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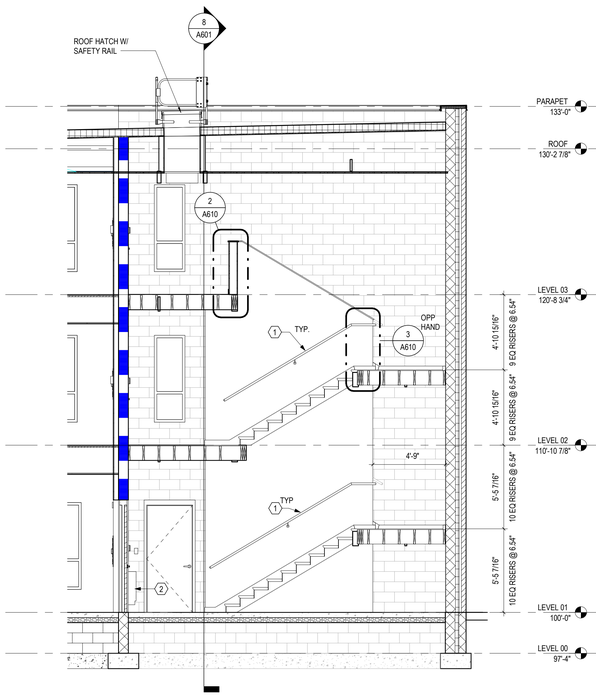
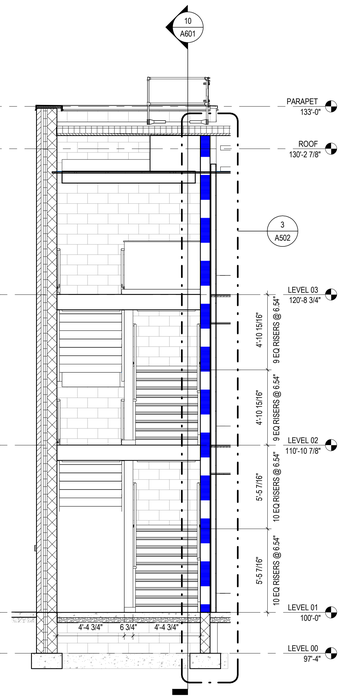
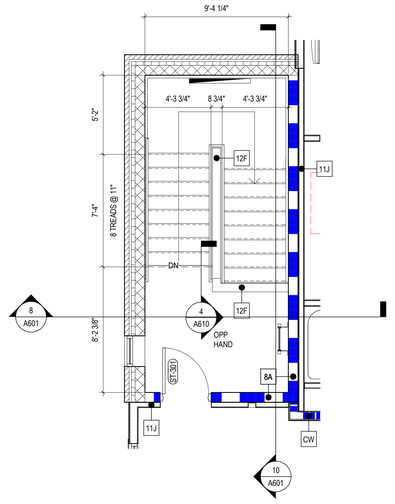


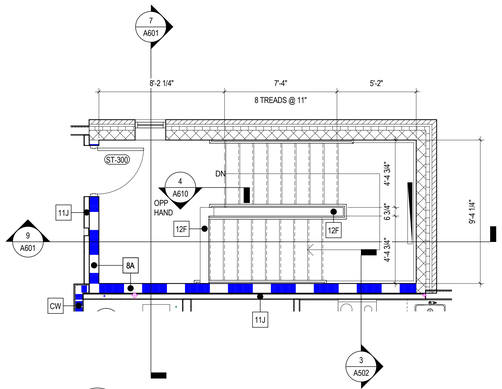
10 SECTION WEST STAIRWELL
1/4" = 1'-0"



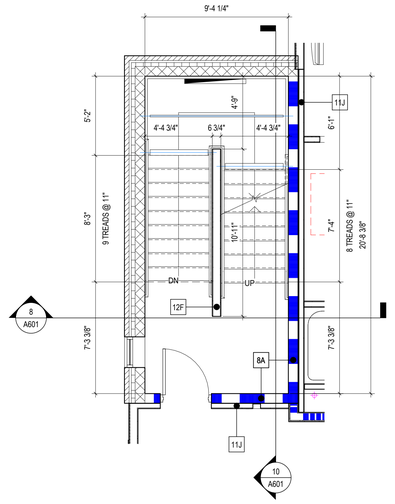
8 SECTION WEST STAIRWELL
1/4" = 1'-0"



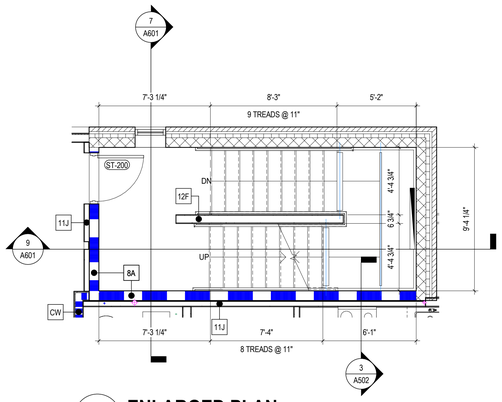
6 ENLARGED PLAN LEVEL 03 - WEST STAIRWELL
1/4" = 1'-0" REF: 1 / A103



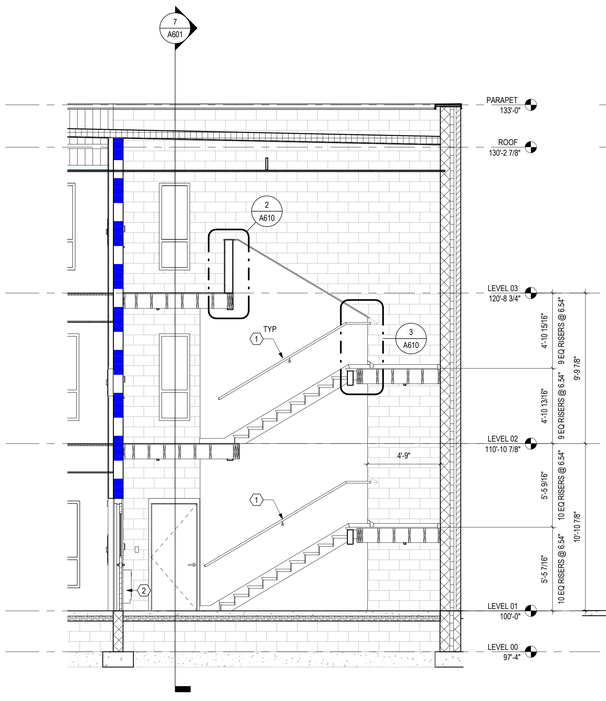
3 ENLARGED PLAN LEVEL 03 - NORTH STAIRWELL
1/4" = 1'-0" REF: 1 / A103



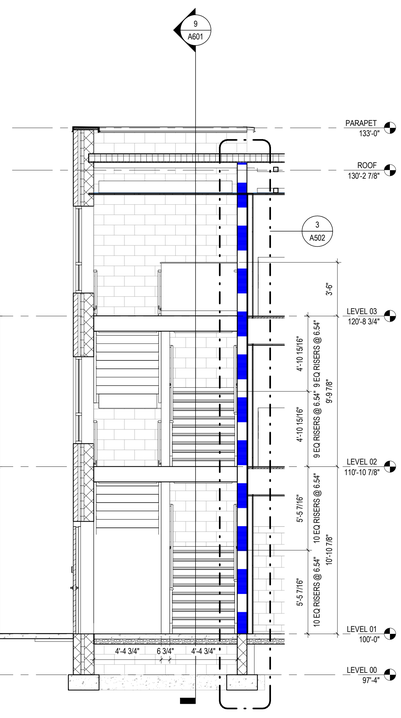
5 ENLARGED PLAN LEVEL 02 - WEST STAIRWELL
1/4" = 1'-0" REF: 1 / A102



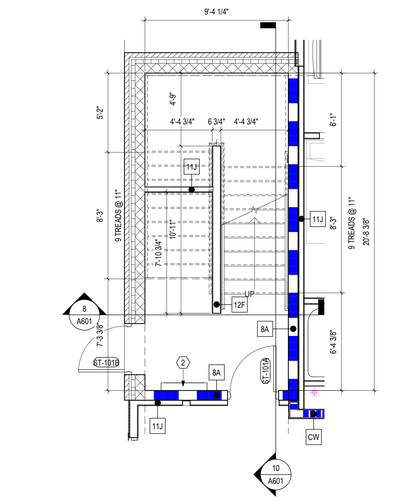
2 ENLARGED PLAN LEVEL 02 - NORTH STAIRWELL
1/4" = 1'-0" REF: 1 / A102



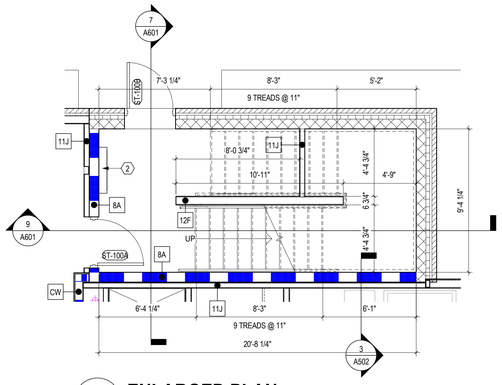
9 SECTION NORTH STAIRWELL
1/4" = 1'-0"



7 SECTION NORTH STAIRWELL
1/4" = 1'-0"



4 ENLARGED PLAN LEVEL 01 - WEST STAIRWELL
1/4" = 1'-0" REF: 1 / A101



1 ENLARGED PLAN LEVEL 01 - NORTH STAIRWELL
1/4" = 1'-0" REF: 1 / A101

GENERAL NOTES - VERTICAL CIRCULATION

A. STAIRS AND RAMPS SHALL BE BUILT TO WITHSTAND A 100 POUND PER SQUARE FOOT UNIFORM LOAD OR A CONCENTRATED LOAD OF 300 POUNDS ON ANY FOUR SQUARE INCHES OF TREAD.
B. RAILINGS AND GUARDRAILS SHALL BE BUILT TO WITHSTAND 50 POUNDS PER LINEAR FOOT OR 200 POUNDS CONCENTRATED LOAD OUTWARD FORCE AT 3'-0" ABOVE FLOOR OR NOSING.
C. REFER TO A600 SERIES FOR TYPICAL STAIR DETAILS. ALL STAIR CONSTRUCTION TO CONFORM TO 2017 OBC.
D. SEE CODE PLANS FOR ACCESSIBLE MEANS OF EGRESS REQUIREMENTS AT ELEVATORS AND STAIRS.
E. PROVIDE INTERIOR STAIRWAY SIGNAGE DESIGNATING THE FOLLOWING: FLOOR LEVEL; TERMINUS OF TOP AND BOTTOM OF ENCLOSURE; STAIR IDENTIFICATION; STORY OF AND DIRECTION OF EXIT DISCHARGE; ROOF ACCESS AVAILABILITY. LOCATE SIGNAGE 5'-0" ABOVE FLOOR LANDING IN A POSITION READILY VISIBLE WHEN DOOR IS OPENED OR CLOSED.
F. WOOD STAIR CONSTRUCTION: WOOD TREADS, RISERS, STRINGERS.
G. PROVIDE HANDRAIL AT BOTH SIDES OF STAIRS AND RETURN HANDRAIL ENDS TO WALL (WHERE ADJACENT).
H. ALL RAILINGS TO HAVE 4-INCH MAX CLEAR BETWEEN RAILING AND BUILDING SURFACES. PICKET RAILINGS TO HAVE 4-INCH MAX OPENINGS.
I. PAINT METAL RAILING AT STAIRS.

CODED NOTES - VERTICAL CIRCULATION

1. 1 1/2" DIAMETER WALL MOUNTED HANDRAIL, PAINT.
2. ELEC. UNIT HEATER, SEE MECHANICAL DRAWINGS.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
VERTICAL CIRCULATION - STAIRS

STATE OF OHIO
JAY W. BOONE
10740
REGISTERED ARCHITECT

JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022
DRAWN BY: XXX | CHECKED BY: XXX
Proj. #20643

A601

PERMIT & BID SET

PRINT DATE: 4/1/2022 10:31:40 AM
FILE INFO: C:\$$Local Revit Projects\2021 Projects\20643 Harriets Hope PSH - ARCH_RKrall_R2020.rvt

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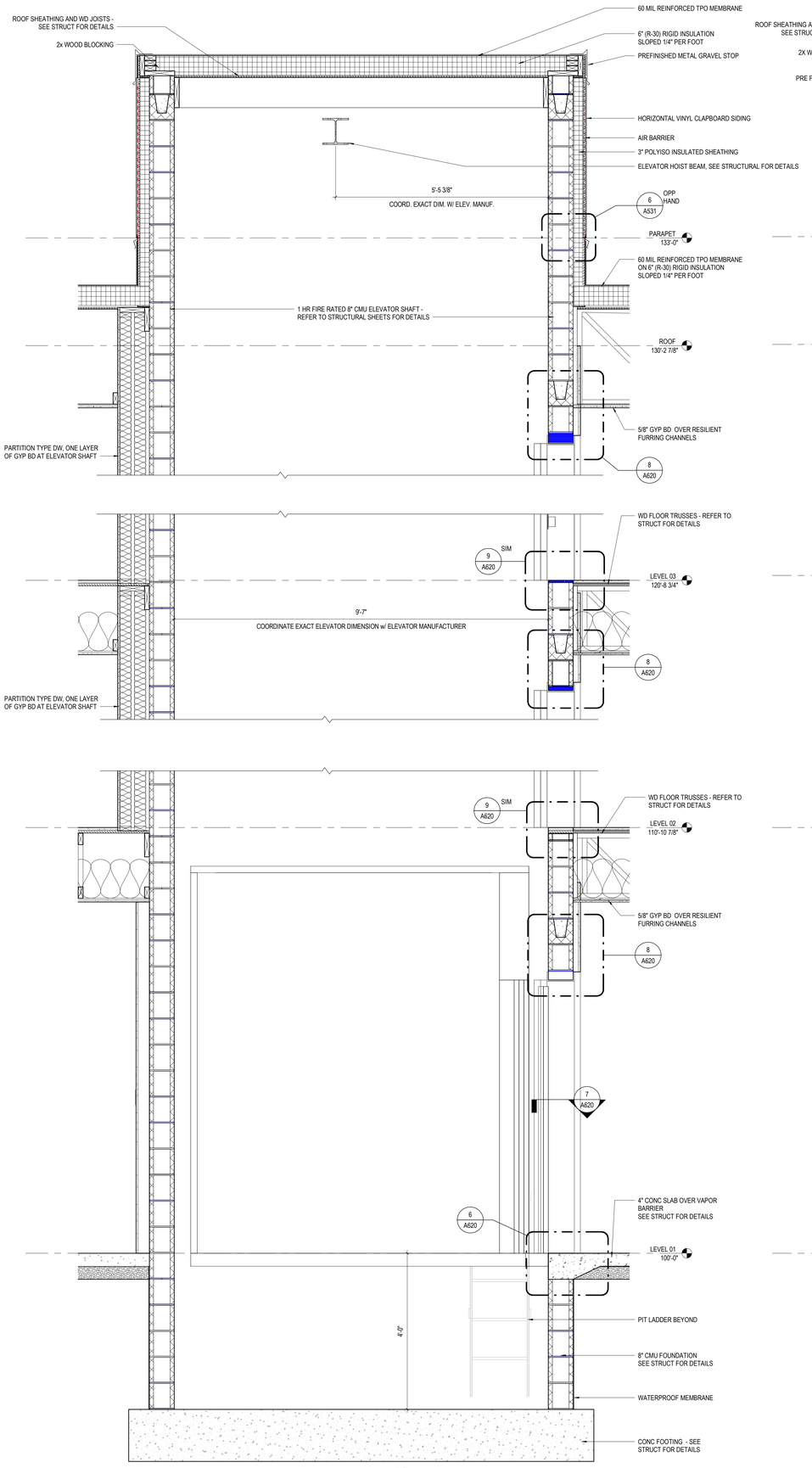
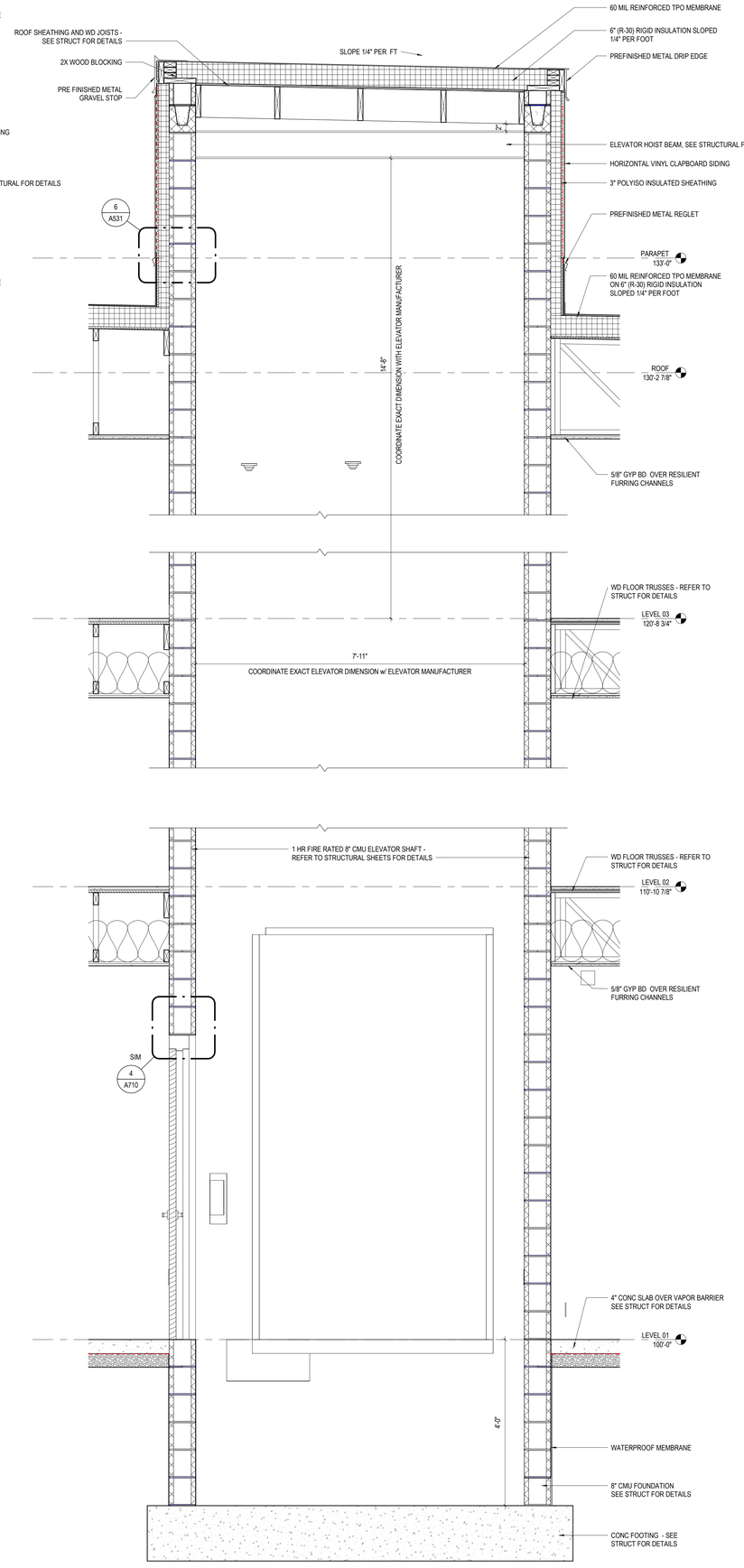
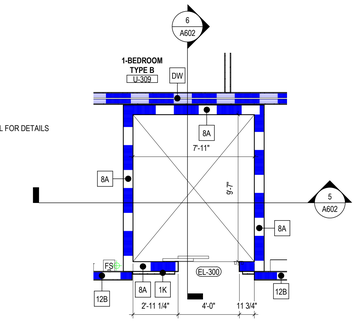


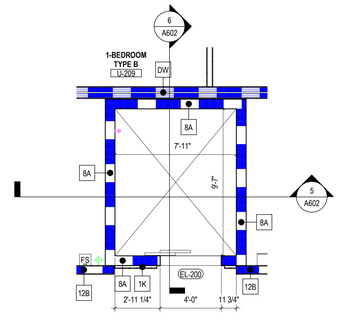
6 SECTION ELEVATOR - N/S SECTION
3/4" = 1'-0"



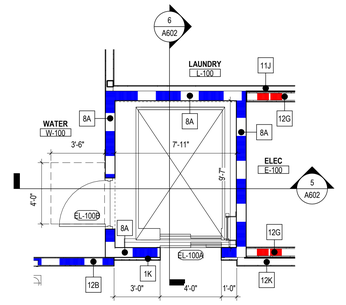
5 SECTION ELEVATOR - E/W SECTION
3/4" = 1'-0"



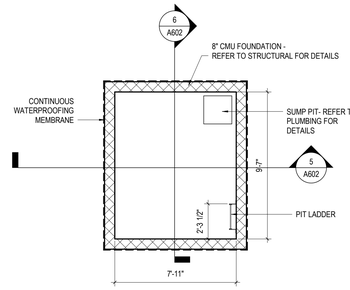
4 ENLARGED PLAN LEVEL 03 - ELEVATOR
1/4" = 1'-0" REF: 1 / A103



3 ENLARGED PLAN LEVEL 02 - ELEVATOR
1/4" = 1'-0" REF: 1 / A102



2 ENLARGED PLAN LEVEL 01 - ELEVATOR
1/4" = 1'-0" REF: 1 / A101



1 ENLARGED PLAN ELEVATOR PIT
1/4" = 1'-0"

GENERAL NOTES - VERTICAL CIRCULATION

A. PROVIDE A TWO WAY COMMUNICATION SYSTEM AT EACH ELEVATOR LANDING, TYP. COORDINATE FINAL LOCATION OF DEVICE WITH ARCHITECT IN THE FIELD. REFER TO MEP INFORMATION.
B. REFER TO A600 SERIES SHEETS FOR TYPICAL ELEVATOR DETAILS. ALL ELEVATOR CONSTRUCTION TO CONFORM TO OBC.
C. SEE CODE PLANS FOR ACCESSIBLE MEANS OF EGRESS REQUIREMENTS AT ELEVATORS.
D. COORDINATE ELEVATOR OPENING LOCATIONS AND SIZE WITH SPECIFIC ELEVATOR MANUFACTURER PRIOR TO CONSTRUCTION OF ELEVATOR SHAFTS.
E. FIELD VERIFY ELEVATOR FINISH FLOOR ELEVATIONS AND FIELD CONDITIONS PRIOR TO FABRICATION / INSTALLATION.
F. REFER TO PLUMBING SHEETS FOR ELEVATOR SUMP LOCATION. COORDINATE WITH ARCHITECTURAL SUMP DETAILS ON ELEVATOR DETAIL SHEETS. COORDINATE REQUIREMENTS WITH ELEVATOR MANUFACTURER'S FINAL SHOP DRAWINGS.
G. PROVIDE ELEVATOR DETAILS THAT INCLUDE, BUT ARE NOT LIMITED TO:
- INDICATING THE CALL CONTROLS ARE LOCATED WITHIN AN ACCESSIBLE REACH RANGE NOT TO EXCEED 48 INCHES ABOVE THE FINISHED FLOOR MAXIMUM MEASURED TO THE CENTERLINE OF THE HIGHEST OPERABLE PART.
- CALL BUTTONS MUST HAVE VISIBLE SIGNALS THAT WILL ACTIVATE WHEN EACH CALL IS REGISTERED AND WHEN EACH CALL IS ANSWERED.
- VISIBLE HALL SIGNALS MUST BE PROVIDED AT EACH HOISTWAY CENTERED 72 INCHES MINIMUM ABOVE THE FINISHED FLOOR AND MUST BE 2-1/2 INCHES MINIMUM MEASURED ALONG THE VERTICAL CENTERLINE OF THE ELEMENT.
- FLOOR DESIGNATIONS MUST BE PROVIDED ON BOTH JAMBS OF ELEVATOR HOISTWAY ENTRANCES. FLOOR DESIGNATIONS MUST BE PROVIDED IN BOTH TACTILE CHARACTERS AND BRAILLE. TACTILE CHARACTERS MUST BE 2 INCHES HIGH MINIMUM. A TACTILE STAR MUST BE PROVIDED ON BOTH JAMBS AT THE MAIN ENTRY LEVEL.
- ELEVATOR CAR CONTROLS WITH SIZE AND SHAPE WITHIN AN ACCESSIBLE REACH RANGE TO THE TOP OPERABLE PART.
- EMERGENCY CONTROL BUTTONS WITH THEIR CENTERLINES 35 INCHES MINIMUM ABOVE THE FINISHED FLOOR. ANSI 407, 703

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE
VERTICAL CIRCULATION - ELEVATOR

STATE OF OHIO — JAY W BOONE — 10740 — REGISTERED ARCHITECT
JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022
DRAWN BY: **XXX** CHECKED BY: **XXX**
Proj. #20643
A602
PERMIT & BID SET

PRINT DATE: 4/1/2022 10:31:43 AM
FILE INFO: C:\$$Local Revit Projects\2021 Projects\20643 Hamels Hope PSH - ARCH_ RKeal\APRSD_rvt

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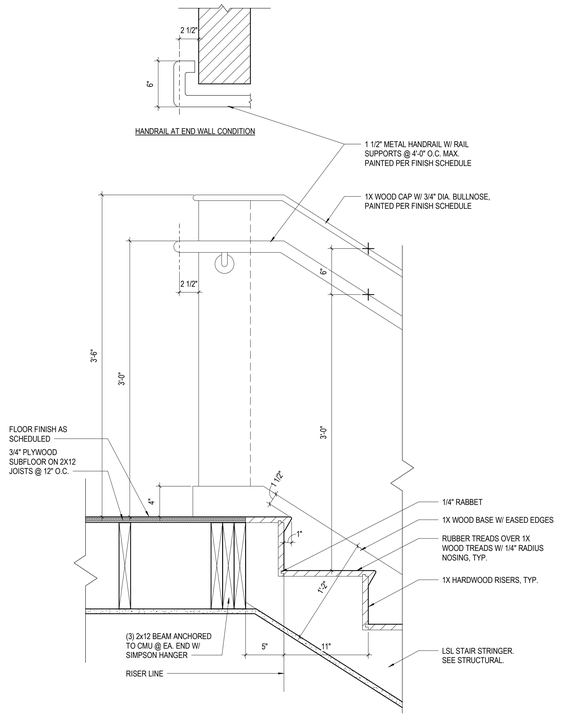
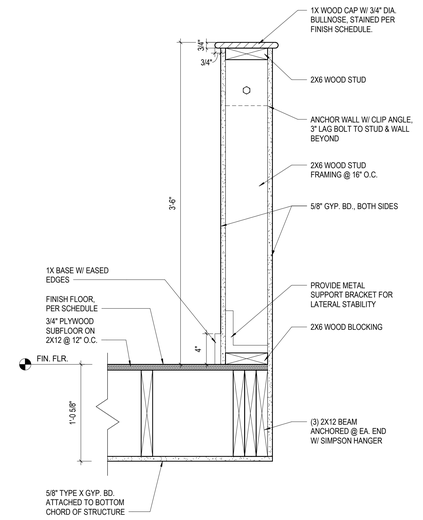
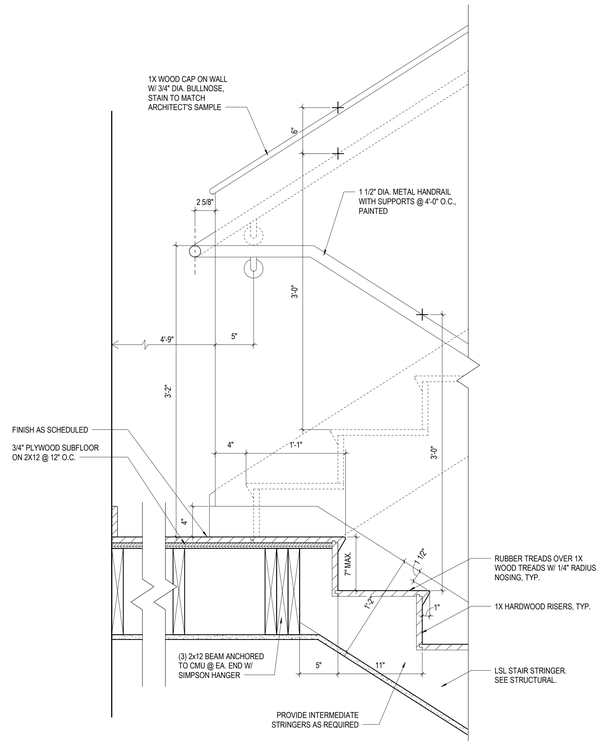


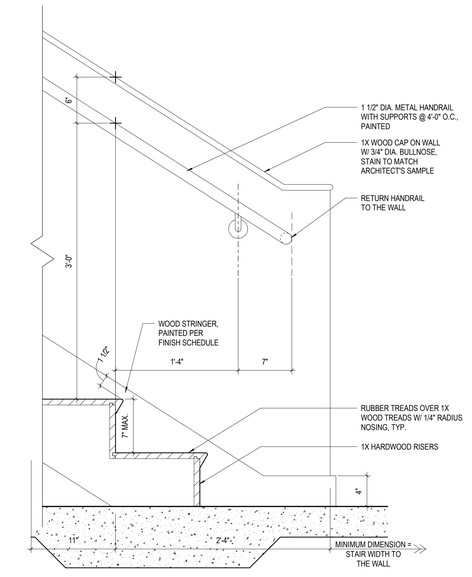
4 DETAIL WOOD STAIR @ TOP LANDING
1 1/2" = 1'-0" REF: 3 / A601



2 DETAIL KNEE WALL @ TOP LANDING
1 1/2" = 1'-0" REF: 9 / A601



3 DETAIL WOOD STAIR @ INTERMEDIATE LANDING
1 1/2" = 1'-0" REF: 9 / A601



1 DETAIL WOOD STAIR @ BOTTOM LANDING
1 1/2" = 1'-0"

GENERAL NOTES - STAIR & ELEVATOR DETAIL

A. TBD

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
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DRAWING TITLE:

WOOD STAIR DETAILS

STATE OF OHIO
JAY W BOONE
10740
REGISTERED ARCHITECT

JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022
DRAWN BY: XXX | CHECKED BY: XXX
Proj. #20643
A610
PERMIT & BID SET

PRINT DATE: 4/1/2022 10:31:44 AM
FILE INFO: C:\$$Local Revit Projects\2021 Projects\20643 Hamels Hope PSH - ARCH_RKeal\APRSD_rvt

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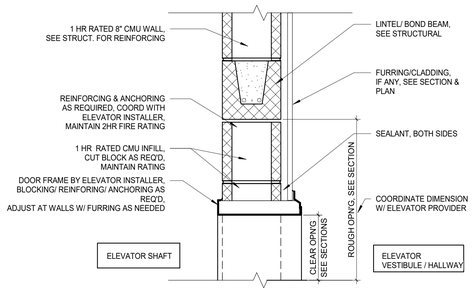
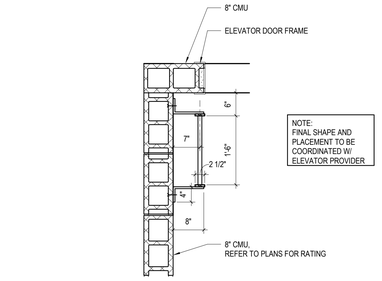
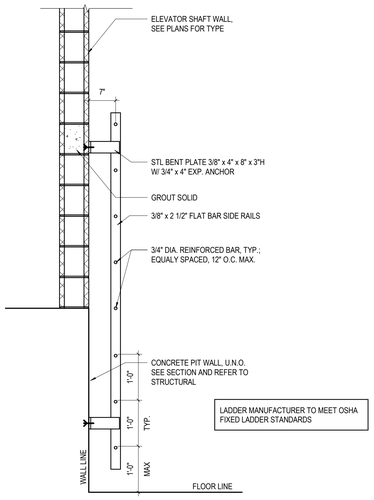


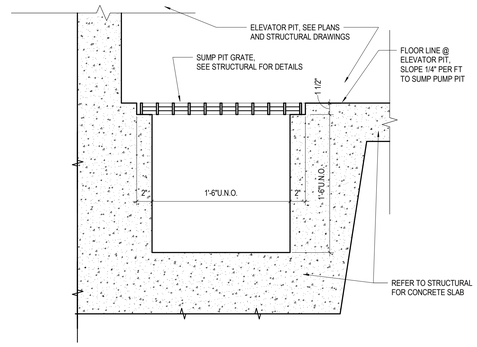
8 DETAIL ELEVATOR DOOR HEAD
1 1/2" = 1'-0" REF: 6 / A602



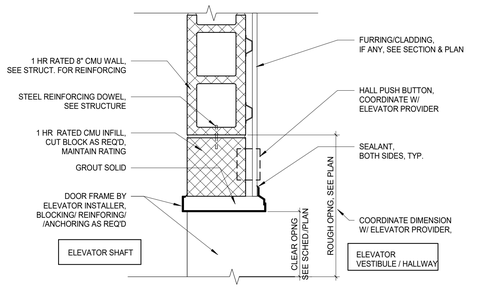
5 DETAIL ELEV. PIT LADDER - PLAN
3/4" = 1'-0"



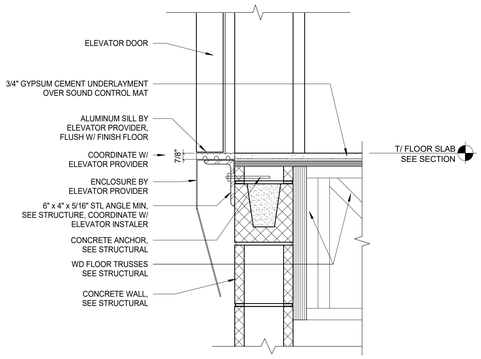
4 SECTION ELEVATOR PIT LADDER - SECTION
3/4" = 1'-0"



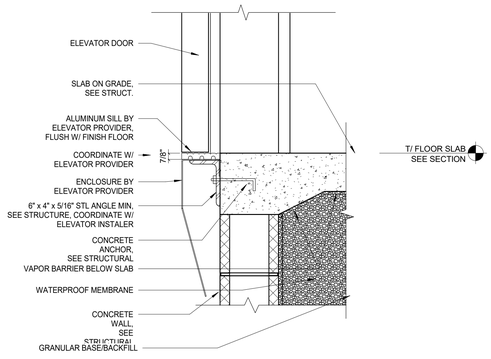
2 SECTION ELEVATOR SUMP PUMP PIT - SECTION
1 1/2" = 1'-0"



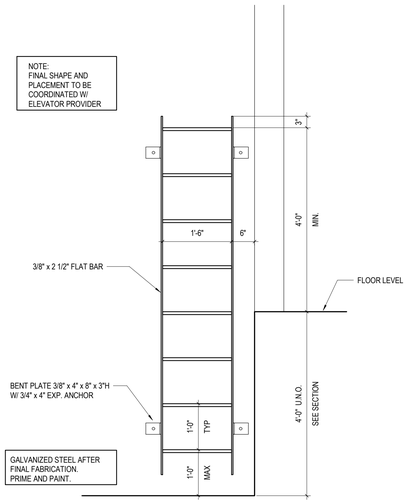
7 DETAIL ELEVATOR DOOR JAMB
1 1/2" = 1'-0" REF: 6 / A602



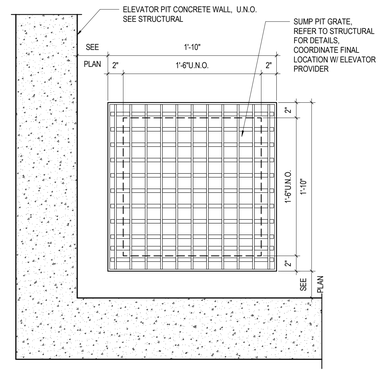
9 DETAIL ELEVATOR DOOR SILL - UPPER FLOORS
1 1/2" = 1'-0" REF: 6 / A602



6 DETAIL ELEVATOR DOOR SILL - FIRST FLOOR
1 1/2" = 1'-0" REF: 6 / A602



3 ELEVATION ELEVATOR PIT LADDER - ELEVATION
3/4" = 1'-0"



1 PLAN ELEVATOR SUMP PIT - PLAN
1 1/2" = 1'-0"

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

ELEVATOR DETAILS

STATE OF OHIO
JAY W BOONE
10740
REGISTERED ARCHITECT

JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022

DRAWN BY: XXX | CHECKED BY: XXX

Proj. #20643

A620

PERMIT & BID SET

PRINT DATE: 4/1/2022 10:31:46 AM
FILE INFO: C:\$Local Revit Projects\2021 Projects\20643 Hamlets Hope PSH - ARCH_RKnollPPRSQ.rvt

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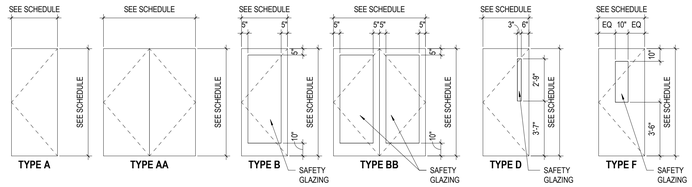
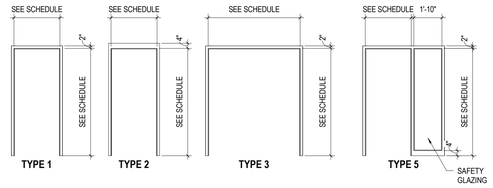
DOOR PANEL TYPE LEGEND

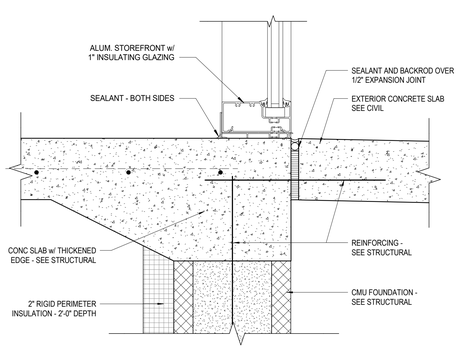


DOOR FRAME TYPE LEGEND

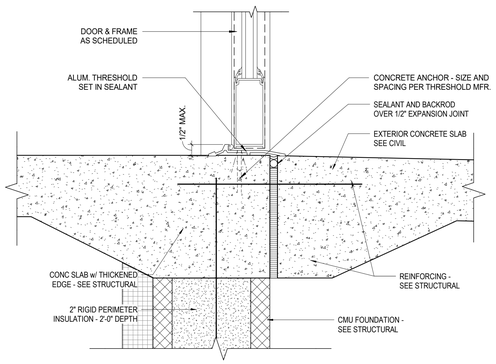


DOOR SCHEDULE

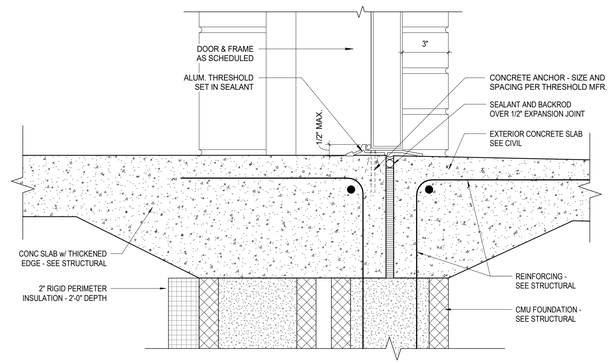
DOOR						FRAME		FIRE RATING (MINUTES)	HDW SET	DETAILS - SHEET A710			REMARKS
NUMBER	ROOM NAME	WIDTH	HEIGHT	MATERIAL	ELEV	MATERIAL	ELEV			HEAD	JAMB	SILL	
AD-101	ADMIN	3'-0"	7'-0"	WD	A	HM	5	-	3	2	1	-	
C-100	CORRIDOR	3'-0"	7'-0"	WD	A	HM	1	60	8	10	9	-	
C-101	CORRIDOR	3'-0"	7'-0"	WD	A	HM	1	60	8	10	9	-	
C-102	CORRIDOR	3'-0"	7'-0"	HM	A	HM	2	-	20	20	19	2/A701	
CR-100A	COMMUNITY ROOM	3'-0"	7'-0"	WD	A	HM	5	60	16	10	9	-	60 MIN FIRE RATED GLAZING & FRAME
CR-100B	COMMUNITY ROOM	3'-0"	7'-0"	ALUM	B	ALUM	6/A701	-	14	28	27	1/A701	
CR-101A	COMMUNITY ROOM	3'-0"	7'-0"	WD	A	HM	5	60	16	10	9	-	60 MIN FIRE RATED GLAZING & FRAME
CR-101B	COMMUNITY ROOM	3'-0"	7'-0"	ALUM	B	ALUM	6/A701	-	14	28	27	1/A701	
E-100	ELEC	3'-0"	7'-0"	HM	A	HM	1	90	17	30	29	-	
E-200	ELEC	3'-0"	7'-0"	HM	A	HM	1	60	17	10	9	-	
E-300	ELEC	3'-0"	7'-0"	HM	A	HM	1	60	17	10	9	-	
EL-100A	ELEV.	4'-0"	7'-0"	SS	BY MFR	SS	BY MFR	60	18	8/A620	7/A620	9/A920	
EL-100B	ELEV.	3'-0"	7'-0"	HM	A	HM	2	60	12	4	3	-	DETAILS SIMILAR WITH NO FURRING
EL-200	ELEV	4'-0"	7'-0"	SS	BY MFR	SS	BY MFR	60	18	8/A620	7/A620	9/A620	
EL-300	ELEV	4'-0"	7'-0"	SS	BY MFR	SS	BY MFR	60	18	8/A620	7/A620	9/A620	
J-101	JAN	3'-0"	7'-0"	HM	A	HM	1	-	9	2	1	-	
J-201	JAN	3'-0"	7'-0"	HM	A	HM	1	-	10	2	1	-	
J-301	JAN	3'-0"	7'-0"	HM	A	HM	1	-	10	2	1	-	
L-100	LAUNDRY	3'-0"	7'-0"	HM	A	HM	1	20	4	10	9	-	3/4" UNDERCUT @ DOOR
L-101	LAUNDRY	3'-0"	7'-0"	HM	A	HM	1	20	4	10	9	-	3/4" UNDERCUT @ DOOR
L-200	LAUNDRY	3'-0"	7'-0"	HM	A	HM	1	20	4	10	9	-	3/4" UNDERCUT @ DOOR
L-300	LAUNDRY	3'-0"	7'-0"	HM	A	HM	1	20	4	10	9	-	3/4" UNDERCUT @ DOOR
M-101A	MECH	3'-0"	7'-0"	HM	A	HM	1	-	9	2	1	-	
M-101B	MECH/ELEC	3'-0"	7'-0"	HM	A	HM	1	60	15	10	9	-	
M-200	MECH	6'-0"	7'-0"	HM	AA	HM	3	20	13	10	9	-	
M-300	MECH	6'-0"	7'-0"	HM	AA	HM	3	20	13	10	9	-	
MG-101A	MEETING	3'-0"	7'-0"	WD	A	HM	5	-	1	24	18	-	
MG-101B	MEETING	3'-0"	7'-0"	WD	A	HM	5	-	1	24	18	-	
MG-101C	MEETING	3'-0"	7'-0"	WD	A	HM	5	-	1	24	18	-	
MG-101D	MEETING	3'-0"	7'-0"	WD	A	HM	5	-	1	2	1	-	
MT-101	MAINT	3'-0"	7'-0"	WD	F	HM	1	-	3	2	1	-	3/4" UNDERCUT @ DOOR
PA-100	PARCEL/ STORAGE	3'-0"	7'-0"	HM	A	HM	1	-	6	2	1	-	3/4" UNDERCUT @ DOOR
S-100	STORAGE	3'-0"	7'-0"	HM	A	HM	1	-	9	2	1	-	3/4" UNDERCUT @ DOOR
S-101A	STORAGE	3'-0"	7'-0"	HM	A	HM	1	-	5	2	1	-	3/4" UNDERCUT @ DOOR
S-101B	STORAGE	3'-0"	7'-0"	HM	A	HM	1	-	5	2	1	-	3/4" UNDERCUT @ DOOR
S-101C	STORAGE	3'-0"	7'-0"	HM	A	HM	1	-	7	2	1	-	3/4" UNDERCUT @ DOOR
ST-100A	STAIR	3'-0"	7'-0"	HM	D	HM	2	60	22	4	3	-	
ST-100B	STAIR	3'-0"	7'-0"	HM	A	HM	2	-	20	26	25	2/A701	
ST-101A	STAIR	3'-0"	7'-0"	HM	D	HM	2	60	22	4	3	2/A701	
ST-101B	STAIR	3'-0"	7'-0"	HM	A	HM	2	-	20	26	25	-	
ST-200	STAIR	3'-0"	7'-0"	HM	D	HM	2	60	22	4	3	-	
ST-201	STAIR	3'-0"	7'-0"	HM	D	HM	2	60	23	4	3	-	
ST-300	STAIR	3'-0"	7'-0"	HM	D	HM	2	60	22	4	3	-	
ST-301	STAIR	3'-0"	7'-0"	HM	D	HM	2	60	22	4	3	-	
T-101A	TOILET	3'-0"	7'-0"	WD	A	HM	1	-	24	2	1	-	3/4" UNDERCUT @ DOOR
T-101B	TOILET	3'-0"	7'-0"	WD	A	HM	1	-	24	2	1	-	3/4" UNDERCUT @ DOOR
V-101A	VESTIBULE	6'-0"	7'-0"	ALUM	BB	ALUM	7/A701	-	19	28	27	1/A701	KEYED REMOVABLE CENTER MULLION
V-101B	VESTIBULE	6'-0"	7'-0"	ALUM	BB	ALUM	8/A701	-	21	22	21	-	KEYED REMOVABLE CENTER MULLION
W-101A	WORK	3'-0"	7'-0"	WD	A	HM	1	-	2	2	1	-	
W-101B	WORK	3'-0"	7'-0"	WD	A	HM	1	-	2	2	1	-	
WA-100	WATER	4'-0"	7'-0"	HM	A	HM	2	-	11	20	19	2/A701	



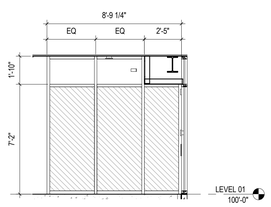
3 DETAIL ALUM STOREFRONT SILL
3" = 1'-0" REF: 3 / A501



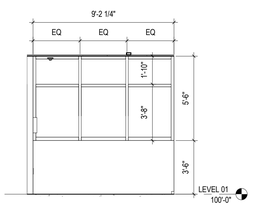
2 DETAIL ALUM THRESHOLD
3" = 1'-0"



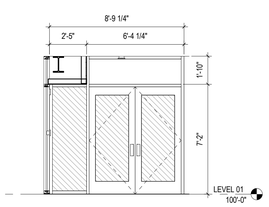
1 DETAIL ALUM THRESHOLD - HM DOOR
3" = 1'-0"



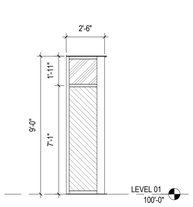
11 ELEVATION STOREFRONT - VESTIBULE WEST
1/4" = 1'-0" REF: 1 / A812



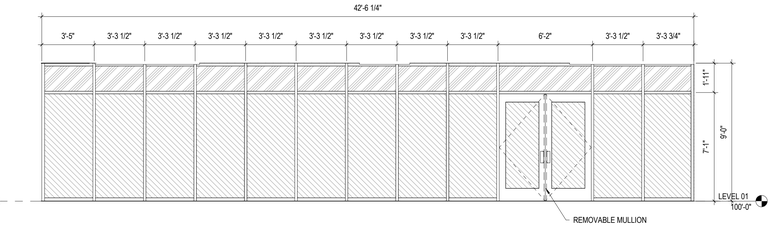
10 ELEVATION STOREFRONT - VESTIBULE SOUTH
1/4" = 1'-0" REF: 1 / A812



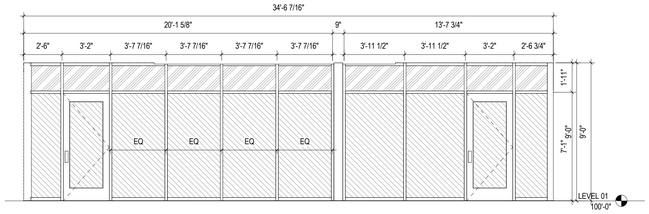
9 ELEVATION STOREFRONT - VESTIBULE EAST
1/4" = 1'-0" REF: 1 / A812



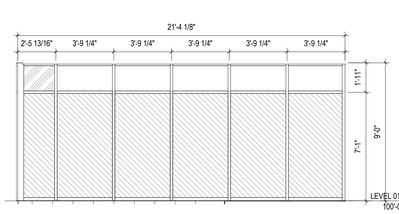
8 ELEVATION STOREFRONT - SIDE
1/4" = 1'-0" REF: 1 / A101



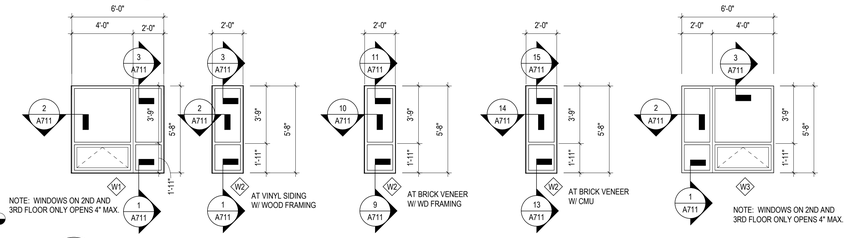
7 ELEVATION STOREFRONT - NORTH ENTRY
1/4" = 1'-0" REF: 1 / A1.0



6 ELEVATION STOREFRONT COMMUNITY ROOM - SOUTH
1/4" = 1'-0" REF: 1 / A1.0

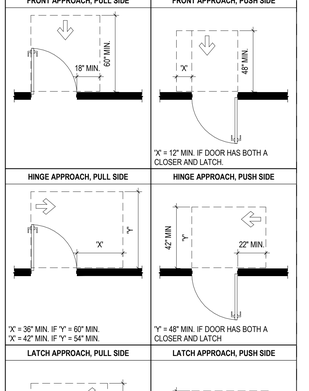


5 ELEVATION STOREFRONT COMMUNITY ROOM - EASTa
1/4" = 1'-0" REF: 1 / A1.0



4 ELEVATION VINYL WINDOWS - TYP
1/4" = 1'-0" REF: 1 / A1.0

DOOR CLEARANCES



INTERIOR GLAZING TYPES

GL-1 INTERIOR GLAZING (CLEAR)

GL-2 INTERIOR GLAZING (CLEAR SAFETY)

GL-3 INTERIOR GLAZING (FIRE RATED 60 MINUTE)

EXTERIOR GLAZING TYPES

IG-1 EXTERIOR INSULATED GLAZING

IG-2 EXTERIOR INSULATED GLAZING (SAFETY)

IG-3 EXTERIOR INSULATED GLAZING (SPANDREL - COLOR BY ARCHITECT)

IG-4 EXTERIOR INSULATED GLAZING (NOISE MITIGATION = OITC 27)

SAFETY GLAZING
Based on 2006 IBC

All glazing, including plastic glazing shall meet all applicable Codes and regulations. As a MINIMUM all glazing at the following locations shall be safety glazing.

DOORS - Glazing in doors (swinging, sliding, storm, or other, except curved glazing at revolving doors).

SIDELIGHTS - Glazing in sidelights adjacent to a door.

ADJACENT TO DOORS - All glazing within 24" of a closed door if the glazing is within 60" of the floor measured vertically.

WALKING SURFACE - Glazing greater than 9 square feet in area if the bottom of the glazing is less than 18" AFF, and the top of the glazing is more than 36" AFF, and there is a walking surface within 36" of the glazing measured horizontally.

MIRRORS - Glazing at mirrors without continuous backing.

ELEVATORS - All glazing at elevator shafts and elevator cabs shall be laminated safety glazing.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

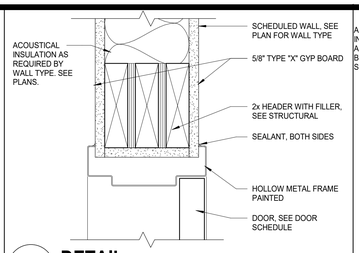
DOOR & WINDOW SCHEDULES

STATE OF OHIO — JAY W BOONE — 10740 — REGISTERED ARCHITECT
JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

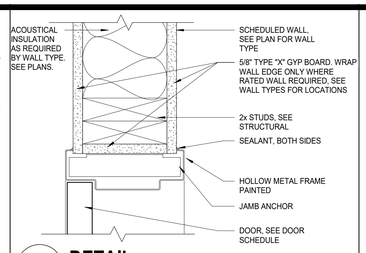
APRIL 4, 2022
DRAWN BY: XXX | CHECKED BY: XXX
Proj. #20643
A701
PERMIT & BID SET

PRINT DATE: 4/1/2022 10:31:51 AM
FILE INFO: C:\$Local Revit Projects\2021 Projects\20643-Harriets Hope FSH - ARCH_RKrist\APROJ.rvt

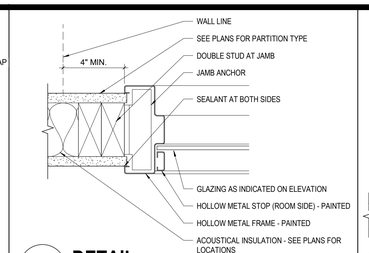
© 2020 MOODY•NOLAN INC.



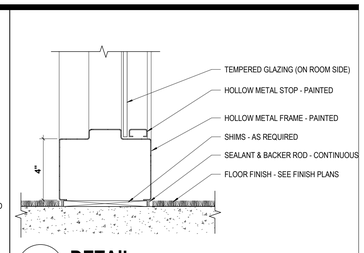
24 DETAIL HEAD AT (MG101A, MG101B & MG101C)
3" = 1'-0"



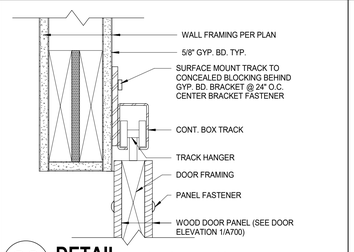
18 DETAIL JAMB AT (MG101A, MG101B & MG101C)
3" = 1'-0"



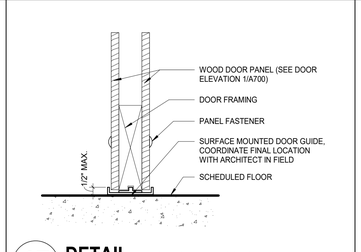
12 DETAIL HOLLOW METAL SIDE LIGHT JAMB
3" = 1'-0"



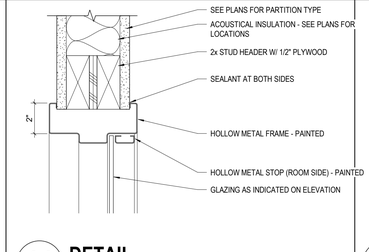
6 DETAIL @ HOLLOW METAL SIDELITE SILL
3" = 1'-0"



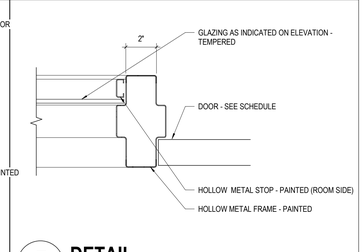
23 DETAIL TRACK MOUNTED DOOR HEAD
3" = 1'-0"



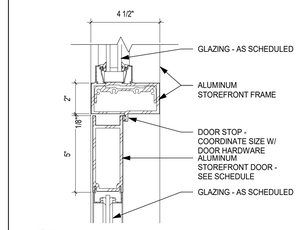
17 DETAIL TRACK MOUNTED DOOR SILL
3" = 1'-0"



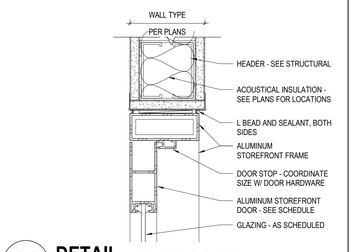
11 DETAIL HOLLOW METAL SIDELITE HEAD
3" = 1'-0"



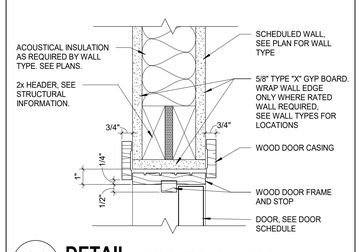
5 DETAIL HOLLOW METAL JAMB W/ SIDELITE
3" = 1'-0"



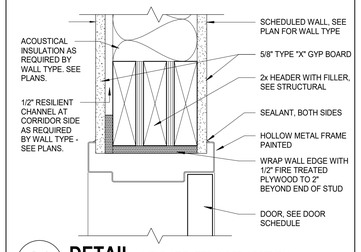
28 DETAIL EXT. STOREFRONT HEAD
3" = 1'-0"



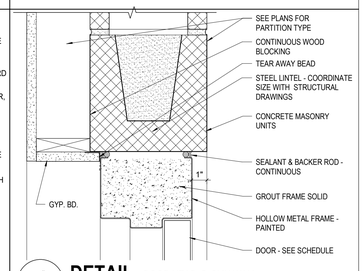
22 DETAIL INT. STOREFRONT HEAD
3" = 1'-0"



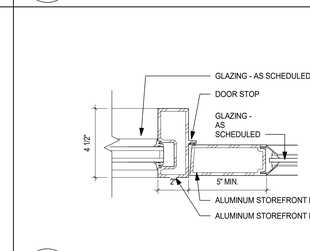
16 DETAIL INTERIOR BEARING WALL HEAD
3" = 1'-0"



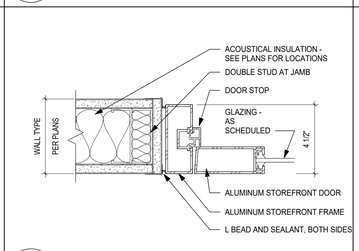
10 DETAIL HEAD AT RATED WOOD ASSEMBLY
3" = 1'-0"



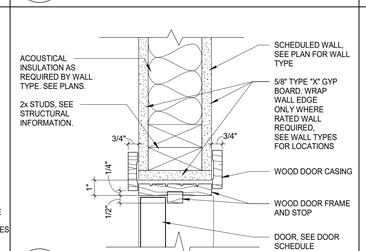
4 DETAIL DOOR HEAD @ CMU WALL
3" = 1'-0"
REF: 5 / A602



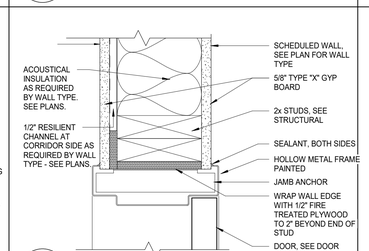
27 DETAIL EXT. STOREFRONT JAMB
3" = 1'-0"



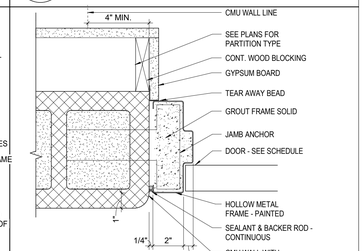
21 DETAIL INT. STOREFRONT JAMB
3" = 1'-0"



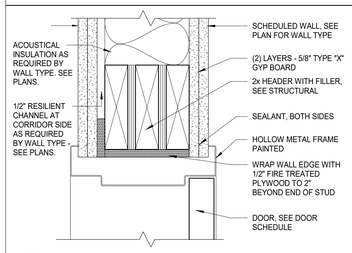
15 DETAIL INTERIOR BEARING WALL JAMB
3" = 1'-0"



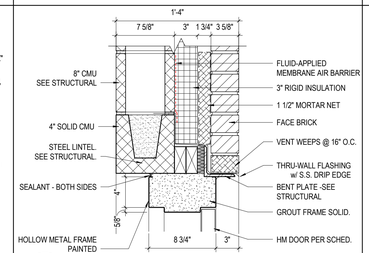
9 DETAIL JAMB AT RATED WOOD ASSEMBLY
3" = 1'-0"



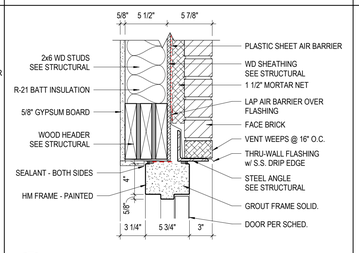
3 DETAIL DOOR JAMB @ CMU WALL
3" = 1'-0"



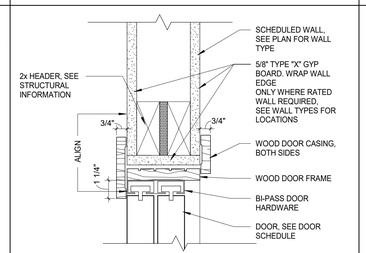
30 DETAIL HEAD AT 2HR RATED WOOD ASSEMBLY
3" = 1'-0"



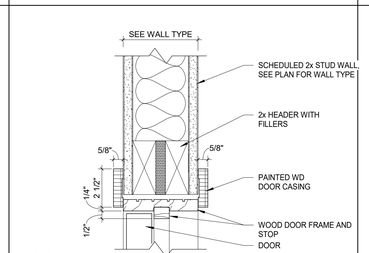
26 DETAIL EXT. DOOR HEAD AT BRICK
1 1/2" = 1'-0"



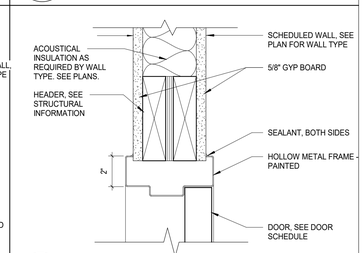
20 DETAIL EXT. HM DOOR HEAD AT BRICK
1 1/2" = 1'-0"



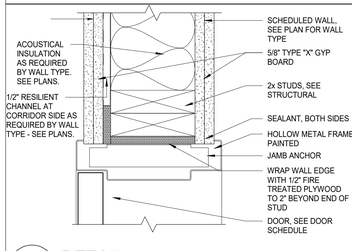
14 DETAIL BY-PASS DOOR HEAD DETAIL
3" = 1'-0"



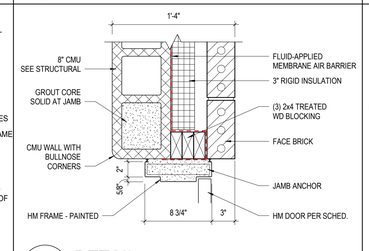
8 DETAIL TYP. WOOD DOOR HEAD
3" = 1'-0"



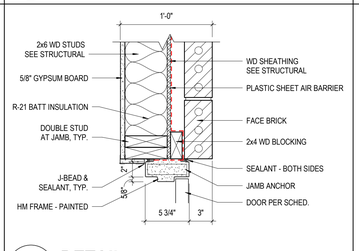
2 DETAIL TYP. HOLLOW METAL HEAD AT WOOD WALL
3" = 1'-0"



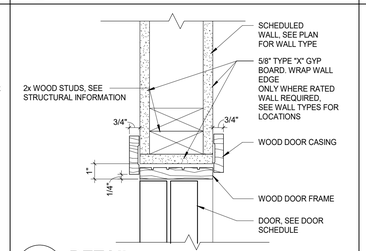
29 DETAIL JAMB AT 2HR RATED WOOD ASSEMBLY
3" = 1'-0"



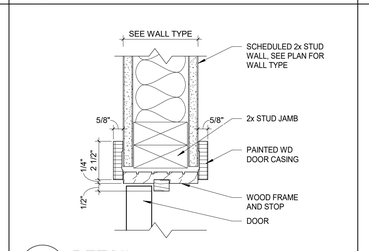
25 DETAIL EXT. HM DOOR JAMB AT BRICK
1 1/2" = 1'-0"



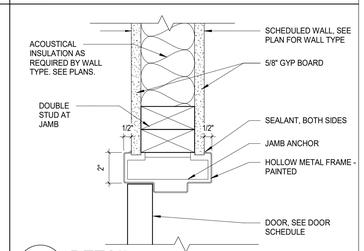
19 DETAIL EXT. HM DOOR JAMB AT BRICK
1 1/2" = 1'-0"



13 DETAIL BY-PASS DOOR JAMB DETAIL
3" = 1'-0"



7 DETAIL TYP. WOOD DOOR JAMB
3" = 1'-0"



1 DETAIL TYP. HOLLOW METAL JAMB AT WOOD WALL
3" = 1'-0"

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

DOOR DETAILS

STATE OF OHIO
JAY W BOONE
10740
REGISTERED ARCHITECT

JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022

DRAWN BY: **Author** | CHECKED BY: **Checker**

Proj. #20643

A710

PERMIT & BID SET

PRINT DATE: 4/1/2022 10:31:56 AM
FILE INFO: C:\$$Local Revit Projects\2021 Projects\20643 Harriets Hope FSH - ARCH_R(kstaff)PRGQ.rvt

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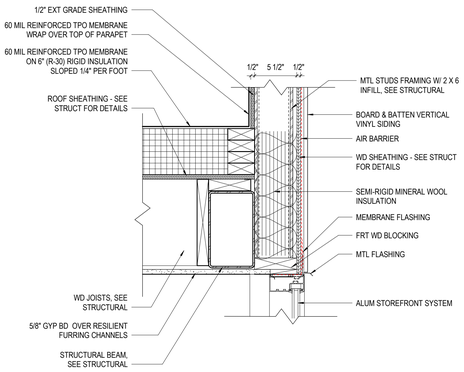
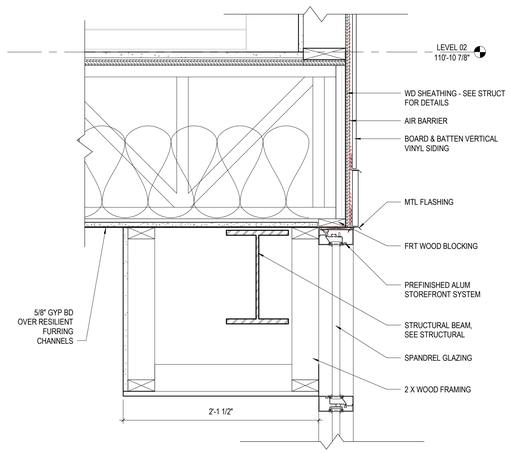
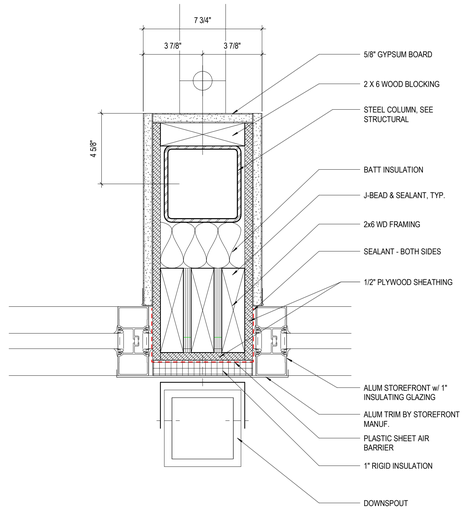


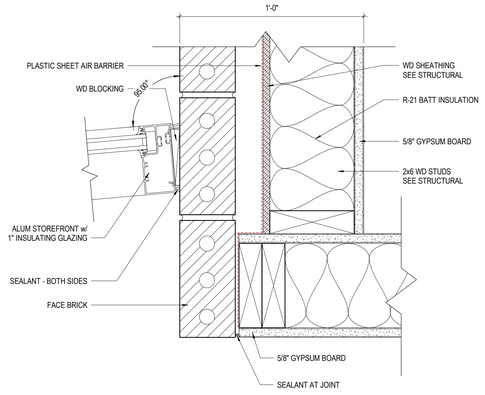
16 DETAIL STOREFRONT HEAD AT LOW ROOF
1 1/2" = 1'-0"



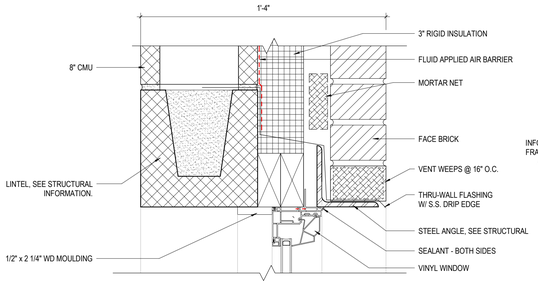
12 DETAIL SOFFIT AT STOREFRONT
1 1/2" = 1'-0"



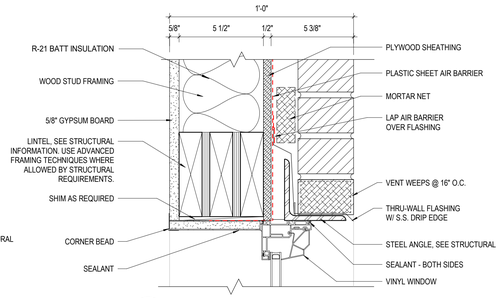
8 DETAIL OPERABLE PARTITION JAMB AT STOREFRONT
3" = 1'-0"



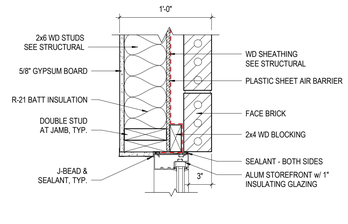
4 DETAIL ALUM JAMB AT BRICK
3" = 1'-0"



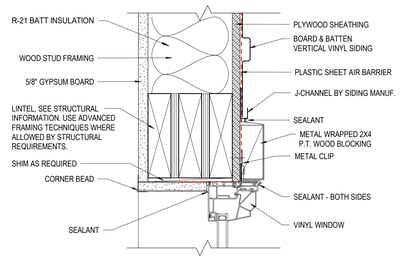
15 DETAIL WINDOW HEAD - BRICK VENEER W/ CMU
3" = 1'-0"



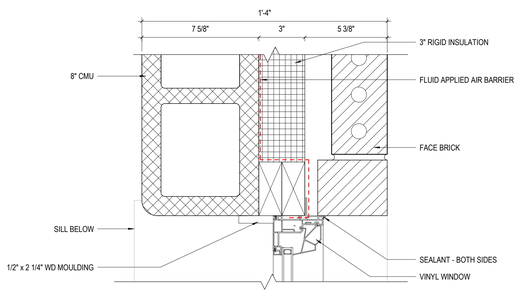
11 DETAIL WINDOW HEAD - BRICK VENEER W WD STUDS
3" = 1'-0"



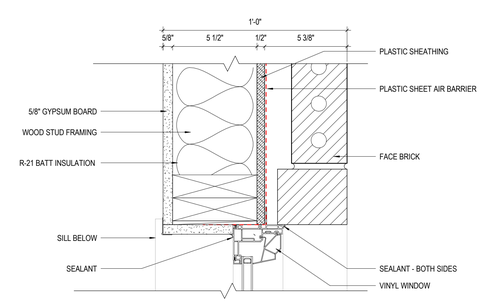
7 DETAIL EXT. ALUM STOREFRONT JAMB AT BRICK
1 1/2" = 1'-0"



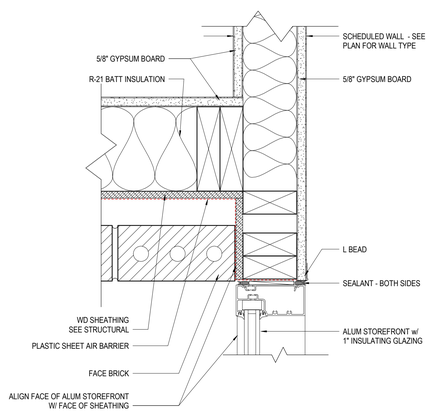
3 DETAIL WINDOW HEAD - METAL SHINGLE SIDING
3" = 1'-0"



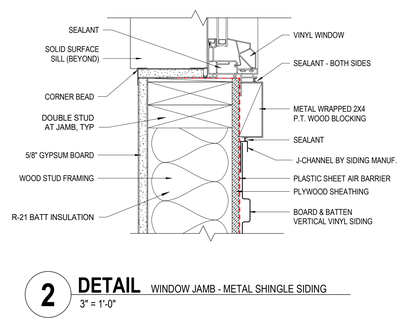
14 DETAIL WINDOW JAMB - BRICK VENEER W/ CMU
3" = 1'-0"



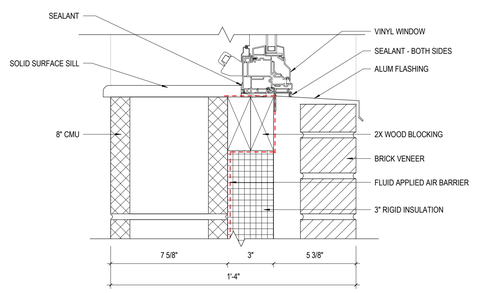
10 DETAIL WINDOW JAMB - BRICK VENEER W/ CMU
3" = 1'-0"



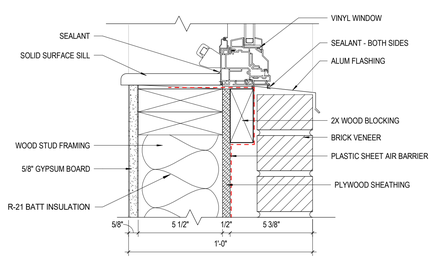
6 DETAIL ALUM JAMB AT BRICK - CR
3" = 1'-0"



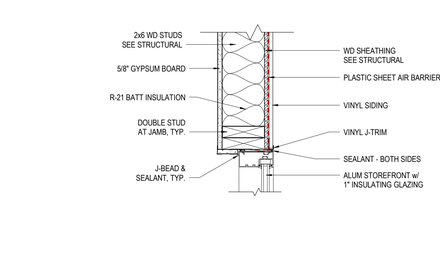
2 DETAIL WINDOW JAMB - METAL SHINGLE SIDING
3" = 1'-0"



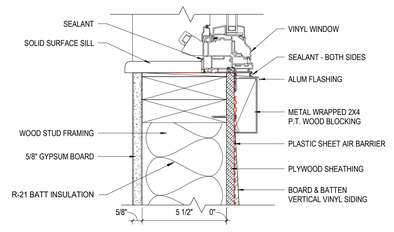
13 DETAIL WINDOW SILL - BRICK VENEER W/ CMU
3" = 1'-0"



9 DETAIL WINDOW SILL - BRICK VENEER W/ WD STUDS
3" = 1'-0"



5 DETAIL EXT. ALUM STOREFRONT JAMB AT VINYL SIDING
1 1/2" = 1'-0"



1 DETAIL WINDOW SILL - VINYL SIDING
3" = 1'-0"

PRINT DATE: 4/1/2022 10:31:59 AM
FILE INFO: C:\$$Local Revit Projects\2021 Projects\20643 Hamads Hope PSH - ARCH_RKnoll.APRSQ.rvt

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
WINDOW DETAILS

STATE OF OHIO
JAY W BOONE
10740
REGISTERED ARCHITECT
JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022
DRAWN BY: XXX | CHECKED BY: XXX
Proj. #20643
A711
PERMIT & BID SET

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TYPICAL RESIDENTIAL DOOR SCHEDULE

MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS - SHEET A710 HEAD	DETAILS - SHEET A710 JAMB	DETAILS - SHEET A710 SILL	REMARKS
U-A	UNIT ENTRY	3'-0"	6'-8"	1 3/4"	ID	AP	HM	1	20 MIN	U1	10	9		UNIT ENTRANCE DOOR, ALL UNIT TYPES
U-BA	BATHROOM	3'-0"	6'-8"	1 3/4"	ID	AP	WD	1		U3	8	7		ALL UNIT TYPES, ALL BATH LOCATIONS
U-BD1	BEDROOM	3'-0"	6'-8"	1 3/4"	ID	AP	WD	1		U3	8	7		ALL UNIT TYPES, 90 DEGREE DOOR SWING
U-BD2	BEDROOM	3'-0"	6'-8"	1 3/4"	ID	AP	WD	1		U3	8	7		ALL UNIT TYPES, 140 DEGREE DOOR SWING
U-BD3	BEDROOM	3'-0"	6'-8"	1 3/4"	ID	AP	WD	1		U3	8	7		ALL UNIT TYPES, 180 DEGREE DOOR SWING
U-CL1	CLOSET	3'-0"	6'-8"	1 3/4"	ID	AP	WD	1		U2	8	7		SINGLE SWING DOOR, TYPE A UNIT, ACCESSIBLE LOCATIONS, U.N.O.
U-CL2	CLOSET	5'-0"	6'-8"	1 3/4"	ID	AAPS	WD	3		U5	14	13		BYPASS DOOR, TYPE B UNITS
U-CL3	CLOSET	5'-0"	6'-8"	1 3/4"	ID	AAP	WD	3		U4	8	7		DOUBLE SWING DOOR, TYPE A UNIT, ACCESSIBLE LOCATIONS
U-CL4	CLOSET	6'-0"	6'-8"	1 3/4"	ID	AAPS	WD	3		U5	14	13		BYPASS DOOR, TYPE B UNITS
U-CO1	COAT	2'-6"	6'-8"	1 3/4"	ID	AP	WD	1		U2	8	7		ALL UNIT TYPES
U-UT1	UTILITY	5'-0"	6'-8"	1 3/4"	ID	AAP	WD	3		U4	8	7		DOUBLE SWING DOOR, TYPE A UNIT, ACCESSIBLE LOCATIONS
U-UT2	UTILITY	5'-0"	6'-8"	1 3/4"	ID	AAPS	WD	3		U5	14	13		BYPASS DOOR, TYPE B UNITS

- PROVIDE A ROBE HOOK ON THE DOOR OF BATH ROOMS. HOOK TO FACE SIDE OF TOILET AREA.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- HM = HOLLOW METAL, WD = WOOD, ID = INTERIOR DOOR (WOOD, SOLID CORE)
- SEE SHEET A701 FOR DOOR AND FRAME ELEVATIONS.

TYPICAL RESIDENTIAL UNIT FINISH SCHEDULE

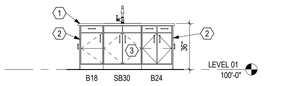
ROOM NAME	FLOOR FINISH	FLOOR COLOR	WALLS FINISH	WALLS COLOR	SPACE DESCRIPTION	KEYED REMARKS
HALL	LV	1	PT	4		
COAT	LV	1	PT	4	APPLIES TO COAT CLOSET	1
LIVING	LV	1	PT	4		
DINING	LV	1	PT	4		
KITCHEN	LV	1	PT	4		3, 4
BEDROOM	LV	1	PT	4	APPLIES TO BEDROOM CLOSETS	2
CLOSET	LV	1	PT	4		
BATH	SV	1	PT	4		5
UTILITY	LV	1	PT	4		2

GENERAL NOTES:

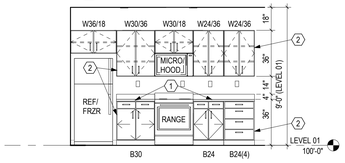
A. REFER TO "FINISH LEGEND" A900 FOR MATERIAL AND COLOR INFORMATION.
B. ALL UNIT INTERIOR DOORS AND DOOR FRAMES TO BE PAINTED PT-1 IN SEMI-GLOSS.
C. ALL WALL BASE WITHIN RESIDENTIAL UNITS TO BE RB-1. WINDOW AND DOOR OPENINGS TO RECEIVE WOOD CASINGS. WINDOWS TO RECEIVE CULTURED MARBLE SILLS.
D. CEILINGS TO BE PAINTED PT-0.
E. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
F. ALL EXTERIOR WINDOWS TO RECEIVE MINI-BLINDS WITH HIDDEN CORDS AS SPECIFIED IN THE PROJECT MANUAL.
G. KITCHEN CABINETS TO BE ADVANTA / NEWBURY SLAB / OR SIMILAR IN EXPRESSO (SINGLE UNITS) AND SLATE (FAMILY UNITS).

KEYED REMARKS:

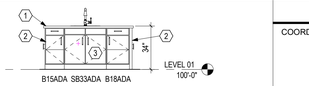
1. COAT ROD AND SHELF SPAN FULL WIDTH OF CLOSET.
2. WIRE SHELVING: TYPE A OR B TO SPAN FULL WIDTH OF CLOSET.
3. KITCHEN COUNTERTOP TO BE PL-2 / KITCHEN CABINETRY TO BE CB-1 (SINGLE UNIT) AND CB-2 (FAMILY UNIT).
4. TYPE A KITCHEN TO HAVE A 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH LENGTH OF BASE CABINETRY. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH.
5. BATH VANITY COUNTERTOP TO BE CULTURED MARBLE / CABINETRY TO BE CB-1 (SINGLE UNIT) AND CB-2 (FAMILY UNIT).



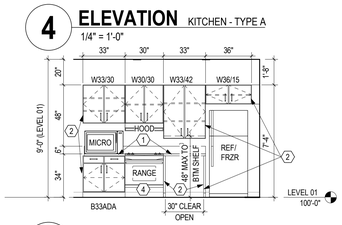
14 ELEVATION KITCHEN - TYPE B
1/4" = 1'-0"



13 ELEVATION KITCHEN - TYPE B
1/4" = 1'-0"



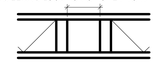
4 ELEVATION KITCHEN - TYPE A
1/4" = 1'-0"



3 ELEVATION KITCHEN - TYPE A
1/4" = 1'-0"

TRUSS OPENING DIAGRAM AT UNITS

COORDINATE SIZE AND LOCATION OF OPENING WITH MECHANICAL



LEGEND - ENLARGED UNIT PLAN

1 HOUR FIRE RATING - INCLUDING BUT NOT LIMITED TO STAIR WALLS, ELEVATOR WALLS, UNIT DEMISING WALLS AND CORRIDOR WALLS

INTERIOR PARTITION

SENSORY (HEARING / VISUALLY IMPAIRED) UNIT - SEE OVERALL FLOOR PLANS FOR LOCATIONS. LOCATE MEP EQUIPMENT AND DEVICES TO MAINTAIN CLEARANCES AS NOTED AND AS DASHED IN FLOOR PLANS. SEE MEP DRAWINGS FOR ADDITIONAL INFO.

