

YONKERS JOINT SCHOOLS CONSTRUCTION BOARD

NEW COMMUNITY SCHOOL 35 AT ST DENIS SITE

121 McLean Avenue
Yonkers, NY 10705

NOVEMBER 01, 2021

**NEW COMMUNITY SCHOOL
35 AT ST DENIS SITE**

NY SED Project Control No.
66-23-00-01-0-346-001

KG+D Project No.
2019-1026

DESIGN TEAM

ISSUE FOR BID



LIST OF DRAWINGS

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CC002 CODE COMPLIANCE

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G002 STAGING PLANS

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VOLUME 2

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Sheet Total: 228

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COVER

VOL. 2

LIST OF BACKFLOW PREVENTER APPURTENANCES

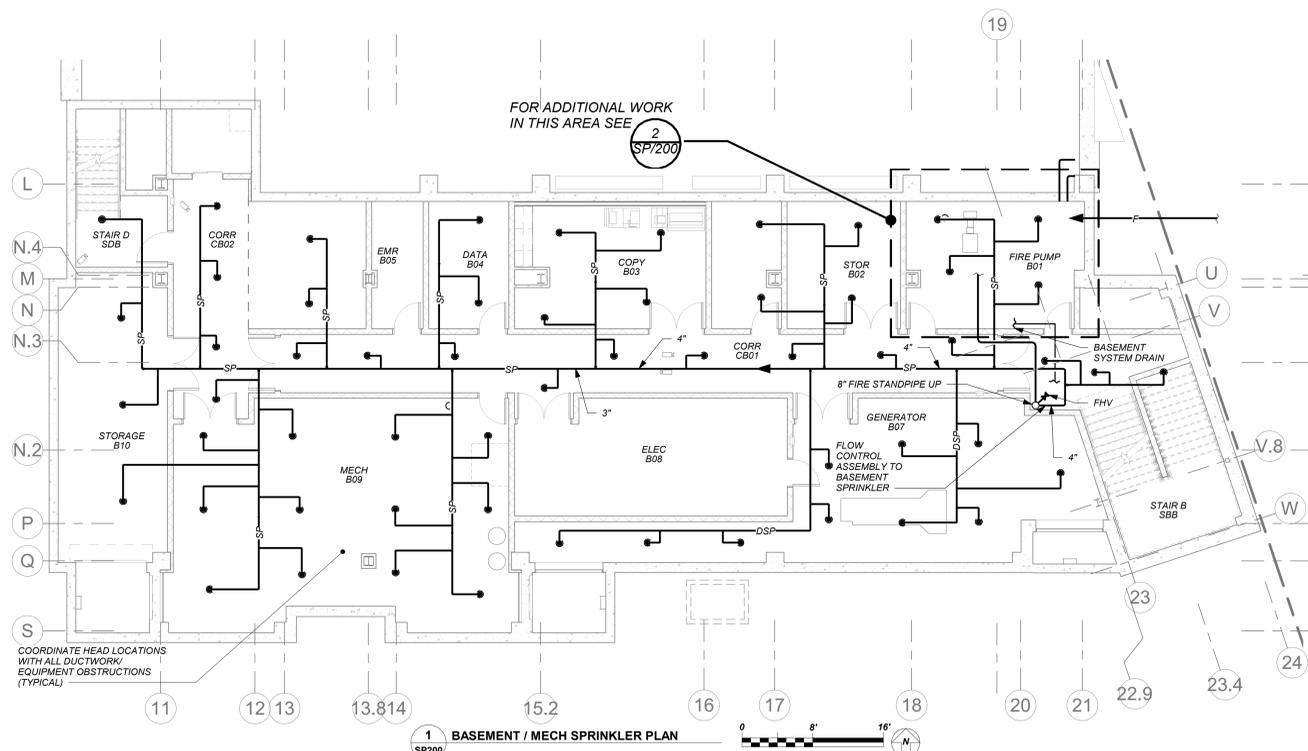
MARK	DESCRIPTION
1	RESILIENT SEATED GATE VALVE
2	TAMPER PROOF RESILIENT SEATED GATE VALVE WITH TAMPER SWITCH
3	STRAINER
4	4" RPZ BACKFLOW PREVENTER - WATTS SERIES 909
5	WATER METER (PER WATER DEPARTMENT)
6	2" TEST OUTLET VALVE
7	PRESSURE REDUCING VALVE
8	AIR GAP (JR SMITH 3955)
9	FUNNEL (JR SMITH 3811)
10	8" DOUBLE CHECK DETECTOR ASSEMBLY-WATTS SERIES 709 DCDA

GENERAL NOTES:

1. LOCATION OF BACKFLOW DEVICES SHALL HAVE ADEQUATE HEAT AND LIGHT.
2. BACKFLOW DEVICES SHALL BE PROTECTED FROM FLOODING.
3. BACKFLOW DEVICES AND WATER METER SHALL BE TESTED AFTER INSTALLATION.
4. OWNER SHALL ARRANGE FOR BACKFLOW DEVICES TO BE TESTED ANNUALLY BY A CERTIFIED TESTER.
5. ANY REVISIONS OR ALTERATION OF THESE PLANS WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE SIGNING ENGINEER IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

BACKFLOW PREVENTER FILING REQUIREMENTS

- A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A LICENCED ENGINEER TO FILE ALL APPLICATIONS PERMITS AND FILING FEES WITH THE AUTHORITIES HAVING JURISDICTION OVER THE WORK.**
- B. THE FOLLOWING LIST SERVES AS THE MINIMUM FILING REQUIREMENTS, FAILURE TO LIST ANY ITEM DOES NOT RELIEVE THE CONTRACTOR FROM FULFILLING THAT REQUIREMENT.**
1. CERTIFICATE OF RESOLUTION OF LETTER OF AUTHORIZATION FROM OWNER/USER TO AUTHORIZE LICENCED PROFESSIONAL TO EXECUTE FILING.
 2. PREPARE AND SUBMIT FORM DOH-347 WITH PLANS, PROFESSIONAL ENGINEERS REPORT AND SPECIFICATIONS WITH ENGINEER'S SEAL. FILE WITH HEALTH DEPARTMENT AND WATER DEPARTMENT.
 3. FILING FEES, PER DEVICE.
 4. EVIDENCE OF CONFORMANCE TO NEW YORK STATE SANITARY CODE, PART 5 AND CHAPTER 873 OF THE LAWS OF WESTCHESTER COUNTY.



LEGEND

	EXISTING PIPING, FIXTURES, ETC. TO REMAIN
	EXISTING PIPING, FIXTURES, ETC. TO BE REMOVED
	NEW PIPING, FIXTURES, ETC.
	WATER SERVICE PIPING EXTERIOR
	GAS PIPING
	FLOW DIRECTION WITHIN PIPE
	SHUT-OFF VALVE, GATE VALVE
	COMBINATION BALANCING & SHUT-OFF VALVE
	CHECK VALVE
	PIPE CONNS. (BOTTOM; TOP 45 OR 90; PIPE UP)
	PUMP DISCHARGE
	SPRINKLER PIPING
	DRY SPRINKLER PIPING
	FIRE SERVICE PIPING (EXTERIOR)
	SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	FIRE HOSE VALVE & PRV ASSEMBLY
	VENT THRU ROOF
	FRESH AIR INTAKE
	FLOOR DRAIN
	PRESSURE REDUCING VALVE/ PRESSURE REGULATING VALVE
	PLUMBING CONTRACTOR
	GENERAL CONTRACTOR
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	BACKFLOW PREVENTER APPURTENANCE IDENTIFICATION
	PART PLAN, DETAIL, SECTION NUMBER
	SECTION IDENTIFICATION

SPRINKLER GENERAL NOTES

1. CONTRACTOR SHALL NOT CUT ANY STRUCTURAL MEMBERS WITHOUT APPROVAL BY THE ARCHITECT. COORDINATE WITH OTHER PLUMBING AND DUCTWORK.
2. CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING VALVES, HEADS, TESTS, HANGERS, FITTINGS ANY MISCELLANEOUS COMPONENTS TO RENDER THE SPRINKLER SYSTEM COMPLETE, OPERABLE AND IN ACCORDANCE WITH APPLICABLE CODES AND GENERALLY ACCEPTED INDUSTRY STANDARDS.

FIRE PROTECTION DESIGN SUMMARY (WET SYSTEM)

OCCUPANCY CLASSIFICATION: (NFPA 13)
 ALL AREAS (EXCEPT AS NOTED BELOW): LIGHT HAZARD
 MISCELLANEOUS STORAGE: ORDINARY HAZARD GROUP 1

SPRINKLER SYSTEM TESTS

1. HYDROSTATIC - 200 PSI FOR 2 HOURS WITHOUT LOSS OF PRESSURE.
2. SYSTEM OPERATIONAL TESTS - WATER FLOW DETECTING DEVICES.
3. CONTRACTOR SHALL PERFORM ALL SPRINKLER SYSTEM TESTS REQUIRED BY LOCAL FIRE INSPECTOR OR AUTHORITY HAVING JURISDICTION.
4. ALL TESTS SHALL BE WITNESSED BY LOCAL FIRE INSPECTOR OR AUTHORITY HAVING JURISDICTION. SUBMIT REPORT ON ALL TESTS TO LOCAL FIRE INSPECTOR AND ENGINEER FOR APPROVAL.

SCHEDULE OF SPRINKLER BRANCH PIPING SIZES

PIPE SIZE	MAX # OF SPRINKLER HEADS
1"	2
1-1/4"	3
1-1/2"	5
2"	10
2-1/2"	20
3"	40

NOTES

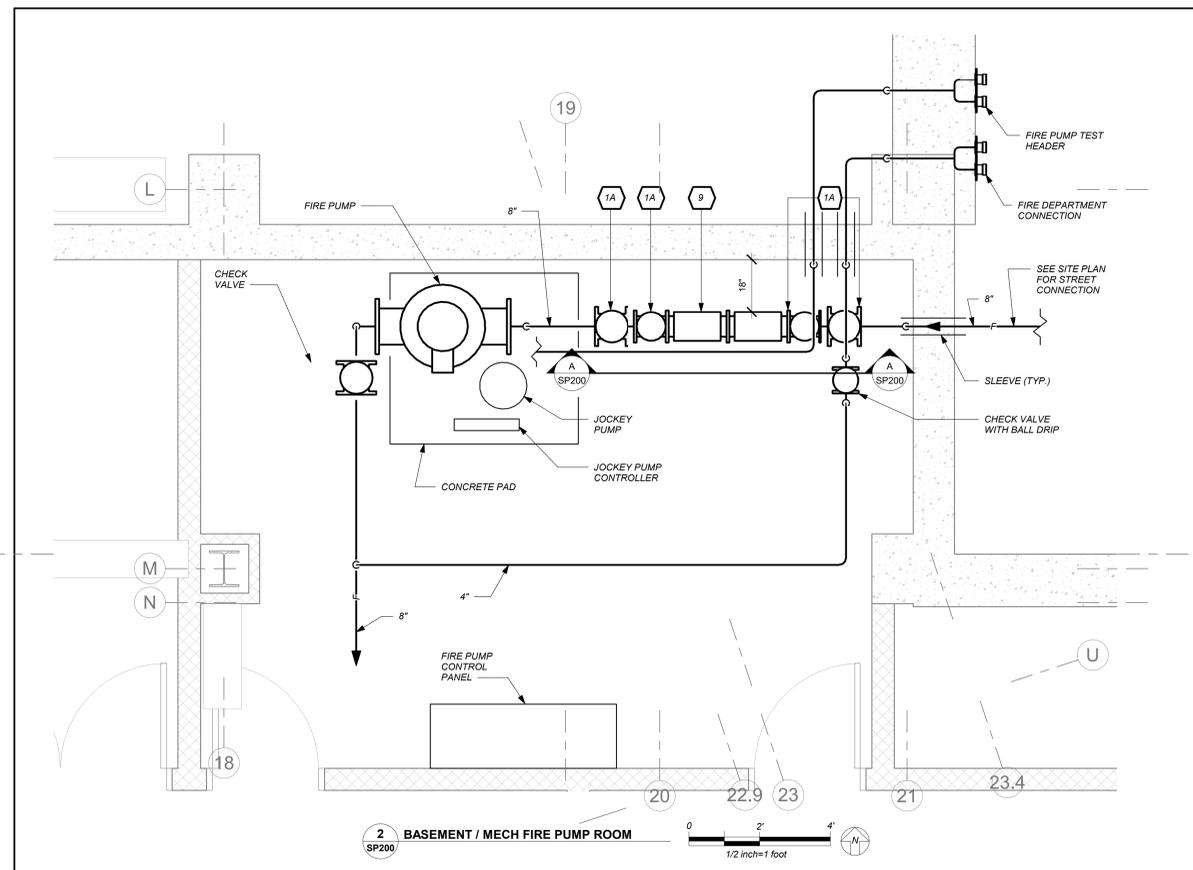
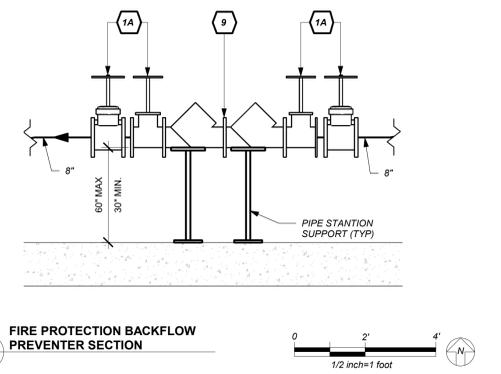
1. MAINS HAVE BEEN SHOWN. CONTRACTOR TO PROVIDE BRANCH PIPING BASED ON NFPA-13 PIPE SCHEDULE METHOD OF PIPE SIZING. HYDRAULIC METHOD WILL BE ACCEPTABLE AS WELL. SUBMIT SHOP DRAWINGS AND HYDRAULIC CALCULATIONS.

BUILDING STRUCTURE FIREPROOFING:

THE BUILDING STRUCTURE WILL BE PROTECTED BY 2" FIREPROOFING THROUGHOUT. THIS CONTRACTOR SHALL ISSUE COORDINATION DRAWINGS ACCORDING TO THE STRICT SCHEDULE OUTLINED IN THE "FRONT END" DOCUMENTS. ALL HANGERS FOR PIPING, CONDUIT, DUCTWORK, EQUIPMENT, ETC. MUST BE IN PLACE BEFORE FIREPROOFING TAKES PLACE. THE INSTALLATION OF HANGERS AFTER THE FACT THAT REQUIRES THE RE-APPLICATION OF FIREPROOFING WILL BE AT THE EXPENSE OF THIS CONTRACTOR.

BASEMENT WATERPROOFING:

REFER TO STRUCTURAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR SLAB/ WALL THICKNESS AND PENETRATION DETAILS. COORDINATE WITH G.C.



NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
 121 McLean Avenue
 Yonkers, NY 10705



NY SED PROJECT CONTROL NO.
 66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

Sheet Title

Legend, Schedule, Notes, and Basement Floor Sprinkler Plan

Job No. 2019-1026 Date 11/17/20

Scale AS NOTED Drawn / Checked BGA / BGA

Sheet Number

SP200

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
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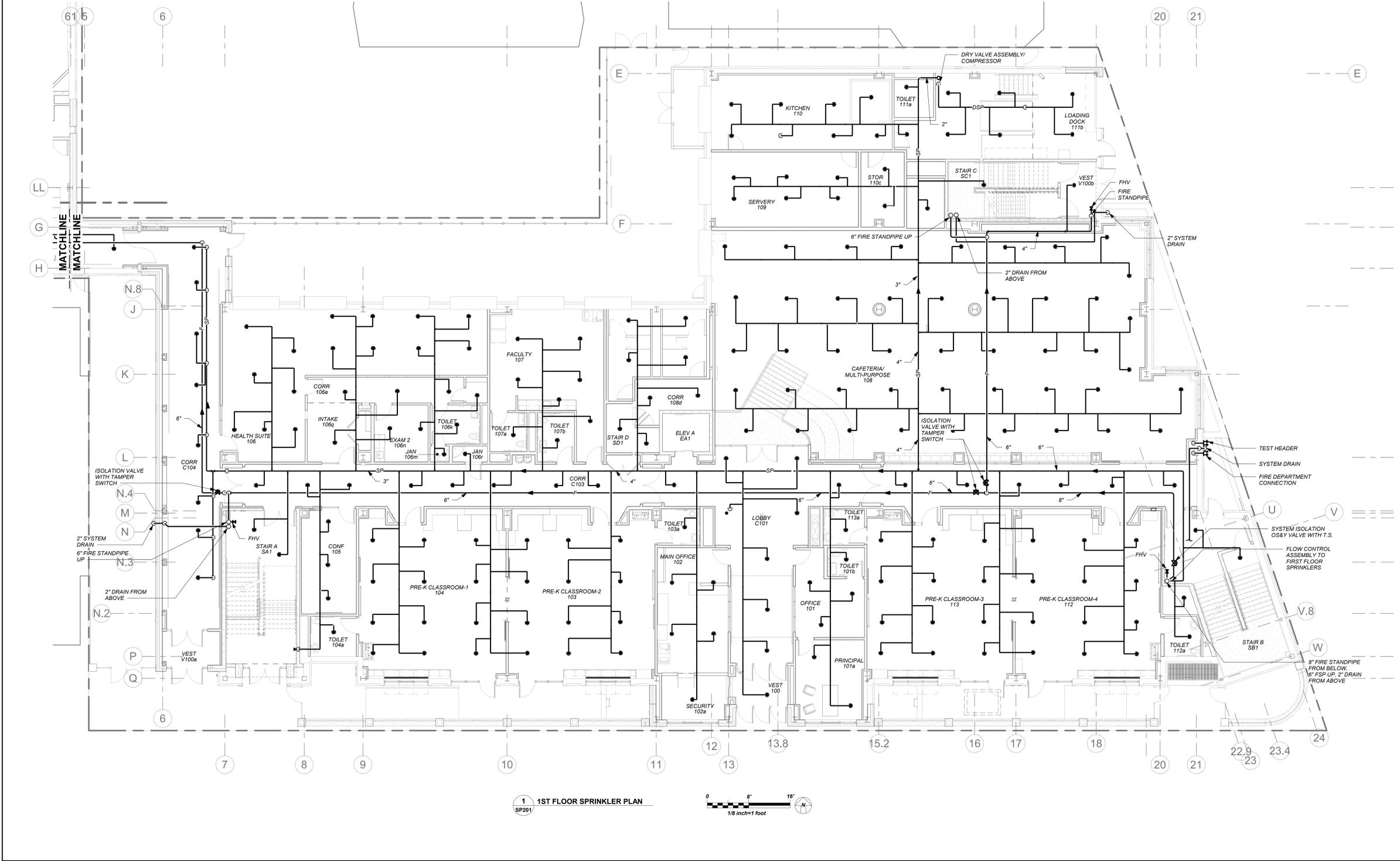
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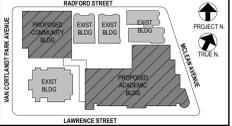
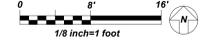
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1 1ST FLOOR SPRINKLER PLAN
SP201



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Professional Seal

No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title	
1st Floor Plan	
Job No.	Date
2019-1026	11/17/20
Scale	Drawn / Checked
AS NOTED	BGA / BGA
Sheet Number	
SP201	

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
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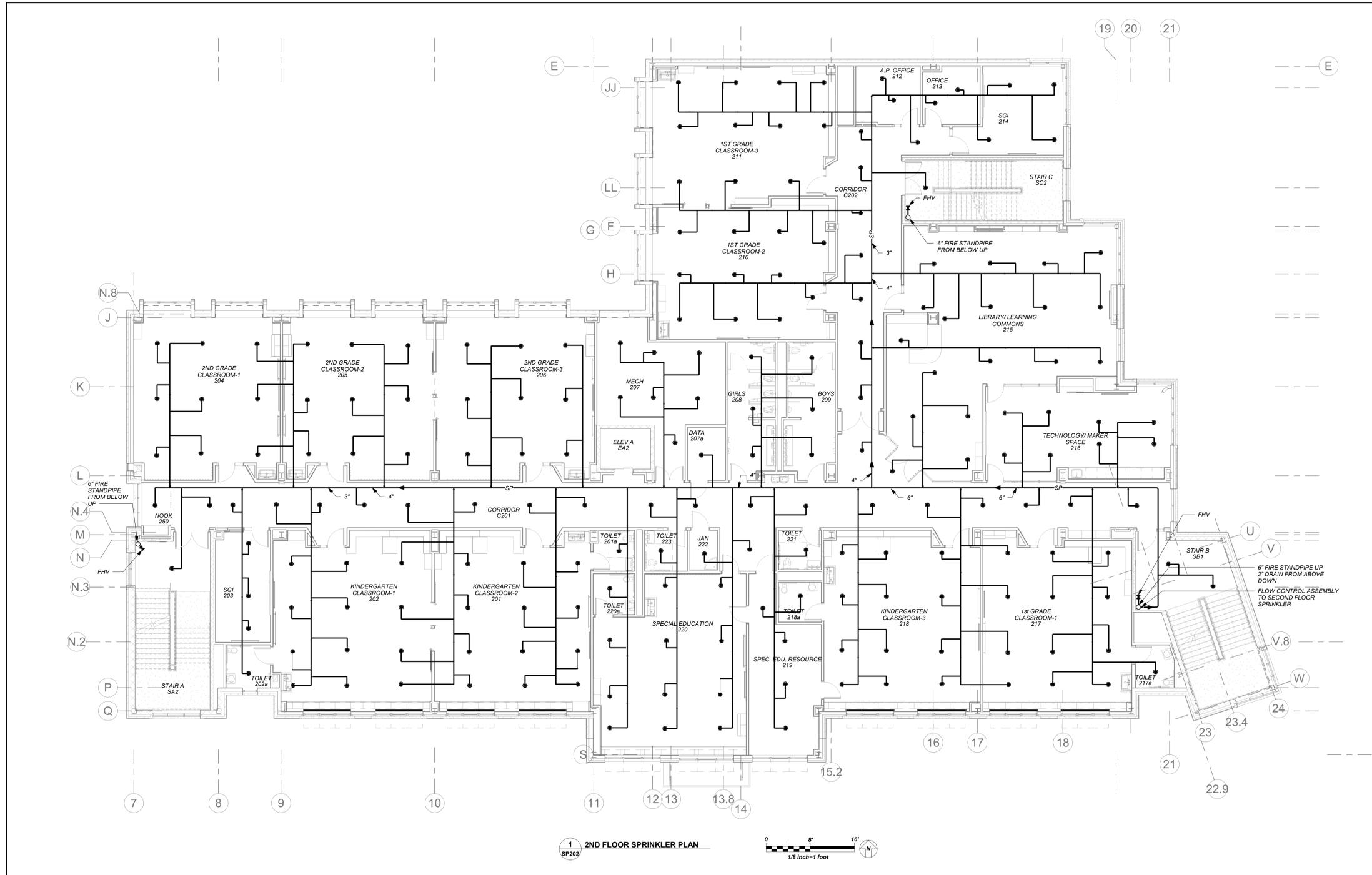
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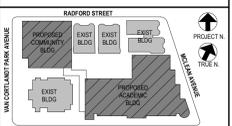
CONSTRUCTION DOCUMENTS



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1 2ND FLOOR SPRINKLER PLAN
SP202



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3	07/14/2021	CONSTRUCTION DOCS-NYS&D
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. _____ Date _____ Issue _____

Sheet Title

2nd Floor Plan

Job No.	2019-1026	Date	11/17/20
Scale	AS NOTED	Drawn / Checked	BGA / BGA

Sheet Number
SP202

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



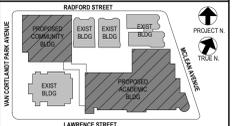
KG+D . ARCHITECTS PC
285 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P.914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
99 MARBLE AVE. PLEASANTVILLE, NY 10570
914.326.0099 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM



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3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No.	Date	Issue

Sheet Title

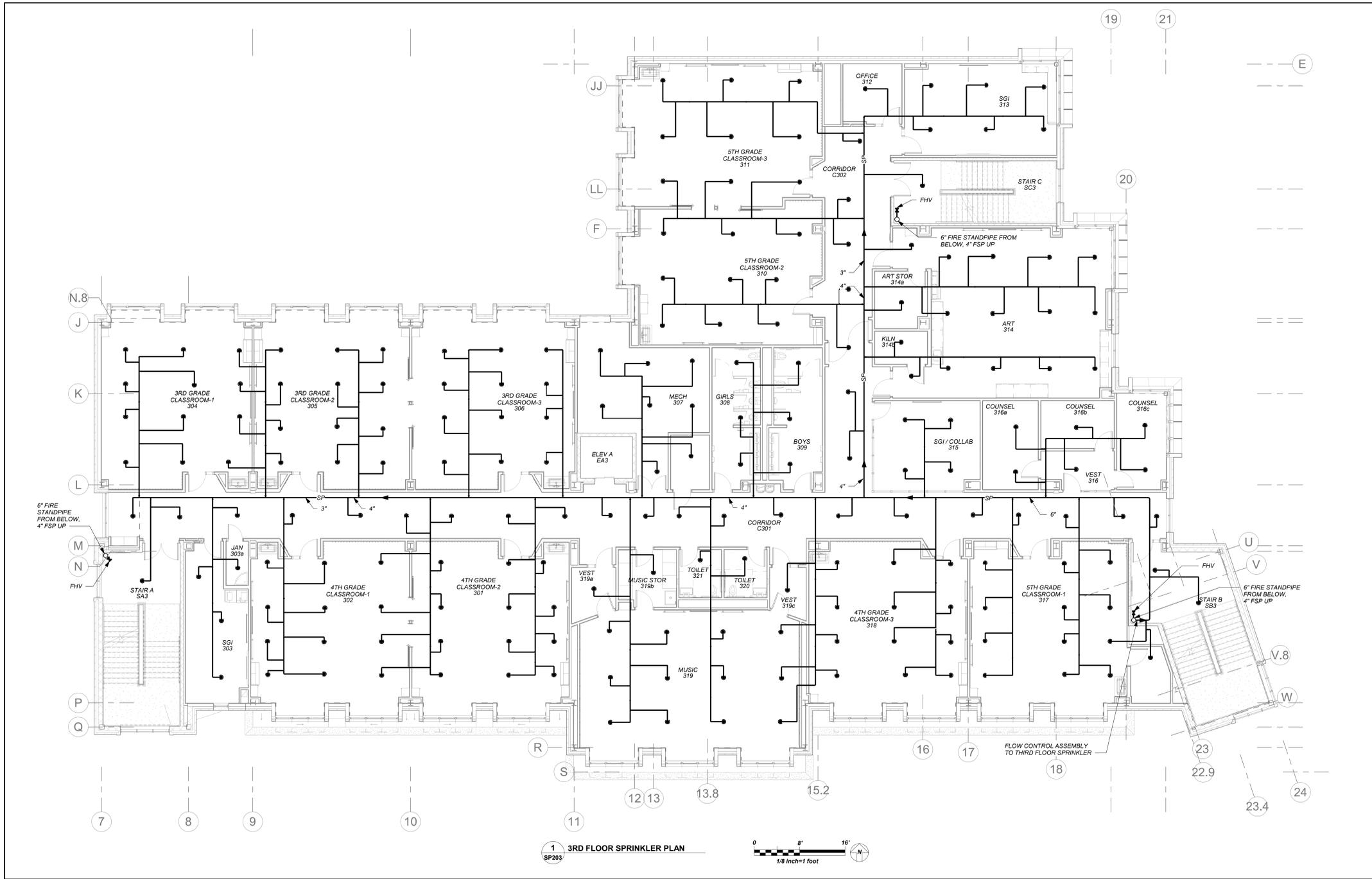
3rd Floor Plan

Job No. 2019-1026 Date 11/17/20

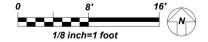
Scale AS NOTED Drawn / Checked BGA / BGA

Sheet Number

SP203



1 3RD FLOOR SPRINKLER PLAN
SP203



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NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

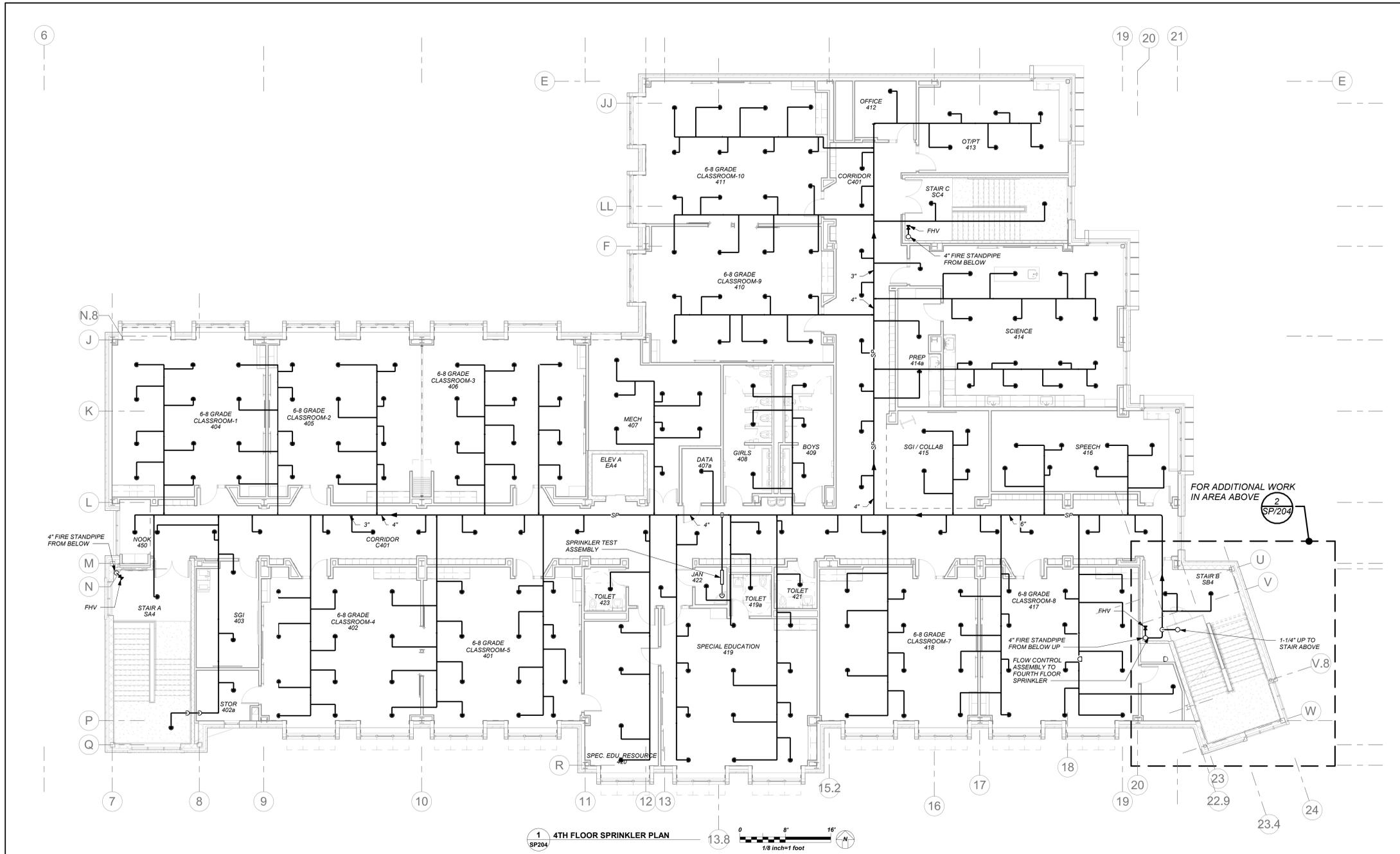
YONKERS JOINT SCHOOL CONSTRUCTION BOARD
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Yonkers, NY 10705

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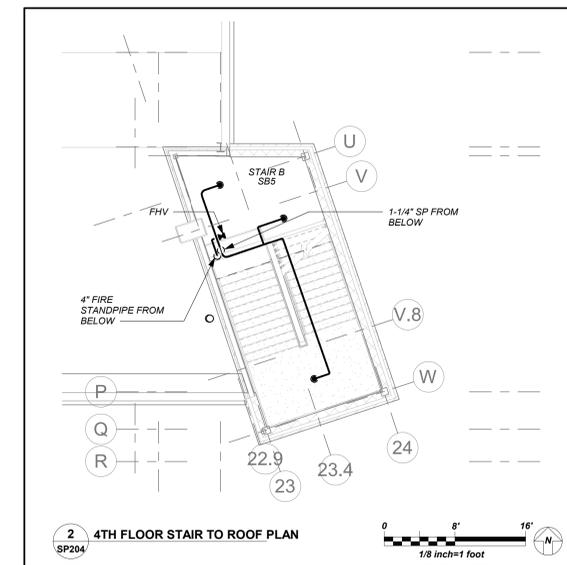
NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS

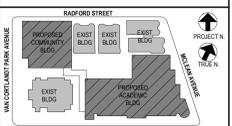
bga
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CONSULTING ENGINEERS
99 MARBLE AVE. PLASANTVILLE, NY 10570
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1 4TH FLOOR SPRINKLER PLAN
13.8 0 8' 16' 1/8 inch=1 foot



2 4TH FLOOR STAIR TO ROOF PLAN
13.8 0 8' 16' 1/8 inch=1 foot



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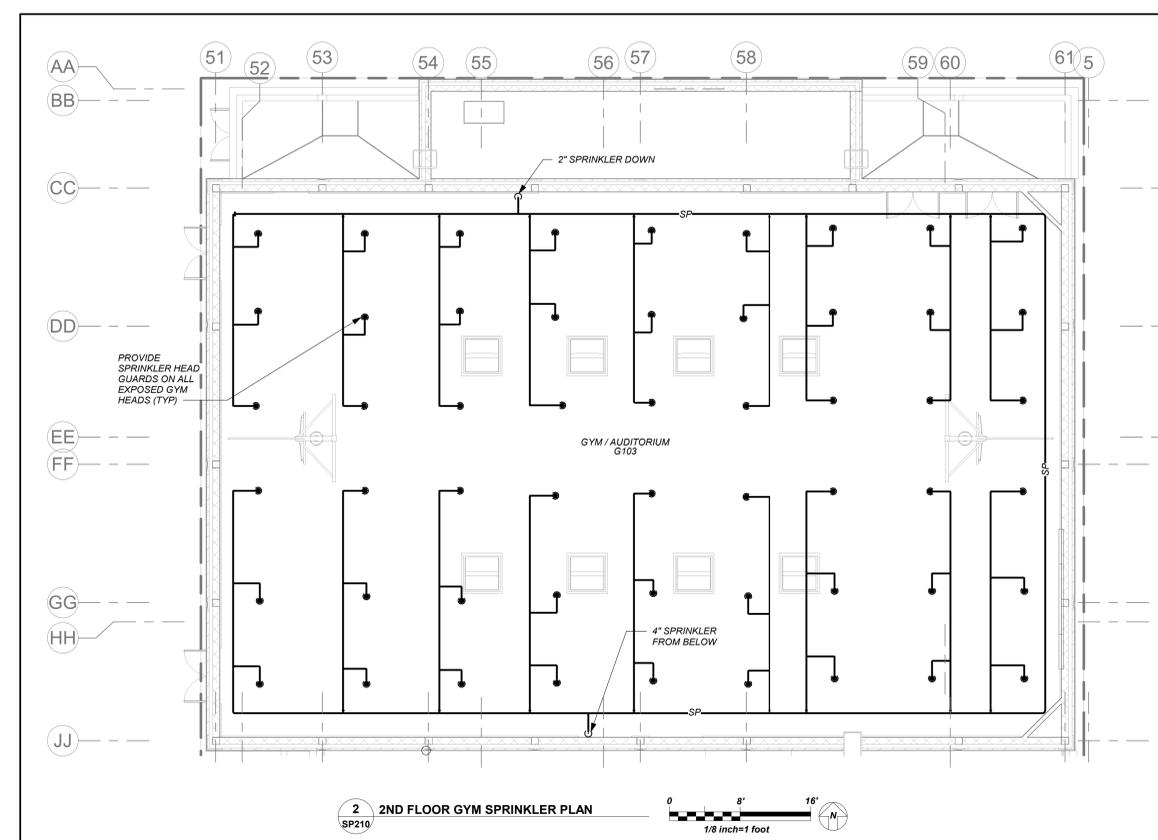
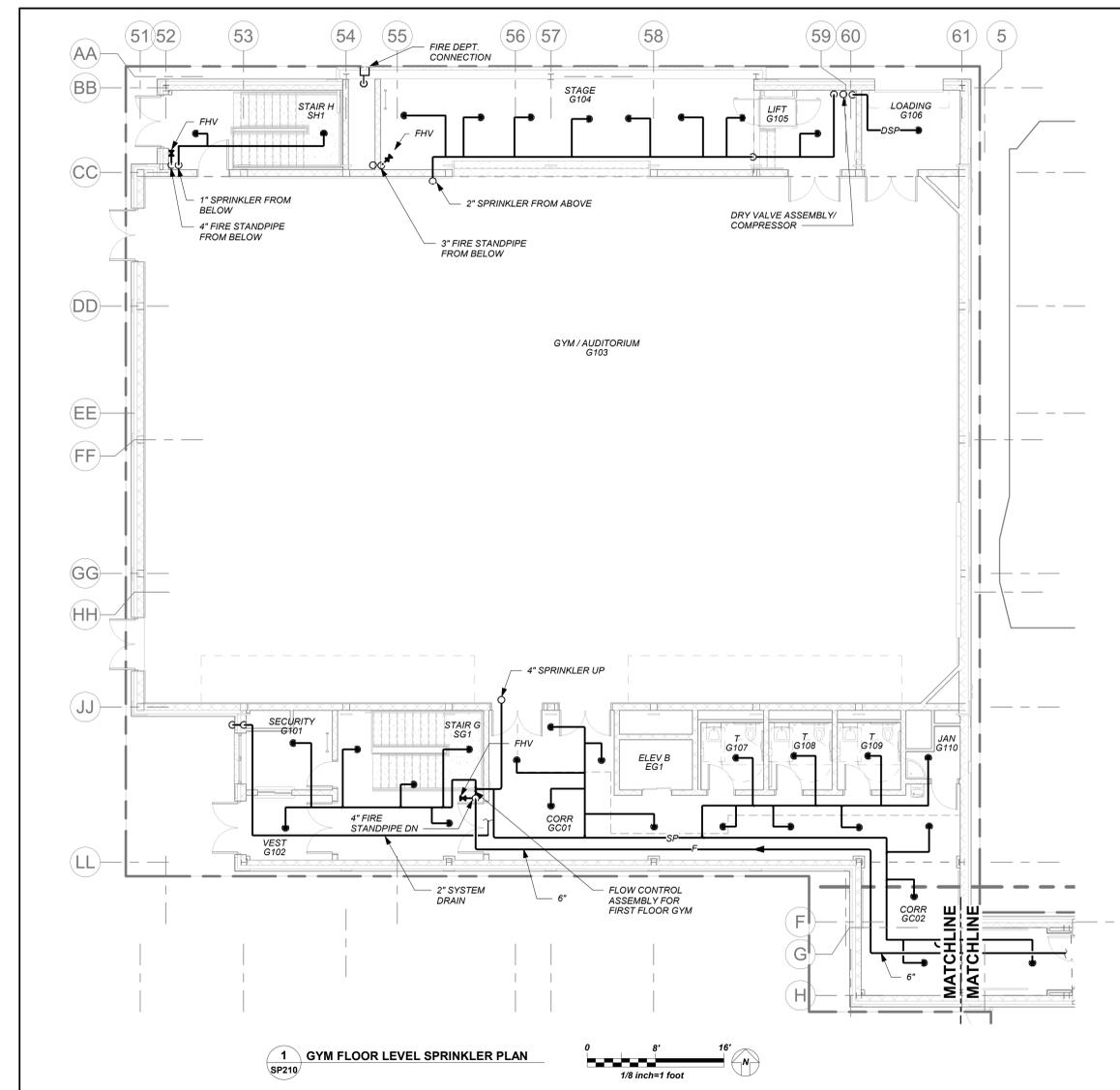
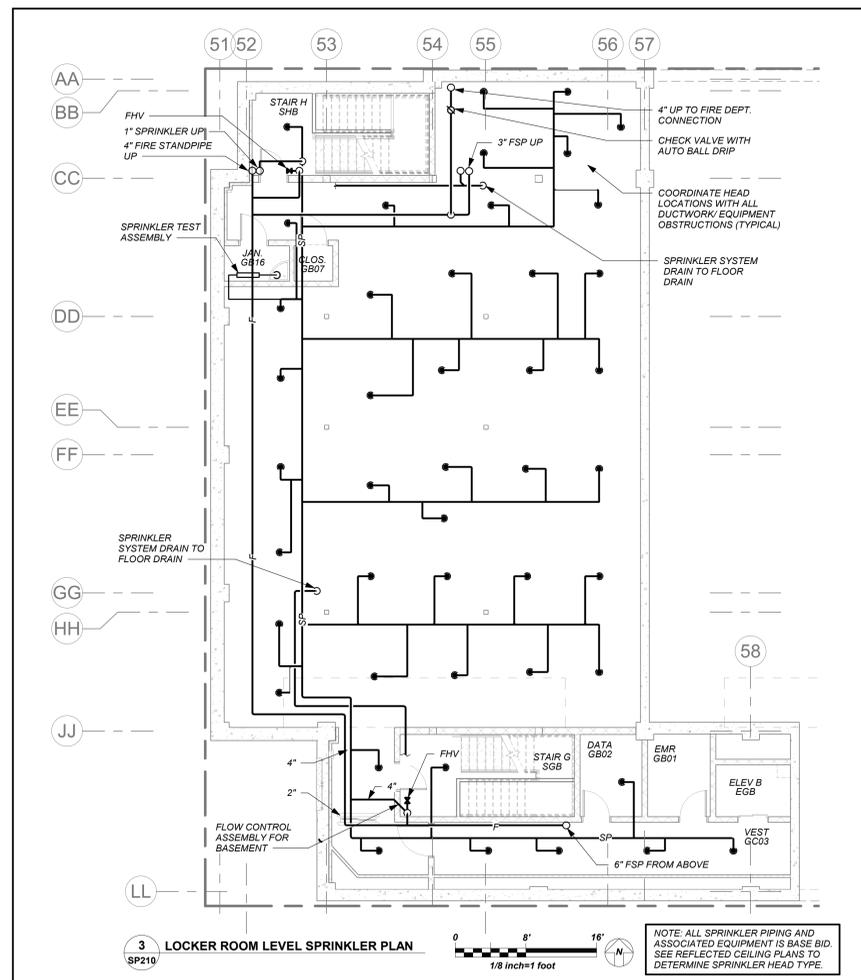
No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

4th Floor Plan

Job No.	2019-1026	Date	11/17/20
Scale	AS NOTED	Drawn / Checked	BGA / BGA
Sheet Number	SP204		

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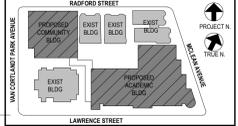
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 YONKERS JOINT SCHOOL CONSTRUCTION BOARD
 121 McLean Avenue
 Yonkers, NY 10705

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 285 MAIN STREET MOUNT KISCO, NEW YORK, 10549
 P.914.686.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
 66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS
bga
 BARILE GALLAGHER & ASSOCIATES
 CONSULTING ENGINEERS
 99 MARBLE AVE. PLEASANTVILLE, NY 10570
 P.914.268.0099 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM



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3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Professional Seal
 Community Wing Sprinkler Plan
 Job No. 2019-1026 Date 11/16/20
 Scale AS NOTED Drawn / Checked BGA / BGA
 Sheet Number
SP210

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



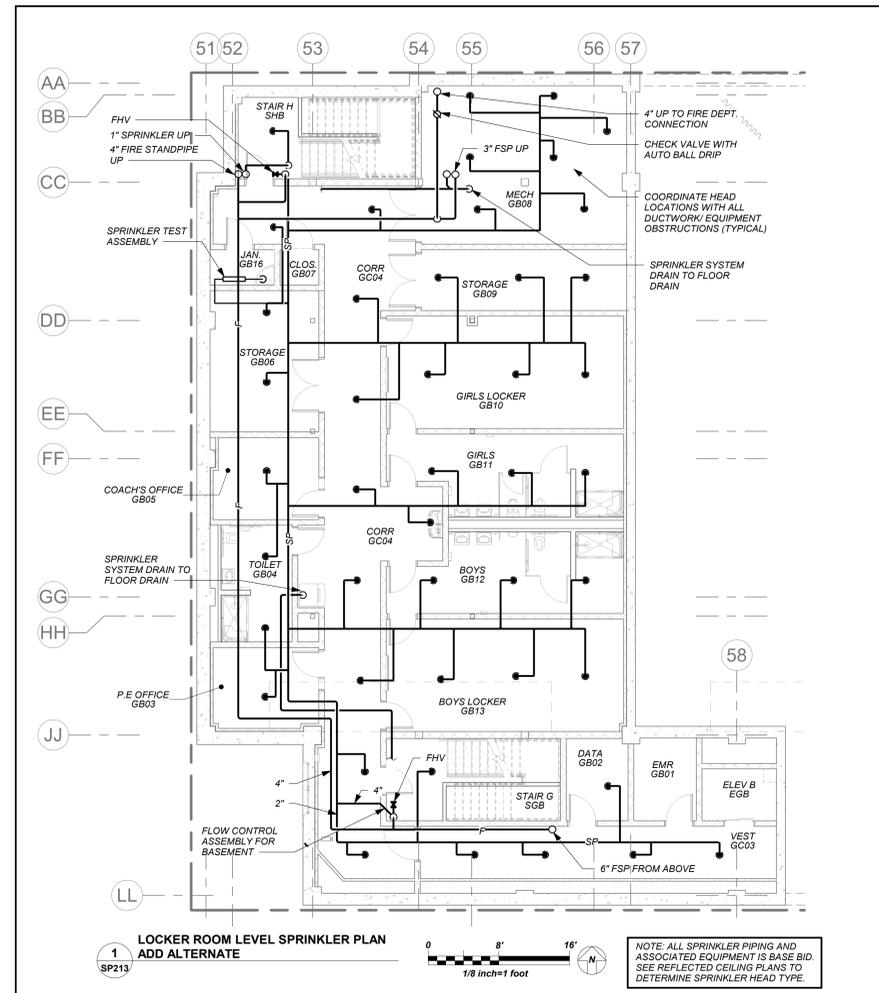
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66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



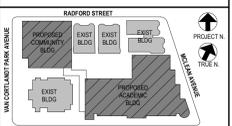
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1
SP213
LOCKER ROOM LEVEL SPRINKLER PLAN
ADD ALTERNATE



NOTE: ALL SPRINKLER PIPING AND ASSOCIATED EQUIPMENT IS BASE BID. SEE REFLECTED CEILING PLANS TO DETERMINE SPRINKLER HEAD TYPE.



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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. _____ Date _____ Issue _____

Sheet Title

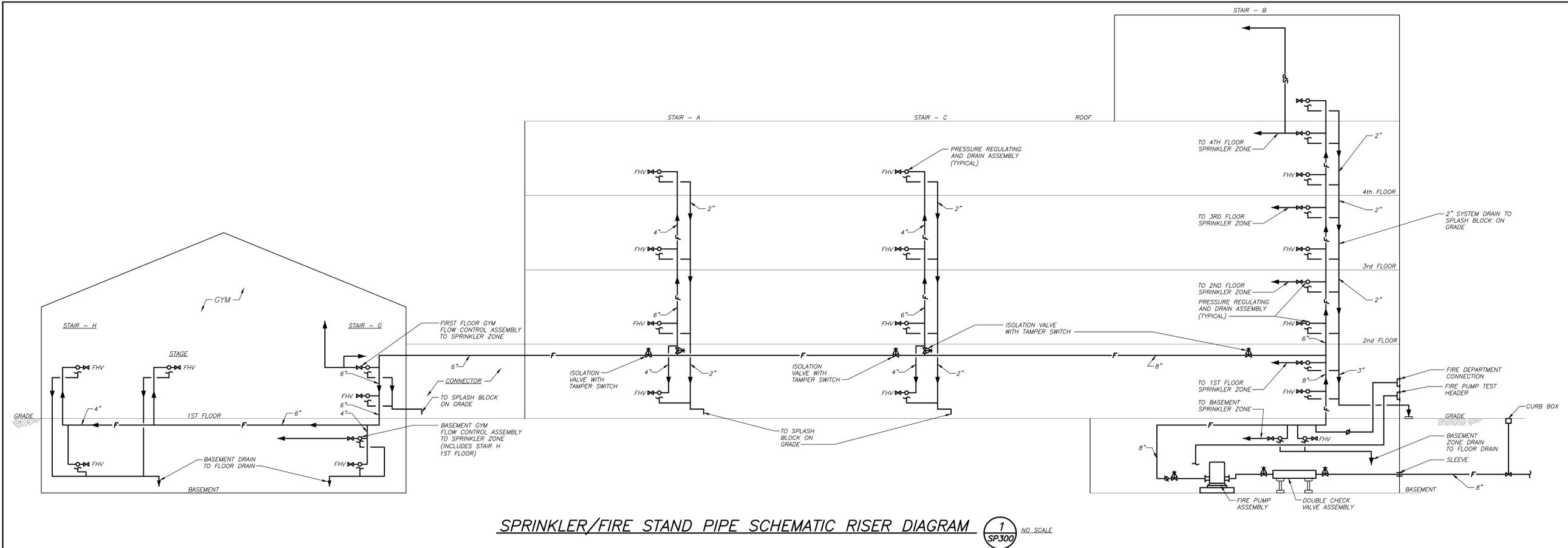
Community Wing Basement - Add Alt - Gym Basement Fit-Out Plan

Job No.	2019-1026	Date	11/03/21
Scale	AS NOTED	Drawn / Checked	BGA / BGA

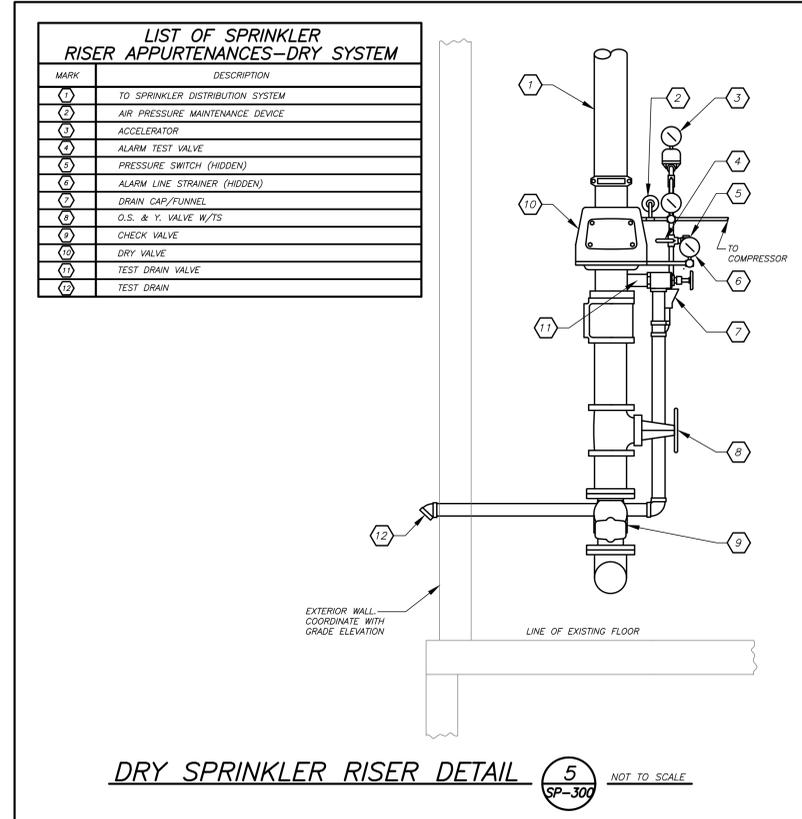
Sheet Number

SP213

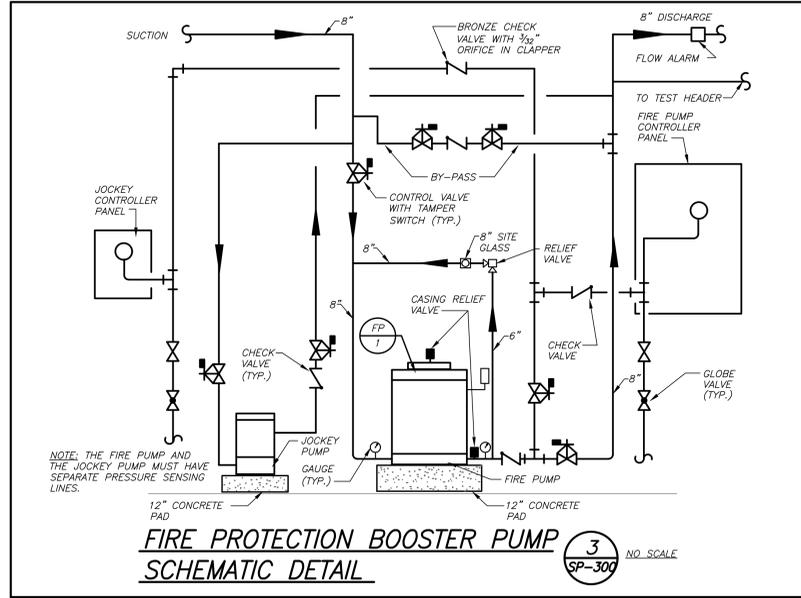
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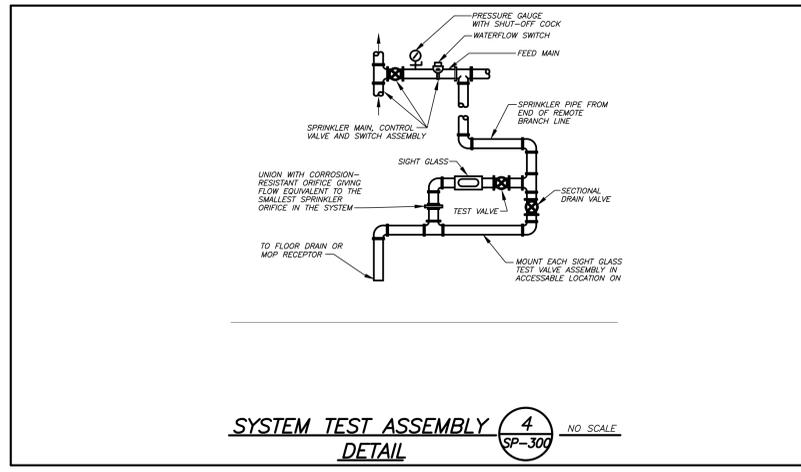
SPRINKLER/FIRE STAND PIPE SCHEMATIC RISER DIAGRAM 1 NO. SCALE
 SP-300



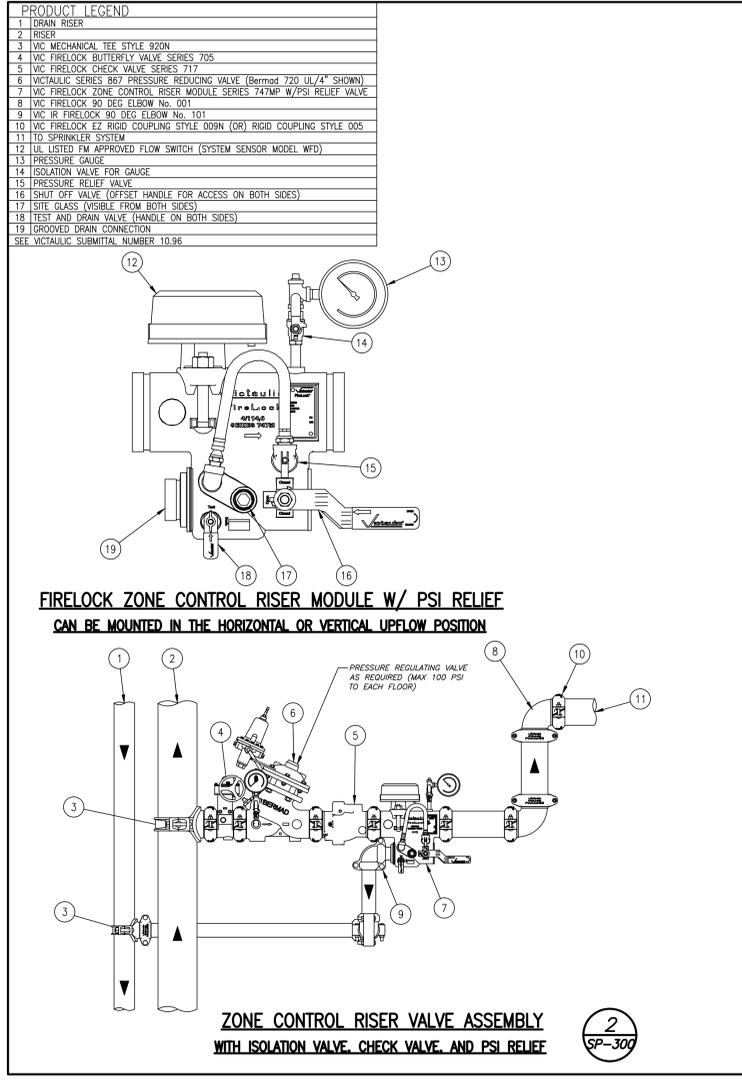
DRY SPRINKLER RISER DETAIL 5 NOT TO SCALE
 SP-300



FIRE PROTECTION BOOSTER PUMP SCHEMATIC DETAIL 3 NO. SCALE
 SP-300

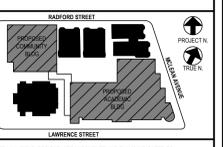


SYSTEM TEST ASSEMBLY DETAIL 4 NO. SCALE
 SP-300



FIRELOCK ZONE CONTROL RISER MODULE W/ PSI RELIEF CAN BE MOUNTED IN THE HORIZONTAL OR VERTICAL UPFLOW POSITION

ZONE CONTROL RISER VALVE ASSEMBLY WITH ISOLATION VALVE, CHECK VALVE, AND PSI RELIEF 2 NO. SCALE
 SP-300



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2	12/16/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

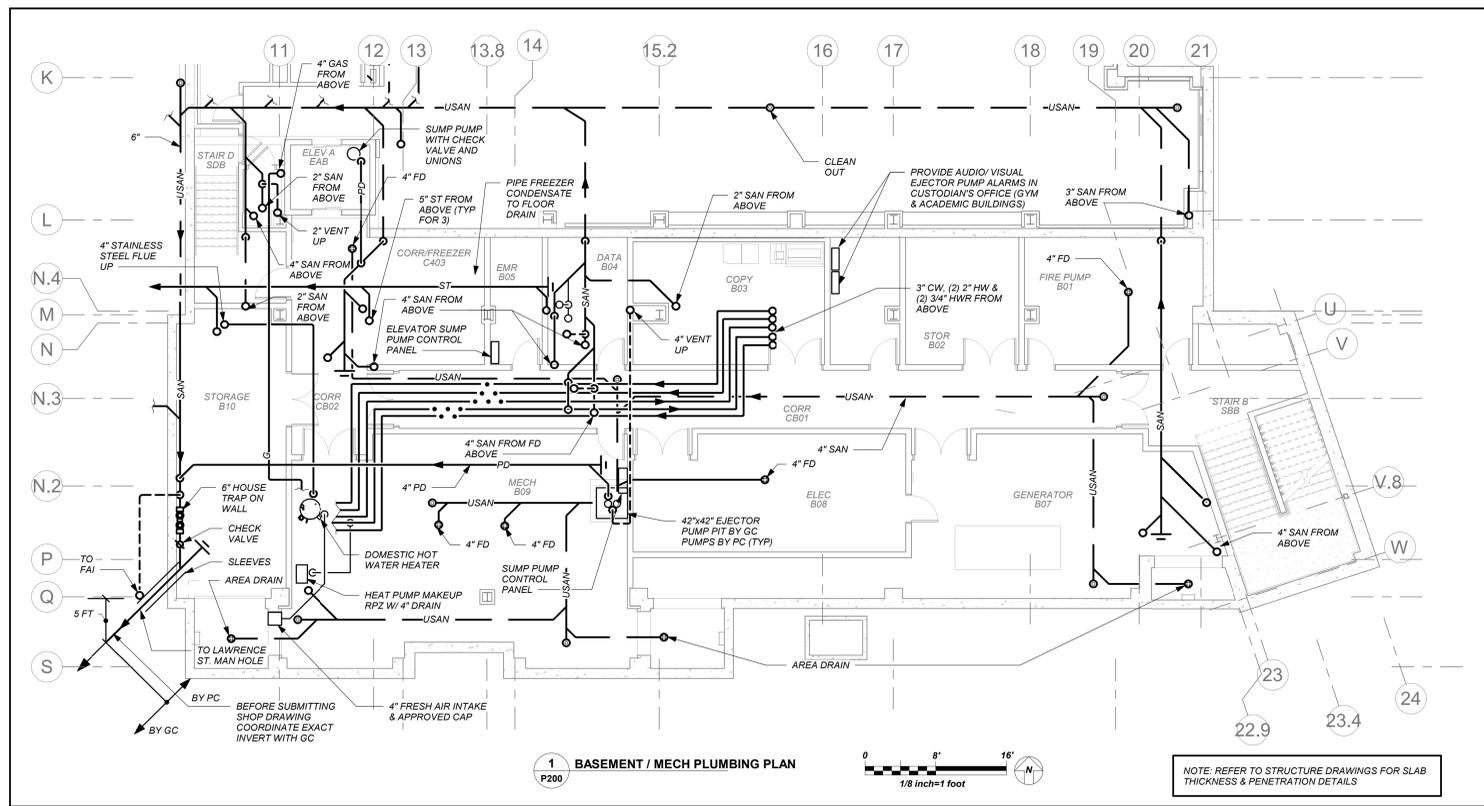
Sheet Title
BUILDING SPRINKLER / FIRE STANDPIPE RISER DIAGRAM AND DETAILS

Job No.	Date
2019-1026	11/18/20

Scale	Drawn / Checked
AS NOTED	BGA/BGA

Sheet Number
SP300

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LEGEND

	NEW PIPING, FIXTURES, ETC.
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	PLUMBING VENT PIPING
	SANITARY PIPING
	SANITARY PIPING (UNDERGROUND)
	PUMP DISCHARGE PIPING
	UNDERGROUND PUMP DISCHARGE PIPING
	STORM PIPING
	STORM PIPING (UNDERGROUND)
	UNINTERRUPTIBLE GAS PIPING
	UNINTERRUPTIBLE GAS PIPING (UNDERGROUND)
	WATER SERVICE PIPING
	FIRE PROTECTION PIPING
	SPRINKLER PIPING
	SPRINKLER HEAD
	FLOW DIRECTION WITHIN PIPE
	CLEANOUT
	CLEANOUT DECK PLATE
	SHUT-OFF VALVE
	COMBINATION BALANCING & SHUT-OFF VALVE
	OS & Y VALVE
	OS & Y VALVE WITH TAMPER SWITCH
	CHECK VALVE
	GAS SHUT OFF COCK
	SIDEWALL SPRINKLER HEAD
	PIPE CONNS. (BOTTOM, TOP 45 OR 90, PIPE UP)
	PLUMBING FIXTURE IDENTIFICATION
	BACKFLOW PREVENTER APPURTENANCE IDENTIFICATION
	PLUMBING CONTRACTOR
	GENERAL CONTRACTOR
	HVAC CONTRACTOR
	VENT THRU ROOF
	FRESH AIR INTAKE
	FLOOR DRAIN
	PRESSURE REDUCING VALVE
	CIRCULATOR PUMP IDENTIFICATION
	SUMP PUMP IDENTIFICATION
	HOT WATER HEATER IDENTIFICATION
	POINT OF CONNECTION
	DRAWING, DETAIL, SECTION NUMBER
	SECTION IDENTIFICATION

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 121 McLean Avenue
 Yonkers, NY 10705

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 66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS

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 CONSULTING ENGINEERS
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 914.328.0099 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM

1 BASEMENT / MECH PLUMBING PLAN
 P200

NOTE: REFER TO STRUCTURE DRAWINGS FOR SLAB THICKNESS & PENETRATION DETAILS

LIST OF BACKFLOW PREVENTER APPURTENANCES

MARK	DESCRIPTION
1	RESILIENT SEATED GATE VALVE
2	TAMPER PROOF RESILIENT SEATED GATE VALVE WITH TAMPER SWITCH
3	STRAINER
4	4" RPZ BACKFLOW PREVENTER - WATTS SERIES 909
5	WATER METER (PER WATER DEPARTMENT)
6	2" TEST OUTLET VALVE
7	PRESSURE REDUCING VALVE
8	AIR GAP (JR SMITH 3955)
9	FUNNEL (JR SMITH 3811)
10	8" DOUBLE CHECK DETECTOR ASSEMBLY-WATTS SERIES 709 DCDA

GENERAL NOTES - BACKFLOW PREVENTER:

- LOCATION OF BACKFLOW DEVICES SHALL HAVE ADEQUATE HEAT AND LIGHT.
- BACKFLOW DEVICES SHALL BE PROTECTED FROM FLOODING.
- BACKFLOW DEVICES AND WATER METER SHALL BE TESTED AFTER INSTALLATION.
- OWNER SHALL ARRANGE FOR BACKFLOW DEVICES TO BE TESTED ANNUALLY BY A CERTIFIED TESTER.
- ANY REVISIONS OR ALTERATION OF THESE PLANS WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE SIGNING ENGINEER IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

BACKFLOW PREVENTER FILING REQUIREMENTS

A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A LICENCED ENGINEER TO FILE ALL APPLICATIONS, PERMITS AND FILING FEES WITH THE AUTHORITIES HAVING JURISDICTION OVER THE WORK.

B. THE FOLLOWING LIST SERVES AS THE MINIMUM FILING REQUIREMENTS. FAILURE TO LIST ANY ITEM DOES NOT RELIEVE THE CONTRACTOR FROM FULFILLING THAT REQUIREMENT.

- CERTIFICATE OF RESOLUTION OF LETTER OF AUTHORIZATION FROM OWNER/USER TO AUTHORIZE LICENCED PROFESSIONAL TO EXECUTE FILING.
- PREPARE AND SUBMIT FORM DOH-347 WITH PLANS, PROFESSIONAL ENGINEERS REPORT AND SPECIFICATIONS WITH ENGINEER'S SEAL, FILE WITH HEALTH DEPARTMENT AND WATER DEPARTMENT.
- FILING FEES, PER DEVCE.
- EVIDENCE OF CONFORMANCE TO NEW YORK STATE SANITARY CODE, PART 5 AND CHAPTER 873 OF THE LAWS OF WESTCHESTER COUNTY.

PLUMBING FIXTURE SCHEDULE

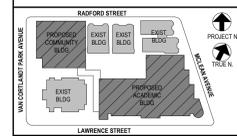
MARK	DESCRIPTION	BRANCH SIZE			
		W	V	F	C
A1	WALL MOUNTED WATER CLOSET (FLUSH VALVE)	4"	2"	-	1"
A2	WALL MOUNTED WATER CLOSET (FLUSH VALVE) (HANDICAPPED)	4"	2"	-	1"
A3	FLOOR MOUNTED WATER CLOSET (FLUSH VALVE) (HANDICAPPED)	4"	2"	-	1"
A4	FLOOR MOUNTED CHILDS WATER CLOSET (FLUSH VALVE)	4"	2"	-	1"
B1	SINGLE SINK UNIT (HANDICAPPED)	1-1/2"	1-1/2"	1/2"	1/2"
B2	DOUBLE SINK UNIT (HANDICAPPED)	1-1/2"	1-1/2"	1/2"	1/2"
B3	TRIPPLE SINK UNIT (HANDICAPPED)	1-1/2"	1-1/2"	1/2"	1/2"
B4	COUNTERTOP CLASSROOM SINK (HANDICAPPED)	1-1/2"	1-1/2"	1/2"	1/2"
B5	MAKER SPACE SINK	1-1/2"	1-1/2"	1/2"	1/2"
B6	HEALTH SUITE SINK (HANDICAPPED)	1-1/2"	1-1/2"	1/2"	1/2"
B7	ART SINK (SINGLE)	1-1/2"	1-1/2"	1/2"	1/2"
B8	FACULTY SINK (HANDICAPPED)	1-1/2"	1-1/2"	1/2"	1/2"
B9	MUSIC ROOM SINK	1-1/2"	1-1/2"	1/2"	1/2"
B10	PRE-K/ K SINK	1-1/2"	1-1/2"	1/2"	1/2"
C	URINAL - WALL MOUNTED	3"	2"	-	1/2"
D1	SINGLE WATER COOLER (HANDICAPPED) W/ BOTTLE FILL	2"	1-1/2"	-	1/2"
D2	DOUBLE WATER COOLER (HANDICAPPED) W/ BOTTLE FILL	2"	1-1/2"	-	1/2"
D3	DOUBLE BOTTLE FILLING STATION	2"	1-1/2"	-	1/2"
E	MOP RECEPTOR	3"	3"	3/4"	3/4"
F	SHOWER	2"	1-1/2"	1/2"	1/2"
G1	LABORATORY COUNTER MOUNTED SINK	2"	1-1/2"	-	1/2"
G2	LABORATORY COUNTER MOUNTED SINK (TEACHERS)	2"	1-1/2"	1/2"	1/2"
H	EYE WASH	2"	1-1/2"	1/2"	1/2"

BUILDING STRUCTURE FIREPROOFING:

THE BUILDING STRUCTURE WILL BE PROTECTED BY 2" FIREPROOFING THROUGHOUT. THIS CONTRACTOR SHALL ISSUE COORDINATION DRAWINGS ACCORDING TO THE STRICT SCHEDULE OUTLINED IN THE "FRONT END" DOCUMENTS. ALL HANGERS FOR PIPING, CONDUIT, DUCTWORK, EQUIPMENT, ETC. MUST BE IN PLACE BEFORE FIREPROOFING TAKES PLACE. THE INSTALLATION OF HANGERS AFTER THE FACT THAT REQUIRES THE RE-APPLICATION OF FIREPROOFING WILL BE AT THE EXPENSE OF THIS CONTRACTOR.

BASEMENT WATERPROOFING:

REFER TO STRUCTURAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR SLAB/ WALL THICKNESS AND PENETRATION DETAILS. COORDINATE WITH G.C.



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No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS&D
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Legend, Schedule, Notes and Basement Floor Plumbing Plan

Job No. 2019-1026 Date 11/18/20
 Scale AS NOTED Drawn / Checked BGA/ BGA
 Sheet Number

P200

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NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

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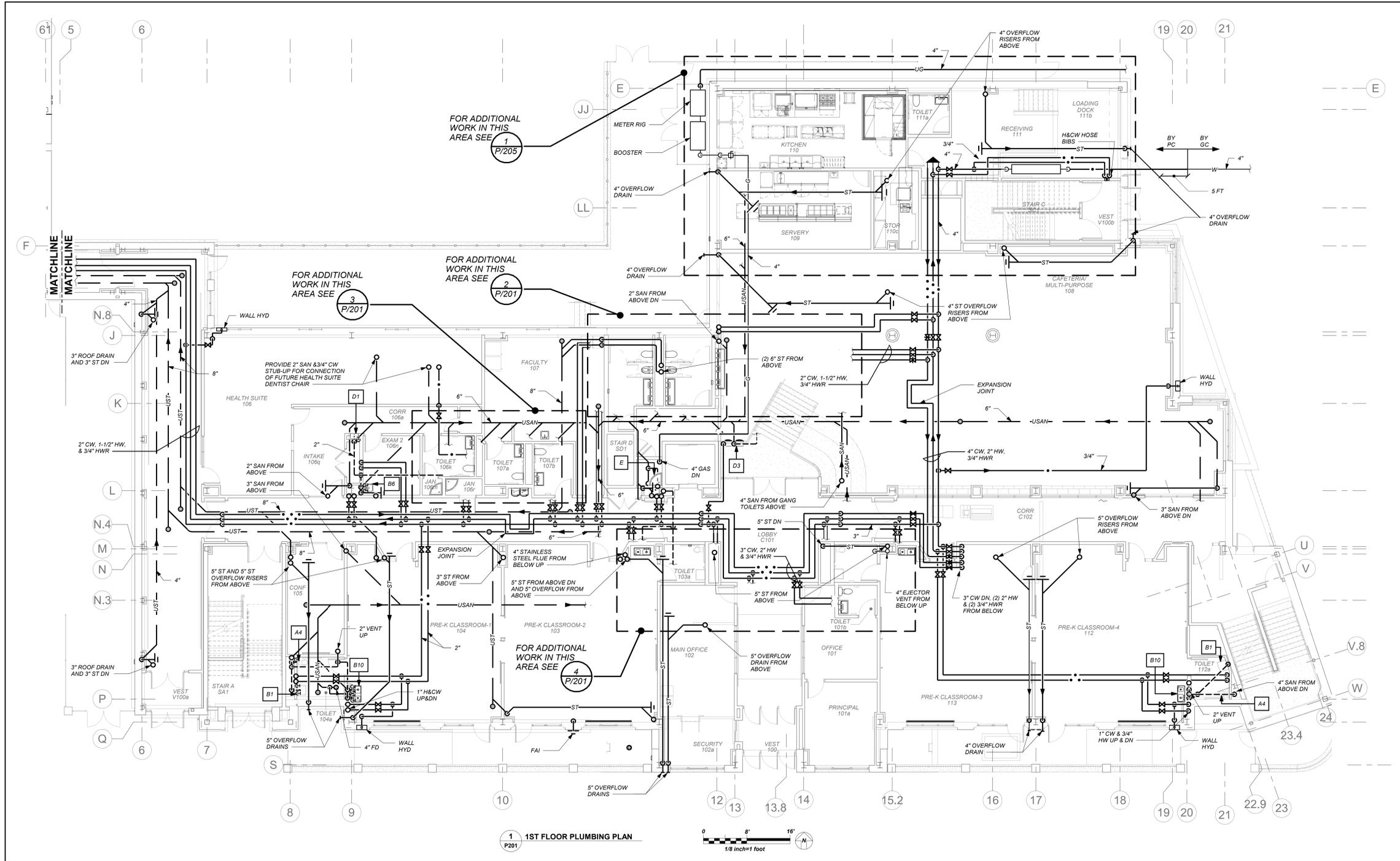
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66-23-00-01-0-346-001

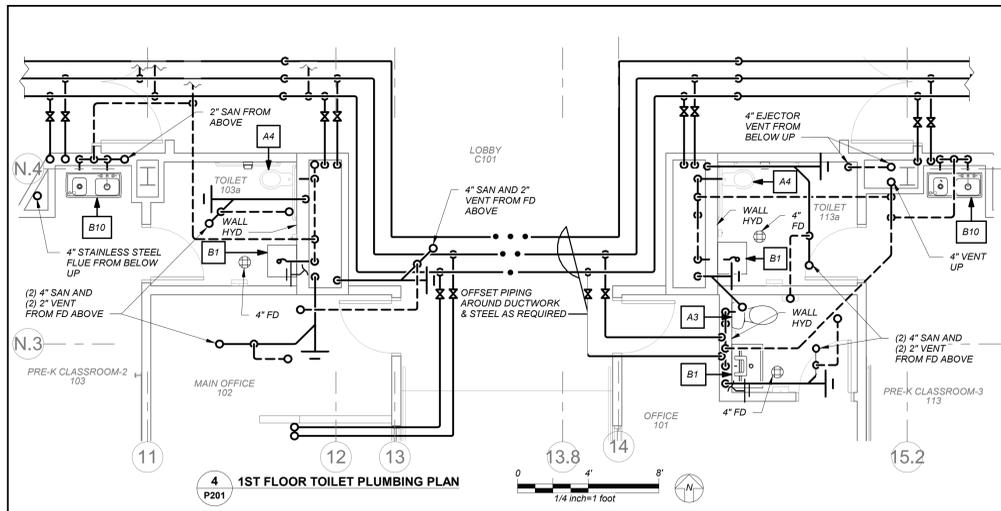
CONSTRUCTION DOCUMENTS



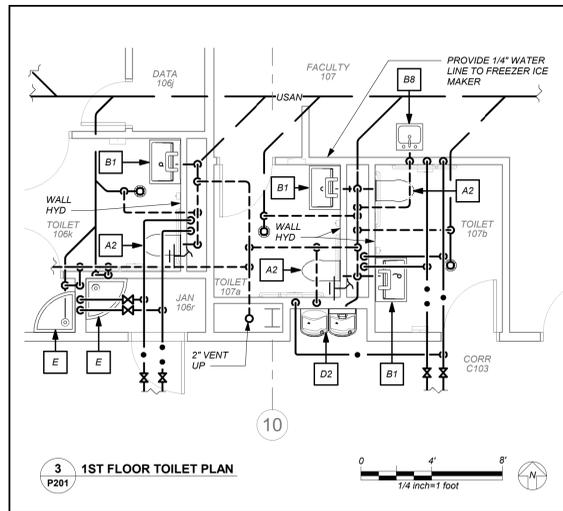
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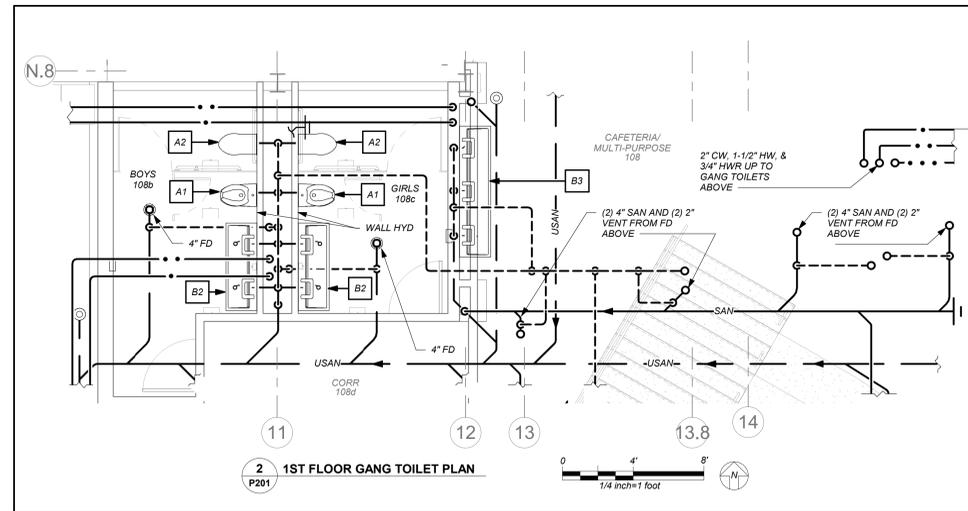
1 1ST FLOOR PLUMBING PLAN
P201



4 1ST FLOOR TOILET PLUMBING PLAN
P201



3 1ST FLOOR TOILET PLAN
P201



2 1ST FLOOR GANG TOILET PLAN
P201



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1	08/31/2020	SCHEMATIC DESIGN

Sheet Title
1st Floor Plan

Job No. 2019-1026 Date 11/18/20

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P201

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

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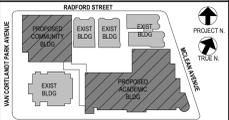
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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

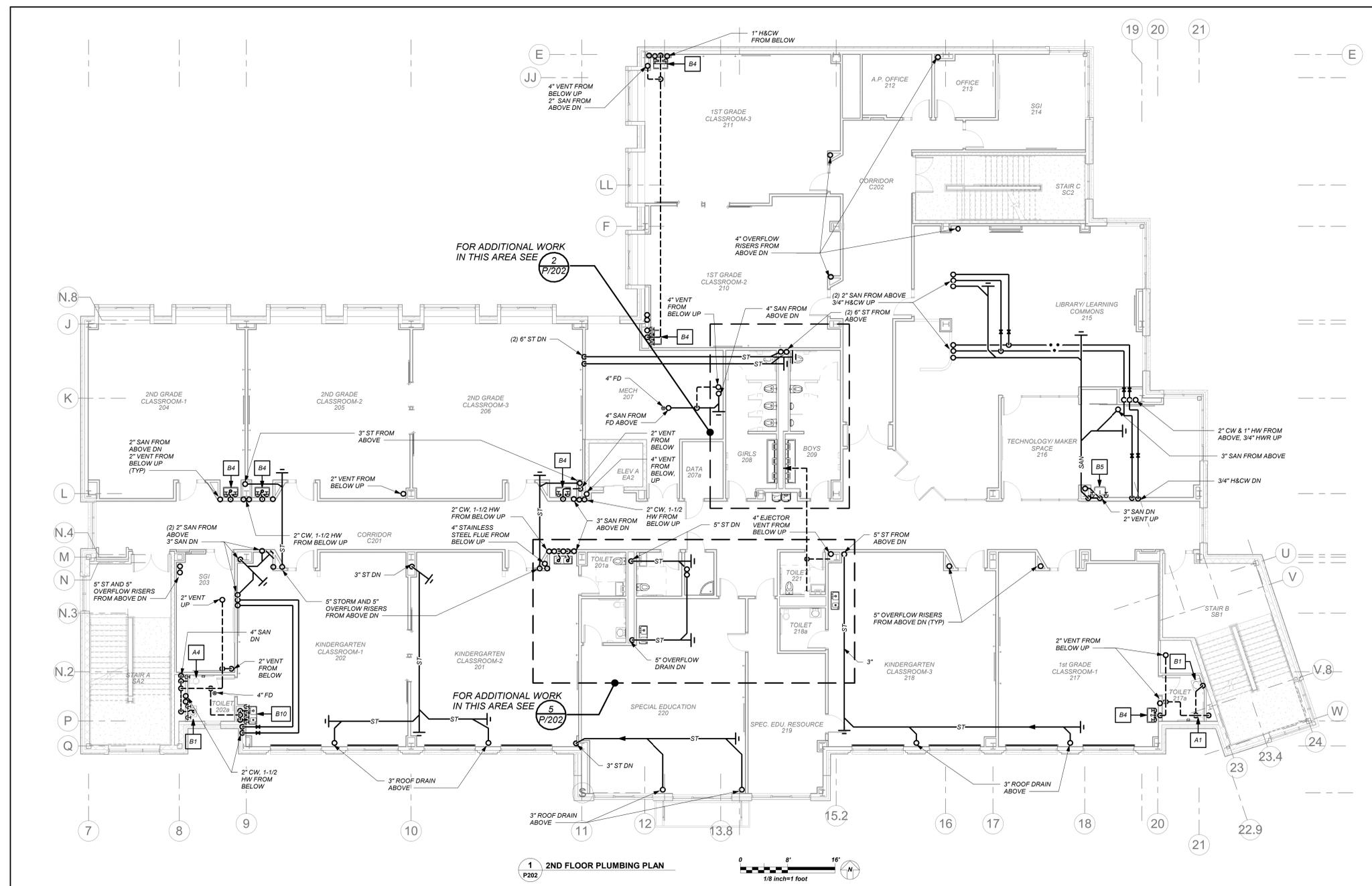
2nd Floor Plan

Job No. 2019-1026 Date 11/16/20

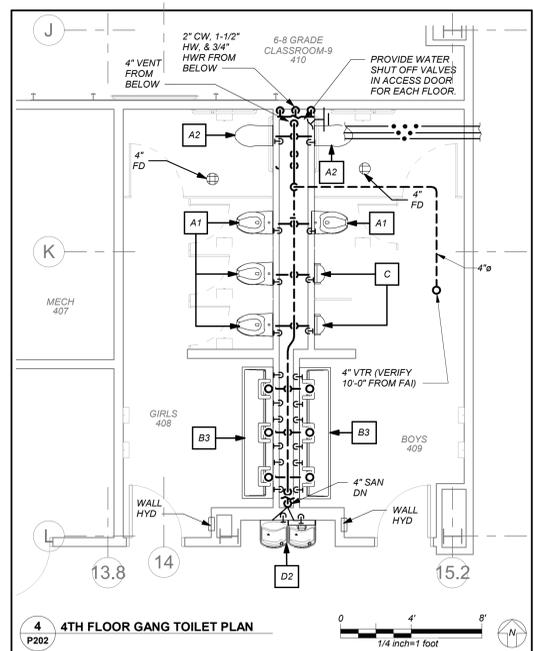
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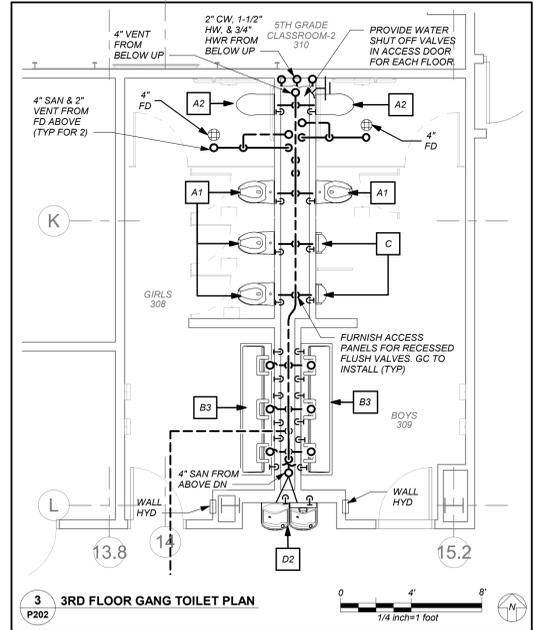
P202



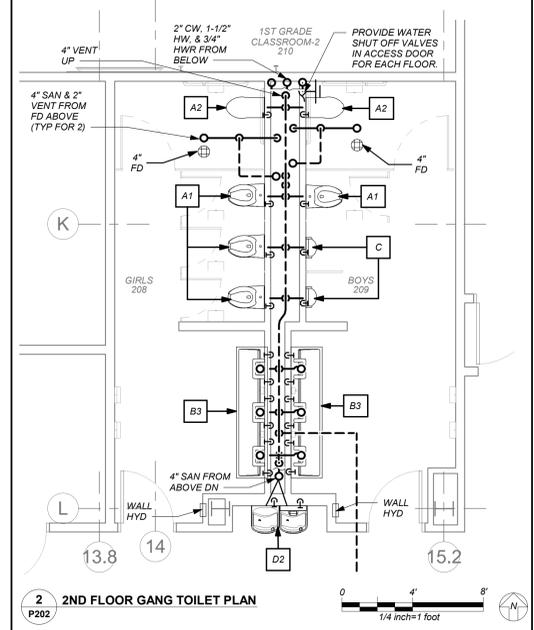
1 2ND FLOOR PLUMBING PLAN
P202
1/8 inch=1 foot



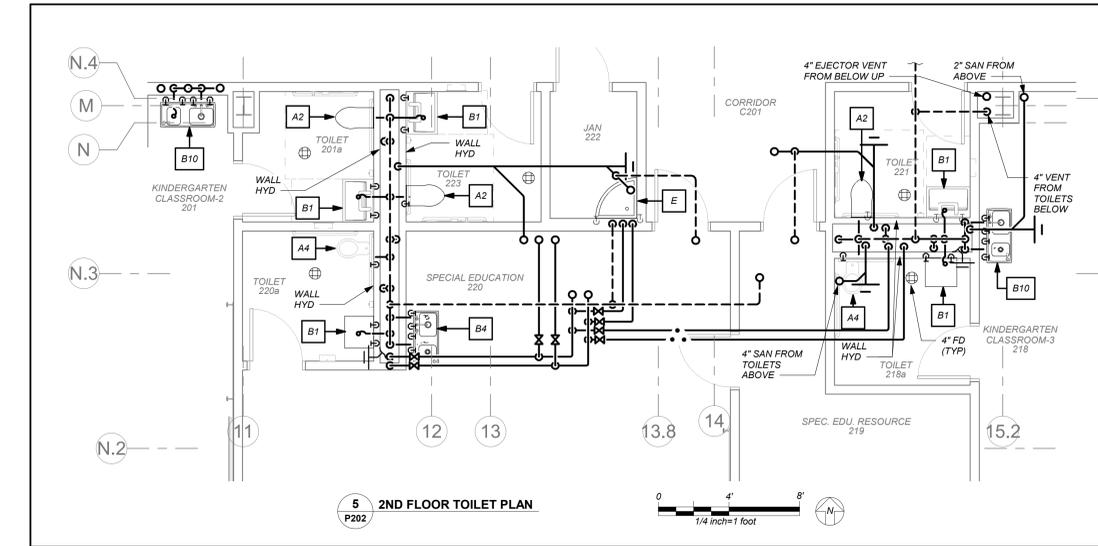
4 4TH FLOOR GANG TOILET PLAN
P202
1/4 inch=1 foot



3 3RD FLOOR GANG TOILET PLAN
P202
1/4 inch=1 foot



2 2ND FLOOR GANG TOILET PLAN
P202
1/4 inch=1 foot



5 2ND FLOOR TOILET PLAN
P202
1/4 inch=1 foot

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Yonkers, NY 10705



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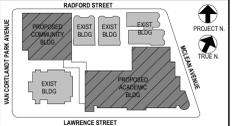
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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

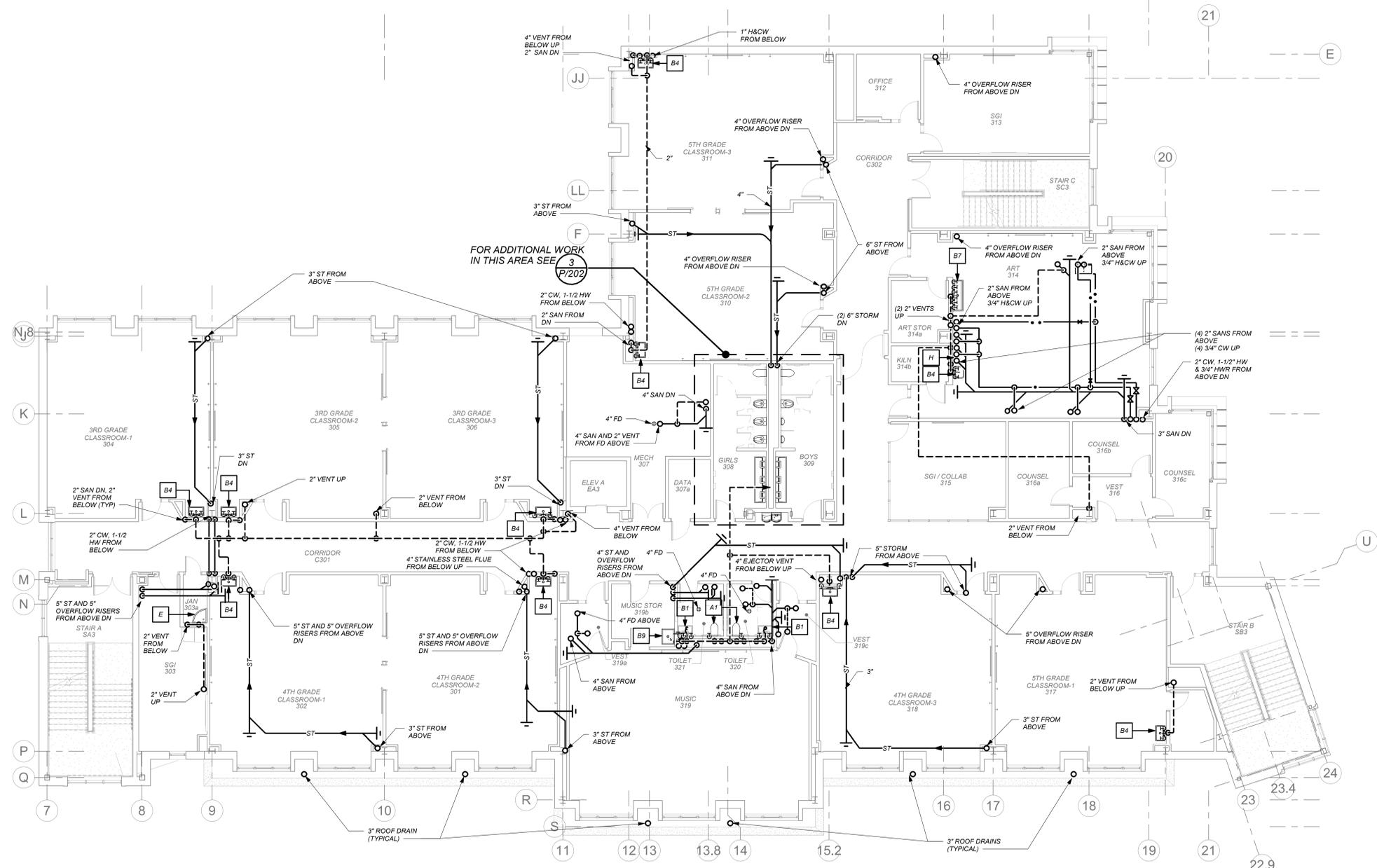
3rd Floor Plan

Job No. 2019-1026 Date 11/18/20

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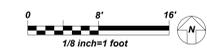
Sheet Number

P203



FOR ADDITIONAL WORK IN THIS AREA SEE P/202

1 3RD FLOOR PLUMBING PLAN
P203



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NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

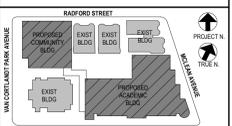
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MARK	DESCRIPTION
1	RESILIENT SEATED GATE VALVE
2	TAMPER PROOF RESILIENT SEATED GATE VALVE WITH TAMPER SWITCH
3	STRAINER
4	4" RPZ BACKFLOW PREVENTER - WATTS SERIES LF909
5	WATER METER (PER WATER DEPARTMENT)
6	2" TEST OUTLET VALVE
7	PRESSURE REDUCING VALVE
8	12" FUNNEL (JR SMITH 3811)
9	8" DOUBLE CHECK DETECTOR ASSEMBLY-WATTS SERIES LF709 DCDA

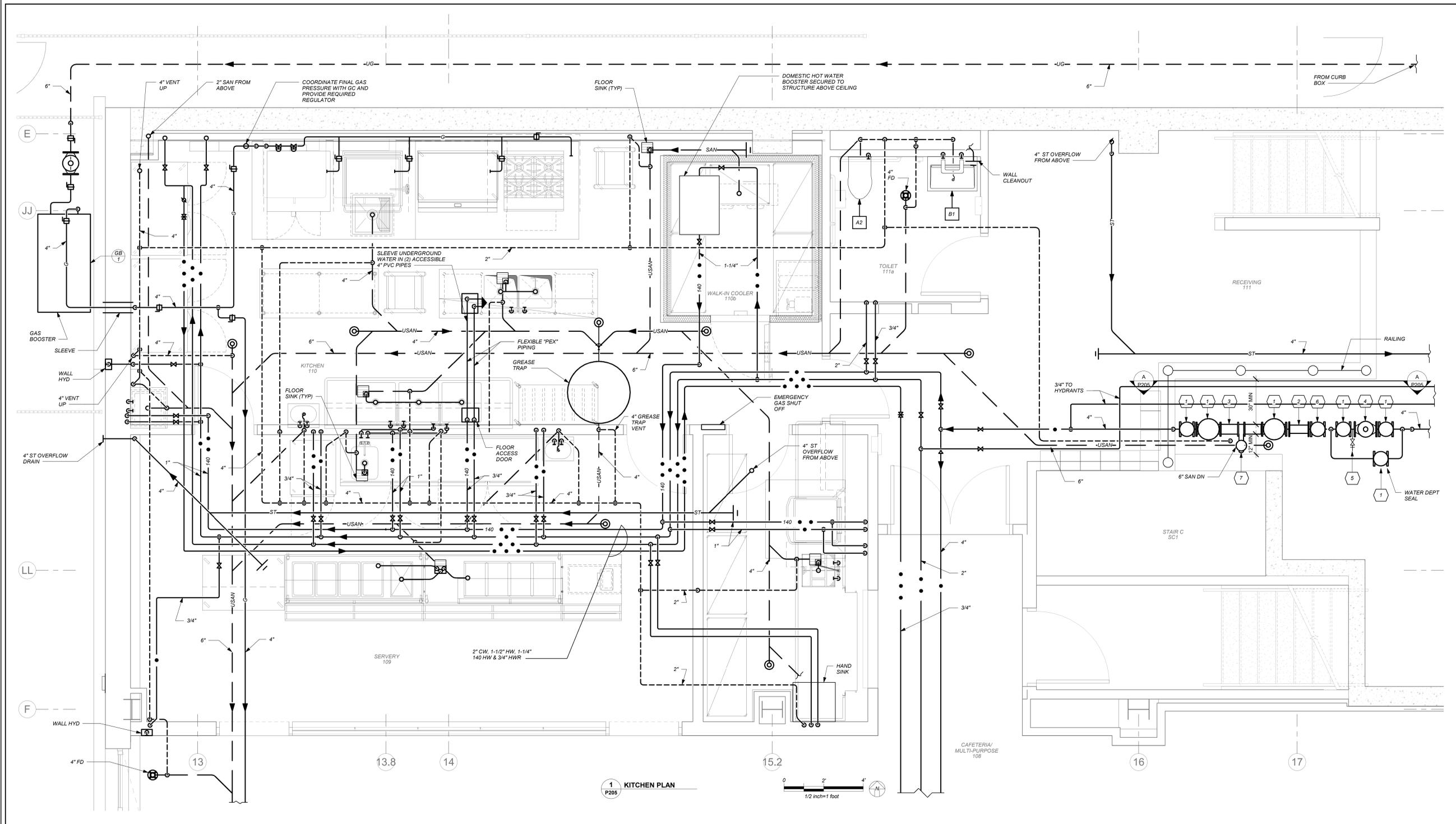
No.	Date	Issue
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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title
1st Floor Kitchen Plan

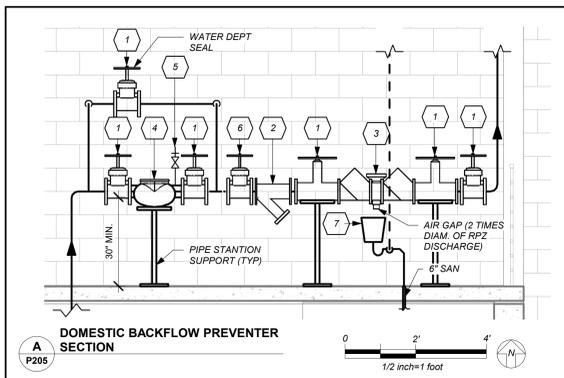
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Sheet Number

P205



1 KITCHEN PLAN
P205



A DOMESTIC BACKFLOW PREVENTER SECTION
P205

- GENERAL NOTES:**
1. LOCATION OF BACKFLOW DEVICES SHALL HAVE ADEQUATE HEAT AND LIGHT.
 2. BACKFLOW DEVICES SHALL BE PROTECTED FROM FLOODING.
 3. BACKFLOW DEVICES AND WATER METER SHALL BE TESTED AFTER INSTALLATION.
 4. OWNER SHALL ARRANGE FOR BACKFLOW DEVICES TO BE TESTED ANNUALLY BY A CERTIFIED TESTER.
 5. ANY REVISIONS OR ALTERATION OF THESE PLANS WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE SIGNING ENGINEER IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW.

