



## CANNONDESIGN

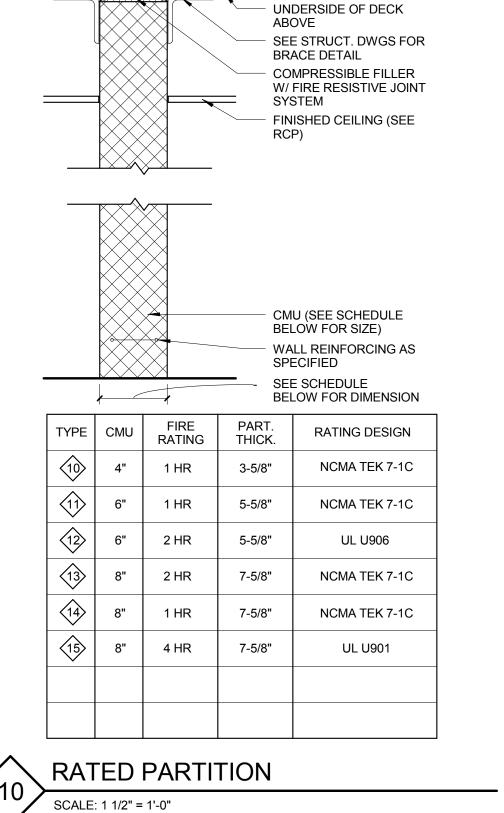
225 North Michigan Avenue, Suite 1100 Chicago, Illinois 60601 T: 312.332.9600 F: 312.332.9601

PROFESSIONAL DESIGN FIRM LICENSE NUMBER 184.005683

S2O CONSULTANTS, INC
Kitchen Consultants

13 Winding Branch Rd Hawthorn Woods IL 60047 224-717-1999

ARC DESIGN RESOURCES INC.
Civil Consultants
5291 Zenith Parkway
Loves Park IL 61111
(815) 484-4300



UNDERSIDE OF DECK

BRACE DETAIL

SEE STRUCT. DWGS FOR

COMPRESSIBLE FILLER W/

FINISHED CEILING (SEE RCP)

ACOUSTICAL SEALANT

- CMU (SEE SCHEDULE BELOW FOR SIZE)

SPECIFIED

THICK.

3-5/8"

5-5/8"

7-5/8"

9-5/8"

11-5/8"

FIRE RATING

NON-RATED PARTITION

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

TYPE CMU

SEE SCHEDULE

WALL REINFORCING AS

BELOW FOR DIMENSION

RATING DESIGN

N/A

N/A

N/A

N/A

N/A

1 ISSUED FOR BID 12/11/2015

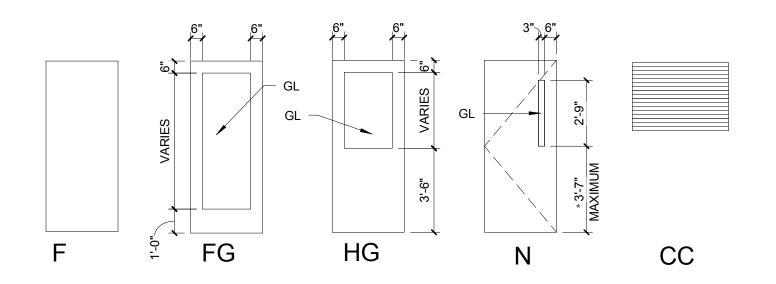
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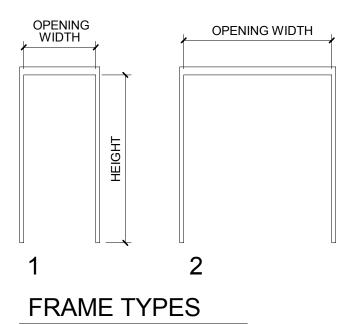
PARTITION TYPES

Project No.: 004645.05 Checked by: Checker

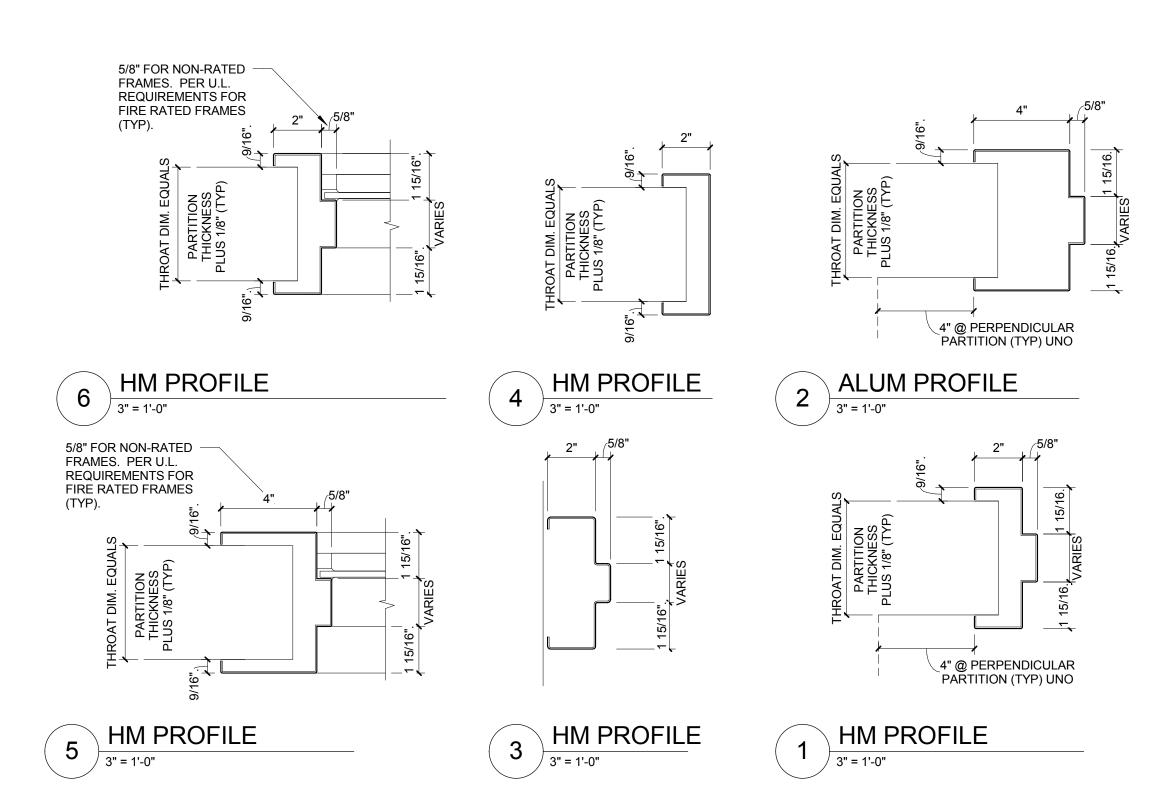
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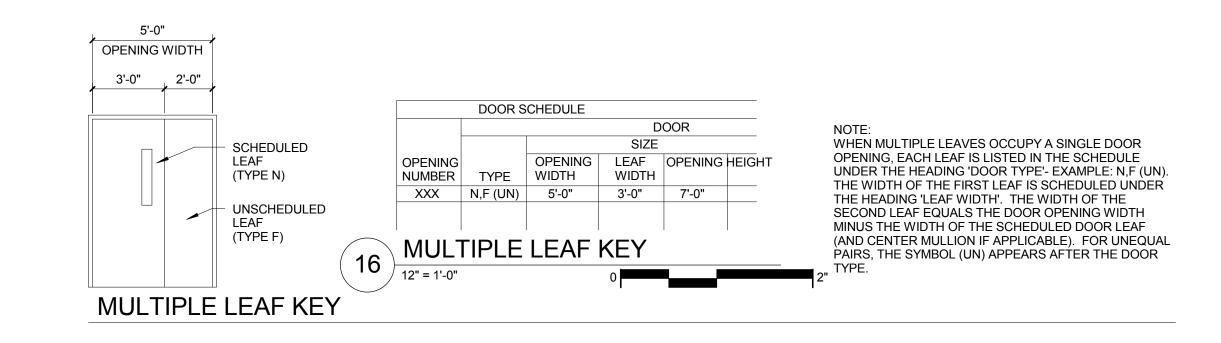


DOOR TYPES









							L	DOOR	SCHI	EDULE	<u>-</u>					
				OOR				FRAME								
			SIZE								DETAILS	1				
OPENING NUMBER	TYPE	OPENING WIDTH	LEAF WIDTH	OPENING HEIGHT	тнк	MATL	GLASS	TYPE	MATL	HEAD	JAMB	SILL	GLASS	FIRE RATING (MIN.)	HDW SET REMARKS	
01-C7-A	N (PR)	6'-0"	3'-0"	7'-0"	1 3/4"	WD	G2	1	HM	2/A1003	1/A0801	-	-	90	14	
)1-C7-B	FG,FG	6'-0"	3'-0"	7'-2"	1 3/4"	ALUM	G4	SEE ELEV	ALUM	8/A0452	2/A4210	-	G4	-	7, 13	
003-A	F	3'-0"		7'-0"	1 3/4"	НМ	-	1	НМ	3/A1003	3/A1003	-	-	-	7, 10	
004-A	F	3'-0"		7'-0"	1 3/4"	HM	_	1	НМ	3/A1003	3/A1003	-	-	-	7	
101-A	FG	3'-2"		7'-2"	1 3/4"	ALUM	G3	SEE ELEV	ALUM	_	_	_	G3	_	7	
113B	CC	13'-0"		5'-5 1/8"		ALUM	-	_	ST	_	_	-	-	-	11	
115-A	FG	3'-2"		7'-2"	1 3/4"	ALUM	G3	SEE ELEV	ALUM	-	-	-	G3	-	7, 13	
115-B	FG	3'-2"		7'-2"	1 3/4"	ALUM	G3	SEE ELEV	ALUM	-	-	-	G3	-	7	
116-A	FG	6'-0"	3'-0"	7'-0"	1 3/4"	ALUM	G3	SEE ELEV	ALUM	_	_	_	G3		7, 13	
128-A	F	3'-0"		7'-0"	1 3/4"	HM	-	1	HM	3/A1003	3/A1003	_	-	_	7, 10	
142-A	FG,FG	6'-0"	3'-0"	7'-0"	1 3/4"	ALUM	G4	SEE ELEV	ALUM	7/A0410	10/A0410	_	G4		7, 8, 10, 1	2
142-B	FG,FG	6'-0"	3'-0"	7'-0"	1 3/4"	ALUM	G4	SEE ELEV	ALUM	7/A0410	10/A0410	_	G4		7, 12	_
142-D	FG,FG	6'-0"	3'-0"	6'-10"	1 3/4"	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	_	EXIST	EXIST	8	
142-C 142-D	FG,FG	6'-0"	3'-0"	6'-10"	1 3/4"	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	_	EXIST	EXIST		
145	F	3'-0"		7'-0"	1 3/4"	WD	-	1	HM	2/A1003	1/A1003	_	-	-		
155-A	FG	3'-2"		7'-0"	1 3/4"	ALUM	G3	1	ALUM	217(1000	1/A1003	_	G3	<u>-</u>	7	
155-A 155-B	FG,FG	6'-0"	3'-0"	7'-2"	1 3/4"	ALUM	G3	1	ALUM	-	-	_	G3	<u> </u>	7, 13	
156-A	FG	3'-2"	3-0	7 -2 7'-2"	1 3/4"	ALUM	G3	SEE ELEV	ALUM	-	-	-	G3	<u> </u>	7, 13	
	FG	3'-2"		7'-2"	1 3/4"	ALUM		SEE ELEV		-			G3		7, 13	
156-B	FG			-	-		G3		ALUM	-	4/00424	4/00451	-	-	7	
162-A	FG F	3'-0"		7'-2"	1 3/4"	ALUM	G3	SEE ELEV	ALUM	-	4/A0421	4/A0451	G3	-	· ·	
168	•	3'-0"		7'-0"	1 3/4"	WD	-	·	HM	2/A1003	1/A1003	-		20	15	
169	F	3'-6"		7'-0"	1 3/4"	HM	-	1	HM	2/A1003	1/A1003	-	-	20	13	
170	F	3'-0"		7'-0"	1 3/4"	HM	-	1	HM	2/A1003	1/A1003	-	-	-	10	
171-A	N	3'-0"		7'-0"	1 3/4"	WD	G2	1	HM	2/A1003	1/A1003	-	-	-	3, 13	
172	N	3'-0"		7'-0"	1 3/4"	WD	G1	1	HM	2/A1003	1/A1003	-	-	20	13	
173	F	3'-0"		7'-0"	1 3/4"	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	-	EXIST	EXIST	13	
173-A	<u>F</u>	3'-0"		7'-0"	1 3/4"	WD	-	1	HM	2/A1003	1/A1003	-	-	-	10	
174-A	F	3'-0"		7'-0"	1 3/4"	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	-	EXIST	EXIST	13	
175	F	3'-0"		7'-0"	1 3/4"	WD	-	1	HM	2/A1003	1/A1003	-	-	-		
176	F	3'-0"		7'-0"	1 3/4"	WD	-	1	HM	2/A1003	1/A1003	-	-	-		
177-A	N	3'-0"	01.011	7'-0"	1 3/4"	WD	G1	1 = 1	HM	2/A1003	1/A1003	-	-	-		
177-B	F,F	5'-0"	2'-6"	7'-0"	1 3/4"	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	-	EXIST	EXIST	16	
178	N	3'-0"		7'-0"	1 3/4"	WD	G1	1	HM	2/A1003	1/A1003	-	-	-		
179	N	3'-0"		7'-0"	1 3/4"	WD	G1	1	HM	2/A1003	1/A1003	-	-	-		
80	F	3'-0"		7'-0"	1 3/4"	WD	-	1	HM	2/A1003	1/A1003	-	-	90		
181	F	3'-0"		7'-0"	1 3/4"	WD	-	1	HM	2/A1003	1/A1003	-	-	90		
182	F	4'-0"		7'-0"	1 3/4"	WD	-	1	HM	2/A1003	1/A1003	-	-	-		
83-A	HG	3'-0"		7'-0"	1 3/4"	WD	G1	3	НМ	2/A1003	1/A1003	-		-	13	
184-A	N,N	6'-0"	3'-0"	7'-0"	1 3/4"	WD	G1	1	НМ	2/A1003	1/A1003	-	-	20	13	
184-B	F,F	6'-0"	3'-0"	7'-0"	1 3/4"	НМ	-	1	НМ	1A/A0452	3/A0421	1/A0452	-	-	7	
184-C	F,F	6'-0"	3'-0"	7'-0"	1 3/4"	HM	-	1	HM	1A/A0452	3/A0421	1/A0452	-	-	7	

		BC	KKOW	/ED_LI	GHT_	_SCHE	DULE
			FRAME			FIRE	
			DETAILS			RATING	
TYPE	MATL	HEAD	JAMB	SILL	GLASS	(MIN.)	REMARKS
B1	НМ	5/A01003	6/A1003	6/A1003	G1	-	
1	B1		B1 HM 5/A01003	TYPE MATL HEAD JAMB	TYPE MATL HEAD JAMB SILL	TYPE MATL HEAD JAMB SILL GLASS	TYPE MATL HEAD JAMB SILL GLASS (MIN.)

#### **GENERAL NOTES - OPENING**

1. SAFETY GLAZING MUST COMPLY WITH LABELING AS PER IBC 2003, 2406.2 (TYPICAL). 2. SYLES & RAIL SIZES ON WOOD DOORS MIGHT VARY TO THE STANDARD OF EACH MANUFACTURER. 3. FRAME EXTENSIONS ADJUSTING TO WALL DEPTH ARE TYPICAL - REFER TO DOOR DETAILS.

4. FOR HARDWARE GROUP SPECIFICATIONS REFER TO THE PROJECT MANUAL UNDER DOOR HARDWARE SPECS.

5. DIMENSION ARE NOMINAL - MANUFACTURER PROVING THE DOORS TO DETERMINE THE ROUGH EXCEPT THE OPENING IN CONCRETE WALLS THAT HAVE BEEN ALREADY SPECIFIED.

6. THICKNESS OF GLAZING WITHIN DOORS BY DOOR MANUFACTURER STANDARDS.

7. GLAZING AS NOTED ON DOOR ELEVATIONS.

8. DOORS TO OPERATE AS SHOWN ON THE EXTERIOR BUILDING ELEVATIONS, ENLARGED UNIT PLANS & OVERALL PLANS.

9. TEMPERED GLAZING WHERE REQUIRED BY CODE (TYPICAL).

10. GENERAL CONTRACTOR TO COORDINATE ALL TRADES INVOLVED.

11. ELECTRICAL DEVICES SUCH AS MAG LOCKS, CARD READERS, AND ALARM SYSTEMS BEING PART OF THE DOOR FUNCTION ARE INCLUDED AS PART OF THE ELECTRICAL PLANS AND THE HARDWARE GROUPS.

#### GLAZING

G1 1/4" CLEAR TEMPERED GLASS (SAFETY RATED)

G2 FIRE RESISTIVE GLAZING (SAFETY RATED) G3 1" INSULATED GLASS UNIT (SAFETY RATED)

G4 1" INSULATED LAMINATED GLASS UNIT (SECURI**TS**LAZING)

#### **REMARKS** 1. NEW OPENING IN EXISTING MASONRY PARTITION

3. PROVIDE 4'-0" H STAINLESS STEEL KICKPLATE ON KITCHEN SIDE, PER

DOOR AND FRAME TO BE PAINTED TO MATCH ADJACENT WALL - REFER TO FINISH PLANS

5. NEW DOOR AND FRAME IN EXISTING MASONRY OPENING - VERIFY SIZE OF EXISTING OPENING

6. ACOUSTICAL SOUND SEALS

7. EXTERIOR DOOR

8. ACCESSIBLE ENTRY WITH PUSH PLATE AND DOOR OPERATOR

9. SECURITY ACCESS DOOR 10. CARD READER - REFER TO DETAILS 1 & 2 ON E0741 FOR PROVISIONS

11. COILING COUNTER SHUTTER 12. SECURITY GLAZING

13. DOOR AND FRAME TO BE PREPPED FOR FUTURE CARD READER LOCATED ON FRAME - REFER TO ELECTRICAL FOR PROVISIONS

14. MAGNETIC HOLD OPENS

15. PROVIDE 3/4" DOOR UNDERCUT

16. MECHANICALLY SECURE DOOR PANE TO MAKE INNACTIVE. SEE SHEET A0101.E FOR LOCATION.

ROCKFORD PUBLIC SCHOOLS RIVERDAHL ELEMENTARY SCHOOL - ADDITION & **RENOVATION** 

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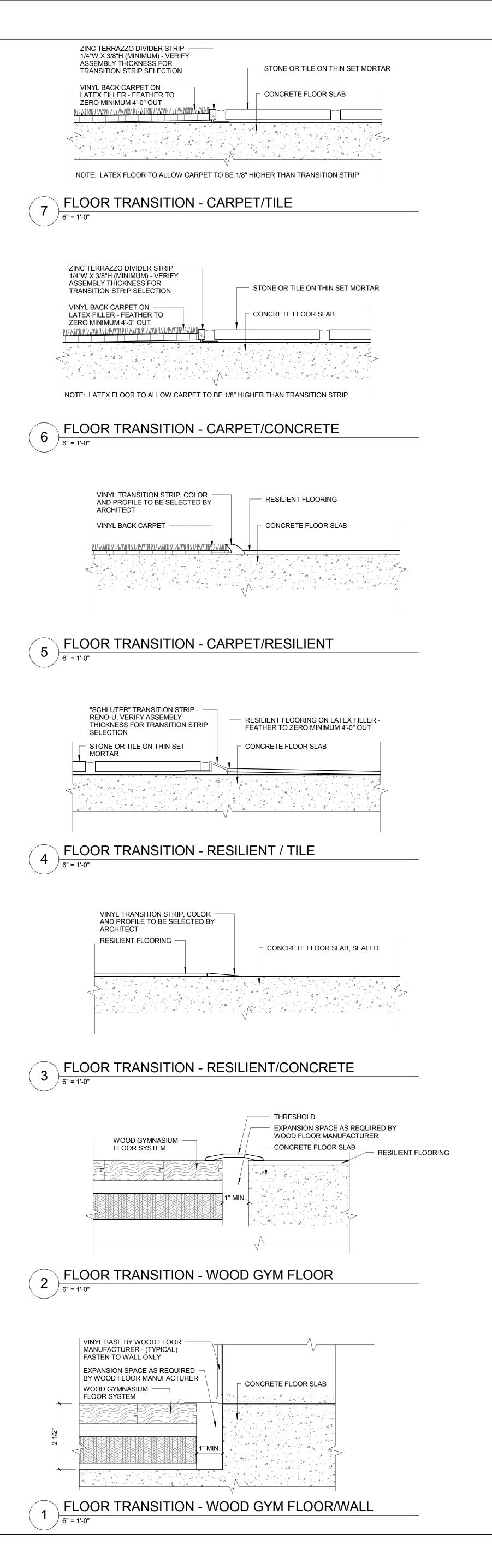
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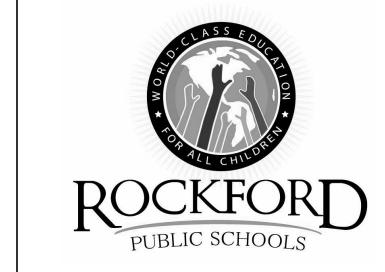
Date

**DOORS & BORROWED LIGHTS** 

Project No.: 004645.05



$\preceq$	FLOOR	FINISH	FLOOR FINISH TRANSITION	4	EXTENT OF WALL	
	BASE F WALL F		CEILING FINISH		AND BASE FINISH MATERIAL DIRECTION	
	TYPE	CODE	MATERIAL	MANUFACTURER	DESCRIPTION	COMMENTS / LOCATION
		ACT-1	ACOUSTIC CEILING TILE	USG	TILE: RADAR CLIMA PLUS PROD.#: 22523	GENERAL
CEILING FINISH	ILING SYSTEMS		AND GRID		HIGH-CAC, HIGH-NRC SIZE: 2' X 2' GRID: DXL 15/16" EDGE: TEGULAR EXPOSED TEE SYSTEM FINISH: WHITE  TILE: HEALTH ZONE OPTIMA PROD.#:	KITCHEN / SERVING
$\stackrel{\circ}{>}$	LAY-IN CEILING	ACT-2	ACOUSTIC CEILING TILE AND GRID	ARMSTRONG	SIZE: 2' x 2' x 3/4"  FINISH: WHITE  EDGE: SQUARE  CLASS: A, USDA APPROVED  FIBERGLASS  NRC: .95  GRID: 15/16"  MATERIAL:  FIBERGLASS	NITOTIEN DENVINO
	ETR	Е	EXISTING TO REMAIN			
-	РАТСН	P	PATCH RUBBER BASE		AS NEEDED TO MATCH EXISTING ADJACENT FINISH IN PROFILE, COLOR, SIZE AND HEIGHT. EXISTING CONDITION TO BE V.I.F.	
BASE FINISH	BASE	CTB-1	CERAMIC MOSAIC TILE BASE	DALTILE	STYLE: TO MATCH CMT-1 COLOR: TO MATCH CMT-1 OVERALL BASE CONSISTING OF: 2"W X 1"H COVE PROFILE WITH (2) 2" X 2" CERAMIC MOSAIC TILE STACKED ABOVE. TOP COURSE OF TILE TO BE SURFACE BULLNOSE PROFILE.	TOILET ROOMS
	TILE	QT-1	QUARRY TILE BASE	DALTILE	STYLE: COVE BASE, ROUND TOP COLOR: T.B.D. SIZE: 6" X 6"	KITCHEN / SERVING
ļ	BASE	VB-1	VINYL COVE BASE	JOHNSONITE	COLOR: T.B.D. (PRICE GROUP B) SIZE: COVE, 6" HIGH	
	RESILIENT BASE	ATH	ATHLETIC VENTED BASE	PER SPEC	TYPE: BY ATHLETIC WOOD FLOORING MANUFACTURER COLOR: T.B.D. SIZE: PER SPEC	GYM
	PET	CPT-1	CARPET TILE	BY OWNER	PATTERN: TO BE DETERMINED COLOR: TO BE DETERMINED SIZE: 24" X 24" INSTALL METHOD: TO BE DETERMINED	OWNER FURNISHED CONTRACTOR INSTALLED (INCLUDING ADHESIVE)
	CARPET	CPT-2	CARPET TILE - WALK OFF	BY OWNER	COLLECTION: TO BE DETERMINED PATTERN: TO BE DETERMINED COLOR: TO BE DETERMINED	VESTIBULE / CORRIDOR OWNER FURNISHED CONTRACTOR INSTALLED (INCLUDING ADHESIVE)
	ETR	Е	EXISTING TO REMAIN			
-	РАТСН	P CMT-1	PATCH FLOOR FINISH  CERAMIC MOSAIC FLOOR	VARIES DALTILE	AS NEEDED TO MATCH EXISTING ADJACENT FINISH IN PATTERN, COLOR, SIZE AND HEIGHT. EXISTING CONDITION TO BE V.I.F.	TOU
		CMT-1	TILE  CERAMIC MOSAIC FLOOR  CERAMIC MOSAIC FLOOR	DALTILE	STYLE: KEYSTONES COLOR: MARBLE SIZE: 2" X 2"	TOILET ROOMS: FLOOR PATTERN BY ARCHITECT
FLOOR FINISH	TILE	- OIVI I -Z	TILE	DALTILE	STYLE: KEYSTONES MULTIPLE COLOR CONSISTING OF: 60%- MARBLE D325 40%- ELEMENTAL TAN D166 SIZE: 2" X 2"	TOILET ROOMS: FLOOR PATTERN BY ARCHITECT
FLOOR F		QT-1	QUARRY FLOOR TILE	DALTILE	STYLE: QUARRY TILE COLOR: T.B.D.	KITCHEN / SERVING
$\bar{\bigcirc}$		RFT-1	RESILIENT FLOOR TILE	UPOFLOOR	SIZE: 6" X 6"  PRODUCT: QUARTZ MOSAIC COLLECTION SIZE: 24" X 24" COLORS: 9353 & 9351	NURSE: FLOOR PATTERN E ARCHITECT
	IENT TILE	RFT-2	RESILIENT FLOOR TILE	UPOFLOOR	PRODUCT: QUARTZ MOSAIC COLLECTION SIZE: 24" X 24" COLORS: TO BE DETERMINED	
	RESILIEN	RB-1 RESILIENT FLOOR: RUBBER TREADS WITH INTEGRATED RISER		PRODUCT: HAMMERED WITH VISUAL IMPAIRED INSERT (VIHTR) COLOR: TBD	STAIR TREADS & RISERS & INTERMEDIATE LANDINGS	
-	SEALER	SC WD-1	SEALED CONCRETE  WOOD ATHLETIC FLOOR	PER SPEC	COLOR: CLEAR NON-SLIP FINISH  PRODUCT: SCISSOR-LOC II, WITH AIR FLOW SYSTEM	GYM
	WOOD			AACER FLOOR COMPANY	SIZE: SEE SPEC COLOR: SEE SPEC BASE: VINYL VENTED BASE BY WOOD FLOOR MANUFACTURER	GIN
	ETR	E	EXISTING TO REMAIN			
	РАТСН	Р	PATCH WALL FINISH		AS NEEDED TO MATCH EXISTING ADJACENT FINISH IN PATTERN, COLOR, SIZE AND HEIGHT. EXISTING CONDITION TO BE V.I.F.	
_	ш.	PT-1	PAINT	SHERWIN WILLIAMS	COLOR: NATURAL CHOICE NO: SW 7011	GENERAL
_		PT-2	PAINT	SHERWIN WILLIAMS	COLOR: REPOSE GRAY NO: SW7015 (E26)	GENERAL
WALL FINISH		PT-3	PAINT	SHERWIN WILLIAMS	COLOR: TBD	ACCENT
∏ WAL	PAINT	PT-4	PAINT	BENJAMIN MOORE	NO: SW  COLOR: TBD	ACCENT
	ď	PT-5	PAINT	SHERWIN WILLIAMS	NO: COLOR: TBD NO: SW	ACCENT
		PT-6	PAINT	SHERWIN WILLIAMS	COLOR: TBD NO: SW	ACCENT
		PT-7	PAINT	SHERWIN WILLIAMS	COLOR: TBD NO: SW	ACCENT  HM DOORS / FRAMES
		PT-8	PAINT	SHERWIN WILLIAMS	COLOR: DOVETAIL NO: SW 7018	
		PT-9	PAINT	SHERWIN WILLIAMS	COLOR: HIGH REFLECTIVE WHITE NO: SW 7757	CEILING
		PT-10	PAINT	SHERWIN WILLIAMS	COLOR: NO: SW	ACCENT
WALL FINISH	WALL PANEL	AWP-1	ACOUSTICAL WALL PANEL	CONWED DESIGNSCAPE	DESCRIPTION: REBOUND, 2" THICKNESS SIZE AS INDICATED ON INTERIOR ELEVATIONS MINIMUM 1.15 NRC FABRIC WRAPPED ACOUSTICAL PANEL CHEM RESIN HARDENED EDGES. DESIGNTEX FABRIC, PATTERN - GAMUT, COLOR - T.B.D.	GYM
	PLAM	PL-1	PLASTIC LAMINATE	WILSONART	COLOR: T.B.D. (TO BE SELECTED FROM MANUFACTURER'S	TEACHER LOUNGE: CASEW
-	SOLID PLA	SSM	SOLID SURFACE MATERIAL	CORIAN	FULL LINE)  COLOR: T.B.D. (SELECTED FROM PRICE GROUP 3)	SINK BASE CABINET  TEACHER LOUNGE: CASEW COUNTERTOP
NEOUS		WC-1	SINGLE (NON-MOTORIZED) MANUAL WINDOW COVERING	DRAPER	DESCRIPTION: SEE SPEC COLOR: T.B.D. (TO BE SELECTED FROM MANUFACTURES STANDARD OFFERING) PEEER TO EXTERIOR ELEVATIONS FOR SIZES	ALTERNATE 2A
MISCELLANEOUS	WINDOW	WC-2	SINGLE (NON-MOTORIZED) MANUAL WINDOW COVERING	DRAPER	REFER TO EXTERIOR ELEVATIONS FOR SIZES.  DESCRIPTION: SEE SPEC COLOR: T.B.D. (TO BE SELECTED FROM MANUFACTURES STANDARD OFFERING)	ALTERNATE 2B: LEVEL 00
						1



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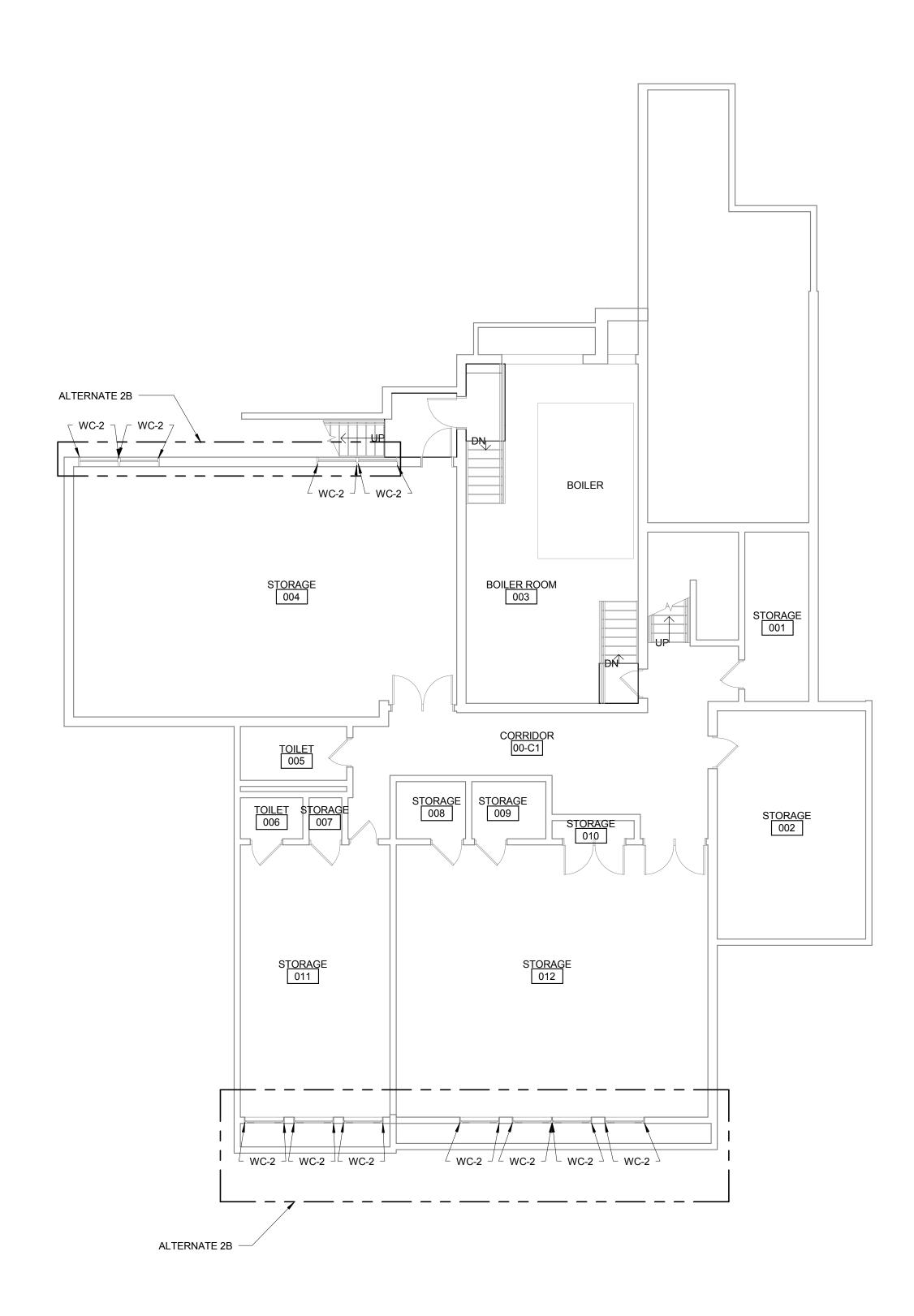
Drawing Title:

FINISH LEGEND, NOTES
AND DETAILS

Project No.: 004645.05

**41200** 

Checked by: Checker



1 LEVEL 00 FLOOR FINISH PLAN - AREA D & E

GENERAL FINISH NOTES

WALLS

1. ALL WALLS TO RECEIVE PAINT FINISH TO FNISHED
CEILING UNLESS NOTED OTHERWISE.

2. PROVIDE BULLNOSE CERAMIC TILE TRIM AT CERAMIC TILE ADJACENT WALL TRANSITION AND OUTSIDE CORNERS.

3. WALL TILE TO CONTINUE BEHIND ACCESSORIES.
4. PROVIDE EPOXY PAINT FOR TOILET ROOMS WITH GYP. BD. WALLS. SEE SPECIFICATION.
5. CERAMIC WALL TILE AT TOILET ROOMS TO BE 48" HIGH. A.F.F.

<u>FLOOR</u> 1. FOR FLOOR TRANSITION DETAILS SEE SHEET A1200.

2. ALL FLOORING MATERIAL CHANGES TO OCCUR AT CENTER OF DOOR STOP SIDE. REFER TO SHEET A1200 FOR TYPICAL FLOOR TRANSITION LOCATION.

3. FLOORING TO CONTINUE UNDER CABINETRY.

4. FLOOR PATCHING: REFER TO SHEETS A0101.A, A0101.B, AND A0101.C, KEYNOTE #12, FOR ALL LOCATIONS. MATCHING EXISTING MATERIAL, FINISH, COLOR, AND PATTERN, U.N.O.

BASE
1. COVE PROFILE BASE TO BE USED AT CARPET FLOOR FINISH.

CERAMIC WALL TILE TO HAVE COVE CERAMIC BASE COURSE.
 NO WALL BASE AT SEALED CONCRETE FLOORS, UNLESS NOTED OTHERWISE.

MISCELLANEOUS

1. INTERIOR HOLLOW METAL DOOR AND FRAME TO BE PT-8 UNLESS NOTED OTHERWISE.

2. GWB CEILINGS/SOFFITS PT-9 UNLESS NOTED OTHERWISE.

3. PROVIDE WINDOW COVERINGS AT ALL NEW EXTERIOR WINDOWS, INCLUDING REPLACEMENT WINDOWS. (WC-1) PER FINISH SCHEDULE.

FINISH SYMBOL KEY

- FLOOR

- BASE
- WALL

GENERAL ROOM FINISHES SHOW!

REFER TO SPECIFICATION.

GENERAL ROOM FINISHES SHOWN IN SYBMOL, EXCEPTIONS AS NOTED.

SEE SHEET A1200 FOR FINISH LEGEND

(#) WITH NUMBER INDICATES KEY NOTE

1 REINSTALL EXISTING WINDOW COVERINGS AFTER CONSTRUCTION COMPLETION.

DOCKEOR D

ROCKFORD PUBLIC SCHOOLS
RIVERDAHL ELEMENTARY
SCHOOL - ADDITION &
RENOVATION

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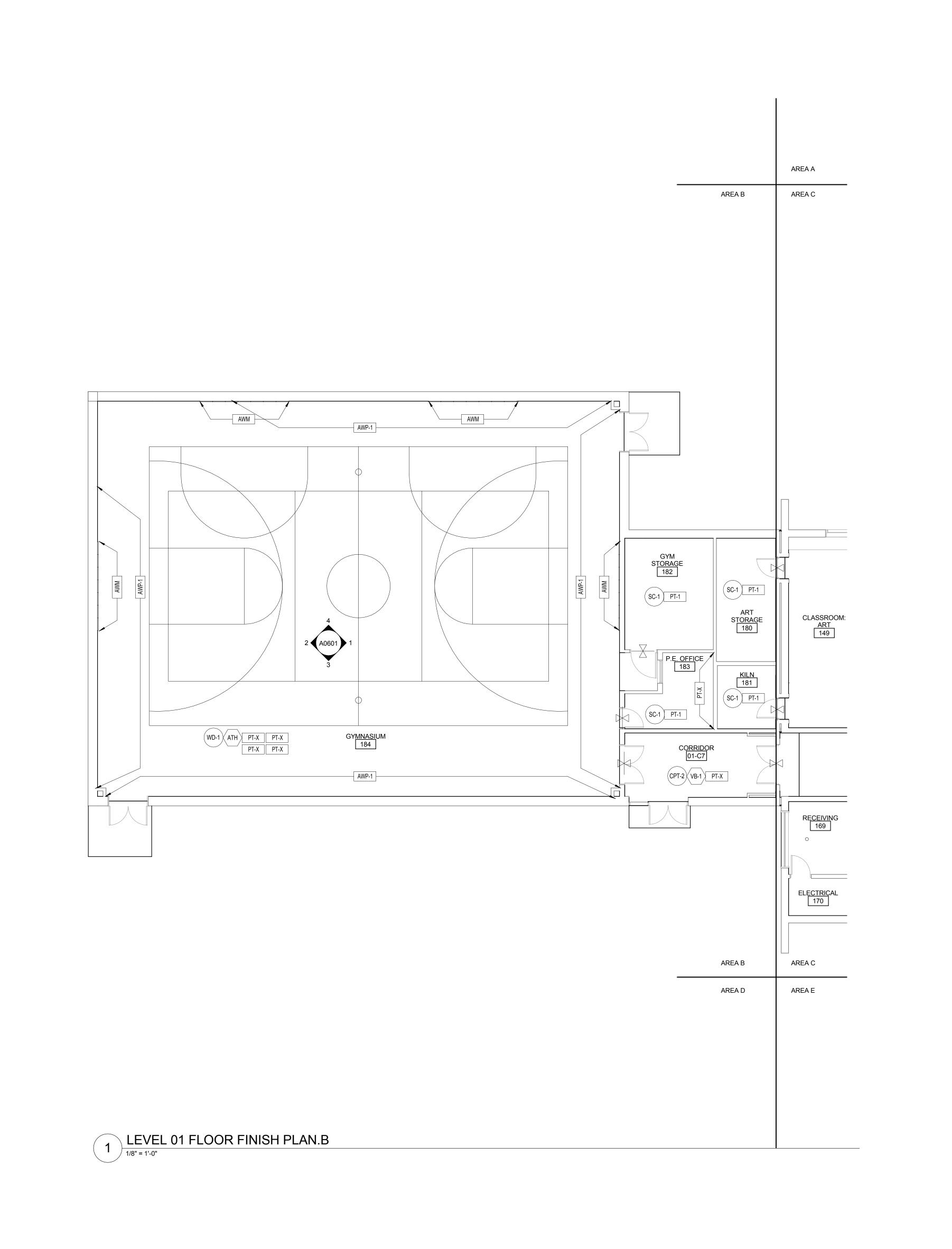
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5. CERAMIC WALL TILE AT TOILET ROOMS TO BE 48" HIGH. A.F.F.

<u>FLOOR</u> 1. FOR FLOOR TRANSITION DETAILS SEE SHEET A1200.

2. ALL FLOORING MATERIAL CHANGES TO OCCUR AT CENTER OF DOOR STOP SIDE. REFER TO SHEET A1200 FOR TYPICAL FLOOR TRANSITION LOCATION.

3. FLOORING TO CONTINUE UNDER CABINETRY.

4. FLOOR PATCHING: REFER TO SHEETS A0101.A, A0101.B, AND A0101.C, KEYNOTE #12, FOR ALL LOCATIONS. MATCHING EXISTING MATERIAL, FINISH, COLOR, AND PATTERN, U.N.O.

BASE
1. COVE PROFILE BASE TO BE USED AT CARPET FLOOR FINISH.

CERAMIC WALL TILE TO HAVE COVE CERAMIC BASE COURSE.
 NO WALL BASE AT SEALED CONCRETE FLOORS, UNLESS NOTED OTHERWISE.

MISCELLANEOUS

1. INTERIOR HOLLOW METAL DOOR AND FRAME TO BE PT-8 UNLESS NOTED OTHERWISE.

2. GWB CEILINGS/SOFFITS PT-9 UNLESS NOTED OTHERWISE.

3. PROVIDE WINDOW COVERINGS AT ALL NEW EXTERIOR WINDOWS, INCLUDING REPLACEMENT WINDOWS. (WC-1) PER FINISH SCHEDULE. REFER TO SPECIFICATION.

FINISH SYMBOL KEY

- FLOOR

- BASE
- WALL

GENERAL ROOM FINISHES SHOWN

GENERAL ROOM FINISHES SHOWN IN SYBMOL, EXCEPTIONS AS NOTED.

SEE SHEET A1200 FOR FINISH LEGEND

(#) WITH NUMBER INDICATES KEY NOTE

1 REINSTALL EXISTING WINDOW COVERINGS AFTER CONSTRUCTION COMPLETION.

ROCKFORD

ROCKFORD PUBLIC SCHOOLS
RIVERDAHL ELEMENTARY
SCHOOL - ADDITION &
RENOVATION

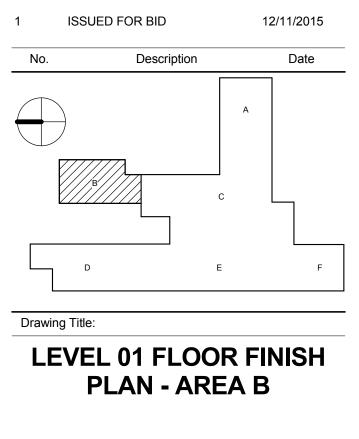
## CANVONDESIGN

225 North Michigan Avenue, Suite 1100 Chicago, Illinois 60601 T: 312.332.9600 F: 312.332.9601

PROFESSIONAL DESIGN FIRM LICENSE NUMBER 184.005683

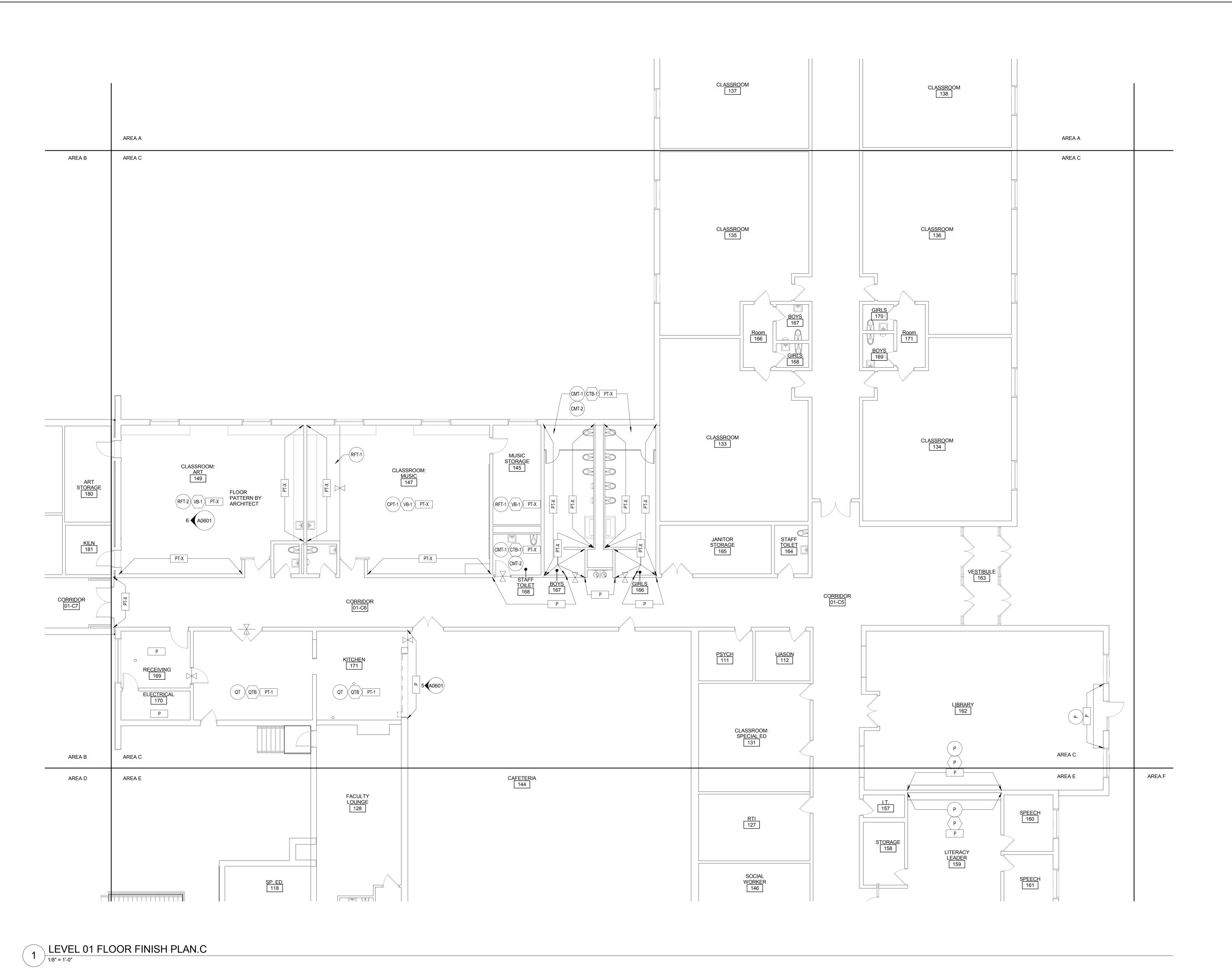
S2O CONSULTANTS, INC
Kitchen Consultants
13 Winding Branch Rd
Hawthorn Woods IL 60047
224-717-1999

ARC DESIGN RESOURCES INC.
Civil Consultants
5291 Zenith Parkway
Loves Park IL 61111
(815) 484-4300



\_ \_ \_ \_ \_ \_

A1201.B



GENERAL FINISH NOTES

WALLS

1. ALL WALLS TO RECEIVE PAINT FINISH TO FNISHED
CEILING UNLESS NOTED OTHERWISE. 2. PROVIDE BULLNOSE CERAMIC TILE TRIM AT CERAMIC TILE ADJACENT WALL TRANSITION AND OUTSIDE CORNERS.

3. WALL TILE TO CONTINUE BEHIND ACCESSORIES. 4. PROVIDE EPOXY PAINT FOR TOILET ROOMS WITH GYP. BD. WALLS. SEE SPECIFICATION.

5. CERAMIC WALL TILE AT TOILET ROOMS TO BE 48" HIGH. A.F.F.

<u>FLOOR</u>
1. FOR FLOOR TRANSITION DETAILS SEE SHEET

2. ALL FLOORING MATERIAL CHANGES TO OCCUR AT CENTER OF DOOR STOP SIDE. REFER TO SHEET A1200 FOR TYPICAL FLOOR TRANSITION LOCATION. 3. FLOORING TO CONTINUE UNDER CABINETRY.

4. FLOOR PATCHING: REFER TO SHEETS A0101.A, A0101.B, AND A0101.C, KEYNOTE #12, FOR ALL LOCATIONS. MATCHING EXISTING MATERIAL, FINISH, COLOR, AND PATTERN, U.N.O.

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3. NO WALL BASE AT SEALED CONCRETE FLOORS, UNLESS NOTED OTHERWISE.

MISCELLANEOUS

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WINDOWS. (WC-1) PER FINISH SCHEDULE. REFER TO SPECIFICATION. FINISH SYMBOL KEY

> - WALL GENERAL ROOM FINISHES SHOWN IN SYBMOL, EXCEPTIONS AS NOTED.

SEE SHEET A1200 FOR FINISH LEGEND  $\langle extbf{\#} 
angle$  with number indicates key note

BASE

1 REINSTALL EXISTING WINDOW COVERINGS AFTER CONSTRUCTION COMPLETION.

ROCKFORD PUBLIC SCHOOLS RIVERDAHL ELEMENTARY **SCHOOL - ADDITION & RENOVATION** 

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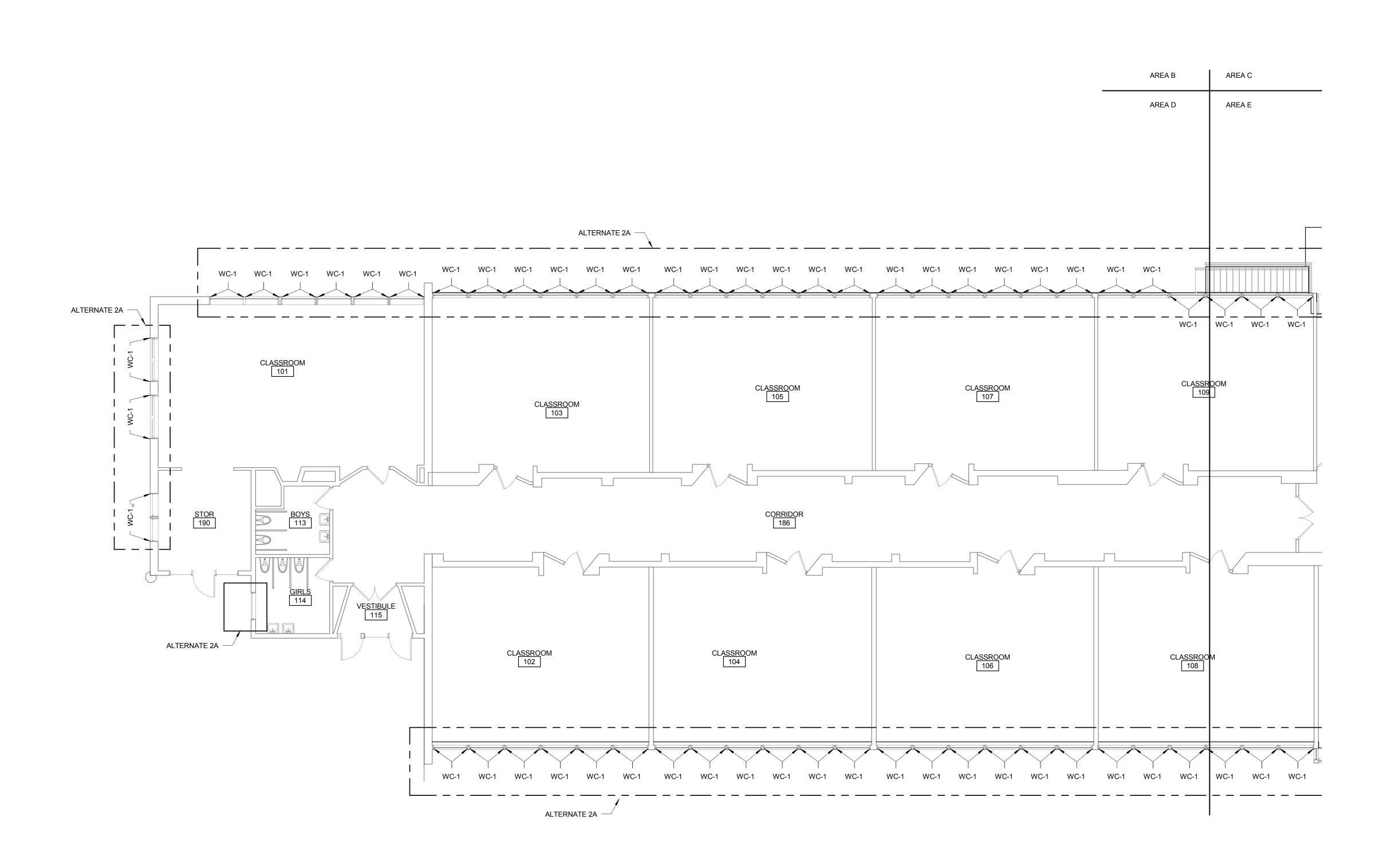
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ARC DESIGN RESOURCES INC. Civil Consultants 5291 Zenith Parkway Loves Park IL 61111 (815) 484-4300

ISSUED FOR BID Description Date LEVEL 01 FLOOR FINISH PLAN - AREA C

Project No.: 004645.05

A1201.C



1 LEVEL 01 FLOOR FINISH PLAN.D

GENERAL FINISH NOTES\_

WALLS

1. ALL WALLS TO RECEIVE PAINT FINISH TO FNISHED
CEILING UNLESS NOTED OTHERWISE.

2. PROVIDE BULLNOSE CERAMIC TILE TRIM AT CERAMIC TILE ADJACENT WALL TRANSITION AND OUTSIDE CORNERS.

3. WALL TILE TO CONTINUE BEHIND ACCESSORIES. 4. PROVIDE EPOXY PAINT FOR TOILET ROOMS WITH GYP. BD. WALLS. SEE SPECIFICATION. 5. CERAMIC WALL TILE AT TOILET ROOMS TO BE 48" HIGH. A.F.F.

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FINISH SYMBOL KEY ---- FLOOR

GENERAL ROOM FINISHES SHOWN IN SYBMOL, EXCEPTIONS AS NOTED. SEE SHEET A1200 FOR FINISH LEGEND

 $\langle$  # $\rangle$  WITH NUMBER INDICATES KEY NOTE

1 REINSTALL EXISTING WINDOW COVERINGS AFTER CONSTRUCTION COMPLETION.

ROCKFORD PUBLIC SCHOOLS RIVERDAHL ELEMENTARY **SCHOOL - ADDITION & RENOVATION** 

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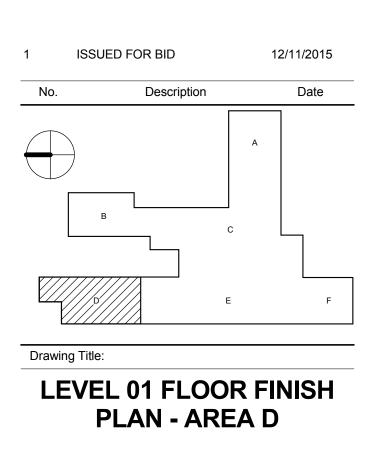
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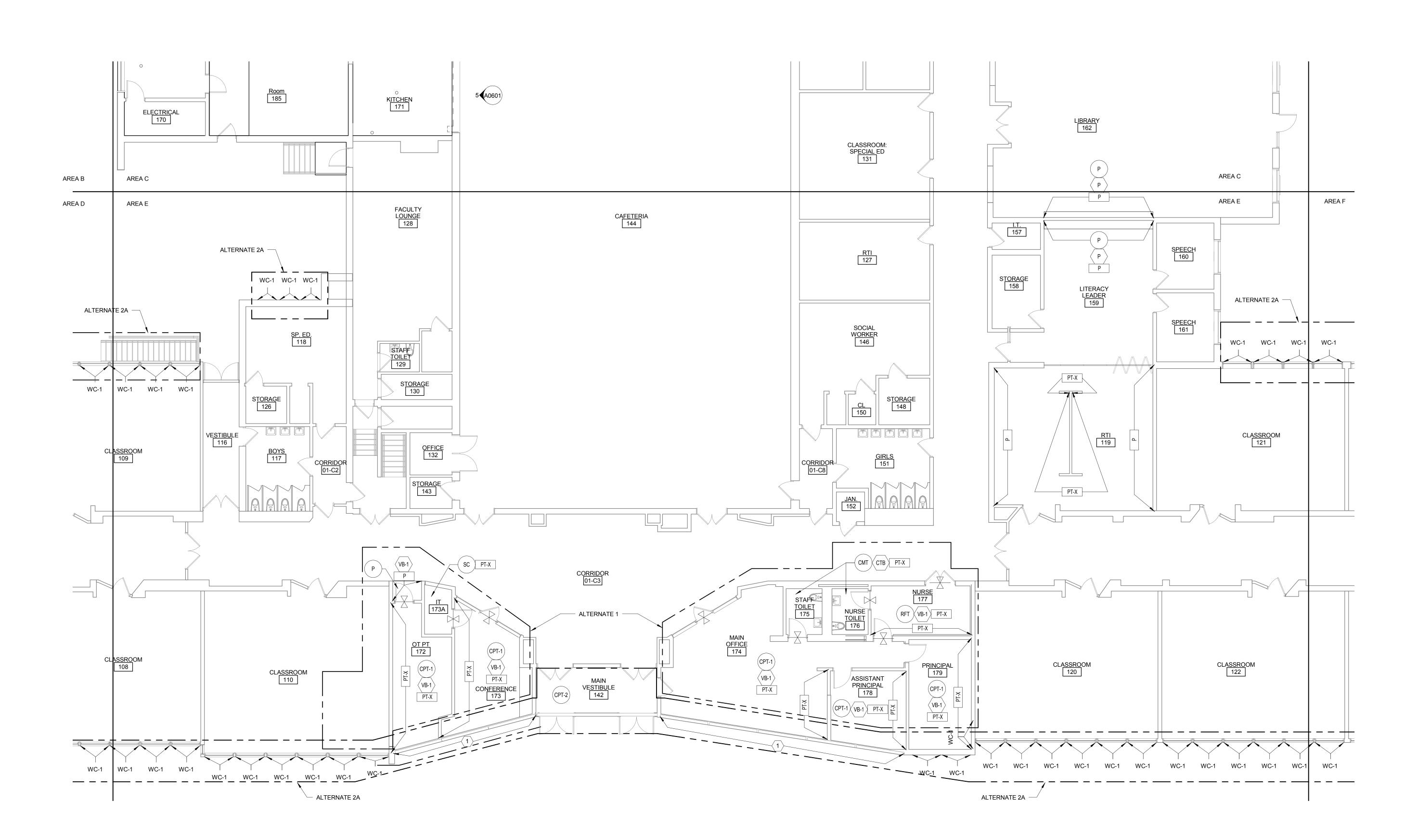
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ARC DESIGN RESOURCES INC. Civil Consultants 5291 Zenith Parkway Loves Park IL 61111 (815) 484-4300





1 LEVEL 01 FLOOR FINISH PLAN.E

GENERAL FINISH NOTES

A1200.

