100 s.f. = 132 persons

Business area (2nd floor): 16,253 s.f. / 100 s.f. = 163 persons

Total Occupant Load = 304 persons

Section 1004.3 – The Simulation classroom shall have the occupant load posted as required.

Section 1004.5 – Egress convergence occurs at the north exit (basement access). The exit is sized to accommodate the added occupant load.

Section 1004.7 – The Simulation classroom is defined as an Assembly occupancy (54 persons) based on the actual number of stations and instructors.

Section 1005.1 – The minimum width of the stairways from the second floor:

163 persons x .3 inches = 48.9 inches
48.9 inches / 2 = 24.45 inches

(Note: Per Section 1009.1, the minimum width is 44 inches)

The minimum width of the stairway out of the basement:

9 persons x .3 inches = 2.7 inches

(Note: Per Section 1009.1, the minimum with is 36 inches)

Section 1007.1 – Two exits are required by Section 1015.1 and 1021.1, therefore two Accessible Means of Egress are required.

Section 1007.2.1 – Since this building is under four stories, an elevator is not required to be an Accessible Means of Egress.

Section 1007.3(2) and (3) – The 48" width of the stairway is not required due to the sprinkler system. The area of refuge is not required due to the sprinkler system.

Section 1007.8 – Two-way communication systems shall be provided at the elevator landings on the second floor.

Section 1008.1.1 – All doors within the means of egress shall be 36" doors with a clear width of 32" minimum.
Section 1008.1.6 – Landings (or floors) on each side of the doors shall have a minimum length of 44" and a width at least as wide as the stairway.

Section 1008.1.7 – All thresholds shall be ADA compliant.

Section 1008.1.8 – The space between the doors in the airlock at the northeast entrance shall be 7'-0" (48" + 36" door width).

Section 1008.1.9.1 – All door hardware shall be compliant with this section.

Section 1009.1 – The stairways from the second floor shall be 44" wide. The stairway from the basement floor shall be 36" (exception #1).

Section 1009.2 – The headroom at all stairways shall be 80" minimum (see also Section 1003.3.1).

Section 1009.4.2 – All stairs shall have a maximum stair riser of 7" and a minimum tread depth of 11".

Section 1009.4.4 – The stair risers and treads shall not exceed 3/8" in uniformity.

Section 1009.7 – The vertical rise between landings does not exceed 12'-0".

Section 1009.12 – Stairways shall have handrails on both sides of the stair.

Section 1009.13 – Since this building does not exceed 3 stories in height, a stairway to the roof is not required (a fixed roof access ladder is provided).

Section 1009.13.2 – The roof hatch is not located within 10 feet of any roof edge.

Section 1009.14 – The elevator equipment is located on the basement level and on the first floor. The roof does not contain any elevator equipment.

Section 1010.2 – Exterior ramps shall not exceed 1:12 slope in the direction of travel.

Section 1010.4 – Exterior ramps shall not exceed 30" in vertical rise between landings.

Section 1010.5.1 – There are no Means of Egress ramps. The width between handrails shall be 36".

Section 1010.6.3 – The exterior ramps are part of the accessible route and shall have landing lengths of 60".

Section 1010.8 – Exterior ramps shall have handrails on both sides of the ramp.

Section 1010.10 – Guardrails shall be provided as required (also see Section 1013).

Section 1011.1 – Exit sign locations are shown on the Electrical plans (also refer to the Specifications).

Section 1012.1 – Handrails shall be installed on both sides of the stairways and exterior ramps.

Section 1012.2 – The handrail height (as measured by this section) shall be 34".

Section 1013.1 – Guards shall be installed at the stairways and exterior ramps that are more than 30" above the adjacent grade or floor. In addition, there are 42" high guards around the floor opening located at the northeast corner of the building (Communicating space per NFPA / Atrium space per IBC). The exterior loading dock is not required to have a guard as the change in elevation is less than 30".

Section 1013.1.1 – The glass guardrails shall comply with this section and section 2407.

Section 1013.2 – Guards shall be 42" high.

Section 1013.3 – The opening limitations in the guards shall comply with this section.

Section 1014.2 – One of the Means of Egress out of the Simulation classroom is through an intervening space. However, per Exception #1, the adjoining space is accessory to the main space.

Section 1014.2.4.3 – On the first floor, there is a suite (no patient sleeping rooms) of rooms, and the travel distance does not exceed 100' (actual travel distance = 85'-10" feet).

Section 1014.3(1) – The Common Path of Travel shall not exceed 100' (building is sprinkled).

Section 1015.1 – Two exits are required out of the building. In addition, per Table 1015.1, two exits are required out of the Simulation classroom on the first floor (Occupant load is 54 persons in the Simulation classroom).

Section 1015.1.1 – Three exits are not required as the Occupant Load for the building does not exceed 500 persons.

Section 1015.2.1(2) – The overall diagonal of the building is 205'. The exits are required to be a minimum of 1/3 of the overall diagonal distance apart (68'-4"). See Egress Plan for location of exits.

Section 1016.1 – Per Table 1016.1, the Exit Access Travel Distance shall not exceed 300' for the Business areas (building is sprinkled) and 250' for the Assembly area on the first floor (Simulation classroom).

Section 1017.2 – Aisle widths shall be 36" minimum.

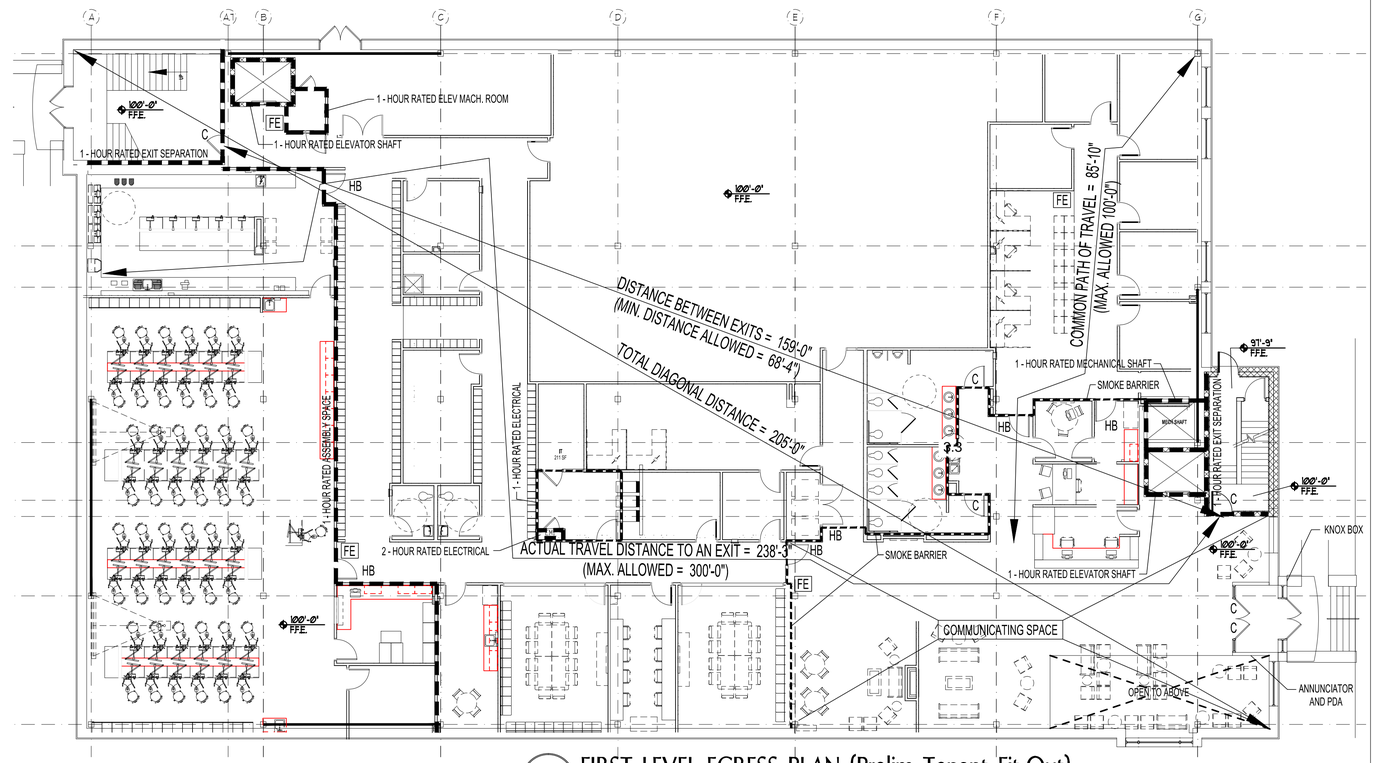
Section 1018.1 – Per Table 1018.1, due to the sprinkler system in the building, the corridors are not required to be fire rated.
Section 1018.2 – The minimum corridor width shall be 44".

Section 1018.4(2) – Dead end corridors shall not exceed 50'.

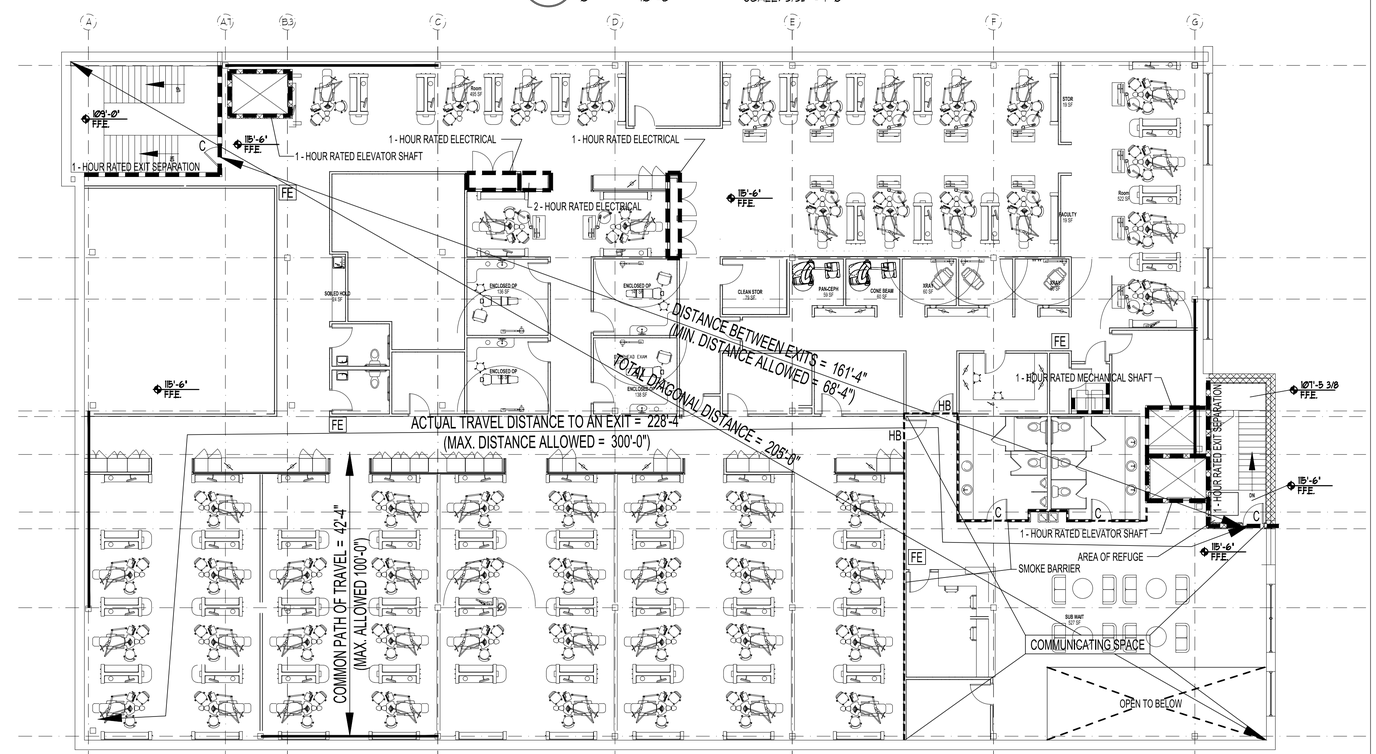
Section 1021.1 – Per Table 1021.1, the Occupant Load for the building does not exceed 500 persons per floor and is therefore required to have two exits from each floor.

Section 1021.2 – Per Table 1021.2, the Basement level is allowed to have one exit (less than 49 occupants and a travel distance less than 100').

Section 1022.1 – Both interior exit stairways are separated with a fire-resistance rating of 1-hour (less than 4 stories) and lead directly to the exterior.



1 FIRST LEVEL EGRESS PLAN (Prelim Tenant Fit-Out)
0 10'-8" SCALE: 3/32" = 1'-0"



2 SECOND LEVEL EGRESS PLAN (Prelim Tenant Fit-Out)
0 10'-8" SCALE: 3/32" = 1'-0"

PORT ▪ CITY ARCHITECTURE
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STATE OF MAINE

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BECKER
Vincent A. Ditorio Inc.
E.D.E. INC. MECHANICAL ENGINEERS
Site Design Associates
23 Whitney Way
Topsham, Maine 04086
207-449-4275

REVISIONS

No.	Description	Date

PERMIT SET

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE
PATIENT CARE CENTER
EXTERIOR SHELL
EGRESS PLANS

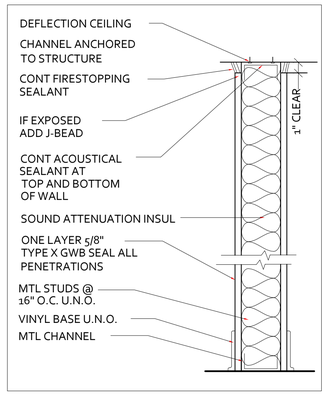
Project Number	12502
Date	May 11, 2012
Drawn by	JAP/MAC/JTC
Checked by	LAS

T1.02

Scale

IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY

IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY

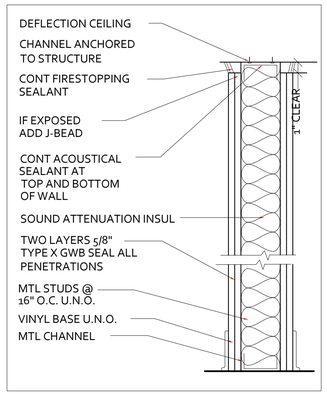


3 5/8" METAL STUD-FULL HGT
ONE HOUR RATED UL U495 — 1A

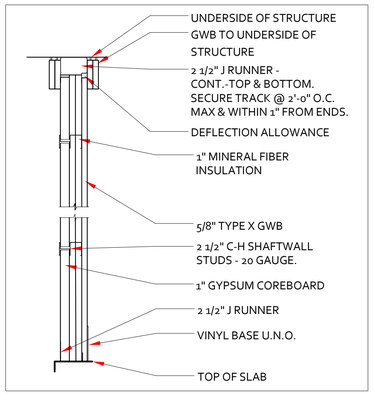
7 5/8" METAL STUD-FULL HGT
ONE HOUR RATED UL U495 — 1B

3 5/8" METAL STUD-FULL HGT
NOT RATED — AA

3 5/8" METAL STUD-FULL HGT
PROVIDE SEALANT BETWEEN GWB AND CEILING STRUCTURE — SB

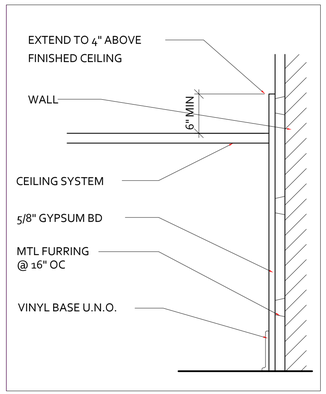


3 5/8" METAL STUD-FULL HGT
TWO HOUR RATED UL U411 — 2A

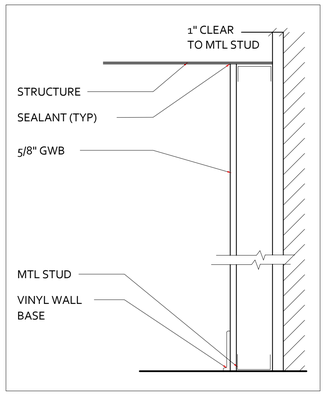


2 1/2" SHAFT WALL
1 HOUR RATED UL# U469 WALL ASSEMBLY — 1S

2 1/2" SHAFT WALL WITH (2) LAYERS
5/8" TYPE X GWB
2 HOUR RATED UL# U438 WALL ASSEMBLY — 2S



FURRED WALL W/ 3" MTL STUD — FA



FURRED WALL W/ 3" MTL STUD
W/ 5/8' GWB (NO INSULATION) — NA

1 WALL TYPES
1/2" = 1'-0"

PORT CITY ARCHITECTURE

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Kahler Slater experience design

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Fax: (781) 890-4611
E-Mail: edeinc@earthlink.net
ALL ASPECTS OF MECHANICAL ENGINEERING

Site Design Associates
23 Whitney Way
Topsham, Maine 04086
207-449-4275

REVISIONS

No.	Description	Date

PERMIT SET

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

WALL TYPES

Project Number	12502
Date	05.10.12
Drawn by	Author
Checked by	Checker

T1.03

Scale 1/2" = 1'-0"

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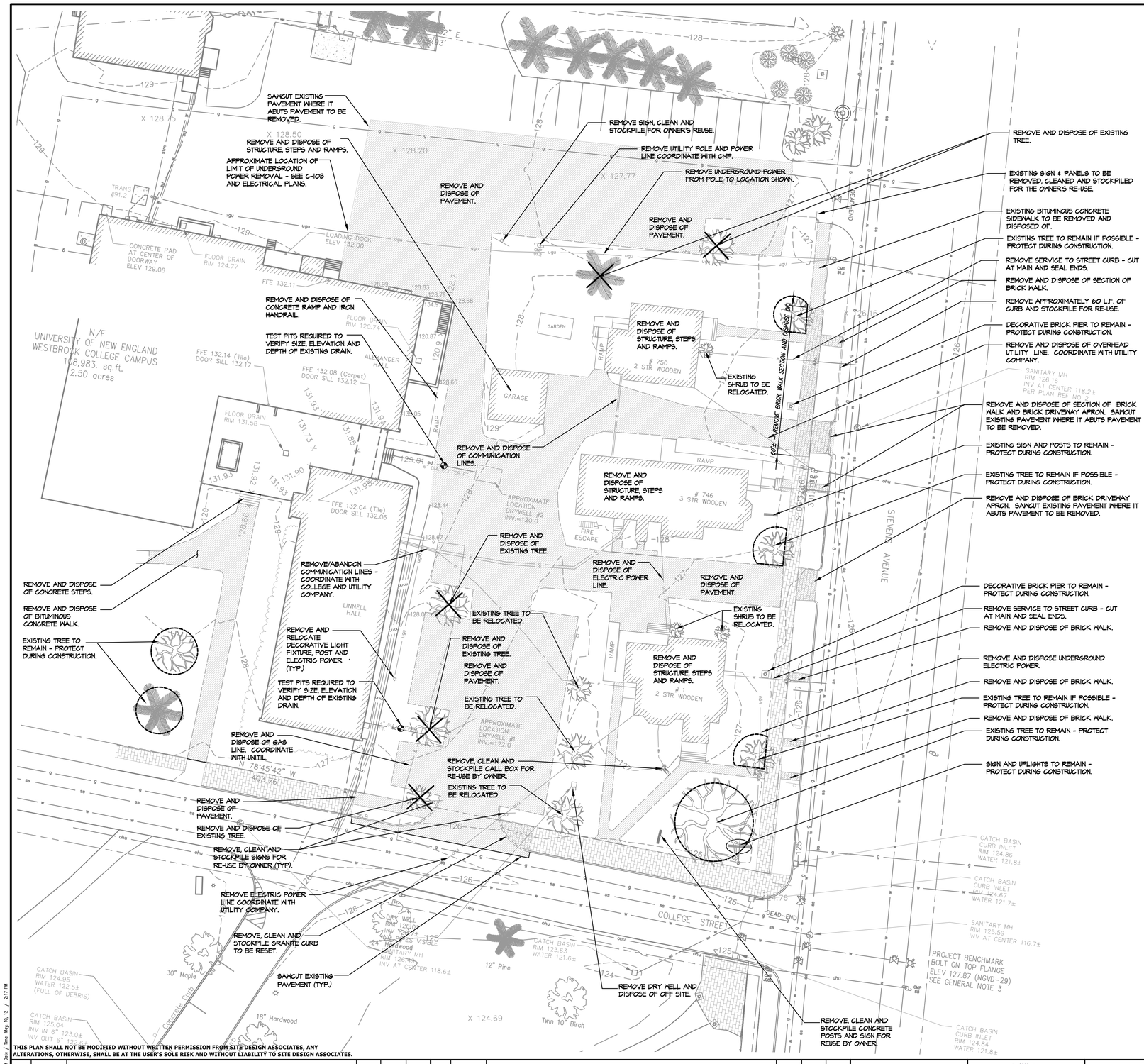


GENERAL PROJECT NOTES:

1. PRIOR TO THE START OF ANY EXCAVATION FOR THE PROJECT, BOTH ON-SITE AND OFF-SITE, THE CONTRACTOR SHALL NOTIFY DIGSAFE AND BE PROVIDED WITH A DIGSAFE NUMBER INDICATING THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND CLEARLY MARKED.
2. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL DRAWINGS AND SITE CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL PERMITS AND APPROVALS AND CONDUCT THE WORK IN ACCORDANCE WITH THESE PERMITS AND APPROVALS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL ADDITIONAL PERMITS, STREET OPENINGS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK.
4. ANY DISCREPANCIES BETWEEN DRAWINGS AND SITE CONDITIONS AS WELL AS MANUFACTURER'S RECOMMENDATIONS SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING OR CONSTRUCTION.
5. WHERE EXISTING CONDITIONS LIE UNDER OR ARE IMPINGED UPON BY PROPOSED BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE REMOVED, ADJUSTED, ABANDONED AND/OR CAPPED OR DEMOLISHED, AS REQUIRED.
6. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL MEANS, METHODS AND TECHNIQUES EMPLOYED TO PERFORM WORK SHOWN ON THESE PLANS.
7. CONTRACTOR SHALL REFER TO DRAWINGS C-100 THRU C-104, C-300 THRU C-303, ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
8. THE CONTRACTOR SHALL LIMIT THE CONSTRUCTION ACTIVITY TO THE WORK SHOWN ON THE PLANS, UNLESS OTHERWISE AUTHORIZED BY THE OWNERS REPRESENTATIVE.

EXISTING CONDITIONS AND DEMOLITION NOTES:

1. THE CONTRACTOR SHALL NOTIFY DIGSAFE PRIOR TO ANY DEMOLITION AND CONSTRUCTION ACTIVITIES.
2. THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT GUARANTEED BY THE OWNER OR THE ENGINEER. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, AND REPAIR EXISTING UTILITIES AS REQUIRED TO COMPLETE THE WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK, EXCEPT FOR WORK NOTED TO BE COMPLETED BY OTHERS.
5. ANY EXISTING PROPERTY DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO MATCH ITS ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO CHARGE TO THE OWNER OR ENGINEER.
6. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, UTILITIES, LANDSCAPE AND PAVEMENT ON THE SITE WITHIN THE AREAS DESIGNATED FOR DEMOLITION UNLESS SPECIFICALLY IDENTIFIED TO REMAIN. ITEMS TO BE REMOVED INCLUDE, BUT ARE NOT LIMITED TO BUILDING STRUCTURES, FOUNDATIONS, PAVEMENT, CURBING, LIGHT POLES & BASES, UTILITIES SUCH AS, BUT NOT LIMITED TO: WATER, SEWER, ELECTRIC, GAS, COMMUNICATION, CONCRETE PADS, STAIRS, RETAINING WALLS, DRAINAGE STRUCTURES, SIGNAGE, TREES AND LANDSCAPING.
7. ALL MATERIALS DESIGNATED FOR REMOVAL/DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS, ORDINANCES AND CODES.
8. PAVEMENT REMOVAL LIMITS ARE SHOWN FOR THE CONTRACTORS CONVENIENCE ONLY. ADDITIONAL PAVEMENT REMOVAL MAY BE REQUIRED DEPENDING ON THE CONTRACTOR'S OPERATION. CONTRACTOR SHALL VERIFY FULL LIMITS OF PAVEMENT PRIOR TO BIDDING.
9. THE CONTRACTOR SHALL COORDINATE THE REMOVAL, RELOCATION AND DISPOSAL OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.
10. THE CONTRACTOR SHALL VERIFY THAT ABATEMENT OF THE EXISTING BUILDING AREAS TO BE DEMOLISHED HAS BEEN COMPLETED PRIOR TO DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS AND TECHNIQUES TO COMPLETE THE BUILDING DEMOLITION.
11. TREES TO REMAIN WITHIN THE LIMITS OF WORK SHALL BE TAGGED PRIOR TO CONSTRUCTION BY THE LANDSCAPE ARCHITECT AND PROTECTED BY THE CONTRACTOR. TREES TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR AND REPLACED BY A TREE OF EQUAL SIZE OR DOLLAR VALUE.
12. ALL MATERIALS DESIGNATED FOR STOCKPILING OR RELOCATION SHALL BE CLEANED, STOCKPILED AND PROTECTED IN AN AREA APPROVED BY THE OWNER'S REPRESENTATIVE UNTIL RELOCATION TAKES PLACE.
13. SAWCUT AND REMOVE PAVEMENT ONE FOOT OFF PROPOSED EDGE OF PAVEMENT OR CURB LINE IN ALL AREAS WHERE PAVEMENT TO BE REMOVED ABUTS EXISTING PAVEMENT TO REMAIN.
14. SCREENED IMAGES REPRESENT EXISTING CONDITIONS.

LEGEND:

EXISTING		PROPOSED
	STORM DRAIN MANHOLE	
	STORM DRAIN CATCH BASIN	
sd	STORM DRAIN LINE	SD
	STORM DRAIN CULVERT	
	UNDERDRAIN	UD
	ROOF DRAIN	RD
	SANITARY SEWER MANHOLE	
	SANITARY CLEAN OUT	
ss	SANITARY SEWER LINE	SS
w	WATERLINE	W
	HYDRANT	
	WATER LINE GATE VALVE	
	WATER LINE SHUT-OFF VALVE	
c	COMMUNICATION LINE	
e	ELECTRIC LINE	E
	ELECTRIC MANHOLE	
	ELECTRIC BOX	
	ELECTRIC TRANSFORMER	
g	GAS LINE	G
	TREE	
	LIGHT POLE	
	BOLLARD LIGHT	
t	TELEPHONE LINE	T
	TELEPHONE MANHOLE	
	UTILITY POLE	
	BUILDING	
	EDGE OF PAVEMENT	
	GRANITE CURB	
	SIGN	
	PROPERTY LINE	
	RIGHT OF WAY LINE	
	EMERGENCY CALL BOX	
+135.05 X 128.50	SPOT ELEVATION	+ 128
128	INDEX CONTOUR	128
128	CONTOUR	128

DEMOLITION LEGEND:

EXISTING TREE TO BE PROTECTED

PAVEMENT TO BE REMOVED

EXISTING TREE TO BE REMOVED

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SITE DESIGN ASSOCIATES, ANY ALTERATIONS, OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SITE DESIGN ASSOCIATES.

Drawing Name: K:\UNE Dentistry\Dwgs\Site Plan | Plot Date / Time: May, 16, 12 / 2:17 PM

REV.	DATE	STATUS	BY	CHKD.	APPD.
C	5/11/12	ISSUED FOR BUILDING PERMIT	DEPT.	TWS	TWS
B	4/17/12	SUBMITTED TO THE CITY OF PORTLAND FOR LEVEL 3 REVIEW	DEPT.	TWS	TWS
A	4/13/12	ISSUED FOR DESIGN DEVELOPMENT	DEPT.	TWS	TWS

REV.	DATE	STATUS	BY	CHKD.	APPD.

STATE OF MAINE THOMAS W. SHUMER NO. 10084 LICENSED PROFESSIONAL ENGINEER 5-11-12

Site Design Associates
Consulting Engineering & Land Planning
23 Whitney Way Topsham, Maine 04086 Tel: (207) 449-4275

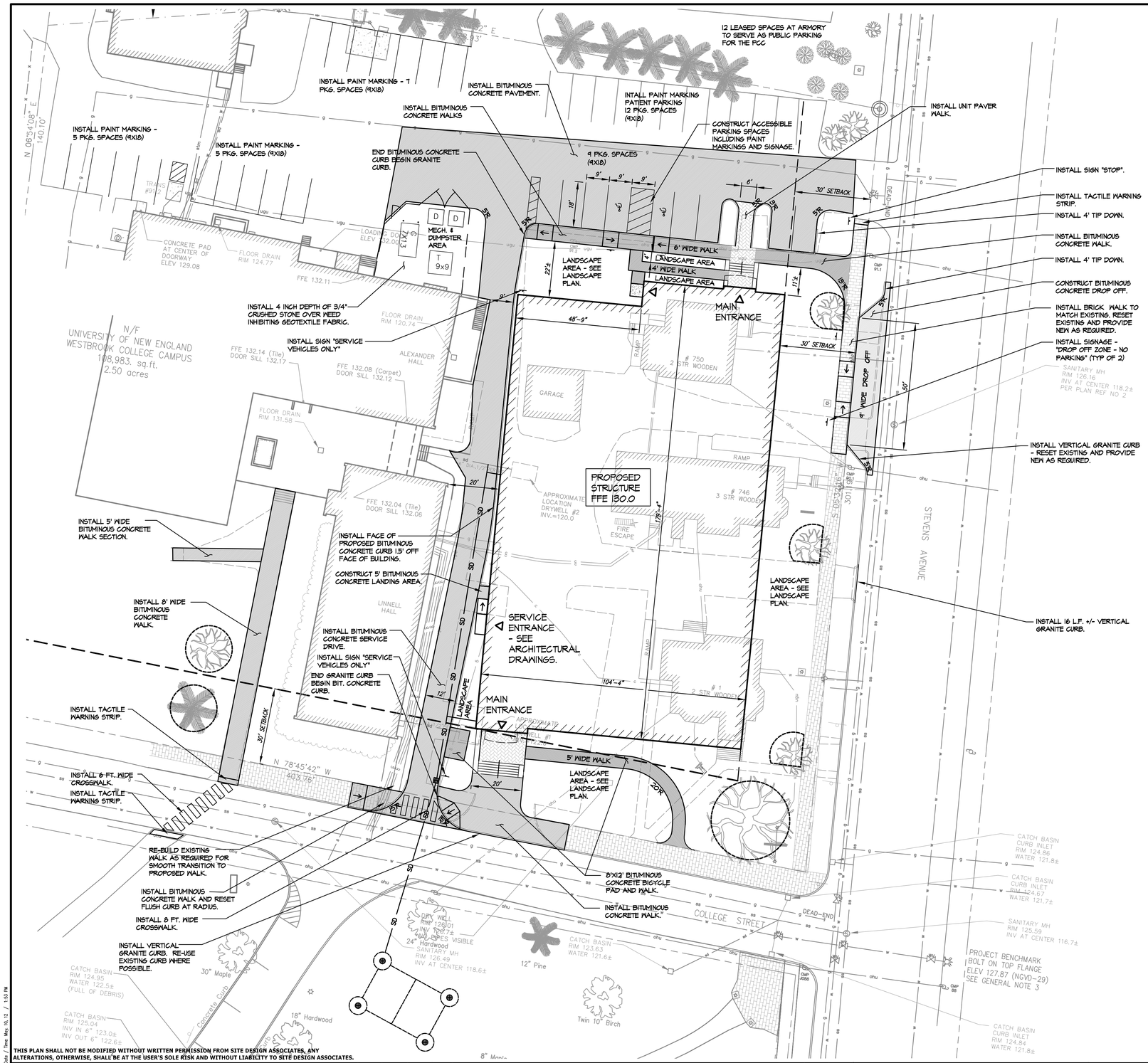
CLIENT:
PORT CITY ARCHITECTURE
65 NEWBURY STREET, PORTLAND, MAINE 04101

DESIGN: DEPT.
DRAWN: DEPT.
CHKD: TWS
DATE: JAN. 2012
SCALE: 1"= 20'

PROJECT: PATIENT CARE CENTER
UNIVERSITY OF NEW ENGLAND
STEVENS AVENUE, PORTLAND, MAINE

EXISTING CONDITIONS & DEMOLITION PLAN

PROJ. NO. –
DWG. NO. C-100
REV. C



SITE PLAN NOTES:

1. ALL DIMENSIONS ARE PERPENDICULAR UNLESS OTHERWISE NOTED.
2. DO NOT SCALE DRAWINGS. ANY OMISSIONS IN DIMENSIONING SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
3. SIDEWALKS AND CURBING SHALL BE DESIGNED AND BUILT WITH TIP DOWN RAMPS AT ALL STREET CORNERS, CROSSWALKS AND DRIVEWAYS IN CONFORMANCE WITH THE CITY OF PORTLAND'S TECHNICAL DESIGN STANDARDS AND GUIDELINES.
4. THE CITY OF PORTLAND STANDARD DETAILS SHALL BE USED FOR ALL WORK PERFORMED IN THE TOWN/CITY RIGHT OF WAY.
5. ALL SIGNAGE AND PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE UNIVERSITY OF NEW ENGLAND, MUTCD STANDARDS AND THE CITY OF PORTLAND ORDINANCES.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL STAKE THE LAYOUT FOR APPROVAL BY THE OWNER PRIOR TO CONSTRUCTION.
7. THE CONTRACTORS LICENSED SURVEYOR SHALL ISSUE INTERIM CERTIFICATIONS TO THE OWNER'S REPRESENTATIVE THAT THE SITE IMPROVEMENTS ARE LAYED OUT ACCORDING TO THE PLANS. THE CERTIFICATION SCHEDULE SHALL BE AS FOLLOWS:
   A. INITIAL BUILDING LAYOUT.
   B. FOUNDATION INSTALLATION COMPLETE.
   C. RECORD PLANS OF BUILDING, PAVEMENT & UNDERGROUND UTILITIES.
8. A DIGITAL AUTOCAD FILE WILL BE SUPPLIED TO THE CONTRACTOR FOR LAYOUT PURPOSES UPON REQUEST.
9. THE CONTRACTOR SHALL REFER TO C-100 THRU C-104, C-300, THRU C-303, ARCHITECTURAL, MECHANICAL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING LAYOUT INFORMATION.
11. ELEVATION 130 CIVIL PLANS = ELEVATION 100 ARCHITECTURAL PLANS.

N

LEGEND:

EXISTING		PROPOSED
	STORM DRAIN MANHOLE	
	STORM DRAIN CATCH BASIN	
sd	STORM DRAIN LINE	SD
	STORM DRAIN CULVERT	
	UNDERDRAIN	UD
	ROOF DRAIN	RD
S	SANITARY SEWER MANHOLE	S
	SANITARY CLEAN OUT	
ss	SANITARY SEWER LINE	SS
w	WATERLINE	W
	HYDRANT	
	WATER LINE GATE VALVE	
	WATER LINE SHUT-OFF VALVE	
c	COMMUNICATION LINE	
e	ELECTRIC LINE	E
E	ELECTRIC MANHOLE	
	ELECTRIC BOX	
	ELECTRIC TRANSFORMER	
g	GAS LINE	G
	TREE	
	LIGHT POLE	
	BOLLARD LIGHT	
t	TELEPHONE LINE	T
T	TELEPHONE MANHOLE	
	UTILITY POLE	
	BUILDING	
	EDGE OF PAVEMENT	
	GRANITE CURB	
	SIGN	
	PROPERTY LINE	
	RIGHT OF WAY LINE	
	EMERGENCY CALL BOX	
+135.05 X 128.50	SPOT ELEVATION	+ 128
128	INDEX CONTOUR	128
128	CONTOUR	128

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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REV.	DATE	STATUS	BY	CHKD.	APPD.	REV.	DATE	STATUS	BY	CHKD.	APPD.
C	5/11/12	ISSUED FOR BUILDING PERMIT	DEPT.	TWS	TWS						
B	4/17/12	SUBMITTED TO THE CITY OF PORTLAND FOR LEVEL 3 REVIEW	DEPT.	TWS	TWS						
A	4/13/12	ISSUED FOR DESIGN DEVELOPMENT	DEPT.	TWS	TWS						

STATE OF MAINE
THOMAS W. SAUCIER
NO. 10084
LICENSED
PROFESSIONAL ENGINEER
5-11-12

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CLIENT:
PORT CITY ARCHITECTURE
65 NEWBURY STREET, PORTLAND, MAINE 04101

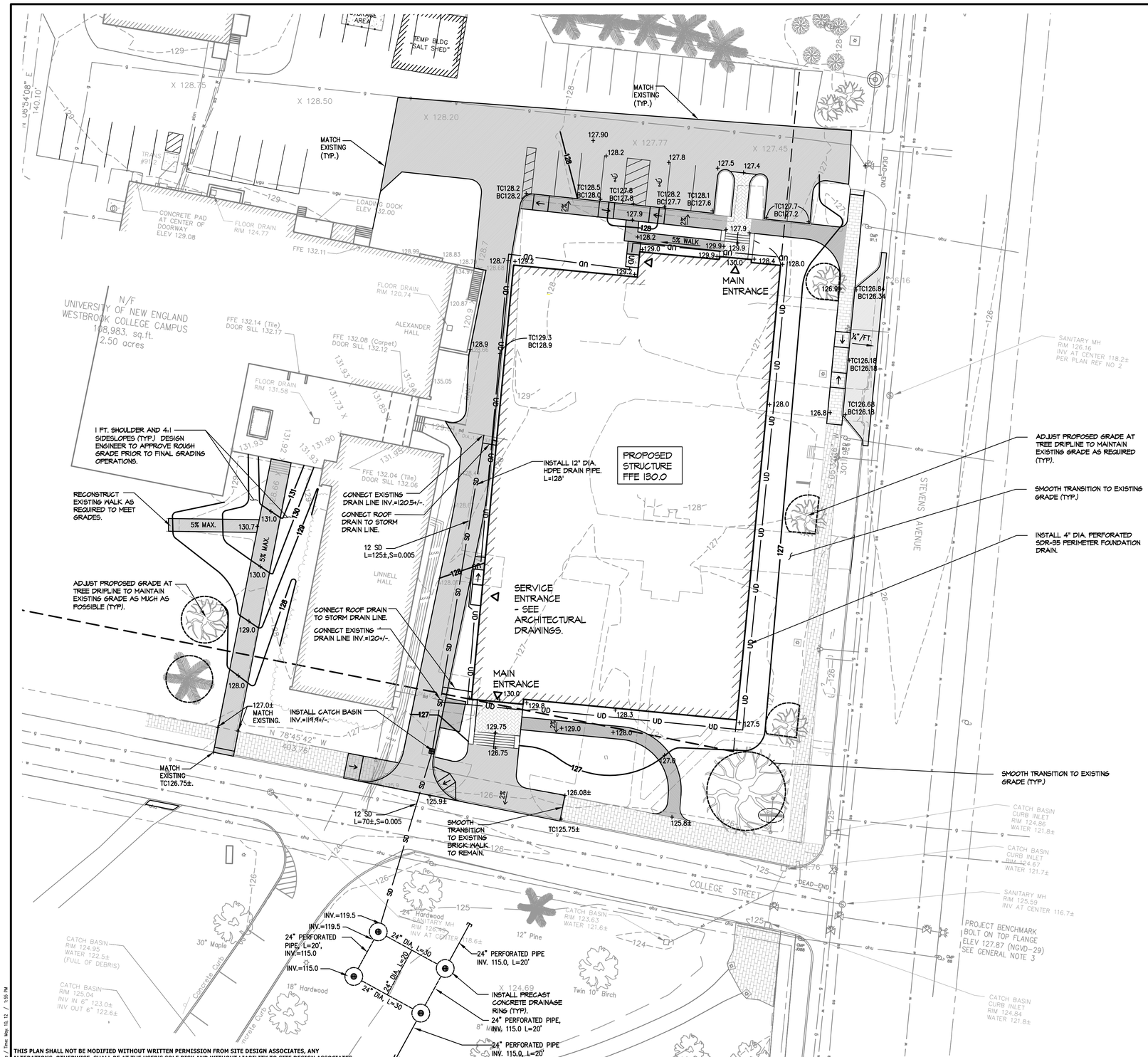
DESIGN: DEPT.
DRAWN: DEPT.
CHKD: TWS
DATE: JAN. 2012
SCALE: 1"= 20'

PROJECT:
PATIENT CARE CENTER
UNIVERSITY OF NEW ENGLAND
STEVENS AVENUE, PORTLAND, MAINE

SITE PLAN

PROJ. NO. –
DWG. NO. C-101
REV. C

Drawing Name: K:\UNE_Dentistry\Dwgs\Site Plan | Plot Date / Time: May. 10, 12 / 1:53 PM



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GRADING & DRAINAGE NOTES:

1. PRIOR TO THE START OF ANY EXCAVATION FOR THE PROJECT BOTH ON AND OFF THE SITE, THE CONTRACTOR SHALL NOTIFY DIGSAFE AND BE PROVIDED WITH A DIGSAFE NUMBER INDICATING THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED.
2. CONTRACTOR SHALL VERIFY EXISTING GRADES AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
3. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AND PLANTING BEDS.
4. CONTRACTOR TO ADJUST EXISTING AND PROPOSED UTILITY ELEMENT MEANT TO BE FLUSH WITH GRADE (CLEAN-OUTS, UTILITY MANHOLES, CATCH BASINS, INLETS, ETC) THAT ARE AFFECTED BY SITE WORK OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON PLANS OR NOT.
5. WHERE PROPOSED GRADES MEET EXISTING GRADES, CONTRACTOR SHALL BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW WORK. PONDING AT TRANSITION AREAS WILL NOT BE ALLOWED.
6. CONTRACTOR SHALL PROVIDE A FINISHED PAVEMENT SURFACE FREE OF LOW SPOTS AND PONDING AREAS.
7. BITUMINOUS CONCRETE ELEVATIONS AT CATCH BASINS TO BE 1/4 INCH ABOVE RIM ELEVATION SHOWN FOR CATCH BASINS.
8. ALL WALKS SHALL PITCH TO DRAIN WITH A MAXIMUM CROSS SLOPE OF 2%.
9. OWNER'S REPRESENTATIVE SHALL APPROVE LAYOUT OF ALL DRAINAGE STRUCTURES PRIOR TO INSTALLATION.
10. ALL DRAINAGE PIPE NOT CALLED OUT ON THE DRAWINGS SHALL BE SMOOTH INTERIOR, CORRUGATED EXTERIOR, HDPE, N-12 AS MANUFACTURED BY ADS.
11. THE CONTRACTOR SHALL INSTALL CATCH BASIN INLET PROTECTION AT ALL CATCH BASIN INLETS WITHIN THE DISTURBED AREA AND BE RESPONSIBLE FOR TAKING ALL NECESSARY EROSION CONTROL MEASURES. SEE SHEET C-300.
12. ALL UNSUITABLE AND UNUSED MATERIALS WHICH CAN NOT BE DISPOSED OF ON SITE SHALL BE REMOVED AND DISPOSED OF OFF SITE BY THE CONTRACTOR IN ACCORDANCE WITH ALL STATE AND LOCAL LAWS.
13. SEE SHEET C-300 FOR EROSION CONTROL NOTES, SEQUENCE AND DETAILS.
14. REFER TO DRAWINGS C-100 THRU C-104 AND C-300 THRU 303 AND THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
15. ELEVATION 130 CIVIL PLANS = ELEVATION 100 ARCHITECTURAL PLANS.

N

LEGEND:

EXISTING		PROPOSED
	STORM DRAIN MANHOLE	
	STORM DRAIN CATCH BASIN	
sd	STORM DRAIN LINE	SD
	STORM DRAIN CULVERT	
	UNDERDRAIN	UD
	ROOF DRAIN	RD
	SANITARY SEWER MANHOLE	
	SANITARY CLEAN OUT	
ss	SANITARY SEWER LINE	SS
w	WATERLINE	W
	HYDRANT	
	WATER LINE GATE VALVE	
	WATER LINE SHUT-OFF VALVE	
c	COMMUNICATION LINE	
e	ELECTRIC LINE	E
	ELECTRIC MANHOLE	
	ELECTRIC BOX	
	ELECTRIC TRANSFORMER	
g	GAS LINE	G
	TREE	
	LIGHT POLE	
	BOLLARD LIGHT	
t	TELEPHONE LINE	T
	TELEPHONE MANHOLE	
	UTILITY POLE	
	BUILDING	FFE 100.00
	EDGE OF PAVEMENT	
	GRANITE CURB	
	SIGN	
	PROPERTY LINE	
	RIGHT OF WAY LINE	
	EMERGENCY CALL BOX	
+135.05 X 128.50	SPOT ELEVATION	+ 128
128	INDEX CONTOUR	128
128	CONTOUR	128

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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STATE OF MAINE
THOMAS W. SAUCIER
NO. 10004
LICENSED
PROFESSIONAL ENGINEER
5-11-12

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CLIENT:
PORT CITY ARCHITECTURE
65 NEWBURY STREET, PORTLAND, MAINE 04101

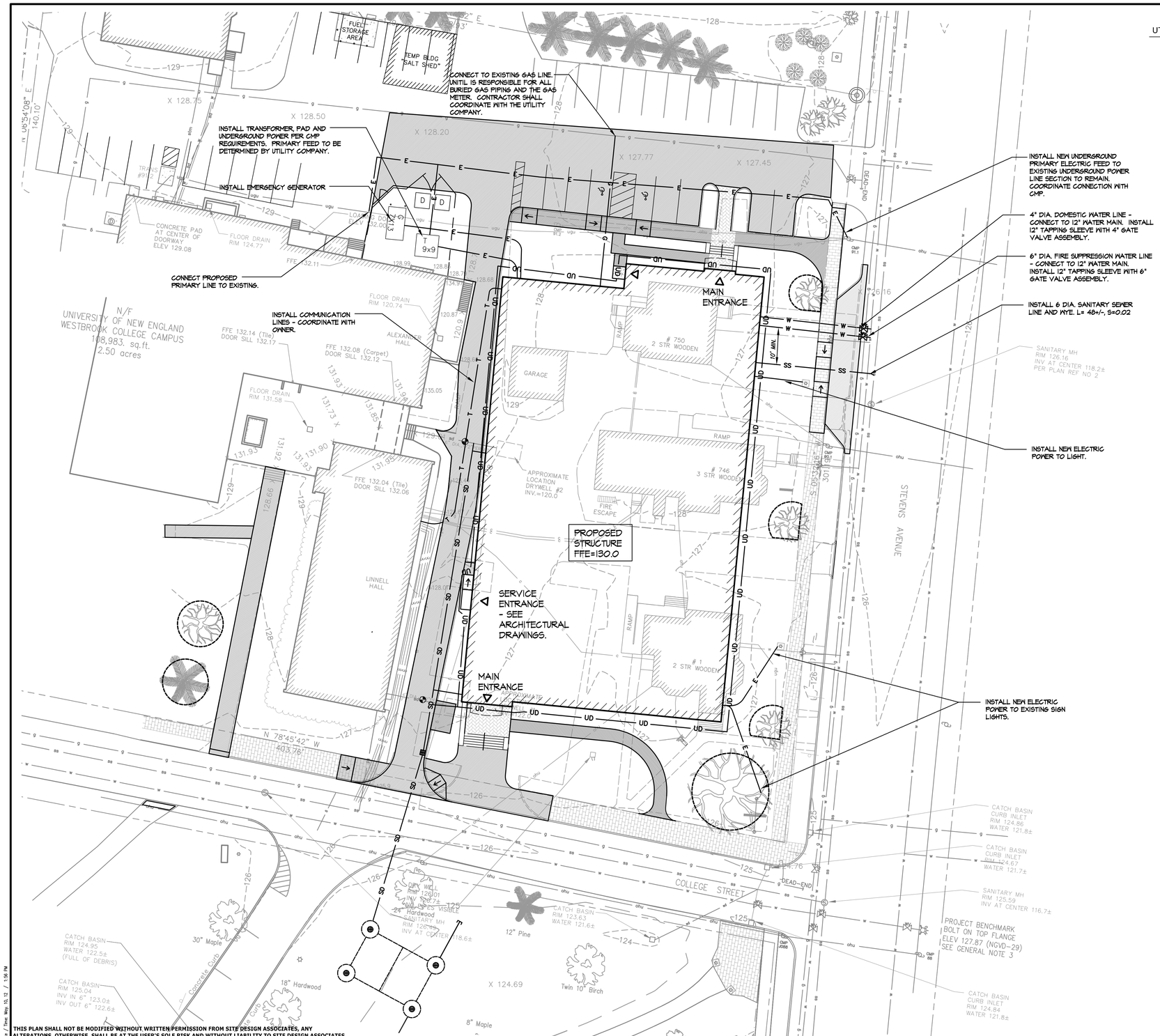
DESIGN: DEPT.
DRAWN: DEPT.
CHKD: TWS
DATE: JAN. 2012
SCALE: 1"= 20'

PROJECT:
PATIENT CARE CENTER
UNIVERSITY OF NEW ENGLAND
STEVENS AVENUE, PORTLAND, MAINE

GRADING, DRAINAGE & EROSION CONTROL PLAN

PROJ. NO. –
DWG. NO. C-102
REV. C

Drawing Name: K:\UNE Dentistry\Dwgs\Site Plan | Plot Date / Time: May 10, 12 / 1:55 PM



UTILITY NOTES:

1. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF NEW UTILITIES WITH THE APPROPRIATE UTILITY COMPANY.
2. THE CONTRACTOR SHALL VERIFY ACTUAL FIELD LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
3. ALL UTILITY WORK SHALL BE IN CONFORMANCE WITH THE CITY OF PORTLAND AND INDIVIDUAL UTILITY COMPANY STANDARDS RESPECTIVELY.
4. ALL WATER SERVICE SHALL BE COORDINATED WITH THE PORTLAND WATER DISTRICT. CONSTRUCTION, MATERIALS, TESTING AND CHLORINATION SHALL BE IN ACCORDANCE WITH DISTRICT STANDARDS. WATER VALVES TO BE LEFT OPEN.
5. CONTRACTOR SHALL EXCAVATE TEST PITS AT ALL POINTS WHERE PROPOSED UTILITIES ARE TO CROSS EXISTING UTILITIES. THIS INFORMATION SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL PROVIDE CONDUIT OF SUITABLE SIZE WITH PULL LINES FOR ALL UNDERGROUND WIRING. SEE ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS.
7. LIGHT POLE BASES TO BE LOCATED 36" MIN. FROM EDGE OF WALKS, DRIVES AND PARKING AREAS. LIGHT POLES SHOWN ON THIS PLAN FOR LOCATION ONLY REFER TO ELECTRICAL DRAWINGS FOR ALL OTHER LIGHTING AND ELECTRICAL INFORMATION..
8. ALL MANHOLES AND CATCH BASINS SHALL BE PROVIDED WITH FLEXIBLE BOOT CONNECTIONS FOR PIPES.
9. PROPOSED CONNECTIONS INTO EXISTING MANHOLES AND CATCH BASINS SHALL BE CORE DRILLED AND A FLEXIBLE BOOT INSTALLED WITH A PRESS WEDGE SYSTEM FOR WATER TIGHTNESS.
10. PIPE MATERIAL FOR 4" AND 6" WATER LINES SHALL BE CLASS 52 DOUBLE CEMENT LINED DUCTILE IRON.
11. MINIMUM COVER OVER WATER LINE SHALL BE 5'-6".
12. GAS LINE SHALL BE INSTALLED PER UTILITY COMPANY (UNITIL) STANDARDS.
13. PIPE MATERIAL FOR SANITARY SEWER SHALL BE SDR-35PVC.
14. WHERE THERE IS LESS THAN 6'-6" COVER OVER SEWER LINES, PLACE 2 LAYERS OF 2" THICK RIGID INSULATION OVER PIPE FOR FULL WIDTH OF TRENCH. INSULATION JOINTS SHALL BE STAGGERED.
15. THE OWNER SHALL SUBMIT AS-BUILT RECORD DRAWINGS TO THE CITY FOR ANY UTILITY SERVICE THAT IS UPGRADED OR REPLACED DURING CONSTRUCTION.
16. REFER TO DRAWING C-102 FOR STORM DRAIN INFORMATION.
17. CONTRACTOR SHALL REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR EXACT LOCATION, CONFIGURATION, AND DETAILS OF UTILITIES AND WHERE THEY ENTER THE BUILDING.
18. CONTRACTOR SHALL REFER TO C-100 THRU C-104, C-300 THRU C-302, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
19. ELEVATION 130 CIVIL PLANS = ELEVATION 100 ARCHITECTURAL PLANS.

LEGEND:

EXISTING		PROPOSED
	STORM DRAIN MANHOLE	
	STORM DRAIN CATCH BASIN	
sd	STORM DRAIN LINE	SD
	STORM DRAIN CULVERT	
	UNDERDRAIN	UD
	ROOF DRAIN	RD
	SANITARY SEWER MANHOLE	
	SANITARY CLEAN OUT	
ss	SANITARY SEWER LINE	SS
w	WATERLINE	W
	HYDRANT	
	WATER LINE GATE VALVE	
	WATER LINE SHUT-OFF VALVE	
c	COMMUNICATION LINE	
e	ELECTRIC LINE	E
	ELECTRIC MANHOLE	
	ELECTRIC BOX	
	ELECTRIC TRANSFORMER	
g	GAS LINE	G
	TREE	
	LIGHT POLE	
	BOLLARD LIGHT	
t	TELEPHONE LINE	T
	TELEPHONE MANHOLE	
	UTILITY POLE	
	BUILDING	
	EDGE OF PAVEMENT	
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	RIGHT OF WAY LINE	
	EMERGENCY CALL BOX	
+135.05 X 128.50	SPOT ELEVATION	+ 128
128	INDEX CONTOUR	128
128	CONTOUR	128

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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STATE OF MAINE — THOMAS W. SAUNDERS — NO. 10008 — LICENSED — PROFESSIONAL ENGINEER — 5-11-12

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Consulting Engineering & Land Planning
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CLIENT:
PORT CITY ARCHITECTURE
65 NEWBURY STREET, PORTLAND, MAINE 04101

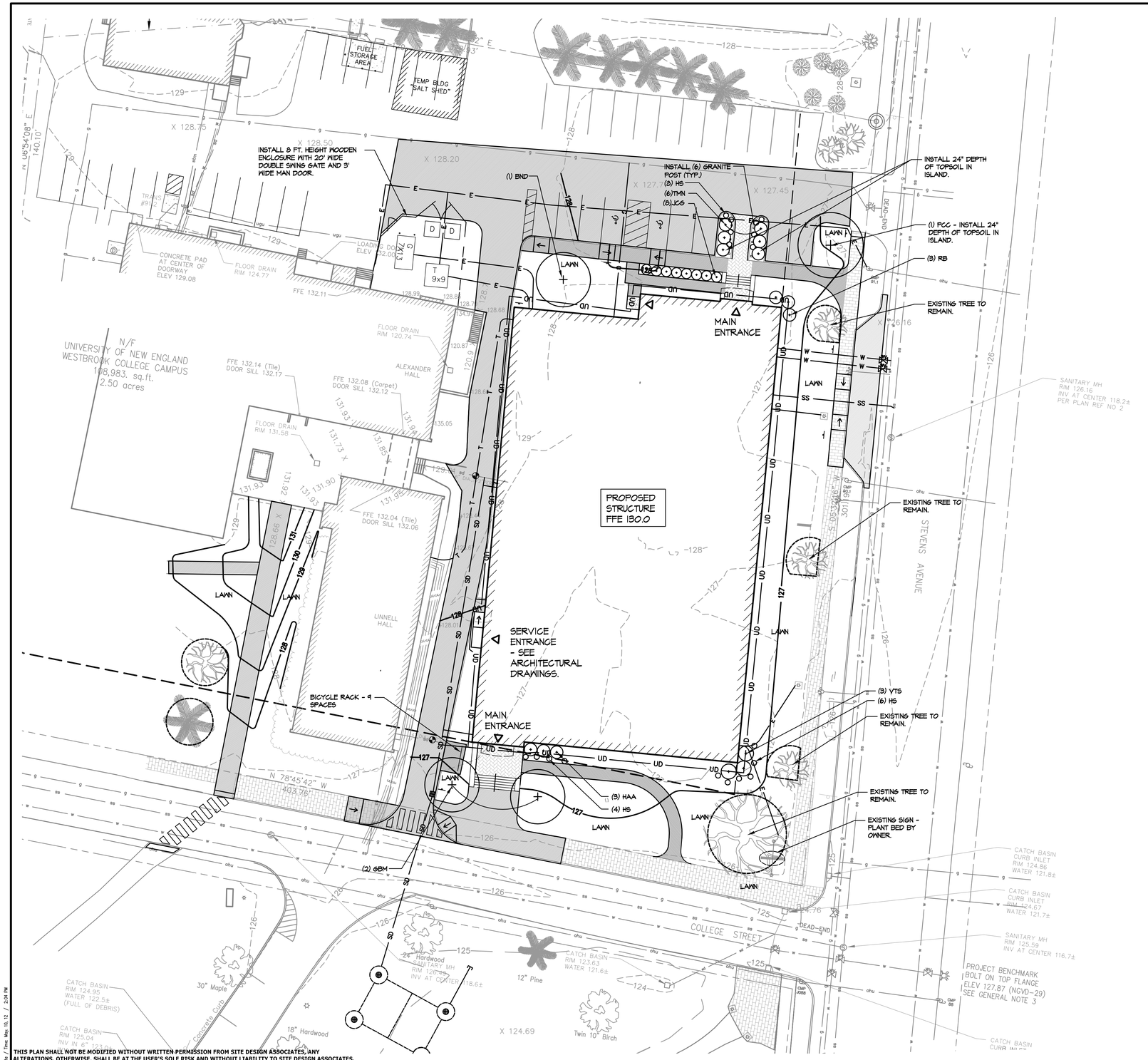
DESIGN: DEPT.
DRAWN: DEPT.
CHKD: TWS
DATE: JAN. 2012
SCALE: 1"= 20'

PROJECT:
PATIENT CARE CENTER
UNIVERSITY OF NEW ENGLAND
STEVENS AVENUE, PORTLAND, MAINE

SITE UTILITIES PLAN

PROJ. NO. –
DWG. NO. C-103
REV. C

Drawing Name: K:\UNE Dentistry\Dwgs\Site Plan | Plot Date / Time: May. 10, 12 / 1:56 PM



LANDSCAPE NOTES:

1. CONTRACTOR SHALL VERIFY ALL TREE REMOVALS WITH LANDSCAPE ARCHITECT PRIOR TO START OF CONSTRUCTION. ANY TREES MARKED TO REMAIN THAT ARE DAMAGED OR REMOVED DURING CONSTRUCTION, SHALL BE REPLACED WITH TREES EQUALING THE SPECIES AND CALIPER LOST.
2. LANDSCAPE CONTRACTOR IS ENCOURAGED TO PROVIDE THE LANDSCAPE ARCHITECT WITH CONCERNS AND/OR SUGGESTIONS WITH REGARDS TO PROPOSED PLANT MATERIAL SELECTION PRIOR TO PLACING A PURCHASE ORDER.
3. THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE ALL PLANTINGS SHOWN GRAPHICALLY ON THIS DRAWING. CLARIFY ANY DISCREPANCIES WITH THE LANDSCAPE ARCHITECT PRIOR TO PRICING ANY PLANT MATERIAL.
4. ALL PLANT MATERIALS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S "AMERICAN STANDARD OF NURSERY STOCK".
5. ALL PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE AT THE SITE. PLANTS WHICH ARE REJECTED SHALL BE REMOVED FROM THE SITE IMMEDIATELY AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
6. ALL TREES AND SHRUBS TO BE BALLED IN BURLAP OR CONTAINERIZED.
7. MULCH FOR PLANTED AREAS TO BE AGED SPRUCE AND FIR BARK, PARTIALLY DECOMPOSED, DARK BROWN IN COLOR AND FREE OF WOOD CHIPS THICKER THAN 1/4 INCH.
8. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS, STRUCTURES AND PLANTING BEDS.
9. NO PLANTS SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING AND BEFORE CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
10. ALL SHRUB GROUPINGS SHALL BE INCORPORATED INTO BEDS. WHERE MULCHED PLANT BED ABUTS LAWN, CONTRACTOR SHALL PROVIDE A TURF CUT EDGE.
11. ALL TREES ALONG WALK AND PARKING AREAS SHALL BEGIN BRANCHING AT 6' HT. MIN.
12. ALL PLANT MATERIAL OR REPRESENTATIVE SAMPLES SHALL BE LEGIBLY TAGGED WITH PROPER COMMON AND BOTANICAL NAMES. TAGS SHALL REMAIN ON THE PLANTS UNTIL FINAL ACCEPTANCE.
13. CONTRACTOR SHALL LOAMED DISTURBED AREAS AS FOLLOWS:
    - LAWN AREAS 6" DEPTH OF TOPSOIL
14. SEED MIXTURES FOR AREAS TO BE SEEDED SHALL BE AS FOLLOWS.

    - LAWN AREAS SHALL BE SEEDED WITH:SEED TYPE % BY WEIGHT CREEPING RED FESCUE (MIN. 2 VARIETIES) 55%, KENTUCKY BLUEGRASS (MIN. 2 VARIETIES) 30%, PERENNIAL RYE GRASS 15%. SEED AT A RATE OF 4 LBS PER 1000 SQ.FT.
15. CONTRACTOR SHALL BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING AND WILL CONTINUE UNTIL FINAL ACCEPTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS OF WATERING AND MAINTENANCE.
16. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE (1) FULL YEAR FROM DATE OF FINAL ACCEPTANCE.
17. SCREENED IMAGES SHOW EXISTING CONDITIONS. WHERE EXISTING CONDITIONS LIE UNDER OR ARE IMPINGED UPON BY PROPOSED BUILDINGS AND OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE REMOVED, ABANDONED AND OR CAPPED OR DEMOLISHED AS REQUIRED.
18. SEE DRAWINGS C-100 THRU C-104 AND C-300 THRU C-302 FOR ADDITIONAL INFORMATION.
19. ELEVATION 130 CIVIL PLANS = ELEVATION 100 ARCHITECTURAL PLANS.

PLANT LIST:

SYMBOL	BOTANICAL NAME	COMMON NAME	QTY	SIZE	COMMENTS
TREES					
BND	BETULA NIGRA 'DURAHEAT'	DURAHEAT RIVER BIRCH	1	12' HT.	CLUMP, B&B
GBM	GINKO BILOBA MASYAR	MASYAR GINKO	2	3" CAL.	B&B
PCC	PYRUS CALLERIANA 'CLEVELAND'	CLEVELAND FLOWERING PEAR	1	3" CAL.	B&B
SHRUBS, GROUNDCOVERS & HERBACEOUS MATERIALS					
HAA	HYDRANGEA ARBORESCENS 'ANNABELLE'	ANNABELLE HYDRANGEA	3	36" HT.	FULL & BUSHY
HS	HEMEROCALLIS STELLA D'ORO	STELLA D'ORO DAYLILLY	18	1 GAL.	FULL & BUSHY
JCG	JUNIPEROUS CHINENSIS 'CASINO GOLD'	CASINO GOLD CHINESE JUNIPER	8	24" HT.	FULL & BUSH
RB	RHODODENDRON BOULE DE NEIGE	BOULE DE NEIGE RHODODENDRON	3	36" HT.	FULL & BUSHY
TMN	TAXUS X MEDIA 'NIGRA'	DARK SPREADING YEW	6	30" HT.	FULL & BUSHY
VTS	VIBURNUM P. TOMENTOSUM 'SHASTA'	SHASTA DOUBLEFILE VIBURNUM	3	40" HT.	FULL & BUSHY

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
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LICENSED LANDSCAPE ARCHITECT PETER B. BIEGEL No. 2024 STATE OF MAINE
5/11/12

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Consulting Engineering & Land Planning
23 Whitney Way Topsham, Maine 04086 Tel: (207) 449-4275

CLIENT:
PORT CITY ARCHITECTURE
65 NEWBURY STREET, PORTLAND, MAINE 04101

DESIGN: DEPT.
DRAWN: DEPT.
CHKD: TWS
DATE: JAN. 2012
SCALE: 1"= 20'

PROJECT: PATIENT CARE CENTER
UNIVERSITY OF NEW ENGLAND
STEVENS AVENUE, PORTLAND, MAINE

LANDSCAPE PLAN

PROJ. NO. –
DWG. NO. C-104
REV. C

Drawing Name: K:\UNE Dentistry\Dwgs\Site Plan | Plot Date / Time: May. 10, 12 / 2:04 PM

EROSION AND SEDIMENTATION CONTROL NOTES & DETAILS

TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES INCLUDE THE USE OF STABILIZED CONSTRUCTION ENTRANCE, SEDIMENT BARRIER, EROSION CONTROL MIX, STONE CHECK DAMS, HAY BALE BARRIERS, CATCH BASIN INLET BARRIERS, CATCH BASIN SEDIMENT COLLECTION BAGS, EROSION CONTROL BLANKET, AND TEMPORARY SEEDING AND MULCHING AS REQUIRED. PERMANENT DEVICES INCLUDE THE USE OF RIP RAP AT EXPOSED STORM DRAIN AND CULVERT INLETS AND OUTLETS, RIP RAPPED SLOPES, AND PERMANENT VEGETATION.

A. GENERAL

1. IT IS ANTICIPATED THAT CONSTRUCTION WILL BEGIN AS SOON AS POSSIBLE FOLLOWING RECEIPT OF NECESSARY PERMITS.
2. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENT CONTROL BMPS, PUBLISHED BY THE BUREAU OF LAND AND WATER QUALITY MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, LATEST EDITION.
3. ANY ADDITIONAL EROSION AND SEDIMENTATION CONTROL DEEMED NECESSARY BY THE OWNER'S REPRESENTATIVE, DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) PERSONNEL AND/OR MUNICIPAL OFFICIALS SHALL BE INSTALLED BY THE CONTRACTOR.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL FINES RESULTING FROM EROSION OR SEDIMENTATION FROM THE SITE TO SURROUNDING PROPERTIES, WATER BODIES, OR WETLANDS AS A RESULT OF THIS PROJECT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT/MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL ALL DISTURBED AREAS ARE STABILIZED TO THE SATISFACTION OF THE ABOVE PERSONNEL. DESCRIPTIONS OF ACCEPTABLE PERMANENT STABILIZATION FOR VARIOUS COVER TYPES FOLLOWS:
   - A. FOR SEEDED AREAS, PERMANENT STABILIZATION MEANS A 90% RESTORED AREA WITH MATURE, HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR RILLING OF THE TOPSOIL.
   - B. FOR SODDED AREAS, PERMANENT STABILIZATION MEANS THE COMPLETE BINDING OF THE SOD ROOTS INTO THE UNDERLYING SOIL WITH NO SLUMPING OF THE SOD OR DIE-OFF.
   - C. FOR MULCHED AREAS, PERMANENT MULCHING MEANS TOTAL COVERAGE OF THE EXPOSED AREA WITH AN APPROVED MULCH MATERIAL. EROSION CONTROL MIX MAY BE USED AS MULCH FOR PERMANENT STABILIZATION ACCORDING TO THE APPROVED APPLICATION RATES AND LIMITATIONS.
   - D. FOR AREAS STABILIZED WITH RIPRAP, PERMANENT STABILIZATION MEANS THAT SLOPES STABILIZED WITH RIPRAP HAVE AN APPROPRIATE BACKING OF A WELL-GRADED GRAVEL OR APPROVED GEOTEXTILE TO PREVENT SOIL MOVEMENT FROM BEHIND THE RIPRAP. STONE MUST BE SIZED APPROPRIATELY.
   - E. PAVED AREAS. FOR PAVED AREAS, PERMANENT STABILIZATION MEANS THE PLACEMENT OF THE COMPACTED GRAVEL SUBBASE IS COMPLETED.
   - F. FOR OPEN CHANNELS, PERMANENT STABILIZATION MEANS THE CHANNEL IS STABILIZED WITH MATURE VEGETATION AT LEAST THREE INCHES IN HEIGHT, WITH WELL-GRADED RIP RAP, OR WITH ANOTHER NON-EROSIVE LINING CAPABLE OF WITHSTANDING THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHOUT RELIANCE ON CHECK DAMS TO SLOW FLOW. THERE MUST BE NO EVIDENCE OF SLUMPING OF THE LINING, UNDERCUTTING OF THE BANKS, OR DOWN CUTTING OF THE CHANNEL.

