

ADDENDUM



Public Building Commission of Chicago • Richard J. Daley Center • 50 West Washington, Room 200 • Chicago, Illinois 60602 • Tel: 312-744-3090 • Fax: 312-744-8005

ADDENDUM NO.: 01
PROJECT NAME: DUNNE TECHNOLOGY ACADEMY MODERNIZATION
PROJECT NO.: 05440
CONTRACT NO.: C1566
DATE OF ISSUE: February 27, 2015

NOTICE OF CHANGES, MODIFICATIONS, OR CLARIFICATIONS TO CONTRACT DOCUMENTS

The following changes, modifications, or clarifications are hereby incorporated and made an integral part of the Contract Documents. Unless clearly expressed otherwise by this Addendum, all terms and conditions defined in the original Contract Documents shall continue in full force and effect and shall have the same meaning in this Addendum.

ITEM NO. 1: CHANGE TO BID OPENING DATE AND TIME
1. None.

ITEM NO. 2: CONFIRMATION OF GENERAL CONTRACTOR RESPONSIBILITIES FOR MECHANICAL EQUIPMENT
1. Technical Review Meeting held on February 19, 2015.

a. The PBC will NOT be purchasing any mechanical equipment for this project. As indicated in the Bid Documents, RTU's and Switchgear equipment to be furnished and installed by the General Contractor.

ITEM NO. 3: CLARIFICATION TO PROJECT NAME AND TITLE
1. None.

ITEM NO. 4: REVISIONS TO BOOK 1

1. Change – Section III Instruction to Bidders, Item Q - Basis of Award, 1st and 2nd paragraph, DELETE value of \$6,495,000 in its entirety and REPLACE WITH the following value of \$6,575,000.
2. Change – Section III Instruction to Bidders, Item U - Award of Contract; Rejection of Bids, subsection 1, 1st and 2nd paragraph, DELETE value of \$6,495,000 in its entirety and REPLACE WITH the following value of \$6,575,000.
3. Change – Section V Proposal Support Documents, Item A1 - Basis of Award (Award Criteria), 2nd and 3rd paragraph, DELETE value of \$6,495,000 in its entirety and REPLACE WITH the following value of \$6,575,000.

ITEM NO. 5: REVISIONS TO BOOK 2

1. None.

ITEM NO. 6: REVISIONS TO BOOK 3, DIVISIONS 02 - 49 SPECIFICATION SECTIONS

1. Specification 00 01 10 – TABLE OF CONTENTS
 - a. Delete "Section 08 41 13 – Aluminum-Framed Entrances and Storefronts".
 - b. Change Section "08 51 13 - Aluminum Windows" to read "08 51 13 - Aluminum Windows (SF)".
2. Specification 08 41 13 – ALUMINUM-FRAMED ENTRANCES AND FRAMING
 - a. Delete Section in its entirety.
3. Specification 08 51 13 – ALUMINUM WINDOWS
 - a. At Paragraph 2.6.E, change to read: "E. Aluminum Finish: 1. Class I, Clear Anodic Finish: AA-M12C22A41 (Mechanical Finish: non-specular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class I, clear coating 0.018 mm or thicker) complying with AAMA 611.".
4. Specification 32 12 16 – HOT MIX ASPHALT PAVING
 - a. At Paragraph 2.1.B.3.a, change sentence to read: "More than 25% of the proposed asphalt mix shall be RAP material."
5. Specification 32 12 36 – ASPHALT SEALCOAT
 - a. At Paragraph 3.1.B.2 and 3.1.B.3, change items to read:
 - "2. Any cracks larger than ¼ inch shall be routed, cleaned and filled with an approved hot pour rubberized asphalt sealing compound at a temperature of 300 degrees prior to sealcoating. Crack fill material to be squeegee applied.
 3. Any cracks larger than 1" pavement shall be full depth removed and replaced."

ITEM NO. 7: REVISIONS TO DRAWING SHEETS

1. SHEET C1.4.1 – SITE UTILITY PLAN
 - a. Revised storm sewer from 24" diameter to 36" diameter from CB-5 to CB-6
 - b. Revised inverts from Storm Service at building, CB-1 and CB-2 as indicated on the drawing.
 - c. Revised trench widths as indicated on the drawing.
2. SHEET C1.5.1 – SITE DETAILS (Refer to CSK-001)
 - a. Revise detail #5, note 7.
3. SHEET C1.5.2 – UTILITY DETAILS
 - a. Revise detail #11, cross-section trench storage widths as indicated on plan.
 - b. Update Turf Field detention cross-section per new trench dimension as shown on C1.4.1
4. SHEET C1.5.1 – SITE DETAILS
 - a. DETAIL 10A – Should read "FUEL EFFICIENT AND LOW-EMITTING VEHICLES ONLY" in lieu of, "FUEL EFFICIENT ONLY".
 - b. TAG 10B – Should read "CARPOOL DROP OFF ZONE" in lieu of, "CARPOOL PARKING ONLY".

5. SHEET AD6.1.0 – DEMOLITION REFLECTED CEILING PLANS (Reference ASK-001)
 - a. Added Note D73 to read as follows: "REMOVE EXISTING SUSPENDED TILE AND GRID AS REQUIRED FOR INSTALLATION OF NEW KITCHEN HOOD. SEE M.E.P. DRAWINGS FOR PENETRATION DETAILS."
 - b. Added Note D75 to read as follows: "REMOVE EXISTING SUSPENDED CEILING GRID AND TILES. SALVAGE EXISTING LIGHTING FIXTURES AND CEILING MOUNTED DEVICES FOR REINSTALLATION IN NEW CEILING."
 - c. At Corridors 13 (1st Floor) and 33 (2nd Floor), change keynote indicated from "D43" to read "D65" and delete keynote "D44".
6. SHEET A1.1.0 – FIRST FLOOR PLAN
 - a. Added Note A18 to read as follows: "ELECTRICAL PANEL CHASES TO BE PAINTED."
 - b. Revised various plan dimensions to match the structural drawings.
7. SHEET A1.2.0 – SECOND FLOOR PLAN
 - a. Added Note A18 to read as follows: "ELECTRICAL PANEL CHASES TO BE PAINTED."
 - b. Revised various plan dimensions to match the structural drawings.
8. SHEET A2.3.0 – DOOR AND FRAME SCHEDULE, TYPES AND DETAILS (Reference ASK-002)
 - a. At Detail H2 add Note J12.
9. SHEET A6.1.0 – FIRST FLOOR REFLECTED CEILING PLAN (Reference ASK-001)
 - a. At Kitchen 1 added Note C7 to read as follows: "NEW CEILING TILE AND GRID. COORDINATE WITH INSTALLATION OF KITCHEN HOOD. SEE M.E.P. DRAWINGS FOR PENETRATION DETAILS."
 - b. At Corridor 13, change keynote "C1" to read "C5". New grid shall be 2'x4'.
 - c. At Classrooms 159 and 161, add keynote "C3" at each exterior window location where not indicated in plan.
 - d. At Sheet Keynotes, change Keynote "C2" to read as follows: "REINSTALL EXISTING LIGHT FIXTURES (REFER TO E-SHEETS), EXISTING CEILING MOUNTED DEVICES, GRILLES, AND SPEAKERS. REPLACE DAMAGED CEILING GRID / HANGERS (ALLOW 10% OF ROOM CEILING AREA). PROVIDE ADDITIONAL NEW CEILING GRID AT WALLS."
10. SHEET A6.2.0 – SECOND FLOOR REFLECTED CEILING PLAN (Reference ASK-003)
 - a. At Elevator Lobby 251 add APC-4 ceiling.
 - b. At Corridor 33 (including east-west section), add keynote "C5". New grid shall be 2'x4'.
 - c. At Sheet Keynotes, change Keynote "C2" to read as follows: "REINSTALL EXISTING LIGHT FIXTURES (REFER TO E-SHEETS), EXISTING CEILING MOUNTED DEVICES, GRILLES, AND SPEAKERS. REPLACE DAMAGED CEILING GRID / HANGERS (ALLOW 10% OF ROOM CEILING AREA). PROVIDE ADDITIONAL NEW CEILING GRID AT WALLS."
11. SHEET A8.1.0 – FIRST FLOOR FINISH PLAN
 - a. Revised extents of FLM-2. See Sketch ASK-004.
12. SHEET A8.2.0 – SECOND FLOOR FINISH PLAN
 - a. Revised extents of FLM-2. See Sketch ASK-005.
13. SHEET A9.1.0 – FIRST FLOOR FURNITURE & WALL MOUNTINGS PLAN

- a. Revised Note A12 to read as follows: "PROVIDE 3" x 3" x 4'-0" HIGH STAINLESS STEEL CORNER GUARD."
 - b. Added corner guards at the locations identified in the revision clouds.
 - c. Added "NO SMOKING" signs. See ASK-006 for detail.
14. SHEET A9.2.0 – SECOND FLOOR FURNITURE & WALL MOUNTINGS PLAN
- a. Revised Note A12 to read as follows: "PROVIDE 3" x 3" x 4'-0" HIGH STAINLESS STEEL CORNER GUARD."
 - b. Added corner guards at the locations identified in the revision clouds.
15. SHEET S2.1.1 - FOUNDATION SECTIONS & DETAILS
- a. Detail 5/S2.1.1 is revised (SSK-001)
 - b. Detail 15/S2.1.1 is revised (SSK-002)
 - c. Detail 17/S2.2.1 is revised (SSK-003)
16. SHEET S6.1.0 - ELEVATIONS
- a. Lintels added (SSK-004, 005, 006)
17. SHEET M0.0.1 – MECHANICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES
- a. Add the following to Demolition General Note D: "DISPOSAL SHALL BE IN ACCORDANCE WITH SECTION 01 35 63" "CONSTRUCTION WASTE MANAGEMENT", OR "SECTION 31 23 18.13 SOIL, FILL GENERAL CONSTRUCTION & DEMOLITION DEBRIS DISPOSAL, AS APPLICABLE".
 - b. Add the following to Demolition General Notes: E. "ALL MATERIALS CONTAINING ASBESTOS OR LEAD-BASED PAINT SHALL BE HANDLED IN ACCORDANCE WITH SECTIONS 02 82 14 ASBESTOS ABATEMENT – INTERIOR, 02 82 15 ASBESTOS ABATEMENT – EXTERIOR, AND 02 83 19.13 – LEAD-BASED PAINT ABATEMENT MITIGATION".
18. SHEET M1.1.2 - FIRST FLOOR MECHANICAL PLAN
- a. Replace key note 1 with the following:
 - 1) "For each unit ventilator (AFF MCQUAY): Pull the unit from its wall position. The electrical connections should not be removed, if possible for checking operation after cleaning and adjustment.
 - a) Check and replace the air intake louver/bird screens and connection section of any dirt and debris.
 - b) Vacuum clean the air intake louvers/bird screens and connection section of any dirt and debris.
 - c) Clean units internally using a vacuum to remove all material.
 - d) Vacuum clean coils and straighten fins. If coils are very dirty, use degreaser to remove any dirt that prevents proper coil operation.
 - e) Vacuum clean fans (including internals to remove foreign material), housings and internal components.
 - f) Lubricate all linkages, fans, and all moving parts.
 - g) Clean filter housing and replace filters.
 - h) Pressure wash drain pans.
 - i) Confirm that the drain line is fully operational. If not working, clear drain line of any obstacles to liquid flow.
 - j) Clean, lubricate, and re-set damper linkages and damper operation. Exercise outside air and return air damper from fully open to fully closed and confirm that the dampers operate smoothly and without binding.

- k) Clean (degrease) and straighten damper blades.
 - l) Check the system for the refrigerant valve operation.
 - m) Evacuate and charge the system with the proper amount of refrigerant (R-22).
 - n) Cycle compressors and test thermostat for operation to start and stop compressor when in cooling mode.
 - o) Test operation of all components by operating the system through heating, cooling, and economizer modes. Reset dampers and controls as necessary for smooth operation.
 - p) Verify that the control damper actuators work properly and all control wires are connected.
 - q) Repair/replace panel clips and locking devices.
 - r) After all work is completed, re-install unit in its original location and seal the unit to the wall with silicone caulk.
 - s) Install a flexible waterproof membrane similar to gorilla tape or silicone caulk along any cracks in the floor beneath the unit ventilator prior to re-installing the unit."
- b. Change "FC-1 & FC-2" to read "FC-2 & FC-3" in key note 2.
 - c. Add the following to key note 2: "THE CONTRACTOR SHALL INVESTIGATE THE EXISTING CEILING MOUNTED FANCOIL UNIT SIZES AND INSTALLATION DETAILS BEFORE ORDERING THE REPLACEMENT EQUIPMENT. THIS INCLUDES THE OUTSIDE AI CONNECTION AND RETURN AIR CONNECTIONS TO THE UNITS, THE CONDENSATE PUMP AND PIPING/TUBING AND THE METHOD OF SUPPORT FOR THE EXISTING EQUIPMENT. THE NEW EQUIPMENT SHALL BE THE SAME CAPACITY AS THE EXISTING TO ALLOW FOR THE RE-USE OF THE EXISTING UTILITIES. AFTER THE EXISTING UNITS HAVE BEEN REVIEWED, THE NEW EQUIPMENT MAY BE PROCESSED".
 - d. Add the following to key note 2: "REPLACE THE TWO THERMOSTATS ASSOCIATED WITH FC-2 & 3 LOCATED ON THE NORTH AND SOUTH WALLS".
 - e. Install EUH-6 & 7 in the main office (room 6) replacing the existing unit heaters on the outside wall and do not remove the existing unit heaters from staff toilet rooms 10 and 11.

19. SHEET M1.2.1 - SECOND FLOOR PLAN ANNEX

- a. Change the note for the exhaust ducts to read: "36 X 30 EXHAUST DUCT FROM THE EXHAUST DAMPER. ROUTE ALONG ROOF TO A POINT 15' FROM THE TRU AIR INTAKE. INSTALL BIRDSCREEN ON THE OUTLET. IF THE DUCTS PASS THROUGH THE SOUND SCREEN, INSTALL AN ALUMINUM ANGLE AROUND THE DUCT FASTENED TO THE SCREEN WITH STAINLESS STEEL NUTS AND BOLTS TO PROVIDE STRUCTURAL INTEGRITY TO THE SCREEN".

20. SHEET M1.2.2 - EXISTING BUILDING SECOND FLOOR PLAN

- a. Replace key note 1 with key note 1 changes above.
- b. Move key note 34 to drawing M1.1.2 as the equipment is on the north wall of room 110 and add the following: "CONTRACTOR SHALL TEST UNIT CNOTROL FOR THE CONNECTED EXHAUST FANS AND SHALL REPORT AND ISSUES WITH THE OPERATION OF THE FANS TO THE CONSTRUCTION MANAGER".

21. SHEET M7.0.2 - MECHANICAL SCHEDULES

- a. Remove drawing M7.0.2 and replace with revised sheet, which includes the following changes: FC-2 & 3 updates; FAN SCHEDULED additional information; added AI COOLED CONDENSER SCHEDULE; and a reference that RTU-1 and RTU-2 are furnished by others.

22. SHEET M9.0.1 - MECHANICAL DETAILS
 - a. Insert the attached MSK-1 as M3 showing the schematics for RTU-1 and RTU-2.
23. P1.1.1 FIRST FLOOR PLUMBING PLAN
 - a. Add a floor cleanout to room 159 for the 4" sanitary drain line and room 160 for the 3" storm drain line.
24. P8.0.1 PLUMBING FLOW DIAGRAMS
 - a. Add the following to P1: 4. ISOLATION VALVES SHALL BE INSTALLED TO ALL DEVICES AND FIXTURES
 - b. Add the following note to P3 and P4: "ACID RESISTENT VENT PIPING SHALL BE INSTALLED FOR ALL LAB SINKS. ACID VENT PIPING SHALL EXTEND THROUGH ROOF".
25. P9.0.1 PLUMBING DETAILS
 - a. Add the following note to P1: "PROVIDE A 30" X 30" X 30" THRUST BLOCK TO THE CW RISER BASE AS IT ENTERS THE PUMP ROOM. THRUST BLOCK SHALL CONFROM TO DETAIL D-11 OF THE CITY OF CHICAGO STANDARD DETAILS FOR WATER MAIN INSTALLATIONS".
 - b. For P8, change " 3" MINIMUM to read 8" ".
26. SHEET ED1.0.2 - ELECTRICAL DEMOLITION FLOOR PLAN
 - a. Add the following to Demolition General Note 1: "ALL HAZARDOUS MATERIALS SHALL BE HANDLED IN ACCORDANCE WITH DIVISION 02 SECTION 02 86 13 "HAZARDOUS AND UNIVERSAL WASTE MANAGEMENT." ALL ASBESTOS ABATEMENT OF INSULATED WIRING SHALL BE PERFORMED IN ACCORDANCE WITH SECTIONS 02 82 14 ASBESTOS ABATEMENT - INTERIOR PRIOR TO DEMOLITION.
27. SHEET E1.1.1 – ELECTRICAL FIRST FLOOR LIGHTING PLAN (Refer to ESK-001)
 - a. Add emergency battery pack (EBU) and exit signs to link corridor 164.
28. SHEET E1.2.1 – ELECTRICAL SECOND FLOOR LIGHTING PLAN (Refer to ESK-002)
 - a. Add emergency battery pack (EBU) and exit signs to link corridor 230.
 - b. Show existing lighting panel LP-2 which feeds existing lighting on the second floor.
 - c. Indicate that fixtures in the MDF room need new lenses.
 - d. Add keyed note #4: 'PROVIDE NEW LENSE FOR EXISTING LIGHT FIXTURE.'
 - e. Reword keyed note #1 to indicate 'QUANTITY OF FIXTURE REPLACEMENT ASSUMED TO BE 20%'.
29. SHEET E2.1.1 – ELECTRICAL FIRST FLOOR POWER AND LOW VOLTAGE PLAN (Refer to ESK -003)
 - a. Show existing concentrator box as being reinstalled in Parents Room 111.
30. SHEET E2.2.1 – ELECTRICAL SECOND FLOOR POWER AND LOW VOLTAGE PLAN (Refer to ESK-004)
 - a. Show existing 'IDF' panel in MDF room.
 - b. Add new CP-2 panel in MDF room
 - c. Show existing concentrator box as being reinstalled in Special Education/Resource Room 203.
 - d. Add keyed note #6: 'PROVIDE (3) CIRCUITS FROM NEW PANEL CP-2 TO FEED THE NEW SECURITY RACK AND (3) CIRCUITS TO FEED THE NEW POWER RACK'

- e. Reword keyed notes #3 and #4 to remove circuit provision information.
31. SHEET E3.1.1 – ELECTRICAL FIRST FLOOR SECURITY PLAN
 - a. Remove glass break device in Gym Office room 158.
 32. SHEET E7.0.1 – ELECTRICAL SCHEDULES (Refer to ESK-005)
 - a. Add F18 feeder for new panel CP-2.
 33. SHEET E7.0.2 – ELECTRICAL PANEL SCHEDULES (Refer to ESK-006)
 - a. Add panel schedule for CP-2.
 - b. Modify load information for LP-3 for addition of new EBUs and exit lights in link corridors.
 34. SHEET E8.0.1 – ELECTRICAL SINGLE LINE DIAGRAM (Refer to ESK-007)
 - a. Add panel CP-2
 35. SHEET E9.0.5 – ELECTRICAL DETAILS
 - a. Modified title of detail E6 to 'TELEVISION MMTV OUTLET DETAIL'.
 36. SHEET E9.0.7 – ELECTRICAL DETAILS (Refer to ESK-008)
 - a. Modified MDF room details to match project requirements.

ITEM NO. 8: REQUESTS FOR INFORMATION

1. **Statement:** The aluminum storefront spec does not call out a system. The drawings show a 6 inch deep thermal storefront. The 2 x 4 ½ standard storefront would work. Do you want an alternate deduct?
Response: Spec Section 08 41 13 – “Aluminum-Framed Entrances and Framing” shall be deleted from project specifications. Refer to Spec Section 08 51 13 – Aluminum Windows regarding new window openings. Refer to Spec Section 08 15 00 – “FRP Door Assemblies” regarding building entrances.
2. **Statement:** The storefront specs have no material and finish warranty called out. Do I bid standard 1-year warranty?
Response: Refer to Spec Sections 08 51 13 – “Aluminum Windows” and 08 15 00 – “FRP Door Assemblies” for specified finishes and warranty information.
3. **Statement:** The door schedule does not call out any aluminum storefront doors but the specs call out a wide stile aluminum door. When you look at elevation SF10 the doors are drawn like an aluminum door and not an RFRP door as called out on the schedule. Door 150-A, 150-B, 150-C, 150-D. Do I bid as my storefront aluminum doors?
Response: These doors are FRP doors with two lites; refer to Spec. Section 08 15 00 for entrance door and framing information. Spec. Section 08 41 13 shall be deleted.
4. **Statement:** The ceiling grid in both the 1st and 2nd floor Corridors may need to be removed and replaced for the following reasons – please clarify:
 - i. Visual inspection shows that when the building was constructed the acoustic ceilings were installed prior to the modular walls – see photo attached.
 1. Drawing A6.1.0 shows the Main Corridor ceiling grid not lining up with the Classroom grid which differs from site conditions.
 2. In order to extend the walls to the deck the grid on both sides of the walls will have to be removed approx. 3’ on either side.

3. As the Corridor is only 10' wide this leaves a 4' strip down the middle which could be left in place. However, Drawing A6.1.0 shows the center row as 2x2 grid but my photo shows it is 2x4.

Response: Main Corridor existing ceiling grid on 1st and 2nd floors shall be removed and replaced. Grid shall be 2x4 to match existing ceiling grids in Existing Building.

5. Statement: The ceiling grid in the Corridor between doors 14A and 107A is shown as 2x2 but my attached photo shows that it is 2x4. Please clarify if this ceiling is to be removed and replaced with 2x2 or remain 2x4.

Response: This Corridor shall be considered as an extension of the Main Corridor and have the same scope of work. The existing ceiling grid / tiles shall be replaced with new 2x4 grid and tiles.

6. Statement: Will there be any other additional time allotted where we can gain access to allow our subcontractors to examine existing conditions.

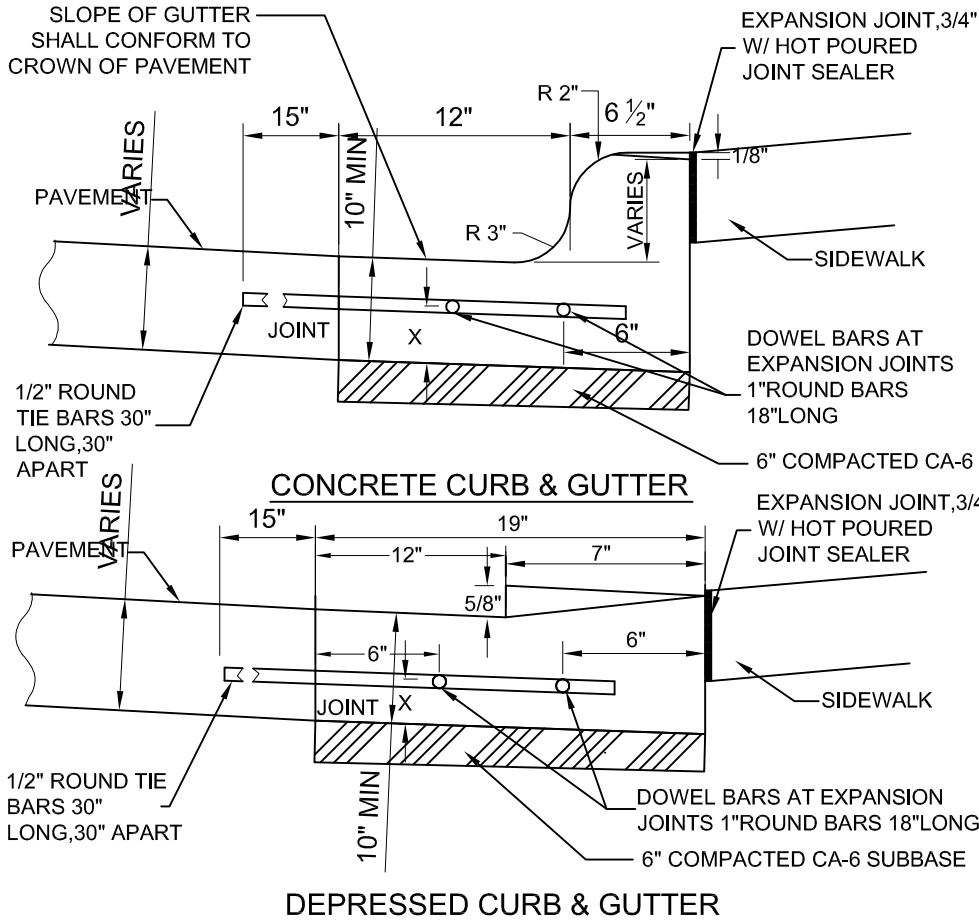
Response: The PBC held a site visit on February 18, 2015. At this time, no other site visits are scheduled for this project. If that changes, you will be notified via an Addenda.

List of Attachments and Drawings:

(Available at Cross Rhodes Reprographics online plan room: <http://www.x-rhodes.com>)

1. This Addendum includes the following attached Documents and Specification Sections:
 - a. Book 1 – No Attachments
 - b. Book 2 – No Attachments
 - c. Book 3 – No Attachments
2. This Addendum includes the following attachments:
 - CSK-001 dated 02/26/2015
 - ASK-001 thru ASK-006 dated 02/26/2015
 - SSK-001 thru SSK-006 dated 02/26/2015
 - MSK-001 dated 02/26/2015
 - ESK-001 thru ESK-008 dated 02/26/2015
3. This Addendum includes the following re-issued Drawings:
 - C1.4.1 dated 02/26/2015
 - C1.5.2 dated 02/26/2015
 - A1.1.0 dated 02/26/2015
 - A1.2.0 dated 02/26/2015
 - A9.1.0 dated 02/26/2015
 - A9.2.0 dated 02/26/2015
 - M7.0.1 dated 02/26/2015
 - M7.0.2 dated 02/26/2015

END OF ADDENDUM NO.1



X = ONE HALF THE THICKNESS OF CONCRETE PAVEMENT

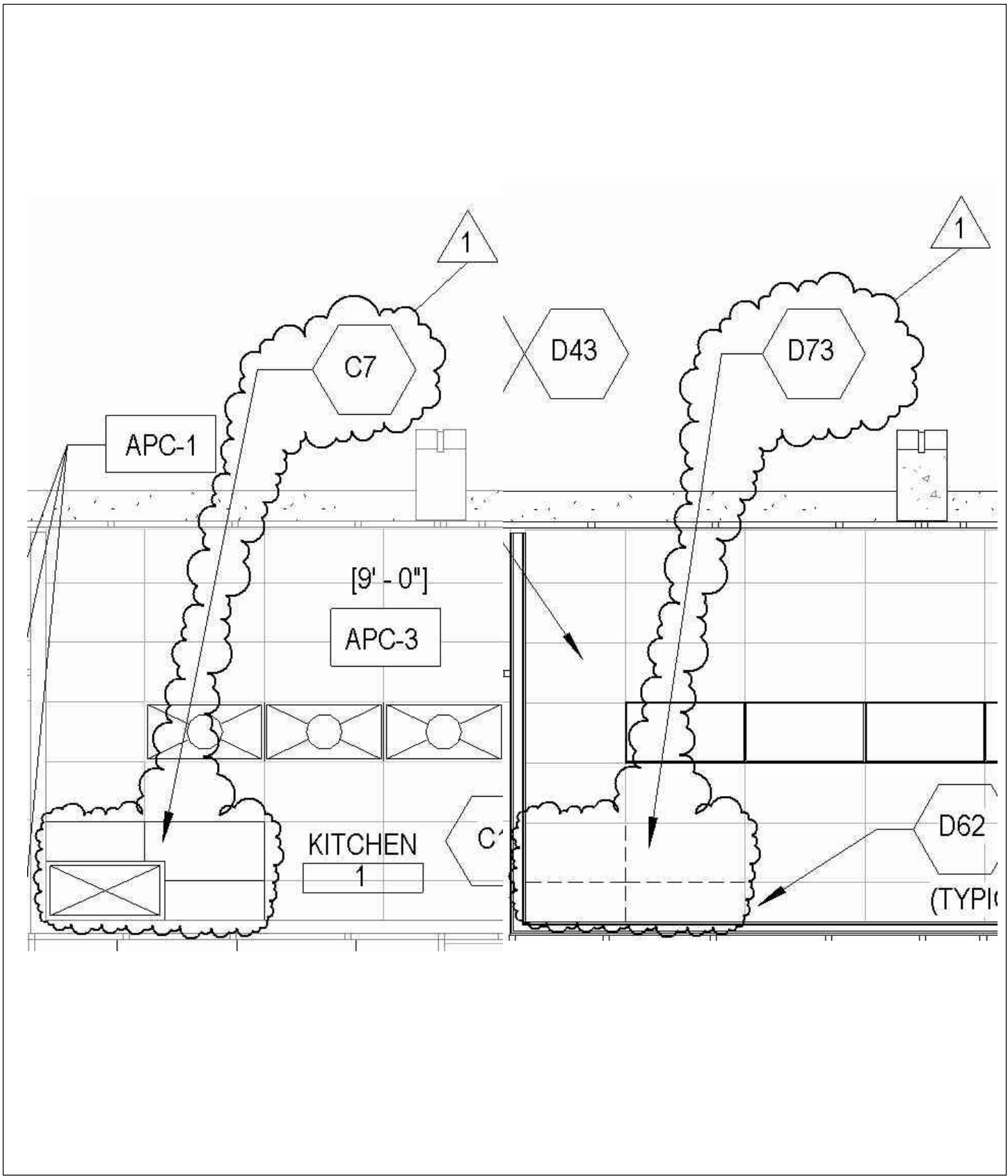
NOTES:

1. TRANSVERSE JOINTS OF A TYPE SIMILAR TO THAT USED IN THE ADJACENT PAVEMENT SHALL BE INSTALLED AND ALIGNED WITH THE JOINTS IN THE ADJACENT PAVEMENT.
2. 1" THICK EXPANSION JOINTS COMPOSED OF BITUMINOUS PERFORMED JOINT FILLER SHALL BE INSTALLED IN THE CURB AND/OR GUTTER AT POINTS OF CURVATURE AND AT CONSTRUCTION JOINTS.
3. WHEN CURB & GUTTER IS CONSTRUCTED ADJACENT TO A FLEXIBLE BASE, TRACTION JOINTS SHALL ALSO BE PLACED BETWEEN EXPANSION JOINTS AT DISTANCES NOT EXCEEDING 20 FEET.
4. ALL TIE BARS SHALL BE CORRUGATED AND ALL DOWEL BARS SHALL BE SMOOTH.
5. ALL TIE BARS AND DOWEL BARS SHALL BE EPOXY COATED.
6. TIE BARS NOT REQUIRED ADJACENT TO PERMEABLE PAVERS AND BASE.
7. ALL EXPANSION JOINTS IN CURBING SHALL BE SEALED WITH JOINT SEALER.

