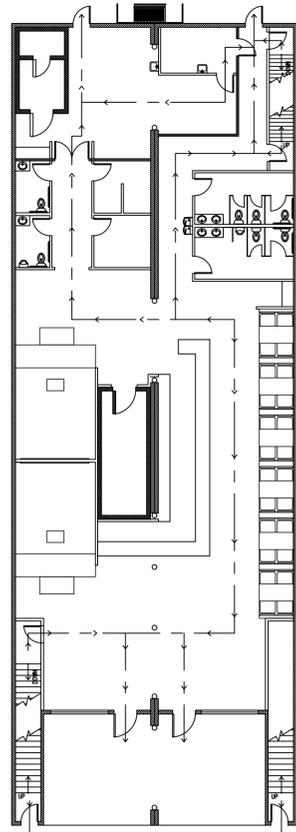


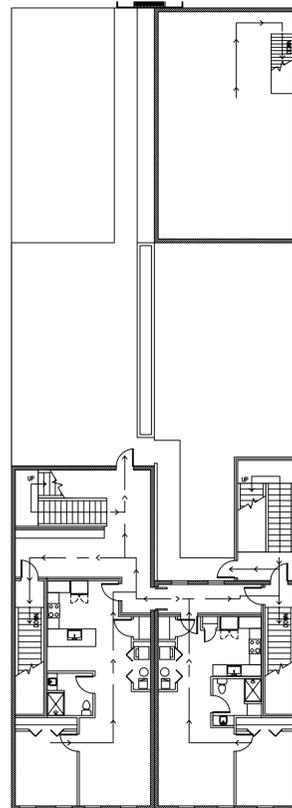


PROJECT LOCATION



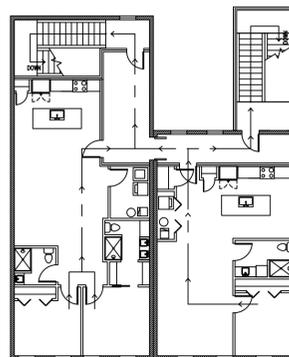
FIRST FLOOR LIFE SAFETY PLAN

SCALE: 1/16" = 1'-0"



SECOND FLOOR LIFE SAFETY PLAN

SCALE: 1/16" = 1'-0"



THIRD FLOOR LIFE SAFETY PLAN

SCALE: 1/16" = 1'-0"

IBC CODE REVIEW			
CODE REQUIREMENTS	REFERENCE	ALLOWABLE OR REQUIRED	
OCCUPANCY GROUP			
First Floor	Chapter 3	A-3 (Restaurant/Bar), B Business (Offices)	
Second Floor	Chapter 3	R-2 (apartments)	
Third Floor	Chapter 3	R-2 (apartments)	
Construction Type	Table 601	Type 3B	
Sprinkler System: The building shall be equipped throughout the first floor with an automatic fire sprinkler system designed in accordance with NFPA 13. The building shall be equipped throughout all remaining floors with an automatic fire sprinkler system designed in accordance with NFPA 13R.			
BUILDING HEIGHT & AREA			
Height Allowed	Table 504.3	60'	
Number of Stories Allowed	Table 504.4	4 stories	
Allowable Area Factor	Table 506.2	38,000 sqft allowable first floor. 16,000 sqft per allowable remaining floors. (no increase formula required.)	
ACTUAL HEIGHT: 39'-0"			
ACTUAL FLOOR AREAS:			
BUILDING AREA:			
First Floor	7,000	Sq. Ft	
Second Floor	3,400	Sq. Ft	
Third Floor	2,500	Sq. Ft	
TOTAL BUILDING AREA	12,900	Sq. Ft	
BUILDING VOLUME			
First Floor	105,000	Cu. Ft	
Second Floor	40,800	Cu. Ft	
Third Floor	30,000	Cu. Ft	
TOTAL CUBIC BUILDING AREA	175,800	Cu. Ft	
FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)			
Structural Frame	Table 601	0 hour	N/A
Structural Components	704.2, 704.3	0 hour	N/A
Load Bearing Walls - Ext	Table 601	2 hours	
Load Bearing Walls - Int	Table 601	0 hour	N/A
Non-Load Bearing Walls & Partitions - Ext	Table 602	1 hour	
Non-Load Bearing Walls & Partitions - Int	Table 601	0 hour	N/A
Floor Construction Including Support Beams & Joists	Table 601	0 hour	N/A
Roof Construction Including Support Beams & Joists	Table 601	0 hour	N/A
Corridors at R-2 Occupancy only (2nd & 3rd Floor)	Table 1020.1	1/2 hour	
Corridors at B&A-3 Occupancy only (1st Floor)	Table 1020.1	0 hour	N/A
Stairs	713.4, 1023.7	1 hour	
Guest Room Separation	420.2, 708.1	1 hour	
1st Floor Ceiling/2nd Floor Assembly	420.3, 711.2.3	1 hour	
2nd Floor Ceiling/3rd Floor Assembly	420.3, 711.2.3	1 hour	
Enclosure Under Stairways	1011.7.3	1 hour	
Incidental Use Areas: Furnace	Table 509	1 hour	
Incidental Use Areas: Boiler	Table 509	1 hour	
MAX AREA OF WALL OPENINGS AT EXT WALLS	Table 705.8		
Unprotected, Sprinkled	Separation Distance	Percent of Wall Allowed for Opening	
North Wall	5' < X < 10'	25%	
East Wall	5' < X < 10'	25%	
South Wall	5' < X < 10'	25%	
West Wall	5' < X < 10'	25%	
OCCUPANT LOAD			
First Floor: Bar	4500 GSF	15 GSF/occupant	300
First Floor: Kitchen	2000 GSF	200 GSF/occupant	10
First Floor: Offices	500 GSF	150 GSF/occupant	3
Second Floor: Residential	3400 GSF	200 GSF/occupant	17
Third Floor: Residential	2500 GSF	200 GSF/occupant	13
TOTAL OCCUPANT LOAD			343
Means of Egress			
Number of Exits	Table 1006.3.2	2 Min per story	
Stairway Width	1005.3.1 (0.30')	36" Min	
Common Path of Travel	Table 1006.2.1	125'-0" Max	
Travel Distance Limit	Table 1017.2	200'-0" Max	
Corridor Width	1020.2, 1005.1	36" Min	
Dead End Corridor	1020.4	50'-0" Max	

EIBC CODE REVIEW		
Use in Building	Previous Use	New Use
First Floor	A-3, B	A-3, B
Second Floor	R-2	R-2 (apartments)
Third Floor	R-2	R-2 (apartments)
All New groups remain unchanged from originals		
Code Requirements	Reference	Allowable or Required
Existing Stairway shaft		
Existing Stairs		
Existing Guards		
Existing Handrail		
Energy Conservation		
Fire Resistance Rating		

PROJECT: CEE: 4850
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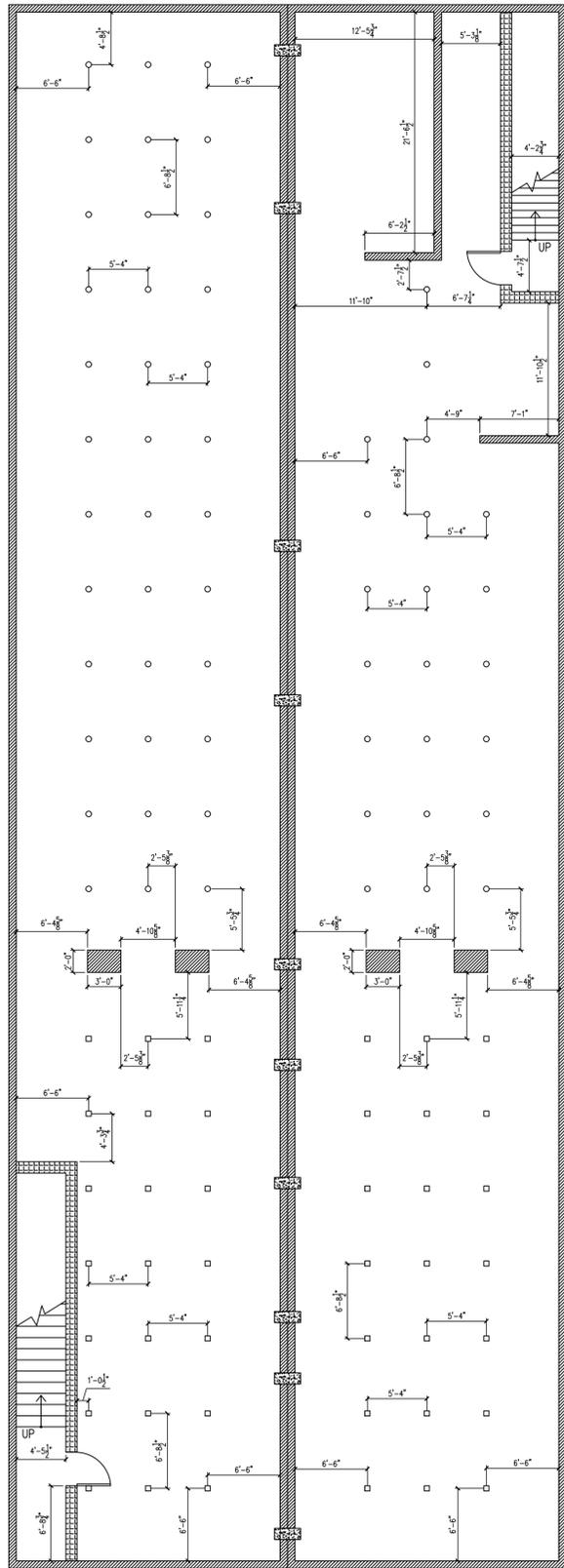
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VINNY'S LOUNGE RENOVATION
 224 FIFTH AVE S
 CLINTON, IA 52732

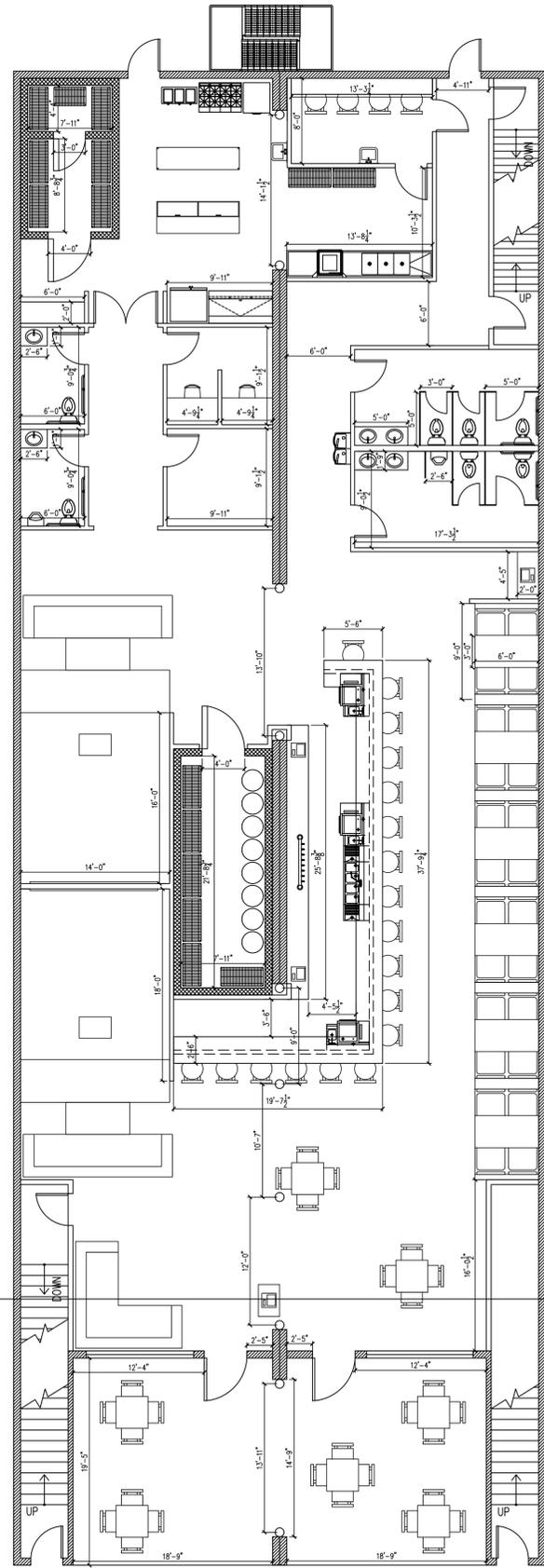
SHEET NAME
COVER PAGE

SHEET NO.



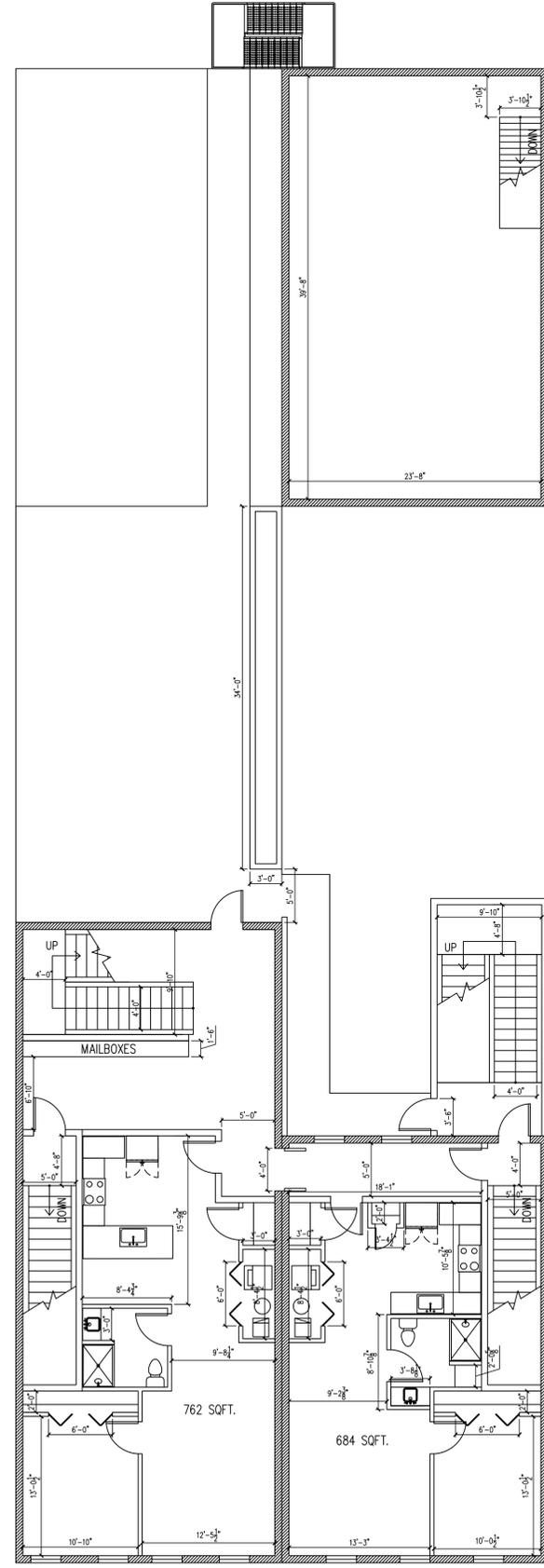
CELLAR ARCHITECTURAL LAYOUT

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



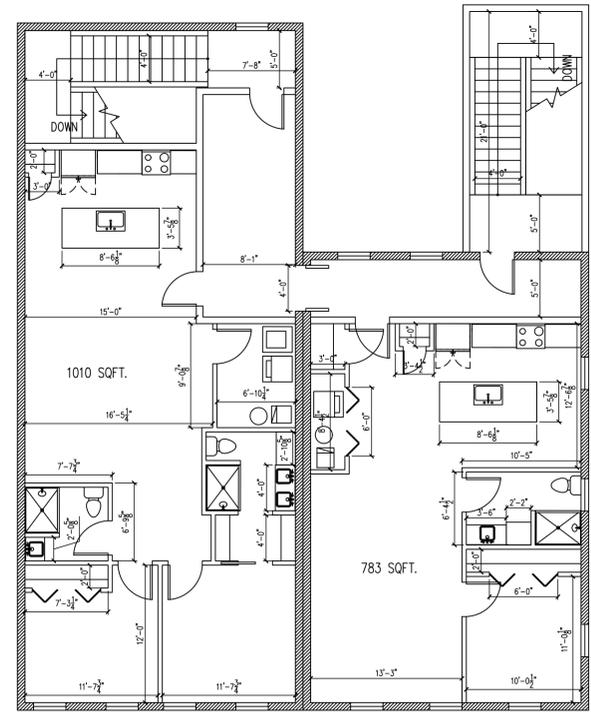
FIRST FLOOR ARCHITECTURAL LAYOUT

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



SECOND FLOOR ARCHITECTURAL LAYOUT

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



THIRD FLOOR ARCHITECTURAL LAYOUT

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

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WALL LEGEND:

-  8" WYTHE BRICK WALL (EXISTING)
-  WALK-IN REFRIGERATOR / FREEZER (VERIFY WITH MANUFACTURER)
-  12" CMU BLOCK WALL
-  DOUBLE DRYWALLED 16" O.C. WOOD STUD FRAMED WALL AS ACCORDING TO FIRE SAFETY PLAN.