B. EROSION AND SEDIMENTATION CONTROL MEASURES

1. PRIOR TO THE BEGINNING OF CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE AND TEMPORARY SILT FENCE SHALL BE INSTALLED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. IT IS THE INTENT THAT SEDIMENT BARRIERS BE INSTALLED DOWN GRADIENT OF ALL DISTURBED AREAS OF THE SITE. SEDIMENT BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS WILL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE SEDIMENT BARRIERS. THIS SEDIMENT WILL BE SPREAD AND STABILIZED IN AREAS OF THE SITE NOT SUBJECT TO EROSION. SEDIMENT BARRIERS SHALL BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, THEY WILL BE REPLACED WITH A TEMPORARY CRUSHED STONE CHECK DAM.
2. ALL CATCH BASINS, NEW OR EXISTING, THAT MAY RECEIVE RUNOFF FROM DISTURBED AREAS MUST BE PROTECTED DURING CONSTRUCTION. INSPECT & CLEAN OUT AS NECESSARY. LEGALLY DISPOSE OF SEDIMENT & REMOVE FLOATABLES WITH OIL ABSORBENT PADS AS APPLICABLE.
3. REMOVAL OF SOD, TREES, BUSHES AND OTHER VEGETATION AND SOIL DISTURBANCE WILL BE KEPT TO A MINIMUM WHILE ALLOWING PROPER SITE DEVELOPMENT.
4. GRUBBINGS AND ANY UNUSABLE TOPSOIL SHALL BE STRIPPED AND REMOVED FROM THE PROJECT SITE AND DISPOSED OF IN AN APPROVED MANNER.
5. ANY SUITABLE TOPSOIL WILL BE STRIPPED AND STOCKPILED FOR REUSE IN FINAL GRADING. TOPSOIL WILL BE STOCKPILED IN A MANNER SUCH THAT NATURAL DRAINAGE IS NOT OBSTRUCTED AND NO OFF-SITE SEDIMENT DAMAGE WILL RESULT. IF A STOCKPILE IS NECESSARY, THE SIDE SLOPES OF THE TOPSOIL STOCKPILE WILL NOT EXCEED 2:1. TOPSOIL STOCKPILES WILL BE TEMPORARILY SEEDED WITH AROOSTOOK RYE, ANNUAL OR PERENNIAL RYE GRASS (DEPENDING ON DATE SEEDED) WITHIN 7 DAYS OF FORMATION, OR TEMPORARILY MULCHED IF SEEDING CANNOT BE DONE WITHIN THE RECOMMENDED SEEDING DATES.
6. TEMPORARY DIVERSION BERMS AND DRAINAGE SWALES SHALL BE CONSTRUCTED AS NECESSARY.
7. TEMPORARY STABILIZATION SHALL BE CONDUCTED WITHIN 7 DAYS OF INITIAL DISTURBANCE OF SOILS, PRIOR TO ANY RAIN EVENT, AND PRIOR TO ANY WORK SHUT DOWN LASTING MORE THAN ONE DAY. TEMPORARY STABILIZATION INCLUDES SEED, MULCH, OR OTHER NON-ERODABLE COVER. AREAS WITHIN 75 FEET OF WETLANDS SHALL BE TEMPORARILY STABILIZED WITHIN 48 HOURS OR PRIOR TO RAIN EVENT.
8. APPLY HAY OR STRAW MULCH AT A RATE OF 2 TONS PER ACRE, AND ANCHOR AS NECESSARY.
9. TEMPORARY SEEDING SPECIFICATIONS. WHERE THE SEEDBED HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 4 INCHES BEFORE APPLYING FERTILIZER, LIME, AND SEED. APPLY LIMESTONE AT A RATE OF 3 TONS PER ACRE (138 LB. PER 1,000 SQUARE FEET) AND 10-10-10 (N-P205-K20) FERTILIZER AT A RATE OF 600 LBS. PER ACRE (13.8 LB. PER 1,000 SQUARE FEET). UNIFORMLY APPLY SEED AT THE RECOMMENDED SEEDING RATES AND DATES, APPLY HAY OR STRAW MULCH AT A RATE OF 2 TONS PER ACRE, AND ANCHOR AS NECESSARY.

   RECOMMENDED TEMPORARY SEEDING DATES AND APPLICATION RATES ARE AS FOLLOWS:

   AROOSTOOK RYE: RECOMMENDED SEEDING DATES: 8/15 – 10/1
   APPLICATION RATE: 112 LBS./ACRE

   ANNUAL RYE GRASS: RECOMMENDED SEEDING DATES: 4/1 – 7/1
   APPLICATION RATE: 40 LBS./ACRE

   PERENNIAL RYE GRASS: RECOMMENDED SEEDING DATES: 8/15 – 9/15
   APPLICATION RATE: 40 LBS./ACRE
10. IF THE AREA WILL REMAIN UNWORKED FOR MORE THAN ONE YEAR OR HAS BEEN BROUGHT TO FINAL GRADE, AND WILL NOT BE BUILT ON, THEN IMMEDIATELY PROVIDE PERMANENT STABILIZATION USING VEGETATION THROUGH PLANTING, SEEDING, SOD, OR THROUGH THE USE OF PERMANENT MULCH OR RIPRAP. IF USING VEGETATION FOR STABILIZATION, SELECT THE PROPER VEGETATION FOR THE LIGHT, MOISTURE, AND SOIL CONDITIONS. AMEND AREAS OF DISTURBED SUBSOIL WITH TOP SOIL OR OTHER ORGANIC AMENDMENTS, PROTECT SEEDED AREAS WITH MULCH OR, IF NECESSARY EROSION CONTROL BLANKETS, AND SCHEDULE SODDING, PLANTING, AND SEEDING SO TO AVOID DIE-OFF FROM SUMMER DROUGHT AND FALL FROSTS. NEWLY SEEDED OR SODDED AREAS MUST BE PROTECTED FROM VEHICLE TRAFFIC, EXCESSIVE PEDESTRIAN TRAFFIC, AND CONCENTRATED RUNOFF UNTIL THE VEGETATION IS WELL ESTABLISHED. AREAS MUST BE REWORKED AND RESTABILIZED IF GERMINATION IS SPARSE, PLANT COVERAGE IS SPOTTY, OR TOPSOIL EROSION IS EVIDENT.
11. PERMANENT SEEDING SPECIFICATION. IF A LANDSCAPE PLAN HAS BEEN PREPARED FOR THE PROJECT, SOIL PREPARATION AND SEEDING OF THAT PLAN SHALL SUPERSEDE THESE GENERAL PERMANENT SEEDING SPECIFICATIONS. IT IS RECOMMENDED THAT PERMANENT SEEDING BE COMPLETED BETWEEN APRIL 1 AND AUGUST 15 OF EACH YEAR. LATE SEASON SEEDING MAY BE DONE BETWEEN AUGUST 15 AND SEPTEMBER 15. AREAS NOT SEEDED OR WHICH DO NOT OBTAIN A SATISFACTORY GROWTH BY OCTOBER 1 SHALL BE SEEDED WITH AROOSTOOK RYE OR MULCHED AT RATES PREVIOUSLY SPECIFIED. SEE WINTER CONDITIONS NOTES FOR SEEDING STABILIZATION AFTER NOVEMBER 1.
    - A. APPLY TOPSOIL TO A MINIMUM DEPTH OF 6 INCHES. MIX TOPSOIL WITH THE SUBSOIL TO A MINIMUM DEPTH OF 2 INCHES.
    - B. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS. IN LIEU OF SOIL TESTS, APPLY GROUND LIMESTONE AT A RATE OF 3 TONS PER ACRE (138 LB. PER 1,000 SQUARE FEET) AND GRANULAR, COMMERCIAL-GRADE, 10-10-10 (N-P205-K20) FERTILIZER AT A RATE OF 800 LBS. PER ACRE (18.4 LBS. PER 1,000 SQUARE FEET).
    - C. UNIFORMLY APPLY SEED MIXTURE AT THE RECOMMENDED SEEDING RATES AND DATES, APPLY HAY OR STRAW MULCH AT A RATE OF 2 TONS PER ACRE, AND ANCHOR AS NECESSARY.
    - D. THE SEED MIXTURE FOR LAWN AREAS SHALL CONSIST OF SEEDS PROPORTIONED BY WEIGHT AS FOLLOWS:

      45 % CREEPING RED FESCUE
      45 % KENTUCKY BLUEGRASS
      10 % PERENNIAL RYE GRASS

      SEEDING RATE PER 1000 SQ.FT. = 3.5 LBS. MIN.
    - E. THE SEED MIXTURE FOR WET AREAS SHALL CONSIST OF SEEDS PROPORTIONED BY WEIGHT AS FOLLOWS:

      80 % REED CANARY GRASS
      20 % RED TOP

      SEEDING RATE PER 1000 SQ.FT. = 0.57 LBS. MIN.
    - E. THE SEED MIXTURE FOR WET AREAS SHALL CONSIST OF SEEDS PROPORTIONED BY WEIGHT AS FOLLOWS:

      80 % REED CANARY GRASS
      20 % RED TOP

      SEEDING RATE PER 1000 SQ.FT. = 0.60 LBS. MIN.
12. MULCH ALL AREAS SEEDED SO THAT SOIL IS NOT VISIBLE THROUGH THE MULCH REGARDLESS OF THE APPLICATION RATE.
13. DITCH LININGS, STONE CHECK DAMS, AND RIPRAP INLET AND OUTLET PROTECTION SHALL BE INSTALLED WITHIN 48 HOURS OF COMPLETING THE GRADING OF THAT SECTION OF DITCH OR INSTALLATION OF CULVERT.
14. RIPRAP REQUIRED AT CULVERTS AND STORM DRAIN INLETS AND OUTLETS SHALL CONSIST OF FIELD STONE OR ROUGH UNHEWN QUARRY STONE OF APPROXIMATELY RECTANGULAR SHAPE. STONES SHALL WEIGH FROM 10 LBS. TO 200 LBS. AND 50% OF THE STONES BY VOLUME SHALL EXCEED A UNIT WEIGHT OF APPROXIMATELY 50 LBS.
15. EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL PERMANENT SLOPES STEEPER THAN 3:1, IN THE BASE OF DITCHES NOT OTHERWISE PROTECTED, AND ANY DISTURBED AREAS WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE (E.G. WETLANDS AND WATER BODIES). EROSION CONTROL BLANKET SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
16. TEMPORARY CONTROL MEASURES, SUCH AS SILT FENCE, SHALL BE REMOVED WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.

C. WINTER CONDITIONS

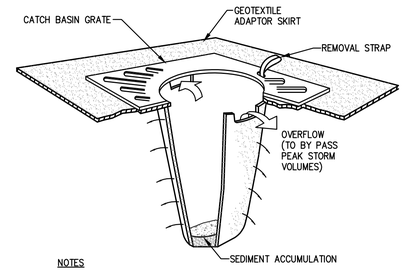
1. "WINTER CONSTRUCTION" IS CONSTRUCTION ACTIVITY PERFORMED DURING THE PERIOD FROM NOVEMBER 1 THROUGH APRIL 15. IF AREAS WITHIN THE CONSTRUCTION ACTIVITY ARE NOT STABILIZED WITH TEMPORARY OR PERMANENT MEASURES OUTLINED ABOVE BY NOVEMBER 15, THEN THE SITE MUST BE PROTECTED WITH ADDITIONAL STABILIZATION MEASURES THAT ARE SPECIFIC TO WINTER CONDITIONS. NO MORE THAN ONE ACRE OF THE SITE MAY BE WITHOUT STABILIZATION AT ONE TIME. SLOPE STABILIZATION AND DISTURBED AREA STABILIZATION DURING WINTER CONDITIONS SHOULD BE ADDRESSED IN ACCORDANCE WITH SECTION A-3 OF THE MAINE EROSION AND SEDIMENT CONTROL BMPS, MARCH 2003.
2. AREAS WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIERS.
3. HAY MULCH SHALL BE APPLIED AT TWICE THE STANDARD TEMPORARY STABILIZATION RATE. AT THE END OF EACH CONSTRUCTION DAY, AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE STABILIZED. MULCH MAY NOT BE SPREAD ON TOP OF SNOW.
4. AFTER NOVEMBER 1 OR THE FIRST KILLING FROST FOR THE REGION AND BEFORE SNOW FALL, ALL EXPOSED AND DISTURBED AREAS NOT TO UNDERGO FURTHER DISTURBANCE ARE TO HAVE DORMANT SEEDING. THE DORMANT SEEDING METHOD: PREPARE THE SEEDBED, LIME AND FERTILIZE, APPLY THE SELECTED PERMANENT SEED MIXTURE AT THREE TIMES THE REGULAR SEEDING RATE, AND MULCH AND ANCHOR. DORMANT SEEDINGS NEED TO BE ANCHORED EXTREMELY WELL ON SLOPES, DITCH BASES AND AREAS OF CONCENTRATED FLOWS. DORMANT SEEDING REQUIRES INSPECTION AND RESEEDING AS NEEDED IN THE SPRING. ALL AREAS WHERE COVER IS INADEQUATE MUST BE IMMEDIATELY RESEEDED AND MULCHED AS SOON AS POSSIBLE.
5. ALL VEGETATED DITCH LINES THAT HAVE NOT BEEN STABILIZED BY SEPTEMBER 1, OR WILL BE WORKED DURING THE WINTER CONSTRUCTION PERIOD, MUST BE STABILIZED WITH AN APPROPRIATE STONE LINING BACKED BY AN APPROPRIATE GRAVEL BED OR GEOTEXTILE UNLESS SPECIFICALLY RELEASED FROM THIS STANDARD BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
6. MULCH NETTING MUST BE USED TO ANCHOR MULCH ON ALL SLOPES GREATER THAN 8% UNLESS EROSION CONTROL BLANKETS OR EROSION CONTROL MIX IS BEING USED ON THESE SLOPES.

D. HOUSEKEEPING

1. SPILL PREVENTION.CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM BEING DISCHARGED FROM MATERIALS ON SITE, INCLUDING STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER, AND APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING AND IMPLEMENTATION.
2. GROUNDWATER PROTECTION. DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS, ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL. DIKES, BERMS, SUMPS, AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS.
3. FUGITIVE SEDIMENT AND DUST. ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CONTROL.
4. DEBRIS AND OTHER MATERIAL. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORM WATER, MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
5. TRENCH OR FOUNDATION DE-WATERING. TRENCH DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE PONDED WATER EITHER THROUGH GRAVITY OR PUMPING, MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOTE AREAS THAT ARE SPECIFICALLY DESIGNATED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFER DAM SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE.

E. INSPECTION AND MAINTENANCE

1. INSPECT DISTURBED AND IMPERVIOUS AREAS, EROSION AND STORMWATER CONTROL MEASURES, AREAS USED FOR STORAGE THAT ARE EXPOSED TO PRECIPITATION, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE A WEEK AS WELL AS BEFORE AND AFTER STORM EVENTS, PRIOR TO COMPLETION OF PERMANENT STABILIZATION. A PERSON WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROLS, INCLUDING THE STANDARDS IN THE MAINE CONSTRUCTION GENERAL PERMIT AND ANY DEP OR MUNICIPAL COMPANION DOCUMENTS, MUST CONDUCT THE INSPECTION. THIS PERSON MUST BE IDENTIFIED IN THE INSPECTION LOG. IF BEST MANAGEMENT PRACTICES BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL). ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.
2. AN INSPECTION AND MAINTENANCE LOG MUST BE KEPT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME AND QUALIFICATIONS OF THE PERSON PERFORMING THE INSPECTION, DATE, AND MAJOR OBSERVATIONS RELATING TO OPERATION OF EROSION AND SEDIMENTATION CONTROLS AND POLLUTION PREVENTION MEASURES. MAJOR OBSERVATIONS MUST INCLUDE: BMPs THAT NEED TO BE MAINTAINED, LOCATION(S) OF BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION, AND LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF THE INSPECTION. FOLLOW-UP TO CORRECT DEFICIENCIES OR ENHANCE CONTROLS MUST ALSO BE INDICATED IN THE LOG AND DATED; INCLUDING WHAT ACTION WAS TAKEN AND WHEN.
3. IT IS RECOMMENDED THAT THE OWNER RETAIN THE SERVICES OF THE DESIGN ENGINEER FOR SITE INSPECTIONS IN COMPLIANCE WITH MAINE DEP STORMWATER RULES, CHAPTER 500.



NOTES

1. CATCH BASIN PROTECTION TO BE "SILTSTACK" (BY ACF ENVIRONMENTAL) OR "STREAM GUARD" (BY FOSS ENVIRONMENTAL SERVICES).

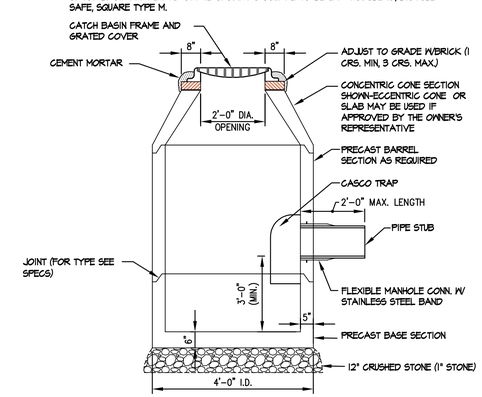
   INSERT TO BE EMPTIED IN AN APPROVED MANNER WHEN IT IS 1/2 FULL OF SEDIMENT.
2. INSPECT INSERT AFTER ALL RAINFALL EVENTS, REPAIR AND MAINTAIN AS REQUIRED.

1 TEMPORARY INLET PROTECTION
SCALE: N.T.S.

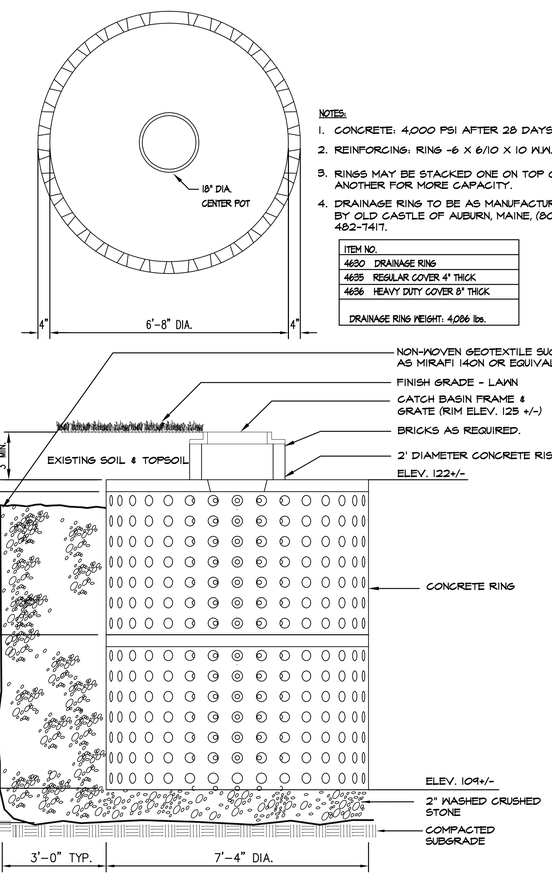
GRATED COVERS:

CATCH BASIN FRAME AND GRATED COVERS SHOWN AS ROUND TO BE 24" DIAMETER, BICYCLE SAFE, E2456 AS MANUFACTURED BY ETHERIDGE FOUNDRY OR APPROVED EQUAL.

CATCH BASIN FRAME AND GRATE SHOWN AS SQUARE TO BE 24" NO. SB243, BICYCLE SAFE, SQUARE TYPE M.



2 CATCH BASIN
SCALE: N.T.S.

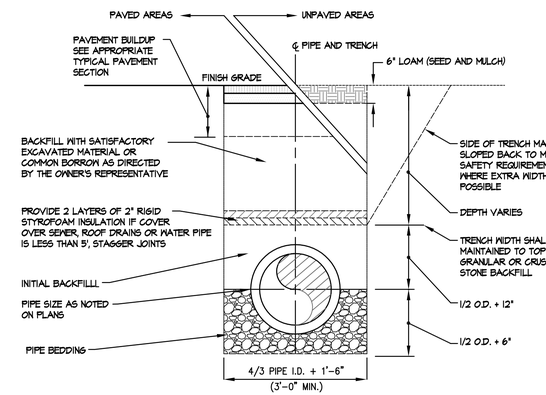


NOTES:

1. CONCRETE: 4,000 PSI AFTER 28 DAYS.
2. REINFORCING: RING -6 X 6/10 X 10 W.W.M.
3. RINGS MAY BE STACKED ONE ON TOP OF ANOTHER FOR MORE CAPACITY.
4. DRAINAGE RING TO BE AS MANUFACTURED BY OLD CASTLE OF AUBURN, MAINE, (800) 482-7417.

ITEM NO.	
4630	DRAINAGE RING
4635	REGULAR COVER 4" THICK
4636	HEAVY DUTY COVER 8" THICK
DRAINAGE RING WEIGHT: 4,086 lbs.	

3 PRECAST CONCRETE DRAINAGE RING
SCALE: N.T.S.



TRENCH BACKFILL SCHEDULE

PIPE MATERIAL	PIPE BEDDING	INITIAL BACKFILL	BACKFILL
HDPE	3/4" CRUSHED STONE	3/4" CRUSHED STONE	***EXCAVATED MATERIAL OR GRANULAR BORROW
PVC	3/4" CRUSHED STONE	3/4" CRUSHED STONE	***EXCAVATED MATERIAL OR GRANULAR BORROW
DUCTILE IRON	GRANULAR MATERIAL	GRANULAR MATERIAL	***EXCAVATED MATERIAL OR GRANULAR BORROW
COPPER	SAND	SAND	***EXCAVATED MATERIAL OR GRANULAR BORROW

*** EXCAVATED MATERIAL MUST BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

GRANULAR MATERIAL TO BE SAND OR GRAVEL.

4 TYPICAL TRENCH SECTION
SCALE: N.T.S.

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SITE DESIGN ASSOCIATES, ANY ALTERATIONS, OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SITE DESIGN ASSOCIATES.

REV.	DATE	STATUS	BY	CHKD.	APPD.	REV.	DATE	STATUS	BY	CHKD.	APPD.
C	5/11/12	ISSUED FOR BUILDING PERMIT	DEPT.	TWS	TWS						
B	4/17/12	SUBMITTED TO THE CITY OF PORTLAND FOR LEVEL 3 REVIEW	DEPT.	TWS	TWS						
A	4/13/12	ISSUED FOR DESIGN DEVELOPMENT	DEPT.	TWS	TWS						

STATE OF MAINE THOMAS W. SAUNDERS NO. 10086 LICENSED PROFESSIONAL ENGINEER 5/1/12

Site Design Associates
Consulting Engineering & Land Planning
23 Whitney Way Topsham, Maine 04086 Tel: (207) 449-4275

CLIENT:
PORT CITY ARCHITECTURE
65 NEWBURY STREET, PORTLAND, MAINE 04101

DESIGN: DEPT.
DRAWN: DEPT.
CHKD: TWS
DATE: JAN. 2012
SCALE: AS NOTED

PROJECT: PATIENT CARE CENTER
UNIVERSITY OF NEW ENGLAND
STEVENS AVENUE, PORTLAND, MAINE

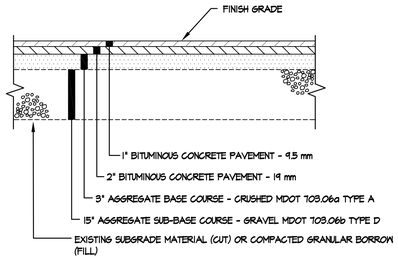
EROSION AND SEDIMENTATION CONTROL NOTES AND SITE DETAILS

PROJ. NO. –
DWG. NO. C-300
REV. C

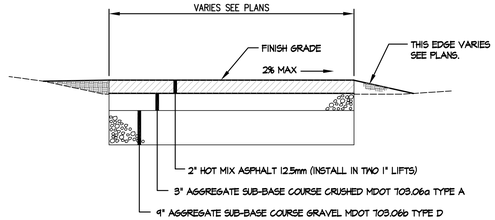
Drawing Name: K:\UNE Dentistry\Dwgs\Details | Plot Date / Time: May 10, 12 / 2:05 PM

NOTES:

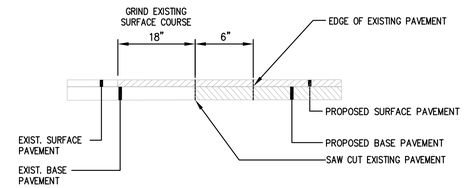
1. ADDITIONAL SUBBASE GRAVEL AND/OR GEOTEXTILES MAY BE REQUIRED DURING CONSTRUCTION IF SOIL CONDITIONS WARRANT.
2. BUILD-UP RECOMMENDATION IS PRELIMINARY REFER TO GEOTECHNICAL REPORT.



1 PARKING AREAS, SERVICE DRIVE & DROP OFF BUILD-UP



2 WALKWAY BUILD UP – BITUMINOUS CONCRETE (ALEXANDER AND LINNELL PLAZA)

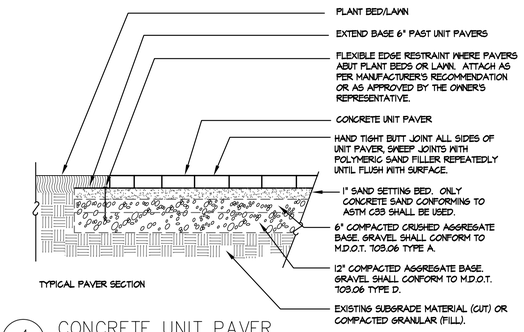


3 HMA PAVEMENT BUTT JOINT

SCALE: N.T.S.

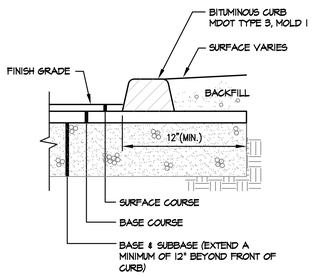
NOTES:

1. ALL PAVERS SHALL BE SAW CUT ONLY. NO FRAGMENT SHALL BE SMALLER THAN 2". FINAL SURFACE SHALL PITCH TO DRAIN PER GRADING PLAN.
2. CONCRETE UNIT PAVERS SHALL BE AS THE TREVIA TUMBLED PAVER IN GRANITE BLEND COLOR. AS MANUFACTURED AND DISTRIBUTED BY GENEST CONCRETE OF SANFORD OR WINDHAM, MAINE (800) 649-4778. SAMPLES SHALL BE PROVIDED TO THE OWNER PRIOR TO PURCHASE FOR APPROVAL.



4 CONCRETE UNIT PAVER

SCALE: NTS

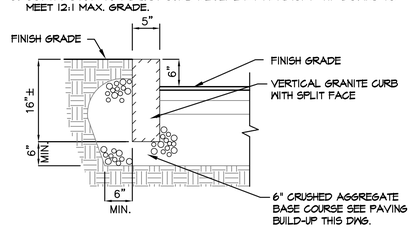


5 BITUMINOUS CURB (ADJACENT TO SIDEWALK)

SCALE: N.T.S.

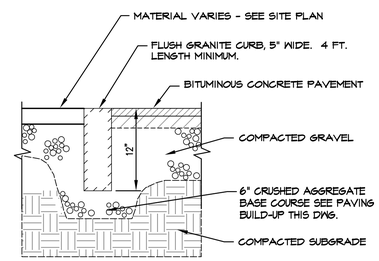
NOTES:

1. NO STRAIGHT CURB STONES SHALL BE USED ON RADII. SUBMIT SHOP DRAWINGS TO THE OWNER'S REPRESENTATIVE OF CURB STONE LENGTHS TO BE USED.
2. MINIMUM LENGTH OF STRAIGHT CURB STONES SHALL BE 4'.
3. MAXIMUM LENGTH OF STRAIGHT CURB STONES SHALL BE 8'.
4. JOINTS BETWEEN CURB STONES SHALL BE NO LESS THAN 1/8" AND NO GREATER THAN 3/8". PLACE FILTER FABRIC IN THE BACK PORTION OF THE JOINT TO PREVENT BACKFILL MATERIAL INFILTRATION.
5. CONTRACTOR TO ADJUST CURB REVEAL AT HANDICAP TIP DOWNS TO MEET 12:1 MAX. GRADE.



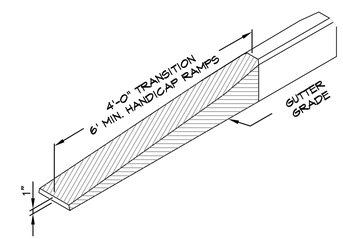
6 VERTICAL GRANITE CURB (RESET & NEW)

SCALE: N.T.S.



7 GRANITE CURB – FLUSH

SCALE: N.T.S.

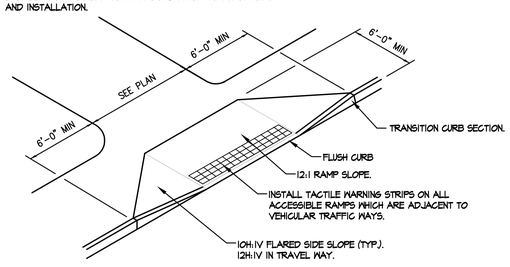


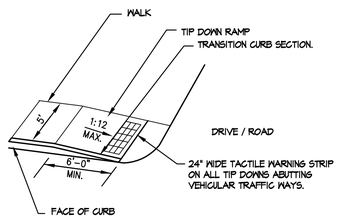
8 TRANSITION CURB

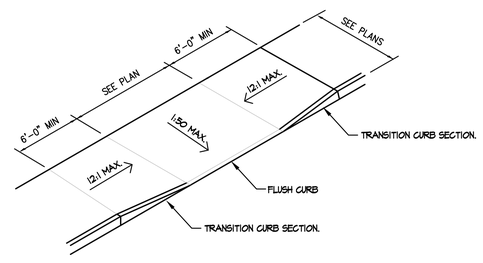
SCALE: N.T.S.

NOTES:

1. DIMENSIONS SHOWN AT EDGE OF ROAD ARE FIXED.
2. RAMP CROSS SECTION TO BE THE SAME AS ADJACENT SIDEWALK; I.E. DEPTH OF SURFACE AND FOUNDATION.
3. DIMENSIONS ARE SUBJECT TO CHANGE IN FIELD. ALL SLOPES AND DIMENSIONS TO COMPLY WITH A.D.A. REQUIREMENTS.
4. 24" WIDE DETECTABLE WARNING STRIP TO BE CONSTRUCTED FROM ADA COMPLIANT PRECAST CONCRETE UNIT PAVERS (RED IN COLOR) SUCH AS THE HOLLANDSTONE AS MANUFACTURED BY GENEST CONCRETE OF SANFORD AND WINDHAM, MAINE OR APPROVED EQUIVALENT. PROVIDE PRODUCT INFORMATION TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PURCHASING AND INSTALLATION.

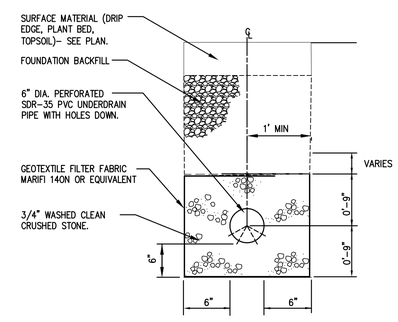






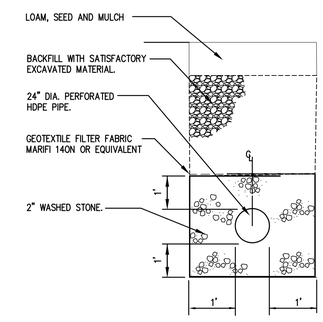
9 ACCESSIBLE CURB CUT RAMPS

SCALE: N.T.S.



10 FOUNDATION PERIMETER DRAIN

SCALE: N.T.S.



11 DRAINAGE RING PIPE

SCALE: N.T.S.

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SITE DESIGN ASSOCIATES, ANY ALTERATIONS, OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SITE DESIGN ASSOCIATES.

REV.	DATE	STATUS	BY	CHKD.	APPD.	REV.	DATE	STATUS	BY	CHKD.	APPD.
C	5/11/12	ISSUED FOR BUILDING PERMIT	DEPT.	TWS	TWS						
B	4/17/12	SUBMITTED TO THE CITY OF PORTLAND FOR LEVEL 3 REVIEW	DEPT.	TWS	TWS						
A	4/13/12	ISSUED FOR DESIGN DEVELOPMENT	DEPT.	TWS	TWS						

STATE OF MAINE THOMAS W. SAUCIER NO. 10084 LICENSED PROFESSIONAL ENGINEER 5-11-12

Site Design Associates
Consulting Engineering & Land Planning
23 Whitney Way Topsham, Maine 04086 Tel: (207) 449-4275

CLIENT:
PORT CITY ARCHITECTURE
65 NEWBURY STREET, PORTLAND, MAINE 04101

DESIGN: DEPT.
DRAWN: DEPT.
CHKD: TWS
DATE: JAN. 2012
SCALE: AS NOTED

PROJECT: PATIENT CARE CENTER
UNIVERSITY OF NEW ENGLAND
STEVENS AVENUE, PORTLAND, MAINE

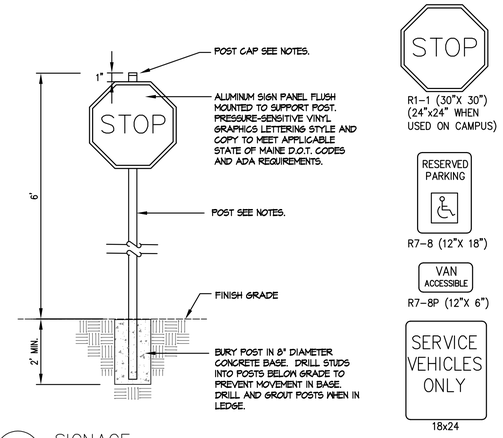
SITE DETAILS

PROJ. NO. –
DWG. NO. C-301
REV. C

Drawing Name: K:\JME Dentistry\Dwgs\Details | Plot Date / Time: May 10, 12 / 2:11 PM

NOTES:

1. PROVIDE SHOP DRAWINGS OF ALL SIGNS TO THE OWNER FOR APPROVAL PRIOR TO PURCHASING.
2. OWNER TO APPROVE ALL SIGN LOCATIONS IN THE FIELD PRIOR TO INSTALLATION.
3. CONTRACTOR TO REVIEW SIGN LOCATIONS FOR CONFLICTS WITH UNDERGROUND UTILITIES AND UNDERDRAIN PRIOR TO INSTALLING POSTS.
4. ALL SIGNAGE TO COMPLY WITH ALL ADA, FEDERAL &, LOCAL CODES AND MUTCD STANDARDS.
5. SIGN POSTS - FOR POSTS WITH INDIVIDUAL SIGNS: POSTS TO BE 2"X2"x8' POWDERED ALUMINUM, 0.06" THICKNESS, SQUARE PLASTIC CAP IN TOP AS MANUFACTURED BY NEPCO OF PROVIDENCE RHODE ISLAND. FOR POSTS WITH MULTIPLE SIGNS: POST TO BE 2" DIAMETER SCHEDULE 40 GALVANIZED STEEL, 8' LONG WITH CONICAL GALVANIZED STEEL CAP.
6. POSTS TO BE PAINTED WITH 2 COATS OF PAINT, COLOR TO BE PANTONE 294. GALVANIZED POSTS MUST BE CLEANED, PROTRUSIONS REMOVED, AND SURFACE ROUGHED PRIOR TO PAINTING.

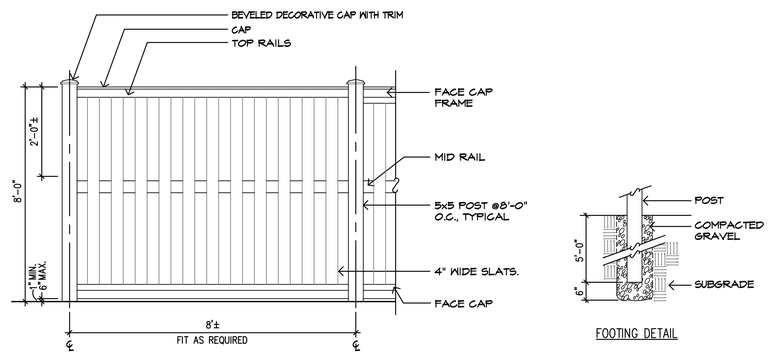


1 SIGNAGE

SCALE: N.T.S.

NOTE:

1. FENCE TO BE NORTHERN WHITE CEDAR. CONTRACTOR SHALL APPLY 2 COATS OF CABOT COMPANY'S EXTERIOR CLEAR WOOD SEALER / PRESERVATIVE.
2. PROVIDE HEAVY DUTY HARDWARE FOR DOUBLE SWING GATE.
3. PROVIDE FENCE AND GATE SHOP DRAWING FOR OWNER'S REPRESENTATIVE'S APPROVAL.

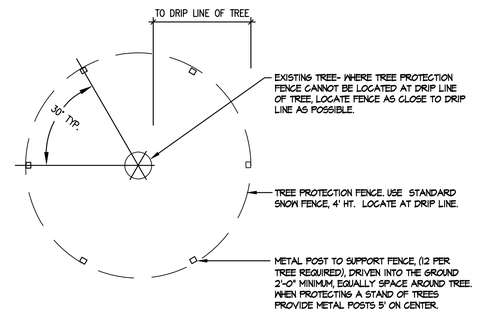


2 WOODEN SHADOWBOX FENCE MECHANICAL PAD ENCLOSURE

SCALE: N.T.S.

NOTES:

1. ALL DEAD AND DISEASED LIMBS SHALL BE PRUNED PRIOR TO BEGINNING CONSTRUCTION. ALL PRUNING AND TREE PROTECTION SHALL BE DONE BY A MAINE LICENSED ARBORIST SUCH AS BARTLETT TREE (883-3340).
2. A DEEP SOIL INJECTION OF FERTILIZER AND MYCORRHIZA SHALL BE GIVEN UNDER THE TREE CANOPY TO PROMOTE ROOT GROWTH. INJECTION AMOUNTS AND TIMING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT.
3. NO EQUIPMENT SHALL BE PARKED OR STORED UNDER THE EXISTING TREE CANOPY.
4. IN AREAS WHERE THE PROPOSED EXCAVATION WILL IMPACT THE EXISTING TREE ROOTS THE ROOTS SHALL BE PRUNED BY A LICENSED ARBORIST.

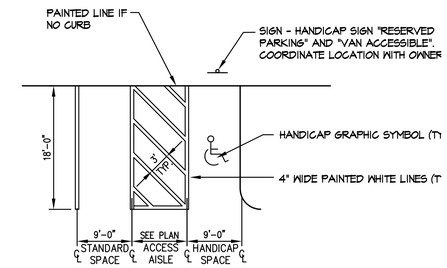


3 EXISTING TREE PROTECTION PLAN

SCALE: N.T.S.

NOTES:

1. SYMBOLS AND PARKING STALLS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
2. ALL PAINT SHALL BE LEAD FREE, FAST DRYING, 100% ACRYLIC WATERBORNE TRAFFIC PAINT WITH SILICA SAND FOR SKID RESISTANCE, MEETING THE REQUIREMENTS OF TT-P-1952E TYPE I & II. PAINT SHALL BE APPLIED AS SPECIFIED BY THE MANUFACTURER.

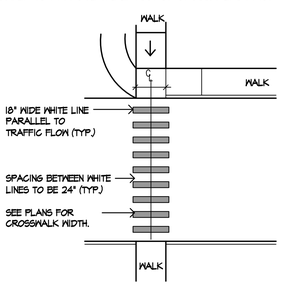


4 HANDICAP PARKING SPACE LAYOUT

SCALE: N.T.S.

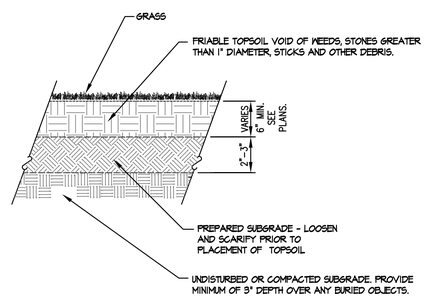
NOTES:

1. CROSSWALKS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT AND ALL LOCAL CODES AND MUTCD STANDARDS.
2. ALL PAINT SHALL BE LEAD FREE, FAST DRYING, 100% ACRYLIC WATERBORNE TRAFFIC PAINT WITH SILICA SAND FOR SKID RESISTANCE, MEETING THE REQUIREMENTS OF TT-P-1952E TYPE I & II. PAINT SHALL BE APPLIED AS SPECIFIED BY THE MANUFACTURER.
3. OWNER TO APPROVE THE LAYOUT OF CROSSWALKS PRIOR TO PAINTING.



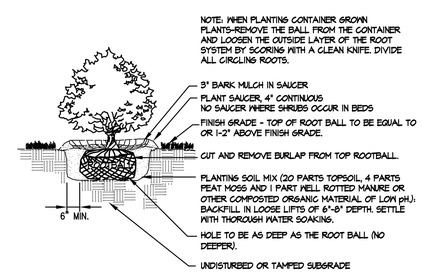
5 PAINTED CROSSWALK

SCALE: NTS



6 LAWN INSTALLATION (SEED OR SOD)

SCALE: NTS

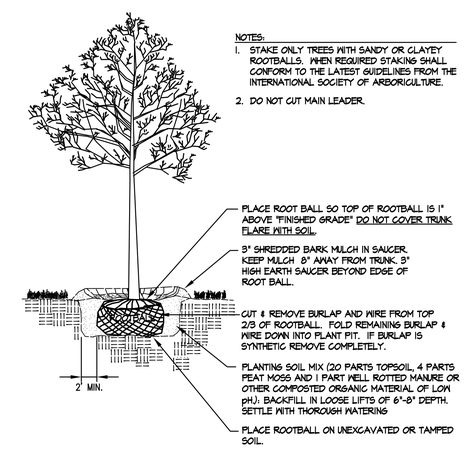


7 SHRUB PLANTING DETAIL

SCALE: N.T.S.

NOTES:

1. STAKE ONLY TREES WITH SANDY OR CLAYEY ROOTBALLS. WHEN REQUIRED STAKING SHALL CONFORM TO THE LATEST GUIDELINES FROM THE INTERNATIONAL SOCIETY OF ARBORICULTURE.
2. DO NOT CUT MAIN LEADER.



8 DECIDUOUS TREE PLANTING

SCALE: N.T.S.

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SITE DESIGN ASSOCIATES, ANY ALTERATIONS, OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SITE DESIGN ASSOCIATES.

REV.	DATE	STATUS	BY	CHKD.	APPD.	REV.	DATE	STATUS	BY	CHKD.	APPD.
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A	4/13/12	ISSUED FOR DESIGN DEVELOPMENT	DEPT.	TWS	TWS						

LICENSED LANDSCAPE ARCHITECT PETER B. BIEGEL No. 2824 STATE OF MAINE 5/11/12

Site Design Associates
Consulting Engineering & Land Planning
23 Whitney Way Topsham, Maine 04086 Tel: (207) 449-4275

CLIENT:
PORT CITY ARCHITECTURE
65 NEWBURY STREET, PORTLAND, MAINE 04101

DESIGN: DEPT.
DRAWN: DEPT.
CHKD: TWS
DATE: JAN. 2012
SCALE: AS NOTED

PROJECT: PATIENT CARE CENTER
UNIVERSITY OF NEW ENGLAND
STEVENS AVENUE, PORTLAND, MAINE

SITE DETAILS

PROJ. NO. –
DWG. NO. C-302
REV. C

Drawing Name: K:\UNE Dentistry\Dwgs\Details | Plot Date / Time: May 10, 12 / 2:11 PM

IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY

GENERAL NOTES

1. THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. INCONSISTENCIES BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
3. ALL DIMENSIONS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
4. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE ONLY AFTER THE STRUCTURAL WORK CONTAINED IN THE S- DRAWINGS IS COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
5. SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER RESERVES THE RIGHT TO INTERPRET DETAILS TO ADDRESS OTHER PROJECT CONDITIONS.
6. PROVIDE AND INSTALL NECESSARY MATERIAL TO CONNECT ELEVATOR SUPPORT BEAMS AND GUIDE RAILS. LOCATION AND SIZE OF MEMBERS AND ANY INSERTS REQUIRED SHALL BE DETERMINED BY THE ELEVATOR MANUFACTURER.
7. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK, INCLUDING DESCRIPTION OF SHORING, AND CONSTRUCTION METHODS AND SEQUENCING WHERE APPLICABLE. NO PERFORMANCE OF THE WORK INCLUDING, BUT NOT LIMITED TO, DEMOLITION OF EXISTING STRUCTURE, OR FABRICATION OR ERECTION OF NEW STRUCTURAL ELEMENTS, SHALL COMMENCE WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE ARCHITECT AND ENGINEER. SUBMIT ONE COPY AND ONE SEPIA. COPY WILL BE REVIEWED AND SEPIA WILL BE RETURNED. FOR SHOP DRAWINGS AND SUBMITTALS REQUIRED, REFERENCE THE PROJECT SPECIFICATION.
8. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
9. IN ACCORDANCE WITH THE MAINE UNIFORM BUILDING AND ENERGY CODE/INTERNATIONAL BUILDING CODE (2009 EDITION, SECTION 1704.1), A STATEMENT OF SPECIAL INSPECTIONS IS REQUIRED AS A CONDITION FOR PERMIT ISSUANCE BY THE LOCAL CODE OFFICIAL. THIS STATEMENT SHALL INCLUDE A COMPLETE LIST OF MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS, THE INSPECTIONS TO BE PERFORMED AND A LIST OF THE INDIVIDUALS, APPROVED AGENCIES AND FIRMS INTENDED TO BE RETAINED FOR CONDUCTING SUCH INSPECTIONS.
10. REFERENCE THE PROJECT SPECIFICATIONS FOR ALL TESTING REQUIREMENTS.

DESIGN LOADS

1. BUILDING CODE:
   MAINE UNIFORM BUILDING AND ENERGY CODE
   INTERNATIONAL BUILDING CODE, 2009 EDITION
   ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

   DESIGN FLOOR LIVE LOADS:
   ALL INTERIOR SPACES AND STAIRS: 100 PSF
3. DESIGN ROOF SNOW LOAD:
   GROUND SNOW LOAD (Pg): 60 PSF
   SNOW EXPOSURE FACTOR (Ce): 1.0
   SNOW LOAD IMPORTANCE FACTOR (Is): 1.0
   SNOW LOAD THERMAL FACTOR (Ct): 1.1
   FLAT ROOF SNOW LOAD (Pf): 46.2 PSF + DRIFT
4. DESIGN WIND LOAD:
   BASIC WIND SPEED: 100 MPH
   WIND LOAD IMPORTANCE FACTOR (Iw): 1.0
   WIND EXPOSURE: B
   INTERNAL PRESSURE COEFFICIENT: ±0.18
   COMPONENTS & CLADDING PER ASCE 7-05
5. DESIGN SEISMIC LOADS:
   EQUIVALENT LATERAL FORCE PROCEDURE
   SEISMIC OCCUPANCY CATEGORY: II
   SEISMIC IMPORTANCE FACTOR (Ie): 1.0
   MAPPED SPECTRAL RESPONSE ACCELERATIONS:
   Ss: 0.314
   S1: 0.077
   SEISMIC SITE CLASS: C
   SPECTRAL RESPONSE COEFFICIENTS:
   Sds: 0.251
   Sd1: 0.087
   SEISMIC DESIGN CATEGORY: B
   BASIC STRUCTURAL SYSTEM: BUILDING FRAME SYSTEM
   BASIC SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE (R=3)
   RESPONSE MODIFICATION FACTOR (R): 3.0
   SEISMIC RESPONSE COEFFICIENT (Cs): 0.084

FOUNDATION NOTES (SOIL SUPPORTED)

1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH A REPORT ENTITLED "GEOTECHNICAL REPORT, UNE DENTAL SCHOOL BUILDING, STEVENS AVENUE, PORTLAND, MAINE", PREPARED BY SUMMIT GEOENGINEERING SERVICES, DATED JANUARY 2012. THE RECOMMENDATIONS OF THE REPORT ARE PART OF THIS WORK. REFER TO THIS REPORT FOR SPECIFIC RECOMMENDATIONS.
2. FOUNDATION DESIGN IS BASED ON SHALLOW SPREAD FOOTINGS BEARING ON SUITABLE UNDISTURBED NATIVE SOILS AND/OR NEW COMPACTED STRUCTURAL FILL EXTENDING TO UNDISTURBED NATIVE SOIL PER THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. REFER TO THIS REPORT FOR SPECIFIC BEARING RECOMMENDATIONS.
3. ALLOWABLE BEARING CAPACITY 4,000 PSF
4. EXTEND BOTTOM OF EXTERIOR FOOTINGS AT LEAST 4.0 FEET BELOW THE FINAL EXTERIOR GRADE FOR PROTECTION AGAINST FROST.
5. NO FILL FOR BUILDING SUPPORT SHALL BE PLACED UNTIL UPGRADES HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
6. REFERENCE THE GEOTECHNICAL REPORT FOR ALL EXCAVATION, BACKFILL, COMPACTION, CONSTRUCTION DEWATERING AND PERMANENT DRAINAGE REQUIREMENTS.
7. SOILS EXPOSED AT THE BASE OF ALL SATISFACTORY FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION, SUCH AS DISTURBANCE FROM RAIN OR FROST. SURFACE RUNOFF SHALL BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND. FOUNDATION EXCAVATIONS SHALL BE ADEQUATELY PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. GROUNDWATER SHOULD BE ANTICIPATED FOR EXCAVATIONS AND APPROPRIATE DEWATERING MEASURES SHALL BE EMPLOYED.
8. EXCAVATIONS FOR BUILDING CONSTRUCTION SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. BRACED EXCAVATIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MAINE. DO NOT UNDERMINE EXISTING FOUNDATIONS OF ANY ADJACENT STRUCTURES. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL AND/OR MORE SPECIFIC REQUIREMENTS.

CONCRETE NOTES

1. CONCRETE WORK SHALL CONFORM TO "ACI MANUAL OF CONCRETE PRACTICE", LATEST EDITION. THIS PUBLICATION IS AVAILABLE THROUGH THE AMERICAN CONCRETE INSTITUTE (248) 848-3800.
2. ALL CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI, U.N.O. EXTERIOR SLAB-ON-GRADE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,500 PSI. ADDITIONAL CONCRETE MIX PERFORMANCE DATA INCLUDING AIR CONTENT, WATER-CEMENT RATIO, AGGREGATE SIZE, SLUMP, ETC. HAS BEEN INCLUDED IN THE PROJECT SPECIFICATIONS. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
4. PROVIDE PVC SLEEVES WHERE PIPES PASS THROUGH EXTERIOR CONCRETE, OR SLABS.
5. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315, LATEST EDITION.
6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND BE PROVIDED IN FLAT SHEETS.
7. FIBER REINFORCEMENT SHALL BE TYPE III SYNTHETIC VIRGIN HOMOPOLYMER POLYPROPYLENE FIBERS CONFORMING TO ASTM C1116.
8. MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:

   A.SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH, 3.0"
   B.FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
   #5 BARS, 5/8" DIAMETER WIRE AND SMALLER, 1.5"
   #6 THROUGH #11 BARS, 2.0"
   C.SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
   WALLS, SLABS, JOISTS #11 BARS AND SMALLER, 1.0"
   BEAMS, GIRDERS, AND COLUMNS; ALL REINFORCEMENT, 1.5"
9. REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS. PROVIDE LAPPED BARS AT NECESSARY SPLICES OR HOOKED BARS AT DISCONTINUOUS ENDS. PROVIDE TENSION LAP SPLICES PER THE SCHEDULE DWG S2.1, FOR ALL REINFORCING UNLESS OTHERWISE SHOWN ON PLAN.
10. WELDING OF REINFORCEMENT IS NOT PERMITTED
11. FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENING AS SHOWN ON THE CONTRACT DOCUMENTS TYPICAL DETAILS. NO PENETRATIONS SHALL BE MADE THROUGH FOOTINGS WITHOUT WRITTEN PERMISSION FROM ENGINEER.
12. CONSTRUCTION JOINTS SHOWN ON DRAWINGS ARE MANDATORY. OMISSIONS, ADDITIONS, OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SUBMITTAL OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE STRUCTURAL ENGINEER. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, OR WHEN ALTERNATE LOCATIONS ARE PROPOSED, DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS. CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED. VERTICAL CONSTRUCTION JOINTS AND STOPS IN CONCRETE BEAMS/ GRADE BEAMS SHALL BE MADE AT MIDSPAN OR AT POINTS OF MINIMUM SHEAR, UNLESS NOTED OTHERWISE.
13. SPACING OF CONSTRUCTION JOINTS, UNLESS NOTED OTHERWISE SHALL BE AS FOLLOWS:
   A.FOOTINGS AND WALLS
   MAX LENGTH 40'-0" OR 15'-0" FROM ANY CORNER**
   B.SLABS CON GRADE
   SEE FOUNDATION PLAN

** EXCEED ONLY WHERE INTERMEDIATE CONTRACTION JOINTS ARE PROVIDED. MINIMUM OF 72 HOURS SHALL ELAPSE BETWEEN ADJACENT CONCRETE PLACEMENTS.

14. ANCHOR RODS SHALL BE HEADED RODS CONFORMING TO ASTM F1554, GRADE 36 KSI WELDABLE STEEL, UNLESS NOTED OTHERWISE ON DRAWINGS. ANCHOR RODS THAT ARE TO BE IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED.
15. ALL GROUT BENEATH BASE PLATES & BEARING PLATES SHALL BE "5-STAR" 5000-PSI NON-SHRINK GROUT BY U.S. GROUT CORP.
16. SLAB THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUMS. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR STRUCTURE DEFLECTION, SUBGRADE FLUCTUATIONS, AND TO OBTAIN THE SPECIFIED SLAB ELEVATION AT THE FLATNESS AND LEVELNESS INDICATED.
17. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION OF REINFORCEMENT.
18. ALL ITEMS TO BE EMBEDDED INTO CONCRETE SHALL BE INSTALLED PRIOR TO PLACEMENT OF CONCRETE. PROVIDE ADDITIONAL REINFORCEMENT AND/OR TEMPLATES AS REQUIRED TO ENSURE THE CORRECT POSITIONS OF EMBEDMENTS. "WET SETTING" OF EMBEDMENTS INTO CONCRETE IS STRICTLY PROHIBITED. EMBEDMENTS INCLUDE, BUT NOT BY LIMITATION, REINFORCEMENT, REINFORCING DOWELS, EMBEDDED PLATES, ANCHOR RODS, ANCHOR INSERTS, SLEEVES, LOAD TRANSFER PLATES, DIAMOND DOWELS, AND SHELF BULK HEADS.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN FABRICATIONS, AND ERECTION OF STRUCTURAL STEEL" LATEST EDITION, AND THE "CODE OF STANDARD PRACTICE", LATEST EDITION.
2. STRUCTURAL STEEL: STEEL PLATES, SHAPES, AND BARS, CONFORM TO ASTM A36 UNLESS NOTED OTHER WISE (U.N.O.). STRUCTURAL STEEL SHAPES DESIGNATED ON THE DRAWINGS FOR WIDE-FLANGE SECTIONS: ASTM A992 (ASTM A572 GRADE 50 WITH SPECIAL REQUIREMENTS PER AISC TECHNICAL BULLETIN #3 DATED MARCH, 1997)
3. STRUCTURAL TUBING: CONFORM TO ASTM A500 GRADE B46 KSI.
4. FIELD CONNECTIONS SHALL BE BOLTED USING ASTM A325N HIGH STRENGTH BOLTS (U.N.O.) EXCEPT WHERE SLIP CRITICAL CONNECTIONS ARE REQUIRED AND NOTED BY A325 (SC) ON THE DRAWINGS. PROVIDE SLIP CRITICAL (SC) CONNECTIONS AT ALL MOMENT CONNECTIONS, BRACED FRAMES, RELIEVING ANGLES AND AS OTHERWISE NOTED. USE A490 BOLTS WHERE INDICATED.
5. WHERE WELDING IS INDICATED, ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION. ELECTRODES SHALL CONFORM TO AWS A5.1 E70XX SERIES WITH PROPER ROD TO PRODUCE OPTIMUM WELD (LOW HYDROGEN)
6. SEE CONCRETE NOTES AND DRAWINGS FOR ANCHOR BOLT INFORMATION, TYP.
7. PROVIDE 3/8" MINIMUM STIFFENER PLATES EACH SIDE OF BEAM WEB AT BEAMS FRAMING OVER COLUMNS AND AT BEAMS SUPPORTING COLUMNS ABOVE.
8. PROVIDE ¼" THICK LEVELING PLATE UNDER ALL COLUMN BASE PLATES UNLESS OTHERWISE NOTED. LEVELING PLATES SHALL BE SET AND GROUTED PRIOR TO ERECTING COLUMNS.
9. PROVIDE ALL MISCELLANEOUS ANGLES, PLATES, ANCHOR BLOTS ETC., SHOWN ON ARCHITECTURAL DRAWINGS FOR SUPPORT OF BLOCKING, PARAPETS, FINISHES, ETC. COORDINATE WITH MISCELLANEOUS METAL FABRICATOR TO ENSURE COMPLETE COVERAGE OF ALL ITEMS.
10. PROVIDE L 4 x 4 x 1/4 SLAB SUPPORT ANGLE AS REQUIRED AT COLUMNS WHERE STRUCTURAL MEMBERS DO NOT FRAME IN AT ALL FOUR SIDES.

OPEN WEB STEEL JOISTS NOTES

1. DESIGN, DETAIL, FABRICATE AND ERECT STEEL JOISTS IN ACCORDANCE WITH THE LATEST EDITION OF STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI)
2. HANGERS FOR DUCTS, PIPES, UNITS, ETC., MUST BE ATTACHED TO JOISTS AT PANEL POINTS ONLY. EXCEPT WHERE DESIGNATED ON "SP" JOISTS, IN NO CASE SHALL ANY SINGLE POINT LOAD EXCEED 300 LBS.
3. PROVIDE BRIDGING AND BRIDGING ANCHORAGE IN ACCORDANCE WITH SJI SPECIFICATIONS. PROVIDE ADDITIONAL BRIDGING FOR UPLIFT FOR ROOF JOINTS WHERE REQUIRED BY SJI SPECIFICATIONS.

MASONRY NOTES

1. ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.1-LATEST.
2. ALL CONCRETE MASONRY UNITS WALL BE ASTM C90 GRADE N, TYPE I STANDARD WEIGHT BLOCKS INCLUDING STRETCHERS AND CORNER BLOCKS. MINIMUM PRISM STRENGTH OF BLOCK SHALL BE F'M = 1500 PSI IN 28 DAYS.
3. MORTAR SHALL CONFORM TO ASTM SPECIFICATION C270, TYPE M OR S
4. GROUT SHALL CONFORM TO ASTM-C476
5. REINFORCING FOR BOND BEAMS, LINTEL BLOCKS AND VERTICAL WALL REINFORCING SHALL BE BILLET STEEL CONFORMING TO ASTM A615, GRADE 60
6. HORIZONTAL JOINT REINFORCING SHALL BE DUR-O-WAL TRUSS DESIGN, STANDARD CLASS MILL GALVANIZED WITH 3/16" DIAMETER SIDE RODS AND 9 GAUGE CROSS TIES, U.N.O. REINFORCING SHALL BE PLACED IN MASONRY WALLS AT EVERY SECOND BLOCK COURSE.
7. CONCRETE MASONRY UNITS SHALL BE LAID IN RUNNING BOND UNLESS OTHERWISE NOTED. PROVIDE FULL MORTAR COVERAGE ON ALL WEBS AND FACE SHELLS. PROVIDE CORNER BLOCKS AND END BLOCKS TO FINISH ALL 90 DEGREE CORNERS AND WALL OPENINGS.
8. PROVIDE LINTELS AT WALL PENETRATIONS AS SHOWN IN THE LINTEL SCHEDULE.
9. STANDARD LAP LENGTH OF GRADE 60 MASONRY REINFORCING BARS SHALL BE 48 BAR DIAMETERS FOR BARS #5 AND SMALLER. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCEMENT.
10. CELLS TO BE GROUTED SHALL BE 2-CELL BLOCK. ALIGN CELLS TO MAINTAIN A CLEAR UNOBSTRUCTED, CONTINUOUS VERTICAL CHASE. CELLS MUST BE KEPT CLEAN OF PROTRUSIONS OR FINS OF MORTAR. FILL CELLS OF MASONRY UNITS AND WALL CAVITIES WHERE INDICATED WITH 2500 PSI GROUT. MAXIMUM GROUT LIFT WITHOUT CLEAN-OUTS SHALL BE 4'-0". HIGH LIFT GROUTING SHALL CONFORM TO CODE REQUIREMENTS WITH A MINIMUM CEMENT CONTENT OF 8 SACKS PER CUBIC YARD. SUPPORT ALL VERTICAL BARS IN CENTER OF GROUTED CELLS WITH VERTICAL BAR POSITIONER.
11. FIELD PENETRATIONS THROUGH BLOCK WALLS SHALL NOT BE MADE THROUGH BOND BEAMS, LINTELS OR GROUTED CELLS.

METAL DECK

1. THE METAL ROOF AND FLOOR DECK SHALL BE FORMED OF STEEL SHEETS CONFORMING TO ASTM STANDARD A611.
2. FLOOR AND ROOF DECK SHALL BE AS NOTED ON THE DRAWINGS (OR EQUIVALENT).
3. FOR DECK ATTACHMENTS, PENETRATIONS AND ACCESSORIES REFER TO SPECIFICATIONS.

LINTELS

1. THE FOLLOWING LINTELS SHALL BE USED FOR MASONRY OPENINGS, U.N.O. ON DRAWINGS:

MASONRY OPENING	LINTEL SIZE
UP TO 3'-0"	L 3 1/2 x3 1/2 x 5/16
3'-1" TO 4'-6"	L 4 x 3 1/2 x 5/16 (LLV)
4'-7" TO 6'-0"	L 5 x 3 1/2 x 5/16 (LLV)
6'-1" TO 8'-0"	L 6 x 3 1/2 x 5/16 (LLV)

2. PROVIDE ONE ANGLE FOR EACH 4" WALL THICKNESS. FOR 6" WALL THICKNESS, PROVIDE WT OR BUILT-UP SECTION WITH PROPERTIES EQUAL TO OR GREATER THAN 1 ½ TIMES THE ANGLES PROPERTIES FOR A 4" WALL THICKNESS.
3. PROVIDE 8" OF BEARING AT EACH END OF ALL LINTELS.
4. ALL EXTERIOR LINTELS SHALL BE HOT-DIPPED GALVANIZED.

WOOD TRUSS NOTES

GENERAL

1. TRUSSES SHALL BE DESIGNED, FABRICATED, ERECTED, AND BRACED IN ACCORDANCE WITH LATEST EDITION OF THE WTCA/TPI BCSI 1 BOOKLET AS NOTED IN THE NOTES AND SPECIFICATIONS AND ALL OTHER APPLICABLE CODES.
2. ERECTION AND TEMPORARY BRACING SHALL CONFORM TO WTCA/TPI BCSI 1-LATEST EDITION.

DESIGN

1. SEE ROOF FRAMING PLAN FOR TRUSS ORIENTATION AND LOCATIONS
2. SEE ARCHITECT FOR ALL TRUSS PROFILES AND DIMENSIONS.
3. TEMPORARY BRACING SHALL BE LEFT IN PLACE AND SERVE AS PART OF THE PERMANENT BRACING SYSTEM.
4. PERMANENT CONTINUOUS LATERAL BRACING, INDICATED BY THE TRUSS DESIGNER, WILL BE REVIEWED DURING THE SHOP DRAWING PHASE. DIAGONAL STRUTS AND CONNECTIONS INDICATED ON SHOP DRAWINGS SHALL BE APPLIED UNLESS NOTIFIED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.
5. TRUSS DESIGNER SHALL DESIGN TRUSS TO MINIMIZE CONTINUOUS LATERAL BRACING REQUIRED TO BE INSTALLED IN THE FIELD.
6. TRUSS DESIGNER SHALL PROVIDE ALL CONNECTION DESIGN FOR TRUSS TO TRUSS CONNECTIONS.
7. PROVIDE GABLE END TRUSSES WITH VERTICALS AT 16" O.C. CALCULATE WIND LOADS PER CRITERIA INDICATED IN THE DRAWINGS & NOTES.
8. ALL TRUSSES SHALL BE DESIGNED FOR UNBALANCED LOADS.

SUBMITTALS

1. TRUSS MANUFACTURER SHALL SUBMIT A TRUSS PLACEMENT DRAWING INDICATING THE FOLLOWING.
   A.SLOPE
   B.SPAN
   C.SPACING
   D.TRUSS NUMBER THAT CORRESPONDS TO TRUSS DESIGN DRAWING.
   E.LOCATION OF PERMANENT LATERAL BRACING. (ALTERNATIVE: LOCATION OF BRACING SHALL BE INDICATED ON THE TRUSSES BY EITHER A TAG OR A PAINT MARK.)
2. TRUSS DESIGN DRAWINGS/CALCULATIONS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF MAINE.
3. TRUSS DESIGN DRAWINGS SHALL INCLUDE THE FOLLOWING:

   A.SLOPE, SPAN, AND SPACING.
   B.LOCATIONS OF ALL JOINTS.
   C.REQUIRED BEARING WIDTHS.
   D.CHORD AND WEB MEMBER SIZE, GRADE, AND SPECIES.
   E.CALCULATED HORIZONTAL DEFLECTION AND VERTICAL DEFLECTION.
   F.MAXIMUM AXIAL AND COMPRESSION FORCES IN EA OF THE TRUSS MEMBERS TO ENABLE THE BUILDING DESIGNER TO REVIEW THE SIZE, CONNECTIONS, AND ANCHORAGE OF PERMANENT CONTINUOUS LATERAL BRACING.
   G.REQUIRED PERMANENT TRUSS BEARING LOCATIONS.