5 CONCRETE CURB AND GUTTER

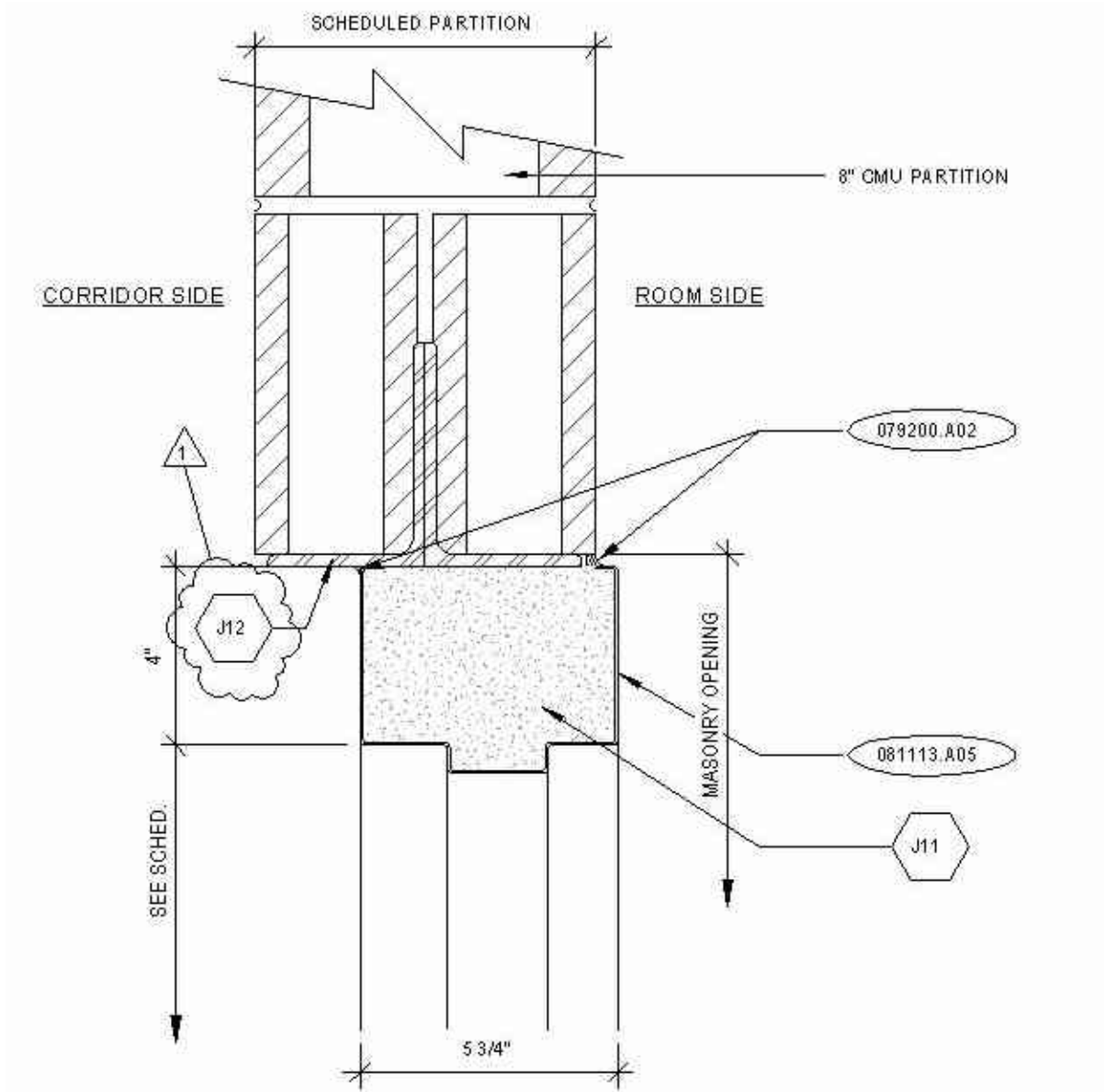
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PROJECT DUNNE TECHNOLOGY ACADEMY MODERNIZATION		TITLE REVISE NOTE 7, DETAIL #5	
FGM ARCHITECTS <small>CHICAGO OAK BROOK OFALLON ST. LOUIS</small>	DRAWN Author	DATE 02/26/2015	SHEET NO. CSK-001
	APPROVED Approver	JOB NO. 15-1950.01	ISSUED AS ADD #1
PROFESSIONAL DESIGN FIRM - IL # 184-000350			



PROJECT DUNNE TECHNOLOGY ACADEMY MODERNIZATION	TITLE KITCHEN CEILING DEMOLITION
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<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <h2 style="margin: 0;">FGM ARCHITECTS</h2> <p style="font-size: small; margin: 0;">CHICAGO OAK BROOK O'FALLON ST. LOUIS</p> </div> <div style="text-align: center;"> <p style="margin: 0;">DRAWN RV</p> <p style="margin: 0;">DATE 02/26/2015</p> </div> </div>	<p style="font-size: small; margin: 0;">SHEET NO.</p> <h1 style="margin: 0;">ASK-001</h1>
	<p style="margin: 0;">APPROVED JA</p> <p style="margin: 0;">PBC JOB NO. 05440</p>
PROFESSIONAL DESIGN FIRM - IL # 184-000350	



H2 HEAD DETAIL

3" = 1'-0"

PROJECT DUNNE TECHNOLOGY ACADEMY
MODERNIZATION

TITLE ADD INTUMESCENT PAINT TO ALL
LINTELS IN RATED PARTITIONS/WALLS

FGM ARCHITECTS

CHICAGO OAK BROOK O'FALLON ST. LOUIS

DRAWN
RV

DATE
02/26/2015

SHEET NO.

ASK-002

APPROVED
JA

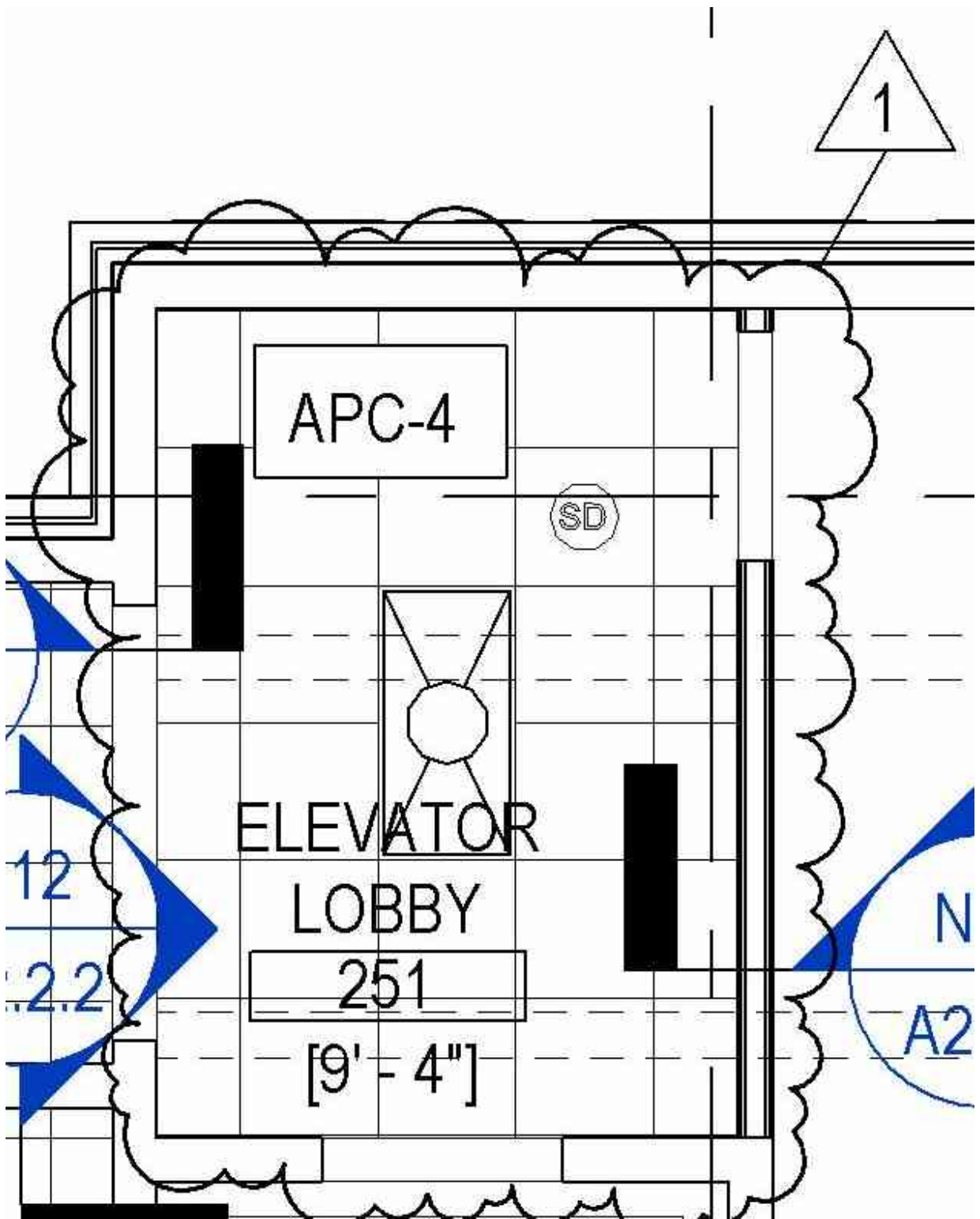
PBC JOB NO.
05440

ISSUED AS

ADD #1

PROFESSIONAL DESIGN FIRM - IL # 184-000350





PROJECT DUNNE TECHNOLOGY ACADEMY
MODERNIZATION

TITLE CEILING @ ELEVATOR LOBBY 251

FGM ARCHITECTS

CHICAGO OAK BROOK O'FALLON ST. LOUIS

DRAWN
RV

DATE
02/26/2015

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JA

PBC JOB NO.
05440

SHEET NO.

ASK-003

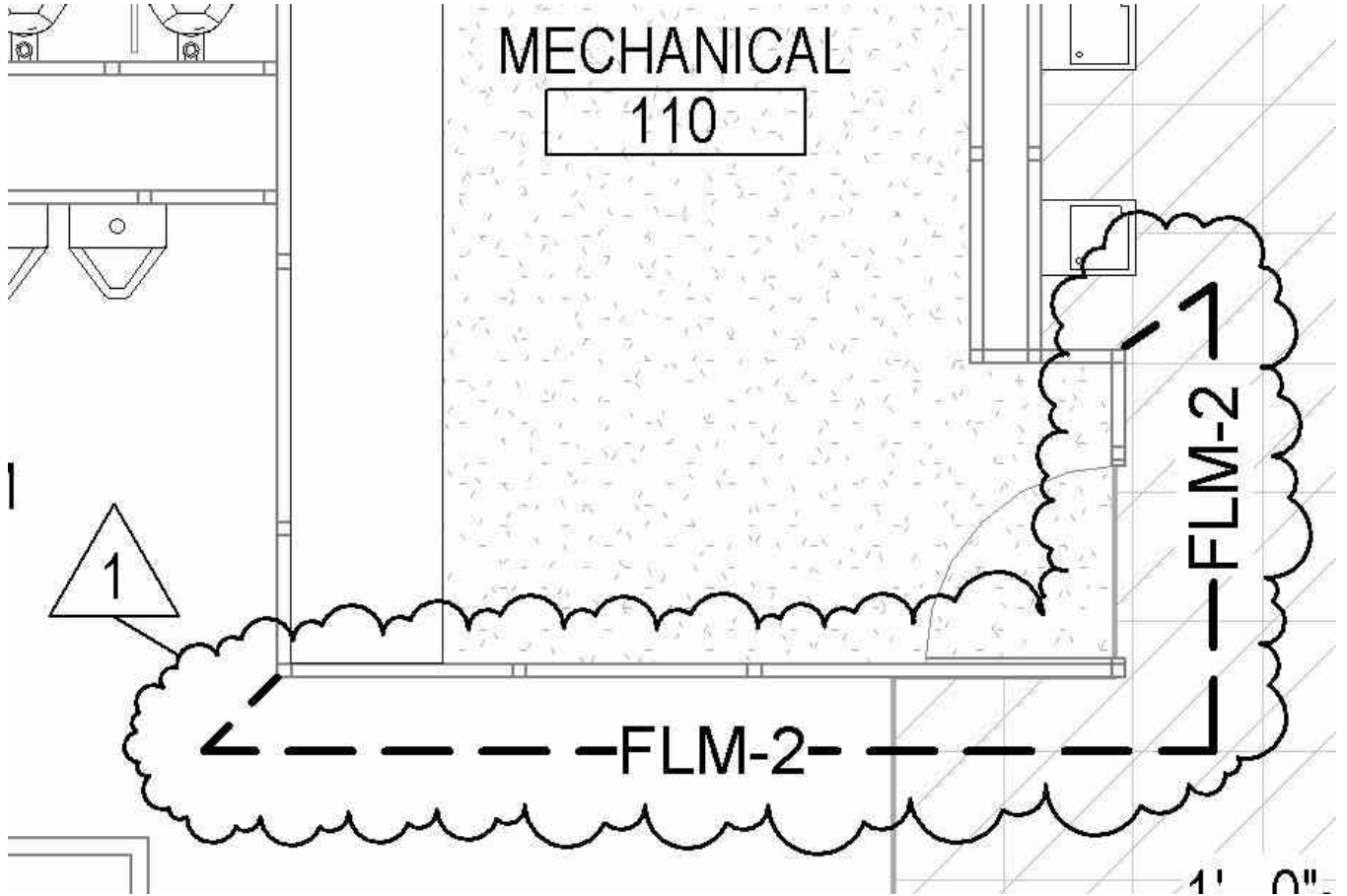
ISSUED AS

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PROJECT DUNNE TECHNOLOGY ACADEMY
MODERNIZATION

TITLE FIRST FLOOR WALL COVERINGS

FGM ARCHITECTS

CHICAGO OAK BROOK O'FALLON ST. LOUIS

DRAWN
RV

DATE
02/26/2015

APPROVED
JA

PBC JOB NO.
05440

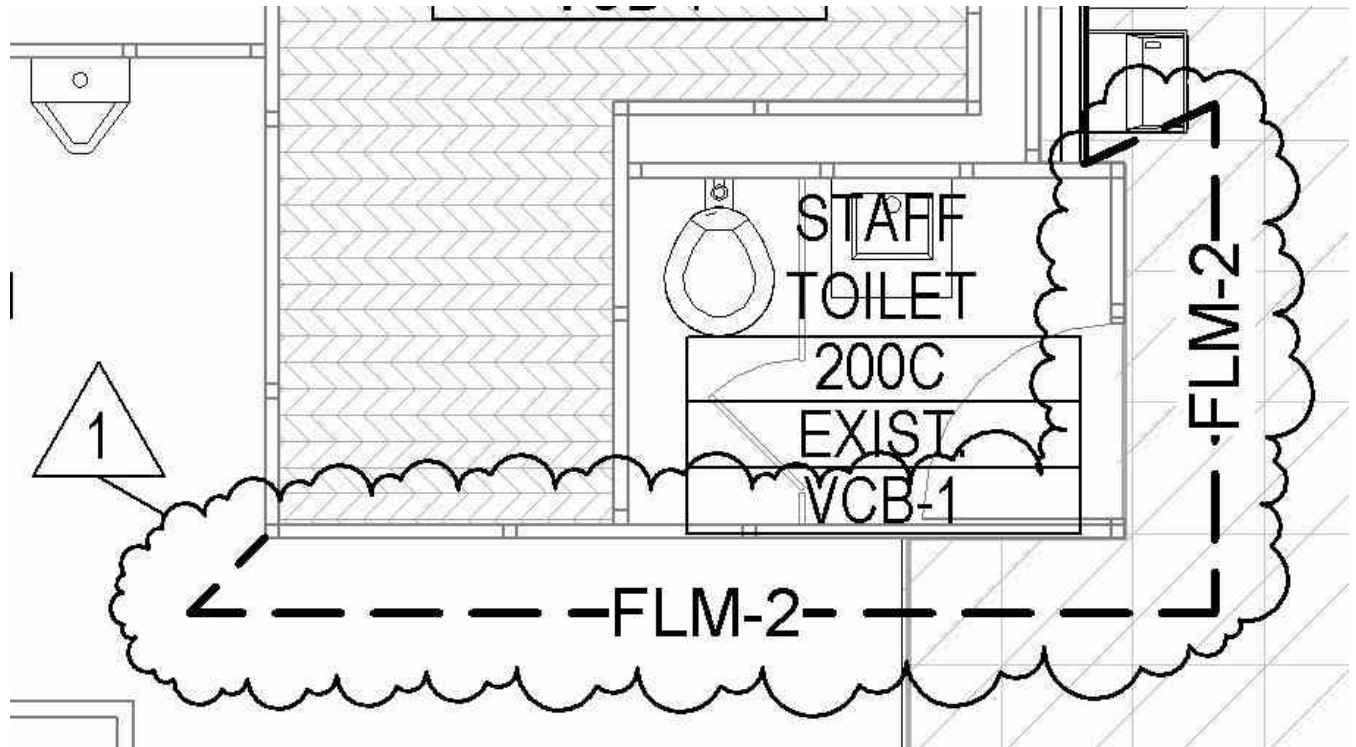
SHEET NO.
ASK-004

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PROJECT DUNNE TECHNOLOGY ACADEMY
MODERNIZATION

TITLE SECOND FLOOR WALL COVERINGS

FGM ARCHITECTS

CHICAGO OAK BROOK O'FALLON ST. LOUIS

DRAWN
RV

DATE
02/26/15

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05440

SHEET NO.
ASK-005

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1/4" THICK 8-1/2" X 11" ACRYLIC SIGN

NO SMOKING

WITHIN 15 FT OF ENTRYWAY



INCLUDING E-CIGARETTES

If you see someone smoking, please notify the manager.

If the problem persists, please call 311 and report it.



PROJECT DUNNE TECHNOLOGY ACADEMY
MODERNIZATION

TITLE "NO SMOKING" SIGN

FGM ARCHITECTS

CHICAGO OAK BROOK O'FALLON ST. LOUIS

DRAWN
RV

DATE
02/26/2015

SHEET NO.
ASK-006

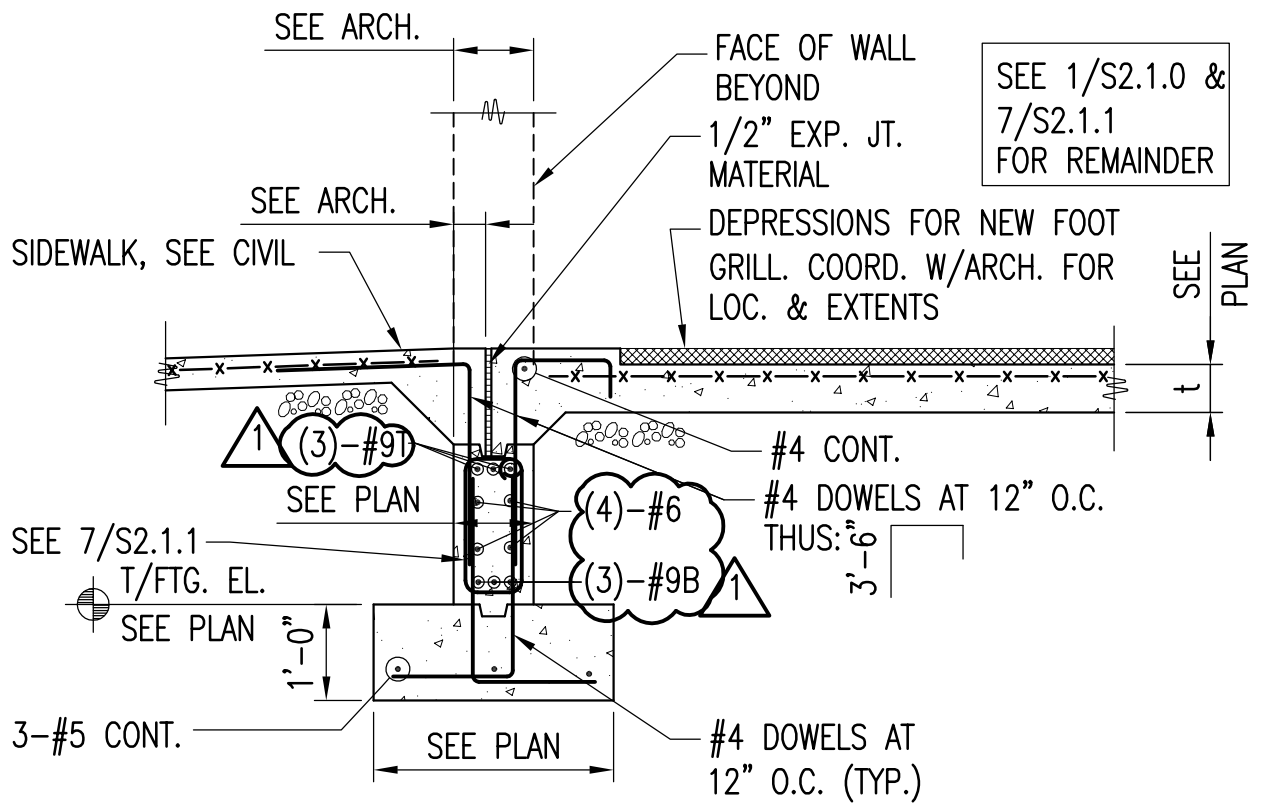
APPROVED
JA

PBC JOB NO.
05440

ISSUED AS
ADD #1

PROFESSIONAL DESIGN FIRM - IL # 184-000350





5

SECTION AT THRESHOLD

S2.1.1 1/2"=1'-0"

MATRIX ENGINEERING CORP.
 33 W. Jackson Blvd. 4th Floor
 Chicago, IL 60604-3901
 Structural

REF DWG. NO. S2.1.1

PROJECT **DUNNE TECHNOLOGY ACADEMY
 MODERNIZATION**

TITLE **FOUNDATION SECTION/DETAIL**

FGM ARCHITECTS

CHICAGO OAK BROOK OFALLON ST. LOUIS

DRAWN
 MATRIX

DATE
 02/26/2015

SHEET NO.
SSK-001

APPROVED
 MATRIX

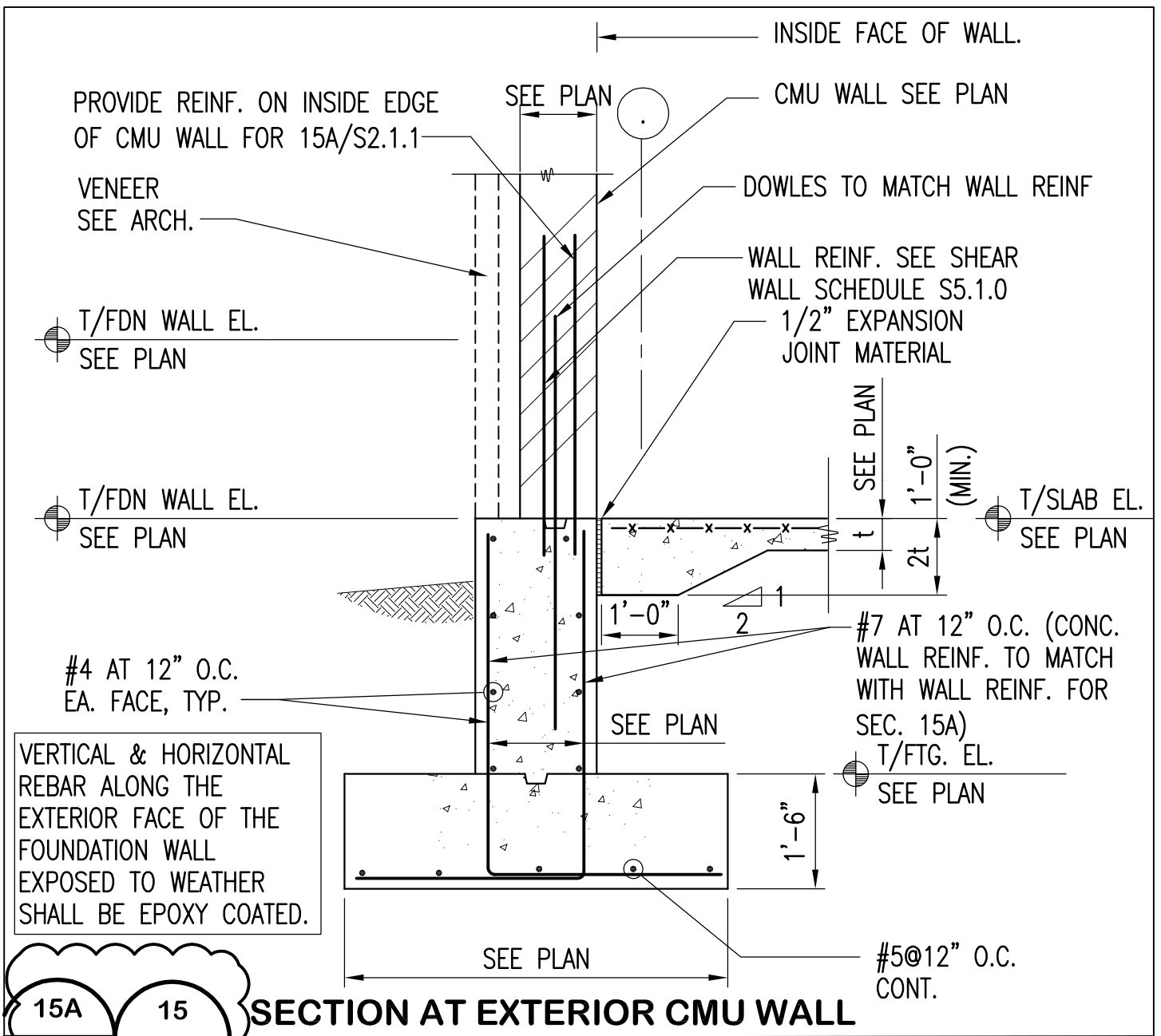
JOB NO.
 15-1950.01

ISSUED AS
ADD #1

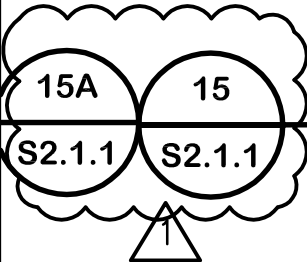
PROFESSIONAL DESIGN FIRM - IL # 184-000350



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VERTICAL & HORIZONTAL REBAR ALONG THE EXTERIOR FACE OF THE FOUNDATION WALL EXPOSED TO WEATHER SHALL BE EPOXY COATED.