ANSI TYPE A UNIT - SEE OVERALL FLOOR PLANS FOR LOCATIONS. LOCATE MEP EQUIPMENT AND DEVICES TO MAINTAIN CLEARANCES AS NOTED AND AS DASHED IN FLOOR PLANS. UNITS TO ALSO INCLUDE SENSORY (HEARING / VISUALLY IMPAIRED) UNIT FEATURES. SEE MEP DRAWINGS FOR ADDITIONAL INFO.

X'-X" PLAN ELEVATION

DIR LV DIRECTION OF INSTALLATION OF LVT FLOORING. SEE FINISH SCHEDULE FOR ADDITIONAL INFO.

X DOOR TYPE

REQUIRED 30"x48" CLEAR FLOOR SPACE - 48" SHALL BE CENTERED AT APPLIANCES AND SINKS

UNOBSTRUCTED CLEARANCE FOR PATH OF ACCESSIBLE MEANS OF EGRESS, MIN. 36" REQUIRED

CODED NOTE LEGEND - ENLARGED UNIT PLANS / ELEVATIONS

SEE TYPICAL PROJECT DETAILS SHEETS FOR ADDITIONAL INFORMATION, INCLUDING ALL MOUNTING HEIGHT REQUIREMENTS.

1. PLAM COUNTER WITH COUNTERTOP METAL SUPPORTS. TOP OF COUNTER AT 36 INCHES A.F.F. IN TYPE B UNIT KITCHENS AND 34 INCHES MAX A.F.F. AT TYPE A UNIT KITCHENS. TYPE A & B VANITY COUNTERS TO BE AT 34 INCHES MAX A.F.F. IN TYPE A UNIT WORK AREAS PROVIDE INTERMEDIATE SUPPORTS & AT TYPE A UNIT SINKS PROVIDE VALANCE.
2. FINISHED END PANEL, TYPICAL.
3. REMOVABLE CABINET FRONT AND BASE AT TYPE A AND TYPE B UNITS. MATCH ADJACENT CABINETRY. SEE GENERAL NOTES.
4. RANGE WITH FRONT-MOUNTED CONTROLS AT TYPE A UNIT KITCHENS. PROVIDE SKIRT AS NEEDED TO MOUNT COOKTOP AT 34 INCHES A.F.F. TO MATCH ADJACENT COUNTERTOP HEIGHT.
5. VANITY MIRROR, FULL WIDTH OF VANITY.
6. TOWEL BAR.
7. ROBE HOOK.
8. SHOWER CURTAIN ROD.
9. PREFABRICATED TUB / SHOWER. SEE PLUMBING PLANS.
10. ROLL-IN SHOWER WITH LINEAR FLOOR DRAIN AT AT TYPE A UNITS ONLY. REFER TO PLUMBING DRAWINGS.
11. GRAB BARS.
12. TOILET PAPER HOLDER.
13. LIGHT FIXTURE. CENTER ABOVE MIRROR, REFER TO ELECTRICAL DRAWINGS.
14. WIRE SHELVING. SEE GENERAL NOTES.
15. FURR OUT EXTERIOR WALL W/ PARTITION TYPE 11J AT LIVING ROOM LOCATION IN UNIT U-108 ONLY. SEE OVERALL PLANS FOR LOCATION.
16. TOWEL RING.
17. MEDICINE CABINET.

GENERAL NOTES - ENLARGED UNIT RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT (INSTALLED DIRECT TO STRUCTURE)
- G2 GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- 2x2 LIGHT FIXTURE
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT (SHADING DENOTES EMERGENCY FIXTURE)
- WALL MOUNTED VANITY LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX | XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS. OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

CODED NOTE LEGEND - ENL. UNIT RCP

1. ALIGN FEATURES
2. OPEN TO ABOVE
3. CENTER FIXTURE ABOVE VANITY, TYPICAL

GENERAL NOTES - ENLARGED UNIT PLANS

A. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
B. WALLS ARE 2x4 WOOD FRAMING U.O.N. SEE SHEET G003 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ADA AND ANSI 2009.
E. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON "TYPICAL UNIT DETAILS" SHEETS. SEE A100 SERIES AND A800 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE "TYPICAL UNIT DETAILS" SHEETS FOR LENGTHS AND LOCATIONS OF GRAB BARS.
F. PROVIDE WOOD BLOCKING NOT SHOWN OR SHOWN AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
G. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
H. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
I. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS.
J. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE TYPICAL PROJECT DETAILS SHEETS FOR REQUIREMENTS.
K. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION, REFER TO PLUMBING DRAWINGS.
L. ALL RESIDENTIAL UNITS TO RECEIVE A PREFABRICATED TUB (TYPE B UNIT AND NON-ACCESSIBLE BATH IN TYPE A UNITS) OR ROLL-IN SHOWER (ACCESSIBLE BATHS IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. SEE PLUMBING INFORMATION. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED TUB/ SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE TYPICAL PROJECT DETAILS FOR LAYOUT OF TUB/ SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED.
M. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
N. RANGES IN TYPE A UNITS ARE DROP IN TYPE- SEE SPECIFICATIONS. PROVIDE CABINET BASE TO MOUNT THE APPLIANCE AS REQUIRED TO ALIGN RANGE TOP WITH TOP OF COUNTERTOP.
O. ALL MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND ALL OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL NOT BE MOUNTED LOWER THAN 18 INCHES A.F.F. AND HIGHER THAN 48 INCHES. SEE TYPICAL PROJECT DETAILS FOR ADDITIONAL MOUNTING REQUIREMENTS.
P. ALL RESIDENTIAL UNIT MICROWAVES (TYPE B UNITS) AND RANGE HOODS (TYPE A UNITS) TO BE DUCTED AND VENTED TO THE EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY STAR AND LEED REQUIREMENTS.
Q. PROVIDE COUNTER TYPE MICROWAVE ON ALL TYPE A UNIT KITCHENS AND MICROWAVE BASE CABINET IN COMMUNITY ROOM KITCHEN.
R. ALL UNIT APPLIANCES ARE INCLUDED, SEE SPECIFICATIONS. UNIT KITCHEN APPLIANCES TO BE BLACK AND ENERGY STAR-RATED.
S. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL. DM 5.3, 5.8
T. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR AN UNOBSTRUCTED REACH. DM 5.3, 5.5; ANSI 1003.9, 1004.9, 309.3, 308
U. ELECTRICAL PANELS ON ALL RESIDENTIAL UNITS SHALL BE INSTALLED SO THAT THE OPERABLE COMPONENTS ARE NOT HIGHER THAN 48 INCHES A.F.F OR LOWER THAN 1 FEET, 6 INCHES A.F.F.
V. AT TYPE A UNITS, THE LOCATION OF CONTROLS FOR THE OVEN AND RANGE MUST NOT REQUIRE REACHING ACROSS THE BURNERS. ANSI 1003.12.5.4.4, 1003.12.5.5.4. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS.
W. KITCHEN SINKS AT TYPE A UNITS AND COMMUNITY ROOM KITCHEN SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6-1/2 INCHES.
X. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
Y. WHERE REQUIRED, INSTALL ANY MEP DEVICES/ FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
Z. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINETS SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
AA. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
BB. SEE "TYPICAL PROJECT DETAILS" SHEETS AND SHEET A900 FOR EXTENT OF FINISHES AT ALL UNIT ENTRANCES.
CC. UNIT FURNITURE IN CONTRACT. SEE FF&E DRAWINGS FOR ADDITIONAL INFO.
DD. PROVIDE ONE MIRROR AND ONE MEDICINE CABINET FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE TYPICAL PROJECT DETAILS SHEETS FOR MOUNTING HEIGHTS REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
EE. SEE TYPICAL PROJECTS DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER MOUNTING DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
FF. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
GG. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
HH. WIRE SHELVING REQUIREMENTS SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: **BEDROOM CLOSET** (1 SHELF AND ROD FIXED), **COAT CLOSET** (1 SHELF AND ROD FIXED), **UTILITY** (1 SHELF FIXED). SEE TYPICAL PROJECT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
II. ALL RESIDENTIAL UNITS TO RECEIVE PLASTIC LAMINATE KITCHEN AND VANITY COUNTERTOPS WITH DROP-IN SINKS. COMMUNITY ROOM KITCHEN TO RECEIVE QUARTZ COUNTERTOPS.
JJ. IN TYPE A UNITS AND PUBLIC AREAS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH / TOILET SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
KK. AT TYPE A UNITS AND PUBLIC AREAS WITH TOP SET BACKSPLASH, 1 INCH THICK SQUARE EDGE, RECEPTACLES TO BE LOCATED HORIZONTALLY ON FACE OF BACKSPLASH. BACKSPLASH TO BE 6 INCHES HIGH AT THESE LOCATIONS. AT TYPE A UNIT COUNTERTOPS WITHOUT BACKSPLASH, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NOT HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE TYPICAL PROJECT DETAILS SHEETS.
LL. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCP'S. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
ENLARGED UNIT PLANS - 2-BEDROOM UNITS

APRIL 4, 2022

DRAWN BY: XXX | CHECKED BY: XXX

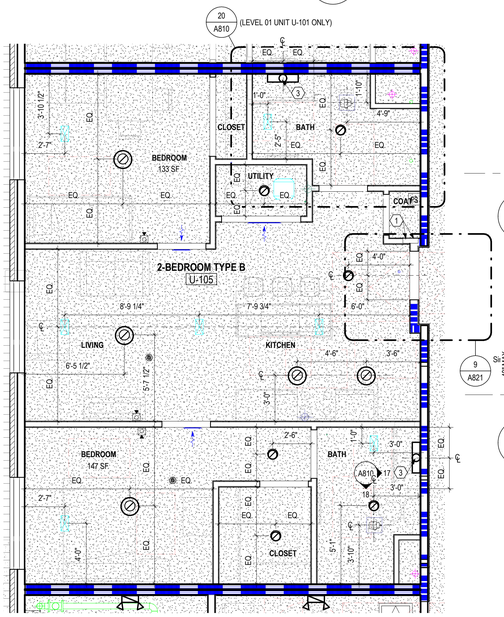
Proj. #20643

A810

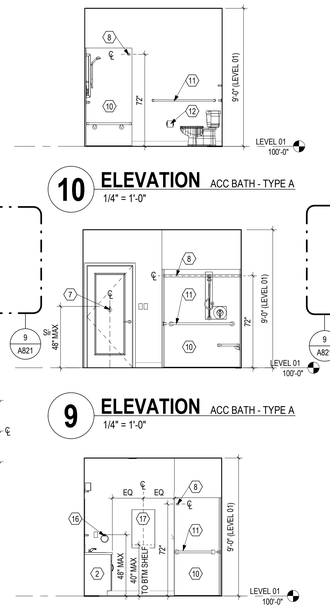
PERMIT & BID SET

STATE OF OHIO — JAY W BOONE — 10740 — REGISTERED ARCHITECT
JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

PRINT DATE: 4/1/2022 10:32:09 AM
FILE INFO: C:\$$Local Revit Projects\2021 Projects\20643 Harriets Hope PSH - ARCH_RKnaMPRGQ.rvt



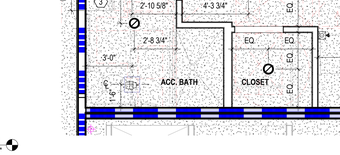
12 RCP 2-BEDROOM ENLARGED UNIT - ANSI TYPE B
1/4" = 1'-0"



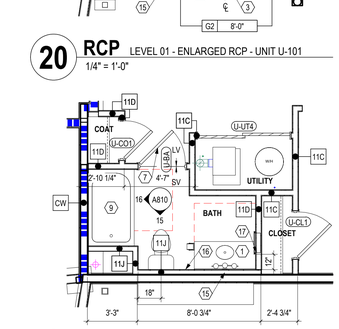
10 ELEVATION ACC BATH - TYPE A
1/4" = 1'-0"

9 ELEVATION ACC BATH - TYPE A
1/4" = 1'-0"

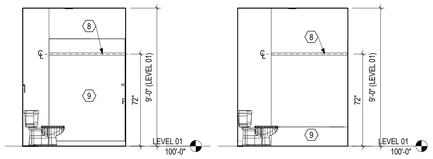
8 ELEVATION ACC BATH - TYPE A
1/4" = 1'-0"



2 RCP 2-BEDROOM ENLARGED UNIT - ANSI TYPE A
1/4" = 1'-0"

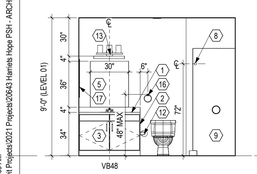


19 PLAN LEVEL 01 - ENLARGED PLAN - UNIT U-101
1/4" = 1'-0"

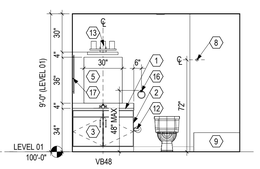


18 ELEVATION BATH - TYPE B
1/4" = 1'-0"

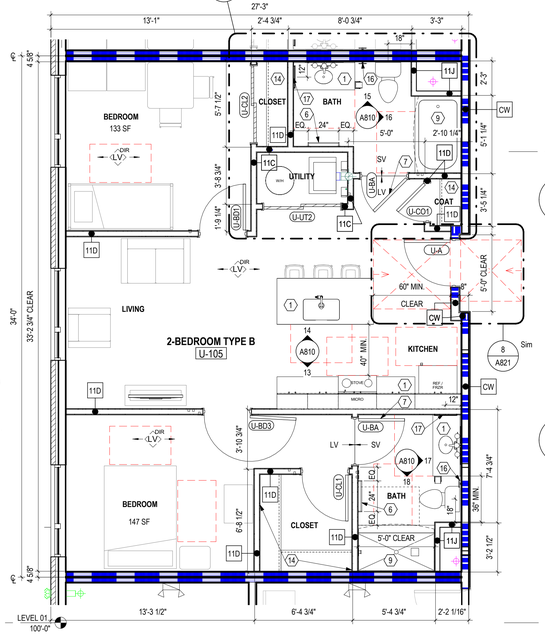
16 ELEVATION BATH - TYPE B
1/4" = 1'-0"



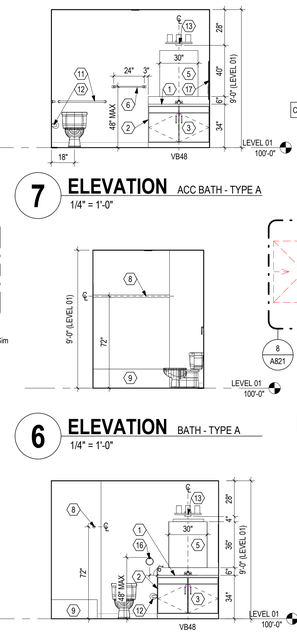
17 ELEVATION BATH - TYPE B
1/4" = 1'-0"



15 ELEVATION BATH - TYPE B
1/4" = 1'-0"



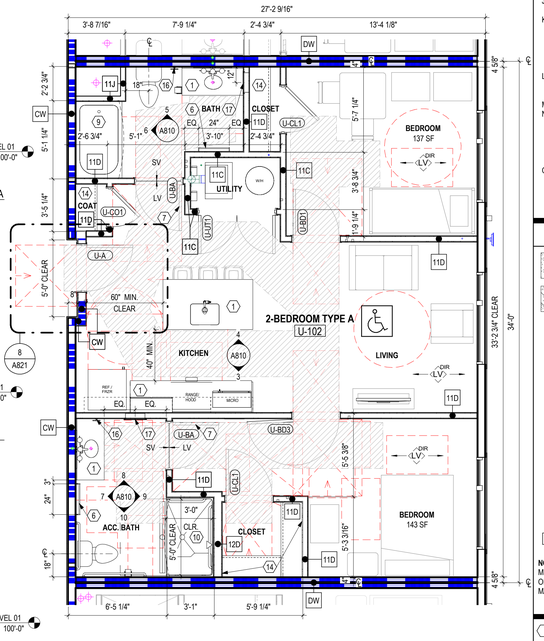
11 PLAN 2-BEDROOM ENLARGED UNIT - ANSI TYPE B
1/4" = 1'-0"



7 ELEVATION ACC BATH - TYPE A
1/4" = 1'-0"

6 ELEVATION BATH - TYPE A
1/4" = 1'-0"

5 ELEVATION BATH - TYPE A
1/4" = 1'-0"



1 PLAN 2-BEDROOM ENLARGED UNIT - ANSI TYPE A
1/4" = 1'-0"

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TYPICAL RESIDENTIAL DOOR SCHEDULE

MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS - SHEET A710 HEAD	DETAILS - SHEET A710 JAMB	DETAILS - SHEET A710 SILL	REMARKS
U-A	UNIT ENTRY	3'-0"	6'-8"	1 3/4"	ID	AP	HM	1	20 MIN	U1	10	9		UNIT ENTRANCE DOOR, ALL UNIT TYPES
U-BA	BATHROOM	3'-0"	6'-8"	1 3/4"	ID	AP	WD	1		U3	8	7		ALL UNIT TYPES, ALL BATH LOCATIONS
U-BD1	BEDROOM	3'-0"	6'-8"	1 3/4"	ID	AP	WD	1		U3	8	7		ALL UNIT TYPES, 90 DEGREE DOOR SWING
U-BD2	BEDROOM	3'-0"	6'-8"	1 3/4"	ID	AP	WD	1		U3	8	7		ALL UNIT TYPES, 140 DEGREE DOOR SWING
U-BD3	BEDROOM	3'-0"	6'-8"	1 3/4"	ID	AP	WD	1		U3	8	7		ALL UNIT TYPES, 180 DEGREE DOOR SWING
U-CL1	CLOSET	3'-0"	6'-8"	1 3/4"	ID	AP	WD	1		U2	8	7		SINGLE SWING DOOR, TYPE A UNIT, ACCESSIBLE LOCATIONS, U.N.O.
U-CL2	CLOSET	5'-0"	6'-8"	1 3/4"	ID	AAPS	WD	3		U5	14	13		BYPASS DOOR, TYPE B UNITS
U-CL3	CLOSET	5'-0"	6'-8"	1 3/4"	ID	AAP	WD	3		U4	8	7		DOUBLE SWING DOOR, TYPE A UNIT, ACCESSIBLE LOCATIONS
U-CL4	CLOSET	6'-0"	6'-8"	1 3/4"	ID	AAPS	WD	3		U5	14	13		BYPASS DOOR, TYPE B UNITS
U-CO1	COAT	2'-6"	6'-8"	1 3/4"	ID	AP	WD	1		U2	8	7		ALL UNIT TYPES
U-UT1	UTILITY	5'-0"	6'-8"	1 3/4"	ID	AAP	WD	3		U4	8	7		DOUBLE SWING DOOR, TYPE A UNIT, ACCESSIBLE LOCATIONS
U-UT2	UTILITY	5'-0"	6'-8"	1 3/4"	ID	AAPS	WD	3		U5	14	13		BYPASS DOOR, TYPE B UNITS

- PROVIDE A ROBE HOOK ON THE DOOR OF BATH ROOMS. HOOK TO FACE SIDE OF TOILET AREA.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- HM = HOLLOW METAL; WD = WOOD; ID = INTERIOR DOOR (WOOD, SOLID CORE)
- SEE SHEET A701 FOR DOOR AND FRAME ELEVATIONS.

TYPICAL RESIDENTIAL UNIT FINISH SCHEDULE

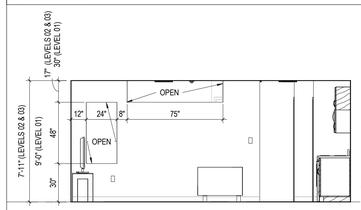
ROOM NAME	FLOOR FINISH	FLOOR COLOR	WALLS FINISH	WALLS COLOR	SPACE DESCRIPTION	KEYED REMARKS
HALL	LV	1	PT	4		
COAT	LV	1	PT	4	APPLIES TO COAT CLOSET	1
LIVING	LV	1	PT	4		
DINING	LV	1	PT	4		
KITCHEN	LV	1	PT	4		3, 4
BEDROOM	LV	1	PT	4	APPLIES TO BEDROOM CLOSETS	2
CLOSET	LV	1	PT	4		
BATH	SV	1	PT	4		5
UTILITY	LV	1	PT	4		2

GENERAL NOTES:

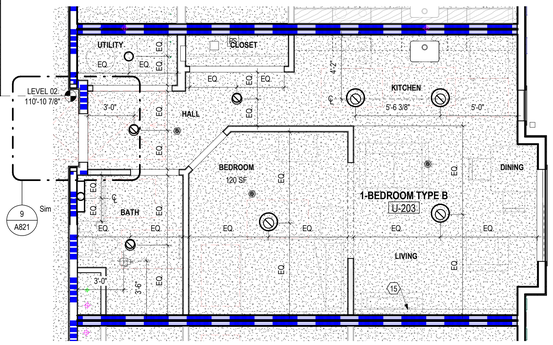
A. REFER TO "FINISH LEGEND" A900 FOR MATERIAL AND COLOR INFORMATION.
B. ALL UNIT INTERIOR DOORS AND DOOR FRAMES TO BE PAINTED PT-1 IN SEMI-GLOSS.
C. ALL WALL BASE WITHIN RESIDENTIAL UNITS TO BE RB-1. WINDOW AND DOOR OPENINGS TO RECEIVE WOOD CASINGS. WINDOWS TO RECEIVE CULTURED MARBLE SILLS.
D. CEILINGS TO BE PAINTED PT-6.
E. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
F. ALL EXTERIOR WINDOWS TO RECEIVE MINI-BLINDS WITH HIDDEN CORDS AS SPECIFIED IN THE PROJECT MANUAL.
G. KITCHEN CABINETS TO BE ADVANTA / NEWBURY SLAB / OR SIMILAR IN EXPRESSO (SINGLE UNITS) AND SLATE (FAMILY UNITS).

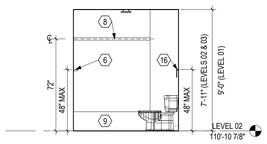
KEYED REMARKS:

1. COAT ROD AND SHELF SPAN FULL WIDTH OF CLOSET.
2. WIRE SHELVING: TYPE A OR B TO SPAN FULL WIDTH OF CLOSET.
3. KITCHEN COUNTERTOP TO BE PL-2 / KITCHEN CABINETRY TO BE CB-1 (SINGLE UNIT) AND CB-2 (FAMILY UNIT).
4. TYPE A KITCHEN TO HAVE A 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH LENGTH OF BASE CABINETRY. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH.
5. BATH VANITY COUNTERTOP TO BE CULTURED MARBLE / CABINETRY TO BE CB-1 (SINGLE UNIT) AND CB-2 (FAMILY UNIT).

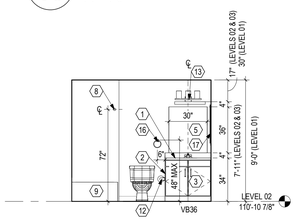


14 ELEVATION LIVING/BEDROOM WALL
1/4" = 1'-0"

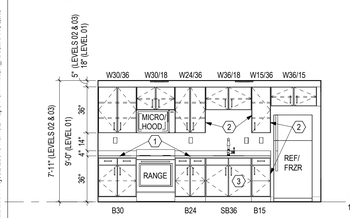




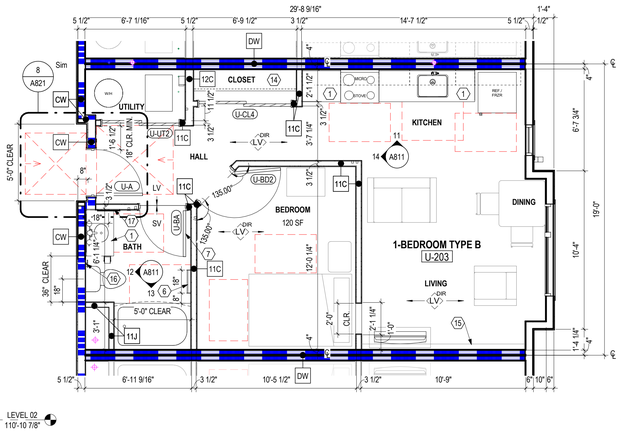
13 ELEVATION BATH - TYPE B
1/4" = 1'-0"



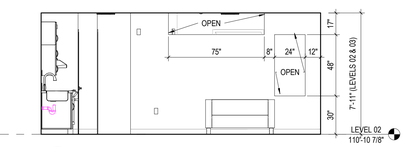
12 ELEVATION BATH - TYPE B
1/4" = 1'-0"



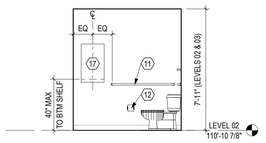
11 ELEVATION KITCHEN - TYPE B
1/4" = 1'-0"



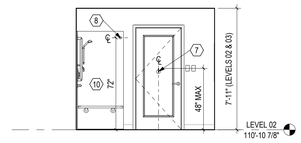
10 RCP 1-BEDROOM ENLARGED RCP - TYPE B
1/4" = 1'-0"



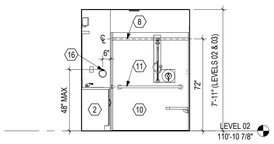
8 ELEVATION LIVING/BEDROOM WALL
1/4" = 1'-0"



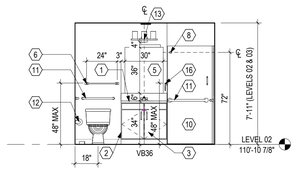
7 ELEVATION ACC BATH - TYPE A
1/4" = 1'-0"



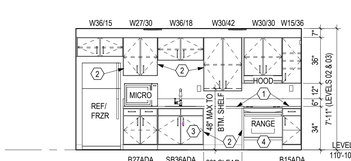
6 ELEVATION ACC BATH - TYPE A
1/4" = 1'-0"



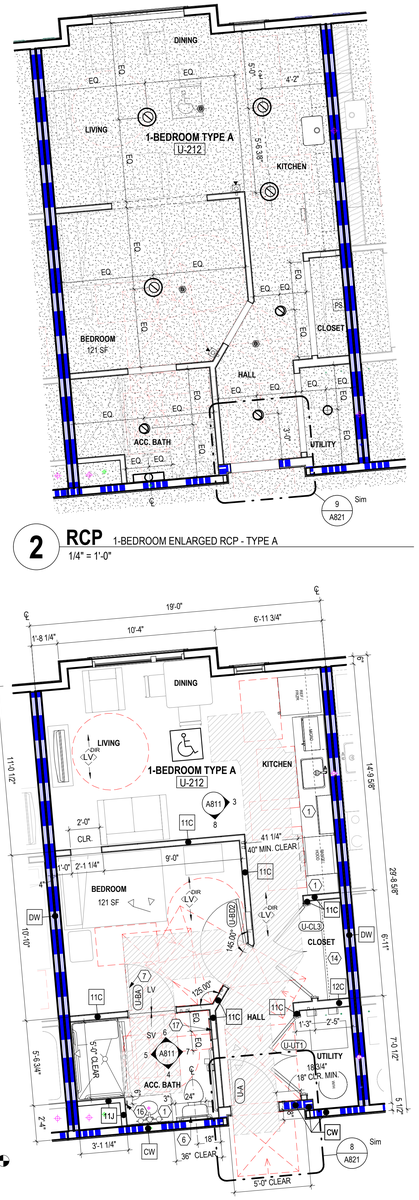
5 ELEVATION ACC BATH - TYPE A
1/4" = 1'-0"



4 ELEVATION ACC BATH - TYPE A
1/4" = 1'-0"



3 ELEVATION KITCHEN - TYPE A
1/4" = 1'-0"

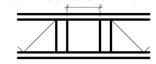


2 RCP 1-BEDROOM ENLARGED RCP - TYPE A
1/4" = 1'-0"

1 PLAN 1-BEDROOM ENLARGED UNIT- TYPE A
1/4" = 1'-0"

TRUSS OPENING DIAGRAM AT UNITS

COORDINATE SIZE AND LOCATION OF OPENING WITH MECHANICAL



LEGEND - ENLARGED UNIT PLAN

1 HOUR FIRE RATING - INCLUDING BUT NOT LIMITED TO STAIR WALLS, ELEVATOR WALLS, UNIT DEMISING WALLS AND CORRIDOR WALLS

INTERIOR PARTITION

SENSORY (HEARING / VISUALLY IMPAIRED) UNIT - SEE OVERALL FLOOR PLANS FOR LOCATIONS. LOCATE MEP EQUIPMENT AND DEVICES TO MAINTAIN CLEARANCES AS NOTED AND AS DASHED IN FLOOR PLANS. SEE MEP DRAWINGS FOR ADDITIONAL INFO.

ANSI TYPE A UNIT - SEE OVERALL FLOOR PLANS FOR LOCATIONS. LOCATE MEP EQUIPMENT AND DEVICES TO MAINTAIN CLEARANCES AS NOTED AND AS DASHED IN FLOOR PLANS. UNITS TO ALSO INCLUDE SENSORY (HEARING / VISUALLY IMPAIRED) UNIT FEATURES. SEE MEP DRAWINGS FOR ADDITIONAL INFO.

X'-X" PLAN ELEVATION

DIR LV DIRECTION OF INSTALLATION OF LVT FLOORING. SEE FINISH SCHEDULE FOR ADDITIONAL INFO.

X DOOR TYPE

REQUIRED 30"x48" CLEAR FLOOR SPACE - 48" SHALL BE CENTERED AT APPLIANCES AND SINKS

UNOBSTRUCTURED CLEARANCE FOR PATH OF ACCESSIBLE MEANS OF EGRESS, MIN. 36" REQUIRED

CODED NOTE LEGEND - ENLARGED UNIT PLANS / ELEVATIONS

SEE TYPICAL PROJECT DETAILS SHEETS FOR ADDITIONAL INFORMATION, INCLUDING ALL MOUNTING HEIGHT REQUIREMENTS.

1. PLAM COUNTER WITH COUNTERTOP METAL SUPPORTS. TOP OF COUNTER AT 36 INCHES A.F.F. IN TYPE B UNIT KITCHENS AND 34 INCHES MAX A.F.F. AT TYPE A UNIT KITCHENS. TYPE A & B VANITY COUNTERS TO BE AT 34 INCHES MAX A.F.F. IN TYPE A UNIT WORK AREAS PROVIDE INTERMEDIATE SUPPORTS & AT TYPE A UNIT SINKS PROVIDE VALANCE.
2. FINISHED END PANEL, TYPICAL.
3. REMOVABLE CABINET FRONT AND BASE AT TYPE A AND TYPE B UNITS. MATCH ADJACENT CABINETRY. SEE GENERAL NOTES.
4. RANGE WITH FRONT-MOUNTED CONTROLS AT TYPE A UNIT KITCHENS. PROVIDE SKIRT AS NEEDED TO MOUNT COOKTOP AT 34 INCHES A.F.F. TO MATCH ADJACENT COUNTERTOP HEIGHT.
5. VANITY MIRROR, FULL WIDTH OF VANITY.
6. TOWEL BAR.
7. ROBE HOOK.
8. SHOWER CURTAIN ROD.
9. PREFABRICATED TUB / SHOWER. SEE PLUMBING PLANS.
10. ROLL-IN SHOWER WITH LINEAR FLOOR DRAIN AT AT TYPE A UNITS ONLY. REFER TO PLUMBING DRAWINGS.
11. GRAB BARS.
12. TOILET PAPER HOLDER.
13. LIGHT FIXTURE. CENTER ABOVE MIRROR, REFER TO ELECTRICAL DRAWINGS.
14. WIRE SHELVING. SEE GENERAL NOTES.
15. FURR OUT EXTERIOR WALL W/ PARTITION TYPE 11J AT LIVING ROOM LOCATION IN UNIT U-108 ONLY. SEE OVERALL PLANS FOR LOCATION.
16. TOWEL RING.
17. MEDICINE CABINET.

GENERAL NOTES - ENLARGED UNIT RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES AND GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS AND CEILINGS TO BE PAINTED FLAT CEILING WHITE (U.N.O.).
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2X WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR THE REQUIRED ELECTRICAL DEVICES. FIRST AND SECOND FLOOR REFLECTED CEILING PLANS SHOW GENERAL LOCATION OF CANS IN THE PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. PROVIDE A RATED ACCESS PANEL AT ALL SMOKE DAMPER LOCATIONS. COORDINATE FINAL LOCATIONS WITH ARCHITECT. PROVIDE ONE ACCESS PANEL PER FLOOR AT ALL SHAFT LOCATIONS. ACCESS PANEL TO BE ON THE PUBLIC CORRIDOR SIDE. ON OPEN/ UNOCCUPIED SHAFT ENCLOSURES PROVIDE ONE RATED ACCESS PANEL PER FLOOR FOR FUTURE INSTALLATION OF MECHANICAL SYSTEMS.
O. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT (INSTALLED DIRECT TO STRUCTURE)
- G2 GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- 2x2 LIGHT FIXTURE
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT (SHADING DENOTES EMERGENCY FIXTURE)
- WALL MOUNTED VANITY LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

CODED NOTE LEGEND - ENL. UNIT RCP

1. ALIGN FEATURES
2. OPEN TO ABOVE
3. CENTER FIXTURE ABOVE VANITY, TYPICAL

GENERAL NOTES - ENLARGED UNIT PLANS

A. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
B. WALLS ARE 2x4 WOOD FRAMING U.N.O. SEE SHEET G003 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ADA AND ANSI 2009.
E. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON "TYPICAL UNIT DETAILS" SHEETS. SEE A100 SERIES AND A800 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE "TYPICAL UNIT DETAILS" SHEETS FOR LENGTHS AND LOCATIONS OF GRAB BARS.
F. PROVIDE WOOD BLOCKING NOT SHOWN OR SHOWN AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
G. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
H. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
I. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS.
J. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE TYPICAL PROJECT DETAILS SHEETS FOR REQUIREMENTS.
K. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION, REFER TO PLUMBING DRAWINGS.
L. ALL RESIDENTIAL UNITS TO RECEIVE A PREFABRICATED TUB (TYPE B UNIT AND NON-ACCESSIBLE BATH IN TYPE A UNITS) OR ROLL-IN SHOWER (ACCESSIBLE BATHS IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. SEE PLUMBING INFORMATION. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED TUB/ SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE TYPICAL PROJECT DETAILS FOR LAYOUT OF TUB/ SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED.
M. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
N. RANGES IN TYPE A UNITS ARE DROP IN TYPE- SEE SPECIFICATIONS. PROVIDE CABINET BASE TO MOUNT THE APPLIANCE AS REQUIRED TO ALIGN RANGE TOP WITH TOP OF COUNTERTOP.
O. ALL MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND ALL OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL NOT BE MOUNTED LOWER THAN 18 INCHES AFF AND HIGHER THAN 48 INCHES. SEE TYPICAL PROJECT DETAILS FOR ADDITIONAL MOUNTING REQUIREMENTS.
P. ALL RESIDENTIAL UNIT MICROWAVES (TYPE B UNITS) AND RANGE HOODS (TYPE A UNITS) TO BE DUCTED AND VENTED TO THE EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY STAR AND LEED REQUIREMENTS.
Q. PROVIDE COUNTER TYPE MICROWAVE ON ALL TYPE A UNIT KITCHENS AND MICROWAVE BASE CABINET IN COMMUNITY ROOM KITCHEN.
R. ALL UNIT APPLIANCES ARE INCLUDED, SEE SPECIFICATIONS. UNIT KITCHEN APPLIANCES TO BE BLACK AND ENERGY STAR-RATED.
S. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL. DM 5.3, 5.8
T. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR AN UNOBSTRUCTED REACH. DM 5.3, 5.5; ANSI 1003.9, 1004.3, 309.3, 308
U. ELECTRICAL PANELS ON ALL RESIDENTIAL UNITS SHALL BE INSTALLED SO THAT THE OPERABLE COMPONENTS ARE NOT HIGHER THAN 48 INCHES A.F.F OR LOWER THAN 1 FEET, 6 INCHES A.F.F.
V. AT TYPE A UNITS, THE LOCATION OF CONTROLS FOR THE OVEN AND RANGE MUST NOT REQUIRE REACHING ACROSS THE BURNERS. ANSI 1003.12.5.4.4, 1003.12.5.5.4. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS.
W. KITCHEN SINKS AT TYPE A UNITS AND COMMUNITY ROOM KITCHEN SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6-1/2 INCHES.
X. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
Y. WHERE REQUIRED, INSTALL ANY MEP DEVICES/ FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
Z. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINETS SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
AA. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
BB. SEE "TYPICAL PROJECT DETAILS" SHEETS AND SHEET A900 FOR EXTENT OF FINISHES AT ALL UNIT ENTRANCES.
CC. UNIT FURNITURE IN CONTRACT. SEE FF&E DRAWINGS FOR ADDITIONAL INFO.
DD. PROVIDE ONE MIRROR AND ONE MEDICINE CABINET FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS. TYPICAL SEE TYPICAL PROJECT DETAILS SHEETS FOR MOUNTING HEIGHTS REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
EE. SEE TYPICAL PROJECT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER MOUNTING DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
FF. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
GG. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
HH. WIRE SHELVING REQUIREMENTS SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS - **BEDROOM CLOSET** (1 SHELF AND ROD FIXED), **COAT CLOSET** (1 SHELF AND ROD FIXED), **UTILITY** (1 SHELF FIXED). SEE TYPICAL PROJECT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
II. ALL RESIDENTIAL UNITS TO RECEIVE PLASTIC LAMINATE KITCHEN AND VANITY COUNTERTOPS WITH DROP-IN SINKS. COMMUNITY ROOM KITCHEN TO RECEIVE QUARTZ COUNTERTOPS.
JJ. IN TYPE A UNITS AND PUBLIC AREAS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH / TOILET SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
KK. AT TYPE A UNITS AND PUBLIC AREAS WITH TOP SET BACKSPLASH, 1 INCH THICK SQUARE EDGE, RECEPTACLES TO BE LOCATED HORIZONTALLY ON FACE OF BACKSPLASH, BACKSPLASH TO BE 6 INCHES HIGH AT THESE LOCATIONS. AT TYPE A UNIT COUNTERTOPS WITHOUT BACKSPLASH, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NOT HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE TYPICAL PROJECT DETAILS SHEETS.
LL. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCP'S. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
ENLARGED UNIT PLANS - 1-BEDROOM UNITS

STATE OF OHIO — JAY W BOONE — 10740 — REGISTERED ARCHITECT
JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022
DRAWN BY: XXX | CHECKED BY: XXX
Proj. #20643
A811
PERMIT & BID SET

PRINT DATE: 4/1/2022 10:32:17 AM
FILE INFO: C:\$$Local Revit Projects\2021 Projects\20643 Hannals Hope FSH - ARCH_RKrall.RVT

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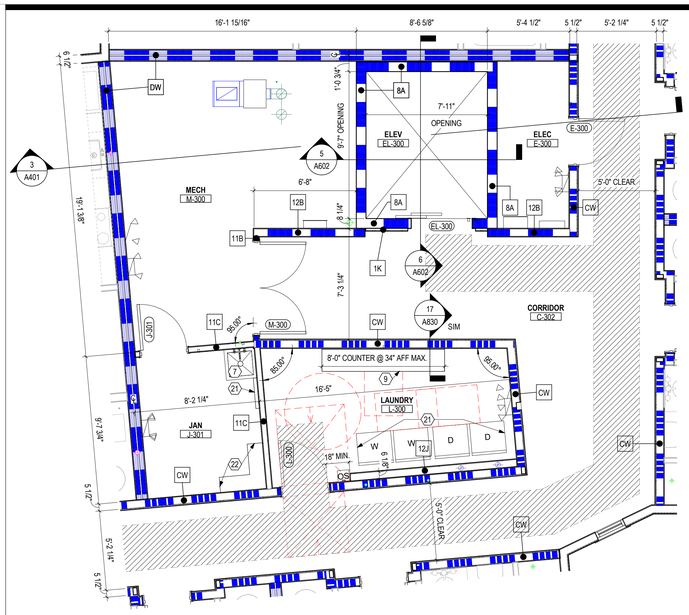
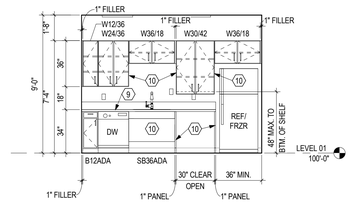
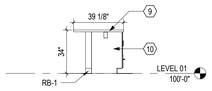


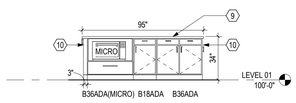
13 ENLARGED PLAN — TYPICAL RESIDENTIAL FLOOR ELEVATOR CORE
1/4" = 1'-0" REF: 1 / A102



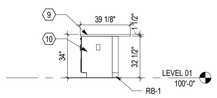
12 ELEVATION — COMMUNITY ROOM KITCHEN
1/4" = 1'-0"



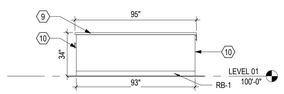
11 ELEVATION — COMMUNITY KITCHEN ISLAND - WEST
1/4" = 1'-0" REF: 1 / A1.0



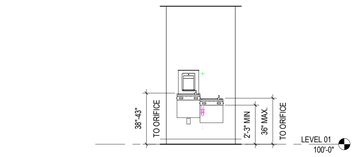
10 ELEVATION — COMMUNITY KITCHEN ISLAND - SOUTH
1/4" = 1'-0" REF: 1 / A1.0



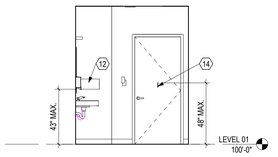
9 ELEVATION — COMMUNITY KITCHEN ISLAND - EAST
1/4" = 1'-0" REF: 1 / A1.0



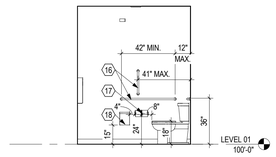
8 ELEVATION — COMMUNITY KITCHEN ISLAND - NORTH
1/4" = 1'-0" REF: 1 / A1.0



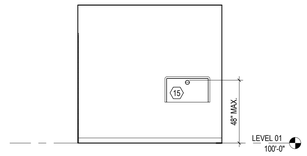
7 ELEVATION — DRINKING FOUNTAIN
1/4" = 1'-0"



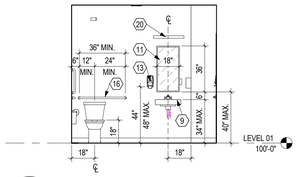
5 ELEVATION — PUBLIC TOILET - DOOR
1/4" = 1'-0"



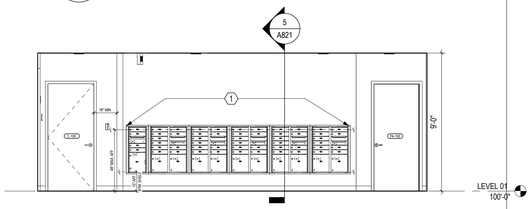
3 ELEVATION — PUBLIC TOILET - TOILET
1/4" = 1'-0"



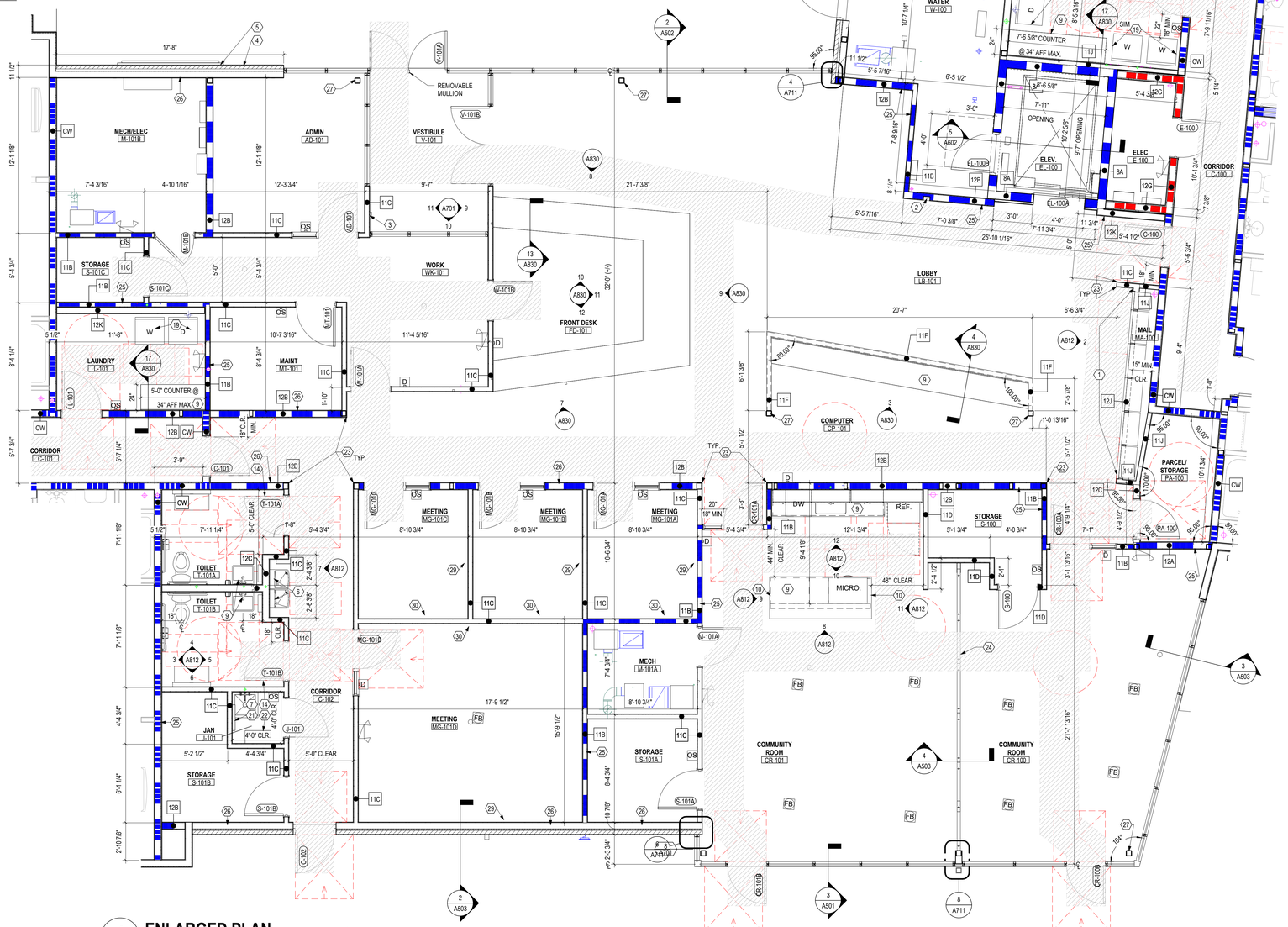
6 ELEVATION — PUBLIC TOILET - CHANGING TABLE
1/4" = 1'-0"



4 ELEVATION — PUBLIC TOILET - SINK
1/4" = 1'-0"



2 ELEVATION — MAIL KIOSK
1/4" = 1'-0"



1 ENLARGED PLAN — LEVEL 01 - ENLARGED PLAN - AMENITY
1/4" = 1'-0" REF: 1 / A101

PRINT DATE: 4/1/2022 10:32:26 AM
FILE INFO: C:\$$Local Revit Projects\2021 Projects\20643 Harriets Hope FSH - ARCH_RKnoll\APRSQ.rvt

GENERAL NOTES - ENLARGED PLANS

A. COMMUNITY ROOM KITCHEN APPLIANCES TO BE FINGERPRINT-FREE STAINLESS STEEL.
B. PROVIDE AND INSTALL GARBAGE DISPOSAL AT COMMUNITY ROOM KITCHEN SINK.
C. PROVIDE WOOD BLOCKING NOT SHOWN OR SHOWN AS REQUIRED TO MOUNT MARKERBOARDS, TACKBOARDS AND TELEVISIONS WHERE REQUIRED.

CODED NOTE LEGEND

SEE TYPICAL PROJECT DETAILS SHEETS FOR ADDITIONAL INFORMATION, INCLUDING ALL MOUNTING HEIGHT REQUIREMENTS.

1. METAL MAILBOXES AND PARCEL BOXES AS SHOWN IN FLOORS PLANS. DESIGN BASED ON THE MAILBOX WORKS OR EQUAL. PROVIDE ONE MAILBOX PER UNIT AND ONE PARCEL BOX PER EVERY FIVE MAILBOXES. BOTTOM OF UNIT SHALL NOT BE MOUNTED LOWER THAN 15 INCHES AFF AND TOP OF THE HIGHEST KEY HOLE SHALL NOT BE MOUNTED HIGHER THAN 48 INCHES AFF. SEE DETAIL FOR MORE INFORMATION.
2. INSTALL SEMI-RECESSED FIRE EXTINGUISHERS CABINETS SO THE INTEGRITY OF THE RATED WALL IS MAINTAINED. PROVIDE RATED CABINTES AT RATED WALL LOCATIONS.
3. SEMI-RECESSED AIPHONE. COORDINATE EXACT LOCATION WITH ARCHITECT AND MOUNT NO HIGHER THAN 4 FEET AFF. SEE ELECTRICAL INFORMATION.
4. KNOX BOX- COORDINATE FINAL LOCATION WITH FIRE DEPARTMENT.
5. NOT USED.
6. DRINKING FOUNTAIN. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
7. JANITOR'S SINK. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
8. FIRE DEPARTMENT CONNECTION. SEE FIRE PROTECTION AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
9. TOP OF COUNTERTOPS AND SINK RIM TO BE AT 34 INCHES MAXIMUM AFF AT PUBLIC KITCHENS AND TOILETS. PROVIDE AND INSTALL QUARTZ COUNTER WITH COUNTERTOP METAL SUPPORTS IN KITCHENS AND PUBLIC COUNTER AREAS. PROVIDE AND INSTALL WALL HUNG PORCELAIN SINK WITH METAL SUPPORTS IN PUBLIC TOILETS. IN ALL PUBLIC AREAS WORK SPACES, PROVIDE INTERMEDIATE SUPPORTS AND AT ALL PUBLIC SINKS PROVIDE VALANCE OR PLUMBING PROTECTION/ WRAP.
10. FINISHED END PANEL, TYPICAL.
11. WALL MOUNTED MIRROR. SIZE NOTED ON ELEVATION.
12. PAPER TOWEL DISPENSER.
13. SOAP DISPENSER.
14. ROBE HOOK ON TOILET ROOM DOORS. HOOK TO FACE SIDE OF TOILET AREA.
15. CHANGING TABLE.
16. GRAB BARS.
17. TOILET PAPER HOLDER.
18. SANITARY NAPKIN DISPOSAL.
19. FRONT-LOADING WASHER AND DRYER EQUIPMENT. PROVIDE PEDESTAL AS NEEDED TO PROVIDE CONTROLS THAT ARE WITHIN ACCESSIBLE REACH RANGES. ALL CLOTHES WASHERS TO BE ENERGY STAR-RATED.
20. LIGHT FIXTURE. CENTER ABOVE MIRROR. REFER TO ELECTRICAL DRAWINGS.
21. MOP STRIP.
22. JANITOR CLOSET SHELVES.
23. CORNER GUARDS, TYPICAL.
24. CENTER TWO SECTIONS (2) OF FOLDING PARTITION WALL TO INCLUDE FULL HEIGHT MARKER/ TACK BOARD. ALL OTHER SECTIONS TO BE CARPET.
25. EXTEND 1 HR FIRE BARRIER TO FLOOR SHEATHING ABOVE.
26. 1 HR FIRE RATED BEARING WALL - ONLY STRUCTURE NEEDS RATED.
27. PAINT EXPOSED STL. COLUMN.
28. PROJECTION OF FLOOR ABOVE (DASHED)
29. 48" x 96" WHITEBOARD, TYPICAL. SEE SPECIFICATIONS.
30. 48" X 48" TACKBOARD, TYPICAL. SEE SPECIFICATIONS.

LEGEND - FLOOR PLAN

- 2 HR FIRE RATED WALLS
- 1 HR FIRE RATING - INCLUDING BUT NOT LIMITED TO STAIR WALLS, ELEVATOR WALLS AND UNIT DEMISING WALLS.
- 1 HR FIRE RATED CORRIDOR WALLS
- INTERIOR PARTITION
- X'-X" PLAN ELEVATION
- F.E.C. SEMI-RECESSED, RATED FIRE EXTINGUISHER CABINET (F.E.C.) AND FIRE EXTINGUISHER. UNIT SHALL NOT ENCROACH MORE THAN 4" INTO THE PATH OF EGRESS.
- LV DIR. DIRECTION OF INSTALLATION OF LVT FLOORING. SEE A900 SERIES SHEETS FOR FINISH SCHEDULE.
- X DOOR TYPE
- REQUIRED 30"x48" CLEAR FLOOR SPACE - 48" SHALL BE CENTERED AT APPLIANCES AND SINKS
- ACCESSIBLE ROUTE, MINIMUM 36" CLEAR

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR:
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
ENLARGED PLANS - COMMON AREAS

STATE OF OHIO — JAY W BOONE — 10740 — REGISTERED ARCHITECT
JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022
DRAWN BY: XXX CHECKED BY: XXX
Proj. #20643
A812
PERMIT & BID SET

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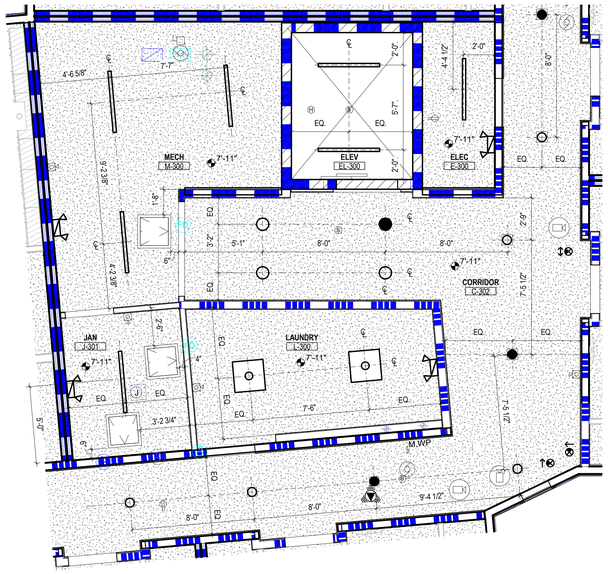

2 RCP TYPICAL RESIDENTIAL FLOOR ELEVATOR CORE
1/4" = 1'-0"

1 RCP LEVEL 01 - ENLARGED PLAN - AMENITY
1/4" = 1'-0"

GENERAL NOTES - RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).
D. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, UNLESS NOTED OTHERWISE OR DIMENSIONED.
F. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).
G. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
J. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2" RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES, U.N.O. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE RATED CEILING ASSEMBLY. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
L. COORDINATE FINAL SOFFIT LOCATIONS WITH ARCHITECT.
M. SEE ELECTRICAL DRAWINGS FOR THE REQUIRED ELECTRICAL DEVICES. RCP'S SHOW GENERAL LOCATION OF LIGHTING IN CORRIDORS.
N. INSTALL AND PROVIDE A RATED ACCESS PANEL AT ALL SMOKE DAMPER LOCATIONS. COORDINATE FINAL LOCATIONS WITH ARCHITECT.

CODED NOTE LEGEND

1. ALIGN FEATURES
2. OPEN TO ABOVE
3. PREFINISHED ALUM SOFFIT - SOLID

RCP LEGEND

- AL1 PREFINISHED ALUM SOFFIT - SOLID
- E1 EXPOSED STRUCTURE ABOVE
- G1 GYPSUM BOARD CEILING OR SOFFIT (INSTALLED DIRECT TO STRUCTURE)
- G2 GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- 2x2 LIGHT FIXTURE
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT (SHADING DENOTES EMERGENCY FIXTURE)
- WALL MOUNTED VANITY LIGHT
- WALL MOUNTED EXTERIOR LIGHT
- EMERGENCY LIGHT
- EXIT LIGHT WITH DIRECTIONAL ARROW
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL (FIRE RATED)
- XX XX-XX" — CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
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DRAWING TITLE:
ENLARGED RCP - COMMON AREAS

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JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022
DRAWN BY: XXX | CHECKED BY: XXX
Proj. #20643
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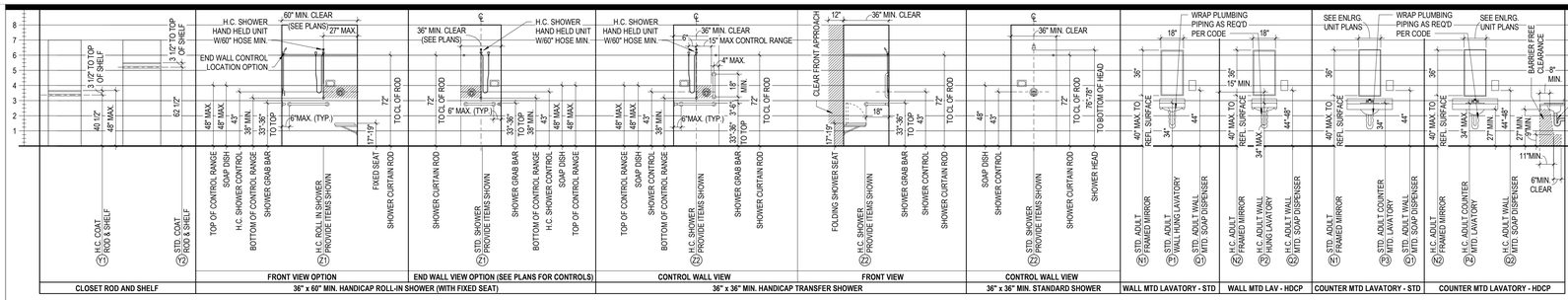
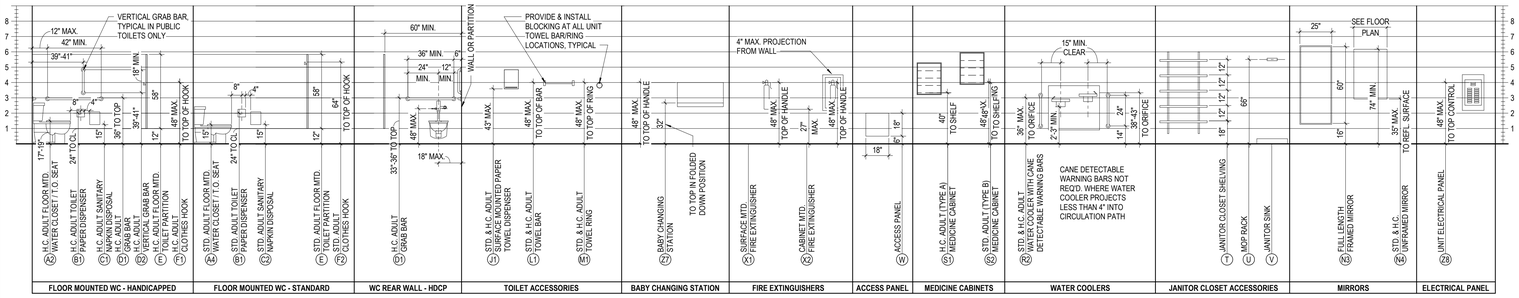
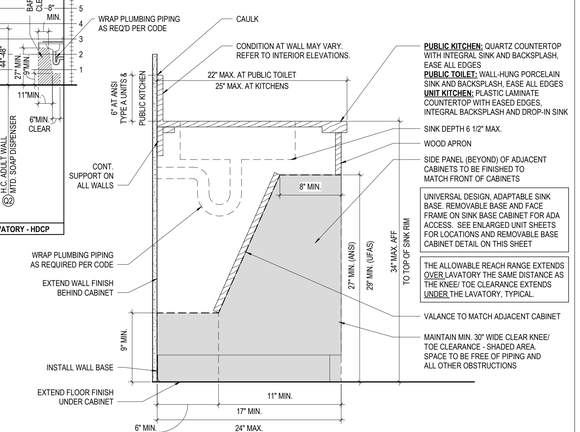
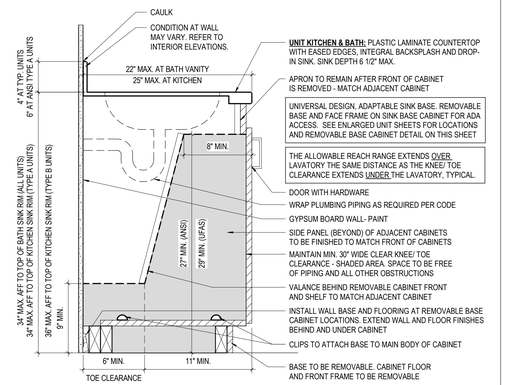




10 DETAIL DETAIL_MOUNTING HEIGHTS
1/4" = 1'-0"



CONDITION AT OPEN VALANCE



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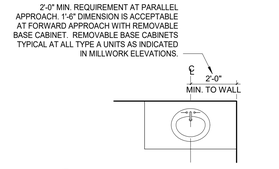
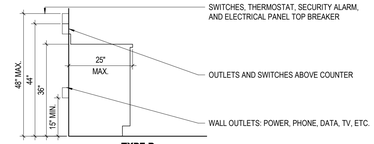
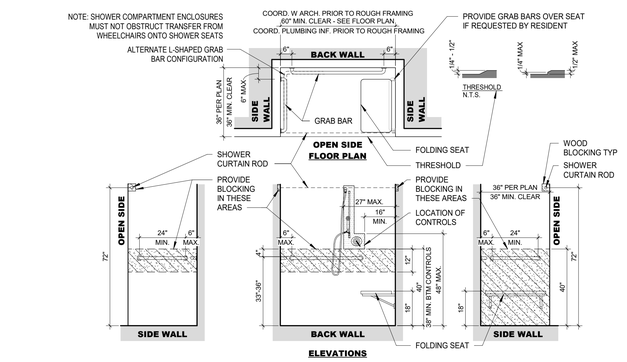


6 DETAIL LAVATORY
3/8" = 1'-0"

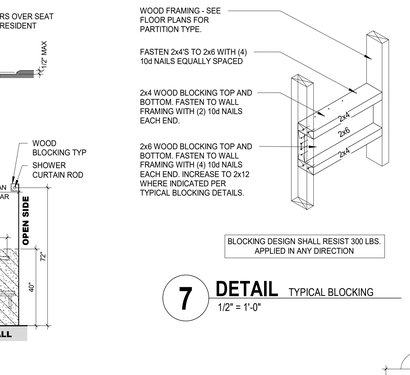


5 DETAIL ACCESSIBLE OPERABLE PARTS (ANSI TYPE A & TYPE B UNITS)
1/2" = 1'-0"

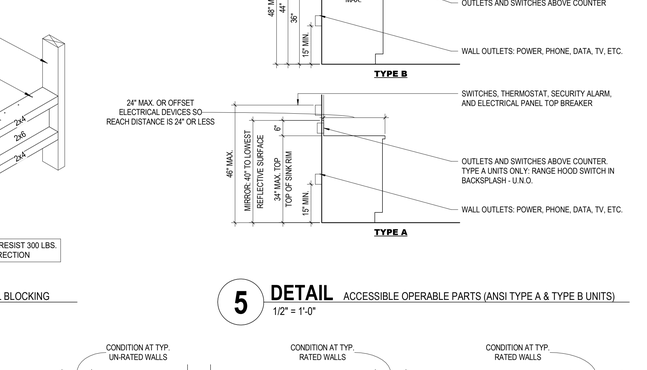
2 DETAIL NON-CORNER WOOD BLOCKING AT TYP. UNIT BATH
1/2" = 1'-0"



9 DETAIL ROLL-IN SHOWER (WITH SEAT) AT ANSI TYPE A UNIT BATH
3/8" = 1'-0"

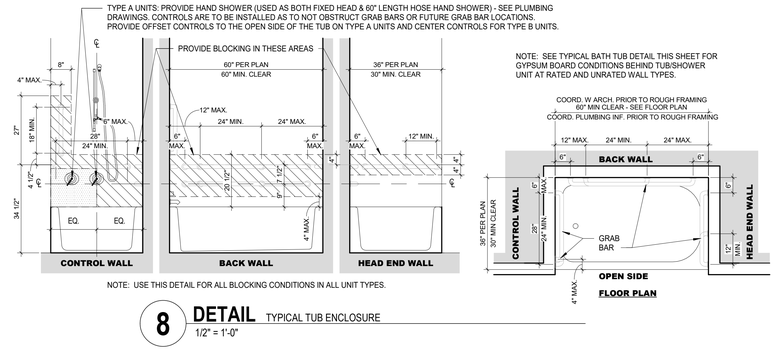


7 DETAIL TYPICAL BLOCKING
1/2" = 1'-0"



4 DETAIL TYPICAL BATH TUB
1 1/2" = 1'-0"

BATH TUB BLOCKING: ANSI TYPE A UNITS TO RECEIVE BLOCKING, GRAB BARS AND ACCESSIBLE PLUMBING FIXTURES IN ACCESSIBLE BATHS. TYPE B (TYPICAL) BATHS TO RECEIVE BLOCKING AND PLUMBING FIXTURES AS SPECIFIED. GRAB BAR BLOCKING FOR TUBS SHOULD BE INTEGRAL TO THE ONE-PIECE TUB UNIT. FACTORY-INSTALLED. BLOCKING FOR GRAB BARS TO BE PROVIDED FOR ALL UNITS. INSTALL ADDITIONAL BLOCKING FOR CURVED SHOWER RODS, LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE.



NOTE: USE THIS DETAIL FOR ALL BLOCKING CONDITIONS IN ALL UNIT TYPES.

8 DETAIL TYPICAL TUB ENCLOSURE
1/2" = 1'-0"

GENERAL NOTES - MOUNTING HEIGHTS

A. **H.C.** INDICATES HANDICAPPED ACCESSIBLE FIXTURE
   STD. INDICATES STANDARD FIXTURE
B. GENERAL CONTRACTOR SHALL COORDINATE TOILET FIXTURE LOCATIONS WITH PLUMBING CONTRACTOR WITH RESPECT TO FLUSH VALVE HEIGHT AND HORIZONTAL LOCATION VS. GRAB BAR LOCATIONS. NOTE: GRAB BAR HEIGHT IS BASED ON ADAAG AND CANNOT BE CHANGED TOP OF SEAT HEIGHT IS BASED ADAAG AND CANNOT BE CHANGED.
C. ALL MOUNTING HEIGHTS ARE ABOVE FINISH FLOOR (CRITICAL FOR ADA COMPLIANCE)
D. ALL DIMENSIONS ARE TO FACE OF FINISHED WALL (CRITICAL FOR ADA COMPLIANCE)
E. ALL DIMENSIONS TO CONTROLS ARE TO TOP OF BUTTON, LEVER OR KNOB
F. WHERE TOILET IS INDICATED TO BE "WALL HUNG OR FLOOR MTD" REFER TO PLUMBING DRAWINGS FOR EXACT FIXTURE.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
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PHONE: (614) 461-4664
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DRAWING TITLE:

TYPICAL PROJECT DETAILS

STATE OF OHIO — JAY W BOONE — 10740 — REGISTERED ARCHITECT
JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022
DRAWN BY: Author | CHECKED BY: Checker
Proj. #20643

A820

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FILE INFO: C:\BS.cost Revit Projects\2021 Projects\20643 Harriets Hope FSH - ARCH_bboser@moodynolan.com.rvt

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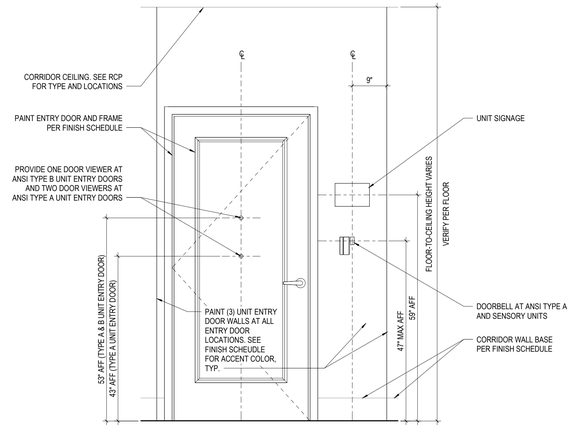
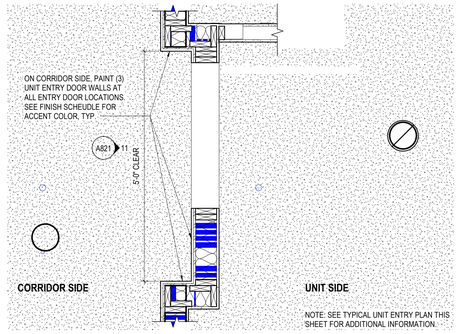
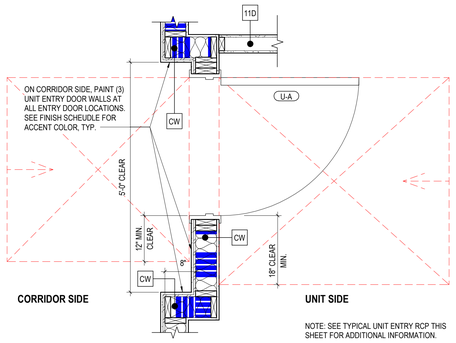


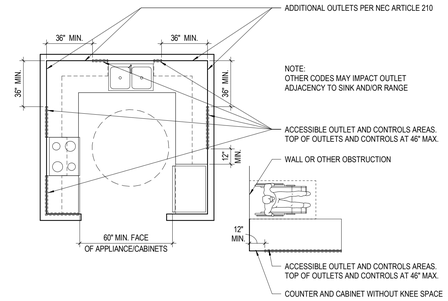
11 ELEVATION TYPICAL UNIT ENTRY
3/4" = 1'-0"



9 RCP TYPICAL UNIT ENTRY
3/4" = 1'-0"



8 PLAN TYPICAL UNIT ENTRY
3/4" = 1'-0"



4 DETAIL DEVICE MOUNTING AT COUNTERTOPS
1/4" = 1'-0"

NOTE: ELECTRICAL OUTLETS ON WALLS OVER CABINETS MUST BE A MINIMUM OF 36" FROM A CORNER.

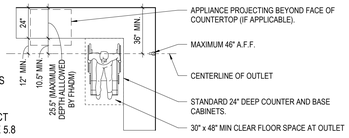


FIGURE 1: ELECTRICAL OUTLETS OVER CABINETS AND/OR COUNTERTOPS AT CORNER CONDITIONS - FAIR HOUSING ACT DESIGN MANUAL (FHADM) PAGE 5.8

* FIGURE 2 REPRESENTS AN ASSESSMENT BY ENDELMAN AND ASSOCIATES REGARDING COMPLIANCE WITH THE INTENT OF THE FHADM REQUIREMENT FOUND IN FIGURE 1.

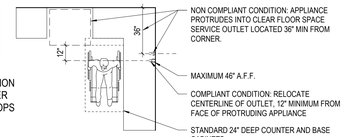
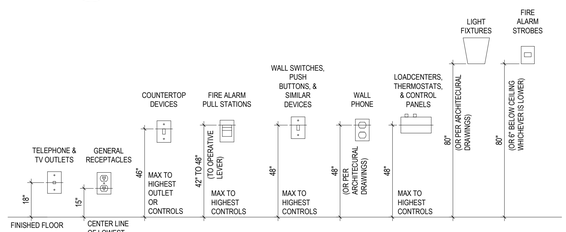


FIGURE 2: ALTERNATIVE LOCATION FOR ELECTRICAL OUTLETS OVER CABINETS AND/ OR COUNTERTOPS AT CORNER CONDITIONS *

3 DETAIL DETAIL_FAIR HOUSING ACT DESIGN MANUAL (FHADM) PAGE 5.8
1/4" = 1'-0"



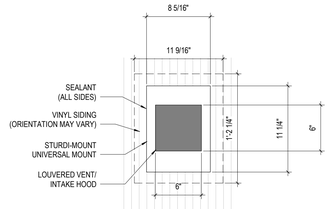
OTHER DEVICES (TO CENTER)	AFF (UNO)
REFRIGERATOR	60"
WASHER AND DRYER	46"
RANGE HOOD	78"
RANGE	12"
DISHWASHER	12"
DISPOSER	12"

EXCEPTION:

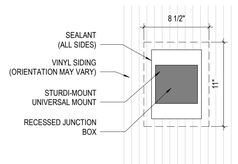
THESE REQUIREMENTS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL AND COMMUNICATIONS SYSTEMS RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.

FOR CONTROLS OR OUTLETS REQUIRED TO BE ACCESSIBLE, REFER TO ACCESSIBLE MOUNTING DETAILS.

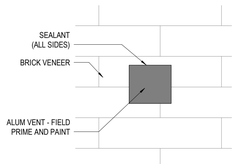
2 DETAIL DEVICE MOUNTING HEIGHTS
3/8" = 1'-0"



TRIM AT EXHAUST VENT/INTAKE



TRIM AT LIGHT FIXTURES



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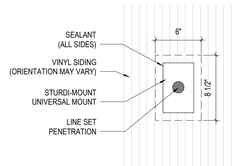

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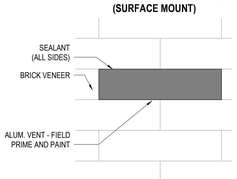

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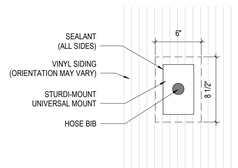
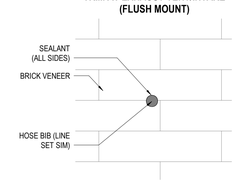
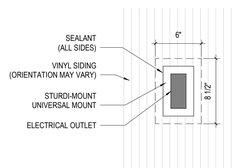


TRIM AT HOSE BIB



TRIM AT HOSE BIB (LINE SET PENETRATION SIM.)



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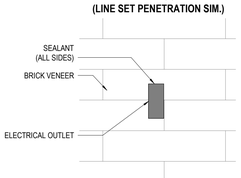

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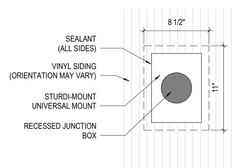

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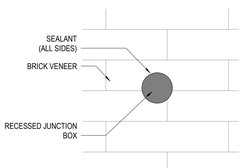
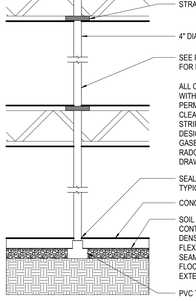


TRIM AT LIGHT FIXTURES

10 DETAIL DETAIL_EXTERIOR WALL FIXTURE / PENETRATION TRIM DETAILS
1 1/2" = 1'-0"



RADON CONTROL SYSTEM GENERAL NOTES (APPLIES TO FLAT ROOF SYSTEMS)

PROVIDE (1) PASSIVE RADON CONTROL SYSTEM IN BUILDING

PROVIDE A MINIMUM 6-MIL HIGH-DENSITY, CROSS-LAMINATED POLYETHELENE FLEXIBLE SHEETING, OVERLAPPED 12" AT SEAMS, ON TOP OF THE GAS PERMEABLE LAYER PRIOR TO POURING THE SLAB TO SERVE AS A SOIL-GAS RETARDER.

LARGE OPENINGS THROUGH CONCRETE SLABS SHALL BE FILLED OR CLOSED WITH NON-SHRINK MORTAR OR GROUT.

SMALLER GAPS SHALL BE MADE AIR TIGHT WITH AN ELASTOMETRIC JOINT SEAL.

ALL CONTROL JOINTS, ISOLATION JOINTS, CONSTRUCTION JOINTS, AND ANY OTHER JOINTS IN CONCRETE SLABS OR BETWEEN SLABS AND FOUNDATION WALLS SHALL BE SEALED.

PROVIDE 4" DIAMETER PVC/ RISER PIPE EMBEDDED VERTICALLY INTO THE SUB-SLAB AGGREGATE. A "T" FITTING ON THE BOTTOM OF THE PIPE SHALL BE USED TO ENSURE THAT THE PIPE OPENING REMAINS WITHIN THE SUB-SLAB PERMEABLE MATERIAL.

THE VENT PIPE SHALL BE EXTENDED VERTICALLY THROUGH THE BUILDING AND TERMINATE WITH A ROOF VENT AT LEAST 12" ABOVE THE SURFACE OF THE ROOF, IN A LOCATION AT LEAST 10 FEET AWAY FROM ANY WINDOW OR OTHER OPENING.

TO FACILITATE INSTALLATION OF AN ACTIVE SUB-SLAB DEPRESSURIZATION SYSTEM, ELECTRICAL JUNCTION BOXES SHALL BE INSTALLED IN THE ATTIC - IN PROXIMITY OF EACH VENT PIPE.

SEAL ALL PERIMETER OPENINGS THROUGH SLAB WITH URETHANE CAULK TO SEAL CONCRETE.

FILL ALL VOIDS UNDER TUBS/SHOWERS WITH CONCRETE OR EXPANDING FOAM.

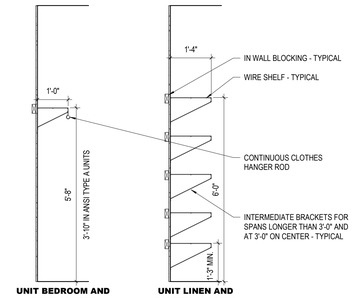
INSTALL 4" FIRE COLLARS IF REQUIRED BY FIRE CODE.

USE FIRE CAULK AROUND RADON VENT PIPES IN ALL UNITS.

FOR FLAT ROOFS INSTALL ROOF CURBS 16 1/2"X16 1/2" WITH CURB CAPS. INSTALL ELECTRIC ROUGH IN BESIDE ROOF CURB FOR FUTURE RADON FAN.

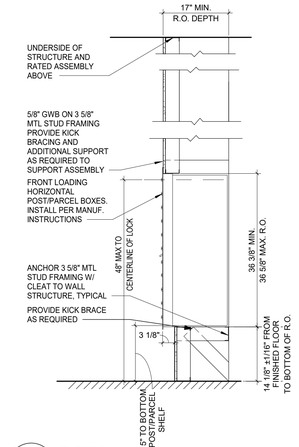
IF ACTIVE SYSTEM IS NECESSARY, INSTALL A RADON FAN: RADON AWAY MODEL RP265. RADON FAN, NOT IN CONTRACT.

7 DETAIL PASSIVE RADON SYSTEM - FLAT ROOF BUILDING
1/2" = 1'-0"

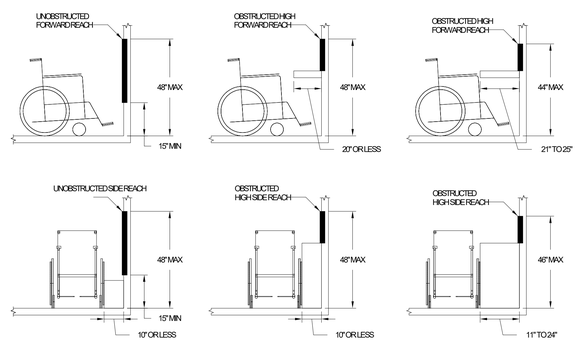


PROVIDE INTERMEDIATE BRACKETS FOR SPANS LONGER THAN 36" AND AT 3'-0" ON CENTER - TYPICAL. SEE GENERAL NOTES AND ENLARGED PLANS FOR LOCATIONS OF SHELVING AND TYPE.