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REVISIONS

No.	Description	Date

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

GENERAL NOTES

Project Number	2750
Date	05/10/12
Drawn by	APP
Checked by	DSB

S1.0

Scale 1/16" = 1'-0"

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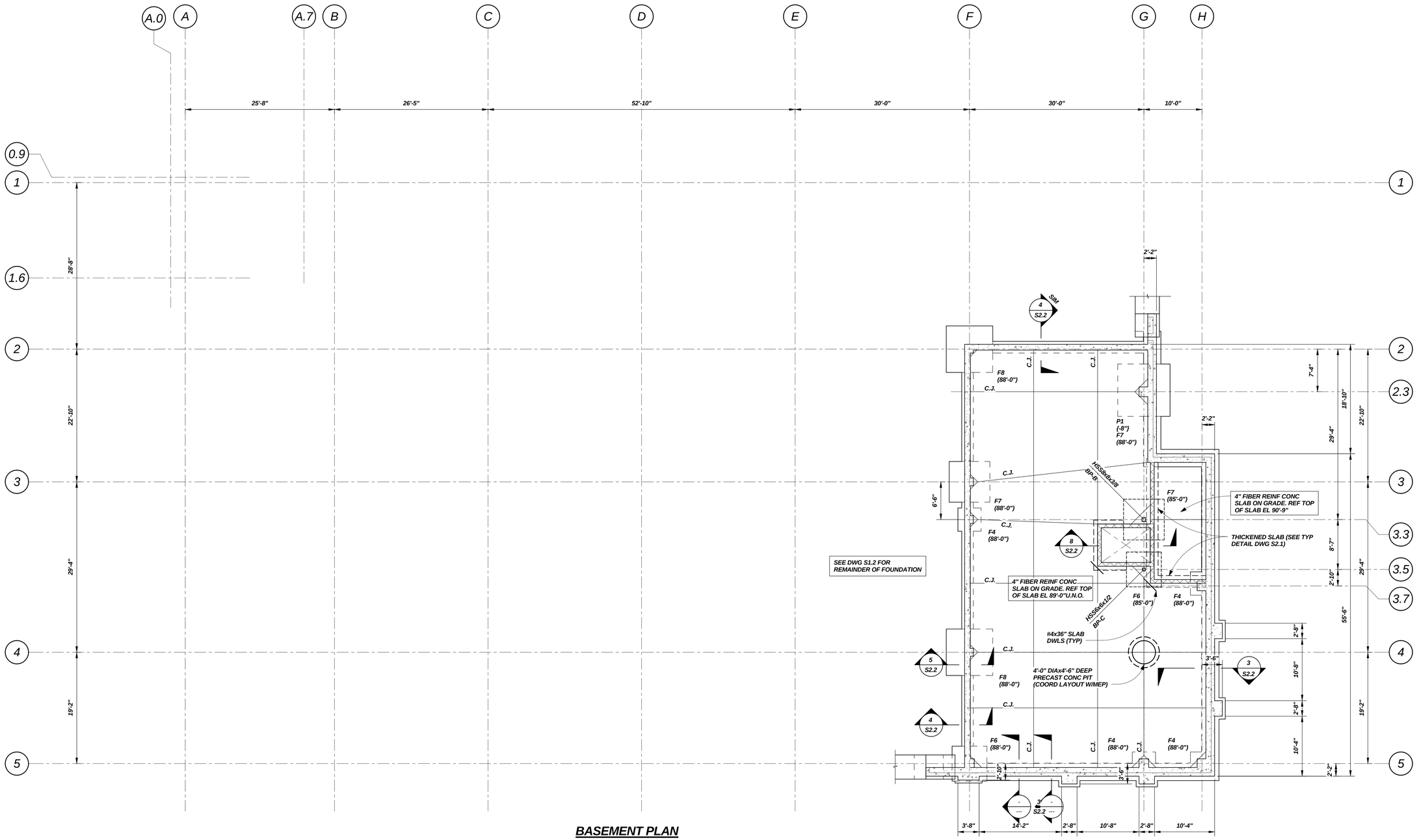

BASEMENT PLAN

1/8"=1'-0

NOTES:

1. P1, P2, ETC. INDICATES PIER TYPE. SEE DWG S2.2 FOR DETAILS. TOP OF PIER EL 99'-4" UNLESS NOTED BY {XX"}.
2. F4, F6, ETC. INDICATES FOOTING TYPE. SEE FOOTING SCHEDULE THIS DWG. TOP OF FOOTING EL NOTED BY (XX'-XX").
3. C.J. INDICATES SLAB CONTRACTION/CONSTRUCTION JOINT. SEE DETAILS DWG S2.1.
4. S.K. INDICATES SHEAR KEY BONDOUT. SEE DETAILS DWG S3.2.
5. BP-A, BP-B, ETC INDICATES BASE PLATE TYPE. SEE DETAILS DWG S3.2.
6. COORD ALL FLOOR DRAINS (W/ASSOCIATED SLOPES) AND EQUIPMENT PADS WITH MEP AND ARCH DWGS.

FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINF EACH WAY BOT U.N.O.
F4	4'-0"x4'-0"x1'-0"	4#5
F5	5'-0"x5'-0"x1'-0"	5#5
F6	6'-0"x6'-0"x1'-2"	6#6
F7	7'-0"x7'-0"x1'-6"	7#6
F8	8'-0"x8'-0"x1'-10"	8#6

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REVISIONS

No.	Description	Date

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

BASEMENT PLAN

Project Number	2750
Date	05/10/12
Drawn by	APP
Checked by	DSB

S1.1

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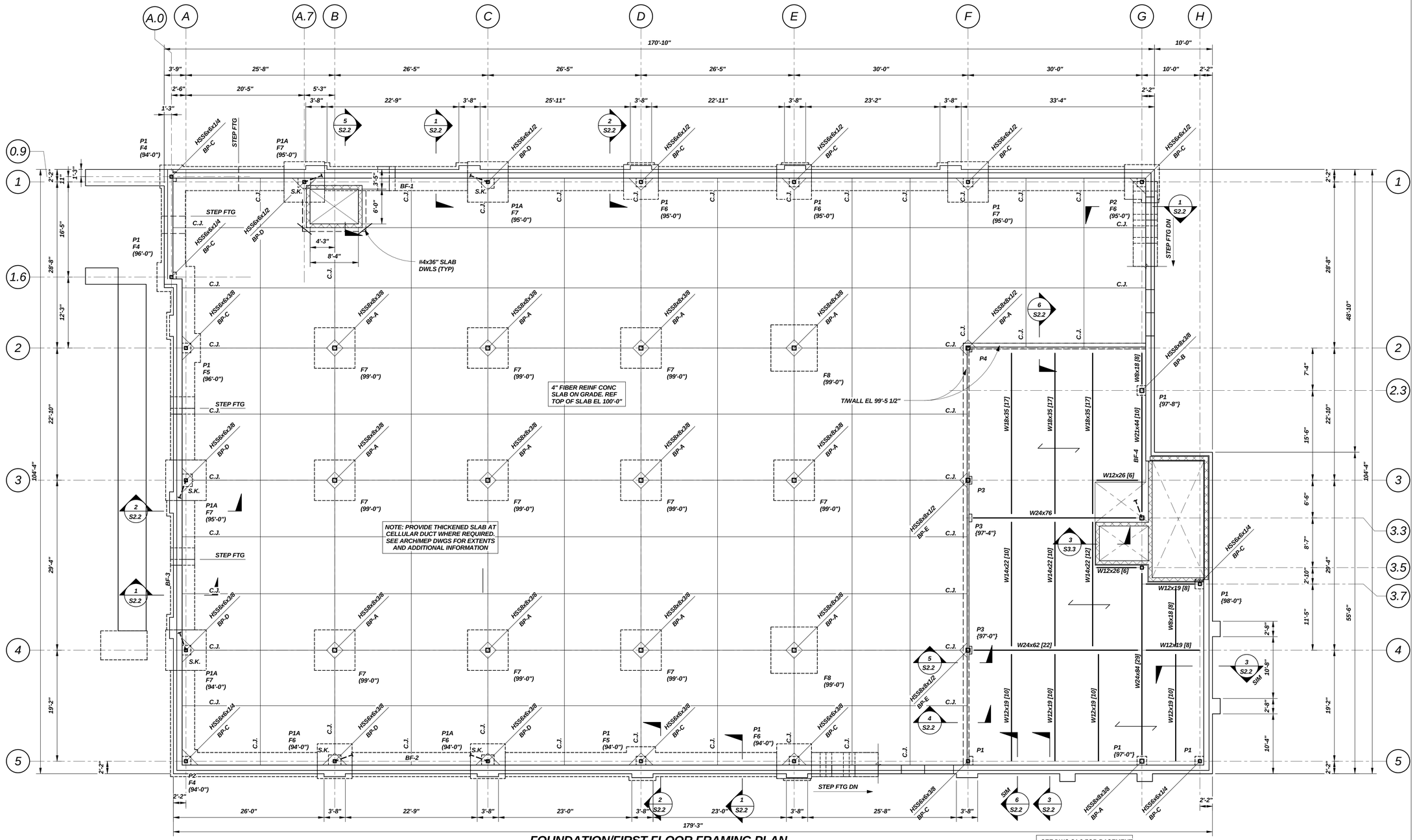

FOUNDATION/FIRST FLOOR FRAMING PLAN

1/8"=1'-0

SEE DWG S1.2 FOR BASEMENT FOUNDATION INFO.

FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINF EACH WAY BOT U.N.O.
F4	4'-0"x4'-0"x1'-0"	4#5
F5	5'-0"x5'-0"x1'-0"	5#5
F6	6'-0"x6'-0"x1'-2"	6#6
F7	7'-0"x7'-0"x1'-6"	7#6
F8	8'-0"x8'-0"x1'-10"	8#6

FOUNDATION NOTES:

1. TOP OF WALL EL 100'-0" U.N.O.
2. P1, P2, ETC. INDICATES PIER TYPE. SEE DWG S2.2 FOR DETAILS. TOP OF PIER EL 99'-4" UNLESS NOTED BY (XX").
3. F4, F6, ETC. INDICATES FOOTING TYPE. SEE FOOTING SCHEDULE THIS DWG. TOP OF FOOTING EL NOTED BY (XX'-XX").
4. C.J. INDICATES SLAB CONTRACTION/CONSTRUCTION JOINT. SEE DETAILS DWG S2.1.
5. S.K. INDICATES SHEAR KEY BONDOUT. SEE DETAILS DWG S2.2 & S3.2.
6. BP-A, BP-B, ETC INDICATES BASE PLATE TYPE. SEE DETAILS DWG S3.2.
7. COORD ALL FLOOR DRAINS (W/ASSOCIATED SLOPES) AND EQUIPMENT PADS WITH MEP AND ARCH DWGS.

FLOOR FRAMING NOTES:

1. INDICATES SPAN DIRECTION OF 6 1/2" NORMAL WEIGHT CONCRETE SLAB ON 2VLI20 COMPOSITE DECK W/6x6-W1.4xW1.4 W.W.F. (4 1/2" CONCRETE FILL OVER 2" DECK, 3 SPAN MIN). CONCRETE THICKNESS IS MINIMUM. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR STRUCTURE DEFLECTION. SEE SPECIFICATIONS.
2. TOP OF SLAB EL 100'-0"
3. TOP OF STEEL EL 99'-5 1/2"
4. [10], [12], ETC. INDICATES NUMBER OF 3/4" DIA x5" HEADED STUDS SPACED UNIFORMLY ALONG BEAM SPAN OR BETWEEN CONCENTRATED LOADS U.N.O.
5. BF-1, BF-2, ETC. INDICATES VERTIVAL BRACING. SEE BRACING ELEVATIONS DWG S1.5.
6. BEAMS TO PLACED AT EQUAL SPACES BETWEEN COLUMN LINES UNLESS OTHERWISE NOTE.
7. FOR COMPOSITE BEAM END REACTIONS, SEE SIMPLE BEAM CONNECTION SCHEDULE DWG S3.1.
8. ALL STAIR STRUCTURES SHALL BE DESIGNED BY THE STRUCTURAL STEEL FABRICATOR IN ACCORDANCE WITH THE 2009 INTERNATIONAL BUILDING CODE (IBC). STAIRS AND LANDINGS SHALL BE DESIGNED FOR A 100PSF LIVE LOAD. COORDINATE ALL DETAILS WITH ARCHITECTURAL DRAWINGS AND SUBMIT DRAWING FOR REVIEW. DESIGN SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MAINE.

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REVISIONS

No.	Description	Date

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

FIRST FLOOR FOUNDATION

Project Number	2750
Date	05/10/12
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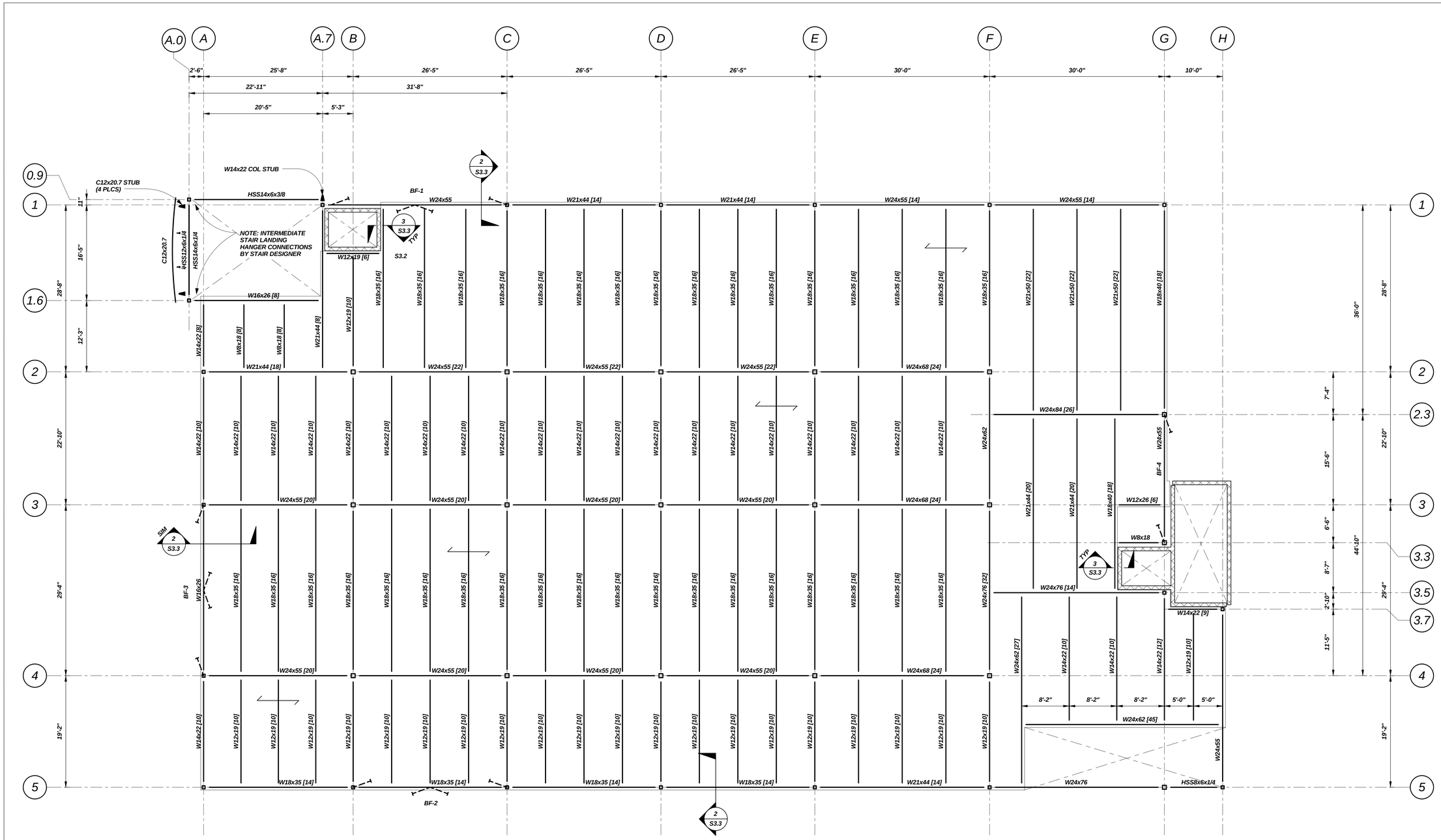

SECOND FLOOR FRAMING PLAN

1/8"=1'-0"

FLOOR FRAMING NOTES:

1. INDICATES SPAN DIRECTION OF 6 1/2" NORMAL WEIGHT CONCRETE SLAB ON 2VLI20 COMPOSITE DECK W/6x6-W1.4xW1.4 W.W.F. (4 1/2" CONCRETE FILL OVER 2" DECK, 3 SPAN MIN). CONCRETE THICKNESS IS MINIMUM. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR STRUCTURE DEFLECTION. SEE SPECIFICATIONS.
2. TOP OF SLAB EL 115'-6"
3. TOP OF STEEL EL 114'-11 1/2"
4. [10], [12], ETC. INDATES NUMBER OF 3/4" DIA x5" HEADED STUDS SPACED UNIFORMLY ALONG BEAM SPAN OR BETWEEN CONCENTRATED LOADS U.N.O.
5. BF-1, BF-2, ETC. INDICATES VERTIVAL BRACING. SEE BRACING EEVATIONS DWG S1.5.
6. BEAMS TO PLACED AT EQUAL SPACES BETWEEN COLUMN LINES UNLESS OTHERWISE NOTE.
7. FOR COMPOSITE BEAM END REACTIONS, SEE SIMPLE BEAM CONNECTION SCHEDULE DWG S3.1.
8. ALL STAIR STRUCTURES SHALL BE DESIGNED BY THE STRUCTURAL STEEL FABRICATOR IN ACCORDANCE WITH THE 2009 INTERNATIONAL BUILDING CODE (IBC). STAIRS AND LANDINGS SHALL BE DESIGNED FOR A 100PSF LIVE LOAD. COORDINATE ALL DETAILS WITH ARCHITECTURAL DRAWINGS AND SUBMIT DRAWING FOR REVIEW. DESIGN SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MAINE.

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No.	Description	Date

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

2ND FLOOR FRAMING

Project Number	2750
Date	05/10/12
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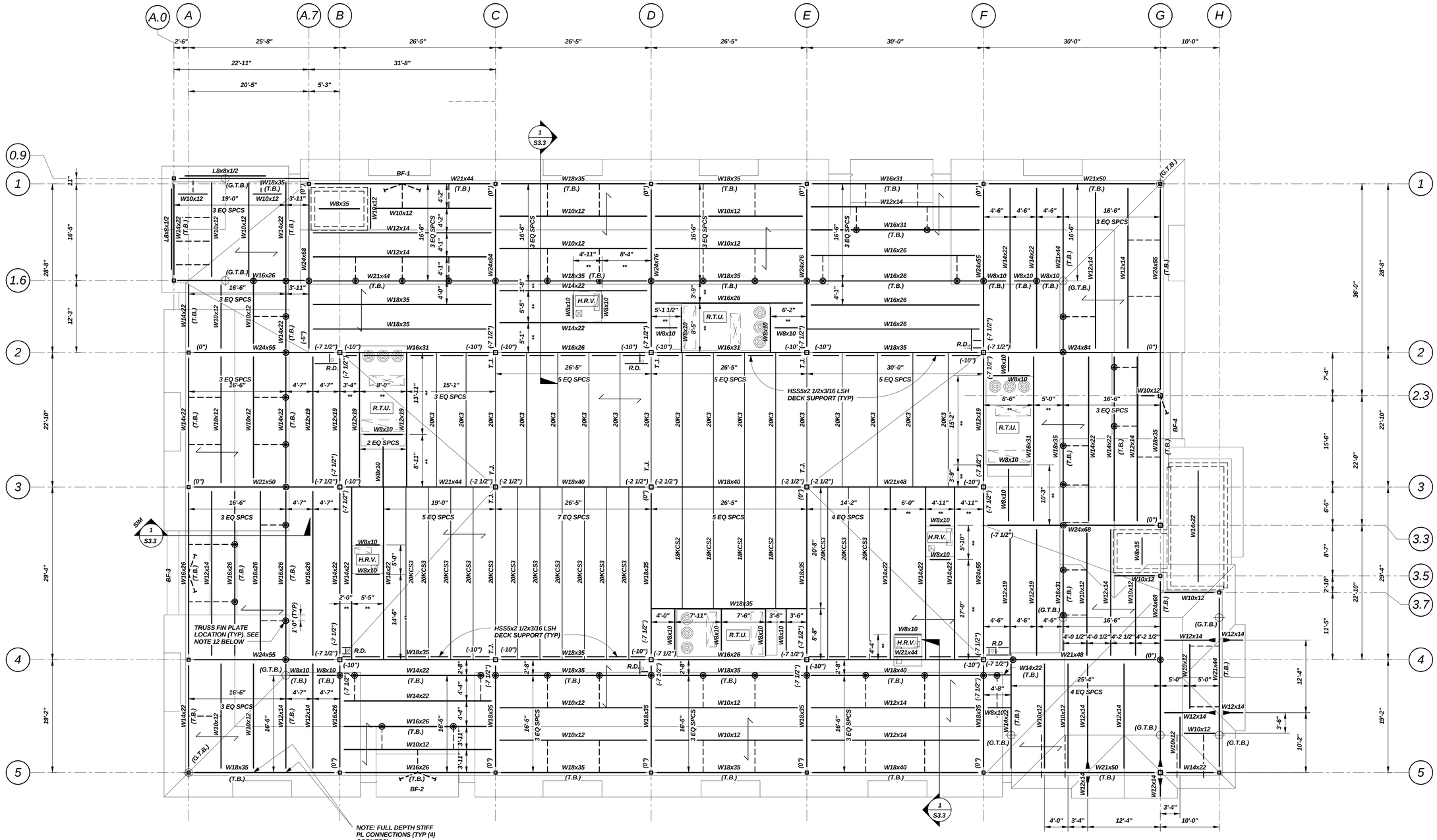

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ROOF FRAMING PLAN

1/8"=1'-0"

NOTES:

1. TOP OF STEEL EL: 130'-0", U.N.O. BY (-XX")
2. ⟷ INDICATES SPAN DIRECTION OF 1 1/2", TYPE B, 18 GA ROOF DECK, (2) SPAN MIN.
3. PROVIDE ALL JOIST BRIDGING PER STEEL JOIST INSTITUTE SPECIFICATIONS.
4. – – – – INDICATES VERTICAL BRACING. SEE DWG S1.5 FOR ADDL INFO.
5. ► INDICATES MOMENT CONNECTION.
6. INDICATES MECH UNIT. ROOF DECK CONTINUOUS UNDER UNITS EXCEPT AT DUCT OPENINGS. SEE TYP ROOF DECK OPENING DETAIL. ROOF FRAMES MAY BE REQUIRED AT ROOF DRAINS. (SEE ARCH/MECH FOR LOCS). SEE CRITERIA IN TYP ROOF DECK OPENING DETAIL.
7. ** INDICATES DIMENSION TO BE COORDINATED WITH MEP REQUIREMENTS.
8. T.J. INDICATES TIE JOIST.
9. R.D. INDICATES ROOF DRAIN-COORD WITH ARCH & PLUMBING.
10. (T.B.) INDICATES OVERFRAME TRUSS BEARING BEAM. SEE SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.
11. (G.T.B.) INDICATES DESIGNED LOCATION OF OVERFRAME GIRDER TRUSS BEARING LOCATIONS.
12. ⊕ INDICATES TRUSS FIN PLATE LOCATION. 1'-0" FROM END OF EACH RUN, AT EACH GIRDER, & TYPICALLY 1/3rd PTS OF BAY. (10'-0" O.C. MAX.) SEE SECTION 1/S3.3.

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REVISIONS

No.	Description	Date

UNIVERSITY OF NEW ENGLAND
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PATIENT CARE CENTER
EXTERIOR SHELL

ROOF FRAMING

Project Number	2750
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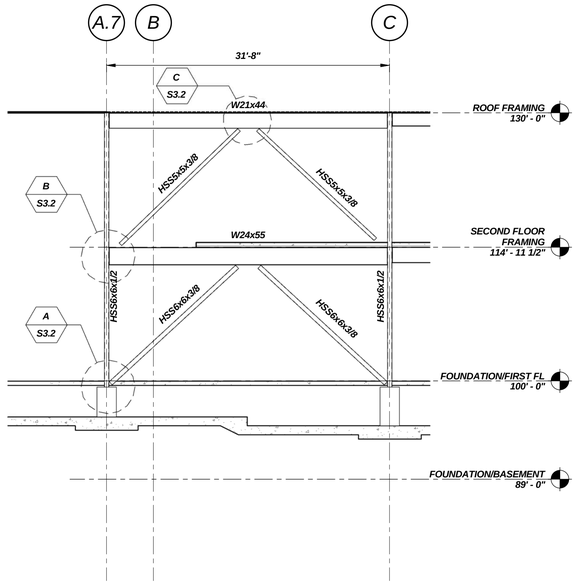

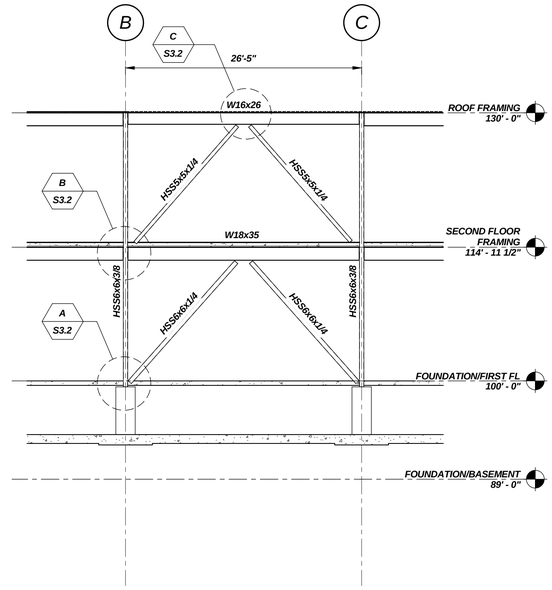

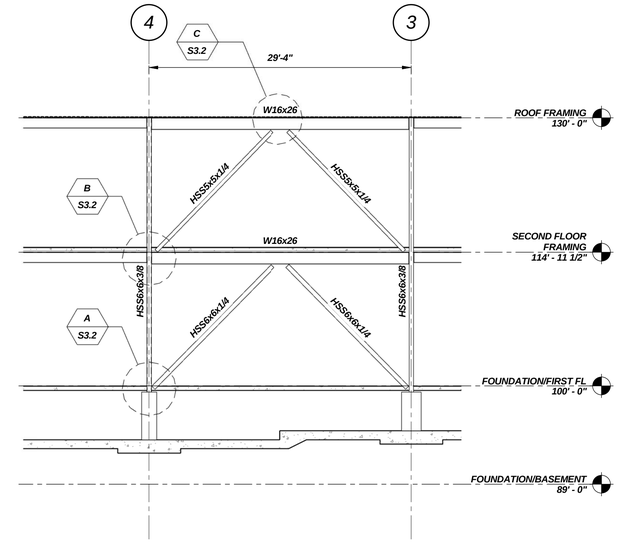

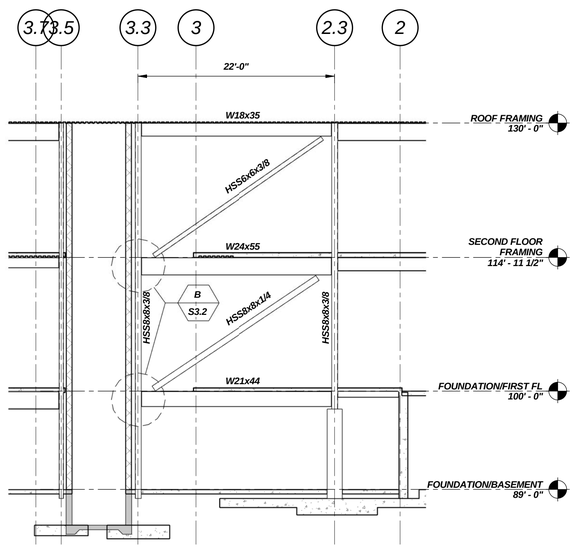

BRACING ELEVATIONS

NOTES:

1. SEE BRACING CONNECTION SCHDULE AND DETAILS DWG S3.2.

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REVISIONS

No.	Description	Date

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

BRACING ELEVATIONS

Project Number	2750
Date	05/10/12
Drawn by	APP
Checked by	DSB

S1.5

Scale	As indicated

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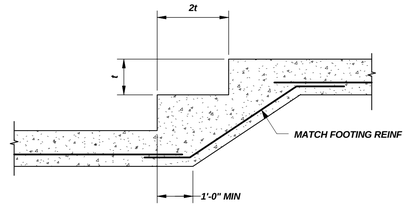
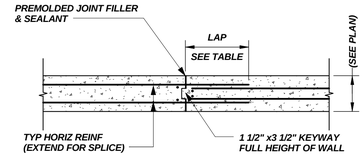
REBAR LAP SPLICE TABLE

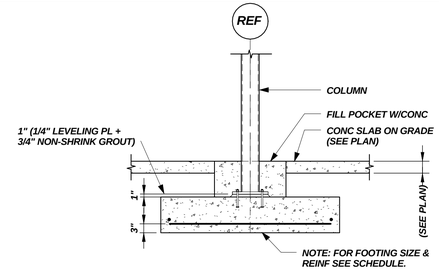
BAR SIZE	LAP LENGTH		
	3,000 PSI	3,500 PSI	4,000+ PSI
#3	30"	28"	24"
#4	36"	34"	32"
#5	48"	45"	42"
#6	56"	52"	48"
#7	81"	78"	72"
#8	93"	88"	80"



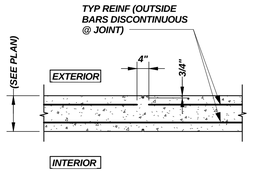
TYP STEPPED FOOTING DETAIL
N.T.S.



TYP CONSTRUCTION JOINT IN WALL
N.T.S.



TYP INTERIOR FOOTING DETAIL
N.T.S.



TYP CONTRACTION JOINT IN WALL
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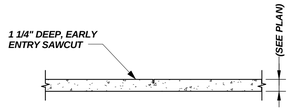

4" SLAB ON GRADE CONTRACTION JOINT DETAIL
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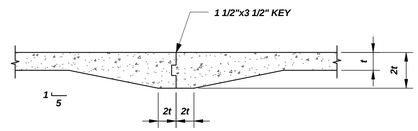
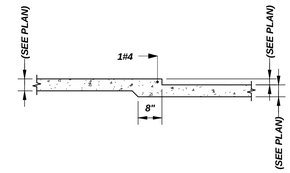


TYP SLAB ON GRADE CONST JOINT DETAIL
N.T.S. t = SLAB THICKNESS



TYP SLAB ON GRADE DEPRESSION DETAIL
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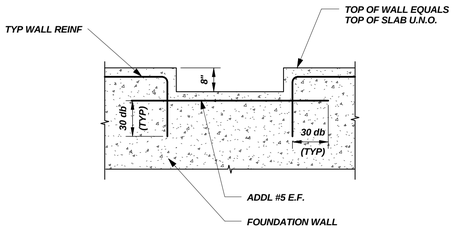
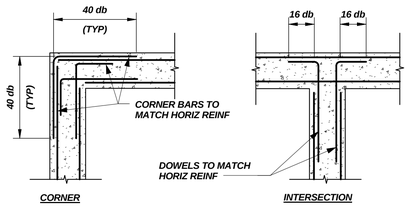
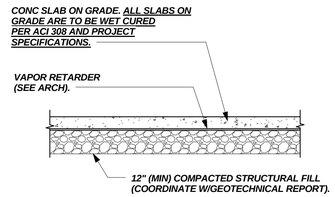


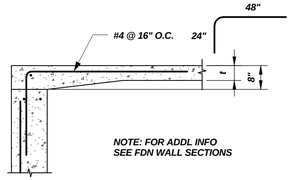
TYP WALL DEPRESSION DETAIL @ DOOR
N.T.S.



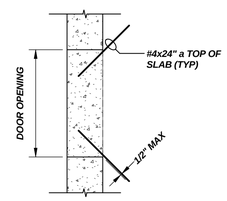
TYP WALL REINF DETAILS



TYP SLAB DETAIL
N.T.S.

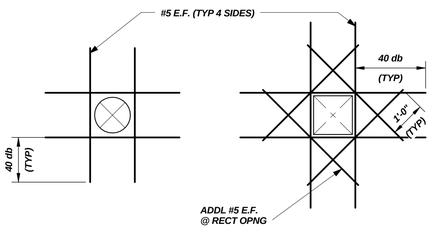


TYPICAL SLAB DETAIL AT DOOR
N.T.S. t = SLAB THICKNESS

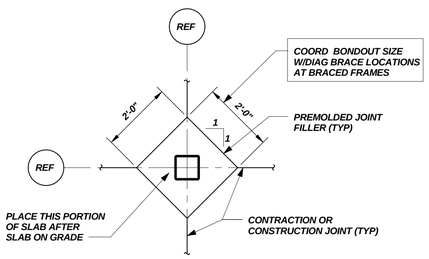


NOTE: ALSO PROVIDE #4x24" (TOP) IN SLAB @ INSIDE RE-ENTRANT CORNERS (SEE PLAN)

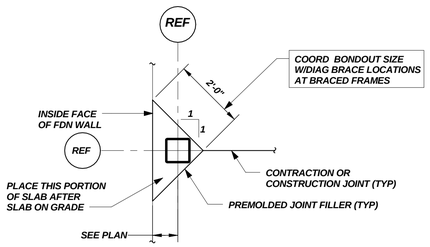
TYP SLAB CORNER DETAIL @ DOOR
N.T.S.



TYP OPENING IN WALL OR SLAB DETAIL
N.T.S.



TYP INT COLUMN ISOLATION JOINT DETAIL
N.T.S.



TYP EXT COLUMN ISOLATION JOINT DETAIL
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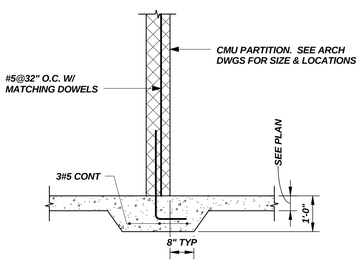
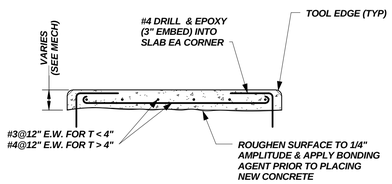
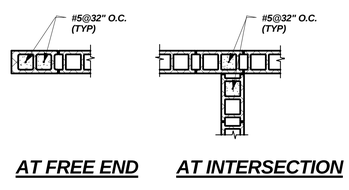


TYP INTERIOR CMU PARTITION DETAIL



NOTE: COORD PAD SIZE WITH MEP CONTRACTOR BASED ON ACTUAL EQUIPMENT SELECTION.

TYP EQUIPMENT HOUSEKEEPING PAD DETAIL
N.T.S.



TYP PLAN DETAILS AT CMU WALLS
N.T.S.

NOTES:

1. PROVIDE LADUR TIE HORIZ REINF @16" O.C. U.N.O.
2. PROVIDE BOND BEAMS W/2#5 CONT AT TOP OF ALL WALL & AT 48" O.C. MAX.
3. PROVIDE MATCHING CORNER & INTERSECTION DOWELS AT ALL BOND BEAMS.
4. ALL REINFORCED CELLS ARE TO BE FULLY GROUTED.
5. LAP BARS AT SPLICES MIN 40 BAR DIAMETERS.
6. PROVIDE 2#5 MIN. ABOVE & BELOW ALL OPENINGS. EXTEND 24" MIN BEYOND EDGE OF OPENING EA SIDE.
7. ALL CMU WALL REINF SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER OR THEIR DESIGNATED REPRESENTATIVE PRIOR TO GROUTING.

CMU LINTEL SCHEDULE

MARK	CLEAR SPAN	WIDTH	DEPTH	REINF
L1	< 6'-0"	8"	8"	2#5 CONT
L2	6'-0" - 8'-0"	8"	16"	2#5 CONT

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REVISIONS

No.	Description	Date

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

CONCRETE DETAILS

Project Number	2750
Date	05/10/12
Drawn by	APP
Checked by	DSB

S2.1

Scale: As indicated

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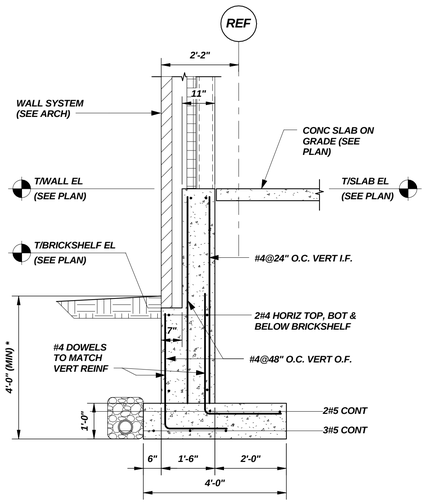
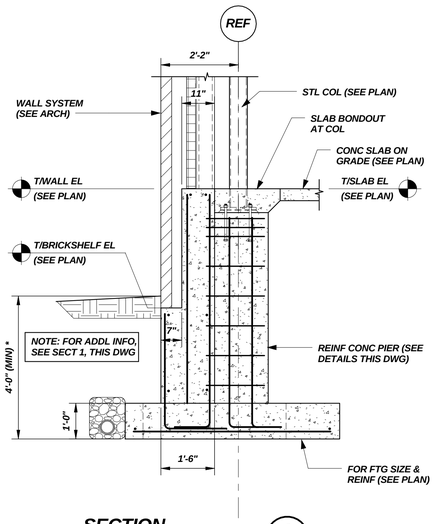


SECTION 1/S1.2
1/2"=1'-0"



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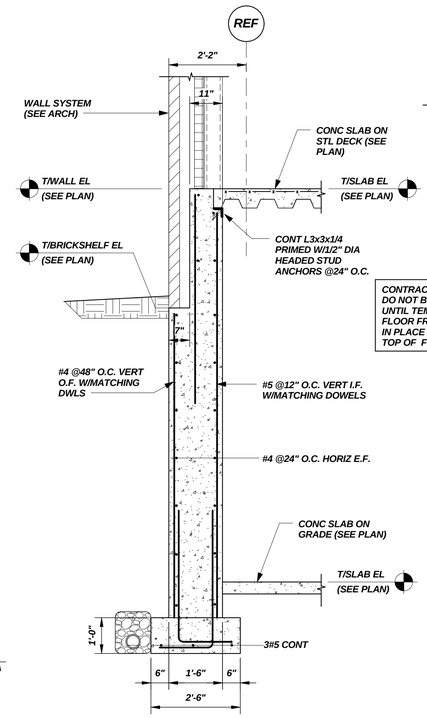
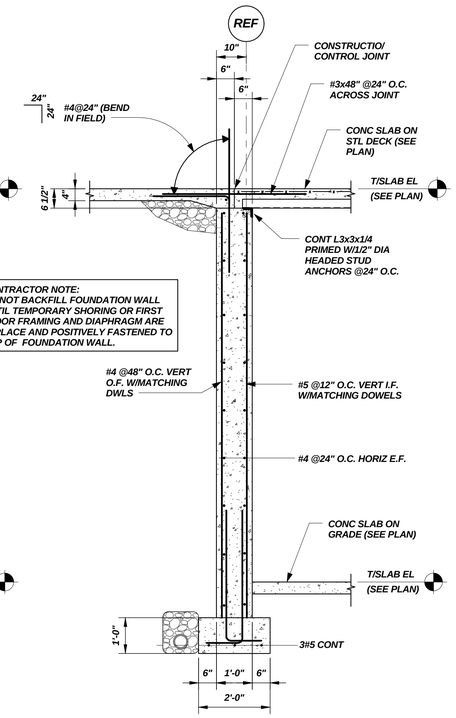


SECTION 3/S1.1, S1.2
1/2"=1'-0"

CONTRACTOR NOTE:
DO NOT BACKFILL FOUNDATION WALL UNTIL TEMPORARY SHORING OR FIRST FLOOR FRAMING AND DIAPHRAGM ARE IN PLACE AND POSITIVELY FASTENED TO TOP OF FOUNDATION WALL.



SECTION 4/S1.1, S1.2
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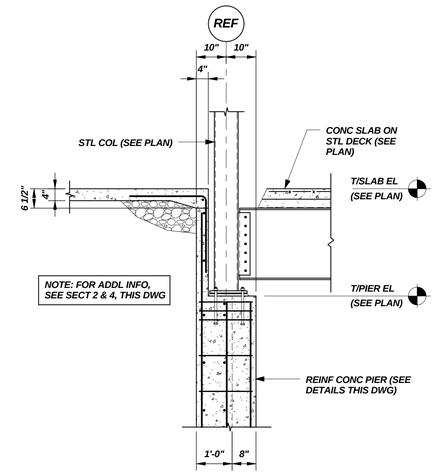
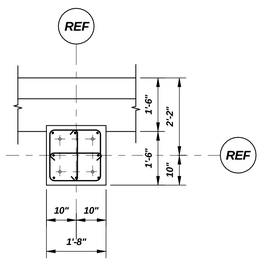


SECTION 5/S1.1, S1.2
1/2"=1'-0"



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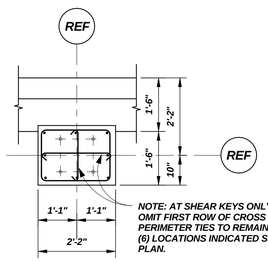
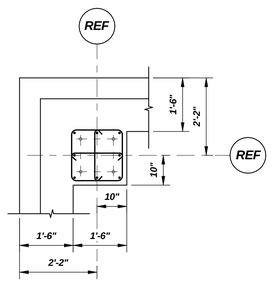


NOTE: AT SHEAR KEYS ONLY. OMIT FIRST ROW OF CROSS TIES. PERIMETER TIES TO REMAIN. TYP (6) LOCATIONS INDICATED S.K. ON PLAN.

P1A



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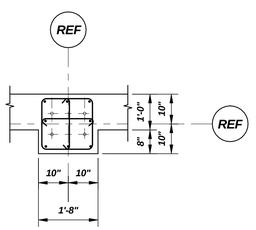

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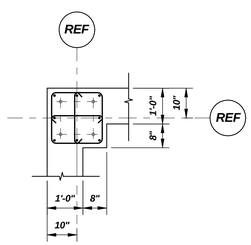
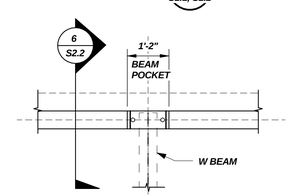


P4

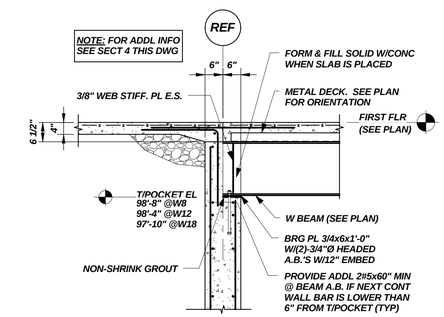
PIER DETAILS
1/2"=1'-0"

NOTES:

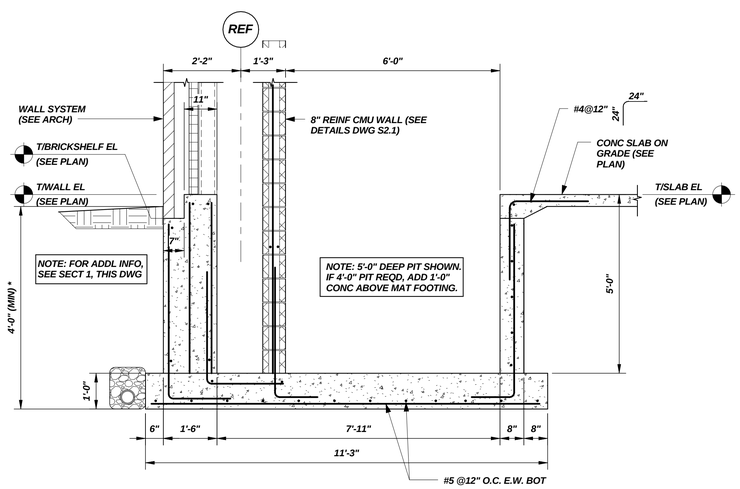
1. TYP PIER REINF SHALL BE 8#6 VERT W/MATCHING DOWELS INTO FTG, W/#3 TIES (3@3" AT TOP, BAL @12" O.C.)
2. AT SHEAR KEY LOCATIONS, OMIT TOP CROSS TIES. PERIMETER TIES TO REMAIN.



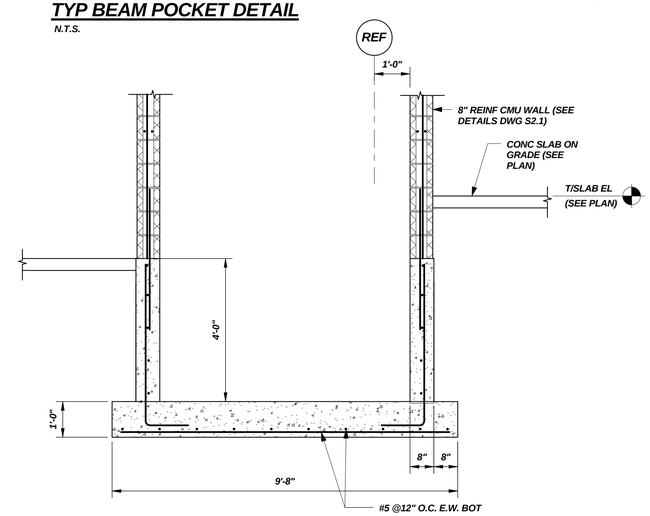
TYP BEAM POCKET DETAIL
N.T.S.



SECTION 6/S1.1, S1.2
1/2"=1'-0"



SECTION 7/S1.2
1/2"=1'-0"



SECTION 8/S1.1
1/2"=1'-0"

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207-449-4275

REVISIONS

No.	Description	Date

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

CONCRETE SECTIONS

Project Number	2750
Date	05/10/12
Drawn by	APP
Checked by	DSB

S2.2

Scale	As indicated

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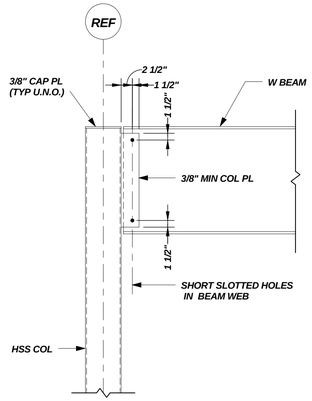
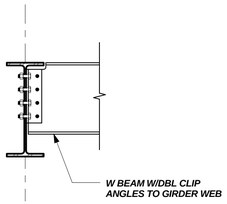


TYP BEAM TO HSS COL CONN U.N.O.

N.T.S.



TYP BEAM TO BEAM CONN DETAIL

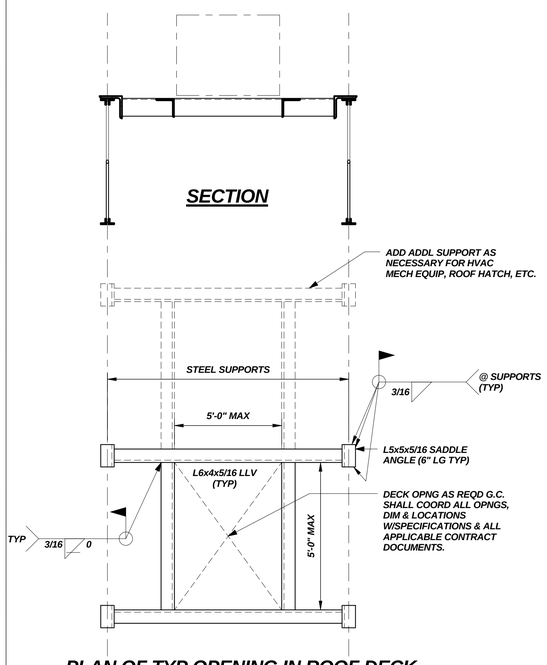
N.T.S.

SIMPLE SHEAR BEAM CONNECTION SCHEDULE

BEAM SIZE	DESIGN REACTION	MINIMUM NO BOLTS 1 SIDED CONNECTION	MINIMUM NO BOLTS 2 SIDED CONNECTION
W8/W10	12K	2	2
W12/W14	18 K	2	2
W16/W18	30K	3	3
W21	30K	4	3
W24	60K	5	4
W27	70K	6	5

SIMPLE SHEAR CONNECTIONS NOTES:

1. SIMPLE SHEAR CONNECTIONS SHALL BE SELECTED FROM THE AISC "MANUAL OF STEEL CONSTRUCTION-ALLOWABLE STRESS DESIGN, LATEST EDITION" USING THE ABOVE REFERENCED REACTIONS AND CRITERIA. REACTIONS INDICATED ARE UNFACTORED (SERVICE LEVEL LOADS). MORE BOLTS THAN REFERENCED IN THE "MINIMUM" SECTIONS ABOVE MAY BE REQUIRED FOR LOAD REQUIREMENTS.
2. CONNECTIONS ARE SUBJECT TO REVIEW ON THE STEEL SHOP DRAWINGS.
3. ALL BOLTS SHALL BE A325 OR A490 FOR SIMPLE SHEAR CONNECTIONS, MIN 3/4"Ø. MINIMUM WELD SIZE SHALL BE 5/16". MINIMUM MATERIAL SIZE FOR PLATES OR ANGLES SHALL BE 3/8".
4. ONE SIDED CONNECTIONS INCLUDE SINGLE PLATES AND SINGLE ANGLE CONNECTIONS.
5. TWO SIDED CONNECTIONS INCLUDE DOUBLE ANGLE AND END PLATE CONNECTIONS.
6. SEE BRACED FRAME DETAILS, THIS DWG FOR BEAM CONNECTIONS AT BRACED FRAMES.

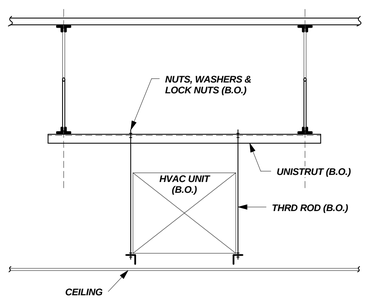


PLAN OF TYP OPENING IN ROOF DECK

N.T.S.

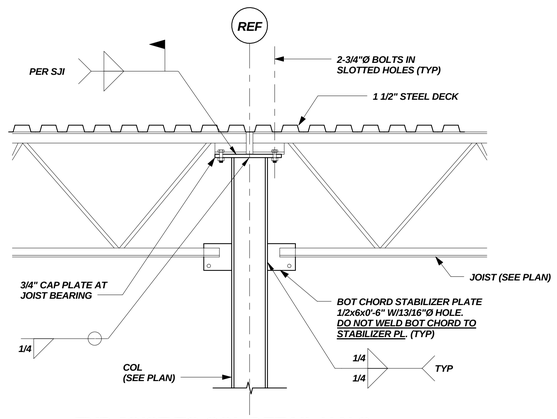
NOTE:

DETAIL TYPICAL AT ROOF DRAINS, EXHAUST FANS AND OTHER MECH AND HVAC EQIP IF OPENING IS LARGER THAN 12"Ø OR CUTS MORE THAN (1)DECK RIB. FOR OPENINGS LESS THAT 12"Ø, REINF OPNG W/16GA MIN PL. MIN PL LENGTH SHALL BE "D"+4". EXTEND AS REQD FOR 2" MIN BRG ON DECK RIB.



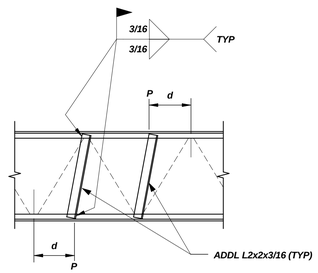
TYP SUPPORT DETAIL @ HANGING EQUIP

N.T.S.



TYP JOIST TO COL DETAIL U.N.O.

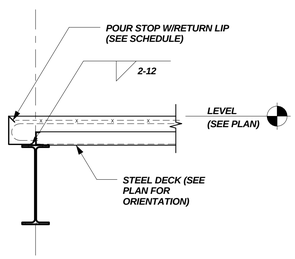
N.T.S.



TYP JOIST REINF DETAIL

N.T.S.

1. FOR CONCENTRATED LOADS LOCATED A DISTANCE "d", 4" OR MORE FROM PANEL POINT, PROVIDE ADDITIONAL WEB MEMBERS AS SHOWN.
2. P = 300# MAX LOAD.

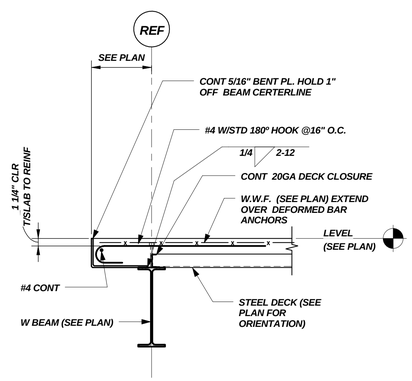


POUR STOP SCHEDULE

SLAB OVERHANG BEYOND EDGE OF BEAM FLANGE	POUR STOP GAGE
<3"	14 GA
3"-6"	12 GA
7"-9"	10 GA
>9"	SEE SECTIONS & DETAILS

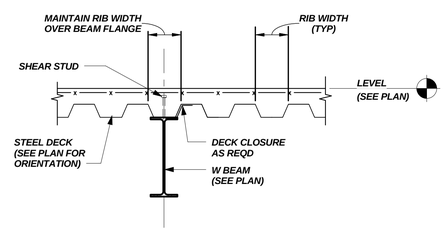
TYP POUR STOP SCHEDULE & DETAIL U.N.O.

N.T.S.



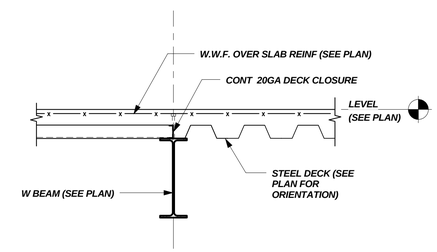
TYP EDGE OF SLAB DETAIL

N.T.S.



TYP COMPOSITE DECK DETAIL

N.T.S.



TYP CHANGE IN DECK DIRECTION U.N.O.

N.T.S.

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207-449-4275

REVISIONS

No.	Description	Date

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

STEEL DETAILS

Project Number	2750
Date	05/10/12
Drawn by	APP
Checked by	DSB

S3.1

Scale: As indicated

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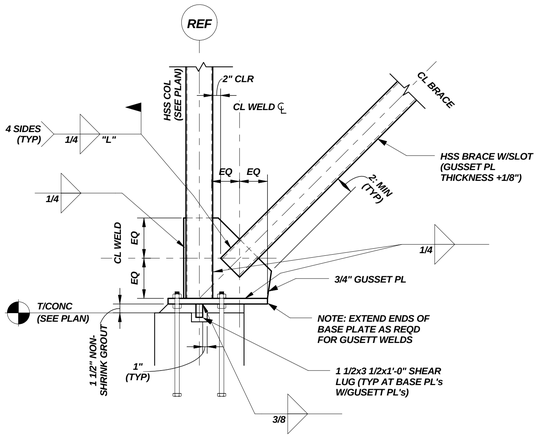
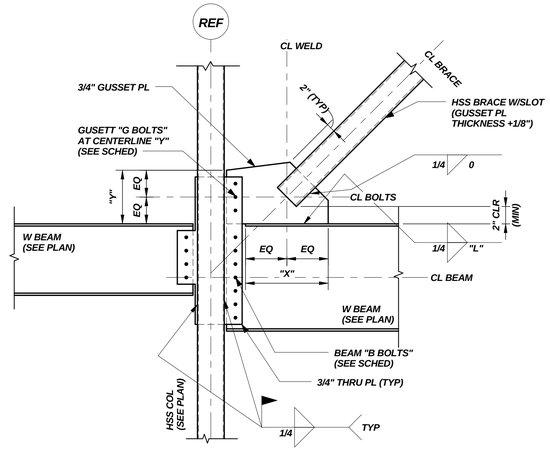
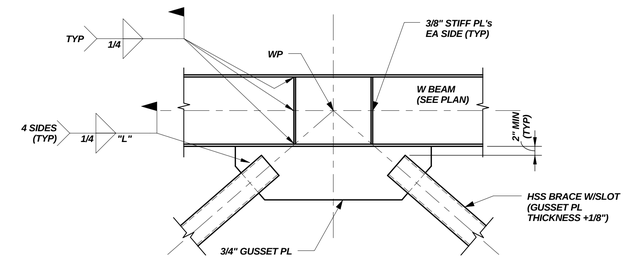


DETAIL A / S1.5
3/4"=1'-0"



DETAIL B / S1.5
3/4"=1'-0"



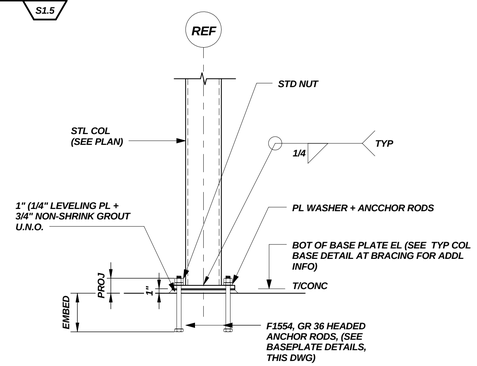
DETAIL C / S1.5
3/4"=1'-0"

BRACED FRAME CONNECTION SCHEDULE

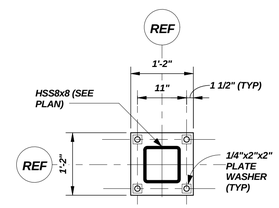
FRAME	BRACE SIZE	GUSSET		BRACE	G-BOLTS		B-BOLTS	
		X(in)	Y(in)		#	S(in)	#	S(in)
BF-1	HSS5x5x1/4	20	9	5	2	3	7	3
	HSS6x6x3/8			6				
BF-2	HSS5x5x1/4	11	11	5	2	3	4	3
	HSS6x6x1/4			6				
BF-3	HSS5x5x1/4	11	11	5	2	3	4	3
	HSS6x6x1/4			6				
BF-4	HSS6x6x3/8	32	9	6	2	3	5	3
	HSS8x8x1/4	33	15	8	4	3	7-(1)	3

NOTES:

1. ALL BOLTS AT GUSSET AND BEAMS ARE 7/8"Ø A325 CLASS A S.C. BOLTS.
2. (1) INDICATES USE (6) BOLTS AT W21 BEAM.

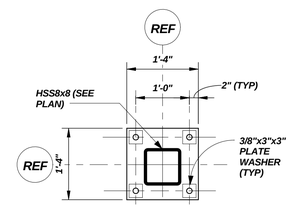


TYP COL BASE DETAIL U.N.O.
N.T.S.



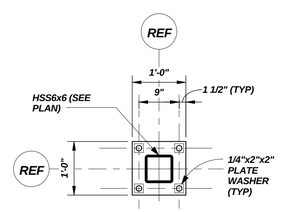
PL 1x14x1'-2" W/(4)-1 5/16"DIA HOLES FOR (4)-3/4" DIA ANCHOR RODS W/9" EMBED & 6" PROJ.

BP-A



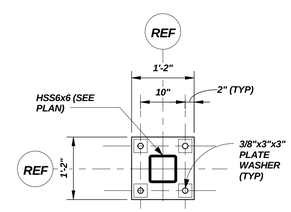
PL 1 1/4x16x1'-4" W/(4)-1 13/16"DIA HOLES FOR (4)-1" DIA ANCHOR RODS W/1'-8" EMBED & 6" PROJ.

BP-B*



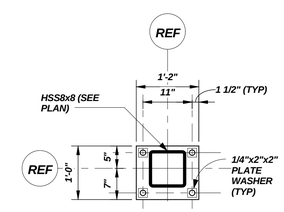
PL 1x12x1'-0" W/(4)-1 5/16"DIA HOLES FOR (4)-3/4" DIA ANCHOR RODS W/9" EMBED (U.N.O.) & 6" PROJ.

BP-C



PL 1x14x1'-2" W/(4)-1 13/16"DIA HOLES FOR (4)-1" DIA ANCHOR RODS W/1'-8" EMBED & 6" PROJ.

BP-D*



PL 1 1/4x12x1'-2" W/(4)-1 5/16"DIA HOLES FOR (4)-3/4" DIA ANCHOR RODS W/9" EMBED & 6" PROJ.

BP-E

TYP BASE PLATE DETAILS U.N.O.
N.T.S.

NOTES:

1. *SEE BRACE FRAME DETAILS FOR ELONGATED BASE PLATES AT S.K. LOCATIONS. ANCHOR ROD LAYOUTS AS IDENTIFIED ABOVE.

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REVISIONS

No.	Description	Date

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

STEEL SECTIONS

Project Number	2750
Date	05/10/12
Drawn by	APP
Checked by	DSB

S3.2

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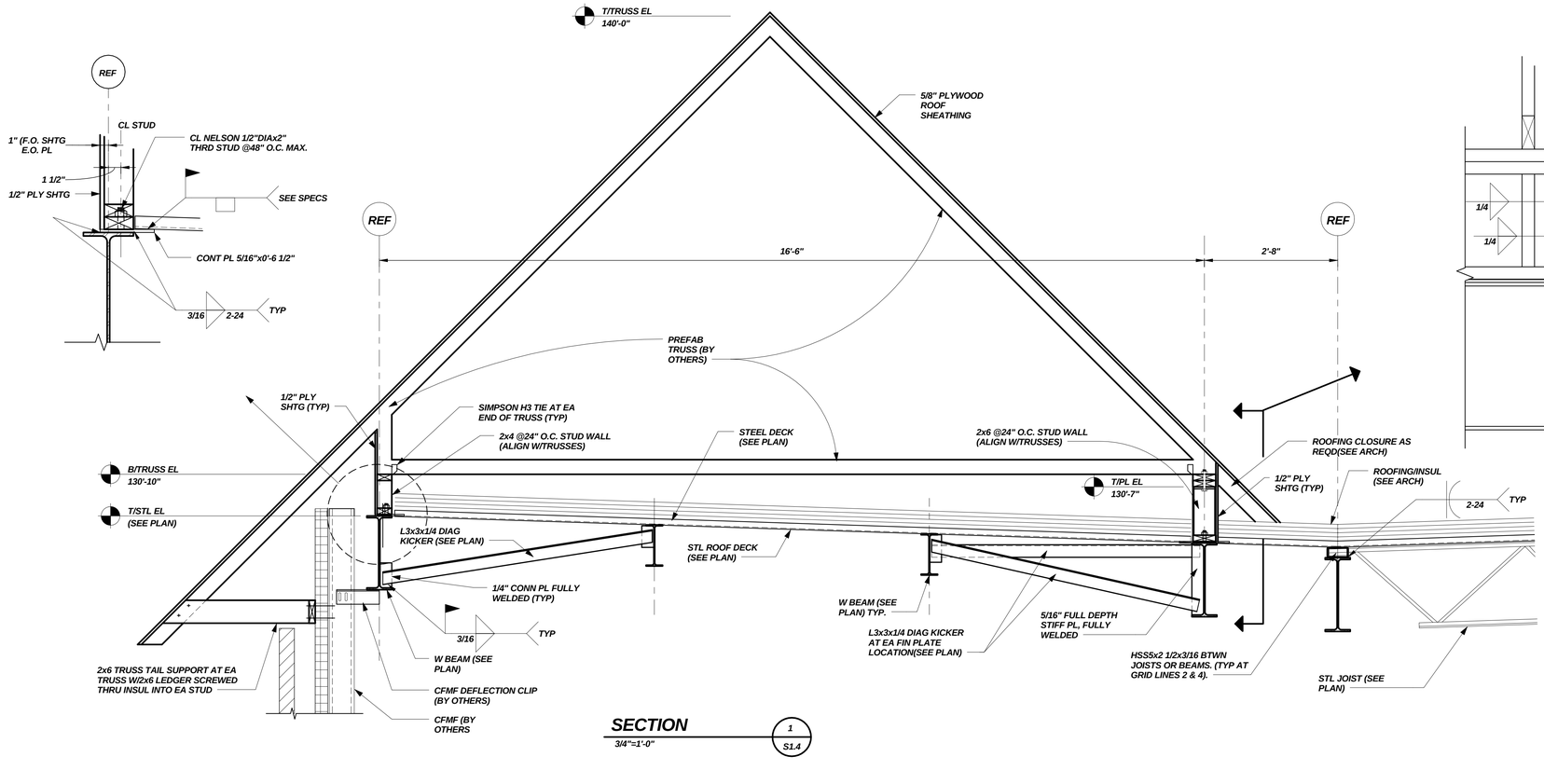

SECTION 1 / S1.4
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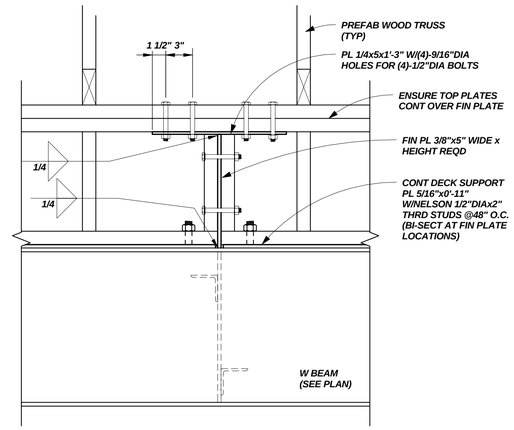

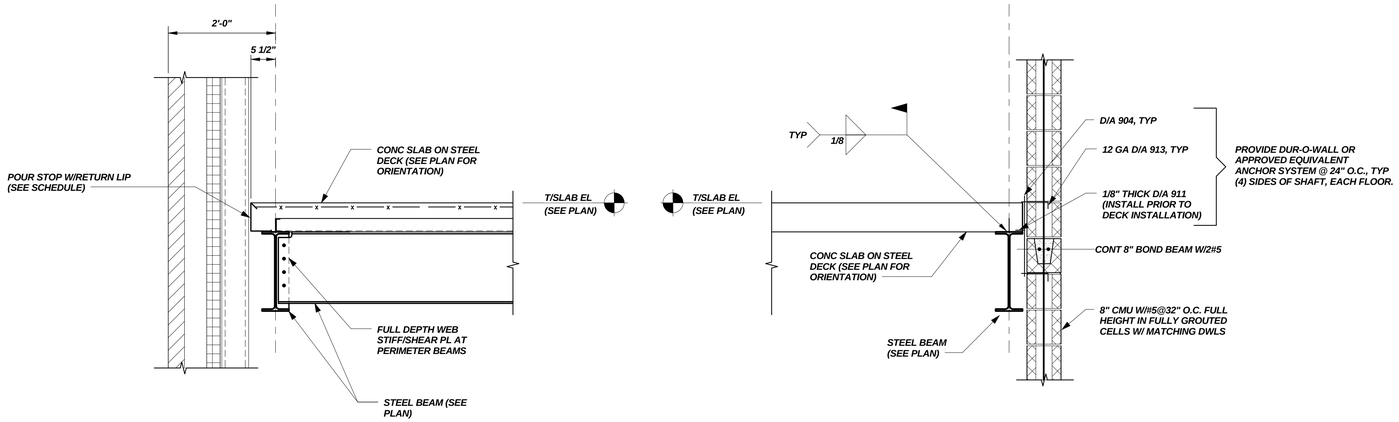

SECTION 2 / S1.3
3/4"=1'-0"

TYP CMU SHAFT WALL ANCHORAGE
N.T.S.