PROJECT:	CEE: 4850
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SHEET NAME
 ARCH BUILDING
 LAYOUT PLANS

SHEET NO.
A-100

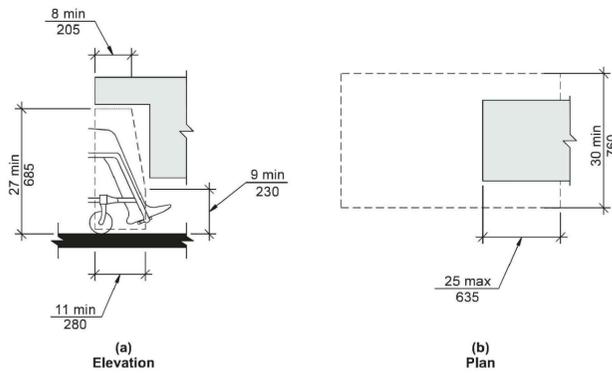


FIG. 306.3
KNEE CLEARANCE

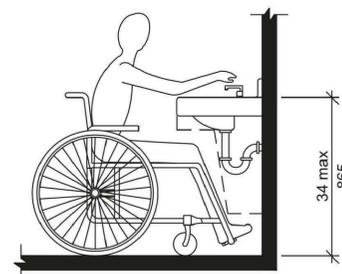
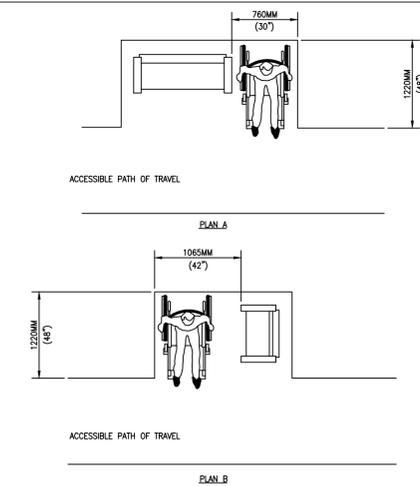
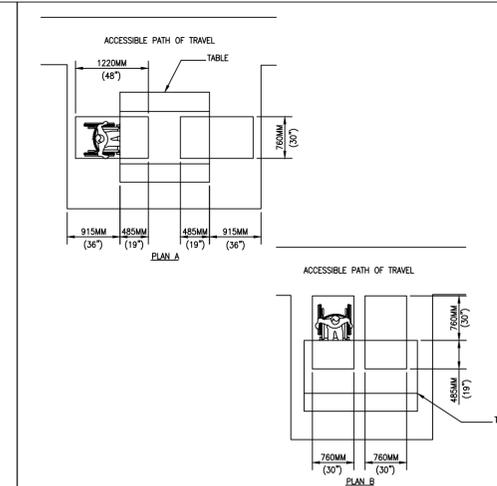


FIG. 606.3
HEIGHT OF LAVATORIES AND SINKS



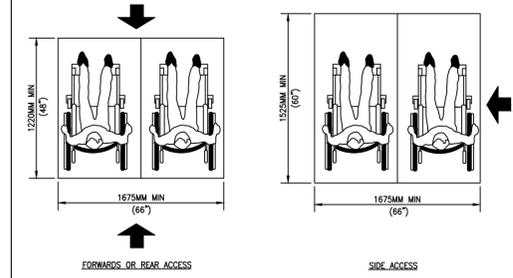
NOTES:
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3. DO NOT SCALE DRAWINGS.

MINIMUM CLEARANCE FOR SEATING
SCALE: NTS



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MINIMUM CLEARANCE FOR TABLES
SCALE: NTS



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SPACE REQUIREMENTS FOR WHEELCHAIRS
SCALE: NTS

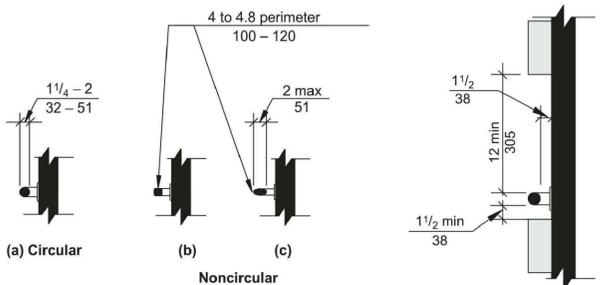


FIG. 609.2
SIZE OF GRAB BARS

FIG. 609.3
SPACING OF GRAB BARS

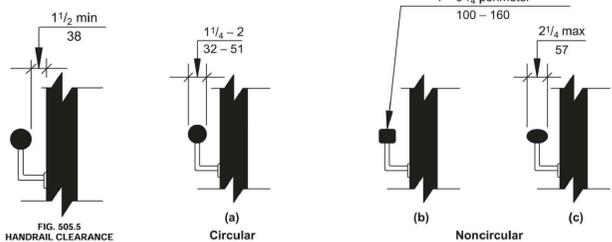


FIG. 505.5
HANDRAIL CLEARANCE

FIG. 505.7
HANDRAIL CROSS SECTION

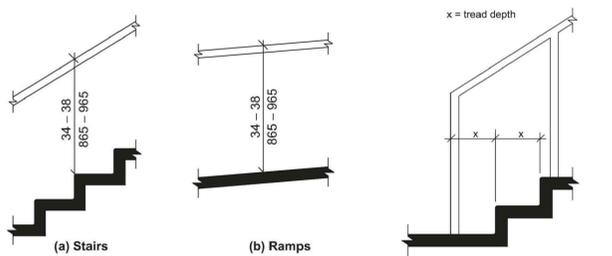


FIG. 505.4
HANDRAIL HEIGHT

FIG. 505.10.3
BOTTOM HANDRAIL EXTENSIONS AT STAIRS

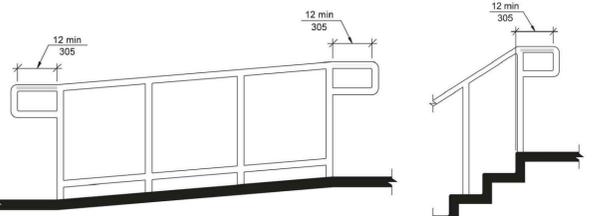


FIG. 505.10.1
TOP AND BOTTOM HANDRAIL EXTENSIONS AT RAMPS

FIG. 505.10.2
TOP HANDRAIL EXTENSIONS AT STAIRS

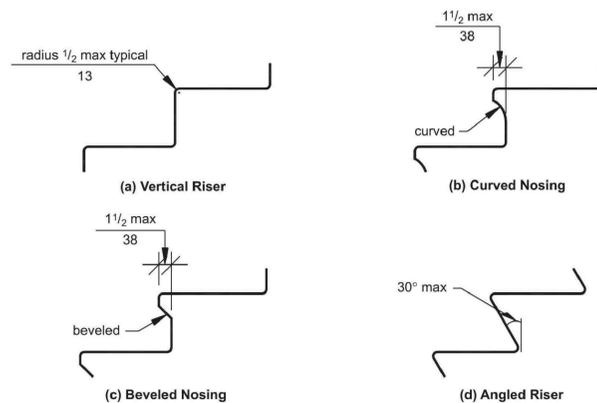
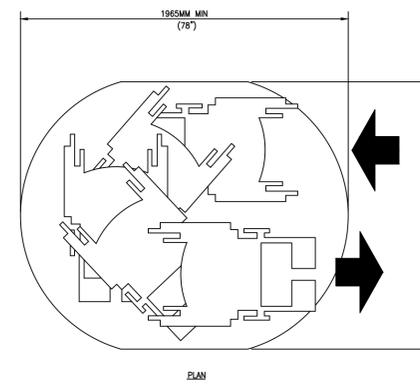
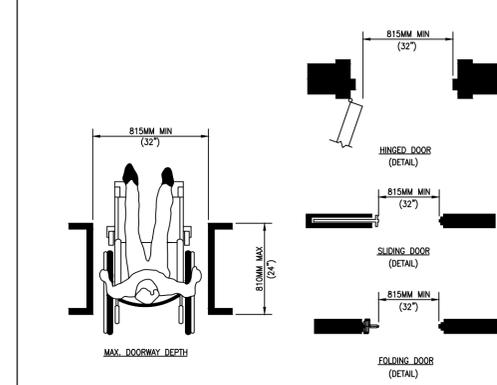


FIG. 504.5
STAIR NOSINGS



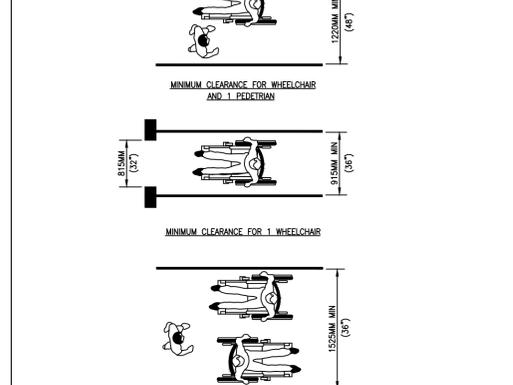
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SPACE NEEDED FOR SMOOTH U-TURN
SCALE: NTS



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ACCESSIBLE DOORWAYS
SCALE: NTS



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ACCESSIBLE PASSAGE WIDTHS
SCALE: NTS

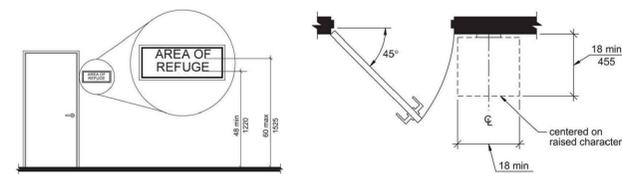


FIG. 703.4.5
HEIGHT OF RAISED CHARACTERS ABOVE FLOOR

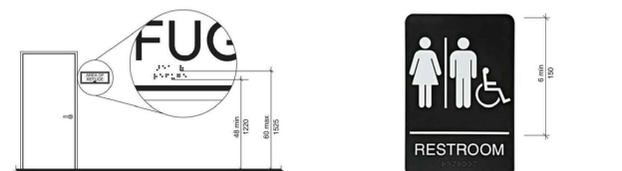


FIG. 703.5
PICTOGRAM FIELD

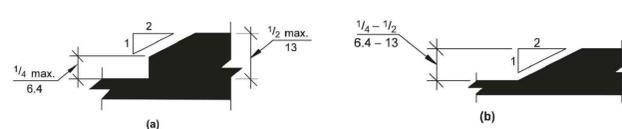
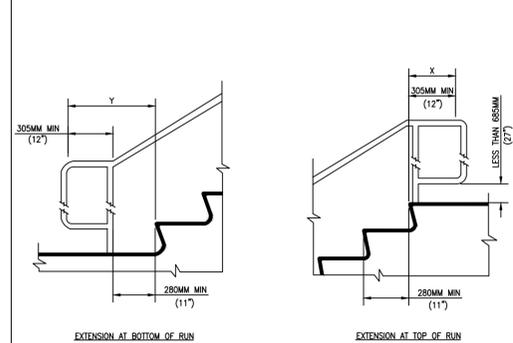


FIG. 303.3
BEVELED CHANGES IN LEVEL



NOTES:
- X IS THE 305MM (12") HANDRAIL EXTENSION REQUIRED AT EACH TOP RISER.
- Y IS THE MINIMUM HANDRAIL EXTENSION OF 305MM (12") PLUS THE WIDTH OF ONE TREAD THAT IS REQUIRED AT EACH BOTTOM RISER.

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4. STAIRWAYS REQUIRE HANDRAILS ON BOTH SIDES.

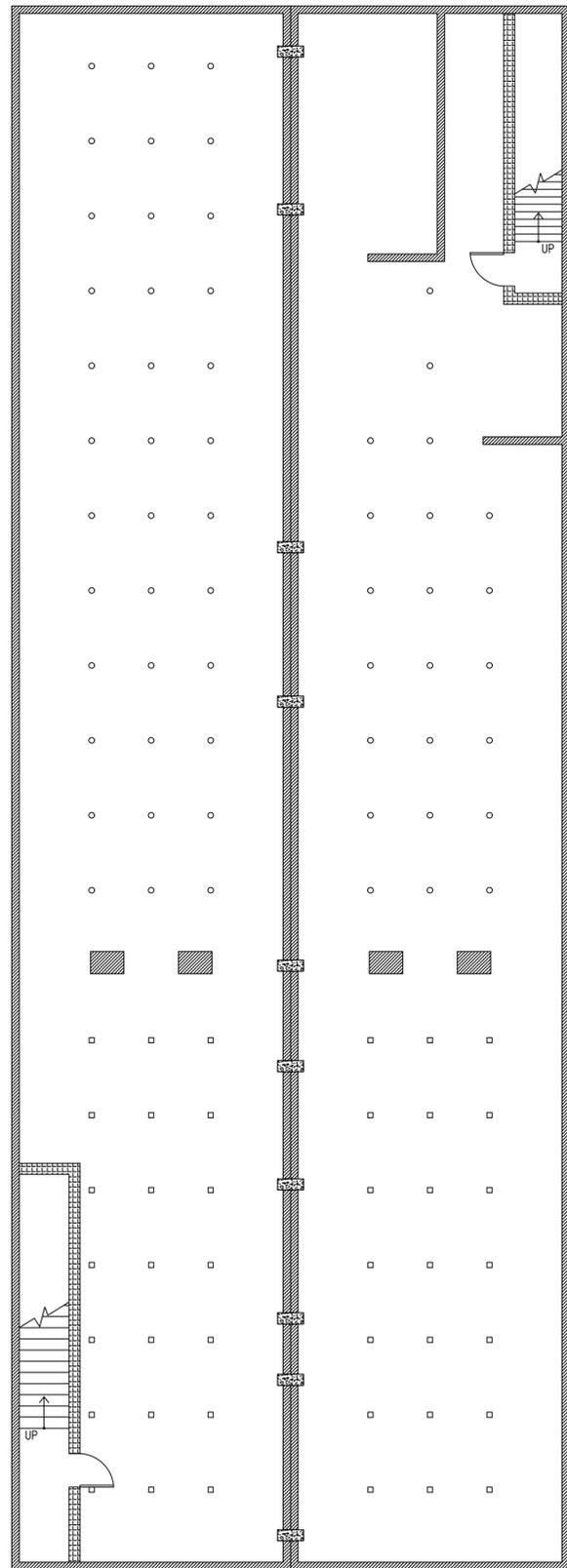
STAIR HANDRAIL EXTENSIONS
SCALE: NTS

PROJECT: CEE: 4850
DATE: 04/01/2022
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REVISION:
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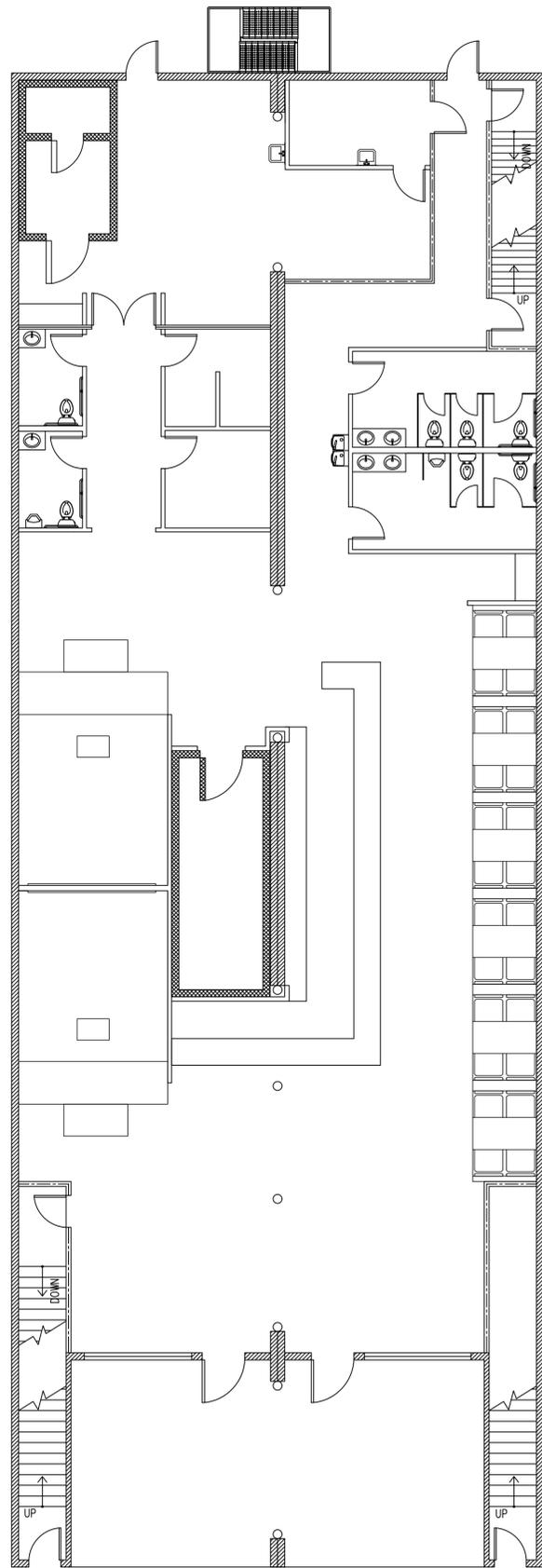
VINNY'S LOUNGE RENOVATION
224 FIFTH AVE S
CLINTON, IA 52732