6 DETAIL SHELVING
1/2" = 1'-0"



5 DETAIL MAILBOXES
3/4" = 1'-0"



1 DETAIL DEVICE MOUNTING AT ACCESSIBLE ROUTES
3/8" = 1'-0"

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

TYPICAL PROJECT DETAILS

STATE OF OHIO — JAY W BOONE — 10740 — REGISTERED ARCHITECT
JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022
DRAWN BY: Author | CHECKED BY: Checker
Proj. #20643

A821

PERMIT & BID SET

PRINT DATE: 4/1/2022 11:23:02 AM
FILE INFO: C:\$$Local Revit Projects\2021 Projects\20643-Hamels Hope PSH - ARCH_tbowe@moodynolan.com.rvt

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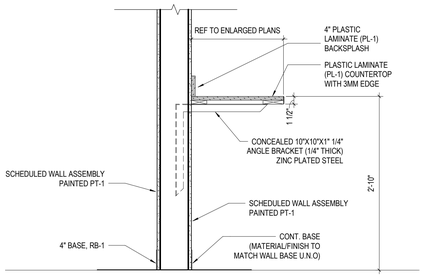
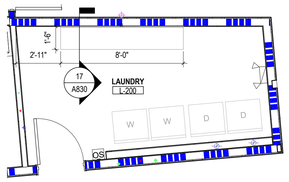
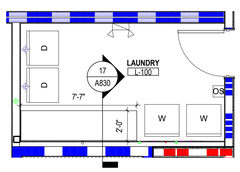


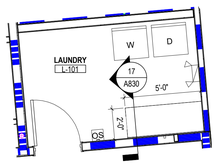
17 DETAIL LAUNDRY ROOM COUNTERTOP
1" = 1'-0" REF: 1 / A812



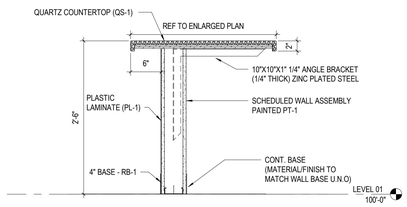
16 ENLARGED PLAN LAUNDRY L-200 & L-300 TYPICAL
1/4" = 1'-0" REF: 1 / A301



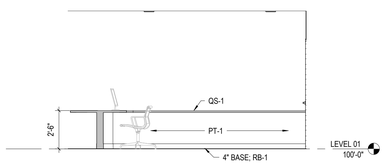
15 ENLARGED PLAN LAUNDRY ROOM L-100
1/4" = 1'-0" REF: 1 / A301



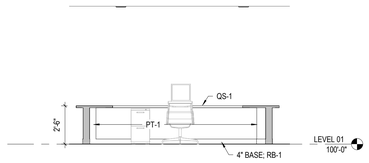
14 ENLARGED PLAN LAUNDRY ROOM L-101
1/4" = 1'-0" REF: 1 / A301



13 DETAIL FRONT DESK
1" = 1'-0" REF: 1 / A812



12 ELEVATION FRONT DESK WORKSTATION WEST
1/4" = 1'-0" REF: 1 / A1.0



11 ELEVATION FRONT DESK WORKSTATION EAST
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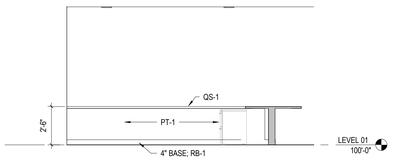
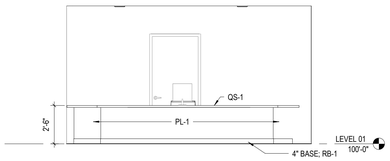
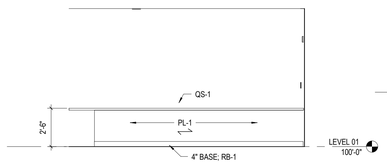


10 ELEVATION FRONT DESK FD-101 - INSIDE NORTH
1/4" = 1'-0" REF: 1 / A1.0



9 ELEVATION FRONT DESK WEST FACING
1/4" = 1'-0" REF: 1 / A1.0



8 ELEVATION FRONT DESK SOUTH FACING
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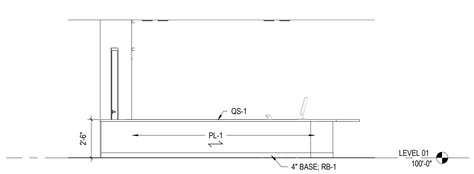

7 ELEVATION FRONT DESK NORTH FACING
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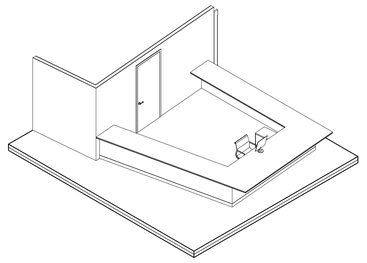
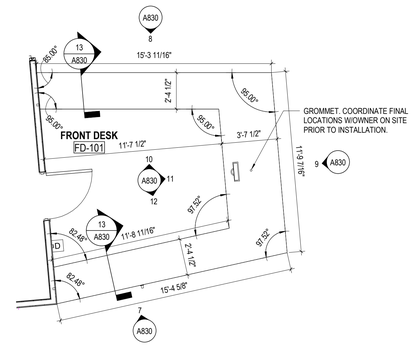
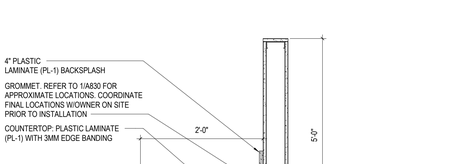


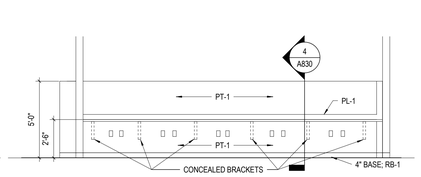
6 AXONOMETRIC FRONT DESK VIEW



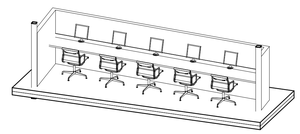
5 ENLARGED PLAN FRONT DESK FD-101 - SIDE SECTION
1/4" = 1'-0" REF: 1 / A301



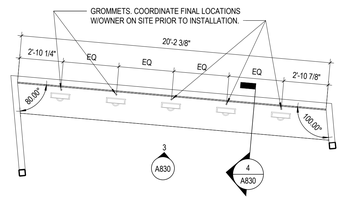
4 DETAIL COMPUTER DESK COUNTER
1" = 1'-0" REF: 1 / A812



3 ELEVATION COMPUTER DESK - NORTH
1/4" = 1'-0" REF: 1 / A1.0



2 AXONOMETRIC COMPUTER DESK VIEW @COMPUTER CP-101



1 ENLARGED PLAN COMPUTER DESK @ COMPUTER CP-101
1/4" = 1'-0" REF: 1 / A301

GENERAL NOTES - CASEWORK

A. REFER TO SPECIFICATION MANUAL SECTIONS 06-20-00 (FINISHED CARPENTRY) AND 06-40-00 (ARCHITECTURAL WOODWORK) FOR A COMPLETE ENUMERATION OF PERFORMANCE AND FABRICATION GUIDELINES.

B. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING IN-WALL BLOCKING ADEQUATE FOR THE SUPPORT OF ALL CABINETRY NOTED HEREIN. IN ADDITION, THE CONTRACTOR SHALL PROVIDE ADEQUATE IN-WALL BLOCKING FOR ANY/ALL FINISH CARPENTRY OR ANCILLARY COMPONENTS (INCLUDING BUT NOT LIMITED TO WALL PANELS, MILLWORK, CUSTOM CASEWORK, GRAPHIC PANELS, BANNERS, ETC.) DESIGNATED AND DETAILED HEREIN AS RIGIDLY ATTACHED TO WALL ASSEMBLIES OR OTHER STRUCTURAL COMPONENTS. SEE SPECIFICATION SECTION **06 10 50** FOR BLOCKING REQUIREMENTS. NOTE: SPECIFIC TYPES OF BLOCKING ARE SHOWN IN DETAIL DRAWINGS FOR CLARITY – THIS IS NOT TO BE TAKEN AS A FULL ACCOUNTING. GENERAL/TYPICAL BLOCKING MAY OR MAY NOT BE SHOWN.

C. FOR PLASTIC LAMINATE CABINETS: ALL EXPOSED EXTERIOR SURFACES ARE TO BE CLAD IN PLASTIC LAMINATE (COLOR AS NOTED). ALL EXPOSED INTERIOR SURFACES ARE TO BE CLAD IN WHITE MELAMINE. HIDDEN OR CONCEALED FACES ARE TO BE CLAD IN A PLASTIC LAMINATE BACKER. DOORS AND ADJUSTABLE SHELVES ARE TO BE FULLY CLAD IN THE SAME PLASTIC LAMINATE AS THE CASE (UNLESS NOTED OTHERWISE).

D. PROVIDE LOCKS FOR CABINET DOORS (UPPER AND LOWER) AS NOTED ON SPECIFIC ELEVATIONS.

E. ALL COUNTERTOPS ARE TO INCLUDE A CONTINUOUS MATCHING 4" BACKSPLASH (UNLESS SHOWN AND NOTED OTHERWISE). ALL BACKSPLASHES ASSUMED TO INCLUDE SIDESPLASHES AT ADJOINING WALLS AND/OR OTHER VERTICAL INTERRUPTIONS.

F. PLASTIC LAMINATE COUNTERTOPS ARE TO HAVE A 1 ½" NOSING WITH A MATCHING DOELKIN WOODTAPE VINYL EDGE BAND (MANUFACTURER'S BEST MATCH). EDGE BAND MATCHES TO BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION. UNDERSIDES OF COUNTER ARE TO BE CLAD WITH BACKER SHEET.

G. ALL THRU-COUNTER WIRE MANAGEMENT SLOTS ARE TO BE *12" LONG X 1" WIDE WITH DOUG MOCKET BRUSH STRIP INSERT (BR1-90)*. ALL FABRICATED WORKSURFACES WITH OPEN KNEE SPACE ARE TO RECEIVE A MINIMUM OF (1) INSERT EVERY 48". EXACT AND FINAL LOCATIONS ARE TO BE FIELD-COORDINATED WITH OWNER.

H. FOR "WET" AREAS (INCLUDING ALL FOOD SERVICE CABINETRY): COUNTERTOP/BACKSPLASH AND BASE CABINET SUBSTRATES ARE TO BE MARINE GRADE PLYWOOD.

I. NOTE THAT EQUIPMENT/APPLIANCES SHOWN IS FOR REFERENCE ONLY. EXACT LOCATIONS TO BE VERIFIED IN FIELD WITH OWNER.

J. FOR CABINETS AT INSIDE CORNERS: PROVIDE "CORNER CABINET" EXTENSION SO THAT END CABINET OF ONE RUN EXTENDS ALONG AND BEHIND OTHER RUN TO FILL IN CORNER DEAD SPACE – MODIFY AUGMENT SHELF SUPPORTS AS REQUIRED.

K. FINISH/MATERIAL ABBREVIATIONS ARE DELINEATED IN THE OVERALL PROJECT FINISH LEGEND.

L. ALL QUARTZ STONE WORKSURFACE/COUNTERTOP TO BE 2 CM WITH MITER-FOLD, PENCIL-EDGE NOSING ON 3/4" CABINET-GRADE PARTICLEBOARD SUBSTRATE. UNLESS NOTED OTHERWISE. COLOR AS NOTED.

M. ALL SOLID SURFACE COUNTERTOP/SURFACE/FACE TO BE 1/2" WITH SEAMLESS BUTT JOINT, PENCIL-EDGE FINISHING ON CONT. 3/4" CABINET GRADE PARTICLEBOARD SUBSTRATE.UNLESS NOTED OTHERWISE. COLOR AS NOTED.

N. ALL PLASTIC LAMINATE CASES AND COMPONENTSTO BE ON 3/4" CABINET-GRADE PLYWOOD SUBSTRATE. UNLESS NOTED OTHERWISE. COLOR AS NOTED.

O. ALL DOORS AND DRAWER FRONTS (FINISH AS NOTED) TO BE *REVEAL OVERLAY STYLE, DOORS ON CONCEALED, EUROPEAN-STYLE HINGES.* PLASTIC LAMINATE ON 3/4" PARTICLEBOARD SUBSTRATE. WITH COORDINATING 3mm PVC EDGE BAND (3/4"). UNLESS NOTED OTHERWISE.

P. FOR PLASTIC LAMINATE CABINETS: INTERIORS TO BE WHITE MELAMINE WITH MATCHING MELAMINE ADJUSTABLE SHELVES (MATCHING VINYL EDGE TAPE @ ALL SIDES. SHELVES ARE ADJUSTABLE (UNLESS NOTED OTHERWISE) SUPPORTED ON NICKEL (SPOON-TYPE) SHELF PINS. RECEIVING HOLES TO BE SPACED 2" O.C.

Q. ALL DRAWERS (EXCEPT FILES) ON MEDIUM-DUTY, FULL EXTENSION, SOFT-CLOSING GLIDES - FULL FILE DRAWERS ON HEAVY-DUTY, FULL-EXTENSION GLIDES. (WHITE MELAMINE INTERIORS).

R. ALL INTERNAL FRAMING AND/OR PLYWOOD RIBS TO BE SPACED NOT MORE THAN 16" O.C. - PROVIDE PENETRATIONS FOR WIRE MANAGEMENT

S. ALL COUNTER SUPPORT BRACKETS (12" X 18" U.N.O.) REGULARLY SPACED SO THAT OPEN SPANS NEVER EXCEED 42"

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

CASEWORK DETAILS

STATE OF OHIO
JAY W. BOONE
10740
REGISTERED ARCHITECT

JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022

DRAWN BY: **Author** | CHECKED BY: **Checker**

Proj. #20643

A830

PERMIT & BID SET

PRINT DATE: 4/1/2022 10:32:44 AM
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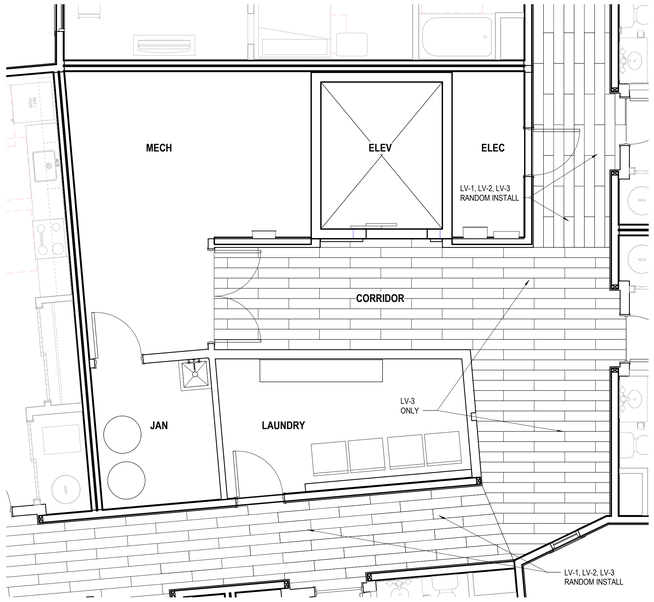


2 ENLARGED PLAN LEVEL 02&03 - FINISH PLAN - ELEVATOR LOBBY

1/4" = 1'-0" REF: 1 / A301

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR MAT	FLOOR COL	BASE MAT	BASE COL	DOOR/FRAME FINISH DOOR PAINT	DOOR/FRAME FINISH FRAME PAINT	WALLS NORTH MAT	WALLS NORTH COL	WALLS SOUTH MAT	WALLS SOUTH COL	WALLS EAST MAT	WALLS EAST COL	WALLS WEST MAT	WALLS WEST COL	CODED REMARKS
LEVEL 01																
AD-101	ADMIN	CR	1	RB	1			PT	1	PT	1	PT	1	PT	1	
C-100	CORRIDOR	LV	1, 2, 3	RB	1			PT	1, 2	PT	1, 2	PT	1, 2	PT	1, 2	1
C-101	CORRIDOR	LV	1, 2, 3	RB	1			PT	1, 3	PT	1, 3	PT	1, 3	PT	1, 3	1
C-102	CORRIDOR	LV	1, 2, 3	RB	1			PT	1	PT	1	PT	1	PT	1	1
CP-101	COMPUTER	CR	2	RB	1			PT	1, 2, 3	PT	1, 2, 3	PT	1, 2, 3	PT	1, 2, 3	3
CR-100	COMMUNITY ROOM	LV	3	RB	1			PT	1	PT	1	PT	1	PT	1	
CR-101	COMMUNITY ROOM	LV	3	RB	1			PT / CW	1 / 1	PT	1	PT	1	PT	1	2
E-100	ELEC	SC	--	RB	1			PT	1	PT	1	PT	1	PT	1	
EL-100	ELEV.	LV	3	--	--	--	--	--	--	--	--	--	--	--	--	
FD-101	FRONT DESK	CR	2	RB	1			PT	1	PT	1	PT	1	PT	1	
J-101	JAN	SC	--	RB	1			PT	1	PT	1	PT	1	PT	1	
L-100	LAUNDRY	SV	1	RB	1			PT	1	PT	1	PT	1	PT	1	
L-101	LAUNDRY	SV	1	RB	1			PT	1	PT	1	PT	1	PT	1	
LB-101	LOBBY	LV	1, 2, 3	RB	1			PT	1, 2, 3	PT	1, 2, 3	PT	1, 2, 3	PT	1, 2, 3	3
M-101A	MECH	SC	--	RB	1			PT	1	PT	1	PT	1	PT	1	
M-101B	MECH/ELEC	SC	--	RB	1			PT	1	PT	1	PT	1	PT	1	
MA-100	MAIL	LV	1, 2, 3	RB	1			PT	1	PT	1	PT	1	PT	1	
MG-101A	MEETING	CR	2	RB	1			PT	1	PT	?	PT	1	PT	1	
MG-101B	MEETING	CR	2	RB	1			PT	1	PT	?	PT	1	PT	1	
MG-101C	MEETING	CR	2	RB	1			PT	1	PT	?	PT	1	PT	1	
MG-101D	MEETING	CR	2	RB	1			PT	1	PT	?	PT	1	PT	1	
MT-101	MAINT	SC	--	RB	1			PT	1	PT	1	PT	1	PT	1	
PA-100	PARCEL/ STORAGE	LV	3	RB	1			PT	1	PT	1	PT	1	PT	1	
S-100	STORAGE	SC	--	RB	1			PT	1	PT	1	PT	1	PT	1	
S-101A	STORAGE	SC	--	RB	1			PT	1	PT	1	PT	1	PT	1	
S-101B	STORAGE	SC	--	RB	1			PT	1	PT	1	PT	1	PT	1	
S-101C	STORAGE	SC	--	RB	1			PT	1	PT	1	PT	1	PT	1	
ST-100	STAIR	RT / LV	1 / 3	RB	1			PT	1	PT	1	PT	1	PT	1	4
ST-101	STAIR	RT / LV	1 / 3	RB	1			PT	1	PT	1	PT	1	PT	1	4
T-101A	TOILET	LV	3	RB	1			PT	1	PT	1	PT	1	PT	1	
T-101B	TOILET	LV	3	RB	1			PT	1	PT	1	PT	1	PT	1	
V-101	VESTIBULE	WO	1	RB	1			PT	1	PT	1	PT	1	PT	1	
W-100	WATER	SC	--	RB	1			PT	1	PT	1	PT	1	PT	1	
WK-101	WORK	SC	--	RB	1			PT	1	PT	1	PT	1	PT	1	
LEVEL 02																
C-200	CORRIDOR	LV	1, 2, 3	RB	1			PT	1, 2	PT	1, 2	PT	1, 2	PT	1, 2	1
C-201	CORRIDOR	LV	1, 2, 3	RB	1			PT	1, 3	PT	1, 3	PT	1, 3	PT	1, 3	1
C-202	CORRIDOR	LV	1, 2, 3	RB	1			PT	1	PT	1	PT	1	PT	1	1
E-200	ELEC	SV	1	RB	1			PT	1	PT	1	PT	1	PT	1	
EL-200	ELEV	LV	1	--	--	--	--	--	--	--	--	--	--	--	--	
J-201	JAN	SV	1	RB	1			PT	1	PT	1	PT	1	PT	1	
L-200	LAUNDRY	SV	1	RB	1			PT	1	PT	1	PT	1	PT	1	
M-200	MECH	SV	1	RB	1			PT	1	PT	1	PT	1	PT	1	
ST-200	STAIR	RT / LV	1 / 3	RB	1			PT	1	PT	1	PT	1	PT	1	4
ST-201	STAIR	RT / LV	1 / 3	RB	1			PT	1	PT	1	PT	1	PT	1	4
LEVEL 03																
C-300	CORRIDOR	LV	1, 2, 3	RB	1			PT	1, 2	PT	1, 2	PT	1, 2	PT	1, 2	1
C-301	CORRIDOR	LV	1, 2, 3	RB	1			PT	1, 3	PT	1, 3	PT	1, 3	PT	1, 3	1
C-302	CORRIDOR	LV	1, 2, 3	RB	1			PT	1	PT	1	PT	1	PT	1	1
E-300	ELEC	SV	1	RB	1			PT	1	PT	1	PT	1	PT	1	
EL-300	ELEV	LV	1	--	--	--	--	--	--	--	--	--	--	--	--	
J-301	JAN	SV	1	RB	1			PT	1	PT	1	PT	1	PT	1	
L-300	LAUNDRY	SV	1	RB	1			PT	1	PT	1	PT	1	PT	1	
M-300	MECH	SV	1	RB	1			PT	1	PT	1	PT	1	PT	1	
ST-300	STAIR	RT / LV	1 / 3	RB	1			PT	1	PT	1	PT	1	PT	1	4
ST-301	STAIR	RT / LV	1 / 3	RB	1			PT	1	PT	1	PT	1	PT	1	4

CODED REMARKS

1. PT-2 & PT-3 @ UNIT DOOR SURROUND. TO INCLUDE DOOR AND HOLLOW METAL FRAME
2. CW-1 @ BACKSPLASH
3. SEE ENLARGED PLANS A900 FOR ACCENT PAINT LOCATIONS
4. RT ON STEPS / LV ON LANDINGS

FINISH LEGEND

FLOORS

Carpet Tile (CR)
CR-1 Mfg: Timeless Designs
Pattern: Fast Lanes 19.7" x 19.7" Tile
Color: 101 Maze Trail
Install: Quarter-turn

CR-2: Mfg: J&J / Kinetics
Pattern: Stipple 1838/2688
Color: 2688 Mottled
Install: Brick

Luxury Vinyl (LV)
LV-1 Mfg: Timeless Designs / LG Hausys
Pattern: Crossfit 8" x 48" Plank
Color: 7915-S025QON / Addington
Install: Random

LV-2 Mfg: Timeless Designs / LG Hausys
Pattern: Crossfit 8" x 48" Plank
Color: 7916-S025QON / Ashridge Plank
Install: Random

LV-3 Mfg: Timeless Designs / LG Hausys
Pattern: Crossfit 8" x 48" Plank
Color: 7932-S025QON / Brampton
Install: Random

See Enlarged Unit Plans for Plank Direction (DIR).

Ramdom 3-Color LV install in Lobby and Corridors.
See 1 and 2 A900 for Install.

Rubber Tread (RB)
RB-1 Mfg: Tarkett
Pattern: Hammered
Color: 63 Burnt Umber B

Sealed Concrete (SC)

Sheet Vinyl (SV)
SV-1 MFG: Beauflor
Pattern: Collective 12' Roll
Color: Ivory 90045957

Walk-Off Tile (WO)
WO-1 Mfg: Mannington
Pattern: Ruffian II - 24" x 24" Tile
Color: 1506 Ebony Earth
Install: Monolithic

BASE

Rubber Base (RB)
RB-1 Mfg: Tarkett 4" Traditional Base
Color: Burnt Umber B

WALLS

Ceramic Tile (CW)
CW-1 Mfg: Daltile
Pattern: Color Wheel Classic 3" x 6"
Color: 0190 Arctic White
Grout: TBD
Community Room Backsplash

Fiberglass Reinforced Plastic (FR)
FR-1 Mfg: Crane Composites
Pattern: Glasbord / Pebbled Embossed
Color: White (85)

Paint (PT)
PT-1 Mfg: Sherwin Williams
Color: SW 7004 Snowbound

PT-2 Mfg: Sherwin Williams
Color: Green Accent - TBD

PT-3 Mfg: Sherwin Williams
Color: Blue Accent - TBD

PT-4 Mfg: Sherwin Williams
Color: SW 7671 On the Rocks

STAIRS

Paint (PT)
PT-5 Mfg: Sherwin Williams
Color: SW 7069 Iron Ore
Metal

CEILING

Paint (PT)
PT-6 Mfg: Sherwin Williams
Color: SW 7007 Ceiling Bright White

MISCELLANEOUS

Cabinets
CB-1 Mfg: Advanta
Style: Newbury Slab
Color: Espresso
Hardware: Brushed Nickel
Single Units and Community Room

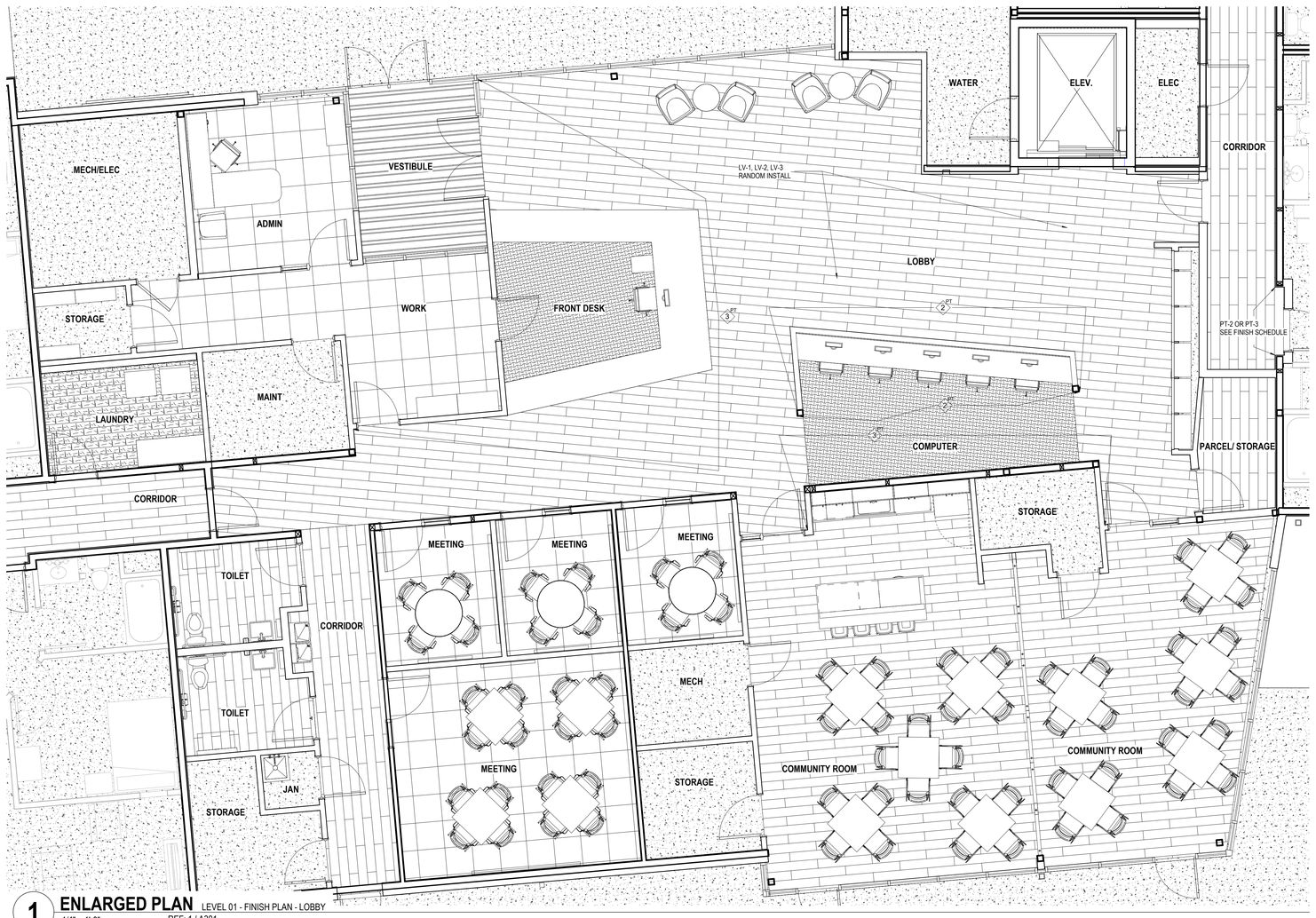
CB-2 Mfg: Advanta
Style: Newbury Slab
Color: Slate
Hardware: Brushed Nickel
Family Units

Cultured Marble
Mfg: Custom Cast Marble Works
Color: White
Bathroom Sinktops

PLAM (PL)
PL-1 Mfg: Formica
Pattern: 756
Color: Natural Maple
Reception Desk Casework

PL-2 Mfg: Formica
Pattern: Paloma Polat
Color: 6698-58
Unit Countertops

Quartz Surface (QS)
QS-1 Mfg: DuPont
Product: Corian Quartz
Color: Cloud White
Reception Desk Countertops
Community Room Countertops



1 ENLARGED PLAN LEVEL 01 - FINISH PLAN - LOBBY

1/4" = 1'-0" REF: 1 / A301

GENERAL NOTES - FINISH PLANS

A. STANDARDS AND PROCEDURES FOR THE PREPARATION AND APPLICATION OF INTERIOR FINISHES ARE DEFINED IN THE PROJECT MANUAL, FINISH (SUB) CONTRACTORS ARE REQUIRED TO READ, UNDERSTAND AND FOLLOW ALL RELEVANT SECTIONS OF THE PROJECT MANUAL.

B. FINISH MATERIALS ARE LISTED IN THE LEGEND COMPONENT OF THE FINISH SCHEDULE. SPECIFICATIONS ARE INCLUDED IN THE PROJECT MANUAL. ANY CONFLICTS OR DISCREPANCIES BETWEEN THESE TWO SHOULD BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY.

C. NO FINISH MATERIAL SUBSTITUTIONS WILL BE ACCEPTED EXCEPT IN THE SPECIFIC CIRCUMSTANCES ENUMERATED IN THE PROJECT MANUAL.

D. PAINTED HOLLOW METAL DOORS AND FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR UNLESS NOTED OTHERWISE. MATERIAL, FINISH AND COLOR INFORMATION FOR ALL OTHER DOORS AND FRAMES IS CONTAINED IN THE DOOR SCHEDULE AND ITS ASSOCIATED LEGENDS. IF WALLS ON OPPOSITE SIDES OF DOOR FRAME ARE DIFFERENT COLORS THE PAINT COLORS SHOULD BE SPLIT AT THE JAMB OF THE FRAME.

E. ALL VERTICAL TRANSITIONS BETWEEN DIFFERING WALL FINISHES ARE TO BE MADE AT INSIDE CORNERS (UNLESS NOTED OTHERWISE).

F. FLOORING MATERIAL DESIGNATED FOR STAIRS IS TO INCLUDE STAIR AND ALL ASSOCIATED TREADS, RISERS, LANDINGS, ETC. (UNLESS NOTED OTHERWISE).

G. PAINT DESIGNATED FOR METAL STAIR COMPONENTS IS TO INCLUDE ALL EXPOSED METAL COMPONENTS ASSOCIATED WITH THE STAIR SYSTEM ITSELF. ALL EXPOSED STRUCTURAL STEEL COMPONENTS SUPPORTING THE STAIR SYSTEM (UNLESS NOTED OTHERWISE), AND ALL EXPOSED METAL COMPONENTS OF THE HANDRAIL AND GUARDRAIL SYSTEMS (UNLESS NOTED OTHERWISE). UNDERSIDES OF STAIR RUNS AND LANDINGS ARE CONSIDERED "EXPOSED" IN ALL SITUATIONS.

H. FOR CLARITY, SOME FINISH INFORMATION HAS BEEN PRESENTED GRAPHICALLY IN THE FORM OF FINISH AND FLOORING PLANS. SHOULD THERE BE A DISCREPANCY BETWEEN THE FINISH SCHEDULE AND THESE PLANS, THE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY. FOR THE PURPOSE OF BIDDING, INFORMATION DETAILED ON THE FINISH FLOOR PLANS AND FLOORING PLANS IS TO TAKE PRECEDENCE OVER THE FINISH SCHEDULE UNTIL FURTHER CLARIFICATION CAN BE GIVEN. FOR AREAS NOT SPECIFICALLY DETAILED ON THESE PLANS, THE FINISH SCHEDULE PERTAINS.

I. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

J. WHERE RESILIENT BASE IS SPECIFIED (VINYL OR RUBBER) PROVIDE COVE PROFILE BASE AT ALL RESILIENT FLOORS AND STRAIGHT BASE FOR ALL CARPET AREAS (UNLESS OTHERWISE NOTED). HEIGHT AND COLOR TO BE AS INDICATED ON FINISH LEGEND.

K. REFER TO REFLECTED CEILING PLANS AND SPECIFICATION MANUAL FOR ALL CEILING MATERIAL AND FINISH INFORMATION.

L. ALL DRYWALL SOFFITS TO BE PAINTED FLAT CEILING WHITE UNLESS NOTED OTHERWISE ON CEILING PLANS.

M. CERAMIC WALL TILE TO EXTEND FULL WIDTH AND FULL HEIGHT FOR ANY AND ALL SCHEDULED TILED WALLS (UNLESS NOTED OTHERWISE).

N. FOR EPOXY OR INTUMESCENT PAINT COLOR REFER TO PAINT SCHEDULE NUMBERS.

O. WITHIN FINISH SCHEDULE CELLS: SLASH MARKS INDICATE DIFFERENCES IN FINISH MATERIAL WHILE COMMAS INDICATE DIFFERENCES IN PATTERN OR COLOR WITHIN A SPECIFIC MATERIAL.

P. APPROPRIATE METAL OR VINYL TRANSITION STRIPS MUST BE PROVIDED AT ALL FINISH MATERIAL FLOORING CHANGES. GENERAL CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL FLOORING TRANSITIONS AND AREAS IN WHICH FLOORING PATTERNS ARE SHOWN. SEE FLOOR FINISH PLANS, DETAILS AND NOTES FOR SPECIFIC INFORMATION.

Q. WALL PAINT INDICATED FOR CURTAIN WALL LOCATIONS APPLIES TO ALL ASSOCIATED DRYWALL COMPONENTS (CURBS, HEADERS, BULKHEADS, ETC.) AND SHOULD NOT BE INTERPRETED AS APPLYING TO CURTAIN WALL COMPONENTS OR GLASS.

R. FLOORING CONTRACTOR(S) IS RESPONSIBLE FOR COORDINATING FINISHED FLOOR ELEVATIONS WITH ALL/ANY FLOOR MOUNTED COMPONENTS (RECEPTACLES, ACCESS PANELS, ETC.) SO THAT COMPONENTS ARE INTEGRATED AND FLUSH.

FLOOR PATTERN LEGEND

SC1 - SEALED CONCRETE
CR1 - (QUARTER TURNED INSTALL)
CR2 - (BRICK INSTALL)
WO1 - WALK OFF
LV1 - RANDOM INSTALL
LV2 - RANDOM INSTALL
LV3 - RANDOM INSTALL
SV1 - 12' ROLL

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

FINISH LEGEND

STATE OF OHIO
JAY W BOONE
10740
REGISTERED ARCHITECT

JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022
DRAWN BY: XXX CHECKED BY: XXX
Proj. #20643
A900
PERMIT & BID SET

PRINT DATE: 4/1/2022 10:32:58 AM
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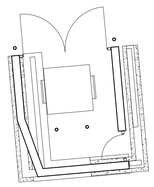

1 **LEVEL 01 - FURNITURE PLAN**
1/8" = 1'-0"

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

LEVEL 01 - FURNITURE PLAN

STATE OF OHIO
JAY W. BOONE
10740
REGISTERED ARCHITECT

JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022

DRAWN BY: Author | CHECKED BY: Checker

Proj. #20643

A910

PERMIT & BID SET

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1 LEVEL 02 - FURNITURE PLAN

1/8" = 1'-0"

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

LEVEL 02 - FURNITURE PLAN

STATE OF OHIO
JAY W BOONE
10740
REGISTERED ARCHITECT

JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022

DRAWN BY: Author | CHECKED BY: Checker

Proj. #20643

A911

PERMIT & BID SET

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1 LEVEL 03 - FURNITURE PLAN

1/8" = 1'-0"

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

LEVEL 03 - FURNITURE PLAN

STATE OF OHIO
JAY W BOONE
10740
REGISTERED ARCHITECT

JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022

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A912

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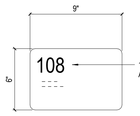
SIGNAGE TYPES



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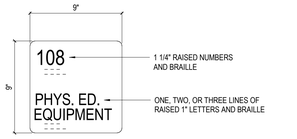

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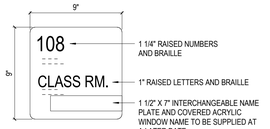

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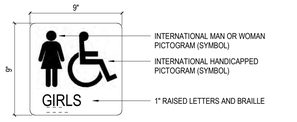

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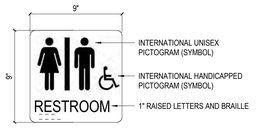

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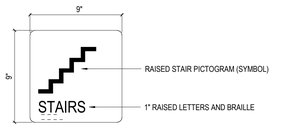

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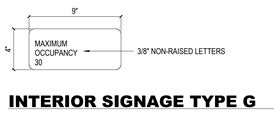

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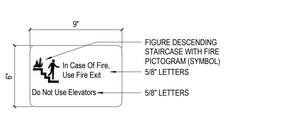

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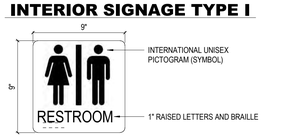

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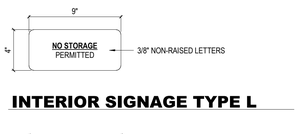
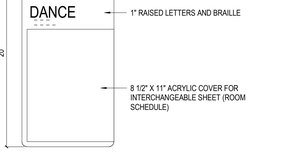


INTERIOR SIGNAGE TYPE L

INTERIOR SIGNAGE TYPE M



INTERIOR SIGNAGE TYPE N

INTERIOR SIGNAGE TYPE P

GENERAL NOTES

1. PROVIDE MAXIMUM OCCUPANCY SIGNAGE TYPE G AS NEEDED PER SPECIFICATIONS.
2. FIRE EXTINGUISHERS SHALL BE FURNISHED WITH SIGNAGE PER THE MANUFACTURER.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

SIGNAGE SCHEDULE

STATE OF OHIO
JAY W BOONE
10740
REGISTERED ARCHITECT

JAY W BOONE, LIC. #10740
EXP. DATE: 12/31/2022

APRIL 4, 2022

DRAWN BY: **Author** | CHECKED BY: **Checker**

Proj. #20643

A931

PERMIT & BID SET

PRINT DATE: 4/1/2022 10:33:19 AM
FILE INFO: C:\$$Local Revit Projects\2021 Projects\20643 Harriets Hope PSH - ARCH_RKoalAPRGQ.rvt

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ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.

(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATE
AUTO	AUTOMATIC
AVG	AVERAGE
BF	BELOW FLOOR
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BOP	BOTTOM OF PIPE
CAP	CAPACITY
CONN	CONNECTION OR CONNECT
CONT	CONTINUATION
CU FT	CUBIC FEET
CU IN	CUBIC INCH
D	DRAIN
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DEPT	DEPARTMENT
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EL	ELEVATION
EQUIP	EQUIPMENT
EXP	EXPANSION
EXIST	EXISTING
F	FIRE PROTECTION WATER SUPPLY
°F	DEGREES FAHRENHEIT
FDC	FIRE DEPARTMENT CONNECTION
FIN FL EL	FINISHED FLOOR ELEVATION
FP	FIRE PROTECTION
FS	FLOW SWITCH
FT	FOOT OR FEET
FVC	FIRE VALVE CABINET
GA	GAUGE
GAL	GALLONS
GPM	GALLONS PER MINUTE
HD	HEAD
HGT	HEIGHT
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
IN	INCHES
KW	KILOWATT
LB	POUNDS
LF	LINEAR FEET
LG	LENGTH
MAX	MAXIMUM
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GUAGE
RPM	REVOLUTIONS PER MINUTE
SEC	SECOND
SPEC	SPECIFICATION
STSTL	STAINLESS STEEL
STD	STANDARD
STR	STRAINER
TE	TOP ELEVATION
TOP	TOP OF PIPE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W	WATER
WG	WATER GAUGE
WGT	WEIGHT
WPIV	SUPERVISED WALL POST INDICATOR VALVE

SYMBOLS LIST

PIPING

- EXISTING TO REMAIN — (E)
- EXISTING TO BE DEMOLISHED — (D)
- EXISTING ABANDONED — (A)
- FIRE PROTECTION — F
- FIRE PROTECTION AREA

PIPING (FITTINGS, VALVES, AND MISCELLANEOUS)

- DROP
- RISE
- TEE
- CAP
- FLOW ARROW
- PUMP
- GLOBE VALVE
- SOLENOID VALVE — SOL
- SUPERVISED VALVE — S
- PRESSURE REDUCING VALVE
- OUTSIDE STEM & YOKE VALVE
- DOUBLE DETECTOR CHECK ASSEMBLY
- BUTTERFLY VALVE
- BALL VALVE
- CHECK VALVE
- STRAINER
- UNION
- PIPE SLEEVE
- FLOW SWITCH — FS
- PRESSURE SWITCH — PS
- UPRIGHT SPRINKLER HEAD
- PENDANT OR CONCEALED SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- DRY-PIPE BARREL SIDEWALL SPRINKLER HEAD
- FIRE DEPARTMENT CONNECTION
- PRESSURE GAUGE WITH STOPCOCK

NOTATIONS

- CONNECT TO EXISTING
- BEGINNING AND/OR END OF DEMOLITION

FLOW TEST INFORMATION

STATIC PRESSURE:	77 PSI
RESIDUAL PRESSURE:	55 PSI
HYDRANT FLOW:	2430 GPM
PITOT:	32 PSI
FLOW HYDRANT:	HYDRANT 1
PRESSURE HYDRANT:	HYDRANT 2
TEST DATE:	6/30/21
TEST TIME:	1:35 PM
TEST BY:	DEVIN ROSS (SA COMUNALE CO.)

SPRINKLER SYSTEM

DESIGN DENSITY & SPRINKLER COVERAGE CHART

HAZARD CLASSIFICATION		AREA	DENSITY (GPM/SQ. FT)	MAXIMUM COVERAGE AREA PER SPRINKLER (SQ. FT)	DESIGN AREA (SQ FT)
LH	LIGHT HAZARD	ALL SPACES UNLESS OTHERWISE NOTED	0.10	225	1500
OH1	ORDINARY HAZARD GROUP 1	MECHANICAL/ ELECTRICAL ROOMS, STORAGE ROOMS, SHELL OFFICE /RESTAURANT SPACES, TRASH ROOMS	0.15	130	1500

GENERAL FIRE PROTECTION NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW THE EXACT LOCATIONS OF COMPONENTS, NOR SHOW ALL SYSTEM COMPONENTS. CONTRACTOR SHALL PROVIDE ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES.

B. DRAWINGS ARE NOT TO BE SCALED. DIMENSIONS SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE CONCERNING EXISTING AND NEW WORK BEFORE PROCEEDING WITH EITHER FABRICATION OR INSTALLATION IN MECHANICAL AREAS WITH NUMEROUS OBSTRUCTIONS INCLUDING DUCTWORK, EQUIPMENT AND PIPING. THIS WILL REQUIRE ON SITE CUTTING AND VERIFICATION.

C. ANY INFORMATION CONFLICTS BETWEEN THE SPECIFICATIONS AND DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION. THE CONTRACTOR(S) SHALL NOT PROCEED WITH ANY WORK, EXCEPT AT THEIR OWN RISK, UNTIL CLARIFICATIONS OF THE CONFLICTS ARE ISSUED TO THE CONTRACTOR(S) BY THE ENGINEER.

D. ALL MATERIAL AND LABOR SHALL BE UNDER WARRANTY FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. ANY NEW DEVICES OR EQUIPMENT FOUND FAULTY SHALL BE REPLACED AS PART OF THE WARRANTY.

E. A SET OF APPROVED DRAWINGS SHALL BE MAINTAINED ON SITE AND ALL FIELD CHANGES SHALL BE RED LINED ON THE DRAWINGS. CONTRACTOR SHALL PREPARE "AS-BUILT" DRAWINGS IN ELECTRONIC (AUTOCAD) FORMAT, REFLECTING ACCURATE FIELD CONDITIONS.

F. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR THE SPRINKLER SYSTEMS SHOWING ALL SPRINKLER LOCATIONS, SPACED AND LOCATED IN ACCORDANCE WITH NFPA 13. THE SHOP DRAWINGS SHALL BE APPROVED IN WRITING PRIOR TO STARTING THE INSTALLATION.

G. ALL PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION SHALL BE PROVIDED A UL LISTED THROUGH PENETRATION FIRESTOP ASSEMBLY. THE RATINGS OF ALL FIRESTOP ASSEMBLIES SHALL BE GREATER THAN OR EQUAL TO THE RATING OF THE PENETRATED BARRIER.

H. CORE DRILL PENETRATIONS IN CONCRETE FLOORS OR WALLS 1-2 INCHES LARGER THAN THE PIPE DIAMETER OF THE PENETRATING PIPE.

I. ALL OPENINGS OR DAMAGE TO EXISTING WALLS, CEILINGS, FLOORS AND STRUCTURAL MEMBERS FROM PENETRATIONS, REMOVALS, INSTALLATIONS OR OTHER ACTIONS OF THE CONTRACTOR SHALL BE PATCHED, REPAIRED AND PAINTED WITH NEW MATERIALS BY THE CONTRACTOR TO MATCH ADJACENT WORK, WHETHER SPECIFICALLY NOTED OR NOT. REPAIRS ARE AT THE CONTRACTORS EXPENSE.

J. DUCTWORK, PIPING, MECHANICAL EQUIPMENT AND CEILINGS SHALL NOT BE UTILIZED AS LADDERS, SCAFFOLDING OR WORK PLATFORMS.

K. NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED, OR BURNED WITHOUT THE KNOWLEDGE AND WRITTEN APPROVAL OF THE OWNER.

L. ALL ELEVATIONS ABOVE FINISHED FLOOR (AFF) INDICATED FOR STRUCTURAL MEMBERS AND CEILINGS ARE APPROXIMATE. VARIANCES OF +/- 1" CAN BE EXPECTED DUE TO SLOPING FLOORS AND STRUCTURAL MEMBERS.

M. THE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13.

N. WATER SUPPLIES SHALL BE CALCULATED BY USING THE LATEST WATER FLOW INFORMATION AND ALLOWING FOR A 10% REDUCTION OF THE STATED PRESSURES OR 5 P.S.I., WHICHEVER IS GREATER, AS AN ALLOWANCE FOR SEASONAL VARIATIONS IN WATER SUPPLY.

O. EQUIPMENT, MATERIALS, INSTALLATION WORKMANSHIP, EXAMINATION AND TESTING SHALL BE IN ACCORDANCE WITH NFPA 13 EXCEPT AS MODIFIED HEREIN. INSTALL PIPING STRAIGHT AND TRUE TO BEAR EVENLY ON HANGARS AND SUPPORTS. PIPE SHALL NOT INTERFERE WITH OTHER EQUIPMENT AND CONSTRUCTION. AUTOMATIC SPRINKLERS SHALL BE PERPENDICULAR TO CEILINGS. THE AUTOMATIC SPRINKLER COVER PLATES SHALL NOT BE FIELD PAINTED.

P. CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLS, DUCTS, STRUCTURAL MEMBERS, MECHANICAL EQUIPMENT AND PIPES. SPRINKLERS INSTALLED IN PROXIMITY TO OBSTRUCTIONS SHALL BE LOCATED TO MINIMIZE OBSTRUCTION TO DISCHARGE IN ACCORDANCE WITH NFPA 13.

Q. NO FABRICATION OR INSTALLATION IS ALLOWED WITHOUT APPROVED SHOP DRAWING SUBMITTALS.

R. CONTRACTOR SHALL SUBMIT SYSTEM CATALOG PRODUCT DATA SHEETS AND SAMPLES OF ALL COMPONENTS PROPOSED FOR USE PRIOR TO INSTALLATION FOR APPROVAL. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL AND SHALL INCLUDE ALL ITEMS REQUIRED BY NFPA 13.

S. ONLY LISTED AND APPROVED DEVICES AND MATERIALS AS SPECIFIED IN NFPA 13 SHALL BE INSTALLED THROUGHOUT THE SYSTEM. EACH COMPONENT OF THE SPRINKLER SYSTEM SHALL BE LISTED AS A PRODUCT BY THE MANUFACTURER UNDER THE APPROPRIATE CATEGORY FOR THE INTENDED USE BY UNDERWRITERS LABORATORIES INC. (UL) OR FACTORY MUTUAL (FM) AND SHALL BEAR THE "UL" OR "FM" LABEL, AS APPROPRIATE.

T. THE COMPONENTS OF HANGER ASSEMBLIES THAT DIRECTLY ATTACH TO THE PIPE OR TO THE BUILDING SHALL BE LISTED IN ACCORDANCE WITH NFPA 13.

U. SPRINKLER SYSTEM PIPING SHALL NOT SHARE SUPPORTS WITH OTHER BUILDING SYSTEMS. IN MECHANICAL AREAS, PIPING SHALL NOT BE ATTACHED TO THE DUCT WORK. STATIONS SHALL BE USED WHERE PIPING IS UNABLE TO BE HUNG FROM ABOVE.

V. ONLY LISTED AND APPROVED NEW SPRINKLERS SHALL BE EMPLOYED IN THE INSTALLATION OF THE SPRINKLER SYSTEM.

W. ENSURE SPRINKLER TEMPERATURE RATINGS ARE IN ACCORDANCE WITH NFPA 13 REQUIREMENTS FOR PROXIMITY TO HEAT GENERATING DEVICES.

X. CONTRACTOR SHALL MAKE PROVISIONS TO ENSURE ADEQUATE DRAINAGE OF ALL PIPING IN ACCORDANCE WITH NFPA 13. ALL DRAINS DISCHARGE SHALL BE PIPED TO DESIGNATED AREAS. LOCATION OF ALL OUTSIDE DISCHARGE POINTS SHALL BE COORDINATED WITH THE OWNER.

Y. THE CONTRACTOR SHALL PROVIDE LOW POINT DRAINS AS REQUIRED BY NFPA 13. ALL LOW POINTS SHALL BE MARKED WITH SIGNAGE INDICATING "AUXILIARY DRAIN."

Z. PROVIDE DRAINS AND INSPECTOR'S TEST DISCHARGE TO DESIGNATED LOCATIONS.

AA. ALL SPRINKLER PIPING SHALL BE INSTALLED SO THAT ALL PORTIONS OF THE SYSTEM CAN BE DRAINED BACK THROUGH DRAIN VALVE OR LOW POINT DRAINS PROVIDED.

AB. UPON COMPLETION OF INSTALLATION, ALL PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH NFPA 13 FOR TWO (2) HOURS AT A PRESSURE OF 200 PSI OR 50 PSI ABOVE THE MAXIMUM WORKING PRESSURE OF THE SYSTEM FOR NEW SYSTEM, OR USING HYDROSTATIC TEST AT THE SYSTEM WORKING PRESSURE FOR THE EXISTING SYSTEM TO ADD NEW SPRINKLER SYSTEM. ALL TESTS SHALL BE WITNESSED AND ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.

AC. REPLACE PIPING SYSTEM COMPONENTS THAT DO NOT PASS HYDROSTATIC TEST PROCEDURES AND RETEST TO DEMONSTRATE COMPLIANCE. REPEAT PROCEDURE UNTIL SATISFACTORY RESULTS ARE OBTAINED.

AD. FLUSHING SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 25. REPORT FLUSHING AND HYDROSTATIC TEST RESULTS PROMPTLY AND IN WRITING TO THE OWNER. CONTRACTOR SHALL PROVIDE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE SPRINKLER SYSTEMS.

AE. SPRINKLERS SHALL BE PROVIDED THROUGHOUT BUILDING INCLUDING BUT NOT LIMITED TO: ELECTRIC ROOMS AND CLOSETS, TEL/DATA CLOSETS, AND ENTRY VESTIBULES. STAIRWELLS, AT THE MAIN LANDING, UTILIZING UPRIGHT SPRINKLERS. BELOW DUCTS, GROUPS OF DUCTS OR OTHER OBSTRUCTIONS GREATER THAN 48" WIDE IN EXPOSED CONSTRUCTION AREAS, PER NFPA-13 REQUIREMENTS.

AF. PIPING IN AREAS WITH FINISHED CEILINGS SHALL BE INSTALLED ABOVE FINISHED CEILINGS.

AG. ALL SPRINKLER SYSTEM VALVES SHALL BE OF THE INDICATING TYPE AND PROVIDED WITH ELECTRICAL SUPERVISORY (TAMPER) SWITCHES INTERCONNECTED WITH THE BUILDING FIRE ALARM SYSTEM. THE FLOW SWITCH SHALL ALSO BE INTERCONNECTED WITH THE FIRE ALARM SYSTEM TO ALARM WHEN FLOW IN THAT ZONE OCCURS.

AH. CONTRACTOR SHALL PROVIDE LABELS (WITH FLOW ARROWS) FOR ALL EXPOSED PIPING IN ACCORDANCE WITH OSHA STANDARDS AND NFPA 13.

AI. CONTRACTOR SHALL CONDUCT FIRE HYDRANT FLOW TESTS TO OBTAIN HYDRAULIC DATA NEEDED TO PREPARE DESIGN FOR HYDRAULICALLY CALCULATED SYSTEM.

AJ. CONTRACTOR SHALL PROVIDE HYDROSTATIC TEST, FINAL FLOW TEST UPON COMPLETION OF ALL SYSTEM WORK, AND BACKFLOW PREVENTER TEST REPORT PER NFPA 13 TO AND FIRE DEPARTMENT UPON COMPLETION OF WORK.

AK. SPRINKLERS SHALL BE LOCATED IN CENTER OF CEILING TILES, OR CENTER OF SHORT SIDE OF TILE AND AT QUARTER POINTS OF LONG SIDE OF TILE. WHERE APPLICABLE, AND SHALL BE LOCATED IN RELATIONSHIP TO LIGHTING FIXTURES AND HVAC DIFFUSERS TO MAINTAIN A SYMMETRICAL PATTERN FOR AN AESTHETICALLY PLEASING EFFECT. NO PIPING SHALL BE EXPOSED WITH THE EXCEPTION OF PIPING IN AREAS WITH NO CEILINGS.

AL. PROVIDE ADDITIONAL SPRINKLERS BEYOND CODE REQUIRED MINIMUMS TO PROVIDE SYMMETRICAL LAYOUTS.

AM. PROVIDE A TEST CONNECTION DOWNSTREAM OF THE BACKFLOW PREVENTION DEVICE. SIZE SHALL BE ADEQUATE TO PROVIDE FOR FLOW TEST SYSTEM DEMAND. PROVIDE SUPERVISED SWITCH ON ALL VALVES.

AN. NO SPRINKLER PIPING SHALL BE INSTALLED PASSING THROUGH ELECTRICAL ROOMS OR OVER ELECTRICAL PANELS / EQUIPMENT WHICH SERVES OTHER AREAS. COORDINATE THE LOCATION OF ALL PIPING WITH ELECTRICAL EQUIPMENT AND OTHER TRADES AND ADJUST AS NECESSARY.

AO. MAKE REASONABLE AND NECESSARY MODIFICATIONS IN LAYOUTS AND COMPONENTS NEEDED TO PREVENT CONFLICTS WITH WORK OF OTHER TRADES AND TO COORDINATE IN ACCORDANCE WITH SPECIFICATIONS.

AP. MAINTAIN MAXIMUM HEADROOM AT ALL LOCATIONS. ALL PIPING TO BE AS TIGHT TO THE UNDERSIDE OF DECK AS POSSIBLE. AL EXPOSED PIPING SHALL BE APPROVED BY ARCHITECT AND SHALL MAINTAIN REQUIRED CLEARANCES.

AQ. PROVIDE AND INSTALL GUARDS ON SPRINKLERS SUSCEPTIBLE TO MECHANICAL DAMAGE INCLUDING, BUT NOT LIMITED TO, SPRINKLERS IN MECHANICAL ROOMS AND SPRINKLERS INSTALLED LESS THAN 7' AFF.

AR. CONTRACTOR TO PROVIDE COPY OF NFPA 25 TO OWNER UPON COMPLETION OF PROJECT, AS REQUIRED PER NFPA 13.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLUMBUS/NYON.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
GENERAL INFORMATION - FIRE PROTECTION

STATE OF OHIO — 3/29/22 — JOLIN — 72201 — REGISTERED PROFESSIONAL ENGINEER

APRIL 4, 2022

DRAWN BY: **PM** | CHECKED BY: **BJ**

Proj. #20643

F001

PERMIT & BID SET

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

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1 PLAN LEVEL 01 - FLOOR PLAN - FIRE PROTECTION
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO SHEET F001 FOR GENERAL NOTES.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLUMBUSNATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
LEVEL 01 - FLOOR PLAN - FIRE PROTECTION

APRIL 4, 2022

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Proj. #20643

F101

PERMIT & BID SET

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Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
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Fax: (614) 486-4082

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1 PLAN LEVEL 02 - FLOOR PLAN - FIRE PROTECTION
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO SHEET F001 FOR GENERAL NOTES.

CODED NOTE LEGEND

1. REFER TO DETAIL ON SHEET F501.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
LEVEL 02 - FLOOR PLAN - FIRE PROTECTION

APRIL 4, 2022

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Proj. #20643

F102

PERMIT & BID SET

STATE OF OHIO 3/29/22 COLIN T. JOHNSTON E-74381 REGISTERED PROFESSIONAL ENGINEER

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

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1 PLAN LEVEL 03 - FLOOR PLAN - FIRE PROTECTION
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO SHEET F001 FOR GENERAL NOTES.
2. PROVIDE WET PIPE SPRINKLER PROTECTION FOR CONCEALED ATTIC SPACE ABOVE THIRD FLOOR. SPRINKLER PER LIGHT HAZARD OCCUPANCY REQUIREMENTS. INSULATION IS ATTACHED TO THE BOTTOM OF THE ROOF STRUCTURE.

CODED NOTE LEGEND

1. REFER TO DETAIL ON SHEET F501.
2. PROVIDE WET PIPE SPRINKLER PROTECTION FOR CONCEALED ATTIC SPACE ABOVE THIRD FLOOR. SPRINKLER PER LIGHT HAZARD OCCUPANCY REQUIREMENTS.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
LEVEL 03 - FLOOR PLAN - FIRE PROTECTION

APRIL 4, 2022

STATE OF OHIO — 3/29/22 — COLIN T. JOHNSON — 67480 — REGISTERED PROFESSIONAL ENGINEER

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Proj. #20643

F103

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ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

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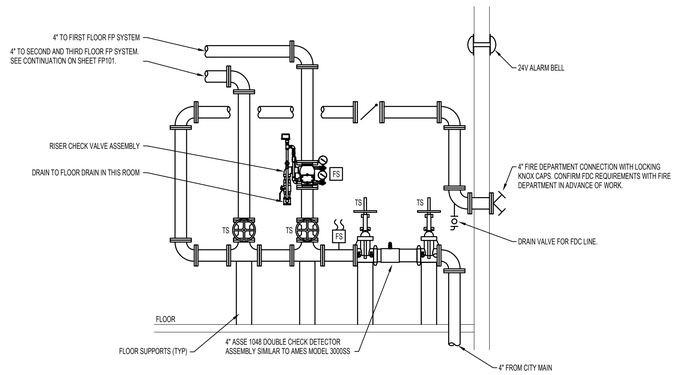
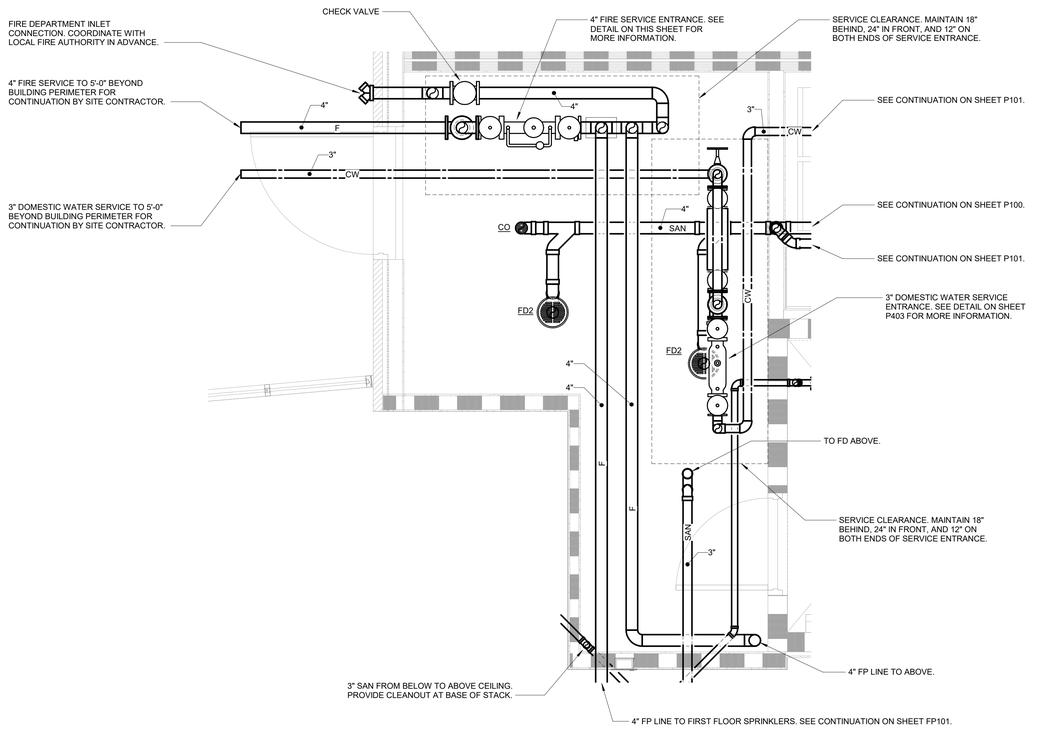


1 DETAIL - FIRE PROTECTION WATER SERVICE ENTRANCE

NTS



2 ENLARGED WATER SERVICE ROOM - FIRE PROTECTION

1/2" = 1'-0"

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

FLOOR PLAN GENERAL NOTES

1. REFER TO SHEET F001 FOR GENERAL NOTES.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLUMBUSMHA.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
ENLARGED MECHANICAL ROOM - FIRE PROTECTION

APRIL 4, 2022

DRAWN BY: **PM** | CHECKED BY: **BJ**

Proj. #20643

F401

PERMIT & BID SET

STATE OF OHIO 3/29/22 JOLIN 10.1.9.1 REGISTERED PROFESSIONAL ENGINEER

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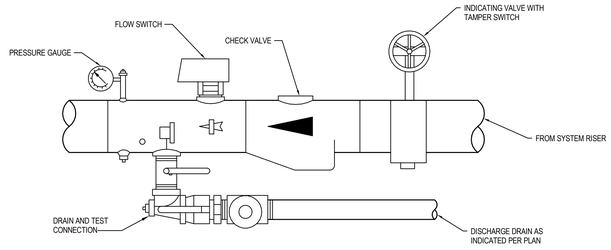


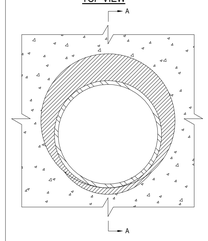
1 DETAIL - FLOOR ZONE CONTROL VALVE
12" = 1'-0"

UL/CUL SYSTEM NO. CAJ1154

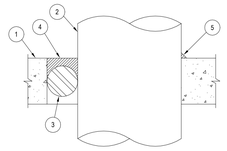
METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 3-HR
T RATING = 1/4-HR
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.

TOP VIEW



SECTION A-A



1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR. FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. BACKER ROD, HILTI CF 128 FILLER FOAM, OR MINERAL WOOL TO BE USED AS BACKER.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

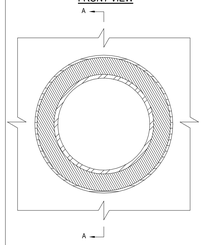
NOTES:
1. MAXIMUM DIAMTER OF OPENING = 14".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 3-1/4".
3. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.

UL/CUL SYSTEM NO. WL1092

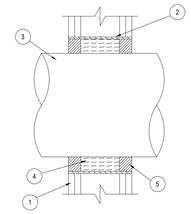
METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATING = 1-HR. OR 2-HR.
T RATING = 0-HR OR 1/4-HR.

FRONT VIEW

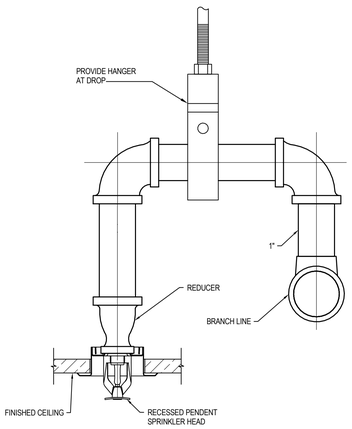


SECTION A-A

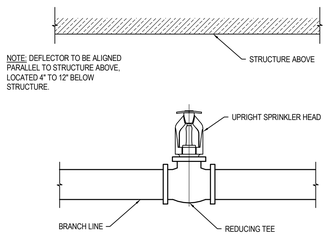


1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE-RATING) (2-HR SHOWN).
2. MAXIMUM 10" NOMINAL DIAMETER STEEL SLEEVE (MIN. 28 GA. SHEET METAL OR NO.8 STEEL WIRE MESH).
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 6" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 7 OR HEAVIER).
   C. MAXIMUM 4" NOMINAL DIAMTER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED (SEE NOTE NO. 2 BELOW).
5. MINIMUM 1-1/4" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.

NOTES:
1. MAXIMUM DIAMTER OF OPENING = 10".
2. THICKNESS OF MINERAL WOOL TO BE ONE OF THE FOLLOWING :
   A. MINIMUM 1-1/4" THICKNESS FOR A 1-HR. FIRE RATING.
   B. MINIMUM 2-1/2" THICKNESS FOR A 2-HR. FIRE-RATING.
3. ANNULAR SPACE = MINIMUM 1", MAXIMUM 2-3/8".



2 DETAIL - TYPICAL RECESSED PENDENT SPRINKLER
12" = 1'-0"



3 DETAIL - TYPICAL UPRIGHT SPRINKLER
12" = 1'-0"

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
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COLUMBUS, OH 43222
FOR
CMHA

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300 SPRUCE STREET
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DRAWING TITLE:

DETAILS - FIRE PROTECTION

APRIL 4, 2022

DRAWN BY: **PM** | CHECKED BY: **BJ**

Proj. #20643

F501

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ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	
(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
A	COMPRESSED AIR (SHOP AIR)
ABV	ABOVE
AE	ANESTHESIA EVACUATION
AFF	ABOVE FINISHED FLOOR
AMP	AMPERE
APPROX	APPROXIMATE
AR	ARGON
ARCH	ARCHITECT
AUTO	AUTOMATIC
AV	ACID VENT
AVG	AVERAGE
AW	ACID WASTE
BF	BELOW FLOOR
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BOP	BOTTOM OF PIPE
BT	BATHTUB
CAP	CAPACITY
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CONN	CONNECTION OR CONNECT
CONT	CONTINUATION
CS	CLINIC SINK
CU FT	CUBIC FEET
CU IN	CUBIC INCH
D	DRAIN
DEPT	DEPARTMENT
DIA	DIAMETER
DI	DEIONIZED WATER
DN	DOWN
DW	DISTILLED WATER
DWG	DRAWING
E	EMERGENCY FIXTURE
EL	ELEVATION
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXP	EXPANSION
EXIST	EXISTING
°F	DEGREES FAHRENHEIT
FD	FLOOR DRAIN
FIN FL EL	FINISHED FLOOR ELEVATION
FOD	FUEL OIL DISCHARGE
FOF	FUEL OIL FILL
FOG	FUEL OIL GAUGE LINE
FOO	FUEL OIL OVER FLOW LINE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL TANK VENT
FT	FOOT OR FEET
GA	GAUGE
GAL	GALLONS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HYDROGEN
HD	HEAD
HE	HELIUM
HGT	HEIGHT
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	HERTZ

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	
IN	INCHES
INV EL	INVERT ELEVATION
IW	INDIRECT WASTE
KW	KILOWATT
L	LAVATORY
LB	POUNDS
LF	LINEAR FEET
LG	LENGTH
LN	LIQUID NITROGEN
LOX	LIQUID OXYGEN
MA	COMPRESSED AIR (MEDICAL GAS)
MAX	MAXIMUM
MECH	MEHCANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MS	MOP SINK
MV	VACUUM (MEDICAL GAS)
N20	NITROUS OXIDE
N	NITROGEN
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO.	NUMBER
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
O	OXYGEN
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OS&Y	OUTSIDE STEM AND YOKE VALVE
PD	PUMPED DISCHARGE
PLBG	PLUMBING
PPM	PARTS PER MILLION
PR	FUEL POLISH RETURN
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PS	FUEL POLISH SUPPLY
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GUAGE
RCP	RECIRCULATING PUMP
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RO	REVERSE OSMOSIS WATER
S	SINK
SEC	SECOND
SH	SHOWER
SHT	SHEET
SPEC	SPECIFICATION
SRD	SECONDARY ROOF DRAIN
STSTL	STAINLESS STEEL
STD	STANDARD
STR	STRAINER
SW	SOFT POTABLE WATER
TE	TOP ELEVATION
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TOP	TOP OF PIPE
TWS	TEMPERED WATER SUPPLY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VOLT
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
W	WATER
WC	WATER CLOSET
WF	WASH FOUNTAIN

SYMBOLS LIST

PIPING

DOMESTIC HOT WATER	HW
DOMESTIC COLD WATER	CW
DOMESTIC HOT WATER RETURN	HWR
SANITARY	SAN
PUMP DISCHARGE	PD
VENT	V
NATURAL GAS	G
COMPRESSED AIR	CA
STORM	ST
SECONDARY STORM	SS

DESCRIPTION	2D SYMBOL	3D SYMBOL	
		PLAN VIEW	SECTION VIEW
DROP			
RISE			
TEE			
CAP			
GLOBE VALVE			
PLUG VALVE			
SOLENOID VALVE			
GAS PRESSURE REGULATOR			
PRESSURE REDUCING VALVE			
OUTSIDE STEM & YOKE VALVE			
BUTTERYFLY VALVE			
BALL VALVE			
CHECK VALVE			
BALANCE VALVE			
STRAINER			
UNION			
TEMPERATURE & PRESSURE RELIEF VALVE			
METER			
AQUASTAT			
THERMOMETER			
PRESSURE GAUGE WITH STOPCOCK			
REDUCED PRESSURE BACKFLOW PREVENTER			
PUMP			
WALL HYDRANT			
HOSE BIBB			
CLEANOUT	CO	CO	CO
CLEANOUT AT FLOOR OR AT GRADE	CO	CO	CO
FLOOR OR AREA DRAIN			
ROOF DRAIN			
DOWNSPOUT NOZZLE			

NOTATIONS

DETAIL/DOMESTIC WATER RISER — 1 / P-XXX

SANITARY STACK — A / P-XXX

GENERAL NOTES:

1. PROVIDE NEW DOMESTIC WATER, SANITARY WASTE, STORM DRAINAGE, NATURAL GAS FOR THIS BUILDING. PROVIDE ALL NECESSARY COMPONENTS FOR FULLY OPERATIONAL SYSTEM. INSTALL SYSTEMS IN ACCORDANCE WITH STATE REQUIREMENTS AND LOCAL AUTHORITY HAVING JURISDICTION.COORDINATE THE LOCATION OF ALL UTILITY CONNECTION POINTS, FLOOR DRAINS AND HUB DRAINS FOR EQUIPMENT WITH OTHER TRADES.
2. ALL FLOOR PENETRATIONS TO BE SEALED WATER TIGHT AND COMPLETELY PACKED WITH FIRE STOP MATERIAL BY TRADE CONTRACTORS.
3. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW THE EXACT LOCATIONS OF COMPONENTS, NOR SHOW ALL SYSTEM COMPONENTS. CONTRACTOR SHALL PROVIDE ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES.
4. DRAWINGS ARE NOT TO BE SCALED. DIMENSIONS SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE CONCERNING EXISTING AND NEW WORK BEFORE PROCEEDING WITH EITHER FABRICATION OR INSTALLATION IN MECHANICAL AREAS WITH NUMEROUS OBSTRUCTIONS INCLUDING DUCTWORK, EQUIPMENT AND PIPING. THIS WILL REQUIRE ON SITE CUTTING AND VERIFICATION.
5. ANY INFORMATION CONFLICTS BETWEEN THE SPECIFICATIONS AND DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION. THE CONTRACTOR(S) SHALL NOT PROCEED WITH ANY WORK, EXCEPT AT THEIR OWN RISK, UNTIL CLARIFICATIONS OF THE CONFLICTS ARE ISSUED TO THE CONTRACTOR(S) BY THE ENGINEER.
6. THE TERM "PROVIDE" SHALL MEAN THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT FOR A COMPLETE AND OPERATIONAL SYSTEM.
7. ALL MATERIAL AND LABOR SHALL BE UNDER WARRANTY FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. ANY NEW DEVICES OR EQUIPMENT FOUND FAULTY SHALL BE REPLACED AS PART OF THE WARRANTY.
8. A SET OF APPROVED DRAWINGS SHALL BE MAINTAINED ON SITE AND ALL FIELD CHANGES SHALL BE RED LINED ON THE DRAWINGS. CONTRACTOR SHALL PREPARE "AS-BUILT" DRAWINGS IN ELECTRONIC (AUTOCAD) FORMAT, REFLECTING ACCURATE FIELD CONDITIONS.
9. ALL PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION SHALL BE PROVIDED A UL LISTED THROUGH PENETRATION FIRESTOP ASSEMBLY. THE RATINGS OF ALL FIRESTOP ASSEMBLIES SHALL BE GREATER THAN OR EQUAL TO THE RATING OF THE PENETRATED BARRIER.
10. CORE DRILL PENETRATIONS IN CONCRETE FLOORS OR WALLS 1-2 INCHES LARGER THAN THE PIPE DIAMETER OF THE PENETRATING PIPE.
11. DUCTWORK, PIPING, MECHANICAL EQUIPMENT AND CEILINGS SHALL NOT BE UTILIZED AS LADDERS, SCAFFOLDING OR WORK PLATFORMS.
12. NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED, OR BURNED WITHOUT THE KNOWLEDGE AND WRITTEN APPROVAL OF THE OWNER.
13. EQUIPMENT, MATERIALS, INSTALLATION WORKMANSHIP, EXAMINATION AND TESTING SHALL BE IN ACCORDANCE WITH CURRENT PLUMBING CODE. INSTALL PIPING STRAIGHT AND TRUE TO BEAR EVENLY ON HANGARS AND SUPPORTS. PIPE SHALL NOT INTERFERE WITH OTHER EQUIPMENT AND CONSTRUCTION.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLS, DUCTS, STRUCTURAL MEMBERS, MECHANICAL EQUIPMENT AND PIPES.
15. NO FABRICATION OR INSTALLATION IS ALLOWED WITHOUT APPROVED SHOP DRAWING SUBMITTALS.
16. CONTRACTOR SHALL SUBMIT SYSTEM CATALOG PRODUCT DATA SHEETS OF ALL COMPONENTS PROPOSED FOR USE PRIOR TO INSTALLATION FOR APPROVAL. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.
17. ALL MATERIALS AND EQUIPMENT SHALL BE NEW.
18. PIPING SHALL NOT SHARE SUPPORTS WITH OTHER BUILDING SYSTEMS. IN MECHANICAL AREAS, PIPING SHALL NOT BE ATTACHED TO THE DUCT WORK. STANCHIONS SHALL BE USED WHERE PIPING IS UNABLE TO BE HUNG FROM ABOVE.
19. PIPING IN AREAS WITH FINISHED CEILINGS SHALL BE INSTALLED ABOVE FINISHED CEILINGS.
20. CONTRACTOR SHALL PROVIDE LABELS (WITH FLOW ARROWS) FOR ALL PIPING.
21. PIPING SHALL NOT BE INSTALLED PASSING THROUGH ELECTRICAL ROOMS OR OVER ELECTRICAL PANELS / EQUIPMENT WHICH SERVES OTHER AREAS. COORDINATE THE LOCATION OF ALL PIPING WITH ELECTRICAL EQUIPMENT AND OTHER TRADES AND ADJUST AS NECESSARY.
22. MAKE REASONABLE AND NECESSARY MODIFICATIONS IN LAYOUTS AND COMPONENTS NEEDED TO PREVENT CONFLICTS WITH WORK OF OTHER TRADES AND TO COORDINATE IN ACCORDANCE WITH SPECIFICATIONS.
23. MAINTAIN MAXIMUM HEADROOM AT ALL LOCATIONS. ALL PIPING TO BE AS TIGHT TO THE UNDERSIDE OF DECK AS POSSIBLE. AL EXPOSED PIPING SHALL BE APPROVED BY ARCHITECT AND SHALL MAINTAIN REQUIRED CLEARANCES.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
GENERAL INFORMATION - PLUMBING

APRIL 4, 2022

DRAWN BY: **PM** | CHECKED BY: **BJ**

Proj. #20643

P001

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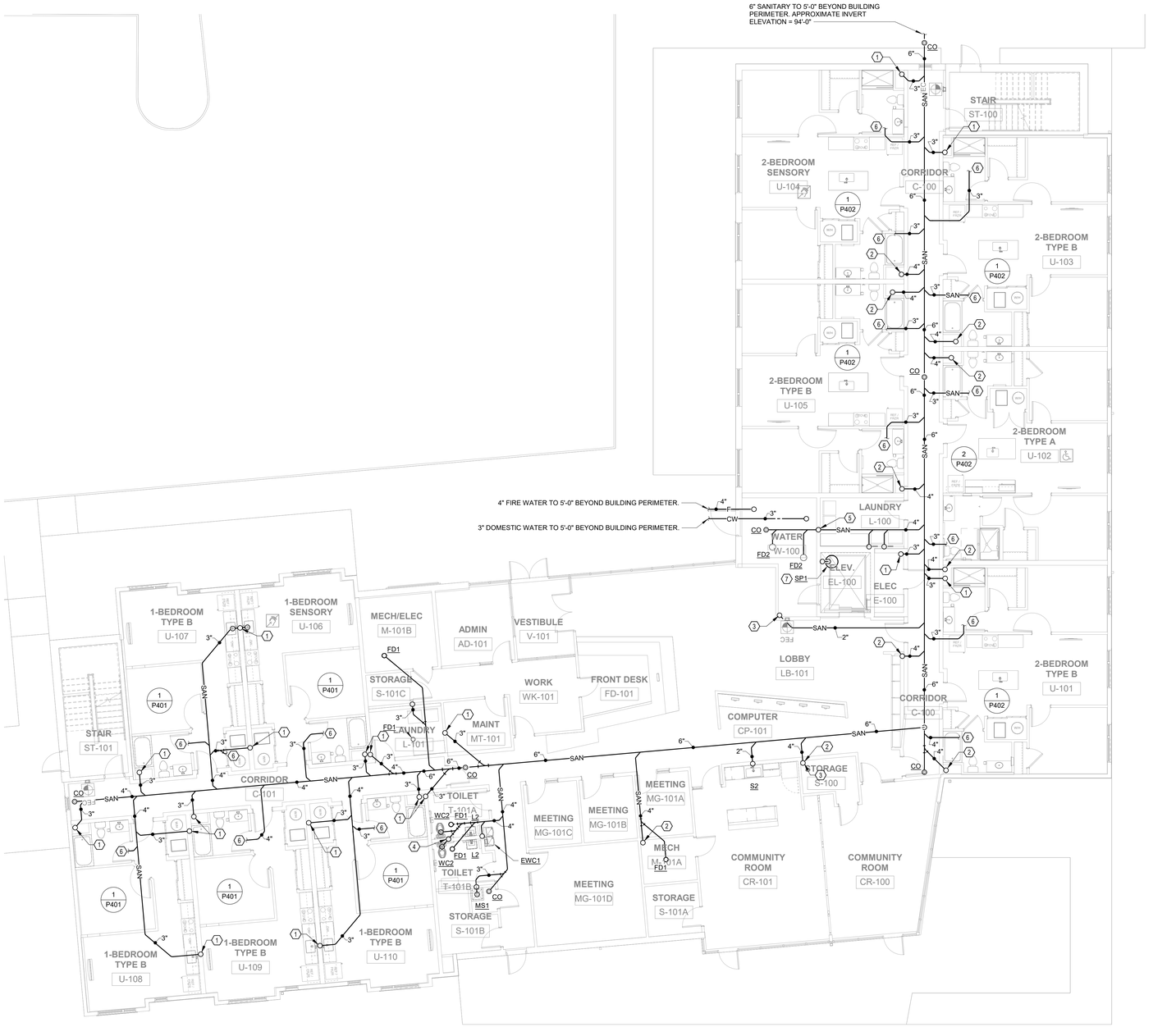

1 PLAN LEVEL 00 - FLOOR PLAN - PLUMBING
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEET P001 FOR ADDITIONAL INFORMATION.
2. COORDINATE UNDERGROUND PIPING WITH RADON SYSTEM CONTRACTOR.