- BACKFLOW PREVENTER FILING REQUIREMENTS**
- A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A LICENSED ENGINEER TO FILE ALL APPLICATIONS, PERMITS AND FILING FEES WITH THE AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- B. THE FOLLOWING LIST SERVES AS THE MINIMUM FILING REQUIREMENTS. FAILURE TO LIST ANY ITEM DOES NOT RELIEVE THE CONTRACTOR FROM FULFILLING THAT REQUIREMENT.
1. CERTIFICATE OF RESOLUTION OF LETTER OF AUTHORIZATION FROM OWNER/USER TO AUTHORIZE LICENSED PROFESSIONAL TO EXECUTE FILING.
 2. PREPARE AND SUBMIT FORM DOH-347 WITH PLANS, PROFESSIONAL ENGINEERS REPORT AND SPECIFICATIONS WITH ENGINEER'S SEAL. FILE WITH HEALTH DEPARTMENT AND WATER DEPARTMENT.
 3. FILING FEES, PER DEVICE.
 4. EVIDENCE OF CONFORMANCE TO NEW YORK STATE SANITARY CODE, PART 5 AND CHAPTER 873 OF THE LAWS OF WESTCHESTER COUNTY.

SIMPLEX PACKAGED GAS BOOSTER SYSTEM SCHEDULE

MARK	LOCATION	BOOSTER INFORMATION AND PERFORMANCE			BOOSTER MOTOR INFORMATION				
		MODEL + FEATURES	MAX FLOW CFH	ADDED BOOST INCHES WC	RPM	HP	VOLTS	PHASE	CYCLES
GB 1	OUTDOOR	E101-PHC-S-NYC-PCFM-REG-GLD-TRNS- COMPLETE WITH PRESSURE COMPENSATED FLOW MODULE, MODE R CONTROLS, OUTLET PRESSURE REGULATOR, AUTO ON-OFF BASE ON BUILDING DEMAND, TOTAL VENTLESS SYSTEM 2" INLET/OUTLET, OUTDOOR STEEL GAS LEAK DETECTION WITH SAFETY SHUT OFF VALVE, TRANSCLOSURE WITH LOCKING DOORS, ALL PER WRITTEN SPECIFICATIONS	1,100	10	3450	1/4	120	1	60

REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL PLUMBING WORK UNDER THIS CONTRACT.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

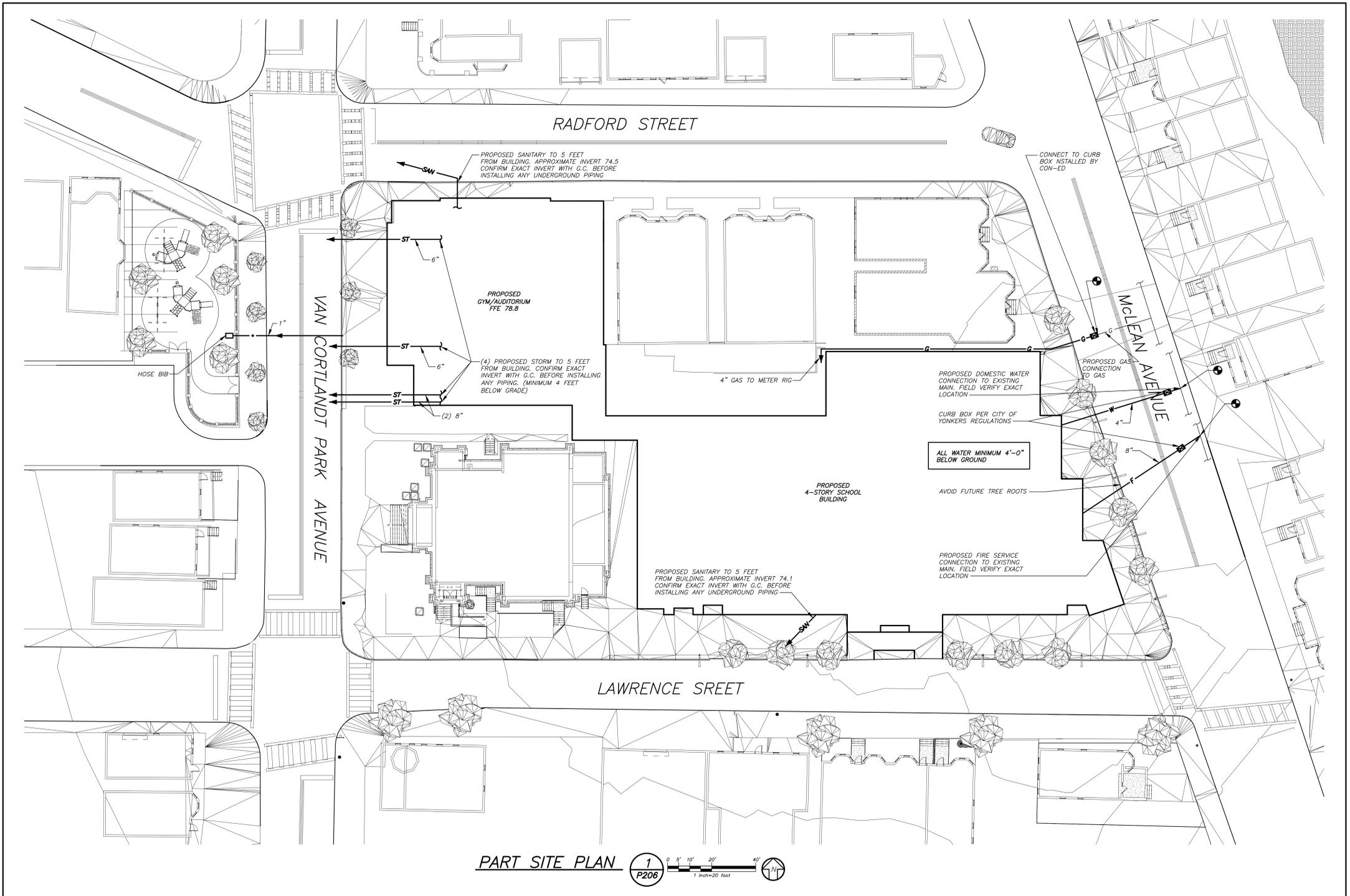
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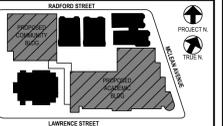
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 914.328.0960 GENERAL@BGAE-ENG.COM WWW.BGAE-ENG.COM



PART SITE PLAN 1 P206

THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS FROM THE CITY OF YONKERS. INSTALL GAS AND WATER IN ACCORDANCE WITH ALL UTILITY COMPANY AND CITY REQUIREMENTS AND REGULATIONS. SEE CON-ED YELLOW BOOK. SEE CITY OF YONKERS "ENGINEERING FORMS" FOR METER, TAP, CONNECTIONS AND MISCELLANEOUS, ETC. FOR MORE INFORMATION. SEE FRONT END SPECIFICATION FOR SEPARATION OF CONTRACTOR'S RESPONSIBILITIES.



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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No.		Date	Issue
Sheet Title		SITE PLAN	

Job No.	Date
2019-1026	11/18/20
Scale	Drawn / Checked
AS NOTED	BGA/BGA
Sheet Number	

P206

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YONKERS JOINT SCHOOL CONSTRUCTION BOARD
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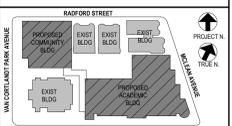
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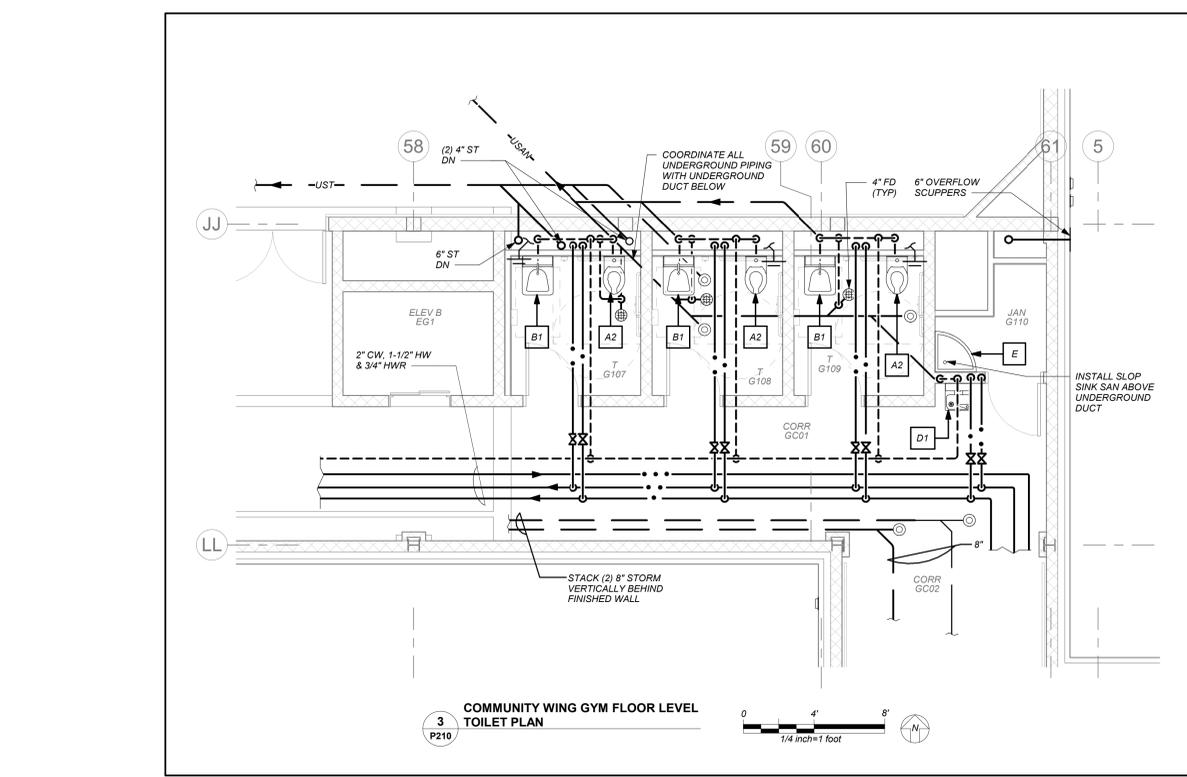
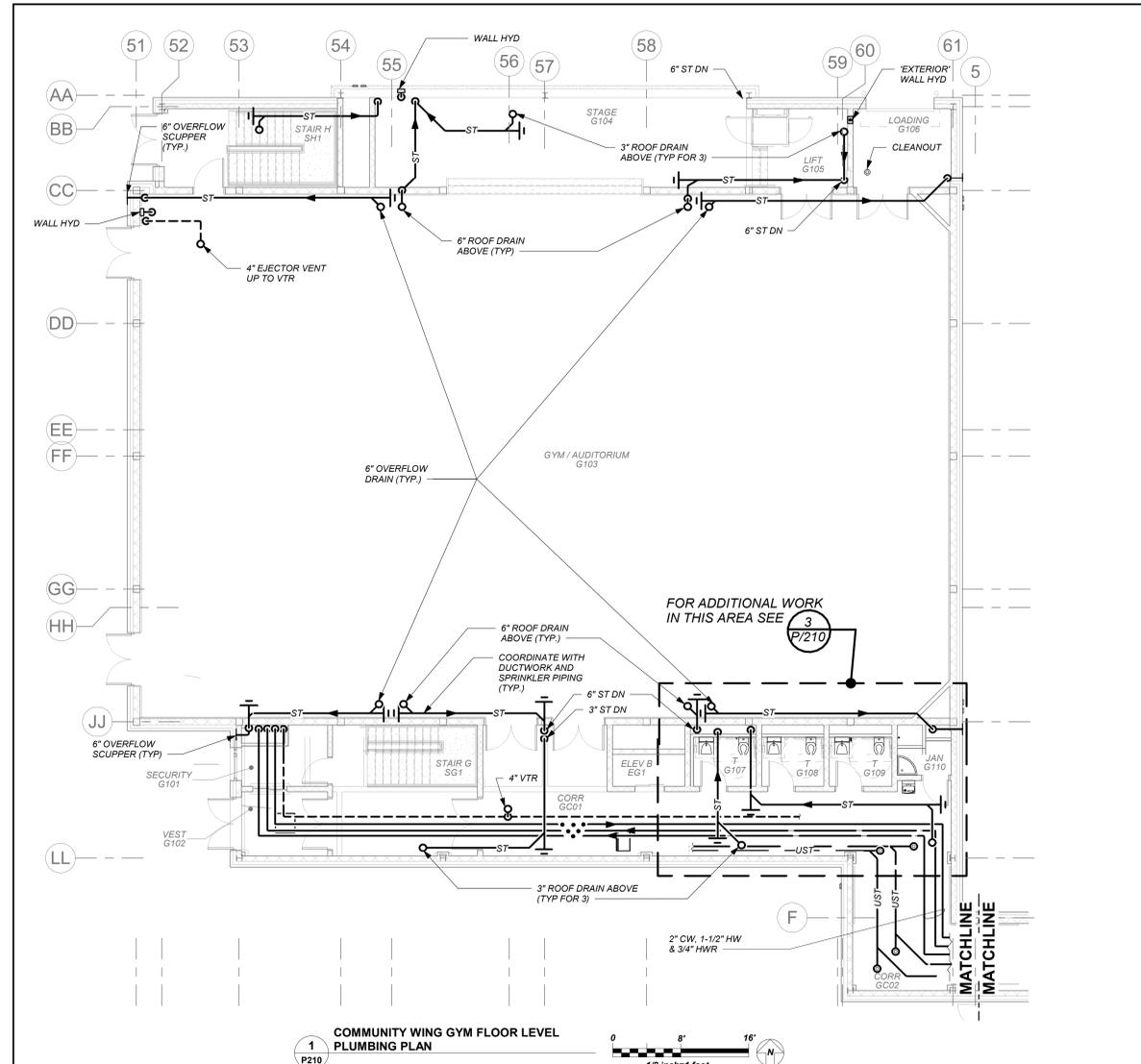
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Community Wing Gym Floor Plans

Job No.	2019-1026	Date	11/18/20
Scale	AS NOTED	Drawn / Checked	BGA /BGA
Sheet Number	P210		



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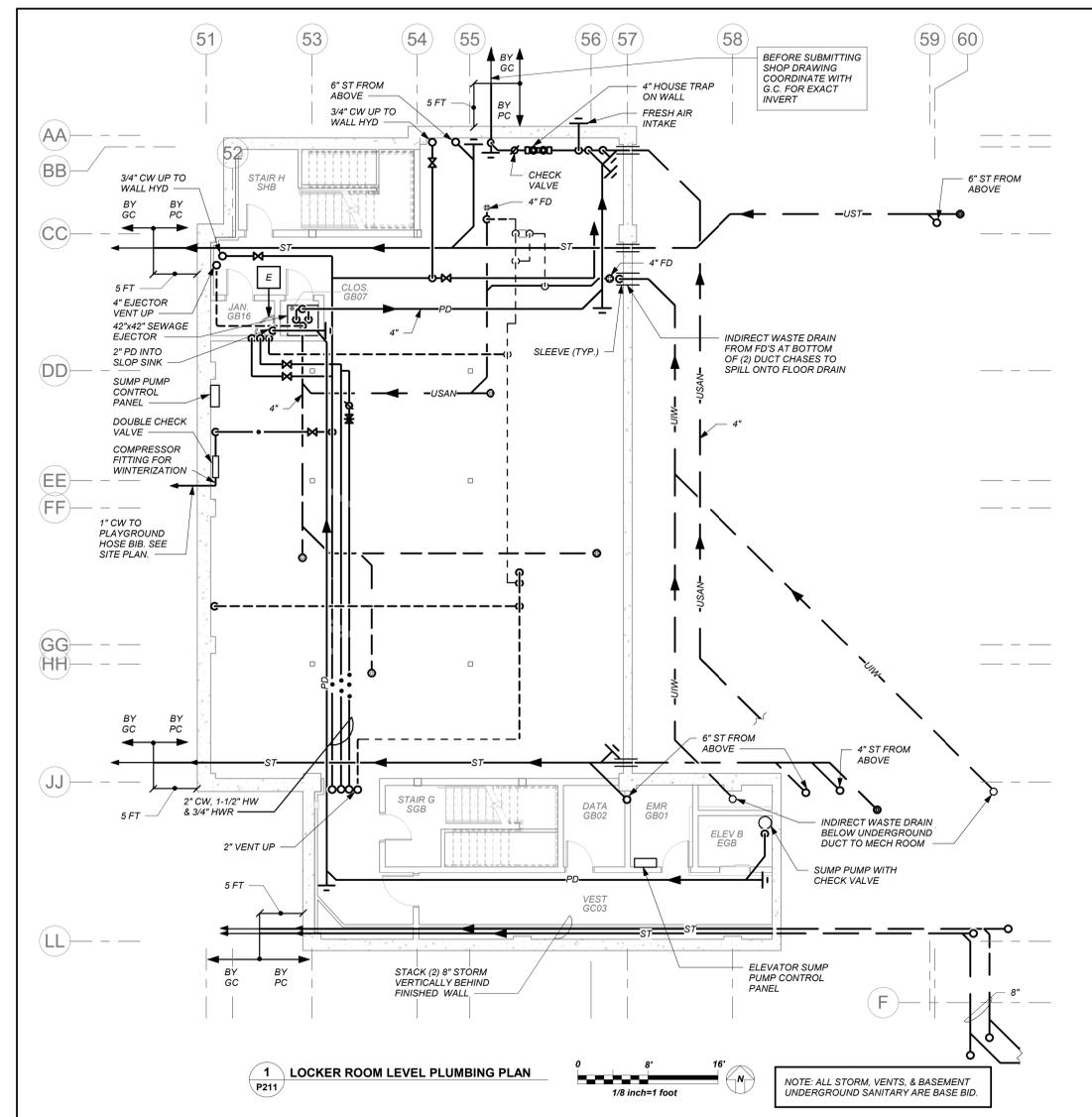
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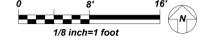
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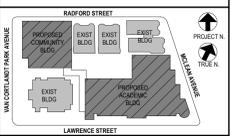
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1 LOCKER ROOM LEVEL PLUMBING PLAN
P211



NOTE: ALL STORM, VENTS, & BASEMENT UNDERGROUND SANITARY ARE BASE BID.



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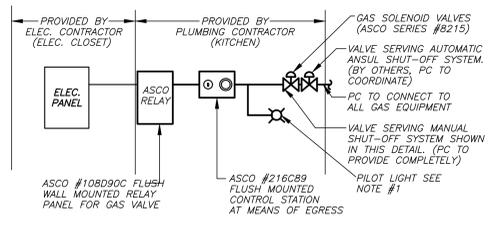
No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Community Wing Basement Floor Plan

Job No.	2019-1026	Date	10/20/21
Scale	AS NOTED	Drawn / Checked	BGA /BGA

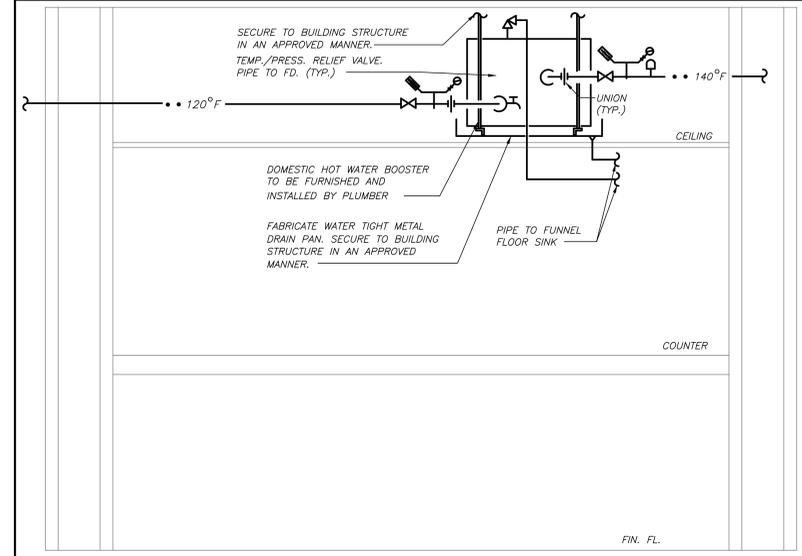
Sheet Number
P211

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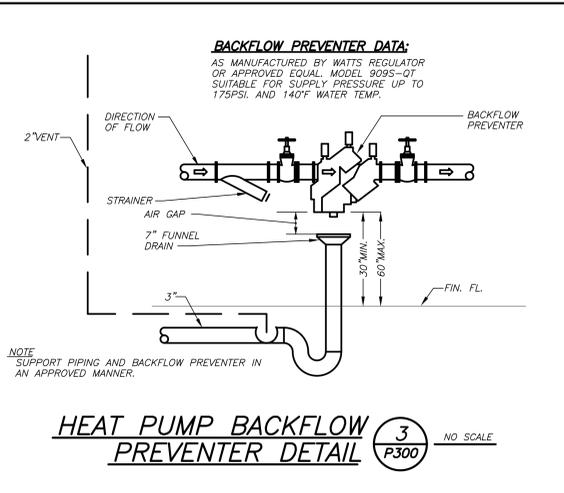


- NOTES:**
- PILOT LIGHT SHALL BE WALL MOUNTED ADJACENT TO CONTROL STATION. IT SHALL BE SIMILAR TO ABB #B2K-KLRL1 AND BLUE IN COLOR. PROVIDE STAINLESS STEEL COVER PLATE WITH PERMANENT TYPE-WRITTEN LABEL STATING "KITCHEN GAS".
 - OPERATION OF CONTROL STATION SHALL BE AS FOLLOWS:
 - TURNING OF KEY SWITCH IN ONE DIRECTION SHALL ENERGIZE POWER TO GAS VALVE IN KITCHEN AND ILLUMINATE REMOTE WALL MOUNTED PILOT LIGHT. TURNING OF SWITCH IN OPPOSITE DIRECTION SHALL DE-ENERGIZE POWER AND CLOSE THE GAS VALVE AND TURN PILOT LIGHT OFF.
 - OPERATION OF PUSH BUTTON AT CONTROL STATION SHALL DE-ENERGIZE POWER AND CLOSE GAS VALVE AND TURN PILOT LIGHT OFF. POWER TO VALVE SHALL NOT BE RESTORED UNTIL KEY SWITCH IS ACTIVATED AGAIN.
- PROVIDE ALL NECESSARY RELAYS, CONTACTS WIRING, ETC. FOR THE COMPLETE OPERATION AS LISTED ABOVE.
- 3. THIS ARRANGEMENT PROVIDES ADDITIONAL SAFETY IN THE EVENT OF A FIRE. AUTOMATIC GAS SHUT OFF (BY OTHERS) IS ALSO REQUIRED WHEN HOOD FIRE SUPPRESSION SYSTEM IS ACTIVATED.**

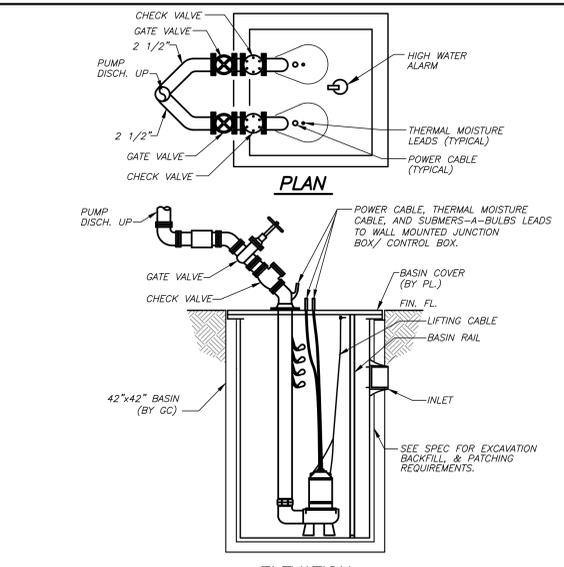
KITCHEN GAS VALVE WIRING AND CONTROL DETAIL (6) P300 NO SCALE



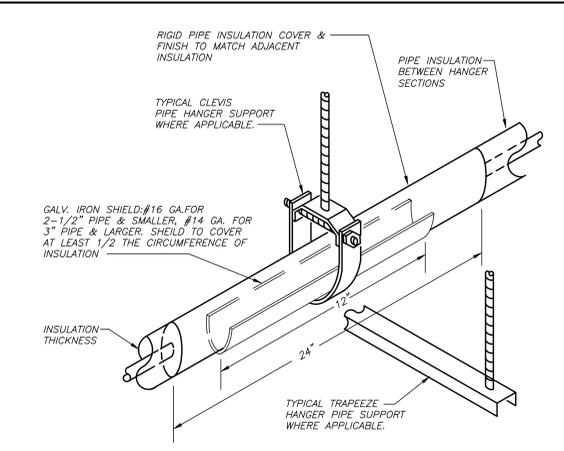
DOMESTIC HOT WATER BOOSTER HEATER SCHEMATIC HOOK-UP DETAIL (7) P300 NO SCALE



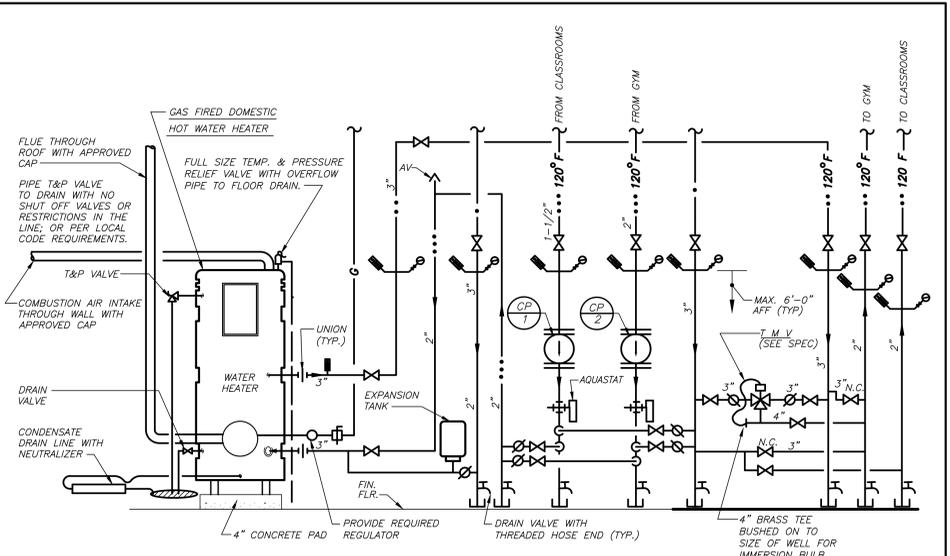
HEAT PUMP BACKFLOW PREVENTER DETAIL (3) P300 NO SCALE



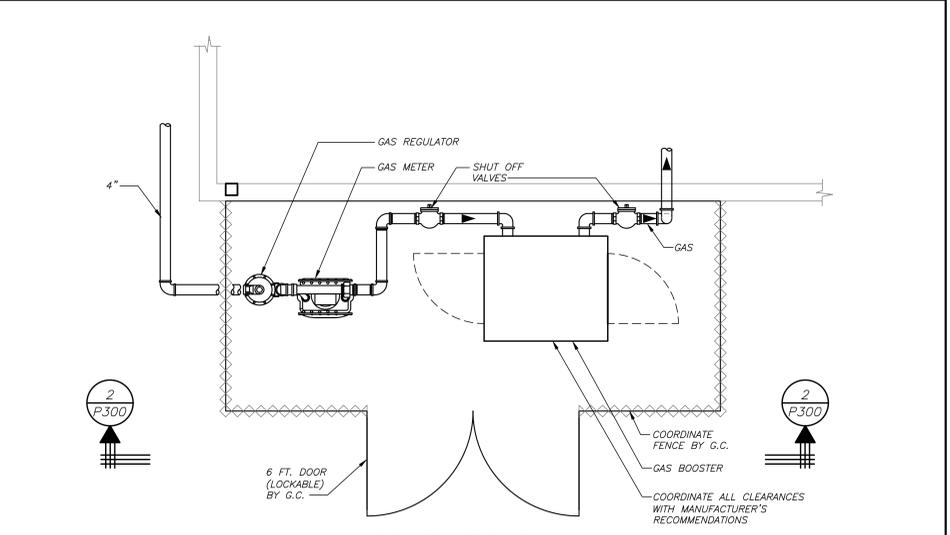
SCHEMATIC EJECTOR DETAIL (BASE BID) (4) P300 NO SCALE



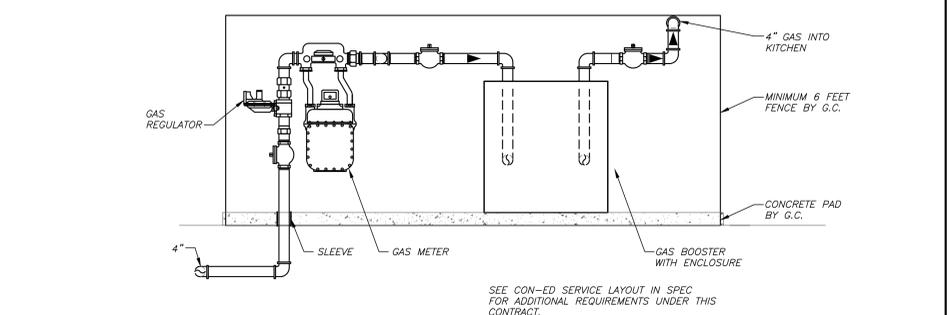
INSULATED PIPE HANGER DETAIL (5) P300 NO SCALE



CONDENSING HOT WATER HEATER SCHEMATIC PIPING DETAIL (1) P300 NO SCALE



SCHEMATIC PLAN



SCHEMATIC SECTION

SCHEMATIC GAS METER / BOOSTER ASSEMBLY DETAIL (2) P300

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YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLEAN AVENUE
YONKERS, NY 10705

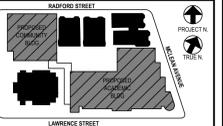
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CONSTRUCTION DOCUMENTS

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914.328.0660 GENERAL@BGGA-ENG.COM WWW.BGGA-ENG.COM



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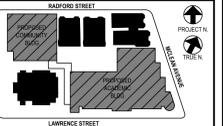
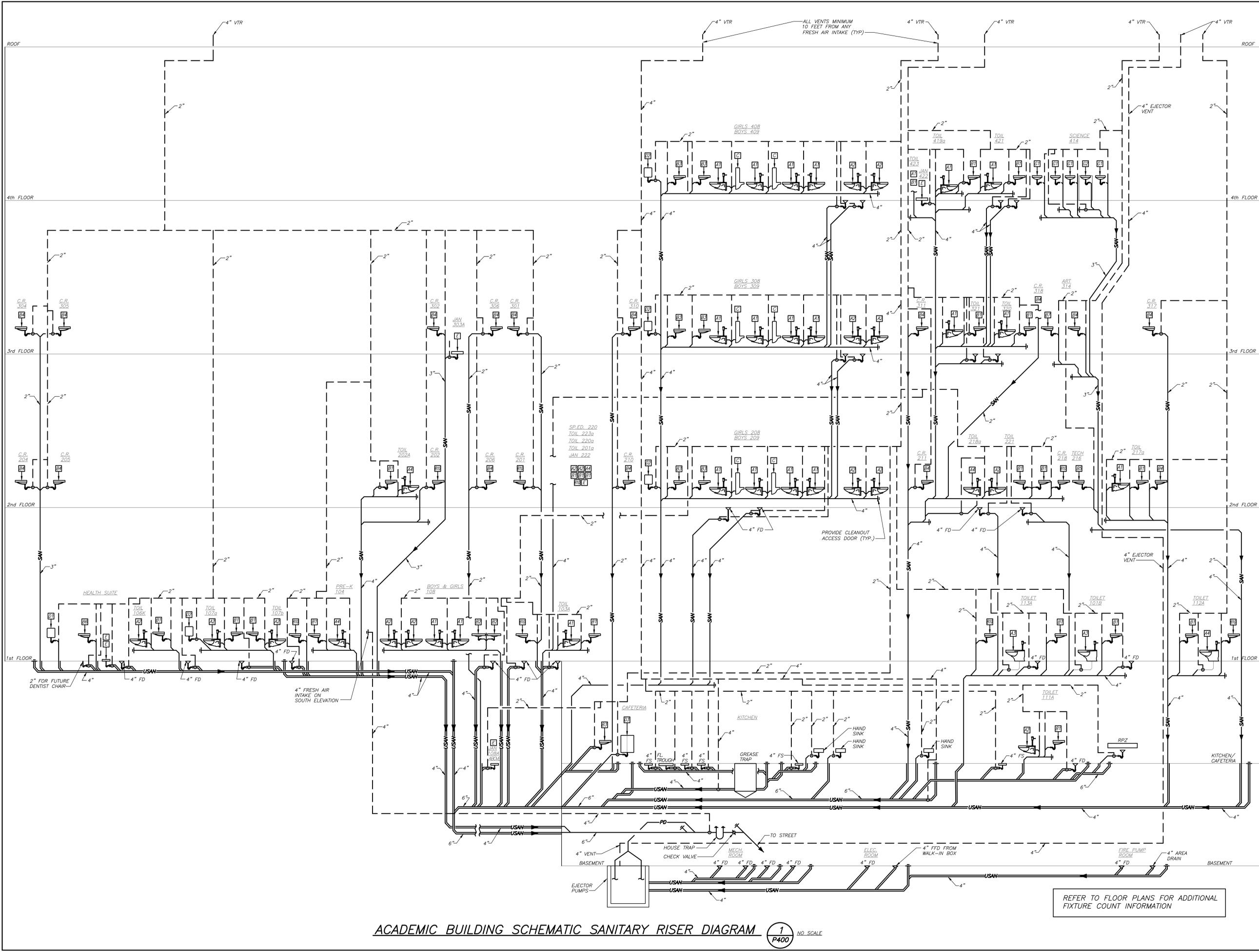
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3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

Sheet Title

PLUMBING DETAILS	
Job No.	Date
2019-1026	11/18/20
Scale	Drawn / Checked
AS NOTED	BGA/BGA
Sheet Number	

P300



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1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue
 Sheet Title

ACADEMIC BUILDING SCHEMATIC SANITARY RISER DIAGRAM

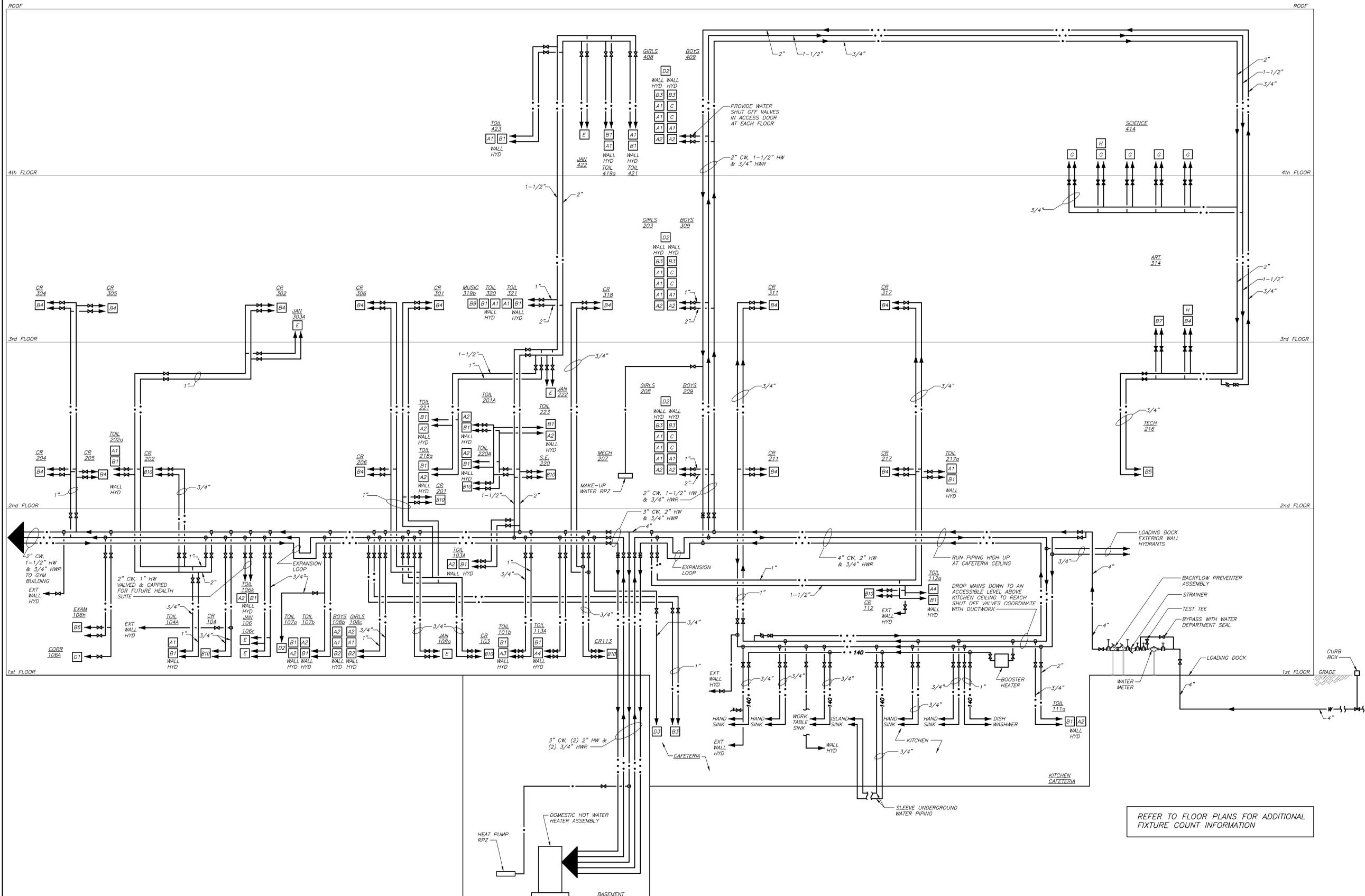
Job No.	2019-1026	Date	11/18/20
Scale	AS NOTED	Drawn / Checked	BGA/BGA

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P400

ACADEMIC BUILDING SCHEMATIC SANITARY RISER DIAGRAM 1 NO. SCALE P400

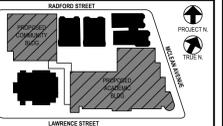
REFER TO FLOOR PLANS FOR ADDITIONAL FIXTURE COUNT INFORMATION

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ACADEMIC BUILDING DOMESTIC WATER SCHEMATIC RISER DIAGRAM 1/401 NO. SCALE

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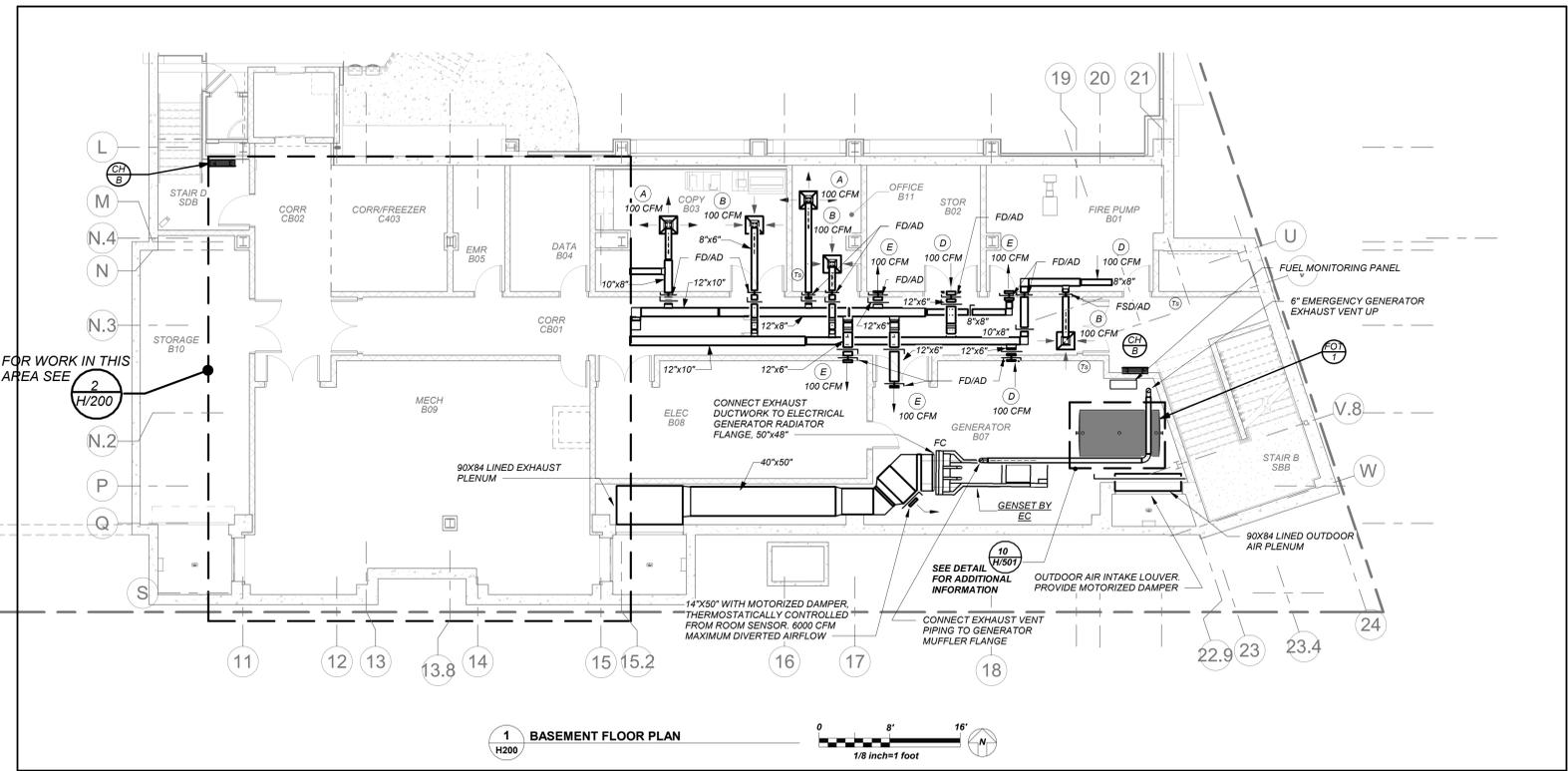
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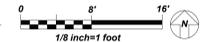
No. Date Issue
 Sheet Title

ACADEMIC BUILDING
 DOMESTIC WATER
 SCHEMATIC
 RISER DIAGRAM

Job No. 2019-1026 Date 11/18/20
 Scale AS NOTED Drawn / Checked BGA/BGA
 Sheet Number P401



1 BASEMENT FLOOR PLAN
H200



BUILDING STRUCTURE FIREPROOFING:

THE BUILDING STRUCTURE WILL BE PROTECTED BY 2" FIREPROOFING THROUGHOUT. THIS CONTRACTOR SHALL ISSUE COORDINATION DRAWINGS ACCORDING TO THE STRICT SCHEDULE OUTLINED IN THE "FRONT END" DOCUMENTS. ALL HANGERS FOR PIPING, CONDUIT, DUCTWORK, EQUIPMENT, ETC. MUST BE IN PLACE BEFORE FIREPROOFING TAKES PLACE. THE INSTALLATION OF HANGERS AFTER THE FACT THAT REQUIRES THE RE-APPLICATION OF FIREPROOFING WILL BE AT THE EXPENSE OF THIS CONTRACTOR.

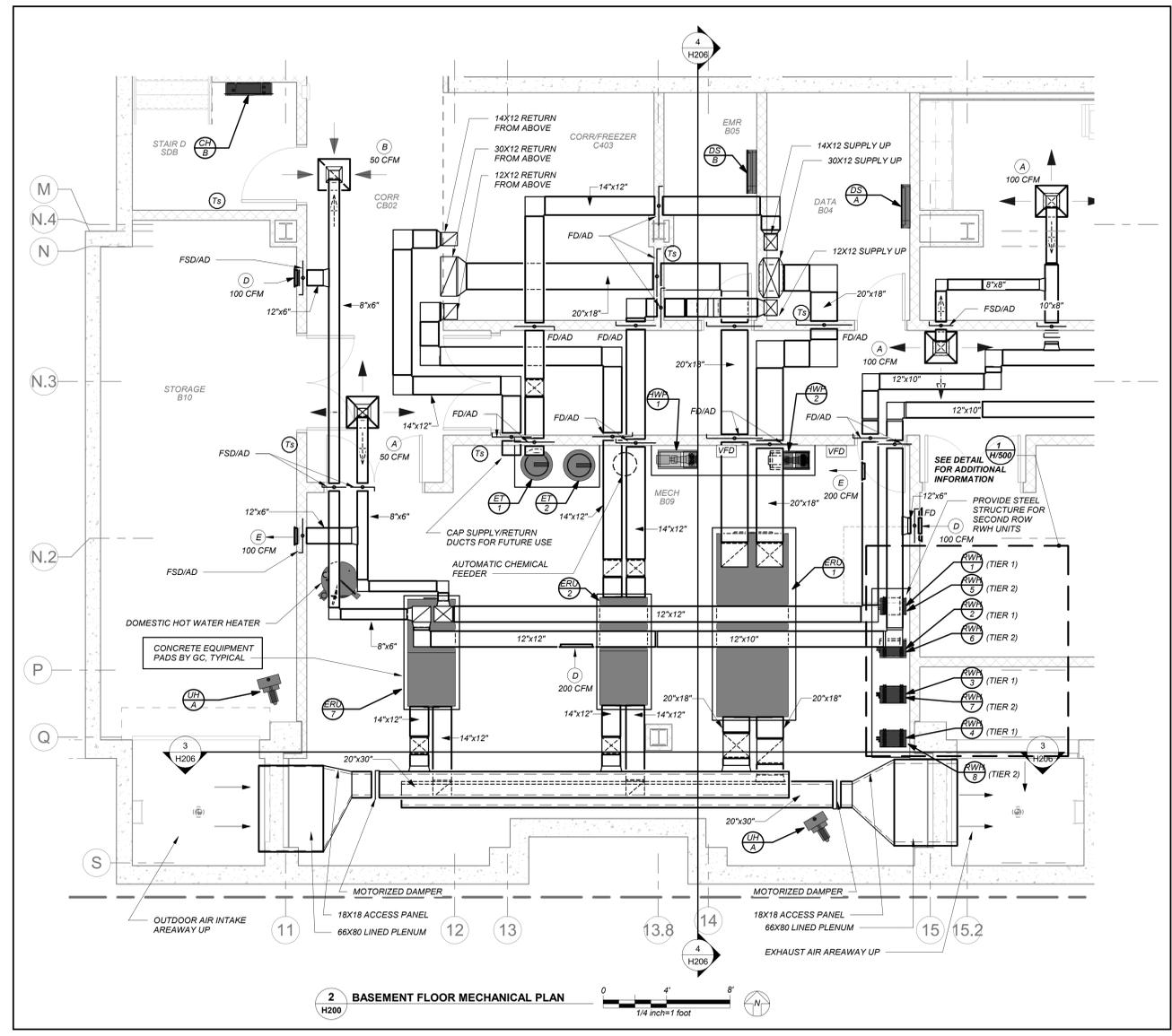
GENERAL NOTES:
VRF AND DUCTLESS SPLIT SYSTEMS:
 THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

CONDENSATE PIPING:
 PROVIDE CONDENSATE PIPING FOR ALL INDOOR FAN COIL EVAPORATOR UNITS AND AIR HANDLER CONDENSATE PANS. RUN CONDENSATE TO NEAREST FLOOR DRAIN OR JANITOR'S SINK. PROVIDE CONDENSATE PUMPS WHERE GRAVITY DRAINAGE IS NOT POSSIBLE. FOR COMPLETE AND OPERABLE SYSTEMS.

PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.

EQUIPMENT IDENTIFICATION TAGS:
 EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG NUMBERS/LETTERS. THOSE DESIGNATIONS SHALL BE USED IN ALL BMS PROGRAMMING AND ON PERMANENT EQUIPMENT TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL DESIGNATIONS.

DUCTWORK LINER:
 ALL SUPPLY/RETURN/EXHAUST DUCTWORK SHALL BE LINED WITHIN 20 FT. OF AIR HANDLERS. EXHAUST DUCTWORK WITHIN 10 FT. OF EXTERIOR SHALL BE LINED. SEE SPECIFICATIONS. PROVIDE ADDITIONAL LINER WHERE NOTED.



2 BASEMENT FLOOR MECHANICAL PLAN
H200



LEGEND	
	NEW DUCTWORK
	1" THERMAL ACOUSTIC LINING DUCTWORK ON PLANS ARE CLEAR INSIDE DIMENSIONS
	FLEXIBLE CONNECTION
	SQUARE DUCT TURN WITH TURNING VANES
	NEW 4-WAY CEILING DIFFUSER
	NEW 3-WAY CEILING DIFFUSER
	NEW 2-WAY CEILING DIFFUSER
	CEILING EXHAUST/RETURN REGISTER
	REGISTER/DIFFUSER IDENTIFICATION
	DUCT DROP, DUCT RISE
	DUCT MTD. MANUAL AIR VOLUME DAMPER (W/LOCKING DEVICE)
	MOTORIZED AIR VOLUME DAMPER (W/ACCESS DOOR)
	FIRE DAMPER (U.L. APPROVED) & ACCESS DOOR
	COMBINATION FIRE/SMOKE DAMPER (U.L. APPROVED) & ACCESS DOOR
	HOT WATER SUPPLY PIPING
	HOT WATER RETURN PIPING
	LIQUID REFRIGERANT PIPING
	SUCTION REFRIGERANT PIPING
	HOT GAS REFRIGERANT PIPING
	CONDENSATE DRAIN PIPING
	FLOW DIRECTION WITHIN PIPE
	GATE VALVE (HORIZONTAL/VERTICAL)
	COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	CHECK VALVES
	PIPE CONNS. (BOTTOM, TOP 45 OR 90; PIPE UP)
	EXPANSION JOINT, ANCHOR AND GUIDES
	HOT WATER PUMP IDENTIFICATION
	EXHAUST FAN IDENTIFICATION
	SUPPLY FAN IDENTIFICATION
	DUCTLESS SPLIT UNIT IDENTIFICATION
	HOT WATER CABINET HEATER IDENTIFICATION
	ELECTRIC CABINET HEATER IDENTIFICATION
	HOT WATER UNIT HEATER IDENTIFICATION
	ELECTRIC UNIT HEATER IDENTIFICATION
	CONDENSATE PUMP IDENTIFICATION
	INDOOR ENERGY RECOVERY UNIT IDENTIFICATION
	OUTDOOR ENERGY RECOVERY UNIT IDENTIFICATION
	FAN COIL UNIT IDENTIFICATION
	REFRIGERANT TO HOT WATER HEAT EXCHANGER UNIT IDENTIFICATION
	AIR SOURCE HEAT PUMP UNIT IDENTIFICATION
	EXPANSION TANK IDENTIFICATION
	CONVECTOR IDENTIFICATION
	FUEL OIL TANK IDENTIFICATION
	HOT WATER HEATING COIL IDENTIFICATION
	RADIANT CEILING PANEL IDENTIFICATION
	NEW FIN TUBE RADIATION IDENTIFICATION
	TO CONTROLLED ITEM WALL MTD. (S-2" A.F.-F.U.O.N.) TEMPERATURE SENSOR
	TO CONTROLLED ITEM WALL MTD. (S-2" A.F.-F.U.O.N.) REVERSE ACTING THERMOSTAT
	TO CONTROLLED ITEM WALL MTD. (S-2" A.F.-F.U.O.N.) CARBON DIOXIDE SENSOR
	CIRCUIT SETTER
	DOOR UNDERCUT
	POWDER COATED SHEET METAL RISER ENCLOSURE
	AUTOMATIC TEMPERATURE CONTROLS
	CEILING DIFFUSER
	CEILING REGISTER
	TOP WALL REGISTER
	CUBIC FEET PER MINUTE
	FULL SIZE CONNECTION
	ABOVE FINISHED FLOOR
	OUTSIDE (FRESH) AIR INTAKE
	HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR
	ELECTRICAL CONTRACTOR
	PLUMBING CONTRACTOR
	GENERAL TRADES CONTRACTOR
	FLEXIBLE CONNECTION
	FULL SIZE CONNECTION
	ACCESS DOOR
	1/2" SQ. WIRE MESH GRILLE
	FIRE DAMPER
	SECTION/ELEVATION/PART NUMBER
	DRAWING NUMBER
	SECTION/ELEVATION IDENTIFICATION

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE
 YONKERS JOINT SCHOOL CONSTRUCTION BOARD
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 Yonkers, NY 10705

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 285 MAIN STREET MOUNT KISCO, NEW YORK 10549
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CONSTRUCTION DOCUMENTS

bgd
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 P-914.328.0099 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM



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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Legend, Basement Floor Plans, and Notes

Job No. 2019-1026 Date 8/31/20
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H200

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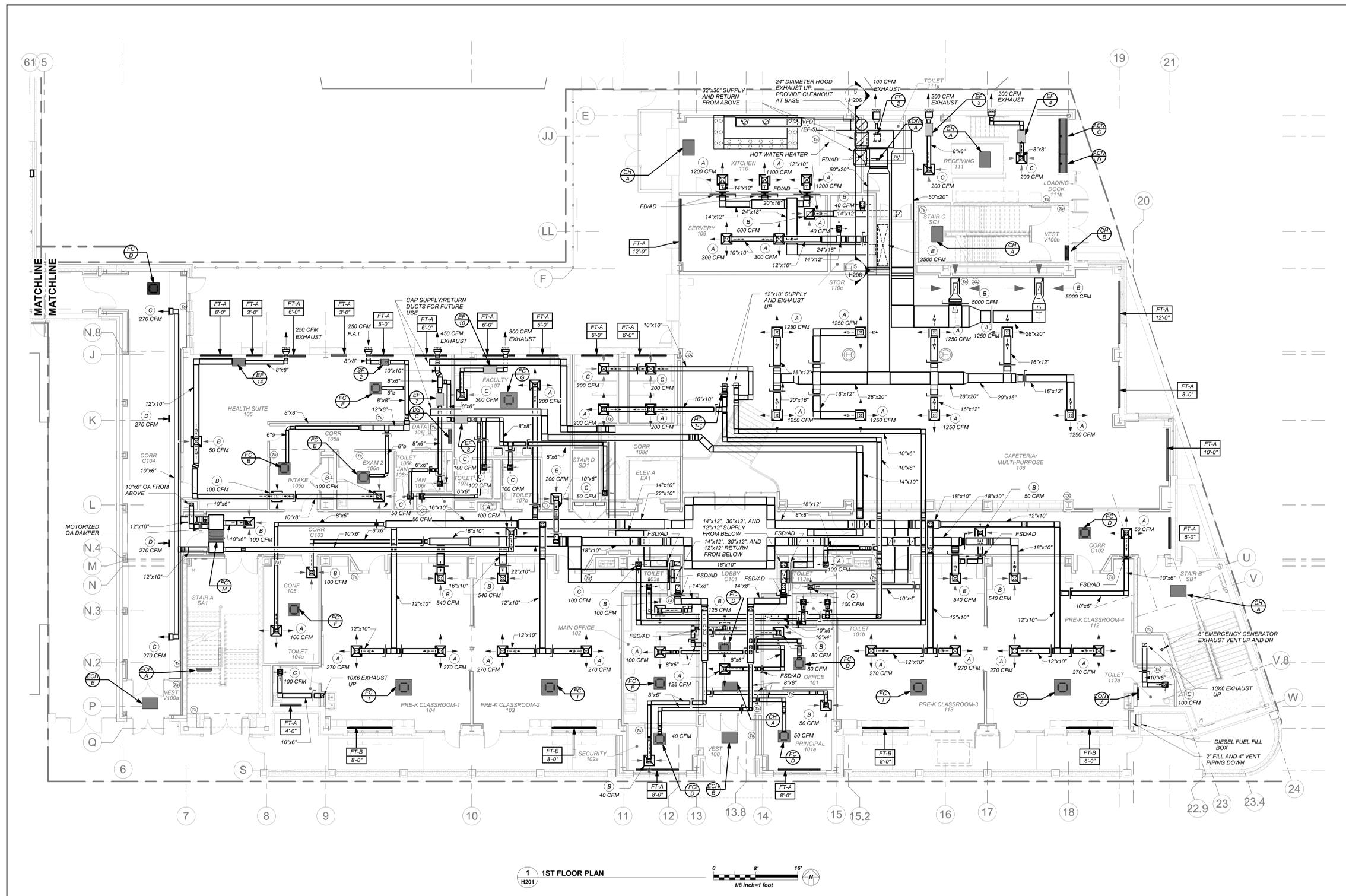
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CONSTRUCTION DOCUMENTS

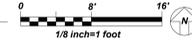


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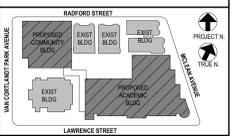


1 1ST FLOOR PLAN
H201



DUCTWORK LINER:
ALL SUPPLY/RETURN/EXHAUST DUCTWORK SHALL BE LINED WITHIN 20 FT. OF AIR HANDLERS' EXHAUST/ DUCTWORK WITHIN 10 FT. OF EXTERIOR SHALL BE LINED. SEE SPECIFICATIONS.

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1	08/31/2020	SCHEMATIC DESIGN

1st Floor Plan

Job No. 2019-1026 Date 8/31/20
Scale AS NOTED Drawn / Checked BGA/BGA

Sheet Number
H201

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

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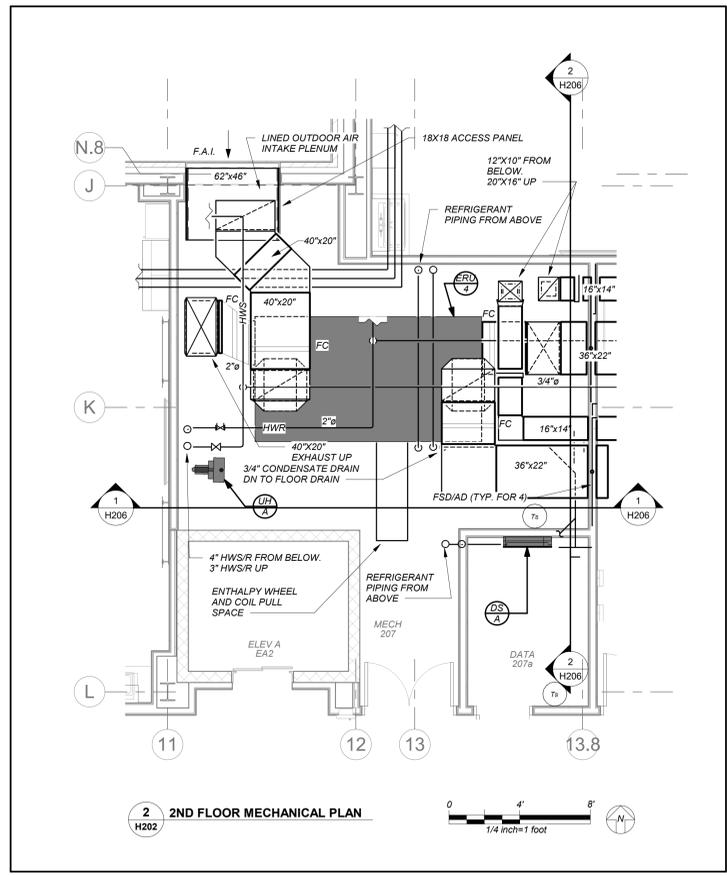
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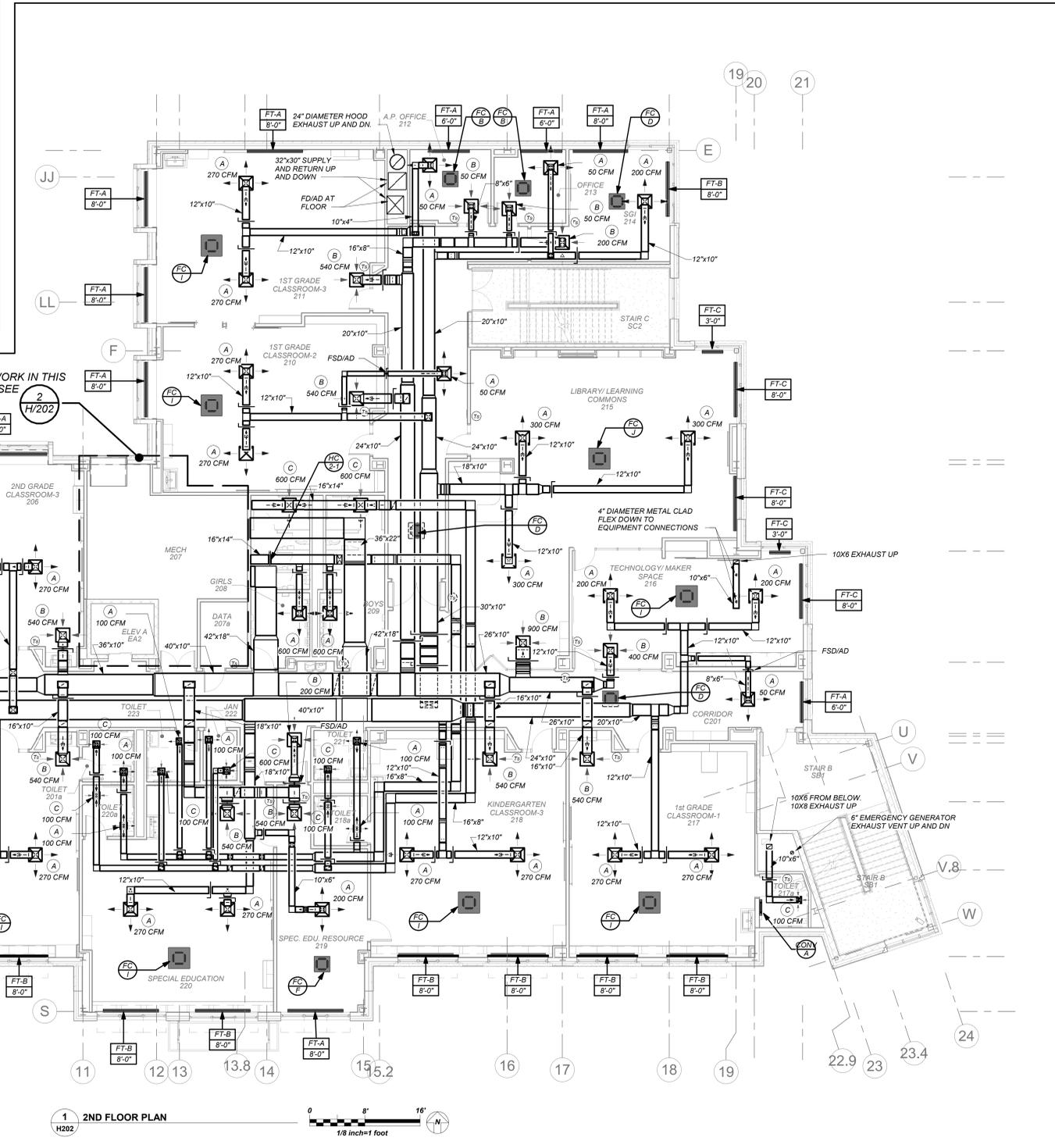
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2ND FLOOR MECHANICAL PLAN

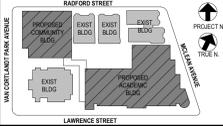


1 2ND FLOOR PLAN

DUCTWORK LINER:
ALL SUPPLY/RETURN/EXHAUST DUCTWORK SHALL BE LINED WITHIN 20 FT. OF AIR HANDLERS. EXHAUST DUCTWORK WITHIN 10 FT. OF EXTERIOR SHALL BE LINED. SEE SPECIFICATIONS.

FOR WORK IN THIS AREA SEE 2 H/202

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS



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WRITTEN DIMENSIONS ON THIS DRAWING SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

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Professional Seal

No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS&D
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Job No.	Date
2019-1026	8/31/20

Scale	Drawn / Checked
AS NOTED	BGA/BGA

Sheet Number

H202

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



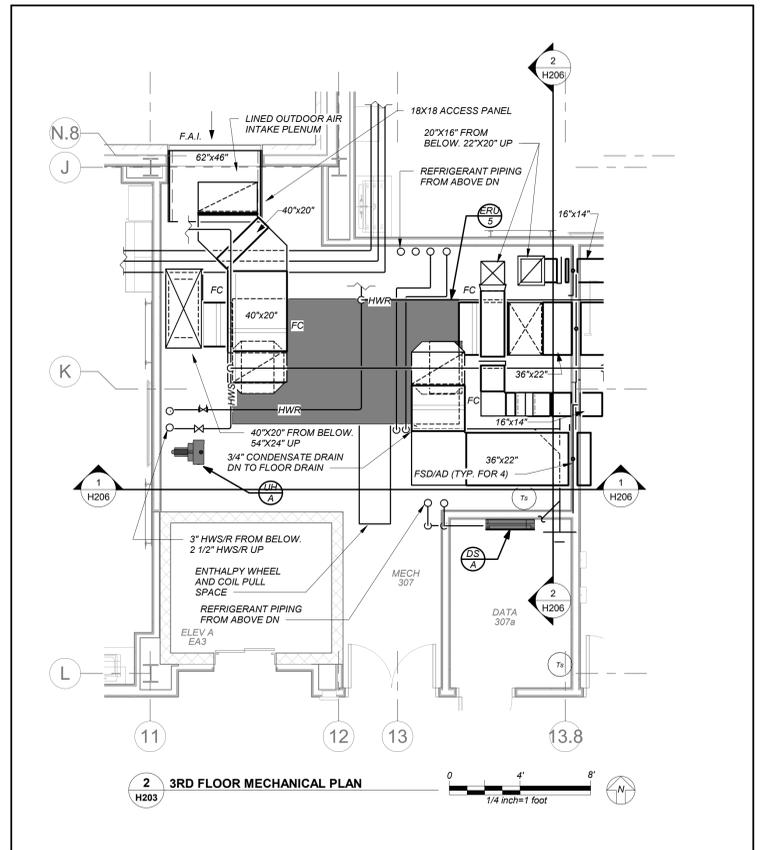
KG+D . ARCHITECTS PC
285 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P:914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

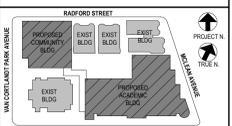
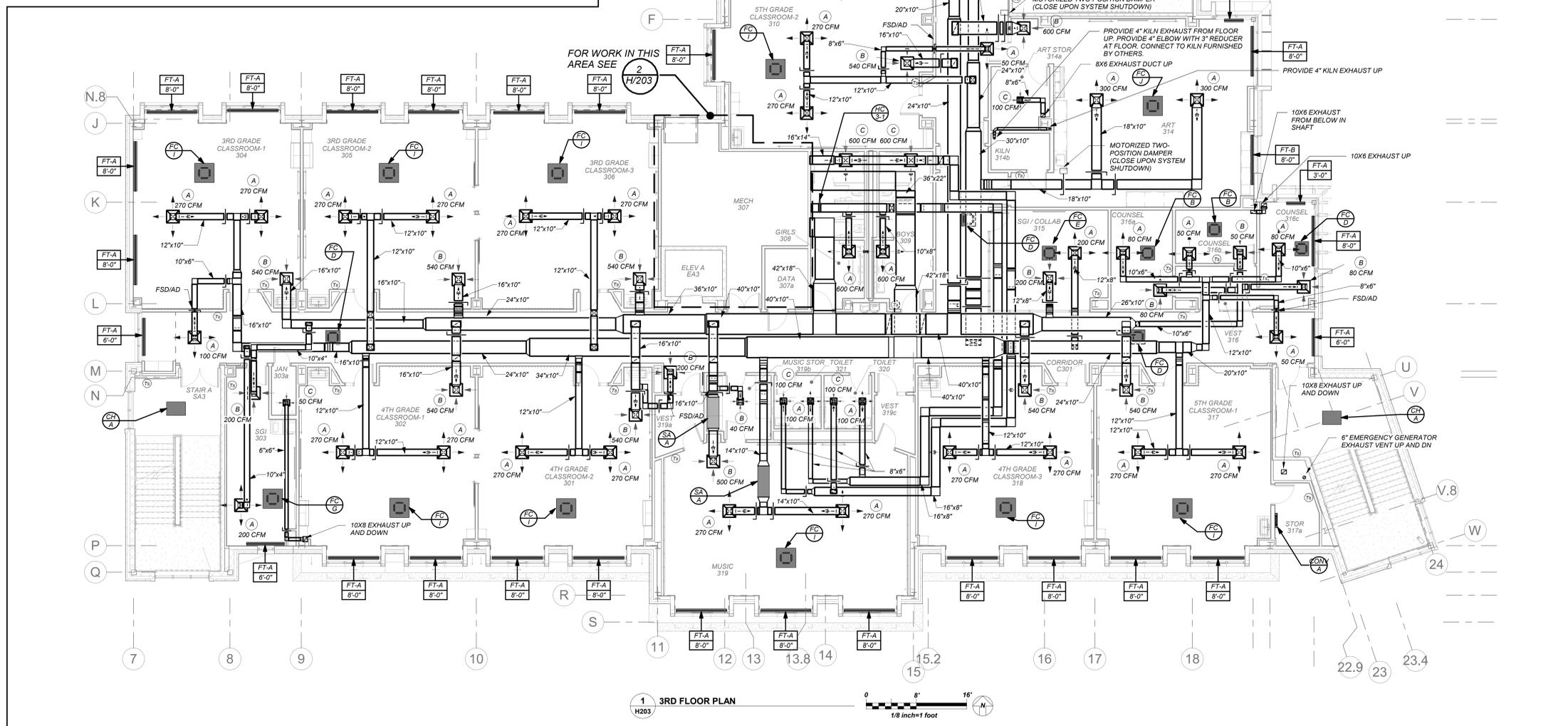
CONSTRUCTION DOCUMENTS



BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
99 MARBLE AVE. PLEASANTVILLE, NY 10570
914.326.0099 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM



DUCTWORK LINER:
ALL SUPPLY/RETURN/EXHAUST DUCTWORK SHALL BE LINED WITHIN 20 FT. OF AIR HANDLERS. EXHAUST DUCTWORK WITHIN 10 FT. OF EXTERIOR SHALL BE LINED. SEE SPECIFICATIONS.



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No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS/ED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

3rd Floor Plans

Job No. 2019-1026 Date 8/31/20
Scale AS NOTED Drawn / Checked BGA/BGA
Sheet Number

H203

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



KG+D . ARCHITECTS PC
285 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P:914.686.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

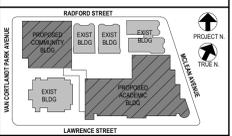
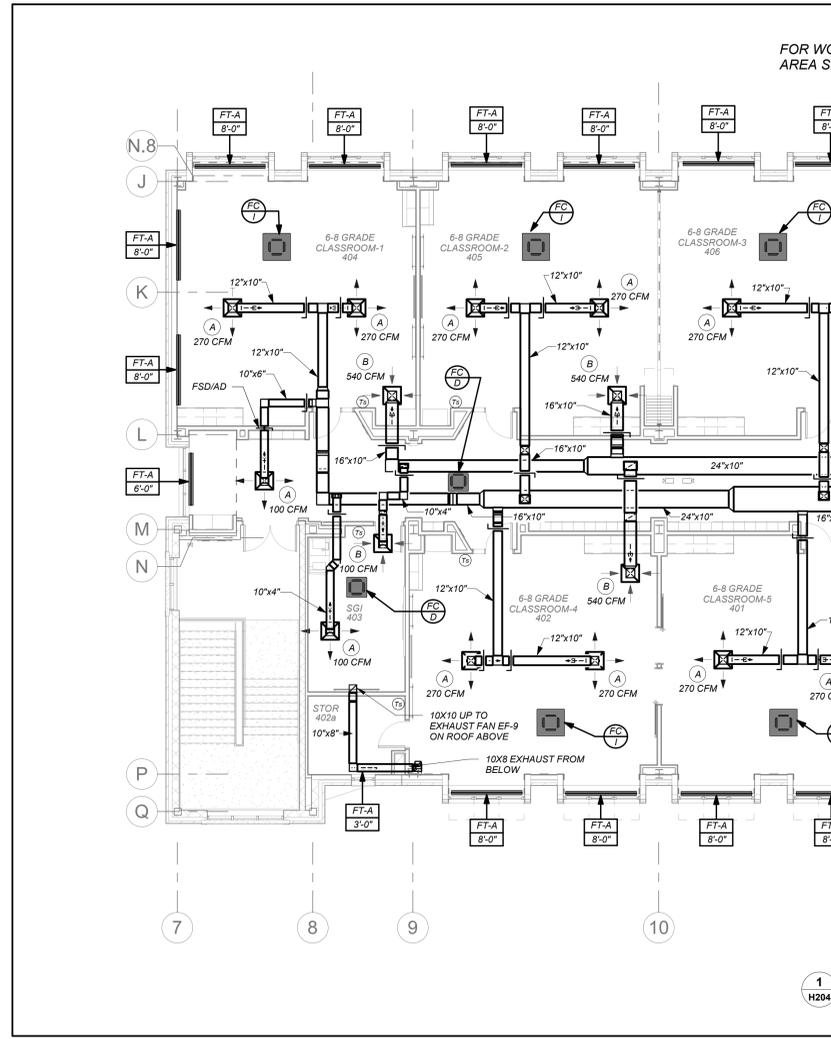
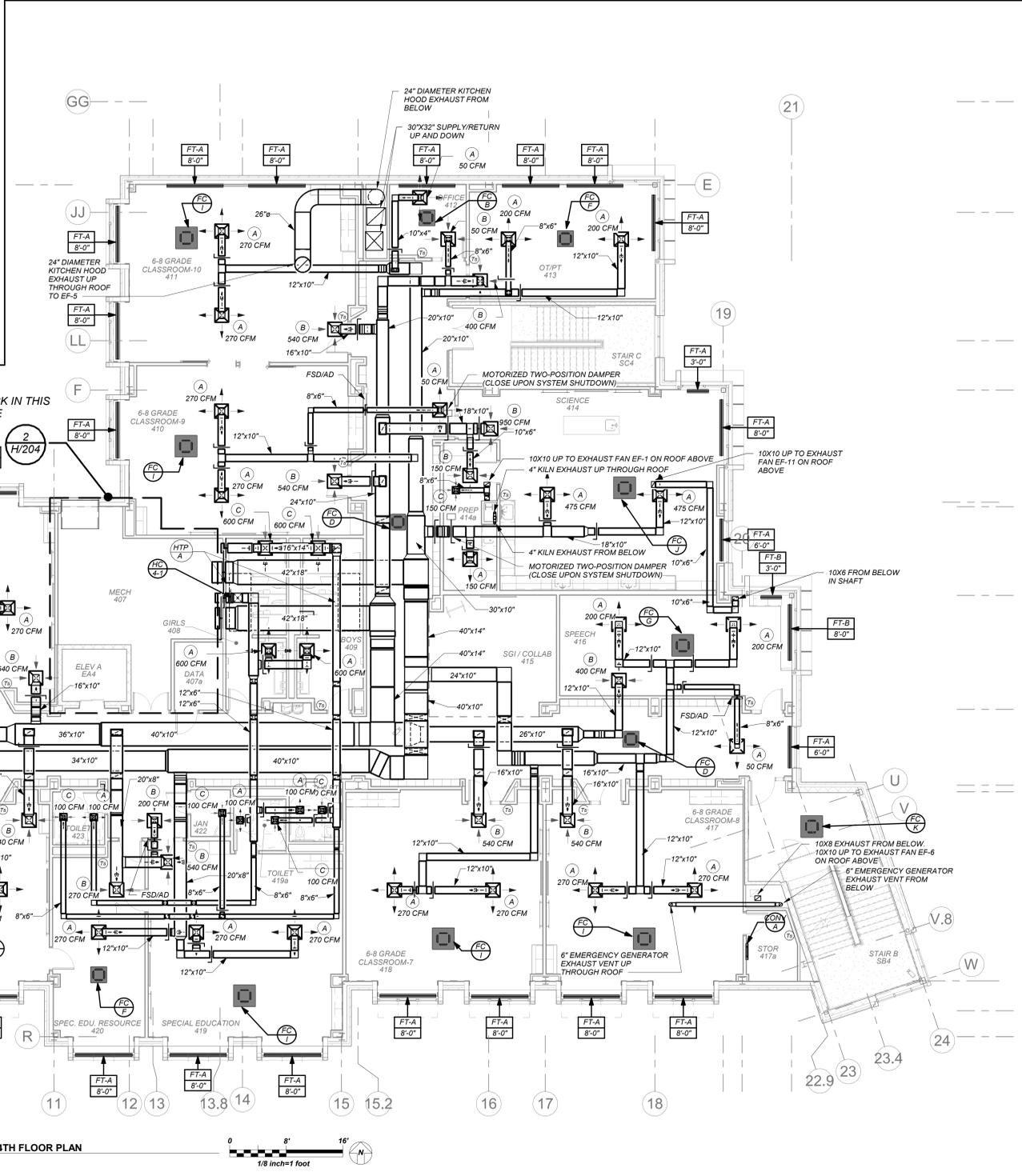
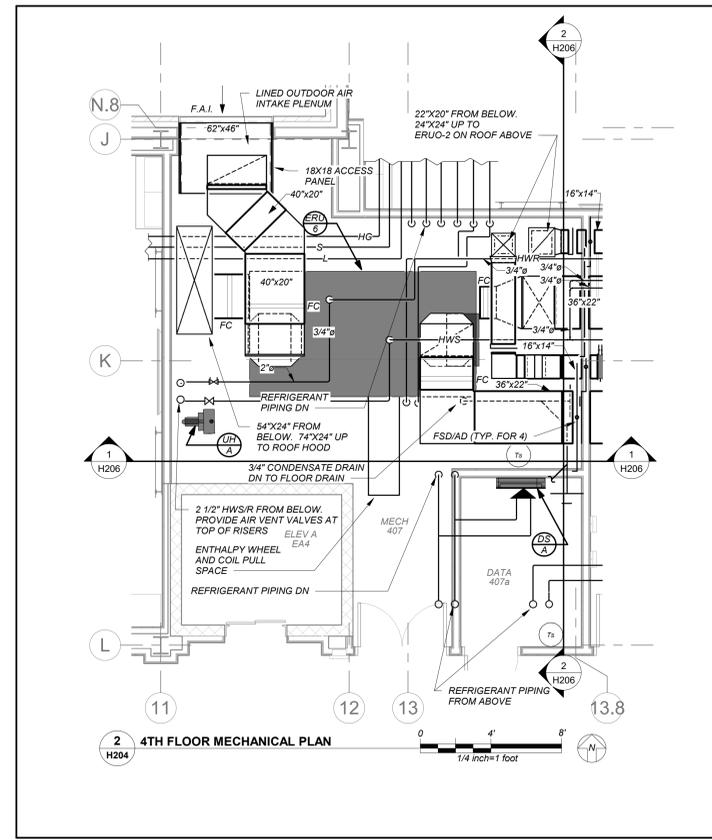
CONSTRUCTION DOCUMENTS



BARILE GALLAGHER & ASSOCIATES

CONSULTING ENGINEERS
99 MARBLE AVE. PLEASANTVILLE, NY 10570
P:914.686.5900 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM

DUCTWORK LINER:
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Professional Seal

No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

4th Floor Plans

Job No. 2019-1026 Date 8/31/20
Scale AS NOTED Drawn / Checked BGA/BGA
Sheet Number

H204

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



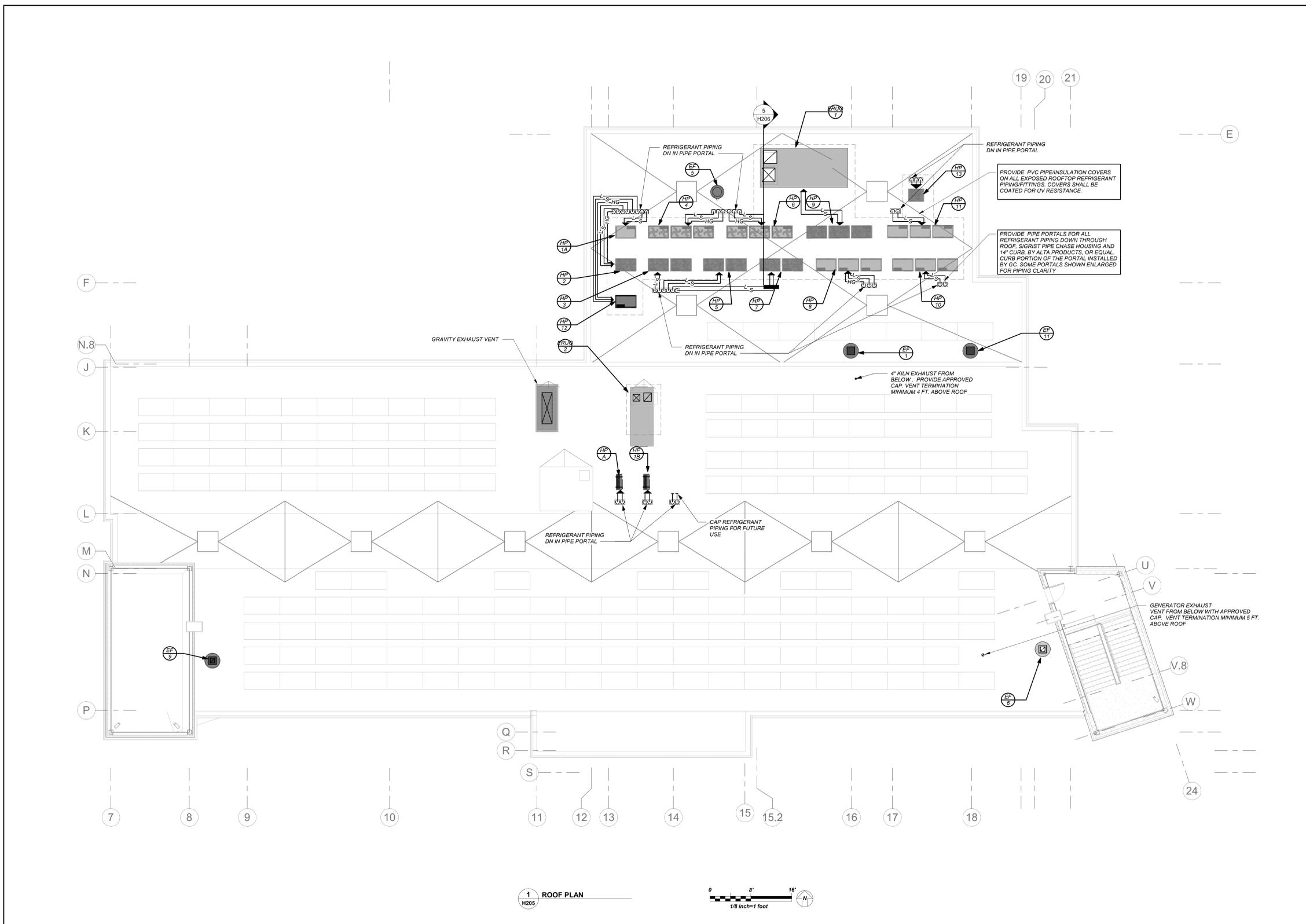
KG+D . ARCHITECTS PC
285 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P:914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

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1 ROOF PLAN
H205



BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

VRF AND DUCTLESS SPLIT SYSTEMS:
THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

DUCTWORK LINER:
ALL SUPPLY/RETURN/EXHAUST DUCTWORK SHALL BE LINED WITHIN 20 FT. OF AIR HANDLERS. EXHAUST DUCTWORK WITHIN 10 FT. OF EXTERIOR SHALL BE LINED. SEE SPECIFICATIONS.