SHEET NAME
ADA RQMT
DETAILS
SHEET NO.
A-101



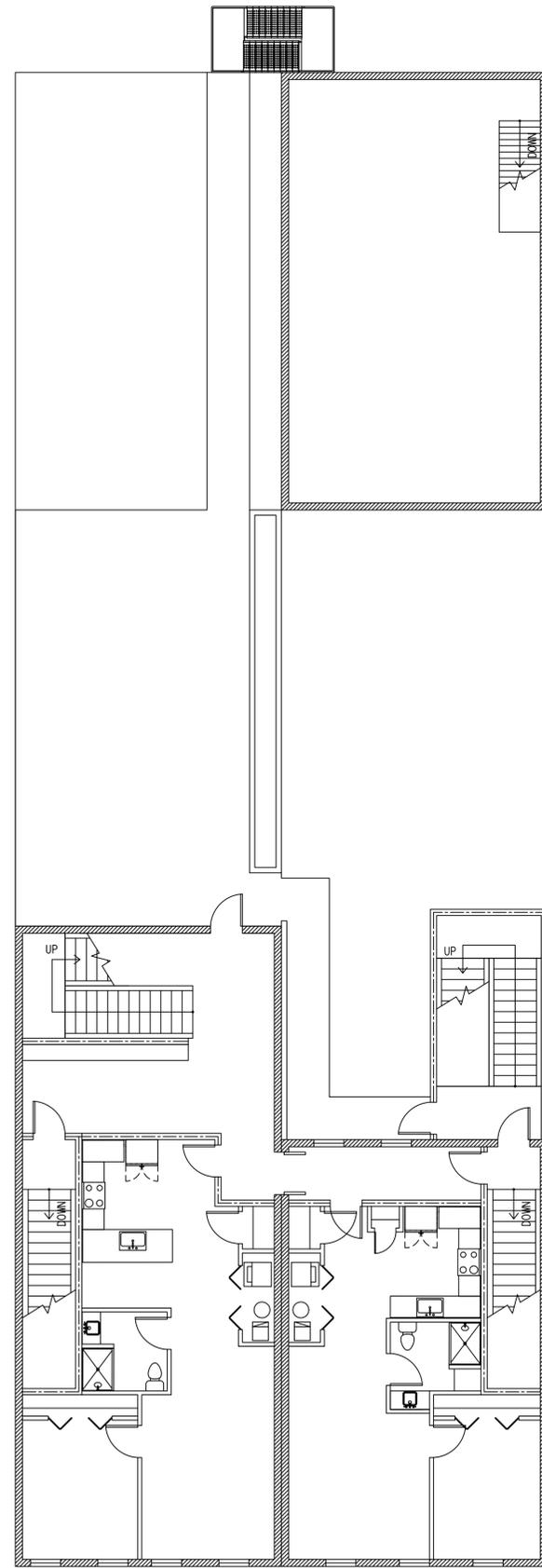
CELLAR FIRE RATING PLAN

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



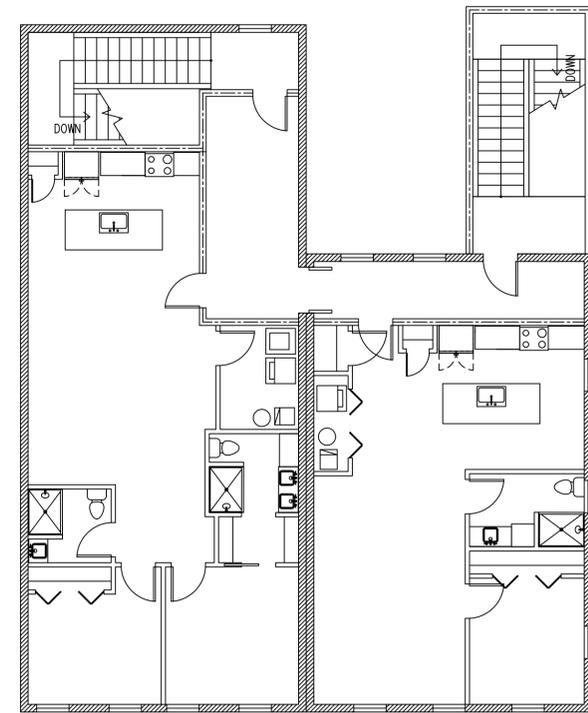
FIRST FLOOR FIRE RATING PLAN

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



SECOND FLOOR FIRE RATING PLAN

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



THIRD FLOOR FIRE RATING PLAN

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

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WALL FIRE RATING LEGEND:

- 8" WYTHE BRICK WALL (4 HOUR)
- WALK-IN REFRIGERATOR / FREEZER (VERIFY WITH MANUFACTURER)
- 12" CMU BLOCK WALL (3 HOUR)
- DOUBLE DRYWALLED 2X4 STUD 16" O.C WALL (0.75 HOUR)
- DOUBLE DRYWALLED 2X6 STUD 16" O.C WALL (1.5 HOUR)

Gypsum Wallboard Partitions / Wood Framing (Load - Bearing)				
No. Fire Rating	Ref.	Design No.	Description	SIC Test No.
SINGLE LAYER				
1	45 min.	UL	U317 1/2" (12.7mm) Fire-Shield Gypsum Wallboard nailed both sides 2 x 4 (50 mm x 89 mm) studs, 16" o.c. (406 mm)	34 NZC 2161
2	1 hr.	UL	U325 5/8" (15.9mm) Fire-Shield Gypsum Wallboard or 5/8" (15.9mm) Fire-Shield W/ Board nailed both sides 2 x 4 (50 mm x 89 mm) wood studs (15.9mm)	35 NZC 2403
DOUBLE LAYER				
3	2 hr.	UL	U301 Two layers 5/8" (15.9 mm) Fire-Shield Gypsum Wallboard nail spaced on applied to 2 x 4 (50 mm x 89 mm) wood studs 16" o.c. (406 mm). Boards may be applied horizontally or vertically with all joints staggered.	40 NZC 2363

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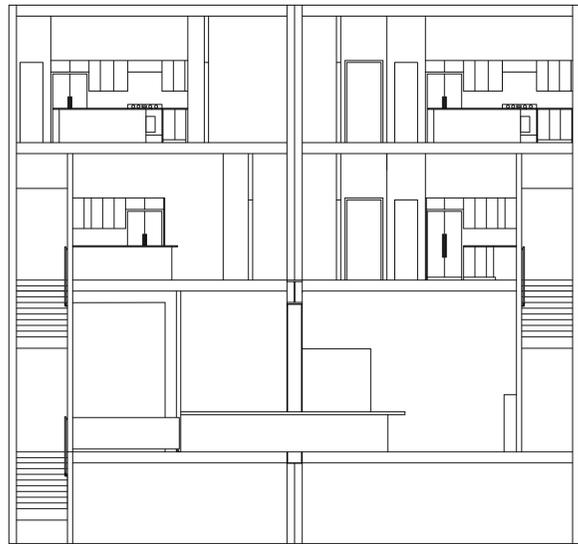


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VINNY'S LOUNGE RENOVATION
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SHEET NAME
FIRE WALL LAYOUT PLANS

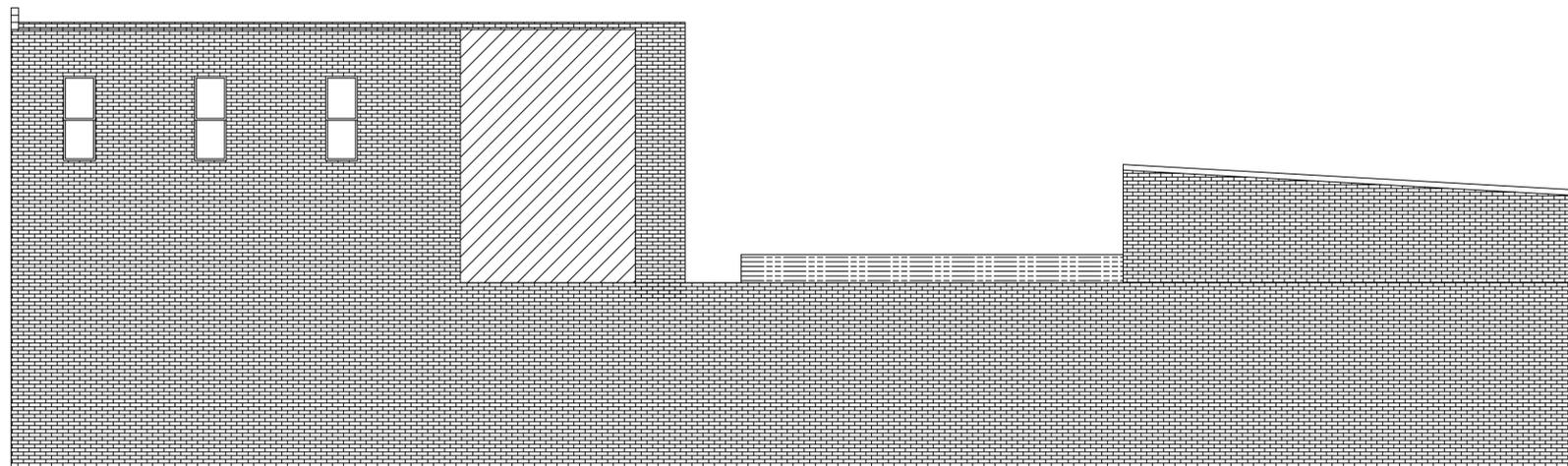
SHEET NO.
A-200



SECTION A-A
SCALE: 1/8" = 1'-0"



FRONT ELEVATION
SCALE: 1/8" = 1'-0"



SIDE ELEVATION
SCALE: 1/8" = 1'-0"

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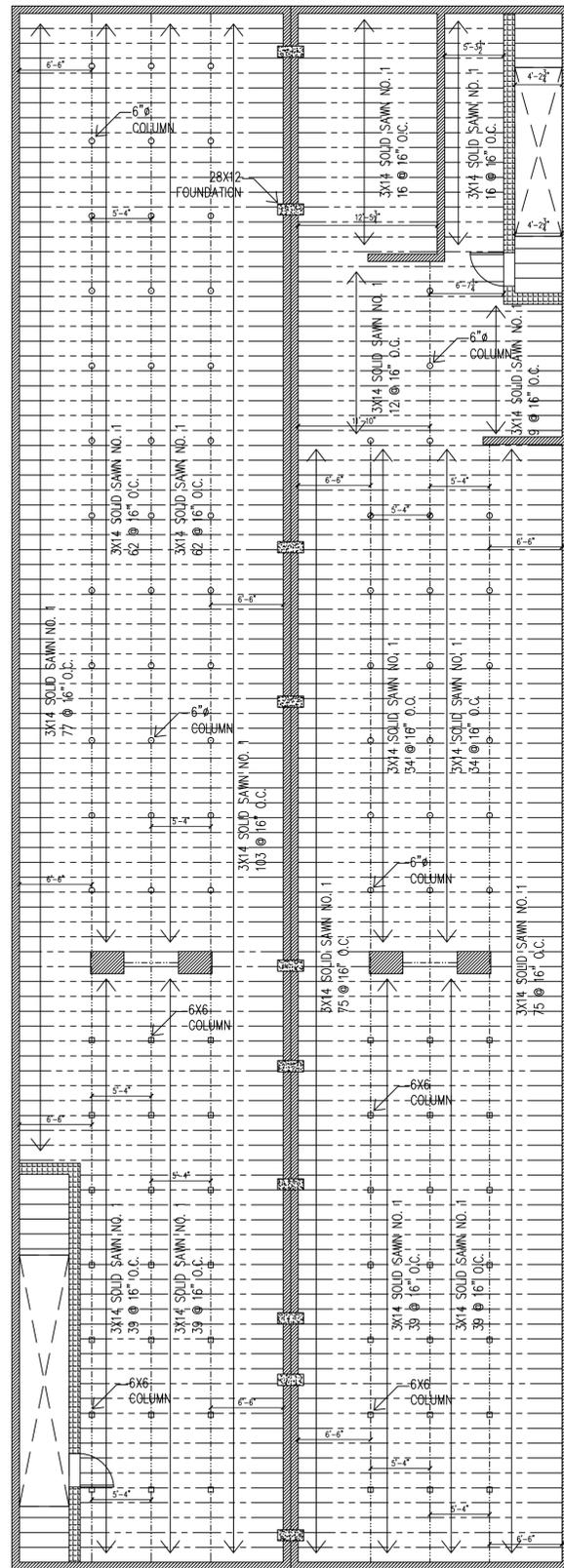
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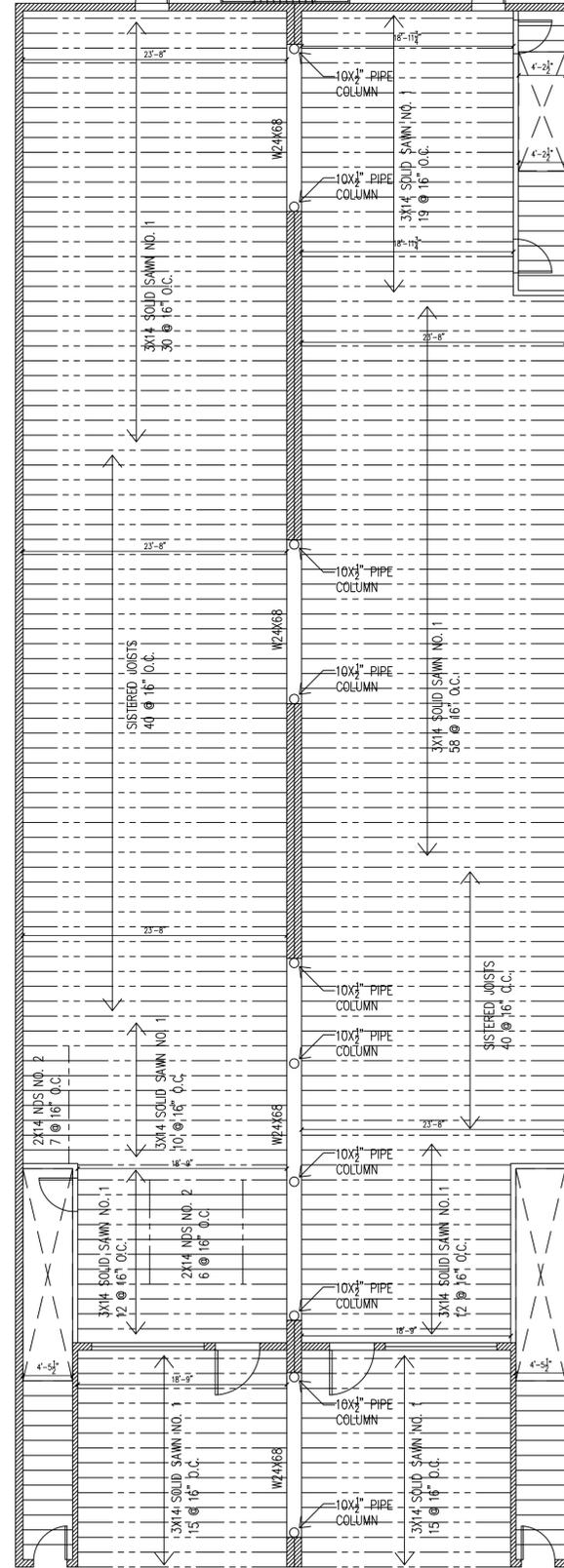
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ELEVATIONS & SECTIONS