SECTION 3 / S1.2, S1.3
3/4"=1'-0"

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REVISIONS

No.	Description	Date

UNIVERSITY OF
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PATIENT CARE
CENTER
EXTERIOR SHELL

STEEL SECTIONS

Project Number	2750
Date	05/10/12
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S3.3

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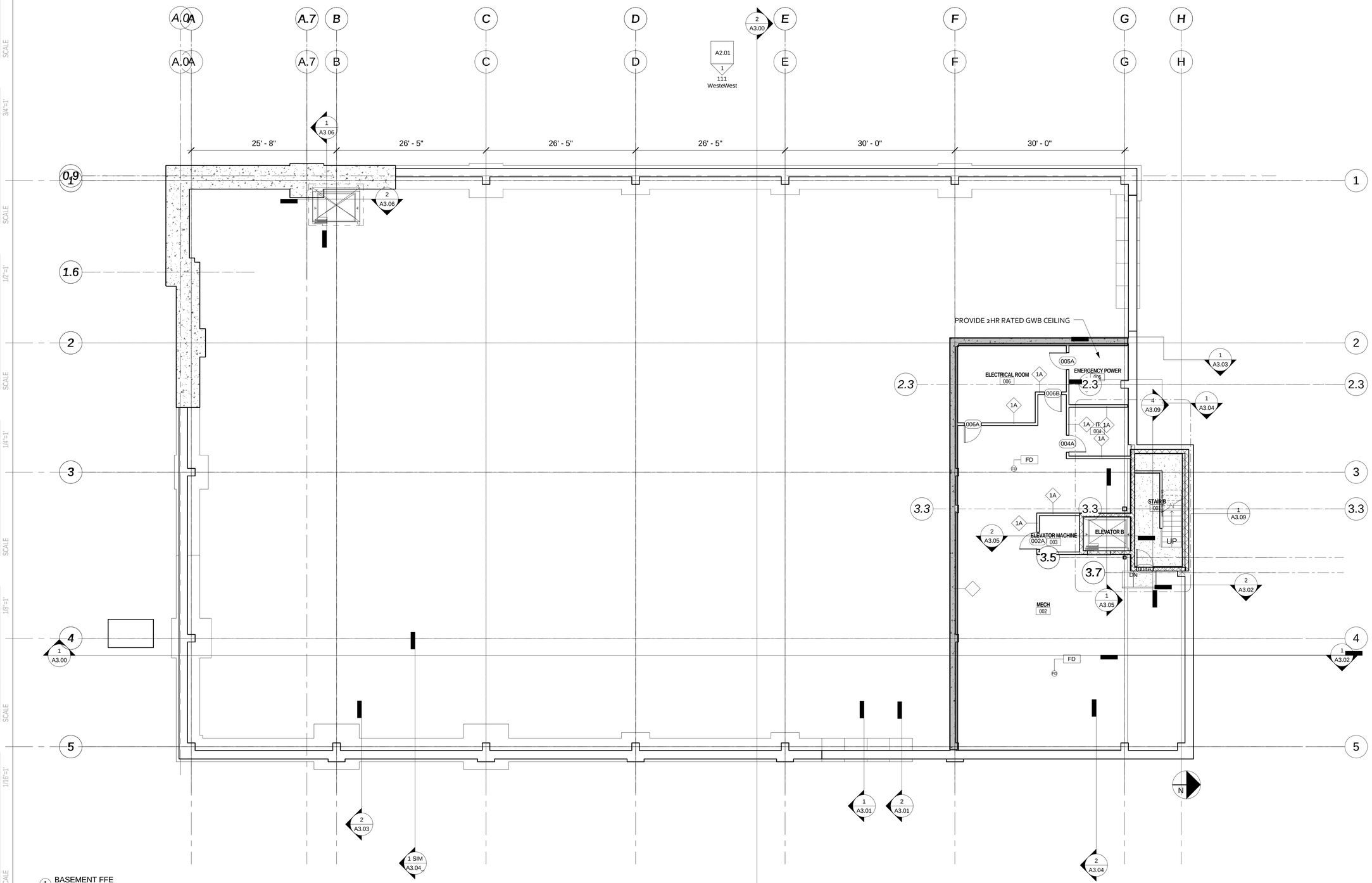

1 BASEMENT FFE
1/8" = 1'-0"

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No.	Description	Date

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UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

BASEMENT PLANS

Project Number	12502
Date	05.10.12
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Checked by	LAS

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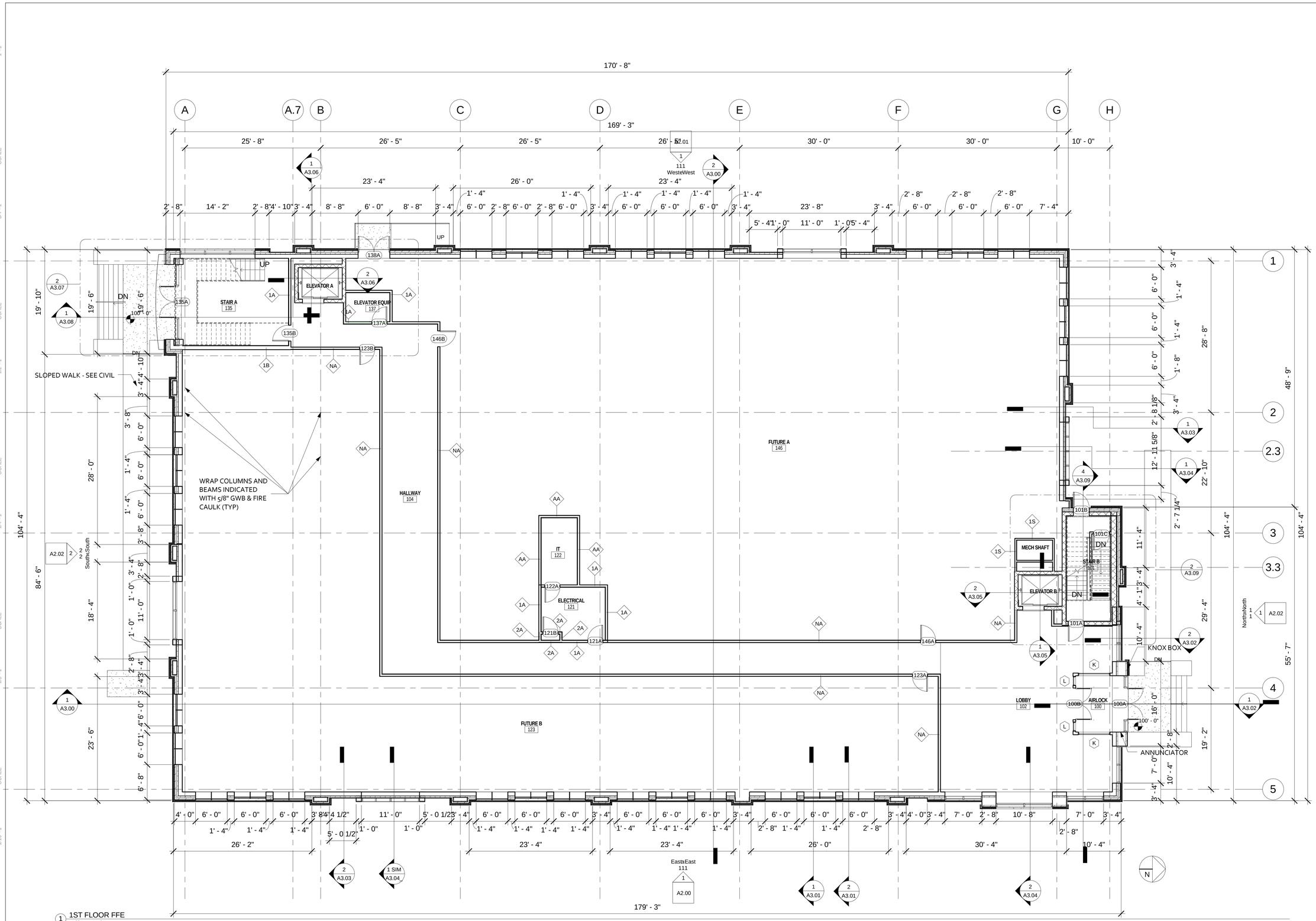

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REVISIONS

No.	Description	Date

PERMIT SET

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

1ST FLOOR PLANS

Project Number	12502
Date	05.10.12
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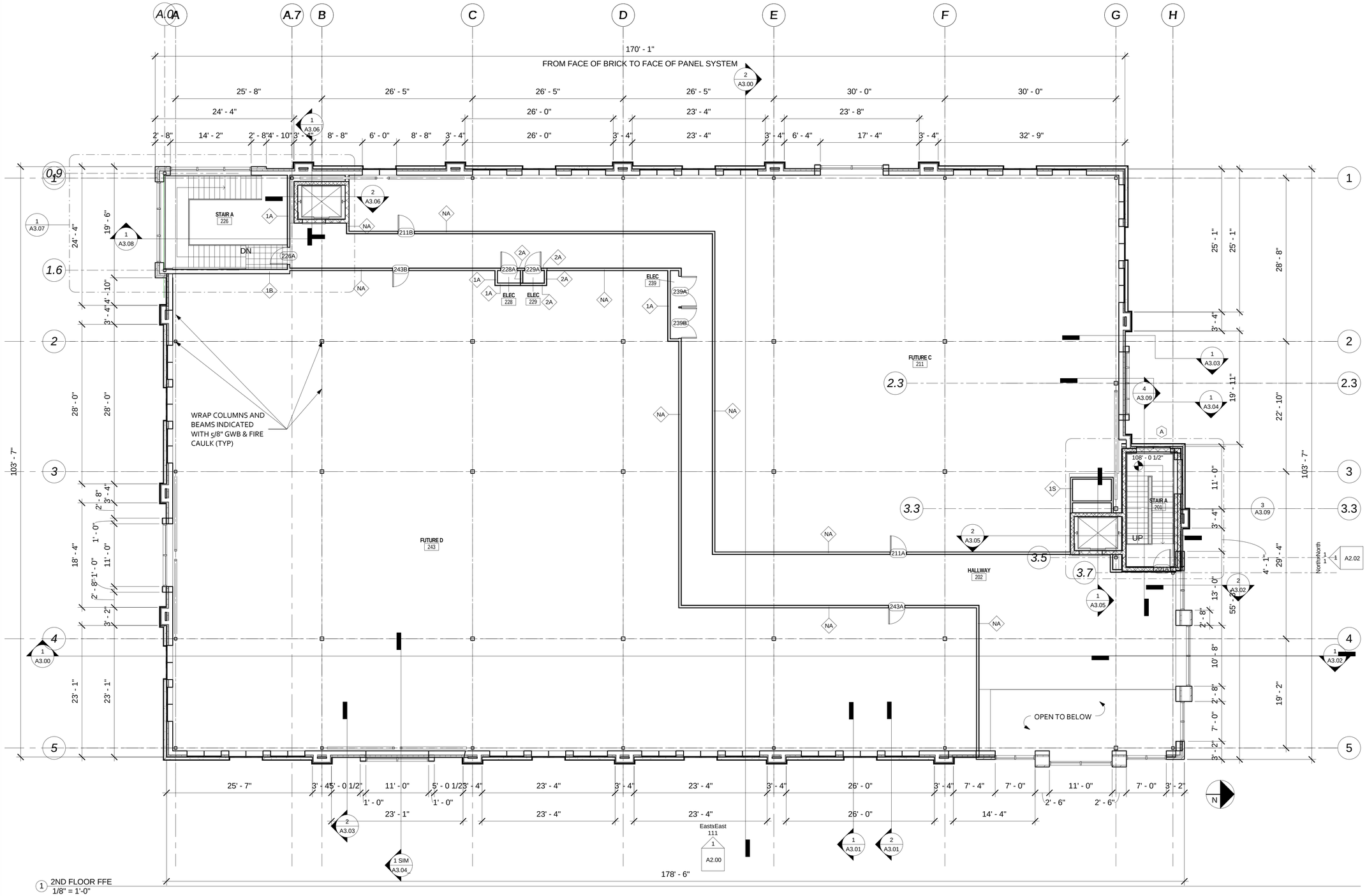

1 2ND FLOOR FFE
1/8" = 1'-0"

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2ND FLOOR PLANS

Project Number	12502
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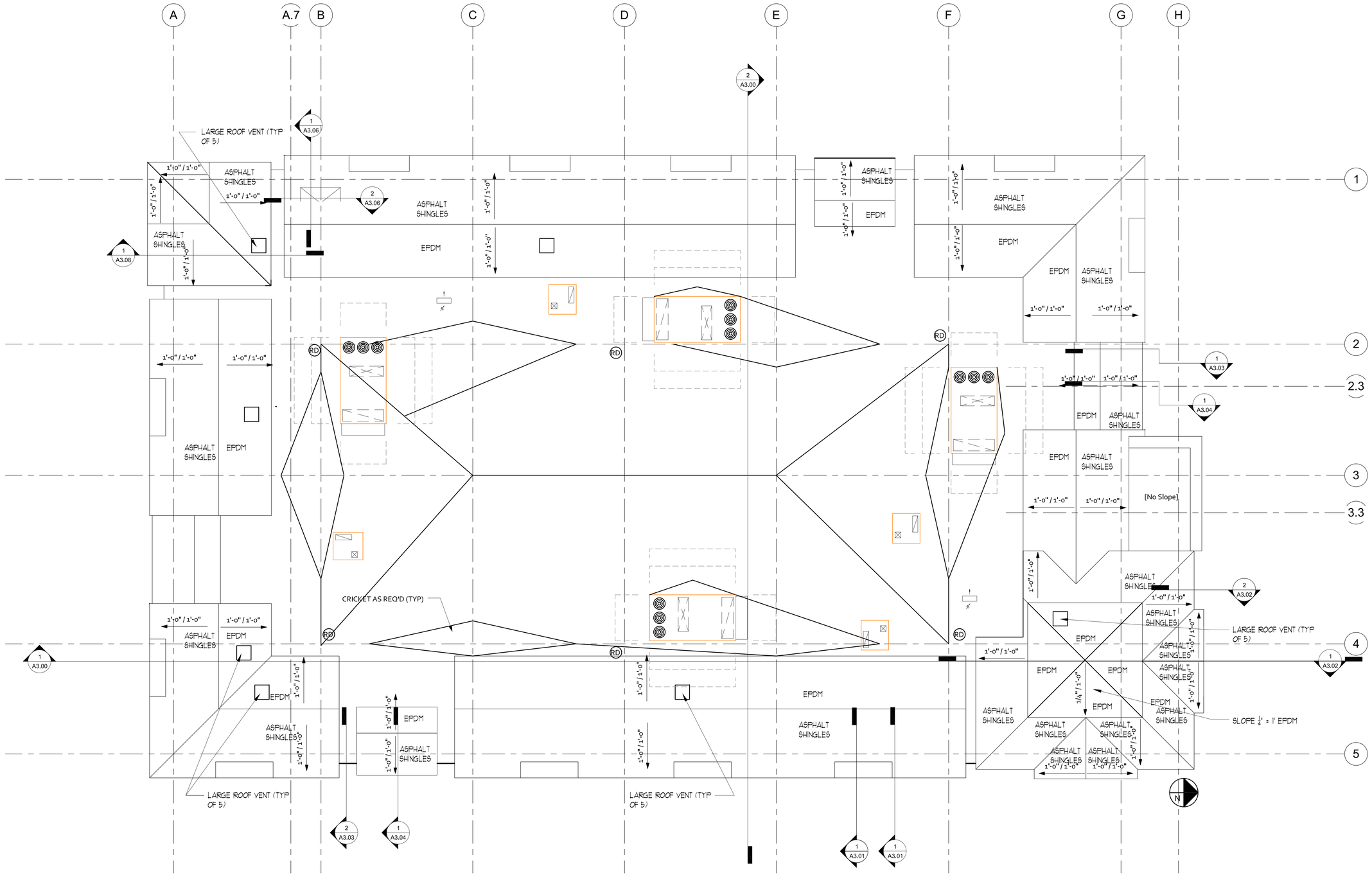

1 THIRD LEVEL FLOOR PLAN

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

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REVISIONS

No.	Description	Date

PERMIT SET

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

ROOF PLAN

Project Number	12502
Date	May 11, 2012
Drawn by	JAP/MAC/JTC
Checked by	LAS

A 1.03

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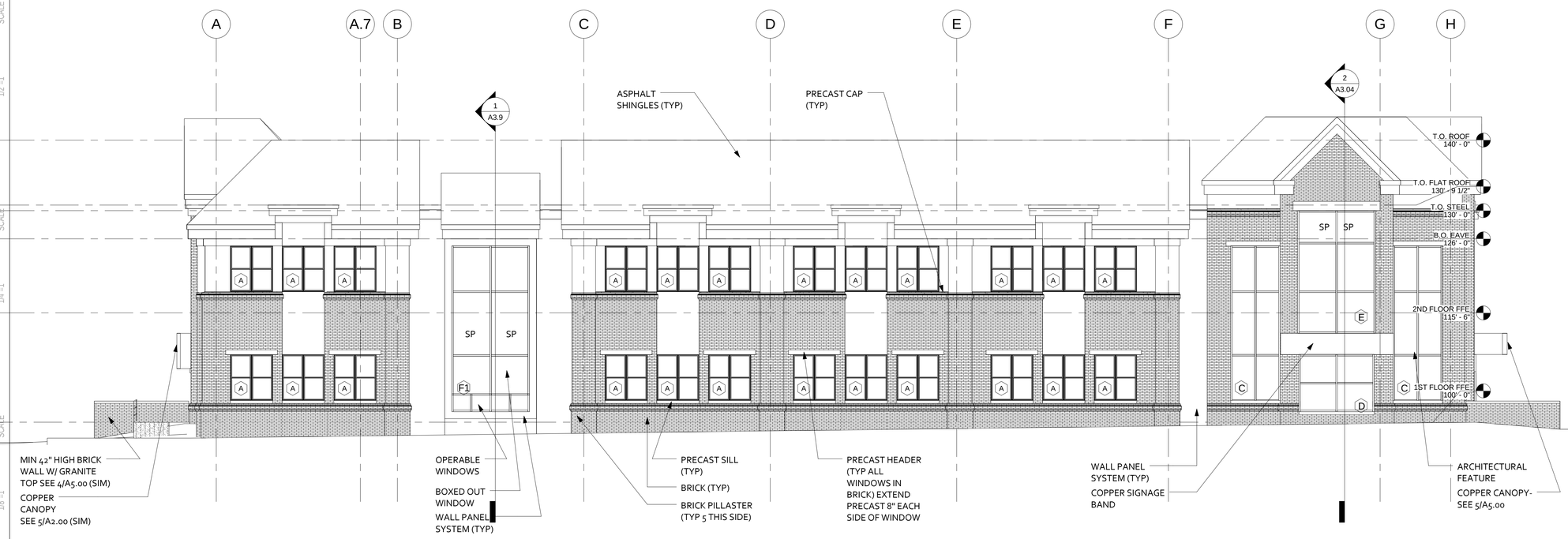

1 East
1/8" = 1'-0"

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23 Whitney Way
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207-449-4275

REVISIONS

No.	Description	Date

PERMIT SET

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

EAST ELEVATION

Project Number	12502
Date	05.10.12
Drawn by	JAP/MAC/JTC
Checked by	JAP

A2.00

Scale 1/8" = 1'-0"

5/11/2012 1:08:08 PM

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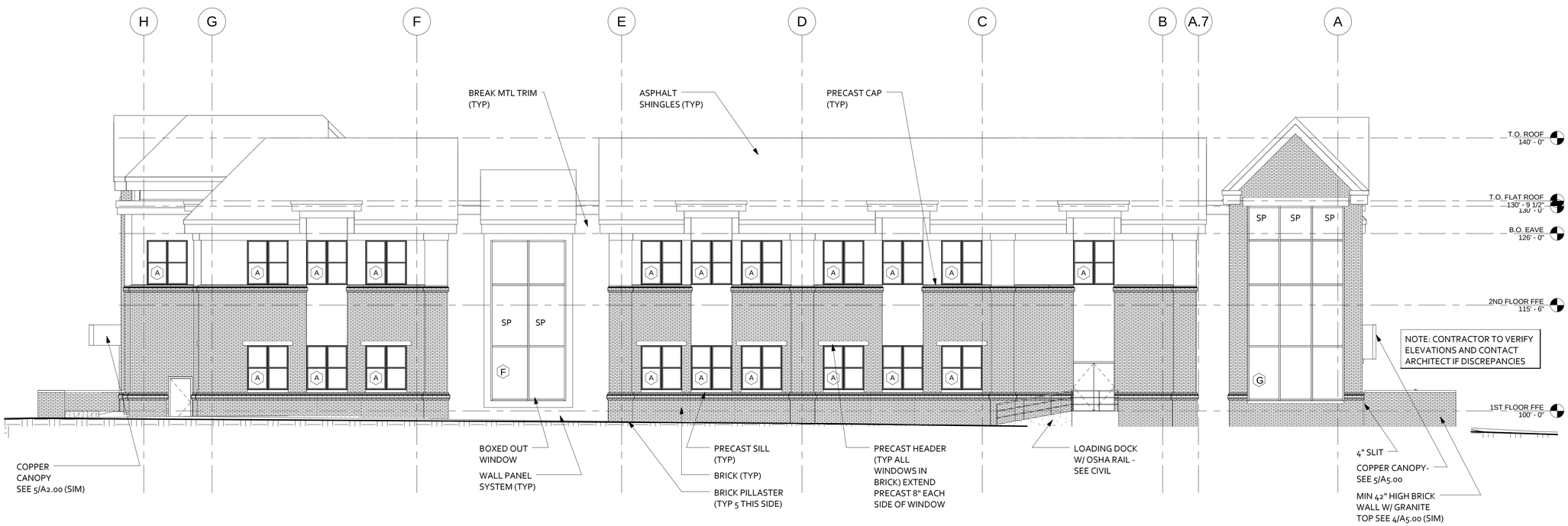

1 West
1/8" = 1'-0"

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LITA SEMRAU
NO. 2687
STATE OF MAINE

CONSULTANTS

Kahler Slater experience design

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No.	Description	Date

PERMIT SET

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

WEST ELEVATIONS

Project Number	12502
Date	05.10.12
Drawn by	JAP/MAC/JTC
Checked by	LAS

A2.01

Scale 1/8" = 1'-0"

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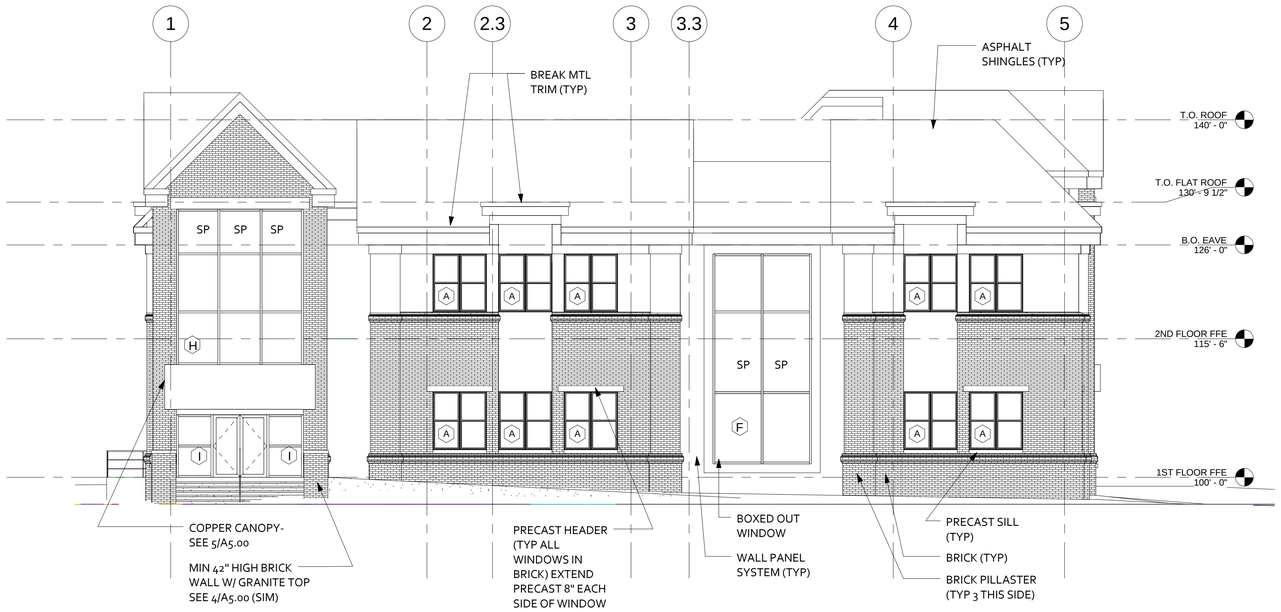

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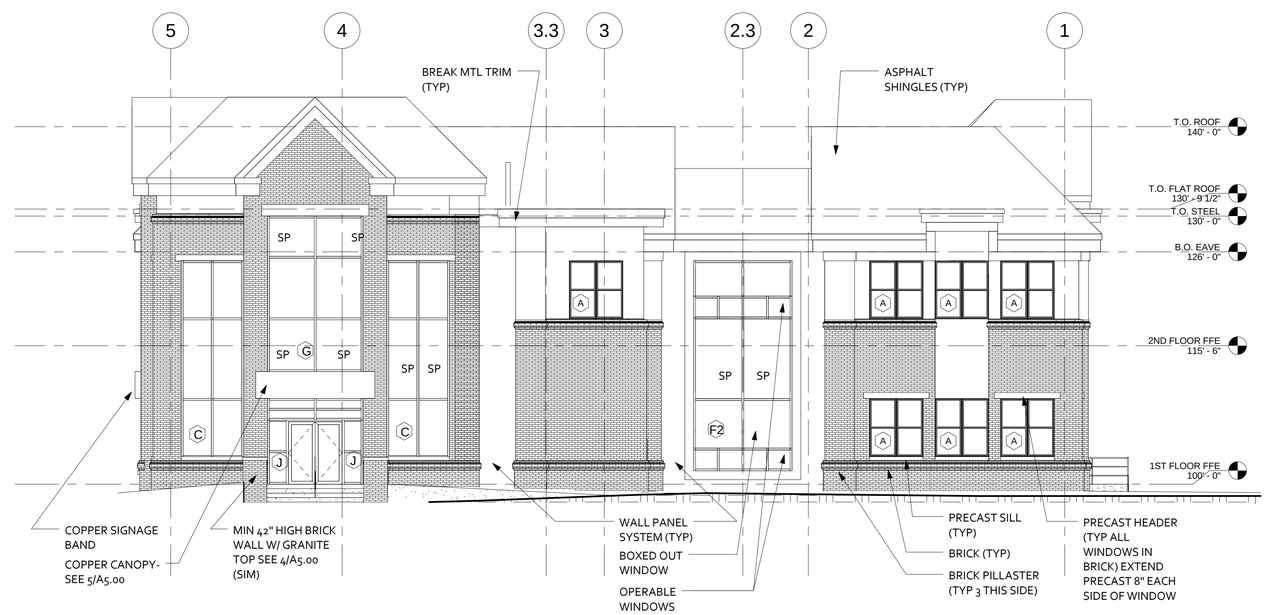
1/8" = 1'-0"



1 North
1/8" = 1'-0"

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No.	Description	Date

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UNIVERSITY OF NEW ENGLAND
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PATIENT CARE CENTER
EXTERIOR SHELL

N & S ELEVATIONS

Project Number	12502
Date	05.10.12
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Checked by	LAS

A2.02

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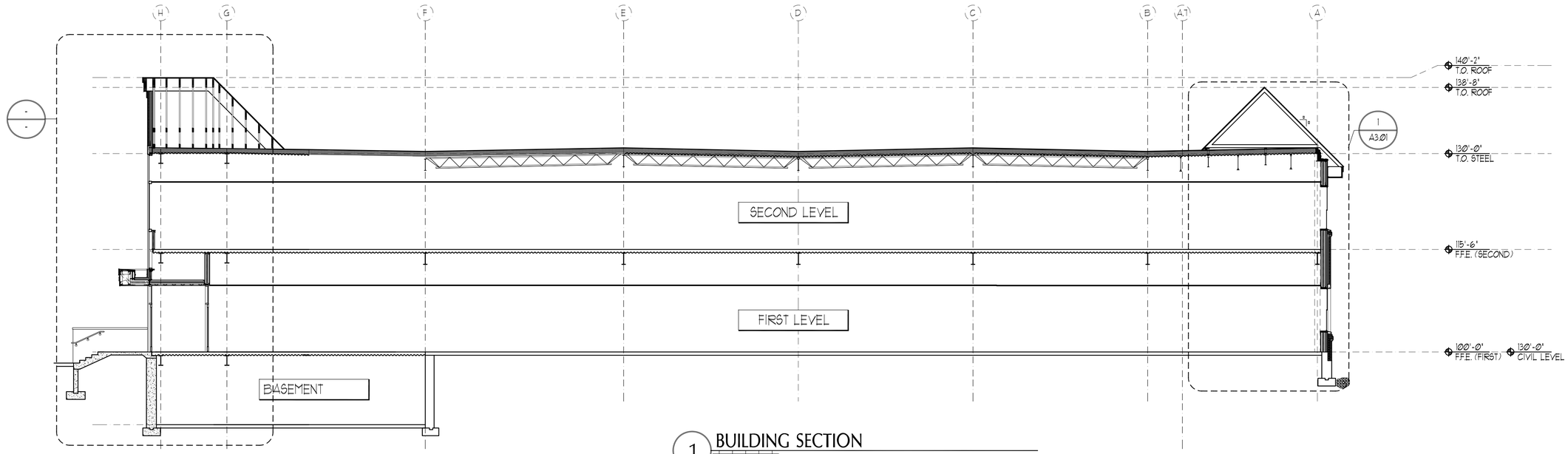

1 BUILDING SECTION

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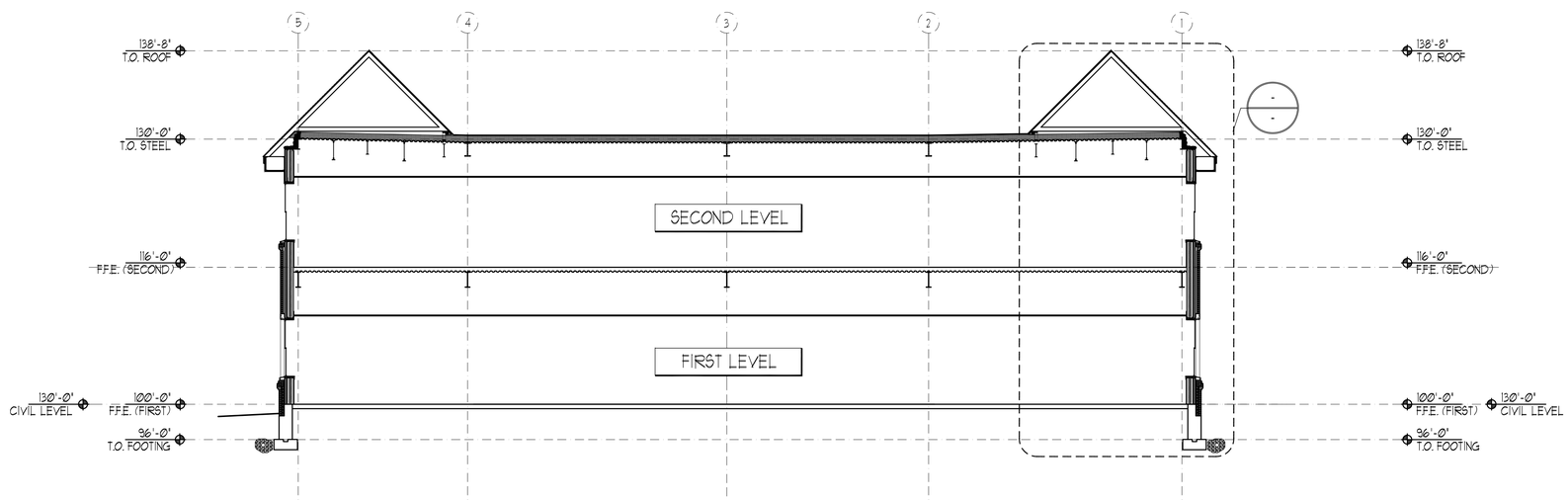

2 BUILDING SECTION

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

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Mechanical Engineers

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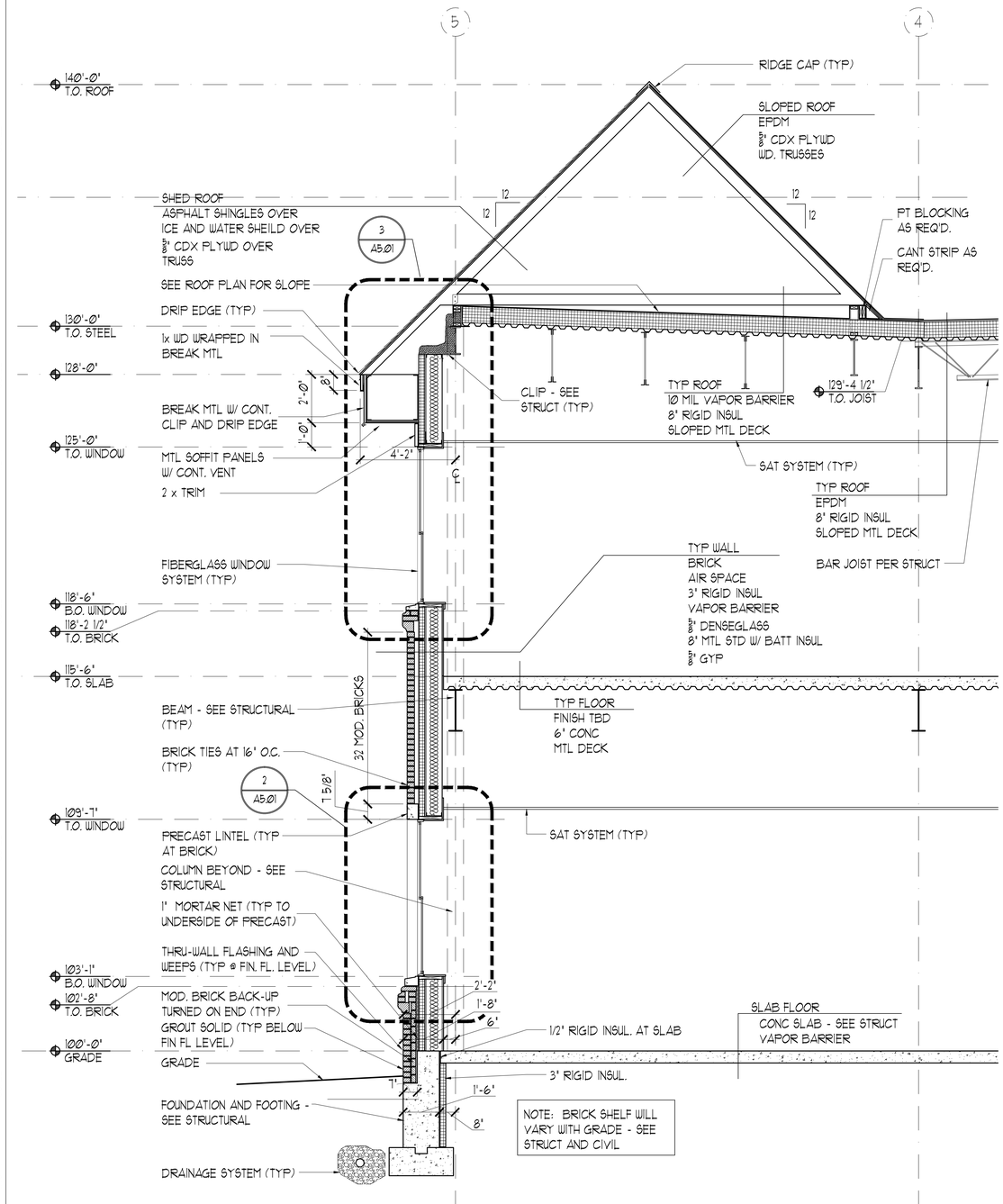
PATIENT CARE CENTER
EXTERIOR SHELL

BUILDING SECTION

Project Number	12502
Date	May 11, 2012
Drawn by	JAP/MAC/JTC
Checked by	LAS

A3.00

Scale



2 WALL SECTION

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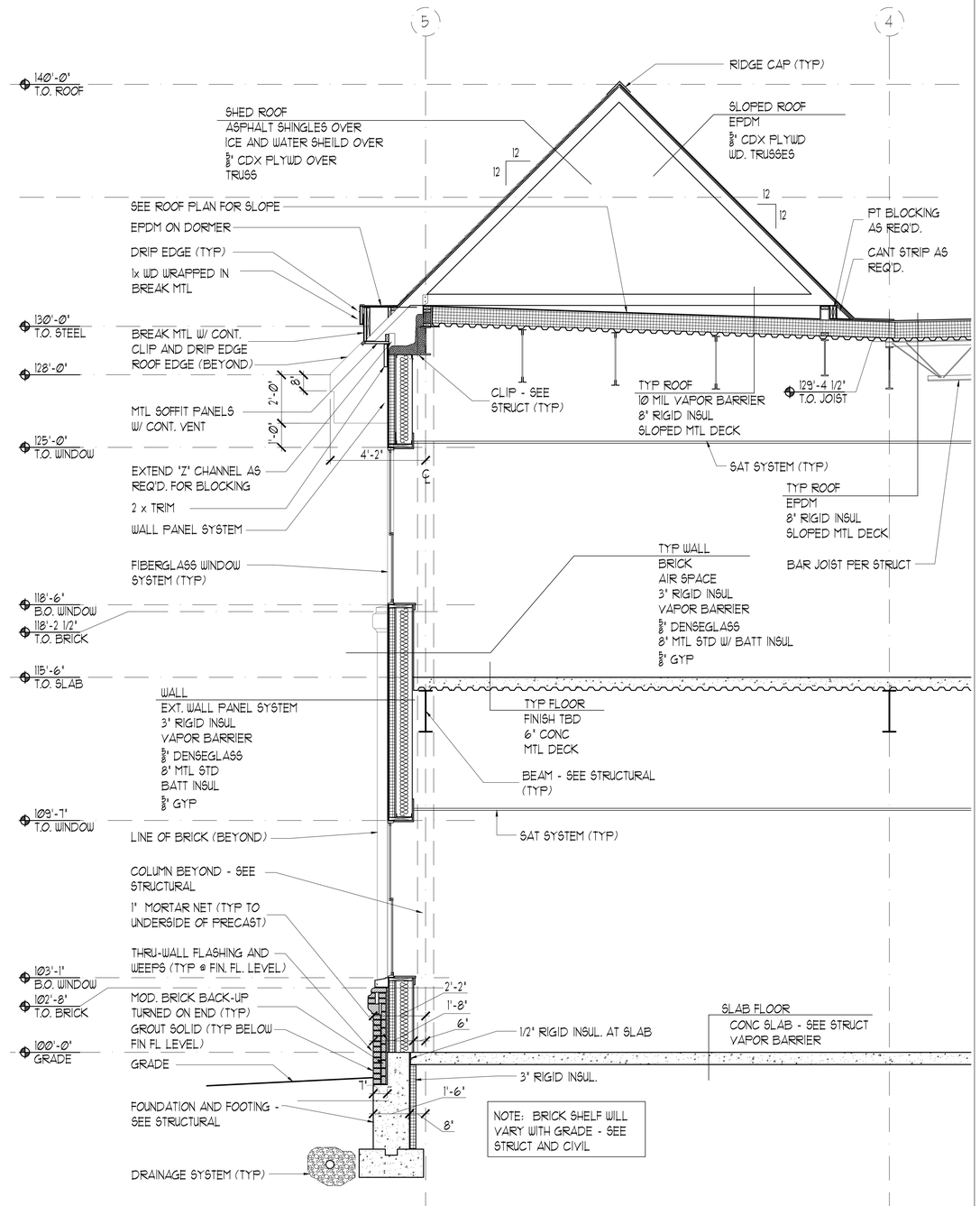

1 WALL SECTION

0 2' - 8' SCALE: 3/8" = 1'-0"

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PATIENT CARE CENTER

EXTERIOR SHELL

BUILDING SECTIONS

Project Number	12502
Date	May 11, 2012
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Checked by	LAS

A3.01

Scale

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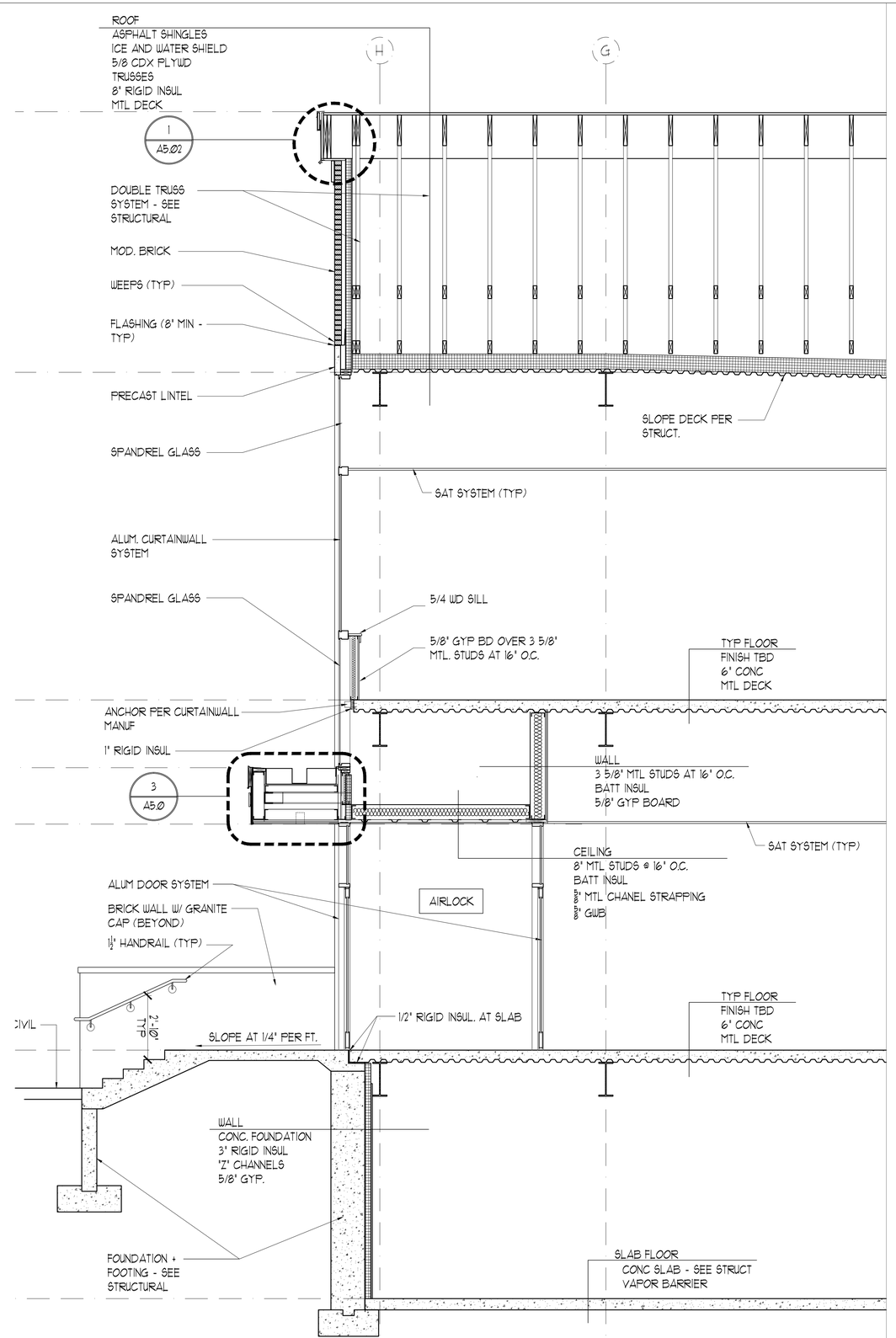

1 WALL SECTION

0 2' - 8' SCALE: 3/8" = 1'-0"

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PATIENT CARE CENTER
EXTERIOR SHELL

BUILDING SECTIONS

Project Number	12502
Date	May 11, 2012
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Checked by	LAS

A3.02

Scale

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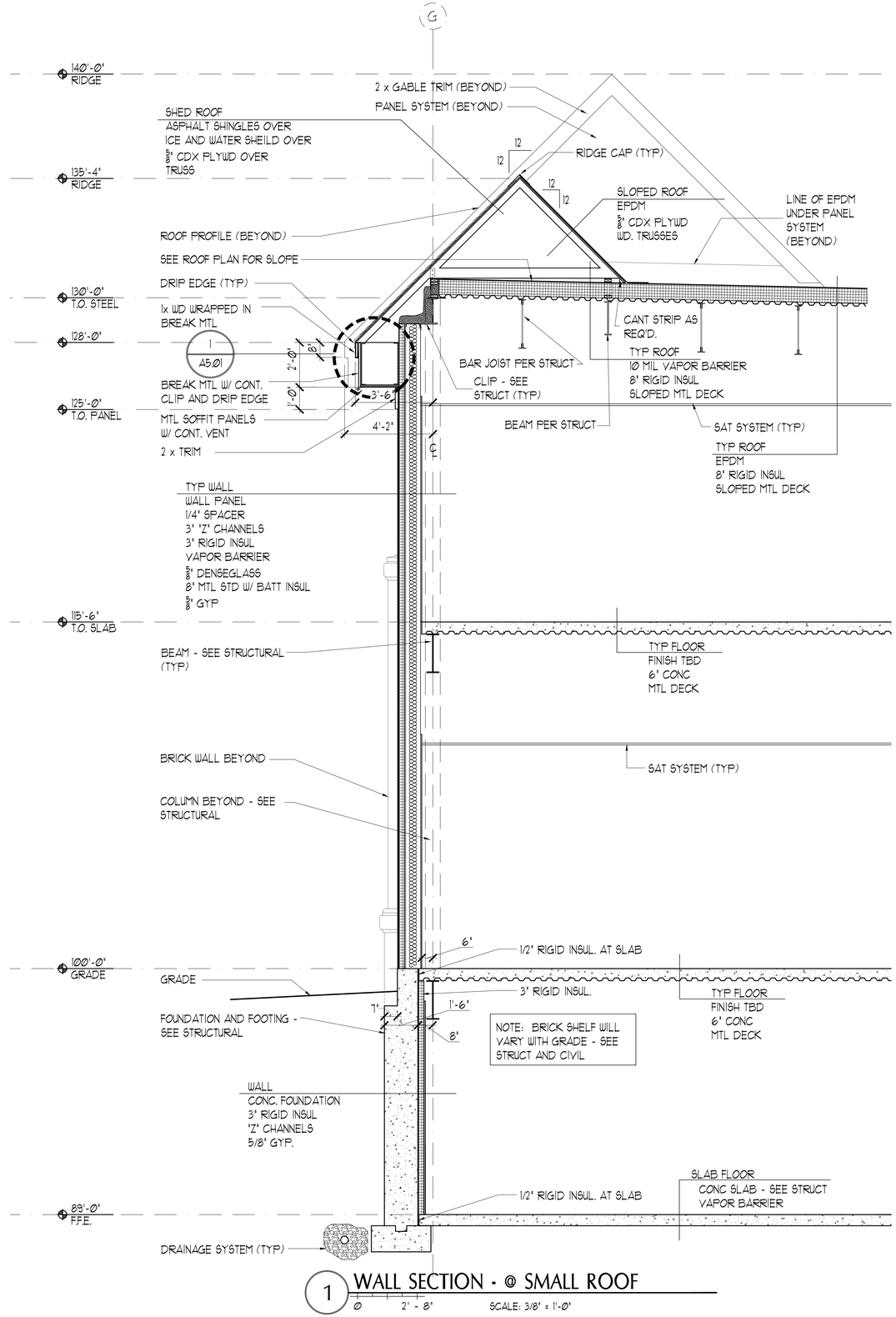

1 WALL SECTION - @ SMALL ROOF

0 2' - 8' SCALE: 3/8" = 1'-0"

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NO. 7107 PROFESSIONAL ENGINEERS

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BUILDING SECTIONS

Project Number	12502
Date	May 11, 2012
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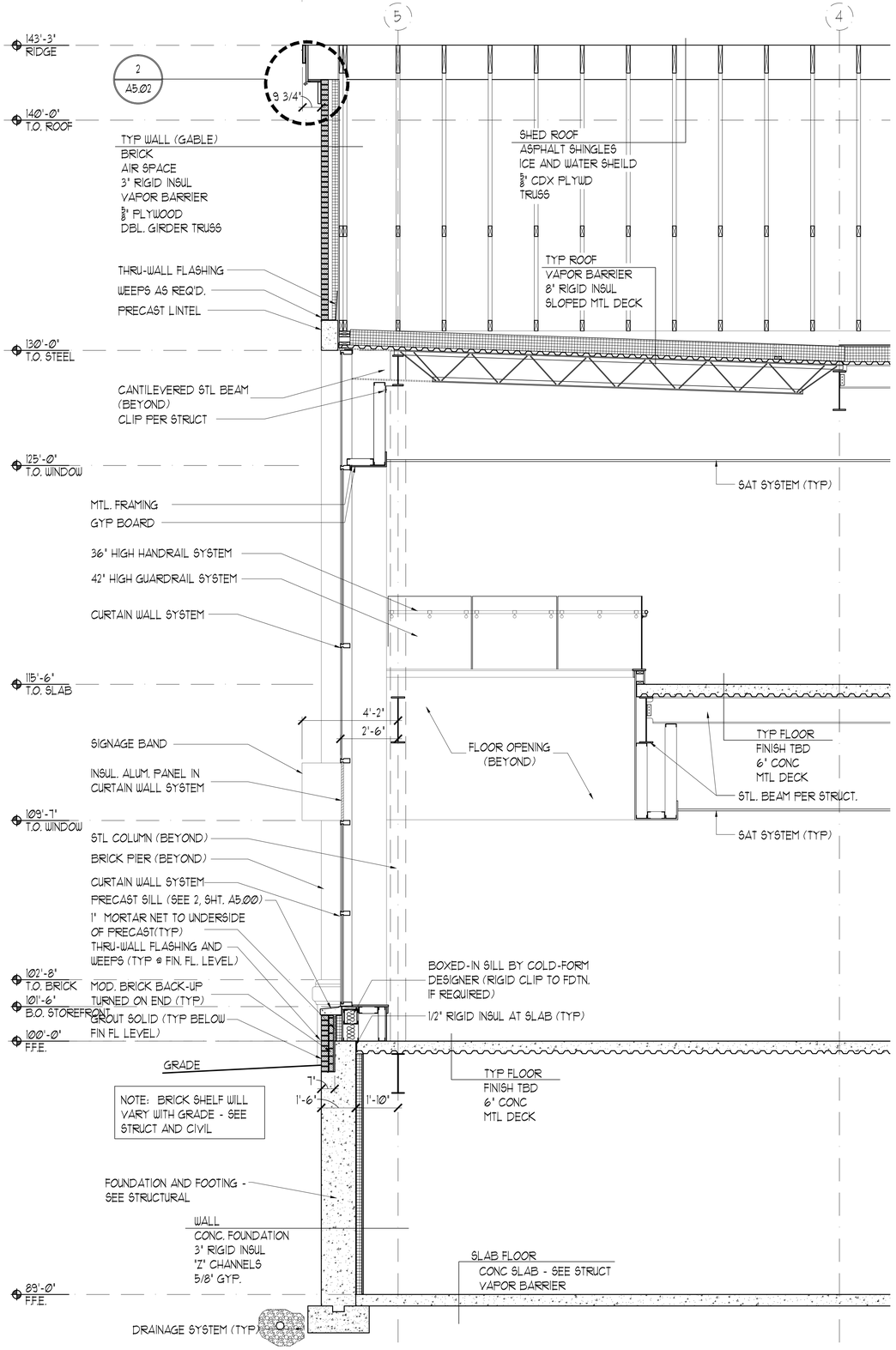
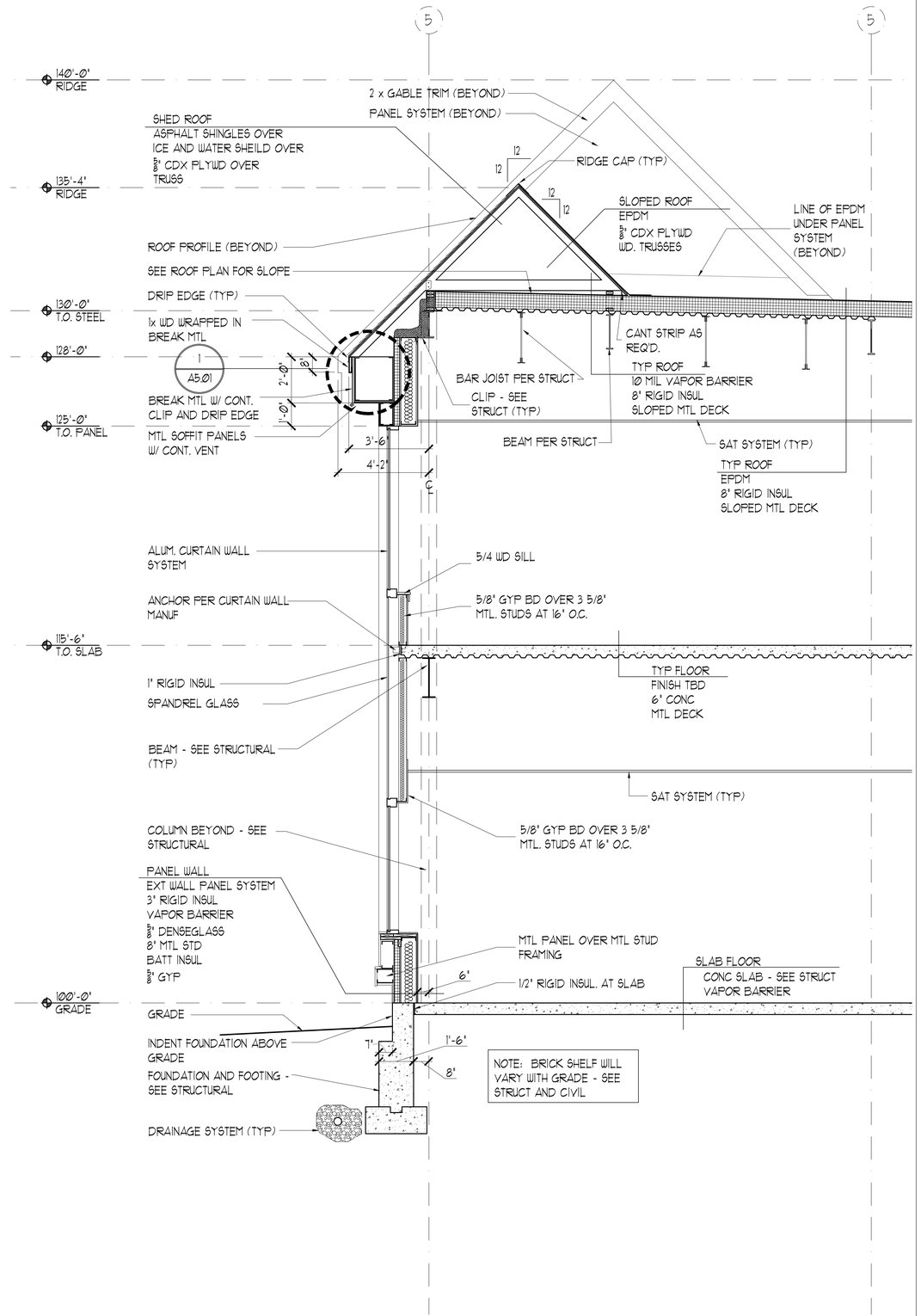
Scale



2 WALL SECTION

0 2' - 8' SCALE: 3/8" = 1'-0"



1 WALL SECTION - @ WINDOW FEATURE

0 2' - 8' SCALE: 3/8" = 1'-0"

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BUILDING SECTIONS

Project Number	12502
Date	May 11, 2012
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Checked by	LAS

A3.04

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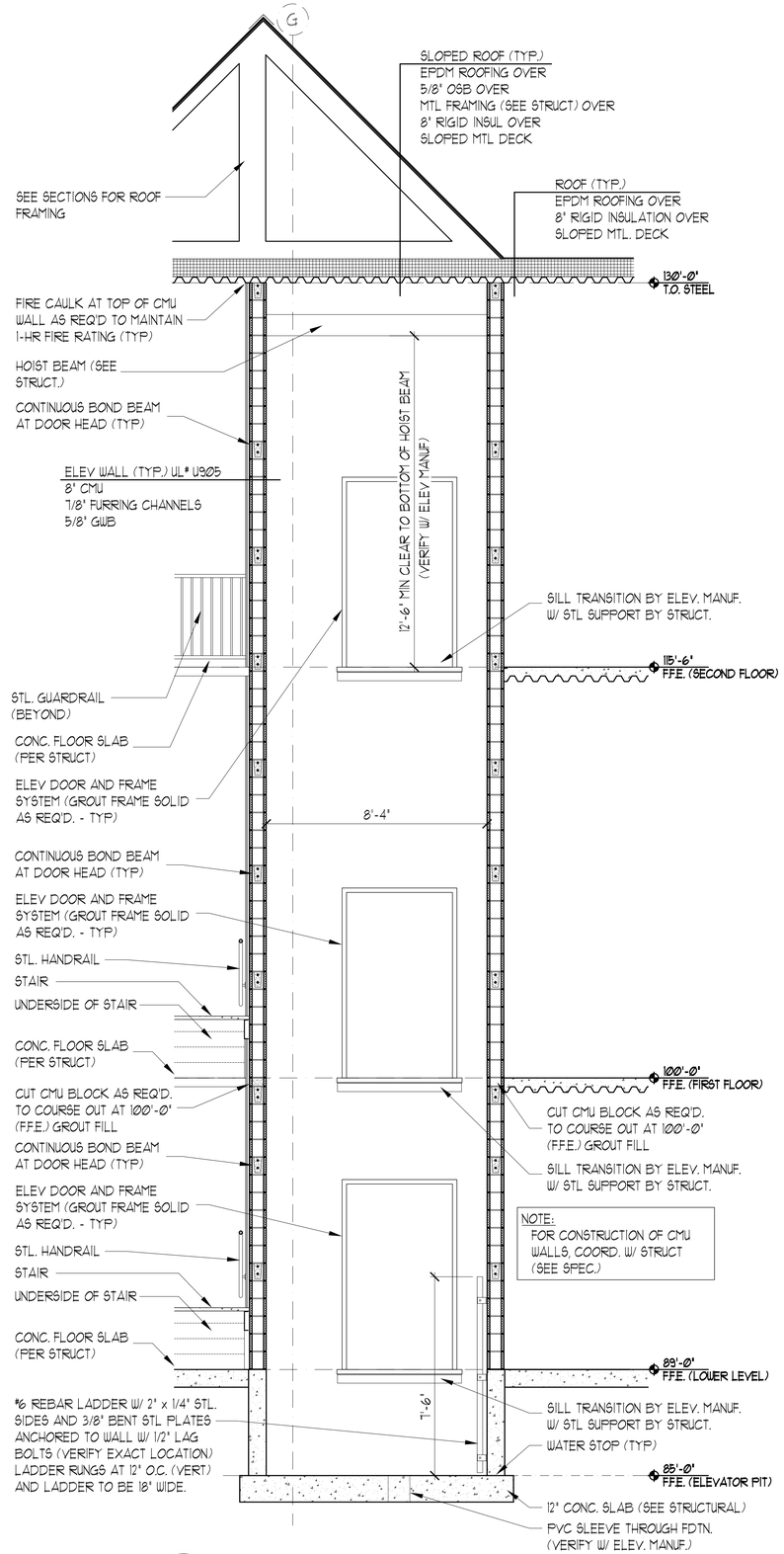
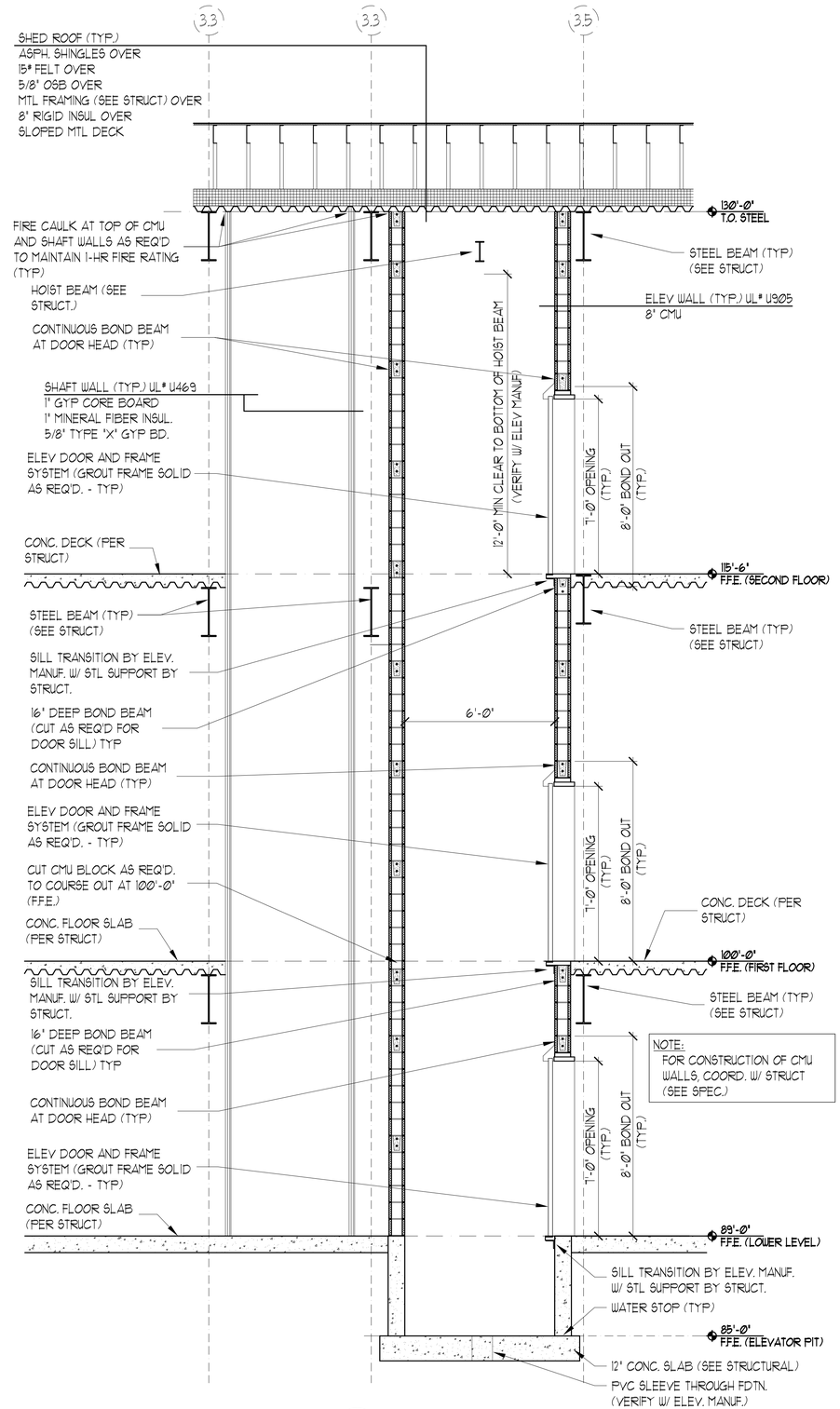


2 ELEVATOR SECTION

0 2'-8" SCALE: 3/8" = 1'-0"



1 ELEVATOR SECTION

0 2'-8" SCALE: 3/8" = 1'-0"

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CONSULTANTS

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No.	Description	Date

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PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

ELEVATOR SECTIONS

Project Number	12502
Date	May 11, 2012
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A3.05

Scale

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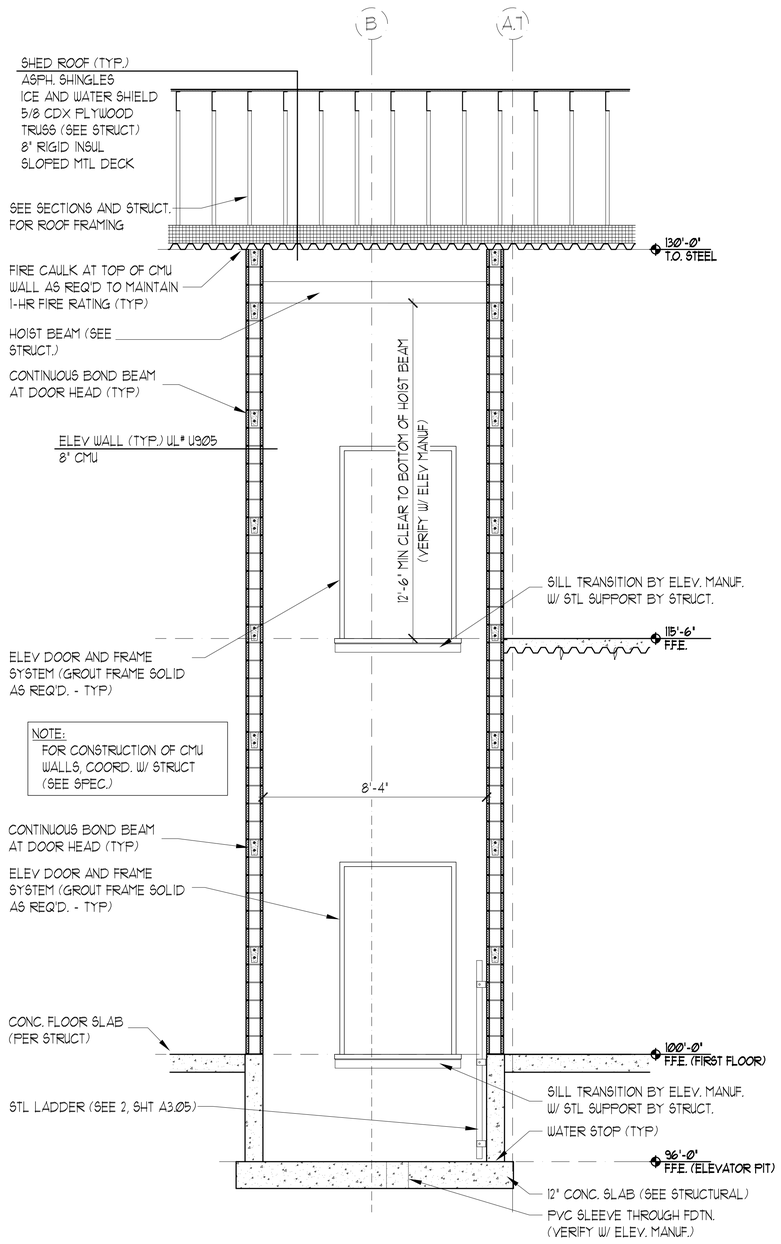
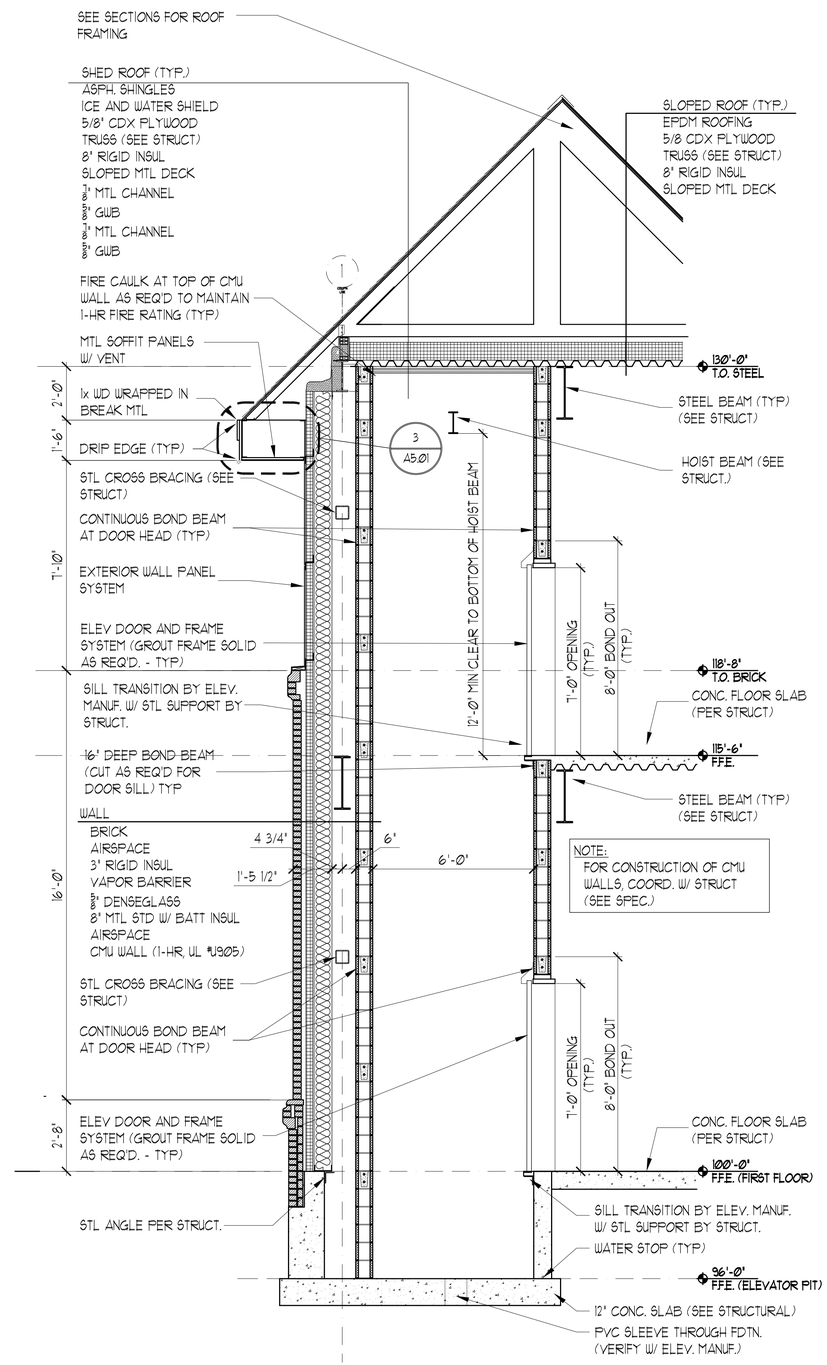


