



ARCHITECTS

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Date: October 17, 2023

BULLETIN NO. 03

Project Name: Germantown Crossing

TC Project No.: 82A21

To: All Contractors

Please provide a proposal for changing the Contract Documents as noted herein. The proposal is due to the Associate within 10 days of issue. A limited extension of time may be granted in writing, for submitting a proposal at a specific future date and time at the sole discretion of the Associate. The estimated effect of the bulletin on current contract completion date is zero (0) days. If the impact to your work is different than zero (0) days, indicate the number of days in your proposal.

Contractor's proposal shall include:

1. Bulletin number
2. Change in contract amount
3. Change in contract time

Contractor's proposal to include itemized pricing including, but not limited to materials, labor, overhead and profit breakdowns as required in the Change Order Pricing Guidelines in the Contract Documents. Lump sum labor or material prices will not be accepted. If Subcontractor's or supplier's prices are included in the prime Contractor's proposal, provide a copy of their quotation.

If no response to a bulletin is received by the Associate by the proposal due date indicated above, the non-response will be determined that the Contract is not affected by the change, and any rights for increased compensation or time extension shall be deemed to have been waived.

For the Contractor's convenience, this Bulletin includes a signature space. If no change is affected by this Bulletin, signed and indicating such and returning this document to the Associate will serve as official notification. If a change is affected, the Associate must receive the contractor's detailed proposal within 10 days.

Please note that this is not a Change Order or authorization to proceed with the proposed changes.

Description of Proposed Change:

State the change in contract sum to reflect the following changes:

Architectural

A001	Revised to include site survey.
A002	Revised applicable codes to include 2017 International Energy Conservation Code and 2015 International Fuel Gas Code.
A101	Revised Room C105 to Storage.
A101A	Revised Room C105 to Storage.
A303	Revised to list 1/8" Sound Mat.
A401	Revised to list 1/8" Sound Mat.
A402	Revised to list 1/8" Sound Mat. Revised to call for 1/4" / 1'-0" slope @ flat roof.
A403	Revised to list 1/8" Sound Mat.
A404	Revised to list 1/8" Sound Mat. Added building envelope notes.
A506	Revised elevator shaft dimensions.
A507	Revised elevator shaft dimensions.
A602	Revised Door C105/1.
A603	Revised to call out through-wall flashing.
A701	Revised Room C105 to Storage.
A703	Revised Room C105 to Storage.

Civil

C200	Revised to coordinate w/ C300.
C300	(4) additional ADA spaces added.
C301	Revised to coordinate w/ C300.
C400	Revised to coordinate w/ C300.

Landscape

L100	Revised to coordinate parking lot with civil drawings.
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Structural

S100	Revised elevator shaft.
S101	Revised elevator shaft.
S102	Revised elevator shaft.
S200	Revised elevator sections.

Plumbing

P001	Deleted oil minder requirements from "Plumbing Equipment Schedule".
P302	Deleted oil minder requirements from "Elevator Sump Pup Detail".

Fire Suppression

FS101	Edited note for elevator shaft fire suppression requirements.
FS102	Edited note for elevator shaft fire suppression requirements.
FS103	Edited note for elevator shaft fire suppression requirements.

Mechanical

- H101 Deleted ECU-1, ACCU-1, and all refrigerant piping associated with units serving old elevator machine room.
- H301 Deleted "Environmental Conditioning Unit Schedule".

Electrical

- E101 Revised lighting in Room C105.
- E201 Deleted enlarged plan for elevator machine room.
Deleted ACCU-1.
Revised receptacles in C105.
- E203 Added connection for main elevator power and cab lighting circuit.
- E301 Deleted heat detector in C105.
- E303 Deleted smoke and heat detectors at the top of the elevator shaft.
Added note for data wiring conduit for elevator controller.
- E401 Revised circuiting throughout.
Revised panel schedule.
- E402 Revised circuiting throughout.
Revised panel schedule.
- E403 Revised circuiting throughout.
Revised panel schedule.
- E501 Revised circuit breakers and feeder sizers to the apartments.
Revised elevator circuit breaker, feeder, and disconnect switch.
Revised the house load calculation.
- E601 Deleted ACCU-1 and ECU-1 from the Mechanical Equipment Schedule.
- E602 Revised panel schedule for H1B (Section 1).
- E704 Deleted the Elevator Disconnect/Shunt Trip Wiring Diagram Detail.
Revised the Elevator Recall Fire Alarm Riser Detail for a non-sprinklered shaft.

Specifications

- 00 01 10 Table of Contents Added geotechnical report.

- Attachments:
- A001, Revision 2, Bulletin 03, 10/16/2023
 - A002, Revision 3, Bulletin 03, 10/16/2023
 - A101, Revision 3, Bulletin 03, 10/16/2023
 - A101A, Revision 3, Bulletin 03, 10/16/2023
 - A303, Revision 3, Bulletin 03, 10/16/2023
 - A401, Revision 3, Bulletin 03, 10/16/2023
 - A402, Revision 3, Bulletin 03, 10/16/2023
 - A403, Revision 2, Bulletin 03, 10/16/2023
 - A404, Revision 2, Bulletin 03, 10/16/2023
 - A506, Revision 2, Bulletin 03, 10/16/2023
 - A507, Revision 2, Bulletin 03, 10/16/2023
 - A602, Revision 2, Bulletin 03, 10/16/2023
 - A603, Revision 3, Bulletin 03, 10/16/2023
 - A701, Revision 2, Bulletin 03, 10/16/2023

A703, Revision 2, Bulletin 03, 10/16/2023
Site Survey, dated August 2023
C200, Revision 2, Bulletin 03, 10/16/2023
C300, Revision 3, Bulletin 03, 10/16/2023
C301, Revision 1, Bulletin 03, 10/16/2023
C400, Revision 3, Bulletin 03, 10/16/2023
L100, Revision 3, Bulletin 03, 10/16/2023
S100, Revision 3, Bulletin 03, 10/16/2023
S101, Revision 3, Bulletin 03, 10/16/2023
S102, Revision 3, Bulletin 03, 10/16/2023
S200, Revision 2, Bulletin 03, 10/16/2023
P001, Revision 2, Bulletin 03, 10/16/2023
P302, Revision 3, Bulletin 03, 10/16/2023
FS101, Revision 2, Bulletin 03, 10/16/2023
FS102, Revision 2, Bulletin 03, 10/16/2023
FS103, Revision 2, Bulletin 03, 10/16/2023
H101, Revision 2, Bulletin 03, 10/16/2023
H301, Revision 1, Bulletin 03, 10/16/2023
E101, Revision 3, Bulletin 03, 10/16/2023
E201, Revision 2, Bulletin 03, 10/16/2023
E203, Revision 1, Bulletin 03, 10/16/2023
E301, Revision 3, Bulletin 03, 10/16/2023
E303, Revision 2, Bulletin 03, 10/16/2023
E401, Revision 3, Bulletin 03, 10/16/2023
E402, Revision 3, Bulletin 03, 10/16/2023
E403, Revision 3, Bulletin 03, 10/16/2023
E501, Revision 2, Bulletin 03, 10/16/2023
E601, Revision 3, Bulletin 03, 10/16/2023
E602, Revision 2, Bulletin 03, 10/16/2023
E704, Revision 2, Bulletin 03, 10/16/2023
00 01 10 Table of Contents, Revision 2, Bulletin 03, 10/16/2023
Geotechnical Report

ADD \$ _____ DEDUCT \$ _____ NO CHANGE _____

The impact to the Contract Schedule: ADD _____ days DEDUCT _____ days
NO CHANGE _____

All Contractors are to respond to this Bulletin within 10 days with signature, date, and response. The numbers presented are firm quotations and shall include all material and labor to complete the work in its entirety.

Contractor

Date

Bulletin Prepared by:
TC ARCHITECTS



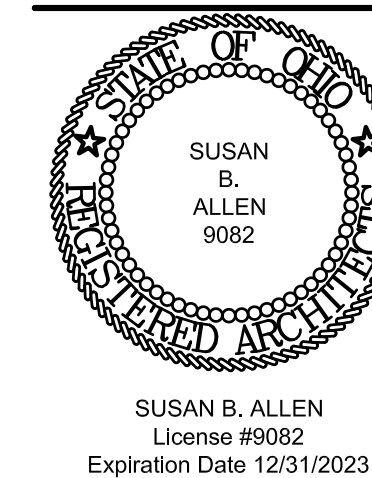
GERMANTOWN CROSSING

1520 GERMANTOWN ST.
DAYTON, OH 45417

100% CONSTRUCTION SET

DRAWING INDEX

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A002	CODE DATA	A703	FIRST FLOOR FINISH PLAN	E403	TYPICAL THIRD BEDROOM - ELEC.
A003	LIFE SAFETY PLANS	A704	SECOND FLOOR FINISH PLAN	E501	POWER RISER DIAGRAMS - ELEC.
A004	OHFA DACF FORM	A705	THIRD FLOOR FINISH PLAN	E601	SCHEDULES - ELECTRICAL
A005	OHFA DACF FORM	A801	INTERIOR SIGNAGE PLANS	E602	SCHEDULES - ELECTRICAL
A006	OHFA DACF FORM	A802	INTERIOR SIGNAGE PLANS	E701	DETAILS - ELECTRICAL
		A803	MONUMENT SIGN	E702	DETAILS - ELECTRICAL
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C000	SITE SURVEY	STRUCTURAL	GENERAL NOTES		
C200	SITE CLEARING PLAN	S000	SPECIAL INSPECTIONS		
C300	SITE UTILITY PLAN	S001	FOUNDATION PLAN		
C300	SITE PAVING PLAN	S100	2ND FLOOR FRAMING PLAN		
C301	SITE LAYOUT PLAN	S101	3RD FLOOR FRAMING PLAN		
C400	STORM SEWER AND GRADING PLAN	S102	FOUNDATION SECTIONS		
C500	EROSION CONTROL NARRATIVE	S103	FRAMING DETAILS		
C501	EROSION CONTROL DETAILS	S300	FRAMING DETAILS		
C600	SITE DETAILS	S301	FRAMING DETAILS		
C601	SITE DETAILS	S302	FRAMING DETAILS		
C602	SITE DETAILS	S303	DETAILS AND SCHEDULES		
		S304	STAIR SECTIONS & DETAILS		
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		P101	SECOND FLOOR PLAN - PLUMBING		
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		P302	PLUMBING DETAILS		
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		E102	LIGHTING - THIRD FLOOR - ELEC.		
		E103	POWER - FIRST FLOOR - ELEC.		
		E201	POWER - SECOND FLOOR - ELEC.		
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		E401	TYPICAL ONE BEDROOM - ELEC.		



REVISIONS
 BULLETIN 01 07/17/2023
 BULLETIN 03 10/16/2023

TITLE SHEET
 GERMANTOWN CROSSING
 DAYTON OHIO



430 GRANT STREET
 AKRON, OH 44311
 PHONE: (330) 867-1093
 www.tcarchitects.com

TURNING VISIONS INTO REALITY

03/31/2023

DATE

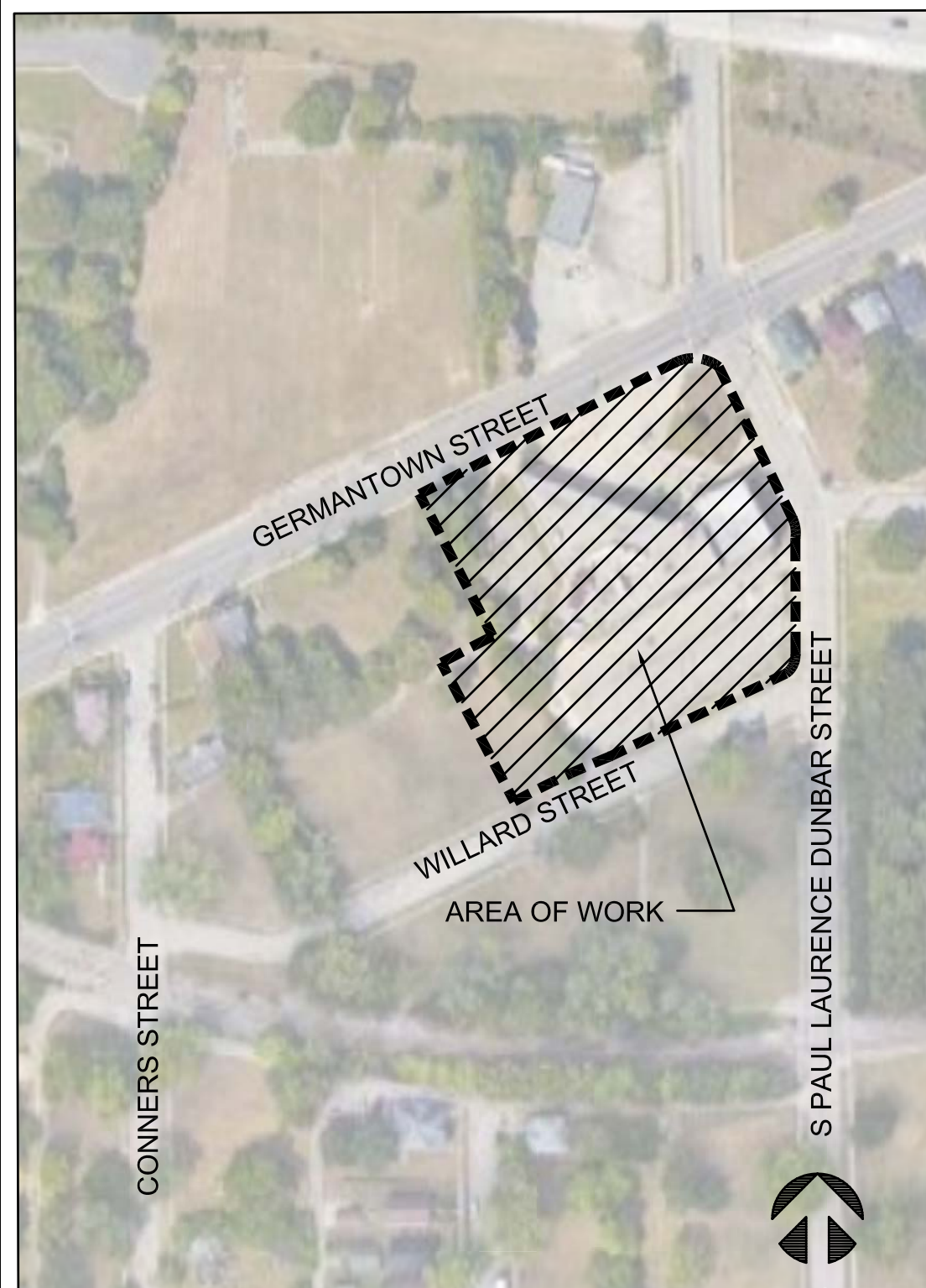
82A21

PROJECT NUMBER

A001

DRAWING NUMBER

LOCATION MAP



PROJECT TEAM

tc
 ARCHITECTS
 ARCHITECTURAL DESIGN
 430 GRANT STREET
 AKRON, OHIO 44311
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partners in design
 INTERIOR DESIGN
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SBM Scheeser Buckley Mayfield
 CIVIL, PLUMBING, MECHANICAL,
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 PHONE: 330-562-2700
 sbmce.com

TTR Engineers
 STRUCTURAL ENGINEERING
 450 GRANT STREET, SUITE 130
 AKRON, OH 44311
 PHONE: 330-733-8332

SYMBOLS

DOOR NUMBER
 ROOM NUMBER
 DOOR NUMBER

GLASS TYPE
 GLASS TYPE

ROOM NAME AND NUMBER
 ROOM NAME
 ROOM NUMBER

WINDOW TYPES
 WINDOW TYPES

DOOR TYPES
 DOOR TYPES

FRAME TYPES
 FRAME TYPES

ELEVATION
 DETAIL NUMBER
 SHEET WHERE DRAWN

WALL SECTION OR DETAIL
 DETAIL NUMBER
 SHEET WHERE DRAWN

PARTITION TYPE
 PARTITION TYPE

DRAWING ORGANIZATION SYSTEM

DRAWING FORMAT

NUMERIC SYSTEM CODE

NUMERIC SYSTEM CODE	DRAWING GROUPS
A001	TITLE SHEET
A002	CODE DATA AND LIFE SAFETY PLAN
A101, A102, ETC.	FLOOR, ROOF AND REFLECTED CEILING PLANS
A201, A202, ETC.	BUILDING ELEVATIONS AND MAJOR BUILDING SECTIONS
A301, A302, ETC.	STAIR, ELEVATOR SECTIONS AND DETAILS
A401, A402, ETC.	WALL SECTIONS AND DETAILS
A501, A502, ETC.	INTERIOR PLAN DETAILS AND INTERIOR ELEVATIONS
A601, A602, ETC.	PARTITION TYPES, DOOR SCHEDULE AND DETAILS, WINDOW SCHEDULE AND DETAILS
A701, A702, ETC.	FURNITURE, FINISH AND EQUIPMENT PLANS, FINISH SCHEDULES, PROJECT SPECIFIC PLANS AND DETAILS (I.E. CAGING, LAB EQUIPMENT, ETC.)

DISCIPLINE IDENTIFICATION

DISCIPLINE PREFIX	DISCIPLINE
C	CIVIL
L	LANDSCAPING
A	ARCHITECTURAL
S	STRUCTURAL
P	PLUMBING
FP	FIRE PROTECTION
H	MECHANICAL
E	ELECTRICAL
T	TECHNOLOGY
K	KITCHEN

NUMERIC SYSTEM CODE

A101

DRAWING NUMBER
 GROUP DESIGNATION
 DISCIPLINE PREFIX

DWELLING UNIT DISTRIBUTION

	1 BEDROOM	2 BEDROOM	3 BEDROOM	
MOBILITY UNIT (ACCESSIBILITY UNIT PER ICC A117.1)	3	2	3	
SEEING & HEARING IMPAIRED UNIT (S & H) (TYPE B PER ICC A117.1)		1		
TYPICAL UNIT (TYPE B PER ICC A117.1)	10	23	8	
TOTAL				50 UNITS TOTAL

MOBILITY UNITS = 5% TOTAL EACH TYPE OF UNIT REQUIRED

(13) ONE BEDROOM X 5% = .65 1 UNIT REQUIRED 3 UNITS PROVIDED
 (26) TWO BEDROOM X 5% = 1.3 2 UNITS REQUIRED 2 UNITS PROVIDED
 (11) THREE BEDROOM X 5% = .55 1 UNIT REQUIRED 3 UNITS PROVIDED

SIGHT & HEARING IMPAIRED UNITS = 2% OF TOTAL UNITS REQUIRED

50 TOTAL UNITS X 2% = 1 1 UNIT REQUIRED 1 UNIT PROVIDED

PROJECT CODE DATA

BUILDING OFFICIAL JURISDICTION: CITY OF DAYTON - BUILDING SERVICES DEPARTMENT

APPLICABLE CODE: 2017 OHIO BUILDING CODE
 2017 OHIO PLUMBING CODE
 2017 OHIO MECHANICAL CODE
 2017 NATIONAL ELECTRIC CODE
 ICC A117.1-2009
 2017 INTERNATIONAL ELECTRIC CODE
 UFAS
 HUD SECTION 504 MOBILITY UNITS
 2015 INTERNATIONAL FUEL GAS CODE
 2017 INTERNATIONAL ENERGY CONSERVATION CODE

PROJECT DESCRIPTION:

ONE THREE STORY BUILDING CONTAINING (50) UNITS. THE BUILDING IS TO BE WOOD STUD ON CONCRETE SLAB-ON-GRADE.

PROJECT ADDRESS: 1520 GERMANTOWN CROSSING
 DAYTON, OHIO 45417

CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION:

R-2: RESIDENTIAL GROUP
 A-3: ASSEMBLY GROUP: COMMUNITY ROOM (ACCESSORY USE TO R-2)
 B: BUSINESS

CHAPTER 4: SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY:

SECTION 420: GROUP R2 - SEPARATION WALLS BETWEEN UNITS
 SECTION 420.2: WALLS SEPARATING DWELLING UNITS: 1-HOUR (UL U-311)
 SECTION 420.3: HORIZONTAL SEPARATION: 1 HOUR (UL L-550)

CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS:

CONSTRUCTION TYPE: 5B (FULLY SPRINKLERED)

ALLOWABLE	ACTUAL
60'-0" HEIGHT (TABLE 504.3)	40'-0" (PITCHED ROOF)
3 STORIES (TABLE 504.4)	3 STORIES

ALLOWABLE AREA PER FLOOR (TABLE 506.2)

FLOOR	ALLOWED	ACTUAL
1ST FLOOR R-2:	21,000 SF	16,419 SF
1ST FLOOR A-3:	18,000 SF	1,032 SF
1ST FLOOR B:	27,000 SF	1,222 SF
TOTAL 1ST FLOOR:	66,000 SF	18,673 SF
2ND FLOOR R-2:	18,000 SF	17,842 SF
TOTAL 2ND FLOOR:	18,000 SF	17,842 SF
3RD FLOOR R-2:	18,000 SF	17,740 SF
TOTAL 3RD FLOOR:	18,000 SF	17,740 SF
BUILDING TOTAL:	102,000 SF	54,255 SF

TABLE 508.4: REQUIRED SEPARATION OF OCCUPANCIES
 R-2 TO A-3 1 HOUR SEPARATION (SPRINKLERED)
 R-2 TO B 1 HOUR SEPARATION (SPRINKLERED)

CHAPTER 6: TYPE OF CONSTRUCTION: FIRE RESISTANCE RATINGS - TABLE 601

CONSTRUCTION TYPE: 5B	0 HR.	NON-BEARING WALLS AND PARTITIONS:	0 HR.
PRIMARY STRUCTURAL FRAME:	0 HR.	EXTERIOR	0 HR.
BEARING WALLS:	0 HR.	INTERIOR	0 HR.
EXTERIOR	0 HR.	FLOOR CONSTRUCTION:	0 HR.
INTERIOR		ROOF CONSTRUCTION:	

CHAPTER 7: FIRE RESISTANCE RATED CONSTRUCTION:

2 HOUR RATED ELEVATOR SHAFTS - UL U905
 2 HOUR RATED EGRESS STAIR SHAFTS (IN ACCORDANCE W/ 1023.2) - UL U301
 2 HOUR RATED TRASH SHAFTS - UL U428
 1 HOUR RATED MACHINE ROOMS - UL U311
 CORRIDOR WALL - 1 HOUR SEPARATION - UL U311
 MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE (705.8)
 FIRE SEPARATION DISTANCE 30'-0" OR GREATER
 DEGREE OF OPENING PROTECTION UNPROTECTED (SPRINKLERED)
 ALLOWABLE AREA NO LIMIT

CHAPTER 8: INTERIOR FINISHES: TABLE 803.11 (SPRINKLERED)

OCCUPANCY	VERTICAL EXITS & EXIT PASSAGEWAYS	EXIT ACCESS CORRIDORS	ROOMS AND ENCLOSED SPACES
R-2	C	C	C
B	A	B	C
A-3	A	A	C

CHAPTER 9: FIRE PROTECTION SYSTEMS:

SEC. 903.3.1.1: NFPA-13 SPRINKLER SYSTEM THROUGHOUT

SEC. 906.1: FIRE EXTINGUISHERS AS REQUIRED BY OHIO FIRE CODE. PROVIDE MINIMUM OF (53) TYPE 2-A FIRE EXTINGUISHERS; THREE (3) AT EACH FLOOR AS DIRECTED BY FIRE MARSHAL PLUS (1) IN EVERY UNIT KITCHEN.

SEC. 907.2.9: FIRE ALARM SYSTEM AND INTERCONNECTED SMOKE ALARMS REQUIRED THROUGHOUT

CHAPTER 10: MEANS OF EGRESS: TBL. 1004.1.1:

(R-2) OCCUPANCY - FIRST FLOOR	16,419 SF / 200 = 82.1 OCCUPANTS
(R-2) OCCUPANCY - SECOND FLOOR	17,842 SF / 200 = 89.2 OCCUPANTS
(R-2) OCCUPANCY - THIRD FLOOR	17,740 SF / 200 = 88.7 OCCUPANTS
(B) OCCUPANCY - FIRST FLOOR	1,222 SF / 100 = 12.2 OCCUPANTS
(A-3) OCCUPANCY - FIRST FLOOR	845 SF (COMM. RM) SF / 15 = 56.3 OCCUPANTS 140 SF (KITCHEN) / 200 = .7 OCCUPANTS 42 SF (STORAGE) / 300 = .14 OCCUPANTS

TOTAL BUILDING OCCUPANCY
 330 POSSIBLE OCCUPANTS

EGRESS WIDTH PER OCCUPANT: (1005.1)

STAIRWAYS = .2" PER OCCUPANT (PER 1005.3.1, EXCEPTION 1)
 .2" X 178 (2ND + 3RD FLOORS (PER STAIR)) = 35.8" REQUIRED (48" PROVIDED)

OTHER EGRESS: .2" PER OCCUPANT
 FIRST FLOOR 151.44 X .2" = 30" REQUIRED (60" PROVIDED)
 SECOND FLOOR 89.2 X .2" = 17.84" REQUIRED (60" PROVIDED)
 THIRD FLOOR 88.7 X .2" = 17.74" REQUIRED (60" PROVIDED)

DOOR SWING (1010.1.2.1) EGRESS SHOULD BE SIDE SWINGING SERVING 50 OR MORE OCCUPANTS - SWINGING IN THE DIRECTION OF TRAVEL.

EXIT TRAVEL DISTANCE (TABLE 1017.2) COMMON PATH OF TRAVEL: 250'-0" WITH SPRINKLER SYSTEM

DEAD END CORRIDORS (1020.4): 50'-0" WITH SPRINKLER SYSTEM.

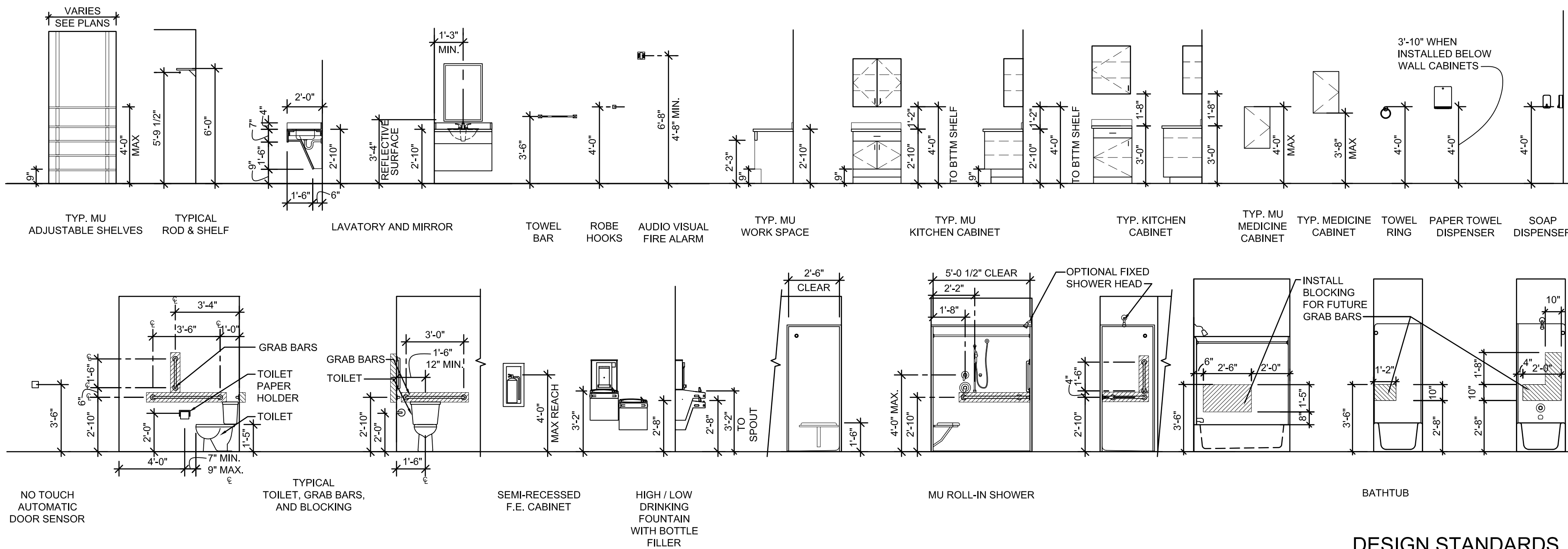
EMERGENCY ESCAPE AND RESCUE: (1030.2)

NET CLEAR OPENING = 5.7 SF

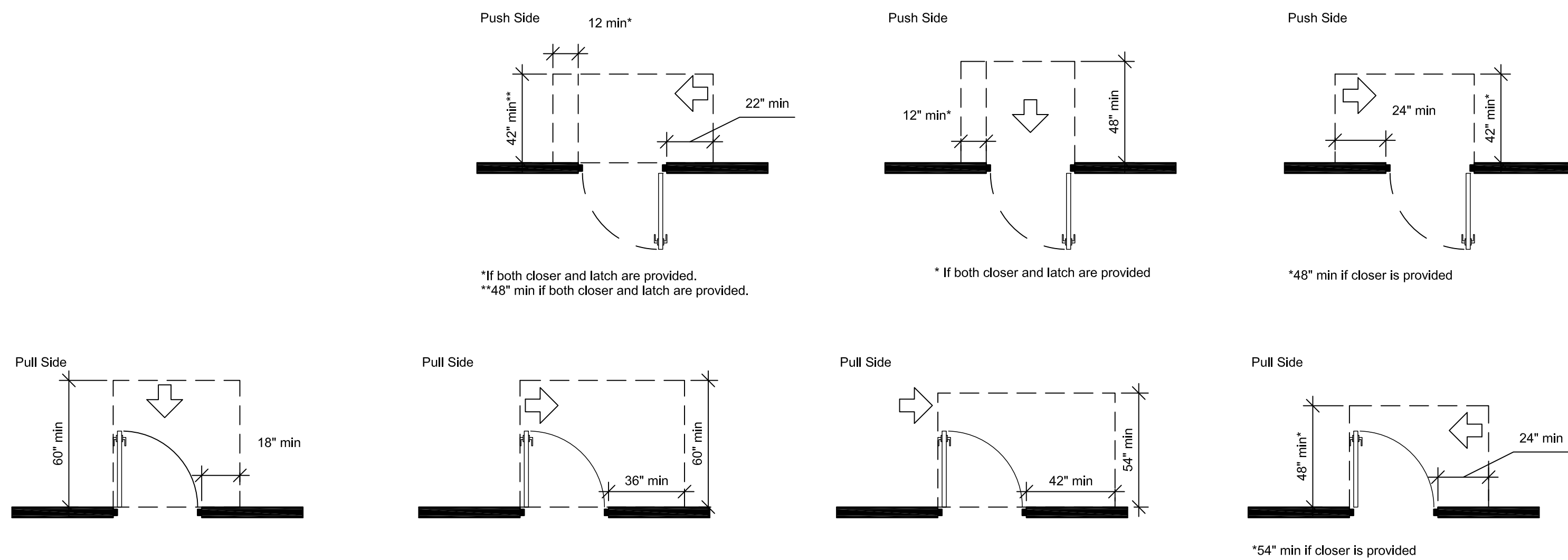
HEIGHT - 24"
 WIDTH = 20"
 SILL = 44" MAX ABOVE FINISH FLOOR

CHAPTER 11: ACCESSIBILITY REQUIREMENTS:

THIS FACILITY IS DESIGNED IN ACCORDANCE WITH ICC A117.1, THE AMERICANS WITH DISABILITIES ACT AND UFAS. THERE ARE A TOTAL OF (42) TYPE B UNITS AND (8) ACCESSIBLY UNITS PER ICC A117.1 CHAPTER 10.

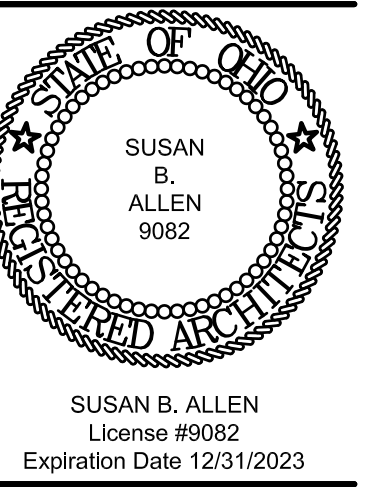


DESIGN STANDARDS



MANEUVERING CLEARANCES FOR ALL DOORS

(PER 2009 IBC CH 11 & ICC/ANSI 117.1-2003)



REVISIONS

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CODE DATA
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DAYTON OHIO



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82A21

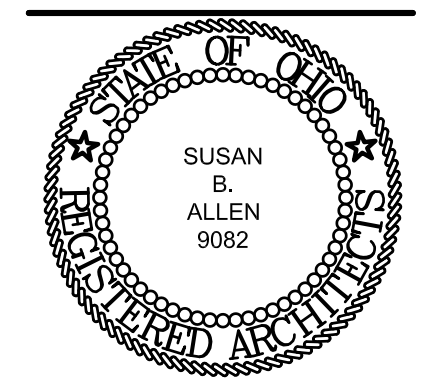
PROJECT NUMBER

A002

DRAWING NUMBER

GENERAL NOTES

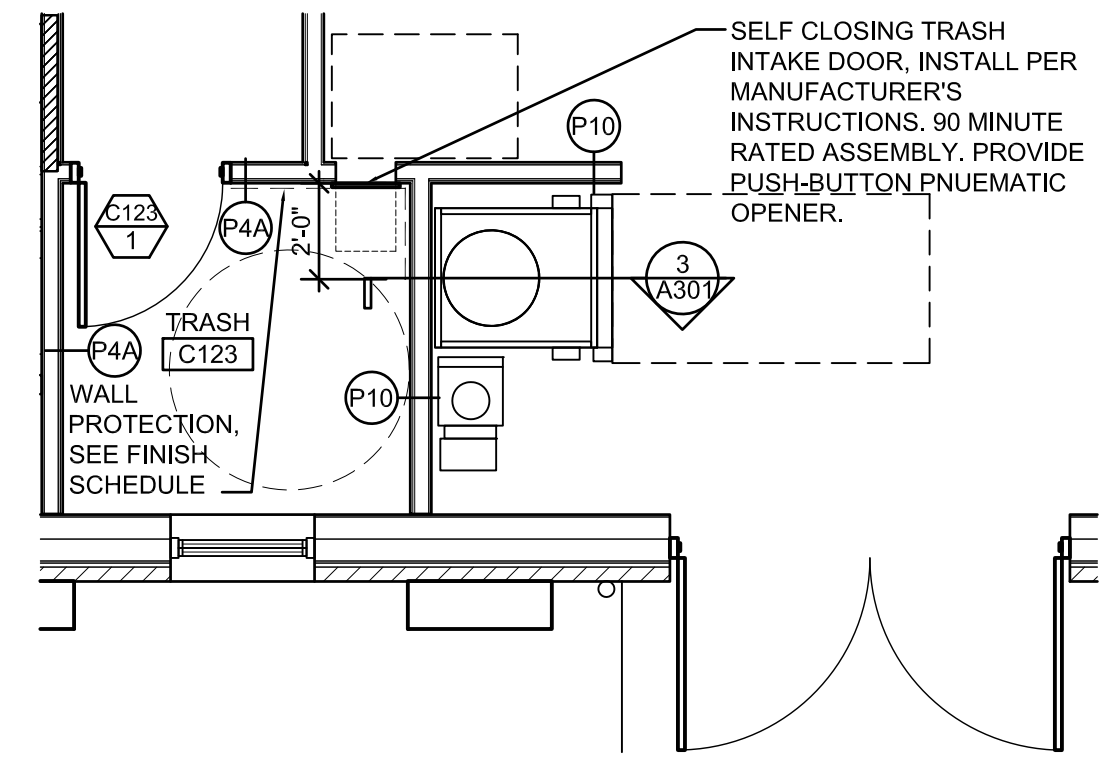
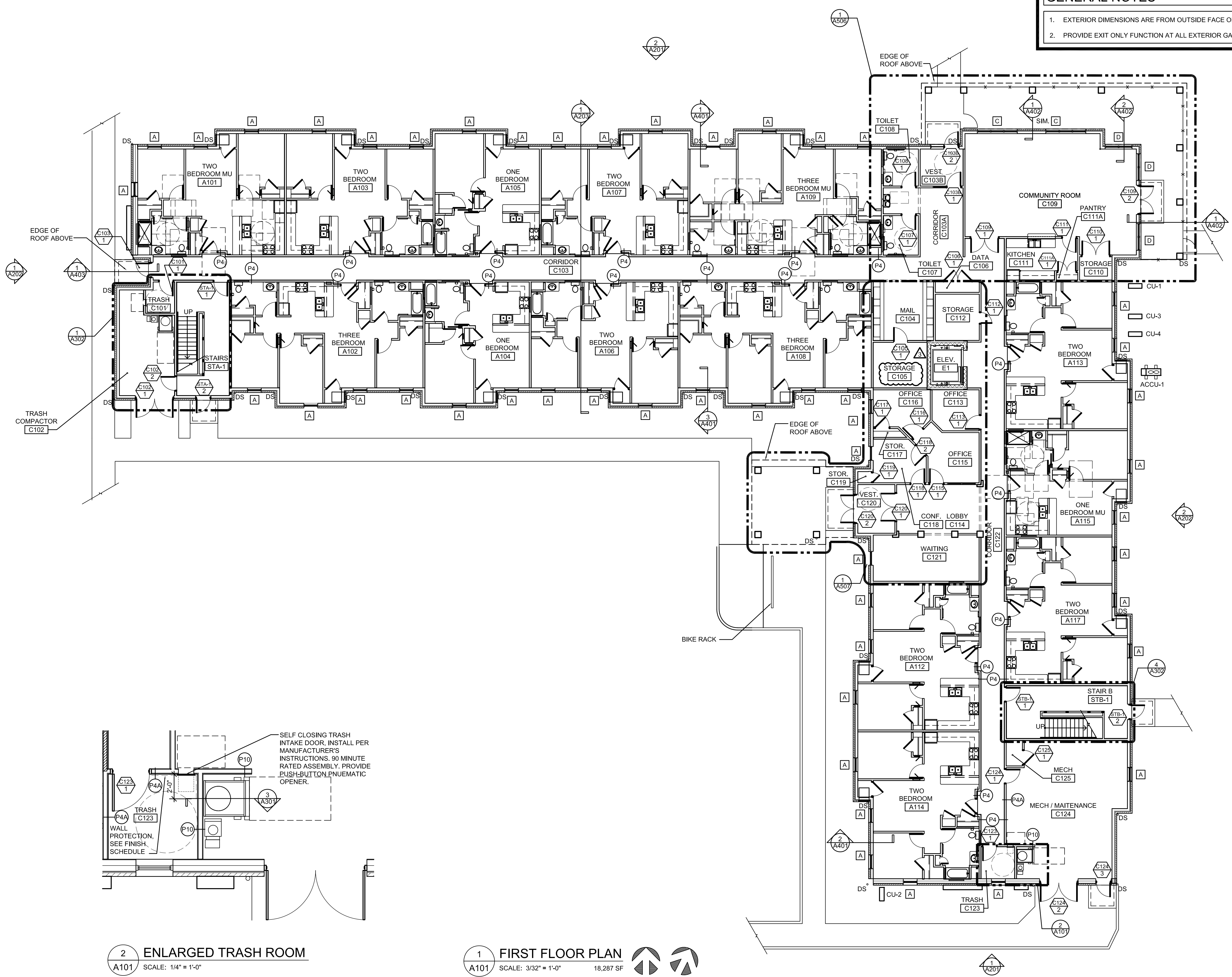
1. EXTERIOR DIMENSIONS ARE FROM OUTSIDE FACE OF WOOD STUD.
2. PROVIDE EXIT ONLY FUNCTION AT ALL EXTERIOR GATES.



SUSAN B. ALLEN
License #9082
Expiration Date 12/31/2023

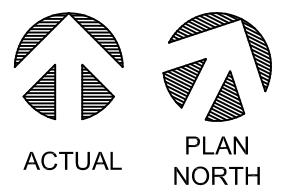
REVISIONS

▲	BULLETIN 01 07/17/2023
▲	BULLETIN 02 09/19/2023
▲	BULLETIN 03 10/16/2023



2 ENLARGED TRASH ROOM
A101 SCALE: 1/4" = 1'-0"

1 FIRST FLOOR PLAN
A101 SCALE: 3/32" = 1'-0" 18,287 SF



FIRST FLOOR PLAN
GERMANTOWN CROSSING
DAYTON OHIO



430 GRANT STREET
AKRON, OH 44311
PHONE: (330) 867-1093
www.tcarchitects.com

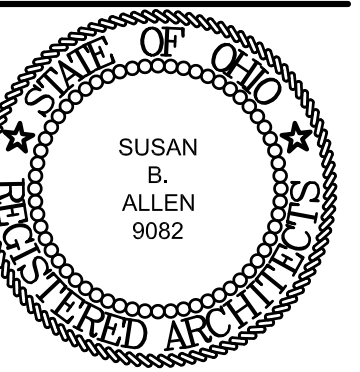
TURNING VISIONS INTO REALITY

03/31/2023
DATE
82A21
PROJECT NUMBER

A101
DRAWING NUMBER

GENERAL NOTES

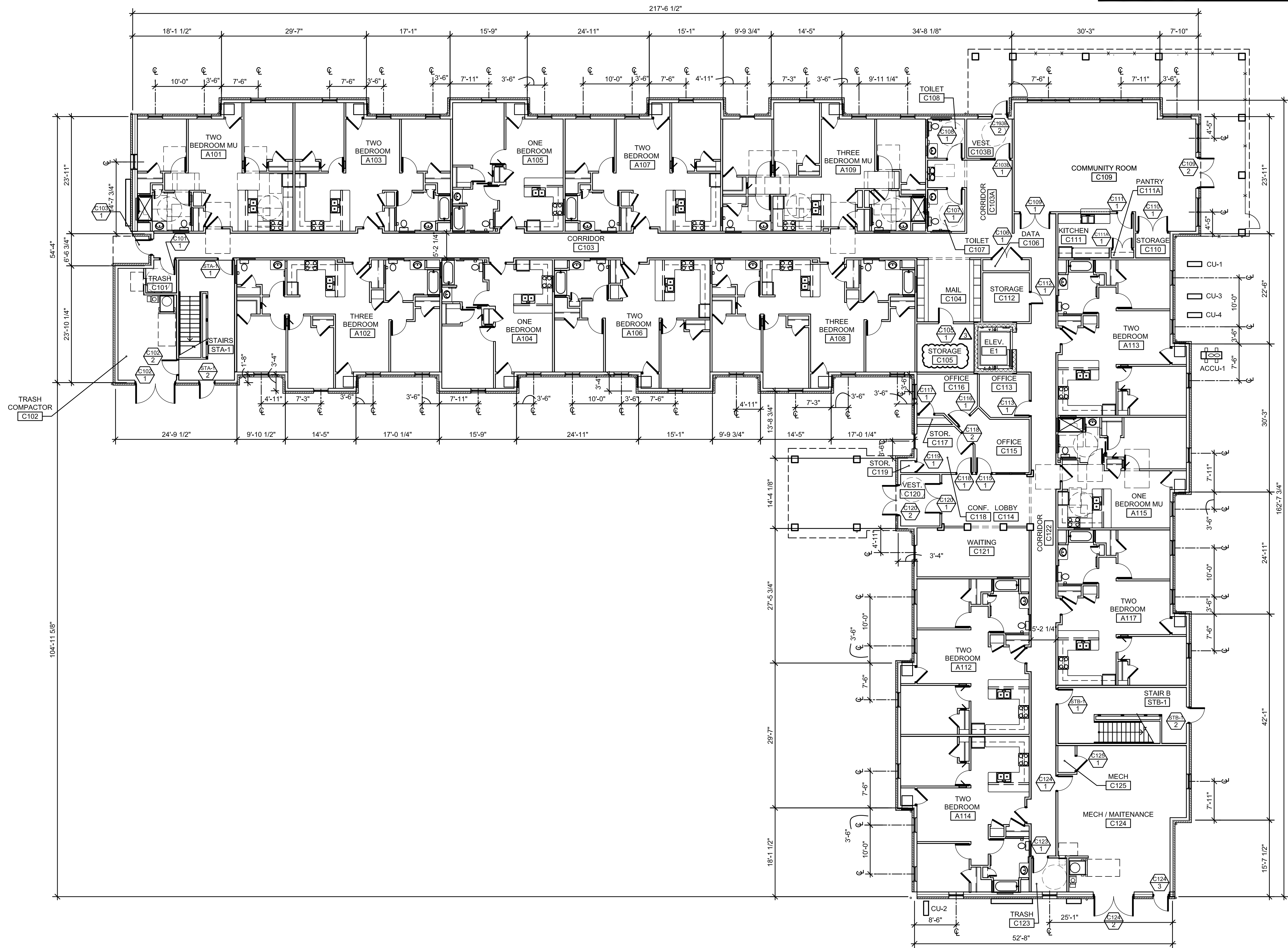
1. EXTERIOR DIMENSIONS ARE FROM OUTSIDE FACE OF WOOD STUD.
2. PROVIDE EXIT ONLY FUNCTION AT ALL EXTERIOR GATES.



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FIRST FLOOR DIMENSIONAL PLAN
GERMANTOWN CROSSING
DAYTON OHIO



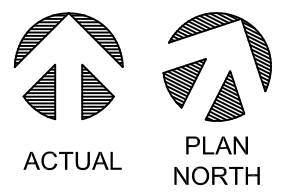
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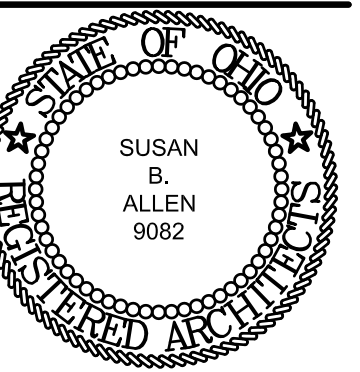
TURNING VISIONS INTO REALITY

03/31/2023
DATE
82A21
PROJECT NUMBER

A101A
DRAWING NUMBER

1 FIRST FLOOR DIMENSIONAL PLAN
A101A SCALE: 3/32" = 1'-0" 18.287 SF





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▲	BULLETIN 03 10/16/2023

STAIR SECTIONS
GERMANTOWN CROSSING
 DAYTON OHIO



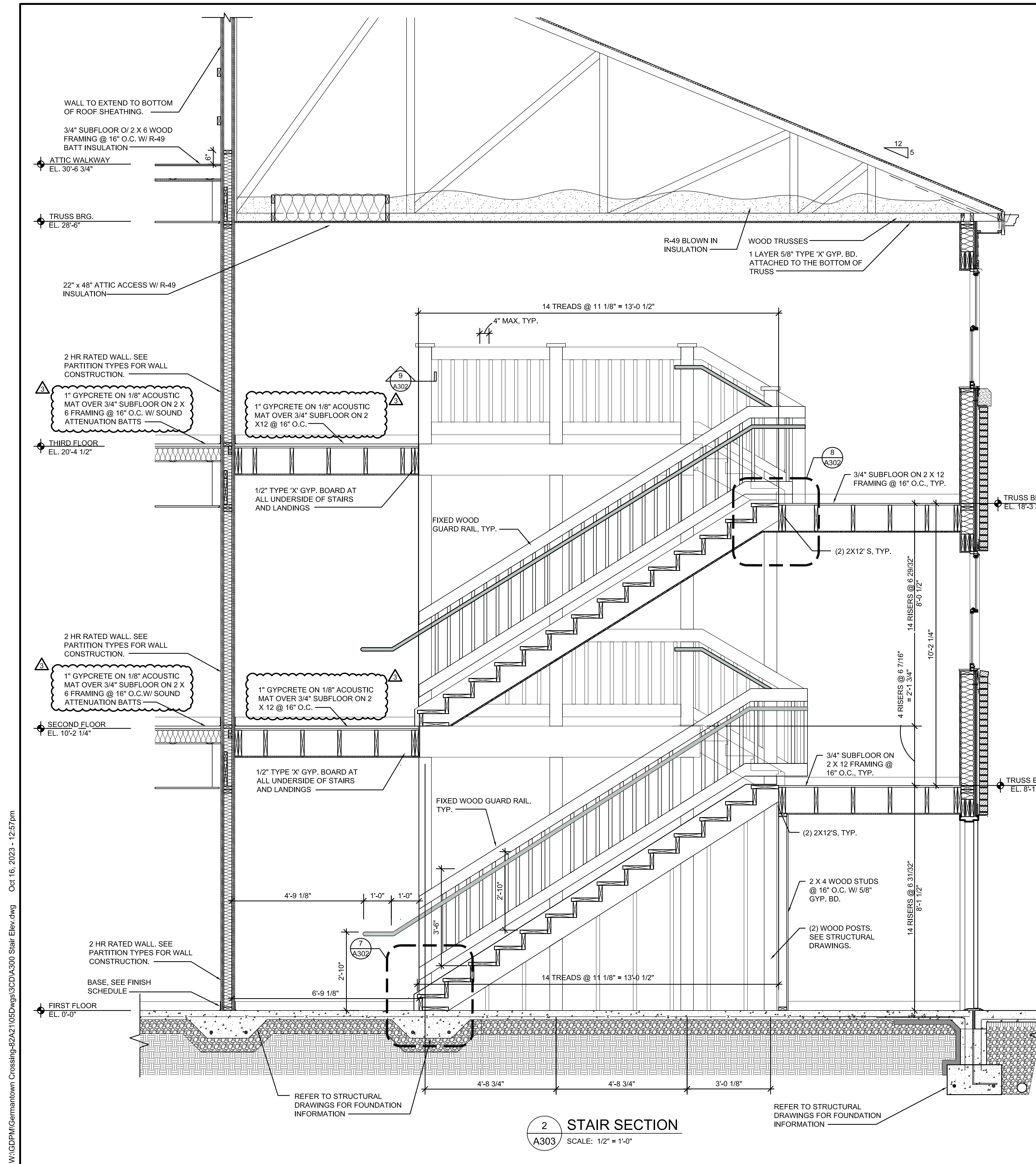
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**TURNING VISIONS
INTO REALITY**

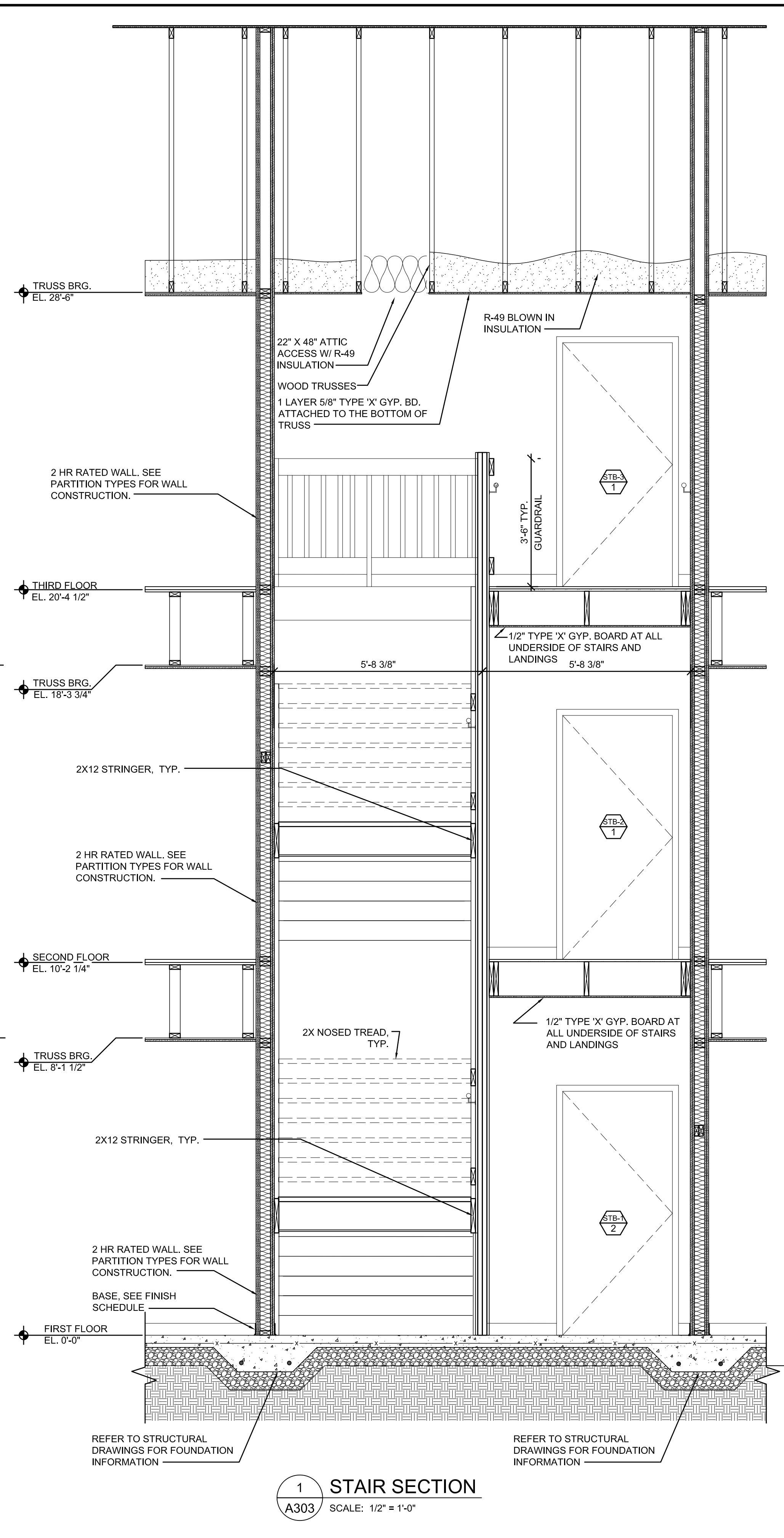
03/31/2023
DATE

82A21
PROJECT NUMBER

A303
DRAWING NUMBER



2 STAIR SECTION
A303 SCALE: 1/2" = 1'-0"

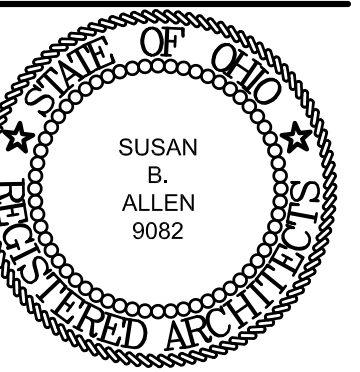


1 STAIR SECTION
A303 SCALE: 1/2" = 1'-0"

W:\GDPM\Germantown Crossing-82A21\05Dwg\3CDVA300 Stair Elev.dwg Oct 16, 2023 - 12:57pm

GENERAL NOTES

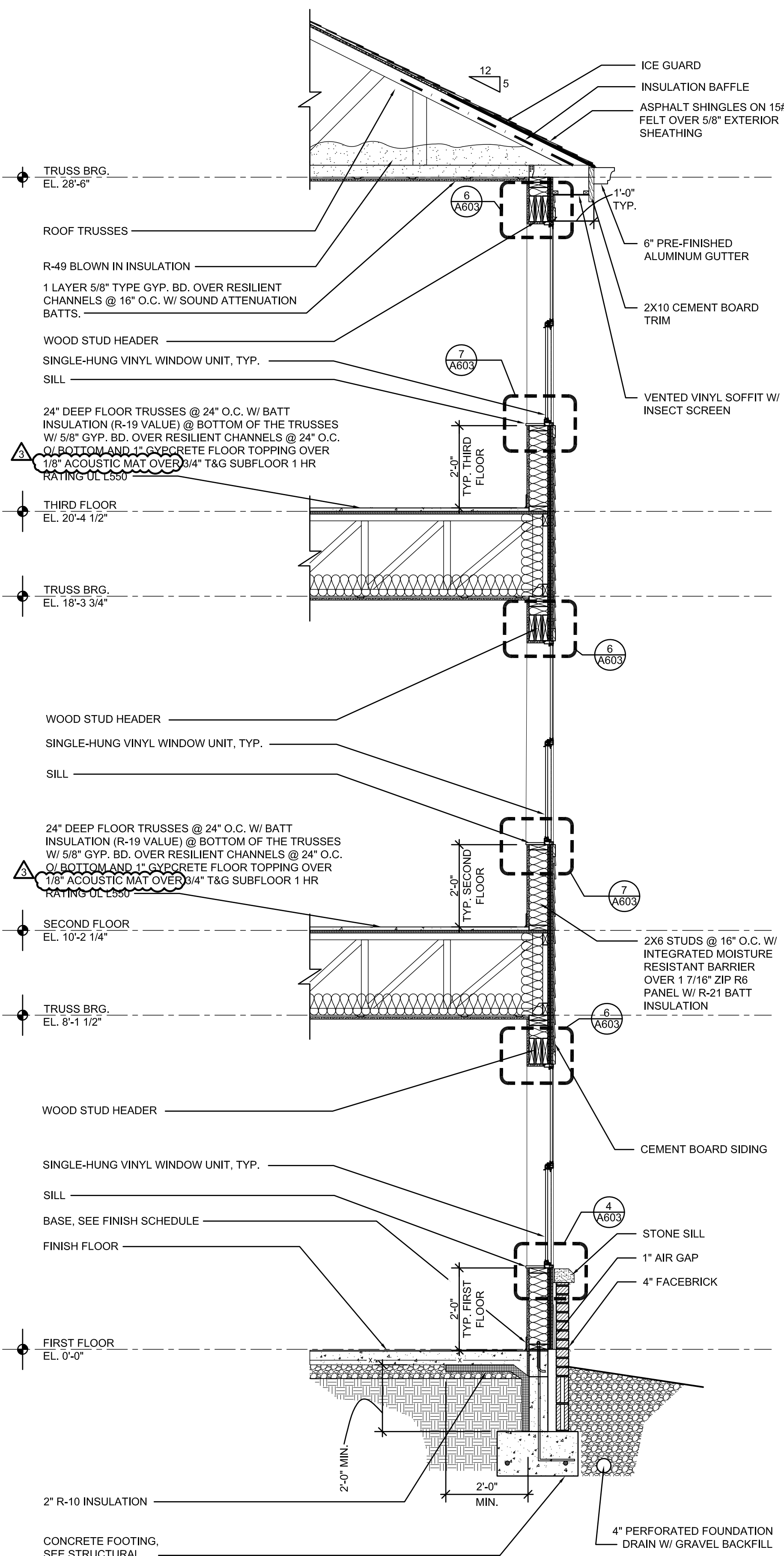
1. ALL GUTTERS ARE TO HAVE LEAF GUARDS.