WALLS

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CEILING UNLESS NOTED OTHERWISE.

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OUTSIDE CORNERS.

3. WALL TILE TO CONTINUE BEHIND ACCESSORIES.

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FINISH SYMBOL KEY

- FLOOR
BASE
- WALL

GENERAL ROOM FINISHES SHOWN IN SYBMOL, EXCEPTIONS AS NOTED.

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ROCKFORD PUBLIC SCHOOLS
RIVERDAHL ELEMENTARY
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RENOVATION

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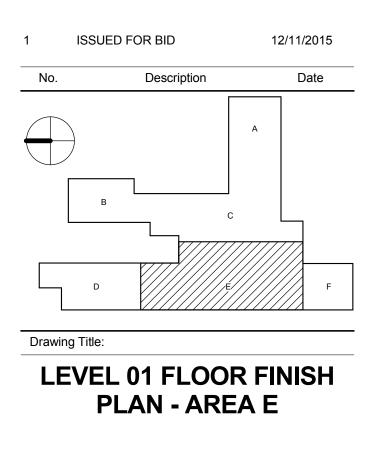
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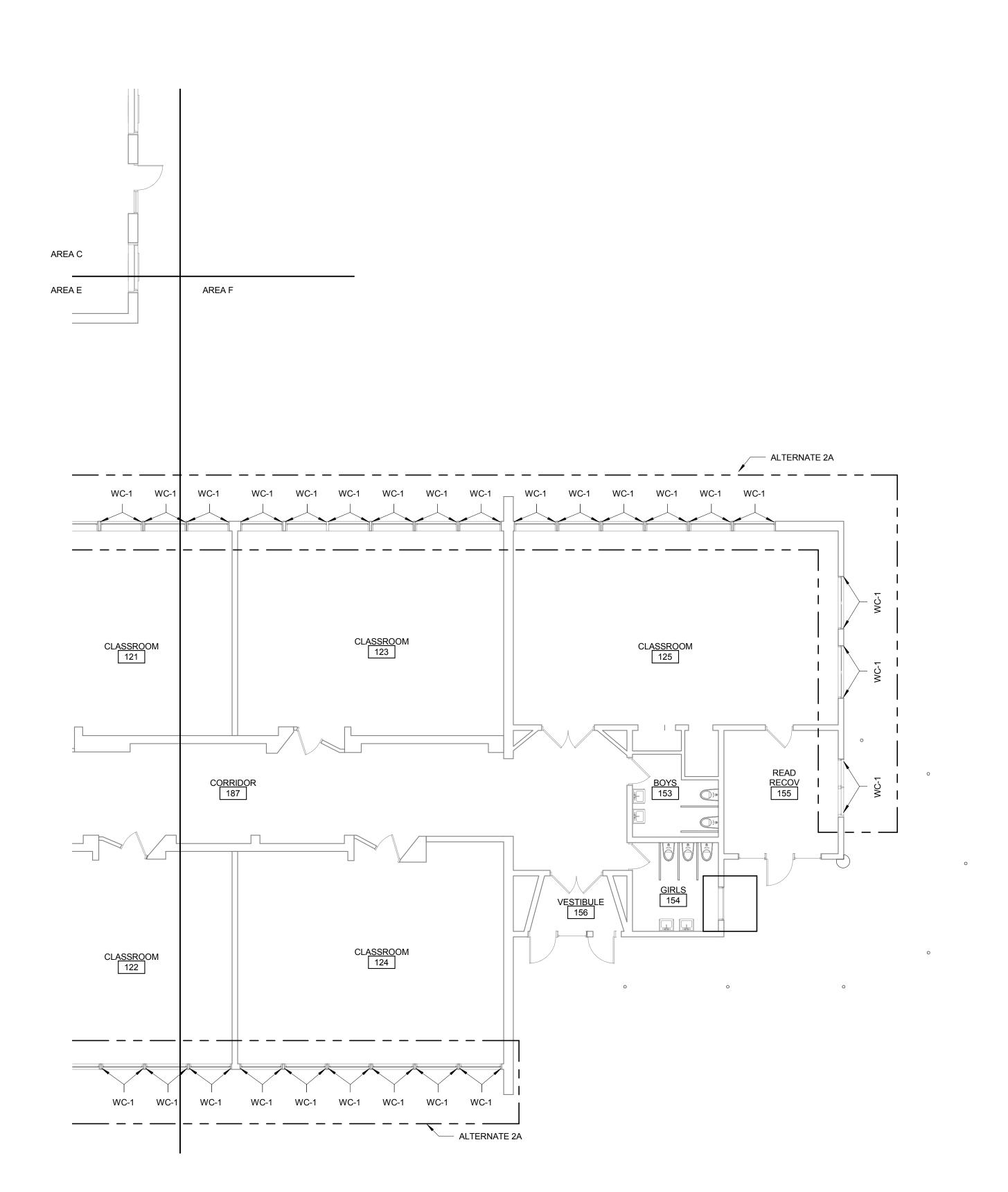
224-717-1999

ARC DESIGN RESOURCES INC.
Civil Consultants
5291 Zenith Parkway
Loves Park IL 61111
(815) 484-4300



ect No.: 004645.05 Checked by: Ch

A1201.E



1 LEVEL 01 FLOOR FINISH PLAN - AREA F

GENERAL FINISH NOTES

WALLS

1. ALL WALLS TO RECEIVE PAINT FINISH TO FNISHED
CEILING UNLESS NOTED OTHERWISE.

2. PROVIDE BULLNOSE CERAMIC TILE TRIM AT CERAMIC TILE ADJACENT WALL TRANSITION AND OUTSIDE CORNERS.

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FINISH SYMBOL KEY — FLOOR - WALL

GENERAL ROOM FINISHES SHOWN IN SYBMOL, EXCEPTIONS AS NOTED.

SEE SHEET A1200 FOR FINISH LEGEND  $\langle$  # $\rangle$  WITH NUMBER INDICATES KEY NOTE

1 REINSTALL EXISTING WINDOW COVERINGS AFTER CONSTRUCTION COMPLETION.

ROCKFORD PUBLIC SCHOOLS RIVERDAHL ELEMENTARY **SCHOOL - ADDITION & RENOVATION** 

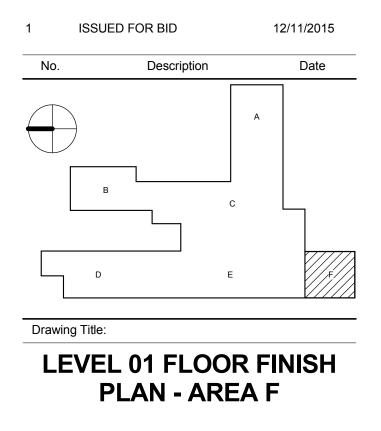
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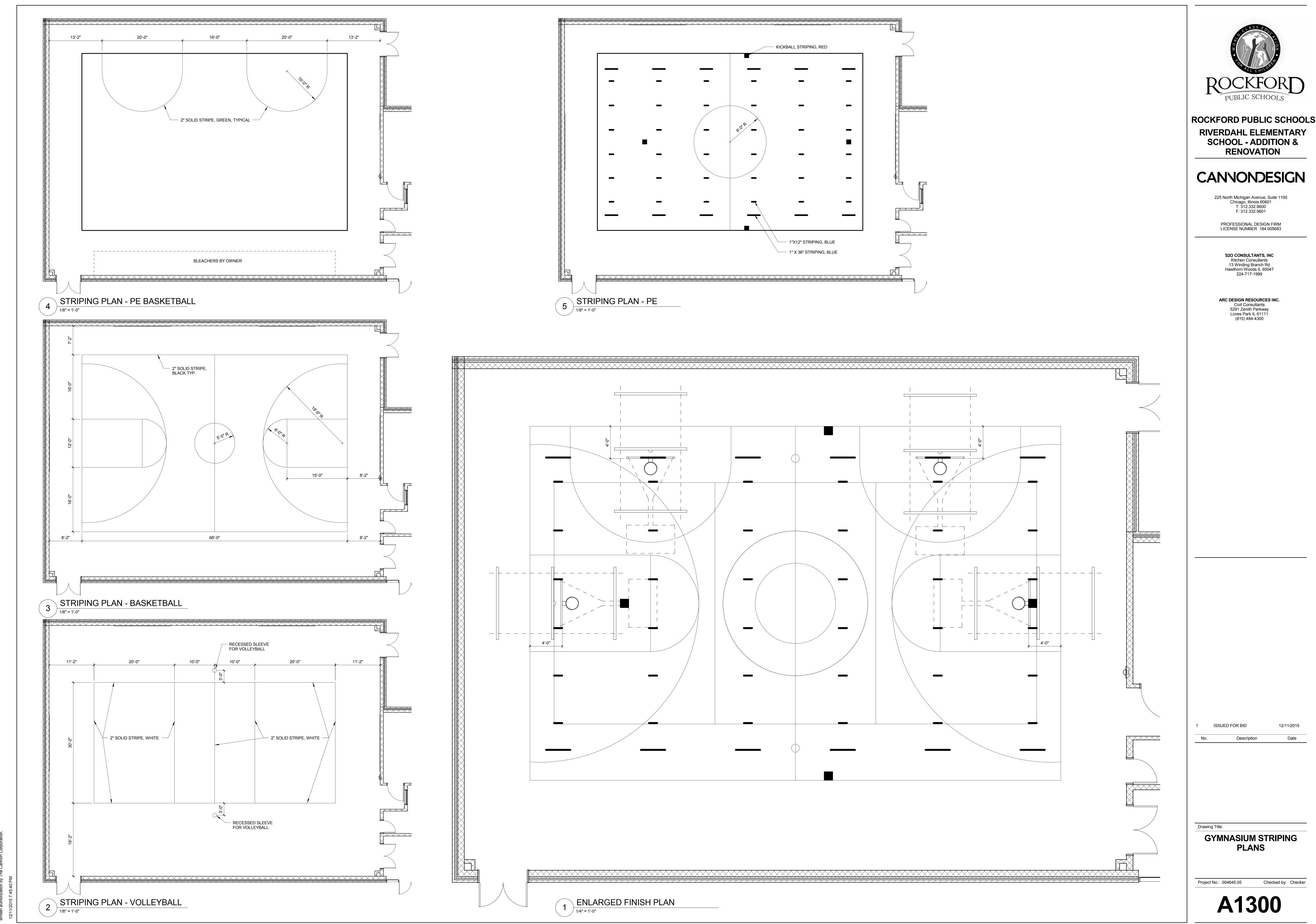
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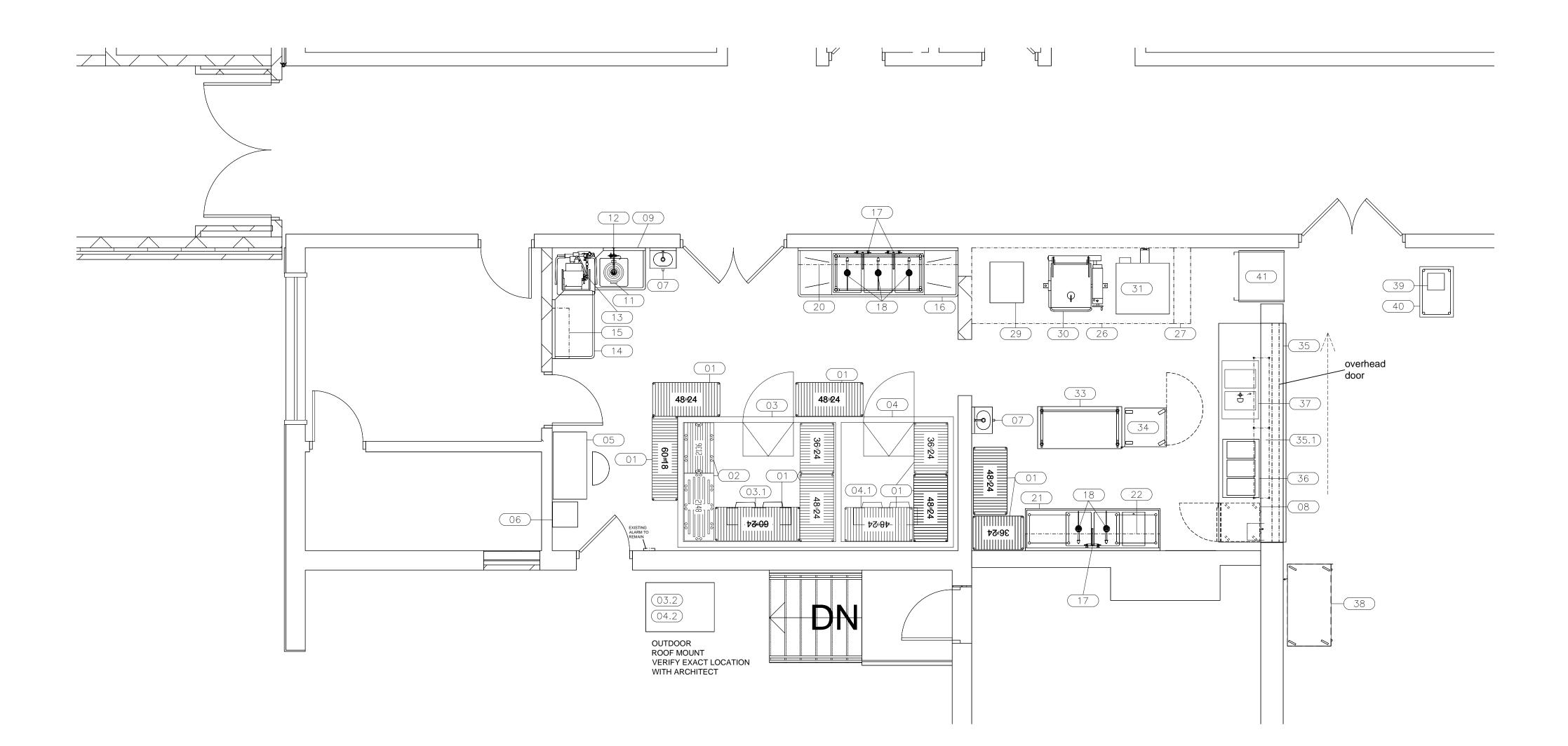
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ARC DESIGN RESOURCES INC. Civil Consultants 5291 Zenith Parkway Loves Park IL 61111 (815) 484-4300







ITEM NO	ОТУ	FOLUDIATINE CATECODY	EQUIPMENT REMARKS	ľ
_	· ·	EQUIPMENT CATEGORY SHELVING UNIT	REWARNS	1
01				0
02	2	RACK, DUNNAGE		0
03	1	WALK-IN COOLER		0
03.1	1	EVAPORATOR COIL		0
03.2	1	COMPRESSOR		0
04	1	WALK-IN FREEZER		0
04.1	1	EVAPORATOR COIL - WALK-IN FREEZER		0
04.2	1	COMPRESSOR - WALK-IN FREEZER	\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	0
05	1	DESK	NIKEC	0
06	1	FILE CABINET	NIKEC	0
07		SINK, HAND, WALL MOUNT		0
80	1	PREP REFRIGERATOR		0
09	1	SOILED DISHTABLE		0
10	1	SPARE NUMBER		1
11	1	DISPOSER, GARBAGE		1
12	1	PRE-RINSE FAUCET, WALL MOUNT		1
13	1	WAREWASHER, DOOR TYPE, HIGH TEMP		1
14	1	CLEAN DISHTABLE		1
15	1	SHELF, WALL MOUNT		1
16	1	SINK, SCULLERY, 3 COMPARTMENTS		1
17	3	FAUCET, BACKSPLASH MOUNT		1
18	5	DRAIN, LEVER HANDLE, W/ OVERFLOW		1
19	1	SPARE NUMBER		1
20	1	SHELF, WALL MOUNT		2
21	1	TABLE, PREP W/ SINK		2
22	2	SHELF, WALL MOUNT	TWO TIER	2
23-25	1	SPARE NUMBER		2
26	1	EXHAUST HOOD	EXISTING 144" X 54"	2
27	1	FIRE SUPPRESSION	EXISTING	2
28	1	SPARE NUMBER		2
29	1	STEAMER	EXISTING TO REMAIN	2
30	1	TILT SKILLET	EXISTING TO REMAIN	3
31	2	OVEN, CONVECTION, GAS	(1) EXISTING TO REMAIN (1) NEW - DOUBLE STACK	3
33	1	MOBILE WORKTABLE	EXISTING 30" X 60" ADDING CASTERS	3
34	1	HOLDING CABINET, HUMIDIFIED HEATED	EXISTING	3
35	1	FRONT COUNTER		3
35.1	1	FOODSHIELD		3
36	1	DROP-IN, HOT WELLS		3
37	1	DROP-IN, HOT/COLD UNIT		3
38	1	MILK COOLER	NIKEC - BY VENDOR	3
39	1	POS	NIKEC	3
40	1	MOBILE WORK TABLE		4
41	1	REFRIGERATED SELF-SERVICE CASE		4

#### **DISCLAIMER**

THIS DRAWING IS PREPARED FOR THE USE OF THE DESIGN TEAM IN PREPARING THEIR RESPECTIVE DOCUMENTS; AND FOR BIDDING OF THE FOOD SERVICE EQUIPMENT. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION AND FOR ROUGHING IN OF SERVICES. DIMENSIONED ROUGHING IN DRAWINGS WILL BE PREPARED BY THE KITCHEN EQUIPMENT CONTRACTOR.

### **GENERAL NOTES**

- ANY DISCREPANCIES BETWEEN THESE PLANS, WRITTEN SPECIFICATIONS, BUILDING, HEALTH OR OTHER LOCAL CODE REQUIREMENTS THAT MAY AFFECT THE DESIGN INTENT, INSTALLATION, FABRICATION OR OVERALL WORK IN ANY WAY SHALL BE BROUGHT TO THE ATTENTION OF THE FOODSERVICE CONSULTANT BY WAY OF THE GENERAL CONTRACTOR
- AND/OR ARCHITECT. 2. KITCHEN EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EQUIPMENT SHOWN ON PLANS AND MENTIONED IN THE WRITTEN SPECIFICATIONS. DISCREPANCIES IN QUANTITIES, ITEMS SHOWN ON PLAN BUT NOT MENTIONED IN THE WRITTEN SPECIFICATIONS OR VISA-VERSA SHALL BE BROUGHT TO THE ATTENTION OF THE FOODSERVICE CONSULTANT BY WAY OF THE GENERAL CONTRACTOR AND/OR ARCHITECT.
- 3. GENERAL CONTRACTOR SHALL PROVIDE A MEANS TO EVACUATE HEAT
- GENERATED BY FOODSERVICE EQUIPMENT WITHIN ENCLOSED SPACE(S). 4. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL BLOCKING IN WALLS FOR MOUNTING WALL SHELVES, POT RACKS, DISPLAY CASES, HOSE REEL(S), HAND SINKS, CONTROL PANELS, ETC. AS SHOWN ON
- 5. KITCHEN EQUIPMENT CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS.



ROCKFORD PUBLIC SCHOOLS RIVERDAHL ELEMENTARY **SCHOOL - ADDITION & RENOVATION** 

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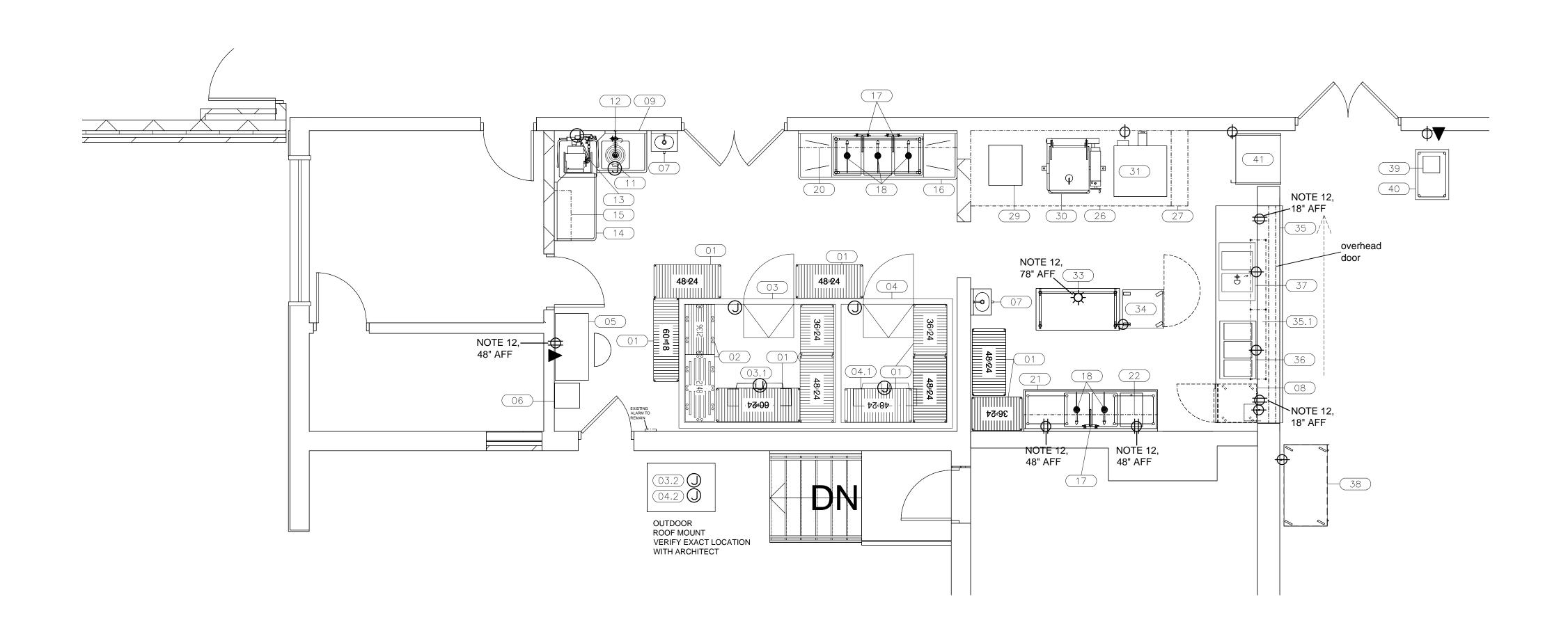
Civil Consultants 5291 Zenith Parkway Loves Park IL 61111 (815) 484-4300

ISSUED FOR BID 12.11.2015 Date Description Drawing Title: **FOODSERVICE EQUIPMENT PLAN** & SCHEDULE

Project No.: 004645.05

FS101

Checked by: Checker



		ELECTRICAL LOAD S	CHE	ם וו ום							
		LLLCTRICAL LOAD (			<u>-</u>		1				
ITEM NO QTY EQUIPMENT CATE	EQUIP EGORY REMAR		유	KW	NOLTS	PHASE	PLUG	NEMA	ELECTRICAL AFF (IN)	ELEC REMARKS	ITEI NO
03 1 WALK-IN COOLER		16.0			120	1 >	(		48	LIGHTS/ALARM	03
03.1 1 EVAPORATOR COIL		16.0			208	1 >	(		96		03.1
03.2 1 COMPRESSOR			0.5		208	1 >	(		96		03.2
04 1 WALK-IN FREEZER		16.0			120	1 >	(		48	LIGHTS/ALARM	04
04.1 1 EVAPORATOR COIL - \	VALK-IN FREEZER	16.0			208	1 >	(		96		04.1
04.2 1 COMPRESSOR - WALK	-IN FREEZER		1.5		208	3 >	(		96		04.2
05 1 DESK	NIKEC	16.0			120	1	Х	5-20P	48	DATA REQ'D	05
08 1 PREP REFRIGERATOR		6.0	0.2		115	1	Х	5-20P	24		08
11 1 DISPOSER, GARBAGE		6.0	3.0		208	3 >	(		4		11
13 1 WAREWASHER, DOOR	TYPE, HIGH TEMP	24.9			208	3 >	(		12.75		13
21 1 TABLE, PREP W/ SINK		(2)16	6		120	1	Х	5-20P	36	DR CONVENIENCE OUTLETS ON WALL	21
31 2 OVEN, CONVECTION,	GAS (1) EXIS	TING TO REMAIN (1) NEW - DOUBLE STACK 7.9			120	1	Х	5-20P	29.25	(1) EXISTING (1) NEW	31
33 1 MOBILE WORKTABLE	EXISTIN	G 30" X 60" ADDING CASTERS 16.0			120	1	Х	5-20P	CEILING	PENDANT RECEPTACLE	33
34 1 HOLDING CABINET, HI	JMIDIFIED HEATED EXISTING	G 19.8			120	1	Х	5-20P	48		34
35 1 FRONT COUNTER		(2)16	3		120	1	Х	5-20P	18	DR-ON WALL BELOW COUNTER	35
36 1 DROP-IN, HOT WELLS		15.6		1.9	120	1	Х	5-20P	16		36
37 1 DROP-IN, HOT/COLD U	NIT	11.2			120	1	Х	5-20P	18		37
38 1 MILK COOLER	NIKEC -	BY VENDOR 6.8	0.33		120	1	Х	5-20P	12		38
39 1 POS	NIKEC	16.0			120	1	Х	5-20P	34	DATA REQ'D	39
41 1 REFRIGERATED SELF-	SERVICE CASE	14.0			120	1	Х	5-20P	18		41



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#### **ELECTRICAL NOTES**

TO BE PROVIDED BY ELECTRICAL CONTRACTOR

**ELECTRICAL SYMBOLS** 

SWITCH

3 WAY SWITCH

JUNCTION BOX

PHONE OUTLET

DATA OUTLET

POWER FEED JUMPER

SINGLE OUTLET 110 V.

DUPLEX OUTLET 110 V.

CEILING MOUNT FIXTURE

DOUBLE DUPLEX OUTLET 110 V.

FLOURECENT LIGHT (SIZE OF FIXTURE VARIES)

- 1. DRAWING SHOWS CONNECTION POINTS ON EQUIPMENT. ROUGH-IN POINTS ARE NOT THE SAME AND ALLOWANCES SHALL BE MADE FOR DISCONNECTS, ACCESS, ETC. ALL ROUGH-INS AND CONNECTIONS SHALL BE PER APPLICABLE CODE.
- 2. DRAWING SHOWS REQUIREMENTS FOR FOOD SERVICE EQUIPMENT ONLY; SEE ELECTRIC DRAWINGS FOR ADDITIONAL INFORMATION.
- 3. ALL CONDUITS, BOXES, ETC. SHALL BE CONCEALED WITHIN WALLS AND STUBBED OUT AS CLOSE AS POSSIBLE TO THE CONNECTION POINT. DO NOT RUN EXPOSED ON THE WALL.
- 4. CONDUIT EXPOSED ABOVE THE WORKING SURFACE OF THE EQUIPMENT SHALL BE STAINLESS STEEL, CHROME PLATED, OR SHROUDED IN A STAINLESS STEEL COVER.
- 5-7. NOT USED.
- 8. PROVIDE FIVE (5) #12 THHN WIRES FROM THE COMPRESSOR LOCATION TO THE EVAPORATOR COIL. (FREEZÈR' SYSTEMS ONLY)
- 9. CASH REGISTERS AND SIMILAR COMPUTERIZED POINT-OF-SALE EQUIPMENT REQUIRE CLEAN, ISOLATED SERVICE.
- 10. PROVIDE EMPTY EMT BETWEEN CASH REGISTERS, POINT-OF-SALE UNITS AND CENTRAL LOCATION. 11. NOT USED.
- 12. PROVIDE DUPLEX CONVENIENCE OUTLET (DCO), 120/1, 20 AMPS AT HEIGHT INDICATED.
- 13. PROVIDE PENDANT RECEPTACLE, 120/1, 20 AMPS, AT 78" ABOVE THE FINISHED FLOOR.

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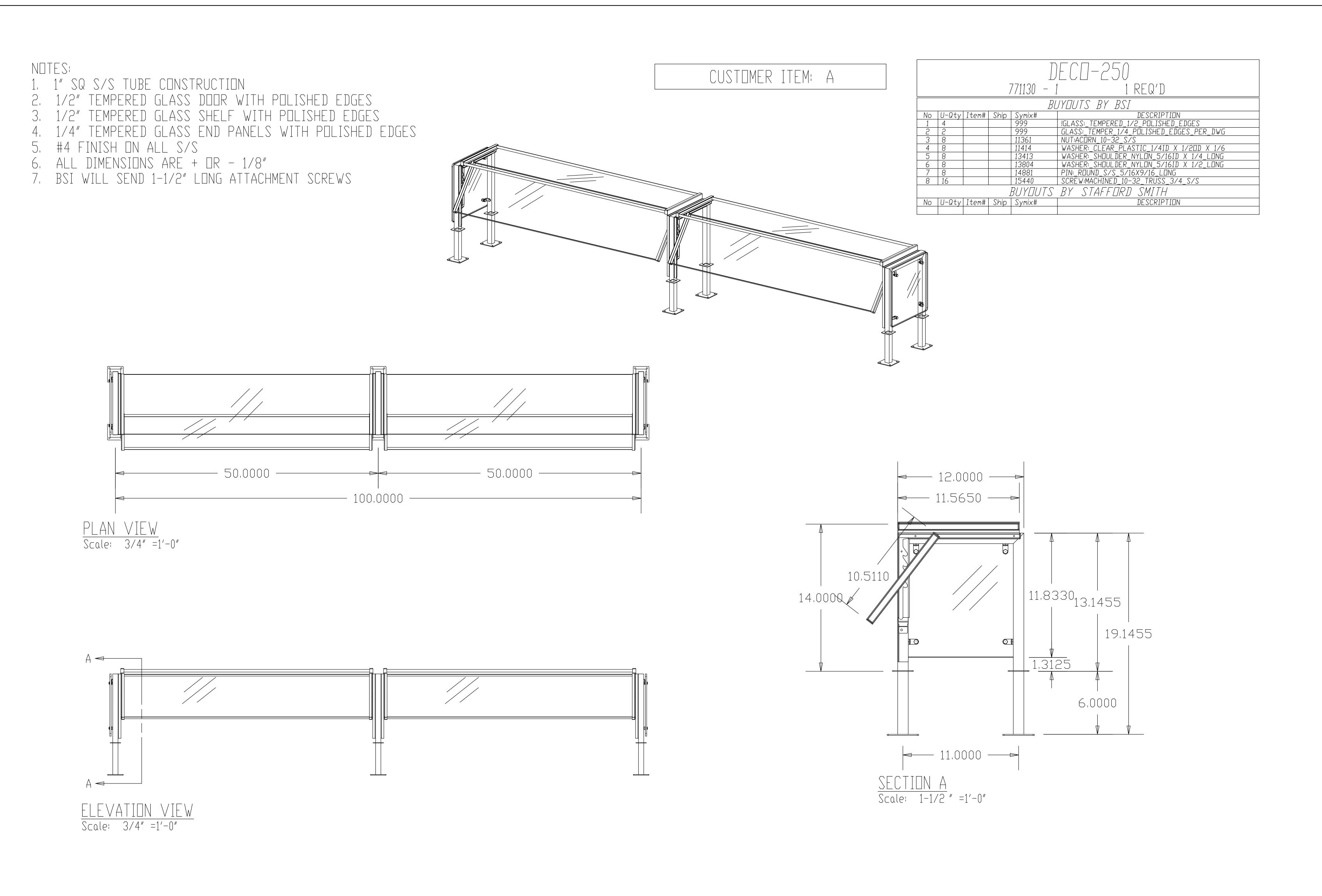
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- AND/OR ARCHITECT. KITCHEN EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EQUIPMENT SHOWN ON PLANS AND MENTIONED IN THE WRITTEN SPECIFICATIONS. DISCREPANCIES IN QUANTITIES, ITEMS SHOWN ON PLAN BUT NOT MENTIONED IN THE WRITTEN SPECIFICATIONS OR VISA-VERSA SHALL BE BROUGHT TO THE ATTENTION OF THE FOODSERVICE CONSULTANT BY WAY OF THE GENERAL CONTRACTOR AND/OR
- ARCHITECT. 3. GENERAL CONTRACTOR SHALL PROVIDE A MEANS TO EVACUATE HEAT
- GENERATED BY FOODSERVICE EQUIPMENT WITHIN ENCLOSED SPACE(S). 4. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL BLOCKING IN WALLS FOR MOUNTING WALL SHELVES, POT RACKS, DISPLAY CASES, HOSE REEL(S), HAND SINKS, CONTROL PANELS, ETC. AS SHOWN ON
- KITCHEN EQUIPMENT CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS.

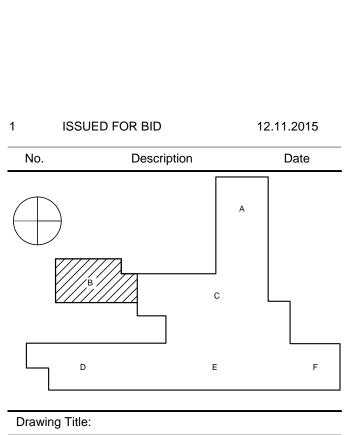
ISSUED FOR BID Date Description Drawing Title: **FOODSERVICE** 

**ELECTRICAL SPOT PLAN & LOAD SCHEDULE** 

Project No.: 004645.05 Checked by: Checker

**FS101E** 





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**RENOVATION** 

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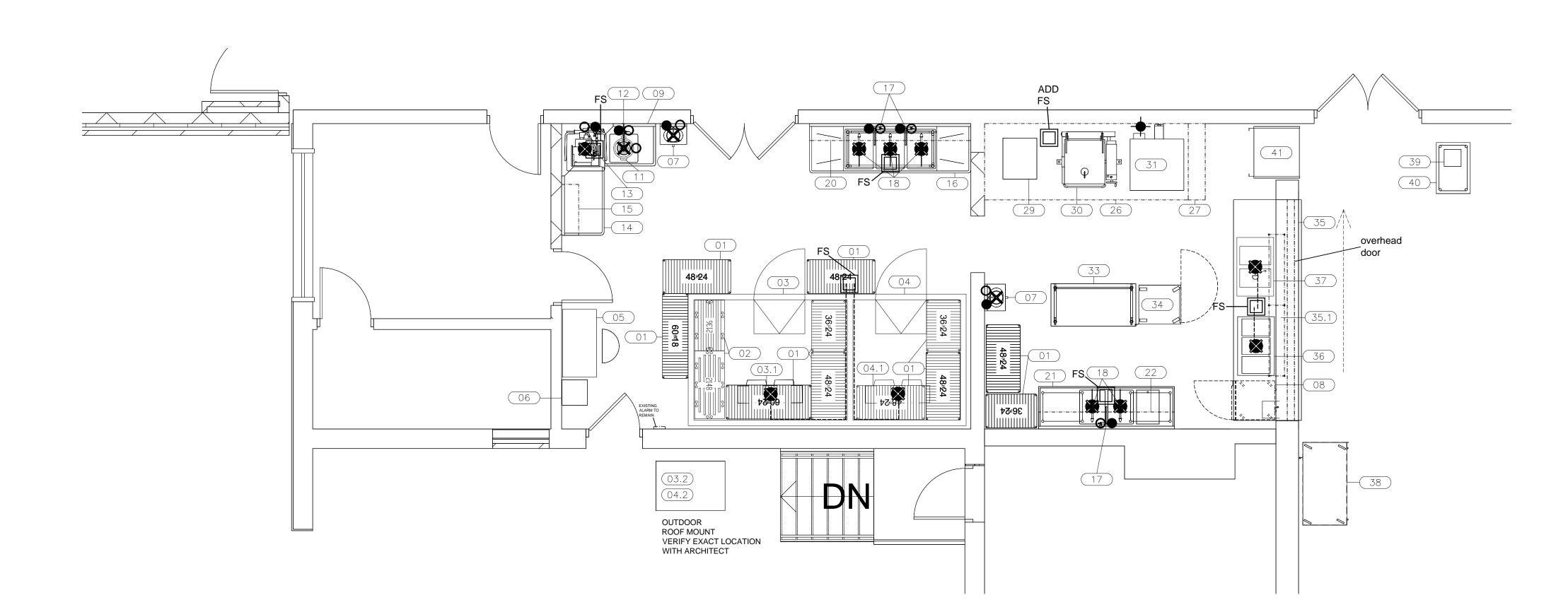
**FOODSHIELD** DETAIL- ITEM #35.1

Project No.: 004645.05

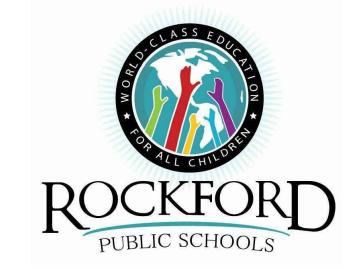
**FS101F** 

5125 RACE COURT

DENVER, CO 80216 (800) 662-9595 (303) 331-8444 FAX



			MECHANICA	L LC	DAD	SC	HE	DUL	E					
ITEM NO	QTY	EQUIPMENT CATEGORY	EQUIPMENT REMARKS	COLD WATER SIZE (IN)	COLD WATER AFF (IN)	HOT WATER SIZE (IN)	HOT WATER AFF (IN)	DIRECT DRAIN SIZE (IN)	DIRECT DRAIN AFF (IN) INDIR DRAIN SIZE (IN)	PLUMBING REMARKS	GAS SIZE (IN)	МВТОН	GAS AFF (IN)	ITEM NO
03.1	1	EVAPORATOR COIL							1	FS REQ'D				03.1
04.1	1	EVAPORATOR COIL - WALK-IN FREEZER							1	FS REQ'D				04.1
07	2	SINK, HAND, WALL MOUNT		0.5	34	0.5	34	1	24					07
11	1	DISPOSER, GARBAGE		0.5	20			3	12					11
12	1	PRE-RINSE FAUCET, WALL MOUNT		0.5	40	0.5	40							12
13	1	WAREWASHER, DOOR TYPE, HIGH TEMP		0.5	73.25	0.5	42.25		1.5	FS REQ'D				13
16	1	SINK, SCULLERY, 3 COMPARTMENTS							Х	DRAIN THROUGH GREASE TRAP				16
17	3	FAUCET, BACKSPLASH MOUNT		0.5	40	0.5	40							17
18	5	DRAIN, LEVER HANDLE, W/ OVERFLOW							2	FS REQ'D				18
29	1	STEAMER	EXISTING TO REMAIN						Х	FS REQ'D				29
30	1	TILT SKILLET	EXISTING TO REMAIN						Х	FS REQ'D				30
31	2	OVEN, CONVECTION, GAS	(1) EXISTING TO REMAIN (1) NEW - DOUBLE STACK							(1) EXISITNG (1) NEW	0.75	72	43	31
36	1	DROP-IN, HOT WELLS							1	FS REQ'D				36
37	1	DROP-IN, HOT/COLD UNIT							0.5	FS REQ'D				37



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(815) 484-4300

#### **MECHANICAL NOTES**

**MECHANICAL SYMBOLS** 

HOT WATER

COLD WATER

INDIRECT WASTE

GAS CONNECTION

STEAM SUPPLY

FLOOR SINK

COOLING WATER TOWER

CONDENSATE RETURN

FUNNEL FLOOR DRAIN

AREA FLOOR DRAIN

REFRIGERATION LINE

COMPRESSED AIR

EXHAUST DUCT

SUPPLY DUCT

WATER FILTER INTERCONNECT

COOLING WATER TOWER RETURN

DIRECT WASTE

THESE NOTES APPLY TO THE WORK OF THE MECHANICAL AND PLUMBING TRADES.

- 1. DRAWING SHOWS CONNECTION POINTS ON EQUIPMENT. ROUGH—IN POINTS ARE NOT THE SAME AND ALLOWANCES SHALL BE MADE FOR VALVES, STOPS, ACCESS, ETC. ALL ROUGH—INS AND CONNECTIONS SHALL BE PER APPLICABLE CODE.
- 2. DRAWING SHOWS REQUIREMENTS FOR FOOD SERVICE EQUIPMENT ONLY; SEE MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 3. ALL PIPE, FITTINGS, ETC. SHALL BE CONCEALED WITHIN WALLS AND STUBBED OUT AS CLOSE AS POSSIBLE TO THE CONNECTION POINT. DO NOT RUN EXPOSED ON THE WALL
- 4. PIPING EXPOSED ABOVE THE WORKING SURFACE OF THE EQUIPMENT SHALL BE STAINLESS STEEL, CHROME PLATED, OR SHROUDED IN A STAINLESS STEEL COVER.
- 5. ALL PIPING SHALL BE AT LEAST 6" ABOVE THE FLOOR TO ALLOW FOR EASE OF CLEANING.
- 6-9. NOT USED.
- 10. WE RECOMMEND CENTRAL GREASE TRAPS EXTERNAL OF THE BUILDING CODE OR FOOD—SERVICE SPACE. IF THIS IS NOT POSSIBLE, THEN RECCESSED, POINT—OF—USE GREASE TRAPS ARE PERMITTED; COORDINATE LOCATION WITH KITCHEN DESIGNER.
- 11. REFRIGERATED EQUIPMENT IS DESIGNED FOR OPERATION IN AN AMBIENT TEMPERATURE NOT EXCEEDING 100 DEGREES FAHRENHEIT. AIR COOLED EQUIPMENT REQUIRES VENTILATION AT 1,000 CFM PER HORSEPOWER; WATER—COOLED EQUIPMENT REQUIRES COOLING WATER AT 70 DEGREES FAHRENHEIT AT THE RATE OF 1.5 GPM PER HORSEPOWER.

#### **DISCLAIMER**

THIS DRAWING IS PREPARED FOR THE USE OF THE DESIGN TEAM IN PREPARING THEIR RESPECTIVE DOCUMENTS; AND FOR BIDDING OF THE FOOD SERVICE EQUIPMENT. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION AND FOR ROUGHING IN OF SERVICES. DIMENSIONED ROUGHING IN DRAWINGS WILL BE PREPARED BY THE KITCHEN EQUIPMENT CONTRACTOR.

### GENERAL NOTES

- ANY DISCREPANCIES BETWEEN THESE PLANS, WRITTEN SPECIFICATIONS, BUILDING, HEALTH OR OTHER LOCAL CODE REQUIREMENTS THAT MAY AFFECT THE DESIGN INTENT, INSTALLATION, FABRICATION OR OVERALL WORK IN ANY WAY SHALL BE BROUGHT TO THE ATTENTION OF THE FOODSERVICE CONSULTANT BY WAY OF THE GENERAL CONTRACTOR
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  4. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL BLOCKING IN WALLS FOR MOUNTING WALL SHELVES, POT RACKS, DISPLAY CASES, HOSE REEL(S), HAND SINKS, CONTROL PANELS, ETC. AS SHOWN ON
- KITCHEN EQUIPMENT CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS.

1 ISSUED FOR BID 12.11.2015

No. Description Date

Drawing Title:

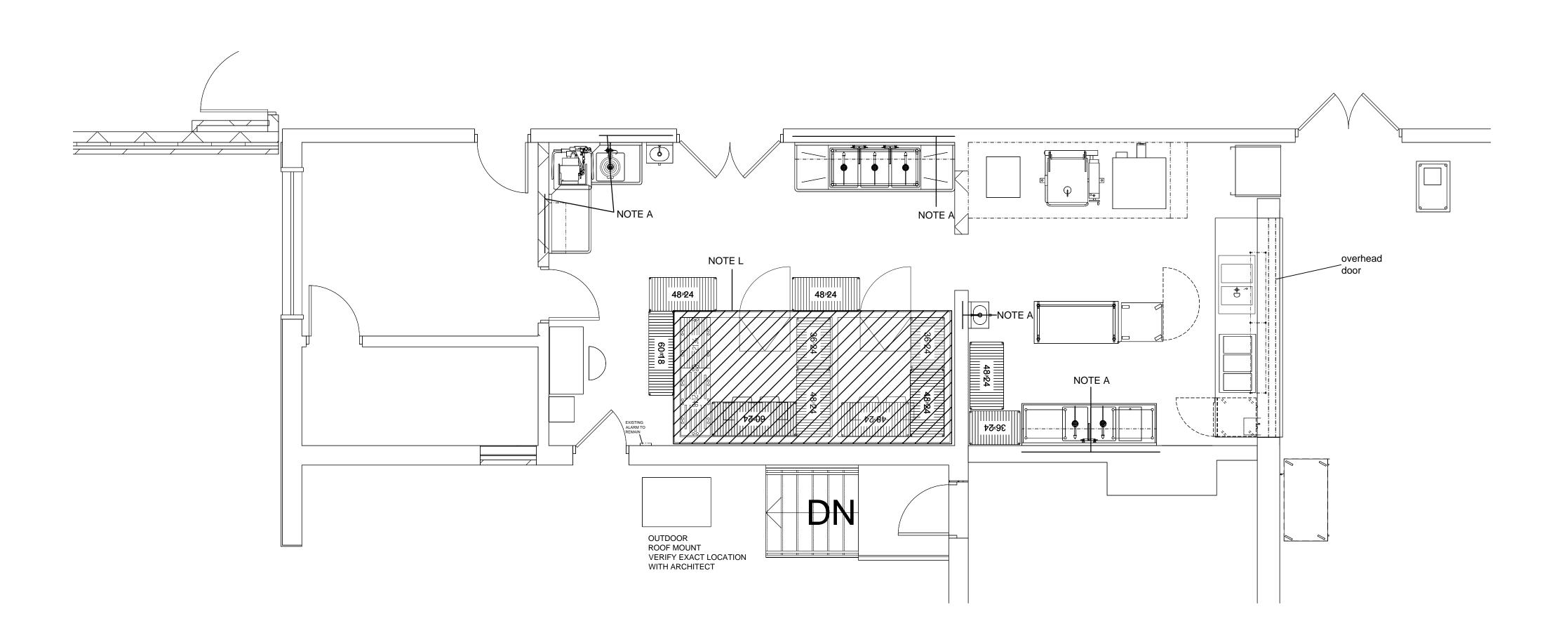
FOODSERVICE

MECHANICAL

MECHANICAL SPOT PLAN & LOAD SCHEDULE

Project No.: 004645.05 Checked by: Checker

FS101M



FRONT COUNTER DETAIL

#### SPECIAL CONDITIONS NOTES

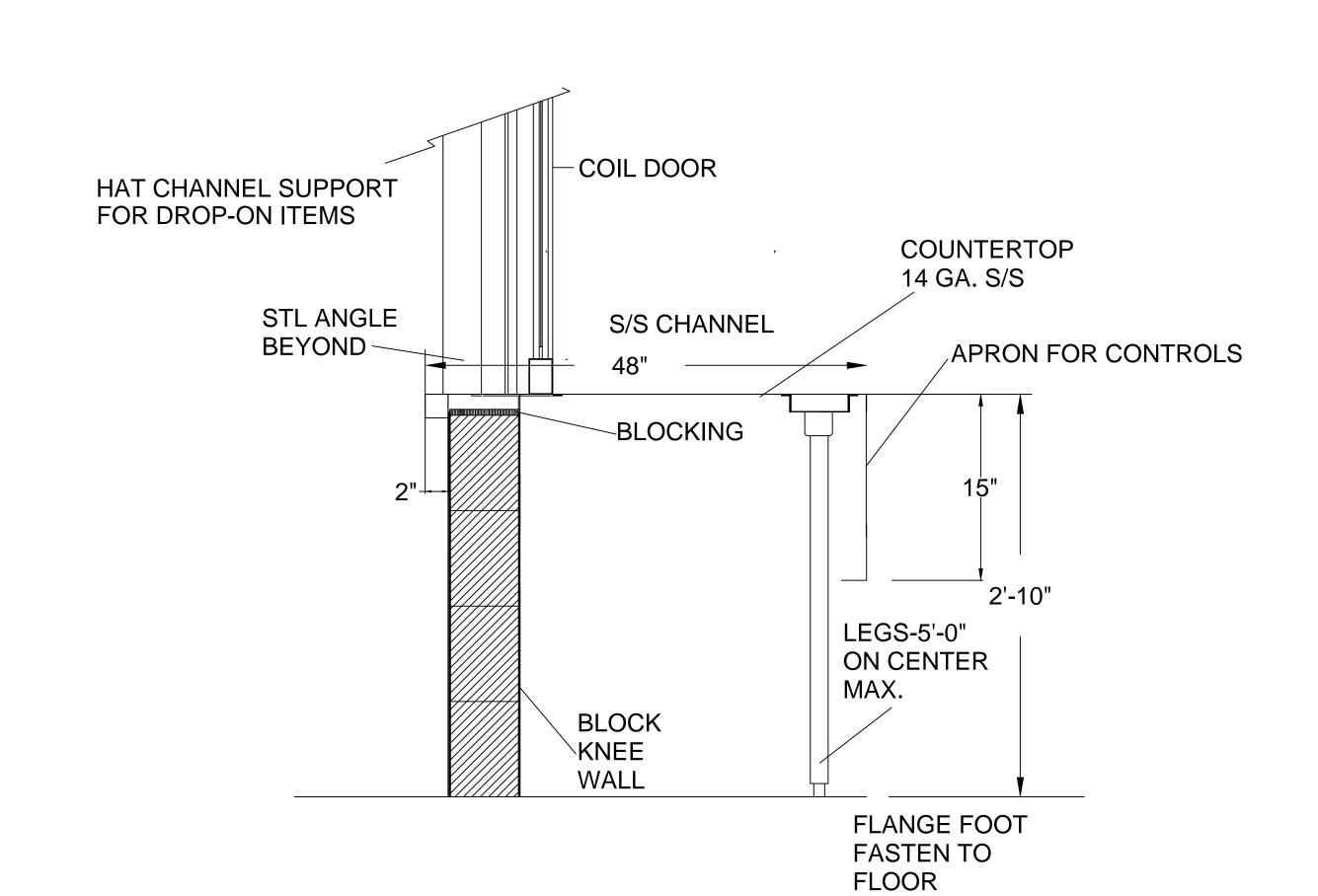
A. REINFORCE WALLS AND CEILING AS REQUIRED TO SUPPORT EQUIPMENT (DOES NOT APPLY TO MASONRY WALLS).

B-F. NOT USED.

G. PROVIDE 1" EMPTY EMT FOR INTERWIRING OF CASH REGISTERS, POINT-OF-SALE SYSTEMS AND SIMILAR EQUIPMENT TO CENTRAL POINT.

H-K. NOT USED.

L. OMIT FINISHED CEILING AT EXHAUST HOODS AND OVER WALKINS.



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- KITCHEN EQUIPMENT CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS.

