

ADDENDUM NO.: 8
 DATE OF CMR ADDENDUM: 1/15/13

**Notice of Construction Manager-at-Risk (CMR)
 Addendum
 on behalf of the
 CT Department of Construction Services (CT DCS)**

Project Name:	JM Wright Tech High School
Project Location:	Stamford CT
Project Description:	Additions & Renovations
Project Construction Budget:	50,000,000.00
CT DCS Project Number:	BI-RT-842-CMR

The Construction Manager-at-Risk (CMR) is issuing a **Notice of CMR Addendum** for this State of CT Department of Construction Services (CT DCS) Project. Specific Addendum Information is available as noted below. If you have any questions, please contact the CMR as noted below.

CMR Information:

CMR Firm:	KBE Building Corp
Address:	30 Batterson Park Rd
Contact Name:	Ryan Bentz
Contact Phone Number:	Office: 860-284-7467 Cell: 860-250-1552
Contact Email Address:	rbentz@comcast.net

Addendum Information is available as follows:

CMR Website and/or FTP Site:	Address: ftp.kbebuilding.com User: JMWrightHS Pass: 6w6dwi
Printing Company:	BL Graphics 203-630-2671

Note to CMR Firm: This Form must be completed and emailed to the DCS personnel listed below. DCS will post the form to the State Contracting Portal as "Addendum No. #". **Delete this "Note" prior to emailing the document to DCS.**

- Copies: DCS Project Manager ([insert email address](#)) DCS Process Management (randy.daigle@ct.gov)
 DCS Process Management (peter.babey@ct.gov) DCS Website Management (rebecca.cutler@ct.gov)



**JM Wright Technical High School
Stamford, CT
State Project # BI-RT-842-CMR**

**ADDENDUM #8
January 15, 2013**

Contents of Addendum #8

- 1) Bidders RFI's 23 through 63.
- 2) Construction Managers RFI's 9, 10, 11 & 12
- 3) MEP Coordination & BIM Modeling Exhibit dated 3/8/12
- 4) High Resolution Finish drawings
 - a) F-111 1st Floor Pattern Plan- A1
 - b) F-112 1st Floor Pattern Plan- A2
 - c) F-113 1st Floor Pattern Plan- A3
 - d) F-114 1st Floor Pattern Plan- B1
 - e) F-115 1st Floor Pattern Plan- B2
 - f) F-121 2nd Floor Pattern Plan- A1
 - g) F-122 2nd Floor Pattern Plan- A2
 - h) F-123 2nd Floor Pattern Plan- A3
- 5) Email clarification sent from NCA concerning Brick dated 1/14/13.

- **PLEASE NOTE: Revised Invitation to Bidders dated 1/10/13 found in Addendum #7 has changed the bid date for all packages except for the Demolition and Abatement package from January 16, 2013 to January 23, 2013.**

1/15/12

J.M. Wright Technical High School

BIDDERS Request for Information Log

Question 23: (KR 01/07/13)

Drawing A-340 shows no column covers on exterior columns. Drawing A-602 shows exterior beyond, which is it?

Response: 01 / 10 / 13

Drawing A-340 is correct no Column covers.

Question 24: (KR 01/07/13)

Drawing S205 does not provide a size for the exterior tube columns. Can you provide a size?

Response: 01/10/13

Exterior tube columns are not required, therefore no size is necessary.

Question 25: (KR 01/07/13)

In what Bid Package are the Acoustical Equipment Screen Walls called out? They are located on the roof at the chillers and AHU'S 4 & 5 (Specification Section 08 92 00)

Response: (KBE 01/10/13)

The acoustical equipment screen walls are located in the General Trades Package BP – 002.25.

Question 26: (JJ Curran & Sons) 01/02/13

Who is providing dehumidification and conditioned air to facilitate the gymnasium floor installation?

Response:

The Construction Manager will provide condition air, dehumidification and lighting for the gym area to facilitate the gymnasium floor installation.

Question 27: (JJ Curran 01/02/13)

Please be advised when 33/32" maple flooring is installed in lieu of 25/32" maple flooring, the DIN Rating cannot be achieved by any listed Manufacturer.

Response: (NCA 01/09/13)

Spec 09 64 66 Wood Athletic Flooring: 25/32" Finished Maple Layer thickness is acceptable

Question 28: (JJ Curran& Sons 01/02/13)

It is recommended floor protection be used only when needed and by trades needing it.

Response: 01/10 13

1/15/12

Each subcontractor shall provide material and labor as necessary to protect finish floors from damage via foot traffic or an approved lift. Material required may vary depending on the amount of protection need including but not limited to ram board, masonite and plywood.

Question 29: (JJ Curran & Sons 01/02/13)

096466 Wood Athletic Flooring -2.4A Tongue and Groove Underlayment: Note Neither MFMA Nor the specified Sports flooring manufacturers recommend T& G Plywood, Manufacturer's and MFMA installation instructions call for plywood spacing at all edges to be ¼".

Response: From NCA 01/04/13

Please follow the manufacturer's recommended plywood materials for installation to ensure a warrantable product. Supply and install plywood underlayment/subfloor as recommended.

Question 30: (Silktown Roofing 01/03/13)

BP-002.6 Roofing Specification 076200-2.1.B.3a calls for 3 coats of finish. The standard finish on metal is (2) coats, if (3) coats is applied this becomes a custom installation with an increased cost. Will the manufacturers Standard (2) coat finish be acceptable?

Response: From NCA 01/10/13

Please apply (3) coats of finish as stated in specification section 076200- 2.1B.3a.

Question 31: (Acme Electric Co.01/03/13)

Typical transformers details show seal-tite being used for connections. All transformers are indoor, can Greenfield be used (as allowed by Code)?

Response: From KBE 01/10/13

No, Greenfield is not allowed please use seal-tite as indicated in the specifications and contract documents.

Question 32: (Acme Electric Co. 01/03/13)

Emergency Lights: drawing E702 Detail # 5, Specs call for Class II wiring #10. Can this be plenum rated cable?

Response: (KBE 01/10/13)

Please use Class II wiring #10 is indicated in detail #5 on E702 as well as the specification.

Question 33: (Acme Electric Co. 01/03/13)

Branch Lighting Drawings show fixtures being looped, can we use MC to loop between fixtures in the classrooms rather than running EMT to the classrooms from electrical panel?

Response: (KBE 01/10/13)

Please install fixtures and wiring per the contract documents, per note #5 on drawing E-123 MC cable lengths shall be limited to 6' all other wiring shall be in conduit.

Question 34: (Acme Electric Co. 01/03/13)

Who is responsible for excavation and backfill for Electrical Site Conduits?

1/15/12

Response:

The site contractor is responsible for the excavation and backfill of the site conduits but the electrical subcontract is responsible to layout and coordinate work with the site contractor.

Question 35:

Who is responsible for concrete encasement of the electrical primary?

Response:

The site contractor is responsible to excavate and backfill, the concrete subcontractor is responsible to pour the concrete and the electrical subcontractor is responsible for the layout, installation and coordination of the pipe.

Question 36:

Who is responsible for Concrete Bases?

Response:

The Site Contractor is responsible to excavate and install the bases but the electrical subcontractor is required to coordinate anchor bolt locations and provide the anchor bolts with rough in for conduits.

Question 37:

Who is responsible for saw cutting floor for secondary service conduits?

Response:

The Demo and Abatement Contractor is responsible for the coordination and saw cutting of the secondary service conduits.

Question 38:

Who is responsible for sealing roof penetrations?

Response:

All trades are responsible for temporarily patching any penetration made within their scope of work until the roofing contractor can permanently patch and seal the roof.

Question 39:

Are the VFD'S and starters provided by the equipment supplier?

Response:

Furnish and install as specified in the specifications & Contract documents. Connection to equipment provided by the Electrical Subcontractor.

Question 40:

Who is responsible for removal of old light pole bases and transformer pads?

Response:

1/15/12

The removal of the old light pole bases and transformer pads is the responsibility of Site Contractor

Question 41:

Who is responsible to supply and install new transformer pads and bollards?

Response:

The Site Contractor is responsible to supply and install all of the new transformer pads and bollards.

Question 42:

Who is responsible to pour the Housekeeping Pads?

Response:

The Concrete Contractor is responsible to pour the Housekeeping pads and coordinate the with site contractor.

Question 43:

Who is responsible to supply and install the electrical precast manhole?

Response:

The Site Contractor is responsible to supply and install the electrical precast manhole and coordinate with the electrical subcontractor.

Question 44:

Who is responsible for Utility Company charges related to the temporary and new Services?

Response:

The Construction Manager is responsible to pay for and coordinate temporary and new services.

Question 45:

Is the Construction Manager responsible for electric usage?

Response: From KBE 01/ 10 /13

Yes, the Construction Manager is responsible to pay for the electrical usage.

Question 46:

On Branch circuit wiring, can neutrals be shared as allowed by Code?

Response: From KBE 01/10/13

No, Follow specifications Section 260519 Building Wire and Cable Page 2 of 4 3.2 Item D

Question 47 :

1/15/12

Bid Security Reads and shall be in the amount of no less than five percent but the Notice to Bidders reads 10%. Please clarify.

Response:

Bidders security shall be in the amount of no less than ten percent (10%).

Question 48: (JJ Curran 01/02/13)

Which Bid package furnishes and installs the moisture mitigation and cementitious underlayment in the Gymnasium?

Response: From KBE 01/10/13

The moisture mitigation and cementitious underlayment in the gymnasium can be found in the Wood Athletic Flooring package BP -002.12.

Question 49: (JJ Curran 01/02/13)

Please furnish Construction Schedule for BP-002.12 Wood Athletic Flooring

Response: From KBE 01/10/13

The construction schedule can be found in Addendum #5.

Question 50: (Silktown Roofing 01/02/13)

Drawings A-151 to A-155 shows roof slopes at ½” per foot and specification 075419-2.9a. taper insulation indicates ¼” per foot. Please clarify which is correct or if existing decks already slope.

Response:

Roof slopes to be ½” per foot

Question 51: (Mega Mechanical 01/10/13)

Bid package 2.23 clearly indicates that this subcontractor is responsible for cored penetrations through existing walls. However, it does not indicate who will be responsible for square or rectangular duct penetrations. Please advise which bid package is to include this work.

Response: (KBE 01/10/13)

All subcontractors are responsible for their own coordination of penetrations located in existing walls.

Question 52: (Acorn Glass Inc. 01/04/13)

1/15/12

Div. 086300 Engineered Exterior Canopy System and Div. 084523 Translucent fiberglass sandwich panel wall systems which calls for Factory Mutual Global –Test Data which makes Kalwall the only Manufacturer that has this testing. Please verify if the other Manufacturers with equal products but without this testing will be acceptable

Response : (From KBE 01/10/13)

Please reference addendum # 7 item, all specified manufactures are allowable provided the performance criteria are equal or greater than the basis of design.

Question 53: (Acorn Glass Inc. 01/04/13)

Bid Package 002.10 Glass and Glazing has Metal Composite Panel and Insulated metal panel. Drawing A-602 Detail F6 also has Prefinished Interior Panel Systems. Please verify that this is picked up under another Bid Package.

Response: (KBE 01/04/13)

This is correct, Metal Composite Panel and Insulated Metal Panel are in Glass and Glazing scope where the Prefinished Interior Panel Systems are in the Millworks scope of work

Question 54: (Acorn Glass Inc. 01/04/13)

Details E1, E2, F1,F2 and F6 on A-332 call for 18ga Closure Pieces.

Response: From KBE 01/10/13

The 18ga material found in these details shall be supplied and installed by the Glass and Glazing subcontractor.

Question 55: (Acorn Glass Inc. 01/04/13)

Firesafeing at floor slab at Curtain wall Assembly is in the Glass & Glazing Bid Package as well as Package 002.27 Who owns this Item?

Response: From KBE 01/10/13

Glass and Glazing Bidder shall provide and install Firesafeing at curtain wall floor slabs.

Question 56:

Is ceramic tile required behind locations at corridor lockers & toilet room lockers?

Response:

No, ceramic tile is not required behind lockers in the corridors or lockers in toilet rooms.

Question 57: (Atlantic)

Ceramic tile scope of work calls for removal of paint on masonry walls. This does not come under our jurisdiction within our union. This should be part of demolition or paint scope. Please clarify.

Response:

Paint removal is a part of the demolition & abatement scope, please reference key note #1 on Demo drawings D-111 through D-123.

Question 58: (Andron Const. Corp.)

