

KITCHEN AND OFFICE RENOVATIONS AT BRIGANTINE CONSOLIDATED SCHOOL

301 EAST EVANS BLVD.
BRIGANTINE, NJ 08203

FOR THE

BRIGANTINE BOARD OF EDUCATION

301 EAST EVANS BLVD., BRIGANTINE, NJ 08203

SCHOOL BOARD PRESIDENT OR VICE PRESIDENT

SIGNATURE

CHIEF SCHOOL ADMINISTRATOR

SIGNATURE

SUPERINTENDENT:	GLENN ROBBINS
BUSINESS ADMINISTRATOR:	JONATHAN HOUDART
<hr/>	
SPIEZLE COMISSION NUMBER:	20K009
DOE STATE PROJECT	01-0570-300-20-2000
NUMBER(S):	01-0570-300-21-1000

MEP CONSULTANT
KSI MECHANICAL ENGINEERS



SPIEZLE ARCHITECTURAL GROUP, INC
1395 YARDVILLE HAMILTON SQUARE ROAD
SUITE 2A
HAMILTON, NJ 08691
Phone: 609.695.7400 Fax: 609.394.2274
www.spiezle.com

FOOD SERVICE CONSULTANT
RAYMOND AND RAYMOND

BID SET 09-24-20

KITCHEN AND OFFICE
RENOVATIONS AT BRIGANTINE
CONSOLIDATED SCHOOL

20K009

DRAWING
NUMBER:

CS. I

BID DATE: 09/24/20

1/16"=1'-0"
0 8 16 32 48
1/8"=1'-0"
0 4 8 12 16 20 24 28 32 36 40 44 48
1/4"=1'-0"
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48
3/4"=1'-0"
0 6 12 18 24 30 36 42 48
1 1/2"=1'-0"
0 6 12 18 24 30 36 42 48
1"=1'-0"
0 6 12 18 24 30 36 42 48
1 1/2"=1'-0"
0 6 12 18 24 30 36 42 48
2"=1'-0"
0 6 12 18 24 30 36 42 48
3"=1'-0"
0 6 12 18 24 30 36 42 48

DRAWING SYMBOLS

SIMOFF TAG
DETAIL NO.
DRAWING NO.

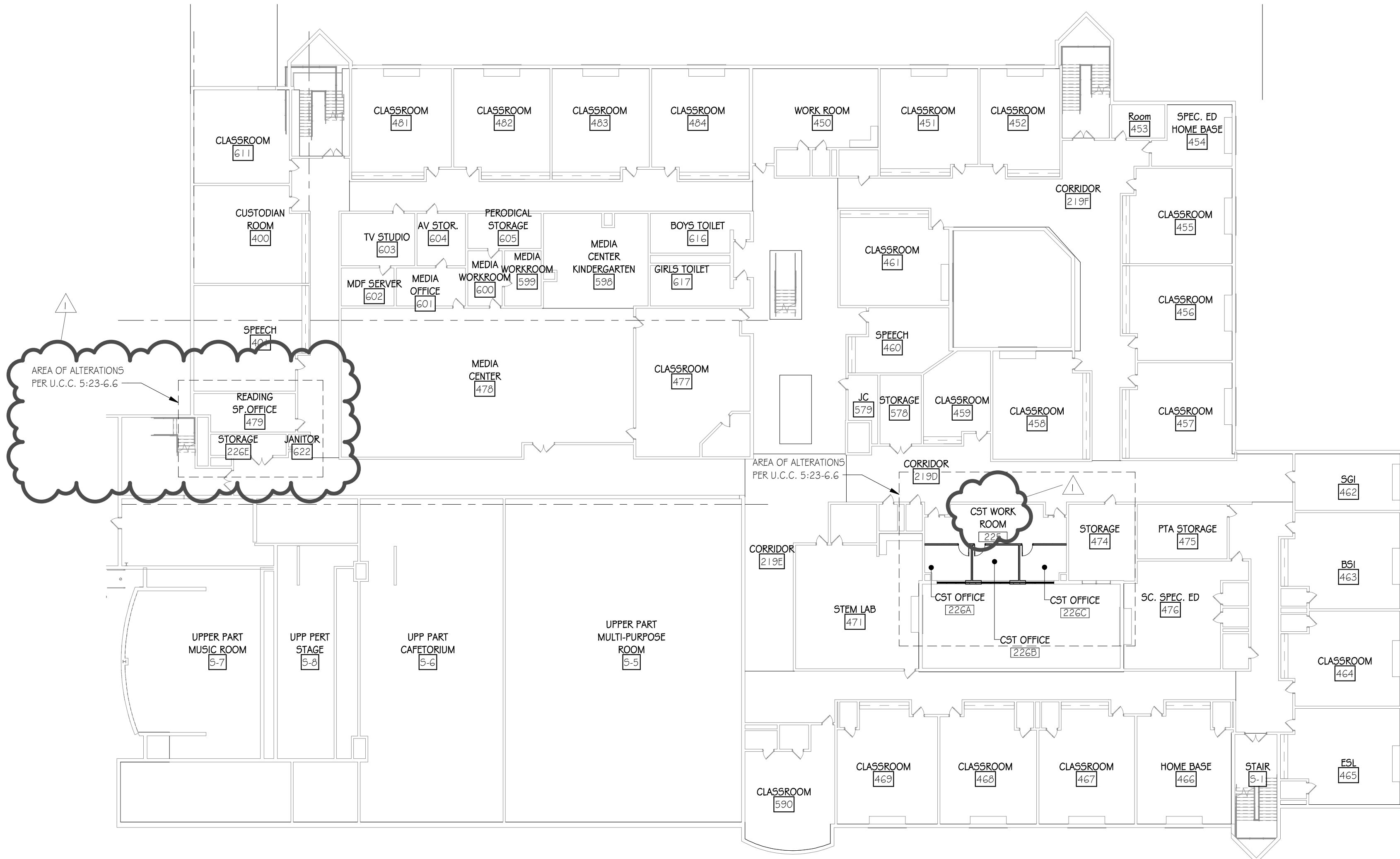
SIMOFF TAG
OPEN HEAD
SECTION NO.
DRAWING NO.

SIMOFF TAG
CLOSED HEAD
SECTION NO.
DRAWING NO.

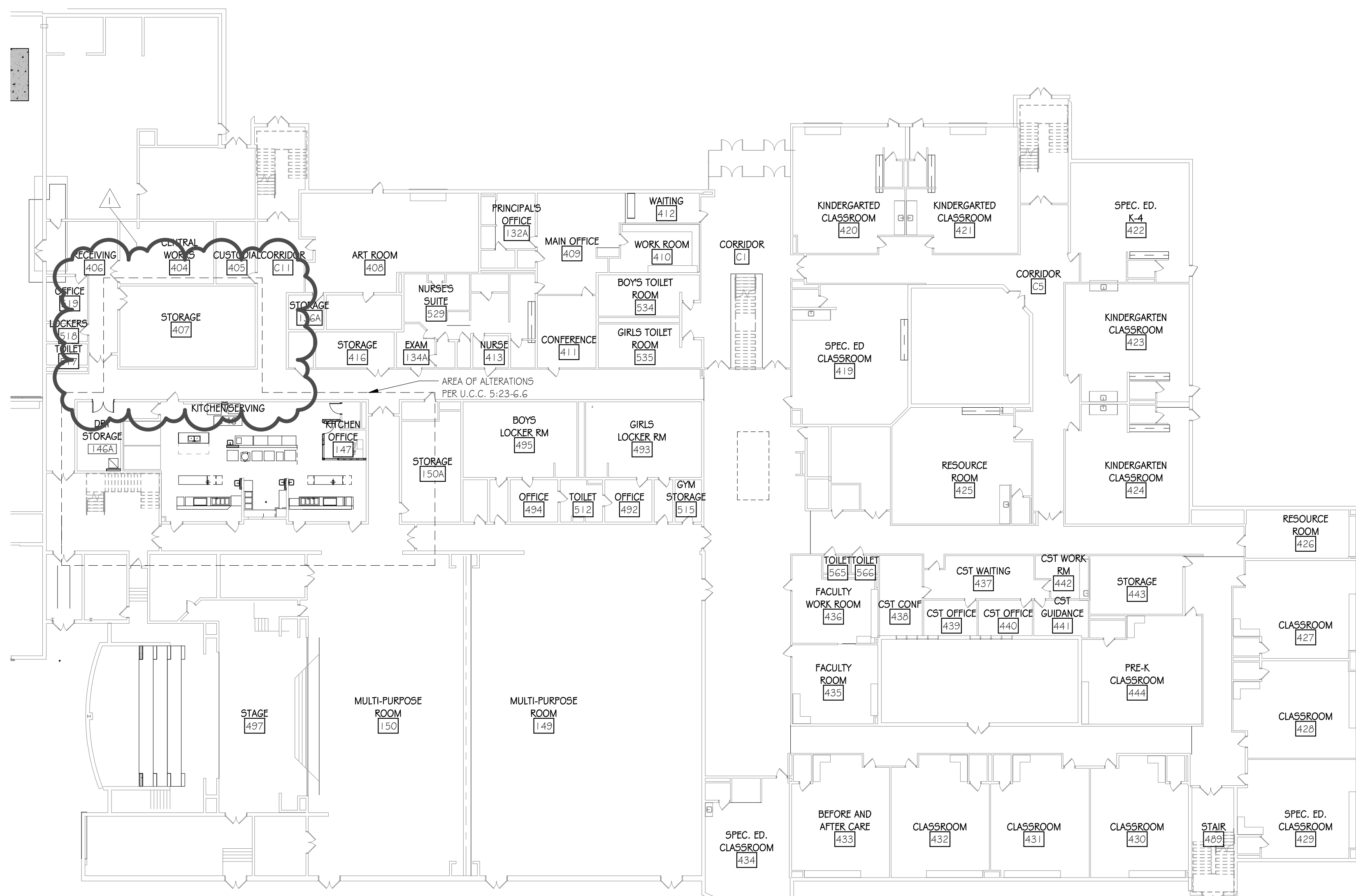
EXTERIOR
DETAIL NO.
DRAWING NO.

INTERIOR
DETAIL NO.
DRAWING NO.

ROOM NAME
ROOM NUMBER
GROSS SF
OCCUPANTS



1 SECOND FLOOR CODE PLAN
3/64" = 1'-0"



2 FIRST FLOOR CODE PLAN
3/64" = 1'-0"

BUILDING OR AREA DESIGNATION

NEW JERSEY INTERNATIONAL BUILDING CODE (2015)	
USE GROUP CLASSIFICATION	(E)
CONSTRUCTION TYPE FOR REVIEW	(B, IIB) (SPRINKLERED & NON-SPRINKLERED)
FIRE RESISTANCE RATINGS	PRIMARY STRUCTURAL FRAME FOR 1 B ROOF ONLY: 1 HR. (EXISTING- NO CHANGE)
BUILDING HEIGHT	(2) (EXISTING- NO CHANGE)
ACTUAL NUMBER OF STORIES	(2) (EXISTING- NO CHANGE)
AREA OF ALTERATION (KITCHEN/OFFICE)	2051 SF
AREA OF ALTERATION (CST SUITE)	580 SF

APPLICABLE CODES (NJ)

1. NJ UNIFORM CONSTRUCTION CODE - N.J.A.C. 5:23
2. INTERNATIONAL BUILDING CODE - 2016 NEW JERSEY EDITION
3. NATIONAL STANDARD PLUMBING CODE - 2018
4. NATIONAL ELECTRICAL CODE (NFPA 70) - 2017
5. ENERGY SUBCODE - ASHRAE 90.1-2016
6. INTERNATIONAL MECHANICAL CODE - 2018
7. INTERNATIONAL FUEL GAS CODE - 2018
8. REHABILITATION SUBCODE, N.J.A.C. 5:23-6
9. BARRIER FREE SUBCODE, CHAPTER 11 OF IBC-2018 & ICCANSI A117.1-2009
10. ELEVATOR SUBCODE - N.J.A.C. 5:23-12

CODE REVIEW:

CERTIFICATE:



SPIEZE ARCHITECTURAL GROUP INC.
1395 YARDVILLE HAMILTON SQUARE ROAD
SUITE 2A
HAMILTON, NJ 08651
Phone: 609-695-7400

SIGNATURE:
THOMAS D. PERRIN 21A01505400
SCOTT E. DOWNE 21A01674400
STEVEN LEONE 21A01170100
STEVEN G. SPIEZE 21A01564000
SPIEZE ARCHITECTURAL GROUP, INC. 21AC00063000

SEAL:

CONSULTANTS:

BID SET 09-24-20

PROJECT:

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301 EAST EVANS BLVD.
BRIGANTINE, NJ 08203

FOR
BRIGANTINE BOARD
OF EDUCATION

301 EAST EVANS BLVD.,
BRIGANTINE, NJ 08203

FOR CODE REVIEW: DOMMMYYY

REVISIONS:		
1	REVISION NAME	DATE
1	APPENDUM NO. 1	1/05/20

FOR BID: 09/24/20

DRAWING TITLE:

CODE PLANS

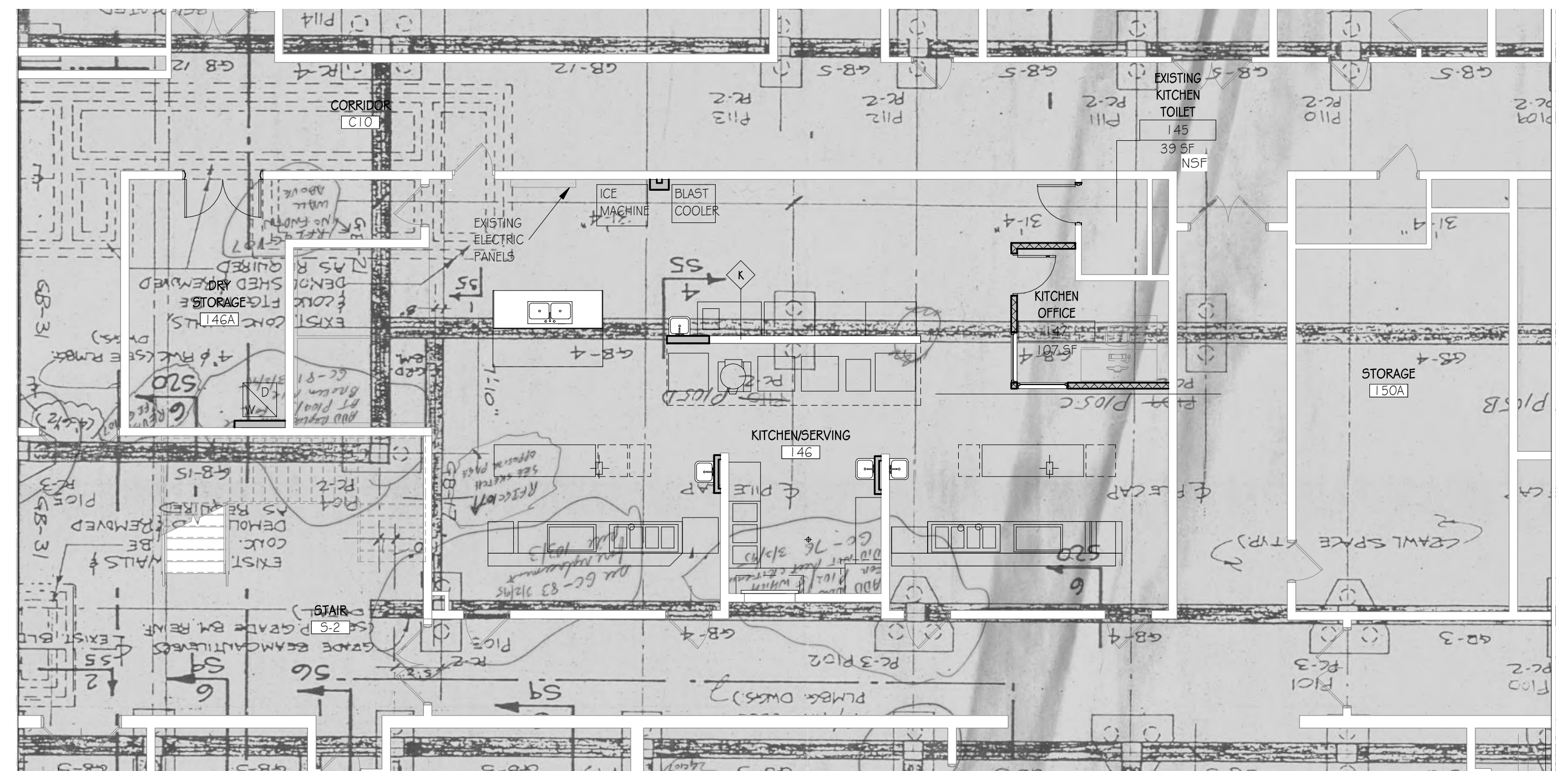
COMMISSION NUMBER:
20K009

AGENCY NUMBER:
01-0570-300-20-2000
01-0570-300-21-1000

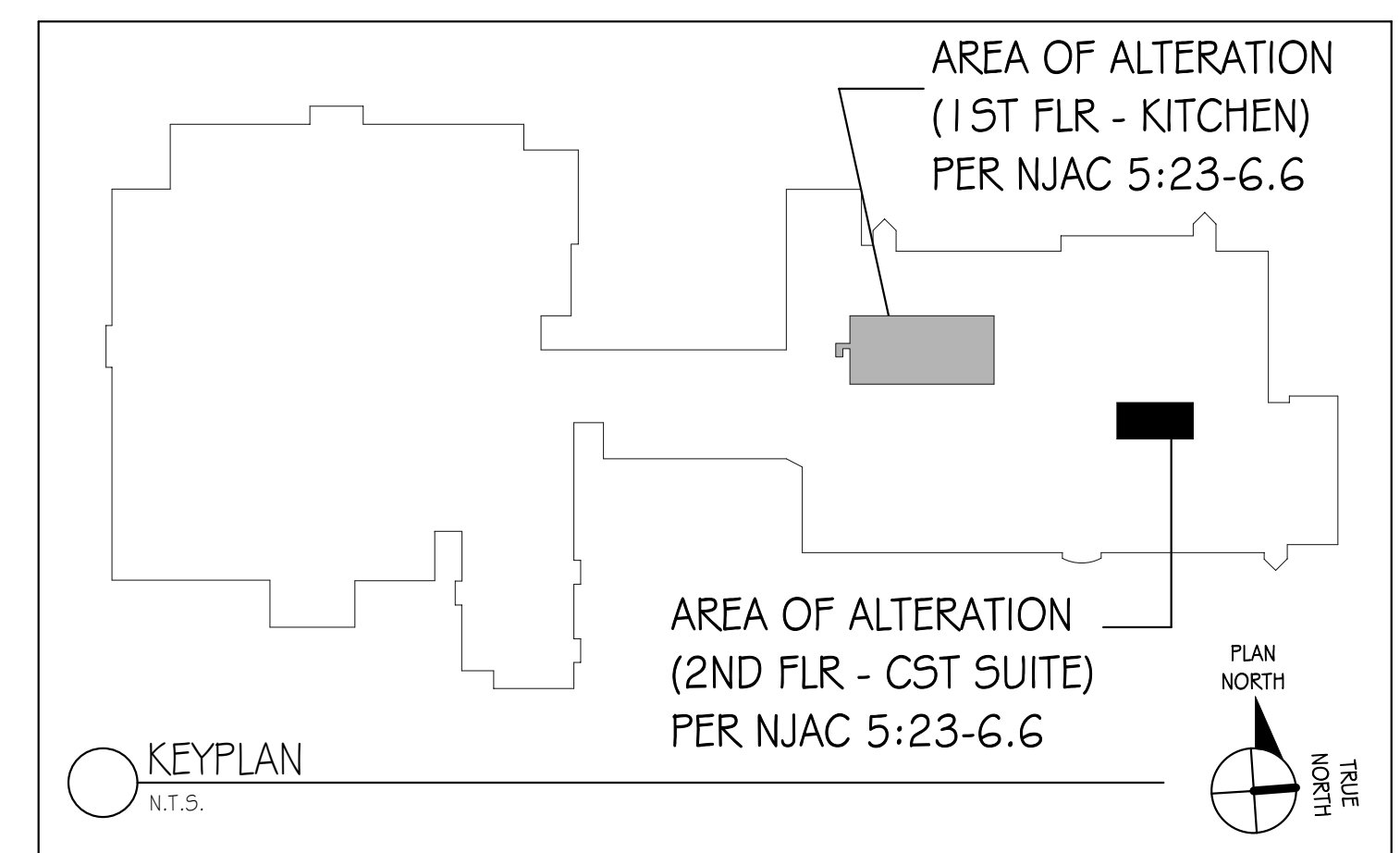
DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

CP. 1



3 PARTIAL FIRST FLOOR PLAN - FOUNDATION OVERLAY (FOR INFORMATIN ONLY)
1/8" = 1'-0"



CODE REVIEW:

CERTIFICATE:

SPIEZE ARCHITECTURAL GROUP INC.
1395 YARDVILLE HAMILTON SQUARE ROAD
SUITE 2A
HAMILTON, NJ 08691
Phone: 609-695-7400

SIGNATURE:	
THOMAS S. PERRINO	21AIO150540
SCOTT E. DOWNE	21AIO167440
STEVEN LEONE	21AIO117010
STEVEN G. SIEGEL	21AIO156420
MEZLE ARCHITECTURAL GROUP, INC.	21AC00063000

CONSULTANTS:

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BRIGANTINE, NJ 08203

FOR CODE REVIEW: DD/MM/YY

REVISIONS:		
	REVISION NAME	DATE
1	ADDENDUM NO. 1	10/05/20

FOR BID: 09/24/20

DRAWING TITLE:

PARTIAL
DEMOLITION PLANS

COMMISSION NUMBER:
20K009

AGENCY NUMBER:
01-0570-300-20-2000
01-0570-300-21-1000
DO NOT SCALE THE DRAWINGS

DRAWING
NUMBER:

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D1.1

1' = 1'-0"

1/2" = 1'-0"

1" = 1'-0"

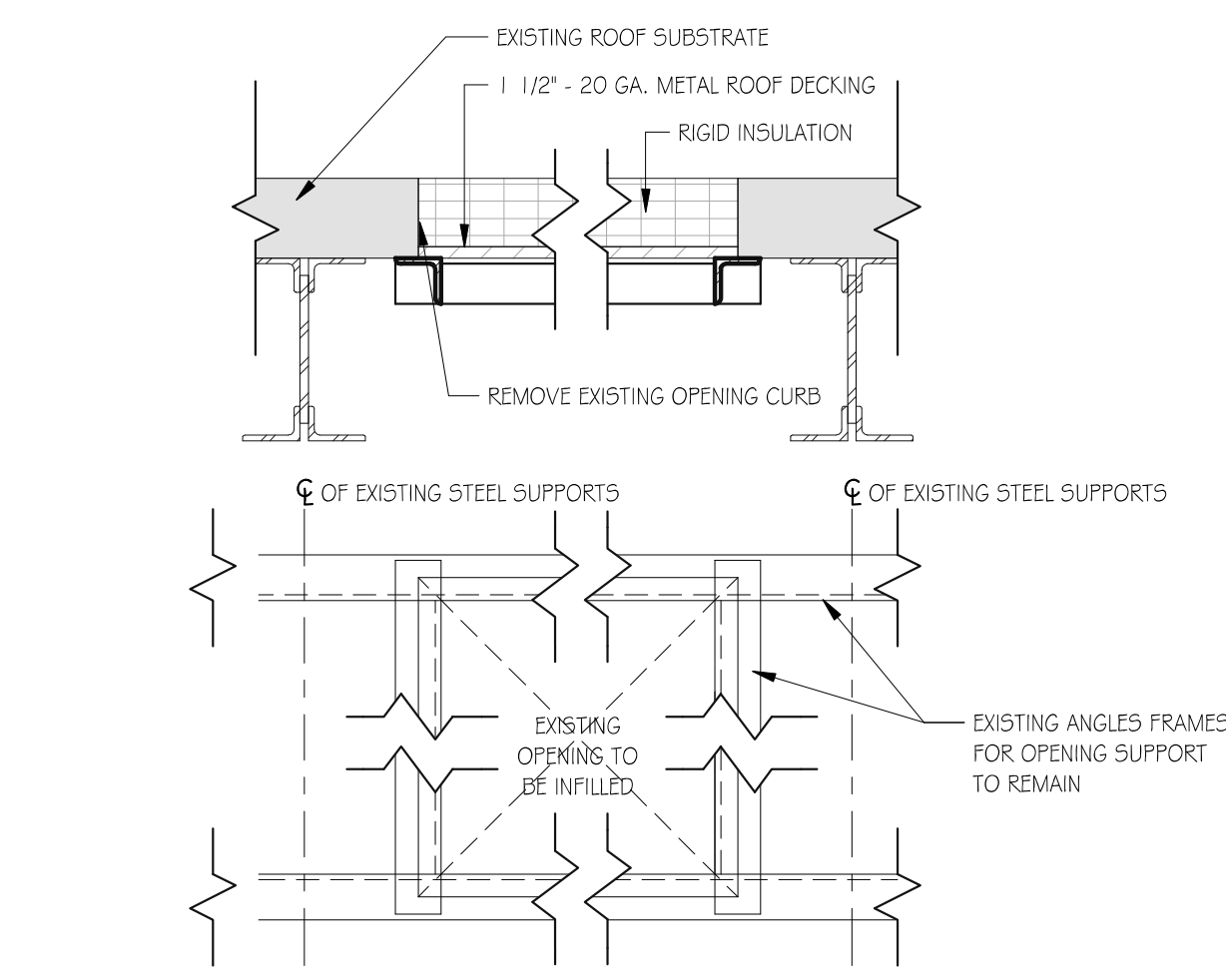
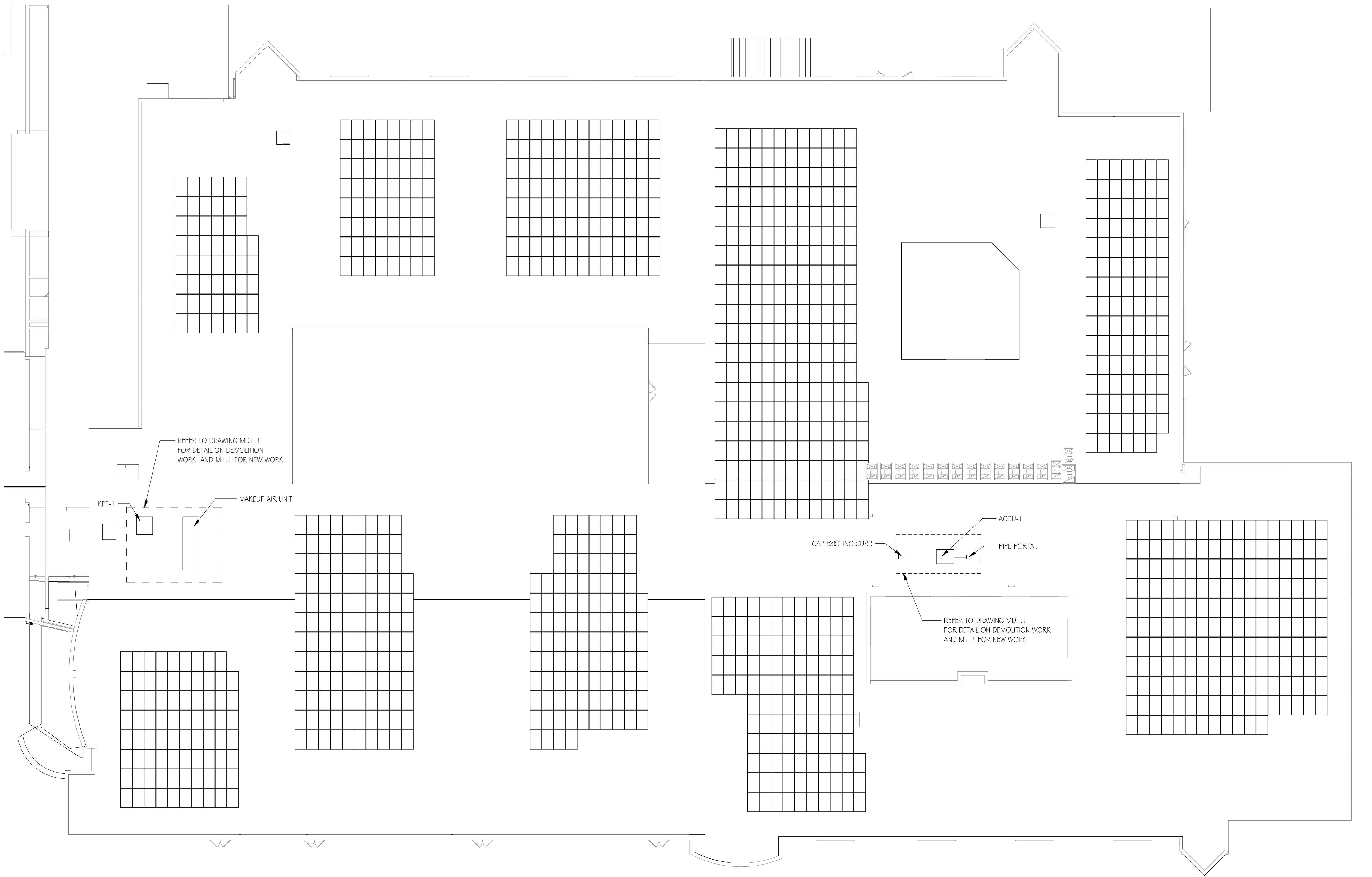
3/4" = 1'-0"

1/2" = 1'-0"

1/4" = 1'-0"

1/8" = 1'-0"

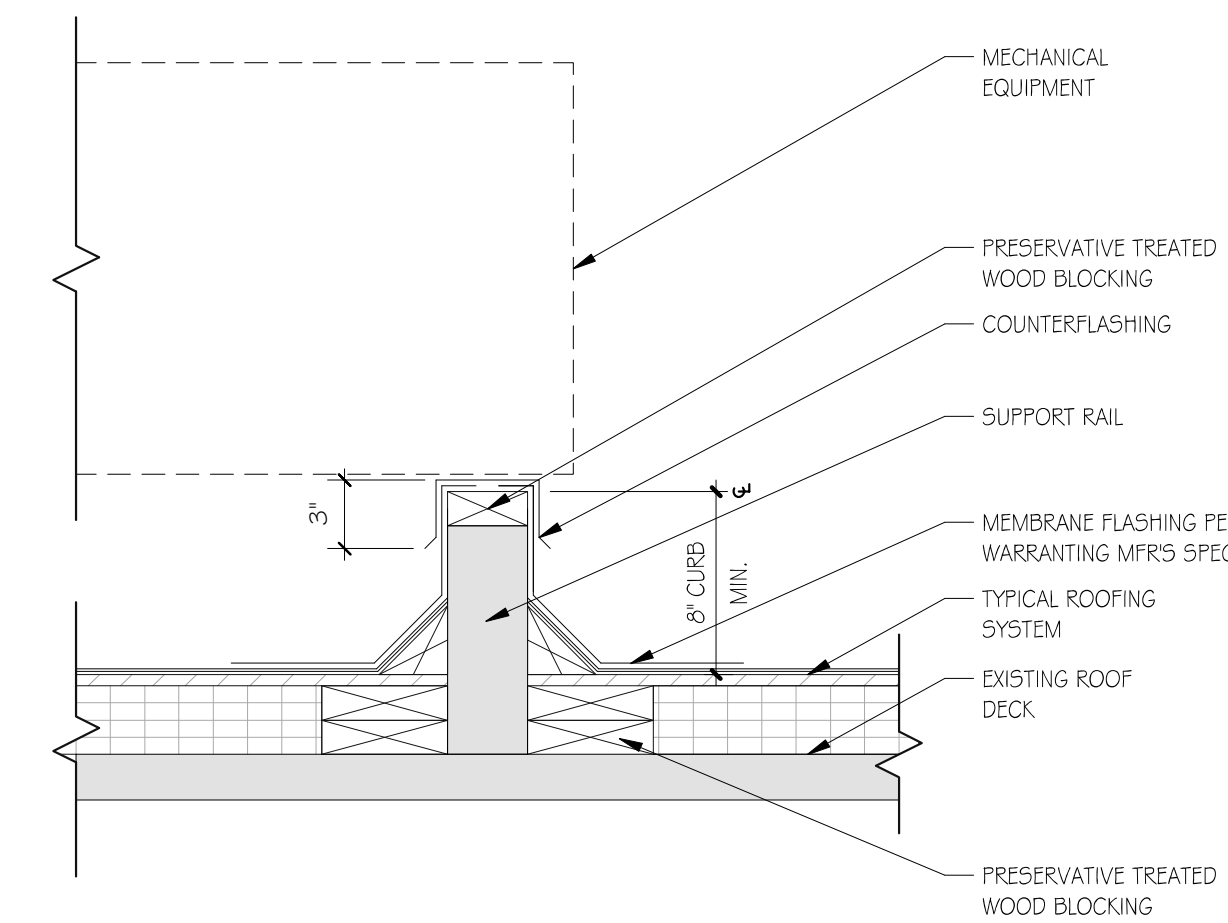
1/16" = 1'-0"



1. PROVIDE 1 1/2" TYPE 19" (WIDE RIB) METAL ROOF DECK (GALV.) INFILL AND INSULATION TO MATCH EXISTING ROOF ELEVATION AT EXISTING OPENING. PROVIDE MINIMUM 2" BEARING FOR NEW DECK.
2. METAL ROOF DECK TO SPAN SHORT DIRECTION OF OPENING. FOR DECK SPANS ≤ 6'-0", USE 20 GA. METAL ROOF DECK. FOR DECK SPANS 6'-0" - 8'-0" MAX., USE 16 GA. METAL ROOF DECK.
3. PROVIDE 5/8" PUDDLE WELDS OR POWDER ACTUATED FASTENERS AT EACH DECK FLUTE.
4. IF EXISTING CONDITIONS DIFFER FROM THOSE ON PLAN CONTACT ARCHITECT.
5. AT LOCATIONS WITH LIGHTWEIGHT CONCRETE ON EXISTING METAL DECK, PROVIDE INSULATION ON METAL DECK TO MATCH EXISTING ASSEMBLY THICKNESS.
6. G.C. IS RESPONSIBLE FOR DETERMINING THE EXISTING DECKING AND STRUCTURAL SYSTEM AS IT DIFFERS AT EACH LOCATION.
7. VERIFY CONDITION OF ALL EXISTING CEILING MATERIALS UNDER THE OPENINGS TO BE INFILLED; REPAIR AND/OR MODIFY AS REQUIRED TO MATCH ADJACENT CEILING FINISH.

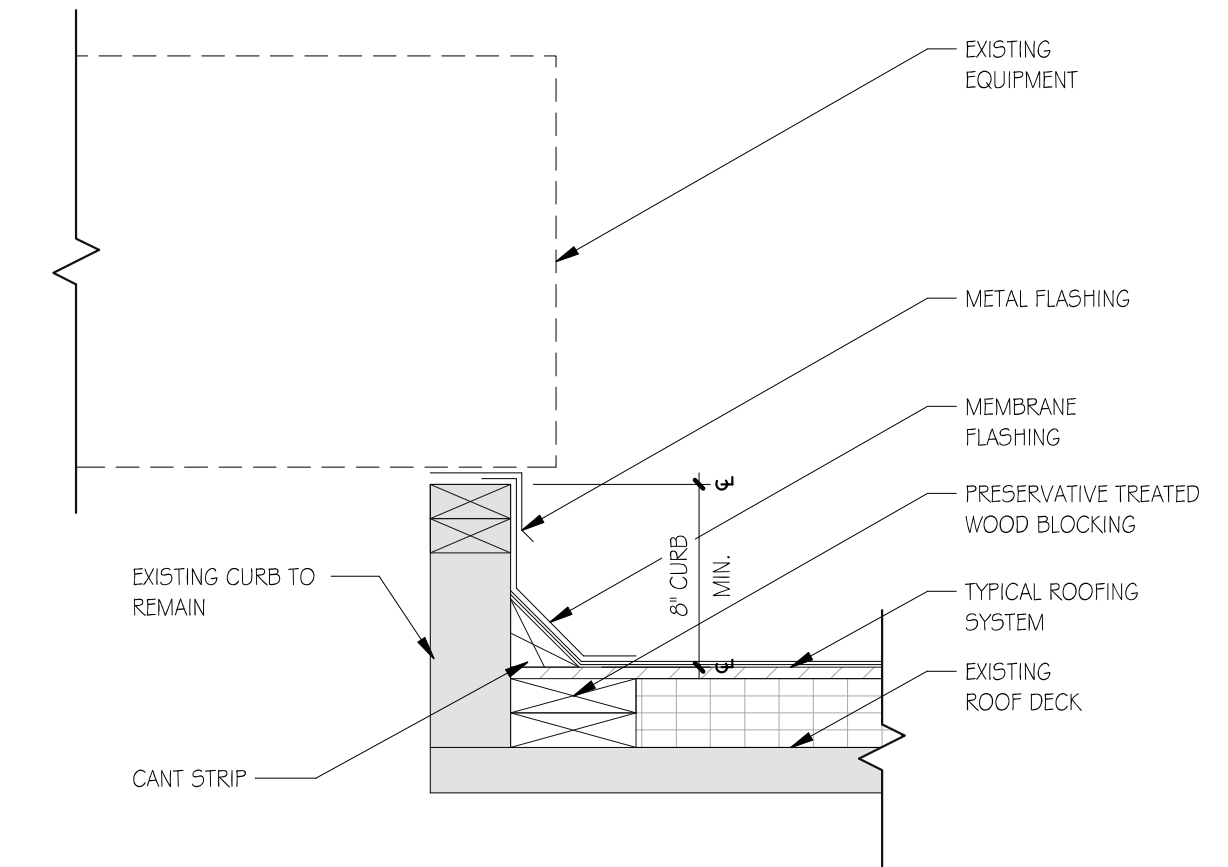
4. TYPICAL DECK OPENING INFILL DETAIL

1/2" = 1'-0"



3. TYPICAL EQUIPMENT RAIL DETAIL

1/2" = 1'-0"



2. TYPICAL EQUIPMENT CURB DETAIL

1/2" = 1'-0"

CODE REVIEW:

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1395 YARDVILLE HAMILTON SQUARE ROAD
SUITE 2A
HAMILTON, NJ 08651
Phone: 609-695-7400

SIGNATURE:
THOMAS S. PERINO 2/AD/1505400
SCOTT F. DOWNE 2/AD/1674603
STEVEN LEONE 2/AD/170100
STEVEN S. RESEL 2/AD/1644003
SPIEZE ARCHITECTURAL GROUP, INC. 2/AC00063000

SEAL:

CONSULTANTS:

BID SET 09-24-20

PROJECT:
KITCHEN AND OFFICE
RENOVATIONS AT
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BRIGANTINE, NJ 08203
FOR
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301 EAST EVANS BLVD.,
BRIGANTINE, NJ 08203

FOR CODE REVIEW: DDMMYYYY

REVISIONS:		
△	REVISION NAME	DATE

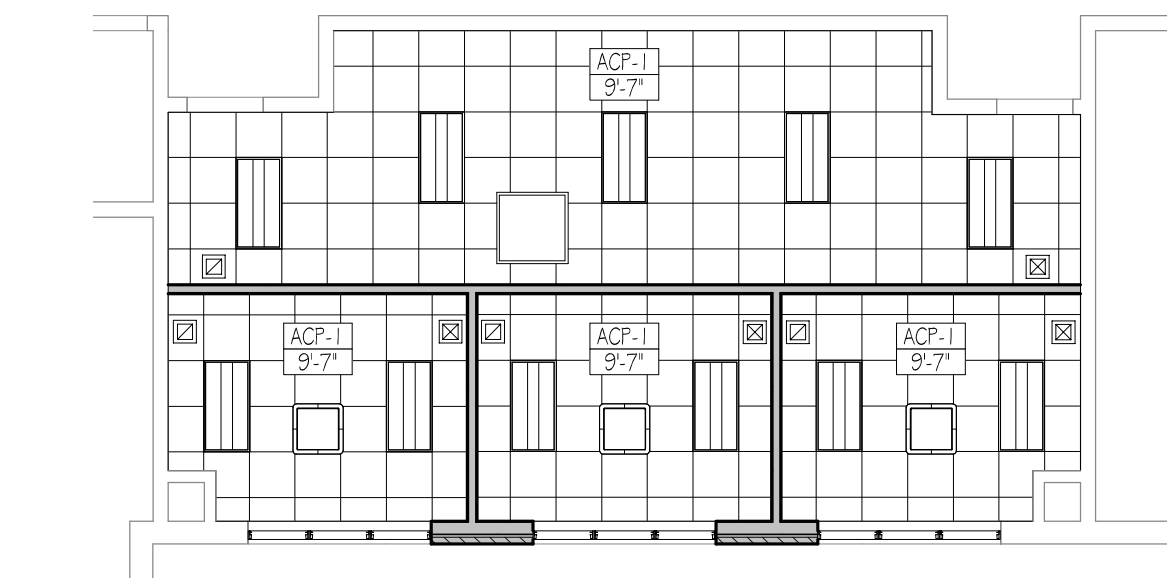
FOR BID: 09/24/20

DRAWING TITLE:
ROOF PLANS AND
DETAILS

COMMISSION NUMBER:
20K009
AGENCY NUMBERS:
01-0570-300-20-2000
01-0570-300-21-1000
DO NOT SCALE THE DRAWINGS

DRAWING
NUMBER:
A3.1

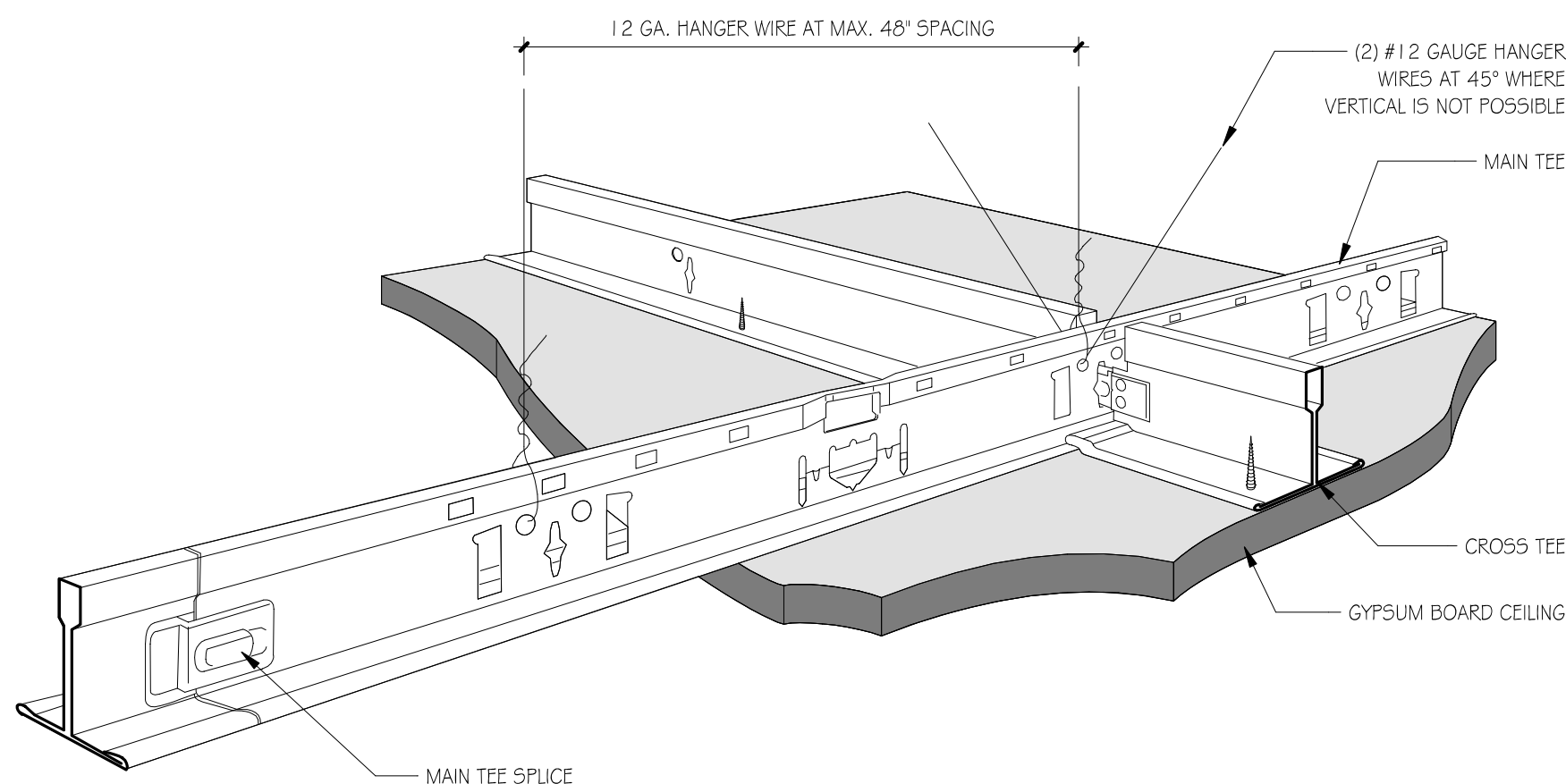
1' = 1'-0"
3' = 1'-0"
1 1/2' = 1'-0"
1' = 1'-0"
3/4" = 1'-0"
1/2" = 1'-0"
1/4" = 1'-0"
1/8" = 1'-0"
1/16" = 1'-0"



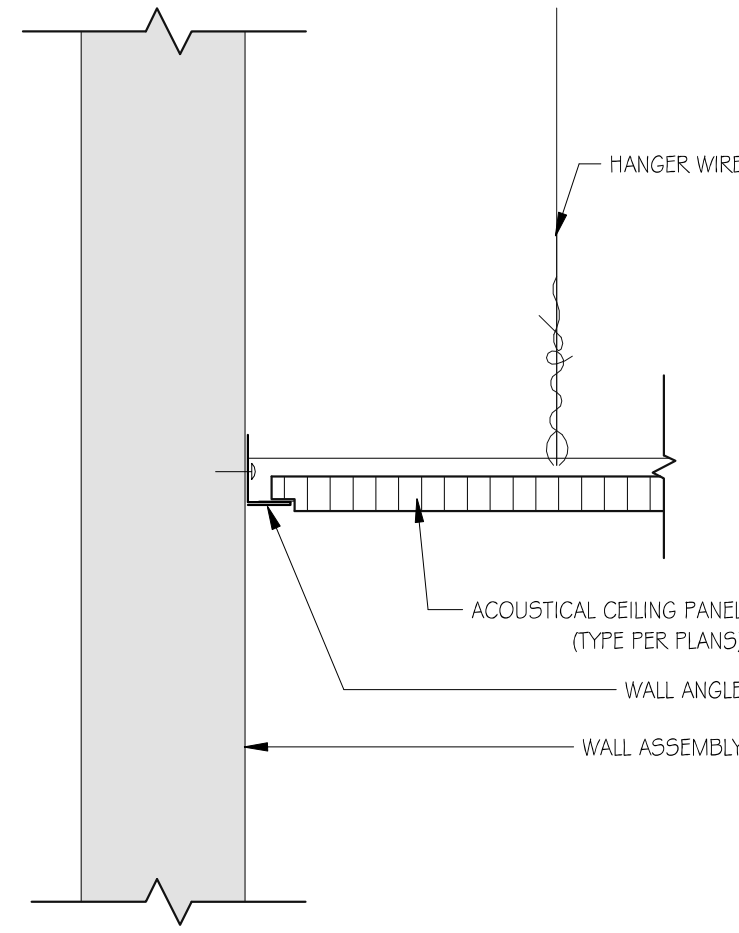
1 PARTIAL SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



2 PARTIAL FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

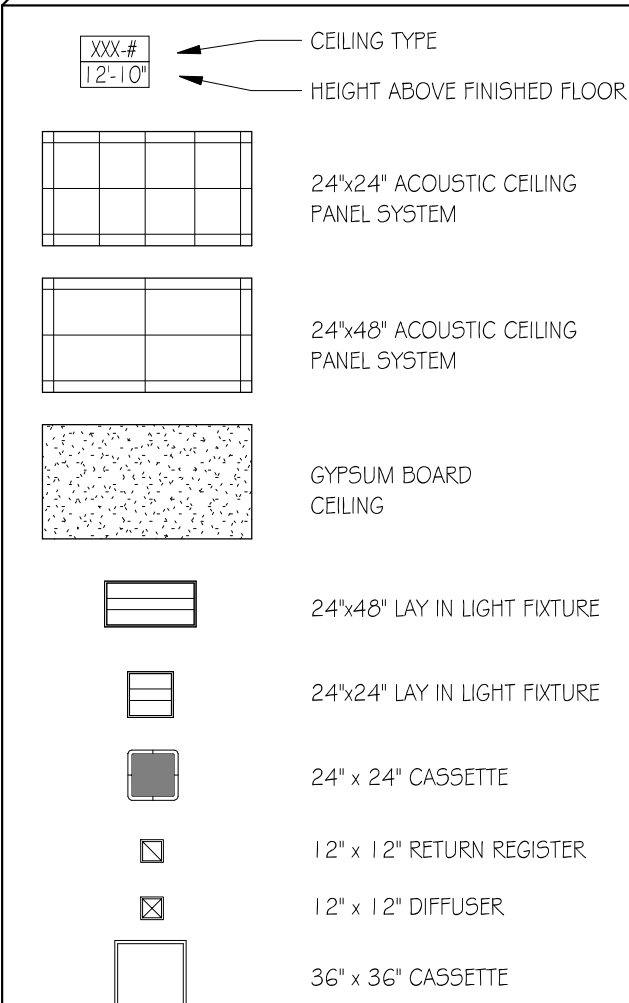


3 TYPICAL SUSPENDED CEILING DETAIL
3" = 1'-0"



4 EDGE DETAIL AT ACOUSTIC CEILING PANEL
3" = 1'-0"

CEILING LEGEND



- NOTES:
- INCLUSION OF SYMBOL IN LEGEND DOES NOT IMPLY SCOPE OF WORK. REFER TO PLANS.
 - CONTRACTORS SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF FIXTURES AND OTHER CEILING DEVICES.
 - REFER TO MEP DRAWINGS FOR SIZES, TYPES, QUANTITIES AND INSTALLATION REQUIREMENTS OF FIXTURES AND CEILING DEVICES.
 - WHERE CEILING HEIGHTS ARE BELOW WINDOW HEADS THE CONTRACTOR SHALL PROVIDE FASCIA MOLDING OR TRIM TO MATCH SIZE AND COLOR OF CEILING TRIM.
 - COORDINATE ALL AUDIO AND VISUAL DEVICES WITH AV DRAWINGS. AV EQUIPMENT SHOWN HERE, INCLUDING PROJECTORS AND PROJECTION SCREENS ARE DIAGRAMMATIC AND ARE SHOWN HERE TO DEPICT ADJACENCIES WITH OTHER LIGHTING AND CEILING DEVICES.

CEILING TYPE SCHEDULE

TYPE MARK	DESCRIPTION
ACP-1	ACOUSTIC CEILING PANEL SYSTEM 24"x24"
ACP-2	ACOUSTIC CEILING PANEL CEILING 24"x48"
GBC-1	GYPSUM BOARD CEILING

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SIGNATURE:
THOMAS S. PERRINO
SCOTT F. DOWNE
STEVEN LEONE
STEVEN S. BIESEL
SPIEZLE ARCHITECTURAL GROUP, INC.

21A01052400
21A01674600
21A01170100
21A01544000
21AC00063000

SEAL:

CONSULTANTS:

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PROJECT:

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301 EAST EVANS BLVD.,
BRIGANTINE, NJ 08203

FOR CODE REVIEW: DDMMYYYY

REVISIONS:

REVISION NAME	DATE
---------------	------

FOR BID: 09/24/20

DRAWING TITLE:

REFLECTED CEILING
PLANS AND DETAILS

COMMISSION NUMBER:
20K009

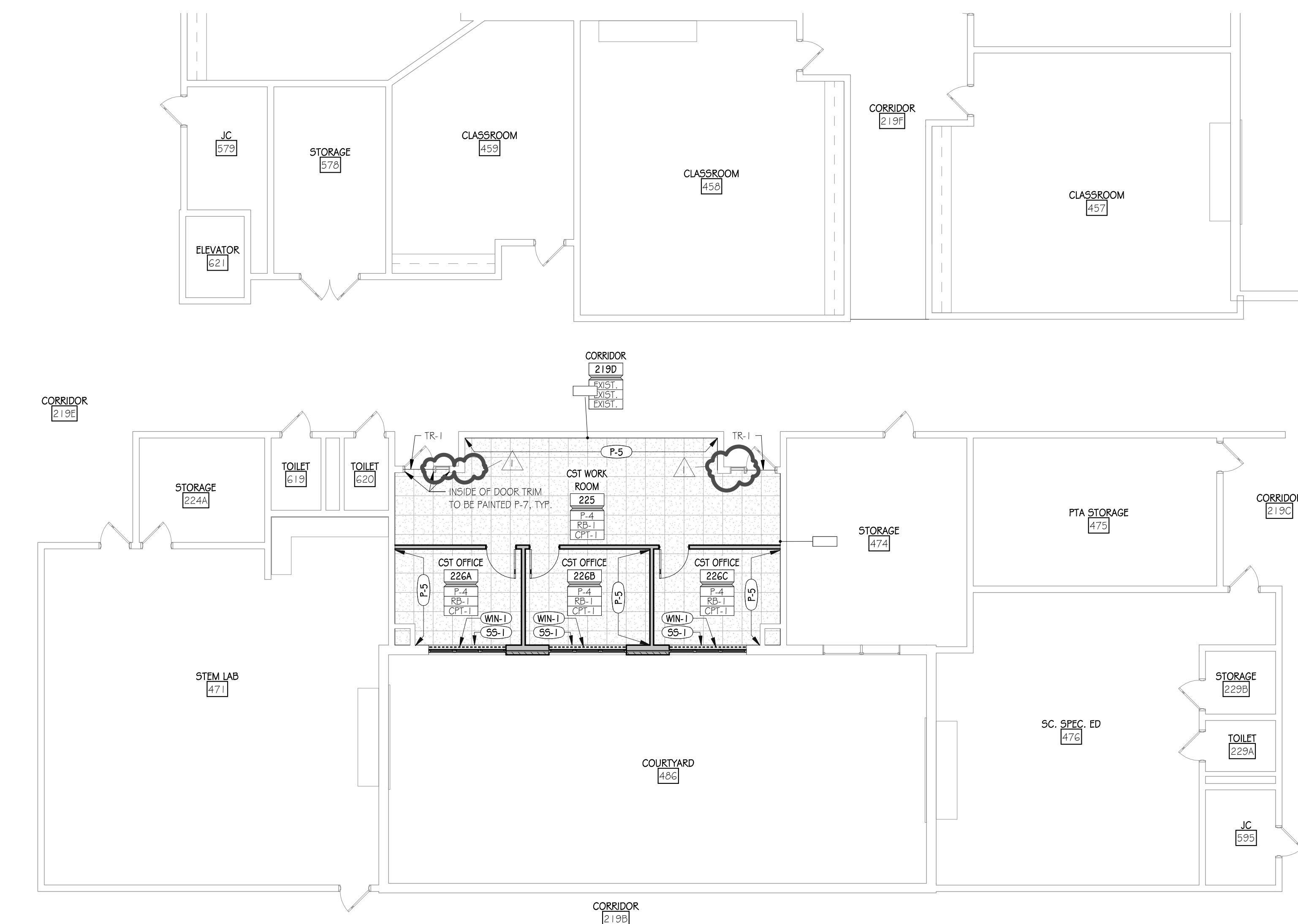
AGENCY NUMBERS:
01-0570-300-20-2000
01-0570-300-21-1000

DO NOT SCALE THE DRAWINGS

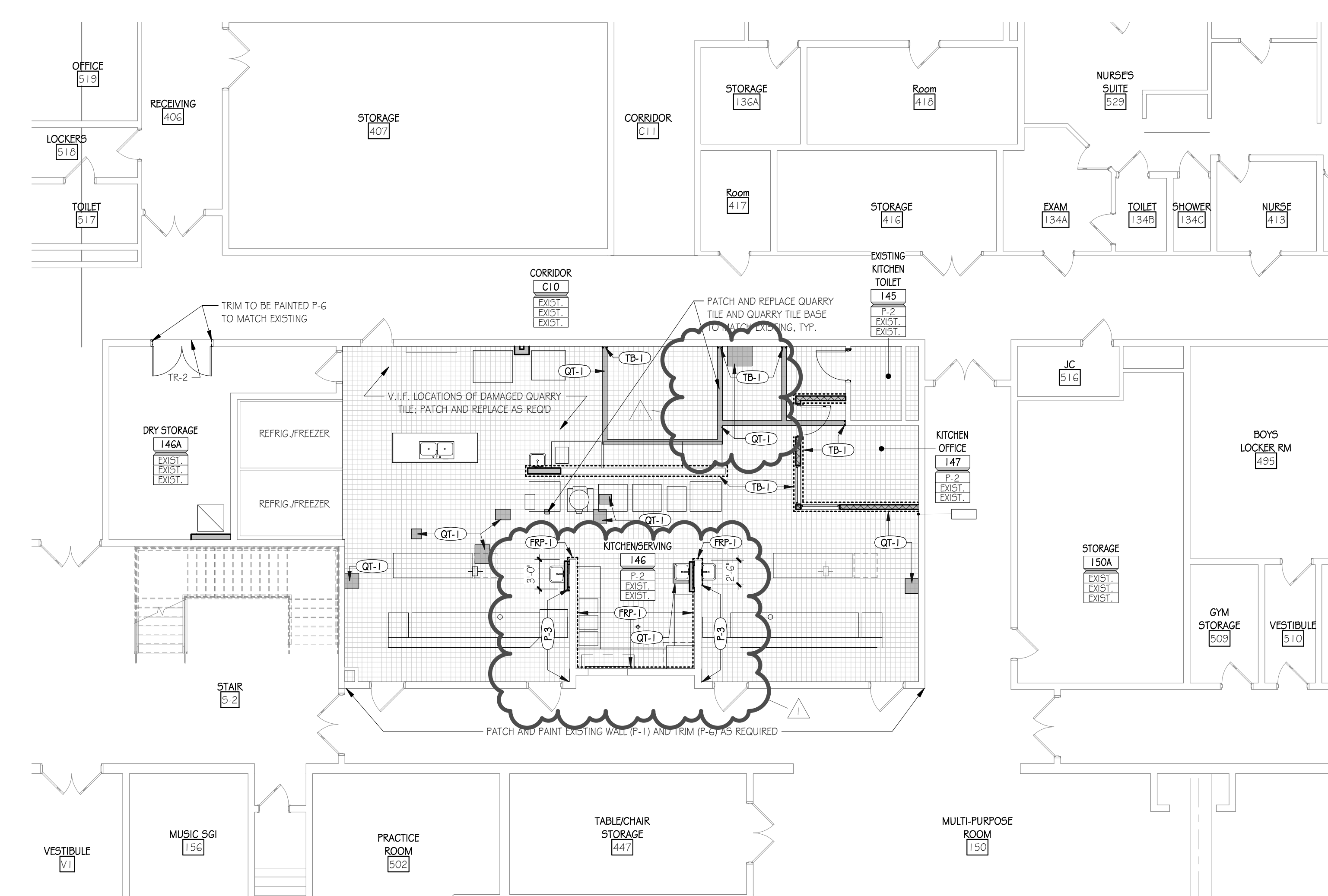
DRAWING NUMBER:

A4.1

1"=1'-0"
1/2"=1'-0"
1/4"=1'-0"
3/4"=1'-0"
1/8"=1'-0"
1/16"=1'-0"

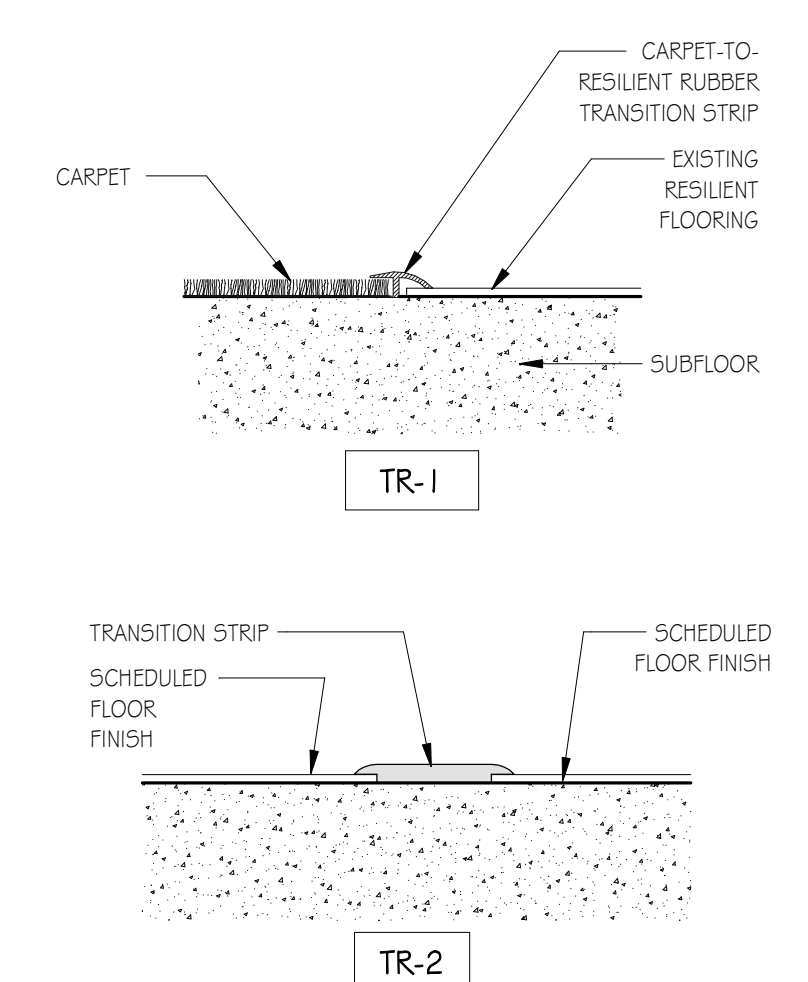


2 PARTIAL SECOND FLOOR FINISH PLAN
1/8" = 1'-0"



1 PARTIAL FIRST FLOOR FINISH PLAN - E5
1/8" = 1'-0"

INTERIOR FINISH LEGEND			
BASE		P-6	
DESCRIPTION:	RUBBER BASE	DESCRIPTION:	TRIM PAINT - MATCH EXISTING
MANUFACTURER:	KOPPE	FINISH:	SEMI-GLOSS
STYLE:	FINNACLE TRADITIONAL TOE	DESCRIPTION:	TRIM PAINT - NEW WORK
COLOR:	BLACK	MANUFACTURER:	SHERWIN WILLIAMS
SIZE:	4" X 1/2" COILS	COLOR NAME:	LOYAL BLUE
		COLOR NUMBER:	SW 6510
		FINISH:	SEMI-GLOSS
RB-1		P-7	
DESCRIPTION:	TILE BASE	DESCRIPTION:	CEILING PAINT
MANUFACTURER:	DALTILE	MANUFACTURER:	SHERWIN WILLIAMS
COLLECTION:	QUARRY TILE	COLOR NAME:	CEILING BRIGHT WHITE
STYLE:	COVE BASE Q-3565	COLOR NUMBER:	SW 7007
COLOR:	ARD FLASH 0048	FINISH:	FLAT
SIZE:	5" X 6"	CP-1	
CONTACT:	RACHAEL FERNBACH	QUARRY TILE	
CONTACT:	RACHAEL.FERNBACH@DALTILE.COM	DESCRIPTION:	QUARRY TILE
TB-1		MANUFACTURER:	DALTILE
CARPET		STYLE:	QUARRY
MANUFACTURER:	SHAW CONTRACT	COLOR:	ARD FLASH 0048
COLLECTION:	CAMPUS	DIMENSION:	6" X 6"
STYLE:	COMMONS STYLE 5T323	FINISH:	MATTE
COLOR:	INK 23486	THICKNESS:	1/2"
DIMENSIONS:	24 X 24	CONTACT:	RACHAEL FERNBACH
INSTALLATION:	QUARTER TURNED	CONTACT:	RACHAEL.FERNBACH@DALTILE.COM
CONTACT:	VICKY MCCONAGHY	SOLID SURFACE	
CONTACT:	VICKY.MCCONAGHY@SHAWINC.COM	DESCRIPTION:	WINDOW STOOLS @ OFFICES
PAINT		MANUFACTURER:	CORIAN
DESCRIPTION:	WALL PAINT - MATCH EXISTING	COLOR NAME:	TBD - PRICE GROUP C
FINISH:	MATCH EXISTING	COLOR NUMBER:	TBD
P-1		WALL PANELS	
DESCRIPTION:	WALL PAINT - KITCHEN	DESCRIPTION:	FIBERGLASS REINFORCED PANELS
MANUFACTURER:	BENJAMIN MOORE	MANUFACTURER:	MARLITE
COLOR NAME:	ANTIQUE WHITE	STYLE:	STANDARD FRP
COLOR NUMBER:	BM 909	COLOR:	3100 WHITE
FINISH:	SEMI-GLOSS	FINISH:	SMOOTH SURFACE
P-2		SIZE:	4' X 8' X 3/32"
DESCRIPTION:	ACCENT PAINT - KITCHEN	TRIM:	PVC
COLOR NAME:	SHERWIN WILLIAMS	WINDOW TREATMENT	
COLOR NUMBER:	SW 6510	MANUFACTURER:	DRAPER
FINISH:	SEMI-GLOSS	STYLE:	SHERWEEVE SERIES
P-3		COLOR:	PW4400 BY PHIFER
DESCRIPTION:	WALL PAINT - OFFICES	COLOR:	TBD
MANUFACTURER:	BENJAMIN MOORE	WIN-1	
COLOR NAME:	ANTIQUE WHITE	DESCRIPTION:	ACCENT PAINT - OFFICES
COLOR NUMBER:	BM 909	MANUFACTURER:	BENJAMIN MOORE
FINISH:	EGGSHELL	COLOR NAME:	CAFE MAY COBBLESTONE
P-4		COLOR NUMBER:	BM 1474
DESCRIPTION:	ACCENT PAINT - OFFICES	FINISH:	EGGSHELL
MANUFACTURER:	BENJAMIN MOORE		
COLOR NAME:	CAFE MAY COBBLESTONE		
COLOR NUMBER:	BM 1474		
FINISH:	EGGSHELL		



3 FLOORING TRANSITION DETAILS
3" = 1'-0"

GENERAL FINISH NOTES:

FINISH TAG
FINISH SEPARATION TAG
INDICATES EXTENT OF INDICATED FINISH
SPAN DIRECTION OF SHEET OR BROAD LOOM PRODUCTS

ROOM FINISH TAG
ROOM NAME
ROOM NUMBER
TYPICAL WALL FINISH
BASE FINISH
FLOOR FINISH

- NOTES PERTAIN TO AREAS WITHIN THIS SCOPE OF WORK ONLY.
- CONTACT INTERIOR DESIGNER/ARCHITECT FOR CLARIFICATION IN THE EVENT OF CONTRADICTORY INFORMATION BETWEEN DRAWINGS, LEGEND AND/OR SPECIFICATIONS OR IF COLOR AND/OR FINISH IS NOT SPECIFIED.
- REFER TO FINISH LEGEND AND PLAN FOR GENERAL FINISHES.
- REFER TO ALL INTERIOR FINISH NOTES AND INTERIOR DRAWINGS (INCLUDING PLANS, ELEVATIONS AND DETAILS) FOR COMPLETE INTERIORS INFORMATION.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING PRODUCT LEAD TIMES TO ENSURE DELIVERY THAT MEETS THE PROJECT SCHEDULE.
- THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL SITE CONDITIONS AND CONFIRM QUANTITIES PRIOR TO ORDERING PRODUCTS. IN THE EVENT OF CONTRADICTORY INFORMATION CONTACT THE INTERIOR DESIGNER/ARCHITECT FOR CLARIFICATION PRIOR TO ORDERING.
- ALL MATERIALS SHALL BE INSTALLED USING MANUFACTURERS RECOMMENDED INSTALLATION METHODS AND ADHESIVES.
- WARRANTY INFORMATION AND INSTRUCTIONS OF MAINTENANCE ON ALL FINISH MATERIALS SHALL BE PROVIDED TO THE OWNER AND INCLUDED IN THE GLOSEOUT WARRANTY AND MAINTENANCE MANUAL.
- THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SAMPLES OF ALL FINISHES SPECIFIED TO INTERIOR DESIGNER/ARCHITECT FOR APPROVAL PRIOR TO ORDERING MATERIAL.
- ALL SUBSTRATE SURFACES ARE TO BE PROPERLY PREPARED TO RECEIVE FINISH MATERIALS. SUBCONTRACTOR IS NOT TO APPLY FINISHES UNTIL SUBSTRATE IS PREPARED PER MANUFACTURERS WRITTEN INSTRUCTIONS FOR ALL INSTALLATIONS OR APPLICATIONS.
- PAINT GRILLES, WALL DIFFUSERS, ELECTRICAL PANELS, WALL MOUNTED BOXES, ACCESS PANELS, ETC., WHICH ARE EXPOSED IN FINISHED SPACES TO MATCH THE SURFACE ON WHICH THEY OCCUR IF THE ITEM IS ON-A-WALL COVERED WALL. PROVIDE A CUSTOM PAINT COLOR USED TO MATCH. SUBMIT TO INTERIOR DESIGNER/ARCHITECT FOR APPROVAL.
- ALL DIRECTIONAL LAMINATES SHOULD RUN WITH THE VERTICAL GRAIN PATTERN UNON.
- ALL WALL PAINT TO BE EGGSHELL FINISH UNON.
- ALL METAL AND PAINTED TRIM TO BE SEMI-GLOSS ENAMEL FINISH UNON.
- ALL VINYL/RUBBER BASE TO BE ROLLED GOODS, NOT LINEAR 4" LENGTHS, UNON.
- FINISHES INDICATED ON "ROOM FINISH TAG" ARE INCLUSIVE OF ALL RESPECTIVE SURFACES IN ROOM (UNLESS OTHERWISE NOTED) WHETHER OR NOT INDICATED ON PLANS OR ELEVATIONS.