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Civil Consultants
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(815) 484-4300

No. Description Date

A

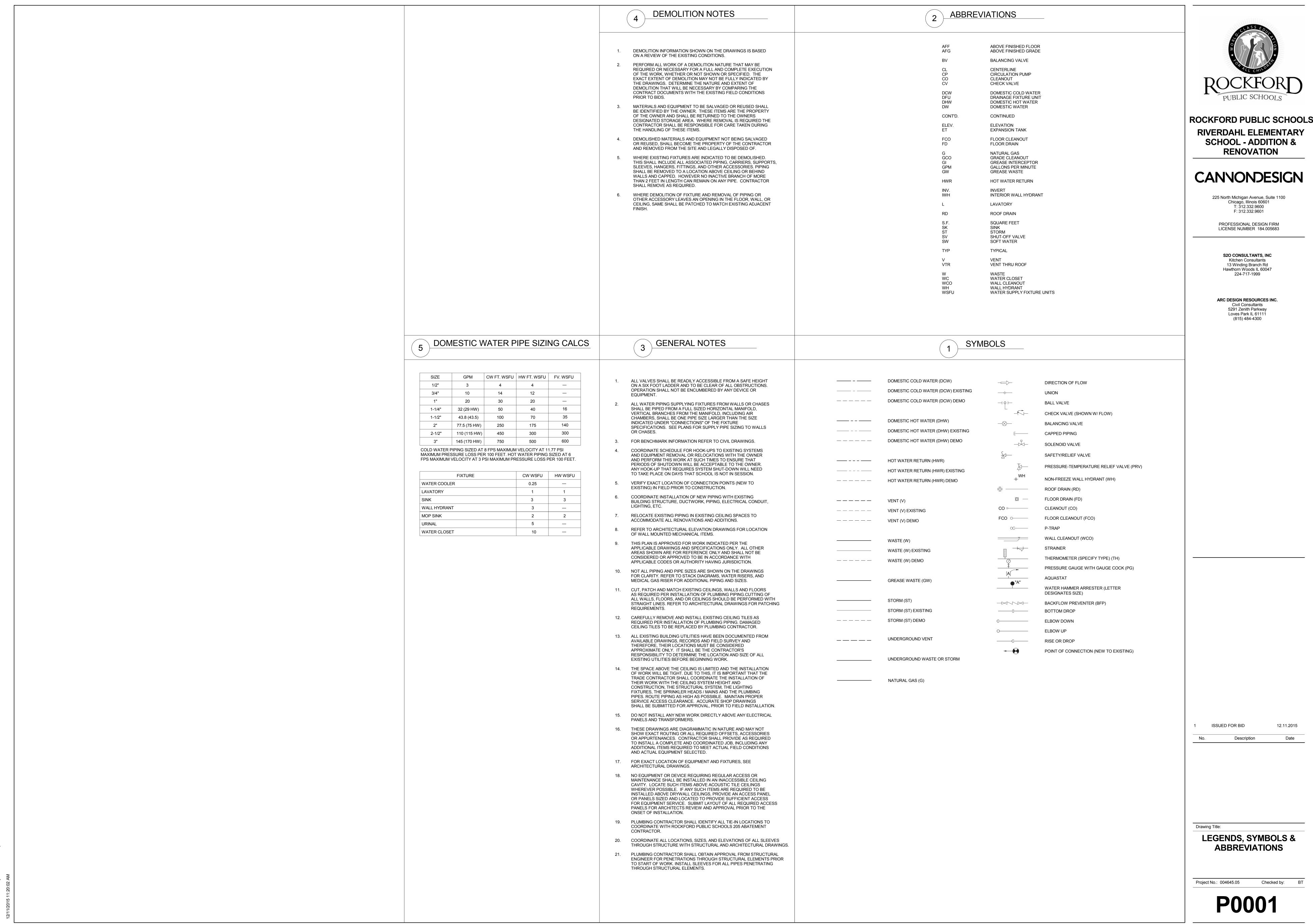
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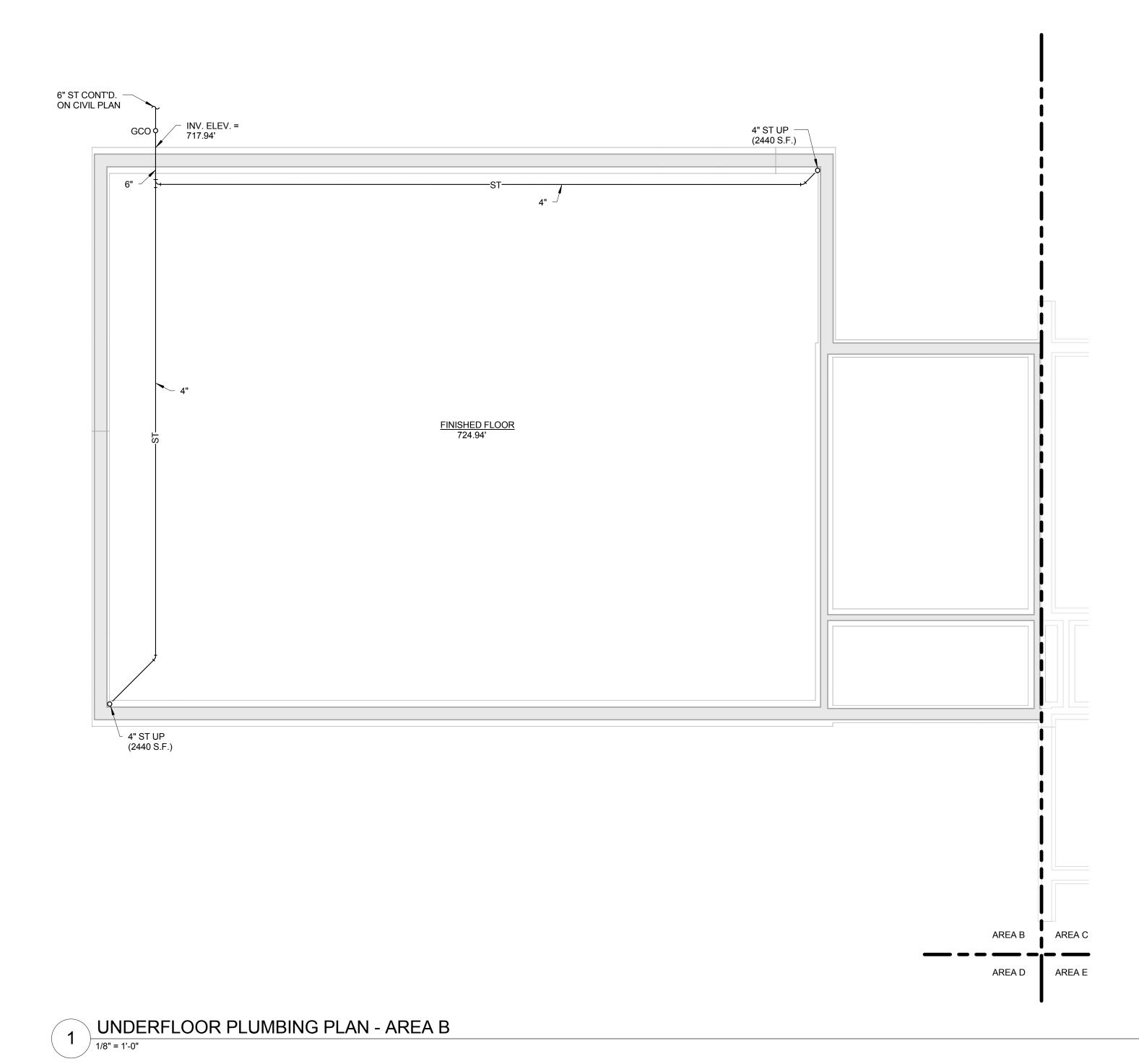
ISSUED FOR BID

FOODSERVICE SPECIAL CONDITIONS PLAN

Project No.: 004645.05 Checked by: Chec

FS101SC





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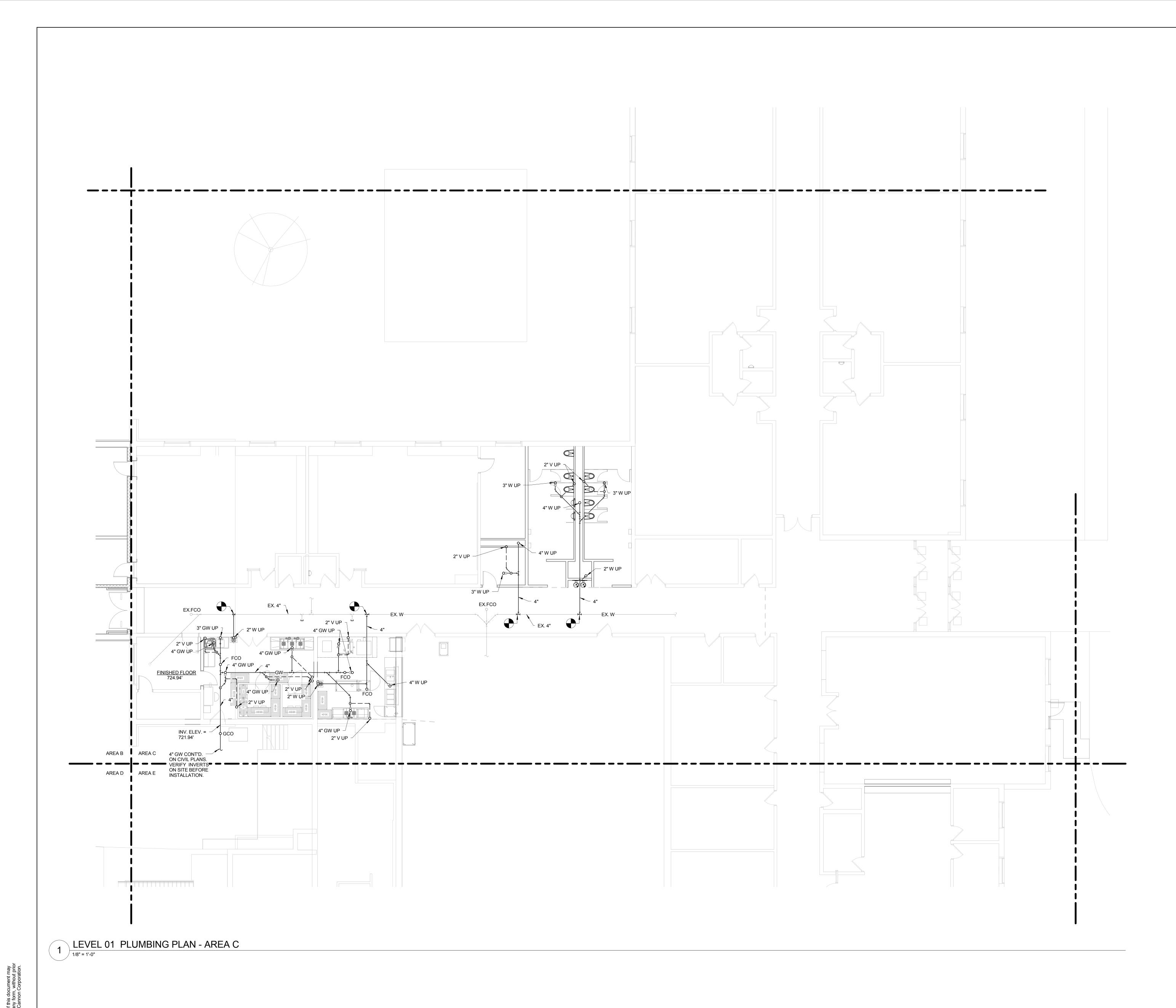
Drawing Title:

UNDERFLOOR PLUMBING

UNDERFLOOR PLUMBING PLAN - AREA B

Project No.: 004645.05 Checke

P0100.B





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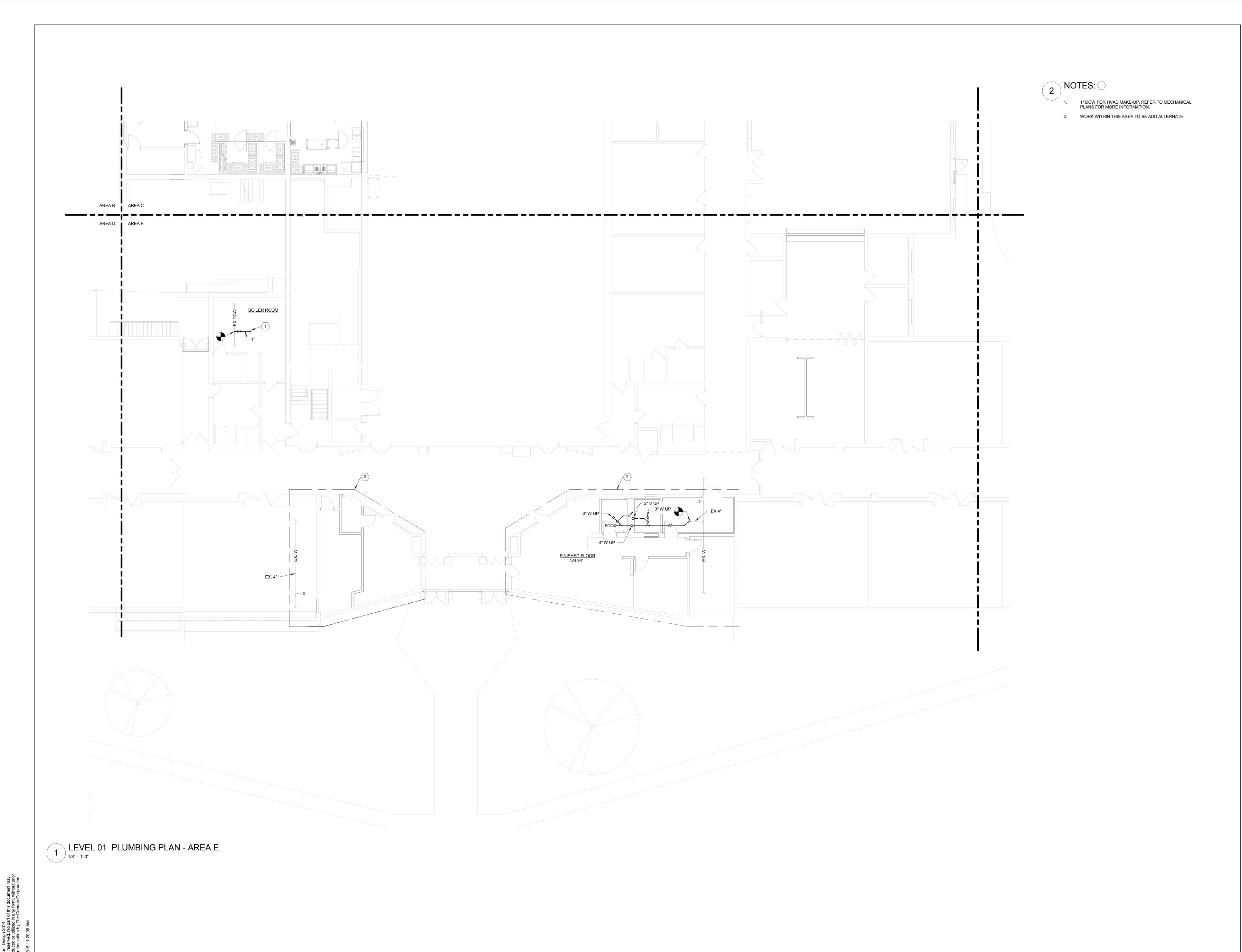
No. Description

A B

UNDERFLOOR PLUMBING
PLAN - AREA C

Project No.: 004645.05

P0100.C





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B
C
Drawing Title:

UNDERFLOOR PLUMBING PLAN - AREA E

Project No.: 004645.05 Checked

P0100.E

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1. PROVIDE CLEANOUT AT BASE OF RISER.

2. PIPING TO BE RUN UP IN JOIST SPACE. PROVIDE PVC JACKETING OVER INSULATION ON ANY EXPOSED PIPING.



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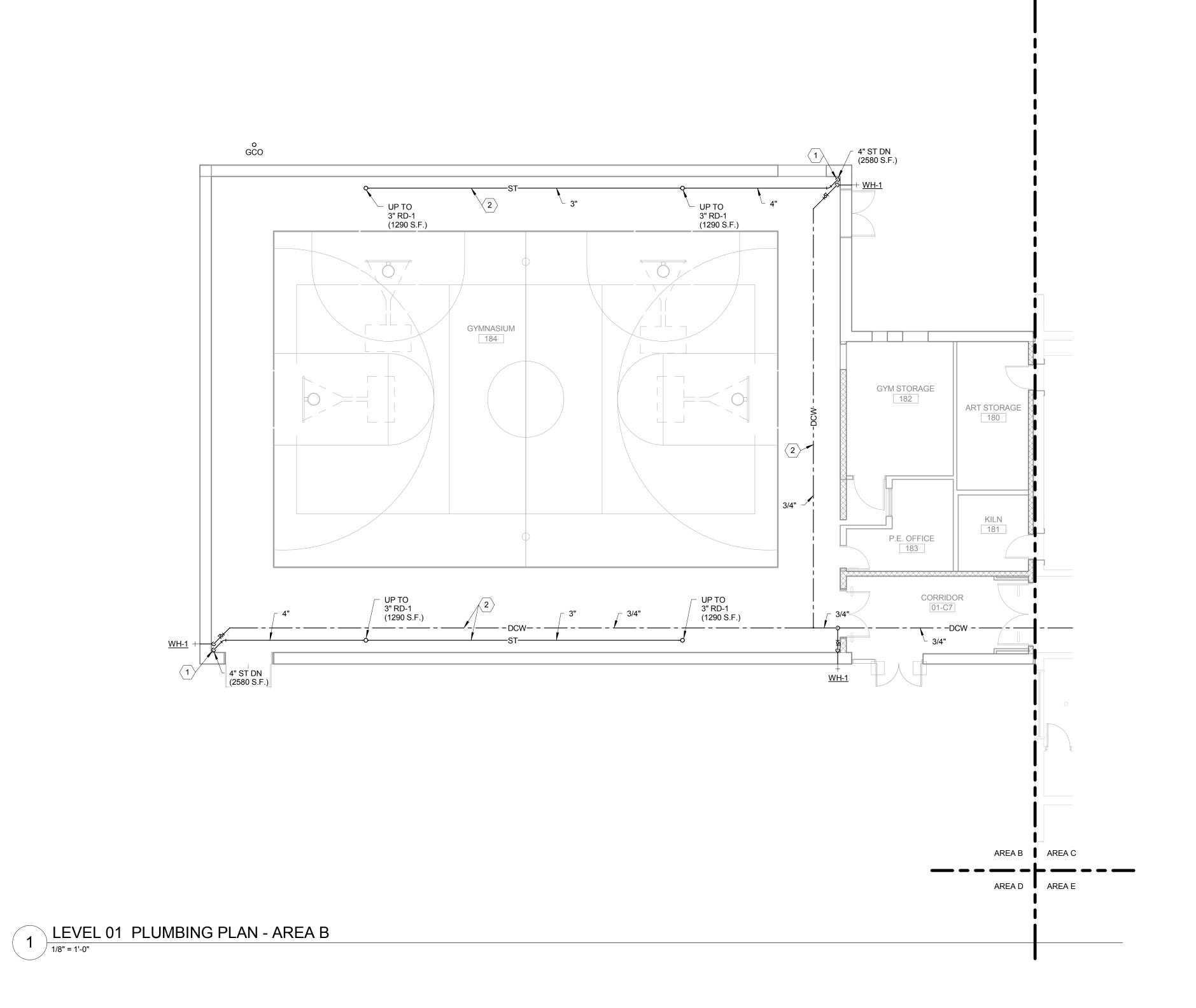
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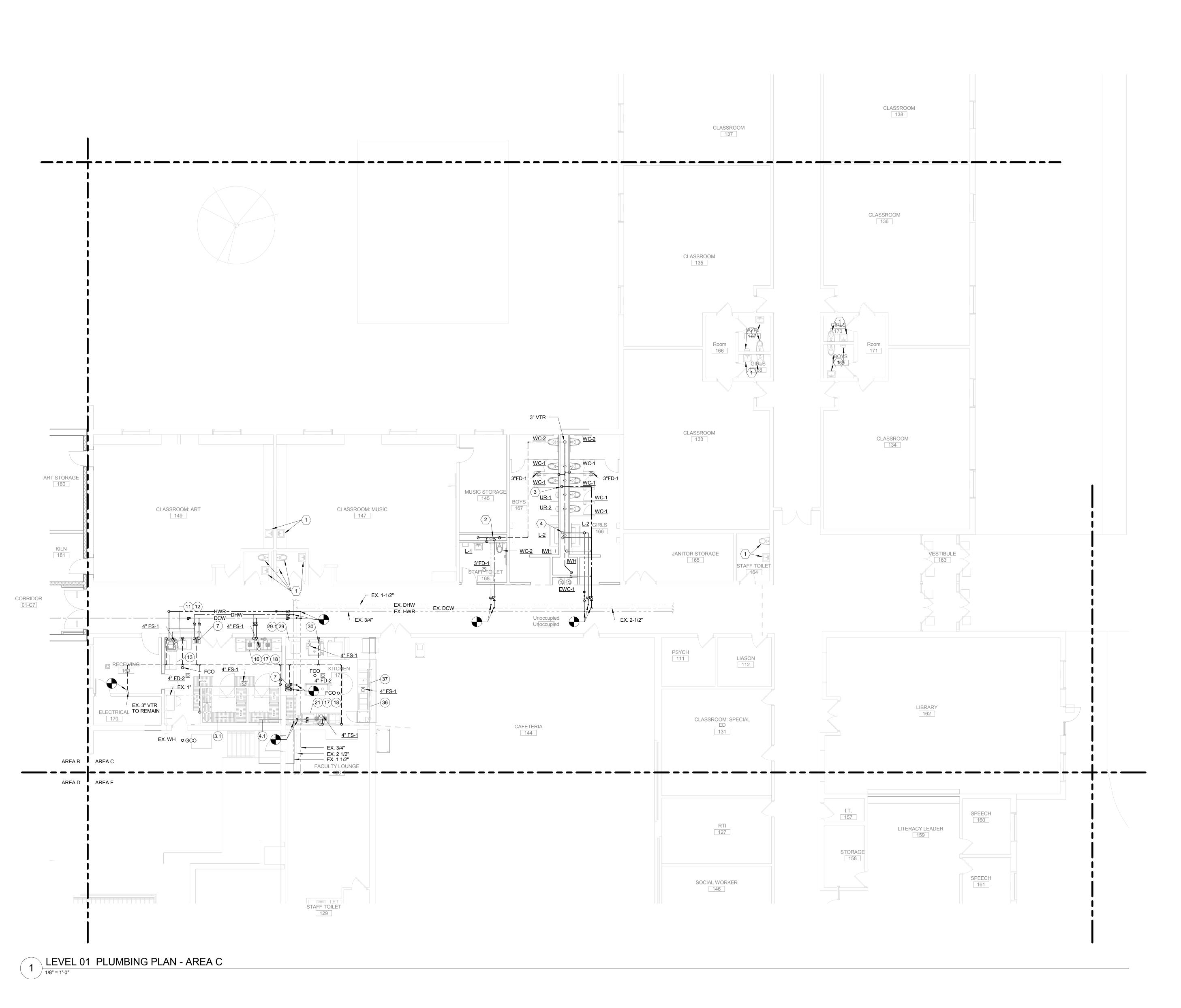
No. Description Date

Drawing Title:

LEVEL 01 PLUMBING PLAN - AREA B

oject No.: 004645.05 Checked by:

P0101.B



- EXISTING PLUMBING FIXTURE TO REMAIN.
- DROP 1-1/4" DCW AND 1/2" DHW DN IN CHASE. BRANCH AND CONNECT 1-1/4" DCW TO WC AND 1/2" DCW AND 1/2" DHW TO LAV.
- 3. DROP 2" DCW DN IN CHASE. BRANCH AND CONNECT 1-1/4" DCW TO EACH WC (8) AND 1" DCW TO EACH
- 4. DROP 3/4" DCW AND 3/4" DHW DN IN CHASE. BRANCH AND CONNECT 1/2" DCW AND 1/2" DHW TO EACH LAV (4).

KITCHEN EQUIPMENT NOTES

\*\* REFER TO KITCHEN CONSULTANT DRAWING FS101M FOR KITCHEN EQUIPMENT CONNECTION REQUIREMENTS. PLUMBING CONTRACTOR SHALL MAKE ALL SANITARY SEWER AND WATER CONNECTIONS REQUIRED FOR KITCHEN.

- 03.1. EVAPORATOR COIL 04.1. EVAPORATOR COIL - WALK-IN FREEZER
- 07. HAND SINK
- 11. GARBAGE DISPOSER
- 12. PRE-RINSE FAUCET
- 13. WAREWASHER 16. THREE COMPARTMENT SCULLERY SINK
- 17. FAUCET 18. LEVER DRAIN
- 21. PREP TABLE W/ SINK
- 29. COMBINATION OVEN-STEAMER
- 30. TILT SKILLET
- 36. HOT WELL DROP-IN
- 37. HOT/COLD UNIT DROP-IN

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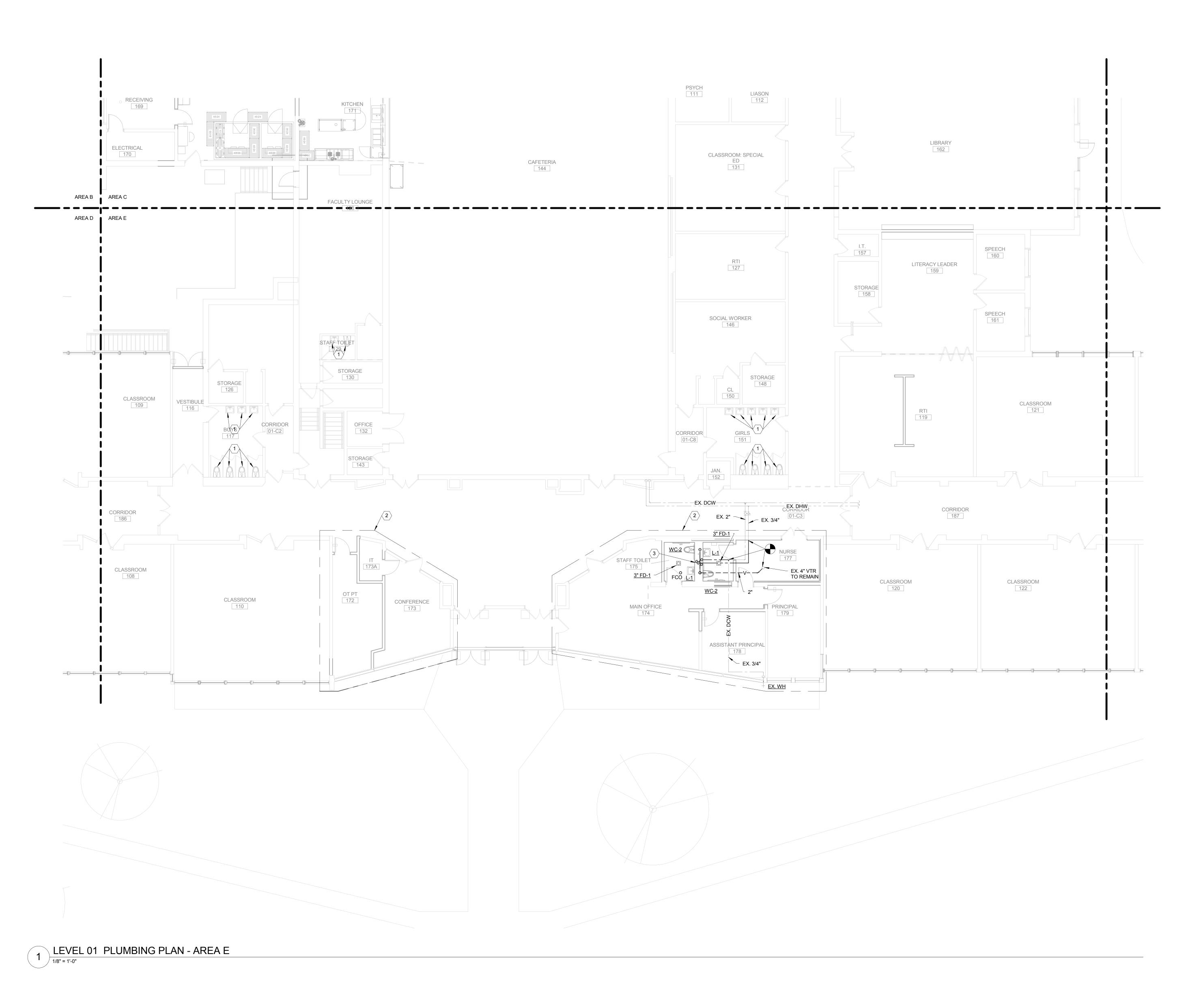
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1 ISSUED FOR BID Description **LEVEL 01 PLUMBING** 

PLAN - AREA C

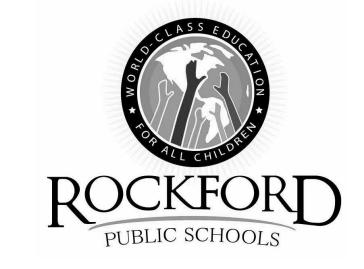
Project No.: 004645.05

P0101.C





- 1. EXISTING PLUMBING FIXTURE TO REMAIN.
  - 2. WORK WITHIN THIS AREA TO BE ADD ALTERNATE.
  - 3. DROP 1-1/2" DCW AND 1/2" DHW DN IN CHASE.
    BRANCH AND CONNECT 1-1/4" DCW TO EACH WC (2)
    & 1/2" DCW AND 1/2" DHW TO EACH LAV (2).



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B
C
Drawing Title:

LEVEL 01 PLUMBING PLAN - AREA E

P0101.E



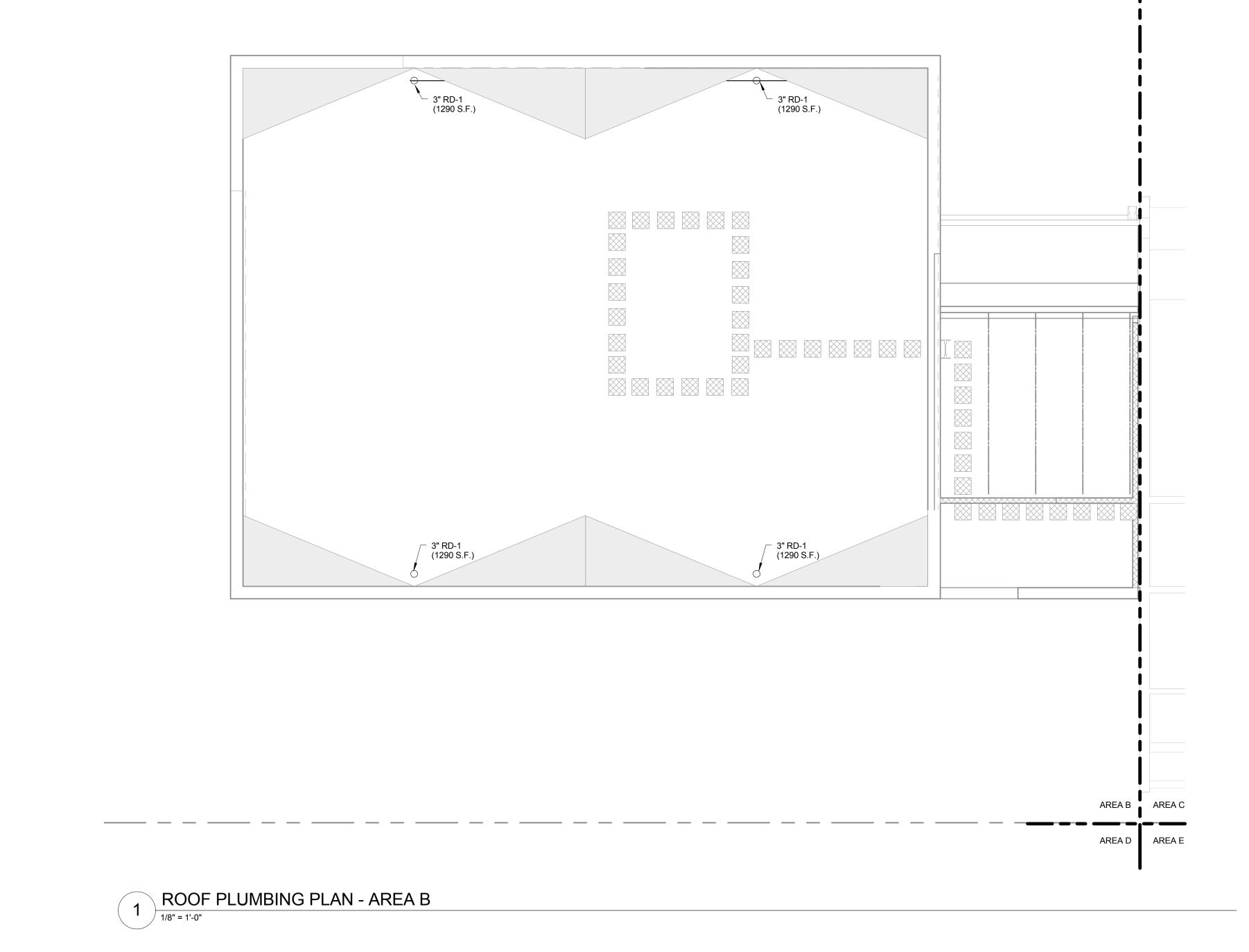
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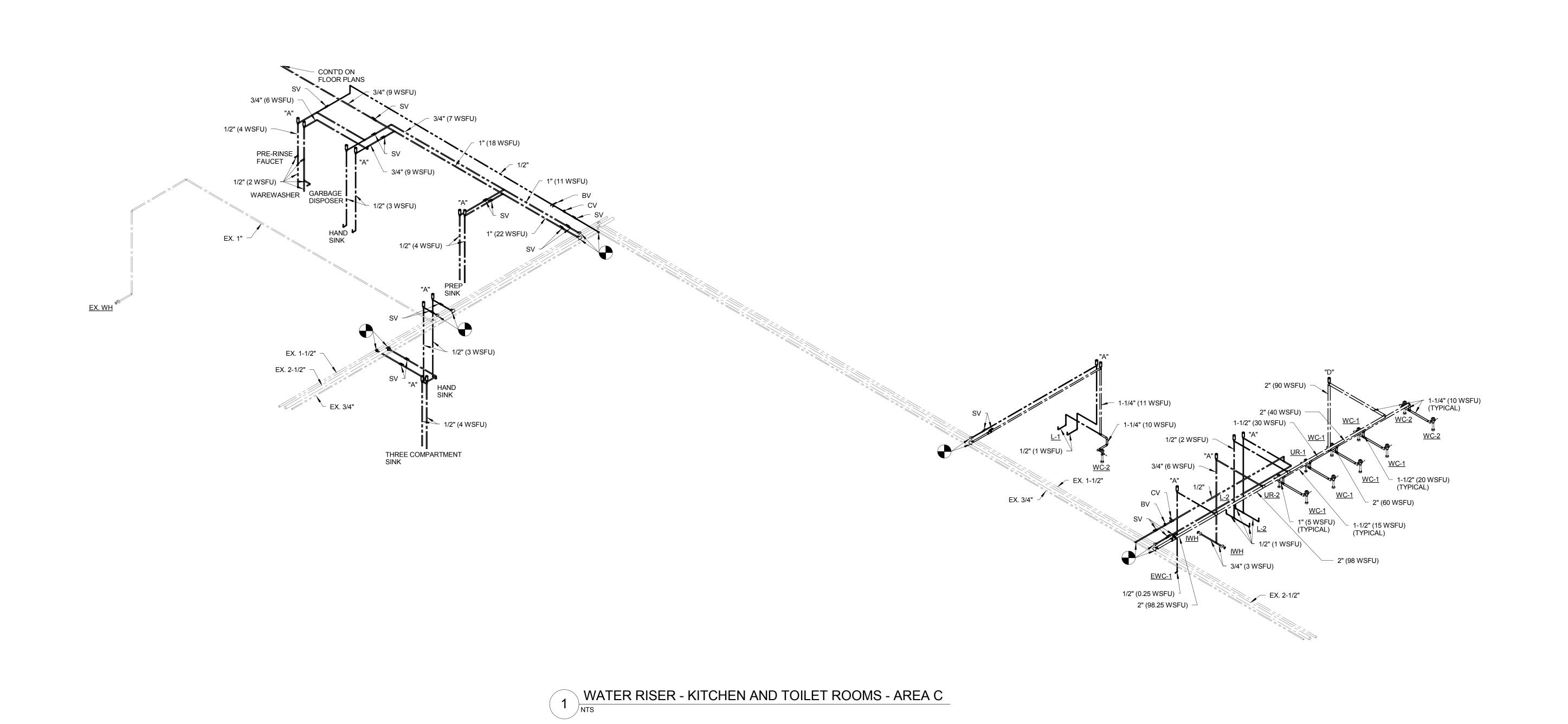
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Description ROOF PLUMBING PLAN -AREA B

P0102.B



12" (2 WSFU) - EX. 34"

112" (1 WSFU) - 1-14" (10 WSFU)

1-114" (10 WSFU) - 1-14" (11 WSFU)

EX. 34"

EX. 34"

EX. 34"

WATER RISER - TOILET ROOMS - AREA E



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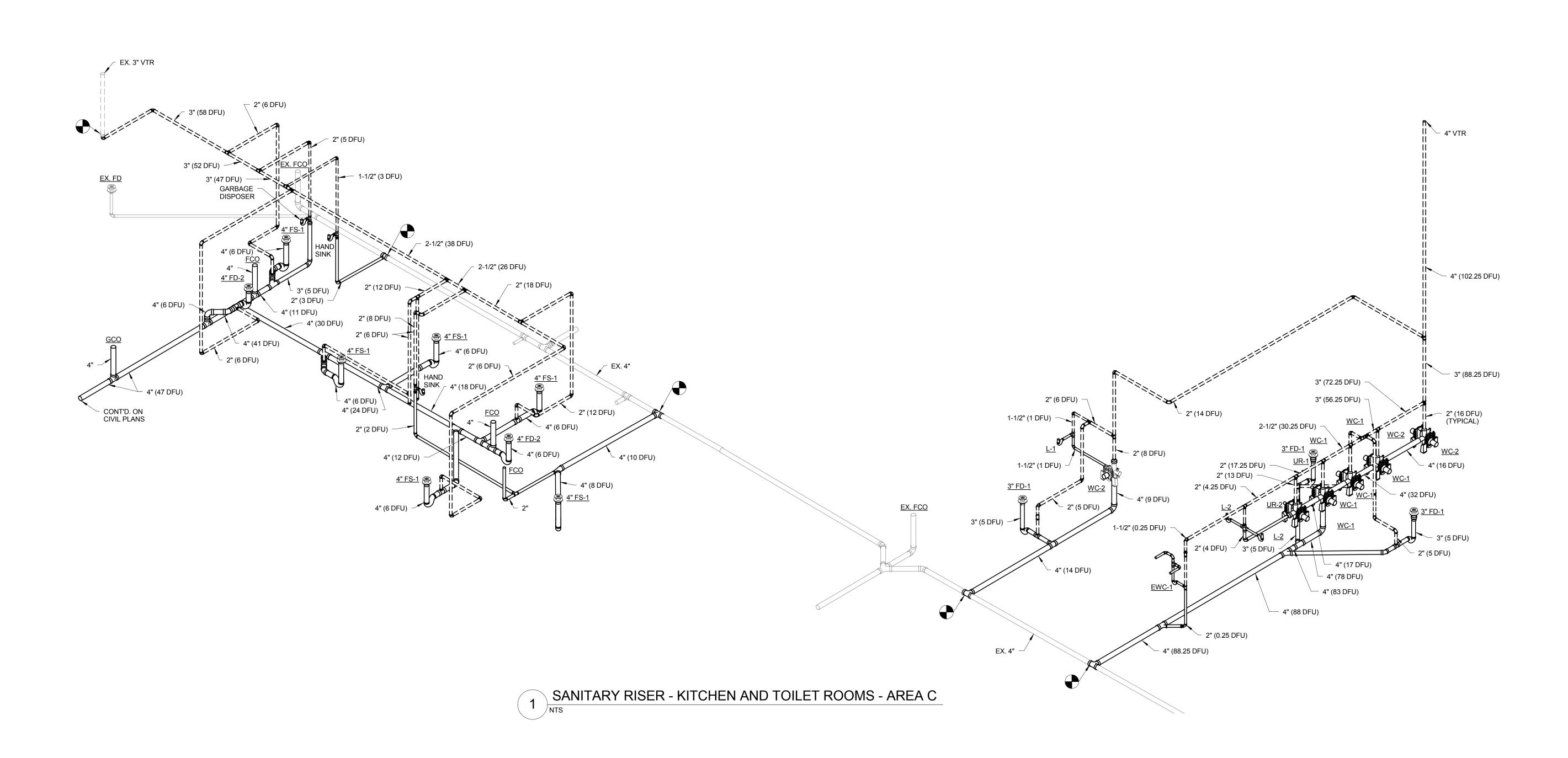
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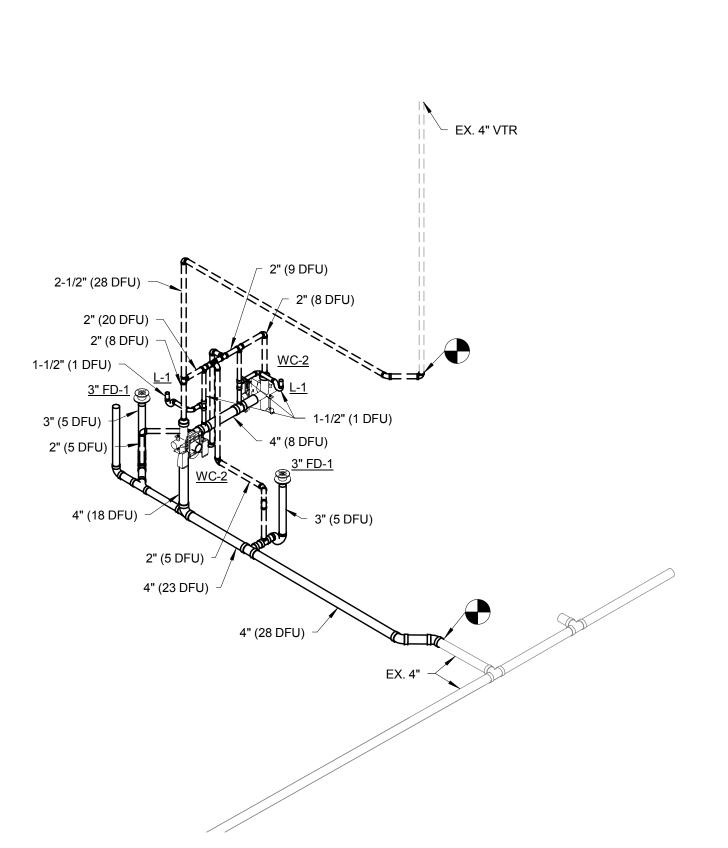
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WATER RISER DIAGRAMS

Project No.: 004645.05

P0401





2 SANITARY RISER - TOILET ROOMS - AREA E



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Drawing Title:

SANITARY RISER DIAGRAMS

Description

Project No.: 004645.05

P0402

Date

								PLUMBIN	G FIXTURI	E SCHED	ULE											SECTION 224	4000
T4.0	ENTURE TYPE	454	F	IXTURE	FAU	JCET OR FLUSH VALVE		P-TRAI	<b>D</b>	DRA	IN	,	SUPPLIES	S	EAT		ROUG	GH-IN		CA	ARRIER	MOUNTING	NOTES
TAG	FIXTURE TYPE	ADA	MANU	MODEL	MANU	MODEL	FLOWRATE	MANU	MODEL	MANU	MODEL	MANU	MODEL	MANU	MODEL	W [IN]	V [IN]	CW [IN]	HW [IN]	MAKE	MODEL	MOUNTING	NOTES
WC-1	WATER CLOSET	-	KOHLER	K-4325	SLOAN	8111-1.28	1.28 GPF	INTEGRAL TO UNIT						BEMIS	2155SSCT	4	2	1 1/4	-	ZURN	Z1200 SERIES	WALL HUNG	2, 10
WC-2	WATER CLOSET	YES	KOHLER	K-4325	SLOAN	8111-1.28	1.28 GPF	INTEGRAL TO UNIT						BEMIS	2155SSCT	4	2	1 1/4	-	ZURN	Z1200 SERIES	WALL HUNG	2, 3, 10
L-1	LAVATORY	YES	KOHLER	K-2005	CHICAGO	116.606.AB.1	0.5 GPM	ZURN	Z8702-15-PC	ZURN	Z8743-PC	ZURN	ZH8820LKQ-PC			1 1/2	1 1/2	1/2	1/2			WALL HUNG	2, 4, 1, 10
L-2	LAVATORY	YES	BRADLEY	MG-2			0.5 GPM	ZURN	Z8702-15-PC							1 1/2	1 1/2	1/2	1/2			WALL HUNG	2, 4, 1, 10
UR-1	URINAL	-	KOHLER	K-4972	SLOAN	186-1 HW	1.0 GPF	INTEGRAL TO UNIT								2	1 1/2	3/4	-	ZURN	Z1200 SERIES	WALL HUNG	2, 3, 10, 11
UR-2	URINAL	YES	KOHLER	K-4972	SLOAN	186-1 HW	1.0 GPF	INTEGRAL TO UNIT								2	1 1/2	3/4	-	ZURN	Z1200 SERIES	WALL HUNG	2, 3, 10, 11
EWC-1	ELECTRIC WATER COOLER	YES	ELKAY	LZTL8LC				ZURN	Z8702-15-PC							1 1/2	1 1/2	1/2				RECESSED	3, 5
WH-1	WALL HYDRANT	-	WOODFORD	MB65			5 GPM									-	-	3/4	-			CL = +/- 24" AFG	6, 7, 8, 9
IWH	INTERIOR WALL HYDRANT	-	WOODFORD	76			5 GPM									-	_	3/4	-				8, 9

NOTES: 1 - WITH LOOSE KEY

2 - PROVIDE WHITE COLOR

3 - INSTALL PER ADA STANDARDS 4 - SINGLE HOLE, BATTERY POWERED FAUCET

5 - MOUNTING HEIGHT TO BE SUITABLE FOR K-3 STUDENTS, REFER TO ARCHITECTURAL ELEVATIONS.

6 - INSTALL RIM OF BOX TO MATCH TOP SIDE OF BRICK/BLOCK COARSING. 7 - INSTALL ALL WEATHER CAULKING AROUND SIDES IN CONTACT WITH WALL - COLOR GRAY

8 - SPEC SECTION 221119

9 - WITH LOOSE KEY AND VACUUM BREAKER 10 - INSTALL CLEAR NON-MOLDING SILICONE CAULK WHERE FIXTURE IS IN CONTACT WITH FLOOR OR WALLS.

11 - CONNECT FLUSH VALVE SOLENOID TO JACE BUILDING CONTROL PANEL, SEE CONTROL NETWORK/LON TRUNK RISER SCHEMATIC ON M0601 FOR MORE INFORMATION. FLUSH VALVE FLUSH FREQUENCY TO BE EVERY 10 MINUTES DURING THE SCHOOL DAY.

				DRAIN SCH	EDULE					SECTION 221319
TAG	MANUFACTURER	MODEL	SERVICE	BODY MATL	OUTLET		STRAINER	OD	TIONS	NOTES
IAG	MANUFACTURER	WIODEL	SERVICE	BODT WATE	[IN]	SIZE [IN]	FINISH	UP	TIONS	NOTES
FCO	ZURN	ZN1400	SANITARY	CAST IRON	VARIES*	VARIES	NICKEL BRONZE	-	-	ROUND COVER
FD-1	ZURN	Z-415	SANITARY	CAST IRON	VARIES*	5	NICKEL BRONZE	-	-	ROUND STRAINER
FD-2	ZURN	Z1800	SANITARY	CAST IRON	4	6	STAINLESS	Υ	-	ROUND STRAINER
FS-1	ZURN	Z1750	SANITARY	STAINLESS	4	12	STAINLESS	Υ	-	SQUARE STRAINER, 3/4 GRATE
RD-1	ZURN	Z100	STORM	CAST IRON	VARIES*	-	-	VD	-	-
NOTES	* REFER TO PLANS FO	R SIZES			•	•			•	

PIPE IDEN	TIFICAT	ION SCH	IEDULI	Ξ	SECTION 220553
SERVICE	BAND COLOR	TEXT COLOR	T	AGGING SPECII	FICATIONS
SERVICE	BAND COLOR	TEXT COLOR	PIPE SIZE	MIN. LENGTH	TEXT HEIGHT
DOMESTIC COLD WATER	GREEN	WHITE	1/2" - 3"	8"	1/2"
DOMESTIC HOT WATER	YELLOW	BLACK	1/2" - 2"	8"	3/4"
HOT WATER RETURN	YELLOW	BLACK	1/2" - 2"	12"	1 1/4"
SANITARY SEWER	GREEN	WHITE	1-1/2" - 4"	32"	3 1/2"
STORM SEWER	GREEN	WHITE			
CONDENSATE DRAIN	GREEN	WHITE			
VENT	GREEN	WHITE			

LOCATE PIPE IDENTIFICATION AS FOLLOWS:

 WITHIN 1'-6" OF EACH VALVE. WITHIN 3'-0" OF EACH 90 DEGREE ELBOW, CONNECTION TO EQUIPMENT OR VESSELS, POINT WHERE PIPE ENTERS SHAFTS OR PENETRATES OUTSIDE WALLS.

ON NOT OVER 20'-0" INTERVALS ALONG ALL PIPING (EXPOSED AND CONCEALED).
AT TEES WITHIN 3'-0" OF BOTH MAIN AND BRANCH.

FOR AREAS OF MULTIPLE 90 DEGREE ELBOWS OR TEES CONSULT PROJECT ENGINEER FOR PLACEMENT.

WHERE NEW PIPING MEETS EXISTING, PLACE ONE ADDITIONAL LABEL ON EXISTING PIPING AS SPECIFIED IN ITEMS 1 THRU 5.

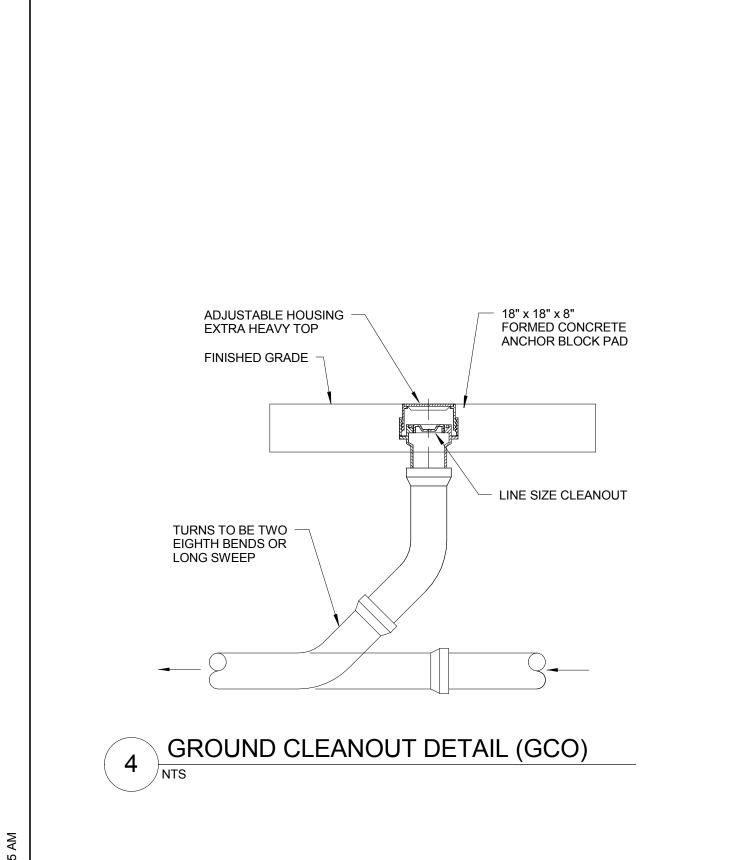
INSTALL BURIED PIPE LABELS CONTINUOUS AND 12" BELOW FINISHED GRADE. INSTALL "NON-POTABLE" LABELS WITHIN 3'-0" OF BACKFLOW PREVENTOR.

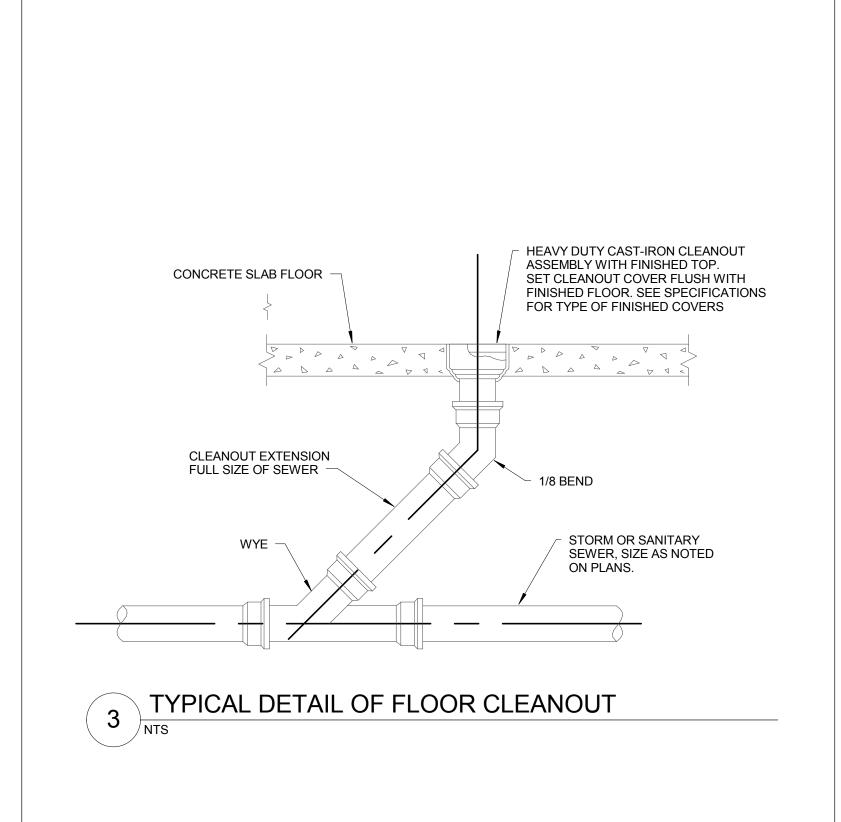
STENCILING WILL NOT BE ALLOWED.

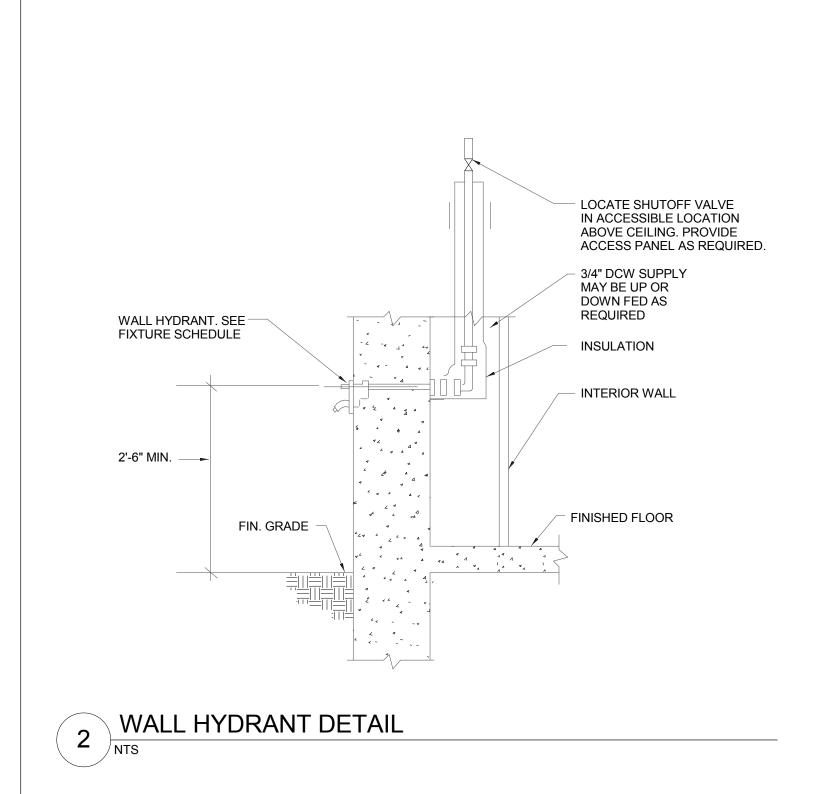
PIPE INSULATIO	SECTION 220700		
SERVICE	PIPE SIZE	INSULATION THICKNESS	NOTES
DOMESTIC HOT WATER	UP TO 2"	1 1/2"	-
DOMESTIC HOT WATER RETURN	UP TO 2"	1 1/2"	-
DOMESTIC COLD WATER	ALL	1"	-
ROOF DRAIN BODIES	ALL	1"	-
HORIZONTAL RAIN CONDUCTORS	ALL	1"	-
CONDENSATE (CLEARWATER WASTE)	ALL	1/2"	-
SANITARY VENT	ALL	1"	WITHIN 10' OF VTR

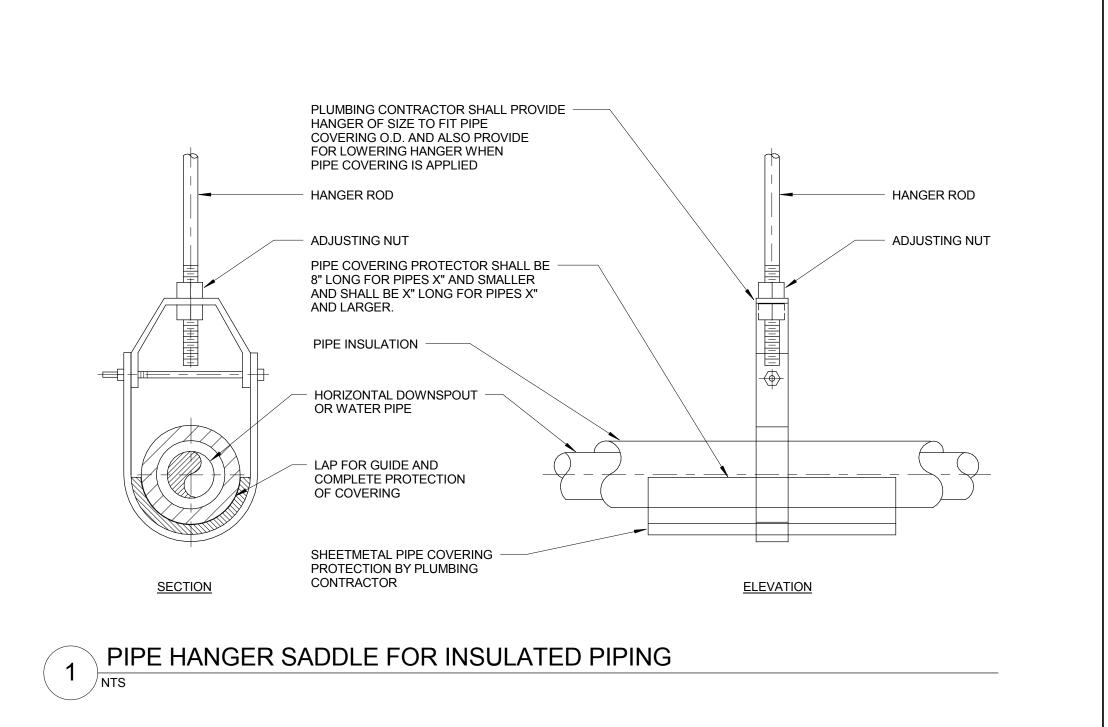
WATER HAMMER ARRESTOR SCHEDULE								
P.D.I. SYMBOL	FIXTURE UNITS	SIZE						
"A"	1-11	1/2"						
"B"	12-32	3/4"						
"C"	33-60	1"						
"D"	61-113	1"						
ACH FIXTURE RECEIVING HOT AND C	OLD WATER SHALL BE FITTED WITH	A PRE-CHARGED SHOCK						

ARRESTOR SUITABLE FOR OPERATION IN THE 100°F TO 300°F TEMPERATURE RANGE AND 250 PSIG WORKING PRESSURE AND SAME SIZE AS FIXTURE SUPPLY PIPE. ARRESTOR SHALL BE IN ACCORDANCE WITH ANSI A112.26.1, AND SHALL BE SIZED IN ACCORDANCE WITH PDI MANUAL WH-201.