1/15/12

Reference is made to the fact that the trade contract will be with CMR. Please provide the CMR Form of Contract for review.

Response: From KBE 01/11/13

The contract template is contained within the bid package

Question 59:

Volume 1 Section 01 11 00 states that the CM is responsible for site logistics and phasing plans. Please provide these so that we can determine if they will have an impact on the performance of the work in our bid packages

Response: (KBE 01/11/13)

Logistics Plan is found in Addendum #1 and Phasing plan in Addendum #5.

Question 60:

Volume 1 Section 01 32 16 indicates that the Cm will submit a timeline and a base CPM schedule No Project Schedule has been provided with the documents. Please provide an overall time line and milestone schedule to allow us to determine the work days available for our bid packages.

Response: (KBE 01/11/13)

Schedule and Phasing Plan is found in Addendum #5

Question 61: (ThyssenKrupp Elevator 01 /10/13)

Scope of work item E says to furnish and install new doors frames and sills, this will require full demolition by others and is not in the specifications, please confirm if this scope is required or if we are to provide new doors and leave the sills and have existing frames wrapped in stainless.

Response: (KBE / NCA)

Confirmed. Elevator Subcontractor shall provide new Doors only. Existing sills are to remain. Elevator subcontractor shall provide and install stainless steel to wrap existing frames.

Question 62:

Who is Responsible for patching holes from removed outlets, switches and electric panels?

Response:

The Masonry Subcontractor is responsible for the patching of the removed fire alarm, electrical devices and electrical panels.

1/15/12

Questions 63:

Do you know if the block insulation was removed from the spec, or the location in which it is to be installed?

Response:

The Block insulation is in specs and is to be used at exterior block walls at both new vestibule entries.

RFI Details



Project Name	J.M.Wright RVTS - Add & Renovations	Project Number	BI-RT-842
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RFI #	PC - 009	Gas Main Location Section C2 West Elevation	1/11/2013
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Discipline:	Category:	Civil / Sitework	Priority:	High
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To Company	Attention	Author Company	Authored By
		KBE Building Corporation	Ryan Bentz

Question	Due: 1/21/2013	Answer
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A meeting was held on Site Wednesday 01/09/13 with Yankee Gas and Yankee Gas found that the proposed gas meter location was not acceptable.

KBE and NCA reviewd the location and determined a screen wall could be modified to accommodate the metering by creating a 13 foot clear wall from East to West for the proposed screen wall location.

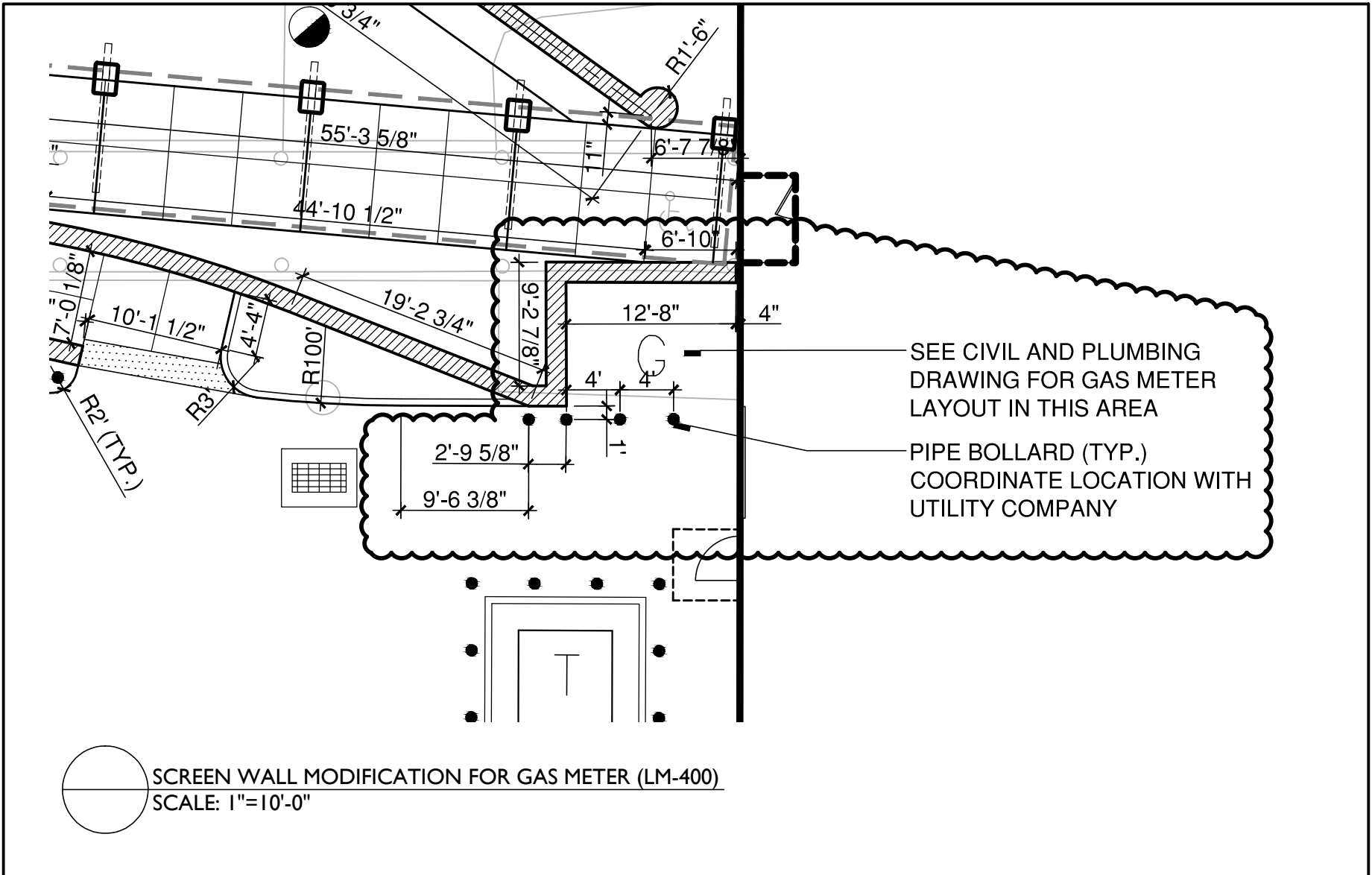
Please provide revised drawing of screen wall and bollards to protect metering.

Revision made. Sketch attached (SKL-01)

Proposed Solution

Impact: **Scope of Work** **Schedule** **Cost**

Z:\2011\024\Main\SKL-01-1024E1.dwg 01/14/2013 4:57:44 PM JMcDonnell



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RENOVATIONS AND ADDITIONS TO
 J.M. WRIGHT TECHNICAL HIGH SCHOOL
 120 BRIDGE STREET
 STAMFORD, CT
 STATE PROJECT NO. BI-RT-842

NCA PROJECT NO.
 05011

DATE: 01/14/13

SKL-01

RFI Details



Project Name	J.M.Wright RVTS - Add & Renovations	Project Number	BI-RT-842
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RFI #	PC - 0010	Tile Spec- Thinset Product	1/11/2013
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Discipline:	Category:	Architectural	Priority:	High
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To Company	Attention	Author Company	Authored By
		KBE Building Corporation	Ryan Bentz

Question	Due: 1/17/2013	Answer
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Item -- 093000 Tile Specification lists TCA F113 Tile installation which is a thinset without waterproofing yet waterproofing is listed as a product. If waterproofing is required it should be TCAF122. Is waterproofing required. Please clarify

Waterproofing required. TCA # should be F122.

Proposed Solution

Impact: **Scope of Work** **Schedule** **Cost**

RFI Details



Project Name	J.M.Wright RVTS - Add & Renovations	Project Number	BI-RT-842
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RFI #	PC - 0011	Wire Mesh Partitons	1/11/2013
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Discipline:	Category:	Architectural	Priority:	High
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To Company	Attention	Author Company	Authored By
		KBE Building Corporation	Ryan Bentz

Question	Due: 1/16/2013	Answer
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Please reference Drawings A-021, A-115 and A-118. Please confirm doors B181, B182, C117B, & C177C and related partitions are Wire Mesh as specified in Section 102213, and not Chain Link Enclosure as noted on the drawings. The Wire Mesh Partition specification doesn't seem suitable for exterior applications.

The door numbers indicated (I believe C117B should be C177B) are to be chain link doors ("gates") and not Wire Mesh Partitions.

Proposed Solution

Impact: **Scope of Work** **Schedule** **Cost**

RFI Details



Project Name	J.M.Wright RVTS - Add & Renovations	Project Number	BI-RT-842
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RFI #	PC - 0012	Category	Elevator Questions	Due Date	1/11/2013
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Discipline:	Category:	Architectural	Priority:	High
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To Company	Attention	Author Company	Authored By
		KBE Building Corporation	Ryan Bentz

Question	Due: 1/16/2013	Answer
1) 2.1,C.2- Spec calls for a starter only, is the intent to re-use the existing controller? 2) 2.1,C.6a -Please advise on the reveal finish which is the space between the raised vertical panels. Typically this will be either the baked enamel or stainless. 3) 2.1,C.6.c - The car top is the canopy, Replacing this will require dismantling of the cab. Is it acceptable to leave the existing canopy as the intent of the spec is to just provide interior finishes. 4) 2.1,C6.h - The elevator currently has aluminum sills in the car and hall. Hall sills are grouted in as part of the building structure. Is it acceptable to leave the existing aluminum sills.		1) Yes, re-use existing controller 2) Reveal finish: stainless steel 3) Leave existing canopy (cab ceiling structure) in place to the extent that lighting can be replaced as specified 4) First floor hall sill should be replaced. Hall floor finish is to be new Resinous Matrix Terrazzo, with approx. 3/8" thickness, which warrants the new sill. Second floor hall sill can remain in place (protected from adjacent construction, cleaned during final cleaning).

Proposed Solution

Impact: Scope of Work Schedule Cost

MEP COORDINATION AND BIM MODELING EXHIBIT

PROJECT: J.M Wright Regional Vocational Technical School, Stamford CT

PROJECT NO: BI-RT-842 CHR

DATE: November 8, 2012

1. GENERAL

1.1. The purpose of 3D MEP Coordination Process, hereinafter referred to as the Coordination Process, is to supplement and improve the traditional MEP coordination process, ultimately improving the entire project delivery. Through the implementation of Building information Modeling (BIM) technologies, KBE Building Corporation, hereinafter referred to as the Construction Manager (CM), intends to enhance visualization, communication, coordination, increase productivity, and maximize efficiency of the subcontractors involved.

1.2. **COORDINATION PARTICIPANTS:** Subcontractors who are required to fully participate in the Coordination Process, hereinafter referred to as the Coordination Team consists of the following subcontractors:

1.1.1. Structural Steel

1.1.2. HVAC

1.1.3. Plumbing

1.1.4. Electrical

1.1.5. Fire Protection

In addition to the above listed subcontractors, the Coordination Team will also include, as needed, the Project Architect, the architect's Consultant Engineers, and the Owner's Representative. The Coordination Process is directed and led by the CM.

Unless deemed necessary, trades other than those listed above are not required to provide 3D models for the Coordination Process, unless specifically invited to do so by the CM. The CM may solicit additional information from other trades to supplement the Coordination process.

1.3. **WORK INCLUDED:** Furnishing all labor, materials, services, equipment, and appliances required for the BIM aspect of this specification in conjunction with design, fabrication, and erection of the project. Subcontractors will be required to attend multiple coordination meetings and revise and resubmit their models until the federated model has been properly coordinated and all clashes have been resolved to the satisfaction of the CM's BIM Manager.

1.4. **PROCESS OVERVIEW:**

1.4.1. On the project the CM will implement a collaborative BIM Process for the coordination of the trades specified in section 1.2 in this exhibit led by the BIM Manager. Section 1.7 "**Model Level Of Detail for Subcontractors**" defines the level of detail of the 3D models for each trade. In this coordination process the respective trades are required to provide models of their scope of work. These models shall be structured and broken down into areas that

correspond with the general sequence of the coordination process with each of these models being represented in one file. The structure of the model will be determined in the Kick off coordination meeting.