SECTION AT EXTERIOR CMU WALL

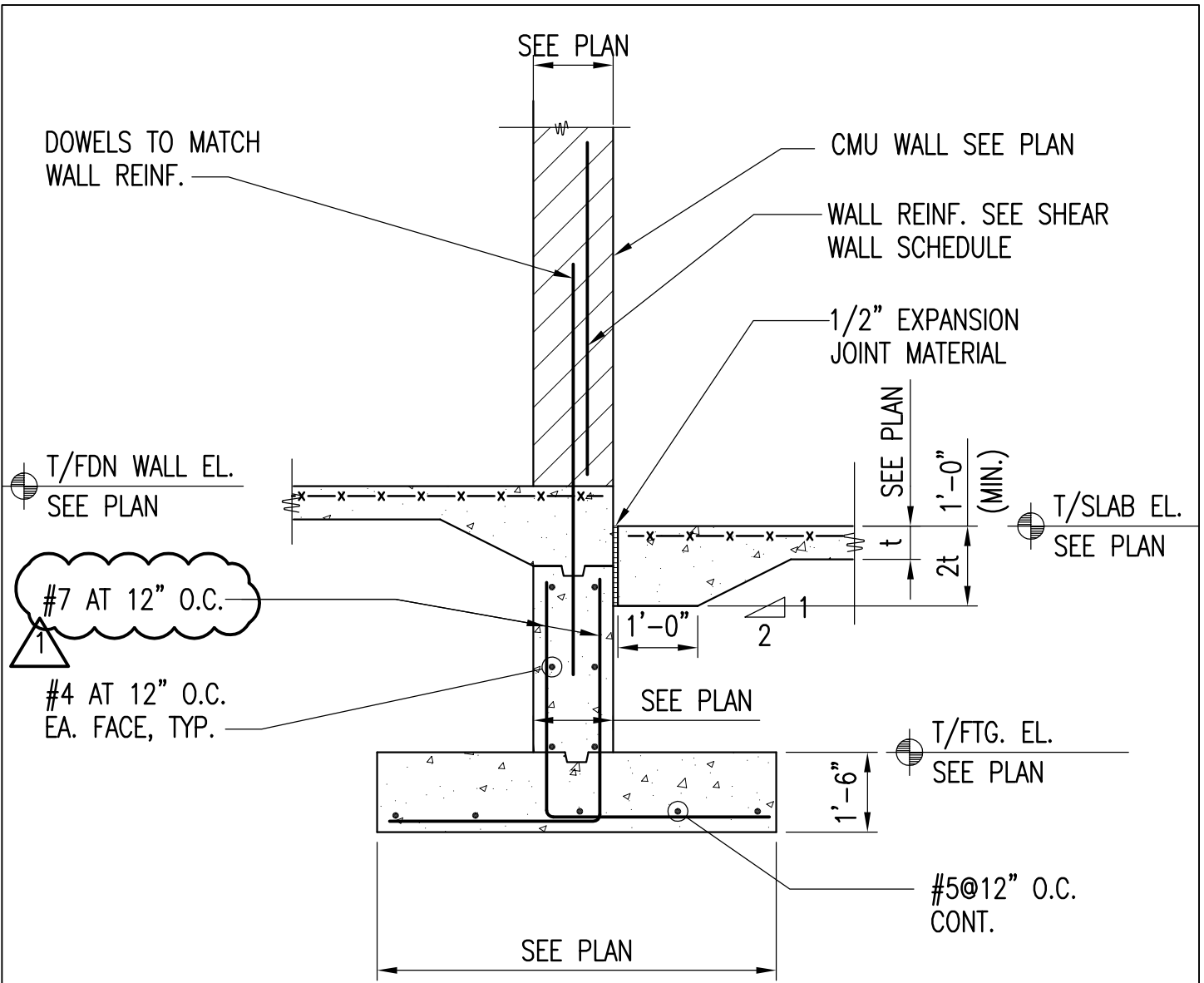
1/2" = 1'-0"

MATRIX ENGINEERING CORP.
 33 W. Jackson Blvd. 4th Floor
 Chicago, IL 60604-3901
 Structural

REF DWG. NO. S2.1.1

PROJECT DUNNE TECHNOLOGY ACADEMY MODERNIZATION		TITLE FOUNDATION SECTION/DETAIL	
	DRAWN MATRIX	DATE 02/26/2015	SHEET NO. SSK-002
	APPROVED MATRIX	JOB NO. 15-1950.01	ISSUED AS ADD #1
PROFESSIONAL DESIGN FIRM - IL # 184-000350			

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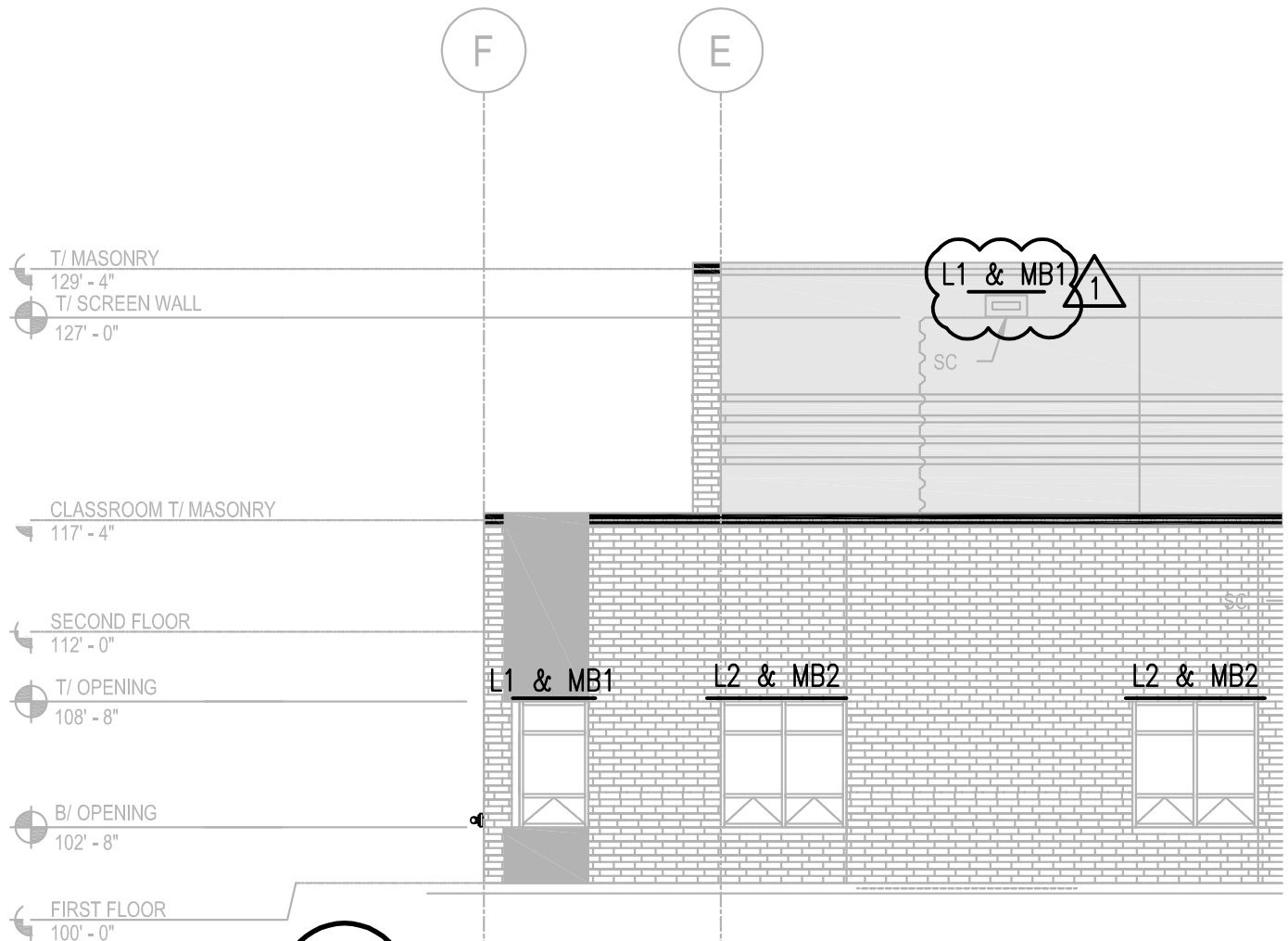


17 **TYP. SECTION AT INTERIOR CMU SHEAR WALL**
S2.1.1 1/2"=1'-0"

MATRIX ENGINEERING CORP.
 33 W. Jackson Blvd. 4th Floor
 Chicago, IL 60604-3901
 Structural

REF DWG. NO. S2.1.1

PROJECT DUNNE TECHNOLOGY ACADEMY MODERNIZATION		TITLE FOUNDATION SECTION/DETAIL	
FGM ARCHITECTS <small>CHICAGO OAK BROOK O'FALLON ST. LOUIS</small>		DRAWN MATRIX	DATE 02/26/2015
		APPROVED MATRIX	JOB NO. 15-1950.01
PROFESSIONAL DESIGN FIRM - IL # 184-000350		SHEET NO. SSK-003 ISSUED AS ADD #1	



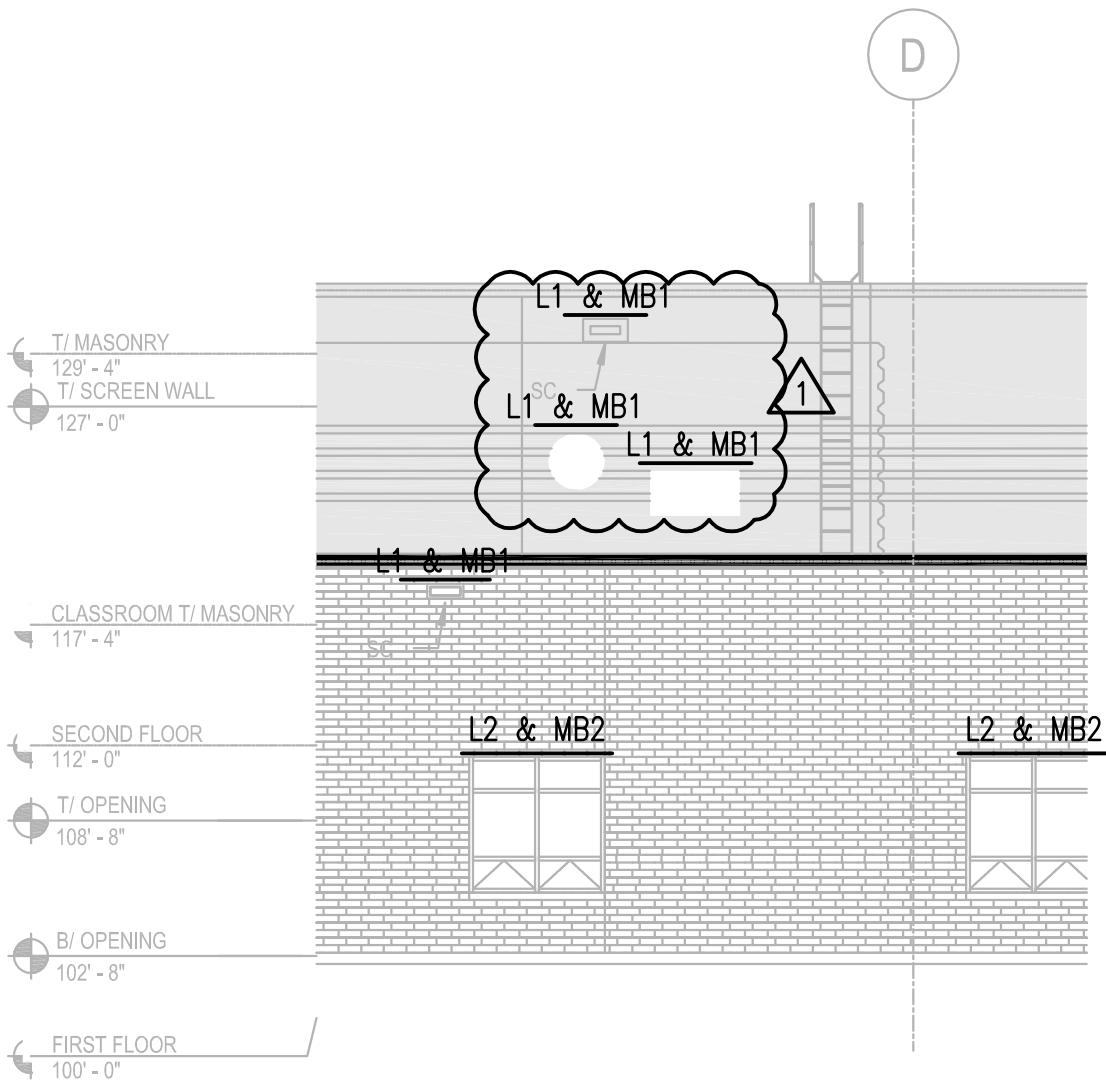
2
S6.1.0
NORTH BUILDING ELEVATION - PARTIAL
 1/8" = 1'-0"

- ELEVATION NOTES**
1. REFER TO LINTEL SCHEDULE ON S5.1.0 FOR SIZES
 2. COORDINATE OPENING SIZES WITH ARCH DWGS.

MATRIX ENGINEERING CORP.
 33 W. Jackson Blvd. 4th Floor
 Chicago, IL 60604-3901
 Structural

REF DWG. NO. S6.1.0

PROJECT DUNNE TECHNOLOGY ACADEMY MODERNIZATION		TITLE ELEVATION	
FGM ARCHITECTS <small>CHICAGO OAK BROOK O'FALLON ST. LOUIS</small>		DRAWN MATRIX	DATE 02/26/2015
PROFESSIONAL DESIGN FIRM - IL # 184-000350		APPROVED MATRIX	JOB NO. 15-1950.01
		SHEET NO. SSK-004 ISSUED AS ADD #1	



2
NORTH BUILDING ELEVATION - PARTIAL

S6.1.0
1/8"=1'-0"

ELEVATION NOTES

1. REFER TO LINTEL SCHEDULE ON S5.1.0 FOR SIZES
2. COORDINATE OPENING SIZES WITH ARCH DWGS.

MATRIX ENGINEERING CORP.

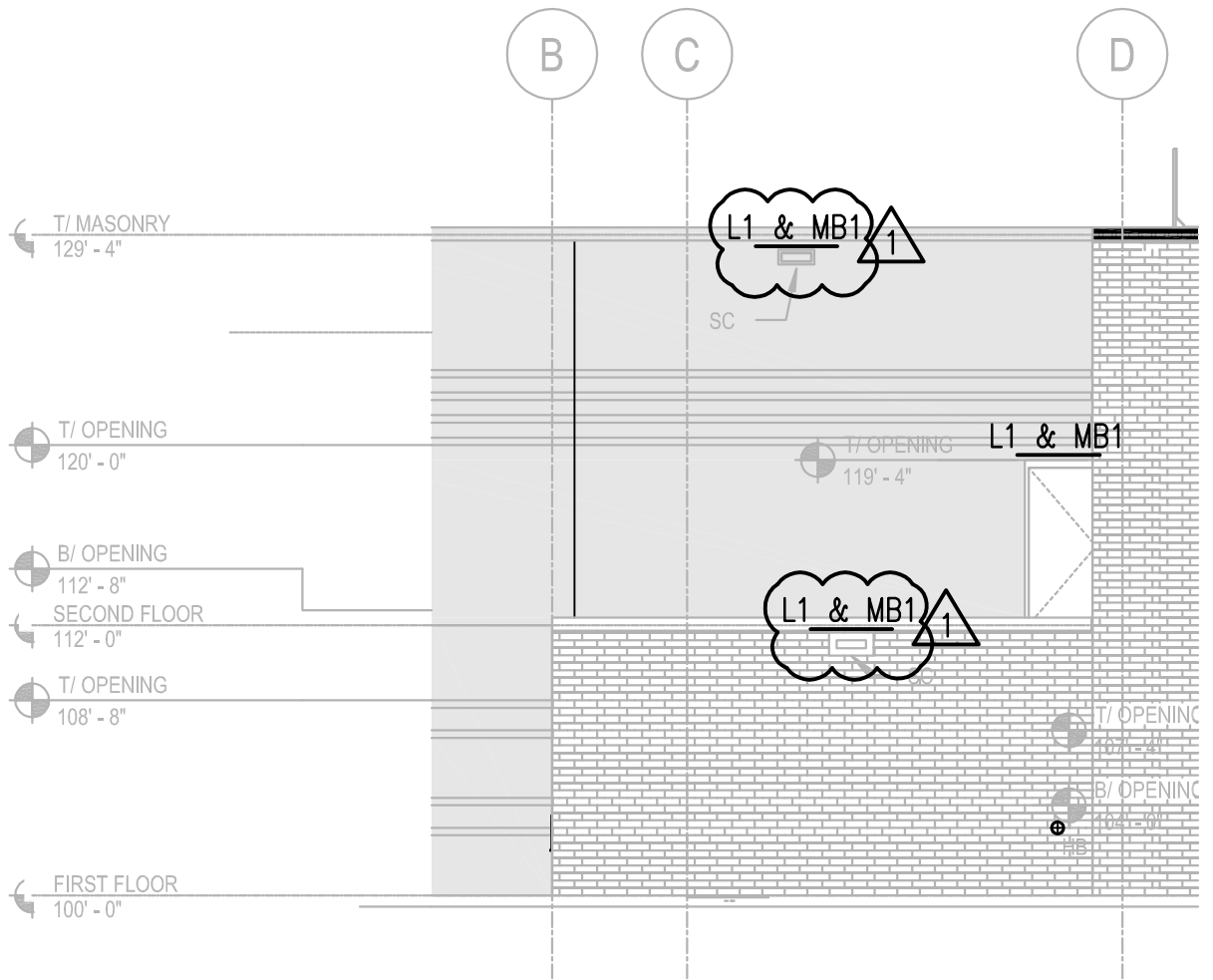
33 W. Jackson Blvd. 4th Floor
 Chicago, IL 60604-3901
 Structural

REF DWG. NO. S6.1.0

PROJECT DUNNE TECHNOLOGY ACADEMY MODERNIZATION		TITLE ELEVATION	
FGM ARCHITECTS <small>CHICAGO OAK BROOK O'FALLON ST. LOUIS</small>		DRAWN MATRIX	DATE 02/26/2015
PROFESSIONAL DESIGN FIRM - IL # 184-000350		APPROVED MATRIX	JOB NO. 15-1950.01
		SHEET NO. SSK-005 ISSUED AS ADD #1	

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3
SOUTH BUILDING ELEVATION - PARTIAL
S6.1.0 1/8"=1'-0"

ELEVATION NOTES

1. REFER TO LINTEL SCHEDULE ON S5.1.0 FOR SIZES
2. COORDINATE OPENING SIZES WITH ARCH DWGS.

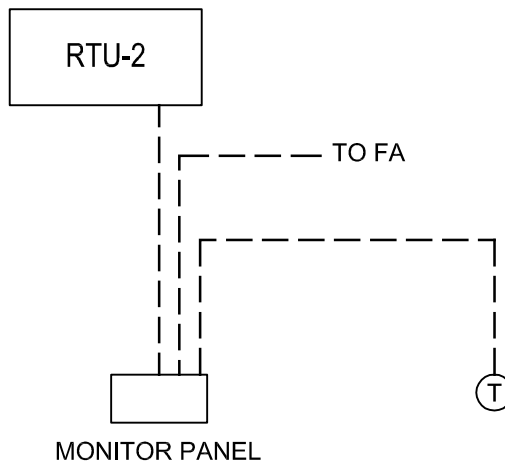
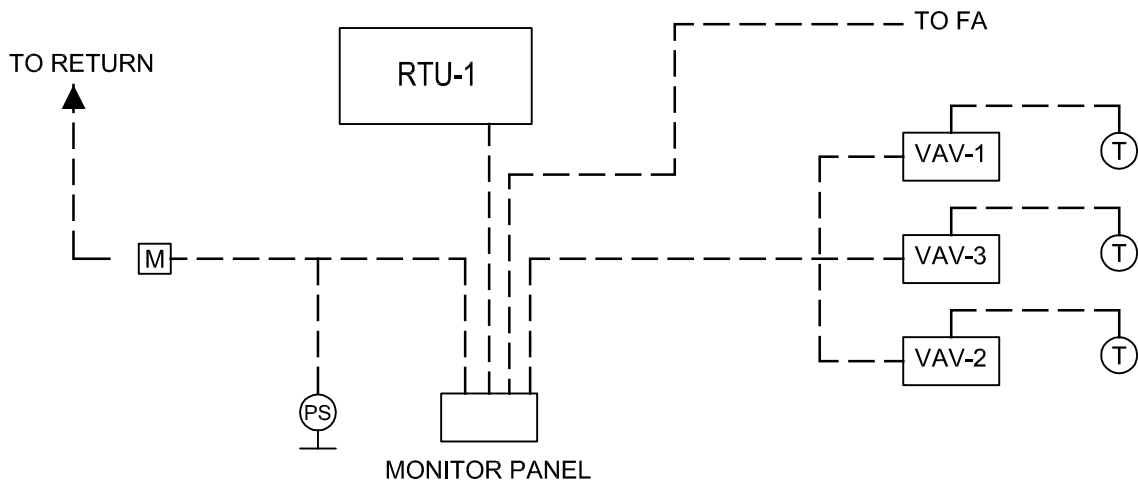
MATRIX ENGINEERING CORP.
 33 W. Jackson Blvd. 4th Floor
 Chicago, IL 60604-3901
 Structural

REF DWG. NO. S6.1.0

PROJECT DUNNE TECHNOLOGY ACADEMY MODERNIZATION		TITLE ELEVATION		
<b style="font-size: 1.5em;">FGM ARCHITECTS <small>CHICAGO OAK BROOK O'FALLON ST. LOUIS</small>		DRAWN MATRIX	DATE 02/26/2015	SHEET NO. <b style="font-size: 1.5em;">SSK-006
APPROVED MATRIX		JOB NO. 15-1950.01	ISSUED AS <b style="font-size: 1.5em;">ADD #1	
PROFESSIONAL DESIGN FIRM - IL # 184-000350				

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NOTE: CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT AND WIRING BETWEEN MONITORING PANELS, RTU, VAVS, DAMPERS, SENSORS, AND BACK TO EXISTING FIRE ALARM PANEL



PROJECT **DUNNE TECHNOLOGY ACADEMY
MODERNIZATION**

TITLE **MSK-1-M3-RTU-1&2 SCHEMATICS**

FGM ARCHITECTS

CHICAGO OAK BROOK O'FALLON ST. LOUIS

DRAWN
JA

DATE
02/26/2015

SHEET NO.
MSK-001

APPROVED
MB

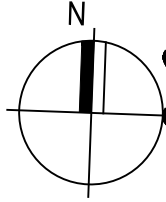
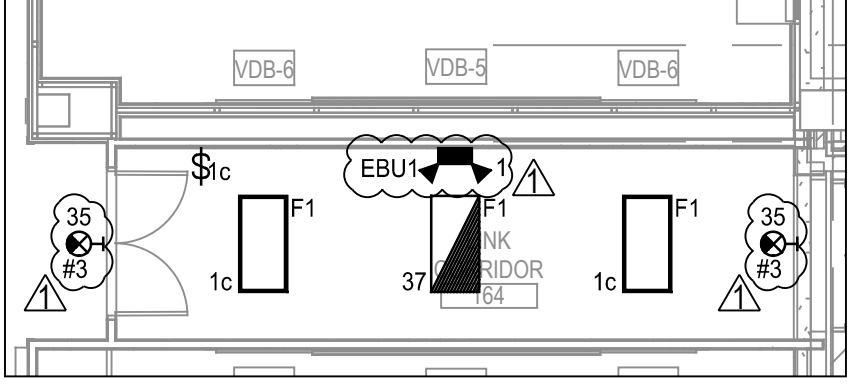
PBC JOB NO.
05440

ISSUED AS
ADD #1

PROFESSIONAL DESIGN FIRM - IL # 184-000350



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PROJECT **DUNNE TECHNOLOGY ACADEMY
MODERNIZATION**

FGM ARCHITECTS
CHICAGO OAK BROOK O'FALLON ST. LOUIS

PROFESSIONAL DESIGN FIRM - IL # 184-000350

TITLE **Electrical 1st floor lighting plan,
link corridor revisions**

DRAWN
AP

DATE
02/26/2015

APPROVED
MM

PBC JOB NO.
05440

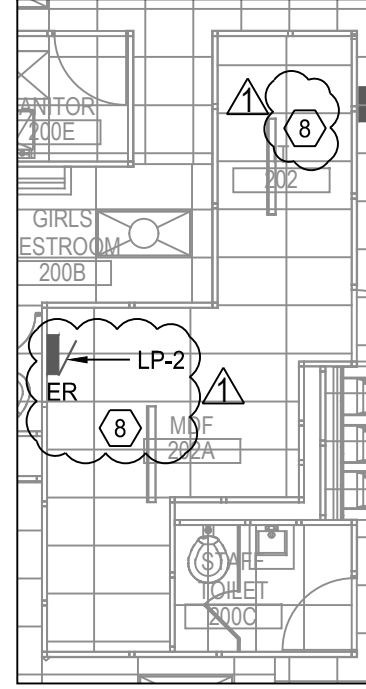
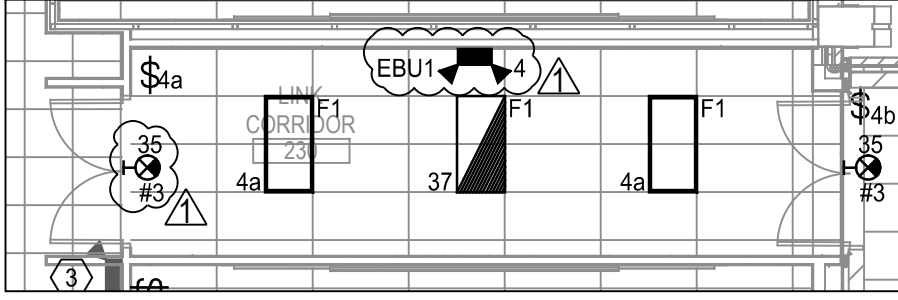
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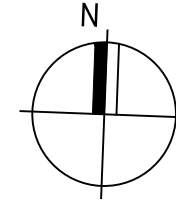
ADD #1





KEYNOTES - SHEET

KEY NUMBER	DESCRIPTION
1	<p>IF FIXTURE WAS DETERMINED TO NEED REPLACEMENT, PROVIDE NEW FIXTURE TO MATCH EXISTING. QUANTITY OF FIXTURE REPLACEMENT ASSUMED TO BE 20%. IF FIXTURE WAS DETERMINED AS BEING RELOCATED CONTRACTOR SHALL REINSTALL FIXTURE IN LOCATION AS REQUIRED. REUSE EXISTING CONDUIT AND WIRING. DOCUMENT CIRCUIT NUMBERS FOR ALL FIXTURES.</p>
2	<p>LIGHTING CONTROLS FOR GYM FIXTURES LOCATED ON THE FIRST FLOOR NEAR THE DOORS. REFER TO DRAWING E1.1.1.</p>
3	<p>REPLACE BATTERY PACKS AND LIGHT BULBS IN EXISTING EMERGENCY FIXTURES. AFTER REPLACEMENT, RETEST ALL FIXTURES. REPLACE ANY FIXTURES THAT ARE STILL NON-FUNCTIONAL WITH A NEW EBU PER FIXTURE SCHEDULE ON SHEET E7.0.1</p>
4	<p>REINSTALL FIXTURES WHICH WERE REMOVED FROM THIS ROOM DURING DEMOLITION. CONNECT TO EXISTING WIRING.</p>
5	<p>FIXTURE SHALL BE MOUNTED BELOW THE TOP OF THE PARAPET WALL.</p>
6	<p>FIXTURE SHALL BE MOUNTED AT 24' ABOVE GRADE.</p>
7	<p>PROVIDE LABEL INDICATING SWITCH IS FOR CONTROLLING ROOFTOP LIGHTS.</p>
8	<p>PROVIDE NEW LENSE FOR EXISTING LIGHT FIXTURE.</p>



PROJECT DUNNE TECHNOLOGY ACADEMY MODERNIZATION

TITLE Electrical 2nd floor lighting plan, link corridor and MDF room revisions

DRAWN AP

APPROVED MM

DATE 02/26/2015

PBC JOB NO. 05440

SHEET NO.