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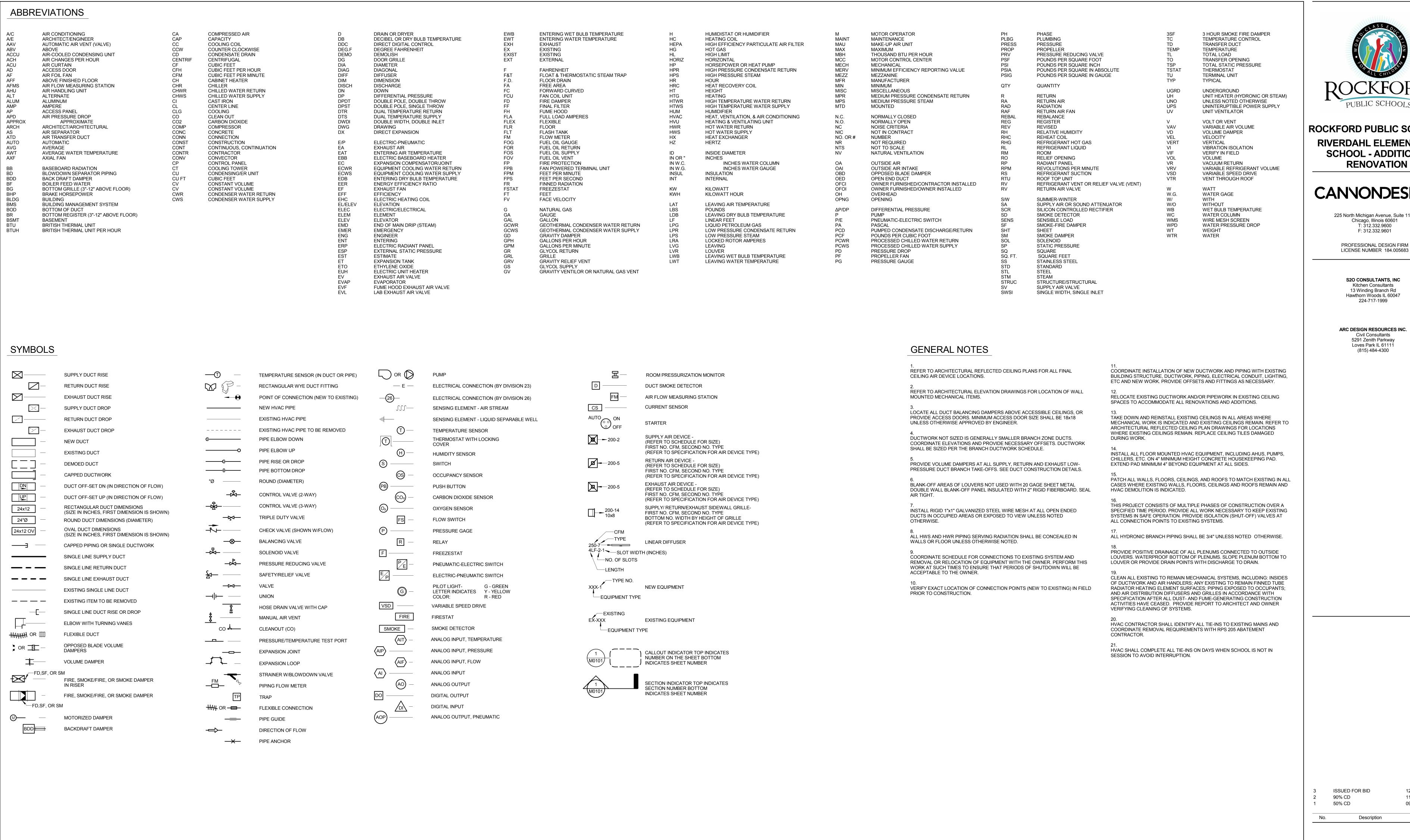
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Drawing Title: PLUMBING SCHEDULES AND DETAILS

Project No.: 004645.05

P0501



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Drawing Title:

SYMBOLS, ABBREVIATIONS, AND **GENERAL NOTES** 

12/11/2015 11.20.2015

09.25.2015

Date

#### **GENERAL NEW DUCTWORK NOTES**

ALL EXHAUST DUCTWORK SERVING DOMESTIC WATER HEATERS IN BOILER ROOM IS TO REMAIN TO AS GREAT AN EXTENT AS POSSIBLE. REPAIR ANY DAMAGE CAUSED BY RENOVATION ACTIVITIES AND EXTEND TO NEW EXHAUST FLUES.

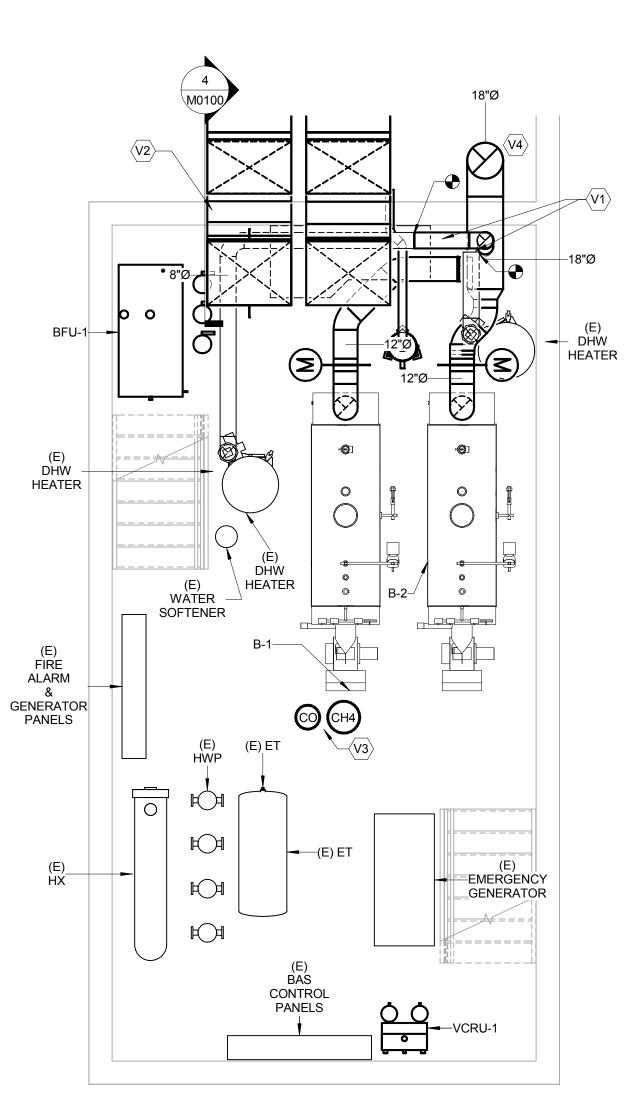
#### KEYED NEW DUCTWORK NOTES :

V1.
CONNECT EXISTING DHW HEATER EXHAUST DUCTS TO NEW FLUE BEFORE FLUE ENTERS CHIMNEY.

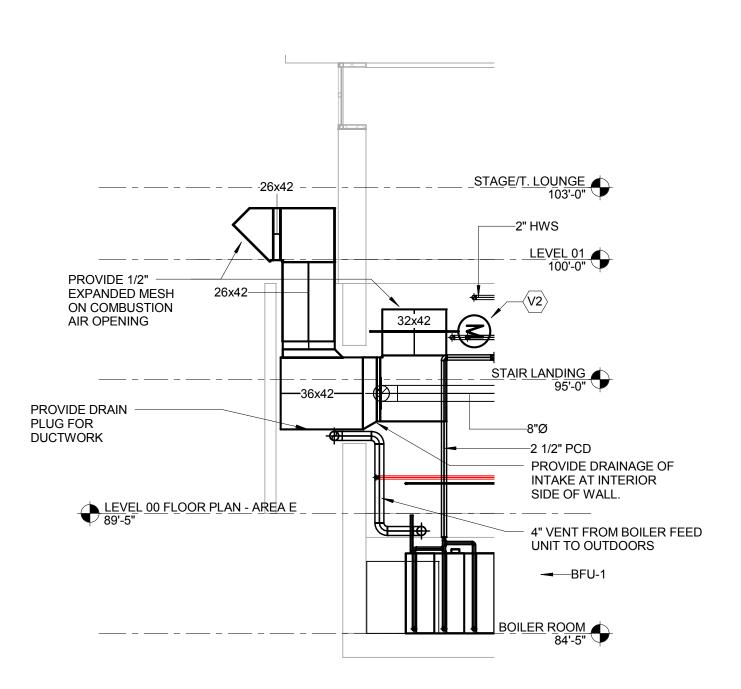
V2.
PROVIDE NEW MOTORIZED CONTROL DAMPER ON DUCTWORK. TIE DAMPER OPERATION TO
BOILER OPERATION TO OPEN WHENEVER ONE OR MORE FUEL BURNING DEVICE(S) ARE

V3.
PROVIDE NEW CARBON MONOXIDE AND METHANE SENSORS ON CEILING. PROVIDE SUFFICIENT NUMBER OF SENSORS SO ALL FUEL BURNING APPLIANCES ARE WITHIN 20'0" OF SENSOR(S). SENSORS TO BE HARDWIRED TO BAS, GAS SHUTOFF, ELECTRICAL, AND FIRE ALARM SYSTEMS

V4. NEW EXHAUST FLUE UP TO ROOF IN EXISITNG TO REMAIN CHIMNEY.



BOILER ROOM HVAC NEW WORK - DUCTWORK



## COMBUSTION INTAKE DUCT SECTION (TYP OF 2)

#### **GENERAL NEW PIPING WORK NOTES**

FLUSH AND CLEAN STEAM PIPING SYSTEM AT END OF PROJECT TO REMOVE BUILDUP AND SCALING.

CLEAN ALL PIPING AND EQUIPMENT WITHIN BOILER ROOM AT END OF PROJECT.

3.
KEEP AS MUCH EXISTING STEAM SUPPLY AND CONDENSATE RETURN PIPING AS POSSIBLE. RECONNECT TO EXISTING PIPING AT POINTS INDICATED, AND RE-INSULATE ALL EXPOSED HW, STEAM, AND CONDENSATE RETURN PIPING IN BOILER ROOM.

4.
BOILER FEED AND VACUUM CONDENSATE UNIT PUMPS ARE INTEGRATED WITH UNITS.

SOME HWS/R, DCW, DHW, DHWR PIPING THAT IS NOT TO BE AFFECTED BY WORK IN BOILER ROOM IS NOT SHOWN FOR CLARITY OF THE NEW WORK.

6.
FOR ALL CONNECTIONS TO NEW STEAM HEADER, PROVIDE A NEW SHUTOFF VALVE IN ACCORDANCE TO SPECIFICATION.

#### KEYED NEW PIPING WORK NOTES (P#) :

P1.
ROUTE MAKEUP WATER PIPING UP TO OVERHEAD SPACE TO MAINTAIN A CLEAR ACCESS PATH
TO ELECTRICAL SWITCHGEAR, DHW HEATER, AND EXHAUST DAMPERS.

P2.
ROUTE NEW PUMPED CONDENSATE RETURN PIPING TO NEW BOILER FEED UNIT AS TIGHT TO CEILING AS POSSIBLE.

P3.
EXTEND NEW BOILER MAKEUP WATER PIPING FROM DOWNSTREAM OF RPZ ON DCW LINE TO NEW BOILER FEED UNIT LOCATED UNDER PLATFORM.

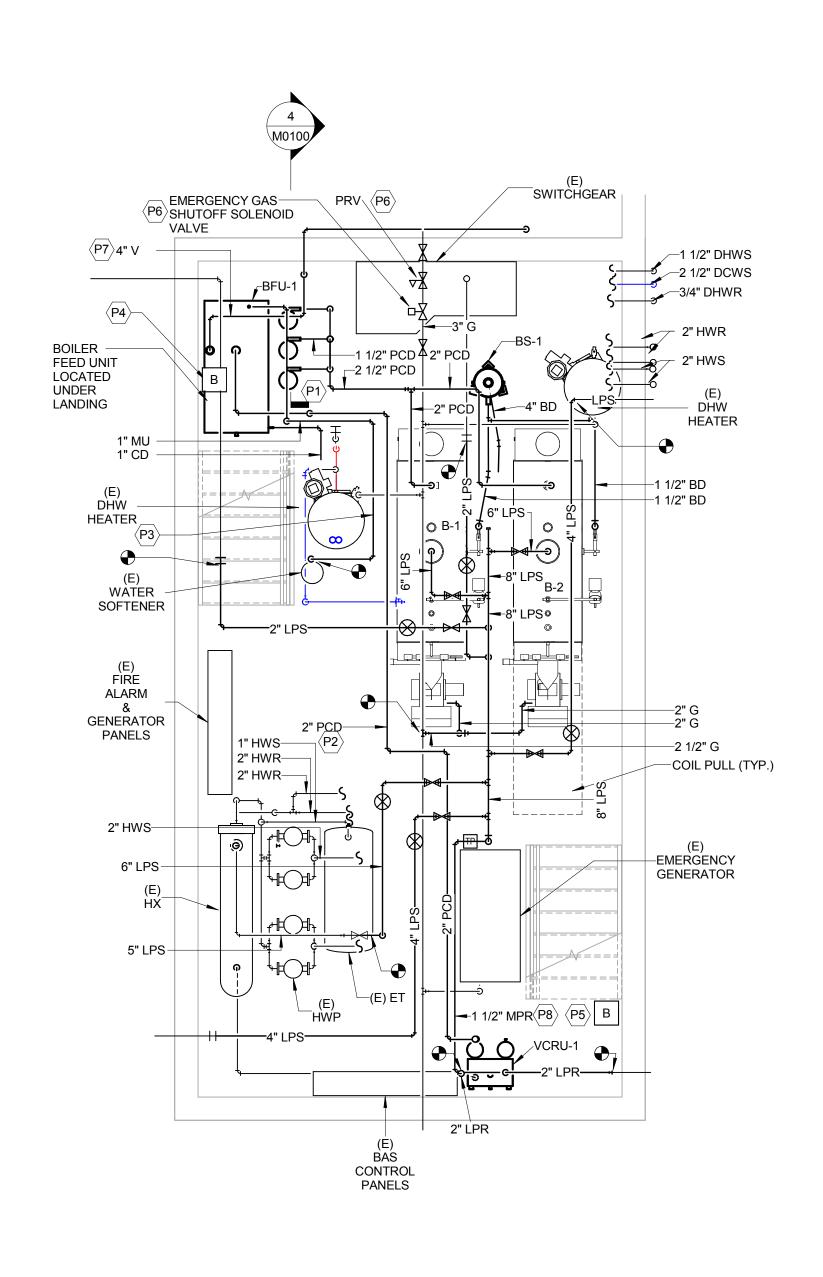
P4.
PROVIDE EMERGENCY GAS SHUTOFF BUTTON TIED TO MAIN BOILER ROOM SHUTOFF SYSTEM.
MOUNT SHUTOFF BUTTON NEXT TO DOOR ABOVE LIGHT SWITCH. GAS SHUTOFF BUTTON SHALL
BE PROVIDED BY SAME MANUFACTURER GAS SYSTEM CONTROL PANEL NOTED IN P5.

PROVIDE BOILER ROOM GAS SYSTEM CONTROL BOX AND MOUNT NEXT TO DOOR. SYSTEM SHALL BE AMERICAN GAS SAFETY MERLIN GSP2 WITH ACCESSORIES OR APPROVED EQUAL.

P6.
PROVIDE NEW LINE PRESSURE REGULATOR, AUTOMATIC SOLENOID SHUTOFF VALVE, AND MANUAL SHUTOFF VALVE ON EXISTING INCOMING GAS SERVICE LINE UPSTREAM OF ANY EQUIPMENT TAKEOFFS. EXTEND VENT PIPING FROM REGULATOR AND VALVES TO OUTDOORS NEXT TO EXISTING VENT PIPING AND TERMINATE AT LEAST 10' 0" ABOVE NEAREST OUTDOOR AIR INTAKE OR OPERABLE WINDOW.

ROUTE NEW BOILER FEED UNIT VENT PIPING TO OUTSIDE NEXT TO EXISTING TO REMAIN VENT PIPING MOUNTED TO CHIMNEY, TERMINATING AT LEAST 10'0" ABOVE NEAREST OUTDOOR AIR INTAKE OR OPERABLE WINDOW.

P8.
ROUTE STEAM HEADER DRAIN LEG THROUGH STEAM TRAP AND TO VACUUM CONDENSATE RECEIVER INLET PIPING.



# BOILER ROOM HVAC NEW WORK - PIPING

#### **GENERAL DEMOLITION NOTES**

ANY MECHANICAL EQUIPMENT NOT SHOWN OR NOTED FOR DEMOLITION IS EXPECTED TO REMAIN IN PLACE. PROTECT AND CLEAN ALL MECHANICAL EQUIPMENT, PIPNG, DUCTWORK, OR FITTINGS THAT ARE EXISTING TO REMAIN IN AREAS OF WORK, AND REPLACE ANY EQUIPMENT DAMAGED DUE TO CONSTRUCTION ACTIVITIES. PROVIDE WRITTEN REPORT TO OWNER AND ARCHITECT PRIOR TO STARTING WORK DESCRIBING OPERATION STATUS OF ANY MECHANICAL EQUIPMENT THAT IS EXISTING TO REMAIN AT END OF PROJECT.

OWNER TO PERFORM ASBESTOS ABATEMENT ACTIVITIES PRIOR TO COMMENCING WORK. COORDINATE WITH OWNER AND ENVIRONMENTAL CONSULTANTS FOR ANY SUSPECTED ASBESTOS-CONTAINING MATERIAL AND ANY ABATEMENT SCOPE REQUIRED TO COMPLETE WORK SCOPE DESCRIBED IN THESE DRAWINGS. NOTIFY OWNER IN WRITING OF ANY AREAS NEEDING ACM EVALUATION NOT PREVIOUSLY NOTED OR REVIEWED BEFORE STARTING WORK.

BOILER AND VACUUM CONDENSATE RETURN UNIT TO BE DEMOLISHED. FULL EXTENT OF PIPING DEMOLITION REQUIRED TO REMOVE BOILER AND INSTALL NEW EQUIPMENT MAY NOT BE SHOWN. REMOVE AND REINSTALL PIPING, EQUIPMENT, AND STRUCTURES AS REQUIRED TO ACCOMMODATE REPLACEMENT OF BOILER AND CONDENSATE RETURN UNIT AND INSTALLATION OF NEW BOILER FEED UNIT.

REMOVE ALL INSULATION ON HW, STEAM, AND CONDENSATE RETURN PIPING AND HEAT EXCHANGER WITHIN BOILER ROOM AND RE-INSULATE IN ACCORDANCE WITH SPECIFICATION. VISUALLY INSPECT ALL PIPING AND EQUIPMENT WHEN INSULATION IS REMOVED, AND PROVIDE WRITTEN NOTICE TO ARCHITECT WHEN ALL INSULATION IS REMOVED. CONTRACTOR AND ENGINEER TO DEVELOP A DEFICIENCIES LIST TO PROVIDE TO OWNER OF ANY PIPING THAT MAY REQUIRE REPLACEMENT.

BEFORE DISCARDING ANY DEMOLISHED OR REMOVED EQUIPMENT, VERIFY WITH OWNER IF ANY EQUIPMENT OR MATERIALS ARE TO BE SALVAGED. RELOCATE ANY SALVAGED EQUIPMENT TO OWNER'S DESIGNATED OFFSITE STORAGE FACILITY.

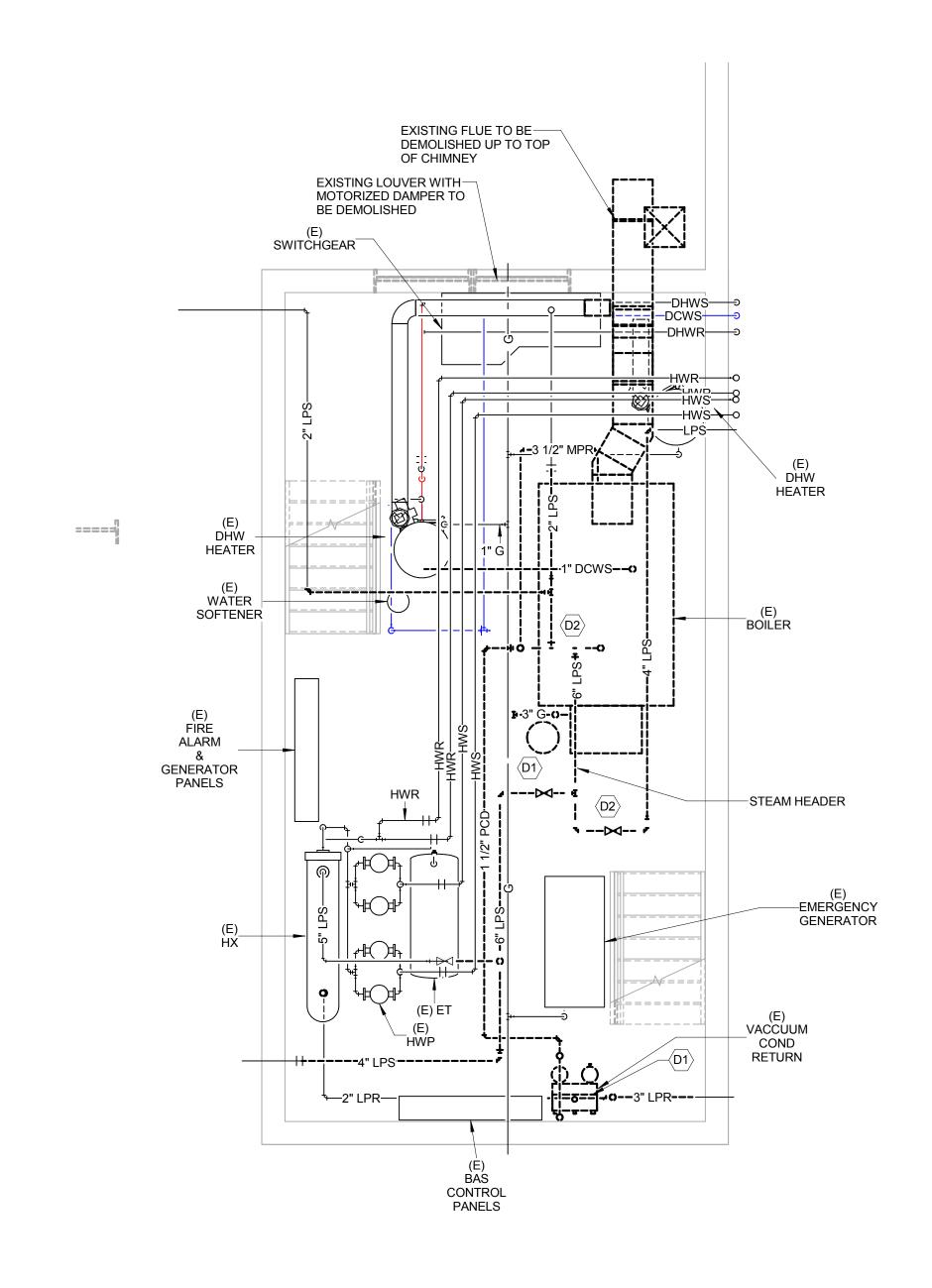
6.
REMOVE EXISTING CARBON MONOXIDE (CO) SENSORS WITHIN BOILER ROOM AND ALL CONDUIT, HOUSINGS, AND MOUNTING BOXES IN ANTICIPATION FOR NEW CO SENSOR SYSTEM.

7.
BOILER IS TO BE REMOVED FROM BUILDING VIA EXISTING DOORWAYS AND EXIT PATHS. THE CREATION OF NEW OPENINGS IN WALLS, FLOORS, OR ROOFS IS NOT ANTICIPATED.

#### KEYED DEMOLITION NOTES :

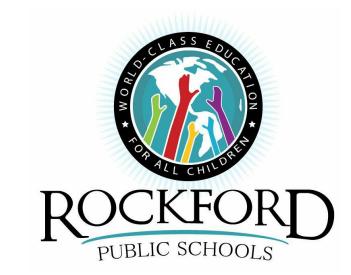
D1.
CHEMICAL TREATMENT SYSTEM TO BE REMOVED. CONTACT CONTRACTED CHEMICAL FEED VENDOR PRIOR TO
DEMOLITION TO HAVE CHEMICAL FEED VENDOR REMOVE CHEMICAL AND EQUIPMENT ENSURE NO LEASED EQUIPMENT IS
DEMOLISHED WITHOUT PRIOR WRITTEN CONSENT OF EQUIPMENT OWNER. DISCONNECT TUBING FROM VACUUM
CONDENSATE RETURN PIPING ABOVE VACUUM RECEIVER, AND CAP AND SEAL TAP ON PIPING.

D2.
DISCONNECT STEAM MAIN FROM STEAM HEADER AND CAP STEAM PIPING FOR RECONNECTION.



BASEMENT BOILER ROOM HVAC & PIPING DEMOLITION

1/4" = 1'-0"



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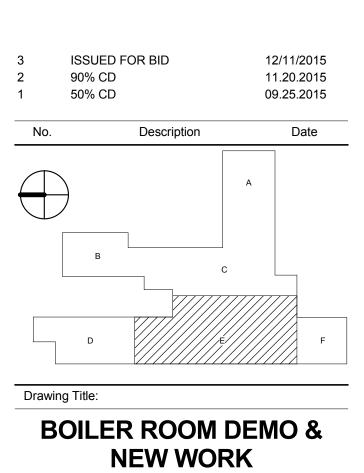
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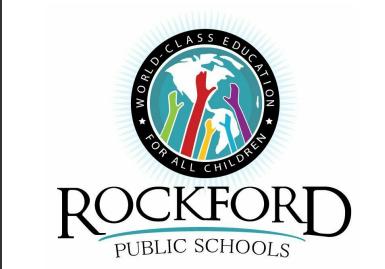
Project No.: 004645.05 Checked by: KH

M0100

AREA A

AREA C

AREA B



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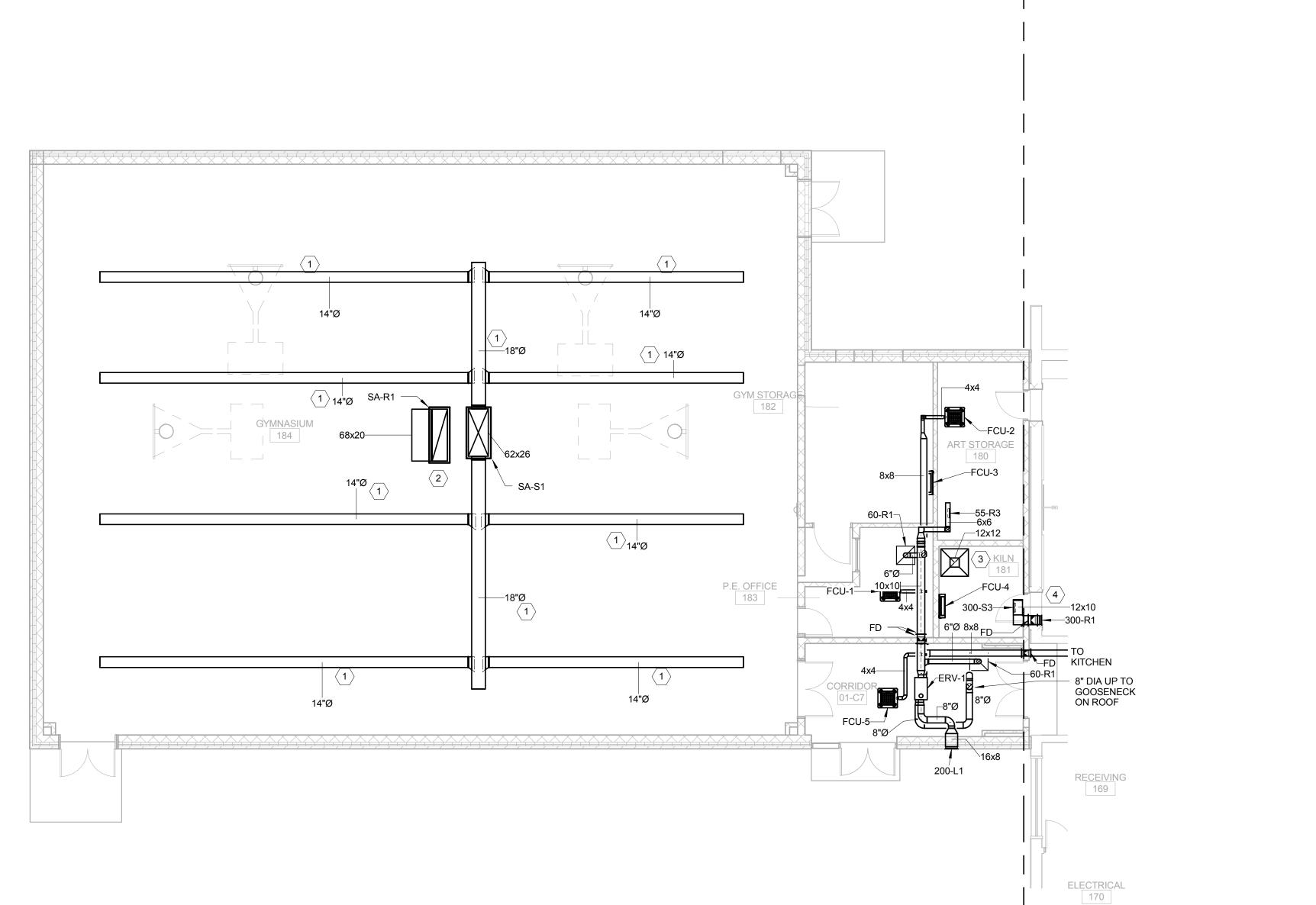
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#### KEYED NOTES :

HORIZONTAL SUPPLY DUCTWORK IN GYM TO BE FABRIC DUCTWORK (BASIS OF DESIGN: DUCTSOX SEDONA-XM). PROVIDE WITH LINEAR OPENINGS OR ORIFICES ALONG LENGTH OF TAKEOFFS, WITH OPENINGS SET AT AN ANGLE AS DETERMINED BY FABRIC DUCT MANUFACTURER TO OPTIMIZE AIR MIXING THROUGHOUT THE GYM. PROVIDE ALL FITTINGS, TAKEOFFS, TRANSITIONS, OFFSETS, SUPPORTS AND CROSSES AS NEEDED TO PROVIDE A COMPLETE INSTALLATION. ROUTE DUCTWORK IN STRUCTURAL MEMBERS, COORDINATING WITH STRUCTURAL STEEL INSTALLER TO ENSURE ALL NEEDED BRACING ACCOMMODATIONS ARE MADE (SEE STRUCTURAL DETAIL SHEETS FOR FRAMING ACCOMMODATIONS FOR DUCTWORK). DUCTWORK TO FIT WITHIN OPEN SPACES OF STRUCTURAL MEMBERS, AND BE MOUNTED SO THAT FABRIC DUCTWORK DOES NOT TOUCH STRUCTURAL MEMBERS WHEN ROOFTOP UNIT IS NOT RUNNING AND DUCTWORK IS DEFLATED. AT CONNECTION TO RIGID DUCTWORK, PROVIDE NECK AND RIGID FITTINGS AT EACH CONNECTION OR TAKEOFF (TO RIGID AND FABRIC-TO-FABRIC), PROVIDE COMBINATION AIRFLOW STRAIGHTENER AND BALANCING FITTING TO PREVENT "INFLATION POP" AND ENSURE A CONSISTENT AND BALANCED AIRFLOW DISPERSION. ALL VERTICAL SUPPLY DUCTWORK LEAVING ROOFTOP UNIT AND ALL RETURN DUCTWORK IS TO BE DOUBLE-WALL DUCTWORK WITH PERFORATED INNER DUCT AND FILM LAYER OVER DUCT INSULATION.

POSITION ROOFTOP UNIT SO THAT THE RETURN AND SUPPLY DUCTWORK DROPS STRADDLE STRUCTURAL JOIST. SUPPLY AND RETURN AIR DUCTS ARE TO LEAVE ROOFTOP UNIT AND ENTER A SOUND ATTENUATOR AT FULL DIMENSION. SUPPLY DUCTWORK IS TO THEN TRANSITION INTO A SUPPLY AIR PLENUM AFTER SOUND ATTENUATOR, STOPPING EVEN WITH BOTTOM OF STRUCTURE WITH A CAP ON THE BOTTOM OF THE DUCT. CONNECT FABRIC DUCTWORK TO SUPPLY AIR PLENUM WITH AIR STRAIGHTNER AND BALANCING FITTING. RETURN DUCTWORK IS TO LEAVE RETURN SOUND ATTENUATOR AND THEN CREATE AN ELBOW AND HORIZONTAL DUCTWORK. MOUNT EXPANDED GRID ON OPENING OF DUCT. ALL EXPOSED RIGID DUCTWORK IS TO BE PAINTED TO MATCH STRUCTURE.

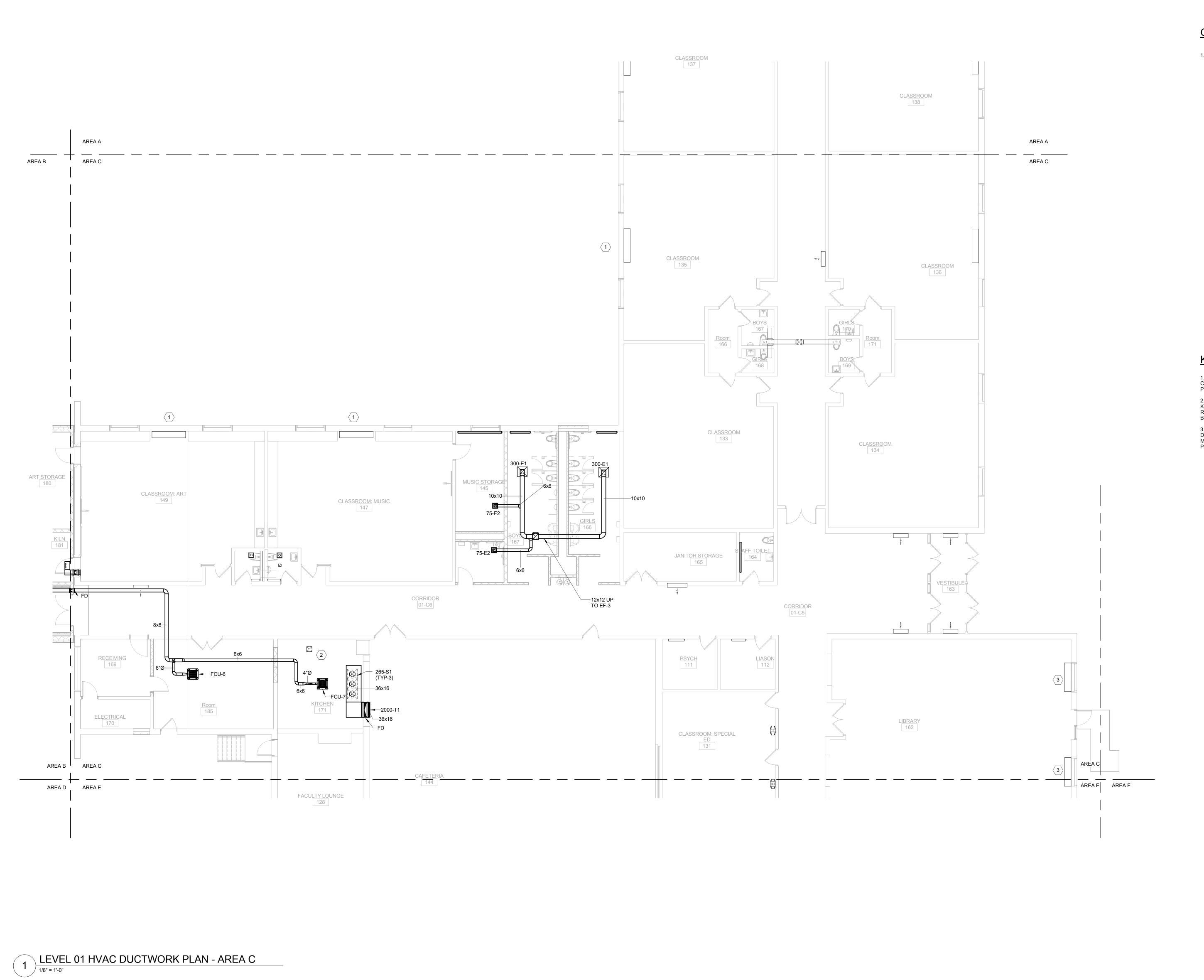
CUSTOM-MADE KILN HOOD WITH 12x12 EXHAUST DUCT UP THROUGH ROOF TO EF-1. SEE DETAIL 8 ON M0701 FOR CONSTRUCTION DETAILS.

.. MOUNT TRANSFER GRILLE ABOVE EXISTING DOOR AND EXTEND RETURN DUCTWORK IN MANNER SHOWN. CAP END OF DUCT AND MOUNT GRILLE IN SIDEWALL OF DUCT. INSTALL FIRE DAMPER IN DUCT, AND PROVIDE ACCESS PANEL PER SPECIFICATION.

> ISSUED FOR BID 12/11/2015 90% CD 11.20.2015 1 50% CD 09.25.2015 Description Date **LEVEL 01 HVAC DUCTWORK PLAN - AREA**

M0101.B

1 LEVEL 01 HVAC DUCTWORK PLAN - AREA B



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#### KEYED NOTES :

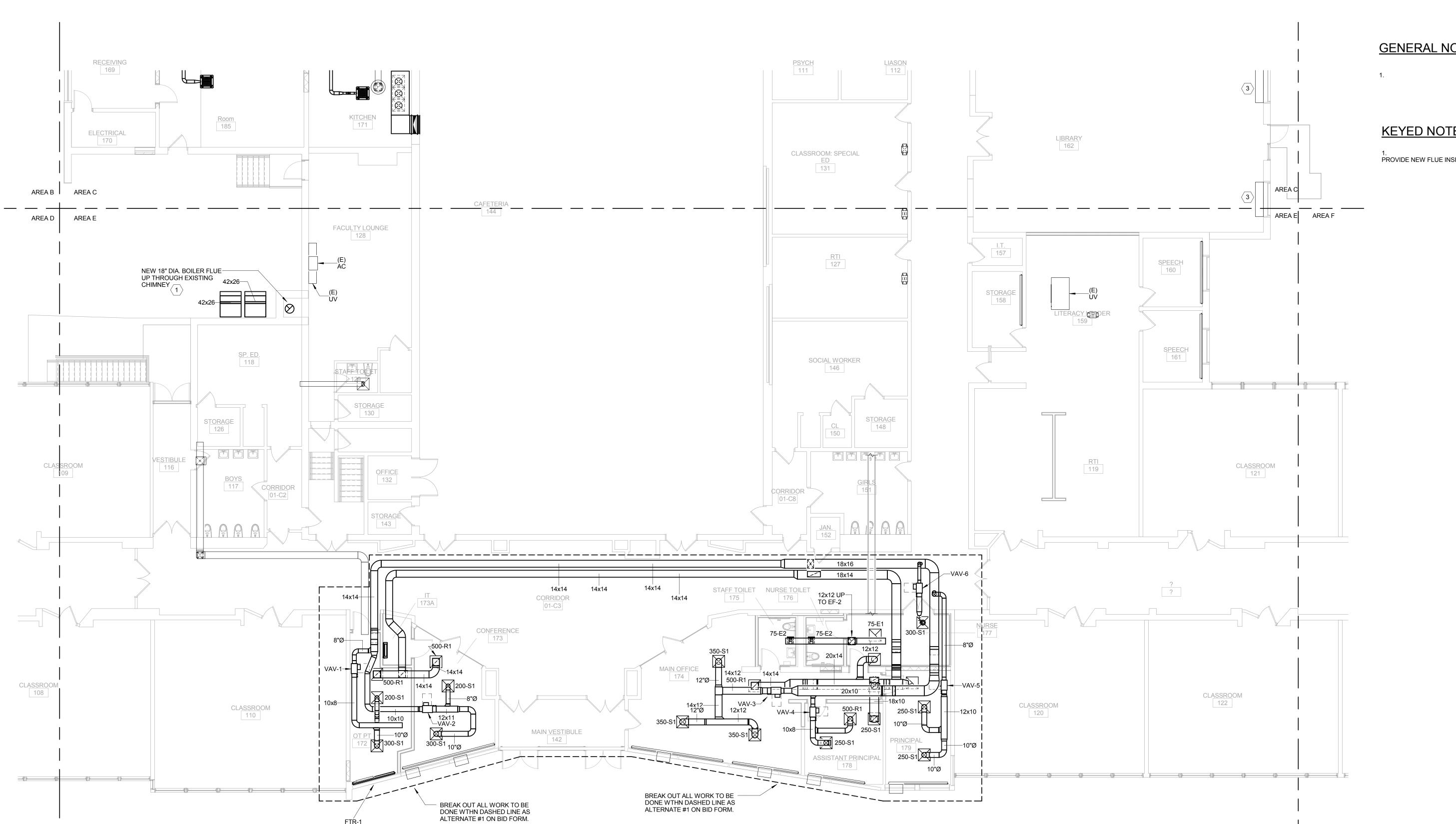
CLEAN UNIT VENTILATOR OUTDOOR AIR INTAKE LOUVER AT END OF PROJECT.

KITCHEN EXHAUST HOOD IS EXISTING TO REMAIN. CLEAN OUT EXISTING TO REMAIN KITCHEN EXHAUST DUCTWORK AND REMOVE ALL GREASE AND BUILDUP BETWEEN HOOD AND FAN OUTLET.

DISCONNECT UNIT VENTILATOR FROM POWER AND COVER WITH RIGID MATERIALS TO PROTECT UNIT DURING DEMOLITION AND NEW WORK PHASES.

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M0101.C



KEYED NOTES :

PROVIDE NEW FLUE INSIDE EXISTING CHIMNEY.

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M0101.E

1 LEVEL 01 HVAC DUCTWORK PLAN - AREA E

#### **GENERAL SHEET NOTES**

KEYED NOTES :

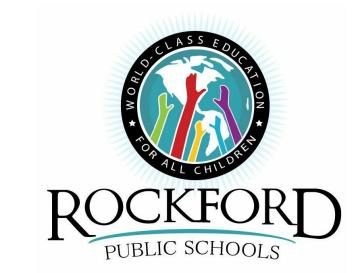
AREA A

AREA C

AREA B

CONFIRM ALL REFRIGERANT LINE SIZES FOR VRF SYSTEMS PRIOR TO ORDERING, USING MANUFACTURER'S RECOMMENDED SIZING AND LENGTHS. PROVIDE ALL FITTINGS, TRIM, AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE SYSTEM.

FOR VRF SYSTEMS, PROVIDE A MANUFACTURER DEVELOPED LAYOUT AS PART OF SUBMITTAL TO ENSURE ALL PIPING, FITTINGS AND EQUIPMENT IS ACCOUNTED FOR.



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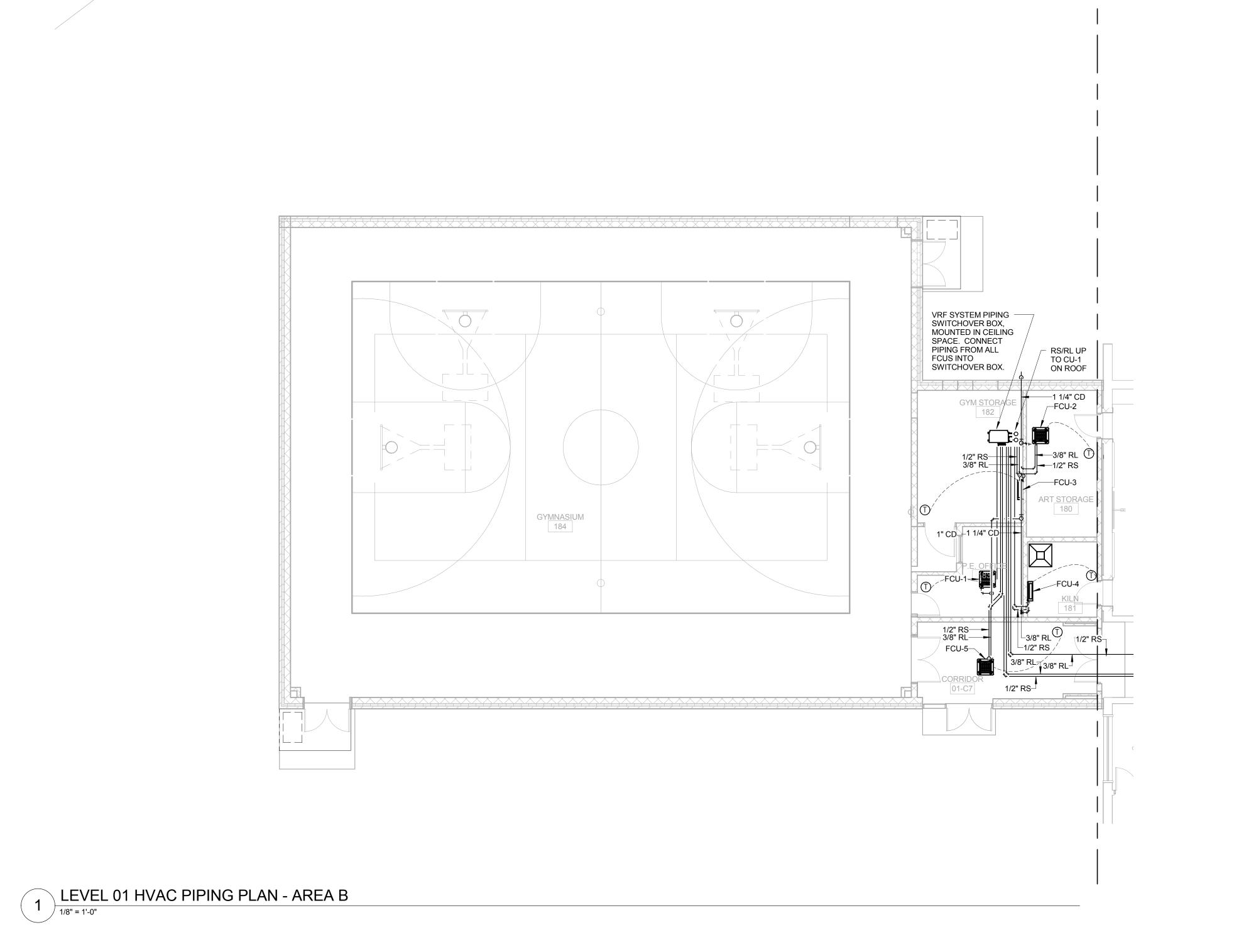
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1 50% CD 09.25.2015

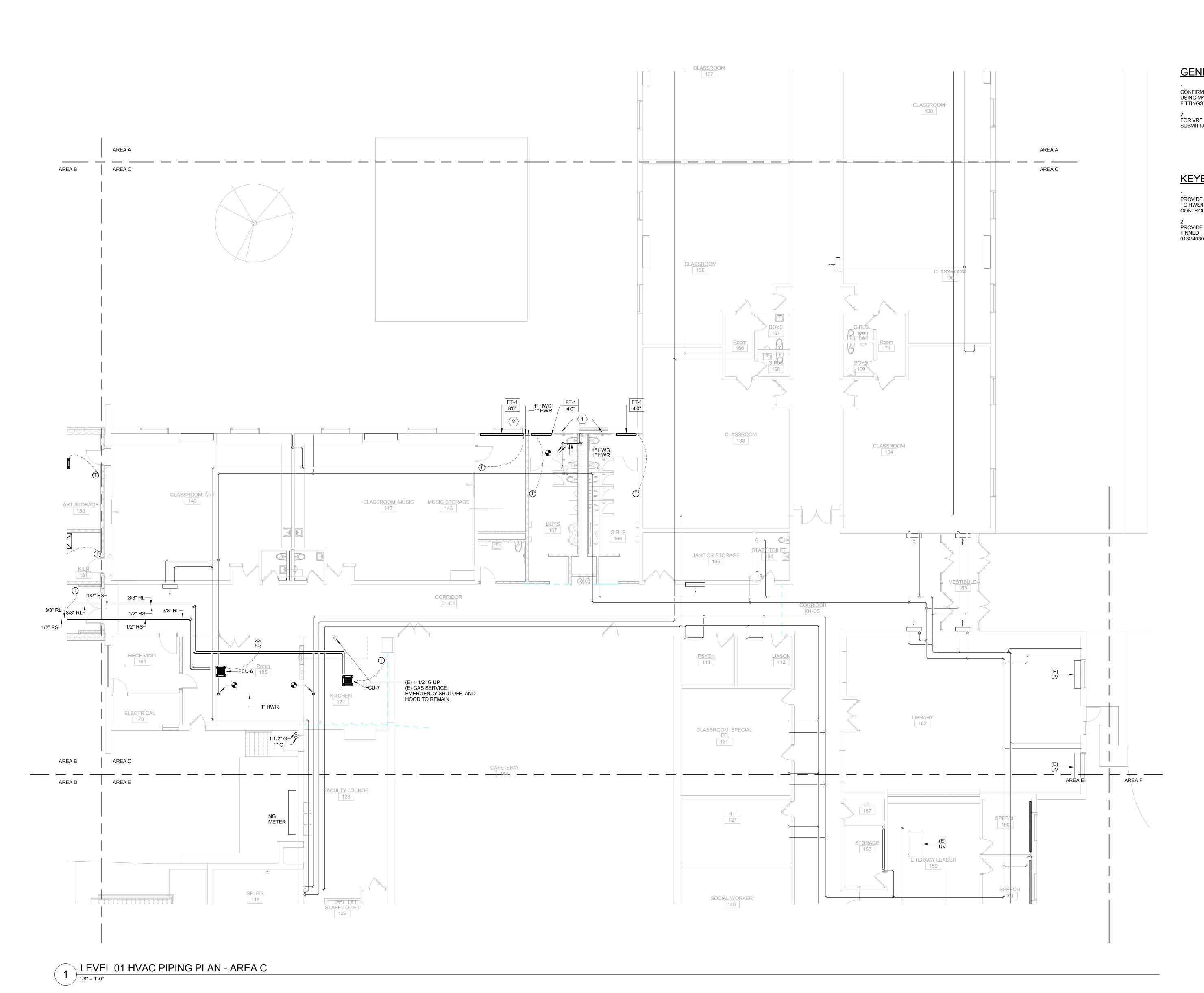
No. Description Date

Drawing Title:

LEVEL 01 HVAC PIPING PLAN - AREA B

Project No.: 004645.05 Checked by:

M0201.B





CONFIRM ALL REFRIGERANT LINE SIZES FOR VRF SYSTEMS PRIOR TO ORDERING, USING MANUFACTURER'S RECOMMENDED SIZING AND LENGTHS. PROVIDE ALL FITTINGS, TRIM, AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE SYSTEM.

FOR VRF SYSTEMS, PROVIDE A MANUFACTURER DEVELOPED LAYOUT AS PART OF SUBMITTAL TO ENSURE ALL PIPING, FITTINGS AND EQUIPMENT IS ACCOUNTED FOR.

#### KEYED NOTES :

PROVIDE NEW CONTROL VALVE FOR NEW FINNED TUBE RADIATION AND CONNECT TO HWS/R PIPING ALONG WALL. PROVIDE NEW FLAT-PLATE THERMOSTAT CONTROLLED THROUGH BAS.

PROVIDE A LOCAL ONLY, THEMOSTATICALLY-CONTROLLED HOT WATER VALVE ON FINNED TUBE RADIATION IN MUSIC STORAGE ROOM. VALVE SHALL BE DANFOSS

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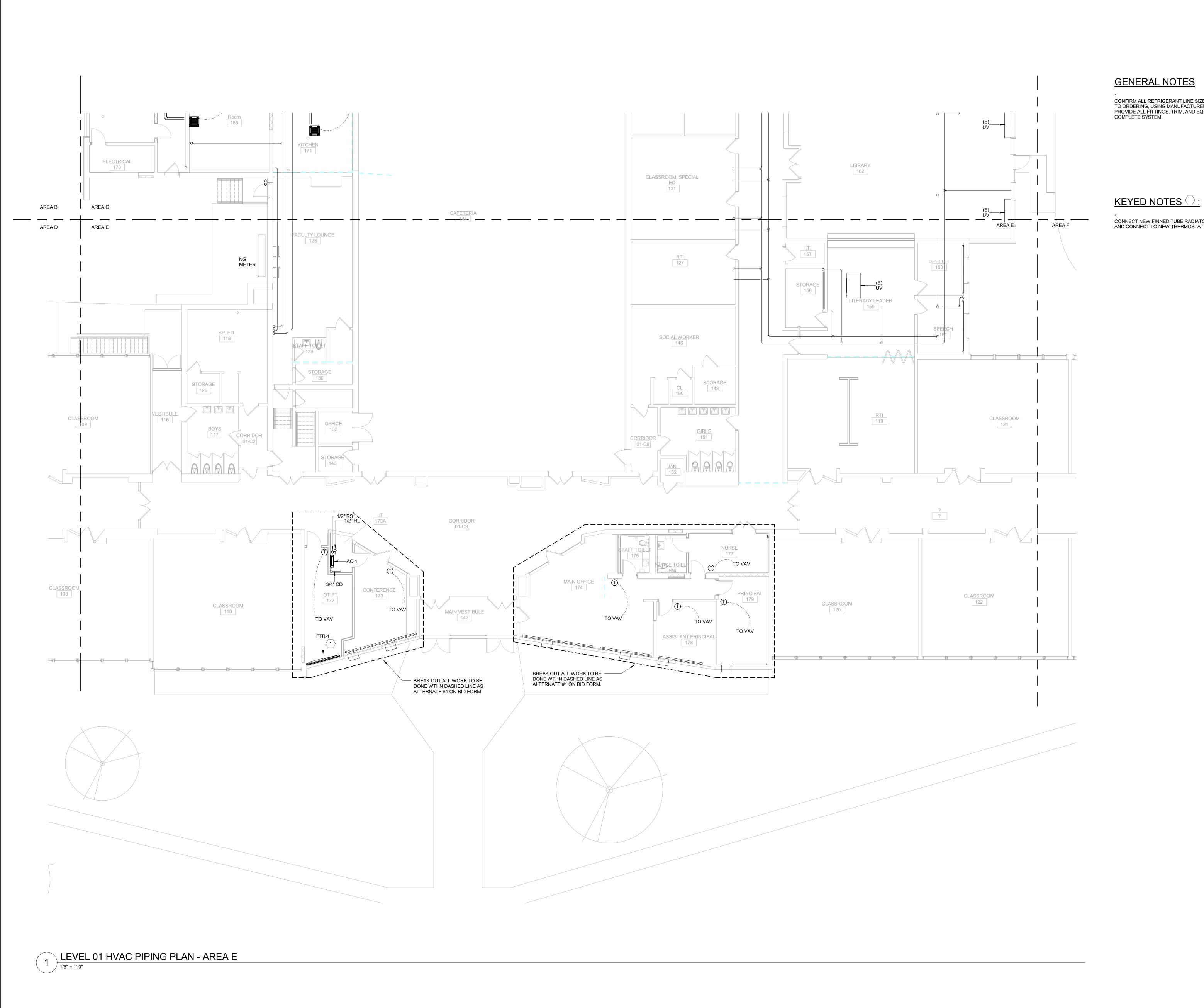
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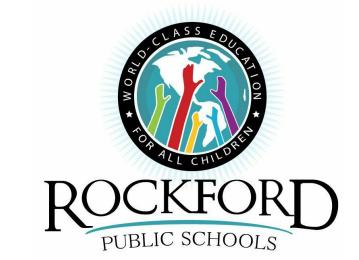
ISSUED FOR BID 11.20.2015 90% CD Description LEVEL 01 HVAC PIPING PLAN - AREA C

M0201.C



CONFIRM ALL REFRIGERANT LINE SIZES FOR VRF AND SPLIT-AC SYSTEMS PRIOR TO ORDERING, USING MANUFACTURER'S RECOMMENDED SIZING AND LENGTHS. PROVIDE ALL FITTINGS, TRIM, AND EQUIPMENT REQUIRED TO INSTALL A

CONNECT NEW FINNED TUBE RADIATOR TO HOT WATER PIPING. PROVIDE NEW CONTROL VALVE, AND CONNECT TO NEW THERMOSTAT IN SPACE.