- 1.4.2. For the purpose of field installation the subcontractors should consider the signed off, final models as a contract for space. By modeling their components and their scope of work, including access space etc. the subcontractors reserve space. If a conflict arises in the field installation the subcontractor who did not reserve space for their components has to move their components for the subcontractor who did reserve space. Components that are not represented in the model will be installed after the components that are represented in the signed off model.
- 1.4.3. The sequence of the coordination is determined by the CM's BIM Manager and MEP Specialist on the project. In general the traditional sequence of coordination (Ductwork, Pitched Pipe, Pressure Pipe, Electrical, Fire Protection) will be followed. Exceptions to this sequence may be necessary in certain cases and will be determined during the kick-off meeting. The coordination effort for each of the areas will start with a high level kick-off meeting in which high level agreements between the different trades are reached. These agreements may include: general elevation levels for the installation of the different trade, constraints around vertical riser cores, general agreements on the standard cross sections of corridors etc.
- 1.4.4. In the coordination process the CM requires the subcontractors to upload their models on a frequent basis as they are being developed to the agreed upon file sharing platform. Model file uploads may be requested on a frequency that depends on the requirements on the project. This frequent sharing of the work as it is being developed allows the following subcontractors to make themselves familiar with the constraints on the project early and voice possible concerns before the predecessor trades in the coordination effort finalize their work.

1.5. QUALITY ASSURANCE:

- 1.5.1. BIM Coordinator: The subcontractor shall designate a single individual within its organization as its BIM Coordinator. This individual shall be a single point contact with the Subcontractor for all matters related to the Coordination Process and shall have the full **knowledge** and **authority** to manage the Coordination process within the Subcontractor's organization and make all decisions necessary to successfully complete the process and attain the established objectives.
- 1.5.2. Minimum Qualifications: Subcontractor BIM Coordinator must have verifiable experience of a minimum of three (3) fully coordinated 3D projects. The subcontractor must provide the resume of their primary BIM Coordinator to be assigned to the project that will attend weekly meetings.
- 1.5.3. A minimum of a two week transition period will be required if a subcontractor wishes to change their BIM Coordinator prior to project completion. At the discretion of the CM's BIM Manager, the subcontractor will be responsible for the cost of training of the subcontractor's new BIM coordinator to orient them to the project during the two week transition period. The BIM training provider will be selected by the CM for subcontractor's new BIM Coordinator.
- 1.5.4. The CM will maintain meeting minutes and monitor Subcontractor performance against the Coordination Process and Construction Schedules and expedite resolution of noncompliant team members if required.
- 1.5.5. Third party Drafting Consultants: Subcontractors electing to utilize and third party consultant to assist in preparing its 3D model for the Coordination Process, shall submit a resume of qualifications and references of the proposed consultant for the Contractor's review

and approval. The subcontractor is responsible for the consultant who is required to adhere to all Coordination Process requirements.

1.6. SUBMITTALS:

1.6.1. Subcontractors will be required to provide their files in a file format that is compatible with the coordination team for spatial coordination. A kick-off meeting to be held at the beginning of the project will be held to establish all BIM standards specific to the project. The minimum requirements for the model files are the following:

- 1.6.1.1. The project required submittal format for files is Autodesk Revit 2011 (*.rvt) file format with components of the subcontractor's scope represented as 3D family objects. The use of formats other than *.rvt, (ie. *.dwg, dgn, etc.) need to be coordinated with the CM's BIM Manager.
- 1.6.1.2. The coordinate system of the model will be determined in the initial coordination meeting. Verify this coordinate system with the CM's BIM manager prior to developing models.
- 1.6.1.3. The layer names of the submitted model files need to be intuitive for construction practitioners
- 1.6.1.4. Access spaces and clearance spaces represented in the model need to be represented on a layer named **CLEARANCE**.
- 1.6.1.5. **X,Y,Z Coordinate System:** The coordinate systems in the different model files provided by the subcontractor need to comply with the CM's coordinate system that will be issued at the kick-off meeting. This is typically set with the ground level floor at elevation 0'-00" and the X & Y coordinates origin set at the farthest North West project grid line intersection. The subcontractor is responsible for adopting the 0,0,0 location.
- 1.6.1.6. The building elements represented in the model need to be of a granularity that corresponds with the anticipated installation sequence, so that the model can be linked to a schedule and the construction process can be simulated.
- 1.6.1.7. The models for each subcontracting discipline will be developed in zones that are defined by each level of the building. Each model for a given level will contain objects above that levels finish floor elevation and below the next levels finish floor elevation. There must be no overlap between the components represented in different floor levels.
- 1.6.1.8. The subcontractors shall use the 3D models they create and submit during the Coordination Process as the basis of developing their 2D pdf/paper shop drawings.
- 1.6.1.9. The file names of the files that the project participants upload to the file sharing platform will have the following structure:

project_organization_phase_discipline_level_zone_version_status_data-date.rvt

for example:

ABC	ABC BUILDING
ARCH	Architecture
XXX	XXX Company, Inc.
L01	Zones: Level 01 (enter "ALL" here if complete model).
030	The model is approximately 30% complete
2010-08-13	Build Date the model was created and uploaded.

ABC_ARCH_XXX_ALL_030_2010-08-02.rvt

ABC_MECH_XXX_L02_075_2010-08-18.rvt

- 1.6.1.10. File Transfer Standards: The project specific File Transfer Standards and communication protocol will be established during the Coordination Process kick-off meeting and is to be adhered to by Coordination Team.
- 1.6.1.11. Submittal and Coordination Sign-off Drawings: When all spatial interferences and coordination issues have been resolved and a fully coordinated system is achieved, each coordination subcontractor will produce fully annotated installation drawings of their respective systems complete with title blocks appropriate for installation by their field team. One hardcopy, one PDF and one 3D DWF (or approved equivalent) format data file will be submitted for review by the Design team for review of compliance with design intent and approval. Upon approval by the Engineer of record, a copy of the fully coordinated coordination submittal drawings are to be signed by each participant, and will become the official "Coordination Signoff Drawings". The "Coordination Sign-off Drawings" will be stored by the CM on the project site and form the basis for resolution of any future field installation conflicts or disagreements. Components not installed where shown on the "Coordination Sign-off Drawings", or installed but not shown, will be relocated by, and at the expense of the offending party. Cost for rework, re-coordination, or schedule impact required to accommodate components not shown on, or not installed in accordance with the "Coordination Sign-off Drawings" is to be paid by the party in non-compliance.
- 1.6.1.12. Record and As-Built Deliverables: At Project completion "As-Built" conditions shall be incorporated into the electronic BIM files by each participant. A "Record set" of drawings will be created in DWF format. Printed copies will be made of the DWF files as required by project specification. Electronic BIM files will be exported in 3D to "IFC" format and transferred via electronic media (CD, DVD, FTP site) or as required by the CM's BIM Manager. Rendered models will be created by each discipline for inclusion in a comprehensive "Project Master Model" assembled by the CM's BIM manager or other designated party.

1.7. Model Level Of Detail for Subcontractors

The Model Level of Detail (LOD) determines components of the model and how detailed the individual components need to be. During the kick-off meeting the LOD Matrix will be established based on project requirements that list Model elements and minimum required LOD.

The CM may request models in the following sections for each zone be issued as separate files. The file separation would be based on those objects that are easily field moved or flexible in one model and those items that cannot be easily relocated in a separate model.

1.7.1. Mechanical BIM:

A 3D model for all systems included in the HVAC scope of work shall include, at a minimum, the items listed below:

- 1.7.1.1. Ductwork
- 1.7.1.2. Grilles registers
- 1.7.1.3. Dampers
- 1.7.1.4. Access panels
- 1.7.1.5. Air moving equipment
- 1.7.1.6. Diffusers
- 1.7.1.7. Flex duct
- 1.7.1.8. VAV boxes
- 1.7.1.9. Access space for maintenance of installed equipment
- 1.7.1.10. Air Handler Units
- 1.7.1.11. Fans
- 1.7.1.12. Pumps
- 1.7.1.13. Tanks
- 1.7.1.14. Control boxes and panels
- 1.7.1.15. HVAC Piping: All overhead piping, vertical piping in shafts, connections to equipment.
- 1.7.1.16. Heat exchanges
- 1.7.1.17. Hangers and miscellaneous support structure
- 1.7.1.18. Any required clearances
- 1.7.1.19. Any other components that are generally relevant for space coordination

1.7.2. Electrical BIM:

A 3D model for all systems included in the electrical scope of work shall include, at a minimum, the items listed below:

- 1.7.2.1. All conduits 1" and larger
- 1.7.2.2. Any rack of two or more conduits regardless of size
- 1.7.2.3. Transformers
- 1.7.2.4. Switchgear
- 1.7.2.5. Remote Panel Boards
- 1.7.2.6. Generators
- 1.7.2.7. Lights and fixtures
- 1.7.2.8. Electrical pull and circuit boxes
- 1.7.2.9. All cable tray hangers
- 1.7.2.10. Supports
- 1.7.2.11. Raceways
- 1.7.2.12. Hangers and miscellaneous support items
- 1.7.2.13. Any required clearances
- 1.7.2.14. Any other components that are generally relevant for space coordination

1.7.3. Fire Protection:

A 3D model for all systems included in the fire protection scope of work shall include, at a minimum, the items listed below:

- 1.7.3.1. Overhead piping
- 1.7.3.2. Branch connections
- 1.7.3.3. Drops and heads
- 1.7.3.4. Access panels
- 1.7.3.5. Smoke / Heat detectors
- 1.7.3.6. Maintenance clearances
- 1.7.3.7. Vertical Pipes
- 1.7.3.8. Hangers
- 1.7.3.9. Supports
- 1.7.3.10. Any required clearances

1.7.3.11. Any other components that are generally relevant for space coordination

1.7.4. Plumbing:

A 3D model for all systems included in the plumbing scope of work shall include, at a minimum, the items listed below:

- 1.7.4.1. Overhead piping
- 1.7.4.2. Vertical piping between floors
- 1.7.4.3. Connections to equipment and fixtures
- 1.7.4.4. Tanks
- 1.7.4.5. Water Treatment Equipment
- 1.7.4.6. Floor Drains
- 1.7.4.7. Maintenance and access clearances
- 1.7.4.8. Hangers
- 1.7.4.9. Fixtures
- 1.7.4.10. Supports
- 1.7.4.11. Any required clearances
- 1.7.4.12. Any other components that are generally relevant for space coordination

1.7.5. Steel and Miscellaneous Metals

A 3D model for all systems included in the steel scope of work shall include, at a minimum, the items listed below:

- 1.7.5.1. All main steel members
- 1.7.5.2. Secondary members connecting to steel columns and posts
- 1.7.5.3. Steel beams
- 1.7.5.4. Secondary framing members
- 1.7.5.5. Steel bracing for roof screens and floor systems including decks
- 1.7.5.6. Braces and members that support items such as movable partition walls
- 1.7.5.7. Any required clearances
- 1.7.5.8. Any other components that are generally relevant for space coordination