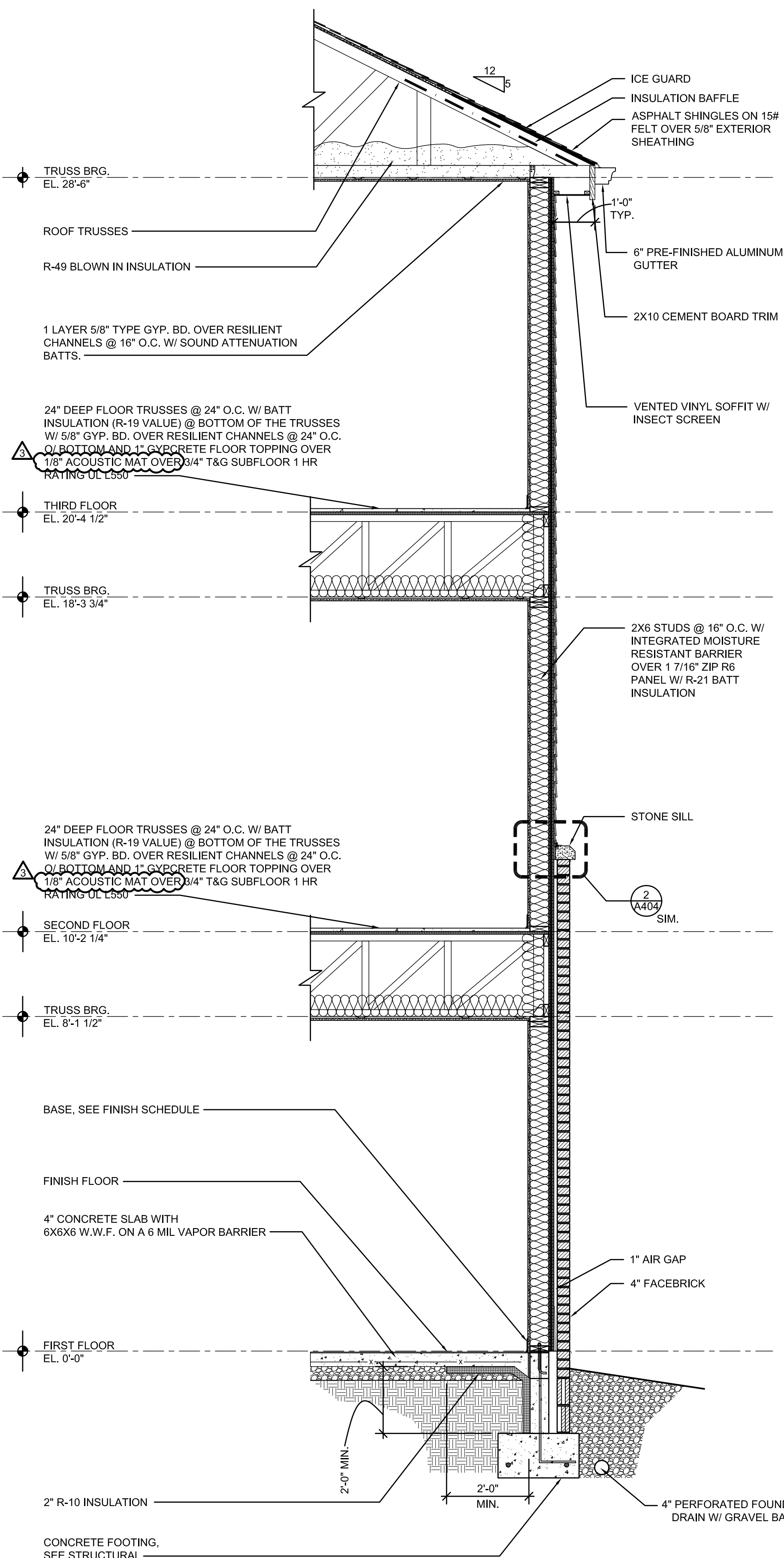
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REVISIONS

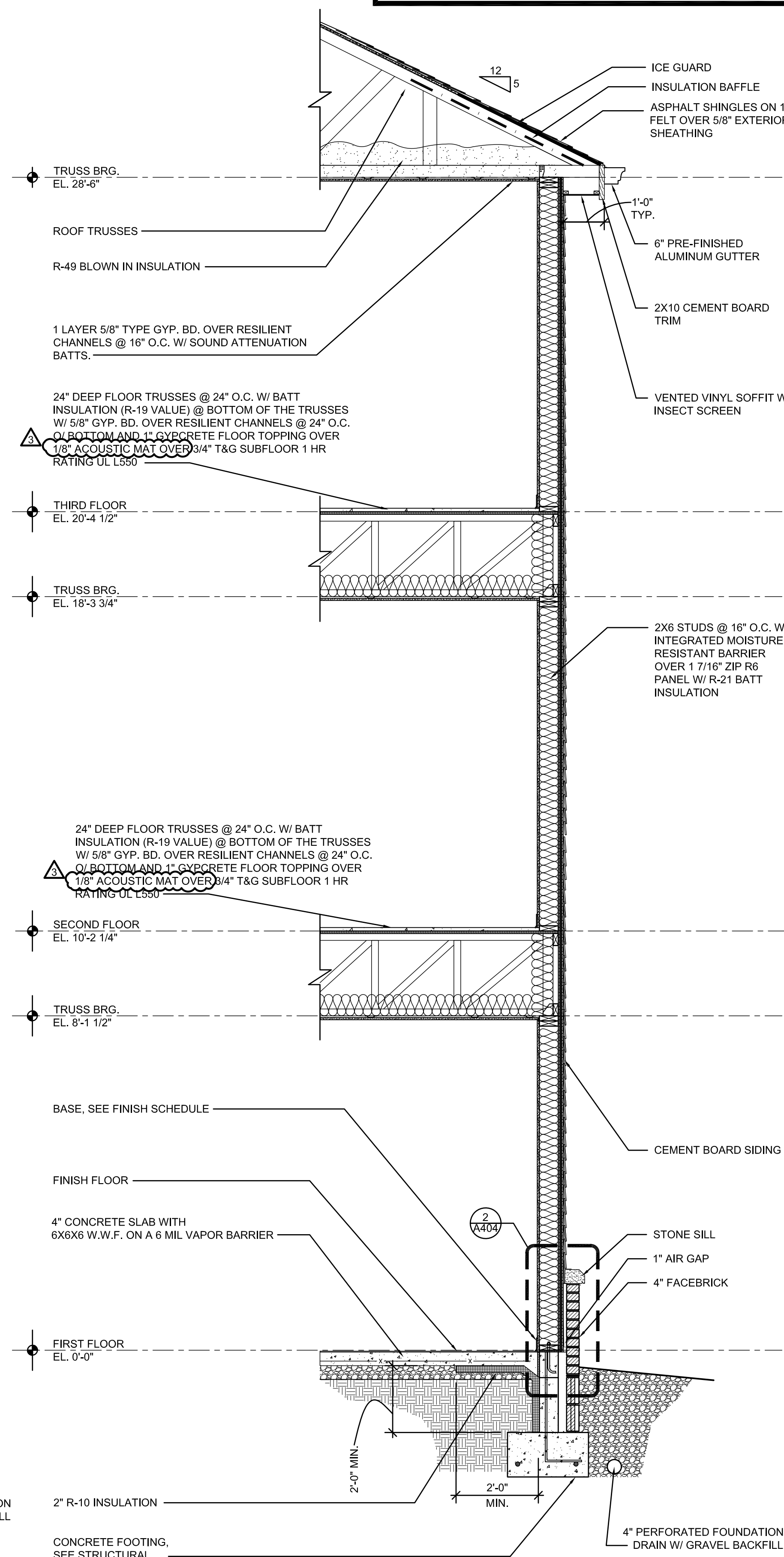
- ▲ BULLETIN 01 07/17/2023
- ▲ BULLETIN 02 09/19/2023
- ▲ BULLETIN 03 10/16/2023



3 WALL SECTION
A401 SCALE: 1/2" = 1'-0"



2 WALL SECTION
A401 SCALE: 1/2" = 1'-0"



1 WALL SECTION
A401 SCALE: 1/2" = 1'-0"

W:\GDPM\Germantown Crossing-82A21\05DWgs\3CD\A401_A402.dwg Oct 16, 2023 - 12:59pm

WALL SECTIONS
GERMANTOWN CROSSING
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TURNING VISIONS INTO REALITY

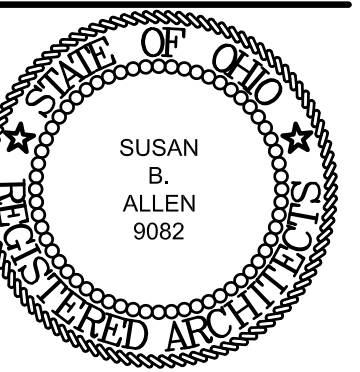
03/31/2023

DATE

82A21

PROJECT NUMBER

A401
DRAWING NUMBER



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Expiration Date 12/31/2023

REVISIONS

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- ▲ BULLETIN 02 09/19/2023
- ▲ BULLETIN 03 10/16/2023

WALL SECTIONS & TOWER DETAILS

GERMANTOWN CROSSING
DAYTON OHIO



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TURNING VISIONS
INTO REALITY

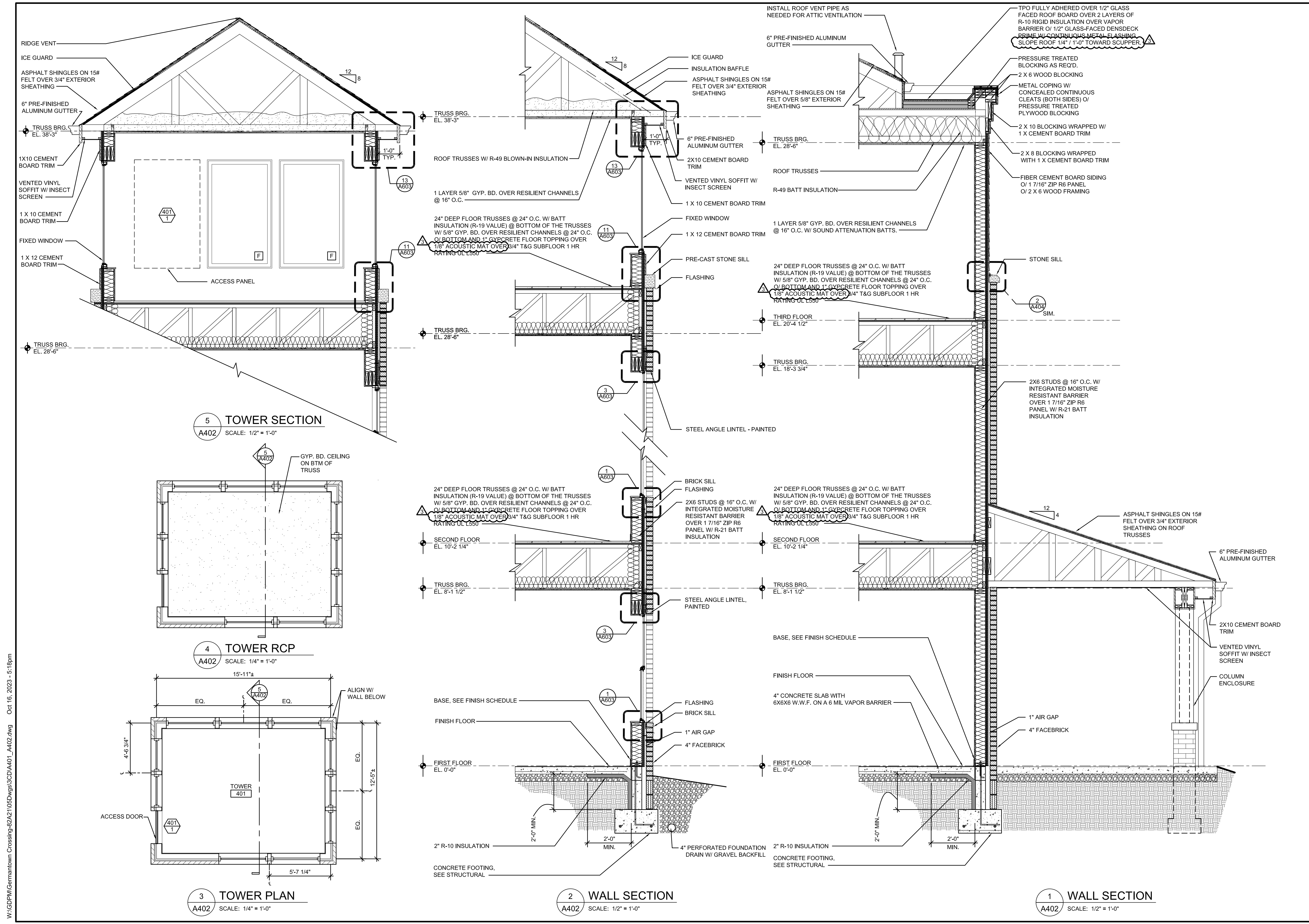
03/31/2023

DATE

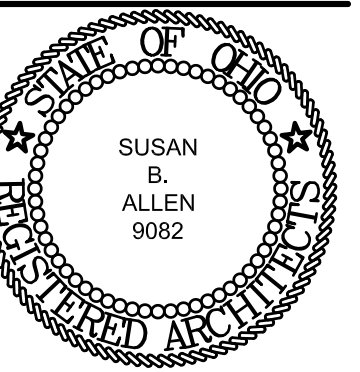
82A21

PROJECT NUMBER

A402
DRAWING NUMBER



W:\GDPM\Germantown Crossing-82A21\05DWgs\3CDVA01_A402.dwg Oct 16, 2023 - 5:18pm



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WALL SECTIONS & DETAILS
 GERMANTOWN CROSSING
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TURNING VISIONS
 INTO REALITY

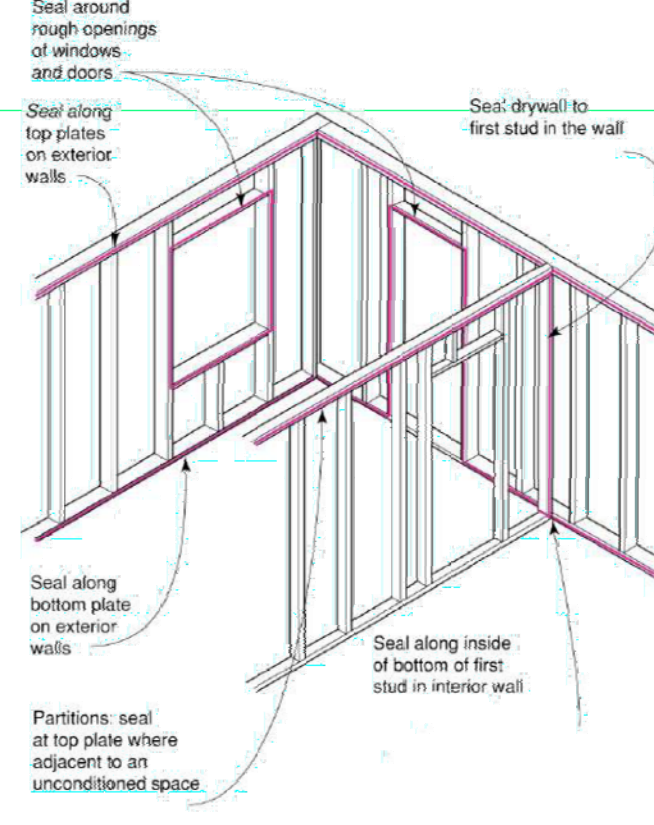
03/31/2023
 DATE

82A21
 PROJECT NUMBER

A403
 DRAWING NUMBER

General Air Sealing Recommendations for Green Programs

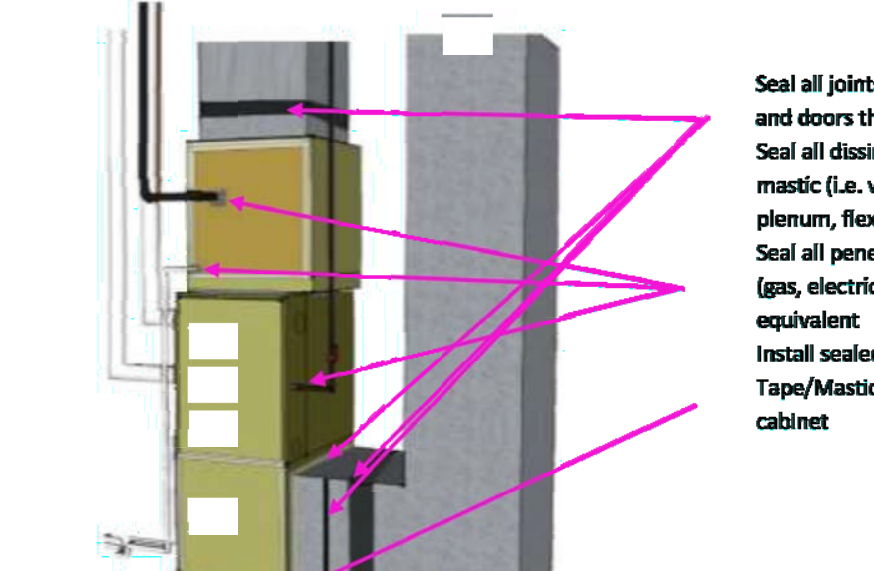
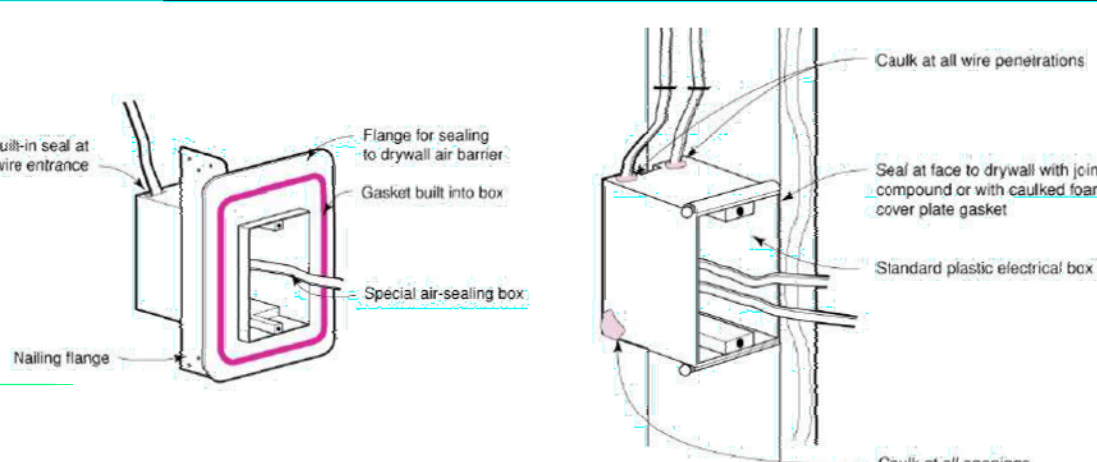
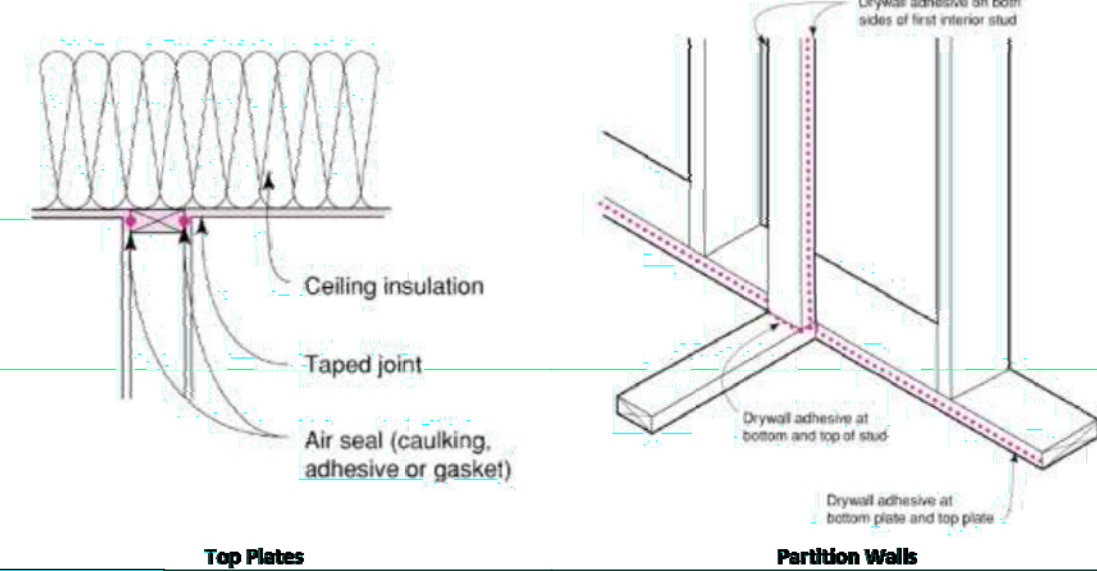
WHOLE UNIT COMPARTMENTALIZATION



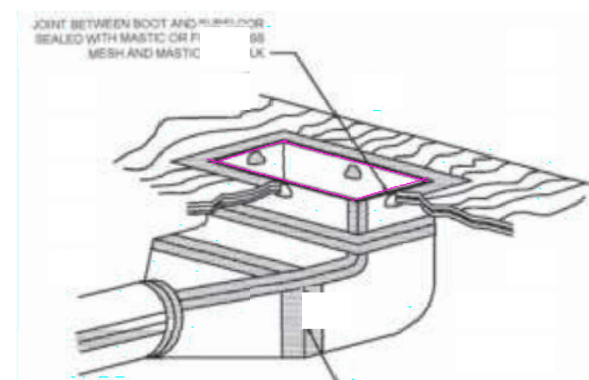
Sealing Perimeter of Drywall Assemblies, AKA - Air Tight Drywall Approach

Air barrier continuity at the perimeter of drywall assemblies is achieved by sealing the edges of the drywall to solid framing materials. This requires a continuous bead of sealant along:

- All exterior wall bottom plates and top plates
- All top plates at insulated ceilings
- Rough opening perimeters
- Both sides of the first interior stud of partition walls

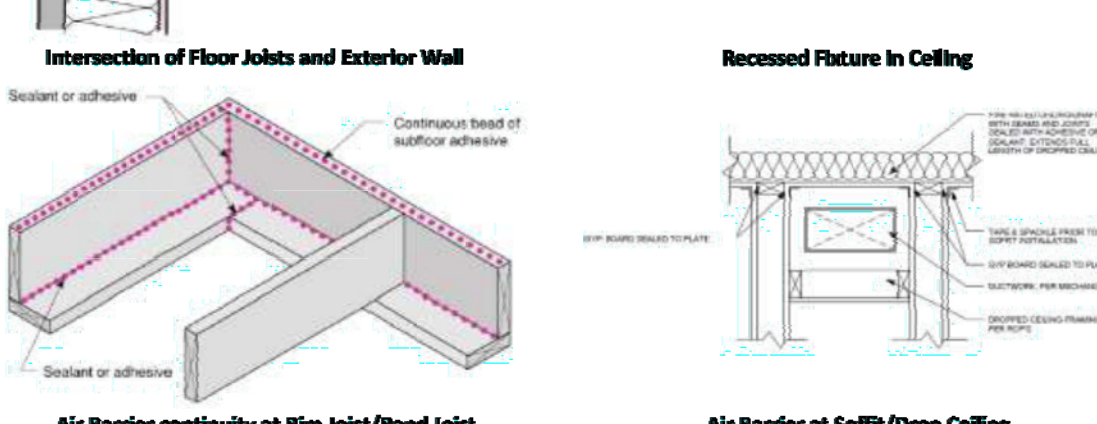
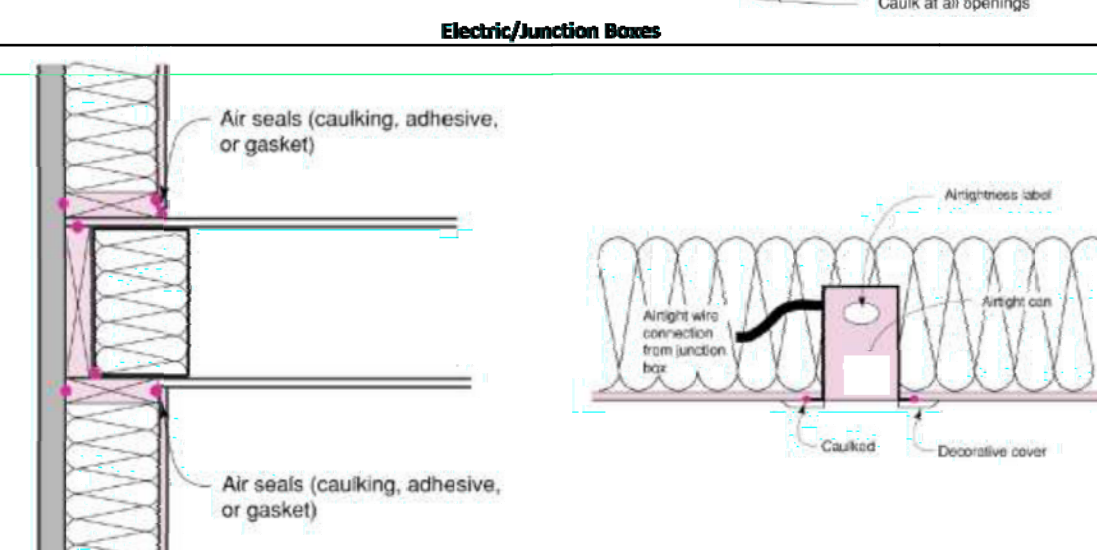


OTHER HVAC SYSTEM SEALING BEST PRACTICES



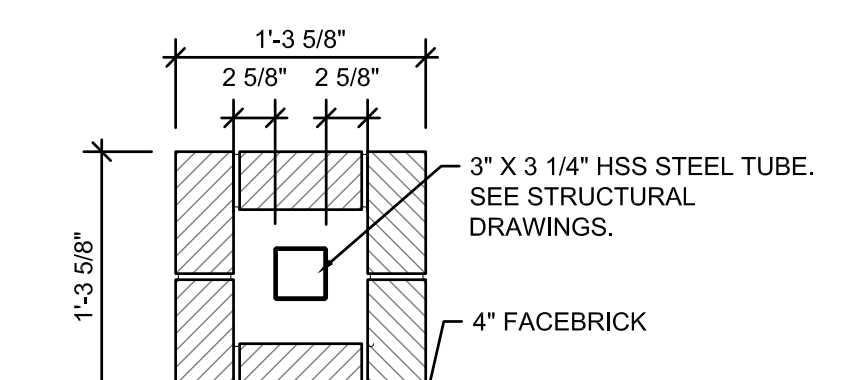
Seal Duct Boots to Subfloor (before installing supply and return grills)
 HVAC DISTRIBUTION SYSTEM TIGHTNESS

Seal Duct Boots to Drywall (before installing supply and return grills)

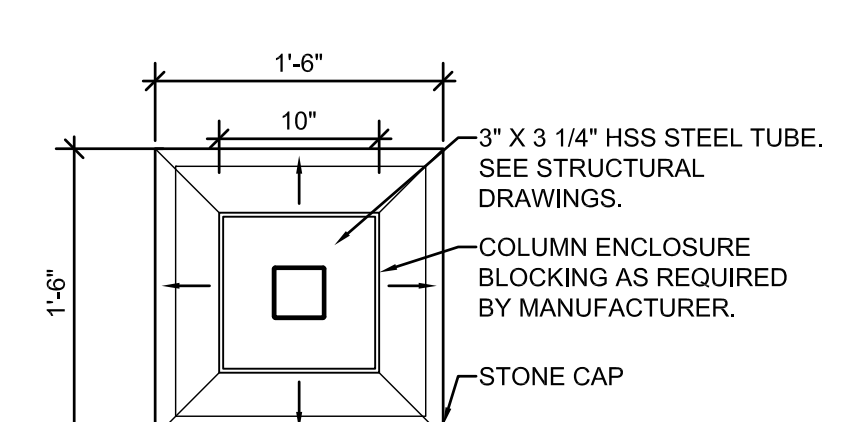


Air Barrier continuity at Rim Joist/Band Joist
 Air Barrier at Soffit/Drop Ceiling

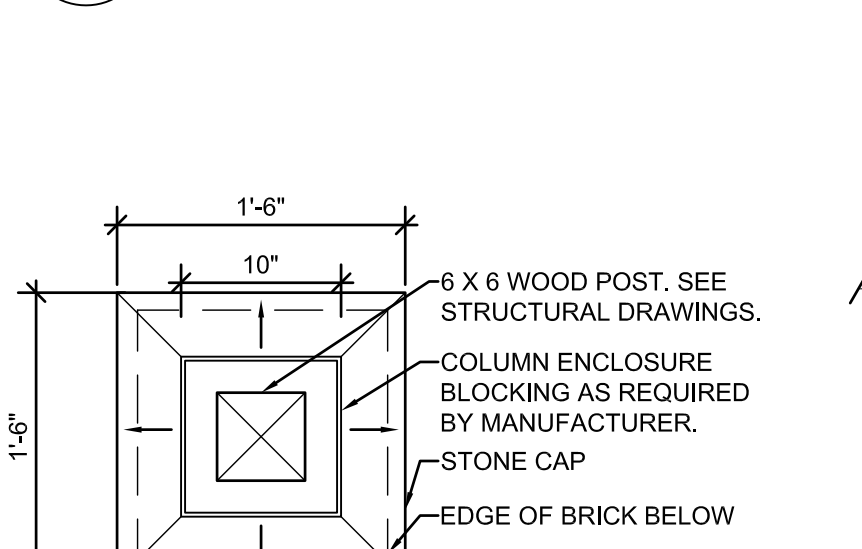
- OTHER ENVELOPE SEALING BEST PRACTICES
- Gaskets installed on attic access doors
 - Backdraft prevention mechanisms in place on any appliances (dryer, kitchen and bath exhausts)
 - Plumbing and electrical fixtures' penetrations sealed at drywall behind escutcheons
 - Circuit breaker panel and stud cavity isolated from adjacent building cavities
 - Seal plank flooring from below with flash coat of spray foam, or dense pack floor cavities with cellulose, or use other sealant



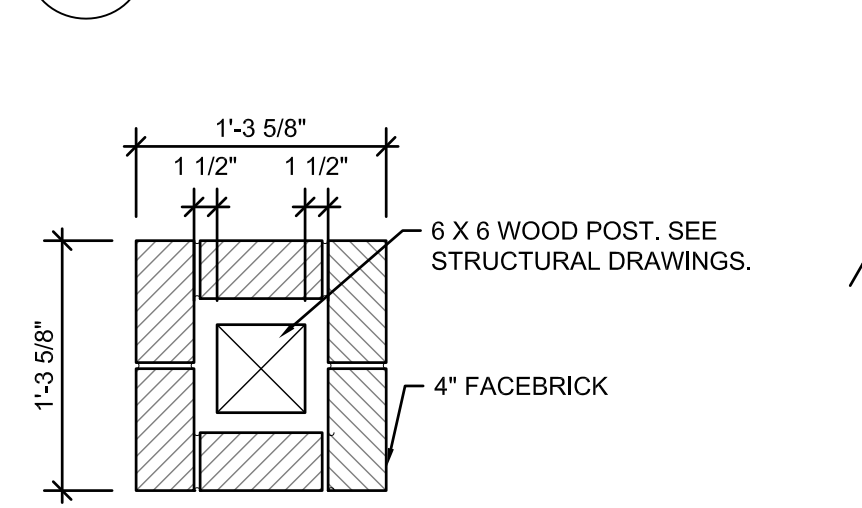
9 COLUMN DETAIL
 A403 SCALE: 1" = 1'-0"



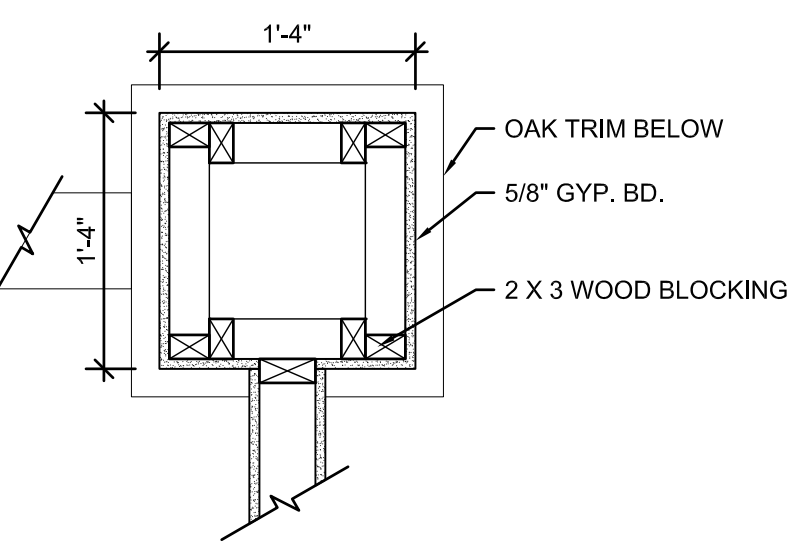
8 COLUMN DETAIL
 A403 SCALE: 1" = 1'-0"



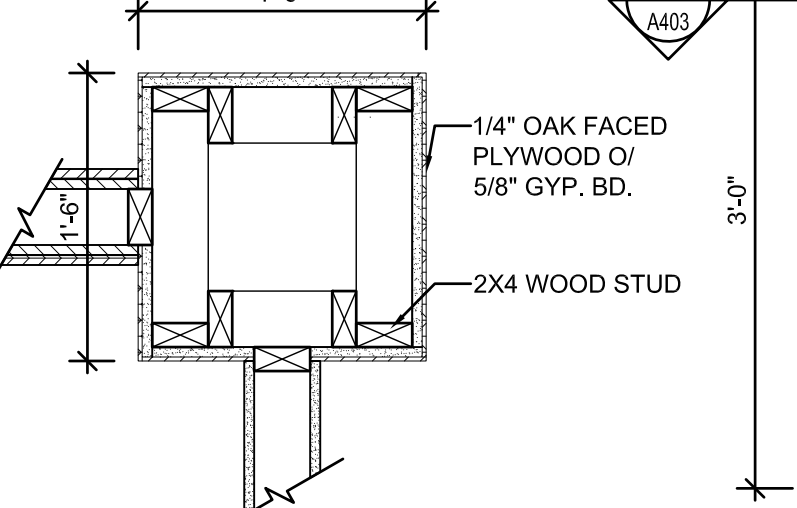
7 COLUMN DETAIL
 A403 SCALE: 1" = 1'-0"



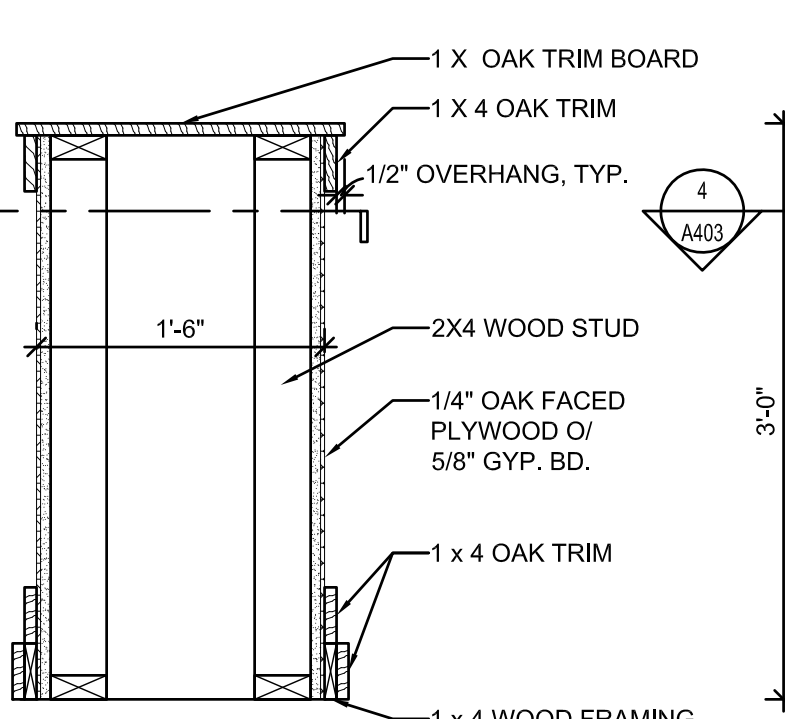
5 COLUMN DETAIL
 A403 SCALE: 1" = 1'-0"



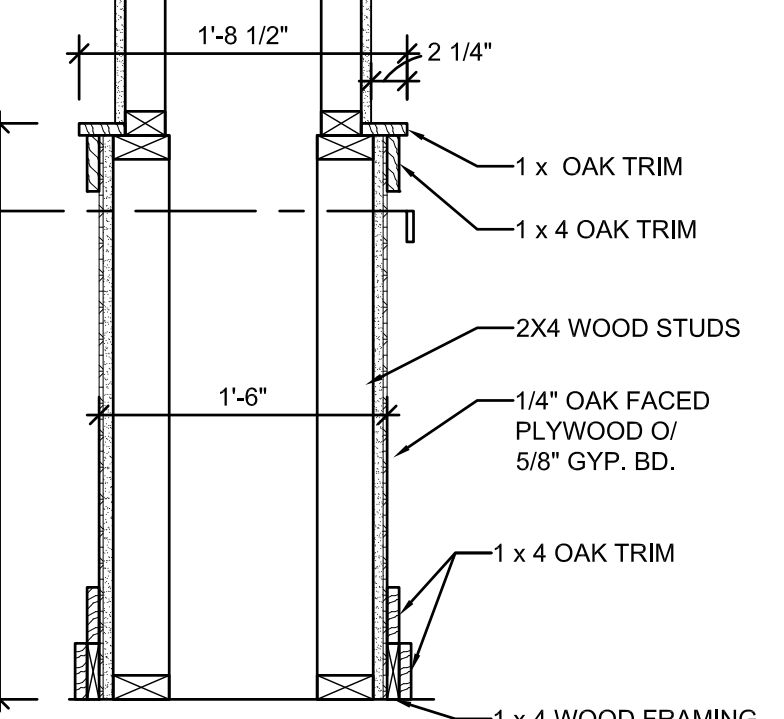
6 COLUMN DETAIL
 A403 SCALE: 1" = 1'-0"



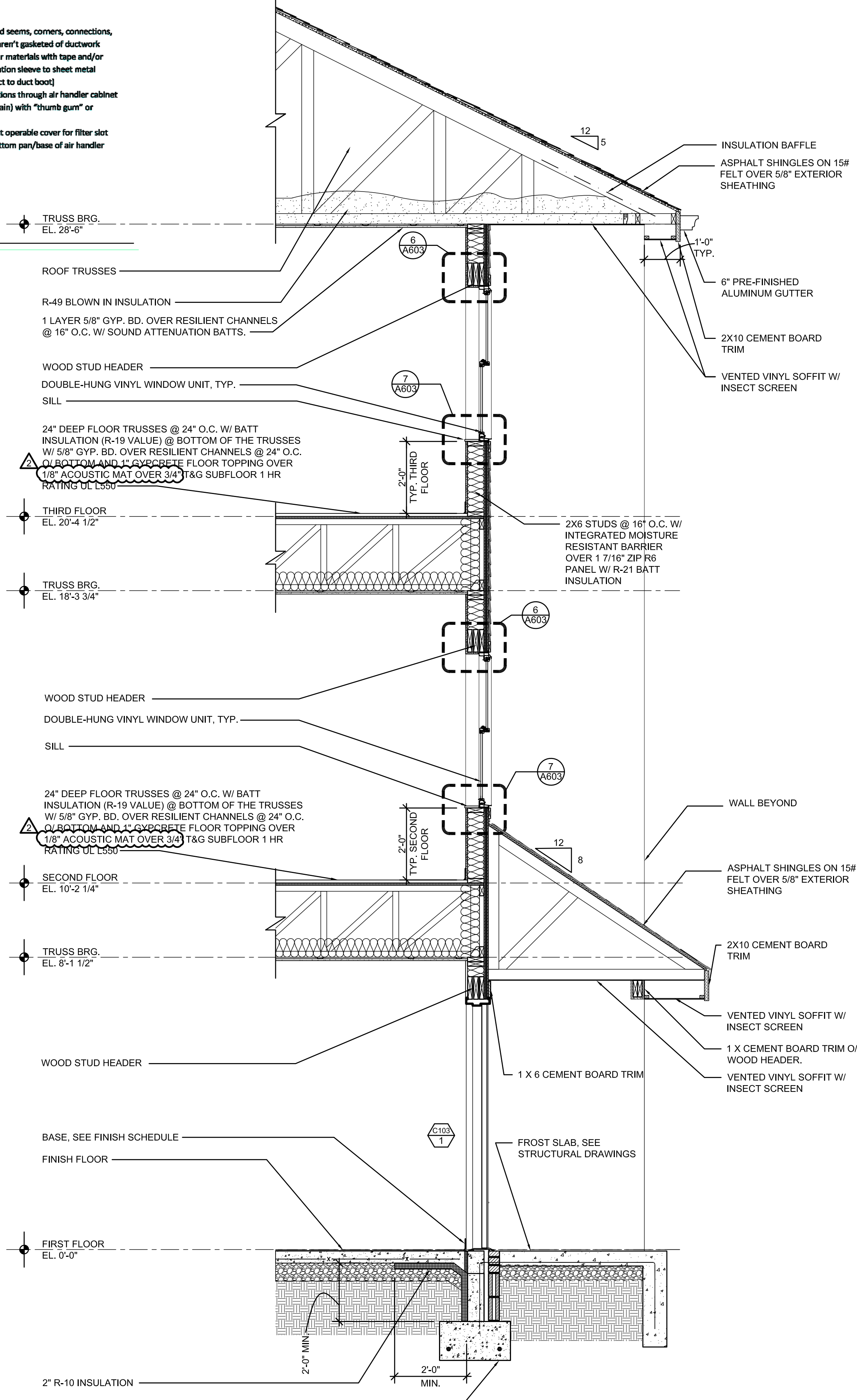
4 COLUMN DETAIL
 A403 SCALE: 1" = 1'-0"



3 COLUMN SECTION
 A403 SCALE: 1" = 1'-0"

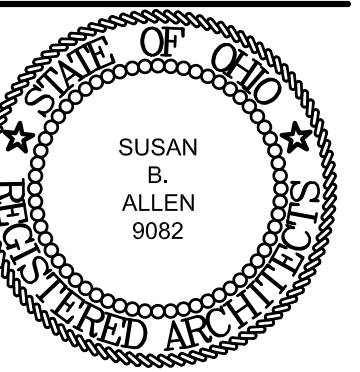


2 COLUMN SECTION
 A403 SCALE: 1" = 1'-0"



1 WALL SECTION
 A403 SCALE: 1/2" = 1'-0"

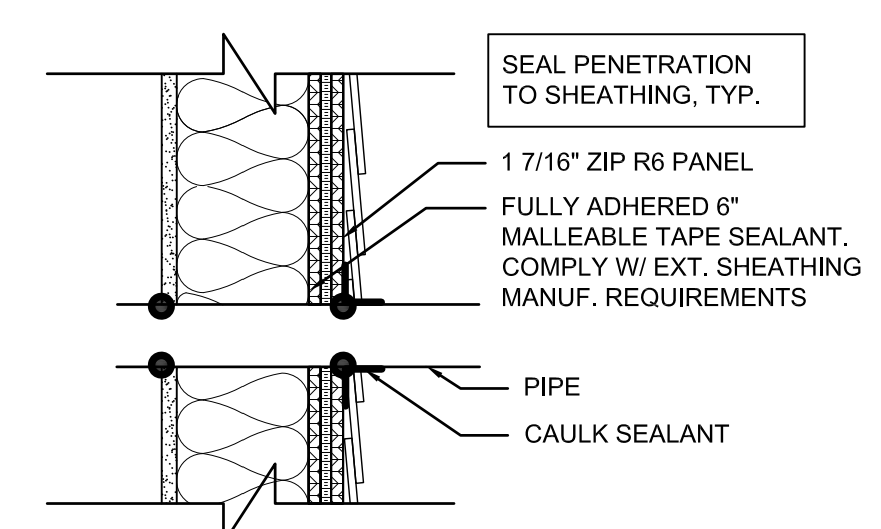
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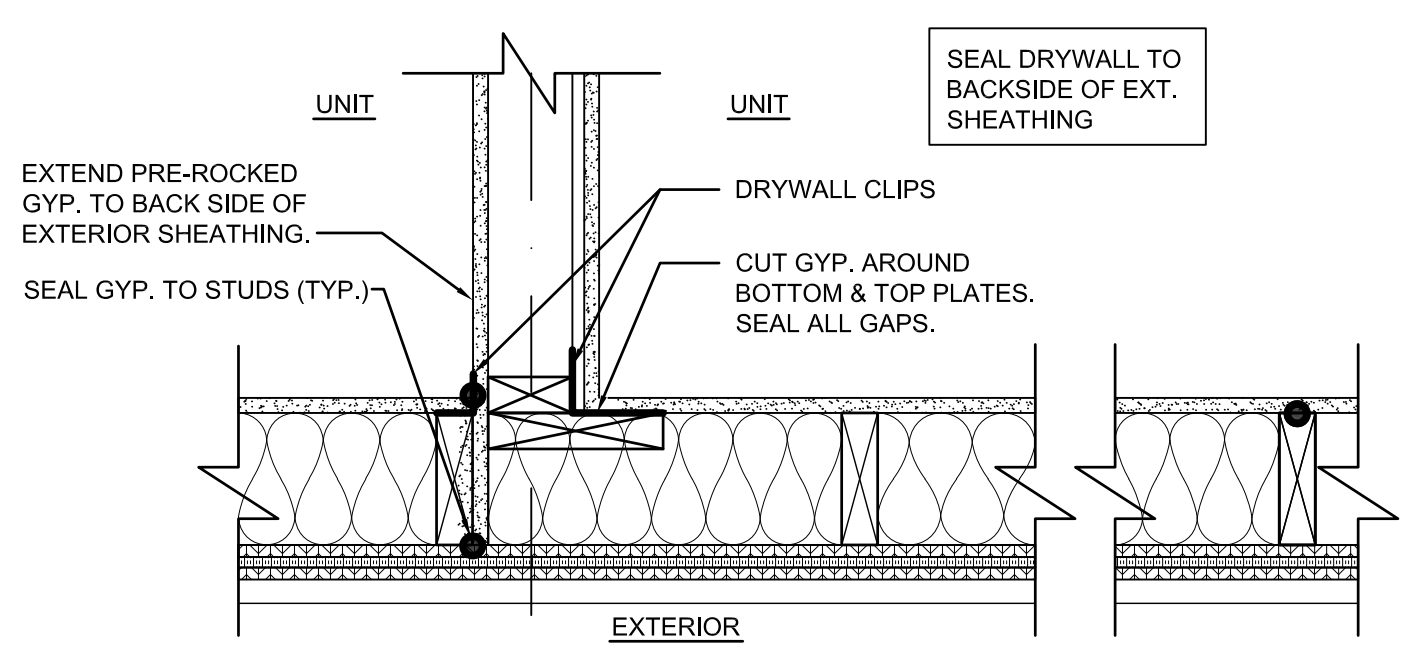
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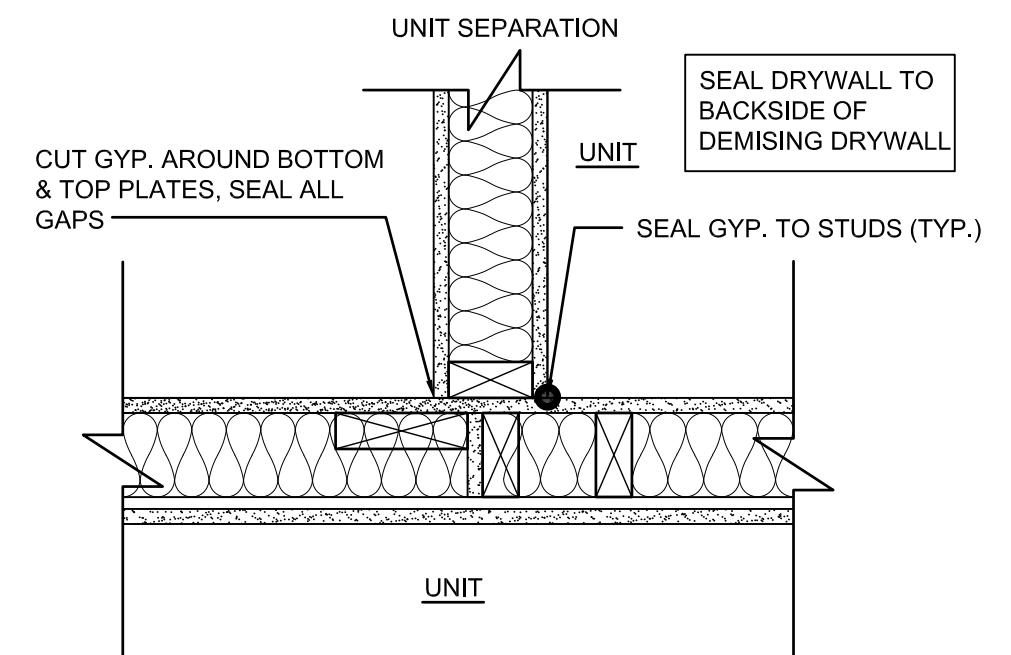
- ### BUILDING ENVELOPE NOTES
1. EXTERIOR SHEATHING TO HAVE INTEGRATED WEATHER BARRIER.
 2. PROVIDE ZIP TAPE AT ALL WINDOWS AND PENETRATIONS.
 3. PROVIDE INTERIOR AIR SEALING OF TOP AND BOTTOM PLATES PER LEED REQUIREMENTS.
 4. PROVIDE BUG SCREENS ON ALL NON-DRYER VENT EXHAUSTS AND INTAKES.
 5. PROVIDE EXTERIOR CAULKING AT MASONRY CONTROL JOINTS AND WHERE THE FIBER CEMENT LAP SIDING MEETS VERTICAL TRIM BOARDS.
 6. PROVIDE FLASHING WHERE HORIZONTAL LAP SIDING MEETS HORIZONTAL TRIM BOARDS AND MASONRY.
 7. PROVIDE MASONRY FLASHING AND WEEPS PER CONSTRUCTION DETAILS.
 8. PROVIDE ADEQUATE DRAINAGE PLANE PER CONSTRUCTION DETAILS.