CONDENSATE PIPING:
PROVIDE CONDENSATE PIPING FOR ALL INDOOR FAN COIL EVAPORATOR UNITS AND AIR HANDLER CONDENSATE PANS. RUN CONDENSATE TO NEAREST FLOOR DRAIN OR JANITOR'S SINK. PROVIDE CONDENSATE PUMPS WHERE GRAVITY DRAINAGE IS NOT POSSIBLE, FOR COMPLETE AND OPERABLE SYSTEMS.

PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.

NOTE: ALL LOCAL REGIONAL ARRANGEMENTS ARE PLANNED AND INDICATED OR REPRESENTED BY THIS DRAWING AND ARE THE PROPERTY OF ANEXER GARBETT & ASSOCIATES ARCHITECTS PC. THESE ARRANGEMENTS ARE NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF ANEXER GARBETT & ASSOCIATES ARCHITECTS PC. THESE ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF ANEXER GARBETT & ASSOCIATES ARCHITECTS PC.

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No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

Roof Plan

Job No. 2019-1026 Date 04/07/21

Scale AS NOTED Drawn / Checked BGA/BGA

Sheet Number

H205

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

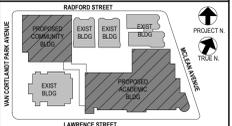
YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705

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KG+D . ARCHITECTS PC
285 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P:914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS

bga
BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
99 MARBLE AVE. PLEASANTVILLE, NY 10570
914.326.0099 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM



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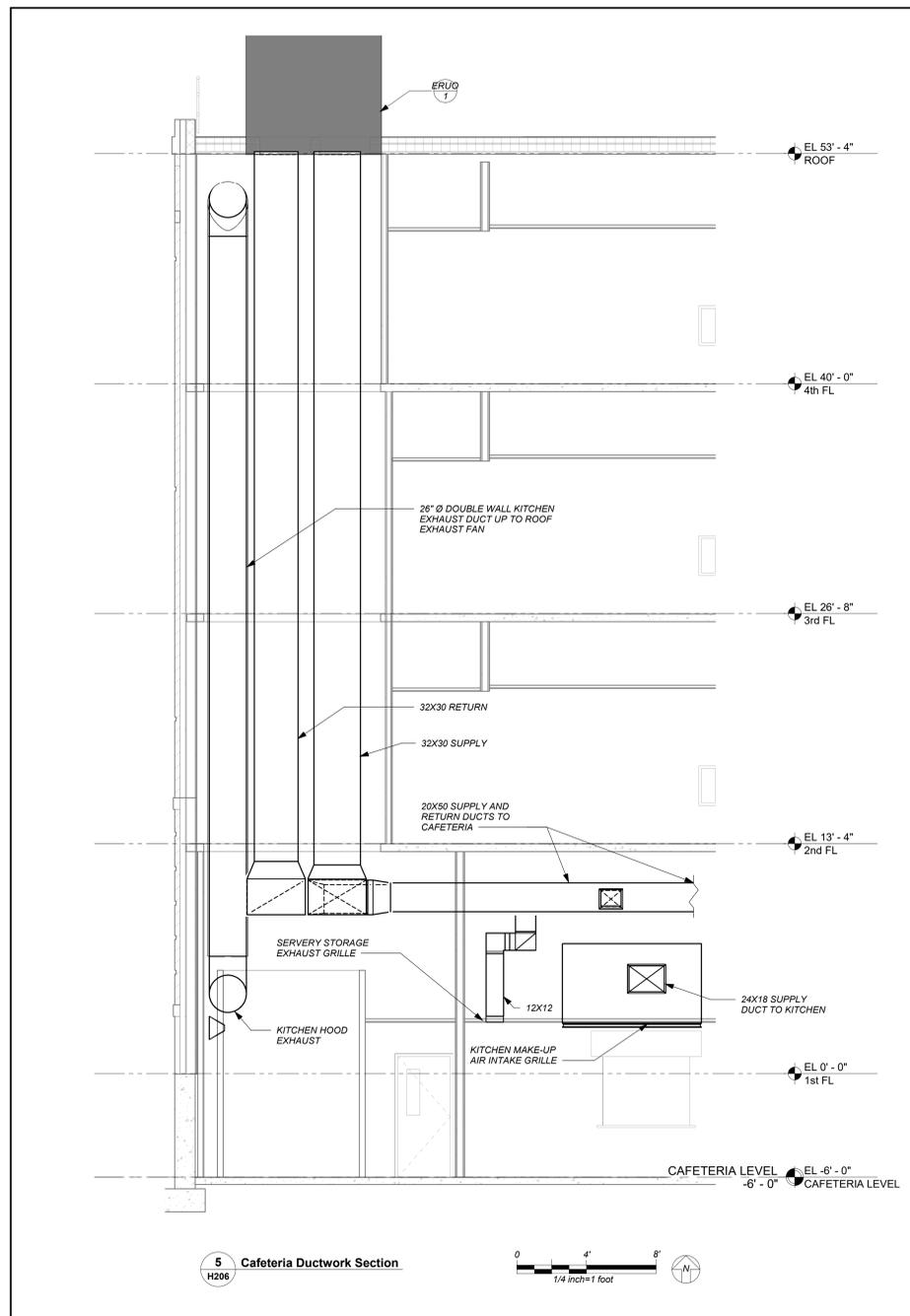
Professional Seal

No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS&D
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

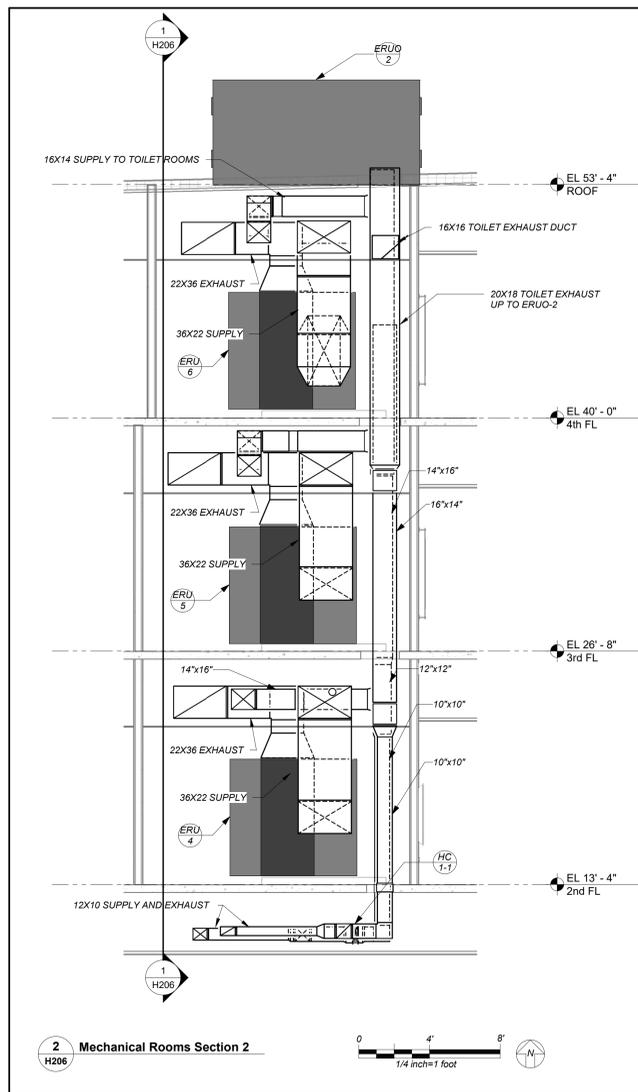
Mechanical Sections

Job No. 2019-1026 Date 09/20/21
Scale AS NOTED Drawn / Checked BGA/BGA
Sheet Number

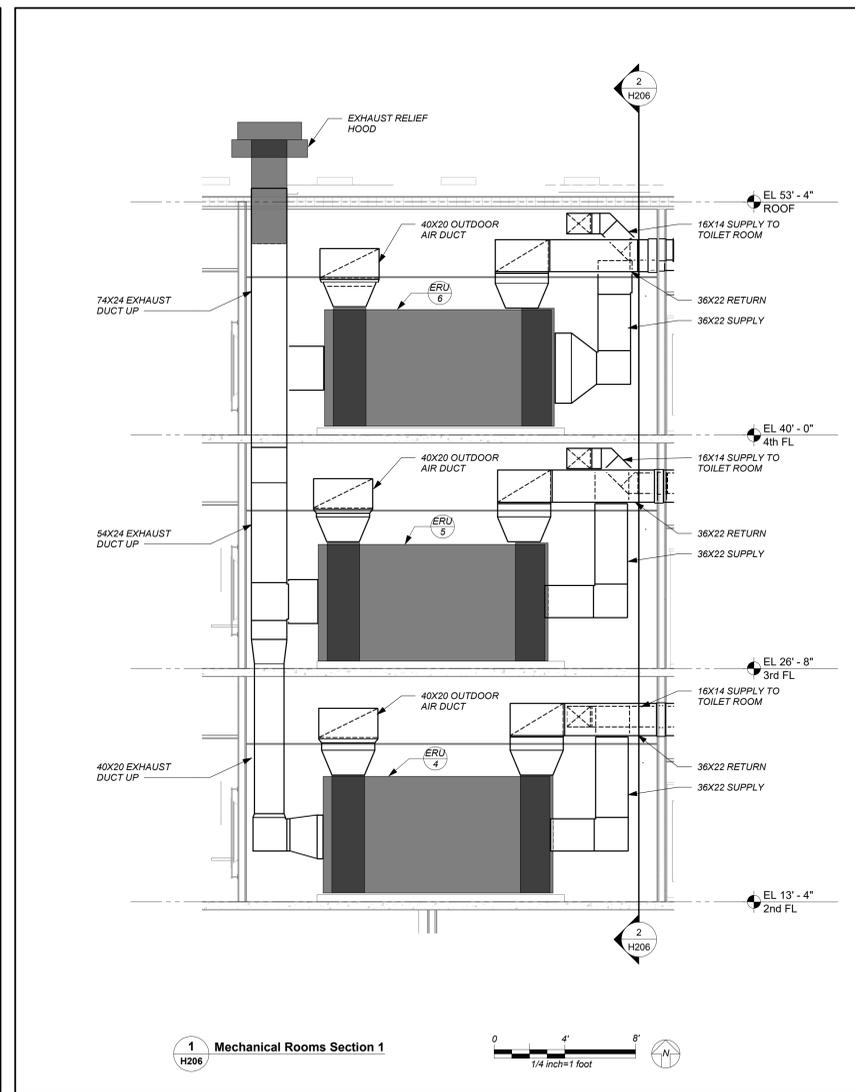
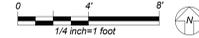
H206



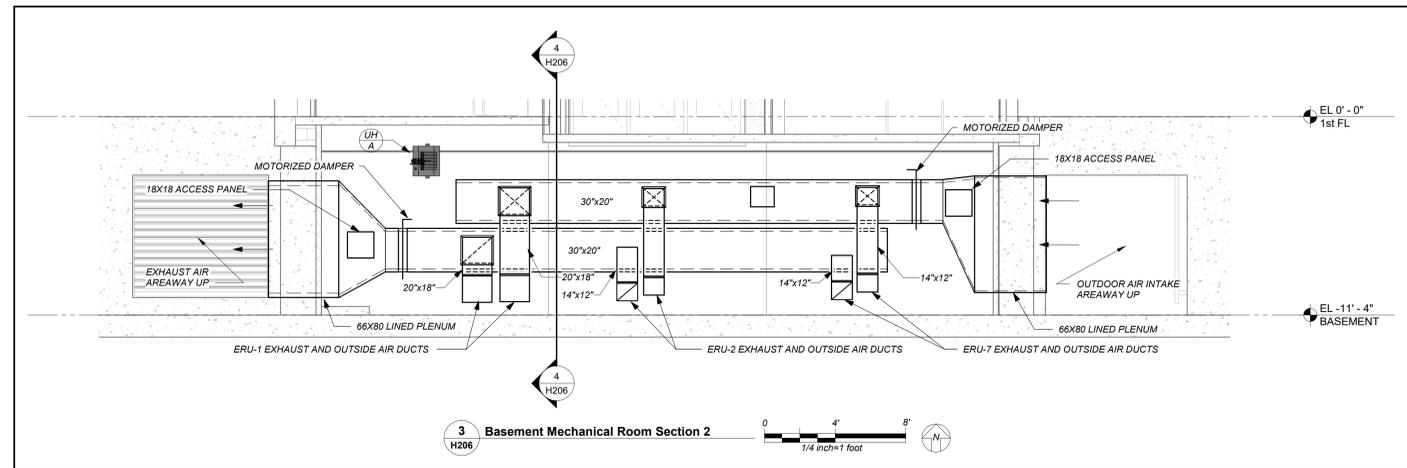
5 Cafeteria Ductwork Section
H206



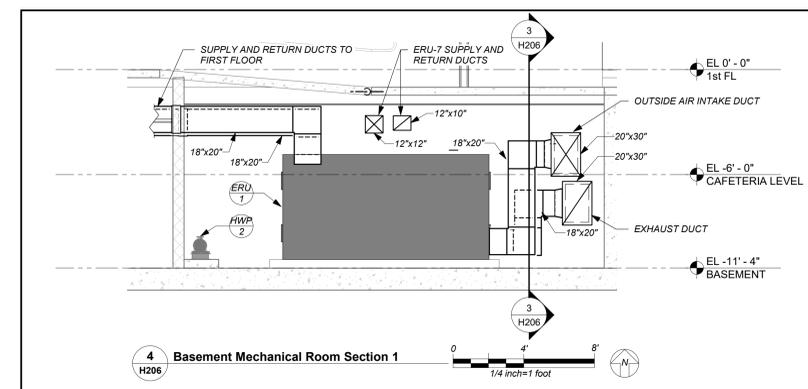
2 Mechanical Rooms Section 2
H206



1 Mechanical Rooms Section 1
H206



3 Basement Mechanical Room Section 2
H206



4 Basement Mechanical Room Section 1
H206



BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



KG+D . ARCHITECTS PC
285 MAIN STREET MOUNT KISCO, NEW YORK, 10540
P-914.666.5900 KGDARCHITECTS.COM

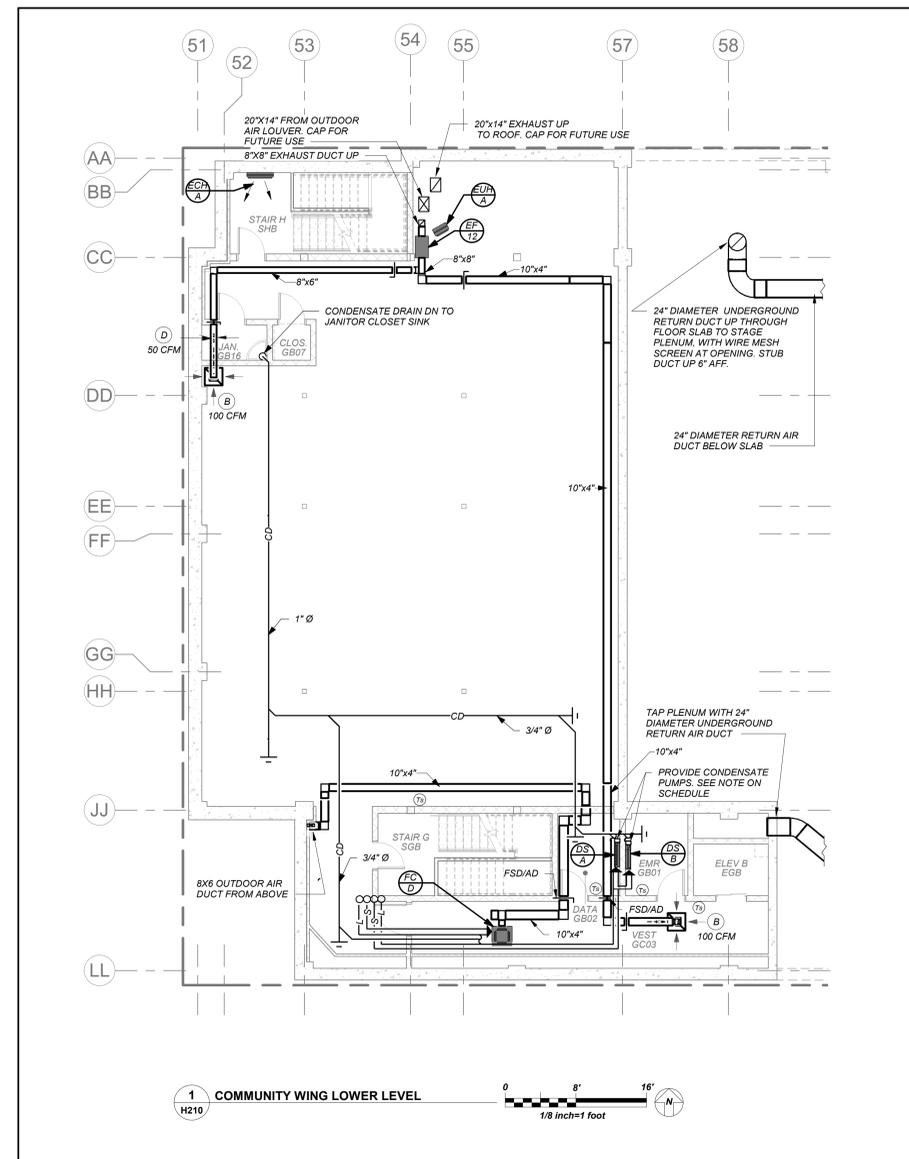
NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



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99 MARBLE AVE. PLASANTVILLE, NY 10570
914.326.0099 GENCKAL@BGA-ENG.COM WWW.BGA-ENG.COM

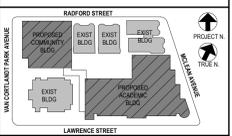


1 COMMUNITY WING LOWER LEVEL
H210
1/8"=1' 0"

VRF AND DUCTLESS SPLIT SYSTEMS:
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PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.



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Professional Seal

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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No.	Date	Issue
Sheet Title		
Community Wing Basement Floor Plan		
Job No.	2019-1026	Date 8/31/20
Scale	AS NOTED	Drawn / Checked BGA/BGA
Sheet Number		
H210		

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

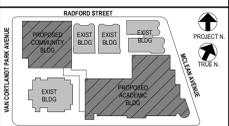
YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705

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KG+D . ARCHITECTS PC
285 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P.914.686.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS

bga
BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
99 MARBLE AVE. PLEASANTVILLE, NY 10570
P.914.686.5900 GENRAL@BGA-ENG.COM WWW.BGA-ENG.COM



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Professional Seal

No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS&D
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

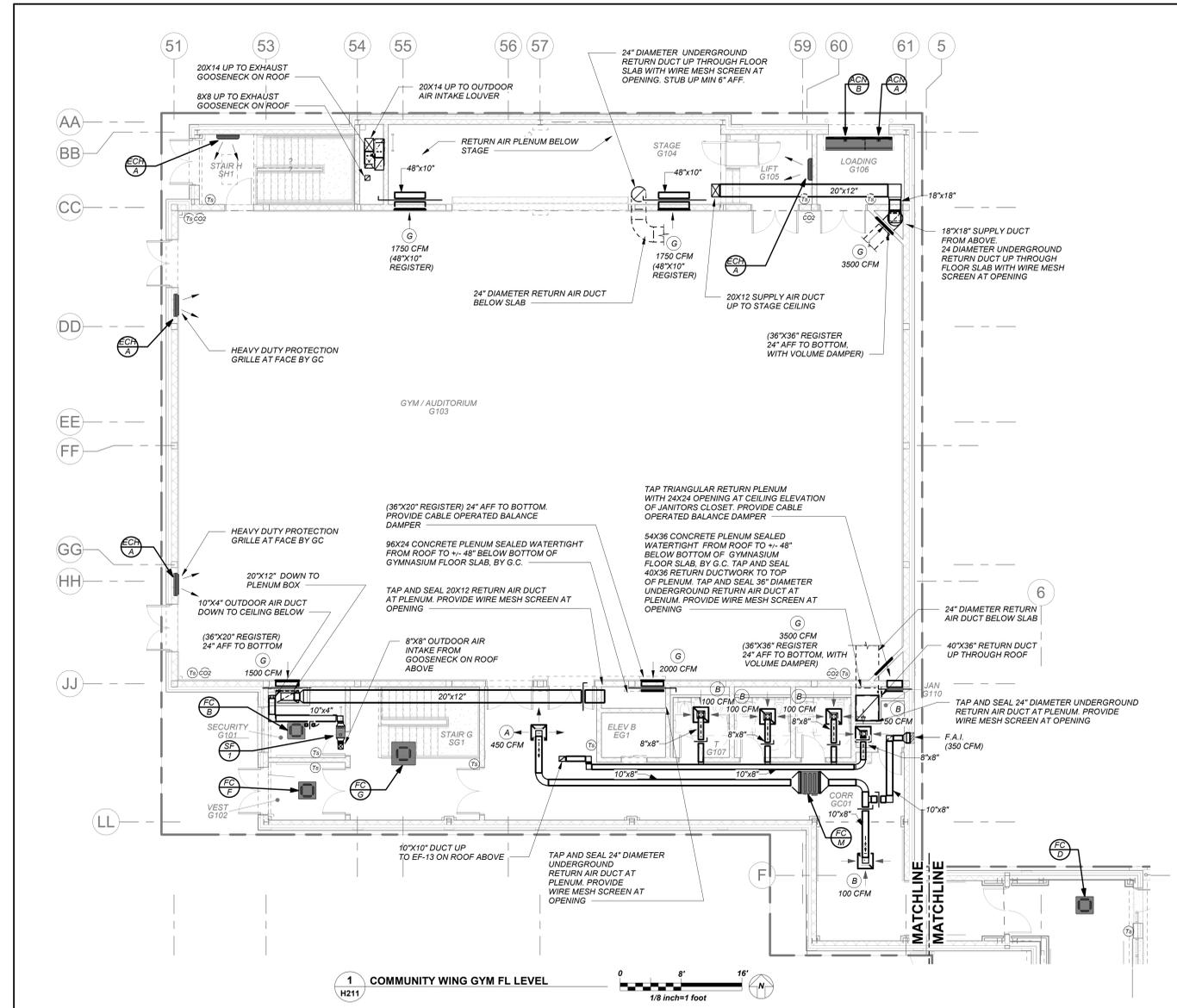
Community Wing 1st Floor Plans

Job No. 2019-1026 Date 8/31/20

Scale AS NOTED Drawn / Checked BGA/BGA

Sheet Number

H211

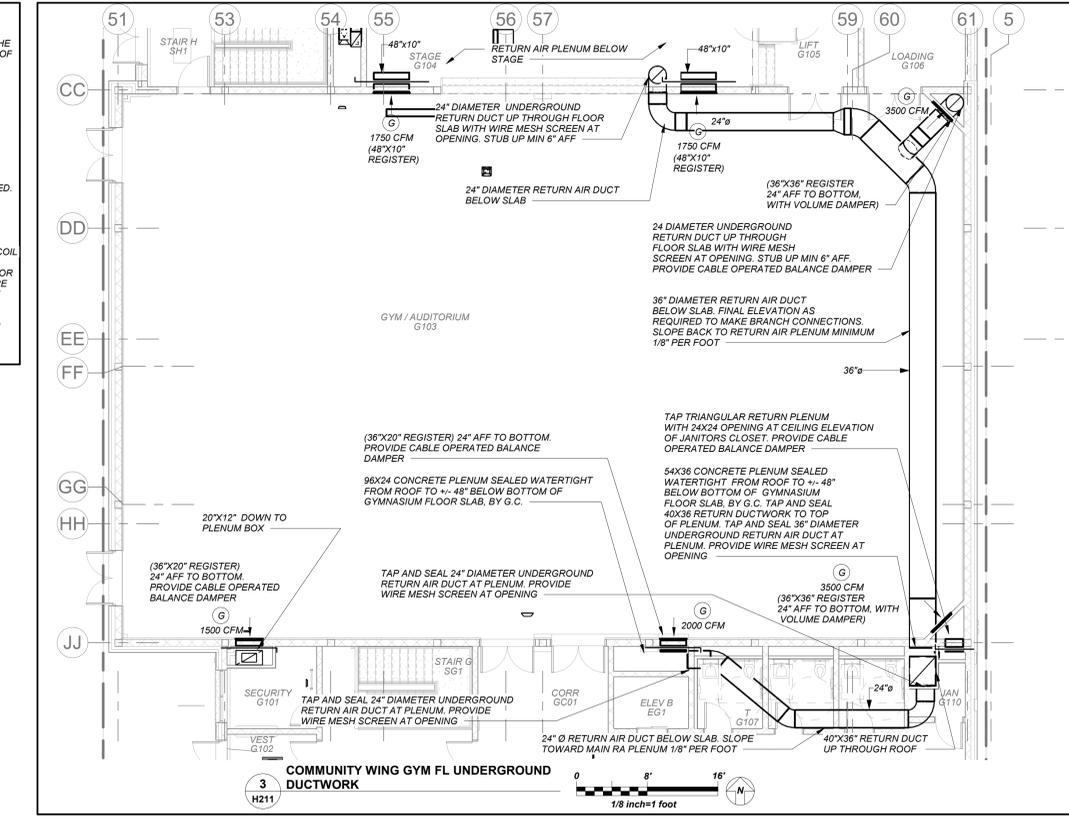


1 COMMUNITY WING GYM FL LEVEL

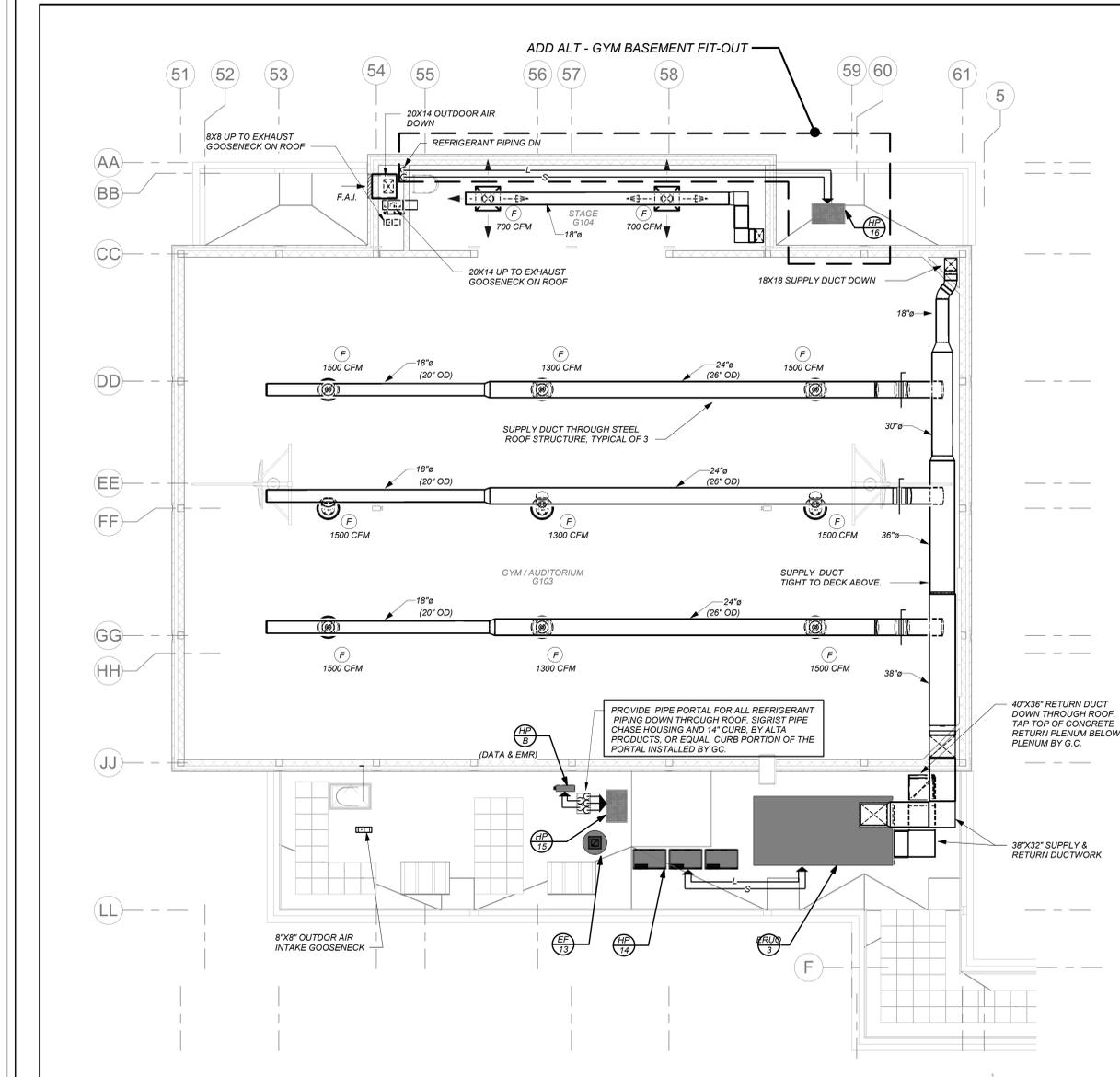
VRF AND DUCTLESS SPLIT SYSTEMS:
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DUCTWORK LINER:
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PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.



3 COMMUNITY WING GYM FL UNDERGROUND DUCTWORK



2 COMMUNITY WING UPPER LEVEL

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



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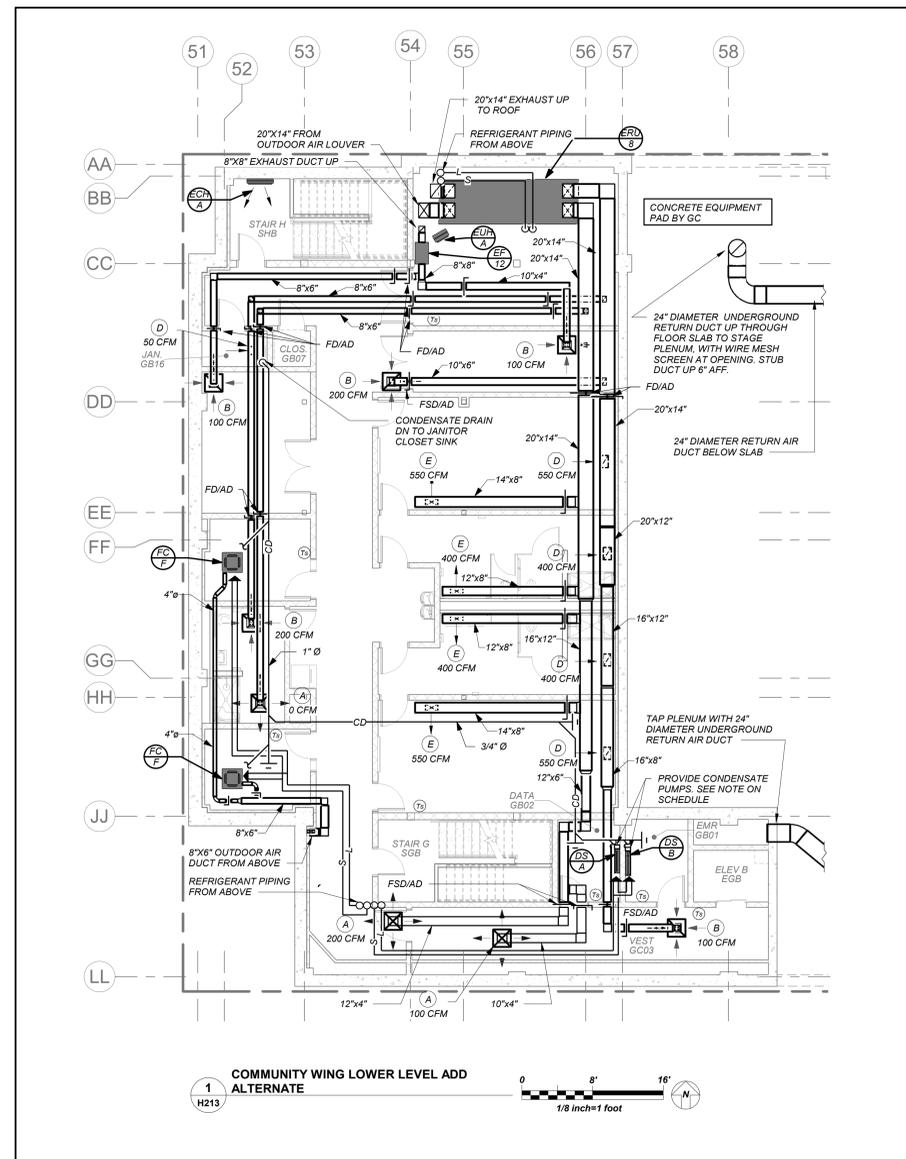
NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



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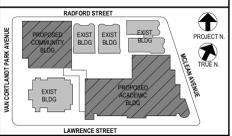


1 COMMUNITY WING LOWER LEVEL ADD ALTERNATE
H213

VRF AND DUCTLESS SPLIT SYSTEMS:
THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

DUCTWORK LINER:
ALL SUPPLY/RETURN/EXHAUST DUCTWORK SHALL BE LINED WITHIN 20 FT. OF AIR HANDLERS. EXHAUST DUCTWORK WITHIN 10 FT. OF EXTERIOR SHALL BE LINED. SEE SPECIFICATIONS.

CONDENSATE PIPING:
PROVIDE CONDENSATE PIPING FOR ALL INDOOR FAN COIL, EVAPORATOR UNITS AND AIR HANDLER CONDENSATE PANS. RUN CONDENSATE TO NEAREST FLOOR DRAIN OR JANITOR'S SINK. PROVIDE CONDENSATE PUMPS WHERE GRAVITY DRAINAGE IS NOT POSSIBLE. FOR COMPLETE AND OPERABLE SYSTEMS.
PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.



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3	07/14/2021	CONSTRUCTION DOCS-NYS
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. _____ Date _____ Issue _____
Sheet Title
Community Wing Basement - Add Alt - Gym Basement Fit-Out

Job No.	2019-1026	Date	10/18/21
Scale	AS NOTED	Drawn / Checked	BGA/BGA

Sheet Number
H213

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



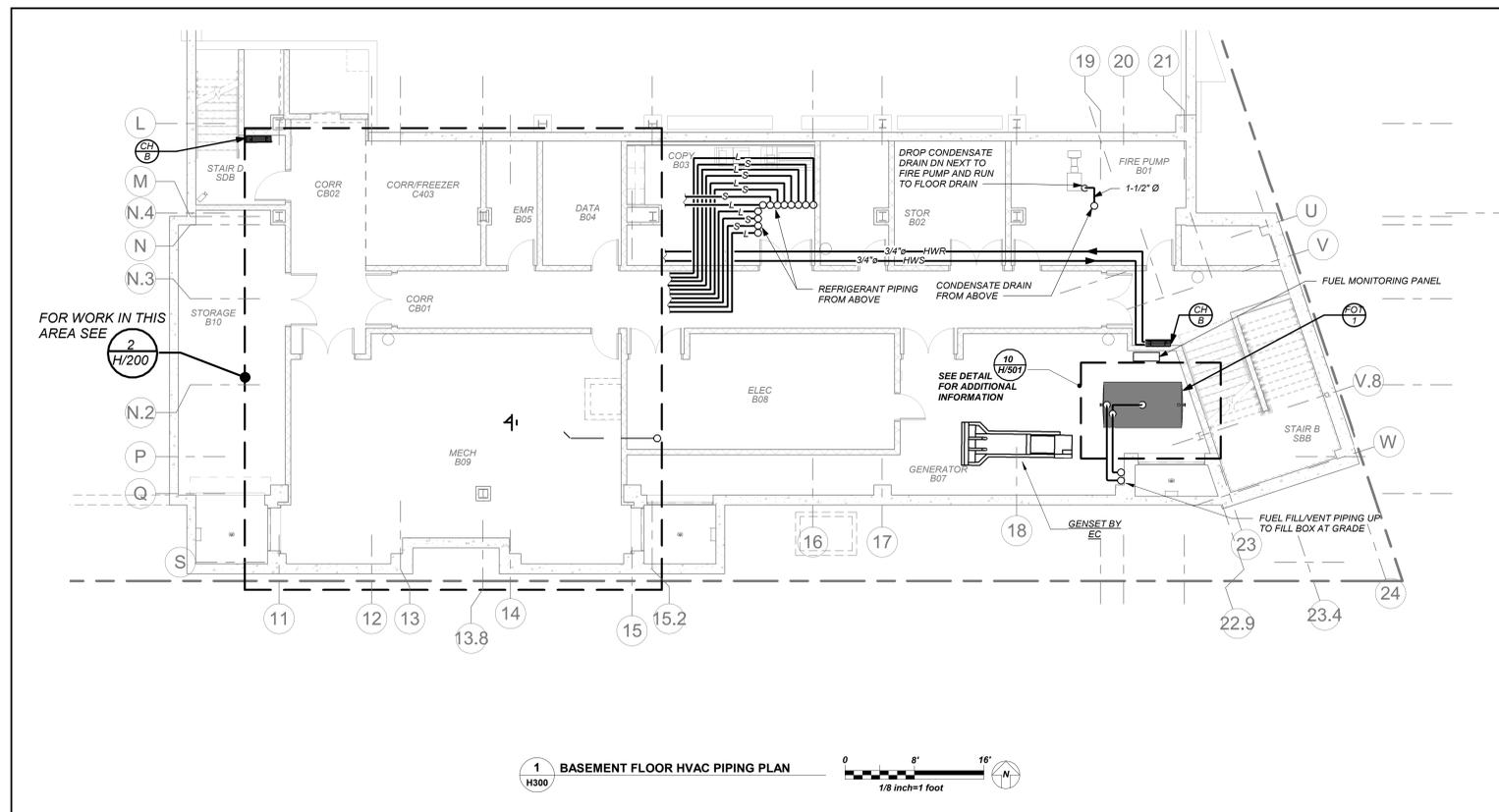
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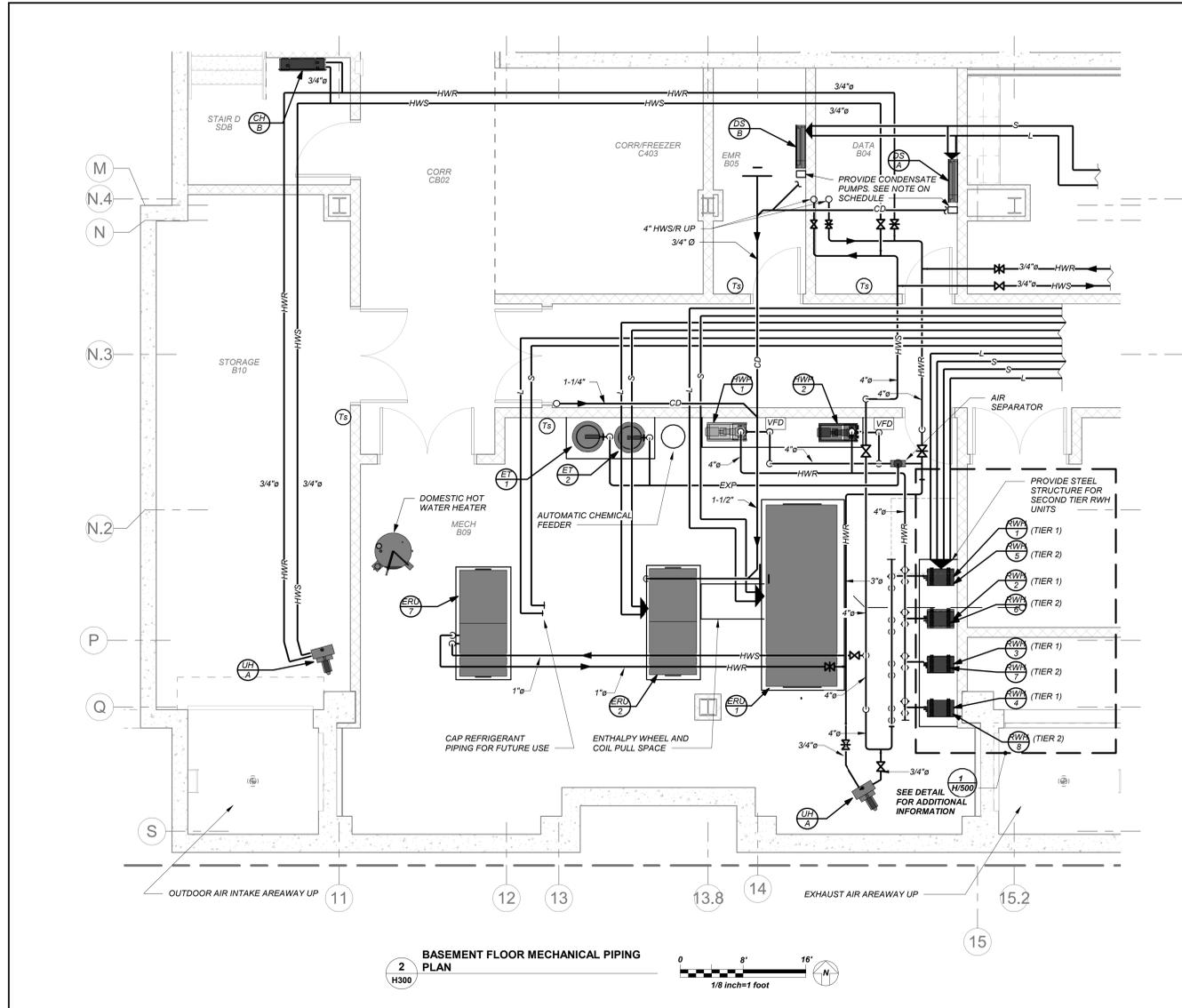


1 H300 BASEMENT FLOOR HVAC PIPING PLAN
0 8' 16'
1/8 inch=1 foot

VRF AND DUCTLESS SPLIT SYSTEMS:
THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING, SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

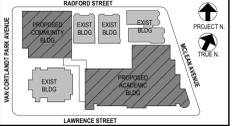
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PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.



2 H300 BASEMENT FLOOR MECHANICAL PIPING PLAN
0 8' 16'
1/8 inch=1 foot

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS



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No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS&D
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Basement Piping

Job No. 2019-1026 Date 09/02/21
Scale AS NOTED Drawn / Checked BGA/BGA
Sheet Number

H300

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



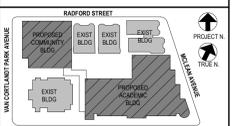
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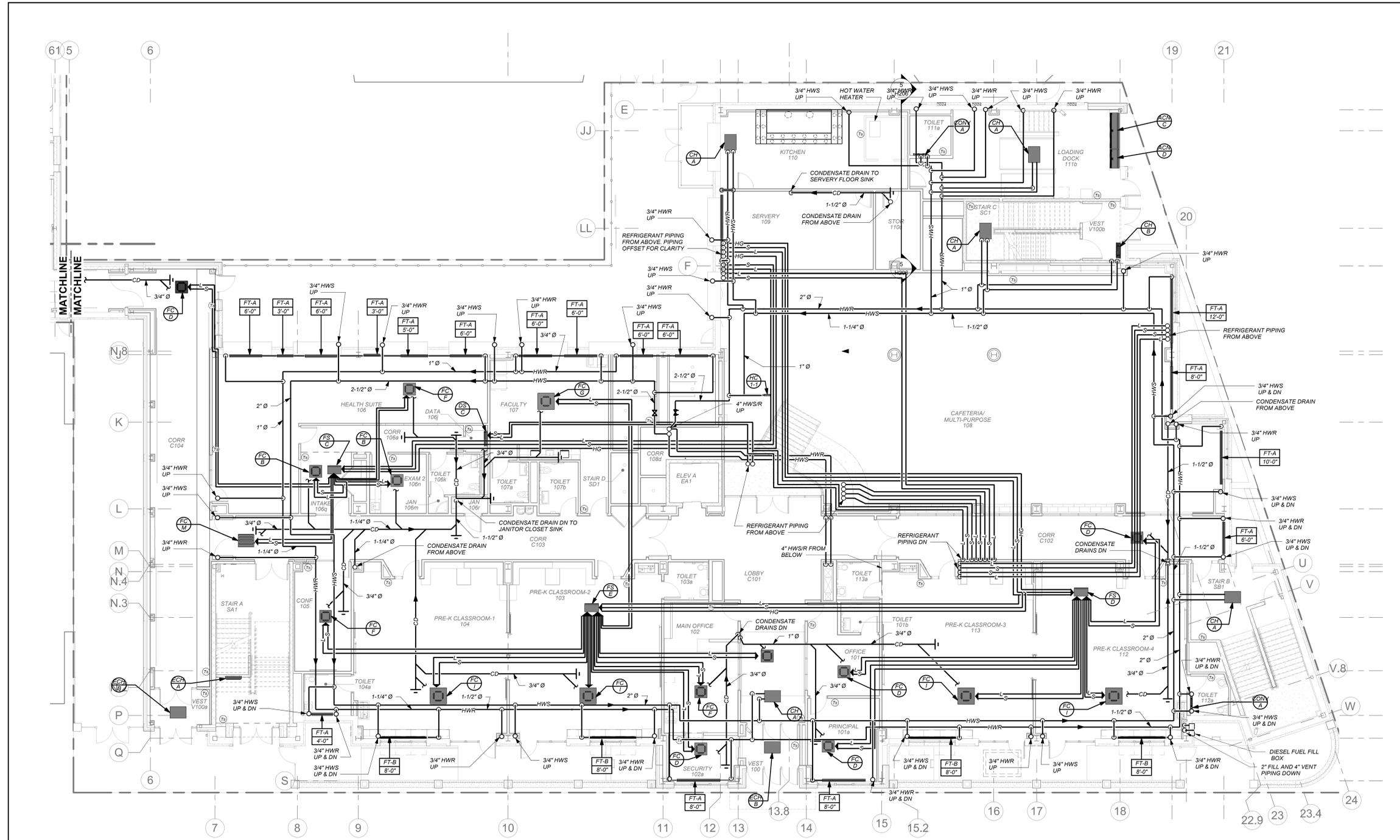
CONSTRUCTION DOCUMENTS



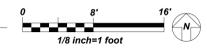
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1 1ST FLOOR HVAC PIPING PLAN
H301



HOT WATER PIPING:
HOT WATER SUPPLY AND RETURN LOOP IS LOCATED IN FIRST FLOOR CEILING. DOWNFEED TO FIRST FLOOR TERMINAL UNITS AND UPFEED TO SECOND FLOOR TERMINAL UNITS. SEE DETAIL 11903 FOR PIPING RISER DIAGRAM.

VRF AND DUCTLESS SPLIT SYSTEMS:
THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING, SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT. FOR COMPLETE AND OPERABLE SYSTEMS.

CONDENSATE PIPING:
PROVIDE CONDENSATE PIPING FOR ALL INDOOR FAN COIL EVAPORATOR UNITS AND AIR HANDLER CONDENSATE PANS. RUN CONDENSATE TO NEAREST FLOOR DRAIN OR JANITOR'S SINK. PROVIDE CONDENSATE PUMPS WHERE GRAVITY DRAINAGE IS NOT POSSIBLE. FOR COMPLETE AND OPERABLE SYSTEMS.

PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

Professional Seal

No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title
1st Floor Piping

Job No.	2019-1026	Date	08/24/21
Scale	AS NOTED	Drawn / Checked	BGA/BGA
Sheet Number	H301		

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



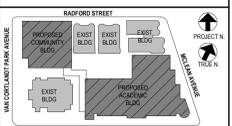
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66-23-00-01-0-346-001

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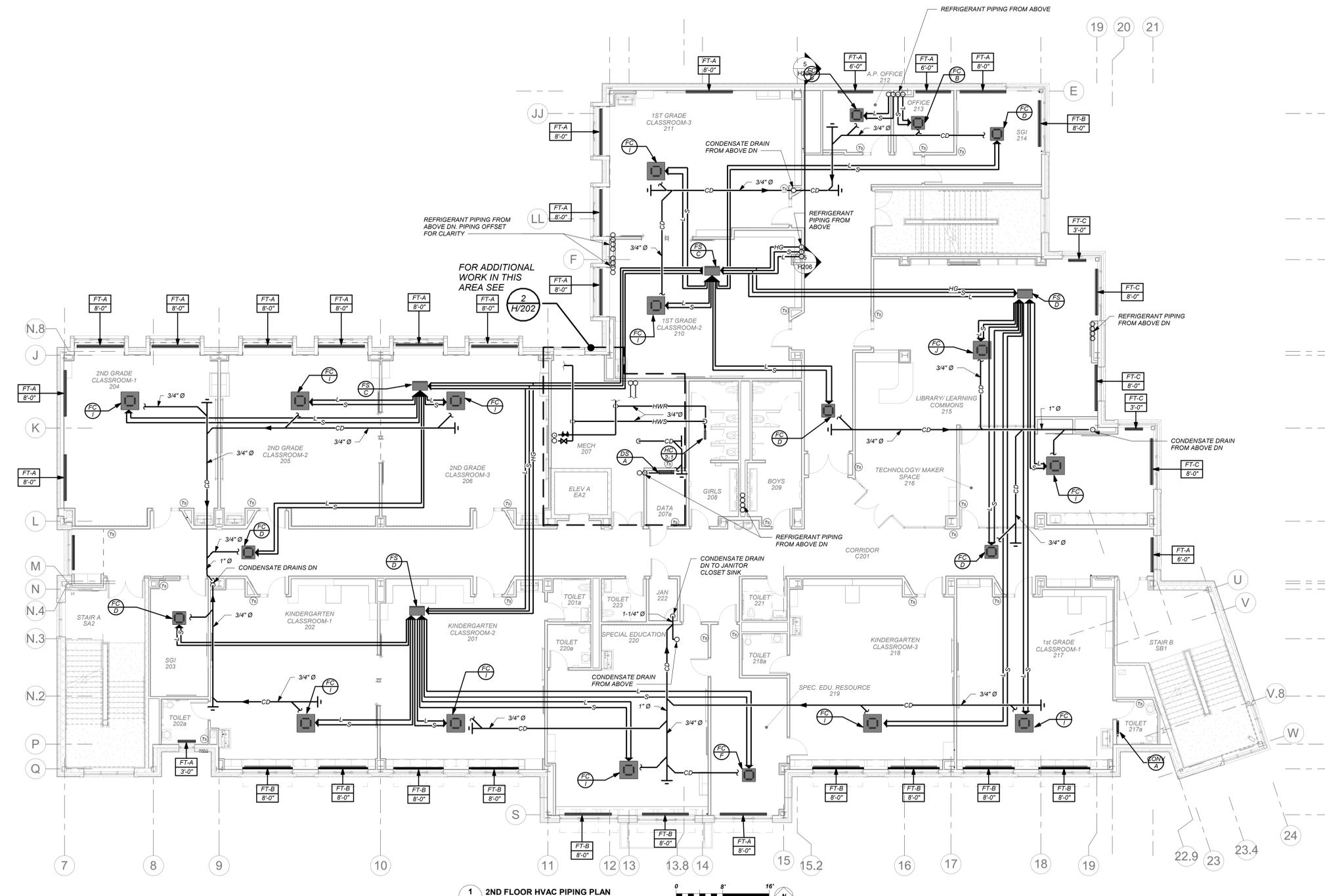
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No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

2nd Floor Piping

Job No. 2019-1026 Date 08/24/21
Scale AS NOTED Drawn / Checked BGA/BGA

Sheet Number
H302



1 H302 2ND FLOOR HVAC PIPING PLAN

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

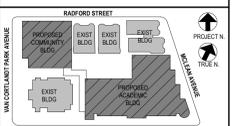
NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

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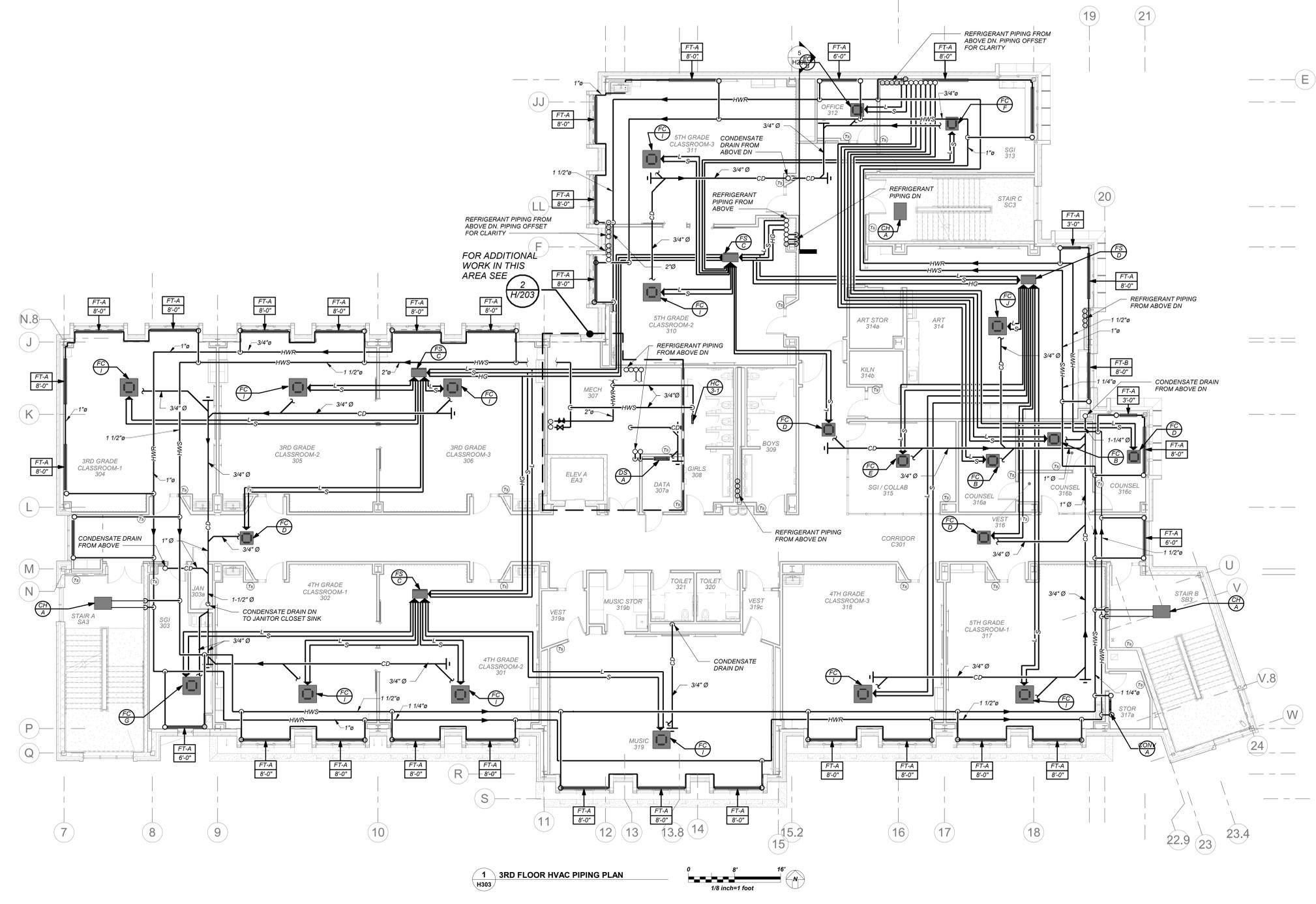
Professional Seal

No.	Date	Issue
1	08/31/2020	SCHEMATIC DESIGN
2	12/15/2020	DESIGN DEVELOPMENT
3	07/14/2021	CONSTRUCTION DOCS-NYS
4	11/01/2021	ISSUED TO BID

Sheet Title
3rd Floor Piping

Job No. 2019-1026 Date 08/24/21
Scale AS NOTED Drawn / Checked BGA/BGA
Sheet Number

H303



BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

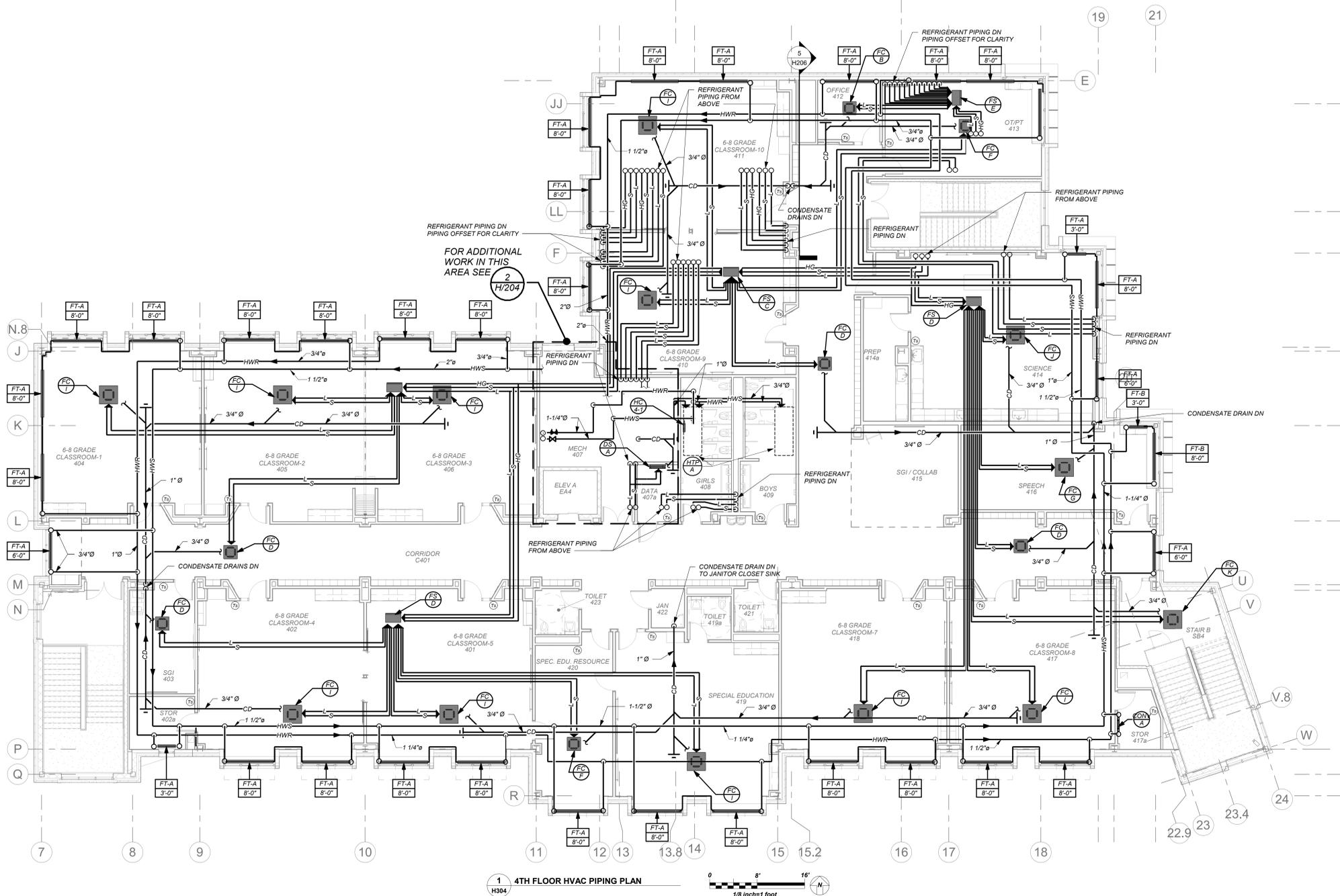
NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

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Yonkers, NY 10705



NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



1 4TH FLOOR HVAC PIPING PLAN

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

HOT WATER PIPING:
HOT WATER SUPPLY AND RETURN LOOP SHOWN ON PLAN OUTSIDE OF MECHANICAL ROOM IS LOCATED IN THIRD FLOOR CEILING BELOW. SHOWN ON THIS PLAN FOR CLARITY. UPFEED TO FOURTH FLOOR TERMINAL UNITS. SEE DETAIL 1A503 FOR PIPING RISER DIAGRAM.

VRF AND DUCTLESS SPLIT SYSTEMS:
THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

CONDENSATE PIPING:
PROVIDE CONDENSATE PIPING FOR ALL INDOOR FAN COIL, EVAPORATOR UNITS AND AIR HANDLER CONDENSATE PANS. RUN CONDENSATE TO NEAREST FLOOR DRAIN OR JANITOR'S SINK. PROVIDE CONDENSATE PUMPS WHERE GRAVITY DRAINAGE IS NOT POSSIBLE, FOR COMPLETE AND OPERABLE SYSTEMS.

PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.



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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

4th Floor Piping

Job No.	2019-1026	Date	08/24/21
Scale	AS NOTED	Drawn / Checked	BGA/BGA
Sheet Number	H304		

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



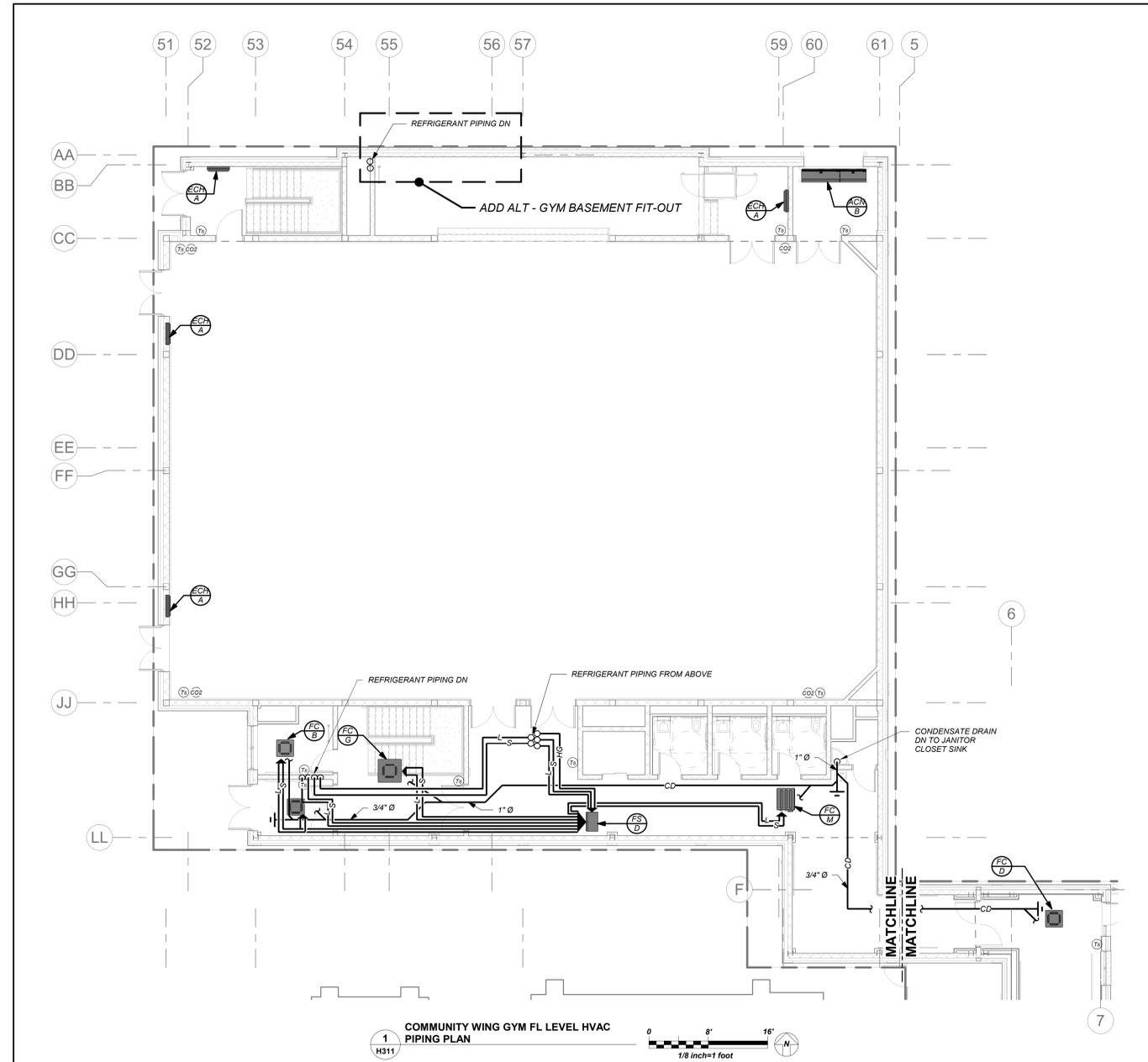
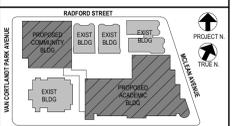
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NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

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914.328.0099 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM



1 H311 COMMUNITY WING GYM FL LEVEL HVAC PIPING PLAN

VRF AND DUCTLESS SPLIT SYSTEMS:
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3	07/14/2021	CONSTRUCTION DOCS-NYS
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. _____ Date _____ Issue _____

Sheet Title

Community Wing 1st Floor Piping

Job No. 2019-1026 Date 10/19/21
Scale AS NOTED Drawn / Checked BGA/BGA
Sheet Number

H311

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

SCHEDULE OF INDOOR ENERGY RECOVERY UNITS

MARK	BUILDING	SERVICE	LOCATION	MODEL No.	AIRFLOW CONDITIONS					SUPPLY FAN			EXHAUST FAN			ENTHALPY WHEEL			REMOTE HEAT PUMP UNIT DATA					DX HTG/CLG COIL DATA			FILTERS INTAKE RETURN	ELECTRICAL DATA			DIMENSIONS			WEIGHT LBS	REMARKS
					O.A. CFM	E.A. CFM	R.A. CFM	SAESP IN. WC	RAESP IN. WC	TYPE	CFM	T.S.P. IN. WC	HP	TYPE	CFM	T.S.P. IN. WC	HP	LA1	LA2	LA3	LA4	LA5	LA6	LA7	LA8	VOLTAGE		MCA	MOCP	L	W	H			
ERU-1	ACADEMIC	1ST FLOOR CLASSROOMS	BASEMENT MECHANICAL	ERP-1-02-EW-D-TB	2560	2560	0	0.75	3.0	PLENUM	2560	1.0	5.0	CENTR.	2560	0.75	2.0	80.3	67.4	47.8	39.9	0.25	REF	REF	REF	208/3/60	18	25	140.0	55.0	55.0	3000	REFER TO 2,3,4,5,6,7,8,9,10		
ERU-2	ACADEMIC	1ST FLOOR OFFICES	BASEMENT MECHANICAL	U-ERV-COIL-800	570	570	0	0.75	2.0	PLENUM	570	0.75	1.5	CENTR.	570	0.75	1.5	80	67.1	51.7	41.6	-	REF	REF	REF	208/3/60	15.2	20	40.0	32.0	24.0	1000	REFER TO 2,3,4,5,6,7,8,9,10		
ERU-3	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ERU-4	ACADEMIC	2ND FLOOR CLASSROOMS/OFFICES	MECHANICAL ROOM 2ND FLOOR	ERP-1-07-EW-D-TB	7500	7500	0	0.75	7.5	PLENUM	7500	1.0	10.0	CENTR.	7500	0.75	7.5	80.2	67.3	47.7	39.9	0.50	REF	REF	REF	208/3/60	55	80	140.0	86.0	92.0	5000	REFER TO 2,3,4,5,6,7,8,9,10		
ERU-5	ACADEMIC	3RD FLOOR CLASSROOMS/OFFICES	MECHANICAL ROOM 3RD FLOOR	ERP-1-07-EW-D-TB	7400	7400	0	0.75	7.5	PLENUM	7400	1.0	10.0	CENTR.	7400	0.75	7.5	80.2	67.3	47.6	39.8	0.50	REF	REF	REF	208/3/60	55	80	140.0	86.0	92.0	5000	REFER TO 2,3,4,5,6,7,8,9,10		
ERU-6	ACADEMIC	4TH FLOOR CLASSROOMS/OFFICES	MECHANICAL ROOM 4TH FLOOR	ERP-1-07-EW-D-TB	7920	7920	0	0.75	7.5	PLENUM	7920	1.0	10.0	CENTR.	7920	0.75	7.5	80.2	67.3	47.7	39.8	0.50	REF	REF	REF	208/3/60	61	80	140.0	86.0	92.0	5000	REFER TO 2,3,4,5,6,7,8,9,10		
ERU-7	ACADEMIC	BASEMENT GENERAL VENTILATION	BASEMENT MECHANICAL	U-ERV-COIL-1200	1050	1050	0	0.50	2.0	PLENUM	1050	0.75	2.0	CENTR.	1050	0.75	2.0	80	67.1	51.7	41.6	-	REF	REF	REF	208/3/60	18	25	40.0	32.0	24.0	1000	REFER TO 2,3,4,5,6,7,8,9,10		
ERU-8	COMMUNITY	BASEMENT TOILETS/LOCKERS	BASEMENT MECHANICAL	ERP-E-02-FP-D-TB	2400	2400	0	0.75	3.0	PLENUM	2400	0.75	3.0	CENTR.	2400	0.75	2.0	80	67.2	47.7	40.1	**	REF	REF	REF	208/3/60	17	25	140.0	55.0	55.0	3000	REFER TO 2,3,4,5,6,7,8,9,10		

NOTES:

- AS MANUFACTURED BY "ANNEXAIR". (KLIMA NEW YORK 914 255-4390)
- FROST CONTROL BY V.F.D.
- DESIGN AIR CONDITION: SUMMER O.A. (95F/75F) R.A. (75F/63F); WINTER O.A. (0F/0F) R.A. (70F/53F).
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S SUPERVISION FOR FIELD INSTALLATION AND START-UP.
- PROVIDE CUSTOM INDOOR ERU UNIT WITH STAGED DIRECT EXPANSION HEATING AND COOLING, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, ENERGY RECOVERY WHEEL (**ERU-8 SHALL HAVE STATIC PLATE CORE WITH BYPASS), DIRTY FILTER CONTACTS, BLOWER SHAFT AND BELT FOR SELECTED STATIC USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), VRF TYPE DIRECT EXPANSION COIL FOR HEAT PUMP DUTY, STAINLESS STEEL DRAIN PAN, HINGED ACCESS PANELS, BAGNET COMPARABLE AUTOMATED CONTROLS (AS NOTED). PROVIDE FULL ECONOMIZER, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER.
- COIL SHALL BE VRF TYPE.
- SPLIT-SYSTEM IS VRF TYPE HEAT PUMP.
- REFRIGERANT R-410A.
- AS MANUFACTURED BY "ENERGY WALL".
- PROVIDE INDOOR ERU UNIT WITH HOT WATER HEATING COIL, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, ENERGY RECOVERY CORE WITH BYPASS, DIRTY FILTER CONTACTS, DIRECT DRIVE BLOWER FOR SELECTED STATIC PRESSURE USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), DIRECT EXPANSION VRF TYPE COIL FOR HEAT PUMP DUTY, ACCESS PANELS, BAGNET COMPARABLE AUTOMATED CONTROLS (AS NOTED). PROVIDE FULL ECONOMIZER, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER.
- ADD ALTERNATE - GYM BASEMENT FITOUT.
- ERU SHALL BE PROVIDED IN SECTIONS THAT CAN BE RIGGED INTO THE BUILDING THROUGH NORMAL OR TEMPORARY OPENINGS. COORDINATE WITH GC AND BUILDING CONSTRUCTION PHASES.
- PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM. KITS SHALL BE FACTORY INSTALLED.
- PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM. KITS SHALL BE FIELD INSTALLED.

SCHEDULE OF OUTDOOR ENERGY RECOVERY UNITS

MARK	BUILDING	SERVICE	LOCATION	MODEL No.	AIRFLOW CONDITIONS					SUPPLY FAN			EXHAUST FAN			ENTHALPY WHEEL			REMOTE HEAT PUMP UNIT DATA					DX HTG/CLG COIL DATA			FILTERS INTAKE RETURN	ELECTRICAL DATA			DIMENSIONS			WEIGHT LBS	REMARKS
					O.A. CFM	E.A. CFM	R.A. CFM	SAESP IN. WC	RAESP IN. WC	TYPE	CFM	T.S.P. IN. WC	HP	TYPE	CFM	T.S.P. IN. WC	HP	LA1	LA2	LA3	LA4	LA5	LA6	LA7	LA8	VOLTAGE		MCA	MOCP	L	W	H			
ERU-9	ACADEMIC	CAFETERIA	ROOF	ERP-E-09-EW05-D	5400	5400	4600	0.75	7.5	PLENUM	10000	1.5	10.0	PLENUM	10000	1.0	7.5	80.1	67.2	47.6	39.8	0.25	REF	REF	REF	208/3/60	61	70	207	94.0	94.0	6,800	REFER TO 2,3,4,5,6,7,8,9,10		
ERU-10	ACADEMIC	1ST, 2ND, 3RD, 4TH FLR. GANG TOILETS	ROOF	ERP-E-05-FP-D	5900	5900	0	1.5	1.0	PLENUM	5500	1.5	3.0	PLENUM	5500	1.0	5.0	79.8	67.4	47.7	39.8	-	REF	REF	REF	208/3/60	40	50	96	56	54	3,000	REFER TO 2,3,4,5,6,7,8,9,10		
ERU-11	COMMUNITY	GYMNASIUM	ROOF	ERP-E-12-EW05-D	6520	6520	3740	1.5	1.0	PLENUM	14,000	1.5	10.0	PLENUM	14,000	1.0	7.5	80.5	67.6	47.7	39.6	0.25	REF	REF	REF	208/3/60	88	100	207	104	105	7,000	REFER TO 2,3,4,5,6,7,8,9,10		

NOTES:

- AS MANUFACTURED BY "ANNEXAIR". (KLIMA NEW YORK 914 255-4390)
- FROST CONTROL BY V.F.D.
- DESIGN AIR CONDITION: SUMMER O.A. (95F/75F) R.A. (75F/63F); WINTER O.A. (0F/0F) R.A. (70F/53F).
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S SUPERVISION FOR FIELD INSTALLATION AND START-UP.
- PROVIDE CUSTOM ROOFTOP ERU UNIT WITH STAGED HEATING AND COOLING, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, ENERGY RECOVERY WHEEL (**ERU-2 SHALL HAVE A STATIC PLATE HEAT EXCHANGER), DIRTY FILTER CONTACTS, SHAFT AND BELT FOR SELECTED STATIC USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, POWERED CONVENIENCE OUTLET, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), STAINLESS STEEL DRAIN PAN, HINGED ACCESS PANELS, BAGNET COMPARABLE AUTOMATED CONTROLS (AS NOTED). PROVIDE FIELD INSTALLED FULL ECONOMIZER, INTAKE AND EXHAUST HOODS, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER.
- COIL SHALL BE VRF TYPE.
- SPLIT-SYSTEM IS VRF TYPE HEAT PUMP.
- REFRIGERANT R-410A.
- PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM. KITS SHALL BE FACTORY INSTALLED.
- INSTALL ERU ON FULL CURB SUPPORT. COORDINATE CURB HEIGHT WITH GC FOR MINIMUM 12" ABOVE ROOF.
- PROVIDE CUSTOM ROOFTOP ERU UNIT WITH, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, STATIC PLATE ENERGY RECOVERY HEAT EXCHANGER, DIRTY FILTER CONTACTS, SHAFT AND BELT FOR SELECTED STATIC USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, POWERED CONVENIENCE OUTLET, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), HINGED ACCESS PANELS, BAGNET COMPARABLE AUTOMATED CONTROLS (AS NOTED). PROVIDE FIELD INSTALLED FULL ECONOMIZER, INTAKE AND EXHAUST HOODS, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER.

SCHEDULE OF ELECTRIC AIR CURTAINS

MARK	MODEL No.	CAPACITY DATA				ELECTRIC SERVICE	PHYSICAL DATA		REMARKS
		BTU/HR	AMPS	KW	CFM		LxWxH (IN)	WEIGHT (LBS)	
ERU-12	E100	13,650	11.1	4.0	1088	208/3/60	42X12X21	120	REFER TO 2,3,4,5,6,7,8,9,10
ERU-13	E100	13,650	11.1	4.0	1088	208/3/60	62X12X21	140	REFER TO 2,3,4,5,6,7,8,9,10
ERU-14	E150	27,300	22.2	8.0	1854	208/3/60	82X12X21	160	REFER TO 2,3,4,5,6,7,8,9,10
ERU-15	E150	13,650	11.1	4.0	1854	208/3/60	42X12X21	120	REFER TO 2,3,4,5,6,7,8,9,10

NOTES:

- AS MANUFACTURED BY "WING". (KLIMA NEW YORK 914 255-4390)
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE UNIT MOUNTED SPEED CONTROLLER AND ALL MOUNTING STEEL AND HARDWARE.
- QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS.
- PROVIDE ALL POWER RELAYS AND BAGNET CONTROLLER.

SCHEDULE OF ELECTRIC CABINET HEATERS

MARK	MODEL No.	CAPACITY DATA			MOTOR WATTS	ELECTRIC SERVICE	PHYSICAL DATA		MTG.	REMARKS
		BTU/HR	AMPS	KW			LxWxH (IN)	WEIGHT (LBS)		
ERU-16	MFG008	27,368	38.5	8.0	50	208/1/60	32X23X4	50	WALL	REFER TO 2,3,4,5,6,7,8,9,10
ERU-17	FFCHRNV	17,060	24.0	5.0	50	208/1/60	23X23X7	50	CLG.	REFER TO 2,3,4,5,6,7,8,9,10

NOTES:

- AS MANUFACTURED BY "MARKLEY BERKO".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE UNIT MOUNTED VARIABLE SPEED CONTROLLER AND MOUNTING HARDWARE.
- QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS.
- PROVIDE ALL POWER RELAYS AND BAGNET CONTROLLER.

SCHEDULE OF ELECTRIC UNIT HEATERS

MARK	MODEL No.	CAPACITY DATA			MOTOR HP	ELECTRIC SERVICE	PHYSICAL DATA		MTG.	REMARKS
		BTU/HR	AMPS	KW			LxWxH (IN)	WEIGHT (LBS)		
ERU-18	HER 30C 310	10,200	8.3	3.0	1/40	208/3/60	14X12X17	50	CEILING	REFER TO 2,3,4,5,6,7,8,9,10

NOTES:

- AS MANUFACTURED BY "MODINE".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE UNIT MOUNTED VARIABLE SPEED CONTROLLER AND MOUNTING HARDWARE.
- QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS.
- PROVIDE ALL POWER RELAYS AND BAGNET CONTROLLER.

SCHEDULE OF VRF REFRIGERANT TO WATER HEAT EXCHANGERS

MARK	BUILDING	SERVICE	LOCATION	MODEL No.	SOURCE	CAPACITIES										REMARKS
						GPM	LOAD		E.W.T. F.	L.W.T. F.	P.O. FT.WG.	ELECTRIC SERVICE	MCA	MOCP		
							COOLING BTU/HR	HEATING BTU/HR								
ERU-19	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K244	REFRIGERANT	24	-	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2	
ERU-20	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K244	REFRIGERANT	24	-	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2	
ERU-21	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K244	REFRIGERANT	24	-	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2	
ERU-22	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K244	REFRIGERANT	24	-	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2	
ERU-23	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K244	REFRIGERANT	24	-	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2	
ERU-24	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K244	REFRIGERANT	24	-	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2	
ERU-25	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K244	REFRIGERANT	24	-	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2	

NOTES:

- AS MANUFACTURED BY "LG.". (KLIMA NEW YORK 914 255-4390)
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S SUPERVISION FOR FIELD INSTALLATION AND START-UP.
- THE VRF SYSTEM SHALL BE ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BAGNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BAGNET IP OR MODBUS TCP PROTOCOL, AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LOWWORKS GATEWAYS.

SCHEDULE OF EXPANSION TANKS

MARK	SERVICE	LOCATION	MODEL No.	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	REMARKS
ET-1	HOT WATER HEATING LOOP	BASEMENT MECHANICAL	800-L-150	211	70	REFER TO 2,3,4,5,6,7,8,9,10
ET-2	HOT WATER HEATING LOOP	BASEMENT MECHANICAL	800-L-150	211	70	REFER TO 2,3,4,5,6,7,8,9,10

NOTES:

- AS MANUFACTURED BY "AMTROL".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- ASME RATED, VERTICAL MOUNTING.
- FILL PRESSURE = 12 PSI, OPERATING PRESSURE = 30 PSI.

SCHEDULE OF PUMPS

MARK	SERVICE	LOCATION	MODEL No.	GPM	HEAD FT.H ₂ O	RPM	MOTOR HP	ELECTRIC SERVICE	REMARKS
ERU-26	HOT WATER HEATING LOOP	BASEMENT MECHANICAL	61510 2.5BB	200	72.1	1750	10	208/3/60	REFER TO 2,3,4,5,6,7,8,9,10
ERU-27	HOT WATER HEATING LOOP	BASEMENT MECHANICAL	61510 2.5BB	200	72.1	1750	10	208/3/60	REFER TO 2,3,4,5,6,7,8,9,10

NOTES:

- AS MANUFACTURED BY "BELL & GOSSETT".
- INSTALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE VFD SPEED CONTROLLER.
- 200 GPM CAPACITY, 167 GPM NORMAL SYSTEM FLOW RATE.

SCHEDULE OF INDOOR DUCTLESS AIR HANDLING UNITS

MARK	BUILDING	SERVICE	MODEL No.	MOUNTING LOCATION	CAPACITY		PHYSICAL DATA			ELECTRICAL DATA		REMARKS	
					COOLING (MBH)	CFM	UNIT WEIGHT (POUNDS)	L	D	H	SERVICE		MCA
ERU-28	ACADEMIC & COMMUNITY	DATA ROOM	ARNU123JA4	HIGH WALL	12.0	300	30	33	8	12	208/1/60	0.31	REFER TO 2,3,4,5,6,7,8,9,10
ERU-29	ACADEMIC & COMMUNITY	EMR ROOM	ARNU073JA4	HIGH WALL	7.0	255	30	33	8	12	208/1/60	0.31	REFER TO 2,3,4,5,6,7,8,9,10
ERU-30	ACADEMIC	DATA ROOM	ARNU053JA4	HIGH WALL	5.0	200	30	33	8	12	208/1/60	0.31	REFER TO 2,3,4,5,6,7,8,9,10

NOTES:

- AS MANUFACTURED BY "LG.". (KLIMA NEW YORK 914 255-4390)
- CAPACITIES BASED ON 40F SST, 95F AMBIENT.
- PROVIDE MINI SPLIT CONDENSATE PUMP, LITTLE GIANT #VCMX-20UL, 120V/1PH.
- REFRIGERANT R410 A.
- INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- UNIT SHALL BE CONTROLLED VIA MFR. BAGNET NETWORK CONTROLLER. BMS SHALL INTERFACE WITH CONTROLLER.

SCHEDULE OF OUTDOOR HEAT PUMP UNITS

SCHEDULE OF VENTILATION AIR FANS

MARK	SERVICE	LOCATION	TYPE	MODEL No. ①	CFM	TOT. S.P. IN H ₂ O	HP	ELECTRIC SERVICE	REMARKS
SP-1	VENTILATION AIR	COMMUNITY FIRST FLOOR CEILING	IN-LINE FAN	CSP-A510-VG	220	0.50	1/3	120/1/60	REFER TO ②③④
SP-2	VENTILATION AIR	ACADEMIC FIRST FLOOR CEILING	IN-LINE FAN	CSP-A510-VG	250	0.50	1/3	120/1/60	REFER TO ②③④

NOTES

- AS MANUFACTURED BY "GREENHECK".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- INTAKE PLENUM SHALL BE INSULATED.
- PROVIDE FAN WITH VARI-GREEN MOTOR SPEED CONTROL, OR EQUAL.

SCHEDULE OF CABINET HEATERS

MARK	TYPE UNIT	MODEL N.S. ①	CAPACITY DATA ②				MOTOR WAITS	MOTOR RPM	ELECTRIC SERVICE	REMARKS
			MBH	CFM	GPM	FD, FT.				
CH-4	CEILING MTD.	RC 1170 06	20.6	335	2.0	0.25	1/15	1050	120/1/60	REFER TO ②③④⑤⑥
CH-5	RECESSED WALL	RW 1120 06	20.6	335	2.0	0.25	1/15	1050	120/1/60	REFER TO ②③④⑤⑥

NOTES

- AS MANUFACTURED BY "STERLING".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- CAPACITIES BASED ON LOW SPEED FAN SETTING, AND 112 A.W.T.
- PROVIDE 2 ROW COIL, THROWAWAY FILTERS, INTEGRAL SPEED CONTROL, DISCONNECT SWITCH, REMOTE WALL SENSOR CONNECTED TO BMS, GASKET AND PERMA LAP FRAME. COORDINATE FINISH AND COLOR WITH ARCHITECT.
- UNIT DIMENSIONS 36"x25"x9.5", WEIGHT 150 LBS.
- PROVIDE WITH HOT WATER RETURN AQUASTAT. AQUASTAT SHALL NOT ALLOW FAN TO OPERATE AT WATER TEMPERATURE BELOW 98 DEGREES F.