ROCKFORD PUBLIC SCHOOLS RIVERDAHL ELEMENTARY **SCHOOL - ADDITION & RENOVATION** 

### CANVONDESIGN

225 North Michigan Avenue, Suite 1100 Chicago, Illinois 60601 T: 312.332.9600 F: 312.332.9601

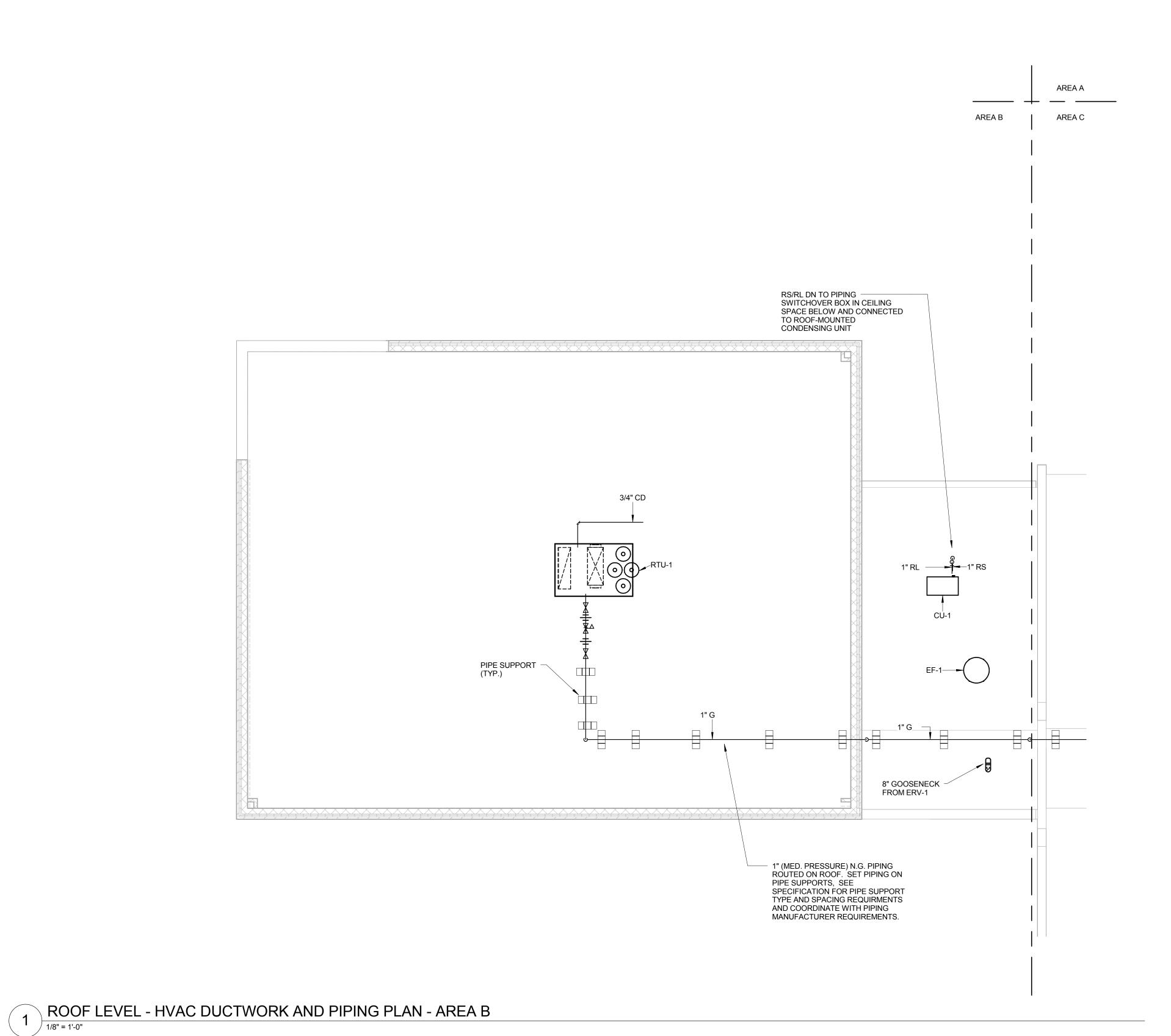
S2O CONSULTANTS, INC Kitchen Consultants 13 Winding Branch Rd Hawthorn Woods IL 60047 224-717-1999

PROFESSIONAL DESIGN FIRM LICENSE NUMBER 184.005683

ARC DESIGN RESOURCES INC. Civil Consultants 5291 Zenith Parkway Loves Park IL 61111 (815) 484-4300

ISSUED FOR BID 12/11/2015 11.20.2015 90% CD 1 50% CD Description LEVEL 01 HVAC PIPING PLAN - AREA E

M0201.E



1. MOUNT ALL ROOFTOP EQUIPMENT AND PIPING AT LEAST 10'0" FROM ALL ROOF EDGES AND CHANGES IN ELEVATION.

2. MOUNT ALL NEW EXHAUST OUTLETS AND FANS AT LEAST 15'0" FROM ALL OUTDOOR AIR INTAKES AND NATURAL GAS PIPING VALVES.

FOR EQUIPMENT MOUNTED ON SLOPED ROOFS, PROVIDE ADAPTOR ROOF CURB SO NEW EQUIPMENT IS MOUNTED LEVEL.

CONFIRM ALL REFRIGERANT LINE SIZES FOR VRF SYSTEMS PRIOR TO ORDERING, USING MANUFACTURER'S RECOMMENDED SIZING AND LENGTHS. PROVIDE ALL FITTINGS, TRIM, AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE SYSTEM.

FOR VRF SYSTEMS, PROVIDE A MANUFACTURER DEVELOPED LAYOUT AS PART OF SUBMITTAL TO ENSURE ALL PIPING, FITTINGS AND EQUIPMENT IS ACCOUNTED FOR.

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224-717-1999

ARC DESIGN RESOURCES INC.
Civil Consultants
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Loves Park IL 61111
(815) 484-4300

3 ISSUED FOR BID 12/11/2015
2 90% CD 11.20.2015
1 50% CD 09.25.2015

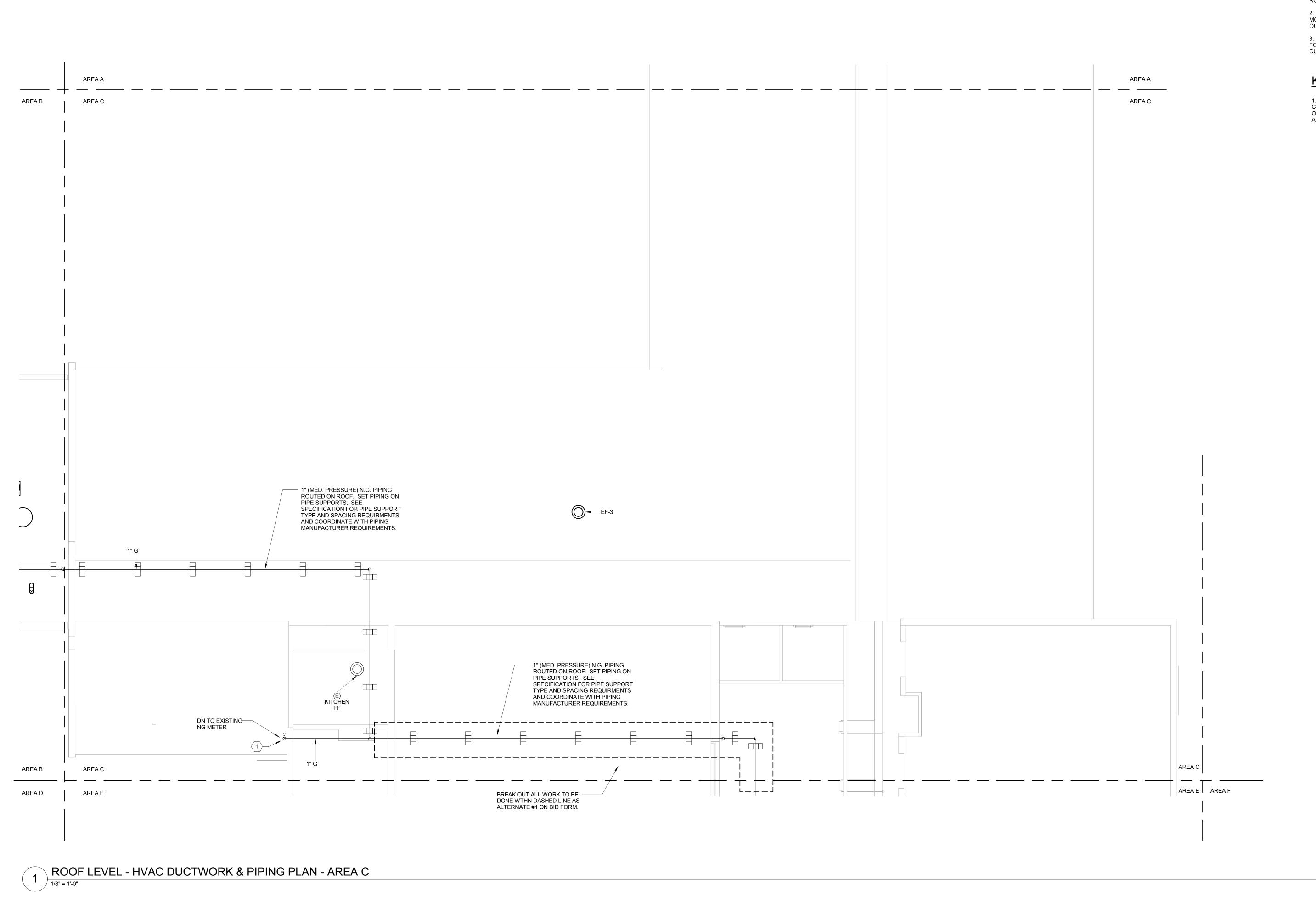
No. Description Date

Drawing Title:

ROOF LEVEL - HVAC DUCTWORK & PIPING PLAN - AREA B

reserved. No part or duced or utilized in a uthorization by The (

M0202.B



MOUNT ALL ROOFTOP EQUIPMENT AND PIPING AT LEAST 10'0" FROM ALL ROOF EDGES AND CHANGES IN ELEVATION.

2.

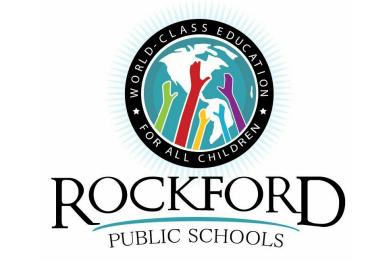
MOUNT ALL NEW EXHAUST OUTLETS AND FANS AT LEAST 15'0" FROM ALL OUTDOOR AIR INTAKES AND NATURAL GAS PIPING VALVES.

3.

FOR EQUIPMENT MOUNTED ON SLOPED ROOFS, PROVIDE ADAPTOR ROOF CURB SO NEW EQUIPMENT IS MOUNTED LEVEL.

KEYED NOTES :

CONNECT NEW NATURAL GAS PIPE TO GAS SERVICE MAIN DOWNSTREAM OF EXISTING METER. ROUTE PIPING VERTICALLY DOWN FACE OF WALL, AVOIDING ALL NEW AND EXISTING OPENINGS.



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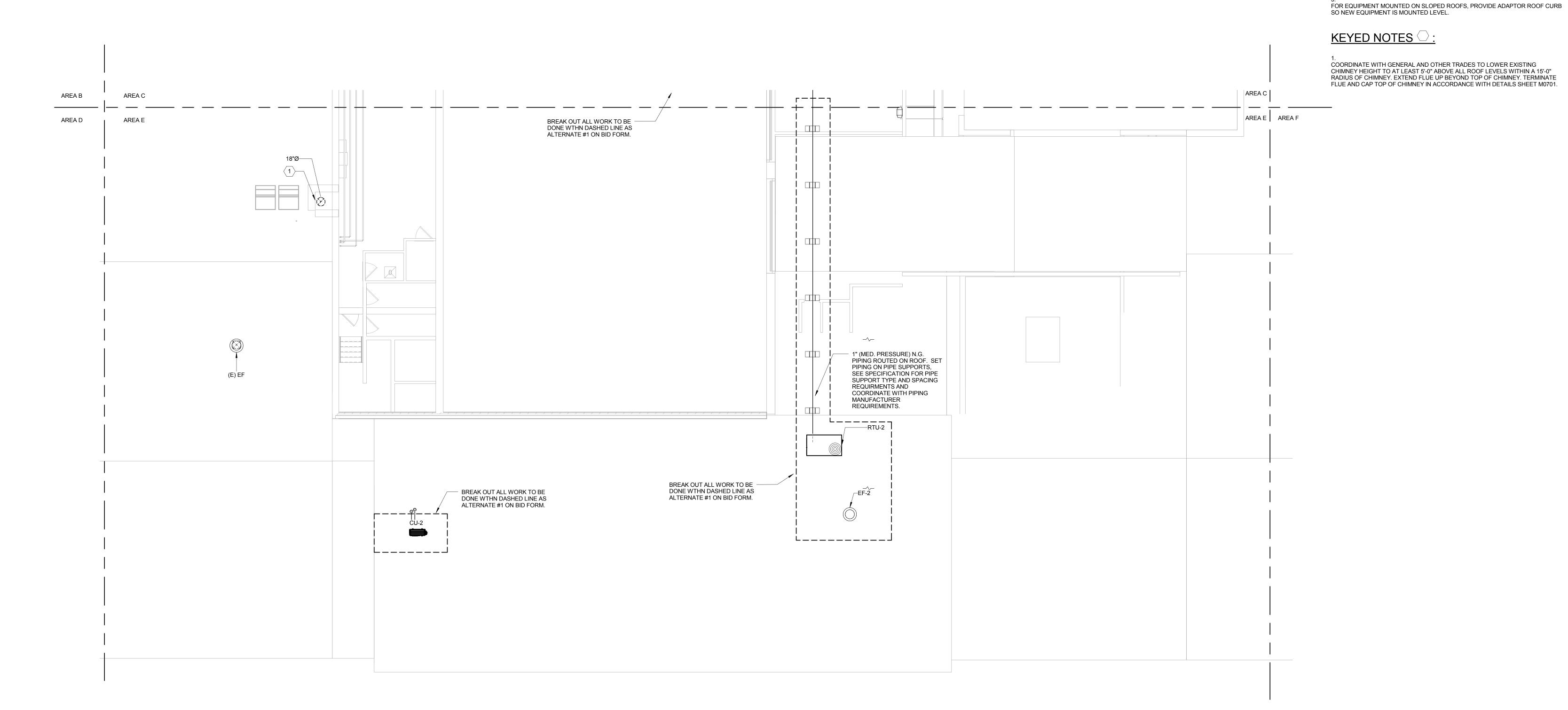
3 ISSUED FOR BID 12/11/2015
2 90% CD 11.20.2015
1 50% CD 09.25.2015

No. Description Date

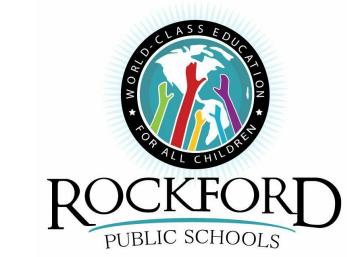
Drawing Title:

ROOF LEVEL - HVAC DUCTWORK & PIPING PLAN - AREA C

M0202.C



ROOF LEVEL - HVAC DUCTWORK & PIPING PLAN - AREA E



ROCKFORD PUBLIC SCHOOLS RIVERDAHL ELEMENTARY **SCHOOL - ADDITION & RENOVATION** 

**GENERAL NOTES:** 

MOUNT ALL ROOFTOP EQUIPMENT AT LEAST 10'0" FROM ALL ROOF EDGES AND CHANGES IN ELEVATION.

Z. MOUNT ALL NEW EXHAUST OUTLETS AND FANS AT LEAST 15'0" FROM ALL OUTDOOR AIR INTAKES.

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LICENSE NUMBER 184.005683

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ARC DESIGN RESOURCES INC. Civil Consultants 5291 Zenith Parkway Loves Park IL 61111 (815) 484-4300

ISSUED FOR BID 12/11/2015 11.20.2015 90% CD 1 50% CD 09.25.2015 Description Date ROOF LEVEL - HVAC DUCTWORK & PIPING PLAN - AREA E

			PACKAGED BLO		/NI QED/	$D\Lambda T \cap$	D TAN	K 601			,					
			PACKAGED BLO	VVDOV	VIN SEPF	ARATO	I I AIN	K SCI I		_						
					<u> </u>	T	TANK DA	ΤΑ	1			AFTERCO	DLER DATA	<b>T</b>		
TAG	LOCATION	SERVICE	MANUFACTURER		TANK	TANK	INLET	VENT	DRAIN	OPERATING			DRAIN	WATER	REMARKS	
				MODEL	DIAMETER, INCHES	HEIGHT, INCHES	SIZE, INCHES	SIZE, INCHES	SIZE, INCHES	WEIGHT, LBS	MODEL	TYPE	SIZE, INCHES	INLET, INCHES		
RES. BDS-1	BOILER ROOM	STB-1, STB-2	HURST BOILER & WELDING CO.	1434A	14	34	1.5	4	4	275	TR-4	AUTO	4	1.25	1 - 3	

PROVIDED WITH 24-INCH HIGH SUPPORTING LEGS

PROVIDED COOLING WATER CONTROL WATER CONTROL ASSEMBLY FOR FIELD PIPING AND INSTALLATION INSTALL UNIT ON 4-INCH THICK CONCRETE HOUSEKEEPING PAD

			DIFFU	SER - R	EGIS	TER - GF	RILLE S	CHEDU	LE	
+	TAG	SERVICE	TYPE	NECK	LINEAR	# OF SLOTS/	DAMPER	MATERIAL/	MANUFACTURER	REMARKS
				SIZE	FEET	SLOT WIDTH		FINISH	AND MODEL	
	S1	SUPPLY	SURFACE	6	4	1	N	В	TITUS FL-20-JT	1, 2 3
	S2	SUPPLY	LAY-IN	8			N	Α	TITUS OMNI	1, 2, 3
+	S3	SUPPLY								
+										
	R1	RETURN	LAY-IN	SEE PLAN			N	Α	TITUS PAR	1, 2, 3
	R2	RETURN								
	R3	RETURN								
	E1	EXHAUST	LAY-IN	SEE PLAN			N	Α	TITUS PAR	1, 2, 3

NOTES: 1. COORDINATE EXACT DIFFUSER LOCATIONS WITH ARCHITECTURAL FLOOR PLANS AND REFLECTIVE CEILING PLANS.

2. PROVIDE APPROPRIATE FRAME, BORDER OR FLANGE FOR PROPER MOUNTING AS RECOMMENDED BY THE MANUFACTURER. REFER TO THE ARCHITECTURAL DRAWINGS FOR SURFACES IN WHICH DIFFUSERS, REGISTERS AND GRILLES ARE LOCATED.

MATERIAL/FINISH KEY

A. STEEL WITH STANDARD FACTORY WHITE ENAMEL FINISH. B. ALUMINUM WITH STANDARD FACTORY WHITE ENAMEL FINISH.

C. NATURAL ALUMINUM.

D. POLISHED STAINLESS STEEL.

															ROOFT	OP HV	AC UN	IT SCH	EDULE	GAS	HEATING)										
					,	SI	JPPLY FA	AN			CC	OLING SECTI	ON				HEATING	SECTION			CONDENSING S	SECTION	EFFICIENCY F	PARAMETERS		ELECTR	RICAL DATA		UN	т	
TAG	LOCATION	NOM.	O.A.	TOTAL	BUD	ЦΒ	DDM	TSP	ESP	COOLING	TOTAL	SENSIBLE	EAT *F	LAT *F	CFM	INPUT	OUTPUT	EAT	LAT	STAGES	REFRIGERANT	NO. OF	EER	IEER	MCA MC	CB V	OLT P	ш	<sub>цэ</sub> W1	. MANUFACTURER	REMARKS
		TONS.	CFM	CFM	БПР	HP	RPM	IN. W.C.	IN. W.C.	CFM	MBH	MBH	DB/WB	DB/WB	CFIVI	MBH	MBH	DEG F	DEG F	STAGES	TYPE NO. CIRCUITS	COMPRESSORS	LEK	IEEK	IVICA IVIC	V CP	OLI P	_	LB	S) AND MODEL	
RTU-1	AREA C ROOF	17.5	1700	7000	5.04	7.5	990	1.36	1.2	7000	224	169	81/67	59/58	7000	310	251	47	80	2	R-410a 1	2	10.8	12.7	89 10	00	208	3	60 250	0 CARRIER 48TCEE20A3A5-0A0G0	1,2,3,4,5,6
RTU-2	AREA E ROOF - SOUTH	8	760	3300					1.25		96		81/67				54	47	90								208	3	60	CARRIER 48LC	1,2,3,4,5

1. MOUNT UNIT ON 24" HIGH INSULATED VIBRATION ISOLATION ROOF CURB (BASIS OF DESIGN: THYCURB TC-1) AND PROVIDE DRAINAGE OF CURB.

2. PROVIDE SECTION AND CONTROLS FOR HUMIDITY CONTROL OF SUPPLY AIR IN THREE MODES: NORMAL COOLING MODE, SUB-COOLING MODE, AND HOT GAS REHEAT. INCLUDE WALL MOUNTED HUMIDISTAT

3. PROVIDE WITH HAILGUARDS ON ALL CONDENSER FANS.

4. PROVIDE WITH NEMA 3R DISCONNECT.

5. PROVIDE WITH ECONOMIZER CONTROL OPTION. PROVIDE 0-100% MODULATING POWER EXHAUST / ECONOMIZER CONTROL PACKAGE.

6. UNIT IS A SINGLE-ZONE VAIRABLE AIR VOLUME RTU WITH A CONSTANT DISCHARGE AIR TEMPERATURE AND VARYING AIRFLOW. PROVIDE WITH A SOFT-START PACKAGE ON FANS TO MINIMIZE SHOCKS TO FABRIC DUCTWORK.

					SOUND	ATTE	NUA	IOTA	R SC	HED	ULE	<b>=</b>					
			QTY/NOMINAL SIZE	TOTAL	MAX FACE	MAX			MINIMU	M DYN. II	NSERTI	ON LOSS	3				
TAG	SYSTEM	TYPE	WxHxL	CFM	VELOCITY	APD			OC	TAVE BA	AND/HEI	RTZ			MANUFACTURER	MODEL	REMARKS
140	SISILW	1117			FPM	WG	1	2	3	4	5	6	7	8	MANOI ACTONEN	WODLL	KEWAKKS
							65	125	250	500	1K	2K	4K	8K			
SA-S1	RTU-1 SUPPLY AIR	RECT. FILM-LINED	1 / 62 x 26 x 36	7000	625	0.15	4	6	12	17	24	24	18	10	PRICE	RLT 36 / 2D	
SA-R1	RTU-1 RETURN AIR	RECT. FILM-LINED	1 / 68 x 20 x 36	7000	741	0.15	5	8	9	13	14	12	10	6	PRICE	RMT 36 / VE	

					FAN S	CHED	ULE							
TAC	LOCATION	SEDVICE.	CEM	S.P.	FAN DATA	4		MC	OTOR DA	TA		MALINEACTURER	MODEL	DEMARKS
TAG	LOCATION	SERVICE	CFM	IN WC	FAN TYPE	DRIVE	ВНР	HP	VOLT	PH	HZ	MAUNFACTURER	MODEL	REMARKS
EF-1	AREA B	KILN EXHAUST	300	0.6	CENTRIFUGAL	DIRECT	0.07	1/4	115	1	60	GREENHECK	G-98-VG	1,2,3,4
EF-2	AREA C	TOILET EXHAUST	180	0.45	CENTRIFUGAL	DIRECT	0.04	1/4	115	1	60	GREENHECK	G-097-VG	1,2,3,4
EF-3	AREA C	TOILET EXHAUST	750	1.0	CENTRIFUGAL	DIRECT	0.26	1/3	115	1	60	GREENHECK	G-103-A	1,2,3,4

1. PROVIDE MANUFACTURER'S STANDARD INSULATED ROOF CURB.

2. PROVIDE WITH MOTOR STARTER AND DISCONNECT IN NEMA 3R ENCLOSURE.

3. PROVIDE WITH STANDARD VIBRATION ISOLATION AND MOTORIZED DAMPER.

4. CONNECT MOTOR AND STARTER TO BAS VIA LONWORKS.

							FIN T	UBE RADIA	TION SCHE	DULE							
	ELEMENT C	CONFIGURATION	ELEMENT	MIN.				AVERAGE							BASIS OF	DESIGN	
TAG	LLLIWLINI	ONLIGORATION	TUBE	BTUH	TUBE	FIN SIZE	FINS PER	WATER	FLUID	TOTAL	ENCLOSURE	<b>ENCLOSURE</b>	ENCLOSURE	ENCLOSURE			REMARKS
	TIERS	ARRANGEMENT	LENGTH	PER LINEAR FT.	SIZE	W x H [IN]	LINEAR FT.	TEMP. [DEG F]		GPM	TYPE	LENGTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	
FT-1	2	WALL-MOUNT	SEE PLANS	870	3/4"	2-1/2" x 2-3/4"	60	160	HW	1.8	WALL HUNG - SLIM	-	3-9/16"	16"	STERLING	JVK-S14K R02	1
															I I		

1 HEATING ELEMENT TO BE STEEL.

		L										S7	ГЕАМ В	OILER													
	)G 100/	ATION	OPERATING	FIRING	GROSS	MAX OPERATING	STEAM OUTPUT	BOILER HP	WATER	FIRESIDE HEATING	FURNACE	MIN/MAX NATURAL GAS			!	BURNER D	ATA				CC	NTROL	. DATA	OPERATING	MANUFACTURER	MODEL	REMARKS
14	AG LOCA	ATION	PRESSURE [PSI]	INPUT. MBH	OUTPUT MBH	PRESSURE [PSI]	[LBS / HR]	BOILER HP	VOLUME [GAL]	SURFACE SQ FT	VOLUME [CU. FT]	INPUT PRESSURE (IN W.C.)	НР МО	DULATION	TYPE	VOLT	РН	HZ	MANUFACTURER	MODEL	VOL	Г РН	HZ	WEIGHT LBS	MANUFACTURER	MODEL	REWIARNS
R	_1 ROUE	.ER RM	5	3780	3013	15	3105	90	360	234	24	5" / 15"	3	FULL	HIGH EFF. / LOW Nox	240	3	60	RIELLO	RS/E	208	3	60	8300	HURST	SLPX-90-15-R	1,2,3,4
В		ER RM	5	3780	3013	15	3105	90	360	234	24	5" / 15"	3	FULL	HIGH EFF. / LOW Nox	240	3	60	RIELLO	RS/E	208		60	8300	HURST	SLPX-90-15-R	1,2,3,4

.1 PROVIDE WITH MANUFACTURER-MOUNTED CONTROLLER TO TIE INTO BAS, AND PROVIDE CONTROLS IN ACCORDANCE WITH SYSTEM ON M0603.

2. PROVIDE WITH MANUFACTURER'S INTEGRATED GAS TRAIN, SHUTOFF, AND TRIM.

3. PROVIDE WITH MANUFACTURER'S STANDARD CONTROLLER AND PLANT CONTROLLOGIC. 4. PROVIDE WITH DISCONNECT AND FAN MOTOR STARTER.

									BOILER	FEED UN	IT / VACUU	м сон	DENSAT	E RET	דואט אנ	Г										
					REC	CEIVER					WATER PUMP								AIR PUMP							
TAG	LOCATION	SERVICE	TYPE	CAPACITY (EDR)	MATERIAL	VOLUME	INLET	OLIANTITY MOUNTING GPM DISCHARGE MOTOR								QUANTITY	MOUNTING	CEM	AIR		МО	TOR		MANUFACTURER	MODEL	NOTES
					MATERIAL	(GAL.)	(IN.)	QUANTITY	MOUNTING	GPM	PRESS. (PSI)	RPM	HP	PHASE	VOLT		MOUNTING	CFM	REMOVAL (INCHES HG)	RPM	HP	PHASE	VOLT			
BFU-1	BOILER ROOM	B-1, 2	CENTRIFUGAL	25000	CARBON STEEL	365	5	3	VERTICAL	15 EACH	30	3500	0.75	3	240		-			-	-		1	MEPCO	AWPCRVT2540	1,2,3,4,5,6,7,8
VCRU-1	BOILER ROOM	B-1, 2	POSITIVE DISPLACEMENT	25000	CAST IRON	45	3	2	VERTICAL	38	20	3500	0.75	3	240	2	HORIZONTAL	23 EACH	15	3450	2	3	240	MEPCO	LRVD252320	1,3,4,5,6,7

REMARKS

1. PROVIDE WITH MOTOR STARTERS AND DISCONNECTS IN NEMA ENCLOSURES RATED FOR INDOOR MOISTURE-PROOF INSTALLATIONS.

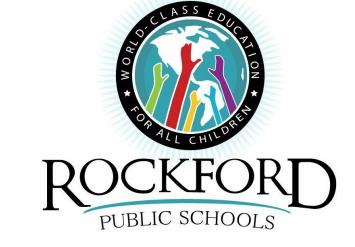
2. PROVIDE AUXILIARY HIGH WATER AND LOW WATER ALARMS

3. PROVIDE UNIT COMPLETE WITH FLOAT SWITCHES 4. MOTORS: T.E.F.C. TYPE

5. CONTROL PANEL: FURNISH COMBINATION FUSED STARTERS WITH FUSED CONTROL TRANSFORMER, SEE SPECIFICATION FOR ALL REQUIRED COMPONENTS

8. PROVIDE WITH WATER MAKEUP TRIM, TO INCLUDE BACKFLOW PREVENTER, AIR GAP, AND RPZ AS REQUIRED BY CODE.

6. PROVIDE REQUIRED PIPING ACCESSORIES AS REQUIRED FOR FUNCTIONING COMPLETE SYSTEM AND RECOMMENDED BY UNIT MANUFACTURER. 7. ALL RECEIVERS AND HOLDING TANKS ARE TO BE INSULATED PER SPECIFICATION.



ROCKFORD PUBLIC SCHOOLS RIVERDAHL ELEMENTARY **SCHOOL - ADDITION &** RENOVATION

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3 ISSUED FOR BID 12/11/2015 11.20.2015 2 90% CD 1 50% CD Date Description

Drawing Title: **SCHEDULES** 

Project No.: 004645.05

															ENE	RGY	RECO	VERY	VENT	LATOF	RUNIT												
				SUPP	LY FAN	RETUR	N / EXHAL	JST FAN								Е	NERGY REC	OVERY WH	EEL			•	•	1		ELE	CTRICAL	L DATA					
		AREA		ESP		GROSS			0	UTDOOR A	R CONDITIO	NS	RETURN	AIR CONE	DITIONS		EXHAU	ST AIR CON	IDITIONS			SA CONDITION	S	EFFECTIVENESS				TOTAL	UNIT		UNIT		
TAG	LOCATION	SERVED	CFM	(IN. WC)	TYPE	CFM	ESP	TYPE	SUPPLY	SUM	MER	WINTER	SUMM	IER	WINTER	EXHAUST	SUMMER	SUMMER	WINTER	WINTER	SUI	MMER	WINTER	(%)	V	PH	FLA	UNIT	МОСР	FILTER	WEIGHT	MANUFACTURER	REMARKS
							[IN. WC]		(CFM)	EAT(DB)	EAT(WB)	EAT(DB)	EAT(DB)	EAT(WB)	EAT(DB)	[CFM]	LAT DB	LAT WB	LAT	RH [%]	LAT(DB)	LAT(WB)	LAT(DB)					FLA			LBS	AND MODEL	
ERV-1	AREA B CORRIDOR	AREA B	225	0.5	PSC	222	0.4	PSC	225	91	78	-10	75	62	70	225	88	74	10	100	77.0	67	50	65.0%	120	1	60	1	15	MERV-7	45	NU-AIR ES210	1,2,3

#### REMARKS

- PROVIDE WITH INTEGRAL CONTROLLER LOGIC FOR AUTOMATIC DEFROST, ECONOMIZER, AND RECIRCULATION MODES.
- 2. PROVIDE WITH MOTOR STARTER AND DISCONNECT.
- 3. PROVIDE WITH INTEGRATED CONDENSATE PUMP AND CONDENSATE PAN

												VAR	IABLE	-REFI	RIGER	ANT I	FLOW	SYS	EM												
								INDOOR U	JNIT																OUTDO	OR UNIT					
		BASIS OF D	ESIGN						COOLING			HE	ATING		UNIT E	LECTRICA	L DATA		WEIGHT			BASIS OF I	DESIGN		(	CONDENSE	R	втин (	COOLING	WEIGHT	
TAG	LOCATION	MANUFACTURER	MODEL	CFM	IUTDOOR .	AIR [C <b>FNR</b> EFRIGERAN	T REQ TOTAL COOLING	TOTAL CAP [MBH]	SENS. CAP. [MBH]	EAT [DEG F]	LAT [DEG F]	REQ CAP. [MBH]	UNIT CAP	. MCA	МОСР	VOLT	PH	HZ	[LBS]	REMARKS	TAG	MANUFACTURER	MODEL	VOLT	PH	HZ	MCA / MCOP	SENS.	TOTAL	[LBS]	NOTES
																						WATOT ACTORER	WODEL	VOLI		112	WICA / WICCI	JENO.	IOIAL	[LDO]	
FCU-1	PE OFFICE 183	LENNOX VRF	V22A015	370	60	R-410a	12	13.9	10.4	74/65	55/54	12	9.3	0.3	15	208	1	60	40	1,2,3,4,5,6,7	CU-1	LENNOX VRF	VPA096H4M	208	1	60	36.1 / 60	91	75	635	1,3,4,7
FCU-2	ART STORAGE 180	LENNOX VRF	V22A015	370	60	R-410a	12	13.9	10.4	74/65	55/54	12	9.3	0.3	15	208	1	60	40	1,2,3,4,5,6,7											
FCU-3	GYM STORAGE 182	LENNOX VRF	VWMA007	300	0	R-410a	3	6.9	5.2	74/65	55/54	3	4.5	0.2	15	208	1	60	29	1,2,3,4,5,6,7											
FCU-4	KILN 181	LENNOX VRF	VWMA015	445	0	R-410a	0	13.9	10.4	74/65	55/54	10	9.3	0.3	15	208	1	60	33	1,2,3,4,5,6,7											
FCU-5	CORRIDOR 01-C7	LENNOX VRF	V22A015	370	60	R-410a	12	13.9	10.4	74/65	55/54	15	9.3	0.3	15	208	1	60	40	1,2,3,4,5,6,7											
FCU-6	ROOM 186	LENNOX VRF	V22A015	370	20	R-410a	12	13.9	10.4	74/65	55/54	15	9.3	0.3	15	208	1	60	40	1,2,3,4,5,6,7											
FCU-7	KITCHEN	LENNOX VRF	V22A015	370	25	R-410a	12	13.9	10.4	74/65	55/54	15	9.3	0.3	15	208	1	60	40	1,2,3,4,5,6,7											

#### REMARKS

- 1. PROVIDE MANUFACTURER-SPECIFIC LAYOUT AND REFRIGERANT PIPING SCHEMATIC TO SERVE SPACES, SIZED PER MANUFACTURER'S RECOMMENDATION.
- 2. PROVIDE WIRED THERMOSTAT IN EACH SPACE ON WALL.
- 3. PROVIDE WITH AIR FLOW SAFETY SWITCH AND HIGH LIMIT CONTROL.
- 4. PROVIDE WITH LOCAL DISCONNECT AND MOTOR STARTER.
- 5. PROVIDE WITH SMOKE DETECTOR AND ALARM TO BAS.
- 6. PROVIDE WITH INTEGRAL CONDENSATE PUMP AND ROUTE TO NEAREST FLOOR DRAIN.
- 7. SYSTEM TO HAVE HEAT RECOVERY OPTION. PROVIDE MANUFACTURER-SPECIFIC PIPING SWITCHOVER BOX BETWEEN INDOOR AND OUTDOOR UNITS.

											_												
						SPLIT S	SYSTE	EM AI	R CO	NDITI	ONIN	NG SCH	IEDULE	(ELECTRIC H	<del>I</del> EAT)								
				-	-							1			/								
			I	NDOOF	R UNIT												OUTDOO	R UNIT					
LOCATION	BASIS OF	DESIGN	CFM	OSA	ESP	REFRIGERANT			FAN			WEIGHT	TAG	BASIS OF I	DESIGN		C	ONDENSE	R	втин с	COOLING	WEIGHT	NOTES
LOCATION	MANUFACTURER	MODEL	CFIVI	CFM	IN.W.C.	REFRIGERANT	MCA	HP	VOLT	PH	HZ	[LBS]	IAG	MANUFACTURER	MODEL	VOLT	PH	HZ	MCA / MCOP	SENS.	TOTAL	[LBS]	NOTES
IT CLOSET	MITSUBISHI	PKA-A12 HAL	425	0	0	R-410a	1	0.05	208	1	60		CU-2	MITSUBISHI	PUY-A12NHA3	208	1	60	13 / 15		12	100	1,2,3,4,5,6

#### REMARKS

AC-1

- 1. PROVIDE REFRIGERANT PIPING SIZED PER MANUFACTURER'S RECOMMENDATION.
- 2. PROVIDE THERMOSTAT CONTROL IN SPACE.
- 3. PROVIDE WITH AIR FLOW SAFETY SWITCH AND HIGH LIMIT CONTROL.
- 4. PROVIDE WITH LOCAL DISCONNECT AND MOTOR STARTER.
- 5. PROVIDE WITH SMOKE DETECTOR AND ALARM TO BAS.
- 6. PROVIDE WITH INTEGRAL CONDENSATE PUMP AND ROUTE TO NEAREST FLOOR DRAIN.

			VAF	RIABLE	AIR VO	LUME T	ERMINAL	UNIT - E	LEC	TRIC C	OIL		
					вох	TOTAL UNIT		ELECT	RIC COI	L			
TAG	LOCATION	MAX. CFM	MIN CFM	DUCT SIZES INLET	AIR P.D. INCH W.C.	AIR P.D. INCH W.C.	EAT [DEG F]	LAT [DEG F]	KW	V/PH/HZ	STAGES	MANUFACTURER AND MODEL	REMARKS
VAV-1	AREA E	500	275	8	0.02	1	55	95	7	208/3/60	3	TITUS DESV	1
VAV-2	AREA E	500	275	8	0.02	1	55	95	7	208/3/60	3	TITUS DESV	1
VAV-3	AREA E	1000	400	10	0.01	1.25	55	85	5.7	208/3/60	3	TITUS DESV	1
VAV-4	AREA E	500	275	8	0.02	1	55	95	7	208/3/60	3	TITUS DESV	1
VAV-5	AREA E	500	275	8	0.02	1	55	95	7	208/3/60	3	TITUS DESV	1
VAV-6	AREA E	300	165	6	0.02	1	55	93	2	208/3/60	3	TITUS DESV	1

REMARKS

1. PROVIDE WITH MANUFACTURER'S LONWORKS CONTROLLER AND TIE INTO LONWORKS-BASED BAS.

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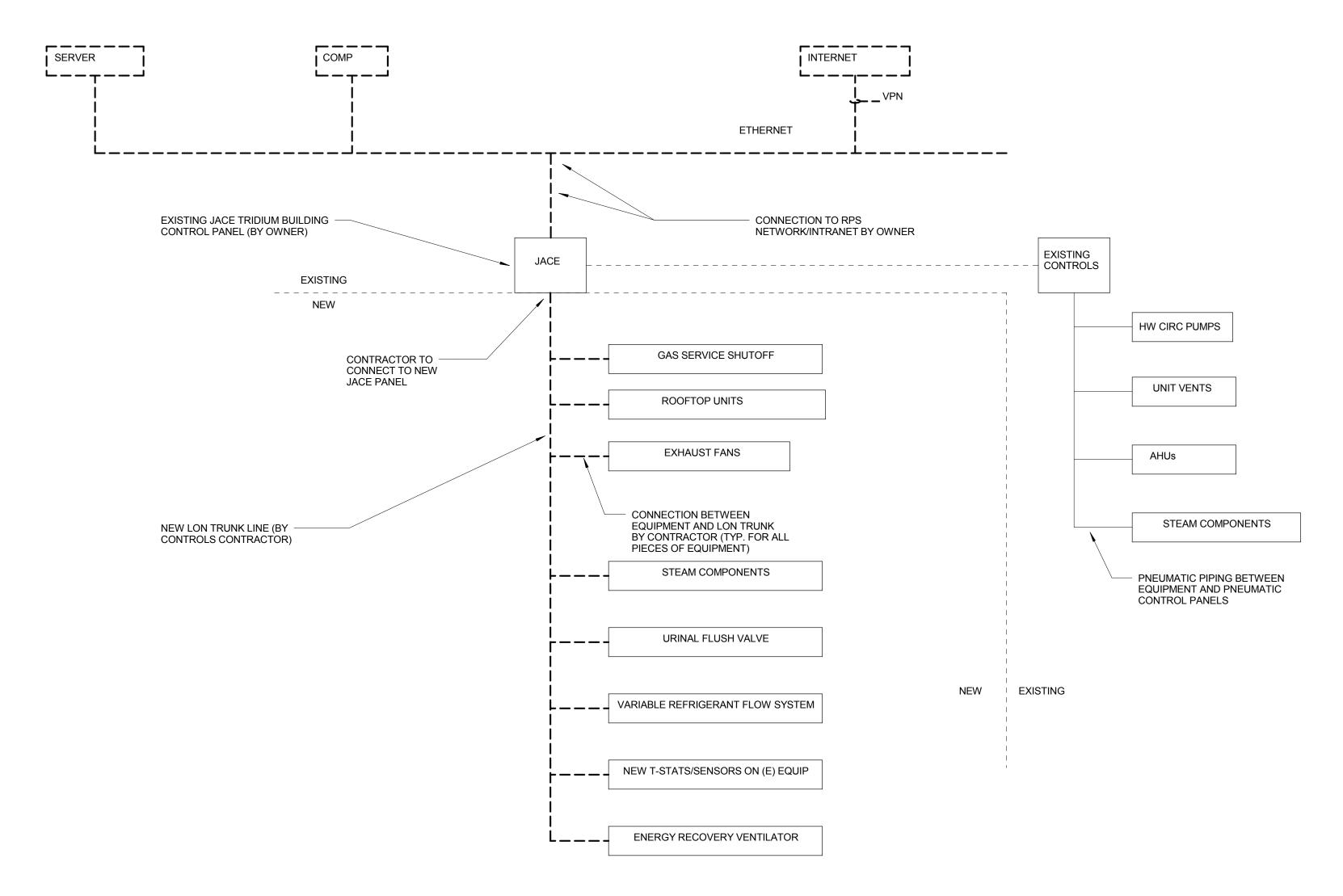
SCHEDULES

Description

Project No.: 004645.05

M0502

#### CONTROLS NETWORK / LON TRUNK RISER SCHEMATIC



### **INITIAL SPACE TEMPERATURE SETPOINTS**

SEASON	MODE	SPACE TEMPERATURE [DEG F, ADJ]	TIME OF DAY
COOLING	OCCUPIED	74	7 AM -5 PM (WD)
333213	UNOCCUPIED	80	12 AM - 7 AM (WD) 5 PM - 12 AM (WD) 12 AM - 12 AM (WE, H)
	OCCUPIED	70	7 AM -5 PM (WD)
HEATING	UNOCCUPIED	65	12 AM - 7 AM (WD) 5 PM - 12 AM (WD) 12 AM - 12 AM (WE, H)

#### **GENERAL CONTROLS SYSTEM REQUIREMENTS**

CONTRACTOR TO INSTALL NEW LON TRUNK LINE THROUGH SCHOOL, AND CONNECT TO EXISTING JACE PANEL AND EACH NEW FIELD LEVEL CONTROLLER.

EACH NEW OR REFURBISHED PIECE OF EQUIPMENT ON PROJECT IS TO BE PROVIDED WITH A LONWORKS COMPATIBLE APPLICATION SPECIFIC (SOMETIMES TERMED FIELD-LEVEL) CONTROLLER BY THE MANUFACTURER, AND CONTROLS CONTRACTOR IS TO CONNECT NEW APPLICATION SPECIFIC CONTROLLER TO NEW LONWORKS TRUNK.

WHERE POSSIBLE, PROVIDE SPACES WITH STAINLESS STEEL FLAT-PLATE WALL THERMOSTATS INSTEAD OF THERMOSTATS WITH DISPLAYS. ALL TEMPERATURE CONTROLS ARE TO BE DONE THROUGH BAS. IF FLAT-PLATE THERMOSTAT CONTROLLERS ARE NOT AVAILABLE, PROVIDE LOCKABLE COVERS FOR ALL TEMPERATURE SENSORS.

CONTROLS CONTRACTOR TO PROVIDE OWNER WITH A COPY OF ALL CONTROLS LANGUAGE(S) USED ON PROJECT SO THAT DISTRICT MAY MANAGE ITS OWN PROGRAMMING ONCE WARRANTY PERIOD HAS ELAPSED.

WHEN POSSIBLE, ALL DATA CONTROL POINTS ARE TO BE NVI CLASSIFICATION ALLOWING FOR UNLIMITED READ/WRITE CAPABILITIES.

#### ROCKFORD SCHOOL DISTRICT TEMPERATURE CONTROLS WIRING STANDARD

CABLE SHALL BE 18 AWG WIRE, PLENUM RATED, SHIELDED

COLOR CODING TABLE (VERIFY FINAL COLOR CODING WITH SCHOOL DISTRICT AND SCHOOL DISTRICT'S CONTROLS MAINTENANCE CONTRACTOR PRIOR TO PURCHASE):

N2 BUS	BLUE
ANALOG INPUT CABLE	YELLOW
ANALOG OUTPUT CABLE	TAN
BINARY INPUT CABLE	ORANGE
BINARY OUTPUT CABLE	VIOLET
N1 BUS	PURPLE
24 VAC CABLE	GRAY
SPARE	WHITE
ETHERNET CAT-5	PURPLE
N2 E	PINK
ON CONTROLS DRAWINGS, DI/DO S SIGNALS, WHICH ARE BINARY INPU	YMBOLS REFER TO DIGITAL T / OUTPUT SYMBOLS

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 2 90% CD
 1 50% CD

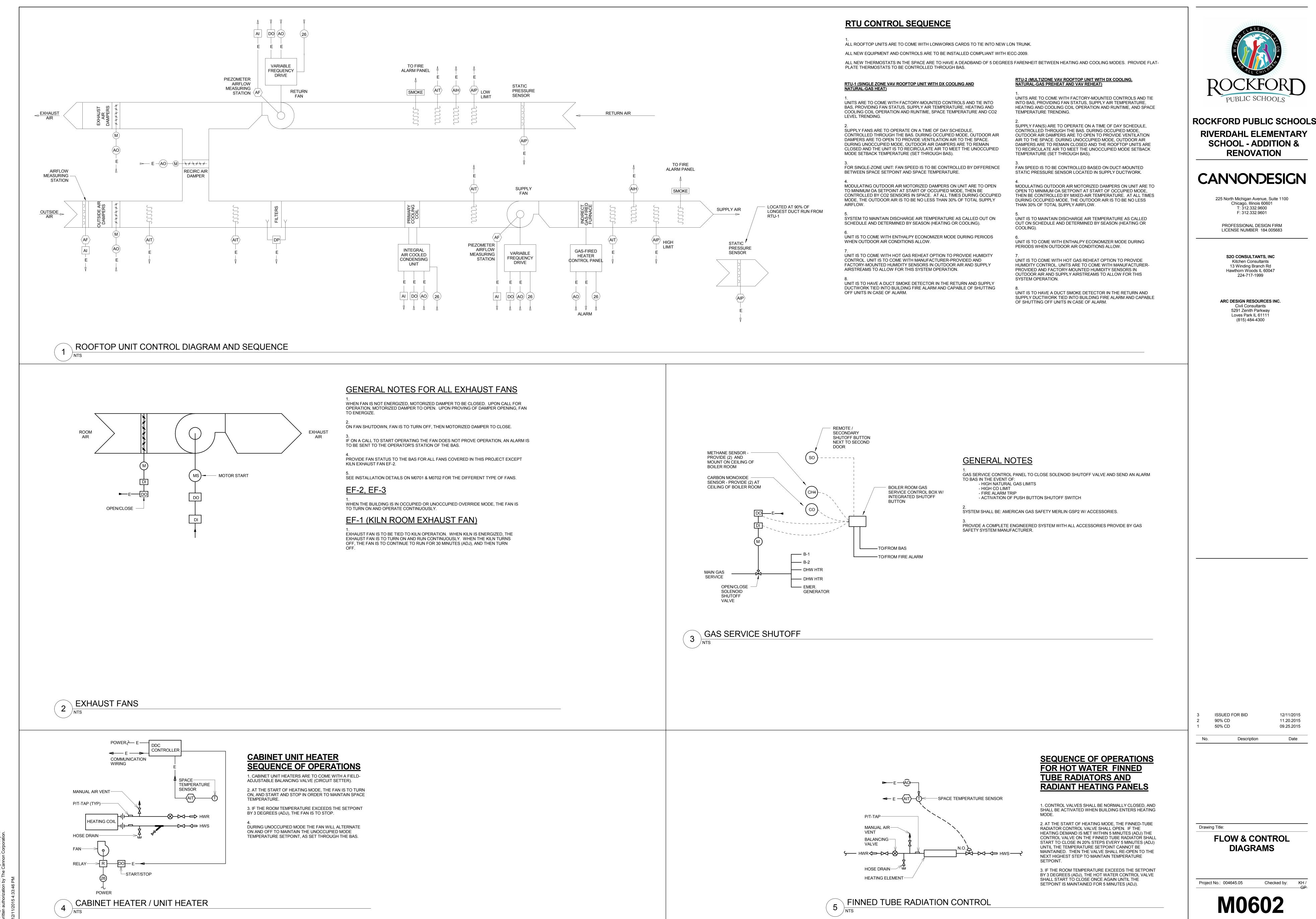
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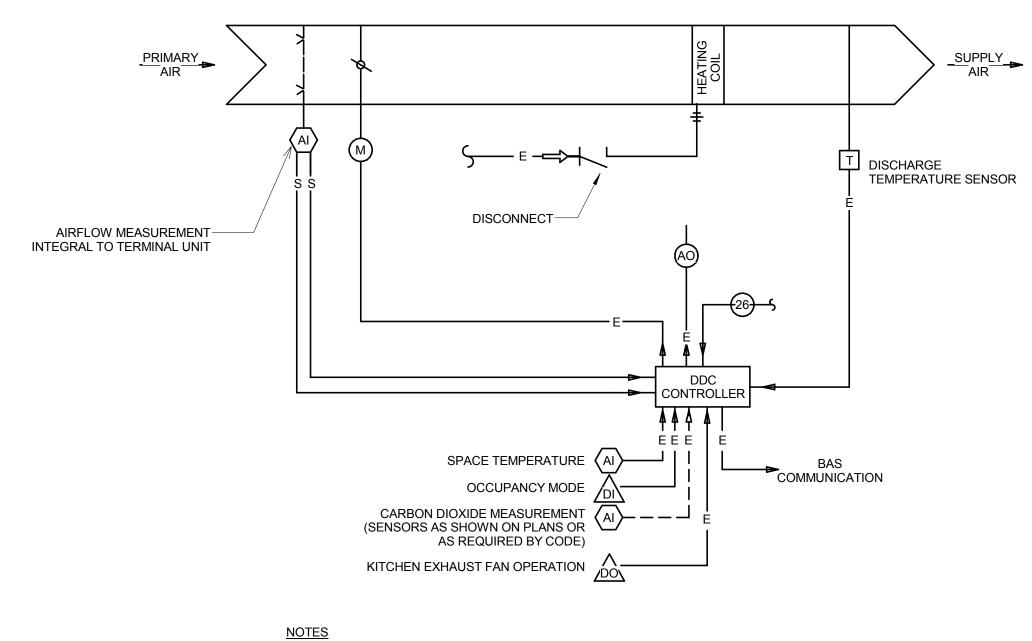
FLOW & CONTROL DIAGRAMS

Project No.: 004645.05

**M0601** 

11.20.2015





THROUGH THE BAS, ACTUAL SPACE TEMPERATURE AND SETPOINT AND ACTUAL AIRFLOW

AND SETPOINT SHALL BE READABLE AND ADJUSTABLE THROUGH THE BAS.

PPLY SEQUENCE OF OPERATION

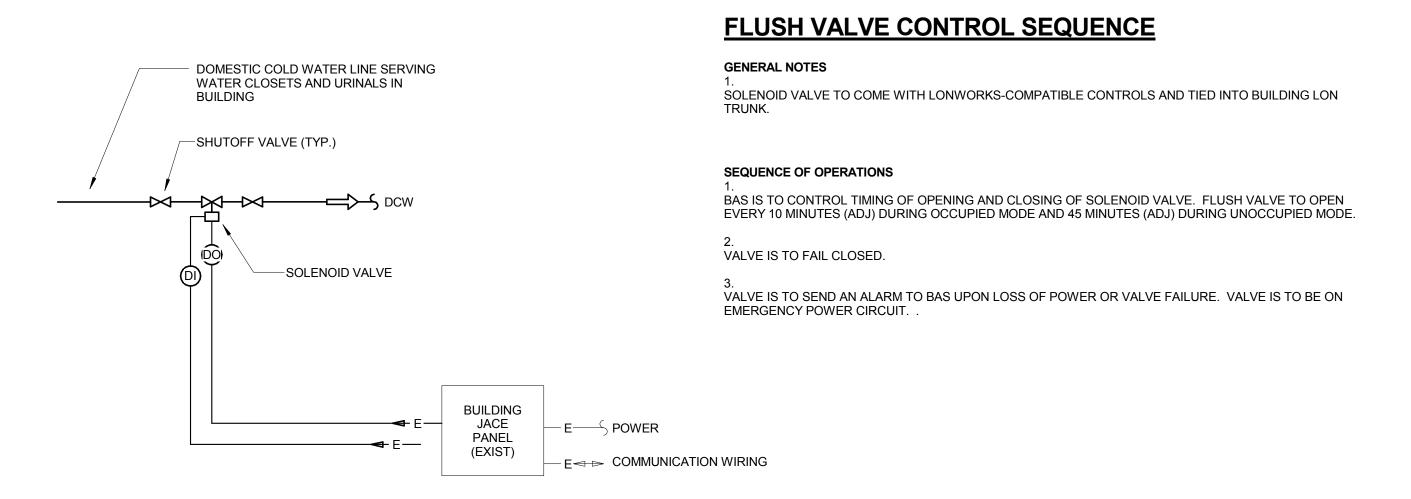
ALL VAV TERMINAL BOXES SHALL BE INDIVIDUALLY PROGRAMMED TO INCLUDE OCCUPIED/UNOCCUPED MODE BASED ON TIME-OF-DAY SCHEDULING

OCCUPIED MODE: THE TERMINAL BOX CONTROLLER SHALL RESPOND TO CHANGES IN SPACE TEMPERATURE AND VARIATIONS IN SYSTEM STATIC PRESSURE TO MODULATE SUPPLY AIR VOLUME. ON AN INCREASE SPACE TEMPERATURE, THE REHEAT COIL IS TO BE TURNED OFF WHILE THE TERMINAL BOX DAMPER MODULATES FROM A MINIMUM AIRFLOW POSITION TO MAXIMUM AIRFLOW POSITION. ON A DECREASE IN SPACE TEMPERATURE, THE DAMPER SHALL MODULATE FROM MAXIMUM TO MINIMUM POSITION. ON A CONTINUED DECREASE IN SPACE TEMPERATURE, THE REHEAT COIL SHALL POWER ON IN STEPS.

3.
UNOCCUPIED MODE: ZONE SPACE TEMPERATURE SETPOINT SHALL INDEX TO AN ADJUSTABLE TEMPERATURE RANGE, AS SHOWN ON M0601. THE MINIMUM SUPPLY AIR VOLUME SHALL INDEX TO ZERO CFM, PROVIDED THAT THE SPACE TEMPERATURE IS MAINTAINED WITHIN THE UNOCCUPIED TEMPERATURE RANGE. IF SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED RANGE, THE TERMINAL BOX AIRFLOW CONTROL VALVE WILL OPEN TO MAXIMUM AIRFLOW UNTIL SPACE TEMPERATURE FALLS 5°F BELOW THE RANGE MAXIMUM FOR 5 MINUTES. AT THAT TIME, THE TERMINAL BOX AIR DAMPER SHALL RETURN TO ZERO CFM.

IF SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED RANGE, THE TERMINAL BOX AIRFLOW CONTROL VALVE WILL OPEN TO OCCUPIED MINIMUM AIRFLOW POSITION AND THE REHEAT COIL WILL POWER ON IN STEPS UNTIL THE SPACE TEMPERATURE RISES 5° F ABOVE THE RANGE MINIMUM FOR 5 MINUTES. AT THAT TIME, TERMINAL BOX REHEAT COIL CONTROL VALVE WILL CLOSE AND THE AIRFLOW DAMPER SHALL RETURN TO ZERO CFM.