2 ELEVATOR SECTION

0 2'-8" SCALE: 3/8" = 1'-0"



1 ELEVATOR SECTION

0 2'-8" SCALE: 3/8" = 1'-0"

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REVISIONS

No.	Description	Date

PERMIT SET

UNIVERSITY OF NEW ENGLAND

PORTLAND, MAINE

PATIENT CARE CENTER

EXTERIOR SHELL

ELEVATOR SECTIONS

Project Number	12502
Date	May 11, 2012
Drawn by	JAP/MAC/JTC
Checked by	LAS

A3.06

Scale

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LICENSED ARCHITECT LISA BERRAU NO. 2861 STATE OF MAINE

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Kahler Slater architecture+design
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UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE
PATIENT CARE CENTER
EXTERIOR SHELL

STAIR A FLOORPLAN

Project Number	12502
Date	May 14, 2012
Drawn by	JAP/MAC/JTC
Checked by	LAS
Scale	

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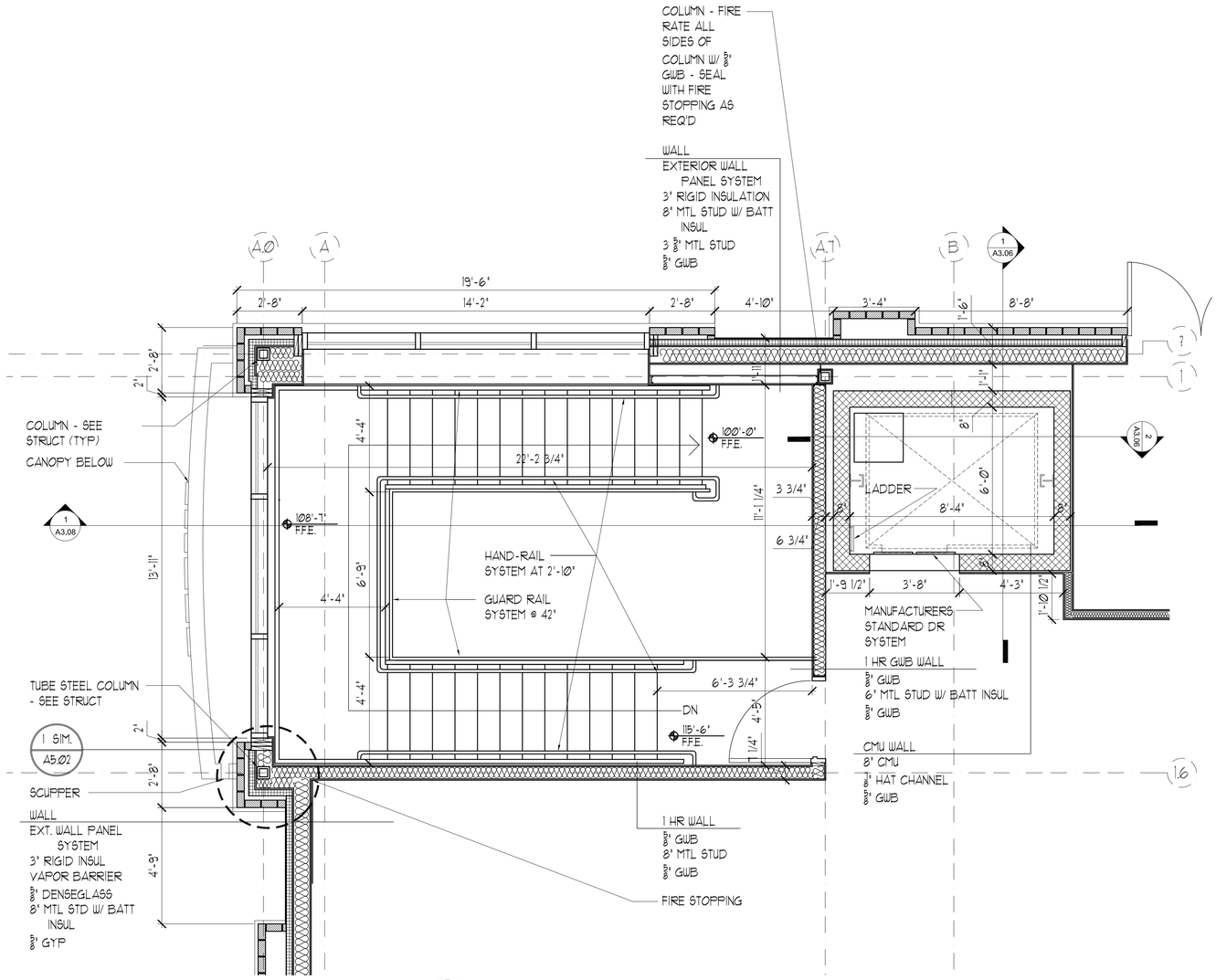
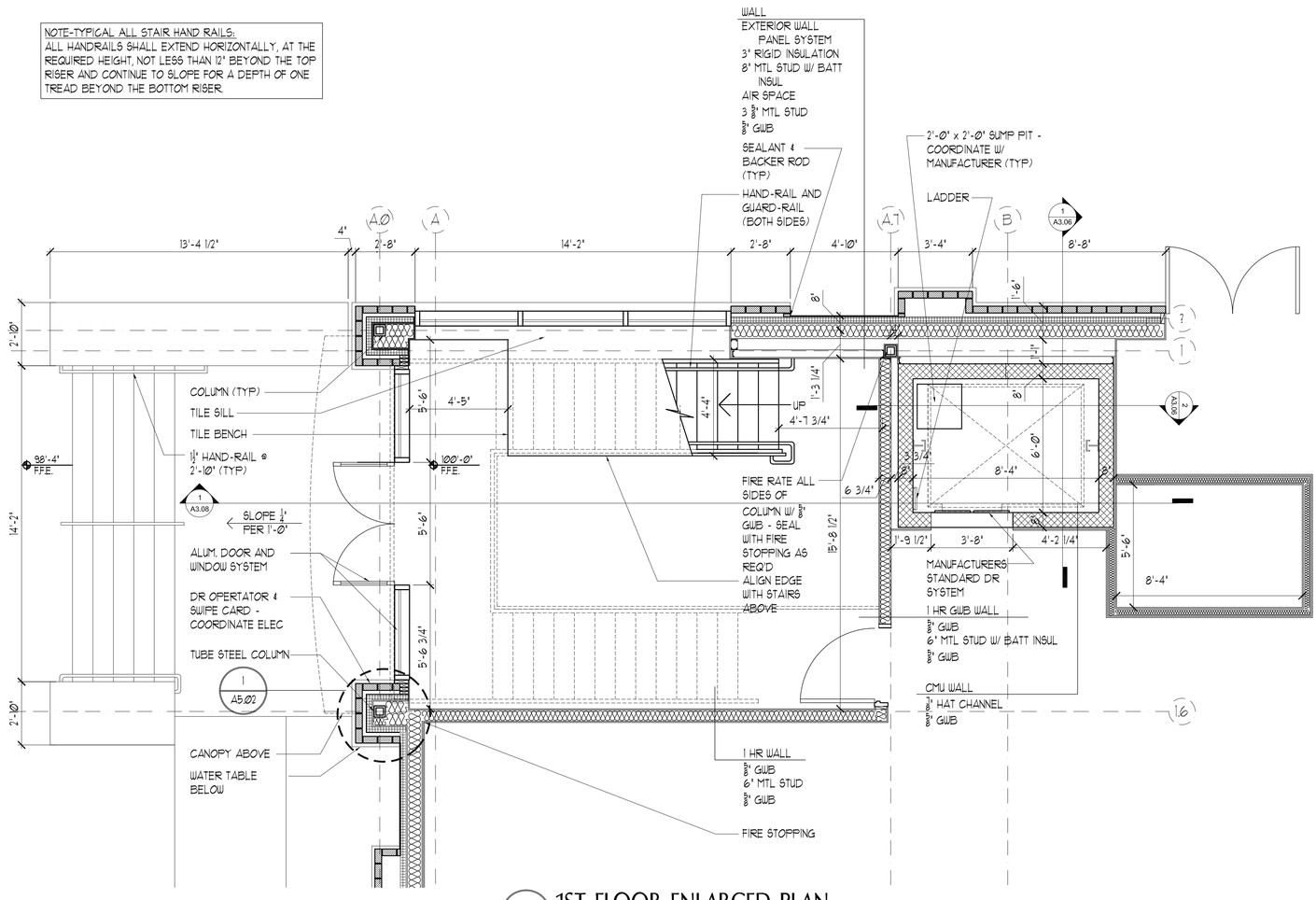


1 2ND FLOOR ENLARGED PLAN

0 2'-8" SCALE: 3/8" = 1'-0"

NOTE-TYPICAL ALL STAIR HAND RAILS:
ALL HANDRAILS SHALL EXTEND HORIZONTALLY, AT THE REQUIRED HEIGHT, NOT LESS THAN 12" BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR A DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER.



2 1ST FLOOR ENLARGED PLAN

0 2'-8" SCALE: 3/8" = 1'-0"

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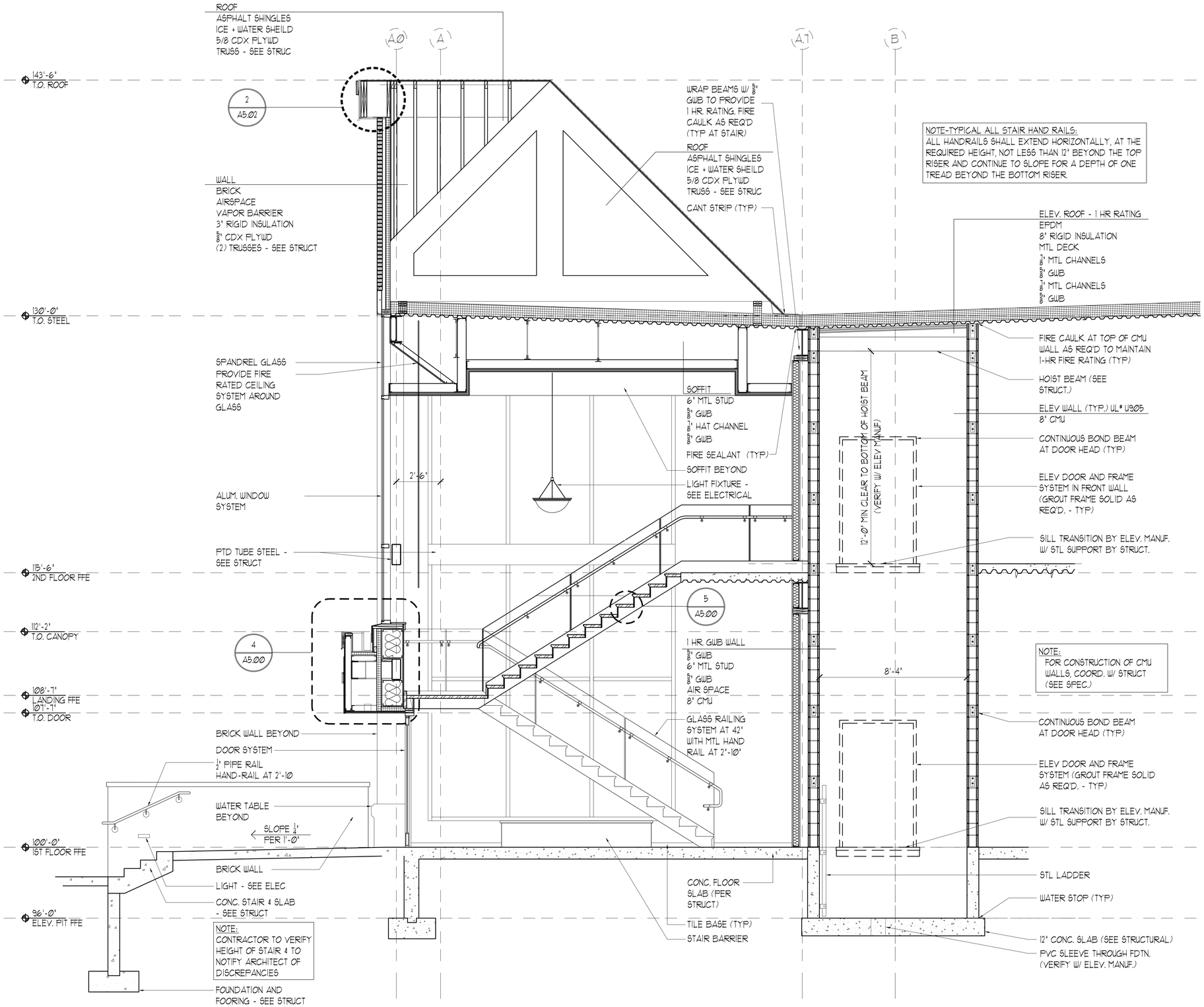

1 STUDENT ENTRY SECTION

0 2'-8" SCALE: 3/8" = 1'-0"

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NO. 2867
STATE OF MAINE

CONSULTANTS

Kahler Slater
experience design

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PATIENT CARE CENTER

EXTERIOR SHELL

STAIR A SECTION

Project Number	12502
Date	May 11, 2012
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Checked by	LAS

A3.08

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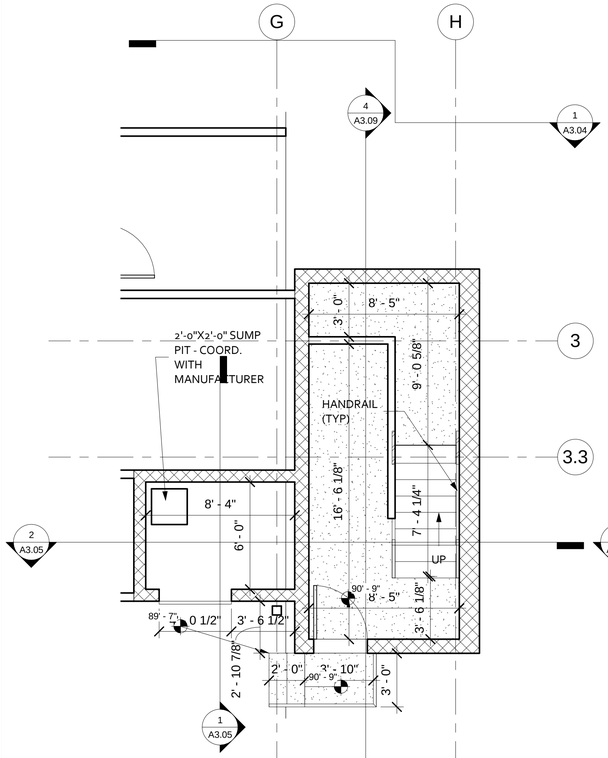
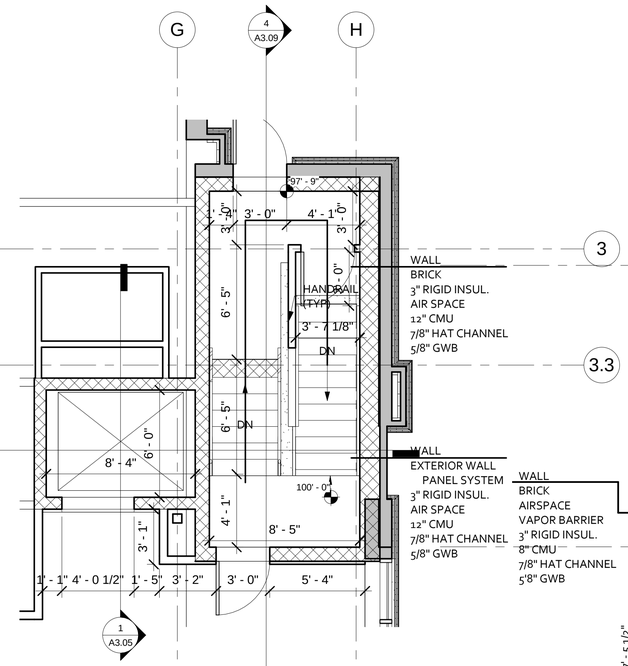
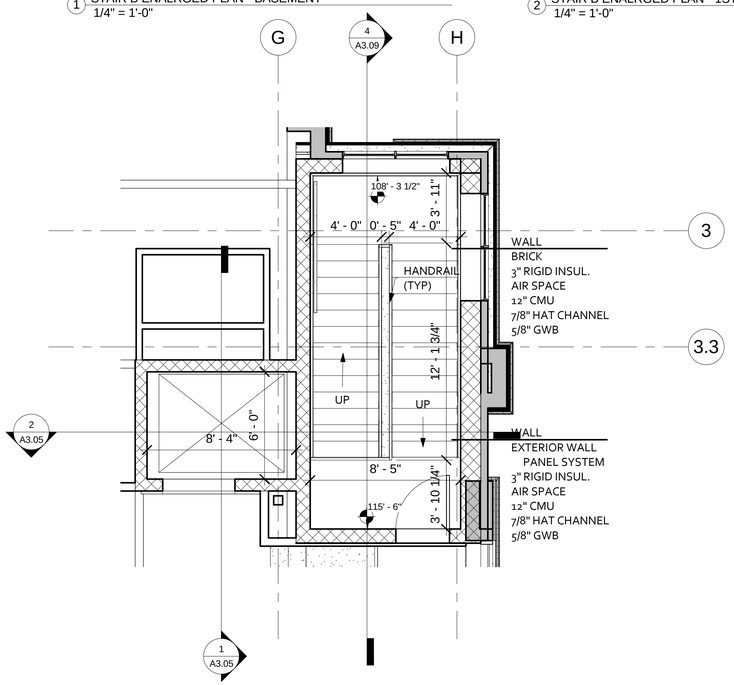


1 STAIR B ENALRGED PLAN - BASEMENT
1/4" = 1'-0"

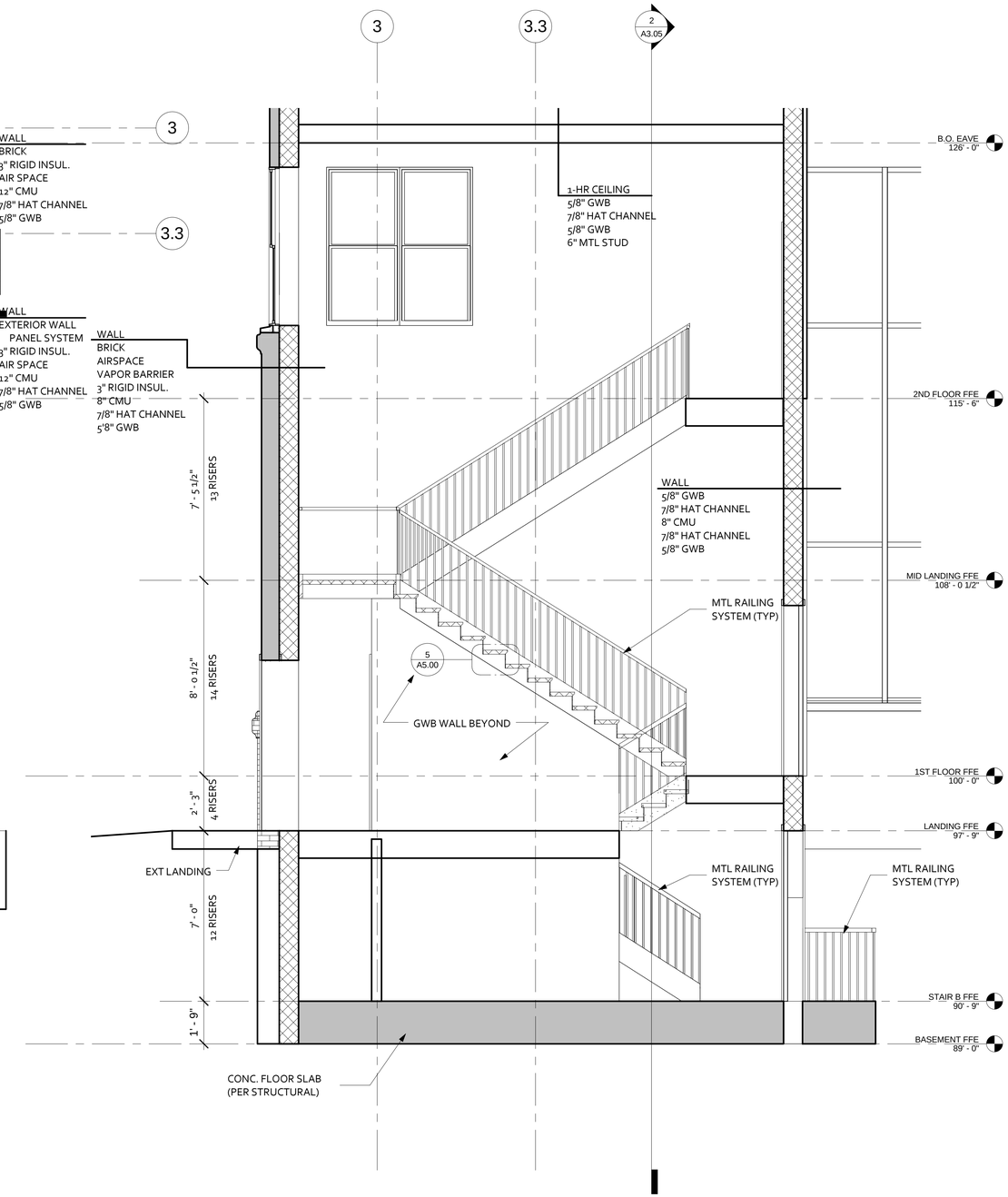


2 STAIR B ENALRGED PLAN - 1ST FLOOR
1/4" = 1'-0"



3 STAIR B ENALRGED - 2ND FLOOR
1/4" = 1'-0"

NOTE-TYPICAL ALL STAIR HAND RAILS:
ALL HANDRAILS SHALL EXTEND HORIZONTALLY, AT THE REQUIRED HEIGHT, NOT LESS THAN 12" BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR A DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER.



4 STAIR B SECTION
3/8" = 1'-0"

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REVISIONS

No.	Description	Date

PERMIT SET

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

STAIR B SECTION

Project Number	12502
Date	05.10.12
Drawn by	JAP/MAC/JTC
Checked by	LAS

A3.09

Scale: As indicated

5/11/2012 1:08:32 PM

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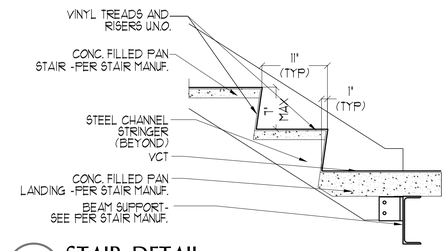
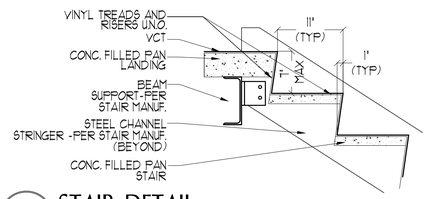


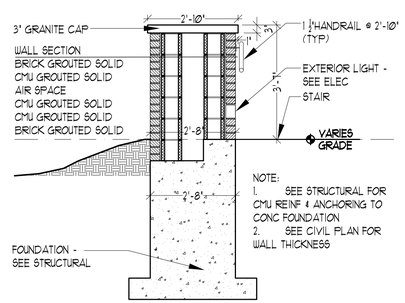
5 STAIR DETAIL

Ø 2' SCALE: 1" = 1'-Ø"



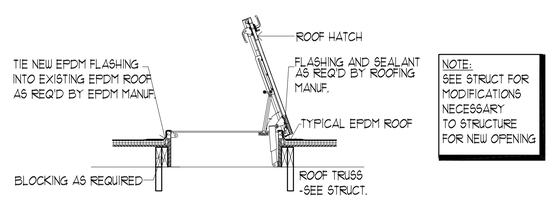
6 STAIR DETAIL

Ø 2' SCALE: 1" = 1'-Ø"



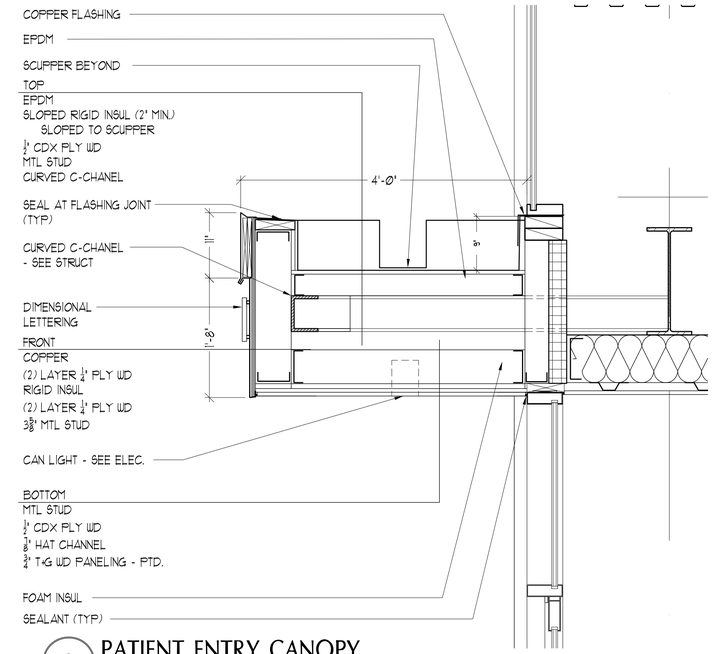
7 BRICK WALL DETAIL

Ø 2' SCALE: 1/2" = 1'-Ø"



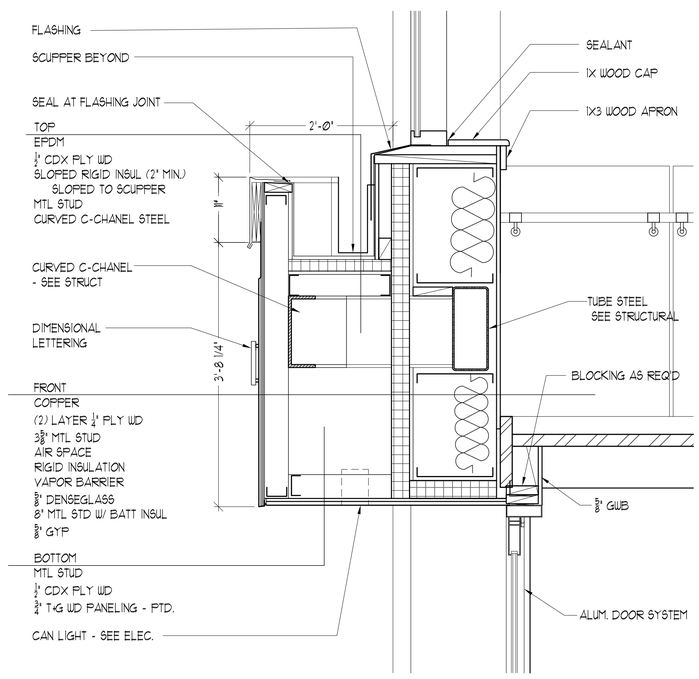
8 ROOF HATCH DETAIL

Ø 2' SCALE: 1/2" = 1'-Ø"



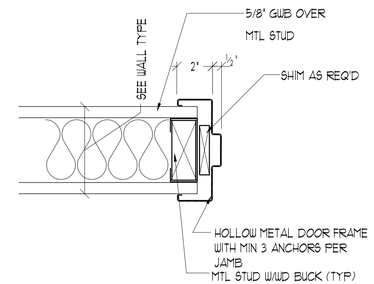
3 PATIENT ENTRY CANOPY

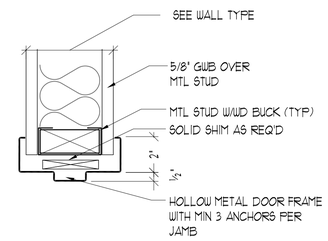
Ø 2' SCALE: 1" = 1'-Ø"

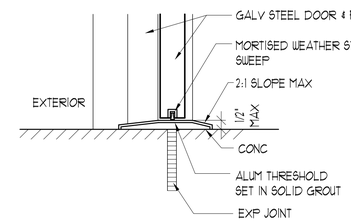


4 STUDENT ENTRY CANOPY

Ø 2' SCALE: 1" = 1'-Ø"

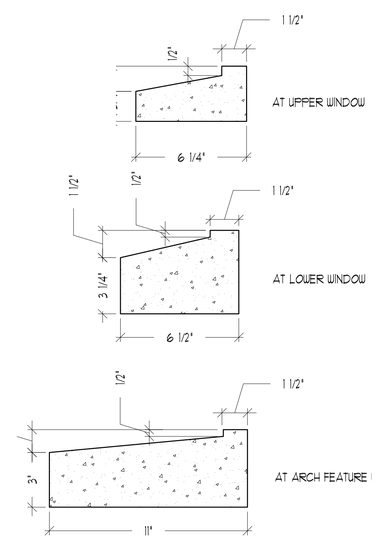






1 DOOR DETAILS

Ø 2' SCALE: 3" = 1'-Ø"



2 PRECAST CONCRETE SHAPES

Ø 2' SCALE: 1 1/2" = 1'-Ø"

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SCALE 1"=1' 3/4"=1' 1/2"=1' 1/4"=1' 1/8"=1' 1/16"=1'

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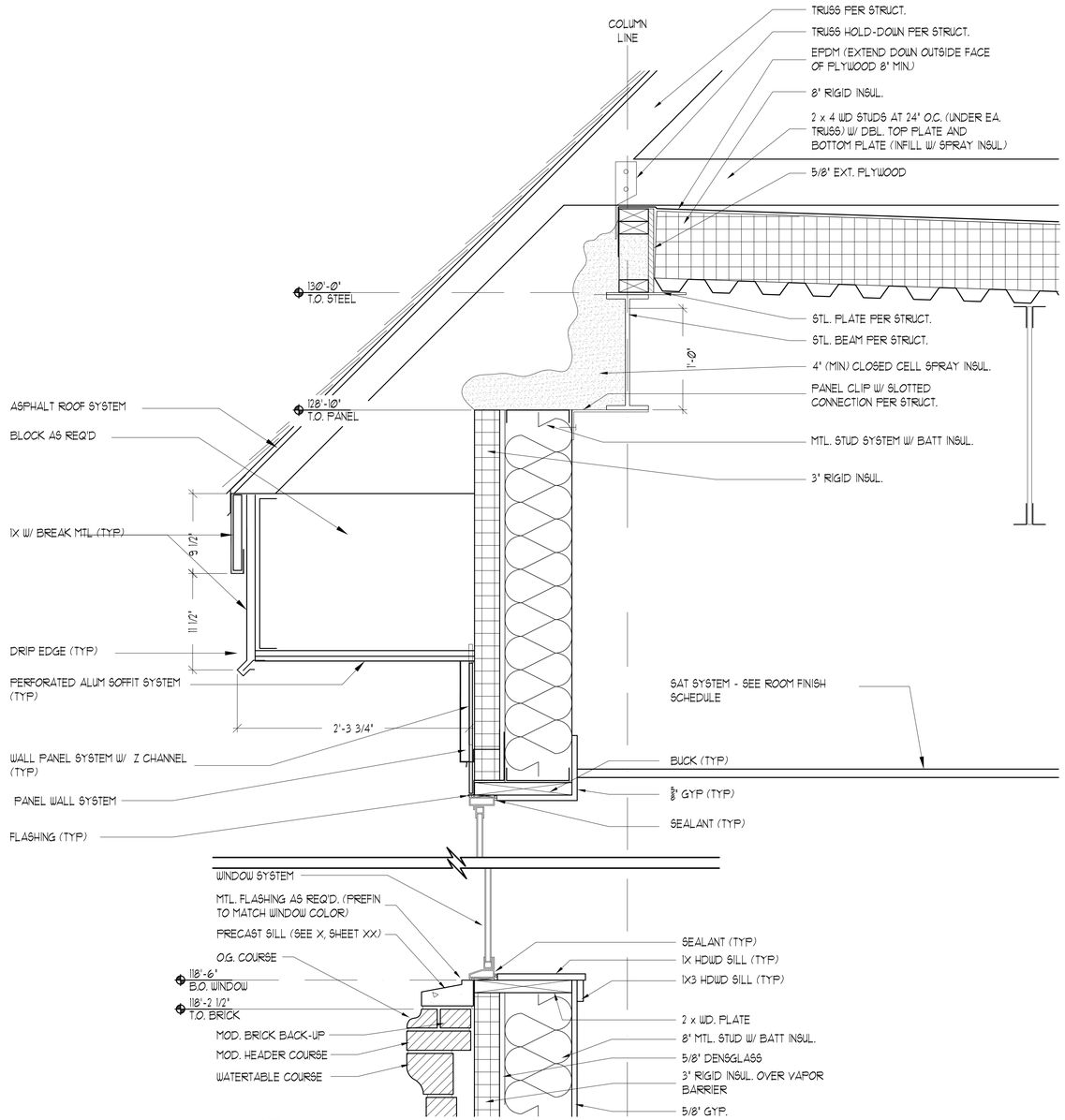
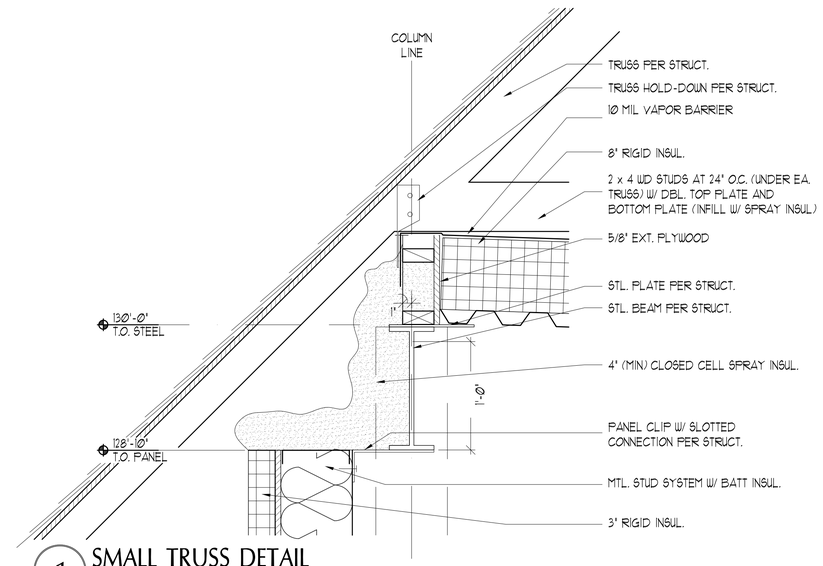


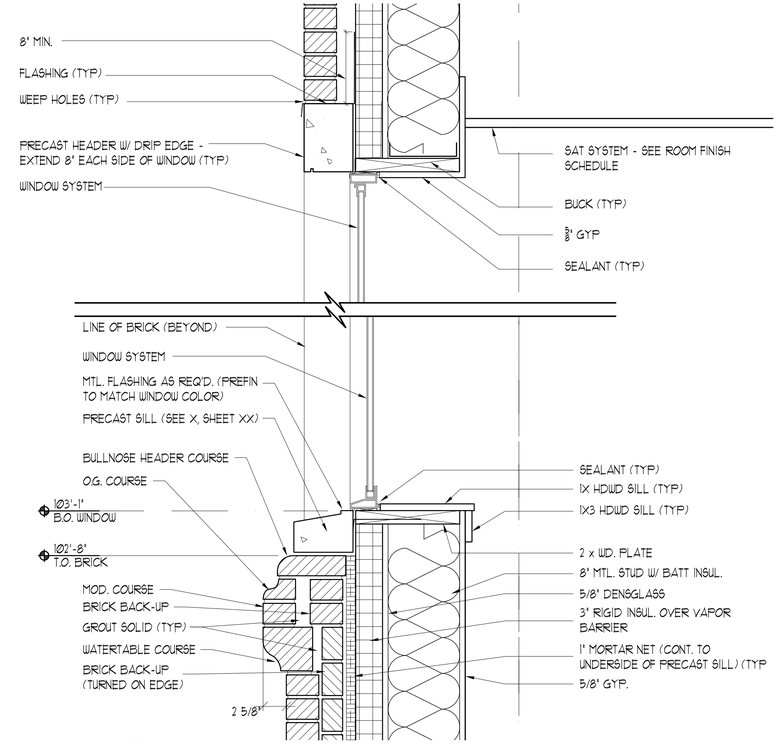
3 2ND FLOOR WINDOW AND EAVE DETAIL

0 2' SCALE: 1 1/2" = 1'-0"



1 SMALL TRUSS DETAIL

0 2' SCALE: 1 1/2" = 1'-0"



2 1ST FLOOR WINDOW DETAIL

0 2' SCALE: 1 1/2" = 1'-0"

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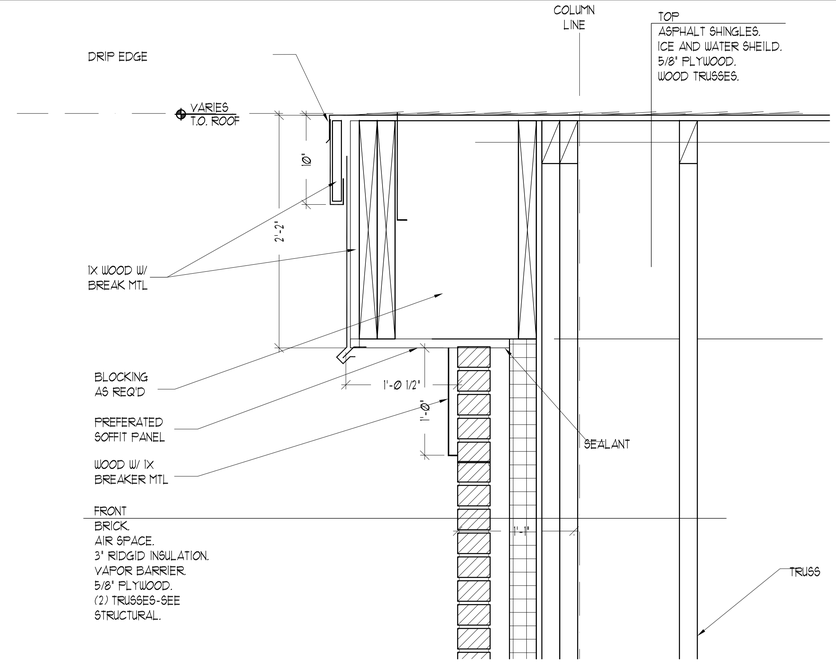
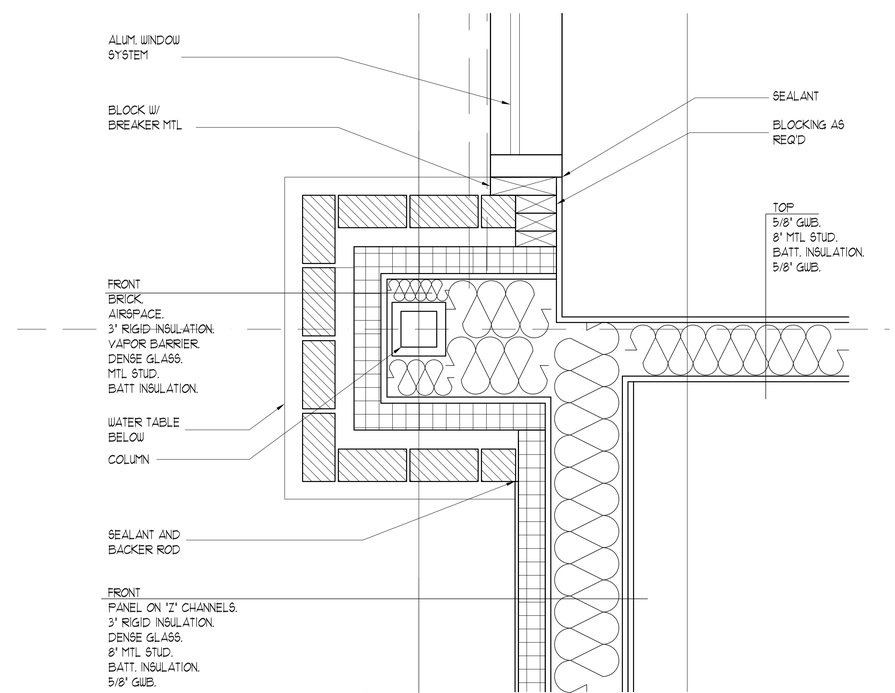


1 EAVE DETAIL

0 2' SCALE: 1 1/2" = 1'-0"



2 ENTRY DETAIL

0 2' SCALE: 1 1/2"=1'-0"

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DOOR SCHEDULE

			DOOR			FRAME	NOTES
NUM	DESCRIPTION	SIZE	MAT	Type	RATING	MAT	
001A	STAIR B TO MECH	3'-0" X 7'-0"	WD	1	1 HR	HM	D
002A	MECH TO ELEV MACHINE	3'-0" X 7'-0"	WD	1	45 MIN	HM	D
004A	MECH TO IT	3'-0" X 7'-0"	WD	1	-	HM	D
005A	ELEC ROOM TO EMERGENCY POWER	3'-0" X 7'-0"	WD	1	90 MIN	HM	D
006A	MECH TO ELEC ROOM	3'-0" X 7'-0"	WD	1	45 MIN	HM	D
006B	MECH TO ELEC ROOM	3'-0" X 7'-0"	WD	1	45 MIN	HM	D
100A	EXTERIOR TO VESTIBULE	(2) 3'-0" X 7'-0"	ALUM	4	-	ALUM	C,D
100B	VESTIBULE TO WAITING	(2) 3'-0" X 7'-0"	ALUM	4	-	ALUN	D
101A	WAITING TO STAIR B	3'-0" X 7'-0"	WD	2	1 HR	MTL	D
101B	STAIR B TO EXTERIOR	3'-0" X 7'-0"	HM	1	-	HM	D
101C	STAIR B TO STAIR B	3'-0" X 7'-0"	WD	2	-	MTL	D
123A	CORRIDOR TO SIMULATION	3'-0" X 7'-0"	WD	5	-	MTL	B
123B	SIMULATION TO SIMULATION LAB	3'-0" X 7'-0"	WD	6	-	MTL	
135A	EXTERIOR TO STAIR A	(2) 3'-0" X 7'-0"	WD	4	-	MTL	B,C,D
135B	STAIR A TO CORRIDOR	3'-0" X 7'-0"	WD	2	1 HR	MTL	D
137A	CORRIDOR TO ELEV MACHINE ROOM	3'-0" X 7'-0"	WD	1	45 MIN	MTL	D
138A	CORRIDOR TO DOCK/ RECEIVING/MAINTENENCE	(2) 3'-0" X 7'-0"	WD	3	-	MTL	B,D
146A	SHARED WAIT TO IPE SHELL	3'-0" X 7'-0"	WD	1	-	MTL	
146B	CORRIDOR TO IPE SHELL	3'-0" X 7'-0"	WD	1	-	MTL	
201A	STAIR B TO SUB WAIT	3'-0" X 7'-0"	WD	2	2	MTL	
211A	CORRIDOR TO STOR	3'-0" X 7'-0"	WD	5	-	MTL	E
211B	FACULTY TOUCHDOWN TO HALL	3'-0" X 7'-0"	WD	5	-	MTL	
228A	SPECIALITY RESIDENT TO ELEC. CLOSET	(2) 3'-0" X 7'-0"	WD	3	45 MIN	MTL	
229A	SPECIALITY RESIDENT TO ELEC. CLOSET	3'-0" X 7'-0"	WD	1	90 MIN	MTL	
229B	SPECIALITY RESIDENT TO ELEC. CLOSET	3'-0" X 7'-0"	WD	1	90 MIN	MTL	
239A	HALL TO ELEC. CLOSET	(2) 2'-6" X 7'-0"	WD	3	45 MIN	MTL	
239B	HALL TO ELEC. CLOSET	(2) 2'-6" X 7'-0"	WD	3	45 MIN	MTL	
243A	CORRIDOR TO CORRIDOR	3'-0" X 7'-0"	WD	5	-	MTL	B
243B	CORRIDOR TO HALL	3'-0" X 7'-0"	WD	5	-	MTL	E

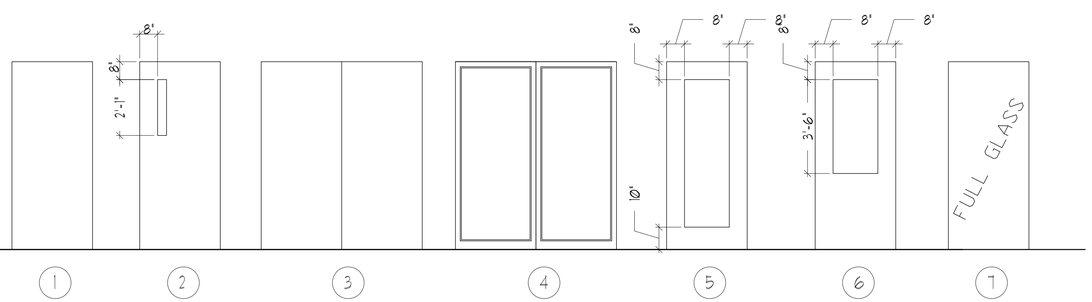
NOTES:
A. Sliding door
B. Provide security swipe card
C. Provide ADA door opener
D. Exterior shell package
E. Provide Magnetic Hold Back

GENERAL NOTE:
1. CONTRACTOR TO COORDINATE DOOR FRAME THICKNESS INCLUDING AT MASONRY WALLS.
2. PROVIDE SWIPE CARD IN ELEV. A.

ROOM FINISH SCHEDULE

		FLOORS		BASE		WALLS								CEILINGS			
NUM	ROOM NAME	MATERIAL	COLOR	MAT	COLOR	N	FINISH	E	FINISH	S	FINISH	W	FINISH	FINISH	FINS	HEIGHT	NOTES
001	STAIR B	CONC	-	VB	-	CONC	N/A	CONC	N/A	CONC	N/A	GWB	PTD	STRUCT	-	10' - 4"	1
002	MECH. ROOM	CONC	-	VB	-	CONC	N/A	CONC	N/A	CONC	N/A	GWB	PTD	STRUCT	-	10' - 4"	1
003	ELEV MACHINE	CONC	-	VB	-	CMU	N/A	GWB	PTD	GWB	PTD	GWB	PTD	STRUCT	-	10' - 4"	1
004	IT	CONC	-	VB	-	CONC	N/A	GWB	PTD	GWB	PTD	GWB	PTD	STRUCT	-	10' - 4"	1
005	EMERGENCY POWER	CONC	-	VB	-	CONC	N/A	CONC	N/A	GWB	PTD	GWB	PTD	STRUCT	-	10' - 4"	1
006	ELECTRICAL	CONC	-	VB	-	GWB	PTD	CONC	N/A	CONC	N/A	GWB	PTD	STRUCT	-	10' - 4"	1
007	STAIR	CONC	-	VB	-	CONC	N/A	CMU	PTD	CMP	PTD	CONC	N/A	STRUCT	-	VARIES	1
100	AIR LOCK	TILE	-	TILE		GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD		
101	STAIR A	TILE	-	VB		GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	VARIES	
102	LOBBY	CONC	-	N/A		GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	STRUCT		15' - 4"	
104	HALLWAY	CONC	-	N/A		GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	STRUCT		15' - 4"	
121	ELEC.	VCT	-	VB		GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	STRUCT		15' - 4"	
122	IT	VCT	-	VB		GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	STRUCT		15' - 4"	
123	FUTURE B	CONC	-	N/A		N/A	-	N/A	-	N/A	-	N/A	-	STRUCT		15' - 4"	
135	STAIR B	TILE/ WM	-	TILE		GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	VARIES	
137	ELEV. MECH	CONC	-	VB		GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	STRUCT		15' - 4"	1
146	FUTURE A	CONC	-	N/A		N/A	-	N/A	-	N/A	-	N/A	-	STRUCT		15' - 4"	
201	STAIR A	TILE	-	VB	-	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	VARIES	-
202	HALLWAY	CONC	-	N/A	-	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	STRUCT	-	14' - 0"	-
211	FUTURE C	CONC	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-	STRUCT	-	14' - 0"	-
226	STAIR B	TILE	-	TILE	-	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	VARIES	-
228	ELECTRICAL	VCT	-	VB	-	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	STRUCT	-	14' - 0"	-
229	ELECTRICAL	VCT	-	VB	-	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	STRUCT	-	14' - 0"	-
239	ELECTRICAL	VCT	-	VB	-	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	STRUCT	-	14' - 0"	-
243	FUTURE D	CONC	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-	STRUCT	-	14' - 0"	-

NOTES:
1. SEAL CONCRETE FLOORS
2. AT ELEV, ALL FINISHES BY MANUFACTURE EXCEPT FOR FLOORING
3. STAIR TREAD, STAIR RISERS, STAIR LANDING, BUILT PARTITIONS & DOORS IN GODDARD RENOVATION EXTERIOR SHELL SET. ALL OTHER FINISHES INCLUDING HISTORY ROOM (H101) TO BE IN FUTURE INTERIOR FIT-OUT SET.
4. PTD & ADDITIONAL FINISHES IN PHASE 2 FIT OUT
5. REPLACE ANY FINISHES DAMAGED IN CONSTRUCTION



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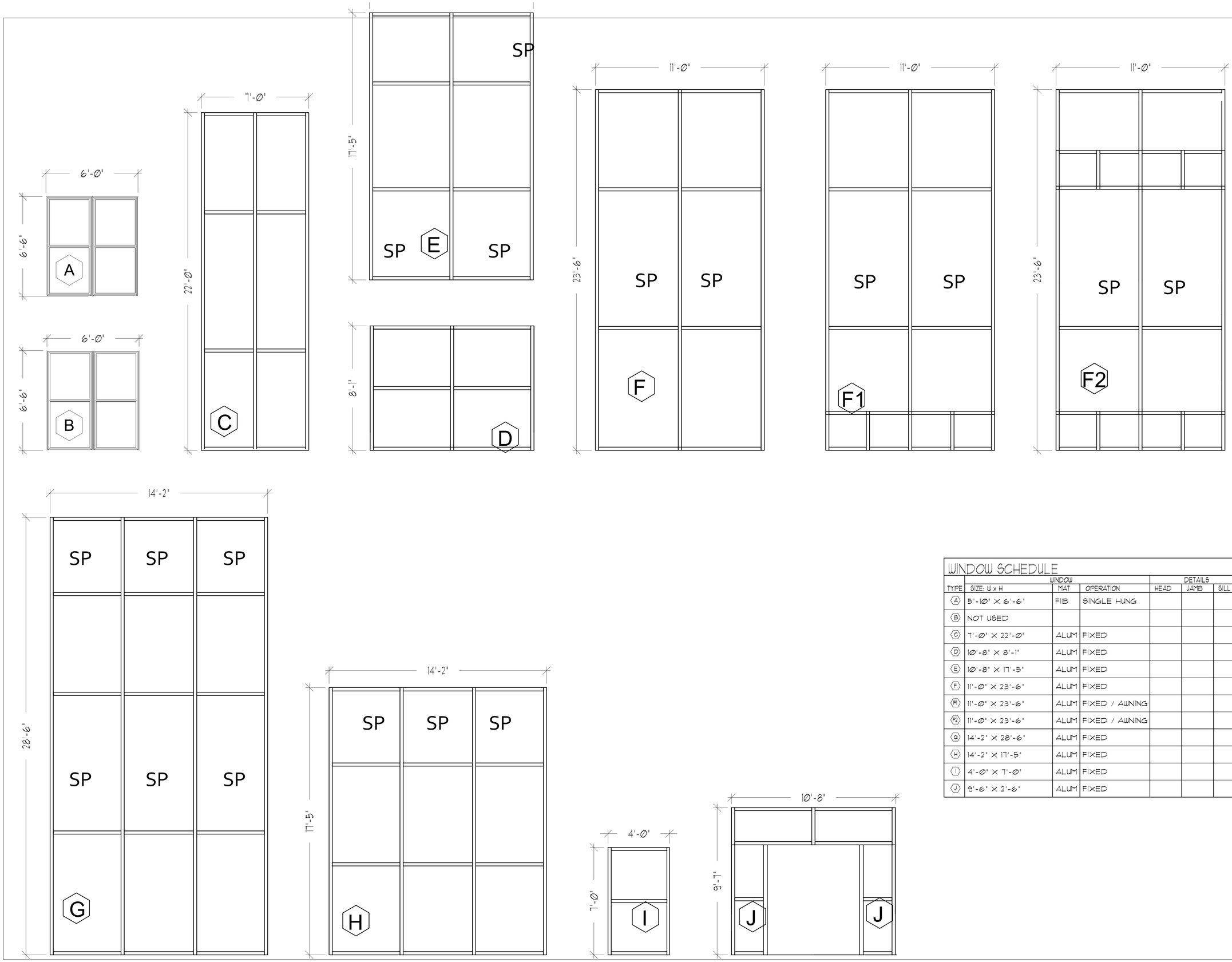

WINDOW SCHEDULE

TYPE	WINDOW SIZE: W x H	WINDOW MAT	WINDOW OPERATION	DETAILS HEAD	DETAILS JAMB	DETAILS SILL
A	5'-10" X 6'-6"	FIB	SINGLE HUNG			
B	NOT USED					
C	7'-0" X 22'-0"	ALUM	FIXED			
D	10'-8" X 8'-1"	ALUM	FIXED			
E	10'-8" X 17'-5"	ALUM	FIXED			
F	11'-0" X 23'-6"	ALUM	FIXED			
F1	11'-0" X 23'-6"	ALUM	FIXED / AWNING			
F2	11'-0" X 23'-6"	ALUM	FIXED / AWNING			
G	14'-2" X 28'-6"	ALUM	FIXED			
H	14'-2" X 17'-5"	ALUM	FIXED			
I	4'-0" X 7'-0"	ALUM	FIXED			
J	9'-6" X 2'-6"	ALUM	FIXED			

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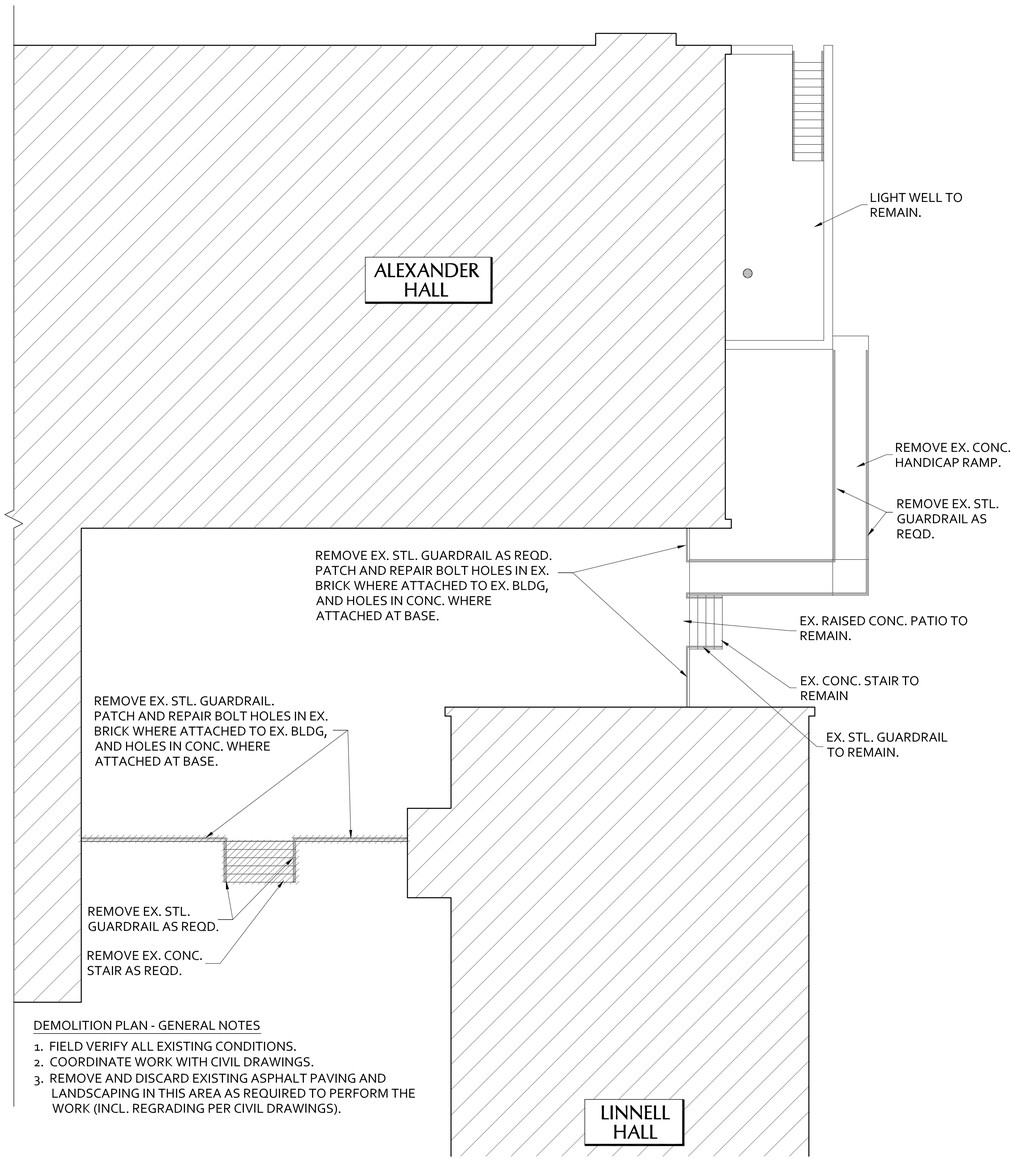
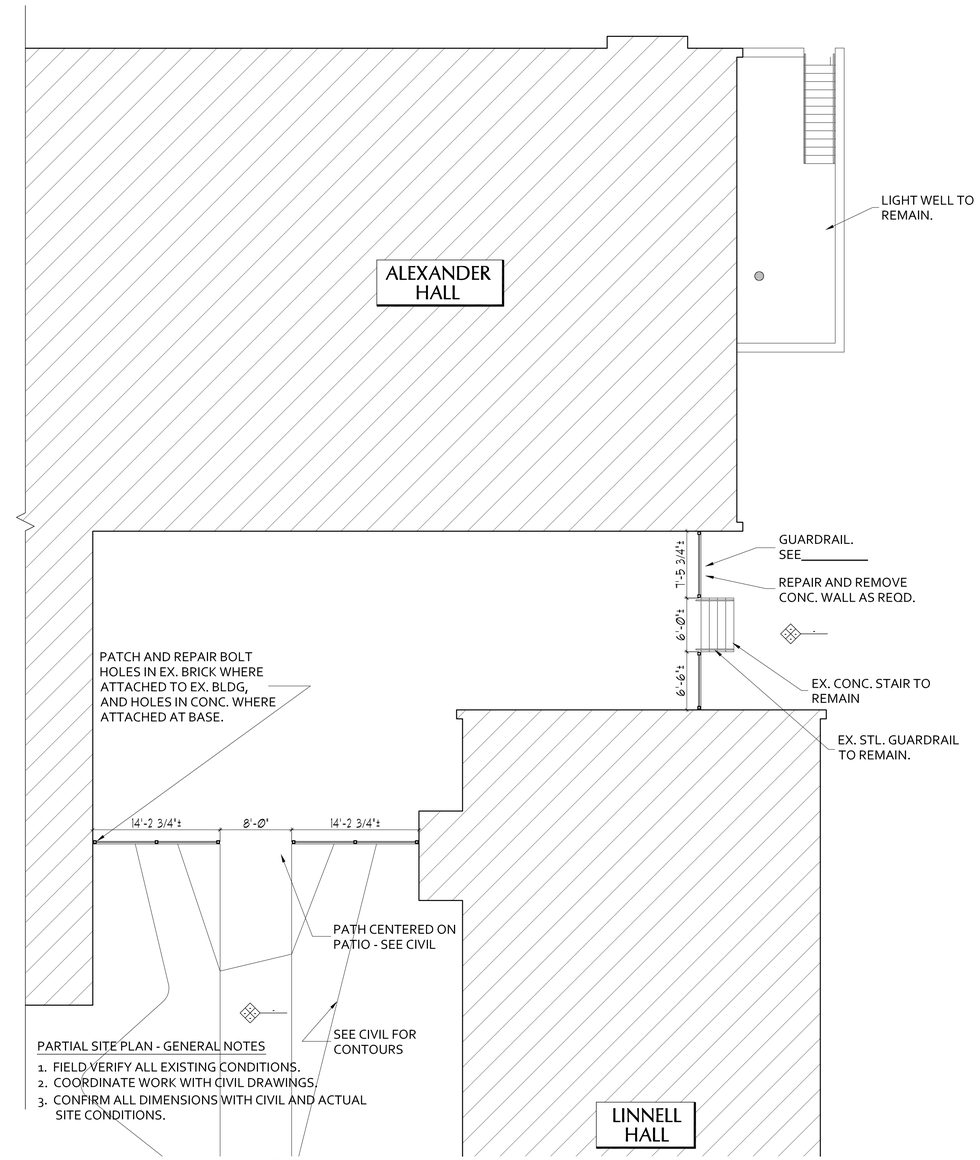


DEMOLITION PLAN - GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS.
2. COORDINATE WORK WITH CIVIL DRAWINGS.
3. REMOVE AND DISCARD EXISTING ASPHALT PAVING AND LANDSCAPING IN THIS AREA AS REQUIRED TO PERFORM THE WORK (INCL. REGRADING PER CIVIL DRAWINGS).

1 DEMOLITION PLAN

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



PARTIAL SITE PLAN - GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS.
2. COORDINATE WORK WITH CIVIL DRAWINGS.
3. CONFIRM ALL DIMENSIONS WITH CIVIL AND ACTUAL SITE CONDITIONS.