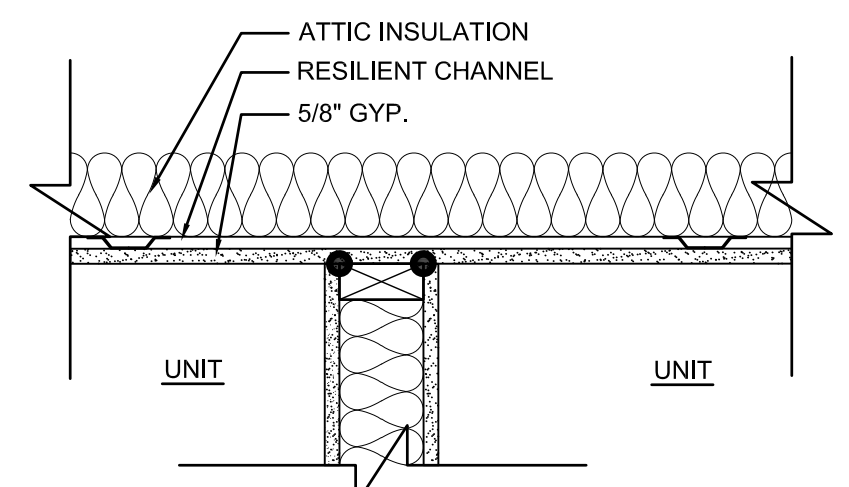
10
A404
SCALE: 1 1/2" = 1'-0"



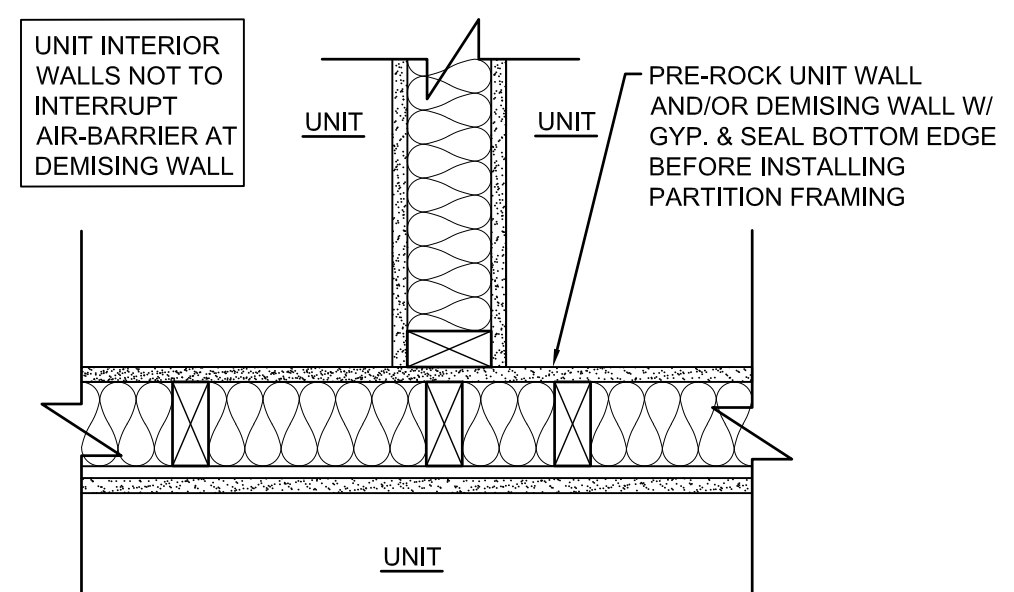
6
A404
SCALE: 1 1/2" = 1'-0"



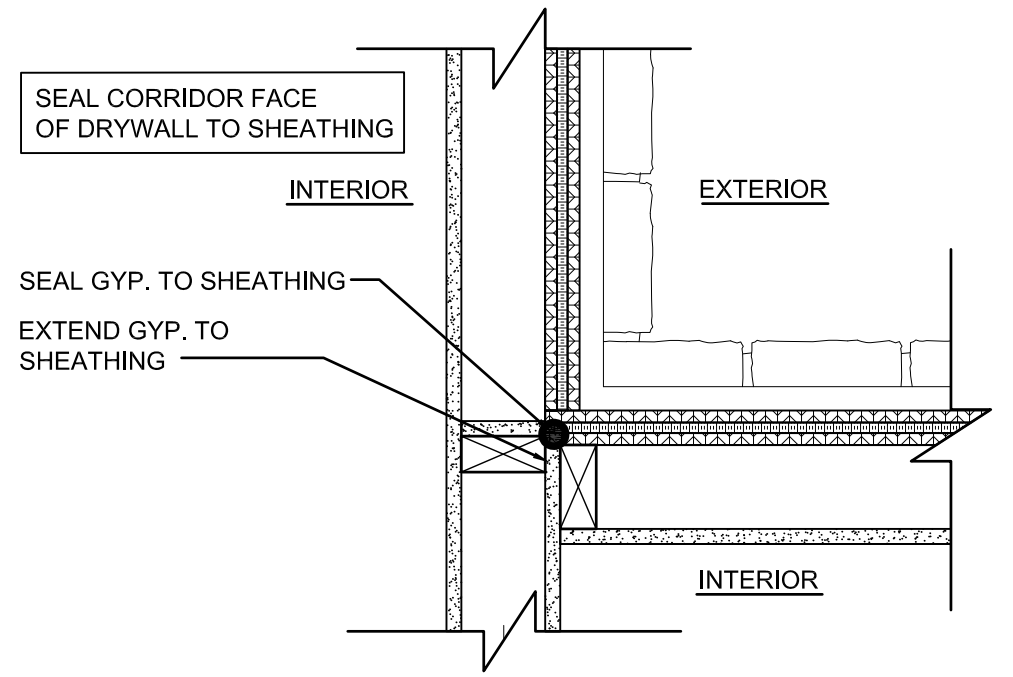
4
A404
SCALE: 1 1/2" = 1'-0"



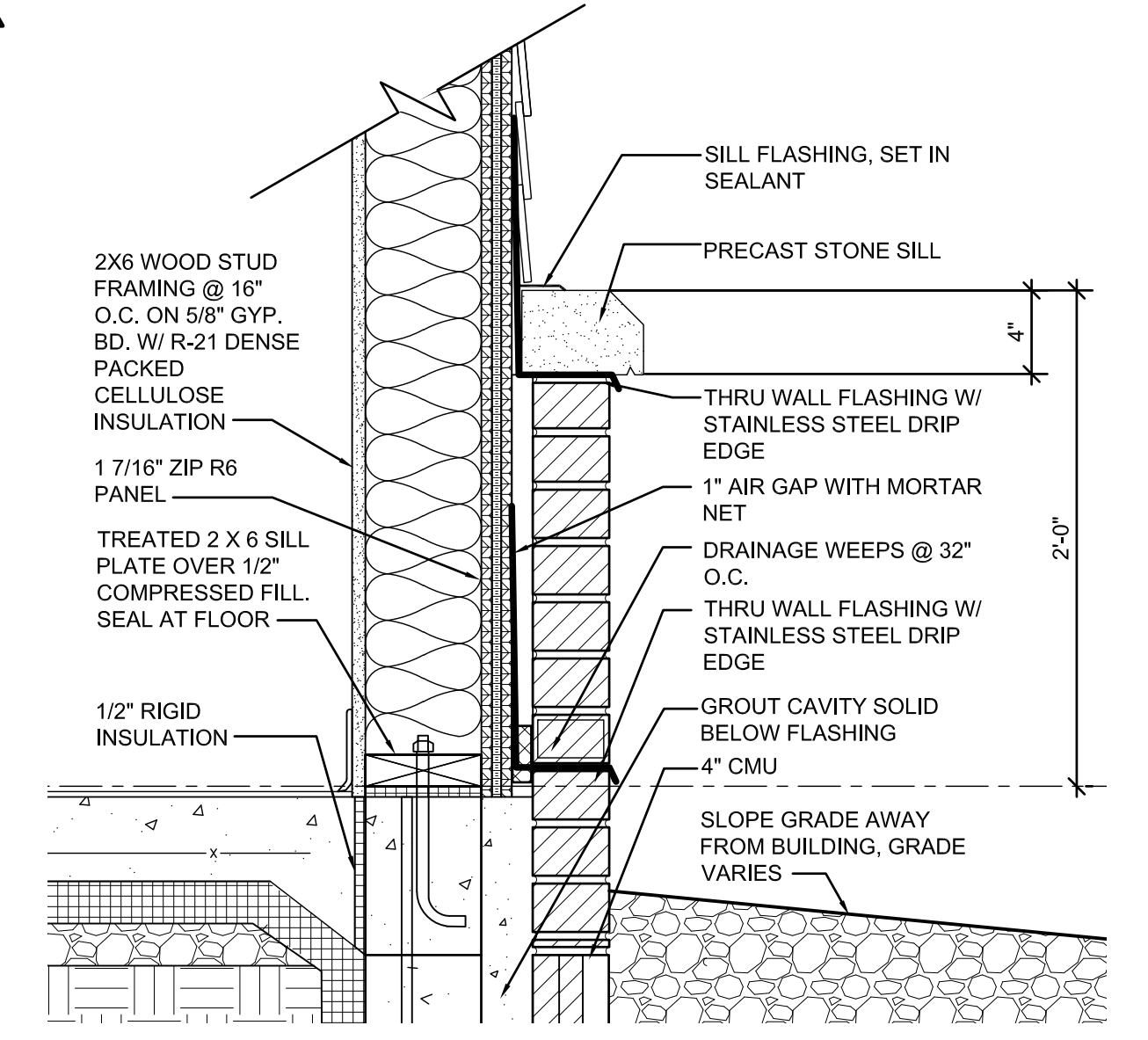
9
A404
SCALE: 1 1/2" = 1'-0"



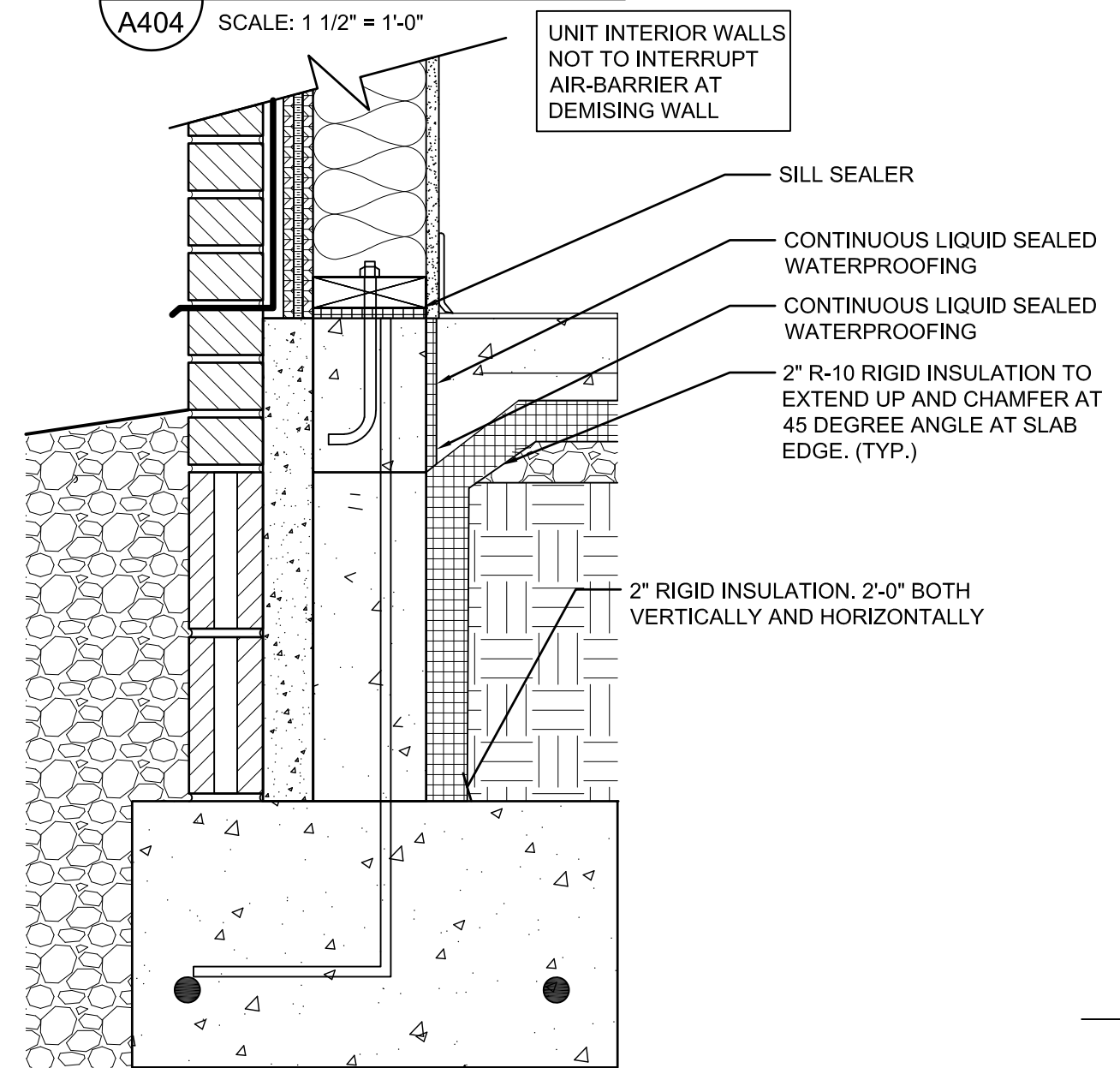
5
A404
SCALE: 1 1/2" = 1'-0"



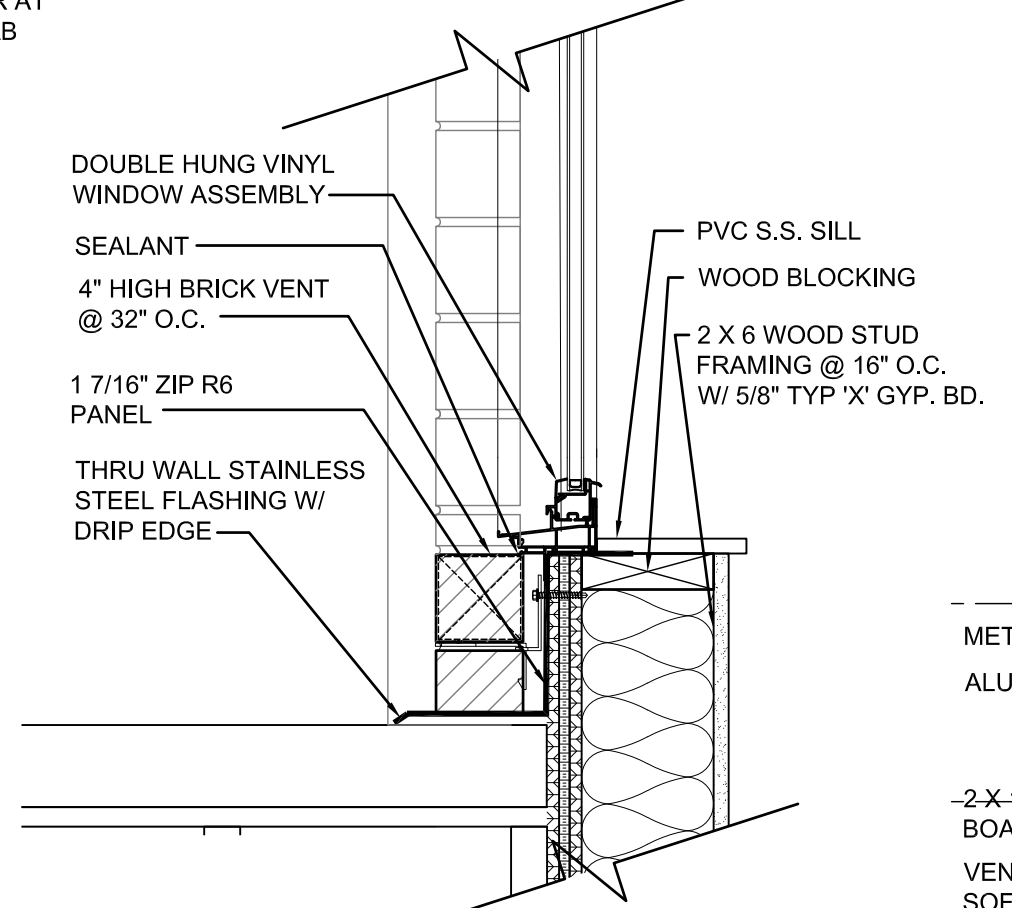
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A404
SCALE: 1 1/2" = 1'-0"



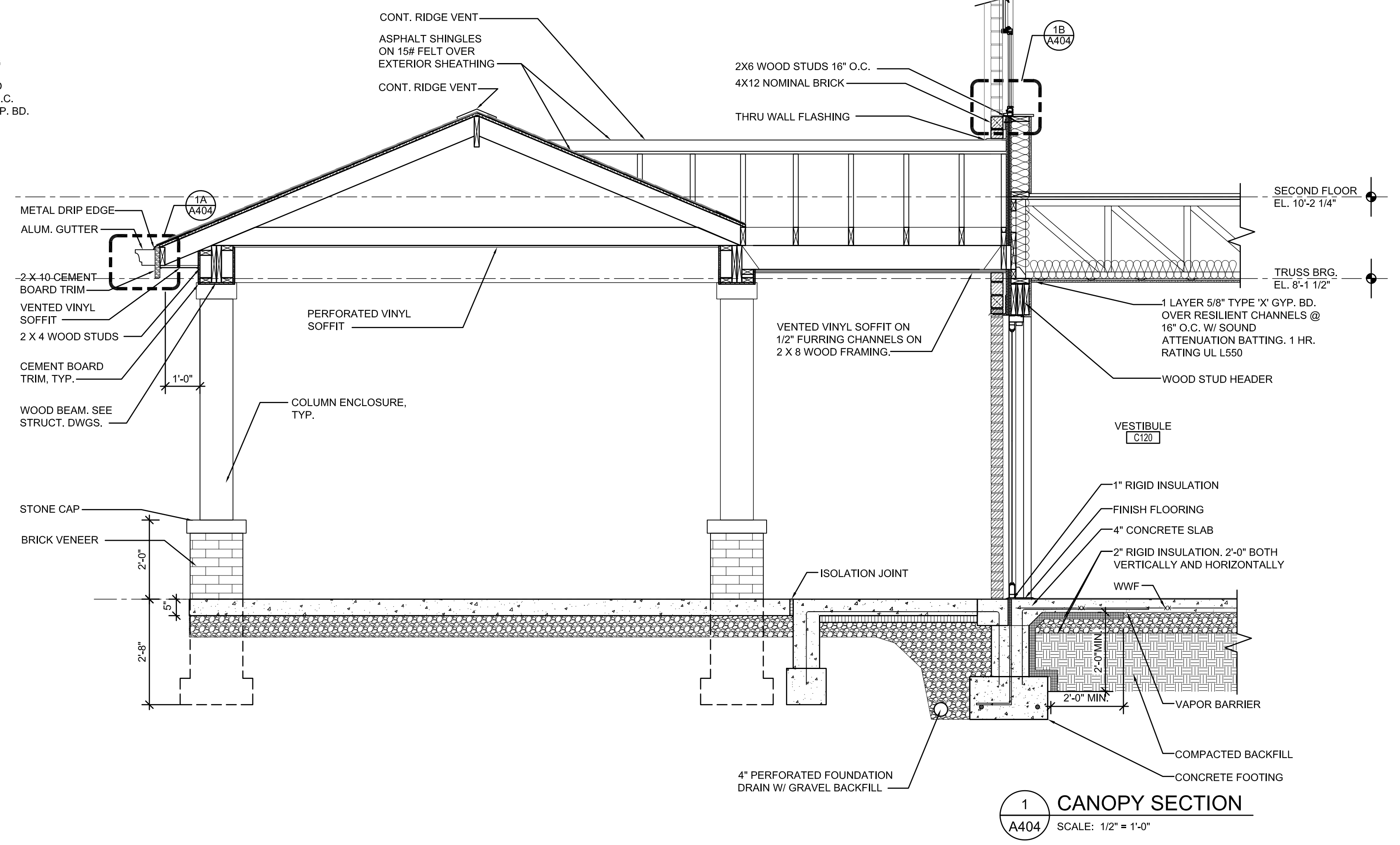
2
A404
SCALE: 1 1/2" = 1'-0"



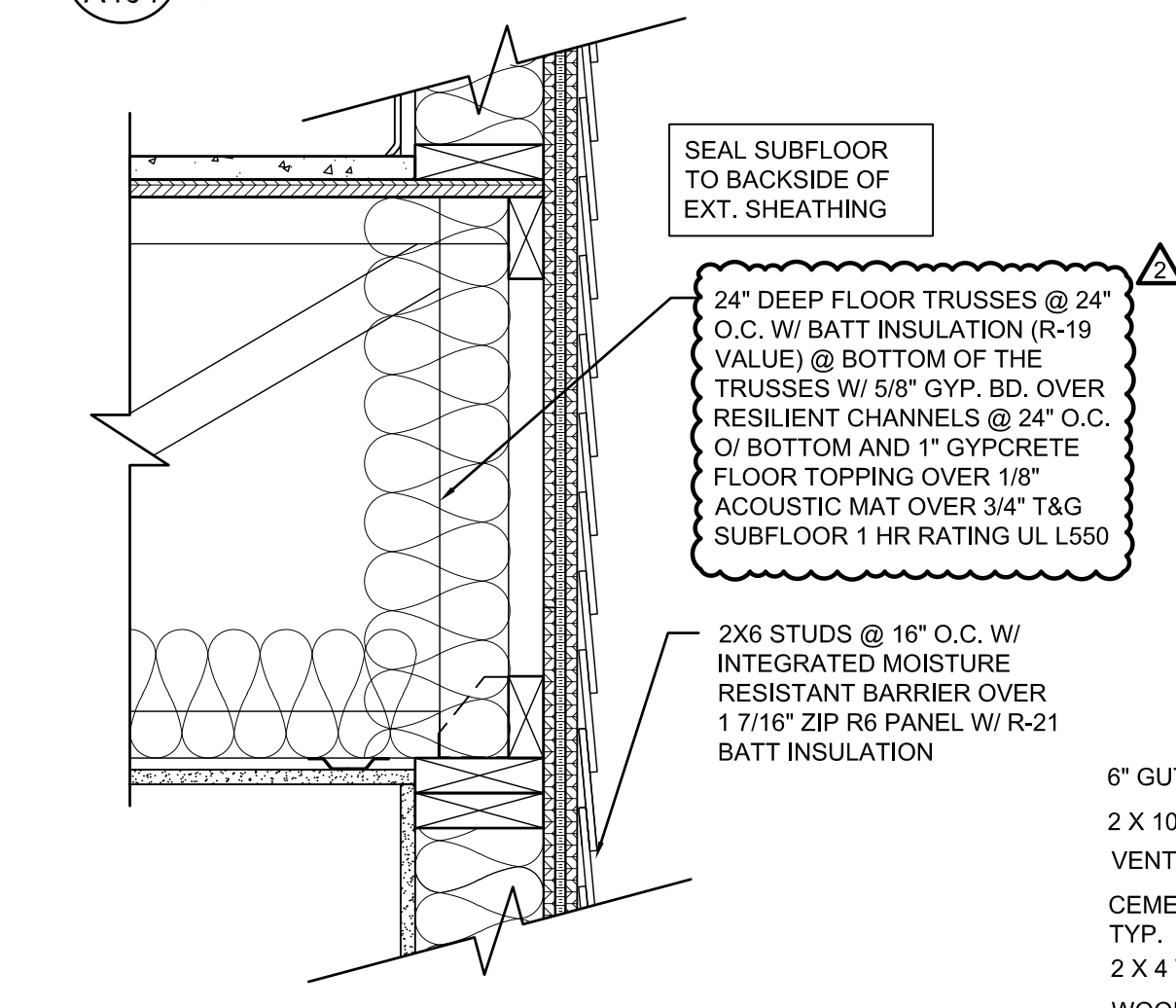
8
A404
SCALE: 1 1/2" = 1'-0"



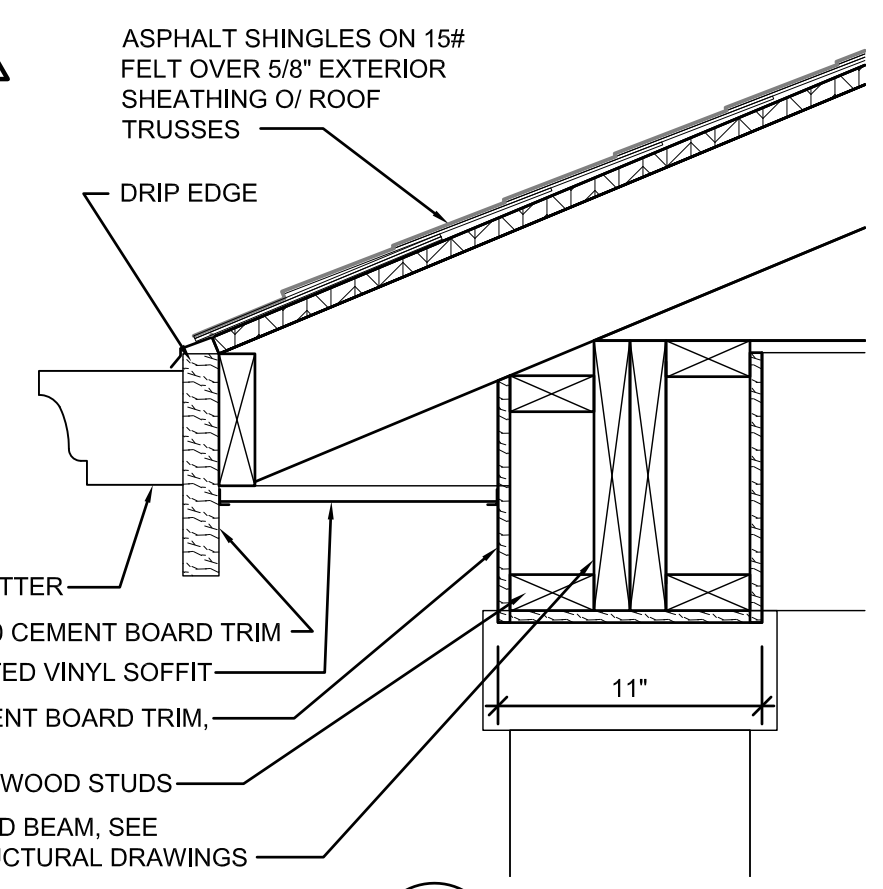
1B
A404
SCALE: 1 1/2" = 1'-0"



1
A404
SCALE: 1/2" = 1'-0"



7
A404
SCALE: 1 1/2" = 1'-0"



1A
A404
SCALE: 1 1/2" = 1'-0"

CANOPY & AIR SEAL DETAILS
GERMANTOWN CROSSING
DAYTON OHIO

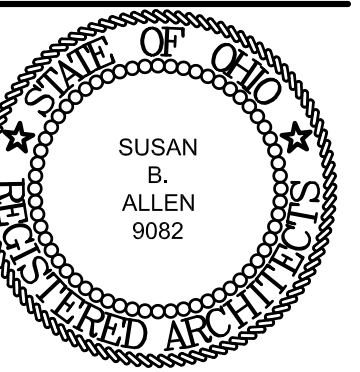


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TURNING VISIONS
INTO REALITY

03/31/2023
DATE
82A21
PROJECT NUMBER

A404
DRAWING NUMBER



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ENLARGED COMMON AREA PLANS
GERMANTOWN CROSSING
DAYTON OHIO



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03/31/2023

DATE

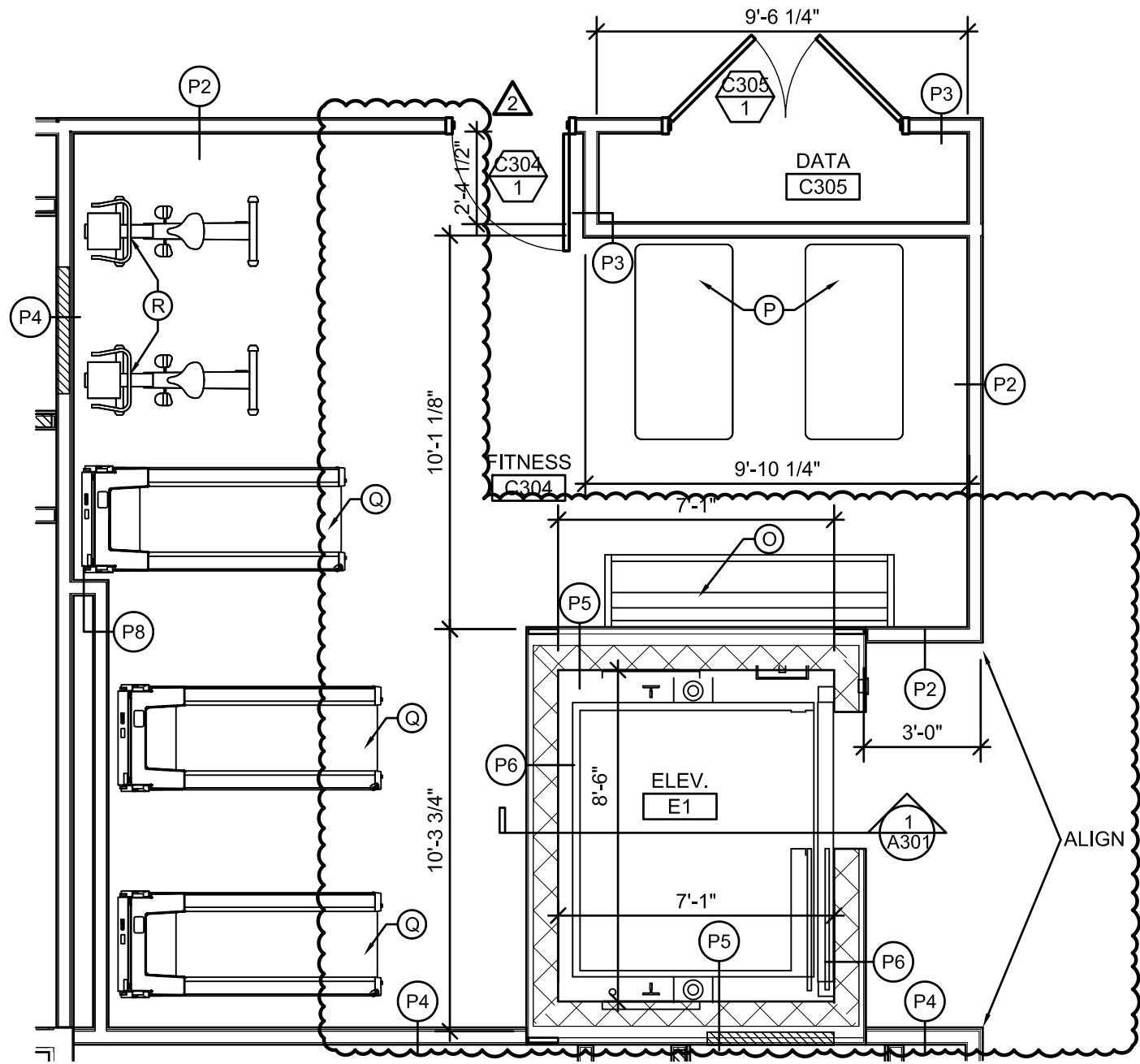
82A21

PROJECT NUMBER

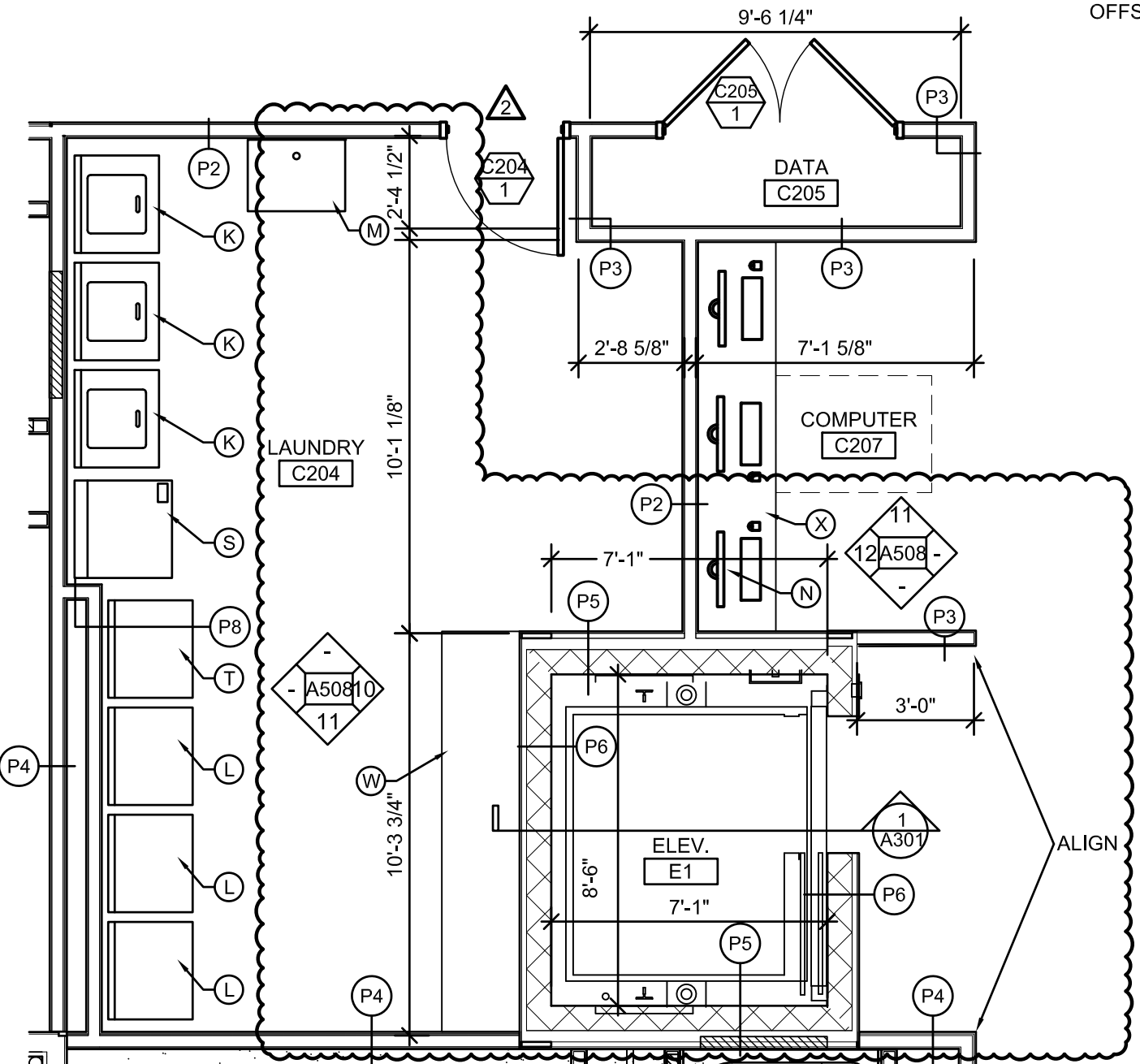
A506
DRAWING NUMBER

COMMON AREA CODED NOTES

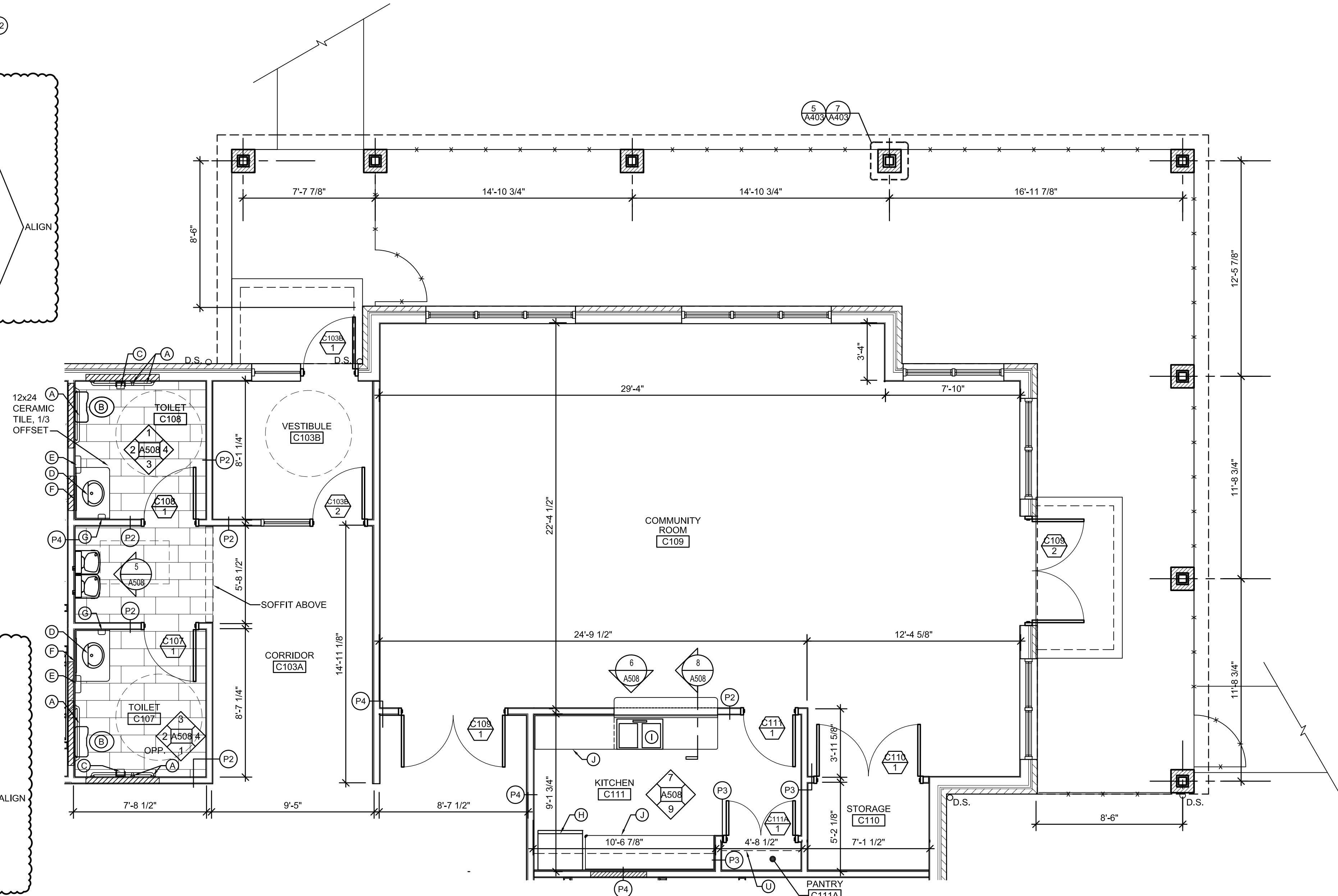
- | | | | | |
|--|--|-----------------------------|---------------------------------|--|
| (A) GRAB BARS | (F) REFLECTIVE SURFACE | (K) WASHER (OFCI) | (Q) TREADMILL W/ HANDLES (OFCI) | (V) DECORATIVE WOOD SUPPORT BRACKET |
| (B) TOILET | (G) SOAP DISPENSER | (L) DRYER, (OFCI) | (R) STATIONARY BICYCLE (OFCI) | (W) SS-2 COUNTERTOP, SIDE & BACKSPLASH |
| (C) TOILET PAPER HOLDER | (H) ACCESSIBLE REFRIGERATOR | (M) MOP SINK | (S) FRONT LOAD WASHER (OFCI) | (X) SS-3 COUNTERTOP, SIDE & BACKSPLASH |
| (D) CULTURED MARBLE VANITY COUNTERTOP (CM-1) W/ INTEGRAL SINK AND FAUCET | (I) KITCHEN SINK AND FAUCET | (N) COMPUTER | (T) FRONT LOAD DRYER (OFCI) | (Y) ADJUSTABLE SHELVING ON BRACKETS (5 TYP.) |
| (E) PAPER TOWEL HOLDER | (J) SS-1 COUNTERTOP, SIDE & BACKSPLASH | (O) FREE WEIGHT RACK (OFCI) | (U) STEP MACHINE (OFCI) | |
- GENERAL NOTE : ALL ELEVATOR CONTROLS SHALL COMPLY WITH ACCESSIBILITY STANDARDS



3 ENLARGED 3RD FLOOR FITNESS ROOM
A506 SCALE: 1/4" = 1'-0" *EQUIPMENT (NIC) *



2 ENLARGED 2ND LAUNDRY & COMPUTER
A506 SCALE: 1/4" = 1'-0"



1 ENLARGED KITCHEN RESTROOM & COMMUNITY SPACE
A506 SCALE: 1/4" = 1'-0"

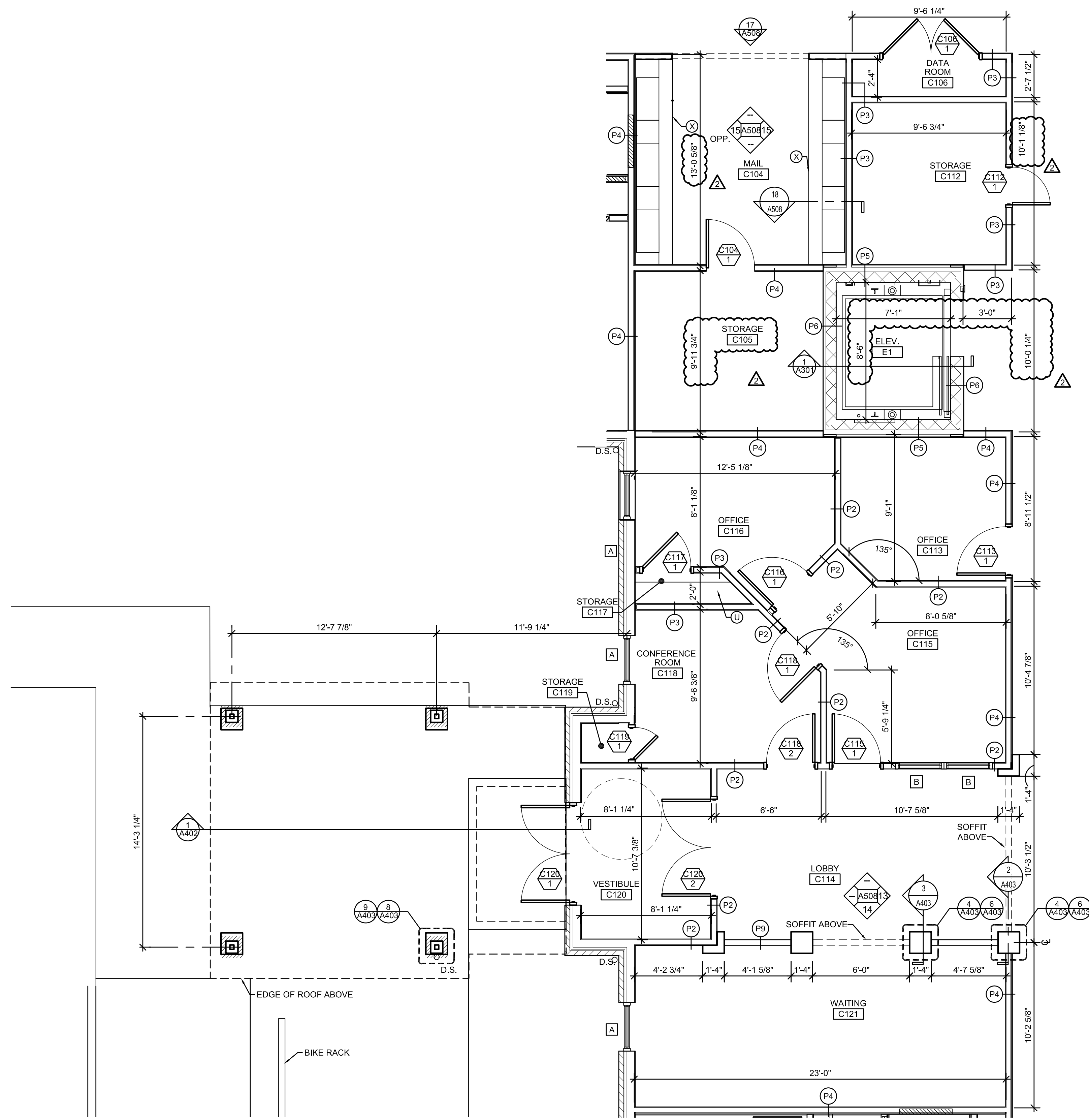
W:\GDP\Germantown Crossing-82A21\05DWgs\3CDA506 A507 A508.dwg Oct 16, 2023 - 12:52pm

W:\GDP\Germantown Crossing-82A21\05DWgs\CD\A506 A507 A508.dwg Oct 16, 2023 - 12:47pm

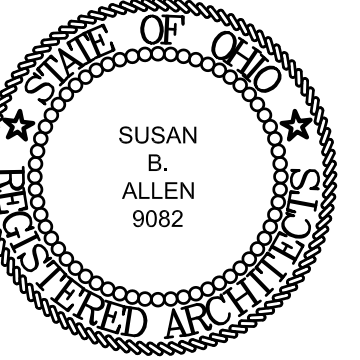
COMMON AREA CODED NOTES

- (A) GRAB BARS
- (B) TOILET
- (C) TOILET PAPER HOLDER
- (D) CULTURED MARBLE VANITY COUNTERTOP (CM-1) W/ INTEGRAL SINK AND FAUCET
- (E) PAPER TOWEL HOLDER
- (F) REFLECTIVE SURFACE
- (G) SOAP DISPENSER
- (H) ACCESSIBLE REFRIGERATOR
- (I) KITCHEN SINK AND FAUCET
- (J) SS-1 COUNTERTOP, SIDE & BACKSLASH
- (K) WASHER (OFCI)
- (L) DRYER, (OFCI)
- (M) MOP SINK
- (N) COMPUTER
- (O) FREE WEIGHT RACK (OFCI)
- (P) STEP MACHINE (OFCI)
- (Q) TREADMILL W/ HANDLES (OFCI)
- (R) STATIONARY BICYCLE (OFCI)
- (S) FRONT LOAD WASHER (OFCI)
- (T) FRONT LOAD DRYER (OFCI)
- (U) ADJUSTABLE SHELVING ON BRACKETS (5 TYP.)
- (V) DECORATIVE WOOD SUPPORT BRACKET
- (W) SS-2 COUNTERTOP, SIDE & BACKSLASH
- (X) SS-3 COUNTERTOP, SIDE & BACKSLASH

GENERAL NOTE : ALL ELEVATOR CONTROLS SHALL COMPLY WITH ACCESSIBILITY STANDARDS



1 ENLARGED 1ST FLOOR LOBBY, OFFICES & DATA
A507 SCALE: 1/4" = 1'-0"



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Expiration Date 12/31/2023

- REVISIONS
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 - ▲ BULLETIN 03 10/16/2023

ENLARGED COMMON AREA PLANS
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03/31/2023

DATE

82A21

PROJECT NUMBER

A507
DRAWING NUMBER

DOOR SCHEDULE - UNITS

DOOR NO.	ROOM NAME	SIZE	DOOR					FRAMES		RATING	DETAILS			HARDWARE SET	NOTES:
			THICK.	HEIGHT	TYPE	MAT.	GLASS TYPE	TYPE	MAT.		HEAD	JAMB	SILL		
1 BEDROOM - TYPICAL UNIT															
A01/1	ENTRY	3'-0"	1 3/4"	6'-8"	C	STL.	--	1	HM	20 MIN.	4 / A604	3 / A604	--	A	--
A03/1	CLOSET	2'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
A05/1	UTILITY	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	D	PRE-HUNG
A06/1	BEDROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
A07/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
A08/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
A08/2	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	18 / A604	17 / A604	--	--	POCKET DOOR
1 BEDROOM - MU UNIT															
B01/1	ENTRY	3'-0"	1 3/4"	6'-8"	C	STL.	--	1	HM	20 MIN.	4 / A604	3 / A604	--	A	--
B05/1	CLOSET	2'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
B06/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
B06/2	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	18 / A604	17 / A604	--	--	POCKET DOOR
B07/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
A08/1	BEDROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
B09/1	UTILITY	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	D	PRE-HUNG
2 BEDROOM - TYPICAL UNIT / SENSORY UNIT															
C01/1	ENTRY	3'-0"	1 3/4"	6'-8"	C	STL.	--	1	HM	20 MIN.	4 / A604	3 / A604	--	A	--
C02/1	CLOSET	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
C03/1	PANTRY	2'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
C04/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
C04A/1	LINEN	1'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
C05/1	BEDROOM 1	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
C06/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
C07/1	BEDROOM 2	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
C08/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
C10/1	UTILITY	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	D	PRE-HUNG
2 BEDROOM - MU UNIT															
D01/1	ENTRY	3'-0"	1 3/4"	6'-8"	C	STL.	--	1	HM	20 MIN.	4 / A604	3 / A604	--	A	--
D02/1	CLOSET	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
D03/1	UTILITY	2'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	D	PRE-HUNG
D04/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
D04A/1	LINEN	1'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
D05/1	BEDROOM 1	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
D06/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
D07/1	BEDROOM 2	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
D08/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
D10/1	UTILITY	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	D	PRE-HUNG
3 BEDROOM - TYPICAL UNIT															
F01/1	ENTRY	3'-0"	1 3/4"	6'-8"	C	STL.	--	1	HM	20 MIN.	4 / A604	3 / A604	--	A	--
F02/1	CLOSET	2'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
F03/1	LINEN	2'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
F04/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
F05/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
F06/1	BEDROOM 3	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
F08/1	UTILITY	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	D	PRE-HUNG
F10/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
F11/1	BEDROOM 1	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
F14/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
F15/1	LINEN	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
F16/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
F17/1	BEDROOM 2	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
3 BEDROOM - MU UNIT															
G01/1	ENTRY	3'-0"	1 3/4"	6'-8"	C	STL.	--	1	HM	20 MIN.	4 / A604	3 / A604	--	A	--
G02/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
G03/1	PANTRY	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
G04/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
G04A/1	LINEN	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
G05/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
G06/1	BEDROOM 3	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
G08/1	UTILITY	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	D	PRE-HUNG
G10/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
G11/1	BEDROOM 1	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
G14/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
G16/1	LINEN	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
G17/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
G18/1	BEDROOM 2	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG

GENERAL DOOR NOTES

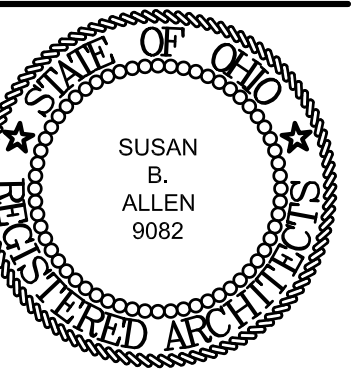
- DOOR CLOSERS FOR COMMON AREAS SUCH AS RESTROOMS, MAIN ENTRY & ACCESSIBLE UNIT ENTRY DOOR MUST HAVE DELAYED ACTION FEATURE THAT HOLDS DOOR OPEN FOR A MINIMUM OF 5 SECOND.