1 VAV TERMINAL UNIT WITH ELECTRIC REHEAT



WATER CLOSET / URINAL FLUSH VALVE

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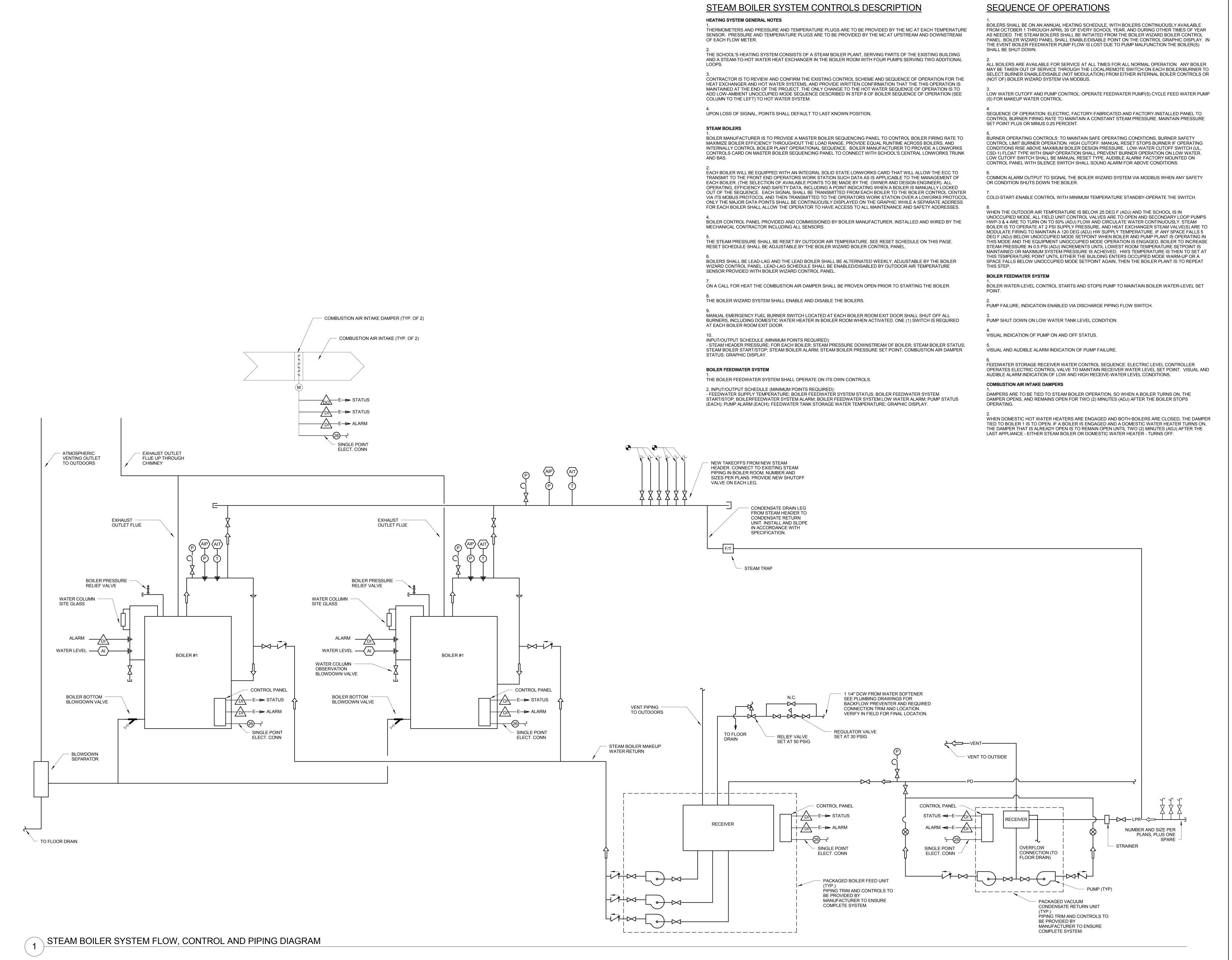
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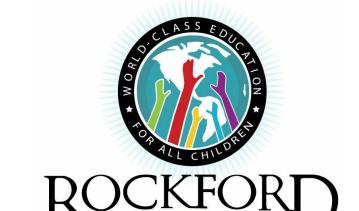
Drawing Title:

FLOW & CONTROL DIAGRAMS

Project No.: 004645.05 Chec

M0603





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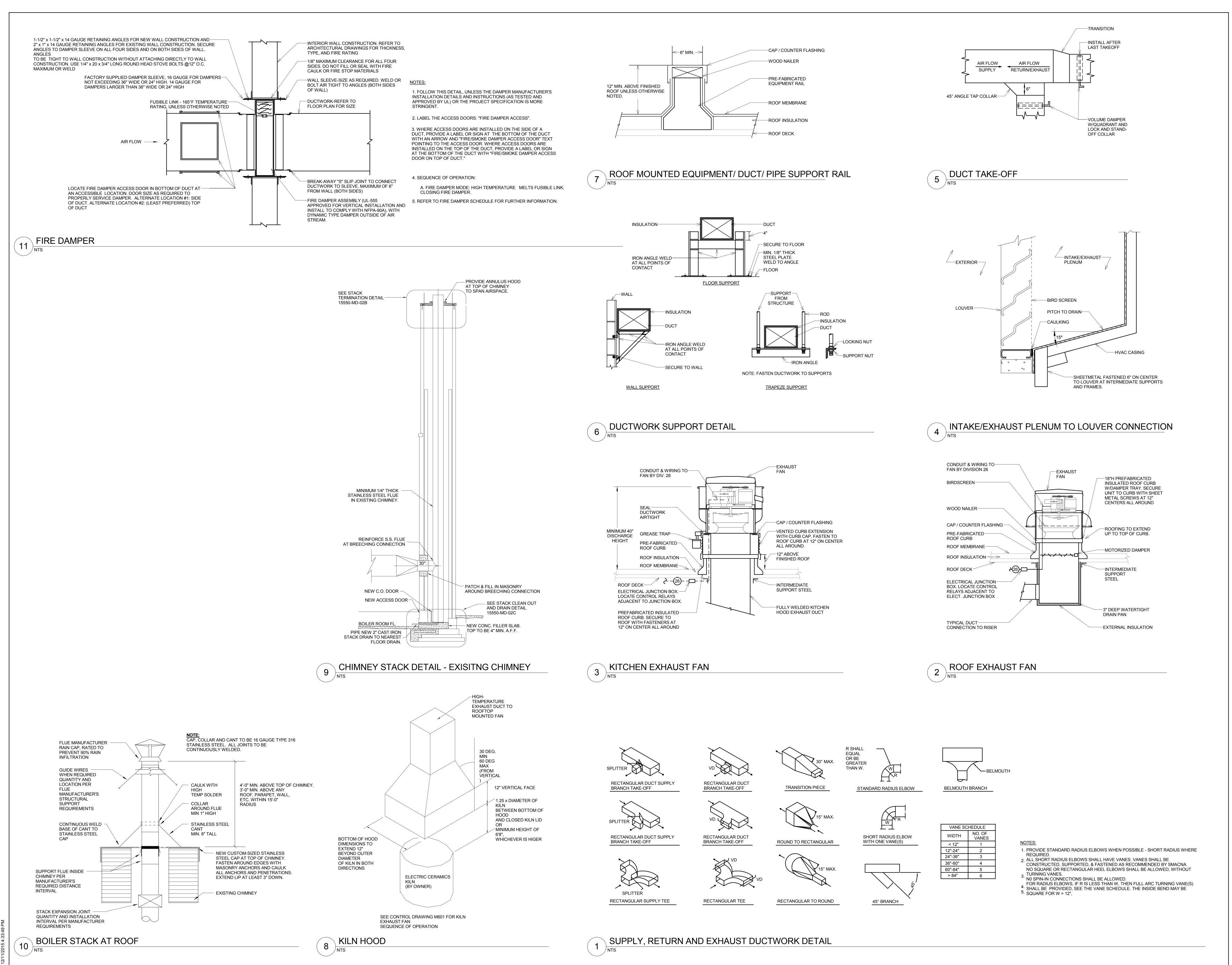
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Drawing Title:

FLOW, CONTROL, PIPING **DIAGRAM** 

Project No.: 004645.05 Checked by: KH /



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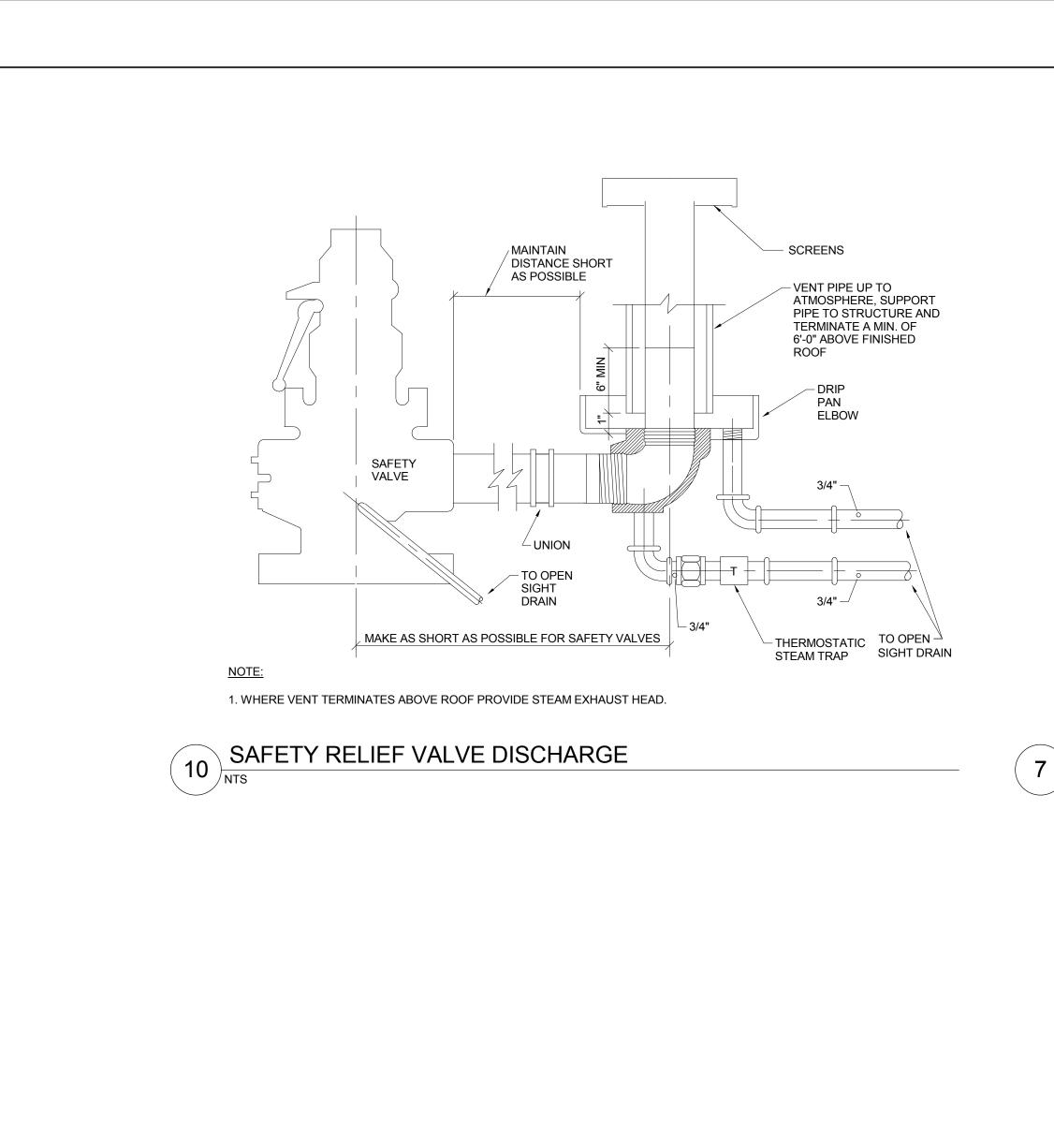
S ISSUED FOR BID 12/11/2015 90% CD 11.20.2015 50% CD 09.25.2015 No. Description Date

HVAC DUCTWORK & GENERAL DETAILS

Project No.: 004645.05 Checked by: KH /

M0701

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STRAINER W/HOSE

ENDED BLOWDOWN VALVE & CAP

THREADED AND

FULL SIZE OF

RETURN LINE COND. RETURN

AUTOMATIC AIR VENT

6" NIPPLE

HIGH POINT OF WATER

6" LONG DIRT LEG

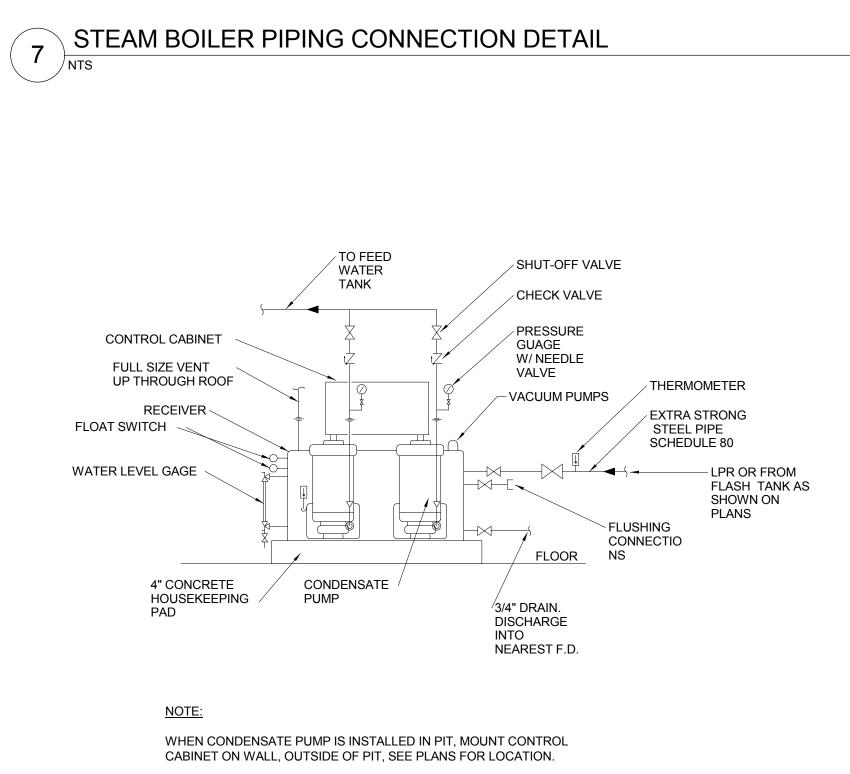
(SAME SIZE AS MAIN)

STEAM TRAP. SEE SPECS

OR DRAWINGS FOR TYPE

SHUT-OFF VALVE (TYP.)

CHECK VALVE



ROUTE TO 10" ABOVE THE FLOOR

SIDE VIEW

STEAM HEADER

LOW WATER CUT-OFF

BURNER

6" CONCRETE

**BOILER ROOM** 

HOUSE KEEPING PAD

6 CONDENSATE VACUUM PUMP DETAIL

AND FEEDWATER CONTROL

\_SEE 15550-MD-1B SAFETY VALVE DETAIL

HIGH WATER LEVEL ALARM

LOW WATER LEVEL ALARM

-1-1/2" SURFACE

BLOWDOWN

CONNECT TO

BLOWDOWN SYSTEM

BAROMETRIC DAMPER

2" ABOVE NORMAL WATER LEVEL

BOTTOM BLOWDOWN

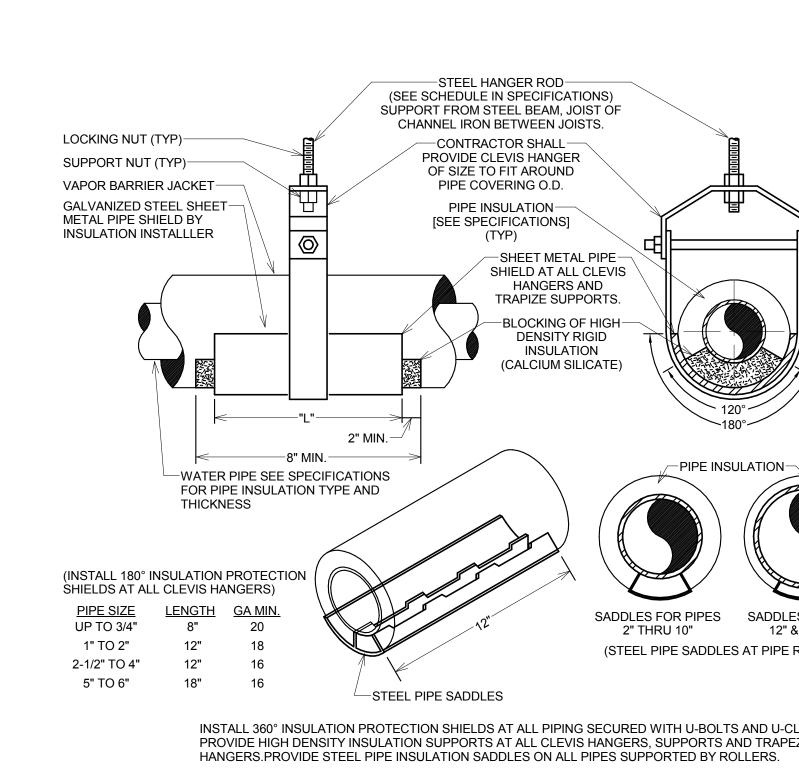
TO BE DISCHARGED

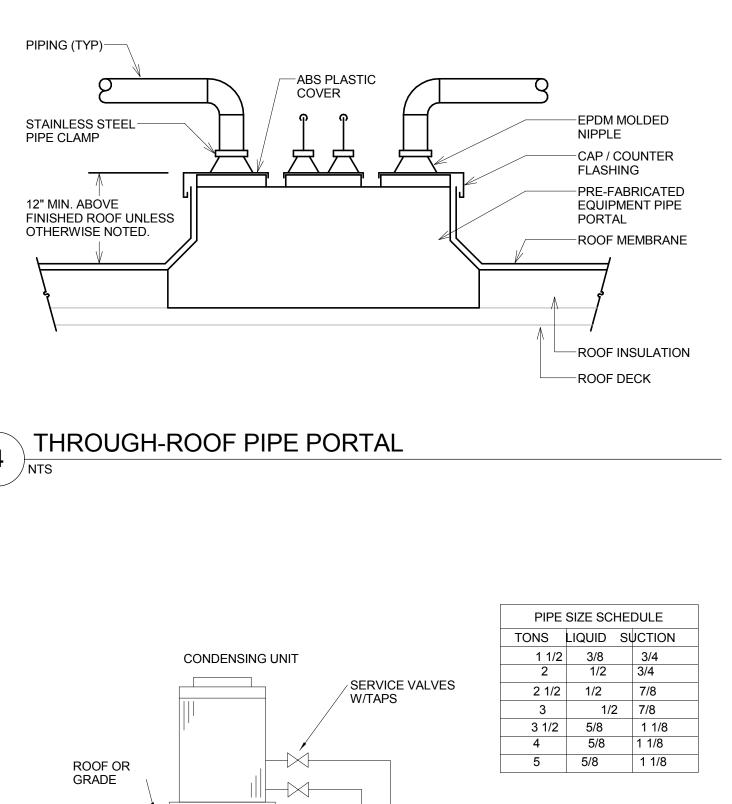
TO FLOOR DRAIN

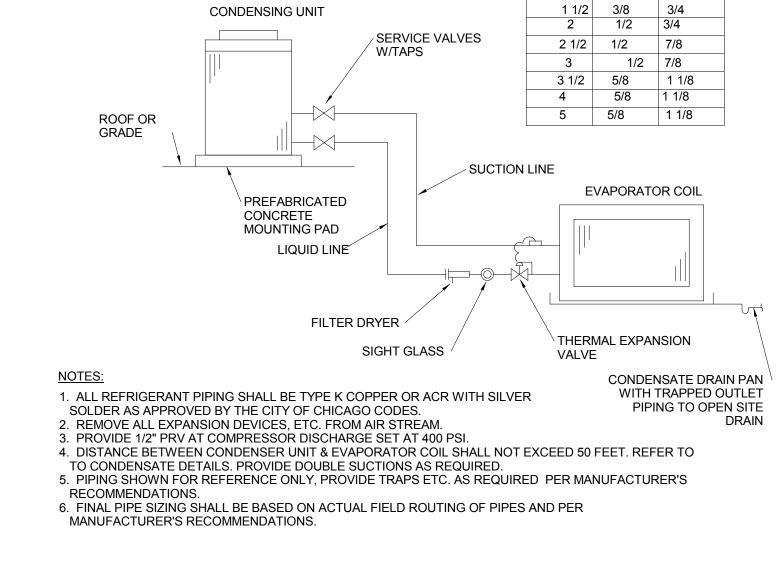
SYSTEM

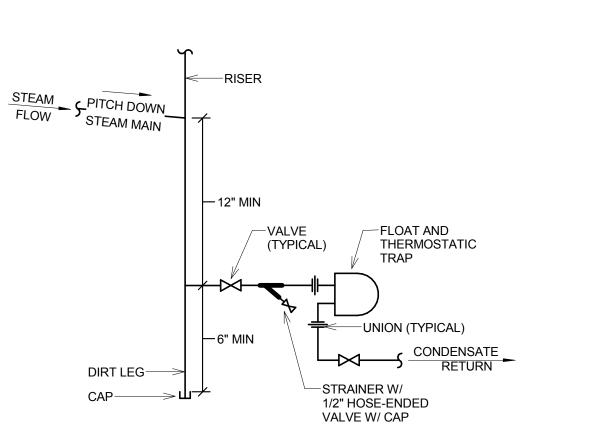
CONDENSATE RETURN

3/4" PIPE CONNECTION

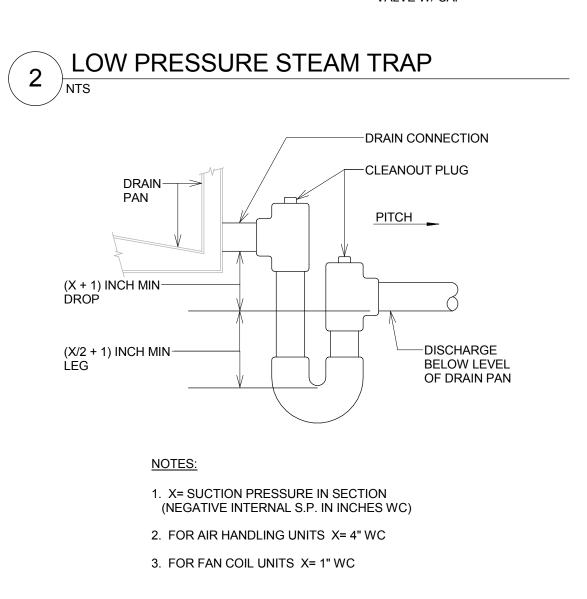








SPLIT SYSTEM REFRIGERANT PIPING DIAGRAM





Checked by: KH /

12/11/2015

11.20.2015

09.25.2015

Date

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TO SUIT AIR VENT TAPPING VALVE REDUCER 1. USE FULL SIZE TEE OR 2" BRANCH OFF OF ELBOW (WHICHEVER IS SMALLER)

**AUTOMATIC AIR VENT** 

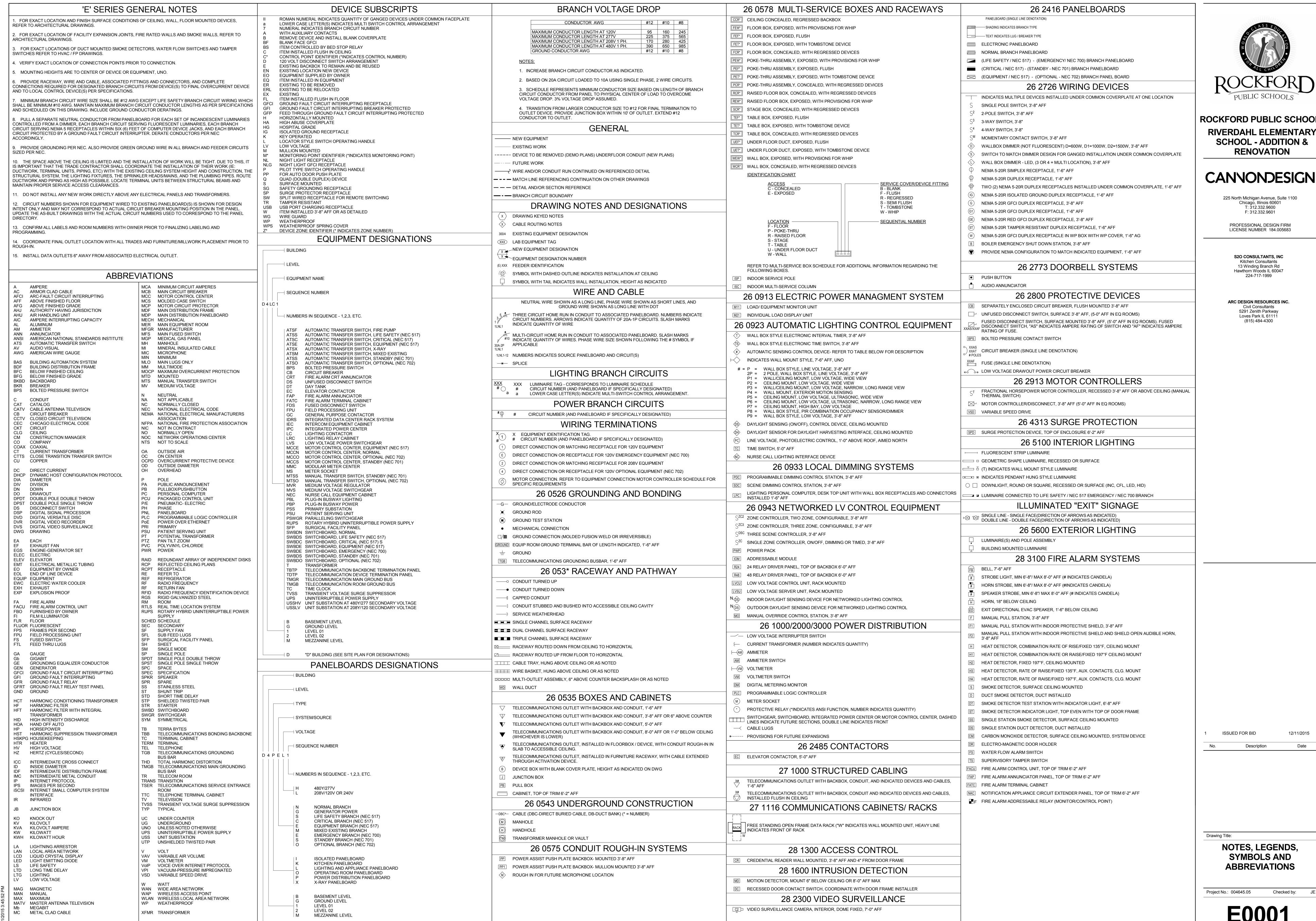
1/4" COPPER

TUBING TO DRAIN

LOCATION

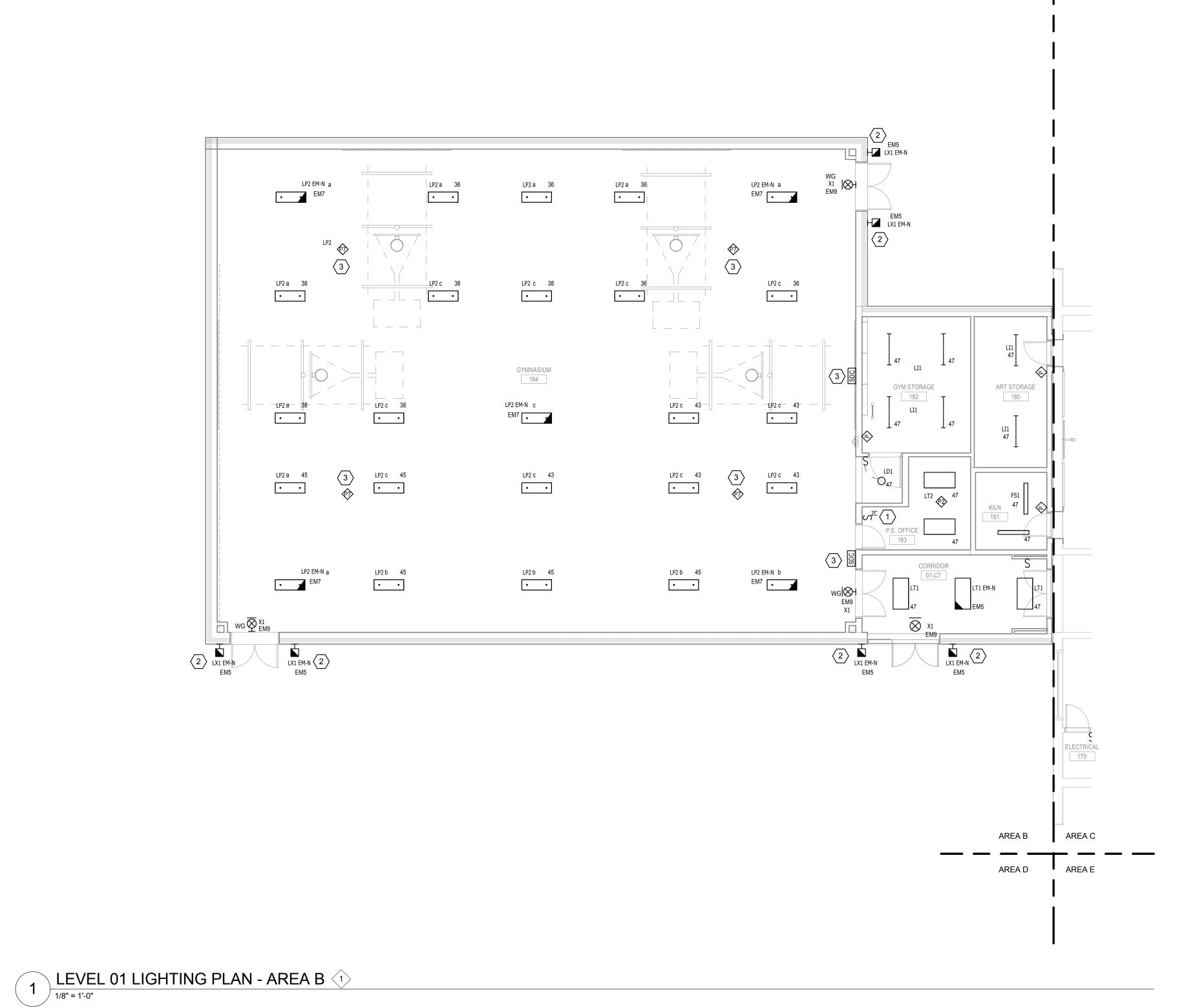
SADDLES FOR PIPES SADDLES FOR PIPES 12" & LARGER (STEEL PIPE SADDLES AT PIPE ROLLERS) INSTALL 360° INSULATION PROTECTION SHIELDS AT ALL PIPING SECURED WITH U-BOLTS AND U-CLAMPS. PROVIDE HIGH DENSITY INSULATION SUPPORTS AT ALL CLEVIS HANGERS, SUPPORTS AND TRAPEZE PIPE COVERING PROTECTION SHIELDS & PIPE SADDLES

NTS



"D" BUILDING (SEE SITE PLAN FOR DESIGNATIONS"

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PROVIDE LOW VOLTAGE LIGHT CONTROL SYSTEM BY INLIGHT LIGHTING CONTROLS. PROVIDE A PUSH BUTTON ON/OFF SWITCH WITH DIMMING, A CEILING OCCUPANCY SENSOR, AND A DIMMING POWER PACK LOCATED AT THE CEILING. ALL LIGHTING CONTROL DEVICES AND ALL LIGHT FIXTURES SHALL BE DAISY CHAINED WITH CAT6 CABLE THAT WILL TERMINATE AT A INBRIDGE DEVICE. SEE WIRING DIAGRAMS FOR ADDITIONAL INFORMATION.

EXTERIOR PERIMETER LIGHT FIXTURES SHALL BE INTERFACED WITH nLIGHT RELAY PANEL RC1 LOCATED AT ELECTRICAL ROOM. PROVIDE nLIGHT RELAY PANEL [nPANEL 4-1EBC] WITH EMERGENCY BARRIER. RELAY ABOVE BARRIER SHALL BE INTERFACED WITH EMERGENCY CIRCUIT EM3 FOR PERIMETER WALL PACKS. RELAYS BELOW BARRIER SHALL BE INTERFACED WITH NORMAL CIRCUITS PERIMETER WALL PACKS.

PROVIDE LOW VOLTAGE LIGHTING CONTROL SYSTEM BY nLIGHT LIGHTING CONTROLS AT GYM. PROVIDE nLIGHT-ENABLED HIGH BAY OCCUPANCY SENSORS (CEILING MOUNT), 4-SCENE WALL CONTROLLERS, AND POWER PACKS. ALL LIGHTING CONTROL DEVICES AND LIGHT FIXTURES SHALL BE DAISY CHAINED WITH CAT6 CABLE THAT WILL TERMINATE AT A nBRIDGE DEVICE THAT WILL BE PROVIDED BY THE OWNER. PROVIDE 20-FEET OF COILED CAT6 CABLE IN THE CEILING CAVITY.

#### BRANCH CIRCUIT NOTES :

1. EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:

120 / 208V PANELBOARDS 1LNLC1 - NORMAL POWER (ELECTRICAL 170) G-EM - LIFE SAFETY POWER. UTILIZE EXISTING SPACES/SPARE CIRCUITS. PROVIDE NEW 20A-1P CIRCUIT BREAKERS AS REQUIRED. ROCKFOR

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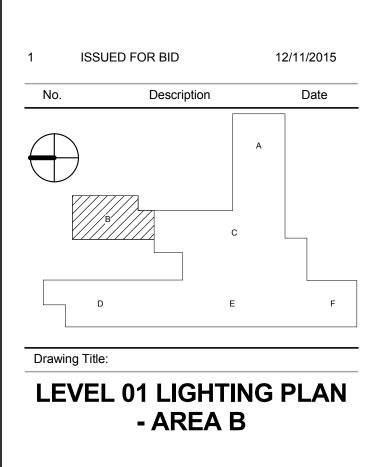
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E0101.B

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EXTERIOR PERIMETER LIGHT FIXTURES SHALL BE INTERFACED WITH nLIGHT RELAY PANEL RC1 LOCATED AT ELECTRICAL ROOM. PROVIDE NLIGHT RELAY PANEL [NPANEL 4-1EBC] WITH EMERGENCY BARRIER. RELAY ABOVE BARRIER SHALL BE INTERFACED WITH EMERGENCY CIRCUIT EM5 FOR PERIMETER WALL PACKS. RELAYS BELOW BARRIER SHALL BE INTERFACED

UTILIZE EXISTING CIRCUITS TO CONNECT NEW LIGHT FITURES. INTERFACE WITH NEW LIGHTING

PROVIDE A DEDICATED [nPANEL] RELAY PANELS RC1 BY nLIGHT LIGHTING CONTROLS FOR CONTROL OF PERIMITER WALL PACKS. CONNECT TO A 120V CIRCUIT AT PANEL 1LNLC1. PROVIDE A [nPANEL 4-1EBC] RELAY PANEL RC1 FOR THE EXTERIOR WALL PACK (NORMAL AND EMERGENCY) CIRCUITS. PROVIDE nLIGHT RELAY PANEL [nPANEL 4-1EBC] WITH EMERGENCY BARRIER. RÉLAY ABOVE BARRIER SHALL BE INTERFACED WITH EMERGENCY CIRCUIT EM1 FOR PERIMETER WALL PACKS. RELAYS BELOW BARRIER SHALL BE INTERFACED WITH NORMAL

1. EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:

120 / 208V PANELBOARDS NORMAL - CONNECT TO EXISTING LIGHTING CIRCUITS MADE AVAILABLE DURING DEMOLITION. INTERFACE WITH NEW LIGHTING CONTROLS AS SHOWN. CIRCUIT NUMBERS ARE FOR REFERENCE ONLY.

G-EM - LIFE SAFETY POWER. UTILIZE EXISTING SPACES. PROVIDE NEW 20A-1P CIRCUIT BREAKERS.

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LEVEL 01 LIGHTING PLAN
- AREA C

E0101.C



LEVEL 01 LIGHTING PLAN - AREA E 1



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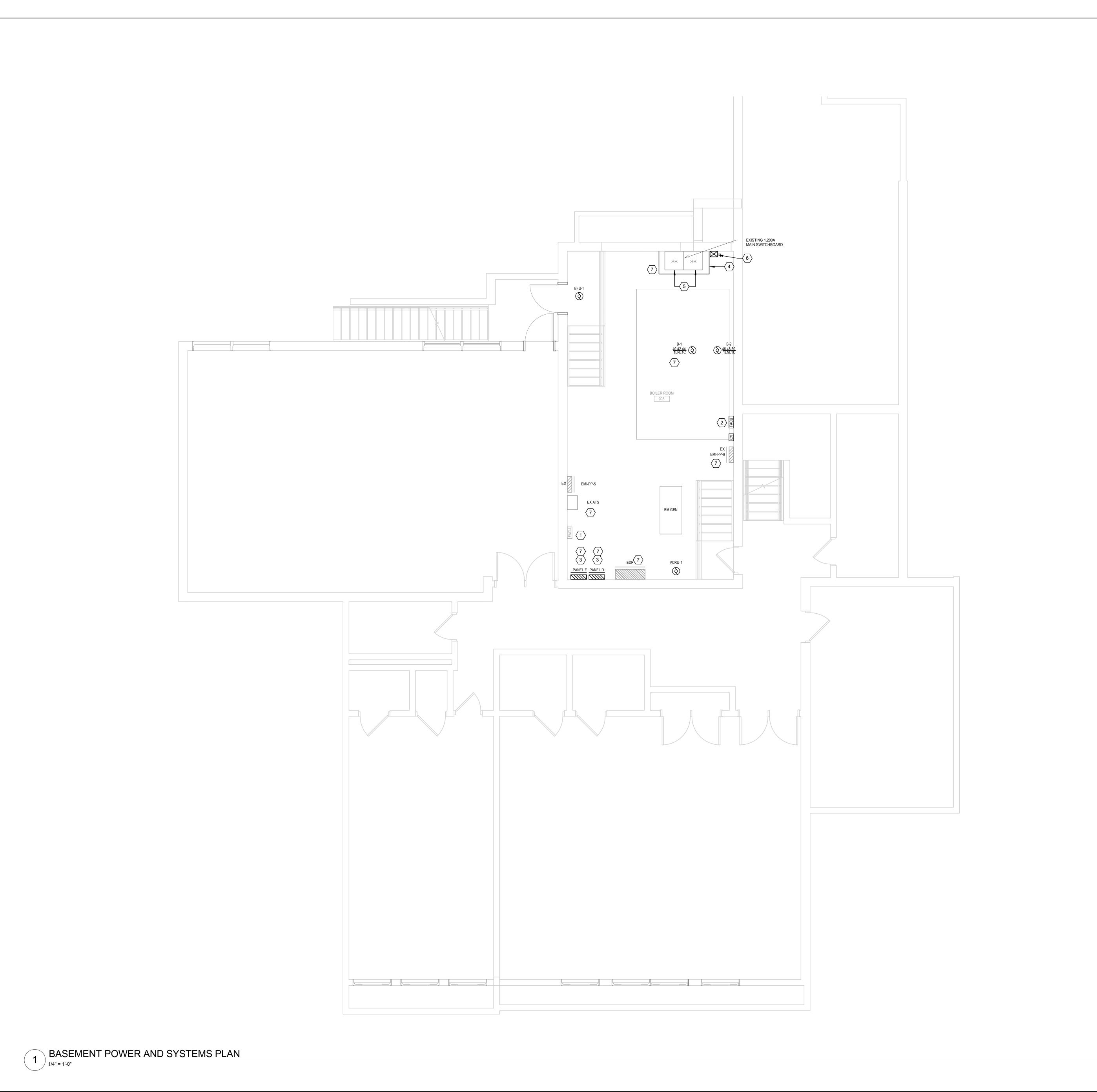
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**LEVEL 01 LIGHTING PLAN** - AREA E

E0101.E



EXISTING FIRE ALARM CONTROL PANEL TO BE REMOVED AND REPLACED WITH NEW.

NEW FIRE ALRM CONTROL PANEL. CONNECT ALL EXISTING DEVICES TO NEW PANEL. PROVIDE ALL NAC PANELS, SYNCH MODULES AND ACCESSORIES TO ACCOMODATE NEW PANEL. CONNECT NEW FACU TO AN EMERGENCY CIRCUIT.

3.
PROVIDE NEW 42-POLE BRANCH CIRCUIT ELECTRICAL PANEL TO REPLACE EXISTING PANEL.
TRANSFER ALL EXISTING LOADS TO NEW PANEL. COORDINATE ANY DOWNTIME WITH RPS
BEFORE COMMENCING ANY WORK.

PROVIDE 4-INCH CONCRETE CURB AROUND EXISTING SWITCHBOARD.

REMOVE CORRODED BASE OF THE EXISTING SWITCHBOARD (BOTH SECTIONS) AND FABRICATE NEW PARTS TO REPLACE CORRODED PIECES.

PROVIDE NEW 600A DISCONNECTSWITCH TAPPED OFF THE BUS OF THE MAIN SWITCHBOARD.

PROVIDE DRIP PANS OVER ALL ELECTRICAL DISTRIBUTION EQUIPMENT LOCATED IN THE BOILER ROOM. COORDINATE EXACT LOCATIONS WITH MECHANICAL DRAWINGS AND EXISTING PIPING.

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No. Description

B C

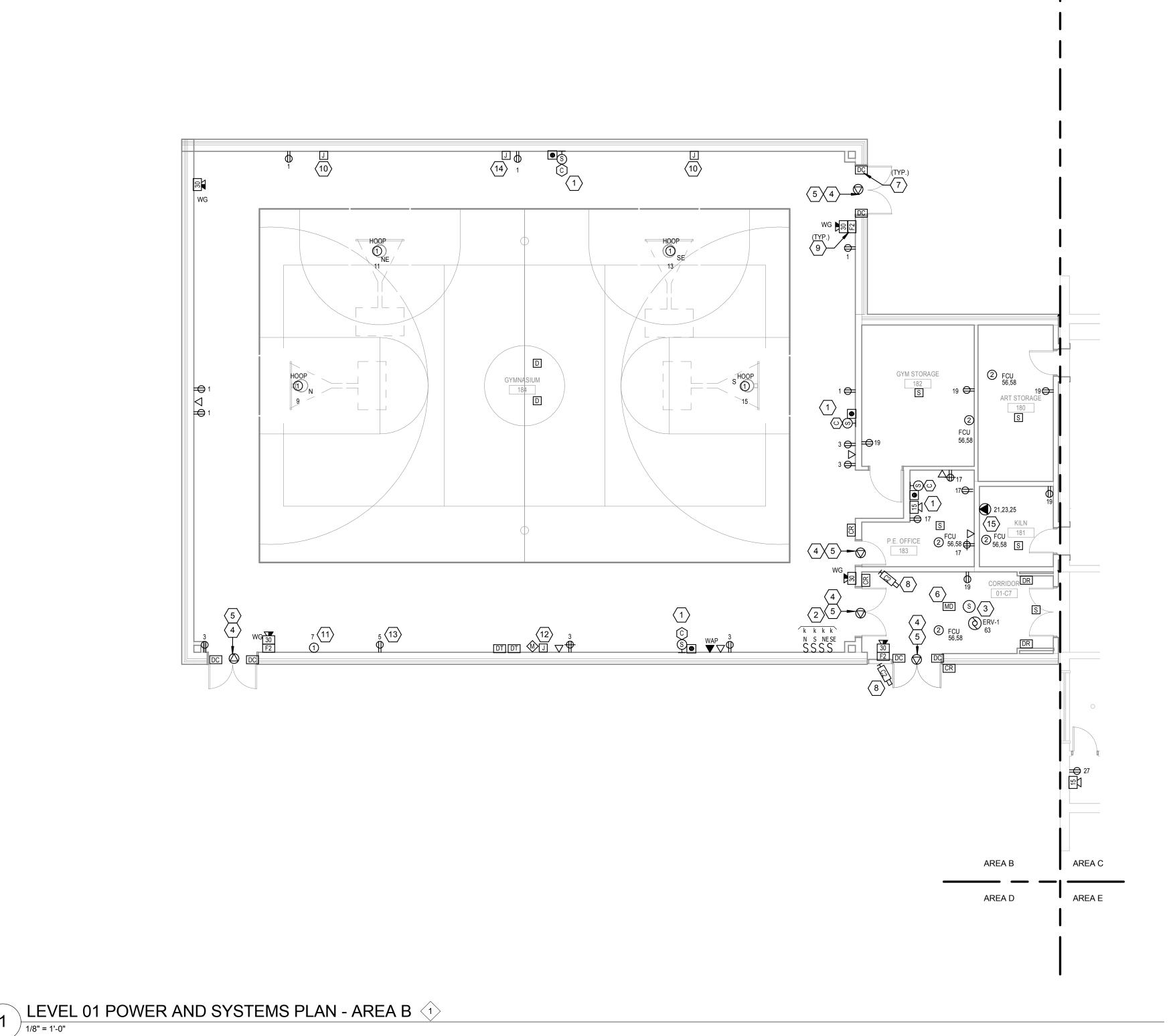
Drawing Title:

BASEMENT POWER AND

SYSTEMS PLAN

Project No.: 004645.05

E0200



INTERCOM SPEAKER, CALL SWITCH, AND CLOCK SHALL BE PROVIDED BY RPS.
PROVIDE CATEGORY 6 CABLE AND BACKBOXES AT ALL THREE LOCATIONS.
CONTRACTOR SHALL TEST AND TERMINATE CABLE. EACH LOCATION SHALL BE A
SEPERATE HOMERUN TO THE DESIGNATED IDF ROOM.

KEY OPERATED SWITCHES FOR MOTORIZED BACKSTOPS. ENGRAVE COVERPLATES WITH N, S, NE, AND SE BACKSTOP LETTERING. PROVIDE ALL CONTROL WIRING AND INTERFACE WITH BACKSTOP MOTORS AS REQUIRED.

FUTURE SPEAKER LOCATION. EACH SPEAKER LOCATION SHALL CONSIST OF 20'-0" CATEGORY 6 CABLE COIL. HOMERUN TO LAN ROOM. CONFIRM EXACT LOCATION WITH RPS PRIOR TO ROUGH-IN.

APPROXIMATE LOCATION OF DATA JACK FOR FUTURE DOOR ACCESS CONTROL SYSTEM, WITH 20'-0" SERVICE LOOP OF DATA CABLING WITH CLEAR MALE JACK. VERIFY EXACT LOCATIONS WITH RPS.

5.
PROVIDE 1/2" CONDUIT STUBBED INTO DOOR FRAME FOR OWNER PROVIDED
SECURITY WIRING. EXTEND CONDUIT TO ACCESSIBLE CEILING LOCATION THROUGH
PARTITION TO ELECTRIC STRIKE LOCATION.

o. PROVIDE 22/4 CABLE HOMERUN BACK TO MDF ROOM FOR MOTION DETECTOR. COIL 10'-0" OF CABLE AT THE FUTURE SECURITY PANEL LOCATION.

PROVIDE 22/2 CABLE TO EACH DOOR CONTACT LOCATION, AND TERMINATE AT MDF ROOM. DEVICES SHALL BE PROVIDED BY RPS.

PROVIDE BACKBOX AND CATEGORY 6 CABLE AT SECURITY CAMERA LOCATION. EQUIPMENT SHALL BE PROVIDED BY RPS.

ALL MANUAL PULL STATIONS SHALL BE PROVIDED WITH STOPPER II COVER WITH

SOUNDER.
10

VERIFY LOCATIONS OF UNDERFLOOR FANS. PROVIDE 2#18 AWG AT EACH FAN FROM HUMIDISTAT CONTROL PANEL.

PROVIDE 120V CONNECTION TO DEHUMIDIFICATION UNDER FLOOR SYSTEM.
CONTROL PANEL SHALL BE LOCATED RIGHT ABOVE THE FLOOR WITH METAL BLANK
COVER. PROVIDE 2#18 AWG WIRE TO HUMIDISTAT BELOW FLOOR. PROVIDE 2#18 AWG
WIRES TO THE TWO EXHAUST FANS. PROVIDE ALL WIRING AND TERMINATIONS PER
MANUFACTURERS INSTRUCTIONS.

PROVIDE 1-INCH STUB-UP FOR SCOREBOARD CONTROL WIRING. CONFIRM EXACT LOCATIONS WITH RPS.

PROVIDE RECEPTACLE FOR SCOREBOARD. CONFIRM EXACT LOCATION WITH RPS.

SCOREBOARD LOCATION. PROVIDE 1"C TO DESIGNATED SCORERS TABLE LOCATION. VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF WIRING DEVICES PRIOR TO ROUGH-IN.

PROVIDE NEMA 15-50 RECEPTACLE FOR KILN EQUIPMENT. PROVIDE 4#6, 1#10G IN 1-1/4" C. CONNECT TO PANEL 1LNLC1, 50A-3P CIRCUIT BREAKER. PROVIDE 50A-3P CIRCUIT BREAKER AT PANEL.

#### BRANCH CIRCUIT NOTES :

1. EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:

120 / 208V PANELBOARDS 1LNLC1 - NORMAL POWER (ELEC 170) EM - LIFE SAFETY POWER. UTILIZE EXISTING SPACES. PROVIDE NEW 20A-1P CIRCUIT BREAKERS AT PANEL.



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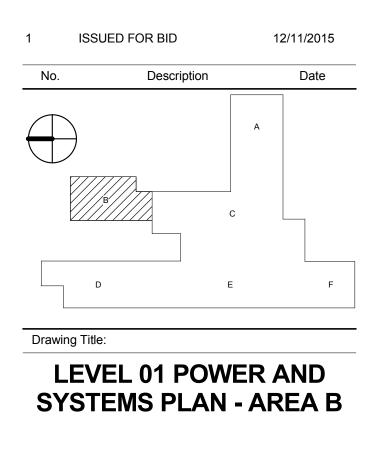
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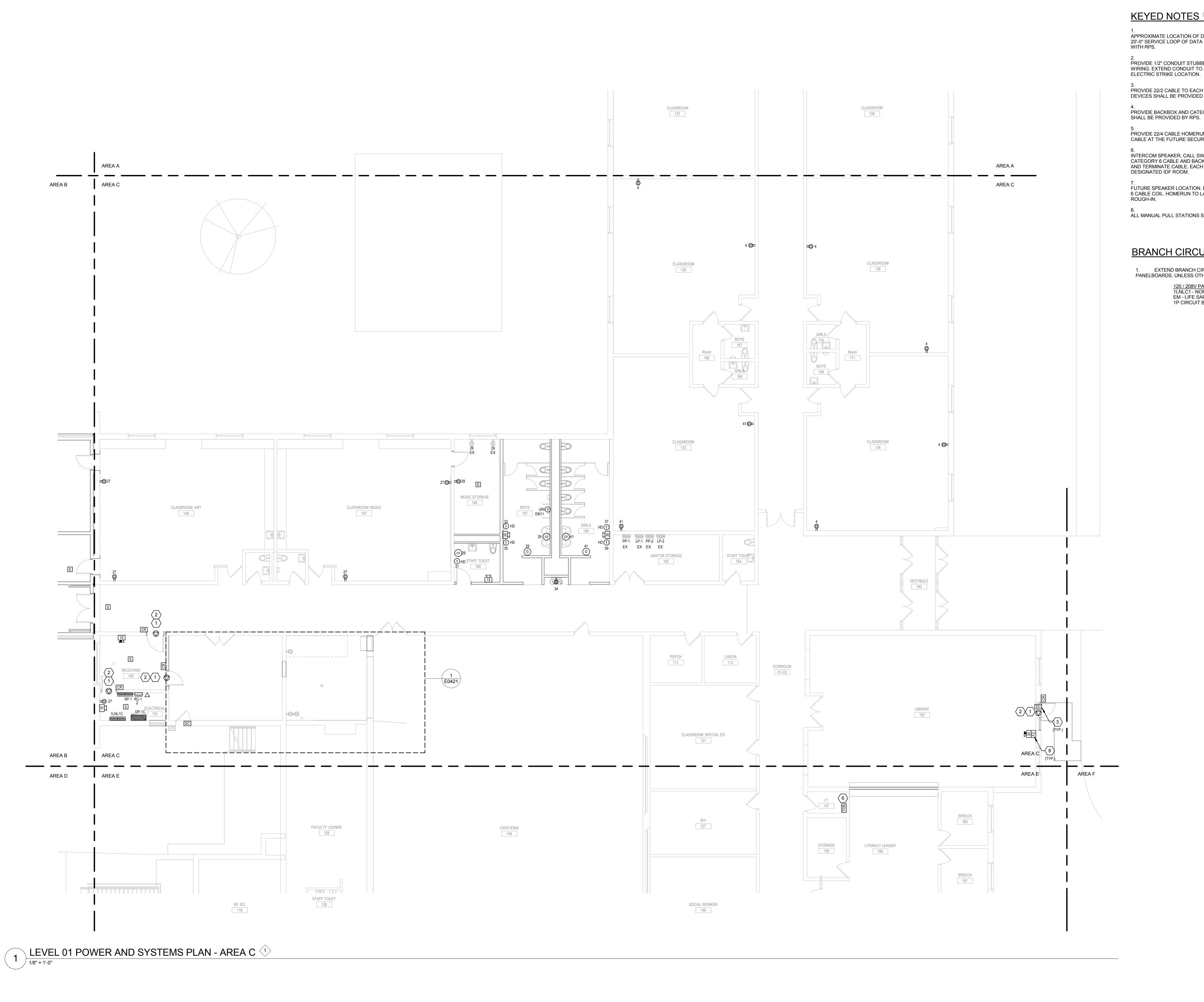
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E0201.B



APPROXIMATE LOCATION OF DATA JACK FOR FUTURE DOOR ACCESS CONTROL SYSTEM, WITH 20'-0" SERVICE LOOP OF DATA CABLING WITH CLEAR MALE JACK. VERIFY EXACT LOCATIONS

PROVIDE 1/2" CONDUIT STUBBED INTO DOOR FRAME FOR OWNER PROVIDED SECURITY WIRING. EXTEND CONDUIT TO ACCESSIBLE CEILING LOCATION THROUGH PARTITION TO ELECTRIC STRIKE LOCATION.

PROVIDE 22/2 CABLE TO EACH DOOR CONTACT LOCATION, AND TERMINATE AT MDF ROOM. DEVICES SHALL BE PROVIDED BY RPS.

PROVIDE BACKBOX AND CATEGORY 6 CABLE AT SECURITY CAMERA LOCATION. EQUIPMENT

PROVIDE 22/4 CABLE HOMERUN BACK TO MDF ROOM FOR MOTION DETECTOR. COIL 10'-0" OF CABLE AT THE FUTURE SECURITY PANEL LOCATION.

INTERCOM SPEAKER, CALL SWITCH, AND CLOCK SHALL BE PROVIDED BY RPS. PROVIDE CATEGORY 6 CABLE AND BACKBOXES AT ALL THREE LOCATIONS. CONTRACTOR SHALL TEST AND TERMINATE CABLE. EACH LOCATION SHALL BE A SEPERATE HOMERUN TO THE DESIGNATED IDF ROOM.

FUTURE SPEAKER LOCATION. EACH SPEAKER LOCATION SHALL CONSIST OF 20'-0" CATEGORY 6 CABLE COIL. HOMERUN TO LAN ROOM. CONFIRM EXACT LOCATION WITH RPS PRIOR TO

ALL MANUAL PULL STATIONS SHALL BE PROVIDED WITH STOPPER II COVER WITH SOUNDER.

#### BRANCH CIRCUIT NOTES :

1. EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:

120 / 208V PANELBOARDS 1LNLC1 - NORMAL POWER EM - LIFE SAFETY POWER. UTILIZE EXISTING SPACES. PROVIDE NEW 20A-1P CIRCUIT BREAKERS AT PANEL.