SCHEDULE OF DUCT MOUNTED HOT WATER HEATING COILS

MARK	BUILDING	SERVICE	HIC DENSITY BTU/AIR	EAT. (°F)	LAT. (°F)	ERT. (°F)	UNIT. (°F)	GPM	CFM	COIL FACE AREA SQ.FT.	COIL FACE VELOC. FPM	ROWS	REMARKS
HC-1	ACADEMIC	FIRST FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2	REFER TO ②③④⑤⑥⑦⑧
HC-2	ACADEMIC	SECOND FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2	REFER TO ②③④⑤⑥⑦⑧
HC-3	ACADEMIC	THIRD FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2	REFER TO ②③④⑤⑥⑦⑧
HC-4	ACADEMIC	FOURTH FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2	REFER TO ②③④⑤⑥⑦⑧

NOTES

- AS MANUFACTURED BY "NATIONWIDE COILS INC."
- AIR PRESSURE DROP ACROSS COIL SHALL NOT EXCEED 0.30" S.P.
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- COIL SHALL BE MINIMUM 2 ROWS WITH MINIMUM OF 8 FINS PER INCH.
- 5/8" TUBE AND ALUMINUM FINS.
- GALVANIZED PITCHED CASING.
- AS MANUFACTURED BY NATIONWIDE.
- THE WATER COIL IS SIZED TO HANDLE OUTDOOR AIR QUANTITIES AT 100 PERCENT (WITH ENERGY RECOVERY UNIT IN OPERATION) OF OCCUPANCY WITHOUT HAVING TO RESORT TO CLOSING OUTDOOR AIR INTAKE DAMPERS ON A "DESIGN HEATING DAY" TO PREVENT FREEZE-UP.

SCHEDULE OF CEILING RADIANT PANELS

MARK	MODEL No. ①	SIZE			CAPACITY DATA ②		REMARKS		
		WIDTH (IN.)	LENGTH (IN.)	FACE AREA (FT ²)	BTUH	GPM PRESS. DROP @ HEAD (FT)			
LRP-A	TYPE LRP	24	96	8	4 MINIMUM	3500	0.5	1 FT. MAX	REFER TO ③④⑤

NOTES

- AS MANUFACTURED BY "STERLING".
- ENTERING WATER TEMPERATURE 122°F, 20" ΔT.
- INSTALL PER THE MANUFACTURER'S INSTRUCTIONS.
- CEILING GRID MOUNTED PANEL.

SCHEDULE OF REGISTERS AND DIFFUSERS

MARK	TYPE	SERVICE	MODEL No. ①	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	TYPE	REMARKS
A	CEILING DIFFUSER	SUPPLY	SCD	4-WAY	OPPOSED BLADE	PER ARCH.	LAY IN	REFER TO ②③④
B	CEILING REGISTER	RETURN	635	-	-	-	LAY IN	REFER TO ②③④⑤
C	CEILING REGISTER	EXHAUST	635	-	-	-	LAY IN	REFER TO ②③④⑤
D	SIDEWALL REGISTER	EXHAUST	96	-	-	-	SURFACE	REFER TO ②③④⑤⑥
E	SIDEWALL REGISTER	SUPPLY	920	DOUBLE DEFLECTION	-	-	SURFACE	REFER TO ②③④⑤⑥
F	CIRCULAR DIFFUSER	SUPPLY	RCDA	360 DEGREE ADJUSTABLE THROW	BUTTERFLY	-	FREE HANG	REFER TO ②③④⑤⑥⑦
G	SIDEWALL REGISTER	RETURN	96	-	OPPOSED BLADE	-	SURFACE	REFER TO ②③④⑤⑥⑦

NOTES

- AS MANUFACTURED BY "PRICE".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE MOUNTING FRAME COMPATIBLE W/ MOUNTING SURFACE. COORDINATE ALL BORDER TYPES, COLORS, FINISHES AND DIMENSIONS WITH ARCHITECT.
- STEEL, HEAVY DUTY TYPE.
- EQUALIZER GRID.

SUPPLY NECK SIZE PER CFM RANGE (NOT TO EXCEED 300 fpm)				RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 875 fpm)			
50	100	300	500	50	150	250	400
70	120	350	600	70	170	270	450
90	140	400	700	90	190	290	500
110	160	450	800	110	210	310	550
130	180	500	900	130	230	330	600
150	200	550	1000	150	250	350	650
170	220	600	1100	170	270	370	700
190	240	650	1200	190	290	390	750
210	260	700	1300	210	310	410	800
230	280	750	1400	230	330	430	850
250	300	800	1500	250	350	450	900
270	320	850	1600	270	370	470	950
290	340	900	1700	290	390	490	1000
310	360	950	1800	310	410	510	1050
330	380	1000	1900	330	430	530	1100
350	400	1050	2000	350	450	550	1150
370	420	1100	2100	370	470	570	1200
390	440	1150	2200	390	490	590	1250
410	460	1200	2300	410	510	610	1300
430	480	1250	2400	430	530	630	1350
450	500	1300	2500	450	550	650	1400
470	520	1350	2600	470	570	670	1450
490	540	1400	2700	490	590	690	1500
510	560	1450	2800	510	610	710	1550
530	580	1500	2900	530	630	730	1600
550	600	1550	3000	550	650	750	1650
570	620	1600	3100	570	670	770	1700
590	640	1650	3200	590	690	790	1750
610	660	1700	3300	610	710	810	1800
630	680	1750	3400	630	730	830	1850
650	700	1800	3500	650	750	850	1900
670	720	1850	3600	670	770	870	1950
690	740	1900	3700	690	790	890	2000
710	760	1950	3800	710	810	910	2050
730	780	2000	3900	730	830	930	2100
750	800	2050	4000	750	850	950	2150
770	820	2100	4100	770	870	970	2200
790	840	2150	4200	790	890	990	2250
810	860	2200	4300	810	910	1010	2300
830	880	2250	4400	830	930	1030	2350
850	900	2300	4500	850	950	1050	2400
870	920	2350	4600	870	970	1070	2450
890	940	2400	4700	890	990	1090	2500
910	960	2450	4800	910	1010	1110	2550
930	980	2500	4900	930	1030	1130	2600
950	1000	2550	5000	950	1050	1150	2650
970	1020	2600	5100	970	1070	1170	2700
990	1040	2650	5200	990	1090	1190	2750
1010	1060	2700	5300	1010	1110	1210	2800
1030	1080	2750	5400	1030	1130	1230	2850
1050	1100	2800	5500	1050	1150	1250	2900
1070	1120	2850	5600	1070	1170	1270	2950
1090	1140	2900	5700	1090	1190	1290	3000
1110	1160	2950	5800	1110	1210	1310	3050
1130	1180	3000	5900	1130	1230	1330	3100
1150	1200	3050	6000	1150	1250	1350	3150
1170	1220	3100	6100	1170	1270	1370	3200
1190	1240	3150	6200	1190	1290	1390	3250
1210	1260	3200	6300	1210	1310	1410	3300
1230	1280	3250	6400	1230	1330	1430	3350
1250	1300	3300	6500	1250	1350	1450	3400
1270	1320	3350	6600	1270	1370	1470	3450
1290	1340	3400	6700	1290	1390	1490	3500
1310	1360	3450	6800	1310	1410	1510	3550
1330	1380	3500	6900	1330	1430	1530	3600
1350	1400	3550	7000	1350	1450	1550	3650
1370	1420	3600	7100	1370	1470	1570	3700
1390	1440	3650	7200	1390	1490	1590	3750
1410	1460	3700	7300	1410	1510	1610	3800
1430	1480	3750	7400	1430	1530	1630	3850
1450	1500	3800	7500	1450	1550	1650	3900
1470	1520	3850	7600	1470	1570	1670	3950
1490	1540	3900	7700	1490	1590	1690	4000
1510	1560	3950	7800	1510	1610	1710	4050
1530	1580	4000	7900	1530	1630	1730	4100
1550	1600	4050	8000	1550	1650	1750	4150
1570	1620	4100	8100	1570	1670	1770	4200
1590	1640	4150	8200	1590	1690	1790	4250
1610	1660	4200	8300	1610	1710	1810	4300
1630	1680	4250	8400	1630	1730	1830	4350
1650	1700	4300	8500	1650	1750	1850	4400
1670	1720	4350	8600	1670	1770	1870	4450
1690	1740	4400	8700	1690	1790	1890	4500
1710	1760	4450	8800	1710	1810	1910	4550
1730	1780	4500	8900	1730	1830	1930	4600
1750	1800	4550	9000	1750	1850	1950	4650
1770	1820	4600	9100	1770	1870	1970	4700
1790	1840	4650	9200	1790	1890	1990	4750
1810	1860	4700	9300	1810	1910	2010	4800
1830	1880	4750	9400	1830	1930	2030	4850
1850	1900	4800	9500	1850	1950	2050	4900
1870	1920	4850	9600	1870	1970	2070	4950
1890	1940	4900	9700	1890	1990	2090	5000
1910	1960	4950	9800	1910	2010	2110	5050
1930	1980	5000	9900	1930	2030	2130	5100
1950	2000	5050	10000	1950	2050	2150	5150
1970	2020	5100	10100	1970	2070	2170	5200
1990	2040	5150	10200	1990	2090	2190	5250
2010	2060	5200	10300	2010	2110	2210	5300
2030	2080	5250	10400	2030	2130	2230	5350
2050	2100	5300	10500	2050	2150	2250	5400
2070	2120	5350	10600	2070	2170	2270	5450
2090	2140	5400	10700	2090	2190	2290	5500
2110	2160	5450	10800	2110	2210	2310	5550
2130	2180	5500	10900	2130	2230	2330	5600
2150	2200	5550	11000	2150	2250	2350	5650
2170	2220	5600	11100	2170	2270	2370	5700
2190	2240	5650	11200	2190	2290	2390	5750
2210	2260	5700	11300	2210	2310	2410	5800
2230	2280	5750	11400	2230	2330	2430	5850
2250	2300	5800	11500				

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE
YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLEAN AVENUE
YONKERS, NY 10705



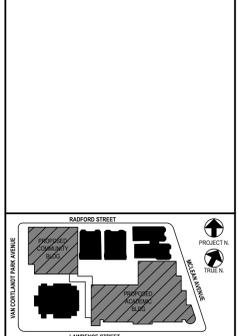
NYS SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



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No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Job No.	2019-1026	Date	11/18/20
Scale	AS NOTED	Drawn / Checked	BGA/BGA
Sheet Number	H402		

SCHEDULES

Job No.	2019-1026	Date	11/18/20
Scale	AS NOTED	Drawn / Checked	BGA/BGA
Sheet Number	H402		

ACADEMIC BUILDING THIRD FLOOR - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A	B	C	D	E	F	G	H	I	J
		ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A+B)+1000#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F+C)(A+D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
4th Grade Classroom- 2 301	CLASSROOM (AGES 9+)	805	35	10	0.12	0	29	387	0.8	483	0
4th Grade Classroom- 1 302	CLASSROOM (AGES 9+)	810	35	10	0.12	0	29	387	0.8	484	0
SGI 303	OFFICE SPACE	275	5	5	0.06	0	2	27	0.8	33	0
Janitor's Closet 303a	JANITOR CLOSETS, TRASH ROOMS, RECYCLING	30	0	0	0	1	0	0	0.8	0	30
3rd Grade Classroom- 1 304	CLASSROOM (AGES 9+)	790	35	10	0.12	0	28	375	0.8	469	0
3rd Grade Classroom- 2 305	CLASSROOM (AGES 9+)	820	35	10	0.12	0	29	388	0.8	486	0
3rd Grade Classroom- 3 306	CLASSROOM (AGES 9+)	855	35	10	0.12	0	30	403	0.8	503	0
Mech 307	WOODMETAL SHOP	450	20	10	0.18	0.5	9	171	0.8	214	225
Data 307a	COMPUTER LAB	65	25	10	0.12	0	2	28	0.8	35	0
Girls Toilet 308	CELL W/ TOILET	210	25	5	0.12	1	6	55	0.8	69	210
Boys Toilet 309	CELL W/ TOILET	215	25	5	0.12	1	6	56	0.8	70	215
5th Grade Classroom- 2 310	CLASSROOM (AGES 9+)	790	35	10	0.12	0	28	375	0.8	469	0
5th Grade Classroom- 3 311	CLASSROOM (AGES 9+)	845	35	10	0.12	0	30	401	0.8	502	0
Office 312	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
SGI 313	OFFICE SPACE	440	5	5	0.06	0	3	41	0.8	52	0
Art 314	ART CLASSROOM	1020	20	10	0.18	0.7	21	394	0.8	492	714
Storage 314a	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	90	2	5	0.06	0	1	10	0.8	13	0
Kin 314b	ART CLASSROOM	50	20	10	0.18	0.7	1	19	0.8	24	35
SGI/Collob 315	OFFICE SPACE	300	5	5	0.06	0	2	28	0.8	35	0
Vestibule 316	LOBBIES/PREFUNCTION	80	30	7.5	0.06	0	3	27	0.8	34	0
Counseling 316a	OFFICE SPACE	155	5	5	0.06	0	1	14	0.8	18	0
Counseling 316b	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
Counseling 316c	OFFICE SPACE	150	5	5	0.06	0	1	14	0.8	18	0
5th Grade Classroom- 1 317	CLASSROOM (AGES 9+)	795	35	10	0.12	0	28	375	0.8	469	0
4th Grade Classroom- 3 318	CLASSROOM (AGES 9+)	805	35	10	0.12	0	29	387	0.8	483	0
Music 319	MUSIC/THEATRE/DANCE	990	35	10	0.06	0	35	409	0.8	512	0
Vestibule 319a	LOBBIES/PREFUNCTION	65	30	7.5	0.06	0	2	19	0.8	24	0
Music Storage 319b	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	105	2	5	0.06	0	1	11	0.8	14	0
Vestibule 319c	LOBBIES/PREFUNCTION	55	30	7.5	0.06	0	2	18	0.8	23	0
Toilet 320	CELL W/ TOILET	65	25	5	0.12	1	2	18	0.8	22	65
Toilet 321	CELL W/ TOILET	65	25	5	0.12	1	2	18	0.8	22	65
Corridor C301	CORRIDORS	2029	0	0	0.06	0	0	122	0.8	152	0
Corridor C302	CORRIDORS	435	0	0	0.06	0	0	26	0.8	33	0

ACADEMIC BUILDING FOURTH FLOOR - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A	B	C	D	E	F	G	H	I	J
		ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A+B)+1000#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F+C)(A+D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
6-8 Grade Classroom- 5 401	CLASSROOM (AGES 9+)	775	35	10	0.12	0	28	373	0.8	466	0
6-8 Grade Classroom- 4 402	CLASSROOM (AGES 9+)	775	35	10	0.12	0	28	373	0.8	466	0
Storage 402a	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	100	2	5	0.06	0	1	11	0.8	14	0
SGI 403	OFFICE SPACE	200	5	5	0.06	0	1	17	0.8	21	0
6-8 Grade Classroom- 1 404	CLASSROOM (AGES 9+)	770	35	10	0.12	0	27	362	0.8	453	0
6-8 Grade Classroom- 2 405	CLASSROOM (AGES 9+)	780	35	10	0.12	0	28	374	0.8	467	0
6-8 Grade Classroom- 3 406	CLASSROOM (AGES 9+)	830	35	10	0.12	0	30	400	0.8	500	0
Mech 407	WOODMETAL SHOP	440	20	10	0.18	0.5	9	169	0.8	212	220
Data 407a	COMPUTER LAB	65	25	10	0.12	0	2	28	0.8	35	0
Girls Toilet 408	CELL W/ TOILET	200	25	5	0.12	1	5	49	0.8	61	200
Boys Toilet 409	CELL W/ TOILET	205	25	5	0.12	1	6	55	0.8	68	205
6-8 Grade Classroom- 9 410	CLASSROOM (AGES 9+)	780	35	10	0.12	0	28	374	0.8	467	0
6-8 Grade Classroom- 10 411	CLASSROOM (AGES 9+)	835	35	10	0.12	0	30	400	0.8	500	0
Office 412	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
OTPT 413	DAYCARE SICKROOM	435	25	10	0.18	0	11	188	0.8	235	0
Science 414	SCIENCE LABORATORIES	940	25	10	0.18	1	24	409	0.8	512	940
Prep 414a	SCIENCE LABORATORIES	150	25	10	0.18	1	4	67	0.8	84	150
SGI/Collob 415	OFFICE SPACE	300	5	5	0.06	0	2	28	0.8	35	0
Speech 416	CLASSROOM (AGES 9+)	495	35	10	0.12	0	18	239	0.8	289	0
6-8 Grade Classroom- 8 417	CLASSROOM (AGES 9+)	770	35	10	0.12	0	27	362	0.8	453	0
6-8 Grade Classroom- 7 418	CLASSROOM (AGES 9+)	770	35	10	0.12	0	27	362	0.8	453	0
Special Education 419	CLASSROOM (AGES 9+)	770	35	10	0.12	0	27	362	0.8	453	0
Toilet 419a	CELL W/ TOILET	55	25	5	0.12	1	2	17	0.8	21	55
Special Ed. Resource 420	CLASSROOM (AGES 9+)	360	35	10	0.12	0	13	173	0.8	217	0
Toilet 421	CELL W/ TOILET	60	25	5	0.12	1	2	17	0.8	22	60
Janitor's Closet 422	JANITOR CLOSETS, TRASH ROOMS, RECYCLING	35	0	0	0	1	0	0	0.8	0	35
Toilet 423	CELL W/ TOILET	55	25	5	0.12	1	2	17	0.8	21	55
Corridor C401	CORRIDORS	2785	0	0	0.06	0	0	167	0.8	209	0

ACADEMIC BUILDING BASEMENT - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A	B	C	D	E	F	G	H	I	J
		ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A+B)+1000#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F+C)(A+D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
Fire Pump B01	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	280	2	5	0.06	0	1	22	0.8	27	0
Storage B02	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	305	2	5	0.06	0	1	23	0.8	29	0
Copy B03	COMPUTER LAB	295	25	10	0.12	0	8	115	0.8	144	0
Generator B07	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	700	2	5	0.06	0	2	52	0.8	65	0
Electric B08	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	395	2	5	0.06	0	1	29	0.8	36	0
Mechanical Room B09	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	965	2	5	0.06	0	2	68	0.8	85	0
Storage B10	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	400	2	5	0.06	0	1	29	0.8	36	0
Corridor CB01	CORRIDORS	580	0	0	0.06	0	0	35	0.8	44	0
Corridor CB02	CORRIDORS	255	0	0	0.06	0	0	15	0.8	19	0

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

COMMUNITY BUILDING LOWER LEVEL - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES											
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A*B)+1000#P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F*C)+(A*D)=CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
P.E. Office GB03	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
Toilet GB04	CELL W/ TOILET	110	25	5	0.12	1	3	28	0.8	35	110
Coach's Office GB05	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
Storage GB06	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	255	2	5	0.06	0	1	20	0.8	25	0
Mechanical Room GB07	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	420	2	5	0.06	0	1	30	0.8	38	0
Storage GB08	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	160	2	5	0.06	0	1	15	0.8	18	0
Girls Locker Room GB09	LOCKER ROOMS FOR ATHLETIC, INDUSTRIAL, AND HEALTHCARE	345	0	0	0	0.5	0	0	0.8	0	173
Girls Toilet GB10	CELL W/ TOILET	225	25	5	0.12	1	6	57	0.8	71	225
Boys Toilet GB11	CELL W/ TOILET	220	25	5	0.12	1	6	56	0.8	71	220
Boys Locker Room GB12	LOCKER ROOMS FOR ATHLETIC, INDUSTRIAL, AND HEALTHCARE FACILITIES	345	0	0	0	0.5	0	0	0.8	0	173
Vestibule GC01	CORRIDORS	290	0	0	0.06	0	0	17	0.8	22	0

COMMUNITY BUILDING GYM FLOOR LEVEL - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES											
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A*B)+1000#P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F*C)+(A*D)=CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
Corridor GC01	CORRIDORS	927	0	0	0.06	0	0	56	0.8	70	0
Security Office G102	OFFICE SPACE	95	5	5	0.06	0	1	11	0.8	13	0
Toilet G107	CELL W/ TOILET	58	25	5	0.12	1	2	17	0.8	21	58
Toilet 2	OFFICE SPACE	58	5	5	0.06	0	1	8	0.8	11	0
Toilet 3	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	58	2	5	0.06	0	1	8	0.8	11	0
Janitor Closet G107	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	37	2	5	0.06	0	1	7	0.8	9	0
Gym/Auditorium G103	MULTIPURPOSE ASSEMBLY	5890	120	5	0.06	0	707	3888	0.8	4861	0
Stage G104	LOCKER ROOMS FOR ATHLETIC, INDUSTRIAL, AND HEALTHCARE FACILITIES	467	0	0	0	0.5	0	0	0.8	0	234

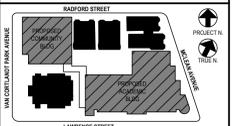
COMMUNITY BUILDING UPPER LEVEL - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES											
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A*B)+1000#P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F*C)+(A*D)=CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
Gym/Auditorium G103	MULTIPURPOSE ASSEMBLY	5940	120	5	0.06	0	713	3921	0.8	4902	0
Stage G104	STAGES, STUDIOS	490	70	10	0.06	0	35	379	0.8	474	0

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE
YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLEAN AVENUE
YONKERS, NY 10705



NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

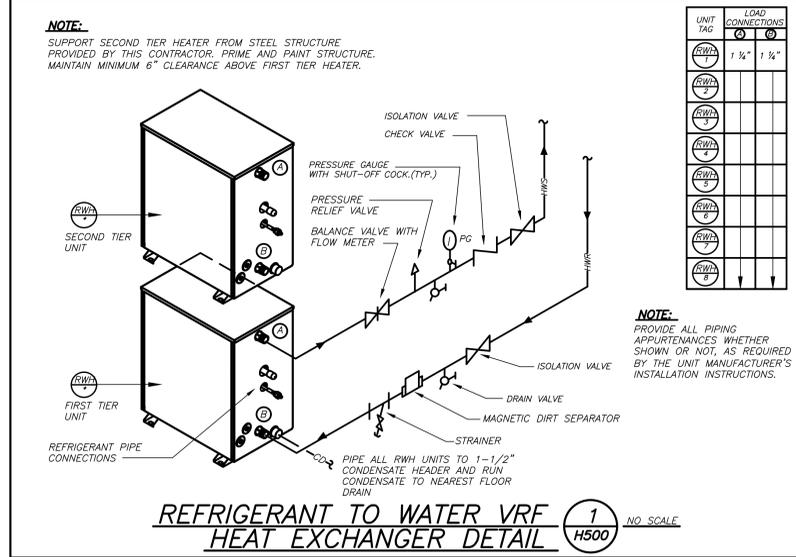
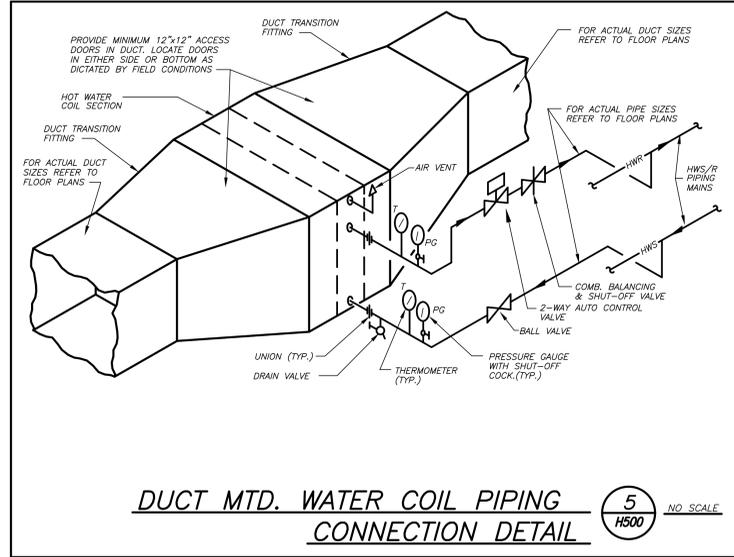
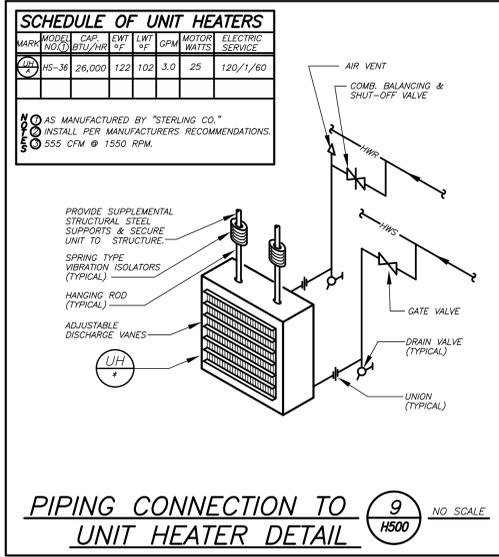
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Job No. 2019-1026 Date 11/18/20
Scale AS NOTED Drawn / Checked BGA/BGA

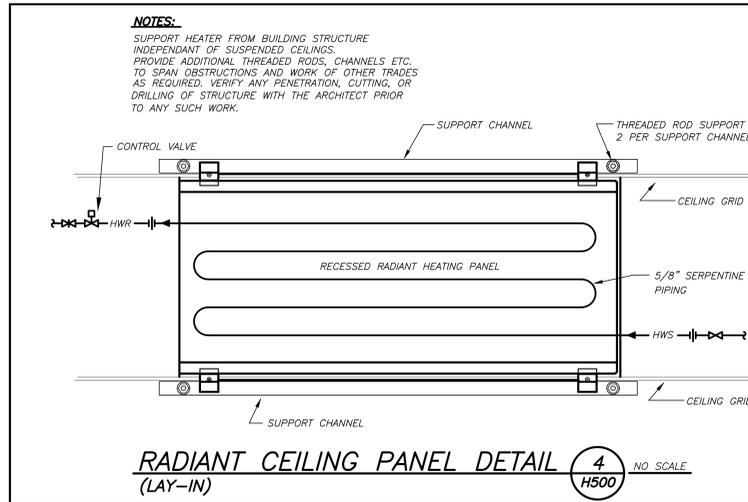
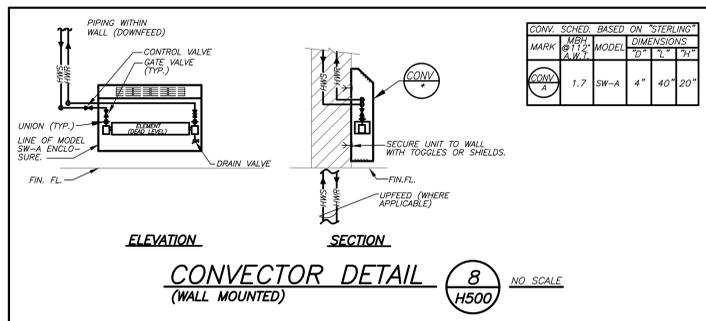
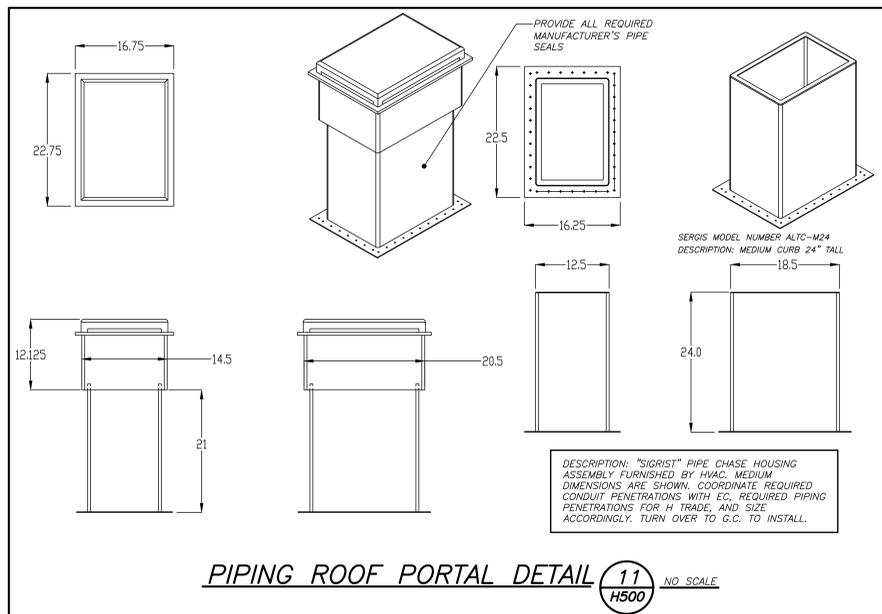
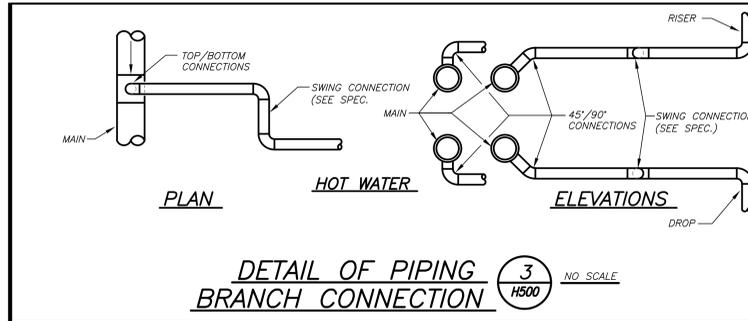
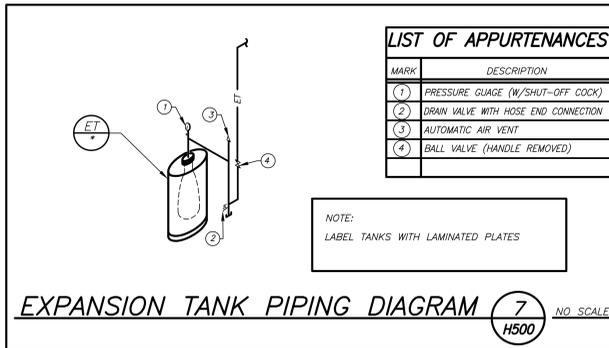
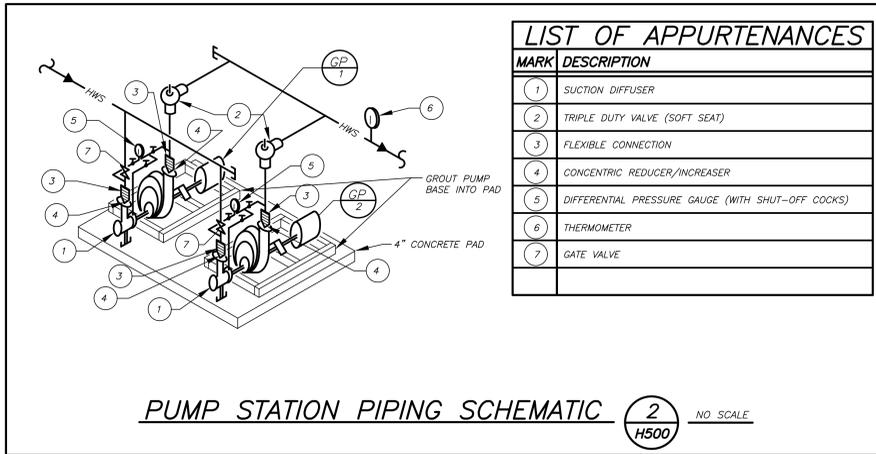
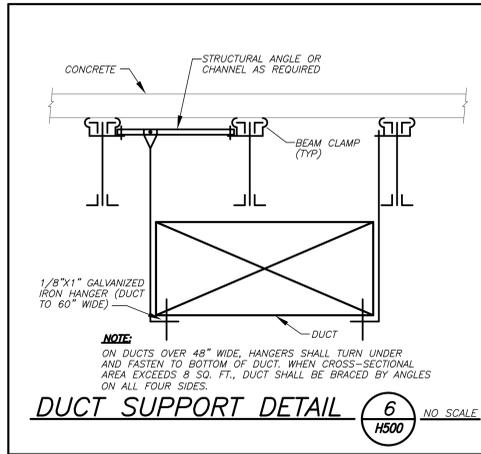
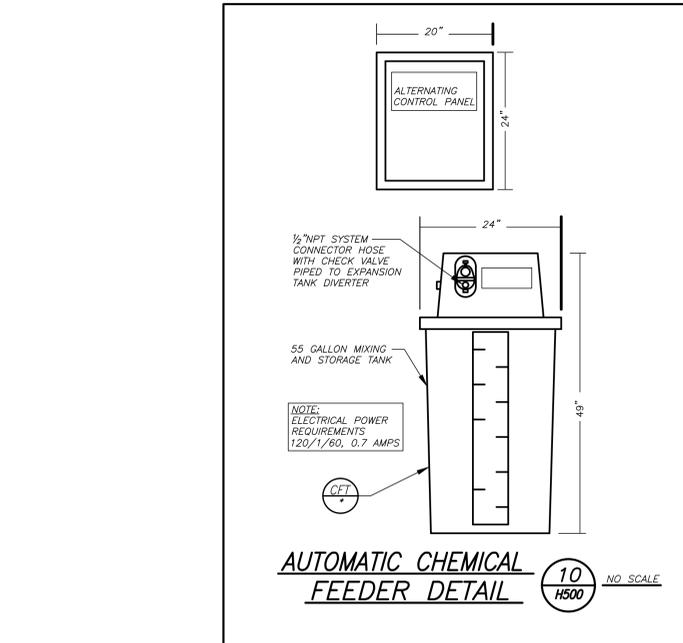
Sheet Number

H403

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS



UNIT TAG	LOAD CONNECTIONS
9	1 1/2" 1 1/2"
5	
1	
9	
5	
1	
9	
5	
1	
9	
5	
1	



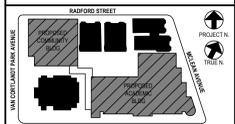
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P.914.686.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS

bga
BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
99 MARBLE AVE. PLEASANTVILLE, NY 10570
914.326.6999 GENERAL@BGAINC.COM WWW.BGAINC.COM



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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

DETAILS

Job No.	Date
2019-1026	11/18/20

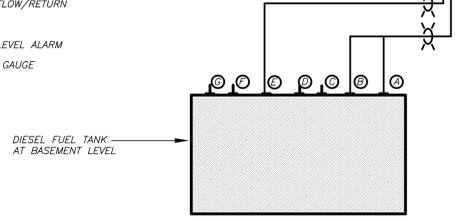
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AS NOTED	BGA/BGA

Sheet Number

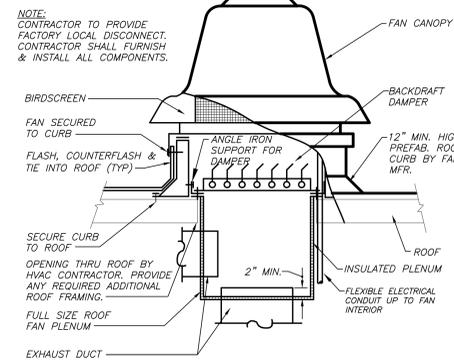
H500

LEGEND - EMERGENCY GENERATOR

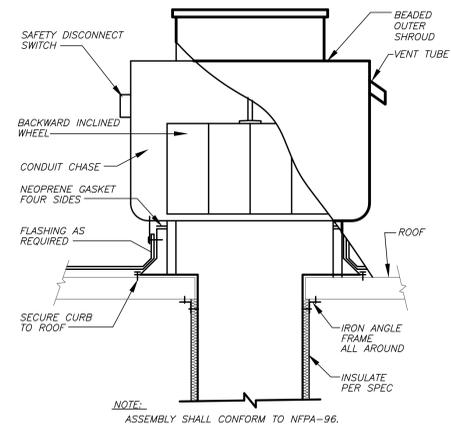
- ① 3" EMERGENCY VENT
- ② 2" NORMAL VENT
- ③ DIESEL FUEL SUPPLY (WITH DROP TUBE)
- ④ DIESEL FUEL OVERFLOW/RETURN
- ⑤ 2" TANK FILL
- ⑥ GAUGE/HIGH-LOW LEVEL ALARM
- ⑦ MECHANICAL LEVEL GAUGE



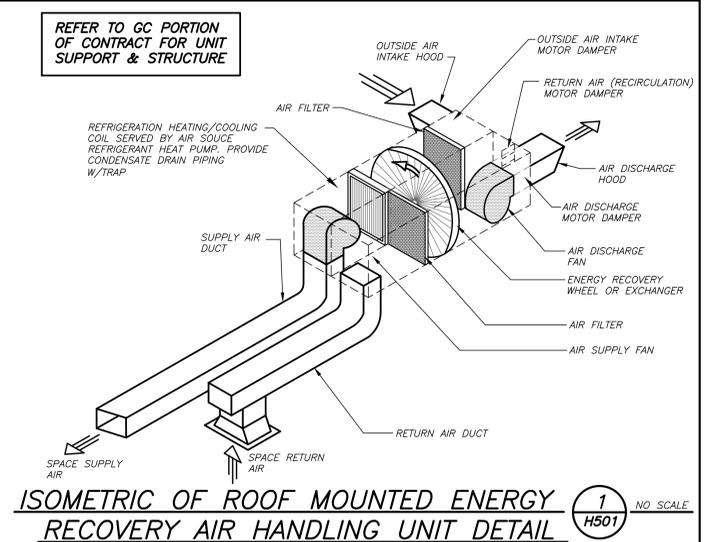
ABOVE GRADE DIESEL FUEL TANK DETAIL (10) H501 NO SCALE



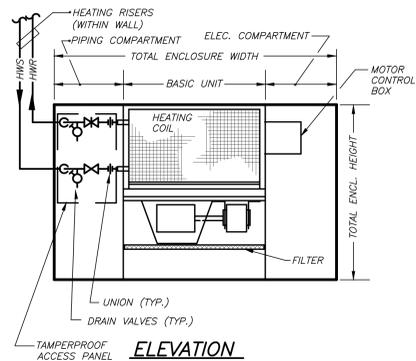
ROOF EXHAUST FAN DETAIL (6) H501 NO SCALE



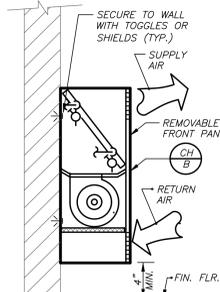
UPBLAST EXHAUST FAN DETAIL (4) H501 NO SCALE



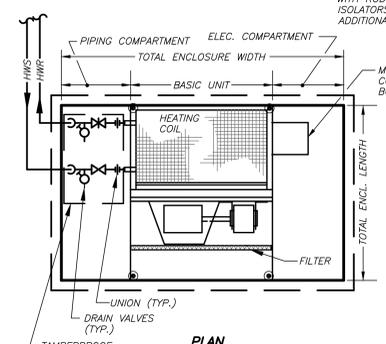
ISOMETRIC OF ROOF MOUNTED ENERGY RECOVERY AIR HANDLING UNIT DETAIL (1) H501 NO SCALE



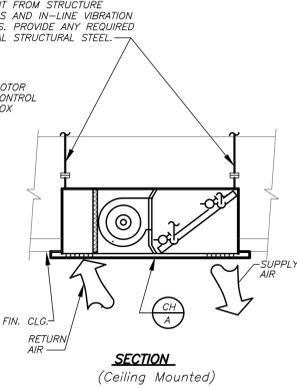
CABINET HEATER DETAIL (11) H501 NO SCALE



SECTION (SURFACE MOUNTED)

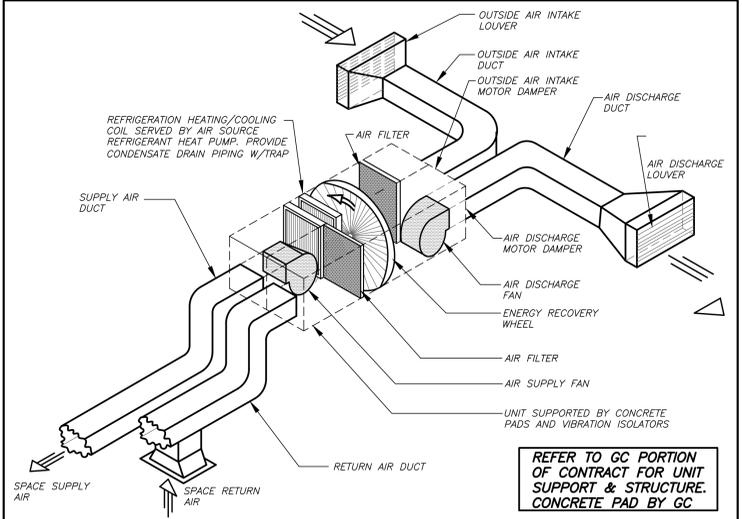


PLAN

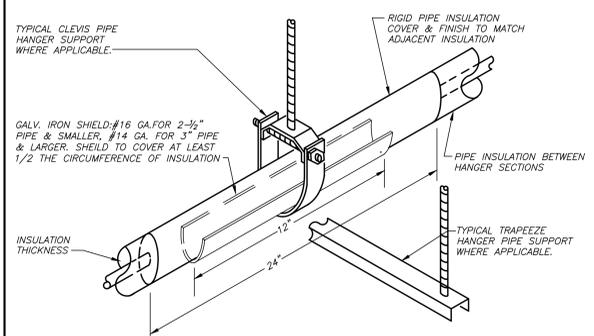


SECTION (Ceiling Mounted)

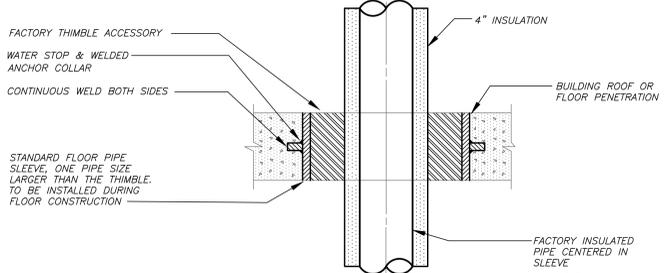
CABINET HEATER DETAIL (5) H501 NO SCALE



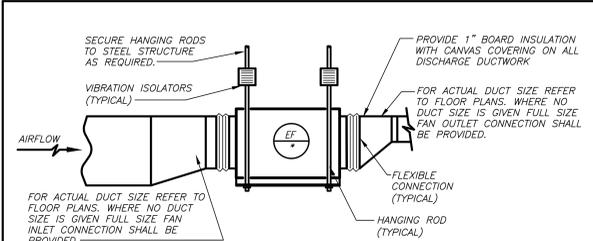
ISOMETRIC OF INDOOR ENERGY RECOVERY AIR HANDLING UNIT DETAIL (2) H501 NO SCALE



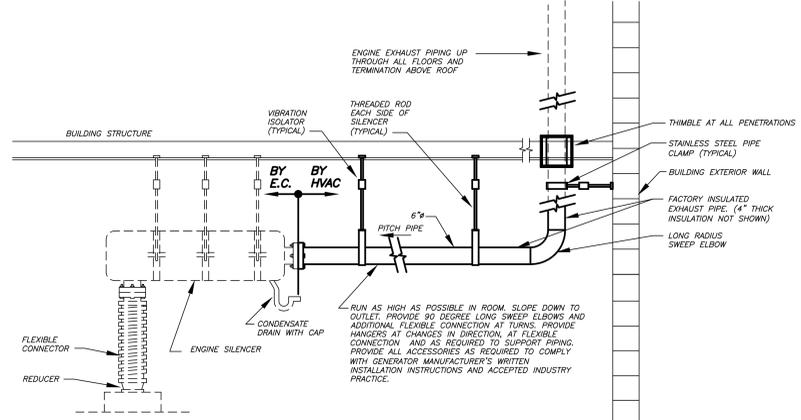
INSULATED PIPE HANGER DETAIL (7) H501 NO SCALE



GENERATOR EXHAUST PIPE FLOOR/ROOF PENETRATION DETAIL (8) H501 NO SCALE



INLINE FAN DETAIL (9) H501 NO SCALE



GENERATOR EXHAUST SYSTEM DETAIL (3) H501 NO SCALE

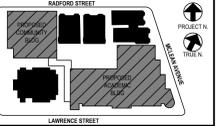
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285 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P.914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS

bga
BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
99 MARBLE AVE. PLASANTVILLE, NY 10570
914.326.6999 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM



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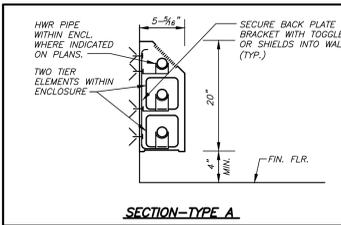
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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

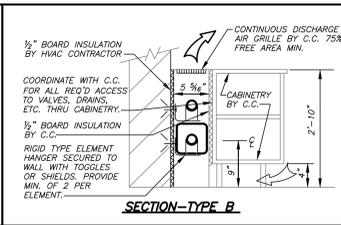
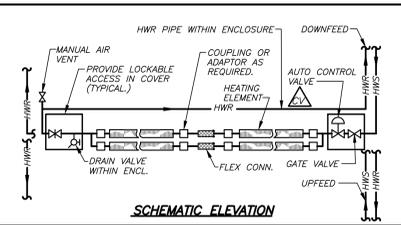
DETAILS

Job No. 2019-1026 Date 11/18/20
Scale AS NOTED Drawn / Checked BCABGA
Sheet Number

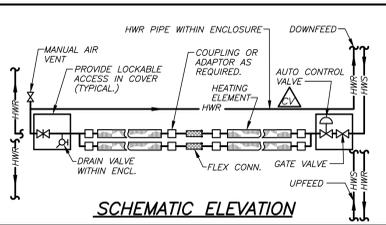
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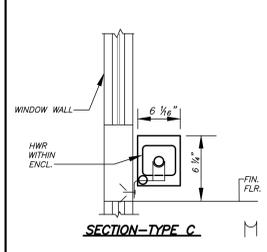
FT-A DATA
 REFER TO FLOOR PLANS FOR TYPE
 AS MANUFACTURED BY 'STERLING' SLOPING TOP-STYLE S, 1" COPPER PIPE 4-84" X 4-94" SQ. ALUM. FINS, 900 BTU/HR/L.F. @ 112 DEG. F. A.W.T., 50 FINS/FT.
 REFER TO FLOOR PLANS FOR LENGTH



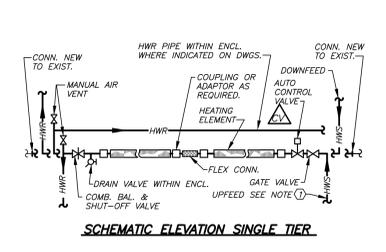
FT-B DATA
 REFER TO FLOOR PLANS FOR TYPE
 AS MANUFACTURED BY 'STERLING' 1-1/4" COPPER PIPE 4-84" X 4-94" SQ. ALUM. FINS, APPROX. 900 BTU/HR/L.F. @ 112 DEG. F. A.W.T., 50 FINS/FT.
 REFER TO FLOOR PLANS FOR LENGTH



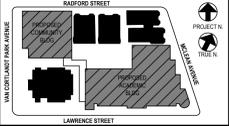
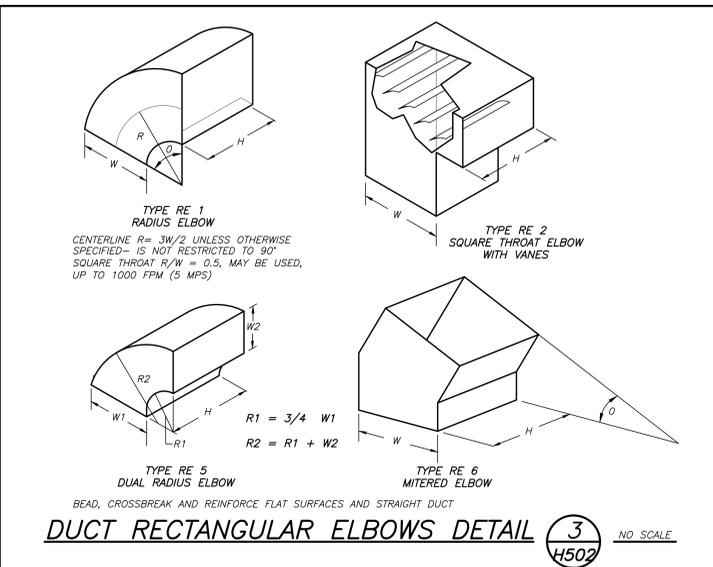
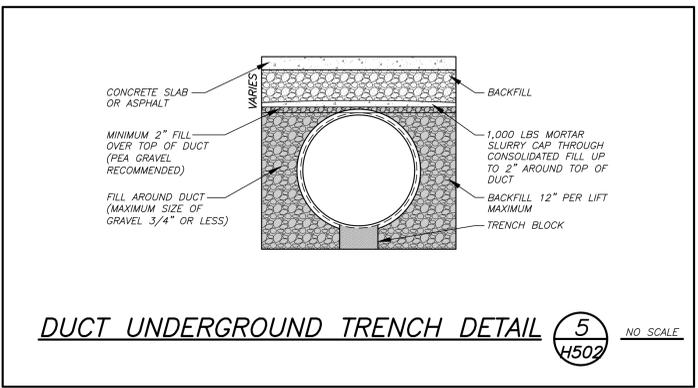
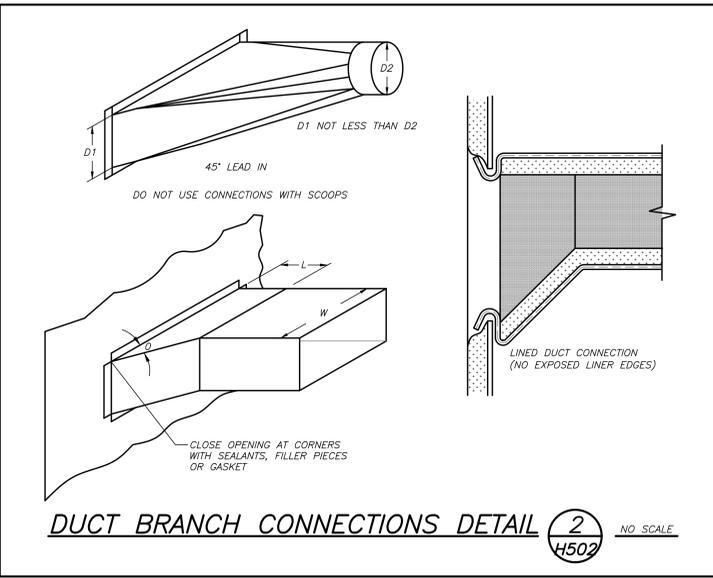
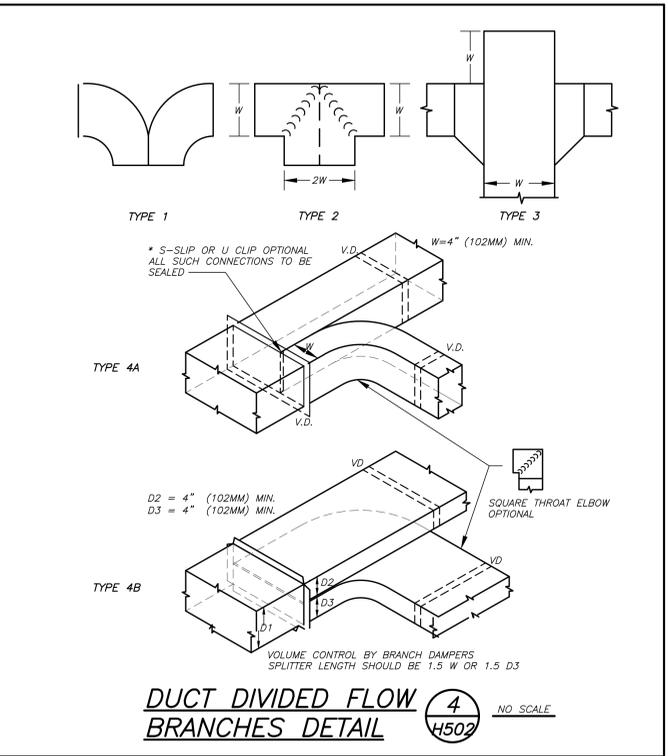
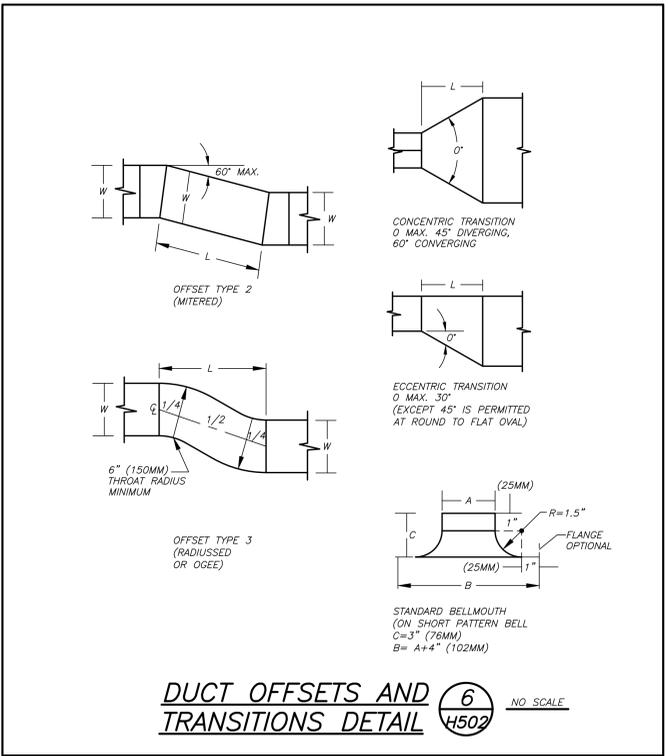
NOTE:
 DOWNFEED HWS & HWR PIPING SHALL BE WITHIN GYP. BOARD CONSTRUCTION TYPICAL, WHERE NO PARTITION EXISTS, PROVIDE SHEETMETAL ENCLOSURE.



FT-C DATA
 AS MANUFACTURED BY 'MODINE' WALL MOUNTED, STYLE EM 1 1/2" COPPER PIPE 4 1/4" X 4 1/2" ALUM. FINS, 500 BTU/HR/L.F. @ 112 DEG. F. A.W.T., 50 FINS/FT.
 REFER TO FLOOR PLANS FOR LENGTH



FIN TUBE RADIATION DETAIL 1 NO SCALE
 H502



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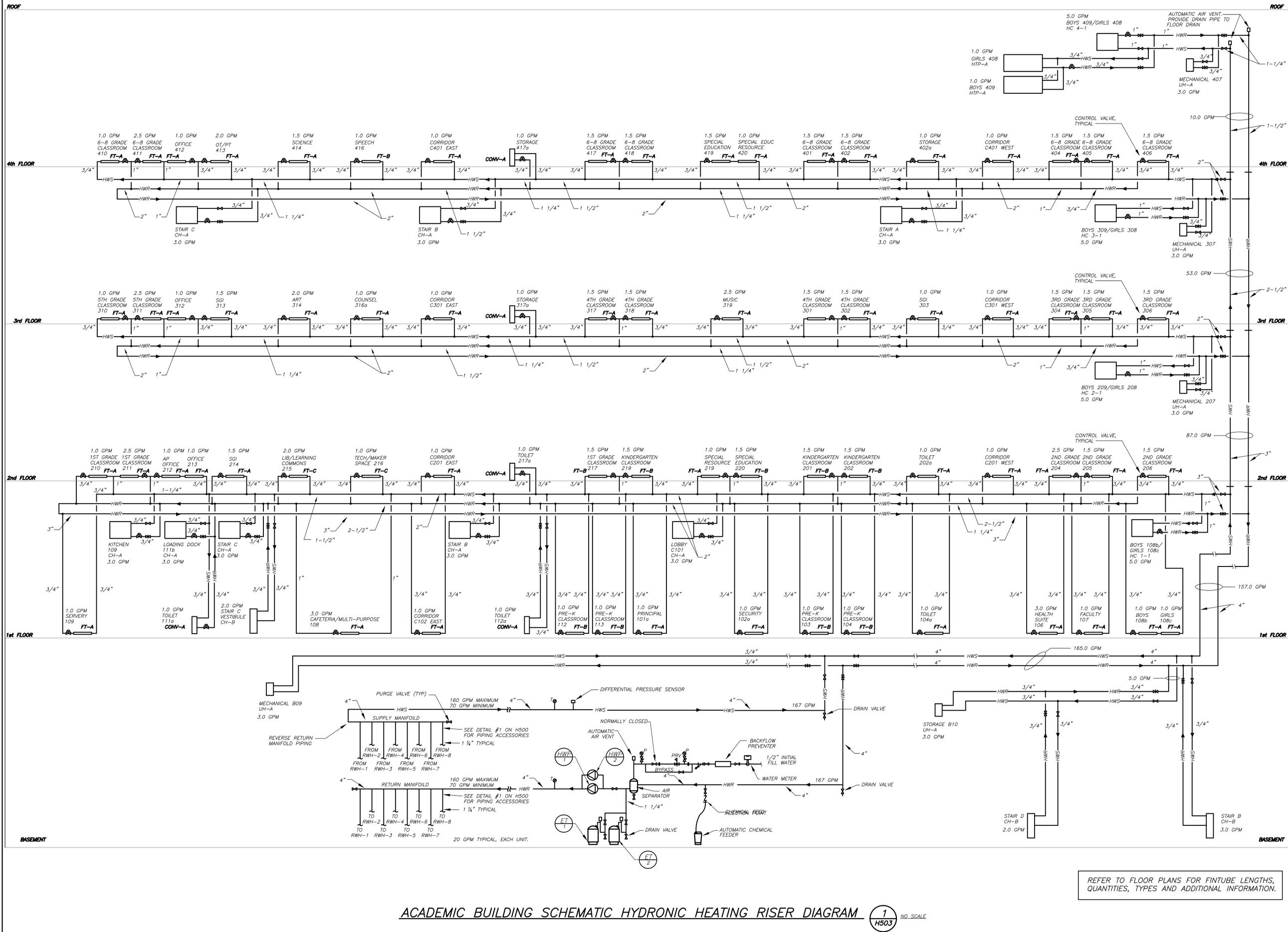
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3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

DETAILS

Job No.	Date
2019-1026	11/18/20

Scale	Drawn / Checked
AS NOTED	BCA/BGA

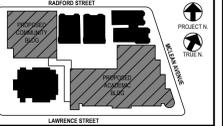
Sheet Number
H502



REFER TO FLOOR PLANS FOR FINITUBE LENGTHS, QUANTITIES, TYPES AND ADDITIONAL INFORMATION.

ACADEMIC BUILDING SCHEMATIC HYDRONIC HEATING RISER DIAGRAM 1/NO SCALE H503

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS



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2	12/15/2020	DESIGN DEVELOPMENT
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ACADEMIC BUILDING SCHEMATIC HYDRONIC HEATING RISER DIAGRAM

Job No.	2019-1026	Date	11/18/20
Scale	AS NOTED	Drawn / Checked	BCA/BGA
Sheet Number	H503		

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



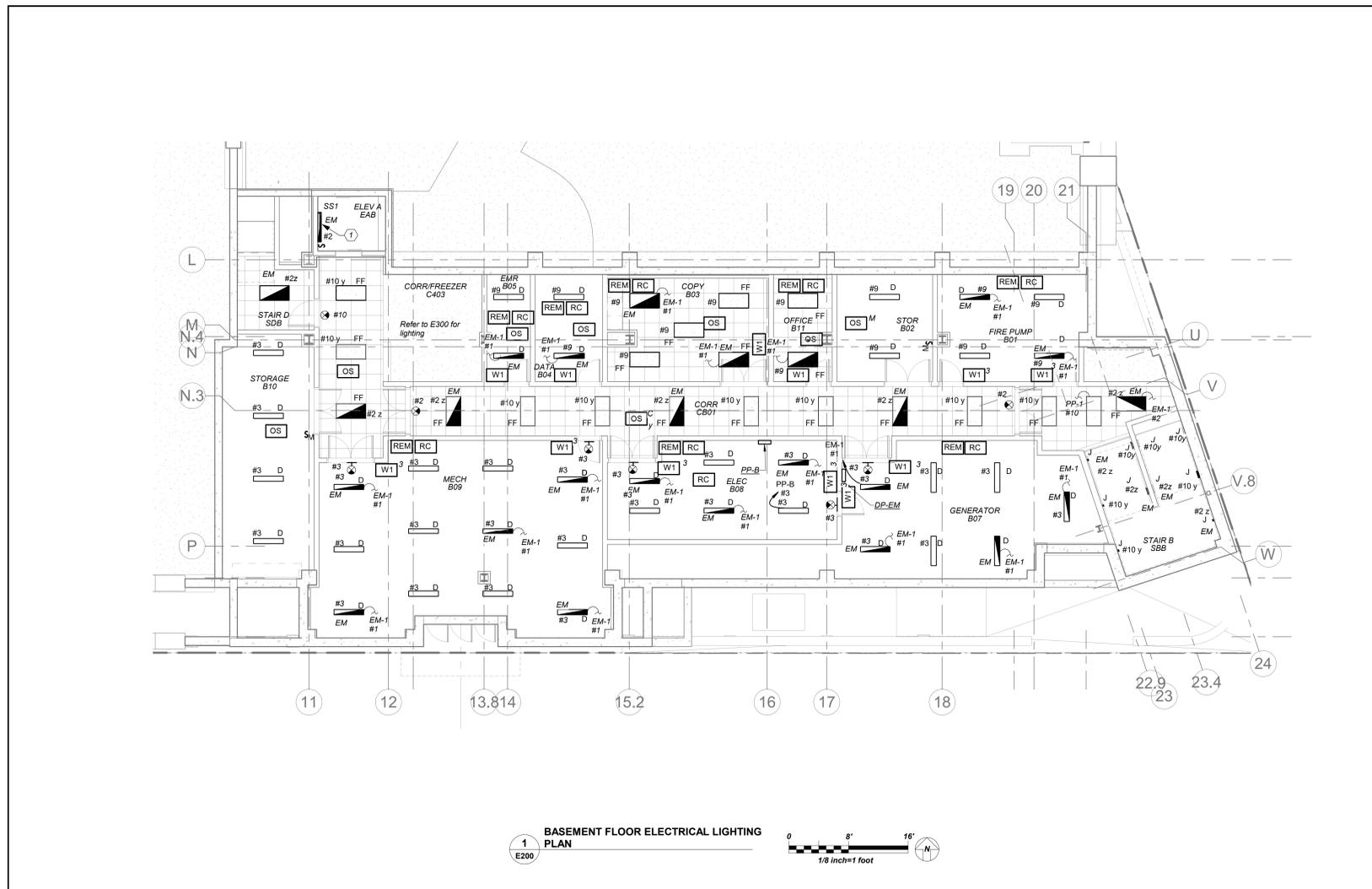
KG+D . ARCHITECTS PC
285 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P.914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



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1 BASEMENT FLOOR ELECTRICAL LIGHTING PLAN
E200

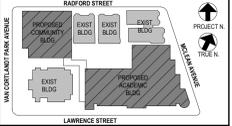
Scale: 1/8" = 1'-0"

LIGHTING CONTROLS AND SEQUENCE OF OPERATION

- MECHANICAL ROOMS, ELECTRICAL ROOM, FIRE PUMP ROOM AND GENERATOR ROOM NORMAL LIGHTS SHALL BE CONNECTED TO ROOM CONTROLLER AND SHALL BE CONTROLLED VIA LOCAL SWITCH ONLY. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
- ALL COMMON AREAS SHALL BE CONTROLLED VIA LOCAL WALL SWITCHES AND OCCUPANCY SENSORS FOR JUST NORMAL LIGHTING. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
- ALL LOBBY, CORRIDORS, AND STAIRWELL NORMAL LIGHTS ARE CONTROLLED OVERRIDE MASTER KEY SWITCH 'MA' AND LONG RANGE OCCUPANCY SENSORS (AUTO ON, AUTO OFF). IN EACH CORRIDOR WILL FUNCTION INDEPENDENTLY AS LOCAL ZONES. ALL LOBBY, CORRIDOR, AND STAIRWELL EMERGENCY LIGHTS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA OVERRIDE MASTER TOGGLE SWITCH 'MD', WHICH CAN SERVE AS SECURITY LIGHT OR ON DEMAND BY AUTHORIZED PERSONNEL (SUCH AS FIRE DEPT.). UTILIZE THE LOCAL NORMAL LIGHTING WITHIN THE SAME AREA FOR SENSING CIRCUIT.
- CLASSROOM CONFERENCE ROOM ARE CONTROLLED VIA MANUAL ON AUTO OFF DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. EACH SWITCH CONSISTS OF FULL DIMMING CAPABILITY OF THREE ZONES. WALL SWITCHES CONSISTS OF 'A', 'B', 'C' OFF, 'RAISE', AND 'LOWER' BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. CLASSROOMS THAT HAVE EMERGENCY LIGHTING SHALL HAVE A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE DESIGNATED ZONE IN LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.

WORK NOTES

- PROVIDE 4' STRIP LIGHTING 4000 LUMENS, 4000K COLOR TEMPERATURE, 0-10V DIMMING. CONNECT TO EMERGENCY LIGHT CIRCUIT MANUFACTURED BY COLUMBIA MODEL# LSCS-4040. EXACT LOCATION OF ELEVATOR PIT LIGHTING FIXTURE INSTALLATION SHALL BE COORDINATED WITH VENDOR BEFORE THE START OF ANY WORK. PROVIDE A LIGHT SWITCH NEAR LADDER AND COORDINATE EXACT LOCATION WITH VENDOR BEFORE THE START OF ANY WORK.



NOTE: ALL LOCAL DESIGN ARRANGEMENTS ARE PLANNED AND INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF INTER-GARMENT & SHAWDON ARCHITECTS PC HEREIN AND HEREIN CREATED FOR USE ON THIS PROJECT. NONE OF SUCH LOCAL DESIGN ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF KG+D.

WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER UNLabeled DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

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Professional Seal

No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

BASEMENT FLOOR ELECTRICAL LIGHTING PLAN

Job No. 2019-1026 Date 8/31/20
Scale AS NOTED Drawn / Checked BGA/BGA
Sheet Number

E200

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



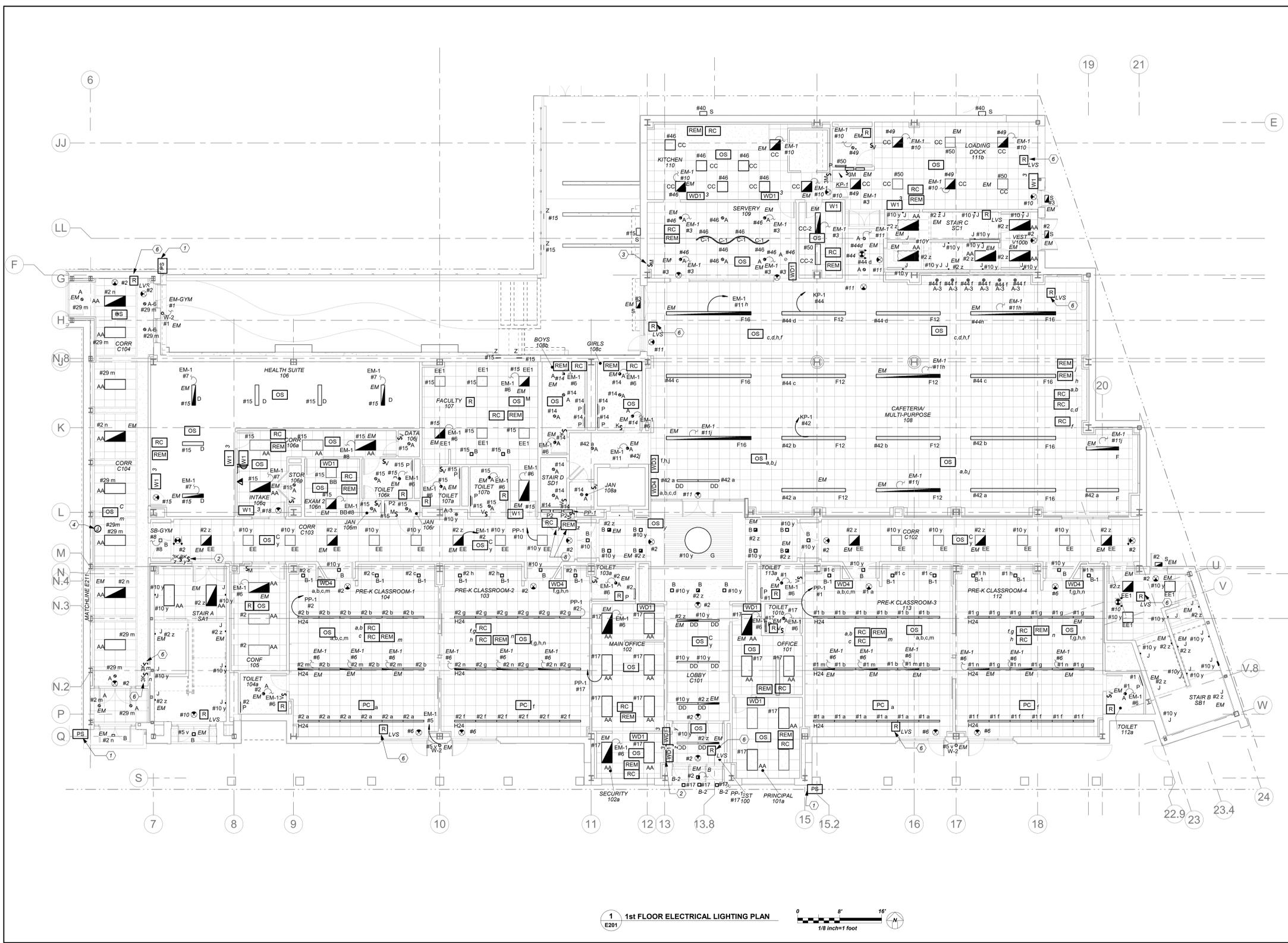
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NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



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1 1st FLOOR ELECTRICAL LIGHTING PLAN
E201



ELECTRICAL LIFE SAFETY AND EMERGENCY LIGHTING WORK SCOPE NOTES

1. PROVIDE NEW EXIT AND EMERGENCY LIGHTING AS REQUIRED BY CODE. PROVIDE NEW EXIT LIGHTS AND BRANCH CIRCUITRY TO SERVE EXIT LIGHTS.
2. ALL EMERGENCY LIGHTING ARE FED FROM GENERATOR WITH UL924 EMERGENCY LIGHTING RELAY TO BYPASS SWITCHING, WHICH BRINGS EMERGENCY LIGHTING FIXTURES TO FULL ILLUMINATION WHEN THERE IS A UTILITY POWER OUTAGE.
3. PROVIDE NEW EXTERIOR L.E.D. TYPE EMERGENCY LIGHT OVER EVERY EXTERIOR DOORS CONTROLLED VIA PHOTOCELL.

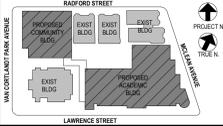
LIGHTING CONTROLS AND SEQUENCE OF OPERATION

1. MECHANICAL ROOMS, NORMAL LIGHTS SHALL BE CONNECTED TO ROOM CONTROLLER AND SHALL BE CONTROLLED VIA LOCAL SWITCH ONLY. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
2. ALL COMMON AREAS SHALL BE CONTROLLED VIA LOCAL WALL SWITCHES AND OCCUPANCY SENSORS FOR JUST NORMAL LIGHTING. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
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4. EXTERIOR BUILDING MOUNTED LIGHTS ARE CONTROLLED VIA BUILT-IN PHOTOCELL AND STEP-DIM MOTION SENSORS. PROVIDE ALL REQUIRED IN BUILT BATTERY BACKUP SHALL OVERRIDE ALL SENSORS (PHOTOCELL AND OCCUPANCY SENSOR) IN THE EVENT OF EMERGENCY AT EGRESS DOORS AS SHOWN.
5. CLASSROOM CONFERENCE ROOM ARE CONTROLLED VIA MANUAL ON AUTO OFF DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. EACH SWITCH CONSISTS OF FULL DIMMING CAPABILITY OF THREE ZONES. WALL SWITCHES CONSISTS OF 'A', 'B', 'C' OFF, 'RAISE', AND 'LOWER' BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. CLASSROOMS THAT HAVE EMERGENCY LIGHTING, SHALL HAVE A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE DESIGNATED ZONE IN LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.

WORK NOTES

1. PROVIDE TORK 2001 SERIES PHOTOCELL WHICH IS TO BE MOUNTED ON BUILDING WALL TO OPERATE EXTERIOR EMERGENCY LIGHTING. CONTRACTOR TO AVOID MOUNTING PHOTOCELL UNDER OVERHANG.
2. THE INDICATED SWITCHES SHALL CONTROL ALL CORRIDOR LIGHTING AND STAIRWAY LIGHTING THROUGHOUT THE BUILDING. PROVIDE LEXAN COVER. EXACT LOCATION SHALL BE COORDINATED WITH OWNER BEFORE THE START OF ANY WORK.
3. MOMENTARY LIGHT SWITCH SHALL CONTROL "Z" FIXTURES ON THE EXTERIOR STEPS.
4. PROVIDE WALL MOUNTED JUNCTION BOX FOR DISPLAY CASE LIGHTING. LIGHT SHALL BE HARDWIRED TO CORRIDOR CIRCUIT HAS SHOWN. IF LIGHT FIXTURE COMES WITH J-CORD, EC SHALL REMOVE J-CORD, AND REWIRE CIRCUIT DIRECTLY TO FIXTURE JUNCTION BOX/DRIVER. COORDINATE THE EXACT LOCATION OF JUNCTION BOX WITH ARCHITECT BEFORE THE START OF ANY WORK.
5. 3 WAY KEYS SWITCHES SHALL CONTROL CORRIDOR LIGHTING FOR THE ENTIRE COMMUNITY BUILDING CORRIDOR LIGHTING. REFER TO E210 AND E211 FOR ADDITIONAL SWITCHING AND CONTROLS. COORDINATE THE EXACT LOCATION BEFORE THE START OF ANY WORK.
6. RELAY SHALL CONTROL EXTERIOR EGRESS EMERGENCY LIGHTS.
7. EXACT MOUNTING LOCATION TO BE COORDINATED WITH OWNER AND ARCHITECT BEFORE THE START OF ANY WORK.
8. THE NORMAL ROOM CONTROLLER "Y" AND EMERGENCY ROOM CONTROLLER "Z" SHALL CONTROL CORRIDOR LIGHTING ON THIS FLOOR AND SHALL BE CONNECTED TO SIMILAR ON OTHER FLOORS. THEY SHALL BE CONTROLLED VIA SWITCHING AT MAIN VESTIBULE 100.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS



NOTE: ALL LOCAL ZONING, ORDINANCES AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF THE YONKERS JOINT SCHOOL CONSTRUCTION BOARD. THESE DRAWINGS ARE CREATED FOR USE ON THIS PROJECT. NONE OF SUCH LOCAL ORDINANCES, ORDINANCES OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF KG+D.

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Professional Seal

No.	Date	Issue
1	08/31/2020	SCHEMATIC DESIGN
2	12/15/2020	DESIGN DEVELOPMENT
3	07/14/2021	CONSTRUCTION DOCS-NYSED
4	11/01/2021	ISSUED TO BID

Sheet Title

1st FLOOR ELECTRICAL LIGHTING PLAN

Job No.	2019-1026	Date	8/31/20
Scale	AS NOTED	Drawn / Checked	BGA/ BGA
Sheet Number	E201		

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



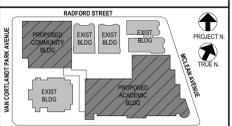
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285 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P 914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



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99 MARBLE AVE. PLEASANTVILLE, NY 10570
914.326.0099 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM



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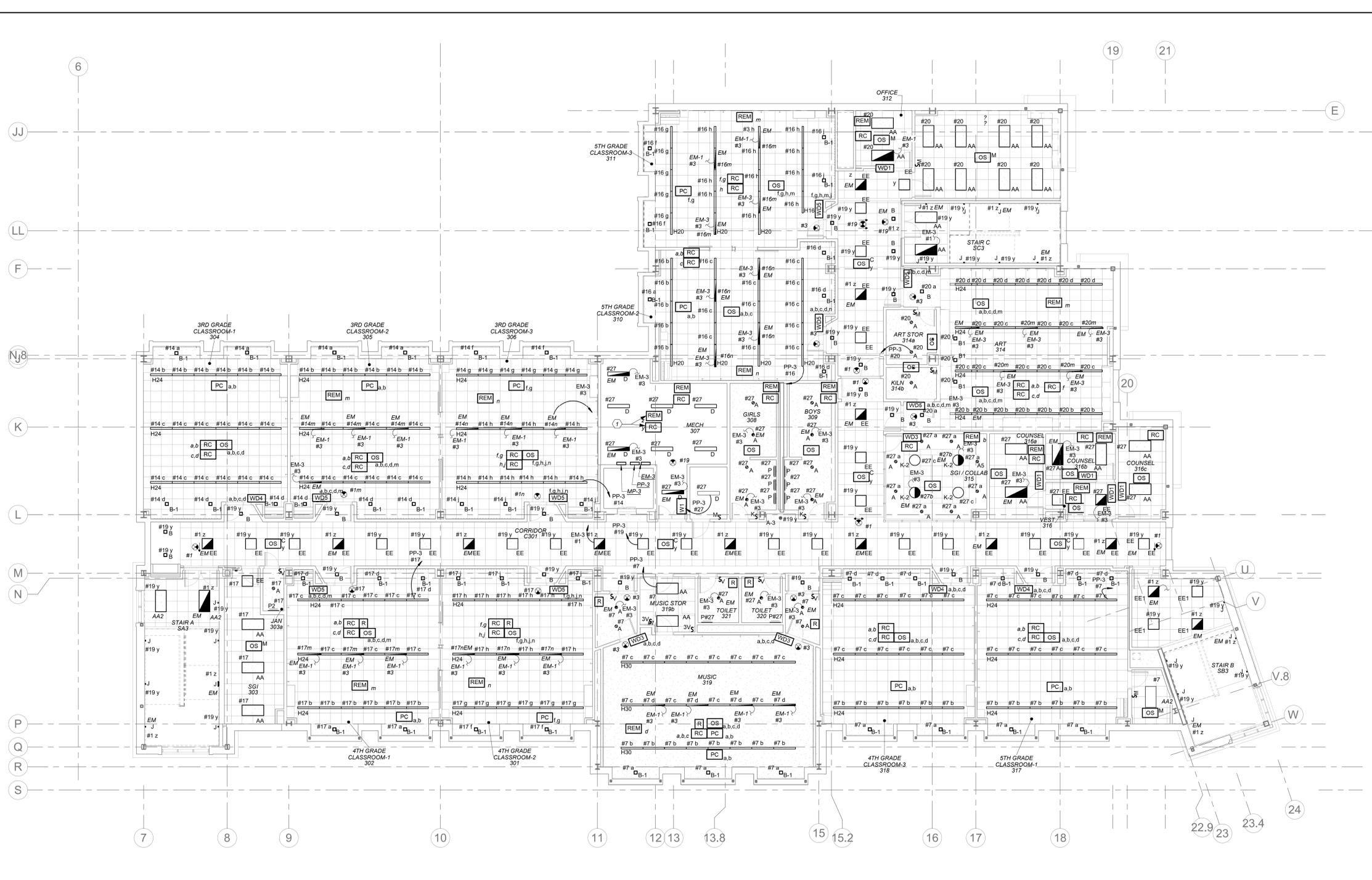
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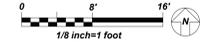
3rd FLOOR ELECTRICAL LIGHTING PLAN

Job No. 2019-1026 Date 8/31/20
Scale AS NOTED Drawn / Checked BGA/BGA
Sheet Number

E203



3rd FLOOR ELECTRICAL LIGHTING PLAN
E203



BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

ELECTRICAL LIFE SAFETY AND EMERGENCY LIGHTING WORK SCOPE NOTES

1. PROVIDE NEW EXIT AND EMERGENCY LIGHTING AS REQUIRED BY CODE. PROVIDE NEW EXIT LIGHTS AND BRANCH CIRCUITRY TO SERVE EXIT LIGHTS.
2. ALL EMERGENCY LIGHTING ARE FED FROM GENERATOR WITH UL924 EMERGENCY LIGHTING RELAY TO BYPASS SWITCHING WHICH BRINGS EMERGENCY LIGHTING FIXTURES TO FULL ILLUMINATION WHEN THERE IS A UTILITY POWER OUTAGE.

LIGHTING CONTROLS AND SEQUENCE OF OPERATION

1. MECHANICAL ROOMS NORMAL LIGHTS SHALL BE CONNECTED TO ROOM CONTROLLER AND SHALL BE CONTROLLED VIA LOCAL SWITCH ONLY. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
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3. ALL LOBBY, CORRIDORS, AND STAIRWELL NORMAL LIGHTS ARE CONTROLLED OVERRIDE MASTER KEY SWITCH 'MA' AND LONG RANGE OCCUPANCY SENSORS (AUTO ON, AUTO OFF). IN EACH CORRIDOR WILL FUNCTION INDEPENDENTLY AS LOCAL ZONES. ALL LOBBY, CORRIDOR, AND STAIRWELL EMERGENCY LIGHTS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA OVERRIDE MASTER SWITCH 'MD' WHICH CAN SERVE AS SECURITY LIGHT OR ON DEMAND BY AUTHORIZED PERSONNEL (SUCH AS FIRE DEPT). UTILIZE THE LOCAL NORMAL LIGHTING WITHIN THE SAME AREA FOR SENSING CIRCUIT.
4. CLASSROOM CONFERENCE ROOM ARE CONTROLLED VIA MANUAL ON AUTO OFF DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. EACH SWITCH CONSISTS OF FULL DIMMING CAPABILITY OF THREE ZONES. WALL SWITCHES CONSISTS OF 'A', 'B', 'C' OFF, 'RAISE', AND LOWER BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. CLASSROOMS THAT HAVE EMERGENCY LIGHTING, SHALL HAVE A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE DESIGNATED ZONE IN LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.

WORK NOTES

1. THE NORMAL ROOM CONTROLLER 'Y' AND EMERGENCY ROOM CONTROLLER 'Z' SHALL CONTROL CORRIDOR LIGHTING ON THIS FLOOR AND SHALL BE CONNECTED TO SIMILAR ON OTHER FLOORS. THEY SHALL BE CONTROLLED VIA SWITCHING AT MAIN VESTIBULE 100.

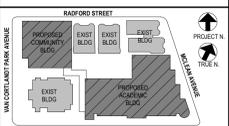
NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

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66-23-00-01-0-346-001

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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

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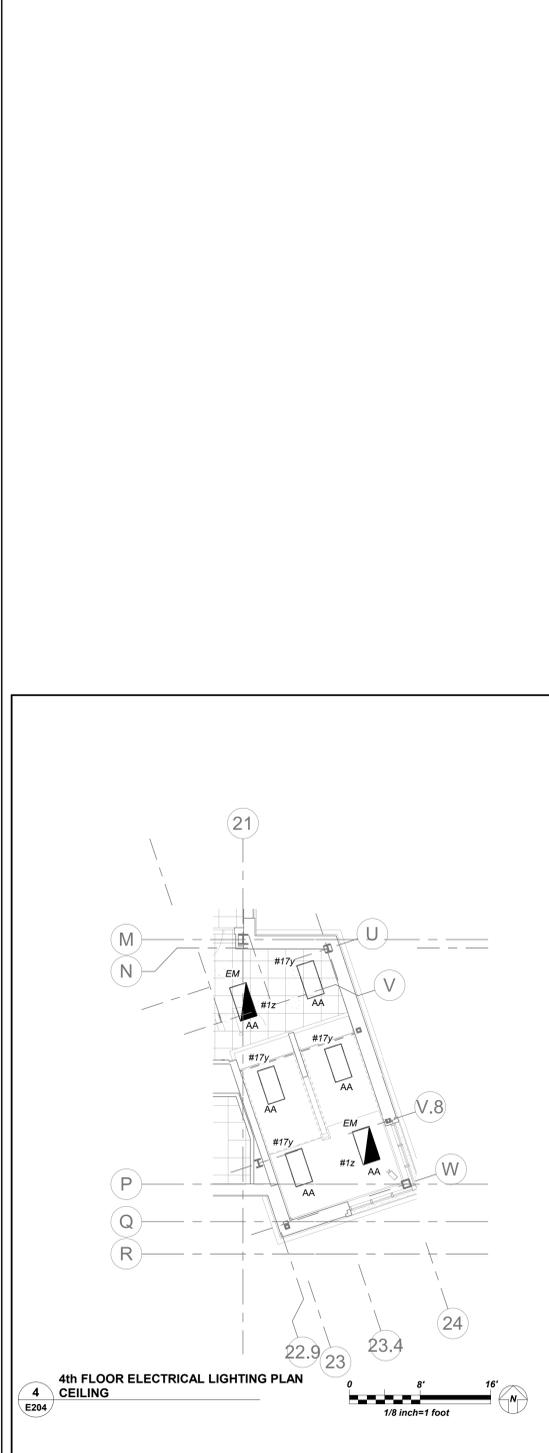
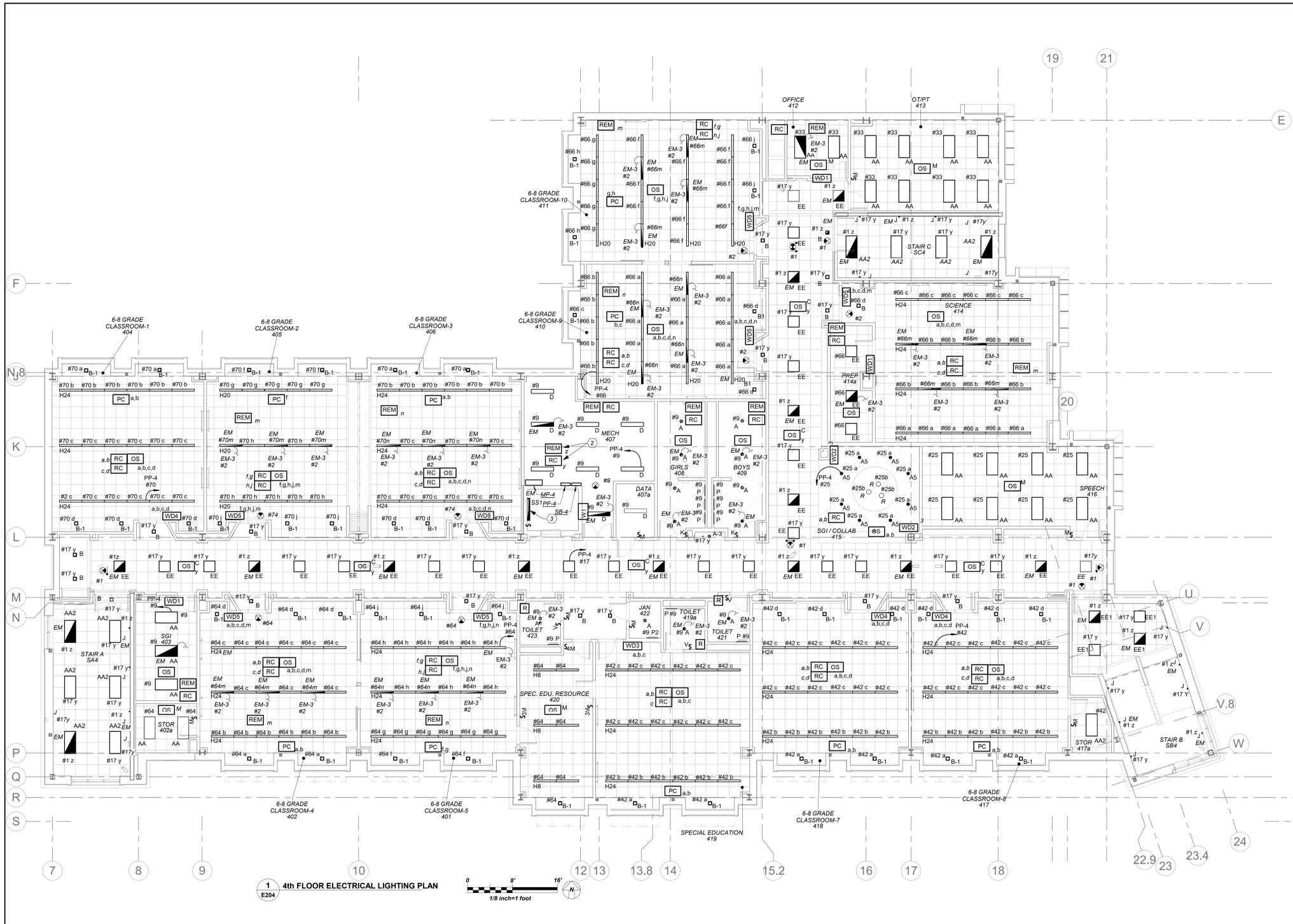
4th FLOOR ELECTRICAL LIGHTING PLAN

Job No. 2019-1026 Date 8/31/20

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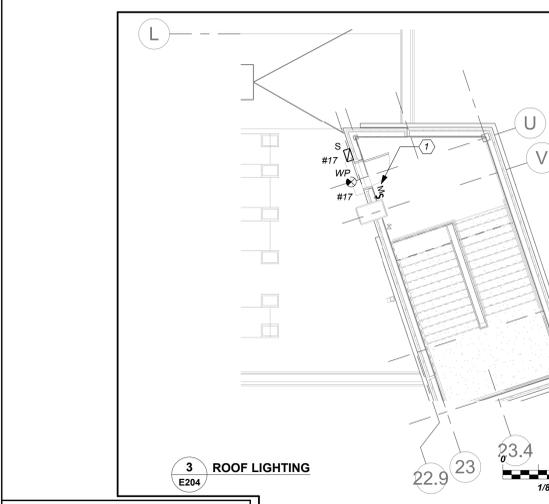
Sheet Number

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4th FLOOR ELECTRICAL LIGHTING PLAN CEILING
E204

4th FLOOR ELECTRICAL LIGHTING PLAN
E204



3 ROOF LIGHTING
E204

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3. ALL LOBBY, CORRIDORS, AND STAIRWELL NORMAL LIGHTS ARE CONTROLLED OVERRIDE MASTER KEY SWITCH 'MA' AND LONG RANGE OCCUPANCY SENSORS (AUTO ON, AUTO OFF). IN EACH CORRIDOR WILL FUNCTION INDEPENDENTLY AS LOCAL ZONES. ALL LOBBY, CORRIDOR, AND STAIRWELL EMERGENCY LIGHTS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA OVERRIDE MASTER TOGGLE SWITCH 'MD', WHICH CAN SERVE AS SECURITY LIGHT OR ON DEMAND BY AUTHORIZED PERSONNEL (SUCH AS FIRE DEPT). UTILIZE THE LOCAL NORMAL LIGHTING WITHIN THE SAME AREA FOR SENSING CIRCUIT.
4. CLASSROOM CONFERENCE ROOM ARE CONTROLLED VIA MANUAL ON AUTO OFF DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. EACH SWITCH CONSISTS OF FULL DIMMING CAPABILITY OF THREE ZONES. WALL SWITCHES CONSISTS OF 'X', 'Y', 'C' 'OFF', 'RAISE', AND 'LOWER' BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. CLASSROOMS THAT HAVE EMERGENCY LIGHTING, SHALL HAVE A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE DESIGNATED ZONE IN LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.