1. PART 2 – PRODUCTS

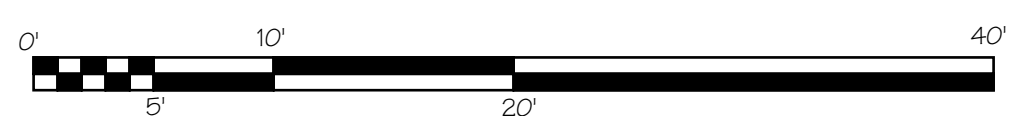
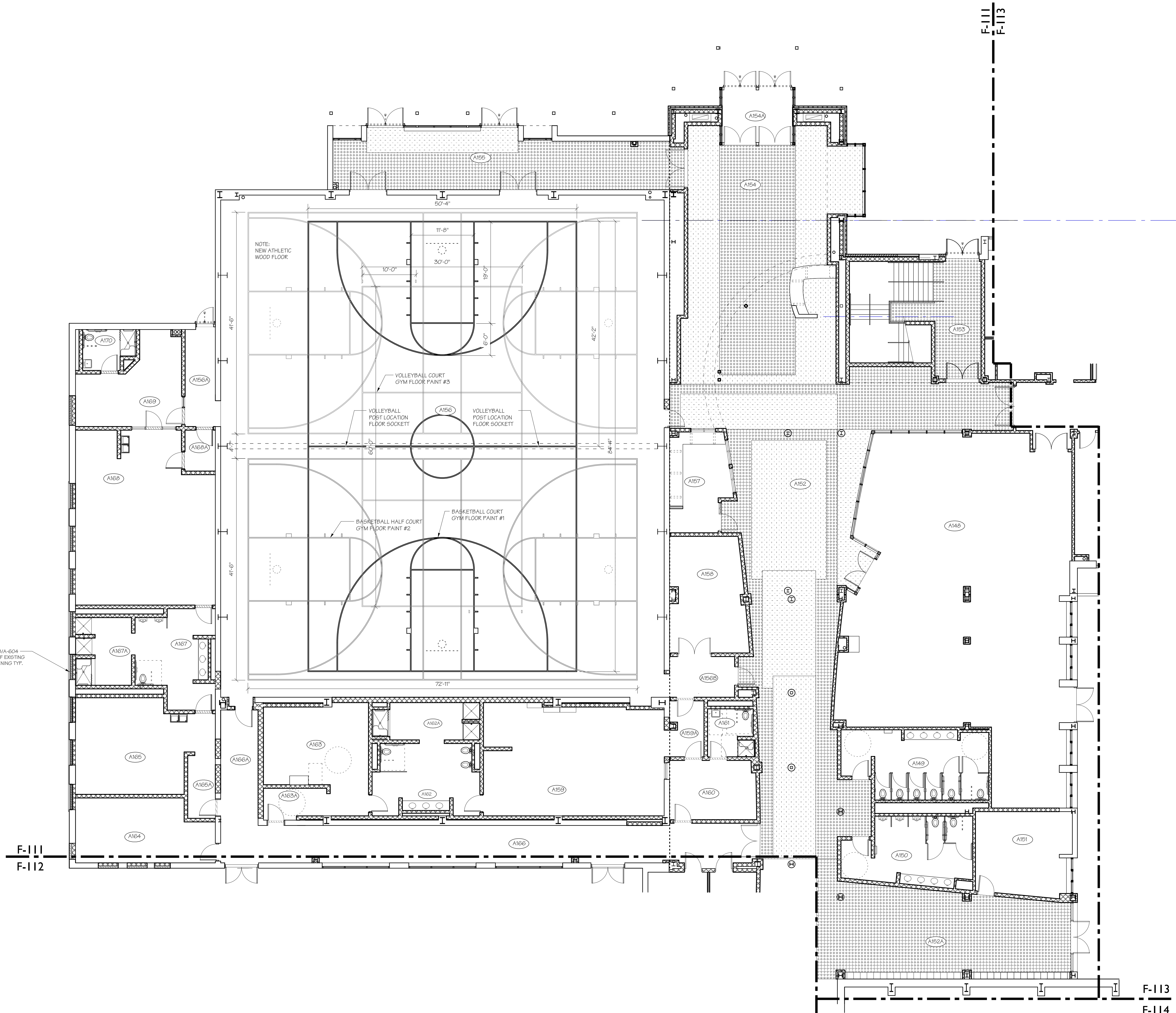
1.1. Hardware Requirements for coordinators:

- 1.1.1. Laptop computer with trade relevant design software and Navisworks Freedom Viewer 2012 installed for each subcontractor's BIM coordinator or 3rd party BIM consultant. Hardware shall meet or exceed software system recommendations for "recommended system requirements" per software manufacturer specifications.
- 1.1.2. Functional personal email address for each subcontractor's BIM Coordinator or 3rd part BIM contractor.
- 1.1.3. Internet connection from home office that allows general internet access, access to collaboration tools (e.g. GotoMeeting, Webex etc.) and access to the file sharing platform.

2. PART 3 – EXECUTION

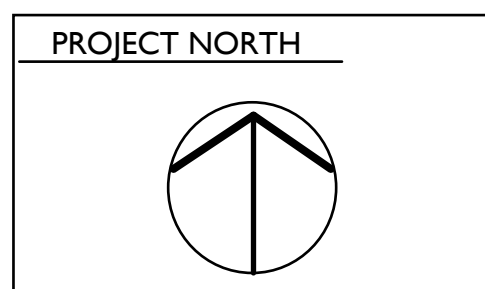
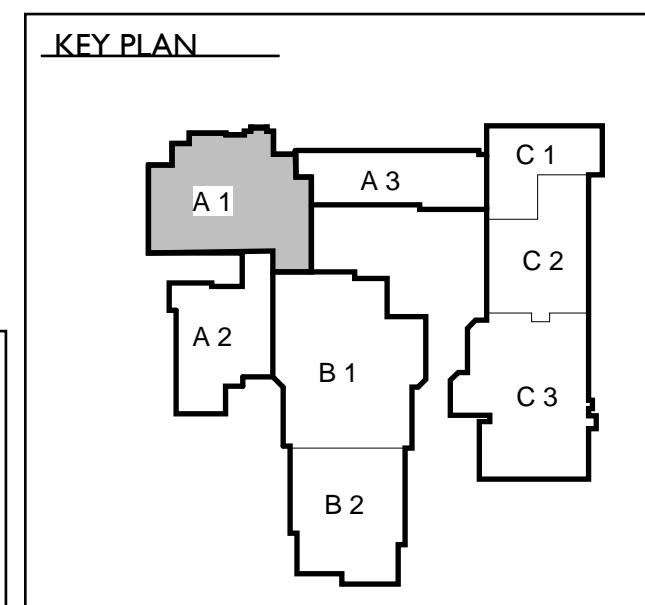
- 2.1. Coordination meetings: The CM's BIM manager will host regular weekly coordination meetings, administrated by the CM. Attendance is mandatory by all subcontracting MEP coordination team members to maintain the coordination and construction schedules.

END OF SECTION



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[Pattern]	LT-2
[Pattern]	LT-3
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GENERAL NOTES:

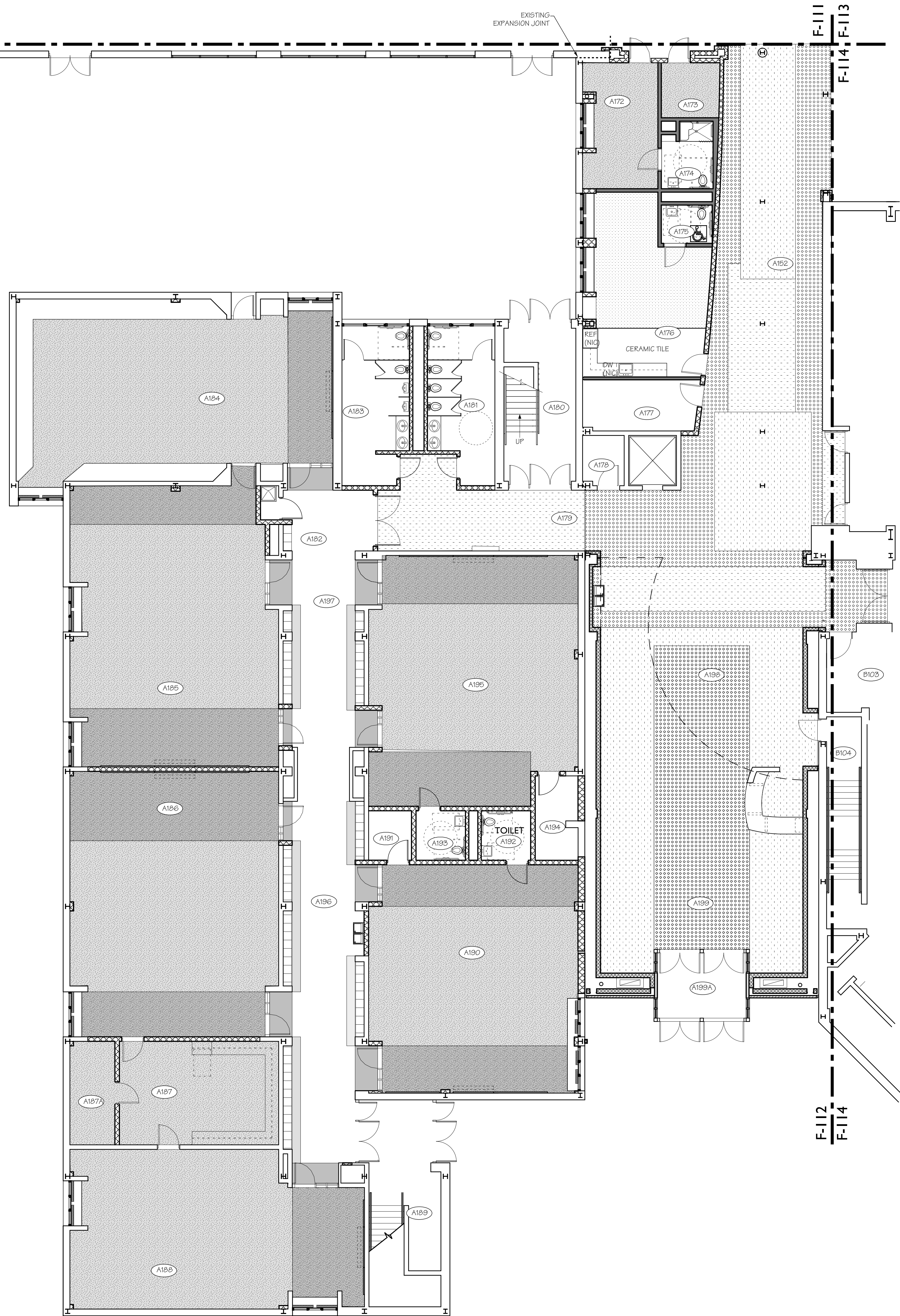
- REFER TO FINISH SCHEDULES FOR ALL FLOOR FINISH CLARIFICATIONS. FLOOR PATTERN PLANS ARE SUPPLEMENTARY TO FINISH SCHEDULE. IF FLOOR PATTERN NOT INDICATED, ASSUME ONE COLOR PER ROOM.
- FOR TOILET ROOM PATTERNS, REFER TO A-300s FOR ENLARGED PLANS

drawing title FIRST FLOOR PATTERN PLAN - A1			STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	
REVISIONS			drawings prepared by NORTHEAST COLLABORATIVE ARCHITECTS 500 PLAZA MIDDLESEX MIDDLETOWN, CT 06457	date 12/10/12
mark	date	description	project J.M. WRIGHT REGIONAL VOCATIONAL TECHNICAL SCHOOL	scale 1"=1'-0"
			approved by J.M. WRIGHT drawing no.	drawn by JET
			project no. BI-RT-842	approved by RAG
CAD no. 05011-CD-111 A1 NORTH ENTRY				F-111

F-111
F-112

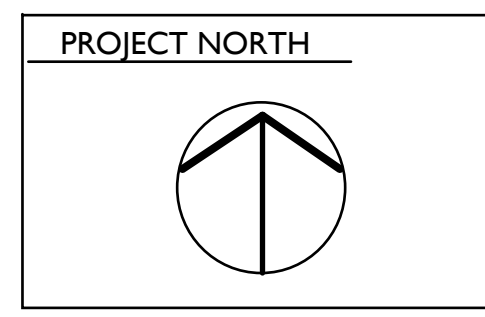
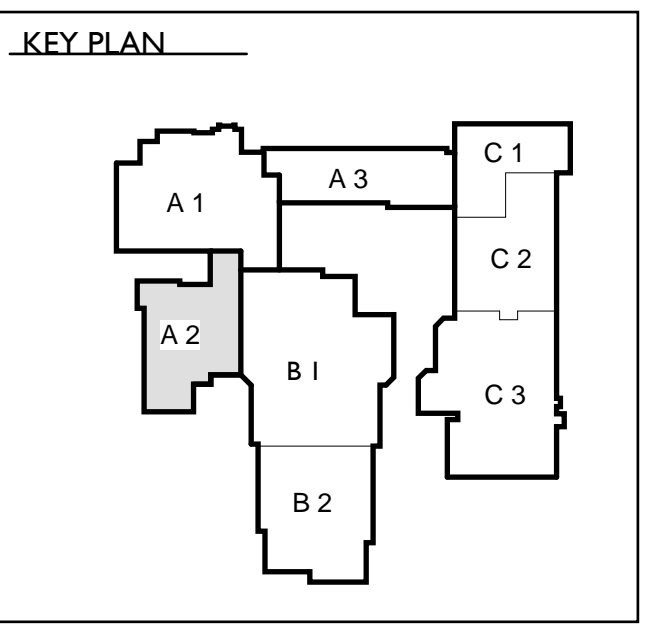
EXISTING EXPANSION JOINT