FLOOR FINISH NOTES:

- PROVIDE SHOP DRAWING LAYOUT SHOWING ALL FLOOR PATTERN LOCATIONS, GRAIN DIRECTION AND SEAMING DIAGRAMS.
- INSTALL DIRECTIONAL FLOORING ORIENTED AS SPECIFIED IN THE FINISH PLAN.
- REFERENCE MANUFACTURERS INSTALLATION SPECIFICATIONS FOR EACH FLOOR FINISH TYPE TO VERIFY REQUIREMENTS.
- ALIGN TRANSITION OF FLOOR MATERIAL WITH CENTER OF HINGE IN DOORWAY UNON.
- IN A WALL OPENING WITHOUT HINGES REFER TO FINISH PLANS FOR TRANSITION LOCATION OF WRAPPED MATERIALS.
- FLASH PATCH THE FLOOR AT TRANSITION OF ALL MATERIALS, PROVIDE TRANSITION STRIPS AS NECESSARY. SUBMIT TRANSITIONS TO INTERIOR DESIGNER/ARCHITECT FOR APPROVAL. ALL FLOORING TRANSITIONS MUST ADHERE TO THE AMERICANS WITH DISABILITIES ACT.

CEILING NOTES:

- ALL NEW GWB CEILING(S)/OFFITS TO BE PAINTED CP-1 UNLESS OTHERWISE NOTED.

CODE REVIEW:

CERTIFICATE:

spieze

SPIEZE ARCHITECTURAL GROUP INC.
1395 YARDVILLE HAMILTON SQUARE ROAD
HAMILTON, NJ 08651
Phone: 609-695-7400

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STEVEN LEONE 21A01170100
STEVEN S. RESEL 21A01544000
SPIEZE ARCHITECTURAL GROUP, INC. 21AC0063000

SEAL:

CONSULTANTS:

BID SET 09-24-20

PROJECT:
KITCHEN AND OFFICE
RENOVATIONS AT
BRIGANTINE
CONSOLIDATED
SCHOOL
301 EAST EVANS BLVD.
BRIGANTINE, NJ 08203

FOR
BRIGANTINE BOARD
OF EDUCATION
301 EAST EVANS BLVD.,
BRIGANTINE, NJ 08203

FOR CODE REVIEW: DDMMYYYY

REVISIONS:

REVISION NAME	DATE
1 ADDENDUM NO. 1	10/05/20

FOR BID: 09/24/20

DRAWING TITLE:
FINISH PLANS AND
INTERIOR DETAILS

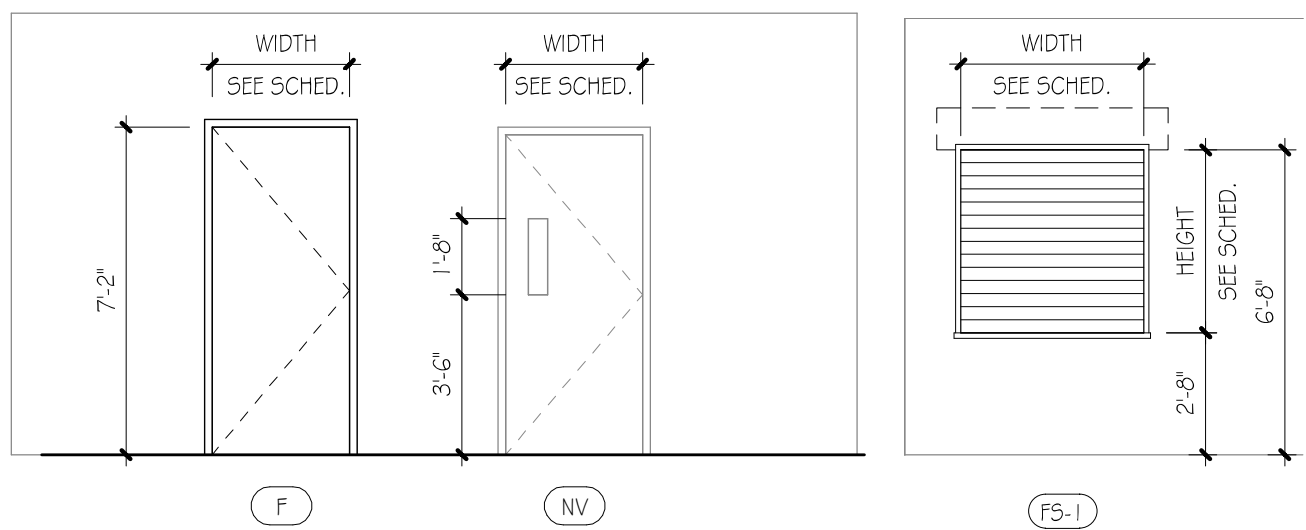
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20K009

AGENCY NUMBER:
01-0570-300-20-2000
01-0570-300-21-1000
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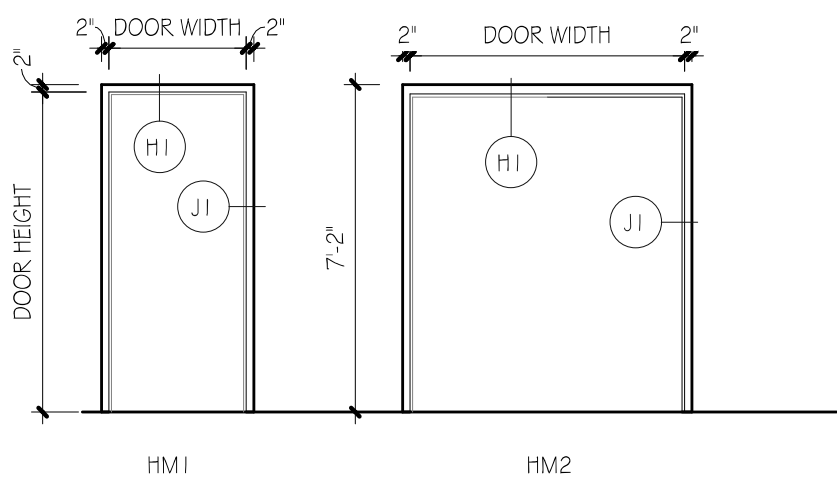
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THIS DRAWING IS FORMATTED TO BE PRINTED AT 30x42"

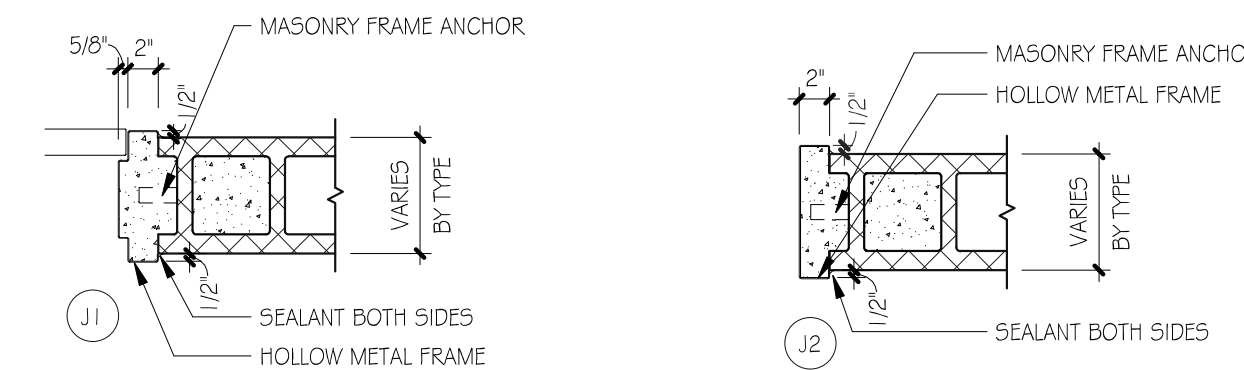
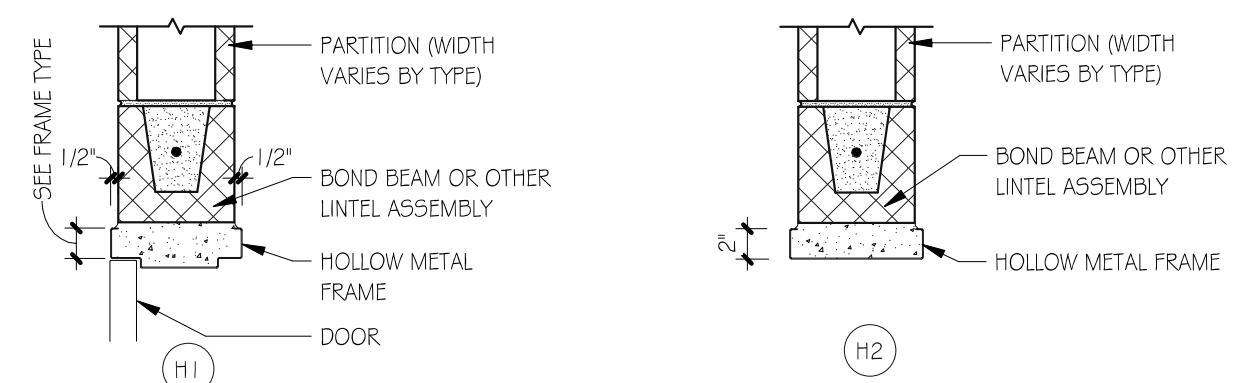
DOOR AND FRAME SCHEDULE										
MARK	LOCATION	DOOR HEIGHT	WIDTH	DOOR MATERIAL	DOOR TYPE	FRAME TYPE	RATING (MINS)	HARDWARE SET	REMARKS	
145	EXISTING KITCHEN TOILET	7'-0"	3'-0"	WD	F			3.0	SALVAGE DOOR AND REINSTALL IN EXISTING FRAME	
146A	CORRIDOR	7'-0"	6'-0"	WD	F	HM2		2.0		
147	KITCHEN OFFICE	7'-0"	3'-0"	WD	F	HM1		1.0		
225A	CST OFFICE	7'-0"	3'-0"	WD	NV	HM1		1.0		
225B	CST OFFICE	7'-0"	3'-0"	WD	NV	HM1		1.0		
225C	CST OFFICE	7'-0"	3'-0"	WD	NV	HM1		1.0		



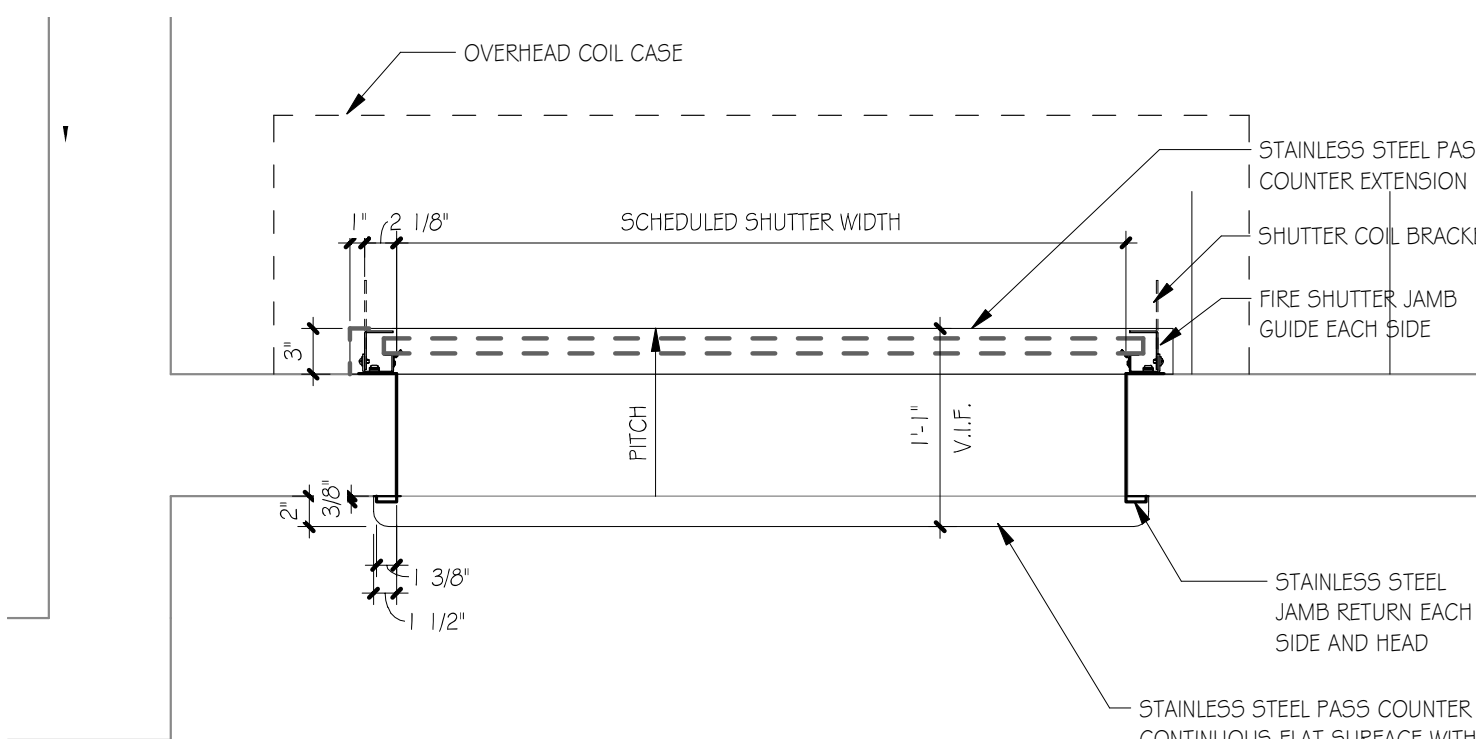
① DOOR TYPES & SHUTTER TYPE



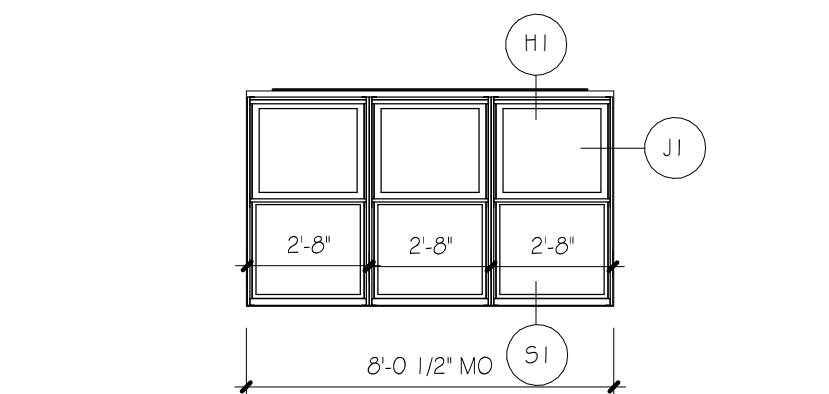
② FRAME TYPES



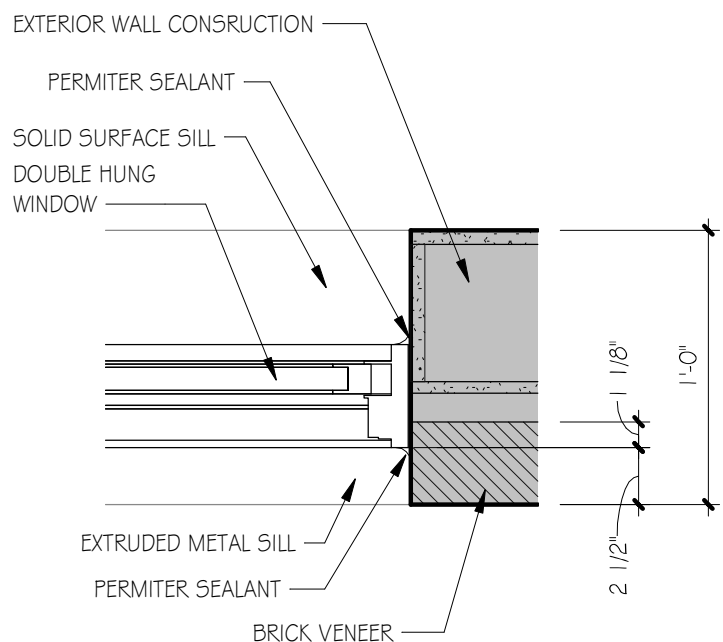
3 FRAME DETAILS



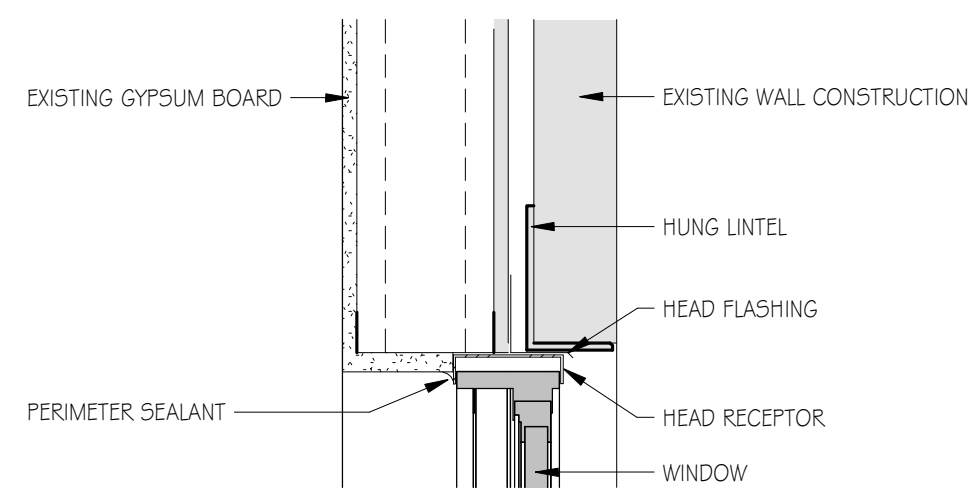
4 FIRE SHUTTER (FS-1) JAMB DETAIL
1" = 1'-0"



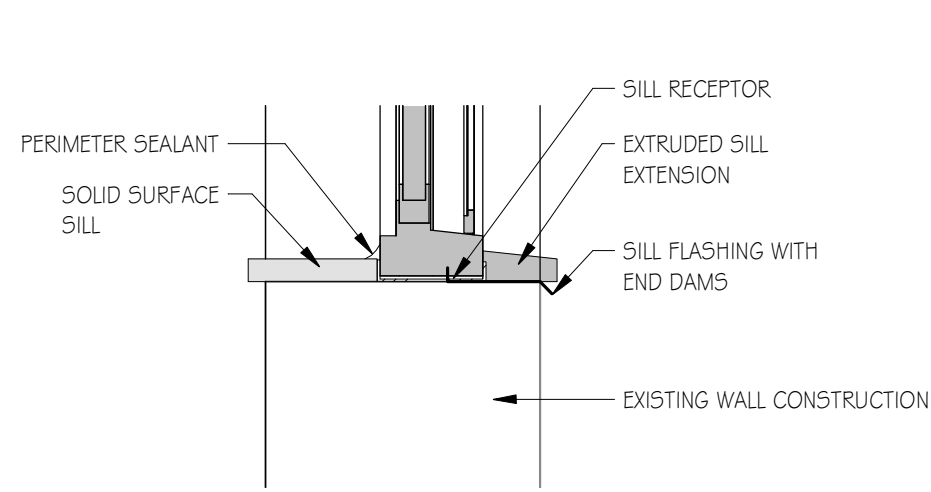
7 CST DOUBLE HUNG WINDOW TYPE ALI
1/4" = 1'-0"



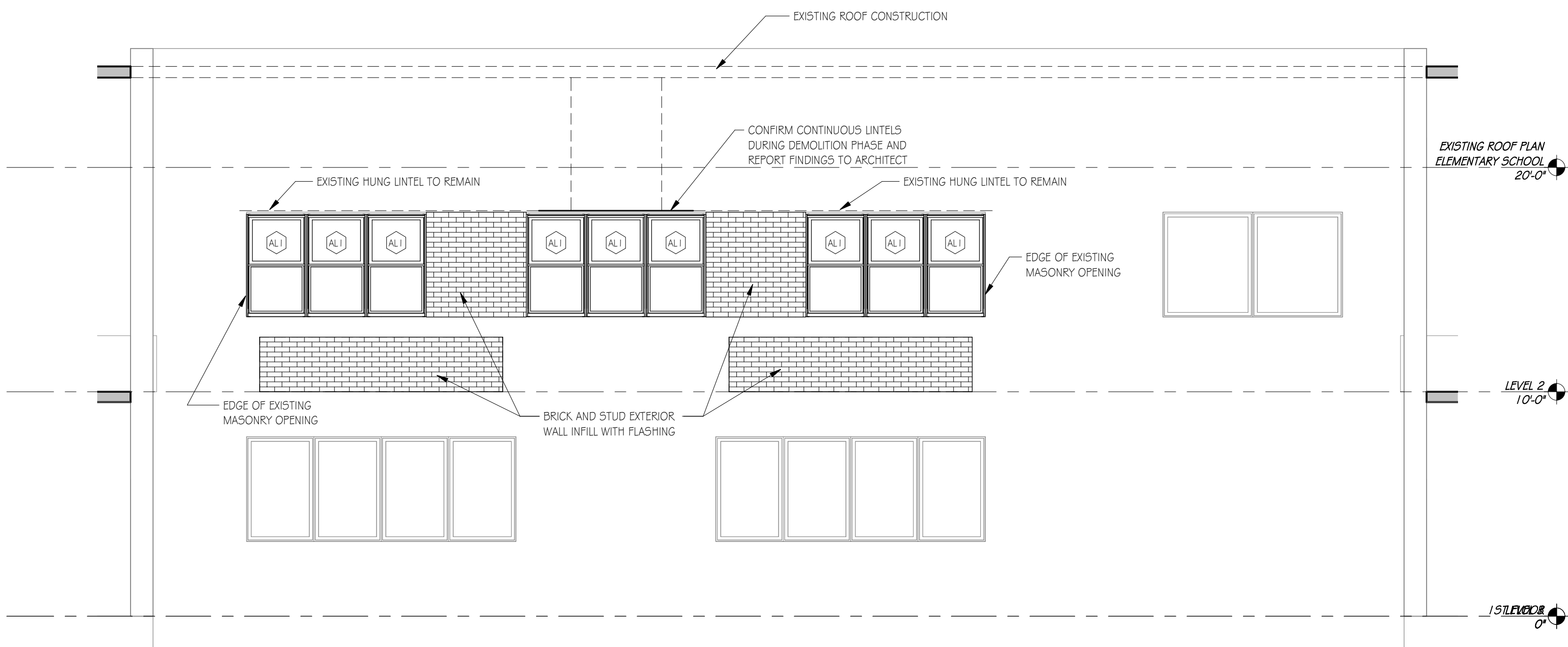
8 DH WINDOW JAMB DETAIL J I
1 1/2" = 1'-0"



9 DH WINDOW HEAD DETAIL H I
1 1/2" = 1'-0"



10 DH WINDOW SILL DETAIL S I
1 1/2" = 1'-0"



⑥ EXTERIOR WINDOW ELEVATION
1/4" = 1'-0"

DOOR AND FRAME NOTES

2. OPENING FORCE FOR FIBERION NON-DRILL DOORS SHALL BE NO GREATER THAN 5 LBS
3. OPENING FORCE OF FIRE RATED DOORS SHALL BE NO GREATER THAN 8 LBS.
4. ALL DOORS SHALL BE SELF-CLOSING AND BE PROVIDED WITH A MINIMUM 1" INSULATED GLAZING. REFER TO SPECIFICATIONS FOR GLAZING TYPES.
5. PAINT ALL DOOR SURFACE COLOR AS SELECTED BY ARCHITECT.
6. ALL DOORS SHALL BE PROVIDED WITH MATERIALS BETWEEN DISSIMILAR MATERIALS SUCH AS STEEL TO ALUMINUM.
7. SHIM ASSEMBLIES AS REQUIRED FOR FLUMB AND LEVEL. PROVIDE SEALANT AND BACKSTOP DOORS AT ALL CORNERS BETWEEN WINDOW SYSTEMS, DOOR FRAMES AND OTHER SURFACES.
8. ALUMINUM WINDOW AND ENTRANCE FRAMES SHALL NOT BE INSTALLED IN DIRECT CONTACT WITH DISSIMILAR BUILDING MATERIALS.
9. ALL DOORS SHALL BE PROVIDED WITH A MINIMUM 1" CLEARANCE OF EDGE OF DOOR AND ADJACENT WALL OR OBSTRUCTIONS ON PULL SIDE SHALL BE 1/4" MINIMUM.
10. THE MINIMUM LATCH CLEARANCE BETWEEN THE EDGE OF DOOR AND ADJACENT WALL SHALL BE 2" MINIMUM.
11. DO NOT AFFIX WALL BASE TO ALLOW METAL OR ALUMINUM FRAMES. UNLESS OTHERWISE NOTED.
12. ALL DOORS SHALL BE COORDINATE FOR INSTALLATION OF POWER, CONDUIT AND OUTLET WIRING, ETC. AT OPENINGS SCHEDULED TO RECEIVE DEVICES SUCH AS DOOR CONTROLS, CARD READERS, ELECTRIC LOCKS AND AUTOMATIC DOOR OPENERS.
13. ALL DOOR WALLS OF 12" NOMINAL THICKNESS OR LESS SHALL BE FULLY WRAPPED FRAMES.
14. ALL WALLS OF NOMINAL THICKNESS GREATER THAN 12" SHALL HAVE FRAMES WITH A 3/4" THROAT DIMENSION AND BE LOCATED ON THE EXTERIOR OR SECURE SIDE OF THE OPENING. PROVIDE DULLNESS CURVE ON THE OPPOSITE SIDE.
15. THE EXACT TYPE AND SIZES OF OPENINGS MAY VARY. REFER TO SECTION DETAILS FOR MORE SPECIFIC INFORMATION.

ABBREVIATIONS:

HM - HOLLOW METAL
WD - WOOD
AL - ALUMINUM

CODE REVIEW

CERTIFICATE:



SPIEZE ARCHITECTURAL GROUP INC.
1395 YARDVILLE HAMILTON SQUARE ROAD
SUITE 2A
HAMILTON, NJ 08691
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SPEZLE ARCHITECTURAL GROUP, INC.	21AC00063

SEAL:

CONSULTANTS

BID SET 09-24-20

PROJECT:

KITCHEN AND OFFICE
RENOVATIONS AT
BRIGANTINE
CONSOLIDATED
SCHOOL
301 EAST EVANS BLVD.
BRIGANTINE, NJ 08203

FOR
BRIGANTINE BOARD
OF EDUCATION
301 EAST EVANS BLVD.,
BRIGANTINE, NJ 08203

FOR CODE REVIEW: DD/MM/YY

REVISIONS:

	REVISION NAME	DATE
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FOR BID: 09/24/2018

DRAWING TITLE

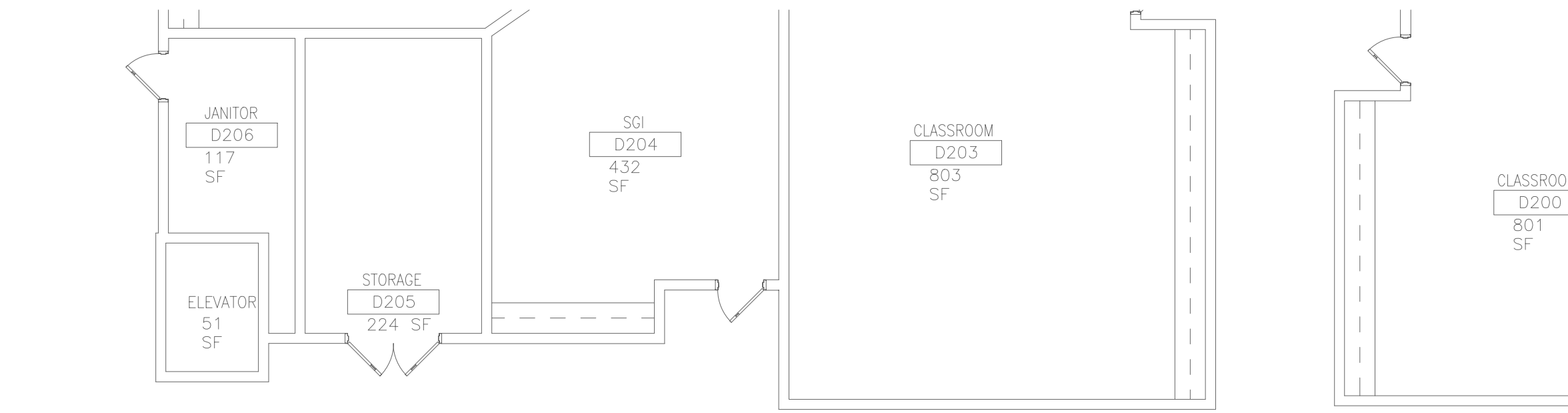
DOOR, FRAME, AND WIDOW SCHEDULES AND DETAILS

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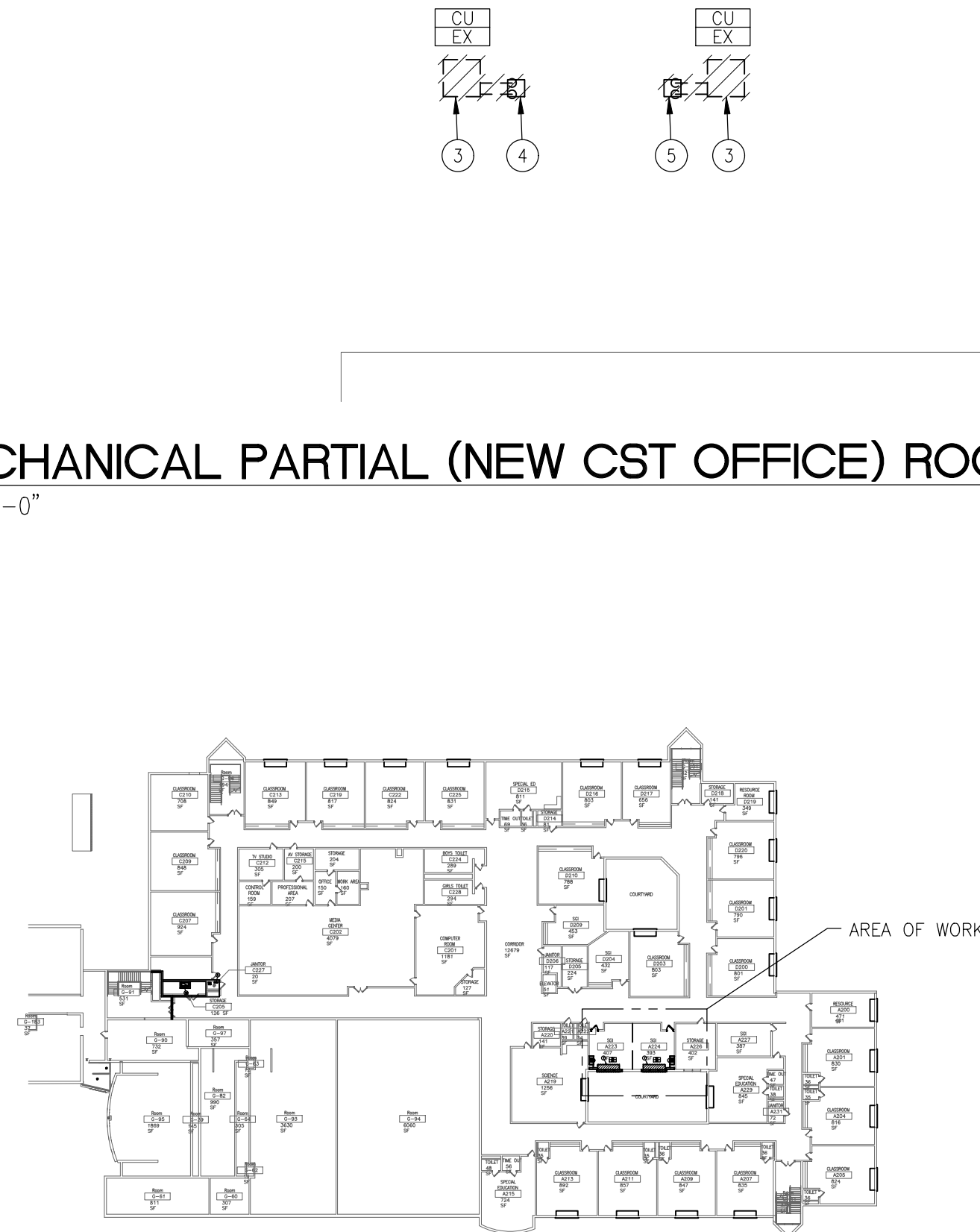
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NUMBER:

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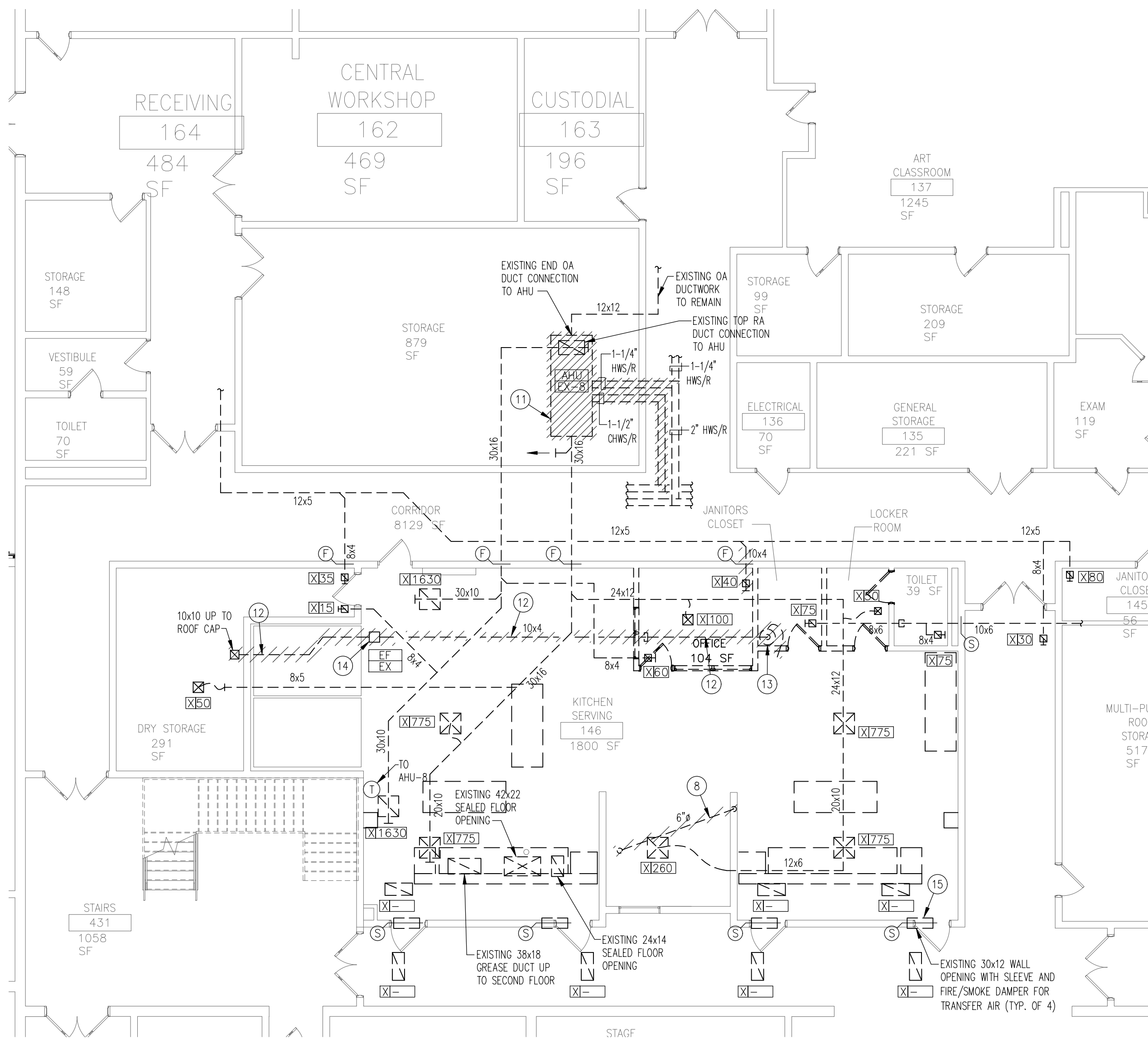


01 MECHANICAL PARTIAL (NEW CST OFFICE) SECOND FLOOR DEMOLITION PLAN
1/8"=1'-0"

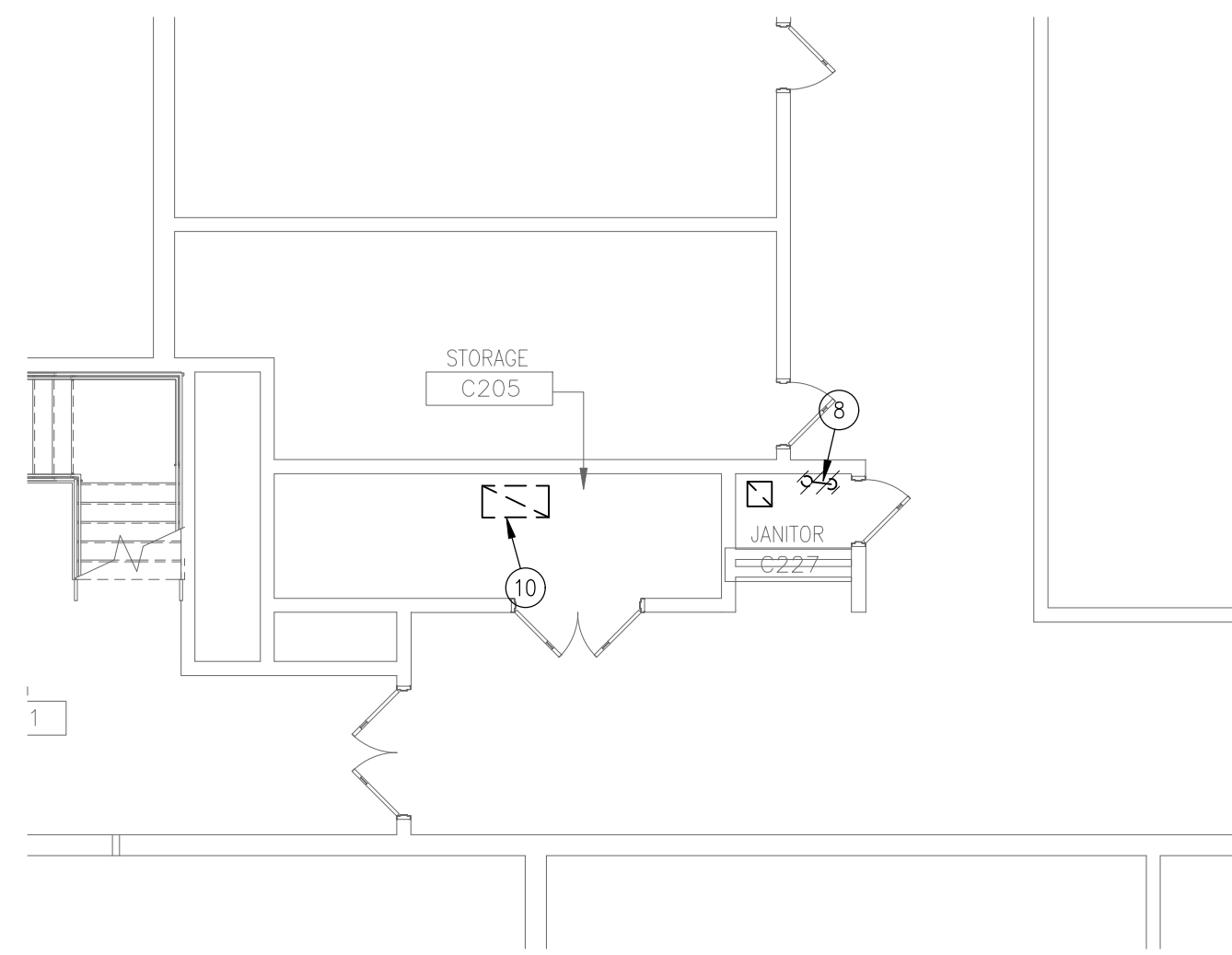


02 MECHANICAL PARTIAL (NEW CST OFFICE) SECOND FLOOR DEMOLITION PLAN
1/8"=1'-0"

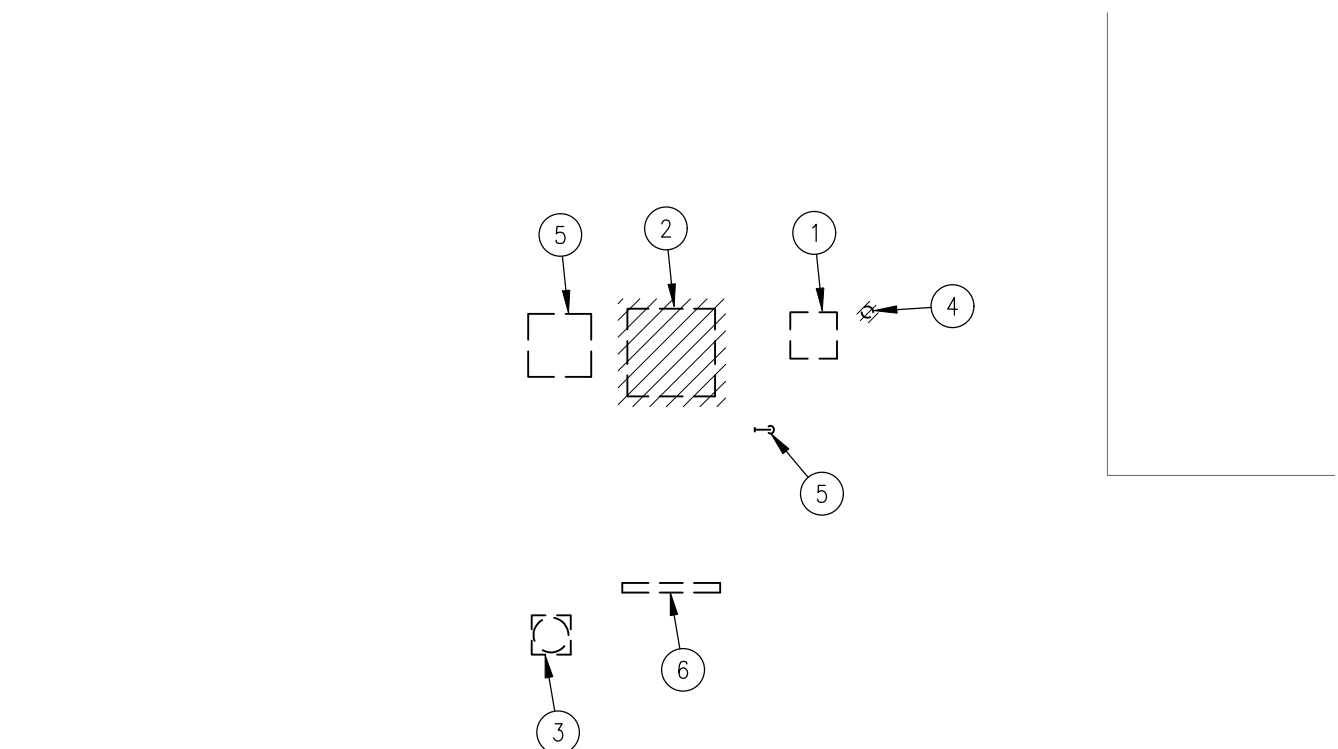
03 SECOND FLOOR (NEW CST OFFICE) KEYPLAN
1/64"=1'-0"



04 MECHANICAL PARTIAL (KITCHEN) FIRST FLOOR DEMOLITION PLAN
1/8"=1'-0"



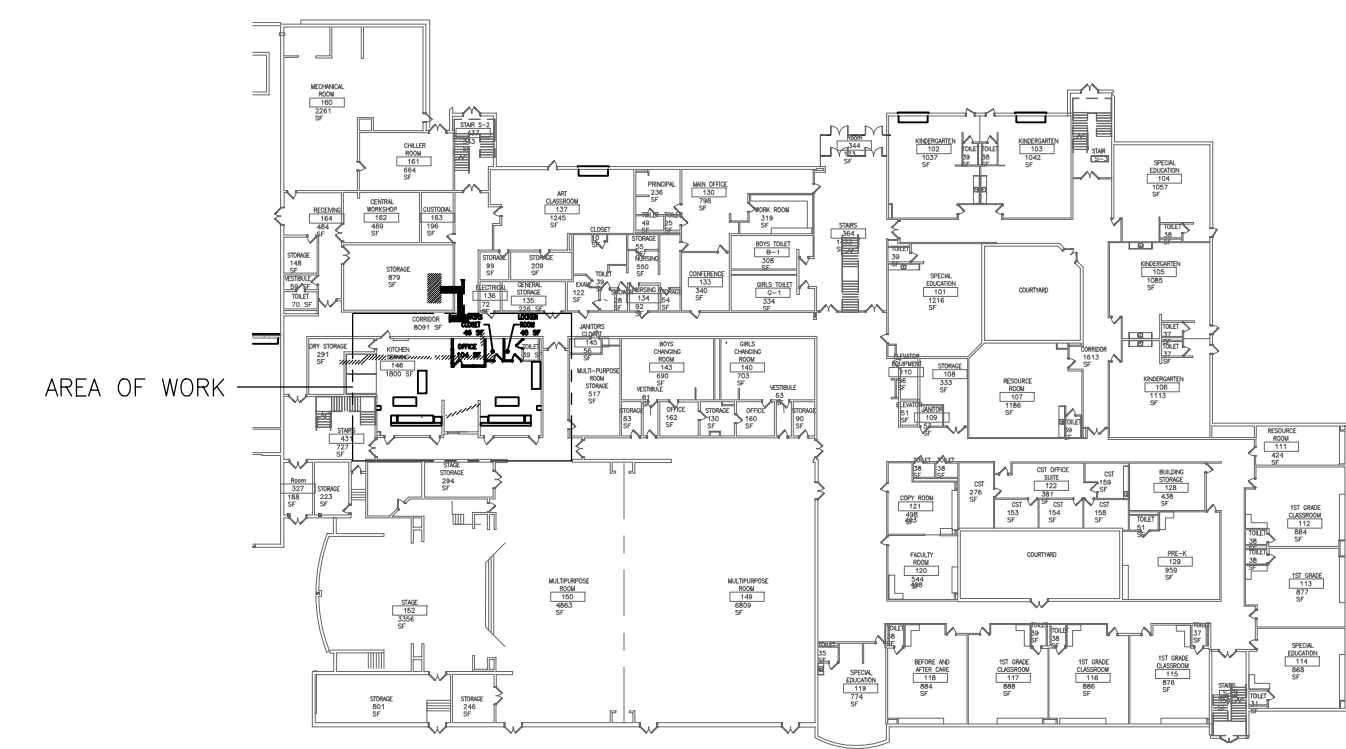
05 MECHANICAL PARTIAL (KITCHEN) SECOND FLOOR DEMOLITION PLAN
1/8"=1'-0"



06 MECHANICAL PARTIAL (KITCHEN) ROOF DEMOLITION PLAN
1/8"=1'-0"

- NEW CST OFFICE KEY NOTES
1. DEMOLISH EXISTING UNIT VENTILATOR AND ALL ASSOCIATED PIPING, CONTROLS, WIRING, ETC. DEMOLISH EXISTING EXTERIOR WALL LOUVER AND PATCH EXTERIOR WALL TO MATCH EXISTING. DEMOLISH EXISTING HOT WATER AND CONDENSATE PIPING DOWN THROUGH FLOOR, CAP PIPING IN CEILING BELOW. PATCH EXISTING 6" CORE-DRILLED FLOOR OPENING TO MATCH EXISTING. PATCH ALL EXISTING WALLS AND SURFACES TO MATCH EXISTING.
 2. DEMOLISH EXISTING SHEET METAL ENCLOSURE AND ENCLOSED PIPING. PATCH WALL TO MATCH EXISTING.
 3. DEMOLISH EXISTING ROOF MOUNTED CONDENSING UNIT AND ALL ASSOCIATED PIPING, CONTROLS, WIRING, ETC. EXISTING ROOF RAILS TO BE ABANDONED IN PLACE.
 4. CAP EXISTING REFRIGERANT PIPE CURB WITH 1/2" PLYWOOD AND CAP WITH GALVANIZED SHEET METAL WITH A MINIMUM 3" UP DOWN THE SIDES OF THE CURB. SECURE WITH SCREWS AND CAULK WEATHER TIGHT.
 5. EXISTING REFRIGERANT PIPE CURB TO BE REUSED.

- KITCHEN RENOVATION KEY NOTES
1. EXISTING ABANDONED CAPPED CURB TO REMAIN.
 2. DEMOLISH EXISTING ABANDONED CAPPED CURB.
 3. EXISTING OUTDOOR AIR INTAKE TO REMAIN.
 4. DEMOLISH EXISTING ABANDONED FLUE. CAP WEATHER TIGHT 12" ABOVE ROOF LINE.
 5. EXISTING GAS PIPING. REFER TO PLUMBING DRAWINGS FOR SCOPE OF WORK.
 10. EXISTING GREASE EXHAUST DUCT TO BE REUSED.
 11. DEMOLISH EXISTING AHU. MODIFY EXISTING PIPING, DUCTWORK, ETC. FOR CONNECTION TO NEW AHU.
 12. DEMOLISH EXISTING DUCTWORK.
 13. DEMOLISH EXISTING CLOTHES DRYER CLEANOUT CONTAINER.
 14. DEMOLISH EXISTING CLOTHES DRYER EXHAUST FAN AND ALL ASSOCIATED DUCTWORK, WIRING, CONTROLS, ETC.
 15. EXISTING FIRE/SMOKE DAMPER ABOVE CEILING FOR KITCHEN TRANSFER AIR IS PRESENTLY CLOSED. RE-PROGRAM FIRE ALARM SYSTEM FOR DAMPER TO BE OPEN. RE-PROGRAM FOR DAMPER TO CLOSE UPON FIRE ALARM CONDITION/SMOKE DETECTION. TYPICAL FOR 4.