SHEET NO.
A-300



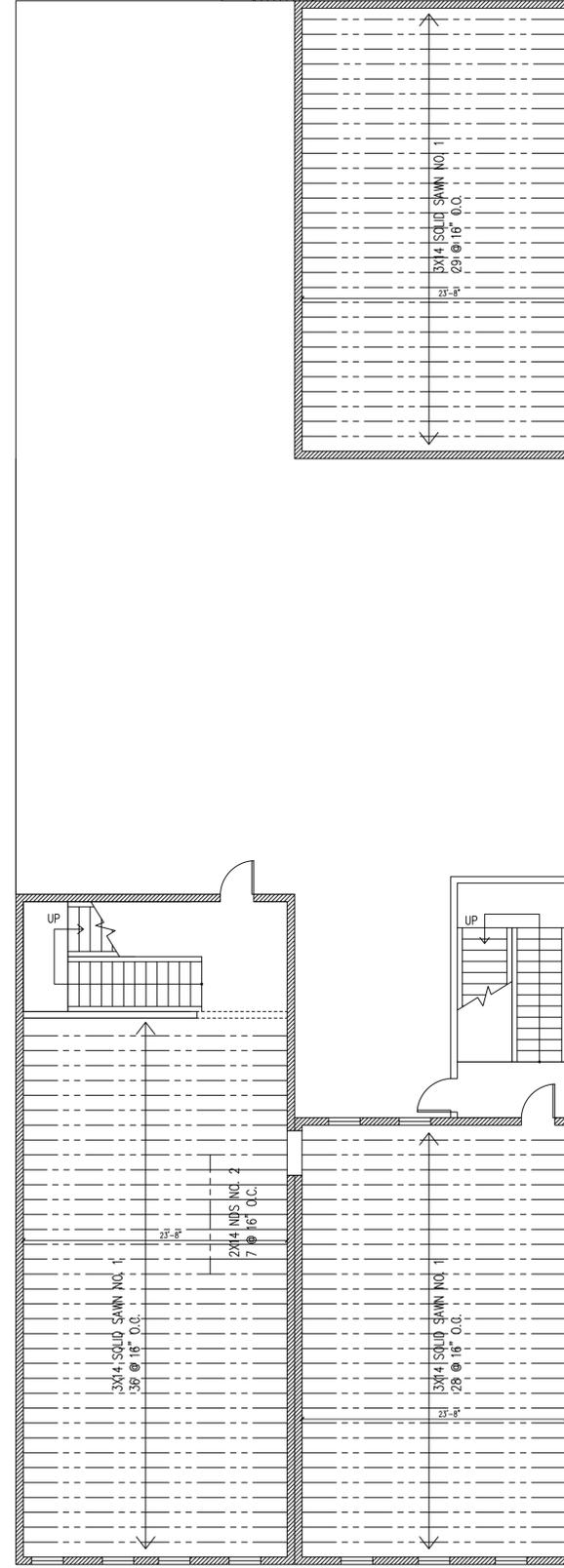
FIRST FLOOR FRAMING PLAN

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



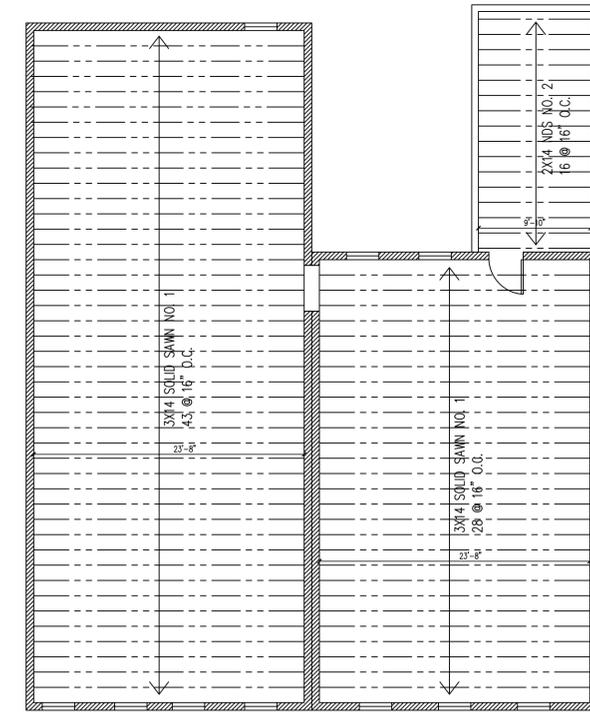
SECOND FLOOR FRAMING PLAN

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



THIRD FLOOR FRAMING PLAN

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



ROOF FRAMING PLAN

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

GENERAL NOTES:

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ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH 2018 IBC AS AMENDED BY THE CITY OF CLINTON.

WALL LEGEND:

-  8" WYTHE BRICK WALL (EXISTING)
-  WALK-IN REFRIGERATOR / FREEZER (VERIFY WITH MANUFACTURER)
-  12" CMU BLOCK WALL
-  DOUBLE DRYWALLED 2X6 STUD 16" O.C. WALL

FRAMING MEMBER LEGEND:

-  JOIST AS CALLED OUT
-  BEAM AS CALLED OUT
-  STEEL BEAM AS CALLED OUT

PROJECT:	CEE: 4850
DATE :	04/01/2022
DRAWN BY:	BRB
REVISION:	

THE UNIVERSITY OF IOWA
CIVIL AND ENVIRONMENTAL ENGINEERING
 4105 SEAMANS CENTER FOR THE
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 103 S CAPITOL ST
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VINNY'S LOUNGE RENOVATION

224 FIFTH AVE S
 CLINTON, IA 52732

SHEET NAME

STRUCTURAL FRAMING PLANS

SHEET NO.

S-100

TABLE 404.2.3.2—MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS

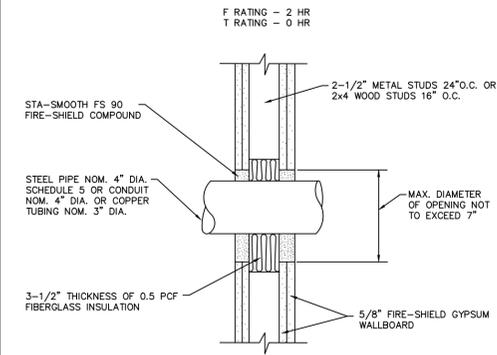
TYPE OF USE		MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS	
Approach Direction	Door Side	Perpendicular to Doorway	Parallel to Doorway (beyond latch unless noted)
From front	Pull	60 inches (1525 mm)	18 inches (455 mm)
From front	Push	48 inches (1220 mm)	0 inches (0 mm) ¹
From hinge side	Pull	60 inches (1525 mm)	36 inches (915 mm)
From hinge side	Pull	54 inches (1370 mm)	42 inches (1065 mm)
From hinge side	Push	42 inches (1065 mm) ¹	22 inches (560 mm) ^{1,4}
From latch side	Pull	48 inches (1220 mm) ¹	24 inches (610 mm)
From latch side	Push	42 inches (1065 mm) ¹	24 inches (610 mm)

¹Add 6 inches (150 mm) if closer and latch provided.
²Add 6 inches (150 mm) if closer provided.
³Add 12 inches (305 mm) beyond latch if closer and latch provided.
⁴Beyond hinge side.

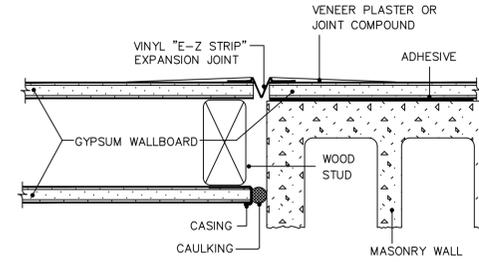
TABLE 404.2.3.3—MANEUVERING CLEARANCES AT SLIDING AND FOLDING DOORS

MINIMUM MANEUVERING CLEARANCES		
Approach Direction	Perpendicular to Doorway	Parallel to Doorway (beyond stop or latch side unless noted)
From front	48 inches (1220 mm)	0 inches (0 mm)
From nonlatch side	42 inches (1065 mm)	22 inches (560 mm) ¹
From latch side	42 inches (1065 mm)	24 inches (610 mm)

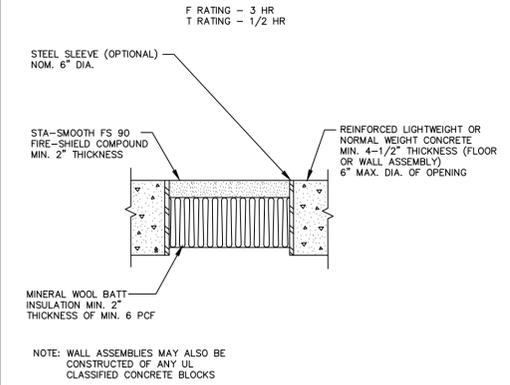
¹Beyond pocket or hinge side.



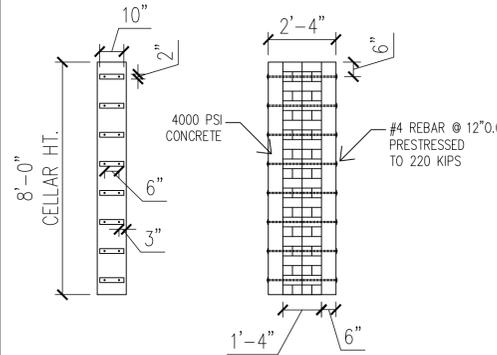
PIPE THROUGH PENETRATION
SCALE: NTS



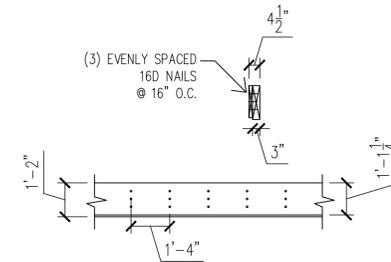
JOINT @ WALL FRAMING CHANGE
SCALE: NTS



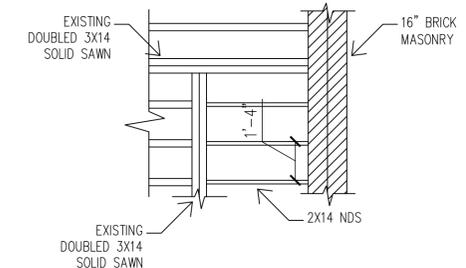
VOID FILL ASSEMBLY
SCALE: NTS



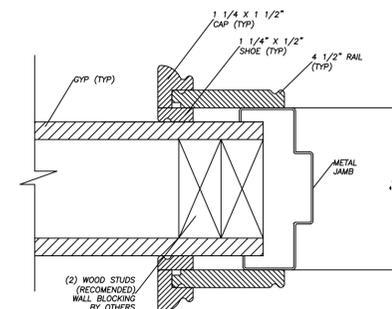
28X12 FOUNDATION DETAIL
SCALE: 1/8" = 1'-0"



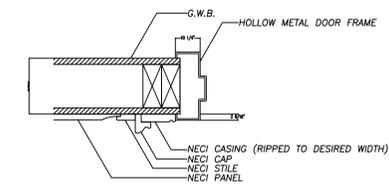
SISTERED JOIST DETAIL
SCALE: 1/8" = 1'-0"



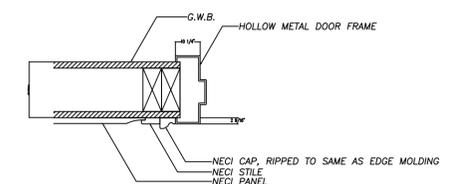
STAIRWAY FILL REPAIR DETAIL
SCALE: 1/8" = 1'-0"



METAL JAMB W/ TRADITIONAL CASING
SCALE: NTS



DETAIL A



DETAIL B

METAL DOOR FRAME DETAIL
SCALE: NTS

PROJECT: CEE: 4850
DATE: 04/01/2022
DRAWN BY: BRB
REVISION:

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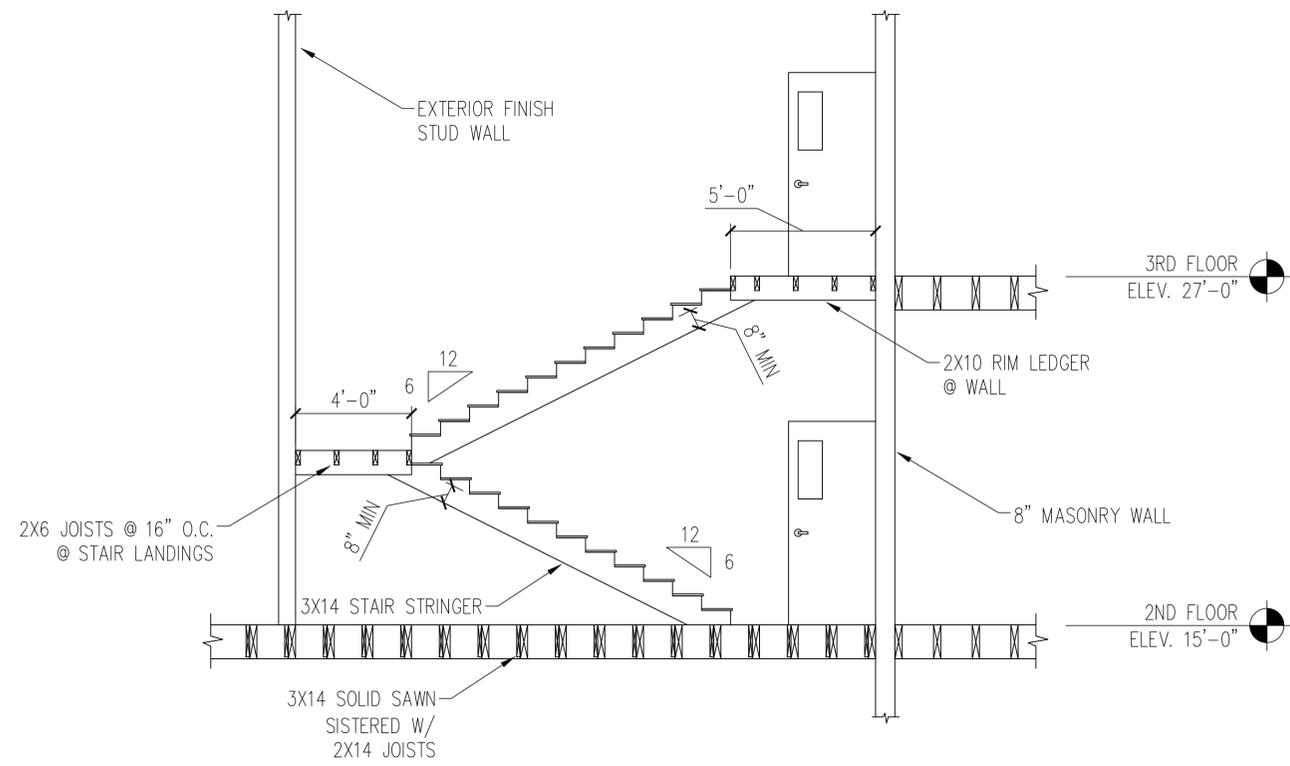
224 FIFTH AVE S
CLINTON, IA 52732

SHEET NAME

STRUCTURAL
DETAILS

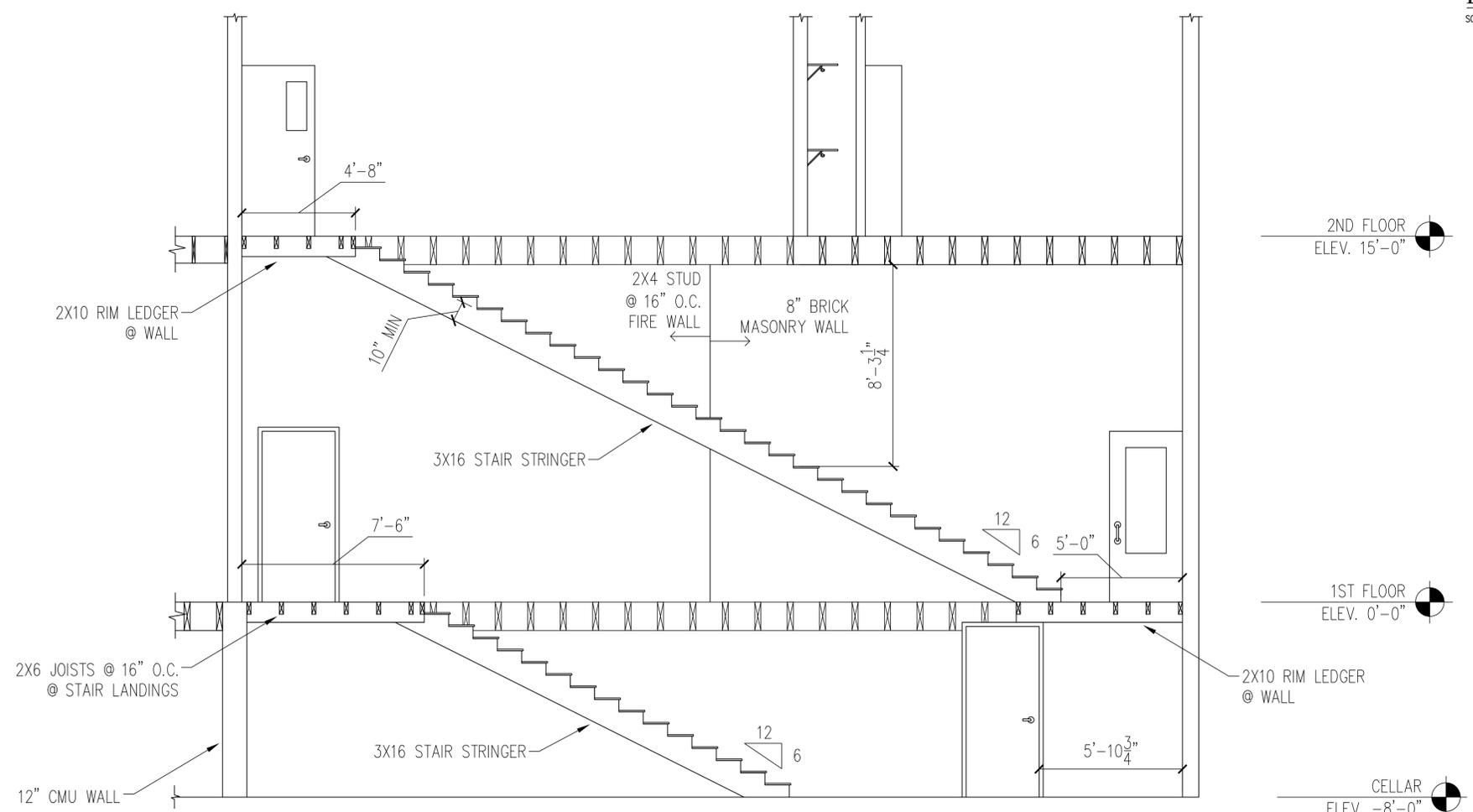
SHEET NO.