DOOR LEGEND:

MARK	DESCRIPTION
INSUL. HM	INSULATED HOLLOW METAL
WD	SOLID CORE WOOD
AL	ALUMINUM STOREFRONT
HM	HOLLOW METAL
MCD	SOLID CORE MOLDED COMPOSITE DOOR
STL	STEEL
GL	GLASS

DOOR SCHEDULE - COMMON AREA

DOOR NO.	ROOM NAME	SIZE	DOOR					FRAMES		RATING	DETAILS			HARDWARE SET	NOTES:
			THICK.	HEIGHT	TYPE	MAT.	GLASS TYPE	TYPE	MAT.		HEAD	JAMB	SILL		
FIRST FLOOR															
C101/1	TRASH	3'-0"	1 3/4"	7'-0"	A	HM	--	1	HM	45 MIN.	4 / A604	3 / A604	--	12	--
C102/1	TRASH COMPACTOR	PR. 4'-0"	1 3/4"	7'-0"	A	INSUL. HM	--	1	HM	60 MIN.	14 / A604	13 / A604	12 / A604	6	--
C102/2	TRASH COMPACTOR	3'-0"	1 3/4"	7'-0"	A	HM	--	1	HM	60 MIN.	4 / A604	3 / A604	--	5	--
C103/1	CORRIDOR	3'-0"	1 3/4"	7'-0"	A	AL	--	1	AL	--	9 / A604	8 / A604	7 / A604	4	DOOR ACCESS CONTROL
C103B/1	VESTIBULE	3'-0"	1 3/4"	7'-0"	B	AL / GL	--	1	AL	--	16 / A604	15 / A604	--	2A	AUTOMATIC DOOR OPENER / DOOR ACCESS CONTROL
C103B/2	VESTIBULE	3'-0"	1 3/4"	7'-0"	B	AL / GL	--	2	AL	--	9 / A604	8 / A604	7 / A604	1A	AUTOMATIC DOOR OPENER
C105/1	STORAGE	3'-0"	1 3/4"	7'-0"	A	HM	--	1	HM	--	4 / A604	3 / A604	--	7A	--
C106/1	DATA	PR. 3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	7	--
C107/1	TOILET	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	10	--
C108/1	TOILET	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	10	--
C109/1	COMMUNITY ROOM	PR. 3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	20 MIN.	4 / A604	3 / A604	--	9	--
C109/2	COMMUNITY ROOM	PR. 3'-0"	1 3/4"	7'-0"	B	AL / GL	--	1	AL	--	11 / A604	10 / A604	7 / A604	9A	--
C110/1	STORAGE	PR. 3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	7	--
C111/1	KITCHEN	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	11	--
C111A/1	PANTRY	PR. 2'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	7	--
C112/1	STORAGE	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	7A	--
C113/1	OFFICE	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	20 MIN.	4 / A604	3 / A604	--	3	--
C115/1	OFFICE	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	3	--
C116/1	OFFICE	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	3	--
C117/1	STORAGE														



SUSAN B. ALLEN
License #9082
Expiration Date 12/31/2023

- REVISIONS
- ▲ BULLETIN 01 07/17/2023
 - ▲ BULLETIN 02 09/19/2023
 - ▲ BULLETIN 03 10/16/2023

WINDOW SCHEDULE & DETAILS
 GERMANTOWN CROSSING
 DAYTON OHIO



ARCHITECTS

430 GRANT STREET
AKRON, OH 44311
PHONE: (330) 867-1093
www.tcarchitects.com

TURNING VISIONS
INTO REALITY

03/31/2023
DATE
82A21
PROJECT NUMBER

A603
DRAWING NUMBER

GLASS TYPES

- ① SEALED INSULATING GLASS UNIT W/ SAFETY GLAZING
- ② TINTED SAFETY GLAZING

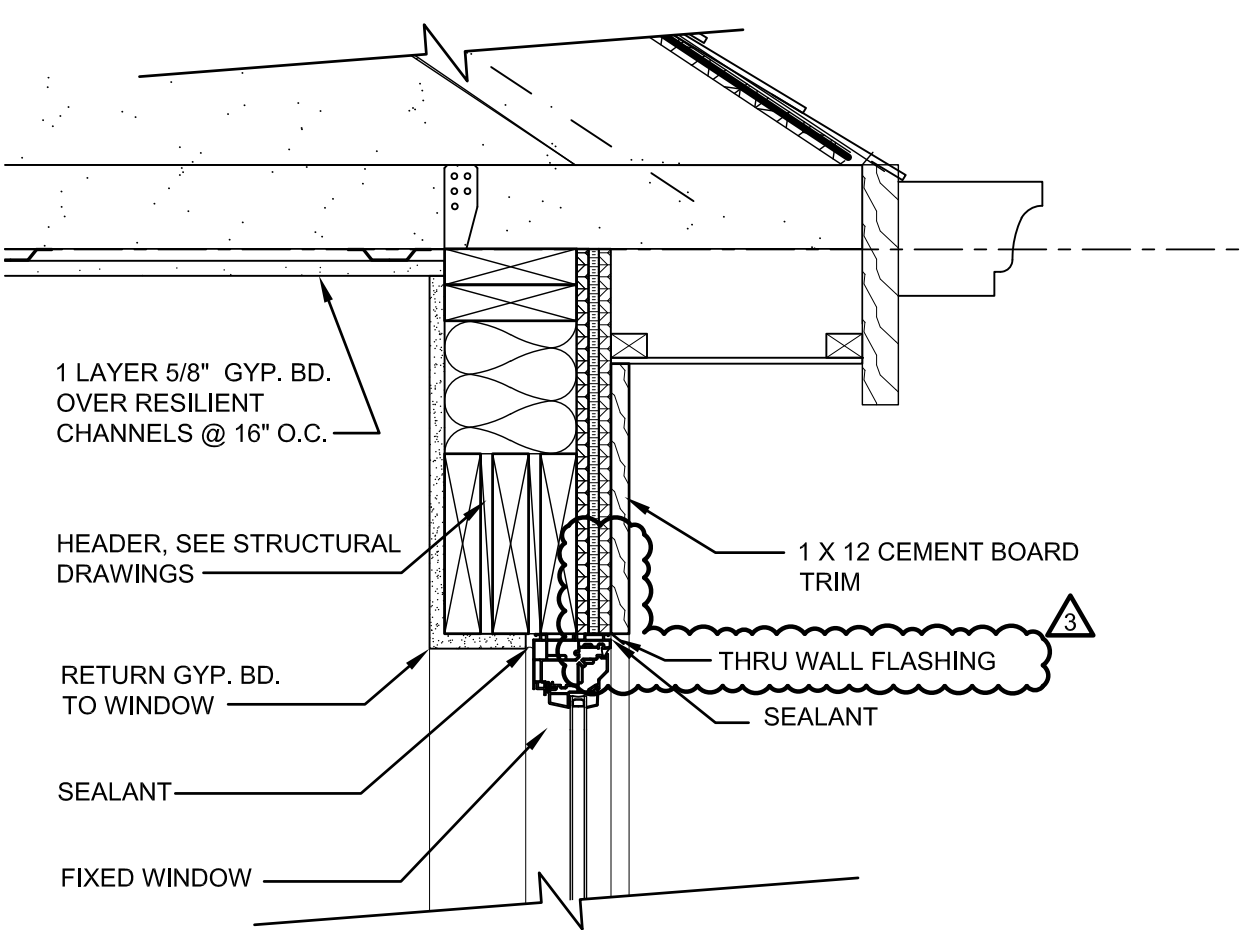
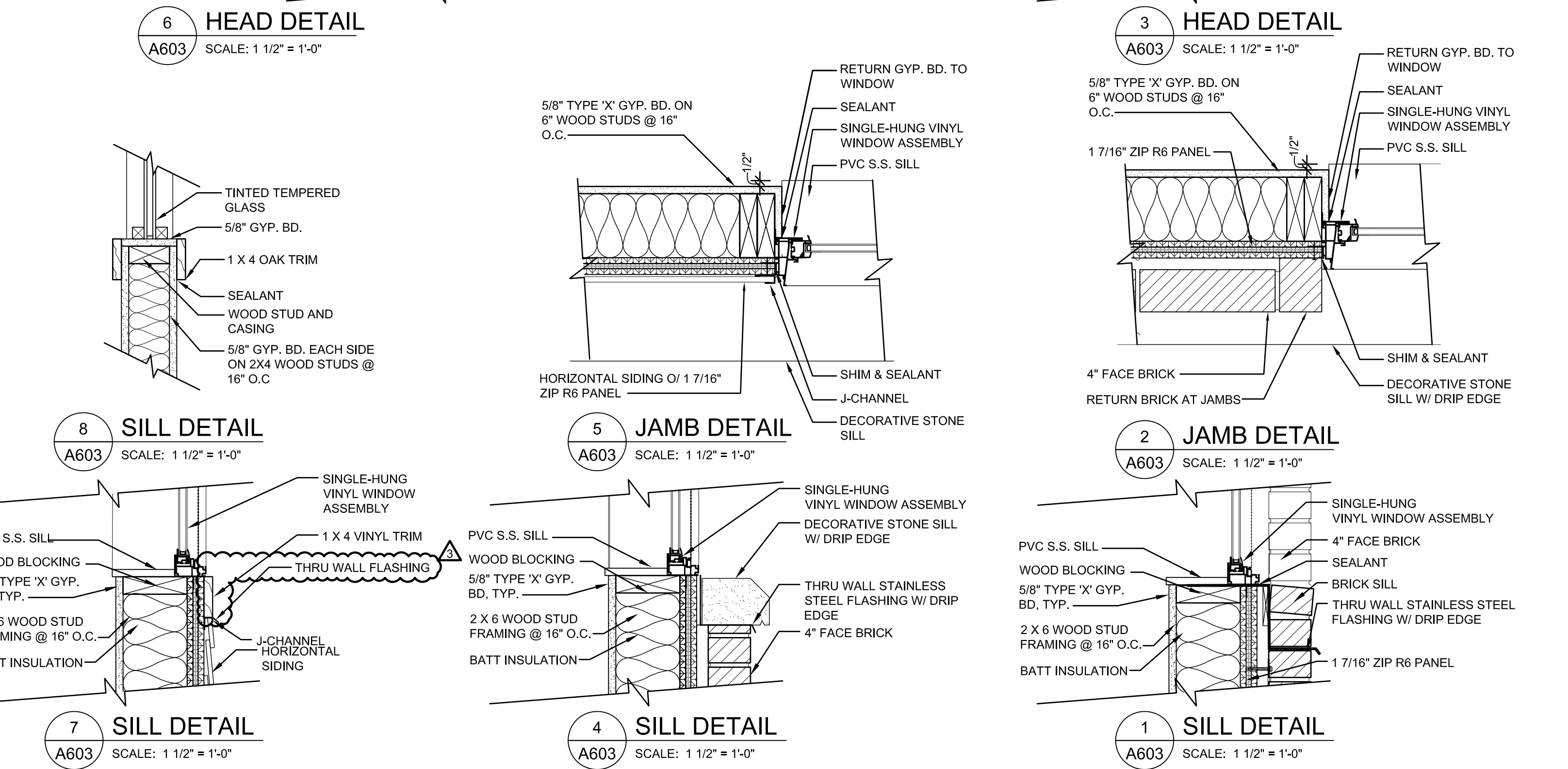
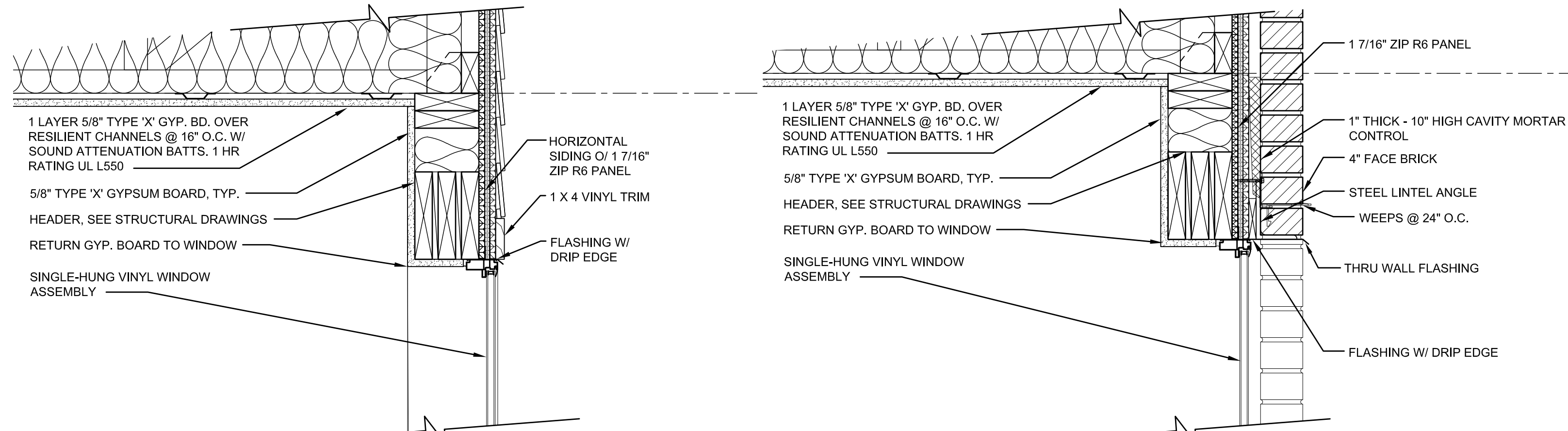
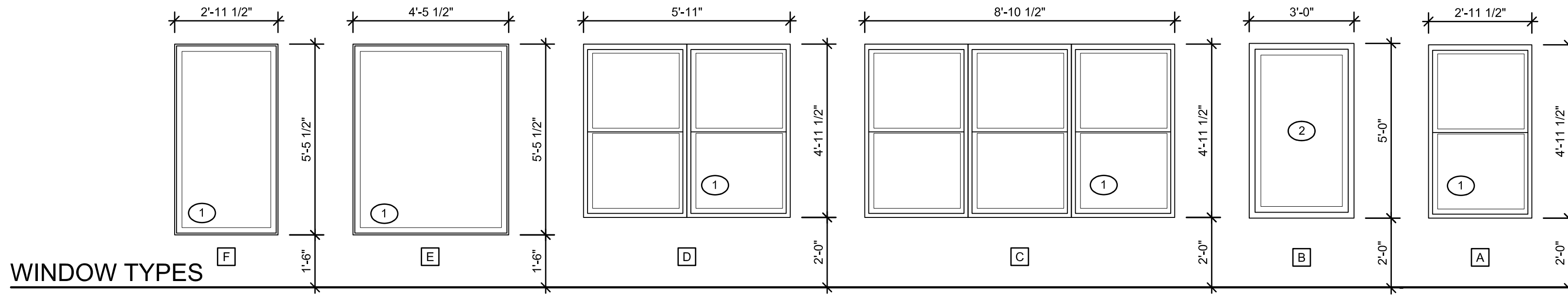
GENERAL NOTES

1. SEE PARTITION TYPES ON A601 FOR ADDITIONAL WALL INFORMATION

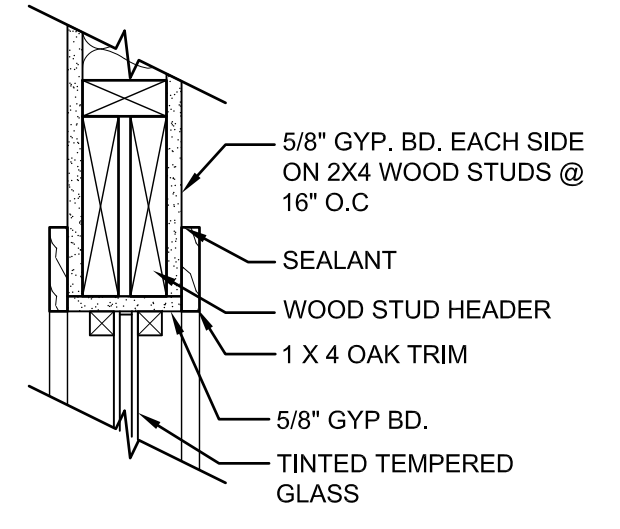
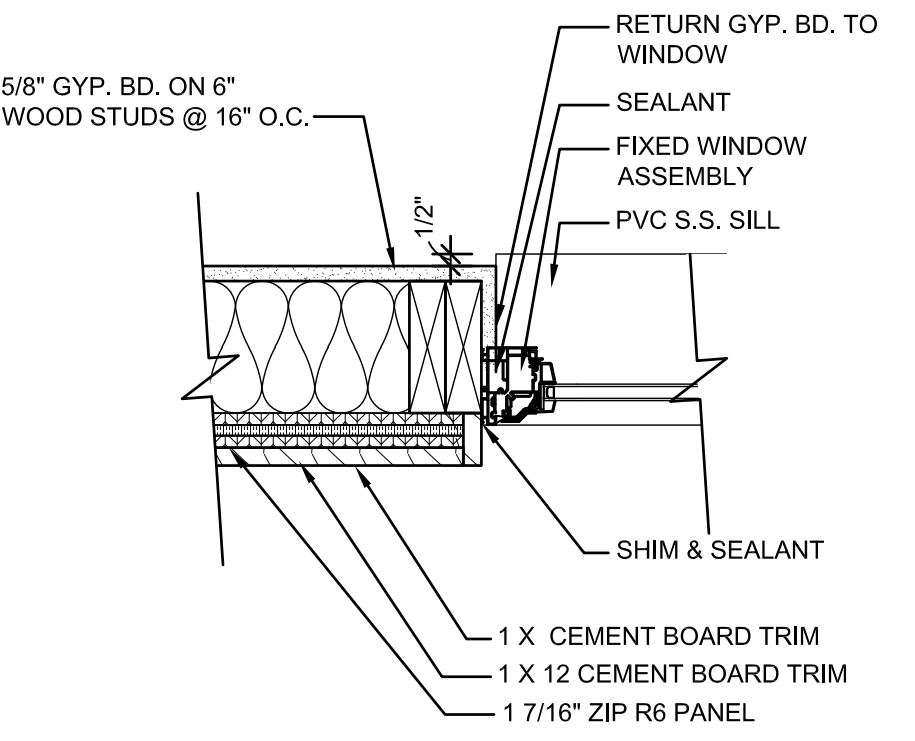
WINDOW SCHEDULE

TYPE	SIZE (H X W)	MATERIAL	GLASS TYPE	HEAD	JAMB	SILL	REMARKS
EXTERIOR WINDOWS							
A	4'-11 1/2" X 2'-11 1/2"	VINYL	1	3, 6 / A603	2, 5 / A603	1, 4, 7 / A603, 1B / A404	--
C	4'-11 1/2" X 8'-10 1/2"	VINYL	1	3 / A603	2 / A603	1 / A603	--
D	4'-11 1/2" X 5'-11"	VINYL	1	3 / A603	2 / A603	1 / A603	--
E	5'-5 1/2" X 4'-5 1/2"	VINYL	1	13 / A603	10 / A603	11 / A603	--
F	5'-5 1/2" X 2'-11 1/2"	VINYL	1	13 / A603	10 / A603	11 / A603	--
INTERIOR WINDOWS							
B	3'-0" X 5'-0"	WOOD	2	10 / A603	9 / A603	8 / A603	-

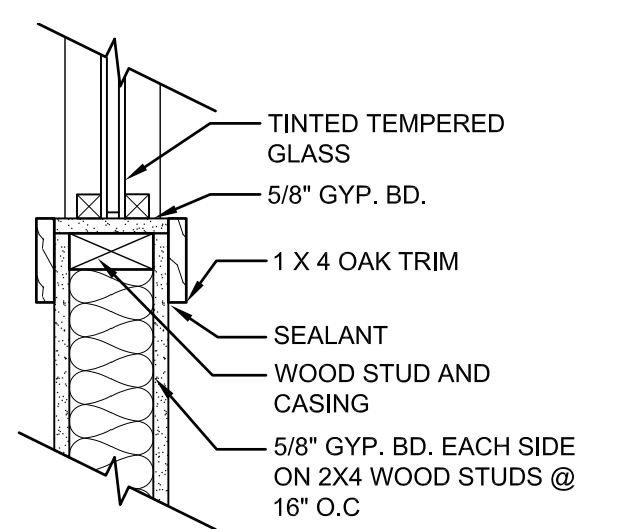
NOTE:
 1. VINYL WINDOWS: U-VALUE 0.3
 2. SEALED INSULATED GLASS: U-VALUE 0.28
 3. ALL WINDOWS ARE TO HAVE BLINDS.



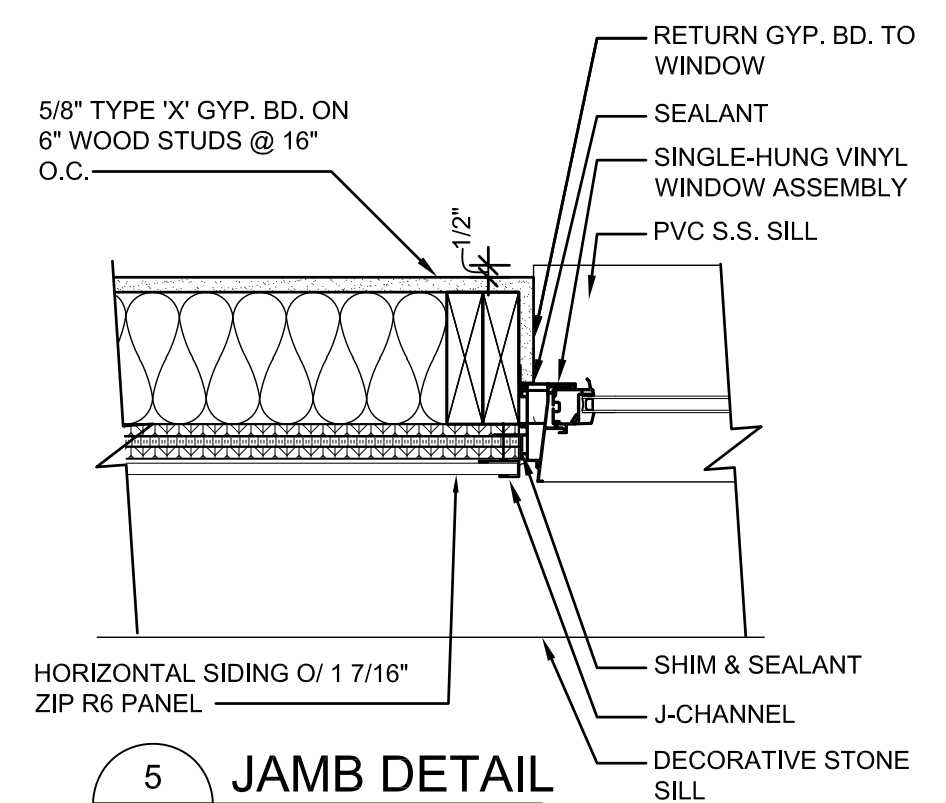
13 SILL DETAIL
A603 SCALE: 1 1/2" = 1'-0"



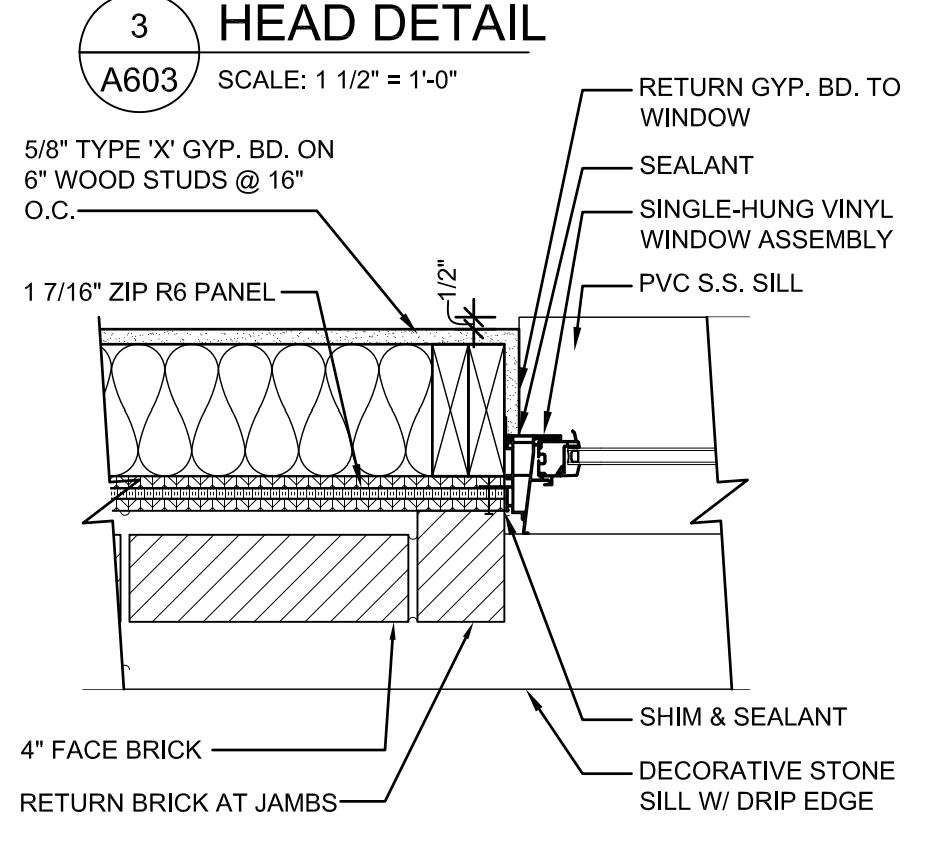
10 HEAD DETAIL
A603 SCALE: 1 1/2" = 1'-0"



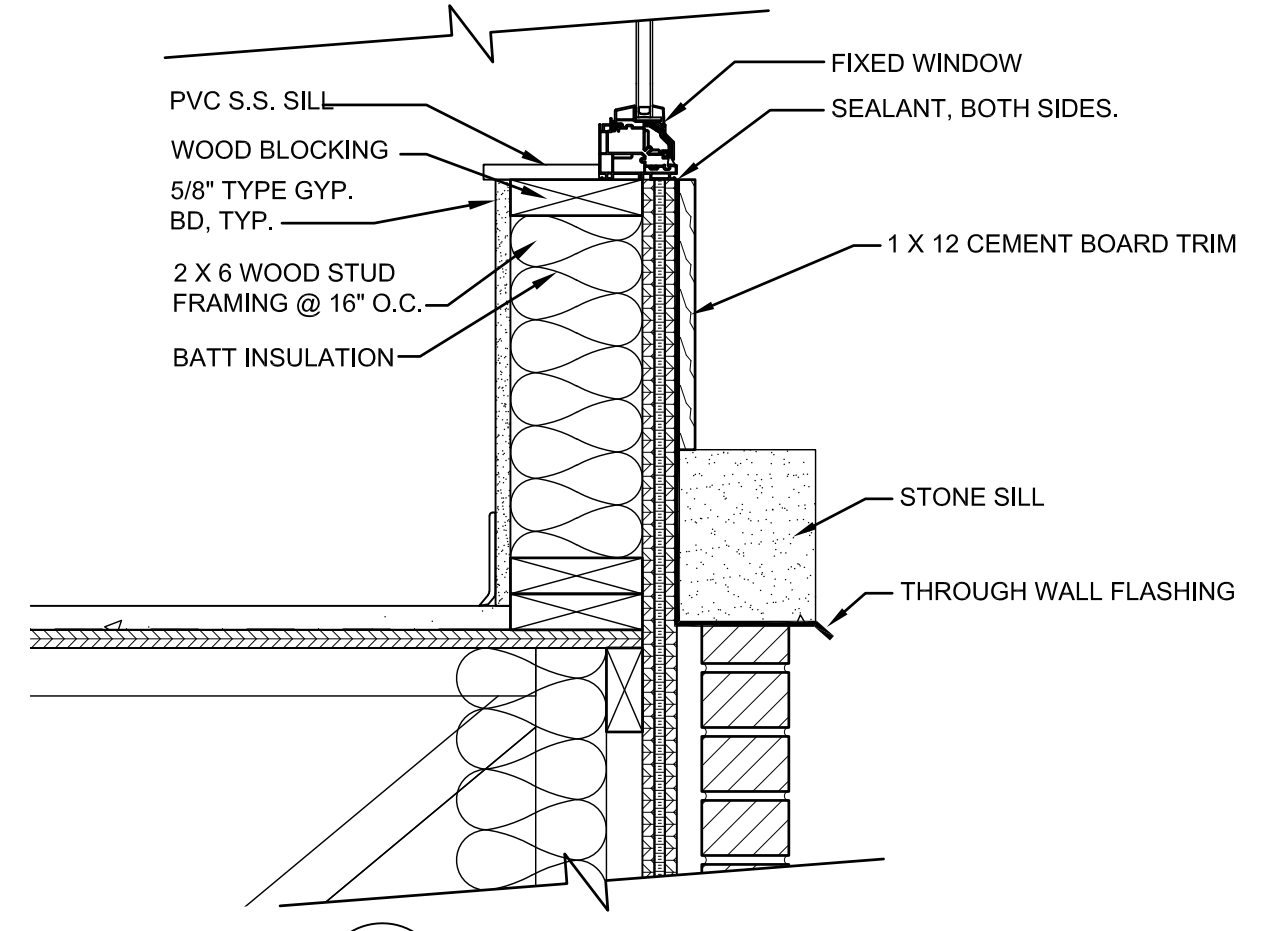
8 SILL DETAIL
A603 SCALE: 1 1/2" = 1'-0"



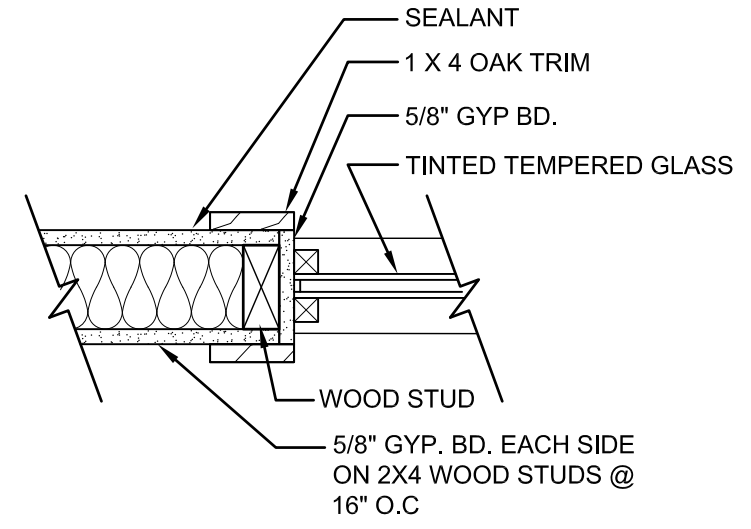
5 JAMB DETAIL
A603 SCALE: 1 1/2" = 1'-0"



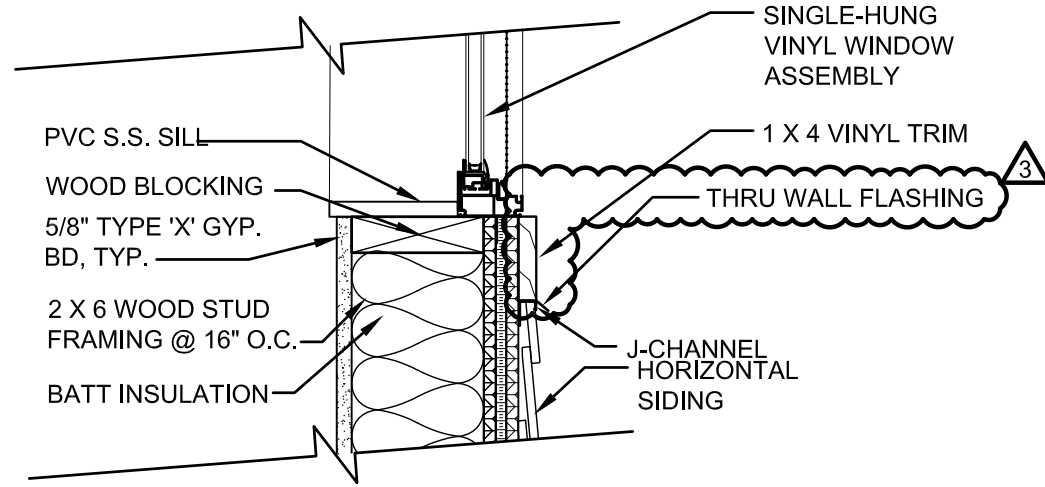
2 JAMB DETAIL
A603 SCALE: 1 1/2" = 1'-0"



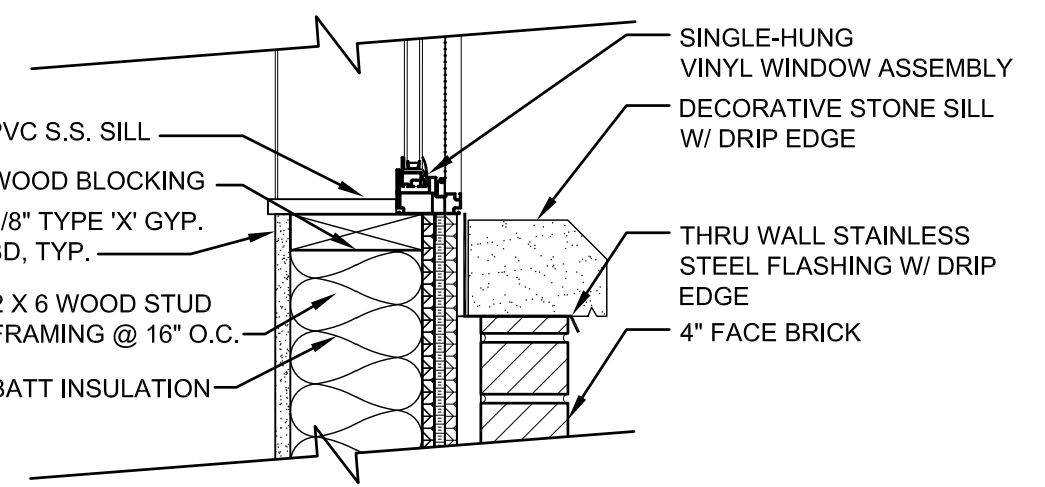
11 SILL DETAIL
A603 SCALE: 1 1/2" = 1'-0"



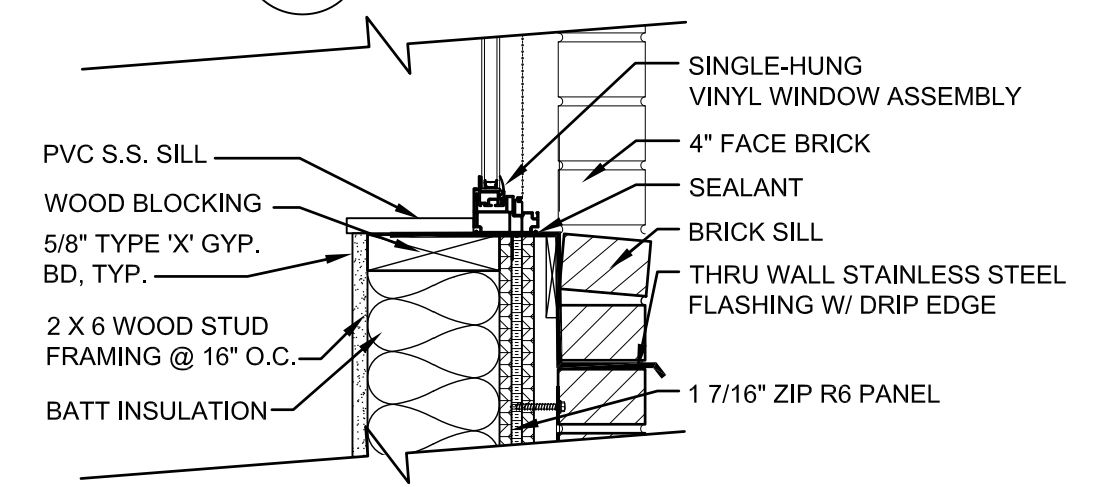
9 JAMB DETAIL
A603 SCALE: 1 1/2" = 1'-0"



7 SILL DETAIL
A603 SCALE: 1 1/2" = 1'-0"



4 SILL DETAIL
A603 SCALE: 1 1/2" = 1'-0"



1 SILL DETAIL
A603 SCALE: 1 1/2" = 1'-0"

W:\GDP\Germantown Crossing-82A21\05Dwg\3CD\A602_A603.dwg Oct 16, 2023 - 1:10pm

FINISH SCHEDULE - UNITS

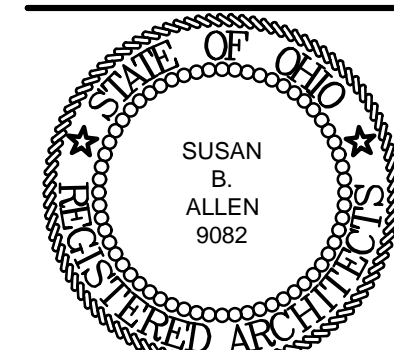
ROOM NO.	ROOM NAME	FLOORING	BASE	WALL FINISHES				CEILING	COUNTERTOP	REMARKS:
				NORTH	EAST	SOUTH	WEST			
1 BEDROOM - STANDARD UNIT										
A01	ENTRY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
A02	KITCHEN	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	SS-1	--
A03	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
A04	LIVING	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
A05	UTILITY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
A06	BEDROOM	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
A07	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
A08	BATHROOM	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
1 BEDROOM - MOBILITY UNIT										
B01	ENTRY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
B03	KITCHEN	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	SS-1	--
B04	LIVING	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
B05	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
B06	BATHROOM	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
B07	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
B08	BEDROOM	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
B09	UTILITY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
2 BEDROOM - STANDARD UNIT / SENSORY UNIT										
C01	ENTRY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C02	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C03	PANTRY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C04	BATHROOM	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
C04A	LINEN	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	--	--
C05	BEDROOM #1	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C06	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C07	BEDROOM #2	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C08	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C09	HALLWAY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C10	UTILITY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C11	LIVING	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C12	KITCHEN	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	SS-1	--
2 BEDROOM - MOBILITY UNIT										
D01	ENTRY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D02	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D03	PANTRY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D04	BATHROOM	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
D04A	LINEN	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	--	--
D05	BEDROOM #1	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D06	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D07	BEDROOM #2	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D08	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D09	HALLWAY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D10	UTILITY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D11	LIVING	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D12	KITCHEN	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	SS-1	--
3 BEDROOM - STANDARD UNIT										
F01	ENTRY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F02	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F03	LINEN	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F04	BATHROOM	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
F05	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F06	BEDROOM #3	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F07	LIVING	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F08	UTILITY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F09	HALLWAY A	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F10	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F11	BEDROOM #1	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F12	KITCHEN	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	SS-1	--
F13	HALLWAY B	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F14	BATHROOM	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
F15	LINEN	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	--	--
F16	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F17	BEDROOM #2	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
3 BEDROOM - MOBILITY UNIT										
G01	ENTRY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G02	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G03	PANTRY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G04	BATHROOM	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
G04A	LINEN	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	--	--
G05	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G06	BEDROOM #3	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G07	LIVING	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G08	UTILITY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G09	HALLWAY A	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G10	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--

FINISH SCHEDULE - UNITS

ROOM NO.	ROOM NAME	FLOORING	BASE	WALL FINISHES				CEILING	COUNTERTOP	REMARKS:
				NORTH	EAST	SOUTH	WEST			
3 BEDROOM - MOBILITY UNIT										
G11	BEDROOM #1	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G12	KITCHEN	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	SS-1	--
G13	HALLWAY B	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G14	BATHROOM	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
G16	LINEN	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	--	--
G17	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G18	BEDROOM #2	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--

FINISH SCHEDULE - COMMON AREAS

ROOM NO.	ROOM NAME	FLOORING	BASE	WALL FINISHES				CEILING	COUNTERTOP	REMARKS:
				NORTH	EAST	SOUTH	WEST			
FIRST FLOOR COMMON AREAS										
C101	TRASH	LVP-2	RB-2	P-4	P-4	P-4 / WP-1	P-4 / WP-1	GYP BD.	--	--
C102	TRASH COMPACTOR	SC-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C103	CORRIDOR	LVP-2	RB-2	P-4	P-4	P-4	P-4	ACT-1 / GYP BD.	--	SEE FINISH PLANS FOR ACCENT PAINT
C103A	CORRIDOR	CT-2 / WOC-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C103B	VESTIBULE	WOC-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C104	MAIL	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	SS-3	--
C105	STORAGE	SC-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C106	DATA	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C107	TOILET	CT-2	CB-1	P-7 / WT-1 & 2	P-7 / WT-1 & 2	P-7 / WT-1 & 2	P-7 / WT-1 & 2	GYP BD.	CM-1	--
C108	TOILET	CT-2	CB-1	P-7 / WT-1 & 2	P-7 / WT-1 & 2	P-7 / WT-1 & 2	P-7 / WT-1 & 2	GYP BD.	CM-1	--
C109	COMMUNITY ROOM	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C110	STORAGE	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C111	KITCHEN	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	SS-3	--
C111A	PANTRY	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C112	STORAGE	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C113	OFFICE	LVP-3	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C114	LOBBY	WOC-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C115	OFFICE	LVP-3	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C116	OFFICE	LVP-3	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C117	STORAGE	LVP-3	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C118	CONFERENCE	LVP-3	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C119	STORAGE	LVP-3	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C120	VESTIBULE	WOC-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C121	WAITING	CT-3	CB-1	P-4	P-4	P-5	P-4	GYP BD.	--	SEE FINISH PLANS FOR ACCENT PAINT
C122	CORRIDOR	LVP-2	RB-2	P-4	P-4	P-4	P-4	ACT-1 / GYP BD.	--	SEE FINISH PLANS FOR ACCENT PAINT
C123	TRASH	LVP-2	RB-2	P-4 / WP-1	P-4 / WP-1	P-4	P-4	GYP BD.	--	--
C124	MECH / MAINTANCE	SC-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C125	MECH	SC-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
SECOND FLOOR COMMON AREAS										
C201	TRASH	LVP-2	RB-2	P-4	P-4 / WP-1	P-4 / WP-1	P-4	GYP BD.	--	--
C202	STORAGE	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C203	CORRIDOR	LVP-2	RB-2	P-4	P-4	P-4	P-4	ACT-1 / GYP BD.	--	SEE FINISH PLANS FOR ACCENT PAINT
C204	LAUNDRY	CT-2	CB-1	P-4	P-4	P-4	P-4	GYP BD.	SS-2	--
C205	DATA	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C206	STORAGE	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C207	COMPUTERS	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	SS-3	--
C208	CORRIDOR	LVP-2	RB-2	P-4	P-4	P-4	P-4	ACT-1 / GYP BD.	--	SEE FINISH PLANS FOR ACCENT PAINT
C209	TRASH	LVP-2	RB-2	P-4 / WP-1	P-4 / WP-1	P-4	P-4	GYP BD.	--	--
THIRD FLOOR COMMON AREAS										
C301	TRASH	LVP-2	RB-2	P-4	P-4 / WP-1	P-4 / WP-1	P-4	GYP BD.	--	--
C302	STORAGE	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C303	CORRIDOR	LVP-2	RB-2	P-4	P-4	P-4	P-4	ACT-1 / GYP BD.	--	SEE FINISH PLANS FOR ACCENT PAINT
C304	FITNESS	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C305	DATA	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C306	STORAGE	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C307	CORRIDOR	LVP-2	RB-2	P-4	P-4	P-4	P-4	ACT-1 / GYP BD.	--	SEE FINISH PLANS FOR ACCENT PAINT
C308	TRASH	LVP-2	RB-2	P-4 / WP-1	P-4 / WP-1	P-4	P-4	GYP BD.	--	--
STAIRS / ELEVATORS										
E-1	ELEVATOR	LVP-2	RB-2	P-4	P-4	P-4	P-4	--	--	--
STA	STAIR A	RBST-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
STB	STAIR B	RBST-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--



SUSAN B. ALLEN
License #9082
Expiration Date 12/31/2023

REVISIONS
 BULLETIN 01 07/17/2023
 BULLETIN 03 10/16/2023

FINISH SCHEDULES
 GERMANTOWN CROSSING
 DAYTON OHIO



430 GRANT STREET
AKRON, OH 44311
PHONE: (330) 867-1093
www.tcarchitects.com

TURNING VISIONS
INTO REALITY

03/31/2023

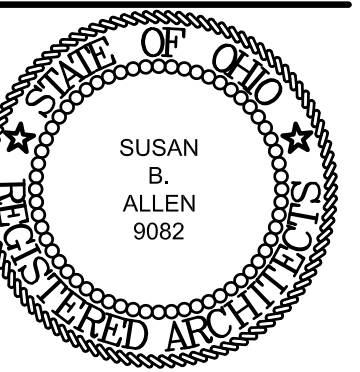
DATE

82A21

PROJECT NUMBER

A701

DRAWING NUMBER



SUSAN B. ALLEN
License #9082
Expiration Date 12/31/2023

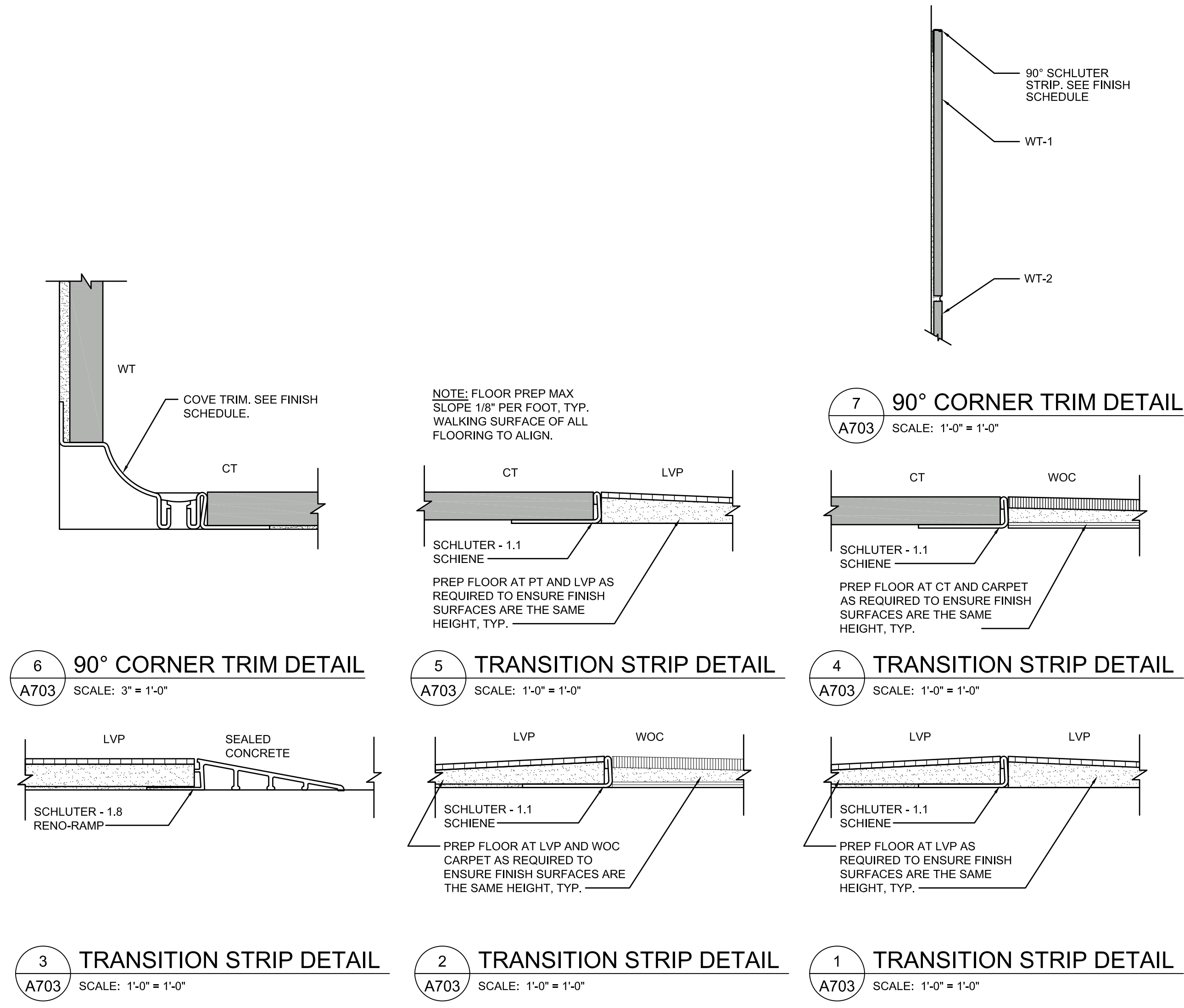
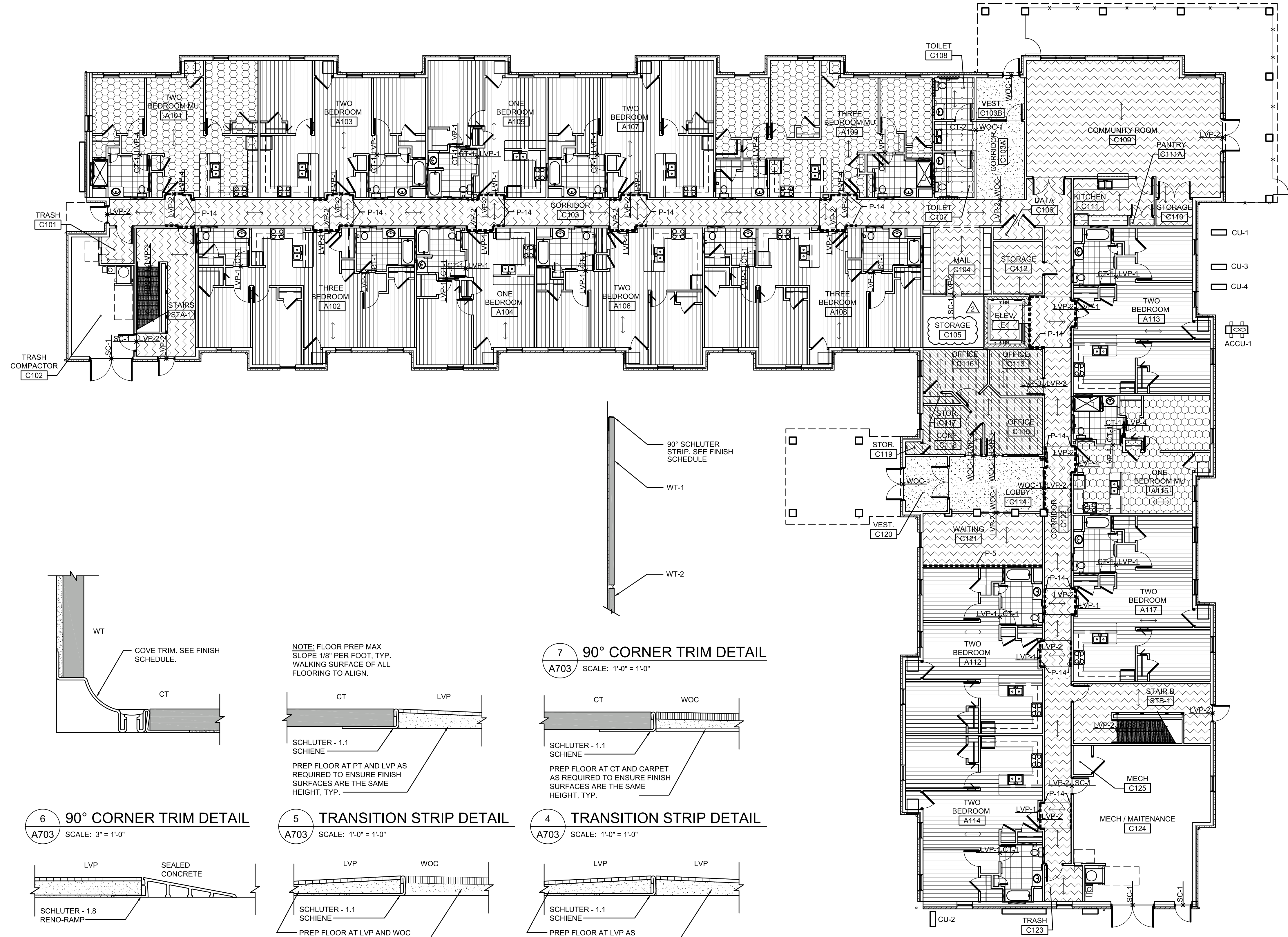
REVISIONS

- ▲ BULLETIN 01 07/17/2023
- ▲ BULLETIN 03 10/16/2023

LEGEND

- LUXURY VINYL PLANK - 1 (LVP-1)
- LUXURY VINYL PLANK - 2 (LVP-2)
- LUXURY VINYL PLANK - 3 (LVP-3)
- LUXURY VINYL PLANK - 4 (LVP-4)
- WALK-OFF CARPET (WOC-1)
- CERAMIC TILE - 1 (CT-1)
- CERAMIC TILE - 2 (CT-2)
- SEALED CONCRETE (SC-1)
- RUBBER STAIR TREAD (RBST-1)
- ACCU-1
- P-14 ACCENT PAINT

NOTE: SEE A701 FOR FINISH SCHEDULE



1 FIRST FLOOR FINISH PLAN
A703 SCALE: 3/32" = 1'-0" 18,287 SF

PLAN NORTH ACTUAL

FIRST FLOOR FINISH PLAN
GERMANTOWN CROSSING
DAYTON OHIO



430 GRANT STREET
AKRON, OH 44311
PHONE: (330) 867-1093
www.tcarchitects.com

TURNING VISIONS
INTO REALITY

03/31/2023
DATE
82A21
PROJECT NUMBER

A703
DRAWING NUMBER

CITY OF DAYTON, OHIO
 Carnell and Idding's Plat
 PB D PG 11
 Lot 20882, 20883, 20894, Part of 20893 and the "School Lot"
 Deed Book 2472 Page 554

GERMANTOWN STREET (60' R/W)

UNNAMED ALLEY (16' R/W)

WILLARD STREET (50' R/W)

GERMANTOWN STREET PROPERTY
 1.8376 Ac.

RUSH STREET

S PAUL LAURENCE DUNBAR STREET (50' R/W)
 (FKA SUMMITT STREET)

Updated Topography in Building Demolition Area 8-30-23

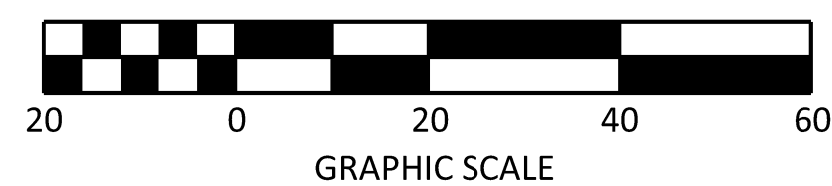
EXISTING SITE CONDITIONS PLAN
 for
GERMANTOWN STREET

City of Dayton
 Montgomery County, Ohio

modelgroup

genesis design llc
 Civil Engineering
 Cincinnati, Ohio - (513) 636-9694 - email: genesisdesignllc@gmail.com

SHEET TITLE		JOB NO.	
EXISTING SITE CONDITIONS PLAN			
DESIGNED	S.C.S.	DRAWN	F.O.S.
CHECKED	S.C.S.	SHEET NO.	
DATE	August 2023	C-01	



REVISIONS	
NO.	DATE
1	08-30-23
UPDATED TOPOGRAPHY IN BUILDING DEMO AREA	
BY	

CONSTRUCTION NOTES

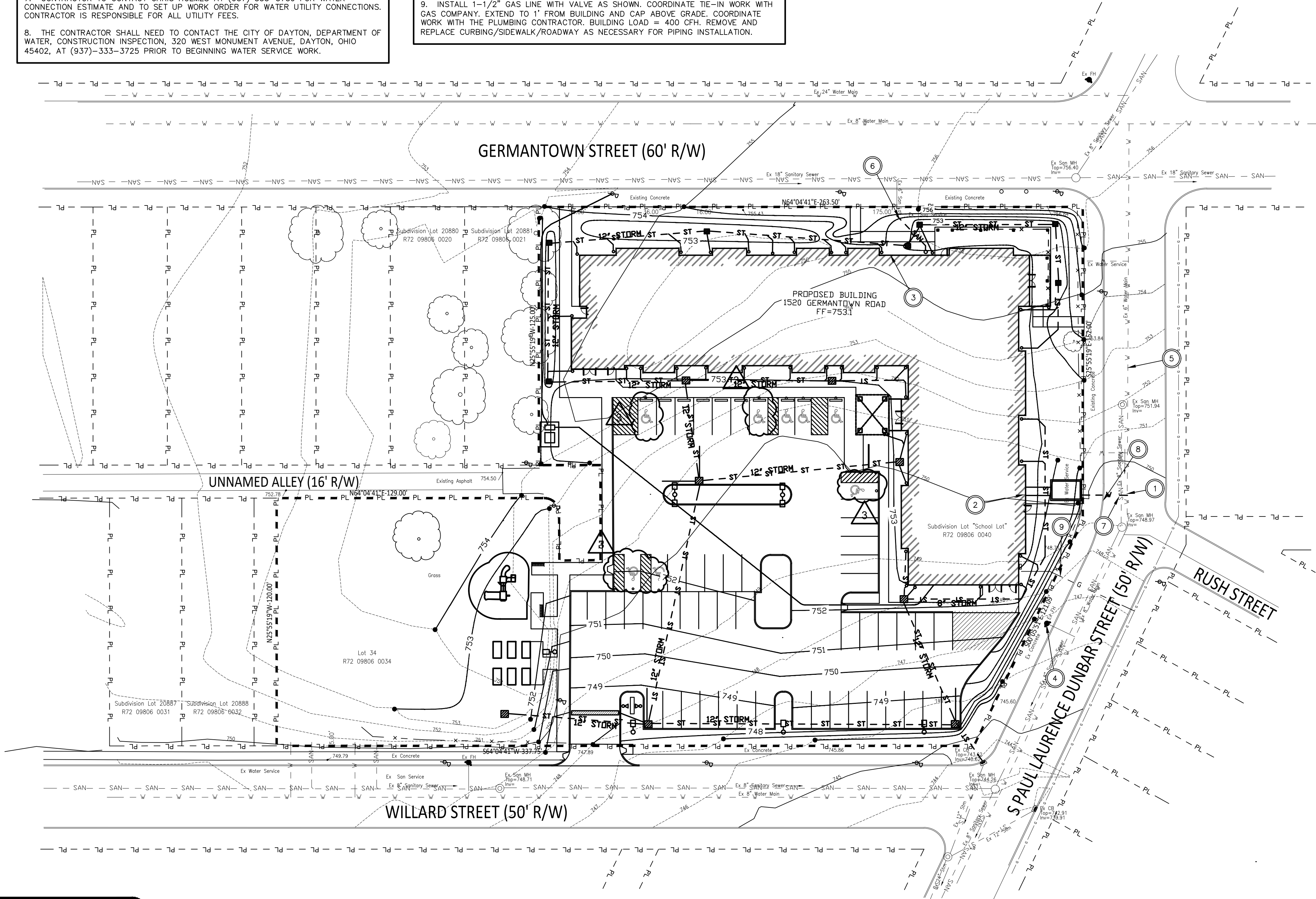
1. THE EXISTING UNDERGROUND INFORMATION AND TOPOGRAPHIC INFORMATION IS BASED ON THE PROJECT SURVEY AND AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UTILITIES. IF DURING CONSTRUCTION OPERATIONS, A CONTRACTOR ENCOUNTERS UTILITIES IN LOCATION OTHER THAN THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE OWNER AND TAKE THE NECESSARY STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE LAYOUT OF THE PROJECT.
3. ALL CONTRACTORS SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL BACKFILL AND GRADE EXCAVATED AREAS SO AS TO ELIMINATE PONDING ON THE SITE, OR ADJACENT PROPERTY.
4. EACH CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF EXISTING ELEVATIONS AT CRITICAL POINTS SUCH AS APPROACHES OF DRAINAGE STRUCTURES, CURBING, ETC. VERIFICATION SHALL BE PERFORMED DURING LAYOUT STAGES AND SIGNIFICANT DISCREPANCIES REPORTED TO THE ENGINEER IMMEDIATELY.
5. ALL CONSTRUCTION SHALL CONFORM TO THE DEPT. OF LABOR, BUREAU OF LABOR STANDARDS SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION AND THE CONTRACT WORK HOURS AND SAFETY ACT. (CHAPTER XVII TITLE C&R, PART 1926 AND ALL ADDITIONS AND REVISIONS).
6. CONTRACTOR TO OBTAIN PROPER PERMITS FROM THE CITY OF DAYTON.
7. CONTRACTOR TO CONTACT CHRIS HOLMES AT (937) 333-3739 FOR WATER CONNECTION ESTIMATE AND TO SET UP WORK ORDER FOR WATER UTILITY CONNECTIONS. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY FEES.
8. THE CONTRACTOR SHALL NEED TO CONTACT THE CITY OF DAYTON, DEPARTMENT OF WATER, CONSTRUCTION INSPECTION, 320 WEST MONUMENT AVENUE, DAYTON, OHIO 45402, AT (937)-333-3725 PRIOR TO BEGINNING WATER SERVICE WORK.

CODED NOTES

1. INSTALL 4" TAPPING SLEEVE AND VALVE AND EXTEND COMBINATION 4" FIRE/WATER LINE TO PROPOSED WATER VAULT. INSTALL 10' X 15' CONCRETE VAULT AT 1' OFFSET FROM PROPERTY LINE. SEE DETAILS ON SHEET C600. SAW CUT ROAD TO FULL DEPTH PRIOR TO ITS REMOVAL AND REPLACE PER CITY OF DAYTON STANDARDS. EXTEND 4" STORM LINE AND TIE INTO STORM BASIN "0" AT INVERT = 746.5.
2. INSIDE VAULT, SPLIT 4" LINE INTO A 4" WATER LINE AND A 4" FIRE LINE AND EXTEND TO 5' FROM BUILDING. COORDINATE WORK WITH THE PLUMBING AND FIRE PROTECTION CONTRACTORS. INSTALL SYSTEM WITH ALL COMPONENTS NOTED IN THE DETAILS ON SHEET C600.
3. NEW BUILDING FOOTPRINT.
4. EXISTING FIRE HYDRANT. PROTECT DURING CONSTRUCTION
5. EXISTING PUBLIC WATER MAIN.
6. INSTALL 6" SANITARY LATERAL FROM EXISTING SANITARY STUB AS SHOWN AND END WITH A CLEANOUT AT INVERT = 749.1. COORDINATE WORK WITH PLUMBING CONTRACTOR. CONTRACTOR TO VERIFY EXISTING DEPTH AND LINE SIZE PRIOR TO THE START OF CONSTRUCTION AND IS TO NOTIFY ARCHITECTS IF EXISTING INVERT IS ABOVE 748.5.
7. CAUTION EXISTING UTILITY CROSSING.
8. REMOVE AND REPLACE PAVEMENT/SIDEWALK/CURBING AS NECESSARY FOR INSTALLATION OF NEW UTILITIES. WORK IS TO COMPLY WITH CITY OF DAYTON STANDARDS.
9. INSTALL 1-1/2" GAS LINE WITH VALVE AS SHOWN. COORDINATE TIE-IN WORK WITH GAS COMPANY. EXTEND TO 1' FROM BUILDING AND CAP ABOVE GRADE. COORDINATE WORK WITH THE PLUMBING CONTRACTOR. BUILDING LOAD = 400 CFH. REMOVE AND REPLACE CURBING/SIDEWALK/ROADWAY AS NECESSARY FOR PIPING INSTALLATION.