07 FIRST FLOOR KEYPLAN
1/64"=1'-0"

CODE REVIEW:

CERTIFICATE:

spiezle

SPIEZLE ARCHITECTURAL GROUP INC.
1395 YARDVILLE HAMILTON SQUARE ROAD
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SPIEZLE ARCHITECTURAL GROUP, INC. 21A020063000

SEAL:

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KSI

KSI CONSULTING ENGINEERS, LLC
P.O. BOX 628 FARMINGDALE, NJ 07727
PHONE: 732.938.2666
FAX: 732.938.2521

CERTIFICATE OF AUTHORIZATION NO. 24G28124300
PAUL BURNI, N.J.P.E. LICENSE NUMBER 4515900
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DATE:
KSI PROJECT #: 201004_01

90% 9/18/20

PROJECT:

**KITCHEN
UPGRADES AND
CLASSROOM
ALTERATIONS AT
BRIGANTINE
ELEMENTARY
FOR
BRIGANTINE
OF EDUCATION**

301 E Evans
Brigantine, NJ 0820

FOR CODE REVIEW: DDMM/YYYY

REVISIONS:

REVISION	REVISION NAME	DATE
1		

FOR BID: DDMM/YYYY

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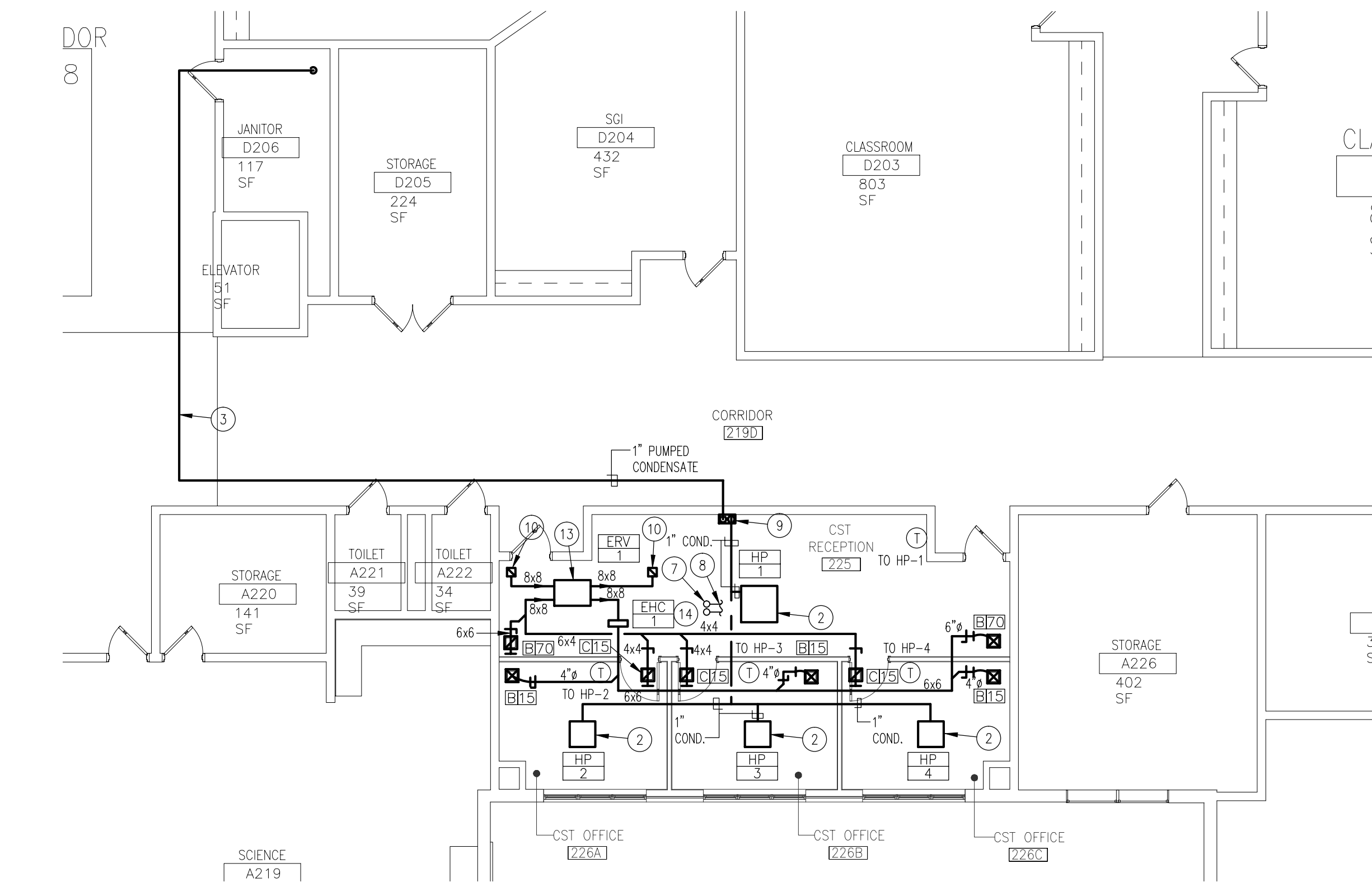
**MECHANICAL FIRST,
SECOND FLOOR AND
ROOF DEMOLITION
PARTIAL PLANS**

COMMISSION NUMBER:
20K009

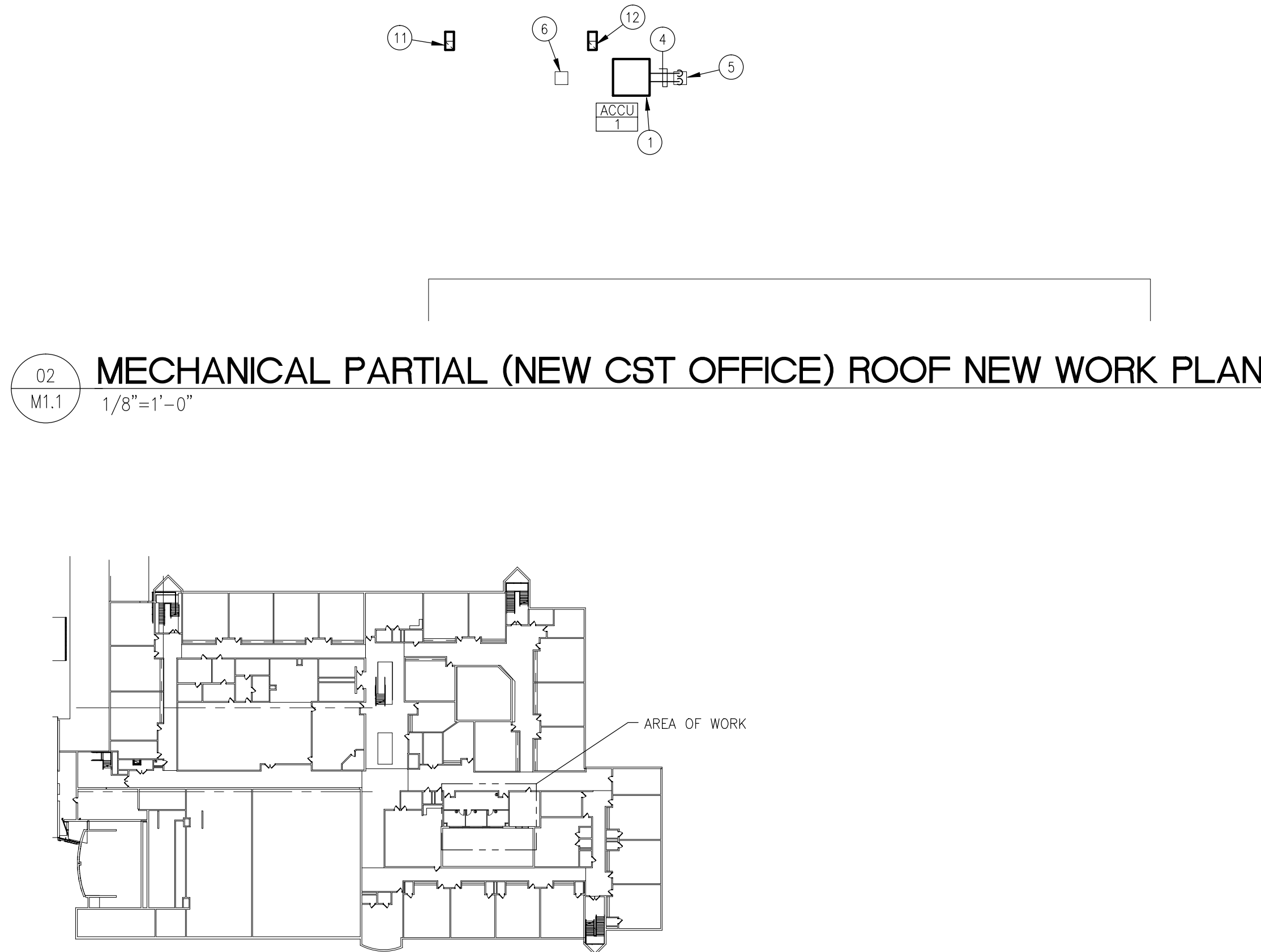
AGENCY NUMBER:

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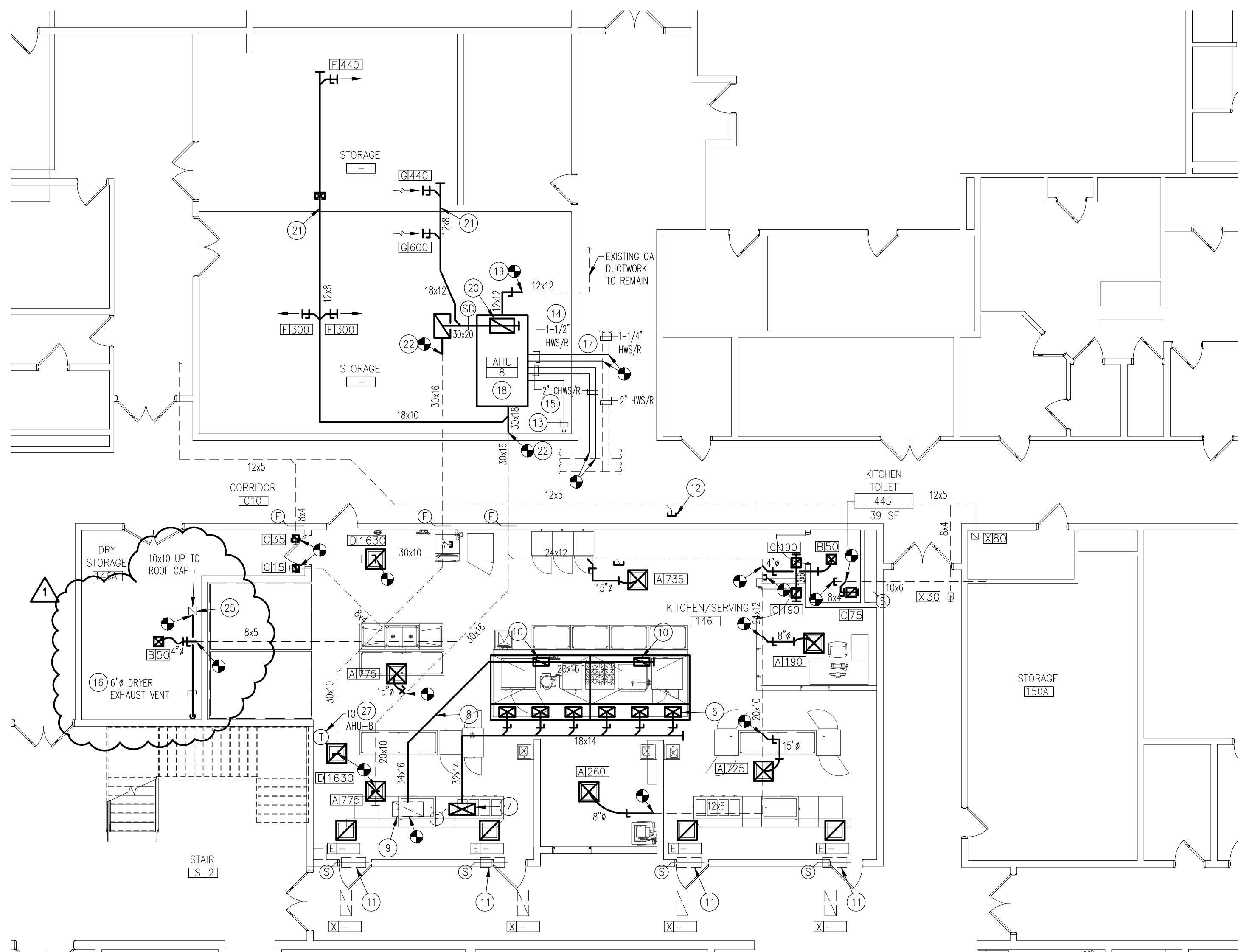


01
M1.1
MECHANICAL PARTIAL (NEW CST OFFICE) SECOND FLOOR NEW WORK PLAN
1/8"=1'-0"

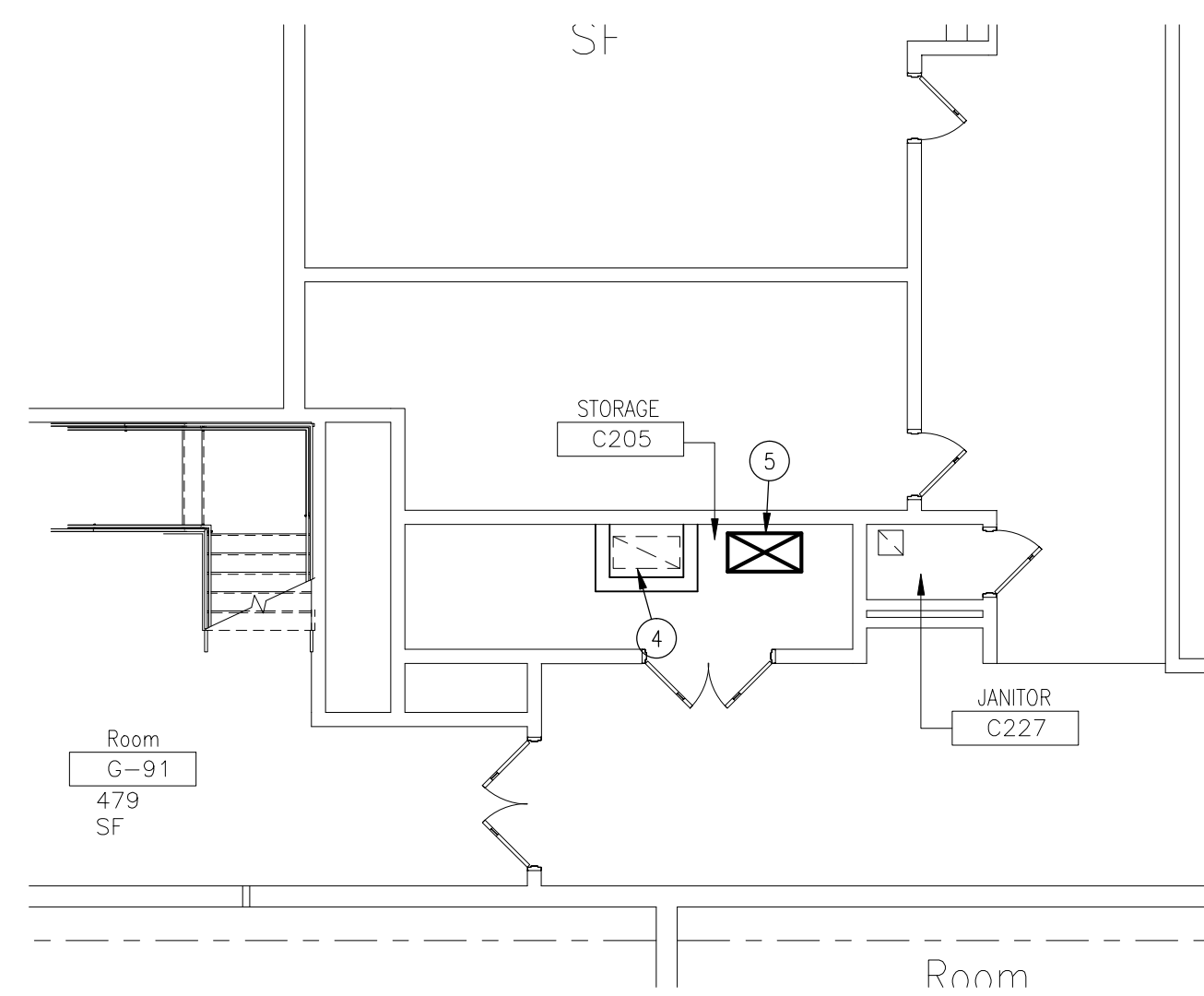


02
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MECHANICAL PARTIAL (NEW CST OFFICE) ROOF NEW WORK PLAN
1/8"=1'-0"

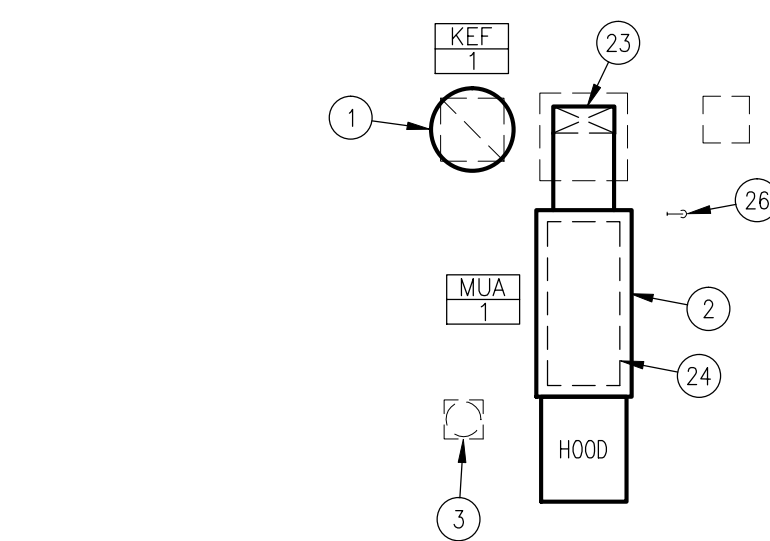
03
M1.1
SECOND FLOOR (NEW CST OFFICE) KEYPLAN
1/64"=1'-0"



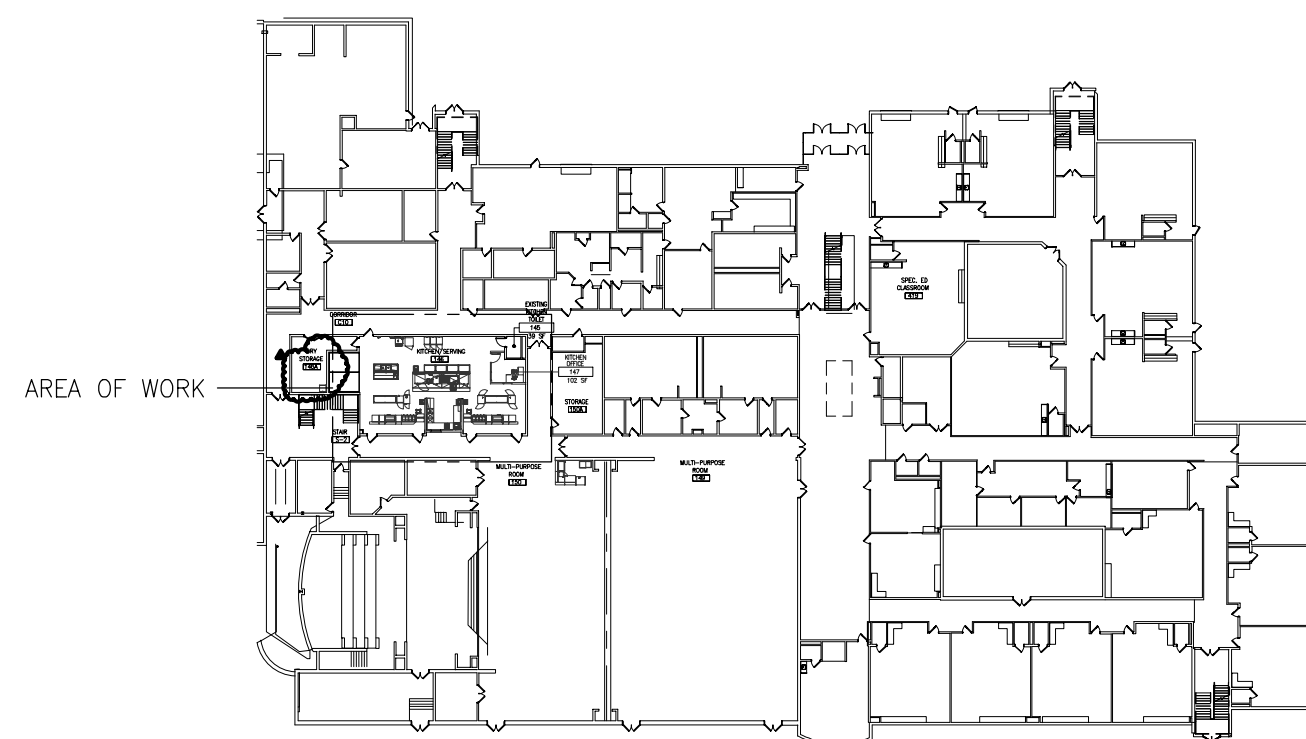
04
M1.1
MECHANICAL PARTIAL (KITCHEN) FIRST FLOOR NEW WORK PLAN
1/8"=1'-0"



05
M1.1
MECHANICAL PARTIAL (KITCHEN) SECOND FLOOR NEW WORK PLAN
1/8"=1'-0"



06
M1.1
MECHANICAL PARTIAL (KITCHEN) ROOF NEW WORK PLAN
1/8"=1'-0"



07
M1.1
FIRST FLOOR (KITCHEN) KEYPLAN
1/64"=1'-0"

NEW CST OFFICE KEY NOTES

1. PROVIDE NEW ROOF MOUNTED CONDENSING UNIT AND NEW ROOF RAILS. REFER TO ROOF EQUIPMENT SUPPORT RAIL DETAIL.
2. PROVIDE NEW CEILING CASSETTE HEAT PUMP UNIT
3. PROVIDE NEW 1" CONDENSATE PIPING ABOVE EXISTING SUSPENDED CEILING. SPILL TO JANITORS SINK
4. PROVIDE NEW REFRIGERANT PIPING. SIZE AND INSTALL AS PER MANUFACTURER'S INSTRUCTIONS
5. PROVIDE NEW REFRIGERANT PIPING DOWN THROUGH ROOF. REUSE EXISTING ROOF CURB. REFER TO ROOF PIPE CURB DETAIL.
6. CAP EXISTING CURB AS PER DEMOLITION PLANS
7. PROVIDE NEW REFRIGERANT PIPING UP THROUGH ROOF
8. PROVIDE INTERCONNECTING REFRIGERANT PIPING FROM ACCU-1 TO VRF HP'S 1 THRU 4. SIZE AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. REFER TO VRF REFRIGERANT PIPING AND WIRING DIAGRAM ON M3.3
9. PROVIDE CONDENSATE PUMP BY LITTLE GIANT OR EQUAL. MOUNT ABOVE CEILING. PUMP CONDENSATE TO JANITORS CLOSET
10. PROVIDE NEW DUCTWORK UP THROUGH ROOF
11. PROVIDE NEW GOOSENECK FOR OUTDOOR AIR. REFER TO GOOSENECK DETAIL
12. PROVIDE NEW GOOSENECK FOR RELIEF AIR. REFER TO GOOSENECK DETAIL
13. PROVIDE NEW ERY ABOVE SUSPENDED CEILING
14. PROVIDE NEW ELECTRIC DUCT HEATING COIL EHC-1. TRANSITION TO DUCTWORK AS REQUIRED

KITCHEN RENOVATION KEY NOTES

1. PROVIDE NEW ROOF MOUNTED HOOD EXHAUST FAN (KEF-1). INSTALL AS PER DETAILS
2. PROVIDE NEW ROOF MOUNTED HOOD MAKE-UP AIR UNIT (MUA-1)
3. EXISTING OUTDOOR AIR INTAKE TO REMAIN
4. EXISTING GREASE EXHAUST DUCT TO REMAIN
5. PROVIDE NEW 32x14 HOOD MAKE-UP AIR SUPPLY DUCTWORK
6. BALANCE EACH SUPPLY AIR HOOD CONNECTION TO 583 CFM. TYPICAL FOR 6
7. PROVIDE NEW 32x14 MAKE-UP AIR DUCT UP THROUGH FLOOR. PROVIDE NEW FIRESTOPPING AROUND NEW DUCT AT CEILING SLAB PENETRATION
8. PROVIDE NEW 34x16 GREASE EXHAUST DUCTWORK. PROVIDE MATERIALS, ACCESS DOORS AND INSULATION AS PER THE SPECIFICATIONS
9. EXISTING (NEVER USED) 38x18 STEEL GREASE EXHAUST DUCT TO REMAIN. CONNECT TO NEW GREASE EXHAUST DUCTWORK WITH WELDED CONNECTIONS AND INSULATE ALL DUCTWORK AS PER THE SPECIFICATIONS. PROVIDE NEW FIRE STOPPING AND NEW INSULATION AT CEILING SLAB PENETRATION
10. BALANCE HOOD EXHAUST TO 2000 CFM PER HOOD CONNECTION
11. EXISTING 30x12 WALL OPENING, WALL SLEEVE AND SMOKE DAMPER FOR TRANSFER AIR TO REMAIN. EXISTING SMOKE DAMPER IS PRESENTLY CLOSED AND NEEDS TO BE NORMALLY OPEN. CONTRACTOR SHALL COORDINATE WITH FIRE ALARM VENDOR TO RE-PROGRAM SMOKE DAMPER TO BE NORMALLY OPEN AND CLOSE UPON SMOKE DETECTION BY FIRE ALARM SYSTEM
12. CAP EXISTING DUCTWORK AIR TIGHT
13. PROVIDE NEW 1-1/4" CONDENSATE PIPING TO EXISTING FLOOR DRAIN
14. PROVIDE NEW HOT WATER PIPING FROM CORRIDOR MAIN TO NEW AHU-8 AS SHOWN
15. PROVIDE NEW CHILLED WATER PIPING FROM CORRIDOR MAIN TO NEW AHU-8 AS SHOWN
16. PROVIDE NEW 6" DRYER EXHAUST VENT FROM NEW CLOTHES DRYER TO EXISTING ROOF PENETRATION. INSTALL VENT DUCTWORK AS PER SPECIFICATIONS
17. PROVIDE NEW FIRESTOPPING FOR ALL NEW PIPE THROUGH WALL PENETRATIONS
18. PROVIDE NEW CEILING SUSPENDED AHU WITH 1" SPRING VIBRATION ISOLATION
19. CONNECT NEW AHU TO EXISTING OUTSIDE AIR DUCTWORK. PROVIDE NEW DUCTWORK AND TRANSITIONS AS REQUIRED
20. CONNECT NEW AHU TO NEW RETURN AIR DUCTWORK. PROVIDE NEW TRANSITIONS AS REQUIRED
21. PROVIDE NEW DUCTWORK THROUGH EXISTING WALL. PROVIDE NEW WALL OPENING AND LINTEL AS REQUIRED
22. PROVIDE NEW DUCT TRANSITIONS AS REQUIRED
23. PROVIDE NEW 32x14 ROOF MOUNTED MAKE-UP AIR SUPPLY DUCTWORK ON ROOF. REFER TO DUCT PENETRATION THROUGH ROOF DETAIL. INSULATE DUCTWORK AS PER SPECIFICATIONS
24. PROVIDE NEW 20" MUA CURB. REFER TO NOTE #9 IN MUA UNIT SCHEDULE
25. PROVIDE NEW CLEAN-OUT ON BOTTOM OF EXISTING CLOTHES DRYER VERTICAL RISER
26. REFER TO PLUMBING PLANS FOR GAS PIPING REQUIREMENTS
27. NEW THERMOSTAT BY BMS CONTRACTOR

CODE REVIEW:

CERTIFICATE:

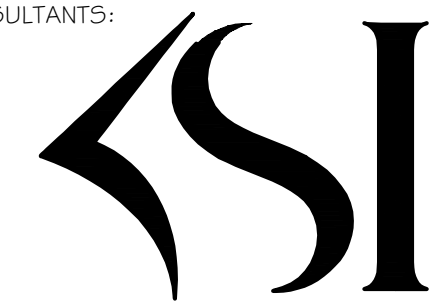


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DATE:
KSI PROJECT # 20100M-01

PROJECT:

KITCHEN
UPGRADES AND
CLASSROOM
ALTERATIONS AT
BRIGANTINE
ELEMENTARY
FOR
BRIGANTINE
OF EDUCATION

301 E Evans
Brigantine, NJ 0820

FOR CODE REVIEW: DDMMYYYY

REVISIONS:

REVISION	REVISION NAME	DATE
1	ADDENDUM #1	10/05/20

FOR BID: 09/23/2020

DRAWING TITLE:

MECHANICAL FIRST,
SECOND FLOOR
AND ROOF NEW
WORK PARTIAL PLANS

COMMISSION NUMBER:

20K009

AGENCY NUMBER:
01-0570-300-20-2000
01-0570-300-21-1-1000
DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

M.I.I

KITCHEN EXHAUST FAN SCHEDULE (KEF)													
UNIT ID	MANUFACTURER	MODEL NUMBER	TYPE	SERVICE	INTERLOCKED WITH	CFM	ESP IN W.G.	DRIVE	MOTOR POWER (HP)	ELECTRICAL			WEIGHT (LBS)
										VOLTS	PHASE	HERTZ	
KEF-1	CAPTIVEARE	DU240HFA	CENTRIFUGAL UPBLAST	HOOD	MJA-1	4,000	1.75	DIRECT	5	460	3	60	350
NOTES:													
1. INSTALL CURBS AND FANS PER MANUFACTURER'S INSTRUCTIONS.													
2. PROVIDE 20" TALL VENTED ROOF CURB													
3. FAN SHALL BE UL752 LISTED FOR GREASE AND HIGH HEAT OPERATION													
4. PROVIDE WEATHERPROOF DISCONNECT													
5. PROVIDE INVERTER DUTY TEFC MOTOR FOR VARIABLE FREQUENCY DRIVE CONTROL. (VFD SUPPLIED AS PART OF HOOD CONTROL PACKAGE)													
6. PROVIDE GREASE BOX													
7. PROVIDE HINGE KIT													
8. ELECTRICAL CONTRACTOR SHALL RUN 460V 3 PHASE WIRING FROM BREAKER TO HOOD CONTROL PACKAGE. ELECTRICAL CONTRACTOR SHALL ALSO RUN 460V 3 PHASE WIRING FROM HOOD CONTROL PACKAGE TO KITCHEN EXHAUST FAN. REFER TO WIRING DIAGRAMS ON PLANS													

ELECTRIC DUCT HEATER SCHEDULE (EDH)										
UNIT ID	SERVING	MODEL	CFM	KW	MBH	STAGES	EAT	LAT	VOLTS	PH
EHC-1	ERV-1	QUA	115	1.5	5	SCR	30	71	460	3
NOTES: 1. SELECTIONS BASED ON INDEECO. 2. AUTOMATIC RESET THERMAL CUTOUT 3. AIRFLOW SWITCH 4. MAGNETIC CONTACTORS 5. DOOR INTERLOCK DISCONNECT SWITCH 6. SCR CONTROL 7. PROVIDE TIE IN TO SCHOOL BMS 8. PROVIDE DISCHARGE AIR TEMPERATURE CONTROL 9. PROVIDE SUP-IN ARRANGEMENT										

ENERGY RECOVERY VENTILATOR SCHEDULE (ERV)															
UNIT NO.	MODEL NO.	CAPACITY (CFM)	INLET EXTERNAL	OUTLET EXTERNAL	ENTHALPY RECOVERY EFFICIENCY (HEATING)	ENTHALPY RECOVERY EFFICIENCY (COOLING)	ELECTRICAL				DIMENSIONS & WEIGHT				
			STATIC PRESSURE (IN W.G.)	STATIC PRESSURE (IN W.G.)			VOLTS	PHASE	HERTZ	FLA	MOC	WIDTH (INCH)	HEIGHT (INCH)	DEPTH (INCH)	WEIGHT (LBS.)
ERV-1	EV200	115	0.7	0.7	77%	64%	120	1	60	1.5	15	34	20	24	68
NOTES:															
1. SELECTIONS BASED ON EQUIPMENT MANUFACTURED BY RENREWARE															
2. PROVIDE MERV 8 FILTERS ON EACH SIDE OF HEAT EXCHANGER															
3. DISCONNECT SWITCH BY MECHANICAL CONTRACTOR															
4. CROSS CONTAMINATION < 1%															
5. TIE INTO SCHOOL BMS															

GAS RED MAKEUP AIR UNIT SCHEDULE (MUA)																			
UNIT ID	MANUFACTURER	MODEL NUMBER	SUPPLY FAN				COOLING SECTION	GAS HEAT SECTION				ELECTRICAL (FOR FAN MOTOR ONLY - THIS POWER IS FROM HOOD CONTROL PACKAGE VFD)				OPER WEIGHT WITHOUT CURB (LBS)	ESTIMATED CURB WEIGHT (LBS)	TOTAL ESTIMATED WEIGHT (LBS)	
			TOTAL CFM	MINIMUM CFM	OUTDOOR AIR %	ESP (IN. WG.)		MOTOR HP	MBH INPUT	MBH OUTPUT	TEMP RISE (DEG F)	GAS PRESSURE (IN. WG.)	VOLTS	PH	MCA				MCP
MUA-1	MANUFACTURER CAPTIVEARE	A2-IBT-400-G15	3,500	2,500	100	0.75	2	-NO COOLING-	315.705	252.564	60	7-14	460	3	3.3	15	1150	250	1400
NOTES																			
1. PROVIDE MOTORIZED OUTDOOR INTAKE DAMPER AND WEATHERHOOD																			
2. PROVIDE LOW FIRE START																			
3. PROVIDE FREEZSTAT																			
4. PROVIDE END DISCHARGE																			
5. PROVIDE FULLY MODULATING GAS CONTROLS																			
6. PROVIDE BLOWER MOUNTED DISCHARGE AIR TEMPERATURE SENSOR																			
7. UNIT SHALL BE A COMPLETE PACKAGE INCLUDING ALL CONTROLS TESTED IN ACCORDANCE WITH ANSI STANDARDS AND ETL LABEL																			
8. PROVIDE DISCONNECT																			
9. PROVIDE NEW 20" FULL PERIMETER WIND LOAD RATED INSULATED ROOF CURB. CURB SUBMITTAL SHALL INDICATE ATTACHMENTS REQUIRED FOR AMMINUM WIND SPEED OF 135 MPH (WINDSPEED FOR BRIGANTINE, NJ). WINDLOADING CALCULATIONS SHALL BE SIGNED AND SEALED																			
CAPTIVE-ARE'S STANDARD 150 MPH MM-MADE FLORIDA SIGNED AND SEALED CURB CALCULATION PACKAGE IS ACCEPTABLE																			
10. PROVIDE TEFC INVERTER DUTY MOTOR. VFD FOR FAN MOTOR IS SUPPLIED AS PART OF THE HOOD CONTROL PACKAGE																			
11. PROVIDE SEPARATE 120V 15 AMP BREAKER, POWER CONNECTION AND WIRING FOR MUA HEATER CONTROLS																			
12. ELECTRICAL CONTRACTOR SHALL RUN 460V 3 PHASE WIRING FROM BREAKER TO HOOD CONTROL PACKAGE. CONTRACTOR SHALL ALSO RUN 460V 3 PHASE WIRING FROM HOOD CONTROL PACKAGE TO MAKE-UP AIR UNIT. REFER TO WIRING DIAGRAMS ON PLANS																			
13. PROVIDE ALL LOW VOLTAGE WIRING IN BETWEEN HOOD CONTROL'S PACKAGE AND MUA UNIT AS PER THE WIRING DIAGRAMS																			

AIR HANDLING UNIT (AHU)																													
UNIT ID	MODEL NO.	AREA SERVED	SUPPLY FAN		% OA	ESP N.W.G.	MOTOR HP	CHILLED WATER COOLING COIL						HOT WATER HEATING COIL						ELECTRICAL CHARACTERISTICS					DIMENSIONS			OPER. WEIGHT (LBS.)	
			TOTAL CFM	OA CFM				TOTAL MBH	SENS MBH	FLOW (GPM)	WATER PRESSURE DROP (FT H2O)	EAT (F) DB	LAT (F) DB	EWT/LWT DEG F	EAT (F) DB	LAT (F) DB	TOTAL (MBH)	FLOW (GPM)	WATER PRESSURE DROP (FT H2O)	EWT/LWT DEG F	VOLTS	PHASE	HERTZ	MCA	MOC	WIDTH (INCH)	LENGTH (INCH)		HEIGHT (INCH)
AHU-8	UCCAG10C0FORAL	KITCHEN/STORAGE	4600	200	4%	0.8	5	135	110	26.9	2.26	76/64	54.1/53.6	44/54	67	95.9	143.4	14.4	2.6	180/160	460	3	60	10.5	15	63	113	38	1400
<p>NOTES:</p> <p>1. SELECTION BASED ON EQUIPMENT FROM TRANE</p> <p>2. DISCONNECT BY MECHANICAL CONTRACTOR</p> <p>3. CONTROLS BY ATC CONTRACTOR</p> <p>4. UNIT TO BE MOUNTED IN HORIZONTAL CONFIGURATION</p> <p>5. PROVIDE MIXING BOX WITH TOP RETURN AIR INTAKE, END OUTSIDE AIR INTAKE, AND PLEATED MERV 8 FILTERS</p> <p>6. UNIT TO MOUNTED FROM STRUCTURE WITH 1" SPRING VIBRATION ISOLATORS. REFER TO STRUCTURAL PLANS</p> <p>7. PROVIDE FRONT END DISCHARGE</p>																													

AIR-COOLED CONDENSING UNIT SCHEDULE (ACCU)																	
UNIT NO.	MODEL	AREA SERVED	MATCHED INDOOR HP UNITS	NOMINAL COOLING CAPACITY (BTUH)	NOMINAL HEATING CAPACITY (BTUH)	CORRECTED COOLING CAPACITY (BTUH)	CORRECTED HEATING CAPACITY (BTUH)	EER	ELECTRICAL								
									VOLTS	PHASE	HERTZ	MCA (AMPS)	MOC (AMPS)	WIDTH (INCH)	HEIGHT (INCH)	DEPTH (INCH)	WEIGHT (LBS.)
ACCU - 1	TUMYH048	CST OFFICES	HP-1, 2, 3, 4	48,000	54,000	48,236	51,300	12.2	208	1	60	36	44	42	53	14	275
NOTES:																	
1. SELECTIONS BASED ON EQUIPMENT MANUFACTURED BY TRANE																	
2. MOUNT CONDENSING UNIT ON PRE-FABRICATED EQUIPMENT SUPPORT CURB																	
3. DISCONNECT SWITCH BY MECHANICAL CONTRACTOR																	
4. ANTI-SHORT CYCLE TIMER																	
5. CONDENSER COIL GUARD																	
6. REFRIGERANT SHALL BE R410A																	
7. PROVIDE LOW AMBIENT KIT																	
8. INDOOR EVAPORATORS ARE FED THROUGH THE OUTDOOR UNIT																	
9. ENTIRE ACCU SHALL BE MANUFACTURED, TESTED AND THEN SENT FOR AN ENTIRE UNIT COATING/DIPPING UTILIZING MICROGUARD A335 HVAC ANTI-CORROSION PROTECTION.																	
ALL COSTS ASSOCIATED WITH SHIPPING BETWEEN MANUFACTURER, DIPPING FACILITY AND JOB SITE SHALL BE COORDINATED AND INCLUDED IN THE BID.																	

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (HP)																					
UNIT NUMBER	MODEL NUMBER	TYPE	SERVING AREA	MATCHED OUTDOOR	COOLING				HEATING				ELECTRICAL CHARACTERISTICS					DIMENSIONS			
					NOM. TOT CAPACITY	CORRECTED CAPACITY	ENTERING AIR DRY BULB	ENTERING AIR WET BULB	NOM HEATING CAPACITY	CORRECTED CAPACITY	ENTERING AIR CONDITIONS DRY BULB	VOLTS	PHASE	HERTZ	MCA	MOP	WIDTH (INCH)	HEIGHT (INCH)	DEPTH (INCH)	WEIGHT (LBS.)	
				UNIT	(BTUH)	(BTUH)	°F	°F	(BTUH)	(BTUH)	°F										
HP - 1	TPLFP024	4-WAY CEILING CASSETTE	CST RECEPTION	ACCU-1	24,000	21,082	75	63	27,000	25,650	70	208	1	60	0.54	15	36	12	36 75		
HP - 2	TPLFP008	4-WAY CEILING CASSETTE	CST OFFICE 226A	ACCU-1	8,000	7,027	75	63	9,000	8,550	70	208	1	60	0.28	15	24	10	24 40		
HP - 3	TPLFP008	4-WAY CEILING CASSETTE	CST OFFICE 226B	ACCU-1	8,000	7,027	75	63	9,000	8,550	70	208	1	60	0.28	15	24	10	24 40		
HP - 4	TPLFP008	4-WAY CEILING CASSETTE	CST OFFICE 226C	ACCU-1	8,000	7,027	75	63	9,000	8,550	70	208	1	60	0.28	15	24	10	24 40		
<div>NOTES:</div> <div>1. SELECTIONS BASED ON EQUIPMENT MANUFACTURED BY TRANE.</div> <div>2. CONTRACTOR SHALL SUPPLY ALL DISCONNECT SWITCHES.</div> <div>3. ALL UNITS ARE POWERED OFF OF THE ACCU. PROVIDE INTERCONNECTING POWER AND CONTROL WIRING BETWEEN THE HP AND THE ACCU</div> <div>4. PROVIDE TRANE PROGRAMMABLE CONTROLLER WITH BACNET INTERFACE.</div> <div>5. PROVIDE FACTORY INSTALLED CONDENSATE PUMP CAPABLE OF 0.8 GPH WITH LIFT OF 33"</div>																					

DIFFUSER AND REGISTER SCHEDULE						
UNIT ID	MODEL	FACE SIZE	NECK SIZE	DESCRIPTION	REMARKS	
A	ASCD	24x24	REFER TO TABLE 1	ALUMINUM CONSTRUCTION 3-CONE CEILING DIFFUSER	1 THROUGH 7	
B	ASCD	12x12	REFER TO TABLE 2	ALUMINUM CONSTRUCTION 3-CONE CEILING DIFFUSER		
C	630	REFER TO TABLE 3	REFER TO TABLE 3	ALUMINUM RETURN GRILLE WITH FIXED 45 DEGREE LOUVERS AND 3/4" SPACING		
D	10A	REFER TO TABLE 4	REFER TO TABLE 4	ALUMINUM PERFORATED RETURN GRILLE		
E	10A	24x24	22x22	ALUMINUM PERFORATED RETURN GRILLE		
F	620	REFER TO TABLE 5	REFER TO TABLE 5	ALUMINUM DOUBLE DEFLECTION SUPPLY REGISTER WITH 3/4" BLADE SPACING. FRONT BLADES PARALLEL TO THE SHORT DIMENSION		
G	630	REFER TO TABLE 6	REFER TO TABLE 6	ALUMINUM RETURN GRILLE WITH FIXED 45 DEGREE LOUVERS AND 3/4" SPACING		
NOTES						
1. SELECTIONS ARE BASED ON PRICE INDUSTRIES.						
2. BRANCH DUCTS AND FLEXIBLE DUCTS CONNECTING TO THE DIFFUSERS SHALL BE FULL SIZE OF NECK DIAMETER.						
3. BAKED ENAMEL FINISH. COLOR TO BE SELECTED BY ARCHITECT.						
4. DIFFUSERS SHALL BE 4-WAY BLOW UNLESS OTHERWISE INDICATED ON PLANS.						
5. MOUNTING FRAME TYPE SHALL BE COORDINATED WITH CEILING/WALL DUCT CONSTRUCTION TYPE.						
6. REFER TO ARCHITECTS REFLECTED CEILING PLANS FOR FINAL LOCATION OF DIFFUSERS AND GRILLES						
7. PROVIDE SQUARE TO ROUND NECK ADAPTERS IF REQUIRED						
TABLE 2: 12x12 DIFFUSER NECK SIZE TABLE		TABLE 3: 630 RETURN GRILLE/REGISTER SIZE TABLE		TABLE 4: 24x24 10" PERFORATED RETURN SIZE TABLE		
UP TO 80 CFM - 4" DIAMETER		UP TO 80 CFM - 5/8" NECK, 10x10 FACE		UP TO 125 CFM - 8/4" NECK, 10x6 FACE		
81 TO 150 CFM - 6" DIAMETER		81 TO 180 CFM - 5/8" NECK, 10x10 FACE		126 TO 260 CFM - 12x6 NECK, 14x6 FACE		
151 TO 250 CFM - 8" DIAMETER		181 TO 240 CFM - 10x10 NECK, 12x12 FACE		261 TO 360 CFM - 12x6 NECK, 14x10 FACE		
		241 TO 370 CFM - 12x12 NECK, 14x14 FACE		361 TO 540 CFM - 16x10 NECK, 18x12 FACE		
		371 TO 475 CFM - 14x14 NECK, 16x16 FACE		541 TO 710 CFM - 20x10 NECK, 22x12 FACE		
				711 TO 900 CFM - 28x14 NECK, 30x16 FACE		
				901 TO 1200 CFM - 40x14 NECK, 42x16 FACE		

CODE REVIEW:

CERTIFICATE:



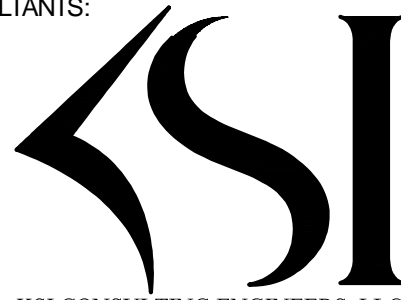
SPIEZE ARCHITECTURAL GROUP INC.
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CERTIFICATE OF AUTHORIZATION NO. 24GZA28124300
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DATE:
KSI PROJECT #: 201006_01

90% 9/18/20

PROJECT:

KITCHEN
UPGRADES AND
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ALTERATIONS AT
BRIGANTINE
ELEMENTARY
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BRIGANTINE
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301 E Evans
Brigantine, NJ 0820

FOR CODE REVIEW: DDDMMYYYY

REVISIONS:

REVISION NAME	DATE
---------------	------

FOR BID: DDDMMYYYY

DRAWING TITLE:

MECHANICAL
SCHEDULES

COMMISSION NUMBER:

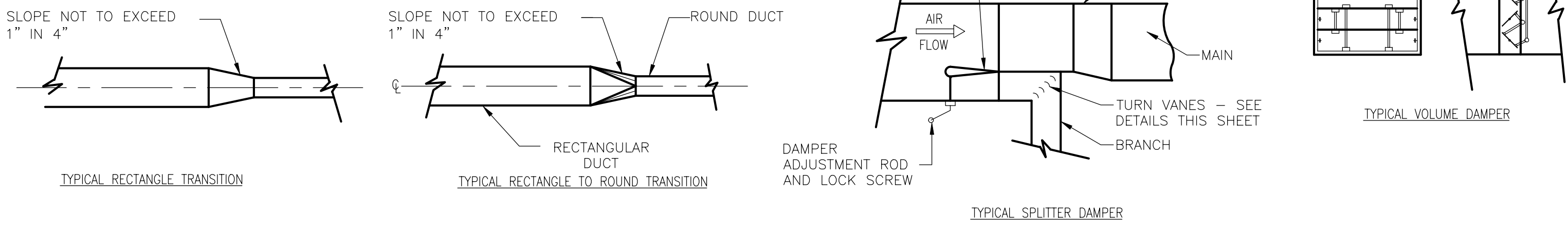
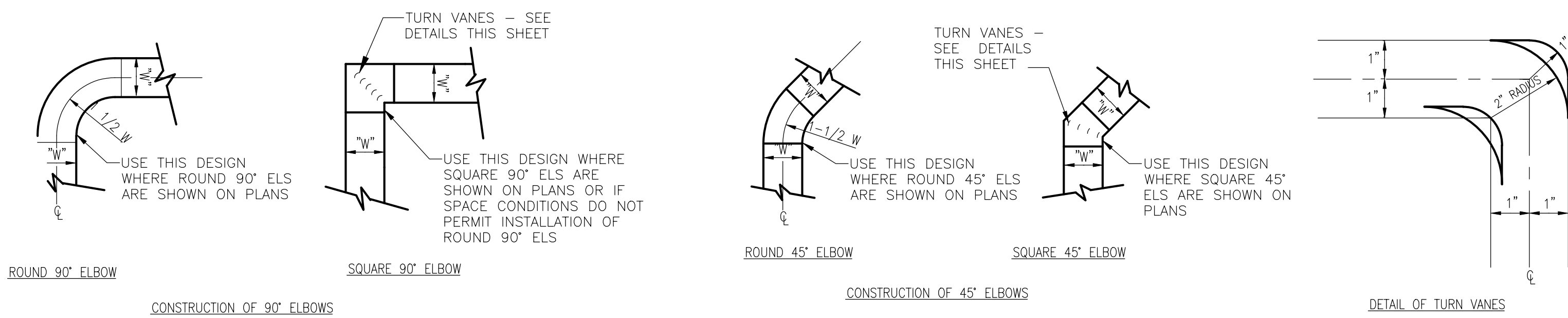
20K009

AGENCY NUMBER:

DO NOT SCALE THE DRAWINGS

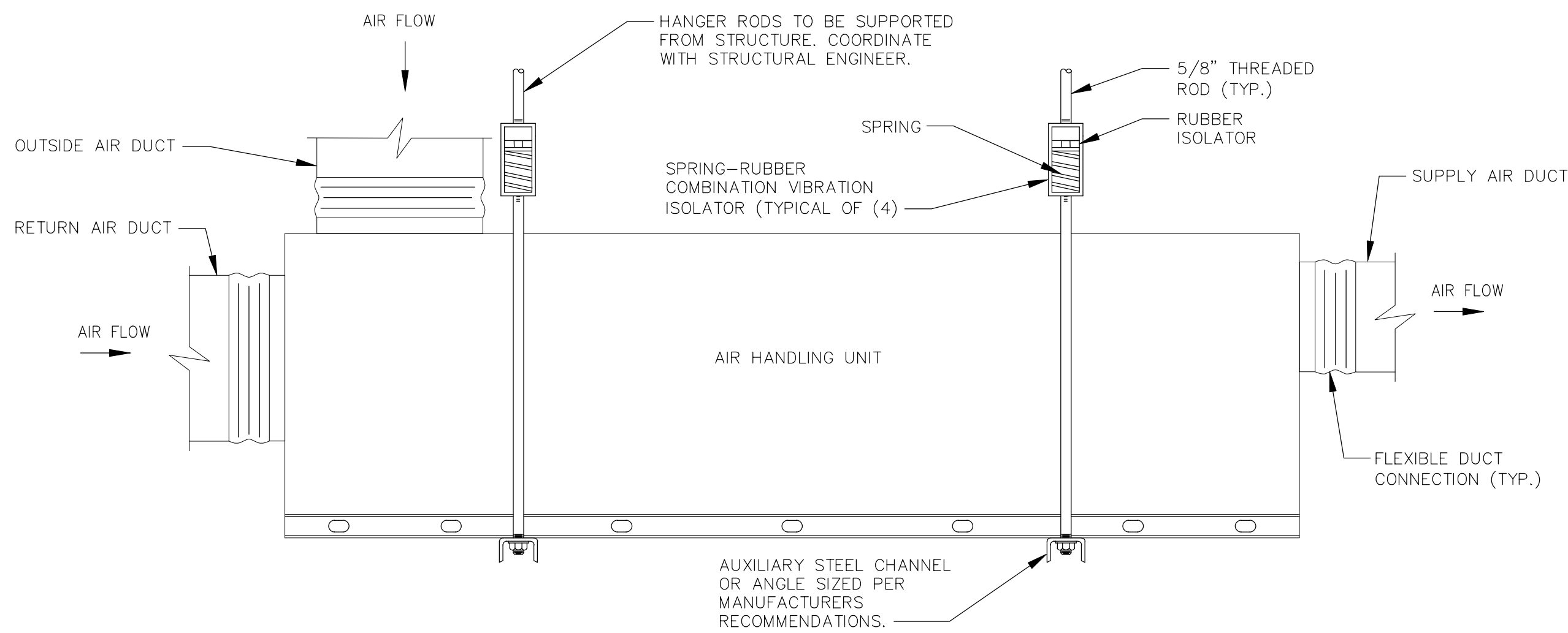
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NUMBER:

M2.1



01 DUCTWORK DETAILS

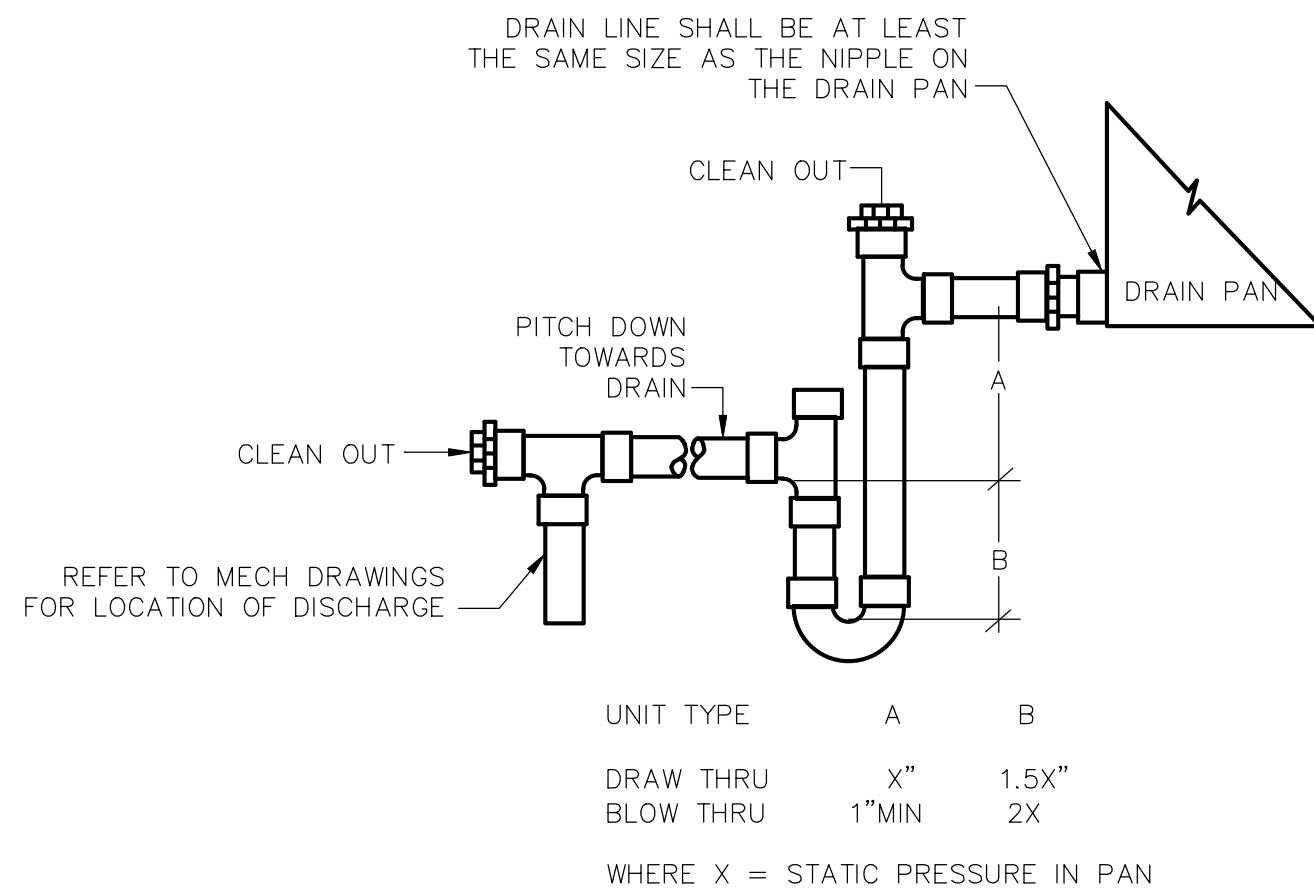
M3.1 NONE



- NOTES:
- COORDINATE SUPPORTING UNIT FROM STRUCTURE ABOVE WITH FIELD CONDITIONS, STRUCTURAL ENGINEER AND ARCHITECT, AS WELL AS CORRECT METHODS, SUPPORT POINT QUANTITIES & LOCATIONS AND RECOMMENDATIONS AS PER THE UNIT MANUFACTURER.
 - PROVIDE P-TRAP FOR CONDENSATE DRAIN.
 - CONTRACTOR SHALL SECURE THE UNIT IN ACCORDANCE WITH LOCAL SEISMIC BUILDING CODES.
 - UNIT SHALL BE HORIZONTAL SUPPLY AND RETURN AIR DUCTED WITH OUTSIDE AIR FILTER MIXING BOX.
 - UNIT SHALL BE HORIZONTAL SUPPLY AND RETURN DUCTED.
 - SEE FLOOR PLANS, DETAILS AND SPECIFICATIONS FOR PIPING REQUIREMENTS.

03 CEILING HUNG UNIT SUPPORT DETAIL

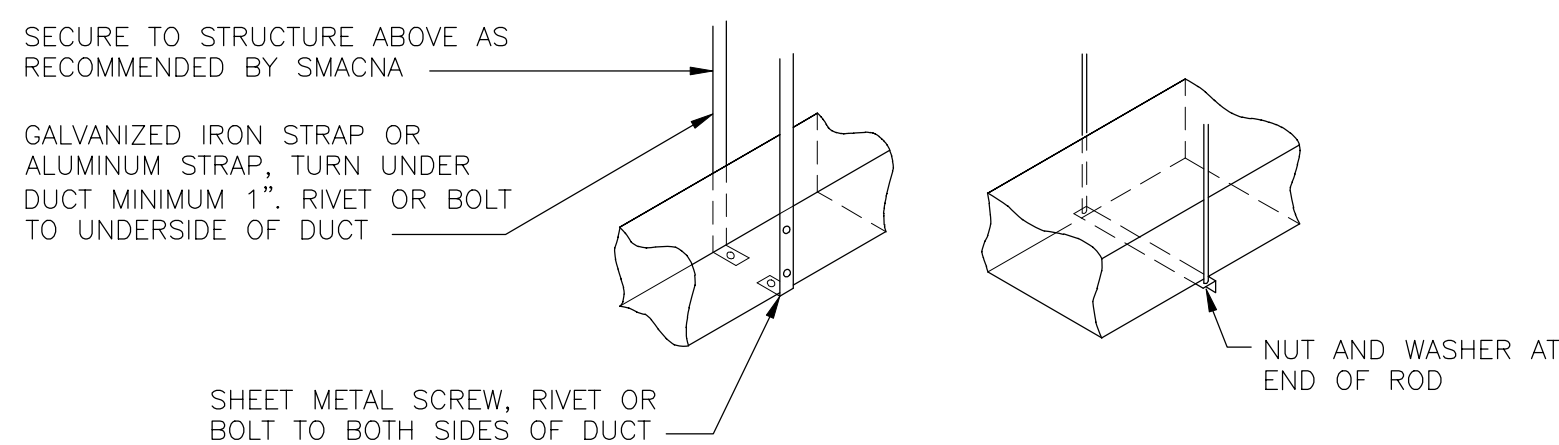
M3.1 NONE



06 CONDENSATE DRAIN TRAP DETAIL

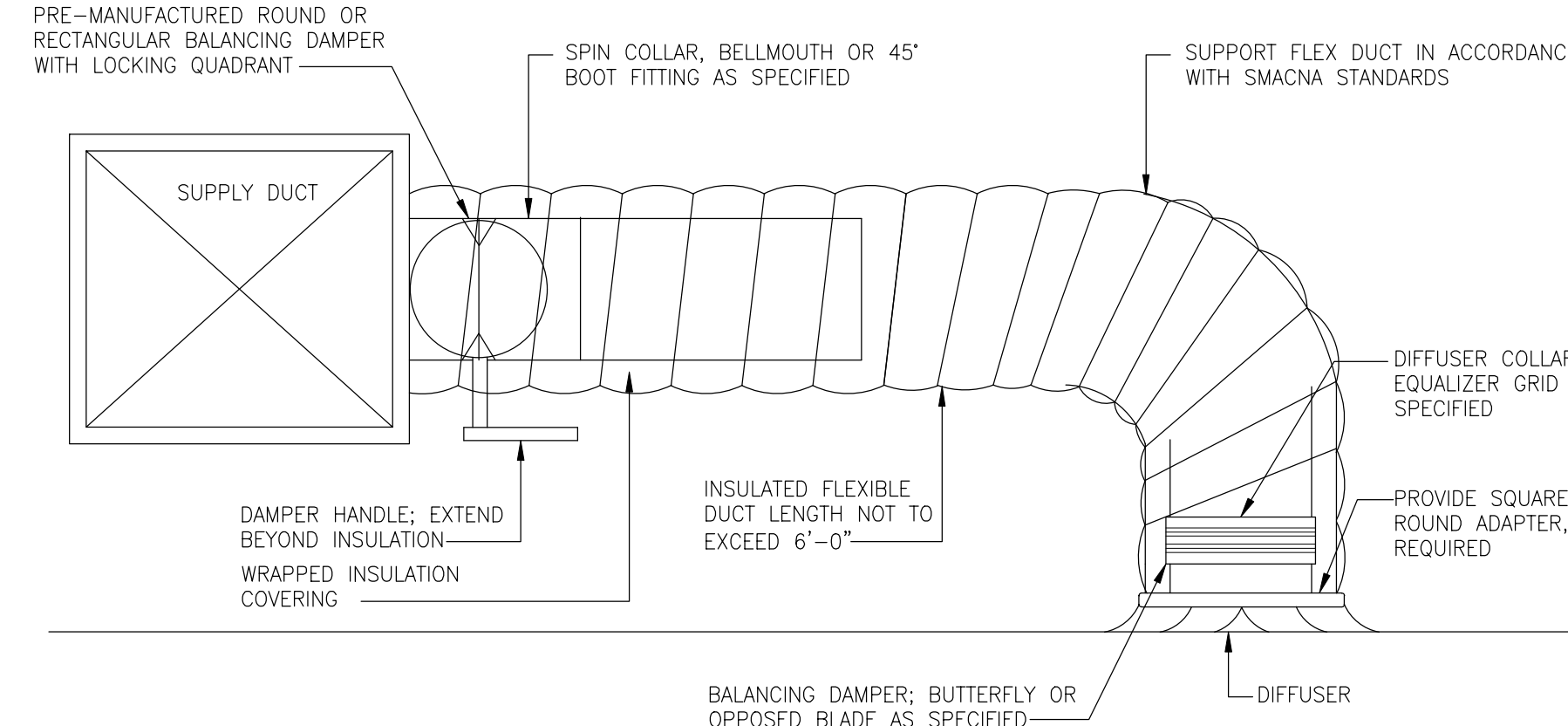
M3.1 N.T.S

HALF DUCT PERIMETER RANGE	PAIR AT 10' SPACING		PAIR AT 8' SPACING		PAIR AT 5' SPACING		PAIR AT 4' SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2 < 30"	1"x 22 GA.	10 GA. (0.1357)	1"x 22 GA.	10 GA. (0.1357)	1"x 22 GA.	12 GA. (0.1067)	1"x 22 GA.	12 GA. (0.1067)
P/2 < 72"	1"x 18 GA.	3/8"	1"x 20 GA.	1/4"	1"x 22 GA.	1/4"	1"x 22 GA.	1/4"
P/2 < 96"	1"x 16 GA.	3/8"	1"x 18 GA.	3/8"	1"x 20 GA.	3/8"	1"x 22 GA.	1/4"
P/2 < 120"	1-1/2"x 16 GA.	1/2"	1"x 16 GA.	3/8"	1"x 18 GA.	3/8"	1"x 20 GA.	1/4"
P/2 < 168"	1-1/2"x 16 GA.	1/2"	1"x 16 GA.	1/2"	1"x 16 GA.	3/8"	1"x 18 GA.	3/8"
P/2 < 192"	—	1/2"	1-1/2"x 16 GA.	1/2"	1"x 16 GA.	3/8"	1"x 16 GA.	3/8"



07 DUCT HANGER DETAILS

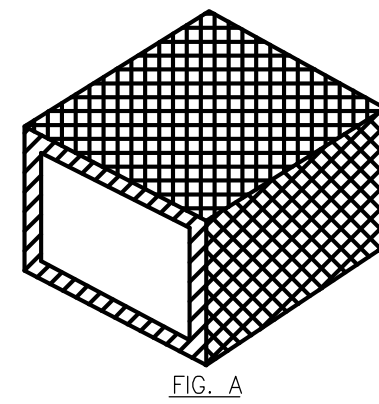
M3.1 NONE



- NOTES:
- PROVIDE AT FLEXIBLE DUCT CONNECTION A METAL DRAWBAND ON THE INTERIOR FLEXIBLE DUCT. SECURE THE INSULATION OVER THE DRAW BAND WITH AN ADDITIONAL DRAWBAND.
 - PROVIDE MINIMUM 2" COLLARS FOR ATTACHMENT OF THE FLEX DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
 - BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

02 FLEXIBLE DUCT INSTALLATION

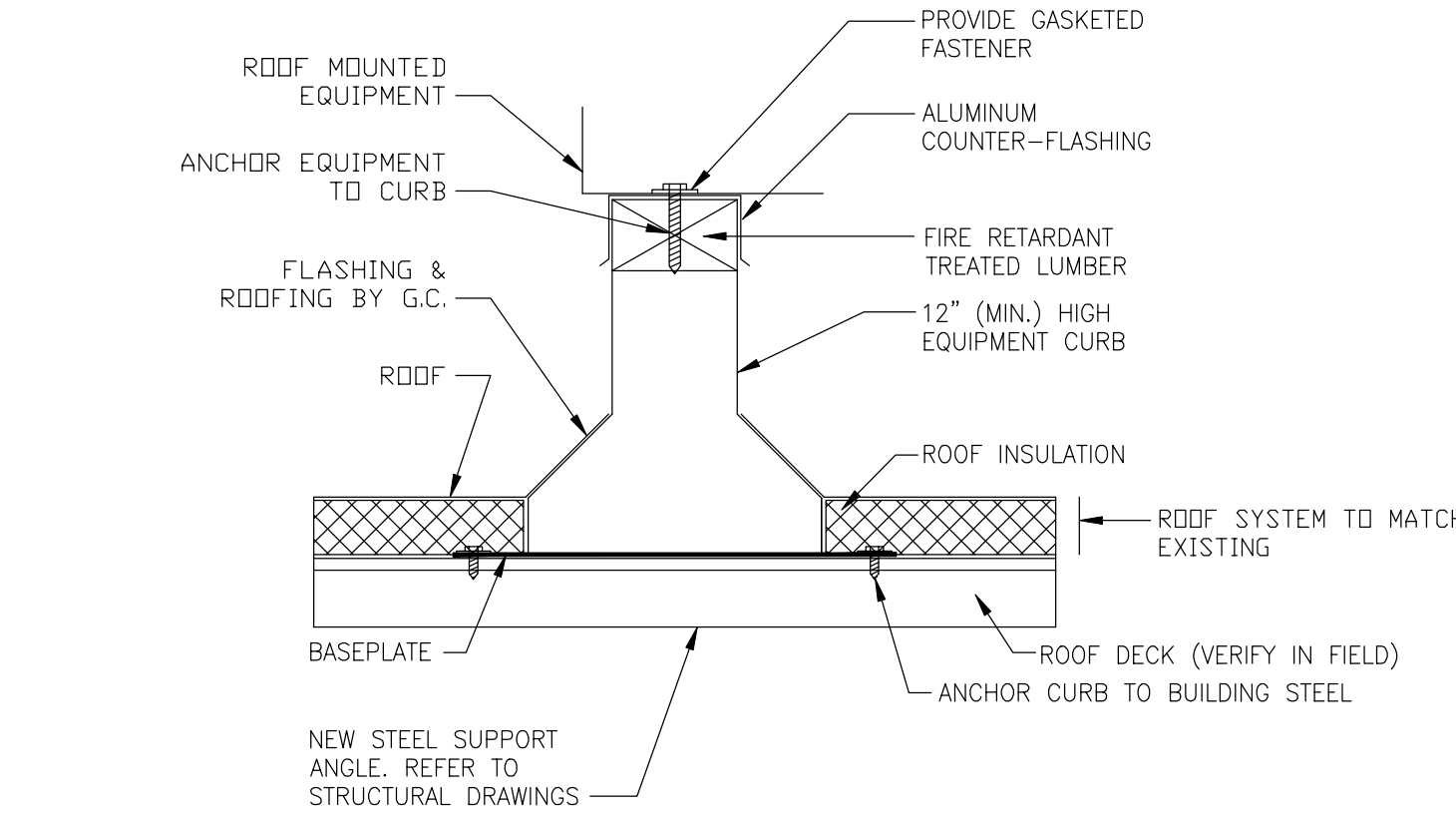
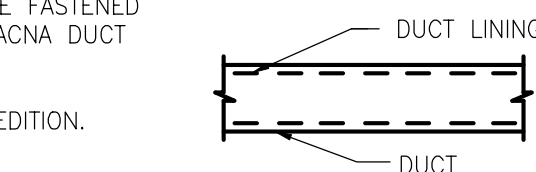
M3.1 NONE



- NOTES:
- DUCTS SHALL BE ACOUSTICALLY LINED ON ALL 4 SIDES AS SHOWN IN FIG. "A" AND SHALL BE DESIGNATED BY THE SYMBOL IN FIG. "C". LINING THICKNESS SHALL BE AS SPECIFIED.
 - DUCTS LINED WITH ACOUSTICAL MATERIAL SHALL BE FASTENED WITH CLIPS, ADHESIVE OR PINS, AS DESCRIBED IN SMACNA DUCT CONSTRUCTION STANDARDS 1985 EDITION.
 - REFER TO SPECIFICATIONS FOR MATERIAL TYPES, EDITION.