ESK-002

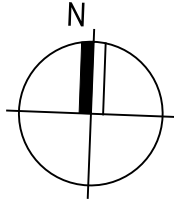
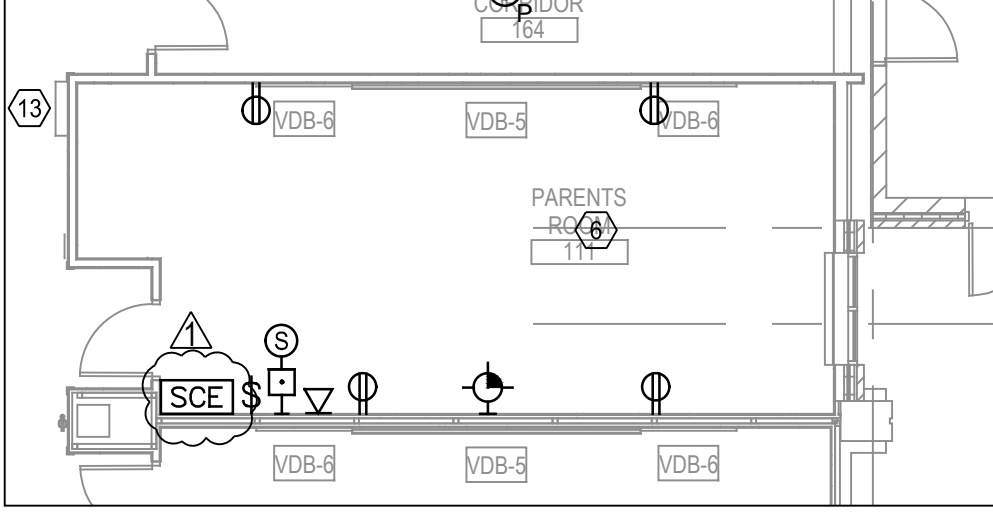
ISSUED AS

ADD #1

CHICAGO OAK BROOK O'FALLON ST. LOUIS

PROFESSIONAL DESIGN FIRM - IL # 184-000350





PROJECT **DUNNE TECHNOLOGY ACADEMY
MODERNIZATION**

TITLE **Electrical 1st floor power plan,
Parents Room**

FGM ARCHITECTS
CHICAGO OAK BROOK O'FALLON ST. LOUIS

DRAWN
AP

APPROVED
MM

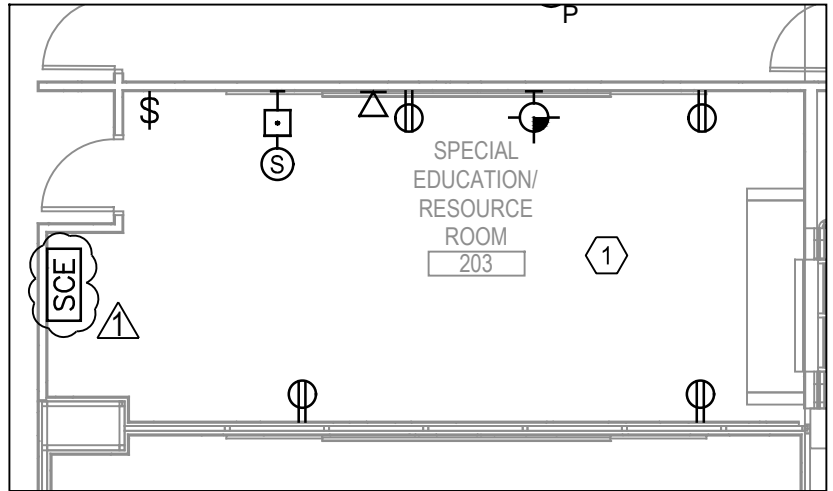
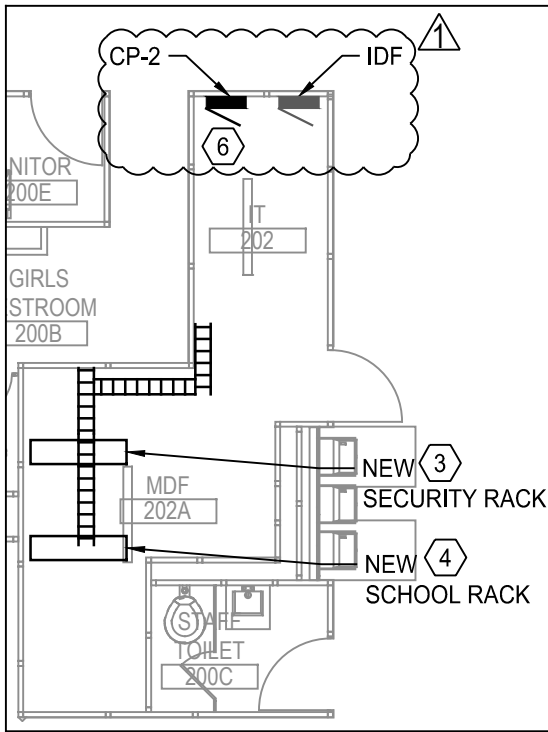
DATE
02/26/2015

PBC JOB NO.
05440

SHEET NO.
ESK-003

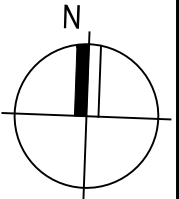
ISSUED AS
ADD #1





KEYNOTES - SHEET

KEY NUMBER	DESCRIPTION
1	ALL EXISTING DEVICES IN THIS CLASSROOM SHALL BE REINSTALLED AS REQUIRED. PROVIDE BOX EXTENSION TO ACCOMMODATE NEW DRYWALL AND METAL STUD THICKNESS. DEVICE LOCATIONS SHOWN FOR REFERENCE ONLY. COORDINATE WITH ARCHITECTURAL DRAWINGS.
2	FED FROM CIRCUIT #23 IN EXISTING KITCHEN POWER PANEL. REFER TO E2.1.1.
3	PROVIDE NEW SECURITY RACK IN EXISTING MDF ROOM TO SERVE NEW ANNEX BUILDING. PROVIDE NEW CABLE TRAY FROM EXISTING SECURITY RACK TO NEW SECURITY RACK. REFER TO DETAILS ON DRAWING E9.0.7.
4	PROVIDE NEW POWER RACK IN EXISTING MDF ROOM TO SERVE NEW ANNEX BUILDING. PROVIDE NEW CABLE TRAY FROM EXISTING POWER RACK TO NEW POWER RACK. REFER TO DETAILS ON DRAWING E9.0.7.
5	REINSTALL EXISTING PANEL. EXTEND CONDUIT AND WIRING AS REQUIRED.
6	PROVIDE (3) CIRCUITS FROM NEW PANEL CP-2 TO FEED THE NEW SECURITY RACK AND (3) CIRCUITS TO FEED THE NEW POWER RACK.



PROJECT **DUNNE TECHNOLOGY ACADEMY MODERNIZATION**

TITLE **Electrical 2nd floor power plan, IT/MDF and Special Ed/Resource rooms**

FGM ARCHITECTS

CHICAGO OAK BROOK O'FALLON ST. LOUIS

DRAWN
AP

DATE
02/26/2015

SHEET NO.
ESK-004

APPROVED
MM

PBC JOB NO.
05440

ISSUED AS
ADD #1

PROFESSIONAL DESIGN FIRM - IL # 184-000350



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CABLE AND CONDUIT SCHEDULE

FEEDER TAG NUMBER	AMPACITY	CONDUIT SIZE	SETS	FEEDER	CONDUIT TYPE	FUNCTION	FROM	TO
F1	3200A	5"	2	N/A	PVC	UTILITY FEED	COMED POLE	OUTDOOR TRANSFORMER
F2	1200A	3 1/2"	4	4#400KCML, #1/0G	PVC	UTILITY FEED	OUTDOOR TRANSFORMER	NEW DISTRIBUTION SWITCHBOARD SWBD-2
F3	125A	2"	1	4#2/0, #4G	PVC	FIRE PUMP CONTROLLER FEED	OUTDOOR TRANSFORMER	FIRE PUMP CONTROLLER
F4	2000A	4"	5	4#750KCML, #2/0G	PVC	EXISTING BUILDING FEED	OUTDOOR TRANSFORMER	EXISTING DISTRIBUTION SWITCHBOARD SWBD-1
F5	150A	2"	1	4#1/0, #6G	RGS	FEED TO BRANCH CIRCUIT PANEL	DISTRIBUTION SWITCHBOARD SWBD-2	BRANCH CIRCUIT PANEL LP-3
F6	200A	2 1/2"	1	3#3/0, #6G	RGS	FEED TO ROOF TOP UNIT	DISTRIBUTION SWITCHBOARD SWBD-2	ROOF TOP UNIT RTU-1
F7	300A	3 1/2"	1	3#350KCML, #4G	RGS	FEED TO ROOF TOP UNIT	DISTRIBUTION SWITCHBOARD SWBD-2	ROOF TOP UNIT RTU-2
F8	20A	3/4"	1	3#12, #12G	RGS	FEED TO BOOSTER PUMP	DISTRIBUTION SWITCHBOARD SWBD-2	BOOSTER PUMP DBP-1
F9	150A	2"	1	4#1/0, #6G	RGS	FEED TO BRANCH CIRCUIT PANEL	DISTRIBUTION SWITCHBOARD SWBD-2	BRANCH CIRCUIT PANEL PP-3
F10	150A	2"	1	3#1/0, #6G	RGS	FEED TO WATER HEATER	DISTRIBUTION SWITCHBOARD SWBD-2	WATER HEATER WH-1
F11	150A	2"	1	3#1/0, #6G	RGS	FEED TO WATER HEATER	DISTRIBUTION SWITCHBOARD SWBD-2	WATER HEATER WH-2
F12	2000A	N/A	5	4#750KCML, #250KCML G	N/A	EXISTING BUILDING FEED	NEW MANHOLE	EXISTING DISTRIBUTION SWITCHBOARD SWBD-1
F13	100A	1 1/2"	1	3#1, #8G	RGS	FEED TO ELEVATOR	DISTRIBUTION SWITCHBOARD SWBD-2	ELEVATOR CONTROL PANEL
F14	100A	1 1/2"	1	4#1, #1N, #8G	RGS	FEED TO BRANCH CIRCUIT PANEL	DISTRIBUTION SWITCHBOARD SWBD-2	BRANCH CIRCUIT PANEL CP-1
F15	150A	2"	1	4#1/0, #6G	RGS	FEED TO BRANCH CIRCUIT PANEL	DISTRIBUTION SWITCHBOARD SWBD-2	BRANCH CIRCUIT PANEL LP-4
F16	125A	2"	1	4#1/0, #6G	RGS	FIRE PUMP FEED	FIRE PUMP CONTROLLER	FIRE PUMP FP-1
F17	20A	3/4"	1	3#12, #12G	RGS	JOCKEY PUMP FEED	FIRE PUMP CONTROLLER	JOCKEY PUMP JP-1
F18	100A	1 1/2"	1	4#1, #1N, #8G	RGS	FEED TO BRANCH CIRCUIT PANEL	DISTRIBUTION SWITCHBOARD SWBD-2	BRANCH CIRCUIT PANEL CP-2

MOTOR WIRING SCHEDULE

TAG	DESCRIPTION	LOCATION	LOAD			FEED FROM		OCP			WIRING			DISCONNECT			SEE NOTES
			VOLT	PHASE	HF	KW	AMPS	PANEL	OCT	SIZE	POLE	NO.	SIZE	COND.	SIZE	POLE	
FP-1	FIRE PUMP	WATER PUMP 157	208	3	30	31.9	88.5	FPC		125A	3		REFER TO SINGLE LINE	200A	3	N	
DBP-1	DOMESTIC WATER BOOSTER PUMPS	WATER PUMP 157	208	3	2@2	2@2.71	15	SWBD-2		20A	3		REFER TO SINGLE LINE	30A	3	N	
JP-1	JOCKEY PUMP	WATER PUMP 157	208	3	1 1/2	2.07	5.8	FPC		20A	3	1	12 3/4"	30A	3	N	
EL-1	ELEVATOR	E. MACHINE 152	208	3	25	27.1	75.2	SWBD-2		100A	3		REFER TO SINGLE LINE	200A	3	Y	2
RTU-1	ROOF TOP UNIT	ROOF	208	3	3	50	141.1	SWBD-2		200A	3		REFER TO SINGLE LINE	200A	3	N	
RTU-2	ROOF TOP UNIT	ROOF	208	3	10	80	227	SWBD-2		300A	3		REFER TO SINGLE LINE	400A	3	N	
HWR-1	HOT WATER RETRUN	WATER PUMP 157	120	1		.041	.34	PP-3	30	20A	1	1	12 3/4"	30A	1	N	
WH-1	WATER HEATER	WATER PUMP 157	208	3		40	111	SWBD-2		150A	3		REFER TO SINGLE LINE	200A	3	N	
WH-2	WATER HEATER	WATER PUMP 157	208	3		40	111	SWBD-2		150A	3		REFER TO SINGLE LINE	200A	3	N	
VAV-1	VARIABLE AIR VOLUME UNIT	CORRIDOR 151	208	3		6	16.7	PP-3	7,9,11	30A	3	1	12 3/4"	30A	3	N	
VAV-2	VARIABLE AIR VOLUME UNIT	CORRIDOR 151	208	3		6	16.7	PP-3	13,15,17	30A	3	1	12 3/4"	30A	3	N	
VAV-3	VARIABLE AIR VOLUME UNIT	CORRIDOR 151	208	3		5	23.88	PP-3	14,16,18	30A	3	1	10 3/4"	30A	3	N	
EF-1	EXHAUST FAN	TOILET 154	120	1	1/30	.128	1.1	PP-3	27	20A	1	1	12 3/4"	30A	1	N	1
EF-2	EXHAUST FAN	E. MACHINE 152	120	1	1/80	.0935	.8	PP-3	29	20A	1	1	12 3/4"	30A	1	N	1
EF-3	EXHAUST FAN	KITCHEN	120	1	1/4	.896	5.8	PP-3	31	20A	1	1	12 3/4"	30A	1	N	
EF-8	EXHAUST FAN	SCIENCE STORAGE	120	1	1/4	.896	5.8	PP-3	32	20A	1	1	12 3/4"	30A	1	N	1
EF-9	EXHAUST FAN	ELEC. ROOM	120	1	1/4	.896	5.8	PP-3	34	20A	1	1	12 3/4"	30A	1	N	1
EF-10	EXHAUST FAN	KITCHEN	120	1	1/4	.896	5.8	PP-3	36	20A	1	1	12 3/4"	30A	1	N	1



TITLE Electrical schedules, cable and conduit schedule modification

PROJECT DUNNE TECHNOLOGY ACADEMY MODERNIZATION

FGM ARCHITECTS
CHICAGO OAK BROOK OF FALLON ST. LOUIS

SHEET NO. ESK-005

DATE 02/26/2015

DRAWN AP

ISSUED AS ADD #1

PBC JOB NO. 05440

APPROVED MM

PROFESSIONAL DESIGN FIRM - IL # 184-000350



PANEL SCHEDULE		DESIGNATION: CP-2 LOCATION: EXISTING MDF ROOM VOLTAGE: 208/120 VOLT PHASE: 3 PHASE, 4 WIRE						MAINS: 100 A BUS SIZE: 100 A PANEL MOUNTING: SURFACE ALL BREAKERS: 35,000 A.I.C. (MINIMUM)				
CKT. NO.	LOAD DESCRIPTION	VA	CKT. BKR.		VA			CKT. BKR.		VA	LOAD DESCRIPTION	CKT. NO.
			AMPS	POLE	A	B	C	AMPS	POLE			
1	SECURITY RACK	500	20	1	1,000			20	1	500	POWER RACK	2
3	SECURITY RACK	500	20	1		1,000		20	1	500	POWER RACK	4
5	SECURITY RACK	500	20	1			1,000	20	1	500	POWER RACK	6
7	SPARE		20	1	0			20	1		SPARE	8
9	SPARE		20	1		0		20	1		SPARE	10
11	SPARE		20	1			0	20	1		SPARE	12
13	SPARE		20	1	0			20	1		SPARE	14
15	SPARE		20	1		0		20	1		SPARE	16
17	SPARE		20	1			0	20	1		SPARE	18
19	SPARE		20	1	0			20	1		SPARE	20
21	SPARE		20	1		0		20	1		SPARE	22
23	SPARE		20	1			0	20	1		SPARE	24
25	SPARE		20	1	0			20	1		SPARE	26
27	SPARE		20	1		0		20	1		SPARE	28
29	SPARE		20	1			0	20	1		SPARE	30
31	SPARE		20	1	0			20	1		SPARE	32
33	SPARE		20	1		0		20	1		SPARE	34
35	SPARE		20	1			0	20	1		SPARE	36
37	SPACE				0						SPACE	38
39	SPACE					0					SPACE	40
41	SPACE						0				SPACE	42
TOTAL CONNECTED LOAD:					1,000	1,000	1,000	TOTAL =		3.00	KVA	
					AMPERE	3	3	3	TOTAL =		8	AMP

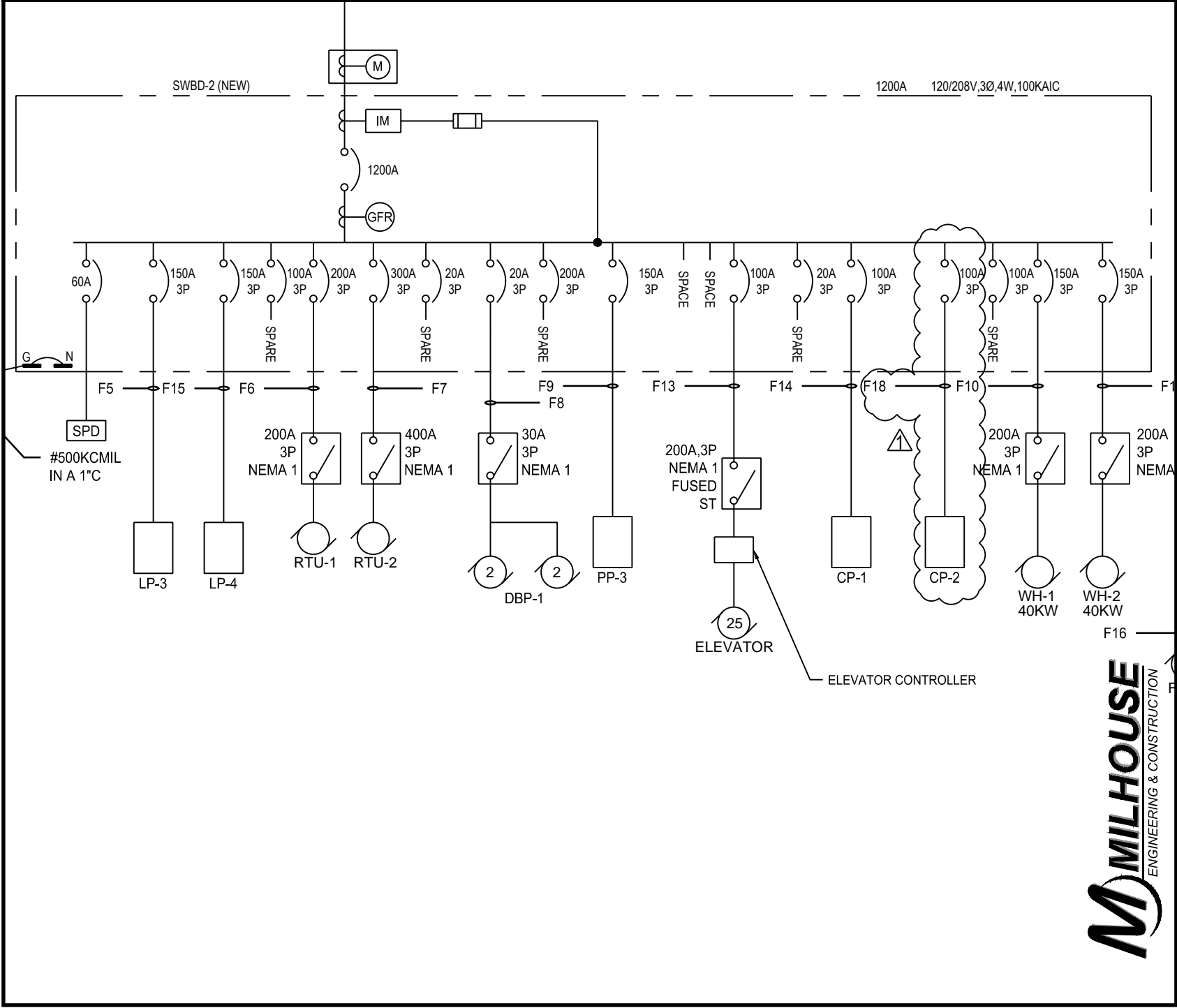


PANEL SCHEDULE		DESIGNATION: POWER PANEL LP-3 LOCATION: ELECTRICAL ROOM 153 VOLTAGE: 208/120 VOLT PHASE: 3 PHASE, 4 WIRE						MAINS: 125A BUS SIZE: 150A PANEL MOUNTING: SURFACE ALL BREAKERS: 35,000 A.I.C. (MINIMUM)				
CKT. NO.	LOAD DESCRIPTION	VA	CKT. BKR.		VA			CKT. BKR.		VA	LOAD DESCRIPTION	CKT. NO.
			AMPS	POLE	A	B	C	AMPS	POLE			
1	ROOMS 150,151,164 LGTS	585	20	1	1,811			20	1	1226	EXTERIOR LIGHTS	2
3	ROOMS 159,160 LIGHTS	1125	20	1		1,439		20	1	314	ROOM 230,250 LIGHTS	4
5	ROOMS 162,161 LIGHTS	1050	20	1			1,452	20	1	402	ROOM 251 LIGHTS	6
7	RMS 152-154,156,ELEV. LGTS	681	20	1	1,681			20	1	1000	HAND DRYER	8
9	ROOMS 157,158 LIGHTS	357	20	1		405		20	1	48	EM LIGHTS	10
11	RECEPTS 159, 160	1080	20	1			1,080	20	1		SPARE	12
13	RECEPTS 160,161,162	1080	20	1	2,160			20	1	1080	OUTDOOR GFI RECPTS	14
15	RECEPTS 161	720	20	1		1,800		20	1	1080	CORRDR/VEST RECPTS	16
17	RECEPTS 161	720	20	1			1,980	20	1	1260	RECEPTS 152,153,154,156	18
19	RECEPTS 161	720	20	1	720			20	1		SPARE	20
21	RECEPTS 161	900	20	1		900		20	1		SPARE	22
23	RECEPTS 155,157,158	1440	20	1			1,440	20	1		SPARE	24
25	MCT 154	1000	20	1	1,000			20	1		SPARE	26
27	MOTORIZED SHADES 155	1000	20	1		1,000		20	1		SPARE	28
29	MOTORIZED SHADES 155	1000	20	1			2,260	20	1	1260	RECEPTS 155	30
31	MOTORIZED SHADES 155	1000	20	1	1,100			20	1	100	SCOREBOARD	32
33	MOTORIZED SHADES 155	1000	20	1		1,000		20	1		SPARE	34
35	EXIT LIGHTS	33	20	1			33	20	1		SPARE	36
37	NIGHT LIGHTS	600	20	1	600			20	1		SPARE	38
39	SPACE					1,000		20	1	1000	LAPTOP CHRNGNG STATION	40
41	SPACE						0				SPACE	42
TOTAL CONNECTED LOAD:					9,072	7,544	8,245	TOTAL =		24.86	KVA	
					AMPERE	25	21	23	TOTAL =		69	AMP



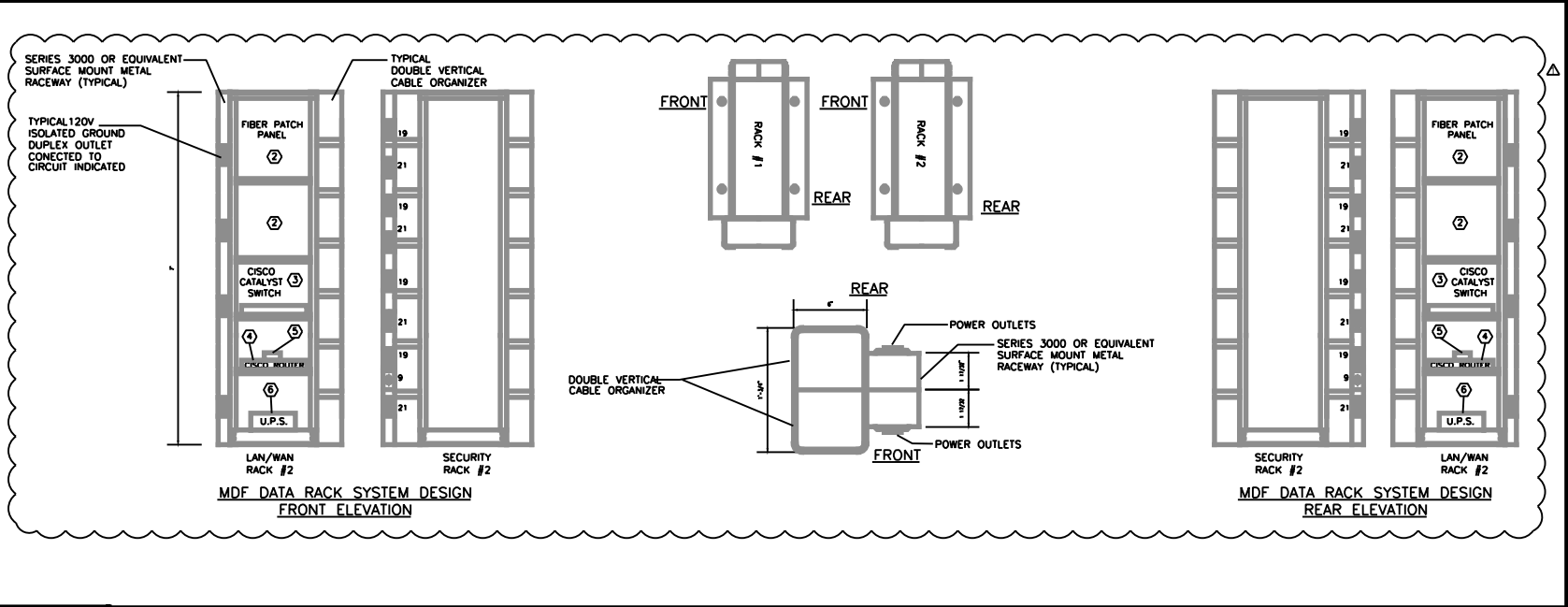
PROJECT DUNNE TECHNOLOGY ACADEMY MODERNIZATION		TITLE Electrical panel schedules	
		DRAWN AP	DATE 02/26/2015
CHICAGO OAK BROOK O'FALLON ST. LOUIS		APPROVED MM	SHEET NO. ESK-006 ISSUED AS ADD #1
PROFESSIONAL DESIGN FIRM - IL # 184-000350		PBC JOB NO. 05440	