CITY CONSTRUCTION NOTES

1. ALL EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE REQUIRED TO FIELD LOCATE EXACT LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO SETTING GRADE AND ALIGNMENT. THE CITY OF DAYTON AND THE DEPARTMENT OF WATER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTH OR THE UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. ALL COST FOR LOCATING, REMOVING AND REPLACING OR CONSTRUCTION SHALL BE REPAIRED TO THE UTILITY OWNER'S SATISFACTION. THE EXACT LOCATION OF EXISTING UTILITIES SHALL BE DETERMINED BY HAND DIGGING.
2. LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE DEPARTMENT OF WATER.
4. ALL WORK SHALL CONFORM TO THE CITY OF DAYTON, CONSTRUCTION AND MATERIAL SPECIFICATIONS (LATEST EDITION).
5. NO CONSTRUCTION SHALL COMMENCE UNTIL CITY OF DAYTON PERMITS HAVE BEEN ISSUED AS REQUIRED.
6. ALL PROJECT ORDERS (FIELD OR OFFICE), REQUESTS, CHANGES, ADDITIONS OR DELETIONS PERTAINING TO PUBLIC WATER MAIN, STORM SEWER, AND SANITARY SEWER FACILITIES SHALL BE ONLY BY DIRECTION OR REQUEST OF THE DEPARTMENT OF WATER.
7. THE CONTRACTOR SHALL NOTIFY RESIDENTS AND BUSINESSES AFFECTED BY STREET CLOSURES A MINIMUM OF 48 HOURS IN ADVANCE OF THE ACTUAL STREET CLOSING.
8. ROADWAY RESTORATION WITHIN THE CITY OF DAYTON CORPORATION LIMITS SHALL BE DONE IN COMPLIANCE WITH THE DEPARTMENT OF PUBLIC WORKS "RULES AND REGULATIONS FOR MAKING OPENINGS IN A PUBLIC WAY" (LATEST EDITION).
9. FORTY-EIGHT HOURS PRIOR TO ANY CONSTRUCTION, EXCAVATION OR DIGGING, THE CONTRACTOR SHALL CALL AND NOTIFY THE OHIO UTILITIES PROTECTION SERVICES (OUPS) AT 1-800-362-2764. ALL OTHER AGENCIES, WHICH MIGHT HAVE UNDERGROUND UTILITIES IN THIS AREA AND ARE NOT MEMBERS OF OUPS, SHALL BE NOTIFIED DIRECTLY BY THE CONTRACTOR.
10. APPROVAL OF PLANS BY THE DEPARTMENT OF WATER DOES NOT RELIEVE THE DESIGNER, OWNER, OR PERSON IN CONTROL OF THE PROPERTY FROM LIABILITY FOR INJURY TO PERSONS OR PROPERTY.
11. APPROVAL OF THE PLANS SHALL BECOME VOID IF CONSTRUCTION HAS NOT COMMENCED WITHIN TWELVE (12) MONTHS FROM THE DATE APPROVED BY THE DEPARTMENT OF WATER. IN ADDITION, THE PLANS SHALL BECOME VOID IF CONSTRUCTION IS NOT COMPLETED WITHIN TWO (2) YEARS FROM THE DATE APPROVED BY THE DEPARTMENT OF WATER.
12. ALL FILLS (INCLUDING TRENCH BEDDING AND BACKFILL) INTENDED TO SUPPORT A WATER MAIN, SANITARY SEWER, STORM SEWER OR DRAINAGE CHANNEL SHALL BE COMPACTED TO NOT LESS THAN 90% MAXIMUM DENSITY (MODIFIED PROCTOR TEST ASTM D1557), UNLESS OTHERWISE NOTED. FIELD VERIFICATION AND FORMAL RESULT SUBMITTALS MAY BE REQUESTED (AS NECESSARY) BY THE DEPARTMENT OF WATER.
13. IN ADDITION TO THE NOTES ON THIS SHEET, CONTRACTOR'S ATTENTION SHALL BE DIRECTED TO THE NOTES ON THE ATTACHED SHEETS AS WELL.
14. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED WATER LINE, SANITARY OR STORM SEWER LINES PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID LINES. ALL FILLS SHALL BE CONTROLLED, COMPACTED AND INSPECTED.
15. FORTY-EIGHT HOURS PRIOR TO ANY EARTH DISTURBING WORK, THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF WATER AT (937) 333-3739 (FIELD BUREAU).
16. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN, CONSTRUCTION. SEDIMENT CONTROL PRACTICES SHALL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF SILT OFF THE SITE. ALL RUNOFF RESULTING FROM CONSTRUCTION OPERATIONS MUST BE FILTERED BY APPROVED METHODS PRIOR TO DISCHARGING TO THE STORM SEWER SYSTEM.
17. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AND REPAIRED ONCE A WEEK AND AFTER EVERY 1/2" OF RAIN. RECORDS OF SUCH INSPECTION SHALL BE KEPT AT THE JOB SITE AND BE AVAILABLE FOR IMMEDIATE REVIEW UPON REQUEST.
18. IN ADDITION TO ANY TEMPORARY EROSION, SEDIMENT, AND DEBRIS CONTROL DETAILS AND NOTES SHOWN ON THE PLANS, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASINS, EARTH DIKES, TEMPORARY OR PERMANENT SEEDING, MULCHING AND/OR MULCH NETTING OR ANY OTHER GENERALLY ACCEPTED METHODS TO PREVENT EROSION, MUD AND DEBRIS FROM BEING DEPOSITED ON OTHER PROPERTY, ON NEWLY CONSTRUCTED OR EXISTING ROADS, OR INTO EXISTING SEWERS OR NEW SEWERS WITHIN THE DEVELOPMENT.
19. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL. DISTURBED AREAS THAT LIE DORMANT FOR 21 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN 7 CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.
20. UNTIL IMPROVEMENTS IN THE DEVELOPMENT HAVE BEEN COMPLETED, THE CONTRACTOR SHALL TAKE SUCH MEASURES AS ARE NECESSARY TO PREVENT EROSION OF GRADED SURFACES ONTO ROADWAYS, INTO DRAINAGE COURSES, STORM SEWERS, OR ONTO ADJOINING LAND. FOR ANY EARTH DISTURBANCE OR ANY DEVELOPMENT APPROVED BY THE DEPARTMENT OF WATER, THE CONTRACTOR SHALL CLEAN ANY MUD OR DEBRIS DEPOSITED ON ROADWAYS, DRAINAGE COURSES, OR ADJOINING PROPERTY WHEN THE MUD AND DEBRIS ORIGINATES FROM THE EARTH MOVING OPERATIONS.
21. ALL MUD/DIRT TRACKED ONTO ROADS FROM THE SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY (WITHIN 24 HOURS) REMOVED.
22. FOR DEVELOPMENT SITES, EROSION CONTROL MEASURES SHALL BE ENFORCED ON INDIVIDUAL OR RESIDENTIAL LOTS. THIS SHALL INCLUDE A CONSTRUCTION ENTRANCE (REFER TO DETAIL - ER-B) AND SILT FENCE ACROSS THE FRONTAGE OF EACH PROPERTY AND A TEMPORARY DIVERSION DITCH ON EACH LOT.
23. THIS PROJECT IS SUBJECT TO INSPECTION BY THE DEPARTMENT OF WATER PERSONNEL FOR COMPLIANCE WITH THE CITY'S STORM WATER ORDINANCE DURING AND AFTER CONSTRUCTION. BUT IS NOT LIMITED TO INSPECTION OF EROSION CONTROL FACILITIES, SURFACE DRAINAGE, AND DETENTION/RETENTION FACILITIES. ADDITIONAL MEASURES MAY BE REQUIRED IF VIOLATIONS OF THE ORDINANCE OCCUR AND WATER DEPARTMENT PERSONNEL DEEM IT NECESSARY. ALL MEASURES SHALL COMPLY WITH CITY OF DAYTON STANDARDS AND "RAINWATER MID LAND DEVELOPMENT, OHIO'S STANDARD FOR STORM WATER MANAGEMENT, LAND DEVELOPMENT, AND URBAN STREAM PROTECTION", (LATEST EDITION).



SITE UTILITY PLAN



REVISIONS

▲	BULLETIN 01	07/17/2023
▲	BULLETIN 02	09/19/2023
▲	BULLETIN 03	10/16/2023

3/31/23
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SITE UTILITY PLAN

GERMANTOWN CROSSING

DAYTON OHIO



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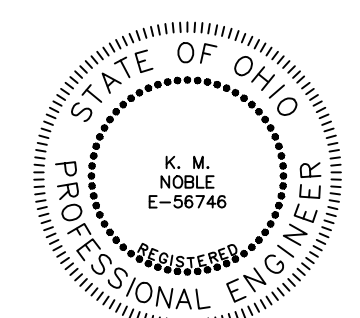
03/31/2023
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82A21
PROJECT NUMBER

C200
DRAWING NUMBER

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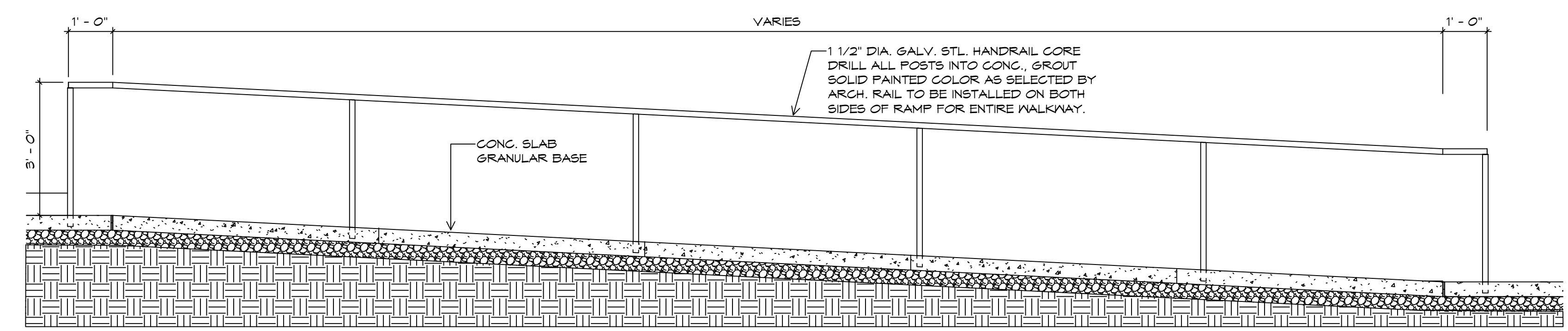
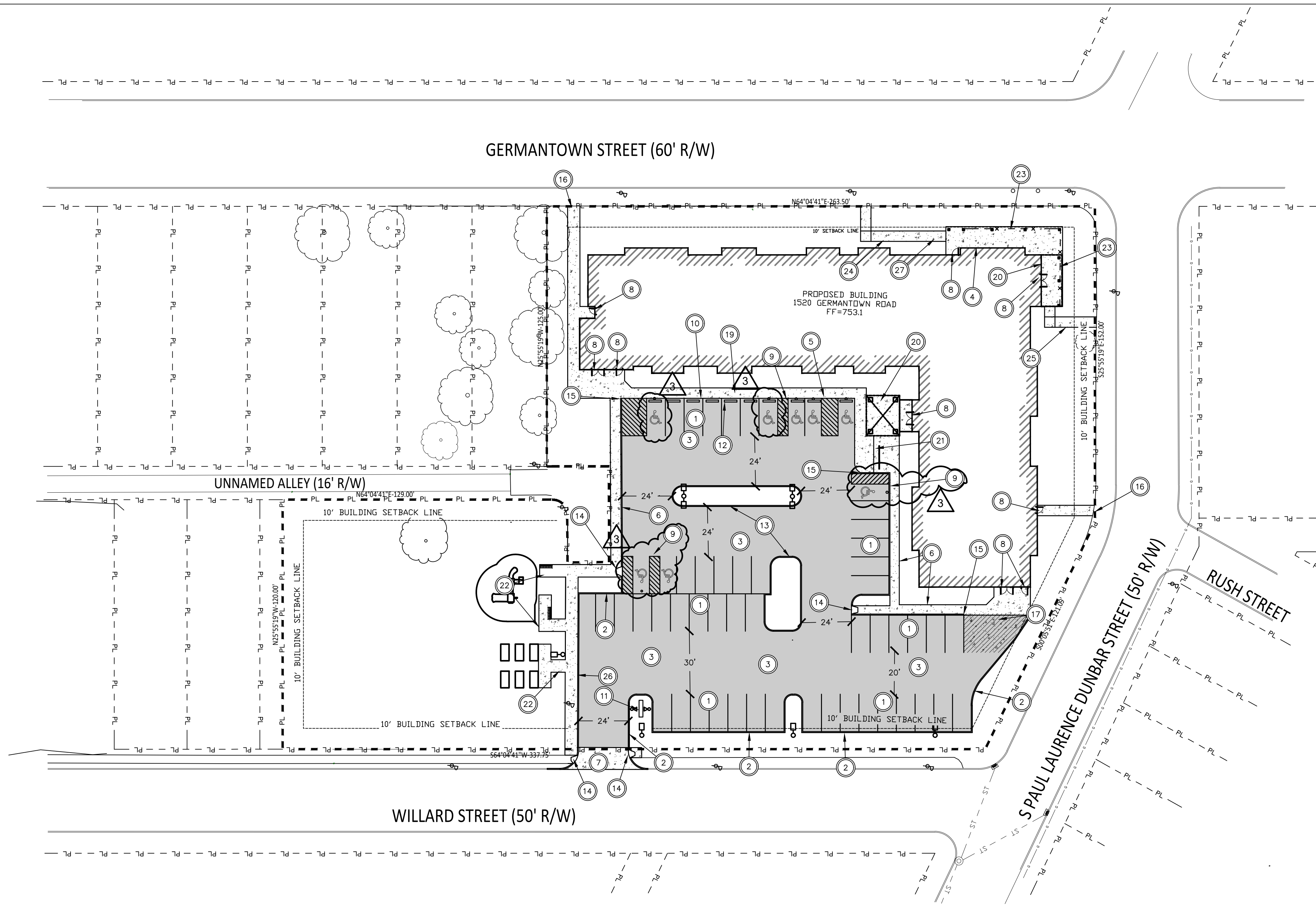


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- ### CONSTRUCTION NOTES
- CONTRACTORS SHALL SCHEDULE THEIR OPERATIONS AND CARRY OUT THE WORK IN A MANNER TO CAUSE THE LEAST DISTURBANCE AND/OR INTERFERENCE WITH NORMAL FLOW OF THE TRAFFIC.
 - ALL PAVEMENT SHALL BE GOVERNED BY THE LATEST EDITION OF ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS.
 - ALL POINTS OF CONNECTION OF PROPOSED IMPROVEMENTS TO EXISTING CONDITIONS SHALL BE UNCOVERED AND ELEVATIONS VERIFIED BY FIELD CHECK BEFORE ANY CONSTRUCTION BEGINS.
 - CONTRACTOR IS TO REGRADE TO MATCH EXISTING ELEVATIONS. RESEED AND MULCH IN ALL DISTURBED AREAS.
 - CAD FILES OF THE LAYOUT WILL BE PROVIDED BY THE ENGINEER TO THE CONTRACTOR FOR HIS USE IN LAYING OUT THE SITE.

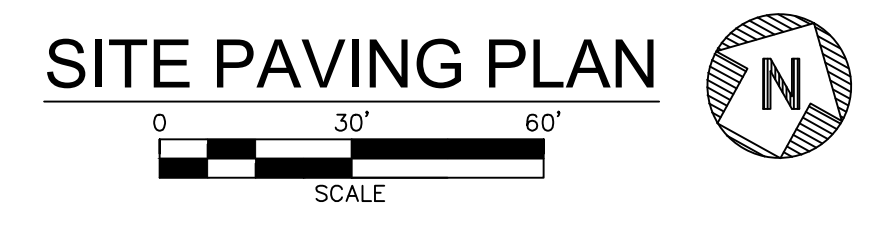
- ### CODED NOTES
- STRIPES 9'X18' PARKING SPACES AS SHOWN.
 - INSTALL 6" VERTICAL CURBING.
 - INSTALL ASPHALT PAVING IN SHADED AREA PER DETAIL SHEET C601.
 - INSTALL BUILDING PARALLEL TO THE NORTH PROPERTY LINE (RIGHT-OF-WAY) AND OFFSET 20'-0" TO THAT LINE.
 - INSTALL 8' WIDE HANDICAP SPACE WITH 8' UNLOADING SPACE. PAINT HANDICAP SYMBOL AND STRIPING AS SHOWN. PROVIDE WITH HANDICAP SIGNAGE FOR EACH SPACE.
 - INSTALL 5' WIDE INTEGRAL CONCRETE CURBING/SIDEWALK PER DETAIL ON SHEET C601.
 - INSTALL CONCRETE APRON WITHIN RIGHT-OF-WAY PER CITY OF DAYTON STANDARDS.
 - INSTALL FROST PROOF SLABS AT DOOR PER DETAILS ON THE ARCHITECTURAL PLANS.
 - INSTALL 8' WIDE HANDICAP SPACES AND 5' WIDE UNLOADING SPACE. PAINT HANDICAP SYMBOL AND INSTALL HANDICAP SIGNAGE FOR EACH SPACE.
 - TOP OF ASPHALT TO MEET TOP OF SIDEWALK.
 - PROPOSED SIGN.
 - INSTALL CONCRETE WHEEL STOP PER DETAIL ON SHEET C600. (TYPICAL).
 - LANDSCAPE ISLAND.
 - INSTALL HANDICAP RAMP PER DETAIL ON SHEET C601.
 - INSTALL 5' CURB TAPER.
 - INSTALL 5' CONCRETE SIDEWALK AND MATCH TOP OF EXISTING SIDEWALK.
 - INSTALL CONCRETE PAVEMENT IN HATCHED AREA PER CONCRETE PAD/APRON DETAIL ON SHEET C601.
 - NOT USED.
 - PROPOSED 5' WIDE CONCRETE SIDEWALK.
 - INSTALL CONCRETE SIDEWALK UNDER CANOPY AREA. TOP OF CONCRETE = 753.1 AT DOORS. SLOPE AWAY AT 1/4" PER FOOT.
 - PROPOSED BICYCLE RACK. SEE DETAIL ON SHEET C602.
 - PROPOSED 6' WIDE CONCRETE SIDEWALK.
 - FENCING AROUND PORCH. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
 - INSTALL 48' LONG (12' TO NORTH AND 36' TO EAST) X 5' WIDE CONCRETE RAMP WITH 5' X 5' LANDING AREA. PROVIDE WITH RAILING ON EACH SIDE. MATCH TOP OF CONCRETE SIDEWALK = 756.0 AND TOP OF PROPOSED CONCRETE PORCH = 752.9. LANDING AREA = 755.0.
 - INSTALL 24' LONG (20' TO THE EAST AND 4' TO THE SOUTH) X 5' WIDE CONCRETE RAMP WITH 5' X 5' LANDING AREA. PROVIDE WITH RAILING ON EACH SIDE. MATCH TOP OF CONCRETE SIDEWALK = 754.4 AND TOP OF PROPOSED CONCRETE PORCH = 752.9. LANDING AREA = 752.7 (LOW POINT).
 - PROPOSED 6' WIDE INTEGRATED CURB AND SIDEWALK.
 - LOW POINT IN SIDEWALK IS 4' FROM EDGE OF PORCH AT 752.7.



SITE RAMP SECTION
N.T.S.

LEGEND

	PROPOSED ASPHALT
	PROPOSED CONCRETE PAVEMENT



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SITE PAVING PLAN

GERMANTOWN CROSSING
DAYTON OHIO



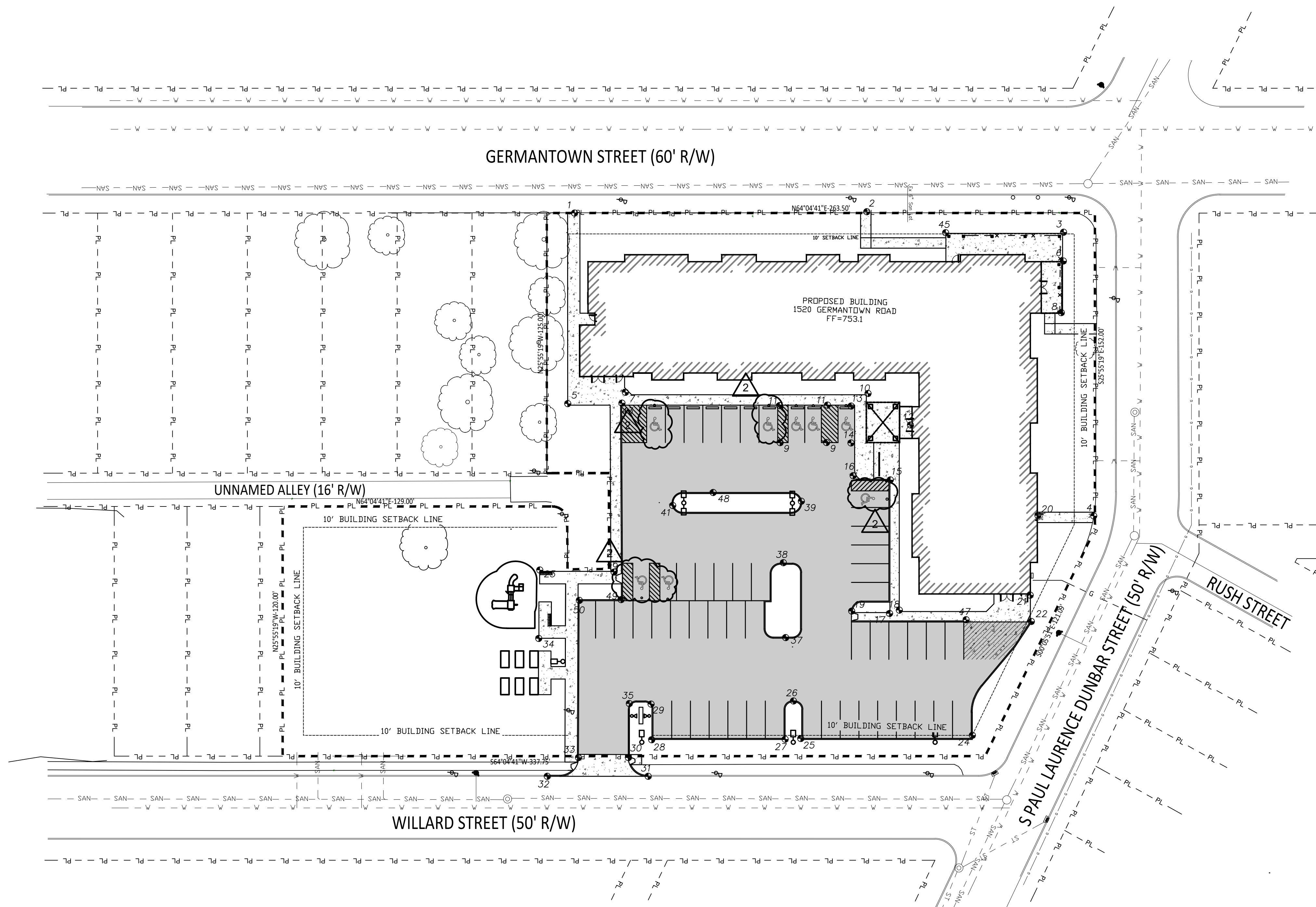
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C300
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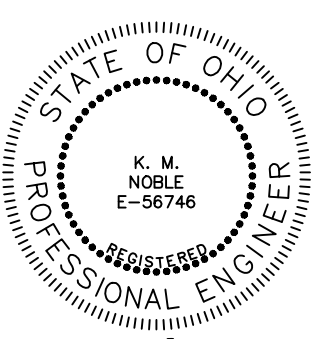
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SITE LAYOUT STATIONING

POINT #	DESCRIPTION	ELEVATION
1	END OF SIDEWALK	MATCH EXISTING
2	END OF SIDEWALK	MATCH EXISTING
3	CORNER OF SIDEWALK	752.9
4	END OF SIDEWALK	MATCH EX.
5	CORNER OF SIDEWALK	752.8
6	EDGE OF PAVEMENT	752.9
7	CORNER OF SIDEWALK	752.9
8	EDGE OF PAVEMENT	752.9
9	END OF UNLOADING ZONE	752.7
10	CORNER OF SIDEWALK	752.9
11	TOP OF UNLOADING ZONE	752.8
12	EDGE OF PAVEMENT	753.1
13	CORNER OF SIDEWALK	752.8
14	EDGE OF PAVEMENT	752.7
15	CORNER OF SIDEWALK	752.8
16	MIDPOINT OF 5' RADIUS	752.6
17	CORNER OF SIDEWALK	752.3
18	CORNER OF SIDEWALK	752.3
19	CORNER OF PAVEMENT	752.1
20	EDGE OF PAVEMENT	753.1
21	CORNER OF BUILDING	753.1
22	CORNER OF SIDEWALK	751.9
23	TOP OF SIDEWALK	752.7
24	CORNER OF PAVEMENT	748.1 (LP)
25	CORNER OF PAVEMENT	748.8
26	END OF 4.5' RADIUS	749.5
27	CORNER OF PAVEMENT	748.8
28	CORNER OF PAVEMENT	748.3 (LP)
29	MIDPOINT OF 5' RADIUS	748.9
30	END OF CONCRETE APRON	MATCH EXISTING
31	END OF 9' RADIUS	MATCH EXISTING
32	END OF 9' RADIUS	MATCH EXISTING
33	END OF CONCRETE APRON	MATCH EXISTING
34	END OF SIDEWALK	752.1
35	MIDPOINT OF 5' RADIUS	748.9
37	MID POINT OF ISLAND	751.6
38	MID POINT OF ISLAND	752.2
39	MID POINT OF ISLAND	752.5
41	MID POINT OF ISLAND	752.6
43	TOP OF SIDEWALK	752.8
45	CORNER OF SIDEWALK	752.9
46	END OF HC RAMP	752.5
47	EDGE OF PAVEMENT	751.9
48	LOW POINT	752.0 (LP)
49	CORNER OF PAVEMENT	751.8
50	CORNER OF PAVEMENT	751.7

*ELEVATIONS ARE TO TOP OF PAVEMENT WHERE APPLICABLE.
 *RADII LISTED ARE TO THE OUTSIDE CURB LINE
 (HP) = HIGH POINT
 (LP) = LOW POINT



Ken M. Noble 3/31/23
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SITE LAYOUT PLAN

GERMANTOWN CROSSING
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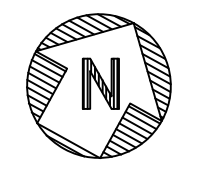
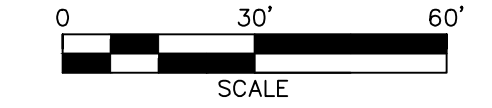
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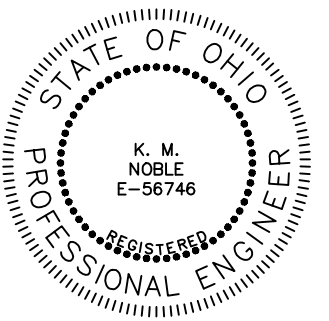
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SITE LAYOUT PLAN





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CONSTRUCTION NOTES

1. CONTRACTORS SHALL SCHEDULE THEIR OPERATIONS AND CARRY OUT THE WORK IN A MANNER TO CAUSE THE LEAST DISTURBANCE AND/OR INTERFERENCE WITH NORMAL TRAFFIC FLOW.
2. THE EXISTING UNDERGROUND INFORMATION AND TOPOGRAPHIC INFORMATION IS BASED ON THE PROJECT'S SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UTILITIES. IF DURING CONSTRUCTION OPERATIONS, A CONTRACTOR ENCOUNTERS UTILITIES IN LOCATION OTHER THAN THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE OWNER AND TAKE THE NECESSARY STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE.
3. ALL CONTRACTORS SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL BACKFILL AND GRADE EXCAVATED AREAS SO AS TO ELIMINATE PONDING ON THE SITE, OR ADJACENT PROPERTY.
4. CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF EXISTING ELEVATIONS AT CRITICAL POINTS SUCH AS APPROACHES OF DRAINAGE STRUCTURES, CURBING, ETC. VERIFICATION SHALL BE PERFORMED DURING LAYOUT STAGES AND SIGNIFICANT DISCREPANCIES REPORTED TO THE ENGINEER IMMEDIATELY.
5. CONTRACTOR SHALL CONDUCT HIS OPERATIONS SUCH THAT THE FLOW OF ALL EXISTING SEWERS AND LATERALS WILL BE MAINTAINED AT ALL TIMES.

CODED NOTES

1. INSTALL 6" RAIN LEADER AS SHOWN (TYPICAL). EXTEND UP TO 1' ABOVE GRADE AND END WITH BOOT THAT MATCHES DOWNSPOUT SIZE. INSTALL WITH INVERT @ DOWNSPOUT OF 18" BELOW GRADE FINISHED GRADE. COORDINATE EXACT LOCATIONS OF DOWNSPOUTS WITH ARCHITECTURAL PLANS. (TYPICAL).
2. INSTALL TRENCH DRAIN "A" PER DETAIL ON SHEET C601.
3. INSTALL 12" STORM SEWER.
4. INSTALL INLET BASIN. INSTALL INLET PROTECTION AROUND BASIN AND REMOVE AT THE END OF THE PROJECT.
5. MAKE WATERTIGHT CONNECTION INTO EXISTING BASIN AT INVERT = 740.62.
6. INSTALL 20' LONG BY 4" PERFORATED (NO FILTER SOCK) SUBSURFACE DRAINS WITHIN BASE COARSE. TYPICAL OF THREE AT EACH BASIN IN THE PARKING LOT.
7. EXTEND 4" DRAIN LINE AND TIE INTO THE BUILDING'S FOUNDATION DRAIN.

LEGEND

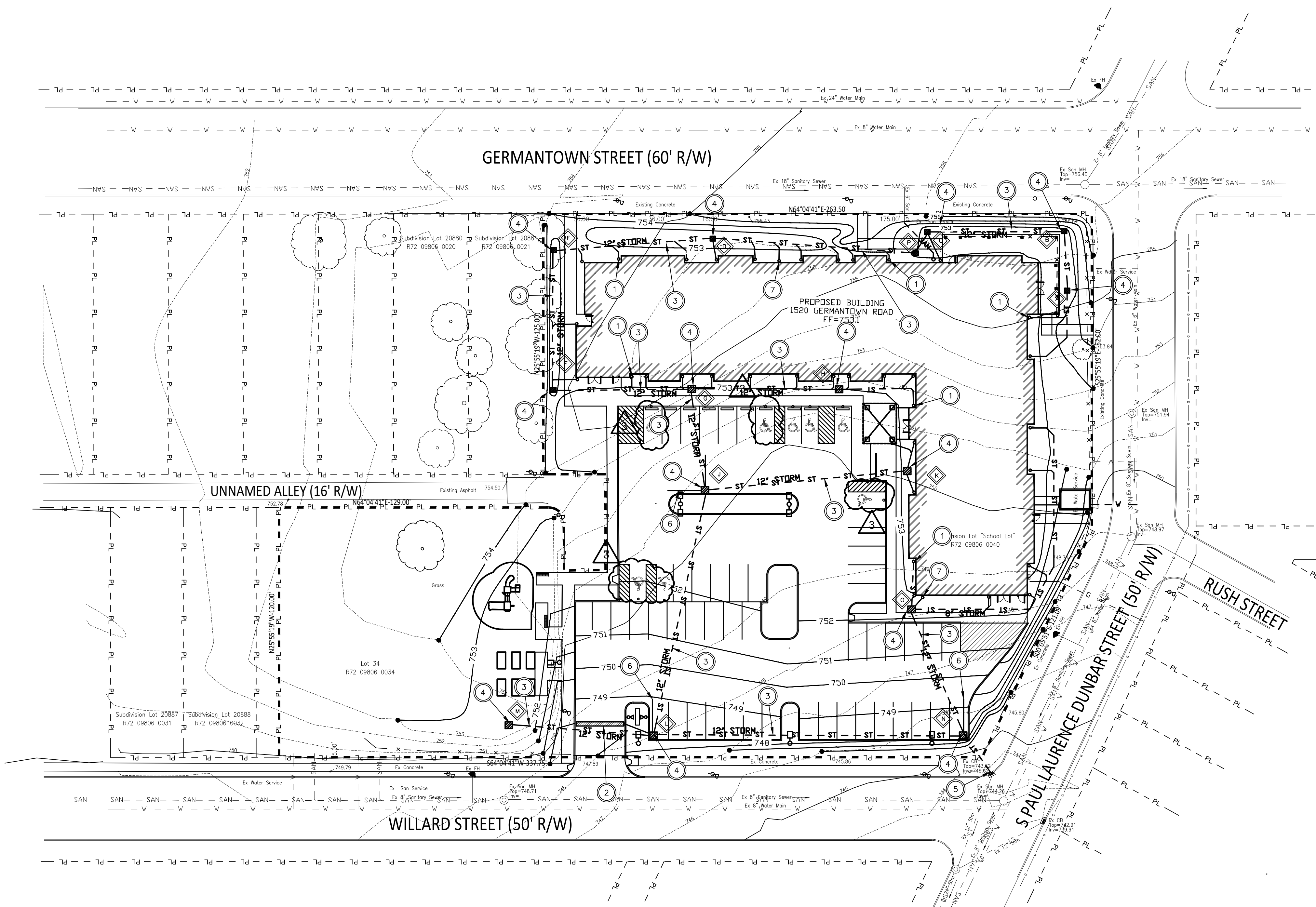


SEWER SUMMARY

<p>◆ PROP. INLET BASIN "A" PROP. CASTING = 752.6 PROP. 12" INV (N) = 748.8 PROP. 6" INV (S) = 650.8</p>	<p>◆ PROP. INLET BASIN "H" PROP. CASTING = 752.6 PROP. 12" INV (W) = 748.8 PROP. 6" INV (E) = 749.0</p>
<p>◆ PROP. INLET BASIN "B" PROP. CASTING = 752.6 PROP. 12" INV (W & S) = 748.6</p>	<p>◆ PROP. INLET BASIN "J" PROP. CASTING = 752.0 PROP. 12" INV (E, N & S) = 745.6</p>
<p>◆ PROP. INLET BASIN "C" PROP. CASTING = 752.4 PROP. 12" INV (SW & E) = 748.2 PROP. 6" INV (S) = 750.0</p>	<p>◆ PROP. INLET BASIN "K" PROP. CASTING = 752.6 PROP. 12" INV (E) = 748.8 PROP. 6" INV (N&S) = 750.8</p>
<p>◆ PROP. INLET BASIN "D" PROP. CASTING = 752.6 PROP. 12" INV (E & W) = 747.7 PROP. 4" INV (S) = 749.0</p>	<p>◆ PROP. INLET BASIN "L" PROP. CASTING = 748.3 PROP. 12" INV (E, W & N) = 744.3 PROP. 8" INV (W) = 746.5</p>
<p>◆ PROP. INLET BASIN "E" PROP. CASTING = 752.6 PROP. 12" INV (E & S) = 747.0</p>	<p>◆ PROP. YARD BASIN "M" PROP. CASTING = 752.1 PROP. 12" INV (E) = 748.1</p>
<p>◆ PROP. INLET BASIN "F" PROP. CASTING = 752.6 PROP. 12" INV (N & E) = 746.5</p>	<p>◆ PROP. INLET BASIN "N" PROP. CASTING = 748.1 PROP. 12" INV (W & N & SE) = 741.0</p>
<p>◆ PROP. INLET BASIN "G" PROP. CASTING = 752.6 PROP. 12" INV (E, S & W) = 746.0</p>	<p>◆ PROP. INLET BASIN "O" PROP. CASTING = 752.0 PROP. 12" INV (SE) = 746.0 PROP. 6" INV (N) = 750.8 PROP. 8" INV (E) = 750.0 PROP. 4" INV (NE) = 749.0</p>
	<p>◆ PROP. INLET BASIN "P" PROP. CASTING = 752.4 PROP. 12" INV (NE & W) = 748.0</p>

NOTE:
AN EXISTING BUILDING AND PAVED PARKING LOT LOCATED ON THE SAME PARCEL AS THE PROPOSED PARKING LOT HAVE BEEN REMOVED. SEE OUTLINE ON SHEET C2.0. THIS PROJECT WILL RESULT IN A REDUCTION IN SITE STORMWATER RUNOFF AS THE ONSITE IMPERVIOUS AREA WILL BE REDUCED.

SITE HAS MORE THAN 20% NET REDUCTION IN VOLUMETRIC RUNOFF COEFFICIENT
 $R_v = 0.05 + 0.9(i)$
 i (EXISTING) = 0.70
 i (PROPOSED) = 0.53 = 25% REDUCTION



STORM SEWER AND GRADING PLAN



STORM SEWER AND GRADING PLAN
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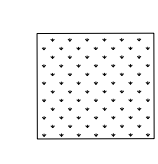
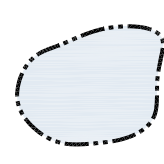
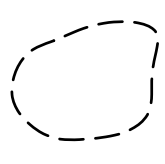
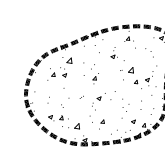
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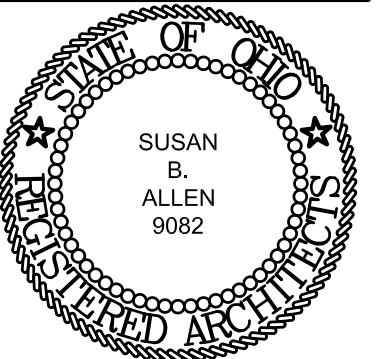
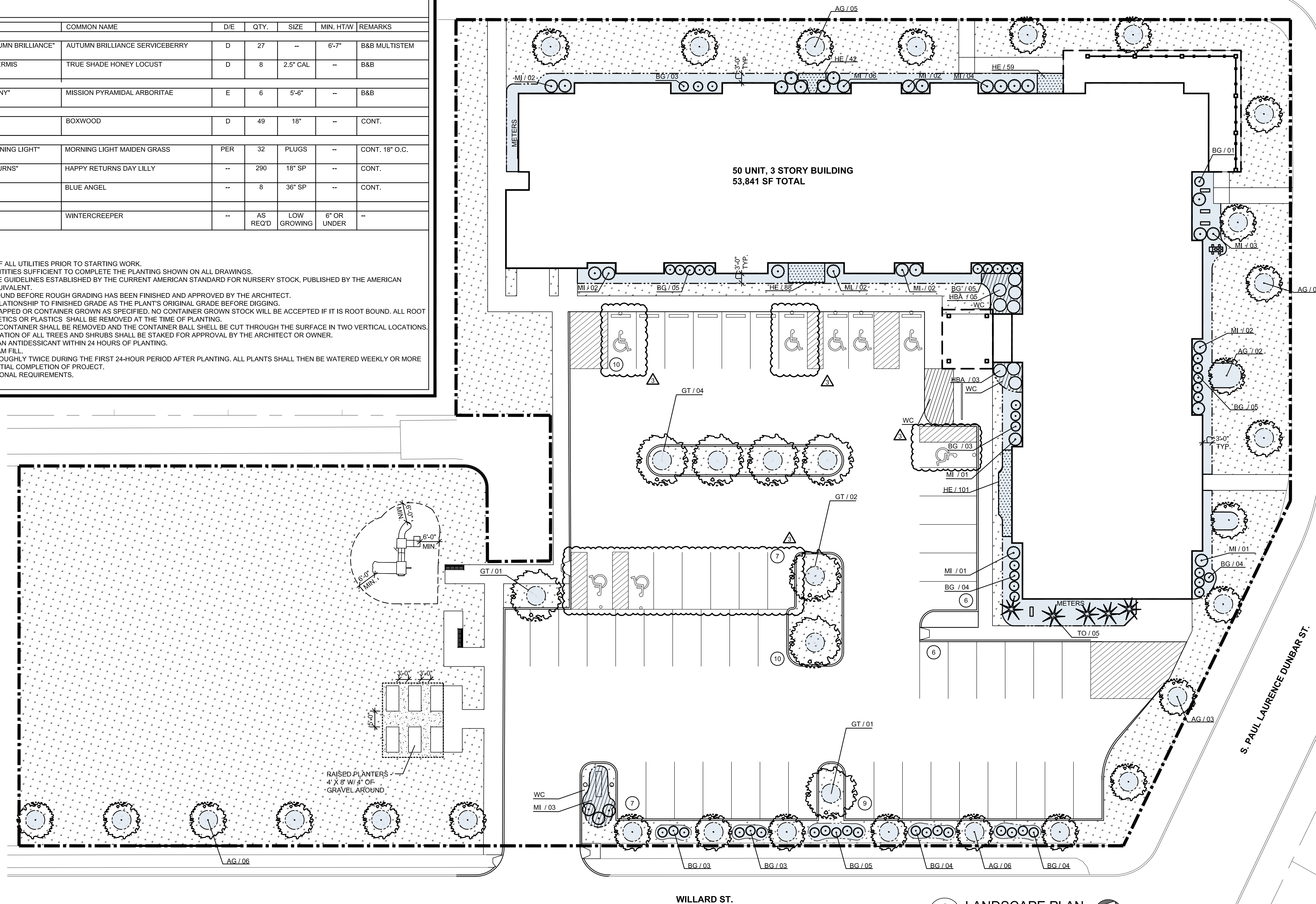
	INDICATES GRASS AREAS. SEE SPECIFICATIONS FOR SEED MIXTURE (ALL DISTURBED AREAS ARE TO BE SEEDED)		INDICATES DOUBLE SHREDED DIED HARDWOOD MULCH BOUNDARIES		PLAYGROUND FALL PROTECTION		INDICATES GRAVEL AREAS
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PLANT LIST:

KEY	BOTANICAL NAME	COMMON NAME	D/E	QTY.	SIZE	MIN. HT/W	REMARKS
DECIDUOUS TREES							
AG	AMELANCHIER GRAND "AUTUMN BRILLIANCE"	AUTUMN BRILLIANCE SERVICEBERRY	D	27	--	6'-7"	B&B MULTISTEM
GT	GLEDITSIA TRIACANTHOS INERMIS	TRUE SHADE HONEY LOCUST	D	8	2.5" CAL	--	B&B
CONIFEROUS TREES							
TO	THUJA OCCIDENTALIS "TECHNY"	MISSION PYRAMIDAL ARBORITAE	E	6	5'-6"	--	B&B
SHRUBS							
BG	BUXUX X. "GREEN VELVET"	BOXWOOD	D	49	18"	--	CONT.
GRASSES							
MI	MISCANTHUS SINENSIS "MORNING LIGHT"	MORNING LIGHT MAIDEN GRASS	PER	32	PLUGS	--	CONT. 18" O.C.
HE	HEMEROCALLIS "HAPPY RETURNS"	HAPPY RETURNS DAY LILLY	--	290	18" SP	--	CONT.
HBA	HOSTA "BLUE ANGEL"	BLUE ANGEL	--	8	36" SP	--	CONT.
GROUND COVER							
WC	EUONYMUS FORTUNEI	WINTERCREEPER	--	AS REQ'D	LOW GROWING	6" OR UNDER	--

GENERAL LANDSCAPING NOTES:

- LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK.
- SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS.
- ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN OR EQUIVALENT.
- NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED BY THE ARCHITECT.
- ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.
- ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED AT THE TIME OF PLANTING.
- WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE CONTAINER BALL SHELL BE CUT THROUGH THE SURFACE IN TWO VERTICAL LOCATIONS.
- THE DAY PRIOR TO PLANTING, THE LOCATION OF ALL TREES AND SHRUBS SHALL BE STAKED FOR APPROVAL BY THE ARCHITECT OR OWNER.
- ALL PLANTS SHALL BE SPRAYED WITH AN ANTIDESSICANT WITHIN 24 HOURS OF PLANTING.
- THE CONTRACTOR SHALL PROVIDE LOAM FILL.
- ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR MORE OFTEN, IF NECESSARY, UNTIL SUBSTANTIAL COMPLETION OF PROJECT.
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



SUSAN B. ALLEN
License #9082
Expiration Date 12/31/2023

REVISIONS

- BULLETIN 01 07/17/2023
- BULLETIN 02 09/19/2023
- BULLETIN 03 10/16/2023

LANDSCAPE PLAN
GERMANTOWN CROSSING
DAYTON OHIO



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**TURNING VISIONS
INTO REALITY**

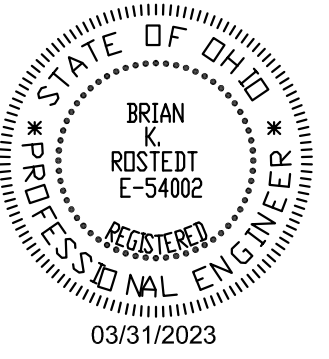
03/31/2023

DATE

82A21

PROJECT NUMBER

L100
DRAWING NUMBER



REVISIONS

- ▲ BULLETIN 1 07/17/2023
- ▲ BULLETIN 2 09/19/2023
- ▲ BULLETIN 3 10/16/2023

FOUNDATION PLAN
GERMANTOWN CROSSING
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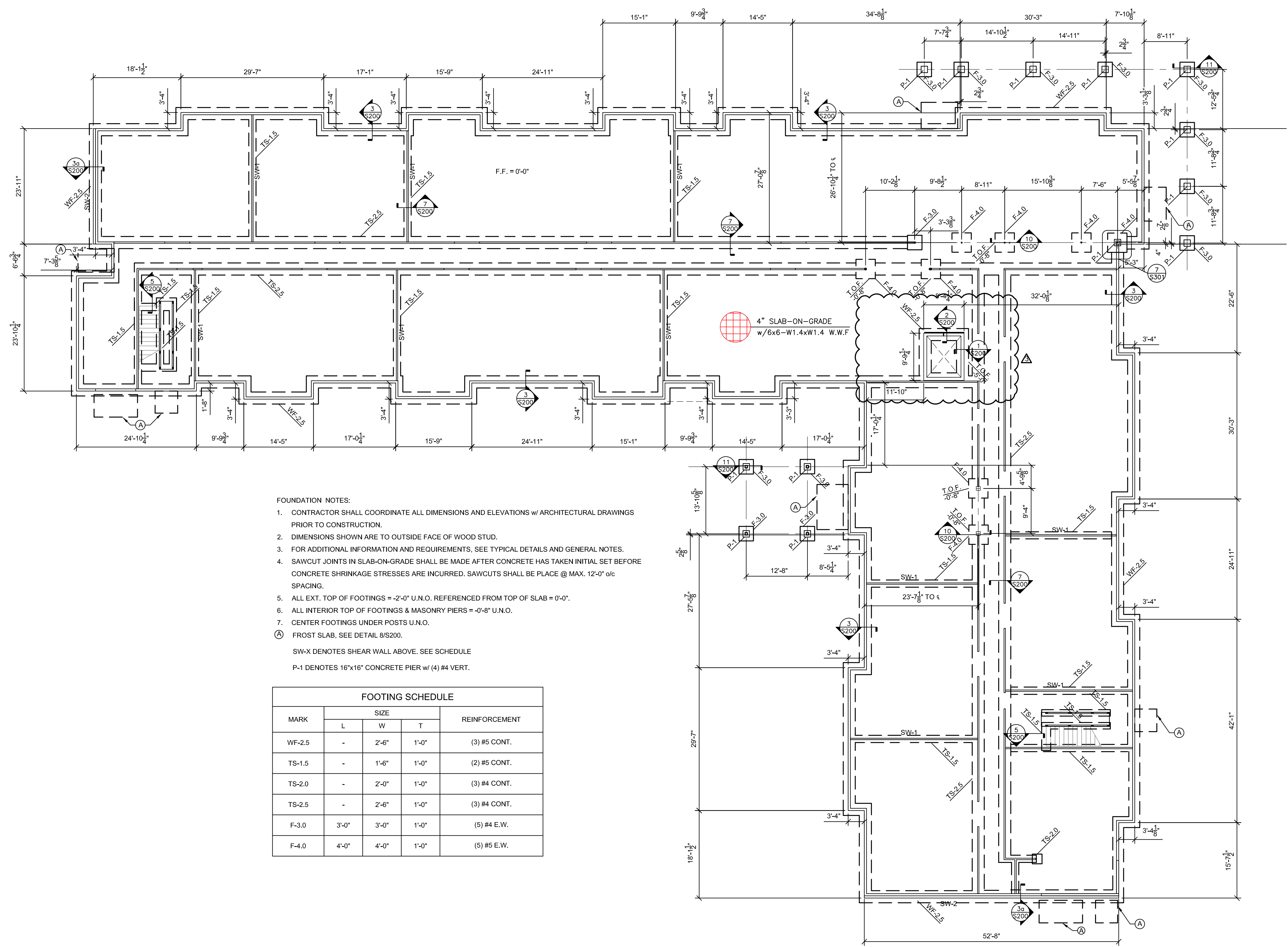
DATE

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PROJECT NUMBER

S100

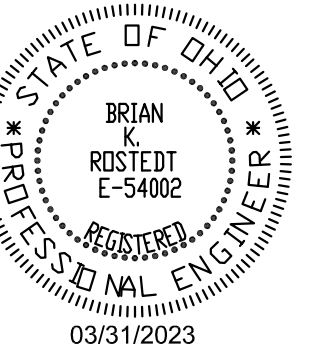
DRAWING NUMBER



- FOUNDATION NOTES:**
1. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS w/ ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
 2. DIMENSIONS SHOWN ARE TO OUTSIDE FACE OF WOOD STUD.
 3. FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE TYPICAL DETAILS AND GENERAL NOTES.
 4. SAWCUT JOINTS IN SLAB-ON-GRADE SHALL BE MADE AFTER CONCRETE HAS TAKEN INITIAL SET BEFORE CONCRETE SHRINKAGE STRESSES ARE INCURRED. SAWCUTS SHALL BE PLACE @ MAX. 12'-0" o/c SPACING.
 5. ALL EXT. TOP OF FOOTINGS = -2'-0" U.N.O. REFERENCED FROM TOP OF SLAB = 0'-0".
 6. ALL INTERIOR TOP OF FOOTINGS & MASONRY PIERS = -0'-8" U.N.O.
 7. CENTER FOOTINGS UNDER P.O.S.
 - ⑧ FROST SLAB, SEE DETAIL 8/S200.
- SW-X DENOTES SHEAR WALL ABOVE. SEE SCHEDULE
 P-1 DENOTES 16"x16" CONCRETE PIER w/ (4) #4 VERT.

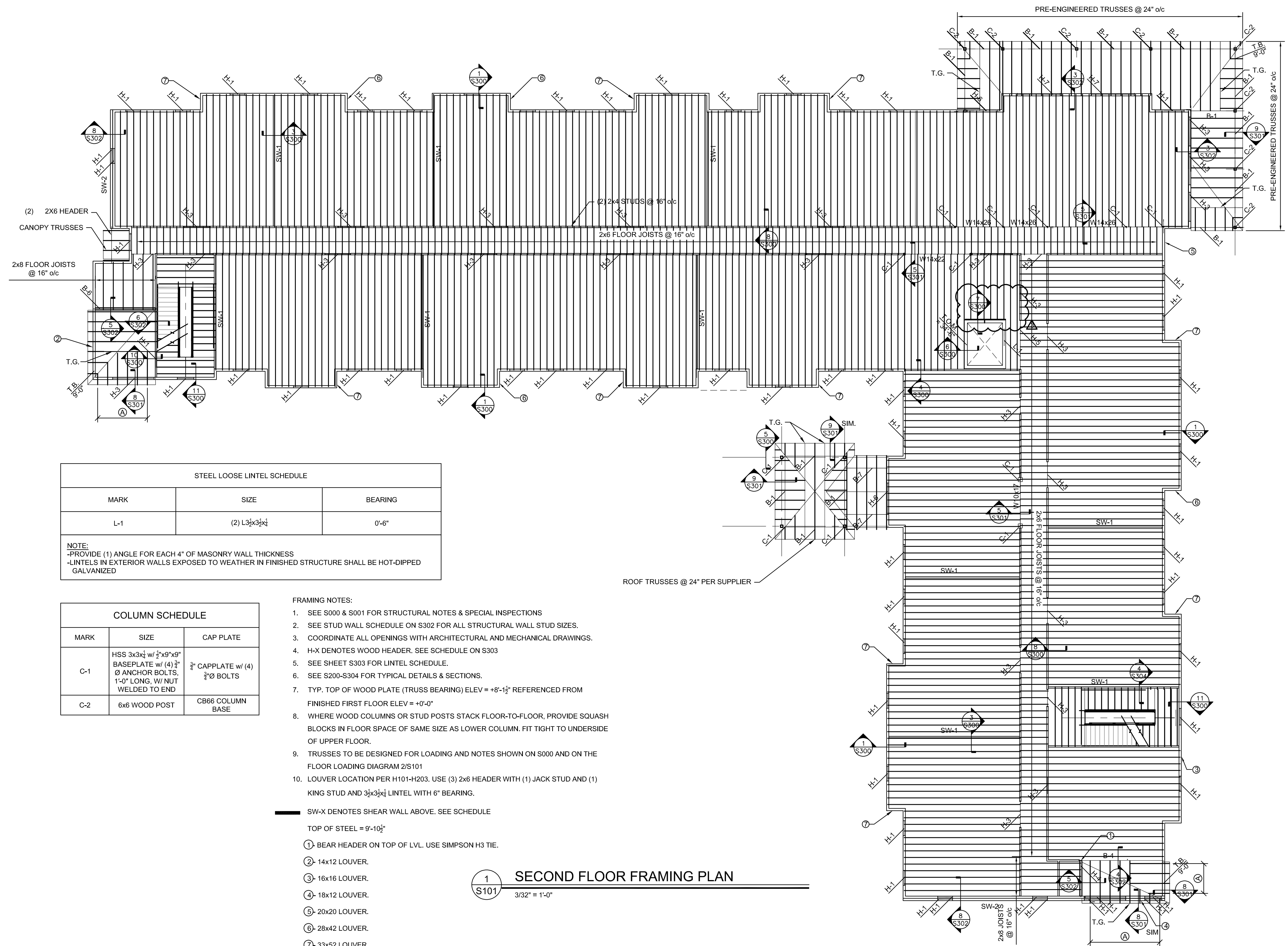
MARK	SIZE			REINFORCEMENT
	L	W	T	
WF-2.5	-	2'-6"	1'-0"	(3) #5 CONT.
TS-1.5	-	1'-6"	1'-0"	(2) #5 CONT.
TS-2.0	-	2'-0"	1'-0"	(3) #4 CONT.
TS-2.5	-	2'-6"	1'-0"	(3) #4 CONT.
F-3.0	3'-0"	3'-0"	1'-0"	(5) #4 E.W.
F-4.0	4'-0"	4'-0"	1'-0"	(5) #5 E.W.