ELECTRICAL LIFE SAFETY AND EMERGENCY LIGHTING WORK SCOPE NOTES

1. PROVIDE NEW EXIT AND EMERGENCY LIGHTING AS REQUIRED BY CODE. PROVIDE NEW EXIT LIGHTS AND BRANCH CIRCUITRY TO SERVE EXIT LIGHTS.
2. ALL EMERGENCY LIGHTING ARE FED FROM GENERATOR WITH UL924 EMERGENCY LIGHTING RELAY TO BYPASS SWITCHING, WHICH BRINGS EMERGENCY LIGHTING FIXTURES TO FULL ILLUMINATION WHEN THERE IS A UTILITY POWER OUTAGE.

WORK NOTES

1. MOMENTARY SWITCH SHALL CONTROL ROOF LIGHTING.
2. THE NORMAL ROOM CONTROLLER 'Y' AND EMERGENCY ROOM CONTROLLER 'Z' SHALL CONTROL CORRIDOR LIGHTING ON THIS FLOOR AND SHALL BE CONNECTED TO SIMILAR ON OTHER FLOORS. THEY SHALL BE CONTROLLED VIA SWITCHING AT MAIN VESTIBULE 100.
3. PROVIDE 4' STRIP LIGHTING 4000 LUMENS, 4000K COLOR TEMPERATURE, 0-10V DIMMING, CONNECT TO EMERGENCY LIGHT CIRCUIT MANUFACTURED BY COLUMBIA MODEL # LSCS-4040. EXACT LOCATION OF ELEVATOR SHAFT LIGHTING FIXTURE INSTALLATION SHALL BE COORDINATED WITH VENDOR BEFORE THE START OF ANY WORK. PROVIDE A LIGHT SWITCH NEAR LADDER AND COORDINATE EXACT LOCATION WITH VENDOR BEFORE THE START OF ANY WORK.

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



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285 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P914.666.5900 KGDARCHITECTS.COM

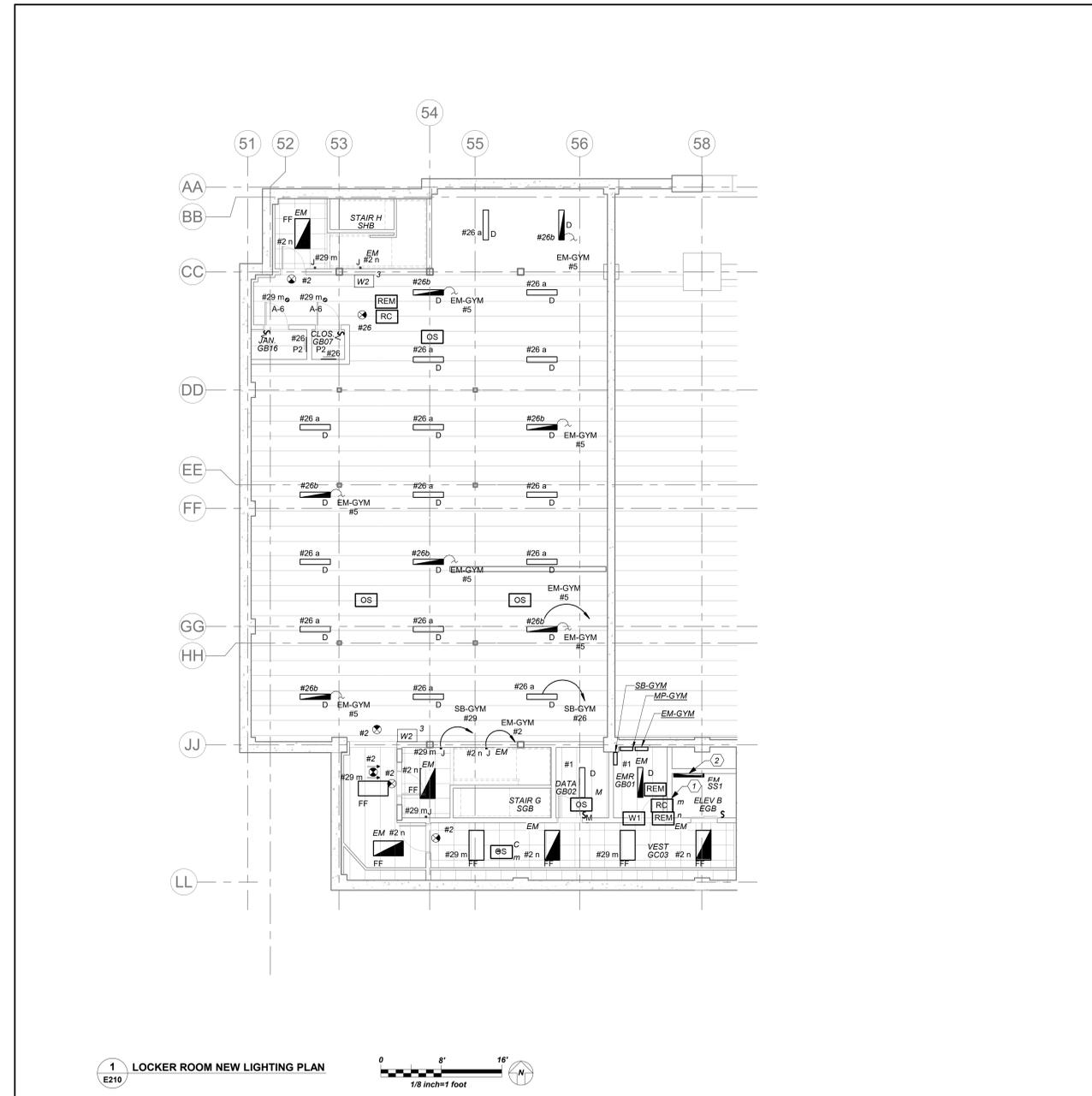
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66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



BARILE GALLAGHER & ASSOCIATES

CONSULTING ENGINEERS
99 MARBLE AVE. PLEASANTVILLE, NY 10570
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1 LOCKER ROOM NEW LIGHTING PLAN
E210
0 8' 16'
1/8 inch=1 foot

LIGHTING CONTROLS AND SEQUENCE OF OPERATION

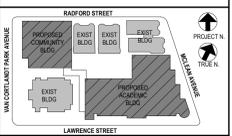
- MECHANICAL ROOMS NORMAL LIGHTS SHALL BE CONNECTED TO ROOM CONTROLLER AND SHALL BE CONTROLLED VIA LOCAL SWITCH ONLY. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
- ALL COMMON AREAS SHALL BE CONTROLLED VIA LOCAL WALL SWITCHES AND OCCUPANCY SENSORS FOR JUST NORMAL LIGHTING. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
- ALL LOBBY, CORRIDORS, AND STAIRWELL NORMAL LIGHTS ARE CONTROLLED OVERRIDE MASTER KEY SWITCH 'MA' AND LONG RANGE OCCUPANCY SENSORS (AUTO ON, AUTO OFF). IN EACH CORRIDOR WILL FUNCTION INDEPENDENTLY AS LOCAL ZONES. ALL LOBBY, CORRIDOR, AND STAIRWELL EMERGENCY LIGHTS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA OVERRIDE MASTER TOGGLE SWITCH 'MD', WHICH CAN SERVE AS SECURITY LIGHT OR ON DEMAND BY AUTHORIZED PERSONNEL (SUCH AS FIRE DEPT). UTILIZE THE LOCAL NORMAL LIGHTING WITHIN THE SAME AREA FOR SENSING CIRCUIT.

ELECTRICAL LIFE SAFETY AND EMERGENCY LIGHTING WORK SCOPE NOTES

- PROVIDE NEW EXIT AND EMERGENCY LIGHTING AS REQUIRED BY CODE. PROVIDE NEW EXIT LIGHTS AND BRANCH CIRCUITRY TO SERVE EXIT LIGHTS.
- ALL EMERGENCY LIGHTING ARE FED FROM GENERATOR WITH UL924 EMERGENCY LIGHTING RELAY TO BYPASS SWITCHING, WHICH BRINGS EMERGENCY LIGHTING FIXTURES TO FULL ILLUMINATION WHEN THERE IS A UTILITY POWER OUTAGE.

WORK NOTES

- THE NORMAL ROOM CONTROLLER "Y" AND EMERGENCY ROOM CONTROLLER "Z" SHALL CONTROL CORRIDOR LIGHTING ON THIS FLOOR AND SHALL BE CONNECTED TO SIMILAR ON OTHER FLOORS. THEY SHALL BE CONTROLLED VIA SWITCHING AT MAIN VESTIBULE 100.
- PROVIDE 4' STRIP LIGHTING 4000 LUMENS, 4000K COLOR TEMPERATURE, 0-10V DIMMING, CONNECTO EMERGENCY LIGHT CIRCUIT MANUFACTURED BY COLUMBIA MODEL# LSCS-4040, EXACT LOCATION OF ELEVATOR PIT LIGHTING FIXTURE INSTALLATION SHALL BE COORDINATED WITH VENDOR BEFORE THE START OF ANY WORK. PROVIDE A LIGHT SWITCH NEAR LADDER AND COORDINATE EXACT LOCATION WITH VENDOR BEFORE THE START OF ANY WORK.



NOTE: ALL LOCAL SESSION ARRANGEMENTS ARE PLANNED AND INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF BARILE GALLAGHER & ASSOCIATES, PC (BGA) AND WERE CREATED FOR USE ON THIS PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF BGA.

WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

ALTERATIONS BY ANY PERSON IN ANY WAY OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT, ENGINEER, PROFESSIONAL DESIGNER OR PROFESSIONAL ENGINEER, IS A VIOLATION OF TITLE 16, SECTION 17-150 OF NEW YORK STATE LAW.

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Professional Seal

No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS&D
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title
COMM.WING - BASEMENT ELEC LIGHTING PLAN

Job No.	2019-1026	Date	8/31/20
Scale	AS NOTED	Drawn / Checked	BGA/BGA
Sheet Number	E210		

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

ELECTRICAL LIFE SAFETY AND EMERGENCY LIGHTING WORK SCOPE NOTES

1. PROVIDE NEW EXIT AND EMERGENCY LIGHTING AS REQUIRED BY CODE. PROVIDE NEW EXIT LIGHTS AND BRANCH CIRCUITRY TO SERVE EXIT LIGHTS.
2. ALL EMERGENCY LIGHTING ARE FED FROM GENERATOR WITH UL924 EMERGENCY LIGHTING RELAY TO BYPASS SWITCHING, WHICH BRINGS EMERGENCY LIGHTING FIXTURES TO FULL ILLUMINATION WHEN THERE IS A UTILITY POWER OUTAGE.
3. PROVIDE NEW EXTERIOR L.E.D. TYPE EMERGENCY LIGHT OVER EVERY EXTERIOR DOORS CONTROLLED VIA PHOTOCELL.

THEATRICAL RISER WORK NOTES- ADD ALTERNATE

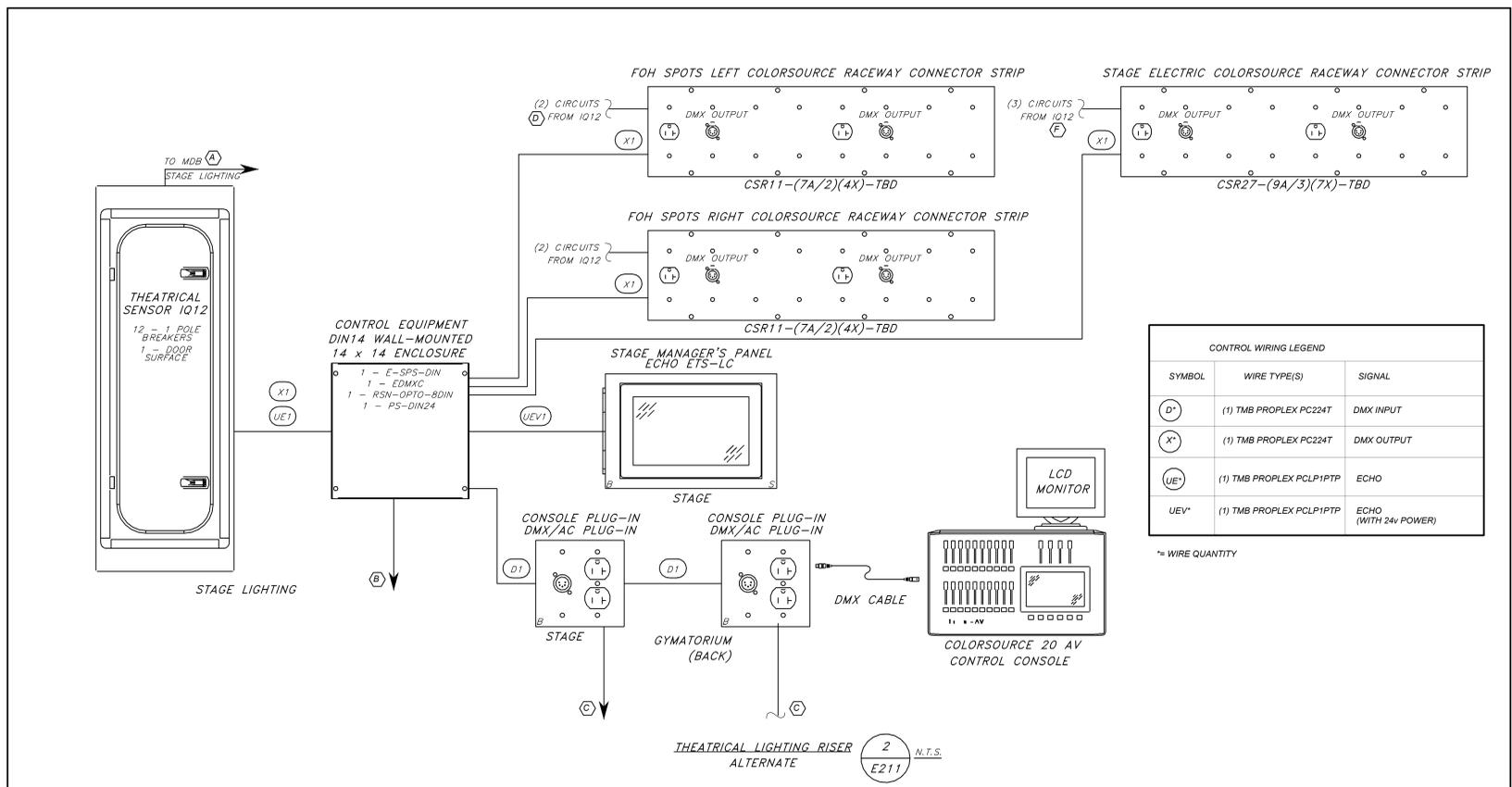
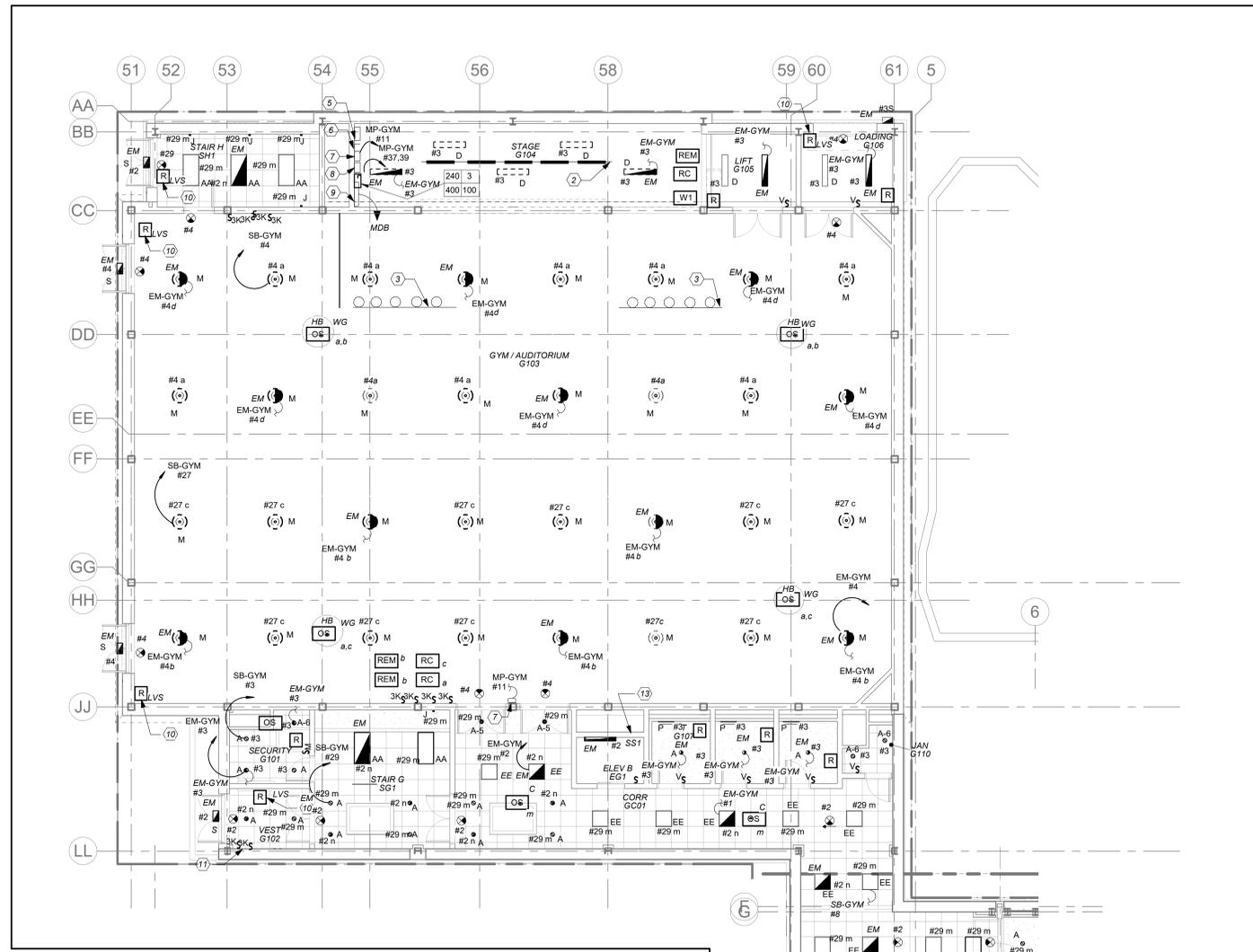
- PROVIDE THEATRICAL SENSOR IQ PANEL WITH (12) 1-POLE BREAKERS. PROVIDE 4-300 KCMIL +10G IN 2-1/2" CONDUIT FROM DISCONNECT SWITCH TO THE MAIN DISTRIBUTION BOARD IN THE ELECTRICAL ROOM. REFER TO DRAWING E300 FOR EXACT LOCATION. PROVIDE A 3P-100 AMP BREAKER AT SPACE ON AVAILABLE ON THE BOARD. PROVIDE #11-186G-1-1/2" CF FROM DISCONNECT SWITCH TO FEED SENSOR IQ PANEL.
- PROVIDE 2#12+1#12G TO PANEL AS SHOWN. PROVIDE A 2P-20 AMP BREAKER AT PANEL.
- PROVIDE 2#12+1#12G TO PANEL AS SHOWN. PROVIDE A 1P-20 AMP BREAKER AT PANEL.
- PROVIDE (2) 3/4" CONDUIT WITH 2#12+1#12 TO 1P-20A BREAKER AT IQ-20 PANEL.
- PROVIDE (3) 3/4" CONDUIT WITH 2#12+1#12 TO 1P-20 BREAKER AT IQ-20 PANEL.

LIGHTING CONTROLS AND SEQUENCE OF OPERATION

1. MECHANICAL ROOMS, NORMAL LIGHTS SHALL BE CONNECTED TO ROOM CONTROLLER AND SHALL BE CONTROLLED VIA LOCAL SWITCH ONLY. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
2. ALL COMMON AREAS SHALL BE CONTROLLED VIA LOCAL WALL SWITCHES AND OCCUPANCY SENSORS FOR JUST NORMAL LIGHTING. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
3. ALL LOBBY, CORRIDORS, AND STAIRWELL NORMAL LIGHTS ARE CONTROLLED OVERRIDE MASTER KEY SWITCH "M" AND LONG RANGE OCCUPANCY SENSORS (AUTO ON, AUTO OFF). IN EACH CORRIDOR WILL FUNCTION INDEPENDENTLY AS LOCAL ZONES. ALL LOBBY, CORRIDOR, AND STAIRWELL EMERGENCY LIGHTS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA OVERRIDE MASTER TOGGLE SWITCH "M", WHICH CAN SERVE AS SECURITY LIGHT OR ON DEMAND BY AUTHORIZED PERSONNEL (SUCH AS FIRE DEPT). UTILIZE THE LOCAL NORMAL LIGHTING WITHIN THE SAME AREA FOR SENSING CIRCUIT.
4. EXTERIOR BUILDING MOUNTED LIGHTS ARE CONTROLLED VIA BUILT-IN PHOTOCELL AND STEP-DIM MOTION SENSORS. PROVIDE ALL REQUIRED IN BUILT BATTERY BACKUP SHALL OVERRIDE ALL SENSORS (PHOTOCELL AND OCCUPANCY SENSOR) IN THE EVENT OF EMERGENCY AT EGRESS DOORS AS SHOWN.

WORK NOTES

1. PROVIDE TORK 2001 SERIES PHOTOCELL WHICH IS TO BE MOUNTED ON BUILDING WALL TO OPERATE EXTERIOR EMERGENCY LIGHTING. CONTRACTOR TO AVOID MOUNTING PHOTOCELL UNDER OVERHANGS.
2. **BASE BID:** PROVIDE A 2-1/2" CONDUIT FROM THE MAIN ELECTRICAL ROOM TO STAGE WITH DRAGWIRE. FOR THE EXACT LOCATION OF THE MAIN ELECTRICAL ROOM, REFER TO E300.
3. **ADD ALTERNATE:** PROVIDE COLOR SOURCE RACEWAY CONNECTOR STRIP, MANUFACTURER ETC. MODEL # CSR11-(7A/2)(4X)-TBD.
4. **ADD ALTERNATE:** PROVIDE COLOR SOURCE RACEWAY CONNECTOR STRIP, MANUFACTURER ETC MODEL# CSR27-(9A/3)(7X)-TBD.
5. **ADD ALTERNATE:** PROVIDE COLOR SOURCE CONSOLE, MANUFACTURER ETC. MODEL # CS40AV WITH LCD MONITOR.
6. **ADD ALTERNATE:** PROVIDE STAGE MANAGER'S PANEL, MANUFACTURER ETC. MODEL # ETS-LC-7186A1120.
7. **ADD ALTERNATE:** PROVIDE ETC CONSOLE PLUG IN.
8. **ADD ALTERNATE:** PROVIDE CONTROL EQUIPMENT DIN 14 WALL MOUNTED WITH 14"x14" ENCLOSURE.
9. **ADD ALTERNATE:** PROVIDE THEATRICAL SENSOR IQ PANEL WITH (12) 1-POLE BREAKERS. PROVIDE 4-300 KCMIL +10G IN 2-1/2" CONDUIT FROM DISCONNECT SWITCH TO THE MAIN DISTRIBUTION BOARD IN THE ELECTRICAL ROOM. REFER TO DRAWING E300 FOR EXACT LOCATION. PROVIDE A 3P-100 AMP BREAKER AT SPACE ON AVAILABLE ON THE BOARD. PROVIDE #11-186G-1-1/2" CF FROM DISCONNECT SWITCH TO FEED SENSOR IQ PANEL.
10. RELAY SHALL CONTROL EXTERIOR EGRESS EMERGENCY LIGHTS.
11. 3 WAY KEYED SWITCHES SHALL CONTROL CORRIDOR LIGHTING FOR THE ENTIRE COMMUNITY BUILDING CORRIDOR LIGHTING. REFER TO E301 FOR ADDITIONAL SWITCHING AND CONTROLS. COORDINATE EXACT LOCATION BEFORE THE START OF ANY WORK.
12. NOT USED.
13. PROVIDE 4' STRIP LIGHTING 4000 LUMENS, 4000K COLOR TEMPERATURE, 0-10V DIMMING, CONNECT TO EMERGENCY LIGHT CIRCUIT MANUFACTURED BY COLUMBIA MODEL# LCS-4040. EXACT LOCATION OF ELEVATOR SHAFT LIGHTING FIXTURE INSTALLATION SHALL BE COORDINATED WITH VENDOR BEFORE THE START OF ANY WORK. PROVIDE A LIGHT SWITCH NEAR LADDER AND COORDINATE EXACT LOCATION WITH VENDOR BEFORE THE START OF ANY WORK.



BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

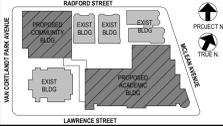
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 Yonkers, NY 10705

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 P-914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
 66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS

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Professional Seal

No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS-SED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

COMM. WING 1ST FL ELEC LIGHTING PLAN

Job No. 2019-1026 Date 8/31/20
 Scale AS NOTED Drawn / Checked BGA / BGA

Sheet Number
E211

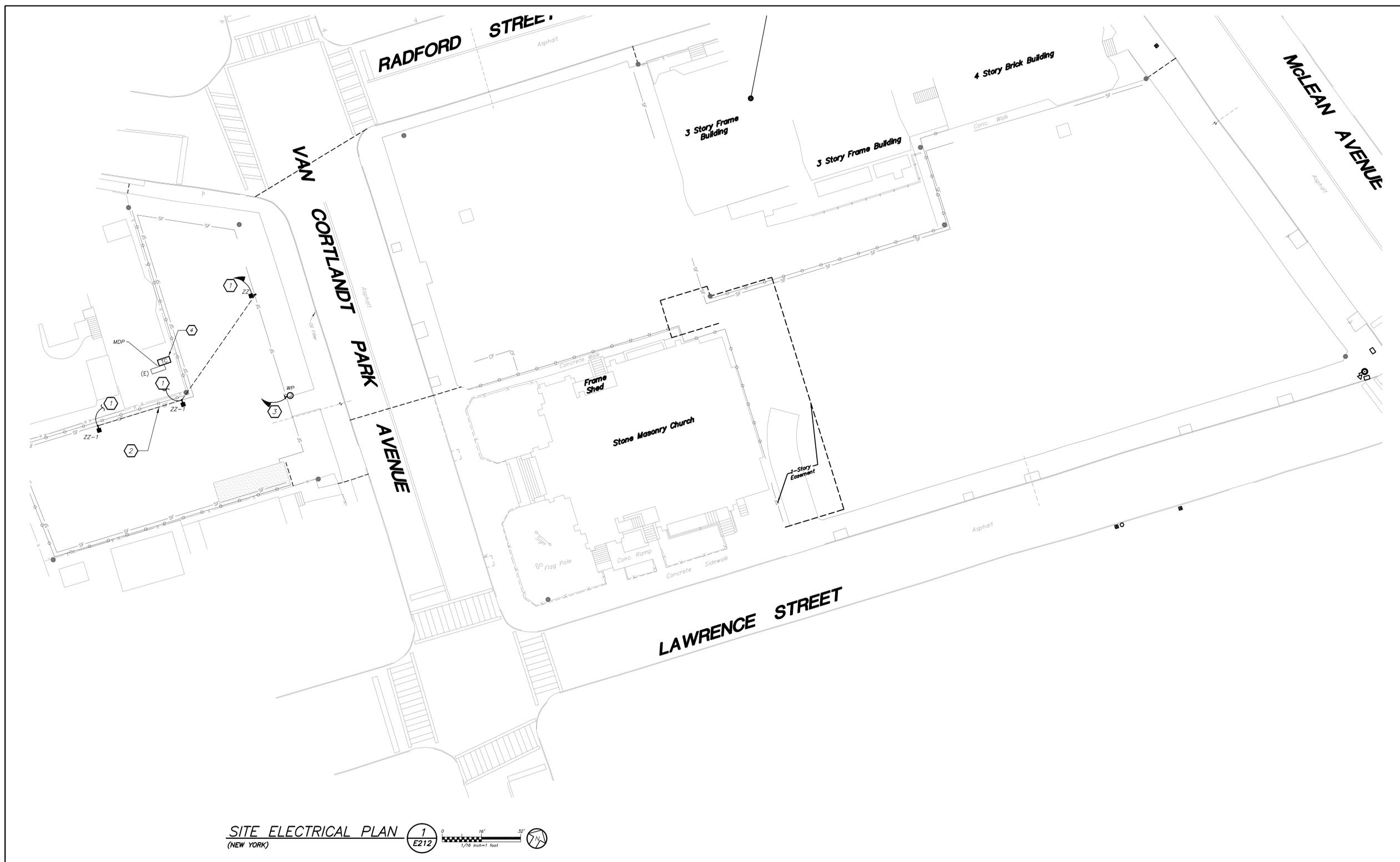
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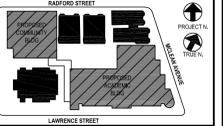
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CONSTRUCTION DOCUMENTS

lga
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SITE ELECTRICAL PLAN
 (NEW YORK)
 E212
 1/16 inch=1 foot



NOTE: ALL EXISTING CONDITIONS AND INFORMATION SHOWN ON THIS DRAWING ARE BASED ON THE INFORMATION PROVIDED BY THE CLIENT AND THE ARCHITECT. THE ARCHITECT HAS CONDUCTED VISUAL GENERAL VERIFICATION OF THE INFORMATION PROVIDED AND HAS NOT CONDUCTED A FIELD SURVEY. THE ARCHITECT DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED OR THE RESULTS OF THE VISUAL GENERAL VERIFICATION. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS DRAWING OR FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE OF THIS DRAWING. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE OF THIS DRAWING. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE OF THIS DRAWING.

Professional Seal

- GENERAL NOTES:**
- LIGHT FIXTURE TYPE ZZ AND ZZ-1 SHALL BE CONTROLLED VIA INTEGRAL PHOTOCELL.
- WORK NOTES:**
- PROVIDE 2#12+1#12C IN 3/4" RIGID GALVANIZED CONDUIT FOR SITE POLE LIGHTING TO EXISTING PANEL MDP AS SHOWN.
 - SITE LIGHTING: REFER TO SITE ENGINEER DRAWINGS FOR SITE LIGHTING EXCAVATION SCOPE.
 - PROVIDE A WEATHER PROOF JUNCTION BOX FOR MOTORIZED GATE. PROVIDE 2#12+1#12 IN 3/4" RIGID GALVANIZED CONDUIT UNDERGROUND TO EXISTING PANEL MDP AS SHOWN. COORDINATE EXACT LOCATION OF JUNCTION BOX BEFORE THE START OF ANY WORK.
 - PROVIDE ASTRONOMIC TIME CLOCK FOR LIGHTING CONTROL WITH RESERVE POWER. TORQ 7200ZL SERIES. TIME CLOCK SHALL CONTROL PARKING LOT AND PLAYGROUND LIGHTING. TIME CLOCK SHALL BE PLACED IN NEMA 3R WEATHERPROOF LOCKABLE BOX.

No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

SITE ELECTRICAL PLAN

Job No.	2019-1026	Date	11/18/20
Scale	AS NOTED	Drawn / Checked	BGABGA

Sheet Number
E212

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NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

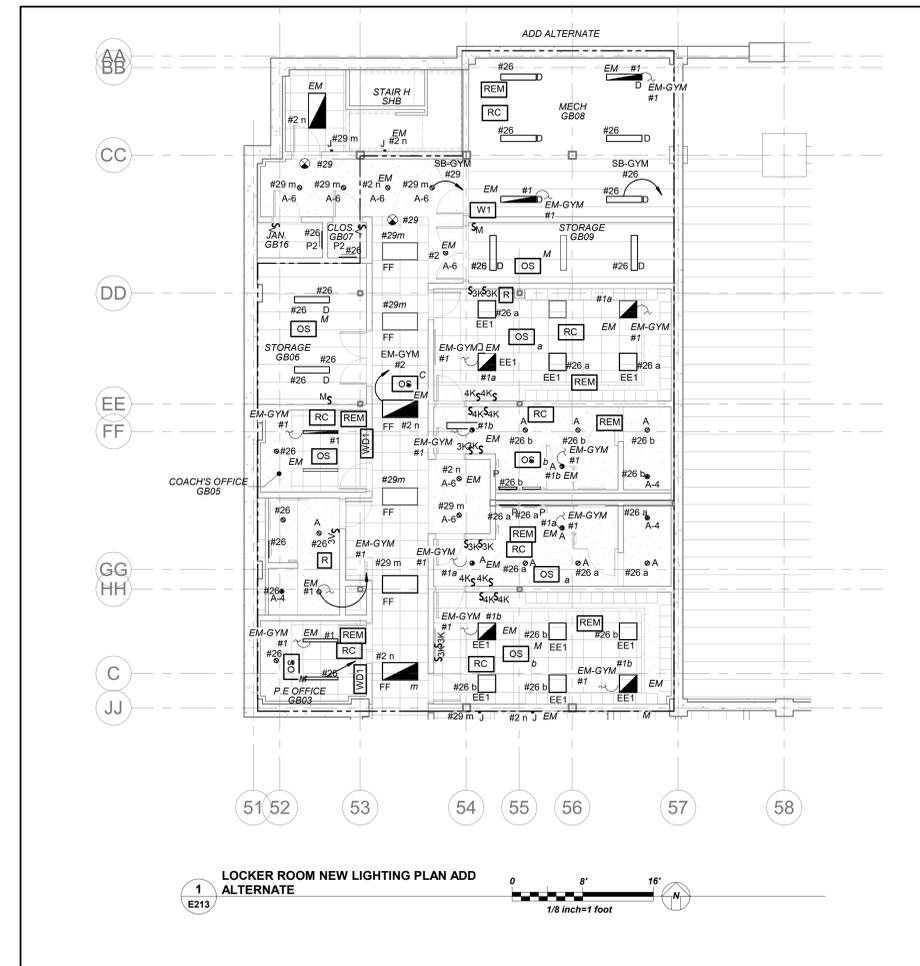
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CONSTRUCTION DOCUMENTS

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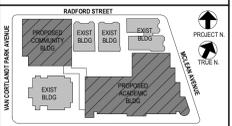
LOCKER ROOM NEW LIGHTING PLAN ADD ALTERNATE
1 E213

ELECTRICAL LIFE SAFETY AND EMERGENCY LIGHTING WORK SCOPE NOTES

1. PROVIDE NEW EXIT AND EMERGENCY LIGHTING AS REQUIRED BY CODE. PROVIDE NEW EXIT LIGHTS AND BRANCH CIRCUITRY TO SERVE EXIT LIGHTS.
2. ALL EMERGENCY LIGHTING ARE FED FROM GENERATOR WITH UL924 EMERGENCY LIGHTING RELAY TO BYPASS SWITCHING, WHICH BRINGS EMERGENCY LIGHTING FIXTURES TO FULL ILLUMINATION WHEN THERE IS A UTILITY POWER OUTAGE.

LIGHTING CONTROLS AND SEQUENCE OF OPERATION

1. MECHANICAL ROOMS NORMAL LIGHTS SHALL BE CONNECTED TO ROOM CONTROLLER AND SHALL BE CONTROLLED VIA LOCAL SWITCH ONLY. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
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NOTE: ALL LOCAL ZONING, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF INTER GARMENT & ASSOCIATES ARCHITECTS PC. THESE ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF IGAD.

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5	11/01/2021	ISSUED TO BID
4	09/14/2021	SED ADDENDUM 2
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. _____ Date _____ Issue _____
Sheet Title
COMM. WING-BASEMENT ELEC LIGHTING PLAN ADD ALTERNATE

Job No. 2019-1026 Date 10/18/21
Scale AS NOTED Drawn / Checked Author Checker

Sheet Number
E213

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
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66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS

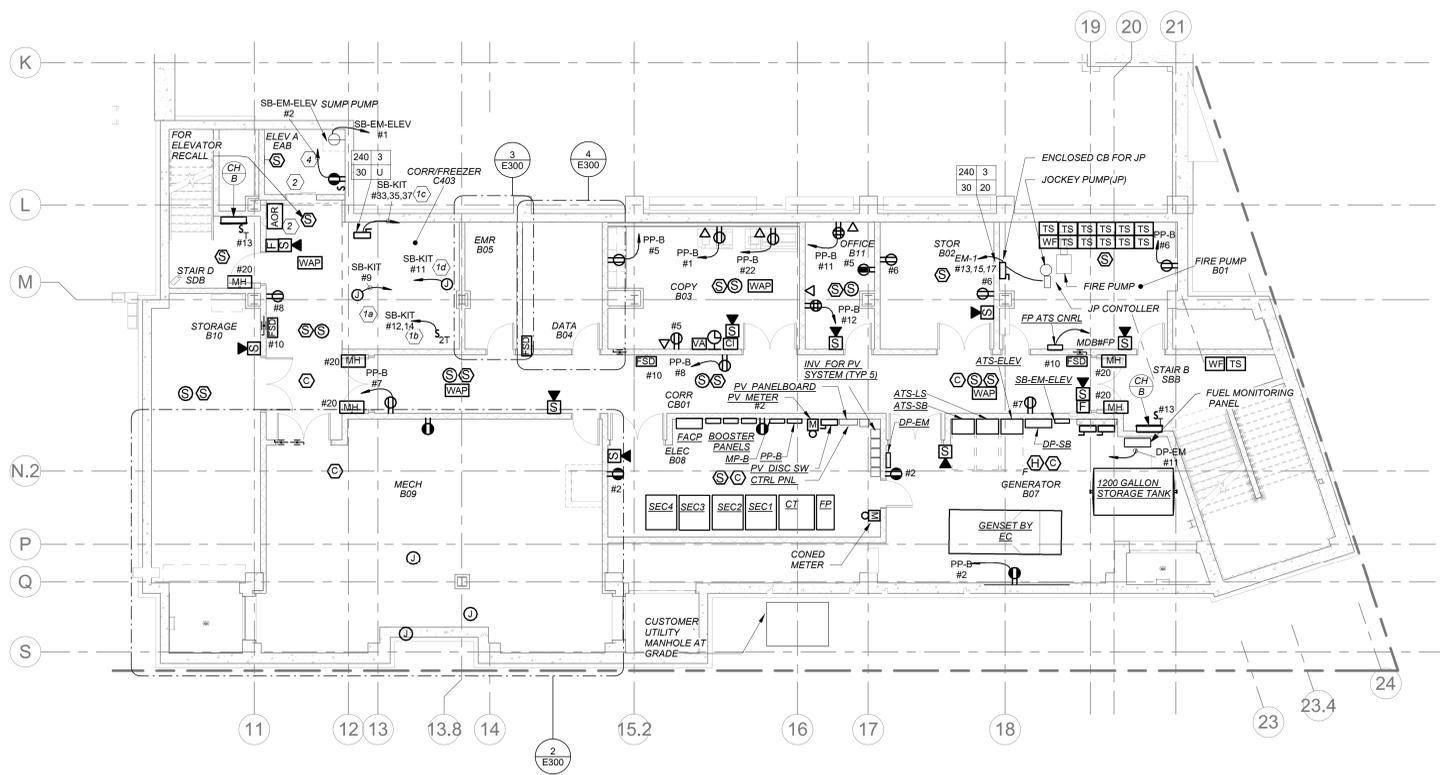
bga
BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
99 MARBLE AVE. PLEASANTVILLE, NY 10570
914.326.0099 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM

GENERAL NOTES:

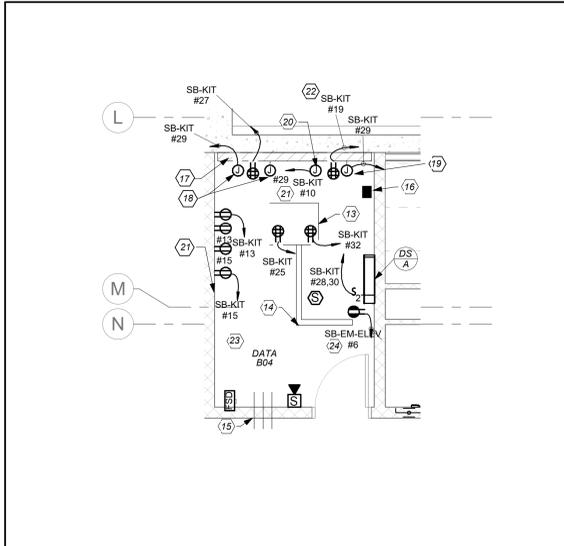
- REFER TO ELECTRICAL ONE-LINE DIAGRAMS ON DRAWING E300 SERIES, FOR SCOPE OF WORK.
- REFER TO PANELBOARD SCHEDULE ON DRAWING E300 SERIES FOR BRANCH CIRCUITING INFORMATION.
- REFER TO DRAWING E700 SERIES FOR DETAILS.

WORK NOTES:

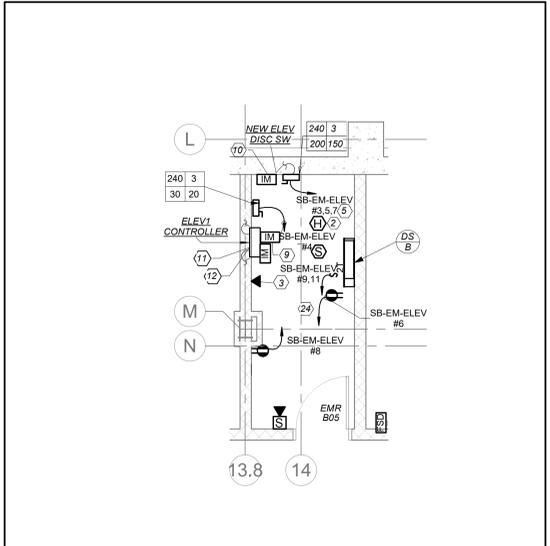
- PROVIDE THE FOLLOWING BRANCH CIRCUIT FOR WALK-IN FREEZER PER FOLLOWING:
 - CIRCUIT FOR NEW WALK-IN COOLER. VAPOR TIGHT LIGHT FIXTURE SHALL BE FURNISHED WITH FREEZER AND EC SHALL INSTALL AND WIRE. ACCOMMODATE ALL REQUIREMENTS FOR EXPANDING FOAM SEALANT INSIDE CONDUIT AT PANEL PENETRATIONS TO AVOID CONDENSATE ACCUMULATION INSIDE LIGHT FIXTURES. REFER TO DETAILS ON KITCHEN DRAWING KA SERIES FOR ADDITIONAL INFORMATION.
 - CIRCUIT FOR NEW WALK-IN COOLER EVAPORATOR COIL. COORDINATE IN FIELD FOR MOUNTING LOCATION. E.C. SHALL INSTALL & WIRE CONTROL WIRING FROM DEFROST TIME CLOCK TO DEFROST HEATER ON COOLER EVAPORATOR COIL.
 - CIRCUIT FOR NEW CONDENSING UNITS FOR WALK-IN FREEZER. COORDINATE IN FIELD FOR EXACT MOUNTING LOCATION.
 - E.C. TO CONNECT ELECTRIC HEAT WRAP TAPE ON FREEZE EVAPORATOR COIL DRAIN LINE FURNISHED BY OTHERS.
- BEFORE THE START OF ANY WORK EC, GC AND ELEVATOR VENDOR/TECH SHALL COORDINATE THE EXACT LAYOUT OF ELEVATOR EQUIPMENT AND DEVICES WITHIN EMR, ELEVATOR SHAFT TOP AND PIT. THIS INCLUDES AND IS NOT LIMITED TO RECEPTACLES, SWITCHES, LIGHTS, DISC SWITCHES ETC.
- PROVIDE DIRECT OUTSIDE PHONE LINE FROM ELEVATOR TO DATA ROOM.
- COORDINATE WITH ELEVATOR VENDOR FOR ALL ELEVATOR REQUIREMENTS AND INCLUDE ALL POWER AND CONTROL WIRING FOR A COMPLETE INSTALLATION. PROVIDE ALL POWER AND CONTROL WIRING REQUIRED BETWEEN ELEVATOR, ELEVATOR MACHINE ROOM AND GENERATOR ROOM.
- DISCONNECT SWITCH TO FEED ELEVATOR CAR. PROVIDE DRY CONTACT WITH 2#18 - 3/4" FROM DISCONNECT SWITCH TO ELEVATOR CONTROLLER.
- RESCUE ASSISTANCE SYSTEM. REFER TO RISER ON DRAWING E503
- DISCONNECT SWITCH FOR ELEVATOR CAR LIGHT. PROVIDE DRY CONTACT WITH 2#18 - 3/4" FROM DISCONNECT SWITCH TO ELEVATOR CONTROLLER.
- NOT USED
- PROVIDE FIRE ALARM CONTROL RELAY/INTERFACE MONITORING MODULE ONE FOR FIRE ALARM RECALL/ALTERNATE RECALL AND ONE FOR FIRE HAZARD HAT. MUST BE NORMALLY CLOSED AND CONNECTED TO SET OF DRY CONTACTS WITH CONTROLLER.
- PROVIDE FIRE ALARM CONTROL RELAY/INTERFACE MONITORING MODULE FOR DISCONNECT TO MONITOR THE POSITION OF MAINLINE DISCONNECT FOR GENERATOR BACKUP.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND CONTINUE FEEDER & CONDUIT CONNECTION FROM MAINLINE POWER DISCONNECT TO ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR VENDOR AND ARCHITECT BEFORE START OF WORK.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND CONTINUE FEEDER & CONDUIT CONNECTION FROM CAB LIGHT DISCONNECT TO ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR VENDOR AND ARCHITECT BEFORE START OF WORK.
- NEW 19" RACK. REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION.
- PROVIDE LADDER 12" WIDE X 12" RUNG SPACING IN CLOSET CONNECTING TO RACK. REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION.
- PROVIDE NEW (3) 4" CONDUIT SLEEVE THROUGH WALL TO ABOVE CORRIDOR CEILING FOR NEW HORIZONTAL CABLING PATHWAY.
- FOR FLOOR PENETRATION PROVIDE ONE (1) STILEZ PATH #F-A-3054 FIRE STOP DEVICE MODULE. COORDINATE PENETRATION WITH STRUCTURAL ENGINEER BEFORE START OF ANY WORK.
- PROVIDE TWO (2) NEW 4'X3'X3/4" PLYWOOD PAINTED BLACK WITH FIRE RETARDANT PAINT. COORDINATE EXACT MOUNTING LOCATION WITH YONKERS IT DEPT. AND ITS LARSON BEFORE START OF ANY WORK.
- PROVIDE JUNCTION BOX FOR TWO (2) LOCK P/S REFER TO ITS LARSON DRAWINGS SE-300 AND COORDINATE WITH ITS LARSON BEFORE START OF ANY WORK.
- PROVIDE JUNCTION BOX FOR ILDA INTERFACE REFER TO ITS LARSON DRAWINGS SE-300
- PROVIDE JUNCTION BOX FOR BURGLAR ALARM INTERFACE REFER TO ITS LARSON BEFORE START OF ANY WORK.
- PROVIDE FOR CCTV DATA RACK. REFER TO ITS LARSON DRAWINGS SE-300.
- THESE RECEPTACLES ARE FOR IT EQUIPMENT. COORDINATE WITH YONKERS IT DEPT FOR EXACT MOUNTING LOCATIONS BEFORE START OF ANY WORK.
- THIS CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING INTERCONNECTION FOR IT AND SECURITY FROM ALL DEVICES TO PATCH PANEL INCLUDING BUT NOT LIMITED TO DEVICE INSTALLATION, SUPPORT BRACKETS, JUNCTION BOXES, WIRING SUPPORTS, LABELING TAGGING ETC. REFER TO ITS LARSON DRAWINGS SERIES 'SE' FOR ALL REQUIREMENTS INCLUDED IN THIS CONTRACTORS SCOPE.
- PROVIDE CEILING MOUNTED GFI OUTLET FOR CONDENSATE PUMP COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR BEFORE INSTALLING THE OUTLET.



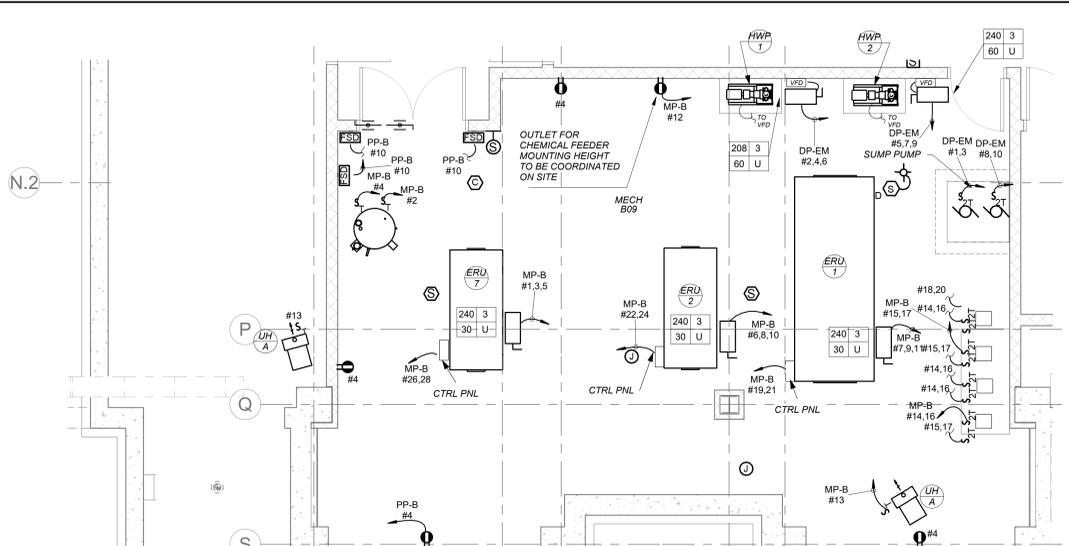
1 BASEMENT POWER AND FA PLAN
Scale: 1/8 inch=1 foot



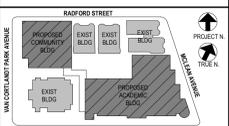
4 DATA ROOM DETAIL
Scale: 1/4 inch=1 foot



3 ELEV MACHINE ROOM
Scale: 1/4 inch=1 foot



2 MECHANICAL ROOM PART PLAN
Scale: 1/4 inch=1 foot



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Professional Seal

No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

BASEMENT POWER AND FA PLAN

Job No. 2019-1026 Date 8/31/20
Scale AS NOTED Drawn / Checked BGA/BGA
Sheet Number

E300

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



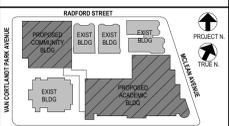
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NY SED PROJECT CONTROL NO.
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CONSTRUCTION DOCUMENTS



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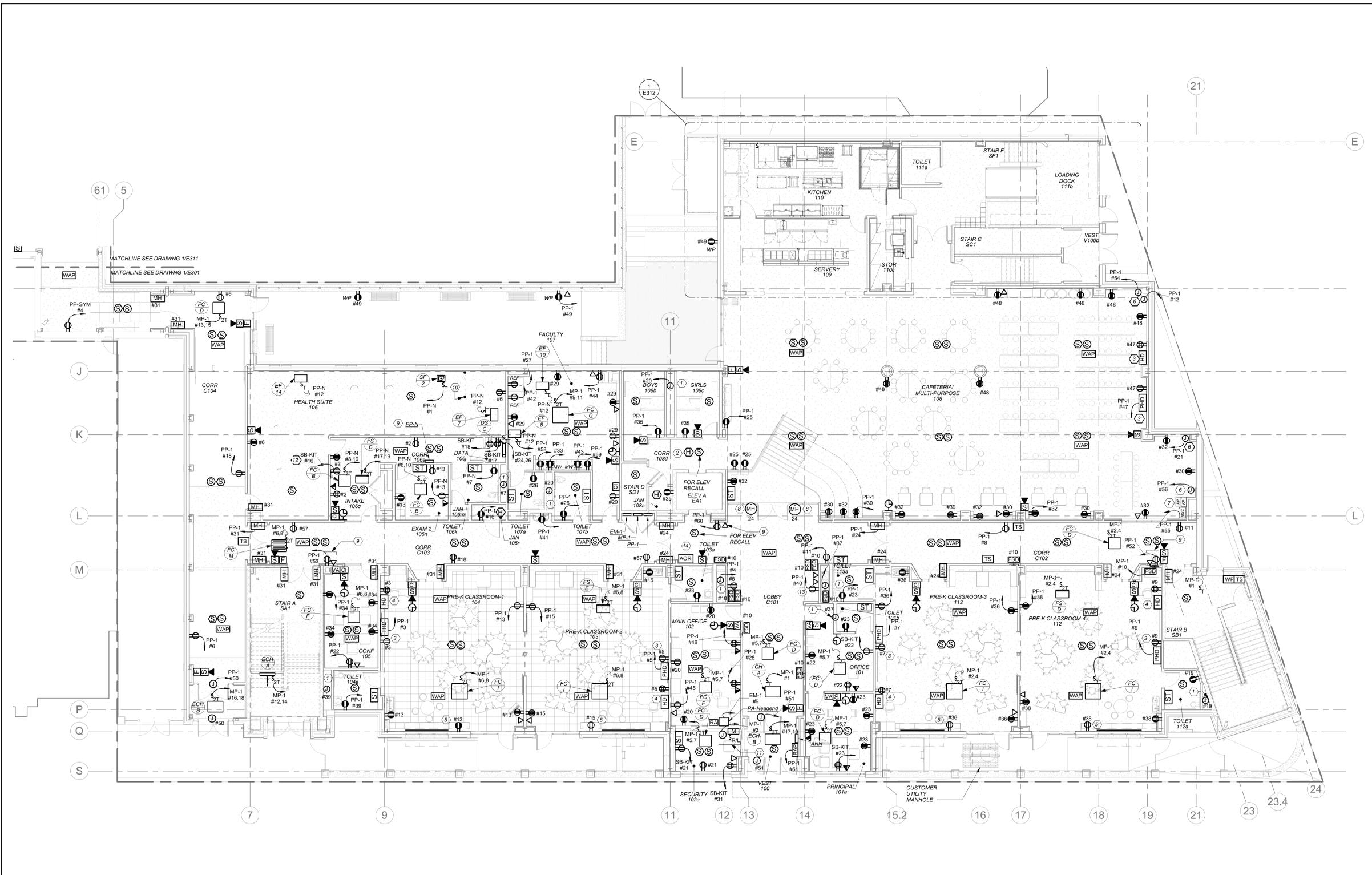
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No.	Date	Issue
1	08/31/2020	SCHEMATIC DESIGN
2	07/14/2021	CONSTRUCTION DOCS-NYSED
3	07/14/2021	FOR PERMITS
4	08/31/2020	DESIGN DEVELOPMENT
5	08/31/2020	SCHEMATIC DESIGN

Sheet Title
1st FLOOR POWER AND FA PLAN

Job No.	2019-1026	Date	8/31/20
Scale	AS NOTED	Drawn / Checked	BGA/BGA
Sheet Number	E301		



1 1st FLOOR POWER AND FA PLAN
E301

0 8' 16'
1/8 inch=1 foot

WORK NOTES:

- ① ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF JUNCTION BOX TO SERVE THE POWER SUPPLY FOR AUTOMATIC FLUSH VALVE PRIOR TO THE START OF ANY WORK WITH PLUMBING CONTRACTOR. POWER SUPPLY FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL THE 120V CIRCUIT AND ALL LOW VOLTAGE WIRING ON THE LOAD SIDE OF POWER SUPPLY BY PLUMBING CONTRACTOR.
- ② NOT USED.
- ③ PROVIDE DUPLEX RECEPTACLES 18" AFF CENTERED DIRECTLY BELOW "PHD". COORDINATE LOCATION OF SMART BOARD AND DUPLEX RECEPTACLE WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- ④ COORDINATE EXACT LOCATION AND MOUNTING HEIGHT FOR THE TEACHER'S DESK WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- ⑤ COUNTER HEIGHT RECEPTACLE. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT/OWNER BEFORE THE START OF ANY WORK.
- ⑥ PROVIDE CEILING MOUNTED JUNCTION BOXES FOR MOTORIZED SHADES AT EACH WINDOW IN THE CAFETERIA. COORDINATE WITH SHADE MANUFACTURER FOR EXACT REQUIREMENTS. ELECTRICAL CONTRACTOR TO PROVIDE ALL INTER-CONNECTIONS BETWEEN THE MOTOR AND CONTROLLER. COORDINATE WITH ARCHITECT/OWNER BEFORE START OF ANY WORK. REFER TO DETAIL 2 ON DRAWING E705 FOR ADDITIONAL INFORMATION.
- ⑦ LOCATION FOR MOTORIZED SHADES CONTROLLER AND KEY PAD. EXACT LOCATION TO BE CONFIRMED WITH ARCHITECT BEFORE START OF ANY WORK.
- ⑧ ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL FLOOR MOUNTED MAGNETIC DOOR HOLDERS. COORDINATE ALL FLOOR TRENCHING AND EXACT LOCATIONS WITH ARCHITECT BEFORE START OF ANY WORK.

- ⑨ THE DUPLEX RECEPTACLE AND DATA DROP IS FOR A WALL MOUNTED DISPLAY SCREEN. EXACT MOUNTING HEIGHT SHOULD BE COORDINATED WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- ⑩ PROVIDE 1" CONDUIT STUBBED UP IN FLOOR 4" ABOVE GRADE AND STUBBED UP 6" ABOVE CEILING. INSTALL PRIOR TO CONCRETE SLAB BEING POURED.
- ⑪ PROVIDE POWER FOR FIRE SHUTTERS AND INTERCONNECT WITH RAISE AND LOWER SWITCH. FIRE SHUTTER SHALL BE INTERCONNECTED WITH FIRE ALARM VIA INTERFACE MODULE AS SHOWN. COORDINATE FINAL LOCATION WITH VENDOR AND CONSTRUCTION MANAGER.
- ⑫ APPROX LOCATION FOR THE REFRIGERATOR. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT/OWNER BEFORE START OF ANY WORK.
- ⑬ LOCATION FOR SOLAR POWER DISPLAY UNIT. PROVIDE (1) POWER AND (2) DATA DROPS. PROVIDE (1) CAT 6 CABLE FROM THIS LOCATION TO THE SOLAR CONTROL PANEL LOCATED IN THE MAIN ELECTRICAL ROOM IN BASEMENT LEVEL AND (1) CAT 6 CABLE FROM THIS LOCATION TO THE MDF LOCATED IN THE BASEMENT LEVEL. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT/OWNER BEFORE START OF ANY WORK.
- ⑭ RESCUE ASSISTANCE SYSTEM. REFER TO RISER ON DRAWING E503

GENERAL NOTES:

1. REFER TO ELECTRICAL POWER RISER ON DRAWING E501 FOR SCOPE OF WORK FOR FIRE ALARM RISER DIAGRAM. REFER TO DRAWING E502.
2. REFER TO DRAWINGS E600 SERIES FOR PANELBOARD SCHEDULES FOR CIRCUITING INFORMATION.
3. REFER TO DRAWINGS E700 SERIES FOR DETAILS.
4. ELECTRICAL CONTRACTOR TO COORDINATE EXACT MOUNTING HEIGHTS OF SMART BOARD POWER AND DATA WITH ARCHITECT/OWNER BEFORE START OF ANY WORK.
5. ALL STANDBY RECEPTACLES FED FROM STANDBY PANELS SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
6. ALL MAGNETIC HOLDERS TO BE FURNISHED BY GENERAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

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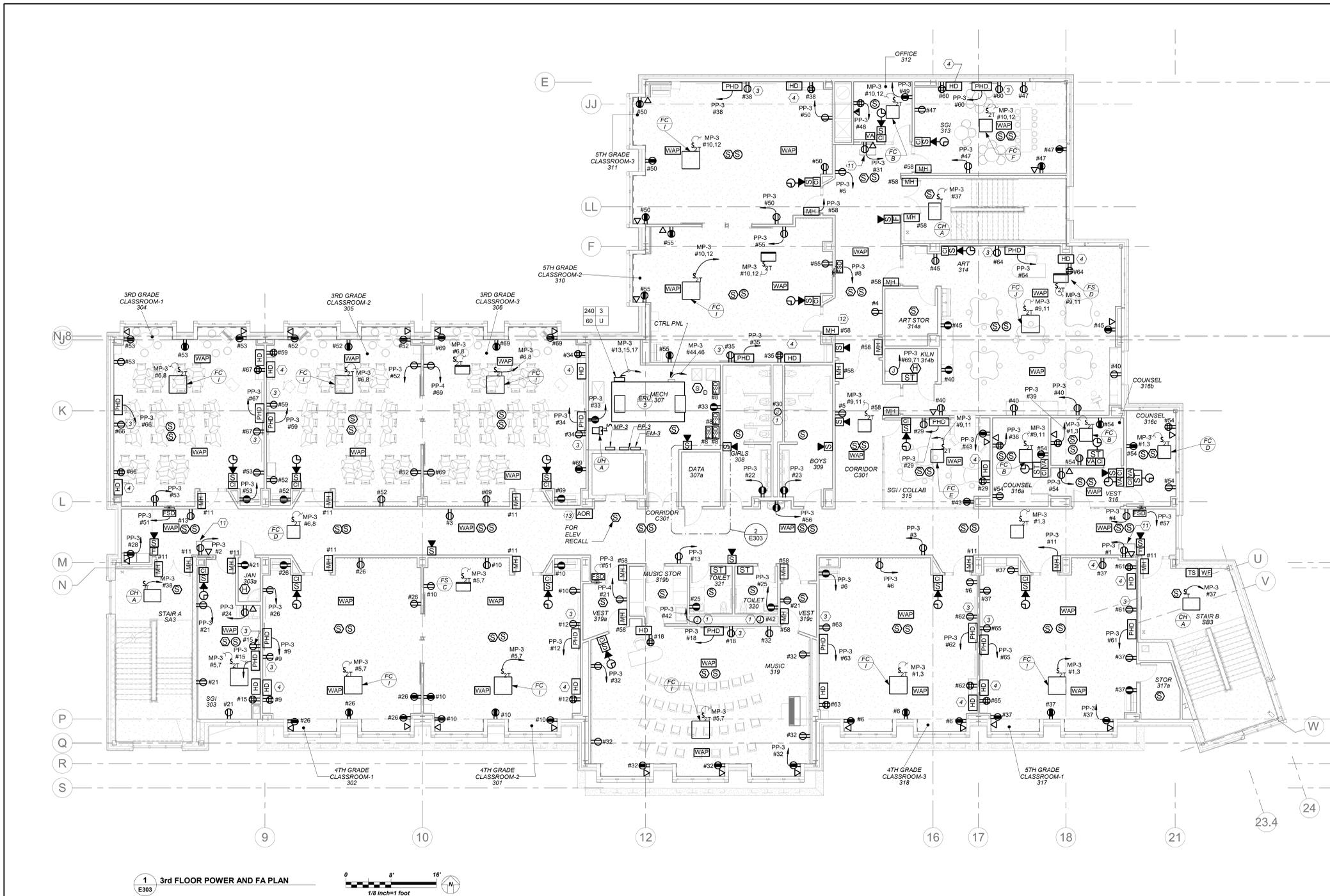
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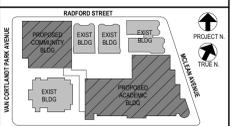
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1 3rd FLOOR POWER AND FA PLAN
E303



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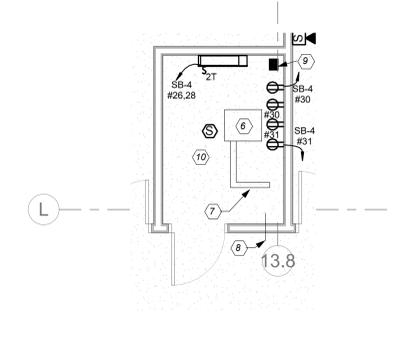
GENERAL NOTES:

- REFER TO ELECTRICAL POWER RISER ON DRAWING E501 FOR SCOPE OF WORK. FOR FIRE ALARM RISER DIAGRAM, REFER TO DRAWING E502.
- REFER TO DRAWINGS E600 SERIES FOR PANELBOARD SCHEDULES FOR BRANCH CIRCUITING INFORMATION.
- REFER TO DRAWINGS E700 SERIES FOR DETAILS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF SMART BOARD POWER AND DATA WITH ARCHITECT/OWNER BEFORE START OF ANY WORK.
- ALL STANDBY RECEPTACLES FED FROM STANDBY PANELS SHALL BE RED IN COLOR FOR VISUAL IDENTIFICATION.

WORK NOTES:

- ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF JUNCTION BOX TO SERVE THE POWER SUPPLY FOR AUTOMATIC FLUSH VALVE PRIOR TO THE START OF ANY WORK WITH PLUMBING CONTRACTOR. POWER SUPPLY FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL THE 120V CIRCUIT AND ALL LOW VOLTAGE WIRING ON THE LOAD SIDE OF POWER SUPPLY BY PLUMBING CONTRACTOR.
- NOT USED.
- PROVIDE DUPLEX RECEPTACLES 18" AFF CENTERED DIRECTLY BELOW "PHD". COORDINATE LOCATION OF SMART BOARD AND DUPLEX RECEPTACLE WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- COORDINATE EXACT LOCATION AND MOUNTING HEIGHT FOR THE TEACHER'S DESK "HD" WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- COUNTER HEIGHT RECEPTACLE. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT/OWNER BEFORE THE START OF ANY WORK.
- NEW 19" RACK. REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION. RESERVE 2U RACK SPACE FOR SECURITY PATCH PANEL.
- PROVIDE LADDER 12" WIDE X 12" RUNG SPACING IN CLOSET CONNECTING TO RACK. REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION.
- PROVIDE NEW 4" CONDUIT SLEEVE THROUGH WALL TO ABOVE CORRIDOR CEILING FOR NEW HORIZONTAL CABLING PATHWAY.
- FOR FLOOR PENETRATION PROVIDE ONE (1) STI-EZ PATH #F-A-3054 FIRE STOP DEVICE MODULE. COORDINATE PENETRATION WITH STRUCTURAL ENGINEER BEFORE START OF ANY WORK.
- THIS CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING INTERCONNECTION FOR IT AND SECURITY FROM ALL DEVICES TO PATCH PANEL INCLUDING BUT NOT LIMITED TO DEVICE INSTALLATION, SUPPORT BRACKETS, JUNCTION BOXES, WIRING SUPPORTS, LABELING TAGGING ETC. REFER TO ITS LARSON DRAWINGS SERIES "SE" FOR ALL REQUIREMENTS INCLUDED IN THIS CONTRACTOR'S SCOPE.
- THE DUPLEX RECEPTACLE AND DATA DROP IS FOR A WALL MOUNTED DISPLAY SCREEN. EXACT MOUNTING HEIGHT SHOULD BE COORDINATED WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- COORDINATE MAGNETIC DOOR HOLDER LOCATIONS WITH DOOR VENDOR BEFORE THE START OF ANY WORK.
- RESCUE ASSISTANCE SYSTEM. REFER TO RISER ON DRAWING E503

2 3rd FLOOR DATA ROOM
E303



BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

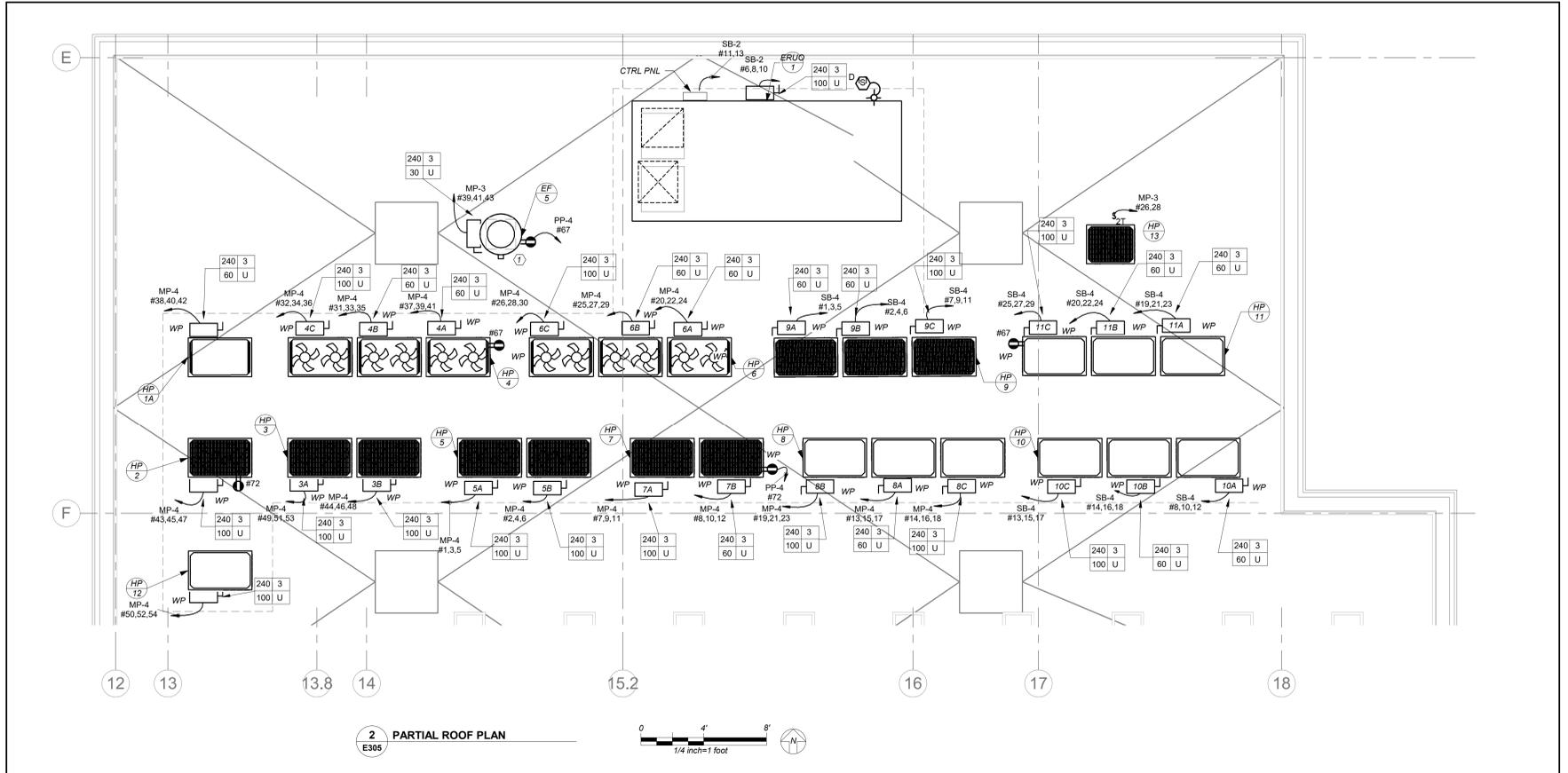
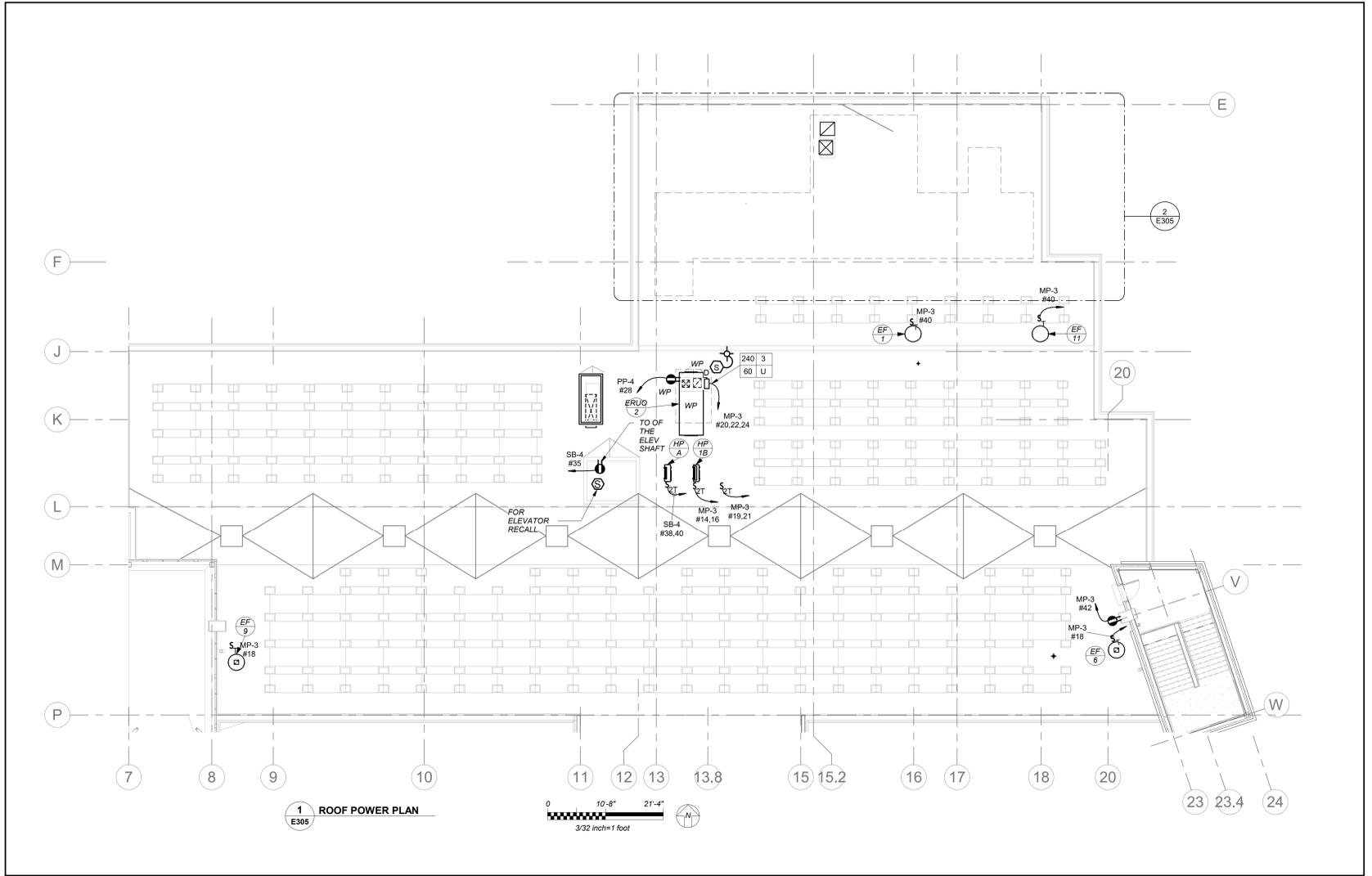
No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

3rd FLOOR POWER AND FA PLAN

Job No. 2019-1026 Date 8/31/20
Scale AS NOTED Drawn / Checked BGA/BGA
Sheet Number

E303

WORK NOTES:
 ① VFD FOR EF-5 IS LOCATED IN KITCHEN 110 ON FIRST FLOOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL INTERCONNECTIONS BETWEEN EF-5, VFD, AND DISCONNECT SWITCH FOR A COMPLETE OPERATIONAL SYSTEM. COORDINATE EXACT LOCATION OF VFD WITH MECHANICAL CONTRACTOR BEFORE THE START OF ANY WORK.



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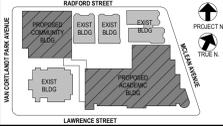
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CONSTRUCTION DOCUMENTS

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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS&D
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

ROOF POWER PLAN

Job No. 2019-1026 Date 06/25/21
 Scale AS NOTED Drawn / Checked BGA/BGA
 Sheet Number

E305

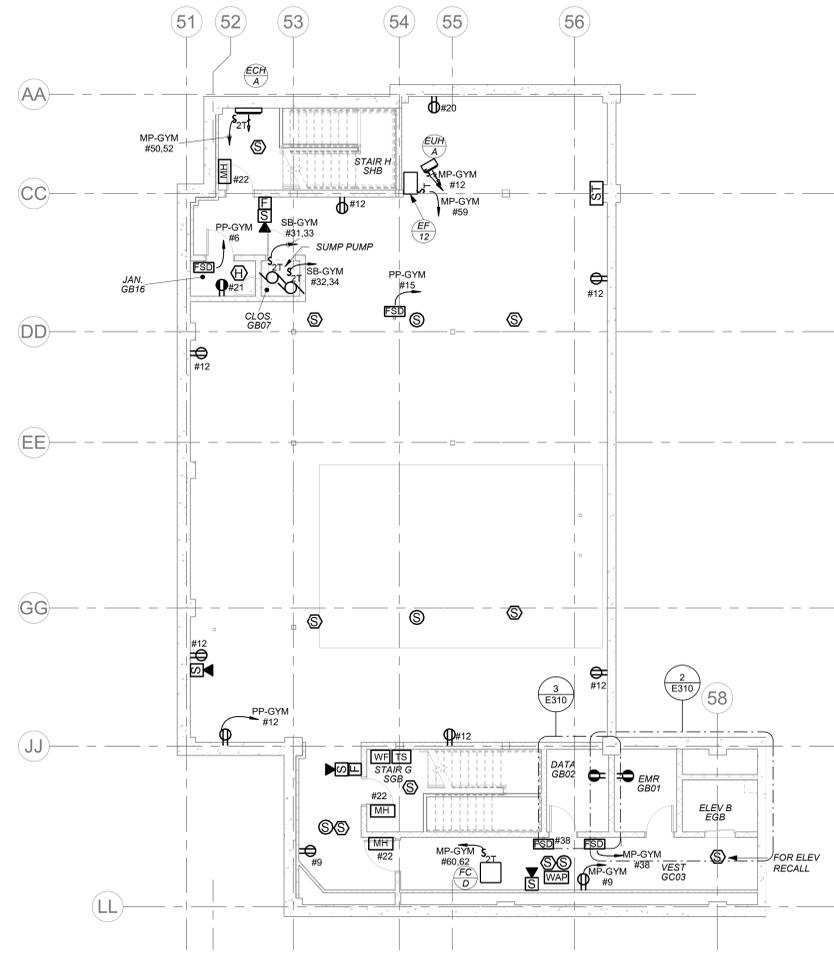
GENERAL NOTES:

- REFER TO ELECTRICAL ONE-LINE DIAGRAMS ON DRAWING E500 SERIES, FOR SCOPE OF WORK.
- REFER TO PANELBOARD SCHEDULE ON DRAWING E600 SERIES FOR BRANCH CIRCUITING INFORMATION.
- REFER TO DRAWING E700 SERIES FOR DETAILS.

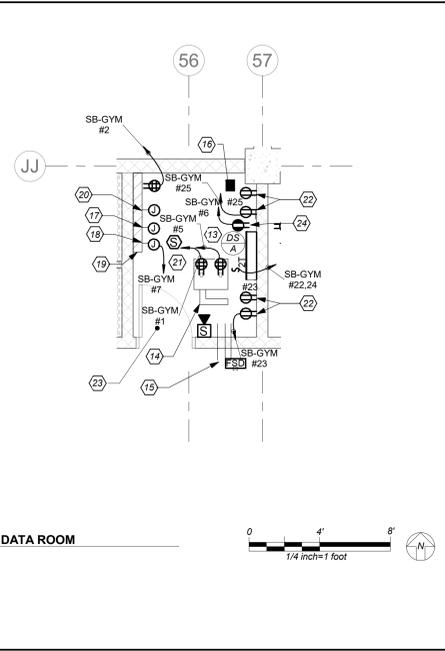
WORK NOTES:

- BEFORE THE START OF ANYWORK EC, GC AND ELEVATOR VENDOR/TECH SHALL COORDINATE THE EXACT LAYOUT OF ELEVATOR EQUIPMENT AND DEVICES WITHIN EMR, ELEVATOR SHAFT TOP AND PIT. THIS INCLUDED AND NOT LIMITED TO RECEPTACLES, SWITCHES, LIGHTS, DISC SWITCHES, ETC.
- PROVIDE DIRECT OUTSIDE PHONE LINE FROM ELEVATOR TO DATA ROOM.
- COORDINATE WITH ELEVATOR VENDOR FOR ALL ELEVATOR REQUIREMENTS INCLUDING ALL POWER AND CONTROL WIRING FOR A COMPLETE INSTALLATION. PROVIDE ALL POWER AND CONTROL WIRING REQUIRED BETWEEN ELEVATOR AND ELEVATOR MACHINE ROOM.
- DISCONNECT SWITCH TO FEED ELEVATOR CAR. PROVIDE DRY CONTACT WITH 2#18 - 3/4" FROM DISCONNECT SWITCH TO ELEVATOR CONTROLLER.
- NOT USED.
- DISCONNECT SWITCH FOR ELEVATOR CAR LIGHT. PROVIDE DRY CONTACT WITH 2#18 - 3/4" FROM DISCONNECT SWITCH TO ELEVATOR CONTROLLER.
- NOT USED.
- NOT USED.
- PROVIDE FIRE ALARM CONTROL RELAY/INTERFACE MONITORING MODULE. ONE FOR FIRE ALARM RECALL/ALTERNATE RECALL AND ONE FOR FIRE HAZALT HAT. MUST BE NORMALLY CLOSED AND CONNECTED TO SET OF DRY CONTACTS WITH CONTROLLER.
- PROVIDE FIRE ALARM CONTROL RELAY/INTERFACE MONITORING MODULE FOR DISCONNECT TO MONITOR.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND CONTINUE FEEDER & CONDUIT CONNECTION FROM MAINLINE POWER DISCONNECT TO ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR VENDOR AND ARCHITECT BEFORE START OF WORK.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND CONTINUE FEEDER & CONDUIT CONNECTION FROM CAB LIGHT DISCONNECT TO ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR VENDOR AND ARCHITECT BEFORE START OF WORK.

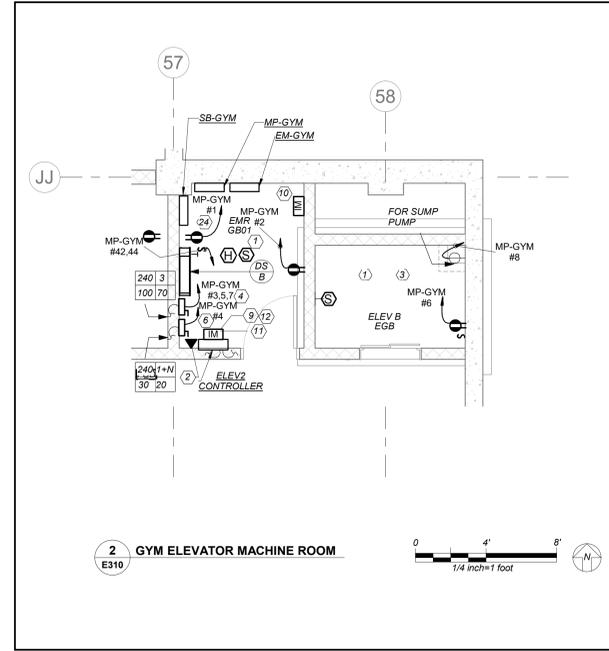
- NEW 19" RACK. REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION.
- PROVIDE LADDER 12" WIDE X 12" RUNG SPACING INCLOSET CONNECTING TO RACK. REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION.
- PROVIDE NEW (3) 4" CONDUIT SLEEVE THROUGH WALL TO ABOVE CORRIDOR CEILING FOR NEW HORIZONTAL CABLING PATHWAY.
- FOR FLOOR PENETRATION PROVIDE ONE (1) STI EZ PATH #F-A-3054 FIRE STOP DEVICE MODULE. COORDINATE PENETRATION WITH STRUCTURAL ENGINEER BEFORE START OF ANY WORK.
- PROVIDE JUNCTION BOX FOR LOCK P/S REFER TO ITG LARSON DRAWINGS SE-300
- PROVIDE JUNCTION BOX FOR ILDA P/S REFER TO ITG LARSON DRAWINGS SE-300
- PROVIDE ONE (1) NEW 4'X8'X3/4" PLYWOOD PAINTED BLACK WITH FIRE RETARDANT PAINT.
- PROVIDE JUNCTION BOX FOR BURGLAR ALARM INTERFACE REFER TO ITG LARSON BEFORE START OF ANYWORK.
- PROVIDE FOR CCTV ON DATA RACK. REFER TO ITG LARSON DRAWINGS SE-300
- THESE RECEPTACLES ARE FOR IT EQUIPMENT. COORDINATE WITH YONKERS IT DEPT FOR EXACT MOUNTING LOCATIONS BEFORE START OF ANY WORK.
- THIS CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING INTERCONNECTION FOR IT AND SECURITY FROM ALL DEVICES TO PATCH PANEL INCLUDING BUT NOT LIMITED TO DEVICE INSTALLATION, SUPPORT BRACKETS, JUNCTION BOXES, WIRING SUPPORTS, LABELING TAGGING ETC. REFER TO ITG LARSON DRAWINGS SERIES 'SE' FOR ALL REQUIREMENTS INCLUDED IN THIS CONTRACTORS SCOPE.
- PROVIDE CEILING MOUNTED GFI OUTLET FOR CONDENSATE PUMP COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR BEFORE INSTALLING THE OUTLET.