S-101



DETAILED SECOND FLOOR STAIR ELEVATION

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



DETAILED FIRST FLOOR STAIR ELEVATION

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

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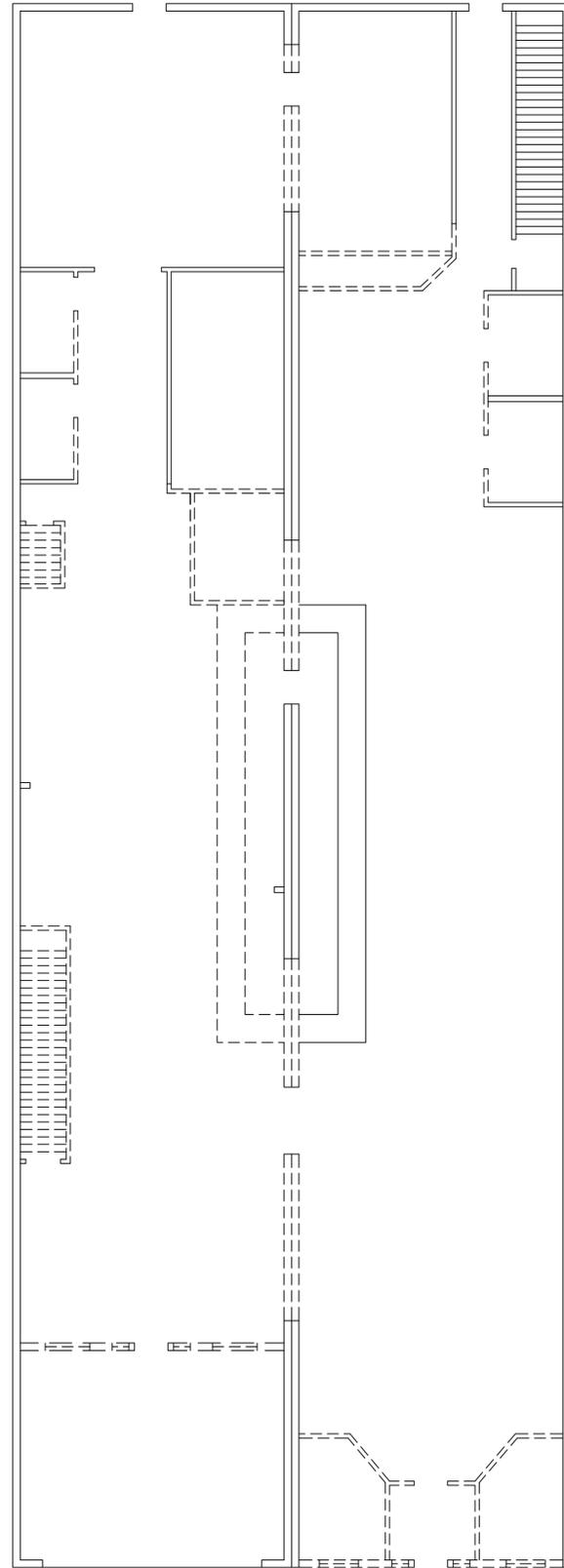
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VINNY'S LOUNGE RENOVATION

224 FIFTH AVE S
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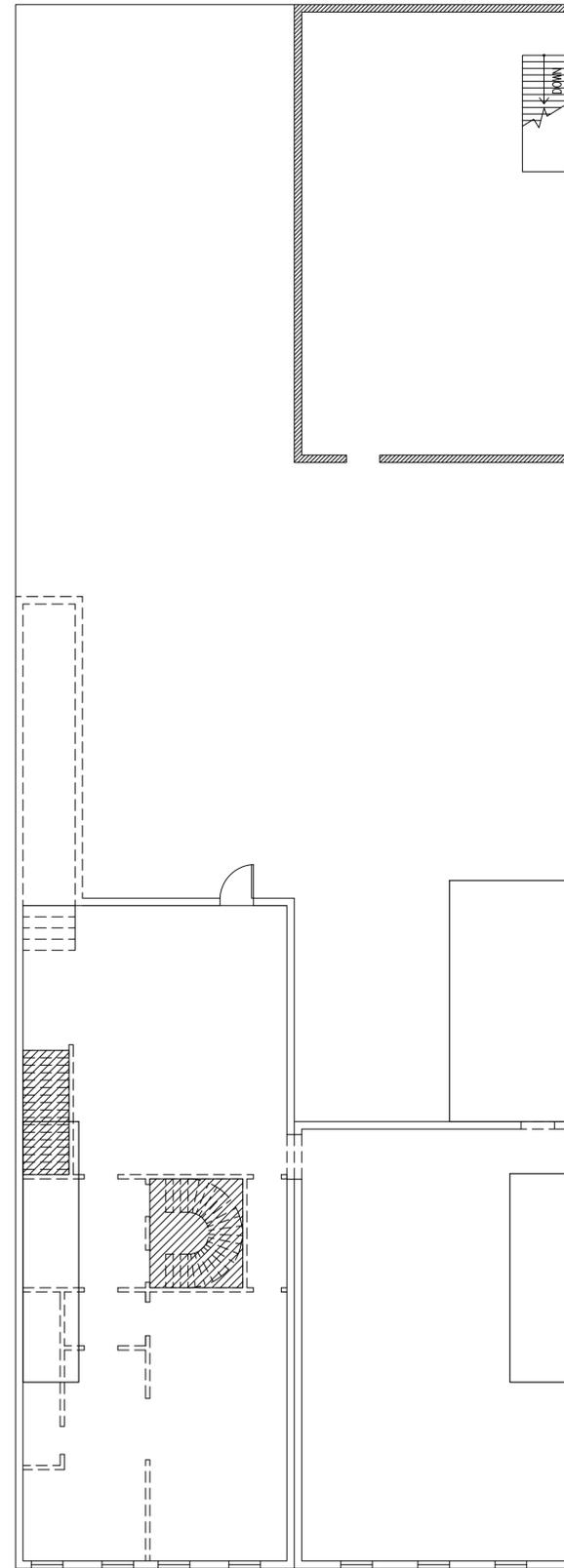
SHEET NAME
STAIR ELEVATIONS

SHEET NO.
S-200



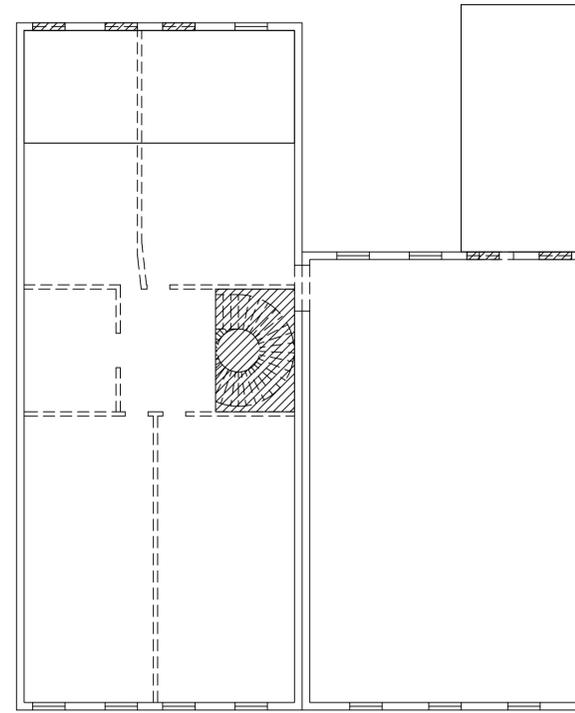
FIRST FLOOR DEMOLITION PLAN

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



SECOND FLOOR DEMOLITION PLAN

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



THIRD FLOOR DEMOLITION PLAN

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

DEMOLITION LEGEND:

- STRUCTURE TO BE REMOVED
- ▨ FLOORS AND WINDOWS TO BE FILLED IN
- FLOOR FINISHES TO BE REMOVE TO PLACE NEW STAIRS ON STRUCTURE FRAMING, NEW WINDOWS TO BE CUT INTO WALL LOCATIONS

GENERAL NOTES:

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VINNY'S LOUNGE RENOVATION

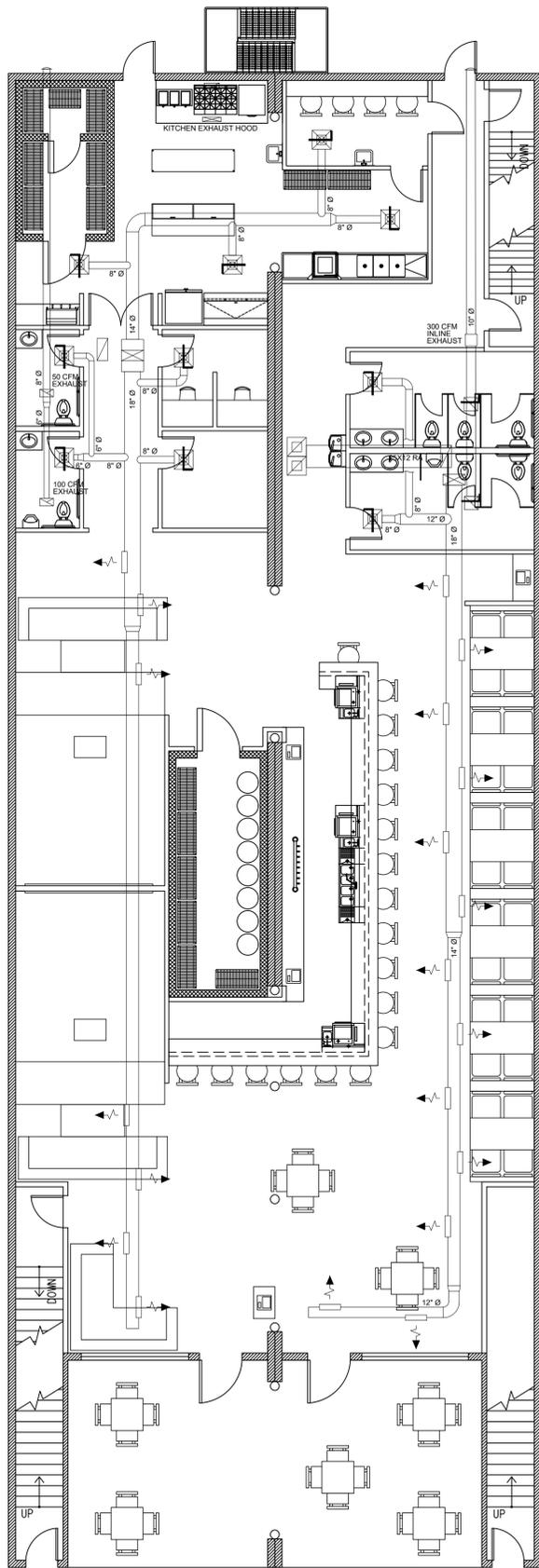
224 FIFTH AVE S
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SHEET NAME

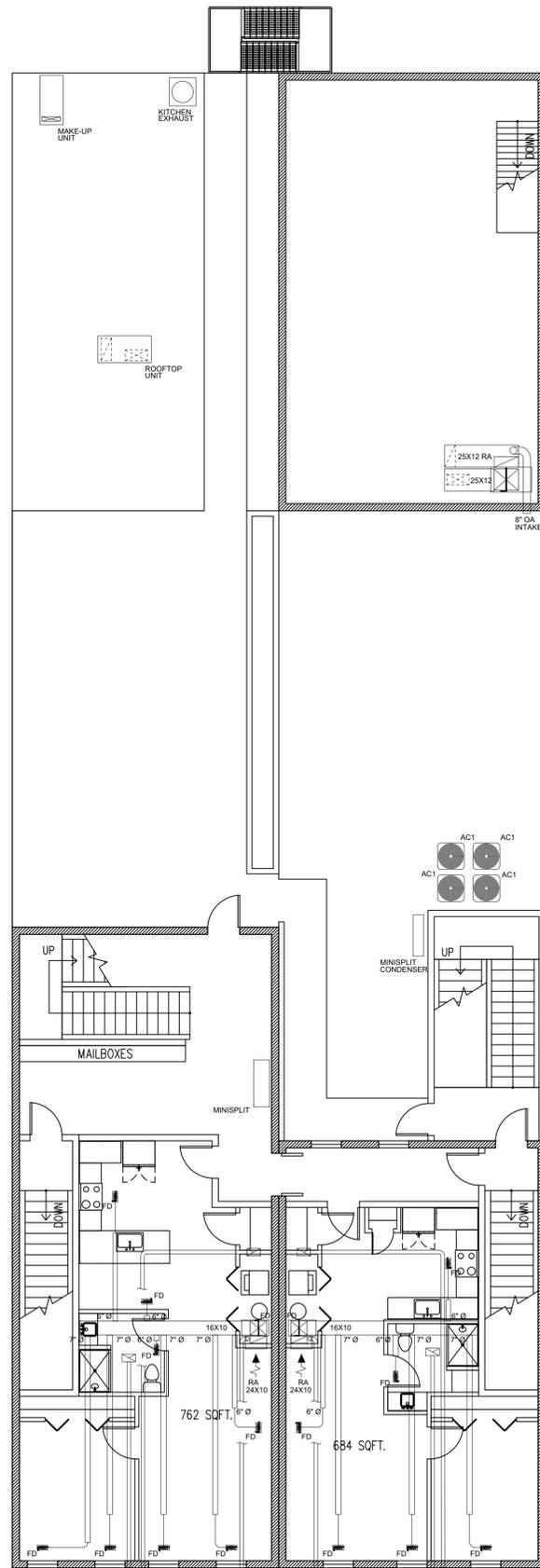
DEMOLITION LAYOUT PLANS

SHEET NO.

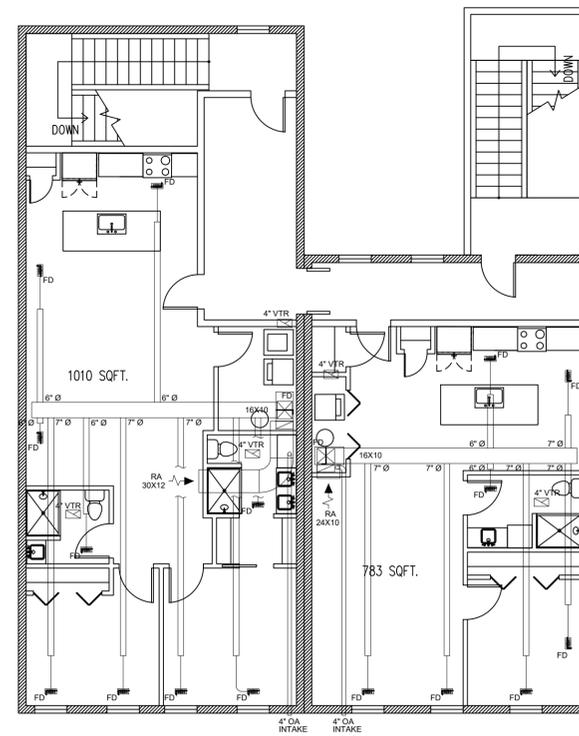
S-300



FIRST FLOOR MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



SECOND FLOOR MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



THIRD FLOOR MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

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MECHANICAL SYMBOL KEY	
SYMBOL	DESCRIPTION
	DUCT SIZE - FIRST NUMBER IS SIDE SHOWN
	BALANCE DAMPER
	FIRE DAMPER, RATED FOR WALL
	SINGLE LINE = FLEXIBLE DUCT
	DUCT TRANSITIONS
	SURFACE MOUNT GRILLE
	LINEAR SLOT DIFFUSER
	SUPPLY DIFFUSER (24" SQ. TYP.) IN ACOUSTICAL CEILING
	RETURN DIFFUSER AS SCHEDULED
	SUPPLY
	RETURN
	EXHAUST, EXHAUST FAN INTAKE
	SUPPLY OR RETURN GRILLE
	THERMOSTAT
	ROUND DUCT GRILLE MOUNT (TYP.)
	FURNACE PLAN VIEW
	AIR FLOW DIRECTION

Horizontal Duct Protection
1 2 in. WHI 604-330X1 2 1/2" (63.5mm) x 1/16" (1.5mm) or Gold Bond 1-Strut 24 cc (80mm) 1" (25.4mm) Fire-Shield Shaftliner. 3 layers 1/2"(12.7mm) Fire-Shield C-Square Walkway Base and middle layers parallel to studs. Face layer perpendicular.