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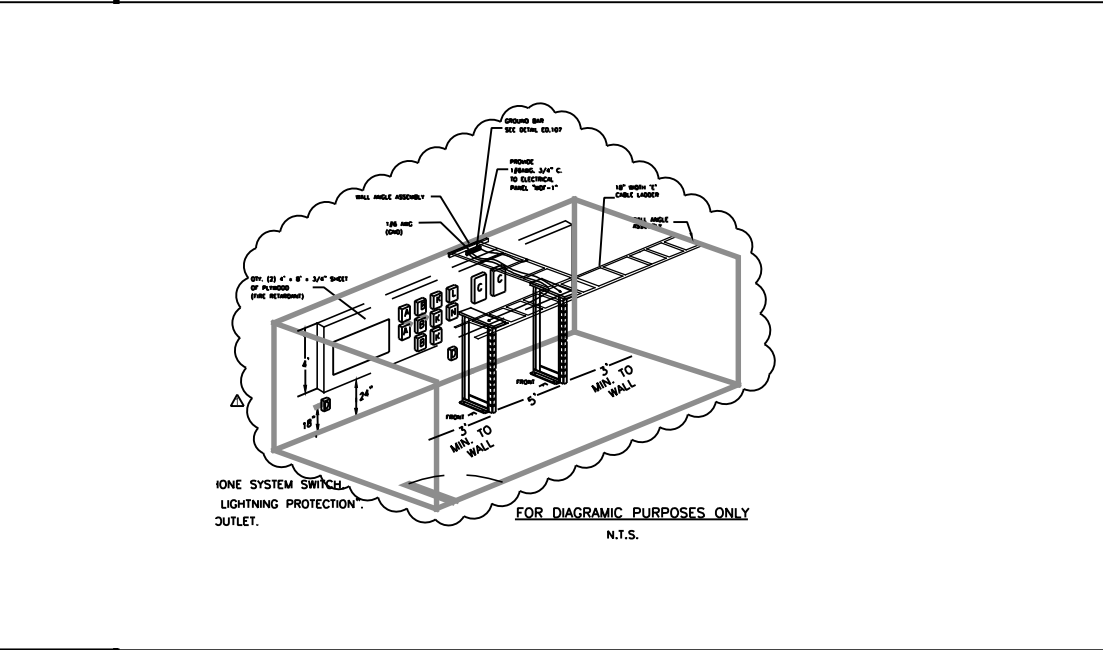


PROJECT DUNNE TECHNOLOGY ACADEMY MODERNIZATION	TITLE Electrical single line diagram	SHEET NO. ESK-007	
	DATE 02/26/2015	ISSUED AS ADD #1	
DRAWN AP	APPROVED MM	PBC JOB NO. 05440	
FGM ARCHITECTS CHICAGO OAK BROOK ST. LOUIS OF FALLON		PROFESSIONAL DESIGN FIRM - IL # 184-000350	





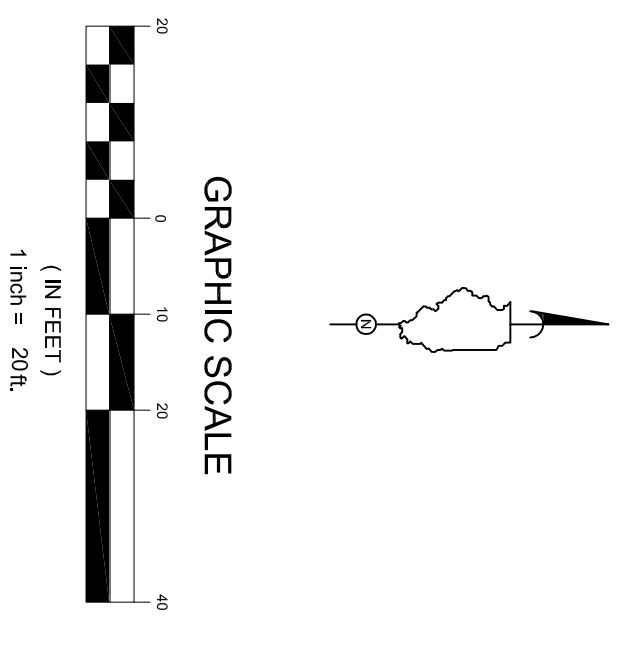
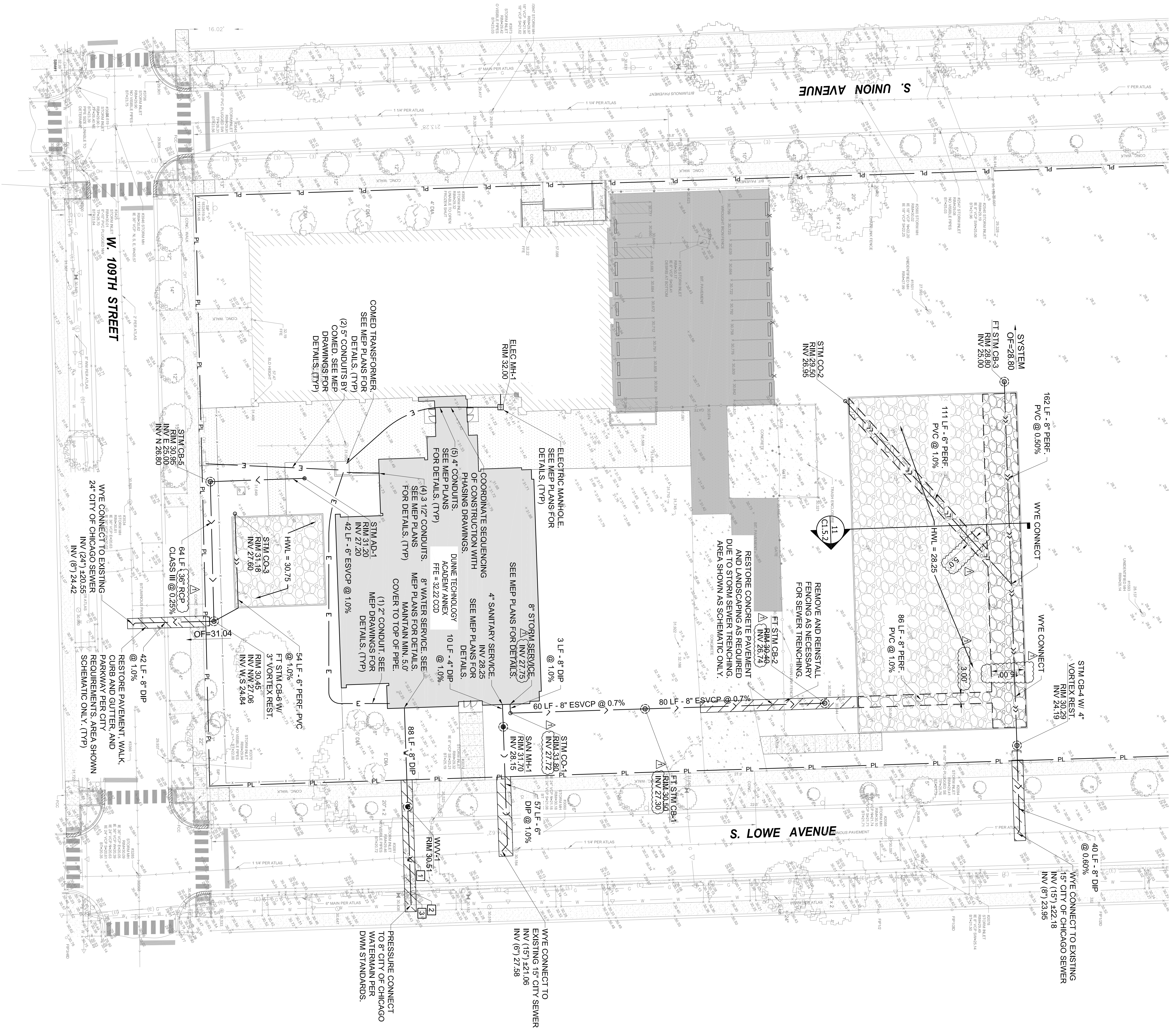
E9 STANDARD MDF ROOM RACK ELEVATIONS AND DETAILS
N/A



E1 ISOMETRIC VIEW OF MDF ASSEMBLY
N/A

PROJECT	DUNNE TECHNOLOGY ACADEMY MODERNIZATION		TITLE	Electrical Details - MDF room	
	FGM ARCHITECTS CHICAGO OAK BROOK ST. LOUIS OF FALLON	DRAWN	AP	DATE	02/26/2015
		APPROVED		PBC JOB NO.	05440
PROFESSIONAL DESIGN FIRM - IL # 184-000350			SHEET NO.	ESK-008	
			ISSUED AS	ADD #1	





LEGEND AND ABBREVIATIONS:

- PL — PROPERTY LINE
- BUILDING
- RESTORE CITY STREET PAVEMENT CURB AND GUTTER, PARKWAY AND SIDEWALK PAVEMENT AS REQUIRED FOR CONSTRUCTION. AREA SHOWN AS SCHEMATIC ONLY.
- DETENTION AGGREGATE
- DETENTION TRENCH
- STORM LINE
- PERFORATED STORM LINE
- SANITARY LINE
- WATER LINE
- ELECTRIC LINE
- HML HIGH WATER LEVEL
- CCD CHICAGO CITY DATUM
- FEE FINISHED FLOOR ELEVATION
- FT FLAT TOP
- MANHOLE (MH)
- CATCH BASIN (CB)
- WATER VALVE VAULT (WVV)
- CLEAN OUT (CO)
- AREA DRAIN (AD)
- RESTRICTOR (REST)
- ELECTRIC MANHOLE
- OVERFLOW ELEVATION
- UTILITY CROSSING TAG

NOTES:

1. ALL DUCTILE IRON PIPE (DIP) TO BE WRAPPED IN POLYETHYLENE PER DETAIL #4/C1.5.3.
2. ALL PERFORATED PIPE SHALL BE SDR-26.

ELEVATION TABLES FOR UTILITY CROSSINGS

Tag #	Use of Pipe	Type of Pipe	Size	Top Elev.	Bottom Elev.	Separation (Feet)
1	P. Water	UP	6"	25.31	24.00	2.33
	X. Storm	UP	18"	25.21	20.84	
2	P. Water	DIP	6"	25.36	24.65	2.62
	X. Electric	Conduit	3"	25.20	27.88	
3	P. Water	DIP	6"	25.58	24.65	1.77
	X. Gas	DIP	6"	27.27	26.73	



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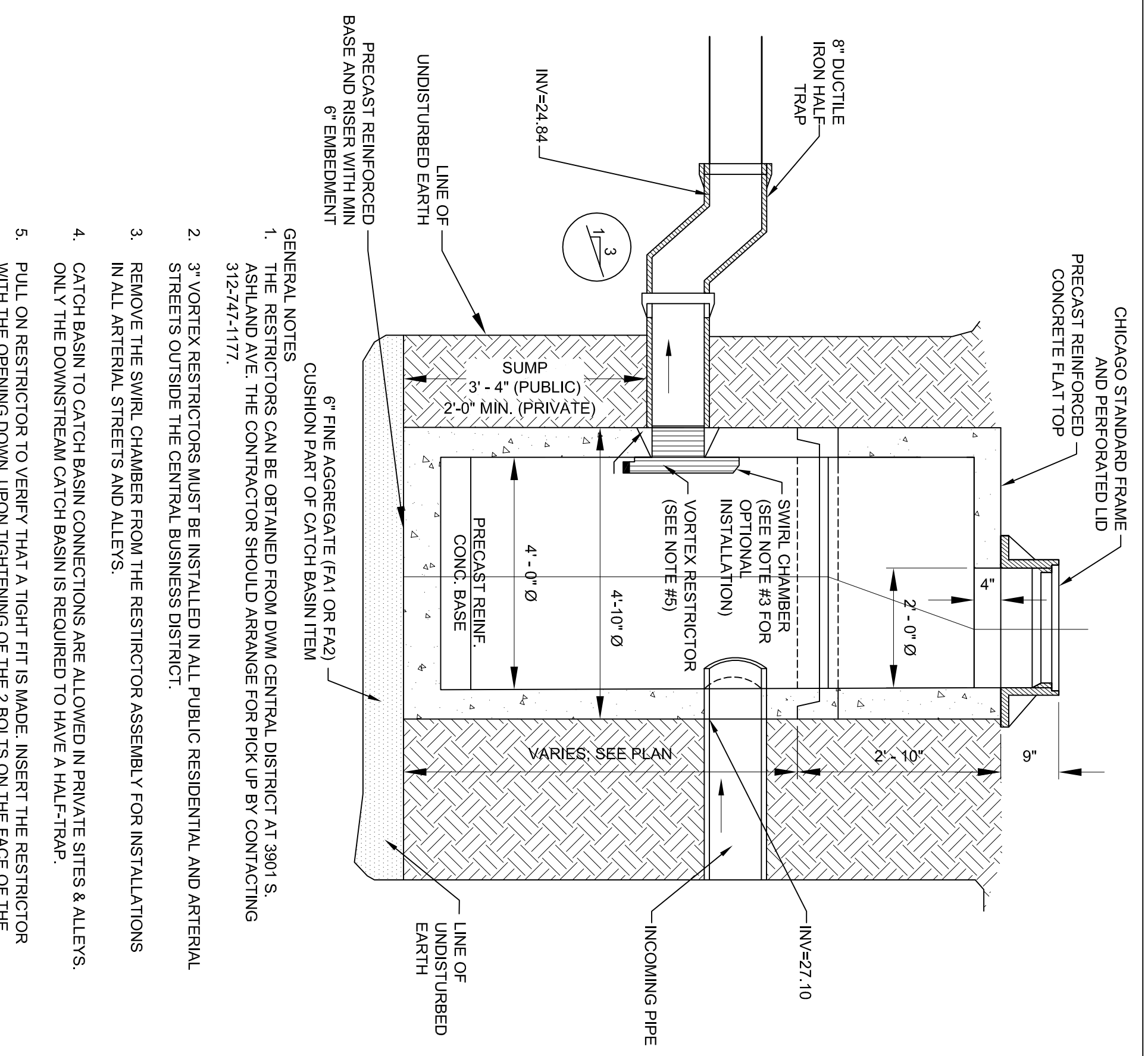
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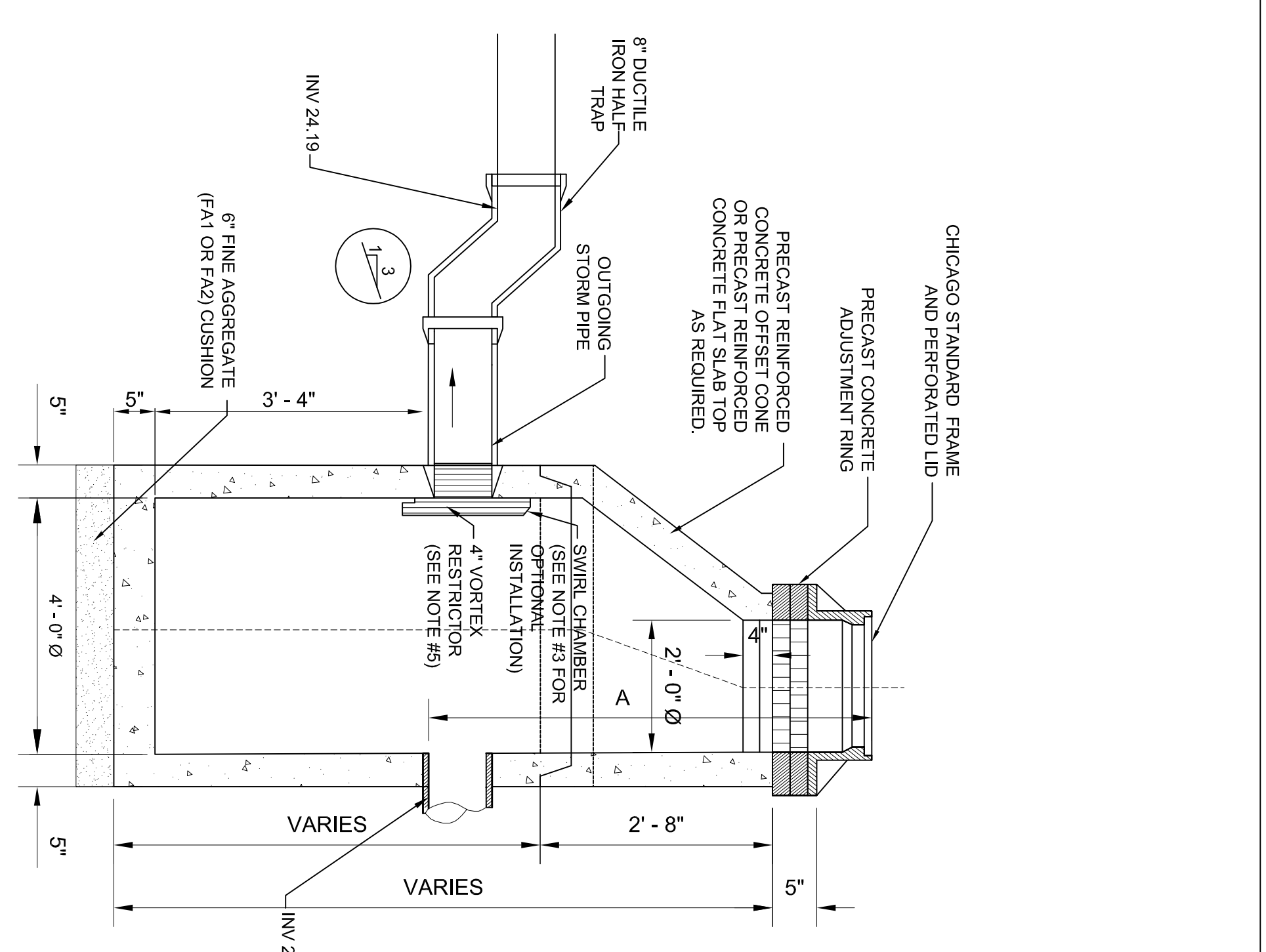
JLL Tech
 332 S. Michigan Ave, Suite 1032
 Chicago, IL 60604
 LEED Consultant

PGC Project Name: DUNNE TECH ACADEMY
 PGC Contract No.: 05440
 Project No.: FGM #15-1950-01
 Title