2 PARTIAL SITE PLAN

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

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ALEXANDER PLANS

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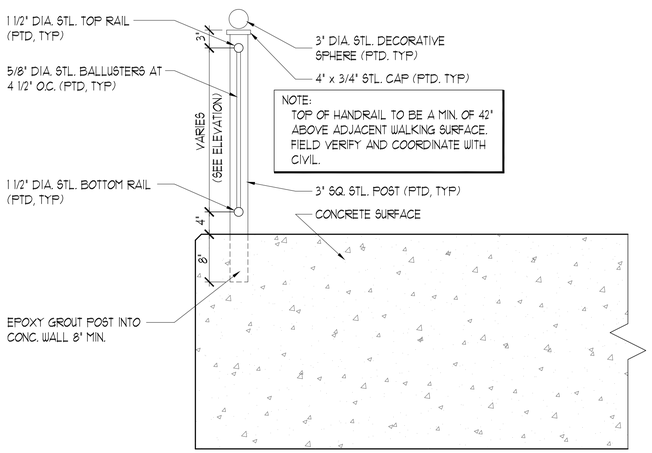
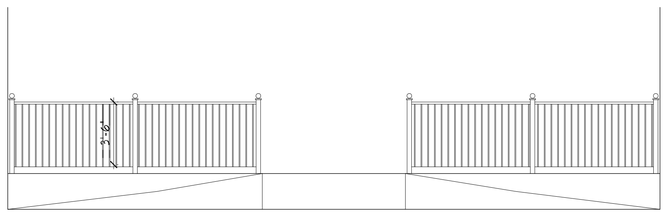
2 ELEVATIONS

Ø 1'-Ø" SCALE: 1/4" = 1'-Ø"



3 RETAINING WALL SECTION

Ø 1'-Ø" SCALE: 1" = 1'-Ø"



1 ELEVATIONS

Ø 1'-Ø" SCALE: 1/4" = 1'-Ø"

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ALEXANDER DETAILS

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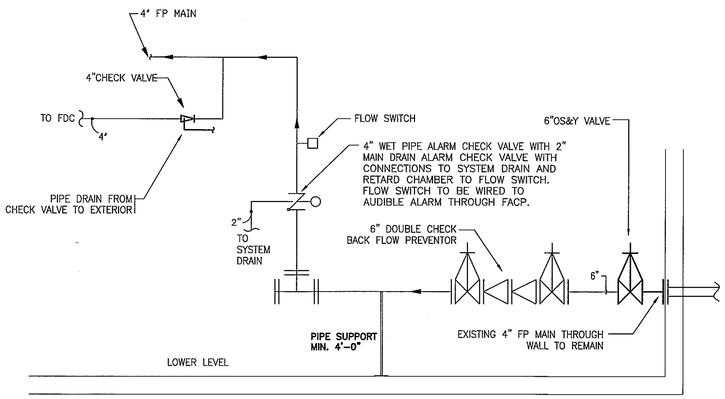
SPRINKLER HEAD SCHEDULE

SYMBOL	MRG	STYLE	DESCRIPTION
●	RELIABLE	QUICK RESPONSE CONCEALED	MODEL G-4 – TO MATCH EXISTING
⊙	RELIABLE	QUICK RESPONSE UPRIGHT	MODEL – F1 – CHROME

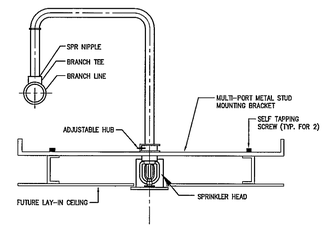
FIRE PROTECTION LEGEND

—F—	F	FIRE PROTECTION (NEW)
—SPR—	SPR	SPRINKLER SUPPLY LINES (NEW)
●		SPRINKLER HEAD (NEW)
⊙		UPRIGHT SPRINKLER HEAD (NEW)
—▨—	FCVS	FLOOR CONTROL VALVE STATION
—●		PIPE DN
—○		PIPE UP
—⊐		CAP PIPNG
	SPR	SPRINKLER
⊔	PC	PUMPER CONNECTION
⊗	MACV	MAIN ALARM CONTROL VALVE



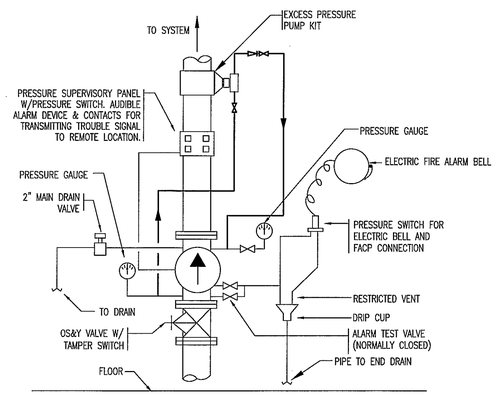
FIRE PROTECTION SERVICE DETAIL

NOT TO SCALE



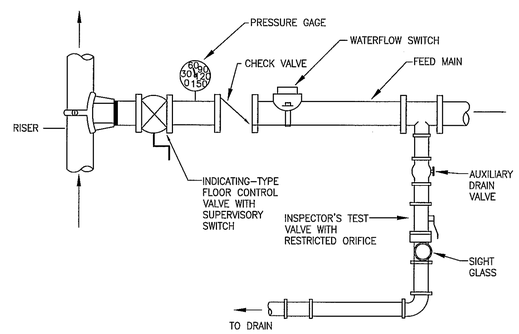
TYPICAL FOR AREAS WHERE SPRINKLERS ARE REQUIRED BELOW CEILING

NOT TO SCALE



WET PIPE MAIN ALARM CHECK VALVE [MACV]

NOT TO SCALE



FLOOR CONTROL VALVE W/ ASSEMBLY DETAIL

NOT TO SCALE

FIRE PROTECTION GENERAL NOTES

1.00 BASIS OF DESIGN: INTERNATIONAL BUILDING CODE – 2009, MAINE UNIFORM BUILDING AND ENERGY CODES, NFPA 13–2007

1.01 SPRINKLERS SYSTEMS, SHALL BE INSTALLED BY A LICENSED SPRINKLER CONTRACTOR WITH LICENSED SPRINKLER FITTERS.

2.00 SPRINKLER SYSTEM

2.01 SPRINKLERS SHALL BE INSTALLED IN ALL AREAS OF THE PROJECT

2.02 THE SPRINKLER SYSTEM SHALL BE SIZED ACCORDING TO NFPA–13

2.03 THE SPRINKLER SYSTEM SHALL BE AN AUTOMATIC WET TYPE SYSTEM.

3.00 PIPE HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA–13

3.01 NO OTHER PIPING OR DEVICES ARE TO BE ATTACHED TO SPRINKLER PIPE HANGING SYSTEM.

3.02 PIPING SHALL BE INSTALLED WITH EARTHQUAKE BRACING IN ACCORDANCE WITH NFPA 13 AND THE MAINE UNIFORM BUILDING AND ENERGY CODES.

4.00 SPRINKLERS:

4.01 SPRINKLER HEADS ARE TO BE AS SHOWN AND SHALL MATCH BUILDING STANDARDS NOTED UNLESS OTHERWISE.

4.02 ALL SPRINKLER HEADS ARE TO BE MOUNTED IN ACCORDANCE AND AS REQUIRED BY SPRINKLER HEAD MFG.

5.00 RECORD DRAWINGS & COORDINATION DRAWINGS

5.01 COORDINATION DRAWINGS ARE REQUIRED AND SHALL BE PROVIDED BY THE FP CONTRACTOR FOR ARCHITECT'S AND OWNER'S USE DURING CONSTRUCTION AND SHALL NOT BE CONSTRUED AS REPLACING ANY SHOP DRAWINGS. THE CAD COORDINATION DRAWINGS, WHEN CORRECTED FOR ACTUAL "AS–BUILT" CONDITIONS, WILL BE REVIEWED BY THE ARCHITECT, CORRECTED AND WILL BE USED TO FORMULATE THE RECORD DRAWINGS TO BE SUBMITTED TO THE OWNER FOR HIS USE.

5.02 THE FIRE PROTECTION SUBCONTRACTOR SHALL SUBMIT A SET OF CAD FILES ON DISC MARKED "AS–BUILTS" AT THE END OF THE PROJECT. ALL COSTS ASSOCIATED WITH. THIS SHALL BE BY THE CONTRACTOR.

5.03 SUBMIT SPRINKLER SHOP DRAWING SUBMITTALS FOR PIPING, HANGERS, SPRINKLER HEADS & SPRINKLER HEAD LAYOUT.

FIRE PROTECTION SYSTEM - NARRATIVE SUMMARY

UNIVERSITY OF NEW ENGLAND
PATIENT CARE CENTER
PORTLAND, ME.

FIRE PROTECTION SYSTEM NARRATIVE

THE PROPOSED BUILDING SHALL BE PROTECTED WITH AN AUTOMATIC WET TYPE SPRINKLER SYSTEM.

PROTECTION CRITERIA FOR THE BUILDING SHALL BE BASED ON N.F.P.A. 13 LIGHT HAZARD FOR ALL GENERAL OCCUPIED SPACES AND ORDINARY GROUP 1 HAZARD FOR MECHANICAL ROOM AND RECEIVING AREA.

ALL SPRINKLERS PROVIDED ARE TO BE QUICK RESPONSE TYPE TO MAXIMUM EXTENT POSSIBLE.

THE SYSTEM SHALL BE SUPPLIED FROM A NEW 6" FIRE PROTECTION SERVICE WHICH IS CONNECTED TO THE EXISTING STREET WATER MAIN SERVING THE BUILDING.

THE SYSTEM IS MONITORED IN ACCORDANCE WITH N.F.P.A. 13 REQUIREMENTS AND INCLUDES A WET ALARM VALVE, FLOW SWITCHES AND TAMPER SWITCHES AND ISOLATION VALVES AT EACH FLOOR LEVEL. THE SPRINKLER SYSTEM SHALL BE PROVIDED WITH A NEW INSPECTORS TEST VALVE CONNECTION AS REQUIRED.

UPON CLOSURE OF ANY MAIN VALVE OR SYSTEM ISOLATION VALVE, A LOCAL BUILDING ALARM WILL SOUND TO ANNOUNCE TROUBLE IN THE SYSTEM.

UPON ACTIVATING OF A SPRINKLER HEAD OR HEADS, WATER WILL FLOW THROUGH THE SYSTEM, FIRST ACTIVATING THE MAIN FLOW SWITCH, WHICH WILL SEND AN ALARM SIGNAL TO THE MAIN FIRE ALARM PANEL, WHICH WILL SEND AN ALARM SIGNAL TO THE ANNUNCIATION PANEL.

TESTING SHALL BE ACCOMPLISHED AFTER ALL SPRINKLER WORK IS COMPLETED BY TESTING THE ENTIRE SPRINKLER SYSTEM TO A STATIC PRESSURE OF 200 PSI FOR A PERIOD OF 2 HOURS.

COORDINATE LOCATION OF EXTERIOR INSPECTORS TEST CONNECTION WITH ARCHITECT AND AUTHORITY HAVING JURISDICTION.

WATER FLOOR TEST INFORMATION

STATIC PRESSURE	58 PSI
RESIDUAL PRESSURE	UNAVAILABLE
FLOW	1074 GPM
DATE	7/20/94
LOCATION	STEVENS AVE
SOURCE	PORTLAND WATER DISTRICT

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PORTLAND, MAINE
PATIENT CARE CENTER
EXTERIOR SHELL

LEGEND AND SCHEDULES

Project Number	12502
Date	May 11, 2012
Drawn by	CCSV
Checked by	SPQ

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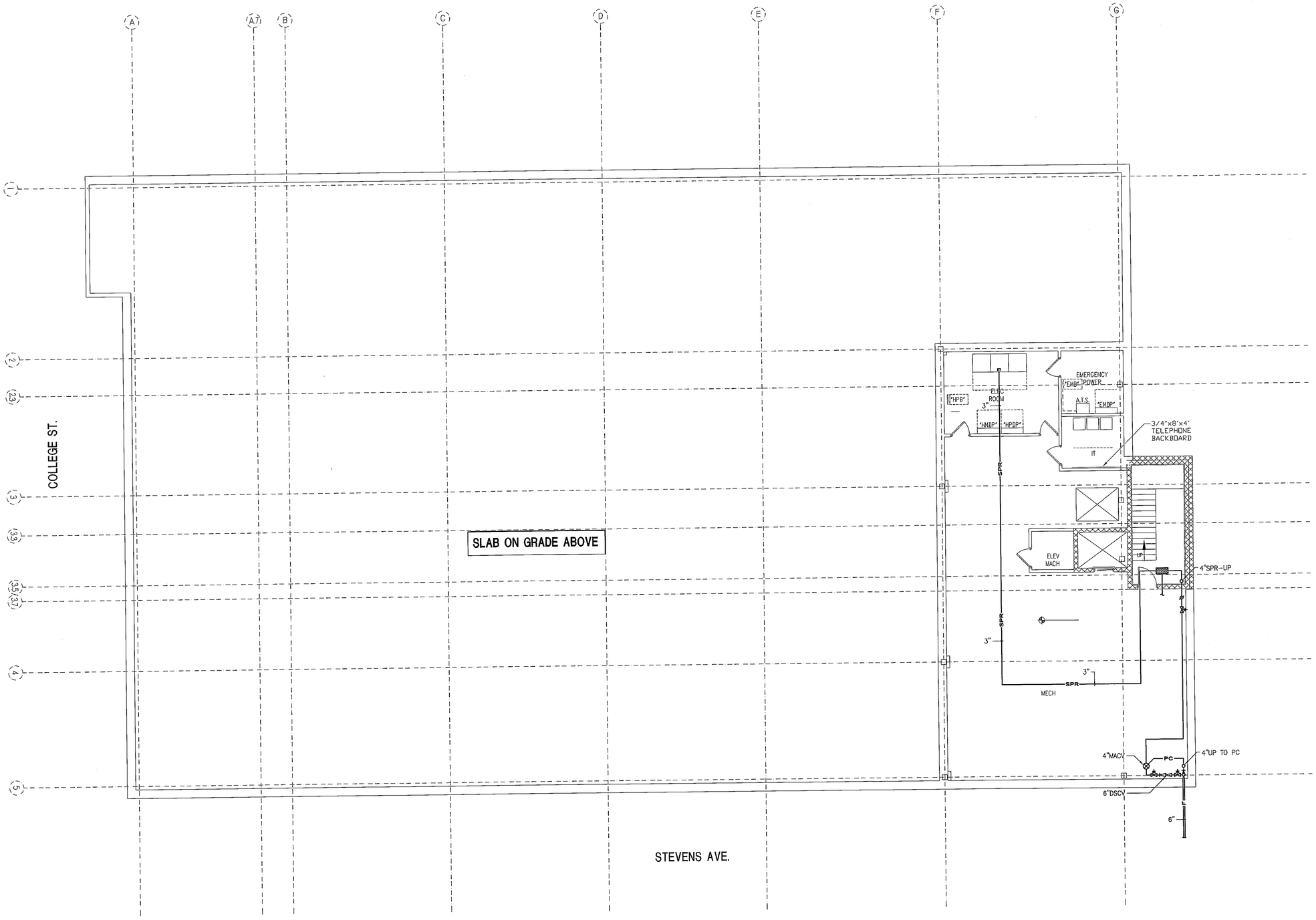

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EXTERIOR SHELL

BASEMENT FLOOR PLAN

Project Number	12502
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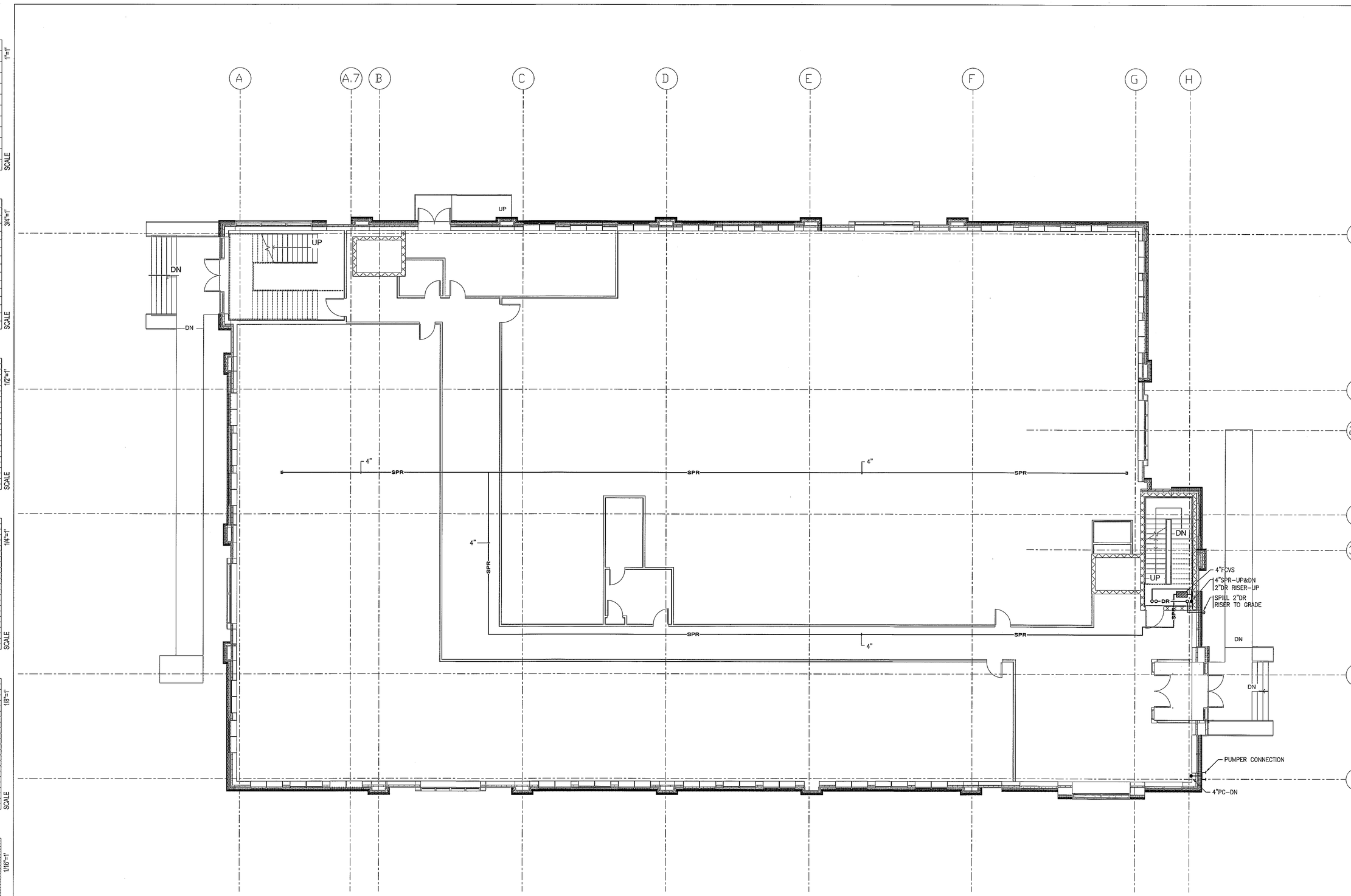

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EXTERIOR SHELL

FIRST FLOOR PLAN

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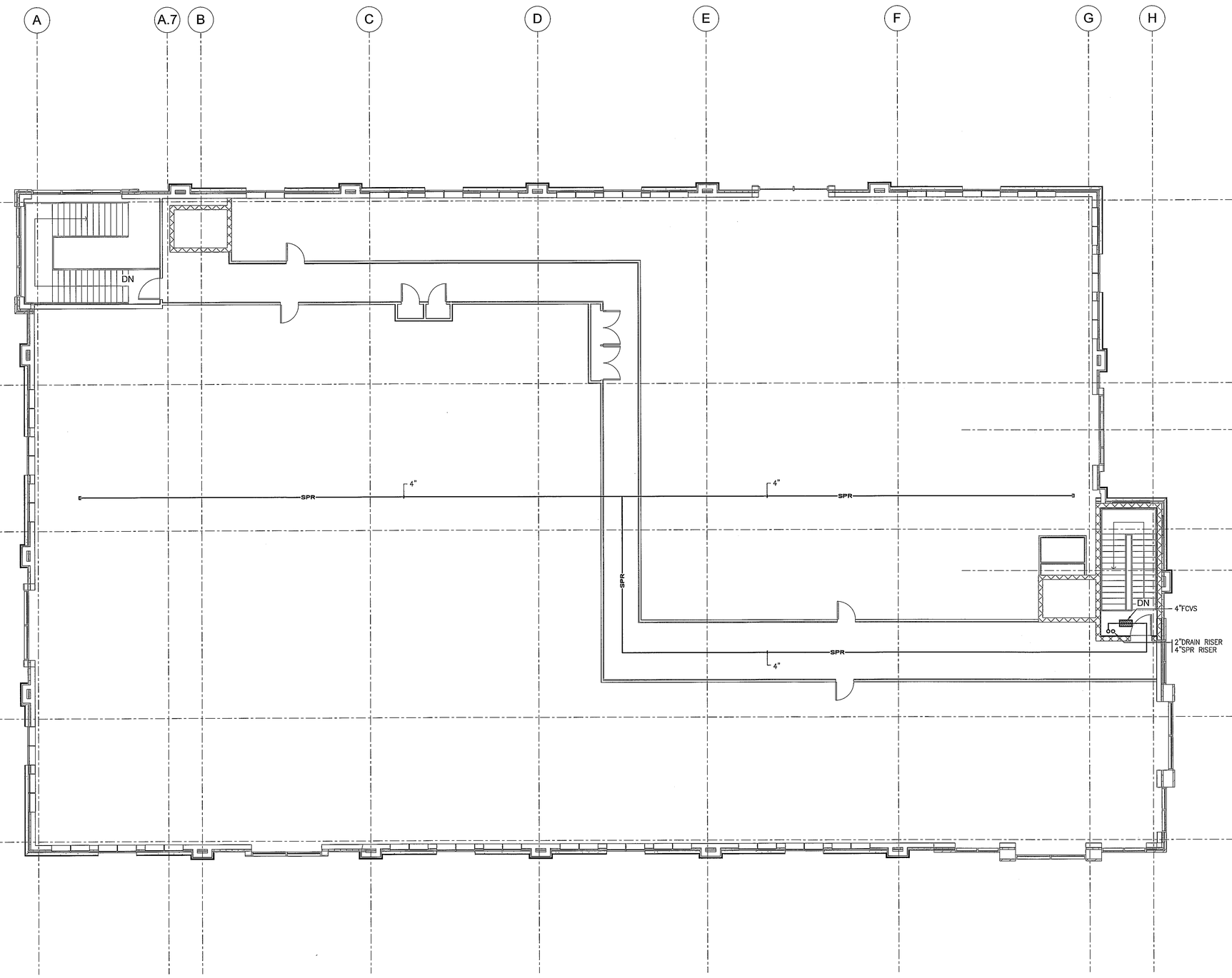

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EXTERIOR SHELL

SECOND FLOOR PLAN

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FIRE PROTECTION SPECIFICATIONS

SECTION 15300 – FIRE PROTECTION

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.02 WORK INCLUDED

A. CODE COMPLIANCE, RESEARCH, DESIGN, COORDINATION, AND INSTALLATION OF A COMPLETE AND FUNCTIONAL HYDRAULICALLY CALCULATED SPRINKLER SYSTEM AND COMBINED RISER STANDPIPE SYSTEM THAT MEETS THE APPROVAL, AND IS IN ACCORDANCE WITH THE REQUIREMENTS OF FACTORY MUTUAL (FM), NFPA 101– LIFE SAFETY CODE, OWNER STANDARDS, NFPA FIRE PROTECTION STANDARDS, UNDERWRITERS LABORATORY (UL), LOCAL AND STATE REGULATION, AND THESE SPECIFICATIONS.

B. THIS IS A PERFORMANCE SPECIFICATION. IT REQUIRES PERFORMANCE OF DESIGN WORK, PREPARATION AND SUBMISSION OF DRAWINGS, PROCUREMENT OF APPROVALS, AND PROVISION OF COMPLETE FUNCTIONAL SYSTEM OF AUTOMATIC SPRINKLERS AND/OR STANDPIPES. AS A RESULT, THIS SECTION SERVES DUAL PURPOSE OF PROVIDING SPECIFICATIONS AND INDICATING DESIGN CRITERIA FOR CONTRACTOR'S USE AND GUIDANCE IN DESIGNING SYSTEMS AND PREPARING SPRINKLER DRAWINGS FOR APPROVAL.

C. SHOP DRAWINGS AND CALCULATIONS PREPARED AND SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT AND THE OWNER'S INSURANCE UNDERWRITER.

D. PERMITS AND APPROVALS OF THE FIRE PROTECTION SYSTEM.

E. FIELD ACCEPTANCE TESTING AND CERTIFICATION.

F. COORDINATION DRAWINGS.

G. SUBMITTAL DRAWINGS AND WORKING PLANS SHALL BE PREPARED UTILIZING A COMPUTER GENERATED SYSTEM COMPATIBLE WITH OWNERS' AUTOCAD DRAWING SYSTEM.

H. AS-BUILTS AT COMPLETION OF PROJECT.

1.03 RELATED SECTIONS

A. EXAMINE DRAWINGS AND CRITERIA SHEETS AND OTHER SECTIONS OF THE SPECIFICATIONS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING FOR REQUIREMENTS WHICH AFFECT WORK UNDER THIS SECTION WHETHER OR NOT SUCH WORK IS SPECIFICALLY MENTIONED IN THIS SECTION. COORDINATE ALL WORK WITH THAT OF ALL OTHER TRADES AFFECTING OR AFFECTED BY WORK IN THIS SECTION.
1. ELECTRICAL
2. HVAC

1.04 REFERENCES

A. APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND TRADE STANDARD PUBLICATIONS SHALL APPLY TO THE WORK OF THIS SECTION, AND ARE HEREBY INCORPORATED INTO, AND MADE A PART OF THE CONTRACT DOCUMENTS.

B. MATERIAL STANDARDS SHALL BE AS SPECIFIED OR DETAILED HEREINAFTER AND AS FOLLOWS:
1. NFPA STANDARDS NOS. 13 AND NFPA 101, LIFE SAFETY CODE.
2. FACTORY MUTUAL
3. UNDERWRITERS' LABORATORIES.
4. STATE BUILDING CODE
5. STATE FIRE MARSHAL
6. OWNER STANDARDS

1.05 SUBMITTALS

A. REFER TO GENERAL CONDITIONS FOR ADDITIONAL REQUIREMENTS.

B. SUBMITTALS – THE FOLLOWING DOCUMENTS SHALL BE PROVIDED:
1. COMPLETE HYDRAULIC CALCULATIONS AND WORKING PLANS IN ACCORDANCE WITH NFPA-13.
2. COMPLETE STAMPED AND COORDINATED SHOP DRAWINGS
3. PIPE AND FITTINGS
4. SPRINKLER HEADS
5. ESCUTCHEONS
6. HANGERS AND SEISMIC RESTRAINTS

C. SUBMITTALS DATA SHALL BE IN BOUND SETS AND BE SUBMITTED AT ONE TIME. TRANSMIT TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL.

D. DO NOT PROCEED WITH ANY WORK WITHOUT FINAL APPROVED SUBMITTAL DATA BEARING APPROVAL STAMPS, INCLUDING THE OWNER'S REPRESENTATIVE AND THE LOCAL OR STATE FIRE MARSHAL.

E. BE RESPONSIBLE FOR ANY DELAYS CAUSED BY NOT FOLLOWING THE ABOVE PROCEDURE AND/OR NOT COMPLETING THE DESIGN PORTION OF THE WORK IN A TIMELY MANNER.

1.06 DESIGN CRITERIA

A. THE HYDRAULIC CALCULATIONS SHALL INCLUDE THE HYDRAULICALLY MOST REMOTE AREA. HYDRAULIC CALCULATIONS SHALL SHOW THE REMOTE AREAS BEING SUPPLIED SOLELY FROM THE HYDRAULICALLY MOST REMOTE COMBINATION RISER.

B. VELOCITY SHALL NOT EXCEED 20 FPS.

C. ALL CALCULATIONS SHALL ASSUME 10 PSI DETERIORATION IN STATIC AND REGIONAL PRESSURES IN THE HYDRANT FLOW TEST RESULTS.

D. REFER TO PLANS FOR DESIGN CRITERIA.

1.07 WORKING PLANS

A. PREPARE WORKING PLANS ACCORDING TO THE REQUIREMENTS OF NFPA STANDARD 13. WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE PREPARED BY A NICET-CERTIFIED LEVEL III OR IV AUTOMATIC SPRINKLER SYSTEM ENGINEERING TECHNICIAN AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN MAINE. WORKING PLANS SHALL BE PROVIDED IN ADDITION TO THE REQUIREMENTS FOR COORDINATION DRAWINGS. COORDINATION DRAWINGS WILL NOT BE ACCEPTED IN LIEU OF WORKING PLANS.

B. DEVIATION FROM THE APPROVED PLANS WILL REQUIRE RE-APPROVAL BY THE REVIEWING AUTHORITIES.

C. SUBMIT WORKING PLANS AND HYDRAULIC CALCULATIONS TO THE OWNER'S REPRESENTATIVE. PLANS SUBMITTED WITHOUT REVIEW STAMPS OR HYDRAULIC CALCULATIONS WILL BE RETURNED WITHOUT REVIEW. HYDRAULIC CALCULATIONS SUBMITTED WITHOUT WORKING PLANS WILL BE RETURNED WITHOUT REVIEW.

D. SUBMITTAL DRAWINGS AND WORKING PLANS SHALL BE PREPARED UTILIZING A COMPUTER GENERATED SYSTEM.

PART 2 – PRODUCTS

2.01 ACCEPTABLE PRODUCTS

A. MATERIALS AND EQUIPMENT PROVIDED UNDER THIS SECTION TO MAKE A COMPLETE INSTALLATION SHALL BE U.L. LISTED AND/OR FM-APPROVED AND IN COMPLIANCE WITH NFPA STANDARDS.

2.02 PIPING, FITTINGS, AND JOINTS

A. PIPING SHALL MEET APPLICABLE ANSI OR ASTM STANDARDS REQUIREMENTS AND SHALL HAVE MANUFACTURER'S NAME AND STANDARD MARKED ON EACH LENGTH. JOINTS SHALL MEET APPLICABLE ANSI AND ASTM STANDARDS REQUIREMENTS. WHERE ANSI AND ASTM STANDARD DOES NOT EXIST, JOINTS AND FITTINGS SHALL BEAR UL LISTING SYMBOL.

B. PIPING FOR SPRINKLER SYSTEMS AND STANDPIPE SYSTEMS 2-1/2" IN SIZE AND LARGER MAY BE SCHEDULE 10 BLACK STEEL CONFORMING TO ASTM 135. PIPING FOR SPRINKLERS 2" AND SMALLER IN SIZE SHALL BE SCHEDULE 40 BLACK STEEL CONFORMING TO ASTM A53.

C. PIPING FOR USE WITH HOLE-CUT FITTINGS SHALL HAVE MACHINE CUT HOLES PER MANUFACTURER REQUIREMENTS AT PREDETERMINED POSITIONS, ON THE CENTERLINE OF THE PIPE, OF A SIZE TO RECEIVE THE HOUSING LOCATING COLLAR. HOLE CUTTING MACHINE SHALL BE SUPPLIED BY THE FITTING MANUFACTURER.

D. PIPING FOR USE WITH GROOVED END FITTINGS SHALL BE ROLL GROOVED WITHOUT METAL REMOVAL OR AS PER MANUFACTURE REQUIREMENTS.

E. FITTINGS FOR GROOVED END STEEL PIPE SHALL BE CAST OF DUCTILE IRON CONFORMING TO ASTM A-536 OR FORGED STEEL CONFORMING TO ASTM A-234 (A-106, GR. B), WITH GROOVED OR SHOULDERED ENDS FOR DIRECT CONNECTION INTO GROOVED PIPING SYSTEMS WITH STEEL PIPE AND SHALL BE UL LISTED AND FMG APPROVED, RATED FOR A MINIMUM 300 PSI MAXIMUM WORKING PRESSURE (MWP) AND SHALL BE OF ONE MANUFACTURE VICTAULIC, GRUVLOK OR CENTRAL.

F. BRANCH OUTLET FITTINGS SHALL BE UL LISTED AND FMG APPROVED, AND RATED FOR 500 PSI (MWP) ON PIPING 3" AND LARGER, AND 300 PSI (MWP) ON PIPING UNDER 3" IN SIZE AND SHALL BE OF ONE MANUFACTURE VICTAULIC, GRUVLOK OR CENTRAL:
1. MECHANICAL TEE BRANCH, HOLE-CUT TYPE CONNECTIONS, WITH LOCATING COLLAR ENGAGING INTO HOLE, WITH STANDARD PRESSURE RESPONSIVE GASKETS AND BLACK NUTS AND BOLTS SIMILAR TO VICTAULIC STYLE 920/920N OR
2. OUTLET COUPLINGS, CONSTRUCTION AS HEREINAFTER SPECIFIED FOR COUPLINGS, WITH OUTLETS GROOVED OR THREADED OUTLET ENDS WITH STANDARD PRESSURE RESPONSIVE GASKETS AND BLACK BOLTS AND NUTS SIMILAR TO VICTAULIC STYLE 72.
3. NO STRAP, SNAP AND OR ONE BOLT OUTLET FITTINGS WILL BE PERMITTED.

G. STANDARD BLACK CAST IRON SCREWED FITTINGS SHALL BE USED ON PIPING 2" AND SMALLER AND MAY BE USED ON LARGER SIZES.

H. ALL GROOVED COUPLINGS, FITTINGS AND MECHANICAL TEE BRANCH FITTINGS SHALL BE VICTAULIC, GRUVLOK OR CENTRAL.

I. ALL PIPE, FITTINGS, VALVES, DEVICES AND ASSOCIATED APPURTENANCES SHALL BE RATED FOR PRESSURES THAT MAY BE DEVELOPED.

J. BUSHINGS SHALL NOT BE PERMITTED WHERE FITTINGS OF REQUIRED SIZES ARE MANUFACTURED. CARE SHALL BE TAKEN IN THE DESIGN OF THIS WORK TO AVOID PIPING ARRANGEMENTS THAT WOULD REQUIRE BUSHINGS.

K. UNLESS SPECIFIED OTHERWISE HEREIN, ALL FITTINGS SHALL BE IN ACCORDANCE WITH NFPA STANDARDS AND SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER. ALL FITTINGS ARE TO BE UL LISTED AND FMG APPROVED.

L. ALL CLOSE AND SHOULDER NIPPLES SHALL BE OF CORRESPONDING MATERIALS AS THE PIPE AND SHALL BE EXTRA HEAVY PATTERN.

2.03 SPRINKLER HEADS

A. ALL SPRINKLER HEADS SHALL BE LISTED BY U.L. AND APPROVED BY FMG. ALL SPRINKLERS SHALL BE OF SINGLE MANUFACTURER. HEADS SHALL BE AS MANUFACTURED BY RELIABLE.

B. SPRINKLER HEADS SHALL BE FURNISHED AND INSTALLED TO CONFORM WITH MANUFACTURER'S LISTING.

C. ALL SPRINKLERS SHALL BE COORDINATED WITH A FINAL REFLECTED CEILING PLAN TO ARRIVE AT A SUITABLE PATTERN CONSISTENT WITH PROPER SPRINKLER PROTECTION.

D. SPRINKLERS SHALL BE LOCATED IN CENTER OF TILES.

E. SPARE HEADS: PROVIDE 20-GAUGE STEEL SPRINKLER HEAD CABINETS WITH RED ENAMEL FINISH. FURNISH THE QUANTITIES OF SPARE SPRINKLER HEADS FOR EACH TYPE INSTALLED AS REQUIRED BY NFPA STANDARD 13. FURNISH SPRINKLER WRENCH FOR EACH HEAD TYPE INSTALLED. MOUNT IN MECHANICAL ROOM OR FIRE PUMP ROOM.

2.04 PIPE HANGERS AND SUPPORTS

A. ACCEPTABLE PRODUCTS: HANGER MATERIALS SHALL MATCH PIPING MATERIAL AS REQUIRED FOR DIELECTRIC ISOLATION. ALL SUPPORT SYSTEMS SHALL BE UL LISTED AND FMG APPROVED AND SHALL MEET ASTM B633, SC1 AND SC3.

B. SUPPORT ALL PIPING INCLUDED IN THE WORK OF THIS SECTION WITH HANGERS AND RODS ATTACHED TO THE BUILDING STRUCTURE. HANG PIPING IN COMPLIANCE WITH NFPA STANDARDS AND THE REQUIREMENTS OF THIS SECTION. ATTACH BEAM CLAMPS BEFORE APPLICATION OF SPRAY FIRE-PROOFING.

C. PIPING 2-1/2" AND SMALLER: CARBON STEEL, ADJUSTABLE SWIVEL.

D. PIPING 3" AND LARGER: CARBON STEEL, ADJUSTABLE, CLEVIS.

E. HANGER ATTACHMENTS
1. BEAM CLAMPS: CARBON STEEL HANGER WITH LOCK NUT AND RETAINING STRAP OR APPROVED EQUAL.
2. EXPANSION SHIELDS: HILTI HDI OR APPROVED EQUAL.
3. INSERTS: MALLEABLE IRON CASE OF GALVANIZED STEEL SHELL AND EXPANDER PLUG FOR THREADED CONNECTION WITH LATERAL ADJUSTMENT, TOP SLOT FOR REINFORCING RODS, LUGS FOR ATTACHING TO FORMS; SIZE INSERTS TO SUIT THREADED HANGER RODS. HILTI HKD OR APPROVED EQUAL.

F. SPACE HANGERS AND SUPPORTS FOR HORIZONTAL STEEL SPRINKLER PIPING ACCORDING TO THE FOLLOWING SCHEDULE:

PIPE SIZE:	MAXIMUM HANGER SPACING:
1. 1-1/4" AND SMALLER	8'-0"
2. 1-1/2" TO 3"	10'-0"

G. HANGER RODS: MILD STEEL THREADED BOTH ENDS, THREADED ONE END, OR CONTINUOUS THREADED. PROVIDE HANGER RODS SIZED ACCORDING TO THE FOLLOWING SCHEDULE:

PIPE SIZE:	MINIMUM ROD DIAMETER:
1. 4" AND SMALLER	3/8"

H. HANG STANDPIPE AND SPRINKLER PIPING TO SUPPORT THE WEIGHT OF THE WATER FILLED PIPE PLUS 250 POUNDS AT THE HANGER.

I. HANG HORIZONTAL FIRE LINE PIPING TO SUPPORT THE WEIGHT OF FIVE TIMES THE WEIGHT OF THE WATER FILLED PIPE PLUS 250 POUNDS AT THE HANGER.

J. PROVIDE STEEL ANGLE SUPPORTS ATTACHED TO THE BUILDING STRUCTURE TO SUPPORT PIPING BELOW DUCTWORK.

K. RISER CLAMPS: CARBON STEEL RISER CLAMP, BLACK OR GALVANIZED FINISH.

L. FLOOR SUPPORTS: SCHEDULE 40 BLACK STEEL ADJUSTABLE PIPE SADDLE, LOCK NUT, NIPPLE, FLOOR FLANGE, AND CONCRETE PIER OR STEEL SUPPORT.

M. ALL VERTICAL DROPS AND RUN-OUT PIPES SHALL BE SUPPORTED BY SPLIT RING EXTENSION TYPE HANGERS.

2.05 PIPE SLEEVES, PLATES AND ESCUTCHEONS, FIRESTOPPING AND SMOKEPROOFING

A. WHERE PIPES PASS THROUGH ALL WALLS OR FLOORS, THE FIRE PROTECTION SUBCONTRACTOR SHALL PROVIDE AND SET INDIVIDUAL SLEEVES FOR EACH PIPE AND ALL OTHER WORK UNDER HIS CHARGE. SLEEVES SHALL BE OF SUFFICIENT SIZE TO PROVIDE 2" MINIMUM AIR SPACE AROUND THE PIPE, OR INSULATION ON COVERED LINES PASSING THROUGH IT. ALL OPENINGS SHALL BE SEALED, SMOKEPROOFED AND MADE TIGHT AS OUTLINED IN ITEMS BELOW. THIS SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT LOCATION OF SLEEVES PROVIDED UNDER THIS CONTRACT AND SHALL COORDINATE ALL REQUIREMENTS FOR PIPING SLEEVES. IN THE EVENT THAT FAILURE TO DO SO REQUIRES CUTTING AND PATCHING, IT SHALL BE DONE AT THIS SUBCONTRACTOR'S EXPENSE.

B. THIS CONTRACTOR, FOR WORK UNDER HIS CHARGE, SHALL DETERMINE THE DIAMETER OF EACH INDIVIDUAL WALL OPENING OR SLEEVE BEFORE ORDERING, FABRICATING OR INSTALLING.

C. SLEEVES PASSING THROUGH LIGHTPROOF OR SOUNDPROOF WALLS AND FLOORS AND THROUGH FIREWALLS SHALL BE SEALED AND MADE TIGHT USING ONLY APPROVED MATERIALS AND METHODS.

D. SLEEVES AND WALL OPENINGS SHALL NOT BE USED IN ANY PORTIONS OF THE BUILDING WHERE THEIR USE WOULD IMPAIR THE STRENGTH OR CONSTRUCTION FEATURES OF THE BUILDING. THIS CONTRACTOR SHALL IMMEDIATELY BRING TO THE ARCHITECT'S ATTENTION ANY SITUATION WHICH MAY PROMOTE THIS CONDITION.

E. PROVIDE CHROME PLATED BRASS ESCUTCHEONS WITH SET SCREW FOR EXPOSED PIPING IN ALL AREAS. IN MECHANICAL ROOMS USE PLAIN BRASS OR CAST IRON ESCUTCHEONS SUITABLE FOR PAINTING. ALL ESCUTCHEONS SHALL BE SIZED TO FIT THE BARE PIPE OR INSULATION IN A SNUG AND NEAT MANNER. THEY SHALL BE OF SUFFICIENT SIZE TO COVER SLEEVED OPENINGS FOR THE PIPES AND OF SUFFICIENT DEPTH TO COVER SLEEVES PROJECTING ABOVE FLOORS. ESCUTCHEONS SHALL BE AS MANUFACTURED BY BEATON & CALDWELL, DEARBORN BRASS, OR GRINNELL. ALL ESCUTCHEONS SHALL BE OF 1-PIECE CONSTRUCTION.

F. PIPE SLEEVES SHALL BE MADE OF GALVANIZED SCHEDULE 40 PIPE, 20 GAUGE GALVANIZED STEEL OR 16 GAUGE GALVANIZED STEEL AS FOLLOWS:
1. SLEEVES PASSING THROUGH FIRE OR SMOKE RATED DRYWALL CONSTRUCTION SHALL BE 16 GAUGE GALVANIZED STEEL.
2. SLEEVES PASSING THROUGH MASONRY OR CONCRETE CONSTRUCTION SHALL BE SCHEDULE 40 PIPE.
3. SLEEVES THROUGH NON-FIRE OR SMOKE RATED DRYWALL CONSTRUCTION SHALL BE 20 GAUGE GALVANIZED STEEL.

G. SLEEVES SHALL BE SET AS FOLLOWS:
1. SET SLEEVES TO BE FLUSH WITH EACH SIDE OF FINISHED WALL.

H. THIS CONTRACTOR SHALL FIRESTOP AND/OR SMOKESTOP THE SPACE BETWEEN THE SLEEVES PROVIDED UNDER THIS CONTRACT AS FOLLOWS:
1. THROUGH-PENETRATION FIRESTOPPING IN FIRE RATED CONSTRUCTION
   a. SYSTEMS OR DEVICES LISTED IN THE UL CATEGORIES XHCR AND HXEL MAY BE USED, PROVIDING THAT THEY CONFORM TO THE CONSTRUCTION TYPE, PENETRANT TYPE, ANNULAR SPACE REQUIREMENTS AND FIRE RATING INVOLVED IN EACH SEPARATE INSTANCE, AND THAT THE SYSTEM BE SYMMETRICAL FOR WALL APPLICATIONS. SYSTEMS OR DEVICES MUST BE ASBESTOS-FREE.
   b. ADDITIONAL REQUIREMENTS: SYSTEMS MUST WITHSTAND THE PASSAGE OF COLD SMOKE EITHER AS AN INHERENT PROPERTY OF THE SYSTEM, OR BY THE USE OF A SEPARATE PRODUCT INCLUDED AS A PART OF THE UL SYSTEM OR DEVICE.
   c. ACCEPTABLE MANUFACTURERS AND PRODUCTS
      1) THOSE LISTED IN THE UL FIRE RESISTANCE DIRECTORY FOR THE UL SYSTEM INVOLVED, INCLUDING 3M, DOW CORNING, BIOFIRE SHIELD OR APPROVED EQUAL.
      2) ALL PRODUCTS MUST BE FROM A SINGLE MANUFACTURER.
2. SMOKESTOPPING AT SMOKE PARTITIONS
   a. ANY SYSTEM COMPLYING WITH THE REQUIREMENTS FOR THROUGH PENETRATION FIRESTOPPING IN FIRE RATED CONSTRUCTION, AS SPECIFIED IN ITEM H1, IS ACCEPTABLE, PROVIDED THAT THE SYSTEM PROVIDES THE REQUIRED SMOKE SEAL.
3. ACCESSORIES
   a. FILL, VOID OR CAVITY MATERIALS: AS CLASSIFIED UNDER THE UL CATEGORY XHHW.
   b. FORMING MATERIALS: AS CLASSIFIED UNDER UL CATEGORY XHKU IN THE FIRE RESISTANCE DIRECTORY.
4. THE MATERIALS, INSTALLATION PROCEDURES, CLEAN-UP, SAFETY PRECAUTIONS AND REQUIREMENTS SHALL BE IN ACCORDANCE WITH MANUFACTURERS PUBLISHED INFORMATION.

2.06 EARTHQUAKE PROTECTION AND SEISMIC RESTRAINTS

A. THE FIRE PROTECTION SUBCONTRACTOR SHALL PROVIDE ALL NECESSARY DESIGN AND MATERIALS FOR SEISMIC RESTRAINT AND PROTECTION OF PIPING AND DEVICES AGAINST DAMAGE WHERE SUBJECT TO EARTHQUAKE AS REQUIRED FOR THE ENTIRE FIRE PROTECTION SYSTEM WITHIN THE BUILDING. ALL ISOLATION AND SEISMIC DEVICES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. PRODUCTS OF OTHER MANUFACTURERS ARE ACCEPTABLE PROVIDED THEIR SYSTEMS STRICTLY COMPLY WITH THIS SECTION OF THE SPECIFICATIONS. PROVIDE ISOLATION MATERIALS AND SEISMIC RESTRAINTS COMPLETE AND AS MANUFACTURED BY MASON INDUSTRIES, TOLCO OR APPROVED EQUAL.
1. THE WORK UNDER THIS SECTION SHALL INCLUDE THE DESIGN, FURNISHING AND INSTALLATION OF ALL RESTRAINT DEVICES AND SYSTEMS AS MAY BE REQUIRED FOR THE FIRE PROTECTION SYSTEM INCLUDING, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING:
2. ALL FIRE PROTECTION SYSTEM PIPING AS REQUIRED.
3. PIPING PENETRATIONS THROUGH FLOORS AND WALLS.
4. SLEEVES WITH CLEARANCES AROUND THE OUTSIDE, AS RECOMMENDED.
5. CERTIFICATION OF SEISMIC RESTRAINT DESIGNS.
6. SIX (6) ELBOW SWING JOINTS AT ALL BUILDING SEISMIC SEPARATIONS AS REQUIRED BY NFPA #13.

A. SUBMIT TEN (10) COPIES OF DESCRIPTIVE DATA FOR ALL PRODUCTS AND MATERIALS, INCLUDING THE FOLLOWING:
1. CATALOG CUTS AND DATA SHEETS FOR THE SPECIFIC ISOLATORS, RESTRAINS AND ALL OTHER ITEMS TO BE UTILIZED.
2. DETAILS OF METHODS OF SLEEVING, FIRE PROTECTION, SMOKEPROOFING AND ISOLATION FOR PIPES PENETRATING WALLS AND SLABS.
3. SPECIFIC DETAILS OF SEISMIC RESTRAINTS AND ANCHORS, INCLUDING NUMBER, SIZE AND LOCATIONS FOR EACH PIECE OF EQUIPMENT.
4. CALCULATIONS TO SUPPORT SEISMIC RESTRAINT DESIGNS.
5. ALL CALCULATIONS, DETAILS AND OTHER SUBMITTAL MATERIALS SHALL BE SEALED AND SIGNED BY A STRUCTURAL OR CIVIL ENGINEER REGISTERED IN THE STATE AND QUALIFIED TO PERFORM SEISMIC DESIGN CALCULATIONS.
6. A SEISMIC DESIGN LIABILITY INSURANCE CERTIFICATE THAT MUST ACCOMPANY ALL SUBMITTALS.

C. CODE AND STANDARD REQUIREMENTS SHALL INCLUDE, BUT NOT BE LIMITED TO:
1. APPLICABLE BOCA-NBC WITH ANY ADDITIONAL STATE OR LOCAL REQUIREMENTS.
2. NFPA 13
3. ALL STATE AND LOCAL CODES.

D. MANUFACTURERS WORKING IN THIS SECTION MUST PROVIDE A SEISMIC DESIGN LIABILITY INSURANCE CERTIFICATE AND CERTIFY THEIR ABILITY TO PROVIDE ENGINEERING AND DESIGN AS REQUIRED BY THIS SECTION. THIS CERTIFICATE SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO ANY SUBMITTALS.

PART 3 – EXECUTION

3.01 HYDRAULICALLY CALCULATED SPRINKLER SYSTEM

A. THE CONTRACTOR SHALL PROVIDE A HYDRAULICALLY DESIGNED SYSTEM IN COMPLETE ACCORDANCE WITH AND AS DEFINED IN APPLICABLE NATIONAL FIRE PROTECTION STANDARDS.

B. VERIFICATION OF HYDRAULIC INFORMATION
1. THE FIRE PROTECTION CONTRACTOR MUST OBTAIN CURRENT FLOW TEST RESULTS OR PERFORM FLOW TEST IN ACCORDANCE WITH NFPA 20.

C. ACCOMPANYING SPRINKLER SHOP DRAWINGS SUBMITTED TO THE ARCHITECT SHALL BEAR ALL SPRINKLER SYSTEM REQUIREMENTS, WATER SUPPLY DATA, GRAPH AND WORK SHEETS ALL AS DEFINED BY NFPA. THE HYDRAULIC GRAPH SHALL INCLUDE THE FOLLOWING INFORMATION:
1. HYDRANT FLOW TEST CURVE.
2. ADJUST FLOW TEST FOR FRICTION AND ELEVATION AT NEW WET TAP CONNECTION.
3. SYSTEM FRICTION LOSS CURVE FOR SPRINKLER SYSTEM WITH INSIDE HOSE STREAM.
4. AVAILABLE OUTSIDE HOSE STREAM FLOW.
5. FIRE PUMP DISCHARGE CURVE.

D. ALL CALCULATIONS SHALL ASSUME A 10 PSI DETERIORATION IN STATIC AND RESIDUAL PRESSURES IN THE HYDRANT FLOW TEST RESULTS.

E. VELOCITY SHALL NOT EXCEED 20 FPS.

F. IN ADDITION TO THE ABOVE NOTED REQUIREMENTS, THE HYDRAULIC CALCULATIONS SHALL INCLUDE:
1. THE HYDRAULICALLY MOST REMOTE AREA FOR EACH HAZARD CLASSIFICATION/DENSITY REQUIREMENTS AS NOTED ON THE CONTRACT DOCUMENTS.
2. IF COMBINATION RISERS ARE SHOWN INTERCONNECTED WITH SPRINKLER PIPING, HYDRAULIC CALCULATIONS SHALL SHOW THE REMOTE AREA BEING SUPPLIED SOLELY FROM THE HYDRAULICALLY MOST REMOTE COMBINATION RISER.
3. ADDITIONAL HYDRAULIC CALCULATIONS SHALL BE SUBMITTED, WHEN REQUESTED, WHICH DEMONSTRATE THAT THE CONTRACTOR'S SELECTED REMOTE AREAS ARE INDEED THE HYDRAULICALLY MOST DEMANDING AS WELL AS REMOTE.
4. IF NEW WORK IS TO BE CONNECTED TO EXISTING PIPING THE FIRE PROTECTION CONTRACTOR SHALL VERIFY THAT THE EXISTING PIPING CAN SUPPORT DEMANDS GENERATED BY THE HYDRAULIC CALCULATIONS.

3.02 SHUTDOWNS

A. THE CONTRACTOR SHALL WORK WITH THE OWNER IN MAINTAINING INTEGRITY OF ALL FIRE PROTECTION SYSTEMS IN ADJACENT BUILDINGS AS WELL AS AREAS OUTSIDE OF THIS CONTRACT. COORDINATE AND MINIMIZE ANY AND ALL SHUTDOWNS OF THE FIRE PROTECTION SYSTEM AS FOLLOWS:
1. GIVE PROPER NOTICE TO OWNER WHEN MAKING SHUTDOWNS AND PAY ANY FEES REQUIRED.
2. PERFORM ANY DUTIES REQUIRED BY OWNER WHEN MAKING A SHUT DOWN.
3. FILL OUT A SHUTDOWN NOTICE FORM ANSWERING ALL ITEMS REQUEST SUCH AS TIME AND LOCATION OF SHUTDOWN, SYSTEMS AFFECTED, AREAS AFFECTED, ETC. WHEN REQUESTING A SHUTDOWN.
4. PROVIDE FIRE WATCH AS REQUIRED DURING A SHUTDOWN.
5. DURATION OF SHUTDOWNS SHALL BE KEPT TO A MINIMUM.
6. IN NO CASE SHALL THE FIRE PROTECTION SYSTEM BE SHUT DOWN DURING OFF HOURS OF WORK DAY WITHOUT A FIRE WATCH.
7. SYSTEM SHALL BE RETURNED TO NORMAL OPERATING CONDITIONS AT END OF WORK DAY.

3.03 CONNECTIONS TO EXISTING SYSTEMS

A. MODIFY THE SYSTEM AS REQUIRED. REMOVE EXISTING SPRINKLER MAINS AND BRANCHES TO ACCOMMODATE NEW PIPING AND OFFSETS TO PIPING AND ADDITIONAL HEADS. THE SPRINKLER SYSTEM SHALL BE FED FROM THE EXISTING RISER OR MAIN AS INDICATED ON THE PLANS.

B. THIS CONTRACTOR SHALL PAY ALL COSTS ASSOCIATED WITH ALARM SHUTDOWNS OF EXISTING SYSTEMS NECESSARY FOR NEW CONNECTIONS.

C. REFER TO "SHUTDOWNS" SECTION OF THIS SPECIFICATION.

D. EXISTING VALVES, FLOW SWITCHES AND TAMPER SWITCHES SHALL REMAIN, BUT SHALL BE CHECKED FOR PROPER OPERATION AND CONDITION AND SHALL BE PROTECTED BY THE CONTRACTOR. DAMAGE TO THESE ITEMS OCCURRING AFTER CHECKING FOR PROPER OPERATION AND CONDITION SHALL BE MADE GOOD BY THE CONTRACTOR AT HIS OWN EXPENSE WITH NEW IDENTICAL MATERIALS. PROVIDE TEMPORARY CAPS AS REQUIRED DURING SYSTEM MODIFICATION TO MAINTAIN SPRINKLER PROTECTION.

3.04 AS BUILTS

A. THE FIRE PROTECTION SUBCONTRACTOR SHALL MAINTAIN CURRENT AT THE SITE A SET OF HIS DRAWINGS ON WHICH HE SHALL ACCURATELY SHOW THE ACTUAL INSTALLATION OF ALL WORK PROVIDED UNDER HIS CONTRACT INDICATING ANY VARIATION FROM THE CONTRACT DRAWINGS, IN ACCORDANCE WITH THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS. CHANGES WHETHER RESULTING FROM FORMAL CHANGE ORDERS OR OTHER INSTRUCTIONS ISSUED BY THE ARCHITECT SHALL BE RECORDED. INCLUDE CHANGES IN SIZES, LOCATION AND DIMENSIONS OF PIPING, EQUIPMENT, ETC.

B. UTILIZING THE COORDINATION DRAWINGS DESCRIBED HEREIN BEFORE, THE FIRE PROTECTION SUBCONTRACTOR SHALL MODIFY/CORRECT/EDIT THE FIRE PROTECTION WORK ON THE ABOVE CAD COORDINATION DRAWINGS, TO OBTAIN A "CAD" SET OF RECORD DRAWINGS. PROVIDE (2) BLACKLINE PRINTS AND (2) COPIES OF RECORD DRAWINGS CAD FILES.

C. A MARKED-UP AND COLORED-UP SET OF PRINTS ON-SITE WILL BE USED AS A GUIDE FOR DETERMINING THE PROGRESS OF THE WORK INSTALLED. THEY SHALL BE INSPECTED PERIODICALLY BY THE ARCHITECT AND OWNER'S REPRESENTATIVES AND THEY SHALL BE CORRECTED IF FOUND EITHER INACCURATE OR INCOMPLETE. THIS PROCEDURE IS MANDATORY.

D. COORDINATION DRAWINGS ARE FOR THE CONTRACTOR'S, ARCHITECT'S, AND OWNER'S USE DURING CONSTRUCTION AND SHALL NOT BE CONSTRUED AS REPLACING ANY SHOP DRAWINGS. THE CAD COORDINATION DRAWINGS, WHEN CORRECTED FOR ACTUAL "AS-BUILT" CONDITIONS, WILL BE REVIEWED BY THE ARCHITECT, CORRECTED AND WILL BE USED TO FORMULATE THE RECORD DRAWINGS TO BE SUBMITTED TO THE OWNER FOR HIS USE.

E. THE FIRE PROTECTION SUBCONTRACTOR SHALL SUBMIT A SET OF CAD FILES ON DISC MARKED "AS-BUILTS". ALL COSTS ASSOCIATED WITH THE PRODUCTION AND REPRODUCTION OF THE CAD FILES SHALL BE INCLUDED UNDER THE FIRE PROTECTION BID FOR WORK UNDER THE FIRE PROTECTION CONTRACTS.

3.05 CLEANUP

A. AFTER COMPLETION OF THE WORK, ALL TOOLS AND OTHER EQUIPMENT SHALL BE REMOVED FROM THE BUILDING. ALL EXCESS MATERIALS SHALL BE REMOVED AND THE BUILDING LEFT BROOM CLEAN. ALL CABINETS, VALVES, AND EQUIPMENT SHALL BE CLEANED AND POLISHED.

B. THIS CONTRACTOR SHALL CLEAN, PATCH AND REPAIR ANY MATERIAL AND FINISH OF THE BUILDING OR ITS CONTENTS DAMAGED DURING THE EXECUTION OF THIS CONTRACT.

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REVISIONS

No.	Description	Date

PERMIT SET

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

SPECIFICATIONS

Project Number	12502
Date	May 11, 2012
Drawn by	CCSV
Checked by	SPQ

F2.00

Scale NTS

SCHEDULE OF FLOOR DRAIN

TYPE	LOCATION	MANUFACTURER	MODEL NO
FD	MECHANICAL	ZURN	1. Z-N-514-5B-P 2. PROVIDE TRAP PRIMER INSERT

SCHEDULE OF BACKFLOW PREVENTERS

DESIGNATION	LOCATION	MANUFACTURER	MODEL NUMBER	SIZE
BFP-1	MECHANICAL	WATTS	MODEL # 909 QTS-HW	4"

SEWAGE EJECTOR AND PUMP SCHEDULE

SYMBOL	NAME	GPM	HEAD TDH	ELECTRICAL				RPM	MANUFACTURER & MODEL	REMARKS
				V	PH	HZ	HP			
SE-1	SIMPLEX SEWAGE EJECTOR	40	20	208	3ø	60	3	1750	LIBERTY-LS9203M	-MECHANICAL ROOM -

PLUMBING LEGEND

SYMBOL	ABBR.	DESCRIPTION
	S or W	SOIL or WASTE PIPING
	S or W	SOIL or WASTE PIPING (BURIED)
	V	VENT PIPING
	V	VENT PIPING (UNDERGROUND/SLAB)
	CW	DOMESTIC COLD WATER PIPING
	HW	DOMESTIC HOT WATER PIPING
	HWC	DOMESTIC HOT WATER CIRCULATION
	COND	CONDUCTOR PIPING
	COND	CONDUCTOR PIPING (UNDERGROUND/SLAB)
	NDCW	NON-DOMESTIC COLD WATER PIPING
	NDHW	NON-DOMESTIC HOT WATER PIPING
DCW	DCW	DENTAL COLD WATER PIPING
DA	DA	DENTAL AIR PIPING
DV	DV	DENTAL VACCUM PIPING
DAI	DAI	DENTAL AIR INTAKE
DVEX	DVEX	DENTAL VACUUM EXHAUST
		BALL OR GATE VALVE
		GAS VALVE PIPING
G	G	GAS PIPING
	W&T	WASTE & TRAP
	FCO	FLUSH FLOOR CLEANOUT
	FD	FLOOR DRAIN
	CO	LINE OR END CLEANOUT
		PIPE CAP
		PIPE CONTINUATION
		PIPE UP THRU SLAB OF FLOOR ABOVE
		PIPE DOWN THRU FLOOR SHOWN
		PIPE DROP
		PIPE RISE
	BFP	BACKFLOW PREVENTER
	W&V	WASTE & VENT PIPING
	SS	WASTE STACK
	WS	SOIL STACK
	VS	VENT STACK
	CWR	COLD WATER RISER
	HWR	HOT WATER RISER
	ETR	EXISTING TO REMAIN
	CTE	CONNECT TO EXISTING
	CEP	CAP EXISTING PIPE
	FBO	FURNISHED BY OWNER
	SK	SINK

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LEGEND AND SCHEDULES

Project Number	12502
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Checked by	SPQ

P1.00

Scale NTS

J:\2012\0212 UNE College of Dentistry, Maine\CAD-SHELL & CORE\PFP\0212 - P1.00-P2.00-P3.00.dwg, By: EDE14, PLOTTED: May 08, 2012 - 5:26pm
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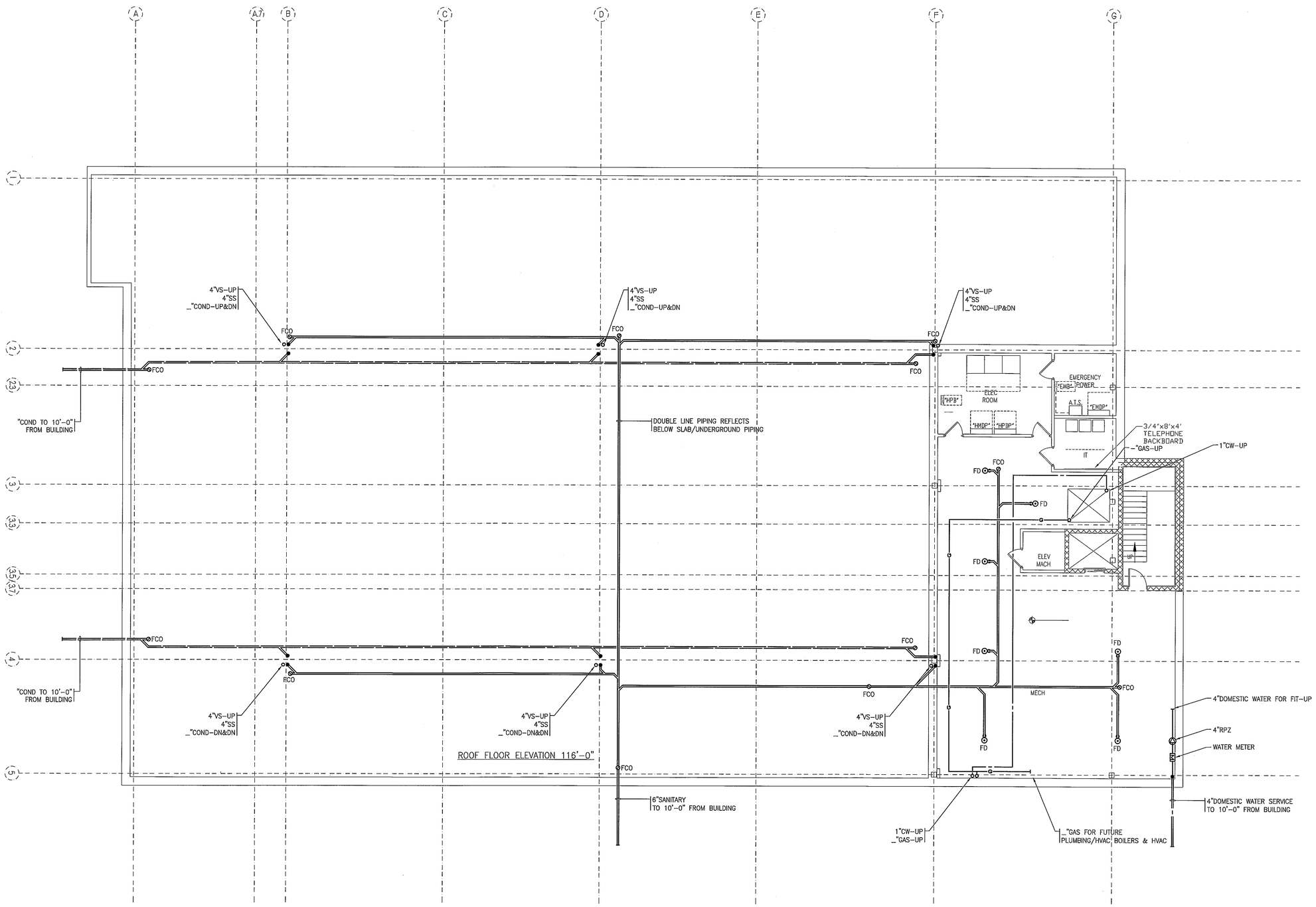
SCALE 1/16"=1' 1/8"=1' 1/4"=1' 3/4"=1' 1/2"=1' 1"=1'



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EXTERIOR SHELL

BASEMENT FLOOR PLAN

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P1.01

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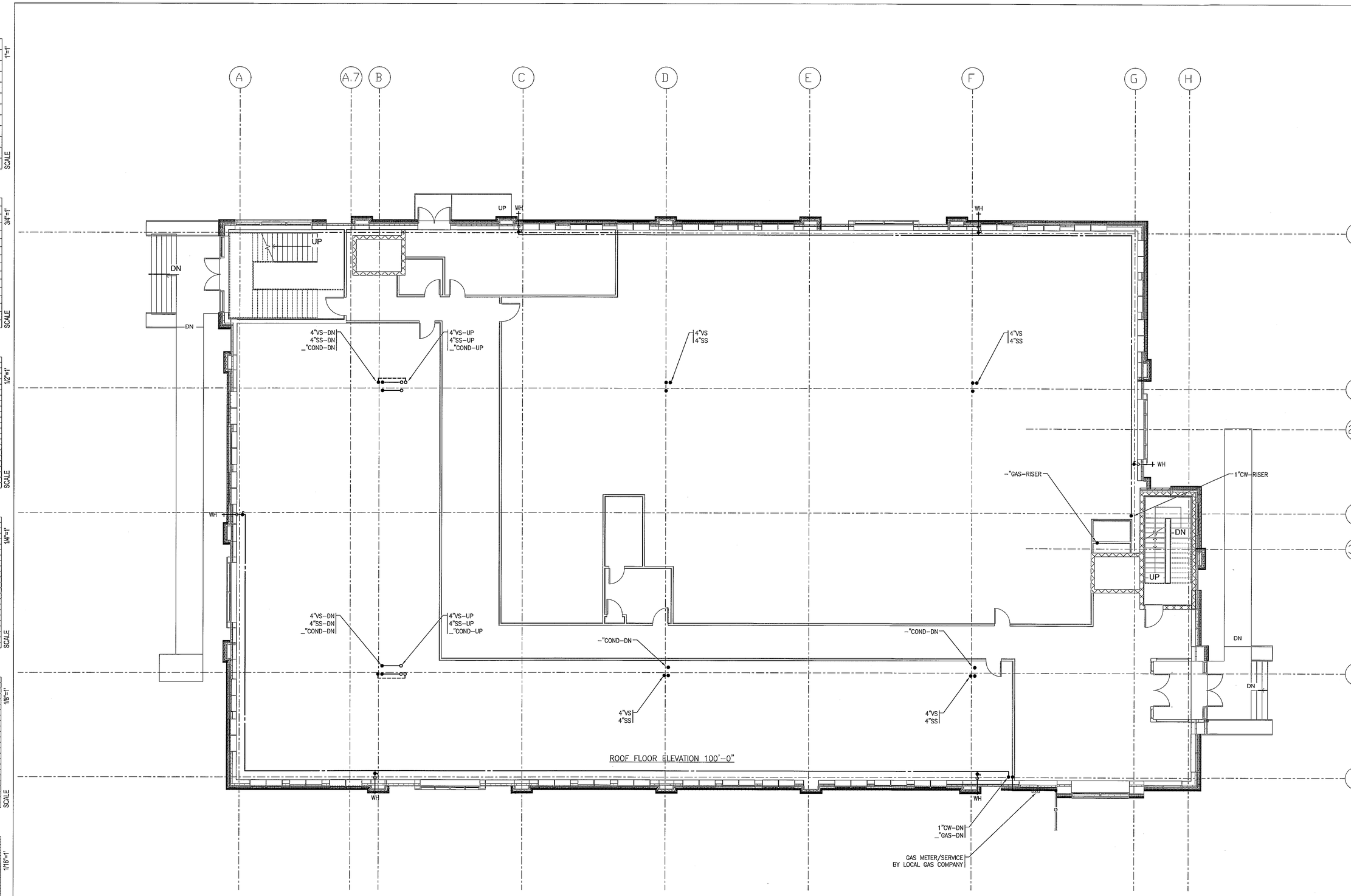