F-111
F-114
F-113



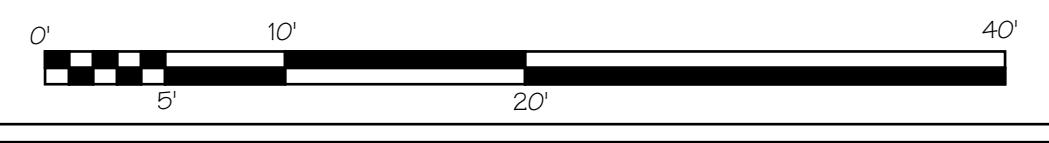
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[Pattern]	RESINOUS MATRIX TERRAZZO (RMT-2)
[Pattern]	RESINOUS MATRIX TERRAZZO (RMT-3)
[Pattern]	50" X 50" LINOLEUM TILE (LT-1)
[Pattern]	LT-1
[Pattern]	LT-2
[Pattern]	LT-3
[Pattern]	RESINOUS FLOORING (RF-1)
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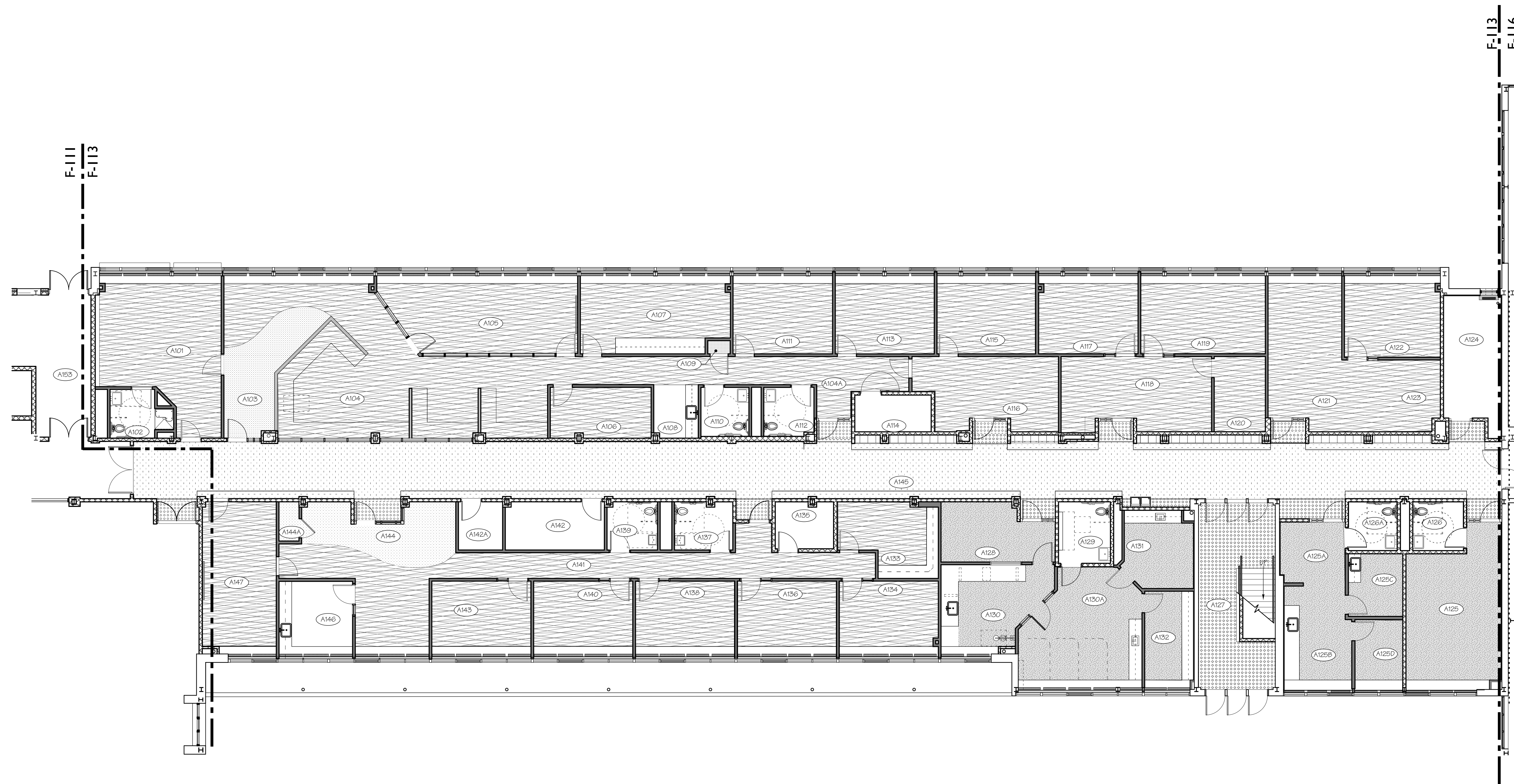
GENERAL NOTES:

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- FOR TOILET ROOM PATTERNS, REFER TO A-300a FOR ENLARGED PLANS

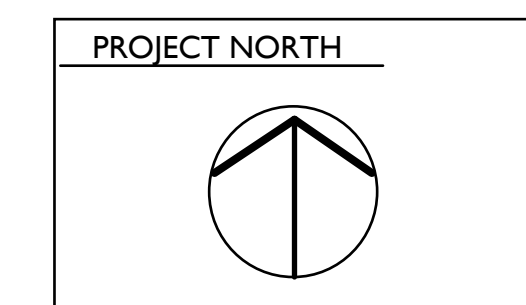
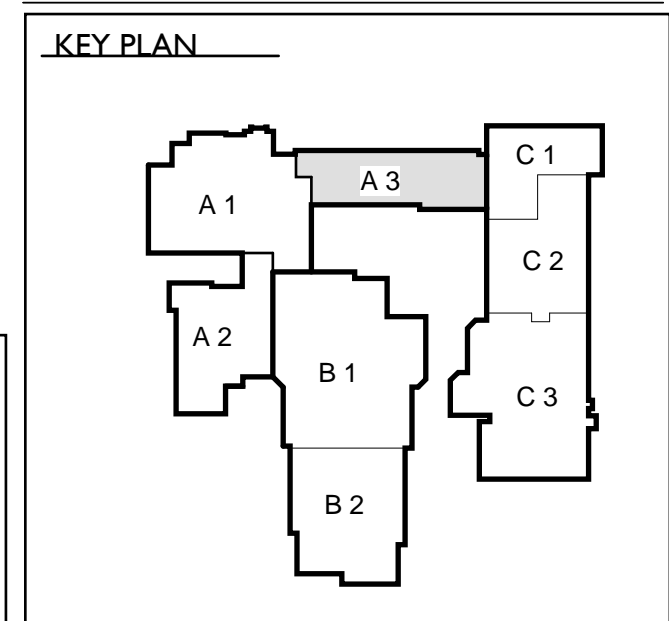


drawing title FIRST FLOOR PATTERN PLAN - A2 REVISIONS		STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	
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drawings prepared by NORTHEAST COLLABORATIVE ARCHITECTS 500 PLAZA MIDDLESEX MIDDLETOWN, CT 06457		scale 1/8"=1'-0"	date 12/10/12
project REGIONAL VOCATIONAL TECHNICAL SCHOOL		drawn by JET	approved by J.M. WRIGHT REGISTERED ARCHITECT
CAD no. 05011-CD-112 A2 SOUTH ENTRY		project no. BI-RT-842	drawing no. F-112

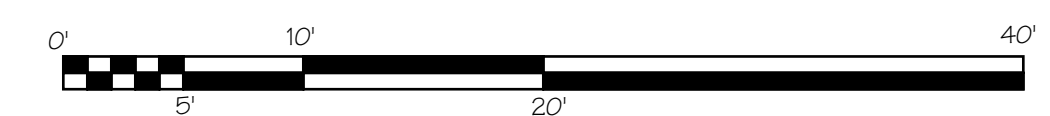
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	RESINOUS MATRIX TERRAZZO (RMT-2)
	RESINOUS MATRIX TERRAZZO (RMT-3)
	50 ^{cm} X 50 ^{cm} LINOLEUM TILE (LT-1)
	LT-1
	LT-2
	LT-3
	RESINOUS FLOORING (RF-1)
	RESINOUS FLOORING (RF-2)
	RESINOUS FLOORING (RF-2A)
	RESINOUS FLOORING (RF-6)
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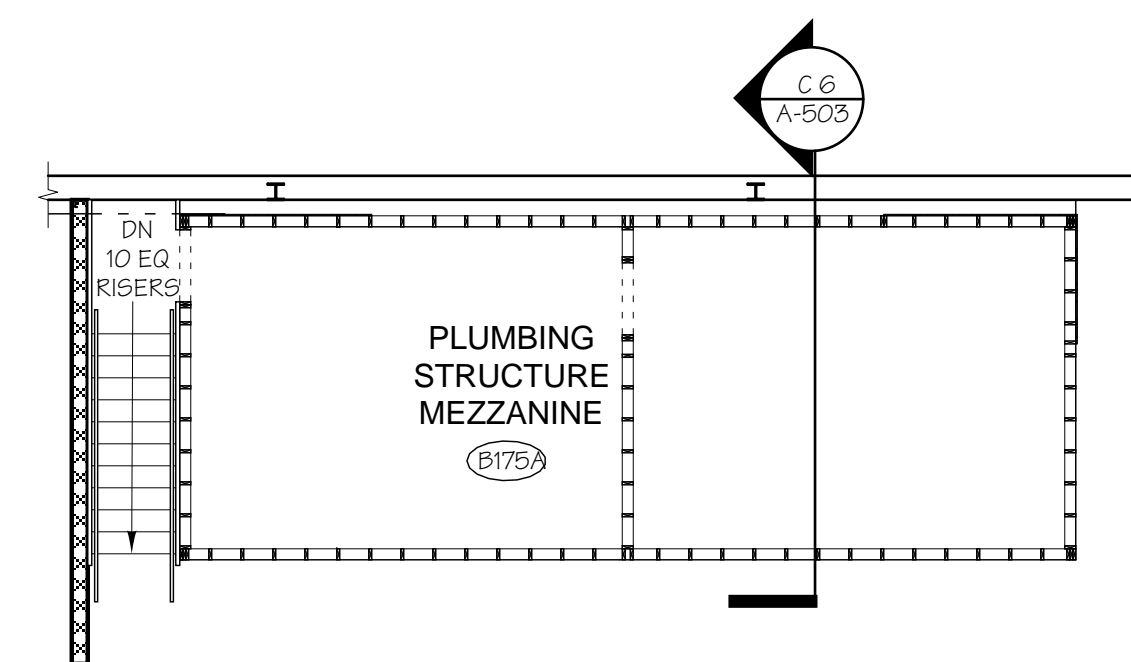
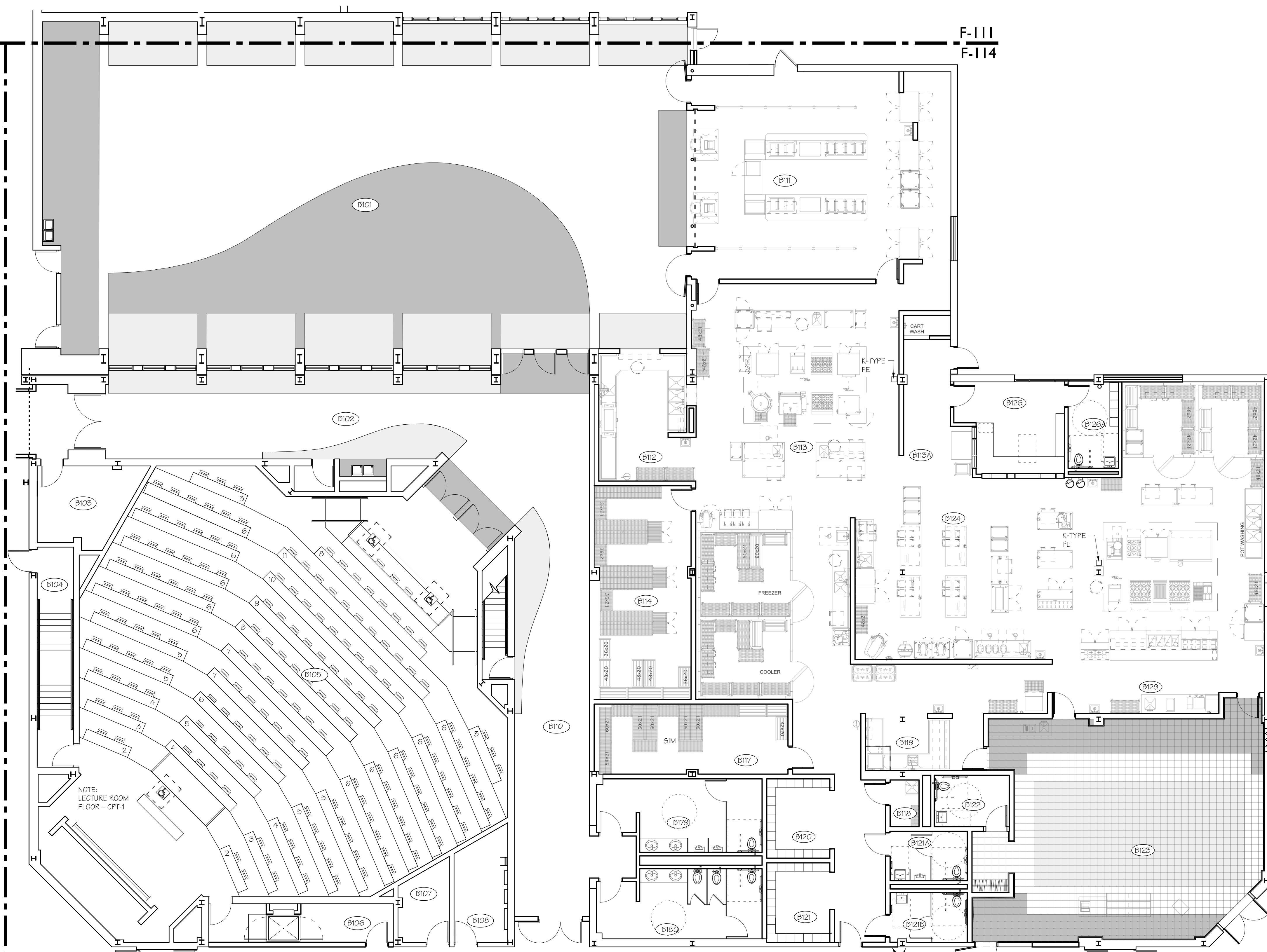
GENERAL NOTES:
 1. REFER TO FINISH SCHEDULES FOR ALL FLOOR FINISH CLARIFICATIONS. FLOOR PATTERN PLANS ARE SUPPLEMENTARY TO FINISH SCHEDULE. IF FLOOR PATTERN NOT INDICATED, ASSUME ONE COLOR PER ROOM.
 2. FOR TOILET ROOM PATTERNS, REFER TO A-300s FOR ENLARGED PLANS