CODED NOTE LEGEND

1. 3" SANITARY FROM ABOVE.
2. 4" SANITARY FROM ABOVE.
3. 2" SANITARY FROM ABOVE.
4. 2" VENT TO ABOVE.
5. 3" VENT TO ABOVE.
6. SEE ENLARGED PLAN FOR CONTINUATION.
7. EXTEND 2" SUMP PUMP DISCHARGE TO MOP SINK ON SECOND FLOOR. SEE DETAIL ON SHEET P501.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
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DRAWING TITLE:
LEVEL 00 - FLOOR PLAN - PLUMBING

APRIL 4, 2022

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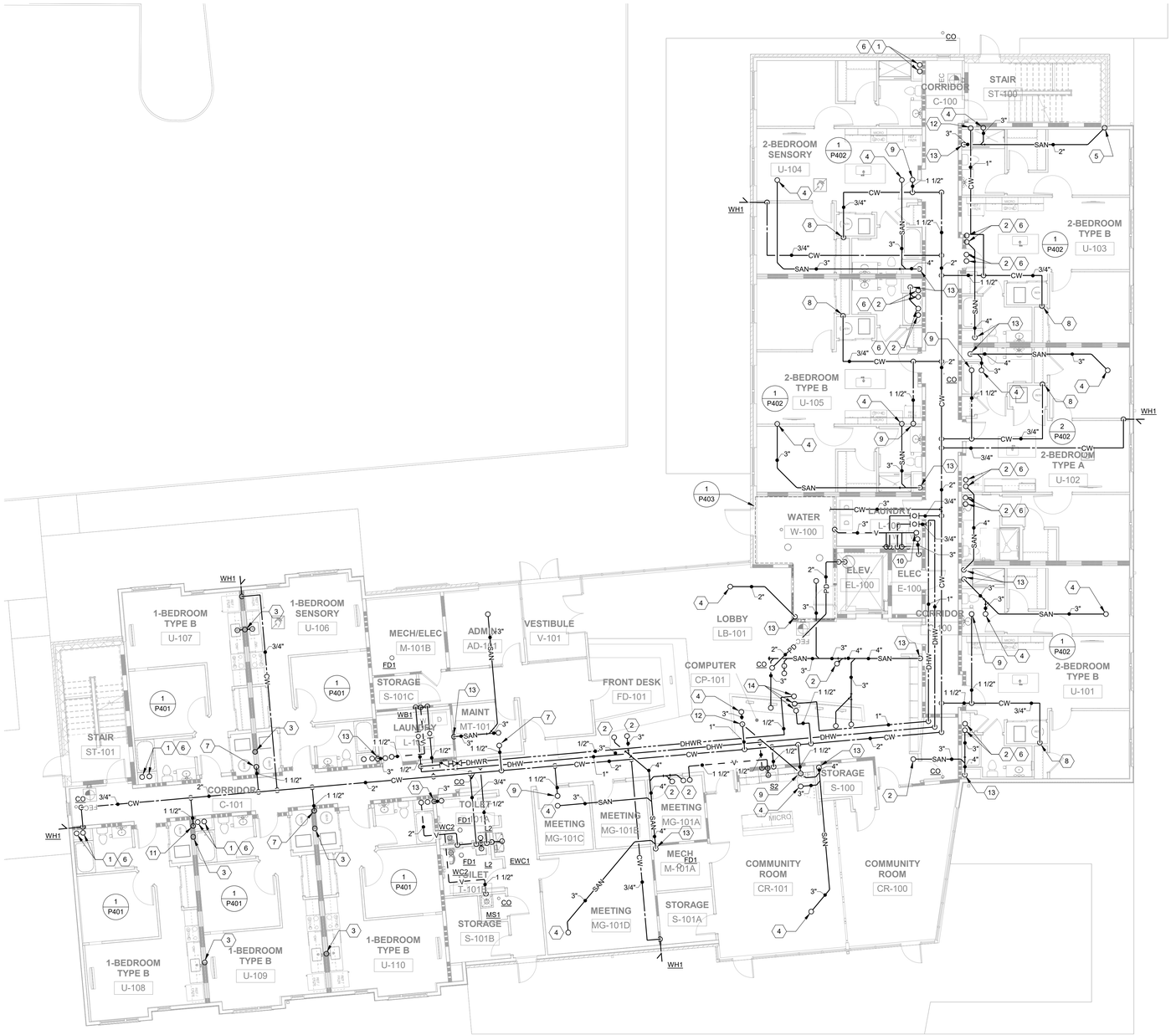

1 PLAN LEVEL 01 - FLOOR PLAN - PLUMBING
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEET P001 FOR ADDITIONAL INFORMATION.
2. COORDINATE ALL ABOVE CEILING WORK WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

CODED NOTE LEGEND

1. 3" STACK TO BELOW. PROVIDE CLEANOUT AT BASE OF STACK.
2. 3" STACK FROM SECOND FLOOR TO ABOVE FIRST FLOOR CEILING. EXTEND AS SHOWN.
3. 3" COMBINATION WASTE STACK/VENT IN WALL FROM ABOVE TO BELOW SLAB.
4. 3" COMBINATION WASTE STACK/VENT FROM SECOND FLOOR TO ABOVE FIRST FLOOR CEILING. EXTEND AS SHOWN.
5. 2" COMBINATION WASTE STACK/VENT FROM SECONF FLOOR TO ABOVE FIRST FLOOR CEILING. EXTEND AS SHOWN.
6. 2" VENT STACK TO ABOVE.
7. 1-1/2" CW RISER TO ABOVE. 1" CW DOWN IN WALL WITH 3/4" CW TO EACH UNIT. SEE UNIT WATER SUPPLY DETAIL ON SHEET P501.
8. 3/4"" CW DOWN IN WALL TO UNIT. SEE UNIT WATER SUPPLY DETAIL ON SHEET P501.
9. 1-1/2" CW RISER TO ABOVE.
10. 3" VENT STACK TO ABOVE.
11. 1" CW RISER TO ABOVE. 3/4" CW DOWN IN WALL TO THIS UNIT. SEE UNIT WATER SUPPLY DETAIL ON SHEET P501.
12. 1" CW RISER TO ABOVE.
13. SAN FROM ABOVE FIRST FLOOR CEILING DOWN TO BELOW SLAB. PROVIDE CLEANOUT AT BASE OF STACK. SIZE AS SHOWN ON PLANS.
14. 1/2" HWR TO ABOVE, 1-1/2" CW TO ABOVE, AND 1" HW FROM ABOVE.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLUMBUSHOUSING.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
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DRAWING TITLE:
LEVEL 01 - FLOOR PLAN - PLUMBING

APRIL 4, 2022
DRAWN BY: **PM** | CHECKED BY: **BJ**
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1 PLAN — LEVEL 02 - FLOOR PLAN - PLUMBING

1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEET P001 FOR ADDITIONAL INFORMATION.
2. COORDINATE ALL ABOVE CEILING WORK WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

CODED NOTE LEGEND

1. 2" VENT STACK AND 3" SANITARY STACK.
2. 3" COMBINATION WASTE/VENT STACK.
3. 2" COMBINATION WASTE/VENT STACK.
4. 1-1/2" CW UP FROM BELOW. 3/4" CW TO EACH UNIT ON THIS FLOOR. 1" CW UP TO ABOVE. SEE UNIT WATER SUPPLY DETAIL ON SHEET P501.
5. 1" CW UP FROM BELOW. 3/4" CW TO UNIT ON THIS FLOOR. 3/4" CW UP TO ABOVE. SEE UNIT WATER SUPPLY DETAIL ON SHEET P501.
6. 1/2" CW AND HW DOWN TO MOP SINK ON THIS FLOOR AND UP TO MOP SINK ON FLOOR ABOVE.
7. REFER TO DETAIL '4' ON SHEET P501.
8. 2" PUMP DISCHARGE FROM BELOW. EXTEND TO MOP SINK.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
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DRAWING TITLE:
LEVEL 02 - FLOOR PLAN - PLUMBING

APRIL 4, 2022

DRAWN BY: **PM** | CHECKED BY: **BJ**

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1 PLAN LEVEL 03 - FLOOR PLAN - PLUMBING
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEET P001 FOR ADDITIONAL INFORMATION.
2. COORDINATE ALL ABOVE CEILING WORK WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

CODED NOTE LEGEND

1. 2" VENT STACK FROM BELOW. EXTEND ABOVE CEILING AS SHOWN.
2. 3" COMBINATION WASTE/VENT STACK FROM BELOW. EXTEND VENT ABOVE CEILING AS SHOWN.
3. 2" COMBINATION WASTE/VENT STACK FROM BELOW. EXTEND VENT ABOVE CEILING AS SHOWN.
4. 1" CW FROM BELOW. 3/4" CW TO EACH UNIT ON THIS FLOOR. SEE UNIT WATER SUPPLY DETAIL ON SHEET P501.
5. 3/4" CW FROM BELOW TO UNIT ON THIS FLOOR. SEE UNIT WATER SUPPLY DETAIL ON SHEET P501.
6. 1" CW FROM BELOW. 3/4" CW TO EACH UNIT ON THIS FLOOR. SEE UNIT WATER SUPPLY DETAIL ON SHEET P501. 1" CW TO ABOVE CEILING. EXTEND AS SHOWN.

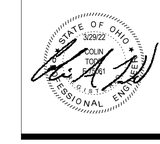
#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
LEVEL 03 - FLOOR PLAN - PLUMBING



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DRAWN BY: **PM** CHECKED BY: **BJ**
Proj. #20643
P103
PERMIT & BID SET

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1 **PLAN** ROOF PLAN - PLUMBING
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO SHEET P001 FOR GENERAL NOTES.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
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COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

ROOF PLAN - PLUMBING

STATE OF OHIO 3/29/22 COLIN 10260 REGISTERED PROFESSIONAL ENGINEER

APRIL 4, 2022

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P104

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1 LEVEL 00 FLOOR PLAN - RADON SYSTEM

1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. RADON MITIGATION SYSTEM DESIGNED, PROVIDED, AND INSTALLED BY THE LICENSED RADON MITIGATION SPECIALIST CONTRACTOR, SEPARATE FROM THE PLUMBING CONTRACT. EXACT LOCATION, SIZES, AND ELEVATIONS OF RADON MITIGATION PIPING, EQUIPMENT, AND ACCESSORIES SHALL BE DETERMINED BY THE LICENSED RADON MITIGATION SPECIALIST CONTRACTOR. INSTALLATION OF ALL PLUMBING PIPING, EQUIPMENT, ACCESSORIES, ETS. TO BE COORDINATED IN-FIELD WITH THE LICENSED RADON MITIGATION SPECIALIST IN ADVANCE OF WORK. PLUMBING PIPING PENETRATIONS THROUGH THE BUILDING FLOORS AND SLAB TO BE SEALED PER THE RADON MITIGATION SPECIALIST CONTRACTOR'S SPECIFICATIONS/DIRECTION.
2. RADON PIPING SHOWN FOR REFERENCE ONLY.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLUMBUSMHA.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
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DRAWING TITLE:
RADON SYSTEM PLAN - PLUMBING

APRIL 4, 2022

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P201

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STATE OF OHIO
3/29/22
COLIN T. BOYD
REGISTERED
PROFESSIONAL ENGINEER

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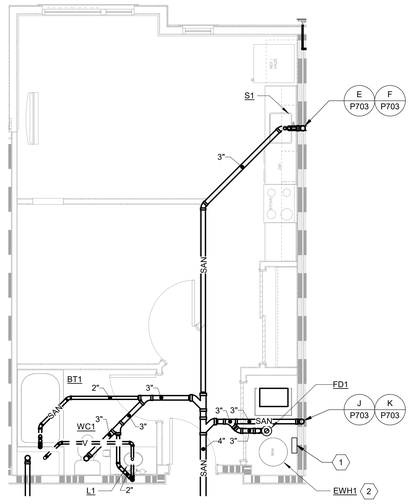
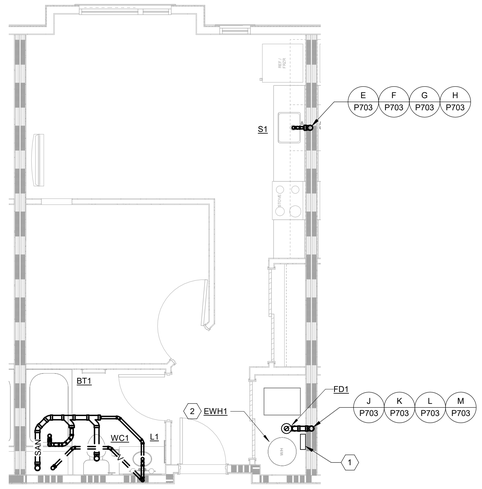


1 ENLARGED FIRST FLOOR 1-BEDROOM PLUMBING PLAN

1/4" = 1'-0"

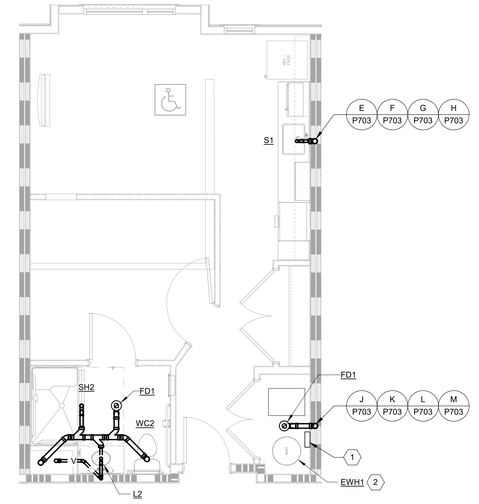
NOTE: APPLIES TO 1-BEDROOM TYPE B AND 1-BEDROOM SENSORY UNITS ON THE FIRST FLOOR.



2 ENLARGED UPPER FLOOR 1-BEDROOM PLUMBING PLAN

1/4" = 1'-0"

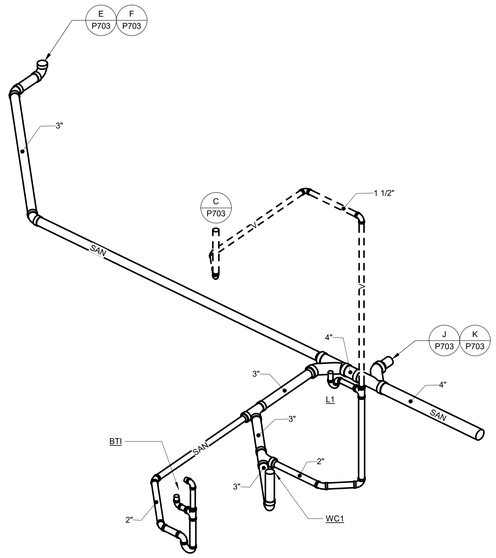
NOTE: APPLIES TO 1-BEDROOM TYPE B AND 1-BEDROOM SENSORY UNITS ON THE SECOND AND THIRD FLOORS.



3 ENLARGED UPPER FLOOR 1-BEDROOM ADA PLUMBING PLAN

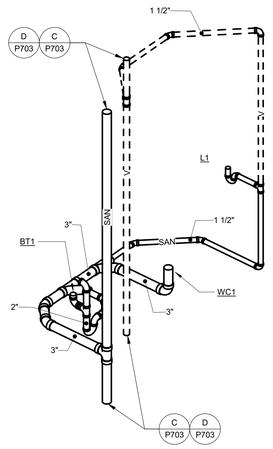
1/4" = 1'-0"

NOTE: APPLIES TO 1-BEDROOM TYPE A UNITS ON THE SECOND AND THIRD FLOORS.



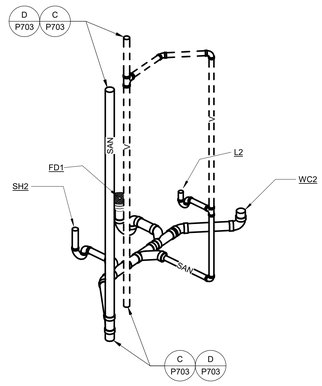
N STACK N

NOTE: APPLIES TO 1-BEDROOM TYPE B AND 1-BEDROOM SENSORY UNITS ON THE FIRST FLOOR.



P STACK P

NOTE: APPLIES TO 1-BEDROOM TYPE B AND 1-BEDROOM SENSORY UNITS ON THE SECOND AND THIRD FLOORS.



Q STACK Q

NOTE: APPLIES TO 1-BEDROOM TYPE A UNITS ON THE SECOND AND THIRD FLOORS.

FLOOR PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEET P001 FOR ADDITIONAL INFORMATION.
2. COORDINATE ALL ABOVE CEILING WORK WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

CODED NOTE LEGEND

1. PEX MANIFOLD ON WALL BEHIND WATER HEATER. EXTEND PEX PIPING TO ALL FIXTURES REQUIRING WATER. SEE DETAIL ON SHEET P501.
2. REFER TO DETAIL "1" ON SHEET P501.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

ENLARGED PLANS - PLUMBING

APRIL 4, 2022

DRAWN BY: **PM** | CHECKED BY: **BJ**

Proj. #20643

P401

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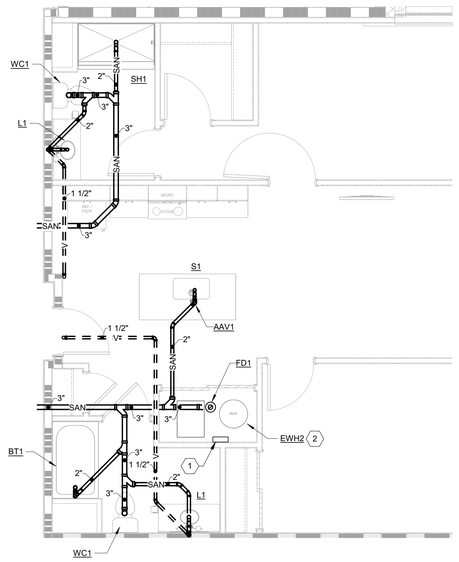
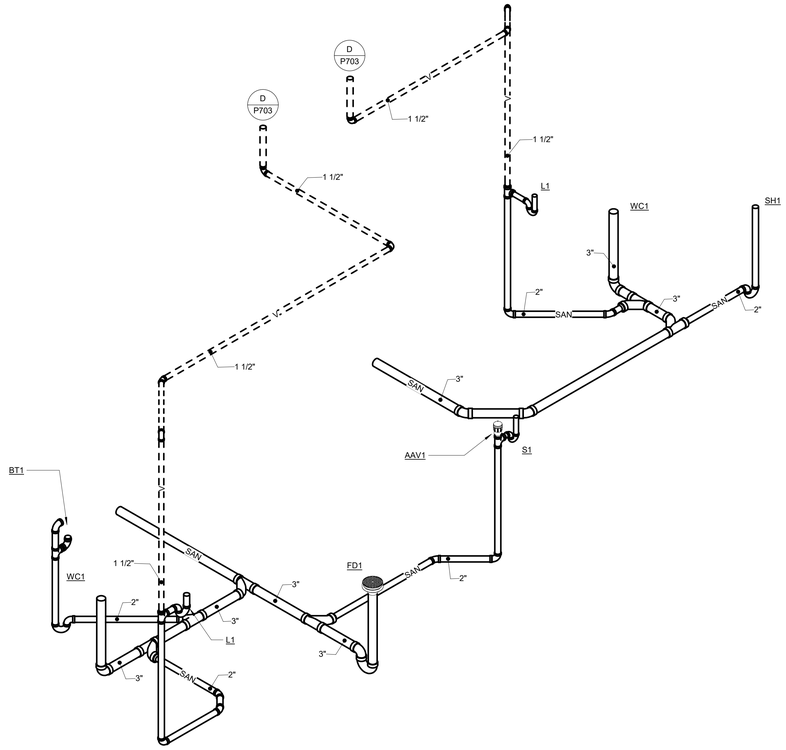


1 ENLARGED FIRST FLOOR 2-BEDROOM PLUMBING PLAN

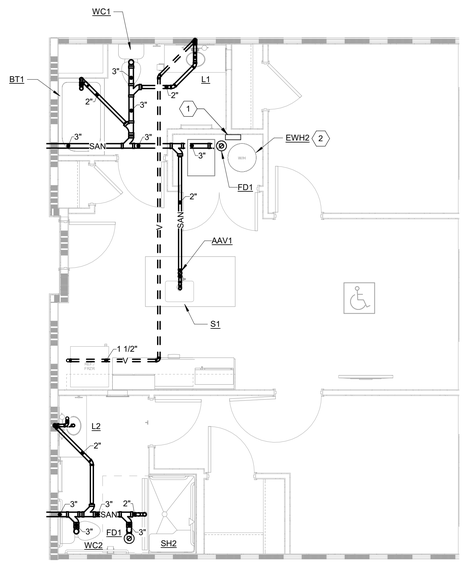
1/4" = 1'-0"

NOTE: APPLIES TO 2-BEDROOM TYPE B AND 2-BEDROOM SENSORY UNITS ON THE FIRST FLOOR.



R STACK R

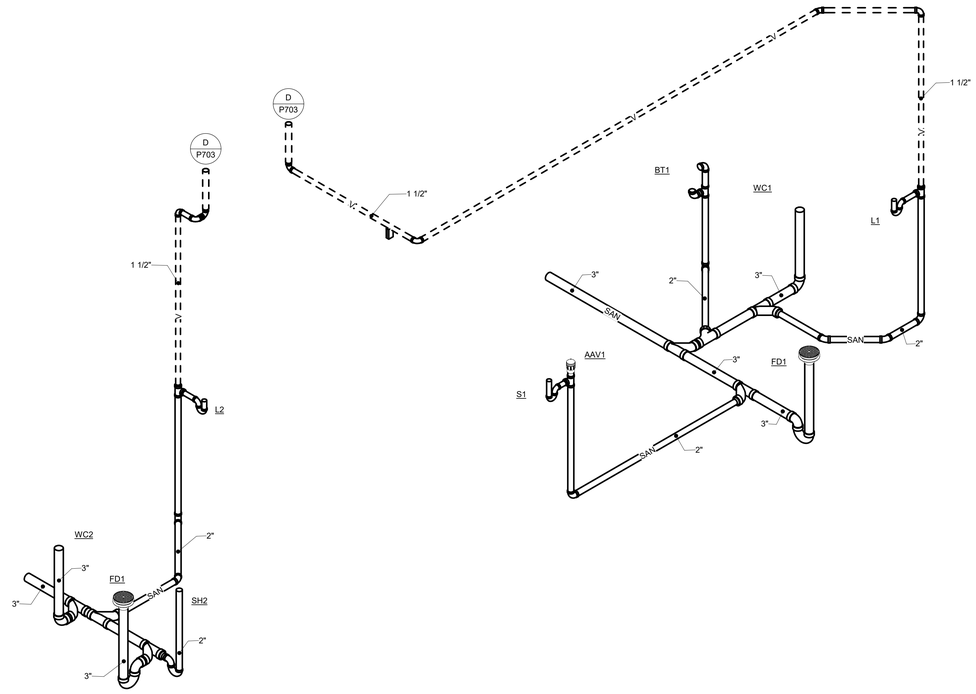
NOTE: APPLIES TO 2-BEDROOM TYPE B AND 2-BEDROOM SENSORY UNITS ON THE FIRST FLOOR.



2 ENLARGED FIRST FLOOR 2-BEDROOM ADA PLUMBING PLAN

1/4" = 1'-0"

NOTE: APPLIES TO 2-BEDROOM TYPE A UNITS ON THE FIRST FLOOR.



S STACK S

NOTE: APPLIES TO 2-BEDROOM TYPE A UNITS ON THE FIRST FLOOR.

FLOOR PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEET P001 FOR ADDITIONAL INFORMATION.
2. COORDINATE ALL ABOVE CEILING WORK WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

CODED NOTE LEGEND

1. PEX MANIFOLD ON WALL BEHIND WATER HEATER. EXTEND PEX PIPING TO ALL FIXTURES REQUIRING WATER. SEE DETAIL ON SHEET P501.
2. REFER TO DETAIL ON SHEET P501.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

ENLARGED PLANS - PLUMBING

APRIL 4, 2022

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P402

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STATE OF OHIO · 3/29/22 · COLIN T. BOYD · E-67801 · REGISTERED PROFESSIONAL ENGINEER

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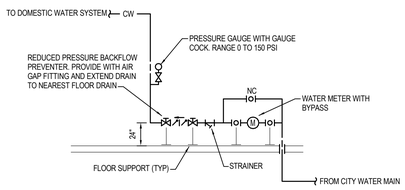
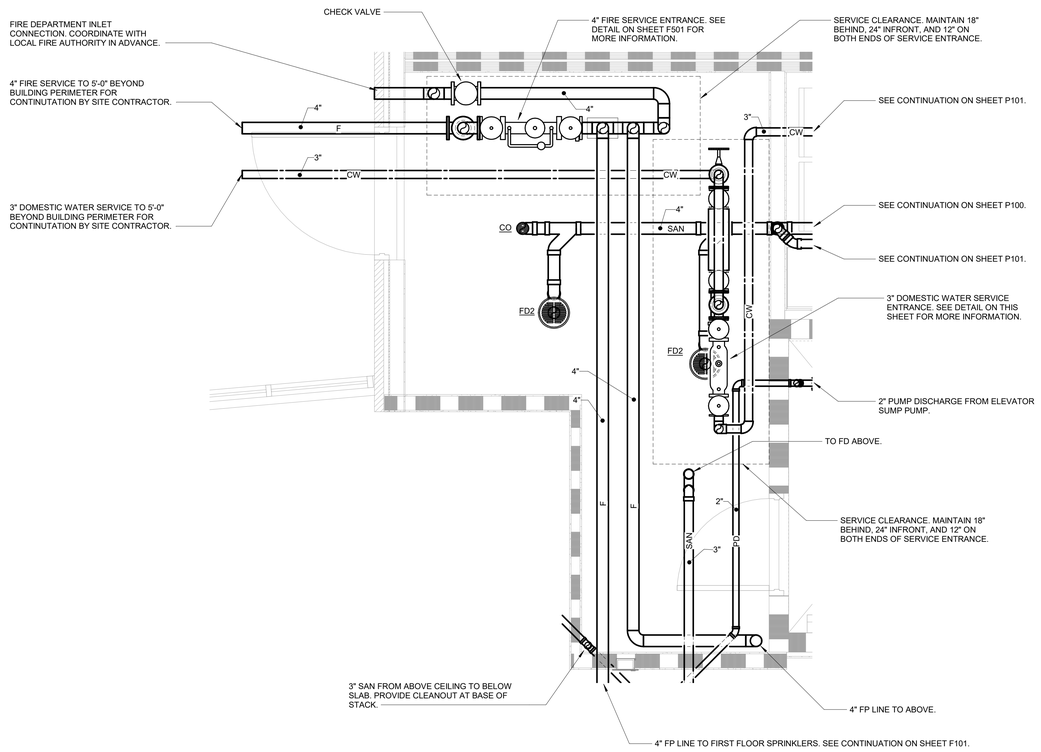


2 DETAIL - DOMESTIC WATER SERVICE ENTRANCE
NTS



1 ENLARGED WATER SERVICE ROOM - PLUMBING
1/2" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEET P001 FOR ADDITIONAL INFORMATION.

#	DATE	CHANGE DESCRIPTION

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
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FAX: (614) 280-8881

DRAWING TITLE:
ENLARGED MECHANICAL ROOM - PLUMBING

APRIL 4, 2022

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Proj. #20643

P403

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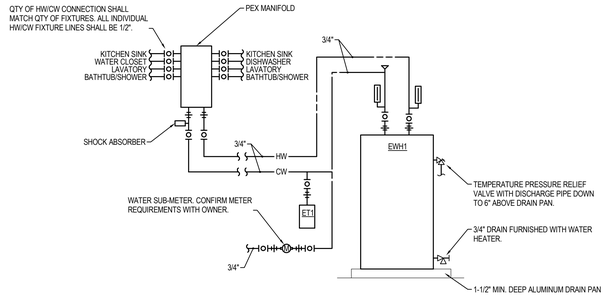
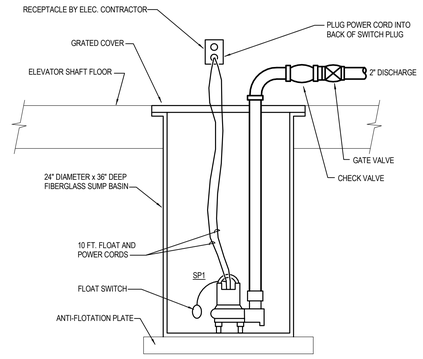
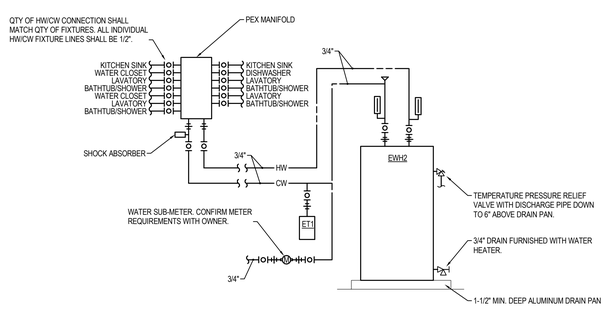


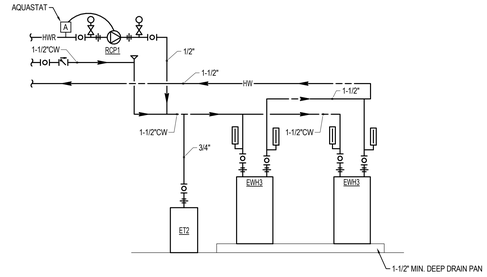
1 DETAIL - 1 BATH UNIT WATER SUPPLY
NTS



3 DETAIL - ELEVATOR SUMP PUMP
NTS



2 DETAIL - 2 BATH UNIT WATER SUPPLY
NTS



4 DETAIL - HOUSE WATER HEATERS
NTS

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

DETAILS - PLUMBING

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Fax: (614) 486-4082

STATE OF OHIO
3/29/22
COLIN TOOKEY
PROFESSIONAL ENGINEER

APRIL 4, 2022

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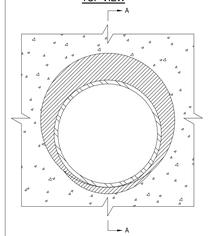
UL/CUL SYSTEM NO. CAJ1154

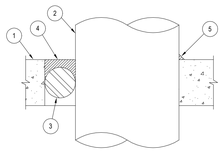
METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 3-HR
T RATING = 1/4-HR
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.

TOP VIEW



SECTION A-A



1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR. FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. BACKER ROD, HILTI CF 128 FILLER FOAM, OR MINERAL WOOL TO BE USED AS BACKER.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

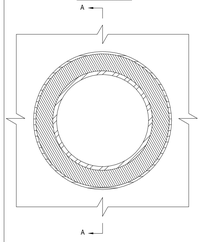
NOTES:
1. MAXIMUM DIAMTER OF OPENING = 14".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 3-1/4".
3. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.

UL/CUL SYSTEM NO. WL1092

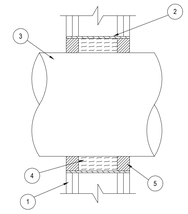
METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATING = 1-HR. OR 2-HR.
T RATING = 0-HR OR 1/4-HR.

FRONT VIEW



SECTION A-A



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE-RATING) (2-HR SHOWN).
2. MAXIMUM 10" NOMINAL DIAMETER STEEL SLEEVE (MIN. 28 GA. SHEET METAL OR NO.8 STEEL WIRE MESH).
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 6" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 7 OR HEAVIER).
   C. MAXIMUM 4" NOMINAL DIAMTER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED (SEE NOTE NO. 2 BELOW).
5. MINIMUM 1-1/4" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.

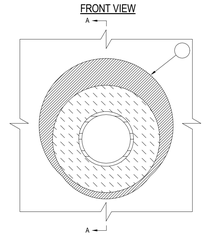
NOTES:
1. MAXIMUM DIAMTER OF OPENING = 10"
2. THICKNESS OF MINERAL WOOL TO BE ONE OF THE FOLLOWING :
   A. MINIMUM 1-1/4" THICKNESS FOR A 1-HR. FIRE RATING.
   B. MINIMUM 2-1/2" THICKNESS FOR A 2-HR. FIRE-RATING.
3. ANNULAR SPACE = MINIMUM 1", MAXIMUM 2-3/8".

UL/CUL SYSTEM NO. WAL-6039

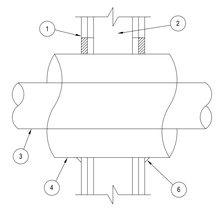
INSULATED METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATING = 1-HR. AND 2-HR
T RATING = 1/2-HR., 3/4 HR., 1-HR., AND 1-3/4 HR. (SEE U.L. FIRE RESISTANCE DIRECTORY)
L RATING AT AMBIENT = 4 CFM/SQ. FT.
L RATING AT 400°F = LESS THAN 1 CFM/SQ. FT.

FRONT VIEW



SECTION A-A



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 20 OR HEAVIER).
   B. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. MAXIMUM 2" THICK GLASS-FIBER PIPE INSULATION.
5. MINIMUM 5/8" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
6. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

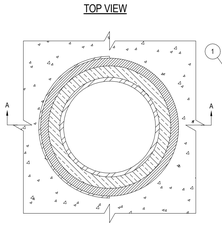
NOTES:
1. MAXIMUM DIAMETER OF OPENING = 18".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-7/8".

UL/CUL SYSTEM NO. CAJ5091

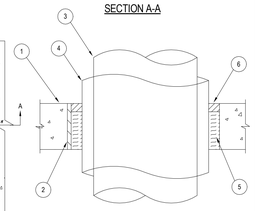
INSULATED METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 2-HR
T RATING = 1-HR
L RATING AT AMBIENT = 4 CFM/SQ. FT.
L RATING AT 400°F = LESS THAN 1 CFM/SQ. FT.

TOP VIEW



SECTION A-A



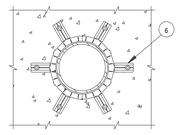
1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR. FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. BACKER ROD, HILTI CF 128 FILLER FOAM, OR MINERAL WOOL TO BE USED AS BACKER.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMTER OF OPENING = 20".
2. ANNULAR SPACE = MINIMUM 1/2", MAXIMUM 2-1/4".
3. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL.

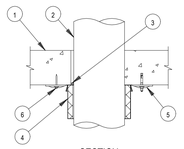
U.L. SYSTEM NO. CAJ2109

PLASTIC PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 3-HR.
T RATING = 0, 2, AND 3-HR. (SEE U.L. FIRE RESISTANCE DIRECTORY VOL. 2)



PLAN VIEW



SECTION

1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MIN. 4-1/2" THICK).
   B. ANY U.L. CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (ALSO SEE NOTE NO. 3 BELOW):
   A. MAXIMUM 6" DIAMETER PVC PLASTIC PIPE (CELLULAR AND SOLID CORE).
   B. MAXIMUM 6" DIAMETER ABS PLASTIC PIPE (CELLULAR AND SOLID CORE).
   C. MAXIMUM 6" DIAMETER FRPP PLASTIC PIPE.
   D. MAXIMUM 6" DIAMETER CPVC PLASTIC PIPE.
3. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
4. HILTI CP 642 OR HILTI CP 643 FIRESTOP COLLAR (SEE TABLE BELOW).
5. MOUNTING TAB FOR HILTI CP 642 OR HILTI CP 643 FIRESTOP COLLAR.
6. HILTI POWDER ACTUATED FASTENERS (X-ZF 27 PINS WITH WASHERS) OR 1/4" HILTI KWIK-BOLT II ANCHORS TO FASTEN EACH MOUNTING TAB.

PIPE DIAMETER	PRODUCT DESCRIPTION	NO. OF MOUNTING TABS	MAX. HOLE SIZE
1-1/2"	CP 643 50/1.5"	2	2-1/8"
2"	CP 643 63/2"	2	2-5/8"
3"	CP 643 90/3"	3	4"
4"	CP 643 110/4"	3	5"
6"	CP 642 160/6"	6	7"

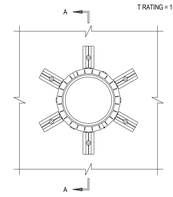
NOTES: 1. HILTI CP 642/643 FIRESTOP COLLARS ARE REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/2".
3. CLOSED OR VENTED PIPING SYSTEMS. (PVC, ABS, FRPP = SCHEDULE 40, CPVC = SDR 17).

U.L. SYSTEM NO. WL2078

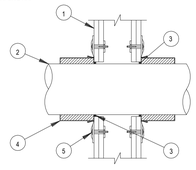
PLASTIC PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATING = 1-HR. OR 2-HR.
T RATING = 1-HR. OR 2-HR.

FRONT VIEW



SECTION A-A



1. GYPSUM WALL ASSEMBLY (U.L. CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE-RATING) (2-HR SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (SEE NOTE NO. 3 BELOW):
   A. MAXIMUM 6" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR OR SOLID CORE).
   B. MAXIMUM 6" NOMINAL DIAMETER ABS PLASTIC PIPE (CELLULAR OR SOLID CORE).
   C. MAXIMUM 6" NOMINAL DIAMETER FRPP PLASTIC PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER CPVC PLASTIC PIPE.
3. SEE NOTE NO. 1 BELOW
4. HILTI CP 642 OR HILTI CP 643 FIRESTOP COLLAR (SEE TABLE BELOW).
5. FASTEN EACH MOUNTING TAB TO WALL ASSEMBLY WITH HILTI 1/4" TOGGLER BOLT.

PIPE DIAMETER	PRODUCT DESCRIPTION	NO. OF MOUNTING TABS	MAX. HOLE SIZE
1-1/2"	CP 643 50/1.5"	2	2-1/8"
2"	CP 643 63/2"	2	2-5/8"
3"	CP 643 90/3"	3	4"
4"	CP 643 110/4"	3	5"
6"	CP 642 160/6"	6	7"

NOTES : 1. TO IMPEDE COLD SMOKE, PROVIDE 1/4" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IN ANNULAR SPACE AROUND PLASTIC PIPE.
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/2".
3. CLOSED OR VENTED PIPING SYSTEMS. (ABS, PVC, FRPP = SCHEDULE 40, CPVC= SDR 17).

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

DETAILS - PLUMBING

STATE OF OHIO — 3/29/22 — COLIN TODD JOHNSTON — 10-18-13 — PROFESSIONAL ENGINEER

APRIL 4, 2022

DRAWN BY: **PM** | CHECKED BY: **BJ**

Proj. #20643

P502

PERMIT & BID SET

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
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PRINT DATE: 3/31/2022 10:48:02 AM
FILE INFO: C:\Users\monique\Documents\20643 Hamels Hope FSH_MEP -01_Monique.Caldwell.rvt

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PLUMBING FIXTURE ROUGH-IN SCHEDULE

FIXTURE	WASTE	TRAP	VENT	COLD	HOT	TEMPERED
WC	3"	INTEGRAL	2"	1/2"	NA	NA
L	1-1/2"	1-1/4"x1-1/2"	1-1/2"	1/2"	1/2"	NA
SH	3"	3"	1-1/2"	1/2"	1/2"	NA
BT	3"	3"	1-1/2"	1/2"	1/2"	NA
MS	3"	3"	1-1/2"	1/2"	1/2"	NA
EWC	1-1/2"	1-1/4"x1-1/2"	1-1/2"	1/2"	N/A	NA
SH	1-1/2"	1-1/2"x1-1/2"	1-1/2"	1/2"	1/2"	NA
FD1	3"	3"	1-1/2"	NA	NA	NA
FD2	4"	4"	2"	NA	NA	NA
WH1	NA	NA	NA	3/4"	NA	NA
RH1	NA	NA	NA	1"	NA	NA

WATER HAMMER ARRESTOR SCHEDULE

TAG	INLET PIPE SIZE	FIXTURE UNIT RATING	REMARKS
A	3/4"	1 - 11	PDI CERTIFIED
B	1"	12 - 32	PDI CERTIFIED
C	1"	33 - 60	PDI CERTIFIED
D	1"	61 - 113	PDI CERTIFIED
E	1"	114 - 154	PDI CERTIFIED
F	1"	155 - 330	PDI CERTIFIED

NOTES:

1. INSTALL ARRESTOR IN UPRIGHT POSITION BEFORE LAST FLUSH VALVED FIXTURE AND ON MAIN COLD WATER PIPE HEADER
2. INSTALL SHUT-OFF VALVE BEFORE ARRESTOR.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE DESCRIPTION	MANUFACTURER	MODEL #
WC1	WATER CLOSET: ADA COMPLIANT, 16-1/2" RIM HEIGHT, VITREOUS CHINA, ELONGATED BOWL, LOW-CONSUMPTION 1.6 GPF, FULLY-GLAZED 2-1/8" TRAPWAY, 9"x8" WATER SURFACE AREA, 3" FLUSH VALVE, FLOOR MOUNTED FLUSH TANK.	AMERICAN STANDARD	215AA.004
	SEAT: HEAVY WEIGHT AND INJECTION-MOLDED OF SOLID PLASTIC, CLOSED FRONT WITH COVER FOR ELONGATED BOWL AND FEATURE EXCLUSIVE, FOUR LARGE MOLDED-IN BUMPERS, STAINLESS STEEL SELF-SUSTAINING HINGES WITH STAINLESS STEEL POSTS.	BEMIS	1900SS
WC2	WATER CLOSET: ADA COMPLIANT, 16-1/2" RIM HEIGHT, VITREOUS CHINA, ELONGATED BOWL, LOW-CONSUMPTION 1.6 GPF, FULLY-GLAZED 2-1/8" TRAPWAY, 9"x8" WATER SURFACE AREA, 3" FLUSH VALVE, FLOOR MOUNTED FLUSH TANK.	AMERICAN STANDARD	215AA.004
	SEAT: HEAVY WEIGHT AND INJECTION-MOLDED OF SOLID PLASTIC, OPEN FRONT LESS COVER FOR ELONGATED BOWL AND FEATURE EXCLUSIVE, FOUR LARGE MOLDED-IN BUMPERS, CONCEALED CHECK HINGES WITH STAINLESS STEEL POSTS.	BEMIS	1900SS
L1	LAVATORY: 16" WIDE BY 10" FRONT TO BACK, VITREOUS CHINA, COUNTERTOP MOUNTED, FRONT OVERFLOW, FAUCET LEDGE, FAUCET HOLES ON 4" CENTERS.	AMERICAN STANDARD	0476.028
	FAUCET: DECK MOUNTED FAUCET, 4-1/2" SPOUT REACH, 2-5/16" SPOUT HEIGHT, POLISHED CHROME PLATED FINISH, SOLID BRASS BODY CONSTRUCTION, CERAMIC CARTRIDGE, 0.5 GPM PRESSURE COMPENSATING AERATOR OUTLET, LEVER HANDLE, 4" CENTERS.	PROFLO	PFWSC30065CP
	TRIM: SUPPLY PIPE WITH HANDLE WHEEL STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT. CHROME PLATED BRASS 17 GAUGE TAILPIECE AND 50/50 POP-UP DRAIN.	MCGUIRE	165LK, 8902
L2	LAVATORY: 20"x18", VITREOUS CHINA, WALL HUNG, REAR OVERFLOW, SELF-DRAINING DECK AREA, FAUCET LEDGE, CENTER HOLE ONLY.	AMERICAN STANDARD	9024.004
	FAUCET: DECK MOUNTED FAUCET, 4-1/2" SPOUT REACH, 2-5/16" SPOUT HEIGHT, POLISHED CHROME PLATED FINISH, SOLID BRASS BODY CONSTRUCTION, CERAMIC CARTRIDGE, 0.5 GPM PRESSURE COMPENSATING AERATOR OUTLET, LEVER HANDLE, 4" CENTERS.	PROFLO	PFWSC30065CP
	TRIM: SUPPLY PIPE WITH LOOSE KEY STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT. DRAIN WITH CHROME PLATED CAST BRASS SOLID TOP, OPEN GRID, P.O. PLUG. CHROME PLATED BRASS 17 GAUGE TAILPIECE.	MCGUIRE	165LK, 8902, 149
	CARRIER: LAVATORY SUPPORT WITH TOP AND BOTTOM PLATES, RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, ADJUSTABLE SUPPORT PLATES AND MOUNTING FASTENERS.	ZURN	SERIES Z1200
	THEMOSTATIC MIXING VALVE: LEAD-FREE DESIGN, WAX-FILLED THERMOSTAT, ADJUSTABLE SET POINT WITHIN TEMPERATURE RANGE, UNIVERSAL MOUNTING CAPABILITY, INTEGRAL CHECK VALVES AND STRAINER, ASSE 1070 COMPLIANT. SET TO 110°F.	BRADLEY	S59-4000
SH1	SHOWER: 60"x34" SHOWER AND SURROUND, 4 PIECE INSTALLATION, CENTER DRAIN. FURNISH WITH SHOWER DOORS MODEL NO. 5970-59. PROVIDE NO-CAULK SHOWER DRAIN WITH GRID STRAINER.	STERLING	72230106
	SHOWER VALVE: PRESSURE-BALANCING VALVE.	LEONARD	4500
	SHOWER HEAD: ADJUSTABLE SHOWERHEAD 1.5 GPM.	LEONARD	H14
SH2	SHOWER: ADA COMPLIANT ROLL-IN SHOWER BASE WITH WALLS, 60"x36" ID, LINEAR DRAIN, 1 PIECE, FURNISH WITH ALL ACCESSORIES REQUIRED FOR ADA COMPLIANCE. PROVIDE NO-CAULK SHOWER DRAIN WITH GRID STRAINER.	FREEDOM	APFXST6238LDCOLL APFXST6238LDCOLR
	SHOWER VALVE: PRESSURE-BALANCING VALVE.	LEONARD	4500
	SHOWER HEAD: ADA COMPLIANT, HAND HELD SHOWER SPRAY WITH 60" STAINLESS STEEL HOSE. PRESSURE-BALANCING VALVE. 1.5 GPM HAND HELD SHOWER HEAD.	LEONARD	515P
BT1	BATHTUB: 60"x36" ALCOVE BATHTUB, 16" APRON, FURNISH WITH WALL SET 71104100.	STERLING	71101110 (LH) 71101122 (RH)
	SHOWER VALVE: PRESSURE-BALANCING VALVE.	LEONARD	S-4503
	SHOWER HEAD: ADJUSTABLE SHOWERHEAD 1.5 GPM AND TUB SPOUT.	LEONARD	S-4503
MS1	MOP SINK: 24"x24". PRECAST TERRAZZO ONE PIECE PRODUCTS ARE MADE OF MARBLE CHIPS CAST IN GREY PORTLAND CEMENT. 12" HIGH. SHOULDERS SHALL NOT BE LESS THAN 2" WIDE WITH 1/2" PITCH TOWARD INSIDE. STAINLESS STEEL CAPS ON ALL CURBS. DRAIN BODY MADE OF STAINLESS STEEL CAST INTEGRALLY AND PROVIDE FOR A CAULKED LEAD CONNECTION NOT LESS THAN 1" DEEP TO A 3" PIPE.	FIAT	TSB100
	TRIM: WALL MOUNTED SERVICE SINK FAUCET, POLISHED CHROME PLATED FINISH, SOLID BRASS BODY CONSTRUCTION, ATMOSPHERIC VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, 3/4" MALE GARDEN HOSE THREAD OUTLET, LEVER HANDLES WITH SECURED COLOR CODED INDEX BUTTONS.	CHICAGO	897CP
EWC1	ELECTRIC WATER COOLER: ADA COMPLIANT, DUAL HEIGHT, WALL-MOUNTED FRONT PUSH BUTTON. GALVANIZED STEEL CHASSIS. ONE PIECE STAINLESS STEEL TOP. BASIN HAS EMBOSSED BUBBLER PAD. VANDAL-RESISTANT BUBBLER, HEAVY DUTY, ONE PIECE CONSTRUCTION. STAINLESS STEEL FURNISHED. HERMETICALLY SEALED COMPRESSOR, RECIPROCATING TYPE, 120V-1PH. SEALED-IN LIFETIME OIL SUPPLY. EQUIPPED WITH ELECTRIC CORD AND THREE PRONG MOLDED RUBBER PLUG. REFRIGERANT HFC-134A.	OASIS	P8ACSL
	TRIM: SUPPLY PIPE WITH LOOSE KEY STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT. DRAIN WITH CHROME PLATED CAST BRASS SOLID TOP,	MCGUIRE	165LK, 8902
	CARRIER: WATER COOLER SUPPORT WITH TOP AND BOTTOM PLATES, RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, ADJUSTABLE SUPPORT PLATES AND MOUNTING FASTENERS.	ZURN	SERIES Z1200
S1	SINK: 25"x22"x6" DEEP, SINGLE BOWL, #22 GAUGE, STAINLESS STEEL. TOP MOUNT. 1-1/2" VERTICAL AND HORIZONTAL RADIUS, 3-1/2" DRAIN OPENING, 4 HOLES, 8" CENTERS.	STREAM33	S33252264
	FAUCET: DECK MOUNTED 8" WIDESPREAD FAUCET, POLISHED CHROME PLATED FINISH, SOLID BRASS BODY CONSTRUCTION, 8" CENTERS, 8" SWING SPOUT, 1.5 GPM PRESSURE COMPENSATING AERATOR OUTLET, SINGLE AND COLOR CODED INDEX BUTTONS.	STREAM33	S331HKWS15-CH
	DRAIN: 4-1/2" DEEP LOCKING CUP STAINLESS STEEL STRAINER WITH BALL LOCKING STAINLESS STEEL BASKET	STREAM33	S331131-0044-SS
	GARBAGE GRINDER, 1/2 HP, 120V-1PH, CONTINUOUS FEED, GALVANIZED STEEL GRINDING ELEMENTS WITH TWO STAINLESS STEEL 360 DEGREE SWIVEL LUGS, DISHWASHER CONNECTION.	IN-SINK-ERATOR	BADGER 5XP
	TRIM: SUPPLY PIPE WITH LOOSE KEY STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT. P.O. PLUG. CHROME PLATED BRASS 17 GAUGE TAILPIECE.	MCGUIRE	165LK, 8912
S2	SINK: ADA COMPLIANT, 31"x22"x6-1/2" DEEP, SINGLE BOWL, #18 GAUGE, TYPE 304 NICKEL BEARING STAINLESS STEEL. TOP MOUNT. 1-3/4" VERTICAL AND HORIZONTAL RADIUS. BOWL AND FAUCET DECK RECESS 3/16" BELOW OUTSIDE EDGE OF SINK. FULLY UNDERCOATED TO DAMPEN SOUND AND PREVENT CONDENSATION. 3-1/2" DRAIN OPENING LOCATED OFF-CENTER REAR, 4 HOLES, 8" CENTERS.	ELKAY	LRAD3122654
	FAUCET: DECK MOUNTED 8" WIDESPREAD FAUCET, POLISHED CHROME PLATED FINISH, SOLID BRASS BODY CONSTRUCTION, 8" CENTERS, 8" SWING SPOUT, 1.5 GPM PRESSURE COMPENSATING AERATOR OUTLET, SINGLE AND COLOR CODED INDEX BUTTONS.	STREAM33	S331HKWS15-CH
	DRAIN WITH NICKEL PLATED BRASS BODY WITH GRID STRAINER, POLISHED FINISH.	ELKAY	LK35
	GARBAGE GRINDER, 1/2 HP, 120V-1PH, CONTINUOUS FEED, GALVANIZED STEEL GRINDING ELEMENTS WITH TWO STAINLESS STEEL 360 DEGREE SWIVEL LUGS, DISHWASHER CONNECTION.	IN-SINK-ERATOR	BADGER 5XP
	TRIM: SUPPLY PIPE WITH LOOSE KEY STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT. P.O. PLUG. CHROME PLATED BRASS 17 GAUGE TAILPIECE.	MCGUIRE	165LK, 8912
AAV1	OATEY SURE-VENT 1.5" – 2" 160 BRANCH, 24 STACK DFU AIR ADMITTANCE VALVE WITH PVC SCHEDULE 40 ADAPTER. COMPLIES WITH ASSE 1050 AND 1051.	OATEY	39016
FD1	ADJUSTABLE CAST IRON BODY, ROUND NICKEL BRONZE STRAINER. CAULK OUTLET. CONTRACTOR SHALL BUFF STRAINER TO BE SUITABLE FOR BAREFOOT TRAFFIC IN SHOWER AREAS. SURESEAL INLINE FLOOR DRAIN TRAP SEALER MODEL (3") SS3009V OR (4") SS4009V.	J.R. SMITH	2005-A
FD2	CAST IRON BODY, 12-INCH-DIAMETER CAST IRON TRACTOR GRATE, SOLID FREE-STANDING SEDIMENT BUCKET. SIZE AS INDICATED ON DRAWINGS. FLOOR DRAINS LOCATED IN MECHANICAL ROOMS TO HAVE CAST IRON FUNNELS. SURESEAL INLINE FLOOR DRAIN TRAP SEALER MODEL (3") SS3009V OR (4") SS4009V.	J.R. SMITH	2142
WH1	FREEZEPROOF FAUCET, BRONZE CASING, HINGED, LOCKING POLISHED BRONZE (NICKEL) BOX AND COVER, SELF-DRAINING VACUUM BREAKER, INTEGRAL BACKFLOW PREVENTER, 3/4" SIZE. LENGTH AS REQUIRED.	WOODFORD	67
RH1	FREEZELESS ROOF HYDRANT, 3/4" BRASS HOSE NOZZLE, 1" NPT FEMALE INLET CONNECTION, 1-1/4" GALAVANIZED PIPE CASING, CAST IRON HYDRANT SUPPORT, BACKFLOW PROTECTED AUTOMATIC DRAIN, DUAL CHECK VALVES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	WOODFORD	RHY2
WB1	WATER CONNECTION BOX: 1/2" COMBINATION MPT BRASS SWEAT CONNECTION, 1/2" HOSE END VALVES, 2" DRAIN PIPE AND OVERFLOW GUARD.	GUY GRAY	MWB3

PUMP SCHEDULE

TAG	LOCATION	ELECTRIC			GPM	FEET OF HEAD	MANUFACTURER	MODEL #	NOTES
		VOLT	PHASE	HP					
RCP1	AT EWH-3a/3b	120	1	1/12	10	10	GRUNDFOS	UP15-42FR	
SP1	ELEVATOR PIT	120	1	1/2	35	20	ZOELLER	M137	PROVIDE 24" DIAMETER x 36" DEEP BASIN

EXPANSION TANK SCHEDULE

TAG	LOCATION	TOTAL VOLUME (GALLONS)	INLET	MANUFACTURER	MODEL #	NOTES
ET1	EWH-1 & EWH-2	2	3/4"	AMTROL	ST-5C	CHARGE TO INCOMING WATER PRESSURE AFTER REDUCED PRESSURE BACKFLOW PREVENTER
ET2	EWH-3	6.4	3/4"	AMTROL	ST-12C	CHARGE TO INCOMING WATER PRESSURE AFTER REDUCED PRESSURE BACKFLOW PREVENTER

DOMESTIC WATER HEATER SCHEDULE

TAG	LOCATION	ELECTRIC			GALLONS OF STORAGE	RECOVERY AT 100°F	MANUFACTURER	MODEL #	NOTES
		VOLT	PHASE	KW					
EWH-1	1 BED UNITS	208	1	4.5	40	18.5 GPH	A.O. SMITH	DEN-40	SET TANK TEMPERATURE TO 140°F
EWH-2	2 BED UNITS	208	1	4.5	50	18.5 GPH	A.O.SMITH	DEN-50	SET TANK TEMPERATURE TO 140°F
EWH-3	MECH. 135	208	1	9	120	36	A.O. SMITH	DEN-120	SET TANK TEMPERATURE TO 140°F

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

SCHEDULES - PLUMBING

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

STATE OF OHIO — 3/29/22 — COLIN TOWNSEND 72081 — REGISTERED PROFESSIONAL ENGINEER

APRIL 4, 2022

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Proj. #20643

P601

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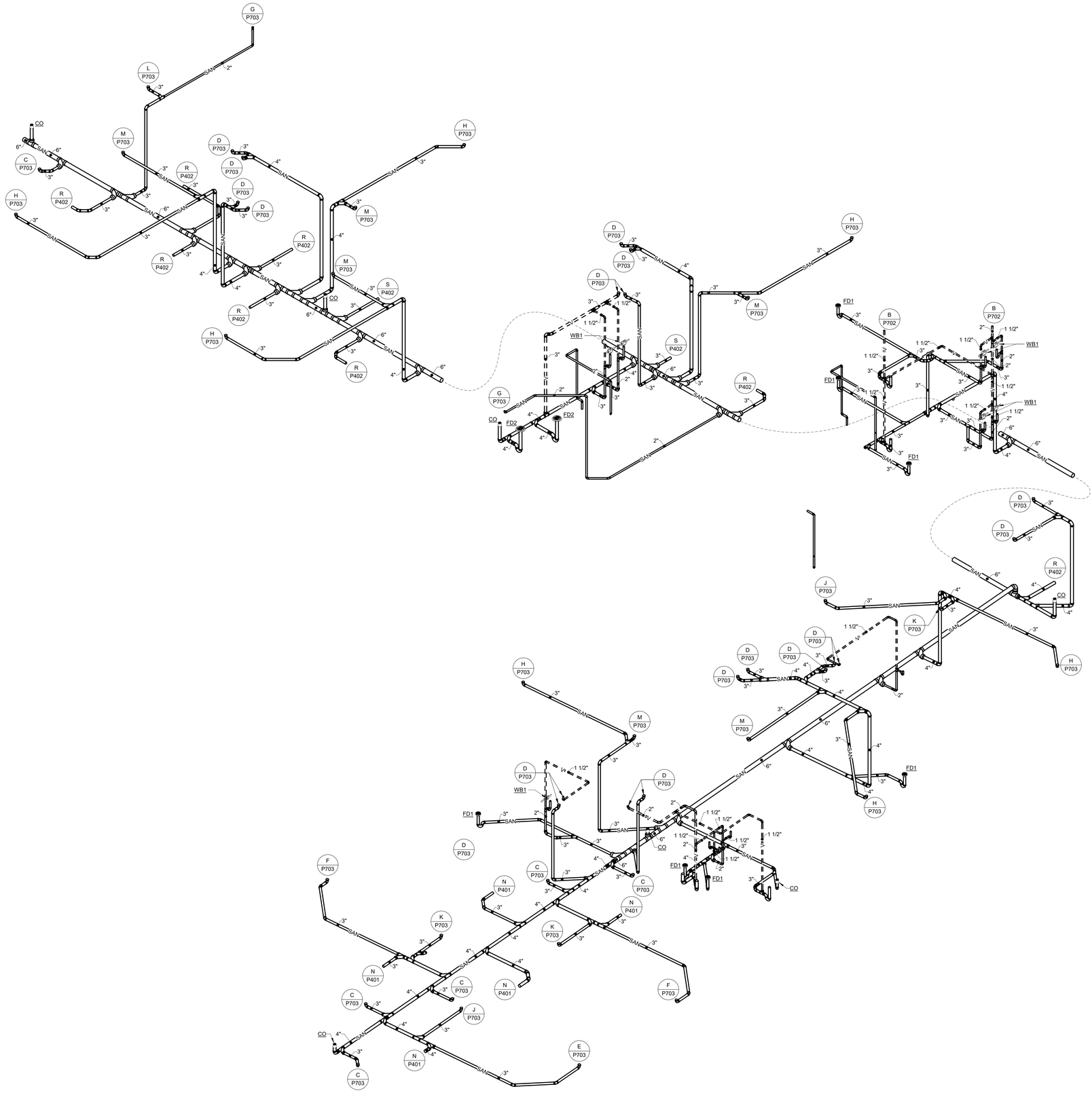

A **STACK A**

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1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
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FAX: (614) 280-8881

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APRIL 4, 2022

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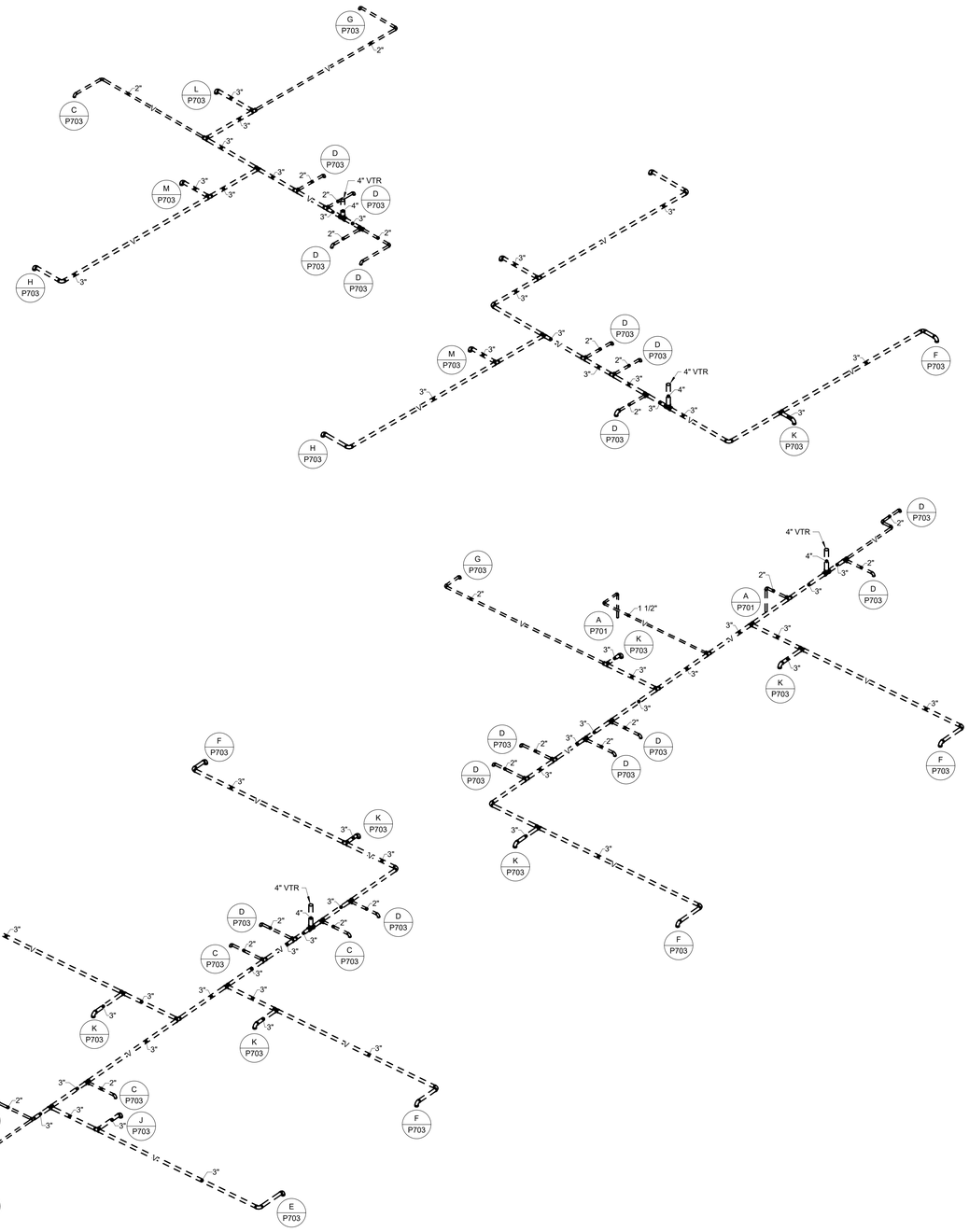

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ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
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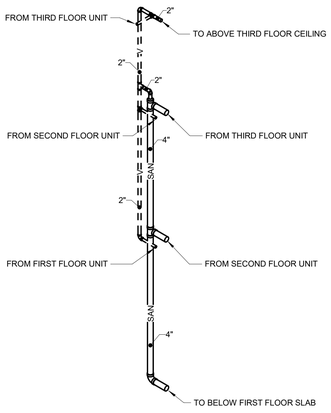

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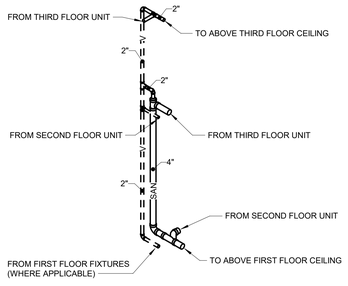

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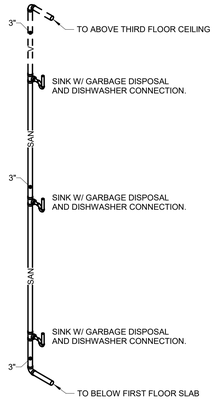

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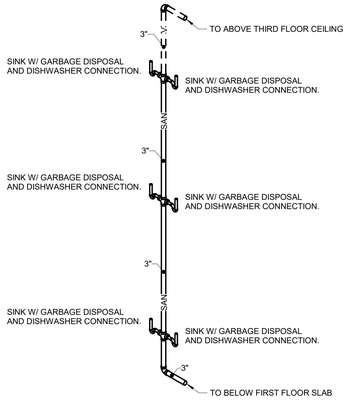

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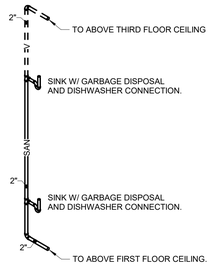

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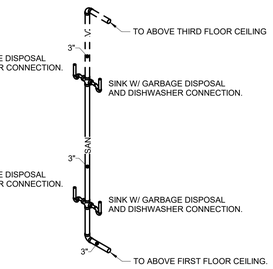

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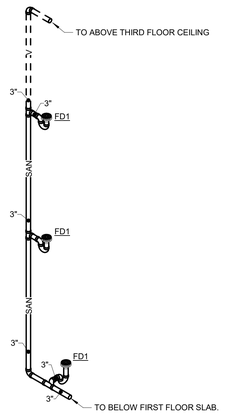

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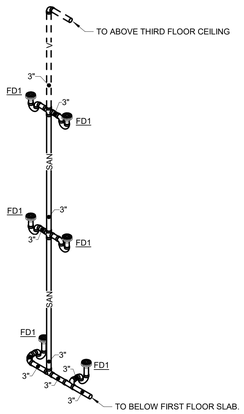

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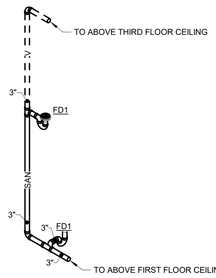

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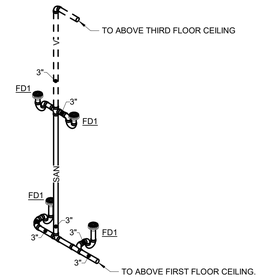

M STACK M

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

STACKS - PLUMBING

APRIL 4, 2022

DRAWN BY: **PM** | CHECKED BY: **BJ**

Proj. #20643

P703

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Columbus, Ohio 43215
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Fax: (614) 486-4082

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ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.

(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
AAV	AUTOMATIC AIR VENT
AFF	ABOVE FINISHED FLOOR
AMB	AMBIENT
APD	AIR PRESSURE DROP
A/E	ARCHITECT/ENGINEER
BAS	BUILDING AUTOMATION SYSTEM
BFP	BACKFLOW PREVENTOR
BLDG	BUILDING
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
CL	CENTER LINE
CO	CLEAN OUT
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EFF	EFFICIENCY
EG	ETHYLENE GLYCOL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
FPI	FINS PER INCH
GTC	GENERAL TRADES CONTRACTOR
ID	INNER DIAMETER
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MFR	MANUFACTURER
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR
REL	RELIEF AIR
SA	SUPPLY AIR
SCC	SENSIBLE COOLING CAPACITY
SP	STATIC PRESSURE
TCC	TOTAL COOLING CAPACITY
TCP	TEMPERATURE CONTROL PANEL
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB
WG	WATER GAUGE
WPD	WATER PRESSURE DROP

SYMBOLS LIST

NOTE: NOT ALL SYMBOLS MAY BE USED.

LINE STYLES

- NEW WORK (VISIBLE)
- NEW WORK (HIDDEN)
- EXISTING WORK (VISIBLE)
- EXISTING WORK (HIDDEN)
- EXISTING TO BE DEMOLISHED
- FUTURE

PIPING

- HEATING WATER SUPPLY — HWS
- HEATING WATER RETURN — HWR
- CHILLED WATER SUPPLY — CWS
- CHILLED WATER RETURN — CWR
- CONDENSER WATER SUPPLY — CS
- CONDENSER WATER RETURN — CR
- COOLING COIL CONDENSATE — C
- REFRIGERANT SUCTION — RS
- REFRIGERANT LIQUID — RL
- HIGH PRESSURE STEAM — HPS(#)
- HIGH PRESSURE STEAM CONDENSATE — HPC
- LOW PRESSURE STEAM — LPS(#)
- LOW PRESSURE STEAM CONDENSATE — LPC
- PUMPED STEAM CONDENSATE — PSC

PIPING (FITTINGS, VALVES, AND MISCELLANEOUS)

- DROP
- RISE
- TEE
- CAP
- REDUCER
- FLOW ARROW
- PUMP — OR
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- BUTTERFLY VALVE
- BALL VALVE
- CHECK VALVE
- COMBINATION BALANCE/SHUT-OFF VALVE
- TRIPLE DUTY VALVE
- GATE VALVE
- PLUG VALVE
- GLOBE VALVE
- PRESSURE RELIEF VALVE
- PRESSURE REDUCING VALVE
- STRAINER
- DRAIN VALVE WITH HOSE END ADAPTER
- UNION
- AUTOMATIC AIR VENT
- MANUAL AIR VENT
- THERMOMETER
- PRESSURE GAUGE (WITH STOPCOCK)
- PRESSURE/TEMPERATURE TEST PLUG
- FLOW SENSOR
- PRESSURE SENSOR
- TEMPERATURE SENSOR
- STEAM TRAP
- METER
- FLEXIBLE CONNECTION
- HEAT TRACED PIPE — ##
- PIPE ANCHOR
- PIPE GUIDE
- EXPANSION JOINT

DUCTWORK

- SUPPLY/O.A. DUCT RISE (SINGLE LINE) — OR
- SUPPLY/O.A. DUCT RISE (DOUBLE LINE) — OR
- SUPPLY/O.A. DUCT DROP (SINGLE LINE) — OR
- SUPPLY/O.A. DUCT DROP (DOUBLE LINE) — OR
- RETURN/EXHAUST/RELIEF DUCT RISE (SINGLE LINE) — OR
- RETURN/EXHAUST/RELIEF DUCT RISE (DOUBLE LINE) — OR
- RETURN/EXHAUST/RELIEF DUCT DROP (SINGLE LINE) — OR
- RETURN/EXHAUST/RELIEF DUCT DROP (DOUBLE LINE) — OR
- FLAT OVAL (DROP OR RISE) — OR
- DOUBLE LINE FLEX DUCT
- SINGLE LINE FLEX DUCT
- ACCESS DOOR — OR
- 90 DEGREE FITTING (WITH TURNING VANES)
- DIFFUSER — OR — WITHOUT FLEX / WITH FLEX
- SIDEWALL GRILLE/REGISTER/DIFFUSER — OR — WITHOUT FLEX / WITH FLEX
- GRILLE/REGISTER
- VOLUME DAMPER
- FIRE DAMPER WITH ACCESS DOOR (FD)
- SMOKE DAMPER WITH ACCESS DOOR (SD)
- COMB. FIRE/SMOKE DAMPER WITH ACCESS DOOR (CD)
- BACKDRAFT DAMPER (BD)
- MOTORIZED DAMPER WITH ACCESS DOOR (M)
- AIR FLOW ARROW
- THERMOSTAT (MOUNT 48" AFF TO CENTER UNO) (T)
- HUMIDISTAT (MOUNT 48" AFF TO CENTER UNO) (H)
- MISCELLANEOUS SENSOR (S)
- CO SENSOR (CO)
- CO_2 SENSOR (CO_2)
- CONNECT TO EXISTING
- TERMINAL BOX — OR — WITHOUT REHEAT / WITH REHEAT

GENERAL NOTES:

A. THESE NOTES APPLY TO ALL DIVISION 23 DRAWINGS.

B. ALL HVAC WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND NATIONAL CODES.

C. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, FEES, AND PERMITS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL COMPLY WITH ALL GENERAL CONDITIONS LISTED ON THE ARCHITECTURAL DRAWINGS.

D. IN CASE OF DIFFERENCE BETWEEN BUILDING CODES, SPECIFICATIONS, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS, FIRE INSURANCE CARRIER'S REQUIREMENTS, AND CONTRACT DOCUMENTS, THE MOST STRINGENT SHALL GOVERN. PROMPTLY NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DIFFERENCE.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE FUNCTIONALITY OF THE HVAC SYSTEM INCLUDING ELECTRICAL AND CONTROL ITEMS ASSOCIATED WITH THE MECHANICAL EQUIPMENT.

F. THE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION OF MECHANICAL, PLUMBING, AND EQUIPMENT. DRAWINGS ARE BASED ON "AS-BUILT" DRAWINGS AND LIMITED FIELD OBSERVATIONS. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, SIZE AND LOCATION OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE.

G. IN THE EVENT OF A CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS THE CONTRACTOR SHALL ADVISE ENGINEER IN WRITING PRIOR TO PROCEEDING WITH WORK. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH RESTOCKING, RELOCATING OF EQUIPMENT, SYSTEMS, PIPING, ETC. FROM FAILURE TO PROPERLY COORDINATE INSTALLATION AND NOT ADVISING IN WRITING OF CONFLICT PRIOR TO PURCHASE AND/OR INSTALLATION.

H. CONTRACTOR IS TO MAINTAIN RECORDED "AS-BUILT" INFORMATION ON ALL EXISTING SERVICES UNCOVERED DURING CONSTRUCTION AND ALL NEW SERVICES BEING INSTALLED. "AS-BUILT" DRAWINGS SHALL BE MAINTAINED IN THE FIELD. THE "AS-BUILTS" SHALL CAPTURE INFORMATION ON A CLEARLY MARKED IN COLOR PRINTED COPY OF CONTRACT DRAWING. RECORDED INFORMATION SHALL INCLUDE ROUTING AND INVERT ELEVATIONS. AT THE COMPLETION OF THE CONTRACT, THE CONTRACTOR SHALL PROVIDE ELECTRONIC (PDF FORMAT) OF RECORDED "AS-BUILT" INFORMATION TO THE ENGINEER.

I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR START-UP OF ALL EQUIPMENT AND SYSTEMS INSTALLED, MODIFIED, OR REVISED BY THIS WORK PER MANUFACTURER'S REQUIREMENTS AND/OR CONTRACT DOCUMENTS.

J. AT THE END OF CONSTRUCTION, CONTRACTOR SHALL PERFORM A COMPLETE AIR SYSTEM FLOW BALANCE FOR ALL EQUIPMENT AND SYSTEMS SHOWN, SCHEDULED OR OTHERWISE IDENTIFIED. CONTRACTOR SHALL INCLUDE TIME IN CONSTRUCTION SCHEDULE TO FULLY TEST AND BALANCE SYSTEMS PRIOR TO OWNER OCCUPANCY TO ASSURE ADJUSTMENTS CAN BE MADE TO MITIGATE COMFORT ISSUES FOR OCCUPANTS POST CONSTRUCTION.

K. UPON COMPLETION OF HVAC SYSTEMS, THE MECHANICAL CONTRACTOR SHALL INSTRUCT THE OWNER IN THE COMPLETE OPERATION OF THE SYSTEMS.

L. PRIOR TO AND DURING CONSTRUCTION, CONTRACTOR SHALL FULLY PROTECT THE AIR HANDLING AND DUCTWORK SYSTEMS. CONTRACTOR SHALL PROTECT EACH RETURN AIR GRILLE OPENING AND RETURN AIR DUCT WITH MINIMUM MERV 8 FILTER MEDIA. AIR HANDLING EQUIPMENT AND DUCTS COVERED WITH DRYWALL/CONSTRUCTION DUST SHALL BE CLEANED AT CONTRACTOR EXPENSE.

M. THE CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL EQUIPMENT, DUCTWORK, PIPING, VALVES, AND ACCESS LOCATIONS HAVE CLEARANCES IN ACCORDANCE TO THE DRAWINGS AND THE MANUFACTURER'S REQUIREMENTS FOR FULL ACCESSIBILITY AND OPERATION OF MECHANICAL SYSTEMS.

N. THE CONTRACTOR SHALL PROVIDE ACCESS PANELS, IN WALLS OR CEILING, OR ACCESS DOORS, IN DUCTWORK, AS INDICATED OR REQUIRED FOR ACCESS TO CONCEALED MECHANICAL EQUIPMENT OR DEVICES.

O. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND SHALL REPAIR ADJACENT EXISTING AND/OR NEW SURFACES, AREAS, AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF DEMOLITION AND/OR NEW WORK.

P. COORDINATE THE LOCATION OF ALL UTILITY CONNECTION POINTS FOR EQUIPMENT WITH OTHER TRADES. COORDINATION INCLUDES ALLOWING PROPER CLEARANCE FOR ELECTRICAL DEVICES FURNISHED WITH EQUIPMENT INCLUDING CONTROLS, DISCONNECTS, VAV POWER/CONTROL PANELS, VFD, ETC.

Q. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING DEVICES, INCLUDING CEILING MOUNTED FANS.

R. COORDINATE CLOSELY WITH OTHER TRADES IN LOCATING AND INSTALLING ALL SYSTEMS ABOVE SUSPENDED CEILINGS. SPECIFICALLY, COORDINATE LAYOUT WITH ELECTRICAL AND PLUMBING CONTRACTORS TO ALLOW SUFFICIENT ROOM FOR RECESSED LIGHT FIXTURES, FIRE SPRINKLER, AND PLUMBING VENTS WHERE APPLICABLE.

S. ANNULAR SPACE OF PIPE, CONDUIT, DUCT, AND OTHER SIMILAR PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. IN ADDITION, PENETRATIONS THRU 0-HOUR RATED FLOORS SHALL ALSO BE FIRESTOPPED TO RETARD PASSAGE OF FIRE AND SMOKE. REFER TO FIRESTOPPING SPECIFICATION. REFER TO ARCHITECTURAL DRAWINGS FOR CONSTRUCTION, LAYOUT, AND FIRE RATINGS OF FLOORS, WALLS, PARTITIONS, AND OTHER BUILDING ELEMENTS.

T. ALL EXPOSED WIRING SHALL BE RUN IN CONDUIT, EXCEPT WHEN RUNNING THOUGH FINISHED SPACES THAT HAVE CEILING "CLOUDS".

U. THE CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, FINISHING, AND PENETRATIONS REQUIRED BY THE INSTALLATIONS. ALL FLOOR PENETRATIONS SHALL BE PATCHED AND SEALED TO BE WATERTIGHT. PROVIDE CHROME ESCUTCHEON FOR EXPOSED PIPING PENETRATIONS. CUTTING OF BUILDING CONSTRUCTION MATERIALS SHALL CONFORM TO THE CHARACTERISTICS OF THE PARTICULAR MATERIAL INVOLVED AND SHALL NOT CREATE ANY STRUCTURAL WEAKNESS OR UNSIGHTLY APPEARANCE. REFINISH ANY SURFACE DISTURBED UNDER THIS WORK TO MATCH EXISTING, EXCEPT WHERE REFINISHING OF THAT SURFACE IS INCLUDED UNDER THE GENERAL TRADES CONTRACT.

V. PROVIDE ROOM TEMPERATURE THERMOSTATS FOR ALL UNITS. PREFERRED LOCATIONS ARE SHOWN ON THE PLANS. COORDINATE LOCATION OF THERMOSTATS AND OTHER WALL MOUNTED DEVICES WITH FURNITURE, WALL FRAMING, ELECTRICAL OUTLETS AND DEVICES, AND TECHNOLOGY OUTLETS AND DEVICES PRIOR TO ROUGH-IN. PROVIDE THERMOSTATS WITH ROOM TEMPERATURE INDICATOR AND WITH SET POINT ADJUSTMENT.

W. ALL ROOF AND DECK PENETRATIONS SHALL BE COMPLETED BY THE GENERAL TRADES CONTRACTOR. COORDINATE EXACT SIZE AND LOCATION WITH ARCHITECT AND STRUCTURAL ENGINEER. COORDINATE SCOPE OF WORK WITH GENERAL CONTRACTOR PRIOR TO BIDDING.

X. COORDINATE EXACT LOCATION OF DIFFUSERS, GRILLES AND REGISTERS WITH AREA SMOKE DETECTORS, LIGHTS, AND ELECTRICAL DEVICES. AIR DEVICES SHALL NOT BE CLOSER THAN 3 FEET FROM AN AREA SMOKE DETECTOR.

Y. BRANCH DUCT TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE. FLEXIBLE DUCT CONNECTION TO THE DIFFUSER SHALL BE NO MORE THAN 5 FEET IN LENGTH FLEXIBLE DUCT SHALL NOT BE USED FOR ELBOW TO DIFFUSER WITH A FLEXFLOW SUPPORT ELBOW.

Z. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR MAKING ALL EXPOSED DUCTWORK PAINT READY.

AA. PROVIDE VOLUME DAMPERS AS SHOWN ON THE DRAWINGS, AS REQUIRED BY THE SPECIFICATIONS, AND SHOWN IN TYPICAL DETAILS. LOCATE VOLUME DAMPERS IN ACCESSIBLE LOCATIONS. A VOLUME DAMPER SHALL BE PROVIDED FOR EACH DIFFUSER AND GRILLE IN ORDER TO BALANCE EACH AIR DEVICE INDEPENDENTLY PER SPECIFIED CFM STATED ON DRAWINGS.

AB. DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR, UNLESS NOTED OTHERWISE.

AC. PROVIDE STRAIGHT INLET AND OUTLET DUCTS PER THE LENGTH THE EQUIPMENT MANUFACTURER RECOMMENDS. FAN INLETS SHALL BE MINIMUM 3 DUCT DIAMETERS OF STRAIGHT DUCT. INSTALL AND SUPPORT MECHANICAL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE FLEXIBLE CONNECTIONS AND VIBRATION ISOLATION FOR VIBRATING EQUIPMENT UNLESS NOTED OTHERWISE.

AD. INSTALL AIRFOIL TURNING VANES IN ALL 90 DEGREE ELBOWS EXCEPT TRANSFER DUCTS AND OPEN RETURN AIR BOOTS.

AE. CONTRACTOR SHALL COMPLY WITH SMACNA "HVAC DUCT CONSTRUCTION AND STANDARDS" AND OTHER APPLICABLE STANDARDS INCLUDED IN THE SPECIFICATIONS FOR THE CONSTRUCTION AND SUPPORT OF DUCTWORK, UNLESS OTHERWISE NOTED

AF. ALL DUCTS AND PIPES SHALL BE RUN ABOVE CEILING. WHERE NO CEILINGS ARE INSTALLED, INSTALL AS HIGH AS POSSIBLE TO STRUCTURE UNLESS NOTED OTHERWISE. IN GENERAL, KEEP DUCT AND PIPING MAINS NEXT TO UNDERSIDE OF STRUCTURE.