1
S100
FOUNDATION PLAN
 3/32" = 1'-0"



REVISIONS

▲ BULLETIN 1	07/17/2023
▲ BULLETIN 2	09/19/2023
▲ BULLETIN 3	10/16/2023



STEEL LOOSE LINTEL SCHEDULE		
MARK	SIZE	BEARING
L-1	(2) L $3\frac{1}{2}$ x $3\frac{1}{2}$ x $\frac{1}{4}$	0'-6"

NOTE:
 -PROVIDE (1) ANGLE FOR EACH 4" OF MASONRY WALL THICKNESS
 -LINTELS IN EXTERIOR WALLS EXPOSED TO WEATHER IN FINISHED STRUCTURE SHALL BE HOT-DIPPED GALVANIZED

COLUMN SCHEDULE		
MARK	SIZE	CAP PLATE
C-1	HSS 3x3x $\frac{1}{4}$ w/ $\frac{1}{2}$ "x9"x9" BASEPLATE w/ (4) $\frac{3}{4}$ " \varnothing ANCHOR BOLTS, 1'-0" LONG, W/ NUT WELDED TO END	$\frac{3}{4}$ " CAPPLATE w/ (4) $\frac{3}{4}$ " \varnothing BOLTS
C-2	6x6 WOOD POST	CB66 COLUMN BASE

- FRAMING NOTES:
- SEE S000 & S001 FOR STRUCTURAL NOTES & SPECIAL INSPECTIONS
 - SEE STUD WALL SCHEDULE ON S302 FOR ALL STRUCTURAL WALL STUD SIZES.
 - COORDINATE ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 - H-X DENOTES WOOD HEADER. SEE SCHEDULE ON S303
 - SEE SHEET S303 FOR LINTEL SCHEDULE.
 - SEE S200-S304 FOR TYPICAL DETAILS & SECTIONS.
 - TYP. TOP OF WOOD PLATE (TRUSS BEARING) ELEV = +8'-1 $\frac{1}{2}$ " REFERENCED FROM FINISHED FIRST FLOOR ELEV = +0'-0"
 - WHERE WOOD COLUMNS OR STUD POSTS STACK FLOOR-TO-FLOOR, PROVIDE SQUASH BLOCKS IN FLOOR SPACE OF SAME SIZE AS LOWER COLUMN. FIT TIGHT TO UNDERSIDE OF UPPER FLOOR.
 - TRUSSES TO BE DESIGNED FOR LOADING AND NOTES SHOWN ON S000 AND ON THE FLOOR LOADING DIAGRAM 2/S101
 - LOUVER LOCATION PER H101-H203. USE (3) 2x6 HEADER WITH (1) JACK STUD AND (1) KING STUD AND $3\frac{1}{2}$ x $3\frac{1}{2}$ x $\frac{1}{4}$ LINTEL WITH 6" BEARING.

- SW-X DENOTES SHEAR WALL ABOVE. SEE SCHEDULE
- TOP OF STEEL = 9'-10 $\frac{1}{2}$ "
- BEAR HEADER ON TOP OF LVL. USE SIMPSON H3 TIE.
 - 14x12 LOUVER.
 - 16x16 LOUVER.
 - 18x12 LOUVER.
 - 20x20 LOUVER.
 - 28x42 LOUVER.
 - 33x52 LOUVER.
 - ROOF TRUSSES @ 24" o/c

1 SECOND FLOOR FRAMING PLAN
 3/32" = 1'-0"

2 LOADING DIAGRAM
 1/32" = 1'-0"

2ND FLOOR FRAMING PLAN
GERMANTOWN CROSSING
DAYTON OHIO

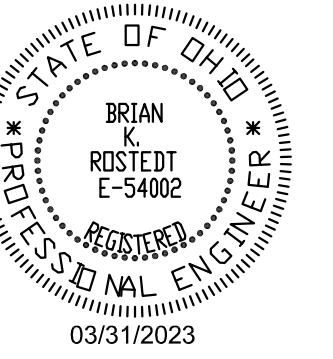


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 82A21
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S101
 DRAWING NUMBER



REVISIONS

- ▲ BULLETIN 1 07/17/2023
- ▲ BULLETIN 2 09/19/2023
- ▲ BULLETIN 3 10/16/2023

3RD FLOOR FRAMING PLAN
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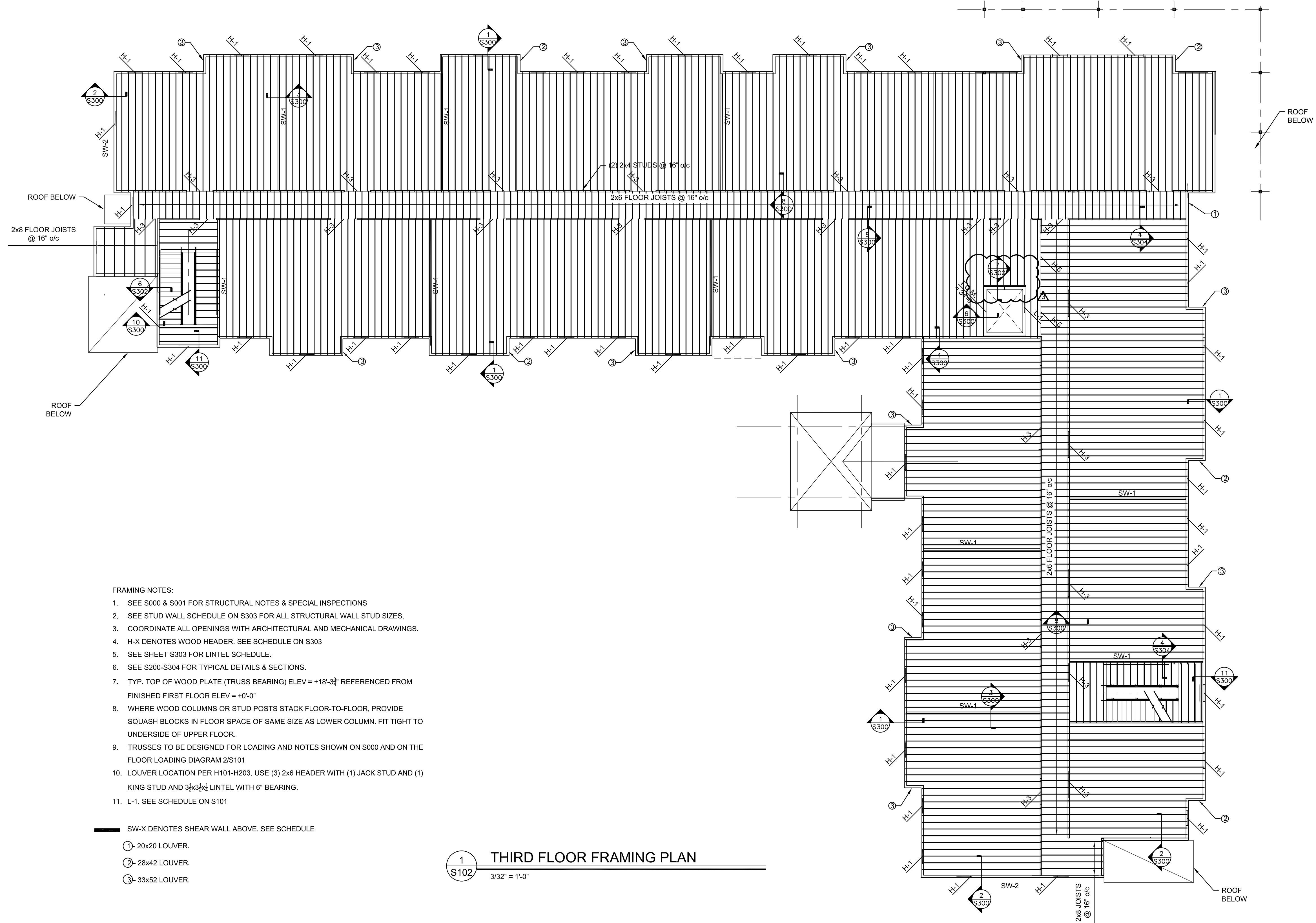
DATE

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PROJECT NUMBER

S102

DRAWING NUMBER



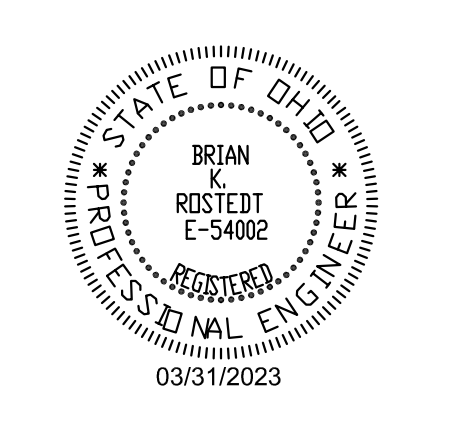
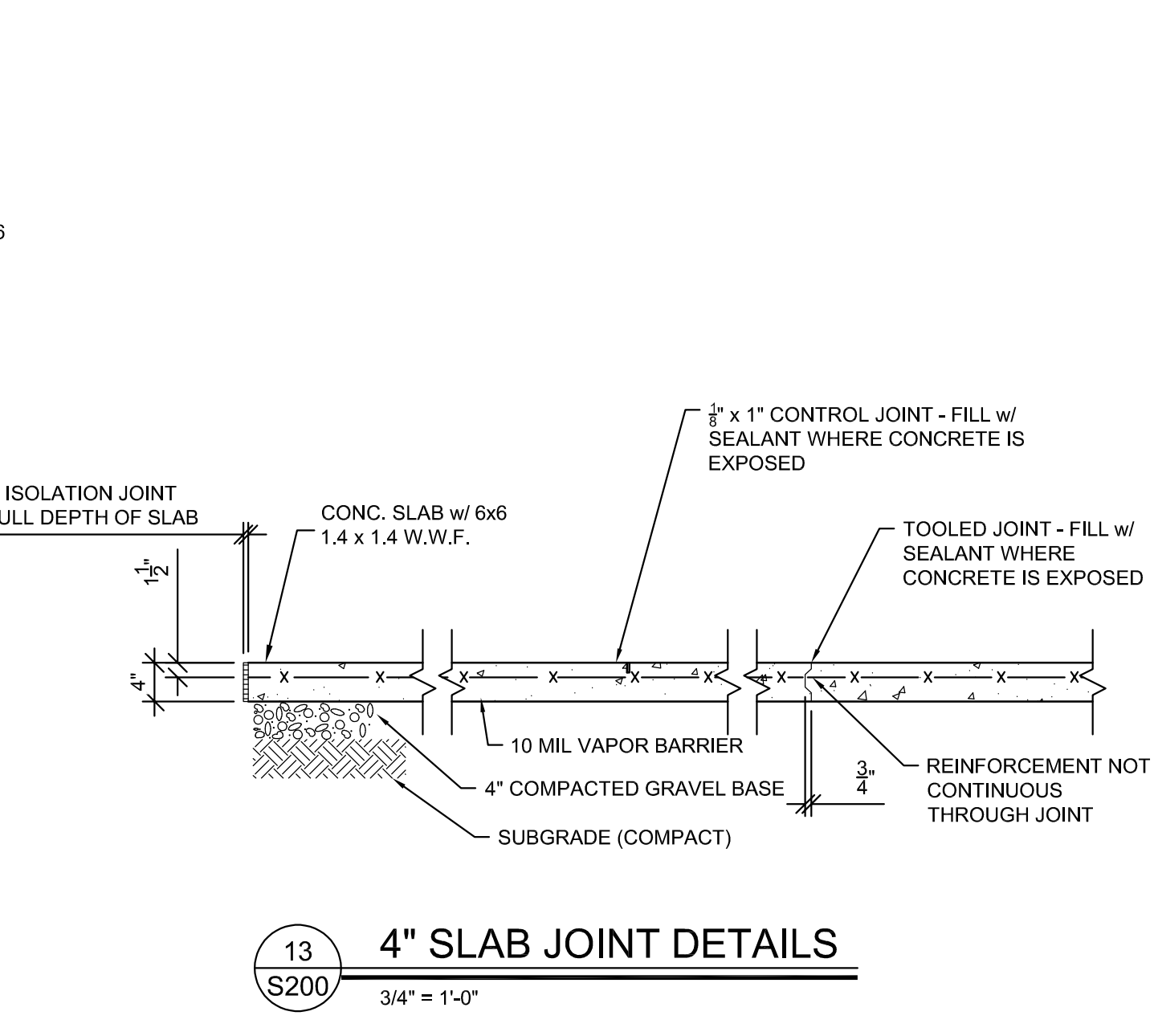
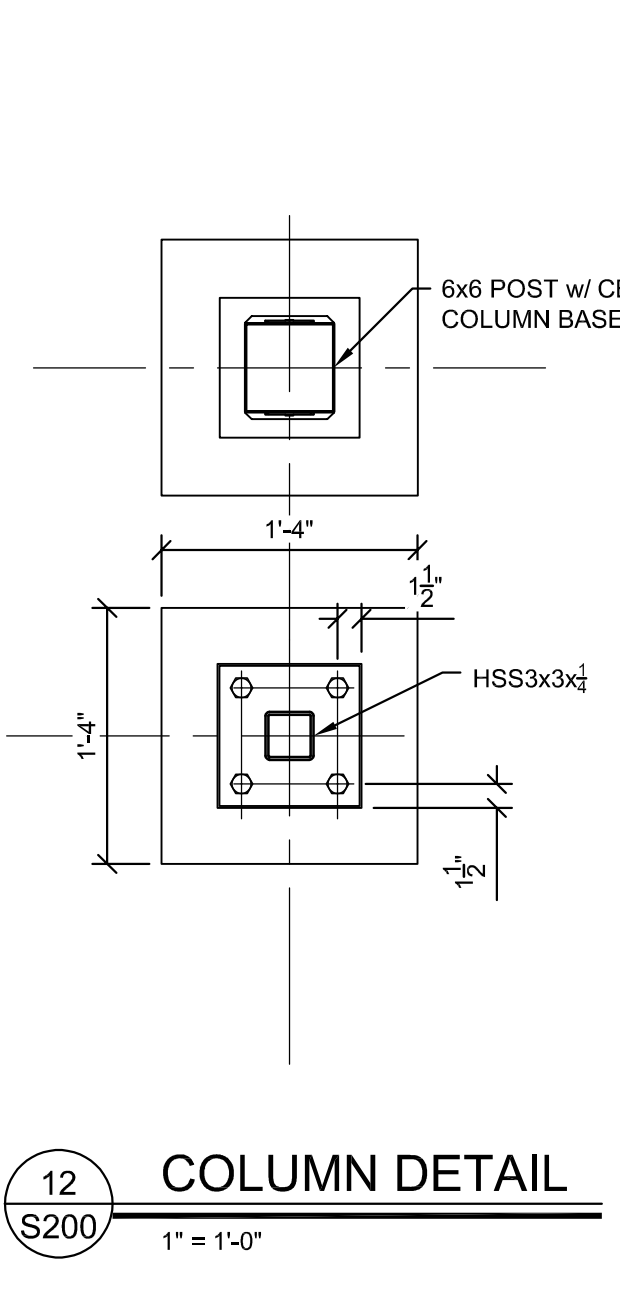
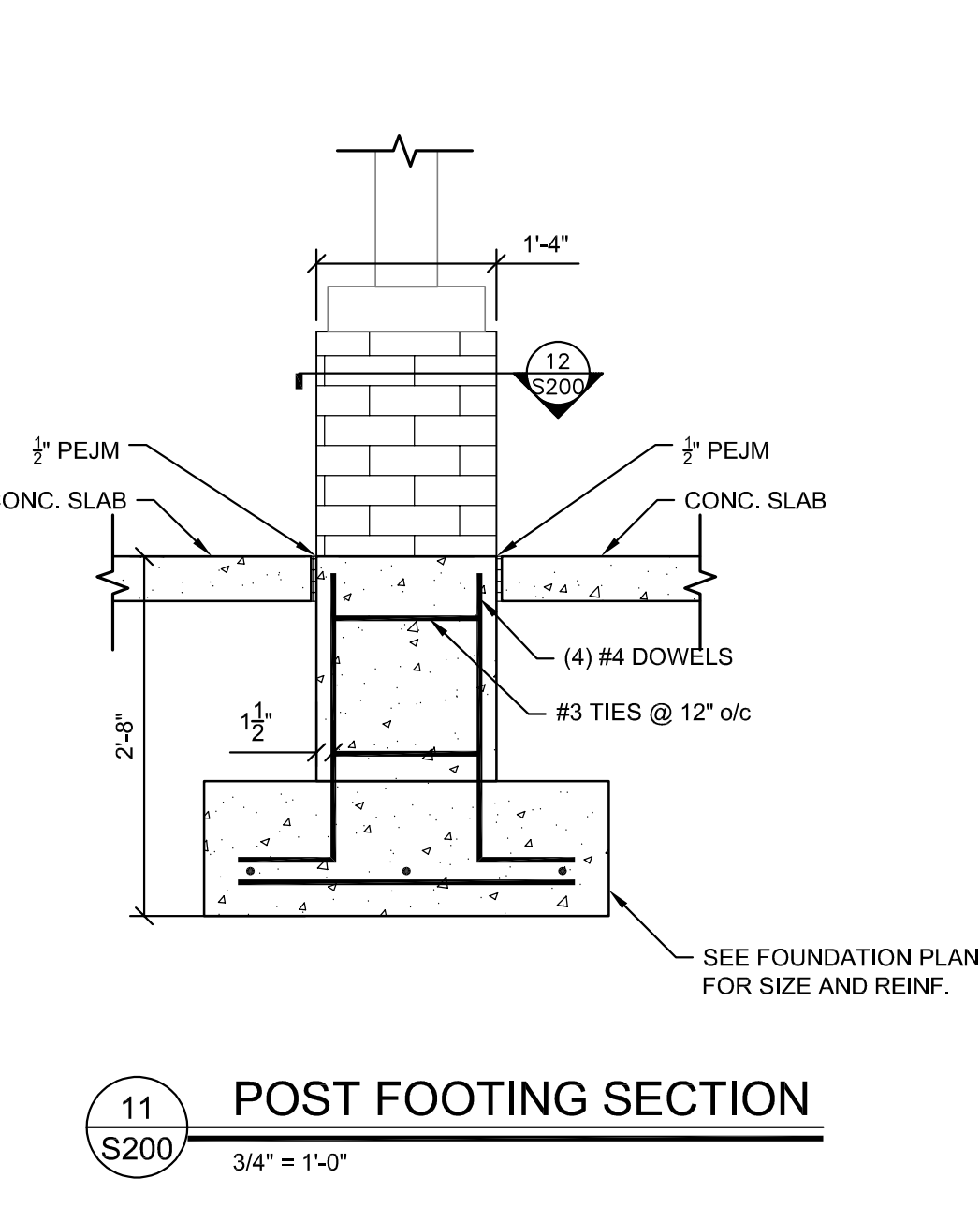
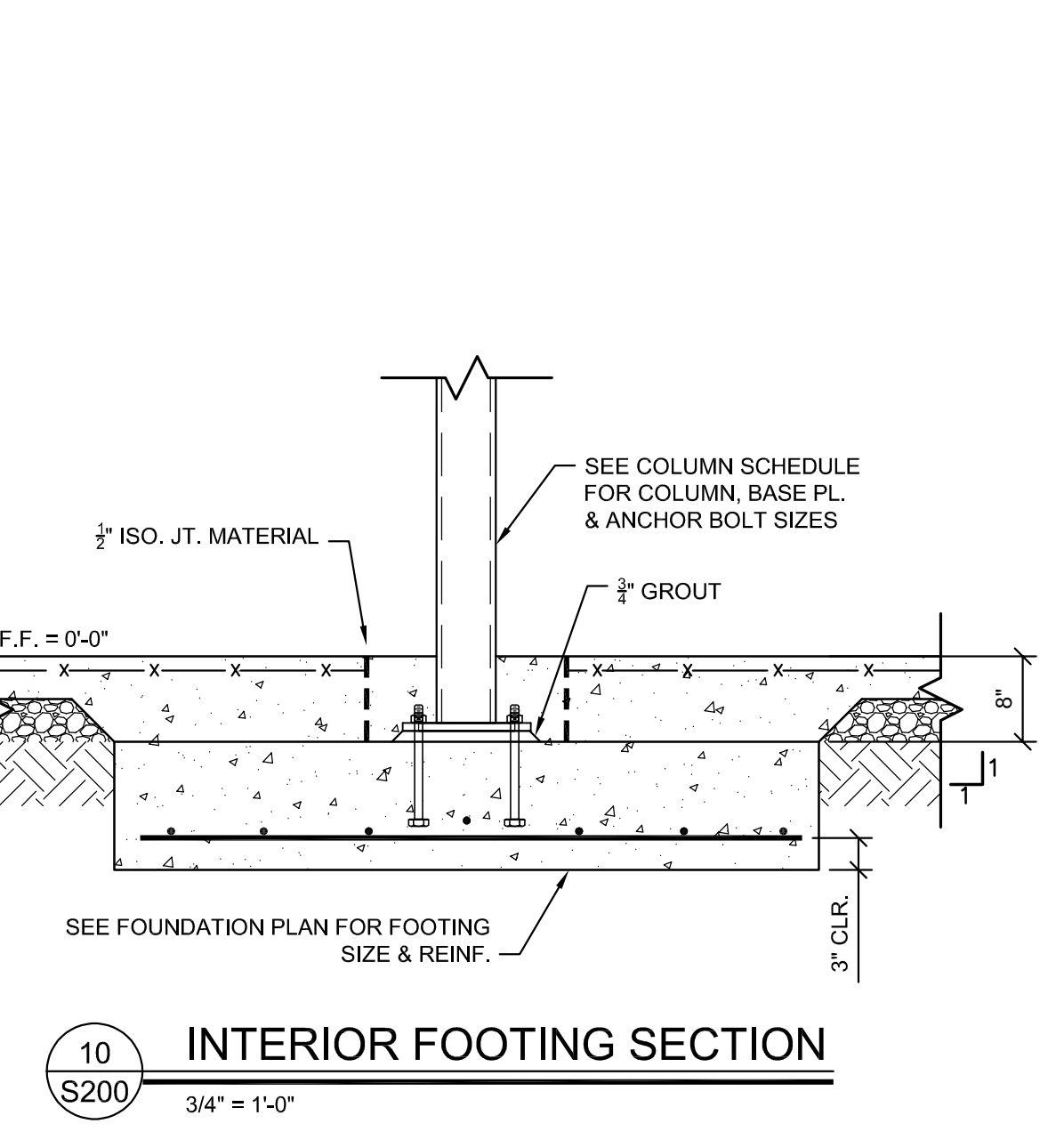
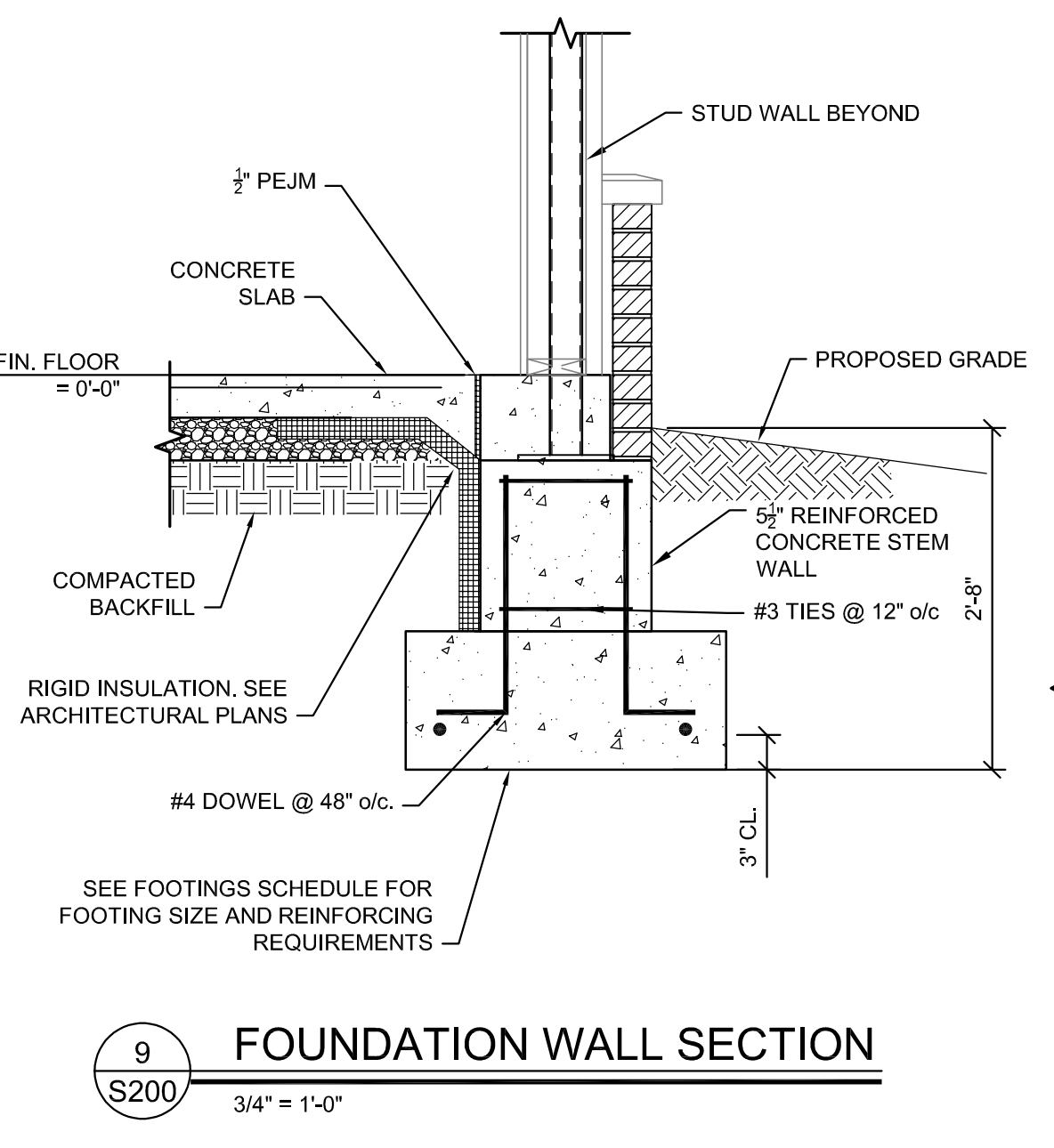
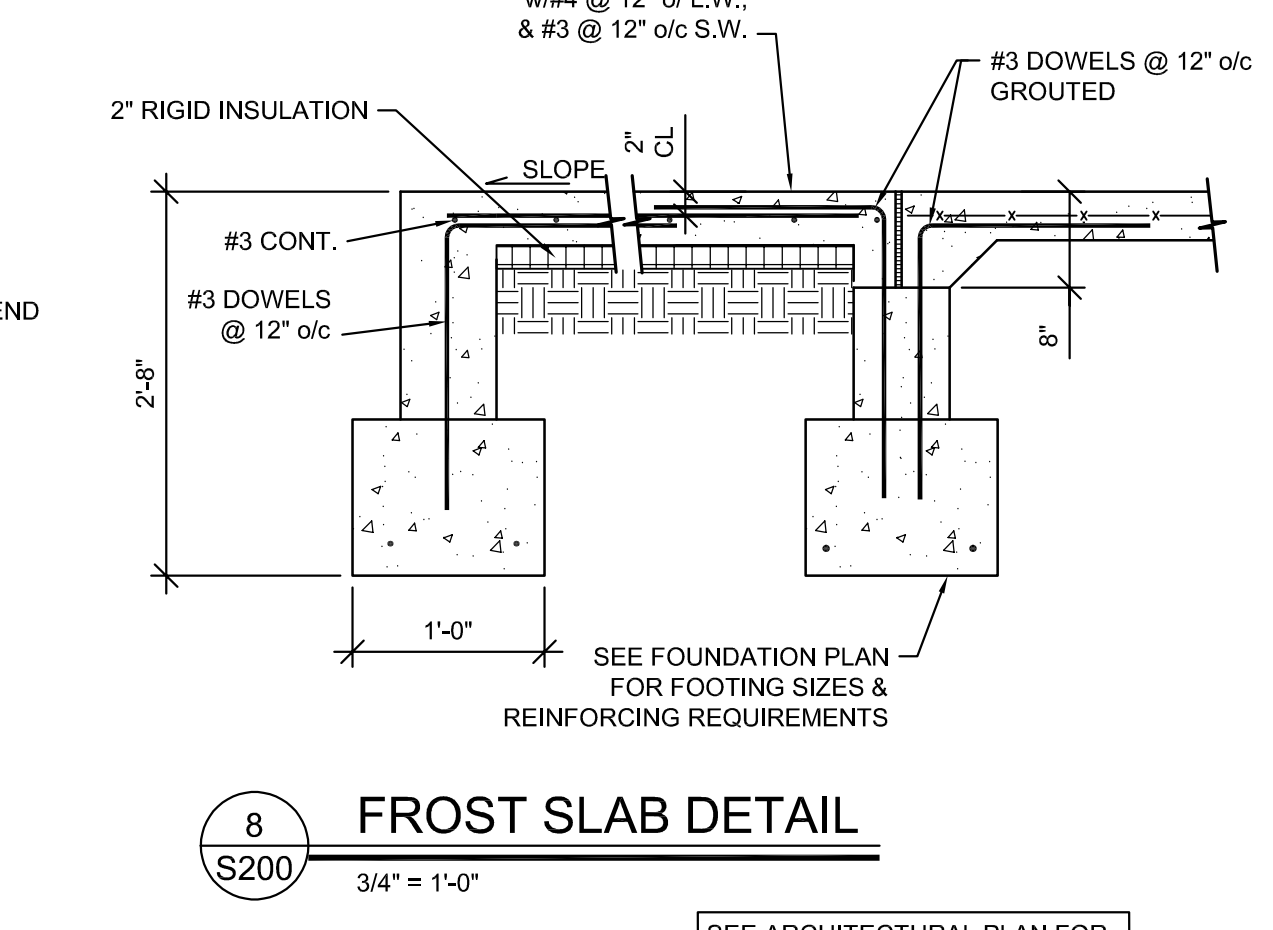
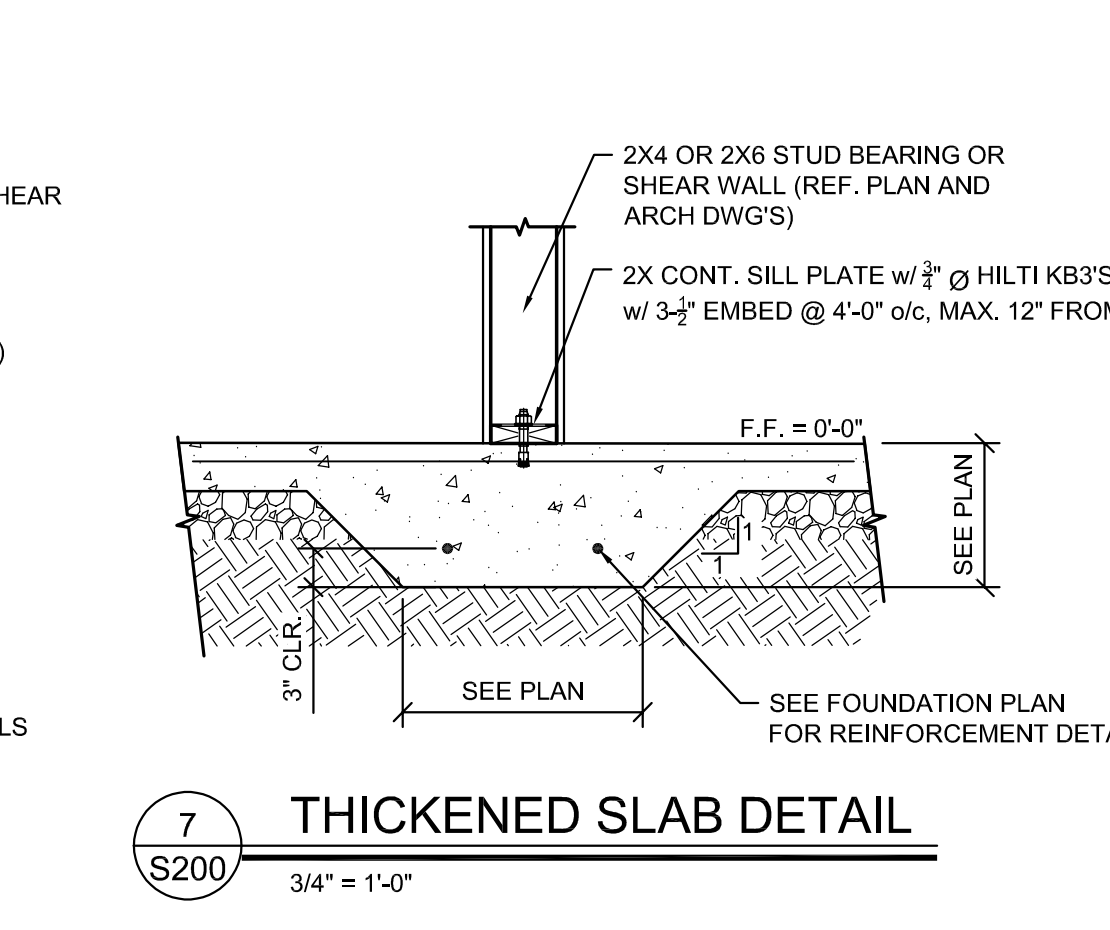
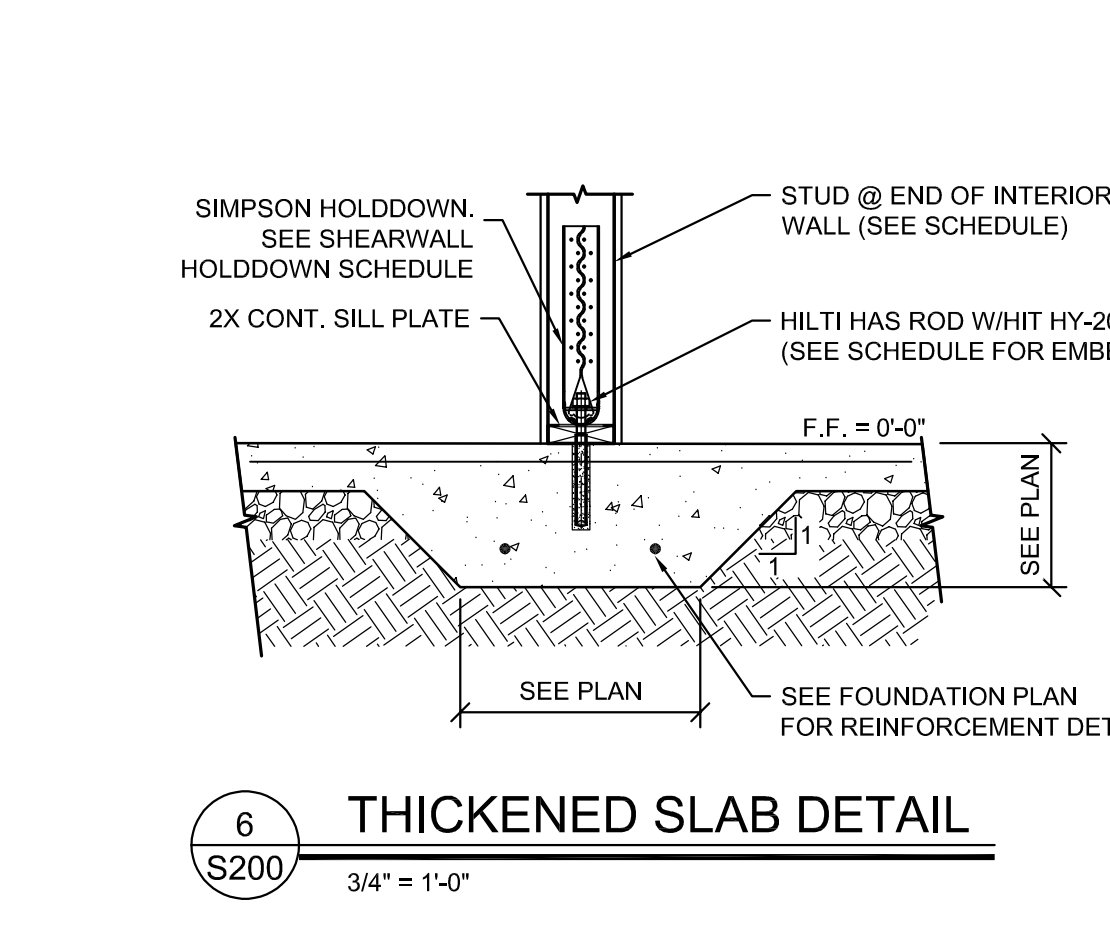
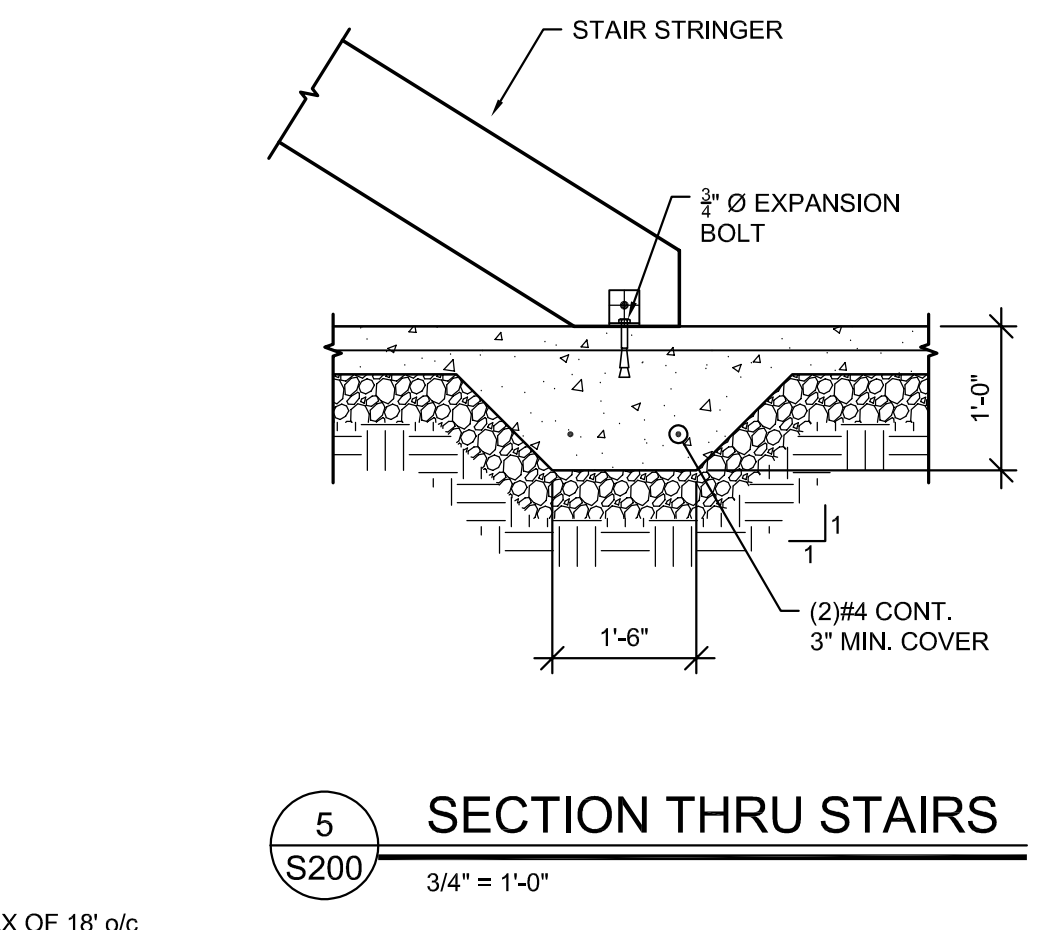
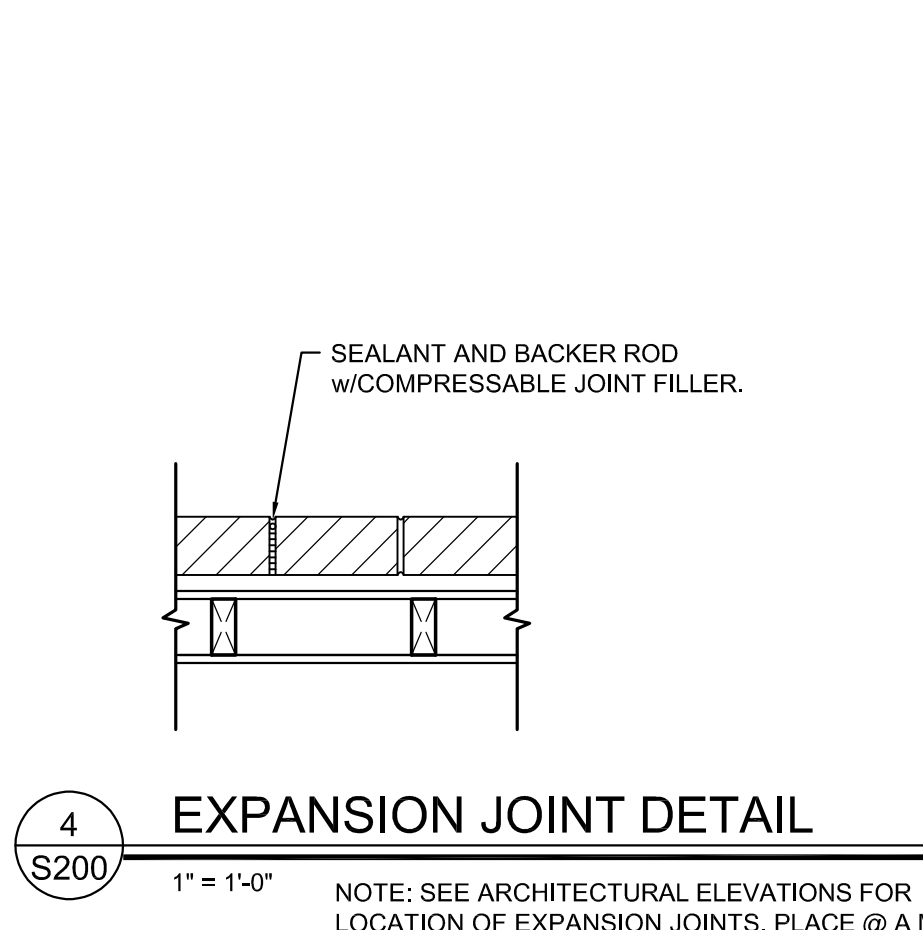
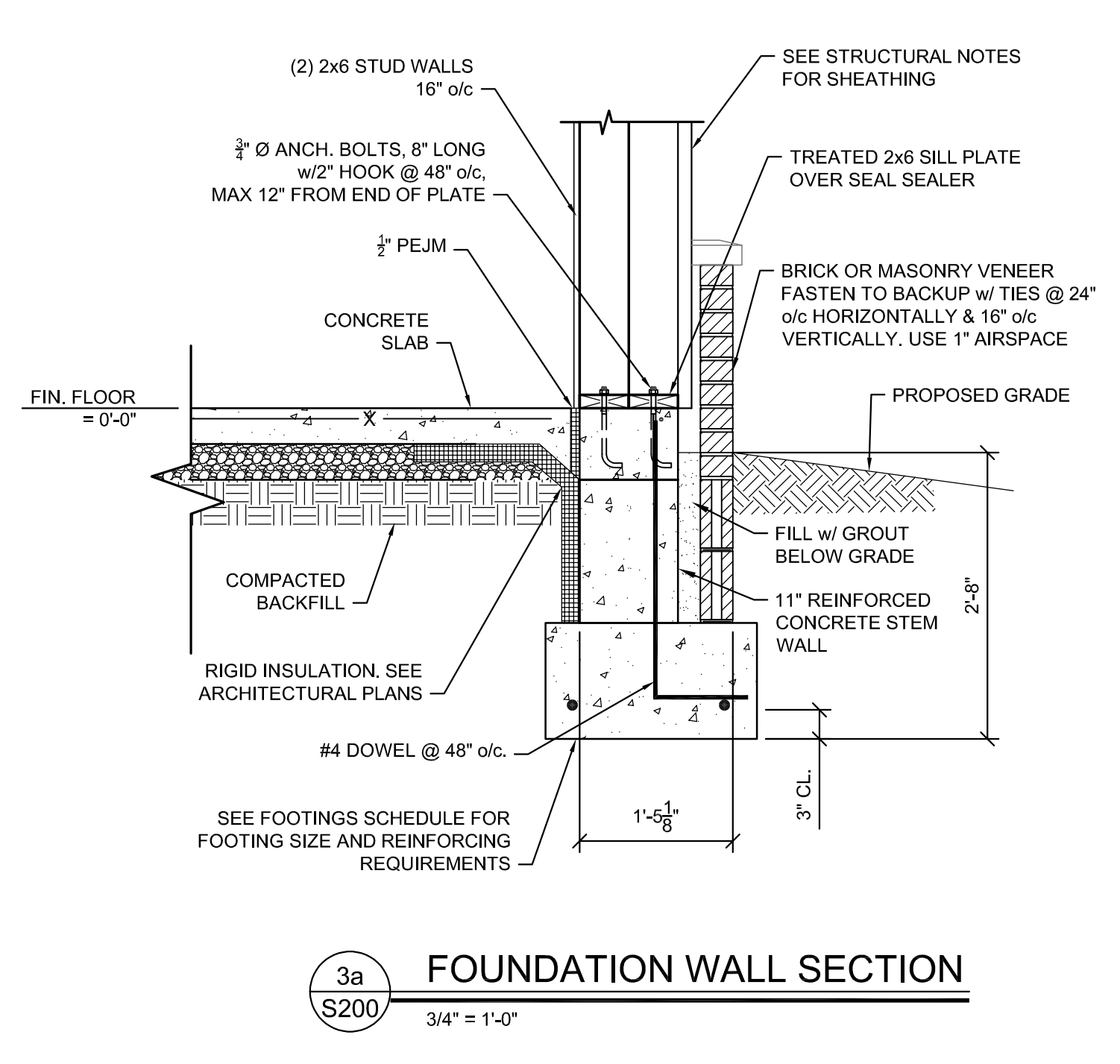
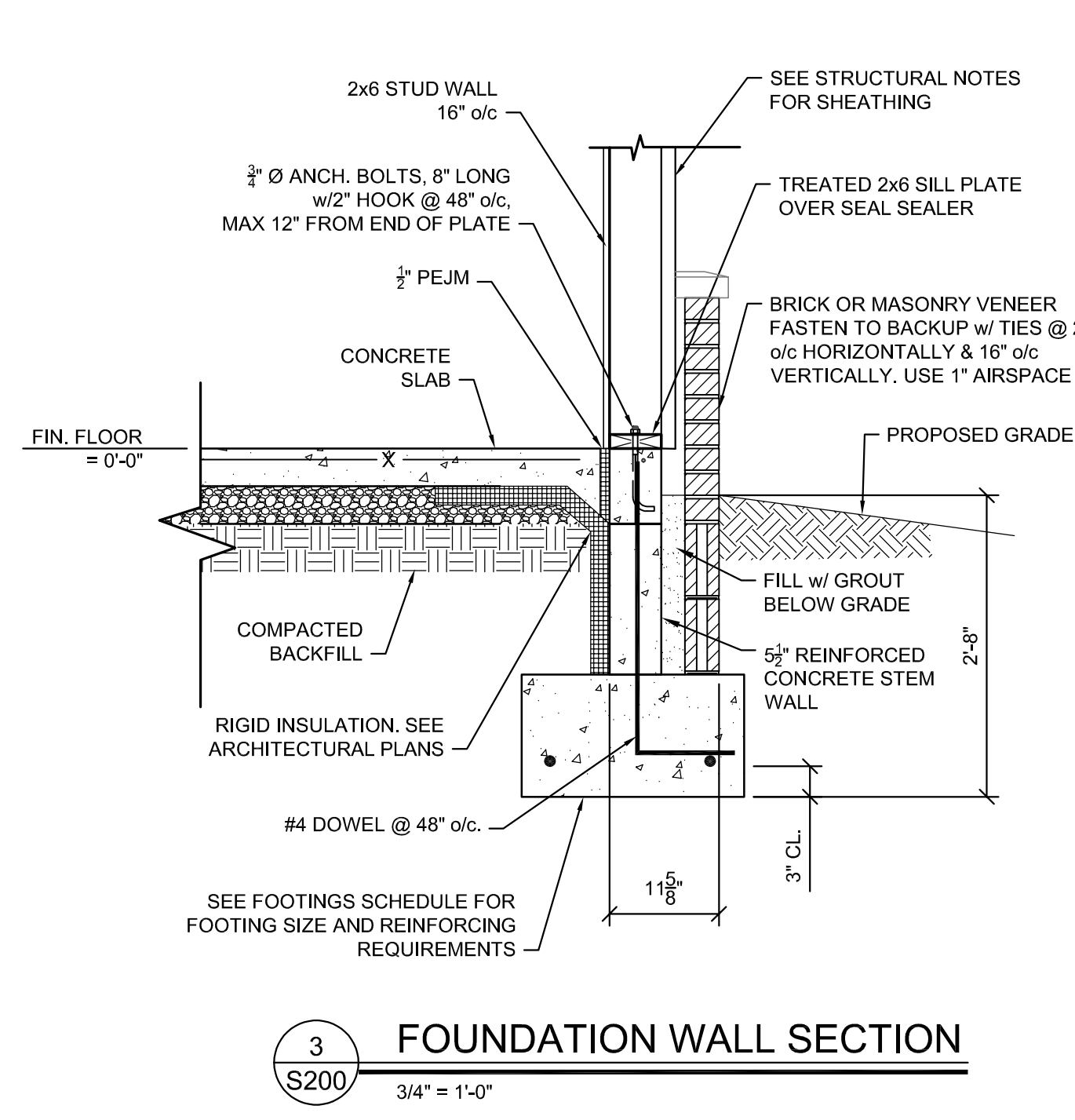
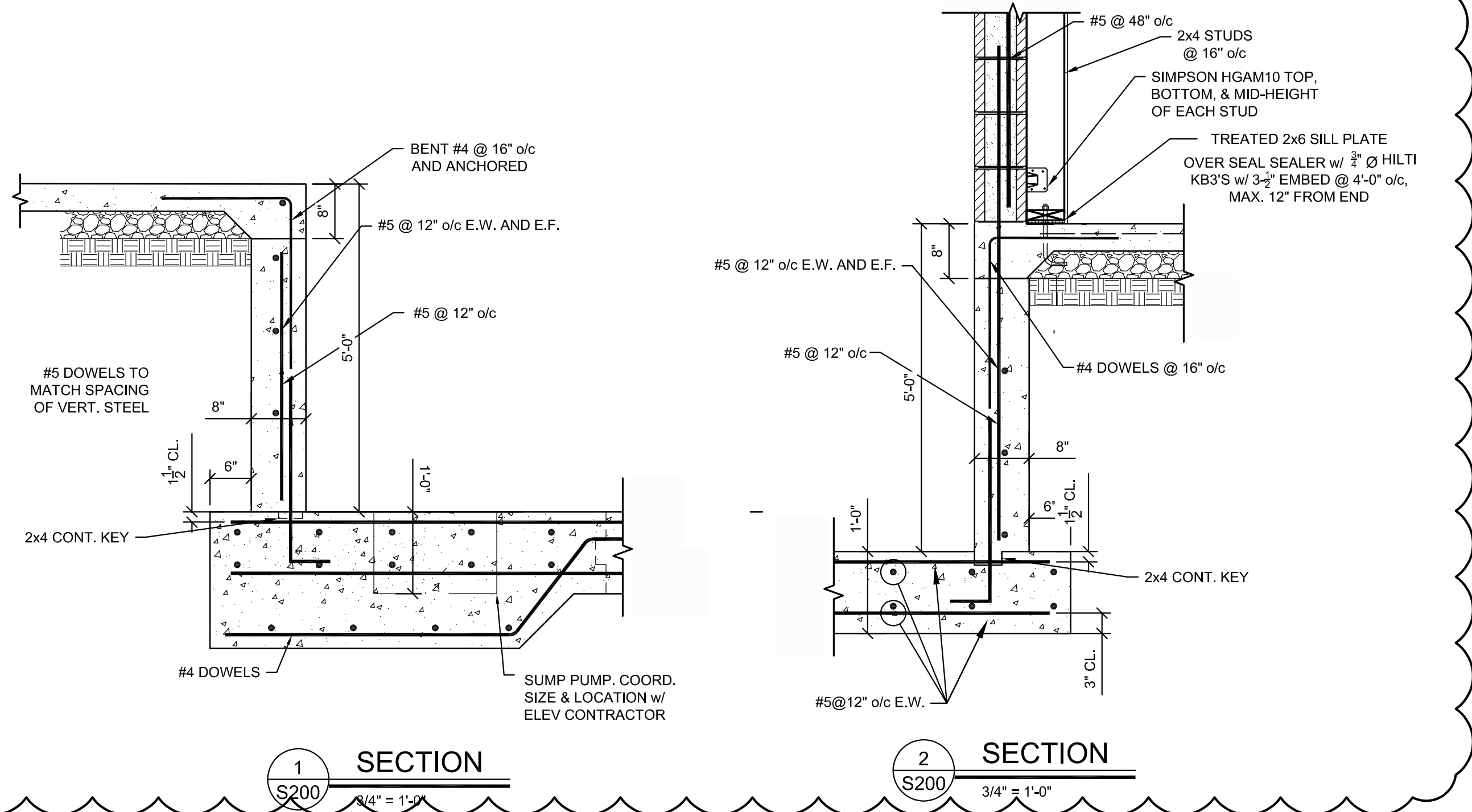
FRAMING NOTES:

1. SEE S000 & S001 FOR STRUCTURAL NOTES & SPECIAL INSPECTIONS
2. SEE STUD WALL SCHEDULE ON S303 FOR ALL STRUCTURAL WALL STUD SIZES.
3. COORDINATE ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
4. H-X DENOTES WOOD HEADER. SEE SCHEDULE ON S303
5. SEE SHEET S303 FOR LINTEL SCHEDULE.
6. SEE S200-S304 FOR TYPICAL DETAILS & SECTIONS.
7. TYP. TOP OF WOOD PLATE (TRUSS BEARING) ELEV = +18'-3 3/4" REFERENCED FROM FINISHED FIRST FLOOR ELEV = +0'-0"
8. WHERE WOOD COLUMNS OR STUD POSTS STACK FLOOR-TO-FLOOR, PROVIDE SQUASH BLOCKS IN FLOOR SPACE OF SAME SIZE AS LOWER COLUMN. FIT TIGHT TO UNDERSIDE OF UPPER FLOOR.
9. TRUSSES TO BE DESIGNED FOR LOADING AND NOTES SHOWN ON S000 AND ON THE FLOOR LOADING DIAGRAM 2/S101
10. LOUVER LOCATION PER H101-H203. USE (3) 2x6 HEADER WITH (1) JACK STUD AND (1) KING STUD AND 3/4x3/4 LINTEL WITH 6" BEARING.
11. L-1. SEE SCHEDULE ON S101

SW-X DENOTES SHEAR WALL ABOVE. SEE SCHEDULE

- ①- 20x20 LOUVER.
- ②- 28x42 LOUVER.
- ③- 33x52 LOUVER.