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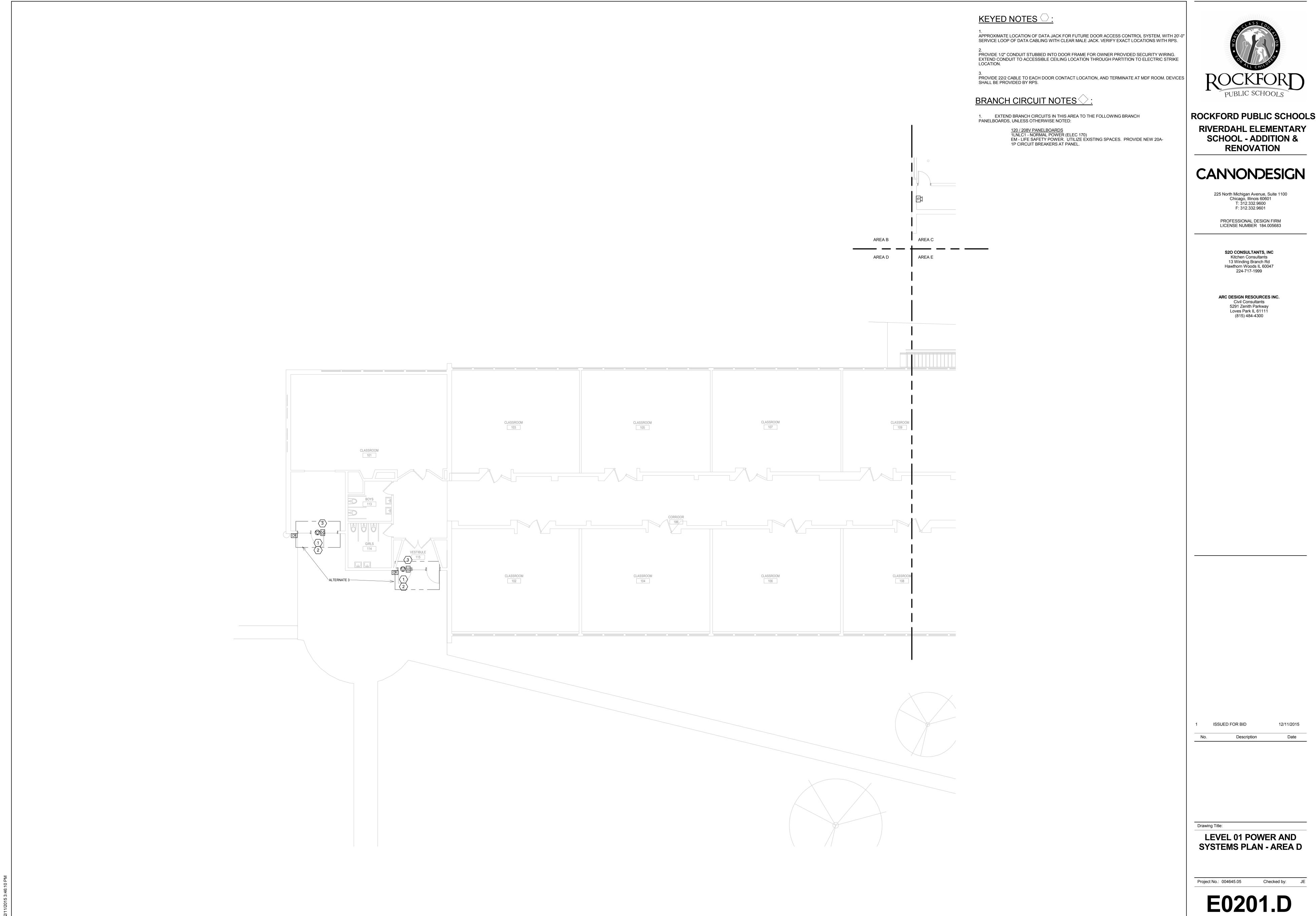
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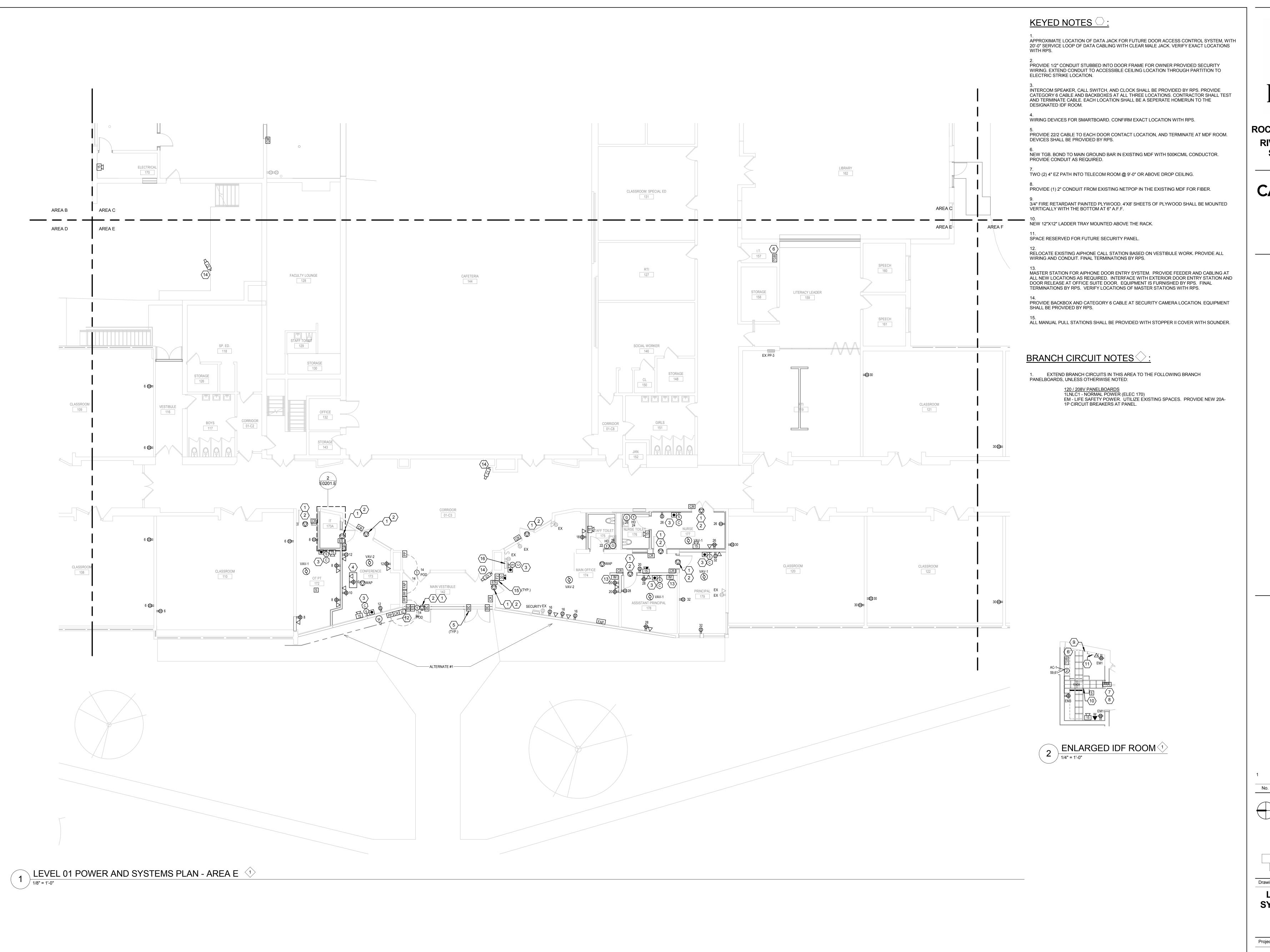
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**LEVEL 01 POWER AND** SYSTEMS PLAN - AREA C

E0201.C



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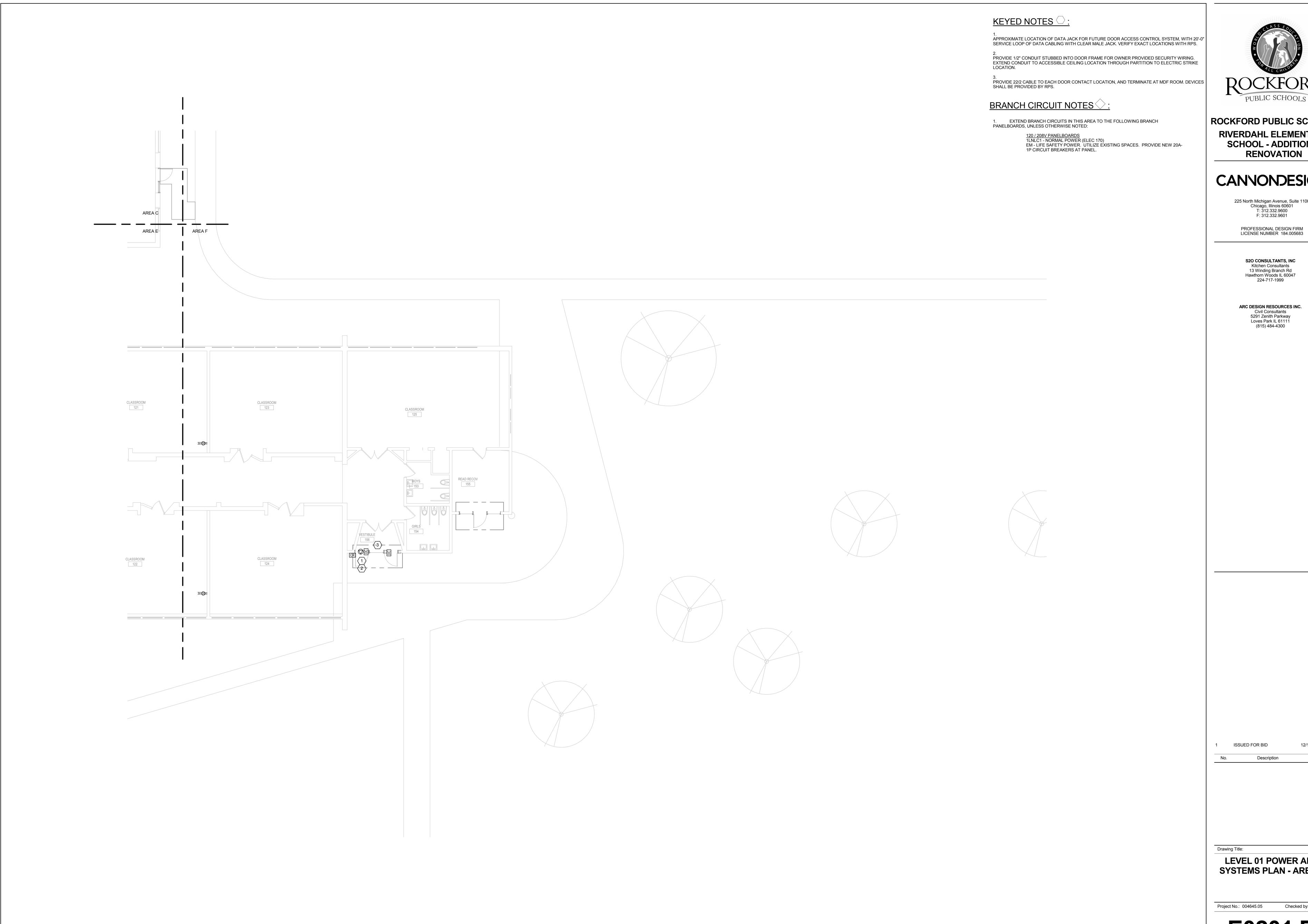
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**LEVEL 01 POWER AND** SYSTEMS PLAN - AREA E

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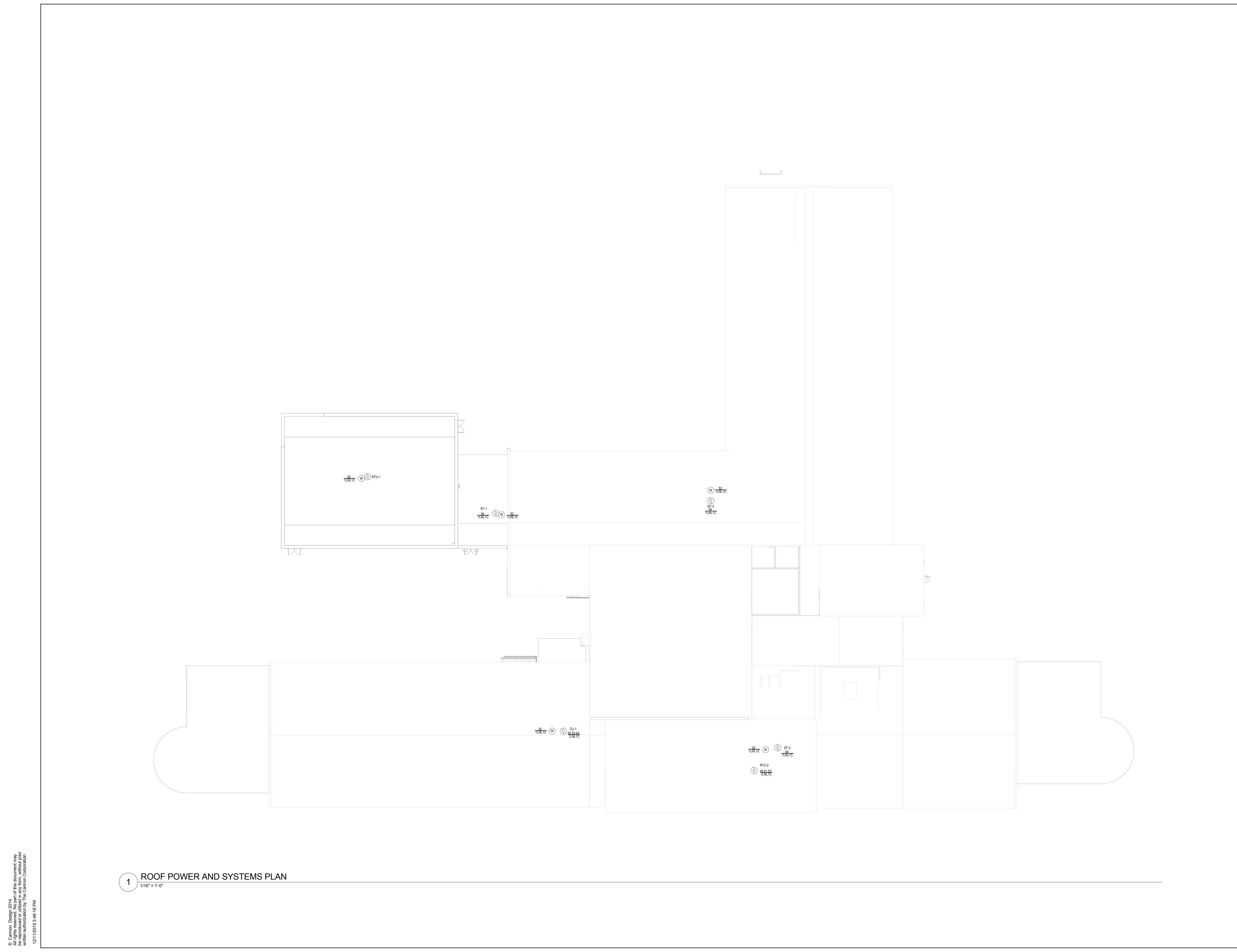
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LEVEL 01 POWER AND SYSTEMS PLAN - AREA F

Description

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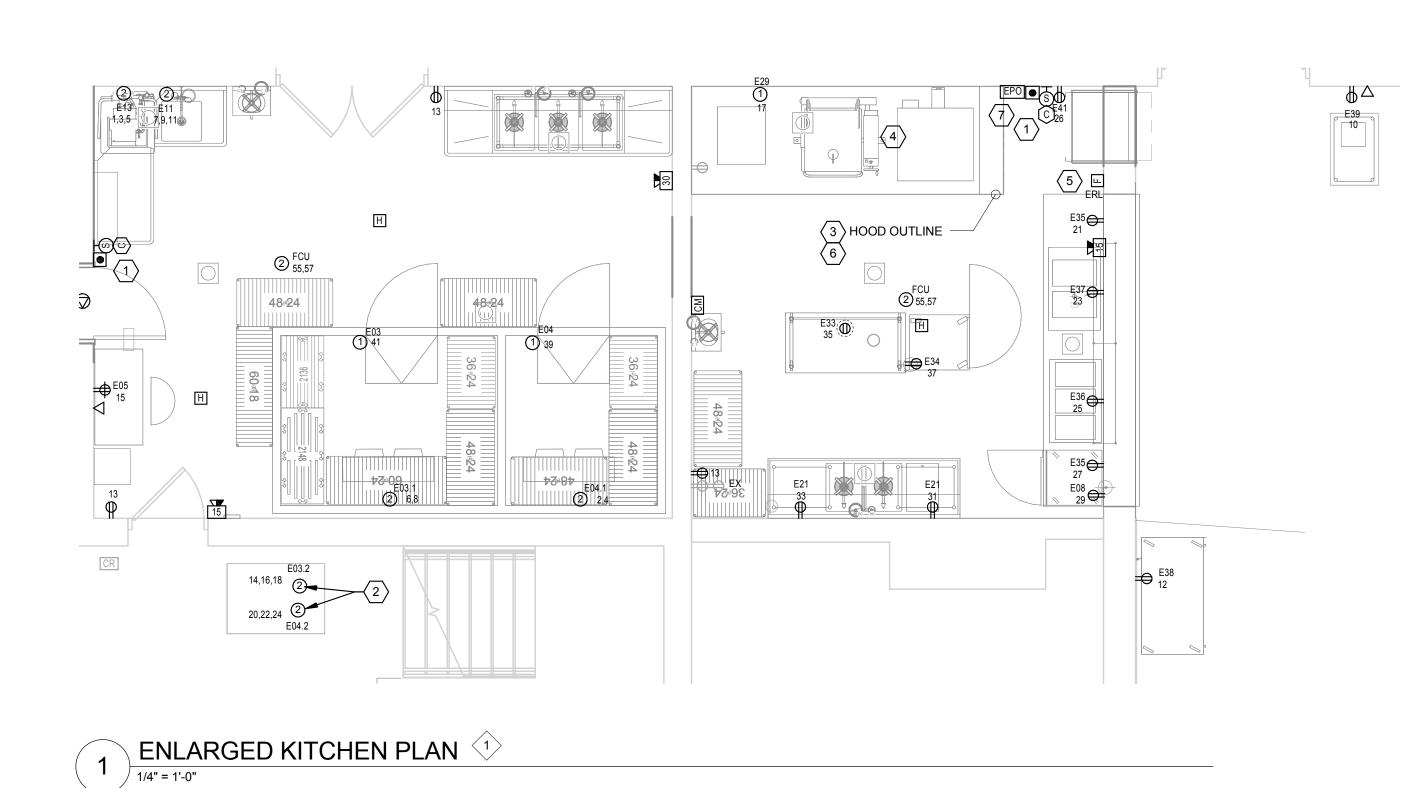
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ROOF POWER AND SYSTEMS PLAN



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										-	PHA	ASE	NEU	ITRAL	GRO	UND	CON	DUIT			N N	
EQUIPMENT DESIGNATION	DESCRIPTION	VOLT	PHASE	FLA	KW	НР	POLE AMPS	POLES	PANEL	CIRCUIT	QUANTITY	SIZE	QUANTITY	SIZE	QUANTITY	SIZE	QUANTITY	SIZE	CONNECTION TYPE	MOUNTING HEIGHT	PROVIDE LOCAL DISCONNECT	REMARKS
E03	WALK-IN COOLER	120	1	16			20	1	KP1		1	#12	1	#12	1	#12	1	3/4"	DC	48		LIGHTS/ALARM
E03.1	EVAPORATOR COIL	208	1	16			20	2	KP1		2	#12	1	#12	1	#12	1	3/4"	DC	96		
E03.2	COMPRESSOR	208	3			2	20	3	KP1		3	#12			1	#12	1	3/4"	DC	96	X	
E04	WALK-IN FREEZER	120	1	16			20	1	KP1		1	#12	1	#12	1	#12	1	3/4"	DC	48		LIGHTS/ALARM
E04.1	EVAPORATOR COIL - WALK-IN FREEZER	208	1	16			20	2	KP1		2	#12	1	#12	1	#12	1	3/4"	DC	96		
E04.2	COMPRESSOR - WALK-IN FREEZER	208	3			1.5	20	3	KP1		3	#12			1	#12	1	3/4"	DC	96	Х	
E05	DESK	120	1	16			20	1	KP1		1	#12	1	#12	1	#12	1	3/4"	DR	48		DATA REQ'D - NIKEC
E08	PREP REFRIGERATOR	120	1	6		.2	20	1	KP1		1	#12	1	#12	1	#12	1	3/4"	DR	24		
E11	DISPOSER, GARBAGE	208	3	6		3	20	3	KP1		3	#12			1	#12	1	3/4"	DC	18	Х	
E13	WAREWASHER, DOOR TYPE, HIGH TEMP	208	3	24.9			45	3	KP1		3	#8			1	#10	1	3/4"	DC	18	Х	
E21	TABLE, PREP W/ SINK	120	1	(2)16			20	1	KP1		1	#12	1	#12	1	#12	1	3/4"	DR	36		CONVENIENCE OUTLETS ON WALL
E29	OVEN-STEAMER, COMBINATION, BOILERLESS, GAS	120	1	6.8	.8		20	1	KP1		1	#12	1	#12	1	#12	1	3/4"	DC	48		
E33	MOBILE WORKTABLE	120	1	16			20	1	KP1		1	#12	1	#12	1	#12	1	3/4"	DR			PENDANT RECEPTACLE
E34	HOLDING CABINET, HUMIDIFIED HEATED	120	1	19.80			25	1	KP1		1	#12	1	#12	1	#12	1	3/4"	DR	48		
E35	FRONT COUNTER	120	1	(2)16			20	1	KP1		1	#12	1	#12	1	#12	1	3/4"	DR	18		ON WALL BELOW COUNTER
E36	DROP-IN, HOT WELLS	120	1	15.6	1.9		20	1	KP1		1	#12	1	#12	1	#12	1	3/4"	DR	18		
E37	DROP-IN, HOT/COLD UNIT	120	1	11.2			20	1	KP1		1	#12	1	#12	1	#12	1	3/4"	DR	18		
E38	MILK COOLER	120	1	6.8		.33	20	1	KP1		1	#12	1	#12	1	#12	1	3/4"	DR	18		
E39	POS	120	1	16			20	1	KP1		1	#12	1	#12	1	#12	1	3/4"	DR	34		DATA REQ'D - NIKEC
E41	REFRIGERATED SELF SERVICE CASE	120	1	14			20	1	KP1		1	#12	1	#12	1	#12	1	3/4"	DR	18		

CONN	NECTION TYPE:	REMARKS:
CP	CONTROL PANEL - MAKE DIRECT CONNECTION	1.
DR	STANDARD NEMA 5-20R DUPLEX RECEPTACLE	2.
JB	JUNCTION BOX	3.
DC	DIRECT CONNECTION TO EQUIPMENT	4.
RC	RECEPTACLE TO MATCH EQUIPMENT PLUGS	

INTERCOM SPEAKER, CALL SWITCH, AND CLOCK SHALL BE PROVIDED BY RPS. PROVIDE CATEGORY 6 CABLE AT THESE LOCATIONS. CONTRACTOR SHALL TEST AND TERMINATE.

2. COMPRESSOR'S E3.2 AND E4.2 WILL BE MOUNTED ON ROOF IN THIS LOCATION.

3. PROVIDE CONNECTIONS ABOVE THE CEILING FOR WALK-IN AND EXHAUST HOOD.

4. ALL EXISTING RECEPTACLES AND CONNECTIONS TO EXISTING EQUIPMENT SHALL REMAIN AND SHALL BE CONNECTED TO NEW ELECTRICAL PANEL KP-1. MODIFY

5. RELOCATED PULL STATION FOR ANSUL FIRE SUPPRESSION SYSTEM. MODIFY CONNECTION AS REQUIRED.

FEEDERS AND PROVIDE NEW GFCI CIRCUIT BREAKERS AS REQUIRED.

PROVIDE FIRE ALARM MONITORING FOR ANSUL FIRE SUPPRESSION SYSTEM.
INTERFACE WITH NEW FIRE ALARM CONTROL PANEL AS REQUIRED.'

7.
PROVIDE MANUAL STATION FOR FIRE SUPPRESSION SYSTEM, MOUNTED 48 INCHES AFF. SYSTEM TO BE INTERWIRED WITH MECHANICAL GAS SHUT-OFF VALVE SERVING ITEMS OF COOKING EQUIPMENT BENEATH THE HOOD, TO PROVIDE POWER AND FUEL SHUT-OFF IN THE EVENT OF A SYSTEM ACTUATION. FIRE PULL SHALL BE LOACTED BETWEEN 10 AND 20 FEET FROM HOOD. INTERCONNECT MICRO SWITCH TO REMOTE NOTIFICATION LOCATION PER NFPA 96. INTERCONNECT SHUNT TRIP CONTROL AND MICRO SWITCH TO SHUT OFF POWER TO EQUIPMENT UNDER THE EXHAUST HOOD. ALL CIRCUIT BREAKERS AT PANEL KP-1 THAT CORRESPOND TO LOADS UNDER THE HOOD SHALL BE THE SHUNTTRIP TYPE. INTERFACE ANSUL FIRE SUPPRESSION WITH FIRE ALARM.

#### GENERAL NOTES :

ALL CONNECTIONS SHOWN ARE THE APPROXIMATE CONNECTION LOCATIONS REQUIRED FOR THE FOOD SERVICE EQUIPMENT BEING FURNISHED BY THE KITCHEN CONTRACTOR AND ALLOWANCES MUST BE MADE TO EXTEND TO THE FINAL 2. ANY CHANGES TO THESE LOCATIONS SHOULD BE VERIFIED WITH THE ARCHITECT OR FOOD SERVICE CONTRACTOR. ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, COLUMNS AND FLOORS. WHERE BASE SIZES ARE SHOWN, THEY SHALL INCLUDE FINISHED SURFACES. 4. FOR ADDITIONAL INFORMATION REFER TO DETAIL DRAWINGS, MANUFACTURERS SHOP DRAWINGS, SPECIFICATIONS, BROCHURE BOOK, AND FS SERIES DRAWINGS. VARIOUS TRADES TO BE RESPONSIBLE FOR THE INTERCONNECTING ELECTRIC CONNECTIONS ON EQUIPMENT SHIPPED IN PIECES FOR THE ACCESSIBILITY INTO BUILDING. TRADES ARE TO MAKE THE FINAL CONNECTIONS FROM ELECTRICAL SERVICE LOCATIONS INDICATED TO EQUIPMENT PER LOCAL CODES. 6. TRADES SHALL PROVIDE OUTLETS IN EQUIPMENT AS CALLED FOR IN THE FIELD AND DO ALL CONTROL WIRING. VARIOUS TRADES TO FURNISH ANY ADDITIONAL HARDWARE REQUIRED FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT SUCH ALL VALVES, STOPS, TRAPS, DISCONNECT SWITCHES AND WIRING TO CONTROL EQUIPMENT LIKE SODA AND REMOTE COMPRESSORS, FIRE SYSTEM AND DISPOSERS AS REQUIRED. TRADES SHALL FURNISH CONNECTIONS TO EQUIPMENT SETTING ON COUNTERS THAT DO NOT COME WITH CORD & PLUGS, FROM OUTLET BOX OR 9. TRADES TO COORDINATE WITH FIRE PROTECTION CONTRACTOR AND INSTALL SHUNT TRIPS IN ELECTRICAL PANELS TO SHUT OFF COOKING EQUIPMENT ITEMS IN CONJUNCTION WITH FIRE SYSTEMS AND RUN TO FIRE ALARM AND VALVES. 10. TRADES TO COORDINATE WITH FIRE PROTECTION CONTRACTOR AND INSTALL AUTOMATIC FIRE GAS SHUT OFF VALVE IN LINE AND WIRE VALVE TO CONTROL PANEL AS REQUIRED. PROVIDE ALL REQUIRED CONNECTIONS AND INTERFACE WITH ANSUL SYSTEM, GAS SHUTOFF AND EMERGENCY (EPO) PULL STATION. 11. TRADES TO PROVIDE OCTAGONAL 'J' BOXES (+54") WITH 3/4" CONDUIT TO ABOVE FINISHED CEILING FOR FIRE PROTECTION SYSTEM REMOTE PULLS. VERIFY LOCATIONS WITH PROPER AUTHORITY. 12. ALL DIMENSIONS MUST BE VERIFIED AND AGREE WITH THE LATEST ARCHITECTURAL PLAN. 13. TRADES TO VERIFY WITH OWNER/OPERATOR REQUIREMENTS FOR CASH SYSTEM AND TO SUPPLY ALL NECESSARY COMPONENTS FOR ITS PROPER OPERATION. ELECTRICAL OUTLETS ROUGHED IN UNDER ISLAND EQUIPMENT TO BE STUBBED UP A MAXIMUM OF 4" OR LESS SO AS NOT TO INTERFERE WITH INSTALLING THE EQUIPMENT. ALL FLOOR OPENINGS SHALL BE SEALED WATER TIGHT OR STUBBED UP A 1" MIN ABOVE VINYL FLOOR OR FLUSH WITH CURB. 15. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TRENCHING, FLOOR BOXES, CONDUIT AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION. COORDINATE WORK WITH KITCHEN CONTRACTOR. 16. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECT MEANS FOR ALL KITCHEN EQUIPMENT AS REQUIRED BY NATIONAL ELECTRICAL CODE. 17. PROVIDE LIGHTING REQUIREMENTS FOR FREEZER PER MANUFACTURER SPECIFICATIONS. LIGHTING AT FREEZER SHALL BE PROVIDED BT

#### BRANCH CIRCUIT NOTES :

18. SEAL ALL BOXES AND CONDUITS INSIDE FREEZER/COOLER TO PREVENT CONDENSATION.

MANUFACTURER/FOOD SERVICE PROVIDER.

EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:

 120 / 208V PANELBOARDS
 KP-1 - NORMAL POWER (ELEC 170)



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**ENLARGED PLANS** 

Description

Project No.: 004645.05

E0421

TAP BUS OF EXISTING SWITCHBOARD AND PROVIDE A NEW 600A DISCONNECT SWITCH ADJACENT TO THE SWITCHBOARD.



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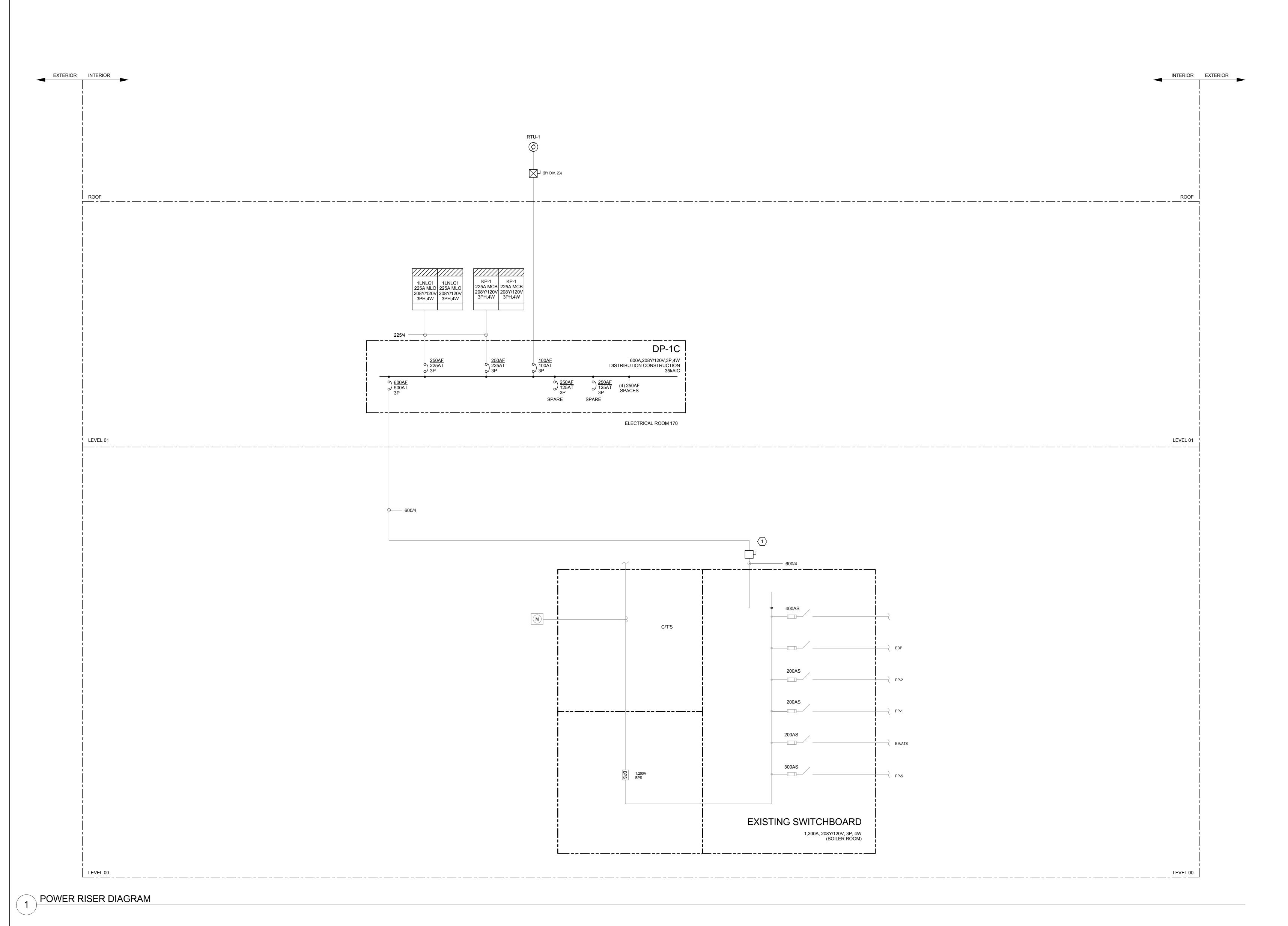
No. Description Date

Drawing Title:

POWER RISER DIAGRAMS

Project No.: 004645.05 Chec

E0521



							LUI	VIIIVA	IRE SCHEDULE			1
TAG	DESCRIPTION	INSTALLATION METHOD	DEPTH	LIGHT SOUR	CE BALLAST/D QTY SPEC	RIVER VOLT	INPUT WATTS	MIN. EFF.	SHIELDING/OPTICS	FEATURES/OPTIONS	REFERENCED PRODUCTS	NOTES
FS1	4FT FLUORESCENT PENDANT	P-RS	3.75"	F32/T8 5000K CRI=>82	2 ELEC/T8 PROGRAM START	120	56		UV STABILIZED, HIGH IMPACT EXTRUDED PEARLESCENT POLYCARBONATE LENS	MARINE GRADE ALUMINUM HOUSING, FLAT ENDCAPS, WET LABEL, WHITE FINISH	KENALL - MLHA5 -F-MW-PP-32-PM	2, 6
FT1	2'X4' RECESSED WET LABEL, GASKETED LUMINAIRE (KITCHEN)	RECESSED LG	5"	F32/T8 5000K CRI=>82	3 ELEC/T8 PROGRAM START	120	88	98 LPW	0.135" LENS P12 INVERTED, SEALED TO DOOR	20 GA STEEL HOUSING, SEAM WELDED, OVERWET LABEL, GASKETED, NSF RATED, GRID SIZE TBS	KURTZON - G/EZ-2X4 KENALL - CSEGI	2
FT1 EM-N	2'X4' RECESSED WET LABEL, GASKETED LUMINAIRE (KITCHEN)	RECESSED LG	5"	F32/T8 5000K CRI=>82	3 ELEC/T8 PROGRAM START	120	88	98 LPW	0.135" LENS P12 INVERTED, SEALED TO DOOR	20 GA STEEL HOUSING, SEAM WELDED, OVERWET LABEL, GASKETED, NSF RATED, GRID SIZE TBS N-LIGHT EMERGENCY RELAY	KURTZON - G/EZ-2X4 KENALL - CSEGI	2
LI1	4FT LED INDUSTRIAL STRIP LUMINAIRE	PENDANT, HANGER CHAIN	4"	LED 5000K 2680 LUM	1 INTERNAL LED DIMMING DRIVER	120	32	84 LPW	MEDIUM DIFFUSE LENSED	FINISH WHITE, HANGER CHAIN	LITHONIA - ZL2-L48 COLUMBIA - LCS-LW METALUX - SNLED	2, 6
LI1 EM-N	4FT LED INDUSTRIAL STRIP LUMINAIRE	PENDANT, HANGER CHAIN	4"	LED 5000K 2680 LUM	1 INTERNAL LED DIMMING DRIVER	120	32	84 LPW	MEDIUM DIFFUSE LENSED	FINISH WHITE, HANGER CHAIN N-LIGHT EMERGENCY RELAY	LITHONIA - ZL2-L48 COLUMBIA - LCS-LW METALUX - SNLED	2, 6
LD1	4" APERTURE LED DIMMABLE DOWNLIGHT	RECESSED V	6-1/8"	LED 5000K 1000 LUM	- INTERNAL LED DIMMING DIMMABLE 0-10V	120	20	50 LPW	COMFORT CLEAR DIFFUSE REFLECTOR	SELF-FLANGE, PAINTED WHITE, U.N.O.	GOTHAM -EVO4-NLIGHT PRESCOLITE - LF4LEDG4 LIGHTOLIER - C4L10DL PORTFOLIO - LD4A09	1, 2
LD1 EM-N	4" APERTURE LED DIMMABLE DOWNLIGHT	RECESSED V	6-1/8"	LED 5000K 1000 LUM	- INTERNAL LED DIMMING DIMMABLE 0-10V	120	20	50 LPW	COMFORT CLEAR DIFFUSE REFLECTOR	SELF-FLANGE, PAINTED WHITE, U.N.O. N-LIGHT EMERGENCY RELAY	GOTHAM -EVO4-NLIGHT PRESCOLITE - LF4LEDG4 LIGHTOLIER - C4L10DL PORTFOLIO - LD4A09	1, 2
LT1	2' X 4' LED VOLUMETRIC DIMMABLE TROFFER	RECESSED LG	4-3/8"	LED 5000K ~3000 LUM	- INTERNAL LED DIMMING DIMMABLE 0-10V	120	31	103 LPW	HIGH PERFORMANCE CLEAR ACRYLIC DIFFUSER, WIDE DISTRIBUTION	RUGGED, ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER HOUSING, PAF WITH EMBOSSED FACETS.	LITHONIA - VTLED-30L-NLIGHT-N100	1, 2
LT1 EM-N	2' X 4' LED VOLUMETRIC DIMMABLE TROFFER	RECESSED LG	4-3/8"	LED 5000K ~3000 LUM	- INTERNAL LED DIMMING DIMMABLE 0-10V	120	31	103 LPW	HIGH PERFORMANCE CLEAR ACRYLIC DIFFUSER, WIDE DISTRIBUTION	RUGGED, ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER HOUSING, PAF WITH EMBOSSED FACETS.  N-LIGHT EMERGENCY RELAY	LITHONIA - VTLED-30L-NLIGHT-N100	1, 2
LT2	2' X 4' LED VOLUMETRIC DIMMABLE TROFFER	RECESSED LG	4-3/8"	LED 5000K ~4000 LUM	- INTERNAL LED DIMMING DIMMABLE 0-10V	120	39	102 LPW	HIGH PERFORMANCE CLEAR ACRYLIC DIFFUSER, WIDE DISTRIBUTION	RUGGED, ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER HOUSING, PAF WITH EMBOSSED FACETS.	LITHONIA - VTLED-40L-NLIGHT-N100	1, 2
LT3	2' X 4' LED VOLUMETRIC DIMMABLE TROFFER	RECESSED DW	4-3/8"	LED 5000K ~3000 LUM	- INTERNAL LED DIMMING DIMMABLE 0-10V	120	31	103 LPW	HIGH PERFORMANCE CLEAR ACRYLIC DIFFUSER, WIDE DISTRIBUTION	RUGGED, ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER HOUSING, PAF WITH EMBOSSED FACETS. DRYWALL KIT	LITHONIA - VTLED-30L-DGA24-NLIGHT-N100	1, 2
LT3 EM-N	2' X 4' LED VOLUMETRIC DIMMABLE TROFFER	RECESSED DW	4-3/8"	LED 5000K ~3000 LUM	- INTERNAL LED DIMMING DIMMABLE 0-10V	120	31	103 LPW	HIGH PERFORMANCE CLEAR ACRYLIC DIFFUSER, WIDE DISTRIBUTION	RUGGED, ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER HOUSING, PAF WITH EMBOSSED FACETS. DRYWALL KIT N-LIGHT EMERGENCY RELAY	LITHONIA - VTLED-30L-DGA24-NLIGHT-N100	1, 2

	16"X 46" PENDANT DIMMABLE LED HIGHBAY (GYM)	P-RS	3"	LED 5000K 21300 LUM	- INTERNAL LED DIMMING DIMMABLE 0-10V	120	245 87 LPW WIDE DISTRIBUTIO ACRYLIC LENS FOI	ON OPTIC, SEMI-DIFFUSE R GLARE CONTROL	ALUMINUM HEAT SINK, CHANNEL AND END CAPS ARE STEEL, BOTTOM WIRE GUARD, FINISH STANDARD TBS	LITHONIA - IBL-24L-WD-SD125-WGX-NLIGHT	1,2,
LP2 EM-N	16"X 46" PENDANT DIMMABLE LED HIGHBAY (GYM)	P-RS	3"	5000K	- INTERNAL LED DIMMING	120	245 87 LPW WIDE DISTRIBUTIO ACRYLIC LENS FOI	ON OPTIC, SEMI-DIFFUSE R GLARE CONTROL	ALUMINUM HEAT SINK, CHANNEL AND END CAPS ARE STEEL, BOTTOM WIRE GUARD, FINISH STANDARD TBS	LITHONIA - IBL-24L-WD-SD125-WGX-NLIGHT	1,2,
				21300 LUM	DIMMABLE 0-10V				N-LIGHT EMERGENCY RELAY		
LP5	8" x 8FT LED LINEAR PENDANT BI-DIRECTIONAL DISTRIBUTION , CONTINUOUS MOUNT	P-AC	1-3/4"	LED 4000K 3400 LUM PER 4FT	INTERNAL LED DIMMING DIMMABLE 0-10V	120	31 109 LPW 30% DIRECT/ 70% I PER 4FT GUARD,	INDIRECT, 125" WHITE TE FINISH, CLEAR DUST	DIE FORM 18 GAUGE STEEL HOUSING, DIE CAST ALUMINUM FLAT ENDCAPS, FINISH WHITE, DUAL AIR CRAFT ADJUSTABLE CABLE, PROVIDE 80% LUMEN MANAGEMENT	PEERLESS - BRM9L-LO-ENNB-N-LIGHT-LMES20	1, 2
LP5A	8" x 4FT LED LINEAR PENDANT BI-DIRECTIONAL DISTRIBUTION , CONTINUOUS MOUNT	P-AC	1-3/4"	LED 4000K 3400 LUM PER 4FT	INTERNAL LED DIMMING DIMMABLE 0-10V	120	31 109 LPW 30% DIRECT/ 70% I SATINE LENS, MAT GUARD,	INDIRECT, 125" WHITE TE FINISH, CLEAR DUST	DIE FORM 18 GAUGE STEEL HOUSING, DIE CAST ALUMINUM FLAT ENDCAPS, FINISH WHITE, DUAL AIR CRAFT ADJUSTABLE CABLE, PROVIDE 80% LUMEN MANAGEMENT	PEERLESS - BRM9L-LO-ENNB-N-LIGHT-LMES20	1, 2
LX1	9.31"X 8.86" LED EXTERIOR WALL MOUNT LUMINAIRE, VANDAL PROOF	SURFACE WALL	10.65" PROJ.	LED 5000K 1695 LUM	- INTERNAL LED DIMMING DIMMABLE 0-10V	120	26 84 LPW SHARP CUTOFF DI DISTRIBUTION, 0.1: POLYCARBONATE		HIGH IMPACT RESISTANT INJECTION MOLDED POLYCARONATE, BALLAST HOUSING DIE-CAST ALUMINUM, GASKETED, WET LABEL, PHOTOCONTROL BUTTON TYPE, FINISH TBS	KENALL- FN9D-26L50K-PH-NLIGHT	1,:
LX1 EM-N	9.31"X 8.86" LED EXTERIOR WALL MOUNT LUMINAIRE, VANDAL PROOF	SURFACE WALL	10.65" PROJ.	LED 5000K 1695 LUM	- INTERNAL LED DIMMING DIMMABLE 0-10V	120	26 84 LPW SHARP CUTOFF DI DISTRIBUTION, 0.1: POLYCARBONATE		HIGH IMPACT RESISTANT INJECTION MOLDED POLYCARONATE, BALLAST HOUSING DIE-CAST ALUMINUM, GASKETED, WET LABEL, PHOTOCONTROL BUTTON TYPE, FINISH TBS N-LIGHT RELAY	KENALL- FN9D-26L50K-PH-NLIGHT	1,
X1	LED EXIT SIGN	CEILING, WALL, PENDANT AS SHOWN		LED	INTERNAL LED DRIVER	120	5 STENCIL CUT, COD DIRECTIONAL CHE SHEET BACKING	DE SIZE "EXIT" LETTERS & EVRON(S)-RED ACRYLIC	DIE-CAST ALUMINUM HOUSING-SINGLE/DOUBLE FACE-WITH DIRECTIONAL CHEVRONS AS SHOWN-PAINTED PPC FINISH-COLOR WHITE	CHLORIDE - CX SERIES  DUAL-LITE - "SIEMPRA" SE SERIES  JUNO - NAVILITE - NXD SERIES  LITHONIA - "SIGNATURE" LE SERIES	
	ERENCED PRODUCTS ARE INCLUDED HEREIN,			,			,,,		EQUIVALENT		
PRO DET INCI TO N LIST MOD ALEI		&/OR MODEL NUMBE & IN THE PROJECT M MAY NOT BE STANDA DESCRIPTIONS, & RE	RS DOES NO IANUAL. ARD PRODUC QUIREMENTS	OT IMPLY UNCONDI	ITIONAL PRODUCT APPRO	VAL - MANUF TURER OR SI NUAL.	ERIES LISTED. MANUFACTURER'S STANDAF	RD PRODUCTS MAY REQUI	JIRE CUSTOM	SISDEC SEMI SDECIJI AD	
PRO DET INCL TO M LIST MOD ALEI	ERMINE SPECIFIC LUMINAIRE PART NUMBERS I LUSION HEREIN OF MANUFACTURER'S SERIES OF MEET THE REQUIREMENTS SPECIFIED HEREIN OF ED SIZES, LAMPING, & TYPES OF LUMINAIRES I DIFICATIONS TO MEET THE DESIGN CRITERIA, D RT ARCHITECT TO DISCREPANCIES PRIOR TO B	&/OR MODEL NUMBE & IN THE PROJECT M MAY NOT BE STANDA DESCRIPTIONS, & RE	RS DOES NO IANUAL. ARD PRODUC	OT IMPLY UNCONDI	ITIONAL PRODUCT APPRO	VAL - MANUF		RD PRODUCTS MAY REQUI		S'SPEC SEMI-SPECULAR SS STAINLESS STEEL	
PRO DET INCL TO M LIST MOD ALEI BBREVIATION	ERMINE SPECIFIC LUMINAIRE PART NUMBERS I LUSION HEREIN OF MANUFACTURER'S SERIES OF MEET THE REQUIREMENTS SPECIFIED HEREIN OF ED SIZES, LAMPING, & TYPES OF LUMINAIRES I DIFICATIONS TO MEET THE DESIGN CRITERIA, DO RT ARCHITECT TO DISCREPANCIES PRIOR TO BE NS: CONCRETE	&/OR MODEL NUMBE & IN THE PROJECT M MAY NOT BE STANDA DESCRIPTIONS, & RE	RS DOES NO IANUAL. ARD PRODUC QUIREMENTS	EXPOSED	ITIONAL PRODUCT APPRO ROM ANY GIVEN MANUFAC IN & IN THE PROJECT MA	VAL - MANUF ETURER OR SI NUAL.	ERIES LISTED. MANUFACTURER'S STANDAF	RD PRODUCTS MAY REQUI PPC POL' PRISM 89	JIRE CUSTOM		
PRO DET INCL TO M LIST MOD ALEI BBREVIATION CONC	ERMINE SPECIFIC LUMINAIRE PART NUMBERS I LUSION HEREIN OF MANUFACTURER'S SERIES OF MEET THE REQUIREMENTS SPECIFIED HEREIN OF ED SIZES, LAMPING, & TYPES OF LUMINAIRES I DIFICATIONS TO MEET THE DESIGN CRITERIA, DO RT ARCHITECT TO DISCREPANCIES PRIOR TO BE NS: CONCRETE DRYWALL	&/OR MODEL NUMBE & IN THE PROJECT M MAY NOT BE STANDA DESCRIPTIONS, & RE	RS DOES NO IANUAL. ARD PRODUC QUIREMENTS EXP LG	ETS PRODUCED FR S SPECIFIED HERE EXPOSED LAY-IN GRID	ITIONAL PRODUCT APPRO ROM ANY GIVEN MANUFAC IN & IN THE PROJECT MA	VAL - MANUF ETURER OR SI NUAL. LU/W NT	ERIES LISTED. MANUFACTURER'S STANDAF  LUMENS PER WATT  NARROW TEE GRID	PPC POL PRISM 89 REFL'T REFI	JIRE CUSTOM  LYESTER POWDER COAT FINISH	SS STAINLESS STEEL	
PRO DET INCL TO M LIST MOD ALEI BBREVIATION ONC DW	ERMINE SPECIFIC LUMINAIRE PART NUMBERS ( LUSION HEREIN OF MANUFACTURER'S SERIES ( MEET THE REQUIREMENTS SPECIFIED HEREIN ( ED SIZES, LAMPING, & TYPES OF LUMINAIRES ( OFFICATIONS TO MEET THE DESIGN CRITERIA, D RT ARCHITECT TO DISCREPANCIES PRIOR TO B  NS:  CONCRETE  DRYWALL  DIRECT/INDIRECT	&/OR MODEL NUMBE & IN THE PROJECT M MAY NOT BE STANDA DESCRIPTIONS, & RE	RS DOES NO IANUAL. ARD PRODUC QUIREMENTS EXP LG LO-IRI	EXPOSED LAY-IN GRID LOW IRRIDESCEN	ITIONAL PRODUCT APPRO ROM ANY GIVEN MANUFAC IN & IN THE PROJECT MA	VAL - MANUF ETURER OR SI NUAL. LU/W NT PAF	ERIES LISTED. MANUFACTURER'S STANDAR  LUMENS PER WATT  NARROW TEE GRID  PAINT AFTER FABRICATION	PPC POLYPRISM 89 REFL'T REFL SP SPLI SPEC SPEC	JIRE CUSTOM  LYESTER POWDER COAT FINISH  FLECTOR/REFLECTANCE	SS STAINLESS STEEL TBS TO BE SELECTED BY ARCH	



# CANVONDESIGN

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> PROFESSIONAL DESIGN FIRM LICENSE NUMBER 184.005683

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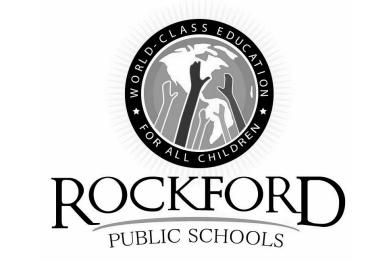
LIGHTING SCHEDULES

Project No.: 004645.05

E0601

		E/	NIIDMENT /	MOTOR DAT	·^						CONTRO	LLER DATA							LOCAL	DISCONNE	CT SWITCH		9	OURCE PROT	ECTIVE DEVIC	`E				VIRING			
			(UIPIVIEN I /	WOTORDAT	A						CONTRO	OVERCU	IRRENT	7				OVE	RCURRENT	DISCONNE	CISWIICH		3	OURCE PROT	ECTIVE DEVIC	· <b>C</b>			, v	VIKING			
								MOUNTING				PROTECTIV		CTIO					CTION DEVIC	<b>E</b>				TYPE			PHASE	NE	UTRAL	GROUND	COND	JIT	
EQUIPMENT ESIGNATION	DESCRIPTION	НР	KW	FLA	NORMAL POWER	EMERGENCY POWER	PHASE	PACKAGED	MCC	TYPE	NEMA SIZE	MCP	RATING	SINGLE PHASE PROTE	NEMA ENCLOSURE	WEIGHT (LBS)	LOCATION	MCP	FUSE	NEMA ENCLOSURE	WEIGHT (LBS)	LOCATION	MCP	FUSE	POLE AMPS	PANELBOARD OR MCC	SIZE	QUANTITY	SIZE	QUANTITY	QUANTITY	SIZE CONNECTION TYPE	REMARKS.
AC-1	AIR CONDITIONING UNIT	1/20			Y	20	18 1	PROVIDED BY DIVISION 23 -			T - T			_	-	-	_	-			_		_	- X	20		#12	1	#12	1 #12	1	3/4"	
B-1	BOILER	3			X	20		PROVIDED BY DIVISION 23 -		<u>-</u>	+ + +		-	_	_	-	_			_			_	- X			#12	<del>- '-</del>	#1Z	1 #12		3/4"	
3-1 3-2	BOILER	3			X	20		PROVIDED BY DIVISION 23 -		<u>-</u>	+		-	_	_	_	_			_	_		_	- X			#12	+	_	1 #12		3/4"	
<u></u> U-1	BOILER FEED UNIT	2.5			X	20		PROVIDED BY DIVISION 23 -		<u> </u>			_	_	_	_	_			_	_		-	- X			#12	1	#12	1 #12		3/4"	
U-1	CONDENSING UNIT	2.0		36 MCA	X	20		PROVIDED BY DIVISION 23 -		_			_	_	_	_	_				_		-	- X			#4	1	#4	1 #10	1		
-1	EXHUAST FAN	1/4		00 111071	X	12		PROVIDED BY DIVISION 23 -		_	+ + +		_	_	_	_	_			_	_	-	_	- X			#12	1	#12	1 #12	1		
2	EXHUAST FAN	1/4			X	12		PROVIDED BY DIVISION 23 -		_	_		_	-	_	_	_	-		_	_	_	-	- X			#12	1	#12	1 #12		3/4"	
F-3	EXHUAST FAN	1/4			X	12		PROVIDED BY DIVISION 23 -		-	-		_	-	-	_	_	-		-	-	_	-	- X			#12	1	#12	1 #12		3/4"	
₹V-1	ENERGY RECOVERY VENTILATOR			1	X	12		PROVIDED BY DIVISION 23 -		-	-		-	-	-	-	-	-		-	-	-	-	- X			#12	1	#12	1 #12		3/4"	
CU	FAN COIL UNIT			1 MCA	X	20	)8 1	PROVIDED BY DIVISION 23 -		-	-		-	-	-	-	-	-		-	-	-	-	- X	20		#12	1	#12	1 #12	1	3/4"	
ΓU-1	ROOF TOP UNIT			89 MCA	X	20	08 3	PROVIDED BY DIVISION 23 -		-	-		-	-	-	-	-	-		-	-	-	-	- X	100	;	#1	-	-	1 #8	1	1/2"	
TU-2	ROOF TOP UNIT			26 MCA	X	20	08 3	PROVIDED BY DIVISION 23 -		-	-		-	-	-	-	-	-		-	-	-	-	- X	30	;	#10	1	#12	1 #10	1	3/4"	
\V-1	VAV BOX		2		X	20	)8 3	PROVIDED BY DIVISION 23 -		-	-		-	-	-	-	-	-		-	-	-	-	- X	20		#12	1	#12	1 #12	1	3/4"	
AV-2	VAV BOX		5		X	20	)8 3	PROVIDED BY DIVISION 23 -		-	-		-	-	-	-	-	-		-	-	-	-	- X	20		#12	1	#12	1 #12	1	3/4"	
CRU-1	VACUUM CONDENSATE RETURN UNIT	3.5			Х	20	08 3	PROVIDED BY DIVISION 23 -		-	-		-	-	-	-	-	-		-	-	-	-	- X	30	;	#10	1	#12	1 #10	1	3/4"	
C ACROSS D ACROSS REDUCE C REDUCE TWO SP D VARIABL FRACTIO	THE LINE H-O-A THE LINE COMBINATION DISC THE LINE COMBINATION DISC D VOLTAGE D VOLTAGE COMBINATION DI	CONNECT ( ISCONNEC'  OR (MCP) F	D-H Γ							<u>.</u>	IN <sup>1</sup> B. VE	NAL CONNECTERCONNEC	T ALL ASSO CEPTACLE <sup>-</sup>	CIATED EQI TYPES AND	UIPMENT I	L BE MADE B ELECTRICAL WIRING WITH D WIRING PR	DEVICES. HEQUIPMEN	Γ SUPPLIEI							DR STA JB JUN DC DIR RC REG LOCATION NU NEA OU ON PCU PAG	NTROL PANE INDARD NEM ICTION BOX ECT CONNEC CEPTACLE TO	A 5-20R DUPL TION TO EQL MATCH EQL ROL UNIT	EX RECEP JIPMENT	TACLE				