1 GYM BLDG BASEMENT POWER AND FA PLAN
E310



3 GYM DATA ROOM
E310



2 GYM ELEVATOR MACHINE ROOM
E310

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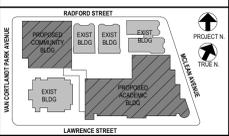
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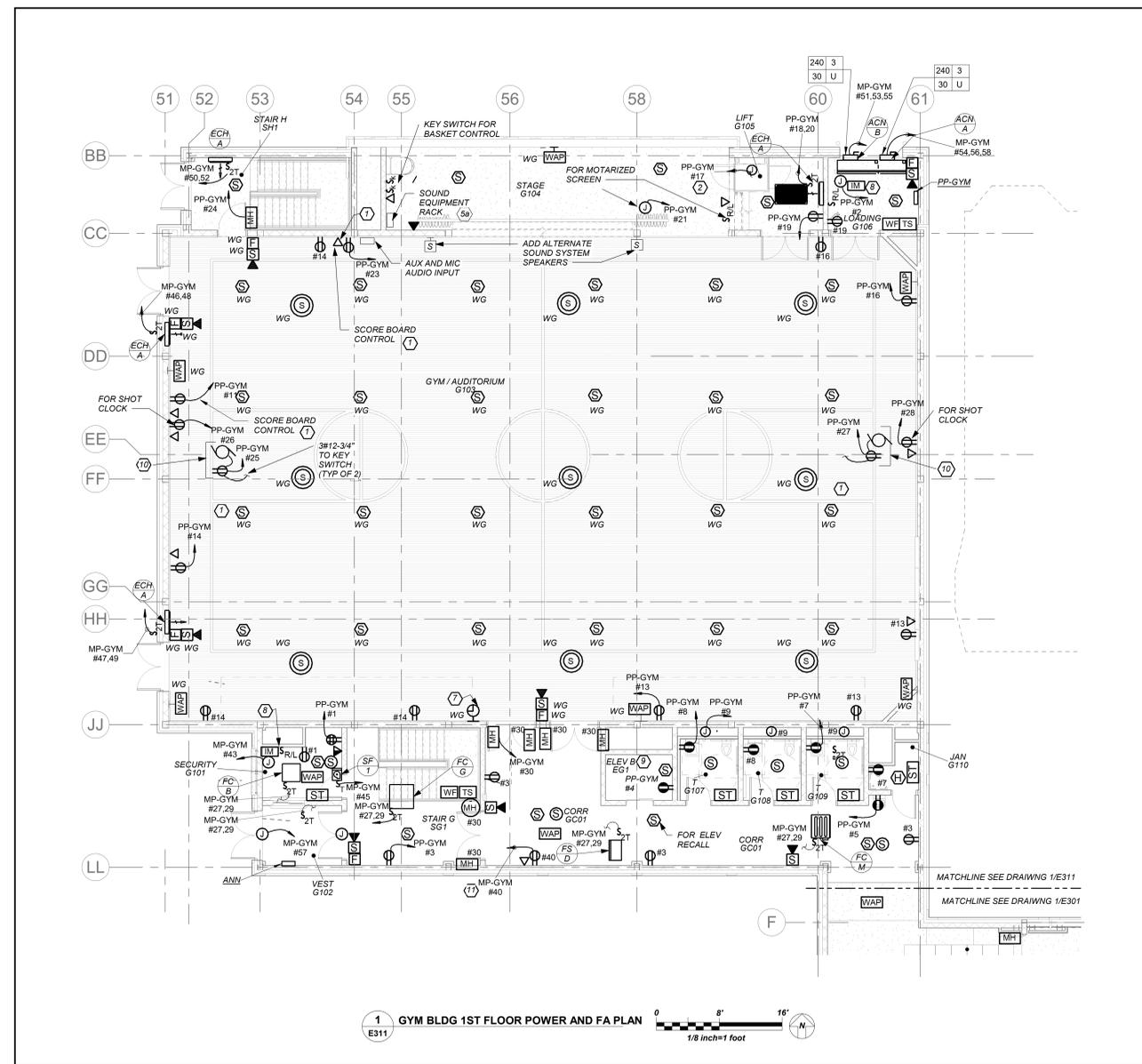
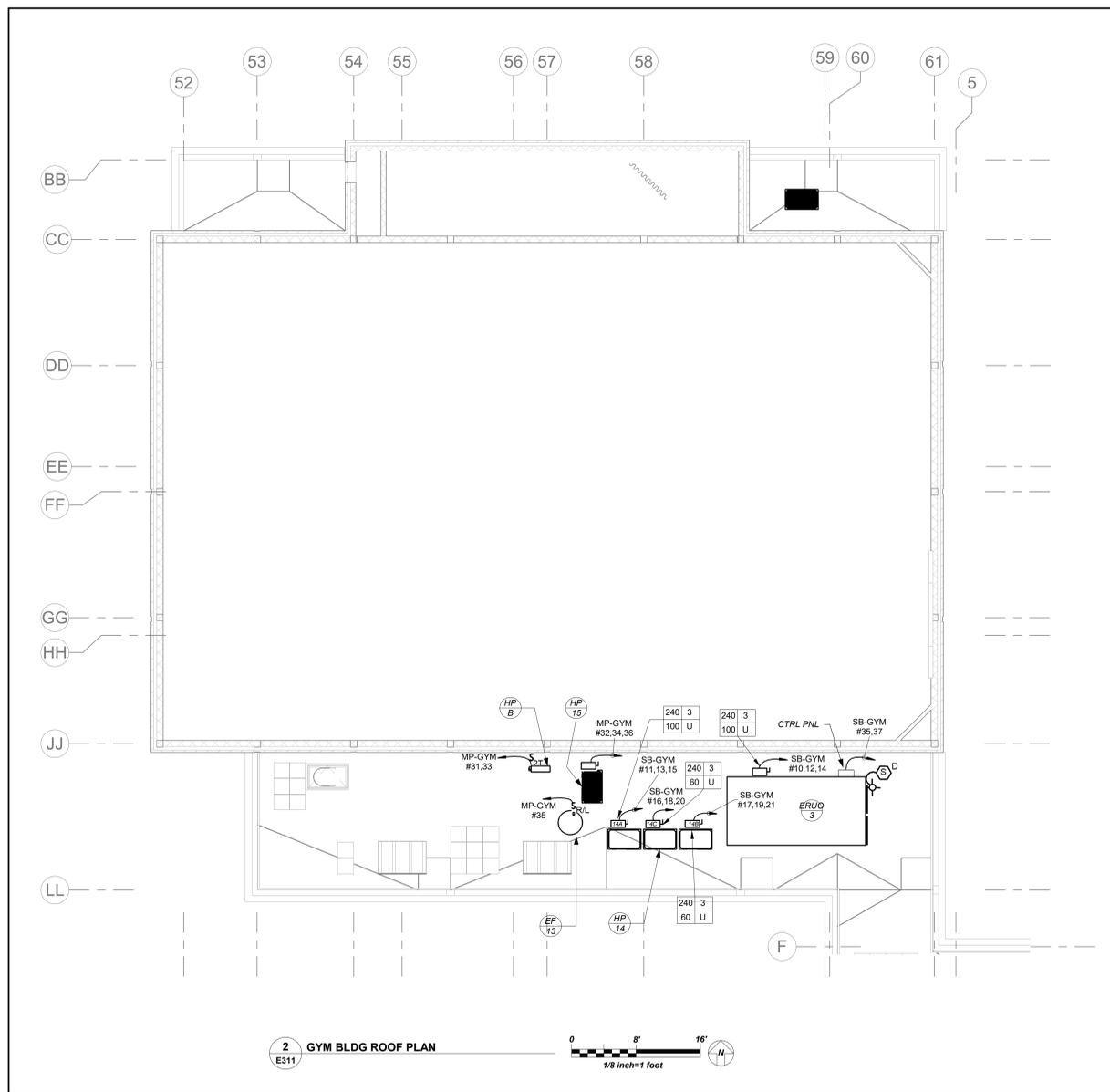
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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

COMM.WING BASEMENT POWER AND FA PLAN

Job No. 2019-1026 Date 8/31/20
Scale AS NOTED Drawn / Checked BGA/BGA
Sheet Number

E310



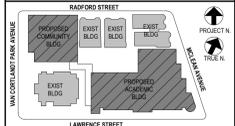
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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS&D
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Professional Seal

COMM. WING 1ST FLOOR POWER AND FA PLAN

Job No. 2019-1026 Date 8/31/20
 Scale AS NOTED Drawn / Checked BGA/BGA
 Sheet Number

E311

- GENERAL NOTES:**
- REFER TO ELECTRICAL ONE LINE DIAGRAMS ON DRAWING E300 SERIES, FOR SCOPE OF WORK.
 - REFER TO PANELBOARD SCHEDULE ON DRAWING E600 SERIES FOR BRANCH CIRCUITING INFORMATION.
 - REFER TO DRAWING E700 SERIES FOR DETAILS.
- WORK NOTES:**
- COORDINATE EXACT MOUNTING HEIGHT LOCATION FOR SHOT CLOCK AND SCOREBOARD WITH ARCHITECT BEFORE START OF ANYWORK
 - PROVIDE 20AMP DEDICATE CIRCUIT FOR THE STAGE LIFT. COORDINATE ALL WORK WITH GENERAL CONTRACTOR BEFORE START OF ANY WORK
 - NOT USED
 - PROVIDE DEDICATED CIRCUIT TO THE MOTORIZED SCREEN. EC TO COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
 - SOUND SYSTEM FOR GYM/AUDITORIUM: ALL WORK ASSOCIATED WITH SOUND SYSTEM TO BE **ADD ALTERNATE**.
 - (5a) WALL MOUNTED EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT/ GENERAL CONTRACTOR BEFORE STAR OF ANY WORK.
 - (5b) LOCATION FOR THE WALL MOUNT LOUD SPEAKERS MOUNTED 16" AFF COORDINATE EXACT LOCATION WITH ARCHITECT/ GENERAL CONTRACTOR BEFORE STAR OF ANY WORK.
 - (5c) LOCATION OF AUXILIARY AND MIC AUDIO INPUT PLATE MOUNTED 18" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT/ GENERAL CONTRACTOR BEFORE STAR OF ANY WORK.
 - WAP'S SHALL BE MOUNTED 15" AFF. HOWEVER COORDINATE EXACT MOUNTING HEIGHT WITH OWNER PRIOR TO START OF ANY WORK.
 - PROVIDE NEW 16" WALL CLOCK WITH WIRE GUARD.
 - PROVIDE POWER FOR FIRE SHUTTERS AND INTERCONNECT WITH RAISE AND LOWER SWITCH. FIRE SHUTTER SHALL BE INTERCONNECTED WITH FIRE ALARM VIA INTERFACE MODULE AS SHOWN. COORDINATE FINAL LOCATION WITH VENDOR AND CONSTRUCTION MANAGER.
 - PROVIDE RECEPTACLE AND SMOKE DETECTOR AT TOP OF SHAFT. COORDINATE EXACT MOUNTING LOCATION WITH ELEVATOR VENDOR BEFORE START OF ANY WORK.
 - COORDINATE EXACT MOUNTING LOCATION OF OUTLET AND KEY SWITCH FOR WINCH WITH EQUIPMENT VENDOR AND GC BEFORE START OF ANY WORK
 - THE DUPLEX RECEPTACLE AND DATA DROP IS FOR A WALL MOUNTED DISPLAY SCREEN. EXACT MOUNTING HEIGHT SHOULD BE COORDINATED WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.

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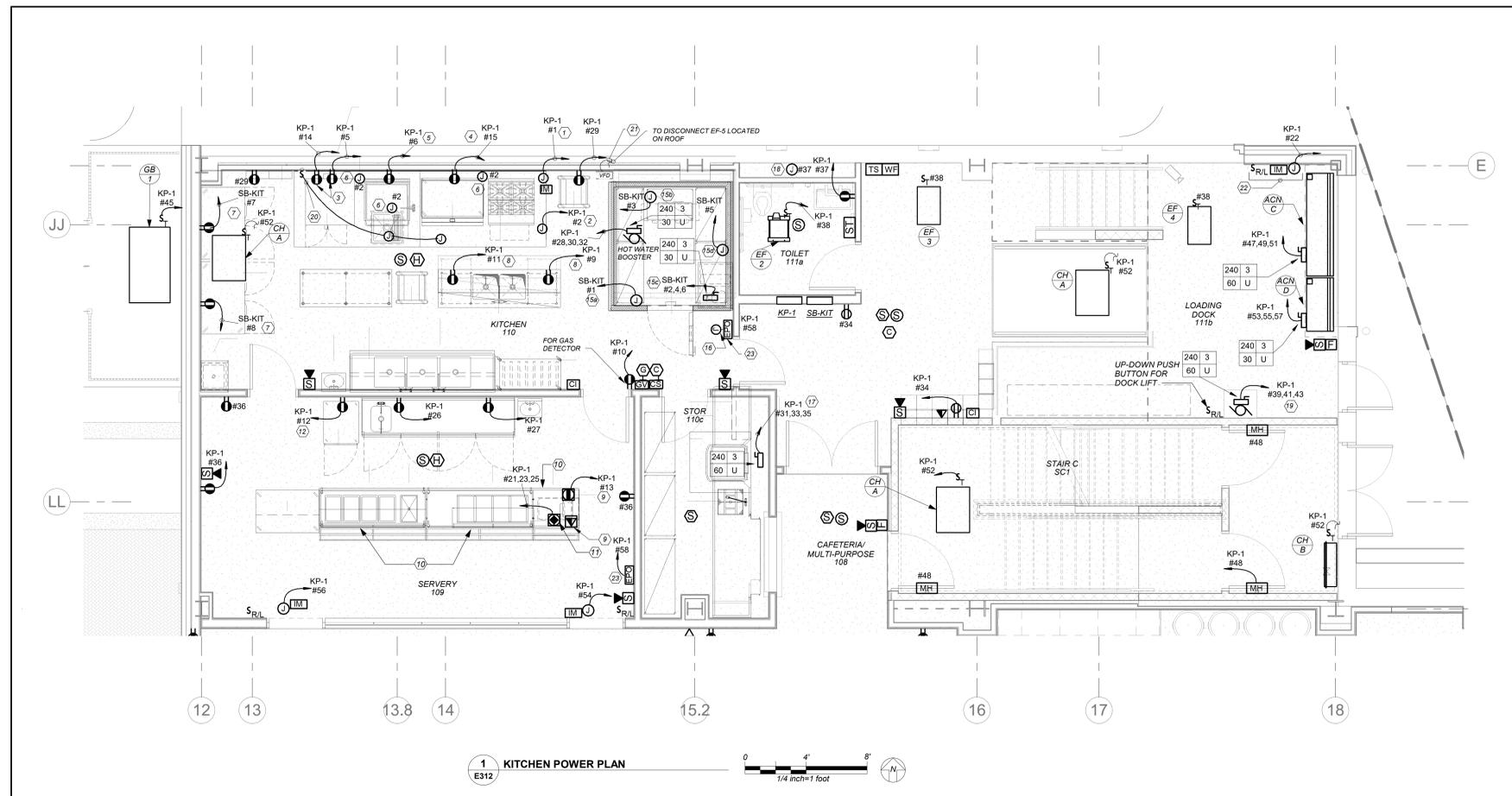
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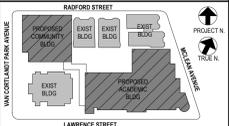
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1 KITCHEN POWER PLAN
E312

WORK NOTES:

- 1 PROVIDE JUNCTION BOX FOR FIRE SUPPRESSION ANSUL SYSTEM. EXTEND CONDUIT AND WIRING FROM ANSUL SYSTEM SOLENOID GAS SHUT OFF VALVE, SHUNT TRIP BREAKER IN PANEL AND BUILDING FIRE ALARM SYSTEM. INTERWIRE WITH EXHAUST AND SUPPLY FAN MAGNETIC STARTERS AS REQUIRED. REFER TO ELECTRICAL REMARKS LEGEND ON KITCHEN DRAWINGS KA-3 FOR ADDITIONAL INFORMATION.
- 2 PROVIDE 28 1/2" x 18 1/2" x 3/4" C FROM EXHAUST HOOD AUTO START CONTROL TO MAGNETIC STARTERS AND EXHAUST AND SUPPLY FANS. PROVIDE TWO WIRES EACH TO THERMOSTATS AND TWO WIRES TO FIRE SUPPRESSION SYSTEM. REFER TO WIRING DIAGRAM ON KITCHEN EQUIPMENT DRAWINGS KA-3.
- 3 2 DEDICATED CIRCUITS FOR CONVENTION OVEN TOP AND BOTTOM. COORDINATE IN FIELD FOR MOUNTING LOCATIONS.
- 4 CIRCUIT FOR COUNTER TOP GRIDDLE. COORDINATE IN FIELD FOR MOUNTING LOCATIONS.
- 5 CIRCUIT FOR BRAISING PAN. COORDINATE IN FIELD FOR MOUNTING LOCATIONS.
- 6 TOGGLE SWITCH FOR HOOD FAN CONTROL AND CONNECTION TO DUCT TEMPERATURE SENSOR WITH 28 1/2" x 18 1/2" - 3/4" TOGGLE SWITCH FURNISHED BY OTHERS. EC TO INSTALL AND WIRE TO HEAT SENSORS. SENSORS FURNISHED AND INSTALLED BY OTHERS. REFER TO KITCHEN EQUIPMENT DRAWING KA SERIES FOR ADDITIONAL INFORMATION.
- 7 CIRCUIT FOR NEW REACH-IN REFRIGERATOR. COORDINATE IN FIELD FOR MOUNTING LOCATIONS.
- 8 PROVIDE 6" STUB-UP FROM FLOOR. INTER WIRE TO CONVENIENCE RECEPTACLE LOCATED BELOW THE TABLE. COORDINATE WITH KITCHEN VENDOR FOR EXACT LOCATION OF STUB UPS. REFER TO KITCHEN DRAWINGS KA-3 FOR ADDITIONAL INFORMATION.
- 9 CIRCUIT FOR POS TERMINAL. PROVIDE FLOOR MOUNTED DOG HOUSE POWER RECEPTACLE AND DATA WITH CAT 6 CABLE TO NEAREST IDF/MDF CLOSET. INSTALLATION SHALL MAINTAIN 5.75" MAX HEIGHT ABOVE SLAB TO ALLOW PROPER CLEARANCE OF UNDERSIDE OF SERVER TABLE. PROVIDE A GFI CIRCUIT BREAKER.
- 10 REFER TO DRAWINGS KA SERIES FOR DAISY CHAIN INTERCONNECTION FOR SERVER TABLES.
- 11 PROVIDE FLOOR MOUNTED DOGHOUSE FOR MAIN POWER FOR SERVER TABLE POWER. HEIGHT OF RECEPTACLE TOP INSTALLATION SHALL MAINTAIN 5.75" MAX HEIGHT ABOVE SLAB TO ALLOW PAPER CLEARANCE OF UNDERSIDE OF SERVER TABLE. PROVIDE A GFI CIRCUIT BREAKER.
- 12 CIRCUIT FOR HOT CABINET. REFER TO DETAILS ON KITCHEN DRAWINGS KA SERIES FOR ADDITIONAL INFORMATION.
- 13 NOT USED
- 14 NOT USED
- 15 PROVIDE THE FOLLOWING BRANCH CIRCUIT FOR WALK-IN COOLER PER FOLLOWING
 - 15A CIRCUIT FOR NEW WALK-IN COOLER. VAPOR TIGHT LIGHT FIXTURE SHALL BE FURNISHED WITH FREEZER AND EC SHALL INSTALL AND WIRE. ACCOMMODATE ALL REQUIREMENTS FOR EXPANDING FOAM SEALANT INSIDE CONDUIT AT PANEL PENETRATIONS TO AVOID CONDENSATE ACCUMULATION INSIDE LIGHT FIXTURES. REFER TO DETAILS ON KITCHEN DRAWINGS KA SERIES FOR ADDITIONAL INFORMATION.
 - 15B CIRCUIT FOR NEW WALK-IN COOLER EVAPORATOR COIL. COORDINATE IN FIELD FOR MOUNTING LOCATION. EC SHALL INSTALL 5 WIRE CONTROL WIRING FROM DEFROST TIME CLOCK TO DEFROST HEATER ON COOLER EVAPORATOR COIL.
 - 15C CIRCUIT FOR NEW CONDENSING UNITS FOR WALK-IN COOLER. PROVIDE NEMA 4X DISCONNECT SWITCH COORDINATE IN FIELD FOR EXACT MOUNTING LOCATION.
 - 15D E/C TO CONNECT ELECTRIC HEAT WRAP TAPE ON FREEZER EVAPORATOR COIL DRAIN LINE FURNISHED BY OTHERS.
- 16 PROVIDE RECESSED JUNCTION BOX FOR THE FIRE SUPPRESSION MANUAL STATION FURNISHED BY OTHER. PROVIDE 1/2" CONDUIT TO JUNCTION REFERENCED IN NOTE 1 FOR FIRE SUPPRESSION ANSUL SYSTEM. REFER TO KA-3 DRAWING FOR ADDITIONAL INFORMATION.
- 17 CIRCUIT FOR THE DISHWASHER. PROVIDE 60AMP-3P NEMA 4X DISCONNECT SWITCH ON THE UNIT. REFER TO PANEL SCHEDULE FOR CIRCUIT BREAKER AND WIRING INFORMATION.
- 18 ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF JUNCTION BOX TO SERVE THE POWER SUPPLY FOR AUTO FAUCET AND AUTOMATIC FLUSH VALVE PRIOR TO THE START OF ANY WORK WITH PLUMBING CONTRACTOR. POWER SUPPLY FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL THE 120V CIRCUIT AND ALL LOW VOLTAGE WIRING ON THE LOAD SIDE OF POWER SUPPLY BY PLUMBING CONTRACTOR.
- 19 CIRCUIT FOR THE DOCK LIFT. EC TO PROVIDE (1) 11°C AND (1) 113°C UNDER SLAB TO PIT LOCATION OF THE DOCK LIFT. REFER TO MANUFACTURER SPECIFICATIONS AND COORDINATE ALL WORK WITH ARCHITECT BEFORE START OF ANY WORK.
- 20 FOR HOOD LIGHTS PROVIDE LIGHT SWITCH AS SHOWN MOUNTED 48" AFF. CONNECT AHEAD OF LOCAL LIGHT SWITCH. INTERCONNECT HOOD LIGHT AND SHALL BE CONTROLLED BY THIS SWITCH. REFER TO KA DRAWINGS FOR ADDITIONAL INFORMATION.
- 21 VFD TO SERVE UNIT EF-5 LOCATED ON ROOF. LOCATION OF VFD IS FOR REFERENCE ONLY. COORDINATE EXACT LOCATION BEFORE THE START OF ANY WORK.
- 22 PROVIDE POWER FOR FIRE SHUTTERS AND INTERCONNECT WITH RAISE AND LOWER SWITCH. FIRE SHUTTER SHALL BE INTERCONNECTED WITH FIRE ALARM VIA INTERFACE MODULE AS SHOWN. COORDINATE FINAL LOCATION WITH VENDOR AND CONSTRUCTION MANAGER.
- 23 PROVIDE EPO SWITCH. CONTRACTOR TO TIE EPO TO ALL EQUIPMENT UNDERNEATH EXHAUST HOOD. VIA SHUT TRIP.



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1	08/31/2020	SCHEMATIC DESIGN
2	12/15/2020	DESIGN DEVELOPMENT
3	07/14/2021	CONSTRUCTION DOCS-NYSED
4	11/01/2021	ISSUED TO BID

KITCHEN POWER PLAN

Job No. 2019-1026 Date 04/30/21
Scale AS NOTED Drawn / Checked BGA/BGA
Sheet Number

E312

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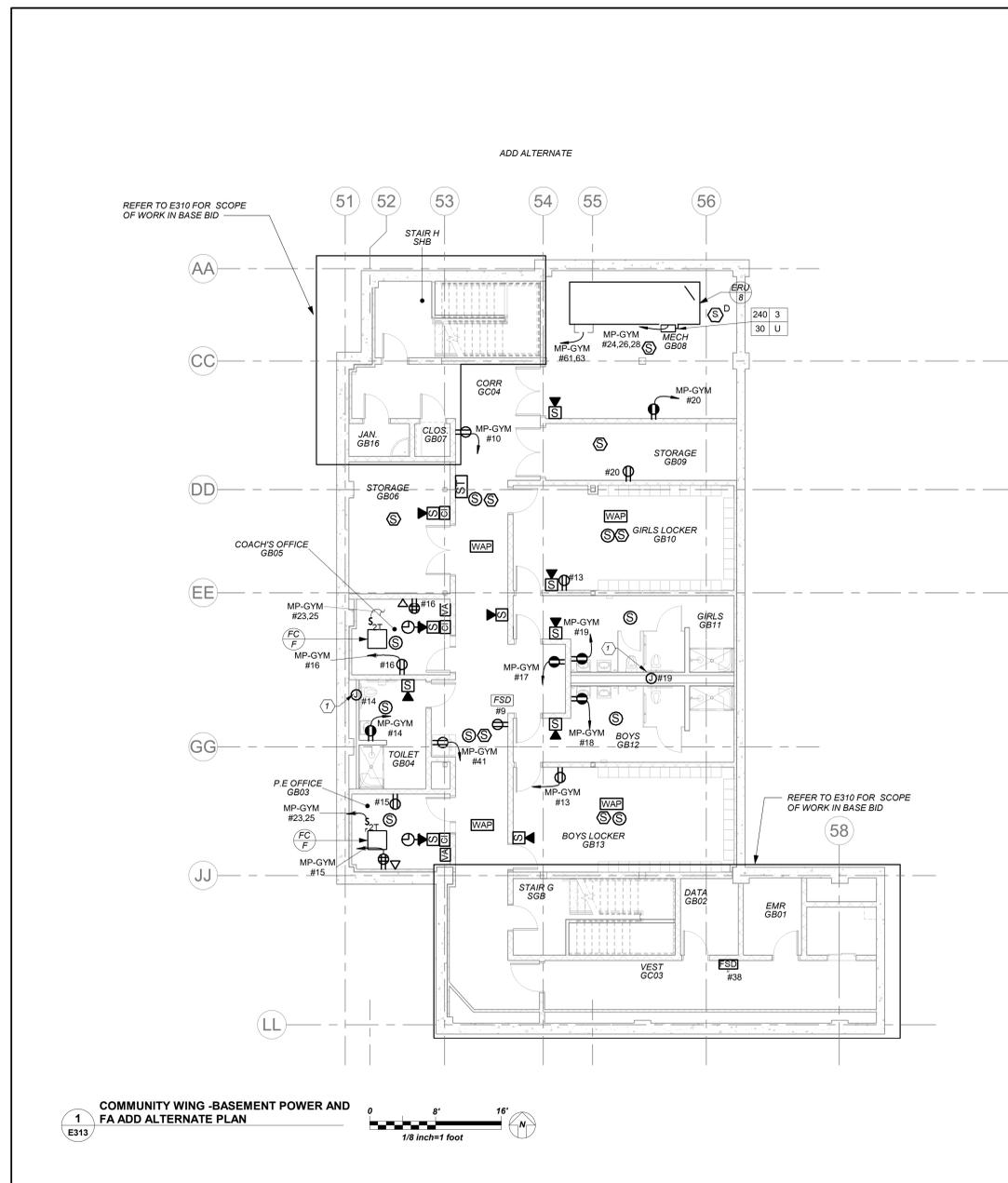
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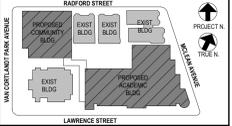


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1
E313
COMMUNITY WING - BASEMENT POWER AND FA ADD ALTERNATE PLAN

- GENERAL NOTES:**
- REFER TO ELECTRICAL ONE LINE DIAGRAMS ON DRAWING E 500 SERIES, FOR SCOPE OF WORK.
 - REFER TO PANELBOARD SCHEDULE ON DRAWING E 600 SERIES FOR BRANCH CIRCUITING INFORMATION.
 - REFER TO DRAWING E 700 SERIES FOR DETAILS.
- WORK NOTES:**
- ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF JUNCTION BOX TO SERVE THE POWER SUPPLY FOR AUTOMATIC FLUSH VALVE PRIOR TO THE START IF ANYWORK WITH PLUMBING CONTRACTOR. POWER SUPPLY FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL THE 120V CIRCUIT AND ALL LOW VOLTAGE WIRING ON THE LOAD SIDE OF POWER SUPPLY BY PLUMBING CONTRACTOR.



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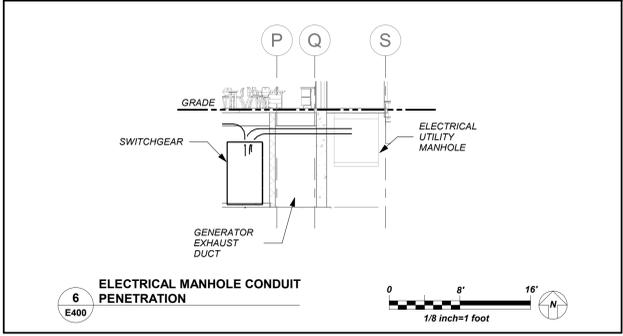
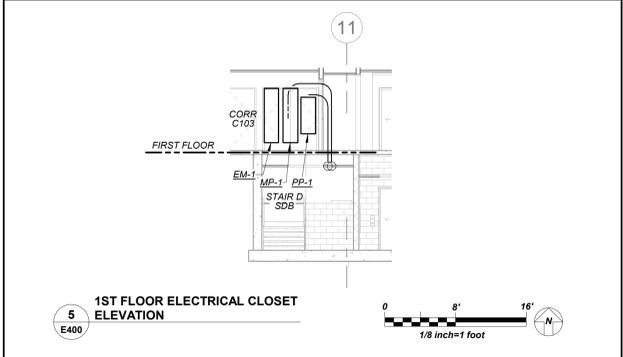
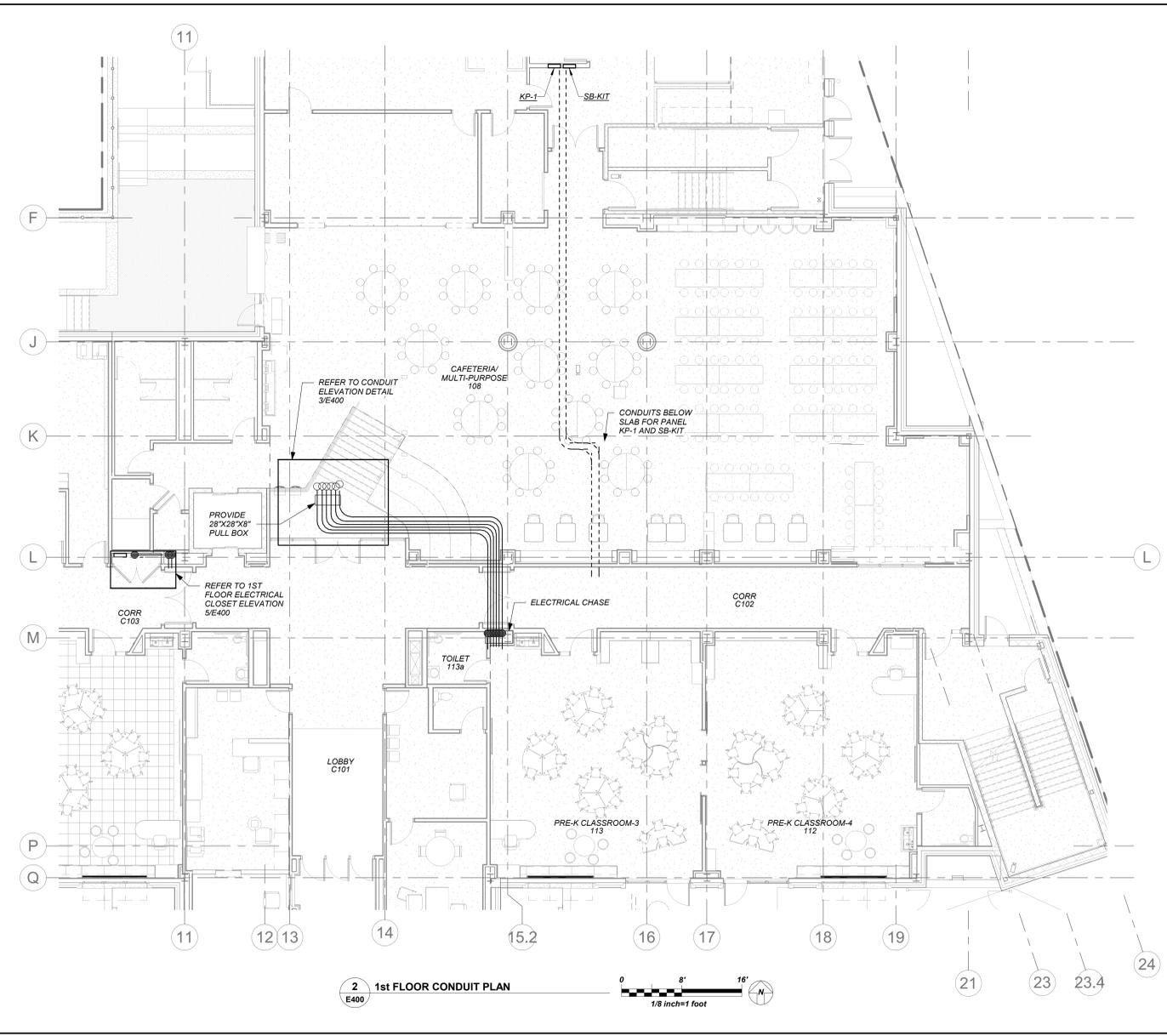
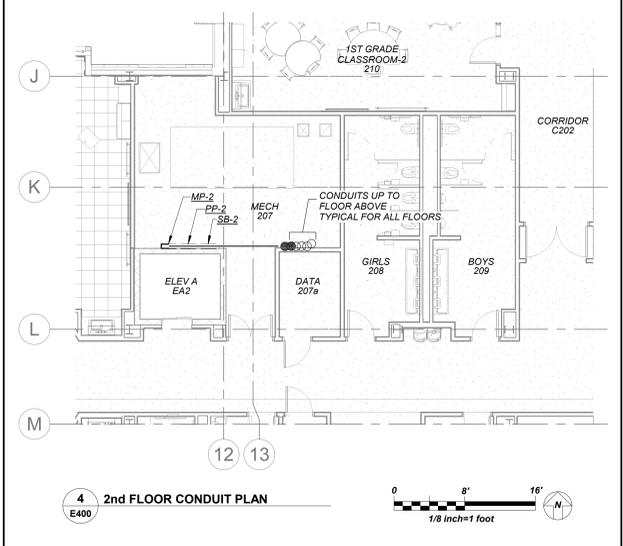
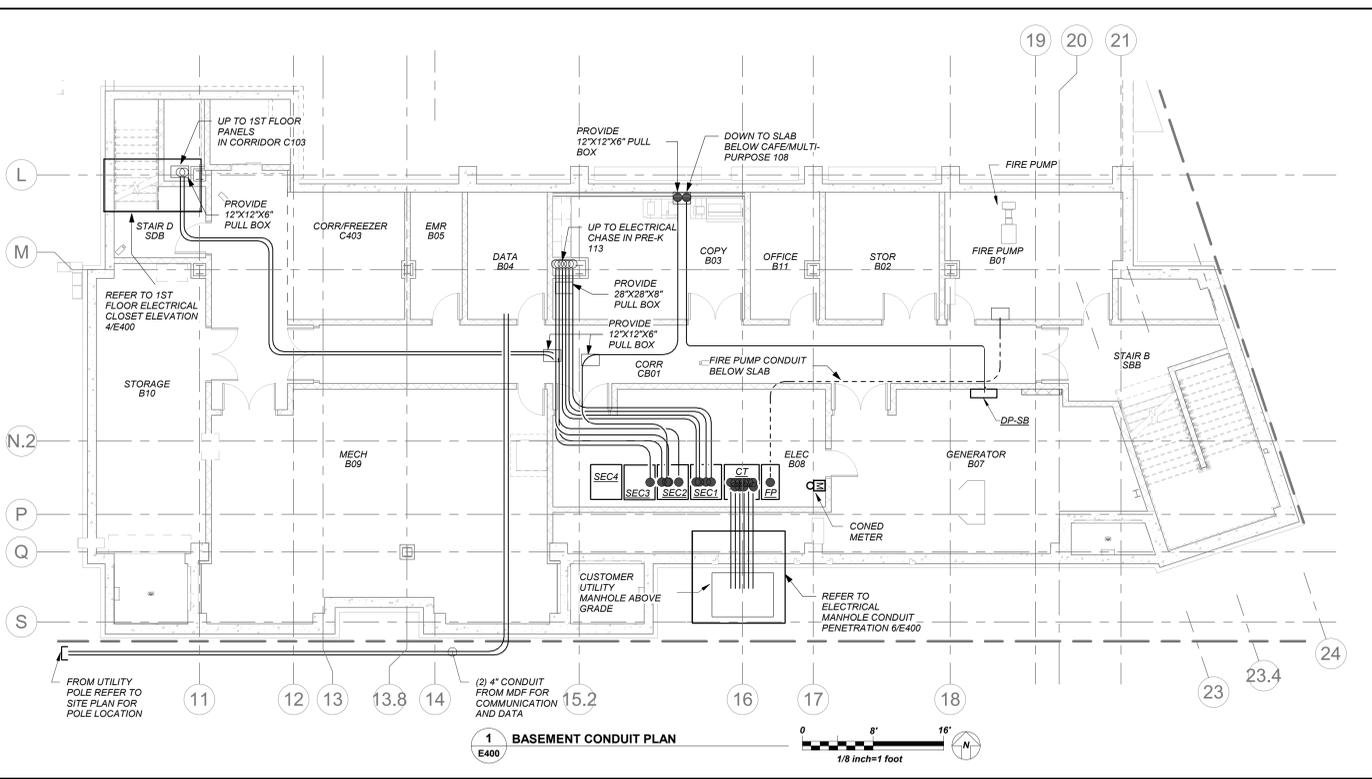
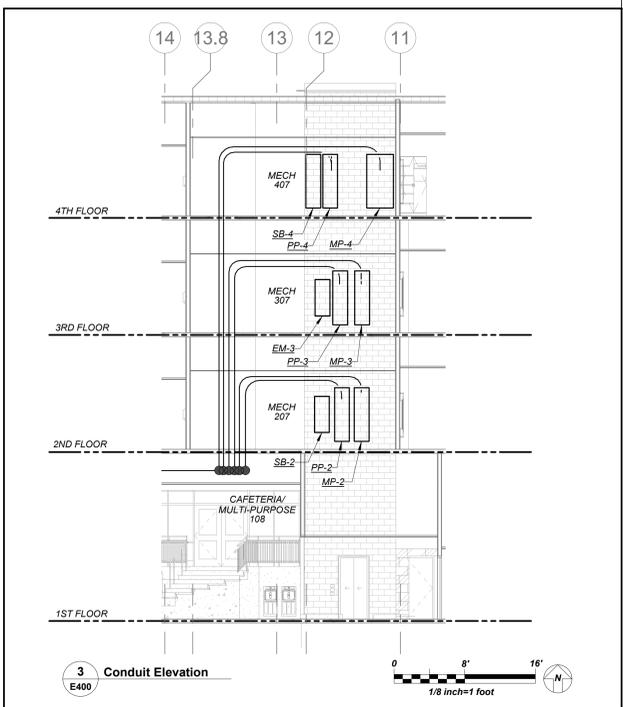
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COMM. WING ADD ALTERNATE POWER AND FA PLAN

Job No.	2019-1026	Date	10/18/21
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Sheet Number
E313

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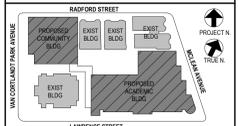
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No.	07/14/2021	CONSTRUCTION DOCS-NYS-ED
Date		Issue
Sheet Title		
ELECTRICAL CONDUIT PLAN		

Job No.	2019-1026	Date	10/12/21
Scale	AS NOTED	Drawn / Checked	Author Checker
Sheet Number			
E400			

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
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NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS

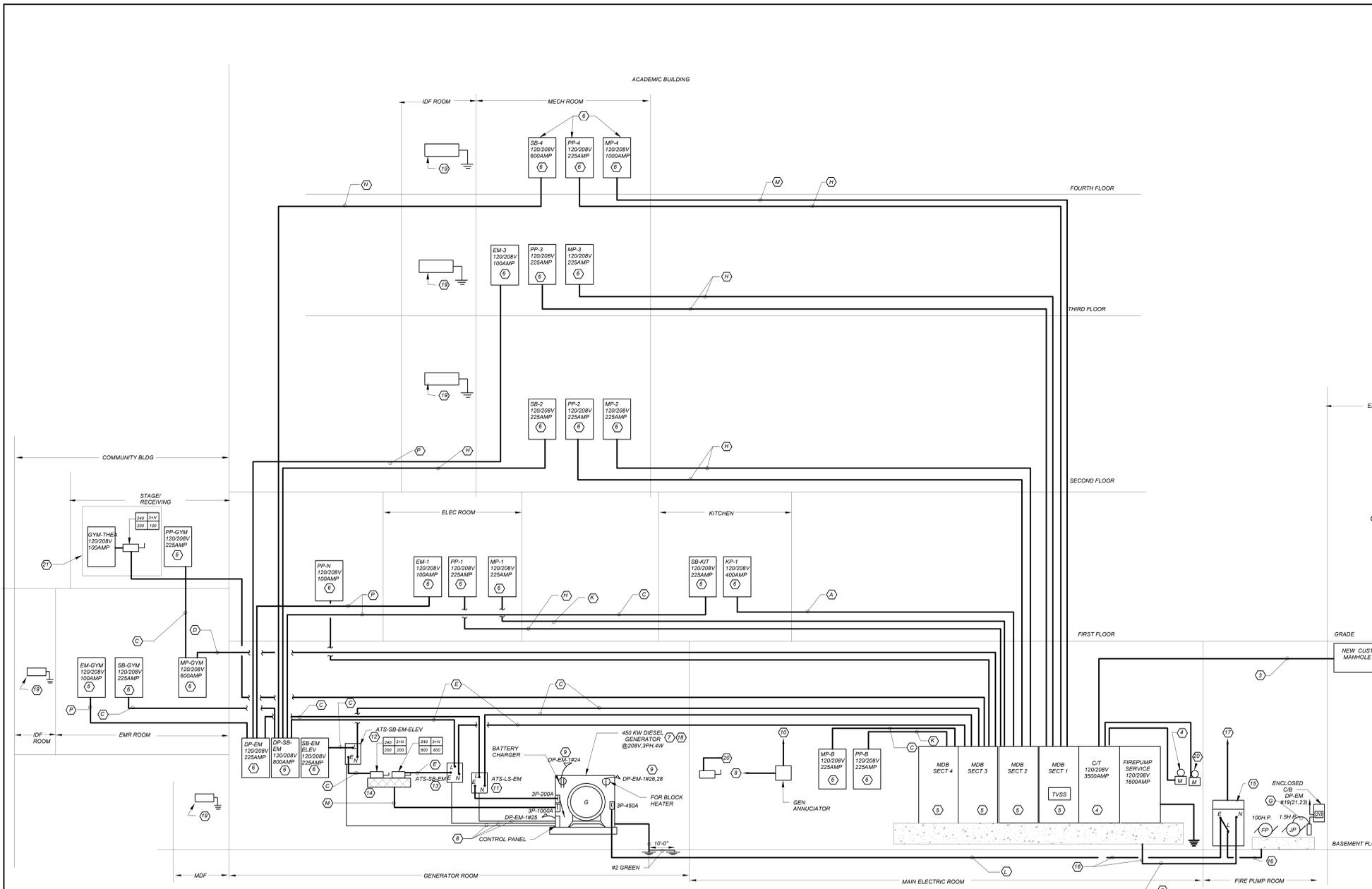


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FEEDER SCHEDULE:

PROVIDE COMPRESSION LUGS FOR ALL ALUMINUM FEEDER

- (A) 2 SETS OF #250 KCMIL + 1#2G IN 2.5" C - UTILIZE XHHW-2 AL FEEDER
- (B) #110 + 1#6G IN 2" C - UTILIZE XHHW-2 AL FEEDER
- (C) #250KCMIL+1#4G IN 2.5" C - UTILIZE XHHW-2 AL FEEDER
- (D) 2 SETS OF #400KCMIL + 1#20G IN 3.5" C - UTILIZE XHHW-2 AL FEEDER
- (E) 3 SETS OF #400KCMIL + 1#10G IN 3" C - UTILIZE XHHW-2 AL FEEDER
- (F) #500 KCMIL+1#3 G RHW IN 4" RGS - UTILIZE CU FEEDER
- (G) 3#10+1#10 IN 3-4" RGS - UTILIZE CU WIRING
- (H) #400KCMIL + 1#4G IN 3" C - UTILIZE XHHW-2 AL FEEDER
- (I) #440 + 1#4G IN 2.5" C - UTILIZE XHHW-2 AL FEEDER
- (J) #430 + 1#6G IN 2" C - UTILIZE XHHW-2 AL FEEDER
- (K) 2 SETS OF #440KCMIL + 1#2G IN 2-1/2" C - UTILIZE CU WIRING
- (L) 4 SETS #250KCMIL+1#4G IN 3" C - UTILIZE XHHW-2 AL FEEDER
- (M) 2 SETS #350KCMIL+1#10G IN 3" C - UTILIZE XHHW-2 AL FEEDER
- (N) #84 + 1#6G IN 1 1/4" C - UTILIZE XHHW-2 AL FEEDER



PANEL DESIGNATION:		MOUNTING:				
MAIN DISTRIBUTION (MDB)		SURFACE				
SUPPLY CHARACTERISTIC:		120/208 VOLTS, 3 PHASE, 4 WIRES				
MAIN BUS RATING:		3500 AMPS NEUTRAL: FULL SIZE SCR 100,000				
USAGE: MAIN SERVICE DISTRIBUTION						
CKT NO.	FUSED SWITCH		EQUIPMENT	WIRE	COND.	LOAD
	FRAME SIZE	POLES "N" NEUT. BAR CONNECTION				
1	225	3+N	150	PP-B	SEE RISER	SEE PNL
2	225	3+N	200	MP-B	SEE RISER	SEE PNL
3	400	3+N	400	KP-1	SEE RISER	SEE PNL
4	225	3+N	150	MP-1	SEE RISER	SEE PNL
5	225	3+N	125	PP-1	SEE RISER	SEE PNL
6	600	3+N	400	MP-GYM	SEE RISER	SEE PNL
7	225	3+N	225	MP-2	SEE RISER	SEE PNL
8	225	3+N	225	PP-2	SEE RISER	SEE PNL
9	225	3+N	225	MP-3	SEE RISER	SEE PNL
10	225	3+N	225	PP-3	SEE RISER	SEE PNL
11	1000	3+N	1000	MP-4	SEE RISER	SEE PNL
12	225	3+N	225	PP-4	SEE RISER	SEE PNL
13	100	3+N	100	PP-N	SEE RISER	SEE PNL
14	225	3+N	200	ATS-SB-EM-ELEV	SEE RISER	SEE PNL
15	800	3+N	800	ATS-SB-EM	SEE RISER	SEE PNL
16	200	3+N	200	ATS-S-EM	SEE RISER	SEE PNL
17	100	3+N	100	GYM THEATRICAL	#300KCMIL AL +1#10 AL	2-1/2" SEE PNL
18	400	3+N	250	PHOTO VOLTAC	SEE RISER	-
19	200	3+N	200	SPACE	-	-
20	200	3+N	200	SPACE	-	-
21	200	3+N	200	SPACE	-	-
22	200	3+N	200	SPACE	-	-
23	400	3+N	200	SPACE	-	-
24	400	3+N	200	SPACE	-	-

WORK NOTES:

- (1) CONED SHALL PROVIDE NEW UTILITY POLE AND RISER FROM POLE TO MANHOLE. EC TO PROVIDE 2 SETS OF 4" RIGID GALVANIZED STEEL RGS CONDUIT FROM 10'0" AFF ON POLE TO 5'-0" AWAY FROM POLE. EC SHALL TRANSITION 4" RGS TO 4" HOPE CONDUIT 5'0" BEFORE ENTERING MANHOLE. EC TO TRANSITION 4" HOPE CONDUIT TO 4" RGS. CONDUIT SHALL BE BURIED A MINIMUM 24" BELOW GRADE. PROVIDE DRAGWIRE IN BOTH CONDUITS. REFER TO SPECIFICATION FOR CONED SERVICE LAYOUT REQUIREMENTS. BEFORE THE START OF ANY WORK THIS CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL EXISTING UTILITIES MARKING PERFORMED IN THE AREA OF ALL WORK BEING PERFORMED BY THIS CONTRACT. THIS INCLUDES AND NOT LIMITED TO ELECTRICAL, WATER, SEWER, STORM, ETC.
- (2) ELECTRICAL CONTRACTOR TO PROVIDE PROPERTY LINE MANHOLE DBR PER CON ED REQUIREMENT. PROVIDE CRABS FOR SECONDARY CONNECTIONS FOR ELEVEN (11) SETS OF #400KCMIL TO CON ED FEEDERS IN MANHOLE. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES.
- (3) PROVIDE TEN (10) SETS OF #400KCMIL IN TYPE XHHW COPPER IN 4" RGS CONDUIT AND ONE (1) SPARE 4" CONDUIT FROM MANHOLE TO THE NEW MAIN DISTRIBUTION BOARD IN THE BUILDING. CONDUIT SHALL BE BURIED 24" BELOW GRADE. PROVIDE LINK SEAL FOR CONDUIT INSTALLATION THROUGH EXTERIOR BUILDING WALL.
- (4) PROVIDE NEW 120/208V, 3500 AMP, 3PHASE, WIRE RATED CT CABINET AND UTILITY METER PER CON ED REQUIREMENT.
- (5) PROVIDE NEW CUSTOM MADE 120/208V, 3500 AMP, 3PHASE, WIRE DISTRIBUTION BOARD FOR 100,000 AIC, WITH TVSS CONTACT ANDREW VROTSOS FROM LAKE SHORE ELECTRIC COOPERATION (avrotsos@lake-shore-electric.com) FOR CUSTOM SWITCHBOARD. PROVIDE 2"X1/4" GROUND COPPER BUS THE FULL LENGTH OF THE TOTAL BOARD SECTIONS. PROVIDE ONE 4-0 GROUND IN 1" CONDUIT TO STREET SIDE OF MAIN COLD WATER VALVE. TO GROUNDING RODS AND BUILDING STEEL. REFER TO SPECIFICATION FOR TVSS REQUIREMENTS.
- (6) PROVIDE NEW 120/208V PANELBOARD. REFER TO PANEL SCHEDULE FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT ON DRAWING E-600.
- (7) PROVIDE NEW 400 KW INTERIOR DIESEL GENERATOR AT 208V, 3 PHASE, 4 WIRE. SIMILAR TO CUMMINS MODEL DFEJ. PROVIDE 6" CONCRETE PAD AS SHOWN. THERE SHALL BE A 3" LIP OF CONCRETE PAD AROUND THE ENTIRE PERIMETER OF THE GENERATOR ENCLOSURE. CONTRACTOR SHALL INSTALL ALL COMPONENTS AND WIRING AS PER MANUFACTURER REQUIREMENTS INCLUDING ALL CONTROLS, WIRING TO AND FROM EACH ATS AND ANNUNCIATORS. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS CONTACT ED CHUNG @719-892-2400
- (8) PROVIDE TWO PAIR OF #12 FOR DC POWER AND TWO PAIRS OF BELDEN 9729 FULLY ISOLATED TWISTED PAIR CABLE WITH SHIELD FOR COMMUNICATION. #812 FROM CONTROL BOARD TO GEN SET STARTS TOP AND #212 WIRE WILL BE SPARE) AND 2 PAIR OF #14WG AND BELDEN 9729 FOR RUN RELAY. INSTALL ALL WIRING IN 1 1/4" RGS CONDUIT FROM GENERATOR TO ALL ATS. FOLLOW MANUFACTURER'S RECOMMENDATION FOR ALL CONTROL WIRING.
- (9) NEW BRANCH CIRCUIT DP-EM #24, #25 AND #26(2) SHALL RUN IN NEW 1" SCHEDULE 40 CONDUIT IN GROUND, THEN TRANSITION TO GALVANIZED STEEL CONDUIT ON INTERIOR FROM GENERATOR TO INDICATED PANELBOARD PROVIDE SEPARATE GROUND AND NEUTRAL FOR 120V CIRCUITS AND SEPARATE GROUND FOR 208V CIRCUIT REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
- (10) PROVIDE NEW GENERATOR REMOTE ANNUNCIATOR AS INDICATED. COORDINATE WITH OWNER FOR THE EXACT MOUNTING LOCATION BEFORE THE START OF ANY WORK. POWER AND BELDEN 9729 IN 3/4" CONDUIT FROM TRANSFER SWITCHES TO NEW ANNUNCIATOR.
- (11) PROVIDE LIFE SAFETY EMERGENCY AUTOMATIC TRANSFER SWITCH (ATS-S-EM) RATED 120/208V, 3-PHASE, 4 WIRE, 60 HZ, SOLID NEUTRAL, 225 AMPS, CUMMINS OTEC SERIES FURNISHED IN NEMA 1 ENCLOSURE MOUNTED ON WALL. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED PROVISIONS AND NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION. PROVIDE LABELING: "ATS-S-EM"
- (12) PROVIDE ELEVATOR AUTOMATIC TRANSFER SWITCH (ATS-SB-EM-ELEV) RATED 120/208V, 3-PHASE, 4 WIRE, 60 HZ, SOLID NEUTRAL, 225 AMPS, CUMMINS OTEC SERIES FURNISHED IN NEMA 1 ENCLOSURE MOUNTED ON WALL. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED PROVISIONS AND NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION. PROVIDE LABELING: "ATS-SB-EM-ELEV"
- (13) PROVIDE STANDBY AUTOMATIC TRANSFER SWITCH (ATS-SB-EM) RATED 120/208V, 3-PHASE, 4 WIRE, 60 HZ, SOLID NEUTRAL, 800 AMPS, CUMMINS OTEC SERIES FURNISHED IN NEMA 1 ENCLOSURE MOUNTED ON WALL. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED PROVISIONS AND NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION. PROVIDE LABELING: "ATS-SB-EM"
- (14) PROVIDE COPPER/ALUMINUM BUS DETAILS FOR CONNECTION FOR ALUMINUM FEEDERS. PROVIDE COMPRESSION LUGS.
- (15) FIRE PUMP ATS CONTROLLER PROVIDED BY PLUMBING CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- (16) ALL FIRE PUMP FEEDERS SHALL BE BURIED IN SLABS, ENCASED IN MINIMUM 2" CONCRETE ENCASEMENT.
- (17) CONTRACTOR TO PROVIDE A SET OF DRY CONTACT AND CONTROL WIRING FROM FIRE PUMP CONTROL PANEL TO SEND OUT SIGNAL TO STANDBY ATS (ATS-SB-EM) UPON PUMP ACTIVATION.
- (18) GENERATOR MANUFACTURER SHALL PROVIDE PROGRAMMING OF ALL AUTOMATIC TRANSFER SWITCHES (ATS), PROGRAM FIRE PUMP (FP) ATS AND STANDBY ATS (ATS-SB-EM) SHALL NEVER BE ON AT THE SAME TIME. IN THE EVENT OF FIRE, FIRE PUMP (FP) ATS, ELEVATOR (SB-EM-ELEV) ATS AND EMERGENCY (ATS-S-EM) ATS SHALL BE ON AND OPERATIONAL PER CODE. IN THE NON-FIRE EVENT, SUCH AS POWER OUTAGE, STANDBY ATS (ATS-SB-EM) SHALL BE ON AND OPERATIONAL WHEN FIRE PUMP (FP) ATS IS NOT ENERGIZED. PROVIDE ALL NECESSARY PROVISIONS AND REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION AND PROGRAMMING. ONCE FIRE PUMP IS RUNNING AND SENDS SIGNAL TO ATS-SB-EM, STANDBY ATS WILL RECEIVE SIGNAL TO LOAD SHED RELAY AND DROP.
- (19) REFER TO GROUNDING DETAIL SHOWN ON DRAWING E702 (DETAIL 1)

ADD ALTERNATES:
(20) SOLAR ADD ALTERNATE: PROVIDE NEW DISCONNECT SWITCH & PHOTOVOLTAIC METER. REFER TO PV SERIES DRAWINGS FOR ADDITIONAL INFORMATION. CONNECTION TO ALL SOLAR PV CT/RELAY AT MDB SHALL BE IN COMPLIANCE WITH CONED REQUIREMENTS. THIS CONTRACTOR IS RESPONSIBLE FOR FILING WITH UTILITY COMPANY AND LOCAL AUTHORITY TO OBTAIN ALL APPROVALS AND PERMITS.

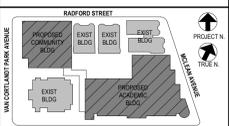
THEATRICAL ADD ALTERNATE: PROVIDE DISCONNECT SWITCH AND GYM-THEA PANELBOARD AND ALL ASSOCIATED WIRING. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION. CONDUIT FOR THE PANELBOARD TO BE PART OF BASE BID.

SPECIAL NOTE: ALL PANELBOARDS, DISTRIBUTION PANEL AND BOARD INCLUDING AT'SS AND GENERATOR CONNECTIONS FOR ALL FEEDERS SHALL UTILIZE COPPER/ALUMINUM RATED LUGS AND BREAKERS. UTILIZE COMPRESSION TYPE LUGS FOR ALL ALUMINUM FEEDERS.

POWER RISER DIAGRAM 1 E502

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

PROVIDE FRAME AND TERMINAL SIZE THAT CAN SUPPORT OVERSIZED FEEDERS AS INDICATED ON RISER DIAGRAM DUE TO VOLTAGE DROP.
*REFER TO PHOTOVOLTAIC DRAWING FOR ADDITIONAL INFORMATION



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No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

ELECTRICAL RISERS

Job No. 2019-1026 Date 8/31/20
Scale AS NOTED Drawn / Checked BGA/ BGA

Sheet Number **E501**

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

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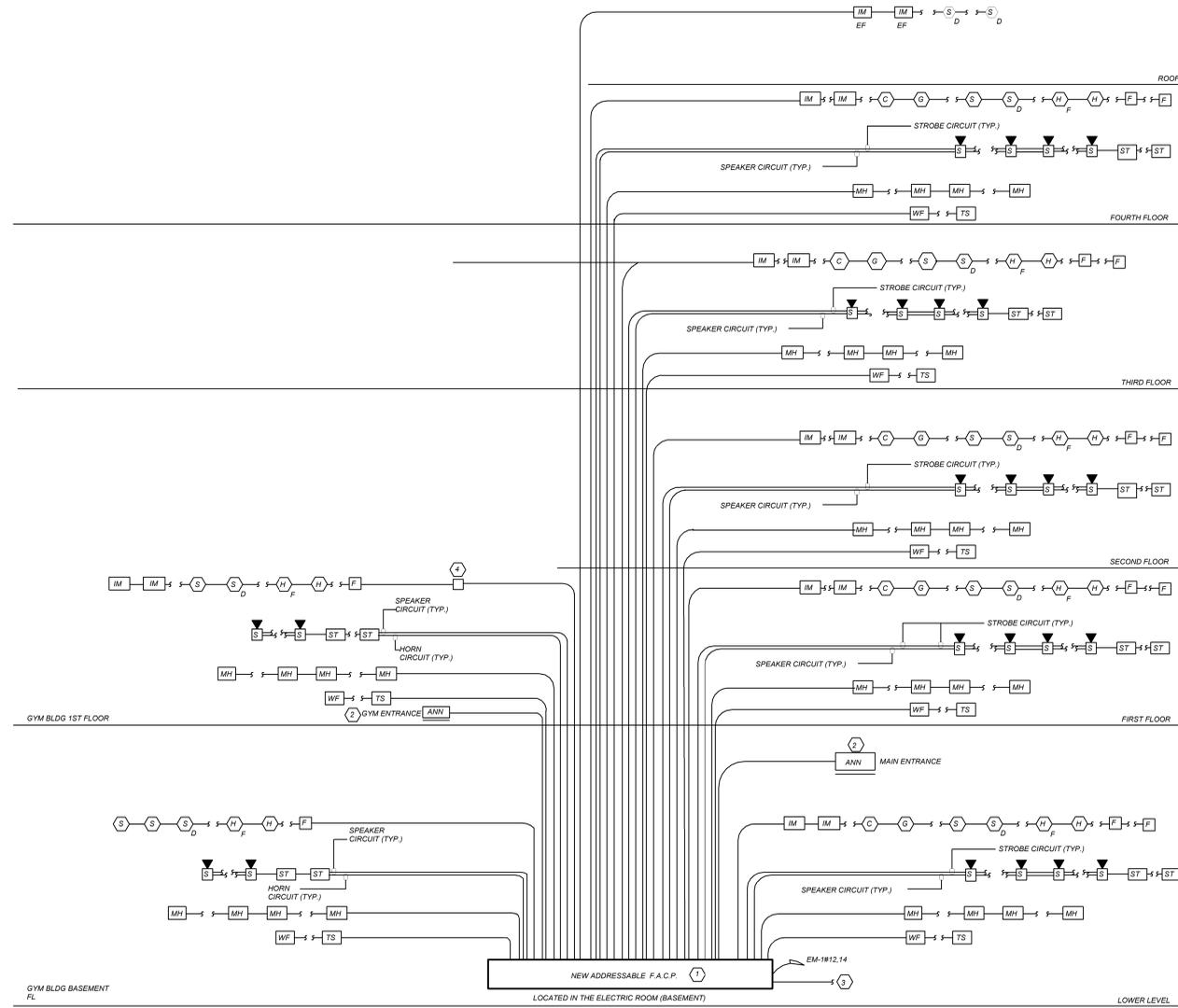
BARILE GALLAGHER & ASSOCIATES
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FIRE ALARM RISER GENERAL NOTES:

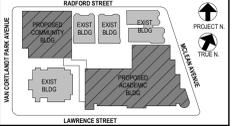
- FIRE ALARM WIRING DIAGRAMS SHOWN ARE FOR GENERAL ARRANGEMENT ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY AND OBTAIN POINT TO POINT WIRING DIAGRAM PRIOR TO INSTALLATION FROM MANUFACTURER.
- PERMITS AND APPROVALS NECESSARY FOR INSTALLATION OF THE WORK SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THIS CONTRACT.
- UNLESS DIRECTED OTHERWISE BY FIRE ALARM SYSTEM MANUFACTURER FIRE ALARM DEVICE WIRING SHALL BE AS FOLLOWS (FOR BIDDING PURPOSES ONLY):
 - SPEAKER WIRING - #16 AWG TWISTED
 - STROBE WIRING - #14 AWG TWISTED
 - SIGNAL WIRING - #14 AWG TWISTED/SHIELDED
- THE WIRING SHALL HAVE THE FOLLOWING CHARACTERISTICS:
 - A. A MINIMUM TEMPERATURE RATING OF 150 C.
 - B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS.
 - C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS.
 - D. THE COLOR OF THE CABLE SHALL BE RED.
 - E. THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE) WHEN CONDUIT IS USED. SEE NOTE 5 FOR ADDITIONAL CLARIFICATION.
 - F. THE CABLE SHALL BE VISIBLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS AND IS LISTED BY UL.
- PROVIDE MC FIRE ALARM CABLE WITH RED STRIPE AS MANUFACTURED BY AFC SERIES 1800 WHEN CABLE IS CONCEALED OR ABOVE HUNG CEILING. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN FINISHED AREAS, CABLE SHALL RUN IN WIREMOLD V-700. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN UNFINISHED AREAS, PROVIDE PLENUM RATED CABLE IN MIN. 3/4" CONDUIT.
- STROBES SHALL HAVE A MINIMUM LIGHT OUTPUT OF 75 CANDELA AND A FLASH RATE OF 1-3 HZ.
- PER NFPA72-18.4.3.1 TO MEET PUBLIC MODE AUDIBLE REQUIREMENTS, ALL SPEAKERS SHALL HAVE A SOUND LEVEL AT LEAST 15 dB ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
- PER NFPA72-18.4.3.1 TO MEET PUBLIC MODE AUDIBLE REQUIREMENTS, ALL SPEAKERS SHALL HAVE A SOUND LEVEL AT LEAST 15 dB ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
- WALL MOUNTED SPEAKER STROBE UNITS SHALL NOT HAVE ANY OTHER DEVICES OR APPURTENANCES WITHIN 5 FEET OF THE DEVICE. THE ENTIRE LENS OF THE UNIT SHALL NOT BE LESS THAN 80", AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR, WHILE MAINTAINING 6" BELOW THE CEILING. DEVICES SHALL BE FLUSH MOUNTED IN ALL FINISHED AREAS. PROVIDE DOUBLE DEEP DEVICE BOX IN WALL.
- SHUTDOWN OF HVAC SYSTEM EQUIPMENT (NOT LIMITED TO, ROOF TOP, EXHAUST FANS, ETC.) OF 1000 CFM OR GREATER SHALL BE PERFORMED VIA A RELAY INTERFACE SYSTEM. SEND SIGNAL TO BUILDING AUTOMATED TEMPERATURE CONTROL (ATC) SYSTEM INDICATING SHUTDOWN HAS OCCURRED. EQUIPMENT RESTART SHALL BE BY BUILDING ATC SYSTEM UPON FIRE ALARM RESET TO NORMAL MODE. RESTART OF EQUIPMENT SHALL BE SEQUENTIAL.
- AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
- AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
- ALL PULL STATIONS SHALL BE PROVIDED WITH CLEAR PROTECTIVE LEXAN COVER. COVER SHALL BE AS MANUFACTURED BY SAFETY TECHNOLOGY INTERNATIONAL INC. CAT. #STI 1100 STOPPER II.
- COORDINATE F.A WORK WITH F.A VENDOR.
- VERIFY EXACT QUANTITIES OF FIRE ALARM DEVICES WITH PLANS.
- ALL DEVICES SHALL BE SUPERVISED AS PER N.F.P.A. 72. PROVIDE END OF LINE RESISTORS AS REQUIRED PER INDIVIDUAL MANUFACTURER. PROVIDE LOAD RELAYS AS REQUIRED FOR PROPER OPERATION OF EQUIPMENT.
- FIRE SMOKE DAMPERS SHALL BE TIED INTO FIRE ALARM SYSTEM TO SHUT DOWN UPON SMOKE DETECTION ACTIVATION. PROVIDE ALL WIRING, RELAYS, ETC. AS REQUIRED FOR COMPLETE INSTALLATION.
- PROVIDE WIRE GUARDS FOR ALL FIRE ALARM DEVICES LOCATED IN GYM'S, BOILER ROOMS, LOCKER ROOMS AND MECHANICAL EQUIPMENT ROOMS.
- CARBON MONOXIDE AND GAS LEAK DETECTOR SHALL RING LOCAL TROUBLE BELL AT FIRE ALARM CONTROL PANEL FOR SUPERVISORY CONDITION ONLY.
- THE CARBON MONOXIDE DETECTOR SHALL HAVE AN SOUNDER BASE AND INITIATE A SUPERVISORY SIGNAL WHEN 70 PARTS PER MILLION (ppm) ARE REACHED WITHIN 60 TO 240 MINUTES OR 150ppm ARE REACHED WITHIN 10 TO 50 MINUTES, OR 400ppm ARE REACHED WITHIN 4 TO 15 MINUTES AS REQUIRED BY UL 2034.
- THE GAS DETECTOR SHALL MONITOR PROPANE (LP), AND NATURAL (METHANE) TYPE HEATING GASES. THE GAS DETECTOR SHALL INITIATE A SUPERVISORY SIGNAL WHEN 25% LOWER EXPLOSIVE LIMIT (LEL) IS REACHED AS REQUIRED BY UL 1484.
- THIS CONTRACTOR IS RESPONSIBLE FOR ALL PROGRAMMING AND MAPPING OF EACH DEVICE AS REQUIRED.

FIRE ALARM RISER WORK NOTES:

- NEW FIRE ALARM CONTROL PANEL (F.A.C.P.) SHALL BE LOCATED IN THE MAIN ELECTRICAL ROOM AND AT GYM ENTRANCE.
- PROVIDE NEW BUILDING LAYOUT WALL PLAQUE INDICATING ALL THE FIRE ALARM DEVICE LOCATIONS WITH DEVICE ADDRESSES. WALL PLAQUE SHALL BE INSTALLED ABOVE ANNUNCIATOR AT MAIN ENTRANCE COORDINATE WITH BUILDING OWNER AND ARCHITECT FOR ALL ROOM NAMES AND ROOM NUMBERS BEFORE PROGRAMMING FIRE ALARM CONTROL PANEL.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL (2) DEDICATED TELEPHONE LINES TO FIRE ALARM CONTROL PANEL FROM MAIN TELEPHONE CLOSET AS REQUIRED.
- PROVIDE AND WIRE SIGA-CR RELAY TO SHUTDOWN STAND ALONE SOUND SYSTEM AMPLIFIER IN THE INDICATED ROOMS WHEN FIRE ALARM IS INITIATED.



FIRE ALARM RISER DIAGRAM 1 N.T.S.
E-502



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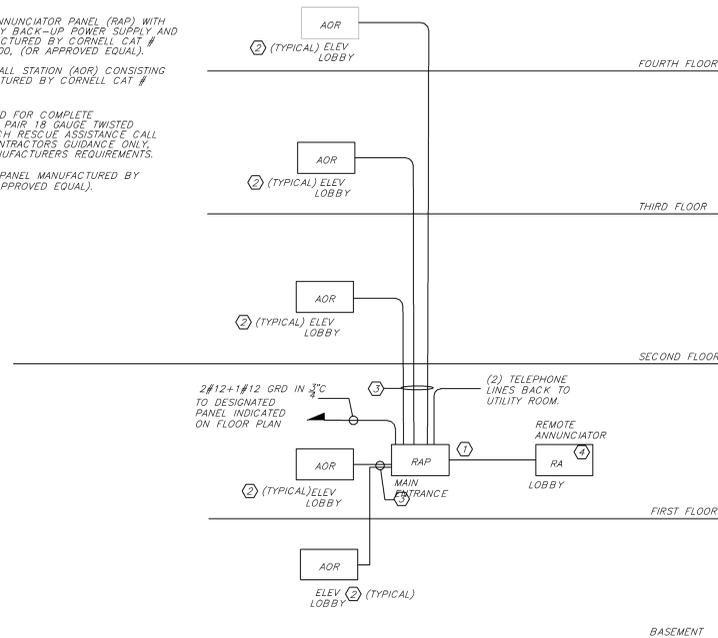
No.	Date	Issue
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3	07/14/2021	CONSTRUCTION DOCS-NYS&D
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title	
FIRE ALARM RISER	
Job No.	Date
2019-1026	8/31/20
Scale	Drawn / Checked
AS NOTED	BGA/ BGA
Sheet Number	
E502	

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

RESCUE ASSISTANCE SYSTEM RISER NOTES:

1. PROVIDE RESCUE ASSISTANCE ANNUNCIATOR PANEL (RAP) WITH ASSOCIATED EMERGENCY BATTERY BACK-UP POWER SUPPLY AND TELEPHONE ACCESS KIT MANUFACTURED BY CORNELL CAT # A-4204 & B-5243A & TAK-4200, (OR APPROVED EQUAL).
2. PROVIDE RESCUE ASSISTANCE CALL STATION (AOR) CONSISTING OF DOUBLE GANGBOX, MANUFACTURED BY CORNELL CAT # 4201B (OR APPROVED EQUAL).
3. PROVIDE ALL WIRING AS REQUIRED FOR COMPLETE INSTALLATION. PROVIDE 12+1 PAIR 18 GAUGE TWISTED SHIELDED PAIR TO CONNECT EACH RESCUE ASSISTANCE CALL STATION. WIRE SIZE IS FOR CONTRACTORS GUIDANCE ONLY. EXACT WIRE SIZE TO BE AS MANUFACTURERS REQUIREMENTS.
4. PROVIDE REMOTE ANNUNCIATOR PANEL MANUFACTURED BY CORNELL CAT # A4010TG (OR APPROVED EQUAL).



RESCUE ASSISTANCE SYSTEM RISER DIAGRAM 2 N.T.S. E503

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

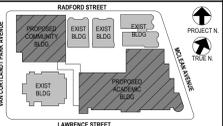
YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705

KG+D listen imagine build
KG+D . ARCHITECTS PC
285 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P-914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS

bgga
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CONSULTING ENGINEERS
99 MARBLE AVE. PLEASANTVILLE, NY 10570
914.326.0099 GENERAL@BGGA-ENG.COM WWW.BGGA-ENG.COM



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Professional Seal

No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS&D
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

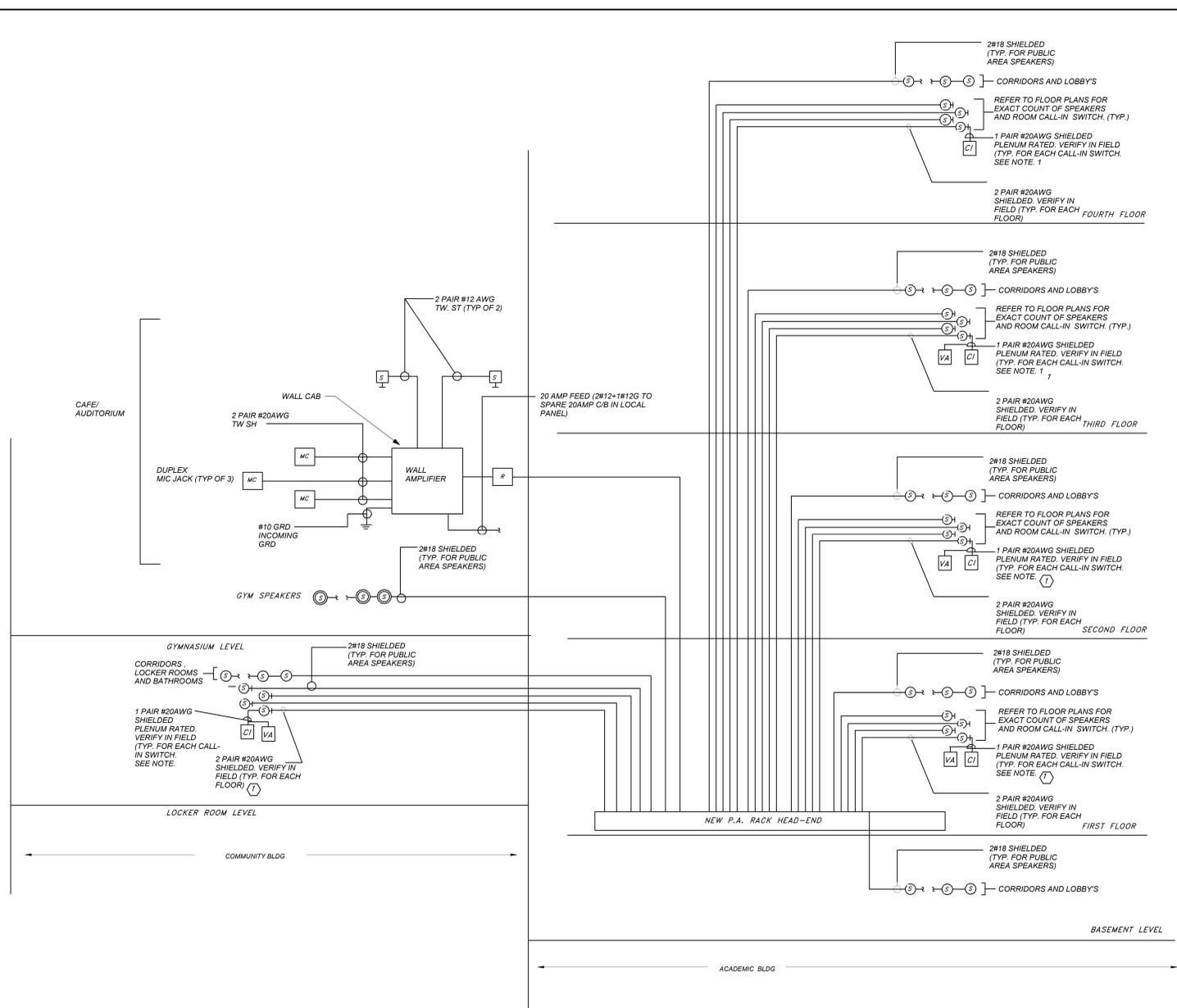
PUBLIC ADDRESS & RESCUE ASSISTANCE RISER

Job No. 2019-1026 Date 07/12/21

Scale AS NOTED Drawn / Checked Author Checker

Sheet Number

E503



NOTES:

1. VERIFY EXACT QUANTITY AND LOCATION OF DEVICES ON PLAN DRAWINGS.
2. WIRING TYPES ARE SHOWN FOR REFERENCE ONLY. VERIFY EXACT WIRING REQUIREMENTS WITH MANUFACTURER.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE PLENUM RATED WIRING AND RUN EXPOSED ABOVE ACCESSIBLE CEILING. IT SHALL BE RUN IN EMT CONDUIT WHERE EXPOSED. EXCEPT IN CORRIDORS, CLASSROOMS AND OFFICES WIRING SHALL BE RUN IN STEEL SURFACE RACEWAY (SIMILAR TO WIREMOLD V-500 AND/OR V-700). WIRING SHALL ALSO BE RUN IN EMT FOR STUB-UPS IN CONCEALED WALLS.
4. ALL PROGRAMMING AND FINAL CONNECTIONS TO P.A. SYSTEM RACK SHALL BE BY SYSTEM MAINTENANCE CONTRACTOR. ALL COSTS ASSOCIATED WITH THIS SHALL BE BY ELECTRICAL CONTRACTOR.

WORK NOTES:

1. ALL SPEAKERS IN CLASSROOMS, WHERE INDICATED ON FLOOR PLAN SHALL BE PROVIDED WITH CALL-IN SWITCH AND WIRED AS INDICATED. ALL OFFICES SHALL BE PROVIDED WITH VOLUME ATTENUATORS (VA).
2. GYM/AUDITORIUM SOUND SYSTEM SHALL BE CAPABLE OF INTERFACING WITH SCHOOL PUBLIC ADDRESS SYSTEM AND CAPABLE OF ANNOUNCING CALLS FROM P.A. SYSTEM. PROVIDE A SIGNAL INTERFACE FROM MAIN PA RACK AS WELL TO OVERRIDE THE LOCAL SOUND SYSTEM.

PUBLIC ADDRESS SYSTEM RISER DIAGRAM 1 N.T.S. E503

LIGHTING FIXTURE SCHEDULE CONT.				
TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
M	PENDENT MOUNTED	132W LED UNV	INDUSTRIAL HIGH BAY, PENDENT MOUNTED LED TYPE FIXTURE 1500 LUMENS, 3000K COLOR TEMPERATURE, 80 CRI, MATTE WHITE FINISH WITH WIREGUARDS, CLEAR ACRYLIC REFLECTOR, 6" AIRCRAFT CABLE WITH STRAIGHT CORD WITH WIRE GUARD	MANUFACTURER: DAYBRITE CFI MODEL# RBX-15L-830-UNV-WT-ARR225-HCH6-3/4-SC-WGA-22
M	EM	132W LED UNV	SAME AS FIXTURE "M" BUT WIRED TO GENERATOR	MANUFACTURER: DAYBRITE CFI MODEL# RBX-15L-830-UNV-WT-ARR225-HCH6-3/4-SC-WGA-22
N	PENDENT MOUNTED	32W LED UNV	4' LINEAR DECORATIVE LED TYPE FIXTURE, SYMMETRIC DISTRIBUTION, 80 CRI, 3000K COLOR TEMPERATURE, 3600 LUMENS, UNIVERSAL VOLTAGE, 0-10V DIMMING	MANUFACTURER: LEDALITE BY SIGNIFY MODEL# 12-O-1-L-C-E-Q-S-04-7-D-E-T-A2-24
N	EM	32W LED UNV	SAME AS FIXTURE "N" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE BY SIGNIFY MODEL# 12-O-1-L-C-E-Q-S-04-7-D-E-T-A2-24
P	SURFACE WALL MOUNTED	30 W LED UNV	24" LONG LED FIXTURE, MATTE WHITE ACRYLIC DIFFUSER MATTE, SILVER METALIC FINISH, 3000K COLOR TEMPERATURE, 2050 LUMENS, 80 CRI, 0-10V DIMMING	MANUFACTURER: OCL MODEL #HO1-S1SA-24-MW-SMP-LED1/30K-UNV-DM1
P	EM	30 W LED UNV	SAME AS FIXTURE "P" BUT WIRED TO GENERATOR	MANUFACTURER: OCL MODEL #HO1-S1SA-24-MW-SMP-LED1/30K-UNV-DM1
P-2	SURFACE WALL MOUNTED	28 W LED UNV	1'x4' LED TYPE UTILITY FIXTURE, WITH LINEAR PRISMATIC ACRYLIC LENS.	MANUFACTURER: DAYBRITE MODEL #LS-2-R-2-28-UNV
P-2	EM	28 W LED UNV	SAME AS FIXTURE "P2" BUT WIRED TO GENERATOR	MANUFACTURER: DAYBRITE MODEL #LS-2-R-2-28-UNV
R	PENDENT MOUNTED	20W LED 120	PENDENT MOUNTED LED TYPE LIGHT, 12" x 12" DIAMETER, 3000K COLOR TEMPERATURE, 2300 LUMENS, 80 CRI, 0-10V DIMMING, OPAL WHITE GLASS DIFFUSER LENS, STANDARD PAINTED FINISH.	MANUFACTURER: MANNING LIGHTING MODEL #DP-46-12/PT/DP-46-12/30-D0-120-WHG
R	EM	20W LED 120	SAME AS FIXTURE "R" BUT WIRED TO GENERATOR	MANUFACTURER: MANNING LIGHTING MODEL #DP-46-12/PT/DP-46-12/30-D0-120-WHG
AA2	RECESSED MOUNTED	40W LED UNV	2' WIDE LED TYPE RECESSED FIXTURE, 4800 LUMENS, 3000K COLOR TEMPERATURE, 80 CRI, DIFFUSED SMOOTH LENS, 0-10V DIMMING, SUITABLE FOR GRID CEILING.	MANUFACTURER: DAYBRITE BY SIGNIFY MODEL# 2-FFX-G-48L-830-4-DS-UNV-DIM
AA2	EM	40W LED UNV	SAME AS FIXTURE "AA" BUT WIRED TO GENERATOR	MANUFACTURER: DAYBRITE BY SIGNIFY MODEL# 2-FFX-G-48L-830-4-DS-UNV-DIM
S	SURFACE WALL MOUNTED	37W LED UNV	LED TYPE EXTERIOR WALL SCENCE, NEUTRAL WHITE LED COLOR, 700mA DRIVE CURRENT, 4000K COLOR TEMPERATURE, 70 CRI, 0-10V DIMMING, DARK GRAY FINISH, WITH INTEGRAL PHOTOCELLS	MANUFACTURER: GARDCO BY SIGNIFY MODEL # 101L-16L-700-NW-G-2-UNV-DD-PCB-F1-DGY
S	EM	37W LED UNV	SAME AS FIXTURE "S" BUT WIRED TO GENERATOR	MANUFACTURER: GARDCO BY SIGNIFY MODEL # 101L-16L-700-NW-G-2-UNV-DD-PCB-F1-DGY
SS1	SURFACE WALL MOUNTED	45W LED UNV	4 FT STRIP LED STRIP LIGHTING, SURFACE MOUNTED, 5400 HIGH LUMEN OUTPUT, 3500K COLOR TEMPERATURE, LIGHT FIXTURE SHALL BE WIRED TO GENERATOR.	MANUFACTURER: COLUMBIA LIGHTING MODEL # CSL4-LSCS
W-1	SURFACE WALL MOUNTED	24W LED UNV	LED TYPE EXTERIOR WALL SCENCE, INTEGRATED DRIVER, DOWN DIRECTION LIGHTING, 1300 LUMENS, 98 CRI, 3000K COLOR TEMPERATURE, 20 DEGREE REFLECTOR, WALL WASH, CHARCOAL GRAY SHELL COLOR, 0-10V DIMMING	MANUFACTURER: ALW MODEL # K4RL-N-V-D-13-98-30-20-WW-CG
W-1	EM	24W LED UNV	SAME AS FIXTURE "W1" BUT WIRED TO GENERATOR	MANUFACTURER: ALW MODEL # K4RL-N-V-D-13-98-30-20-WW-CG
W-2	SURFACE WALL MOUNTED	24W LED UNV	LED TYPE EXTERIOR WALL SCENCE, INTEGRATED DRIVER, DOWN DIRECTION LIGHTING, 1300 LUMENS, 98 CRI, 3000K COLOR TEMPERATURE, 20 DEGREE REFLECTOR, WALL WASH, CHARCOAL GRAY SHELL COLOR.	MANUFACTURER: ALW MODEL # K3RS-N-V-D-13-98-30-20-WW-CG
W-2	EM	24W LED UNV	SAME AS FIXTURE "W2" BUT WIRED TO GENERATOR	MANUFACTURER: ALW MODEL # K3RS-N-V-D-13-98-30-20-WW-CG
Z	RECESSED FLOOR MOUNTED	36W LED 120V	EXTERIOR STEP LED TYPE LIGHT, 3-1/2" x 9" ALUMINUM HOUSING ZINC FINISH	MANUFACTURER: DIODE LED MODEL #CB100-A-K5812
ZZ	EXTERIOR POLE MOUNTED	38W LED UNV	EXTERIOR POLE MOUNTED LED TYPE FIXTURE, FORWARD OPTICS, 3000K COLOR TEMPERATURE, TYPE 3 MEDIUM DISTRIBUTION, UNIVERSAL VOLTAGE, SQUARE POLE MOUNTING, 0-10V DIMMING, HOUSE SIZED SHIELD, BLACK FINISH, INTEGRAL PHOTOCELL.	MANUFACTURER: LITHONIA MODEL # DSXO LED-PPL-30K-T3M-MVOLT-SPA-DMG-HS-DBLX-DLL127F1.5U
ZZ-1	EXTERIOR POLE MOUNTED	38W LED UNV	EXTERIOR POLE MOUNTED LED TYPE FIXTURE, FORWARD OPTICS, 3000K COLOR TEMPERATURE, TYPE 4 MEDIUM DISTRIBUTION, UNIVERSAL VOLTAGE, SQUARE POLE MOUNTING, 0-10V DIMMING, HOUSE SIZED SHIELD, BLACK FINISH, INTEGRAL PHOTOCELL.	MANUFACTURER: LITHONIA MODEL # DSXO LED-PPL-30K-T4M-MVOLT-SPA-DMG-HS-DBLX-DLL127F1.5U
EXIT LIGHT	SURFACE WALL MOUNTED	5W LED 120V	LED TYPE EXIT LIGHT, STEEL HOUSING, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS, SELF POWERED MODEL WITH 90 MINUTE EMERGENCY BATTERY PACK.	MANUFACTURER: COOPER LIGHTING ATLITE MODEL # XLN1-6-S-R-12U

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

LIGHTING FIXTURE SCHEDULE CONT.				
TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
C-1	PENDENT MOUNTED	164 W LED UNV	DECORATIVE LED TYPE PENDENT FIXTURE, 30" RADIUS, DIRECT LIGHTING, LOW OUTPUT, 3000K COLOR TEMPERATURE, 80 CRI, INDIRECT LIGHTING, LOW OUTPUT, 3000K COLOR TEMPERATURE, 80 CRI, 0-10V DIMMING, EXTRA DIFFUSED LENS FOR BOTH DIRECT/INDIRECT LIGHTING, BLUE FINISH.	MANUFACTURER: ALW CRESCENT MOONRING MODEL#MR1.5-CQ304-SS-L-OW-80-3000K-0/10V/S-LENS-N-LOW-80-3000K-0/10V/S-LENS-GB-UNV
C-1	EM	164 W LED UNV	SAME AS FIXTURE "C-1" BUT WIRED TO GENERATOR	MANUFACTURER: ALW CRESCENT MOONRING MODEL#MR1.5-CQ304-SS-L-OW-80-3000K-0/10V/S-LENS-N-LOW-80-3000K-0/10V/S-LENS-GB-UNV
D	PENDENT MOUNTED	42 W LED UNV	LINEAR LED TYPE FIXTURE, 4' LONG, 5500 LUMENS, 3000K COLOR TEMPERATURE, 80 CRI, FLAT DIFFUSED LENS WITH 5" CHAINS AND "Y" HOOKS.	MANUFACTURER: DAY BRITE CFI MODEL#BLK-55L-630-UNV-FD-FKR-126
D	EM	42 W LED UNV	SAME AS FIXTURE "D" BUT WIRED TO GENERATOR	MANUFACTURER: DAY BRITE CFI MODEL#BLK-55L-630-UNV-FD-FKR-126
F	PENDENT MOUNTED	60 W LED UNV	PENDENT MOUNTED 6" LED TYPE FIXTURE, 80 CRI, 3500K, 4500 LUMENS, 75% DOWN LIGHTING, SINGLE CIRCUIT, STANDARD WHITE COVER WITH DUST COVER, T-GRID ON GRID MOUNT.	MANUFACTURER: LEDALITE MODEL#R24-R5-L-B-C-A-G-06-7-D-E-Y-D-A6-3-24
F	EM	60 W LED UNV	SAME AS FIXTURE "F" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE MODEL#R24-R5-L-B-C-A-G-06-7-D-E-Y-D-A6-3-24
F-12	PENDENT MOUNTED	120 W LED UNV	PENDENT MOUNTED 6" LED TYPE FIXTURE, 80 CRI, 3500K, 4500 LUMENS, 75% DOWN LIGHTING, SINGLE CIRCUIT, STANDARD WHITE COVER WITH DUST COVER, T-GRID ON GRID MOUNT.	MANUFACTURER: LEDALITE MODEL#R24-R5-L-B-C-A-G-12-7-D-E-Y-D-A6-3-24
F-12	EM	120 W LED UNV	SAME AS FIXTURE "F-12" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE MODEL#R24-R5-L-B-C-A-G-12-7-D-E-Y-D-A6-3-24
F-16	PENDENT MOUNTED	160 W LED UNV	PENDENT MOUNTED 16" LED TYPE FIXTURE, 80 CRI, 3500K, 4500 LUMENS, 75% DOWN LIGHTING, SINGLE CIRCUIT, STANDARD WHITE COVER WITH DUST COVER, T-GRID ON GRID MOUNT.	MANUFACTURER: LEDALITE MODEL#R24-R5-L-B-C-A-G-16-7-D-E-Y-D-A6-3-24
F-16	EM	160 W LED UNV	SAME AS FIXTURE "F-16" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE MODEL#R24-R5-L-B-C-A-G-16-7-D-E-Y-D-A6-3-24
G	RECESSED MOUNTED	113 W LED UNV	3" DIAMETER RECESSED LED FIXTURE, 300K COLOR TEMPERATURE, 9000 LUMENS, PROGRAMMABLE OUTPUT, SINGLE CIRCUIT, FLAT WHITE ACRYLIC LENS, TEXTURED MATTE WHITE FINISH, 0-10V DIMMING.	MANUFACTURER: PRUDENTIAL LIGHTING, P8900 MODEL #P8950-LED3-PROG-FWA-TMW-SC-UNV-X1-DM01
G	EM	113 W LED UNV	SAME AS FIXTURE "G" BUT WIRED TO GENERATOR	MANUFACTURER: PRUDENTIAL LIGHTING, P8900 MODEL #P8950-LED3-PROG-FWA-TMW-SC-UNV-X1-DM01
H-8	PENDENT MOUNTED	58 W LED UNV	8' LONG LED TYPE FIXTURE, 80 CRI, 3000K, 3400 LUMENS PER 4', MESOPTIC LENS, 50% DISTRIBUTION, TITANIUM SILVER FINISH, UNIVERSAL VOLTAGE, 24" SUSPENSION.	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-8-7-D-E-T-A6-3-24
H-8	EM	58 W LED UNV	SAME AS FIXTURE "H-8" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-8-7-D-E-T-A6-3-24
H-16	PENDENT MOUNTED	116 W LED UNV	16' LONG LED TYPE FIXTURE, 80 CRI, 3000K, 3400 LUMENS PER 4', MESOPTIC LENS, 50% DISTRIBUTION, TITANIUM SILVER FINISH, UNIVERSAL VOLTAGE, 24" SUSPENSION.	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-16-7-D-E-T-A6-3-24
H-16	EM	116 W LED UNV	SAME AS FIXTURE "H-16" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-16-7-D-E-T-A6-3-24
H-20	PENDENT MOUNTED	145 W LED UNV	20' LONG LED TYPE FIXTURE, 80 CRI, 3000K, 3400 LUMENS PER 4', MESOPTIC LENS, 50% DISTRIBUTION, TITANIUM SILVER FINISH, UNIVERSAL VOLTAGE, 24" SUSPENSION.	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-20-7-D-E-T-A6-3-24
H-20	EM	145 W LED UNV	SAME AS FIXTURE "H-20" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-20-7-D-E-T-A6-3-24
H-24	PENDENT MOUNTED	174 W LED UNV	24' LONG LED TYPE FIXTURE, 80 CRI, 3000K, 3400 LUMENS PER 4', MESOPTIC LENS, 50% DISTRIBUTION, TITANIUM SILVER FINISH, UNIVERSAL VOLTAGE, 24" SUSPENSION.	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-24-7-D-E-T-A6-3-24
H-24	EM	174 W LED UNV	SAME AS FIXTURE "H-24" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-24-7-D-E-T-A6-3-24
H-30	PENDENT MOUNTED	145 W LED UNV	20' LONG LED TYPE FIXTURE, 80 CRI, 3000K, 3400 LUMENS PER 4', MESOPTIC LENS, 50% DISTRIBUTION, TITANIUM SILVER FINISH, UNIVERSAL VOLTAGE, 24" SUSPENSION.	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-20-7-D-E-T-A1-24
H-30	EM	145 W LED UNV	SAME AS FIXTURE "H-30" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-20-7-D-E-T-A1-24
J	SURFACE WALL MOUNTED	18 W LED UNV	WALL MOUNTED LED TYPE LIGHTING, 1674 LUMENS, 3000K COLOR TEMPERATURE, CLEAR LENS, DIFFUSE LENS, WHITE FINISH, 0-10V DIMMING, UNIVERSAL VOLTAGE.	MANUFACTURER: SELUX MODEL #KJUC-1A55-3G-LF-WH-U-DIM
J	EM	18 W LED UNV	WALL MOUNTED LED TYPE LIGHTING, 1674 LUMENS, 3000K COLOR TEMPERATURE, CLEAR LENS, DIFFUSE LENS, WHITE FINISH, 0-10V DIMMING, UNIVERSAL VOLTAGE.	MANUFACTURER: SELUX MODEL #KJUC-1A55-3G-LF-WH-U-DIM
K	SURFACE WALL MOUNTED	26 W LED UNV	18" SURFACE MOUNTED LED TYPE FIXTURES, 3300 LUMENS, 3000K COLOR TEMPERATURE, STANDARD OUTPUT, SAPPHIRE MATTE FINISH, DIRECT LIGHT DISTRIBUTION, 0-10V DIMMING, UNIVERSAL VOLTAGE.	MANUFACTURER: PRUDENTIAL LIGHTING MODEL #G2zRDH-18-LED3-SO-YSAM-D1-SC-UNV-SUR-X1-DM01
K	EM	26 W LED UNV	SAME AS FIXTURE "K-2" BUT WIRED TO GENERATOR	MANUFACTURER: PRUDENTIAL LIGHTING MODEL #G2zRDH-18-LED3-SO-YSAM-D1-SC-UNV-SUR-X1-DM01
K-2	SURFACE WALL MOUNTED	15 W LED UNV	24" SURFACE MOUNTED LED TYPE FIXTURES, 1700 LUMENS, 3000K COLOR TEMPERATURE, LOW OUTPUT, SAPPHIRE MATTE FINISH, DIRECT LIGHT DISTRIBUTION, 0-10V DIMMING, UNIVERSAL VOLTAGE.	MANUFACTURER: PRUDENTIAL LIGHTING MODEL #G2zRDH-24-LED3-L0-YSAM-D1-SC-UNV-SUR-X1-DM01
K-2	EM	15 W LED UNV	SAME AS FIXTURE "K-2" BUT WIRED TO GENERATOR	MANUFACTURER: PRUDENTIAL LIGHTING MODEL #G2zRDH-24-LED3-L0-YSAM-D1-SC-UNV-SUR-X1-DM01