04 ACOUSTICAL TREATMENT - DUCT LINING DETAIL

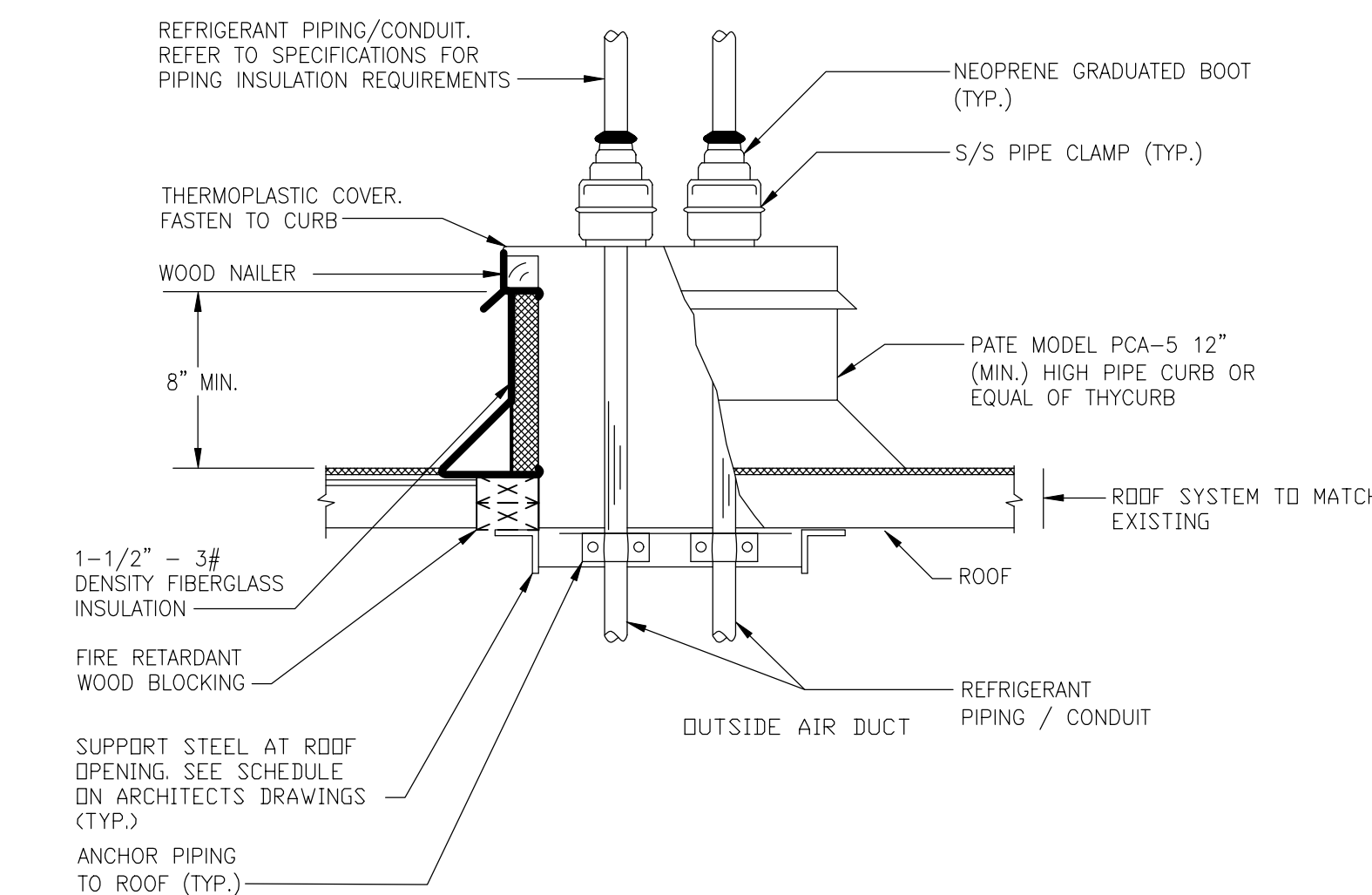
M3.1 NONE



- NOTE:
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE THE EXISTING ROOFING WHERE THE NEW EQUIPMENT CURBS ARE TO BE SET. AFTER INSTALLATION OF THE EQUIPMENT CURBS, PROVIDE NEW ROOF FLASHING AND COUNTER FLASHING. IF THE ROOF HAS VALID WARRANTY, THEN THE CONTRACTOR SHALL HIRE THE SERVICES OF THE OWNER'S CERTIFIED ROOFING CONTRACTOR TO PERFORM ALL WORK OF INSTALLING CURBS NOT TO VOID THE ROOF GUARANTEES (COORDINATE WITH OWNER).

05 ROOF EQUIPMENT SUPPORT RAIL DETAIL

M3.1 NONE



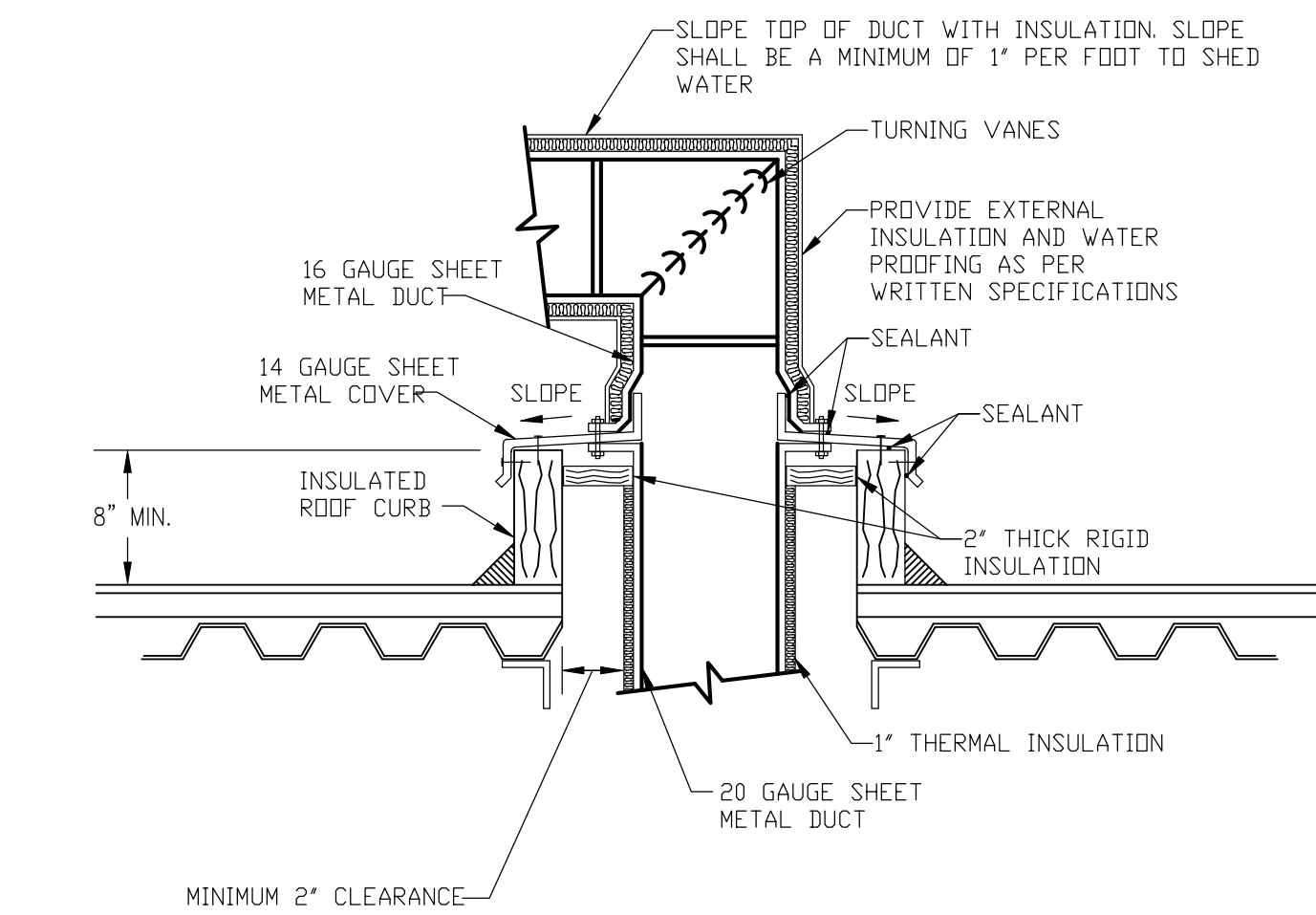
- NOTE:
- CONTRACTOR SHALL HIRE THE SERVICES OF THE PROJECT ROOFING CONTRACTOR TO PERFORM ALL ROOFING WORK (FLASHING, COUNTER FLASHING, INSULATION CUTTING, ETC.) ASSOCIATED WITH INSTALLING EQUIPMENT CURBS NOT TO VOID WARRANTIES. CONTRACTOR SHALL COORDINATE WITH G.C. / ROOFING CONTRACTOR.

08 ROOF PIPE CURB DETAIL

M3.1 NONE

09 DUCT PENETRATION THROUGH ROOF

M3.1 NONE



CODE REVIEW:

CERTIFICATE:



SPIEGLE ARCHITECTURAL GROUP INC.
1395 YARDVILLE HAMILTON SQUARE ROAD
SUITE 2A
HAMILTON, NJ 08621
Phone: 609-695-7400

SIGNATURE:
THOMAS S. SPIEGLE 21A01505400
SCOTTE DOWNE 21A01674400
STEVEN LEONE 21A01770100
SPIEGLE ARCHITECTURAL GROUP, INC. 21A01584200

SEAL:

CONSULTANTS:



KSI CONSULTING ENGINEERS, LLC
P.O. BOX 628 FARMINGDALE, NJ 07727
PHONE: 732-338-2666
FAX: 732-938-2531
CERTIFICATE OF AUTHORIZATION NO. 24G28124300
PAUL RUPNUL, N.J.P.E. LICENSE NUMBER 4515900
ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE ORIGINAL AND UNREPRODUCED WORK OF THE CONSULTING ENGINEER. ANY REPRODUCTION OF THIS DRAWING FOR THE PURPOSE OF COPYING THIS WORK OR REPRODUCING THIS DRAWING SHALL BE CONSIDERED A VIOLATION OF BOTH THE PROFESSIONAL CODE OF ETHICS AND A VIOLATION OF NEW JERSEY STATUTES, BOTH OF WHICH SHALL BE PROSECUTED TO THE FULLEST EXTENT OF CURRENT STATUTES.

DATE:
KSI PROJECT #: 201004_01

90% 9/18/20

PROJECT:

KITCHEN
UPGRADES AND
CLASSROOM
ALTERATIONS AT
BRIGANTINE
ELEMENTARY
FOR
BRIGANTINE
OF EDUCATION

301 E Evans
Brigantine, NJ 0820

FOR CODE REVIEW: DDMM/YYYY

REVISIONS:
REVISION NAME DATE

FOR BID: DDMM/YYYY

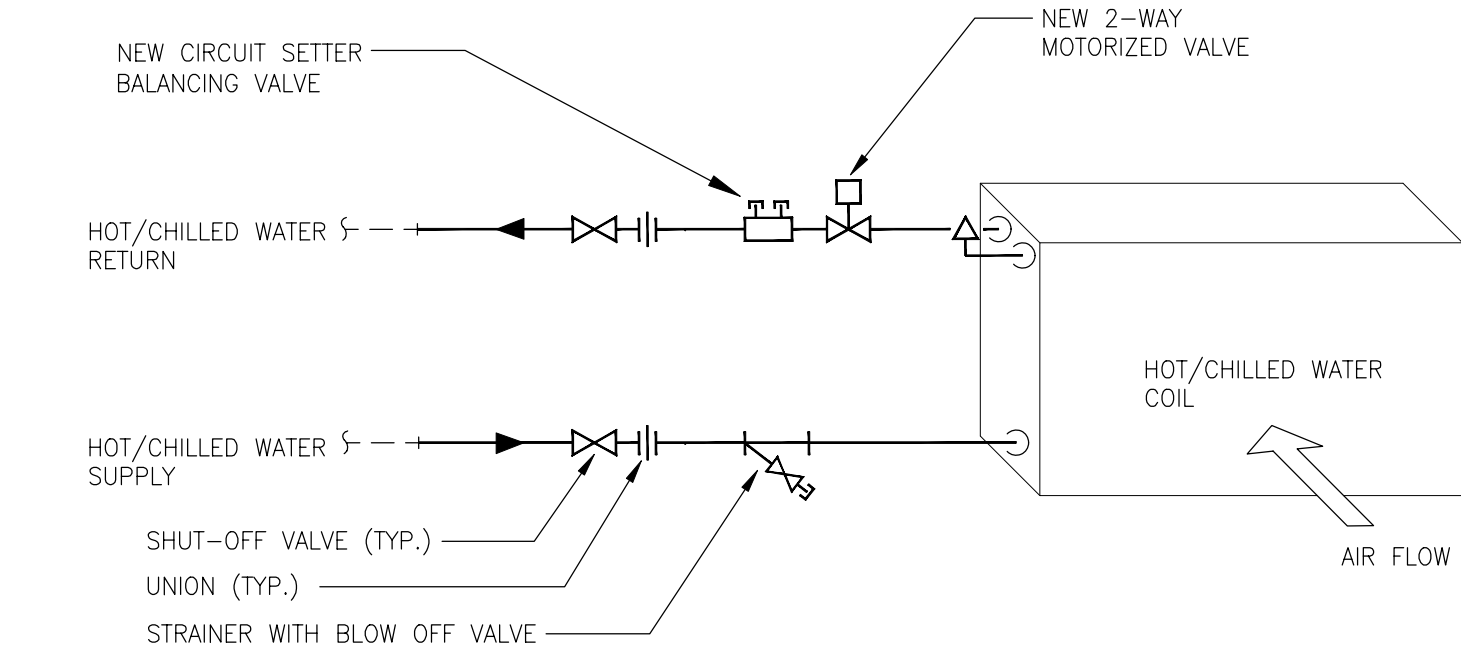
DRAWING TITLE
MECHANICAL
DETAILS

COMMISSION NUMBER:
20K009

AGENCY NUMBER:

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:
M3.1

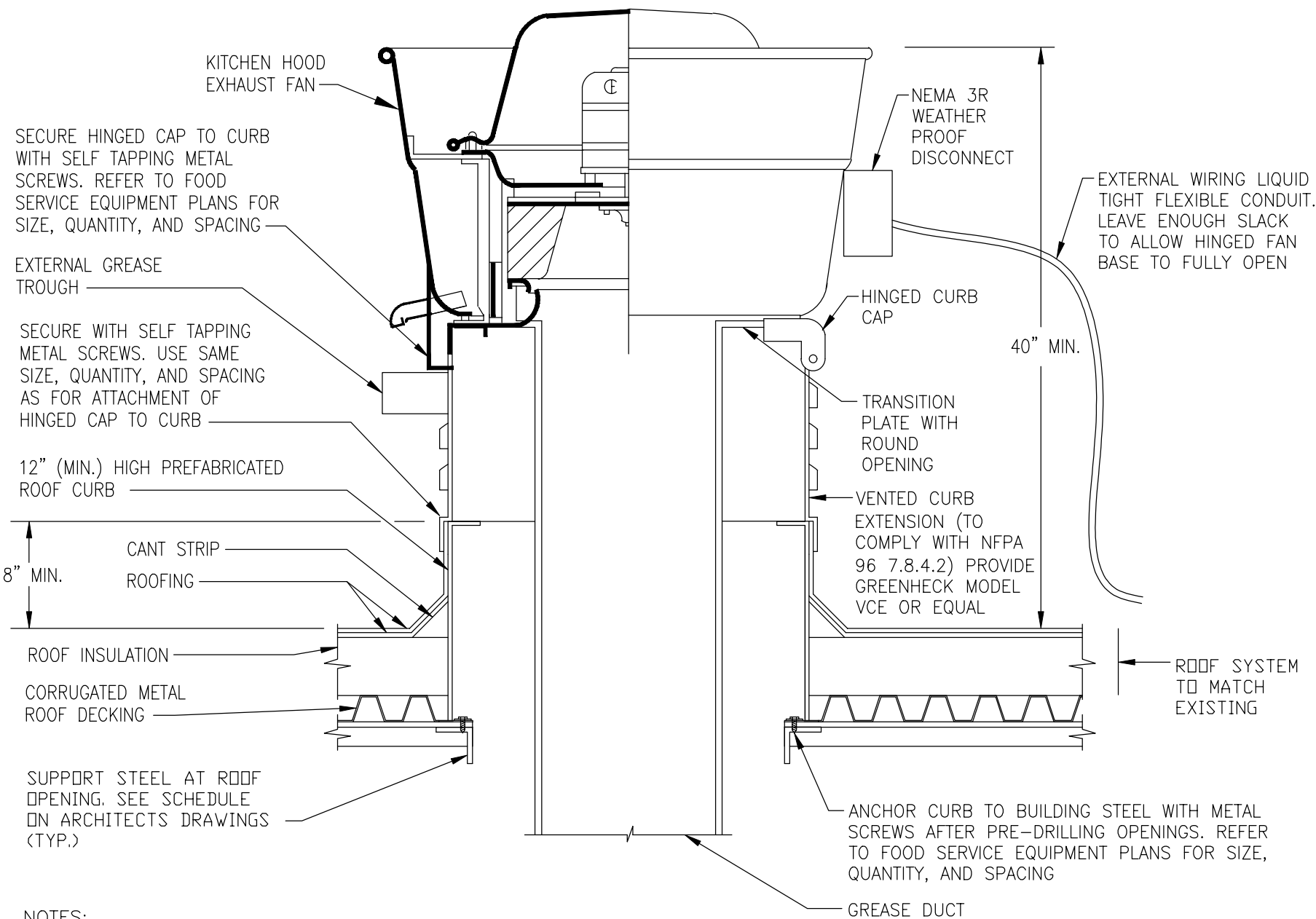


- NOTES:
1. PROVIDE AIR VENTS ON ALL HIGH POINTS AND / OR WHERE AIR CAN BE TRAPPED IN PIPING.
 2. ALL PIPING TO BE THROUGH BOTTOM OF THE UNIT.
 3. SEE FLOOR PLANS FOR PIPING SIZES.
 4. PROVIDE COIL FREEZE PROTECTION WITH FREEZESTAT INTERLOCKED WITH CONTROL VALVE. SEE SPECIFICATIONS AND DIAGRAMS FOR MORE DETAILS.
 5. PROVIDE SWING JOINT PIPING CONNECTION TO COIL WITH MINIMUM OF 3 BENDS.

HOT/CHILLED WATER COIL W/ 2-WAY CONTROL VALVE PIPING DETAIL

01
M3.2

NONE

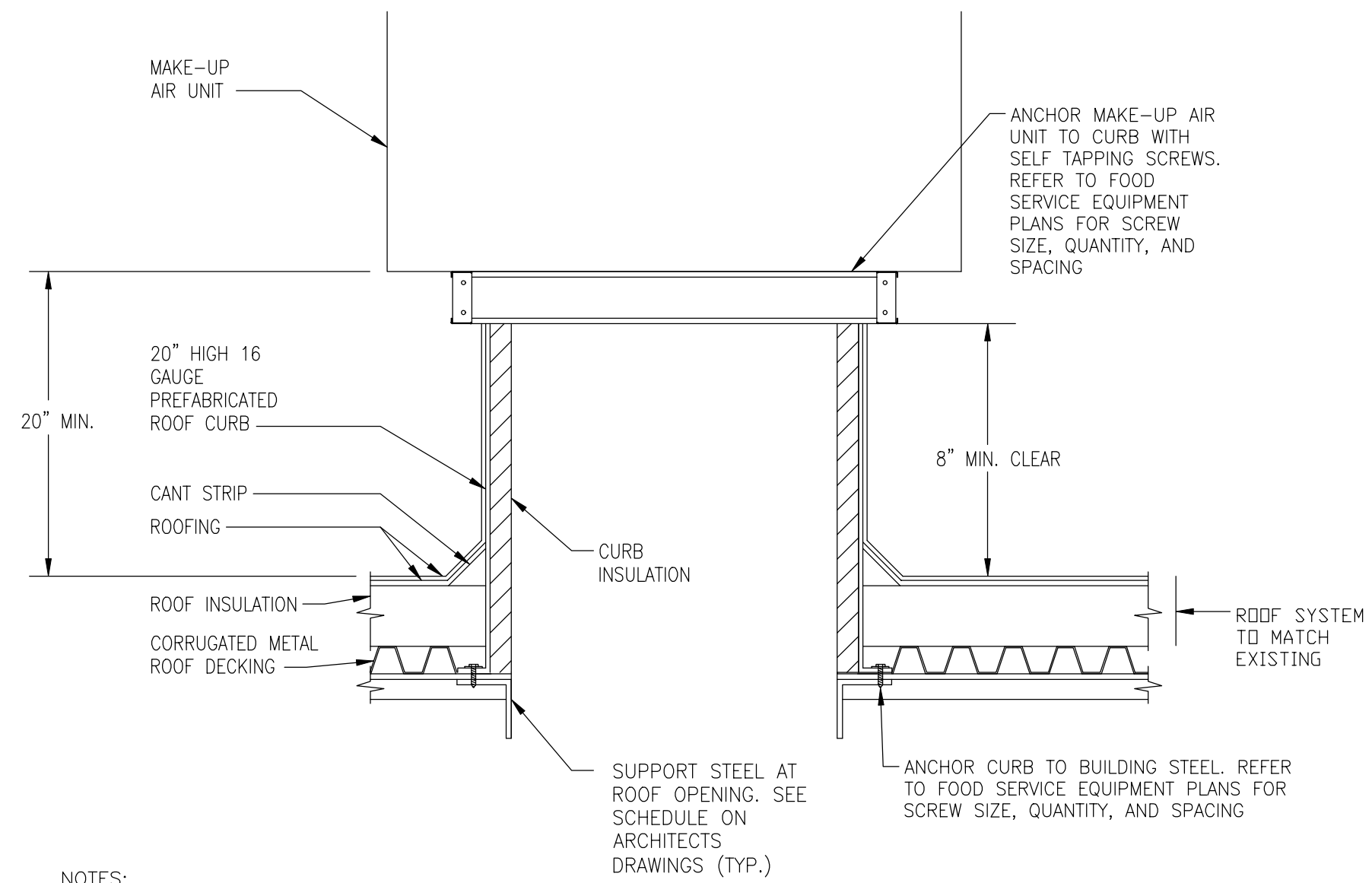


- NOTES:
1. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE THE EXISTING ROOFING WHERE THE NEW EQUIPMENT CURBS ARE TO BE SET AND WHERE NEW PIPING PENETRATIONS THROUGH THE ROOF OCCUR. THE CONTRACTOR SHALL BE RESPONSIBLE TO CUT NEW ROOF OPENINGS FOR NEW PIPING, ETC. AFTER INSTALLATION OF THE DUCT AND EQUIPMENT CURBS, PROVIDE NEW ROOF FLASHING AND COUNTER FLASHING. IF THE ROOF HAS VALID WARRANTY, THE CONTRACTOR SHALL HIRE THE SERVICES OF A CERTIFIED ROOFING CONTRACTOR TO INSTALL ALL CURBS AND DUCT PENETRATIONS SO NOT TO VOID THE ROOF GUARANTEES. COORDINATE WITH THE OWNER AND THE ARCHITECT. THE PIPING SHALL BE INSTALLED TO PROVIDE ADEQUATE CLEARANCE BELOW PIPING FOR FUTURE RE-ROOFING OPERATIONS.

02 COOKING HOOD EXHAUST FAN DETAIL

M3.2

NONE

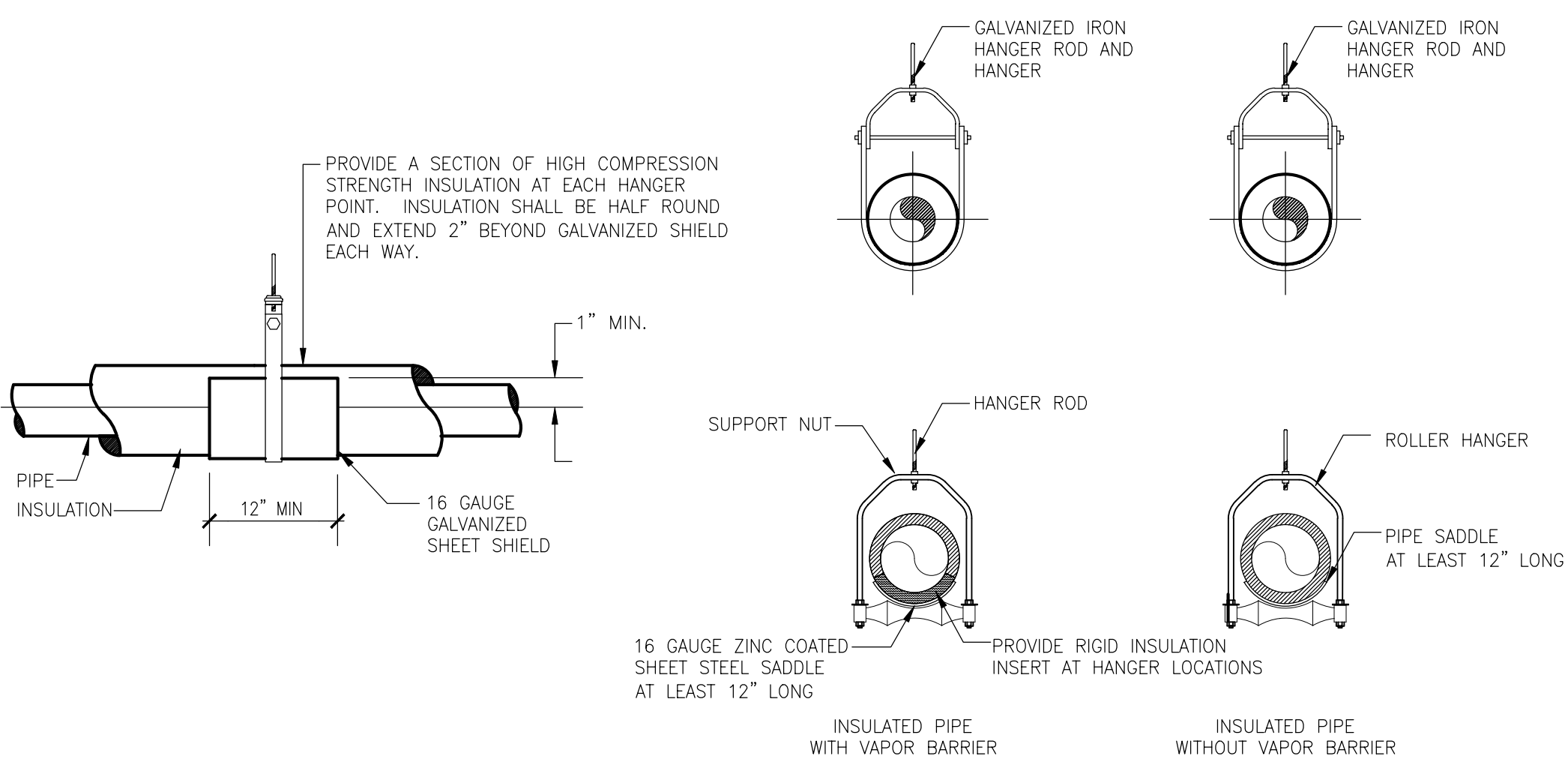


- NOTES:
1. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE THE EXISTING ROOFING WHERE THE NEW EQUIPMENT CURBS ARE TO BE SET AND WHERE NEW PIPING PENETRATIONS THROUGH THE ROOF OCCUR. THE CONTRACTOR SHALL BE RESPONSIBLE TO CUT NEW ROOF OPENINGS FOR NEW PIPING, ETC. AFTER INSTALLATION OF THE DUCT AND EQUIPMENT CURBS, PROVIDE NEW ROOF FLASHING AND COUNTER FLASHING. IF THE ROOF HAS VALID WARRANTY, THE CONTRACTOR SHALL HIRE THE SERVICES OF A CERTIFIED ROOFING CONTRACTOR TO INSTALL ALL CURBS AND DUCT PENETRATIONS SO NOT TO VOID THE ROOF GUARANTEES. COORDINATE WITH THE OWNER AND THE ARCHITECT. THE PIPING SHALL BE INSTALLED TO PROVIDE ADEQUATE CLEARANCE BELOW PIPING FOR FUTURE RE-ROOFING OPERATIONS.

03 MAKE-UP AIR UNIT ROOF CURB

M3.2

NONE

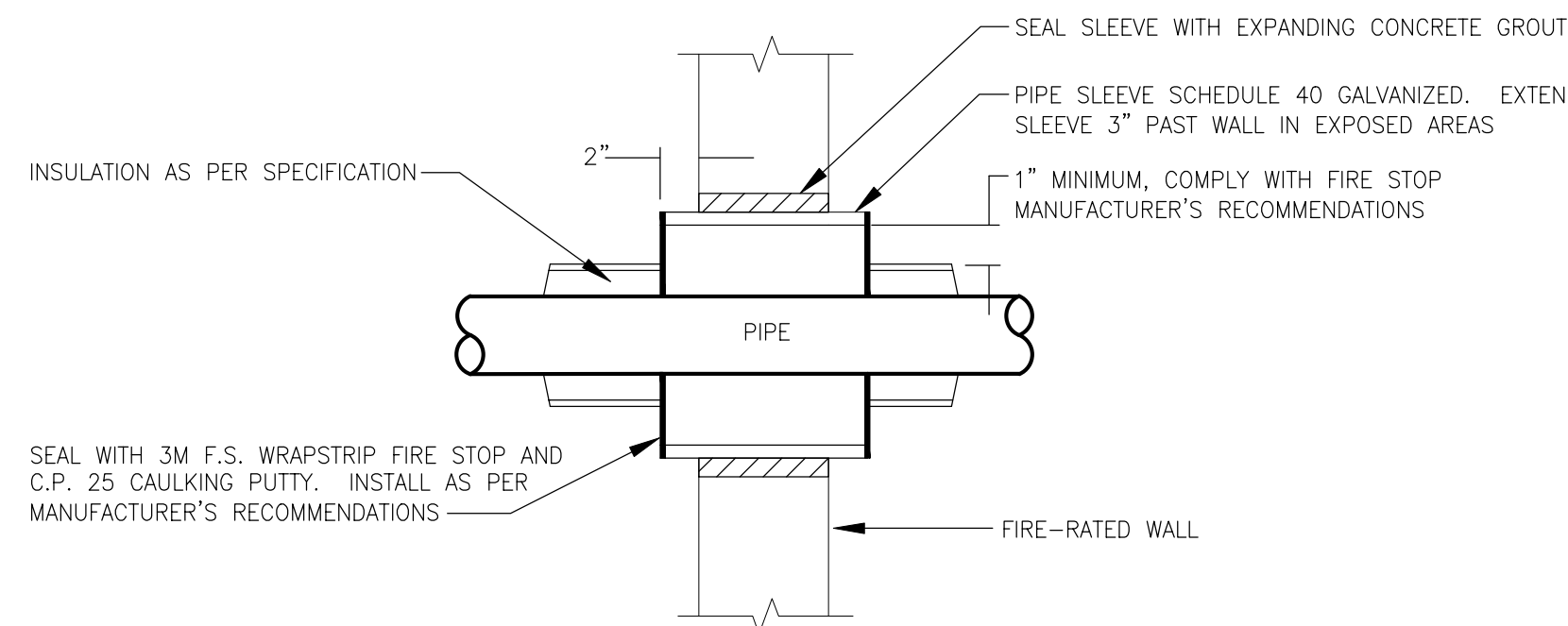


04 PIPE HANGER DETAIL

M3.2

NONE

HANGER ROD SIZE/SPACING SCHEDULE						
PIPE SIZE	WEIGHT PER FOOT	MINIMUM HANGER ROD SIZE	MAXIMUM HANGER SPACING			NATURAL GAS
			WASTE & WATER COPPER TYPE M	STEEL SCH. 40	STEEL SCH. 40	
1/2"	1.0	1/4"	6'	5'	6'	
3/4"	1.4	1/4"	6'	6'	8'	
1"	2.1	1/4"	6'	7'	8'	
1-1/4"	2.9	3/8"	6'	9'	10'	
1-1/2"	3.6	3/8"	6'	9'	10'	
2"	5.2	3/8"	10'	10'	10'	
2-1/2"	7.9	1/2"	10'	11'	10'	
3"	10.8	1/2"	-	12'	-	
4"	16.5	5/8"	-	14'	-	
6"	31.5	3/4"	-	17'	-	
8"	47	7/8"	-	19'	-	
10"	70	7/8"	-	22'	-	
12"	94	7/8"	-	23'	-	

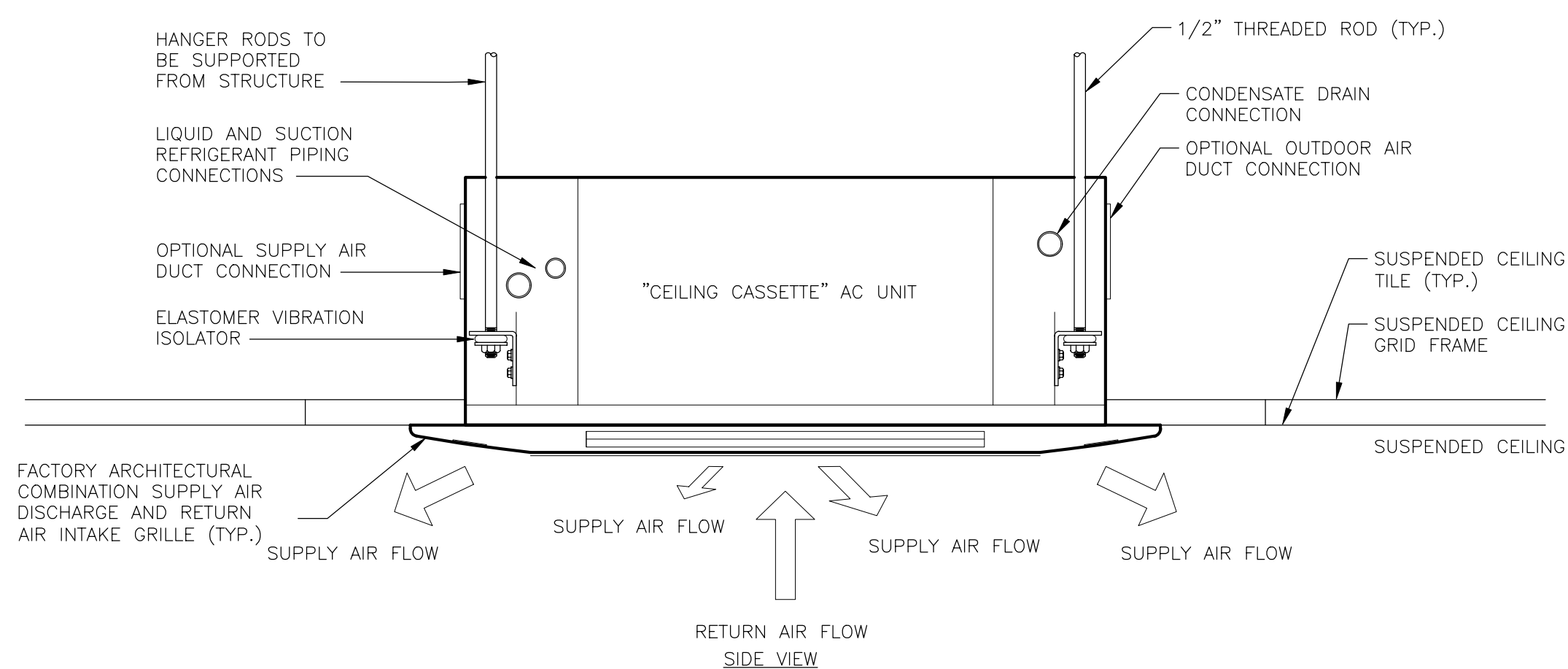


- NOTE:
1. DETAIL SHALL BE APPLIED TO ALL NEW, CORRIDOR WALL PIPING PENETRATIONS AND EXISTING WHICH ARE DAMAGED DURING CONSTRUCTION.

05 PIPE PENETRATION THROUGH FIRE-RATED WALL

M3.2

NONE

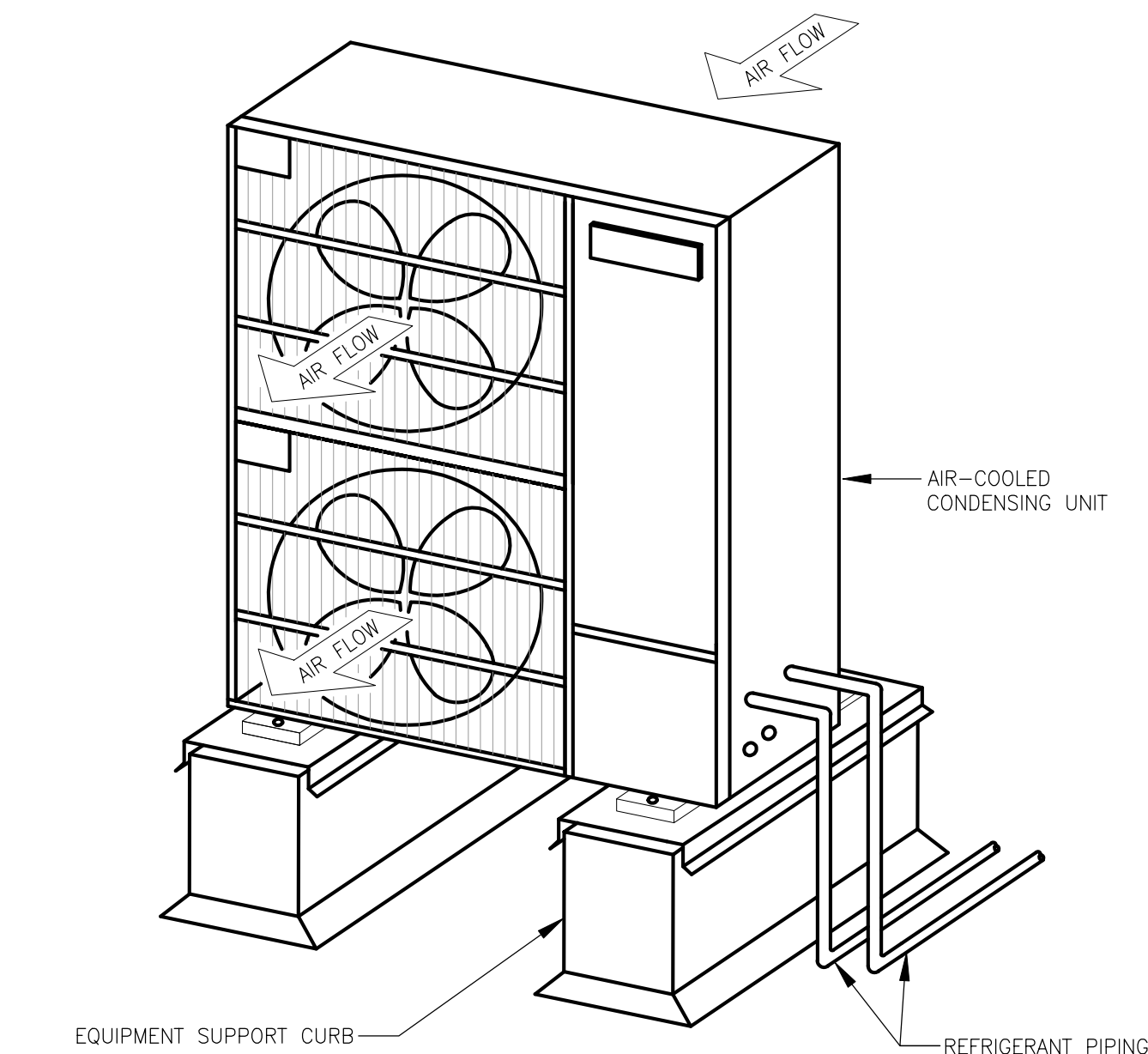


- NOTES:
1. COORDINATE SUPPORTING UNIT FROM STRUCTURE ABOVE WITH FIELD CONDITIONS, STRUCTURAL ENGINEER AND ARCHITECT, AS WELL AS CORRECT METHODS AND RECOMMENDATIONS AS PER THE UNIT MANUFACTURER.
 2. PROVIDE P-TRAP FOR CONDENSATE DRAIN.
 3. CONTRACTOR SHALL SECURE THE UNIT IN ACCORDANCE WITH LOCAL SEISMIC BUILDING CODES.
 4. UNIT SHALL BE PROVIDED WITH FACTORY INTEGRAL CONDENSATE PUMP (33\"/>

DUCTLESS RECESSED CEILING CASSETTE AC UNIT INSTALLATION DETAIL

06
M3.2

NONE

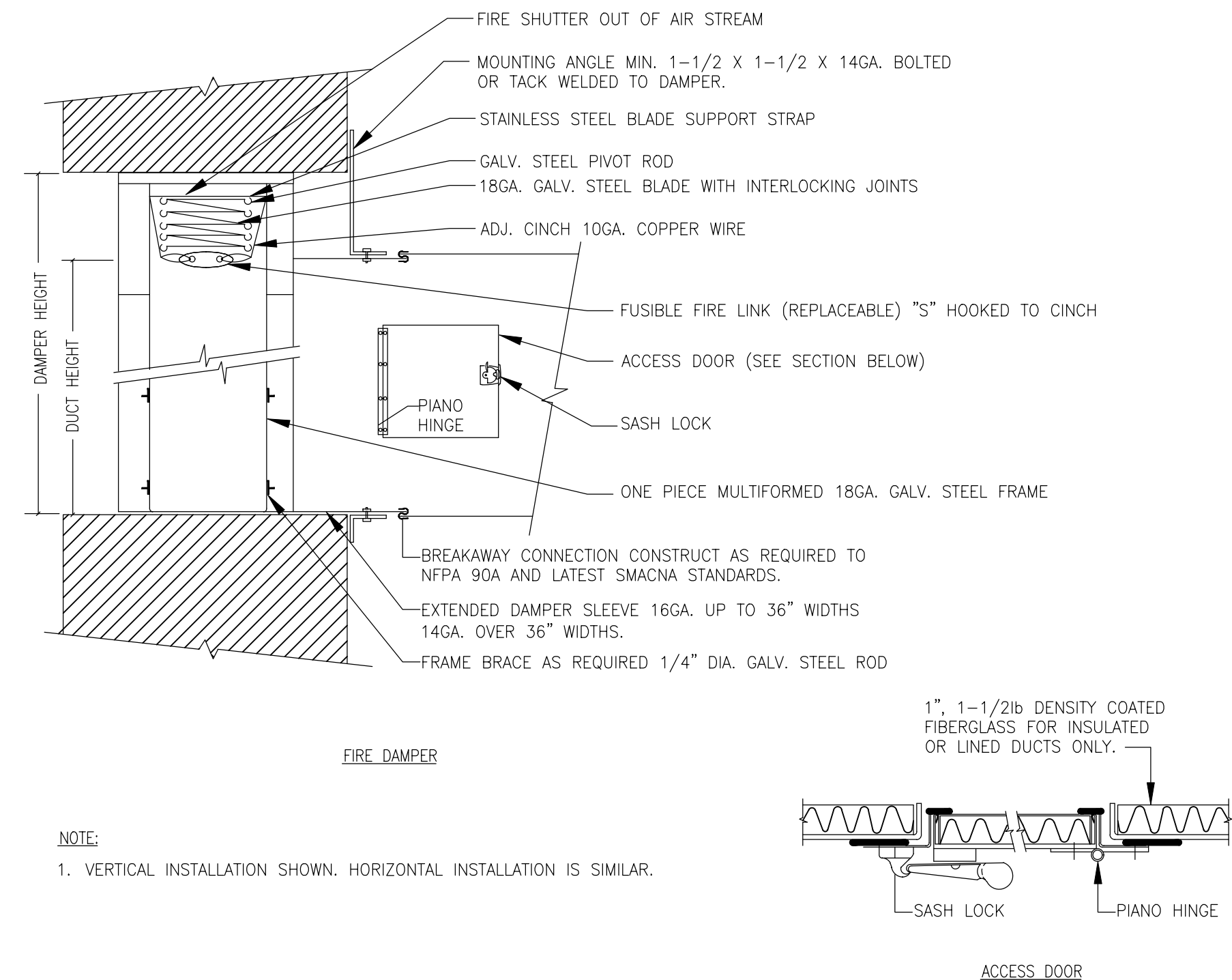


- NOTES:
1. CONTRACTOR SHALL SECURE THE UNIT IN ACCORDANCE WITH LOCAL SEISMIC BUILDING CODES.
 2. PROVIDE REDUCERS/INCREASERS AS REQUIRED FOR CORRECT CONNECTION TO UNIT.
 3. SIZE AND INSTALL ALL REFRIGERANT PIPING AND PROVIDE QUANTITIES AS PER THE MANUFACTURER'S RECOMMENDATIONS (QUANTITIES SHOWN ARE FOR DIAGRAMMATIC PURPOSES).
 4. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE THE EXISTING ROOFING WHERE THE NEW EQUIPMENT CURBS ARE TO BE SET. AFTER INSTALLATION OF THE EQUIPMENT CURBS, PROVIDE NEW ROOF FLASHING AND COUNTER FLASHING. IF THE ROOF HAS VALID WARRANTY, THEN THE CONTRACTOR SHALL HIRE THE SERVICES OF THE OWNER'S CERTIFIED ROOFING CONTRACTOR TO PERFORM ALL WORK OF INSTALLING CURBS NOT TO VOID THE ROOF GUARANTEES (COORDINATE WITH OWNER).

07 AIR COOLED CONDENSING UNIT DETAIL

M3.2

NONE



- NOTE:
1. VERTICAL INSTALLATION SHOWN. HORIZONTAL INSTALLATION IS SIMILAR.

08 FIRE DAMPER DETAIL

M3.2

NONE

CODE REVIEW:

CERTIFICATE:



SPIEZE ARCHITECTURAL GROUP INC.
1395 YARDVILLE HAMILTON SQUARE ROAD
SUITE 2A
HAMILTON, NJ 08621
Phone: 609-695-7400

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THOMAS S. PERRINO 21A01505400
SCOTTE DOWNE 21A01674400
STEVEN LEONE 21A01170100
STEVEN S. SPIEZE 21A01584200
SPIEZE ARCHITECTURAL GROUP, INC. 21A020063000

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CONSULTANTS:



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PAUL RUPNSKI, N.J.P.E. LICENSE NUMBER 4515900
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DATE:
KSI PROJECT #: 201006_04

90% 9/18/20

PROJECT:

KITCHEN
UPGRADES AND
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COMMISSION NUMBER:

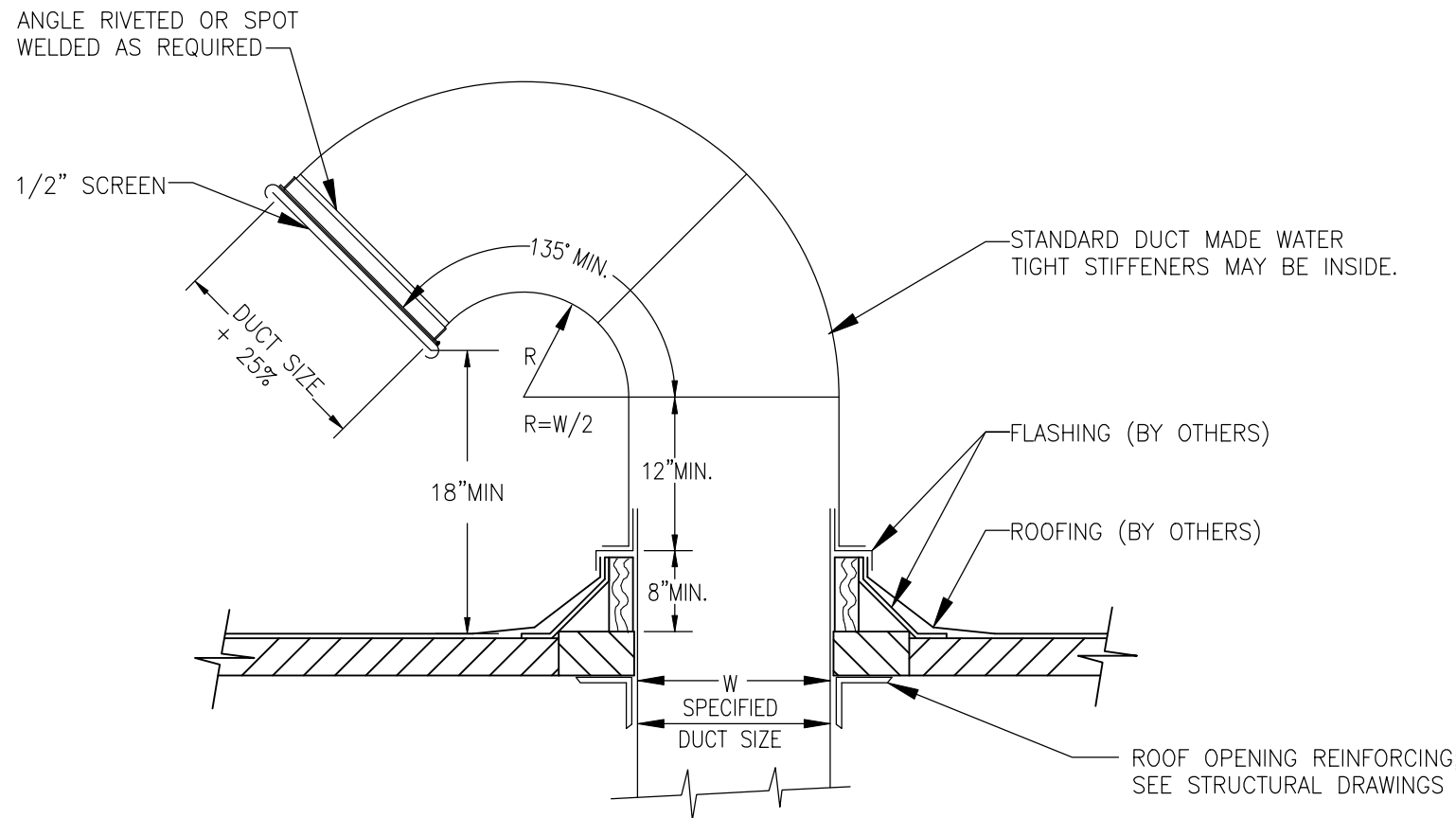
20K009

AGENCY NUMBER:

DO NOT SCALE THE DRAWINGS

DRAWING
NUMBER:

M3.2



01
M3.3
NONE

GOOSENECK DETAIL

CODE REVIEW:

CERTIFICATE:



SPIEZLE ARCHITECTURAL GROUP INC.
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HAMILTON, NJ 08621
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SCOTT E. DOWNE 21A011874400
STEVEN LEONE 21A011701100
STEVEN G. SIEBEL 21A011584200
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RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM,
WITHOUT PERMISSION IN WRITING FROM KSI CONSULTING ENGINEERS, LLC.
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DRAWING SHALL BE CONSIDERED A VIOLATION OF BOTH THE PROFESSIONAL
CONDUCT RULES AND A TRUST FOR COMPANY ABUSE, BOTH OF WHICH SHALL BE
PROSECUTED TO THE FULLEST EXTENT OF CURRENT STATUTES.

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Δ	REVISION NAME	DATE

FOR BID: DDMMYYYY

DRAWING TITLE:

MECHANICAL
DETAILS

COMMISSION NUMBER:
20K009

AGENCY NUMBER:

DO NOT SCALE THE DRAWINGS
DRAWING
NUMBER

M3.3

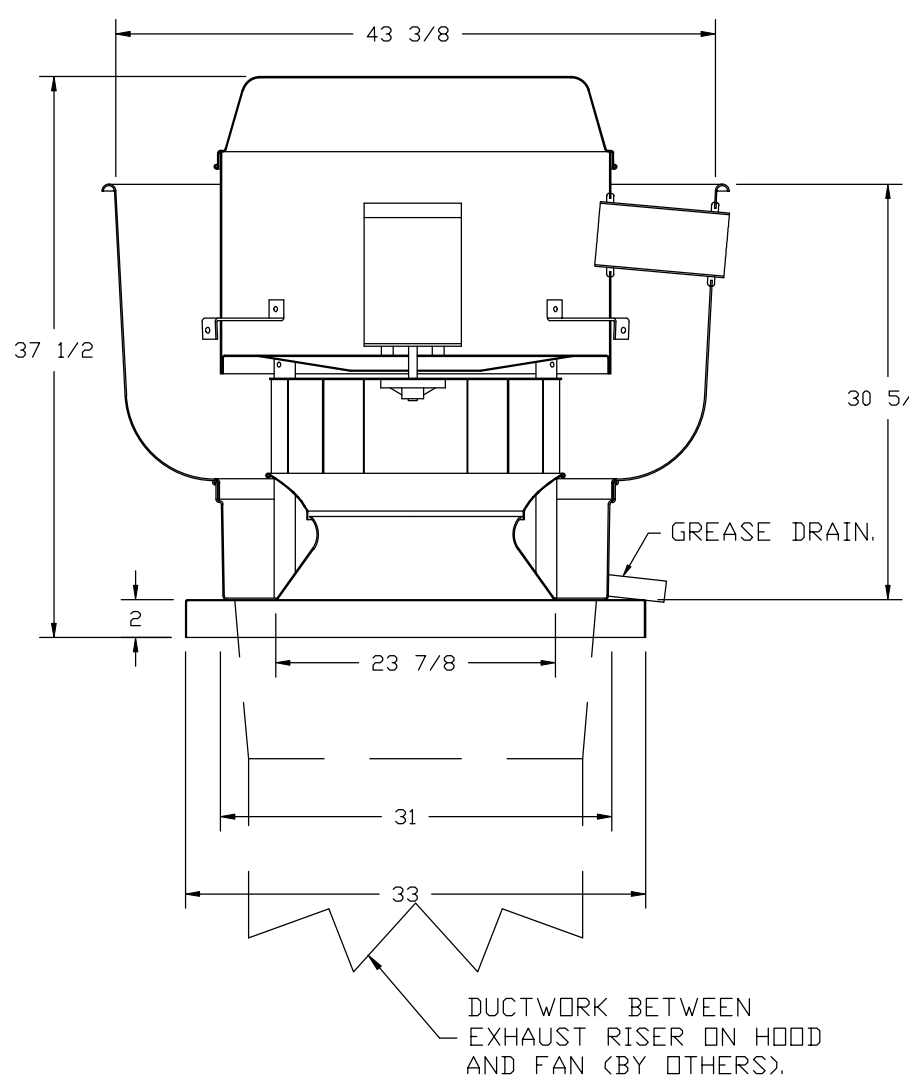
FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX.
		1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST.
		1	LOAD REACTOR MOUNTED IN FAN.
2	MUA-1	1	STANDARD ELECTRICAL CONNECTION (MAIN AND CONTROL PANEL) FOR STANDING POWER - SINGLE MODULE. IF A NON-DCV PREWIRE IS USED ON THE 1BT HEATER, THE 1RB, #47, 'NS', 'MA', OR 'E2' OPTION PREWIRE MUST BE SELECTED. DO NOT PROVIDE SUPPLY STARTER IN PREWIRE.
		1	MOTORIZED BACKDRAFT DAMPER FOR A2-1 HOUSING.
		1	INLET PRESSURE GAUGE, 0-35".
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE.
		1	1BT SIZE 1 & 2 SIDE DISCHARGE.
		1	MIAMI DADE CERTIFICATION - NDA-2 SUPPLY.
		1	FREEZESTAT.
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY.
		1	LOAD REACTOR MOUNTED IN FAN.

CURB ASSEMBLIES

NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	76 LBS	CURB	31.500"W X 31.500"L X 24.000"H RIGHT VENTED HINGED 16 GAUGE.
2	# 2	MUA-1	126 LBS	CURB	31.000"W X 97.188"L X 20.000"H RIGHT INSULATED 16 GAUGE.