1
S102 **THIRD FLOOR FRAMING PLAN**
 3/32" = 1'-0"



REVISIONS	
▲ BULLETIN 1	07/17/2023
▲ BULLETIN 3	10/16/2023

FOUNDATION SECTIONS
GERMANTOWN CROSSING
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S200
DRAWING NUMBER

PLUMBING FIXTURE SCHEDULE												
MARK NO.	DESCRIPTION	MANUFACTURER	MODEL	SIZE	TRIM	DRAINAGE		WATER		CARRIER	REMARKS	
						W.P.	V.P.	CW	HW			
P1-1	WATER CLOSET (ADA)	ZURN	Z5561	-	a1,a2,d1	4"	2"	1-1/4"	-	-	FLOOR MOUNT, FLOOR OUTLET, VITREOUS CHINA, ELONGATED BOWL, 1-1/2" TOP INLET SPUD, SIPHON JET ACTION, RIM AT 17" A.F.F. 2-PIECE TOILET WITH PRESSURE ASSISTED TANK, 1.0 GPF.	
P1-2	WATER CLOSET	ZURN	Z5571	-	a1,a2,d1	4"	2"	1/2"	-	-	FLOOR MOUNT, FLOOR OUTLET, VITREOUS CHINA, ELONGATED BOWL, 1-1/2" TOP INLET SPUD, SIPHON JET ACTION, RIM AT 15" A.F.F. 2-PIECE TOILET WITH PRESSURE ASSISTED TANK, 1.0 GPF.	
F2-1	LAVATORY	AMERICAN STANDARD	AQUALYN	-	a4,a5,b1,c1,d2,d3	1-1/2"	1-1/2"	1/2"	1/2"	-	COUNTER MOUNT, VITREOUS CHINA WITH ROUND BASIN AND OVERFLOW, FAUCET HOLES ON 4" CENTERS.	
P3-1	DOUBLE BOWL SINK	ELKAY	DSE23322	33"x22"x8"	a3,b1,c2,d2	1-1/2"	1-1/2"	1/2"	1/2"	-	20 GAUGE S.S. DOUBLE BOWL UNDER MOUNT SINK, 4" CENTER FAUCET HOLES (OPTION 4), 8" DEEP BOWL, BOTTOM ONLY PADS.	
P3-2	DOUBLE BOWL SINK (ADA)	ELKAY	D23322	33"x22"x6-1/2"	a3,b1,c2,d2	1-1/2"	1-1/2"	1/2"	1/2"	-	20 GAUGE S.S. DOUBLE BOWL UNDER MOUNT SINK, 4" CENTER FAUCET HOLES (OPTION 4), 6-1/2" DEEP BOWL, BOTTOM ONLY PADS, ADA COMPLIANT.	
P4-1	SHOWER (ADA)	AQUATIC	1603BFC	62"x36"x77"	a6,b3,d4	3"	1-1/2"	1/2"	1/2"	-	ADA COMPLIANT SHOWER WITH PRE-LEVELLED BASE, CENTER DRAIN LOCATION AND SLIP RESISTANT TEXTURED BOTTOM FULLY EQUIPPED WITH ADA COMPLIANT SEAT. COORDINATE LEFT/RIGHT HAND REQUIREMENTS WITH FLOOR PLANS. COORDINATE FINISH WITH ARCHITECT.	
P4-2	BATH TUB	CLARION	8623L(TRT)	60"x33"x74"	a6,b3,d4	3"	1-1/2"	1/2"	1/2"	-	2-PIECE TUB/SHOWER WITH MOLDED SHELVING AND SLIP RESISTANT FLOOR, 1" ACRYLIC TOWEL BAR, 2-1/2" OVERFLOW AND INTEGRAL, 1" NAILING FLANGE. COORDINATE LEFT/RIGHT HAND REQUIREMENTS WITH FLOOR PLANS. COORDINATE FINISH WITH ARCHITECT.	
P5-1	MOP BASIN	FIAT	MSB-2424	24"x24"	a7,d5	3"	1-1/2"	1/2"	1/2"	-	MOLDED STONE MOP BASIN WITH 3" DRAIN AND STAINLESS STEEL STRAINER, VINYL BUMPER GUARD, HOSE AND HOSE BRACKET, MOP HANGER, AND TWO-PANEL STAINLESS STEEL WALL GUARD.	
P5-2	TUB SINK	FIAT	L-1	20"x17"	a8,b1,c2,d2	1-1/2"	1-1/2"	1/2"	1/2"	-	WALL MOUNT, HEAVY GAUGE GALVANIZED LAUNDRY TUB WITH STEEL BRACKET CAPABLE OF WITHSTANDING 600 LBS WITH INTEGRAL DRAIN AND STOPPER FAUCET HOLES ON 4" CENTERS.	
P6-1	WASHER BOX	IPS CORP	83045	-	-	2"	1-1/2"	1/2"	1/2"	-	2-HOUR FIRE RATED WASHING MACHINE OUTLET BOX WITH INTEGRAL 1/4 TURN VALVES WITH WATER HAMMER ARRESTORS AND INTEGRATED MOUNTING FLANGES.	
P7-1	HOSE BIBB	WOODFORD	MODEL 17	-	-	-	-	-	3/4"	-	3/4" NON-FREEZE WALL FAUCET WITH STRAIGHT INLET CONNECTION, BRONZE CASING, BRONZE FACE AND ANTI-SIPHON BACKFLOW PREVENTER. P.C. TO VERIFY WALL THICKNESS PRIOR TO PURCHASE.	
P8-1	ELECTRIC WATER COOLER	ELKAY	LZS7L8WSLK	-	c1,d2	1-1/2"	1-1/2"	1/2"	-	-	B1-ELEV ELECTRIC WATER COOLER WITH BUILT-IN FILTER, WALL MOUNT UNIT, 8.0 GPM CAPACITY, 50 DEG F. DRINKING WATER BASED ON 80 DEG F. ENTERING WATER, PUSHBAR CONTROLS, 6 FLA, 115V/1P. PROVIDE WITH BOTTLE FILLER.	

NOTES:
NOTE: ALL PLUMBING FIXTURES SHALL BE WATERSENSE CERTIFIED.

- a1. "ZURN" Z5972-COMB CLOSET BOLT AND WAX RING KIT.
- a2. "ZURN" Z5965SS-EL ELONGATED CLOSET FRONT TOILET SEAT WITH COVER AND STAINLESS STEEL CHECK HINGE.
- a3. "MOEN" CHATEAU 7430 SINGLE HANDLE 1.5 GPM KITCHEN FAUCET WITH SIDE SPRAY. FAUCET TO BE WATER SENSE CERTIFIED, ADA COMPLIANT.
- a4. "POWERS" NO. LRLM96-ASSE 1070 COMPLIANT THERMOSTATIC POINT OF USE MIXING VALVE SET AT 110 DEG. F. PROVIDE WITH INTEGRAL CHECK VALVES AND TEMPERATURE ADJUSTMENT WITH LOCK SCREW.
- a5. "MOEN" CHATEAU L4601 SINGLE HANDLE 1.5 GPM MAX LAVATORY FAUCET. FAUCET TO BE WATER SENSE CERTIFIED.
- a6. "MOEN" T2903 1.75 GPM ADA COMPLIANT TUB/SHOWER TRIM WITH 62370 (CO) PRESSURE BALANCING MIXING VALVE WITH 1/4 TURN STOPS. SHOWER VALVE AND HEAD TO BE WATER SENSE CERTIFIED.
- a7. "TAS" 8-065-BSTR SERVICE SINK FAUCET WITH VACUUM BREAKER AND PAL HOOK.
- a8. "MOEN" 74998 TWO HANDLE 1.5 GPM UTILITY SINK FAUCET WITH LEVER STYLE HANDLES.
- b1. "CHICAGO FAUCETS" NO. 337 OFFSET GRID STRAINER.
- b2. "AMERICAN STANDARD" NO. 2411.015 DRAIN ASSEMBLY (1-1/4" TAILPIECE)
- b3. "PROFLO" W&O HALF KIT PFW0350- SCH40 WITH CHROME PLATED TRIM
- c1. 1-1/4" CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT
- c2. 1-1/2" CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT
- d1. "ZURN" Z8800-CR STANDARD STOP WITH FLEXIBLE CLOSET RISER.
- d2. "MCGUIRE" NO. ST09L 1/4 TURN LOOSE KEY ANGLE STOPS, WITH 3/8" O.D. BRAIDED STAINLESS STEEL SUPPLY RISERS (FIELD CUT TO LENGTH) AND WALL ESCUTCHEONS
- d3. "MCGUIRE" ANTI-MICROBIAL PROWRAP PIPE WRAP (INSTALL ON ALL EXPOSED WASTE AND SUPPLY PIPING, FITTINGS, AND VALVES)
- d4. "PROFLO" PFS260 F CHROME STRAIGHT SHOWER ROD WITH PFC70 HF DIECAST EXPANDED ROD HOLDER KIT
- d5. "FIAT" NO. 832-AA HOSE AND HOSE BRACKET.

BACKFLOW PREVENTER SCHEDULE

NO.	MAKE	MODEL	BFP SIZE	BFP MAX GPM	MAX PRESSURE LOSS (PSIG)	MAX WORKING PRESSURE (PSIG)	RATED GPM FLOW (PSIG)	SERVICE	REMARKS
BP-1	ZURN	375	3"	145	13	13	145	DOMESTIC WATER	ASSE 1013

- NOTES:
1. SEE FLOOR PLANS FOR LOCATIONS.
 2. R.P.B.P. = REDUCED PRESSURE BACKFLOW PREVENTER
 3. D.C.D.A. = DOUBLE CHECK DETECTOR ASSEMBLY
 4. D.C.V. = DOUBLE CHECK VALVE
 5. D.D.C.V. = DOUBLE DETECTOR CHECK VALVE
 6. R.P.B.P. TO BE FURNISHED WITH AIR GAP DEVICE AND DRAIN TO REMAIN FULL PORT SIZE. EXTEND DRAIN TO NEAREST FLOOR DRAIN.
 7. SEE SPECIFICATIONS AND PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL REQUIREMENTS.

PLUMBING EQUIPMENT SCHEDULE

MARK NO.	DESCRIPTION	MAKE / MODEL / SIZE	REMARKS
DWH-1/2	DOMESTIC WATER HEATER	AO SMITH BTH-199	100 GALLON CAPACITY GAS WATER HEATER WITH A RECOVERY CAPACITY OF 261 GPH AT A TEMPERATURE RISE OF 90 DEG. F. WITH AN INPUT OF 199,000 BTU. SET TEMPERATURE AT 120 DEG. F. WATER HEATER MANUFACTURER TO FURNISH TEMPERATURE AND PRESSURE RELIEF VALVE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. PROVIDE WITH UNIONS AND TEMPERATURE GAUGES AT WATER INLET AND OUTLET. VOLTAGE SHALL BE 120V/1 PHASE, 5.0 AMPS.
MX-1	DIGITAL MASTER MIXING VALVE	ARMSTRONG DRV50	DIGITAL THERMOSTATIC MIXING VALVE WITH INTEGRAL CHECK VALVES CAPABLE OF DELIVERING 133 GPM OF 120 DEGREE DOMESTIC HOT WATER AT A PRESSURE DROP OF 10 PSI.
EXT	DOMESTIC HOT WATER EXPANSION TANK	WATTS DETA-42	FIXED BLADDER TYPE PRECHARGED EXPANSION TANK. TANK TO HAVE AN ACCEPTANCE VOLUME OF 14.5 GALLONS @ 40 PSI AND A TOTAL STORAGE CAPACITY OF 22 GALLONS. TANK TO HAVE 1" INLET CONNECTION. TANK TO BE PRECHARGED TO 12 PSI.
ESP	ELEVATOR SUMP PUMP	LIBERTY PUMPS ELV-280	50 GPM PUMP AT 15 TDH. 1/2 HP 115/SINGLE PHASE. PROVIDE WITH 3-WIRE CORD PLUG - COORDINATE REQUIRED LENGTH PRIOR TO ORDERING, FLOAT OPERATED MECHANICAL SWITCH. PROVIDE WITH 24" DIAMETER X 36" DEEP FIBERGLASS BASIN. SEE SPECIFICATIONS AND DETAIL FOR ADDITIONAL INFORMATION. PROVIDE WITH UNIONS FOR QUICK REMOVAL.
RDHWP	DOMESTIC HOT WATER RECIRCULATION PUMP	TACO 0010	STAINLESS STEEL NSF CERTIFIED CARTRIDGE CIRCULATOR TO BE 5 GPM WITH 10 FT OF HEAD. MOTOR RPM=3250, MOTOR HP=1/8, 115V/1PH. CONNECTIONS-1". E.C. TO PROVIDE MOTOR DISCONNECT SWITCH AND STARTER. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. P.C. SHALL PROVIDE AND INSTALL AQUASTAT WITH TEMPERATURE SENSOR ON THIRD FLOOR TO CONTROL PUMP.

DRAINS AND CLEANOUTS SCHEDULE

NO.	DESCRIPTION	MAKE/MODEL/SIZE	REMARKS
FD-1	FLOOR DRAIN	ZURN NO. ZN415-VP SERIES	CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENINGS AND 6" DIA. NICKEL BRONZE VANDAL-PROOF STRAINER. PROVIDE WITH TRAP PRIMER CONNECTION OF 4" DEEP SEAL TRAP AS NOTED ON PLANS.
FD-2	FLOOR DRAIN	ZURN NO. ZN1900 SERIES	CAST IRON 12" SQUARE FLOOR SINK WITH 8" SUMP, ALUMINUM DOME STRAINER AND NICKEL BRONZE HINGED TOP. PROVIDE WITH TRAP PRIMER CONNECTION, ALUMINUM SEDIMENT BUCKET, AND 3/4 GRATE.
FWFCO	FLUSH WITH FLOOR CLEANOUT	ZURN NO. ZN1400-VP SERIES	CAST IRON FLOOR CLEANOUT WITH SPIGOT OUTLET FOR "NO-HUB" OR "TY-SEAL" CONNECTION. THREADED ADJUSTABLE HOUSING, FLANGED FERRULE WITH PLUG AND ROUND SECURED NICKEL BRONZE TOP.
FWWCO	FLUSH WITH WALL CLEANOUT	ZURN NO. Z1440-VP SERIES	CLEANOUT FERRULE WITH BRASS PLUG AND ROUND STAINLESS STEEL SECURED ACCESS COVER.

PLUMBING SYMBOL LEGEND

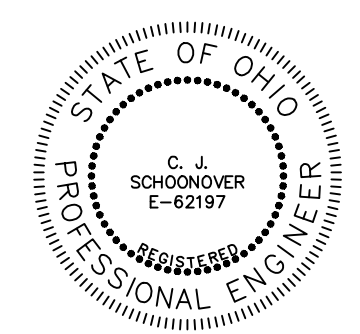
ABBREVIATION	SYMBOL	DESCRIPTION
US		SANITARY SEWER BELOW FLOOR OR GRADE
SAN		SANITARY SEWER ABOVE FLOOR
		SANITARY VENT
UST		STORM SEWER BELOW FLOOR OR GRADE
PD		PUMP DISCHARGE
DCW		DOMESTIC COLD WATER
DHW		DOMESTIC HOT WATER
RDHW		RECIRCULATED DOMESTIC HOT WATER
		SHOCK STOP IN HORIZONTAL
		GATE VALVE
		GAS COOK
		GLOBE VALVE
		BALL VALVE
		BALANCE VALVE (SEE SPECIFICATIONS)
		CHECK VALVE (SWING)
		PUMP DISCHARGE SILENT LIFT CHECK VALVE
		BUTTERFLY VALVE
		OS&Y GATE VALVE
		CONCENTRIC REDUCER/INCREASER
		STRAINER WITH BLOWDOWN
		UNION
		FLANGED UNION
		EXPANSION JOINT
		PIPE ANCHOR
		PIPE GUIDE
		PIPE SLEEVE (SEE SPECIFICATIONS FOR ADDIT. REQUIREMENTS)
		VIBRATION CONNECTION (SEE SPECIFICATIONS)
		PETE'S TEST PLUG
		MANUAL AIR VENT
		AUTOMATIC AIR VENT WITH BALL VALVE
BFP		DOUBLE CHECK BACKFLOW PREVENTER
RPBP		REDUCED PRESSURE BACKFLOW PREVENTER WITH AIR GAP DEVICE AND DRAIN
		COMPANION FLANGE
		CLEANOUT
		FLUSH WITH FLOOR CLEANOUT
		FLUSH WITH WALL CLEANOUT
F.P.S.C.		FROSTPROOF SILL COOK / WALL HYDRANT
		FAUCET OR HOSE BIBB
F.D.		SANITARY FLOOR DRAIN
A.F.D.		ACID FLOOR DRAIN
R.D.		ROOF DRAIN
A.D.		AREA DRAIN (STORM)
D.S.		DOWNSPOUT
R.L.		RAIN LEADER
		PRESSURE GAUGE WITH GAUGE COCK (WATER)
		PRESSURE GAUGE WITH BALL VALVE (WATER)
		PLUMBING FIXTURE (SEE SCHEDULE)
		PLUMBING EQUIPMENT (SEE SCHEDULE)
E.C.		ELECTRICAL CONTRACTOR
F.S.C.		FIRE SUPPRESSION CONTRACTOR
G.C.		GENERAL CONTRACTOR
H.C.		HVAC CONTRACTOR
P.C.		PLUMBING CONTRACTOR
K.E.C.		KITCHEN EQUIPMENT CONSULTANT
A.D.		ACCESS DOOR
A.F.F.		ABOVE FINISHED FLOOR
F.F.E.		FINISHED FLOOR ELEVATION
MFR.		MANUFACTURER
N.O.		NORMALLY OPEN
N.C.		NORMALLY CLOSED
TYP.		TYPICAL
		INDICATES TIE INTO EXISTING
		INDICATES REMOVE TO POINT FOR RECONNECTION
		INDICATES REMOVE TO POINT AND CAP

SHOCK ABSORBER SCHEDULE

NO.	DESCRIPTION	REMARKS
SHOCK ABSORBER	PPP	1/2", FIXTURE CAPACITY: 1-11 (PDI "A")
SHOCK ABSORBER	PPP	3/4", FIXTURE CAPACITY: 12-32 (PDI "B")
SHOCK ABSORBER	PPP	1", FIXTURE CAPACITY: 33-60 (PDI "C")
SHOCK ABSORBER	PPP	1-1/4", FIXTURE CAPACITY: 61-113 (PDI "D")

PLUMBING NEW WORK GENERAL NOTES

1. THE GENERAL NOTES LISTED HERE APPLY TO ALL PLUMBING DRAWINGS IN ADDITION TO ANY ADDITIONAL DRAWING NOTES ON THE INDIVIDUAL DRAWINGS.
2. SEE CODED NOTES ON INDIVIDUAL DRAWING SHEETS FOR SPECIFIC INSTRUCTIONAL NOTES.
3. FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
4. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES WHICH OCCURS BY HIS FAILURE TO LOCATE OR PRESERVE THE UNDERGROUND CONDITIONS.
5. IF DURING CONSTRUCTION OPERATIONS, THE PLUMBING CONTRACTOR ENCOUNTERS UTILITIES OTHER THAN THOSE LOCATIONS SHOWN IN THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND TAKE THE NECESSARY STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE.
6. COORDINATE WITH GENERAL TRADES WORK, HVAC WORK, FIRE PROTECTION WORK, ELECTRICAL WORK AND OTHER WORK.
7. IT IS RECOGNIZED THAT DRAWINGS MAY BE PLOTTED AT DIFFERENT SCALES, SUCH THAT PLOTTED DRAWINGS MAY VARY FROM ACTUAL OR INTENDED DIMENSIONS. THEREFORE, DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED. SBM TAKES NO RESPONSIBILITY FOR ERRORS REGARDING DISCREPANCIES FROM THE ORIGINAL DRAWINGS DRAWN AT THE PROPER SCALE AND THOSE DRAWINGS THAT HAVE BEEN PLOTTED.
8. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE AND SMOKE WALLS AND RATED STRUCTURES. SEE DETAILS AND SPECIFICATIONS FOR PIPE PENETRATION SEAL REQUIREMENTS.
9. THE PLUMBING DESIGN DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATION OF EQUIPMENT AND PIPING UNLESS DIMENSIONS ARE GIVEN OR OTHERWISE IMPLIED FOR CLEARANCES, ETC. PIPING AND PLUMBING EQUIPMENT ARE TO BE INSTALLED ALONG THE GENERAL PLANS SHOWN ON THE DRAWINGS, BUT KEEPING IN MIND ACTUAL BUILDING CONDITIONS WHICH MUST BE CONFORMED WITH IN THE ACTUAL WORK. CONTRACTORS IN THEIR BIDS ARE REQUIRED TO INCLUDE ALL LABOR AND MATERIALS AND OTHER RELATED WORK NECESSARY TO PROVIDE MINOR OFFSETS IN PLUMBING WORK AS REQUIRED TO AVOID CONFLICT WITH OTHER WORK ON THIS PROJECT OR AS REQUIRED IN ORDER TO OBTAIN MAXIMUM HEAD ROOM OR EQUIPMENT ACCESS IN SPACES.
10. THE PLUMBING CONTRACTOR IS TO COORDINATE ALL PIPING WITH OTHER TRADES PRIOR TO ROUTING PIPING AND SHALL MAKE OFFSETS AND ADJUST PIPE ROUTING AS REQUIRED TO HANDLE CONFLICTS IN FIELD. THE PLUMBING CONTRACTOR SHALL ALSO BE REQUIRED TO OFFSET VERTICAL SANITARY AND VENT LINES AROUND STRUCTURAL MEMBERS AS REQUIRED AND SHALL INCLUDE IN THEIR BASE BID THE ASSOCIATED COST FOR ADDITIONAL FITTINGS, PIPING, AND MAN HOURS TO ACCOMMODATE CONFLICTS.
11. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION AND ELEVATION OF PLUMBING FIXTURES.
12. ALL COLD WATER AND HOT WATER PIPING TO INDIVIDUAL SINKS AND INDIVIDUAL LAVATORIES TO BE 1/2", UNLESS OTHERWISE INDICATED.
13. ALL COLD WATER AND HOT WATER PIPING SERVING 3 OR LESS SINKS OR LAVS ARE TO BE 3/4" UNLESS NOTED OTHERWISE.
14. FINAL COLD WATER PIPING CONNECTIONS TO WATER CLOSETS TO BE 1/2".
15. UNLESS OTHERWISE NOTED SEE PLUMBING FIXTURE SCHEDULE FOR FIXTURE DRAIN, VENT, DCW AND DHW PIPE SIZES.
16. P.C. TO FURNISH WALL FLANGES AROUND ALL PIPING EXPOSED BELOW CEILING AND CASEWORK.
17. P.C. TO COORDINATE ALL SHOWER UNITS WITH G.C. TO ENSURE PROPER INSTALLATION, ROUGH-IN, AND CLEARANCE REQUIREMENTS PRIOR TO ORDERING AND INSTALLATION. COORDINATE ANY CHANGE IN SIZE OR CONFIGURATION WITH ARCHITECT.
18. P.C. TO COORDINATE ALL COUNTERTOP SINKS WITH CASEWORK TO ENSURE PROPER INSTALLATION AND CLEARANCE REQUIREMENTS PRIOR TO ORDERING AND INSTALLATION. COORDINATE ANY CHANGE IN SIZE OR CONFIGURATION WITH PROJECT ENGINEER AND ARCHITECT.
19. SEE PLUMBING ISOMETRICS FOR SANITARY PIPE SIZES NOT INDICATED ON FLOOR PLANS. 20. UNLESS OTHERWISE INDICATED, ALL PIPING TO RUN GENERALLY BELOW DUCTWORK FOR ACCESS TO VALVING. DO NOT OBSTRUCT EQUIPMENT OR ACCESS DOORS.
21. THE PLUMBING CONTRACTOR IS TO INSTALL HOUSEKEEPING PADS FOR ALL PLUMBING EQUIPMENT UNITS.
22. SEE PROJECT SPECIFICATIONS FOR CUTTING AND PATCHING RESPONSIBILITIES.
23. FINAL FLOOR DRAIN ELEVATIONS ARE TO BE SET BY THE PLUMBING CONTRACTOR. COORDINATE EXACT POSITIONING OF FLOOR DRAINS WITH HVAC CONTRACTOR TO SERVE HVAC EQUIPMENT AS INTENDED, AND TO AVOID TRIPPING HAZARDS WITH ABOVE FLOOR DRAIN PIPING.
24. PLUMBING FIXTURE NUMBERS ARE SHOWN ON WASTE PLANS AND REFERS TO PLUMBING FIXTURE SCHEDULE.
25. ACCESS PANELS ARE TO BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR IS TO COORDINATE LOCATION AND INSTALLATION OF VALVES, SHOCK STOPS, AND CLEANOUTS ABOVE ACCESS PANEL WITH G.C. AND ARCHITECTURAL DRAWINGS TO MINIMIZE SIZE OF PANELS.
26. DRAIN VALVES WITH HOSE ADAPTORS ARE TO BE INSTALLED AT THE BASE OF ALL DCW, DHW, AND RDHW RISERS.
27. EQUIPMENT CONNECTION ARRANGEMENTS, FLANGES, UNIONS, VALVING, ETC. ARE NOT TYPICALLY SHOWN ON PLAN VIEWS. REFER TO DETAILS AND FLOW DIAGRAMS FOR REQUIREMENTS. INSTALL ALL VALVES AND OTHER ITEMS REQUIRING OR FACILITATING MAINTENANCE IN ACCESSIBLE LOCATIONS, AND SO AS TO NOT OBSTRUCT MAINTENANCE ON EQUIPMENT SERVED.



C. J. SCHOMMER
E-62197
PROFESSIONAL ENGINEER
DATE 3/31/23

REVISIONS

- BULLETIN 01 - 07/17/2023
- BULLETIN 03 - 10/16/2023

PLBG NOTES, LEGENDS, SCHEDULES

GERMANTOWN CROSSING
DAYTON OHIO



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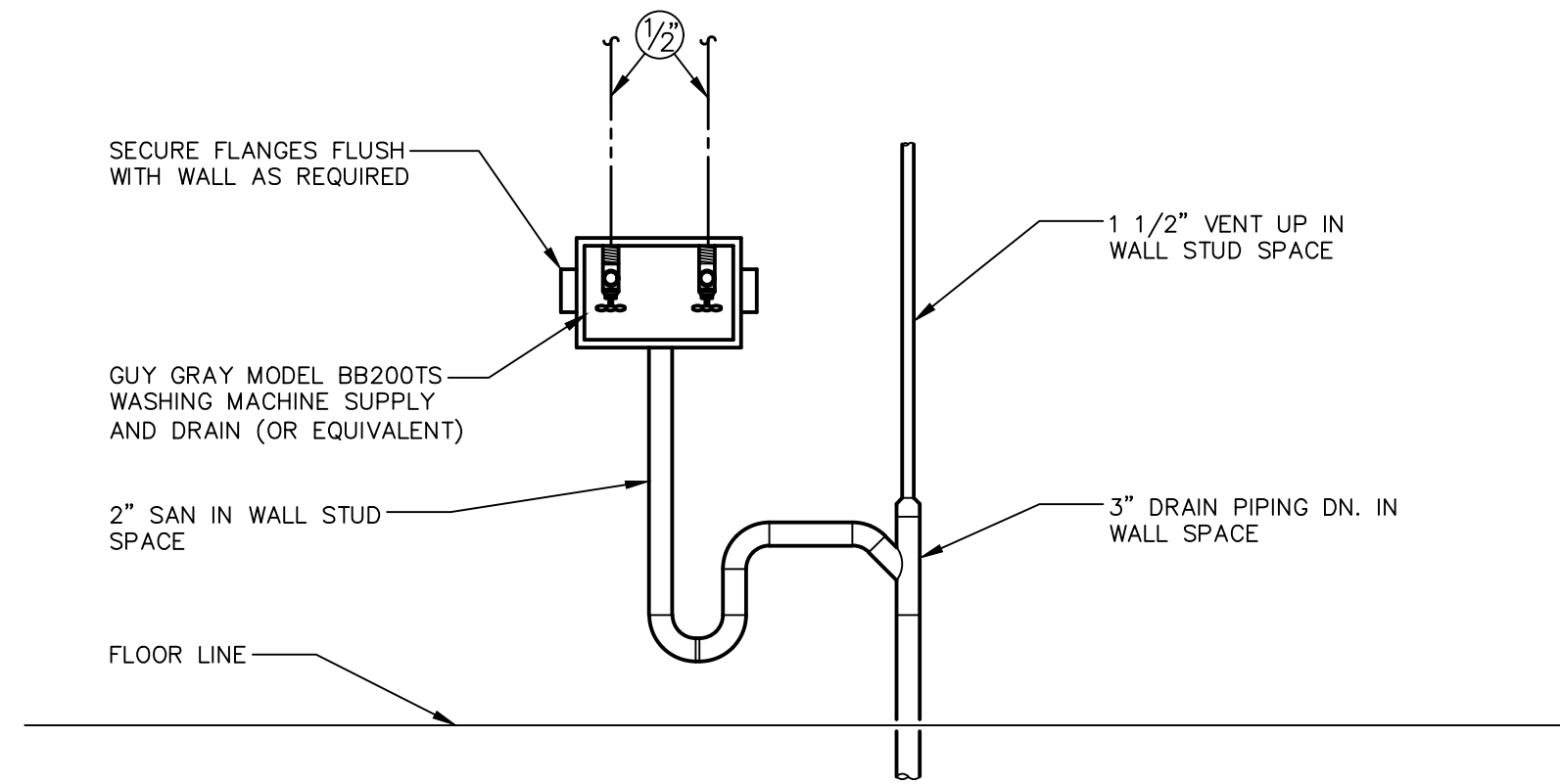
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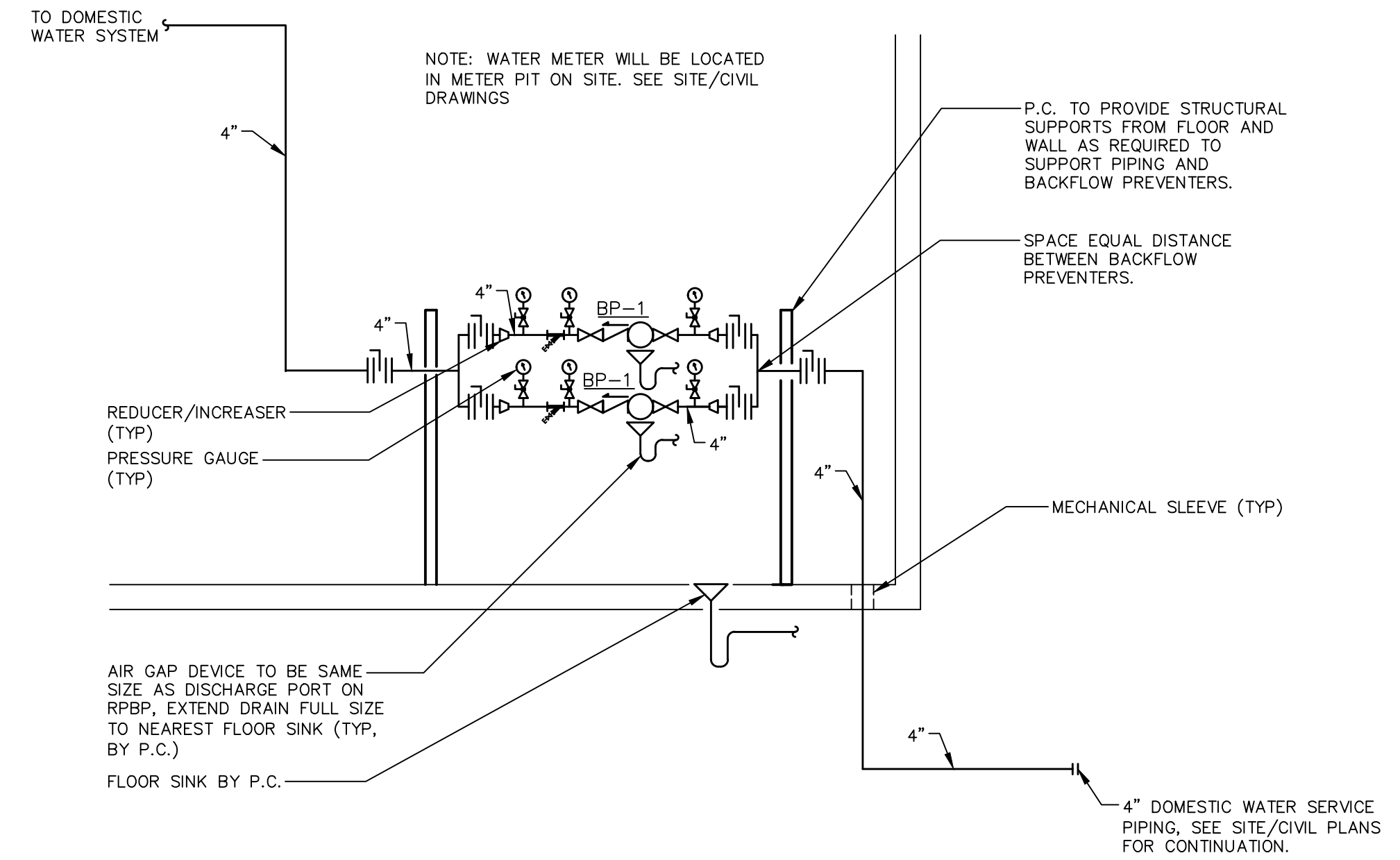
Chief Schoonover 3/31/23
SIGNATURE DATE

REVISIONS	
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▲	BULLETIN 02 - 09/19/2023
▲	BULLETIN 03 - 10/16/2023



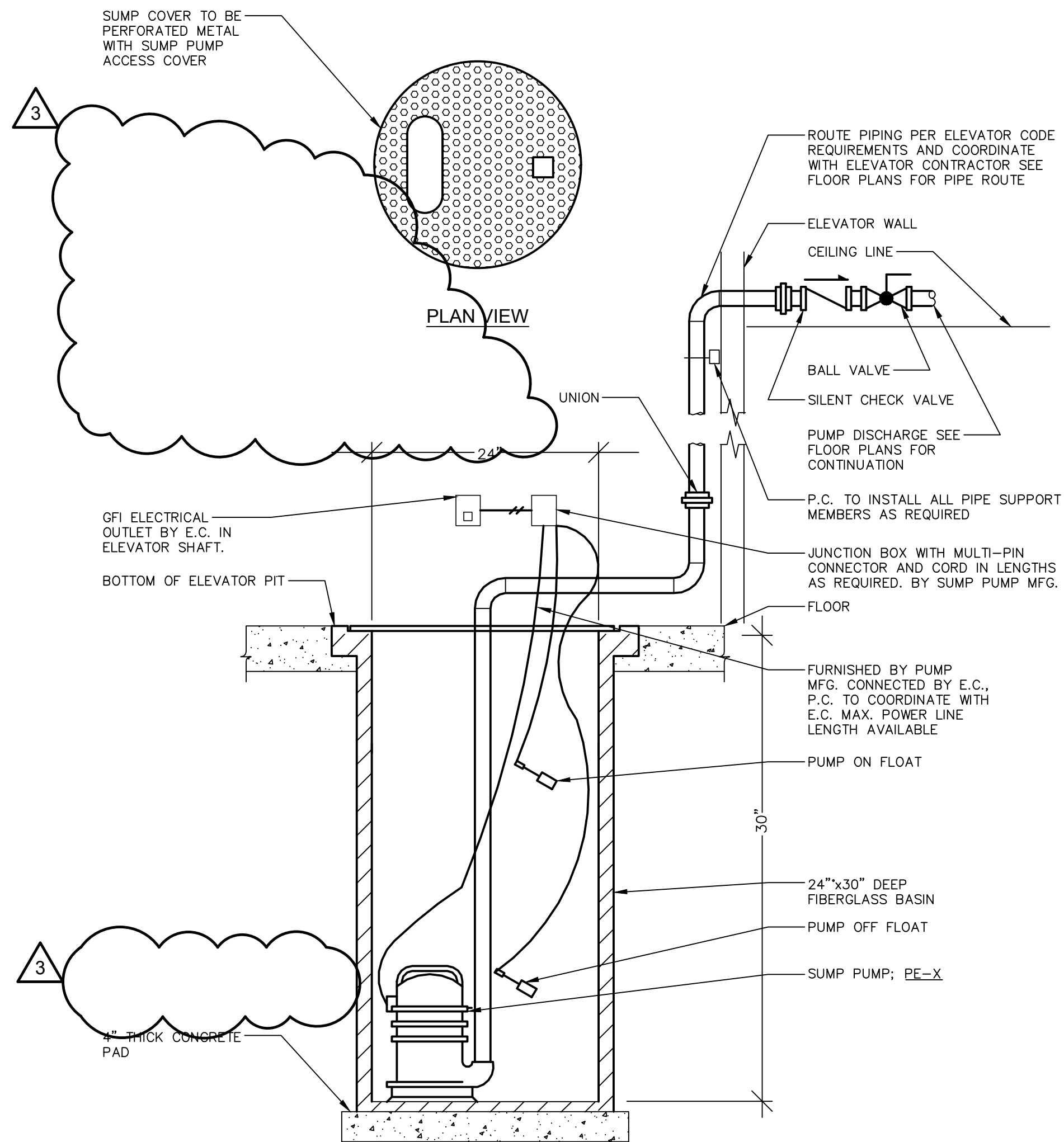
WASHING MACHINE CONNECTION

N.T.S.



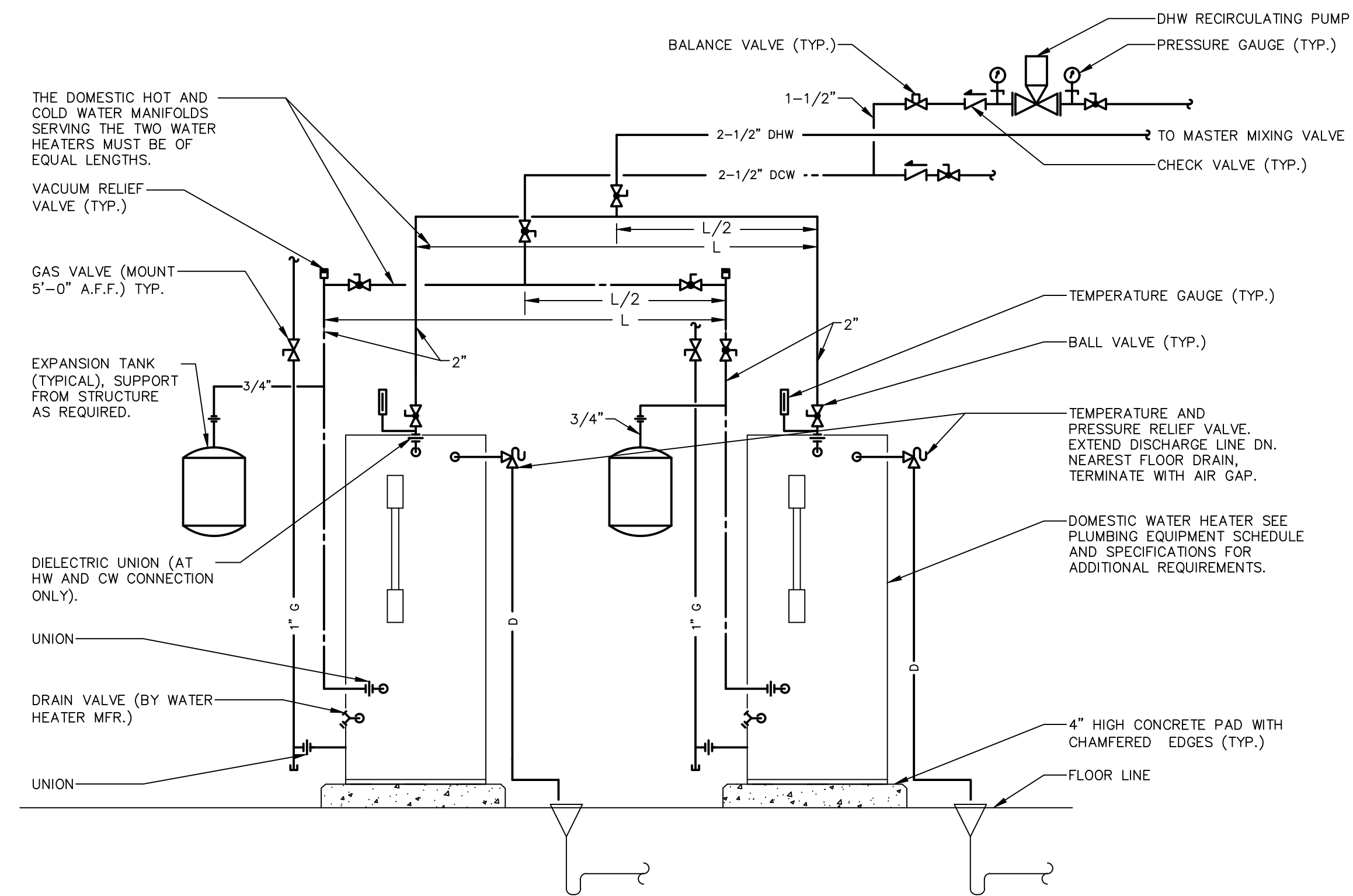
DOMESTIC WATER SERVICE DETAIL

N.T.S.



ELEVATOR SUMP PUMP

N.T.S.



DOMESTIC WATER HEATER SCHEMATIC

N.T.S.

- NOTES:**
1. THE DOMESTIC HOT AND COLD WATER MANIFOLDS SERVING THE TWO WATER HEATERS MUST BE OF EQUAL LENGTHS.
 2. SET DOMESTIC WATER HEATER TO 140 °F.
 3. SEE FLOOR PLANS FOR LOCATION AND ORIENTATION OF PIPING AND EQUIPMENT.
 4. FLUE AND SEALED COMBUSTION PIPING SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

PLUMBING DETAILS

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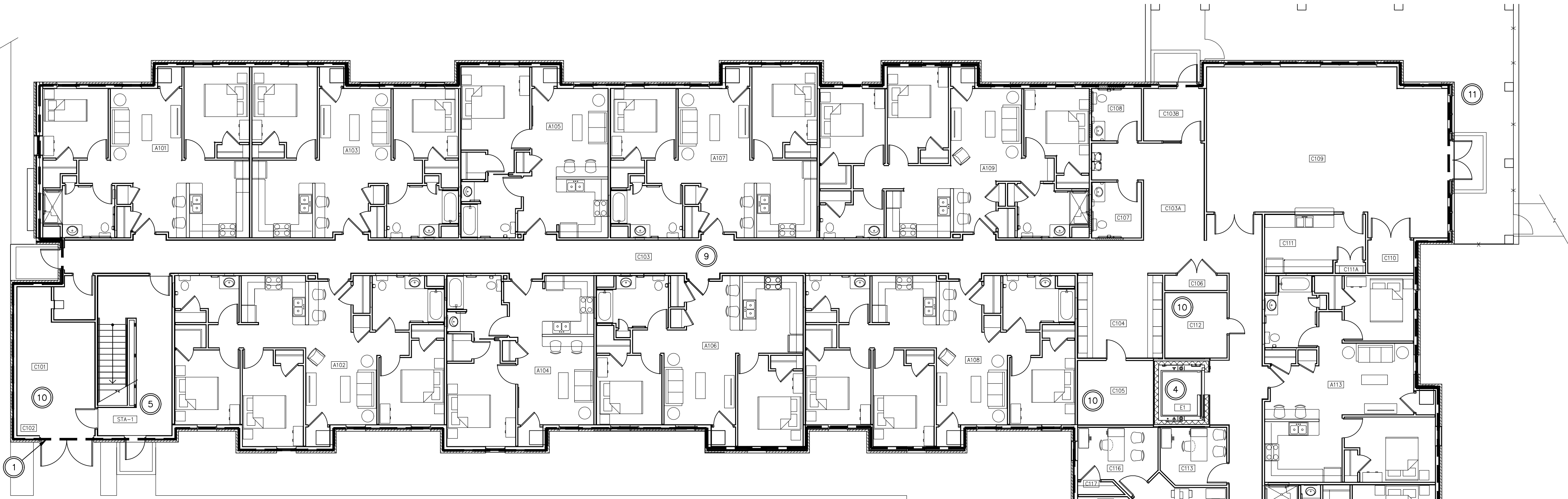
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PROJECT NUMBER

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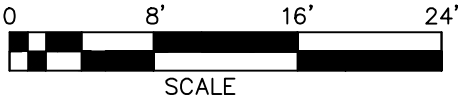


ROOM LEGEND			
A101	TWO BEDROOM MU	C108	TOILET
A102	THREE BEDROOM	C109	COMMUNITY ROOM
A103	TWO BEDROOM	C110	STORAGE
A104	ONE BEDROOM	C111	KITCHEN
A105	ONE BEDROOM	C111A	PANTRY
A106	TWO BEDROOM	C112	STORAGE
A107	TWO BEDROOM	C113	OFFICE
A108	THREE BEDROOM	C114	LOBBY
A109	THREE BEDROOM	C115	OFFICE
A112	TWO BEDROOM	C116	OFFICE
A113	TWO BEDROOM	C117	STORAGE
A114	TWO BEDROOM	C118	CONF.
A115	ONE BEDROOM MU	C119	STORAGE
A117	TWO BEDROOM	C120	VEST.
C101	TRASH	C121	WAITING
C102	TRASH COMPACTOR	C122	CORRIDOR
C103	CORRIDOR	C123	TRASH
C103A	CORRIDOR	C124	MECH / MAINTENANCE
C103B	VEST	C125	TRASH COMPACTOR
C104	MAIL	C126	MECH
C105	STORAGE	E1	ELEV.
C106	DATA	STA-1	STAIRS
C107	TOILET	STB-1	STAIR B

CODED NOTES	
1.	BUILDING INSIDE OF DASHED OUTLINE TO BE SERVED BY AUTOMATIC WET PIPE SPRINKLER SYSTEM. SYSTEM IS TO BE HYDRAULICALLY CALCULATED, DESIGNED, AND INSTALLED IN ACCORDANCE WITH N.F.P.A. 13 REQUIREMENTS. THE OHIO BUILDING CODE AND LOCAL AHJ REQUIREMENTS. COORDINATE USE OF SIDEWALL VS. CEILING MOUNTED SPRINKLER HEADS ALONG WITH LOCATIONS AND QUANTITIES WITH ARCHITECT.
2.	INSTALL GATE VALVE WITH TAMPER SWITCH, CHECK VALVE AND FLOW SWITCH AND EXTEND AUTOMATIC SPRINKLER LINE TO SERVE EAST SIDE OF THE BUILDING.
3.	EXTEND DRY SPRINKLER MAIN UP WITHIN CHASE AND CONTINUE TO ATTIC.
4.	FIRE SUPPRESSION DESIGNER OF RECORD SHALL COORDINATE WITH AHJ TO DETERMINE IF SPRINKLERS ARE REQUIRED WITHIN HOISTWAY. BASED ON VE CONVERSATIONS AND CONVERSION TO TRACTION ELEVATOR, IT IS ASSUMED THAT SPRINKLERS WITHIN THE HOISTWAY ARE NOT REQUIRED.
5.	AREA IN STAIRWELL TO BE SPRINKLED PER N.F.P.A 13.
6.	INSTALL GATE VALVE WITH TAMPER SWITCH, CHECK VALVE AND FLOW SWITCH AND EXTEND AUTOMATIC SPRINKLER LINE TO SERVE WEST SIDE OF THE BUILDING.
7.	4" FIRE SERVICE ENTRANCE. CONTINUE UP THROUGH FLOOR TO ZONE VALVES. REFER TO SERVICE ENTRANCE DETAIL FOR FURTHER REQUIREMENTS.
8.	4" DOMESTIC WATER SERVICE BY P.C.
9.	SPRINKLER MAIN SHALL BE ROUTED IN 1ST FLOOR CEILING SPACE. ROUTE BRANCHES INTO ROOMS AND CONTINUE RISERS UP WITHIN WALLS TO SERVE FLOORS ABOVE. RESIDENT UNITS SHALL BE SERVED WITH SIDEWALL HEADS. COORDINATE NUMBER OF HEADS AND RISERS TO SERVE SPACES AS REQUIRED.
10.	ORDINARY HAZARD CLASSIFICATION.
11.	CANOPY OVERHANG SHALL BE PROTECTED BY DRY SPRINKLER SYSTEM. EXTEND PIPING FROM DRY SYSTEM RISER IN MECHANICAL ROOM.
12.	FIRE SUPPRESSION CONTRACTOR SHALL DESIGN NEW DRY PIPE SPRINKLER SYSTEM TO SERVE THE CANOPY. EXTEND PIPING FROM ADJACENT FIRE MAIN AND PROVIDE TYCO MODEL DPV-1 DRY PIPE VALVE ASSEMBLY OR APPROVED EQUAL. INCLUDE BUTTERFLY WITH TAMPER, WATER FLOW ALARM, LOW AIR ALARM, MAIN DRAIN, AND PSI GAUGES. EXTEND DRAIN TO FLOOR DRAIN. INSTALL RELIABLE MODEL QMR2 RISER MOUNTED AIR COMPRESSOR OR APPROVED EQUAL. EXTEND COMPRESSED AIR PIPING TO DRY PIPE RISER VALVE. FOR SIZING PURPOSES, A 1/2 HP, 115V COMPRESSOR WAS UTILIZED. FINAL COMPRESSOR AND PIPE SIZING SHALL BE BY FIRE SUPPRESSION DESIGNER. COORDINATE FINAL SELECTION WITH E.C.

PLAN NOTES	
A.	INSTALL PIPING SUCH TO CONCEAL IN CEILING OR WALL SPACE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.
B.	AREAS WITH NO CEILINGS SUCH THAT THE AUTOMATIC SPRINKLER PIPING IS EXPOSED, THE AUTOMATIC SPRINKLER PIPING SHALL BE INSTALLED TO FOLLOW ALONG AND TIGHT TO THE STRUCTURE. REFER TO ARCHITECTURAL PLANS.
C.	OFFSET PIPING AROUND STRUCTURAL MEMBERS, LIGHTING, DUCTWORK, AND PLUMBING PIPING AS REQUIRED TO MAINTAIN FINAL ROOM DIMENSIONS. COORDINATE EXACT PIPE ROUTING WITH ALL TRADES.
D.	THE FIRE PROTECTION CONTRACTOR SHALL REMOVE OIL AND PREPARE AUTOMATIC SPRINKLER PIPING EXPOSED WITHIN ALL STAIRWAYS FOR PAINTING. THE FIRE PROTECTION CONTRACTOR SHALL THEN PLACE PLASTIC BAGS OVER SPRINKLER HEADS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING THE AUTOMATIC SPRINKLER PIPING AND THEN REMOVE PLASTIC BAGS FROM SPRINKLER HEADS. COORDINATE PIPE PREPARATION AND PAINTING REQUIREMENTS WITH ARCHITECT.
E.	SPRINKLER HEAD TYPES AT DESIGNATED AREAS: THE INSTALLATION OF SPRINKLER HEADS IN 2'X2' ACOUSTICAL TILE CEILINGS ARE TO BE CENTERED IN BOTH DIRECTIONS IN 2'X4' TILES AS NOTED BELOW. IN GYPSUM AND EXPOSED CEILINGS, INSTALL SPRINKLER HEADS SYMMETRICALLY IN A STRAIGHT LINE. MAINTAIN A SYMMETRICAL PATTERN FOR ALL CEILING TYPES FOR AN AESTHETICALLY PLEASING EFFECT. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
F.	ALL FINISHED CEILINGS UNLESS NOTED OTHERWISE (SUSPENDED LAY-IN AND GYPSUM): SPRINKLERS ARE TO BE SEMI RECESSED PENDANT TYPE. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
G.	EXPOSED CEILINGS: SPRINKLERS ARE TO BE UPRIGHT TYPE. PROVIDE SPRINKLER HEAD GUARDS IN ALL AREAS SUBJECTED TO DAMAGE SUCH AS MECHANICAL ROOMS, ELECTRICAL ROOMS, AND STORAGE ROOMS. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
H.	REFER TO ARCHITECTURAL DRAWINGS FOR CLARIFICATION TO OPEN SPACES. PIPING CAN NOT EXTEND THROUGH THE MIDDLE OF OPEN SPACES. PIPING IS TO BE INSTALLED TIGHT TO STRUCTURE.
I.	DO NOT INSTALL AUTOMATIC SPRINKLER PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT OR PANELS. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR PRIOR TO CONSTRUCTION.

NEW WORK - FIRST FLOOR PLAN - FIRE SUPPRESSION



FIRST FLOOR PLAN - FIRE SUPP.
GERMANTOWN CROSSING
DAYTON OHIO

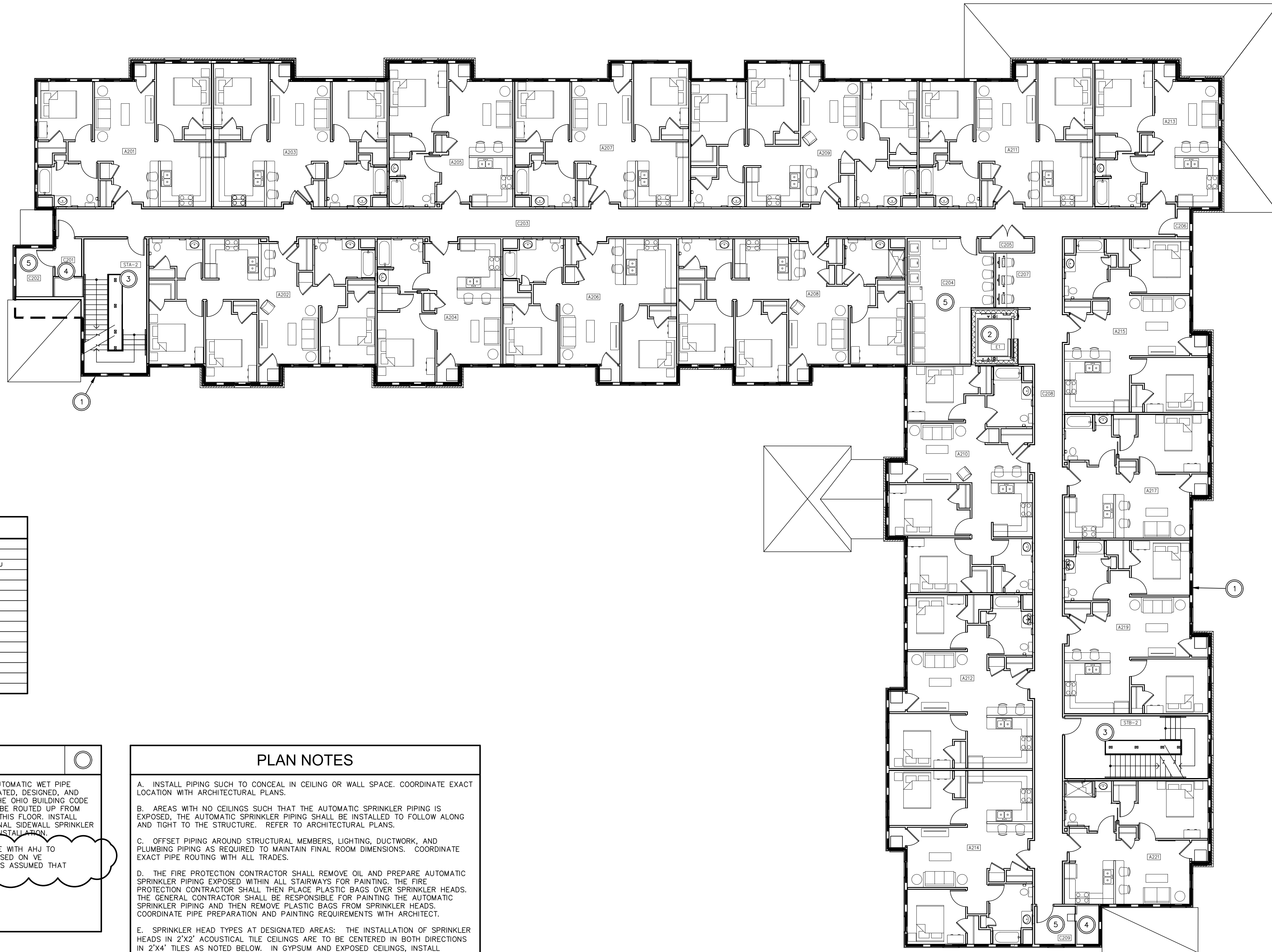
STATE OF OHIO
C. J. SCHOONOVER
E-62197
PROFESSIONAL ENGINEER
Chief Schwabenc 3/31/23
SIGNATURE DATE

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82A21
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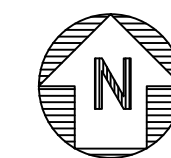


ROOM LEGEND			
A201	TWO BEDROOM	A217	ONE BEDROOM
A202	THREE BEDROOM	A219	TWO BEDROOM
A203	TWO BEDROOM	A221	ONE BEDROOM MU
A204	ONE BEDROOM	C201	TRASH
A205	ONE BEDROOM	C202	STORAGE
A206	TWO BEDROOM	C203	CORRIDOR
A207	TWO BEDROOM	C204	LAUNDRY
A208	THREE BEDROOM MU	C205	DATA
A209	THREE BEDROOM	C206	STORAGE
A210	THREE BEDROOM	C207	COMPUTERS
A211	TWO BEDROOM	C208	CORRIDOR
A212	TWO BEDROOM	C209	TRASH
A213	ONE BEDROOM	E1	ELEV.
A214	TWO BEDROOM	STA-2	STAIR A
A215	TWO BEDROOM 5&H	STB-2	STAIR B

CODED NOTES	
1	BUILDING INSIDE OF DASHED OUTLINE TO BE SERVED BY AUTOMATIC WET PIPE SPRINKLER SYSTEM. SYSTEM IS TO BE HYDRAULICALLY CALCULATED, DESIGNED, AND INSTALLED IN ACCORDANCE WITH N.F.P.A. 13 REQUIREMENTS, THE OHIO BUILDING CODE AND LOCAL AHJ REQUIREMENTS. FIRE SUPPRESSION PIPING TO BE ROUTED UP FROM FIRST FLOOR MAINS BELOW UP WITHIN STUD WALLS TO SERVE THIS FLOOR. INSTALL SIDEWALL SPRINKLER HEADS TO SERVE ROOMS. COORDINATE FINAL SIDEWALL SPRINKLER HEAD LOCATIONS AND QUANTITIES WITH ARCHITECT PRIOR TO INSTALLATION.
2	FIRE SUPPRESSION DESIGNER OF RECORD SHALL COORDINATE WITH AHJ TO DETERMINE IF SPRINKLERS ARE REQUIRED WITHIN HOISTWAY. BASED ON VE CONVERSATIONS AND CONVERSION TO TRACTION ELEVATOR, IT IS ASSUMED THAT SPRINKLERS WITHIN THE HOISTWAY ARE NOT REQUIRED.
3	AREA IN STAIRWELL TO BE SPRINKLED PER N.F.P.A 13.
4	PROTECT TRASH CHUTE IN ACCORDANCE WITH NFPA 13.
5	ORDINARY HAZARD CLASSIFICATION.