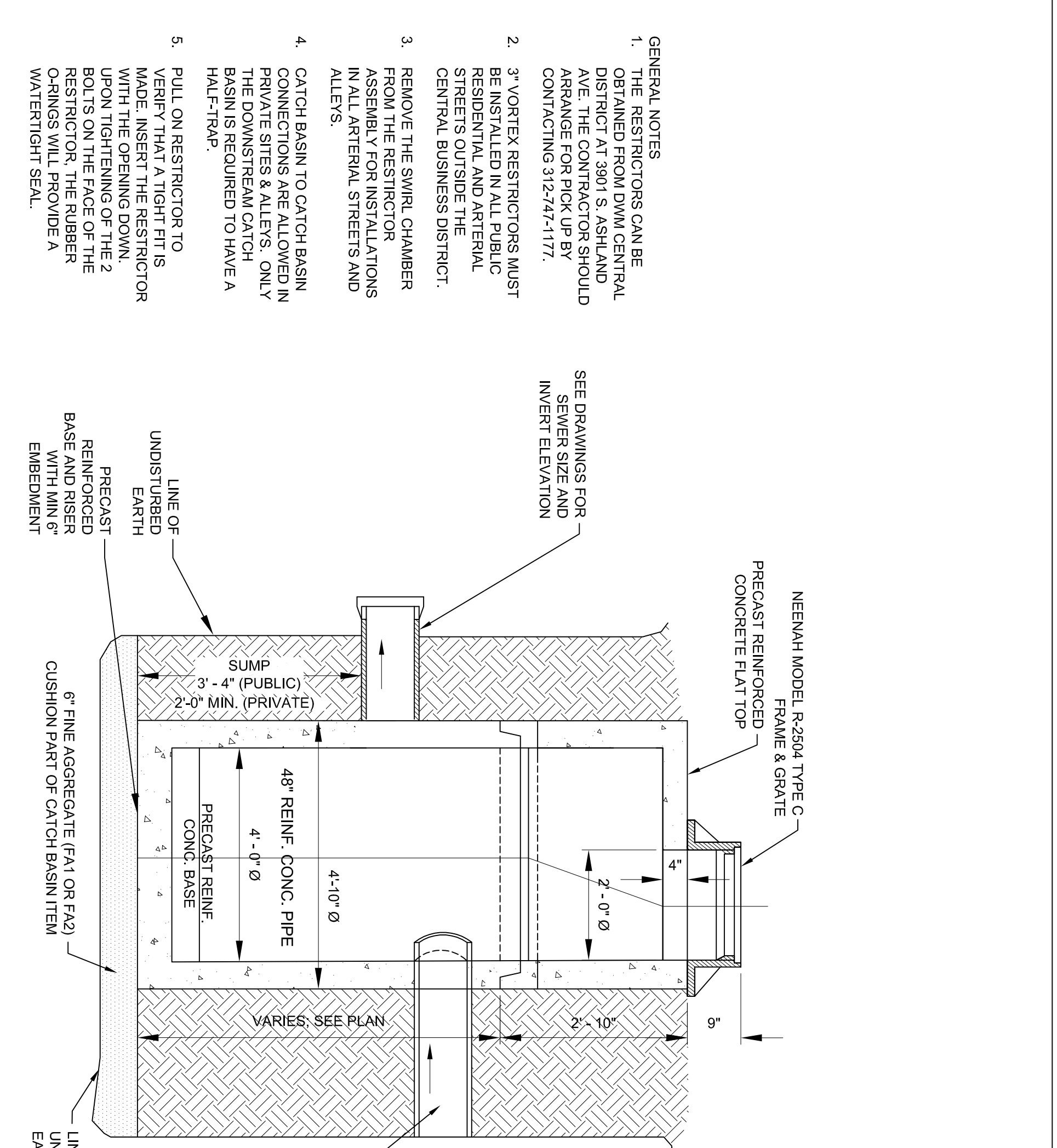
SITE UTILITY PLAN
 Sheet
C1.4.1



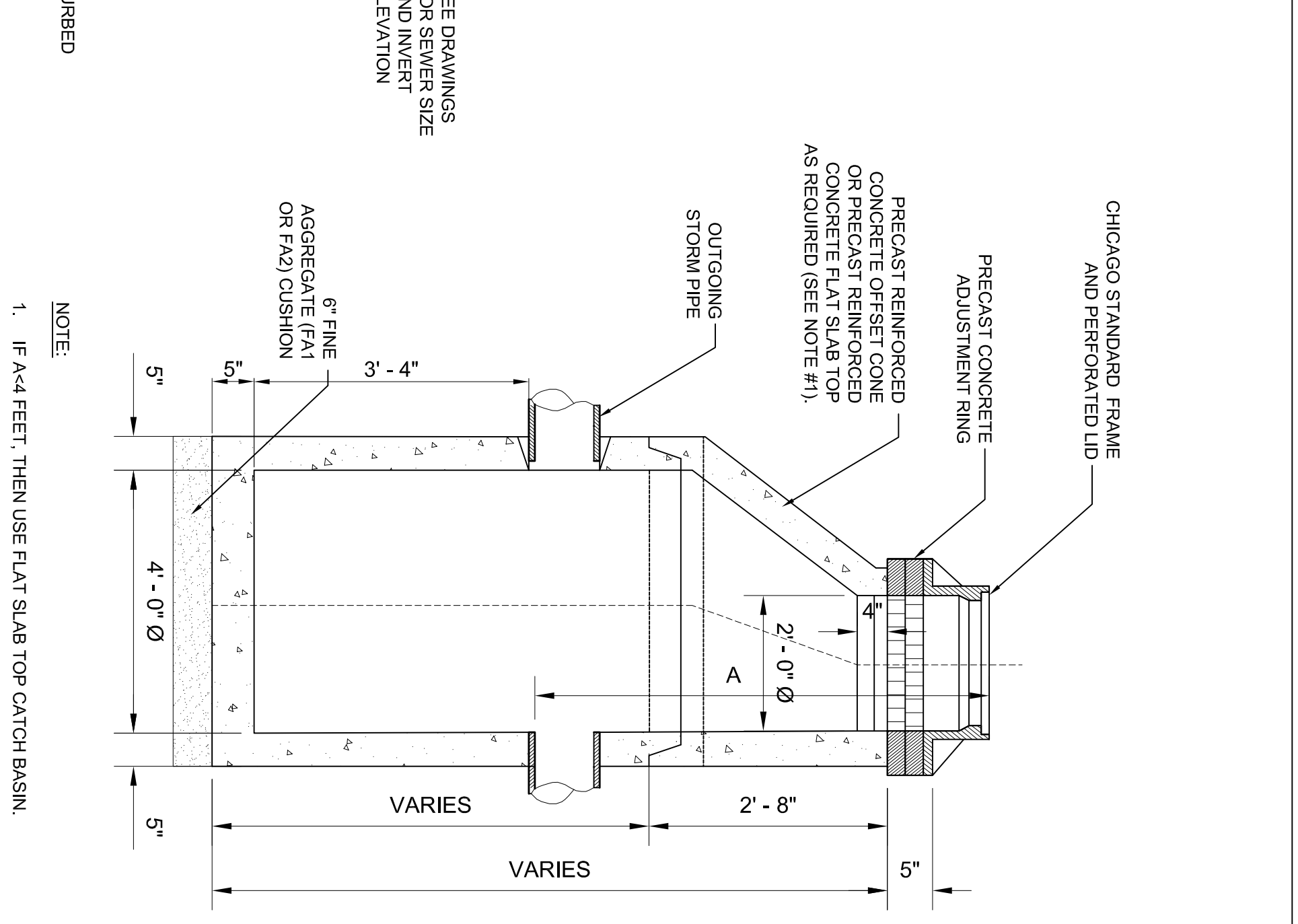
1 FLAT TOP CATCH BASIN W/ 3" VORTEX RESTRICTOR
SCALE: NTS



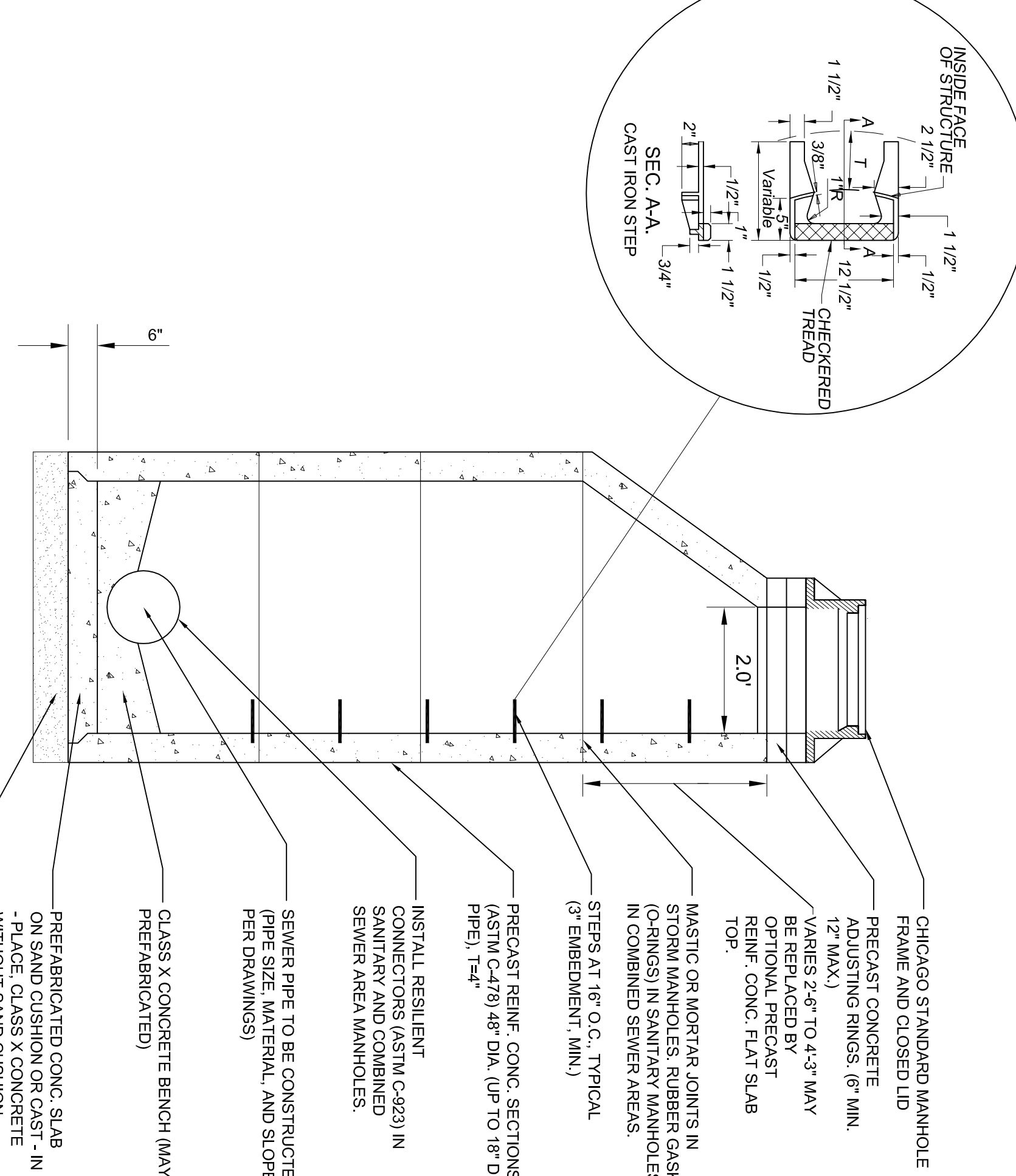
2 CATCH BASIN W/ 4" VORTEX RESTRICTOR
SCALE: NTS



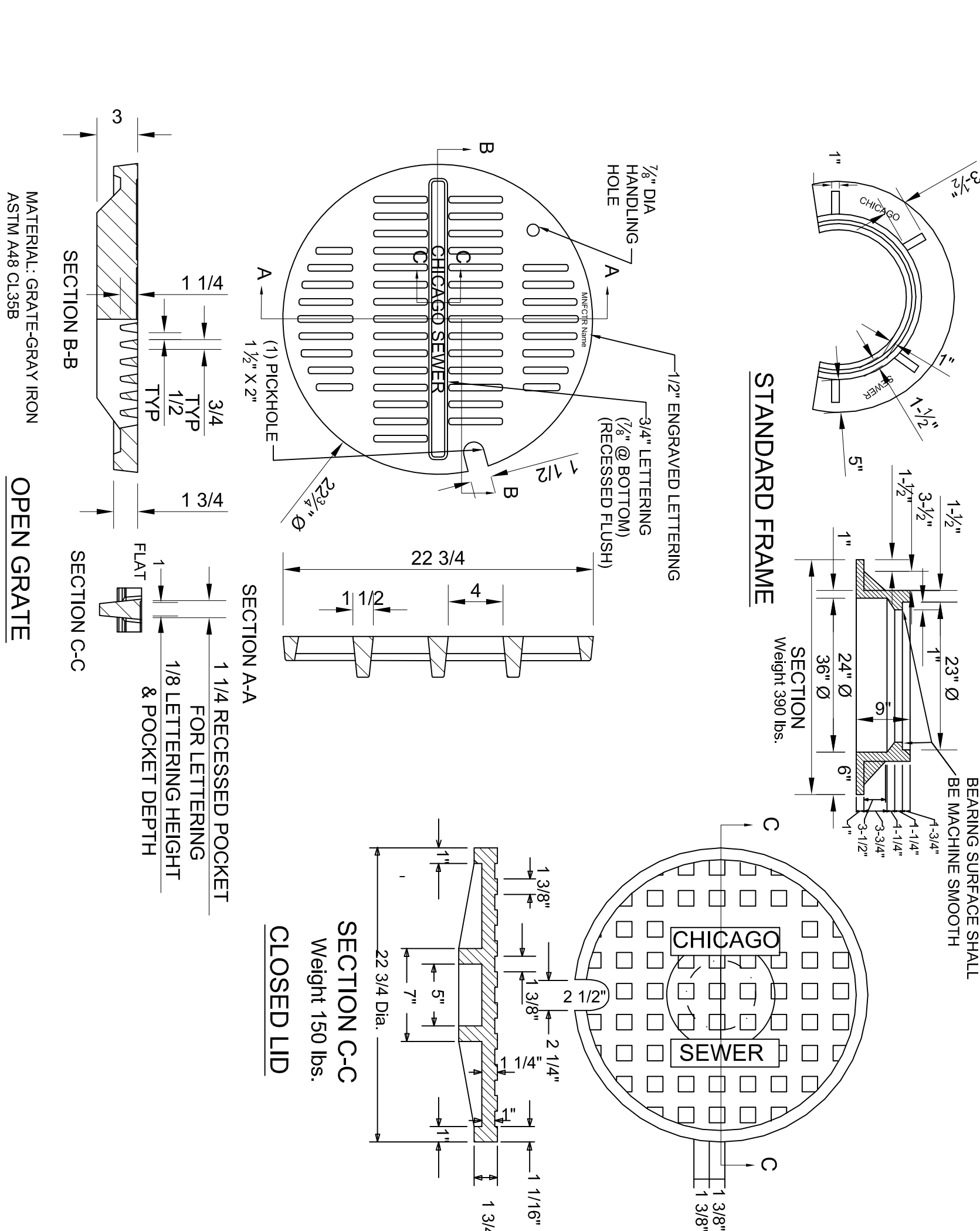
3 FLAT TOP CATCH BASIN
SCALE: NTS



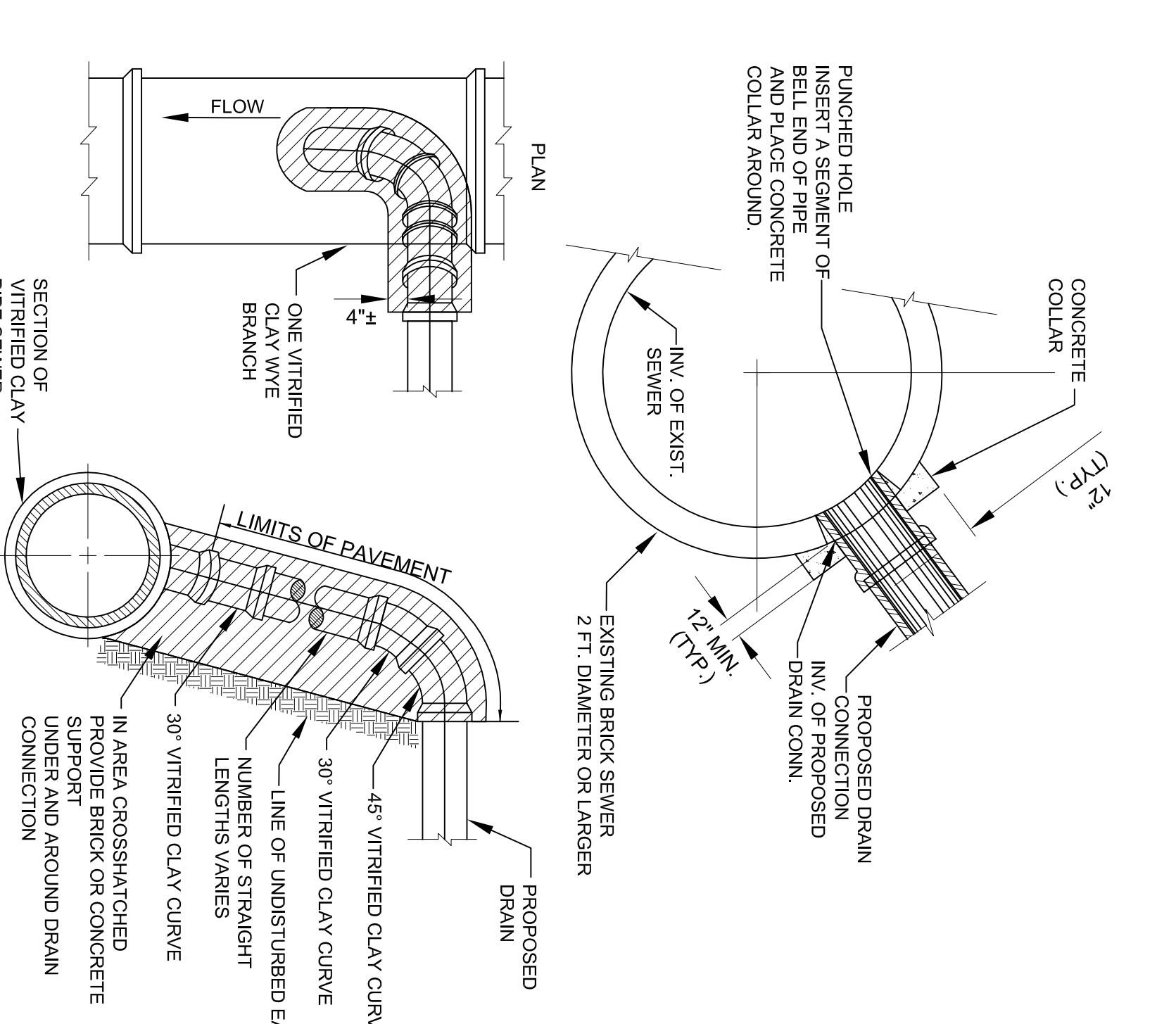
4 CATCH BASIN
SCALE: NTS



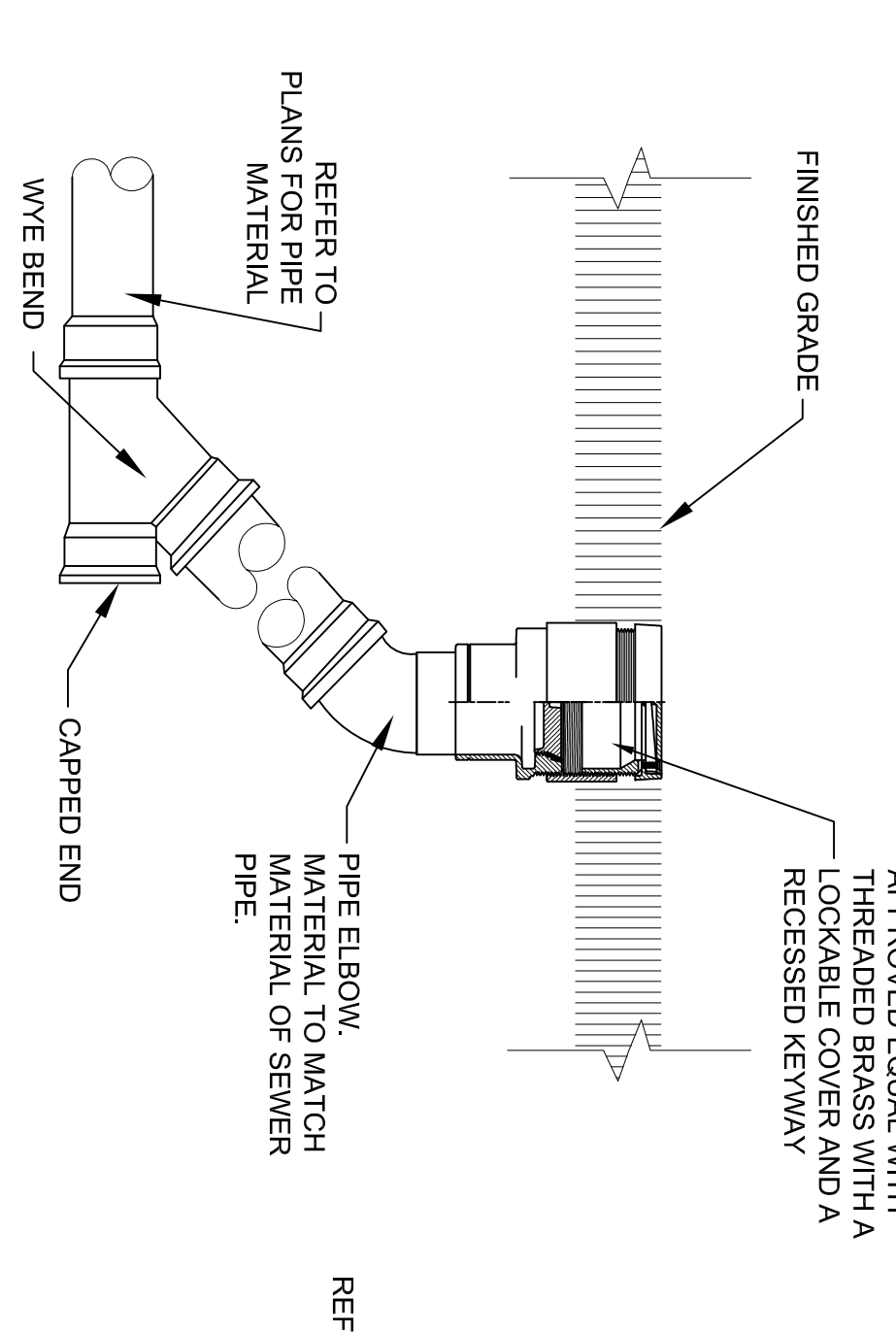
5 MANHOLE
SCALE: NTS



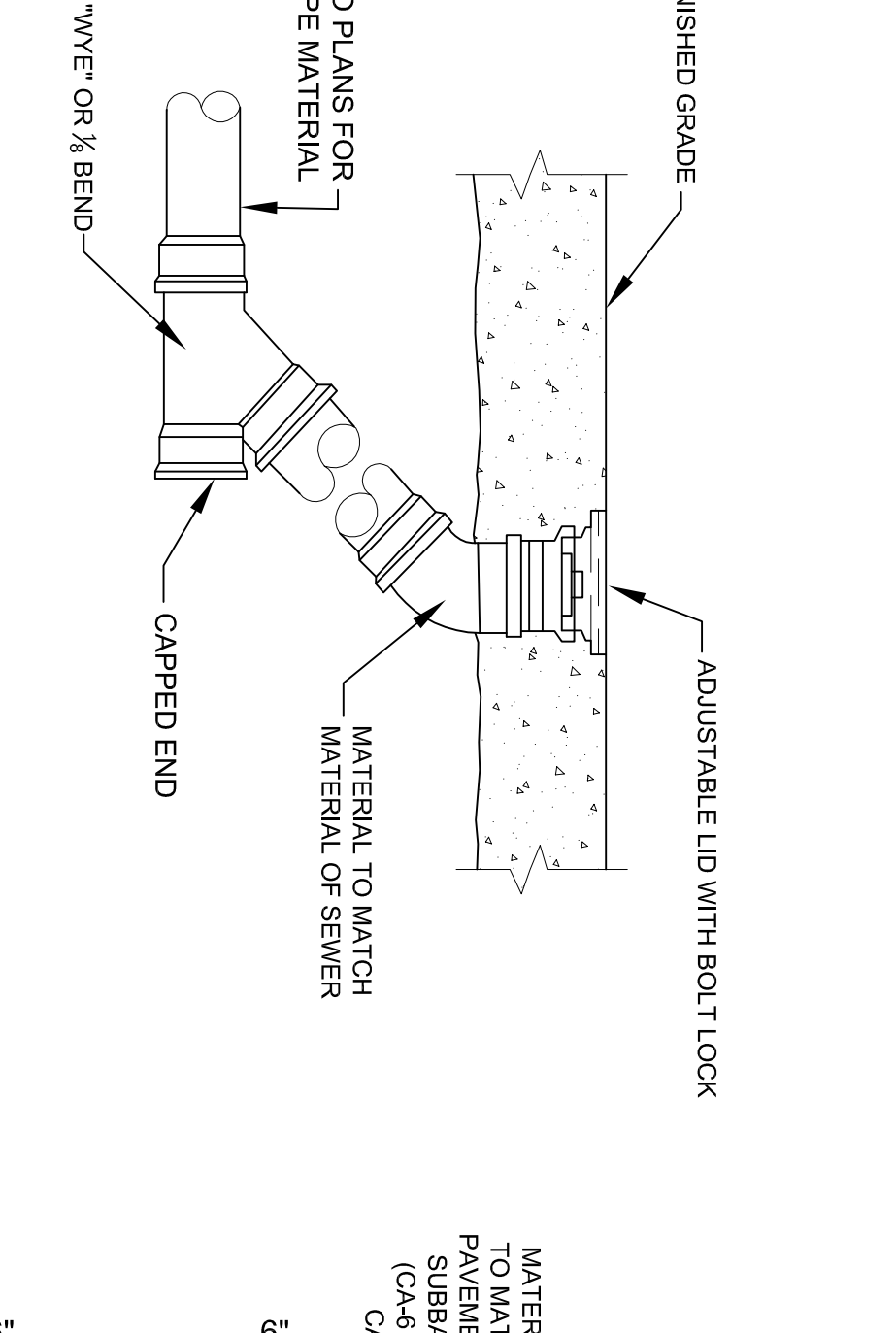
6 SEWER FRAME AND LID
SCALE: NTS



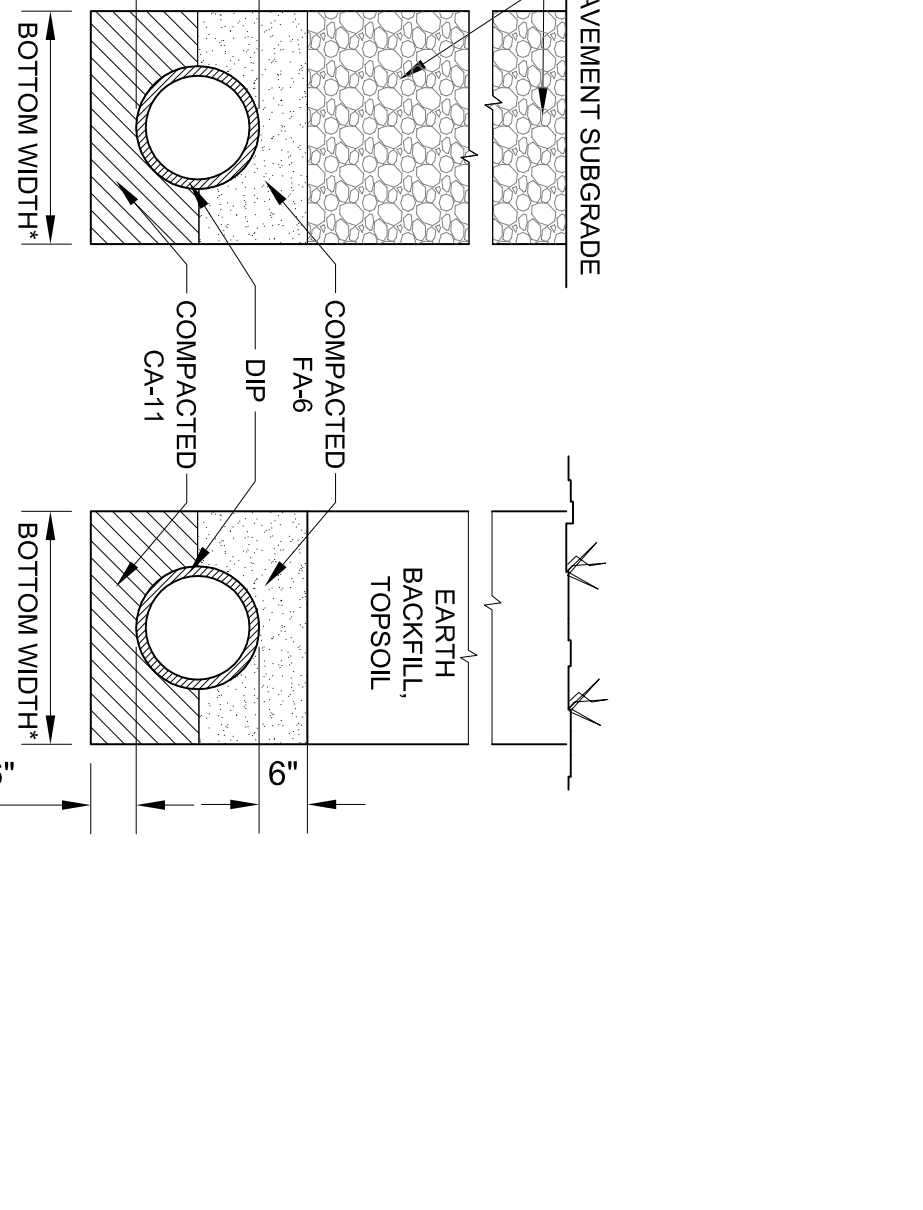
7 TYPICAL DRAIN CONNECTIONS
SCALE: NTS



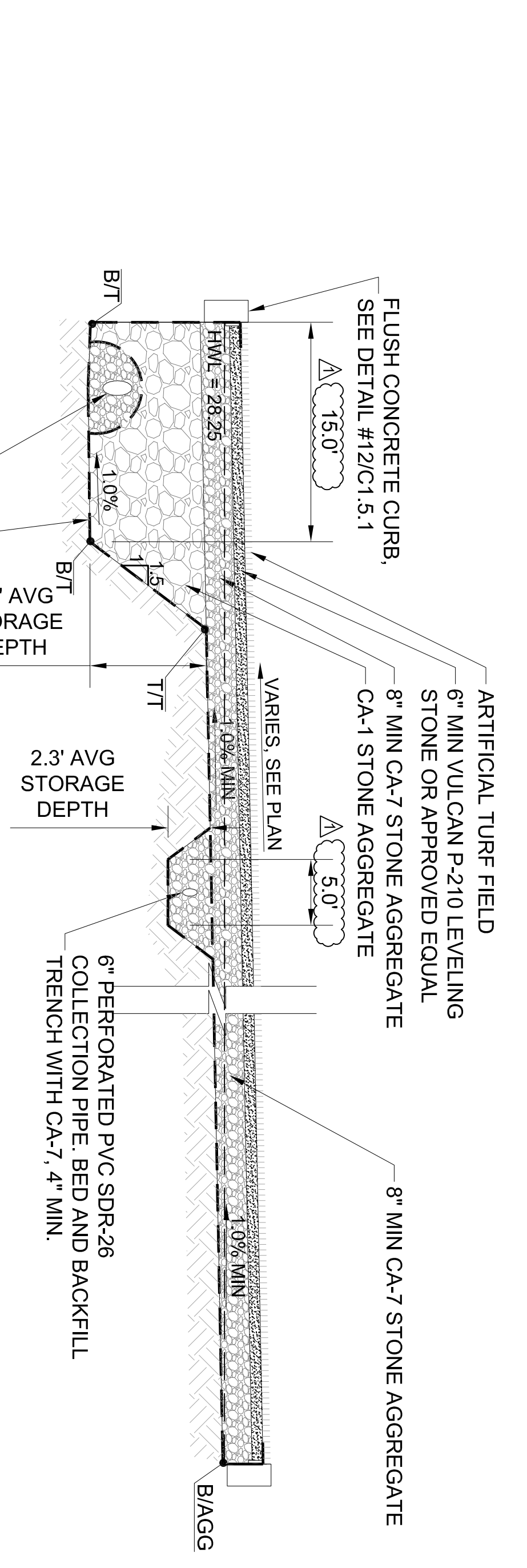
8 CLEANOUT
SCALE: NTS



9 AREA DRAIN
SCALE: NTS



10 NON-PERFORATED SEWER BEDDING AND BACKFILL
SCALE: NTS



11 SECTION THROUGH TURF FIELD
SCALE: H: 1" = 5' | V: 1" = 25"

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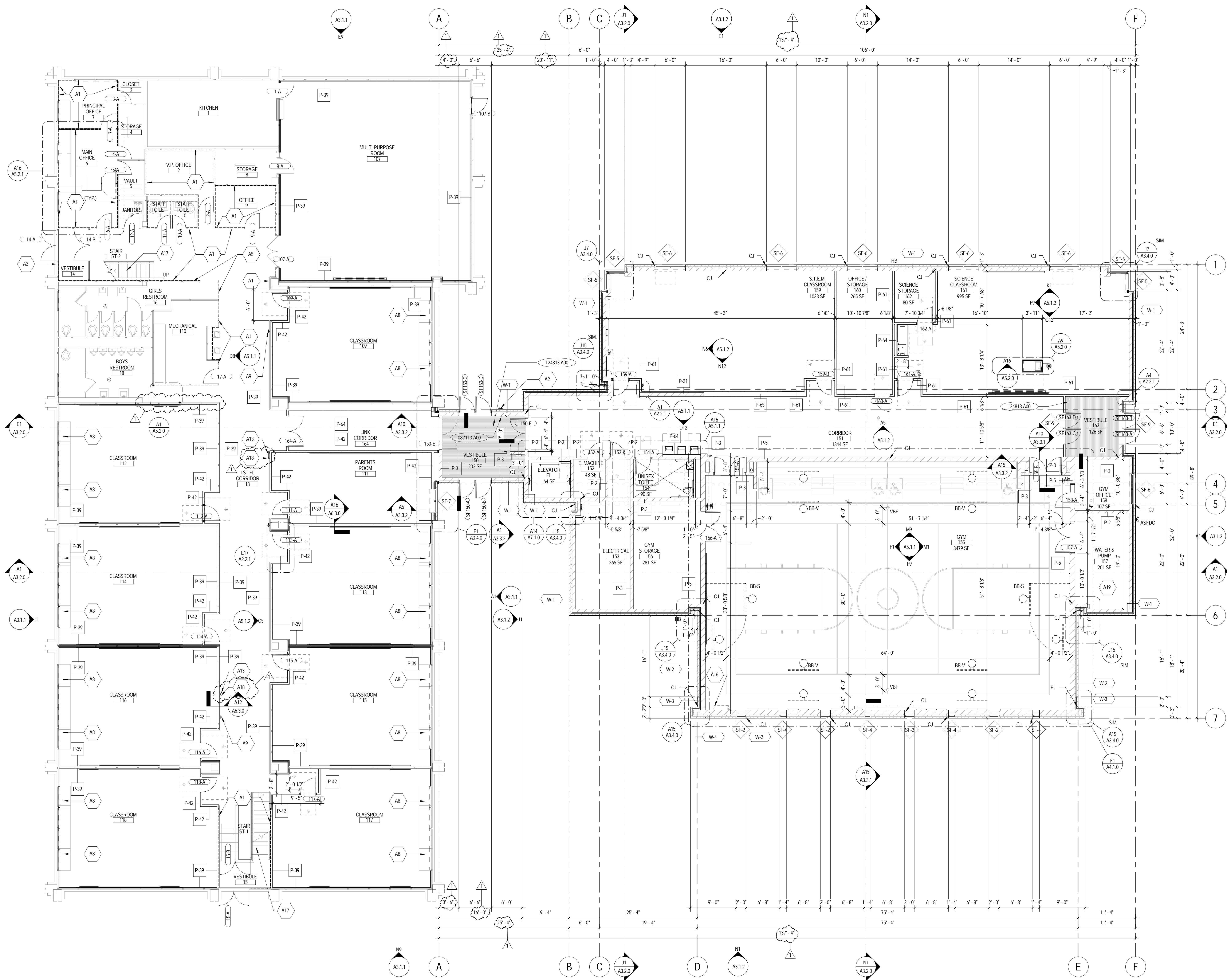
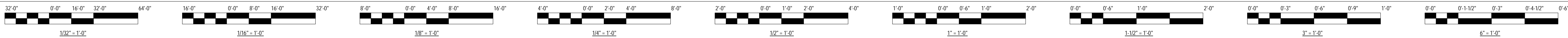
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Mark	Description	Date
1	90% CDS	2.02.2015
2	ISSUE FOR BID	2.13.2015
3	ISSUE FOR PERMIT	2.13.2015
4	ADD #1	2.28.2015

PG&C Contract No.: 05440
Project No.: FGMA #15-1950.01
TBA



KEYNOTES - REFERENCE	
KEY NUMBER	DESCRIPTION
087113.A00	AUTOMATIC DOOR OPERATORS
124813.A00	ENTRANCE FLOOR MATS AND FRAMES

KEYNOTES - SHEET	
KEY NUMBER	DESCRIPTION
A1	DASHED LINE INDICATES EXTENT OF LAMINATE FILM. REFER TO FINISH PLAN.
A2	PROVIDE AIRPHONE ENTRY STATION.
A5	RELOCATE PREVIOUSLY REMOVED METAL WALL PANEL TO THIS LOCATION.
A8	SCRAPE, WIRE BRUSH, AND PREP FOR PAINTING EXISTING METAL BOOKCASE ADJACENT TO EXISTING UNIT VENTILATOR.
A9	REINSTALL EXISTING FIRE EXTINGUISHER BRACKET.
A13	EXISTING ELECTRICAL PANEL TO REMAIN.
A16	3\"/>

LEGEND			
TAG	DESCRIPTION	TAG	DESCRIPTION
AS/DC	AUTOMATIC SPRINKLER FIRE DEPARTMENT CONNECTION	FEC	FIRE EXTINGUISHER CABINET (SEMI-RECESSED)
AC-#	1\"/>		

- GENERAL FLOOR PLAN NOTES**
- REFER TO PARTITION TYPES FOR THICKNESS OF WALLS AND PARTITIONS.
 - WALL AND PARTITION DIMENSIONS ARE SHOWN TO FINISHED FACE OF WALL.
 - FOR PARTITION TYPES, SEE A2-SERIES DRAWINGS.
 - FOR FURNITURE AND SIGNAGE INFORMATION, SEE A9-SERIES DRAWINGS.
 - FOR ROOM FINISH SCHEDULE, SEE A8-SERIES DRAWINGS.
 - FOR DOOR AND FRAME INFORMATION, SEE A2-SERIES DRAWINGS.
 - FOR WINDOW AND STOREFRONT TYPES, SEE ELEVATION ON A2-SERIES DRAWINGS.
 - FOR EXTERIOR ENVELOPE DETAILS, SEE A3-SERIES DRAWINGS.
 - FOR INTERIOR ELEVATIONS, SEE A5-SERIES DRAWINGS.
 - FOR CEILING INFORMATION, SEE A0-SERIES DRAWINGS.
 - FOR SPECIAL FINISHES, PATTERNS ETC., SEE A8-SERIES DRAWINGS.
 - USE OF SPECIFICATION SECTION NUMBERS WITHIN KEY NOTES IS MADE SOLELY FOR CONVENIENCE IN COORDINATION AND WITHOUT LIMITATION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE WORK IN ACCORDANCE TO THE CONTRACT DOCUMENTS IN THEIR ENTIRETY.
 - USE OF MANUFACTURER'S CONTENT WITHIN THE DRAWINGS IS MADE SOLELY FOR CONVENIENCE IN ILLUSTRATING THE REQUIREMENTS OF THE PROJECT. THE CONTRACTOR IS REQUIRED TO PROVIDE PRODUCTS SPECIFIED AND APPROVED THROUGH THE SUBMITTAL PROCESS.