FAN #1 DU240HFA - EXHAUST FAN (KEF-1)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL785 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- WEATHERPROOF DISCONNECT.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST

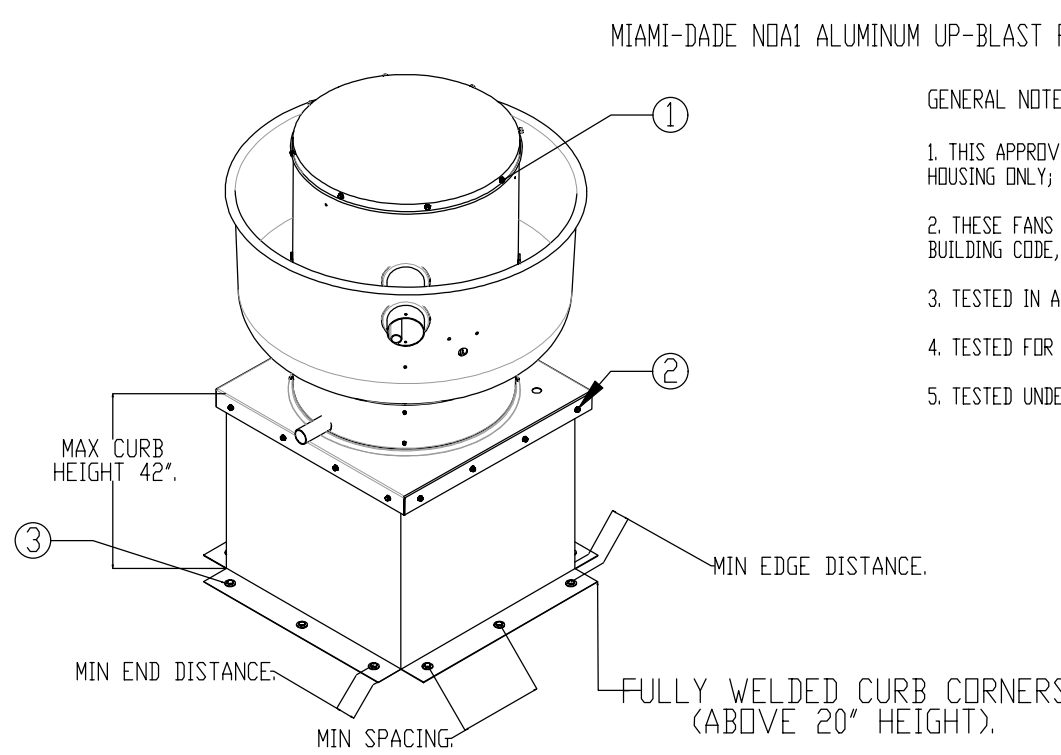
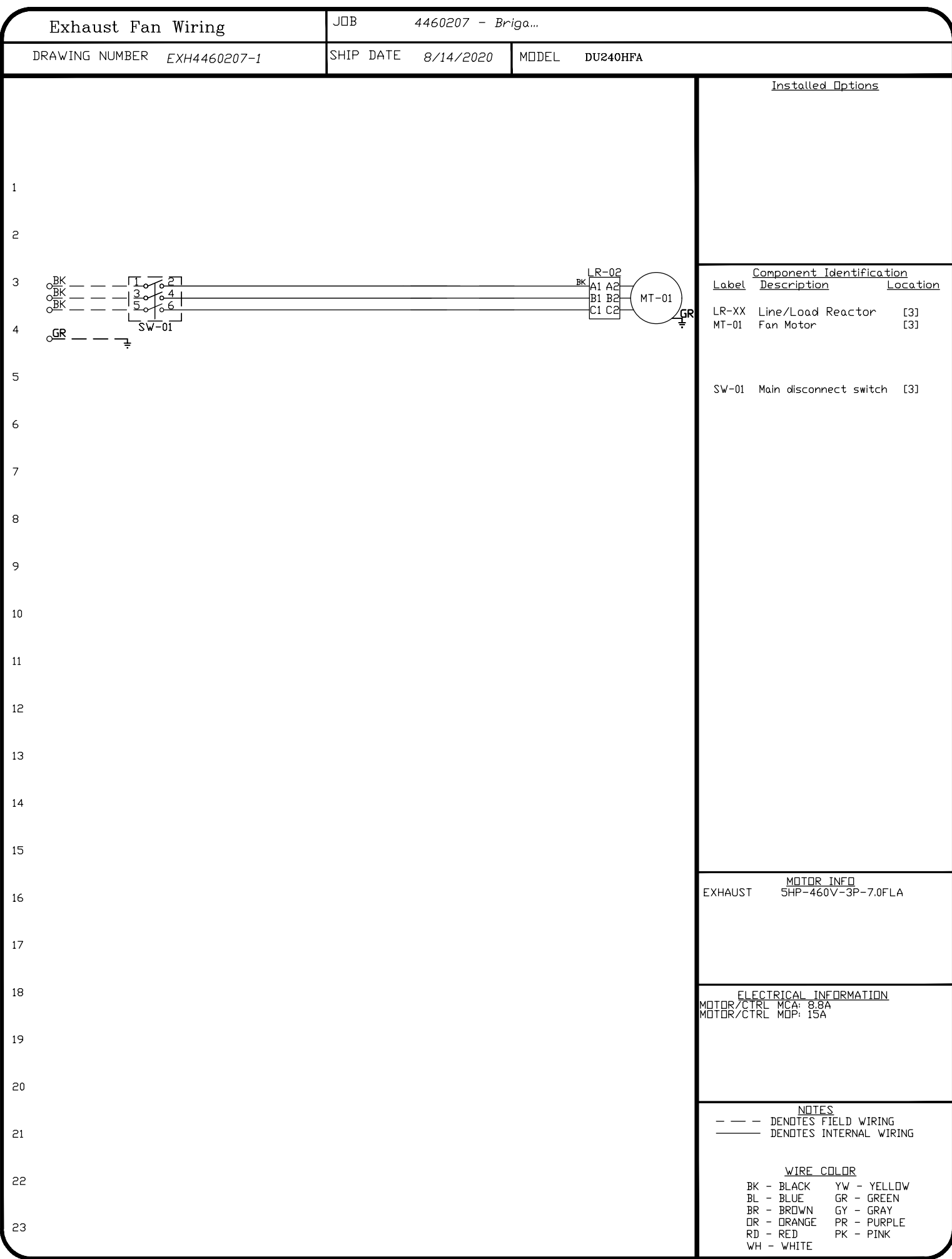
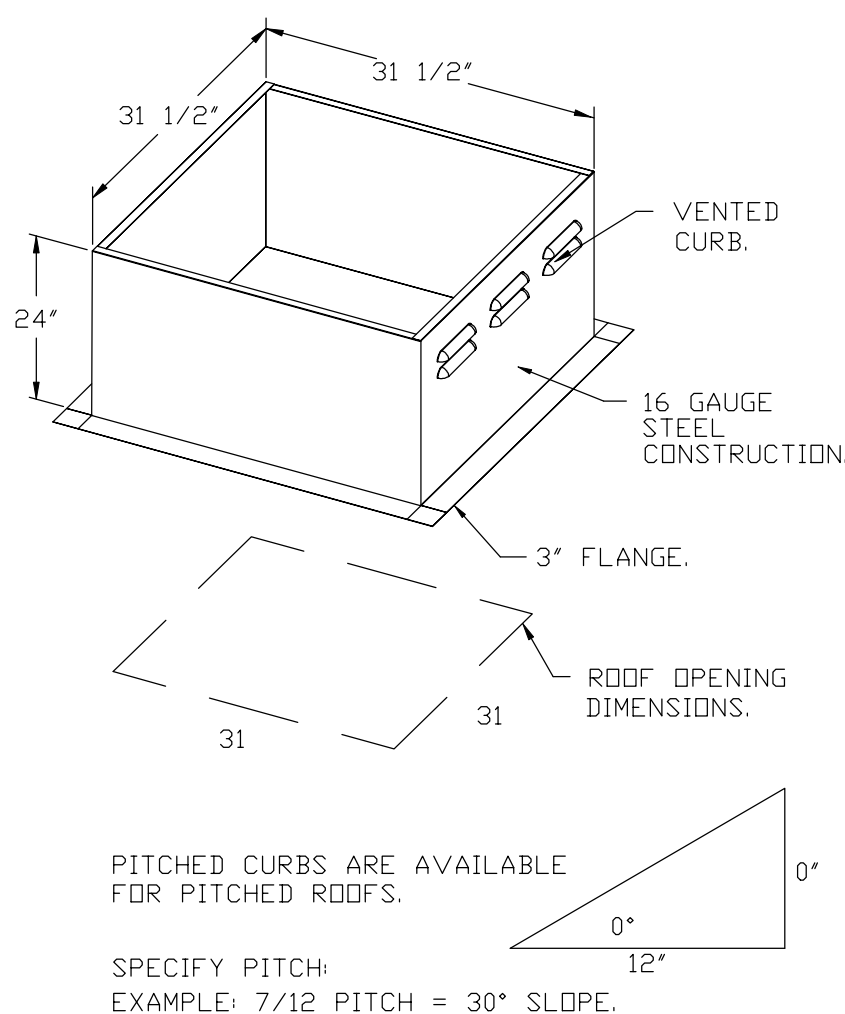
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX.
MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST.
LOAD REACTOR MOUNTED IN FAN.



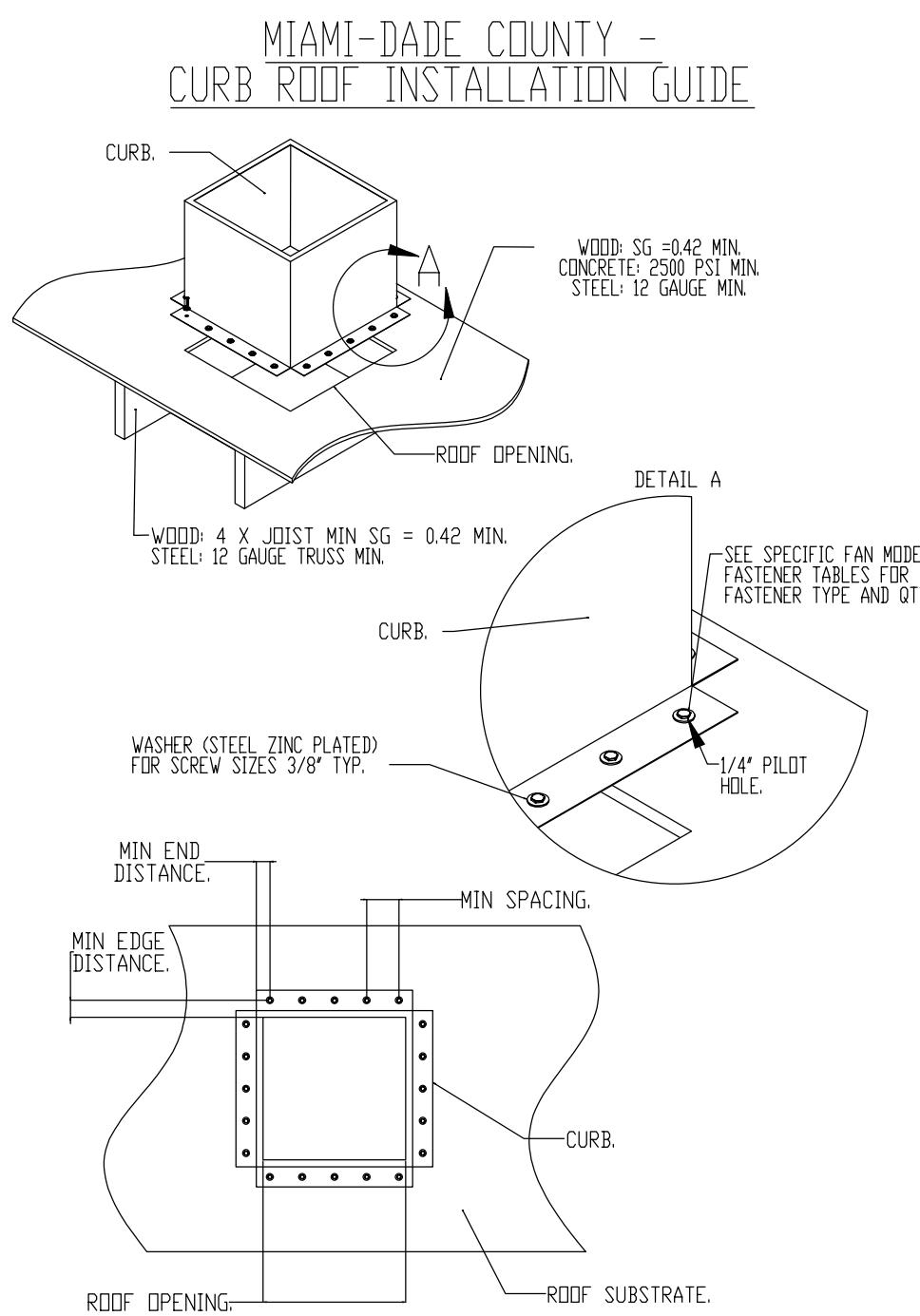
MIAMI-DADE NDA1 ALUMINUM UP-BLAST FANS

GENERAL NOTES:

1. THIS APPROVAL IS FOR THE STRUCTURAL CAPACITY AND IMPACT RATING OF THE EXTERIOR HOUSING ONLY. IT DOES NOT INCLUDE ANY INTERIOR MECHANISM OR ELECTRICAL PART.
2. THESE FANS HAVE NOT BEEN WIND TESTED FOR WIND DRIVEN RAIN TEST PER FLORIDA BUILDING CODE, TAS200 VA-95.
3. TESTED IN ACCORDANCE TO FLORIDA BUILDING CODE TEST PROTOCOL TAS200, TAS282, TAS283.
4. TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
5. TESTED UNDER MIAMI-DADE COUNTY NOTIFICATION NUMBER AT1-08033.

INSTALLATION INSTRUCTIONS:

1. SECURE LID TO FAN USING (8) 1/4"-14 X 1" ZINC PLATED STEEL SELF DRILLING SHEET METAL SCREWS WITH RUBBER WASHER SPACED EVENLY AROUND LID.
2. SECURE FAN BASE TO CURB USING 1/4"-14 X 2" GALVANIZED SELF DRILLING SCREWS (400" OR BETTER) THROUGH PRE-PUNCHED HOLES IN THE FAN BASE. (SEE TABLE BELOW FOR FASTENER TYPE, USE TABLE BELOW FOR FASTENER QTY).
3. SECURE CURB TO ROOF OR WALL BY DRILLING 1/4" DIA. PILOT HOLES IN THE CURB FLANGE AT LOCATIONS SHOWN IN THE DIAGRAM. (SEE TABLE BELOW FOR FASTENER TYPE, USE TABLE BELOW FOR FASTENER QTY).



CURB MATERIAL:
20" HIGH & LESS = 20 GA. STEEL
ABOVE 20" THRU 42" = 16 GA. STEEL.

DESIGN PRESSURE: +1500 / -1500 PSF.
LARGE MISSILE IMPACT RESISTANT.

INSTALLATION FASTENER TYPES

INSTALLATION FASTENER TYPES															
FAN TO CURB		WOOD (SG = 0.42 MIN.)				STEEL (12 GAUGE MIN.)				CONCRETE (2500 PSI MIN. CRACKED CONCRETE)					
FASTENER	5/16"-18 X 2" SELF DRILLING SCREW (ELCO DRIL-FLEX OR BETTER)	3/8" DIA. ZINC PLATED LAG BOLT				1/4"-14 DRIL-FLEX SELF DRILLING SCREW				3/8" DIA. SS HILTI KWIK BOLT 1/2" EXPANSION ANCHOR					
MINIMUM THREAD PENETRATION	N/A	2-1/2"				12 GAUGE				2"					
MINIMUM EDGE DISTANCE	N/A	1-1/2"				3/8"				3"					
MINIMUM END DISTANCE	N/A	2-5/8"				3/8"				3"					
MINIMUM SPACING	N/A	1-1/2"				3/4"				5-1/2"					

INSTALLATION FASTENER QTY																
FAN MODEL	CURB TO FAN (ROOF)		CURB TO FAN (WALL)		WOOD (ROOF)		WOOD (WALL)		STEEL (ROOF)		STEEL (WALL)		CONCRETE (ROOF)		CONCRETE (WALL)	
	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL
DU240	3	12	3	12	6	24	6	24	7	28	7	28	6	24	6	24

CODE REVIEW:

CERTIFICATE:



SPIEGLE ARCHITECTURAL GROUP INC.
1395 YARDVILLE HAMILTON SQUARE ROAD
SUITE 2A
HAMILTON, NJ 08621
Phone: 609-695-7400

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SCOTTE DOWNE 21A01674400
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STEVEN S. SPIEGEL 21A01584200
SPIEGLE ARCHITECTURAL GROUP, INC. 21A000603000

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CONSULTANTS:



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KSI PROJECT # 201006_04

90% 9/18/20

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KITCHEN
UPGRADES AND
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ALTERATIONS AT
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OF EDUCATION

301 E Evans
Brigantine, NJ 0820

FOR CODE REVIEW: DDMM/YYYY

REVISIONS:

REVISION NAME	DATE
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FOR BID: DDMM/YYYY

DRAWING TITLE:

MECHANICAL
DETAILS FOR
KITCHEN EXHAUST
FAN (KEF-1)

COMMISSION NUMBER:

20K009

AGENCY NUMBER:

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

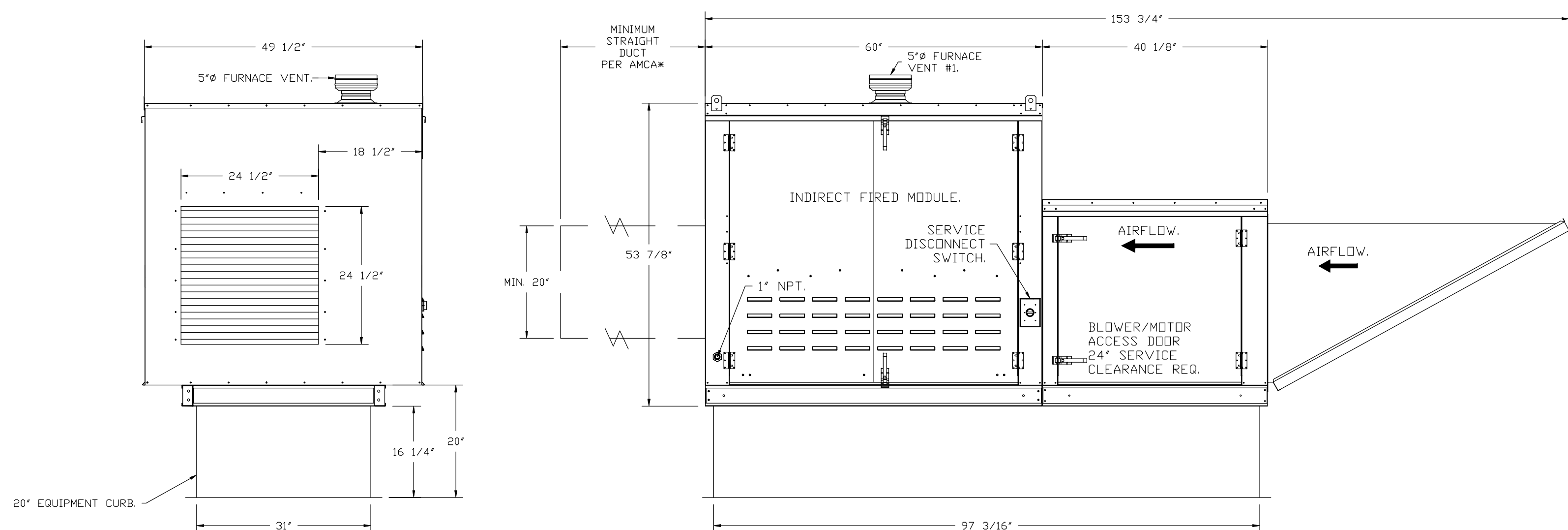
M3.4

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE. OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO FOLLOW DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 20" x 20"

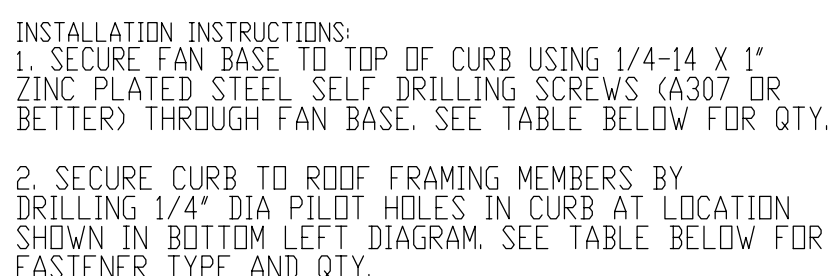
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WINTER TEMPERATURE = 15°F.  TEMP. RISE = 60°F
BTUS CALCULATED OFF ACTUAL AIR DENSITY
OUTPUT BTUS AT ALTITUDE OF 0.0 FT. = 252710.
INPUT BTUS AT ALTITUDE OF 0.0 FT. = 315888.
OUTPUT BTUS AT ALTITUDE OF 16 FT. = 252564.
INPUT BTUS AT ALTITUDE OF 16 FT. = 315705.

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2. THESE FANS HAVE NOT BEEN WIND TESTED FOR WIND DRIVEN RAIN TEST PER FLORIDA BUILDING CODE, TAS200 (4)-95.
3. TESTED IN ACCORDANCE TO FLORIDA BUILDING CODE TEST PROTOCOL TAS200, TAS202, TAS203
4. TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONED.
5. TESTED UNDER MIAMI-DADE COUNTY NOTIFICATION NUMBER A71-08034

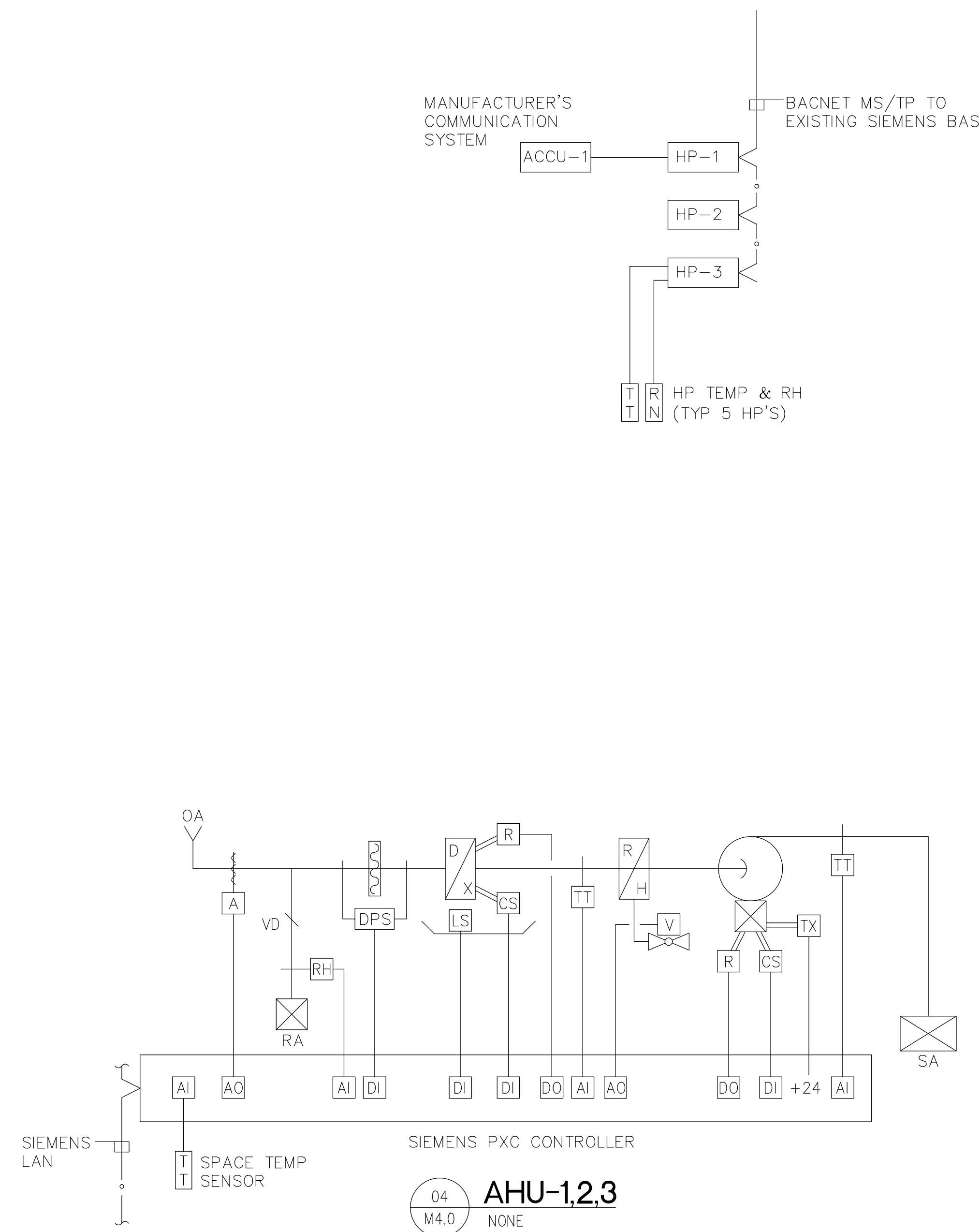


DESIGN PRESSURE: +30.0 / -130.0 PSF
LARGE MISSILE IMPACT RESISTANT

INSTALLATION FASTENER TYPES				
	FAN TO CURB	WOOD (SG = 0.42 MIN.)	STEEL (12 GAUGE MIN.)	CONCRETE (2500 PSI MIN. CRACKED CONCRETE)
FASTENER	1/4"-14 X 1" SELF DRILLING SCREW (A307 OR BETTER)	3/8" DIA. ZINC PLATED LAG BOLT	1/4"-14 DRIL-LEX SELF DRILLING SCREW	3/8" DIA. SS HLTI KWIK BOLT T2 EXPANSION ANCHOR
MINIMUM THREAD PENETRATION	N/A	2"	12 GAUGE	2-5/16"
MINIMUM EDGE DISTANCE	N/A	1-1/2"	3/8"	3"
MINIMUM END DISTANCE	N/A	2-5/8"	3/8"	4"
MINIMUM SPACING	N/A	1-1/2"	3/4"	7"

M3.5

THIS DRAWING IS FORMATTED TO BE PRINTED AT 30"x42"



CODE REVIEW:

CERTIFICATE:



SPIEZLE ARCHITECTURAL GROUP INC.
1395 YARDVILLE HAMILTON SQUARE ROAD
SUITE 2A
HAMILTON, NJ 08691
Phone: 609-695-7400

SIGNATURE:	
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SCOTT E. DOWNE	21A01674400
STEVEN LEONE	21A01170100
STEVEN G. SIEGEL	21A01564200
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CONSULTANTS:



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PHONE: 732.938.2622
FAX: 732.938.2521

CERTIFICATE OF AUTHORIZATION NO. 24GA28124300
PAUL RIPISH, N.J.P.E. LICENSE NUMBER 4515800

ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE ORIGINAL AND UNFULFILLED WORK OF THE ENGINEER. THE REPRODUCTION OF THIS DRAWING FOR THE PURPOSE OF COPYING THIS WORK OR REVENING SAID DRAWING SHALL BE CONSIDERED A VIOLATION OF THE PROFESSIONAL CODE OF ETHICS AND A THEFT OF COMPANY ASSETS. BOTH OF WHICH SHALL BE PROSECUTED TO THE FULLEST EXTENT OF CURRENT STATUTES.

DATE:
KSI PROJECT #: 2010CM_04

90% 9/18/20

PROJECT

KITCHEN
UPGRADES AND
CLASSROOM
ALTERATIONS AT
BRIGANTINE
ELEMENTARY
FOR
BRIGANTINE
OF EDUCATION

301 E Evans
Brigantine, NJ 0820

FOR CODE REVIEW: DD/MM/YYYY

REVISIONS

	REVISION NAME	DATE
---	---------------	------

FOR BID: DD/MM/YYYY

DRAWING TITLE:

MECHANICAL CONTROLS DETAILS

COMMISSION NUMBER:

20K009

AGENCY NUMBER:

DO NOT SCALE THE DRAWINGS

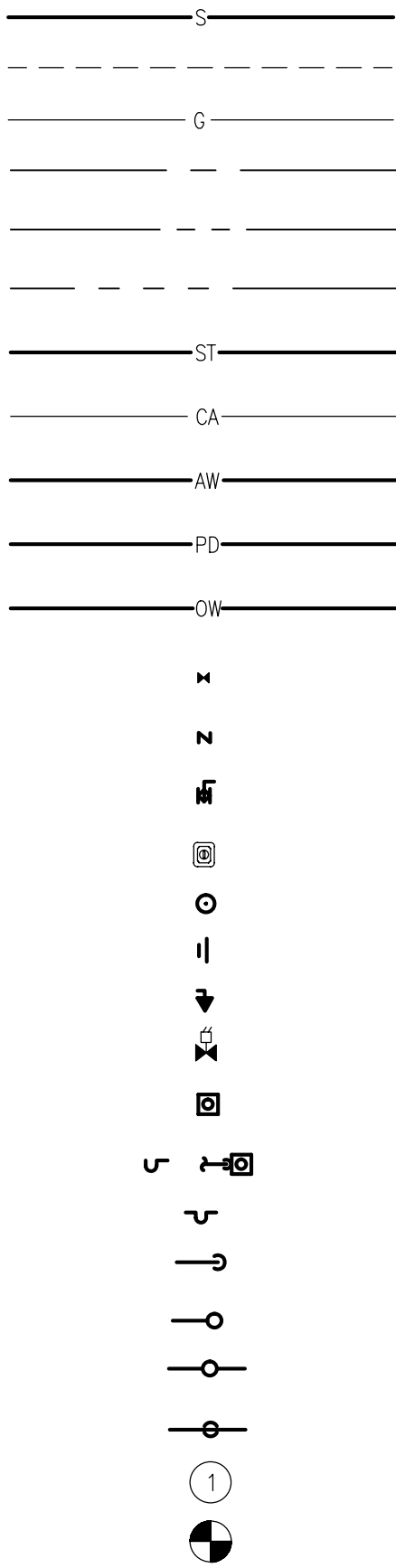
DRAWING
NUMBER:

M4.1

PLUMBING GENERAL NOTES

- DO NOT SCALE FROM THESE DRAWINGS.
- DO NOT MAKE ANY CHANGES OR SUBSTITUTIONS WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER.
- ALL INDICATED WORK SHALL BE PERFORMED BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
- REFER TO THE WRITTEN SPECIFICATIONS IN CONJUNCTION WITH THE PLANS FOR FULL PROJECT SCOPE.
- IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWING TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. IN ADDITION, THIS CONTRACTOR MUST COORDINATE WITH AN OWNER REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
- ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT AND ENGINEER PRIOR TO BID SUBMISSION.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES WHICH MAY BE IN EFFECT. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
- THE PLUMBING CONTRACTOR MUST VISIT THE SITE AND NOTE ALL EXISTING CONDITIONS AS WELL AS ALL CONDITIONS TO BE MET, PRIOR TO BID SUBMISSION. LACK OF A THOROUGH UNDERSTANDING OF THE PROJECT SCOPE AND CONDITIONS SHALL NOT CONSTITUTE AN EXCUSE FOR ERRORS OR OMISSIONS, NOR FOR A REQUEST FOR EXTRA COMPENSATION.
- IT IS CRITICAL THAT THE PLUMBING CONTRACTOR FIELD VERIFIES ALL EXISTING INVERTS PRIOR TO BID SUBMISSION. IF ANY CONFLICTS EXIST BETWEEN THE NEW PLUMBING SYSTEMS AND THE EXISTING SITE LEVEL SYSTEMS, THEY SHOULD BE BROUGHT TO THE ATTENTION OF AN OWNER'S REPRESENTATIVE AND THE ENGINEER PRIOR TO BID SUBMISSION. EXTRA COMPENSATION WILL NOT BE ALLOWED FOR ANY EXTRA WORK WHICH RESULTS FROM AN INABILITY TO MEET THE INVERTS OF THE EXISTING SITE LEVEL PIPING SYSTEMS.
- THE PLUMBING CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS-BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT CONCEALED OR EMBEDDED PIPING, CONNECTIONS AND ACCESS DOORS. THESE DRAWINGS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM BID DOCUMENTS.
- RUN ALL DOMESTIC, WASTE & VENT PIPING AS HIGH AS POSSIBLE THROUGHOUT ENTIRE BUILDING. INSTALL LONG RUNS OF PIPING WITHIN STEEL (JOIST) SPACE AND OTHER PIPING TIGHT TO BOTTOM OF STEEL. COORDINATE AND VERIFY WITH OTHER CONTRACTORS AS NOT TO INTERFERE WITH DUCTWORK, FIRE PROTECTION PIPING, LIGHTING SYSTEMS, ETC.
- ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS. VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND THEIR FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES, WALLS, SOFFITS WITH OTHER MECHANICAL/ELECTRICAL FEEDS. ALL SUCH LOCATIONS ARE TO BE REVIEWED WITH A OWNER REPRESENTATIVE AND ARCHITECT PRIOR TO INSTALLATION.
- ALL PLUMBING FIXTURES/APPLIANCES SHALL HAVE THEIR OWN INDEPENDENT SHUT-OFF VALVES, INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION.
- ALL DOMESTIC WATER BRANCH LINES SHALL HAVE THEIR OWN RESPECTIVE SHUT-OFF VALVES.
- DOMESTIC HOT WATER HEATER TEMPERATURE/PRESSURE RELIEF VALVES SHALL BE PIPED FULL SIZE TO THE NEAREST APPROVED STANDPIPE OR FLOOR DRAIN. THIS REQUIREMENT SHALL BE APPLICABLE TO ALL DOMESTIC WATER HEATERS EXCEPT INSTANTANEOUS WATER HEATERS.
- ALL PLUMBING VENT LINES NOTED AS "V, UP" OR "VENT UP" SHALL BE CONNECTED TO THE NEAREST APPROVED "V.T.R." OR "VENT THRU ROOF."
- PRIOR TO INSTALLING SYSTEMS, THE PLUMBING CONTRACTOR SHALL MEET WITH THE ARCHITECTS REPRESENTATIVE TO FIELD VERIFY THE EXACT LOCATION OF ALL PROPOSED EQUIPMENT WHICH MAY NOT BE CLEARLY INDICATED ON THE DRAWINGS.
- PROVIDE C.O.'S AT THE BASE OF ALL SANITARY AND STORM STACKS.
- SANITARY SEWER PIPING SHOWN IS BASED ON .25" PER FOOT FALL FOR ALL PIPING SMALLER THAN 4", AND .125" PER FOOT FALL FOR ALL PIPING 4" AND LARGER.
- PROVIDE ALL SAW CUTTING AND PATCHING AS REQUIRED TO ACCOMMODATE ALL NEW PIPING AND FIXTURE INSTALLATION.
- LEAD FREE REQUIREMENT: PRODUCTS DESIGNED FOR DISPENSING POTABLE WATER SHALL MEET NSF 61 AND NSF 372 TEST STANDARDS VIA THIRD-PARTY TESTING AND CERTIFICATION.
- COORDINATE ALL DECK PENETRATIONS WITH PLANK, USING ANY AND ALL EXCEPTED MEANS TO VERIFY STEEL PLACEMENT PRIOR TO CORE CUTS.

PLUMBING SYMBOLS



SANITARY WASTE
VENT LINE
NATURAL GAS
COLD WATER
HOT WATER
HOT WATER RETURN
STORM SEWER
COMPRESSED AIR
ACID WASTE
PUMP DISCHARGE
OIL WASTE
BALL VALVE
CHECK VALVE
BALANCING VALVE
GAS PRESSURE REGULATOR
CLEAN OUT DECK PLATE
HORIZONTAL CLEANOUT
GAS COCK
GAS SOLENOID VALVE
FLOOR DRAIN
P TRAP
TRAP
PIPE DOWN, DROP & RISE
PIPE UP
TEE PLAN UP
TEE PLAN DOWN
KEY NOTE
CONNECT TO EXISTING

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT.

PLUMBING ABBREVIATIONS

A.F.W.H.	ANTI-FREEZE WALL HYDRANT
A.D.	ACCESS DOOR
A.F.F.	ABOVE FINISHED FLOOR
B.F.P.	BACK FLOW PREVENTOR
CA	COMPRESSED AIR
CO	CLEAN OUT
C.O.D.P.	CLEAN OUT DECK PLATE
D.I.	DRAINAGE INLET
EXIST.	EXISTING
E.W.C.	ELECTRIC WATER COOLER
F.A.I.	FRESH AIR INLET
FD.	FLOOR DRAIN
G.E.	GRADE ELEVATION
H.B.	HOSE BIBB
I.E.	INVERT ELEVATION
LAV.	LAVATORY
LDR.	LEADER
N.C.	NORMALLY CLOSED
N.I.C.	NOT IN CONTRACT
O.F.	OVERFLOW LEADER
O.R.D.	OVER-FLOW ROOF DRAIN
O.W.	OIL WASTE
R.D.	ROOF DRAIN
S.	SANITARY
SK.	SINK
S.S.	SERVICE SINK
ST	STORM DRAINAGE
T.E.	TOP ELEVATION
UR.	URINAL
VAC.	VACUUM
V.B.	VACUUM BREAKER
V.T.R.	VENT THRU ROOF
W.	WASTE
W.C.	WATER CLOSET
W.C.O.	WALL CLEAN OUT

NOTE: NOT ALL ABBREVIATIONS ARE USED ON THIS PROJECT.

PLUMBING FIXTURE SCHEDULE

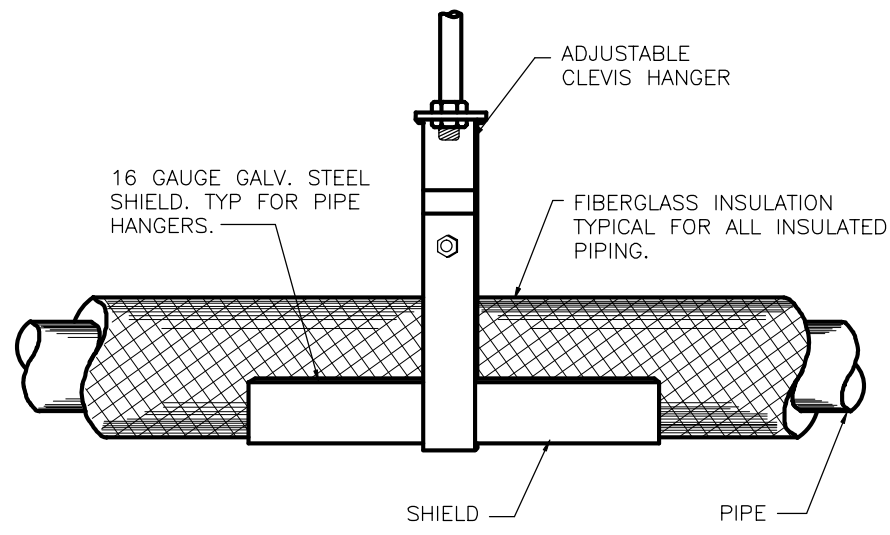
NO.	FIXTURE	MFG.	TYPE AND MODEL NO.	TRIM NO.	SUPPLY PIPE NO.	TRAP NO.	SUPPORT NO.	PIPE SIZES					REMARKS
								TRAP	WASTE	VENT	CW	HW	
FD	FLOOR DRAIN	JAY R. SMITH	2009C-06-B	-	-	P"-TRAP	-	-	-	-	-	-	PROVIDE WITH SEDIMENT BUCKET, DEEP SEAL TRAP AND 6" STRAINER.
F.S.	FLOOR SINK	JAY R. SMITH	3001NB-12	-	-	P"-TRAP	-	-	-	-	-	-	4" DEPTH WITH 1/2 GRATE AND DOME STRAINER.

NOTES:

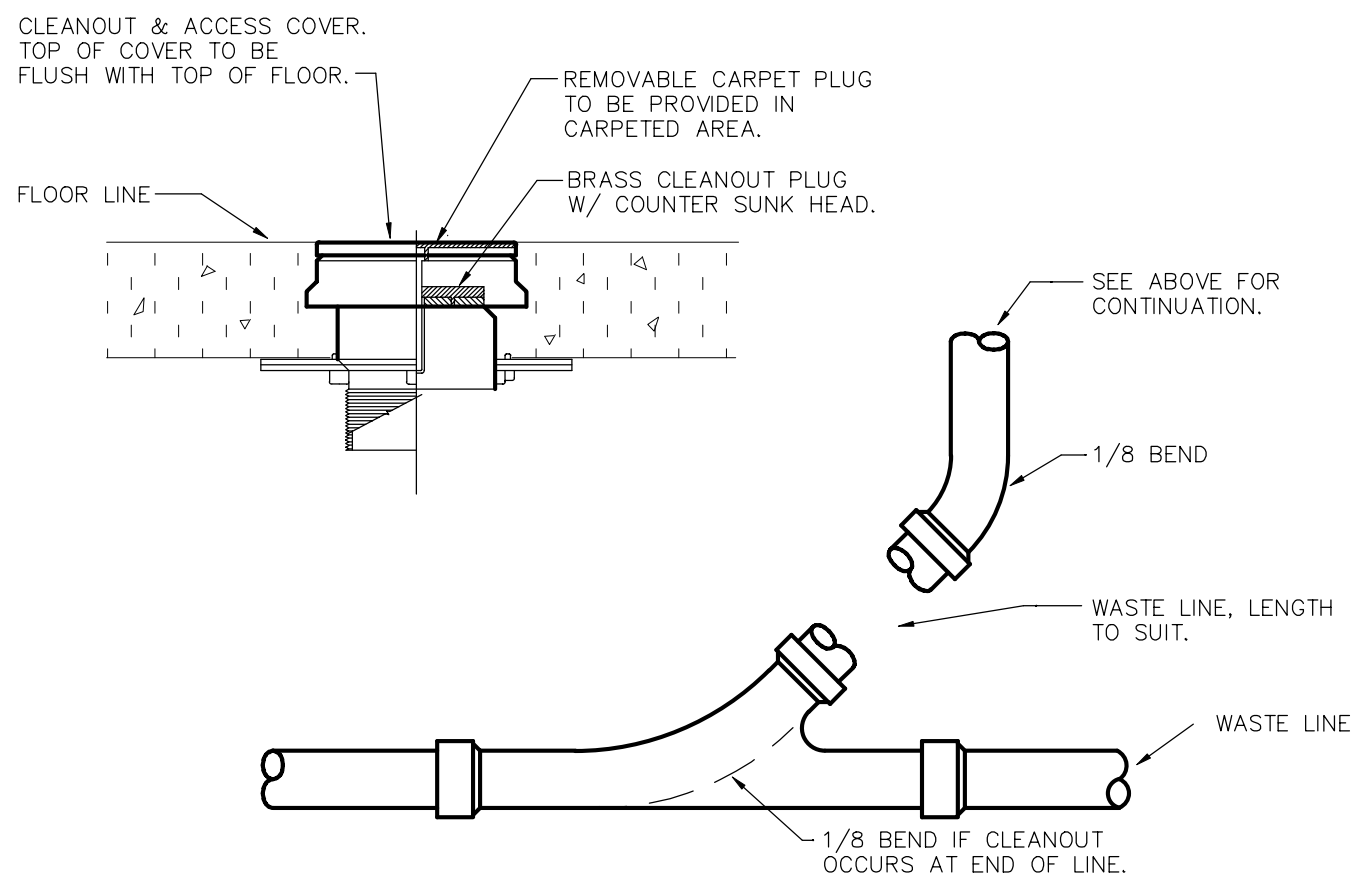
- REFER TO THE ARCHITECTS DRAWINGS FOR LOCATION AND QUANTITIES OF HANDICAPPED FIXTURES. ALL HANDICAPPED FIXTURES SHALL BE INSTALLED AS PER CABO/ANSI A117.1 REQUIREMENTS.
- PROVIDE MCGUIRE PRO-WRAP INSULATING KIT ON TRAPS AND HOT AND COLD WATER SUPPLIES TO ALL HANDICAPPED LAVATORIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF HANDICAPPED FIXTURES.
- PRIOR TO SUBMITTING SHOP DRAWINGS, THE CONTRACTOR SHALL COORDINATE FIXTURE TYPES AND COLORS WITH THE ARCHITECT.
- ALL LAVATORIES & HANDWASH SINKS TO SHALL BE SUPPLIED WITH A THERMOSTATIC MIXING VALVE (ASSE 1070) LIMITING WATER TO 110° F MAX.

PLUMBING EQUIPMENT SCHEDULE

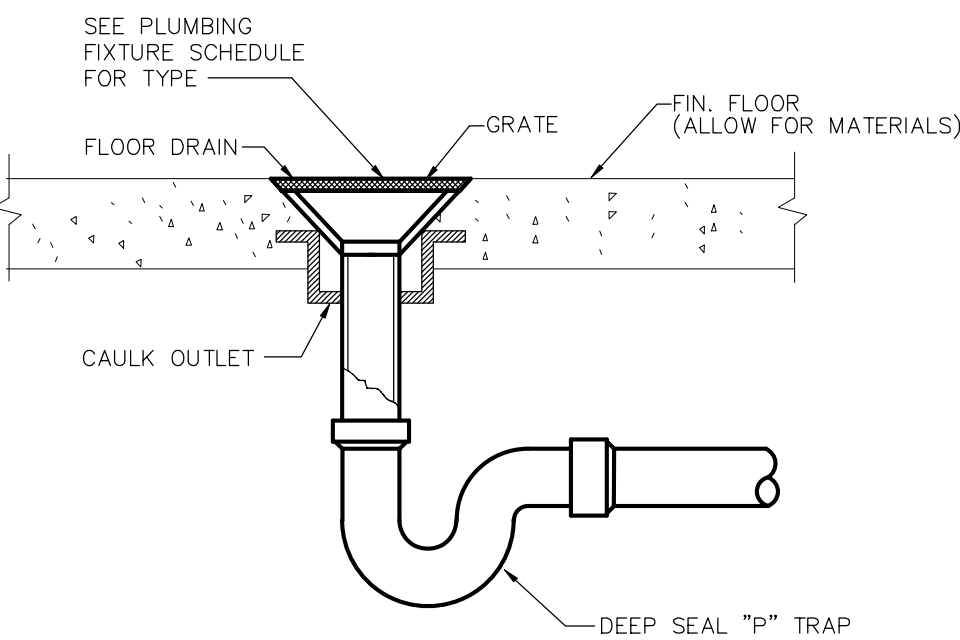
GENERAL					DESIGN DATA		ELECTRICAL				REMARKS
ITEM	SERVICE	MFR.	NO.	LOCATION	CAPACITY	PUMP HEAD	H.P./K.W.	R.P.M.	VOLTS	PHASE	
G.I.	GREASE INTERCEPTOR	SCHIER	GB2	SEE DWG'S	50 G.P.M.	130 LBS GREASE CAPACITY	---	---	---	---	WITH INTEGRAL FLOW CONTROL DEVICE. PROVIDE RISER EXTENSION FOR RECESS INSTALLATION.



01 TYPICAL HANGER DETAIL
P.O.1 N.T.S.



02 TYPICAL FLOOR CLEANOUT DETAIL
P.O.1 N.T.S.



03 TYPICAL FLOOR DRAIN DETAIL
P.O.1 N.T.S.

CODE REVIEW:

CERTIFICATE:

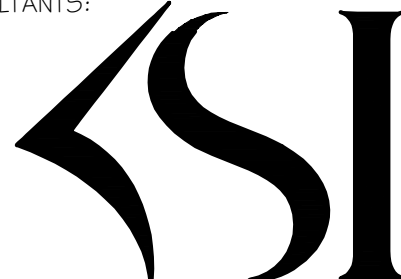


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STEVEN LEONE 2 IAO 1701100
STEVEN C. SEGEL 2 IAO 1544000
SPIEZE ARCHITECTURAL GROUP, INC. 2 IAO00063000

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CONSULTANTS:



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FAX: 732-338-2521
CERTIFICATE OF AUTHORIZATION NO. 24G28124300
PAUL BURNIS, N.J.P.E. LICENSE NUMBER 4515800
ALL DRAWING AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE ORIGINAL AND UNREPRODUCED WORK OF THE CONSULTING ENGINEER. NO PART OF THIS DRAWING FOR THE PURPOSE OF COPYING THE WORK OR REPRODUCING THE DRAWING SHALL BE CONSIDERED A VIOLATION OF ANY OF THE PROFESSIONAL OATHS, ETHICS AND A TRUST TO COMPANY, CLIENT, PEER OR PUBLIC WHICH SHALL BE PROSECUTED TO THE FULLEST EXTENT OF CURRENT STATUTES.

DATE:
KSI PROJECT # 20100M_01

PROJECT:

KITCHEN
UPGRADES AND
CLASSROOM
ALTERATIONS AT
BRIGANTINE
ELEMENTARY
FOR
BRIGANTINE
OF EDUCATION

301 E Evans
Brigantine, NJ 0820

FOR CODE REVIEW: DDMMYYYY

REVISIONS:

REVISION NAME	DATE
ADDENDUM #1	1/05/2020

FOR BID: 09/23/2020

DRAWING TITLE:

PLUMBING
GENERAL
INFORMATION

COMMISSION NUMBER:

20K009

AGENCY NUMBER:
01-0570-300-20-2000
01-0570-300-21-1-000
DO NOT SCALE THE DRAWINGS

DRAWING
NUMBER:

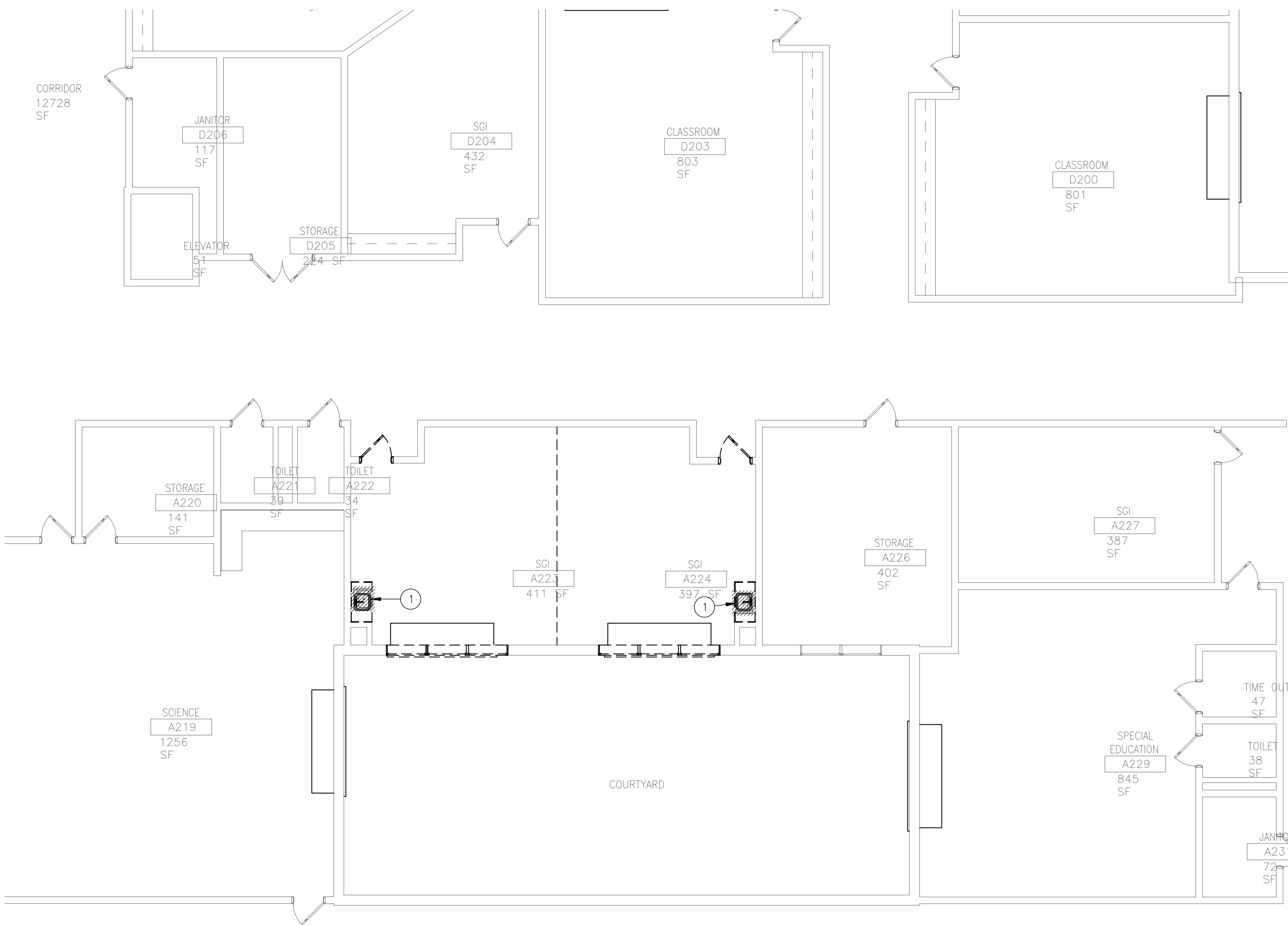
P.O. 1



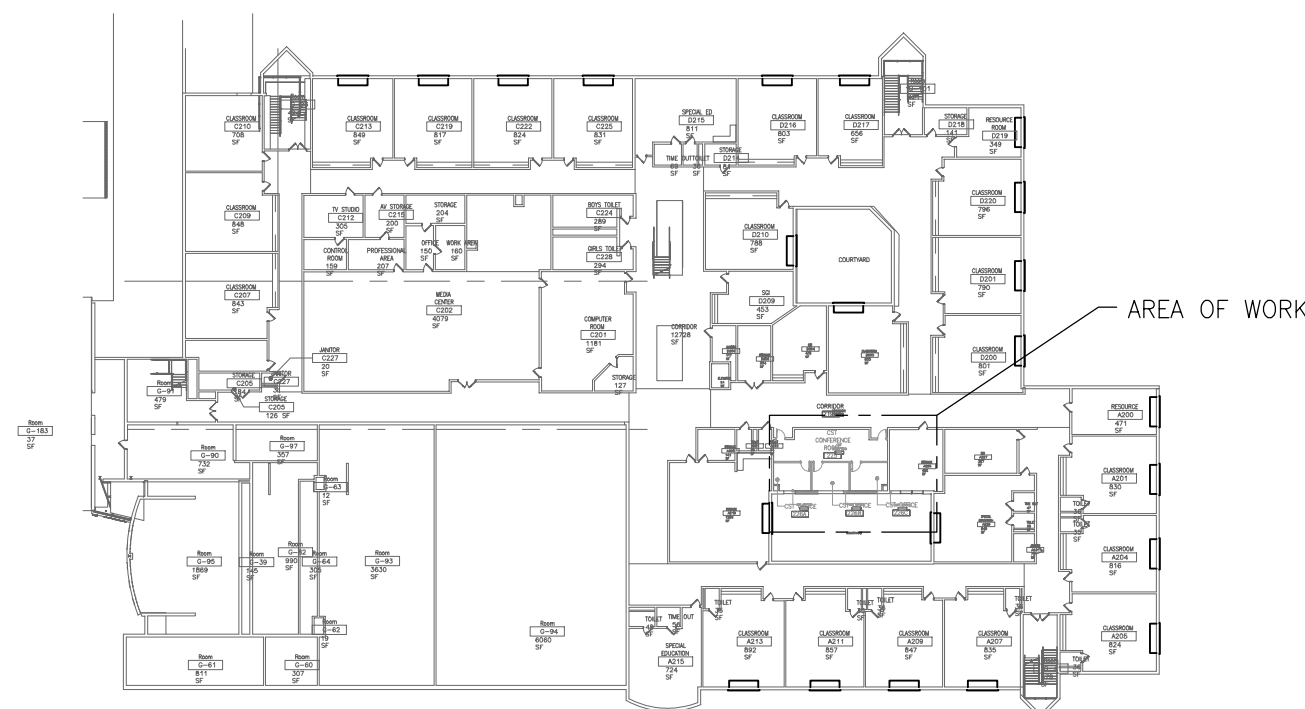
1. ALL PIPING AND EQUIPMENT TO BE REMOVED SHALL BE REMOVED BACK TO NEAREST STACK, RISER, OR MAIN IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS/STANDARDS, CODES AND AUTHORITY HAVING JURISDICTION.
2. REMOVE ANY ABANDONED AND/OR UNUSED PIPING DISCOVERED DURING DEMOLITION. THERE SHALL BE NO DEAD-ENDS GREATER THAN 24 INCHES IN ANY PLUMBING PIPING SYSTEMS.
3. DURING DEMOLITION ANY DAMAGES DISCOVERED IN EXISTING PIPING TO REMAIN SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. ALL EXISTING PIPING AND APPURTENANCES TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION. ANY DAMAGES INCURRED SHALL BE REPAIRED OR REPLACED AT NO COST BY THIS CONTRACTOR.
5. THE CONTRACTOR SHALL COORDINATE, NOTIFY, AND SCHEDULE ALL REMOVALS WITH THE CONSTRUCTION MANAGER PRIOR TO PROCEEDING WITH THE WORK.
6. THIS CONTRACTOR SHALL INCLUDE ALL COSTS FOR REMOVAL AND RELOCATIONS IN THE CONTRACT.
7. THE CONTRACTOR PRIOR TO BID SHALL VISIT THE SITE, EXAMINE THE EXISTING CONDITIONS, DRAWINGS AND COORDINATE THE EXACT SCOPE OF WORK WITH THE ARCHITECT AND CONSTRUCTION MANAGER.
8. THE CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS AND IDENTIFY ANY WORK WHICH MAY BE REQUIRED TO BE PERFORMED ON OVERTIME IN ORDER NOT TO DISTURB OCCUPIED SPACES WHICH ARE NOT WITHIN THE SCOPE OF THIS CONTRACT. OBTAIN WRITTEN APPROVAL OF THE CONSTRUCTION MANAGER PRIOR TO PERFORMING ANY SHUTDOWNS OR PERFORMING WORK ON OVERTIME.
9. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION AND PHASING SEQUENCE.
10. PROVIDE ALL SAW CUTTING AND PATING.

PD 1.1





01 PLUMBING PARTIAL SECOND FLOOR DEMOLITION PLAN
1/8"=1'-0"



02 SECOND FLOOR KEYPLAN
1/64"=1'-0"

KEY NOTES

1. REMOVE EXISTING PLUMBING FIXTURE(S) AND ALL ASSOCIATED PIPING. PROVIDE A CLEAN FINISHED SPACE.
2. REMOVE EXISTING GREASE INTERCEPTOR AND REPLACE WITH SPOOL PIECE.

DEMOLITION NOTES

1. ALL PIPING AND EQUIPMENT TO BE REMOVED SHALL BE REMOVED BACK TO NEAREST STACK, RISER, OR MAIN IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS/STANDARDS, CODES AND AUTHORITY HAVING JURISDICTION.
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5. THE CONTRACTOR SHALL COORDINATE, NOTIFY, AND SCHEDULE ALL REMOVALS WITH THE CONSTRUCTION MANAGER PRIOR TO PROCEEDING WITH THE WORK.
6. THIS CONTRACTOR SHALL INCLUDE ALL COSTS FOR REMOVAL AND RELOCATIONS IN THE CONTRACT.
7. THE CONTRACTOR PRIOR TO BID SHALL VISIT THE SITE, EXAMINE THE EXISTING CONDITIONS, DRAWINGS AND COORDINATE THE EXACT SCOPE OF WORK WITH THE ARCHITECT AND CONSTRUCTION MANAGER.
8. THE CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS AND IDENTIFY ANY WORK WHICH MAY BE REQUIRED TO BE PERFORMED ON OVERTIME IN ORDER NOT TO DISTURB OCCUPIED SPACES WHICH ARE NOT WITHIN THE SCOPE OF THIS CONTRACT. OBTAIN WRITTEN APPROVAL OF THE CONSTRUCTION MANAGER PRIOR TO PERFORMING ANY SHUTDOWNS OR PERFORMING WORK ON ON OVERTIME.
9. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION AND PHASING SEQUENCE.
10. PROVIDE ALL SAW CUTTING AND PATCHING.

CODE REVIEW:

CERTIFICATE:



SPIEZE ARCHITECTURAL GROUP INC.
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Phone: 609-695-7400

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SCOTTE DOWNE 21A01874400
STEVEN LEONE 21A011791100
STEVEN G. SIEBEL 21A01584200
SPIEZE ARCHITECTURAL GROUP, INC. 21AC00063000

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CONSULTANTS:



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CERTIFICATE OF AUTHORIZATION NO. 24GA28124300
PAUL RUPSH, N.J.P.E., LICENSE NUMBER 4515800
ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE
ORIGINAL AND UNREPRODUCED WORK OF THE CONSULTING ENGINEER OR ARCHITECT.
THIS DRAWING FOR THE PURPOSE OF CREATING THIS WORK OR DERIVATIVE AND
DRAWING SHALL BE CONSIDERED A VIOLATION OF BOTH THE PROFESSIONAL
CODE OF ETHICS AND A VIOLATION OF COMPANY POLICY, BOTH OF WHICH SHALL BE
PROSECUTED TO THE FULLEST EXTENT OF CURRENT STATUTES.