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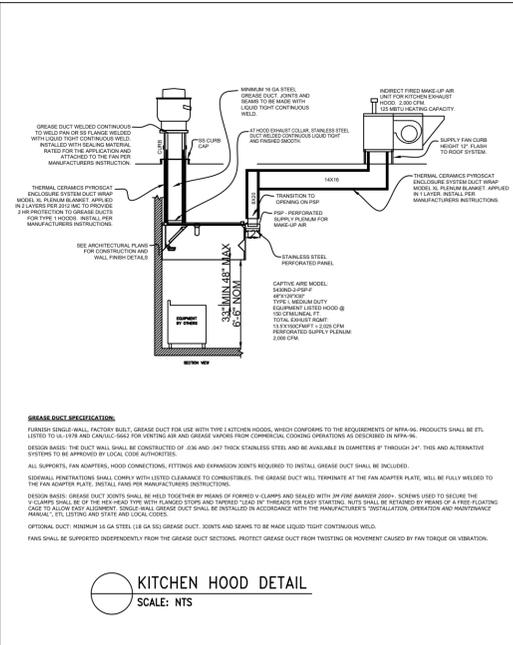
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VINNY'S LOUNGE RENOVATION

224 FIFTH AVE S
CLINTON, IA 52732

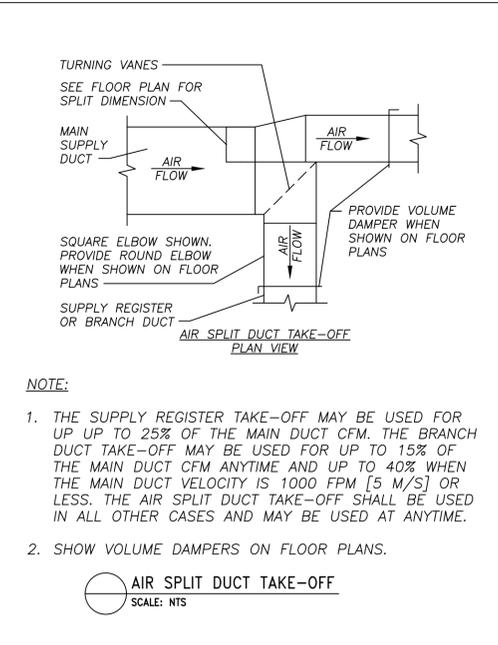
SHEET NAME
MECHANICAL PLANS

SHEET NO.
M-100



GREASE DUCT SPECIFICATION:
 FURNISH SINGLE WALL, FACTORY BUILT, GREASE DUCT FOR USE WITH TYPE I KITCHEN HOODS, WHICH CONFORMS TO THE REQUIREMENTS OF NFPA 96. PRODUCTS SHALL BE ETL LISTED TO UL 149 AND LISTED FOR VENTING AIR AND GREASE VAPORS FROM COMMERCIAL COOKING OPERATIONS AS DESCRIBED IN NFPA 96.
 DESIGN BASIS: THE DUCT SHALL BE CONSTRUCTED OF 3/16 AND .041 THICK STAINLESS STEEL AND BE AVAILABLE IN DIAMETERS OF THROUGH 24". THIS AND ALTERNATIVE SYSTEMS TO BE APPROVED BY LOCAL CODE AUTHORITIES.
 ALL SUPPORTS FOR DOWNPIPE, HOOD CONNECTIONS, FITTINGS AND EXPANSION JOINTS REQUIRED TO INSTALL GREASE DUCT SHALL BE INCLUDED.
 SIDEWALL PENETRATIONS SHALL COMPLY WITH LISTED CLEARANCE TO COMBUSTIBLES. THE GREASE DUCT WILL TERMINATE AT THE FAN ADAPTER PLATE, WILL BE FULLY WELDED TO THE FAN ADAPTER PLATE, INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
 DESIGN BASIS: GREASE DUCT JOINTS SHALL BE HELD TOGETHER BY MEANS OF FORNED-Y CLAMPS AND SEALED WITH 3M FIRE RESISTANT 2000+. SCREWS USED TO SECURE THE CLAMPS SHALL BE OF THE HEX-HEAD TYPE WITH FLANGED STOPS AND TAPERED TAIL END FOR EASY STARTING. NUTS SHALL BE INSTALLED BY MEANS OF A FREE FLOATING GAGE TO ALLOW PROPER ALIGNMENT. THROUGH WALL GREASE DUCT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION, OPERATION AND MAINTENANCE MANUAL. THE CLAMPS AND THE THROUGH WALLS.
 OPTIONAL DUCT: MINIMUM 1/4 GA STEEL (1/4 GA SS) GREASE DUCT JOINTS AND SEAMS TO BE MADE LIQUID TIGHT CONTINUOUS WELD.
 FANS SHALL BE SUPPORTED INDEPENDENTLY FROM THE GREASE DUCT SECTIONS. PROTECT GREASE DUCT FROM TWISTING OR MOVEMENT CAUSED BY FAN TORQUE OR VIBRATION.

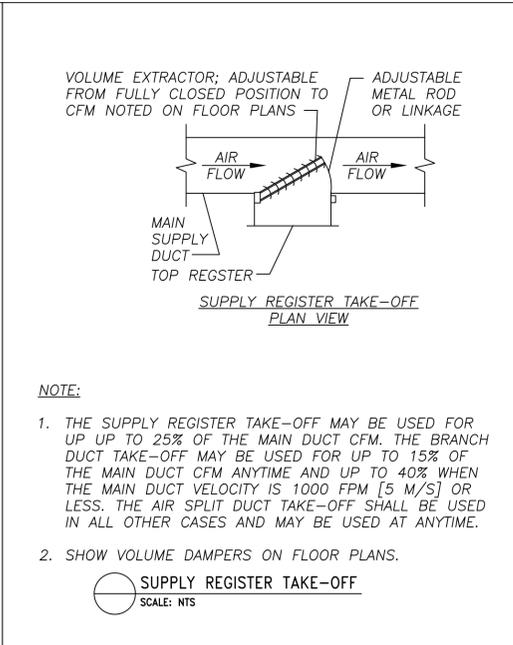
KITCHEN HOOD DETAIL
 SCALE: NTS



NOTE:

1. THE SUPPLY REGISTER TAKE-OFF MAY BE USED FOR UP TO 25% OF THE MAIN DUCT CFM. THE BRANCH DUCT TAKE-OFF MAY BE USED FOR UP TO 15% OF THE MAIN DUCT CFM ANYTIME AND UP TO 40% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM [5 M/S] OR LESS. THE AIR SPLIT DUCT TAKE-OFF SHALL BE USED IN ALL OTHER CASES AND MAY BE USED AT ANYTIME.
2. SHOW VOLUME DAMPERS ON FLOOR PLANS.

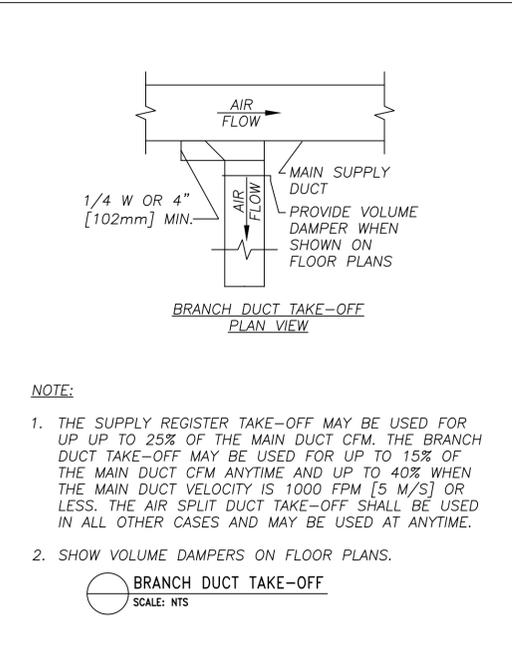
AIR SPLIT DUCT TAKE-OFF
 SCALE: NTS



NOTE:

1. THE SUPPLY REGISTER TAKE-OFF MAY BE USED FOR UP TO 25% OF THE MAIN DUCT CFM. THE BRANCH DUCT TAKE-OFF MAY BE USED FOR UP TO 15% OF THE MAIN DUCT CFM ANYTIME AND UP TO 40% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM [5 M/S] OR LESS. THE AIR SPLIT DUCT TAKE-OFF SHALL BE USED IN ALL OTHER CASES AND MAY BE USED AT ANYTIME.
2. SHOW VOLUME DAMPERS ON FLOOR PLANS.

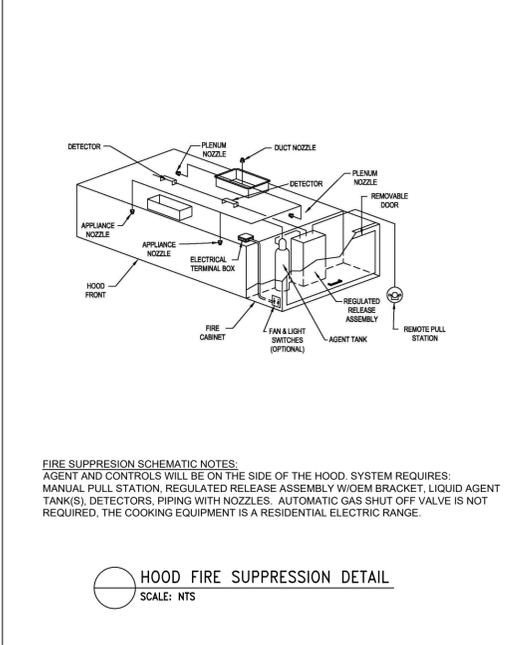
SUPPLY REGISTER TAKE-OFF
 SCALE: NTS



NOTE:

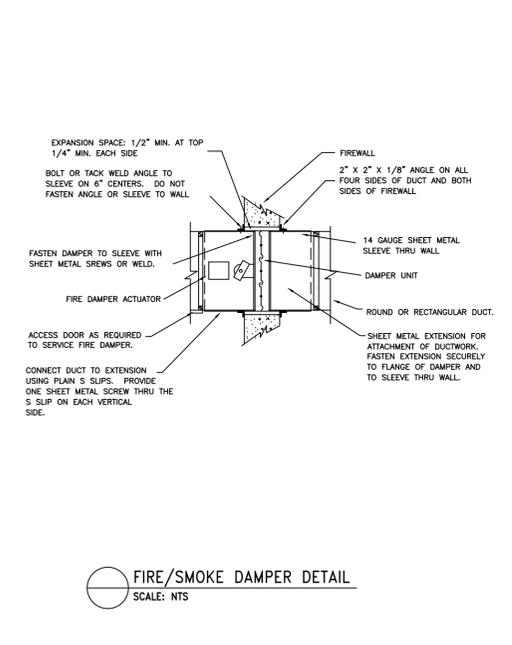
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2. SHOW VOLUME DAMPERS ON FLOOR PLANS.

BRANCH DUCT TAKE-OFF
 SCALE: NTS



FIRE SUPPRESSION SCHEMATIC NOTES:
 AGENT AND CONTROLS WILL BE ON THE SIDE OF THE HOOD. SYSTEM REQUIRES: MANUAL PULL STATION, REGULATED RELEASE ASSEMBLY W/ OEM BRACKET, LIQUID AGENT TANK(S), DETECTORS, PIPING WITH NOZZLES. AUTOMATIC GAS SHUT OFF VALVE IS NOT REQUIRED. THE COOKING EQUIPMENT IS A RESIDENTIAL ELECTRIC RANGE.

HOOD FIRE SUPPRESSION DETAIL
 SCALE: NTS



FIRE/SMOKE DAMPER DETAIL
 SCALE: NTS

Occupancy	Occupiable Sq. Ft.	Occupants per 1,000 Sq. Ft.	CFM Rqd per Occupant	CFM Rqd per Sq. Ft.	Per Sq Ft		Total Exhaust Rqd	Total Exhaust Rqd	Notes	
					Exhaust CFM Rqd	Total OA Rqd				
Restaurant	947	70	8	0.18			668			
Bar	749	100	8	0.18			697			
Golf Sim	567	20	8	0.18			193			
Kitchen	709	20	8	0.12	0.7		191	496		
Breakroom	106	15	5	0.06			14			
Mechanical	91	-	-	0.06			5			
Hallway	438	-	-	0.06			26			
Office	91	5	5	0.06			8			
Storage	939	-	-	0.12			113			
Bathroom	434	Continuous while restaurant is occupied, min. total both Mens and Womens							450	
Total							1,915	946		

OUTSIDE AIR CALCULATIONS

PROJECT: CEE-4850
 DATE: 04/01/2022
 DRAWN BY: BRB
 REVISION:

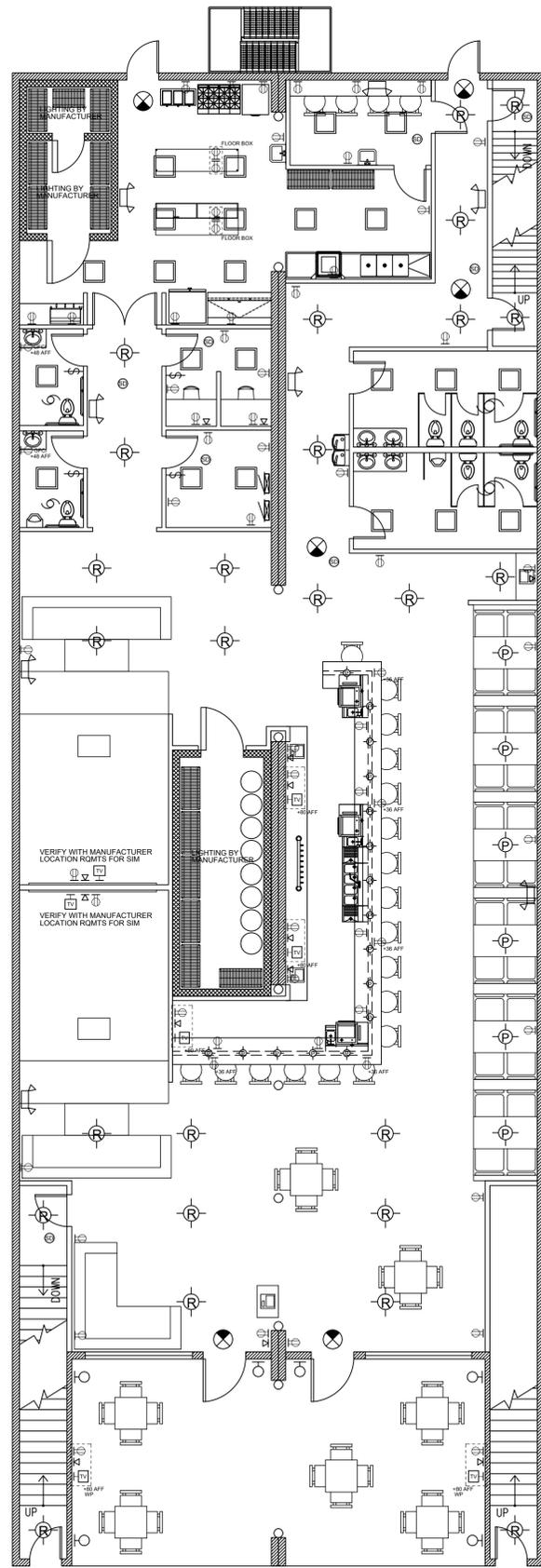
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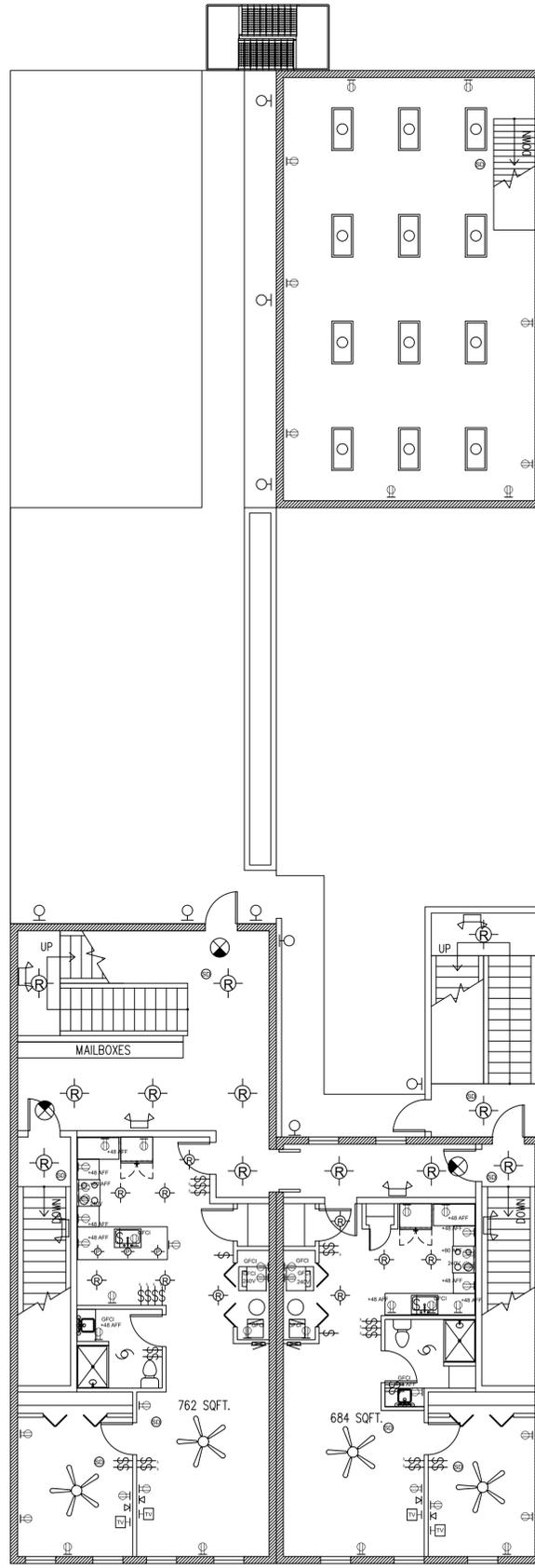
VINNY'S LOUNGE RENOVATION
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SHEET NAME
 MECHANICAL DETAILS