AG. CHANGES IN HVAC DUCT AND PIPE ELEVATIONS SHALL BE PROVIDED AND BE COORDINATED WITH OTHER SYSTEMS INCLUDING, BUT NOT LIMITED, TO PLUMBING, FIRE PROTECTION, ELECTRICAL, AND BUILDING ELEMENTS SYSTEMS. OFFSET DUCTS INTO JOIST SPACE FOR WHERE SPACE ABOVE CEILING IS NOT SUFFICIENT FOR DUCTS TO CROSS OTHER DUCTS OR WORK OF OTHER CONTRACTORS.

AH. DUCTWORK AND PIPING ON DRAWINGS DOES NOT INDICATE ALL REQUIRED OFFSETS AND FITTINGS. INCLUDE THESE OFFSETS AND FITTINGS TO COORDINATE WITH OTHER CONTRACTORS.

AI. SECURELY FASTEN ALL PIPING AND DUCTWORK WITHIN STRUCTURES TO THE BUILDING CONSTRUCTION BY MEANS OF HANGERS, SUPPORTS, GUIDES, ANCHORS, AND SWAY BRACES TO MAINTAIN PIPE AND DUCTWORK ALIGNMENT, TO PREVENT SAGGING, AND TO PREVENT NOISE AND EXCESSIVE STRAIN ON PIPING AND DUCTWORK DUE TO MOVEMENT UNDER OPERATING CONDITIONS. SUPPORTS FOR ALL PIPING AND DUCTWORK SHALL BE IN ACCORDANCE WITH LATEST ANSI AND SMACNA STANDARDS.

AJ. CONTRACTOR SHALL PROTECT THE PIPING AND DUCTWORK TO PREVENT ENTRY OF DIRT AND ANY OTHER FOREIGN MATERIAL DURING THE INSTALLATION.

AK. PROVIDE FLEXIBLE CONNECTIONS FOR ALL VIBRATING EQUIPMENT.

AL. INSTALL ALL PIPING IN LOCATIONS AND ELEVATIONS SUCH THAT COILS, TUBES, AND FILTERS CAN BE REMOVED AND REPLACED WITHOUT MAJOR PIPING REMOVAL. LOCATE VALVES IN APPROPRIATE PLACES TO ACCOMMODATE MAINTENANCE. MAINTAIN REQUIRED SERVICE ACCESS SPACE AT EQUIPMENT.

AM. PIPE SLEEVES THRU FLOORS SHALL BE SEPARATED BY A MINIMUM OF 3" UNLESS APPROVED BY THE PROJECT STRUCTURAL ENGINEER. SUBMIT SLEEVE COORDINATION DRAWINGS FOR REVIEW AND APPROVAL. EXTEND SLEEVES A MINIMUM OF 2" AFF AND CAULK PERIMETER.

AN. ARRANGE ALL PIPING WITHIN STRUCTURES NEATLY ALONG WALLS AND/OR IN NEAT, HORIZONTAL GROUPS AND MAINTAIN REQUIRED SLOPES.

AO. PROVIDE A HANGER NOT MORE THAN 12 INCHES FROM THE POINT OF CHANGE OF DIRECTION OF A PIPE RUN IN BOTH HORIZONTAL AND VERTICAL PLANE.

AP. CONNECTION BETWEEN DISSIMILAR MATERIAL PIPES SHALL BE CONNECTED VIA DIELECTRIC NIPPLES OR FLANGES WITH DIELECTRIC GASKETS TO COUNTERACT ELECTROLYSIS.

AQ. ALL WORK, EQUIPMENT AND MATERIALS SHALL BE PROTECTED AT ALL TIMES. ALL DUCT AND PIPE OPENING SHALL BE PROPERLY CAPPED OR PLUGGED DURING INSTALLATION.

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
GENERAL INFORMATION - MECHANICAL

STATE OF OHIO — CHRISTOPHER A. TOMLIN — 72961 — REGISTERED PROFESSIONAL ENGINEER — 3/29/22

APRIL 4, 2022

DRAWN BY: **MDH** | CHECKED BY: **CAT**

Proj. #20643

M001

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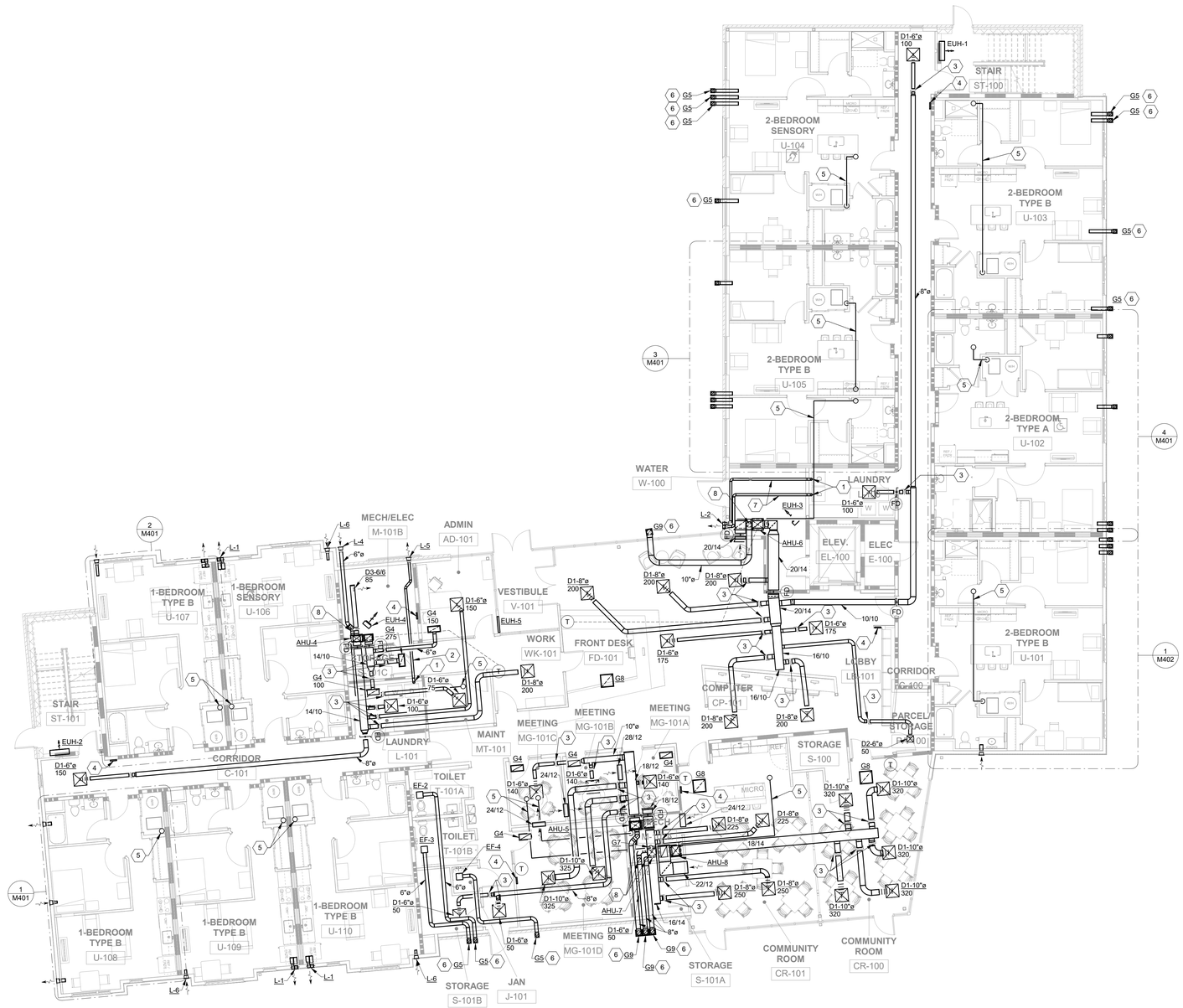

1 PLAN LEVEL 01 - FLOOR PLAN - MECHANICAL
1/8" = 1'-0"

GENERAL NOTES:

1. PER THE OHIO MECHANICAL CODE, OUTSIDE AIR INTAKES MUST BE AT LEAST 10'-0" FROM CONTAMINATED EXHAUST SOURCES SUCH AS BATHROOM EXHAUST OR DRYER EXHAUST.
2. PER THE OHIO MECHANICAL CODE, CONTAMINATED EXHAUST SOURCES SUCH AS BATHROOM EXHAUST OR DRYER EXHAUST OPENINGS MUST BE AT LEAST 3'-0" FROM ANY OPERABLE WINDOW OR DOOR OPENING.
3. ALL EXHAUST DUCTWORK WITH CONNECTIONS TO THE OUTSIDE SHALL BE INSULATED A MINIMUM OF 10'-0" LINEAR FEET FROM THE EXTERIOR WALL CONNECTION.
4. ALL OUTSIDE AIR INTAKE DUCTWORK SHALLL BE INSULATED FROM AIR HANDLING UNIT TO THE EXTERIOR.
5. ALL SUPPLY AIR DUCTWORK, INCLUDING FLEX DUCT, SHALL BE INSULATED FROM AIR HANDLING UNIT TO AIR DEVICE.
6. PROVIDE CEILING RADIATION DAMPERS FOR ALL AIR DEVICES.
7. INSTALL ALL AIR HANDLING UNITS DIRECTLY BETWEEN STRUCTURAL TRUSSES OVERHEAD WHERE POSSIBLE.
8. GENERAL TRADES CONTRACTOR SHALL PROVIDE A CEILING ACCESS PANEL WHERE DUCT ACCESS DOORS ARE ABOVE DRYWALL CEILINGS. COORDINATE LOCATION OF THESE ACCESS POINTS.
9. COVER ALL TRANSFER AIR DUCT OPENINGS ABOVE CEILING WITH BIRD SCREEN.
10. ALL DUCTWORK TO BE INSTALLED ABOVE CEILINGS UNLESS NOTE OTHERWISE.

CODED NOTES:

1. 4"Ø DRYER EXHAUST TO BE CONSTRUCTED WITH A SMOOTH INTERIOR FINISH, VOID OF SCREWS AND SIMILAR FASTENERS THAT PROTRUDE MORE THAN 1/8 INCH INTO THE INSIDE OF THE DUCT. THE OVERALL RUN OF DUCT SHALL NOT EXCEED 35' EQUIVALENT FEET IN LENGTH, PER SECTION 504.8.4.1 OF THE OHIO MECHANICAL CODE. DUCT FITTINGS SHALL BE CONSTRUCTED WITH 10" SMOOTH RADIUS ELBOW FITTING EQUAL TO DRYER-ELL MODEL LT-90.
2. RUN DRYER EXHAUST DUCT IN SOFFIT BELOW THE FIRE RATED CEILING IN THIS AREA.
3. PROVIDE YOUNG'S REGULATOR ELECTRONIC BALANCE DAMPER WITH POSITION INDICATOR, 12V. PROVIDE PLENUM RATED 5 CONDUCTER WIRE. EXTEND TO MODEL EBD WALL UNIT.
4. PROVIDE MULTI PORT EBD-WALL PLATE TO ACCOMMODATE ASSOCIATED DAMPERS FOR SETTING DAMPER POSITION. EXTEND EBDC PLENUM RATED CABLE TO ALL DAMPERS IN AREA TO ALLOW FOR COMPLETE AIR BALANCE OF SYSTEM. PROVIDE ONE EBD-P DAMPER POSITIONER WITH DISPLAY METER.
5. REFRIGERANT PIPING. ROUTE AND SIZE PER MANUFACTURER'S RECOMMENDATIONS.
6. AIR DEVICE LOCATED IN SOFFIT.
7. RUN DRYER EXHAUST DUCT BELOW THE FIRE RATED CEILING IN THIS AREA.
8. PROVIDE HONEYWELL EARD MOTORIZED DAMPER 24V IN OUTSIDE AIR DUCT. DAMPER TO BE INTERLOCKED WITH AIR HANDLING UNIT. DAMPER TO OPEN ONLY WHEN AHU IS IN HEATING OR COOLING MODE.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
LEVEL 01 - FLOOR PLAN - MECHANICAL

APRIL 4, 2022

DRAWN BY: **MDH** | CHECKED BY: **CAT**

Proj. #20643

M101

PERMIT & BID SET

STATE OF OHIO 3/29/22 COLIN T. ALLEN 72481 REGISTERED PROFESSIONAL ENGINEER

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
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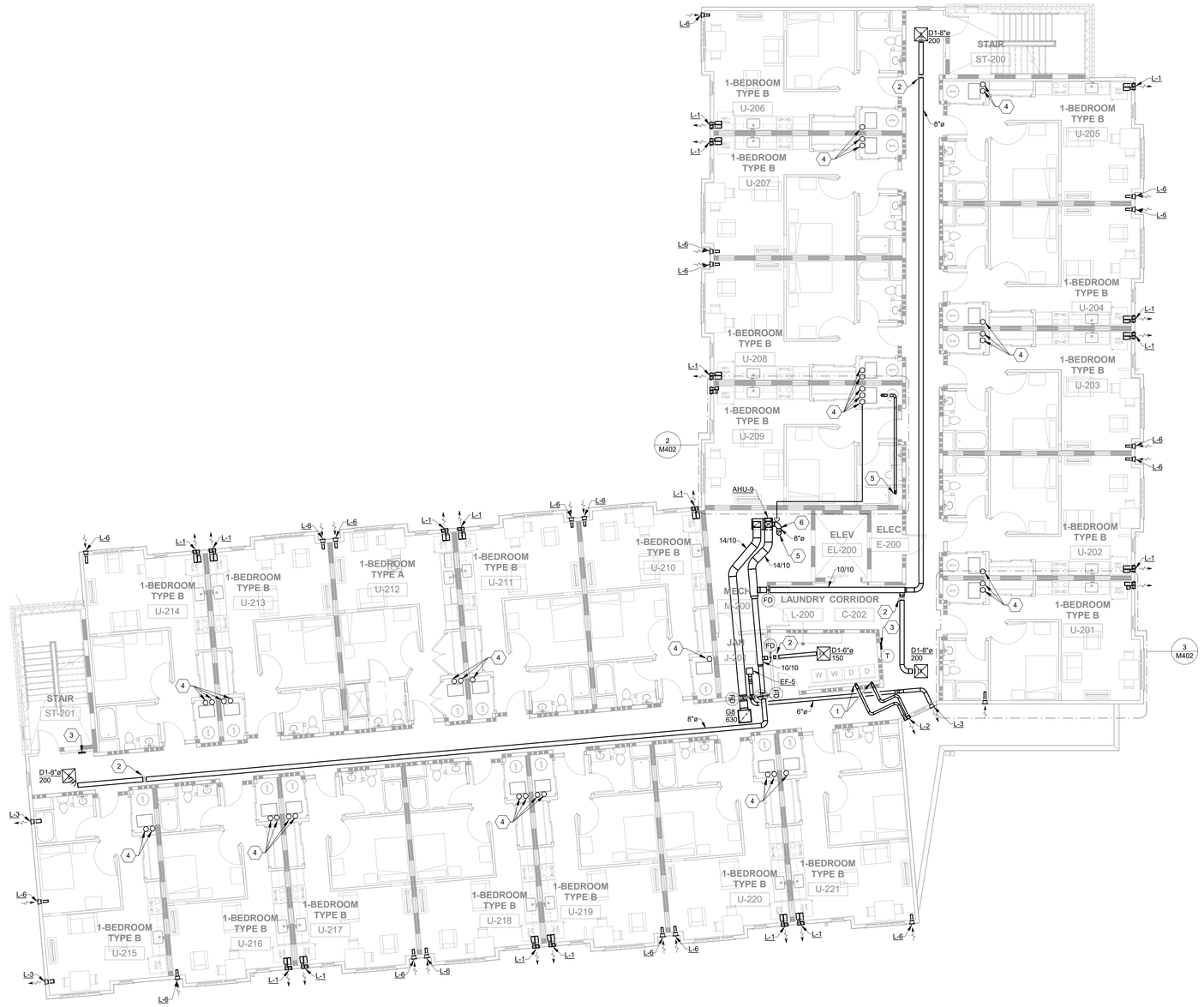

1 PLAN LEVEL 02 - FLOOR PLAN - MECHANICAL
1/8" = 1'-0"

GENERAL NOTES:

1. PER THE OHIO MECHANICAL CODE, OUTSIDE AIR INTAKES MUST BE AT LEAST 10'-0" FROM CONTAMINATED EXHAUST SOURCES SUCH AS BATHROOM EXHAUST OR DRYER EXHAUST.
2. PER THE OHIO MECHANICAL CODE, CONTAMINATED EXHAUST SOURCES SUCH AS BATHROOM EXHAUST OR DRYER EXHAUST OPENINGS MUST BE AT LEAST 3'-0" FROM ANY OPERABLE WINDOW OR DOOR OPENING.
3. ALL EXHAUST DUCTWORK WITH CONNECTIONS TO THE OUTSIDE SHALL BE INSULATED A MINIMUM OF 10'-0" LINEAR FEET FROM THE EXTERIOR WALL CONNECTION.
4. ALL OUTSIDE AIR INTAKE DUCTWORK SHALLL BE INSULATED FROM AIR HANDLING UNIT TO THE EXTERIOR.
5. ALL SUPPLY AIR DUCTWORK, INCLUDING FLEX DUCT, SHALL BE INSULATED FROM AIR HANDLING UNIT TO AIR DEVICE.
6. PROVIDE CEILING RADIATION DAMPERS FOR ALL AIR DEVICES.
7. INSTALL ALL AIR HANDLING UNITS DIRECTLY BETWEEN STRUCTURAL TRUSSES OVERHEAD WHERE POSSIBLE.
8. GENERAL TRADES CONTRACTOR SHALL PROVIDE A CEILING ACCESS PANEL WHERE DUCT ACCESS DOORS ARE ABOVE DRYWALL CEILINGS. COORDINATE LOCATION OF THESE ACCESS POINTS.
9. COVER ALL TRANSFER AIR DUCT OPENINGS ABOVE CEILING WITH BIRD SCREEN.
10. ALL DUCTWORK TO BE INSTALLED ABOVE CEILINGS UNLESS NOTE OTHERWISE.

CODED NOTES:

1. 4"Ø DRYER EXHAUST TO BE CONSTRUCTED WITH A SMOOTH INTERIOR FINISH, VOID OF SCREWS AND SIMILAR FASTENERS THAT PROTRUDE MORE THAN 1/8" INCH INTO THE INSIDE OF THE DUCT. THE OVERALL RUN OF DUCT SHALL NOT EXCEED 35' EQUIVALENT FEET IN LENGTH, PER SECTION 504.8.4.1 OF THE OHIO MECHANICAL CODE. DUCT FITTINGS SHALL BE CONSTRUCTED WITH 10" RADIUS SMOOTH ELBOWS.
2. PROVIDE YOUNG'S REGULATOR ELECTRONIC BALANCE DAMPER WITH POSITION INDICATOR, 12V. PROVIDE PLENUM RATED 5 CONDUCTER WIRE. EXTEND TO MODEL EBD WALL UNIT.
3. PROVIDE MULTI PORT EBD-WALL PLATE TO ACCOMMODATE ASSOCIATED DAMPERS FOR SETTING DAMPER POSITION. EXTEND EBDC PLENUM RATED CABLE TO ALL DAMPERS IN AREA TO ALLOW FOR COMPLETE AIR BALANCE OF SYSTEM. PROVIDE ONE EBD-P DAMPER POSITIONER WITH DISPLAY METER.
4. REFRIGERANT PIPING. ROUTE AND SIZE PER MANUFACTURER'S RECOMMENDATIONS.
5. OUTSIDE AIR DUCT UP TO ROOF.
6. PROVIDE HONEYWELL EARD MOTORIZED DAMPER 24V IN OUTSIDE AIR DUCT. DAMPER TO BE INTERLOCKED WITH AIR HANDLING UNIT. DAMPER TO OPEN ONLY WHEN AHU IS IN HEATING OR COOLING MODE.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
LEVEL 02 - FLOOR PLAN - MECHANICAL

APRIL 4, 2022

DRAWN BY: **MDH** | CHECKED BY: **CAT**

Proj. #20643

M102

PERMIT & BID SET

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

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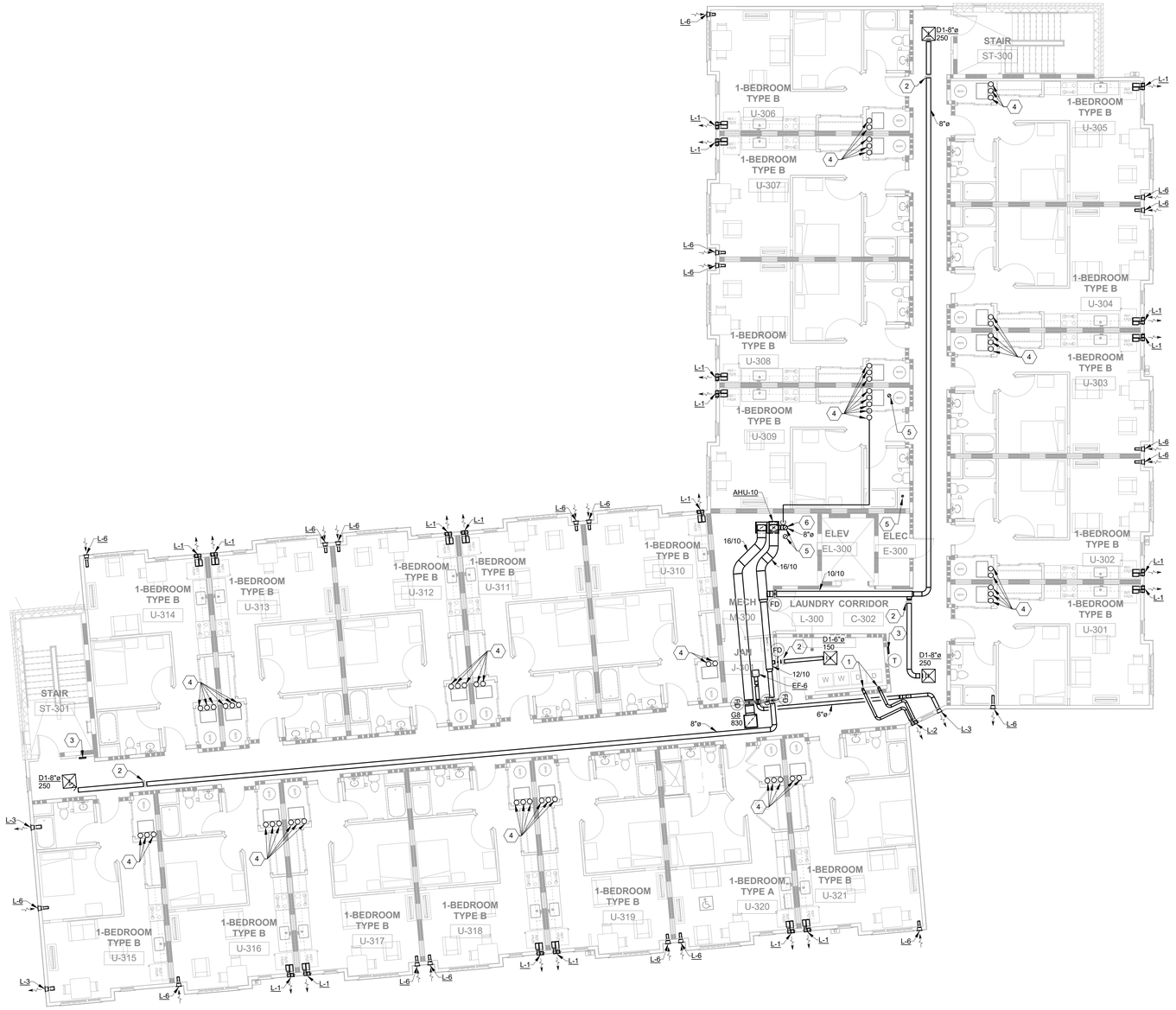

1 PLAN LEVEL 03 - FLOOR - PLAN - MECHANICAL
1/8" = 1'-0"

GENERAL NOTES:

1. PER THE OHIO MECHANICAL CODE, OUTSIDE AIR INTAKES MUST BE AT LEAST 10'-0" FROM CONTAMINATED EXHAUST SOURCES SUCH AS BATHROOM EXHAUST OR DRYER EXHAUST.
2. PER THE OHIO MECHANICAL CODE, CONTAMINATED EXHAUST SOURCES SUCH AS BATHROOM EXHAUST OR DRYER EXHAUST OPENINGS MUST BE AT LEAST 3'-0" FROM ANY OPERABLE WINDOW OR DOOR OPENING.
3. ALL EXHAUST DUCTWORK WITH CONNECTIONS TO THE OUTSIDE SHALL BE INSULATED A MINIMUM OF 10'-0" LINEAR FEET FROM THE EXTERIOR WALL CONNECTION.
4. ALL OUTSIDE AIR INTAKE DUCTWORK SHALLL BE INSULATED FROM AIR HANDLING UNIT TO THE EXTERIOR.
5. ALL SUPPLY AIR DUCTWORK, INCLUDING FLEX DUCT, SHALL BE INSULATED FROM AIR HANDLING UNIT TO AIR DEVICE.
6. PROVIDE CEILING RADIATION DAMPERS FOR ALL AIR DEVICES.
7. INSTALL ALL AIR HANDLING UNITS DIRECTLY BETWEEN STRUCTURAL TRUSSES OVERHEAD WHERE POSSIBLE.
8. GENERAL TRADES CONTRACTOR SHALL PROVIDE A CEILING ACCESS PANEL WHERE DUCT ACCESS DOORS ARE ABOVE DRYWALL CEILINGS. COORDINATE LOCATION OF THESE ACCESS POINTS.
9. COVER ALL TRANSFER AIR DUCT OPENINGS ABOVE CEILING WITH BIRD SCREEN.
10. ALL DUCTWORK TO BE INSTALLED ABOVE CEILINGS UNLESS NOTE OTHERWISE.

CODED NOTES:

1. 4"Ø DRYER EXHAUST TO BE CONSTRUCTED WITH A SMOOTH INTERIOR FINISH, VOID OF SCREWS AND SIMILAR FASTENERS THAT PROTRUDE MORE THAN 1/8" INCH INTO THE INSIDE OF THE DUCT. THE OVERALL RUN OF DUCT SHALL NOT EXCEED 35' EQUIVALENT FEET IN LENGTH, PER SECTION 504.8.4.1 OF THE OHIO MECHANICAL CODE. DUCT FITTINGS SHALL BE CONSTRUCTED WITH 10" RADIUS SMOOTH ELBOWS.
2. PROVIDE YOUNG'S REGULATOR ELECTRONIC BALANCE DAMPER WITH POSITION INDICATOR, 12V. PROVIDE PLENUM RATED 5 CONDUCTER WIRE. EXTEND TO MODEL EBD WALL UNIT.
3. PROVIDE MULTI PORT EBD-WALL PLATE TO ACCOMMODATE ASSOCIATED DAMPERS FOR SETTING DAMPER POSITION. EXTEND EBDC PLENUM RATED CABLE TO ALL DAMPERS IN AREA TO ALLOW FOR COMPLETE AIR BALANCE OF SYSTEM. PROVIDE ONE EBD-P DAMPER POSITIONER WITH DISPLAY METER.
4. REFRIGERANT PIPING. ROUTE AND SIZE PER MANUFACTURER'S RECOMMENDATIONS.
5. OUTSIDE AIR DUCT UP TO ROOF.
6. PROVIDE HONEYWELL EARD MOTORIZED DAMPER 24V IN OUTSIDE AIR DUCT. DAMPER TO BE INTERLOCKED WITH AIR HANDLING UNIT. DAMPER TO OPEN ONLY WHEN AHU IS IN HEATING OR COOLING MODE.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
LEVEL 03 - FLOOR PLAN - MECHANICAL

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

STATE OF OHIO · COLIN T. CATLETT · 3/29/22 · 80151 · PROFESSIONAL ENGINEER

APRIL 4, 2022

DRAWN BY: **MDH** | CHECKED BY: **CAT**

Proj. #20643

M103

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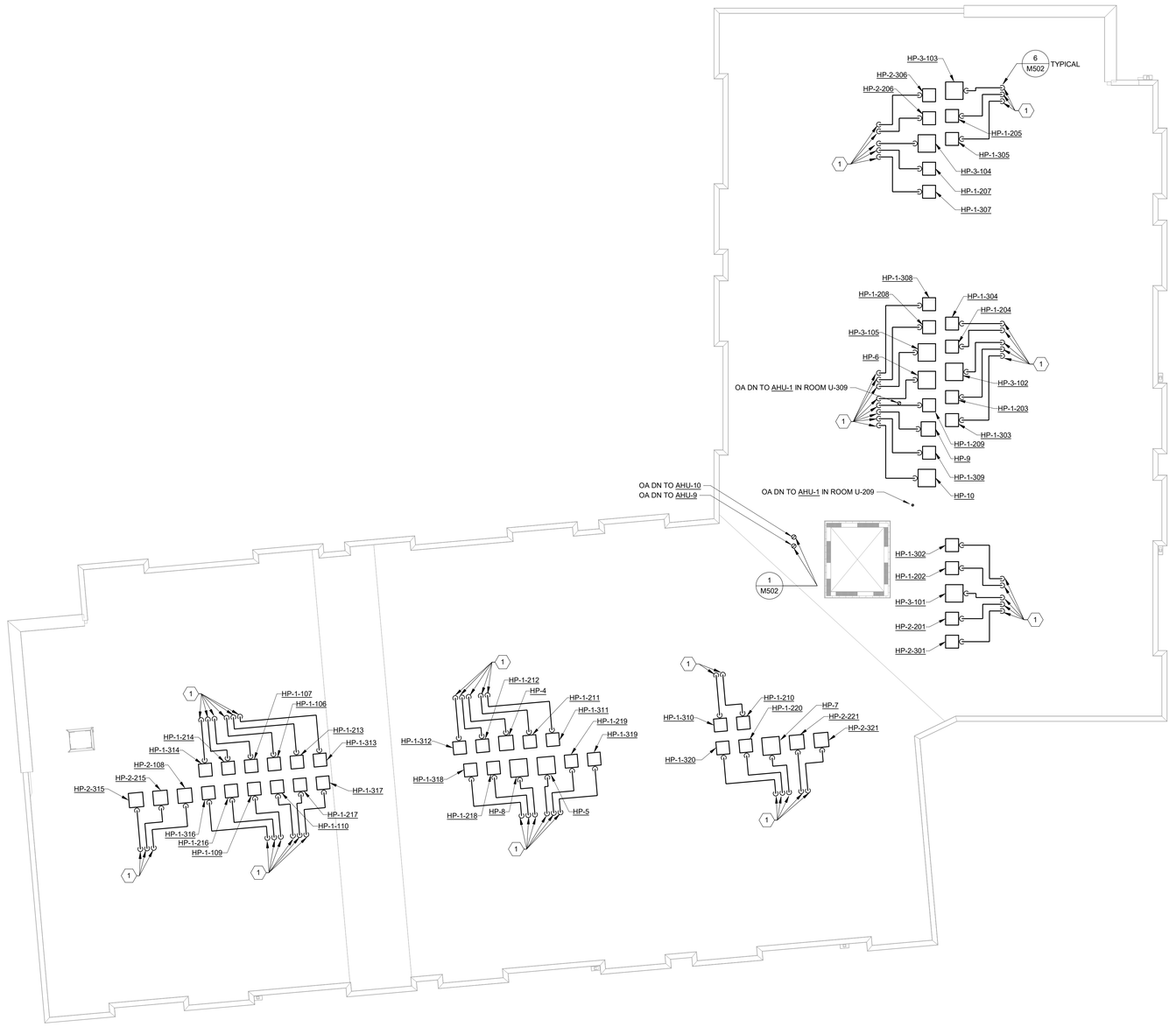

1 PLAN ROOF PLAN - MECHANICAL
1/8" = 1'-0"

GENERAL NOTES:

1. ALL HEAT PUMPS TO BE INSTALLED ABOVE PUBLIC CORRIDORS AND 10'-0" OR MORE FROM ROOF EDGE.

CODED NOTES:

1. REFRIGERANT PIPING. ROUTE AND SIZE PER MANUFACTURER'S RECOMMENDATIONS.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLUMBUSMHA.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

ROOF PLAN - MECHANICAL

APRIL 4, 2022

DRAWN BY: **MDH** | CHECKED BY: **CAT**

Proj. #20643

M104

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STATE OF OHIO 3/29/22 COLIN T. ROSS PROFESSIONAL ENGINEER

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

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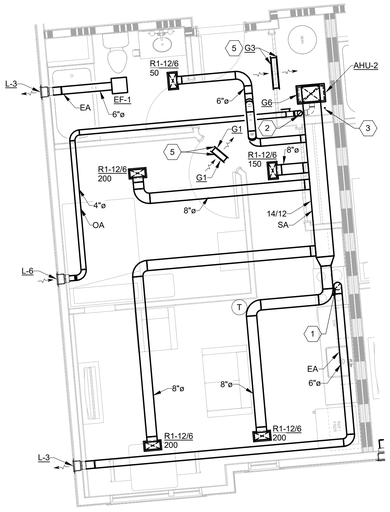
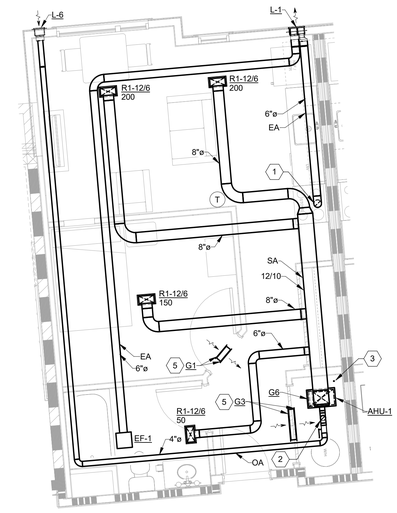
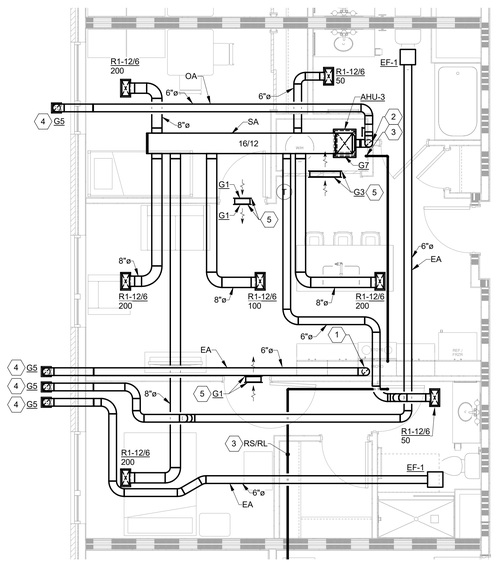


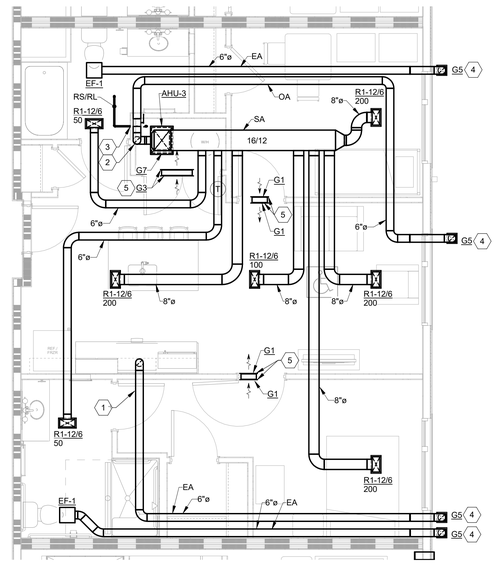
1 ENLARGED PLAN APARTMENTS U-108, U-215, U-315
1/4" = 1'-0" REF: 1 / M101



2 ENLARGED PLAN 1-BEDROOM TYPE B (UNLESS NOTED OTHERWISE)
1/4" = 1'-0" REF: 1 / M101



3 ENLARGED PLAN APARTMENTS U-104, U-105
1/4" = 1'-0" REF: 1 / M101



4 ENLARGED PLAN APARTMENTS U-102, U-103
1/4" = 1'-0" REF: 1 / M101

GENERAL NOTES:

1. PER THE OHIO MECHANICAL CODE, OUTSIDE AIR INTAKES MUST BE AT LEAST 10'-0" FROM CONTAMINATED EXHAUST SOURCES SUCH AS BATHROOM EXHAUST OR DRYER EXHAUST.
2. PER THE OHIO MECHANICAL CODE, CONTAMINATED EXHAUST SOURCES SUCH AS BATHROOM EXHAUST OR DRYER EXHAUST OPENINGS MUST BE AT LEAST 3'-0" FROM ANY OPERABLE WINDOW OR DOOR OPENING.
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4. ALL OUTSIDE AIR INTAKE DUCTWORK SHALLL BE INSULATED FROM AIR HANDLING UNIT TO THE EXTERIOR.
5. ALL SUPPLY AIR DUCTWORK, INCLUDING FLEX DUCT, SHALL BE INSULATED FROM AIR HANDLING UNIT TO AIR DEVICE.
6. PROVIDE CEILING RADIATION DAMPERS FOR ALL AIR DEVICES.
7. INSTALL ALL AIR HANDLING UNITS DIRECTLY BETWEEN STRUCTURAL TRUSSES OVERHEAD WHERE POSSIBLE.

CODED NOTES:

1. KITCHEN HOOD EXHAUST TO RUN ABOVE CEILING. PROVIDE RADIATION DAMPER AT CEILING PENETRATION.
2. PROVIDE HONEYWELL EARD MOTORIZED DAMPER 24V IN OUTSIDE AIR DUCT. DAMPER TO BE INTERLOCKED WITH AIR HANDLING UNIT. DAMPER TO OPEN ONLY WHEN AHU IS IN HEATING OR COOLING MODE.
3. REFRIGERANT PIPING FOR AIR HANDLING UNIT. RUN PIPING UP TO CONDENSING UNIT ON ROOF. REFER TO SHEET M-104 FOR PIPING CONTINUATION.
4. AIR DEVICE LOCATED IN SOFFIT.
5. TRANSFER AIR GRILLES TO BE MOUNTED ABOVE DOOR.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMPETENCE. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
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COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
ENLARGED PLANS - MECHANICAL

APRIL 4, 2022

DRAWN BY: **MDH** CHECKED BY: **CAT**

Proj. #20643

M401

PERMIT & BID SET

STATE OF OHIO · 3/29/22 · COLIN A. TOOLEY · 81201 · REGISTERED PROFESSIONAL ENGINEER

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
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Columbus, Ohio 43215
Tel: (614) 486-4778
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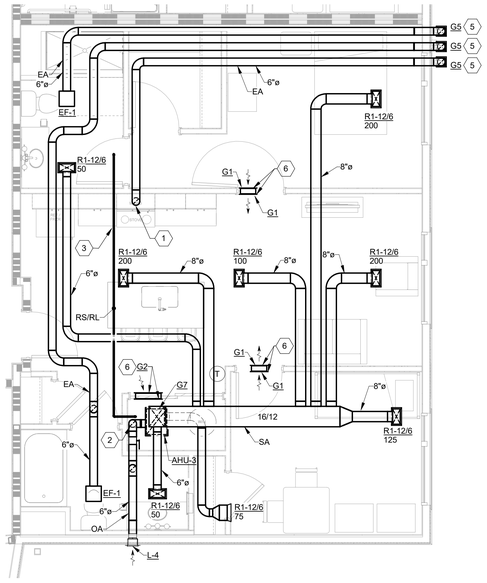
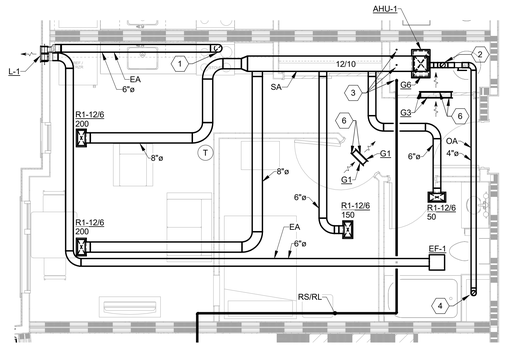


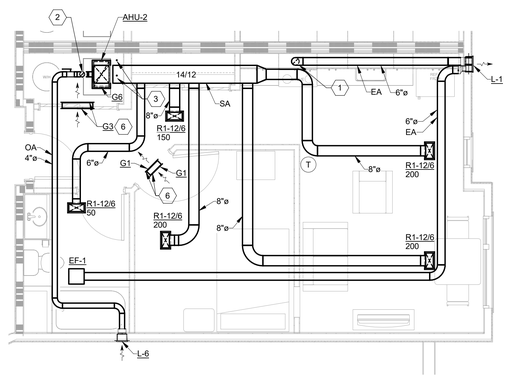
1 ENLARGED PLAN APARTMENT U-101

1/4" = 1'-0" REF: 1 / M101



2 ENLARGED PLAN APARTMENTS U-209, U-309

1/4" = 1'-0" REF: 1 / M102



3 ENLARGED PLAN APARTMENTS U-201, U-301

1/4" = 1'-0" REF: 1 / M102

GENERAL NOTES:

1. PER THE OHIO MECHANICAL CODE, OUTSIDE AIR INTAKES MUST BE AT LEAST 10'-0" FROM CONTAMINATED EXHAUST SOURCES SUCH AS BATHROOM EXHAUST OR DRYER EXHAUST.
2. PER THE OHIO MECHANICAL CODE, CONTAMINATED EXHAUST SOURCES SUCH AS BATHROOM EXHAUST OR DRYER EXHAUST OPENINGS MUST BE AT LEAST 3'-0" FROM ANY OPERABLE WINDOW OR DOOR OPENING.
3. ALL EXHAUST DUCTWORK WITH CONNECTIONS TO THE OUTSIDE SHALL BE INSULATED A MINIMUM OF 10'-0" LINEAR FEET FROM THE EXTERIOR WALL CONNECTION.
4. ALL OUTSIDE AIR INTAKE DUCTWORK SHALLL BE INSULATED FROM AIR HANDLING UNIT TO THE EXTERIOR.
5. ALL SUPPLY AIR DUCTWORK, INCLUDING FLEX DUCT, SHALL BE INSULATED FROM AIR HANDLING UNIT TO AIR DEVICE.
6. PROVIDE CEILING RADIATION DAMPERS FOR ALL AIR DEVICES.
7. INSTALL ALL AIR HANDLING UNITS DIRECTLY BETWEEN STRUCTURAL TRUSSES OVERHEAD WHERE POSSIBLE.

CODED NOTES:

1. KITCHEN HOOD EXHAUST TO RUN ABOVE CEILING. PROVIDE RADIATION DAMPER AT CEILING PENETRATION.
2. PROVIDE HONEYWELL EARD MOTORIZED DAMPER 24V IN OUTSIDE AIR DUCT. DAMPER TO BE INTERLOCKED WITH AIR HANDLING UNIT. DAMPER TO OPEN ONLY WHEN AHU IS IN HEATING OR COOLING MODE.
3. REFRIGERANT PIPING FOR AIR HANDLING UNIT. RUN PIPING UP TO CONDENSING UNIT ON ROOF. REFER TO SHEET M-104 FOR PIPING CONTINUATION.
4. OUTSIDE AIR DUCT FOR AIR HANDLING UNIT. RUN DUCT UP TO THE ROOF. REFER TO SHEET M-104 FOR DUCTWORK CONTINUATION.
5. AIR DEVICE LOCATED IN SOFFIT.
6. TRANSFER AIR GRILLES TO BE MOUNTED ABOVE DOOR.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
ENLARGED PLANS - MECHANICAL

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

STATE OF OHIO 3/29/22 COLIN T. CARR 75001 REGISTERED PROFESSIONAL ENGINEER

APRIL 4, 2022

DRAWN BY: **MDH** CHECKED BY: **CAT**

Proj. #20643

M402

PERMIT & BID SET

PRINT DATE: 3/31/2022 10:47:11 AM
FILE INFO: C:\Users\mcroquet\Documents\20643 Harriets Hope PSH_MEP -v21_Monique.Caldwell.rvt

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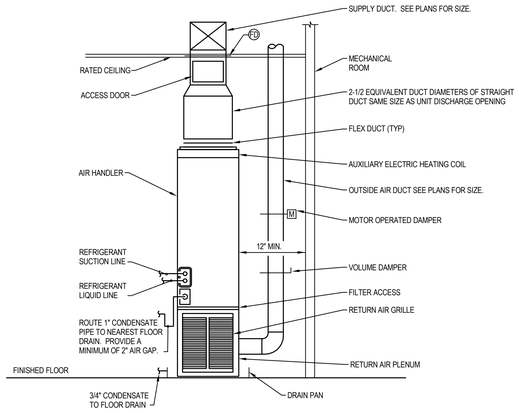
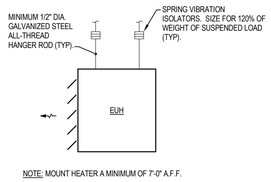


1 DETAIL DETAIL - TYPICAL AIR HANDLER UNIT
N.T.S.



2 DETAIL DETAIL - TYPICAL CEILING MOUNTED ELECTRIC UNIT HEATER
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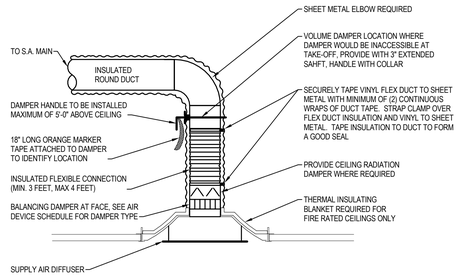
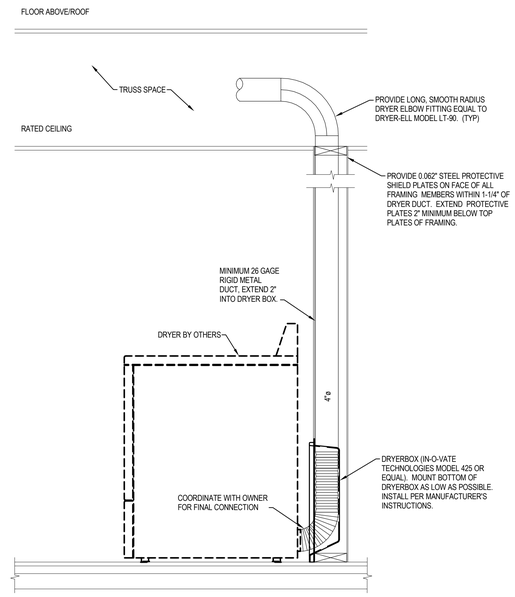
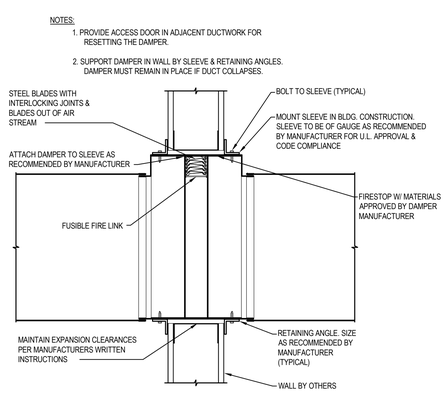


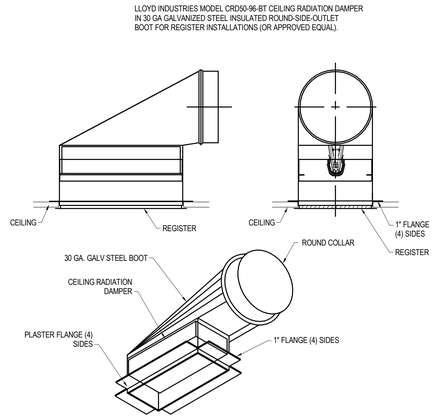
3 DETAIL DETAIL - TYPICAL CEILING RADIATION DAMPER AT DIFFUSER
N.T.S.



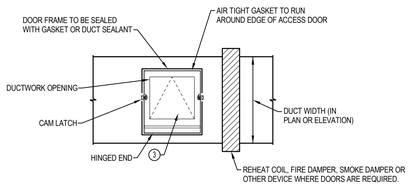
6 DETAIL DETAIL - TYPICAL DRYER VENT THRU WALL
N.T.S.



4 DETAIL DETAIL - TYPICAL FIRE DAMPER INSTALLATION
N.T.S.



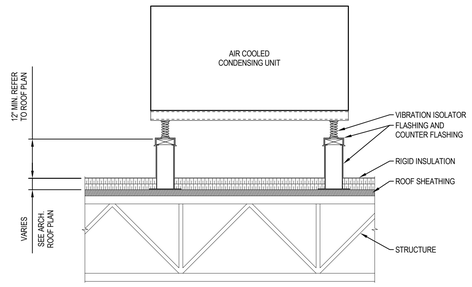
5 DETAIL DETAIL - TYPICAL CEILING RADIATION DAMPER AT REGISTER
N.T.S.



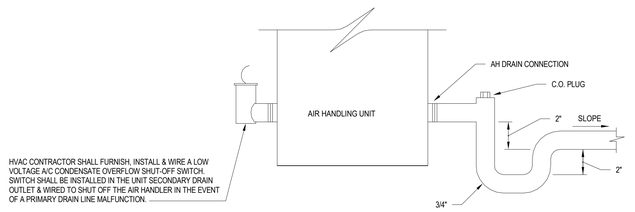
ACCESS DOOR SIZE SCHEDULE	
DUCT WIDTH	ACCESS DOOR SIZE
6" TO 10"	6" x 6" MINIMUM
10" TO 12"	8" x 8" MINIMUM
12" TO 21"	12" x 12" MINIMUM (1)
21" & ABOVE	18" x 18" MINIMUM (2)

(1) ACCESS DOORS TO 16"x16" WHERE DUCT SIZE AND SPACES ALLOWS
(2) FOUR CAM LATCHES ARE REQUIRED
(3) DOORS TO BE INSTALLED ON SIDE OR BOTTOM OF DUCT WITH BEST ACCESS

7 DETAIL DETAIL - TYPICAL DUCT ACCESS DOOR
N.T.S.



8 DETAIL DETAIL - TYPICAL EQUIPMENT CURB
N.T.S.



9 DETAIL DETAIL - TYPICAL AIR HANDLING UNIT CONDENSATION DRAIN SYSTEMS
N.T.S.

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

DETAILS - MECHANICAL

STATE OF OHIO · 3/29/22 · COLIN T. CALDWELL · 76261 · REGISTERED PROFESSIONAL ENGINEER

APRIL 4, 2022

DRAWN BY: **MDH** | CHECKED BY: **CAT**

Proj. #20643

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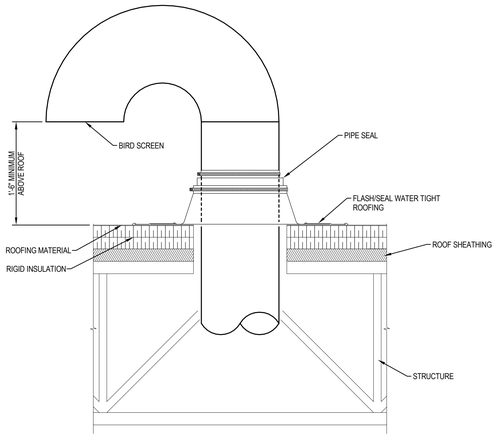
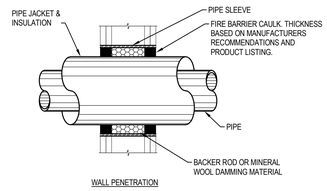


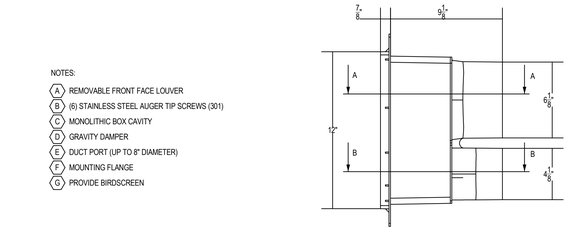
1 DETAIL DETAIL - TYPICAL INTAKE GOOSENECK
N.T.S.



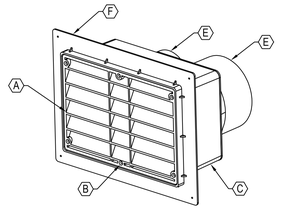
WALL PENETRATION

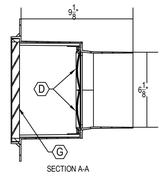
2 DETAIL DETAIL - TYPICAL FIRE RATED PIPING WALL PENETRATION
N.T.S.

NOTES:
- (A) REMOVABLE FRONT FACE LOUVER
- (B) (6) STAINLESS STEEL AUGER TIP SCREWS (301)
- (C) MONOLITHIC BOX CAVITY
- (D) GRAVITY DAMPER
- (E) DUCT PORT (UP TO 8" DIAMETER)
- (F) MOUNTING FLANGE
- (G) PROVIDE BIRDSCREEN

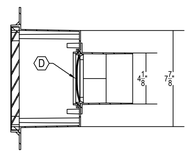


TOP VIEW





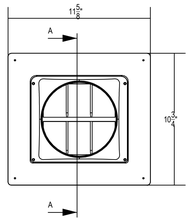
SECTION A-A



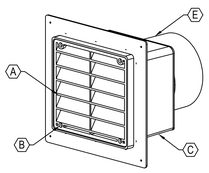
SECTION B-B

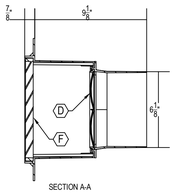
3 DETAIL DETAIL - TYPICAL LOUVER DUAL EXHAUST
N.T.S.

NOTES:
- (A) REMOVABLE FRONT FACE LOUVER
- (B) (4) STAINLESS STEEL AUGER TIP SCREWS (301)
- (C) MONOLITHIC BOX CAVITY
- (D) GRAVITY DAMPER
- (E) DUCT PORT (UP TO 6" DIAMETER)
- (F) BIRDSCREEN



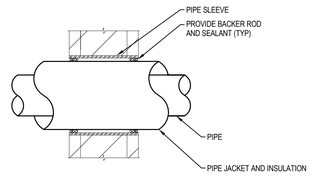
BACK VIEW



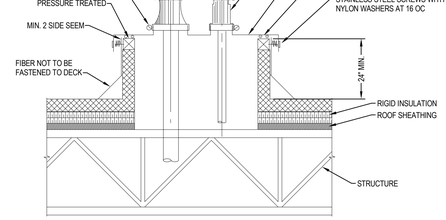


SECTION A-A

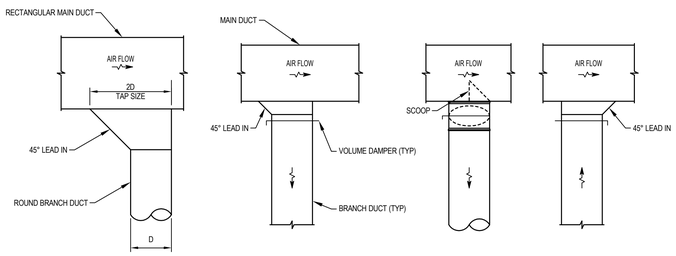
4 DETAIL DETAIL - TYPICAL LOUVER SINGLE EXHAUST
N.T.S.



5 DETAIL DETAIL - TYPICAL PIPING WALL PENETRATION
N.T.S.

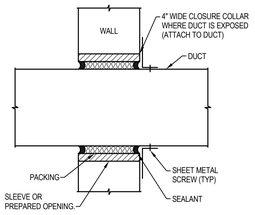


6 DETAIL DETAIL - TYPICAL REFRIGERANT PIPING ROOF PENETRATION
N.T.S.



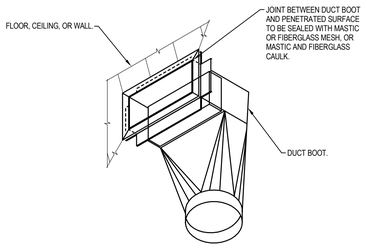
PROVIDE 18" LONG ORANGE MARKER TAPE ATTACHED TO DAMPER TO IDENTIFY LOCATION

7 DETAIL DETAIL - TYPICAL DUCT CONNECTIONS (2" WG PRESSURE CLASS OR LESS)
N.T.S.



NOTES:
A. DETAIL IS NOT APPLICABLE WHERE FIRE DAMPER, REGISTER, OR DIFFUSER IS PROVIDED.
B. EXTERNALLY INSULATED DUCT SHALL BE CAULKED TO PROVIDE A COMPLETE SEAL BETWEEN THE INSULATION AND CLOSURE COLLAR.

8 DETAIL DETAIL - TYPICAL DUCT PENETRATION THRU WALL
N.T.S.



9 DETAIL DETAIL - DUCT SEALING
N.T.S.

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

DETAILS - MECHANICAL

APRIL 4, 2022

DRAWN BY: MDH | CHECKED BY: CAT

Proj. #20643

M502

PERMIT & BID SET

STATE OF OHIO — COLIN TODD CALDWELL — 72681 — REGISTERED PROFESSIONAL ENGINEER — 3/29/22

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AIR HANDLING UNIT SCHEDULE

EQUIPMENT BASED ON BRYANT UNLESS NOTED OTHERWISE

UNIT DATA							COOLING COIL DATA					HEATING COIL DATA			ELECTRICAL DATA				NOTES
TAG	SERVICE	MODEL	MIN. O.A. CFM	CFM	MOTOR HP	WEIGHT LB.	TOTAL MBH	SENSIBLE MBH	REFRIG. TYPE	E.A.T. °F D.B.	E.A.T. °F W.B.	MODEL	NO.	TOTAL KW	VOLTS	PHASE	MCA	MOCP	
AHU-1	TYPICAL APARTMENT	FB4CNP018L	30	600	1/3	117	17.31	13.12	R-410A	78.40	65.40	KFCEH2501C08	1	8	208	1	44.7	45	ALL
AHU-2	TYPICAL APARTMENT	FB4CNP025L	30	800	1/3	128	21.49	16.53	R-410A	78.40	65.40	KFCEH2501C08	1	8	208	1	44.7	45	ALL
AHU-3	TYPICAL APARTMENT	FB4CNF030L	45	1000	1/3	128	27.67	21.46	R-410A	78.40	65.40	KFCEH2601C10	1	10	208	1	53.8	60	ALL
AHU-4	1ST FLOOR OFFICES	FB4CNP025L	100	800	1/3	128	21.49	16.53	R-410A	78.40	65.40	KFCEH2501C08	1	8	208	1	44.7	45	ALL
AHU-5	1ST FLOOR MEETING ROOMS	FB4CNF036L	210	1200	1/2	128	32.26	25.22	R-410A	78.40	65.42	KFCEH2601C10	1	10	208	1	53.8	60	ALL
AHU-6	1ST FLOOR LOBBY	FB4CNF048L	330	1600	3/4	162	45.05	34.18	R-410A	78.40	65.42	KFCEH3001F15	1	15	208	1	76.3	80	ALL
AHU-7	1ST FLOOR WEST COMMUNITY ROOM	FB4CNF030L	190	1000	1/3	128	27.67	21.46	R-410A	78.40	65.40	KFCEH2601C10	1	10	208	1	53.8	60	ALL
AHU-8	1ST FLOOR EAST COMMUNITY ROOM	FB4CNF048L	160	1600	3/4	162	45.05	34.18	R-410A	78.40	65.42	KFCEH3001F15	1	15	208	1	76.3	80	ALL
AHU-9	2ND FLOOR LAUNDRY / CORRIDOR	FB4CNP025L	170	800	1/3	128	21.49	16.53	R-410A	78.40	65.40	KFCEH2501C08	1	8	208	1	44.7	45	ALL
AHU-10	3RD FLOOR LAUNDRY / CORRIDOR	FB4CNF030L	170	1000	1/3	128	27.67	21.46	R-410A	78.40	65.40	KFCEH2601C10	1	10	208	1	53.8	60	ALL

NOTES:
1. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT.
2. ELECTRIC HEATER 10 KW AND LESS WITH CIRCUIT BREAKER. ELECTRIC HEATER 15 KW AND MORE TO BE FUSED.
3. ALL UNITS SHALL HAVE A SINGLE POINT ELECTRICAL WIRING CONNECTION.
4. ECM FAN MOTOR.
5. PROVIDE WITH FILTER HOUSING.
6. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT.
7. REFER TO FLOOR PLAN FOR QUANTITY OF UNITS.

AIR COOLED HEAT PUMP SCHEDULE

EQUIPMENT BASED ON BRYANT UNLESS NOTED OTHERWISE

UNIT DATA							CONDENSER DATA		ELECTRICAL DATA				NOTES
TAG	SERVICE	MODEL	WEIGHT LB.	NOMINAL COOLING CAPACITY (TONS)	SEER	HEATING CAPACITY @ 47°F (BTUH)	MOTOR FLA	REFRIG. TYPE	VOLTS	PHASE	MCA	MOCP	
HP-1	SERVES AHU-1	214DNA018P00	166	1.5	14	17,600	0.50	R-410A	208	1	11.8	20	ALL
HP-2	SERVES AHU-2	214DNA024P00	175	2	14.5	22,200	0.60	R-410A	208	1	14.2	25	ALL
HP-3	SERVES AHU-3	214DNA030P00	180	2.5	14	28,600	1.40	R-410A	208	1	18.3	30	ALL
HP-4	SERVES AHU-4	214DNA024P00	175	2	14.5	22,200	0.60	R-410A	208	1	14.2	25	ALL
HP-5	SERVES AHU-5	214DNA036P00	201	3	14	33,800	1.10	R-410A	208	1	20	30	ALL
HP-6	SERVES AHU-6	214DNA048P00	232	4	14	45,500	1.40	R-410A	208	1	25.2	40	ALL
HP-7	SERVES AHU-7	214DNA030P00	180	2.5	14	28,600	1.40	R-410A	208	1	18.3	30	ALL
HP-8	SERVES AHU-8	214DNA048P00	232	4	14	45,500	1.40	R-410A	208	1	25.2	40	ALL
HP-9	SERVES AHU-9	214DNA024P00	175	2	14.5	22,200	0.60	R-410A	208	1	14.2	25	ALL
HP-10	SERVES AHU-10	214DNA030P00	180	2.5	14	28,600	1.40	R-410A	208	1	18.3	30	ALL

NOTES:
1. PROVIDE UNIT WITH HAIL GUARD.
2. LOW-AMBIENT PRESSURE SWITCH.
3. CRANKCASE HEATER.
4. EVAPORATOR FREEZE THERMOSTAT.
5. START ASSIST.
6. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT.
7. REFER TO FLOOR PLANS FOR QUANTITY OF UNITS.

FAN SCHEDULE

EQUIPMENT BASED ON GREENHECK UNLESS NOTED OTHERWISE

UNIT DATA											ELECTRICAL DATA				NOTES
TAG	LOCATION	MODEL	FUNCTION	FAN TYPE	E.S.P. IN W.G.	CFM	RPM	TYPE OF DAMPER	TYPE OF DRIVE	SOUND RATING IN SONES	HP	VOLTS	PHASE	AMPS	
EF-1	APARTMENT	SP-B110	EXHAUST	CENTRIFUGAL	0.7	75	950	BACKDRAFT	DIRECT	LOW FLOW: 1.0 HIGH FLOW: 3.0	N/A	115	1	1.15	1, 2, 3, 5
EF-2	TOILET	SP-B110	EXHAUST	CENTRIFUGAL	0.7	75	950	BACKDRAFT	DIRECT	LOW FLOW: 1.0 HIGH FLOW: 3.0	N/A	115	1	1.15	1, 2, 3, 5
EF-3	TOILET	SP-B110	EXHAUST	CENTRIFUGAL	0.7	75	950	BACKDRAFT	DIRECT	LOW FLOW: 1.0 HIGH FLOW: 3.0	N/A	115	1	1.15	1, 2, 3, 5
EF-4	JANITOR J-101	SP-A50-90 -VG	EXHAUST	CENTRIFUGAL	0.75	50	808	BACKDRAFT	DIRECT	2.5	N/A	115	1	(6 WATTS)	1, 3, 4, 5
EF-5	JANITOR J-201	SP-B110	EXHAUST	CENTRIFUGAL	0.7	75	950	BACKDRAFT	DIRECT	3.0	N/A	115	1	1.15	1, 3, 4, 5
EF-6	JANITOR J-301	SP-B110	EXHAUST	CENTRIFUGAL	0.7	75	950	BACKDRAFT	DIRECT	3.0	N/A	115	1	1.15	1, 3, 4, 5

NOTES:
1. PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT.
2. PROVIDE WALL MOUNTED MOTION DETECTOR TO CONTROL EXHAUST FAN. DETECTOR TO BE PROVIDED WITH FAN. WHEN OCCUPIED, FAN IS OPERATING AT 75 CFM AND WHEN NOT OCCUPIED THE FAN IS OPERATED AT 35 CFM CONTINUOUSLY (ADJUSTABLE). SET DURATION TO BE 10 MINUTES AT 75 CFM WHEN OCCUPIED (ADJUSTABLE).
3. PROVIDE EXHAUST FAN WITH RADIATION DAMPER.
4. FAN TO OPERATE CONTINUOUSLY.
5. PROVIDE WITH VIBRATION ISOLATION KIT.

LOUVER SCHEDULE

EQUIPMENT BASED ON XVENT UNLESS NOTED OTHERWISE

UNIT DATA								NOTES
TAG	SERVICE	MODEL	FUNCTION	FACE DIMENSION W x H	FREE FACE AREA (SF)	VEL. FPM	DAMPER	
L-1	SEE PLANS	DHEB-66-BRS	EXHAUST	15.75" X 11.625"	0.440	N/A	BACKDRAFT	
L-2	SEE PLANS	DHEB-44-BRS	EXHAUST	15.75" X 11.625"	0.396	N/A	BACKDRAFT	
L-3	SEE PLANS	6SEB-BRS	EXHAUST	11.75" X 10.875"	0.220	N/A	BACKDRAFT	
L-4	SEE PLANS	6SEB-BRS	INTAKE	11.75" X 10.875"	0.220	N/A	NONE	
L-5	SEE PLANS	4SEB-BRS	EXHAUST	11.75" X 10.875"	0.198	N/A	BACKDRAFT	
L-6	SEE PLANS	4SEB-BRS	INTAKE	11.75" X 10.875"	0.198	N/A	NONE	

AIR DEVICE SCHEDULE

EQUIPMENT BASED ON TITUS UNLESS NOTED OTHERWISE

SUPPLY DIFFUSER TAG: TAG-NECK SIZE CFM
RETURN / EXHAUST GRILLE TAG: TAG CFM
D= DIFFUSER G= GRILLE R= REGISTER

UNIT DATA										NOTES
TAG	FUNCTION	MODEL	FACE SIZE	NECK SIZE	TYPE	MATERIAL	FINISH	DAMPER	N.C. MAX.	
D1	SUPPLY	OMNI	24" X 24"	SEE PLANS	SURFACE	STEEL	WHITE	IN DUCT	20	PROVIDE MOLDED INSULATION BLANKET.
D2	SUPPLY	OMNI	12" X 12"	SEE PLANS	SURFACE	STEEL	WHITE	IN DUCT	20	PROVIDE MOLDED INSULATION BLANKET.
D3	SUPPLY	301RL	8" X 8"	6" X 6"	DUCT MOUNTED	STEEL	WHITE	IN DUCT	20	
G1	RETURN / EXHAUST	350FL	14" X 8"	12" X 6"	SURFACE	ALUMINUM	WHITE	NO	20	
G2	RETURN / EXHAUST	350FL	22" X 12"	20" X 10"	SURFACE	ALUMINUM	WHITE	NO	20	
G3	RETURN / EXHAUST	350FL	26" X 14"	24" X 12"	SURFACE	ALUMINUM	WHITE	NO	20	
G4	RETURN / EXHAUST	350RL	24" X 12"	22" X 10"	SURFACE	STEEL	WHITE	IN DUCT	20	
G5	INTAKE / EXHAUST	350FL	8" X 8"	6" X 6"	SURFACE	ALUMINUM	WHITE	NO	20	
G6	RETURN / EXHAUST	350FL	14" X 22"	12" X 20"	SURFACE	ALUMINUM	WHITE	NO	20	
G7	RETURN / EXHAUST	350FL	18" X 22"	16" X 20"	SURFACE	ALUMINUM	WHITE	NO	20	
G8	RETURN / EXHAUST	350RL	24" X 24"	22" X 22"	SURFACE	STEEL	WHITE	IN DUCT	20	
G9	INTAKE / EXHAUST	350FL	12" X 12"	10" X 10"	SURFACE	ALUMINUM	WHITE	NO	20	
R1	SUPPLY	AIRMATE 160	14" X 8"	12" X 6"	SURFACE	STEEL	WHITE	YES	20	

ELECTRIC UNIT HEATER SCHEDULE

EQUIPMENT BASED ON QMARK UNLESS NOTED OTHERWISE

UNIT DATA				HEATING ELEMENTS				NOTES
TAG	LOCATION	MODEL	TYPE	TOTAL KW	VOLTS	PHASE	AMPS	
EUH-1	ST-100 STAIR	AWH4408F	SEMI - RECESSED	4	208	1	19.2	1, 2, 3
EUH-2	ST-101 STAIR	AWH4408F	SEMI - RECESSED	4	208	1	19.2	1, 2, 3
EUH-3	W-100 WATER	MUH03-81	CEILING MOUNTED (HUNG)	3	208	1	14.5	1, 2, 4
EUH-4	M-101B MECH/ELEC	MUH03-81	CEILING MOUNTED (HUNG)	3	208	1	14.5	1, 2, 4
EUH-5	V-101 VESTIBULE	AWH4408F	RECESSED	4	208	1	19.2	1, 2, 3

NOTES:
1. PROVIDE FACTORY INSTALLED DISCONNECT SWITCH.
2. PROVIDE UNIT MOUNTED THERMOSTAT.
3. PROVIDE SEMI-RECESSED MOUNTING FRAME. AWHS2.
4. PROVIDE OPTIONAL BRACKET FOR CEILING MOUNTED UNIT.

DUCT CONSTRUCTION SCHEDULE

DUCT LOCATION	DUCT CONSTRUCTION: SHAPE: ROUND OR OVAL	SHAPE: RECTANGULAR	TYPE: SINGLE WALL	TYPE: DOUBLE WALL	PRESSURE CLASS (IN WG)	LEAKAGE CLASS (CFM PER 100 SF @ 1 IN WG)	MATERIAL: GALVANIZED STEEL	MATERIAL: GALVANIZED STEEL PVC COATED	MATERIAL: ALUMINUM	MATERIAL: STAINLESS STEEL TYPE 304	MATERIAL: STAINLESS STEEL TYPE 316	NOTES
OUTDOOR AIR OR COMBUSTION AIR DUCT												
Indoors Concealed From View	X		X		-2 or +2	NA	X		X	X	X	
	X			X	-2 or +2	NA	X		X	X	X	
		X	X		-2 or +2	NA	X		X	X	X	
		X		X	-2 or +2	NA	X		X	X	X	
Indoors Exposed to View in Unfinished Space	X		X		-2 or +2	NA	X		X	X	X	
	X			X	-2 or +2	NA	X		X	X	X	
		X	X		-2 or +2	NA	X		X	X	X	
		X		X	-2 or +2	NA	X		X	X	X	
Outdoors	X	X	X		-2 or +2	4	X	X	X	X	X	
SUPPLY AIR DUCT												
Indoors Concealed From View: VAV Downstream From Terminal Box or CAV <2000 CFM	X		X		+1	NA	X		X	X	X	
	X			X	+1	NA	X		X	X	X	
		X	X		+1	NA	X		X	X	X	
		X		X	+1	NA	X		X	X	X	
Indoors Exposed to View in Unfinished Space: VAV Downstream From Terminal Box or CAV <2000 CFM	X		X		+1	NA	X		X	X	X	
	X			X	+1	NA	X		X	X	X	
		X	X		+1	NA	X		X	X	X	
		X		X	+1	NA	X		X	X	X	
RETURN AIR OR MIXED AIR DUCT												
Indoors Concealed From View	X		X		-2 or +2	NA	X		X	X	X	
	X			X	-2 or +2	NA	X		X	X	X	
		X	X		-2 or +2	NA	X		X	X	X	
		X		X	-2 or +2	NA	X		X	X	X	
Indoors Exposed to View in Unfinished Space	X		X		-2 or +2	NA	X		X	X	X	
	X			X	-2 or +2	NA	X		X	X	X	
		X	X		-2 or +2	NA	X		X	X	X	
		X		X	-2 or +2	NA	X		X	X	X	
TRANSFER AIR DUCT												
Indoors Concealed From View	X		X		-1 or +1	NA	X		X	X	X	
		X	X		-1 or +1	NA	X		X	X	X	
CLASS 1 OR 2 EXHAUST AIR DUCT												
Indoors Concealed From View	X		X		-2 or +2	NA	X		X	X	X	
		X	X		-2 or +2	NA	X		X	X	X	

NOTES:

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
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FOR
CMHA

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DRAWING TITLE:

SCHEDULES - MECHANICAL

APRIL 4, 2022

DRAWN BY: MDH | CHECKED BY: CAT

Proj. #20643

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STATE OF OHIO — 3/29/22 — COLIN T. CATLETT — 72681 — REGISTERED PROFESSIONAL ENGINEER

ADVANCED ENGINEERING CONSULTANTS
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VENTILATION SCHEDULE (AHU-4)

"Zone Name and Number"	"Occupancy Category"	"Zone Floor Area" Az (sq ft)	Are you using default value for zone population ?	"Zone Population" Pz (people)	Zone Air Distribution Effectiveness Ez	"Zone Outdoor Airflow" Voz (cfm)	"Zone Discharge Airflow" Vdz (cfm)	"Zone Primary Airflow" Vpz (cfm)	Zone Secondary Recirculation Fraction Er	Zone Primary Air Fraction Ep
M-101B MECH/ELEC	Electrical equipment rooms	155	No	0.00	0.80	11.63	85	85	0.75	1.00
AD-101 ADMIN	Office space	125	No	1.00	0.80	15.63	150	150	0.75	1.00
WK-101 WORK	Office space	210	No	2.00	0.80	28.25	200	200	0.75	1.00
MT-101 MTNCE	Office space	85	No	1.00	0.80	12.63	75	75	0.75	1.00
L-101 LAUNDRY	Laundry rooms, central	95	No	1.00	0.80	20.50	100	100	0.75	1.00
C-101 CORRIDOR	Corridors	325	No	0.00	0.80	24.38	150	150	0.75	1.00

VENTILATION SCHEDULE (AHU-5)

"Zone Name and Number"	"Occupancy Category"	"Zone Floor Area" Az (sq ft)	Are you using default value for zone population ?	"Zone Population" Pz (people)	Zone Air Distribution Effectiveness Ez	"Zone Outdoor Airflow" Voz (cfm)	"Zone Discharge Airflow" Vdz (cfm)	"Zone Primary Airflow" Vpz (cfm)	Zone Secondary Recirculation Fraction Er	Zone Primary Air Fraction Ep
S-101B STORAGE	Storage rooms	80	No	0.00	0.80	12.00	50	50	0.75	1.00
MG-101A MEETING	Conference / meeting	90	No	4.00	0.80	31.75	140	140	0.75	1.00
MG-101B MEETING	Conference / meeting	90	No	4.00	0.80	31.75	140	140	0.75	1.00
MG-101C MEETING	Conference / meeting	90	No	4.00	0.80	31.75	140	140	0.75	1.00
MG-101D MEETING	Conference / meeting	260	No	16.00	0.80	119.50	650	650	0.75	1.00
C-102 CORRIDOR	Corridors	135	No	0.00	0.80	10.13	50	50	0.75	1.00

VENTILATION SCHEDULE (AHU-6)

"Zone Name and Number"	"Occupancy Category"	"Zone Floor Area" Az (sq ft)	Are you using default value for zone population ?	"Zone Population" Pz (people)	Zone Air Distribution Effectiveness Ez	"Zone Outdoor Airflow" Voz (cfm)	"Zone Discharge Airflow" Vdz (cfm)	"Zone Primary Airflow" Vpz (cfm)	Zone Secondary Recirculation Fraction Er	Zone Primary Air Fraction Ep
C-100 CORRIDOR	Corridors	550	No	0.00	0.80	41.25	100	100	0.75	1.00
L-100 LAUNDRY	Laundry rooms, central	90	No	2.00	0.80	26.00	100	100	0.75	1.00
PA-100 PARCEL/STORAGE	Storage rooms	40	No	0.00	0.80	6.00	50	50	0.75	1.00
CP-101 COMPUTER	Computer lab	200	No	4.00	0.80	80.00	400	400	0.75	1.00
LB-101 LOBBY	Lobbies	1,320	No	8.00	0.80	149.00	950	950	0.75	1.00

VENTILATION SCHEDULE (AHU-7 & AHU-8)

"System Name and Number"	"Condition Analyzed (impacts Ez)"	"Occupancy Category "	"Zone Floor Area" Az (sq ft)	Are you using default value for zone population?	"Zone Population" Pz people	Zone Air Distribution Effectiveness Ez	"Zone Outdoor Airflow" Voz (cfm)	Outdoor air intake flow provided (measured or design) (cfm)
AHU-7	Heating	Conference / meeting	490	No	24.00	0.80	187	190
AHU-8	Heating	Conference / meeting	450	No	20.00	0.80	159	160

VENTILATION SCHEDULE (AHU-9)

"Zone Name and Number"	"Occupancy Category"	"Zone Floor Area" Az (sq ft)	Are you using default value for zone population ?	"Zone Population" Pz (people)	Zone Air Distribution Effectiveness Ez	"Zone Outdoor Airflow" Voz (cfm)	"Zone Discharge Airflow" Vdz (cfm)	"Zone Primary Airflow" Vpz (cfm)	Zone Secondary Recirculation Fraction Er	Zone Primary Air Fraction Ep
C-200 CORRIDOR	Corridors	455	No	0.00	0.80	34.13	200	200	0.75	1.00
C-201 CORRIDOR	Corridors	705	No	0.00	0.80	52.88	200	200	0.75	1.00
C-202 CORRIDOR	Corridors	295	No	0.00	0.80	22.13	200	200	0.75	1.00
L-200 LAUNDRY	Laundry rooms, central	145	No	0.00	0.80	21.75	150	150	0.75	1.00

VENTILATION SCHEDULE (AHU-10)

"Zone Name and Number"	"Occupancy Category"	"Zone Floor Area" Az (sq ft)	Are you using default value for zone population ?	"Zone Population" Pz (people)	Zone Air Distribution Effectiveness Ez	"Zone Outdoor Airflow" Voz (cfm)	"Zone Discharge Airflow" Vdz (cfm)	"Zone Primary Airflow" Vpz (cfm)	Zone Secondary Recirculation Fraction Er	Zone Primary Air Fraction Ep
						Vbz / Ez				Vpz/Vdz
C-300 CORRIDOR	Corridors	455	No	0.00	0.80	34.13	250	250	0.75	1.00
C-301 CORRIDOR	Corridors	705	No	0.00	0.80	52.88	250	250	0.75	1.00
C-302 CORRIDOR	Corridors	295	No	0.00	0.80	22.13	250	250	0.75	1.00
L-300 LAUNDRY	Laundry rooms, central	145	No	0.00	0.80	21.75	150	150	0.75	1.00

VENTILATION SCHEDULE SUMMARY

"System Name and Number"	"System Type"	"All zones included in the VRP calculation?"	"Condition Analyzed"	"System Floor Area" As (sq ft)	System Population Ps (people)	"Outdoor Air Intake Flow (required by 62.1)" Vot (cfm)	"Outdoor Air Intake Flow Provided (measured or design)" (cfm)	"Outdoor air intake flow provided meets or exceeds Vot?"	Zone outdoor airflow provided meets or exceeds Voz for all zones?
Multiple Zone Systems									
AHU-4	Multiple zone	Yes	Heating	995	5.00	96	100	Yes	n/a
AHU-5	Multiple zone	Yes	Heating	745	28.00	208	210	Yes	n/a
AHU-6	Multiple zone	Yes	Heating	2,200	14.00	327	330	Yes	n/a
AHU-9	Multiple zone	Yes	Heating	1,600	0.00	118	170	Yes	n/a
AHU-10	Multiple zone	Yes	Heating	1,600	0.00	111	170	Yes	n/a
Single Zone Systems									
AHU-7	Single zone	n/a	Heating	490	24.00	187	190	Yes	n/a
AHU-8	Single zone	n/a	Heating	450	20.00	159	160	Yes	n/a

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ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	
(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
A	AMPERE
AC	ALTERNATING CURRENT OR AIR CONDITIONER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
ANNC	ANNUNCIATOR
AWG	AMERICAN WIRE GAUGE
BPS	BOLTED PRESSURE SWITCH
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
DC	DIRECT CURRENT
DP	DISTRIBUTION PANELBOARD
DTT	DOUBLE TWIN TUBE
EB	ELECTRONIC BALLAST
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMT	ELECTRICAL METAL TUBING
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FLA	FULL LOAD AMPS
G	GROUND
GC	GENERAL TRADES CONTRACTOR
GF	GROUND FAULT CIRCUIT INTERRUPTER
GEN	GENERATOR
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPC	HIGH PRESSURE CONTACT SWITCH
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INCD	INCANDESCENT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING OR LIGHT
LRA	LOCKED ROTOR AMPS
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MAIN SWITCHBOARD
MH	METAL HALIDE
MTS	MANUAL TRANSFER SWITCH
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NF	NON-FUSED
OCC	OCCUPANCY
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSH BUTTON
POE	POWER OVER ETHERNET
PVC	POLYVINYL CHLORIDE (PLASTIC PIPE)
PWR	POWER
RECPT	RECEPTACLE
SCA	SHORT-CIRCUIT AMPS
STP	SHIELDED, TWISTED PAIR
TC	TIME CLOCK
TRT	TRIPLE TUBE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UTP	UNSHIELDED, TWISTED PAIR
V	VOLT
W	WATT
WAP	WIRELESS ACCESS POINT
WH	WATTHOUR
WP	WEATHERPROOF, NEMA 3R UNO
XFMR	TRANSFORMER
Z	IMPEDANCE
PH	PHASE

LIGHTING SYMBOLS

NOTE: NOT ALL SYMBOLS MAY BE USED.	
	GENERAL PURPOSE LUMINAIRE: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	ROUND LUMINAIRE: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	WALL WASHER: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	WALL MOUNTED LUMINAIRE: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	WALL MOUNTED DECORATIVE LUMINAIRE: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	WALL MOUNTED FLOOD LIGHT: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	TRACK LIGHTING
	TRACK LIGHTING HEAD
	REMOTE HEAD
	STEP LIGHT
	EMERGENCY LIGHT
	EXIT SIGN
	CEILING MOUNTED ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROWS
	EMERGENCY DUAL FACE ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROWS
	EXIT SIGN WITH INTEGRAL HEADS
$X	SWITCH: X=BLANK-SINGLE POLE 20A, TOGGLE; X=3-THREE WAY; X=4-FOUR WAY; X=P-PILOT LIGHT; X=K-KEY; X=MS-MOMENTARY;
PC	PHOTOCELL
OS X	CEILING MOUNTED OCCUPANCY SENSOR: X = BLANK - DUAL TECHNOLOGY; X = IR - PASSIVE INFRARED; X = US - ULTRASONIC
OS	CEILING MOUNTED DAYLIGHT HARVESTING SENSOR
OS X	WALL MOUNTED OCCUPANCY SENSOR: X = BLANK - DUAL TECHNOLOGY; X = IR - PASSIVE INFRARED; X = US - ULTRASONIC; X = D - COMBINATION OCCUPANCY SENSOR/DIMMING (0-10V) CONTROL.
D X	WALL MOUNTED DIMMING CONTROL: X = BLANK - 0-10V DIMMING; X = T-LINE VOLTAGE TRIAC DIMMING; 120V, MINIMUM 800VA.
J	JUNCTION BOX
	PANELBOARD
	LIGHTING CONTROL PANEL
	LOW VOLTAGE TRANSFORMER

POWER SYMBOLS

NOTE: NOT ALL SYMBOLS MAY BE USED.	
X Y Z	20A DUPLEX RECEPTACLE WITH COVER PLATE: X=TYPE, Y"=NON-STANDARD MOUNTING HEIGHT, Z=SPECIAL DESIGNATION, (18" AFF TYPICAL)
U	DUPLEX RECEPTACLE WITH DUAL TYPE A USB PORTS
X Y Z	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT WITH COVER PLATE: X=TYPE, Y"=NON-STANDARD MTG HEIGHT, Z=SPECIAL DESIGNATION, (18" AFF TYPICAL)
F,C	FLOOR OR CEILING MOUNTED DUPLEX RECEPTACLE: F=FLOOR, C=CEILING
	DUPLEX RECEPTACLE: ABOVE COUNTER (48" AFF TYPICAL)
	DOUBLE-DUPLEX RECEPTACLE WITH SINGLE COVER PLATE
	SIMPLEX RECEPTACLE WITH COVER PLATE
WP	WEATHER RESISTANT DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTING WITH IN-USE COVER
	WALL MOUNTED SPECIAL RECEPTACLE: REFER TO PLANS FOR ADDITIONAL INFORMATION
F,C	FLOOR OR CEILING MOUNTED SPECIAL RECEPTACLE: F=FLOOR, C=CEILING REFER TO PLANS FOR ADDITIONAL INFORMATION
	SURFACE MOUNTED RACEWAY
X Y Z	STANDARD DISCONNECT SWITCH: X=DISCONNECT SIZE, Y=NUMBER OF POLES
X Y Z	STANDARD FUSED DISCONNECT SWITCH: X=DISCONNECT SIZE, Y=FUSE SIZE, Z=NUMBER OF POLES
X Y Z	MOTOR STARTER: X=STARTER SIZE, Y=NUMBER OF POLES
X Y Z	COMBINATION MOTOR STARTER/DISCONNECT SWITCH: X=STARTER SIZE, Y=FUSE SIZE, Z=NUMBER OF POLES
	MOTOR (BY OTHERS): PROVIDE POWER AS INDICATED
M	UTILITY METER
$	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER
J	JUNCTION BOX
	TRANSFORMER
PB	GROUND MOUNTED PULL BOX: SEE DETAILS FOR ADDITIONAL INFORMATION
HH	HANDHOLE
CP	CONTROL PANEL
SPD	SURGE PROTECTIVE DEVICE
	PANELBOARD
ATS	AUTOMATIC TRANSFER SWITCH
VFD	VARIABLE FREQUENCY DRIVE (BY DIVISION 23)
	PUSH BUTTON
	POWER POLE
	CORD REEL
	GROUND ROD
PT	POKE THROUGH SERVICE FITTING
FB	FLOOR BOX - REFER TO DETAIL
PS	POWER SUPPLY

GENERAL NOTE:

A. REFER TO SHEET T000 FOR TECHNOLOGY SYMBOLS USED ON ELECTRICAL PLANS.

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GENERAL INFORMATION - ELECTRICAL

STATE OF OHIO
3/29/22
GAVIN LIM
E-74...
PROFESSIONAL ENGINEER

APRIL 4, 2022

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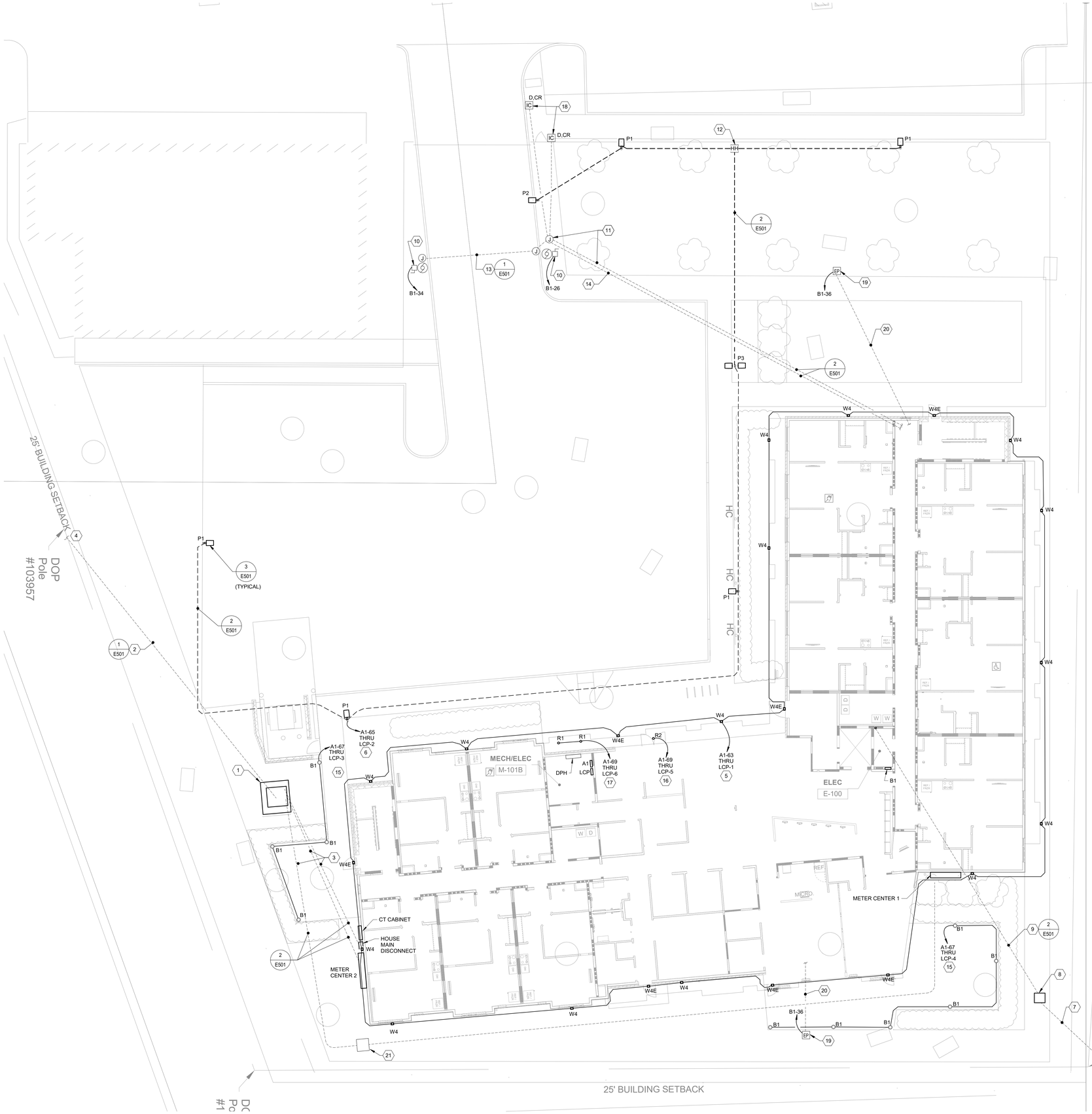

1 **SITE PLAN - ELECTRICAL**
1" = 10'-0"

GENERAL NOTES

A. UNDERGROUND ROUTING SHOWN IS SCHEMATIC. COORDINATE EXACT ROUTING WITH CIVIL PLANS. (NOT ALL SITE CONDUIT ROUTES (e.g. BRANCH CIRCUITING ARE SHOWN)).