DATE:
KSI PROJECT # 201006_04

90% 9/18/20

PROJECT:

KITCHEN
UPGRADES AND
CLASSROOM
ALTERATIONS AT
BRIGANTINE
ELEMENTARY
FOR
BRIGANTINE
OF EDUCATION

301 E Evans
Brigantine, NJ 0820

FOR CODE REVIEW: DDMM/YYYY

REVISIONS:

REVISION NAME	DATE
---------------	------

FOR BID: DDMM/YYYY

DRAWING TITLE:

PLUMBING
SECOND
FLOOR DEMOLITION
PARTIAL PLANS

COMMISSION NUMBER:

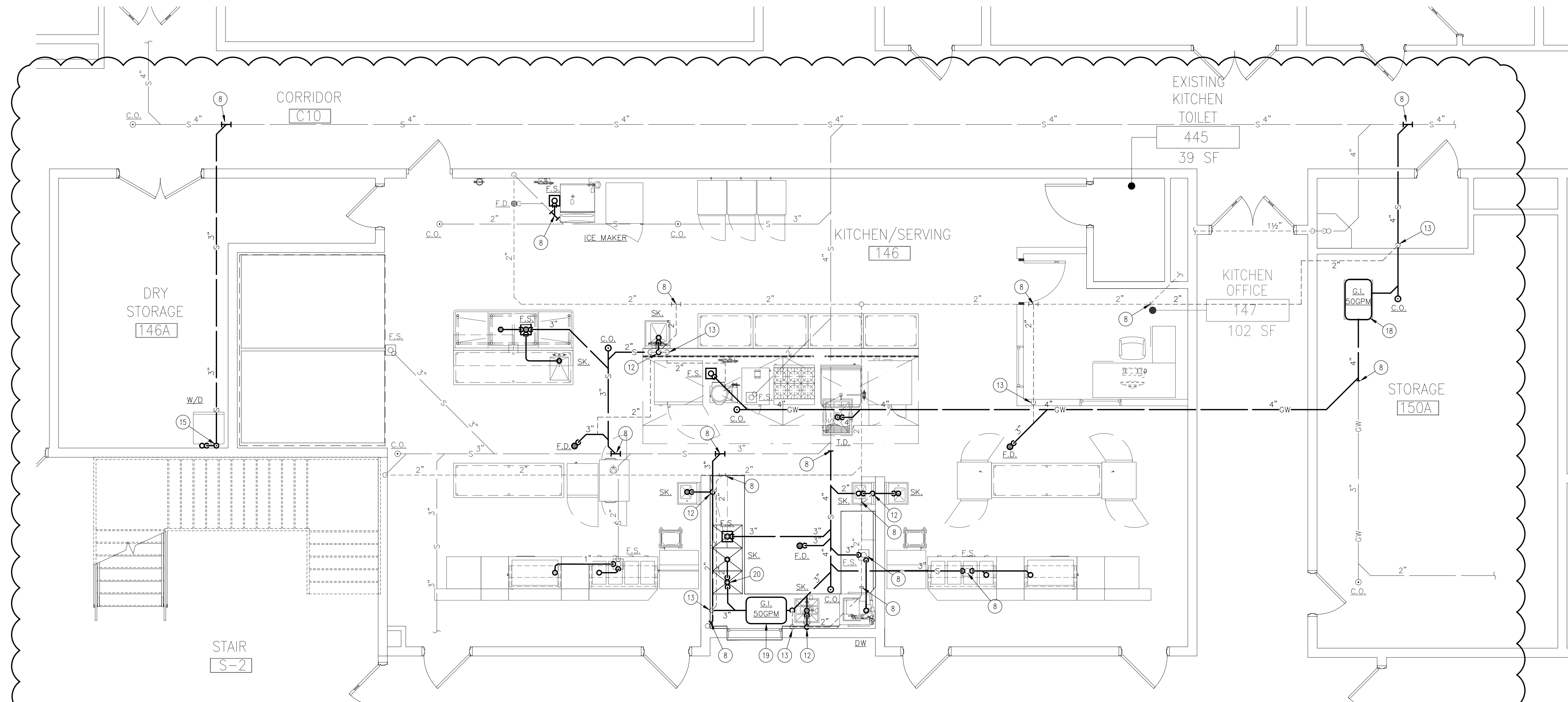
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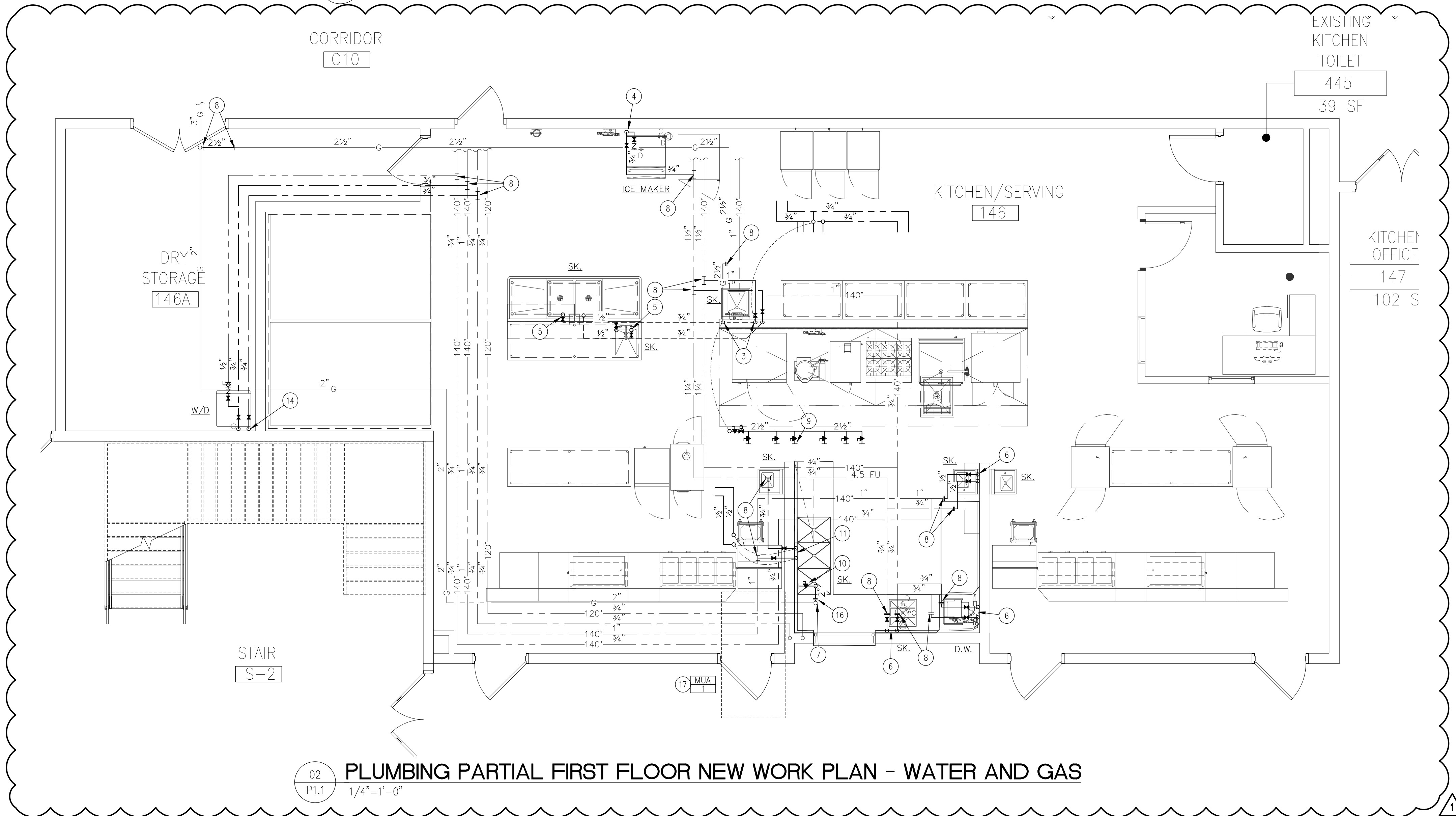
DO NOT SCALE THE DRAWINGS

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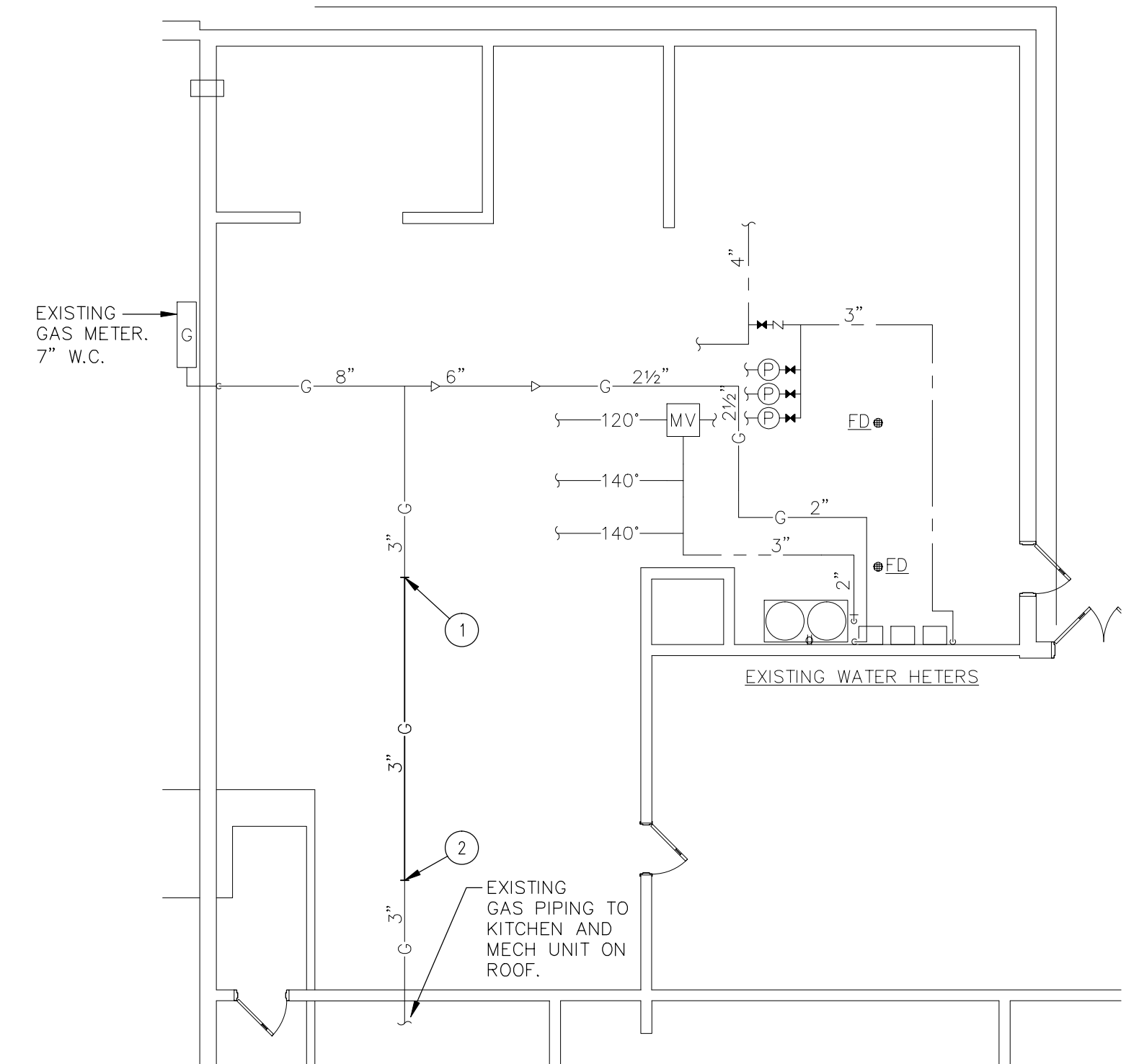
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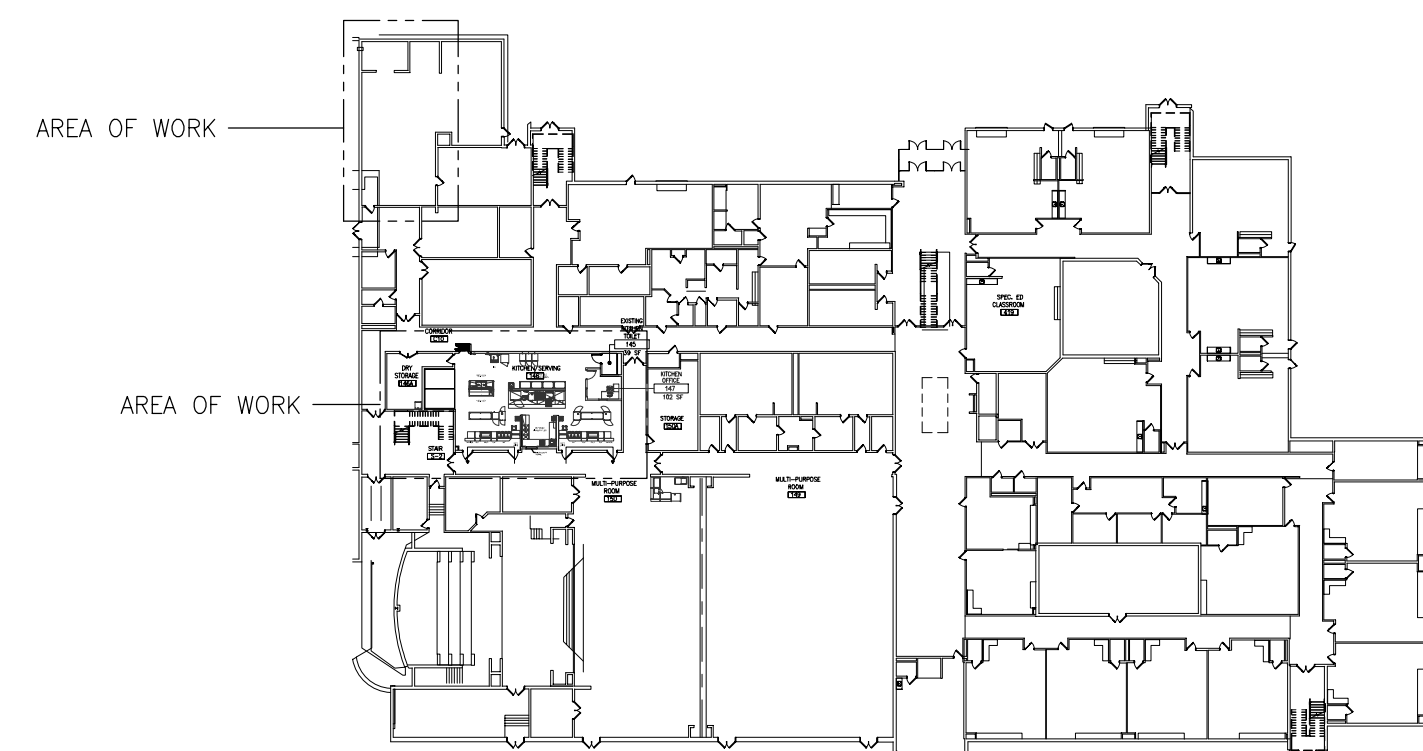
01 PLUMBING PARTIAL FIRST FLOOR NEW WORK PLAN -WASTE AND VENT
P1.1 1/4"=1'-0"



02 PLUMBING PARTIAL FIRST FLOOR NEW WORK PLAN - WATER AND GAS
P1.1 1/4"=1'-0"



03 PLUMBING PARTIAL FIRST FLOOR NEW WORK PLAN
P1.1 1/8"=1'-0"



04 FIRST FLOOR KEYPLAN
P1.1 1/64"=1'-0"

KEY NOTES

1. INSTALL NEW PIPING AND CONNECT TO EXISTING CAPPED PIPING FOR FUTURE KITCHEN.
2. INSTALL NEW PIPING AND CONNECT TO EXISTING OPEN PIPING FOR FUTURE KITCHEN. EXISTING INACTIVE PIPING SHALL BE CLEANED AND PRESSURE TESTED PRIOR TO REUSE.
3. 1" H.&C.W. DN. AND 2 1/2" G. DROP.
4. 3/4" C.W. DROP AND CONNECT TO FILTER AND ICE MAKER. PROVIDE SHUT-OFF VALVE AND BFP.
5. 1/2" H.&C.W. UP THRU FL.
6. 1/2" H.&C.W. DROP.
7. EXISTING GAS UP TO ROOF. CONTRACTOR TO VERIFY EXISTING IN FIELD.
8. CONNECT TO EXISTING. CONTRACTOR TO VERIFY EXISTING IN FIELD.
9. PROVIDE SHUT-OFF VALVE & CONNECT TO KITCHEN EQUIPMENT. (TYP.)
10. PROVIDE SHUT-OFF VALVE & CONNECT TO MECHANICAL EQUIPMENT.
11. 3/4" H.&C.W. DROP.
12. 2" W. DN. & 2" V. RISE.
13. 2" V. RISE.
14. 3/4" H.&C.W. DROP. PROVIDE WITH SHOCK ARRESTORS.
15. 2" W. DN. & 2" V. RISE WITH AIR ADMITTANCE VALVE.
16. CONNECT TO EXISTING GAS PIPING ON ROOF. CONTRACTOR TO VERIFY EXISTING IN FIELD.
17. NEW MAKE-UP AIR UNIT ON ROOF.
18. INSTALL NEW GREASE INTERCEPTOR AND SUPPORT FROM UNDERSIDE OF DECK IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. EXISTING GREASE INTERCEPTOR COVER PLATE TO BE REUSED FOR ACCESS TO NEW INTERCEPTOR.
19. INSTALL NEW GREASE INTERCEPTOR ON FLOOR.
20. OPEN HUB DRAIN FOR INDIRECT WASTE FROM SINK ABOVE FINISHED FLOOR.

GENERAL NOTES

1. PROVIDE DEEP SEAL TRAPS FOR ALL FLOOR DRAINS.
2. UNLESS OTHERWISE INDICATED, ALL KITCHEN EQUIPMENT INCLUDING SINKS WILL BE FURNISHED AND SET IN PLACE BY THE KITCHEN EQUIPMENT CONTRACTOR.
3. ALL KITCHEN EQUIPMENT SUPPLY TRIM SHALL BE FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY THIS CONTRACTOR.
4. THIS CONTRACTOR SHALL SUPPLY AND INSTALL ALL FUTURE TRAPS, VACUUM BREAKERS, WATER HAMMER ARRESTORS, STOPS AND INDIRECT WASTE PIPING. ALL BRANCH PIPING SHALL BE PROVIDED WITH SHUT-OFF VALVES.
5. PRIOR TO INSTALLATION OF ANY PLUMBING ROUGH-IN, FIXTURES, EQUIPMENT, FLOOR SINKS AND FLOOR DRAINS THIS CONTRACTOR SHALL REVIEW THE KITCHEN CONTRACTOR'S AND ARCHITECT'S DRAWINGS.
6. REFER TO KITCHEN CONTRACTOR'S DRAWINGS FOR ALL PLUMBING REQUIREMENTS AND PROVIDE AS REQUIRED.
7. ALL HAND SINKS/LAVATORIES SHALL BE PROVIDED WITH THERMOSTATIC MIXING VALVES. TEMPERATURE SHALL BE SET TO 110° F. SYMMONS #5-110-CK.
8. PROVIDE SHOCK ARRESTORS AT ALL WATER PIPING SUPPLYING QUICK CLOSING VALVES.
9. PROVIDE ALL INDIRECT WASTE PIPING AND PIPE TO NEAREST RECEPTOR. REFER TO KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.
10. COORDINATE ALL DECK PENETRATIONS WITH PLANK, USING ANY AND ALL EXCEPTED MEANS TO VERIFY STEEL PLACEMENT PRIOR TO CORE CUTS.

CODE REVIEW:

CERTIFICATE:



SPIEGLE ARCHITECTURAL GROUP INC.
1395 YARDVILLE HAMILTON SQUARE ROAD
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HAMILTON, NJ 08631
Phone: 609-695-7400

SIGNATURE:
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SCOTT E. JOHNE 21A01674400
STEVEN LEONE 21A01170100
STEVEN G. REDEL 21A01504000
SPIEGLE ARCHITECTURAL GROUP, INC. 21A000063000

SEAL:

CONSULTANTS:



KSI CONSULTING ENGINEERS, LLC
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CERTIFICATE OF AUTHORIZATION NO. 24G28124300
PAUL RUPSH, N.J.P.E. LICENSE NUMBER 4515000
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DATE:
KSI PROJECT # 20100M_01

PROJECT:

KITCHEN
UPGRADES AND
CLASSROOM
ALTERATIONS AT
BRIGANTINE
ELEMENTARY
FOR
BRIGANTINE
OF EDUCATION

301 E Evans
Brigantine, NJ 0820

FOR CODE REVIEW: DDMMYYYY

REVISIONS:	REVISION NAME	DATE
1	ADDENDUM #1	1/05/20

FOR BID: 09/23/2020

DRAWING TITLE:

PLUMBING
FIRST AND SECOND
FLOOR NEW WORK
PARTIAL PLANS

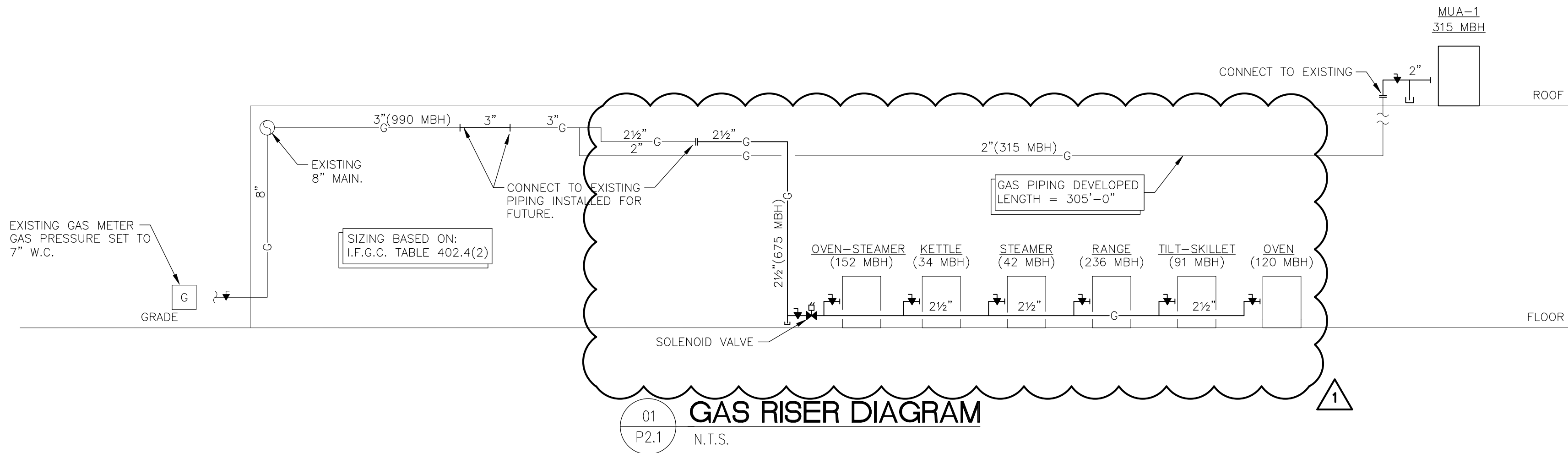
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20K009

AGENCY NUMBER:
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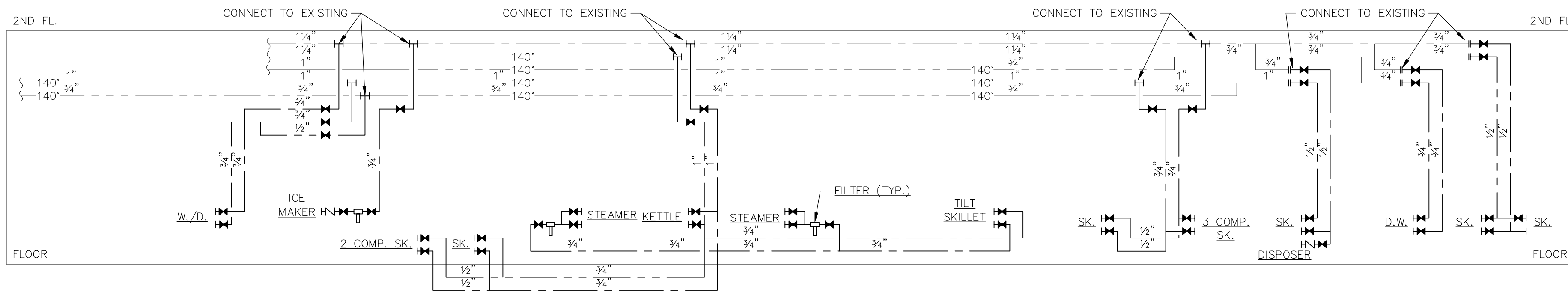
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P1.1



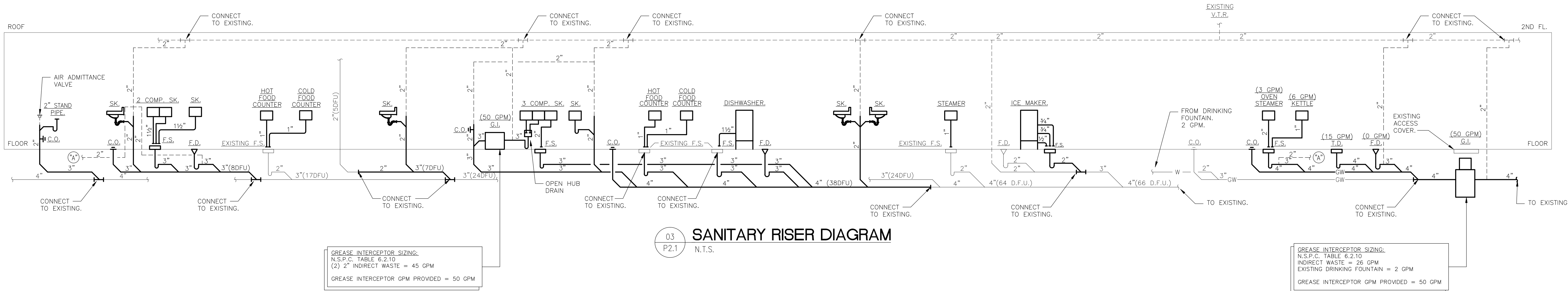
01 GAS RISER DIAGRAM

P2.1 N.T.S.



02 WATER RISER DIAGRAM

P2.1 N.T.S.



03 SANITARY RISER DIAGRAM

P2.1 N.T.S.

CODE REVIEW:

CERTIFICATE:



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1395 YARDVILLE HAMILTON SQUARE ROAD
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HAMILTON, NJ 08631
Phone: 609-695-7400

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CONSENT OF THE ENGINEER SHALL BE CONSIDERED A VIOLATION OF BOTH THE PROFESSIONAL
CODE OF ETHICS AND A VIOLATION OF COMPANY POLICY. WORK IN WHICH SHALL BE
PROTECTED TO THE FULLEST EXTENT OF CURRENT STATUTES.

DATE:
KSI PROJECT # 201006_01

PROJECT:

KITCHEN
UPGRADES AND
CLASSROOM
ALTERATIONS AT
BRIGANTINE
ELEMENTARY
FOR
BRIGANTINE
OF EDUCATION

301 E Evans
Brigantine, NJ 0820

FOR CODE REVIEW: DDMMYYYY

REVISIONS:

REVISION NAME	DATE
ADDENDUM #1	1/05/20

FOR BID: 09/23/2020

DRAWING TITLE:

PLUMBING
RISER DIAGRAMS

COMMISSION NUMBER:

20K009

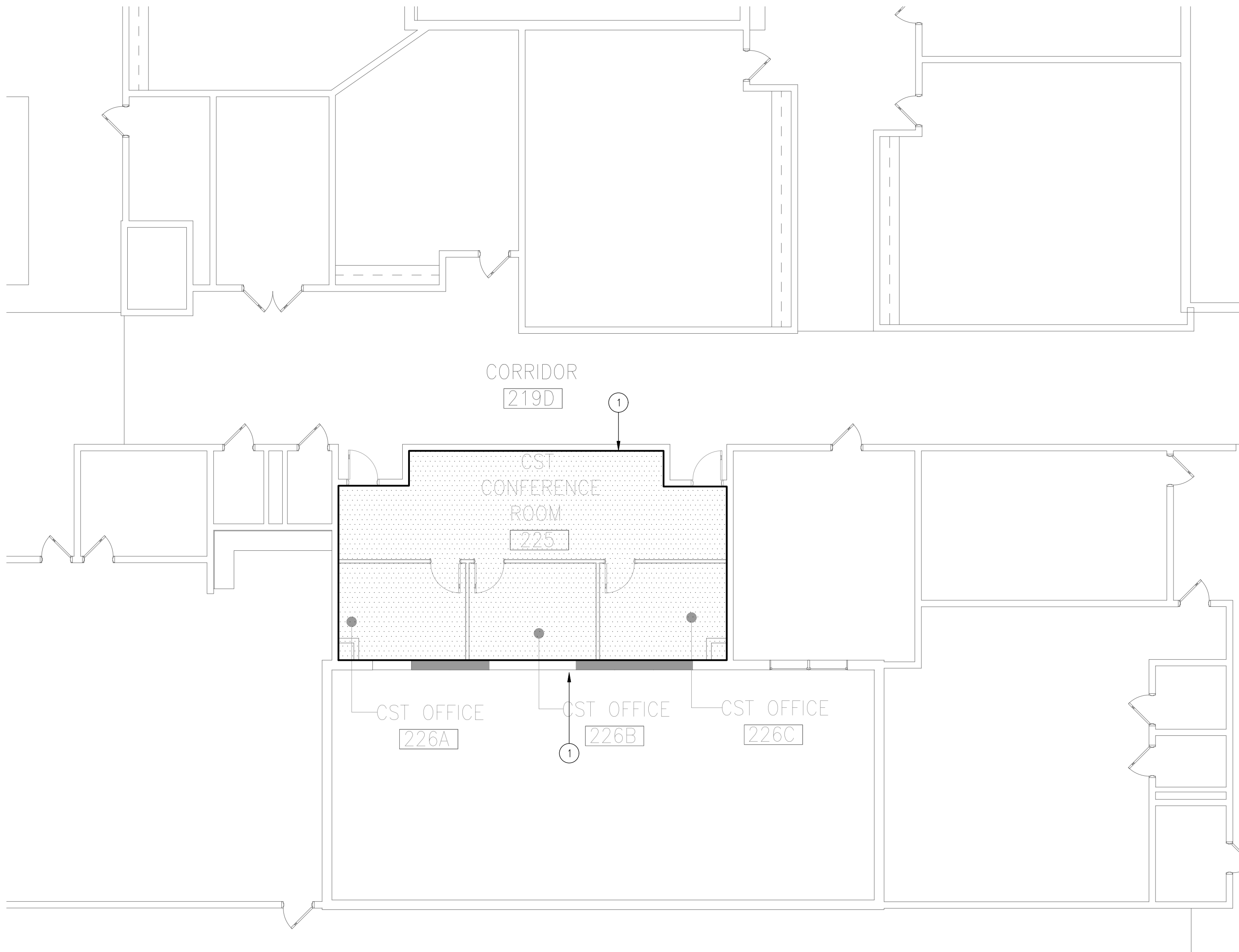
AGENCY NUMBER:
01-0570-300-20-2000
01-0570-300-21-1000
DO NOT SCALE THE DRAWINGS

DRAWING
NUMBER:

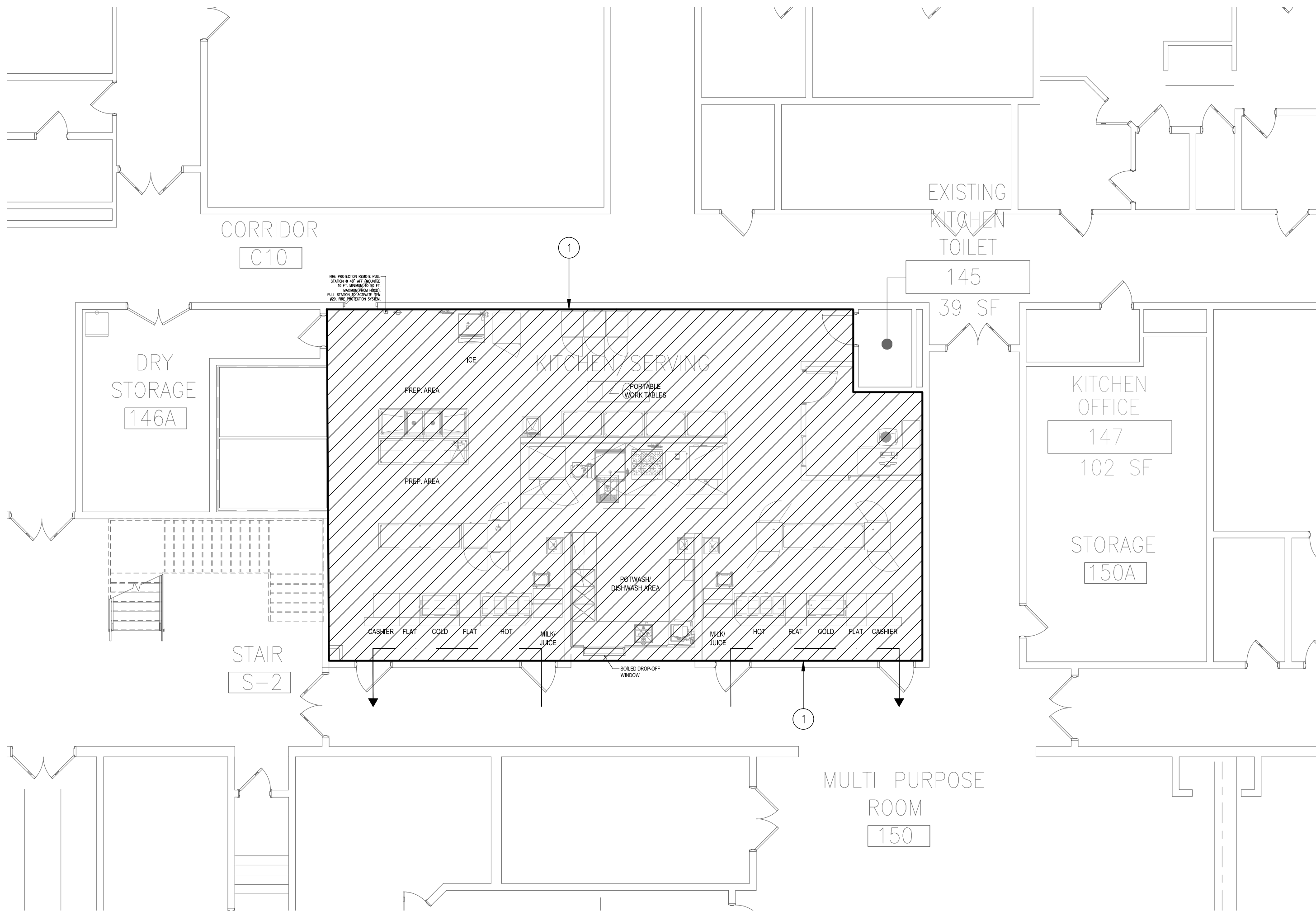
P2.1

GENERAL NOTES

1. SHOP DRAWINGS BEARING THE APPROVAL OF THE INSURANCE UNDERWRITER SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE BEFORE ANY WORK IS STARTED.
2. PROVIDE SPRINKLERS IN ALL COMBUSTIBLE CONCEALED SPACES IN ACCORDANCE WITH N.F.P.A. 13.
3. SPRINKLER HEADS SHALL NOT INTERFERE WITH LIGHTING FIXTURES, SPEAKERS, AIR CONDITIONING DIFFUSERS AND GRILLES, ETC. COORDINATE WITH ELECTRICAL, MECHANICAL AND ARCHITECT'S DRAWINGS PRIOR TO SUBMITTING SHOP DRAWING.
4. GUARANTEE ALL WORK MATERIAL AND EQUIPMENT FOR A PERIOD OF ONE(1) YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY.
5. ALL SPRINKLER PIPING TO RUN AS HIGH AS POSSIBLE. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR'S FIELD REPRESENTATIVE. PIPING SHALL ONLY BE INSTALLED IN HEATED AREAS. DO NOT INSTALL PIPING IN UNHEATED ATTIC SPACES.
6. THE CONTRACTOR SHALL RUN A CERTIFIED FLOW TEST AS REQUIRED BY N.F.P.A. 13, APPENDIX B.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING COMPLETE HYDRAULIC CALCULATIONS FOR APPROVAL BY THE INSURANCE UNDERWRITER AND THE AUTHORITIES HAVING JURISDICTION.
8. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE FIRE SUPPRESSION SYSTEM WHERE SHOWN ON DRAWINGS AND REQUIRED BY "NJ INTERNATIONAL BUILDING CODE" & N.F.P.A. NO. 13.
9. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, DETAILED CONSTRUCTION DRAWINGS AND HYDRAULIC CALCULATIONS TO THE ENGINEER AND FIRE SUB-CODE OFFICIAL, PRIOR TO THE INSTALLATION OF ANY EQUIPMENT. OBTAIN CERTIFICATE OF INSPECTION AND APPROVAL FROM THE SAME AGENCY HAVING JURISDICTION AFTER INSTALLATION. FIRE SUPPRESSION CONSTRUCTION DRAWINGS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN NJ WHERE THE PROJECT IS LOCATED.
10. EXACT LOCATION OF SPRINKLER HEADS AND PIPING SHALL BE COORDINATED WITH OTHER TRADES AND THE ELECTRICAL DRAWINGS PLAN BEFORE INSTALLATION.



02 FIRE PROTECTION PARTIAL SECOND FLOOR NEW WORK PLAN
1/8"=1'-0"



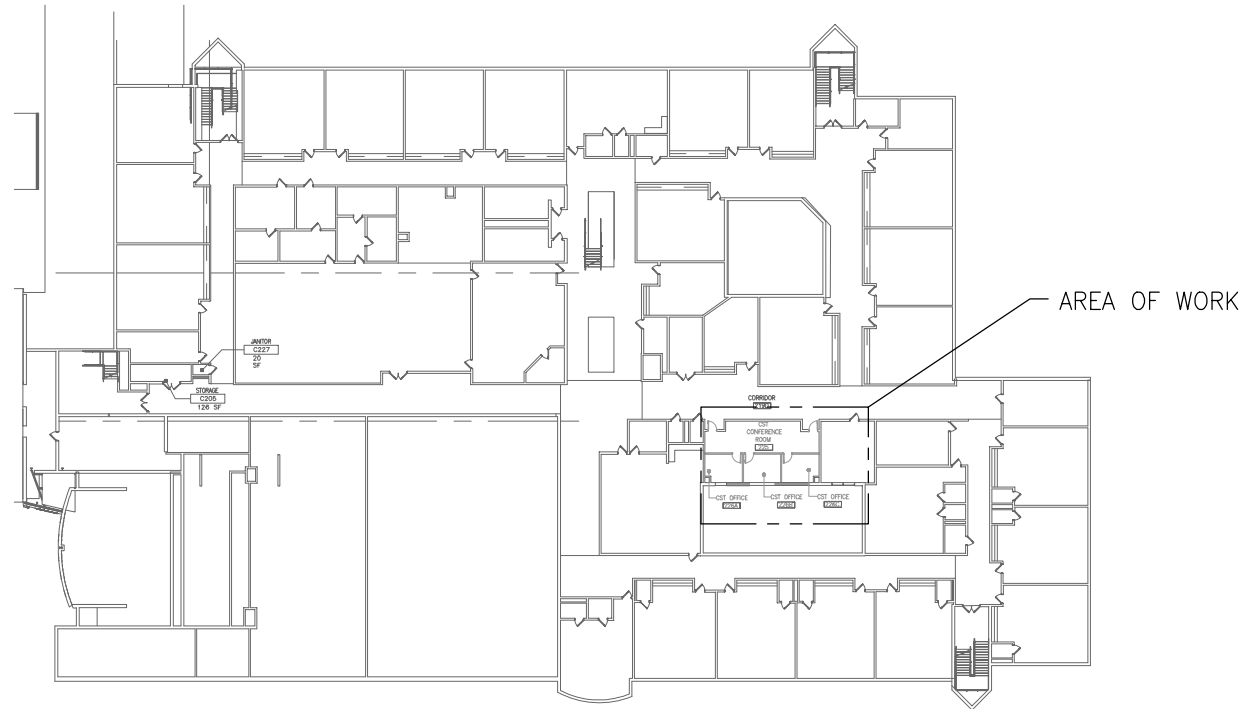
01 FIRE PROTECTION PARTIAL FIRST FLOOR NEW WORK PLAN
1/8"=1'-0"

KEY NOTES (1, 2)

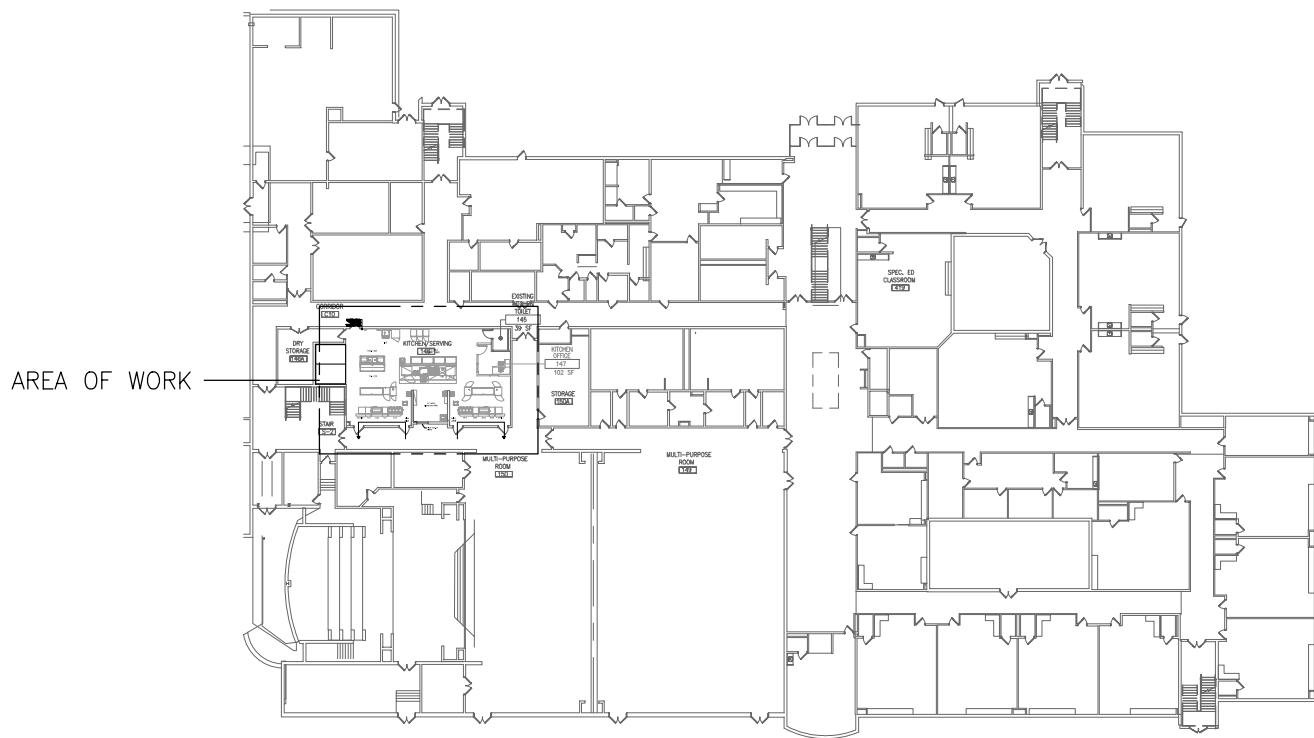
1. MODIFY THE EXISTING SPRINKLER SYSTEM AND ADD SPRINKLERS AS REQUIRED TO ACCOMMODATE THE NEW ROOM, CEILING HEIGHTS AND LAYOUTS. MODIFY THE EXISTING SPRINKLER SYSTEM AS REQUIRED TO PROVIDE A COMPLETE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13.

FIRE PROTECTION DESIGN CRITERIA

- WET TYPE SPRINKLER SYSTEM**
SYSTEM TYPE: WET PIPE SYSTEM
OCCUPANCY CLASS: LIGHT HAZARD
DENSITY: 0.10 GPM/SQ. FT.
AREA OF APPLICATION: 1,500 SQ. FT.
MAX. SPRINKLER HEAD COVERAGE: 225 SQ. FT.
- WET TYPE SPRINKLER SYSTEM**
SYSTEM TYPE: WET PIPE SYSTEM
OCCUPANCY CLASS: ORDINARY HAZARD
DENSITY: 0.15 GPM/SQ. FT.
AREA OF APPLICATION: 1,500 SQ. FT.
MAX. SPRINKLER HEAD COVERAGE: 130 SQ. FT.



04 SECOND FLOOR KEYPLAN
1/64"=1'-0"



03 FIRST FLOOR KEYPLAN
1/64"=1'-0"

CODE REVIEW:

CERTIFICATE:



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Phone: 609-695-7400

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DATE:
KSI PROJECT #: 2010006_04

90% 9/18/20

PROJECT:

KITCHEN
UPGRADES AND
CLASSROOM
ALTERATIONS AT
BRIGANTINE
ELEMENTARY
FOR
BRIGANTINE
OF EDUCATION

301 E Evans
Brigantine, NJ 0820

FOR CODE REVIEW: DDMM/YYYY

REVISIONS:

REVISION NAME	DATE
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FOR BID: DDMM/YYYY

DRAWING TITLE:

FIRE PROTECTION
FIRST AND SECOND
FLOOR NEW WORK
PARTIAL PLANS

COMMISSION NUMBER:

20K009

AGENCY NUMBER:


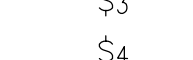
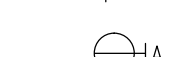
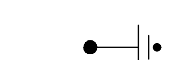


DO NOT SCALE THE DRAWINGS

DRAWING
NUMBER:

FP1.1

ELECTRICAL GENERAL NOTES

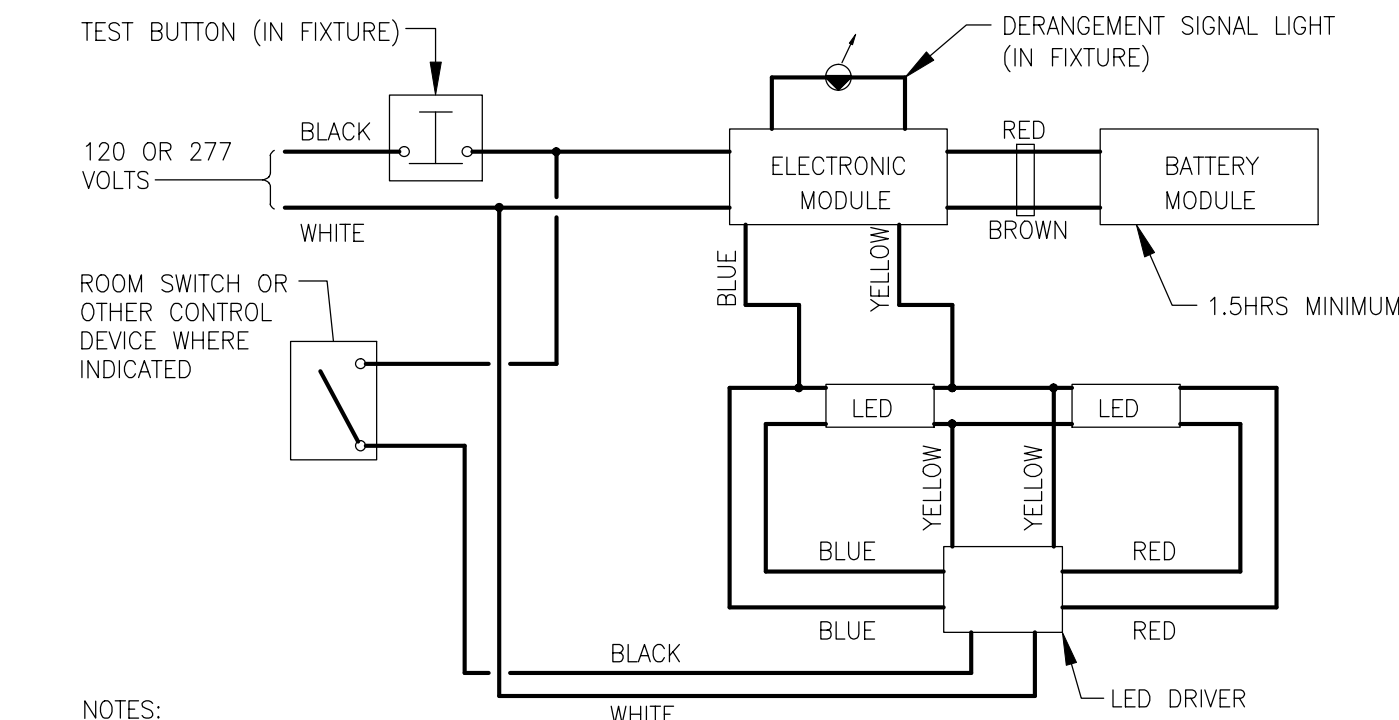
- ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE, THE NFPA, N.J.A.C. AND THE INTERNATIONAL BUILDING CODE.
- THE CONTRACTOR MUST HAVE THE H.V.A.C., FIRE PROTECTION AND PLUMBING DRAWINGS FOR LOCATIONS OF EQUIPMENT AND CONTROL WIRING REQUIREMENTS. ONLY POWER FEEDER TO MECHANICAL EQUIPMENT ARE SCHEDULED ON THE ELECTRICAL DRAWINGS. FURNISH AND INSTALL ALL CODE REQUIRED DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT UNLESS SPECIFIED ON MECHANICAL DRAWINGS TO BE SUPPLIED BY MANUFACTURER. PROVIDE FUSED SWITCHES WHEREVER MANUFACTURER REQUIRES THEM.
- ALL TELEPHONE/DATA WIRING IS BY THE OWNER.
- CONDUCTOR SIZES(PHASE AND BOND) SHALL BE INCREASED DUE TO DERATING AND VOLTAGE DROP REQUIREMENTS AS NECESSARY. USE A MINIMUM #10 AWG FOR 20 AMPERE CIRCUITS AS FOLLOWS: 120V. - OVER 120', 208V. - OVER 210', 277V. - OVER 279', 480V. - OVER 484'(BASED ON LOAD AT MIDPOINT OF BRANCH CIRCUIT RUN @ 60% OF RATED LOAD). USE #8 FOR 20A. CIRCUITS @ 277V. FROM 211' TO 354', AND 20A CKTS @ 120V. FROM 191' TO 301'(FOR #8 PROVIDE AND INSTALL SPLICE/TAP J-BOX BEFORE CONNECTION TO LOAD AND TRANSFER TO #12AWG FOR CONNECTION TO DEVICE TERMINALS.).
- ALL NEW ELECTRICAL SYSTEMS, INCLUDING LIGHTING, CONDUIT, PANELS, ETC., SHALL BE SEISMICALLY BRACED IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE.
- PANELBOARD LOCKS SHALL BE KEYPED IN ACCORDANCE TO OWNER REQUIREMENTS.
- SEPARATE NEUTRALS SHALL BE RUN FOR ALL CIRCUITS UTILIZING SWITCH MODE POWER SUPPLIES(EG. COMPUTERS, FLUORESCENT LIGHTING, ETC.).
- ALL RACEWAYS FEEDING ISOLATED GROUND DEVICES SHALL INCLUDE AN ISOLATED GROUND WIRE SIZED IN ACCORDANCE TO THE NEC.
- AS-BUILTS SHALL BE PROVIDED WITHIN 30 DAYS OF SYSTEM ACCEPTANCE, INCLUDING BUT NOT LIMITED TO SINGLE-LINE OF ELECTRICAL DISTRIBUTION SYSTEM AND FLOOR PLAN WITH LOCATIONS OF DISTRIBUTION EQUIPMENT AND AREAS SERVED BY THAT EQUIPMENT.(ASHRAE/IESNA STANDARD 90.1-1999.)
- O & M MANUALS MUST BE PROVIDED FOR THE ELECTRICAL DISTRIBUTION SYSTEM, INCLUDING BUT NOT LIMITED TO NAMEPLATE RATINGS, SCHEDULED MAINTENANCE, SPECIFIC EQUIPMENT SUPPLIED, NAMES AND ADDRESSES OF QUALIFIED SERVICE AGENCIES, COMPLETE NARRATIVE AND SCHEMATIC OF SYSTEM IN NORMAL OPERATION.(ASHRAE/IESNA STANDARD 90.1-1999.)
- THE ELECTRICAL CONTRACTOR IS TO VERIFY CEILING TYPE AND SPACE LIMITATIONS PRIOR TO ORDERING FIXTURES.
- FURNISH AND INSTALL ALL LABOR, PROGRAMMING, MATERIALS AND EQUIPMENT REQUIRED FOR A NEW INTERCOM/CLOCK SYSTEM, AS COVERED BY THESE SPECIFICATIONS, TO BE WIRED, CONNECTED AND LEFT IN FIRST CLASS OPERATING CONDITION. ALL EQUIPMENT SHALL BE UL LISTED.
- INTERCOM SYSTEM SHALL INCLUDE BUT NOT BE LIMITED TO SYSTEM PHONES, SPEAKERS, CALL SWITCHES, AND CLOCKS.
- EACH SPACE SHALL BE PROVIDED WITH BOTH A CALL SWITCH WITH A TALK BACK SPEAKER AND SYSTEM PHONE. PROVIDE A UNIQUE ADDRESS FOR EACH DEVICE IN EACH SPACE.. FOR A TOTAL OF TWO ADDRESSES PER SPACE WHERE A CALL SWITCH AND PHONE ARE LOCATED ON THE PLANS.
- COMPLETELY REMOVE THE OLD INTERCOM SYSTEM, INCLUDING BUT NOT LIMITED TO PHONES, CALL SWITCHES, SPEAKERS, WIRING, RACKS, EQUIPMENT, ETC.

SYMBOL	DESCRIPTION
	CEILING OR PENDANT MOUNTED FLUORESCENT FIXTURE AND OUTLET. α = SWITCH CONTROL. 3 = CIRCUIT NUMBER - TYPICAL FOR ALL FIXTURES.
	FIXTURE WIRED TO EMERGENCY CIRCUIT WHERE EMERGENCY GENERATOR IS PRESENT OR WITH BUILT IN BATTERY. U.O.N.
	LINEAR WALL WASH(UNSHADED SIDE DESIGNATES DIRECTION OF WASH)
	INDUSTRIAL OR STRIP FLUORESCENT FIXTURE.
	LIGHTING FIXTURE WIRED TO EMERGENCY CIRCUIT OR WITH BUILT IN BATTERY.
	WALL MOUNTED LIGHT FIXTURE, EMERGENCY CIRCUIT OR BATTERY BACK-UP.
	CEILING MOUNTED EXIT SIGN, WALL MOUNTED EXIT SIGN. 90° TO BOTTOM OF SIGN OR CENTERED ON WALL AREA BETWEEN TOP OF DOOR AND CEILING. ARROWS AS INDICATED, SHADED AREA INDICATES FACE(S).
	LED EXIT SIGN WITH BATTERY PAK AND LOCAL EMERGENCY HEADS.
	BATTERY OPERATED EMERGENCY LIGHTING. 90° TO BOTTOM OF FIXTURE OR CENTERED ON WALL AREA BETWEEN TOP OF DOOR AND CEILING. (90 MINUTE MINIMUM CAPACITY)
	LIGHT FIXTURE, A=LIGHTING FIXTURE TYPE, B=FOOTCANDLES AND X=CIRCUIT NUMBER
	SINGLE POLE 20A TOGGLE TYPE SWITCH MOUNTED 4'-0" AFF TO TOP. SUBLETTER "C" DENOTES FIXTURE CONTROLLED. U.O.N.
	THREE WAY SWITCH
	FOUR WAY SWITCH
	DIMMER SWITCH-LUTRON MAESTRO SMART DIMMER, TYPE TO MATCH LAMP AND SINGLE OR MULTIPLE LOCATIONS. U.O.N.
	MANUAL MOTOR STARTER(THERMAL ELEMENT)
	SWITCH W/PILOT LIGHT
	SINGLE RECEPTACLE AS NOTED ON PLANS.
	DUPLEX CONVENIENCE RECEPTACLE 20A, 125V, MOUNTED 1'-4" A.F.F. TO CENTER. U.O.N. 3-CIRCUIT NUMBER. CH=ABOVE COUNTER HEIGHT AT 44" MAX TO ABOVE COUNTERS WHICH ARE 20"-25" DEEP. U.O.N. CP=CHILD PROOF.
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER HEIGHT.
	GROUND FAULT RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE (QUAD)
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER HEIGHT WITH GROUND. (GFI)
	QUAD RECEPTACLE MOUNTED ABOVE COUNTER HEIGHT WITH GROUND. (GFI)
	COMBINATION TELE/COMM OUTLET W/ 1" CDT. RUN TO ABOVE ACCESSIBLE CEILING SPACE 1'-4" AFF TO 1/4 OF DEVICE. PROVIDE PULLSTRING AND END BUSHINGS(NUMBER REPRESENTS # OF KEYSTONES IF NOT TYPICAL).
	JUNCTION BOX, CEILING OR WALL MOUNTED AS NOTED. ELECTRICAL CONTRACTOR TO MAKE ALL REQUIRED CONNECTIONS TO DESIGNATED EQUIPMENT.
	RECESSED CEILING SPEAKER, WALL MOUNTED SPEAKER(BACKBOX WHERE REQUIRED) WITH 3/4"CONDUIT TO NEAREST ACCESSIBLE CEILING, CREATING A COMPLETE PATH TO THE LOCAL HEAD END EQUIPMENT WITH PULLSTRING.(COORD. WITH A/V DWGS).
	ITEMS TO BE DEMOLISHED AND REMOVED
	OCCUPANCY SENSOR
	POWER POLE WITH POWER AND DATA RACEWAY, ACTIVATION COMPONENTS AND ACCESSORIES.
	EXPOSED CONDUIT OR CABLE
	CONCEALED CONDUIT OR CABLE
	NON-FUSIBLE DISCONNECT SWITCH
	PANEL BOARD (LIGHTING OR RECEPTACLE) SURFACE MOUNTED
	PANEL BOARD (LIGHTING OR RECEPTACLE) RECESSED
	GROUND ROD
	FIRE ALARM MANUAL PULL STATION - 48"A.F.F. TO TOP OF DEVICE.
	COMBINATION FIRE ALARM HORN STROBE (ADA) AS PER SPECIFICATIONS - 80" A.F.F TO BOTTOM OF DEVICE 15/75 CD MINIMUM. U.O.N.(TYPICAL).
	FIRE ALARM SPEAKER (ADA) - 80" AFF TO BOTTOM OF DEVICE (TYPICAL).
	FIRE ALARM STROBE (ADA) - 80" AFF TO BOTTOM OF DEVICE 15/75 CD MINIMUM. U.O.N.(TYPICAL).
	FIRE ALARM SMOKE DETECTOR (PHOTOELECTRIC UNLESS OTHERWISE NOTED), (I= IONIZATION) (ADDRESSABLE) CEILING MOUNTED.
	FIRE ALARM HEAT DETECTOR - FIXED TEMP./RATE TO RISE. U.O.N.
	CARBON MONOXIDE DETECTOR
	RECESSED IN FLOOR POKE-THROUGH FITTING FOR POWER/TELE/DATA. WALKER #RCATCBK(BS-WHERE SHOWN ON PLANS)(COM-50) SERIES. DATA KEYSTONES AND WIRING BY OTHERS. FOLLOW CDT REQUIREMENT FOR TYPICAL DEVICE. (4" CORE)
	NEW WALL MOUNTED COMBINATION CLOCK/INTERCOM TO MATCH EXISTING.

ELECTRICAL SYMBOL LEGEND

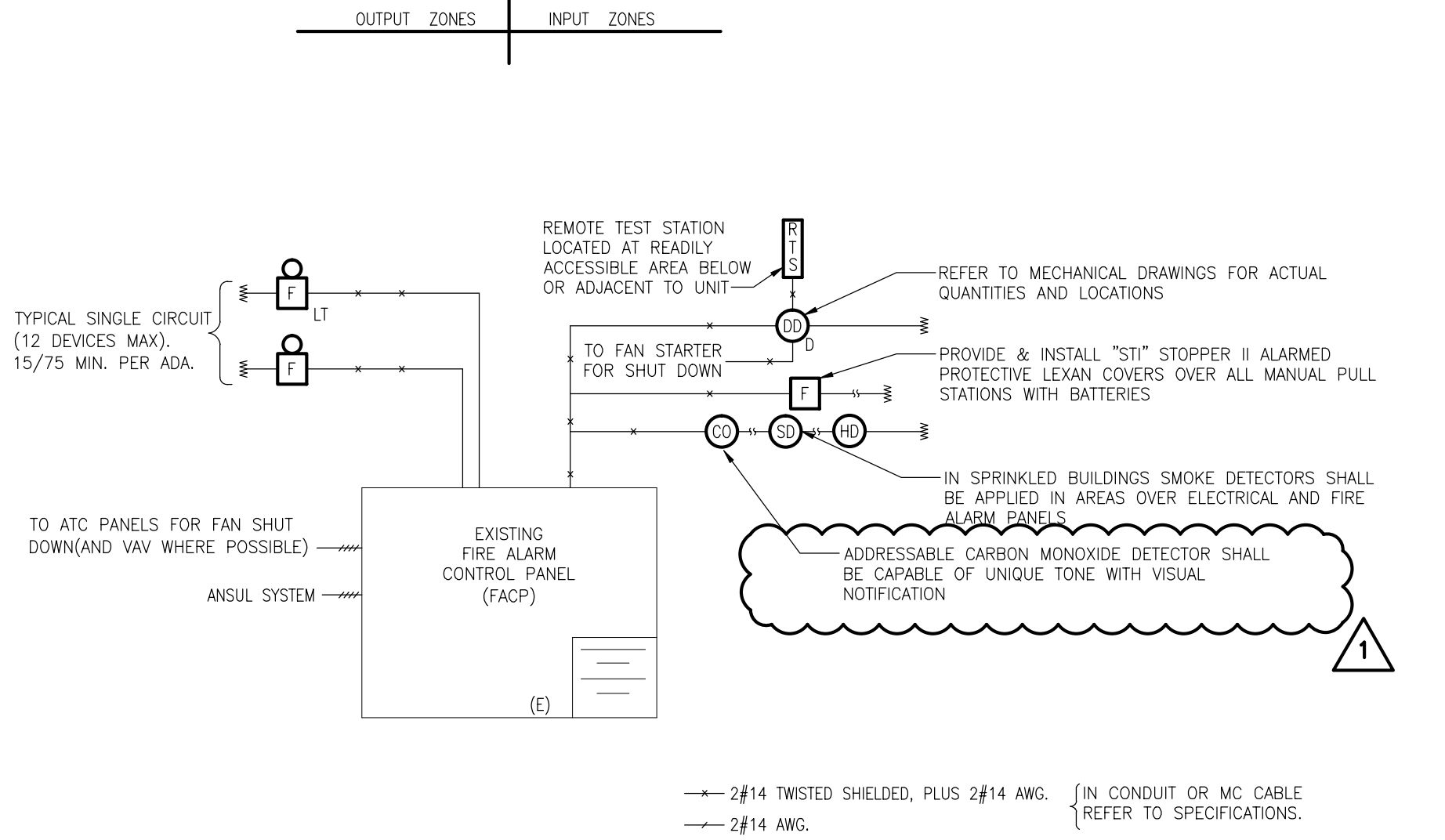
ELECTRICAL ABBREVIATION LEGEND

ABBREVIATION	DESCRIPTION
A	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ARF	ABOVE RAISED FLOOR
AWG	AMERICAN WIRE GAGE
C	CONDUIT
CAHU	COMPUTER AIR HANDLING UNIT
CB	CIRCUIT BREAKER
CH	ABOVE COUNTER HEIGHT
CKT	CIRCUIT
COGB	CENTRAL OFFICE GROUND BUS
CRAC	COMPUTER ROOM AIR CONDITIONER
DC	DIRECT CURRENT
D/S	DISCONNECT SWITCH
E	EXISTING
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF PUSHBUTTON
ER	EXISTING TO BE RELOCATED
FACP	FIRE ALARM CONTROL PANEL
FGB	FRAME GROUND BUS
G	GROUND
GFI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT - AMPERE
KW	KILOWATT
LP	LIGHTING PANEL
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MDS	MAIN DISTRIBUTION SWITCHGEAR
MGB	MAIN GROUND BUS
MLO	MAIN LUGS ONLY
N	NEW
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N/L	NIGHT LIGHT
NO	NORMALLY OPEN
OPGP	OFFICE PRINCIPAL GROUND POINT
ø	PHASE
PNL	PANEL
PGB	PRINCIPAL GROUND BUS
PGP	PRINCIPAL GROUND POINT
PP	POWER PANEL
PVC	POLY VINYL CHLORIDE CONDUIT
R	RELOCATED IN NEW POSITION
RFGB	RAISED FLOOR GROUND BUS
RGS	RIGID GALVANIZED STEEL CONDUIT
RP	RECEPTACLE PANEL
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TBB	TELEPHONE BACKBOARD
V	VOLT
VESDA	VERY EARLY SMOKE DETECTION ALARM
WP	WEATHER PROOF (NEMA RATED)(WHILE IN USE)
XFER	TRANSFER
XFMR	TRANSFORMER
XP	EXPLOSION PROOF



- NOTES:
- WHERE INDICATED ON DRAWINGS THAT A FIXTURE IS CONTROLLED BY A LOCAL SWITCH, FIXTURE SHALL BE WIRED TO SHUT OFF WHEN SWITCH IS OFF. BATTERY MODULE IS ALWAYS HOT.
 - REFER TO MANUFACTURER'S WIRING DIAGRAM FOR ACTUAL CONDUCTOR COUNTS.
 - WHERE LIGHTING CONTROL SYSTEM IS APPLIED, THE BATTERY BALLAST MUST BE WIRED AHEAD OF SYSTEM RELAY.

01 E0.1 EMERGENCY LIGHTING WIRING DIAGRAM NONE



- NOTES:
- 120V, CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING (RED TAPE) AND BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL" PER NFPA 72.
 - AUDIBLE ALARMS IN MECHANICAL ROOMS SHALL BE 90dB IN ACCORDANCE WITH I.B.C. ARTICLE 907.9.2.
 - A/V LOCATION AND SPACING SHALL ADHERE TO NFPA 72-6-4.4.
 - INSTALLATION SHALL BE IN ACCORDANCE TO THE LATEST ADOPTED EDITION OF NFPA 72.
 - CONTRACTOR SHALL VERIFY OPERATION OF SMOKE DAMPERS AT THE KITCHEN WALLS AND IF NECESSARY VERIFY/REPROGRAM THE FIRE ALARM PANEL FOR PROPER OPERATION OF THE EXISTING SMOKE DAMPERS. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION AND LOCATION OF THE SMOKE DAMPERS.