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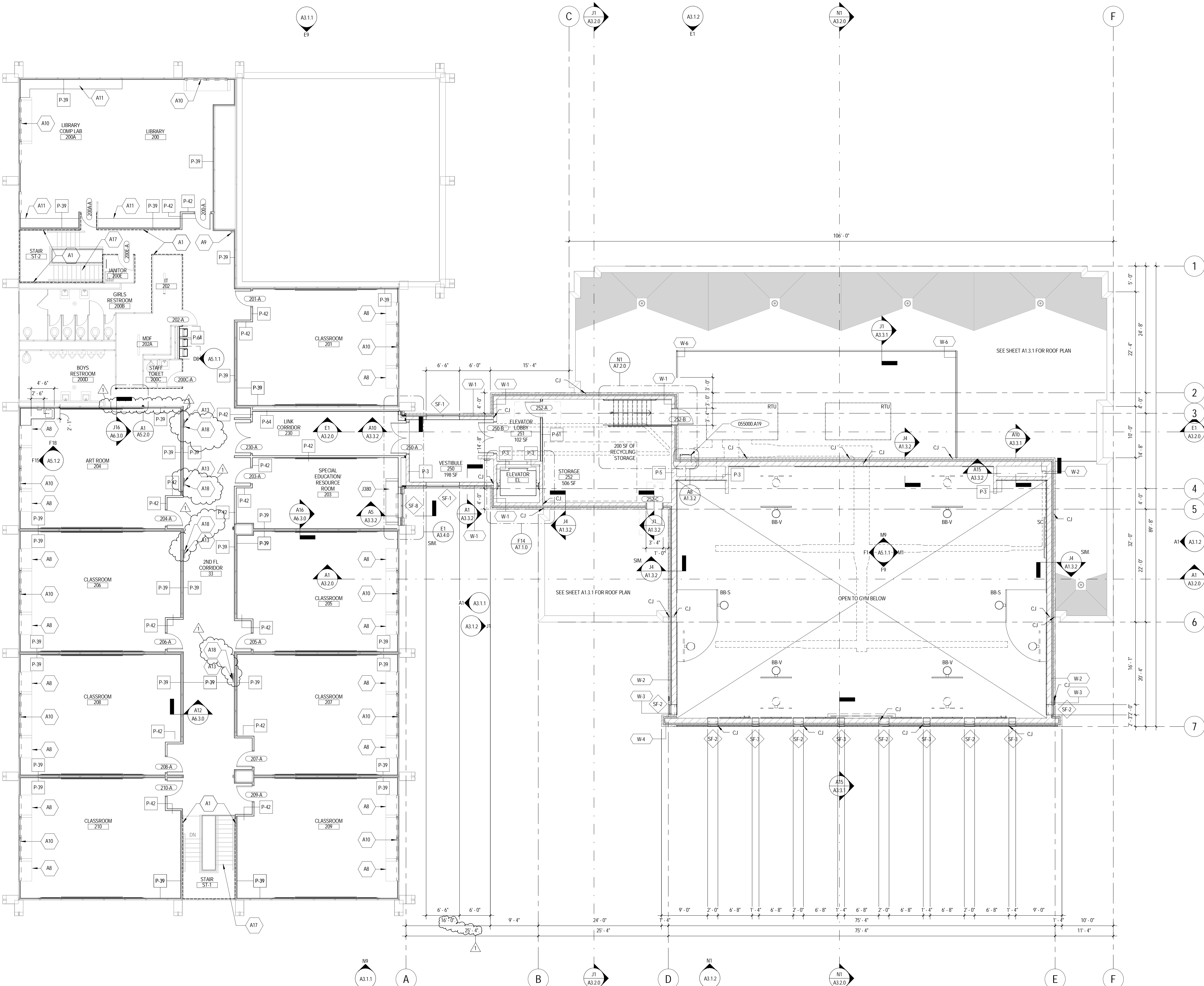
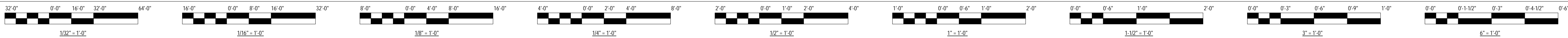
Mark	Description	Date
	ISSUED FOR BID/PERMIT	2.13.2015
1	ADDENDUM #1	2.26.2015

WARNING: THESE ARCHITECTS' CONTAINING BUILDING MATERIALS MAY BE PRESENT IN THIS BUILDING. AN ARCHITECTS' MANAGEMENT PLAN IS AVAILABLE BY THE DESIGNER FOR THE DESIGNER'S RECORD. THE DESIGNER MAY OBTAIN ARCHITECTS' CONTAINING MATERIALS LISTINGS THAT IDENTIFY ARCHITECTS' CONTAINING MATERIALS AND IDENTIFY THE PRODUCTS WHICH WORK IN ACCORDANCE WITH PROJECT SPECIFICATIONS. CONTACT THE ARCHITECTS' CONTAINING MATERIALS AND INQUIRY SERVICE FOR MORE INFORMATION.

LEED GREEN POINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY PRECAUTIONS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS INCLUDING OSHA 1926.566. CONTRACTORS SHOULD CONSULT WITH THE ARCHITECTS' CONTAINING MATERIALS AND INQUIRY SERVICE FOR MORE INFORMATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

PBC Project Name:	DUNNE TECH ACADEMY
PBC Contract No.:	C1566
PBC Project No.:	05440
FGM Project No.:	15-1950-01

Title
FIRST FLOOR PLAN



KEYNOTES - REFERENCE	
KEY NUMBER	DESCRIPTION
055000A19	METAL LADDER

KEYNOTES - SHEET	
KEY NUMBER	DESCRIPTION
A1	DASHED LINE INDICATES EXTENT OF LAMINATE FILM. REFER TO FINISH PLAN.
A8	SCRAPE, WIRE BRUSH, AND PREP FOR PAINTING EXISTING METAL BOOKCASE ADJACENT TO EXISTING UNIT VENTILATOR.
A9	REINSTALL EXISTING FIRE EXTINGUISHER BRACKET.
A10	PROVIDE CONTINUOUS CONCRETE FOAM INJECTION AT LOCATION OF CONCRETE FLOOR CRACK BEHIND VV. REFER TO FINISH PLAN FOR ADDITIONAL INFORMATION.
A11	REINSTALL EXISTING METAL BOOKSHELVING UNITS.
A13	EXISTING ELECTRICAL PANEL TO REMAIN.
A17	SCRAPE, PREP AND PAINT EXISTING STAIR HANDRAILS, STRINGERS, TREADS, RISERS AND CORNICES.
A18	ELECTRICAL PANEL CHASES TO BE PAINTED.
	UNIT VENTILATOR - SEE MECHANICAL DRAWINGS FOR GAP CLOSURE DETAIL.

LEGEND			
TAG	DESCRIPTION	TAG	DESCRIPTION
ASFC	AUTOMATIC SPRINKLER FIRE DEPARTMENT CONNECTION	FEC	FIRE EXTINGUISHER CABINET (SEM-RECESSED)
AC-#	1" FABRIC-WRAPPED ACOUSTICAL WALL PANEL	GM	GAS METER
BB-V	VERTICALLY FOLDING BASKETBALL BACKBOARD (WALL MOUNTED)	HB	HOSE BIBB
BB-S	SIDE FOLDING BASKETBALL BACKBOARD (WALL MOUNTED)	SGN-#	SCOREBOARD (SEE SIGNAGE TYPES)
CJ	CONCRETE MASONRY CONTROL JOINT	SP	WALL SAFETY PAD
EJ	BRICK EXPANSION JOINT	TBA-#	TOILET AND BATH ACCESSORY (SEE SHEET AS-1.0)
FD	FLOOR DRAIN	VBF	VOLLEYBALL FLOOR INSERT

- GENERAL FLOOR PLAN NOTES**
- REFER TO PARTITION TYPES FOR THICKNESS OF WALLS AND PARTITIONS.
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 - FOR FURNITURE AND SIGNAGE INFORMATION, SEE A9-SERIES DRAWINGS.
 - FOR ROOM FINISH SCHEDULE, SEE A8-SERIES DRAWINGS.
 - FOR DOOR AND FRAME INFORMATION, SEE A2-SERIES DRAWINGS.
 - FOR WINDOW AND STOREFRONT TYPES, SEE ELEVATION ON A2-SERIES DRAWINGS.
 - FOR EXTERIOR ENVELOPE DETAILS, SEE A3-SERIES DRAWINGS.
 - FOR INTERIOR ELEVATIONS, SEE A5-SERIES DRAWINGS.
 - FOR CEILING INFORMATION, SEE A6-SERIES DRAWINGS.
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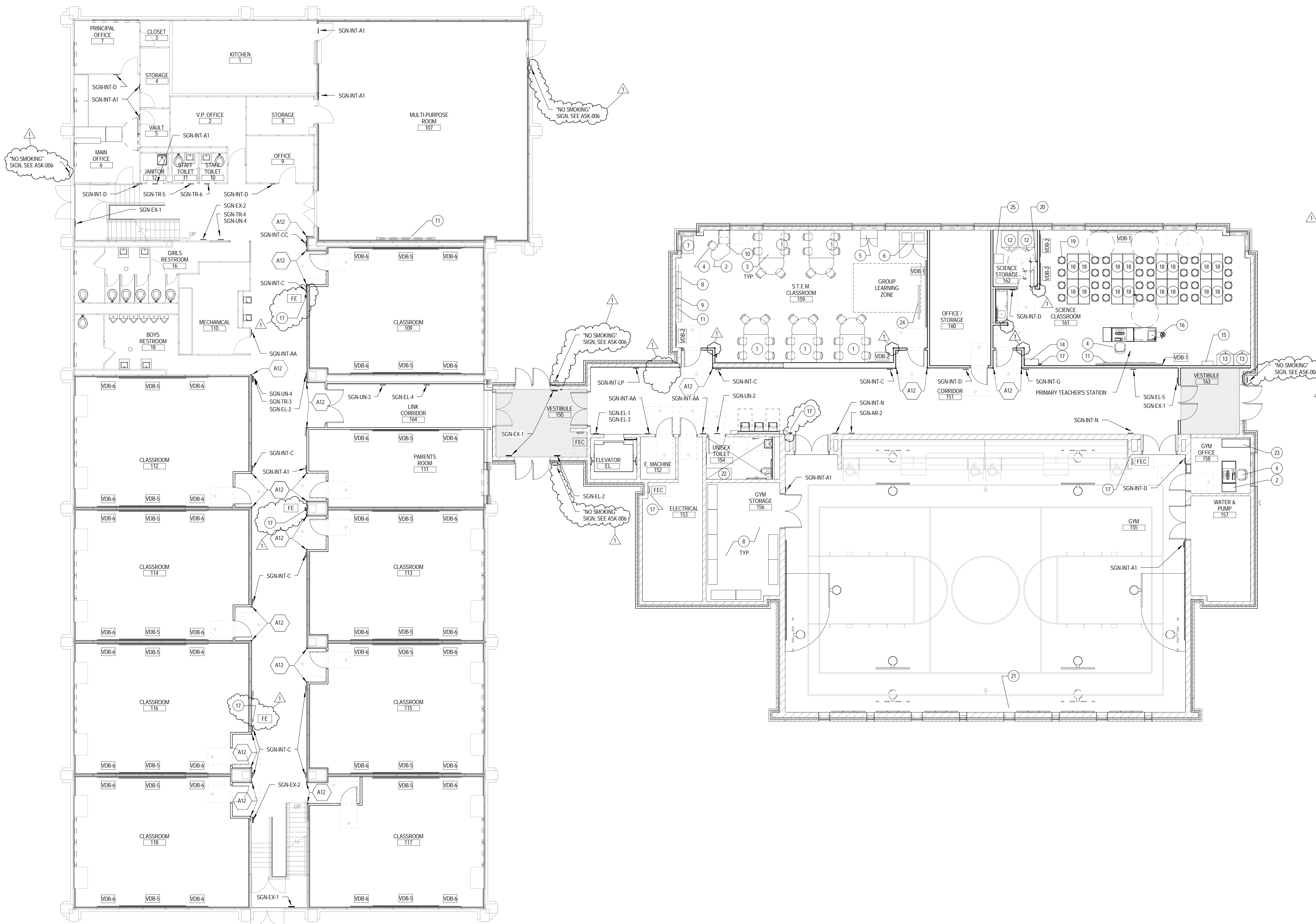
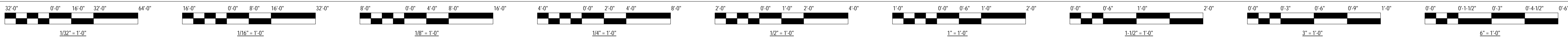
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 Chicago, IL 60604
 LEED Consultant

Mark	Description	Date
	ISSUED FOR BID/PERMIT	2.13.2015
1	ADDENDUM #1	2.26.2015

PCB Project Name	DUNNE TECH ACADEMY
PCB Contract No.	C1566
PCB Project No.	05440
FGM Project No.	15-1950.01

Title
SECOND FLOOR PLAN

Sheet
A1.2.0



KEYNOTES - REFERENCE	
KEY NUMBER	DESCRIPTION
A12	PROVIDE 3" X 3" X 4'-0" HIGH STAINLESS STEEL CORNER GUARD.

KEYNOTES - SHEET	
KEY NUMBER	DESCRIPTION
A12	PROVIDE 3" X 3" X 4'-0" HIGH STAINLESS STEEL CORNER GUARD.

VISUAL DISPLAY LEGEND			
TAG	DESCRIPTION	TAG	DESCRIPTION
VDB-1	MARKER BOARD (12'-0" W x 4'-0" H) STANDARD MOUNTING HEIGHT	VDB-5	MARKER BOARD (12'-0" W x 4'-0" H) CHILDRENS MOUNTING HEIGHT
VDB-2	TACK BOARD (4'-0" W x 4'-0" H) STANDARD MOUNTING HEIGHT	VDB-6	TACK BOARD (4'-0" W x 4'-0" H) CHILDRENS MOUNTING HEIGHT
		VDB-7	VISUAL DISPLAY RAIL

- GENERAL INTERIOR SIGNAGE NOTES**
- FOR EXTERIOR SIGNAGE LOCATIONS REFER TO SHEET A0.0.1.
 - FOR INTERIOR SIGNAGE DESIGNATIONS REFER TO SHEETS A2.1 & A2.2. REFER TO ROOM FINISH SCHEDULE FOR ROOM NAME.
 - FOR INTERIOR MOUNTING SIGN DETAIL REFER TO 3A2.4.3

EQUIPMENT SCHEDULE				
TAG	ITEM	#	MODEL #	REMARKS
1	LEARNING TABLE W/ WIRE CHASE	5	PARAGON CLS TABLE	FURNISHED BY OWNER; INSTALLED BY G.C.
2	TEACHER DESK W/ MOBILE FILE	2	PARAGON CREATIVE LEARNING TEACHER'S DESK	PROVIDED BY OWNER
3	STUDENT CHAIR	30	-	PROVIDED BY OWNER
4	TEACHER CHAIR	3	-	PROVIDED BY OWNER
5	LOCKING CABINET	1	-	PROVIDED BY OWNER
6	REPLICATION CABINET	1	-	PROVIDED BY OWNER
7	LAPTOP CHARGING CART	1	-	PROVIDED BY OWNER
8	OPEN WIRE STORAGE RACKS	11	OF-MISC 5	PROVIDED BY OWNER
9	TV MONITOR	1	-	PROVIDED BY OWNER
10	MOBILE 2-DRAWER FILE CABINET	2	PARAGON CLS SERIES	PROVIDED BY OWNER
11	WALL MOUNTED MANUAL PROJECTION SCREEN	2	REFER TO PROJECT SPECIFICATIONS (8'-0" X 9'-4")	PROVIDED BY G.C.
12	FLAMMABLE STORAGE CABINET	2	REFER TO PROJECT SPECIFICATIONS	PROVIDED BY OWNER
13	72" HIGH STORAGE CABINETS	2	-	PROVIDED BY OWNER
14	EMERGENCY CENTER WALL CABINET	1	REFER TO PROJECT SPECIFICATIONS	PROVIDED BY G.C.
15	GOGGLE WALL CABINET	1	REFER TO PROJECT SPECIFICATIONS	PROVIDED BY G.C.
16	EMERGENCY EYEWASH	1	REFER TO PROJECT SPECIFICATIONS	PROVIDED BY G.C.
17	FIRE EXTINGUISHER	8	REFER TO PROJECT SPECIFICATIONS	PROVIDED BY G.C.
18	SCIENCE STUDENT TABLES (EP/XY)	16	(30" x 60")	PROVIDED BY OWNER
19	STUDENT STOOLS	32	-	PROVIDED BY OWNER
20	LAB COAT HOOK (48" A.F.F.)	1	-	PROVIDED BY G.C.
21	WALL MOUNTED MOTORIZED PROJECTION SCREEN	1	REFER TO PROJECT SPECIFICATIONS (8'-1/2" x 12'-0")	PROVIDED BY G.C.
22	CHANGING BENCH	1	-	PROVIDED BY OWNER
23	BOOKCASE	1	-	PROVIDED BY OWNER
24	MOBILE REVERSIBLE WHITE BOARD (96" X 48")	1	CL-MISC-19	PROVIDED BY OWNER
25	UNDER COUNTER REFRIGERATOR	1	5 CU. FT.	PROVIDED BY OWNER



DUNNE TECHNOLOGY ACADEMY MODERNIZATION

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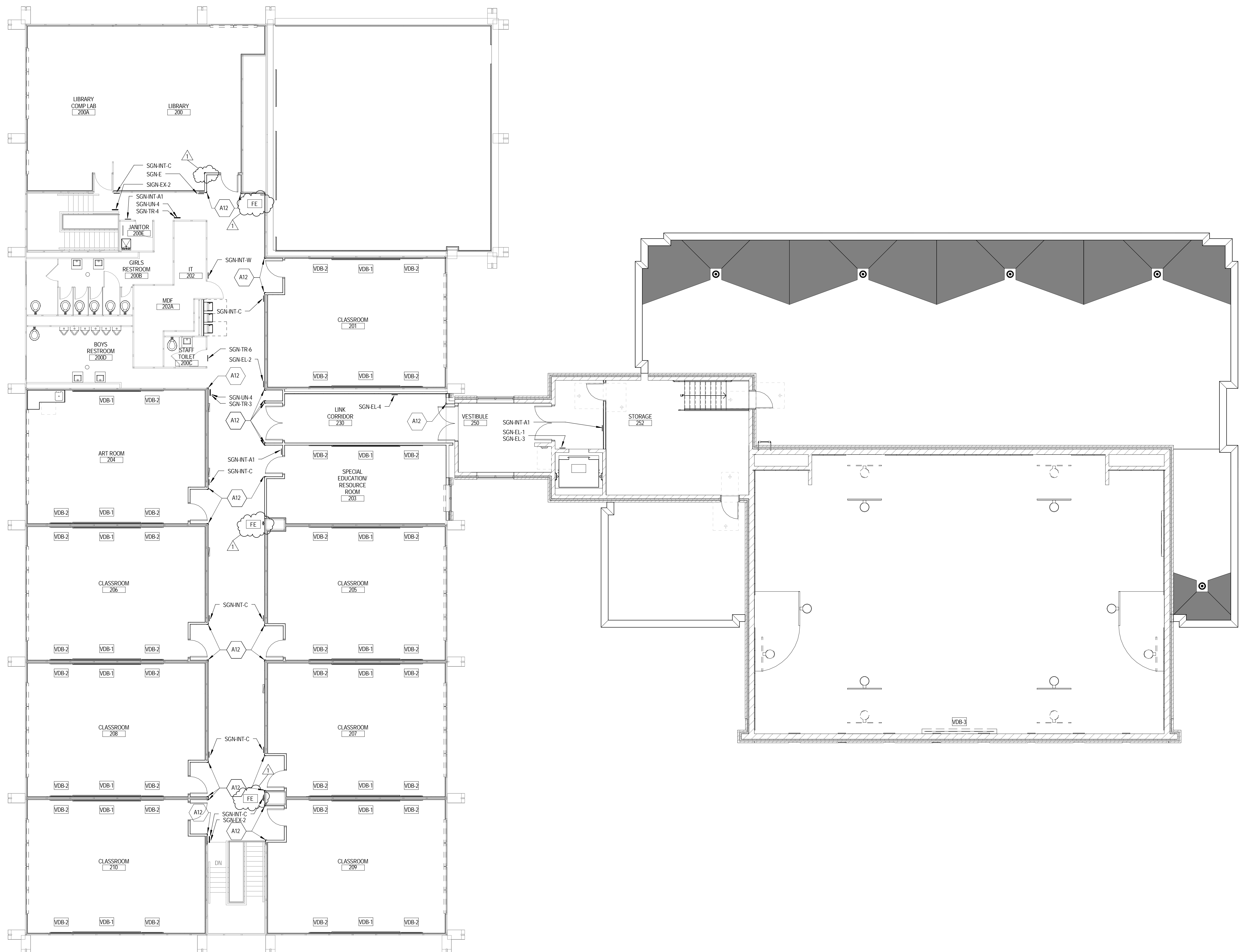
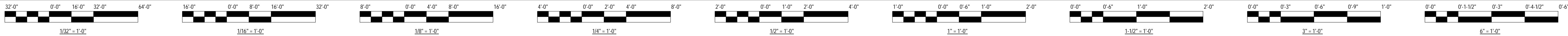
Mark	Description	Date
1	ISSUED FOR BID/PERMIT	2.13.2015
1	ADDENDUM #1	2.26.2015

WARNING: ALL DESIGN CONTAINING BUILDING MATERIALS SHALL BE PROVIDED BY THE CONTRACTOR. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE PROJECT FOR THE OWNER'S REVIEW. ALL PERSONNEL MUST WEAR APPROPRIATE PROTECTIVE EQUIPMENT. ALL WORK SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND ALL LOCAL, STATE AND FEDERAL REGULATIONS INCLUDING OSHA (FEDERAL), ILLINOIS (STATE), AND CHICAGO (LOCAL) REGULATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND ALL LOCAL, STATE AND FEDERAL REGULATIONS INCLUDING OSHA (FEDERAL), ILLINOIS (STATE), AND CHICAGO (LOCAL) REGULATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND ALL LOCAL, STATE AND FEDERAL REGULATIONS INCLUDING OSHA (FEDERAL), ILLINOIS (STATE), AND CHICAGO (LOCAL) REGULATIONS.

PBC Project Name: DUNNE TECH ACADEMY
PBC Contract No: C1566
PBC Project No.: 05440
FGM Project No.: 15-1950.01

Title
FIRST FLOOR FURNITURE & WALL MOUNTINGS PLAN

Sheet
A9.1.0



KEYNOTES - REFERENCE	
KEY NUMBER	DESCRIPTION
A12	PROVIDE 3" X 3" X 4'-0" HIGH STAINLESS STEEL CORNER GUARD.

KEYNOTES - SHEET	
KEY NUMBER	DESCRIPTION
A12	PROVIDE 3" X 3" X 4'-0" HIGH STAINLESS STEEL CORNER GUARD.

VISUAL DISPLAY LEGEND			
TAG	DESCRIPTION	TAG	DESCRIPTION
VDB-1	MARKER BOARD (12'-0" W x 4'-0" H) STANDARD MOUNTING HEIGHT	VDB-5	MARKER BOARD (12'-0" W x 4'-0" H) CHILDREN'S MOUNTING HEIGHT
VDB-2	TACK BOARD (4'-0" W x 4'-0" H) STANDARD MOUNTING HEIGHT	VDB-6	TACK BOARD (4'-0" W x 4'-0" H) CHILDREN'S MOUNTING HEIGHT
		VDB-7	VISUAL DISPLAY RAIL

- GENERAL INTERIOR SIGNAGE NOTES**
- FOR EXTERIOR SIGNAGE LOCATIONS REFER TO SHEET AD.0.1.
 - FOR INTERIOR SIGNAGE DESIGNATIONS REFER TO SHEETS A2.4.1 & A2.4.2. REFER TO ROOM FINISH SCHEDULE FOR ROOM NAME.
 - FOR INTERIOR MOUNTING SIGN DETAIL, REFER TO 31A2.4.3

EQUIPMENT SCHEDULE				
TAG	ITEM	#	MODEL #	REMARKS
1	LEARNING TABLE W/ WIRE CHASE	5	PARAGON CLS TABLE	FURNISHED BY OWNER; INSTALLED BY G.C.
2	TEACHER DESK W/ MOBILE FILE	2	PARAGON CREATIVE LEARNING TEACHER'S DESK	PROVIDED BY OWNER
3	STUDENT CHAIR	30	-	PROVIDED BY OWNER
4	TEACHER CHAIR	3	-	PROVIDED BY OWNER
5	LOCKING CABINET	1	-	PROVIDED BY OWNER
6	REPLICATION CABINET	1	-	PROVIDED BY OWNER
7	LAPTOP CHARGING CART	1	-	PROVIDED BY OWNER
8	OPEN WIRE STORAGE RACKS	11	OF-MISC 5	PROVIDED BY OWNER
9	TV MONITOR	1	-	PROVIDED BY OWNER
10	MOBILE 2-DRAWER FILE CABINET	2	PARAGON CLS SERIES	PROVIDED BY OWNER
11	WALL MOUNTED MANUAL PROJECTION SCREEN	2	REFER TO PROJECT SPECIFICATIONS (6'-0" x 8'-4")	PROVIDED BY G.C.
12	FLAMMABLE STORAGE CABINET	2	REFER TO PROJECT SPECIFICATIONS	PROVIDED BY OWNER
13	72" HIGH STORAGE CABINETS	2	-	PROVIDED BY OWNER
14	EMERGENCY CENTER WALL CABINET	1	REFER TO PROJECT SPECIFICATIONS	PROVIDED BY G.C.
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17	FIRE EXTINGUISHER	8	REFER TO PROJECT SPECIFICATIONS	PROVIDED BY G.C.
18	SCIENCE STUDENT TABLES (EPOXY)	16	(30" x 60")	PROVIDED BY OWNER
19	STUDENT STOOLS	32	-	PROVIDED BY OWNER
20	LAB COAT HOOK (48" A.F.F.)	1	-	PROVIDED BY G.C.
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22	CHANGING BENCH	1	-	PROVIDED BY OWNER
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24	MOBILE REVERSIBLE WHITE BOARD (96" X 48")	1	CL-MISC-19	PROVIDED BY OWNER
25	UNDER COUNTER REFRIGERATOR	1	5 CU. FT.	PROVIDED BY OWNER



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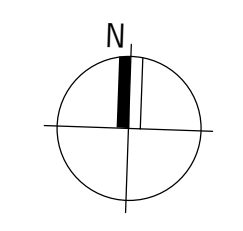
Mark	Description	Date
	ISSUED FOR BID/PERMIT	2.13.2015
▲	ADDENDUM #1	2.26.2015

WARNING: THESE STICKERS CONTAINING BUILDING MATERIALS NAME, SIZE AND BE PROVIDED IN BID/PERMIT. AN ADEQUATE MANAGEMENT PLAN IS AVAILABLE TO THE OWNER FOR REVIEW UPON REQUEST. THE WORKER MAY OCCUR AND/OR DAMAGE TO THE BUILDING MATERIALS, SURFACES, AND/OR EQUIPMENT. THESE STICKERS ARE THE PROPERTY OF THE CONTRACTOR AND SHOULD BE REMOVED FROM THE PROJECT IMMEDIATELY UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THESE STICKERS FROM THE PROJECT IMMEDIATELY UPON COMPLETION OF THE WORK.