B. COORDINATE WITH ALL UTILITY COMPANIES DURING THE BIDDING PHASE. THE ELECTRICAL SITE PLAN IS DIAGRAMMATIC ONLY AND REPRESENTS GENERAL LOCATIONS OF EQUIPMENT AND UTILITY SPECIFICATIONS. COORDINATE WITH THE SEPARATE UTILITY COMPANIES TO REQUEST DETAILED SPECIFICATIONS AND EQUIPMENT SIZES.

C. COORDINATE WITH UTILITY COMPANY TO EXTEND THE SERVICE CONDUCTORS FROM THE UTILITY EQUIPMENT TO THE METER CENTER.

D. PAD MOUNTED TRANSFORMER PROVIDED AND INSTALLED BY UTILITY COMPANY. PROVIDE A SERVICE PAD IN COMPLIANCE WITH THE POWER COMPANY SPECIFICATIONS.

E. THE ELECTRICAL SITE PLAN DOES NOT SHOW ALL THE EXISTING UTILITIES OR EXISTING UNDERGROUND EQUIPMENT. COORDINATE WITH ALL TRADES. EXISTING CONDITIONS. LOCATE ALL UNDERGROUND SERVICES AND CLEARLY INDICATE LOCATIONS PRIOR TO THE START OF EXCAVATING. ROUTE NEW UNDERGROUND ABOVE OR BELOW EXISTING UTILITIES AND EQUIPMENT AS ALLOWED PER N.E.C. REQUIREMENTS.

F. THE ELECTRICAL SITE PLAN DOES NOT SHOW ALL LANDSCAPING OR PLANTING ARRANGEMENTS. COORDINATE WITH SITE ARCHITECTURAL LANDSCAPING AND CIVIL DRAWINGS TO AVOID CONFLICTS WITH LANDSCAPING FEATURES AND PLANTING REQUIREMENTS.

G. UNLESS NOTED OTHERWISE, EXTERIOR LIGHTING SHALL BE PROGRAMMED TO DIM BY LEAST 30% DURING OVERNIGHT HOURS PER ASHRAE 90.1-2010, PART, 9.4.1.7(c). COORDINATE WITH OWNER FOR FINAL SCHEDULE PROGRAMMING.

H. PROVIDE $10,000 ALLOWANCE IN THE BID FOR AID TO CONSTRUCTION COST TO BE PAID TO THE CABLE AND TELEPHONE COMPANY (AT&T). PROVIDE PROOF OF PAYMENT FOR REIMBURSEMENT FROM THE ALLOWANCE.

I. PROVIDE CONCRETE ENCASED DUCT BANK FOR ALL CONDUITS LOCATED UNDER WALKWAYS AND DRIVEWAYS. CONCRETE ENCASEMENT SHALL EXTEND MINIMUM 24" BEYOND EDGE OF PAVING.

LCP - EXTERIOR LIGHTING CONTROL ZONE SCHEDULE

ZONE	BRANCH CIRCUIT	DESCRIPTION	CONTROL
1	A1-63	BUILDING EXTERIOR	SEE CODED NOTE 5
2	A1-65	SITE PARKING	SEE CODED NOTE 6
3	A1-67	BOLLARDS (WEST SEATING AREA)	SEE CODED NOTE 15
4	A1-67	BOLLARDS (SOUTH SEATING AREA)	SEE CODED NOTE 15
5	A1-69	MAIN ENTRY	SEE CODED NOTE 16
6	A1-69	SIGN/ART WALL	SEE CODED NOTE 17
7		SPARE	
8		SPARE	

CODED NOTES

1. NEW UTILITY COMPANY PROVIDED PRIMARY TRANSFORMER. PROVIDE NEW CONCRETE PAD PER UTILITY COMPANY GUIDELINES. PROVIDE SECONDARY CONNECTIONS PER UTILITY COMPANY REQUIREMENTS. COORDINATE EXACT LOCATION WITH UTILITY COMPANY PRIOR TO INSTALLATION.
2. PROVIDE (3) 5" CONCRETE ENCASED PVC RACEWAYS WITH PULL WIRE FROM NEW UTILITY COMPANY PAD MOUNTED TRANSFORMER TO UTILITY COMPANY PRIMARY POLE. COORDINATE WITH UTILITY COMPANY FOR INSTALLATION GUIDELINES AND REQUIREMENTS.
3. PROVIDE SECONDARY SERVICE CONDUCTORS IN CONDUIT TO SERVICE EQUIPMENT. REFER TO E701 FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF ALL CONDUITS WITH ALL OTHER TRADES PRIOR TO ROUGH-IN. CONDUITS UNDER WALKWAYS AND DRIVEWAYS SHALL BE A MINIMUM OF 36" DEEP AND CONCRETE ENCASED.
4. STUB UTILITY PRIMARY CONDUITS TO 10' ABOVE FINISHED GRADE AT UTILITY COMPANY PRIMARY POLE. COORDINATE EXACT REQUIREMENTS WITH UTILITY PROVIDER.
5. BUILDING MOUNTED AREA LIGHTING WIRED THROUGH LIGHTING CONTROL PANEL FOR ASTRONOMIC AND PHOTOCELL CONTROL. REFER TO GENERAL NOTE F FOR ADDITIONAL REQUIREMENTS.
6. PARKING AREA LIGHTING WIRED THROUGH LIGHTING CONTROL PANEL FOR ASTRONOMIC AND PHOTOCELL CONTROL. REFER TO GENERAL NOTE F FOR ADDITIONAL REQUIREMENTS.
7. PROVIDE 1 - 4" UNDERGROUND CONDUIT WITH PULLSTRING TO EXISTING TELECOMMUNICATIONS SERVICE POLE. PROVIDE ONE RISER CONDUIT UP THE POLE WITH WEATHERHEAD. STUB AND CAP THE OTHER TWO CONDUITS AS SPARE.
8. PROVIDE 24" X 36" COMMUNICATIONS UNDERGROUND PULLBOX FOR TELECOM UTILITY FIBER OPTIC SERVICE. SEE DETAILS 4 & 5, SHEET E501.
9. PROVIDE 3 - 4" CONDUIT WITH PULLSTRING ON DEMARCATION POINT IN BUILDING. COORDINATE EXACT LOCATION OF CONDUIT STUB UP WITH TELECOM UTILITY COMPANY.
10. PROVIDE CONNECTION TO VEHICULAR GATE OPERATOR (15A, 120V, 1PH). PROVIDE 30 AMP, 2-POLE, NON-FUSED SAFETY SWITCH IN A NEMA 3R ENCLOSURE. COORDINATE EXACT LOCATION WITH GATE MANUFACTURER'S INSTALLATION INSTRUCTIONS. MAKE FINAL CONNECTIONS FROM SAFETY SWITCH TO GATE OPERATOR PER MANUFACTURER'S REQUIREMENTS.
11. PROVIDE 1 - 1.5" UNDERGROUND CONDUIT FROM BUILDING IT SPACE (ELEC ROOM E-100) TO MOTORIZED GATE CONTROLLER AND COMBINATION INTERCOM/CARD READERS (REFER TO TECHNOLOGY DRAWINGS AND SPECIFICATION 28 13 53). PROVIDE COMBINATION INTERCOM/CARD READERS (ONE AT VEHICULAR GATE PEDESTAL AND ONE AT MAN GATE). CARD READERS SHALL CONTROL VEHICLE AND MAN GATES. PROVIDE LOW VOLTAGE CABLING PER MANUFACTURER'S RECOMMENDATIONS. MAKE FINAL CONNECTIONS. COORDINATE EXACT LOCATIONS WITH CIVIL PLANS.
12. PROVIDE MINIMUM 12" X 12" POLYMER CONCRETE HANDHOLE FOR SITE LIGHTING BRANCH CIRCUITING. PROVIDE FLUSH, REMOVABLE COVER STAMPED "ELECTRIC". CONFIRM EXACT HANDHOLE SIZE WITH NEC REQUIREMENTS PRIOR TO ORDERING.
13. PROVIDE 1-1" UNDERGROUND CONDUIT FOR POWER AND 1-1" UNDERGROUND CONDUIT FOR MOTORIZED GATE CONTROLS.
14. PROVIDE 1-1" UNDERGROUND CONDUIT FOR POWER TO GATE CONTROL.
15. SEATING AREA LIGHTING WIRED THROUGH LIGHTING CONTROL PANEL FOR ASTRONOMIC AND PHOTOCELL CONTROL. SEATING AREA LIGHTING SHALL BE PROGRAMMED TO TURN ON ONE HOUR BEFORE DUSK AND TURN OFF AT MIDNIGHT OR SCHEDULED CLOSING TIME PER ASHRAE 90.1-2010, PART 9.4.1.7. COORDINATE WITH OWNER FOR FINAL SCHEDULE PROGRAMMING.
16. ENTRY LIGHTING WIRED THROUGH LIGHTING CONTROL PANEL FOR ASTRONOMIC AND PHOTOCELL CONTROL. ENTRY LIGHTING SHALL BE PROGRAMMED TO BE ILLUMINATED DURING OVERNIGHT HOURS FOR SAFETY AND SECURITY. ENTRY LIGHTING SHALL AUTOMATICALLY ILLUMINATE UPON LOSS OF NORMAL POWER VIA INTEGRAL BATTERY BACKUP. COORDINATE WITH OWNER FOR FINAL SCHEDULE PROGRAMMING.
17. FACADE LIGHTING WIRED THROUGH LIGHTING CONTROL PANEL FOR ASTRONOMIC AND PHOTOCELL CONTROL. FACADE LIGHTING SHALL BE PROGRAMMED TO AUTOMATICALLY TURN OFF AT MIDNIGHT OR SCHEDULED CLOSING TIME AND TURN ON AT 6AM OR SCHEDULED OPENING TIME, PER ASHRAE 90.1-2010, PART 9.4.1.7. COORDINATE WITH OWNER FOR FINAL SCHEDULE PROGRAMMING.
18. PROVIDE 1" CONDUIT TO INTERCOM/CARD READER GOOSENECK.
19. PROVIDE EMERGENCY PHONE PEDESTAL (GAITRONICS 234-233-001-84504-301-540-001-397-003). PROVIDE 24" DIAMETER CONCRETE BASE (45" DEEP) WITH REBAR REINFORCEMENT. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR ADDITIONAL REQUIREMENTS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.
20. PROVIDE 120V CIRCUIT TO EMERGENCY PHONE AND A 1" UNDERGROUND CONDUIT FOR TELEPHONE CABLING.
21. PROVIDE 36" X 36" X 48" DEEP PULL BOX FOR ELECTRIC SECONDARY SERVICE CONDUCTORS, MINIMUM ANSI TIER 22. COORDINATE EXACT SIZE AND LOCATION OF PULL BOX WITH SECONDARY CONDUCTOR CONDUIT ROUTING, DUCT BANK CONFIGURATION AND OTHER UTILITIES.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMPANTION. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
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SUITE 300
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PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
SITE PLAN - ELECTRICAL

STATE OF OHIO 3/29/22 GAVIN LIM REGISTERED PROFESSIONAL ENGINEER

APRIL 4, 2022
DRAWN BY: **MC/NA** CHECKED BY: **NA/GL**
Proj. #20643
.ES101
PERMIT & BID SET

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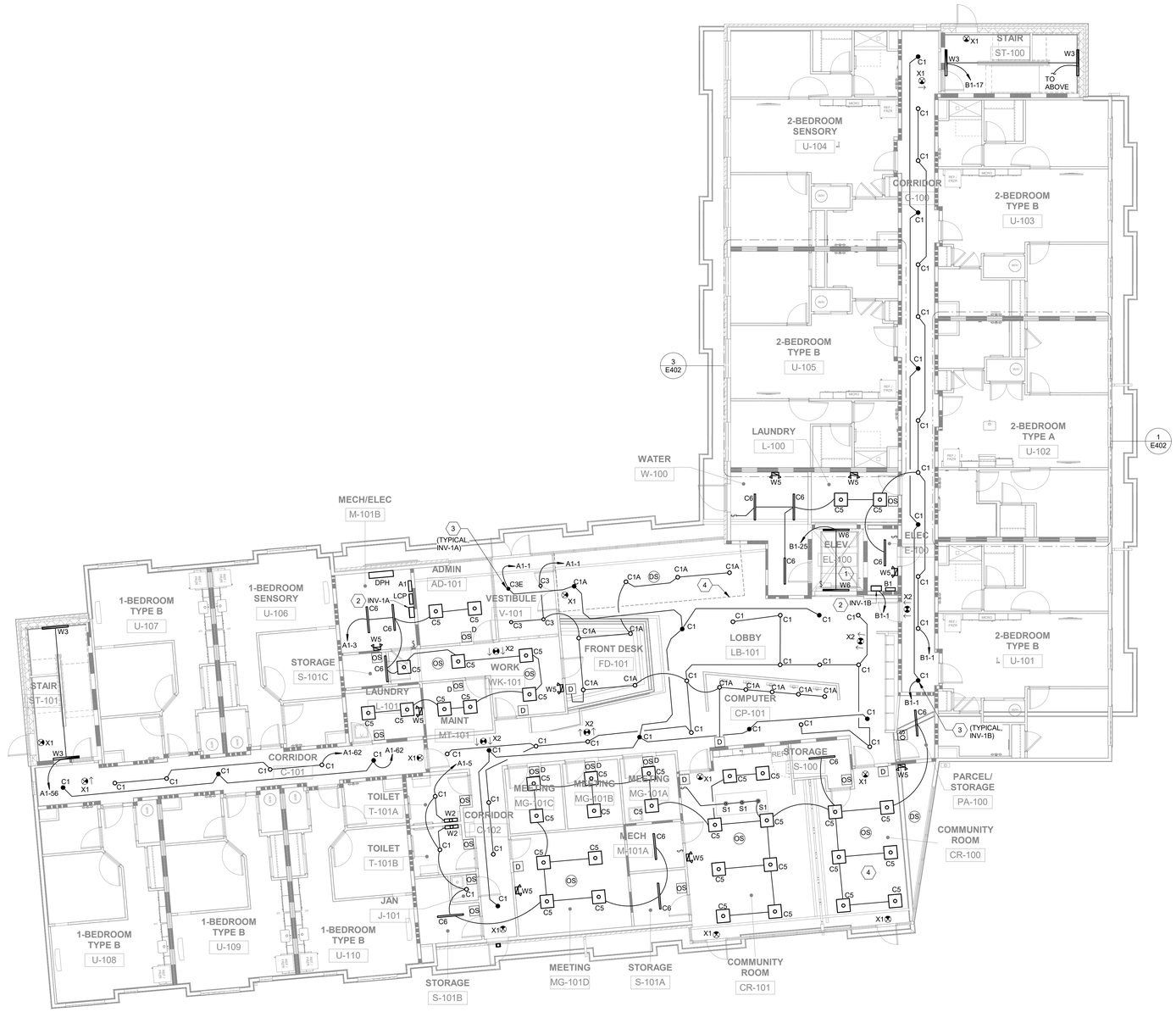

1 PLAN
LEVEL 01 CEILING PLAN - LIGHTING
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE MOUNTING HEIGHT AND FINAL LOCATIONS OF RECEPTACLES, DEVICES AND EQUIPMENT WITH ARCHITECTURAL AND HVAC DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN.

B. VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

C. ALL EMERGENCY EGRESS LIGHTING AND EXIT SIGNS SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING OR CONTROLS WITH A MINIMUM OF #12 AWG CONDUCTORS. BATTERY OPERATED UNITS SHALL MONITOR LOCAL LIGHTING CIRCUIT AND AUTOMATICALLY ILLUMINATE UPON LOSS OF UTILITY POWER.

D. OUTLET BOXES FOR SURFACE MOUNTED LIGHT FIXTURES SHALL BE STANDARD 4" OCTAGONAL UNLESS OTHERWISE REQUIRED BY THE LIGHTING FIXTURE MANUFACTURER. COORDINATE EXACT REQUIREMENTS WITH APPROVED LIGHTING FIXTURE SHOP DRAWINGS. OUTLET BOXES SHALL BE COMPLETELY CONCEALED BEHIND LIGHTING FIXTURES WHEN INSTALLED.

E. ALL CONDUIT RUNS AND WIRING, DEVICES AND ASSOCIATED ELECTRICAL WORK WHICH PENETRATES THRU FIRE RATED WALLS OR FIRE RATED ASSEMBLIES SHALL BE COMPLETELY FIRE SEALED AT EACH PENETRATION. PROVIDE FIRE RATED PUTTY PADS ON ALL JUNCTION BOXES LOCATED IN FIRE RATED WALLS.

F. WRAP ALL CIRCUIT WIRES TO DEVICES WITH MASKING TAPE PRIOR TO PAINTING. ALL DEVICES AND COVERPLATES SHALL BE INSTALLED AFTER PAINTING IS COMPLETE.

G. WRAP WIRING DEVICES WITH 2 LAYERS OF VINYL ELECTRICAL TAPE AFTER TERMINATIONS HAVE BEEN COMPLETED.

H. STRAIGHT LINES INDICATE LUMINAIRES CIRCUITED TO COMMON CONTROLS. ARCHED LINES INDICATE A COMMON BRANCH CIRCUIT, BUT SEPARATE CONTROLS.

I. UNLESS NOTED OTHERWISE, LIGHTING CONTROLS SHALL SERVE LUMINAIRES SHOWN IN THE SAME SPACE.

J. NO SHARED NEUTRALS - EACH CIRCUIT THAT REQUIRES A NEUTRAL CONDUCTOR SHALL HAVE A SEPARATE, DEDICATED NEUTRAL CONDUCTOR.

K. POWER PACKS AND AUXILIARY POWER PACKS SHALL BE LOCATED WITHIN EACH ROOM ABOVE CEILING ADJACENT TO THE ENTRY DOOR.

L. UNLESS NOTED OTHERWISE, SET OCCUPANY SENSORS FOR MANUAL ON/AUTO OFF (VACANCY MODE) OPERATION.

CODED NOTES

1. COORDINATE ELEVATOR PIT LIGHTING FIXTURE LOCATIONS TO PROVIDE ADEQUATE ILLUMINATION (MINIMUM 10fc) IN THE ELEVATOR PIT FLOOR PER ELEVATOR MANUFACTURER'S REQUIREMENTS. PIT LIGHTING FIXTURES SHALL BE CONTROLLED BY A LIGHT SWITCH LOCATED AT THE TOP OF THE PIT LADDER OR AS OTHERWISE DIRECTED PER THE ELEVATOR MANUFACTURER'S APPROVED SHOP DRAWINGS.
2. PROVIDE A SURFACE MOUNTED INVERTER WITH REMOTE TEST SWITCH SIMILAR TO MYERS ILLUMINATOR LV SERIES FOR CORRIDOR EGRESS LIGHTING. INVERTER SHALL BE WALL MOUNTED AND LOCATED IN THE LOCAL ELECTRICAL ROOM. INVERTER SHALL BE UL 924 LISTED INCLUDE SELF-TESTING & SELF-DIAGNOSTICS. INVERTER CAPACITY SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS TO ACHIEVE 90 MINUTE RUN TIME AT 125% OF THE TOTAL CONNECTED EM LOAD ON THE CIRCUIT. SHADED CORRIDOR LIGHTING SHALL BE CIRCUITED THROUGH THE INVERTER TO AUTOMATICALLY ILLUMINATE UPON LOSS OF NORMAL POWER.
3. CIRCUIT SHADED CORRIDOR FIXTURES THROUGH EM LIGHTING INVERTER. SEE CODED NOTE 2 ABOVE FOR ADDITIONAL INFORMATION.
4. PROVIDE AUTOMATIC DAYLIGHTING CONTROLS (CONTINUOUS DIMMING CONTROL) FOR FIXTURES WITHIN THE PRIMARY SIDELIGHTED AREA PER ASHRAE 90.1-2010, PART 9.4.1.4.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1981 W. BROAD STREET
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DRAWING TITLE:
LEVEL 01 - FLOOR PLAN - OVERALL - LIGHTING

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STATE OF OHIO
3/29/22
GAVIN UM
PROFESSIONAL ENGINEER

APRIL 4, 2022
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1 PLAN LEVEL 02 CEILING PLAN - LIGHTING
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE MOUNTING HEIGHT AND FINAL LOCATIONS OF RECEPTACLES, DEVICES AND EQUIPMENT WITH ARCHITECTURAL AND HVAC DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN.

B. VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

C. ALL EMERGENCY EGRESS LIGHTING AND EXIT SIGNS SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING OR CONTROLS WITH A MINIMUM OF #12 AWG CONDUCTORS. BATTERY OPERATED UNITS SHALL MONITOR LOCAL LIGHTING CIRCUIT AND AUTOMATICALLY ILLUMINATE UPON LOSS OF UTILITY POWER.

D. OUTLET BOXES FOR SURFACE MOUNTED LIGHT FIXTURES SHALL BE STANDARD 4" OCTAGONAL UNLESS OTHERWISE REQUIRED BY THE LIGHTING FIXTURE MANUFACTURER. COORDINATE EXACT REQUIREMENTS WITH APPROVED LIGHTING FIXTURE SHOP DRAWINGS. OUTLET BOXES SHALL BE COMPLETELY CONCEALED BEHIND LIGHTING FIXTURES WHEN INSTALLED.

E. ALL CONDUIT RUNS AND WIRING, DEVICES AND ASSOCIATED ELECTRICAL WORK WHICH PENETRATES THRU FIRE RATED WALLS OR FIRE RATED ASSEMBLIES SHALL BE COMPLETELY FIRE SEALED AT EACH PENETRATION. PROVIDE FIRE RATED PUTTY PADS ON ALL JUNCTION BOXES LOCATED IN FIRE RATED WALLS.

F. WRAP ALL CIRCUIT WIRES TO DEVICES WITH MASKING TAPE PRIOR TO PAINTING. ALL DEVICES AND COVERPLATES SHALL BE INSTALLED AFTER PAINTING IS COMPLETE.

G. WRAP WIRING DEVICES WITH 2 LAYERS OF VINYL ELECTRICAL TAPE AFTER TERMINATIONS HAVE BEEN COMPLETED.

H. STRAIGHT LINES INDICATE LUMINAIRES CIRCUITED TO COMMON CONTROLS. ARCHED LINES INDICATE A COMMON BRANCH CIRCUIT, BUT SEPARATE CONTROLS.

I. UNLESS NOTED OTHERWISE, LIGHTING CONTROLS SHALL SERVE LUMINAIRES SHOWN IN THE SAME SPACE.

J. NO SHARED NEUTRALS - EACH CIRCUIT THAT REQUIRES A NEUTRAL CONDUCTOR SHALL HAVE A SEPARATE, DEDICATED NEUTRAL CONDUCTOR.

K. POWER PACKS AND AUXILIARY POWER PACKS SHALL BE LOCATED WITHIN EACH ROOM ABOVE CEILING ADJACENT TO THE ENTRY DOOR.

L. UNLESS NOTED OTHERWISE, SET OCCUPANY SENSORS FOR MANUAL ON/AUTO OFF (VACANCY MODE) OPERATION.

CODED NOTES

1. CIRCUIT SHADED CORRIDOR FIXTURES THROUGH EM LIGHTING INVERTER. SEE CODED NOTE 2 BELOW FOR ADDITIONAL INFORMATION.

2. PROVIDE A SURFACE MOUNTED INVERTER WITH REMOTE TEST SWITCH SIMILAR TO MYERS ILLUMINATOR LV SERIES FOR CORRIDOR EGRESS LIGHTING. INVERTER SHALL BE WALL MOUNTED AND LOCATED IN THE LOCAL ELECTRICAL ROOM. INVERTER SHALL BE UL 924 LISTED INCLUDE SELF-TESTING & SELF-DIAGNOSTICS. INVERTER CAPACITY SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS TO ACHIEVE 90 MINUTE RUN TIME AT 125% OF THE TOTAL CONNECTED EM LOAD ON THE CIRCUIT. SHADED CORRIDOR LIGHTING SHALL BE CIRCUITED THROUGH THE INVERTER TO AUTOMATICALLY ILLUMINATE UPON LOSS OF NORMAL POWER.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR:
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DRAWING TITLE:
LEVEL 02 - FLOOR PLAN - OVERALL - LIGHTING

APRIL 4, 2022

DRAWN BY: **MC/NA** | CHECKED BY: **NA/GL**

Proj. #20643

E102

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STATE OF OHIO 3/29/22 GAVIN LIM PROFESSIONAL ENGINEER

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1 **PLAN** LEVEL 03 CEILING PLAN - LIGHTING
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE MOUNTING HEIGHT AND FINAL LOCATIONS OF RECEPTACLES, DEVICES AND EQUIPMENT WITH ARCHITECTURAL AND HVAC DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN.

B. VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

C. ALL EMERGENCY EGRESS LIGHTING AND EXIT SIGNS SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING OR CONTROLS WITH A MINIMUM OF #12 AWG CONDUCTORS. BATTERY OPERATED UNITS SHALL MONITOR LOCAL LIGHTING CIRCUIT AND AUTOMATICALLY ILLUMINATE UPON LOSS OF UTILITY POWER.

D. OUTLET BOXES FOR SURFACE MOUNTED LIGHT FIXTURES SHALL BE STANDARD 4" OCTAGONAL UNLESS OTHERWISE REQUIRED BY THE LIGHTING FIXTURE MANUFACTURER. COORDINATE EXACT REQUIREMENTS WITH APPROVED LIGHTING FIXTURE SHOP DRAWINGS. OUTLET BOXES SHALL BE COMPLETELY CONCEALED BEHIND LIGHTING FIXTURES WHEN INSTALLED.

E. ALL CONDUIT RUNS AND WIRING, DEVICES AND ASSOCIATED ELECTRICAL WORK WHICH PENETRATES THRU FIRE RATED WALLS OR FIRE RATED ASSEMBLIES SHALL BE COMPLETELY FIRE SEALED AT EACH PENETRATION. PROVIDE FIRE RATED PUTTY PADS ON ALL JUNCTION BOXES LOCATED IN FIRE RATED WALLS.

F. WRAP ALL CIRCUIT WIRES TO DEVICES WITH MASKING TAPE PRIOR TO PAINTING. ALL DEVICES AND COVERPLATES SHALL BE INSTALLED AFTER PAINTING IS COMPLETE.

G. WRAP WIRING DEVICES WITH 2 LAYERS OF VINYL ELECTRICAL TAPE AFTER TERMINATIONS HAVE BEEN COMPLETED.

H. STRAIGHT LINES INDICATE LUMINAIRES CIRCUITED TO COMMON CONTROLS. ARCHED LINES INDICATE A COMMON BRANCH CIRCUIT, BUT SEPARATE CONTROLS.

I. UNLESS NOTED OTHERWISE, LIGHTING CONTROLS SHALL SERVE LUMINAIRES SHOWN IN THE SAME SPACE.

J. NO SHARED NEUTRALS - EACH CIRCUIT THAT REQUIRES A NEUTRAL CONDUCTOR SHALL HAVE A SEPARATE, DEDICATED NEUTRAL CONDUCTOR.

K. POWER PACKS AND AUXILIARY POWER PACKS SHALL BE LOCATED WITHIN EACH ROOM ABOVE CEILING ADJACENT TO THE ENTRY DOOR.

L. UNLESS NOTED OTHERWISE, SET OCCUPANY SENSORS FOR MANUAL ON/AUTO OFF (VACANCY MODE) OPERATION.

CODED NOTES

1. COORDINATE HOISTWAY LIGHTING FIXTURE LOCATIONS TO PROVIDE ADEQUATE ILLUMINATION AT THE ELEVATOR CONTROLLER PER THE ELEVATOR MANUFACTURER'S REQUIREMENTS. HOISTWAY LIGHTING FIXTURES SHALL BE CONTROLLED BY A LIGHT SWITCH LOCATED AT THE TOP LANDING OR AS OTHERWISE DIRECTED PER THE ELEVATOR MANUFACTURER'S APPROVED SHOP DRAWINGS.
2. PROVIDE A SURFACE MOUNTED INVERTER WITH REMOTE TEST SWITCH SIMILAR TO MYERS ILLUMINATOR LV SERIES FOR CORRIDOR EGRESS LIGHTING. INVERTER SHALL BE WALL MOUNTED AND LOCATED IN THE LOCAL ELECTRICAL ROOM. INVERTER SHALL BE UL 924 LISTED INCLUDE SELF-TESTING & SELF-DIAGNOSTICS. INVERTER CAPACITY SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS TO ACHIEVE 90 MINUTE RUN TIME AT 125% OF THE TOTAL CONNECTED EM LOAD ON THE CIRCUIT. SHADED CORRIDOR LIGHTING SHALL BE CIRCUITED THROUGH THE INVERTER TO AUTOMATICALLY ILLUMINATE UPON LOSS OF NORMAL POWER.
3. CIRCUIT SHADED CORRIDOR FIXTURES THROUGH EM LIGHTING INVERTER. SEE CODED NOTE 2 ABOVE FOR ADDITIONAL INFORMATION.

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

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DRAWING TITLE:
LEVEL 03 - FLOOR PLAN - OVERALL - LIGHTING

STATE OF OHIO 3/29/22 GAVIN LIM REGISTERED PROFESSIONAL ENGINEER

APRIL 4, 2022

DRAWN BY: **MC/NA** CHECKED BY: **NA/GL**

Proj. #20643

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GENERAL NOTES

A. COORDINATE MOUNTING HEIGHT AND FINAL LOCATIONS OF RECEPTACLES, DEVICES AND EQUIPMENT WITH ARCHITECTURAL DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN.

B. COORDINATE ALL DEVICE LOCATIONS WITH FRAMING MEMBERS PRIOR TO ROUGH-IN.

C. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND/OR CABINET BACK PANEL.

D. ALL 120-VOLT, 15 OR 20 AMP RECEPTACLE SHALL BE TAMPER-RESISTANT TYPE.

E. ALL 120-VOLT, SINGLE PHASE, 15 & 20 AMP BRANCH CIRCUITS SUPPLYING OUTLET IN CORRIDORS, LAUNDRY AREAS AND SIMILAR ROOMS SHALL BE AFCI PROTECTED AT THE CIRCUIT BREAKER.

F. ALL RECEPTACLE LOCATED WITHIN 6'-0" OF THE OUTSIDE EDGE OF A SINK, OR IN INDOOR WET LOCATIONS, SHALL BE GFCI PROTECTED PER NEC 210.8. RECEPTACLES INSTALLED IN ACCESSIBLE LOCATIONS SHALL BE GFCI TYPE. RECEPTACLES INSTALLED BEHIND EQUIPMENT OR OTHERWISE INACCESSIBLE LOCATIONS SHALL BE GFCI PROTECTED AT THE CIRCUIT BREAKER.

G. ALL CONDUIT RUNS AND WIRING, DEVICES AND ASSOCIATED ELECTRICAL WORK WHICH PENETRATES THRU FIRE RATED WALLS OR FIRE RATED ASSEMBLIES SHALL BE COMPLETELY FIRE SEALED AT EACH PENETRATION. PROVIDE FIRE RATED PUTTY PADS ON ALL JUNCTION BOXES LOCATED IN FIRE RATED WALLS.

H. WRAP ALL CIRCUITS WIRES TO DEVICES WITHIN MASKING TAPE PRIOR TO PAINTING. ALL DEVICES AND COVERPLATES SHALL BE INSTALLED AFTER PAINTING IS COMPLETE.

I. WRAP WIRING DEVICES WITH 2 LAYERS OF VINYL ELECTRICAL TAPE AFTER TERMINATIONS HAVE BEEN COMPLETED.

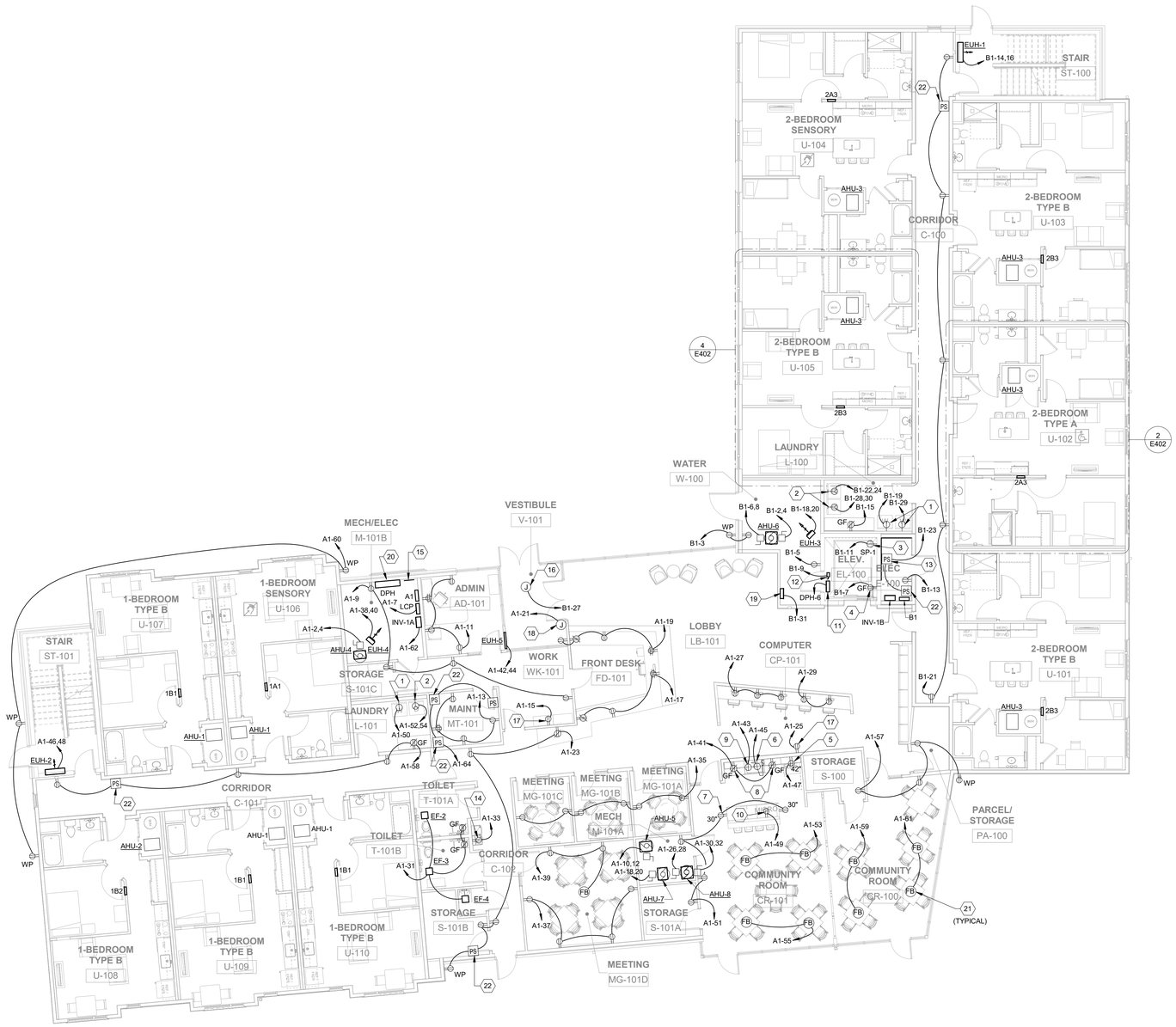
J. ROUGH-IN FOR TELEVISION AND COMMUNICATIONS OUTLETS SHALL BE A 4" SQUARE BACK BOX WITH SINGLE GANG REDUCER AND A 1" CONDUIT TO TURN OUT ABOVE ACCESSIBLE CEILING. PROVIDE PROTECTIVE BUSHINGS.

K. ALL LOW VOLTAGE WIRING INCLUDING, BUT NOT NECESSARILY LIMITED TO, CABLE TV, TELEPHONE, SECURITY AND FIRE ALARM WIRING, SHALL BE INSTALLED PRIOR TO DRYWALL COVERUP.

L. ELECTRICAL DEVICES AND WIRING RUN IN EXPOSED STRUCTURE SHALL USE METAL BOXES AND THIN WALL EMT CONDUIT. CONDUITS SHALL BE RUN TIGHT TO SURFACE AND PERPENDICULAR OR PARALLEL TO BUILDING ELEMENTS. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR LOCATIONS.

M. NO SHARED NEUTRALS - EACH CIRCUIT THAT REQUIRES A NEUTRAL CONDUCTOR SHALL HAVE A SEPARATE, DEDICATED NEUTRAL CONDUCTOR.

N. REFER TO SHEET E602 FOR EQUIPMENT STARTER/DISCONNECT SCHEDULE.



1 PLAN LEVEL 01 FLOOR PLAN - POWER
1/8" = 1'-0"

CODED NOTES

1. PROVIDE A 120 VOLT, 20 AMP SIMPLEX RECEPTACLE FOR A CLOTHES WASHER. FIELD COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
2. PROVIDE A 120/240V, 30 AMP RECEPTACLE FOR A DRYER. ASSUME A NEMA 14-30 CONFIGURATION FOR BIDDING PURPOSES. VERIFY EXACT CONFIGURATION WITH EQUIPMENT SUPPLIER PRIOR TO ORDERING. FIELD COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
3. PROVIDE A 20 AMP SIMPLEX RECEPTACLE AND DEDICATED 120 VOLT CIRCUIT IN THE ELEVATOR PIT FOR THE SUMP PUMP. COORDINATE EXACT LOCATION WITH THE EQUIPMENT SUPPLIER AND ELEVATOR MANUFACTURER'S LAYOUT REQUIREMENTS PRIOR TO ROUGH-IN.
4. PROVIDE A 20 AMP, GFCI DUPLEX RECEPTACLE AND DEDICATED 120 VOLT CIRCUIT IN THE ELEVATOR PIT WITH THE EQUIPMENT SUPPLIER AND ELEVATOR MANUFACTURER'S LAYOUT REQUIREMENTS PRIOR TO ROUGH-IN.
5. PROVIDE A 120 VOLT, 20 AMP DUPLEX RECEPTACLE FOR A REFRIGERATOR. CIRCUIT TO GF BREAKER AND LABEL "GFCI PROTECTED" ON RECEPTACLE.
6. PROVIDE A 120 VOLT, 20 AMP SIMPLEX RECEPTACLE MOUNTED IN BASE CABINETRY FOR A GARBAGE DISPOSAL. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN. FIELD COORDINATE LOCATION OF CONTROL SWITCH TO BE MOUNTED ABOVE COUNTER ADJACENT TO SINK OR WITHIN BASE CABINETRY AS REQUIRED.
7. KITCHEN ISLAND RECEPTACLE. RECEPTACLE SHALL NOT BE LOCATED WHERE THE COUNTERTOP EXTENDS MORE THAN 6" BEYOND THE SUPPORT BASE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH CASEWORK PROVIDER PRIOR TO ROUGH-IN.
8. COUNTERTOP RECEPTACLE SHALL BE MOUNTED HORIZONTALLY WITHIN 6" BACKSPLASH. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH CASEWORK PROVIDER PRIOR TO ROUGH-IN.
9. PROVIDE A 120 VOLT, 20 AMP SIMPLEX RECEPTACLE MOUNTED FLUSH IN BASE CABINETRY FOR AN UNDERCOUNTER DISHWASHER. DISHWASHER RECEPTACLE SHALL BE LOCATED IN THE SPACE ADJACENT TO THE SPACE OCCUPIED BY THE DISHWASHER. FIELD COORDINATE EXACT LOCATION WITH ARCHITECT AND CASEWORK PROVIDER PRIOR TO ROUGH-IN.
10. PROVIDE A 120 VOLT, 20 AMP DUPLEX RECEPTACLE FOR AN UNDERCOUNTER MICROWAVE. CIRCUIT TO GF BREAKER AND LABEL "GFCI PROTECTED" ON RECEPTACLE.
11. PROVIDE FINAL CONNECTIONS FROM ELEVATOR SAFETY SWITCH TO ELEVATOR MACHINE PER THE ELEVATOR MANUFACTURER'S REQUIREMENTS. REER TO THE ONE-LINE DIAGRAM, SHEET E701, FOR ADDITIONAL INFORMATION.
12. PROVIDE A DEDICATED 15 AMP, 120 VOLT CIRCUIT WITH GFCI PROTECTION FOR ELEVATOR CAR LIGHTING AND ALARM CONTROLS. COORDINATE WITH ELEVATOR MANUFACTURER'S REQUIREMENTS PRIOR TO ROUGH-IN.
13. PROVIDE POWER CONNECTION TO ACCESS CONTROL POWER SUPPLY (120V, 1PH). FIELD COORDINATION EXACT LOCATION OF CONTROL PANEL PRIOR TO ROUGH-IN. REFER TO DETAIL 3/T501 FOR ADDITIONAL INFORMATION.
14. PROVIDE RECEPTACLE FOR WATER COOLER. CIRCUIT TO GF BREAKER AND LABEL "GFCI PROTECTED" ON RECEPTACLE.
15. PROVIDE MAIN GROUND BUSBAR. REFER TO DETAIL 7/E501.
16. PROVIDE POWER CONNECTION TO AUTOMATIC DOOR OPERATOR. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT, EQUIPMENT SUPPLIER AND APPROVED SHOP DRAWINGS.
17. PROVIDE RECEPTACLE FOR PRINTER.
18. PROVIDE DEDICATED 120 VOLT, 20 AMP CIRCUIT FOR TWO-WAY COMMUNICATION MASTER STATION.
19. PROVIDE DEDICATED 120 VOLT, 20 AMP CIRCUIT FOR TWO-WAY COMMUNICATION REMOTE POWER SUPPLY.
20. REFER TO SHEET E701 FOR ADDITIONAL INFORMATION.
21. PROVIDE 2-GANG RECESSED FLOORBOX SUITABLE FOR USE IN CONCRETE FLOORS. FLOOR BOX SHALL INCLUDE TWO 20 AMP, 120 VOLT DUPLEX RECEPTACLES. PROVIDE ROUND FLUSH SURFACE COVER WITH 180 DEGREE OPENING AND CABLE EGRESS DOORS. COORDINATE COVER FINISH WITH ARCHITECT AND OWNER DURING SHOP DRAWING SUBMITTAL PROCESS. PROVIDE ALL INTERNAL COMPONENTS, DEVICE PLATES, AND APPURTENANCES REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE 1" CONDUIT TO ADJACENT FLOOR BOXES SHOWN ON THE SAME CIRCUIT AND TO STUB UP IN NEAREST FULL HEIGHT STUD WALL. COORDINATE UNDERSLAB CONDUIT AND STUB UP LOCATIONS IN FIELD PRIOR TO CONCRETE POUR. TYPICAL.
22. PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY (120V, 1PH). COORDINATE EXACT REQUIREMENTS WITH ARCHITECT, EQUIPMENT SUPPLIER AND APPROVED SHOP DRAWINGS. REFER TO T-101 SHEET FOR ADDITIONAL INFORMATION.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1981 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
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DRAWING TITLE:
LEVEL 01 - FLOOR PLAN - OVERALL - POWER

ADVANCED ENGINEERING CONSULTANTS
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1405 Dublin Road
Columbus, Ohio 43215
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STATE OF OHIO
3/29/22
GAVIN LIM
PROFESSIONAL ENGINEER

APRIL 4, 2022
DRAWN BY: MC/NA | CHECKED BY: NA/GL
Proj. #20643

E201

PERMIT & BID SET

PRINT DATE: 3/31/2022 10:45:10 AM
FILE INFO: C:\Users\monique\Documents\20643 Harriets Hope PSH_MEP -r21- Monique.Caldwell.rvt

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1 PLAN LEVEL 02 FLOOR PLAN - POWER
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE MOUNTING HEIGHT AND FINAL LOCATIONS OF RECEPTACLES, DEVICES AND EQUIPMENT WITH ARCHITECTURAL DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN.

B. COORDINATE ALL DEVICE LOCATIONS WITH FRAMING MEMBERS PRIOR TO ROUGH-IN.

C. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND/OR CABINET BACK PANEL.

D. ALL 120-VOLT, 15 OR 20 AMP RECEPTACLE SHALL BE TAMPER-RESISTANT TYPE.

E. ALL 120-VOLT, SINGLE PHASE, 15 & 20 AMP BRANCH CIRCUITS SUPPLYING OUTLET IN CORRIDORS, LAUNDRY AREAS AND SIMILAR ROOMS SHALL BE AFCI PROTECTED AT THE CIRCUIT BREAKER.

F. ALL RECEPTACLE LOCATED WITHIN 6'-0" OF THE OUTSIDE EDGE OF A SINK, OR IN INDOOR WET LOCATIONS, SHALL BE GFCI PROTECTED PER NEC 210.8. RECEPTACLES INSTALLED IN ACCESSIBLE LOCATIONS SHALL BE GFCI TYPE. RECEPTACLES INSTALLED BEHIND EQUIPMENT OR OTHERWISE INACCESSIBLE LOCATIONS SHALL BE GFCI PROTECTED AT THE CIRCUIT BREAKER.

G. ALL CONDUIT RUNS AND WIRING, DEVICES AND ASSOCIATED ELECTRICAL WORK WHICH PENETRATES THRU FIRE RATED WALLS OR FIRE RATED ASSEMBLIES SHALL BE COMPLETELY FIRE SEALED AT EACH PENETRATION. PROVIDE FIRE RATED PUTTY PADS ON ALL JUNCTION BOXES LOCATED IN FIRE RATED WALLS.

H. WRAP ALL CIRCUITS WIRES TO DEVICES WITHIN MASKING TAPE PRIOR TO PAINTING. ALL DEVICES AND COVERPLATES SHALL BE INSTALLED AFTER PAINTING IS COMPLETE.

I. WRAP WIRING DEVICES WITH 2 LAYERS OF VINYL ELECTRICAL TAPE AFTER TERMINATIONS HAVE BEEN COMPLETED.

J. ROUGH-IN FOR TELEVISION AND COMMUNICATIONS OUTLETS SHALL BE A 4" SQUARE BACK BOX WITH SINGLE GANG REDUCER AND A 1" CONDUIT TO TURN OUT ABOVE ACCESSIBLE CEILING. PROVIDE PROTECTIVE BUSHINGS.

K. ALL LOW VOLTAGE WIRING INCLUDING, BUT NOT NECESSARILY LIMITED TO, CABLE TV, TELEPHONE, SECURITY AND FIRE ALARM WIRING, SHALL BE INSTALLED PRIOR TO DRYWALL COVERUP.

L. ELECTRICAL DEVICES AND WIRING RUN IN EXPOSED STRUCTURE SHALL USE METAL BOXES AND THIN WALL EMT CONDUIT. CONDUITS SHALL BE RUN TIGHT TO SURFACE AND PERPENDICULAR OR PARALLEL TO BUILDING ELEMENTS. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR LOCATIONS.

M. NO SHARED NEUTRALS - EACH CIRCUIT THAT REQUIRES A NEUTRAL CONDUCTOR SHALL HAVE A SEPARATE, DEDICATED NEUTRAL CONDUCTOR.

N. REFER TO SHEET E602 FOR EQUIPMENT STARTER/DISCONNECT SCHEDULE.

CODED NOTES

1. PROVIDE A 120 VOLT, 20 AMP SIMPLEX RECEPTACLE FOR A CLOTHES WASHER. FIELD COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
2. PROVIDE A 120/240V, 30 AMP RECEPTACLE FOR A DRYER. ASSUME A NEMA 14-30 CONFIGURATION FOR BIDDING PURPOSES. VERIFY EXACT CONFIGURATION WITH EQUIPMENT SUPPLIER PRIOR TO ORDERING. FIELD COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
3. PROVIDE POWER CONNECTION TO ACCESS CONTROL POWER SUPPLY (120V, 1PH). FIELD COORDINATEION EXACT LOCATION OF CONTROL PANEL PRIOR TO ROUGH-IN. REFER TO DETAIL 3/T501 FOR ADDITIONAL INFORMATION.
4. PROVIDE DEDICATED 120 VOLT, 20 AMP CIRCUIT FOR TWO-WAY COMMUNICATION REMOTE POWER SUPPLY.
5. PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY (120V, 1PH). COORDINATE EXACT REQUIREMENTS WITH ARCHITECT, EQUIPMENT SUPPLIER AND APPROVED SHOP DRAWINGS. REFER TO T-102 SHEET FOR ADDITIONAL INFORMATION.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

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DRAWING TITLE:
LEVEL 02 - FLOOR PLAN - OVERALL - POWER

APRIL 4, 2022
DRAWN BY: **MC/NA** CHECKED BY: **NA/GL**
Proj. #20643

E202

PERMIT & BID SET

STATE OF OHIO · GAVIN LIM · 3/29/22 · PROFESSIONAL ENGINEER

ADVANCED ENGINEERING CONSULTANTS
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PRINT DATE: 3/31/2022 10:45:15 AM
FILE INFO: C:\Users\monique\Documents\20643 Hamlet Hope PSH_MEP-r21_Monique.Caldwell.rvt

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1 PLAN LEVEL 03 FLOOR PLAN - POWER

1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE MOUNTING HEIGHT AND FINAL LOCATIONS OF RECEPTACLES, DEVICES AND EQUIPMENT WITH ARCHITECTURAL DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN.

B. COORDINATE ALL DEVICE LOCATIONS WITH FRAMING MEMBERS PRIOR TO ROUGH-IN.

C. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND/OR CABINET BACK PANEL.

D. ALL 120-VOLT, 15 OR 20 AMP RECEPTACLE SHALL BE TAMPER-RESISTANT TYPE.

E. ALL 120-VOLT, SINGLE PHASE, 15 & 20 AMP BRANCH CIRCUITS SUPPLYING OUTLET IN CORRIDORS, LAUNDRY AREAS AND SIMILAR ROOMS SHALL BE AFCI PROTECTED AT THE CIRCUIT BREAKER.

F. ALL RECEPTACLE LOCATED WITHIN 6'-0" OF THE OUTSIDE EDGE OF A SINK, OR IN INDOOR WET LOCATIONS, SHALL BE GFCI PROTECTED PER NEC 210.8. RECEPTACLES INSTALLED IN ACCESSIBLE LOCATIONS SHALL BE GFCI TYPE. RECEPTACLES INSTALLED BEHIND EQUIPMENT OR OTHERWISE INACCESSIBLE LOCATIONS SHALL BE GFCI PROTECTED AT THE CIRCUIT BREAKER.

G. ALL CONDUIT RUNS AND WIRING, DEVICES AND ASSOCIATED ELECTRICAL WORK WHICH PENETRATES THRU FIRE RATED WALLS OR FIRE RATED ASSEMBLIES SHALL BE COMPLETELY FIRE SEALED AT EACH PENETRATION. PROVIDE FIRE RATED PUTTY PADS ON ALL JUNCTION BOXES LOCATED IN FIRE RATED WALLS.

H. WRAP ALL CIRCUITS WIRES TO DEVICES WITHIN MASKING TAPE PRIOR TO PAINTING. ALL DEVICES AND COVERPLATES SHALL BE INSTALLED AFTER PAINTING IS COMPLETE.

I. WRAP WIRING DEVICES WITH 2 LAYERS OF VINYL ELECTRICAL TAPE AFTER TERMINATIONS HAVE BEEN COMPLETED.

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K. ALL LOW VOLTAGE WIRING INCLUDING, BUT NOT NECESSARILY LIMITED TO, CABLE TV, TELEPHONE, SECURITY AND FIRE ALARM WIRING, SHALL BE INSTALLED PRIOR TO DRYWALL COVERUP.

L. ELECTRICAL DEVICES AND WIRING RUN IN EXPOSED STRUCTURE SHALL USE METAL BOXES AND THIN WALL EMT CONDUIT. CONDUITS SHALL BE RUN TIGHT TO SURFACE AND PERPENDICULAR OR PARALLEL TO BUILDING ELEMENTS. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR LOCATIONS.

M. NO SHARED NEUTRALS - EACH CIRCUIT THAT REQUIRES A NEUTRAL CONDUCTOR SHALL HAVE A SEPARATE, DEDICATED NEUTRAL CONDUCTOR.

N. REFER TO SHEET E602 FOR EQUIPMENT STARTER/DISCONNECT SCHEDULE.

CODED NOTES

1. PROVIDE A 120 VOLT, 20 AMP SIMPLEX RECEPTACLE FOR A CLOTHES WASHER. FIELD COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
2. PROVIDE A 120/240V, 30 AMP RECEPTACLE FOR A DRYER. ASSUME A NEMA 14-30 CONFIGURATION FOR BIDDING PURPOSES. VERIFY EXACT CONFIGURATION WITH EQUIPMENT SUPPLIER PRIOR TO ORDERING. FIELD COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
3. PROVIDE GFCI DUPLEX RECEPTACLE AND DEDICATED 120 VOLT CIRCUIT AT THE TOP LANDING OF THE ELEVATOR.
4. PROVIDE POWER CONNECTION TO ACCESS CONTROL POWER SUPPLY (120V, 1PH). FIELD COORDINATION EXACT LOCATION OF CONTROL PANEL PRIOR TO ROUGH-IN. REFER TO DETAIL 3/T501 FOR ADDITIONAL INFORMATION.
5. PROVIDE DEDICATED 120 VOLT, 20 AMP CIRCUIT FOR TWO-WAY COMMUNICATION REMOTE POWER SUPPLY.
6. PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY (120V, 1PH). COORDINATE EXACT REQUIREMENTS WITH ARCHITECT, EQUIPMENT SUPPLIER AND APPROVED SHOP DRAWINGS. REFER TO T-103 SHEET FOR ADDITIONAL INFORMATION.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

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COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
LEVEL 03 - FLOOR PLAN - OVERALL - POWER

STATE OF OHIO 3/29/22 GAVIN LIM E-68... PROFESSIONAL ENGINEER

APRIL 4, 2022

DRAWN BY: **MC/NA** | CHECKED BY: **NA/GL**

Proj. #20643

E203

PERMIT & BID SET

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Columbus, Ohio 43215
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PRINT DATE: 3/31/2022 10:45:20 AM
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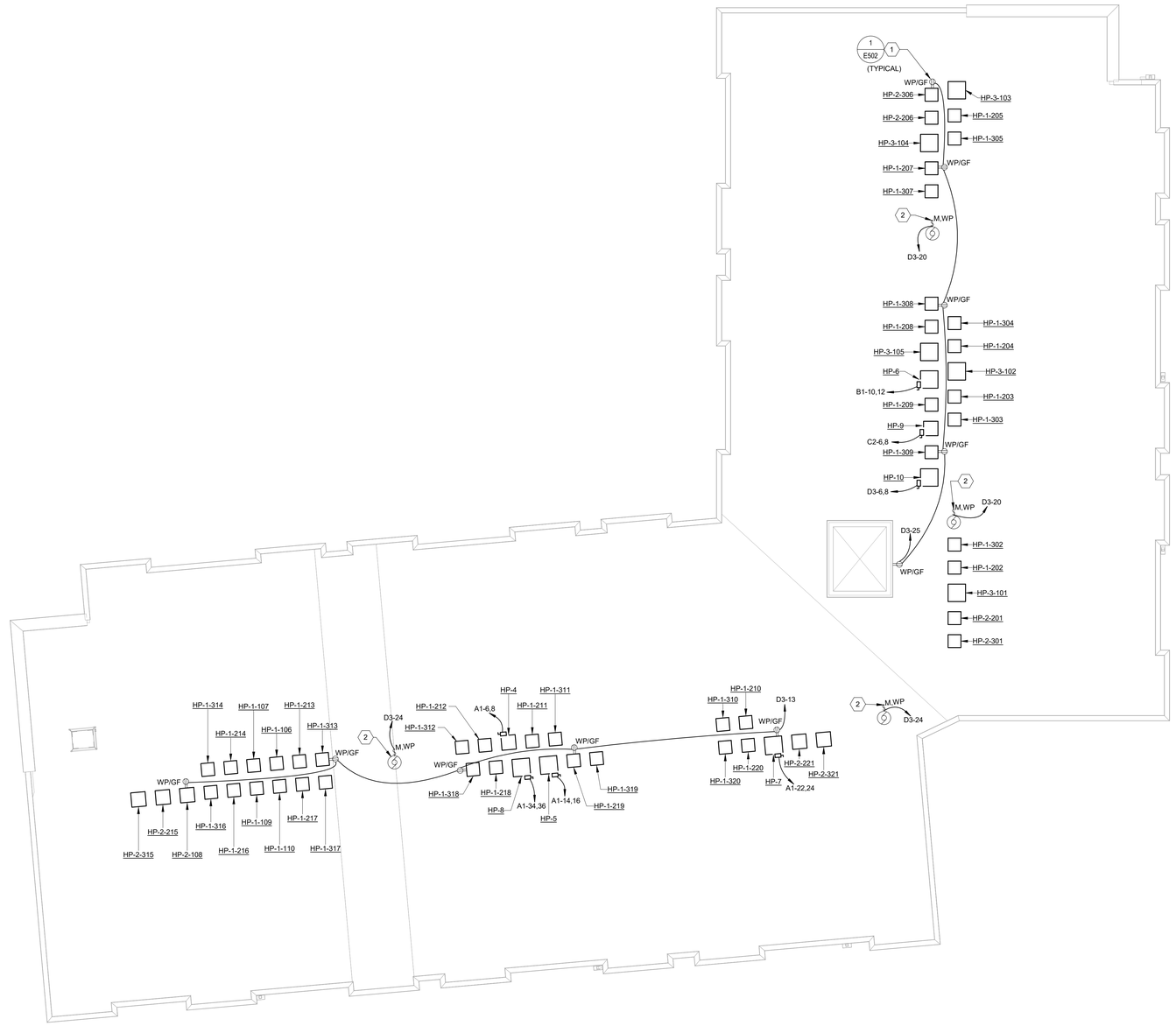
HEAT PUMP UNIT LEGEND

UNIT SIZE — APARTMENT UNIT SERVED/HOUSE AIR HANDLER LOCATION

HP-X-XXX



1 **PLAN** ROOF PLAN - ELECTRICAL
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE MOUNTING HEIGHT AND FINAL LOCATIONS OF RECEPTACLES, DEVICES AND EQUIPMENT WITH ARCHITECTURAL DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN.

B. ALL CONDUIT RUNS AND WIRING, DEVICES AND ASSOCIATED ELECTRICAL WORK WHICH PENETRATES THRU FIRE RATED WALLS OR FIRE RATED ASSEMBLIES SHALL BE COMPLETELY FIRE SEALED AT EACH PENETRATION. PROVIDE FIRE RATED PUTTY PADS ON ALL JUNCTION BOXES LOCATED IN FIRE RATED WALLS.

C. REFER TO CONDUIT ROOF PENETRATION DETAIL, SHEET E502, FOR TYPICAL ROOF PENETRATION REQUIREMENTS.

CODED NOTES

1. PROVIDE SERVICE RECEPTACLE. REFER TO DETAIL 1/E502.

2. PROVIDE A 120 VOLT, SINGLE POLE, TOGGLE TYPE DISCONNECT AT EACH OF (4) LOCATIONS FOR RADON FAN INSTALLATION. DISCONNECTS SHALL BE PROVIDED WITH WEATHERPROOF ENCLOSURES. COORDINATE EXACT DISCONNECT LOCATIONS WITH VERTICAL RADON VENT PIPING PRIOR TO ROUGH-IN. PROVIDE WEATHERTIGHT CONNECTION FROM DISCONNECT TO FAN PER MANUFACTURER'S REQUIREMENTS.

HP REQUIREMENTS

1. REFER TO MECHANICAL EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION.

2. PROVIDE LOCAL DISCONNECT SWITCH TO SERVE EACH HEAT PUMP UNIT IN ACCORDANCE WITH THE EQUIPMENT STARTER / DISCONNECT SCHEDULE, SHEET E602. MAKE FINAL CONNECTIONS FROM DISCONNECT TO HEAT PUMP UNIT USING LIQUID TIGHT FLEXIBLE METAL CONDUIT.

3. LOCAL DISCONNECT SWITCHES SHALL BE GROUP MOUNTED ON UNISTRUT FRAMING. TOP OF FRAMING SHALL BE APPROXIMATELY 30" ABOVE FINISHED ROOF. ANCHOR FRAMING TO ROOF RAILS BENEATH HVAC UNITS. PROVIDE BUILT-UP ROOF CURB AREA BENEATH DISCONNECT SWITCHES. HEAT PUMP CONDUITS SHALL PENETRATE ROOF IN GROUPS USING NEOPRENE BOOTS. COORDINATE PENETRATIONS WITH OTHER TRADES TO MINIMIZE TOTAL LOCATIONS.

4. CIRCUIT APARTMENT HEAT PUMP UNITS BACK TO UNIT PANEL. CIRCUIT COMMON AREA HEAT PUMP UNITS TO HOUSE PANELS AS SHOWN ON THIS SHEET, AS APPLICABLE.

5. CONDUIT AND CONDUCTOR SIZES INDICATED BELOW ARE MINIMUM SIZES AND SHALL BE INCREASED AS REQUIRED TO ACCOMMODATE VOLTAGE DROP, NOT TO EXCEED 3%, BASED ON THE OVERALL LENGTH OF THE BRANCH CIRCUIT.

6. PROVIDE THE FOLLOWING CIRCUITRY FOR EACH HEAT PUMP UNIT:

   TYPE HP-1-XXX:
   2 - #12 AWG AND 1 - #12 GROUND IN 3/4" CONDUIT FROM UNIT PANEL.

   TYPE HP-2-XXX AND HP-3-XXX:
   2 - #10 AWG AND 1 - #10 GROUND IN 3/4" CONDUIT FROM UNIT PANEL.

   TYPES HP-4-XXX, HP-5-XXX, HP-7-XXX, HP9-XXX & HP-10-XXX:
   2 - #10 AWG AND 1 - #10 GROUND IN 3/4" CONDUIT FROM HOUSE PANEL.

   TYPES HP-6-XXX AND HP-8-XXX:
   2 - #8 AWG AND 1 - #10 GROUND IN 3/4" CONDUIT FROM HOUSE PANEL.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
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DRAWING TITLE:
ROOF PLAN - OVERALL - ELECTRICAL

STATE OF OHIO · GAVIN LIM · 3/29/22 · PROFESSIONAL ENGINEER

APRIL 4, 2022

DRAWN BY: **Author** | CHECKED BY: **Checker**

Proj. #20643

E204

PERMIT & BID SET

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Panel: 1A1

Location: SEE OVERALL PLANS
Supply From: METER CENTER
Mounting: RECESSED
Enclosure: NEMA 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 125 A
MCB Rating: 125 A

CKT	Circuit Description	Trip	Poles	Brkr Opt	A		B		Brkr Opt	Poles	Trip	Circuit Description	CKT
1	LTG/RECEPT - HALLWAY	20 A	1	AF	0.9	2.6				2	45 A	AIR HANDLER	2
3	LTG/RECEPT - BATHROOM	20 A	1	AF			0.3	2.6					4
5	LTG/RECEPT - BEDROOM	20 A	1	AF	0.9	1.2				2	20 A	HEAT PUMP	6
7	LTG/RECEPT - LIVING ROOM	20 A	1	AF			1.0	1.2					8
9	REFRIGERATOR	20 A	1	AF, GF	0.9	2.3				2	30 A	WATER HEATER	10
11	MICROWAVE	20 A	1	AF, GF			1.5	2.3					12
13	DISHWASHER (FUTURE)	20 A	1	AF, GF	0.8	2.5				2	30 A	DRYER	14
15	RECEPTACLE - KITCHEN	20 A	1	AF			0.4	2.5					16
17	OVEN	50 A	2		4.0	1.5			AF,GF	1	20 A	WASHER	18
19							4.0	0.8	AF,GF	1	20 A	GARBAGE DISPOSAL	20
21	SPARE	20 A	1	--	0.0	0.0			--	1	20 A	SPARE	22
23	SPARE	20 A	1	--			0.0	0.0	--	1	20 A	SPARE	24

PANEL SCHEDULE NOTES:

1. REFER TO APARTMENT UNIT SERVICE LOAD CALCULATIONS, THIS SHEET, FOR DWELLING UNIT SERVICE LOAD CALCULATIONS PER NEC 220.82.
2. REFER TO OVERALL FLOOR PLANS FOR INDIVIDUAL APARTMENT UNIT PANEL DESIGNATIONS. THE LAST CHARACTER IN THE PANEL DESIGNATION INDICATES THE TYPE OF HVAC SERVING EACH UNIT.
3. TYPICAL PANEL SCHEDULE 1B1, THIS SHEET, SHALL APPLY TO PANEL TYPE 1B2, EXCEPT AS MODIFIED BELOW.
4. TYPICAL PANEL SCHEDULES SHALL BE ADJUSTED TO ACCOMMODATE HVAC UNITS AS FOLLOWS:
   A. PANEL TYPES 1A1 AND 1B1 UTILIZE AHU-1 AND HP-1. PROVIDE A 45 AMP, 2 POLE BREAKER FOR TYPE AHU-1 AND A 20 AMP, 2 POLE BREAKER FOR HP-1.
   B. PANEL TYPE 1B2 UTILIZES AHU-2 AND HP-2. PROVIDE A 45 AMP, 2 POLE BREAKER FOR TYPE AHU-2 AND A 25 AMP, 2 POLE BREAKER FOR HP-2.

Panel: 1B1

Location: SEE OVERALL PLANS
Supply From: METER CENTER
Mounting: RECESSED
Enclosure: NEMA 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 125 A
MCB Rating: 125 A

CKT	Circuit Description	Trip	Poles	Brkr Opt	A		B		Brkr Opt	Poles	Trip	Circuit Description	CKT
1	LTG/RECEP - HALLWAY	20 A	1	AF	0.8	4.6				2	45 A	AIR HANDLER	2
3	LTG/RECEPT - BATHROOM	20 A	1	AF			0.3	4.6					4
5	LTG/RECEPT - BEDROOM	20 A	1	AF	0.9	1.2				2	20 A	HEAT PUMP	6
7	LTG/RECEPT - LIVING ROOM	20 A	1	AF			1.0	1.2					8
9	REFRIGERATOR	20 A	1	AF,GF	0.9	0.0				2	30 A	WATER HEATER	10
11	RECEPTACLE - KITCHEN	20 A	1	AF			0.4	0.0					12
13	DISHWASHER (FUTURE)	20 A	1	AF,GF	0.8	2.5				2	30 A	DRYER	14
15	MICROWAVE	20 A	1	AF,GF			1.5	2.5	AF,GF				16
17	OVEN	50 A	2		4.0	1.5			AF,GF	1	20 A	WASHER	18
19							4.0	0.8	AF, GF	1	20 A	GARBAGE DISPOSAL	20
21	SPARE	20 A	1	--	0.0	0.2			AF	1	20 A	RECEPTACLE - KITCHEN	22
23	SPARE	20 A	1	--			0.0	0.0	--	1	20 A	SPARE	24

BREAKER OPTIONS (IF USED):
LO - LOCK-ON DEVICE
GF - GND FAULT CKT INTERRUPTER
AF - ARC FAULT CKT INTERRUPTER

APARTMENT UNIT SERVICE LOAD CALCULATIONS

UNIT TYPE	1 BEDROOM TYPE A & B		1 BEDROOM TYPE B	
HVAC TYPE	AHU-1/HP-1		AHU-2/HP-2	
GROSS SQFT	580		580	
GENERAL (3 VA/SQFT)	1740	VA	1740	VA
APPLIANCES (2 @ 1500VA)	3000	VA	3000	VA
LAUNDRY	1500	VA	1500	VA
DISPOSAL	828	VA	828	VA
DISHWASHER (FUTURE)	900	VA	900	VA
RANGE	8000	VA	8000	VA
DRYER	5000	VA	5000	VA
WATER HEATER	4500	VA	4500	VA
TOTAL GENERAL CONNECTED	25468	VA	25468	VA
FIRST 10000 @ 100%	10000	VA	10000	VA
REMAINDER @ 40%	6187.2	VA	6187.2	VA
TOTAL GENERAL DEMAND	16187.2	VA	16187.2	VA
AIR HANDLER MOTOR	582.4	VA	582.4	VA
AIR HANDLER HEAT	6011.2	VA	6011.2	VA
HEAT PUMP	2454.4	VA	2953.6	VA
TOTAL HVAC CONNECTED	9048	VA	9547.2	VA
TOTAL HVAC DEMAND*	6944.08	VA	7443.28	VA
TOTAL UNIT DEMAND	23131.28	VA	23630.48	VA
TOTAL DEMAND AMPS (120/208V-1Ø)	111.2	A	113.6	A

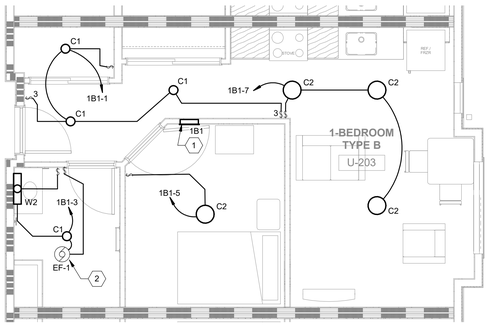
*NEC 220.82(C)(3) - 100% MOTOR; 100% HEAT PUMP COMPRESSOR; 65% SUPPLEMENTAL ELECTRIC HEAT

GENERAL NOTES

A. EACH UNIT PLAN REPRESENTS MULTIPLE APARTMENT UNITS WITH SIMILAR LAYOUTS. COORDINATE EXACT UNIT LAYOUT INCLUDING ROUGH-INS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EACH UNIT.
B. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.
C. COORDINATE MOUNTING HEIGHT AND FINAL LOCATIONS OF RECEPTACLES, DEVICES AND EQUIPMENT WITH ARCHITECTURAL DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN.
D. COORDINATE ALL FIRE ALARM DEVICE AND EQUIPMENT LOCATIONS WITH APPROVED FIRE ALARM SHOP DRAWINGS PRIOR TO ROUGH-IN.
E. COORDINATE ALL DEVICE LOCATIONS WITH FRAMING MEMBERS PRIOR TO ROUGH-IN.
F. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND /OR CABINET BACK PANEL.
G. ALL 120-VOLT, 15 & 20 AMP RECEPTACLES IN DWELLING UNITS SHALL BE TAMPER-RESISTANT TYPE.
H. ALL 120-VOLT, SINGLE PHASE, 15 & 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS IN BEDROOMS, LIVING ROOMS, HALLWAYS, CLOSETS, LAUNDRY AREAS AND SIMILAR ROOMS SHALL BE AFCI PROTECTED AT THE CIRCUIT BREAKER.
I. ALL RECEPTACLES LOCATED IN THE BATHROOM, KITCHEN, LAUNDRY AREA OR WITHIN 6'-0" OF THE OUTSIDE EDGE OF A SINK, SHALL BE GFCI PROTECTED PER NEC 210.8. RECEPTACLES INSTALLED IN ACCESSIBLE LOCATIONS SHALL BE GFCI TYPE. RECEPTACLES INSTALLED BEHIND EQUIPMENT OR OTHERWISE INACCESSIBLE LOCATIONS SHALL BE GFCI PROTECTED AT THE CIRCUIT BREAKER.
J. ALL CONDUIT RUNS AND WIRING, DEVICES AND ASSOCIATED ELECTRICAL WORK WHICH PENETRATES THRU FIRE RATED WALLS OR FIRE RATED ASSEMBLIES SHALL BE COMPLETELY FIRE SEALED AT EACH PENETRATION. PROVIDE FIRE RATED PUTTY PADS ON ALL JUNCTION BOXES LOCATED IN FIRE RATED WALLS.
K. WRAP ALL CIRCUIT WIRES TO DEVICES WITH MASKING TAPE PRIOR TO PAINTING. ALL DEVICES AND COVERPLATES SHALL BE INSTALLED AFTER PAINTING IS COMPLETE.
L. WRAP WIRING DEVICES WITH 2 LAYERS OF VINYL ELECTRICAL TAPE AFTER TERMINATIONS HAVE BEEN COMPLETED.
M. THE ELECTRICAL PANEL IN EACH APARTMENT UNIT SHALL BE MOUNTED IN SUCH THAT THE TOP CIRCUIT BREAKER IS NOT MORE THAN 48" A.F.F. AND SHALL COMPLY WITH ANSI A117.1.
N. ELECTRICAL DEVICES AND WIRING RUN ALONG EXPOSED ACCENT BRING WALLS AND EXPOSED STRUCTURE SHALL USE METAL BOXES AND THIN WALL EMT CONDUIT. CONDUITS SHALL BE RUN TIGHT TO SURFACE AND PERPENDICULAR OR PARALLEL TO BUILDING ELEMENTS. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR LOCATIONS.
O. IN ALL ADA TYPE DWELLING UNITS, PROVIDE 1-1/2" BOX EXTENSION FOR ALL ABOVE COUNTER RECEPTACLES.
P. ROUGH-IN FOR TELEVISION AND COMMUNICATIONS OUTLETS SHALL BE A 4" SQUARE BACK BOX WITH SINGLE GANG REDUCER AND A 1" CONDUIT TO POINT OF SERVICE ROOM. PROVIDE PROTECTIVE BUSHINGS.
Q. ALL LOW VOLTAGE WIRING INCLUDING BUT NOT NECESSARILY LIMITED TO, CABLE TV, TELEPHONE, SECURITY AND FIRE ALARM WIRING, SHALL BE INSTALLED PRIOR TO DRYWALL COVERUP.
R. AT TELEVISION SERVICE LOCATIONS, SERVICE PROVIDER (AT&T) SHALL BE PROVIDE ONE (1) CAT 5E CABLE AND ONE (1) RG6 COAXIAL CABLE TO HOMERUN TO CLOSET AS INDICATED IN CODED NOTE 15. SERVICE PROVIDER SHALL PROVIDE A MINIMUM OF 20'-0" SERVICE LOOP AT THE END OF EACH CABLE FOR TERMINATION TO EQUIPMENT FURNISHED BY SERVICE PROVIDER. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
S. UNLESS NOTED OTHERWISE, LIGHTING CONTROLS SHALL SERVE LUMINAIRES SHOWN IN THE SAME SPACE.