02 E0.1 FIRE ALARM RISER NONE

CODE REVIEW:

CERTIFICATE:



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Phone: 609-695-7400

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SPIEZLE ARCHITECTURAL GROUP, INC. 21AC00063000

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CONSULTANTS:



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CERTIFICATE OF AUTHORIZATION NO. 24GA28124300
PAUL RUPSH, N.J.P.E. LICENSE NUMBER 4515900
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DATE:
KSJ PROJECT # 201006_01

PROJECT:

KITCHEN
UPGRADES AND
CLASSROOM
ALTERATIONS AT
BRIGANTINE
ELEMENTARY
FOR
BRIGANTINE
OF EDUCATION

301 E Evans
Brigantine, NJ 0820

FOR CODE REVIEW: DDMMYYYY

REVISIONS:

REVISION NUMBER	DATE
ADDENDUM #1	1/05/2020

FOR BID: 09/23/2020

DRAWING TITLE:

ELECTRICAL
GENERAL
INFORMATION

COMMISSION NUMBER:

20K009

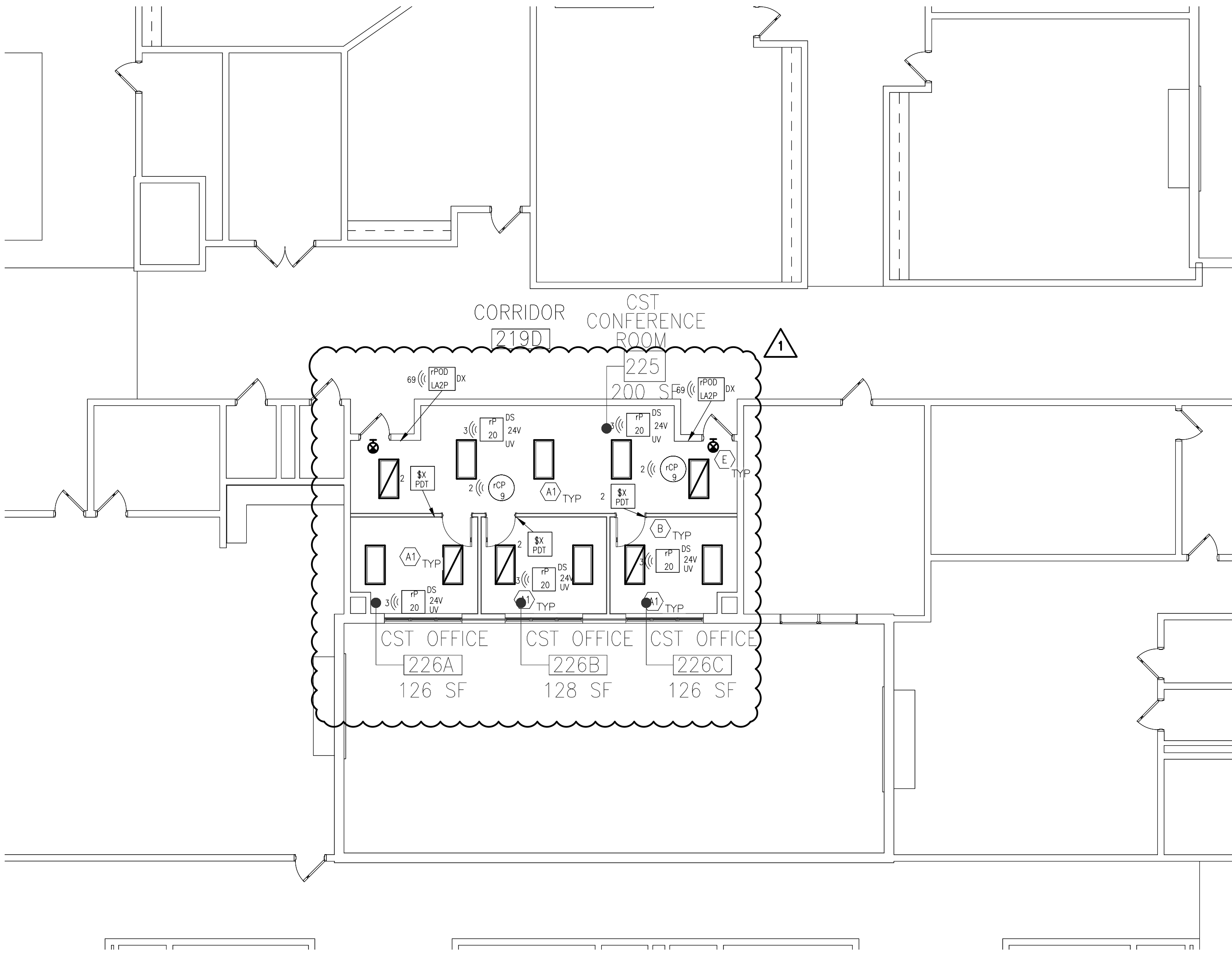
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01-0570-300-21-1-000
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NUMBER:

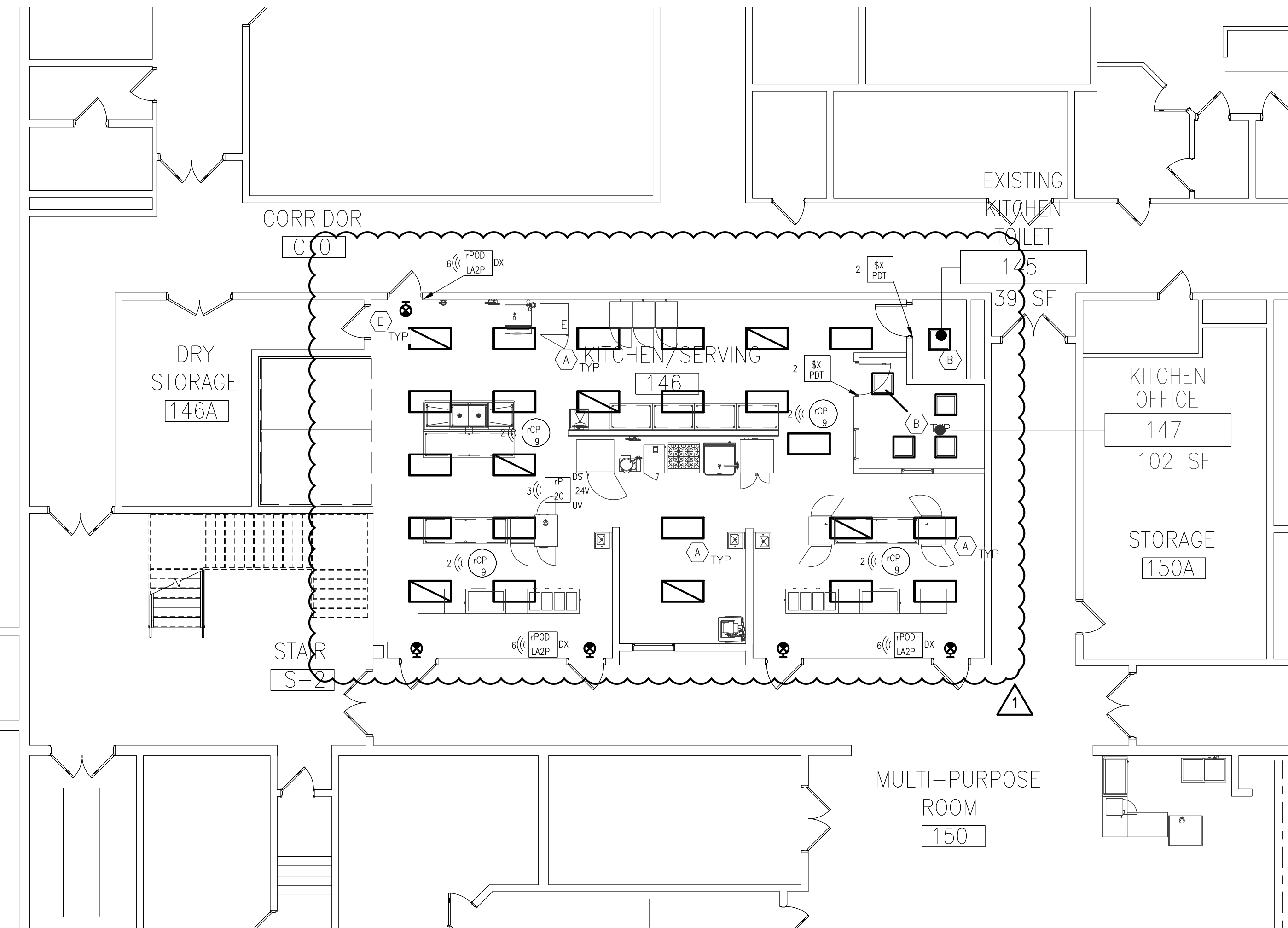
E0.1



- ED 1.1



02
E1.1
ELECTRICAL PARTIAL SECOND FLOOR LIGHTING PLAN
1/8"=1'-0"

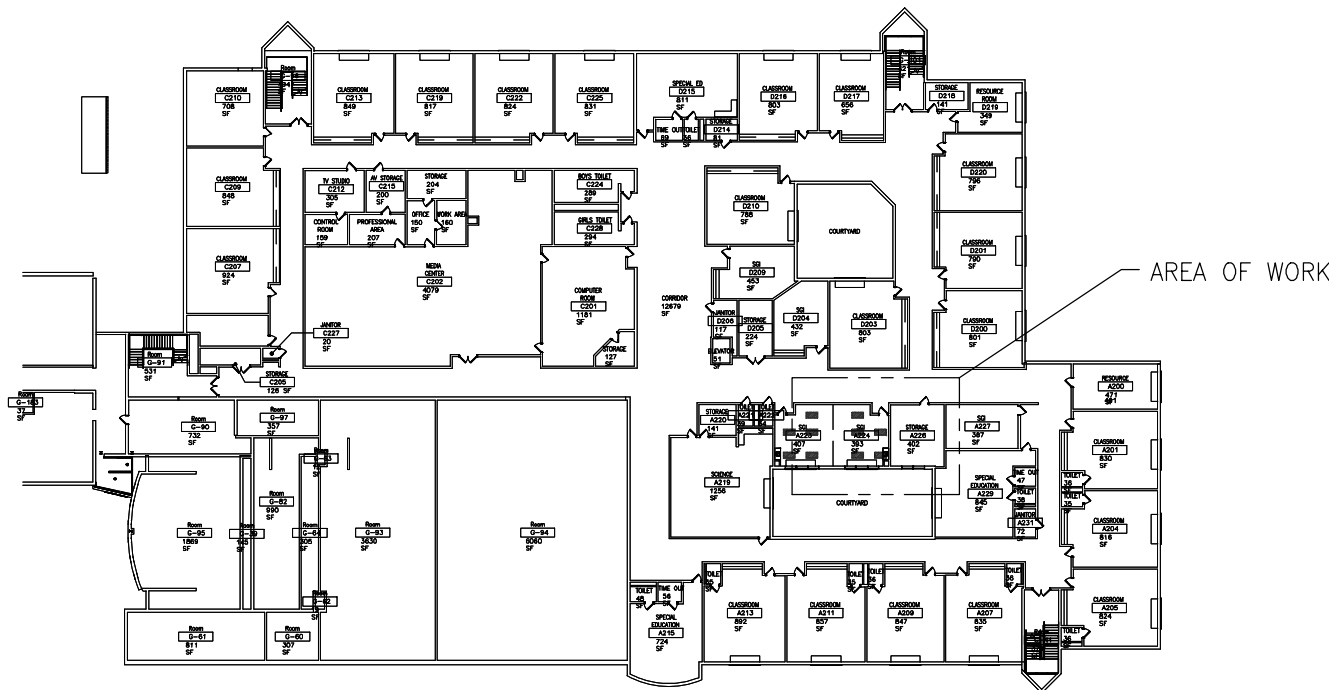


01
E1.1
ELECTRICAL PARTIAL FIRST FLOOR LIGHTING PLAN
1/8"=1'-0"

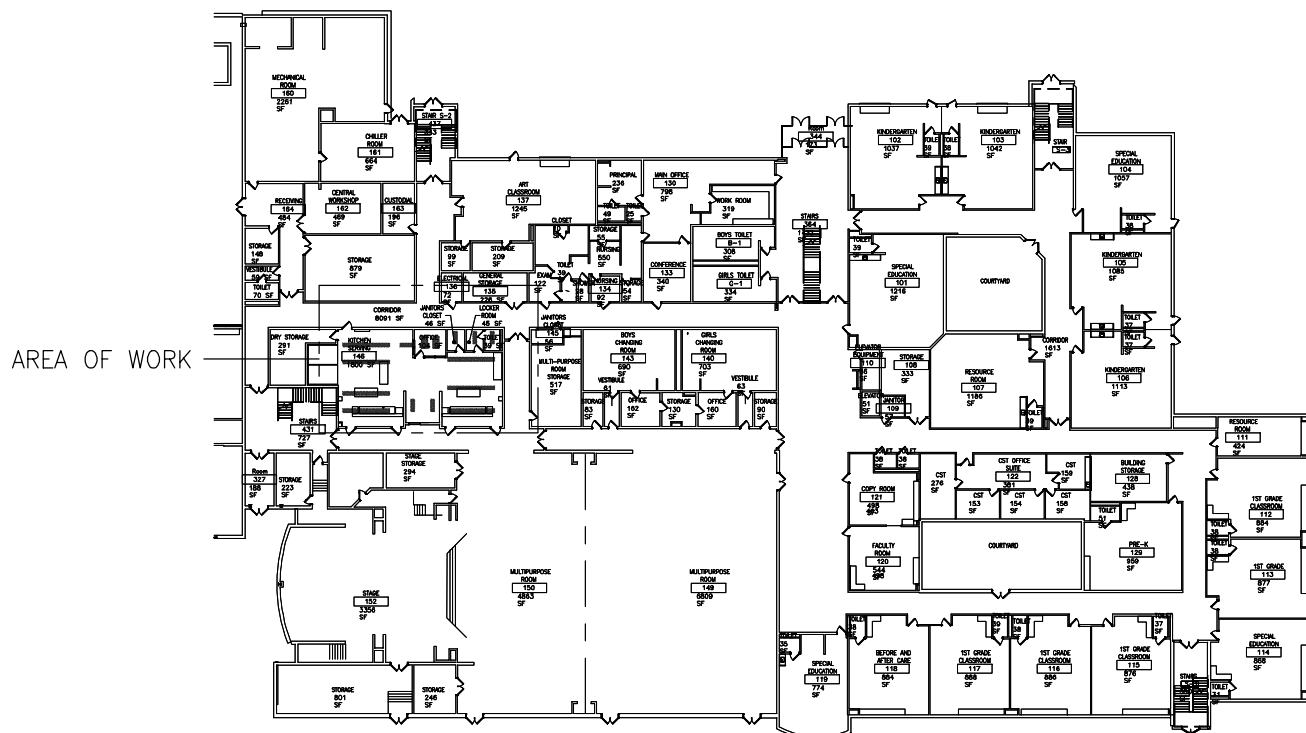
063
E1.1
NIGHT AIR SYMBOLS LEGEND
NO SCALE

GENERAL NOTES

- CIRCUIT EMERGENCY BATTERY BALLAST WITHIN LIGHTING FIXTURE TO THE LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING WITH (2) #12 + (1) #12G-3/4".
- NEW LIGHTING FIXTURES SHALL BE CIRCUITED TO EXISTING LIGHTING CIRCUIT LEFT SPARE AFTER DEMOLITION PHASE WITH (2) #12 + (1) #12G IN 3/4". DO NOT EXCEED 1,200 WATTS CONNECTED LOAD PER 20A CIRCUIT AT 120V OR 3,800 WATTS AT 277V.



05
E1.1
SECOND FLOOR KEYPLAN
1/64"=1'-0"



04
E1.1
FIRST FLOOR KEYPLAN
1/64"=1'-0"

CODE REVIEW:

CERTIFICATE:

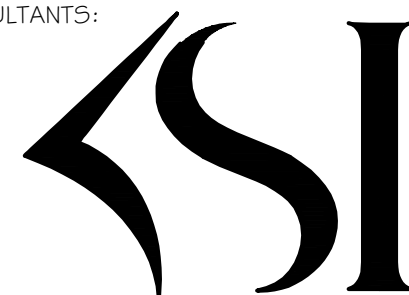


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SPIEZLE ARCHITECTURAL GROUP, INC. 21AC00063000

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PROSECUTED TO THE FULLEST EXTENT OF CURRENT STATUTES.

DATE:
KSI PROJECT # 20100M_01

PROJECT:

KITCHEN
UPGRADES AND
CLASSROOM
ALTERATIONS AT
BRIGANTINE
ELEMENTARY
FOR
BRIGANTINE
OF EDUCATION

301 E Evans
Brigantine, NJ 0820

FOR CODE REVIEW: DDMMYYYY

REVISIONS:	REVISION NAME	DATE
1	ADDENDUM #1	10/05/20

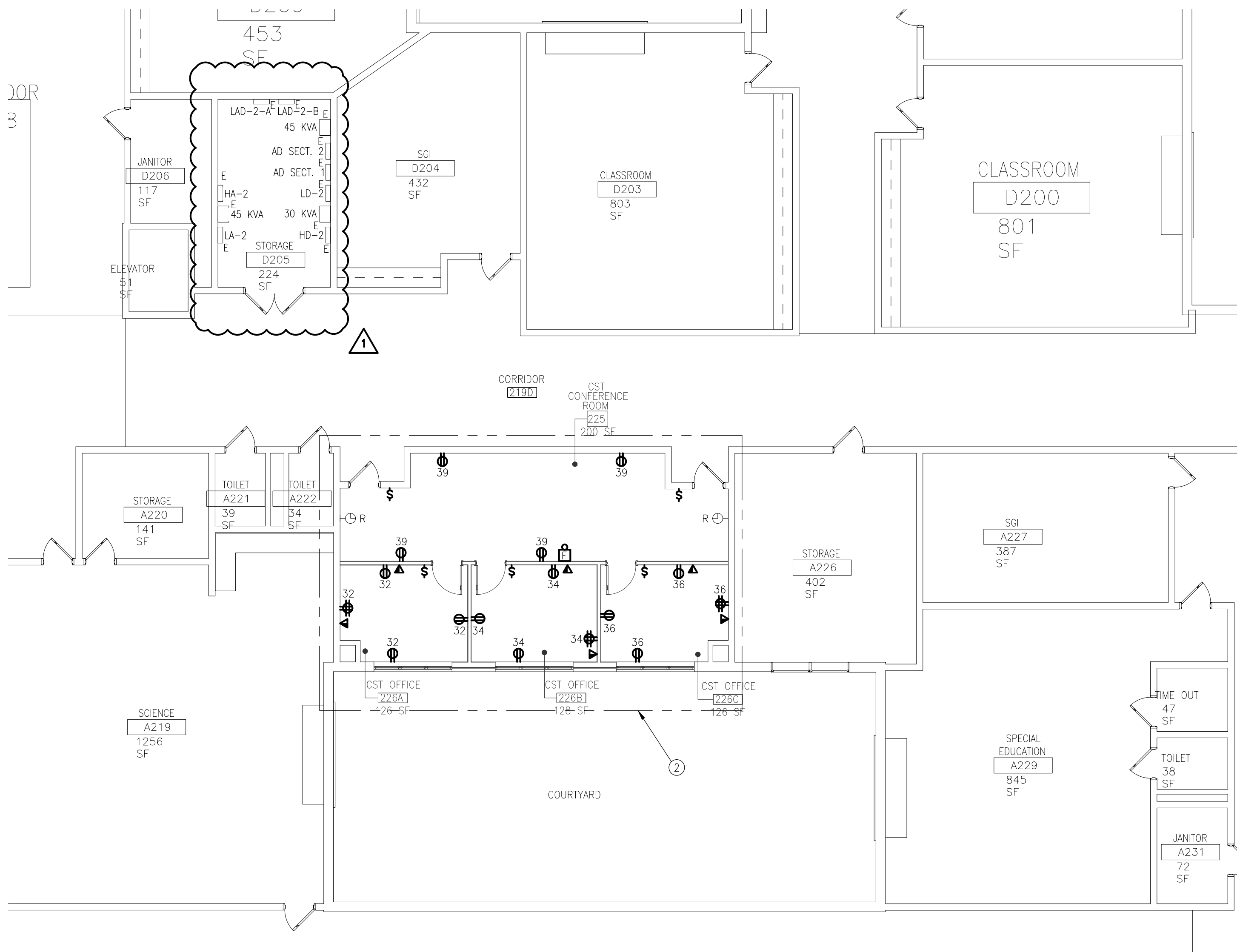
FOR BID: 09/23/2020

DRAWING TITLE:
ELECTRICAL
FIRST AND SECOND
FLOOR LIGHTING
PARTIAL PLANS

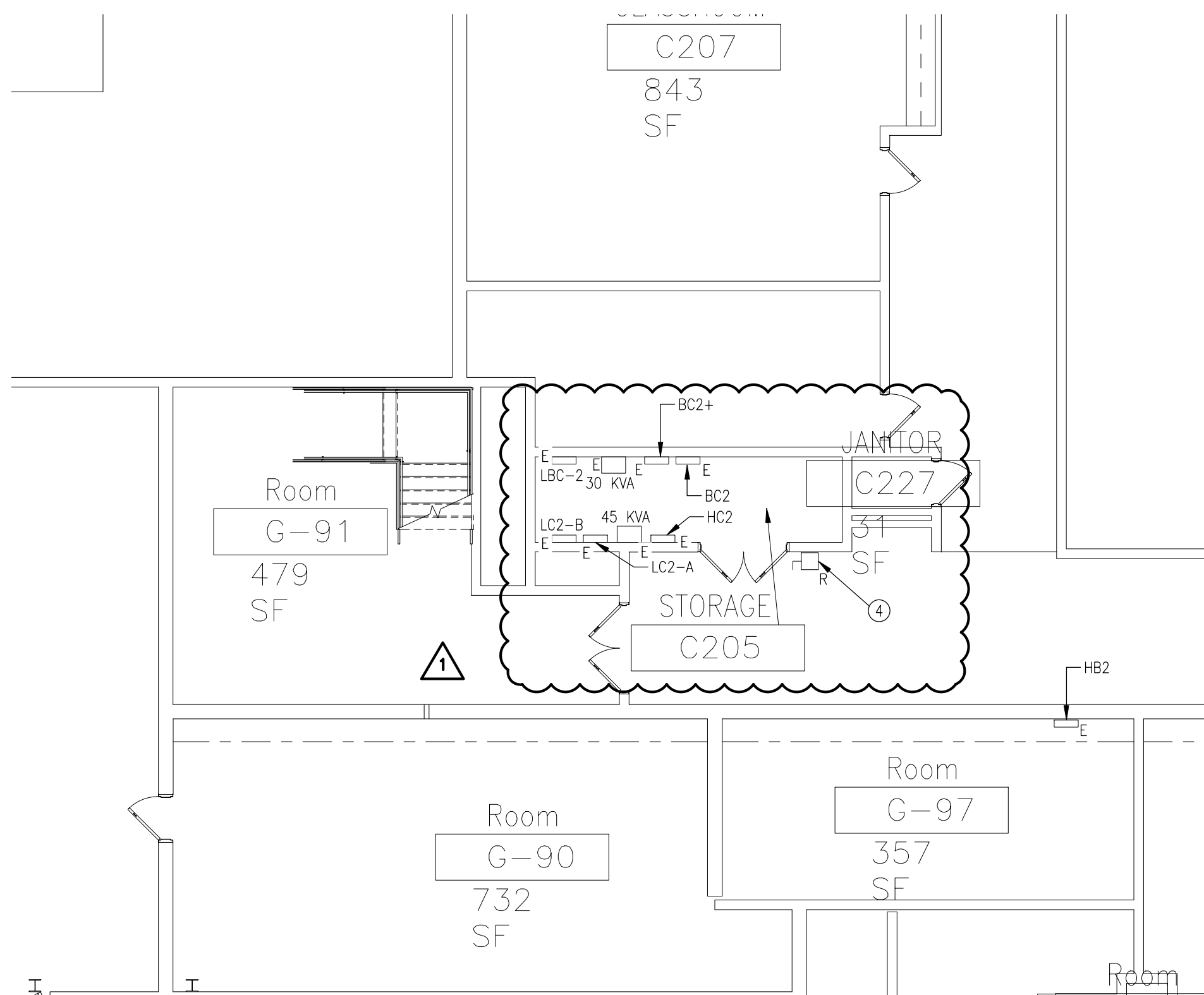
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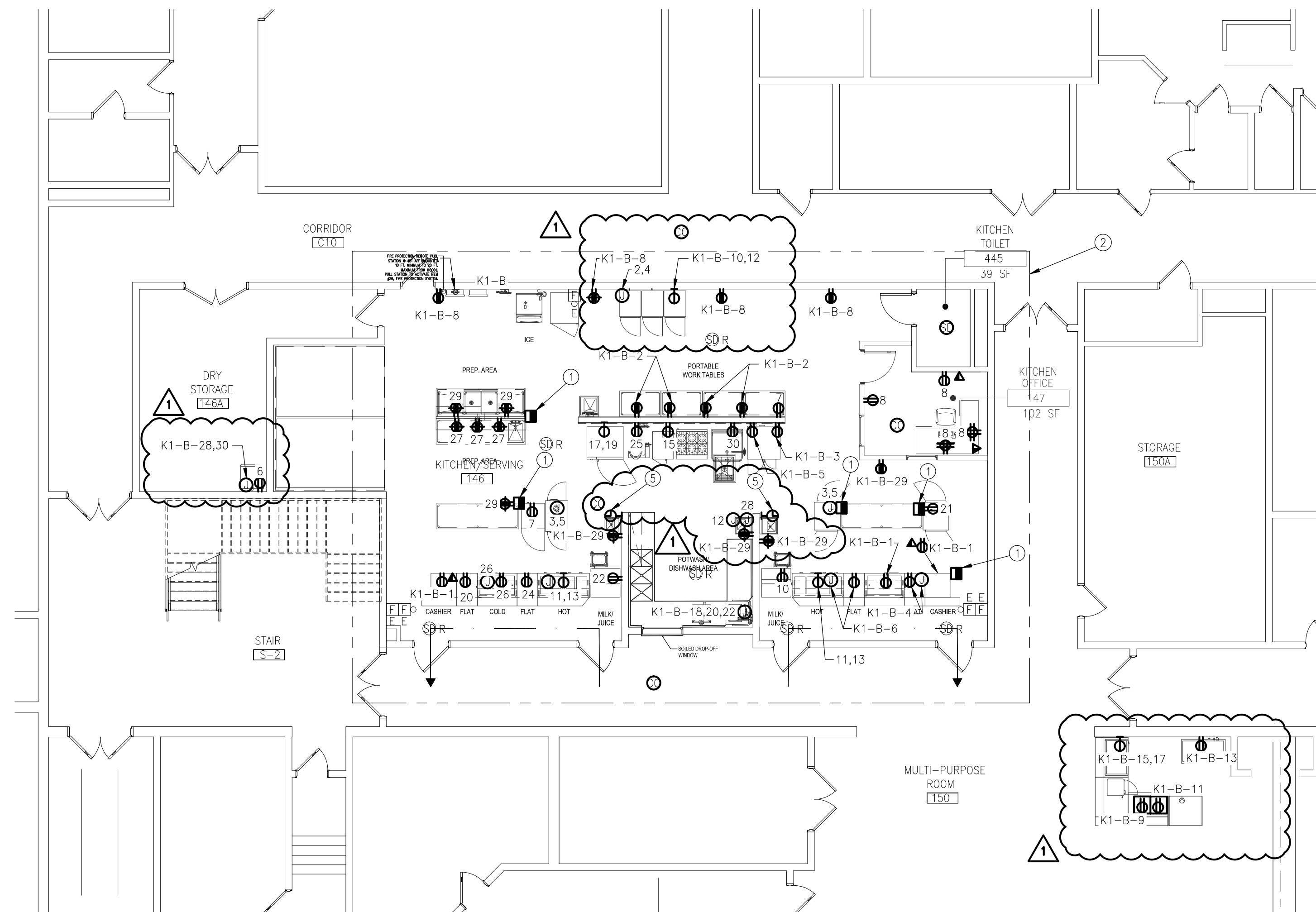
DRAWING
NUMBER:
E1.1



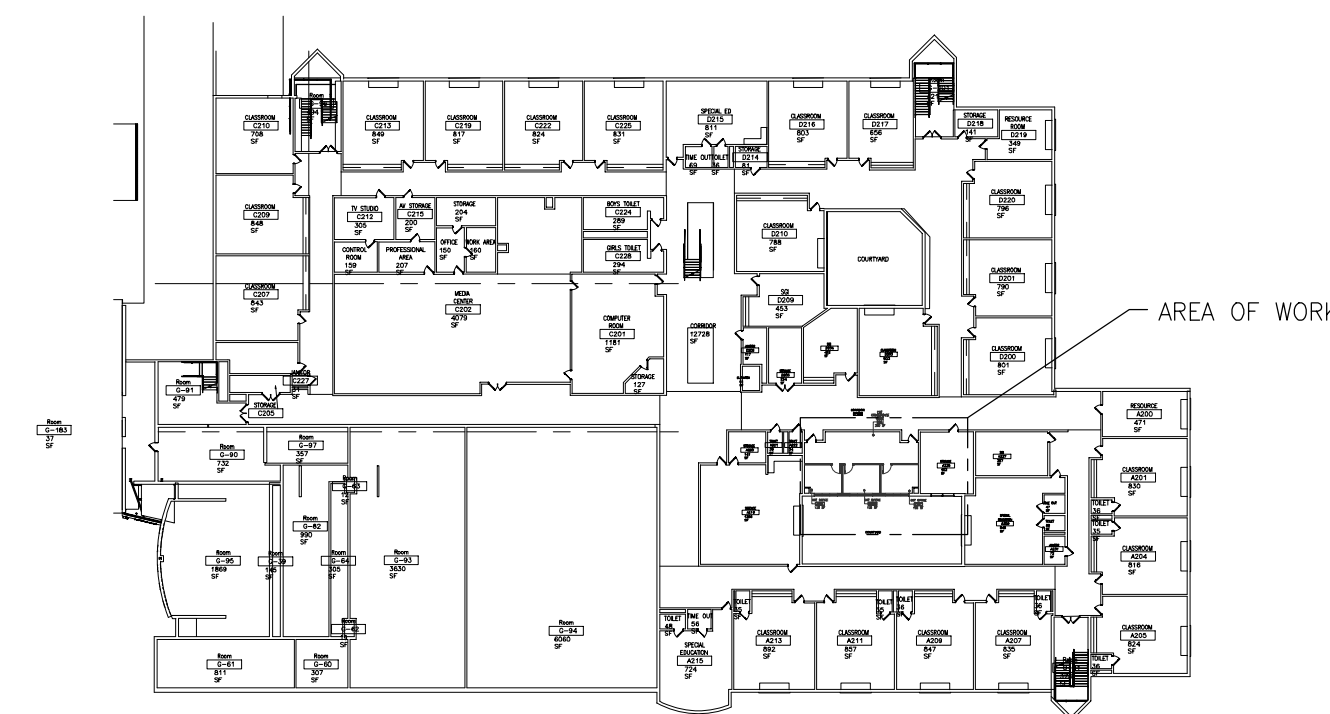
02
E1.2
ELECTRICAL PARTIAL SECOND FLOOR NEW WORK POWER PLAN
1/8"=1'-0"



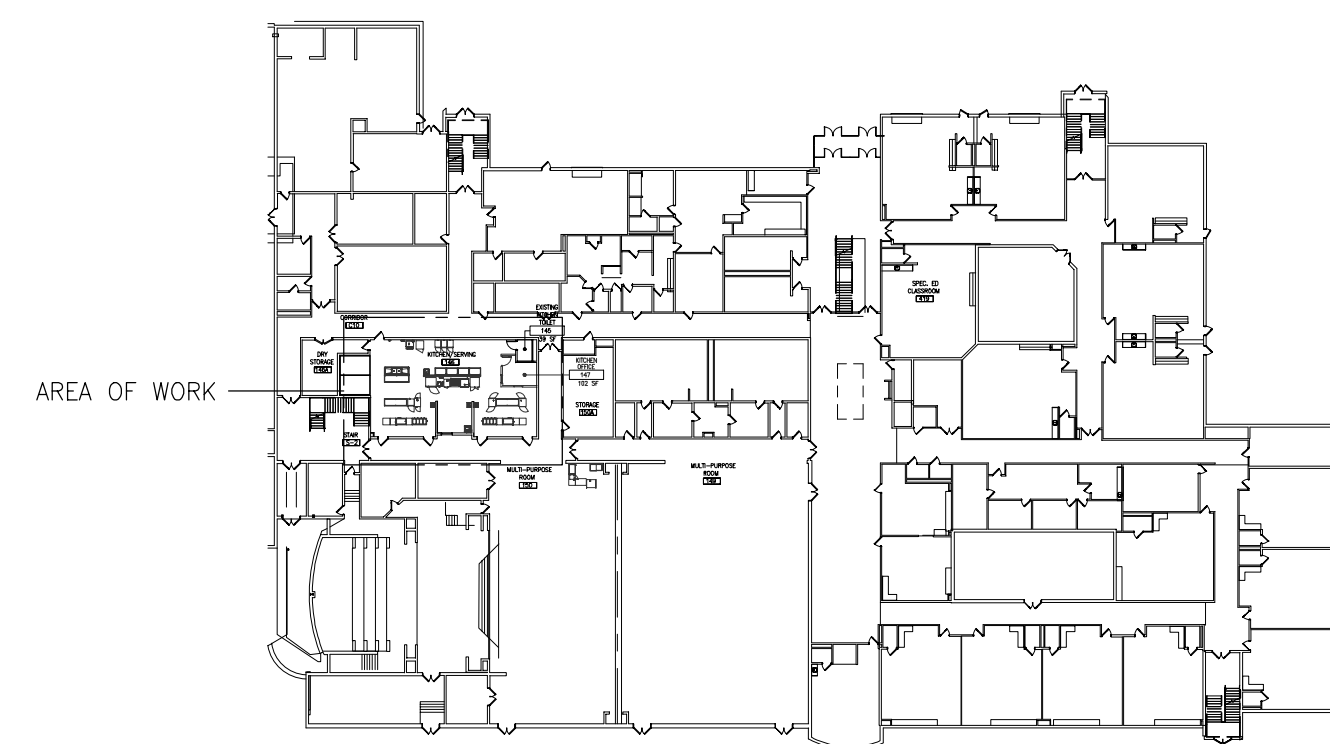
03
E1.1
ELECTRICAL PARTIAL SECOND FLOOR NEW WORK POWER PLAN
1/8"=1'-0"



01
E1.2
ELECTRICAL PARTIAL FIRST FLOOR NEW WORK POWER PLAN
1/8"=1'-0"



05
E1.2
SECOND FLOOR KEYPLAN
1/64"=1'-0"



04
E1.2
FIRST FLOOR KEYPLAN
1/64"=1'-0"

KEY NOTES

1. POWER POLE SHALL BE MODEL 30TP-2V AS MANUFACTURED BY LEGRAND LLC. OR APPROVED EQUAL. COORDINATE COLOR AND FINAL LOCATION WITH OWNER AND ARCHITECT. TYPICAL.
2. ALL ELECTRICAL DEVICES IN THIS AREA SHALL BE CIRCUITED TO PANEL LAD2-B UNLESS OTHERWISE NOTED.
3. ALL ELECTRICAL DEVICES IN THIS AREA SHALL BE CIRCUITED TO PANEL K-1B UNLESS OTHERWISE NOTED.
4. PROPOSED LOCATION OF RELOCATED MOTOR STARTER. COORDINATE FINAL LOCATION IN THE FIELD.
5. PROVIDE AND INSTALL (2) NEW COMBINATION CLOCK/INTERCOM UNITS IN THE KITCHEN AS SHOWN. PROVIDE ALL NECESSARY HARDWARE AND WIRING AND PROGRAMMING FOR A COMPLETE AND OPERATIONAL INSTALLATION OF (2) ADDITIONAL CLOCK/INTERCOM UNITS THAT WILL CONNECT TO THE EXISTING CLOCK/INTERCOM SYSTEM. NEW CLOCK/INTERCOM UNITS SHALL MATCH EXISTING.

GENERAL NOTES

1. ALL CIRCUITS IN THE KITCHEN SHALL BE FED FROM ABOVE. NO RECEPTACLES SHALL BE MOUNTED RECESSED OR SURFACE MOUNTED ON THE FLOOR.
2. COORDINATE THE LOCATION OF ALL DEVICES WITH THE OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
3. REFER TO FOOD SERVICE DRAWINGS FOR MOUNTING HEIGHTS OF RECEPTACLES AND JUNCTION BOXES WITHIN KITCHEN SPACE.
4. CIRCUIT NUMBERS ARE FOR GROUPING PURPOSES AND ACTUAL CIRCUIT NUMBERS SHALL DEPEND ON EXISTING CIRCUITS THAT REMAIN AND SPACES LEFT AFTER DEMOLITION IN PANELS K1-A & K1-B.

CODE REVIEW:

CERTIFICATE:



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1395 YARDVILLE HAMILTON SQUARE ROAD
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Phone: 609-695-7400

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ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE
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KSI PROJECT # 201000M_01

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301 E Evans
Brigantine, NJ 0820

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REVISIONS:

REVISION NAME	DATE
ADDENDUM #1	10/05/20

FOR BID: 09/23/2020

DRAWING TITLE:

ELECTRICAL
FIRST AND SECOND
FLOOR NEW WORK
POWER PLANS

COMMISSION NUMBER:

20K009

AGENCY NUMBER:
01-0570-300-20-2000
01-0570-300-21-1000
DO NOT SCALE THE DRAWINGS

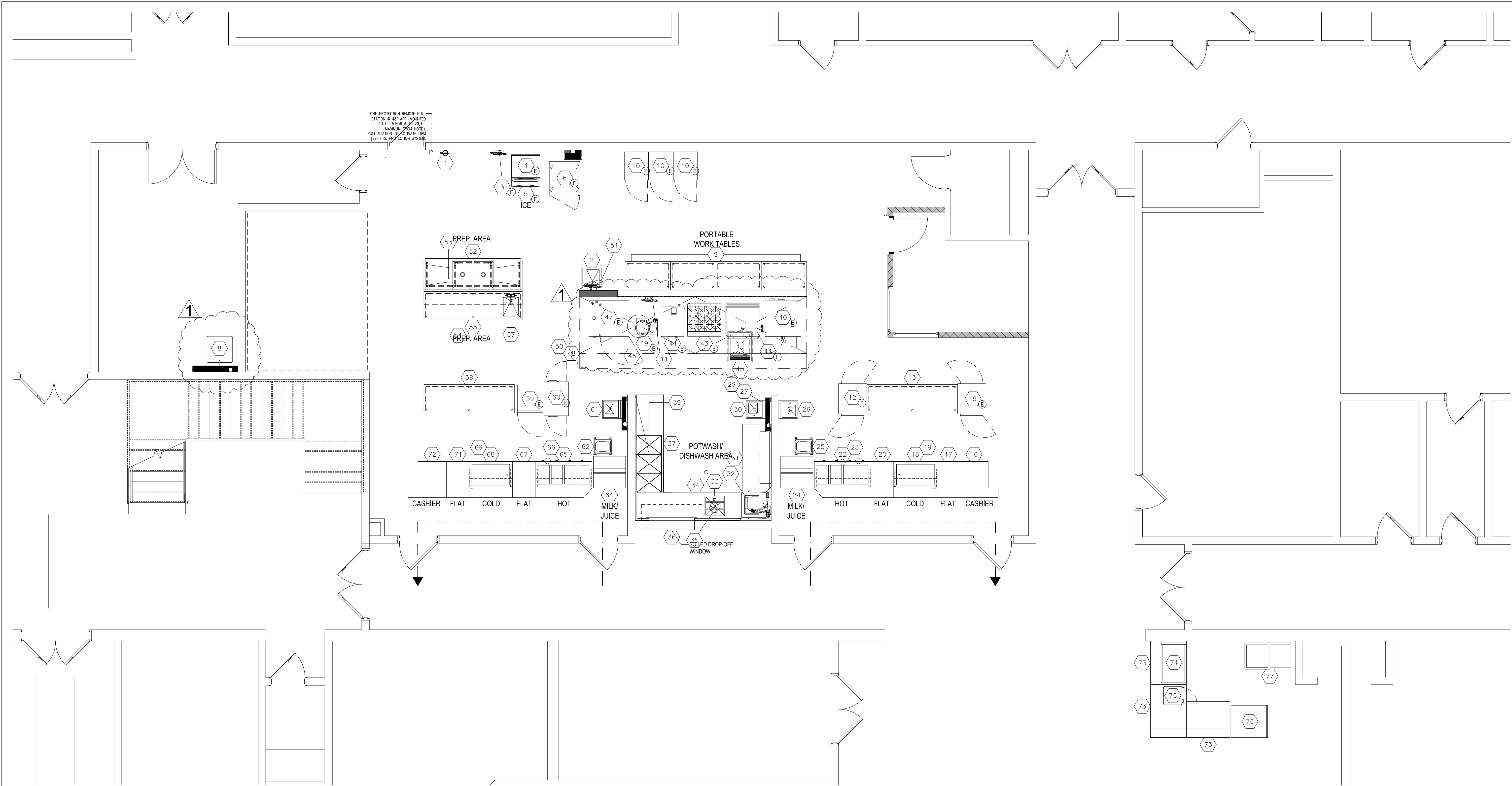
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NUMBER:

E1.2

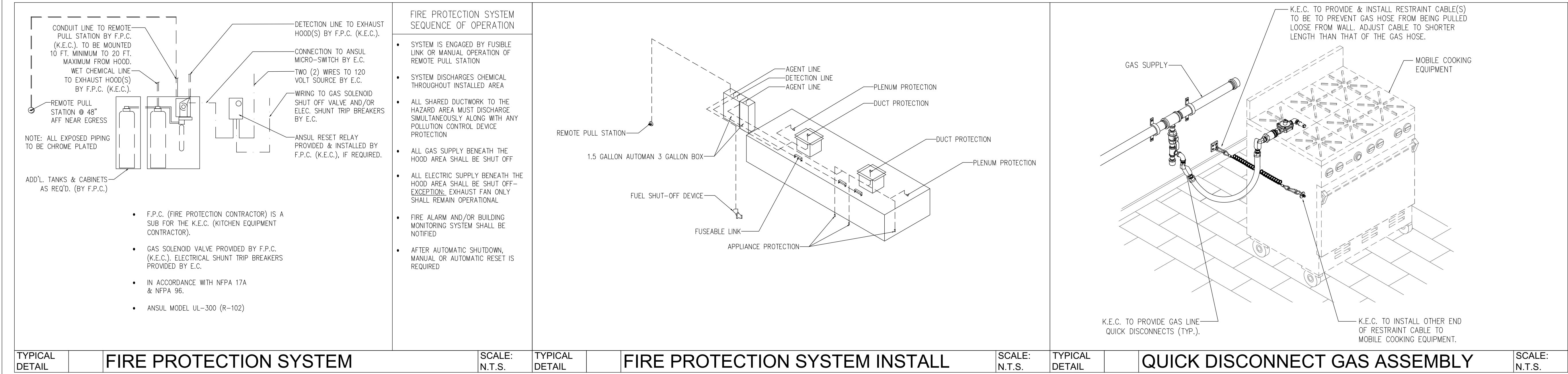
PANEL K1-A		SCHEDULE		COMMENTS		EXISTING PANEL		150A MAIN CIRCUIT BREAKER	
PANEL LOCATION		KITCHEN		VOLTS, 3 PHASE, 4 WIRE		225A BUS SIZE		NUMBER OF POLES	
208/120V		LOAD DESCRIPTION		CIR NO		FDR DATA		PANEL SHORT CIRCUIT RATING	
C.B. POLE NO.	C.B. TRIP AMP	C.B. LOAD VA	CIR NO	NO.	WIRE	COND	COND	C.B. LOAD VA	C.B. TRIP AMP
1	20	EXISTING LOAD	1	2	12	12	3/4	1,456	*20
**1	*20	749 REACH IN WARMER	3	2	12	12	3/4	1,456	*20
**1	*20	749 REACH IN FRIDGE	5	2	12	12	3/4	1,456	*20
**1	*20	840 GOLD PAN	9	2	12	12	3/4	1,456	*20
**1	*20	1,991 HOT FOOD UNIT	11	2	12	12	3/4	1,456	*20
**1	*20	240 TILT SKILLET	15	2	12	12	3/4	1,456	*20
**1	*20	400 STEAM OVEN	17	2	12	12	3/4	1,456	*20
**1	*20	400 REACH IN FRIDGE 2	19	2	12	12	3/4	1,456	*20
**1	*20	840 GOLD PAN 2	23	2	12	12	3/4	1,456	*20
**1	*20	600 STEAM KETTLE	25	2	12	12	3/4	1,456	*20
**1	*20	720 PREP AREA RECS	27	2	12	12	3/4	1,456	*20
**1	*20	720 PREP TABLE RECS	29	2	12	12	3/4	1,456	*20
MOUNTING: RECESSED		PH-LOAD		8413 6385 7156 VA		22 KVA		61 AMPS	
FED FROM:		CONNECTED LOAD		8413 6385 7156 VA		22 KVA		61 AMPS	
NEW GFCI TYPE CIRCUIT BREAKER TO MATCH EXISTING.		GROUNDING TERMINAL 100% NEUTRAL							
**SHUNT TRIP TYPE CIRCUIT BREAKER.									
**NEW CIRCUIT BREAKER TO MATCH EXISTING.									

PANEL K1-B		SCHEDULE		COMMENTS		EXISTING PANEL		225A MLO	
PANEL LOCATION		KITCHEN		VOLTS, 3 PHASE, 4 WIRE		225A BUS SIZE		NUMBER OF POLES	
208/120V		LOAD DESCRIPTION		CIR NO		FDR DATA		PANEL SHORT CIRCUIT RATING	
C.B. POLE NO.	C.B. TRIP AMP	C.B. LOAD VA	CIR NO	NO.	WIRE	COND	COND	C.B. LOAD VA	C.B. TRIP AMP
**1	*20	360 CASH REGISTER	1	2	12	12	3/4	720	*20
**1	*20	1,000 CONVECTION OVEN #1	5	2	12	12	3/4	2,040	*20
**1	*20	1,000 CONVECTION OVEN #2	9	2	12	12	3/4	2,040	*20
**1	*20	200 GAS SOLID STATE VALVE	11	2	12	12	3/4	1,100	*20
**1	*20	1,750 HEATED DISPLAY	13	2	12	12	3/4	3,208	*20
**1	*20	1,750 HEATED DISPLAY CASE #3	15	2	12	12	3/4	3,208	*20
**1	*20	1,000 ICE CREAM MACHINER	17	2	12	12	3/4	2,040	*20
**1	*20	1,000 HEATED DISPLAY CASE #3	19	2	12	12	3/4	2,040	*20
**1	*20	1,000 HEATED DISPLAY CASE #3	21	2	12	12	3/4	2,040	*20
**1	*20	1,000 HEATED DISPLAY CASE #3	23	2	12	12	3/4	2,040	*20
**1	*20	1,000 HEATED DISPLAY CASE #3	25	2	12	12	3/4	2,040	*20
**1	*20	1,000 HEATED DISPLAY CASE #3	27	2	12	12	3/4	2,040	*20
**1	*20	1,000 HEATED DISPLAY CASE #3	29	2	12	12	3/4	2,040	*20
MOUNTING: RECESSED		PH-LOAD		6812 11381 11901 VA		30 KVA		84 AMPS	
FED FROM:		CONNECTED LOAD		6812 11381 11901 VA		30 KVA		84 AMPS	
NEW GFCI TYPE CIRCUIT BREAKER TO MATCH EXISTING.		GROUNDING TERMINAL 100% NEUTRAL							
**SHUNT TRIP TYPE CIRCUIT BREAKER.									
**NEW CIRCUIT BREAKER TO MATCH EXISTING.									
**NEW UTILIZING EXISTING SPARE BREAKER.									

PANEL LAD2-B			SCHEDULE		COMMENTS		EXISTING PANEL		150A MAIN CIRCUIT BREAKER										
PANEL LOCATION			STORAGE D205						NUMBER OF POLES		42	KAC							
208/120V			VOLTS, 3 PHASE, 4 WIRE		150A BUS SIZE				PANEL SHORT CIRCUIT RATING										
C.B. POLE NO.	C.B. TRIP AMP	C.B. LOAD VA	LOAD DESCRIPTION		CIR NO	FDR DATA		PHASE A	PHASE B	PHASE C	LOAD DESCRIPTION								
						NO.	WIRE	COND											
1	20	EXISTING LOAD	1	GENTRY CONDUCTORS x LONG	1						2	EXISTING LOAD							
1	20	EXISTING LOAD	3	GENTRY CONDUCTORS x LONG	3						4	EXISTING LOAD							
1	20	EXISTING LOAD	5	GENTRY CONDUCTORS x LONG	5				0	0	6	EXISTING LOAD							
1	20	EXISTING LOAD	7	GENTRY CONDUCTORS x LONG	7				0	0	8	EXISTING LOAD							
1	20	EXISTING LOAD	9	GENTRY CONDUCTORS x LONG	9						10	EXISTING LOAD							
1	20	EXISTING LOAD	11	GENTRY CONDUCTORS x LONG	11				0	0	12	EXISTING LOAD							
1	20	EXISTING LOAD	13	GENTRY CONDUCTORS x LONG	13						14	EXISTING LOAD							
1	20	EXISTING LOAD	15	GENTRY CONDUCTORS x LONG	15				0	0	16	EXISTING LOAD							
1	20	EXISTING LOAD	17	GENTRY CONDUCTORS x LONG	17						18	EXISTING LOAD							
1	20	EXISTING LOAD	19	GENTRY CONDUCTORS x LONG	19				0	0	20	EXISTING LOAD							
1	20	EXISTING LOAD OFF	21	GENTRY CONDUCTORS x LONG	21						22	EXISTING LOAD							
1	20	EXISTING LOAD OFF	23	GENTRY CONDUCTORS x LONG	23				0	0	24	EXISTING LOAD							
1	20	EXISTING LOAD OFF	25	GENTRY CONDUCTORS x LONG	25						26	EXISTING LOAD							
1	20	EXISTING LOAD OFF	27	GENTRY CONDUCTORS x LONG	27				0	0	28	EXISTING LOAD							
1	20	EXISTING LOAD OFF	29	GENTRY CONDUCTORS x LONG	29						30	EXISTING LOAD							
**1	*425	3,744	RECU-1		2	8	10	1	6644		2	12	12	3/4	34	EXIST RECEPTION 200A RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		35	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		37	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		39	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		41	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		43	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		45	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		47	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		49	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		51	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		53	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		55	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		57	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		59	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		61	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		63	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		65	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		67	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		69	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		71	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		73	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		75	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		77	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		79	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		81	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		83	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		85	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		87	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
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**1	*425	144	HP-1, HP-2, HP-3, HP-4		91	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
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**1	*425	144	HP-1, HP-2, HP-3, HP-4		95	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		97	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		99	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		101	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		103	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		105	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		107	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		109	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		111	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		113	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		115	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		117	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		119	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		121	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		123	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		125	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		127	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		129	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		131	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		133	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		135	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		137	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		139	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		141	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		143	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		145	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		147	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		149	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		151	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		153	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		155	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		157	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		159	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		161	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		163	2	12	12	3/4		5	12	12	3/4	34	EXIST OFFICE 226B RECS	800	*20	**1
**1	*425	144	HP-1, HP-2, HP-3, HP-4		165	2	12	12	3/4		5	12	12	3/4					



FOOD SERVICE EQUIPMENT PLAN
SCALE: 1/4"=1'-0"



CODE REVIEW:

CERTIFICATE:



SPIEZZLE ARCHITECTURAL GROUP INC.
1395 YARDVILLE HAMILTON SQUARE ROAD
SUITE 2A
HAMILTON, NJ 08691
Phone: 609-695-7400

SIGNATURE:
THOMAS S. PERRINO 21A01525400
SCOTT E. DOWNE 21A01674400
STEVEN LEONE 21A01170100
STEVEN G. SIEGEL 21A01564000
SPIEZZLE ARCHITECTURAL GROUP, INC. 21AC00063000

SEAL:

CONSULTANTS:

BID SET 09-24-20

PROJECT:

KITCHEN AND OFFICE
RENOVATIONS AT
BRIGANTINE
CONSOLIDATED
SCHOOL
301 EAST EVANS BLVD.
BRIGANTINE, NJ 08203

FOR

BRIGANTINE BOARD
OF EDUCATION
301 EAST EVANS BLVD.,
BRIGANTINE, NJ 08203

FOR CODE REVIEW: DDMMYYYY

REVISIONS:

REVISION NAME	DATE
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FOR BID: 09/24/20

DRAWING TITLE:

FOOD SERVICE
EQUIPMENT PLAN
SCHEDULE

COMMISSION NUMBER:
20K009

AGENCY NUMBER:
01-0570-300-20-2000
01-0570-300-21-1000

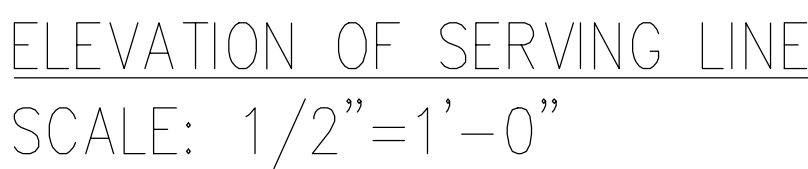
DO NOT SCALE THE DRAWINGS

DRAWING
NUMBER:

FS 1.0

Figure 1 consists of 12 subplots arranged horizontally, each representing a different value of α from 0.1 to 1.2 in increments of 0.1. Each subplot shows the probability distribution of the number of nodes in the largest component of a network. The x-axis for each plot ranges from 0 to 48, and the y-axis ranges from 0 to 1. The distributions are as follows:

- $\alpha = 0.1$: Peak at 0 nodes (probability ~0.9).
- $\alpha = 0.2$: Peak at 0 nodes (probability ~0.8).
- $\alpha = 0.3$: Peak at 0 nodes (probability ~0.7).
- $\alpha = 0.4$: Peak at 0 nodes (probability ~0.6).
- $\alpha = 0.5$: Peak at 0 nodes (probability ~0.5).
- $\alpha = 0.6$: Peak at 0 nodes (probability ~0.4).
- $\alpha = 0.7$: Peak at 0 nodes (probability ~0.3).
- $\alpha = 0.8$: Peak at 0 nodes (probability ~0.2).
- $\alpha = 0.9$: Peak at 0 nodes (probability ~0.1).
- $\alpha = 1.0$: Peak at 48 nodes (probability ~0.9).
- $\alpha = 1.1$: Peak at 48 nodes (probability ~0.8).
- $\alpha = 1.2$: Peak at 48 nodes (probability ~0.7).