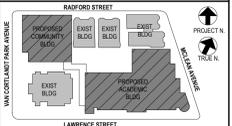
LIGHTING FIXTURE SCHEDULE				
TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
AA	RECESSED MOUNTED	33W LED UNV	2" WIDE LED TYPE RECESSED FIXTURE, 4300 LUMENS, 3000K COLOR TEMPERATURE, 80 CRI, DIFFUSED SMOOTH LENS, 0-10V DIMMING, SUITABLE FOR GRID CEILING.	MANUFACTURER: DAYBRITE BY SIGNIFY MODEL# 2-FFX-G-43L-830-4-DS-UNV-DIM
AA	EM	33W LED UNV	SAME AS FIXTURE "AA" BUT WIRED TO GENERATOR	MANUFACTURER: DAYBRITE BY SIGNIFY MODEL# 2-FFX-G-43L-830-4-DS-UNV-DIM
BB	RECESSED MOUNTED	77 W LED UNV	2'x2' LED TYPE FIXTURE WITH FLANGED MOUNTING STANDARD WHITE LIGHT ANTIMICROBIAL POLYESTER POWDER COAT FINISH, 4000 LUMENS, 30K COLOR TEMPERATURE, 0-10V DIMMING.	MANUFACTURER: PMC LIGHTING MODEL# SC2134RPL-FL-SWEM-30K-2'X2'-FCA-WHT-UNV
BB	EM	77 W LED UNV	SAME AS FIXTURE "BB" BUT WIRED TO GENERATOR	MANUFACTURER: PMC LIGHTING MODEL# SC2134RPL-FL-SWEM-30K-2'X2'-FCA-WHT-UNV
CC	RECESSED MOUNTED	40 W LED UNV	2'x2' LED TYPE FIXTURE, 3500K COLOR TEMPERATURE, 4000 LUMENS, 80 CRI, ALUMINUM DOOR FRAME, SEAL COVER LENS.	MANUFACTURER: DAY BRITE CFI MODEL# K1-22-40L-835-G-6-VPL-U
CC	EM	40 W LED UNV	SAME AS FIXTURE "CC" BUT WIRED TO GENERATOR	MANUFACTURER: DAY BRITE CFI MODEL# K1-22-40L-835-G-6-VPL-U
CC-2	RECESSED MOUNTED	40 W LED UNV	1'x4' LED TYPE FIXTURE, 3500K COLOR TEMPERATURE, 4000 LUMENS, 80 CRI, ALUMINUM DOOR FRAME, SEAL LOUVER LENS.	MANUFACTURER: DAY BRITE CFI MODEL# K1-14-40L-835-G-6-VPL-U
CC-2	EM	40 W LED UNV	SAME AS FIXTURE "CC-2" BUT WIRED TO GENERATOR	MANUFACTURER: DAY BRITE CFI MODEL# K1-14-40L-835-G-6-VPL-U
DD	RECESSED MOUNTED	8 W LED UNV	1'x4' LED TYPE FIXTURE, 3000K COLOR TEMPERATURE, SINGLE CIRCUIT, TEXTURED MATTE WHITE TRIM COLOR SATIN ACRYLIC LENS, 0-10V DIMMING	MANUFACTURER: PRUDENTIAL LIGHTING MODEL# P33-LED3-MO-4-TMW-SAL-D1-SC-UNV-X1-DM01
DD	EM	8 W LED UNV	SAME AS FIXTURE "DD" BUT WIRED TO GENERATOR	MANUFACTURER: PRUDENTIAL LIGHTING MODEL# P33-LED3-MO-4-TMW-SAL-D1-SC-UNV-X1-DM01
EE	RECESSED MOUNTED	24 W LED UNV	2'x2' LED TYPE FIXTURE, 3000 LUMENS, 80 CRI, 3000K LUMENS, PERFORATED DIFFUSER, 0-10V DIMMING	MANUFACTURER: DAYBRITE MODEL# 2-FFX-G-30L-830-2-DSPF-UNV-DIM
EE	EM	24 W LED UNV	SAME AS FIXTURE "EE" BUT WIRED TO GENERATOR	MANUFACTURER: DAYBRITE MODEL# 2-FFX-G-30L-830-2-DSPF-UNV-DIM
EE-1	RECESSED MOUNTED	34 W LED UNV	2'x2' LED TYPE FIXTURE, 3800 LUMENS, 80 CRI, 3000K LUMENS, PERFORATED DIFFUSER, 0-10V DIMMING	MANUFACTURER: DAYBRITE MODEL# 2-FFX-G-38L-830-2-DSPF-UNV-DIM
EE-1	EM	34 W LED UNV	SAME AS FIXTURE "EE" BUT WIRED TO GENERATOR	MANUFACTURER: DAYBRITE MODEL# 2-FFX-G-38L-830-2-DSPF-UNV-DIM
FF	RECESSED MOUNTED	29 W LED UNV	2'x4' LED TYPE FIXTURE, 3800 LUMENS, 80 CRI, 3000K LUMENS, SMOOTH DIFFUSER, 0-10V DIMMING.	MANUFACTURER: DAYBRITE CFI MODEL# 2-FP2-38L-835-4-DS-UNV-DIM
FF	EM	29 W LED UNV	SAME AS FIXTURE "FF" BUT WIRED TO GENERATOR	MANUFACTURER: DAYBRITE CFI MODEL# 2-FP2-38L-835-4-DS-UNV-DIM
GG	PENDENT MOUNTED	12 W LED UNV	9" PENDENT MOUNTED DECORATIVE LED FIXTURE, 3000K COLOR TEMPERATURE, 90 CRI, MEDIUM OUTPUT, TOP GLOW FROSTED UP LIGHTING, SINGLE CIRCUIT, 48" STEMCORD, 0-10V DIMMING	MANUFACTURER: PRUDENTIAL LTG MODEL# SDP-9-MO-TG1-LGNA-YSL-UNV-STC48-EBCT1G-YSL-XTF-DM01
GG	EM	12 W LED UNV	SAME AS FIXTURE "GG" BUT WIRED TO GENERATOR	MANUFACTURER: PRUDENTIAL LTG MODEL# SDP-9-MO-TG1-LGNA-YSL-UNV-STC48-EBCT1G-YSL-XTF-DM01
A	RECESSED MOUNTED	20 W LED UNV	6" ROUND LED TYPE DOWNLIGHTING, 2000 LUMENS, 3000K COLOR TEMPERATURE, 80 CRI, BAFFLED DOWNLIGHTING, WHITE FINISH, 0-10V DIMMING	MANUFACTURER: LIGHTOLIER MODEL# L6R-20-A-Z10-U-VA-L6R-20-8-30-VA-L6R-B-W
A	EM	20 W LED UNV	SAME AS FIXTURE "A" BUT WIRED TO GENERATOR	MANUFACTURER: LIGHTOLIER MODEL# L6R-20-A-Z10-U-VA-L6R-20-8-30-VA-L6R-B-W
A-3	RECESSED MOUNTED	10 W LED UNV	2" ROUND RECESSED DECORATIVE DOWNLIGHTING, LED TYPE, 600 LUMENS, 90 CRI, 3000K COLOR TEMPERATURE, 0-10V DIMMING, 2" ROUND TRIM, ADJUSTABLE ACCENT, WHITE FINISH.	MANUFACTURER: LIGHTOLIER MODEL# C2R-A-06-9-30-SP-UPZU-C2R-A-WT
A-3	EM	10 W LED UNV	SAME AS FIXTURE "A-3" BUT WIRED TO GENERATOR	MANUFACTURER: LIGHTOLIER MODEL# C2R-A-06-9-30-SP-UPZU-C2R-A-WT
A-4	RECESSED MOUNTED	9 W LED UNV	3" ROUND RECESSED DOWNLIGHT, 80 CRI, 3000K COLOR TEMPERATURE, FLOOD BEAM, FLOOD TRIM, SHOWER TIGHT, WHITE FINISH, HARD WHITE FLANGE.	MANUFACTURER: LIGHTOLIER MODEL# L3-A-E-U-L3-08-8-30-F-L3-R-S-W-W
A-4	EM	9 W LED UNV	SAME AS FIXTURE "A-4" BUT WIRED TO GENERATOR	MANUFACTURER: LIGHTOLIER MODEL# L3-A-E-U-L3-08-8-30-F-L3-R-S-W-W
A-5	RECESSED MOUNTED	16 W LED UNV	4" DOWN LED TYPE FIXTURE, 1500 LUMENS, 80 CRI, 3000K COLOR TEMPERATURE, MEDIUM BEAM, 0-10V DIMMING, WHITE FINISH.	MANUFACTURER: LIGHTOLIER MODEL# 4R-N-CAL-15-8-30-M210-U-C4-R-DL-WH
A-5	EM	16 W LED UNV	SAME AS FIXTURE "A-5" BUT WIRED TO GENERATOR	MANUFACTURER: LIGHTOLIER MODEL# 4R-N-CAL-15-8-30-M210-U-C4-R-DL-WH
A-6	RECESSED MOUNTED	14 W LED UNV	6" DOWN LED TYPE FLAT DOWNLIGHT, 900 LUMENS, 3000K COLOR TEMPERATURE, 0-10V DIMMING, WHITE FINISH.	MANUFACTURER: LIGHTOLIER MODEL# FD-6R-3000K-FD-6NCP
A-6	EM	14 W LED UNV	SAME AS FIXTURE "A-6" BUT WIRED TO GENERATOR	MANUFACTURER: LIGHTOLIER MODEL# FD-6R-3000K-FD-6NCP
B	RECESSED MOUNTED	15 W LED UNV	4" SQUARE LED TYPE DOWNLIGHTING, 2000 LUMENS, 3000K COLOR TEMPERATURE, 80 CRI, WHITE MATTE FINISH, DOWNLIGHTING, 0-10V DIMMING	MANUFACTURER: LIGHTOLIER MODEL# 4-S-N-P4S-DL-15-830-WH-Z10-U
B	EM	15 W LED UNV	SAME AS FIXTURE "B" BUT WIRED TO GENERATOR	MANUFACTURER: LIGHTOLIER MODEL# 4-S-N-P4S-DL-15-830-WH-Z10-U
B-1	RECESSED MOUNTED	21 W LED UNV	4" SQUARE LED TYPE DOWNLIGHTING, 2000 LUMENS, 3000K COLOR TEMPERATURE, 80 CRI, WHITE MATTE FINISH, DOWNLIGHTING, 0-10V DIMMING	MANUFACTURER: LIGHTOLIER MODEL# 4-S-N-P4S-DL-20-830-WH-Z10-U
B-1	EM	21 W LED UNV	SAME AS FIXTURE "B-1" BUT WIRED TO GENERATOR	MANUFACTURER: LIGHTOLIER MODEL# 4-S-N-P4S-DL-20-830-WH-Z10-U
B-2	RECESSED MOUNTED	15 W LED UNV	6" SQUARE LED TYPE RECESSED SQUARE LIGHT, 80 CRI, 3000K COLOR TEMPERATURE, 1000 LUMENS, BLACK FINISH, 0-10V.	MANUFACTURER: LIGHTOLIER MODEL# S6S-8-30K-10-BK-Z10-U

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE
 YONKERS JOINT SCHOOL CONSTRUCTION BOARD
 121 McLean Avenue
 Yonkers, NY 10705



NY SED PROJECT CONTROL NO.
 66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



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No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

LIGHTING SCHEDULES

Job No.	Date
2019-1026	8/31/20

Scale	Drawn / Checked
AS NOTED	BGA / BGA

Sheet Number

E601

NEW		ELECTRICAL PANEL SCHEDULE												
PNL: PP-1		MOUNTING: SURFACE		MAIN LUGS ONLY			MAIN C BKR-		GROUND BUS: X					
208Y120, 3 PHASE, 4 WIRE		(NEMA 1) FLUSH		DOUBLE LUGS			225A/3P		ISOLATED GROUND BUS:					
22 .000MM A.I.C. SYM		IN MCC		FEED THRU LUG			MAIN BUS -		TVSS:					
NEUTRAL: 100%				SHUNT TRIP MAIN			225 A		NUMBER OF POLES: 84					
CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE	A	B	C	KVA / PHASE CND.	WIRE	LOAD	TRIP (AMP)	CKT No.	
1	20	LIGHTING	2#12+1#12G	3/4	1.20				1.20	3/4	2#12+1#12G	LIGHTING	20	2
2	20	104 SB	2#12+1#12G	3/4	0.50				0.30	3/4	2#12+1#12G	AUTO FAUCET	20	4
3	20	P16-K 103 SB	2#12+1#12G	3/4	0.50				0.54	3/4	2#12+1#12G	CORR RECEPT	20	6
4	20	113 SB	2#12+1#12G	3/4	0.50				0.70	3/4	2#12+1#12G	CORR RECEPT	20	8
5	20	112 SB	2#12+1#12G	3/4	0.50				0.30	3/4	2#12+1#12G	LIGHTING	20	10
6	20	CR RECEPT	2#12+1#12G	3/4	0.54				0.30	3/4	2#12+1#12G	LIGHTING	20	12
7	20	RM 104	2#12+1#12G	3/4	0.90				0.90	3/4	2#12+1#12G	106 RECEPT	20	14
8	20	MAIN OFF LIGHTS	2#12+1#12G	3/4	0.36				0.54	3/4	2#12+1#12G	CORR RECEPT	20	16
9	20	112A RECEPT	2#12+1#12G	3/4	0.30				0.90	3/4	2#12+1#12G	RM 102	20	18
10	20	MOT SHADES	2#12+1#12G	3/4	0.50				0.50	3/4	2#12+1#12G	105 DISPLAY	20	20
11	20	BATHROOM REC	2#12+1#12G	3/4	0.30				0.50	3/4	2#12+1#12G	DH	20	22
12	20	BOTTLE FILLER	2#12+1#12G	3/4	0.80				0.30	3/4	2#12+1#12G	BATHROOM	20	24
13	20	REFRIGERATOR	2#12+1#12G	3/4	0.50				0.34	3/4	2#12+1#12G	RECEPT 102	20	26
14	20	107 RECEPT	2#12+1#12G	3/4	0.72				1.08	3/4	2#12+1#12G	CAFE RECEPT	20	28
15	20	DH	2#12+1#12G	3/4	0.50				1.20	3/4	2#12+1#12G	CAFE RECEPT	20	30
16	20	MW	2#12+1#12G	3/4	1.00				0.72	3/4	2#12+1#12G	105 RECEPT	20	32
17	20	BATHROOM RECEPT	2#12+1#12G	3/4	0.30				0.90	3/4	2#12+1#12G	RM 113	20	34
18	20	AUTO FAUCET	2#12+1#12G	3/4	0.30				0.90	3/4	2#12+1#12G	RM 112	20	36
19	20	BATHROOM RECEPT	2#12+1#12G	3/4	0.30				0.50	3/4	2#12+1#12G	REFRIGERATOR	20	38
20	20	WATER FOUNT	2#12+1#12G	3/4	0.50				0.50	3/4	2#12+1#12G	REFRIGERATOR	20	40
21	20	MW	2#12+1#12G	3/4	1.00				1.00	3/4	2#12+1#12G	COPIER	20	42
22	20	OFF COPIER	2#12+1#12G	3/4	0.50				0.34	3/4	2#12+1#12G	102 RECEPT	20	44
23	20	CAFE DISPLAY	2#12+1#12G	3/4	0.50				1.08	3/4	2#12+1#12G	CAFE RECEPT	20	46
24	20	EXT RECEPT	2#12+1#12G	3/4	0.54				0.20	3/4	2#12+1#12G	DOOR CONTROL	20	48
25	20	SPARE	-	-	0.00				0.50	3/4	2#12+1#12G	CORR DISPLAY	20	50
26	20	CORR DISPLAY	2#12+1#12G	3/4	0.50				-	-	-	SPARE	20	52
27	20	MS CONTROLLER	2#12+1#12G	3/4	0.50				-	-	-	SPARE	20	54
28	20	CORR RECEPT	2#12+1#12G	3/4	0.54				0.50	3/4	2#12+1#12G	COUNTER RECEPT	20	56
29	20	COUNTER RECEPT	2#12+1#12G	3/4	0.50				-	-	-	SPARE	20	58
30	20	SPARE	-	-	-				-	-	-	SPARE	20	60
31	20	SPARE	-	-	-				-	-	-	SPARE	20	62
32	20	SPARE	-	-	-				-	-	-	SPARE	20	64
33	20	SPARE	-	-	-				-	-	-	SPARE	20	66
34	20	SPARE	-	-	-				-	-	-	SPARE	20	68
35	20	SPARE	-	-	-				-	-	-	SPARE	20	70
36	20	SPARE	-	-	-				-	-	-	SPARE	20	72
37	20	SPARE	-	-	-				-	-	-	SPARE	20	74
38	20	SPARE	-	-	-				-	-	-	SPARE	20	76
39	20	SPARE	-	-	-				-	-	-	SPARE	20	78
40	20	SPARE	-	-	-				-	-	-	SPARE	20	80
41	20	SPARE	-	-	-				-	-	-	SPARE	20	82
42	20	SPARE	-	-	-				-	-	-	SPARE	20	84
SUBTOTALS		6.54 5.24 4.72			6.54 4.80 5.14			SUBTOTALS			LIGHTING: 3.76 KVA			
TOTAL LOADS		13.1 KVA PHASE A			15.6 KVA PHASE B			RECEPTACLE: 0.00 KVA			KITCHEN: 0.00 KVA			
TOTAL CONN. LOAD		33.0 KVA 91.0 A			43.1 KVA 120.0 A			MOTOR: 0.00 KVA			POWER: 29.02 KVA			
TOTAL DEMAND LOAD		32.8 KVA 91.0 A			43.1 KVA 120.0 A			TOTAL:			32.78 KVA			

NEW		ELECTRICAL PANEL SCHEDULE												
PNL: PP-2		MOUNTING: SURFACE		MAIN LUGS ONLY			MAIN C BKR-		GROUND BUS: X					
208Y120, 3 PHASE, 4 WIRE		(NEMA 1) FLUSH		DOUBLE LUGS			225A/3P		ISOLATED GROUND BUS:					
22 .000MM A.I.C. SYM		IN MCC		FEED THRU LUG			MAIN BUS -		TVSS:					
NEUTRAL: 100%				SHUNT TRIP MAIN			225 A		NUMBER OF POLES: 84					
CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE	A	B	C	KVA / PHASE CND.	WIRE	LOAD	TRIP (AMP)	CKT No.	
1	20	DH	2#12+1#12G	3/4	0.50				0.30	3/4	2#12+1#12G	DH	20	2
2	20	204 DISP	2#12+1#12G	3/4	0.50				0.90	3/4	2#12+1#12G	204	20	4
3	20	CR204	2#12+1#12G	3/4	0.54				0.54	3/4	2#12+1#12G	LIB	20	6
4	20	CR205	2#12+1#12G	3/4	0.54				0.90	3/4	2#12+1#12G	RECEPT	20	8
5	20	CR206	2#12+1#12G	3/4	0.54				0.30	3/4	2#12+1#12G	205	20	10
6	20	CR202	2#12+1#12G	3/4	0.54				0.50	3/4	2#12+1#12G	CORR RECEPT	20	12
7	20	CORR RECEPT	2#12+1#12G	3/4	0.54				0.50	3/4	2#12+1#12G	203 DISP	20	14
8	20	BATHROOM 202	2#12+1#12G	3/4	0.30				0.50	3/4	2#12+1#12G	CORR DISP	20	16
9	20	CR201 SB	2#12+1#12G	3/4	0.50				0.90	3/4	2#12+1#12G	202	20	18
10	20	LIB RECEPT	2#12+1#12G	3/4	0.34				0.90	3/4	2#12+1#12G	201	20	20
11	20	SP EDU 220 SB	2#12+1#12G	3/4	0.50				0.30	3/4	2#12+1#12G	FSD	20	22
12	20	BATHROOM	2#12+1#12G	3/4	0.30				0.54	3/4	2#12+1#12G	FLOOR BOX	20	24
13	20	SP EDU 219	2#12+1#12G	3/4	0.90				0.54	3/4	2#12+1#12G	RECEPT	20	26
14	20	C217 SB	2#12+1#12G	3/4	0.50				0.30	3/4	2#12+1#12G	BATHROOM	20	28
15	20	JANITOR	2#12+1#12G	3/4	0.34				0.90	3/4	2#12+1#12G	218	20	30
16	20	SP EDU	2#12+1#12G	3/4	0.34				0.50	3/4	2#12+1#12G	LIB STUD DESK	20	32
17	20	CR210 SB	2#12+1#12G	3/4	0.50				0.90	3/4	2#12+1#12G	RM 217	20	34
18	20	LIB STUD DESK	2#12+1#12G	3/4	0.50				0.50	3/4	2#12+1#12G	218 SB	20	36
19	20	CORR RECEPT	2#12+1#12G	3/4	0.50				0.50	3/4	2#12+1#12G	219 SB	20	38
20	20	CORR RECEPT	2#12+1#12G	3/4	0.54				0.50	3/4	2#12+1#12G	LIB DISPLAY	20	40
21	20	LIB 215	2#12+1#12G	3/4	0.54				0.54	3/4	2#12+1#12G	MK SPACE	20	42
22	20	CORR RECEPT	2#12+1#12G	3/4	0.50				0.30	3/4	2#12+1#12G	BATHROOM	20	44
23	20	BATHROOM	2#12+1#12G	3/4	0.30				0.30	3/4	2#12+1#12G	BATHROOM	20	46
24	20	215 LIGHT	2#12+1#12G	3/4	1.20				0.50	3/4	2#12+1#12G	WATER FT	20	48
25	20	210 RECEPT	2#12+1#12G	3/4	0.90				0.54	3/4	2#12+1#12G	MECH RM	20	50
26	20	213	2#12+1#12G	3/4	0.74				0.90	3/4	2#12+1#12G	211 RECEPT	20	52
27	20	203	2#12+1#12G	3/4	0.74				0.70	3/4	2#12+1#12G	RM 212	20	54
28	20	LIGHTING	2#12+1#12G	3/4	1.10				0.70	3/4	2#12+1#12G	RM 214	20	56
29	20	LIGHTING	2#12+1#12G	3/4	1.10				0.30	3/4	2#12+1#12G	217A	20	58
30	20	LIGHTING	2#12+1#12G	3/4	0.70				0.30	3/4	2#12+1#12G	LIGHTING	20	60
31	20	COR LIGHT	2#12+1#12G	3/4	1.10				1.50	3/4	2#12+1#12G	LIGHTING	20	62
32	20	FSD	2#12+1#12G	3/4	0.50				1.08	3/4	2#12+1#12G	RM 220	20	64
33	20	FLOOR BOX	2#12+1#12G	3/4	0.54				0.30	3/4	2#12+1#12G	BATHROOM	20	66
34	20	FB MK SPACE	2#12+1#12G	3/4	0.54				0.50	3/4	2#12+1#12G	LIB DISP	20	68
35	20	RM 204	2#12+1#12G	3/4	0.90				0.50	3/4	2#12+1#12G	DISP	20	70
36	20	MS DISPLAY	2#12+1#12G	3/4	0.50				0.50	3/4	2#12+1#12G	220 DISP	20	72
37	20	LIB STUD DESK	2#12+1#12G	3/4	0.50				-	-	-	SPARE	20	74
38	20	LASER PRINT	2#12+1#12G	3/4	0.50				-	-	-	SPARE	20	76
39	20	LASER PRINT	2#12+1#12G	3/4	0.50				-	-	-	SPARE	20	78
40	20	SPARE	-	-	-				-	-	-	SPARE	20	80
41	20	SPARE	-	-	-				-	-	-	SPARE	20	82
42	20	SPARE	-	-	-				-	-	-	SPARE	20	84
SUBTOTALS		7.94 7.80 7.46			6.52 7.78 5.58			SUBTOTALS			LIGHTING: 7.00 KVA			
TOTAL LOADS		14.5 KVA PHASE A			15.6 KVA PHASE B			RECEPTACLE: 0.00 KVA			KITCHEN: 0.00 KVA			
TOTAL CONN. LOAD		44.9 KVA 125.0 A			44.9 KVA 125.0 A			MOTOR: 0.00 KVA			POWER: 36.08 KVA			
TOTAL DEMAND LOAD		44.9 KVA 125.0 A			44.9 KVA 125.0 A			TOTAL:			44.86 KVA			

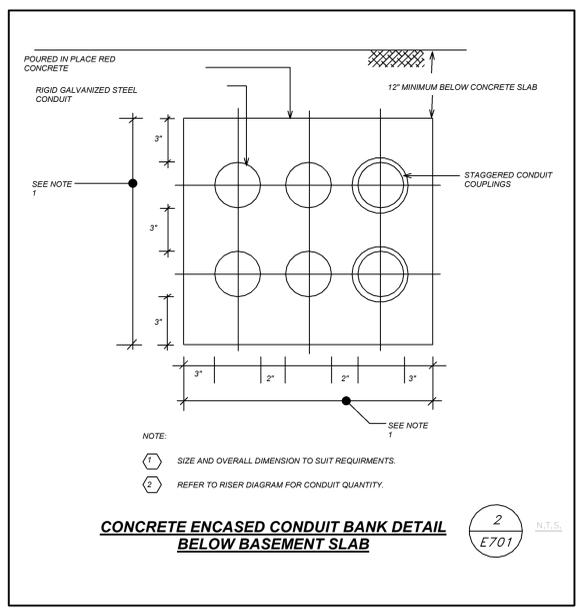
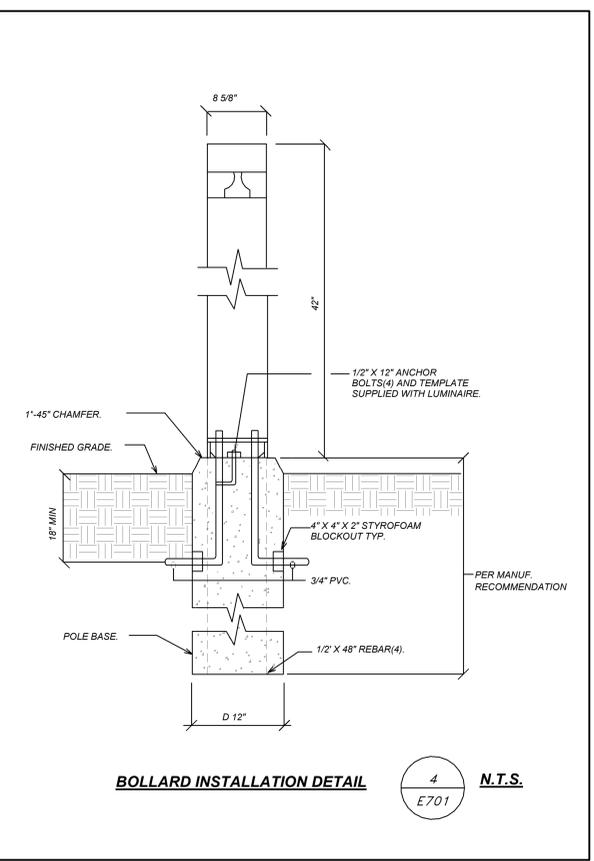
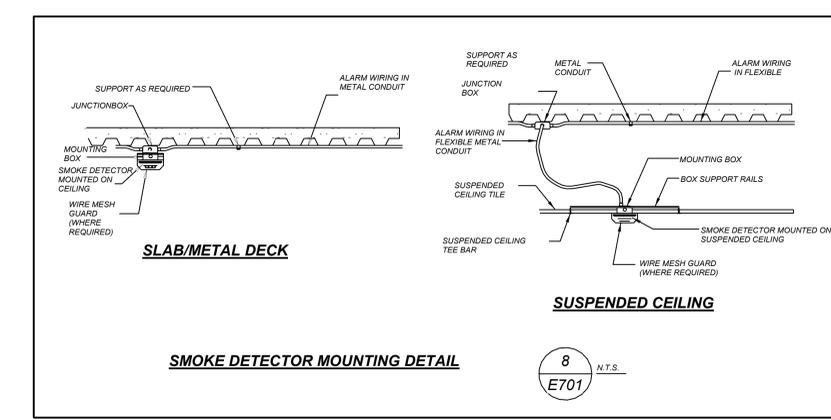
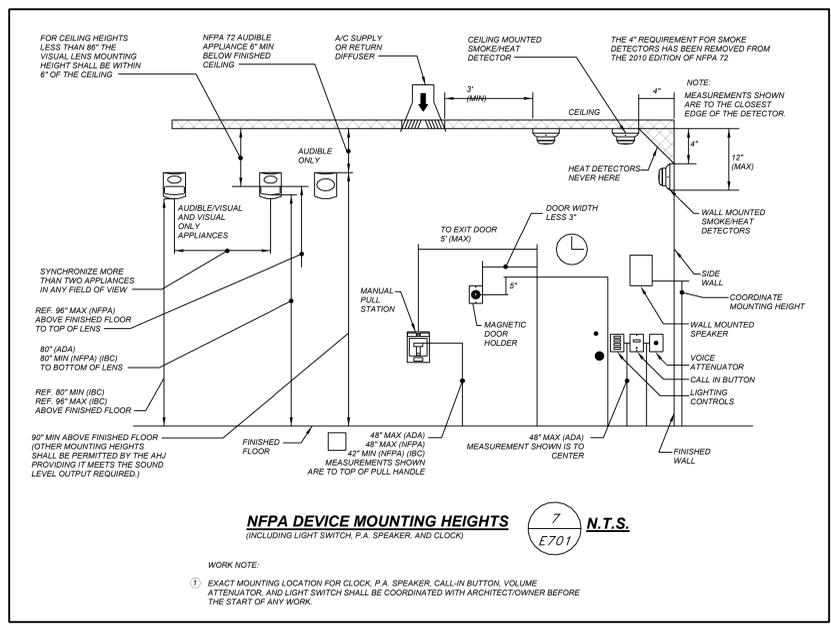
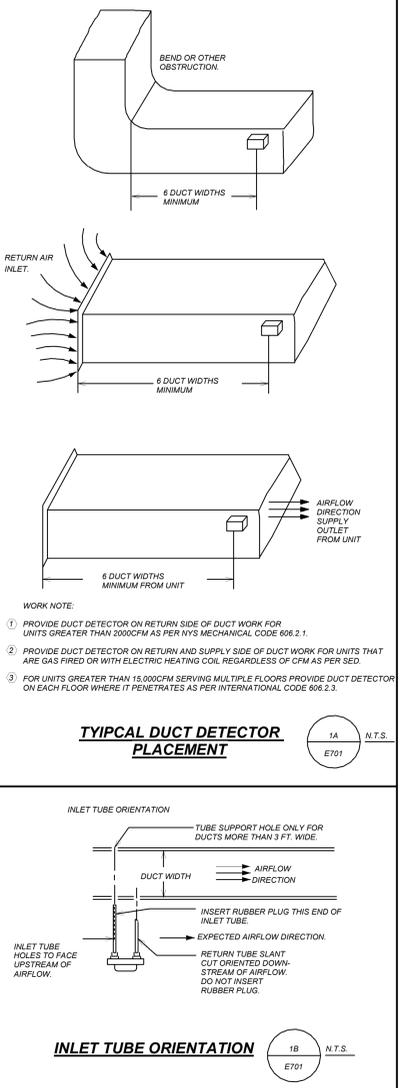
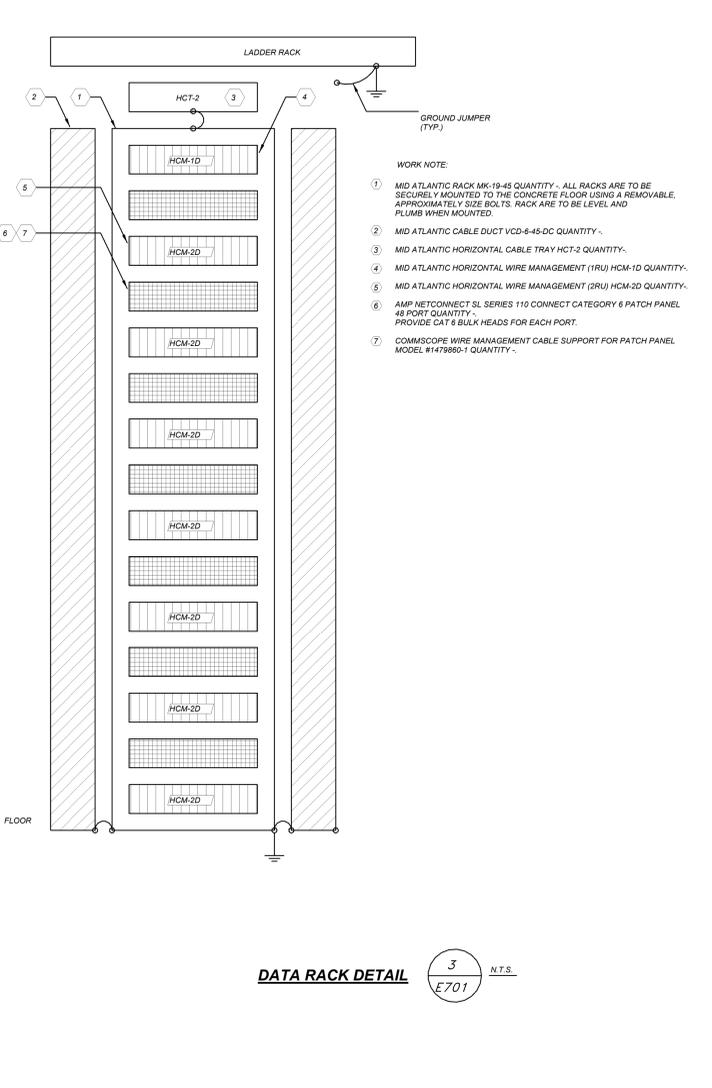
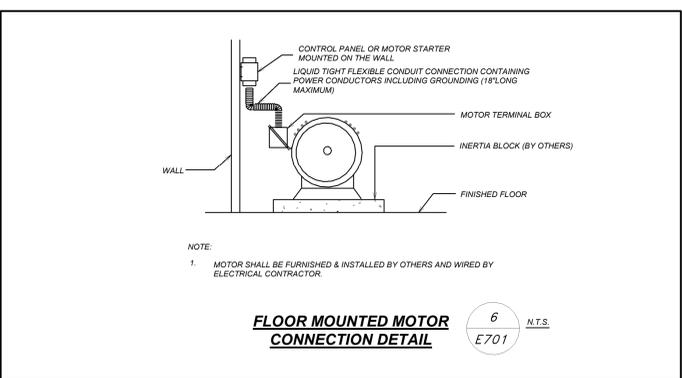
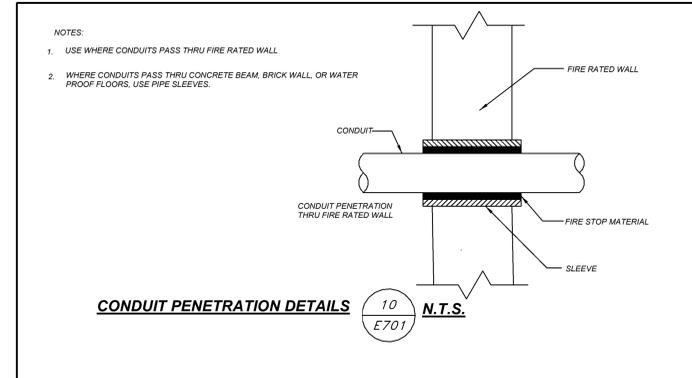
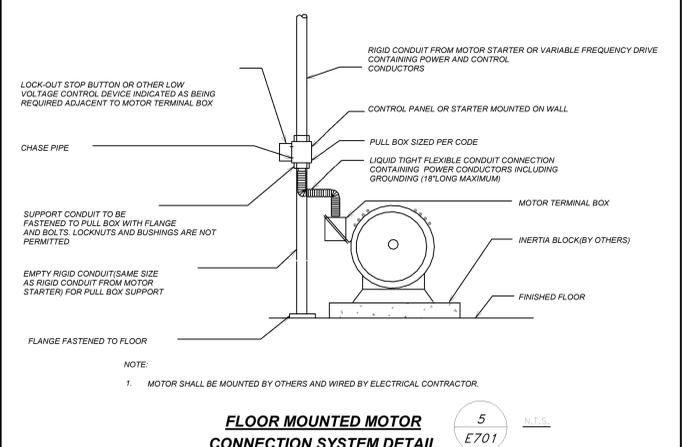
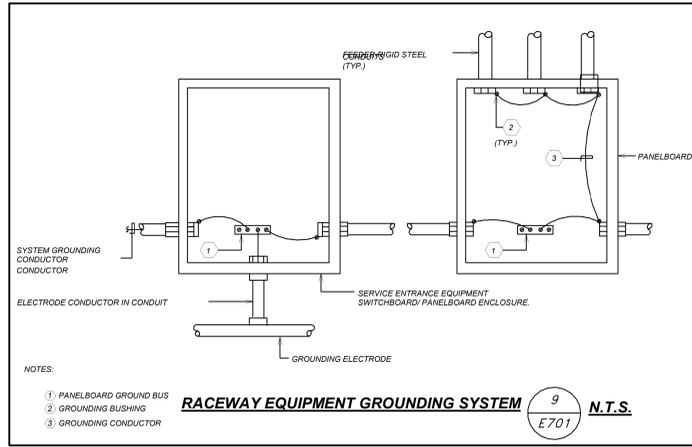
NEW		ELECTRICAL PANEL SCHEDULE												
PNL: PP-3		MOUNTING: SURFACE		MAIN LUGS ONLY			MAIN C BKR-		GROUND BUS: X					
208Y120, 3 PHASE, 4 WIRE		(NEMA 1) FLUSH		DOUBLE LUGS			225A/3P		ISOLATED GROUND BUS:					
22 .000MM A.I.C. SYM		IN MCC		FEED THRU LUG			MAIN BUS -		TVSS:					
NEUTRAL: 100%				SHUNT TRIP MAIN			225 A		NUMBER OF POLES: 84					
CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE	A	B	C	KVA / PHASE CND.	WIRE	LOAD	TRIP (AMP)	CKT No.	
1	20	CORR RECEPT	2#12+1#12G	3/4	0.54				0.54	3/4	2#12+1#12G	CORR RECEPT	20	2
2	20	CORR DISP	2#12+1#12G	3/4	0.50									

NEW ELECTRICAL PANEL SCHEDULE															
PNL: DP-EM		MOUNTING: SURFACE		MAIN LUGS ONLY		MAIN C BKR-		GROUND BUS: X							
208Y/120, 3 PHASE, 4 WIRE		(NEMA 1) FLUSH		DOUBLE LUGS		ISOLATED GROUND BUS:									
14 .000MIN A.I.C. SYM		IN MCC		FEED THRU LUG		MAIN BUS -		TVSS:							
NEUTRAL: 100%				SHUNT TRIP MAIN		200 A		NUMBER OF POLES: 18							
CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE	A	B	C	KVA / PHASE	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.	
1	20	ELEV SUMP PUMP	2#12+1#12G	3/4	0.50				2.60		1	3#8-1#10G	HWP-2	3	2
3	20				0.50				2.60					4	
5	3				2.60				2.60					6	
7	20	HWP-1	3#6+1#10G		2.60				0.50		3/4	2#12+1#12G	SUMP PUMP	2	8
9	60				2.60				0.50					10	
11	20	RECEP	2#12+1#12G	3/4	0.40				1.20		-	SEE RISER	EM-3	3	12
13	3				1.00				1.20		-	SEE RISER		14	
15	20	EM-GYM	SEE RISER		1.00				1.20		-	SEE RISER		16	
17	50				1.00				2.60		-	SEE RISER	EM-1	3	18
19	3				0.50				2.60		-	SEE RISER		20	
21	20	JOCKEY PUMP	3#12+1#12G	3/4	0.50				0.50		3/4	2#12+1#12G	BATTERY CHARGER	2	22
23	50				0.50				0.50		3/4	2#12+1#12G	BLOK HEATER	2	26
25	20	CONTROL PANEL	2#12+1#12G	3/4	0.50				0.50		3/4	2#12+1#12G		2	28
27	20	SPARE			2.60				0.50		-	SPARE		2	30
29	20	SPARE			2.60				-		-	SPARE		2	30
SUBTOTALS		5.10		7.20		7.10		SUBTOTALS		7.40		7.10		SUBTOTALS	
TOTAL LOADS		12.5 KVA		PHASE A		18.00 KVA		LIGHTING:		0.00 KVA		RECEPTACLE:		0.00 KVA	
		14.6 KVA		PHASE B		0.00 KVA		KITCHEN:		0.00 KVA		MOTOR:		23.30 KVA	
		14.2 KVA		PHASE C		0.00 KVA		POWER:		0.00 KVA					
TOTAL CONN. LOAD		41.3 KVA		115.0 A				TOTAL:		41.30 KVA					
TOTAL DEMAND LOAD		41.3 KVA		115.0 A											

NEW ELECTRICAL PANEL SCHEDULE																
PNL: SB-KIT		MOUNTING: SURFACE		MAIN LUGS ONLY		MAIN C BKR-		GROUND BUS: X								
208Y/120, 3 PHASE, 4 WIRE		(NEMA 1) FLUSH		DOUBLE LUGS		ISOLATED GROUND BUS:										
22 .000MIN A.I.C. SYM		IN MCC		FEED THRU LUG		MAIN BUS -		TVSS:								
NEUTRAL: 100%				SHUNT TRIP MAIN		225 A		NUMBER OF POLES: 42								
CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE	A	B	C	KVA / PHASE	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.		
1	20	COOLER LIGHT	2#12+1#12G	3/4	0.50				0.90		3/4	3#10+1#10G	CONDENSING UNIT	3	2	
3	20	EVAP COIL	2#12+1#12G	3/4	0.50				0.90		3/4	3#10+1#10G		3	4	
5	20	HEAT WRAP	2#12+1#12G	3/4	0.50				0.90		3/4	3#10+1#10G		3	6	
7	20	REFRIGERATOR	2#12+1#12G	3/4	0.50				0.50		3/4	2#12+1#12G	REFRIGERATOR	2	8	
9	20	COOLER LIGHT BSM7	2#12+1#12G	3/4	0.50				0.50		3/4	2#12+1#12G	EVAP COIL	2	10	
11	20	HEAT WRAP	2#12+1#12G	3/4	1.00				0.90		0.90	3/4	3#10+1#10G	CONDENSING UNIT	3	12
13	20	DATA	2#12+1#12G	3/4	0.50				0.90		3/4	3#10+1#10G		3	14	
15	20	DATA	2#12+1#12G	3/4	0.50				0.90		3/4	3#10+1#10G		3	16	
17	20	SPARE			-				-		-	SPARE		2	18	
19	20	DATA	2#12+1#12G	3/4	0.50				-		-	SPARE		2	20	
21	20	SECURITY WINDOW	2#12+1#12G	3/4	0.34				-		-	SPARE		2	22	
23	20	SPARE			-				-		-	SPARE		2	24	
25	20	DATA	2#12+1#12G	3/4	0.50				-		-	SPARE		2	26	
27	20	DATA			-				0.20		3/4	2#12+1#12G	DS-A	2	28	
29	20	DATA			-				0.20		3/4	2#12+1#12G		2	30	
31	20	SECURITY WINDOW	2#12+1#12G	3/4	0.34				0.50		3/4	2#12+1#12G	DATA	2	32	
33	20	SPARE			-				-		-	SPARE		2	34	
35	20	SPARE			-				-		-	SPARE		2	36	
37	20	SPARE			-				-		-	SPARE		2	38	
39	20	SPARE			-				-		-	SPARE		2	40	
41	20	SPARE			-				-		-	SPARE		2	42	
SUBTOTALS		2.84		2.34		2.00		SUBTOTALS		2.80		2.50		2.00		
TOTAL LOADS		5.6 KVA		PHASE A		0.00 KVA		LIGHTING:		0.00 KVA		RECEPTACLE:		0.00 KVA		
		4.8 KVA		PHASE B		0.00 KVA		KITCHEN:		0.00 KVA		MOTOR:		10.64 KVA		
		4.0 KVA		PHASE C		0.00 KVA		POWER:		3.84 KVA						
TOTAL CONN. LOAD		14.5 KVA		40.0 A				TOTAL:		14.48 KVA						
TOTAL DEMAND LOAD		14.5 KVA		40.0 A												

NEW ELECTRICAL PANEL SCHEDULE															
PNL: KP-1		MOUNTING: SURFACE		MAIN LUGS ONLY		MAIN C BKR-		GROUND BUS: X							
208Y/120, 3 PHASE, 4 WIRE		(NEMA 1) FLUSH		DOUBLE LUGS		ISOLATED GROUND BUS:									
22 .000MIN A.I.C. SYM		IN MCC		FEED THRU LUG		MAIN BUS -		TVSS:							
NEUTRAL: 100%				SHUNT TRIP MAIN		400A		NUMBER OF POLES: 54							
CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE	A	B	C	KVA / PHASE	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.	
1	20	FIRE SUPPRESSION	2#12+1#12G	3/4	0.54				0.34		3/4	2#12+1#12G	EXHAUST HOOD	2	2
5	20	CONVENTION STOVE	2#12+1#12G	3/4	0.70				0.30		3/4	2#12+1#12G	GRIDDLE	2	6
9	20	CONV RECEP	2#12+1#12G	3/4	1.20				0.30		3/4	2#12+1#12G	GAS DETECTOR	2	10
11	20	CONV RECEP	2#12+1#12G	3/4	1.20				1.60		3/4	2#10+1#10G	HOT CABINET	3	12
13	20	POS	2#12+1#12G	3/4	0.50				0.70		3/4	2#12+1#12G	CONV STOVE	2	14
15	20	BRAISAN PAN	2#12+1#12G	3/4	0.30				-		-	SPARE		2	16
19	20	SPARE			-				-		-	SPARE		2	18
21	3				2.30				0.50		3/4	2#12+1#12G	FIRE SHUTTER	2	22
23	50	CUSTOM CAB RECEP	3#8+1#10G	3/4	2.30				0.50		3/4	2#12+1#12G	SPARE	2	24
25	50				2.30				0.50		3/4	2#12+1#12G	CONV RECEP	2	26
27	20	CONV RECEP	2#12+1#12G	3/4	0.50				2.00		3/4	3#10+1#10G	HOT WATER BOOSTER	3	28
29	20	CONV RECEP	2#12+1#12G	3/4	0.34				2.00		3/4	3#10+1#10G		3	30
33	3	DISHWASHER	3#6+1#10G	1	2.60				0.34		3/4	2#12+1#12G	CONV RECEP	2	32
35	60				2.60				0.54		3/4	2#12+1#12G	CONV RECEP	2	36
37	20	AUTO FAUCET	2#12+1#12G	3/4	0.50				0.30		3/4	2#12+1#12G	EF-1	2	38
39	3				1.20				0.90		3/4	2#12+1#12G	LIGHTING	2	40
41	40	DOCK LIFT	3#8+1#10G	3/4	1.20				0.40		3/4	2#12+1#12G	LIGHTING	2	42
43	40				1.20				0.70		3/4	2#12+1#12G	LIGHTING	2	44
45	20	GAS BOOSTER PUMP	2#12+1#12G	3/4	0.20				1.80		3/4	2#12+1#12G	LIGHTING	2	46
47	3				2.60				0.50		3/4	2#12+1#12G	DH	2	48
49	3	ACN-C	3#8+1#10G	3/4	2.60				1.00		3/4	2#12+1#12G	LIGHTING	2	50
51	35				2.60				0.54		3/4	2#12+1#12G	CABINET HEATER	2	52
53	3				1.30				0.50		3/4	2#12+1#12G	SEV FIRE SHUTTER	2	54
55	20	ACN-D	3#10+1#10G	3/4	1.30				0.50		3/4	2#12+1#12G	SEV FIRE SHUTTER	2	56
57	20	SPARE			-				0.50		3/4	2#12+1#12G	EPO	2	58
59	20	SPARE			-				-		-	SPARE		2	60
61	20	SPARE			-				-		-	SPARE		2	62
63	20	SPARE			-				-		-	SPARE		2	64
65	20	SPARE			-				-		-	SPARE		2	66
67	20	SPARE			-				-		-	SPARE		2	68
69	20	SPARE			-				-		-	SPARE		2	70
71	20	SPARE			-				-		-	SPARE		2	72
73	20	SPARE			-				-		-	SPARE		2	74
75	20	SPARE			-				-		-	SPARE		2	76
77	20	SPARE			-				-		-	SPARE		2	78
79	20	SPARE			-				-		-	SPARE		2	80
81	20	SPARE			-				-		-	SPARE		2	82
83	20	SPARE			-				-		-	SPARE		2	84
SUBTOTALS		###		12.20		###		SUBTOTALS		6.04		6.88		5.84	
TOTAL LOADS		17.6 KVA		PHASE A		4.80 KVA		LIGHTING:		0.00 KVA		RECEPTACLE:		0.00 KVA	
		19.1 KVA		PHASE B		0.00 KVA		KITCHEN:		0.00 KVA		MOTOR:		31.24 KVA	
		18.1 KVA		PHASE C		0.00 KVA		POWER:		18.70 KVA					
TOTAL CONN. LOAD		54.7 KVA		152.0 A				TOTAL:		54.74 KVA					
TOTAL DEMAND LOAD		54.7 KVA		152.0 A											

NEW ELECTRICAL PANEL SCHEDULE															
PNL: SB-2		MOUNTING: SURFACE		MAIN LUGS ONLY		MAIN C BKR-		GROUND BUS: X							
208Y/120, 3 PHASE, 4 WIRE		(NEMA 1) FLUSH		DOUBLE LUGS		ISOLATED GROUND BUS:									
14 .000MIN A.I.C. SYM		IN MCC		FEED THRU LUG		MAIN BUS -		TVSS:							
NEUTRAL: 100%				SHUNT TRIP MAIN		225 A		NUMBER OF POLES: 18							
CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE	A	B	C	KVA / PHASE	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.	
1	20	RECEP	2#12+1#12G	3/4	0.40				0.70		3/4	2#12+1#12G	RECEP	2	2
3	2	2ND FL IDF	2#12+1#12G	3/4	0.20										

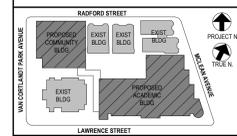


NEW COMMUNITY SCHOOL AT THE ST DENIS SITE
YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705

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NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001
CONSTRUCTION DOCUMENTS

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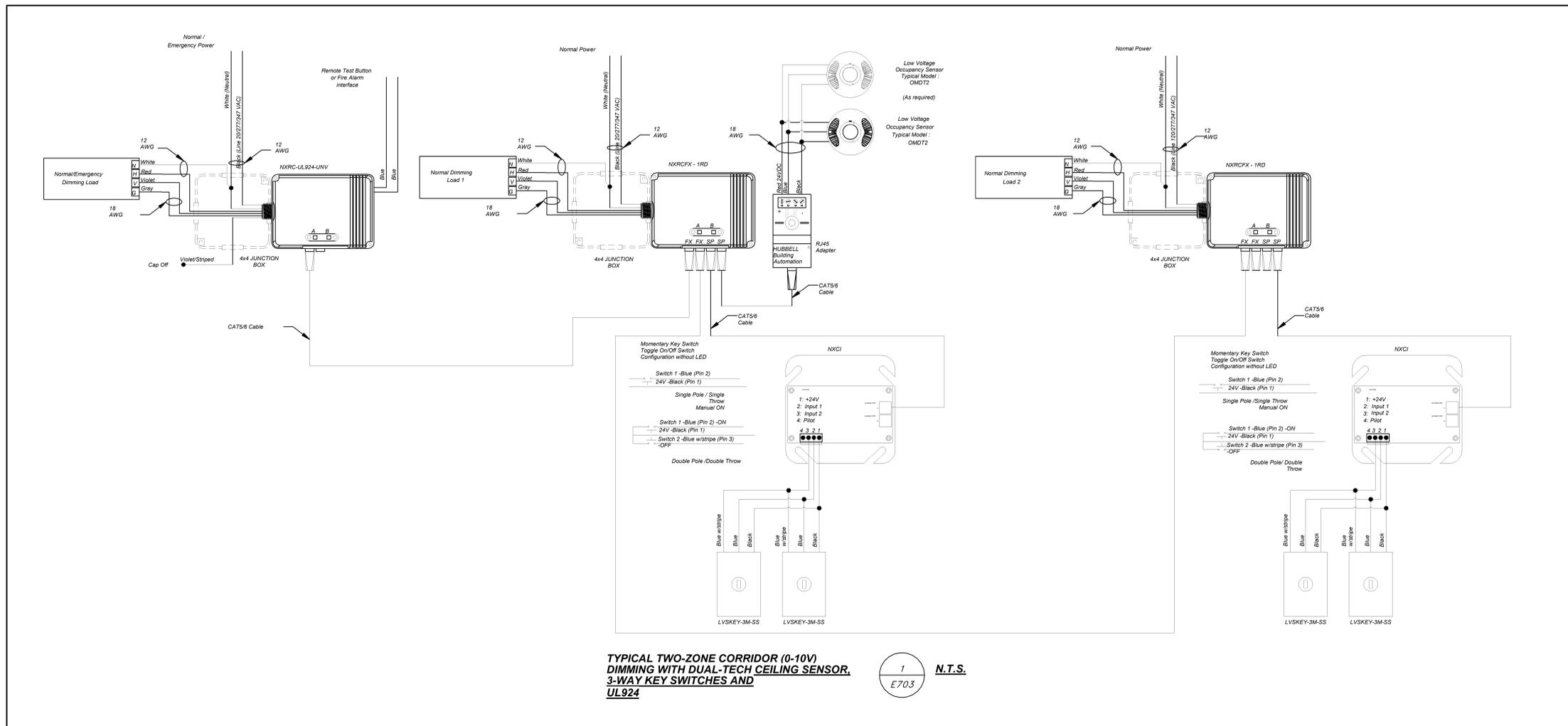
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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS/SED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

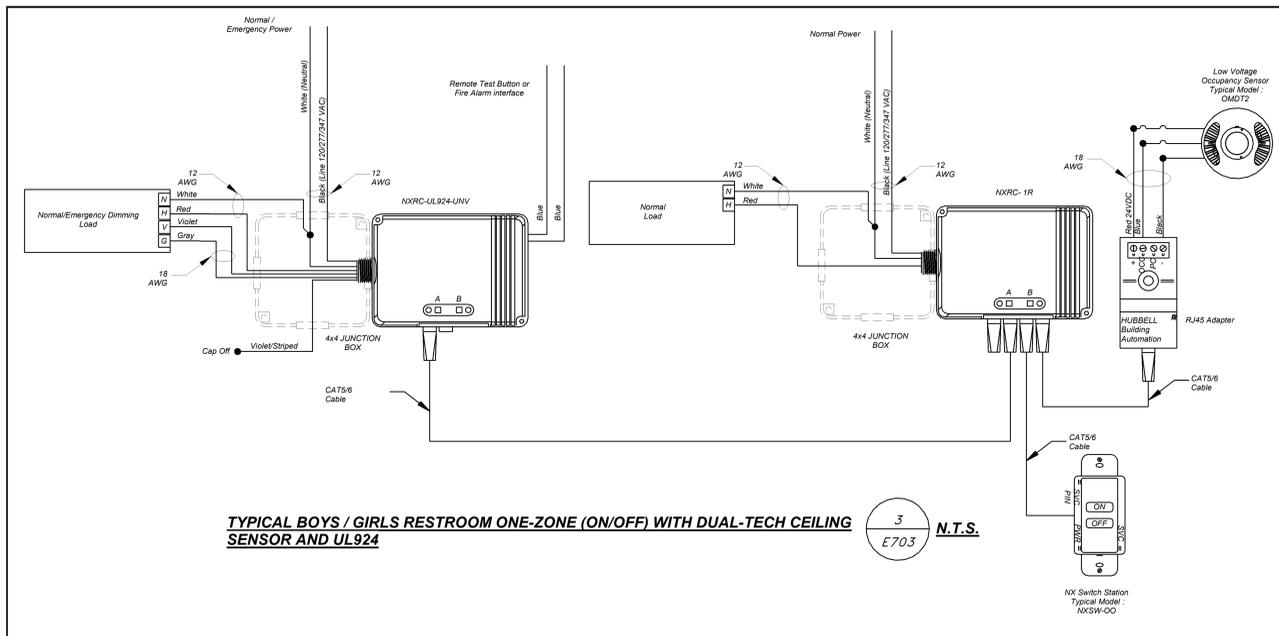
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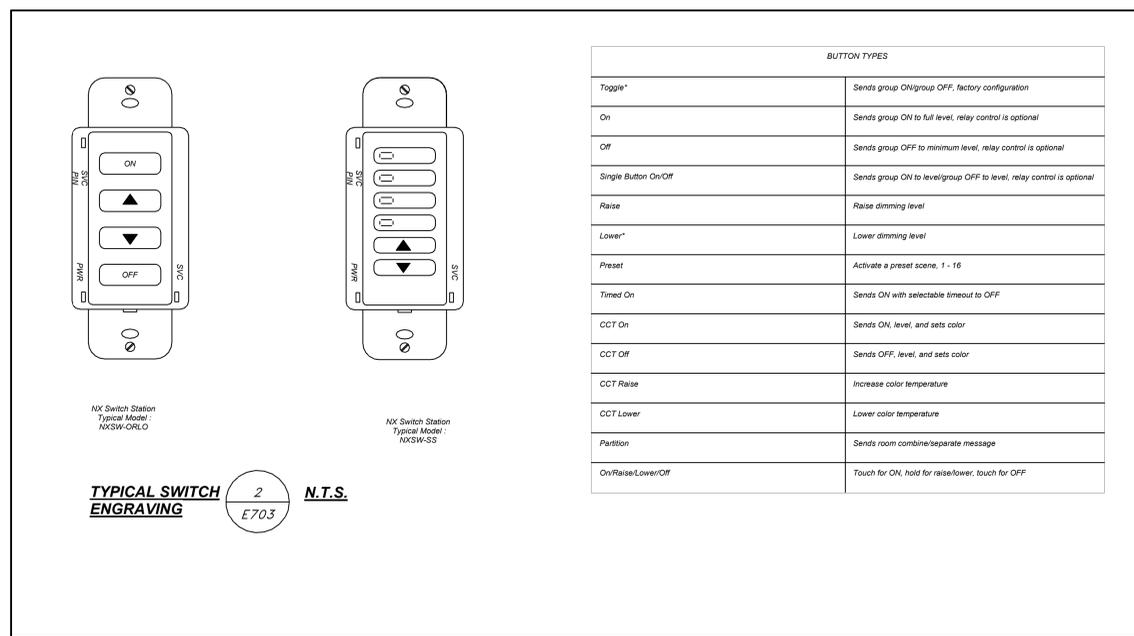
E701



TYPICAL TWO-ZONE CORRIDOR (0-10V) DIMMING WITH DUAL-TECH CEILING SENSOR, 3-WAY KEY SWITCHES AND UL924 1 N.T.S. E703



TYPICAL BOYS / GIRLS RESTROOM ONE-ZONE (ON/OFF) WITH DUAL-TECH CEILING SENSOR AND UL924 3 N.T.S. E703



TYPICAL SWITCH ENGRAVING 2 N.T.S. E703

4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYS&D
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No.	Date	Issue

ELECTRICAL DETAILS

Job No.	2019-1026	Date	05/17/21
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E703

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

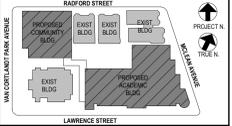
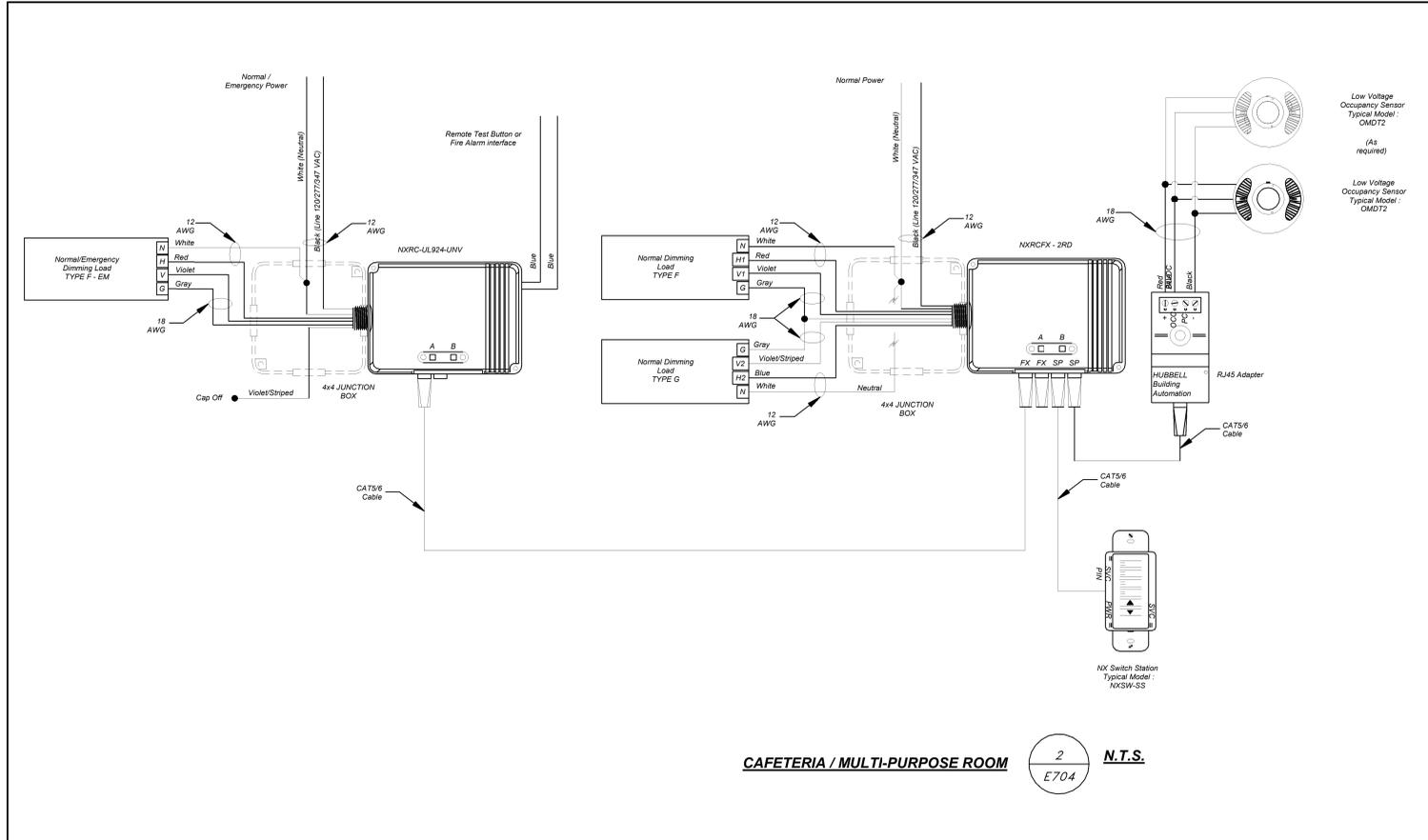
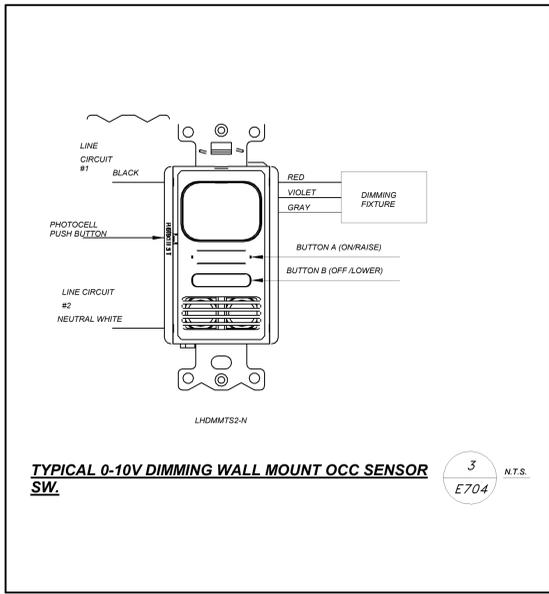
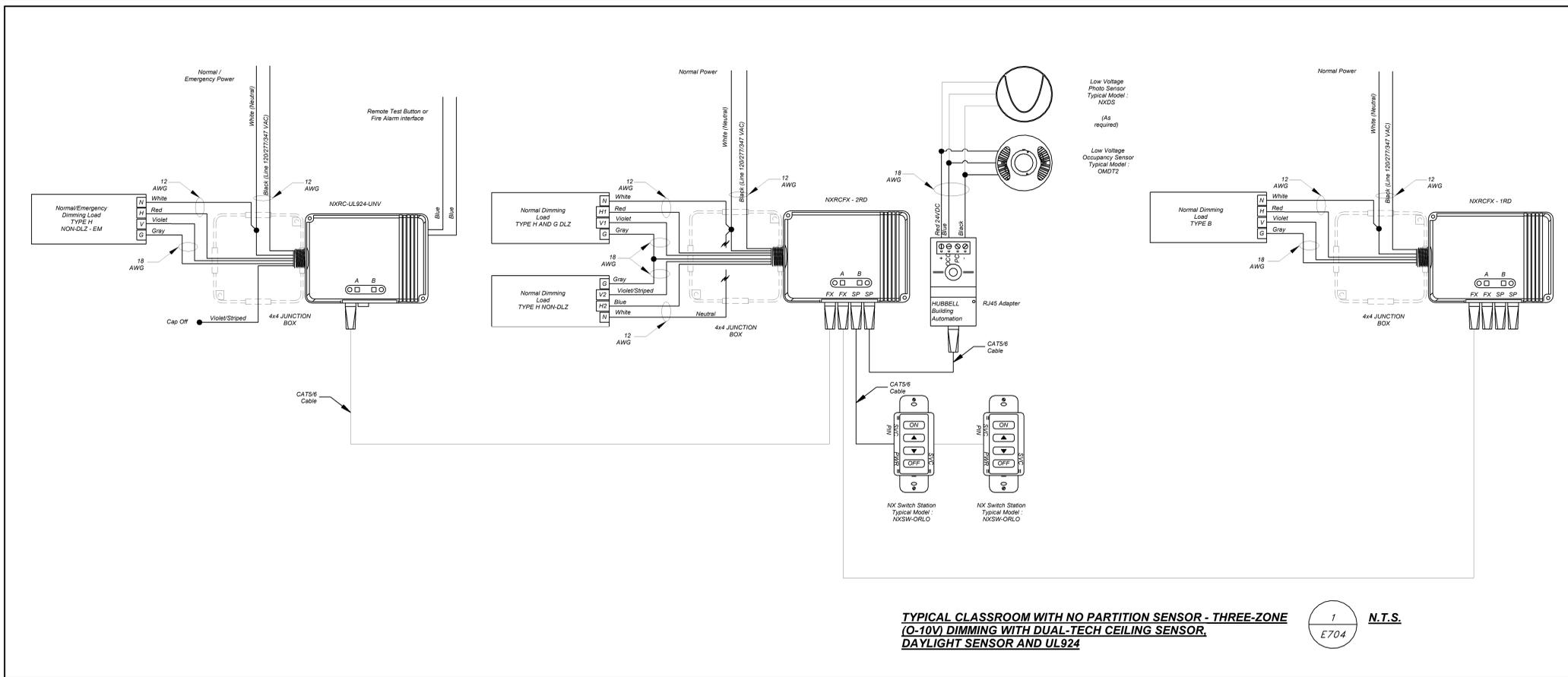
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NY SED PROJECT CONTROL NO.
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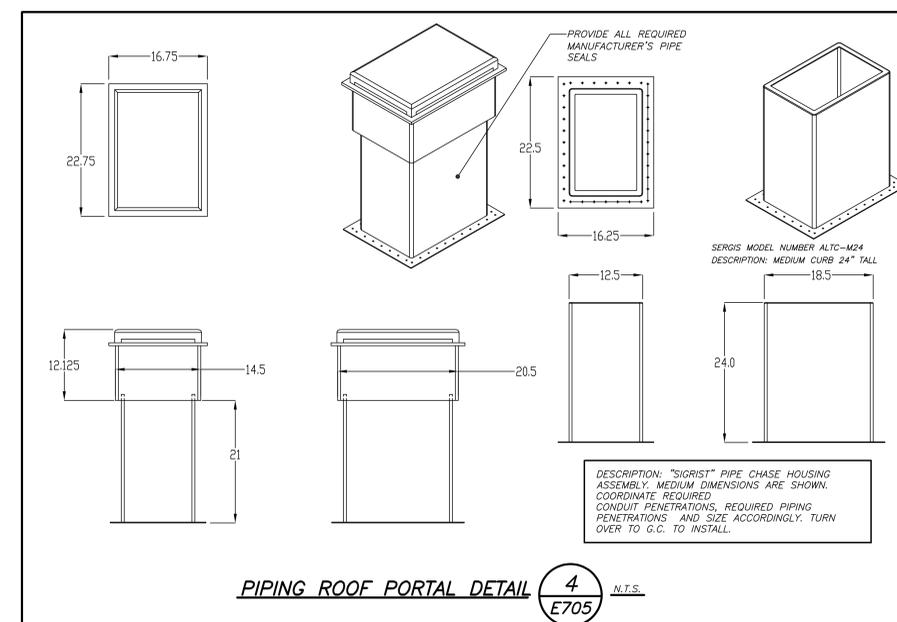
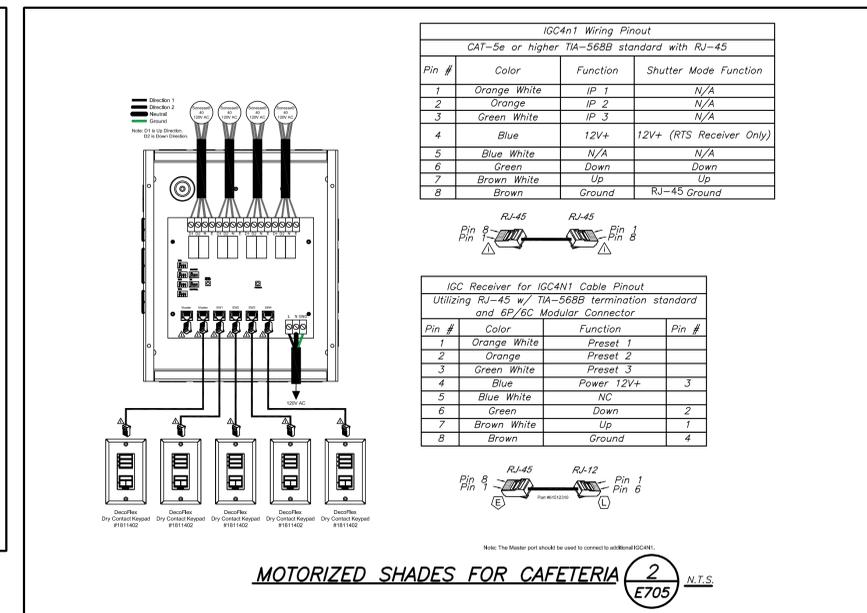
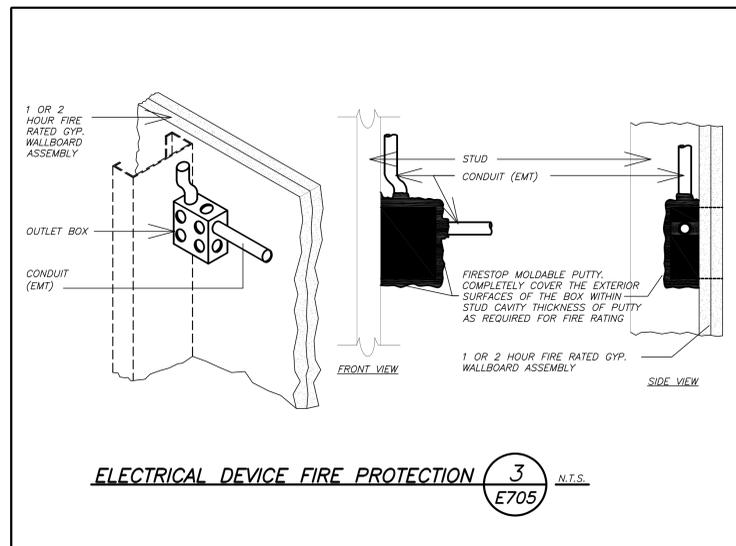
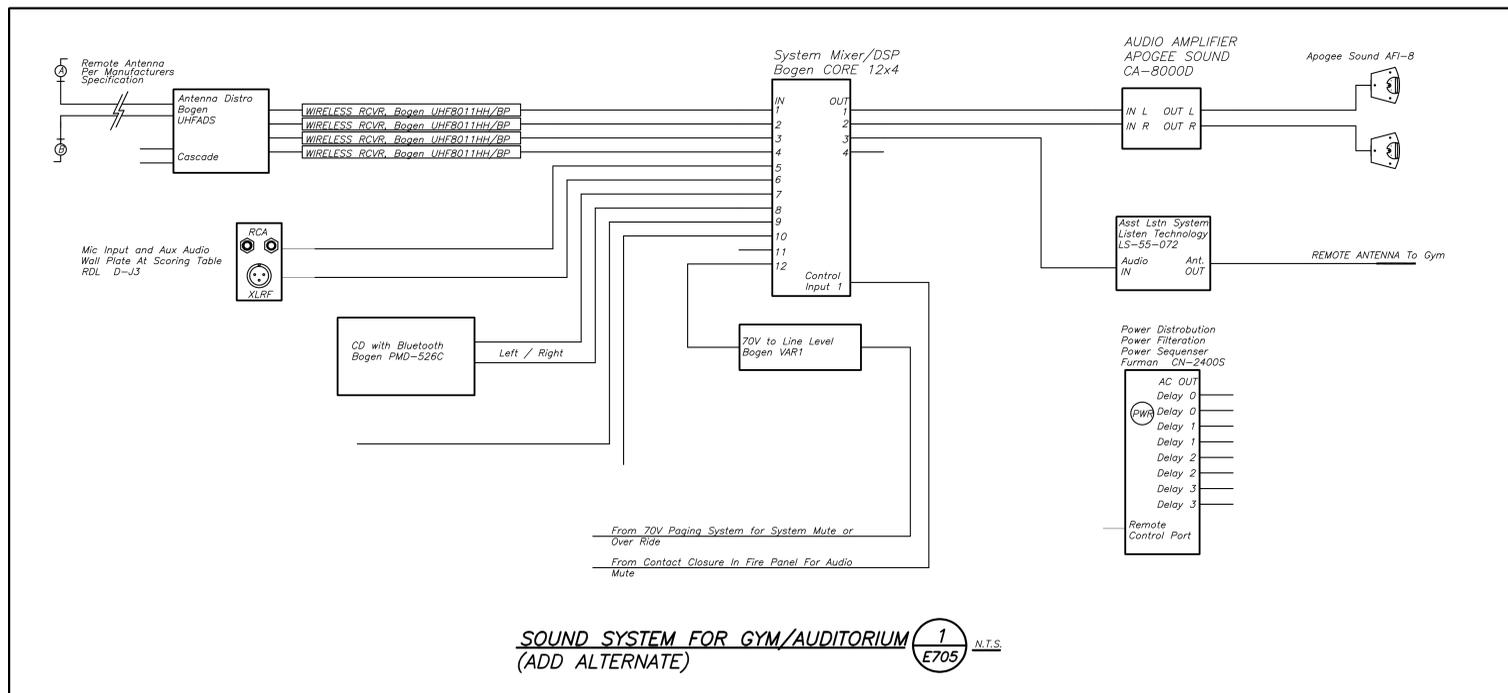
No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

ELECTRICAL DETAILS

Job No. 2019-1026 Date 05/17/21
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Sheet Number
E704

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS



NEW COMMUNITY SCHOOL AT THE ST DENIS SITE
 YONKERS JOINT SCHOOL CONSTRUCTION BOARD
 121 McLEAN AVENUE
 YONKERS, NY 10705

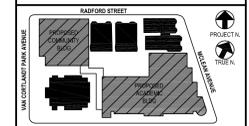
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NY SED PROJECT CONTROL NO.
 66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS

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No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

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Sheet Title _____

ELECTRICAL DETAILS

Job No. 2019-1026 Date 11/18/20
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E705

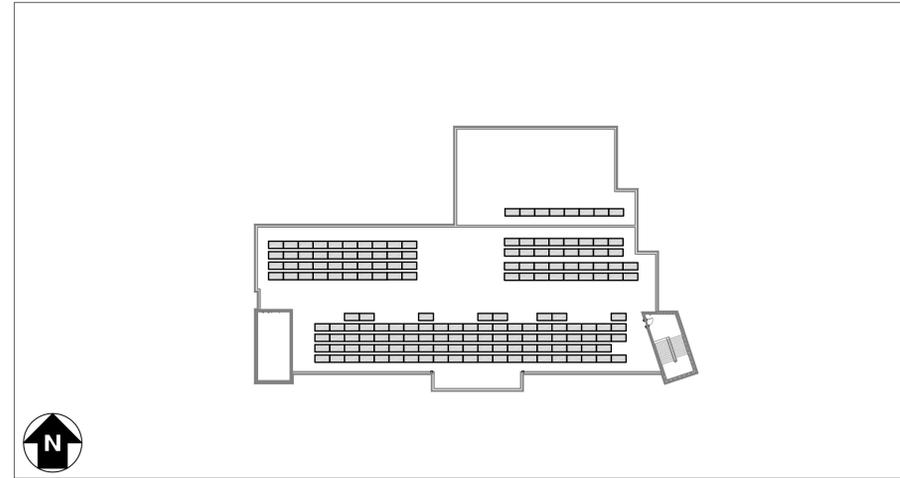
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76.12 KW SOLAR ROOFTOP SYSTEM AT ST. DENIS COMMUNITY SCHOOL

121 MCLEAN AVENUE, YONKERS, NEW YORK 10705



LOCATION MAP
SCALE: 1" = 1000'



SYSTEM PLAN
SCALE: 1" = 40'

TOTAL SYSTEM SUMMARY:

TOTAL DC SYSTEM SIZE: 76.12 kWDC
AC SYSTEM SIZE: 72.00 kWAC

MODULE MANUFACTURER: CANADIAN SOLAR
MODULE MODEL: CS3W-440MB-AG
MODULES PER STRING: 12, 13 & 14
MODULE QUANTITY: 173
STRING QUANTITY: 13

MODULE TILT: 10°
MODULE AZIMUTH: 153°

INVERTER MANUFACTURER: SOLAREEDGE
INVERTER MODEL: SE14.4KUS
INVERTER QUANTITY: 5

OPTIMIZER MODEL: SOLAREEDGE P505
OPTIMIZER QUANTITY: 188

SCOPE OF WORK SUMMARY

- ROOFTOP PV ARRAY:**
- INSTALL SOLAR MODULES AND ROOFTOP RACKING SYSTEM ON TOP OF EXISTING BUILDING.
 - INSTALL INVERTERS AND ELECTRICAL DISTRIBUTION EQUIPMENT.
 - INTERCONNECT AT NEW ELECTRICAL DISTRIBUTION EQUIPMENT.

DEVELOPER:



BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
39 MARBLE AVE PLEASANTVILLE, NY 10570
914.324.6060 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM

39 MARBLE AVENUE
PLEASANTVILLE, NY 10570

ENGINEERED BY:



111 RIVER STREET, SUITE 1110
HOBOKEN, NEW JERSEY, 07030

DRAWING INDEX

GENERAL									
PG001	TITLE SHEET	●	●						
PG200	ARRAY PLAN	●	●						
PG300	FIRE ACCESS PLAN	●	○						
ELECTRICAL									
PE001	ELECTRICAL NOTES & SYMBOL LIST	●	○						
PE100	AC ELECTRICAL PLAN	●	○						
PE200	DC ELECTRICAL PLAN	●	●						
PE300	ONE LINE DIAGRAM	●	○						
PE310	SCHEDULES & CALCULATIONS	●	●						
PE401	GROUNDING DETAILS	●	○						
PE402	ELECTRICAL DETAILS	●	○						
PE500	LABELS & SIGNAGE	●	○						
PE600	EQUIPMENT DATA SHEETS	●	○						

LEGEND:

UPDATED DRAWING ISSUED	●
UNCHANGED, PREVIOUSLY ISSUED DRAWING STILL CURRENT	○
DRAWING REMOVED FROM SET	×

07/14/2021	SED SUBMISSION
10/08/2021	SED SUBMISSION REV1

PROJECT: 76.12 KW SOLAR ROOFTOP SYSTEM AT ST. DENIS COMMUNITY SCHOOL
121 MCCLEAN AVE
YONKERS, NY 10705

DC SYSTEM SIZE: 76.12 KW
AC SYSTEM SIZE: 72.00 KW
MODULE TYPE: CS3W-440MB-AG
MODULE QUANTITY: 173
STRING QUANTITY: 13
GENERATION: 1.0

DEVELOPER: BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS

ENGINEER: BARILE GALLAGHER & ASSOCIATES
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REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW YORK
LICENSE NO. 13000

PUREPOWER ENGINEERING
111 RIVER STREET, SUITE 1110
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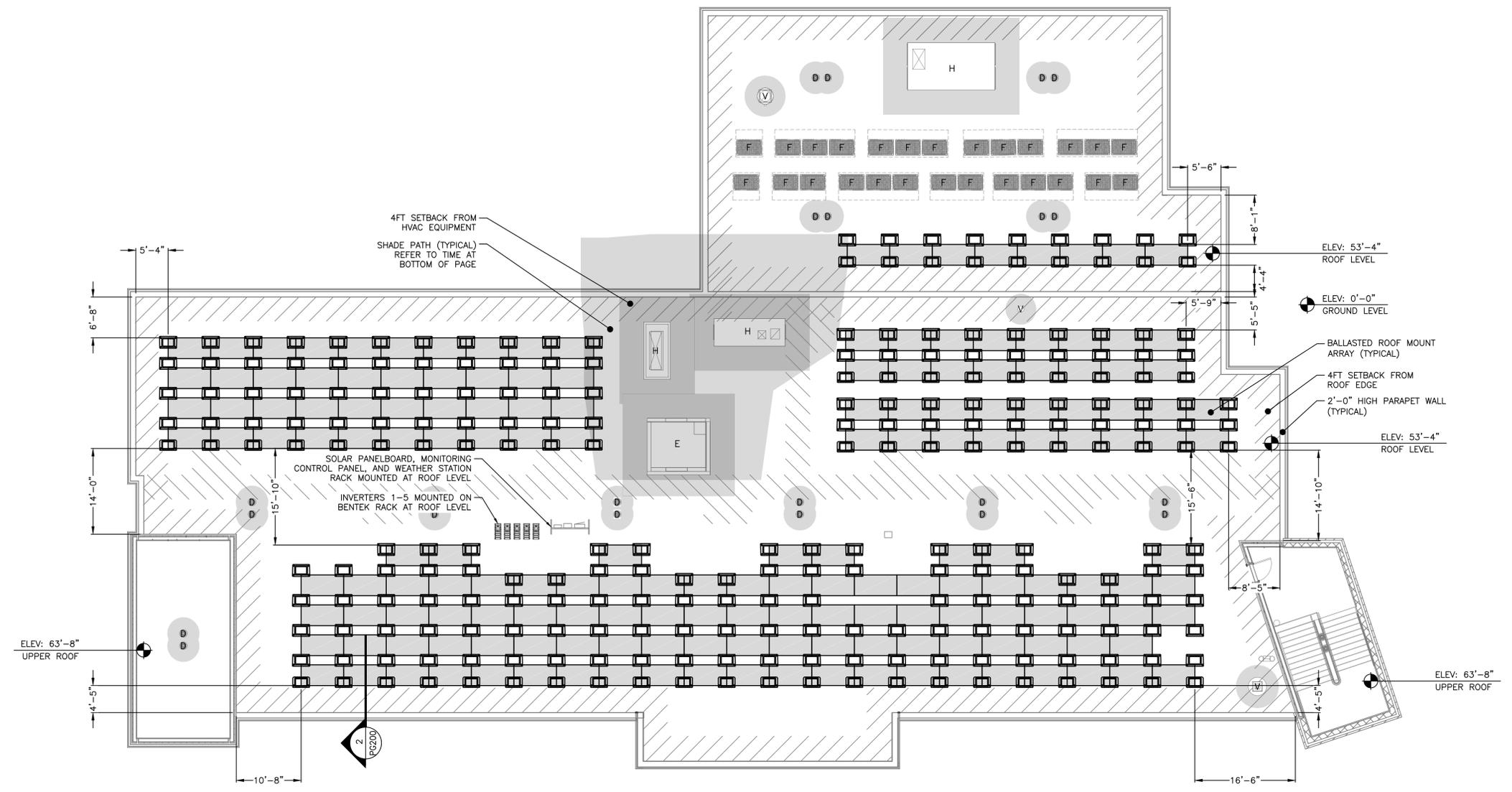
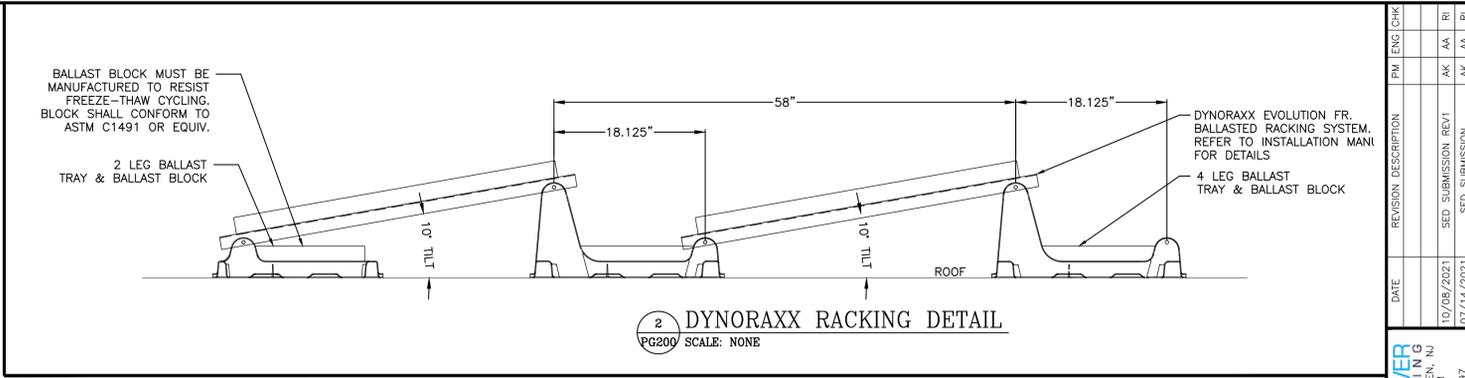
DATE	REVISION DESCRIPTION	PM	ENG	CHK
07/14/2021	SED SUBMISSION	AK	AA	RI
10/08/2021	SED SUBMISSION REV1	AK	AA	RI

PAGE SIZE: 36" x 24"
PROJECT #: 01541

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
PLOT DATE: 10/08/2021 4:44 PM

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 10/09/2021 4:44 PM



IMPORTANT:
DO NOT STEP OR KNEEL
ON PV MODULES

1 OVERALL ARRAY PLAN
PG200 SCALE: 1" = 10'-0"



SHADING ZONES:
WINTER: 10:00-2:00
SPRING: 9:00-3:00
SUMMER: 8:00-4:00

LEGEND (EXISTING ITEMS):
A ACCESS
D DRAIN
F FAN
H HVAC
V VENT

NOTE: ELEVATIONS ARE APPROXIMATE AND SHOWN TO LOCAL GRADE. ADJUSTED VALUES MAY BE APPROPRIATE FOR STRUCTURAL ANALYSIS.