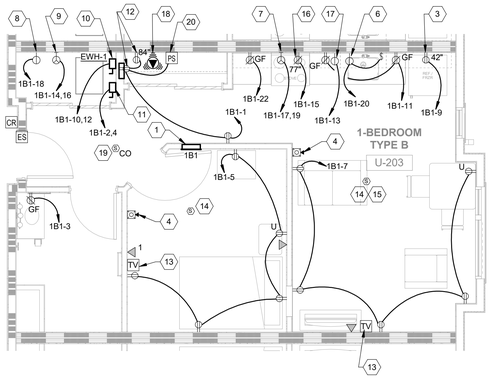
SENSORY IMPAIRED NOTES

A. SEE ARCHITECTURAL PLANS FOR SUMMARY OF SENSORY IMPAIRED UNITS.
B. IN EACH SENSORY IMPAIRED UNIT PROVIDE PUSH-BUTTON, TRANSFORMER AND LINE VOLTAGE/LOW VOLTAGE WIRING FOR HEARING IMPAIRED DOORBELL, SIMILAR TO EDWARDS #7005-G5. MOUNT TRANSFORMER IN FLUSH MOUNTED JUNCTION BOX. PROVIDE OCCUPANT NOTIFICATION HORN/STROBE IN EACH BEDROOM, BATHROOM AND COMMON AREA.
C. PROVIDE COMBINATION HIGH INTENSITY STROBE AND LOW FREQUENCY TONE FIRE ALARM NOTIFICATION APPLIANCE IN THE BEDROOM.
D. PROVIDE COMBINATION STROBE AND LOW FREQUENCY TONE FIRE ALARM NOTIFICATION APPLIANCE IN THE BATHROOM.
E. ALL SENSORY IMPAIRED UNIT FIRE ALARM NOTIFICATION DEVICES SHALL BE INTERCONNECTED AND SIMULTANEOUS.



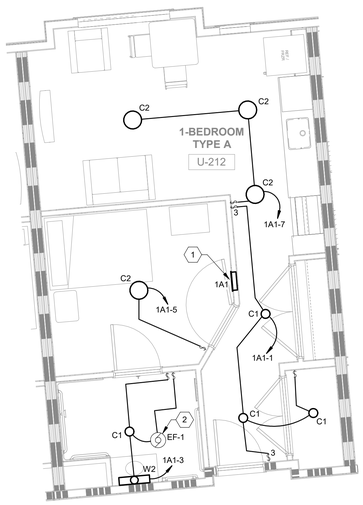
1 ENLARGED PLAN 1B1-BEDROOM ENLARGED UNIT - TYPE B - LIGHTING

1/4" = 1'-0"



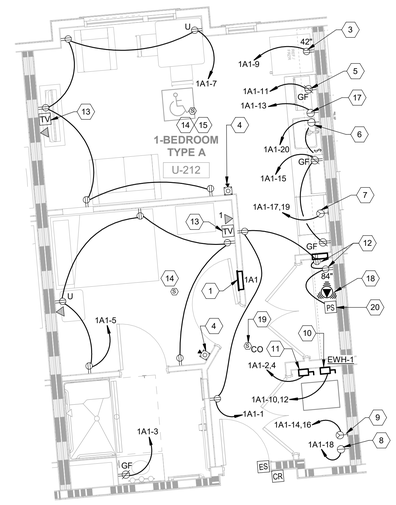
2 ENLARGED PLAN 1B1-BEDROOM ENLARGED UNIT - TYPE B - POWER, TELECOMM, SECURITY

1/4" = 1'-0" REF: 1 / E102



3 ENLARGED PLAN 1A1-BEDROOM ENLARGED UNIT- TYPE A - LIGHTING

1/4" = 1'-0"



4 ENLARGED PLAN 1A1-BEDROOM ENLARGED UNIT - TYPE A - POWER, TELECOMM, SECURITY

1/4" = 1'-0" REF: 1 / E102

CODED NOTES

1. UNIT LOAD CENTER. ROUTE ALL CIRCUITS IN EACH SPACE THROUGH UNIT'S LOAD CENTER.
2. COORDINATE MULTI-SPEED EXHAUST FAN CONTROL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO BEGINNING OF WORK. MECHANICAL CONTRACTOR SHALL FURNISH CONTROL COMPONENTS, INCLUDING BUT NOT LIMITED TO MULTI-SPEED CONTROLLER AND OCCUPANCY SENSOR, TO BE WIRED COMPLETE BY THE ELECTRICAL CONTRACTOR. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
3. PROVIDE A 120 VOLT, 20 AMP DUPLEX RECEPTACLE FOR A REFRIGERATOR
4. PROVIDE FIRE ALARM DEVICE WITH LOW FREQUENCY TONE RATED AT 520 HERTZ. EXTEND WIRING TO BUILDING FIRE ALARM SYSTEM.
5. PROVIDE A 120 VOLT, 20 AMP DUPLEX RECEPTACLE FOR A MICROWAVE ABOVE COUNTER.
6. PROVIDE A 120 VOLT, 20 AMP SIMPLEX RECEPTACLE MOUNTED IN BASE CABINETRY FOR A GARBAGE DISPOSAL. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. FIELD COORDINATE LOCATION OF CONTROL SWITCH TO BE MOUNTED ABOVE COUNTER ADJACENT TO SINK OR WITHIN BASE CABINETRY AS REQUIRED.
7. PROVIDE A 120/240 VOLT, 50 AMP SIMPLEX RECEPTACLE FOR A RANGE. ASSUME A NEMA 14-50 CONFIGURATION FOR BIDDING PURPOSES. VERIFY EXACT CONFIGURATION WITH EQUIPMENT SUPPLIER PRIOR TO ORDERING. FIELD COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
8. PROVIDE A 120 VOLT, 20 AMP DUPLEX RECEPTACLE FOR A CLOTHES WASHER. VERIFY THE FINAL MOUNTING HEIGHT WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
9. PROVIDE A 120/240V, 30 AMP RECEPTACLE FOR A DRYER. ASSUME A NEMA 14-30 CONFIGURATION FOR BIDDING PURPOSES. VERIFY EXACT CONFIGURATION WITH EQUIPMENT SUPPLIER PRIOR TO ORDERING. FIELD COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
10. PROVIDE NON-FUSED DISCONNECT SWITCH TO SERVE WATER HEATER (208V, 1PH). MAKE FINAL CONNECTIONS.
11. HVAC UNIT. PROVIDE POWER CONNECT TO NON-FUSED DISCONNECT SWITCH SERVING THE UNIT. MAKE FINAL CONNECTIONS TO CONDENSING UNIT OUTSIDE. (REFER TO PANEL SCHEDULE NOTES ON THIS SHEET FOR ADDITIONAL INFORMATION). CONTROL WIRING TO UNIT IS BY DIVISION 23. REFER TO MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.
12. RECEPTACLE BESIDE AND INSIDE MEDIA CENTER. BASIS OF DESIGN FOR MEDIA CENTER IS 30" X 14.5" LEGRAND ENP3050-NA-30" WITH TWO DEVICE SHELVES. CABINET SHALL BE AT LEAST 30" HIGH. MOUNT MEDIA CENTER TOP 72" A.F.F.
13. RECESSED BOX FOR CO-AXIAL CABLE AND DATA CONNECTION FOR TELEVISION. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION PRIOR TO ROUGH-IN.
14. CEILING MOUNTED SMOKE ALARM, 120 VOLT WITH BATTERY BACK-UP, BRK # 7010B OR EQUAL. CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. ALL ALARMS WITHIN AN APARTMENT UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.
15. PROVIDE AUXILIARY RELAY AT SMOKE ALARM TO INTERCONNECT WITH AND SHUTDOWN APARTMENT UNIT AIR HANDLER UPON ALARM. AUXILIARY RELAY SHALL BE BRK ELECTRONICS #RM4 OR EQUAL.
16. PROVIDE A 120 VOLT, 20 AMP DUPLEX RECEPTACLE FOR MICROWAVE MOUNTED INSIDE THE CABINET ABOVE RANGE FOR RANGE HOOD AND MICROWAVE (120V, 1PH). COORDINATE WITH CABINET INSTALLER PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION.
17. PROVIDE A 120 VOLT, 20 AMP SIMPLEX RECEPTACLE MOUNTED BELOW SINK, FLUSH IN BASE CABINETRY FOR A FUTURE DISHWASHER. FIELD COORDINATE EXACT LOCATION WITH ARCHITECT AND CASEWORK PROVIDER PRIOR TO ROUGH-IN.
18. PROVIDE FLUSH, CEILING-MOUNTED, SINGLE GANG BOX WITH SINGLE DATA JACK FOR FUTURE POE WIRELESS ACCESS POINT (ACCESS POINT BY OTHERS).
19. CEILING MOUNTED COMBO SMOKE/CO ALARM, 120 VOLT WITH BATTERY BACK-UP, BRK #SC7010B OR EQUAL. CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. ALL ALARMS WITHIN AN APARTMENT UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.
20. PROVIDE PS902 ACCESS CONTROLLED POWER SUPPLY, SURFACE MOUNTED ON WALL, NEAR CEILING, 120VAC POWER.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
ENLARGED UNIT PLANS - 1 BEDROOM UNITS

APRIL 4, 2022
DRAWN BY: **MC/NA** CHECKED BY: **NA/GL**
Proj. #20643

STATE OF OHIO — 3/29/22 — GAVIN LIM — PROFESSIONAL ENGINEER

E401

PERMIT & BID SET

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

PRINT DATE: 3/31/2022 10:45:28 AM
FILE INFO: C:\Users\monique\Documents\20643 Hamlets Hope PSH_MEP v21_Monique Caldwell.rvt

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Panel: 2A3

Location: SEE OVERALL PLANS
Supply From: METER CENTER
Mounting: RECESSED
Enclosure: NEMA 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 125 A
MCB Rating: 125 A

CKT	Circuit Description	Trip	Poles	Brkr Opt	A		B		Brkr Opt	Poles	Trip	Circuit Description	CKT
1	LTG/RECEPT. - KITCHEN	20 A	1	AF	0.6	5.6				2	60 A	AIR HANDLING UNIT	2
3	LTG/RECEPT. - N. BATHROOM	20 A	1	AF			0.3	5.6					4
5	LTG/RECEPT. - N. BEDROOM	20 A	1	AF	0.9	1.9				2	30 A	HEAT PUMP	6
7	LTG/RECEPT. - LIVING ROOM	20 A	1	AF			1.3	1.9					8
9	LTG/RECEPT. - S. BEDROOM	20 A	1	AF	1.0	2.3				2	30 A	WATER HEATER	10
11	LTG/RECEPT. - S. BATHROOM	20 A	1	AF			0.3	2.3					12
13	REFRIGERATOR	20 A	1	AF, GF	0.9	2.5				2	30 A	DRYER	14
15	RECEPTACLE - KITCHEN	20 A	1	AF			0.4	2.5					16
17	OVEN	50 A	2		4.0	1.5			AF, GF	1	20 A	WASHER	18
19							4.0	0.8	AF, GF	1	20 A	GARBAGE DISPOSAL	20
21	MICROWAVE	20 A	1	AF, GF	1.5	0.8			AF, GF	1	20 A	DISHWASHER (FUTURE)	22
23	SPARE	20 A	1	--			0.0	0.0	--	1	20 A	SPARE	24

Panel: 2B3

Location: SEE OVERALL PLANS
Supply From: METER CENTER
Mounting: RECESSED
Enclosure: NEMA 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 125 A
MCB Rating: 125 A

CKT	Circuit Description	Trip	Poles	Brkr Opt	A		B		Brkr Opt	Poles	Trip	Circuit Description	CKT
1	LTG/RECEPT. - KITCHEN	20 A	1	AF	0.6	1.9				2	60 A	AIR HANDLING UNIT	2
3	LTG/RCPT. - N. BATHROOM	20 A	1	AF			0.3	1.9					4
5	LTG/RECEPT. - N. BEDROOM	20 A	1	AF	0.9	1.9				2	30 A	HEAT PUMP	6
7	LTG/RECEPT. - LIVING ROOM	20 A	1	AF			1.5	1.9					8
9	LTG/RCPT. - S. BATHROOM	20 A	1	AF	0.3	2.3				2	30 A	WATER HEATER	10
11	LTG/RCPT. - S. BEDROOM	20 A	1	AF			1.0	2.3					12
13	REFRIGERATOR	20 A	1	AF, GF	0.9	2.5				2	30 A	DRYER	14
15	RECEPTACLE - KITCHEN	20 A	1	AF			0.5	2.5					16
17	OVEN	50 A	2		4.0	1.5			AF,GF	1	20 A	WASHER	18
19							4.0	0.8	AF,GF	1	20 A	GARBAGE DISPOSAL	20
21	MICROWAVE	20 A	1	AF, GF	1.5	0.8			AF,GF	1	20 A	DISHWASHER (FUTURE)	22
23	SPARE	20 A	1	--			0.0	0.0	--	1	20 A	SPARE	24

PANEL SCHEDULE NOTES:

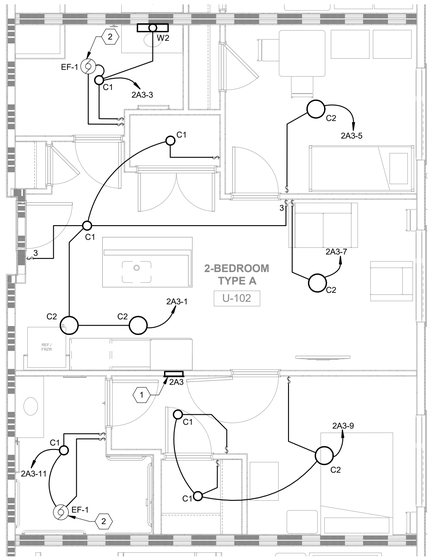
1. REFER TO APARTMENT UNIT SERVICE LOAD CALCULATIONS, THIS SHEET, FOR DWELLING UNIT SERVICE LOAD CALCULATIONS PER NEC 220.82.
2. REFER TO OVERALL FLOOR PLANS FOR INDIVIDUAL APARTMENT UNIT PANEL DESIGNATIONS. THE LAST CHARACTER IN THE PANEL DESIGNATION INDICATES THE TYPE OF HVAC SERVING EACH UNIT.

BREAKER OPTIONS (IF USED):
LO - LOCK-ON DEVICE
GF - GND FAULT CKT INTERRUPTER
AF - ARC FAULT CKT INTERRUPTER

APARTMENT UNIT SERVICE LOAD CALCULATIONS

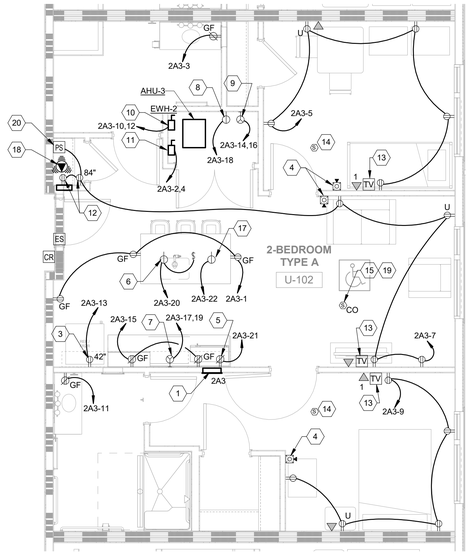
UNIT TYPE	2 BEDROOM TYPE A & B	
HVAC TYPE	AHU-3/HP-3	
GROSS SQFT	909	
GENERAL (3 VA/SQFT)	2727	VA
APPLIANCES (2 @ 1500VA)	3000	VA
LAUNDRY	1500	VA
DISPOSAL	828	VA
DISHWASHER (FUTURE)	900	VA
RANGE	8000	VA
DRYER	5000	VA
WATER HEATER	4500	VA
TOTAL GENERAL CONNECTED	26455	VA
FIRST 10000 @ 100%	10000	VA
REMAINDER @ 40%	6582	VA
TOTAL GENERAL DEMAND	16582	VA
AIR HANDLER MOTOR	582.4	VA
AIR HANDLER HEAT	7529.6	VA
HEAT PUMP	3806.4	VA
TOTAL HVAC CONNECTED	11918.4	VA
TOTAL HVAC DEMAND*	9283.04	VA
TOTAL UNIT DEMAND	25865.04	VA
TOTAL DEMAND AMPS (120/208V-1Ø)	124.4	A

*NEC 220.82(C)(3) - 100% MOTOR; 100% HEAT PUMP COMPRESSOR; 65% SUPPLEMENTAL ELECTRIC HEAT



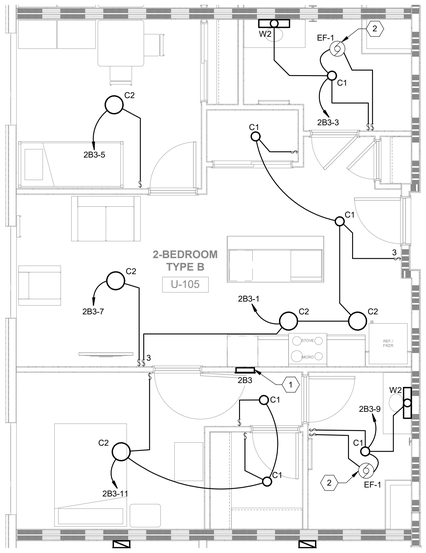
1 ENLARGED PLAN 2A3-BEDROOM ENLARGED UNIT - TYPE A - LIGHTING

1/4" = 1'-0" REF: 1 / E101



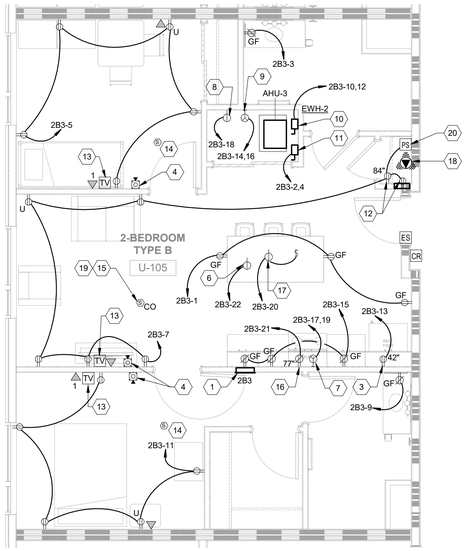
2 ENLARGED PLAN 2A3-BEDROOM ENLARGED UNIT - TYPE A - POWER, TELECOMM, SECURITY

1/4" = 1'-0" REF: 1 / E201



3 ENLARGED PLAN 2B3-BEDROOM ENLARGED UNIT - TYPE B - LIGHTING

1/4" = 1'-0" REF: 1 / E101



4 ENLARGED PLAN 2B3-BEDROOM ENLARGED UNIT - TYPE B - POWER, TELECOMM, SECURITY

1/4" = 1'-0" REF: 1 / E201

GENERAL NOTES

A. EACH UNIT PLAN REPRESENTS MULTIPLE APARTMENT UNITS WITH SIMILAR LAYOUTS. COORDINATE EXACT UNIT LAYOUT INCLUDING ROUGH-INS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EACH UNIT.

B. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

C. COORDINATE MOUNTING HEIGHT AND FINAL LOCATIONS OF RECEPTACLES, DEVICES AND EQUIPMENT WITH ARCHITECTURAL DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN.

D. COORDINATE ALL FIRE ALARM DEVICE AND EQUIPMENT LOCATIONS WITH APPROVED FIRE ALARM SHOP DRAWINGS PRIOR TO ROUGH-IN.

E. COORDINATE ALL DEVICE LOCATIONS WITH FRAMING MEMBERS PRIOR TO ROUGH-IN.

F. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND /OR CABINET BACK PANEL.

G. ALL 120-VOLT, 15 & 20 AMP RECEPTACLES IN DWELLING UNITS SHALL BE TAMPER-RESISTANT TYPE.

H. ALL 120-VOLT, SINGLE PHASE, 15 & 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS IN BEDROOMS, LIVING ROOMS, HALLWAYS, CLOSETS, LAUNDRY AREAS AND SIMILAR ROOMS SHALL BE AFCI PROTECTED AT THE CIRCUIT BREAKER.

I. ALL RECEPTACLES LOCATED IN THE BATHROOM, KITCHEN, LAUNDRY AREA OR WITHIN 6'-0" OF THE OUTSIDE EDGE OF A SINK, SHALL BE GFCI PROTECTED PER NEC 210.8. RECEPTACLES INSTALLED IN ACCESSIBLE LOCATIONS SHALL BE GFCI TYPE. RECEPTACLES INSTALLED BEHIND EQUIPMENT OR OTHERWISE INACCESSIBLE LOCATIONS SHALL BE GFCI PROTECTED AT THE CIRCUIT BREAKER.

J. ALL CONDUIT RUNS AND WIRING, DEVICES AND ASSOCIATED ELECTRICAL WORK WHICH PENETRATES THRU FIRE RATED WALLS OR FIRE RATED ASSEMBLIES SHALL BE COMPLETELY FIRE SEALED AT EACH PENETRATION. PROVIDE FIRE RATED PUTTY PADS ON ALL JUNCTION BOXES LOCATED IN FIRE RATED WALLS.

K. WRAP ALL CIRCUIT WIRES TO DEVICES WITH MASKING TAPE PRIOR TO PAINTING. ALL DEVICES AND COVERPLATES SHALL BE INSTALLED AFTER PAINTING IS COMPLETE.

L. WRAP WIRING DEVICES WITH 2 LAYERS OF VINYL ELECTRICAL TAPE AFTER TERMINATIONS HAVE BEEN COMPLETED.

M. THE ELECTRICAL PANEL IN EACH APARTMENT UNIT SHALL BE MOUNTED IN SUCH THAT THE TOP CIRCUIT BREAKER IS NOT MORE THAN 48" A.F.F. AND SHALL COMPLY WITH ANSI A117.1.

N. ELECTRICAL DEVICES AND WIRING RUN ALONG EXPOSED ACCENT BRING WALLS AND EXPOSED STRUCTURE SHALL USE METAL BOXES AND THIN WALL EMT CONDUIT. CONDUITS SHALL BE RUN TIGHT TO SURFACE AND PERPENDICULAR OR PARALLEL TO BUILDING ELEMENTS. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR LOCATIONS.

O. IN ALL ADA TYPE DWELLING UNITS, PROVIDE 1-1/2" BOX EXTENSION FOR ALL ABOVE COUNTER RECEPTACLES.

P. ROUGH-IN FOR TELEVISION AND COMMUNICATIONS OUTLETS SHALL BE A 4" SQUARE BACK BOX WITH SINGLE GANG REDUCER AND A 1" CONDUIT TO POINT OF SERVICE ROOM. PROVIDE PROTECTIVE BUSHINGS.

Q. ALL LOW VOLTAGE WIRING INCLUDING BUT NOT NECESSARILY LIMITED TO, CABLE TV, TELEPHONE, SECURITY AND FIRE ALARM WIRING, SHALL BE INSTALLED PRIOR TO DRYWALL COVERUP.

R. AT TELEVISION SERVICE LOCATIONS, SERVICE PROVIDER (AT&T) SHALL BE PROVIDE ONE (1) CAT 5E CABLE AND ONE (1) RG6 COAXIAL CABLE TO HOMERUN TO CLOSET AS INDICATED IN CODED NOTE 19. SERVICE PROVIDER SHALL PROVIDE A MINIMUM OF 20'-0" SERVICE LOOP AT THE END OF EACH CABLE FOR TERMINATION TO EQUIPMENT FURNISHED BY SERVICE PROVIDER. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

S. UNLESS NOTED OTHERWISE, LIGHTING CONTROLS SHALL SERVE LUMINAIRES SHOWN IN THE SAME SPACE.

SENSORY IMPAIRED NOTES

A. SEE ARCHITECTURAL PLANS FOR SUMMARY OF SENSORY IMPAIRED UNITS.

B. IN EACH SENSORY IMPAIRED UNIT PROVIDE PUSH-BUTTON, TRANSFORMER AND LINE VOLTAGE/LOW VOLTAGE WIRING FOR HEARING IMPAIRED DOORBELL, SIMILAR TO EDWARDS #7005-G5. MOUNT TRANSFORMER IN FLUSH MOUNTED JUNCTION BOX. PROVIDE OCCUPANT NOTIFICATION HORN/STROBE IN EACH BEDROOM, BATHROOM AND COMMON AREA.

C. PROVIDE COMBINATION HIGH INTENSITY STROBE AND LOW FREQUENCY TONE FIRE ALARM NOTIFICATION APPLIANCE IN THE BEDROOM.

D. PROVIDE COMBINATION STROBE AND LOW FREQUENCY TONE FIRE ALARM NOTIFICATION APPLIANCE IN THE BATHROOM.

E. ALL SENSORY IMPAIRED UNIT FIRE ALARM NOTIFICATION DEVICES SHALL BE INTERCONNECTED AND SIMULTANEOUS.

CODED NOTES

1. UNIT LOAD CENTER. ROUTE ALL CIRCUITS IN EACH SPACE THROUGH UNIT'S LOAD CENTER.
2. COORDINATE MULTI-SPEED EXHAUST FAN CONTROL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO BEGINNING OF WORK. MECHANICAL CONTRACTOR SHALL FURNISH CONTROL COMPONENTS, INCLUDING BUT NOT LIMITED TO MULTI-SPEED CONTROLLER AND OCCUPANCY SENSOR, TO BE WIRED COMPLETE BY THE ELECTRICAL CONTRACTOR. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
3. PROVIDE A 120 VOLT, 20 AMP DUPLEX RECEPTACLE FOR A REFRIGERATOR.
4. PROVIDE FIRE ALARM DEVICE WITH LOW FREQUENCY TONE RATED AT 520 HERTZ. EXTEND WIRING TO BUILDING FIRE ALARM SYSTEM.
5. PROVIDE A 120 VOLT, 20 AMP DUPLEX RECEPTACLE FOR A MICROWAVE ABOVE COUNTER.
6. PROVIDE A 120 VOLT, 20 AMP SIMPLEX RECEPTACLE MOUNTED IN BASE CABINETRY FOR A GARBAGE DISPOSAL. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. FIELD COORDINATE LOCATION OF CONTROL SWITCH TO BE MOUNTED ABOVE COUNTER ADJACENT TO SINK OR WITHIN BASE CABINETRY AS REQUIRED.
7. PROVIDE A 120/240 VOLT, 50 AMP SIMPLEX RECEPTACLE FOR A RANGE. ASSUME A NEMA 14-50 CONFIGURATION FOR BIDDING PURPOSES. VERIFY EXACT CONFIGURATION WITH EQUIPMENT SUPPLIER PRIOR TO ORDERING. FIELD COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
8. PROVIDE A 120 VOLT, 20 AMP DUPLEX RECEPTACLE FOR A CLOTHES WASHER. VERIFY THE FINAL MOUNTING HEIGHT WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
9. PROVIDE A 120/240V, 30 AMP RECEPTACLE FOR A DRYER. ASSUME A NEMA 14-30 CONFIGURATION FOR BIDDING PURPOSES. VERIFY EXACT CONFIGURATION WITH EQUIPMENT SUPPLIER PRIOR TO ORDERING. FIELD COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
10. PROVIDE NON-FUSED DISCONNECT SWITCH TO SERVE WATER HEATER (208V, 1PH). MAKE FINAL CONNECTIONS.
11. HVAC UNIT. PROVIDE POWER CONNECT TO NON-FUSED DISCONNECT SWITCH SERVING THE UNIT. MAKE FINAL CONNECTIONS TO CONDENSING UNIT OUTSIDE. (REFER TO PANEL SCHEDULE NOTES ON THIS SHEET FOR ADDITIONAL INFORMATION). CONTROL WIRING TO UNIT IS BY DIVISION 23. REFER TO MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.
12. RECEPTACLE BESIDE AND INSIDE MEDIA CENTER. BASIS OF DESIGN FOR MEDIA CENTER IS 30" X 14.5" LEGRAND ENPS350-NA-30" WITH TWO DEVICE SHELVES. CABINET SHALL BE AT LEAST 30" HIGH. MOUNT MEDIA CENTER TOP 72" A.F.F.
13. RECESSED BOX FOR CO-AXIAL CABLE AND DATA CONNECTION FOR TELEVISION. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION PRIOR TO ROUGH-IN.
14. CEILING MOUNTED SMOKE ALARM, 120 VOLT WITH BATTERY BACK-UP, BRK # 7010B OR EQUAL. CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. ALL ALARMS WITHIN AN APARTMENT UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.
15. PROVIDE AUXILIARY RELAY AT SMOKE ALARM TO INTERCONNECT WITH AND SHUTDOWN APARTMENT UNIT AIR HANDLER UPON ALARM. AUXILIARY RELAY SHALL BE BRK ELECTRONICS #RM4 OR EQUAL.
16. PROVIDE A 120 VOLT, 20 AMP DUPLEX RECEPTACLE FOR MICROWAVE MOUNTED INSIDE THE CABINET ABOVE RANGE FOR RANGE HOOD AND MICROWAVE (120V, 1PH). COORDINATE WITH CABINET INSTALLER PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION.
17. PROVIDE A 120 VOLT, 20 AMP SIMPLEX RECEPTACLE MOUNTED BELOW SINK, FLUSH IN BASE CABINETRY FOR A FUTURE DISHWASHER. FIELD COORDINATE EXACT LOCATION WITH ARCHITECT AND CASEWORK PROVIDER PRIOR TO ROUGH-IN.
18. PROVIDE FLUSH, CEILING-MOUNTED, SINGLE GANG BOX WITH SINGLE DATA JACK FOR FUTURE POE WIRELESS ACCESS POINT (ACCESS POINT BY OTHERS).
19. CEILING MOUNTED COMBO SMOKE/CO ALARM, 120 VOLT WITH BATTERY BACK-UP, BRK #SC7010B OR EQUAL. CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. ALL ALARMS WITHIN AN APARTMENT UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.
20. PROVIDE PS902 ACCESS CONTROLLED POWER SUPPLY, SURFACE MOUNTED ON WALL, NEAR CEILING, 120VAC POWER.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:
ENLARGED UNIT PLANS - 2 BEDROOM UNITS

STATE OF OHIO — GAVIN LIM — 3/29/22 — PROFESSIONAL ENGINEER

APRIL 4, 2022
DRAWN BY: **MC/NA** CHECKED BY: **NA/GL**
Proj. #20643
E402
PERMIT & BID SET

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
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PRINT DATE: 3/31/2022 10:45:33 AM
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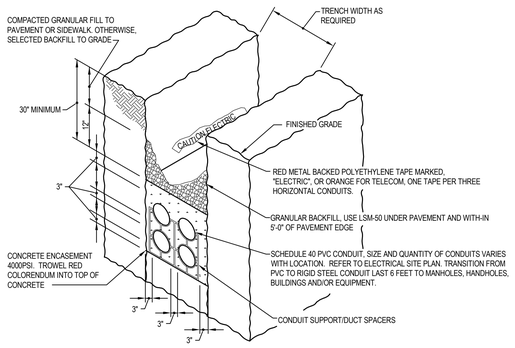

1 DETAIL - CONCRETE ENCASED DUCTBANK
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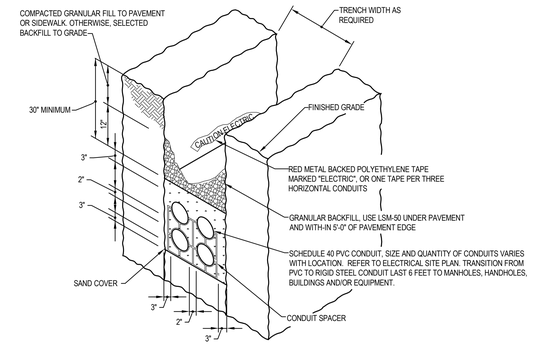
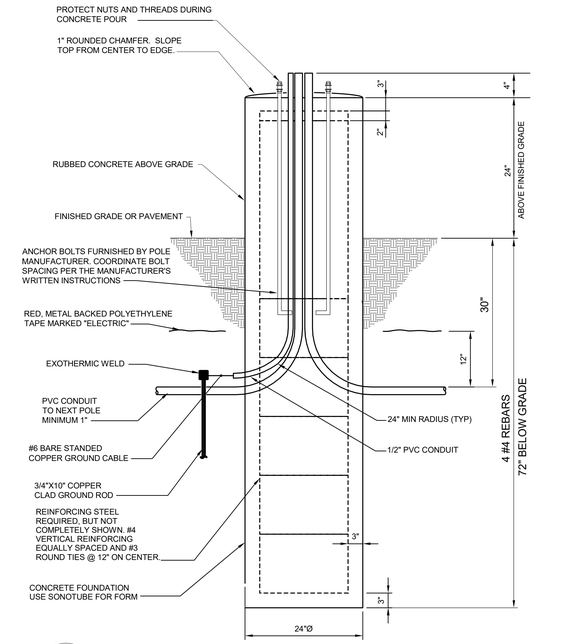
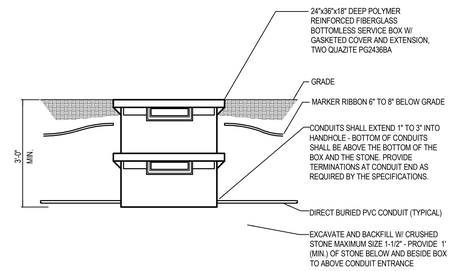


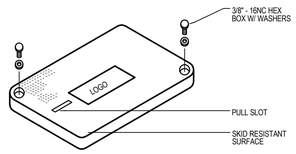
2 DETAIL - DIRECT BURIED CONDUIT
N.T.S.



3 DETAIL - SITE LIGHTING POLE FOUNDATION
N.T.S.



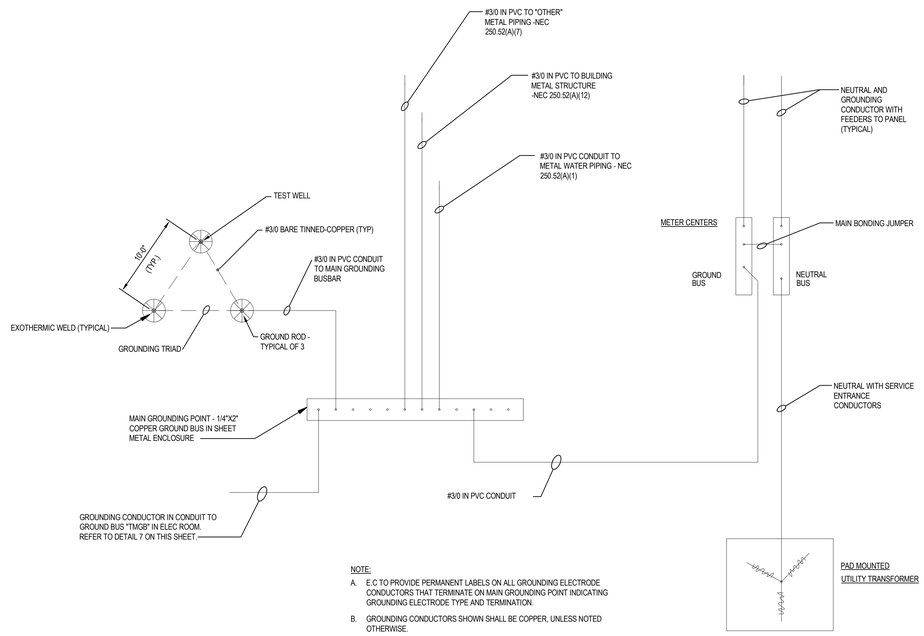
4 DETAIL - PVC HANDHOLE
N.T.S.



NOTES:

1. PROVIDE COVER(S) TO FIT HANDHOLES.
2. COVERS SHALL BE CONCRETE GRAY COLOR.
3. COVER SHALL BE DESIGNED FOR 5000 LBS LOAD OVER A 10"x10" AREA.
4. PROVIDE COVER WITH STANDARD LOGO FROM MANUFACTURER AS FOLLOWS:
   "ELECTRIC" - LIGHTING AND POWER WIRING UP TO 600 VOLTS.
   "TELEPHONE" - TELEPHONE CABLES
   "COMMUNICATION" - TELEVISION, DATA, INTERCOM AND OTHER LOW VOLTAGE COMMUNICATION SYSTEMS
   "TRAFFIC SIGNAL" - TRAFFIC CONTROL SIGNAL CABLES
   "HIGH VOLTAGE" - POWER CIRCUITS OVER 600V

5 DETAIL - PVC HANDHOLE COVER
N.T.S.

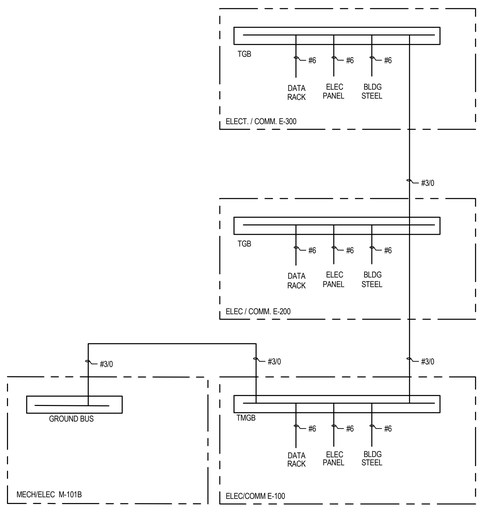


NOTE:

A. E.C TO PROVIDE PERMANENT LABELS ON ALL GROUNDING ELECTRODE CONDUCTORS THAT TERMINATE ON MAIN GROUNDING POINT INDICATING GROUNDING ELECTRODE TYPE AND TERMINATION.

B. GROUNDING CONDUCTORS SHOWN SHALL BE COPPER, UNLESS NOTED OTHERWISE.

6 DETAIL - TYPICAL ELECTRICAL SERVICE GROUNDING
N.T.S.



7 DETAIL - TELECOMMUNICATION GROUNDING RISER
N.T.S.

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMPETENCE. COLLABORATION.

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1581 W. BROAD STREET
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FOR
CMHA

MOODY•NOLAN
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DRAWING TITLE:

DETAILS -ELECTRICAL

STATE OF OHIO — GAVIN LIM — E-27148 — PROFESSIONAL ENGINEER — 3/29/22

APRIL 4, 2022

DRAWN BY: **MC/IA** | CHECKED BY: **NA/GL**

Proj. #20643

E501

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FILE INFO: C:\Users\mcroquet\Documents\20643 Harriets Hope FSH_MEP -v21_Monique.Caldwell.rvt

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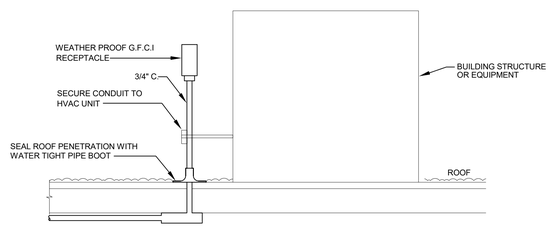
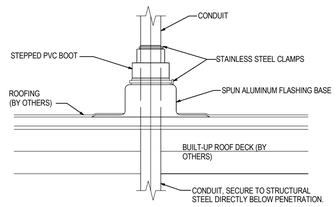
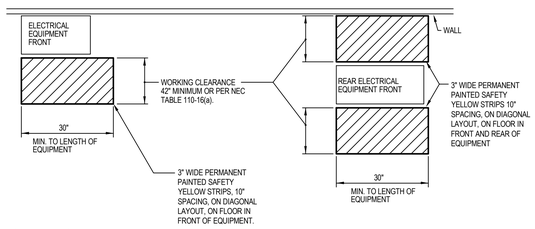


1 DETAIL - ROOFTOP RECEPTACLE
N.T.S.



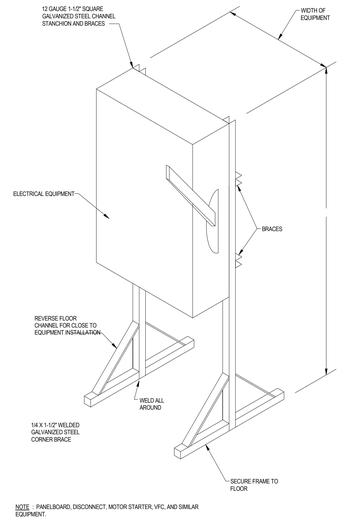
2 DETAIL - CONDUIT ROOF PENETRATION
N.T.S.



NOTES:

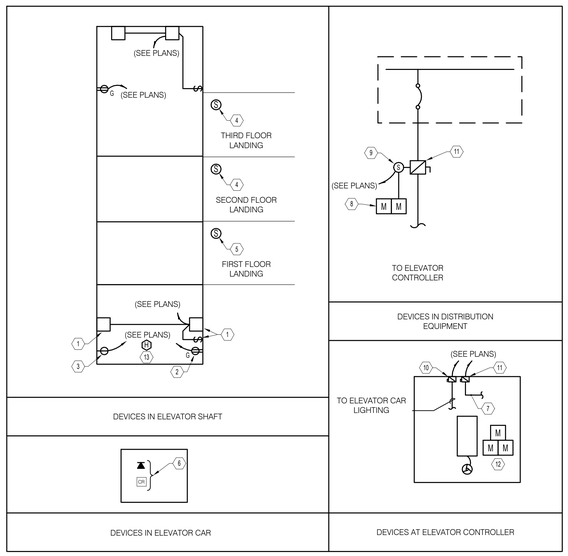
1. PAINTED AREAS (DENOTING NEC "WORKING CLEARANCE") REQUIRED IN MECHANICAL ROOMS, CLOSETS AND OTHER AREAS AS SHOWN ON THE DRAWINGS OR IN THE AREAS REQUESTED BY THE ENGINEER.
2. PAINTED AREAS NOT TO BE PROVIDED IN CORRIDORS, OFFICES AND FINISHED ROOMS.
3. PAINTING TO BE PROVIDED AS SOON AS FLOOR INSTALLATION ALLOWS. AREAS ARE TO BE RE-PAINTED BEFORE OCCUPANCY.
4. PAINT SHALL BE GLIDDEN URETHANE GLOSS ENAMEL, #6000 SERIES OR APPROVED EQUAL.
5. COMPLY WITH NEC ARTICLE 110.26

3 DETAIL - ELECTRICAL WORKING CLEARANCE
N.T.S.



NOTE : PANELBOARD, DISCONNECT, MOTOR STARTER, VFC, AND SIMILAR EQUIPMENT.

4 DETAIL - FREE STANDING MOUNTED EQUIPMENT
N.T.S.



DETAIL CODED NOTES:

1. ELEVATOR PIT LIGHTING FIXTURE AND WEATHERPROOF SWITCH.
2. DUPLEX GFCI OUTLET IN PIT INSTALLED AT 54" AFF FOR MAINTENANCE PURPOSES. PROVIDE WEATHERPROOF WHILE IN USE COVER.
3. SIMPLEX NON-GFCI RECEPTACLE AT 54" AFF FOR PIT SUMP PUMP. PROVIDE WEATHERPROOF WHILE IN USE COVER.
4. SMOKE-DETECTOR IN ELEVATOR LOBBY TO INITIATE ELEVATOR RECALL TO PRIMARY FLOOR. DETECTOR SHALL ACTIVATE FIREMAN'S HELMET AND AUDIBLE SIGNAL IN ELEVATOR CAR. SMOKE DETECTOR IN LOBBY TO INITIATE RECALL TO ALTERNATE FLOOR.
5. DETECTOR SHALL ACTIVATE FIREMAN'S HELMET AND AUDIBLE SIGNAL IN ELEVATOR CAR.
6. EMERGENCY PHONE AND CARD READER INSTALLED IN ELEVATOR CAR.
7. SHUNT TRIP OPERATOR ON FEEDER TO ELEVATOR CONTROLLER.
8. ADDRESSABLE FIRE ALARM MODULES FOR MONITORING SHUNT TRIP POWER AND INITIATING SHUNT TRIP OF ELEVATOR FEEDER. PROVIDE MODULES IN A JUNCTION BOX INSTALLED WITHIN 36" OF SHUNT TRIP OPERATOR.
9. SMOKE DETECTOR TO ACTIVATE FLASHING FIREMAN'S HELMET SIGNAL IN ELEVATOR CAR.
10. FUSED DISCONNECT TO ELEVATOR CAR LIGHTING.
11. ELEVATOR SAFETY SWITCH. PROVIDE CONTACT FOR INTEGRATION WITH AUTOMATIC BATTERY LOWERING DEVICE TO PREVENT ACTIVATION OF SYSTEM WHEN ELEVATOR IS DISCONNECTED FROM NORMAL POWER FOR MAINTENANCE. REFER TO SECTION 262817 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
12. PROVIDE ADDRESSABLE FIRE ALARM MODULES FOR THE FOLLOWING FUNCTIONS:
    - FIRE ALARM SIGNAL TO ELEVATOR TO RECALL ELEVATOR CAR TO PRIMARY FLOOR.
    - FIRE ALARM SIGNAL TO ELEVATOR TO RECALL ELEVATOR CAR TO ALTERNATE FLOOR.
    - FIRE ALARM SIGNAL TO CONTROL ELEVATOR CAR FIREMAN'S HAT INDICATOR.
13. PROVIDE HEAT DETECTOR ABOVE PIT FLOOR. LOCATE WITHIN 2' OF SPRINKLER HEAD.

5 DETAIL - ELEVATOR DETAIL
N.T.S.

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DRAWING TITLE:

DETAILS - ELECTRICAL

STATE OF OHIO 3/29/22 GAVIN LIM E-67778 PROFESSIONAL ENGINEER

APRIL 4, 2022

DRAWN BY: **MC/NA** | CHECKED BY: **NA/GL**

Proj. #20643

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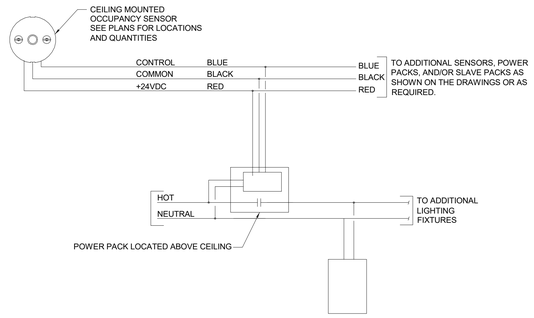
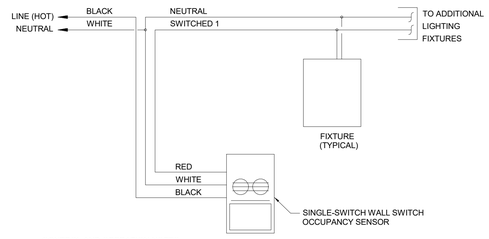


CONTROL AND OPERATION NOTES:

1. CONFIGURE OCCUPANCY SENSOR FOR AUTOMATIC ON, AUTOMATIC OFF OPERATION.
2. PROVIDE QUANTITY OF POWER PACKS AS REQUIRED TO SWITCH ALL LIGHTS IN ROOM AND AS REQUIRED FOR INDIVIDUAL CIRCUIT CONTROL.

1 DETAIL - CEILING MOUNTED OC SENSOR WIRING DIAGRAM
N.T.S.

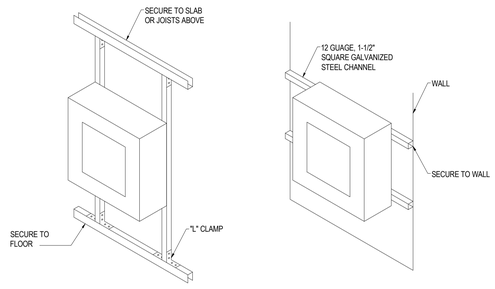


CONTROL AND OPERATION NOTES:

1. CONFIGURE OCCUPANCY SENSOR FOR MANUAL ON, AUTOMATIC OFF OPERATION.
2. AUTO OR MANUAL ON/ MANUAL OR AUTO OFF AFTER 15 MIN (UNO) OF NO ACTIVITY VIA WALLBOX SWITCH OC SENSOR

NOTES:
REFER TO LIGHTING CONTROL SCHEDULE FOR EXACT AMOUNT OF TIME FOR DIFFERENT AREAS.

2 DETAIL - WALL MOUNTED OCCUPANCY SENSOR
N.T.S.

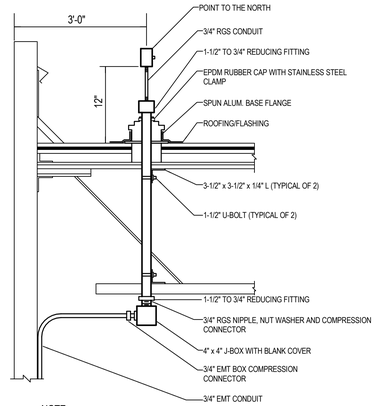


FOR DRYWALL INSTALLATION

FOR MASONRY OR CONCRETE WALL INSTALLATION

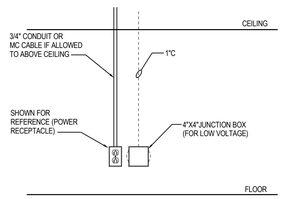
NOTE: PANELBOARD, DISCONNECT, MOTOR STARTER, VFC, AND SIMILAR EQUIPMENT.

3 DETAIL - TYPICAL WALL MOUNTED EQUIPMENT
N.T.S.



NOTE:
STRUCTURAL DETAIL SHOWN IS TO BE REPRESENTATIVE ONLY. REFER TO ARCHITECTURAL DRAWINGS AND STRUCTURAL DRAWINGS FOR ACTUAL CONDITIONS ON THIS PROJECT.

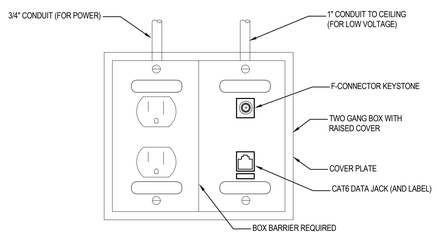
4 DETAIL - PHOTOCELL MOUNTING
N.T.S.



NOTES:

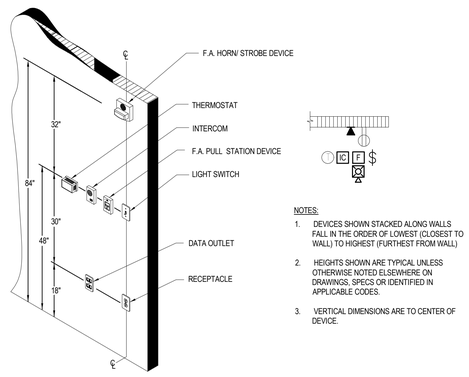
1. PLACE AT SAME HEIGHT AND ADJACENT TO DEVICES / RECEPTACLES SHOWN ADJACENT TO. (2" BETWEEN COVER PLATES)
2. PROVIDE SINGLE GANG OR 2-GANG DEVICE COVER AS REQUIRED BY OWNER PER DEVICE LOCATION.
3. WHERE INSTALLED IN AREA THAT HAS NO ACCESSIBLE CEILING, ROUTE CABLING CONTINUOUSLY IN CONDUIT DEVICE SIDE TO ABOVE ACCESSIBLE CEILING IN COMMON SPACE.
4. PROVIDE PULL STRING IN LOW VOLTAGE CONDUIT.

5 DETAIL - DATA LOW VOLTAGE OUTLETS
N.T.S.



NOTE: ALL 'T.V.' ROUGH-IN LOCATIONS FOR WALL MOUNT T.V.'s SHALL USE THIS COMBINATION BOX.
BASIS OF DESIGN: ARLINGTON TVBU505-1 OR APPROVED EQUAL

6 DETAIL - TV OUTLET - TYPICAL APARTMENT UNIT
N.T.S.



NOTES:

1. DEVICES SHOWN STACKED ALONG WALLS FALL IN THE ORDER OF LOWEST (CLOSEST TO WALL) TO HIGHEST (FURTHEST FROM WALL).
2. HEIGHTS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED ELSEWHERE ON DRAWINGS, SPECS OR IDENTIFIED IN APPLICABLE CODES.
3. VERTICAL DIMENSIONS ARE TO CENTER OF DEVICE.

7 DETAIL - WALL DEVICE ORIENTATION
N.T.S.

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

DETAILS - ELECTRICAL

STATE OF OHIO
3/29/22
GAVIN LIM
PROFESSIONAL ENGINEER

APRIL 4, 2022

DRAWN BY: **MC/NA** | CHECKED BY: **NA/GL**

Proj. #20643

E503

PERMIT & BID SET

PRINT DATE: 3/31/2022 10:45:35 AM
FILE INFO: C:\Users\monique2\Documents\20643 Hamels Hope PSH_MEP -21_Monique.Caldwell.rvt

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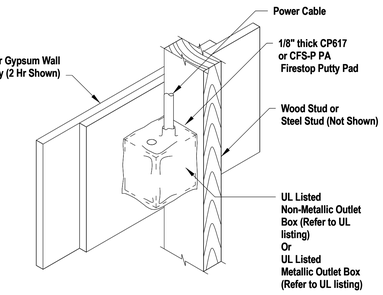
Wall Opening Protective Materials (CLIV, CLIV7)

Classified by Underwriters Laboratories, Inc. to UL 263 and CAN/ULC-S101



Hilti Firestop Systems

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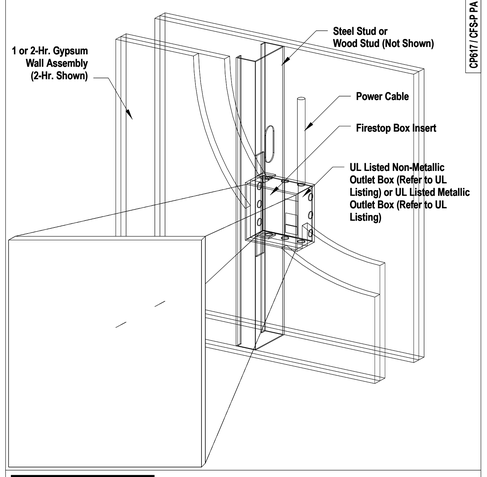
Wall Opening Protective Materials (CLIV, CLIV7)



Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. December 07, 2016

Wall Opening Protective Materials (CLIV, CLIV7)

CP 617 or CFS-P PA Firestop Putty Pads, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies as specified below. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back (unless otherwise indicated). Installation shall comply with the National Electrical Code (NFPA 70). Min 1/8 in. thick (CP 617) or min 0.2 in. (CFS-P PA) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and conduit fittings/connectors and to completely seal against the stud and gypsum board in the wall cavity unless otherwise noted below. When CFS-P PA is used, the putty pads may be installed with the release liner intact on the outside of the pad with the exception of any overlaps, in which case the liner is to be removed from the bottom layer at the overlap location. The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are specified below.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in., or max 4-3/8 by 4-7/8 by max 2-1/8 in., flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 hr fire rated V446 gypsum board/steel stud or U341 gypsum board/wood stud Wall and Partition Design No. in the Fire Resistance Directory. When U341 wall design is used, wall shall be sheathed with 5/8 in. gypsum board, and glass or mineral fiber batt insulation shall be installed in stud cavities in accordance with U341 design. Boxes may be installed back-to-back.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 and 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 0.8 pcf density fiberglass batt insulation is to be installed within the wall cavity required for 1 hr fire rated gypsum board wall assemblies and optional in 2 hr fire rated gypsum wallboard assemblies.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 and 2 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with steel or plastic cover plates. Boxes may be installed back to back.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 by 2-7/8 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in the 1 hr fire rated V446 gypsum board/steel stud or U341 gypsum board/wood stud Wall and Partition Design in the Fire Resistance Directory. When U341 wall design is used, wall shall be sheathed with 5/8 in. gypsum board, and glass or mineral fiber batt insulation shall be installed in stud cavities in accordance with U341 design. Outlet box secured to steel stud by means of fastening tab supplied with the outlet box. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with steel or plastic cover plates. Boxes may be installed back to back.

CP 617 Firestop Putty Pads, for use with max 2-1/4 by 3-3/4 by 2-3/4 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Pass and Seymore, Inc., and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 and 2 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box.Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with steel or plastic cover plates.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Allied Molded Products, Inc., made from fiber reinforced thermoplastic and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with plastic cover plates.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. December 07, 2016

Wall Opening Protective Materials (CLIV, CLIV7)

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 in. by 1-1/2 in. deep flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. The boxes are installed back to back with 5 in. by 4 in. UL Classified fire block, CP 657 or CFS-BL Firestop Block installed in the cavity between the two boxes.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 14 by 4 by max 2-1/2 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum board wall assemblies framed with min 5-1/2 in. deep wood or steel studs for 2 hr fire rated walls and min 3-1/2 in. deep wood or steel studs for 1 hr fire rated walls. Walls constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Stud cavity insulation is required and shall consist of min 5-1/2 in. (2 hr rated walls) or min 3-1/2 in. (1 hr rated walls) thick fiberglass (min 0.8 pcf) or mineral fiber (min 4 pcf). Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. When boxes are interconnected by means of electrical metallic tube (EMT) or conduit, a ball of putty pad material shall be used to completely plug the open end of each EMT or conduit within the box.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel or plastic cover plates for use in 1 and 2 hr fire rated gypsum board wall assemblies framed with min 5-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. When boxes are interconnected by means of electrical metallic tube (EMT) or conduit, a ball of putty pad material shall be used to completely plug the open end of each EMT or conduit within the outlet boxes. Metallic outlet boxes may be provided with steel attachment brackets which offset box min 1/4 in. from stud. When steel attachment brackets are used, putty pad to be affixed to the back and all four sides of the box.

CFS-P PA Moldable Putty Pads, for use with max 4-11/16 by 4-11/16 in. by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the Fire Resistance Directory. An additional 3/4 in. ball of putty pad material shall be used to plug the end of each electrical metallic tube or conduit at its connection to the box.

CFS-P PA Moldable Putty Pads, for use with max 4 by 4 by 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel or plastic cover plates in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the Fire Resistance Directory. An additional 3/4 in. ball of putty pad material shall be used to plug the end of each electrical metallic tube or conduit at its connection to the box.

CFS-P PA Moldable Putty Pads, for use with max 14-1/4 by 4-1/2 by 2-1/2 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the Fire Resistance Directory. An additional 3/4 in. ball of putty pad material shall be used to plug the end of each electrical metallic tube or conduit at its connection to the box.

HILTI Firestop Box Insert, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies as specified below. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back (unless otherwise indicated). Installation shall comply with the National Electrical Code (NFPA 70). The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are specified below.

HILTI Firestop Box Insert, for use with max 4-11/16 by 4-11/16 by 2-1/8 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 1 or 2 hr fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet boxes in 1 hr fire rated walls may be installed with plastic or steel cover plates. Outlet boxes in 2 hr fire rated walls shall be installed with steel cover plates. One 4-3/8 by 4-3/8 in. insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 4-3/8 x 4-3/8 in coverage.

HILTI Firestop Box Insert, for use with max 4 by 4 by 1-1/2 in. deep and 2-1/8 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 1 or 2 hr fire rated gypsum wallboard wall assemblies framed with min 3 1/2 in. deep steel or wood studs and constructed of materials and in the manner specified in the individual U400, V400 or U300 Series Wall and Partition Designs in the Fire Resistance Directory, as summarized in the Table below. One 3-11/16 by 3-3/4 in. insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 3-11/16 x 3-3/4 in coverage.

Hilti Firestop Systems

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Wall Opening Protective Materials (CLIV, CLIV7)

Box Size	Type of Box and Cover Plate	Hourly Rating	Wall Type
4 x 4 x 2-1/8 in deep	Metallic w/ steel cover plates	2-hour	U300, U400 or V400 - wood or steel studs
4 x 4 x 2-1/8 in deep	Metallic w/ plastic cover plates	1-hour	U300, U400 or V400 - wood or steel studs
4 x 4 x 1-1/2 in deep	Metallic w/ plastic cover plates	1-hour	U300 - wood studs

HILTI Firestop Box Insert, for use with max 2 1/8 x 4 x 2 1/8 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum wallboard wall assemblies framed with min 3 1/2 in. deep wood or steel studs and constructed of materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet boxes may be installed with steel cover plates. One 1-7/8 x 2-13/16 insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product.

HILTI Firestop Box Insert, for use with max 4-1/2 x 8-1/2 in. by 1-5/8 in. deep or max 3-3/4 x 5-1/2 in. by 2-1/2 in deep UL Listed Metallic Outlet Boxes without internal clamps in 1 hr or 2 hr fire rated gypsum wallboard wall assemblies framed with min 3 1/2 in. deep steel or wood studs and constructed of materials and in the manner specified in the individual U400, V400 or U300 Series Wall and Partition Designs in the Fire Resistance Directory, as summarized in the Table below. Outlet boxes installed with steel cover plates. Box inserts evenly spaced and adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product.

Box Size	Inserts Used	Fire Rating	Wall Type
4-1/2 x 8-1/2 x 1-5/8 in deep	Two 3-11/16 x 3-3/4 in. inserts **	2 hour	U300, U400 or V400 - wood or steel studs
3-3/4 x 5-1/2 x 2-1/2 in deep	One 3-11/16 x 3-3/4 in. insert and one 1-7/8 x 2-13/16 in. insert	1 hour	U300, U400, or V400 - wood or steel studs
** - Min 3/4 in. deep plaster rings installed over outlet box. After installation of gypsum board, nom 1/4 in. thickness of Hilti FS-ONE Sealant or FS-ONE MAX Intumescent Sealant, bearing the UL Classification Marking for Fill, Void or Cavity Materials, applied between the base layer of wallboard and the plaster ring.			

HILTI Firestop Box Insert , for use with 4-3/8 by 4-7/8 by 2-1/4 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. One 4-3/8 in. wide by 4-3/8 in. high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 4-3/8 in. by 4-3/8 in. coverage and adhered to the interior back wall of the outlet box. Outlet boxes installed with plastic or steel cover plates.

HILTI Firestop Box Insert, for use with 4-3/8 by 4-7/8 by 2-1/4 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. One 4-3/8 in. wide by 4-3/8 in. high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 4-3/8 in. by 4-3/8 in. coverage and adhered to the interior back wall of the outlet box. Outlet boxes installed with steel cover plates.

CP 617 or CFS-P PA Firestop Putty Pads and HILTI Firestop Box Inserts, for use with maximum 4 by 4 by 1-1/2 in. (102 by 102 by 38 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel or plastic faceplates in 1 or 2 hr fire rated gypsum board wall assemblies constructed with min 3-1/2 in. (89 mm) wide wood or steel studs. When both protective materials are used with outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the backs of the boxes are minimum 1/2 in. (13 mm) apart and provided that the boxes are not interconnected. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An insert pad shall be installed to completely cover the back inside surface of each outlet box.

Hilti Firestop Systems

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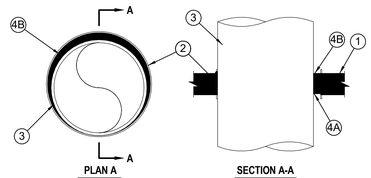
1 DETAIL - FIRE STOPPING MEMBRANE PENETRATION

N.T.S.

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

System No. C-AJ-1226

F Rating — 3 Hr
T Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/Sq Ft
L Rating At 400 F — 4 CFM/Sq Ft



PLAN A — SECTION A-A

1. FLOOR OR WALL ASSEMBLY — MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 32 IN.
2. METALLIC SLEEVE — NOM 32 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, EXTENDING A MINIMUM OF 1-1/2 IN. (MAX 3 IN.) ABOVE FLOOR OR BEYOND BOTH SURFACES OF WALL.
3. THROUGH-PENETRANT — ONE METALLIC PIPE, TUBE OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PENETRANT AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1-7/8 IN. PENETRANT MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PENETRANT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PENETRANTS MAY BE USED:
   A. STEEL PIPE — NOM 30 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE — NOM 30 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. COPPER PIPE — NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   D. COPPER TUBING — NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   E. CONDUIT — NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT.
   F. CONDUIT — NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT).
4. FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. PACKING MATERIAL — MIN 4 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR SLEEVE OR FROM BOTH SURFACES OF WALL OR SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B. FILL, VOID OR CAVITY MATERIAL — SEALANT - MIN 1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR SLEEVE OR WITH BOTH SURFACES OF WALL OR SLEEVE. AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PENETRANT AND CONCRETE OR SLEEVE, A MIN 1/4 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE OR SLEEVE/ PIPE PENETRANT INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL.
   HILTI INC — FS-ONE SEALANT
5. BASIS OF DESIGN: HILTI INC.

*BEARING THE UL CLASSIFICATION MARK

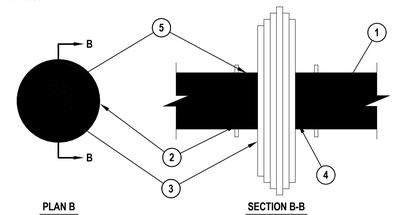
2 DETAIL - FIRESTOPPING REQUIREMENTS

N.T.S.

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

System No. C-AJ-3180

F Rating - 3 Hr
T Rating = 0 Hr



PLAN B — SECTION B-B

1. FLOOR OR WALL ASSEMBLY — MIN 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600 2400 KG/M3) CONCRETE FLOOR OR MIN 4-3/4 IN. (121 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 6 IN.(152 MM).
   SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. STEEL SLEEVE — NOM 6 IN. (152 MM) DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, EXTENDING A MINIMUM OF 1-1/2 IN. (MAX 3 IN.) ABOVE FLOOR OR BEYOND BOTH SURFACES OF WALL.
3. CABLES — AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN OPENING TO BE MAX 45 PERCENT OF THE AGGREGATE CROSS-SECTIONAL AREA OF THE OPENING. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF METALLIC CONDUCTOR OR FIBER OPTIC CABLE MAY BE USED:
   A. MAX 500 KCMIL SINGLE COPPER CONNECTOR POWER CABLE WITH THERMOPLASTIC INSULATION AND POLYVINYL CHLORIDE (PVC) JACKET.
   B. MAX 300 PAIR NO. 24 AWG COPPER CONDUCTOR TELECOMMUNICATION CABLES WITH POLYVINYL CHLORIDE (PVC) INSULATION AND JACKET MATERIAL.
   C. MAX 7/C COPPER CONDUCTOR NO. 12 AWG MULTICONDUCTOR POWER AND CONTROL CABLES WITH POLYVINYL CHLORIDE (PVC) OR CROSS-LINKED POLYETHYLENE (XLPE) INSULATION AND PVC JACKET.
   D. MULTIPLE FIBER OPTICAL COMMUNICATION CABLES JACKETED WITH PVC AND HAVING A MAX OUTSIDE DIAM OF 1/2 IN. (13 MM).
   E. MAX 3/C COPPER CONDUCTOR NO. 12 AWG WITH BARE ALUMINUM GROUND, POLYVINYL CHLORIDE (PVC) INSULATED STEEL, METAL-CLAD CABLE.
   F. MAX 3/C WITH GROUND 2/0 AWG COPPER CONDUCTOR SER CABLE WITH CROSS-LINKED POLYETHYLENE (XLPE) INSULATION AND POLYVINYL CHLORIDE (PVC) JACKET.
   G. RG/U COAXIAL CABLE WITH POLYETHYLENE (PE) INSULATION AND POLYVINYL CHLORIDE (PVC) JACKET HAVING A MAX OUTSIDE DIAMETER OF ½ IN. (13 MM)
   H. FIRE RESISTIVE CABLES* - MAX 1-1/4 IN. (32 MM) DIAM SINGLE CONDUCTOR OR MULTI CONDUCTOR TYPE MI CABLE. A MIN 1/8 IN. (3 MM) SEPARATION SHALL BE MAINTAINED BETWEEN MI CABLES AND ANY OTHER TYPES OF CABLE.
4. PACKING MATERIAL — MIN 4-1/4 IN. (108 MM) THICKNESS OF MIN 4 PCF (64 KG/M3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
5. FILL, VOID OR CAVITY MATERIAL — SEALANT - MIN 1/4 IN. (6.4 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL.
   HILTI INC — FS-ONE SEALANT.
6. BASIS OF DESIGN: HILTI INC.