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EXTERIOR SHELL

FIRST FLOOR PLAN

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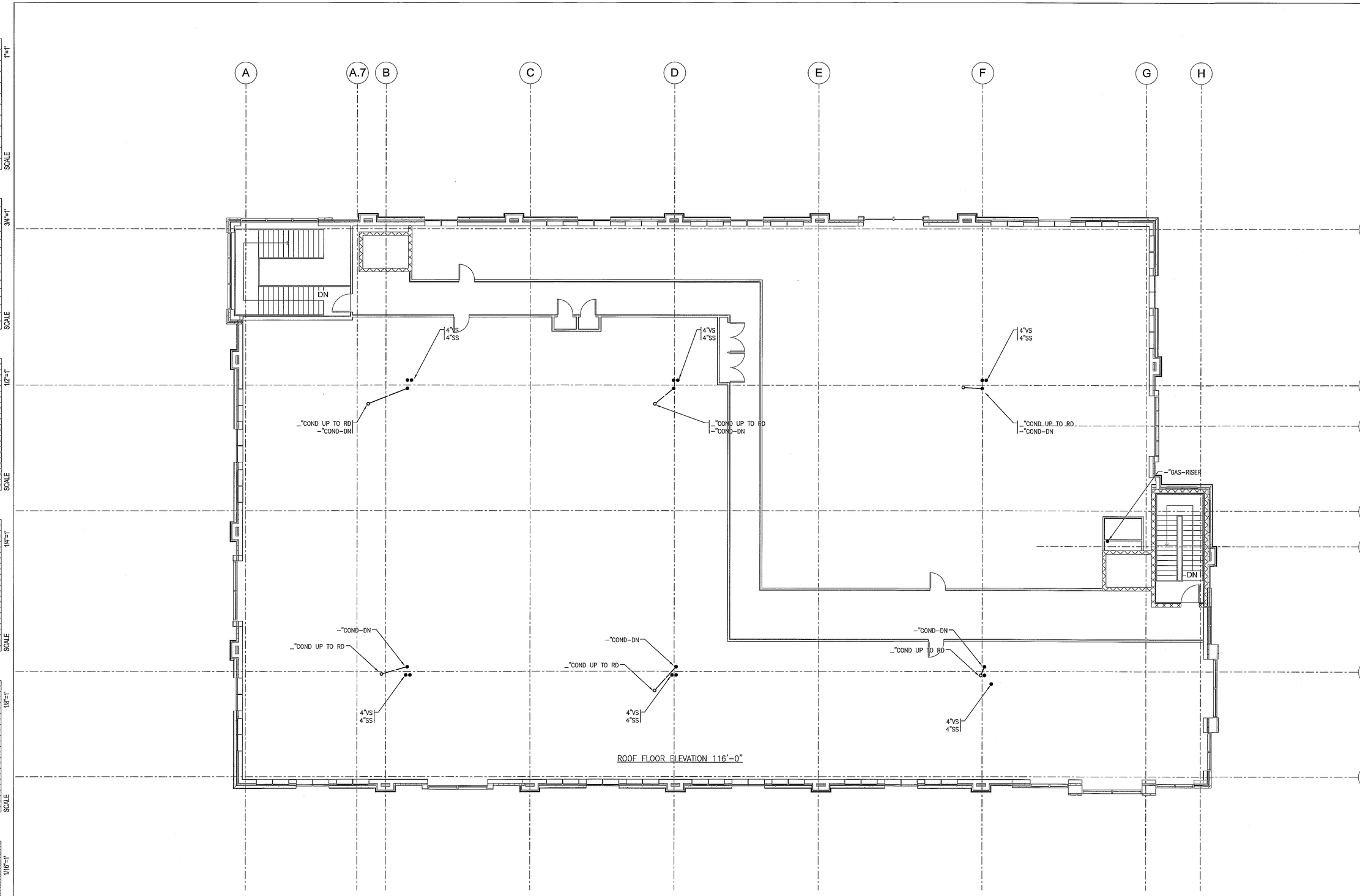

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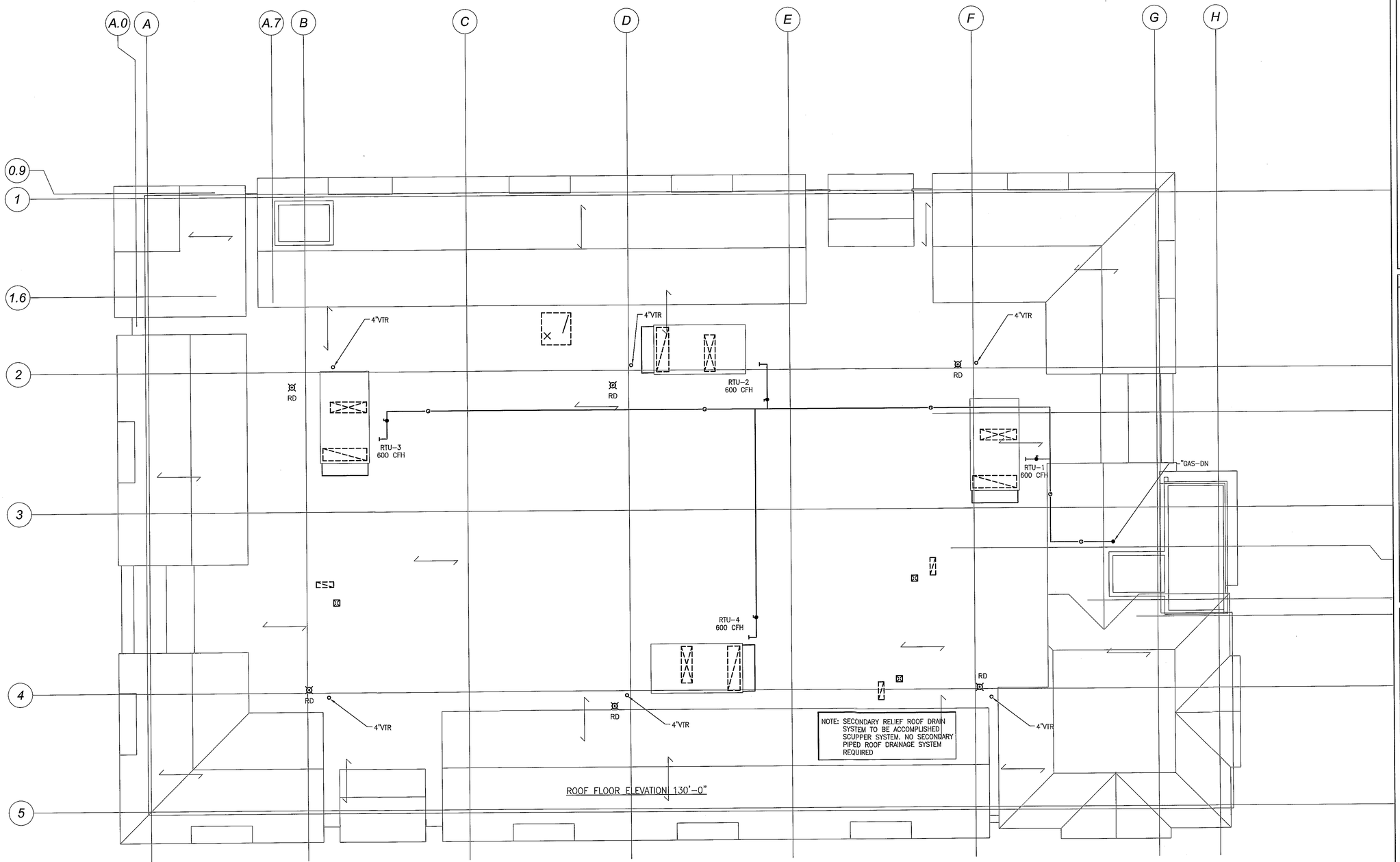

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EXTERIOR SHELL

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MECHANICAL SYMBOL LEGEND

ALL ITEMS SHOWN HERE ARE NOT NECESSARILY USED ON THIS PROJECT

ABBREVIATIONS

AC	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AF	AIR FILTER
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
ATC	AUTOMATIC TEMPERATURE CONTROL
AS	AIR SEPARATOR
AV	AIR VENT
BD	BAROMETRIC DAMPER
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNITS
BV	BALL VALVE
CC	COOLING COIL
CD	CEILING SUPPLY DIFFUSER
CFM	CUBIC FEET PER MINUTE
CP	CONTROL PANEL
CO	CLEAN OUT
COP	CENTER OF PIPE
CR	CEILING RETURN DIFFUSER
CTR	CONTRACTOR
CUH	CABINET UNIT HEATER
CU	CONDENSING UNIT
DB	DRY BULB
DIA	DIAMETER
DIFF	DIFFUSER
DN	DOWN
DX	DIRECT EXPANSION
DWG	DRAWING
E	EXISTING
EAT	ENTERING AIR TEMPERATURE
EBB	ELEC BASEBOARD RADIATION
EFF	EFFICIENCY
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELV	ELEVATION
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
°F	DEGREES FAHRENHEIT
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FMS	FLOW MEASURING STATION
FPM	FEET PER MINUTE
FTR	FINNED TUBE RADIATION
FT	FEET
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GV	GATE VAVLE
HC	HEATING COIL
HP	HORSEPOWER
HP	HEAT PUMP
HRV	HEAT RECOVERY VENTILATOR
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
HW	HOT WATER
HX	HEAT EXCHANGER
Hz	HERTZ
IN	INCHES
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FEET
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSANDS OF BTU'S PER HOUR
MD	MOTORIZED DAMPER
MECH	MECHANICAL
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
PD	PRESSURE DROP
Ph	PHASE
R	RETURN
RA	RETURN AIR
REF	ROOF EXHAUST FAN
REQ'D	REQUIRED
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RH	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RTU	ROOF TOP UNIT
S	SUPPLY
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SqFt	SQUARE FEET
SFD	SMOKE/FIRE DAMPER
SP	STATIC PRESSURE
SQ	SQUARE
SR	SUPPLY REGISTER
SST	SATURATED CONDENSING TEMPERATURE
STL	STEEL
T	THERMOSTAT
T.B.D.	TO BE DEMOLISHED
TYP.	TYPICAL
UC	UNDERCUT DOOR 3/4" (MIN)
UH	UNIT HEATER
V	VOLTS
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WG	WATER GAUGE
WH	WATER HEATER
ZV	ZONE VALVE

DUCTWORK

- SUPPLY CEILING DIFFUSER THROW PATTERN
- RETURN CEILING REGISTER
- CEILING EXHAUST FAN WITH FLEXIBLE CONNECTION
- SIDE WALL GRILLE/REGISTER
- FLOOR GRILLE/REGISTER
- SUPPLY DUCT UP
- SUPPLY DUCT DOWN
- RETURN/EXHAUST DUCT UP
- RETURN/EXHAUST DUCT DN.
- MITERED ELBOW TURNING VANES
- STANDARD RADIUS ELBOW (R=W)
- STANDARD DUCT TAKE-OFF W/ BRANCH DAMPERS
- BULLHEAD SPLIT SUPPLY (OR)
- BULLHEAD CONVERGE RETURN/EXHAUST
- HOIZINTAL OFFSET
- FLEXIBLE CONNECTION (6' NEOPRENE)
- ACOUSTICALLY LINED DUCT
- VOLUME DAMPER (OPPOSED BLADE TYPE) (VD)
- FIRE DAMPER (FD)
- SMOKE/FIRE DAMPER (SFD)
- DUCT CAP
- ACCESS PANEL IN BOTTOM OR SIDE OF DUCT (A/P)
- TRANSITION - ECCENTRIC
- TRANSITION - CONCENTRIC
- RECTANGULAR TO ROUND TRANSITION
- EXHAUST/RETURN/INTAKE
- SUPPLY AIR BLOW DIRECTION

PIPING

- HWS — HEATING HOT WATER SUPPLY
- HWR — HEATING HOT WATER RETURN
- CD — CONDENSATE DRAIN
- PIPE TURNING DOWN
- TEE OFF TOP
- TEE OFF BOTTOM
- DROP AND RUN
- DROP AND TURN
- TEE UP
- TEE DOWN
- CLEAN-OUT FOR CONDENSATE DRAIN
- PIPE CAP
- UNION
- BALL VALVE
- BUTTERFLY VALVE
- GATE VALVE
- 3-WAY VALVE
- CIRCUIT SETTER w/ GAGE PORT
- CHECK VALVE (SWING TYPE)
- PRESSURE REDUCING VALVE
- PLUG VALVE
- MULTI PURPOSE VALVE
- AUTOMATIC BALANCING VALVE
- PUMP
- STRAINER w/ BLOW DOWN (INLINE)
- PIPE CLEANOUT
- UNION
- DIRECTION OF FLOW
- FLOW SWITCH (FS)
- FLOW MEASURING STATION
- SAFETY RELIEF VAVLE PIPE TO FLOOR DRAIN
- CONTROL VALVE ACTUATOR
- MANUAL NON-RISING
- MANUAL LEVER
- THERMOMETER (TYP.)
- PRESSURE GAGE w/ STOP
- MANUAL AIR VENT
- AUTO AIR VENT OR VACUUM RELIEF

GENERAL SYMBOL LEGEND

- S — SWITCH
- (S) — TEMPERATURE SENSOR
- (T) — WALL THERMOSTAT

HVAC GENERAL NOTES

1. THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO CONVEY A FULLY FUNCTIONAL HVAC SYSTEM. DRAWINGS DEPICT THE GENERAL LOCATION OF THE NEW HVAC COMPONENTS AND EXACT LOCATIONS SHALL BE FIELD COORDINATE WITH ALL TRADES AND CONDITIONS. HVAC CONTRACTOR SHALL PROVIDE ALL NECESSARY ACCESSORIES AND DEVICES, WHETHER SPECIFICALLY SHOWN OR NOT, TO PROVIDE PROPER OPERATION WITH FULL BALANCING AND ADJUSTING PER QUANTITIES NOTED ON PLANS AND IN SCHEDULES.
2. CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS AND CONDUCT A FIELD VISIT TO FAMILIARIZE HIMSELF/HERSELF WITH ALL THE REQUIREMENTS OF THE PROJECT AND SHALL NOTIFY THE OWNER OF ANY OBSERVED FAULTS AND AMBIGUITY IN THE CONTRACT DOCUMENTS SO THAT THE MATTER MAY BE RESOLVED PRIOR TO SUBMISSION OF BIDS.
3. BY SUBMISSION OF BID, THE CONTRACTOR SHALL ACKNOWLEDGE ACCEPTANCE OF THE CONTRACT DOCUMENTS AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK AND EXTRA COST CLAIMS BASED ON INADEQUACY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.
4. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND/OR REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
5. PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY FOR COMPLETE AND SAFE INSTALLATION OF HVAC IN FULL CONFORMITY WITH REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION, ALL AS INDICATED ON DRAWINGS AND/OR HEREIN SPECIFIED FOR THE SYSTEMS INCLUDED. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. INCLUDE ALL COSTS FOR PERMITS, LICENSES, CERTIFICATES, FILING AND INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
6. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
7. INSTALLATION OF ALL EQUIPMENT AND THEIR ACCESSORIES SHALL BE PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
8. ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL VERIFY VOLTAGES AND POWER REQUIREMENTS FOR ALL EQUIPMENT AND SHALL COORDINATE WITH THE ELECTRICAL CONTRACT DRAWINGS PRIOR TO SUBMISSION OF SHOP DRAWINGS AND PURCHASE OF EQUIPMENT.
10. MOTOR CONTROLLERS (STARTERS) OR COMBINATION STARTER/DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR EXCEPT THOSE THAT ARE FURNISHED AND WIRED AT THE FACTORY.
11. SUPPORT ALL DUCTWORK AND PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL STEEL FRAMING. ALL MISCELLANEOUS STRUCTURAL SUPPORTS REQUIRED FOR HVAC EQUIPMENT INSTALLATION SHALL BE PROVIDED BY THE HVAC SUBCONTRACTOR.
12. HVAC CONTRACTOR SHALL COORDINATE ALL WALL, CEILING, FLOOR, AND STRUCTURAL PENETRATIONS WITH ARCHITECT AND CONSTRUCTION MANAGER PRIOR TO FABRICATION OR INSTALLATION.
13. SEAL OPENINGS AROUND DUCTS AND PIPING THOUGH PARTITIONS WALLS AND FLOORS (NOT IN SHAFTS) WITH MINERAL WOOL OR OTHER NON-COMBUSTIBLE MATERIAL.
14. NEW DUCTWORK SHALL BE FABRICATED FROM GALVANIZED SHEET METAL IN ACCORDANCE WITH 'SMACNA DUCT CONSTRUCTION STANDARD', CURRENT EDITION. TRANSVERSE JOINTS SHALL BE 'DUCTMATE' OR APPROVED EQUAL.
15. INSTALL FIRE DAMPERS WHERE NECESSARY AS PER NFPA, LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PROVIDE ACCESS PANEL/DOORS TO FIRE DAMPERS WHERE REQUIRED.
16. PROVIDE AIR TURNING DEVICES IN DUCTWORK AT ANY CHANGES IN DIRECTION, AND VOLUME DAMPERS IN ALL DUCTWORK BRANCH-TAKE OFFS. PROVIDE ACCESS PANEL/DOORS TO VOLUME DAMPERS WHERE REQUIRED
17. REFER TO THE SCHEDULES FOR ACCEPTABLE REGISTERS, GRILLES AND DIFFUSERS. COORDINATE FINISHES AND STYLES WITH THE ADJACENT CEILINGS AND WALL AS NOTED ON ARCHITECTURAL PLANS AND SCHEDULES. REFER TO THE PROJECT ARCHITECT FOR ADDITIONAL INFORMATION.
18. EXACT ELEVATION FOR SIDE WALL REGISTERS AND GRILLES SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION.
19. THE CONTRACTOR SHALL THOROUGHLY CLEAN HIS WORK AREA DAILY. CONTRACTOR SHALL ALSO REMOVE ALL TRASH AFTER COMPLETION OF WORK. WORK DONE UNDER THIS CONTRACT SHALL BE ACCOMPLISHED WITH MINIMUM IMPACT ON THE OPERATION OF THE BUILDING AND IT'S TENANTS.
20. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE ON EITHER THE INTERIOR OR THE EXTERIOR.
21. PROVIDE BUTTONS, TABS OR MARKERS TO IDENTIFY LOCATION OF CONCEALED VALVES, DAMPERS AND EQUIPMENT CONCEALED ABOVE REMOVAL CEILING TILES.
22. THE CONTRACTOR SHALL FURNISHED A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF ACCEPTANCE BY OWNER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.
23. ALL SYSTEMS SHALL BE CLEAN OF FOREIGN MATERIAL AND ROUGH SPOTS PRIOR TO BEING PLACED IN SERVICE AND BEFORE OPERATIONAL TESTS ARE PERFORMED.
24. TEST, ADJUST AND BALANCE (TAB) EACH AND EVERY MECHANICAL SYSTEM USING CAPACITIES AS INDICATED ON THE PLANS AND SCHEDULES. AS A MINIMUM, PROVIDE REPORT NOTING QUANTITIES OF AIR AND/OR LIQUID FOR EACH TERMINAL AS WELL AS QUANTITIES, PRESSURE CHANGES AND TEMPERATURE DIFFERENTIALS THROUGH EACH UNIT ALONG WITH MOTOR OPERATING AMPS.
25. CONTRACTOR SHALL SUBMIT COPIES OF COMPLETE TAB REPORT TO THE OWNER/ARCHITECT FOR FINAL APPROVAL. BALANCE REPORT SHALL SHOW METHODS AND RESULTS OF PERFORMED TESTING AND BALANCING. CONTRACTOR SHALL BE 'AABC' AND 'NEBB' CERTIFIED. REPORT SHALL BE SUBMITTED IN TIME FOR REVIEW BEFORE APPLICATION FOR OCCUPANCY PERMIT.
26. CONTRACTOR SHALL PROVIDE CONNECTION TO CAMPUS BUILDING MANAGEMENT SYSTEM (JOHNSON CONTROL).

LIST OF DRAWINGS

H0.01 HVAC LEGEND, & GENERAL NOTES
H1.00 HVAC BASEMENT FLOOR PLAN
H1.01 HVAC FIRST FLOOR PLAN
H1.02 HVAC SECOND FLOOR PLAN
H1.03 HVAC ROOF PLAN
H2.00 HVAC SCHEDULES
H3.00 HVAC SPECIFICATIONS
H4.00 HVAC DETAILS

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EXTERIOR SHELL

LEGEND AND SCHEDULES

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H0.01

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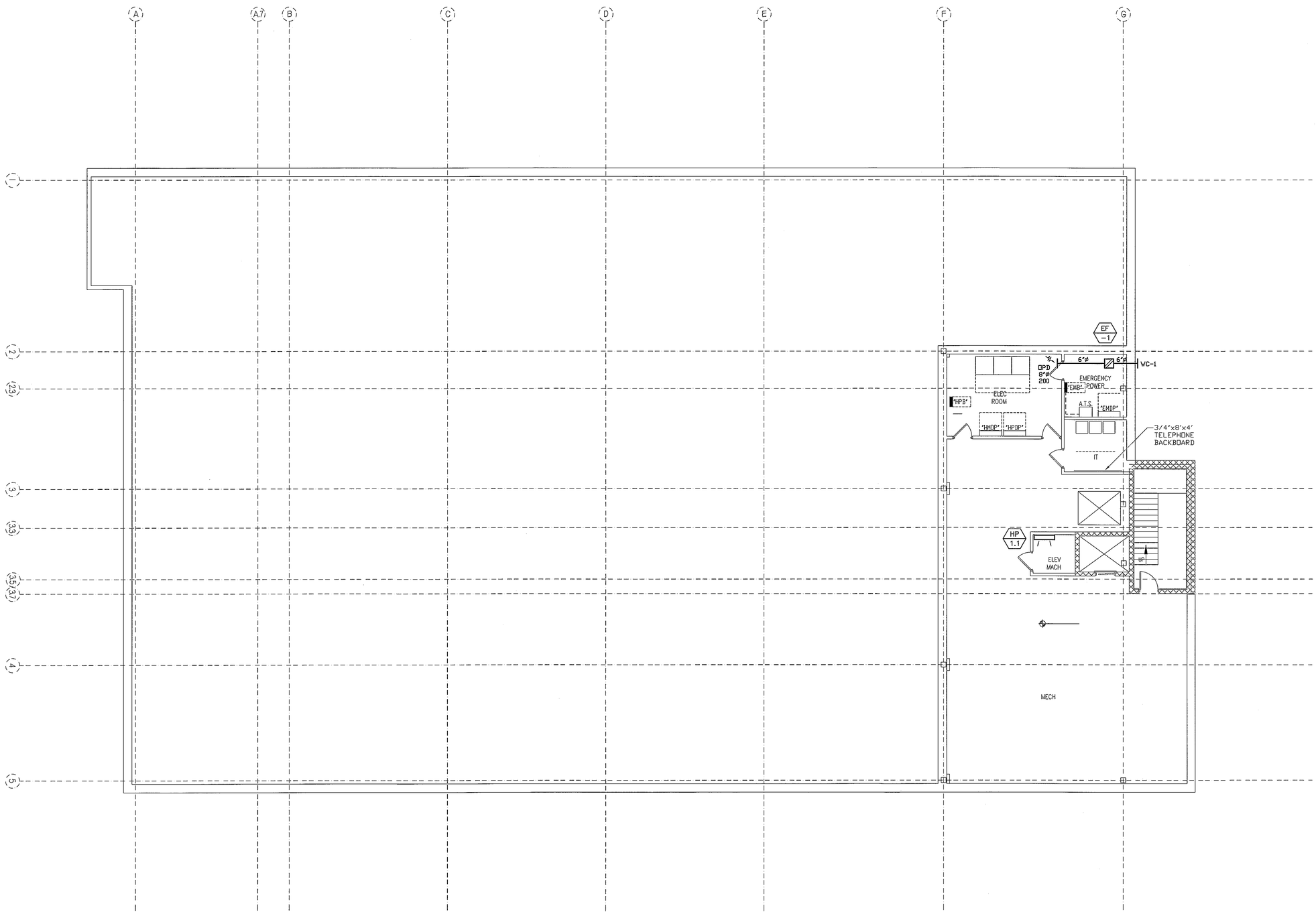

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HVAC - Basement Plan

Project Number	12502
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Checked by	KAZ

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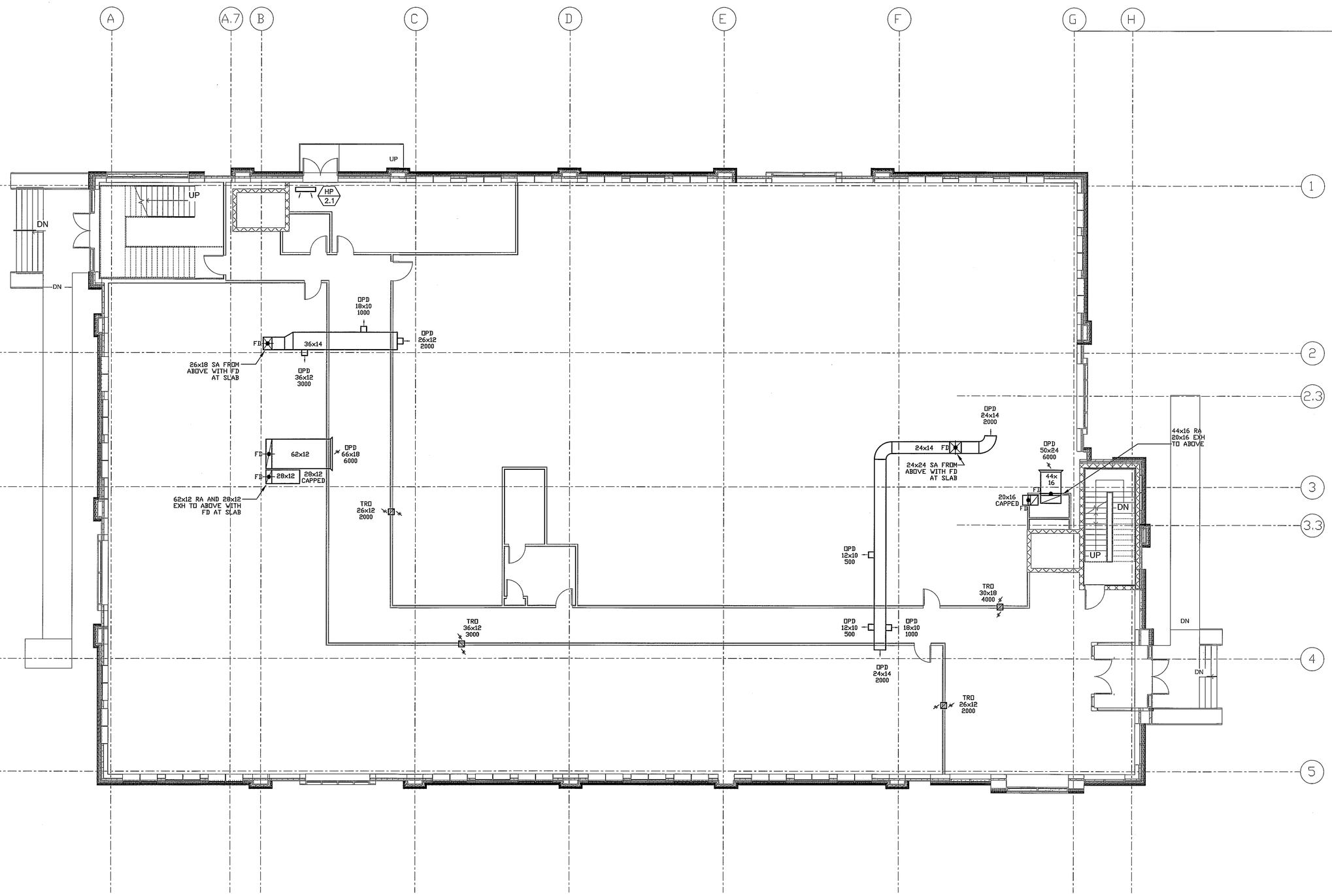

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REVISIONS

No.	Description	Date

PERMIT SET

UNIVERSITY OF NEW ENGLAND

PORTLAND, MAINE

PATIENT CARE CENTER

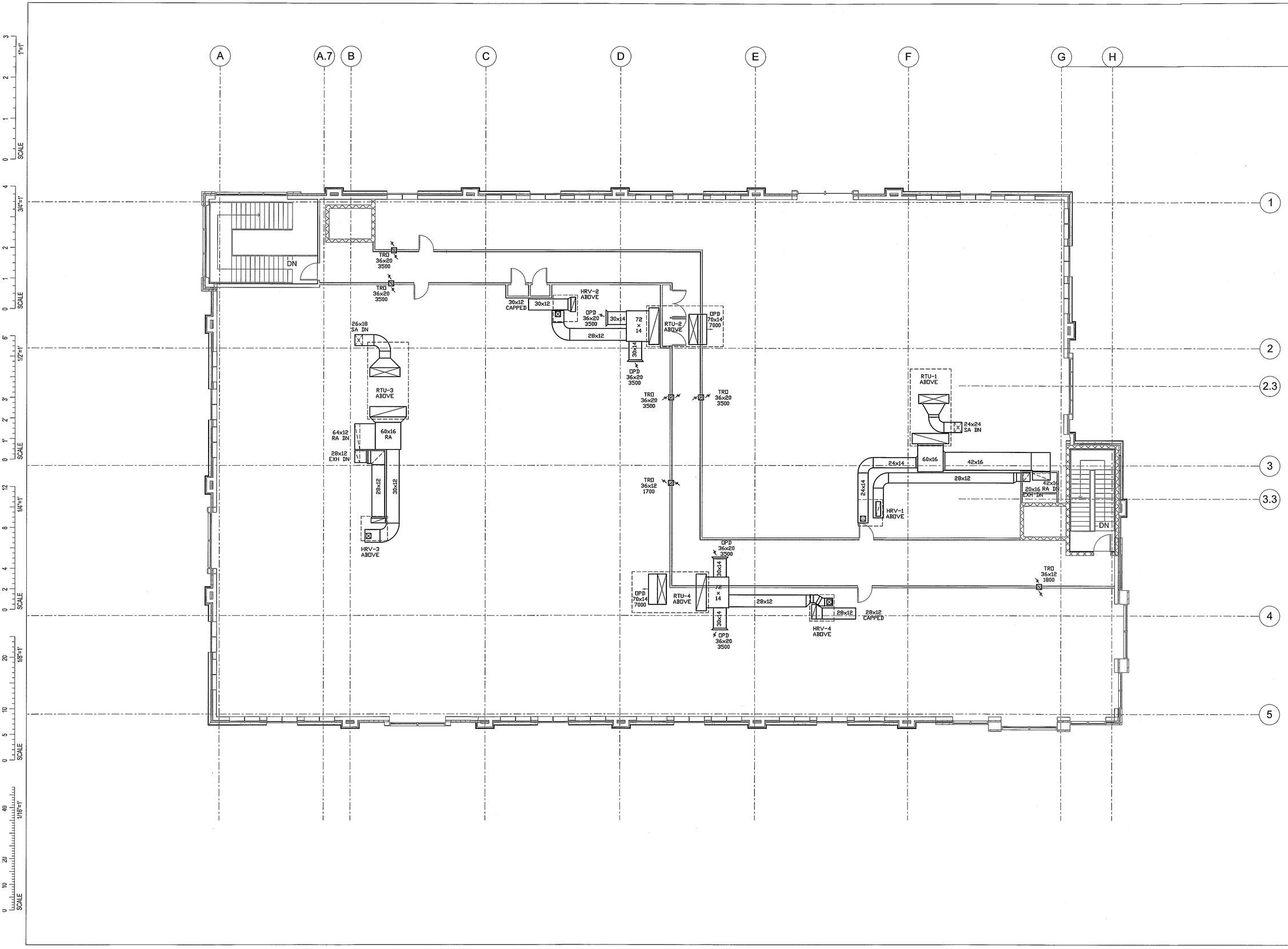
EXTERIOR SHELL

HVAC - 1st Floor Plan

Project Number	12502
Date	May 11, 2012
Drawn by	JRK
Checked by	KAZ

H1.01

Scale 1/8" = 1'-0"



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REVISIONS

No.	Description	Date

PERMIT SET

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

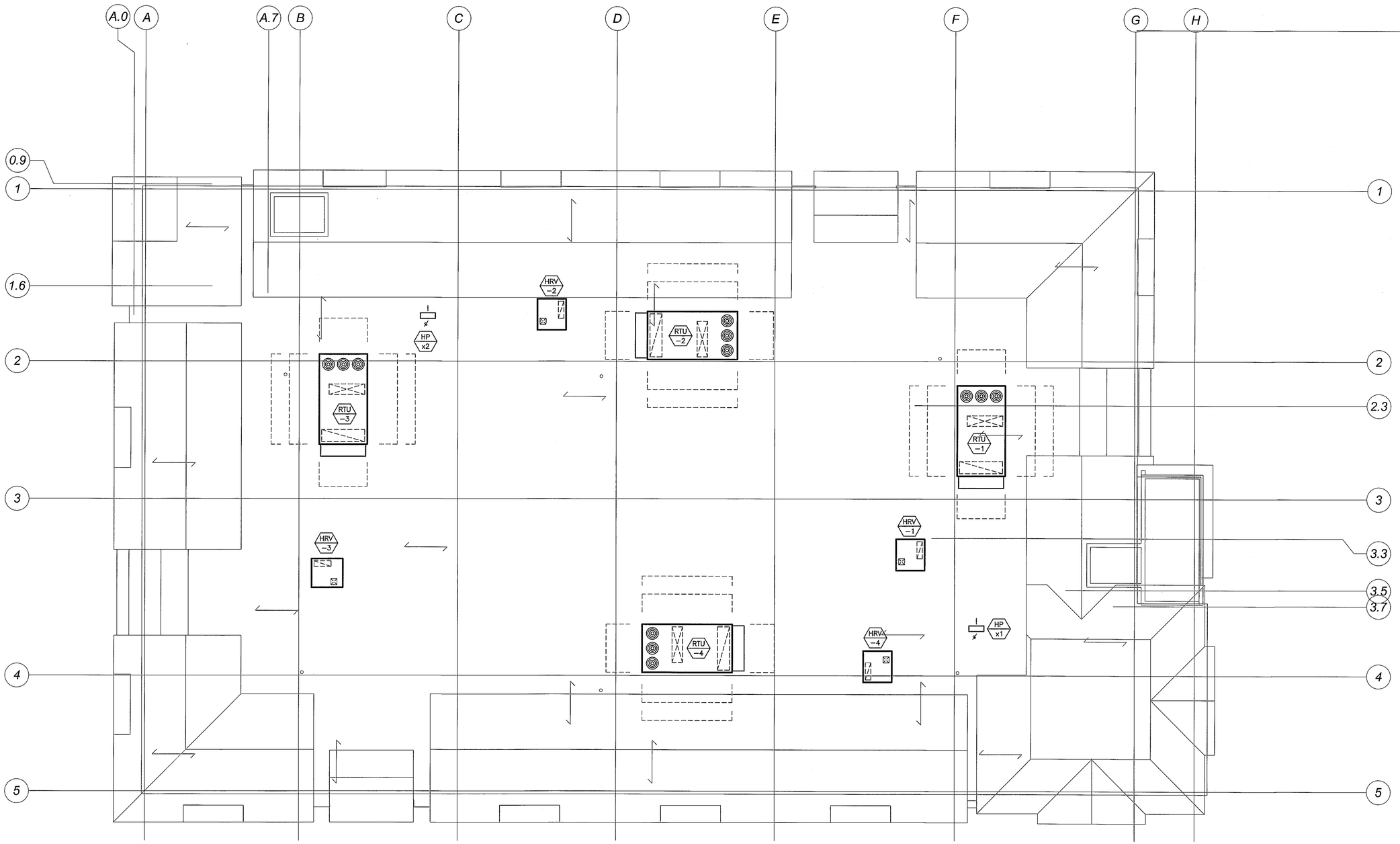
PATIENT CARE CENTER
EXTERIOR SHELL

HVAC - 2nd Floor Plan

Project Number	12502
Date	May 11, 2012
Drawn by	JRK
Checked by	KAZ

H1.02

Scale 1/8" = 1'-0"



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No.	Description	Date

PERMIT SET

UNIVERSITY OF NEW ENGLAND

PORTLAND, MAINE

PATIENT CARE CENTER

EXTERIOR SHELL

HVAC Roof Plan

Project Number	12502
Date	May 11, 2012
Drawn by	JRK
Checked by	KAZ

H1.03

Scale 1/8" = 1'-0"

GAS FIRED PACKAGED ROOF-TOP UNIT SCHEDULE

MARK	MODEL (McQUAY)	TOTAL C.F.M.	E.S.P. (IN. H2O)	MIN OUTSIDE AIR	COOLING CAPACITY TOTAL M.B.H.	COOLING CAPACITY SENS MBH	GAS HEATING (MBH) MAX IN/OUT.	GAS HEATING (MBH) MIN IN/OUT.	ELECTRICAL CHARACTERISTICS INDOOR SA FAN NO.	INDOOR SA FAN HP	INDOOR SA FAN FLA	EXHAUST FAN NO.	EXHAUST FAN HP	EXHAUST FAN FLA	OUTDOOR FANS NO.	OUTDOOR FANS HP	OUTDOOR FANS FLA	COMPRESSORS NO.	COMPRESSORS R.L.A.	UNITS MCA	UNITS MOCP	WEIGHT (LBS)	REMARKS
RTU-1	MPS-026G	10,000	1.50	2500	313	249	600/480	150/120	1@	10.0	26.0	2 @	1.0	3.7	3 @	0.33	1.4	3 @	25.0	130.2	150	4000	1+2+3+4
RTU-2	MPS-026G	10,000	1.50	2500	313	249	600/480	150/120	1@	10.0	26.0	2 @	1.0	3.7	3 @	0.33	1.4	3 @	25.0	130.2	150	4000	1+2+3+4
RTU-3	MPS-026G	10,000	1.50	2500	313	249	600/480	150/120	1@	10.0	26.0	2 @	1.0	3.7	3 @	0.33	1.4	3 @	25.0	130.2	150	4000	1+2+3+4
RTU-4	MPS-026G	10,000	1.50	2500	313	249	600/480	150/120	1@	10.0	26.0	2 @	1.0	3.7	3 @	0.33	1.4	3 @	25.0	130.2	150	4000	1+2+3+4

NOTES: 1) ELECTRICAL BASED ON 208-230/3/60.
2) 4 STEPS COOLING CAPACITY CONTROL.
3) MODULATING GAS CONTROL.
4) RTU MEETS MAINE BUILDING CODES REQUIREMENTS, INCLUDING THOSE OF ENERGY EFFICIENT AND EMISSIONS

HEAT RECOVERY UNIT (HRV) SCHEDULE

MARK	MODEL RENEWAIRE	SERVES	EXHAUST SIDE CFM	EXHAUST SIDE ESP	EXHAUST SIDE MOTOR (hp)	INTAKE SIDE CFM	INTAKE SIDE ESP	INTAKE SIDE MOTOR (hp)	SENS EFF (%)	SUMMER OPERATION EAT-EXH Db-Wb	SUMMER OPERATION EAT-OA Db-Wb	SUMMER OPERATION LAT-SA Db-Wb	WINTER OPERATION EAT-EXH Db-Wb	WINTER OPERATION EAT-OA Db-Wb	WINTER OPERATION LAT-SA Db-Wb	ELECTRIC FLA	ELECTRIC MCA	ELECTRIC MOP	WEIGHT (LBS)	NOTES
HRV-1	HE-3X-RT	RTU-1	2500	0.75	3.0	2500	0.50	3.0	70	75/62	83/70	77.7/70	70/54	-3/-4	46.5/38	9.2	20.7	30	800	1
HRV-2	HE-3X-RT	RTU-2	2500	0.75	3.0	2500	0.50	3.0	70	75/62	83/70	77.7/70	70/54	-3/-4	46.5/38	9.2	20.7	30	800	1
HRV-3	HE-3X-RT	RTU-3	2500	0.75	3.0	2500	0.50	3.0	70	75/62	83/70	77.7/70	70/54	-3/-4	46.5/38	9.2	20.7	30	800	1
HRV-4	HE-3X-RT	RTU-4	2500	0.75	3.0	2500	0.50	3.0	70	75/62	83/70	77.7/70	70/54	-3/-4	46.5/38	9.2	20.7	30	800	1

NOTES: 1) ELEC BASED ON 208-230/3/60.

DUCTLESS SPLIT SYSTEMS

INDOOR MARK	TONS (NOM)	INDOOR MODEL	LOCATION	TYPE	CFM HI/LO	AMPS	CAPACITY (MBH) COOL	CAPACITY (MBH) HEAT	OUTDOOR MARK	OUTDOOR MODEL	LOCATION	WEIGHT (LBS)	ELECTRIC (AMPS) MCA	MSC	COOL	HEAT	CB	REMARKS
HP-1.1	2	FTXS-24-DVJU	ELEV MR	WALL	530/400	0.2	22.0	8.67	HP-x1	RXS-24-DVJU	ROOF	130	15.8	11.8	10.1	11.1	20	1+2+3+4+5+6+7
HP-2.1	2	FTXS-24-DVJU	ELEV MR	WALL	530/400	0.2	22.0	8.67	HP-x2	RXS-24-DVJU	ROOF	130	15.8	11.8	10.1	11.1	20	1+2+3+4+5+6+7

NOTES: 1) ELECRICAL BASED ON 208/230-1-60. 2) PROVIDE WITH SEVEN (7) YEAR COMPRESSOR AND FIVE (5) YEAR PARTS WARRANTIES. 3) PROVIDE WITH INVERTER DRIVEN, VARIABLE SPEED, SCROLL COMPRESSOR. 4) COOLING CAPACITY BASED ON 95 °F DA AND 80/67 °F RA. 5) HEATING HIGH CAPACITY BASED ON 47 °F DA AND 70 °F RA AND 25' PIPE RUN. 6) COOLING RANGE TO BE 14°F-115°F DB AND HEATING RANGE TO BE 5°F-65°F DB. 7) ALTERNATE MANUFACTURERS TO INCLUDE MITSUIBISHI OR CARRIER.

EXHAUST FAN SCHEDULE

MARK	SERVING	MODEL	MANUFACTURER	C.F.M.	E.S.P.	R.P.M.	DRIVE	SONES	FAN MOTOR WATTS	AMPS MAX	V-PH-HZ	NOTES
EF-1	ELEC RM	FG-6	FANTECH	196	.60	2700	DIR	1.3	72	0.68	120-1-60	1+2+3

NOTES: 1) FAN PROVIDED BY MECH CONTRACTOR WITH EXHAUST DUCTING. 2) PROVIDE WITH REMOTE THERMOSTAT SET FOR FAN ON AT 90 °F OR ABOVE. 3) PROVIDE WITH VARIABLE SPEED SWITCH MOUNTED NEAR FAN FOR BALANCING.

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STATE OF MAINE DAVID H. MAHONEY 11596 LICENSED PROFESSIONAL ENGINEER

REVISIONS

No.	Description	Date

PERMIT SET

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

HVAC SCHEDULES

Project Number	12502
Date	May 11, 2012
Drawn by	JRK
Checked by	KAZ

H2.00

Scale NTS

J:\2012\0212 UNE College of Dentistry, Maine\CAD-SHELL & CORE\HVAC\0212 - H0.01-H2.00.dwg, By: EDE14, PLOTTED: May 10, 2012 - 9:27am
IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY
1"=1' 3/4"=1' 1/2"=1' 1/4"=1' 1/8"=1' 1/16"=1' SCALE

IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY

ELECTRICAL LEGEND:

LIGHTING

- A — SURFACE MOUNTED FLUORESCENT STRIP LIGHT FIXTURE (LENGTHS MAY VARY). "A" DENOTES FIXTURE TYPE, "1" DENOTES CIRCUIT NUMBER. HALF SHADED FIXTURES INDICATE FIXTURE TO BE FURNISHED WITH AN INTEGRAL EMERGENCY BALLAST, OR WIRED TO AN EMERGENCY GENERATOR (IF PRESENT)
- B — LINEAR FLUORESCENT FIXTURE (DIMENSIONS VARY). SEE NOMENCLATURE ABOVE
- CEILING MOUNTED EXIT SIGN. ARROWS INDICATE DIRECTION TO EXIT. SHADING INDICATES SIDE(S) TO HAVE "EXIT" STENCIL. SEE NOMENCLATURE ABOVE
- WALL MOUNTED EXIT SIGN. SEE NOMENCLATURE ABOVE
- WALL MOUNTED COMBINATION EBU / EXIT SIGN. SEE NOMENCLATURE ABOVE
- WALL MOUNTED FLOOD LIGHT / REMOTE HEAD
- S2 — SINGLE POLE SWITCH. "2" - DENOTES SPECIFIC LAMPS TO BE CONTROLLED. MOUNTED 48" ABOVE FINISHED FLOOR
- S3 — THREE WAY SWITCH. SEE NOMENCLATURE ABOVE. MOUNTED 48" ABOVE FINISHED FLOOR
- SD — SINGLE POLE 1500W DIMMER. SEE NOMENCLATURE ABOVE. MOUNTED 48" ABOVE FINISHED FLOOR
- SP — SINGLE POLE SWITCH. "P" - DENOTES "PILOT LIGHT". MOUNTED 48" ABOVE FINISHED FLOOR

LIGHTING CONTROL SYSTEM

- M — CEILING MOUNTED PASSIVE INFRARED / MICRO-PHONIC OCCUPANCY SENSOR WATT STOPPER NO.: DT-300 PROVIDED WITH WATT STOPPER POWER PACK = BZ-100 OR EQUAL
- M 120 — 120V. CEILING MOUNTED PASSIVE INFRARED / MICRO-PHONIC OCCUPANCY SENSOR WATT STOPPER NO.: DT-355 OR EQUAL
- CEILING MOUNTED PASSIVE INFRARED / MICRO-PHONIC NARROW BEAM OCCUPANCY SENSOR WATT STOPPER NO.: WT-2255 PROVIDED WITH WATT STOPPER POWER PACK = BZ-100 OR EQUAL
- M — WALL MOUNTED PASSIVE INFRARED / ULTRASONIC OCCUPANCY SENSOR WATT STOPPER NO.: DW-100 OR EQUAL

POWER

- DUPLEX CONVENIENCE OUTLET, 20A 125V, 2 POLE, 3 WIRE, U SLOT. GROUNDED TYPE MOUNTED 18" ABOVE FINISHED FLOOR (TO CENTER LINE). "1" INDICATES CIRCUIT NUMBER
- DUPLEX CONVENIENCE OUTLET, 20A 125V, 2 POLE, 3 WIRE, U SLOT. GROUNDED TYPE MOUNTED 48" ABOVE FINISHED FLOOR OR 6" ABOVE COUNTER (TO CENTER LINE). SEE NOMENCLATURE ABOVE
- DUPLEX CONVENIENCE OUTLET, 20A 125V, 2 POLE, 3 WIRE, U SLOT. GROUNDED TYPE ONE-HALF SWITCHED MOUNTED 18" ABOVE FINISHED FLOOR (TO CENTER LINE). SEE NOMENCLATURE ABOVE
- DOUBLE DUPLEX OUTLET, MOUNTED 18" ABOVE FINISHED FLOOR. SEE NOMENCLATURE ABOVE
- DOUBLE DUPLEX OUTLET, MOUNTED 48" ABOVE FINISHED FLOOR. SEE NOMENCLATURE ABOVE
- WP — GROUND FAULT INTERRUPTING (GFI) TYPE DUPLEX CONVENIENCE OUTLET. MOUNTED 18" ABOVE FINISHED FLOOR. WP - DENOTES TO BE PROVIDED WITH A WEATHERPROOF ENCLOSURE. SEE NOMENCLATURE ABOVE
- "LP" — RECESSED PANELBOARD. "LP" - DENOTES PANEL DESIGNATION
- "LP" — SURFACE MOUNTED PANELBOARD. "LP" - DENOTES PANEL DESIGNATION
- 4" CIRCULAR JUNCTION BOX
- 4" SQUARE JUNCTION BOX

DATA/ COMMUNICATION/ SECURITY

- W — TELEPHONE OUTLET MOUNTED 18" ABOVE FINISHED FLOOR. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A FLUSH MOUNTED, SINGLE PORT, MODULAR RJ11 TELEPHONE JACK WITH 1-4/C #24 AWG, CATEGORY 3, TELEPHONE CABLE FROM EACH OUTLET INDICATED ON THE PLANS TO THE TEL/DATA ROOM. W - DENOTES PHONE MOUNTED 48" ABOVE FINISHED FLOOR
- DATA OUTLET MOUNTED 18" ABOVE FINISHED FLOOR. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A FLUSH MOUNTED, SINGLE PORT, MODULAR RJ45 DATA JACK WITH 1-8/C #24 AWG, CATEGORY 6, DATA CABLE FROM EACH OUTLET INDICATED ON THE PLANS TO THE TEL/DATA ROOM.
- TEL/DATA OUTLET MOUNTED 18" ABOVE FINISHED FLOOR. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL 2 FLUSH MOUNTED MODULAR RJ45 DATA JACKS WITH 2-8/C #24 AWG, CATEGORY 6, DATA CABLES FROM EACH OUTLET INDICATED ON THE PLANS TO THE TEL/DATA ROOM.
- CABLE T.V. OUTLET, MOUNT 18" A.F.F. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL AN OUTLET BOX, FACEPLATE W/ "F" CONNECTOR AND A SINGLE COAXIAL CABLE FROM EACH OUTLET TO THE TEL/DATA ROOM. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOCAL CABLE COMPANY FOR EXACT CABLE TYPE.

ONE-LINE

- 20A / P — CIRCUIT BREAKER. TOP VALUE DENOTES BREAKER RATING. BOTTOM VALUE DENOTES NUMBER OF POLES
- FUSE. RATING AS INDICATED ON DRAWINGS
- SINGLE POLE SWITCH
- PUSH BUTTON
- FUSE AND SWITCH
- GFI — GROUND FAULT SENSOR
- C — COIL
- ST — SHUNT TRIP COIL
- PT'S — POTENTIAL TRANSFORMER
- CT'S — CURRENT TRANSFORMER
- TRANSFORMER
- AUTOMATIC TRANSFER SWITCH (ATS)
- BATTERY
- GROUND CONDUCTOR
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSOR
- G — GENERATOR RATING AS INDICATED ON DRAWINGS

LIGHTNING PROTECTION

- 3/8" DIAMETER x 18" TALL COPPER AIR TERMINAL WITH STAINLESS STEEL BOLTED PRESSURE CONNECTORS AND ANCHORS FOR MOUNTING TO ROOF. AIR TERMINALS MOUNTED ON SLOPED SURFACES SHALL BE PROVIDED WITH FLEXIBLE SWIVEL ADAPTERS.
- UL LISTED, CAST BRONZE BONDING PLATE. WITH BOLT PRESSURE TYPE CONNECTOR.
- #2/0 STRANDED COPPER CONDUCTOR. A PERIMETER CABLE SHALL BE INSTALLED AROUND THE ENTIRE BUILDING. CABLE SHALL BE RUN EXPOSED.
- CADWELD CONNECTION
- DOWN CONDUCTOR
- GROUND TERMINAL SHALL BE A 3/4" DIAMETER COPPER GROUND ROD AND DRIVEN TO A MINIMUM DEPTH OF 10'-0" OR MORE IF NECESSARY TO REACH PERMANENT MOISTURE.

WIRING

- LP-L3 — HOMERUN - CABLE. LP1 - DENOTES PANELBOARD. L3 - DENOTES CIRCUITS. "TICKS" INDICATE NUMBER OF CONDUCTORS IN THE RUN
- LP-L3 — HOMERUN - PIPE. SEE NOMENCLATURE ABOVE
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT STUB
- WIRE BREAK
- NORMAL POWER WIRING
- EMERGENCY POWER WIRING
- TEL/DATA WIRING
- LOW VOLTAGE / CONTROL WIRING
- ISOLATED GROUND WIRING. "TICK SETS (1 SHORT & 1 LONG)" INDICATE NUMBER OF CONDUCTORS IN THE RUN

ABBREVIATIONS & NOTATION

- RTU / 1 — MECHANICAL EQUIPMENT DESIGNATION CONTENTS DESCRIBE MACHINERY (BY MECHANICAL ENGINEER)
- 1 — REVISION TAG. 1 - DENOTES REVISION NUMBER

ABBREVIATIONS:

A.A.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
DW	DISHWASHER
E.C.	ELECTRICAL CONTRACTOR
EX	EXISTING TO REMAIN
ER	EXISTING TO BE RELOCATED
ETR	EXISTING TO BE REMOVED
EXP	EXPLOSION PROOF
G.C.	GENERAL CONTRACTOR
IG	ISOLATED GROUND
WP	WEATHERPROOF

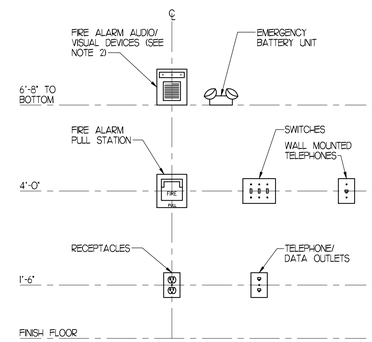
LIGHTING FIXTURE SCHEDULE

ALL FLUORESCENT BALLAST'S SHALL BE OF THE ELECTRONIC, UNIVERSAL TYPE. MANUFACTURED BY ADVANCE OR EQUAL

DESIG	MANUFACTURER	CATALOG NUMBER	MTG	VOLT	LAMP		REMARKS
					QTY	DESCRIPTION	
A	BEGHELLI	BS1000T5-HO-4-HT-15-4T5-HO-120/277V	S	120	1	54W T5-HO	4' VAPORTIGHT
B	FSC	8248-154-UNV	S	120	1	54W T5-HO	4' STRIP
.	.	.	.	.	.	.	.
	BEGHELLI	XLP-S3-AT	S	120	-	INCLUDED	EMERGENCY BATTERY UNIT
X1	BEGHELLI	VA5-R-SA-ATX	U	120	-	LED	SELF CONTAINED EXIT SIGN
X2	BEGHELLI	XCL-R-U-W-N-R	U	120	-	LED	SELF CONTAINED EXIT W/ REMOTE CAPABILITY
X3	BEGHELLI	LRP-1-6W/18W-WP	W	6	-	INCLUDED	REMOTE HEAD

MOUNTING KEY:
"P" - PENDANT MOUNTED "S" - SURFACE MOUNTED "W" - WALL MOUNTED
"R" - RECESSED MOUNTED "U" - UNIVERSAL MOUNTED

NOTE:
ALL LAMPS TO BE MANUFACTURED BY GENERAL ELECTRIC, PHILLIPS OR SYLVANIA

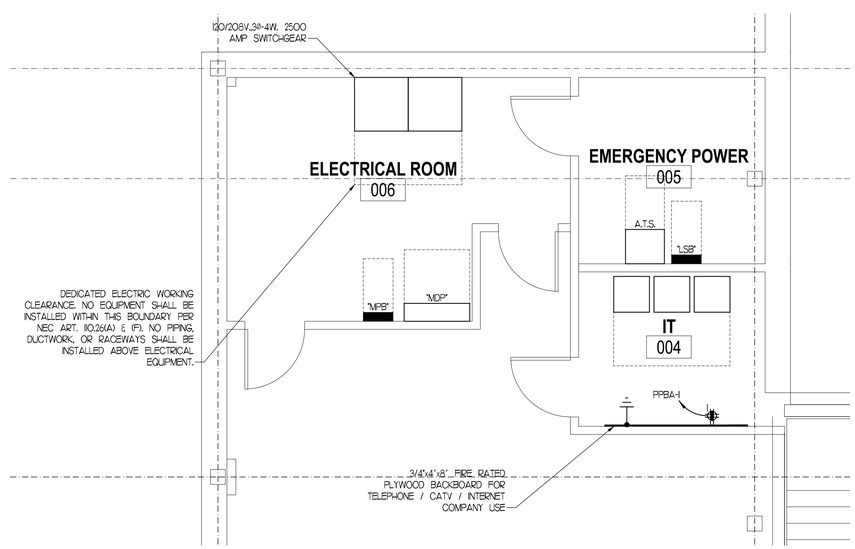


DEVICE MOUNTING HEIGHT DETAIL

SCALE: NOT TO SCALE

NOTES

1. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, UNLESS OTHERWISE NOTED.
2. DEVICES, NOT NECESSARILY THE ELECTRICAL BACK BOX, SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHERE EVER POSSIBLE.
3. ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DETAIL UNLESS OTHERWISE NOTED.
4. REFER TO ARCHITECTS PLANS, ELEVATION AND DETAILS FOR HORIZONTAL ARRANGEMENT.
5. SWITCHES IN ACCESSIBLE UNITS SHALL BE MOUNTED WITHIN 15"-48" AFF



ENLARGED ELECTRIC ROOM PART PLAN

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

GENERAL NOTES

1. PERFORM ALL WORK IN ACCORDANCE WITH NATIONAL AND STATE ELECTRICAL CODES, LOCAL ORDINANCES, AND REQUIREMENTS OF THE WIRING INSPECTOR.
2. MATERIALS
   a. ALL WIRING SHALL BE COPPER, 75° CELSIUS. GENERAL BRANCH WIRING SHALL BE TYPE "MC" CABLE FOR GENERAL INTERIOR WIRING AND EMT FOR ANY EXPOSED BRANCH CIRCUIT WIRING.
   b. ALL PRODUCTS AND DEVICES SHALL BE NEW AND BEAR THE UNDERWRITERS' LABORATORIES LABEL. DEVICES SHALL BE SPECIFICATION GRADE. COLOR OF DEVICES SHALL BE COORDINATED WITH THE ARCHITECT.
3. PERFORM ALL WORK IN A WORKMANLIKE AND TIMELY MANNER SUBJECT TO THE APPROVAL OF THE ENGINEER.
4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSURANCE, PERMITS, FEES AND BACKCHARGES REQUIRED FOR THE PERFORMANCE OF HIS/HER WORK.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL WORK WITH ALL OTHER TRADES. ANY CONFLICT SHALL BE PRESENTED TO THE GENERAL CONTRACTOR AND ENGINEER PRIOR TO INSTALLATION OF WORK.
6. PANEL DIRECTORIES SHALL REFLECT THE WORK PERFORMED UNDER THIS CONTRACT. PANELS SHALL BE PROVIDED WITH TYPED DIRECTORIES.
7. ALL PRODUCTS SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY OWNER.
8. ALL WIRING AND EQUIPMENT ARE DEPICTED DIAGRAMMATICALLY. FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD AND ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
9. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY POWER AND LIGHTING. SPECIAL PURPOSE POWER REQUIREMENTS SHALL BE PAID FOR BY THE TRADE REQUIRING SAME. (WELDERS, COMPRESSORS, ETC.)
10. SHOP DRAWINGS SHALL BE SUBMITTED ON ALL ELECTRICAL EQUIPMENT, BEFORE PROCUREMENT OF EQUIPMENT.
11. ALL NEW WIRING INDICATED ON PLANS SHALL MATCH THE AMPACITY OF THE CIRCUIT BREAKER INDICATED AT THE HOMERUN. WHERE NO BREAKER SIZE IS INDICATED, THE BREAKER SHALL BE 20A/1P WITH #12 AWG CABLE.
12. WIRE AND CONDUIT SIZES INDICATED ON HOMERUNS SHALL RUN CONTINUOUS THROUGHOUT CIRCUIT.
13. CONDUITS AND CIRCUITRY INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. FINAL LOCATION OF CONDUITS SHALL BE FIELD COORDINATED SO AS TO AVOID CONFLICTS WITH OTHER TRADES.
14. ALL 120 VOLT BRANCH CIRCUITS WHEN 100 LINEAR FEET OR MORE FROM LAST OUTLET OR FIXTURE IN CIRCUIT TO RESPECTIVE PANELBOARDS SHALL BE A MINIMUM OF #10 AWG COPPER WIRE(S).
15. COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH H.V.A.C., PLUMBING AND FIRE PROTECTION CONTRACTORS.
16. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHTING FIXTURES COMPLETE WITH MOUNTING ACCESSORIES TO MEET PROJECT CONDITIONS.
17. THE ELECTRICAL CONTRACTOR SHALL VERIFY FIXTURE MOUNTING AND EXACT LOCATIONS AGAINST ARCHITECTS REFLECTED CEILING PLANS, ELEVATIONS AND DETAIL DRAWINGS.
18. ALL FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, INDEPENDENT OF HUNG CEILING.
19. WIRING THAT PENETRATES FLOOR SLABS SHALL BE IN RIGID STEEL CONDUIT AND SEALED WITH THE APPROPRIATE SEAL FITTINGS. ALL SEALING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 500.5 OF THE NATIONAL ELECTRIC CODE.
20. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE STOPPING ALL AROUND EACH CONDUIT THAT PENETRATES A RATED WALL, FLOOR AND/OR CEILING. FIRE STOP PUTTY SHALL BE UTILIZED AND COMPLETELY FILL ANY GAPS IN THE WALLS, CEILINGS AND/OR FLOORS IN ORDER TO MAINTAIN THE INTEGRITY OF THE FIRE RATED ASSEMBLY. THE FIRE CAULKING SHALL BE MANUFACTURED BY HILTI.
21. FIRE STOP PUTTY PADS SHALL BE INSTALLED AROUND ALL OUTLET AND SWITCH BOXES THAT ARE LOCATED ON PARTY WALLS AND/OR FIRE RATED WALLS OR CEILING ASSEMBLIES. PUTTY PADS SHALL BE MANUFACTURED BY HILTI.