NOTE: DIMENSIONS ARE APPROXIMATE AND SHOWN TO RACKING RAILS.

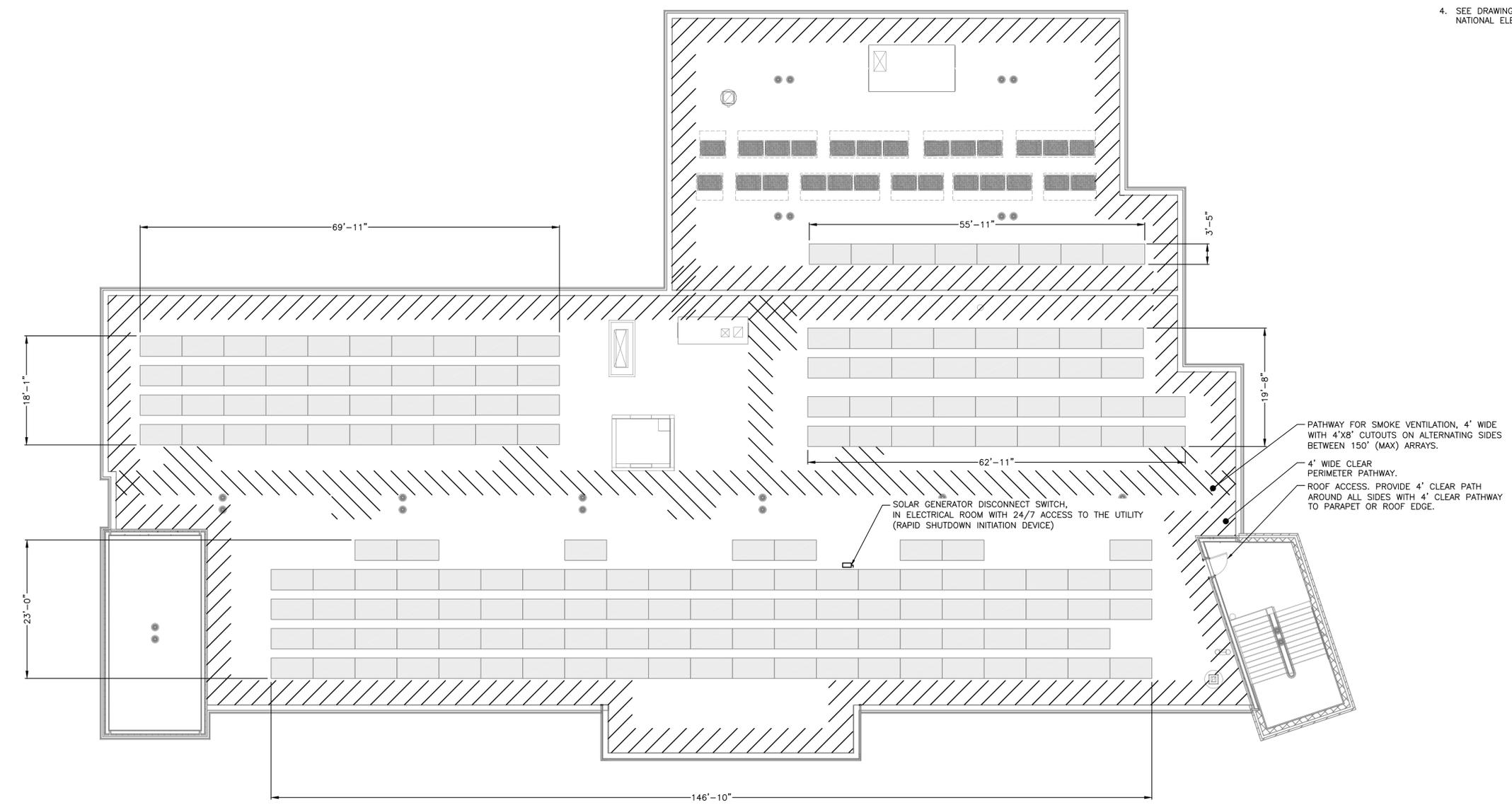
DRAWING TITLE	DRAWING #
OVERALL ARRAY PLAN	PG200

PROJECT	76.12 KW SOLAR ROOFTOP SYSTEM AT ST. DENIS COMMUNITY SCHOOL 121 MCCLEAN AVE YONKERS, NY 10705
DC SYSTEM SIZE:	76.12 kW
AC SYSTEM SIZE:	72.00 kW
MODULE TYPE:	CS3W-440MB-AG
MODULE QUANTITY:	173
STRING QUANTITY:	13
ORIENTATION:	19° TILT, 153° AZIMUTH
DEVELOPER	BARILE GALLAGHER & ASSOCIATES 111 RIVER STREET, FURKLEN, NY WWW.PUREPOWER.COM
ENGINEER	BARILE GALLAGHER & ASSOCIATES 111 RIVER STREET, FURKLEN, NY WWW.PUREPOWER.COM
DATE	10/09/2021
REVISION DESCRIPTION	PM LENG CHK
DATE	10/09/2021
REVISION DESCRIPTION	AK AA RI
DATE	07/14/2021
REVISION DESCRIPTION	AK AA RI

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

FLAT ROOF FIRE CODE REFERENCES

REQUIREMENT	IFC 2015	IFC 2018	NFPA 1 2012 / 2015	NFPA 1 2018
4' CLEAR PERIMETER (≤250')	605.11.3.1 EXCPT	1204.3.1 EXCPT	11.12.2.2.3.1	11.12.2.2.3.1
6' CLEAR PERIMETER (>250')	605.11.3.1	1204.3.1	11.12.2.2.3.1	11.12.2.2.3.1
ROOF ACCESS HATCH:				
4' AROUND ALL SIDES & 4' PATH TO ROOF EDGE	605.11.1.3.2(4)	1204.3.2(3)	11.12.2.2.3.2(5)	11.12.2.2.3.2(2)
ARRAYS 150' MAX (BETWEEN PATHS)	605.11.1.3.3(1)	1204.3.2(1)	11.12.2.2.3.3.1	11.12.2.2.3.2(3)
8' PATHS	605.11.3.3(2)(2.1)	1204.3.3(2)(2.1)	11.12.2.2.3.3.2(1)	11.12.2.2.3.3(1)
4' PATH WITH 4X8 CUTOUTS EVERY 20' ON ALT. SIDES	605.11.3.3(2)(2.4)	1204.3.3(2)(2.3)	11.12.2.2.3.3.2(3)	11.12.2.2.3.3(3)
SMOKE VENTS - NON-GRAVITY (MECHANICAL):				
4' STRAIGHT PATH TO & 4' AROUND	605.11.1.3.3(2)(2.3)	1204.3.3(1)	11.12.2.2.3.3.2(2)	11.12.2.2.3.3
SMOKE VENTS - GRAVITY (DROPOUT) & SKYLIGHTS: 4' STRAIGHT PATH TO ONE SIDE	605.11.1.3.3(2)(2.2)	1204.3.3(2)(2.2)	11.12.2.2.3.3.2(2)	11.12.2.2.3.3(2)
ROOF STANDPIPES:				
4' STRAIGHT LINE PATH TO ONE SIDE	605.11.1.3.2(3)	1204.3.2(2)	11.12.2.2.3.2(4)	11.12.2.2.3.2(1)
"CENTERLINE" ACCESS	605.11.1.3.2(2)	REMOVED	11.12.2.2.3.2(2&3)	REMOVED



- NFPA 1 REQUIRED LABELS:**
- MAIN SERVICE DISCONNECT** - THE LABEL "WARNING: PHOTOVOLTAIC POWER SOURCE" SHALL BE PERMANENTLY AFFIXED TO THE MAIN SERVICE DISCONNECT. LABEL SHALL BE RED WITH WHITE CAPITAL LETTERS AT LEAST 3/4" HIGH IN NONSERIF FONT. MATERIAL SHALL BE REFLECTIVE, WEATHER RESISTANT, AND SUITABLE FOR THE ENVIRONMENT. (NFPA 1: 11.12.2.1.1)
 - INVERTER DISCONNECTS** - THE LABEL "PHOTOVOLTAIC DISCONNECT" SHALL BE AFFIXED TO EACH CIRCUIT BREAKER PANEL SERVING THE INVERTERS. LABEL SHALL BE CONTRASTING COLOR WITH CAPITAL LETTERS AT LEAST 3/8" HIGH IN NONSERIF FONT. THE LABEL SHALL BE CONSTRUCTED OF DURABLE ADHESIVE MATERIAL OR OTHER APPROVED MATERIAL. (NFPA 1: 11.12.2.1.2)
 - SOLAR RACEWAYS** - THE LABEL "PHOTOVOLTAIC POWER SOURCE" SHALL BE RED WITH WHITE CAPITAL LETTERS AT LEAST 3/8" HIGH IN NONSERIF FONT. LABELS SHALL BE PERMANENTLY AFFIXED ON ALL EXPOSED RACEWAYS, CABLE TRAYS, PULL BOXES, AND JUNCTION BOXES. LABELS SHALL BE SPACED NO GREATER THAN 10 FEET APART. MATERIAL SHALL BE REFLECTIVE, WEATHER RESISTANT, AND SUITABLE FOR THE ENVIRONMENT. (NFPA 1: 11.12.2.1.3)
 - SEE DRAWING E500 FOR ADDITIONAL LABELS REQUIRED BY THE NATIONAL ELECTRICAL CODE.

1 FIRE ACCESS PLAN - ROOF
 PG300 SCALE: 1" = 10'-0"



DRAWING TITLE	DRAWING #
FIRE ACCESS PLAN	PG300

PROJECT: 76.12 KW SOLAR ROOFTOP SYSTEM AT ST. DENIS COMMUNITY SCHOOL
 121 MCCLEAN AVE YONKERS, NY 10705
 DC SYSTEM SIZE: 76.12 kW AC SYSTEM SIZE: 72.00 kW MODULE TYPE: CS3W-440MB-AG MODULE QUANTITY: 173 STRING QUANTITY: 13 GENERATION: 19 TILT: 15.3 AZIMUTH: 015-41
 DEVELOPER: BARILE GALLAGHER & ASSOCIATES, INC. 300 WEST 10TH STREET, PLEASANTVILLE, NY 10570
 LICENSED PROFESSIONAL ENGINEER
 PUREPOWER G INC. 111 RIVER STREET, ELIZENY, NY 10570
 WWW.PUREPOWER.COM RICHARD A. JINIS NY LICENSE NO. 051197
 DATE: 07/14/2021
 REVISION DESCRIPTION: PM LENG CHK
 AK AK RI
 SED SUBMISSION

ELECTRICAL NOTES

1. GENERAL

- 1.A. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) TO APPLICABLE UL STANDARDS. THE CONTRACTOR SHALL PROCURE ALL NECESSARY CERTIFICATIONS FOR ALL WORK INSTALLED, PAY ALL FEES AND CHARGES CONNECTED THEREWITH AND DELIVER ALL CERTIFICATES AND INSPECTION APPROVALS TO THE OWNER THROUGH THE ENGINEER, BEFORE WORK WILL BE FINALLY ACCEPTED.
- 1.B. ALL INVERTERS SHALL BE IEEE 1547 COMPLIANT AND SHALL BE INSPECTED BY LOCAL UTILITY BEFORE COMMISSIONING, TESTING AND OPERATION OF THE SYSTEM.
- 1.C. UNLESS OTHERWISE NOTED, NEW EQUIPMENT SHALL HAVE AN INTERRUPT RATING (KAIC) OR SHORT CIRCUIT CURRENT RATING (SCCR) GREATER THAN OR EQUAL TO THE EXISTING EQUIPMENT.

2. MANNER OF INSTALLATION

- 2.A. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. ALL DETAILS OF THE INSTALLATION SHALL BE MECHANICALLY AND ELECTRICALLY CORRECT.
- 2.B. TORQUE AND MARK ALL RACKING AND MECHANICAL LUGS.

3. CONDUCTORS AND CONDUCTOR INSTALLATION

- 3.A. WHERE POSSIBLE, ALUMINUM CABLE TERMINATIONS SHALL BE MADE WITH COMPRESSION LUGS OR MECHANICAL LUGS WITH COMPRESSION PIN ADAPTORS. REQUEST CLIENT APPROVAL FOR ALTERNATIVES.
- 3.B. IF ALUMINUM MC CABLE IS USED, THHN/THWN-2 INSULATION IS ACCEPTABLE. FOR ALUMINUM CONDUCTORS, XHHW-2 SHALL BE USED. ANTI-OXIDANT COMPOUND SHALL BE USED WITH ALL ALUMINUM LUGS. CLEAN OXIDATION FROM WIRE STRANDS WITH STEEL WIRE BRUSH PRIOR TO APPLICATION OF COMPOUND.
- 3.D. PV SYSTEM CONDUCTORS SHALL BE MARKED AND IDENTIFIED PER NEC 690.31(B).
- 3.E. INSTALL WIRE AND CABLE IN ACCORDANCE WITH THE NEC AND AS HEREINAFTER SPECIFIED. USE THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION'S "STANDARD OF INSTALLATION", THE MANUFACTURER'S WRITTEN INSTRUCTIONS, UNLESS SUPERSEDED BY THESE SPECIFICATIONS. IN ALL CASES THE INSTALLATION SHALL BE IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES.
- 3.F. THE USE OF WIRE SPLICES AT ANY POINT IN THE INSTALLATION IS STRICTLY PROHIBITED.
- 3.G. THE USE OF WIRE LUBE IS REQUIRED FOR ALL WIRE PULLS THROUGH CONDUIT RUNS OF 20' OR LONGER, OR WITH BENDS IN 180' OR MORE. WIRE LUBE IS REQUIRED EVEN WHEN USING SELF LUBRICATING CABLES SUCH AS SOUTHWIRE 'SIMPULL'.
- 3.H. STRING WIRING & HOMERUNS SHALL BE SECURED TO UNDERSIDE OF THE RACKING & MODULES USING SUNBUNDLERS OR ZIP TIES OUTDOOR RATED FOR UV (HELLERMAN TYTON PA66UV OR EQUAL), TRANSITION TO EMT OUTSIDE OF ARRAY. NEGATIVE HOMERUN SHALL BE RUN PARALLEL TO POSITIVE HOMERUN.
- 3.I. ALL PV SOURCE CIRCUITS WHICH WOULD BE EXPOSED TO PHYSICAL DAMAGE SHALL BE PROTECTED IN CONDUIT OR CABLE TRAY.
- 3.J. ALL PV SOURCE CIRCUITS WITH DIRECT EXPOSURE TO SUNLIGHT SHALL BE PROTECTED THROUGH THE USE OF CONDUIT, PROTECTIVE WRAP, SPLIT LOOM, OR EQUIVALENT, WHICH ARE DURABLE FOR THE ENVIRONMENT AND RATED FOR THE APPLICATION.
- 3.K. ALL PLUG AND SOCKET CONNECTORS MATED TOGETHER SHALL BE OF THE SAME TYPE AND OF THE SAME MANUFACTURER. "COMPATIBLE" CONNECTORS SHALL NOT BE ACCEPTED (IEC 62446-1).
- 3.L. ALL FIELD-MADE PLUG & SOCKET CONNECTORS SHALL BE INSTALLED USING MANUFACTURER APPROVED TOOLS AND METHODS, AND CABLE GLANDS SHALL BE TIGHTENED TO MANUFACTURER'S SPECIFIED TORQUE VALUE.

4. PHASE RELATIONSHIP

- 4.A. CONNECT FEEDERS TO MAINTAIN PHASE RELATIONSHIP THROUGH SYSTEM. PHASE LEGS OF FEEDERS SHALL MATCH BUS OR CABLE ARRANGEMENTS IN EQUIPMENT TO WHICH THE FEEDERS ARE CONNECTED. COLOR CODING SHALL BE AS FOLLOWS:

208/120 VAC
A PHASE: BLACK, B PHASE: RED, C PHASE: BLUE

277/480 VAC OR 346/600 VAC
A PHASE: BROWN, B PHASE: ORANGE, C PHASE: YELLOW

1500 VDC, 1000 VDC, OR 600 VDC
UNGROUND POSITIVE CONDUCTOR: RED
UNGROUND NEGATIVE CONDUCTOR: BLACK

AC AND DC SYSTEMS:
GROUNDED CONDUCTOR: WHITE
GROUND: GREEN

- 4.B. GROUNDED CONDUCTORS (NEUTRAL) AND EQUIPMENT GROUNDING CONDUCTORS SMALLER THAN #4 MUST HAVE COLOR CODED INSULATION. WHERE COLOR CODED CABLE IS NOT USED, TAPE CONDUCTOR WITH OVERLAPPED COLORED TAPE FOR A MINIMUM OF 6" IN ACCESSIBLE LOCATIONS. COLOR CODING MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.

5. CONDUITS AND RACEWAYS

- 5.A. PROVIDE RACEWAYS MINIMUM SIZE 3/4".
- 5.B. CONDUITS SHALL BE EMT WHERE NOT SUBJECT TO PHYSICAL DAMAGE. CONDUITS SHALL BE IMC OR RMC WHERE SUBJECT TO PHYSICAL DAMAGE. PVC CONDUITS ONLY PERMITTED IN BELOW GRADE DUCT BANKS.
- 5.C. DRAWINGS SHOW RACEWAY LOCATIONS DIAGRAMMATICALLY. CONTRACTOR SHALL ADJUST ROUTING TO SUIT FIELD LOCATIONS. ANY CHANGES TO PROPOSED ROUTING SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL.
- 5.D. FURNISH AND INSTALL ALL FITTINGS AND SPECIAL DEVICES NECESSARY FOR THE PROPER INSTALLATION, CONNECTION AND OPERATION OF THE SYSTEM. CONDUIT ELBOWS SHALL BE OF THE SAME MAKE, QUALITY AND FINISH AS THE CONDUIT USED.
- 5.E. A PROTECTIVE COATING OF ASPHALT COMPOUND, PLASTIC SHEATH, OR

- OTHER EQUIVALENT PROTECTION SHALL BE APPLIED TO ANY GALVANIZED STEEL CONDUITS DIRECTLY BURIED IN EARTH.
- 5.F. EMT CONDUIT SHALL USE COMPRESSION RAIN-TIGHT CONNECTORS, FACTORY STAMPED RAIN-TIGHT WITH COMPONENTS PROPERLY INSTALLED.
- 5.G. PROVIDE EXPANSION FITTINGS WITH BONDING JUMPERS FOR EVERY 100' OF STRAIGHT METAL CONDUIT RUN.
- 5.H. CONDUIT EXPANSION AND DEFLECTION FITTINGS WITH BONDING JUMPERS SHALL BE USED WHENEVER CROSSING BUILDING EXPANSION AND SEISMIC SEPARATION JOINTS.
- 5.I. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. ALL EMPTY CONDUITS OVER 10' IN LENGTH SHALL BE PROVIDED WITH SYNTHETIC FIBER ROPE PULL WIRE.
- 5.J. PATCH AND REPAIR ALL SURFACES DAMAGED BY TRENCHING TO MATCH THE PREVIOUSLY EXISTING CONDITIONS.
- 5.K. 15" WIDE OR LESS BUCKET TO BE USED FOR TRENCHING.
- 5.L. ALL PENETRATIONS SHALL BE SEALED TO MAINTAIN THE EXISTING FIRE RATING.
- 5.M. ALL ROOFTOP CONDUITS SHALL BE MARKED PER LOCAL FIRE CODES.
- 5.N. ALL CONDUITS ENTERING ENCLOSURES SHALL BE FITTED WITH PROTECTIVE BUSHINGS, INCLUDING CONDUIT WITH CONDUCTOR SIZES SMALLER THAN #4 AWG. METALLIC CONDUIT/BUSHINGS SHALL BE BONDED PER NEC.
- 5.O. ALL CONDUIT ENTERING ENCLOSURES SHALL BE SEALED WITH AN APPROVED SEALANT.

6. ELECTRICAL ENCLOSURES

- 6.A. ALL OUTDOOR ENCLOSURES (PANELBOARDS, DISCONNECT SWITCHES, JUNCTION BOXES, COMBINER BOXES, ETC.) SHALL BE NEMA 3R, 4, OR 4X. INDOOR ENCLOSURES SHALL BE NEMA 1.
- 6.B. PANELBOARD DOORS SHALL BE QUARTER TURN LATCHES OR EXTERNAL HANDLE WITH INTERNAL LATCHES, NO SETS OF EXTERNAL SCREW DOWN CLAMPS.
- 6.C. CONDUIT TERMINATING IN OUTDOOR ENCLOSURES SHALL USE MYERS-TYPE HUBS WITH GROUND SCREW. UTILIZE RAIN-TIGHT FITTINGS FOR ALL CABLE ENTRIES.
- 6.D. NO PENETRATIONS OR CABLE ENTRIES IN THE TOP OF OUTDOOR ENCLOSURES. ENTER OUTDOOR ENCLOSURES FROM THE BOTTOM (PREFERRED) OR SIDE.
- 6.E. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED OR LABELED BY A RECOGNIZED TESTING AGENCY.
- 6.F. ARC FLASH HAZARD WARNING LABELS SHALL BE PROVIDED AND MOUNTED ON EVERY COMBINER BOX, TERMINAL BOX, INVERTER, AC AND DC SWITCH, TRANSFORMER, AND SWITCHGEAR.
- 6.G. HAND HOLES, PULL BOXES, OR CONDUIT BODIES SHALL BE INSTALLED (WHETHER OR NOT SHOWN ON DRAWINGS) WHEN THE RACEWAY HAS MORE THAN 360° OF BENDS, OR AS NECESSARY TO NOT EXCEED MANUFACTURER'S MAXIMUM CABLE PULLING TENSION.

7. GROUNDING

- 7.A. THE CONTRACTOR SHALL FURNISH AND INSTALL GROUNDING NECESSARY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

8. TESTS

- 8.A. FINAL TESTS AND INSPECTION SHALL BE HELD IN THE PRESENCE OF OWNER'S REPRESENTATIVES AND TO THEIR SATISFACTION.
- 8.B. MEGGER TEST ALL DC STRING WIRING, DC COMBINER BOX OUTPUT FEEDERS, AND AC FEEDERS. SUBMIT RESULTS TO OWNER FOR REVIEW.
- 8.C. HI-POT TEST ALL MEDIUM VOLTAGE FEEDERS IN ACCORDANCE WITH CABLE MANUFACTURER INSTRUCTIONS.
- 8.D. IV CURVE TRACES OF STRINGS SHALL BE GENERATED USING THE SOLMETRIC PV ANALYZER (OR EQUIVALENT DEVICE) AND SUBMITTED TO OWNER FOR APPROVAL.
- 8.E. OPEN-CIRCUIT VOLTAGE (V_{oc}) MEASUREMENTS OF ALL DC STRING CONDUCTORS.
- 8.F. GROUND FAULT PROTECTION SYSTEMS SHALL BE FUNCTIONAL TESTED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS (NEC 230.95(C)).
- 8.G. MEDIUM VOLTAGE EQUIPMENT SHALL BE TESTED IN ACCORDANCE WITH NEC 230.95 AND PER MANUFACTURER INSTRUCTIONS.

GENERAL NOTES

1. THE GENERAL NOTES APPLY TO ALL DRAWINGS UNDER THE CONTRACT. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.
2. DRAWINGS ARE DIAGRAMS AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT OF WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM, SPACE CONDITIONS, AND REQUIRED CLEARANCES.
3. PV SYSTEM CONTRACTOR SHALL COORDINATE ALL THE WORK WITH THE ENGINEER, THE CONSTRUCTION MANAGER AND ALL OTHER CONTRACTORS TO INSURE THAT THE PV SYSTEM IS INSTALLED AS SPECIFIED IN THESE DRAWINGS.
4. PERSONAL PROTECTIVE EQUIPMENT (PPE) SHALL BE PROVIDED AS REQUIRED IN ACCORDANCE WITH NEC 70E AND OSHA REQUIREMENTS.
5. UNFORSEEN OBSTRUCTIONS ON THE SITE MAY NECESSITATE A CHANGE IN THE LAYOUT. ANY CHANGES TO THE RACKING LAYOUT SHOULD BE REPORTED TO THE ENGINEER. CHANGES IN UP TO 5% OF THE MODULES SHOULD BE ANTICIPATED. CHANGES TO THE ARRAY LAYOUT SHOULD BE MADE AS TO NOT IMPACT THE NUMBER OF MODULES ON A COMBINER BOX OR INVERTER.
6. LANDSCAPING: RESTORE TO ORIGINAL CONDITIONS.
7. ALL STRUCTURAL AND MISCELLANEOUS EXTERIOR STEEL, INCLUDING STRUT CHANNEL (SUCH AS UNISTUT OR KINDORF) SHALL BE CORROSION RESISTANT, HOT DIP GALVANIZED OR GALVANNEALED WITH A COATED FINISH MINIMUM.

LEGEND - GENERAL

- LIGHT LINE INDICATES EXISTING OR BEYOND THE SCOPE OF PROJECT
- DARK LINE INDICATES NEW OR WITHIN THE SCOPE OF PROJECT
- DASHED LINE INDICATES EQUIPMENT AT A DIFFERENT ELEVATION
- EXISTING TEXT LIGHT TEXT INDICATES EXISTING OR BEYOND THE SCOPE OF PROJECT
- NEW TEXT DARK TEXT INDICATES NEW OR WITHIN THE SCOPE OF PROJECT

LEGEND - PLAN SYMBOLS

- SOLAR MODULE
- RACEWAY TURNING UP OR TOWARDS OBSERVER
- RACEWAY TURNING DOWN OR AWAY FROM OBSERVER
- CABLE TRAY
- PULLBOX
- JUNCTION BOX
- PANEL BOARD
- LOCAL DISCONNECT SWITCH
- SIMPLEX RECEPTACLE, RATED: 125-VOLTS AC, 20A
- DUPLEX RECEPTACLE, RATED: 125-VOLTS AC, 20A
- WEATHERPROOF DUPLEX RECEPTACLE, RATED: 125-VOLTS AC, 20A
- GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, RATED: 125-VOLTS AC, 20A
- DOUBLE DUPLEX (QUAD) RECEPTACLE
- CEILING/PENDANT-MOUNT LIGHT, SEE FIXTURE SCHEDULE FOR TYPE
- WALL-MOUNT LIGHT, SEE FIXTURE SCHEDULE FOR TYPE
- GROUND ROD
- GROUND ROD W/ TEST WELL

LEGEND - ONE LINE DIAGRAM AND WIRING DIAGRAM SYMBOLS

- CIRCUIT BREAKER, FRAME SIZE AND TRIP SETTING AS NOTED
- DISCONNECT SWITCH
- INVERTER
- BUS CONNECTION POINT
- CROSSING POINT (NO CONNECTION)
- NORMALLY CLOSED - NORMALLY OPEN CONTACTS
- TRANSFORMER CONTROL/POWER, SIZE AND RATING AS NOTED
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- FUSE, SIZE/RATING AS NOTED
- FUSED DISCONNECT SWITCH
- EARTH GROUND
- PUSHBUTTON SWITCHES; NUMBER AND TYPE OF CONTACT BLOCKS MAY VARY
- PUSHBUTTON SWITCHES MUSHROOM HEAD; NUMBER AND TYPE OF CONTACT BLOCKS MAY VARY
- KEYED INTERLOCK (KIRK KEY OR EQ.)
- SHUNT TRIP COIL

ABBREVIATIONS

A	AMPERES
AERMS	ARC ENERGY REDUCING MAINTENANCE SWITCH
AF	AMPERE FRAME
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AFDI	ARC FAULT DETECTION & INTERRUPTER
AIC	AMPS INTERRUPTING CAPACITY
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	CIRCUIT BREAKER
C	CONDUIT
CB	COMBINER BOX
CKT	CIRCUIT
COU	CONDITIONS OF USE
CP	CONTROL PANEL
CU	COPPER
DISC	DISCONNECT
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRIC, ELECTRICAL
EMERG	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EXIST	EXISTING
G, GND	GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
GFPE	GROUND-FAULT PROTECTION OF EQUIPMENT
HID	HIGH-INTENSITY DISCHARGE (LIGHTING)
HZ	HERTZ
IMC	INTERMEDIATE METALLIC CONDUIT
KAIC	1000 AMPS INTERRUPT CAPACITY
KCMIL	1000 CIRCULAR MILLS
kVA	KILO-VOLT AMPERE
kW	KILOWATT
LA	LIGHTNING & SURGE ARRESTOR
LED	LIGHT-EMITTING DIODE
LSIG	LONG, SHORT, INSTANTANEOUS, & GROUND FAULT
LTG	LIGHTING
MAX	MAXIMUM
MFG	MANUFACTURER
MLO	MAIN LUGS ONLY
MLPE	MODULE LEVEL POWER ELECTRONICS
MPPT	MAXIMUM POWER POINT TRACKING
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NTS	NOT TO SCALE
P	POLE
PF	POWER FACTOR
PLC	PROGRAMMABLE LOGIC CONTROLLER
POA	PLANE OF ARRAY
POI	POINT OF INTERCONNECTION
PRI	PRIMARY
PVC	POLYVINYL CHLORIDE
PWR	POWER
RCPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL CONDUIT
RMC	RIGID METAL CONDUIT
SA	SURGE ARRESTOR
SEC	SECONDARY
SPD	SURGE PROTECTION DEVICE
SSBJ	SUPPLY SIDE BONDING JUMPER
ST	SHUNT TRIP
STP	SHIELDED TWISTED PAIR
SW	SWITCH
TBD	TO BE DETERMINED
TP	TWISTED PAIR
TYP	TYPICAL
V	VOLT
VA	VOLT-AMPERE
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER
Ø	DIAMETER OR PHASE

NOTES SPECIFIC TO NEW YORK

ADOPTED NEC VERSION: 2017
ADOPTED IBC VERSION: 2018
ADOPTED IFC VERSION: 2018

UTILITY: CONSOLIDATED EDISON (CONED)

UTILITY DISCONNECT SWITCH REQUIREMENTS:
GENERATING EQUIPMENT WITH SYSTEM SIZE LARGER THAN 25 KW SHALL BE CAPABLE OF BEING ISOLATED FROM THE UTILITY SYSTEM BY MEANS OF AN EXTERNAL, MANUAL, VISIBLE, GANG-OPERATED, LOAD BREAK DISCONNECTING SWITCH. THE DISCONNECT SWITCH SHALL BE LOCATED WITHIN 10 FEET OF THE UTILITY'S EXTERNAL ELECTRIC SERVICE METER.

DRAWING TITLE
ELECTRICAL NOTES
& SYMBOL LIST

DRAWING #
PE001

PROJECT: 76.12 KW SOLAR ROOFTOP SYSTEM AT ST. DENIS COMMUNITY SCHOOL
121 MCCLEAN AVE
YONKERS, NY 10705

DC SYSTEM SIZE: 76.12 KW
AC SYSTEM SIZE: 72.00 KW
MODULE TYPE: CS3W-440MB-AG
MODULE QUANTITY: 173
STRING QUANTITY: 13
GENERATION: 19 TILT: 15.3 AZIMUTH: 015-41

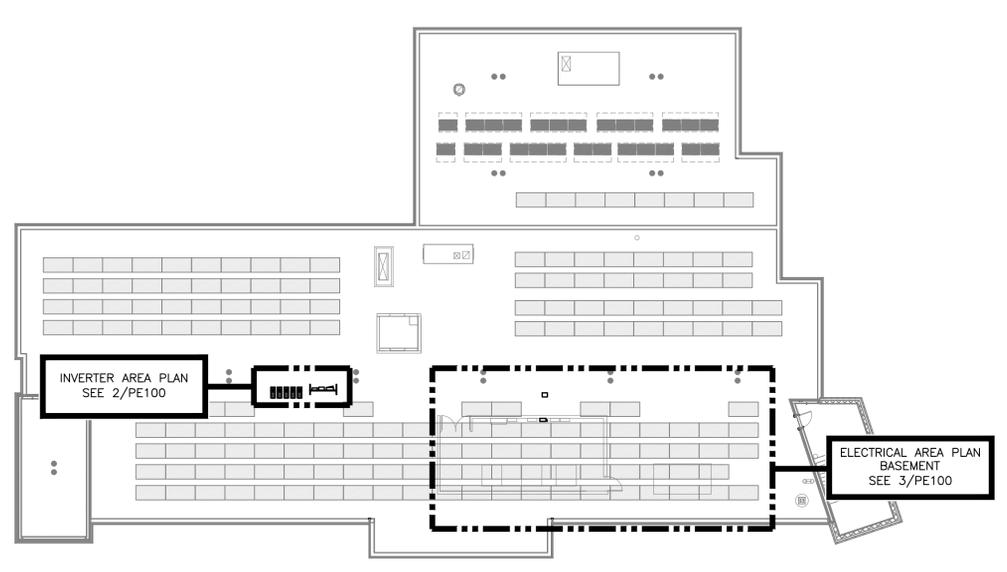
DEVELOPER: BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEER

ENGINEER: BARILE GALLAGHER & ASSOCIATES
111 RIVER STREET
ROCKY HILL, CT 06865
WWW.PUREPOWER.COM
RICHARD A. JINIS
NY LICENSE NO. 051197

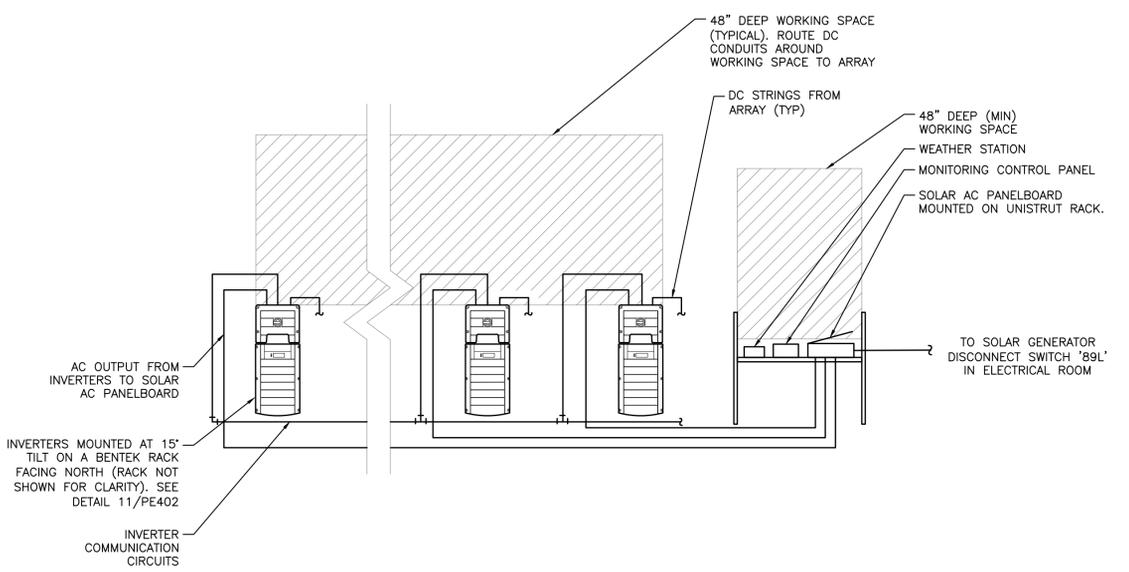
DATE: 07/14/2021
REVISION DESCRIPTION: AK, AA, RI
REV: 01
SUBMISSION: 01

PURE POWER
111 RIVER STREET
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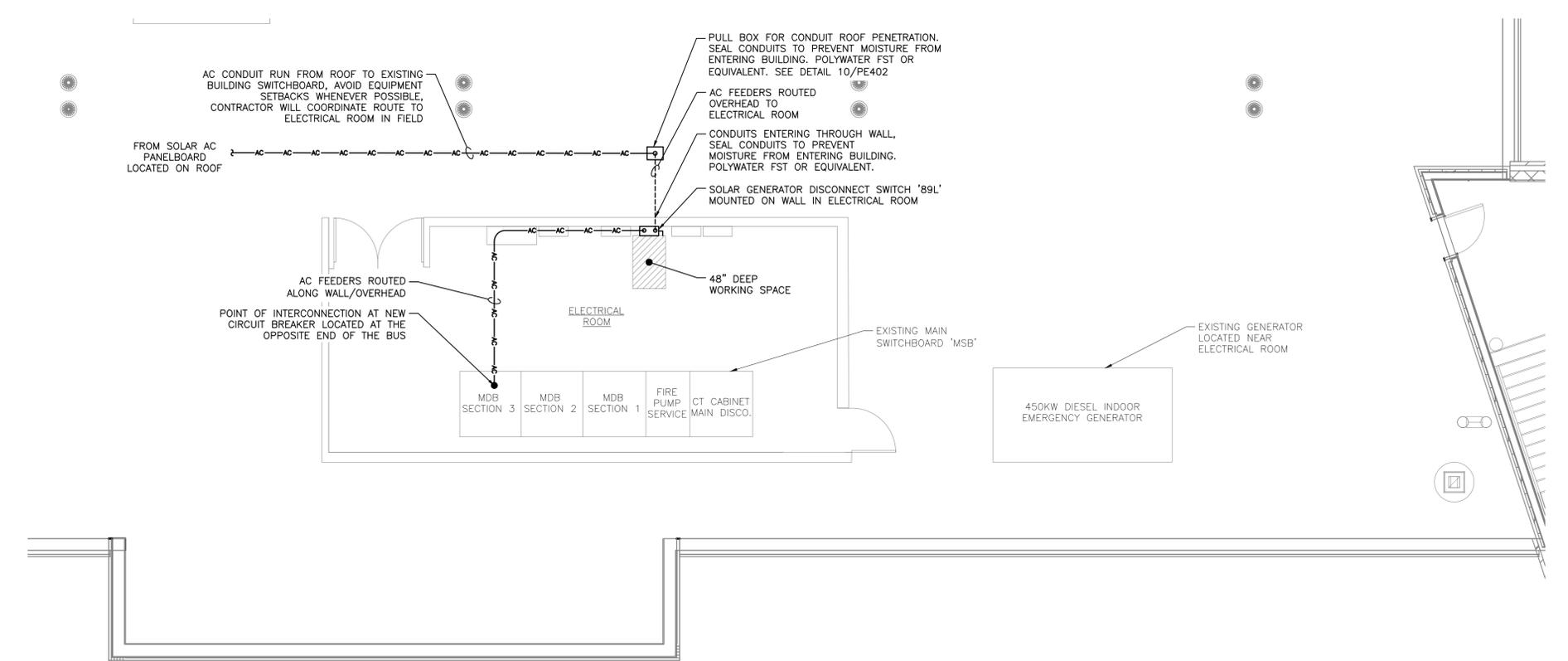
RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



1 OVERALL AC ELECTRICAL PLAN
PE100 SCALE: 1" = 20'-0"



2 INVERTER AREA PLAN
PE100 SCALE: 1/2" = 1'-0"



3 ELECTRICAL AREA PLAN
PE100 SCALE: 3/16" = 1'-0"

LINETYPE LEGEND
 ---DC--- DC CIRCUIT IN CONDUIT
 ---AC--- AC CIRCUIT IN CONDUIT
 ---COM--- COMMUNICATIONS

DRAWING TITLE
AC ELECTRICAL PLAN

<p>PURE POWER 111 RIVER STREET RICHMOND A. JONES WWW.PUREPOWER.COM NY LICENSE NO. 051197</p>	<p>BARILE GALLAGHER & ASSOCIATES 30 S. SHERIDAN AVE. PLEASANTVILLE, NY 10570 WWW.BGA-ENG.COM</p>	<p>DATE: 07/14/2021 REVISION DESCRIPTION: PM ENG CHK</p>	<p>PROJECT: 76.12 KW SOLAR ROOFTOP SYSTEM AT ST. DENIS COMMUNITY SCHOOL 121 MCCLEAN AVE YONKERS, NY 10705</p>	<p>DC SYSTEM SIZE: 76.12 KW AC SYSTEM SIZE: 72.00 KW MODULE TYPE: CS3W-440MB-AG MODULE QUANTITY: 173 STRING QUANTITY: 13 ORIENTATION: 19 TILT, 15.3 AZIMUTH</p>	<p>PAGE SIZE: 36" x 24" PROJECT #: 01541</p>
<p>DEVELOPER: BARILE GALLAGHER & ASSOCIATES CONSULTING ENGINEERS</p>					
				<p>DRAWING # PE100</p>	

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

AC FEEDER CALCULATIONS

EQUIPMENT SUPPLIED	FED FROM	VOLTAGE	FULL LOAD AMPS 'FLA'	FLA x 1.25	OCPD SIZE	GROUND SIZE	CONDUCTORS PER PHASE	PHASE CONDUCTOR SIZE	NEUTRAL CONDUCTOR SIZE	75° AMPACITY	90° AMPACITY	90° AMPACITY WITH C.O.U.	C.O.U. DERATE AMBIENT TEMP	C.O.U. DERATE CONDUIT FILL	FEEDER LENGTH (FEET)	SEGMENT VOLTAGE DROP AT FLA	TOTAL VOLTAGE DROP AT FLA
SOLAR SYSTEM AC DISCONNECT	POINT OF INTERCONNECTION	208	200.0	250.0	250	CU #4	1	CU 250MCM	CU 250MCM	255	290	278.4	0.96	1.00	30	0.27%	0.27%
SOLAR AC PANELBOARD	SOLAR SYSTEM AC DISCONNECT	208	200.0	250.0	250	CU #4	1	CU 250MCM	CU 250MCM	255	290	278.4	0.96	1.00	70	0.63%	0.90%
INVERTER 1	SOLAR AC PANELBOARD	208	40.0	50.0	60	CU #10	1	CU #6	CU #6	65	75	72	0.96	1.00	10	0.16%	1.06%
INVERTER 2	SOLAR AC PANELBOARD	208	40.0	50.0	60	CU #10	1	CU #6	CU #6	65	75	72	0.96	1.00	15	0.24%	1.14%
INVERTER 3	SOLAR AC PANELBOARD	208	40.0	50.0	60	CU #10	1	CU #6	CU #6	65	75	72	0.96	1.00	20	0.33%	1.23%
INVERTER 4	SOLAR AC PANELBOARD	208	40.0	50.0	60	CU #10	1	CU #6	CU #6	65	75	72	0.96	1.00	25	0.41%	1.31%
INVERTER 5	SOLAR AC PANELBOARD	208	40.0	50.0	60	CU #10	1	CU #6	CU #6	65	75	72	0.96	1.00	30	0.49%	1.39%

AVERAGE AC VOLTAGE DROP FROM POI TO INVERTERS: 1.04%

NOTE: DISTANCES ARE ESTIMATES GENERATED FOR ENGINEER'S CALCULATIONS. CONTRACTOR IS RESPONSIBLE FOR OWN MEASUREMENTS AND TAKEOFFS.

MODULE SPECIFICATIONS	
MAKE/MODEL	CS3W-440MB-AG
POWER [W]	440
ISC [A]	11.48
IMP [A]	10.82
VOC [V]	48.30
VMP [V]	40.10
β VOC [%/degC]	-0.290%
SITE CLIMATE CRITERIA	
ASHRAE HIGH [°C]	33
ASHRAE LOW [°C]	-14
STRING SPECIFICATIONS AT STC	
MODULES/STRING	15
POWER [W]	6600
STRING ISC [A]	11.48
STRING IMP [A]	10.82
STRING VMP [V]	601.50
STRING MAX VOLTAGE CALCULATION	
VOC TEMP ADJUSTMENT @ -14 °C	1.11
VOC @ -14 °C [V]	53.76
MAX STRING VOC [V]	806.4
STRING CALCULATIONS REFER TO THE PV SIDE OF DC OPTIMIZERS, NOT TO THE OPTIMIZER OUTPUT CIRCUIT	

DC STRING WIRING CALCULATION		
OPTIMIZER OUTPUT [AMPS]		15.00
MAX CONTINUOUS FAULT CURRENT FROM PARALLEL SOURCES [AMPS]		30.00
1.25x MAX CONTINUOUS FAULT CURRENT [AMPS]		37.50
MAX # OF WIRES PER CONDUIT		9
CONDUIT FILL DERATE		0.7
MAX AMBIENT TEMPERATURE		33
TEMPERATURE DERATE		0.96
WIRE GAUGE		CU #8
75DEG AMPACITY WITHOUT COU ADJUSTMENT [AMPS]		50
IS 75 DEG AMPACITY WITHOUT COU ADJUSTMENT >= 1.25x MAX CIRCUIT CURRENT?	YES. COMPLIES WITH 690.8(B)(1)	
90DEG AMPACITY WITH COU ADJUSTMENT [AMPS]		36.96
IS 90DEG AMPACITY WITH COU ADJUSTMENT >= 1.0x MAX CIRCUIT CURRENT?	YES. COMPLIES WITH 690.8(B)(2)	
DC OPTIMIZER OUTPUT CIRCUIT FUSE RATING [AMPS]		None
AVAILABLE FAULT CURRENT FROM ALL PARALLEL SOURCES [AMPS]		45
IS 90DEG AMPACITY WITH COU ADJUSTMENT >= AVAILABLE FAULT CURRENT?	YES. COMPLIES WITH 690.9(A) EXCEPTION	

INVERTER SPECIFICATIONS	
RATED AC OUTPUT POWER	14400 W
NOMINAL AC OUTPUT VOLTAGE	208Y/120 V
MAX. AC OUTPUT CURRENT	40 A
INVERTER PROTECTIVE SETTINGS	
PARAMETERS	SET AT
AC FREQUENCY RANGE	59.3 Hz – 60.5 Hz (DEFAULT)
AC VOLTAGE RANGE	244 V – 305 V (DEFAULT)
POWER FACTOR	1.0 (DEFAULT)
OVERFREQUENCY TRIP TIME	0.16S (DEFAULT)
UNDERFREQUENCY TRIP TIME	0.16S (DEFAULT)
OVERVOLTAGE TRIP TIME (FAST)	0.16S (DEFAULT)
OVERVOLTAGE TRIP TIME (SLOW)	1.0S (DEFAULT)
UNDERVOLTAGE TRIP TIME (FAST)	0.16S (DEFAULT)
UNDERVOLTAGE TRIP TIME (SLOW)	2.0S (DEFAULT)

INVERTERS 1-5	
STRING WIRE GAUGE	8AWG-CU
DC IMPEDANCE [OHM/KFT]	0.8090
OPERATING VOLTAGE [VDC]	602
OPERATING CURRENT [AMP]	10.8

INVERTERS 1-5		
STRING NUMBER	TOTAL STRING DISTANCE [FT]	STRING VOLTAGE DROP
1-1	85	0.25%
1-2	30	0.09%
1-3	80	0.23%
2-1	70	0.20%
2-2	25	0.07%
2-3	30	0.09%
3-1	80	0.23%
3-2	105	0.30%
3-3	115	0.33%
4-1	135	0.39%
4-2	50	0.15%
5-1	60	0.17%
5-2	55	0.16%
AVERAGE VOLTAGE DROP		0.21%

NOTE: DISTANCES ARE ESTIMATES GENERATED FOR ENGINEER'S CALCULATIONS. CONTRACTOR IS RESPONSIBLE FOR OWN MEASUREMENTS AND TAKEOFFS.

PROJECT: 76.12 KW SOLAR ROOFTOP SYSTEM AT ST. DENIS COMMUNITY SCHOOL
 121 MCCLEAN AVE
 YONKERS, NY 10705

DC SYSTEM SIZE: 76.12 kW
 AC SYSTEM SIZE: 22.00 kW
 MODULE TYPE: CS3W-440MB-AG
 MODULE QUANTITY: 173
 STRING QUANTITY: 15
 ORIENTATION: 15° TILT, 153° AZIMUTH

DEVELOPER: BARILE CALLAGHER & ASSOCIATES
 CONSULTING ENGINEERS
 100 PLEASANTVILLE, NY 10570
 WWW.BCA-ENG.COM

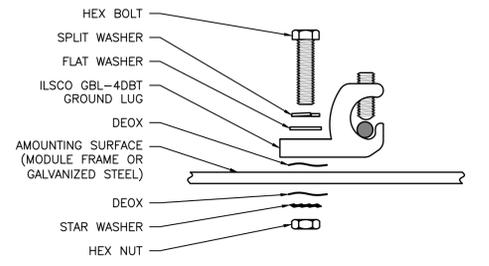
PAGE SIZE: 36" x 24"
 PROJECT #: 01541

DATE: 10/08/2021
 07/14/2021

REVISION DESCRIPTION: PM LENG CHK
 DATE: 10/08/2021
 07/14/2021
 REV: 1
 SUBMISSION REV1
 AK AA RI
 SUBMISSION
 AK AA RI

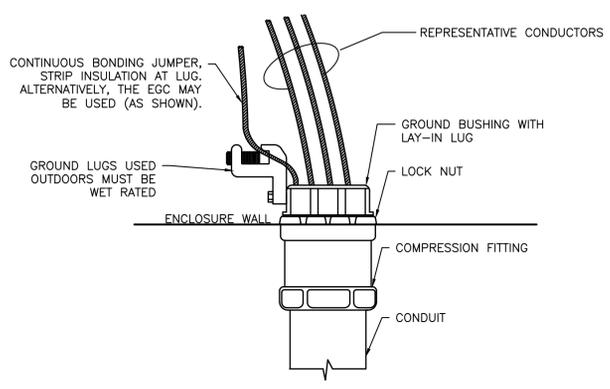
PURE POWER
 111 RIVER STREET
 FURKLEN, NY
 WWW.PUREPOWER.COM
 RICHARD A. JINIS
 NY LICENSE NO. 081197

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

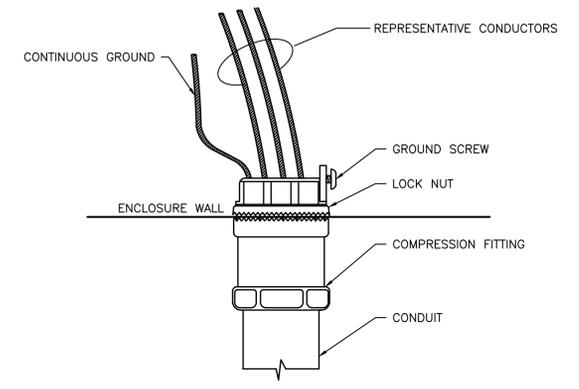


NOTES
 1. ALL HARDWARE TO BE STAINLESS STEEL.
 2. REFER TO ILSCO MANUAL FOR ADDITIONAL REQUIREMENTS AND TORQUE VALUES

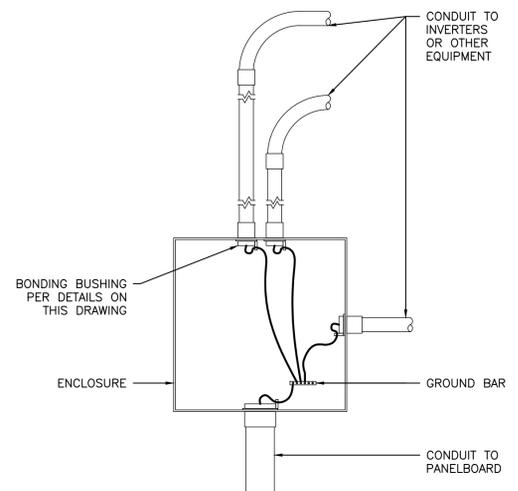
1 GROUND LUG DETAIL - ILSCO
 PE401 SCALE: NONE



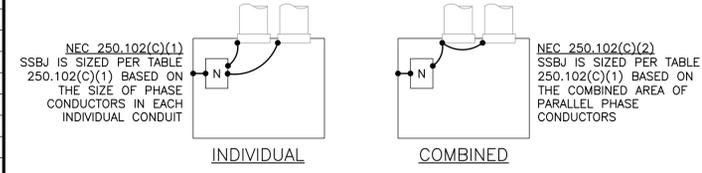
2 BONDING BUSHING GROUNDING DETAIL
 PE401 SCALE: NONE



3 MYER'S HUB GROUNDING DETAIL
 PE401 SCALE: NONE



4 PULL BOX/TROUGH GROUNDING DETAIL
 PE401 SCALE: NONE



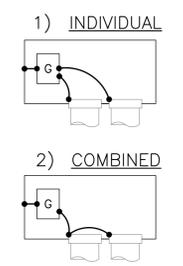
SIZE OF LARGEST UNGROUNDED CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS (AWG/KCMIL)		SIZE OF GROUNDED CONDUCTOR OR BONDING JUMPER (AWG/KCMIL)	
COPPER	ALUMINUM OR COPPER-CLAD ALUMINUM	COPPER	ALUMINUM OR COPPER-CLAD ALUMINUM
2 OR SMALLER	1/0 OR SMALLER	8	6
1 OR 1/0	2/0 OR 3/0	6	4
2 OR 2/0	4/0 OR 250	4	2
OVER 3/0 THROUGH 350	OVER 250 THROUGH 500	2	1/0
OVER 350 THROUGH 600	OVER 500 THROUGH 900	1/0	3/0
OVER 600 THROUGH 1100	OVER 900 THROUGH 1750	2/0	4/0
OVER 1100	OVER 1750	REFER TO NOTES IN NEC TABLE 250.102(C)(1)	

5 SUPPLY SIDE BONDING JUMPERS (SSBJ)
 PE401 SCALE: NONE

A) FOR CONCENTRIC KNOCKOUTS, USE BONDING JUMPERS AS FOLLOWS:

OVERCURRENT DEVICE CIRCUIT NOT EXCEEDING (AMPERES)	SIZE (AWG OR KCMIL)	
	COPPER	ALUMINUM
15	14	12
20	12	10
60	10	8
100	8	6
200	6	4
300	4	2
400	3	1
500	2	1/0
600	1	2/0
800	1/0	3/0
1000	2/0	4/0
1200	3/0	250
1600	4/0	350
2000	250	400
2500	350	600
3000	400	600
4000	500	750

FOR PARALLEL FEEDERS - NEC 250.102(D) EQUIPMENT BONDING JUMPER IS SIZED PER TABLE 250.122, REGARDLESS IF COMBINED OR INDIVIDUAL BONDING JUMPERS ARE USED

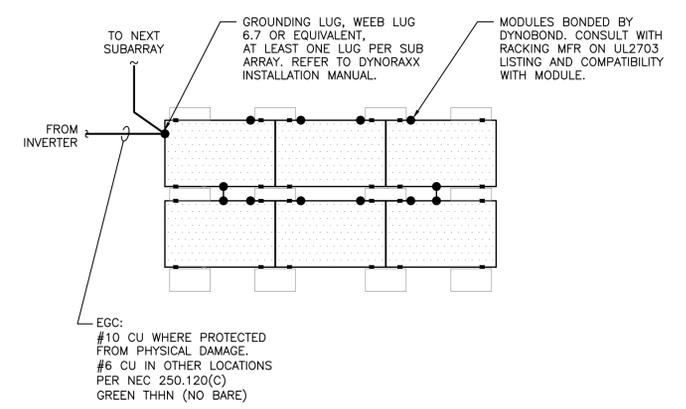


B) FOR NON-CONCENTRIC KNOCKOUTS, THE FOLLOWING METHODS SHALL BE PERMITTED (PER NEC 250.97)

- 1) THREADLESS COUPLINGS AND CONNECTORS FOR CABLES WITH METAL SHEATHS
- 2) TWO LOCKNUTS, ON RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT, ONE INSIDE AND ONE OUTSIDE OF BOXES AND CABINETS
- 3) FITTINGS WITH SHOULDERS THAT SEAT FIRMLY AGAINST THE BOX OR CABINET, SUCH AS ELECTRICAL METALLIC TUBING CONNECTORS, FLEXIBLE METAL CONDUIT CONNECTORS, AND CABLE CONNECTORS, WITH ONE LOCKNUT ON THE INSIDE OF BOXES AND CABINETS
- 4) LISTED FITTINGS (SUCH AS MEYERS HUB)

6 LOAD SIDE EQUIPMENT BONDING JUMPER
 PE401 SCALE: NONE

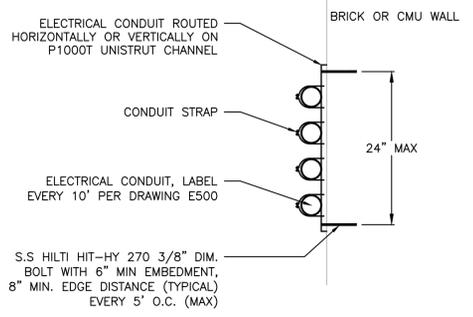
NOTES:
 1. EACH SUBARRAY CONNECTED TO AN INVERTER SHALL HAVE AN EGC RUN TO THAT INVERTER
 2. PV MODULES AND RAILS GROUNDED PER NEC 690.43



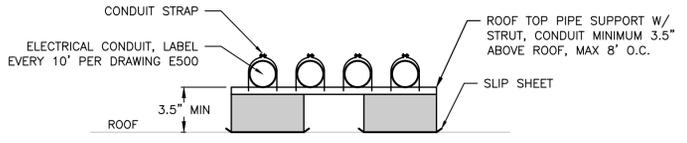
7 ARRAY GROUNDING - DYNAROX RACKING
 PE401 SCALE: NONE

PROJECT: 76.12 KW SOLAR ROOFTOP SYSTEM AT ST. DENIS COMMUNITY SCHOOL
 121 MCCLEAN AVE
 YONKERS, NY 10705
 DC SYSTEM SIZE: 76.12 KW
 AC SYSTEM SIZE: 72.00 KW
 MODULE TYPE: CS3W-440MB-AG
 MODULE QUANTITY: 173
 STRING QUANTITY: 13
 ORIENTATION: 19 TILT, 153 AZIMUTH
 DEVELOPER: BARILE GALLAGHER & ASSOCIATES
 111 RIVER STREET
 PLASANTVILLE, NY 10570
 WWW.BGA-ENG.COM
 ENGINEER: RICHARD A. JONIS
 LICENSE NO. 081197
 DATE: 07/14/2021
 REVISION DESCRIPTION: PM LENG CHK
 DATE: 07/14/2021
 SUBMISSION: AK
 AA
 R

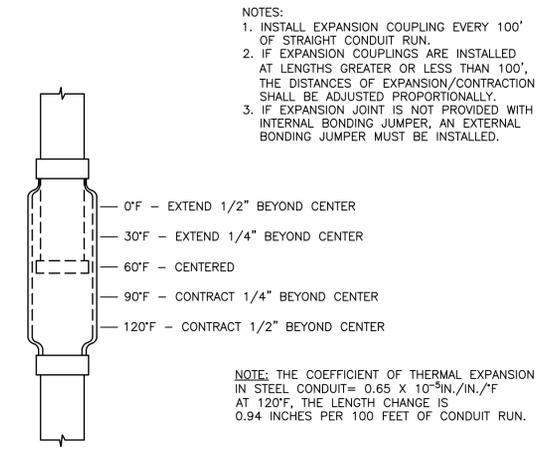
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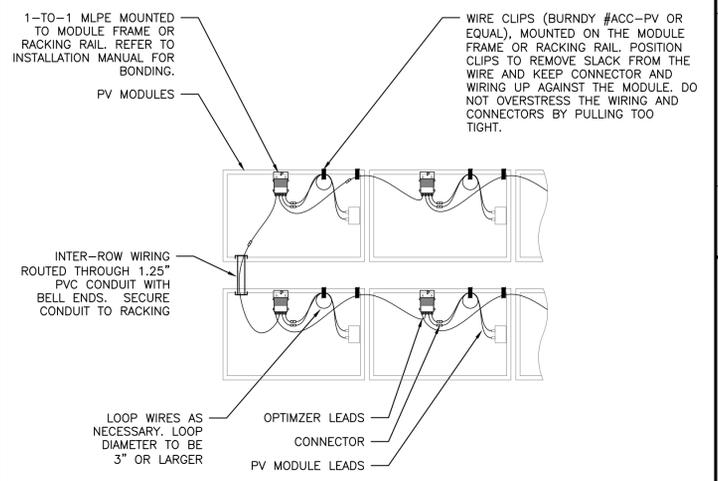
1 CONDUIT WALL ANCHORING
PE402 SCALE: NONE



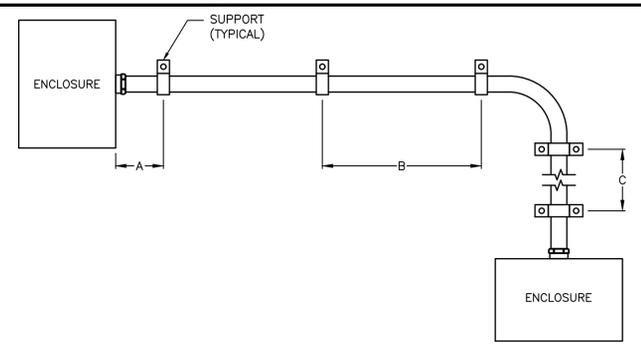
2 FLAT ROOF CONDUIT SUPPORT
PE402 SCALE: NONE



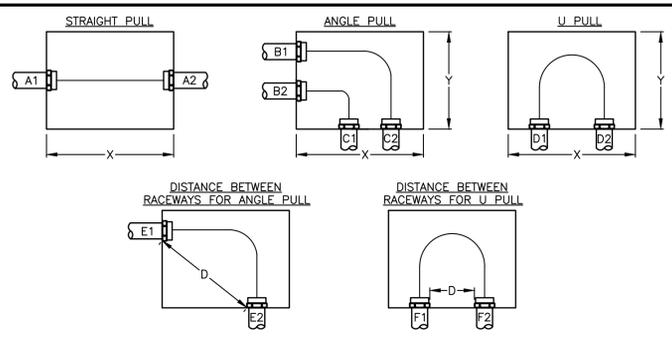
3 EMT, IMC, RMC EXPANSION COUPLING DETAIL
PE402 SCALE: NONE



4 STRING WIRING DETAIL
PE402 SCALE: NONE



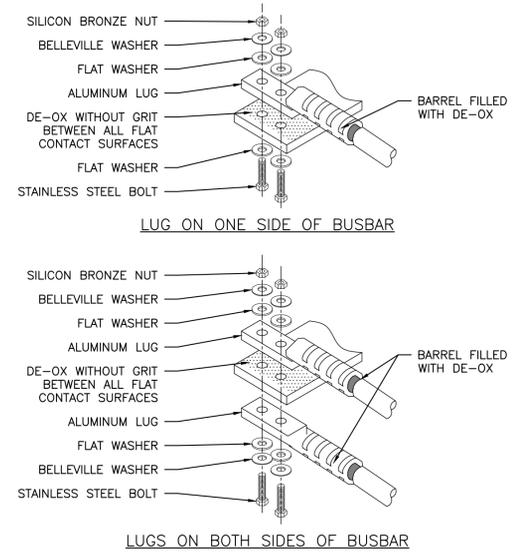
5 CONDUIT SUPPORT SPACING
PE402 SCALE: NONE



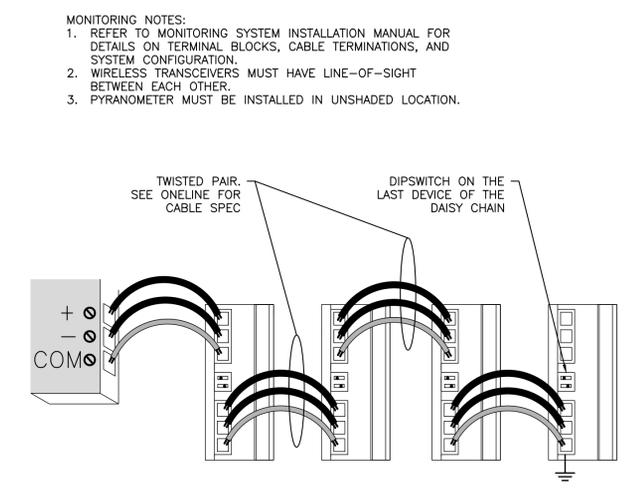
NEC 314.28(A)(1)-(3) PULL BOX SIZING (UP TO 1000V)

BOX TYPE	LENGTH (X)	HEIGHT (Y)	DISTANCE (D)
STRAIGHT PULL	8 X LARGEST OF A1 & A2	AS NEEDED	N/A
ANGLE PULL	6 X (LARGEST OF B1 & B2) + SUM OF OTHER CONDUIT ENTERING THE SAME WALL	6 X (LARGEST OF C1 & C2) + SUM OF OTHER CONDUIT ENTERING THE SAME WALL	6 X LARGEST OF E1 & E2
U PULL	AS NEEDED	6 X (LARGEST OF D1 & D2) + SUM OF OTHER CONDUIT ENTERING THE SAME WALL	6 X LARGEST OF F1 & F2

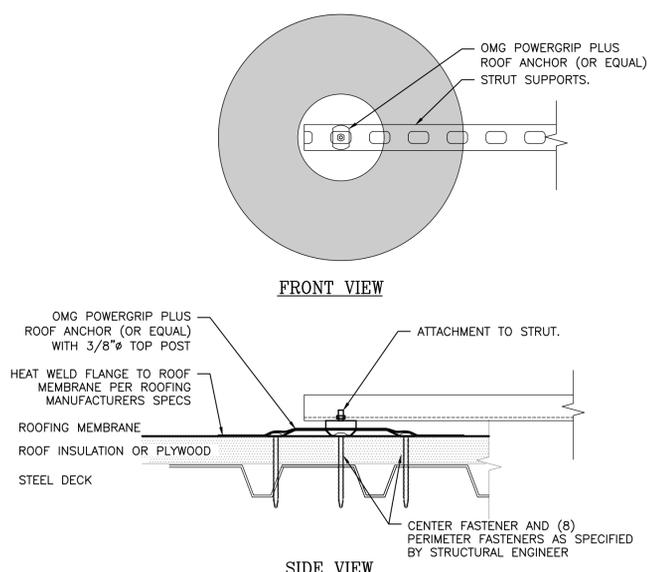
6 PULL BOX & JUNCTION BOX SIZING
PE402 SCALE: NONE



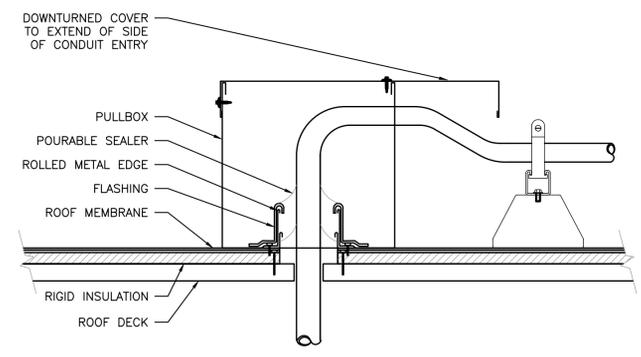
7 COMPRESSION LUG DETAIL
PE402 SCALE: NONE
E402 SCALE: NONE



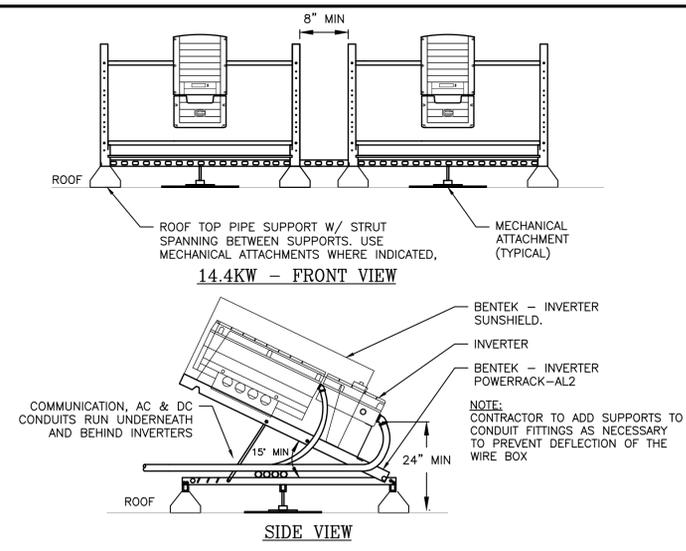
8 MODBUS DETAIL
PE402 SCALE: NONE



9 ROOF ANCHOR ATTACHMENT DETAIL
PE402 SCALE: NONE



10 ROOF PENETRATION WITH PITCH POCKET
PE402 SCALE: NONE



11 TYPICAL INVERTER RACK - SOLAREEDGE
PE402 SCALE: NONE

PROJECT: 76.12 KW SOLAR ROOFTOP SYSTEM AT ST. DENIS COMMUNITY SCHOOL
 121 MCCLEAN AVE YONKERS, NY 10705
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 AC SYSTEM SIZE: 72.00 kW
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 MODULE QUANTITY: 173
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 ORIENTATION: 19 TILT, 153 AZIMUTH
 DEVELOPER: BARILE GALLAGHER & ASSOCIATES
 111 RIVER STREET, SUITE 200, YONKERS, NY 10705
 WWW.BGA-ENG.COM
 PROJECT #: 015-41
 DATE: 07/14/2021
 REVISION DESCRIPTION: PM ENG CHK
 DATE: 07/14/2021
 SED: SUBMISSION
 AK: AA: R:

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

NEW

BiHiKu
SUPER HIGH POWER BIFACIAL MONO PERC MODULE
420 W ~ 445 W
UP TO 30% MORE POWER FROM THE BACK SIDE
CS3W-420 | 425 | 435 | 440 | 445MB-AG

MORE POWER

- EXTRA POWER: Up to 30% more power from the back side
- 24% higher front-side power than conventional modules
- Low NMOT: 41 ± 3 °C
- Low temperature coefficient (Pmax): -0.35 % / °C
- Better shading tolerance

MORE RELIABLE

- Lower internal current, lower hot spot temperature
- Minimizes micro-crack impacts
- Heavy snow load up to 5400 Pa, wind load up to 3600 Pa*

FRONT **BACK**

30 years linear power output warranty*

12 years enhanced product warranty on materials and workmanship*

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2015 / Quality management system
ISO 14001:2015 / Standards for environmental management system
OHSAS 18001:2007 / International standards for occupational health & safety

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730: VDE / CE / MCS / INMETRO
UL 1703, CSA / IEC 61701 EDO: VDE / IEC 62716: VDE / IEC 60068-2-68: S55
TUV Rheinland

CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in JHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 40 GW deployed around the world since 2001.

* For detail information, please refer to Installation Manual.

CANADIAN SOLAR INC.
545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com, support@canadiansolar.com

ENGINEERING DRAWING (mm)

ELECTRICAL DATA | STC*

Model	Nominal Power (P _{nom})	Opt. Power (P _{opt})	Opt. Current (I _{opt})	Opt. Voltage (V _{opt})	Open Circuit Voltage (V _{oc})	Short Circuit Current (I _{sc})	Module Efficiency (%)
CS3W-420MB-AG	420 W	39.9 W	10.53 A	47.9 V	11.27 A	18.8%	20%
CS3W-425MB-AG	425 W	39.9 W	11.06 A	47.9 V	11.83 A	19.7%	20%
CS3W-435MB-AG	435 W	39.9 W	11.58 A	47.9 V	12.40 A	20.7%	20%
CS3W-440MB-AG	440 W	39.9 W	12.09 A	47.9 V	12.97 A	21.7%	20%
CS3W-445MB-AG	445 W	39.9 W	12.61 A	47.9 V	13.54 A	22.6%	20%

ELECTRICAL DATA | NMOT**

Model	Nominal Power (P _{nom})	Opt. Power (P _{opt})	Opt. Current (I _{opt})	Opt. Voltage (V _{opt})	Open Circuit Voltage (V _{oc})	Short Circuit Current (I _{sc})	Module Efficiency (%)
CS3W-420MB-AG	315 W	37.3 W	8.42 A	45.2 V	9.09 A	18.8%	20%
CS3W-425MB-AG	318 W	37.5 W	8.48 A	45.4 V	9.13 A	19.7%	20%
CS3W-430MB-AG	322 W	37.7 W	8.54 A	45.6 V	9.17 A	20.7%	20%
CS3W-435MB-AG	326 W	37.9 W	8.59 A	45.8 V	9.21 A	21.7%	20%
CS3W-440MB-AG	329 W	38.1 W	8.65 A	46 V	9.26 A	22.6%	20%
CS3W-445MB-AG	333 W	38.3 W	8.71 A	46.1 V	9.31 A	23.6%	20%

MECHANICAL DATA

Specification Data

Cell Type: Mono-crystalline

Cell Arrangement: 144 [2x (12 X 6)]

Dimensions: 2132 ± 0.48 ± 30 mm (83.9 ± 0.19 ± 1.2 in)

Weight: 28.2 kg (62.6 lbs)

Front / Back Glass: 2.0 mm heat strengthened glass

Frame: Anodized aluminum alloy

J-Box: IP68, 3 diodes

Cable: 4.0 mm² (IEC), 12 AWG (UL)

Port: 40 mm (1.57 in) (4) / 280 mm (11.0 in) (1) landscape; 1400 mm (55.1 in) (1) portrait

Connector: MC4 or MC4-EVO2

Per Container (40' HQ): 660 pieces or 561 pieces (only for US)

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25 °C.

** NMOT: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting structure, height, tilt angle etc. and site of the ground.

ELECTRICAL DATA

Operating Temperature: -40°C ~ +85°C

Max. System Voltage: 1500 V (IEC/UL) or 1000 V (IEC/UL)

Module Fire Performance: TYPE 3 (UL 1703) or CLASS C (IEC61730)

Max. Series Fuse Rating: 25 A

Application Classification: Class A

Power Tolerance: 0 ~ +10 W

Power Bifaciality*: 70 %

* Power Bifaciality = (P_{max} - P_{front}) / P_{front}, both P_{max} and P_{front} are tested under STC. Bifaciality tolerance is ± 5 %

TEMPERATURE CHARACTERISTICS

Specification Data

Temperature Coefficient (P_{max}): -0.35 % / °C

Temperature Coefficient (V_{oc}): -0.27 % / °C

Temperature Coefficient (I_{sc}): 0.05 % / °C

Nominal Module Operating Temperature: 41 ± 3 °C

PARTNER SECTION

CANADIAN SOLAR INC.
545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com, support@canadiansolar.com

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CS3W-435MB-AG / I-V CURVES

ELECTRICAL DATA | NMOT**

Model	Nominal Power (P _{nom})	Opt. Power (P _{opt})	Opt. Current (I _{opt})	Opt. Voltage (V _{opt})	Open Circuit Voltage (V _{oc})	Short Circuit Current (I _{sc})	Module Efficiency (%)
CS3W-420MB-AG	315 W	37.3 W	8.42 A	45.2 V	9.09 A	18.8%	20%
CS3W-425MB-AG	318 W	37.5 W	8.48 A	45.4 V	9.13 A	19.7%	20%
CS3W-430MB-AG	322 W	37.7 W	8.54 A	45.6 V	9.17 A	20.7%	20%
CS3W-435MB-AG	326 W	37.9 W	8.59 A	45.8 V	9.21 A	21.7%	20%
CS3W-440MB-AG	329 W	38.1 W	8.65 A	46 V	9.26 A	22.6%	20%
CS3W-445MB-AG	333 W	38.3 W	8.71 A	46.1 V	9.31 A	23.6%	20%

MECHANICAL DATA

Specification Data

Cell Type: Mono-crystalline

Cell Arrangement: 144 [2x (12 X 6)]

Dimensions: 2132 ± 0.48 ± 30 mm (83.9 ± 0.19 ± 1.2 in)

Weight: 28.2 kg (62.6 lbs)

Front / Back Glass: 2.0 mm heat strengthened glass

Frame: Anodized aluminum alloy

J-Box: IP68, 3 diodes

Cable: 4.0 mm² (IEC), 12 AWG (UL)

Port: 40 mm (1.57 in) (4) / 280 mm (11.0 in) (1) landscape; 1400 mm (55.1 in) (1) portrait

Connector: MC4 or MC4-EVO2

Per Container (40' HQ): 660 pieces or 561 pieces (only for US)

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25 °C.

** NMOT: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting structure, height, tilt angle etc. and site of the ground.

ELECTRICAL DATA

Operating Temperature: -40°C ~ +85°C

Max. System Voltage: 1500 V (IEC/UL) or 1000 V (IEC/UL)

Module Fire Performance: TYPE 3 (UL 1703) or CLASS C (IEC61730)

Max. Series Fuse Rating: 25 A

Application Classification: Class A

Power Tolerance: 0 ~ +10 W

Power Bifaciality*: 70 %

* Power Bifaciality = (P_{max} - P_{front}) / P_{front}, both P_{max} and P_{front} are tested under STC. Bifaciality tolerance is ± 5 %

TEMPERATURE CHARACTERISTICS

Specification Data

Temperature Coefficient (P_{max}): -0.35 % / °C

Temperature Coefficient (V_{oc}): -0.27 % / °C

Temperature Coefficient (I_{sc}): 0.05 % / °C

Nominal Module Operating Temperature: 41 ± 3 °C

PARTNER SECTION

CANADIAN SOLAR INC.
545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com, support@canadiansolar.com

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Three Phase Inverters for the 120/208V Grid for North America

SE14.4KUS / SE17.3KUS

12-20 YEAR WARRANTY

INVERTERS

The best choice for SolarEdge enabled systems

- Specifically designed to work with power optimizers
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Built-in module-level monitoring with Ethernet, wireless or cellular communication for full system visibility
- Fixed voltage inverter for superior efficiency (97.5%) and longer strings
- Built-in type 2 DC and AC Surge Protection, to better withstand lightning events
- Integrated Safety Switch
- UL1741 SA certified, for CPUC Rule 21 grid compliance

solaredge.com

Three Phase Inverters for the 120/208V Grid⁽¹⁾ for North America

SE14.4KUS / SE17.3KUS

MODEL NUMBER	SE14.4KUS	SE17.3KUS
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXX-USX2IXXXX	
Rated AC Power Output	14400	17300
Maximum apparent AC output power	14400	17300
AC Output Line Connections	3W + PE, 4W + PE	
AC Output Voltage Minimum-Nominal-Maximum ⁽²⁾ (L-N)	105-120-132.5	Vac
AC Output Voltage Minimum-Nominal-Maximum ⁽²⁾ (L-L)	183-208-229	Vac
AC frequency Min-Max (Hz)	59.3 - 60 - 60.5	Hz
Continuous Output Current (per Phase)	40	48.25
Grid Threshold	1	A
Utility Monitoring, Islanding Protection, Country Configurable Set Point	Yes	
THD	≤ 3	%
Power Factor Range	+/- 0.85 to 1	
INPUT		
Maximum DC Power (Module STC)	21600	26000
Transformer-less, Ungrounded	Yes	
Maximum Input Voltage DC+ to DC-	600	Vdc
Nominal Input Voltage DC+ to DC-	400	Vdc
Maximum Input Current	40	48.25
Maximum Input Short Circuit Current	55	Adc
Reverse-Polarity Protection	Yes	
Overvoltage Isolation Detection	Yes	
CEC Weighted Efficiency	97.5	%
Night-time Power Consumption	< 4	W
Compatible inverters	All SolarEdge Single Phase and Three Phase Inverters	
Dimensions (W x L x H)	129 x 153 x 275 / 5.1 x 6	129 x 153 x 315.7 / 5.1 x 6 x 12.4
Weight (including cables)	655 / 14	750 / 17
Input Connector	MC4 ⁽³⁾	MC4 ⁽³⁾
Input Wire Length	0.16 / 0.52, 0.9 / 2.35 ⁽⁴⁾	0.16 / 0.52, 0.9 / 2.35 ⁽⁴⁾
Output Wire Type / Connector	Double Insulated / MC4	Double Insulated / MC4
Output Wire Length	12 / 3.9	
Operating Temperature Range ⁽⁵⁾	-40 to +85 / -40 to +185	
Protection Rating	IP65 / NEMA 3P	
Relative Humidity	0 - 100	%
DC Disconnect	Integrated	
STANDARD COMPLIANCE		
Safety	UL1741, UL1741 SA, UL1699B, CSA C22.2 Canadian AFCI according to TLL M-07 (11.0 in) (1) landscape; 1400 mm (55.1 in) (1) portrait	
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (P)	
Per Pallet	33 pieces	
Per Container (40' HQ)	660 pieces or 561 pieces (only for US)	
INSTALLATION SPECIFICATIONS		
AC output conduit size / AWG range	1" or 1 1/8" - 10 AWG	
DC input conduit size / AWG range	1" or 1 1/8" - 12 AWG	
Number of DC input pairs	4	
Dimensions with Safety Switch (H x W x D)	31.8 x 125.8 x 118.8 / 808 x 317 x 300	in / mm
Weight with Safety Switch	78.2 / 35.5	lb / kg
Cooling	Fans (user replaceable)	
Noise	< 62	dBA
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽⁶⁾	°F / °C
Protection Rating	NEMA 3P	
Mounting	Bracket provided	

ADDITIONAL FEATURES

Supported Communication Interfaces: 2 x RS485, Ethernet, Cellular (optional)

Inverter Commissioning: With the SetApp mobile application using built-in Wi-Fi access point for local connection

Rapid Shutdown: NEC2014, NEC2017 and NEC2020 compliant/certified

RS485 Surge Protection Plug-in: Supplied with the inverter, Built-In

AC DC Surge Protection: Type II, Field replaceable, Built-In

DC Fuses (Single Pole): 25A, Built-in

Smart Energy Management: Export Limitation

DC SAFETY SWITCH

DC Disconnect: Integrated

STANDARD COMPLIANCE

Safety: UL1741, UL1741 SA, UL1699B, CSA C22.2 Canadian AFCI according to TLL M-07 (11.0 in) (1) landscape; 1400 mm (55.1 in) (1) portrait

Grid Connection Standards: IEEE1547, Rule 21, Rule 14 (P)

Per Pallet: 33 pieces

Per Container (40' HQ): 660 pieces or 561 pieces (only for US)

INSTALLATION SPECIFICATIONS

AC output conduit size / AWG range: 1" or 1 1/8" - 10 AWG

DC input conduit size / AWG range: 1" or 1 1/8" - 12 AWG

Number of DC input pairs: 4

Dimensions with Safety Switch (H x W x D): 31.8 x 125.8 x 118.8 / 808 x 317 x 300 in / mm

Weight with Safety Switch: 78.2 / 35.5 lb / kg

Cooling: Fans (user replaceable)

Noise: < 62 dBA

Operating Temperature Range: -40 to +140 / -40 to +60⁽⁶⁾ °F / °C

Protection Rating: NEMA 3P

Mounting: Bracket provided

NOTES:

(1) For 277/480V inverters refer to <https://www.solaredge.com/sites/default/files/inverter-three-phase-v-inverter-277-480-v-mppt-datasheet.pdf>

(2) For other regional settings please contact SolarEdge support

(3) Where permitted by local regulations

(4) For more derating information refer to <https://www.solaredge.com/sites/default/files/temperature-derating-note-us.pdf>

(5) For 277/480V inverters refer to <https://www.solaredge.com/sites/default/files/inverter-three-phase-v-inverter-277-480-v-mppt-datasheet.pdf>

(6) For other regional settings please contact SolarEdge support

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Power Optimizer for North America

P370 / P400 / P401 / P485 / P505

25 YEAR WARRANTY

POWER OPTIMIZER

PV power optimization at the module-level

- Specifically designed to work with SolarEdge inverters
- Up to 25% more energy
- Superior efficiency (99.5%)
- Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Fast installation with a single bolt
- Next generation maintenance with module-level monitoring
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- Module-level voltage shutdown for installer and firefighter safety

solaredge.com

Power Optimizer for North America

P370 / P400 / P401 / P485 / P505

Optimizer model (typical module compatibility)	P370 (for higher-power 60 and 72-cell modules)	P400 (for 72 & 96-cell modules)	P401 (for high power 60 and 72 cell modules)	P485 (for high-voltage modules)	P505 (for higher current modules)
Rated Input DC Power ⁽¹⁾	370	400	400	485	505
Absolute Maximum Input Voltage (Max. at lowest temperature)	60	80	60	250 ⁽²⁾	80 ⁽³⁾
MPPT Operating Range	8 - 60	8 - 80	8 - 60	10.5 - 105	12.5 - 88
Maximum Short Circuit Current (I _{sc})	11	10.1	11.75	11	14
Maximum Efficiency				99.5	
Weighted Efficiency				98.8	
Overvoltage Capacity				8	
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)					
Maximum Output Current		15			
Maximum Output Voltage		60		80	
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE INVERTER OFF)					
Safety Output Voltage per Power Optimizer		1	0.1		
STANDARD COMPLIANCE					
Photovoltaic Rapid Shutdown System	NEC 2014, 2017 & 2020			NEC 2014, 2017 & 2020	NEC 2014, 2017 & 2020
ENC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3				
Safety	IEC62109-1 (class II safety), UL1741				
Material	UL94 V-0, UV Resistant				
RoHS	Yes				
INSTALLATION SPECIFICATIONS					
Maximum Allowed System Voltage		1000			
Compatible inverters		All SolarEdge Single Phase and Three Phase Inverters			
Dimensions (W x L x H)	129 x 153 x 275 / 5.1 x 6	129 x 153 x 315.7 / 5.1 x 6 x 12.4	129 x 153 x 315.7 / 5.1 x 6 x 12.4	129 x 153 x 315.7 / 5.1 x 6 x 12.4	129 x 153 x 315.7 / 5.1 x 6 x 12.4
Weight (including cables)	655 / 14	750 / 17	655 / 14	845 / 19	1064 / 23
Input Connector	MC4 ⁽³⁾	MC4 ⁽³⁾	MC4 ⁽³⁾	Single or dual MC4 ⁽³⁾	MC4 ⁽³⁾
Input Wire Length	0.16 / 0.52, 0.9 / 2.35 ⁽⁴⁾	0.16 / 0.52	0.16 / 0.52, 0.9 / 2.35 ⁽⁴⁾	0.16 / 0.52	0.16 / 0.52
Output Wire Type / Connector	Double Insulated / MC4	Double Insulated / MC4	Double Insulated / MC4	Double Insulated / MC4	Double Insulated / MC4
Output Wire Length	12 / 3.9		12 / 3.9		
Operating Temperature Range ⁽⁵⁾		-40 to +85 / -40 to +185			
Protection Rating		IP65 / NEMA 3P			
Relative Humidity		0 - 100			
DC Disconnect		Integrated			
STANDARD COMPLIANCE					
Safety	UL1741, UL1741 SA, UL1699B, CSA C22.2 Canadian AFCI according to TLL M-07 (11.0 in) (1) landscape; 1400 mm (55.1 in) (1) portrait				
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (P)				
Per Pallet	33 pieces				
Per Container (40' HQ)	660 pieces or 561 pieces (only for US)				
INSTALLATION SPECIFICATIONS					
AC output conduit size / AWG range		1" or 1 1/8" - 10 AWG			
DC input conduit size / AWG range		1" or 1 1/8" - 12 AWG			
Number of DC input pairs		4			
Dimensions with Safety Switch (H x W x D)		31.8 x 125.8 x 118.8 / 808 x 317 x 300			
Weight with Safety Switch		78.2 / 35.5			
Cooling		Fans (user replaceable)			
Noise		< 62			
Operating Temperature Range		-40 to +140 / -40 to +60 ⁽⁶⁾			
Protection Rating		NEMA 3P			
Mounting		Bracket provided			
PV System Design Using a SolarEdge Inverter ⁽⁸⁾		Single-Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid
Minimum String Length (Power Optimizer)	P370, P400, P401	8	10	10	10
Maximum String Length (Power Optimizer)	P485, P505	25	25	25	25
Maximum Nominal Power per String	3700 ⁽⁹⁾ (6000 with SE7000-US - SE14000-US)	5250 ⁽⁹⁾	6000 ^{(9)</}		