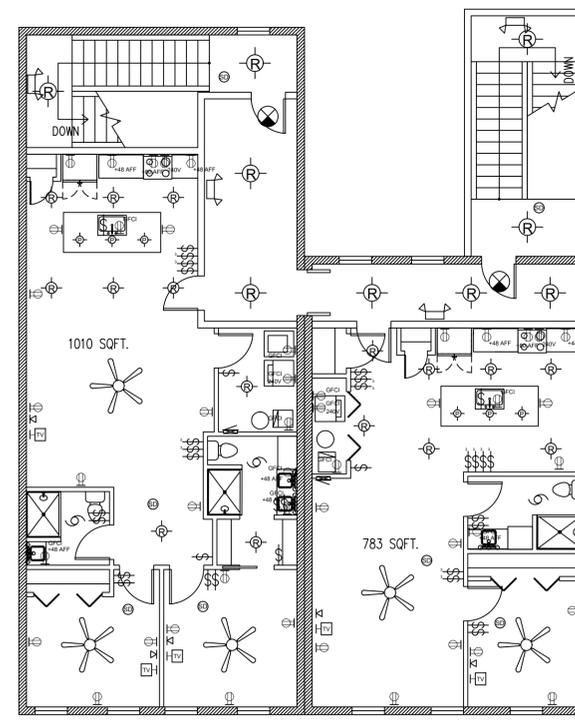
SHEET NO.
M-101



FIRST FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



SECOND FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



THIRD FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

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ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH 2017 NEC, 2018 IBC AS AMENDED BY THE CITY OF CLINTON.

- NOTES:
EXISTING PANEL TO BE USED. REUSE EXISTING CIRCUITS AS PRACTICABLE. GFCI AT ALL STATIONS. ALL WORK TO CONFORM WITH 2017 NEC.
LIGHTING & RECEPTACLES TO BE FIELD VERIFIED.
- SYMBOL KEY
- DUPLEX RECEPTACLE: GFCI, TAMPER RESISTANT, ARC FAULT CIRCUIT INTERRUPTER, WEATHER PROOF, OR AS INDICATED OR AS REQUIRED BY THE 2014 NEC.
 - 208/240V, SINGLE PHASE RECEPTACLE, VERIFY NEMA TYPE.
 - DUPLEX RECEPTACLE WITH TAB REMOVED (ONE PLUG SWITCHED TYPICAL SUCH AS FOR GARBAGE DISPOSER)
 - PHONE, CABLE, TV, DATA, OR OTHER LOW VOLTAGE BOX
 - BATTERY BACKUP EMERGENCY LIGHTED EXIT SIGN
 - BATTERY BACKUP EMERGENCY EGRESS LIGHT
 - COMBINATION EXIT / EMERGENCY LIGHT SEPARATE UNIT OPTIONAL
 - SWITCH
 - 3-WAY SWITCH
 - DIMMER SWITCH
 - TIMER SWITCH (SEE MECHANICAL PLAN)
 - SMOKE DETECTOR
 - WALL MOUNT LIGHT FIXTURE
 - PENDANT MOUNT LIGHT FIXTURE
 - RECESSED LIGHT FIXTURE
 - BATH EXHAUST FANLIGHT
 - CEILING FANLIGHT
 - TROFFER STYLE LIGHT
 - 2X2 LED LIGHT
 - ABOVE VANITY LIGHTING (TBD)
 - ELECTRICAL PANEL
 - EQUIPMENT CONNECTION AS NOTED

PROJECT:	CEE: 4850
DATE :	04/01/2022
DRAWN BY:	BRB
REVISION:	

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CIVIL & ENVIRONMENTAL
ENGINEERING

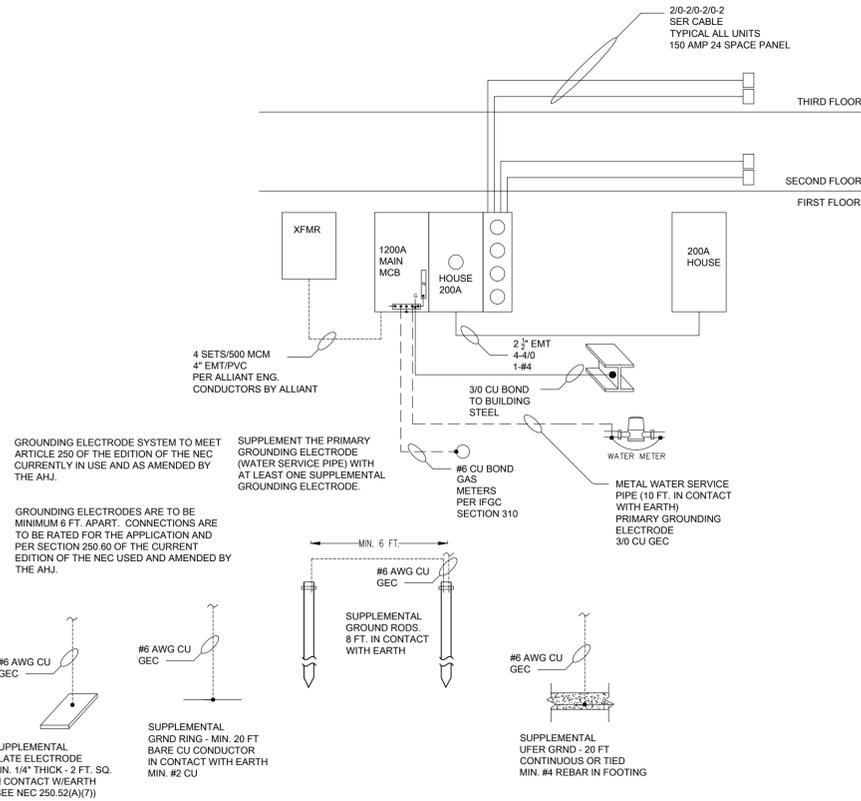
EDUCATIONAL - NOT FOR CONSTRUCTION

VINNY'S LOUNGE RENOVATION

224 FIFTH AVE S
CLINTON, IA 52732

SHEET NAME
ELECTRICAL PLANS

SHEET NO.
E-100



ONE LINE DIAGRAM

SCALE: NTS

Individual Unit Service Size Calculations			
Sq. Ft.	largest Sq. Ft. Unit used.		
1010	at 3 VA/sq.ft.	3,030	VA
Two 20-A small-appliance circuits at 1500 VA each		3,000	VA
Range		8,000	VA
Clothes Dryer		5,000	VA
Laundry Circuit		1,500	VA
Water heater		4,500	VA
Dishwasher		1,200	VA
Disposer		900	VA
Microwave		1,200	VA
Total general load		28,330	VA
First 10 kVA at 100%		10,000	VA
Remainder at 40%		7,332	VA
Subtotal general load		17,332	VA
Condensing Unit		3,500	VA
Totals			
General Load		17,332	VA
Condensing Unit		3,500	VA
Total		20,832	VA
20,832 /208V			100 Amp
		Calculated Load for Unit Feeders.	
		150A Rqd. per 34.41 CR	
		amended Electrical Code	

House Panel			
Corridors & Common Areas/Exterior Area Lights & Recepts	3,600	VA	
Walk-in Coolers	5,544	VA	
Kitchen Hood MAU & Exhaust	2,928	VA	
Food Stations	6,444	VA	
Dishwasher	1,125	VA	
Icemaker	1,524	VA	
Drink Stations	2,484	VA	
POS & Printer	1,188	VA	
Furnaces	1,992	VA	
Condensers	7,000	VA	
Water Heater	180	VA	
Water Softner	575	VA	
Fire Control Panel	180	VA	
Sump Pump	800	VA	
Total House Panel	35,564	VA	
35,564 /208V 3Ø			99 Amp
		200 Amp proposed.	

Building Service Size Calculations										
Sq. Ft.										
1010	at 3 VA/sq.ft.	3,030	VA	X	4	12,120	VA			
Two 20-A small-appliance circuits at 1500 VA each		3,000	VA	X	4	12,000	VA			
Clothes Dryer		5,000	VA	X	4	20,000	VA			
Laundry Circuit		1,500	VA	X	4	6,000	VA			
Range		8,000	VA	X	4	32,000	VA			
Water heater		4,500	VA	X	4	18,000	VA			
Dishwasher		1,200	VA	X	4	4,800	VA			
Disposer		900	VA	X	4	3,600	VA			
Microwave		1,200	VA	X	4	4,800	VA			
Condensing Unit		3,500	VA	X	4	14,000	VA			
Total Units Load		31,830	VA			127,320	VA			
Table 220.84 percent demand factor						127,320	35 %			44,562
Add in House Panel										35,564
										80,126
Total service to Building For Living Units inc. House Panel		80,126	/208V 3Ø							223 A
Total for Building										223 A
										1200A proposed.

IOWA CIVIL & ENVIRONMENTAL ENGINEERING		HAWKEYE DESIGN GROUP																			
		ELECTRICAL PANEL DESIGN																		PANEL RATING:	
		LOCATION: IN UNIT																		120/208V., 1PH, 3W	
		150A MAIN LUG																		MOUNTING: FLUSH	
		PANEL & DEVICE MIN A.I.C. RATING: 10kAIC																			
		BUS RATING:																			
		VOLTAMPS																			
		LOCATION																			
		NOTES																			
NOTES	LOCATION	ØA	ØB	LTG	REC	MIS	CR	BKR	POLE	A	B	POLE	BKR	CR	MIS	REC	LTG	ØA	ØB	LOCATION	NOTES
AFCI	Bedroom	721		721			1	20	1			1	20	2	721			721		Bedroom	AFCI
AFCI	LIGHTING		721				3	20	1			1	20	4	904				904	Living Room	AFCI
AFCI	RECEPTACLE - 20A REFRIG	996			996		5	20	1			1	20	6	1440			1440		RECEPTACLES	AFCI
AFCI	RECEPTACLES - 20A		1500			1500	7	20	1			1	20	8	1440			1440		RECEPTACLES	AFCI
AFCI	RECEPTACLES - 20A	1500				1500	9	20	1			1	20	10	900				900	Disposer	
	Laundry		1500			1500	11	20	1			1	20	12	1200				1200	Microwave	
	Electric Range	4000				4000	13	40	2			1	20	14	1200				1200	Dishwasher	
	"		4000			4000	15	"	"			2	30	16	2250				2250	WATER HEATER	
	FURNACE	996				996	17	15	1			"	"	18	2250				2250	"	
	Dryer		2500			2500	19	40	2			2	40	20	1750				1750	CONDENSING UNIT (VERIFY)	
	"	2500				2500	21	"	"			"	"	22	1750				1750	"	
	SPACE						23							24						SPACE	
VA SUBTOTALS:		10713	10221												8261				7544		
VA TOTALS:		ØA:	18974	ØB:	15805																
TOTAL CONNECTED VA =		36739 VA																			
LTG LOAD =		721 VA																			
MIS LOAD =		25296 VA																			
REC LOAD =		10722 VA																			
TOTAL PANEL CONNECTED =		36739 VA																			
CONNECTED LOAD =		177 A																			
		Connected load does not reflect required Feeder size, see feeder size calculations.																			
		This panel is for design purposes/sizing only and does not represent all units.																			
		Finished panel will be circuited differently and may have more/less spaces than this shown.																			
		AFCI - Arc Fault Circuit Interrupter per NEC																			
		GFCI - Ground Fault Circuit Interrupter per NEC																			
		TR - Tamper Resistant per NEC																			

IOWA CIVIL & ENVIRONMENTAL ENGINEERING		HAWKEYE DESIGN GROUP																						
		ELECTRICAL SPECIFICATIONS																		PANEL RATING:				
		LOCATION: Storage Room																		120/208V., 3PH., 4W				
		MAIN: MCB																		MOUNTING: Surface, NEMA Type 2 or 4				
		1000A AIC																						
		BUS RATING: 200A																						
		VOLTAMPS																						
		LOCATION																						
		NOTES																						
NOTES	LOCATION	ØA	ØB	ØC	LTG	REC	MIS	CR	BKR	POLE	A	B	C	POLE	BKR	CR	MIS	REC	LTG	ØA	ØB	ØC	LOCATION	NOTES
	Lighting	600			600				1	20	1			1	20	2			540	540			General Purpose Receptacles	
	Lighting		600		600				3	20	1			1	20	4			540		540		General Purpose Receptacles	
	Lighting			600	600				5	20	1			1	20	6			540			540	General Purpose Receptacles	
	Outdoor Signage	180						180	7	20	1			1	20	8			996		996		Furnace	
	Walk-in Cooler		924					924	9	20	3			1	20	10			996			996	Furnace	
	"			924				924	11	"	"			2	40	12			1750			1750	Condenser	
	"	924						924	13	"	"			"	14	1750				1750			"	
	Walk-in Cooler		924					924	15	20	3			2	40	16			1750			1750	Condenser	
	"			924				924	17	"	"			"	18	1750				1750			"	
	"	924						924	19	"	"			1	20	20			1080	1080			POS (3)	
	Dishwasher		1125					1125	21	20	1			1	20	22			180		180		Kitchen Printer	
	Icemaker			1524				1524	23	20	1			1	20	24			180		180		Water Heater	
	Cold Food Station	936						936	25	20	1			1	20	26			575		575		Water Softner	
	Display Warmer		1170					1170	27	20	2			1	20	28			828		828		Drink Refrigerator	
	"			1170				1170	29	"	"			1	20	30			828		828		Drink Refrigerator	
	Display Warmer	1170						1170	31	20	2			1	20	32			1464	1464			Hood Exhaust Fan	
	"		1170					1170	33	"	"			1	20	34			1464	1464			MAU Fan	
	Drink Station			828				828	35	20	1					36							SPACE	
	SPACE								37							38							SPACE	
	SPACE								39							40							SPACE	
	SPACE								41							42							SPACE	
VA SUBTOTALS:		4734	5913	5970															6405	5758	5048			
VA TOTALS:		ØA:	11139	ØB:	11671	ØC:	11018																	
TOTAL CONNECTED VA =		33828 VA																						
LTG LOAD =		1800 VA																						
MIS LOAD =		29148 VA																						
REC LOAD =		2880 VA																						
TOTAL PANEL LOAD =		33828 VA																						
FEEDER AMPS =		94 Amps																						
		This panel likely will not reflect future installed conditions, it is a design estimate. Some equipment may be combined.																						
		Connected Load less than Panel rating, service size calculations not required.																						