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Topsham, Maine 04086
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STATE OF MAINE — FADI BARK No. 11620 — LICENSED PROFESSIONAL ENGINEER

REVISIONS

No.	Description	Date

DESIGN DOCUMENT

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE
PATIENT CARE CENTER
EXTERIOR SHELL

ELECTRICAL LEGEND, NOTES & SCHEDULES

Project Number	12502
Date	04.13.12
Drawn by	JMS
Checked by	VAD JR

E0.01

Scale AS NOTED

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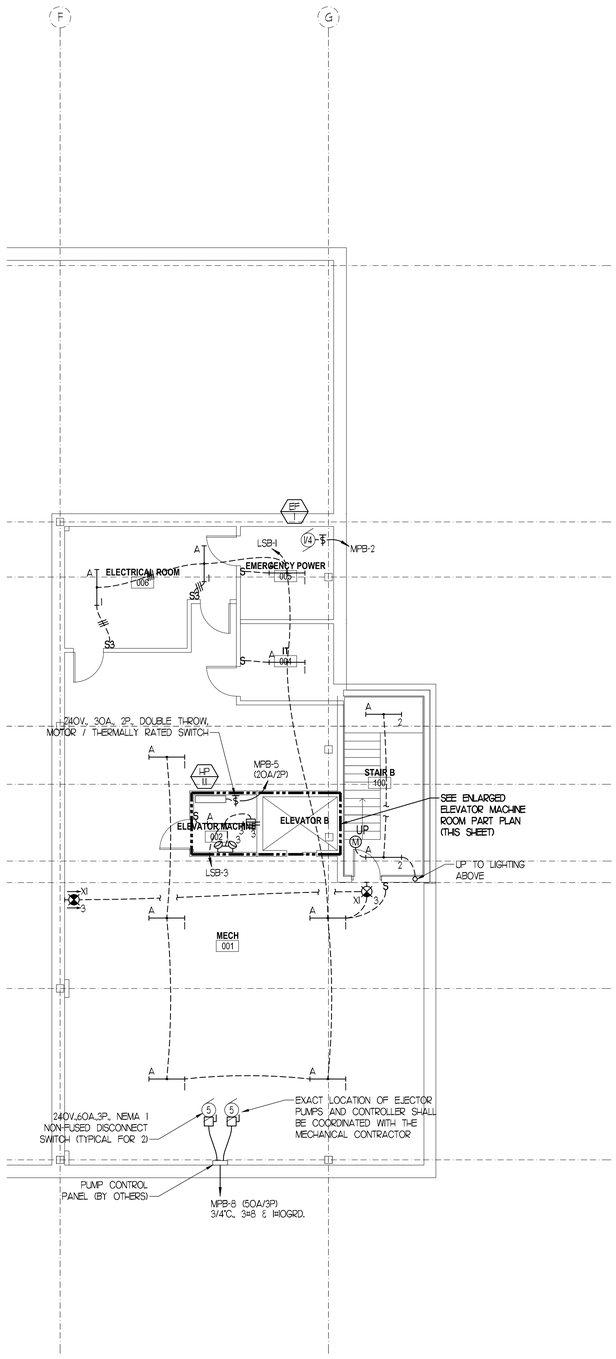

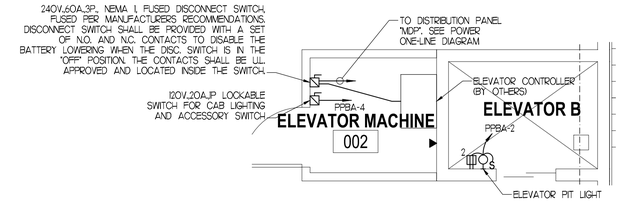

ENLARGED ELEVATOR MACHINE ROOM PART PLAN

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

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STATE OF MAINE — FADI BARK No. 11620 — LICENSED PROFESSIONAL ENGINEER

REVISIONS

No.	Description	Date

DESIGN DOCUMENT

UNIVERSITY OF NEW ENGLAND

PORTLAND, MAINE

PATIENT CARE CENTER

EXTERIOR SHELL

BASEMENT ELECTRICAL PLAN

Project Number	12502
Date	04.13.12
Drawn by	JMS
Checked by	VAD JR

E1.01

Scale 1/8"=1'-0"

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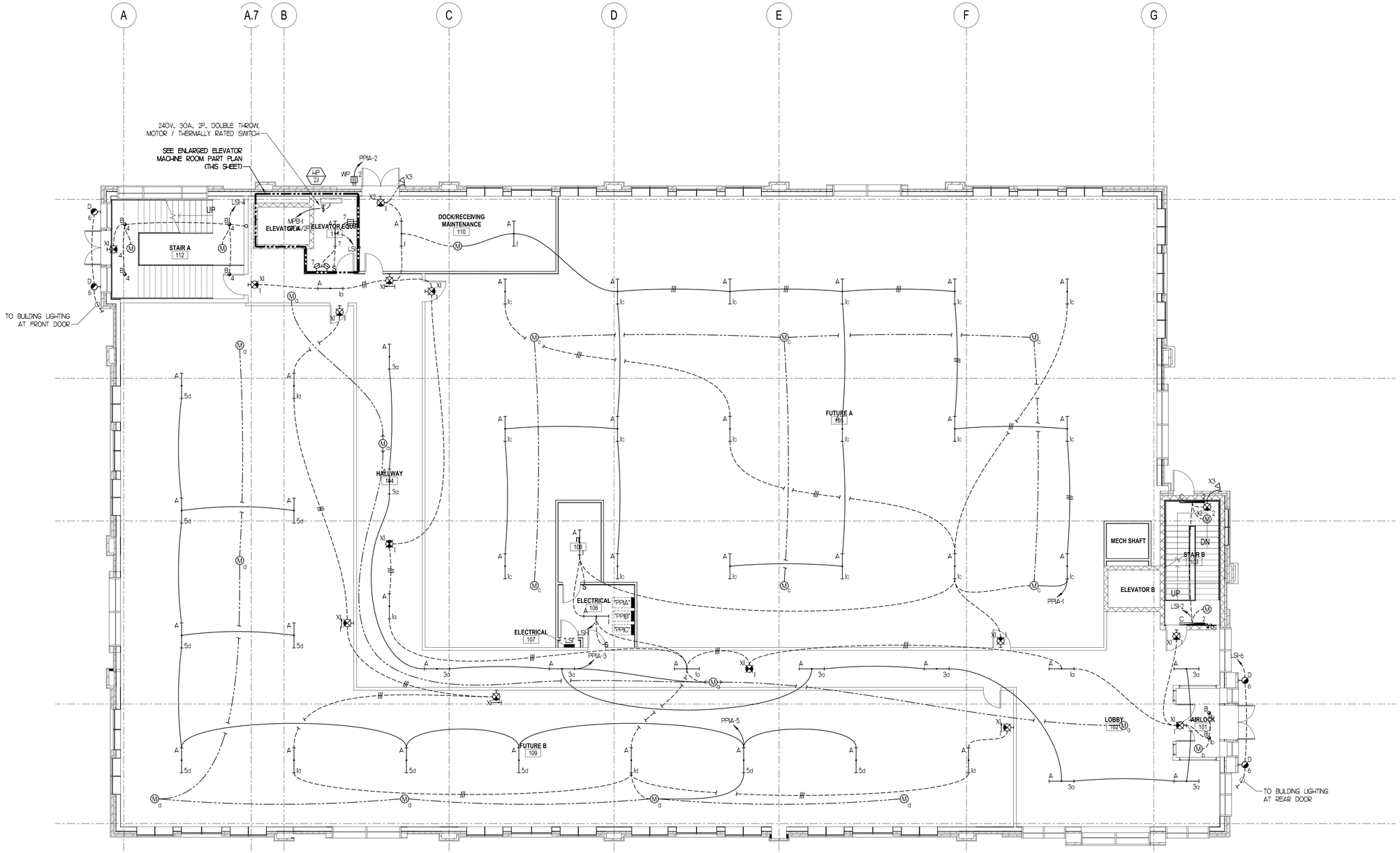

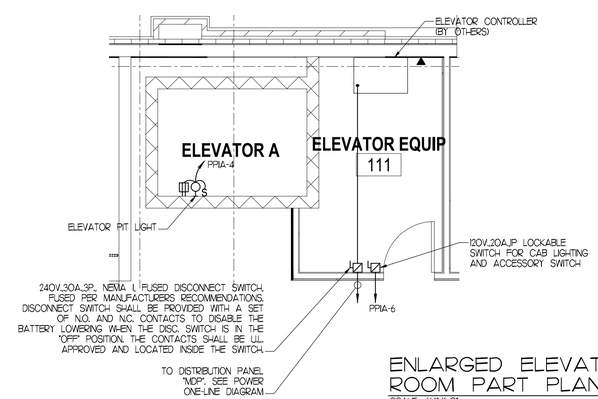

ENLARGED ELEVATOR MACHINE ROOM PART PLAN

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

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STATE OF MAINE
FADI BARK
No. 11520
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PROFESSIONAL ENGINEER

REVISIONS

No.	Description	Date

DESIGN DOCUMENT

UNIVERSITY OF NEW ENGLAND

PORTLAND, MAINE

PATIENT CARE CENTER

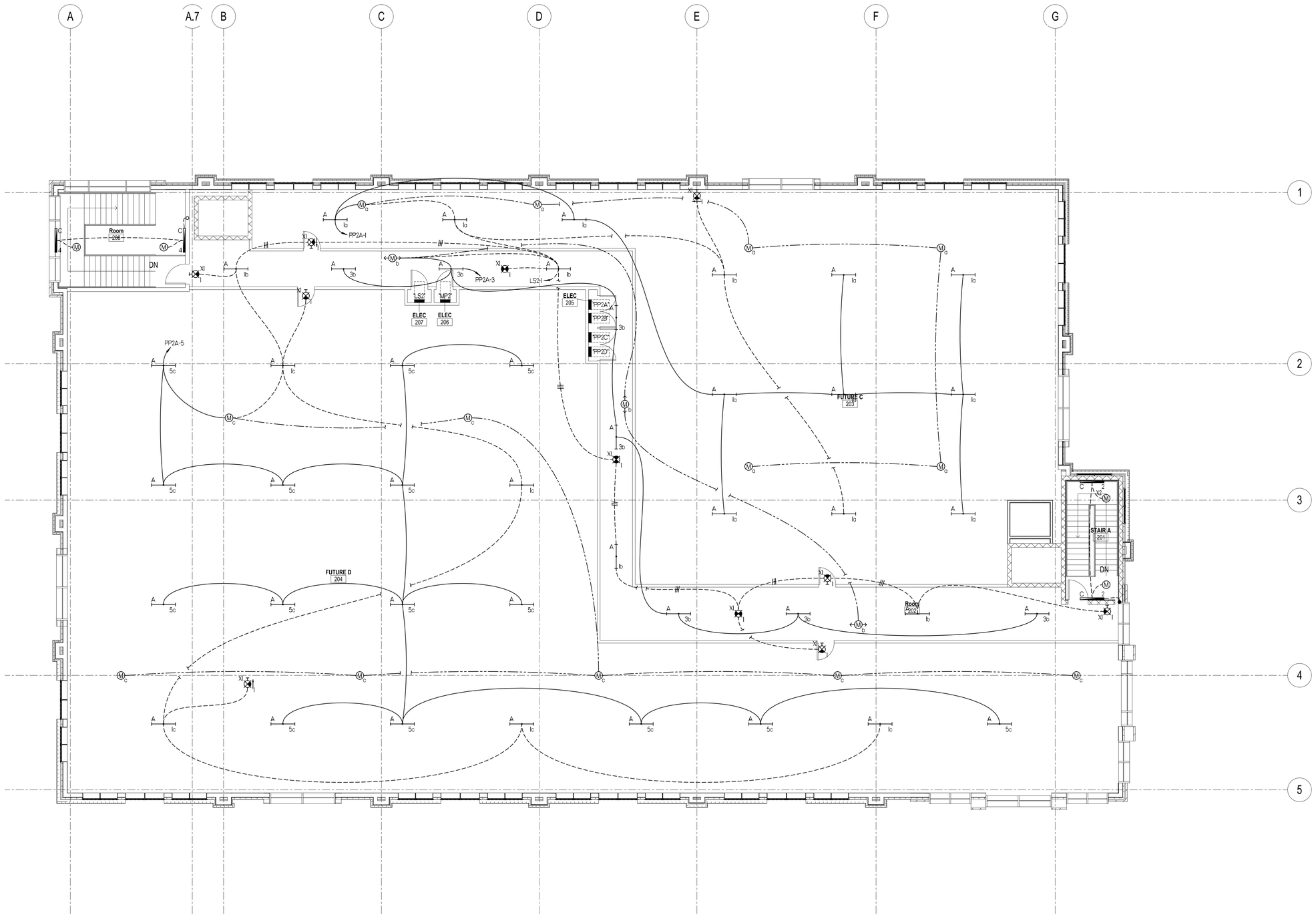
EXTERIOR SHELL

FIRST FLOOR ELECTRICAL PLAN

Project Number	12502
Date	04.13.12
Drawn by	JMS
Checked by	VAD JR

E1.02

Scale 1/8"=1'-0"



IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY

SCALE 1"=1' 3/4"=1' 1/2"=1' 1/4"=1' 1/8"=1' 1/16"=1'

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No.	Description	Date

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PORTLAND, MAINE

PATIENT CARE CENTER

EXTERIOR SHELL

SECOND FLOOR ELECTRICAL PLAN

Project Number	12502
Date	04.13.12
Drawn by	JMS
Checked by	VAD JR

E1.03

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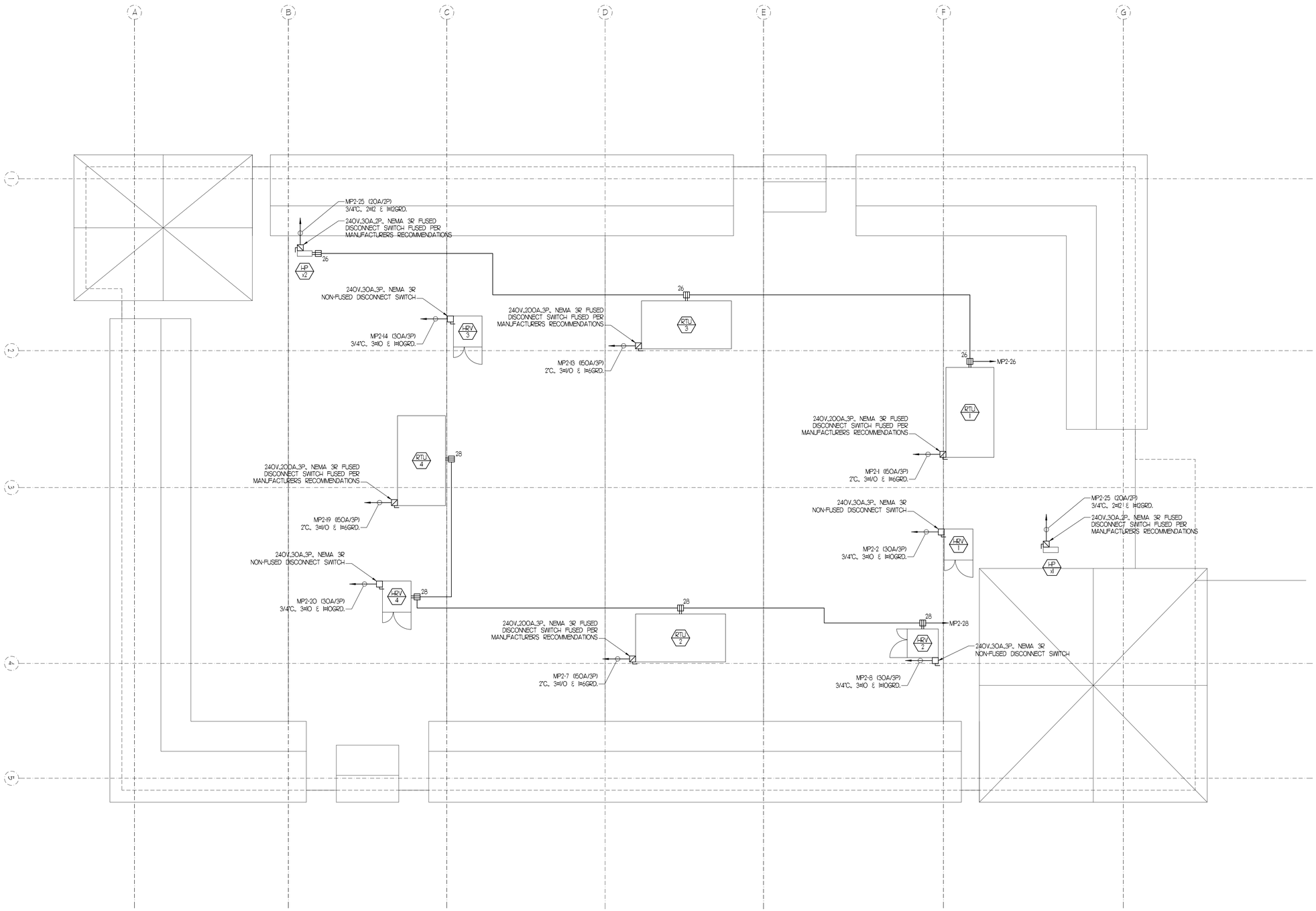

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No.	Description	Date

DESIGN DOCUMENT

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PORTLAND, MAINE

PATIENT CARE CENTER

EXTERIOR SHELL

ROOF ELECTRICAL PLAN

Project Number	12502
Date	04.13.12
Drawn by	JMS
Checked by	VAD JR

E1.04

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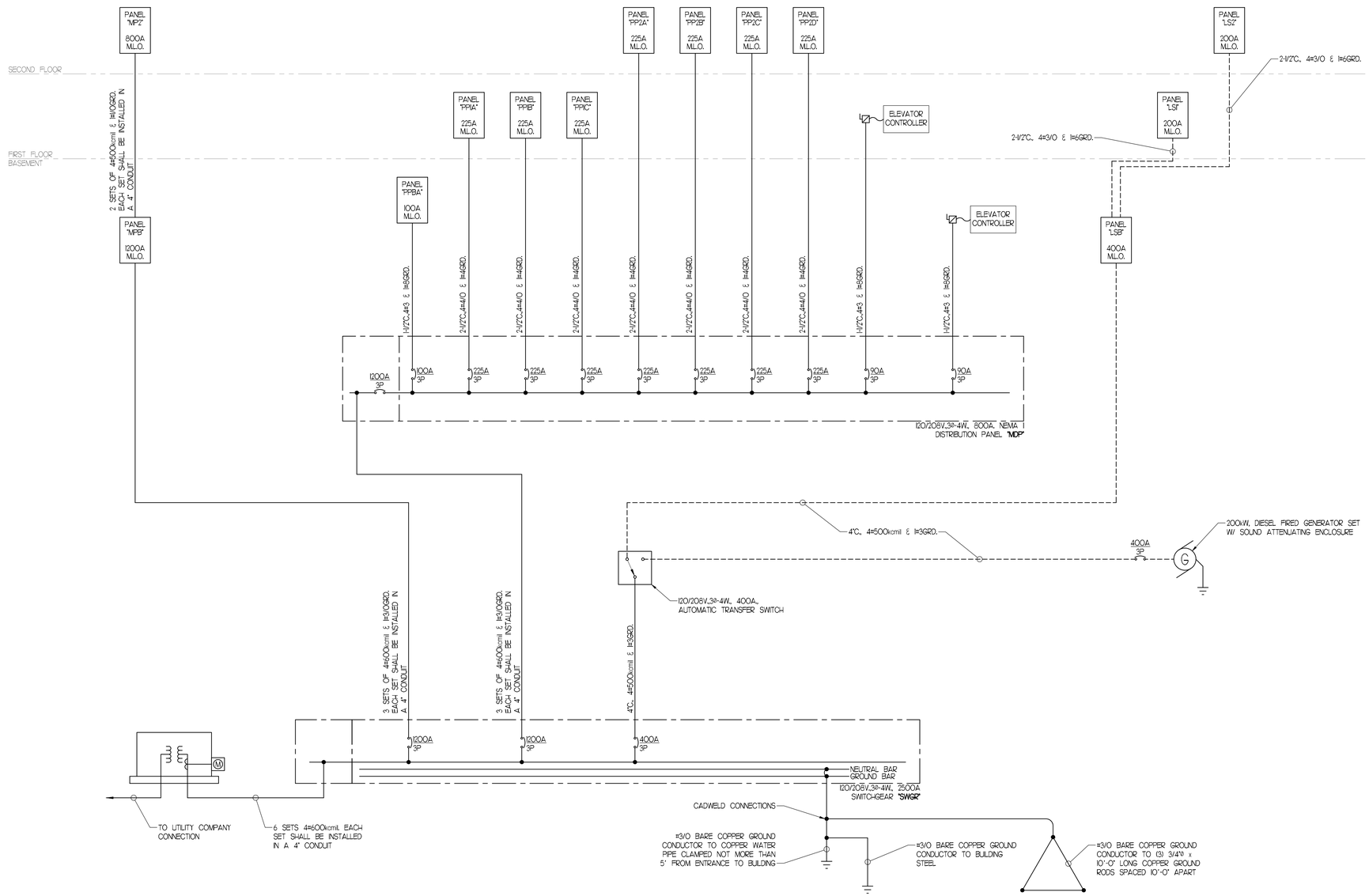

POWER ONE-LINE DIAGRAM

NOT TO SCALE

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STATE OF MAINE
FADI BARK
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No.	Description	Date

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PORTLAND, MAINE
PATIENT CARE CENTER
EXTERIOR SHELL

POWER ONE-LINE DIAGRAM

Project Number	12502
Date	04.13.12
Drawn by	JMS
Checked by	VAD JR

E2.01

Scale NOT TO SCALE

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LOCATION BASEMENT ELECTRIC ROOM — PANEL PPBA — VOLTAGE 120/208V., 3Ø-4W.
MOUNTING SURFACE — RATING 100A — TYPE OF MAIN 100A M.L.O. 42 POLE

DESCRIPTION	VOLTAMPS			FRAME	TRIP	POLES	CKTS		POLES	TRIP	FRAME	VOLTAMPS			DESCRIPTION
	ØA	ØB	ØC									ØA	ØB	ØC	
IT ROOM RECEPTACLES	1500			-	20	1	1	2	1	20	-	1200			ELEVATOR PIT LIGHT & RECEPTACLE
SPARE		·		-	20	1	3	4	1	20	-		500		ELEVATOR CAB LIGHT & ACCESSORIES
SPARE			·	-	20	1	5	6	1	20	-			·	SPARE
SPARE	·			-	20	1	7	8	1	20	-	·			SPARE
SPARE		·		-	20	1	9	10	1	20	-		·		SPARE
SPARE			·	-	20	1	11	12	1	20	-			·	SPARE
SPARE	·			-	20	1	13	14	1	20	-	·			SPARE
SPARE		·		-	20	1	15	16	1	20	-		·		SPARE
SPARE			·	-	20	1	17	18	1	20	-			·	SPARE
SPARE	·			-	20	1	19	20	1	20	-	·			SPARE
SPARE		·		-	20	1	21	22	1	20	-		·		SPARE
SPARE			·	-	20	1	23	24	1	20	-			·	SPARE
SPARE	·			-	20	1	25	26	1	20	-	·			SPARE
SPARE		·		-	20	1	27	28	1	20	-		·		SPARE
SPARE			·	-	20	1	29	30	1	20	-			·	SPARE
SPARE	·			-	20	1	31	32	1	20	-	·			SPARE
SPARE		·		-	20	1	33	34	1	20	-		·		SPARE
SPARE			·	-	20	1	35	36	1	20	-			·	SPARE
SPARE	·			-	20	1	37	38	1	20	-	·			SPARE
SPARE		·		-	20	1	39	40	1	20	-		·		SPARE
SPARE			·	-	20	1	41	42	1	20	-			·	SPARE

LOCATION FIRST FLOOR ELECTRIC ROOM — PANEL PP1C — VOLTAGE 120/208V., 3Ø-4W
MOUNTING SURFACE — RATING 225A — TYPE OF MAIN 225A M.L.O. 42 POLE

DESCRIPTION	VOLTAMPS			FRAME	TRIP	POLES	CKTS		POLES	TRIP	FRAME	VOLTAMPS			DESCRIPTION
	ØA	ØB	ØC									ØA	ØB	ØC	
SPARE	·			-	20	1	1	2	1	20	-	·			SPARE
SPARE		·		-	20	1	3	4	1	20	-		·		SPARE
SPARE			·	-	20	1	5	6	1	20	-			·	SPARE
SPARE	·			-	20	1	7	8	1	20	-	·			SPARE
SPARE		·		-	20	1	9	10	1	20	-		·		SPARE
SPARE			·	-	20	1	11	12	1	20	-			·	SPARE
SPARE	·			-	20	1	13	14	1	20	-	·			SPARE
SPARE		·		-	20	1	15	16	1	20	-		·		SPARE
SPARE			·	-	20	1	17	18	1	20	-			·	SPARE
SPARE	·			-	20	1	19	20	1	20	-	·			SPARE
SPARE		·		-	20	1	21	22	1	20	-		·		SPARE
SPARE			·	-	20	1	23	24	1	20	-			·	SPARE
SPARE	·			-	20	1	25	26	1	20	-	·			SPARE
SPARE		·		-	20	1	27	28	1	20	-		·		SPARE
SPARE			·	-	20	1	29	30	1	20	-			·	SPARE
SPARE	·			-	20	1	31	32	1	20	-	·			SPARE
SPARE		·		-	20	1	33	34	1	20	-		·		SPARE
SPARE			·	-	20	1	35	36	1	20	-			·	SPARE
SPARE	·			-	20	1	37	38	1	20	-	·			SPARE
SPARE		·		-	20	1	39	40	1	20	-		·		SPARE
SPARE			·	-	20	1	41	42	1	20	-			·	SPARE

LOCATION SECOND FLOOR ELECTRIC ROOM — PANEL PP2C — VOLTAGE 120/208V., 3Ø-4W
MOUNTING SURFACE — RATING 225A — TYPE OF MAIN 225A M.C.B. 42 POLE

DESCRIPTION	VOLTAMPS			FRAME	TRIP	POLES	CKTS		POLES	TRIP	FRAME	VOLTAMPS			DESCRIPTION
	ØA	ØB	ØC									ØA	ØB	ØC	
SPARE	·			-	20	1	1	2	1	20	-	·			SPARE
SPARE		·		-	20	1	3	4	1	20	-		·		SPARE
SPARE			·	-	20	1	5	6	1	20	-			·	SPARE
SPARE	·			-	20	1	7	8	1	20	-	·			SPARE
SPARE		·		-	20	1	9	10	1	20	-		·		SPARE
SPARE			·	-	20	1	11	12	1	20	-			·	SPARE
SPARE	·			-	20	1	13	14	1	20	-	·			SPARE
SPARE		·		-	20	1	15	16	1	20	-		·		SPARE
SPARE			·	-	20	1	17	18	1	20	-			·	SPARE
SPARE	·			-	20	1	19	20	1	20	-	·			SPARE
SPARE		·		-	20	1	21	22	1	20	-		·		SPARE
SPARE			·	-	20	1	23	24	1	20	-			·	SPARE
SPARE	·			-	20	1	25	26	1	20	-	·			SPARE
SPARE		·		-	20	1	27	28	1	20	-		·		SPARE
SPARE			·	-	20	1	29	30	1	20	-			·	SPARE
SPARE	·			-	20	1	31	32	1	20	-	·			SPARE
SPARE		·		-	20	1	33	34	1	20	-		·		SPARE
SPARE			·	-	20	1	35	36	1	20	-			·	SPARE
SPARE	·			-	20	1	37	38	1	20	-	·			SPARE
SPARE		·		-	20	1	39	40	1	20	-		·		SPARE
SPARE			·	-	20	1	41	42	1	20	-			·	SPARE

LOCATION FIRST FLOOR ELECTRIC ROOM — PANEL PP1A — VOLTAGE 120/208V., 3Ø-4W.
MOUNTING SURFACE — RATING 225A — TYPE OF MAIN 225A M.L.O. 42 POLE

DESCRIPTION	VOLTAMPS			FRAME	TRIP	POLES	CKTS		POLES	TRIP	FRAME	VOLTAMPS			DESCRIPTION
	ØA	ØB	ØC									ØA	ØB	ØC	
LIGHTING	500			-	20	1	1	2	1	20	-	1500			EXTERIOR RECEPTACLE
LIGHTING		300		-	20	1	3	4	1	20	-		1200		ELEVATOR PIT LIGHT & RECEPTACLE
LIGHTING			300	-	20	1	5	6	1	20	-			500	ELEVATOR CAB LIGHT & ACCESSORIES
SPARE	·			-	20	1	7	8	1	20	-	·			SPARE
SPARE		·		-	20	1	9	10	1	20	-		·		SPARE
SPARE			·	-	20	1	11	12	1	20	-			·	SPARE
SPARE	·			-	20	1	13	14	1	20	-	·			SPARE
SPARE		·		-	20	1	15	16	1	20	-		·		SPARE
SPARE			·	-	20	1	17	18	1	20	-			·	SPARE
SPARE	·			-	20	1	19	20	1	20	-	·			SPARE
SPARE		·		-	20	1	21	22	1	20	-		·		SPARE
SPARE			·	-	20	1	23	24	1	20	-			·	SPARE
SPARE	·			-	20	1	25	26	1	20	-	·			SPARE
SPARE		·		-	20	1	27	28	1	20	-		·		SPARE
SPARE			·	-	20	1	29	30	1	20	-			·	SPARE
SPARE	·			-	20	1	31	32	1	20	-	·			SPARE
SPARE		·		-	20	1	33	34	1	20	-		·		SPARE
SPARE			·	-	20	1	35	36	1	20	-			·	SPARE
SPARE	·			-	20	1	37	38	1	20	-	·			SPARE
SPARE		·		-	20	1	39	40	1	20	-		·		SPARE
SPARE			·	-	20	1	41	42	1	20	-			·	SPARE

LOCATION SECOND FLOOR ELECTRIC ROOM — PANEL PP2A — VOLTAGE 120/208V., 3Ø-4W
MOUNTING SURFACE — RATING 225A — TYPE OF MAIN 225A M.C.B. 42 POLE

DESCRIPTION	VOLTAMPS			FRAME	TRIP	POLES	CKTS		POLES	TRIP	FRAME	VOLTAMPS			DESCRIPTION
	ØA	ØB	ØC									ØA	ØB	ØC	
LIGHTING	·			-	20	1	1	2	1	20	-	·			SPARE
LIGHTING		·		-	20	1	3	4	1	20	-		·		SPARE
LIGHTING			·	-	20	1	5	6	1	20	-			·	SPARE
SPARE	·			-	20	1	7	8	1	20	-	·			SPARE
SPARE		·		-	20	1	9	10	1	20	-		·		SPARE
SPARE			·	-	20	1	11	12	1	20	-			·	SPARE
SPARE	·			-	20	1	13	14	1	20	-	·			SPARE
SPARE		·		-	20	1	15	16	1	20	-		·		SPARE
SPARE			·	-	20	1	17	18	1	20	-			·	SPARE
SPARE	·			-	20	1	19	20	1	20	-	·			SPARE
SPARE		·		-	20	1	21	22	1	20	-		·		SPARE
SPARE			·	-	20	1	23	24	1	20	-			·	SPARE
SPARE	·			-	20	1	25	26	1	20	-	·			SPARE
SPARE		·		-	20	1	27	28	1	20	-		·		SPARE
SPARE			·	-	20	1	29	30	1	20	-			·	SPARE
SPARE	·			-	20	1	31	32	1	20	-	·			SPARE
SPARE		·		-	20	1	33	34	1	20	-		·		SPARE
SPARE			·	-	20	1	35	36	1	20	-			·	SPARE
SPARE	·			-	20	1	37	38	1	20	-	·			SPARE
SPARE		·		-	20	1	39	40	1	20	-		·		SPARE
SPARE			·	-	20	1	41	42	1	20	-			·	SPARE

LOCATION SECOND FLOOR ELECTRIC ROOM — PANEL PP2D — VOLTAGE 120/208V., 3Ø-4W
MOUNTING SURFACE — RATING 225A — TYPE OF MAIN 225A M.C.B. 42 POLE

DESCRIPTION	VOLTAMPS			FRAME	TRIP	POLES	CKTS		POLES	TRIP	FRAME	VOLTAMPS			DESCRIPTION
	ØA	ØB	ØC									ØA	ØB	ØC	
SPARE	·			-	20	1	1	2	1	20	-	·			SPARE
SPARE		·		-	20	1	3	4	1	20	-		·		SPARE
SPARE			·	-	20	1	5	6	1	20	-			·	SPARE
SPARE	·			-	20	1	7	8	1	20	-	·			SPARE
SPARE		·		-	20	1	9	10	1	20	-		·		SPARE
SPARE			·	-	20	1	11	12	1	20	-			·	SPARE
SPARE	·			-	20	1	13	14	1	20	-	·			SPARE
SPARE		·		-	20	1	15	16	1	20	-		·		SPARE
SPARE			·	-	20	1	17	18	1	20	-			·	SPARE
SPARE	·			-	20	1	19	20	1	20	-	·			SPARE
SPARE		·		-	20	1	21	22	1	20	-		·		SPARE
SPARE			·	-	20	1	23	24	1	20	-			·	SPARE
SPARE	·			-	20	1	25	26	1	20	-	·			SPARE
SPARE		·		-	20	1	27	28	1	20	-		·		SPARE
SPARE			·	-	20	1	29	30	1	20	-			·	SPARE
SPARE	·			-	20	1	31	32	1	20	-	·			SPARE
SPARE		·		-	20	1	33	34	1	20	-		·		SPARE
SPARE			·	-	20	1	35	36	1	20	-			·	SPARE
SPARE	·			-	20	1	37	38	1	20	-	·			SPARE
SPARE		·		-	20	1	39	40	1	20	-		·		SPARE
SPARE			·	-	20	1	41	42	1	20	-			·	SPARE

LOCATION FIRST FLOOR ELECTRIC ROOM — PANEL PP1B — VOLTAGE 120/208V., 3Ø-4W.
MOUNTING SURFACE — RATING 225A — TYPE OF MAIN 225A M.L.O. 42 POLE

DESCRIPTION	VOLTAMPS			FRAME	TRIP	POLES	CKTS		POLES	TRIP	FRAME	VOLTAMPS			DESCRIPTION
	ØA	ØB	ØC									ØA	ØB	ØC	
SPARE	·			-	20	1	1	2	1	20	-	·			SPARE
SPARE		·		-	20	1	3	4	1	20	-		·		SPARE
SPARE			·	-	20	1	5	6	1	20	-			·	SPARE
SPARE	·			-	20	1	7	8	1	20	-	·			SPARE
SPARE		·		-	20	1	9	10	1	20	-		·		SPARE
SPARE			·	-	20	1	11	12	1	20	-			·	SPARE
SPARE	·			-	20	1	13	14	1	20	-	·			SPARE
SPARE		·		-	20	1	15	16	1	20	-		·		SPARE
SPARE			·	-	20	1	17	18	1	20	-			·	SPARE
SPARE	·			-	20	1	19	20	1	20	-	·			SPARE
SPARE		·		-	20	1	21	22	1	20	-		·		SPARE
SPARE			·	-	20	1	23	24	1	20	-			·	SPARE
SPARE	·			-	20	1	25	26	1	20	-	·			SPARE
SPARE		·		-	20	1	27	28	1	20	-		·		SPARE
SPARE			·	-	20	1	29	30	1	20	-			·	SPARE
SPARE	·			-	20	1	31	32	1	20	-	·			SPARE
SPARE		·		-	20	1	33	34	1	20	-		·		SPARE
SPARE			·	-	20	1	35	36	1	20	-			·	SPARE
SPARE	·			-	20	1	37	38	1	20	-	·			SPARE
SPARE		·		-	20	1	39	40	1	20	-		·		SPARE
SPARE			·	-	20	1	41	42	1	20	-			·	SPARE

LOCATION SECOND FLOOR ELECTRIC ROOM — PANEL PP2B — VOLTAGE 120/208V., 3Ø-4W
MOUNTING SURFACE — RATING 225A — TYPE OF MAIN 225A M.C.B. 42 POLE

DESCRIPTION	VOLTAMPS			FRAME	TRIP	POLES	CKTS		POLES	TRIP	FRAME	VOLTAMPS			DESCRIPTION
	ØA	ØB	ØC									ØA	ØB	ØC	
SPARE	·			-	20	1	1	2	1	20	-	·			SPARE
SPARE		·		-	20	1	3	4	1	20	-		·		SPARE
SPARE			·	-	20	1	5	6	1	20	-			·	SPARE
SPARE	·			-	20	1	7	8	1	20	-	·			SPARE
SPARE		·		-	20	1	9	10	1	20	-		·		SPARE
SPARE			·	-	20	1	11	12	1	20	-			·	SPARE
SPARE	·			-	20	1	13	14	1	20	-	·			SPARE
SPARE		·		-	20	1	15	16	1	20	-		·		SPARE
SPARE			·	-	20	1	17	18	1	20	-			·	SPARE
SPARE	·			-	20	1	19	20	1	20	-	·			SPARE
SPARE		·		-	20	1	21	22	1	20	-		·		SPARE
SPARE			·	-	20	1	23	24	1	20	-			·	SPARE
SPARE	·			-	20	1	25	26	1	20	-	·			SPARE
SPARE		·		-	20	1	27	28	1	20	-		·		SPARE
SPARE			·	-	20	1	29	30	1	20	-			·	SPARE
SPARE	·			-	20	1	31	32	1	20	-	·			SPARE
SPARE		·		-	20	1	33	34	1	20	-		·		SPARE
SPARE			·	-	20	1	35	36	1	20	-			·	SPARE
SPARE	·			-	20	1	37	38	1	20	-	·			SPARE
SPARE		·		-	20	1	39	40	1	20	-		·		SPARE
SPARE			·	-	20	1	41	42	1	20	-			·	SPARE

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Topsham, Maine 04086
207-449-4275
STATE OF MAINE FADI BARK No. 11520 LICENSED PROFESSIONAL ENGINEER

REVISIONS

No.	Description	Date

DESIGN DOCUMENT

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE
PATIENT CARE CENTER
EXTERIOR SHELL

PANELBOARD SCHEDULES

Project Number 12502
Date 04.13.12
Drawn by JMS
Checked by VAD JR

E2.02

Scale NOT TO SCALE

IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY

LOCATION: BASEMENT EMERG. CLOSET | PANEL: LSB | VOLTAGE: 120/208V., 3Ø-4W
MOUNTING: SURFACE | RATING: 400A | TYPE OF MAIN: 400A M.L.O. 42 POLE

DESCRIPTION	VOLTAMPS ØA	VOLTAMPS ØB	VOLTAMPS ØC	FRAME	TRIP	POLES	CKTS	CKTS	POLES	TRIP	FRAME	VOLTAMPS ØA	VOLTAMPS ØB	VOLTAMPS ØC	DESCRIPTION
EMERGENCY LIGHTING	300			-	20	1	1	2	1	20	-	·			SPARE
ELEVATOR MACHINE ROOM LIGHTING		500		-	20	1	3	4	1	20	-		·		SPARE
SPARE			·	-	20	1	5	6	1	20	-			·	SPARE
SPARE	·			-	20	1	7	8	1	20	-	·			SPARE
SPARE		·		-	20	1	9	10	1	20	-		·		SPARE
SPARE			·	-	20	1	11	12	1	20	-			·	SPARE
SPARE	·			-	20	1	13	14	1	20	-	·			SPARE
SPARE		·		-	20	1	15	16	1	20	-		·		SPARE
SPARE			·	-	20	1	17	18	1	20	-			·	SPARE
SPARE	·			-	20	1	19	20	1	20	-	·			SPARE
SPARE		·		-	20	1	21	22	1	20	-		·		SPARE
SPARE			·	-	20	1	23	24	1	20	-			·	SPARE
SPARE	·			-	20	1	25	26	1	20	-	·			SPARE
SPARE		·		-	20	1	27	28	1	20	-		·		SPARE
SPARE			·	-	20	1	29	30	1	20	-			·	SPARE
SPARE	·			-	20	1	31	32	1	20	-	·			SPARE
SPARE		·		-	20	1	33	34	1	20	-		·		SPARE
SPARE			·	-	20	1	35	36	1	20	-			·	SPARE
SPARE	·			-	20	1	37	38	1	20	-	·			SPARE
SPARE		·		-	20	1	39	40	1	20	-		·		SPARE
SPARE			·	-	20	1	41	42	1	20	-			·	SPARE

LOCATION: MAIN ELECTRIC ROOM | PANEL: MPB | VOLTAGE: 120/208V., 3Ø-4W
MOUNTING: SURFACE | RATING: 1200A | TYPE OF MAIN: 1200A M.L.O. 42 POLE

DESCRIPTION	VOLTAMPS ØA	VOLTAMPS ØB	VOLTAMPS ØC	FRAME	TRIP	POLES	CKTS	CKTS	POLES	TRIP	FRAME	VOLTAMPS ØA	VOLTAMPS ØB	VOLTAMPS ØC	DESCRIPTION
HP-1J	200			-	20	2	1	2	1	20	-	600			EF-1
		200		-	-	-	3	4	1	20	-		·		SPARE
HP-2J			200	-	20	2	5	6	1	20	-			·	SPARE
	200			-	-	-	7	8	3	50	-	4000			EJECTOR PUMPS
SPARE		·		-	20	1	9	10	-	-	-		4000		
SPARE			·	-	20	1	11	12	-	-	-			4000	
SPARE	·			-	20	1	13	14	1	20	-	·			SPARE
SPARE		·		-	20	1	15	16	1	20	-		·		SPARE
SPARE			·	-	20	1	17	18	1	20	-			·	SPARE
SPARE	·			-	20	1	19	20	1	20	-	·			SPARE
SPARE		·		-	20	1	21	22	1	20	-		·		SPARE
SPARE			·	-	20	1	23	24	1	20	-			·	SPARE
SPARE	·			-	20	1	25	26	1	20	-	·			SPARE
SPARE		·		-	20	1	27	28	1	20	-		·		SPARE
SPARE			·	-	20	1	29	30	1	20	-			·	SPARE
SPARE	·			-	20	1	31	32	1	20	-	·			SPARE
SPARE		·		-	20	1	33	34	1	20	-		·		SPARE
SPARE			·	-	20	1	35	36	1	20	-			·	SPARE
SPARE	·			-	20	1	37	38	1	20	-	·			SPARE
SPARE		·		-	20	1	39	40	1	20	-		·		SPARE
SPARE			·	-	20	1	41	42	1	20	-			·	SPARE

LOCATION: FIRST FLOOR EMERG. CLOSET | PANEL: LS1 | VOLTAGE: 120/208V., 3Ø-4W
MOUNTING: SURFACE | RATING: 200A | TYPE OF MAIN: 200A M.L.O. 42 POLE

DESCRIPTION	VOLTAMPS ØA	VOLTAMPS ØB	VOLTAMPS ØC	FRAME	TRIP	POLES	CKTS	CKTS	POLES	TRIP	FRAME	VOLTAMPS ØA	VOLTAMPS ØB	VOLTAMPS ØC	DESCRIPTION
EMERGENCY LIGHTING	450			-	20	1	1	2	1	20	-	500			STAIR LIGHTING
SPARE		·		-	20	1	3	4	1	20	-		500		STAIR LIGHTING
SPARE			·	-	20	1	5	6	1	20	-			500	EXTERIOR EGRESS LIGHTING
ELEVATOR MACHINE ROOM LIGHTING	500			-	20	1	7	8	1	20	-	500			FIRE ALARM CONTROL PANEL
SPARE		·		-	20	1	9	10	1	20	-		500		BI-DIRECTIONAL AMPLIFIER
SPARE			·	-	20	1	11	12	1	20	-			500	N.A.C. BOOSTER
SPARE	·			-	20	1	13	14	1	20	-	·			SPARE
SPARE		·		-	20	1	15	16	1	20	-		·		SPARE
SPARE			·	-	20	1	17	18	1	20	-			·	SPARE
SPARE	·			-	20	1	19	20	1	20	-	·			SPARE
SPARE		·		-	20	1	21	22	1	20	-		·		SPARE
SPARE			·	-	20	1	23	24	1	20	-			·	SPARE
SPARE	·			-	20	1	25	26	1	20	-	·			SPARE
SPARE		·		-	20	1	27	28	1	20	-		·		SPARE
SPARE			·	-	20	1	29	30	1	20	-			·	SPARE
SPARE	·			-	20	1	31	32	1	20	-	·			SPARE
SPARE		·		-	20	1	33	34	1	20	-		·		SPARE
SPARE			·	-	20	1	35	36	1	20	-			·	SPARE
SPARE	·			-	20	1	37	38	1	20	-	·			SPARE
SPARE		·		-	20	1	39	40	1	20	-		·		SPARE
SPARE			·	-	20	1	41	42	1	20	-			·	SPARE

LOCATION: MAIN ELECTRIC ROOM | PANEL: MP2 | VOLTAGE: 120/208V., 3Ø-4W
MOUNTING: SURFACE | RATING: 800A | TYPE OF MAIN: 800A M.L.O. 42 POLE

DESCRIPTION	VOLTAMPS ØA	VOLTAMPS ØB	VOLTAMPS ØC	FRAME	TRIP	POLES	CKTS	CKTS	POLES	TRIP	FRAME	VOLTAMPS ØA	VOLTAMPS ØB	VOLTAMPS ØC	DESCRIPTION
RTU-1	15.6K			-	150	3	1	2	3	30	-	2500			HRV-1
		15.6K		-	-	-	3	4	-	-	-		2500		
			15.6K	-	-	-	5	6	-	-	-			2500	
RTU-2	15.6K			-	150	3	7	8	3	30	-	2500			HRV-2
		15.6K		-	-	-	9	10	-	-	-		2500		
			15.6K	-	-	-	11	12	-	-	-			2500	
RTU-3	15.6K			-	150	3	13	14	3	30	-	2500			HRV-3
		15.6K		-	-	-	15	16	-	-	-		2500		
			15.6K	-	-	-	17	18	-	-	-			2500	
RTU-4	15.6K			-	150	3	19	20	3	30	-	2500			HRV-4
		15.6K		-	-	-	21	22	-	-	-		2500		
			15.6K	-	-	-	23	24	-	-	-			2500	
HP-x1	1650			-	20	2	25	26	1	20	-	1500			ROOFTOP RECEPTACLES
		1650		-	-	-	27	28	1	20	-		1500		ROOFTOP RECEPTACLES
HP-x2			1650	-	20	2	29	30	1	20	-			·	SPARE
	1650			-	-	-	31	32	1	20	-	·			SPARE
SPARE		·		-	20	1	33	34	1	20	-		·		SPARE
SPARE			·	-	20	1	35	36	1	20	-			·	SPARE
SPARE	·			-	20	1	37	38	1	20	-	·			SPARE
SPARE		·		-	20	1	39	40	1	20	-		·		SPARE
SPARE			·	-	20	1	41	42	1	20	-			·	SPARE

LOCATION: SECOND FLOOR EMERG. CLOSET | PANEL: LS2 | VOLTAGE: 120/208V., 3Ø-4W
MOUNTING: SURFACE | RATING: 200A | TYPE OF MAIN: 200A M.L.O. 42 POLE

DESCRIPTION	VOLTAMPS ØA	VOLTAMPS ØB	VOLTAMPS ØC	FRAME	TRIP	POLES	CKTS	CKTS	POLES	TRIP	FRAME	VOLTAMPS ØA	VOLTAMPS ØB	VOLTAMPS ØC	DESCRIPTION
EMERGENCY LIGHTING	450			-	20	1	1	2	1	20	-	500			N.A.C. BOOSTER
SPARE		·		-	20	1	3	4	1	20	-		·		SPARE
SPARE			·	-	20	1	5	6	1	20	-			·	SPARE
SPARE	·			-	20	1	7	8	1	20	-	·			SPARE
SPARE		·		-	20	1	9	10	1	20	-		·		SPARE
SPARE			·	-	20	1	11	12	1	20	-			·	SPARE
SPARE	·			-	20	1	13	14	1	20	-	·			SPARE
SPARE		·		-	20	1	15	16	1	20	-		·		SPARE
SPARE			·	-	20	1	17	18	1	20	-			·	SPARE
SPARE	·			-	20	1	19	20	1	20	-	·			SPARE
SPARE		·		-	20	1	21	22	1	20	-		·		SPARE
SPARE			·	-	20	1	23	24	1	20	-			·	SPARE
SPARE	·			-	20	1	25	26	1	20	-	·			SPARE
SPARE		·		-	20	1	27	28	1	20	-		·		SPARE
SPARE			·	-	20	1	29	30	1	20	-			·	SPARE
SPARE	·			-	20	1	31	32	1	20	-	·			SPARE
SPARE		·		-	20	1	33	34	1	20	-		·		SPARE
SPARE			·	-	20	1	35	36	1	20	-			·	SPARE
SPARE	·			-	20	1	37	38	1	20	-	·			SPARE
SPARE		·		-	20	1	39	40	1	20	-		·		SPARE
SPARE			·	-	20	1	41	42	1	20	-			·	SPARE

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STATE OF MAINE FAIDI BARK No. 11620 LICENSED PROFESSIONAL ENGINEER

REVISIONS

No.	Description	Date

DESIGN DOCUMENT

UNIVERSITY OF NEW ENGLAND
PORTLAND, MAINE

PATIENT CARE CENTER
EXTERIOR SHELL

PANELBOARD SCHEDULES

Project Number	12502
Date	04.13.12
Drawn by	JMS
Checked by	VAD JR

E2.03

Scale: NOT TO SCALE

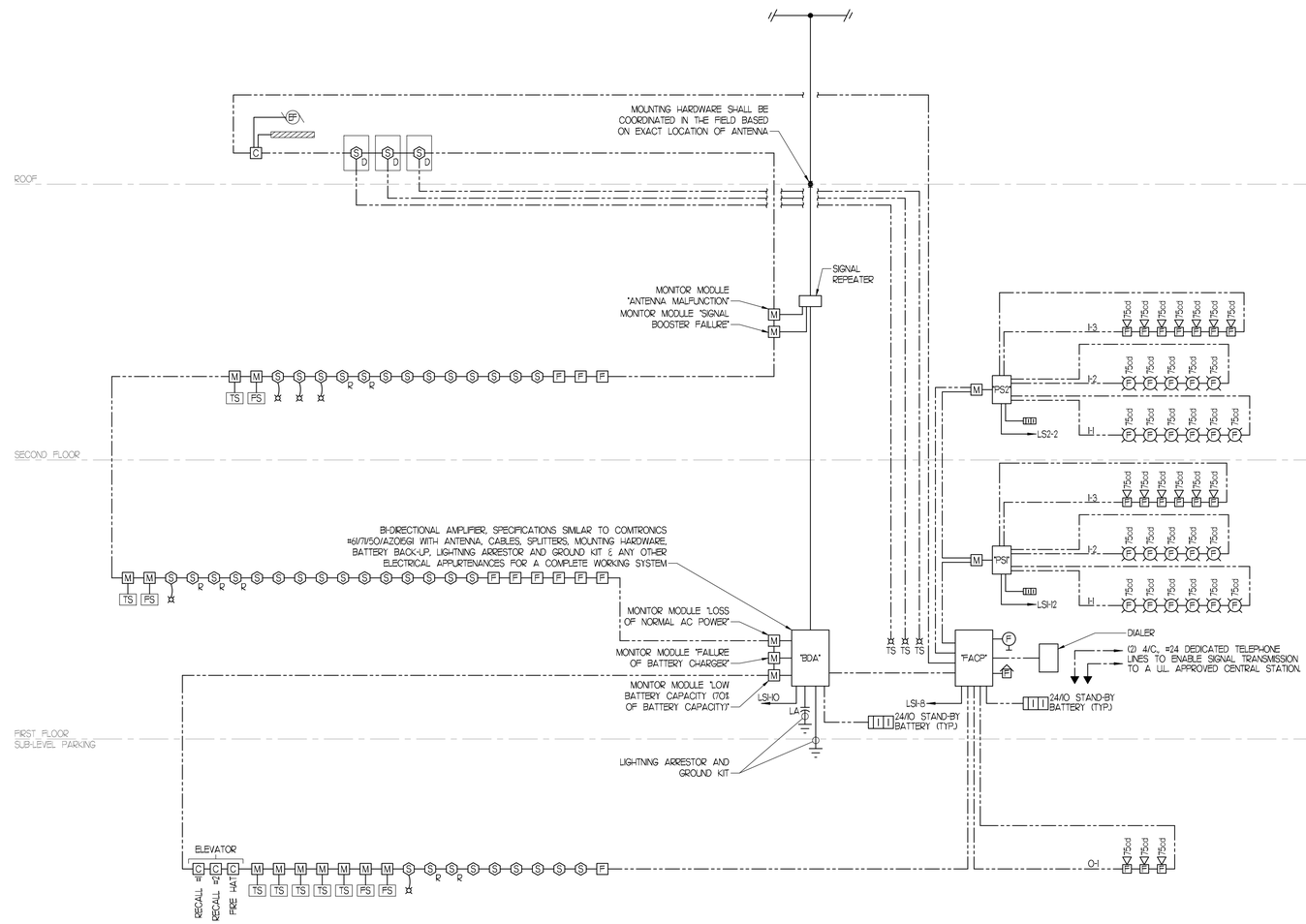
IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY

FIRE ALARM LEGEND

- 75cd — FIRE ALARM SYSTEM ADA TYPE 75cd/75cd HORN/ STROBE UNIT WALL MOUNTED 80" ABOVE FINISHED FLOOR OR 6" BELOW FINISHED CEILING WHICHEVER IS LOWER
- 15cd — FIRE ALARM SYSTEM ADA TYPE 15cd STROBE ONLY UNIT, WALL MOUNTED 80" ABOVE FINISHED FLOOR OR 6" BELOW FINISHED CEILING WHICHEVER IS LOWER
- F — FIRE ALARM SYSTEM ADA TYPE CEILING MOUNTED 75cd/75cd HORN/ STROBE UNIT.
- F — MANUAL PULL STATION, MOUNTED 48" ABOVE FINISHED FLOOR
- S — CEILING MOUNTED PHOTOELECTRIC, SYSTEM TYPE SMOKE DETECTOR
- S R — CEILING MOUNTED PHOTOELECTRIC, SYSTEM TYPE SMOKE DETECTOR. FOR ELEVATOR RECALL. ELEVATOR SHALL PERFORM RECALL UPON INITIATION OF RESPECTIVE DEVICE
- S D — DUCT MOUNTED SMOKE DETECTOR, UPON ACTIVATION, THE RESPECTIVE AIR HANDLING UNIT, AND ASSOCIATED SMOKE AND FIRE DAMPERS SHALL BE DE-ACTIVATED
- H — AUTOMATIC HEAT DETECTOR (135 DEGREES FIXED TEMPERATURE WITH ZONE ADDRESSABLE MODULE
- C — CEILING MOUNTED PHOTOELECTRIC, SYSTEM CARBON MONOXIDE (CO) DETECTOR
- FIRE ALARM SYSTEM MASTER BOX
- "FACP" — FIRE ALARM CONTROL PANEL. "FACP"
- "FAA" — FIRE ALARM ANNUNCIATOR. "FAA"
- "BDA" — FIRE ALARM BI-DIRECTIONAL AMPLIFIER. "BDA"
- F — FIRE ALARM WEATHERPROOF BEACON
- FS — FIRE PROTECTION SYSTEM FLOW SWITCH, FURNISHED AND INSTALLED BY THE SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- TS — FIRE PROTECTION SYSTEM TAMPER SWITCH, FURNISHED AND INSTALLED BY THE SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- PS — FIRE PROTECTION SYSTEM PRESSURE SWITCH, FURNISHED AND INSTALLED BY THE SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- REMOTE INDICATOR
- TS — REMOTE INDICATOR W/ TEST STATION
- M — ADDRESSABLE MONITOR MODULE
- C — CONTROL MODULE
- K — KNOX BOX
- 24/60 HOUR BATTERY
- PS — AUXILIARY POWER SUPPLY 6 AMPS / 24 VOLTS WITH 4 NOTIFICATIONS CIRCUITS. NOTIFIER CAT. NO. FCPS-2456 WITH BATTERY BACK-UP AND INTEGRAL CHARGER
- POWER LIMITED FIRE ALARM CABLE TYPE "FPLP"

FIRE ALARM NOTES:

1. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE ANALOG/ ADDRESSABLE MICRO-PROCESSOR BASED, FIRE ALARM SYSTEM AS INDICATED AND AS SPECIFIED. ALL FIRE ALARM CIRCUIT WIRING SHALL BE POWER LIMITED FIRE ALARM CABLE. AUDIO/VISUAL CIRCUITS SHALL BE 2#14 POWER LIMITED FIRE ALARM CABLE. AS MENTIONED ABOVE. CIRCUITS SHALL BE ARRANGED CLASS "A".
2. ELECTRICAL CONTRACTOR SHALL UTILIZE ALARM VERIFICATION AS A STANDARD FEATURE FOR ALL ADDRESSABLE SMOKE DETECTORS.
3. THE CONTRACTOR, BEFORE INSTALLATION OR PROCUREMENT OF EQUIPMENT, SHALL SUBMIT A SHOP DRAWING OF ALL THE DEVICES BEING SUPPLIED FOR THIS PROJECT. THE SHOP DRAWING SHALL INCLUDE, AS PART OF THE SUBMITTAL PACKAGE, A ONE-LINE DIAGRAM INDICATING HOW THE SYSTEM WILL OPERATE.
4. ALL PULL AND JUNCTION BOXES AS WELL AS 6" OF ANY CONDUIT ENTERING OR LEAVING ANY PULL OR JUNCTION BOX SHALL BE PAINTED RED.
5. FIRE ALARM SYSTEM SHALL BE MANUFACTURED BY NOTIFIER.
6. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND CABLE AS REQUIRED BY ELEVATOR INSTALLER TO FACILITATE ELEVATOR RECALL UPON ACTIVATION OF FIRE ALARM SYSTEM.
7. UPON ACTIVATION OF AIR HANDLING UNIT DUCT SMOKE DETECTOR THE RESPECTIVE UNIT AND ASSOCIATED SMOKE AND FIRE DAMPERS SHALL BE DE-ACTIVATED.
8. UPON ACTIVATION OF ANY OF THE ELEVATOR LOBBY SMOKE DETECTORS OR ELEVATOR CONTROL MODULES, THE ELEVATORS SHALL DROP TO THE MAIN FLOOR. IF THE MAIN FLOOR IS IN AN ALARM CONDITION, THE ELEVATOR SHALL SEEK AN ALTERNATE FLOOR NOT IN ALARM. THE ELEVATORS SHALL BE PROGRAMMED TO SEARCH FOR A FLOOR NOT IN ALARM.
9. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR A SET OF AS-BUILT DRAWINGS OF THE FIRE ALARM SYSTEM. AS-BUILT DRAWINGS SHALL INDICATE THE LOCATION OF THE CONTROL PANEL, ALL FIRE ALARM DEVICES AND WIRING INSTALLED. AS-BUILT DRAWINGS SHALL BE TURNED OVER TO THE OWNER'S PROJECT REPRESENTATIVE.
10. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING THE FIRE ALARM SYSTEM MASTERBOX TO THE CITY LOOP USING ISMA 19-6, 2 PAIR #6 SOLID CONDUCTORS FOR UNDERGROUND SERVICE OR ISMA 20-4, 2 PAIR #6 SOLID CONDUCTORS FOR AERIAL SERVICE.
11. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING THE FIRE ALARM SYSTEM COMMUNICATOR TO AN UL APPROVED CENTRAL STATION USING 4/C #24 CAT3 CABLES.
12. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN ANNUNCIATOR THAT INDICATES ALL ADDRESSABLE DEVICES TO BE INSTALLED AT THE MAIN ENTRANCE.
13. THE FIRE ALARM SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 72. ANY CHANGES TO THE SYSTEM DESIGN SHALL BE PRE-APPROVED BY THE LOCAL FIRE DEPARTMENT AND VINCENT A. DILORIO INC.
14. FIRE ALARM RISER DIAGRAM IS ONLY DIAGRAMMATIC. REFER TO FIRE ALARM PLANS FOR EXACT NUMBER OF DEVICES
15. ALL AUDIO/VISUAL DEVICES SHALL BE SYNCHRONIZED CODE 3, TEMPORAL PATTERN.



FIRE ALARM ONE-LINE DIAGRAM

NOT TO SCALE

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23 Whitney Way
Topsham, Maine 04086
207-449-4275

STATE OF MAINE — FADI BARK No. 11620 — LICENSED PROFESSIONAL ENGINEER

REVISIONS

No.	Description	Date

DESIGN DOCUMENT

UNIVERSITY OF NEW ENGLAND

PORTLAND, MAINE

PATIENT CARE CENTER

EXTERIOR SHELL

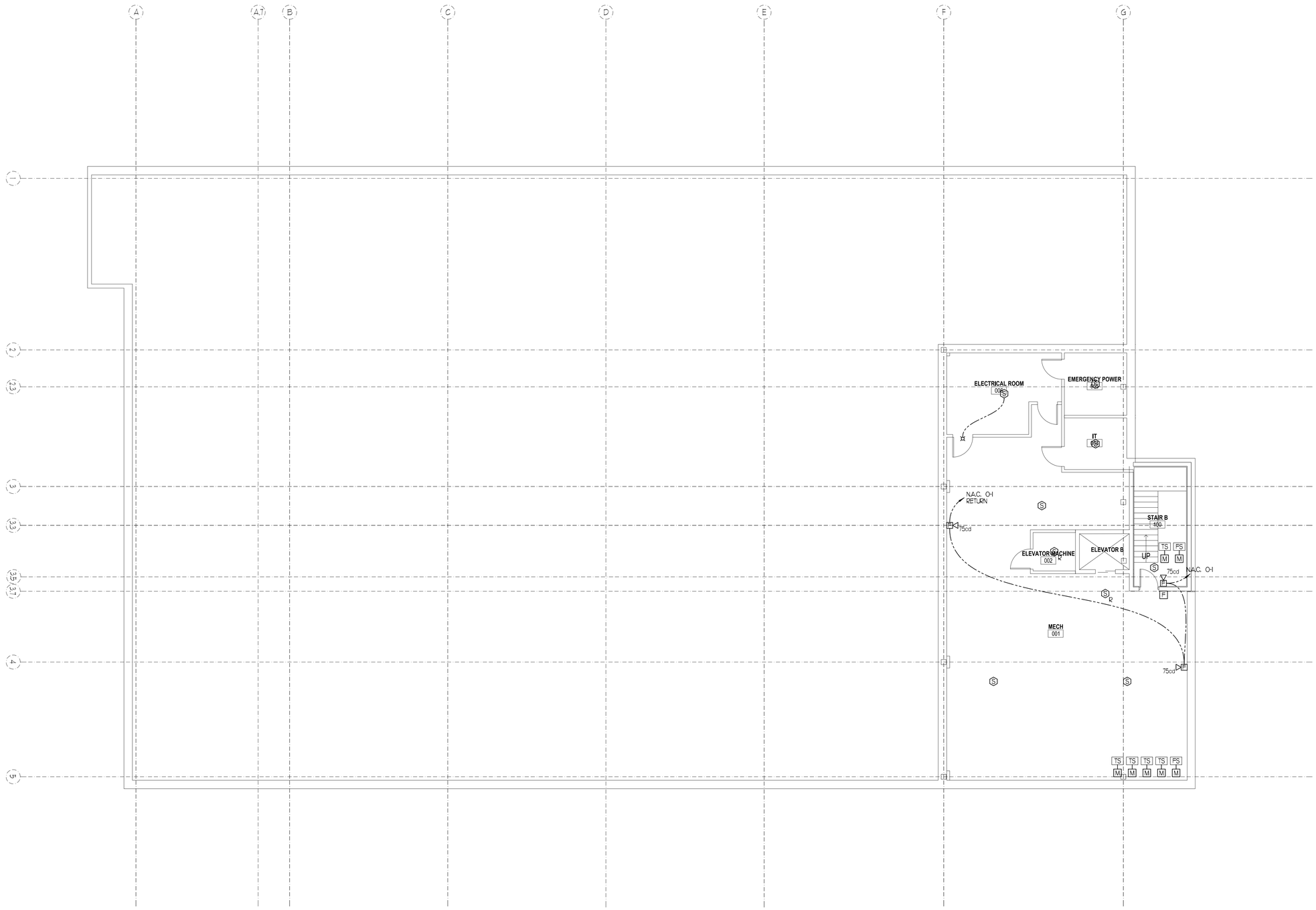
FIRE ALARM LEGEND, NOTES & ONE-LINE

Project Number	12502
Date	04.13.12
Drawn by	JMS
Checked by	VAD JR

FA0.01

Scale NOT TO SCALE

IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY



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No. 11820
LICENSED
PROFESSIONAL ENGINEER

REVISIONS

No.	Description	Date

DESIGN DOCUMENT

UNIVERSITY OF NEW ENGLAND

PORTLAND, MAINE

PATIENT CARE CENTER

EXTERIOR SHELL

BASEMENT FIRE ALARM PLAN

Project Number	12502
Date	04.13.12
Drawn by	JMS
Checked by	VAD JR

FA1.01

Scale 1/8"=1'-0"

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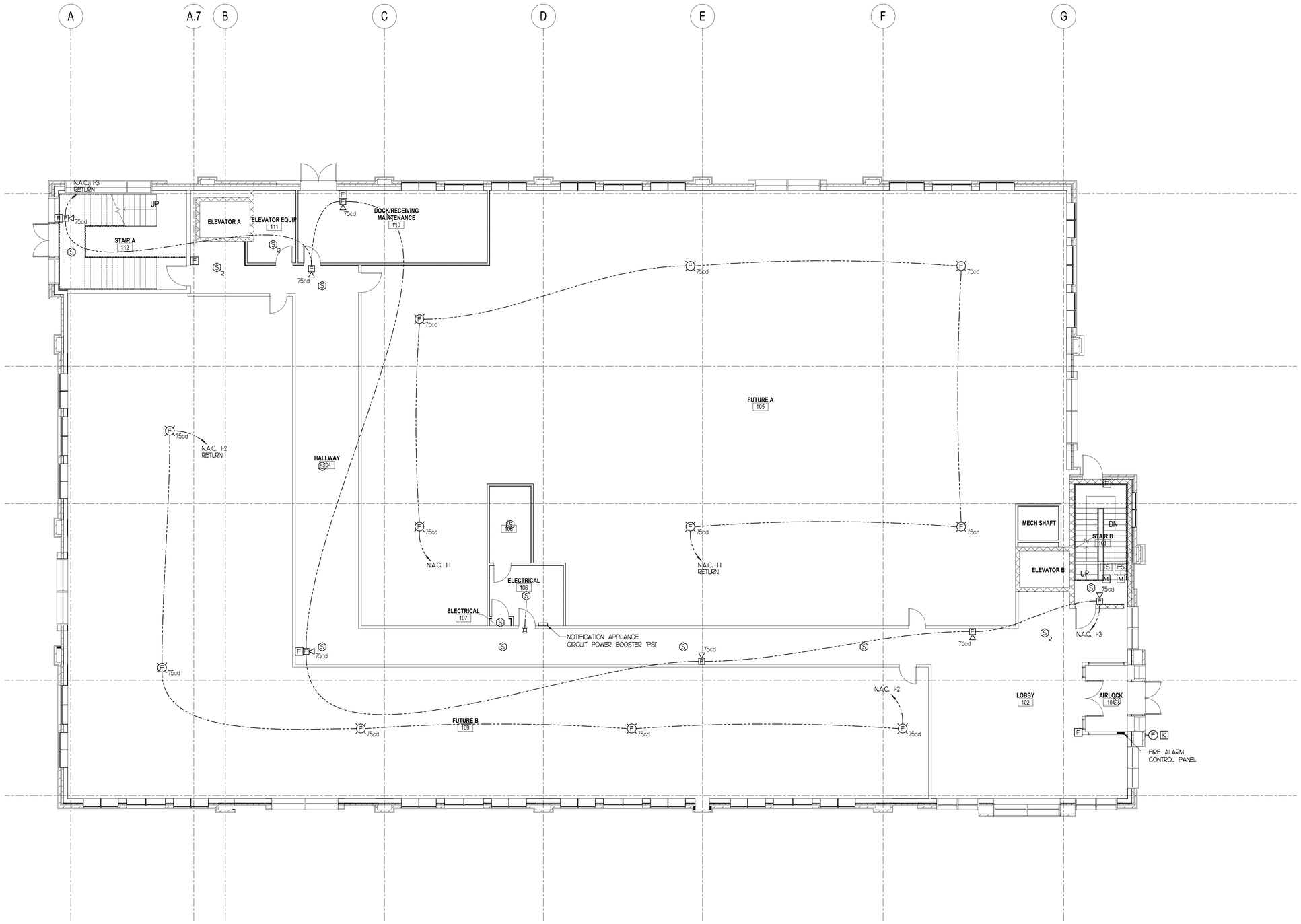

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REVISIONS

No.	Description	Date

DESIGN DOCUMENT

UNIVERSITY OF NEW ENGLAND

PORTLAND, MAINE

PATIENT CARE CENTER

EXTERIOR SHELL

FIRST FLOOR FIRE ALARM PLAN

Project Number	12502
Date	04.13.12
Drawn by	JMS
Checked by	VAD JR

FA1.02

Scale 1/8"=1'-0"

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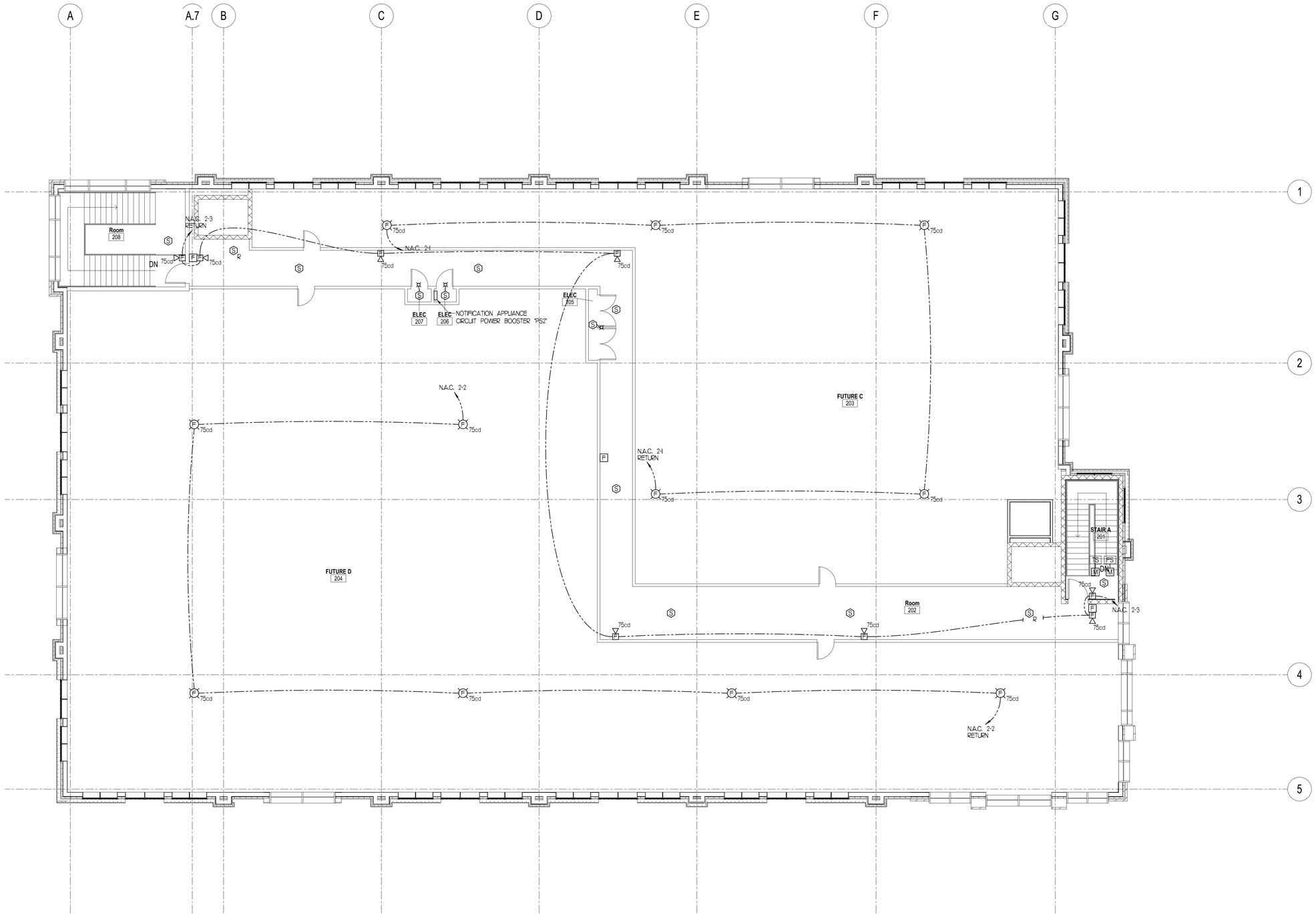

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DESIGN DOCUMENT

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PORTLAND, MAINE

PATIENT CARE CENTER

EXTERIOR SHELL

SECOND FLOOR FIRE ALARM PLAN

Project Number	12502
Date	04.13.12
Drawn by	JMS
Checked by	VAD JR

FA1.03

Scale 1/8"=1'-0"