LEED GREEN POINTS MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY PRECAUTIONS TO AVOID ACCIDENTS. WITH APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (FALLS), CONSTRUCTION SAFETY CHECKLISTS AND OTHER RELEVANT REGULATIONS. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

PBC Project Name: DUNNE TECH ACADEMY
 PBC Contract No: C1566
 PBC Project No.: 05440
 FGM Project No.: 15-1650.01

Title
SECOND FLOOR FURNITURE & WALL MOUNTINGS PLAN
 Sheet
A9.2.0



CHICAGO ENERGY NOTES

- 1. MINIMUM EQUIPMENT COOLING EFFICIENCY SHALL BE 9.7 EER.
2. ALL ROOFTOP UNITS AND AIR HANDLERS SHALL BE FURNISHED WITH ECONOMIZERS.
3. MOTORIZED DAMPERS SHALL BE INSTALLED ON ALL INTAKES AND EXHAUST OPENINGS UNLESS NOTED OTHERWISE.
4. MAXIMUM FAN NAMEPLATE HORSEPOWER SHALL NOT EXCEED 1.1 HP/1000CFM.
5. LOAD CALCULATIONS WERE BASED ON ASHRE 2001 FUNDAMENTALS.
6. ALL PROGRAMMABLE THERMOSTATS SHALL HAVE 5 DEGREE DEADBAND AND SHALL HAVE 7-DAY CLOCK, 2-HOUR MANUAL OVERRIDE, 10 HOUR BACKUP AND SETBACK CAPABLE OF 55 DEGREES HEATING AND 85 DEGREES COOLING. (EXCEPT CONTINUOUS OPERATING ZONES)
7. DUCT INSULATION AS SPECIFIED WITH MINIMUM VALUES AS FOLLOWS:
- R-6 SUPPLY AND RETURN DUCT INSULATION IN UNCONDITIONED SPACES.
- R-6 SUPPLY AND RETURN DUCT INSULATION FOR EXTERIOR DUCTS.
- R-3 SUPPLY AND RETURN DUCT INSULATION UNDERGROUND.
8. ALL DUCTWORK SHALL BE SEALED PRESSURE SENSITIVE TAPE IS NOT USED AS THE PRIMARY SEALANT. LONGITUDINAL AND TRANSVERSE SEAMS FOR DUCTS IN UNCONDITIONED SPACES AND WALL PENETRATIONS. TRANSVERSE SEAMS ON BURIED DUCTS.

CITY OF CHICAGO PERMITTING NOTES

- 1. ALL WORK PERFORMED AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CITY OF CHICAGO CODES.
2. ALL NEW DUCTWORK SHALL BE FABRICATED FROM PRIME FIRST QUALITY GALVANIZED SHEET METAL, UNLESS OTHERWISE NOTED. GAUGES OF METAL, HANGER SPACING, ETC. SHALL CONFORM TO THE LATEST EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR DUCT CONSTRUCTION (18-28-603.3).
3. PROVIDE MANUAL LOCKING TYPE VOLUME DAMPERS IN ALL BRANCH DUCTWORK TO AIR DIFFUSERS, REGISTERS AND GRILLES. (13-184-080(15))
4. ALL FLEXIBLE LOW-PRESSURE DUCTWORK SHALL BE INSULATED, CHICAGO APPROVED AND NOT EXCEED 6'-0" IN LENGTH. MANUFACTURER TO BE WIREMOLD, TYPE WK UL-181, CLASS 1.
5. PROVIDE TURNING VANES IN ALL LOW-PRESSURE 90-DEGREE DUCT TURNS.
6. TRANSFER DUCTS SHALL NOT EXCEED 5'-0" IN LENGTH.
7. ALL AIR MOVING EQUIPMENT SHALL BE INSTALLED WITH VIBRATION ISOLATORS AND PROVIDED WITH FLEXIBLE DUCT CONNECTIONS.
8. ALL EQUIPMENT SHALL HAVE TOTALLY ENCLOSED MOTORS AND BE RATED TO OPERATE IN PLENUM CEILINGS, INCLUDING ALL SUPPLY AIR AND RETURN AIR FAN MOTORS EXPOSED TO THE AIR STREAM.
9. THE CONTRACTOR SHALL GUARANTEE THAT THE PLENUM CHAMBER USED FOR RECIRCULATION OF AIR WILL BE OF TIGHT CONSTRUCTION AND THAT ALL SOURCES OF AIR CONTAMINATION FROM TRAPS, SOIL STACKS, DOWN SPOUTS, VENTS, EXHAUST DISCHARGES AND OTHER SOURCES WILL BE ENCLOSED SO THAT NO CONTAMINATED AIR WILL BE RECIRCULATED.
10. THE MAXIMUM SOUND PRESSURE LEVEL, "A-SCALE LEVELS", AT THE PROPERTY LINE BORDERING RESIDENTIAL AREAS SHALL NOT EXCEED 55 DECIBELS (dB) FOR HVAC EQUIPMENT INSTALLED UNDER THIS CONTRACT.
11. OUTSIDE AIR INTAKES SHALL BE AT LEAST 10'-0" ABOVE GRADE AND A MINIMUM OF 15'-0" FROM ALL EXHAUST AIR AND SOURCES OF CONTAMINATION. MAXIMUM VELOCITY THROUGH OUTSIDE AIR LOUVERS AND DUCTWORK SHALL NOT EXCEED 1000 FPM.
12. ALL FLUES SHALL TERMINATE 6'-0" ABOVE THE ROOFLINE.
13. STRAINERS, ISOLATION VALVES AND BALANCE VALVES SHALL BE LINE SIZE UNLESS NOTED OTHERWISE.
14. PROVIDE MANUAL AIR VENTS TO ALL HIGH POINTS IN PIPING.
15. ALL EXPANSION VALVES, DEVICES AND CONNECTIONS SHALL BE REMOVED FROM THE AIRSTREAM OF ALL MECHANICAL EQUIPMENT AS PER CITY OF CHICAGO CODE. (13-192-380)
16. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL A SAFETY RELIEF VALVE DESIGNED TO RELIEVE AND/OR PREVENT THE BUILDUP OF EXCESSIVE REFRIGERANT PRESSURE WITHIN THE DIRECT-EXPANSION SYSTEM. THE PRESSURE RELIEF DEVICE SHALL BE SET AT 400 PSI AND SHALL BE INSTALLED ON THE HIGH PRESSURE SIDE AT THE DISCHARGE OF THE COMPRESSOR AND UPSTREAM OF THE COMPRESSOR SHUT-OFF (STOP) VALVE. (13-192-520 thru 560)
17. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL A REFRIGERANT-RELIEF DISCHARGE PIPE. THE DISCHARGE PIPE OUTLET SHALL BE INSTALLED A MINIMUM OF 12'-0" ABOVE THE GROUND AND A MINIMUM OF 10'-0" FROM ANY OPENING, AND 20'-0" FROM ANY FIRE ESCAPE AND SHALL DISCHARGE THROUGH A TURNED DOWN ELBOW. (18-28-1106.13).
18. REFRIGERATION PIPING SHALL BE TYPE K COPPER WITH BRAZED SOCKET TYPE FITTINGS. (18-28-1107.4.4).

CHICAGO HEAT SCHEDULE

Table with columns: ROOM TAG, ROOM NAME, FLOOR AREA (SF), BASIS, HEAT LOSS DATA (BTUH), HEAT SUPPLY DATA (BTUH), REQUIRED SUPPLY (CFM), ACTUAL SUPPLY (CFM), REMARKS. Includes rows for WEST VESTIBULE, ELEV MACHINE RM, TOILET, ELECTRICAL, GYM STORAGE, STEM CLASSROOM, CORRIDOR, OFFICE/STORAGE, SCIENCE STORAGE, SCIENCE CLASSROOM, EAST VESTIBULE, GYM OFFICE, WATER & PUMP RM, GYM, 2ND FL VESTIBULE, STORAGE.

BUILDING PRESSURIZATION TABLE

Table with columns: Total Ordinance Required Outside Air (CFM), Total Actual Continuous Exhaust (CFM). Values: 3416, 1710. Includes a note: 'Note: This table is to show conformity to Section 18-28-501.4. Note: Table reflect new building addition Only.'

REFRIGERATION SCHEDULE

Table with columns: ITEM TAG, DESCRIPTION, NO. OF COMP., TYPE, TON PER COMP., HP PER COMP., REFRIG. TYPE, CHARGE (LBS), ARRANGEMENT, COOLING, LOCATION, GROUP OR SPECIAL, REMARKS. Includes rows for RTU-1, RTU-2, CU-1, CU-2, CU-3 and various remarks regarding pressure relief valves and piping.

CHICAGO VENTILATION SCHEDULE (Annex)

Table with columns: ROOM TAG, ROOM NAME, NET FLOOR AREA (SQFT), ROOM PURPOSE PER TABLES, ORDINANCE REQUIREMENTS, ACTUAL PROVIDED, REMARKS. Includes rows for STEM CLASSROOM, OFFICE/STORAGE, SCIENCE STORAGE, SCIENCE CLASSROOM, WEST VESTIBULE, CORRIDOR, EAST VESTIBULE, ELEV. MACHINE ROOM, TOILET, ELECTRICAL ROOM, GYMNASIUM STORAGE, GYMNASIUM, GYMNASIUM OFFICE, WATER & PUMP ROOM, VESTIBULE, 2nd Fl, STORAGE.

CHICAGO VENTILATION SCHEDULE (Existing Building)

Table with columns: ROOM TAG, ROOM NAME, FLOOR AREA (SQFT), ROOM PURPOSE PER TABLES, ORDINANCE REQUIREMENTS, ACTUAL PROVIDED, REMARKS. Includes rows for NEW LINK CORRIDOR, PARENTS ROOM, NEW LINK CORRIDOR, SPECIAL EDUCATION/RESOURCE.



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Table with columns: Mark, Description, Date. Includes row: 1 ADD #1 2.26.2015

PBC Project Name: DUNNE TECH ACADEMY
PBC Contract No: 05840
Project No.: FGM #15-1950.01
Title

REFRIGERATION SCHEDULES
Sheet
M7.0.1

TAG	SYSTEM	FACE DIMS		LENGTH	FLOW (CFM)	VEL (FPM)	DELTA P (IN WC)	DYNAMIC INSERTION LOSS GERATED NOISE AT FREQUENCY										VIBRO-ACOUSTICS MODEL NUMBER	COMMENTS
		W (IN)	H (IN)					63	125	250	500	1000	2000	4000	8000				
S-1	RTU-1	24	48	60	4400	519+	0.21	11	11	6	14	10	6	6	5	REFL-XV-FX	1,2		
S-2	RTU-1	24	48	60	4400	519-	0.19	8	11	9	2	1	0	0	0	REFL-XV-FX	1,2		
S-3	RTU-2	24	48	60	7150	795+	0.25	6	10	11	16	14	15	16	15	REFL-XV-FX	1,2		
S-4	RTU-2	24	48	84	7150	596-	0.25	13	4	0	0	0	0	0	0	REFL-XV-FX	1,2		

2 DESIGNATES FLOW + FOR FORWARD AND - FOR REVERSE FLOW
 1 FLAME SPREAD RATING NOT EXCEEDING 25 AND SMOKE DEVELOPED INDEX LESS THAN 50
 2 SUPPLIER SHALL PROVIDE PRESSURE DROP CALCULATIONS WITH PE STAMP, INCLUDING SYSTEM EFFECTS, AT THE TIME OF SUBMITTALS.

HOOD SCHEDULE								
TAG	LOCATION	SERVICE	HOOD DATA			MANUFACTURER (GREENHECK) AND MODEL	UNIT WT LBS	REMARKS
			TYPE	W	CFM			
EH-1	KITCHEN	WARMERS	II	60	407	900	GHEW	250

NOTE: UNIT SERVES AS AN EXISTING BOLDGET 1 STACKED 11 KW CONVECTION OVEN SET (2 UNITS) TO REMOVE HEAT FROM SPACE. CENTER HOOD OVER OVEN SET.

SPLIT SYSTEM FAN COIL SCHEDULE														
TAG	LOCATION	COND UNIT	AIR FLOW (CFM)	STATIC PRESS (IN WG)	INPUT (WATTS)	TOTAL CAPACITY (BTUH)	FILTER TYPE	ELECTRICAL DATA				UNIT WT (LBS)	MANUFACTURER & MODEL	REMARKS
								V	PH	HZ	HTR			
FC-1	OFFICE	CU-1	335	N/A	2600	14000	WASH / ANTI-MOLD	208	1	60	2.5kW	60	TRANE PTHC-15	1
FC-2	MULTIPURPOSE	CU-2	1500	1	48000	30000	WASH / ANTI-MOLD	208	1	60	3kW	60	DAIKIN FXQPJVUJ	1, 3, 4
FC-3	MULTIPURPOSE	CU-3	1500	1	48000	30000	WASH / ANTI-MOLD	208	1	60	3kW	60	DAIKIN FXQPJVUJ	1, 3, 4

1 USE THE POWER CONNECTION FOR THE EXISTING AC UNIT
 2 PROVIDE SLEEVE AND SUPPORT SYSTEM FOR INSTALLATION IN THE PANEL WALL
 3 UNIT REPLACES EXISTING OLD MOUNTED FAN COIL
 4 EQUIP WITH MIN 10KW HEATER W/HEATER W/ 3 STAGES TO MATCH EXIST

FAN SCHEDULE																						
TAG	LOCATION	SERVICE	CFM	SP IN WC	FAN DATA					MOTOR DATA					MANUFACTURER (GREENHECK) MODEL	UNIT WT LBS	REMARKS					
					TYPE	CLASS	RPM	DRIVE	HORIZ	VERT	BHP	HP	VOLT	PH				HZ				
EF-1	CEILING	TOILET	200	0.375	CENT						128W	120	1	60	SPB-150	10	1					
EF-2	ROOF	ELEV MACH RM	100	0.375	CENT						1550	DIRECT	X	0.02	180	120	1	60	VS-080	15	1	
EF-3	ROOF	KITCHEN	1200	0.5	CENT						1140	BELT	X	0.17	1/4	120	1	60	GB-131	25	MATCH EXIST ELECTRICAL	
EF-4E																						EXISTING TO REMAIN
EF-5E																						EXISTING TO REMAIN
EF-6E																						EXISTING TO REMAIN
EF-7E																						EXISTING TO REMAIN
EF-8	ROOF	SCIENCE & STORAGE	1110	0.25	CENT						1210	BELT	X	0.2	1/4	120	1	60	GB-081	50	1	
EF-9	ROOF	ELEC ROOM	300	0.25	CENT						1070	BELT	X	0.2	1/8	120	1	60	GB-101	61	1	
EF-10	ROOF	KITCHEN HOOD EXH	900	0.75	CENT						1550	BELT	X	0.22	1/4	120	1	60	GB-101	61	1	

1 PROVIDE GRAVITY BACKDRAFT DAMPER, INSECT SCREEN AND ROOF CURB.
 2 PROVIDE BACKDRAFT DAMPER ON DISCHARGE, INSECT SCREEN AND DISCHARGE HOODED WALL CAP.
 3 INTERLOCK FAN WITH ROOM LIGHTING.

AIR COOLED CONDENSER SCHEDULE																	
TAG	LOCATION	UNIT SERVICE	AMB. TEMP. °F	REJECTION CAPACITY BTUH	COMPRESSOR DATA			CONDENSER FAN		ELECTRICAL DATA				UNIT WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS	
					TYPE	QTY/HP	STEPS	QTY	HP EA.	CFM TOTAL	V	PH	HZ				FLA
CU-1	WALL	FCU-1	95	14800	ROTARY	1/0.5	1	1	0.5	500	208	3	60	15	130	TRANE PTHC-15	
CU-2	ROOF	FCU-2	95	48000	ROTARY	1/0.5	1	1	1.0	790	208	3	60	20	80	DAIKIN-RZQ35PVUJ	1
CU-3	ROOF	FCU-3	95	48000	ROTARY	1/0.5	1	1	1.0	790	208	3	60	20	80	DAIKIN-RZQ35PVUJ	1

1. REPLACE EXISTING CONDENSATE PUMP, CLEAN PIPING & MAKE SURE CONDENSATE DRAINS FROM UNIT.

RTU SCHEDULE																														
TAG	SERVICE TYPE			LOCATION	NOMINAL TONS	OA CFM	COOLING SECTION				HEATING SECTION			EVAPORATOR FAN		COMPRESSORS		CONDENSER FANS		ELECTRICAL			UNIT			MANUFACTURER & MODEL No.	WEIGHT	REMARKS		
	CAV	VAV	MULTIZONE				TOTAL MBH	SENSIBLE HEAT	EAT DB/WB	LAT DB/WB	STAGES	Kw	#	CFM	HP	ESP	#	RLA	LRA	#	HP	V	PH	HZ	MCA				MOCF	LRA
RTU-1	X			ROOF	12.5	1375	147.47	108.5	82/67	57.2/56.3	3	50	1	4370	3	2.3	2	17.8/23.2	123/164	3	1	208	3	60	155.3	175	446	CARRIER 50LC-14	2700	1-10
RTU-2	X			ROOF	15	2542	189.8	154.5	83/67	59.6/58.7	3	80	1	7150	10	1.6	2	19.1/27.6	123/191	4	1	208	3	60	227	250	544	CARRIER 50LC-17	3000	1-10

REMARKS:
 1. PROVIDE MERV13 EFFICIENCY FILTERS
 2. PROVIDE SINGLE POINT POWER CONNECTION AND WEATHER PROOF MAIN DISCONNECT.
 3. PROVIDE PREFABRICATED INSULATED FULL PERIMETER ROOF CURB 14" HIGH LEVEL TO ROOF WITH THRU-THE CURB POWER CONNECTIONS. 5. OUTSIDE AIR INTAKE SHALL BE 15'-0" MINIMUM AWAY FROM ANY EXHAUST DISCHARGE.
 4. PROVIDE FLEXIBLE CANVAS CONNECTIONS AT SUPPLY AND RETURN DUCT CONNECTIONS.
 5. UNIT SHALL HAVE SCR HEATING CONTROLS.
 6. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.
 7. UNIT SHALL INCLUDE FACTORY MOUNTED SMOKE DETECTOR AND CONTACTS FOR SMOKE ALARM
 8. PROVIDE FULLY MODULATING 5-100 PERCENT MOTORIZED ECONOMIZER.
 9. PROVIDE LOW AMBIENT CONTROL.
 10. UNITS SHALL INCLUDE HARDWIRED MONITOR CONTROL PANELS.

CABINET/UNIT HEATER SCHEDULE (ELECTRIC)																					
TAG	LOCATION	MOUNTING			THERMOSTAT		UNIT SIZE	HTG. ELEMENT		FAN/MOTOR DATA			DISCHARGE		UNIT DATA				MANUFACTURER AND MODEL	REMARKS	
		SURFACE MOUNTED	RECESSED	SEMI-RECESSED	REMOTE	UNIT MOUNTED		KW	LAT °F @ 70°F EAT	CFM	QTY	HP	HORIZONTAL	VERTICAL	DIMENSIONS WxHxD	WEIGHT, LBS	V	PH			HZ
CUH-1	VEST		X			X	5	91	450	1	1/60			X	24X24	31	208	3	60	INDEECO CDIR	1
CUH-2	VEST			X		X	5	91	450	1	1/60			X	24X24	31	208	3	60	INDEECO CDIR	
CUH-3	VEST		X			X	5	91	450	1	1/60			X	24X24	31	208	3	60	INDEECO CDIR	1

REMARKS:
 1. RECESSED CEILING UNIT

ELECTRIC UNIT HEATER SCHEDULE										
TAG	LOCATION	TYPE	SIZE (WV)	VOLT	PH	HZ	MANUFACTURER MODEL NUMBER	REMARKS		
EUH-1	ELECTRICAL ROOM	HORIZONTAL	2	208	1	60	REZNDR ELW			
EUH-2	GYM STORAGE	HORIZONTAL	1.5	208	1	60	REZNDR ELW			
EUH-3	WATER AND PUMP	HORIZONTAL	1.5	208	1	60	REZNDR ELW			
EUH-4	MAIN ENTRANCE	HORIZONTAL	2	208	1	60	TRANE UHWA	REUSE EXISTING POWER SUPPLY		
EUH-5	MAIN ENTRANCE	HORIZONTAL	2	208	1	60	TRANE UHWA	REUSE EXISTING POWER SUPPLY		
EUH-6	TOILET	HORIZONTAL	2	208	1	60	TRANE UHWA	REUSE EXISTING POWER SUPPLY		
EUH-7	TOILET	HORIZONTAL	2	208	1	60	TRANE UHWA	REUSE EXISTING POWER SUPPLY		
EUH-8	STORAGE	HORIZONTAL	3	208	1	60	TRANE ELW			

REMARKS:
 1. ALL EUHS INCLUDE SELF CONTAINED THERMOSTATS.

AIR DEVICE SCHEDULE				
ITEM TAG	MANUFACTURER AND MODEL NUMBER	TYPE	DESCRIPTION	REMARKS
A	"TITUS" #TMR-AA	ROUND CEILING DIFFUSER	LOUVERED, FULLY ADJUSTABLE ROUND SUPPLY DIFFUSER, ALUMINUM	1, 2, 3
B	"TITUS" #PAS-AA	24"x24" LAYIN DIFFUSER	PERFORATED SUPPLY CEILING DIFFUSER, 24x24	1, 2, 3
C	"TITUS" #PAR-AA	24"x24" LAYIN RETURN	PERFORATED RETURN CEILING DIFFUSER FOR DUCTED RETURN	1, 2, 3
D	"TITUS" #350RL "TITUS" #R-301F	SUPPLY / RETURN EXHAUST GRILLE	SINGLE DEFLECTION ANGLED FIXED 35 AND 45 DEG. BLADE	1, 2, 3

REMARKS:
 1. PROVIDE ADAPTER BOOTS AND PLENUM BOXES AS REQUIRED.
 2. PROVIDE MATTE WHITE FINISH IN LAY-IN AND DRY WALL AREAS. COORDINATE FINISH WITH ARCHITECT.

LOUVER SCHEDULE										
TAG	LOCATION	SERVING SYSTEM	SERVICE	CFM	MIN. FREE AREA SQ.FT.	MAX FPM THRU GROSS AREA	SPD IN W.C.	LOUVER DIMENSION WxHxD IN.	MANUFACTURER AND MODEL	REMARKS
L-1	ELEC. ROOM	ELECTRICAL	VENT	300	0.4	400	0.15	16x16	GREENHECK EAC-401	1

REMARKS:
 1. EQUIPMENT WITH ELECTRIC MOTOR OPERATED DAMPER INTERLOCKED WITH EF-9 TO OPEN WHEN EF-9 STARTS AND CLOSE WHEN EF-9 STOPS.

RELIEF VENT SCHEDULE												
TAG	LOCATION	CFM CAPACITY	MAX.S.P. IN.WG	THROAT AREA SQ. FT.	THROAT SIZE	THROAT VELOCITY	DAMPER BACKDRAFT	OPENING THRU ROOF	MANUFACTURER AND MODEL NO.	REMARKS		
RV-1	GYM ROOF	3500	0.1	9	36x36	800	BACKDRAFT	24X24	GREENHECK GRSR-36	1,2,3		
RV-2	GYM ROOF	3500	0.1	9	36x36	800	BACKDRAFT	24X24	GREENHECK GRSR-36	1,2,3		
RV-3	ROOF	200	0.1	0.45	8x8	445	BACKDRAFT	8x8	GREENHECK GRSR-36	1,2,3		

REMARKS:
 1. INSECT SCREEN
 2. INSULATED
 3. ROOF CURB MIN 14"

CONSTANT/VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE (ELECTRIC COIL)																
TAG	LOCATION	MAX. CFM	MIN CFM	DUCT SIZES INLET/OUTLET	HEATING (CFM)	BOX AIR P.D. INCH W.C.	TOTAL UNIT AIR P.D. INCH W.C.	MAX NC		ELECTRIC COIL					MANUFACTURER AND MODEL	REMARKS
								DISCHARGE	RADIATED	EAT °F	LAT °F	KW	V/PH/HZ	STAGES		
VAV-1	CORRIDOR	1600	400	8/12X12	800	0.3	0.5	25	25	70	94	6	208/360	3	NALOR D33RE	
VAV-2	CORRIDOR	1020	375	8/14X12	760	0.3	0.5	25	25	70	95	6	208/360	3	NALOR D33RE	
VAV-3	CORRIDOR	1150	375	8/14X12	575	0.3	0.5	25	25	70	97	5	208/360	3	NALOR D33RE	

- SEQUENCE OF OPERATIONS :
- 1. BYPASS DAMPER**
 THE PRESSURE SENSOR SHALL CONTROL THE BYPASS DAMPER TO MAINTAIN THE SETPOINT PRESSURE IN THE DUCT. INITIAL SETPOINT = 1.1" W.C.
 - 2. EXHAUST FANS**
 THE EXHAUST FANS SHALL OPERATE AS FOLLOWS:
 1. KITCHEN HOOD:
 a. UNIT SHALL BE STARTED AND STOPPED THROUGH A WALL SWITCH (WEST WALL) IN THE KITCHEN ADJACENT TO THE HOOD.
 - 2. ELECTRICAL ROOM FAN:
 a. A THERMOSTAT LOCATED AT THE ROOF OPENING SHALL START THE FAN WHEN THE TEMPERATURE RISES ABOVE 90°F (ADJUSTABLE) AND STOP WHEN THE TEMPERATURE FALLS BELOW 90°F
 b. WHEN THE EXHAUST FAN STARTS, THE OUTSIDE AIR LOUVER/DAMPER COMBINATION SHALL OPEN TO ITS FULL POSITION. WHEN THE FAN STOPS, THE DAMPER SHALL CLOSE.
 - 3. ELEVATOR MACHINE ROOM EXHAUST FAN:
 a. A THERMOSTAT LOCATED IN THE ROOM SHALL START THE FAN WHEN THE TEMPERATURE RISES ABOVE 90°F (ADJUSTABLE) AND STOP THE FAN WHEN THE TEMPERATURE FALLS BELOW 90°F
 - 4. TOILET EXHAUST:
 a. THE TOILET EXHAUST SHALL BE STARTED AND STOPPED FROM A WALL SWITCH LOCATED ADJACENT TO THE LIGHT SWITCH NEAR THE DOOR.



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Mark	Description	Date
	ISSUED FOR BID / PERMIT	2.13.2015
1	ADD # 1	2.26.2015

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LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS INCLUDING OSHA REGULATIONS. WASTE CHARACTERIZATION AND WASTE DISPOSAL: ALL WORK WITH LEAD-BASED COATINGS OR LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

PBC Project Name: DUNNE TECH ACADEMY
 PBC Contract No: 05440
 Project No.: FGM #15-1950.01
 Title

MECHANICAL SCHEDULES
 Sheet
M7.0.2