		PHASE WIRES	NEUTRAL WIRES		MIN. CONDUIT			PHASE WIRES	NEUTRAL WIRES		MIN. CONDUIT
FEEDER ID	AMPS	(AWG)	(AWG)	GND (AWG)	SIZE	FEEDER ID	AMPS	(AWG)	(AWG)	GND (AWG)	SIZE
30/3	30	(3)#10		#10	3/4	400/3	400	(6)#3/0		(2)#2	(2)2
30/4	30	(3)#10	(1)#10	#10	3/4	400/4	400	(6)#3/0	(2)#3/0	(2)#2	(2)2-1/2
30/5	30	(3)#10	(1)#6	#10	3/4	400/5	400	(6)#3/0	(4)#3/0	(2)#2	(2)2-1/2
40/3	40	(3)#8		#10	3/4	500/3	500	(6)250KCMIL		(2)#2	(2)2-1/2
40/4	40	(3)#8	(1)#8	#10	1	500/4	500	(6)250KCMIL	(2)250KCMIL	(2)#2	(2)3
40/5	40	(3)#8	(1)#2	#10	1	500/5	500	(6)250KCMIL	(4)250KCMIL	(2)#2	(2)3
50/3	50	(3)#6		#10	1	600/3	600	(6)350KCMIL		(2)#1	(2)3
50/4	50	(3)#6	(1)#6	#10	1	600/4	600	(6)350KCMIL	(2)350KCMIL	(2)#1	(2)3
50/5	50	(3)#6	(1)#2	#10	1-1/4	600/5	600	(6)350KCMIL	(4)350KCMIL	(2)#1	(2)3-1/2
60/3	60	(3)#4		#10	1-1/4	700/3	700	(6)500KCMIL		(2)#1/0	(2)3
60/4	60	(3)#4	(1)#4	#10	1-1/4	700/4	700	(6)500KCMIL	(2)500KCMIL	(2)#1/0	(2)3-1/2
60/5	60	(3)#4	(1)1/0	#10	1-1/4	700/5	700	(6)500KCMIL	(4)500KCMIL	(2)#1/0	(2)4
70/3	70	(3)#4		#8	1-1/4	800/3	800	(9)300KCMIL		(3)#1/0	(3)2-1/2
70/4	70	(3)#4	(1)#4	#8	1-1/4	800/4	800	(9)300KCMIL	(3)300KCMIL	(3)#1/0	(3)3
70/5	70	(3)#4	(1)#1/0	#8	1-1/4	800/5	800	(9)300KCMIL	(6)300KCMIL	(3)#1/0	(3)3
90/3	90	(3)#2	(4) (10)	#8	1-1/4	1000/3	1000	(9)400KCMIL	(0) 4001(01 !!!	(3)#2/0	(3)3
90/4	90	(3)#2	(1)#2	#8	1-1/2	1000/4	1000	(9)400KCMIL	(3)400KCMIL	(3)#2/0	(3)3
90/5	90	(3)#2	(1)#3/0	#8	1-1/2	1000/5	1000	(9)400KCMIL	(6)400KCMIL	(3)#2/0	(3)3-1/2
100/3	100	(3)#1	/4/114	#8	1-1/2	1200/3	1200	(12)350KCMIL	(4)050(054)	(4)#3/0	(4)3
100/4	100	(3)#1	(1)#1	#8	1-1/2	1200/4	1200	(12)350KCMIL	(4)350KCMIL	(4)#3/0	(4)3
100/5	100	(3)#1	(1)#3/0	#8	2	1200/5	1200	(12)350KCMIL	(8)350KCMIL	(4)#3/0	(3)3-1/2
125/3 125/4	125 125	(3)#1 (3)#1	(1)#1	#6 #6	1-1/2 1-1/2	1500/3 1500/4	1500 1500	(12)500KCMIL (12)500KCMIL	(4)500KCMIL	(4)#4/0	(4)3
125/4	125	(3)#1	(1)#1 (1)250KCMIL	#6 #6	2	1500/4	1500	(12)500KCMIL	(8)500KCMIL	(4)#4/0 (4)#4/0	(4)3-1/2 (4)4
150/3	150	(3)#1/0	(1)250KGWIL	#6 #6	1-1/2	1600/3	1600	(15)400KCMIL	(6)SOURCIVIIL	(5)#4/0	(5)3
150/4	150	(3)#1/0	(1)#1/0	#6 #6	2	1600/3	1600	(15)400KCMIL	(5)400KCMIL	(5)#4/0	(5)3-1/2
150/5	150	(3)#1/0	(2)#1/0	#6 #6	2	1600/5	1600	(15)400KCMIL	(10)400KCMIL	(5)#4/0	(5)3-1/2
175/3	175	(3)#2/0	(2)11 110	#6	2	2000/3	2000	(18)400KCMIL	(10) TOORCONILE	(6)250KCMIL	(6)3
175/4	175	(3)#2/0	(1)#2/0	#6	2	2000/4	2000	(18)400KCMIL	(6)400KCMIL	(6)250KCMIL	(6)3-1/2
175/5	175	(3)#2/0	(2)#2/0	#6	2-1/2	2000/5	2000	(18)400KCMIL	(12)400KCMIL	(6)250KCMIL	(6)3-1/2
200/3	200	(3)#3/0	(=)::=:0	#6	2	2500/3	2500	(24)400KCMIL	(12)10011011112	(8)350KCMIL	(8)3
200/4	200	(3)#3/0	(1)#3/0	#6	2	2500/4	2500	(24)400KCMIL	(8)400KCMIL	(8)350KCMIL	(8)3-1/2
200/5	200	(3)#3/0	(2)#3/0	#6	2-1/2	2500/5	2500	(24)400KCMIL	(16)400KCMIL	(8)350KCMIL	(8)3-1/2
225/3	225	(3)#4/0		#4	2	3000/3	3000	(24)500KCMIL		(8)400KCMIL	(8)3-1/2
225/4	225	(3)#4/0	(1)#4/0	#4	2-1/2	3000/4	3000	(24)500KCMIL	(8)500KCMIL	(8)400KCMIL	(8)3-1/2
225/5	225	(3)#4/0	(2)#4/0	#4	3	3000/5	3000	(24)500KCMIL	(16)500KCMIL	(8)400KCMIL	(8)4
250/3	250	(3)250KCMIL		#4	2-1/2	3200/3	3200	(27)500KCMIL		(9)500KCMIL	(9)3-1/2
250/4	250	(3)250KCMIL	(1)250KCMIL	#4	3	3200/4	3200	(27)500KCMIL	(9)500KCMIL	(9)500KCMIL	(9)4
250/5	250	(3)250KCMIL	(2)250KCMIL	#4	3	3200/5	3200	(27)500KCMIL	(18)500KCMIL	(9)500KCMIL	(9)4
300/3	300	(3)350KCMIL		#4	3	4000/3	4000	(33)500KCMIL		(11)500KCMIL	(11)3-1/2
300/4	300	(3)350KCMIL	(1)350KCMIL	#4	3	4000/4	4000	(33)500KCMIL	(11)500KCMIL	(11)500KCMIL	(11)4
300/5	300	(3)350KCMIL	(2)350KCMIL	#4	3-1/2	4000/5	4000	(33)500KCMIL	(22)500KCMIL	(11)500KCMIL	(11)4
350/3	350	(3)500KCMIL		#2	3						
350/4	350	(3)500KCMIL	(1)500KCMIL	#2	3-1/2						
350/5	350	(3)500KCMIL	(2)500KCMIL	#2	4						
ONDUIT METRIC		NS:			ONDUCTOR METRIC CO VER	SIONS:			RY DERIVED SYSTEM GF		
CHES 2	<u><b>MM</b></u> 16			<u>A\</u> 1	<u>NG</u> <u>SQMM</u> 0 5.26			<u>TAG</u> A	CONDUCTOR (AWO	<u>MIN. C</u>	20NDUIT SIZE (IN) 1/2
4	21			8	8.38			B	(1)6		1/2
414	27			6	13.3			Č	(1)2		1/2
·1/4 ·1/2	32 41			4	21			D	(1)1/0 (1)2/0		3/4
·1/2	53			1	2 34 42			F	(1)2/0 (1)3/0		1
-1/2	63			1	/0 54			Ġ	(1)250KCM	IIL	1-1/4
	78			2	2/0 67			Н	(1)400KCM	IIL	1-1/4
	103				8/0 85			I	(1)500KCM	IIL	1-1/2
	129 155			4	7/0 107 250 127						
	100				300 127 300 152						
				3	350 178						
				4	00 203						



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No. Description

POWER SCHEDULES

LOAD UNCONFIRMED AT THE TIME OF DESIGN.
CIRCUIT TO PANELBOARD INDICATED ON SCHEDULE THROUGH LOCAL SEPERATELY ENCLOSED FLUSH CIRCUIT BREAKER.
CIRCUIT THROUGH SHUNT TRIP BREAKER

	ipply Mou Encle	ration: BOILER ROOM 003  From: nting: Surface osure: Type 1 tions:							Volts: 1 Viring: 3		-		A.I.C. Rating of Available Fault Current of Mains Rating of Mains Ty	(A):
marks		Load Name	Poles	Size (A)		4		В	(	:	Size (A)	Poles	Load Name	CKT Rema
····a····c	1	EXISTING LOAD	1	20	0	0	-			-	20	1	EXISTING LOAD	2
	3	EXISTING LOAD	1	20			0	0			20	1	EXISTING LOAD	4
	5	EXISTING LOAD	1	20					0	0	20	1	EXISTING LOAD	6
	7	EXISTING LOAD	1	20	0	0					20	1	EXISTING LOAD	8
	9	EXISTING LOAD	1	20			0	0			20	1	EXISTING LOAD	10
	11	EXISITNG LOAD	1	20					0	0	20	1	EXISTING LOAD	12
	13	EXISTING LOAD	1	20	0	0					20	1	EXISTING LOAD	14
	15	EXISTING LOAD	1	20			0	0			20	1	EXISTING LOAD	16
		EXISTING LOAD	1	20					0	0	20	1	EXISTING LOAD	18
	19	EXISTING LOAD	1	20	0	0				, ,	20	1	EXISTING LOAD	20
	21	EXISTING LOAD	1	20		J	0	0			20	1	EXISTING LOAD	22
	23	EXISTING LOAD	1	20					0	0	20	1	EXISTING LOAD	24
		EXISTING LOAD	1	20	0	0			U	U	20	1	EXISTING LOAD	26
	27	EXISTING LOAD	1	20	- 0	U	0	0			20	1	EXISTING LOAD	28
	29	EXISTING LOAD	1	20			0	0	0	0	20	1	EXISTING LOAD	30
	31	EXISTING LOAD	1	20	0	0			U	- 0	20	1	EXISTING LOAD	32
		EXISTING LOAD	1	20	U	U	0	0			30	2	EXISTING LOAD	34
		EXISTING LOAD	3	20			U	U	_	0			EXISTING LOAD	36
	35		<del></del>			0			0	<u> </u>			EVICTING LOAD	
	37	<del></del>			0	0					40	3	EXISTING LOAD	38
	39						0	0						40
	41	EXISTING LOAD	3	50		•			0	0				42
	43	<del></del>			0	0					20	1	Spare	44
	45		1				0	0			20	1	Spare	46
		Spare		20					0	0	20	1	Spare	48
		Spare	1	20	0	0					20	1	Spare	50
		Spare	1	20			0	0			20	1	Spare	52
		Spare	1	20					0	0	20	1	Spare	54
		Spare	1	20	0	0					20	1	Spare	56
		Spare	1	20			0	0			20	1	Spare	58
	59	Spare	1	20					0	0	20	1	Spare	60
				oad (VA): lotal (A):		0		0	(					
													Panel Totals	
													otal Connected Load (VA): 0	
												•	Total Demand Load* (VA): 0	
													Total Connected (A): 0	
													Total Demand (A): 0	
mand L	oad o	calculated as outlined by articles 2	220, 430, an	d 440 of th	ne Natio	nal Elect	trical Cod	de					I	
narks:			-,,-											

	upply Mou Encle	cation: ELECTRICAL 170 From: DP-1C Inting: Surface osure: Type 1 Inting: Type 1							Volts: 1 Viring: 3		•		A.I.C. Rating Available Fault Current Mains Rating Mains Ty	(A): (A): 225	
Remarks		Load Name	Poles	Size (A)		<b>A</b>	В	<u> </u>		<b>:</b>	Size (A)	Poles	Load Name	СКТ	Remark
1	1	Kitchen Equipment - Non-Dwelling	3	45	2,990	1,664					20		Receptacle	2	1
1	3				,	,	2,990	1,664						4	1
1	5								2,990	1,664	20	2	Receptacle	6	1
1	7	Kitchen Equipment - Non-Dwelling	3	20	720	1,664								8	1
1	9						720	1,920			20	1	Receptacle	10	1
1	11								720	816	20	1	Receptacle	12	1
1	13	•	1	20	600	900					20	3	Kitchen Equipment - Non-Dwellin	-	1
1	15	Receptacle	1	20			1,920	900						16	1
1,2	17	Receptacle	1	20					816	900				18	1
1,2	19	Shunt Trip Space			0	900					20	3	Kitchen Equipment - Non-Dwellin	-	1
1	21	Receptacle	1	20			1,920	900						22	1
1	23	Receptacle	1	20					1,344	900				24	1
1	25	Receptacle	1	20	1,800	1,680					20	1	Receptacle	26	1
1	27	Receptacle	1	20			1,920	0			20	1	Existing Load	28	1,3
1	29	Receptacle	1	20					720	0	20	1	Existing Load	30	1,3
1	31	Receptacle	1	20	1,920	0					20	1	Existing Load	32	1,3
1	33	Receptacle	1	20			1,920	0	4.000		20	1	Existing Load	34	1,3
1	35	•	1	20	0.070	•			1,920	0	20	1	Existing Load	36	1,3
1	37	•	1	25	2,376	0	4.000				20	1	Spare	38	1
1	39	Receptacle	1	20			1,920	0	4.000	0	20	1	Spare	40	1
1	41	Receptacle	1	20					1,920	0	20	1	Spare	42	1
	43													44	
	45 47													46 48	
	49 51													50 52	
	53													54	
	55													56	
	57													58	
	59													60	
	61													62	
	63													64	
	65													66	
	67													68	
	69													70	
	71													72	
	I	т.	otal Lo	ad (VA):	17,	214	18,6	694	14,	710		I	<u>I</u>	I	1
			T	otal (A):	14	<b>17</b>	15	9	12	23			Panel Totals		
												To	tal Connected Load (VA): 50,61	9	
													otal Demand Load* (VA): 35,26		
													Total Connected (A): 141		
													Total Demand (A): 98		
			400	1.440 511	<b></b>										
Demand lemarks:		calculated as outlined by articles 220, 4	+3∪, an	u 440 0† ti	ne Natio	nai Elec	uricai Cod	<del></del>							
		FCI CIRCUIT BREAKER. HUNT TRIP CIRCUIT BREAKERS FO													

	upply Mou Encl	cation: BOILER ROOM 003 From: unting: Surface osure: Type 1							Volts: 1 Viring: 3		-		Available Fault Cu Mains R	ating (A): rrent (A): ating (A): 200 ins Type: MCB	
		otions:	Dalaa	Size (A)	<b>A</b> (	3/4)	D. (1	\/A\	0.0	\/A\	Sizo (A)	Dalaa	L and Name	CVT	Damanda
Remarks	1	Load Name EXISTING LOAD	Poles 1	0 0	0 0	<b>VA)</b>	В(	VA)	C (	VA)	<b>Size (A)</b>		Load Name EXISTING LOAD	2	Remark
	3	EXISTING LOAD	1	0	0	0	0	0			0	1	EXISTING LOAD	4	
	5	EXISTING LOAD	1	0				0	0	0	0		EXISTING LOAD	6	
	7	EXISTING LOAD	1	0	0	0					0	1	EXISTING LOAD	8	
	9	EXISTING LOAD	1	0			0	0			0	1	EXISTING LOAD	10	
	11	EXISTING LOAD	1	0					0	0	0	1	EXISTING LOAD	12	
	13	Spare	1	20	0	0					20	1	Spare	14	
	15	Spare	1	20			0	0			20	1	Spare	16	
	17	Spare	1	20					0	0	20	1	Spare	18	
	19	Spare	1	20	0	0					20	1	Spare	20	
	21	Spare	1	20			0	0			20	1	Spare	22	
	23	Spare	1	20					0	0	20	1	Spare	24	
	25	Spare	1	20	0	0					20	1	Spare	26	
	27	Spare	1	20			0	0			20	1	Spare	28	
	29	Spare	1	20					0	0	20	1	Spare	30	
				ad (VA):		0		) )		)					
				otal (A):		0				0			Panel Totals		
													tal Connected Load (VA):		
												Т	otal Demand Load* (VA):		
													Total Connected (A):		
													Total Demand (A):	0	
				1446 50											
		calculated as outlined by articles 22	20, 430, an	a 440 of th	ne Natio	nai Elec	trical Coc	ie							
Remarks:															

Supply Mod Enc	cation: ELECTRICAL 170 From: DP-1C unting: Surface losure: Type 1							Volts: 1 Viring: 3		-		Available Fault Cu Mains R	ating (A): 100 rrent (A): ating (A): 225 ins Type: MC	5
Panel O	•	Poles	Size (A)		A		В		:	Size (A)	Poles	Load Name	СК	T Rema
1		1	20	1,200	500				-	20	1	RC-1	2	
3	Receptacle	1	20			1,200	1,200			20	1	Receptacle	4	
5	Receptacle	1	20					200	1,200	20	1	Receptacle	6	
9	Receptacle	1	20 20	200	1,400	200	800			20 20	1	Receptacle	8	_
11	Receptacle Receptacle	1	20			200	800	200	1,000	20	1	Receptacle Receptacle	12	
	Receptacle	1	20	200	1,000			200	1,000	20	1	Receptacle	14	_
	Receptacle	1	20		,	200	600			20	1	Receptacle	16	
17	•	1	20					1,200	400	20	1	Receptacle	18	
19	•	1	20	1,000	1,000					20	1	Receptacle	20	_
21	Receptacle	3	50			3,667	1,500	3,667	1,500	20 20	1	Receptacle Receptacle	22	
25				3,667	1,200			3,007	1,500	20	1	Receptacle	20	
27	Receptacle	1	20	3,307	1,200	1,000	1,000			20	1	Receptacle	28	
29	Receptacle	1	20			,	,,,,,	1,200	1,200	20	1	Receptacle	30	_
	Receptacle	1	20	1,500	600					20	1	Receptacle	32	_
33	•	1	20			1,500	200	4 ===	4 = =	20	1	Receptacle	34	
35	Receptacle	1	20	1 500	1 205			1,500	1,225	20	1	Lighting	36	_
37 39	Receptacle Receptacle	1	20 20	1,500	1,225	1,500	493			20 20	3	Lighting Receptacle	38	
41	Receptacle	1	20			1,000	733	800	493				42	_
43	Lighting	1	20	1,225	493								44	
	Lighting	1	20			1,225	493			20	3	Receptacle	46	
	Lighting	1	20					410	493				48	_
	Receptacle	3	20	3,333	493	0.000	4.000						50	
51 53						3,333	1,000	3,333	600	20 20	1	Receptacle Receptacle	52 54	
	Receptacle	2	20	200	500			3,333	000	20	2	Receptacle	56	
57						200	500						58	
59	Receptacle	2	20					100	493	20	3	Receptacle	60	)
61				100	493								62	
	Receptacle CORRIDOR 01-C7	1	20 20			200	493	_	0	20	1		64	
67	Spare Spare	1	20	0	0			0	U	20	1	Spare Spare	68	
	Spare	1	20			0	0			20	1	Spare	70	_
	Spare	1	20					0	0	20	1	Spare	72	
	Spare	1	20	0	0					20	1	Spare	74	
75	•	1	20			0	0	_	_	20	1	Spare	76	_
77 79	<u>'</u>	1	20 20	0	0			0	0	20 20	1	Spare Spare	78	
81	<u> </u>	1	20	U	U	0	0			20	1	Spare	82	
83		1	20					0	0	20	1	Spare	84	
	1 .	Total Lo	ad (VA): otal (A):		030 94		505 89	21,: 17	215 77		1			
												Panel Totals		
												otal Connected Load (VA):		
											_	Total Demand Load* (VA):		<u> </u>
												Total Connected (A):		
												Total Demand (A):	118	
Demand Load	calculated as outlined by articles 220	0, 430, and	d 440 of t	the Natio	onal Elect	trical Cod	de							



# CANVONDESIGN

225 North Michigan Avenue, Suite 1100 Chicago, Illinois 60601 T: 312.332.9600 F: 312.332.9601

PROFESSIONAL DESIGN FIRM LICENSE NUMBER 184.005683

S2O CONSULTANTS, INC
Kitchen Consultants
13 Winding Branch Rd
Hawthorn Woods IL 60047
224-717-1999

ARC DESIGN RESOURCES INC.
Civil Consultants
5291 Zenith Parkway
Loves Park IL 61111
(815) 484-4300

ISSUED FOR BID 12/11/2015

Description Date

PANEL SCHEDULES

0622



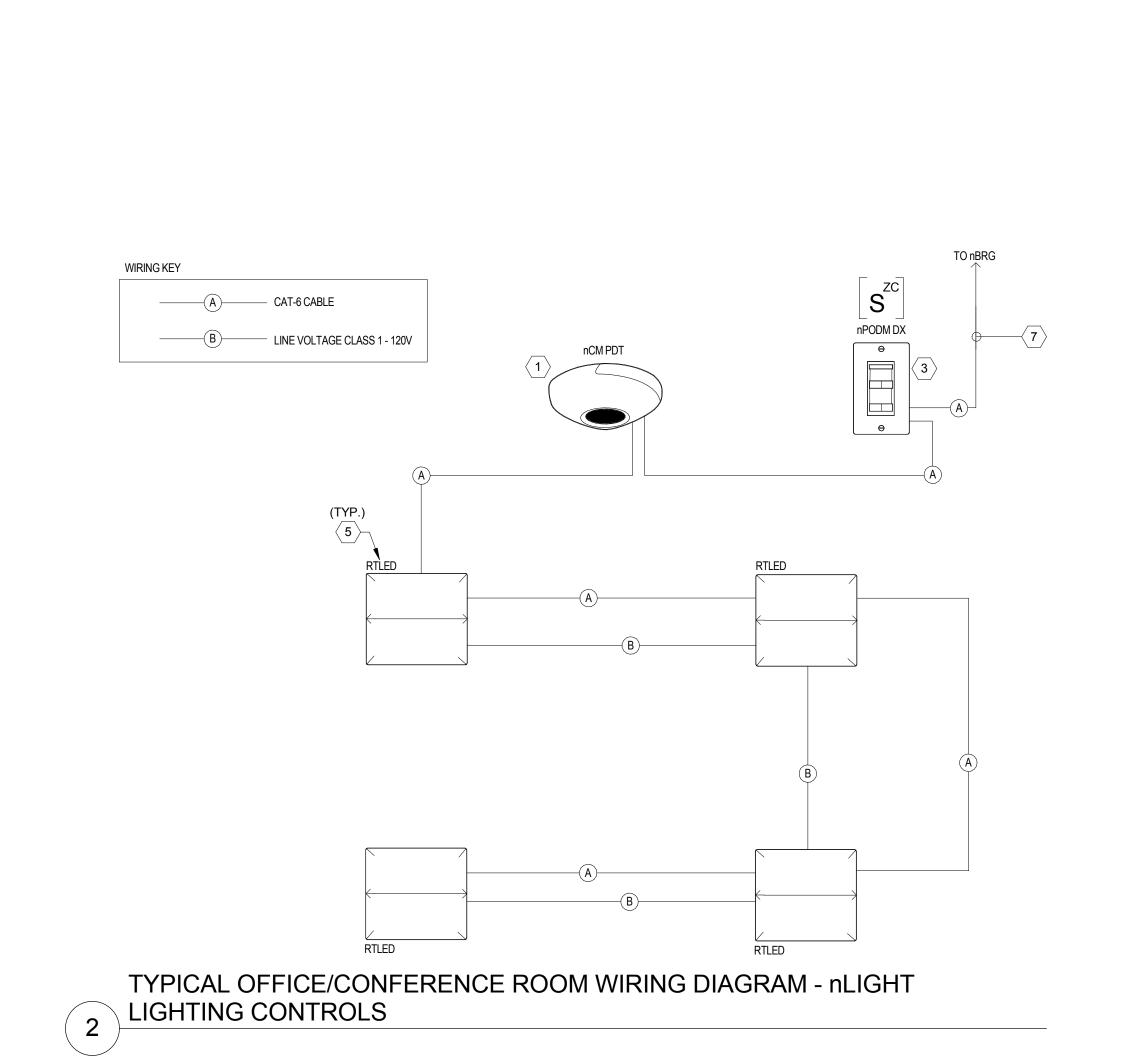
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WIRING KEY

\_\_\_\_\_\_ CAT-6

A - DAYLIGHT ZONE B - CONTROLLED ZONE

B LINE VOLTAGE CLASS 1 - 120V

TYPICAL CLASSROOM WIRING DIAGRAM - nLIGHT LIGHTING
CONTROLS

1 ISSUED FOR BID

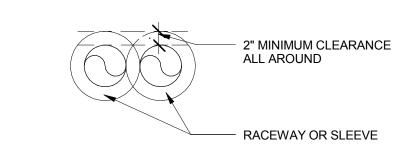
Drawing Title:

LIGHTING DETAILS

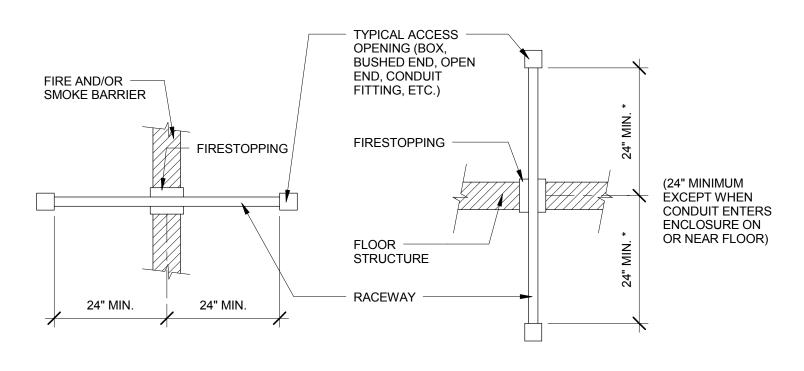
Description

Project No.: 004645.05

E0701



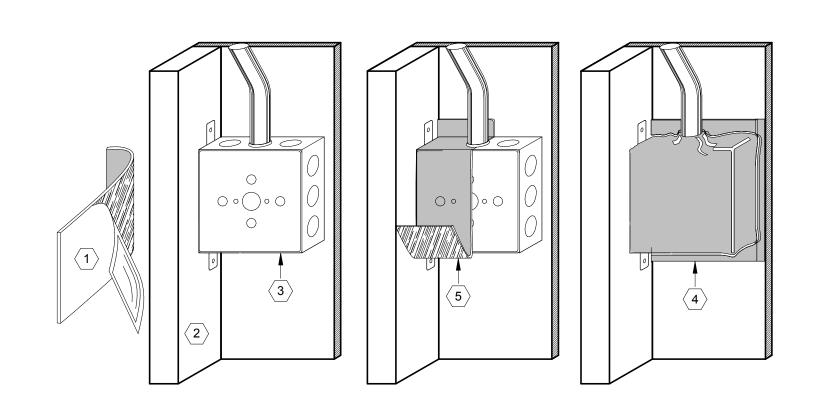
### **CLEARANCE REQUIREMENTS**



**ELEVATION** 

**ELEVATION** 

# PENETRATION THROUGH VERT. HORIZ. FIRE AND SMOKE BARRIER



#### KEYED NOTES:

FIRE RATED BUTYL RUBBER BASED INTUMESCENT PUTTY PAD, SIZED FOR BOX.

TYPICAL WALL STUD.

3. TYPICAL STEEL OUTLET BOX.

4. OVERLAP PUTTY PADS AT TOP, BOTTOM, AND SIDES. MOLD PAD SO THERE IS NOT A GAP BETWEEN THE DRYWALL AND THE PUTTY.

5. COMPLETELY SEAL ALL KNOCKOUTS AND OPENINGS IN THE BOX.

OUTLET BOX WITH FIRE-RATED PUTTY PADS

### CAULK GUN APPLIED SEALANT AROUND WITH SLOPED TIGHT PACKED DRY GROUT FILL, PLACE IN CORE CUT ALL AROUND MINERAL WOOL OR APPROVED EQUAL PACKING MATERIAL CORE DRILL — HOLE 1/2" DIA. - MIN 1" FIRESTOPPING CAULK IN PLACE ALL AROUND ELECTRICAL RACEWAY

4 AFTER SET SLEEVE IN CONCRETE FLOOR SLAB

REST PIPE CLAMP -ON TOP OF SLEEVE

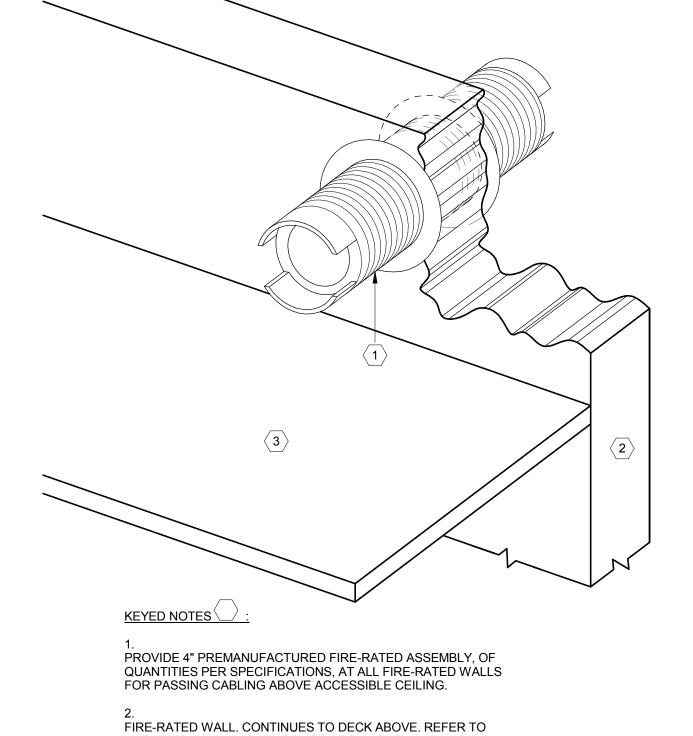
RIGID GALVANIZED STEEL SLEEVE

LESS THAN

SLEEVE SIZE

OR MECHANICAL PIPE

CONCRETE — FLOOR SLAB



FIRE-RATED WALL. CONTINUES TO DECK ABOVE. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS. 3. ACCESSIBLE CEILING.

FIRESTOP SLEEVE



ROCKFORD PUBLIC SCHOOLS RIVERDAHL ELEMENTARY **SCHOOL - ADDITION & RENOVATION** 

# CANVONDESIGN

225 North Michigan Avenue, Suite 1100 Chicago, Illinois 60601 T: 312.332.9600 F: 312.332.9601

PROFESSIONAL DESIGN FIRM LICENSE NUMBER 184.005683

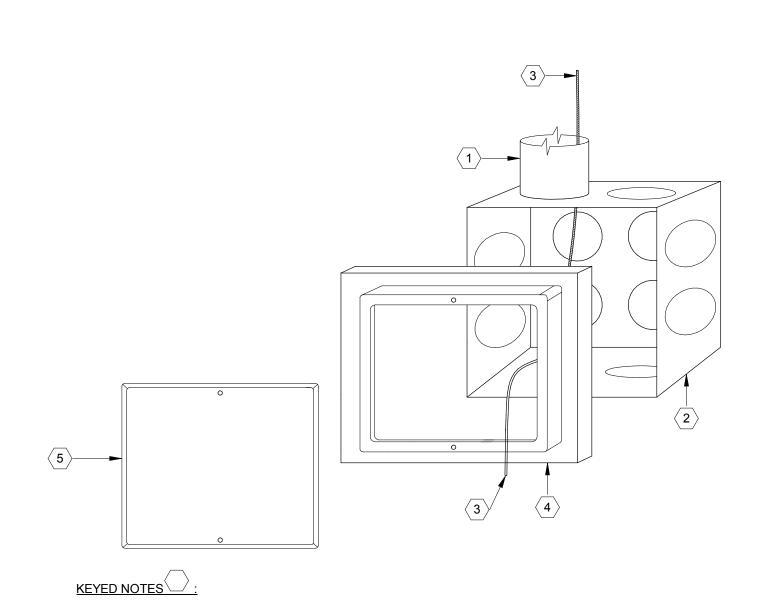
S2O CONSULTANTS, INC Kitchen Consultants 13 Winding Branch Rd Hawthorn Woods IL 60047 224-717-1999

ARC DESIGN RESOURCES INC.
Civil Consultants
5291 Zenith Parkway
Loves Park IL 61111
(815) 484-4300

ISSUED FOR BID Date Description

Drawing Title: **POWER DETAILS** 

Project No.: 004645.05 Checked by: JE



CONDUIT STUBBED INTO [ACCESSIBLE CEILING SPACE].

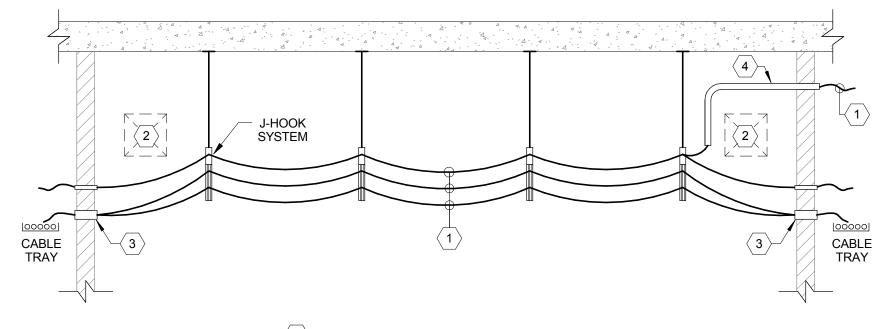
4 -1/16" X 4-11/16" SQUARE BACK BOX/ 3-1/2" DEEP.

NYLON PULL CORD TO CONDUIT TERMINATION ENDPOINT.

DOUBLE GANG ADAPTER RING FLUSH TO WALL FINISH.

DOUBLE GANG BLANK COVERPLATE.

# TELECOMMUNICATIONS TWO-GANG ROUGH IN



KEYED NOTES \\_\_\_\_

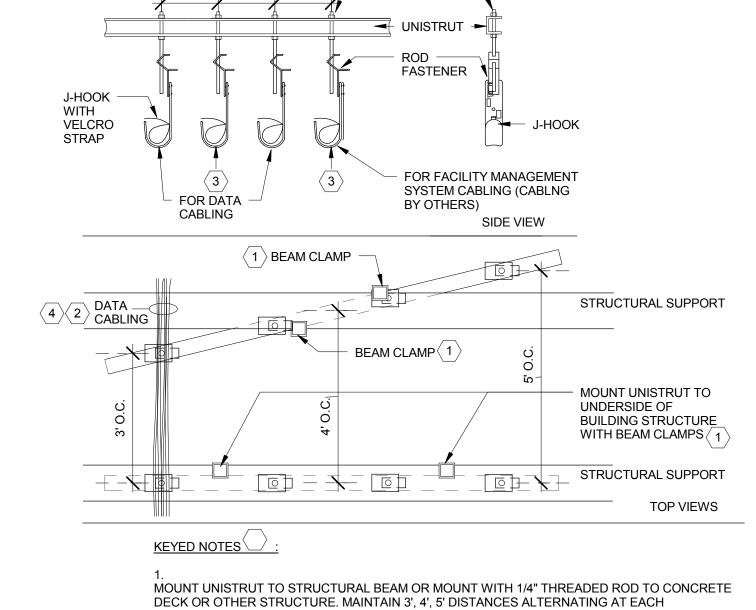
DATA COMMUNICATIONS CABLE WITH MAXIMUM 3" TO 5" SAG BUNDLED SEPARATELY FROM OTHER SYSTEMS.

POTENTIAL OBSTRUCTIONS.

CONDUIT SLEEVE OR FIRE RATED ASSEMBLY. ASSURE THERE ARE NO OBSTRUCTIONS FOR COMMUNICATIONS CABLING.

REROUTE COMMUNICATIONS CABLING THROUGH CONDUIT AROUND OBSTRUCTIONS.

### J-HOOK CABLE SUPPORT INSTALLATION



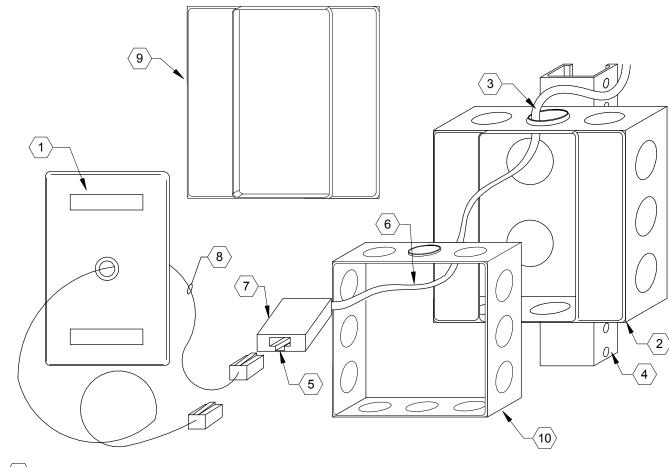
1/4" THREAD -ROD (TYPICAL)

INSTALL DATA CABLING IN J-HOOKS, MAXIMUM OF 30 DATA CABLES IN A J-HOOK.

PROVIDE ADDITIONAL J-HOOKS AS REQUIRED. MINIMUM OF ONE SPARE IN ALL LOCATIONS.

PROVIDE A PULL STRING FOR EACH PATHWAY OF J-HOOKS TO THE TERMINATION LOCATION. INSTALL PULL STRING ON TOP OF BUNDLE AT COMPLETION OF CABLE INSTALLATION.

J-HOOK MOUNTING ASSEMBLY



#### KEYED NOTES 🔙

SINGLE GANG STAINLESS STEEL COVERPLATE WITH 5/8" HOLE, GROMMET, AND MOUNTING HARDWARE.

4 11/16" X 4 11/16" SQUARE OUTLET BOX, WITH SINGLE GANG ADAPTER RING MOUNTED ABOVE CEILING.

GROMMET ON OPENINGS TO PROTECT CABLING.

MOUNT BOX SECURELY TO STRUCTURE OR UNISTRUT.

MODULAR JACK 110 TO RJ45 WITH ICONS, UNIVERAL WIRING PATTERN NON-KEYED, EIGHT POSITION (4-PAIR).

TWISTED PAIR TYPE 4 PAIR, HORIZONTAL CABLE.

INSTALL MODULAR JACK INTO BISCUIT JACK AND MOUNT TO INTERIOR OF BACKBOX.

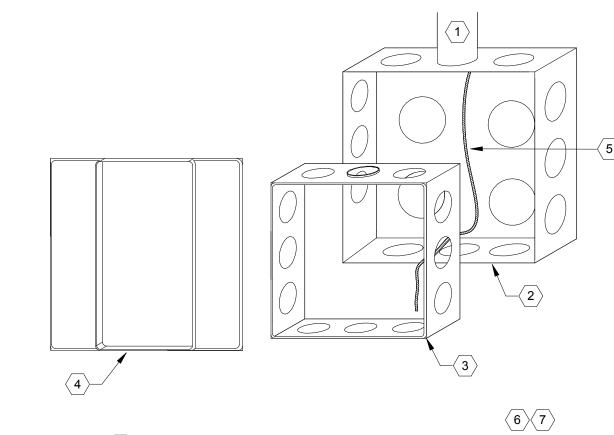
PROVIDE PLENUM RATED, 15' PATCH CORD. ROUTE THROUGH FACEPLATE HOLE. COIL ON EXTERIOR OF FACEPLATE TO REACH FINAL LOCATION OF WAP.

SINGLE GANG ADAPTER.

4-11/16" X 4-11/16" X 1-1/2" DEEP SQUARE OUTLET BOX EXTENSION RING.

COORDINATE WITH SPECIFIC BACKBOX DEVICE SYMBOLS AS SHOWN ON DRAWINGS TO DETERMINE ROUGH-IN REQUIREMENTS

# TELECOMMUNICATIONS OUTLET 'WAP'



### KEYED NOTES:

#### CONDUIT STUB TO ACCESSIBLE CEILING. PROVIDE DIAMETER AS LISTED IN TELECOMMUNICATIONS OUTLET SCHEDULE. [EDITORS NOTE: CONDUIT TERMINATION. DELETE TELECOM OUTLET SCHEDULE REFERENCE IF ROUGH-IN ONLY].

4-11/16" X 4-11/16" SQUARE BOX, 2-1/8" DEEP.

4-11/16" X 4-11/16" X 1-1/2" DEEP SQUARE BOX EXTENSION.

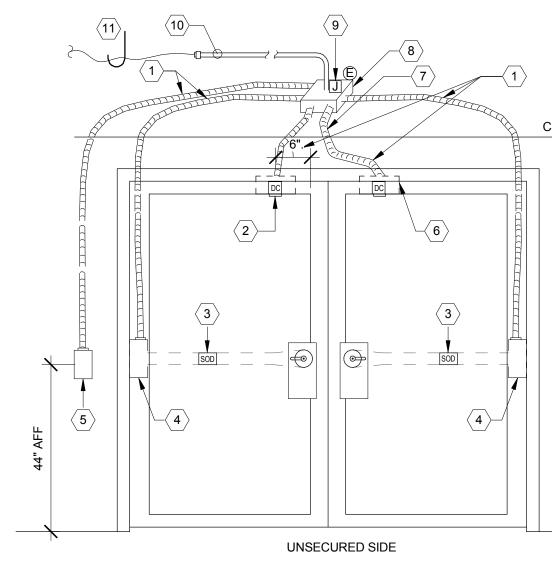
SINGLE GANG ADAPTER FLUSH TO WALL FINISH.

NYLON PULL CORD TO FAR END CONDUIT TERMINATION POINT.

REFER TO SYMBOL LIST FOR OUTLET BOX MOUNTING HEIGHT.

REFER TO TELECOMMUNICATIONS OUTLET SCHEDULE SUBSCRIPT FOR DEVICE PLATE, CABLING AND JACK REQUIREMENTS. **[EDITORS NOTE: DELETE NOTE IF ROUGH-IN ONLY].** 

# TELECOMMUNICATIONS SINGLE GANG ROUGH-IN



COORDINATE WORK WITH DIVISION 8 AND DIVISION 28

HOLE (CENTERED IN BOX) SECURITY OVERRIDE DEVICE LOCATED IN PANIC BAR. (PROVIDED BY DIV. 8, CONNECTED BY DIV. 26.) 4. 1-GANG HINGE MORTAR GUARD BOX WELDED TO FRAME AT HEIGHT OF ELECTRIC POWER TRANSFER HINGE. HINGE BY DOOR HARDWARE INSTALLER. CARD READER 2-GANG JUNCTION BOX. LOCATED ON UNSECURED SIDE OF DOOR AS SHOWN ON DRAWINGS. COORDINATE INSTALLATION OF MULLION MOUNTED DEVIC WITH DIVISION 8 AS SHOWN ON FLOOR PLANS. 6. MORTAR GUARD BOX FOR FLUSH MAGNETIC DOOR CONTACT.

3/4" FLEXIBLE CONDUIT WITH PULL

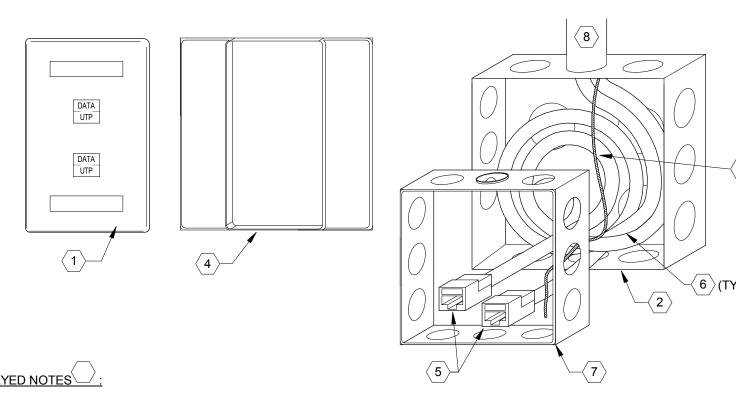
KEYED NOTES :

STRING

ROUTE THROUGH ALUMINUM FRAME AT STOREFRONT/CURTAIN WALL LOCATIONS AS REQUIRED 8. MOUNT DEVICES ON SECURE SIDE OF

ENCLOSURE SHALL CONTAIN READER INTERFACE MODULE AND POWER SUPPLY FOR DOOR DEVICES 10. BUSHED 1"C TO CABLE TRAY SYSTEM WITH PULL STRING

11. SECURE J-HOOK TO STRUCTURE. SUPPORT CABLING IN J-HOOKS ABOVE SUSPENDED CEILING TO NETWORK 281300.15 - DOUBLE DOOR WITH CARD READER CONTROLLER.



#### KEYED NOTES \_\_\_\_\_

2 PORT, SINGLE GANG COVERPLATE WITH LABELS AND MOUNTING HARDWARE. PROVIDE BLANK INSERTS FOR ALL UNUSED

4-11/16" X 4-11/16" SQUARE OUTLET BOX, WITH SINGLE GANG ADAPTER RING.

NYLON PULL CORD TO FAR END CONDUIT TERMINATION POINT.

SINGLE GANG ADAPTER.

MODULAR JACK 110 TO RJ45 WITH ICONS, UNIVERSAL WIRING PATTERN, NON KEYED, EIGHT POSITION (4 PAIR).

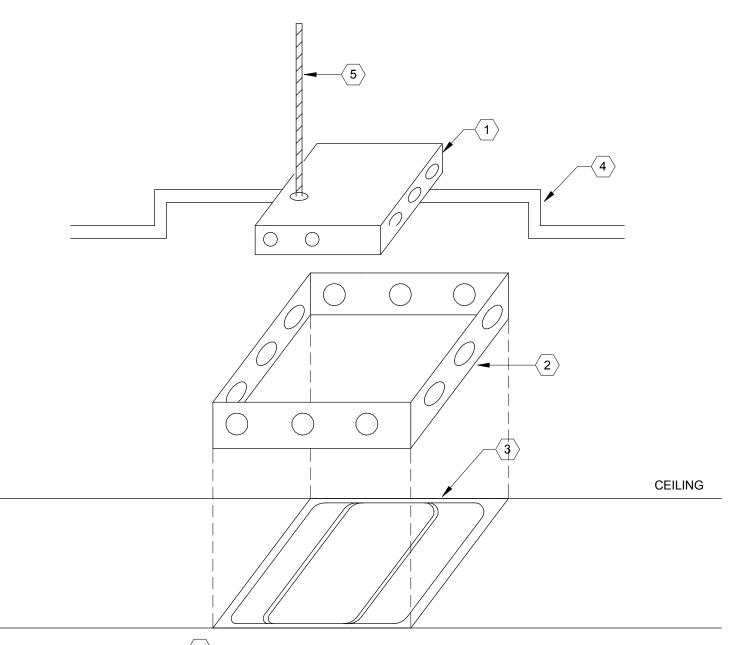
TWISTED PAIR TYPE 4 PAIR, HORIZONTAL CABLE, FROM LOCAL TELECOMMUNICATIONS ROOM, WITH SERVICE LOOP.

4-11/16" X 4-11/16" X 1-1/2" DEEP SQUARE OUTLET BOX EXTENSION RING.

CONDUIT STUB TO ACCESSIBLE CEILING SPACE.

COORDINATE WITH SPECIFIC BACKBOX DEVICE SYMBOLS AS SHOWN ON DRAWINGS TO DETERMINE ROUGH-IN REQUIREMENTS AND LOCATIONS.

#### TELECOMMUNICATIONS OUTLET 'D2'



#### KEYED NOTES \_\_\_\_

4-11/16" X 4-11/16" X 2-1/8" DEEP SQUARE OUTLET BOX.

4-11/16" X 4-11/16" X 1-1/2" DEEP SQUARE OUTLET BOX EXTENSION RING

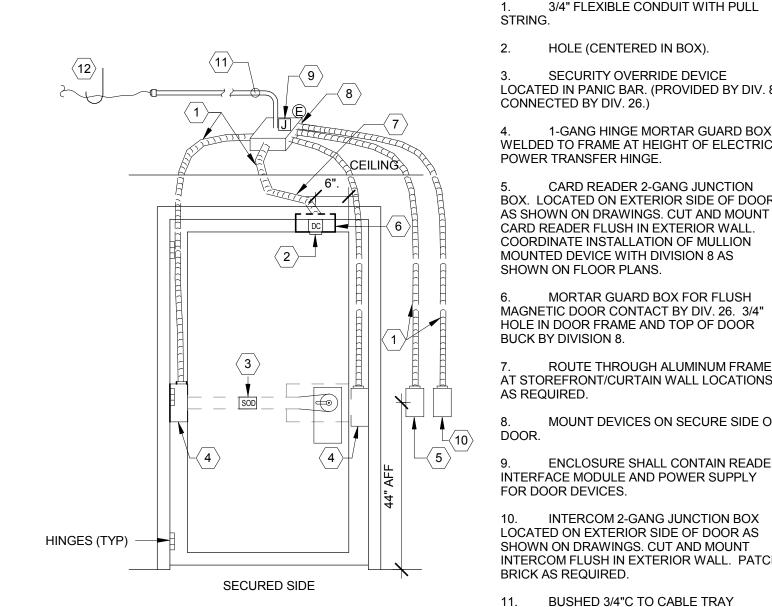
SINGLE GANG ADAPTER.

CEILING TILE SUPPORT BRACKET.

INSTALL THREADED ROD TO SUPPORT BOX FROM DECK IN LIEU OF TILE BRACKET WHERE REQUIRED.

SYMBOL =

# TELECOMMUNICATIONS ROUGH-IN OUTLET AT CEILING



COORDINATE WORK WITH DIVISION 8 AND DIVISION 28

KEYED NOTES : 3/4" FLEXIBLE CONDUIT WITH PULL

SECURITY OVERRIDE DEVICE LOCATED IN PANIC BAR. (PROVIDED BY DIV. 8, CONNECTED BY DIV. 26.) 1-GANG HINGE MORTAR GUARD BOX

WELDED TO FRAME AT HEIGHT OF ELECTRIC POWER TRANSFER HINGE. BOX. LOCATED ON EXTERIOR SIDE OF DOOR

AS SHOWN ON DRAWINGS. CUT AND MOUNT CARD READER FLUSH IN EXTERIOR WALL. COORDINATE INSTALLATION OF MULLION MOUNTED DEVICE WITH DIVISION 8 AS SHOWN ON FLOOR PLANS. MORTAR GUARD BOX FOR FLUSH

MAGNETIC DOOR CONTACT BY DIV. 26. 3/4" HOLE IN DOOR FRAME AND TOP OF DOOR BUCK BY DIVISION 8.

AT STOREFRONT/CURTAIN WALL LOCATIONS AS REQUIRED. MOUNT DEVICES ON SECURE SIDE OF

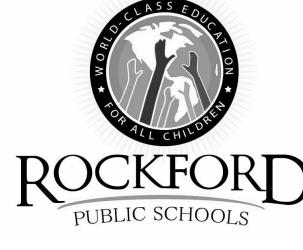
9. ENCLOSURE SHALL CONTAIN READER INTERFACE MODULE AND POWER SUPPLY FOR DOOR DEVICES. INTERCOM 2-GANG JUNCTION BOX LOCATED ON EXTERIOR SIDE OF DOOR AS SHOWN ON DRAWINGS. CUT AND MOUNT

INTERCOM FLUSH IN EXTERIOR WALL. PATCH BRICK AS REQUIRED. 11. BUSHED 3/4"C TO CABLE TRAY

SYSTEM WITH PULL STRING. 12. SECURE J-HOOK TO STRUCTURE. SUPPORT CABLING IN J-HOOKS ABOVE

SUSPENDED CEILING TO NETWORK

281300.13 - SINGLE DOOR WITH CARD READER AND INTERCOM



**ROCKFORD PUBLIC SCHOOLS** RIVERDAHL ELEMENTARY

# CANVONDESIGN

SCHOOL - ADDITION &

**RENOVATION** 

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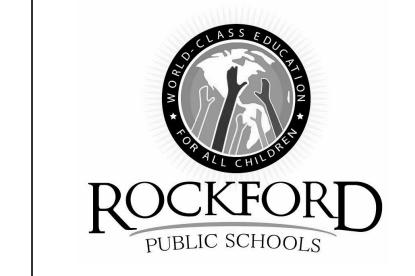
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Description

**TECHNOLOGY DETAILS** 

Drawing Title:

Project No.: 004645.05 Checked by: JE



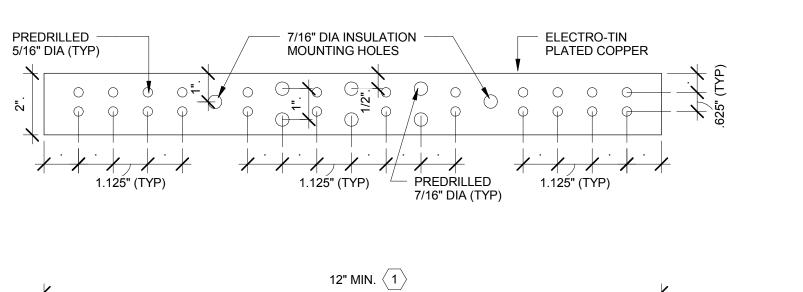
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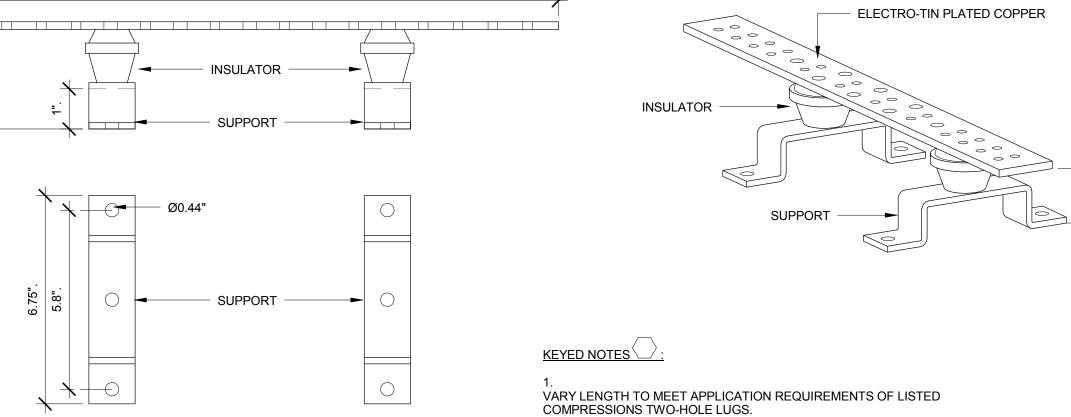
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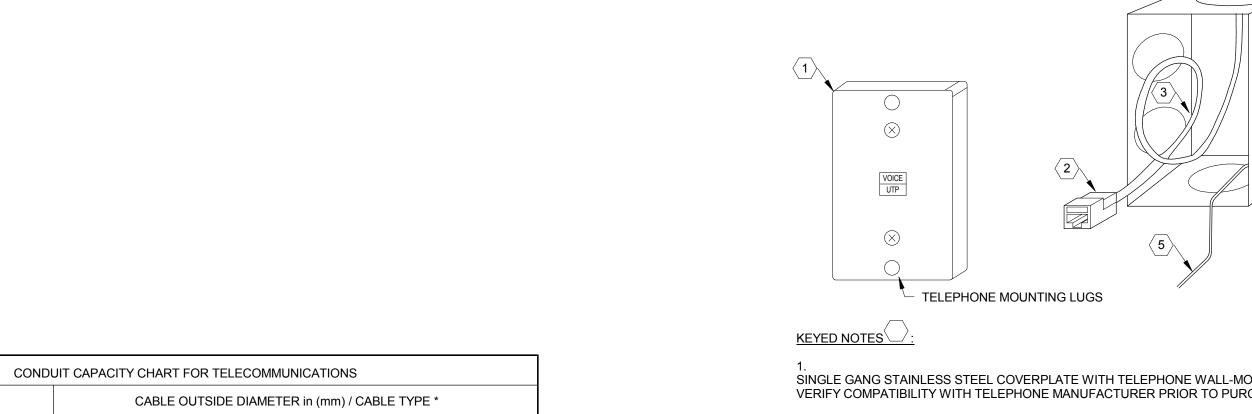
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TELECOMMUNICATIONS GROUNDING BUSBAR (TGB)



				TELEPHONE MOUNTING LUGS
				KEYED NOTES :
CABLE TY	/PE *			1. SINGLE GANG STAINLESS STEEL COVERPLATE WITH TELEPHONE WALL-MOUNTING LUGS. VERIFY COMPATIBILITY WITH TELEPHONE MANUFACTURER PRIOR TO PURCHASE.
.31 (7.9) CAT 6A STP	.37 (9.4)	.53 (13.5)	.53 (13.5)	2. MODULAR JACK, 110 TO RJ45, UNIVERSAL WIRING PATTERN NON KEYED, EIGHT POSITION PAIR).
2 3 4	1 2 3	0 1 1	0 1 1	3. TWISTED PAIR TYPE 4 PAIR, HORIZONTAL CABLE FROM LOCAL TELECOMMUNICATIONS ROWITH SERVICE LOOP.
6 12 14 20	4 7 12 17	2 4 6	2 4 6	4. SINGLE GANG COMMUNICATIONS OUTLET BOX WITH SINGLE GANG MOUNTING BRACKET.
- -	22 30	12 14	5. NYLON PULL CORD TO TELECOMMUNICATIONS ROOM. 6.	
	!			CONDUIT STUB INTO ACCESSIBLE CEILING SPACE.
. VERIFY CABLE OUTSIDE			TSIDE	7. COORDINATE WITH SPECIFIC BACKBOX DEVICE SYMBOLS AS SHOWN ON DRAWINGS TO DETERMINE ROUGH-IN REQUIREMENTS AND LOCATIONS.
IZED IN A	SINGLE C	ONDUIT.	NDUIT.	

FIBER OPTIC 12 PORT PATCH PANEL. 6 STRAND MULTIMODE CABLE FROM EXISTING BASEMENT MDF. SPACE RESERVED FOR OWNER PROVIDED NETWORK ELECTRONICS SWITCH. HORIZONTAL WIRE MANAGERS (2RU). 48-PORT PATCH PANEL (2RU). CABLING TO DATA/TELEPHONE OUTLETS. OWNER PROVIDED UPS. PLUGSTRIP HORIZONTAL. ELECTRICAL CONNECTION. GROUNDING BAR KIT AND GROUNDING CONDUCTOR ROUTED TO AND BONDED TO PANELBOARD FOR TELECOMMUNICATIONS EQUIPMENT'S ACEG BUS, (WHEN SO EQUIPPED), OR PANELBOARD ENCLOSURE.

**IRREVERSIBLE** CONNECTION

(TYP)

3/4 6 5 4 3 2 1-1/4 1-1/2 2-1/2 3 3-1/2 103 NOTES: CABLE TYPE SHOWN IS FOR TYPICAL CABLES AND VARIES FROM MANUFACTURER. DIAMETER OF ACTUAL MANUFACTURER UTILIZED PRIOR TO ROUGH-IN. UTILIZE ACTUAL FILL RATES PER NEC IF CABLES OF MULTIPLE DIAMETERS ARE UTILIZED IN A SINGLE CONDUIT.

1 TELEPHONE OUTLET 'W'

**TECHNOLOGY DETAILS** 

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Drawing Title:

Project No.: 004645.05

Description

Date

IDF RISER DIAGRAM

IRREVERSIBLE CONNECTION

KEYED NOTES

BACKBONE (TBB) SIZE.

KEYED NOTES V

**EXISTING** 

SERVICE-FACILITY

> BONDING CONDUCTOR FOR TELECOMMUNICATIONS

ROUTE TELECOMMUNICATIONS BONDING CONDUCTOR (TBC) FROM TELECOMMUNICATIONS MAIN GROUND BAR (TMBG) AND BOND TO GROUNDING ELECTRODE AT ELECTRICAL SERVICE ENTRANCE (MAIN DP EQUIPMENT GROÙND BÚS). IF MAIN DP EQUIPMENT GROUND BUS IS INACCESSIBLE, BOND TBC TO GROÙNDING ELECTRODE UPSTREAM FROM WATER SERVICE GROUND BOND AND SUPPLEMENTAL GROUND RING/ROD INSTALLATIONS.

MINIMUM CONDUCTOR SIZE SHALL BE LARGER DIAMETER THAN LONGEST TELECOMMUNICATIONS BONDING

MINIMUM CONDUCTOR SIZE SHALL BE ONE GAGE SMALLER IN DIAMETER THAN ASSOCIATED TBB.

TRAY/RUNWAY, STATIC DISAPATIVE FLOORING AND PANELBOARDS LOCATED IN ROOM.

TELECOMMUNICATIONS BONDING

PROVIDE BONDING CONNECTION TO ALL EQUIPMENT PANELS, RACKS, BACKBOARDS, SLEEVES, CABLE

2 CONDUIT CAPACITY CHART

Checked by: JE