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KITCHEN AND OFFICE
RENOVATIONS AT
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301 EAST EVANS BLVD.
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FOR
BRIGANTINE BOARD
OF EDUCATION
301 EAST EVANS BLVD.,
BRIGANTINE, NJ 08203

FOR CODE REVIEW: DR/MM/YY

REVISIONS:

	REVISION NAME	DATE
1	ADDENDUM #1	10/05/20

FOR BID: 09/24/20

DRAWING TITLE:

FOOD SERVICE EQUIPMENT SCHEDULE

COMMISSION NUMBER:
20K009

AGENCY NUMBER:
01-0570-300-20-2000
01-0570-300-21-1000

DO NOT SCALE THE DRAWINGS

DRAWING

NUMBER: FS2.0

HOOD INFORMATION - Job#4460207

HOOD NO	TAG	MODEL	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/Ft	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)							TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CLING RIG	
									WIDTH	LENGTH	HEIGHT	DIA	CFM	VEL	SP			END TO END	RDV
1	48,50 L	6024 ND-2-PSP-F	10' 3"	450 Deg	I	Medium	195	2000	10"	19"	4"		2000	1516	-0.828'	1750	304 SS 100%	LEFT	ALONE
2	48,50 L	6024 ND-2-PSP-F	9' 9"	450 Deg	I	Medium	205	2000	10"	19"	4"		2000	1516	-0.886'	1750	304 SS 100%	RIGHT	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)					FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	
1	48,50 L	Captrate Solo Filter	7	16"	16"	85% See Filter Spec	3	Recessed	ND						YES	623 LBS
2	48,50 L	Captrate Solo Filter	7	16"	16"	85% See Filter Spec	3	Recessed	ND						YES	602 LBS

HOOD OPTIONS

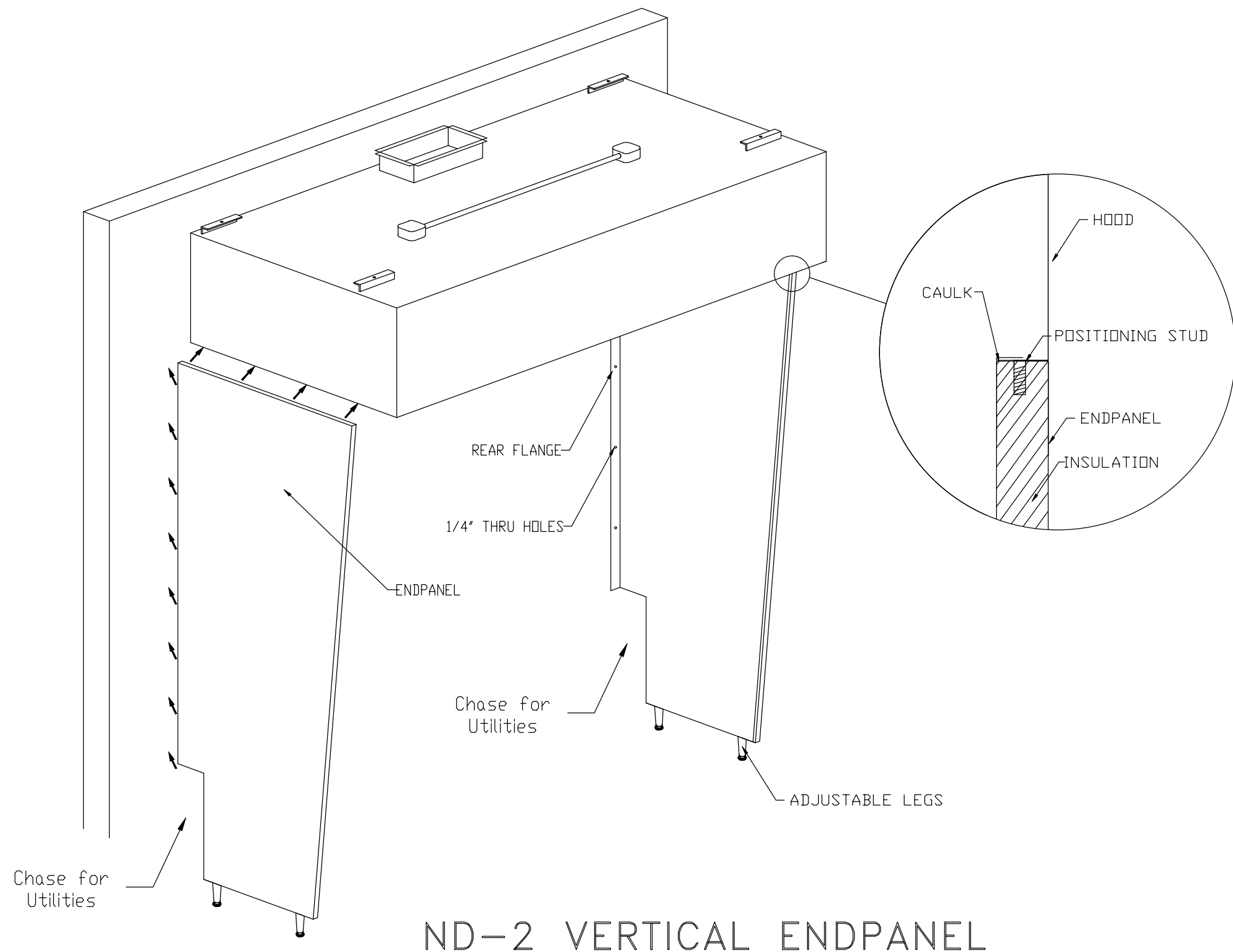
HOOD NO	TAG	OPTION
1	48,50 L	FIELD WRAPPER 18.00" High Front, Left
		BACKSPLASH 80.00" High X 240.00" Long 304 SS Vertical
		BALANCE DAMPERS
		STRUCTURAL FRONT PANEL
		RISER SENSOR INSTALL 6IN PLEN
2	48,50 L	LEFT VERTICAL END PANEL 27" Top Width, 21" Bottom Width, 80" High Insulated 304 SS
		FIELD WRAPPER 18.00" High Front, Right
		BALANCE DAMPERS
		STRUCTURAL FRONT PANEL
		RISER SENSOR INSTALL 6IN PLEN
		RIGHT VERTICAL END PANEL 27" Top Width, 21" Bottom Width, 80" High Insulated 304 SS

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1	48,50 L	Front	123"	20"	6"	MUA	12"	20"	583	0.184'	
						MUA	12"	20"	583	0.184'	
						MUA	12"	20"	583	0.184'	
						MUA	12"	20"	583	0.184'	
2	48,50 L	Front	117"	20"	6"	MUA	12"	20"	583	0.184'	
						MUA	12"	20"	583	0.184'	
						MUA	12"	20"	583	0.184'	
						MUA	12"	20"	583	0.184'	

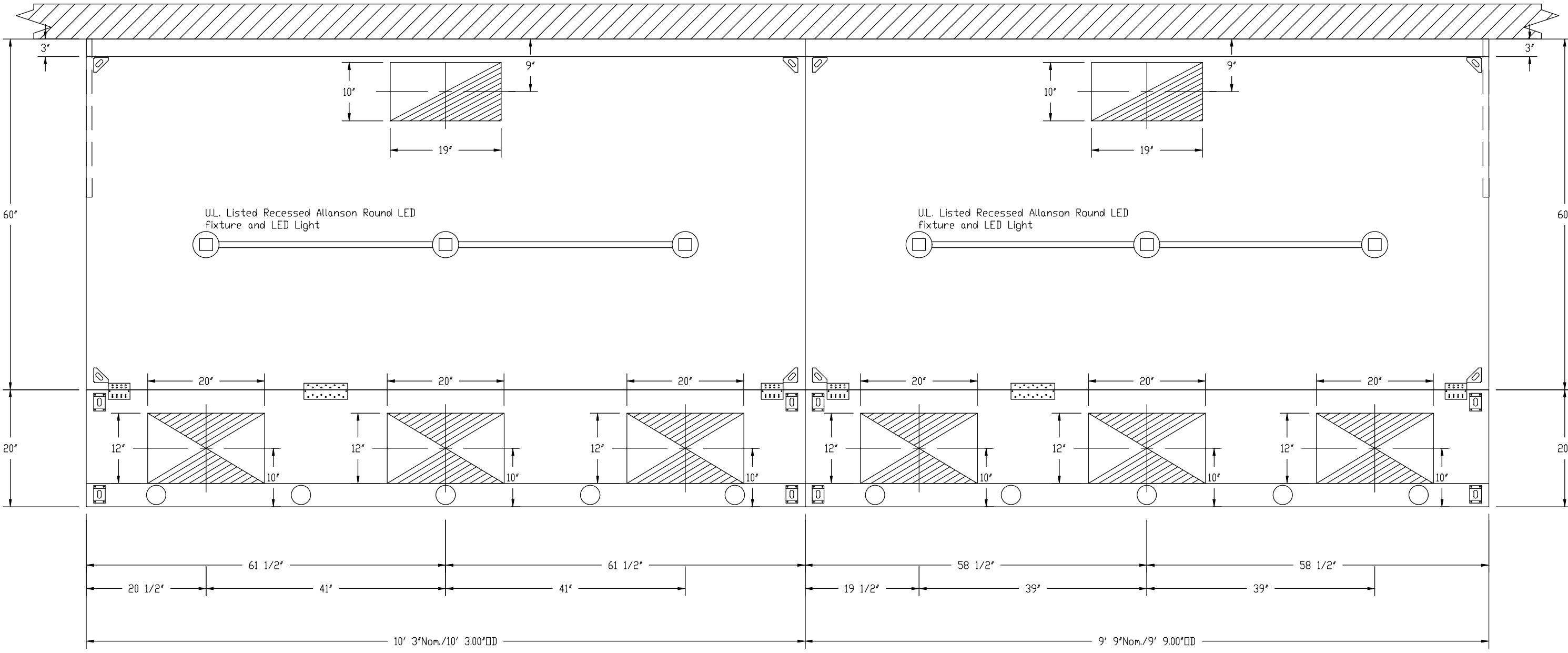
Fire System Information - Job#4460207

FIRE SYSTEM NO	Tag	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1	29	Ansul R102	30/30	7	Wall Mount Left	N/A



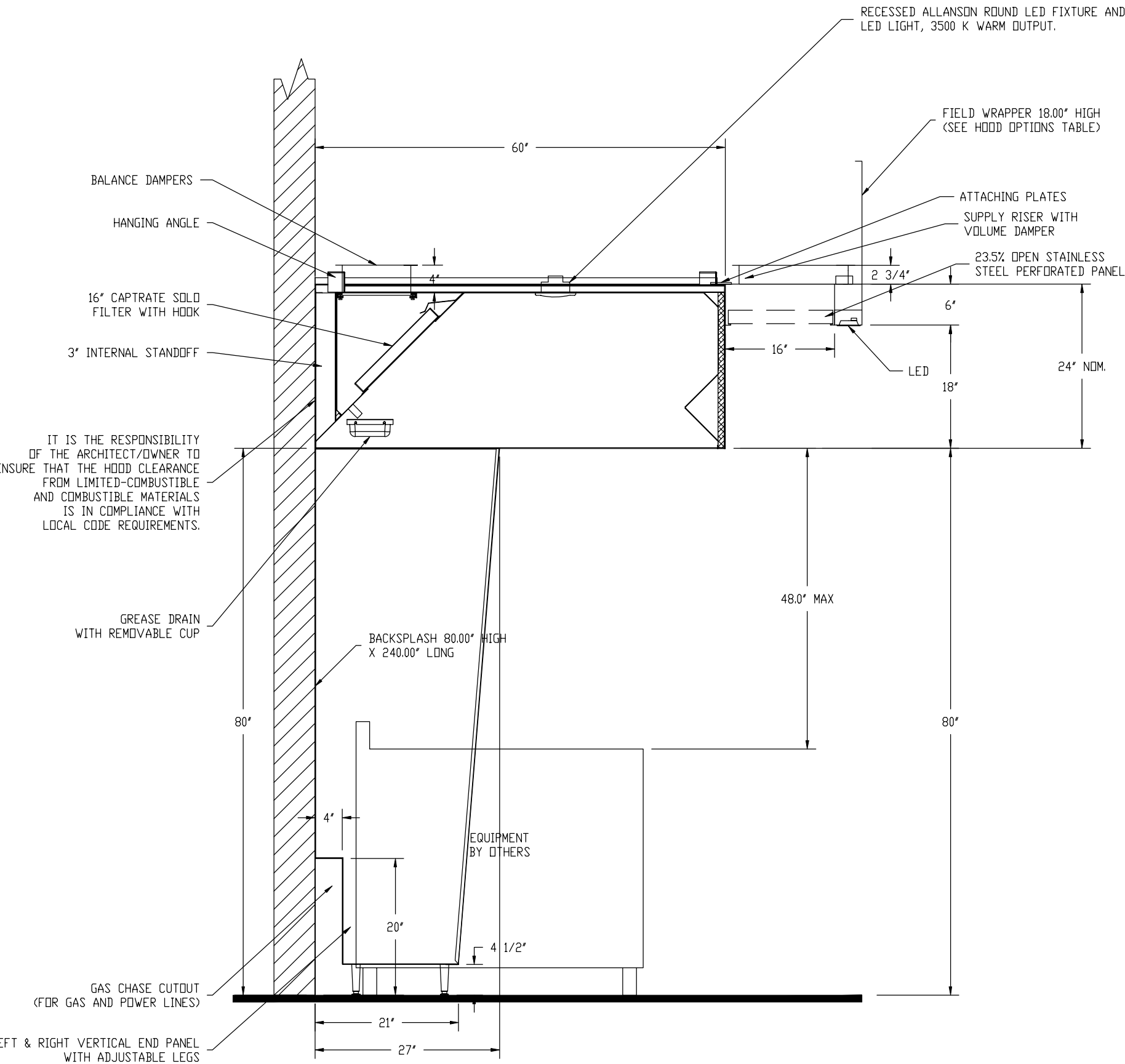
ND-2 VERTICAL ENDPANEL

VERIFY CEILING HEIGHT
---' / ---"
Height required to verify hood will fit and to size the enclosure panels (wrappers)



PLAN VIEW - Hood #1 (48,50 L)
10' 3.00" LONG 6024ND-2-PSP-F

PLAN VIEW - Hood #2 (48,50 L)
9' 9.00" LONG 6024ND-2-PSP-F



SECTION VIEW - MODEL 6024ND-2-PSP-F
HOOD - #1 (48,50 L)
HOOD - #2 (48,50 L)

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

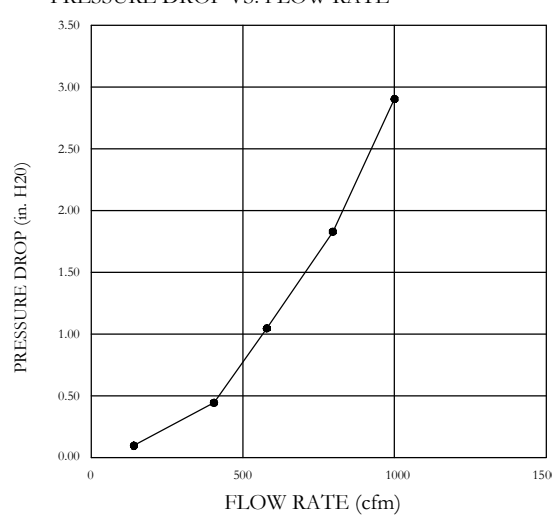
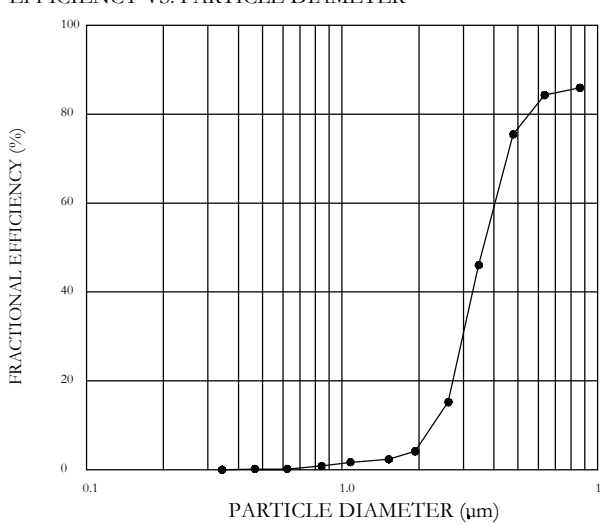
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

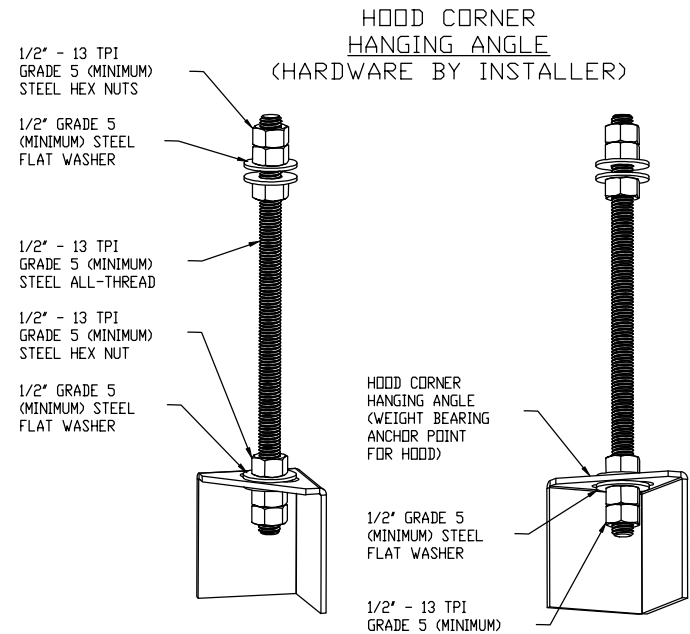
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 80% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05 MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS PARTICLE DIAMETER

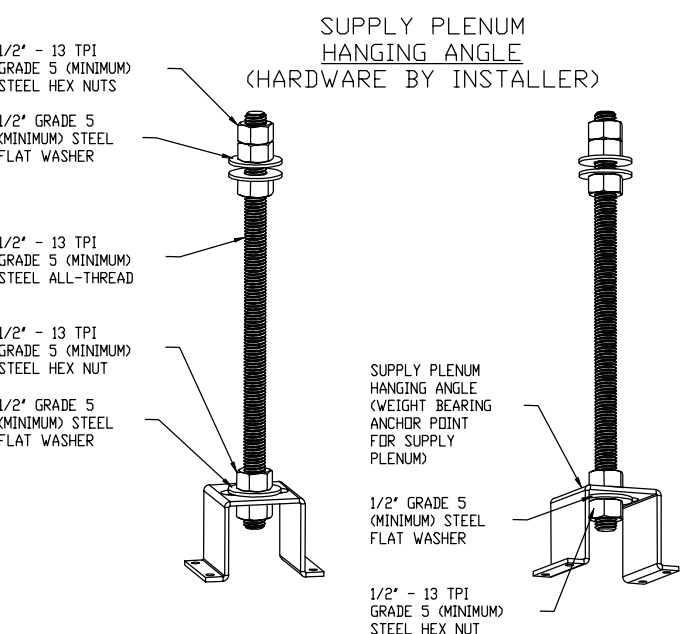


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (CMC)
ULC-S649



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

ETL ETL BUILT TO ACCORDANCE WITH NFPA #96

NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

IMC 2018
SECTIONS 506, 507, & 508

ETL LISTING DESCRIPTION BLOCK
THE CAPTIVE AIRE MODEL
ND-2 HAS BEEN E.T.L.
TESTED, LISTED, AND
APPROVED TO EXHAUST
A MINIMUM OF 150 CFM PER
LINEAR FOOT OVER 450
DEGREE COOKING EQUIPMENT

CODE REVIEW:

CERTIFICATE:



SPIEZE ARCHITECTURAL GROUP INC.
1395 YARDVILLE HAMILTON SQUARE ROAD
SUITE 2A
HAMILTON, NJ 08631
Phone: 609-695-7400

SIGNATURE:
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SCOTT E. DOMANE 21A01674400
STEVEN LEONE 21A01170100
STEVEN G. SEBEL 21A01564200
SPIEZE ARCHITECTURAL GROUP, INC. 21A00063000

SEAL:

CONSULTANTS:

BID SET 09-24-20

PROJECT:

KITCHEN AND OFFICE
RENOVATIONS AT
BRIGANTINE
CONSOLIDATED
SCHOOL
301 EAST EVANS BLVD.
BRIGANTINE, NJ 08203

FOR
BRIGANTINE BOARD
OF EDUCATION
301 EAST EVANS BLVD.,
BRIGANTINE, NJ 08203

FOR CODE REVIEW: DOMM/YYY

REVISIONS:		
REVISION NAME	DATE	

FOR BID: 09/24/20

DRAWING TITLE:

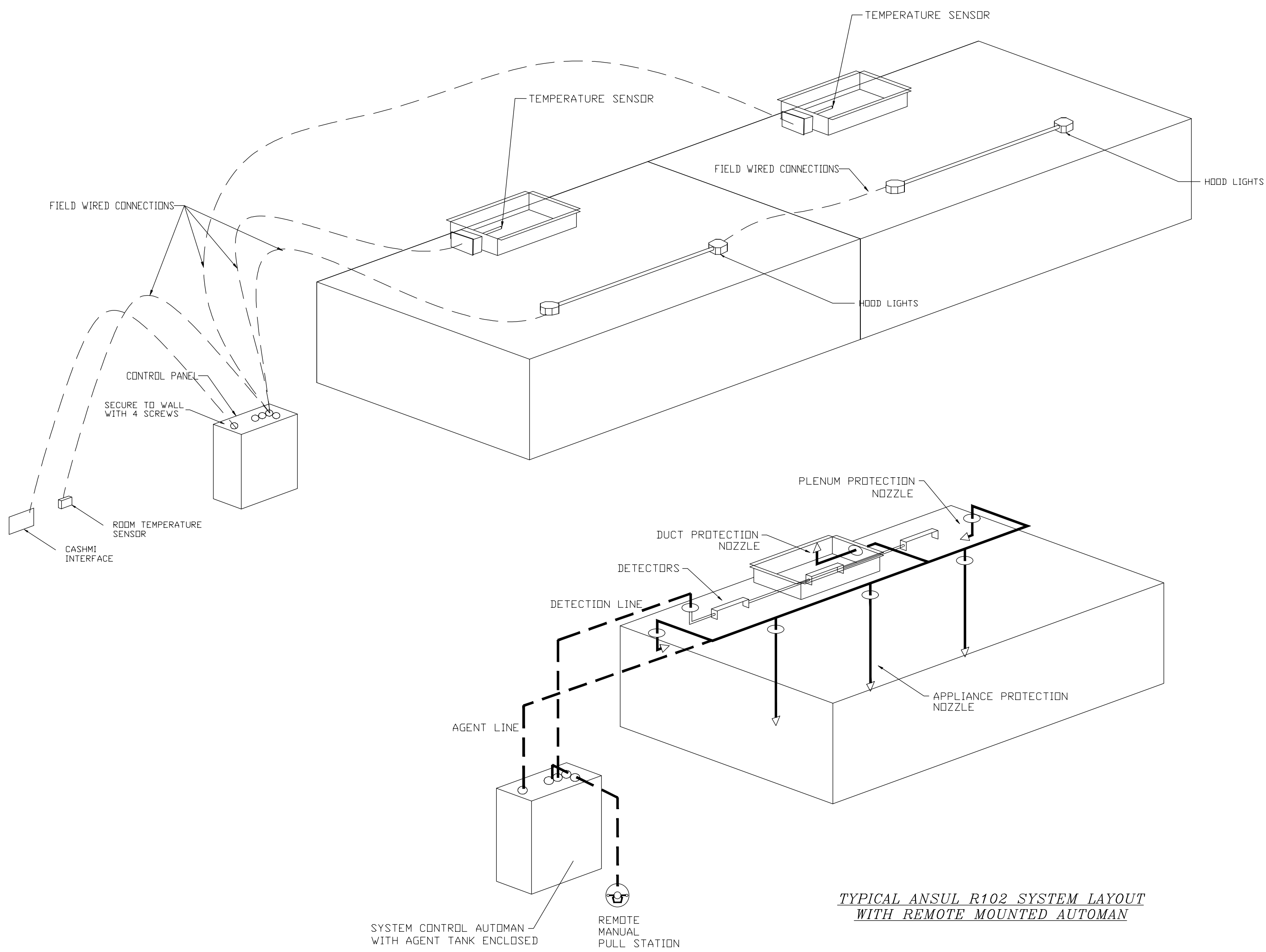
FOOD SERVICE
EXHAUST HOOD
SCHEDULE & NOTES

COMMISSION NUMBER:
20K009

AGENCY NUMBER:
01-0570-300-20-2000
01-0570-300-21-1000
DO NOT SCALE THE DRAWINGS

DRAWING
NUMBER:
FS3.0

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	#	HP	VOLT	FLA
1	27	DCV-1111	Wall Mount in SS Box	08 - Ship Loose w/ Prewire	1 Light 1 Fan	Smart Controls DCV	KEF-1	Exhaust	3	5000	208	15.8
							MUA-1	Supply	3	3000	208	9.5



THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION IN THE EVENT OF A FIRE. REMOTE RELEASE DEVICES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE-RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH A RELEASE MECHANISM FOR THE RELEASE OF AGENT.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/ LINKAGE ASSEMBLY.

Automatic: The system operates based on the differential between room temperature and the temperature at the hood cavity or exhaust duct collar. Fans activate at a configurable temperature differential threshold. Depending on the job configuration each fan zone can be configured as static or dynamic. These terms refer to whether a variable motor (such as EC Motors or VFD driven motors) modulate with temperature. If the panel is equipped with variable speed fans and the zone is defined as "dynamic", these will modulate within a user-defined range based on the temperature differential. Panels equipped with variable speed fans and a fan zone defined as "static", fans will run at a set speed calculated for the drive. Demand control ventilation systems are capable of modulating exhaust and make up air fan speeds per the requirements outlined in IECC 403.2.8.

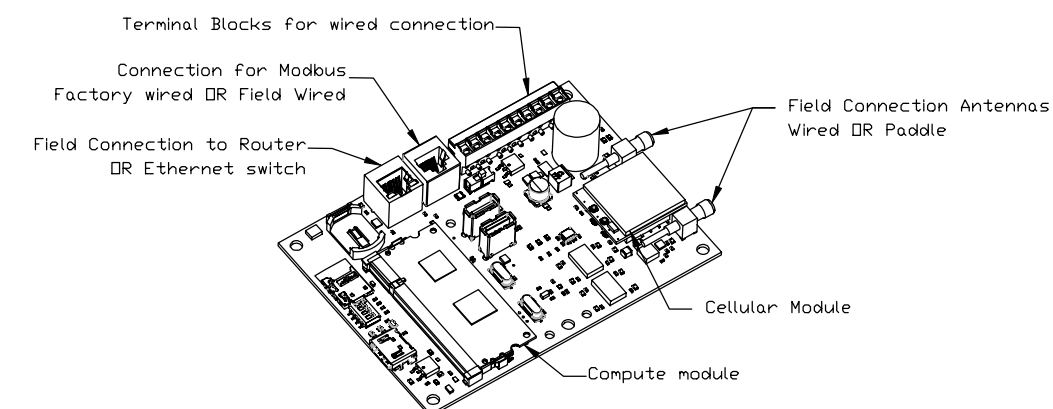
- Schedule: A weekly schedule can be set to run fans for a specified period throughout the day. There are three occupied times per day to allow for the user to set up a time that is suitable to their needs. Any time that is within the defined occupied time, the system will run at modulation mode and follow the fan procedure algorithm based on temperature during this time. During unoccupied time, the system will have an extra offset to prevent unintended activation of the system during a time where the system is not being occupied.

Controls shall be capable of reducing exhaust and supply airflow quantities by using a modulating speed control system. High and Low speeds shall be adjustable by variable frequency drives. A temperature switch in the exhaust duct shall control airflow set point. A MAX airflow override button shall be supplied with an adjustable timer.

Control shall be used in kitchen exhaust applications to reduce exhaust and supply air volumes while cooking appliances are idling.

The Demand Control Ventilation System complies with IMC 507.1.1 by interlocking with cooking appliances through means of a heat sensor to automatically activate exhaust fans during cooking operations.

Demand control ventilation systems are capable of modulating exhaust and make up air fan speeds per the requirements outlined in IECC 403.2.8.



- Hood control panel to support communications to cloud-based Building Management System.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

DCV Packages	Function
Room Temperature	MONITOR
Duct Temperature(s)	MONITOR
MEA Discharge Temperature	MONITOR
Kelohm RTD Discharge Temperature	MONITOR
Fan Speed	MONITOR
Fan Amperage	MONITOR
Fan Power	MONITOR
VFD Faults	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Cooling Trip Percentages	MONITOR
Fir Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Prep Time Button	MONITOR & CONTROL
Pause Button	MONITOR & CONTROL
Lights Button	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

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SEAL

CONSULTANTS

BID SET 09-24-20

KITCHEN AND OFFICE
RENOVATIONS AT
BRIGANTINE
CONSOLIDATED
SCHOOL

301 EAST EVANS BLVD.
BRIGANTINE, NJ 08203

FOR
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301 EAST EVANS BLVD.,
BRIGANTINE, NJ 08203

FOR CODE REVIEW: DD/MM/YYYY

REVISIONS:

	REVISION NAME	DATE
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FOR BID

09/24/20

DRAWING TITLE

FOOD SERVICE
EXHAUST HOOD
SCHEDULE & NOTES
CONTINUED

COMMISSION NUMBER:
20K009

AGENCY NUMBER:
01-0570-300-20-2000
01-0570-300-21-1000

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DRAWING NUMBER:

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FS4.0

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	Ø	VOLTS	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	KEF-1	1	DU240FA	4000	1.750	941	DDP,PREMIUM	5.000	2.3480	3	208	15.8	909 FPM	301	18.4

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	Ø	VOL.T	FLA	MCA	MDCP	WEIGHT (LBS)	SDNES
2	MUA-1	1	A2-1BT-400-20D	20HF-2-MID	A2-1BT-400	2500	3500	0.750	1413	ODP,PREMIUM	3.000	1.8270	3	208	9.5	11.9A	20A	1223	13

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
2	MUA-1	315705	252564	60 deg F	7 in. w.c. - 14 in. w.c.	Natural	80

FAN UNIT NO	TAG	QTY	Description
2	KEF-1	1	Grease Box
		1	Standard Electrical Connection (main and control panel) for Standing Power - Single Module. If a Non-DCV Prewire is used on the IBT Heater, the R2B #47, "MS", "MW", or "F2P" Option Prewire must be selected. Do not provide supply starter in prewire.
		1	Motorized Backdraft Damper Fan A2-1 Housing
	MUA-1	1	Inlet Pressure Gauge, 0-35"
		1	Manifold Pressure Gauge, 0 to 10" w.c., 1 Furnace
		1	IBT Size 1 & 2 Side Discharge
			Separate IBV Wiring Package (Required and used only for DCV or Prewire with RTD) - Three Phase Only

NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	48 LBS	Curb	31.500"W x 31.500"L x 20.000"H Right Vented Hinged
2	# 2	MUA-1	107 LBS	Curb	31.000"W x 79.000"L x 20.000"H Right Insulated
	# 2			Rail	6.000"W x 31.000"L x 20.000"H Right

Technical drawing of the rear view of the engine assembly. Dimensions are provided in inches:

- Overall width: 43 3/8
- Overall height: 37 1/2
- Height from base to top of fuel tank: 36 5/8
- Height of base: 2
- Width of base: 23 7/8
- Width of lower section: 31
- Width of lower section (dashed line): 33

Labels and components:

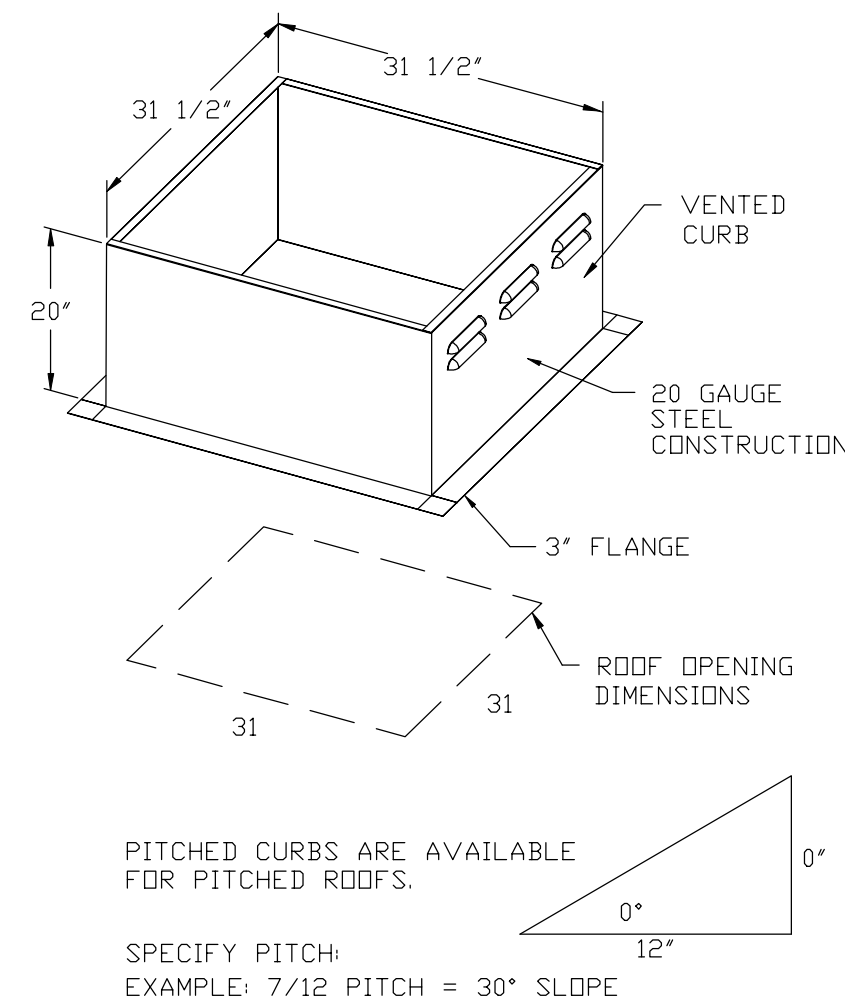
- GREASE DRAIN
- DUCTWORK BETWEEN EXHAUST RISER IN HIDD AND FAN (BY OTHERS)

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300F (149C)
- GREASE CLASSIFICATION TESTING

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

GREASE BOX.



PITCHED CURBS ARE AVAILABLE
FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE

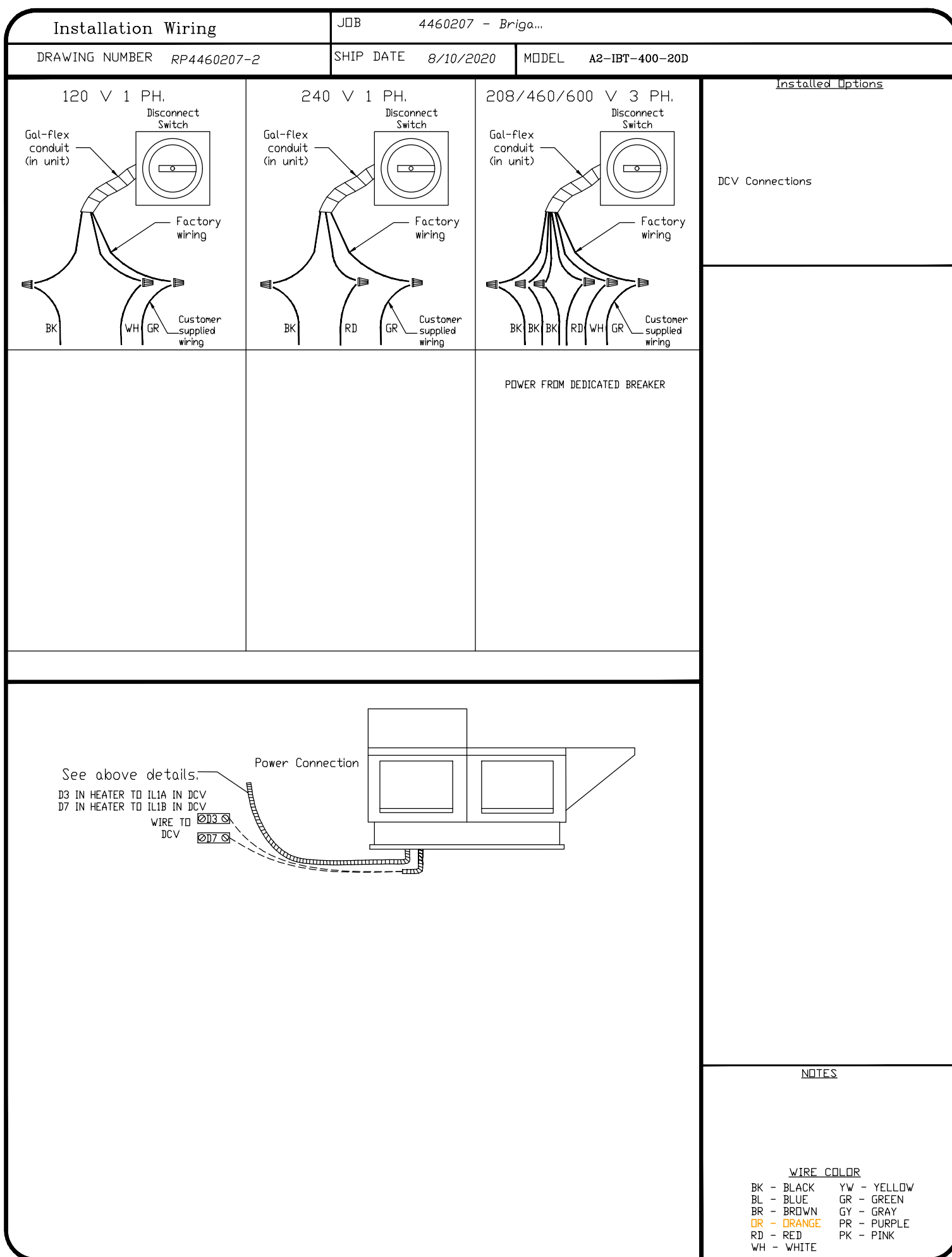
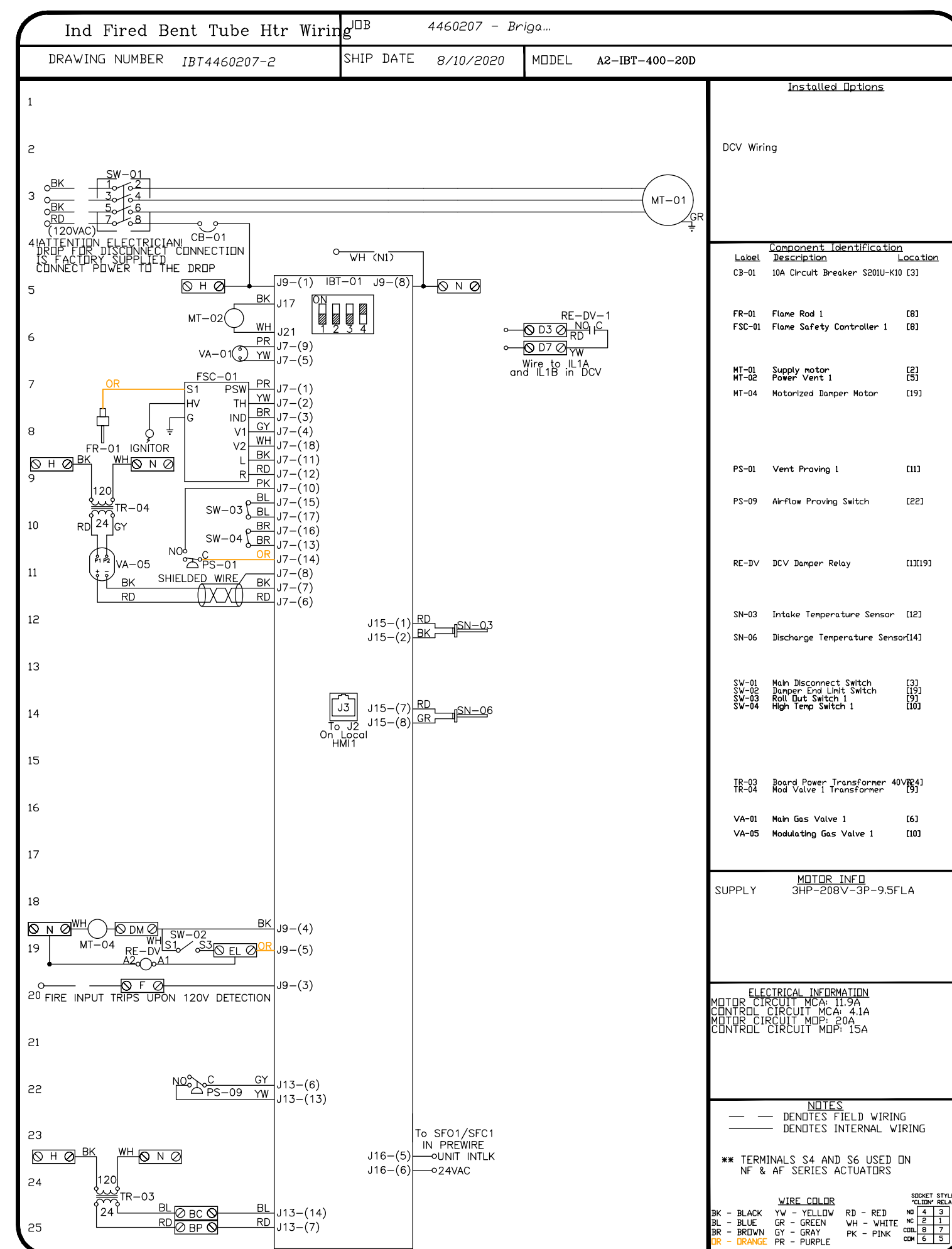
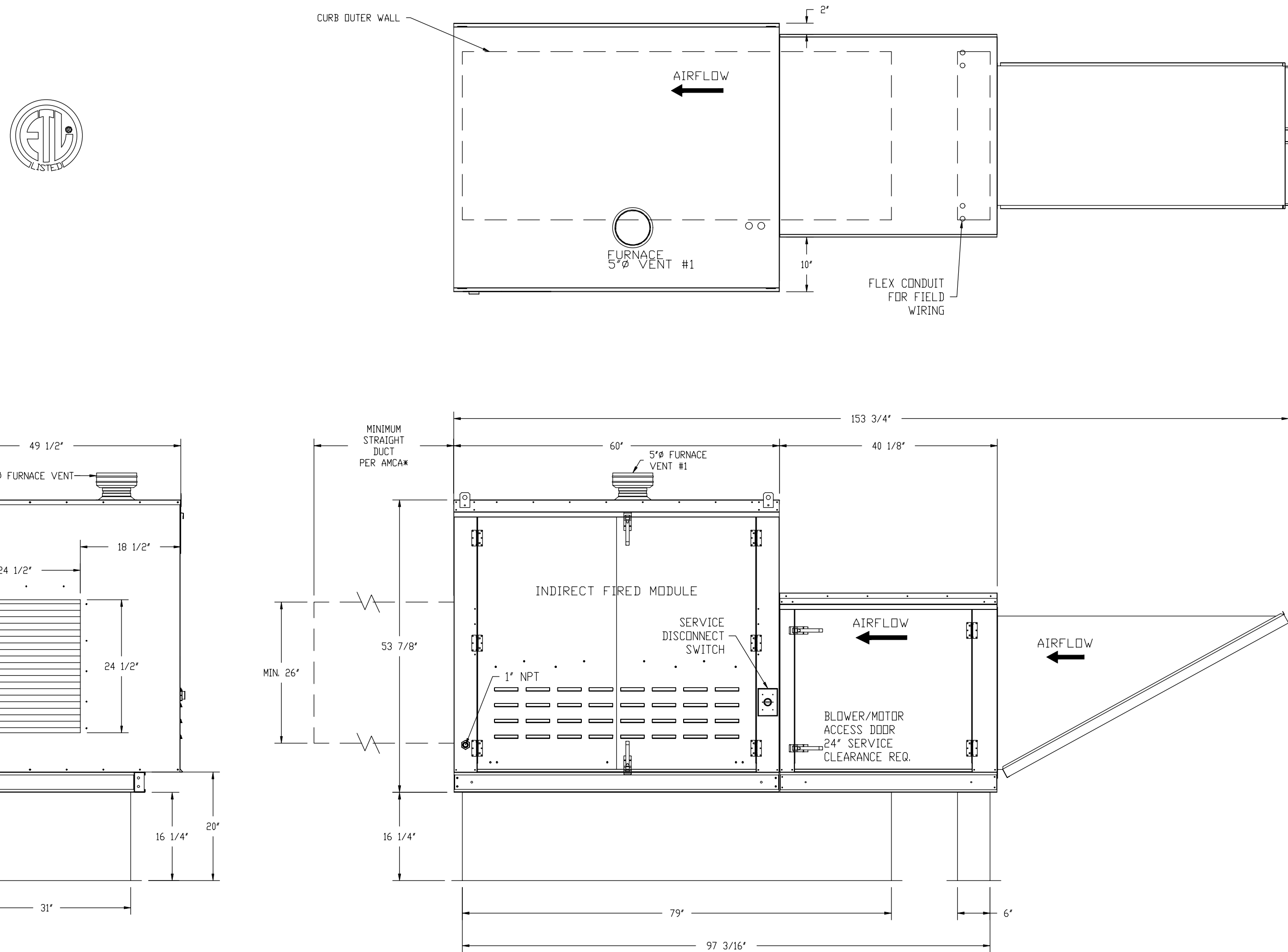
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***NOTE:** SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF TURNING VANE DISCHARGE AS OUTLINED IN AMCA PRACTICE 208. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANE DISCHARGE AND RADIUS THROAT AND RADIUS BACK. ELBOWS MUST NOT BE USED ANY TRANSMISSION AND TURNING IN THE DUCTWORK WILL CAUSE SYSTEM EFFICIENCY EFFECT WILL PRACTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON TURN TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFLUENTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.

SUGGESTED STRAIGHT DUCT SIZE IS 26" x 26"

SUPPLY SIDE HEATER INFORMATION

WINTER TEMPERATURE = 15°F. TEMP. RISE = 60°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY
OUTPUT BTUs AT ALTITUDE OF 0.0 ft. = 252710
INPUT BTUs AT ALTITUDE OF 0.0 ft. = 315888
OUTPUT BTUs AT ALTITUDE OF 16 ft. = 252564
INPUT BTUs AT ALTITUDE OF 16 ft. = 315705



CERTIFICATE



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STEVEN LEONE	21A01170
STEVEN G. SIEGEL	21A01564
SPIEGLER ARCHITECTURAL GROUP, INC.	21AC00063

SEAL:

CONSULTANTS

BID SET 09-24-20

PROJECT:

KITCHEN AND OFFICE
RENOVATIONS AT
BRIGANTINE
CONSOLIDATED
SCHOOL

301 EAST EVANS BLVD.
BRIGANTINE, NJ 08203

FOR

BRIGANTINE BOARD
OF EDUCATION

301 EAST EVANS BLVD.,
BRIGANTINE, NJ 08203

FOR CODE REVIEW: DD/MM/YY

REVISIONS:

	REVISION NAME	DATE
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FOR BID: 09/24/2011

DRAWING TITLE

FOOD SERVICE
EXHAUST HOOD
SCHEDULE & NOTES
CONTINUED

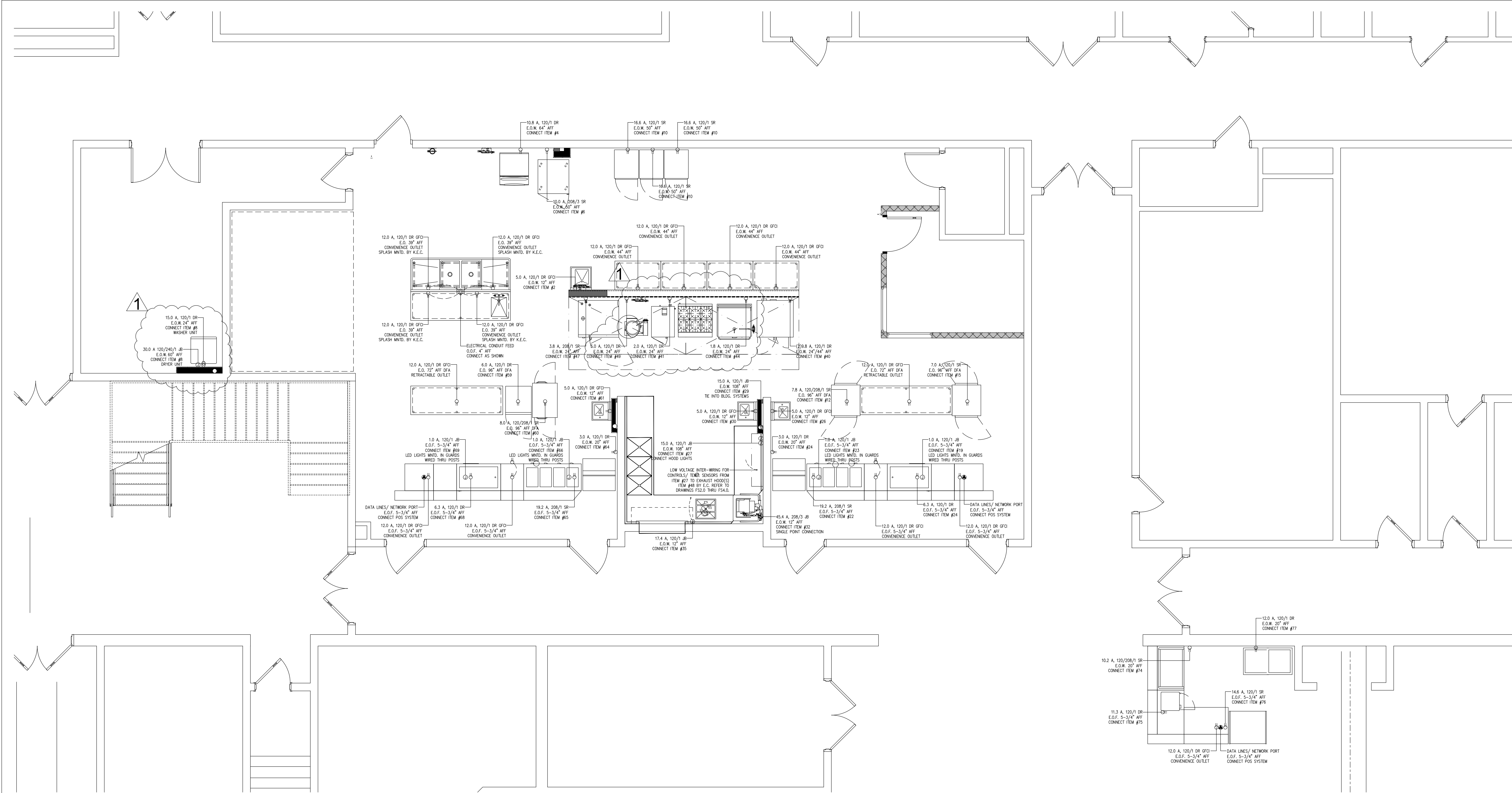
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AGENCY NUMBER:
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DRAWING

FS5.0



FOOD SERVICE ELECTRICAL CONNECTIONS PLAN
SCALE: 1/4"=1'-0"

ELECTRICAL LEGEND	
JB	JUNCTION BOX
DR	DUPLEX RECEPTACLE
SR	SIMPLEX RECEPTACLE
E.O.W.	ELECTRICAL OUT OF WALL
E.O.F.	ELECTRICAL OUT OF FLOOR
D.F.A.	DOWN FROM ABOVE
AFF	ABOVE FINISHED FLOOR
BTC	BRANCH TO CONNECTION
A	AMPS
HP	HORSEPOWER
kW	KILOWATT
E.C.	ELECTRICAL CONTRACTOR

ELECTRICAL NOTES:

1) ALL WALL OUTLETS ARE FROM AFF TO BOTTOM OF BOX.

2) E.C. TO CHECK ALL CONDITIONS AND VERIFY ALL DIMENSIONS PRIOR TO WORK.

ELECTRICAL CONTRACTOR NOTES:

- ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED CONVENIENCE RECEPTACLES AS PER LOCAL CODE HAVING JURISDICTION AND PER OWNERS REQUESTS/ NEEDS.
- ELECTRICAL CONTRACTOR TO VERIFY IF CONVENIENCE RECEPTACLES ARE TO BE GFCI PER LOCAL CODE HAVING JURISDICTION.
- MOUNTING HEIGHTS GIVEN ARE TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
- FLOOR MOUNTED DEVICES ARE TO BE MOUNTED WITH A 5 3/4" MAXIMUM HEIGHT TO TOP OF BOX.
- ALL RECEPTACLES, J-BOXES, SWITCHES, INTER-WIRING, DISCONNECT SWITCHES, MOTOR STARTERS AND/OR TRANSFORMERS OR ANY OTHER ELECTRICAL DEVICE REQUIRED TO MAKE EQUIPMENT OPERATIONAL IS TO BE SUPPLIED BY ELECTRICAL CONTRACTOR AND IS NOT PART OF THE KITCHEN EQUIPMENT CONTRACTORS SCOPE OF WORK UNLESS OTHERWISE SPECIFIED.
- ALL POWER CONNECTION POINTS UNDER EXHAUST HOODS ARE TO BE SHUT DOWN UPON FIRE SUPPRESSION SYSTEM ACTIVATION PER NFPA 96. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL SHUNT-TRIP BREAKERS FOR THESE CIRCUITS.
- ELECTRICAL CONTRACTOR TO VERIFY, FURNISH AND INSTALL REQUIRED ELECTRICAL ROUGH-INS FOR ALL EQUIPMENT BEING SUPPLIED.

CODE REVIEW:

CERTIFICATE:



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SPIEGLE ARCHITECTURAL GROUP, INC. 21AC00063000

SEAL:

CONSULTANTS:

BID SET 09-24-20

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REVISIONS:

REVISION NAME	DATE
1 ADDENDUM #1	10/09/20

FOR BID:

09/24/20

DRAWING TITLE:

FOOD SERVICE
ELECTRICAL
CONNECTIONS PLAN
NOTES

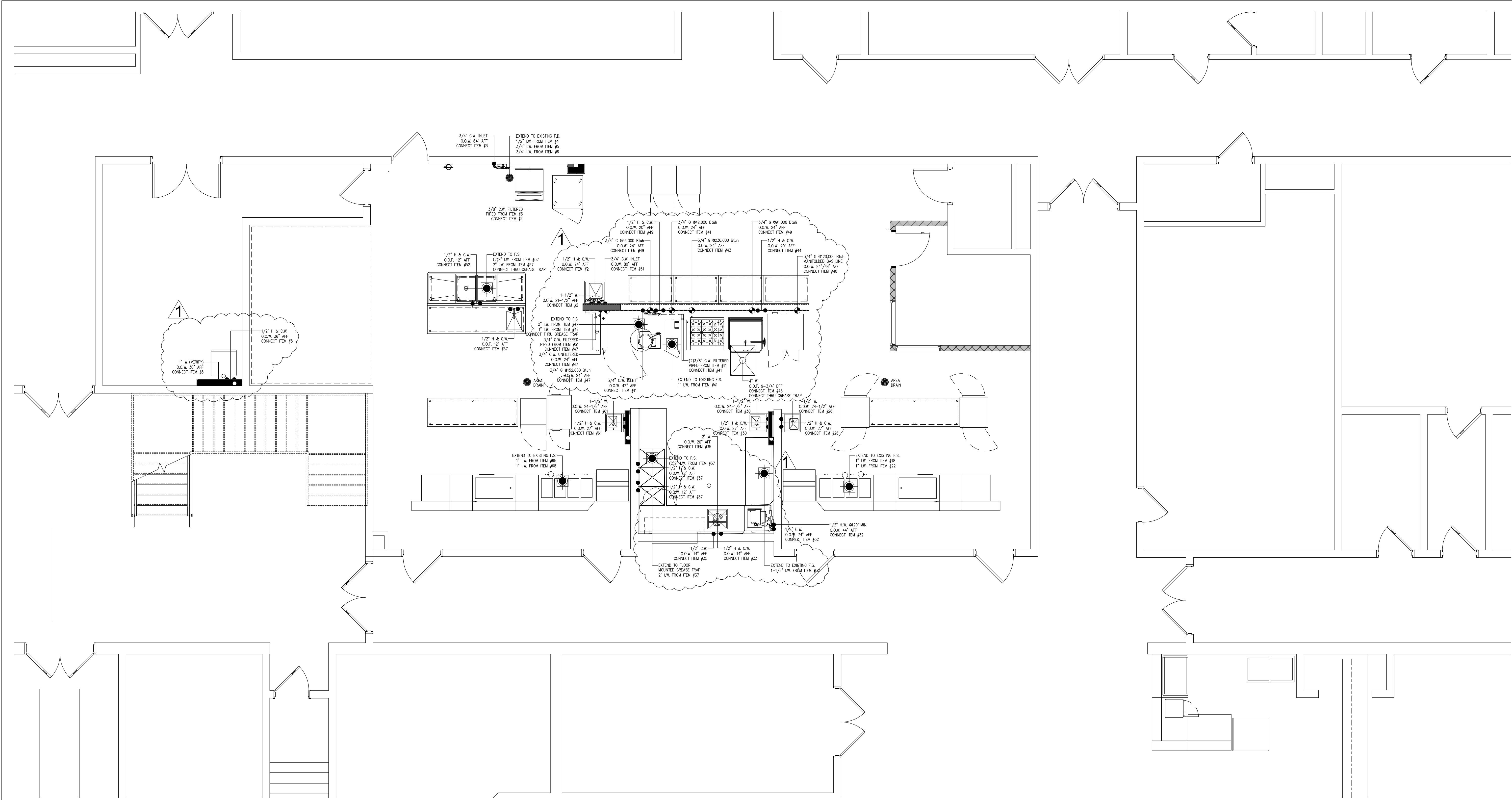
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DRAWING
NUMBER:

FS6.0



FOOD SERVICE PLUMBING CONNECTIONS PLAN
SCALE: 1/4"=1'-0"

PLUMBING LEGEND	
H.W.	HOT WATER
C.W.	COLD WATER
W	DIRECT WASTE
I.W.	INDIRECT WASTE
F.D.	FLOOR DRAIN
F.S.	FLOOR SINK
G	GAS
O.O.W.	OUT OF WALL
O.O.F.	OUT OF FLOOR
AFF	ABOVE FINISHED FLOOR
BTC	BRANCH TO CONNECTION
P.C.	PLUMBING CONTRACTOR

PLUMBING NOTES:

- 1) P.C. TO PROVIDE HUB DRAINS FOR ALL INDIRECT WASTE LINES AND RETAIN AIR GAPS AS REQUIRED.
- 2) P.C. TO CHECK ALL CONDITIONS AND VERIFY ALL DIMENSIONS PRIOR TO WORK.

PLUMBING CONTRACTOR NOTES:

1. SHUT-OFF VALVES ON THE INLET SIDE OF THE COLD AND HOT WATER LINES SERVING EACH PIECE OF EQUIPMENT ARE TO BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR.
2. IF WATER PRESSURE AT THE EQUIPMENT AREA EXCEEDS 50 POUNDS FLOW PRESSURE OWNER OR HIS CONTRACTOR MUST INSTALL A PRESSURE REDUCING VALVE ON BOTH THE MAIN HOT WATER AND COLD WATER SUPPLY LINES SERVICING THE AREA.
3. FLOW PRESSURE TO DISHWASHER (OR ITS AUXILIARY HOT WATER BOOSTER HEATER IF ONE IS USED) MUST NOT EXCEED 25 POUNDS.
4. OWNER OR HIS CONTRACTOR MUST PROVIDE AN ADEQUATE SUPPLY OF 110° F HOT WATER, MINIMUM, TO ALL COOKING EQUIPMENT, DISHWASHER, BOOSTER HEATER, WORK SINKS, HAND SINKS, ETC...
5. USING PVC PIPING FOR DRAIN LINES FROM EQUIPMENT THAT DISCHARGES HOT WATER SUCH AS STEAMERS & DISHWASHERS MAY CAUSE THE P.V.C. PIPING TO SOFTEN OR CRACK. IT IS RECOMMENDED THAT METAL (COPPER OR GALVANIZED) PIPING BE USED.
6. CHECK WITH LOCAL CODES TO DETERMINE WHAT EQUIPMENT IS TO BE PIPED THROUGH A GREASE TRAP. EQUIPMENT NOTED ON FOOD SERVICE CONTRACT DRAWINGS ARE REQUIRED/ RECOMMENDED AND SHOULD BE VERIFIED FOR COMPLIANCE BY THE PLUMBING CONTRACTOR (GREASE TRAP(S) TO BE PROVIDED BY PLUMBING CONTRACTOR).
7. PLUMBING CONTRACTOR TO INSTALL MECHANICAL GAS SHUT-OFF VALVE IN GAS MAIN FEEDING ALL COOKING EQUIPMENT PRIOR TO ANY TEES OR GAS LOOP FEEDING COOKING EQUIPMENT. MECHANICAL SHUT-OFF VALVE IS RECOMMENDED TO BE INSTALLED IN ACCESSIBLE CEILING SPACE OR BELOW FLOOR WITH ACCESS TO VALVE.
8. PLUMBING CONTRACTOR TO PROVIDE FLOOR DRAINS AND/OR FLOOR SINKS AS PER LOCAL CODE HAVING JURISDICTION AND OWNERS REQUEST.
9. PLUMBING CONTRACTOR IS TO REVIEW ALL CATALOG DATA PROVIDED AS PART OF THE FOOD SERVICE CONTRACT DOCUMENTS TO ESTABLISH THE NECESSARY GAS PRESSURE TO THE KITCHEN EQUIPMENT. IF GAS PRESSURE TO KITCHEN EQUIPMENT IS HIGHER THAN REQUIRED, A PRESSURE REGULATOR IS TO BE PROVIDED BY THE PLUMBING CONTRACTOR OR BY THE GAS COMPANY. THE GAS PRESSURE REGULATOR MUST BE INSTALLED PRIOR TO THE GAS FEEDING ANY KITCHEN EQUIPMENT. EXCESSIVE GAS PRESSURE TO THE EQUIPMENT CAN DAMAGE THE EQUIPMENT AND CAUSE PERSONAL INJURY.
10. PLUMBING CONTRACTOR TO VERIFY, FURNISH AND INSTALL REQUIRED PLUMBING ROUGH-INS FOR ALL EQUIPMENT BEING SUPPLIED.

CODE REVIEW:

CERTIFICATE:



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STEVEN G. SIEDEL 2 / ADO 5/6/00
SPIEZLE ARCHITECTURAL GROUP, INC. 2 / ADO 06/30/00

SEAL:

CONSULTANTS:

BID SET 09-24-20

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REVISIONS:	
REVISION NAME	DATE
1 ADDENDUM #1	10/05/20

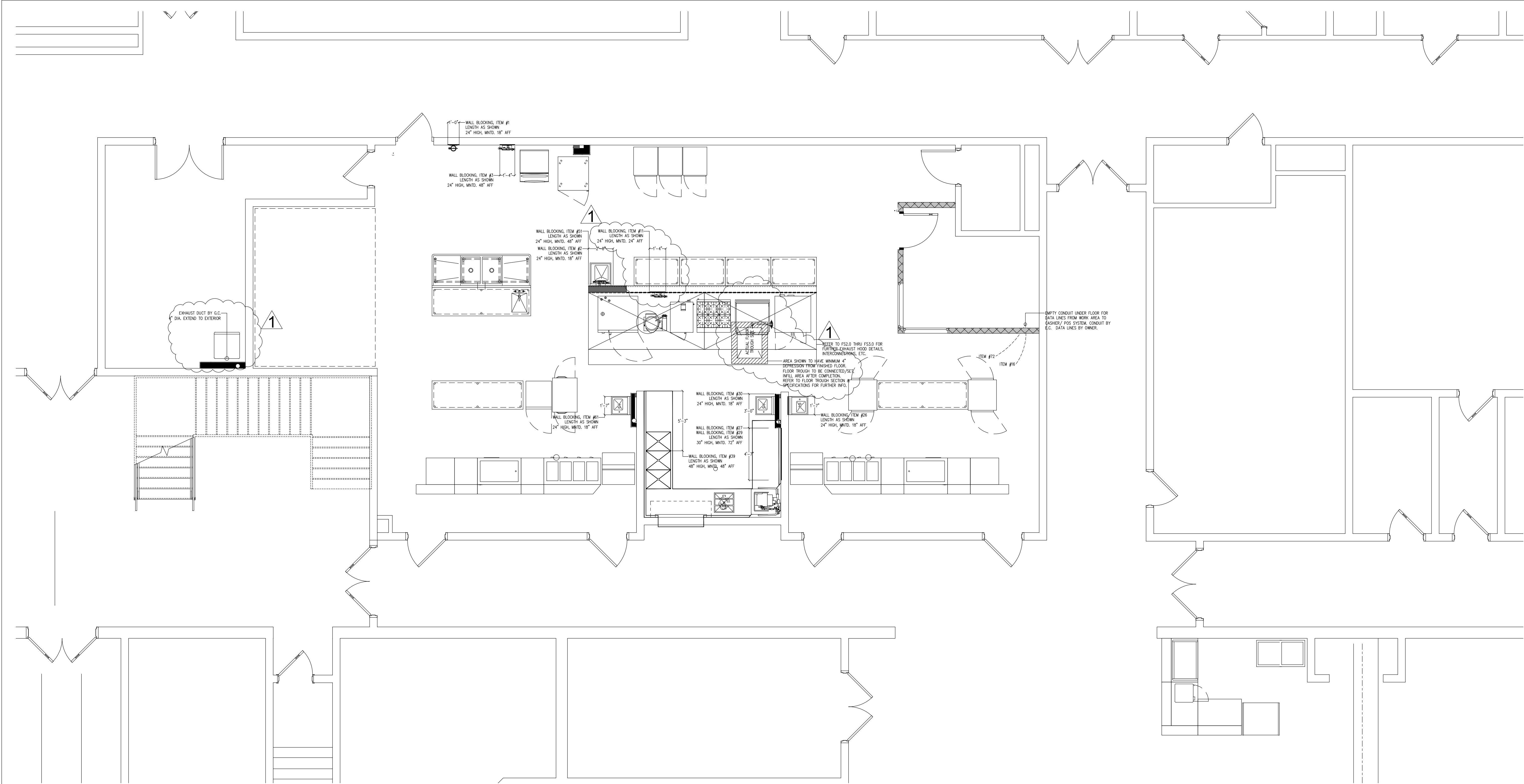
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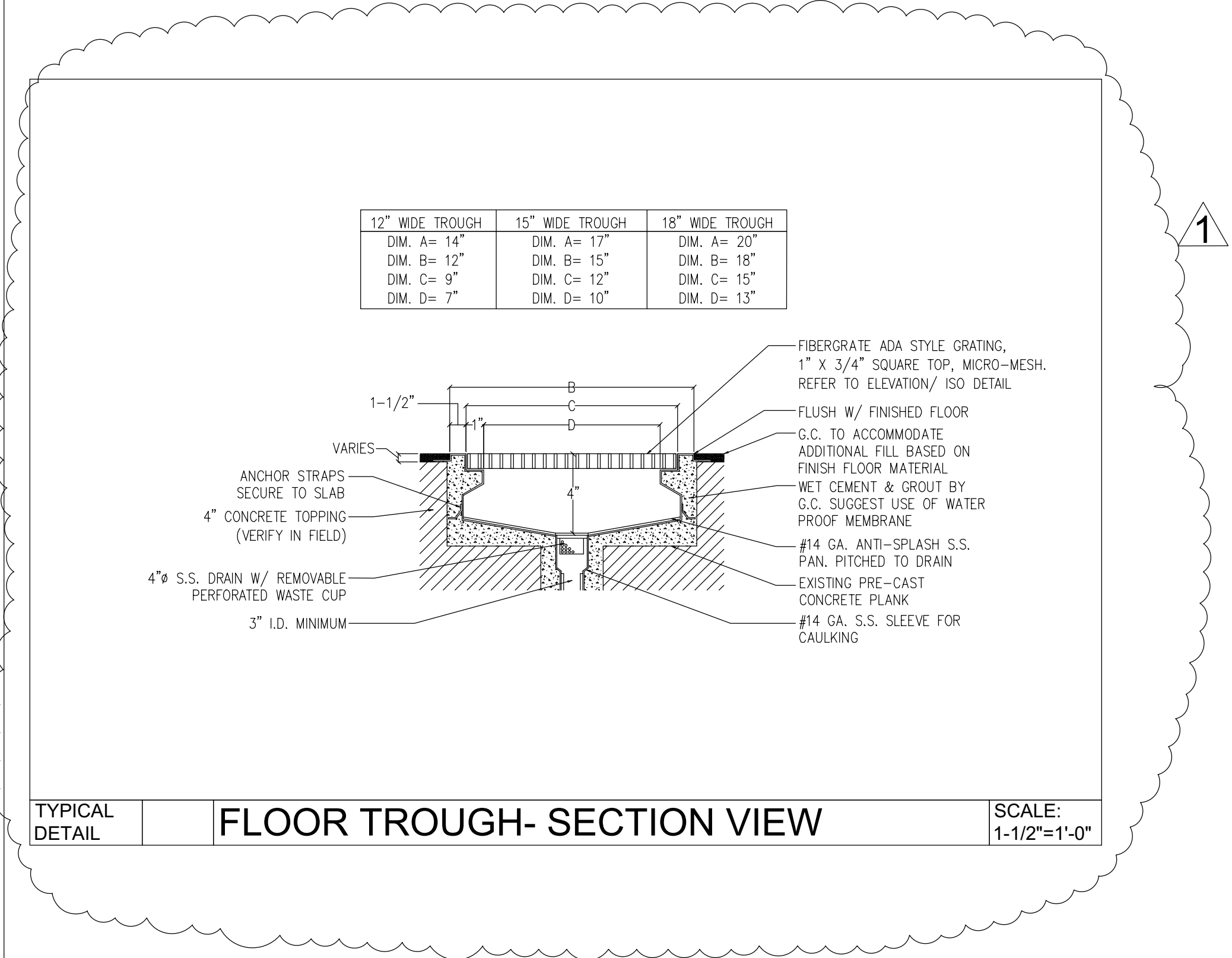
FOOD SERVICE
PLUMBING
CONNECTIONS PLAN
NOTES

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FOOD SERVICE SPECIAL CONDITIONS PLAN
SCALE: 1/4"=1'-0"



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SPIEZLE ARCHITECTURAL GROUP, INC. 21A000063000

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REVISION NAME	DATE
1 ADDENDUM #1	10/05/20

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FOOD SERVICE
SPECIAL CONDITIONS
PLAN & NOTES

COMMISSION NUMBER:
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01-0570 300-21-1000
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