drawing title FIRST FLOOR PATTERN PLAN - A3		STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	
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mark	date	description	scale 1"=1'-0"
			drawn by JET
			approved by J.M. WRIGHT REGIONAL VOCATIONAL TECHNICAL SCHOOL
			drawing no. F-113
CAD no. 05011-CD-113 A3 NURSE HE#130148		project no. BH-RT-842	

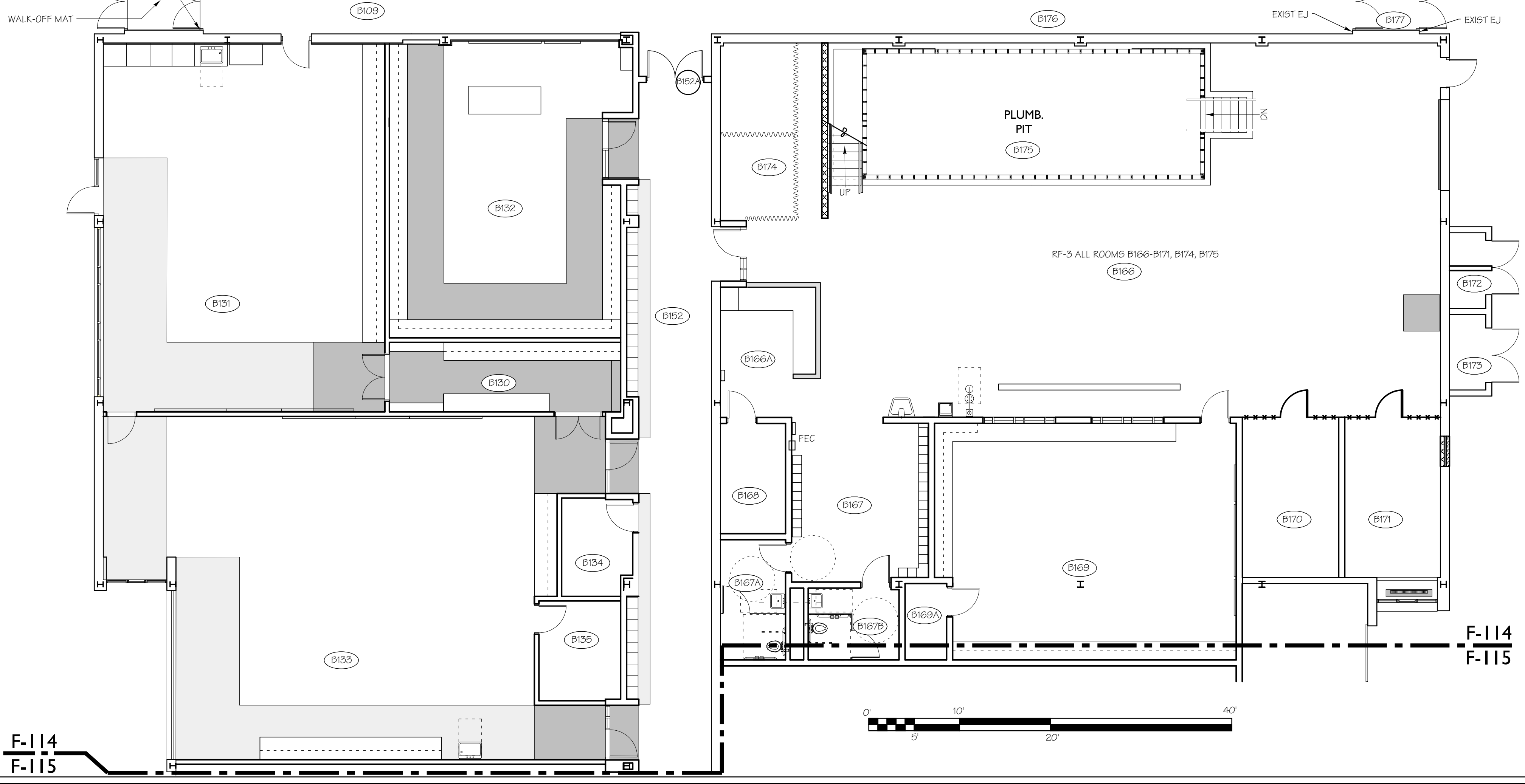
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F-112

F-111
F-114

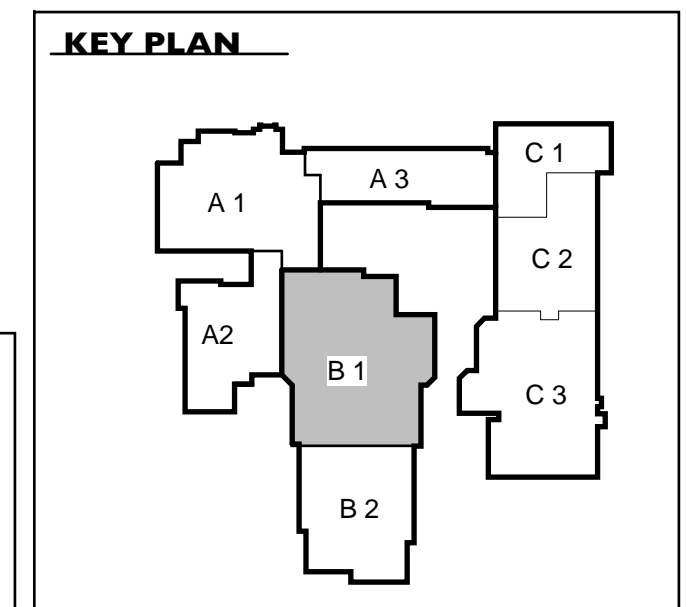


C7 PLUMBING STRUCTURE - MEZZANINE
A-114 SCALE 1/8" = 1'-0" SEE A-503 FOR ADDITIONAL INFORMATION

F-112
F-114



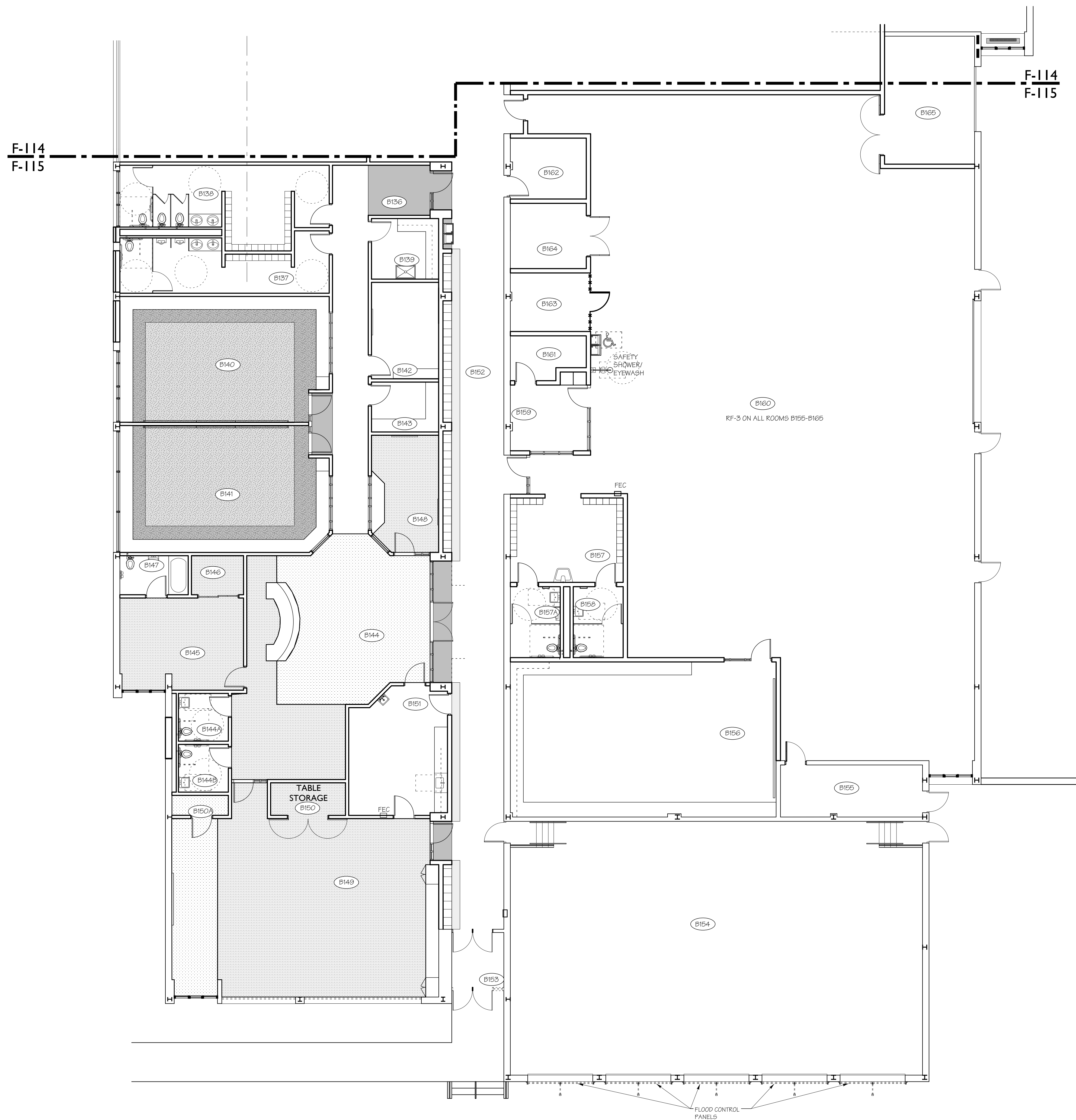
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[Pattern]	RESINOUS MATRIX TERRAZZO (RMT-3)
[Pattern]	50" X 50" LINOLEUM TILE (LT-1)
[Pattern]	LT-1
[Pattern]	LT-2
[Pattern]	LT-3
[Pattern]	RESINOUS FLOORING (RF-1)
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[Pattern]	RESINOUS FLOORING (RF-7)