GENERAL NOTES:

CONTRACTORS SHALL PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, AND TESTING AS REQUIRED FOR THE COMPLETE AND OPERABLE INSTALLATION OF ELECTRICAL SYSTEMS AND RELATED WORK. THE CONTRACTORS SHALL OBTAIN AND PAY ALL FEES, PERMITS, AND LICENSES REQUIRED FOR HIS WORK.

THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND WITH ANY CONDITIONS WHICH MIGHT PRESENT UNUSUAL ASPECTS TO THE WORK INVOLVED. VERIFY EXISTING CONDITIONS, EQUIPMENT AND DIMENSIONS PRIOR TO BIDDING OR CONSTRUCTION, INCLUDING PIPE AND VENT ROUTING, POTENTIAL OBSTACLES, ETC.

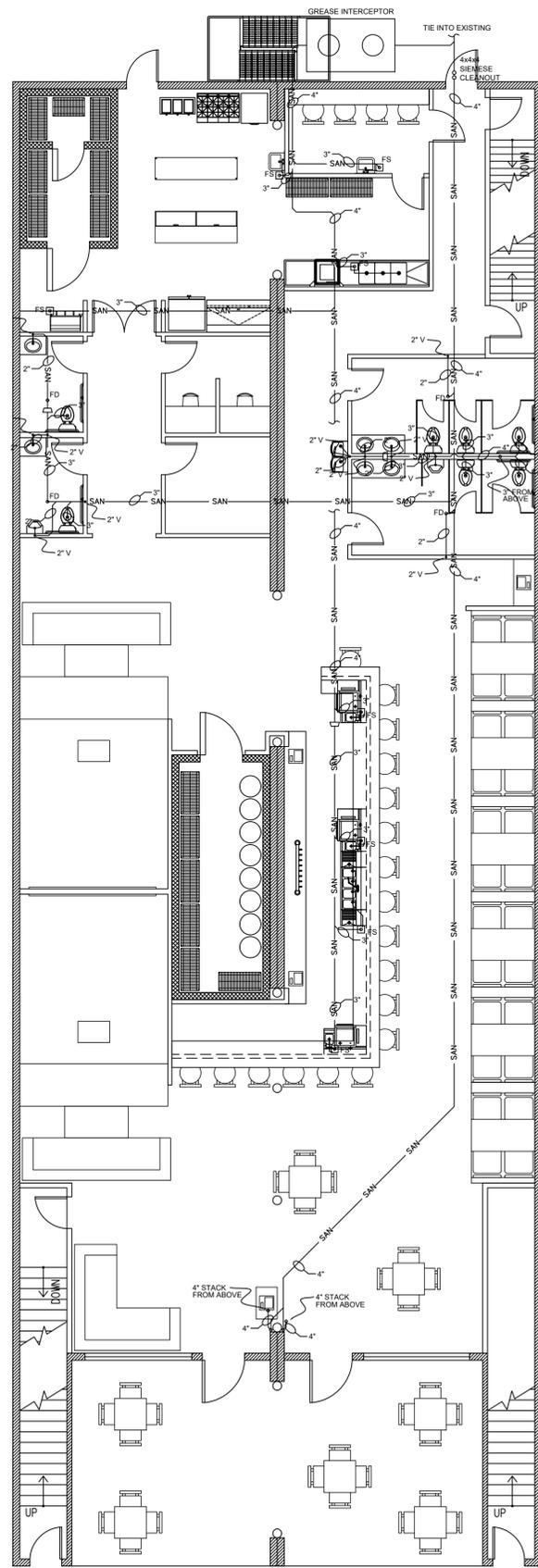
ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH 2017 NEC, 2018 IBC AS AMENDED BY THE CITY OF CLINTON.

THE UNIVERSITY OF IOWA

CIVIL AND ENVIRONMENTAL ENGINEERING

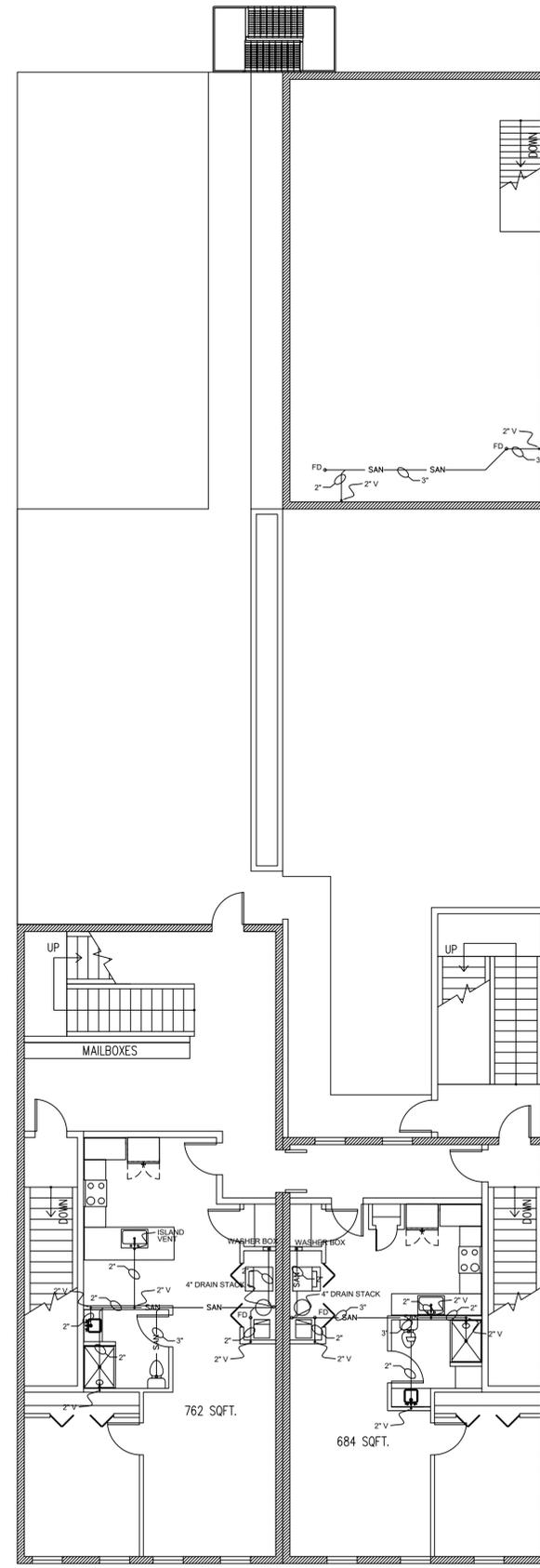
4105 SEAMANS CENTER FOR THE ENGINEERING ARTS AND SCIENCES

103 S CAPITOL ST IOWA CITY, IOWA 522



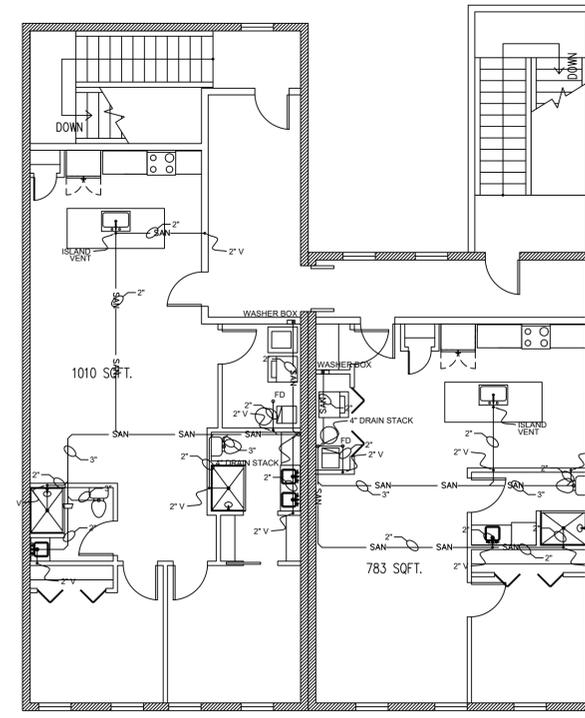
FIRST FLOOR SANITARY PLUMBING PLAN

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



SECOND FLOOR SANITARY PLUMBING PLAN

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



THIRD FLOOR SANITARY PLUMBING PLAN

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

GENERAL NOTES:

CONTRACTORS SHALL PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, AND TESTING AS REQUIRED FOR THE COMPLETE AND OPERABLE INSTALLATION OF PLUMBING SYSTEMS AND RELATED WORK. THE CONTRACTORS SHALL OBTAIN AND PAY ALL FEES, PERMITS, AND LICENSES REQUIRED FOR HIS WORK.

THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND WITH ANY CONDITIONS WHICH MIGHT PRESENT UNUSUAL ASPECTS TO THE WORK INVOLVED. VERIFY EXISTING CONDITIONS, EQUIPMENT AND DIMENSIONS PRIOR TO BIDDING OR CONSTRUCTION, INCLUDING PIPE AND VENT ROUTING, POTENTIAL OBSTACLES, ETC.

ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH 2018 UPC, 2018 IBC AS AMENDED BY THE CITY OF CLINTON.

SYMBOL KEY	
— SAN —	UNDERFLOOR SANITARY PIPING
— IN WALL —	INWALL SANITARY PIPING
— WATER SUPPLY (COLD) —	WATER SUPPLY (COLD) PIPING
— HOT WATER —	HOT WATER PIPING
— GAS —	GAS PIPING
— GREASE LINE —	GREASE LINE PIPING
— VENT —	VENT PIPING
⊘	REDUCER
⊞	VALVE

PROJECT:	CEE: 4850
DATE :	04/01/2022
DRAWN BY:	BRB
REVISION:	

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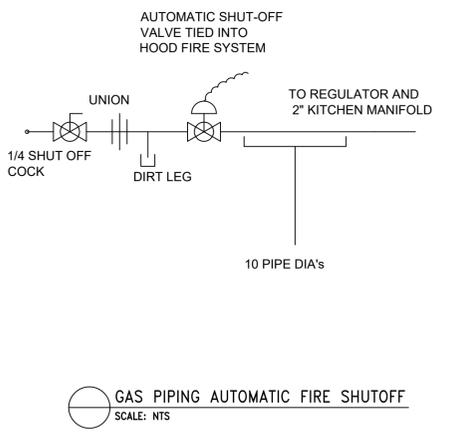
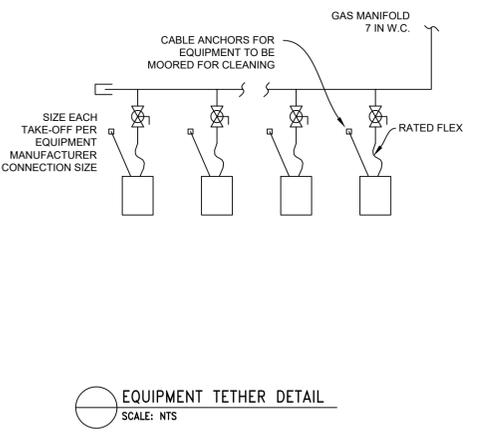
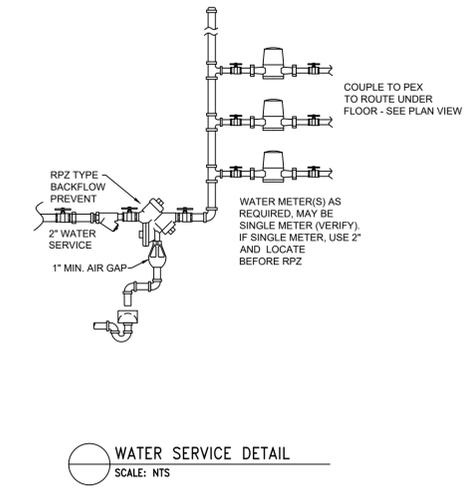
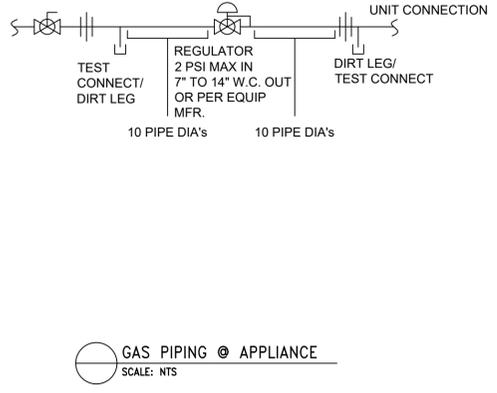
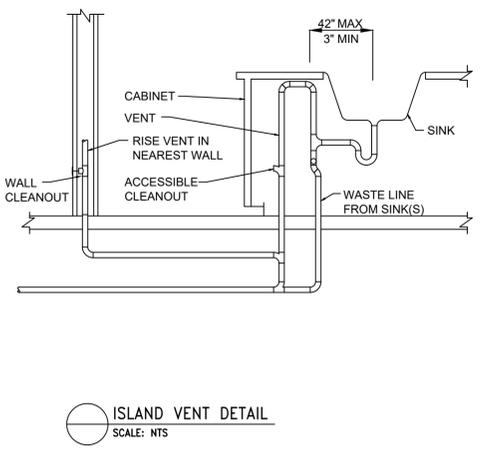
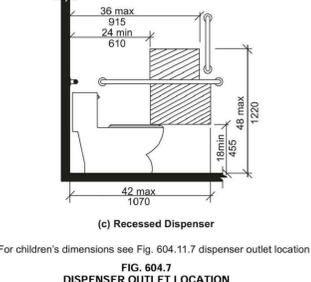
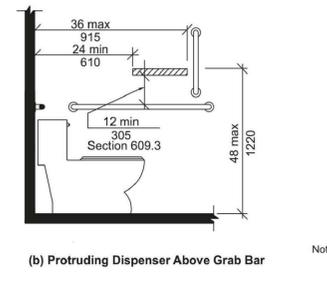
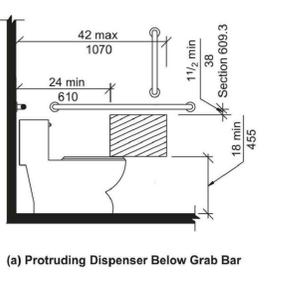
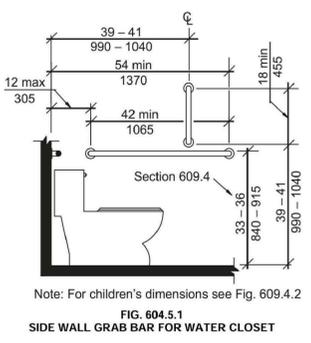
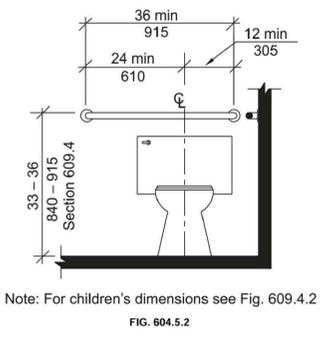
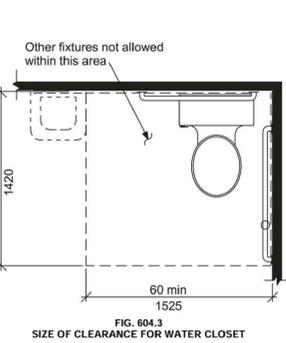
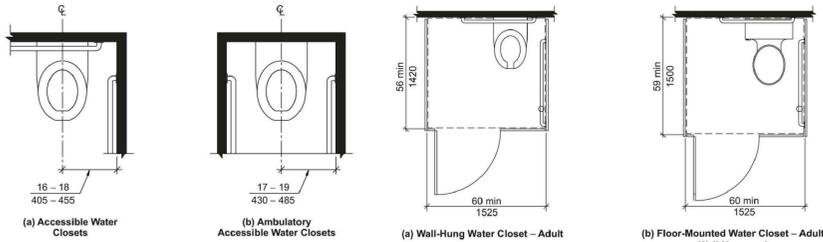
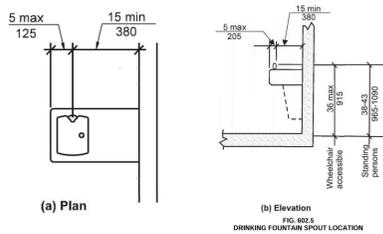
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VINNY'S LOUNGE RENOVATION

224 FIFTH AVE S
 CLINTON, IA 52732

SHEET NAME
 SANITARY PLUMBING PLANS

SHEET NO.
P-100



PROJECT: CEE: 4850
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VINNY'S LOUNGE RENOVATION
 224 FIFTH AVE S
 CLINTON, IA 52732

SHEET NAME
 PLUMBING
 DETAILS

SHEET NO.
P-103