*BEARING THE UL CLASSIFICATION MARK

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

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DRAWING TITLE:

DETAILS - ELECTRICAL

APRIL 4, 2022

DRAWN BY: **MC/NA** | CHECKED BY: **NA/GL**

Proj. #20643

E504

PERMIT & BID SET

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LUMINAIRE SCHEDULE

TYPE	DIMENSIONS	MOUNTING	CONSTRUCTION AND FINISH	DESCRIPTION AND OPTIONS	LAMPS	DRIVER(S)	VOLTAGE/LOAD	APPROVED MANUFACTURERS
C1	7" DIAMETER, 5/8" THICK	SURFACE INSTALLS ONTO FIRE RATED J-BOX	ALUMINUM HOUSING, PLASTIC FLANGE, INJECTION MOLDED WHITE, HIGH TRANSMITTANCE LENS STANDARD FINISH SELECTED BY ARCHITECT	LED DOWNLIGHT ROUND APERTURE WITH THE APPEARANCE OF A RECESSED DOWNLIGHT, DAMP AND WET LISTED. INCLUDED WITH STANDARD J-BOX	3000K 1000 LUMENS	ELECTRONIC TRIAC DIMMING	120V/ 14.2W	LIGHTOLIER SLIMSURFACE LED S7R930K10 JUNO SLIMFORM JSF 7IN 07LM 30K 90CRI 120 FRPC WH HALO SMD6R129WH
C1A	7" DIAMETER, 5/8" THICK	SURFACE INSTALLS ONTO FIRE RATED J-BOX	ALUMINUM HOUSING, PLASTIC FLANGE, INJECTION MOLDED WHITE, HIGH TRANSMITTANCE LENS STANDARD FINISH SELECTED BY ARCHITECT	LED DOWNLIGHT ROUND APERTURE WITH THE APPEARANCE OF A RECESSED DOWNLIGHT, DAMP AND WET LISTED. INCLUDED WITH STANDARD J-BOX	3000K 1000 LUMENS	ELECTRONIC 0-10V DIMMING	120V/ 14.2W	LIGHTOLIER SLIMSURFACE LED S7R930K10Z10U JUNO SLIMFORM JSF 7IN 07LM 30K 90CRI MVOLT ZT HALO SMD6R129WHE
C2	14" DIAMETER, 3-3/8" THICK	SURFACE INSTALLS ONTO FIRE RATED J-BOX	SOLID BRUSHED ALUMINUM HOUSING WITH MATTE WHITE ACRYLIC DIFFUSER	LED DOWNLIGHT ROUND APERTURE WITH THE APPEARANCE OF A RECESSED DOWNLIGHT, DAMP AND WET LISTED. INCLUDED WITH STANDARD J-BOX	3000K 1400 LUMENS	ELECTRONIC TRIAC DIMMING	120V/ 23W	LITHONIA LACUNA FMLACL 14 20830 BA BROWNLEE 2081-15-BN-C17-FL2-30K LUMENCIA LLDC336-30K-SN
C3	5" DIAMETER, 5/8" THICK	SURFACE INSTALLS ONTO FIRE RATED J-BOX	ALUMINUM HOUSING, PLASTIC FLANGE, INJECTION MOLDED WHITE, HIGH TRANSMITTANCE LENS STANDARD FINISH SELECTED BY ARCHITECT	LED DOWNLIGHT ROUND APERTURE WITH THE APPEARANCE OF A RECESSED DOWNLIGHT, WET & DAMP LISTED. INCLUDED WITH STANDARD J-BOX	3000K 650 LUMENS	ELECTRONIC TRIAC DIMMING	120V/ 9.5W	LIGHTOLIER SLIMSURFACE LED S5R930K7 JUNO SLIMFORM JSF 5IN 07LM 30K 90CRI 120 FRPC WH HALO SMD4R9SWH
C3E	5" DIAMETER, 5/8" THICK	SURFACE INSTALLS ONTO FIRE RATED J-BOX	ALUMINUM HOUSING, PLASTIC FLANGE, INJECTION MOLDED WHITE, HIGH TRANSMITTANCE LENS STANDARD FINISH SELECTED BY ARCHITECT	LED DOWNLIGHT WITH EMERGENCY ROUND APERTURE WITH THE APPEARANCE OF A RECESSED DOWNLIGHT, WET & DAMP LISTED. INCLUDED WITH STANDARD J-BOX.	3000K 650 LUMENS	ELECTRONIC TRIAC DIMMING	120V/ 9.5W	LIGHTOLIER SLIMSURFACE LED S5R930K7 JUNO SLIMFORM JSF 5IN 07LM 30K 90CRI 120 FRPC-WH-EL HALO SMD4R9SWH (REMOTE BATTERY)
C4	10" DIAMETER, 5/8" THICK	SURFACE INSTALLS ONTO FIRE RATED J-BOX	ALUMINUM HOUSING, PLASTIC FLANGE, INJECTION MOLDED WHITE, HIGH TRANSMITTANCE LENS STANDARD FINISH SELECTED BY ARCHITECT	LED DOWNLIGHT ROUND APERTURE WITH THE APPEARANCE OF A RECESSED DOWNLIGHT, DAMP AND WET LISTED. INCLUDED WITH STANDARD J-BOX (NOT WET LISTED)	3000K 2200 LUMENS	ELECTRONIC TRIAC DIMMING	120V/ 23.2W	LIGHTOLIER SLIMSURFACE LED S10R930K22 JUNO SLIMFORM JSF 11IN 13LM 30K 90CRI 120 FRPC WH HALO SMD12R209SWHE
C5	2' X 2' 2" DEEP	SURFACE INSTALLS ONTO FIRE RATED J-BOX	NARROW ALUMINUM HOUSING WITH CODE GAUGE STEEL BACK PLATE, SEAMLESS CORNERS, INTEGRAL GRID LOCKING CLIPS, CODE GAUGE GALVANIZED STEEL JUNCTION BOX	2' X 2' EDGE LIT LED FLAT PANEL INCLUDES LARGE J-BOX FOR INSTALLATION, DAMP LOCATION LISTED. IP5X RATED	3500K 4330 LUMENS	ELECTRONIC 0-10V DIMMING	120V/ 38.3W	METALUX 22FP4235C-FPXSURF22 LITHONIA CPANL 2X2 24/33/44LM 35K M4 DAYBRITE 2FPZ-4SL-835-2-DS-UNV-DIM
C6	1' X 4 2.22" DEEP	SURFACE INSTALLS ONTO FIRE RATED J-BOX	22 GAUGE COLD-ROLLED STEEL TYPE CHANNEL AND COVER, HIGH GLOSS, BAKED WHITE FINISH	LED STRIP LIGHT FROSTED DIFFUSE LENS, DAMP LOCATION LISTED	3500K 4000 LUMENS	ELECTRONIC 0-10V DIMMING	120V/ 35.3W	LITHONIA CSS-L48-4000L-MVOLT-35K-80CRI-MNLKJBOXCVRM12 DAYBRITE FSS-4-40L-835-UNV-DIM METALUX 4SNLED-LD5-41SL-SLW-L835-CD1-U
W2	25" X 9-3/8" 4" DEEP	WALL SURFACE MOUNT BOTTOM OF FIXTURE 4" ABOVE TOP OF MIRROR CAN BE INSTALLED AS AN UPLIGHT OR DOWNLIGHT	PAINTED SOLID ALUMINUM HOUSING, MATTE WHITE ACRYLIC PANEL AND ALUMINUM END CAPS, CLOSED END, STANDARD FINISH SELECTED BY ARCHITECT	LED VANITY WALL SCONCE WITH DECORATIVE TRIM BAR, UL, CUL AND DAMP LOCATION LISTED	3000K 2000 LUMENS	ELECTRONIC 0-10V DIMMING	UNV/ 20W	SHAPER 605-25-W-L3/830-UNV EVERGREEN GR-WALL-24"-16W-TW-A-MOD NO BANDS INDESSA-412-2LED9-WHT-NB-30K-24
W3	48" X 6-3/32" 3-7/8" DEEP	WALL SURFACE	DIE FORMED CODE GAUGE COLD ROLLED STEEL HOUSING AND END CAPS, BAKED WHITE ENAMEL END CAPS, BAKED ACRYLIC ENAMEL FINISH,	LED STAIR LUMINAIRE WITH INTEGRAL OCCUPANCY SENSOR AND BI-LEVEL OPERATION, IMPACT RESISTANT, ACRYLIC DIFFUSER, DIM TO 40% IN STANDBY MODE. DAMP LOCATION LISTED, INTEGRAL EMERGENCY BATTERY PACK	3500K 3800 LUMENS	100/40 STEP DIMMING (BI-LEVEL WHEN USED WITH SENSOR)	UNV/ 38W	DAY-BRITE SF4C38A40USZTEMLED METALUX 4SWLED-40SL-LW-UNV-L835-CD1-SVPD2-U LITHONIA WL4-40L-SLD-SP835-DIM50-E10WLCP
W4	16 3/8" X 7 1/4" 9" DEEP	WALL SURFACE THROUGH INTEGRAL BACK PLATE REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT	DIE CAST ALUMINUM ALLOY HOUSING AND BACK PLATE, HIGH RESISTANCE TO CORROSION STANDARD FINISH SELECTED BY ARCHITECT	LED EXTERIOR WALL SCONCE LOW PROFILE, FULL CUTOFF, TYPE 3 DISTRIBUTION, SINGLE FUSING	4000K 2944 LUMENS	ELECTRONIC 0-10V DIMMING	UNV/ 28W	GARDCO 101L-16L-530-NW-G1-3-UNV-DD-F1 McGRAW EDISON IST-SA1-A-740-U-T3-xx LITHONIA WDGE2 LED-P3-40K-80CRI-T3M-MVOLT-SRM
W4E	16 3/8" X 7 1/4" 9" DEEP	WALL SURFACE THROUGH INTEGRAL BACK PLATE REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT	DIE CAST ALUMINUM ALLOY HOUSING AND BACK PLATE, HIGH RESISTANCE TO CORROSION STANDARD FINISH SELECTED BY ARCHITECT	LED EXTERIOR WALL SCONCE LOW PROFILE, FULL CUTOFF, TYPE 3 DISTRIBUTION, SINGLE FUSING, WITH COLD WEATHER BATTERY PACK	4000K 2944 LUMENS	ELECTRONIC 0-10V DIMMING	UNV/ 28W	GARDCO 101L-16L-530-NW-G1-3-EBPC-UNV-DD-F1 McGRAW EDISON IST-SA1-A-740-U-T3-xx-CBP LITHONIA WDGE2 LED-P3-40K-80CRI-T3M-MVOLT-SRM-E20WC
W5	10.25" X 4.25" X 3.625"	WALL SURFACE	WHITE, COMPACT, LOW PROFILE, THERMOPLASTIC HOUSING, IMPACT-RESISTANT, SCRATCH RESISTANT AND CORROSION PROOF.	THERMOPLASTIC EMERGENCY LIGHT WITH SELF DIAGNOSTICS, SEALED NICKEL-CADMIUM BATTERY, 90 MINUTE CAPACITY	TWO 1.5W/3.6V WHITE LED	N/A	120V/ 3W	LITHONIA ELM2 LED SD CHLORIDE VLTU SURE-LITES SEL2SSD
W6	1' X 4 2.22" DEEP	WALL SURFACE	22 GAUGE COLD-ROLLED STEEL TYPE CHANNEL AND COVER, HIGH GLOSS, BAKED WHITE FINISH	LED STRIP LIGHT (ELEVATOR PIT) FROSTED DIFFUSE LENS, DAMP LOCATION LISTED	3500K 4000 LUMENS	ELECTRONIC 0-10V DIMMING	120V/ 35.3W	LITHONIA CSS-L48-4000L-MVOLT-35K-80CRI-MNLKJBOXCVRM12 DAYBRITE FSS-4-40L-835-BSN-LED METALUX 4SNLED-LD5-41SL-SLW-L835-CD1-U
R1	5" APERTURE, 19"L X 6.5"W 9" DEEP	RECESSED	IC RATED FIXTURE HOUSING, SUITABLE FOR USE IN FIRE RATED CEILING, CODE GAUGE STEEL, SEMI-SPECULAR CLEAR REFLECTOR	LED WALL WASH DOWNLIGHT ROUND APERTURE, DAMP LISTED	3000K 1700 LUMENS	ELECTRONIC 0-10V DIMMING	120V/ 16W	EDISON PRICE EPIC-CZS2-5WL-DMV-L17H-30K-120-COL 3G-DL45RWW-DIM W/ FIRE RATED FIXTURE COVER RAYON RPA6-16L-30-UNV-ID-50-IC-RFA-C-6RFO-S-S W/ FIRE RATED FIXTURE COVER
R2	5" APERTURE, 19"L X 6.5"W 9" DEEP	RECESSED	IC RATED FIXTURE HOUSING, SUITABLE FOR USE IN FIRE RATED CEILING, CODE GAUGE STEEL, SEMI-SPECULAR CLEAR REFLECTOR	LED DOWNLIGHT ROUND APERTURE, 40 DEGREE BEAM SPREAD, DAMP LISTED, PROVIDE REMOTE MOUNTED 10W EMERGENCY BATTERY PACK	3000K 1700 LUMENS	ELECTRONIC 0-10V DIMMING	120V/ 16W	EDISON PRICE EPIC-CZS2-5DL-40D-L17H-30K-120-COL 3G-DL45RF-15-S80-30K-90D-UNV -DIM W/ FIRE RATED FIXTURE COVER RAYON RPA6-16L-30-UNV-ID-50-IC-RFD-C-6RFO-S-S W/ FIRE RATED FIXTURE COVER
S1	7" DIAMETER, SPHERICAL	SUSPENDED	WHITE GLOBE GLASS DIFFUSER, SATIN NICKEL FINISH, METAL CANOPY	DECORATIVE PENDANT	A19 LED RETROFIT 3000K 800 LUMENS	N/A	120V/ <10W	AFX LRTP07MBSN
X1	11-3/4" x 7-5/8" 2" DEEP	UNIVERSAL SURFACE CEILING/WALL	WHITE, COMPACT, LOW PROFILE, THERMOPLASTIC HOUSING, IMPACT-RESISTANT, SCRATCH RESISTANT AND CORROSION PROOF.	LED EXIT SIGN (SINGLE FACE) RED LETTERS, UNIVERSAL, CHEVRON KNOCKOUTS, ARROW AS SHOWN ON DRAWINGS	INTEGRAL	ELECTRONIC	120V/ 1W	LITHONIA LQM S W 3 R 120/277 EL N CHLORIDE VERW SURE-LITES LPX7
X2	11-3/4" x 7-5/8" 2" DEEP	UNIVERSAL SURFACE CEILING/WALL	WHITE, COMPACT, LOW PROFILE, THERMOPLASTIC HOUSING, IMPACT-RESISTANT, SCRATCH RESISTANT AND CORROSION PROOF.	LED EXIT SIGN (DOUBLE FACE) RED LETTERS, UNIVERSAL, CHEVRON KNOCKOUTS, ARROW AS SHOWN ON DRAWINGS	INTEGRAL	ELECTRONIC	120V/ 1W	LITHONIA LQM S W 3 R 120/277 EL N CHLORIDE VERW SURE-LITES LPX7
B1	42" HEIGHT X 6" DIAMETER	GROUND MOUNTED ON JUNCTION BOX IN CONCRETE BASE	EXTRUDED ALUMINUM HOUSING WITH CAST BASE AND TOP, TGIC POLYESTER POWDER COAT PAINT FINISH STANDARD FINISH SELECTED BY ARCHITECT	SITE BOLLARD ROUND LED, 3G VIBRATION RATED, IK10 IMPACT RATING FOR HOUSING AND OPTIC ASSEMBLY, HIGH EFFICIENCY OPTICS, IDA CERTIFIED, BUG RATING B1-U0-G1, SYMMETRIC, TYPE 3 DISTRIBUTION	4000K 1000 LUMENS	ELECTRONIC 0-10V DIMMING	UNV/ 10W	MCGRAW-EDISION BRT6-A1-740DU-T3-42-BZ TARGETTI MBB-41-40-180-L-40-BZ PEMCO CAVALIER 15HQF1X16-U-4K-C-Z
P1	15-1/2" X 29"	PROVIDE 21' SQUARE STEEL POLE (SAME FINISH AS HOUSING)	DIE-CAST ALUMINUM HOUSING, EXTRUDED ALUMINUM DRIVER ENCLOSURE, POWDER COATED BRONZE FINISH	LED SITE AND AREA LIGHT LOW PROFILE, INDIVIDUAL OPTICS, TYPE III DISTRIBUTION WITH BACK SPILL ELIMINATOR OPTICS, WET LOCATION LISTED	4000K 17,450 LUMENS	ELECTRONIC 0-10V DIMMING, PROVIDE WITH IN-LINE FUSING	UNV/ 124W	GLEON-AF-01-LED-E1-SL3-BZ GARDCO PUREFORM P1S-P-A08-XX-T3M-BLC-AR1-UNV-BZ LITHONIA DSX1 LED - T3M-MVOLT-SPA-DDBXD
P2	15-1/2" X 29"	PROVIDE 21' SQUARE STEEL POLE (SAME FINISH AS HOUSING)	DIE-CAST ALUMINUM HOUSING, EXTRUDED ALUMINUM DRIVER ENCLOSURE, POWDER COATED BRONZE FINISH	LED SITE AND AREA LIGHT LOW PROFILE, INDIVIDUAL OPTICS, TYPE III DISTRIBUTION, WET LOCATION LISTED	4000K 17,450 LUMENS	ELECTRONIC 0-10V DIMMING, PROVIDE WITH IN-LINE FUSING	UNV/ 124W	GLEON-AF-01-LED-E1-SL3-BZ GARDCO PUREFORM P1S-P-A08-XX-T3M-BLC-AR1-UNV-BZ LITHONIA DSX1 LED - T3M-MVOLT-SPA-DDBXD
P3	15-1/2" X 29"	PROVIDE 21' SQUARE STEEL POLE (SAME FINISH AS HOUSING)	DIE-CAST ALUMINUM HOUSING, EXTRUDED ALUMINUM DRIVER ENCLOSURE, POWDER COATED BRONZE FINISH	DUAL-HEAD, LOW PROFILE, INDIVIDUAL OPTICS, TYPE III DISTRIBUTION WITH BACK SPILL ELIMINATOR OPTICS, WET LOCATION LISTED	4000K 17,450 LUMENS	ELECTRONIC 0-10V DIMMING, PROVIDE WITH IN-LINE FUSING	UNV/ 124W	GLEON-AF-01-LED-E1-SL3-BZ GARDCO PUREFORM P1S-P-A08-XX-T3M-BLC-AR1-UNV-BZ LITHONIA DSX1 LED - T3M-MVOLT-SPA-DDBXD

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

SCHEDULES - ELECTRICAL

STATE OF OHIO
3/29/22
GAVIN LIM
PROFESSIONAL ENGINEER

APRIL 4, 2022

DRAWN BY: **MC/NA** | CHECKED BY: **NA/GL**

Proj. #20643

E601

PERMIT & BID SET

ADVANCED ENGINEERING CONSULTANTS
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Tel: (614) 486-4778
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FILE INFO: C:\Users\monique\Documents\20643 Harriets Hope FSH_MEP -01_Monique.Caldwell.rvt

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Branch Panel: A1

Location: MECH/ELEC M-101B
Supply From: DPH
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 400 A

Notes:

CKT	Wire Size	Circuit Description	Trip	Brkr Opt	A	B	C	Brkr Opt	Trip	Circuit Description	Wire Size	CKT
1	12	LTG. - C-101, ST-200, ST201	20 A		0.51 4.00				45 A	AHU-4- - MECH/ELEC M-101B	6	2
3	12	LTG. - NORTH BUILDING	20 A			0.49 4.00						4
5	12	LTG. - SOUTH BUILDING	20 A				1.24 0.98		25 A	HP-4 - ROOF	10	6
7	12	LCP - MECH/ELEC M-101B	20 A		0.50 0.98							8
9	12	RCPT- MECH,STORGE & WORK	20 A			0.72 5.00			60 A	AHU-5 - MECH - M-101A	4	10
11	12	RCPT. - ADMIN AD-101	20 A				0.90 5.00					12
13	12	RCPT - MTNCE MT-101	20 A		0.90 1.66				30 A	HP-5 - ROOF	10	14
15	12	RCPT - PRINTER-WK-101	20 A			1.00 1.66						16
17	12	RCPT. - FRONT DESK FD-101	20 A				0.72 5.00		30 A	AHU-7 - MECH - M-101A	10	18
19	12	RCPT. - FRONT DESK FD-101	20 A		0.90 5.00							20
21	12	INTERCOM - ENTRY	20 A			0.10 1.52			30 A	HP-7 - ROOF	10	22
23	12	RCPT-STRGE S-101B, C-102	20 A				1.08 1.52					24
25	12	PRINTER - COMPUTER CP-101	20 A		1.00 5.60				60 A	AHU-8 - MECH - M-101A	4	26
27	12	RCPT - COMPUTER CP-101	20 A			0.54 5.60						28
29	12	RCPT - COMPUTER CP-101	20 A				0.36 2.36		25 A	AHU-8 - MECH - M-101A	10	30
31	12	EF-2,3; EF-4 - T-101A & B; S-101B	20 A		0.53 2.36							32
33	12	EWC - CORRIDOR C-102	20 A	GF		0.18 2.10			40 A	HP-8 - ROOF	8	34
35	12	RCPT - MTG RMS - MG-101A,B,C	20 A				1.08 2.10					36
37	12	RCPT. - MEETING MG-101D	20 A		0.72 1.51				20 A	EUH-4 - MECH/ELEC M-101B	12	38
39	12	RCPT. - MEETING MG-101D	20 A			0.72 1.51						40
41	12	RECEPT. - KITCHEN - CR-101	20 A				0.36 2.00		20 A	EUH-5 - VESTIBULE V-101	12	42
43	12	DISHWASHER- KITCH-CR-101	20 A	GF	0.83 2.00							44
45	12	GARBAGE DISPOSAL - CR-101	20 A	GF		0.83 2.00			30 A	EUH-2 - STAIR ST-101	10	46
47	12	REFRIGERATOR - CR-101	20 A	GF			0.90 2.00					48
49	12	MICROWAVE - CR-101	20 A	GF	1.00 1.50				20 A	WASHER - LAUNDRY L-101	12	50
51	12	RCPT-M-101A,S-101A, CR-101	20 A			0.90 2.50			30 A	DRYER - LAUNDRY L-101	10	52
53	12	FLOORBOX RECPT- CR-101	20 A				0.72 2.50					54
55	12	FLOORBOX RECPT- CR-101	20 A		0.72 0.19				20 A	LIGHTING - STAIR ST-101	12	56
57	12	RCPT- S-100,PA-100,CR-100	20 A			0.72 0.90			20 A	RCEPT- CORRIDOR, LAUNDRY	12	58
59	12	FLOORBOX RECPT- CR-100	20 A				0.72 0.54		20 A	RECEPT. - EXTERIOR	12	60
61	12	FLOORBOX RECPT- CR-100	20 A		0.72 0.60				20 A	LTG/INV-1A - C101, M-101B	12	62
63	12	LTG. - BUILDING EXTERIOR	20 A			0.62 0.86			20 A	DOOR PWR SUPPLY - RM. 101	12	64
65	10	LIGHTING - SITE	20 A				0.56 0.00		20 A	SPARE		66
67	10	LIGHTING - SITE	20 A		0.10 0.00				20 A	SPARE		68
69	12	LTG. - FACADE/ENTRY	20 A			0.05 0.00			20 A	SPARE		70
71		SPARE	20 A				0.00 0.00		20 A	SPARE		72
73		SPARE	20 A		0.00 0.00				20 A	SPARE		74
75		SPARE	20 A			0.00 0.00			20 A	SPARE		76
77		SPARE	20 A				0.00 0.00		20 A	SPARE		78
79		SPARE	20 A		0.00 0.00				20 A	SPARE		80
81		SPARE	20 A			0.00 0.00			20 A	SPARE		82
83		SPARE	20 A				0.00 0.00		20 A	SPARE		84
		Total Load:			33.53 kVA	33.87 kVA	32.21 kVA					
		Total Amps:			281 A	284 A	268 A					

Legend:

Connected Load:	Demand Load:	Demand Current:
98.6 kVA	94.7 kVA	263 A

Branch Panel: C2

Location: ELEC E-200
Supply From: DPH
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Wire Size	Circuit Description	Trip	Brkr Opt	A	B	C	Brkr Opt	Trip	Circuit Description	Wire Size	CKT
1	12	LIGHTING, INV-2 - C-200, E-200	20 A		0.83 4.00				45 A	AHU-9 - MECH M-200	6	2
3	12	RECEPTACLE - M-200	20 A			0.18 4.00						4
5	12	LTG. - M-200,L-200 & E-200	20 A				0.25 1.18		25 A	HP-9 - ROOF	10	6
7	12	RCPT - MECH & LAUNDRY L-200	20 A		0.36 1.18							8
9	12	RECEPTACLE - E-200	20 A			0.18 0.10			20 A	RCP-1 - MECH M-200	12	10
11	12	RECEPTACLE- CORRIDOR C-200	20 A				1.08 4.50		50 A	EWH-3 - MECH M-200	6	12
13	12	RECEPTACLE- CORRIDOR C-201	20 A		1.08 4.50							14
15	12	ACCESS PANEL - ELEC. E-200	20 A			0.18 4.50			50 A	EWH-3 - MECH M-200	6	16
17	12	WASHER - LAUNDRY L-200	20 A				1.50 4.50					18
19	12	TWO-WAY COMM. PANEL	20 A		0.50 0.10				20 A	EF-5 - MECH M-200	12	20
21	12	WASHER - LAUNDRY L-200	20 A			1.50 2.50			30 A	DRYER - LAUNDRY L-200	10	22
23		SPARE	20 A				0.00 2.50					24
25		SPARE	20 A		0.00 2.50				30 A	DRYER - LAUNDRY L-200	10	26
27		SPARE	20 A			0.00 2.50						28
29		SPARE	20 A				0.00 0.00		20 A	SPARE		30
31		SPARE	20 A		0.00 0.00				20 A	SPARE		32
33		SPARE	20 A			0.00 0.00			20 A	SPARE		34
35		SPARE	20 A				0.00 0.00		20 A	SPARE		36
37		SPARE	20 A		0.00 0.00				20 A	SPARE		38
39		SPARE	20 A			0.00 0.00			20 A	SPARE		40
41		SPARE	20 A				0.00 0.00		20 A	SPARE		42
		Total Load:			15.05 kVA	15.64 kVA	15.52 kVA					
		Total Amps:			125 A	131 A	130 A					

Legend:

Connected Load:	Demand Load:	Demand Current:
45.2 kVA	47.2 kVA	131 A

Branch Panel: D3

Location: ELEC E-300
Supply From: DPH
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Wire Size	Circuit Description	Trip	Brkr Opt	A	B	C	Brkr Opt	Trip	Circuit Description	Wire Size	CKT
1	12	LIGHTING, INV-3 - C-300, E-300	20 A		1.02 5.00				60 A	AHU-10 - MECH M-300	4	2
3	12	RECEPTACLE - MECH M-300	20 A			0.18 5.00						4
5	12	TWO-WAY COMM. PANEL	20 A				0.50 1.52		30 A	HP-10 - ROOF	10	6
7	12	LTG - M-300, L-300, EL-300,E-300	20 A		0.25 1.52							8
9	12	RECEPTACLE - ELEC E-300	20 A			0.18 2.50			30 A	DRYER - LAUNDRY L-300	12	10
11	12	RCPT - UTILITY, LAUNDRY L-300	20 A				0.36 2.50					12
13	12	SERVICE RCPT - ROOF (SOUTH)	20 A		0.90 0.50				20 A	EF-6 - UTILITY ROOM	12	14
15	12	RECEPT - CORRIDOR C-300	20 A			1.08 2.50			30 A	DRYER - LAUNDRY L-300	10	16
17	12	WASHER - LAUNDRY L-300	20 A				1.50 2.50					18
19	12	RECEPT - CORRIDOR C-301	20 A		1.08 1.00				20 A	RADON SYSTM - ROOF(NORTH)	12	20
21	12	ACCESS CNTRL PNL - E-300	20 A			0.18 0.00			20 A	SPARE		22
23	12	WASHER - LAUNDRY L-300	20 A				1.50 1.00		20 A	RADON SYSTM - ROOF(SOUTH)	12	24
25	12	SERVICE RCPT - ROOF (NORTH)	20 A		0.90 0.00				20 A	SPARE		26
27		SPARE	20 A			0.00 0.00			20 A	SPARE		28
29	12	RECEPTACLE - CORR. C-302	20 A				0.18 0.00		20 A	SPARE		30
31		SPARE	20 A		0.00 0.00				20 A	SPARE		32
33		SPARE	20 A			0.00 0.00			20 A	SPARE		34
35		SPARE	20 A				0.00 0.00		20 A	SPARE		36
37		SPARE	20 A		0.00 0.00				20 A	SPARE		38
39		SPARE	20 A			0.00 0.00			20 A	SPARE		40
41		SPARE	20 A				0.00 0.00		20 A	SPARE		42
		Total Load:			12.17 kVA	11.62 kVA	11.56 kVA					
		Total Amps:			102 A	97 A	96 A					

Legend:

Connected Load:	Demand Load:	Demand Current:
34.4 kVA	36.9 kVA	102 A

Branch Panel: B1

Location: ELEC E-100
Supply From: DPH
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Wire Size	Circuit Description	Trip	Brkr Opt	A	B	C	Brkr Opt	Trip	Circuit Description	Wire Size	CKT
1	12	LIGHTING, INV-1 - C-100, E-100	20 A		1.08 2.36				25 A	AHU-6- WATER - W-100	10	2
3	12	RCEPT - W-100, EL-100	20 A			0.36 2.36						4
5	12	RECEPT. - WATER - W-100	20 A				0.18 5.60		60 A	AHU-6- WATER - W-100	4	6
7	12	RECEPT. - ELEV. PIT	20 A		0.18 5.60							8
9	12	ELEV. CAB LIGHT & RECEPT.	20 A			1.00 2.12			40 A	HP-6 - ROOF	8	10
11	12	RECEPT. - ELEV. SUMP PUMP	20 A				1.00 2.12					12
13	12	RECEPT. - ELEC - E-100	20 A		0.18 3.00				30 A	EUH-1 - STAIR ST-100	10	14
15	12	RECEPT. - LAUNDRY - L-100	20 A			0.18 3.00						16
17	12	LIGHTING - STAIRS ST-100	20 A				0.19 1.51		20 A	EUH-3 - WATER - W-100	12	18
19	12	WASHER - LAUNDRY - L-100	20 A		1.50 1.51							20
21	12	RCPT - CORR. C-100, E-100	20 A			1.08 2.50			30 A	DRYER - LAUNDRY - L-100	10	22
23	12	ACCESS CNTROL PANL - E-100	20 A				0.36 2.50					24
25	12	SERVICE LTG. - ELEVATOR	20 A		0.14 1.80				20 A	EAST MOTORIZED GATE - SITE	6	26
27	12	AUTOMATIC DOOR - ENTRY	20 A			0.10 2.50			30 A	DRYER - LAUNDRY - L-100	10	28
29	12	WASHER - LAUNDRY - L-100	20 A				1.50 2.50					30
31	12	TWO-WAY COMM PANEL	20 A		0.50 0.00				20 A	SPARE		32
33		SPARE	20 A			0.00 1.80			20 A	WEST MOTORIZED GATE - SITE	6	34
35		SPARE	20 A				0.00 0.36		20 A	EMERGENCY PHONE - SITE	10	36
37		SPARE	20 A		0.00 0.00				20 A	SPARE		38
39		SPARE	20 A			0.00 0.00			20 A	SPARE		40
41		SPARE	20 A				0.00 0.00		20 A	SPARE		42
		Total Load:			17.16 kVA	16.50 kVA	17.54 kVA					
		Total Amps:			144 A	138 A	147 A					

Legend:

Connected Load:	Demand Load:	Demand Current:
50.2 kVA	52.9 kVA	147 A

Switchboard: DPH

Location: MECH/ELEC M-101B
Supply From:
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: M.L.O.
Mains Rating: 800 A

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	SPD	3	60 A	60 A	0.0 kVA	
2	PANEL A1 - FIRST FLOOR	3	400 A	400 A	99.6 kVA	
3	PANEL B1 - FIRST FLOOR	3	200 A	200 A	51.2 kVA	
4	PANEL C2 - 2ND FLOOR	3	200 A	200 A	46.2 kVA	
5	PANEL D3 - 3RD FLOOR	3	200 A	200 A	35.4 kVA	
6	ELEVATOR CONTROL PANEL - 30 HP	3	150 A	150 A	33.1 kVA	
7	SPACE	3	--	--	--	REFER TO ONE-LINE
8	SPACE	3	--	--	--	REFER TO ONE-LINE
9	SPACE	3	--	--	--	REFER TO ONE-LINE
10	SPACE	3	--	--	--	REFER TO ONE-LINE
				Total Conn. Load:	228.1 kVA	
				Total Amps:	633 A	

Conn. Load	Demand Load	Demand Current
228.1 kVA	201.5 kVA	559 A

EQUIPMENT STARTER / DISCONNECT SCHEDULE

EQUIPMENT ITEM	DESCRIPTION	NAMEPLATE RATING HP	FLA	WATTS	POWER VOLTS	Ø	AMPS	STARTER / DISCONNECT TYPE	STARTER SIZE	DISC. AMPS	FUSE SIZE	AUX. CONT. N.O	N.C	CONTROL DEVICES	NEMA ENCLOSURE	NOTES
AHU-1	AIR HANDLER, TYPE 1	1/3		8 kW	208	1	44.7	DISC.		60	45					TYPICAL FOR UNIT TYPES 1A1 &1B1
HP-1	HEAT PUMP UNIT, TYPE 1				208	1	11.8	DISC.		30	20				3R	TYPICAL FOR UNIT TYPES 1A1 &1B1
AHU-2	AIR HANDLER, TYPE 2	1/3		8 kW	208	1	44.7	DISC.		60	45					TYPICAL FOR UNIT TYPE 1B2
HP-2	HEAT PUMP UNIT, TYPE 2				208	1	14.2	DISC.		30	25				3R	TYPICAL FOR UNIT TYPE 1B2
AHU-3	AIR HANDLER, TYPE 3	1/3		10 kW	208	1	53.8	DISC.		60	60					TYPICAL FOR UNIT TYPES 2A3 & 2B3
HP-3	HEAT PUMP UNIT, TYPE 3				208	1	18.3	DISC.		30	30				3R	TYPICAL FOR UNIT TYPES 2A3 & 2B3
AHU-4	AIR HANDLER #4	1/3		8 kW	208	1	44.7	DISC.		60	45					
HP-4	HEAT PUMP UNIT #4				208	1	14.2	DISC.		30	25				3R	
AHU-5	AIR HANDLER #5	1/2		10 kW	208	1	53.8	DISC.		60	60					
HP-5	HEAT PUMP UNIT #5				208	1	20	DISC.		30	30				3R	
AHU-6	AIR HANDLER #6	3/4		15 kW	208	1	53.8	DISC.		60	60					PROVIDE TWO CIRCUITS TO SERVE: (1) FAN MOTOR + PRIMARY HEAT (2) SECONDARY HEAT
					208	1	22.7	DISC.		30	25					
HP-6	HEAT PUMP UNIT #6				208	1	25.2	DISC.		60	40				3R	
AHU-7	AIR HANDLER #7	1/3		10 kW	208	1	53.8	DISC.		60	60					
HP-7	HEAT PUMP UNIT #7				208	1	18.3	DISC.		30	30				3R	
AHU-8	AIR HANDLER #8	3/4		15 kW	208	1	53.8	DISC.		60	60					PROVIDE TWO CIRCUITS TO SERVE: (1) FAN MOTOR + PRIMARY HEAT (2) SECONDARY HEAT
					208	1	22.7	DISC.		30	25					
HP-8	HEAT PUMP UNIT #8				208	1	25.2	DISC.		60	40				3R	
AHU-9	AIR HANDLER #9	1/3		8 kW	208	1	44.7	DISC.		60	60					
HP-9	HEAT PUMP UNIT #9				208	1	14.2	DISC.		30	25				3R	
AHU-10	AIR HANDLER #10	1/3		10 kW	208	1	53.8	DISC.		60	60					
HP-10	HEAT PUMP UNIT #10				208	1	18.3	DISC.		30	30				3R	
EF-1	EXHAUST FAN, TYPE 1				120	1	0.56	PROVIDED W/ UNIT								TYPICAL FOR ALL UNIT TYPES. SEE MECHANICAL SCHEDULES FOR CONTROL REQUIREMENTS.
EF-2	EXHAUST FAN #2				120	1	0.56	PROVIDED W/ UNIT								SEE MECHANICAL SCHEDULES FOR DUAL LEVEL CONTROL REQUIREMENTS.
EF-3	EXHAUST FAN #3				120	1	0.56	PROVIDED W/ UNIT								SEE MECHANICAL SCHEDULES FOR DUAL LEVEL CONTROL REQUIREMENTS.
EF-4	EXHAUST FAN #4			6	120	1	0.05	PROVIDED W/ UNIT								CONTINUOUS OPERATION
EF-5	EXHAUST FAN #5				120	1	0.56	PROVIDED W/ UNIT								CONTINUOUS OPERATION
EF-6	EXHAUST FAN #6				120	1	0.56	PROVIDED W/ UNIT								CONTINUOUS OPERATION
EUH-1	ELECTRIC UNIT HEATER #1			4 kW	208	1	19.2	PROVIDED W/ UNIT								
EUH-2	ELECTRIC UNIT HEATER #2			4 kW	208	1	19.2	PROVIDED W/ UNIT								
EUH-3	ELECTRIC UNIT HEATER #3			3 kW	208	1	14.5	PROVIDED W/ UNIT								
EUH-4	ELECTRIC UNIT HEATER #4			3 kW	208	1	14.5	PROVIDED W/ UNIT								
EUH-5	ELECTRIC UNIT HEATER #5			4 kW	208	1	19.2	PROVIDED W/ UNIT								
RCP1	RECIRC PUMP AT EWH-3a/b	1/12			120	1		TOGGLE			N.F.					
SP1	SUMP PUMP AT ELEVATOR PIT	1/2			120	1		TOGGLE			N.F.					
EWH-1	ELECTRIC WATER HEATER, TYPE 1			4.5 kW	208	1	21.6	DISC.		30	N.F.					
EWH-2	ELECTRIC WATER HEATER, TYPE 2			4.5 kW	208	1	21.6	DISC.		30	N.F.					
EWH-3	ELECTRIC WATER HEATER, TYPE 3			9 kW	208	1	43.2	DISC.		60	N.F.					

EQUIPMENT STARTER / DISCONNECT SCHEDULE KEY :

COMB.	COMBINATION MAGNETIC ACROSS THE LINE STARTER AND DISCONNECT SWITCH
DISC.	DISCONNECT SWITCH
TOGGLE	HORSEPOWER RATED TOGGLE-TYPE SAFETY SWITCH (LIGHT SWITCH STYLE)
VFD	VARIABLE FREQUENCY DRIVE / SPEED CONTROLLER
N.F.	NON-FUSED
H-O-A	HAND / OFF / AUTO SELECTOR SWITCH

EQUIPMENT STARTER / DISCONNECT SCHEDULE GENERAL NOTES :

A. THE ELECTRICAL INFORMATION IN THE SCHEDULE (AMPS, FUSE SIZE, ETC.) CORRESPONDS TO THE BASIS-OF-DESIGN EQUIPMENT AND MAY CHANGE SLIGHTLY WHEN OTHER THAN BASIS-OF-DESIGN EQUIPMENT IS USED AND/OR WHEN ACTUAL MECHANICAL EQUIPMENT IS DELIVERED TO THE PROJECT SITE. MAKE MINOR ADJUSTMENTS TO MATCH NAMEPLATE DATA OF ACTUAL EQUIPMENT TO BE INSTALLED. DO NOT REDUCE CIRCUIT WIRE SIZES TO LESS THAN THE DESIGN VALUES. UPDATE RECORD DRAWINGS WITH ALL CHANGES.

GENERAL NOTES

A. BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER UNLESS EXPLICITLY NOTED OTHERWISE.

B. FEEDER AND BRANCH CIRCUIT CONDUCTOR SIZES SHALL BE ADJUSTED FOR VOLTAGE DROP BASED ON ACTUAL LENGTH OF CONDUCTORS TO BE INSTALLED. VOLTAGE DROP SHALL NOT EXCEED 2% FOR FEEDERS AND SHALL NOT EXCEED 3% FOR BRANCH CIRCUITS.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215

PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

SCHEDULES - ELECTRICAL

APRIL 4, 2022

DRAWN BY: **MC/NA** | CHECKED BY: **NA/GL**

Proj. #20643

E602

PERMIT & BID SET

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PRINT DATE: 3/31/2022 10:45:45 AM
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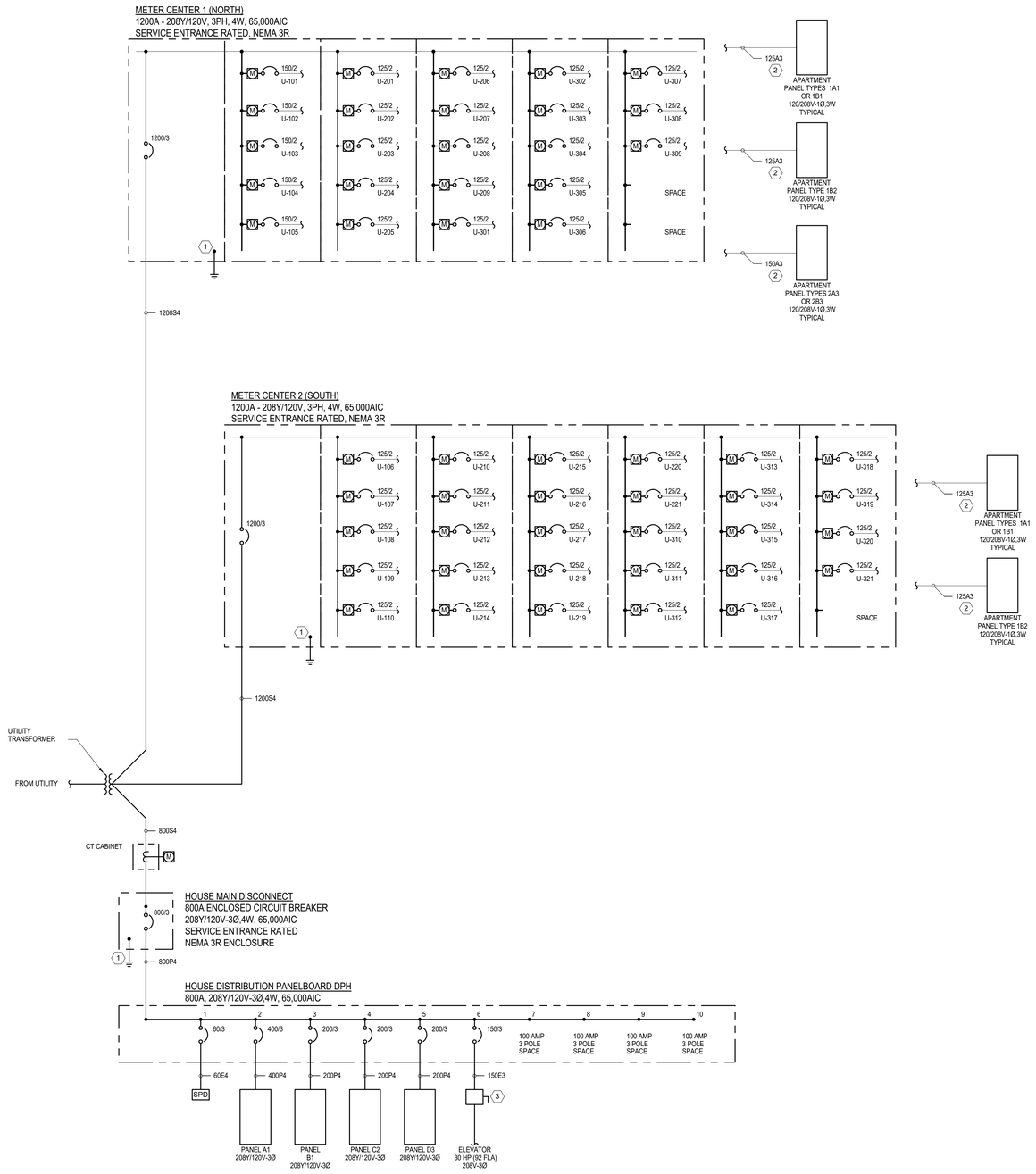
SERVICE	CONNECTED VOLT-AMPS	CONNECTED AMPS (@208V-3Ø)	NUMBER OF UNITS	NEC 220.84 DEMAND FACTOR	NEC DEMAND VOLT-AMPS	NEC DEMAND AMPS (@208V-3Ø)	SERVICE SIZE AMPS @ 208V-3Ø
METER CENTER 1 (NORTH)	815151.8	2262.6	23	0.36	293454.6	814.5	1200
METER CENTER 2 (SOUTH)	1003460.0	2785.3	29	0.33	331141.8	919.2	1200



1 ELECTRICAL RISER DIAGRAM
NTS

FEEDER SCHEDULE

TAG	CONDUCTOR MATERIAL	# OF SETS	PHASE WIRES QUANTITY - SIZE	NEUTRAL WIRE QUANTITY - SIZE	GROUND SIZE	CABLE OR CONDUIT	CONDUIT SIZE PER SET	MAXIMUM LENGTH IN FT	PURPOSE
125A3	ALUMINUM	1	2-1/0 AWG	1-1/0 AWG	4 AWG	SE CABLE OR MC CABLE	N/A	85	125 AMP, 120/208V-1Ø,3W APARTMENT SERVICE FEEDER
		1	2-2/0 AWG	1-2/0 AWG	3 AWG			110	
		1	2-3/0 AWG	1-3/0 AWG	2 AWG			135	
		1	2-4/0 AWG	1-4/0 AWG	1 AWG			155	
		1	2-250 KCMIL	1-250 KCMIL	1/0 AWG			185	
		1	2-300 KCMIL	1-300 KCMIL	2/0 AWG			210	
		1	2-350 KCMIL	1-350 KCMIL	3/0 AWG			235	
		1	2-400 KCMIL	1-400 KCMIL	3/0 AWG			255	
		1	2-500 KCMIL	1-500 AWG	4/0 AWG			300	
150A3	ALUMINUM	1	2-3/0 AWG	1-3/0 AWG	4 AWG	SE CABLE OR MC CABLE	N/A	120	150 AMP, 120/208V-1Ø,3W APARTMENT SERVICE FEEDER
		1	2-4/0 AWG	1-4/0 AWG	2 AWG			140	
		1	2-250 KCMIL	1-250 KCMIL	2 AWG			165	
		1	2-300 KCMIL	1-300 KCMIL	1 AWG			190	
		1	2-350 KCMIL	1-350 KCMIL	1/0 AWG			215	
		1	2-400 KCMIL	1-400 KCMIL	1/0 AWG			235	
		1	2-500 KCMIL	1-500 KCMIL	2/0 AWG			275	
60E4	COPPER	1	3-6 AWG	1-6 AWG	10 AWG	CONDUIT	1"	N/A	3Ø,4W BRANCH CKT
20E3	COPPER	1	3-12 AWG	-	12 AWG	CONDUIT	1"	N/A	3Ø,3W EQUIPMENT
150E3	COPPER	1	3-1/0 AWG	-	6 AWG	CONDUIT	1-1/2"	N/A	
200P4	ALUMINUM	1	3-250 KCMIL	1-250 KCMIL	4 AWG	MC CABLE	N/A	N/A	3Ø,4W PANEL FEEDER
400P4	ALUMINUM	1	3-750 KCMIL	1-750 KCMIL	3/0 AWG	MC CABLE	N/A	N/A	
800P4	ALUMINUM	2	3-750 KCMIL	1-750 KCMIL	3/0 AWG	MC CABLE	N/A	N/A	
800S4	ALUMINUM	2	3-750 KCMIL	1-750 KCMIL	-	CONDUIT	4"	N/A	3Ø,4W SERVICE FEEDERS
1200S4	ALUMINUM	4	3-500 KCMIL	1-500 KCMIL	-	CONDUIT	4"	N/A	

FEEDER SCHEDULE NOTES:

1. APARTMENT SERVICE FEEDERS SHALL BE SELECTED FROM THE OPTIONS LISTED ABOVE BASED ON THE MAXIMUM LENGTH OF THE FEEDER SERVING EACH UNIT.
2. APARTMENT SERVICE FEEDERS SHOWN ABOVE ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AT THE DESIGN LOAD PER ASHRAE 90.1, PARAGRAPH 8.4.1.1.
3. APARTMENT SERVICE GROUND CONDUCTOR SIZES SHOWN ABOVE ARE PROPORTIONALLY INCREASED PER NEC 250.122(B).
4. CONDUIT SIZES SHOWN ARE BASED ON EMT TYPE, AND CONDUCTORS WITH THWN, THWN, OR XHHW INSULATION. COMPLY WITH NEC FILL RATIOS IF ANY OTHER TYPE COMBINATIONS ARE USED.

EQUIPMENT SHORT-CIRCUIT (AIC) SCHEDULE

EQUIPMENT TAG	AVAILABLE SHORT-CIRCUIT CURRENT (AMPS)	MINIMUM EQUIPMENT AIC RATING	REMARKS
UTILITY TFMR	49,567	65,000	1
HOUSE MAIN DISC.	37,843	65,000	---
DIST. PANEL DPH	37,652	65,000	---
PANEL A1	29,341	65,000	---
PANEL B1	9,927	22,000	---
PANEL C2	9,263	22,000	---
PANEL D3	8,764	22,000	---
ELEVATOR DISC.	8,647	10,000	2
METER CENTER 1	24,254	65,000	---
METER CENTER 2	39,946	65,000	---
APARTMENT PANEL	VARIES	10,000	3

REMARKS:

1. ASSUMED INFINITE PRIMARY, 1000KVA TRANSFORMER, 5.6%Z
2. ELEVATOR DISCONNECT PROVIDED WITH CURRENT LIMITING FUSES TO LIMIT AVAILABLE FAULT TO LESS THAN 5000 AMPS.
3. APARTMENT PANELS TO BE SERIES RATED WITH UPSTREAM BREAKER IN METER CENTER. SEE GENERAL NOTES, THIS SHEET FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER OR ALUMINUM ACCORDING TO THE FEEDER SCHEDULE. CONDUCTORS NOT EXPLICITLY SHOWN IN THE FEEDER SCHEDULE SHALL BE COPPER UNLESS NOTED OTHERWISE.

B. FEEDER AND BRANCH CIRCUIT CONDUCTOR SIZES SHALL BE ADJUSTED FOR VOLTAGE DROP BASED ON ACTUAL LENGTH OF CONDUCTORS TO BE INSTALLED. VOLTAGE DROP SHALL NOT EXCEED 2% FOR FEEDERS AND SHALL NOT EXCEED 3% FOR BRANCH CIRCUITS.

C. ALL UTILITY ROUGH-INS, EQUIPMENT PADS, CONDUITS, GROUNDING, LAYOUT, ACCESSIBILITY, METERING, ETC., SHALL COMPLY WITH UTILITY COMPANY'S REQUIREMENTS, ALL APPLICABLE CODES AND LOCAL AUTHORITY.

D. PROVIDE SERIES-COMBINATION RATED BREAKER PAIR (MODULAR METER CENTER BRANCH BREAKER TO TENANT LOAD CENTER MAIN BREAKER) TO ACHIEVE 10KAIC RATING AT TENANT PANEL.

CODED NOTES

1. REFER TO ELECTRICAL SERVICE GROUNDING DETAIL, SHEET E501.
2. FEEDER SIZES FOR TENANT PANELS SHALL BE SELECTED FROM THE AVAILABLE OPTIONS LISTED IN THE FEEDER SCHEDULE. REFER TO FEEDER SCHEDULE NOTES FOR ADDITIONAL REQUIREMENTS.
3. ELEVATOR SAFETY SWITCH WITH SHUNT-TRIP PROVISION. REFER TO SPECIFICATION SECTION 262817 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

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COMMUNITY. COMPETENCE. COLLABORATION.

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300 SPRUCE STREET
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DRAWING TITLE:

ELECTRICAL RISER DIAGRAM

APRIL 4, 2022

DRAWN BY: MC/NA | CHECKED BY: NA/GL

Proj. #20643

E701

PERMIT & BID SET

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ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	
(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
A	AMPERE
AC	ALTERNATING CURRENT OR AIR CONDITIONER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
ANNC	ANNUNCIATOR
AWG	AMERICAN WIRE GAUGE
BPS	BOLTED PRESSURE SWITCH
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
DC	DIRECT CURRENT
DP	DISTRIBUTION PANELBOARD
DTT	DOUBLE TWIN TUBE
EB	ELECTRONIC BALLAST
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMT	ELECTRICAL METAL TUBING
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FLA	FULL LOAD AMPS
G	GROUND
GC	GENERAL TRADES CONTRACTOR
GF	GROUND FAULT CIRCUIT INTERRUPTER
GEN	GENERATOR
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPC	HIGH PRESSURE CONTACT SWITCH
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INCD	INCANDESCENT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING OR LIGHT
LRA	LOCKED ROTOR AMPS
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MAIN SWITCHBOARD
MH	METAL HALIDE
MTS	MANUAL TRANSFER SWITCH
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NF	NON-FUSED
OCC	OCCUPANCY
PA	PUBLIC ADDRESS
POE	POWER OVER ETHERNET
PVC	POLYVINYL CHLORIDE (PLASTIC PIPE)
PWR	POWER
RECPT	RECEPTACLE
SCA	SHORT-CIRCUIT AMPS
STP	SHIELDED, TWISTED PAIR
TC	TIME CLOCK
TRT	TRIPLE TUBE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UTP	UNSHIELDED, TWISTED PAIR
V	VOLT
W	WATT
WAP	WIRELESS ACCESS POINT
WH	WATTHOUR
WP	WEATHERPROOF, NEMA 3R UNO
XFMR	TRANSFORMER
Z	IMPEDANCE
PH	PHASE

TECHNOLOGY SYMBOLS

NOTE: NOT ALL SYMBOLS MAY BE USED.	
	WALL MOUNTED PHONE OUTLET (50" AFF): 1-CAT5e, WHITE CABLE AND JACK
	WALL MOUNTED DATA / PHONE OUTLET (18" AFF): 1-CAT6 BLUE CABLE AND JACK (DATA); 1-CAT5e WHITE CABLE AND JACK (PHONE OR VOIP / DATA)
#	WALL MOUNTED DATA OUTLET (18" AFF): # = NUMBER OF CAT6, BLUE CABLES AND JACKS
C,F	CEILING OR FLOOR MOUNTED DATA OUTLET: (2) BLUE CAT6 CABLES AND JACKS. C=CEILING, F=FLOOR
	FLUSH CEILING MOUNTED SINGLE GANG BOX WITH SINGLE, BLUE, CAT6 CABLE AND JACK FOR FUTURE POE WIRELESS ACCESS POINT
TV	RECESSED DEEP CONNECTION BOX MOUNTED BEHIND TV LOCATION (ARLINGTON TVBUS05-1 OR APPROVED EQUAL) WITH PROVISIONS FOR ONE DUPLEX POWER RECEPTACLE; ONE BLUE, CAT6 CABLE AND JACK; ONE RG6 CABLE AND F CONNECTOR KEYSTONE
	WALL MOUNT, 26 R.U., SWING OUT EQUIPMENT CABINET. 50"H x 26"W x 22"D, 200 POUNDS CAPACITY. BASIS OF DESIGN: MIDDLE ATLANTIC CWR-26-22zz
	TELEPHONE TERMINAL BOARD/PLYWOOD BACKBOARD: REFER TO PLANS FOR ACTUAL LENGTHS
	30" x 14.5" STRUCTURED MEDIA CENTER WITH TWO DEVICE SHELVES AND INTERNAL DUPLEX POWER RECEPTACLE. BASIS OF DESIGN: LEGRAND ENP3050-NA-30

SECURITY SYMBOLS

NOTE: NOT ALL SYMBOLS MAY BE USED.	
	DOME TYPE CAMERA WITH IR ILLUMINATORS. CAT6 YELLOW CABLE AND JACK TO ELECTRIC / TELECOM. ROOM.
CR	CARD READER
DC	DOOR CONTACT SENSOR
ES	ELECTRIC STRIKE
PS	PS-902 ACCESS CONTROLLED DOOR POWER SUPPLY
RX	REQUEST EXIT
PT	POWER TRANSFER DEVICE, HINGE SIDE
*	PUSH BUTTON
EP	EMERGENCY BLUE PHONE. REFER TO SHEET ES101 FOR ADDITIONAL INFORMATION.

INTERCOM SYMBOLS

NOTE: NOT ALL SYMBOLS MAY BE USED.	
IC M	MASTER STATION. YELLOW CAT6 CABLE TO ELEC. / COMM. ROOM DATA CABINET PATCH PANEL. INCLUDE POE INJECTOR.
IC D,CR	DOOR STATION WITH CARD READER. YELLOW CAT6 CABLE TO ELEC. / COMM. ROOM DATA CABINET PATCH PANEL. INCLUDE POE INJECTOR AND DOOR RELEASE RELAY.

FIRE ALARM SYMBOLS

NOTE: NOT ALL SYMBOLS MAY BE USED.	
F	MANUAL PULL STATION (REFER TO DETAILS ON E503 FOR MOUNTING HEIGHTS)
H	HEAT DETECTOR
H	DUCT MOUNTED HEAT DETECTOR
S	SMOKE DETECTOR
S	DUCT MOUNTED SMOKE DETECTOR
	SPEAKER (REFER TO DETAILS ON E503 FOR MOUNTING HEIGHTS)
	SPEAKER WITH STROBE (REFER TO DETAILS ON E503 FOR MOUNTING HEIGHTS)
	HORN (REFER TO DETAILS ON E503 FOR MOUNTING HEIGHTS)
	HORN WITH STROBE (REFER TO DETAILS ON E503 FOR MOUNTING HEIGHTS)
	STROBE (REFER TO DETAILS ON E503 FOR MOUNTING HEIGHTS)
	WALL MOUNTED STROBE (REFER TO DETAILS ON E503 FOR MOUNTING HEIGHTS)
B	BELL, 120V
FS	WATER FLOW SWITCH BY DIVISION 21. DIVISION 28 TO PROVIDE ADDRESSABLE MODULE FOR MONITORING
TS	WATER TAMPER SWITCH BY DIVISION 21. DIVISION 28 TO PROVIDE ADDRESSABLE MODULE FOR MONITORING
PV	PIV VALVE BY DIVISION 21. DIVISION 28 TO PROVIDE ADDRESSABLE MODULE FOR MONITORING
XIO	ADDRESSIBLE INPUT-OUTPUT MODULE
IM	ISOLATION MODULE
X	CEILING MOUNTED SMOKE ALARM WITH BATTERY BACKUP; NONSYSTEM - FOR LOCAL DETECTION AND ALARM WITHIN APARTMENT UNITS: X = BLANK - SMOKE ALARM; X = CO - COMBINATION SMOKE AND CARBON MONOXIDE (CO) ALARM
DH	MAGNETIC DOOR HOLDER
	FIREMAN'S PHONE
	REMOTE INDICATOR STATION FOR DUCT SMOKE DETECTOR (REFER TO DETAILS ON E503 FOR MOUNTING HEIGHTS)
	WALL MOUNTED REMOTE INDICATOR STATION FOR DUCT (REFER TO DETAILS ON E503 FOR MOUNTING HEIGHTS)
	REMOTE INDICATOR TEST SWITCH
FS	FAN SHUT-DOWN RELAY
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
NAC	NOTIFICATION APPLIANCE CIRCUIT PANEL
ZCF	ELEVATOR LOBBY TWO WAY COMMUNICATION SYSTEM

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

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DRAWING TITLE:
GENERAL INFORMATION - SYSTEMS

APRIL 4, 2022

DRAWN BY: Author | CHECKED BY: Checker

Proj. #20643

T000

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STATE OF OHIO · GAVIN LIM · 3/29/22 · PROFESSIONAL ENGINEER

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PLAN LEVEL 01- FLOOR PLAN - SYSTEMS
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE MOUNTING HEIGHT AND FINAL LOCATIONSS OF ALL DEVICES AND EQUIPMENT WITH ARCHITECTURAL DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN.

B. AT ALL DATA OUTLETS, PROVIDE 4" JUNCTION BOX WITH SINGLE GANG MUD RING.

C. PROVIDE CAT5e, CAT6 AND RG6 COAX CABLING FROM EACH MEDIA CENTER BACK TO ELECTRICAL ROOM ON THIS FLOOR. COIL A MINIMUM OF 25' OF SERVICE LOOP PER CABLE IN THE ROOM FOR TERMINATION INTO WALL MOUNTED CABINET. COORDINATE EXACT REQUIREMENTS WITH OWNER AND VENDOR PRIOR TO ROUGH-IN.

D. SEE ENLARGED ELECTRICAL PLANS FOR DETAILS OF TELECOMMUNICATIONS AND ACCESS CONTROL REQUIREMENTS IN LIVING UNITS.

FIRE ALARM GENERAL NOTES

A. THE FIRE ALARM SYSTEM IS A DELEGATED DESIGN AND SHALL BE COMPLETED BY AN OHIO CERTIFIED FIRE ALARM SYSTEM DESIGNER. MINIMUM NICET LEVEL III.

B. THE FIRE ALARM SYSTEM DESIGNER SHALL PREPARE CONSTRUCTION DOCUMENTS AND FIRE ALARM SHOP DRAWINGS IN ACCORDANCE WITH OBC SECTIONS 106 AND 907 AND NFPA 72. THESE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO THE A/E FOR REVIEW AND APPROVAL PRIOR TO SUBMISSION TO THE AHJ.

C. REFER TO SPECIFICATION SECTION 28 31 00 - FIRE ALARM SYSTEM FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

D. FIRE ALARM SYSTEM EQUIPMENT, DEVICES AND NOTIFICATION APPLIANCES AS SHOWN ON THE "E" AND "T" SERIES SHEETS INDICATE GENERALIZED LOCATIONS AND GENERALIZED REQUIREMENTS ONLY. EXACT TYPES, LOCATIONS, QUANTITIES, SETTINGS, ETC., SHALL BE DETERMINED BY THE FIRE ALARM SYSTEM DESIGNER AND INDICATED ON THE FIRE ALARM SHOP DRAWINGS. COORDINATE EXACT LOCATIONS WITH FIRE ALARM SHOP DRAWINGS PRIOR TO ROUGH-IN.

E. INITIATING DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72, CHAPTER 17.

F. NOTIFICATION APPLIANCES SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72, CHAPTER 18.

G. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR INTERFACE REQUIREMENTS WITH THE FIRE SUPPRESSION (SPRINKLER) SYSTEM.

H. COORDINATE WITH MECHANICAL CONTRACTOR FOR INTERFACE REQUIREMENTS TO SHUTDOWN COMMON AREA HVAC EQUIPMENT UPON FIRE ALARM SYSTEM ACTIVATION.

CODED NOTES

1. PROVIDE 3/4" FIRE-RATED PLYWOOD FROM FLOOR TO CEILING FOR TELECOMMUNICATIONS EQUIPMENT MOUNTING. PLYWOOD SHALL BE PAINTED WITH A GRAY MARINE GRADE PAINT.
2. PROVIDE (3) 4" PVC RACEWAYS WITH PULLWIRE FROM TELECOMMUNICATIONS UTILITY PROVIDER POINT OF SERVICE TO UTILITY SERVICE ENTRANCE EQUIPMENT. COORDINATE WITH THE TELECOMMUNICATIONS UTILITY PROVIDED AND SITE CONTRACTOR TO DETERMINE POINT OF SERVICE AND CONDUIT PATHWAY FROM POINT OF SERVICE THROUGH THE SITE AND INTO ROOM E-100 PRIOR TO BEGINNING OF WORK.
3. PROVIDE TWO DEDICATED TELEPHONE LINES FOR THE ELEVATOR CAR TERMINATED AT THE ELEVATOR CONTROLLER PER ELEVATOR MANUFACTURER'S REQUIREMENTS. COORDINATE EXACT LOCATION ELEVATOR MANUFACTURER'S LAYOUT REQUIREMENTS PRIOR TO ROUGH-IN.
4. PROVIDE DATA OUTLET FOR INTERCOM DOOR STATION.
5. PROVIDE TWO-WAY COMMUNICATION MASTER STATION TO BE LOCATED ADJACENT TO FIRE ALARM ANNUNCIATOR PANEL. PROVIDE 1 PAIR VOICE (POTS) LINE TO 110 BLOCK IN ROOM E-100.
6. PROVIDE FIRE ALARM MODULE TO MONITOR LOSS OF COMMUNICATION OF TWO-WAY COMMUNICATION INTERCOM STATION.
7. PROVIDE HANDICAP PUSHBUTTON MOUNTED ON MULLION. COORDINATE EXACT REQUIREMENTS WITH APPROVED SHOP DRAWINGS.
8. PROVIDE DATA OUTLET FOR DESK MOUNTED INTERCOM MASTER STATION.
9. PROVIDE CARD READER AND ACCESS CONTROL DEVICES. REFER TO DETAIL 3/T501.
10. WALL MOUNT, 26 R.U., SWING OUT EQUIPMENT CABINET. 50"H x 26"W x 22"D, 200 POUNDS CAPACITY. BASIS OF DESIGN: MIDDLE ATLANTIC CWR-26-22zz. FOR PATCH PANELS AND OWNER'S NETWORK ELECTRONICS AND UPS.
11. PROVIDE 110 BLOCK WITH CROSS CONNECT FOR TELEPHONE SERVICE.
12. FIRE ALARM TWO-WAY COMMUNICATION INTERCOM STATION TO BE LOCATED ADJACENT TO THE ELEVATOR. REFER TO TWO-WAY COMMUNICATION DIAGRAM FOR ADDITIONAL REQUIREMENT.
13. PROVIDE TMGB. REFER TO DETAILS 4/T501.
14. TWO-WAY COMMUNICATION REMOTE POWER SUPPLY. PROVIDE FIRE ALARM MODULE TO MONITOR LOSS OF POWER. REFER TO TWO-WAY COMMUNICATION DIAGRAM FOR ADDITIONAL REQUIREMENTS
15. FIELD COORDINATE EXACT LOCATION OF OUTLET WITH OWNER'S IT REPRESENTATIVE PRIOR TO INSTALLATION.
16. AT CONTACTORS OPTION, CABLE TRAY (BASKET TYPE, 12" WIDE X 4" DEEP) MAY BE PROVIDED ABOVE CEILING FOR CORRIDOR FOR LOW VOLTAGE CABLING.
17. RESERVE THIS BACKBOARD SPACE FOR ACCESS CONTROL PANELS ON THE LEFT AND TAP-OFFS FOR CABLE TV ON THE RIGHT.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
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DRAWING TITLE:
LEVEL 01 - FLOOR PLAN - SYSTEMS

APRIL 4, 2022

DRAWN BY: **Author** CHECKED BY: **Checker**

Proj. #20643

T101

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1 **PLAN** LEVEL 02 - FLOOR PLAN - SYSTEMS
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE MOUNTING HEIGHT AND FINAL LOCATIONSS OF ALL DEVICES AND EQUIPMENT WITH ARCHITECTURAL DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN.

B. AT ALL DATA OUTLETS, PROVIDE 4" JUNCTION BOX WITH SINGLE GANG MUD RING.

C. PROVIDE CAT5e, CAT6 AND RG6 COAX CABLING FROM EACH MEDIA CENTER BACK TO ELECTRICAL ROOM ON THIS FLOOR. COIL A MINIMUM OF 25' OF SERVICE LOOP PER CABLE IN THE ROOM FOR TERMINATION INTO WALL MOUNTED CABINET. COORDINATE EXACT REQUIREMENTS WITH OWNER AND VENDOR PRIOR TO ROUGH-IN.

D. SEE ENLARGED ELECTRICAL PLANS FOR DETAILS OF TELECOMMUNICATIONS AND ACCESS CONTROL REQUIREMENTS IN LIVING UNITS.

FIRE ALARM GENERAL NOTES

A. THE FIRE ALARM SYSTEM IS A DELEGATED DESIGN AND SHALL BE COMPLETED BY AN OHIO CERTIFIED FIRE ALARM SYSTEM DESIGNER. MINIMUM NICET LEVEL III.

B. THE FIRE ALARM SYSTEM DESIGNER SHALL PREPARE CONSTRUCTION DOCUMENTS AND FIRE ALARM SHOP DRAWINGS IN ACCORDANCE WITH OBC SECTIONS 106 AND 907 AND NFPA 72. THESE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO THE A/E FOR REVIEW AND APPROVAL PRIOR TO SUBMISSION TO THE AHJ.

C. REFER TO SPECIFICATION SECTION 28 31 00 - FIRE ALARM SYSTEM FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

D. FIRE ALARM SYSTEM EQUIPMENT, DEVICES AND NOTIFICATION APPLIANCES AS SHOWN ON THE "E" AND "T" SERIES SHEETS INDICATE GENERALIZED LOCATIONS AND GENERALIZED REQUIREMENTS ONLY. EXACT TYPES, LOCATIONS, QUANTITIES, SETTINGS, ETC., SHALL BE DETERMINED BY THE FIRE ALARM SYSTEM DESIGNER AND INDICATED ON THE FIRE ALARM SHOP DRAWINGS. COORDINATE EXACT LOCATIONS WITH FIRE ALARM SHOP DRAWINGS PRIOR TO ROUGH-IN.

E. INITIATING DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72, CHAPTER 17.

F. NOTIFICATION APPLIANCES SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72, CHAPTER 18.

G. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR INTERFACE REQUIREMENTS WITH THE FIRE SUPPRESSION (SPRINKLER) SYSTEM.

H. COORDINATE WITH MECHANICAL CONTRACTOR FOR INTERFACE REQUIREMENTS TO SHUTDOWN COMMON AREA HVAC EQUIPMENT UPON FIRE ALARM SYSTEM ACTIVATION.

CODED NOTES

1. PROVIDE 3/4" FIRE-RATED PLYWOOD FROM FLOOR TO CEILING FOR OWNER FURNISHED TELECOMMUNICATIONS EQUIPMENT. PLYWOOD SHALL BE PAINTED WITH A GRAY MARINE GRADE PAINT.
2. PROVIDE (3) 4" PVC CONDUIT SLEEVES IN FLOOR FOR TELECOMMUNICATIONS RISERS.
3. FIRE ALARM TWO-WAY COMMUNICATION INTERCOM STATION TO BE LOCATED ADJACENT TO THE ELEVATOR. REFER TO TWO-WAY COMMUNICATION DIAGRAM FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE FIRE ALARM MODULE TO MONITOR LOSS OF COMMUNICATION OF TWO-WAY COMMUNICATION INTERCOM STATION .
5. PROVIDE TGB. REFER TO DETAILS 6/T501.
6. PROVIDE CARD READER AND ACCESS CONTROL DEVICES. REFER TO DETAIL 3/T501.
7. TWO-WAY COMMUNICATION REMOTE POWER SUPPLY. PROVIDE FIRE ALARM MODULE TO MONITOR LOSS OF POWER. REFER TO TWO-WAY COMMUNICATION DIAGRAM FOR ADDITIONAL REQUIREMENTS.
8. FIELD COORDINATE EXACT LOCATION OF OUTLET WITH OWNERS IT REPRESENTATIVE PRIOR TO INSTALLATION.
9. AT CONTACTORS OPTION, CABLE TRAY (BASKET TYPE, 12" WIDE X 4" DEEP) MAY BE PROVIDED ABOVE CEILING FOR CORRIDOR FOR LOW VOLTAGE CABLING.
10. WALL MOUNT, 26 R.U., SWING OUT EQUIPMENT CABINET. 50"H x 26"W x 22"D. 200 POUNDS CAPACITY. BASIS OF DESIGN: MIDDLE ATLANTIC CWR-26-22zz. FOR PATCH PANELS AND OWNER'S NETWORK ELECTRONICS AND UPS.
11. RESERVE THIS BACKBOARD SPACE FOR ACCESS CONTROL PANELS ON THE LEFT AND TAP-OFFS FOR CABLE TV ON THE RIGHT.
12. PROVIDE 110 BLOCK WITH CROSS CONNECT FOR TELEPHONE SERVICE.

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

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DRAWING TITLE:
LEVEL 02 - FLOOR PLAN - SYSTEMS

STATE OF OHIO 3/29/22 GAVIN LIM PROFESSIONAL ENGINEER

APRIL 4, 2022

DRAWN BY: **Author** CHECKED BY: **Checker**

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1 PLAN LEVEL 03 - FLOOR PLAN - SYSTEMS
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE MOUNTING HEIGHT AND FINAL LOCATIONSS OF ALL DEVICES AND EQUIPMENT WITH ARCHITECTURAL DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN.

B. AT ALL DATA OUTLETS, PROVIDE 4" JUNCTION BOX WITH SINGLE GANG MUD RING.

C. PROVIDE CAT5e, CAT6 AND RG6 COAX CABLING FROM EACH MEDIA CENTER BACK TO ELECTRICAL ROOM ON THIS FLOOR. COIL A MINIMUM OF 25' OF SERVICE LOOP PER CABLE IN THE ROOM FOR TERMINATION INTO WALL MOUNTED CABINET. COORDINATE EXACT REQUIREMENTS WITH OWNER AND VENDOR PRIOR TO ROUGH-IN.

D. SEE ENLARGED ELECTRICAL PLANS FOR DETAILS OF TELECOMMUNICATIONS AND ACCESS CONTROL REQUIREMENTS IN LIVING UNITS.

FIRE ALARM GENERAL NOTES

A. THE FIRE ALARM SYSTEM IS A DELEGATED DESIGN AND SHALL BE COMPLETED BY AN OHIO CERTIFIED FIRE ALARM SYSTEM DESIGNER, MINIMUM NICET LEVEL III.

B. THE FIRE ALARM SYSTEM DESIGNER SHALL PREPARE CONSTRUCTION DOCUMENTS AND FIRE ALARM SHOP DRAWINGS IN ACCORDANCE WITH OBC SECTIONS 106 AND 907 AND NFPA 72. THESE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO THE A/E FOR REVIEW AND APPROVAL PRIOR TO SUBMISSION TO THE AHJ.

C. REFER TO SPECIFICATION SECTION 28 31 00 - FIRE ALARM SYSTEM FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

D. FIRE ALARM SYSTEM EQUIPMENT, DEVICES AND NOTIFICATION APPLIANCES AS SHOWN ON THE "E" AND "T" SERIES SHEETS INDICATE GENERALIZED LOCATIONS AND GENERALIZED REQUIREMENTS ONLY. EXACT TYPES, LOCATIONS, QUANTITIES, SETTINGS, ETC., SHALL BE DETERMINED BY THE FIRE ALARM SYSTEM DESIGNER AND INDICATED ON THE FIRE ALARM SHOP DRAWINGS. COORDINATE EXACT LOCATIONS WITH FIRE ALARM SHOP DRAWINGS PRIOR TO ROUGH-IN.

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F. NOTIFICATION APPLIANCES SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72, CHAPTER 18.

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H. COORDINATE WITH MECHANICAL CONTRACTOR FOR INTERFACE REQUIREMENTS TO SHUTDOWN COMMON AREA HVAC EQUIPMENT UPON FIRE ALARM SYSTEM ACTIVATION.

CODED NOTES

1. PROVIDE 3/4" FIRE-RATED PLYWOOD FROM FLOOR TO CEILING FOR TELECOMMUNICATIONS EQUIPMENT MOUNTING. PLYWOOD SHALL BE PAINTED WITH A GRAY MARINE GRADE PAINT.
2. PROVIDE (2) 4" PVC CONDUIT SLEEVES FOR TELECOMMUNICATIONS RISER.
3. FIRE ALARM TWO-WAY COMMUNICATION INTERCOM STATION TO BE LOCATED ADJACENT TO THE ELEVATOR. REFER TO TWO-WAY COMMUNICATION DIAGRAM FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE FIRE ALARM MODULE TO MONITOR LOSS OF COMMUNICATION OF TWO-WAY COMMUNICATION INTERCOM STATION .
5. PROVIDE TGB. REFER TO DETAILS 6/T501.
6. TWO-WAY COMMUNICATION REMOTE POWER SUPPLY. PROVIDE FIRE ALARM MODULE TO MONITOR LOSS OF POWER. REFER TO TWO-WAY COMMUNICATION DIAGRAM FOR ADDITIONAL REQUIREMENTS.
7. FIRE ALARM DEVICES LOCATED IN ELEVATOR SHAFT. COORDINATE WITH THE FIRE PROTECTION CONTRACTOR AND MOUNT HEAT DETECTOR WITHIN 24" OF SPRINKLER HEAD.
8. PROVIDE CARD READER AND ASSOCIATED ACCESS CONTROL DEVICES. REFER TO DETAIL 3/T501.
9. FIELD COORDINATE EXACT LOCATION OF OUTLET WITH OWNER'S IT REPRESENTATIVE PRIOR TO INSTALLATION.
10. AT CONTACTORS OPTION, CABLE TRAY (BASKET TYPE, 12" WIDE X 4" DEEP) MAY BE PROVIDED ABOVE CEILING FOR CORRIDOR FOR LOW VOLTAGE CABLING.
11. WALL MOUNT, 26 R.U., SWING OUT EQUIPMENT CABINET. 50"H x 26"W x 22"D, 200 POUNDS CAPACITY. BASIS OF DESIGN: MIDDLE ATLANTIC CWR-26-22zz. FOR PATCH PANELS AND OWNER'S NETWORK ELECTRONICS AND UPS.
12. RESERVE THIS BACKBOARD SPACE FOR ACCESS CONTROL PANELS ON THE LEFT AND TAP-OFFS FOR CABLE TV ON THE RIGHT.
13. PROVIDE 110 BLOCK WITH CROSS CONNECT FOR TELEPHONE SERVICE.

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COLUMBUS METROPOLITAN HOUSING AUTHORITY
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DRAWING TITLE:
LEVEL 03 - FLOOR PLAN - SYSTEMS

STATE OF OHIO 3/29/22 GAVIN LIM E-72... PROFESSIONAL ENGINEER

APRIL 4, 2022

DRAWN BY: **Author** | CHECKED BY: **Checker**

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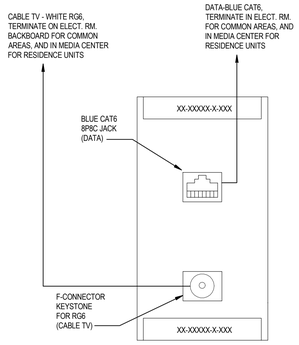
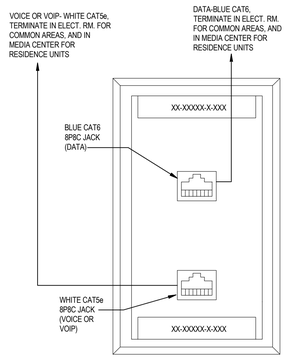
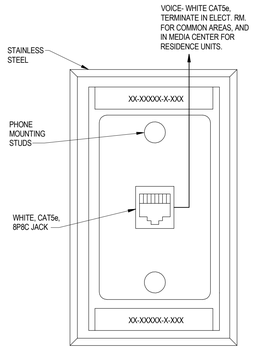


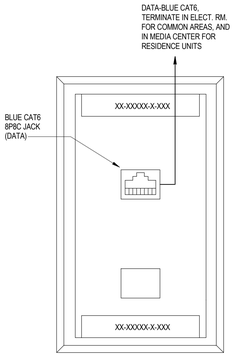
LOW VOLT FACEPLATE IN TV OUTLET



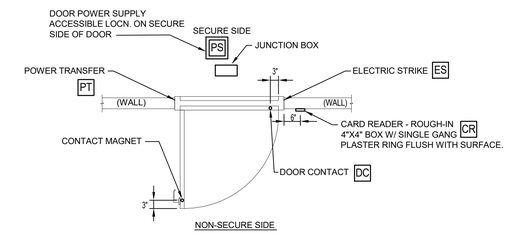
WALL MOUNTED DATA / PHONE OUTLET

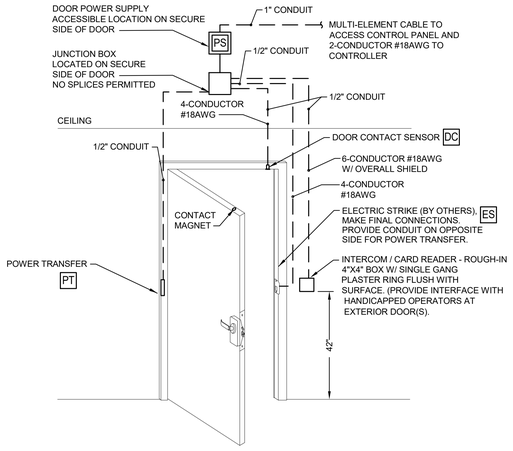


WALL MOUNTED TELEPHONE OUTLET



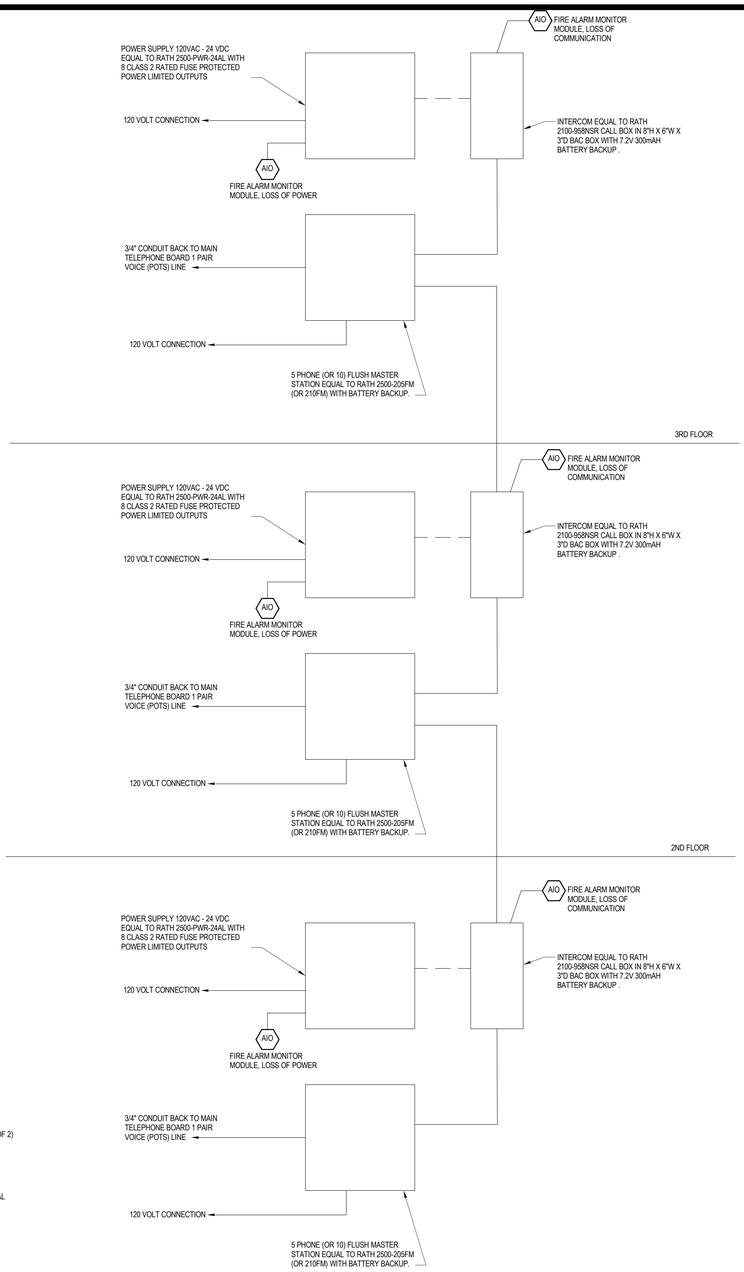
WALL MOUNTED DATA OUTLET

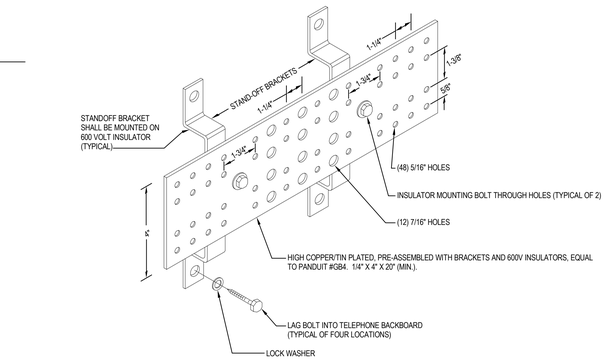




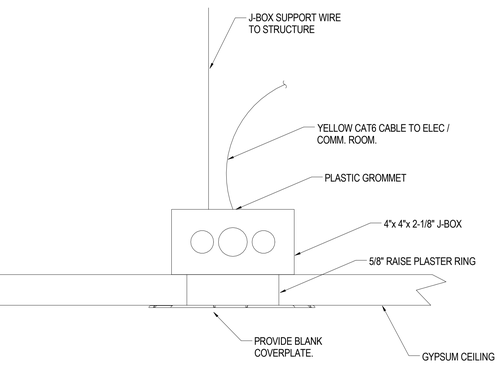
3 DETAIL - ACCESS CONTROL SCHEMATIC
N.T.S.

NOTE:
COORDINATE EXACT REQUIREMENTS WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE AND SPECIFICATIONS PRIOR TO ROUGH-IN.



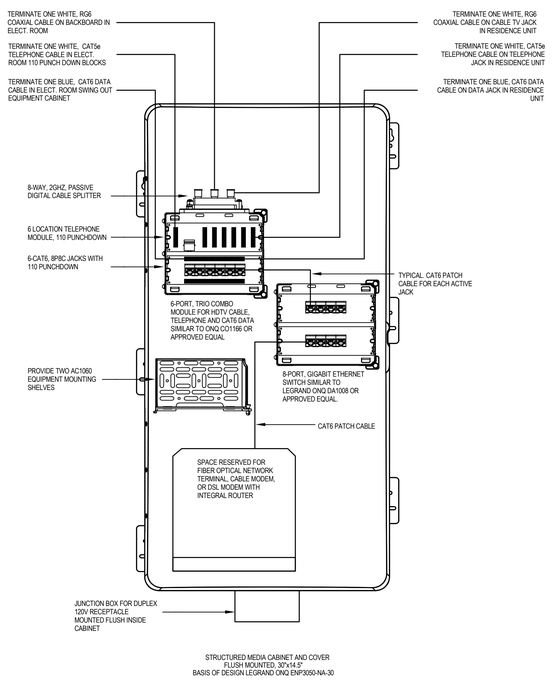


4 DETAIL - TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB)
N.T.S.

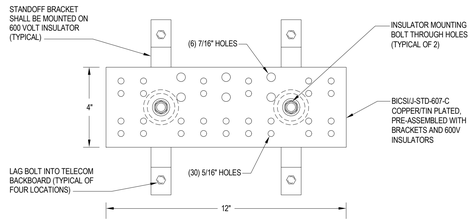


5 DETAIL - TWO-WAY COMMUNICATION DIAGRAM
N.T.S.

NOTE:
SUBJECT TO COMPLIANCE WITH REQUIREMENTS, THE CONTRACTOR MAY PROVIDE PRODUCT OF EQUAL MANUFACTURE AT HIS DISCRETION.



2 DETAIL - STRUCTURED MEDIA CABINET
N.T.S.



6 DETAIL - TELECOMMUNICATIONS GROUND BUSBAR (TGB)
N.T.S.

7 DETAIL - SECURITY CAMERA MOUNT
N.T.S.

ADVANCED ENGINEERING CONSULTANTS
Mechanical | Electrical | Plumbing | Fire Protection | Utilities
1405 Dublin Road
Columbus, Ohio 43215
Tel: (614) 486-4778
Fax: (614) 486-4082

#	DATE	CHANGE DESCRIPTION

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

HARRIET'S HOPE
1581 W. BROAD STREET
COLUMBUS, OH 43222
FOR
CMHA

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

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DETAILS - SYSTEMS

APRIL 4, 2022

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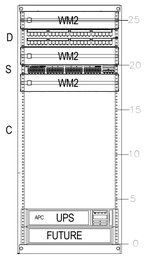
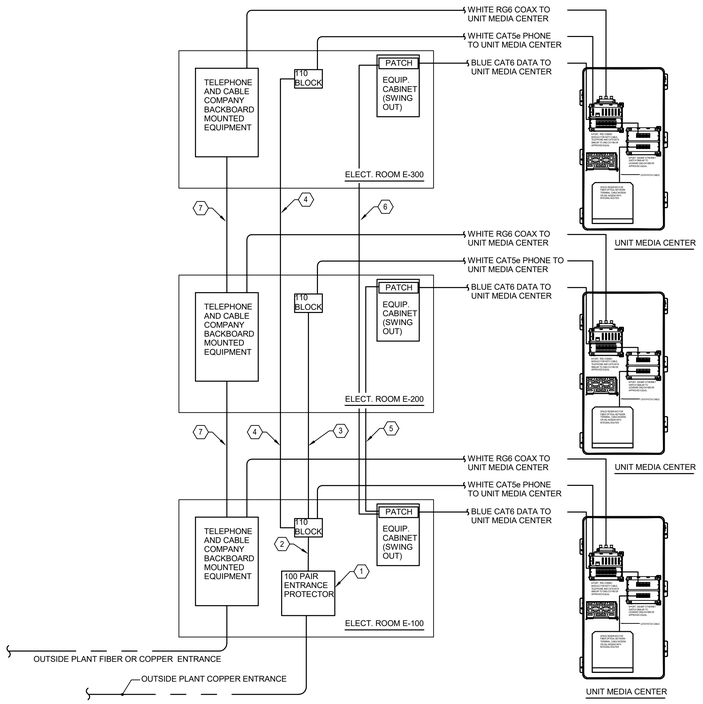


CABINET, PATCH PANEL AND WIRE MANAGEMENT DESCRIPTION TABLE

C	WALL MOUNT, 26 RACK UNIT, SWING OUT EQUIPMENT CABINET WITH PLEXIGLASS DOOR, 200 POUNDS CAPACITY, 50"H x 26"W x 22"D. BASIS OF DESIGN: MIDDLE ATLANTIC CWR-26-22ZZ OR APPROVED EQUAL.
D	2U, 48 PORT, PATCH PANEL AND CABLE MANAGEMENT BAR, FOR 8P8C, CAT 6 OR CAT6A, MODULAR JACK INSERTS. SIMILAR TO PANDUIT CP48BLY OR APPROVED EQUAL. (FOR COMMON AREA DATA, UNIT DATA AND SECURITY CAMERA JACKS)
WM2	2 RACK UNIT HORIZONTAL WIRE MANAGEMENT. SIMILAR TO CHATSWORTH EVOLUTION, #35441-XO2 OR APPROVED EQUAL.
S	1U, 48 PORT, POE GIGABIT NETWORK SWITCH SIMILAR TO CISCO CATALYST C9300-48H SERIES, 10GB COPPER UPLINKS, ONE 750W POWER SUPPLY.

1 DETAIL - RACK ELEVATION - WALL MOUNT SWING OUT EQUIPMENT CABINET
N.T.S.



2 DETAIL - TELECOMMUNICATIONS RISER DIAGRAM
N.T.S.

SHEET KEYNOTES:

1. PROVIDE 100 PAIR ENTRANCE PROTECTORS WITH SOLID STATE PROTECTOR MODULES AND 110 CONNECTIVITY.
2. PROVIDE 4-25 PAIR (100 PAIR TOTAL) CAT 5E BACKBONE CABLE. TERMINATE SOURCE ON ENTRANCE PROTECTOR AND OTHER END ON CAT5E, 110 CROSS CONNECT BLOCKS.
3. PROVIDE 2-25 PAIR CAT 5E BACKBONE CABLES. TERMINATE SOURCE ON ELECT. ROOM E-100, CAT5E 110 CROSS-CONNECT BLOCKS. ON THE OTHER END TERMINATE 50 PAIR ON ROOM E-200, CAT5E, 110 BLOCKS.
4. PROVIDE 2-25 PAIR CAT 5E BACKBONE CABLES. TERMINATE SOURCE ON ELECT. ROOM E-100, CAT5E 110 CROSS-CONNECT BLOCKS. ON THE OTHER END TERMINATE 50 PAIR ON ROOM E-300, CAT5E, 110 BLOCKS.
5. PROVIDE 2- CAT6A, ORANGE BACKBONE CABLES. TERMINATE SOURCE ON ELECT. ROOM E-100, CAT6A PATCH PANEL IN EQUIPMENT CABINET. ON THE OTHER END, TERMINATE CAT6A CABLE ON A CAT6A JACK IN ROOM E-200 EQUIPMENT CABINET PATCH PANEL.
6. PROVIDE 2- CAT6A, ORANGE BACKBONE CABLES. TERMINATE SOURCE ON ELECT. ROOM E-100, CAT6A PATCH PANEL IN EQUIPMENT CABINET. ON THE OTHER END, TERMINATE CAT6A CABLE ON A CAT6A JACK IN ROOM E-200 EQUIPMENT CABINET PATCH PANEL.
7. PROVIDE TWO, RG-11, COAXIAL BACKBONE CABLES TERMINATED IN F CONNECTORS. AMPLIFIERS AND TAPOFFS ARE BY THE CABLE TV COMPANY.

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