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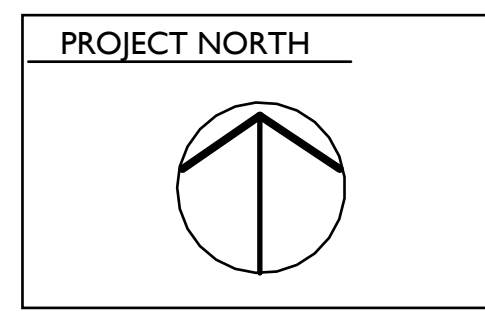
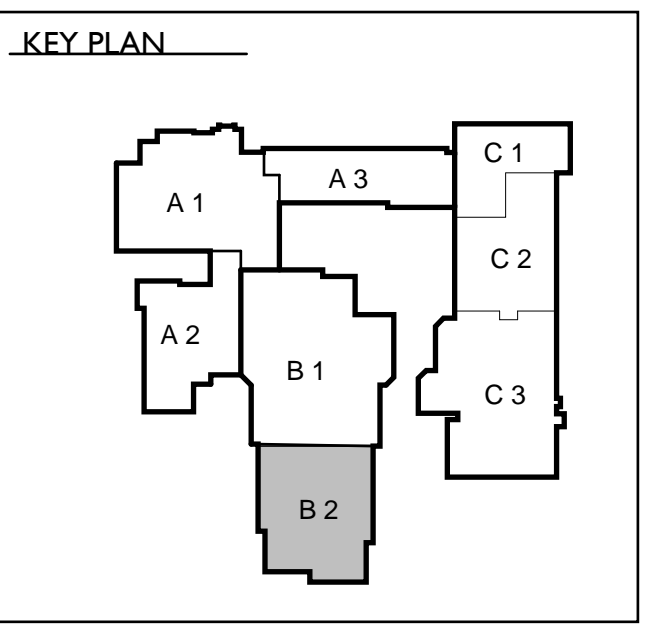
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			date 12/10/12 scale 1/8"=1'-0"
			drawn by JET
			approved by RAG
			drawing no. F-114
CAD no. 02010-CD-107-EL00R; PLAN C1		project no. BI-RT-842	



F-114
F-115

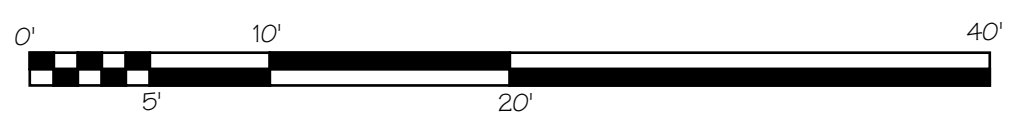
F-114
F-115

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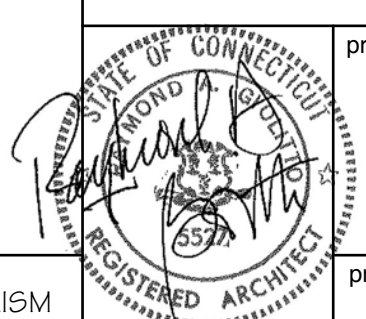


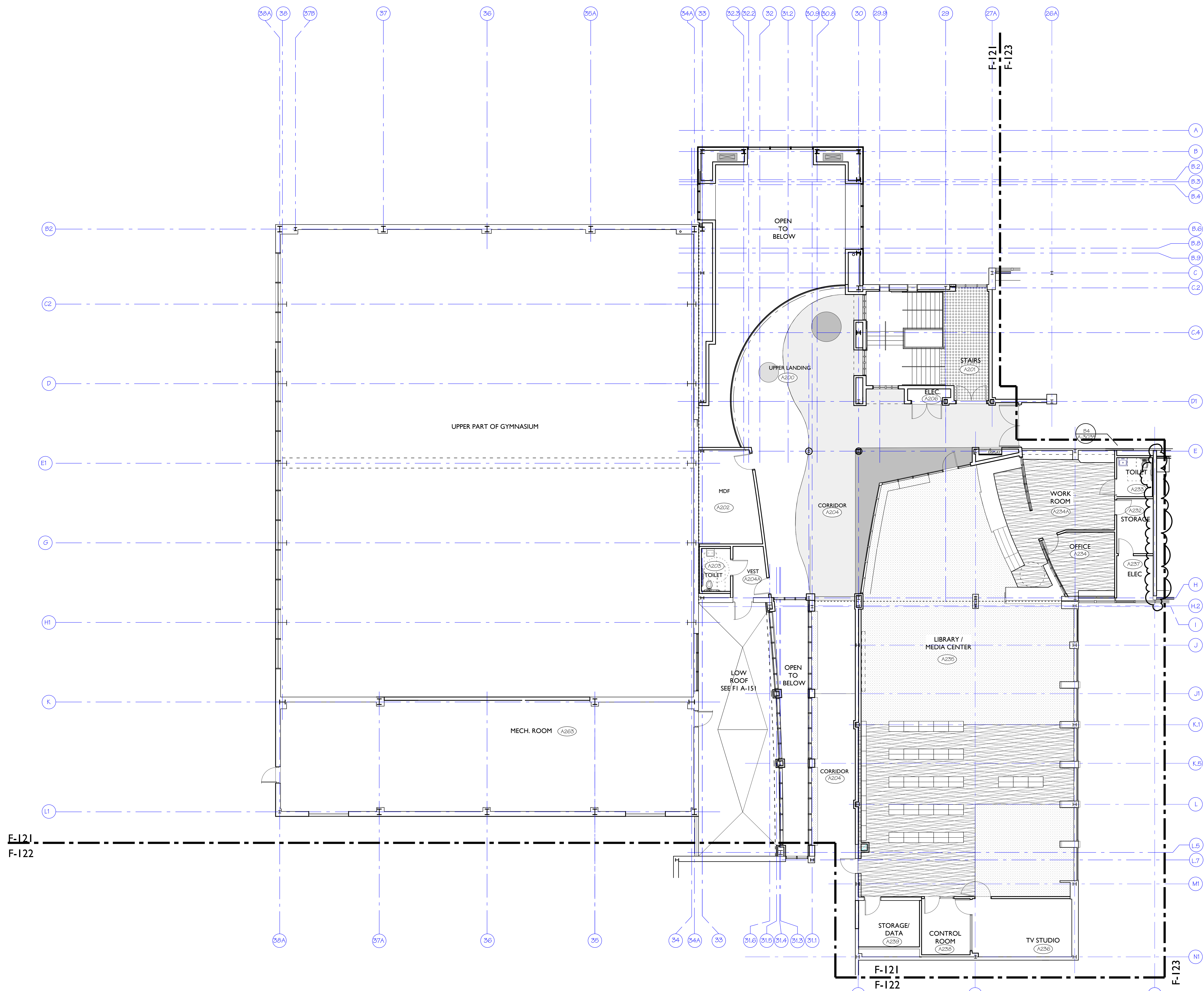
GENERAL NOTES:

- REFER TO FINISH SCHEDULES FOR ALL FLOOR FINISH CLARIFICATIONS. FLOOR PATTERN PLANS ARE SUPPLEMENTARY TO FINISH SCHEDULE. IF FLOOR PATTERN NOT INDICATED, ASSUME ONE COLOR PER ROOM.
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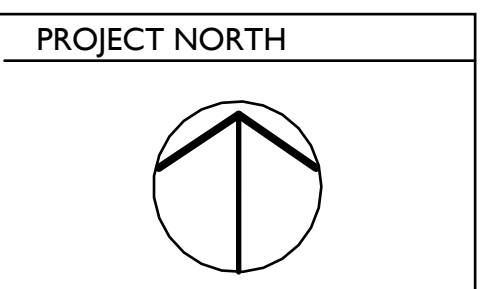
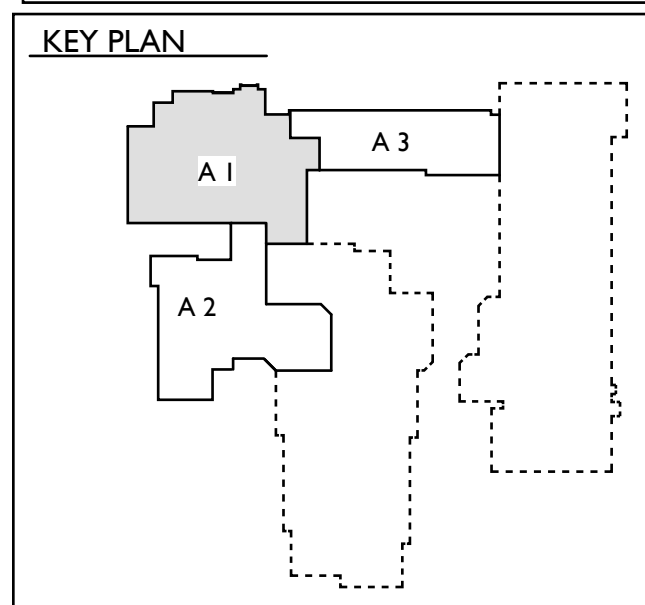
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		project	scale 1/8"=1'-0"
		drawn by J.M. WRIGHT	approved by RAG
		project no. BI-RT-842	drawing no. F-115
CAD no. 05011-CD-115 B2 HOSP & TOURISM			





PATTERN LEGEND

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[Pattern]	LT-1
[Pattern]	LT-2
[Pattern]	LT-3
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E-121
F-122

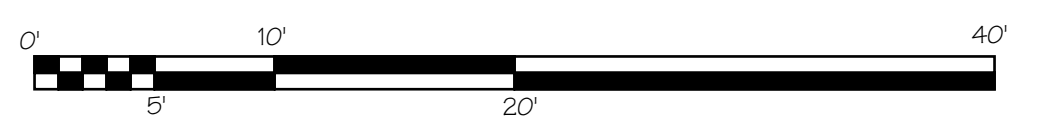
F-121
F-122

F-123

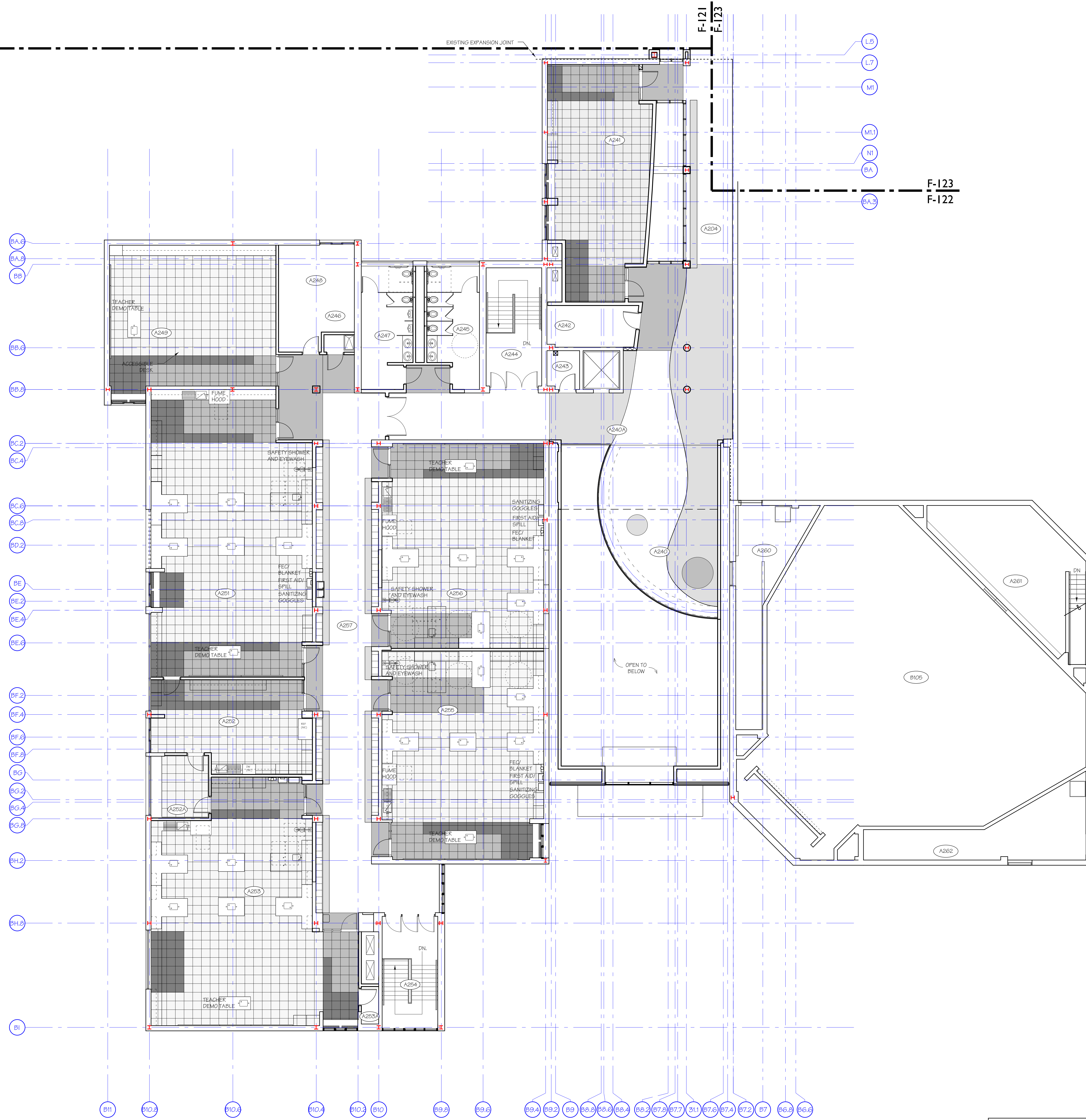
GENERAL NOTES:

- REFER TO FINISH SCHEDULES FOR ALL FLOOR FINISH CLARIFICATIONS. FLOOR PATTERN PLANS ARE SUPPLEMENTARY TO FINISH SCHEDULE. IF FLOOR PATTERN NOT INDICATED, ASSUME ONE COLOR PER ROOM.
- FOR TOILET ROOM PATTERNS, REFER TO A-300s FOR ENLARGED PLANS

drawing title SECOND FLOOR PATTERN PLAN - A1		STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	
REVISIONS		drawings prepared by NORTHEAST COLLABORATIVE ARCHITECTS 500 PLAZA MIDDLESEX MIDDLETOWN, CT 06457	date 12/10/12
mark	date	description	scale 1/8"=1'-0"
			drawn by JET
			approved by RAG
			drawing no. F-121
CAD no. 05011-CD-121 A1 NORTH MAIN ST	project no. BH-RT-842	project J.M. WRIGHT REGIONAL VOCATIONAL TECHNICAL SCHOOL	



F-121
F-122

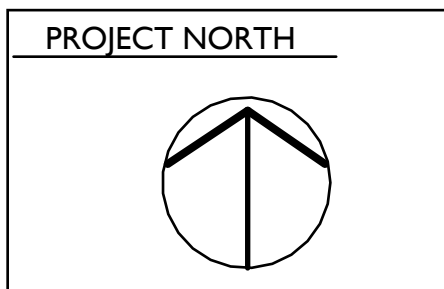
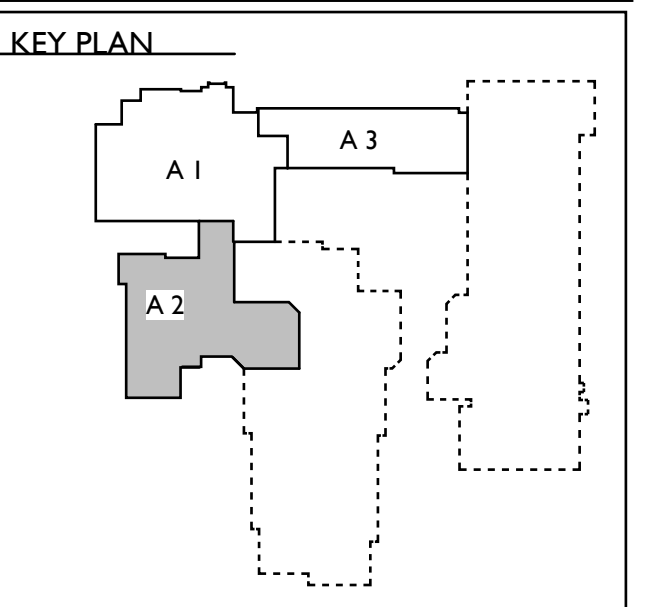


L6
L7
M1
M1.1
N1
BA
BA.2

F-123
F-122

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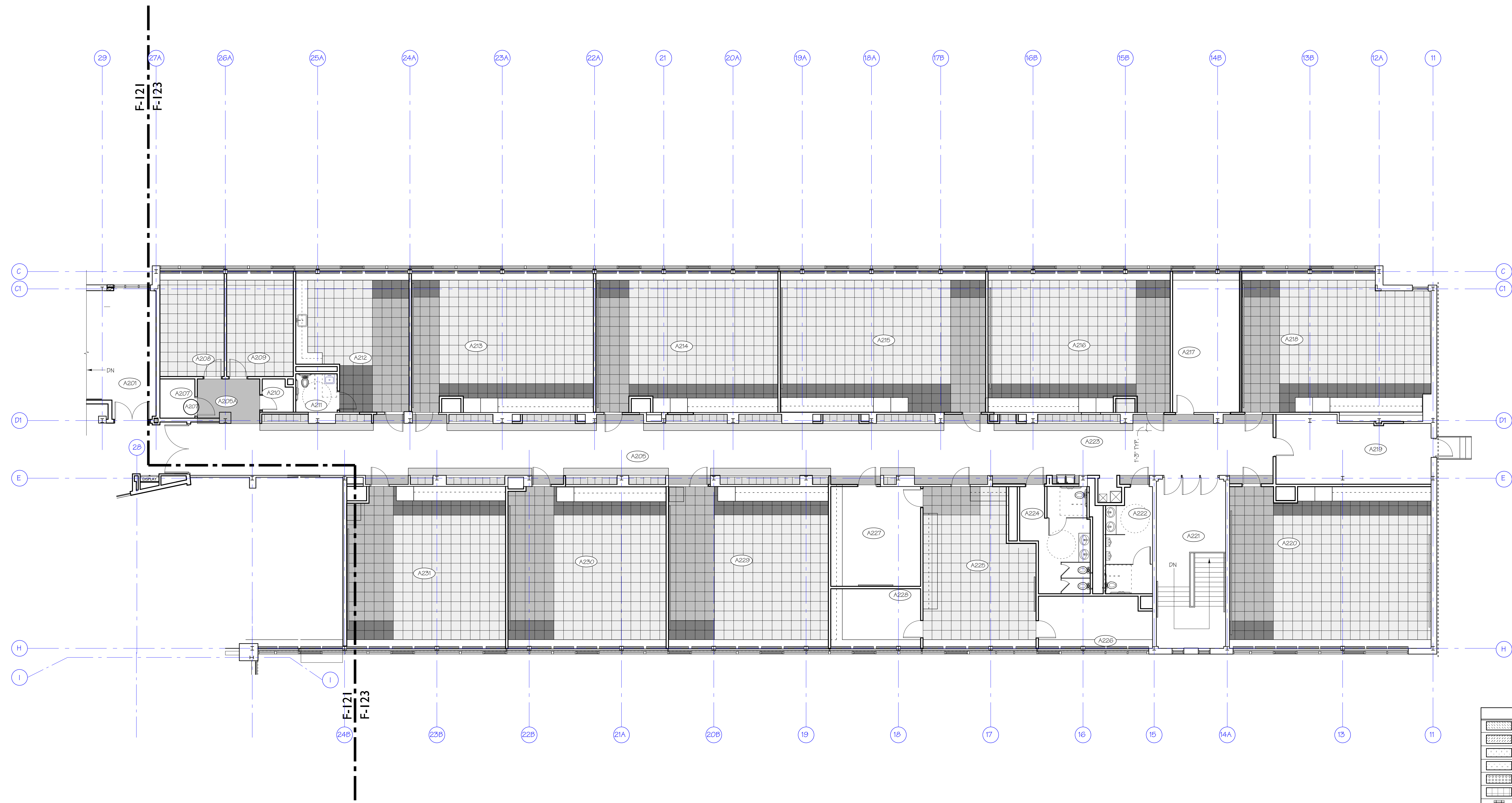
GENERAL NOTES:

- REFER TO FINISH SCHEDULES FOR ALL FLOOR FINISH CLARIFICATIONS. FLOOR PATTERN PLANS ARE SUPPLEMENTARY TO FINISH SCHEDULE. IF FLOOR PATTERN NOT INDICATED, ASSUME ONE COLOR PER ROOM.
- FOR TOILET ROOM PATTERNS, REFER TO A-300 FOR ENLARGED PLANS

drawing title SECOND FLOOR PATTERN PLAN - A2		STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	
REVISIONS		drawings prepared by NORTHEAST COLLABORATIVE ARCHITECTS 500 PLAZA MIDDLESEX MIDDLETOWN, CT 06457	date 12/10/12 scale 1/8"=1'-0"
mark	date	description	drawn by KS
			approved by RAG
			drawing no. F-122
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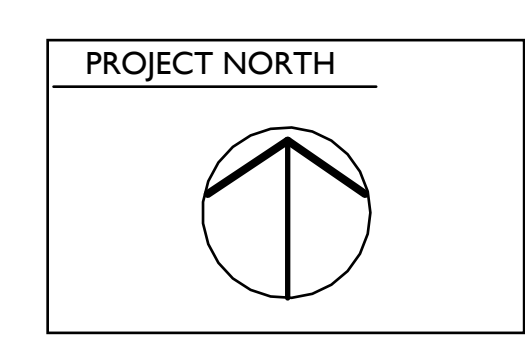
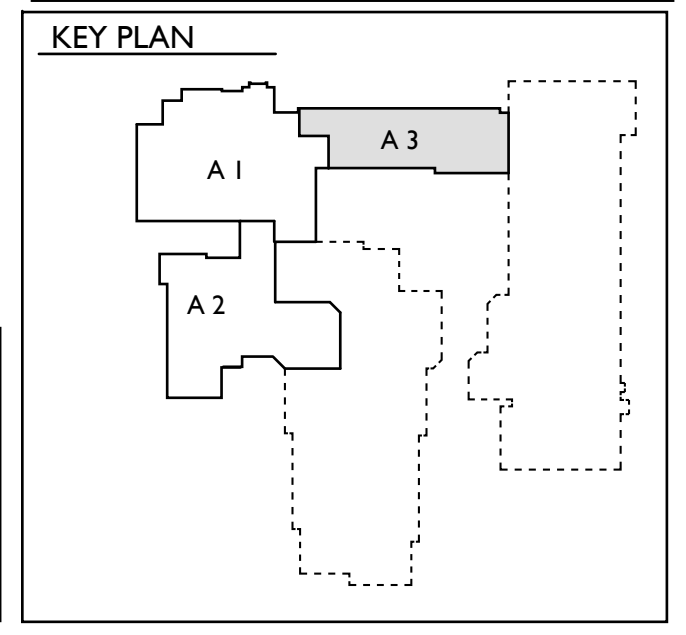


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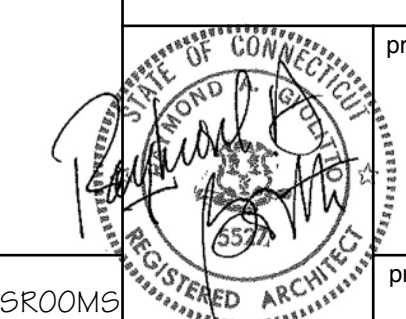


GENERAL NOTES:

- REFER TO FINISH SCHEDULES FOR ALL FLOOR FINISH CLARIFICATIONS. FLOOR PATTERN PLANS ARE SUPPLEMENTARY TO FINISH SCHEDULE. IF FLOOR PATTERN NOT INDICATED, ASSUME ONE COLOR PER ROOM.
- FOR TOILET ROOM PATTERNS, REFER TO A-300A FOR ENLARGED PLANS



drawing title SECOND FLOOR PATTERN PLAN - A3		STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	
REVISIONS			
mark	date	description	date
CAD no. 05011-CD-123 A3 CLASSROOMS		drawings prepared by NORTHEAST COLLABORATIVE ARCHITECTS 500 PLAZA MIDDLESEX MIDDLETOWN, CT 06457	date 12/10/12 scale 1/8"=1'-0"
		project J.M. WRIGHT REGIONAL VOCATIONAL TECHNICAL SCHOOL	drawn by JET approved by RAG drawing no. F-123
		project no. BH-RT-842	



11/29/12 3:05 PM

Bentz, Ryan

From: John Scheib <jscheib@ncarchitects.com>
Sent: Monday, January 14, 2013 9:47 AM
To: david@tristatebrickct.com; len@tristatebrickct.com
Cc: Bentz, Ryan; Smedley, Bob; Enders, Chris
Subject: 05011 JMWHS (BI-RT-842) Brick

David, Len,

As discussed last week, we take no exception to the use of a suitable Watson town and/or Lee brick on the JM Wright project. There is nothing in the project specifications that would disallow such use. The named brick is merely one option.

Also as discussed, there will be two different bricks required for this project (not necessarily from the same manufacturer). (KBE, does this clarification need to be in the next addendum?)

John

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