PLAN NOTES	
A.	INSTALL PIPING SUCH TO CONCEAL IN CEILING OR WALL SPACE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.
B.	AREAS WITH NO CEILINGS SUCH THAT THE AUTOMATIC SPRINKLER PIPING IS EXPOSED, THE AUTOMATIC SPRINKLER PIPING SHALL BE INSTALLED TO FOLLOW ALONG AND TIGHT TO THE STRUCTURE. REFER TO ARCHITECTURAL PLANS.
C.	OFFSET PIPING AROUND STRUCTURAL MEMBERS, LIGHTING, DUCTWORK, AND PLUMBING PIPING AS REQUIRED TO MAINTAIN FINAL ROOM DIMENSIONS. COORDINATE EXACT PIPE ROUTING WITH ALL TRADES.
D.	THE FIRE PROTECTION CONTRACTOR SHALL REMOVE OIL AND PREPARE AUTOMATIC SPRINKLER PIPING EXPOSED WITHIN ALL STAIRWAYS FOR PAINTING. THE FIRE PROTECTION CONTRACTOR SHALL THEN PLACE PLASTIC BAGS OVER SPRINKLER HEADS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING THE AUTOMATIC SPRINKLER PIPING AND THEN REMOVE PLASTIC BAGS FROM SPRINKLER HEADS. COORDINATE PIPE PREPARATION AND PAINTING REQUIREMENTS WITH ARCHITECT.
E.	SPRINKLER HEAD TYPES AT DESIGNATED AREAS: THE INSTALLATION OF SPRINKLER HEADS IN 2'x2' ACOUSTICAL TILE CEILINGS ARE TO BE CENTERED IN BOTH DIRECTIONS IN 2'x4" TILES AS NOTED BELOW. IN GYPSUM AND EXPOSED CEILINGS, INSTALL SPRINKLER HEADS SYMMETRICALLY IN A STRAIGHT LINE. MAINTAIN A SYMMETRICAL PATTERN FOR ALL CEILING TYPES FOR AN AESTHETICALLY PLEASING EFFECT. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
F.	ALL FINISHED CEILINGS UNLESS NOTED OTHERWISE (SUSPENDED LAY-IN AND GYPSUM): SPRINKLERS ARE TO BE SEMI RECESSED PENDANT TYPE. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
G.	EXPOSED CEILINGS: SPRINKLERS ARE TO BE UPRIGHT TYPE. PROVIDE SPRINKLER HEAD GUARDS IN ALL AREAS SUBJECT TO DAMAGE SUCH AS MECHANICAL ROOMS, ELECTRICAL ROOMS, AND STORAGE ROOMS. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
H.	REFER TO ARCHITECTURAL DRAWINGS FOR CLARIFICATION TO OPEN SPACES. PIPING CAN NOT EXTEND THROUGH THE MIDDLE OF OPEN SPACES. PIPING IS TO BE INSTALLED TIGHT TO STRUCTURE.
I.	DO NOT INSTALL AUTOMATIC SPRINKLER PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT OR PANELS. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR PRIOR TO CONSTRUCTION.

NEW WORK - SECOND FLOOR PLAN - FIRE SUPPRESSION



Signature: *C. J. Schoonover* / 3/31/23
DATE

REVISIONS	
▲	BULLETIN 01 - 07/17/2023
▲	BULLETIN 03 - 10/16/2023

SECOND FLOOR PLAN - FIRE SUPP.

GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

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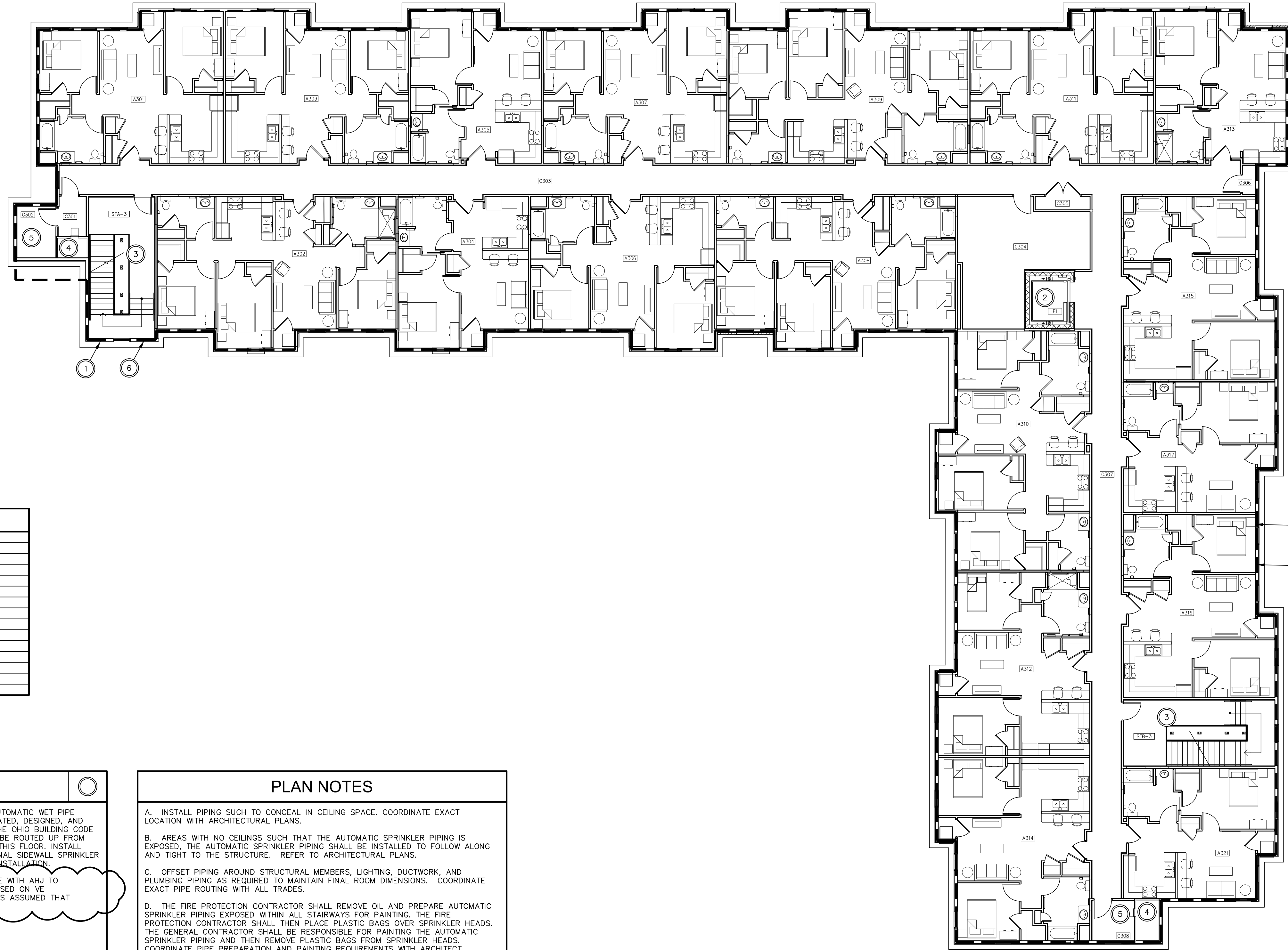
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82A21

PROJECT NUMBER

FS102

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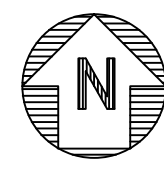
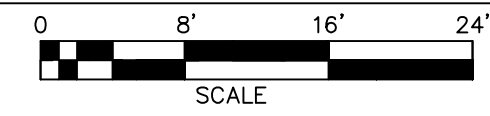


ROOM LEGEND			
A301	TWO BEDROOM	A317	ONE BEDROOM
A302	THREE BEDROOM MU	A319	TWO BEDROOM
A303	TWO BEDROOM	A321	ONE BEDROOM
A304	ONE BEDROOM	C301	TRASH
A305	ONE BEDROOM	C302	STORAGE
A306	TWO BEDROOM	C303	CORRIDOR
A307	TWO BEDROOM	C304	FITNESS
A308	THREE BEDROOM	C305	DATA
A309	THREE BEDROOM	C306	STORAGE
A310	THREE BEDROOM	C307	CORRIDOR
A311	TWO BEDROOM	C308	TRASH
A312	TWO BEDROOM MU	E1	ELEV.
A313	ONE BEDROOM MU	STA-3	STAIR A
A314	TWO BEDROOM	STB-3	STAIR B
A315	TWO BEDROOM		

CODED NOTES	
1	BUILDING INSIDE OF DASHED OUTLINE TO BE SERVED BY AUTOMATIC WET PIPE SPRINKLER SYSTEM. SYSTEM IS TO BE HYDRAULICALLY CALCULATED, DESIGNED, AND INSTALLED IN ACCORDANCE WITH N.F.P.A. 13 REQUIREMENTS, THE OHIO BUILDING CODE AND LOCAL AHJ REQUIREMENTS. FIRE SUPPRESSION PIPING TO BE ROUTED UP FROM FIRST FLOOR MAINS BELOW UP WITHIN STUD WALLS TO SERVE THIS FLOOR. INSTALL SIDEWALL SPRINKLER HEADS TO SERVE ROOMS. COORDINATE FINAL SIDEWALL SPRINKLER HEAD LOCATIONS AND QUANTITIES WITH ARCHITECT PRIOR TO INSTALLATION.
2	FIRE SUPPRESSION DESIGNER OF RECORD SHALL COORDINATE WITH AHJ TO DETERMINE IF SPRINKLERS ARE REQUIRED WITHIN HOISTWAY, BASED ON VE CONVERSATIONS AND CONVERSION TO TRACTION ELEVATOR, IT IS ASSUMED THAT SPRINKLERS WITHIN THE HOISTWAY ARE NOT REQUIRED.
3	AREA IN STAIRWELL TO BE SPRINKLED PER N.F.P.A 13.
4	PROTECT TRASH CHUTE IN ACCORDANCE WITH NFPA 13.
5	ORDINARY HAZARD CLASSIFICATION.
6	ATTIC SPACE SHALL BE PROTECTED USING A DRY SPRINKLER IN ACCORDANCE WITH NFPA 13.

PLAN NOTES	
A.	INSTALL PIPING SUCH TO CONCEAL IN CEILING SPACE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.
B.	AREAS WITH NO CEILINGS SUCH THAT THE AUTOMATIC SPRINKLER PIPING IS EXPOSED, THE AUTOMATIC SPRINKLER PIPING SHALL BE INSTALLED TO FOLLOW ALONG AND TIGHT TO THE STRUCTURE. REFER TO ARCHITECTURAL PLANS.
C.	OFFSET PIPING AROUND STRUCTURAL MEMBERS, LIGHTING, DUCTWORK, AND PLUMBING PIPING AS REQUIRED TO MAINTAIN FINAL ROOM DIMENSIONS. COORDINATE EXACT PIPE ROUTING WITH ALL TRADES.
D.	THE FIRE PROTECTION CONTRACTOR SHALL REMOVE OIL AND PREPARE AUTOMATIC SPRINKLER PIPING EXPOSED WITHIN ALL STAIRWAYS FOR PAINTING. THE FIRE PROTECTION CONTRACTOR SHALL THEN PLACE PLASTIC BAGS OVER SPRINKLER HEADS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING THE AUTOMATIC SPRINKLER PIPING AND THEN REMOVE PLASTIC BAGS FROM SPRINKLER HEADS. COORDINATE PIPE PREPARATION AND PAINTING REQUIREMENTS WITH ARCHITECT.
E.	SPRINKLER HEAD TYPES AT DESIGNATED AREAS: THE INSTALLATION OF SPRINKLER HEADS IN 2'X2' ACOUSTICAL TILE CEILINGS ARE TO BE CENTERED IN BOTH DIRECTIONS IN 2'X4' TILES AS NOTED BELOW. IN GYPSUM AND EXPOSED CEILINGS, INSTALL SPRINKLER HEADS SYMMETRICALLY IN A STRAIGHT LINE. MAINTAIN A SYMMETRICAL PATTERN FOR ALL CEILING TYPES FOR AN AESTHETICALLY PLEASING EFFECT. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
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H.	REFER TO ARCHITECTURAL DRAWINGS FOR CLARIFICATION TO OPEN SPACES. PIPING CAN NOT EXTEND THROUGH THE MIDDLE OF OPEN SPACES. PIPING IS TO BE INSTALLED TIGHT TO STRUCTURE.
I.	DO NOT INSTALL AUTOMATIC SPRINKLER PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT OR PANELS. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR PRIOR TO CONSTRUCTION.

NEW WORK - THIRD FLOOR PLAN - FIRE SUPPRESSION



STATE OF OHIO
C. J. SCHONOVER
E-62197
REGISTERED PROFESSIONAL ENGINEER
Chief Schommer 10/31/23
SIGNATURE DATE

REVISIONS	
▲	BULLETIN 01 - 07/17/2023
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THIRD FLOOR PLAN - FIRE SUPP.
GERMANTOWN CROSSING
DAYTON OHIO



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FS103
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STATE OF OHIO
 C. J. SCHONOVER
 E-62197
 PROFESSIONAL ENGINEER
 Chief Schwabenc 3/31/23
 SIGNATURE DATE

REVISIONS

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FIRST FLOOR PLAN - HVAC
 GERMANTOWN CROSSING
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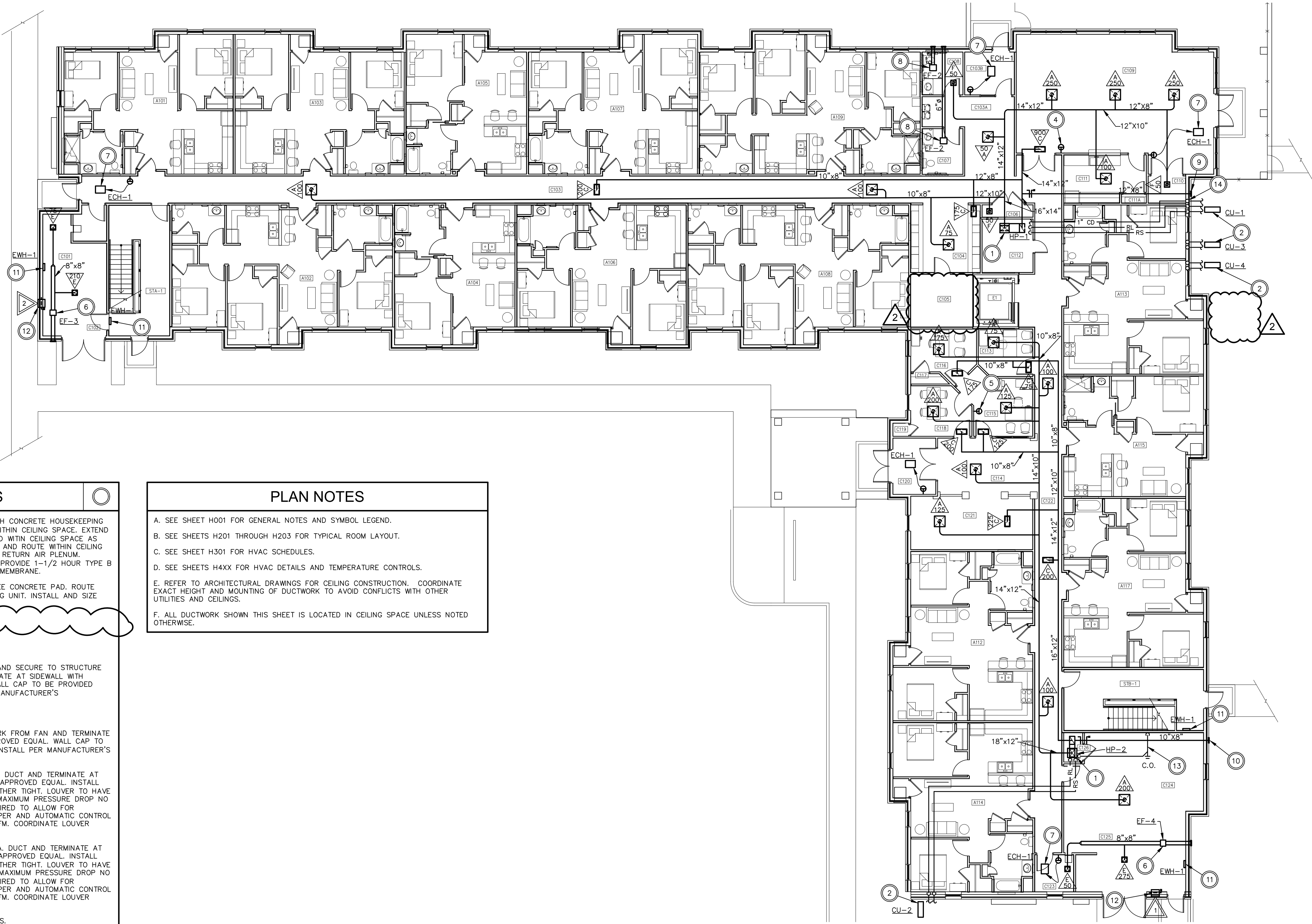
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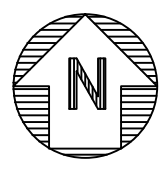
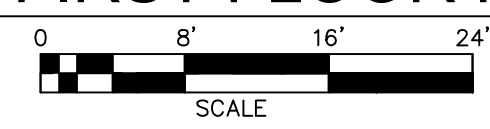
H101
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ROOM LEGEND

A101	TWO BEDROOM MU	C108	TOILET
A102	THREE BEDROOM	C109	COMMUNITY ROOM
A103	TWO BEDROOM	C110	STORAGE
A104	ONE BEDROOM	C111	KITCHEN
A105	ONE BEDROOM	C111A	PANTRY
A106	TWO BEDROOM	C112	STORAGE
A107	TWO BEDROOM	C113	OFFICE
A108	THREE BEDROOM	C114	LOBBY
A109	THREE BEDROOM	C115	OFFICE
A112	TWO BEDROOM	C116	OFFICE
A113	TWO BEDROOM	C117	STORAGE
A114	TWO BEDROOM	C118	CONF.
A115	ONE BEDROOM MU	C119	STORAGE
A117	TWO BEDROOM	C120	VEST.
C101	TRASH	C121	WAITING
C102	TRASH COMPACTOR	C122	CORRIDOR
C103	CORRIDOR	C123	TRASH
C103A	CORRIDOR	C124	MECH / MAINTENANCE
C103B	VEST	C125	TRASH COMPACTOR
C104	MAIL	C126	MECH
C105	STORAGE	E1	ELEV.
C106	DATA	STA-1	STAIRS
C107	TOILET	STB-1	STAIR B



NEW WORK - FIRST FLOOR PLAN - HVAC

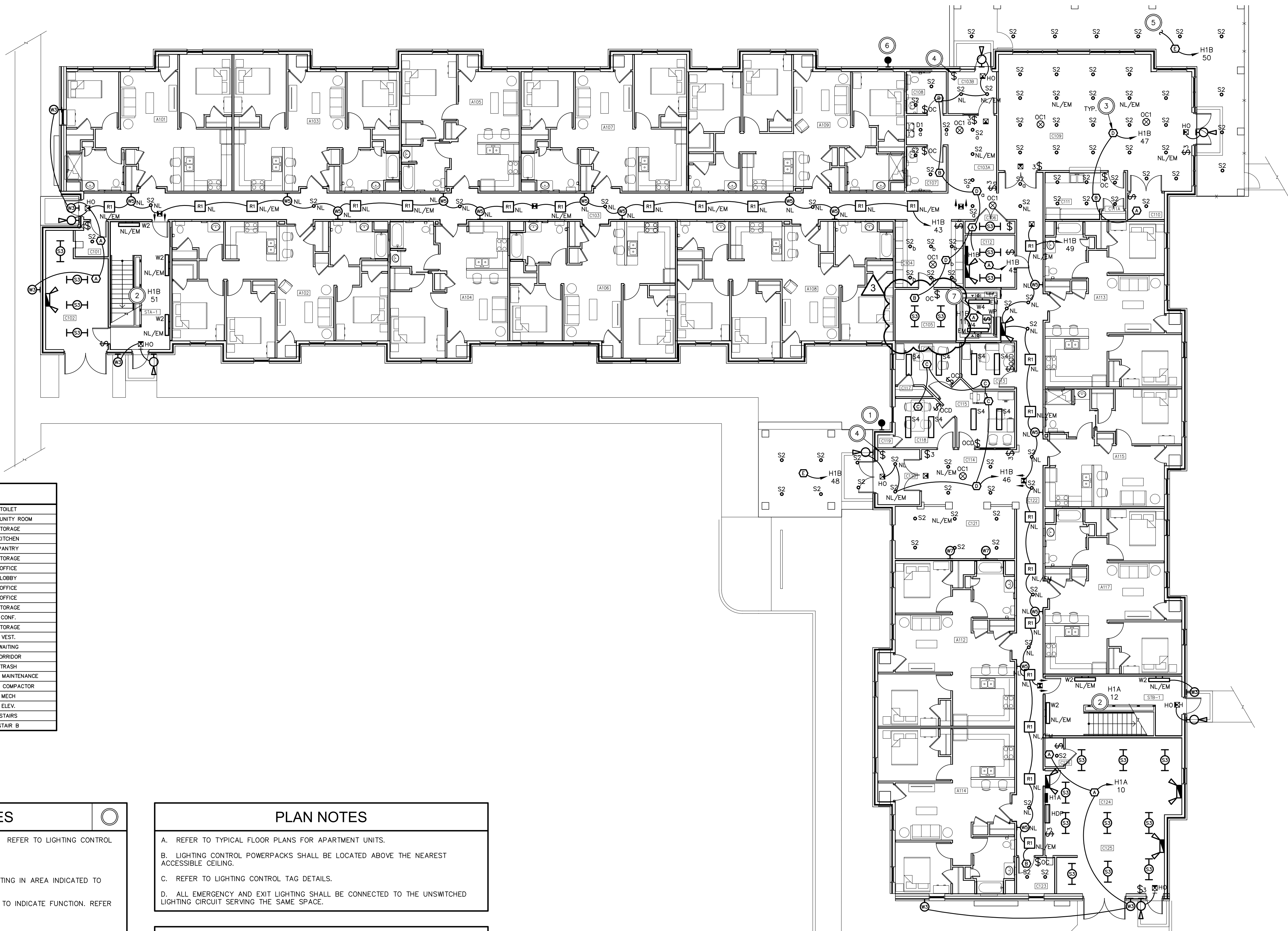


CODED NOTES

- VERTICAL AIR SOURCE HEAT PUMP. MOUNT ON 4" HIGH CONCRETE HOUSEKEEPING PAD. EXTEND RL/RS PIPING UP FROM UNIT AND ROUTE WITHIN CEILING SPACE. EXTEND 1" CONDENSATE DRAIN FROM UNIT AND ROUTE CONCEALED WITHIN CEILING SPACE AS SHOWN. EXTEND S.A. AND R.A. DUCTWORK UP FROM UNIT AND ROUTE WITHIN CEILING SPACE AS SHOWN. UNIT TO BE MOUNTED ON FIELD BUILT RETURN AIR PLENUM. REINFORCE PLENUM TO CARRY FULL HEAT PUMP WEIGHT. PROVIDE 1-1/2 HOUR TYPE B FIRE DAMPERS WHERE S.A. AND R.A. PENETRATE CEILING MEMBRANE.
- AIR COOLED CONDENSING UNIT. MOUNT ON FROST FREE CONCRETE PAD. ROUTE RL/RS PIPING DOWN IN WALL AND EXTEND TO CONDENSING UNIT. INSTALL AND SIZE PIPING BASED ON MANUFACTURER'S RECOMMENDATIONS.
- NOT USED.
- THERMOSTAT SERVING HP-1.
- THERMOSTAT SERVING HP-2.
- INLINE EXHAUST FAN. MOUNT WITHIN CEILING SPACE AND SECURE TO STRUCTURE ABOVE. EXTEND 8"x8" DUCTWORK FROM FAN AND TERMINATE AT SIDEWALL WITH GREENHECK WC-8X8 WALL CAP OR APPROVED EQUAL. WALL CAP TO BE PROVIDED WITH INTEGRAL DAMPER AND BIRDSCREEN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SEAL WEATHER TIGHT.
- ELECTRIC CEILING HEATER.
- CEILING MOUNTED EXHAUST FAN. EXTEND 6" DUCTWORK FROM FAN AND TERMINATE AT SIDEWALL WITH GREENHECK WC-6 WALL CAP OR APPROVED EQUAL. WALL CAP TO BE PROVIDED WITH INTEGRAL DAMPER AND BIRDSCREEN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SEAL WEATHER TIGHT.
- EXTEND 12"x8" O.A. DUCTWORK FROM HEAT PUMP R.A. DUCT AND TERMINATE AT SIDEWALL WITH GREENHECK ESD-635-20X20 LOUVER OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SEAL WEATHER TIGHT. LOUVER TO HAVE A FREE AREA OF NO LESS THAN 1.1 SQUARE FEET AND MAXIMUM PRESSURE DROP NO GREATER THAN 0.03"WC. TRANSITION DUCTWORK AS REQUIRED TO ALLOW FOR CONNECTION TO LOUVER. INSTALL MANUAL BALANCE DAMPER AND AUTOMATIC CONTROL DAMPER WITHIN O.A. DUCTWORK AND BALANCE TO 405 CFM. COORDINATE LOUVER FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING.
- EXTEND 10"x8" O.A. DUCTWORK FROM HEAT PUMP R.A. DUCT AND TERMINATE AT SIDEWALL WITH GREENHECK ESD-635-16X16 LOUVER OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SEAL WEATHER TIGHT. LOUVER TO HAVE A FREE AREA OF NO LESS THAN 0.6 SQUARE FEET AND MAXIMUM PRESSURE DROP NO GREATER THAN 0.03"WC. TRANSITION DUCTWORK AS REQUIRED TO ALLOW FOR CONNECTION TO LOUVER. INSTALL MANUAL BALANCE DAMPER AND AUTOMATIC CONTROL DAMPER WITHIN O.A. DUCTWORK AND BALANCE TO 240 CFM. COORDINATE LOUVER FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING.
- ELECTRIC WALL HEATER, SURFACE MOUNT. SEE DETAILS.
- WALL MOUNTED LOUVER WITH CONTROL DAMPER. INSTALL 36" A.F.F.. T.C.C. TO INTERLOCK DAMPER OPERATION WITH CORRESPONDING EXHAUST FAN OPERATION. DAMPER SHALL FAIL TO NORMALLY CLOSED POSITION. SEAL AROUND LOUVER PENETRATION WEATHER TIGHT.
- EXTEND 1" CONDENSATE DRAIN PIPING UP FROM HEAT PUMP AND ROUTE WITHIN CEILING SPACE AS SHOWN. DROP PIPING ALONG WALL AND TERMINATE ABOVE FLOOR DRAIN TO AVOID TRIP HAZARD.
- 1-1/4" CONDENSATE DRAIN PIPE FROM FLOORS ABOVE. TEE DRAIN STACK FROM FLOORS ABOVE INTO 1" CONDENSATE DRAIN FROM HP-1 AND TRANSITION TO 1-1/4". EXTEND CONDENSATE PIPING THROUGH EXTERIOR WALL TO OUTDOORS. ANGLE DRAIN PIPE DOWNWARD TO DRAIN ONTO EXTERIOR LANDSCAPING. SEAL CONDENSATE DRAIN WALL PENETRATIONS WEATHER TIGHT.

PLAN NOTES

- SEE SHEET H001 FOR GENERAL NOTES AND SYMBOL LEGEND.
- SEE SHEETS H201 THROUGH H203 FOR TYPICAL ROOM LAYOUT.
- SEE SHEET H301 FOR HVAC SCHEDULES.
- SEE SHEETS H4XX FOR HVAC DETAILS AND TEMPERATURE CONTROLS.
- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING CONSTRUCTION. COORDINATE EXACT HEIGHT AND MOUNTING OF DUCTWORK TO AVOID CONFLICTS WITH OTHER UTILITIES AND CEILINGS.
- ALL DUCTWORK SHOWN THIS SHEET IS LOCATED IN CEILING SPACE UNLESS NOTED OTHERWISE.



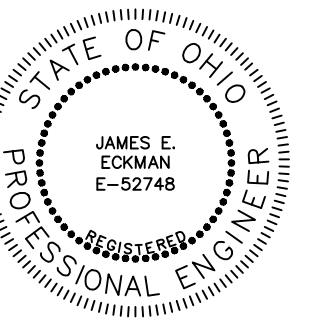
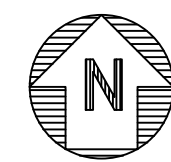
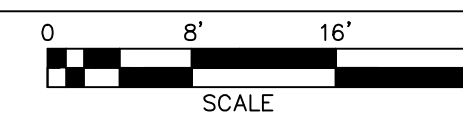
ROOM LEGEND			
A101	TWO BEDROOM MU	C108	TOILET
A102	THREE BEDROOM	C109	COMMUNITY ROOM
A103	TWO BEDROOM	C110	STORAGE
A104	ONE BEDROOM	C111	KITCHEN
A105	ONE BEDROOM	C111A	PANTRY
A106	TWO BEDROOM	C112	STORAGE
A107	TWO BEDROOM	C113	OFFICE
A108	THREE BEDROOM	C114	LOBBY
A109	THREE BEDROOM	C115	OFFICE
A112	TWO BEDROOM	C116	OFFICE
A113	TWO BEDROOM	C117	STORAGE
A114	TWO BEDROOM	C118	CONF.
A115	ONE BEDROOM MU	C119	STORAGE
A117	TWO BEDROOM	C120	VEST.
C101	TRASH	C121	WAITING
C102	TRASH COMPACTOR	C122	CORRIDOR
C103	CORRIDOR	C123	TRASH
C103A	CORRIDOR	C124	MECH / MAINTENANCE
C103B	VEST	C125	TRASH COMPACTOR
C104	MAIL	C126	MECH
C105	STORAGE	E1	ELEV.
C106	DATA	STA-1	STAIRS
C107	TOILET	STB-1	STAIR B

CODED NOTES	
1.	PHOTOCELL FOR WEST EXTERIOR CANOPY LIGHTING. REFER TO LIGHTING CONTROL TAG "E".
2.	LIGHTING CIRCUIT FOR ALL FIXTURES IN STAIRWELL.
3.	LIGHTING CONTROL TAG (TYP). CONNECT ALL LIGHTING IN AREA INDICATED TO CIRCUIT SHOWN.
4.	OVERRIDE SWITCH FOR EXTERIOR LIGHTING. LABEL TO INDICATE FUNCTION. REFER TO LIGHTING CONTROL TAG "E".
5.	UP TO SIGNAGE LIGHTING.
6.	PHOTOCELL FOR NORTH EXTERIOR CANOPY LIGHTING, SIGNAGE LIGHTING, AND TOWER LIGHTING. REFER TO LIGHTING CONTROL TAG "E".
7.	INSTALL ELEVATOR PIT LIGHT SWITCH BY LADDER - COORDINATE WITH ELEVATOR MANUFACTURER.

PLAN NOTES	
A.	REFER TO TYPICAL FLOOR PLANS FOR APARTMENT UNITS.
B.	LIGHTING CONTROL POWERPACKS SHALL BE LOCATED ABOVE THE NEAREST ACCESSIBLE CEILING.
C.	REFER TO LIGHTING CONTROL TAG DETAILS.
D.	ALL EMERGENCY AND EXIT LIGHTING SHALL BE CONNECTED TO THE UNSWITCHED LIGHTING CIRCUIT SERVING THE SAME SPACE.

LIGHTING CONTROL NOTES	
A.	CORRIDOR LIGHTING CONTROLS: a. 2X2 FIXTURES IN THE CORRIDORS ARE EQUIPPED WITH INTEGRAL OCCUPANCY SENSORS AND WILL TURN ON/OFF WITH OCCUPANCY. CONNECT TO UNSWITCHED LIGHTING CIRCUIT. b. DOWNLIGHTS AND WALL SCENES ARE ALWAYS-ON "NIGHT-LIGHTS". CONNECT TO UNSWITCHED LIGHTING CIRCUIT.
B.	STAIRWELL LIGHTING CONTROLS: a. STAIRWELL FIXTURE ARE EQUIPPED WITH INTEGRAL OCCUPANCY SENSORS AND WILL DIM TO 50% WHEN NO OCCUPANCY IS DETECTED. CONNECT TO UNSWITCHED LIGHTING CIRCUIT.
C.	EXTERIOR LIGHTING CONTROLS: a. EXTERIOR WALLPACKS ARE EQUIPPED WITH INTEGRAL PHOTOCELLS AND WILL TURN ON/OFF DEPENDENT ON THE AMOUNT OF DAYLIGHT DETECTED. CONNECT TO UNSWITCHED LIGHTING CIRCUIT. b. CANOPY DOWNLIGHTS ARE CONNECTED TO AN LOCAL 120V PHOTOCELL AND WILL TURN ON/OFF DEPENDENT ON THE AMOUNT OF DAYLIGHT DETECTED. CONNECT TO UNSWITCHED LIGHTING CIRCUIT.

LIGHTING - FIRST FLOOR PLAN - ELECTRICAL



J. E. Eckman 3/31/23
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1	BULLETIN 01 - 07/17/2023
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3	BULLETIN 03 - 10/16/2023

LIGHTING - FIRST FLOOR - ELEC.
GERMANTOWN CROSSING
DAYTON OHIO

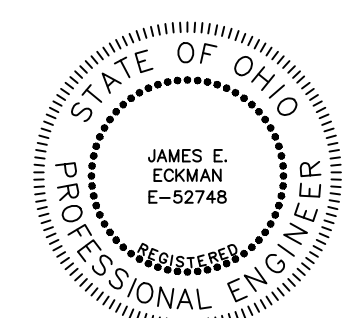


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POWER - FIRST FLOOR - ELEC.
GERMANTOWN CROSSING
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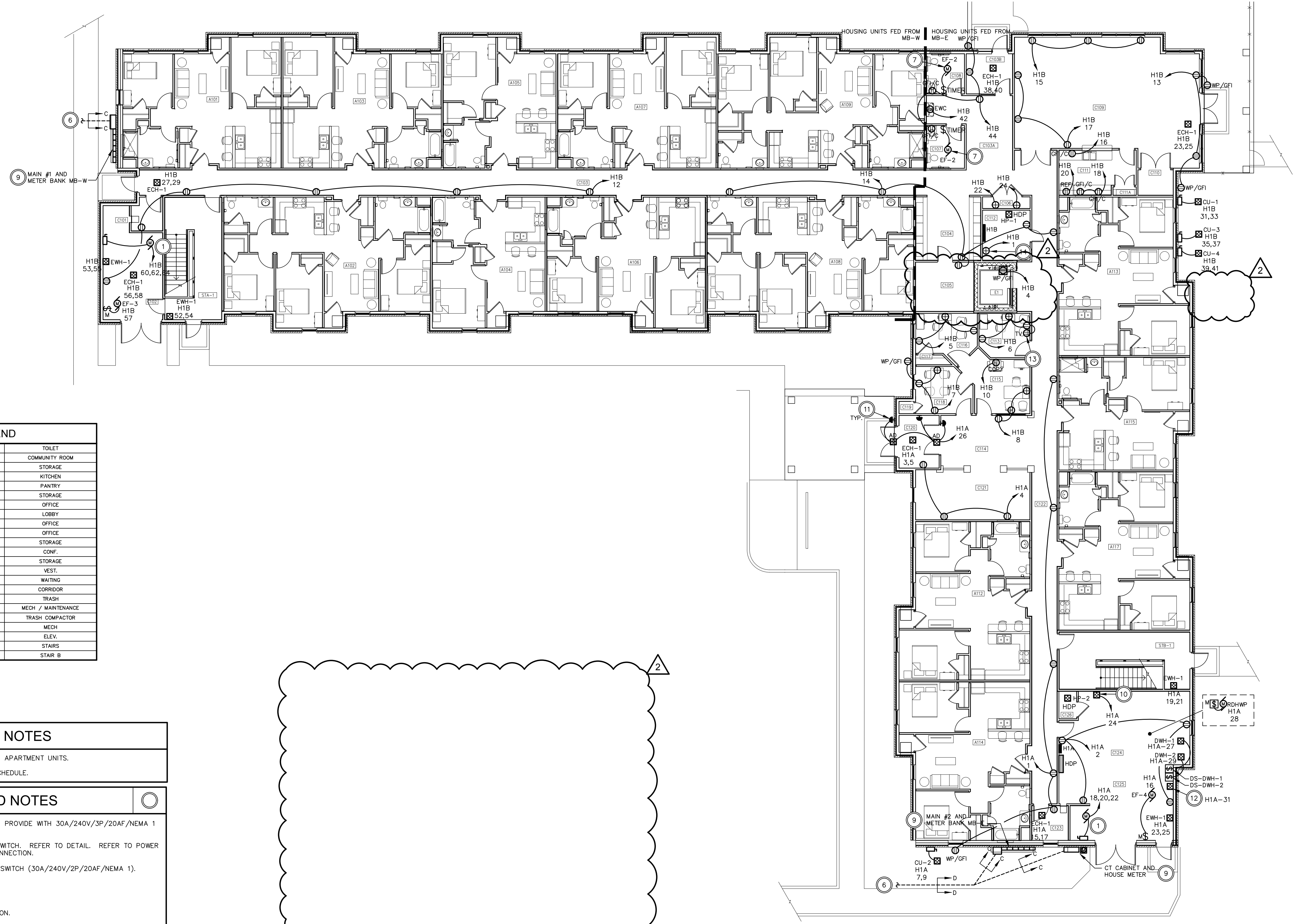
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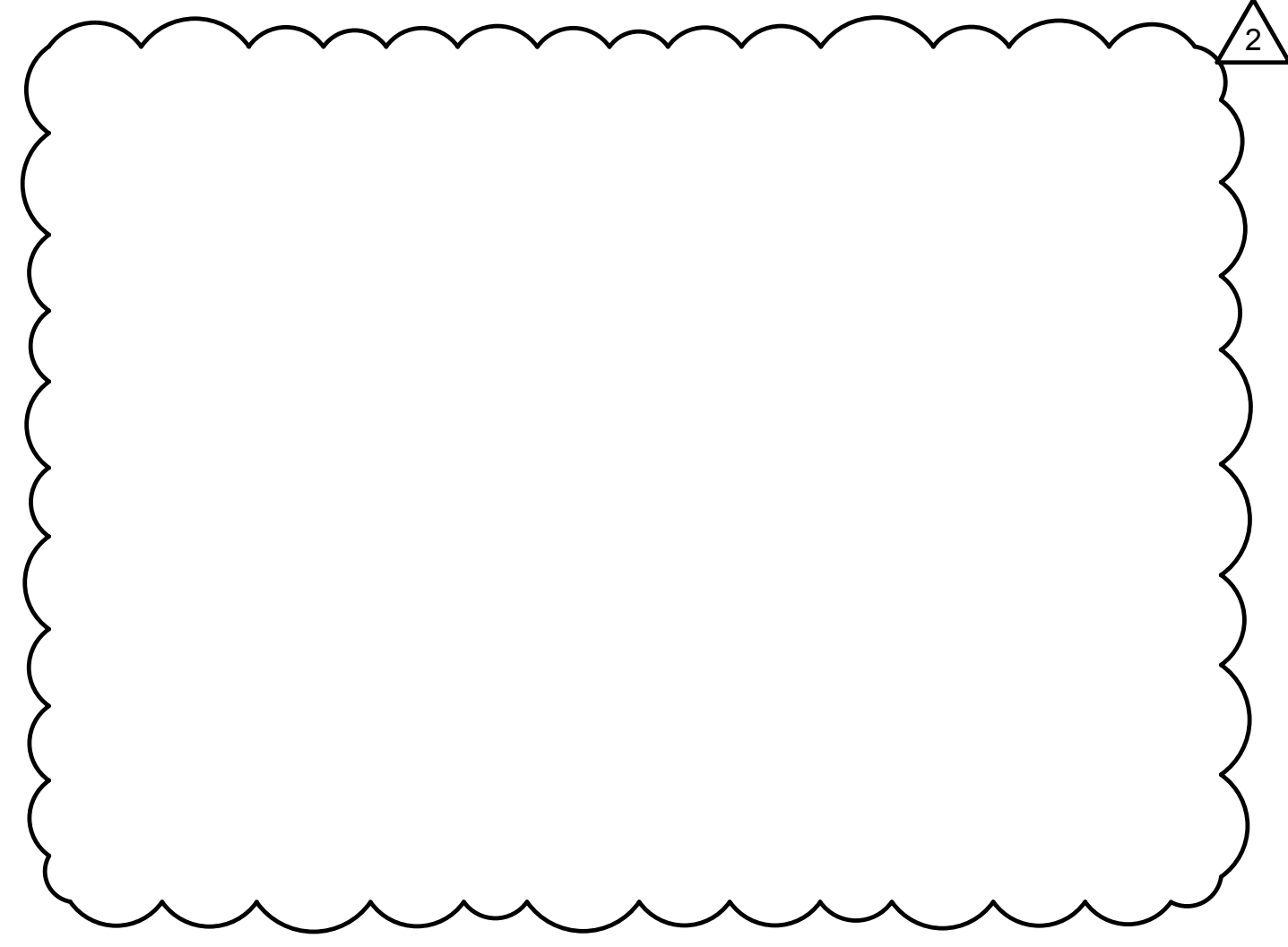
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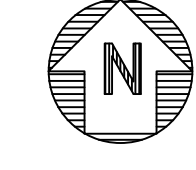
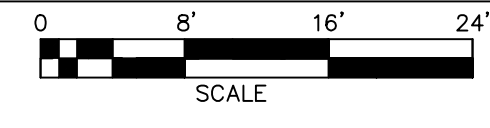
ROOM LEGEND			
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C103B	VEST	C125	TRASH COMPACTOR
C104	MAIL	C126	MECH
C105	STORAGE	E1	ELEV.
C106	DATA	STA-1	STAIRS
C107	TOILET	STB-1	STAIR B

PLAN NOTES	
A.	REFER TO TYPICAL FLOOR PLANS FOR APARTMENT UNITS.
B.	REFER TO MECHANICAL EQUIPMENT SCHEDULE.

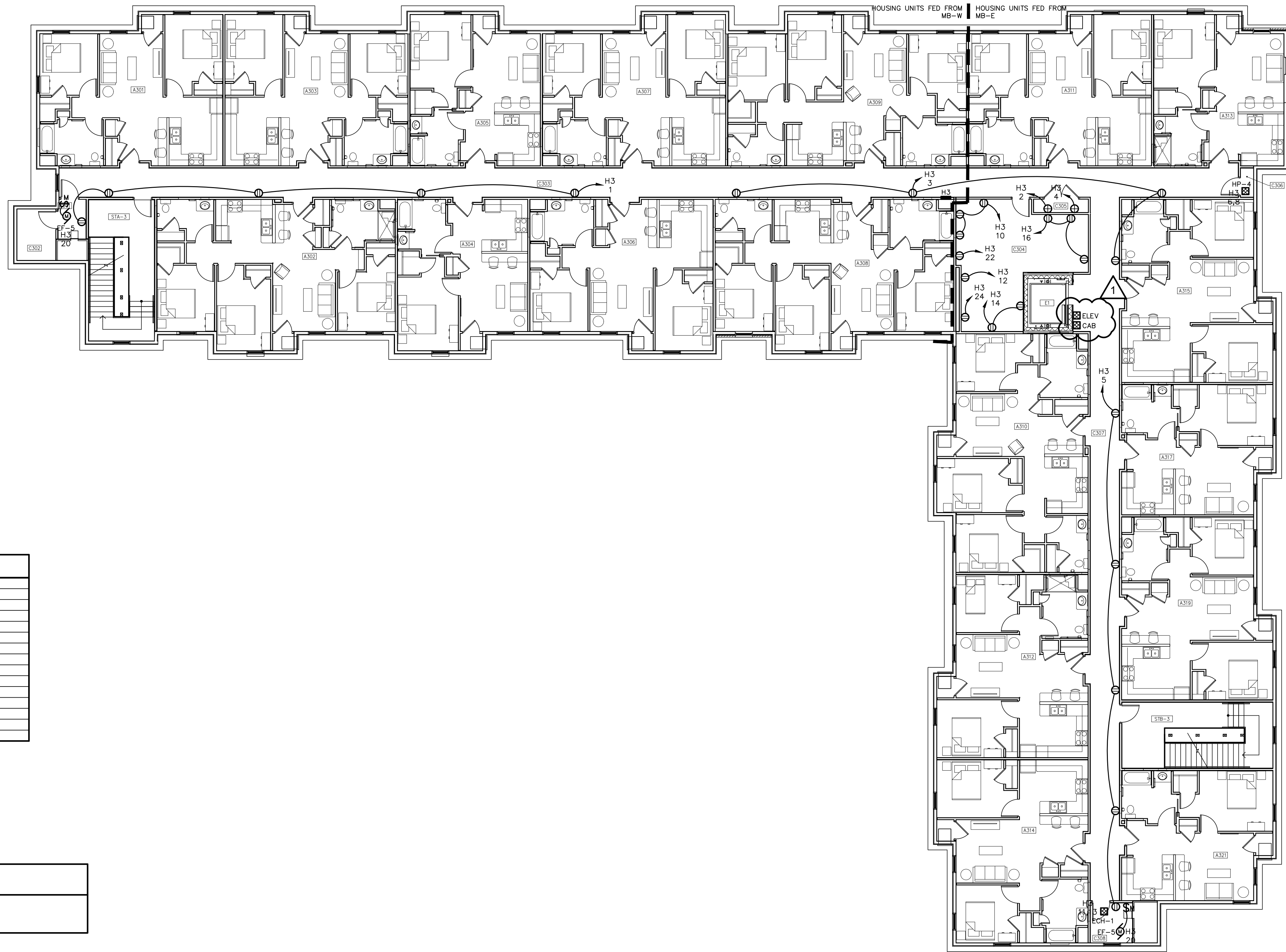
CODED NOTES	
1.	TRASH COMPACTOR (3HP,208V,3PH). PROVIDE WITH 30A/240V/3P/20AF/NEMA 1 DISCONNECT SWITCH.
2.	ELEVATOR SHUNT-TRIP DISCONNECT SWITCH. REFER TO DETAIL. REFER TO POWER RISER DIAGRAM FOR ELEVATOR POWER CONNECTION.
3.	ELEVATOR CAB LIGHTING DISCONNECT SWITCH (30A/240V/2P/20AF/NEMA 1).
4.	NOT USED.
5.	NOT USED.
6.	REFER TO SITE PLAN FOR CONTINUATION.
7.	CONNECT TO UNSWITCHED LIGHTING CIRCUIT SERVING THE RESTROOM.
8.	NOT USED.
9.	COORDINATE EXACT LOCATION OF WALL-MOUNTED ELECTRICAL EQUIPMENT WITH ARCHITECTURAL ELEVATIONS.
10.	DRY-PIPE COMPRESSOR (1HP MAX, 120V). COORDINATE EXACT HORSEPOWER WITH FPC. CONNECT TO PANEL INDICATED WITH #10AWG CONDUCTORS.
11.	COORDINATE FINAL LOCATIONS OF AUTO DOOR PUSHPLATES WITH ARCHITECT PRIOR TO ROUGH-IN (TYPICAL FOR ALL).
12.	MASTER MIXING VALVE (120V).
13.	RECEPTACLE FOR SECURITY CAMERA MONITOR. COORDINATE HEIGHT WITH OWNER'S SECURITY VENDOR.
14.	RECEPTACLE FOR SECURITY SYSTEM RACK. COORDINATE LOCATION WITH OWNER'S SECURITY VENDOR.



POWER - FIRST FLOOR PLAN - ELECTRICAL



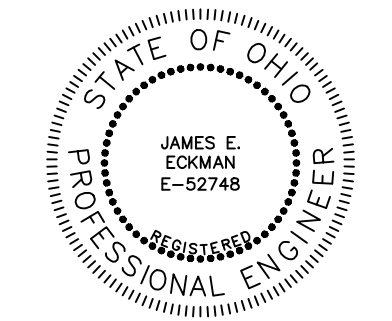
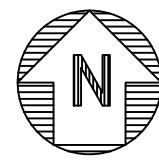
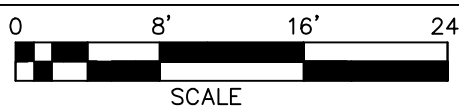
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ROOM LEGEND			
A301	TWO BEDROOM	A317	ONE BEDROOM
A302	THREE BEDROOM MU	A319	TWO BEDROOM
A303	TWO BEDROOM	A321	ONE BEDROOM
A304	ONE BEDROOM	C301	TRASH
A305	ONE BEDROOM	C302	STORAGE
A306	TWO BEDROOM	C303	CORRIDOR
A307	TWO BEDROOM	C304	FITNESS
A308	THREE BEDROOM	C305	DATA
A309	THREE BEDROOM	C306	STORAGE
A310	THREE BEDROOM	C307	CORRIDOR
A311	TWO BEDROOM	C308	TRASH
A312	TWO BEDROOM MU	E1	ELEV.
A313	ONE BEDROOM MU	STA-3	STAIR A
A314	TWO BEDROOM	STB-3	STAIR B
A315	TWO BEDROOM		

PLAN NOTES	
A.	REFER TO TYPICAL FLOOR PLANS FOR APARTMENT UNITS.
B.	REFER TO MECHANICAL EQUIPMENT SCHEDULE.

POWER - THIRD FLOOR PLAN - ELECTRICAL



J. E. Eckman
 SIGNATURE DATE 3/31/23

REVISIONS
 1 BULLETIN 03 - 10/16/2023

POWER - THIRD FLOOR - ELEC.
 GERMANTOWN CROSSING
 DAYTON OHIO



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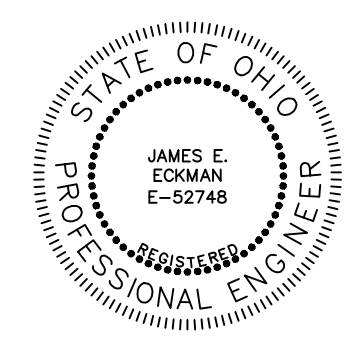
DATE

82A21

PROJECT NUMBER

E203

DRAWING NUMBER



J. E. Eckman 3/31/23
SIGNATURE DATE

REVISIONS	
1	BULLETIN 01 - 07/17/2023
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3	BULLETIN 03 - 10/16/2023

SYSTEMS - FIRST FLOOR - ELEC.
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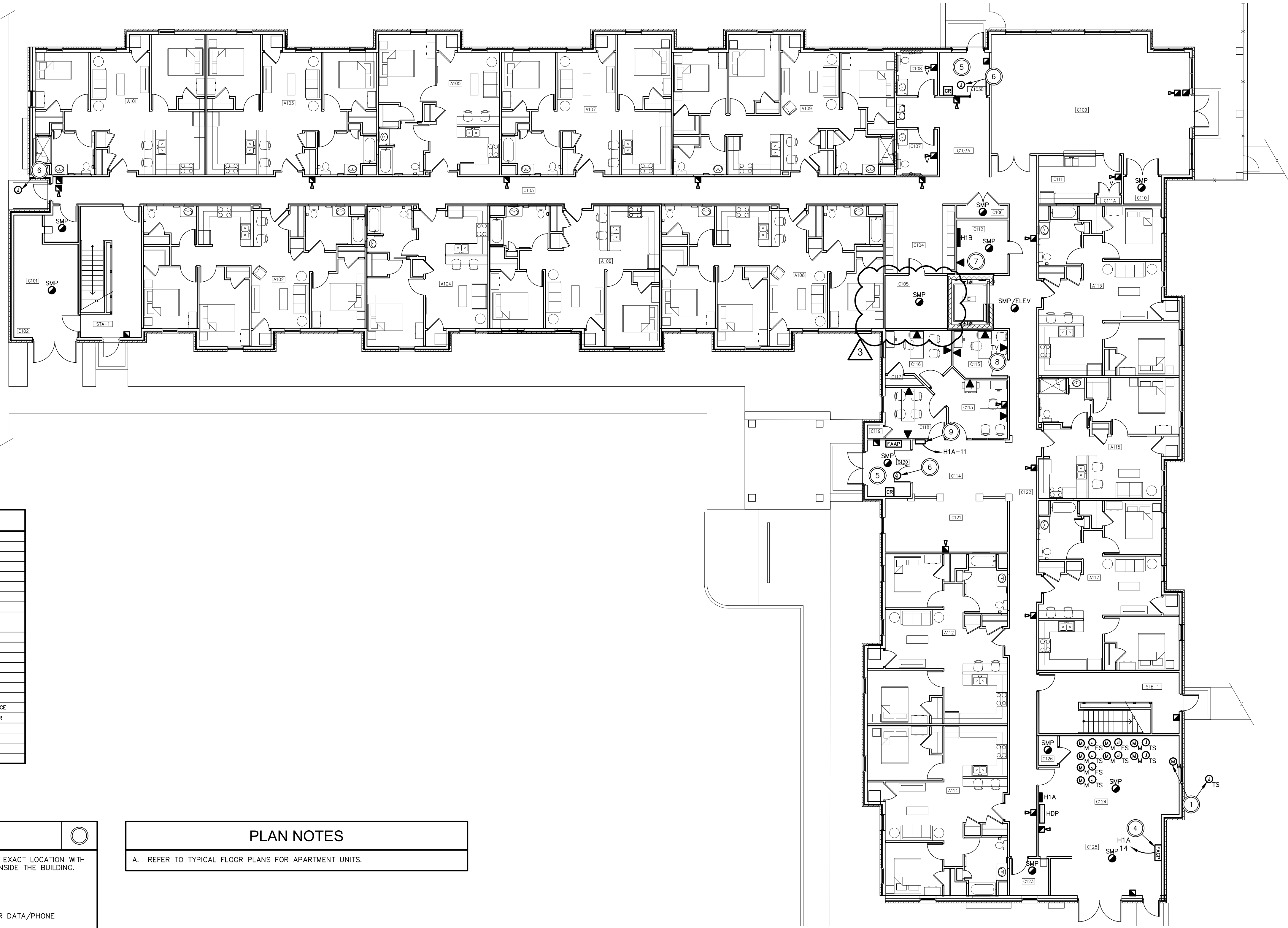


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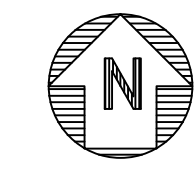
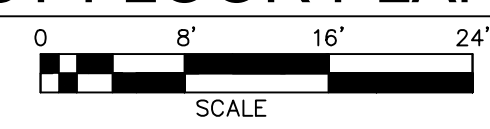
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PROJECT NUMBER

E301
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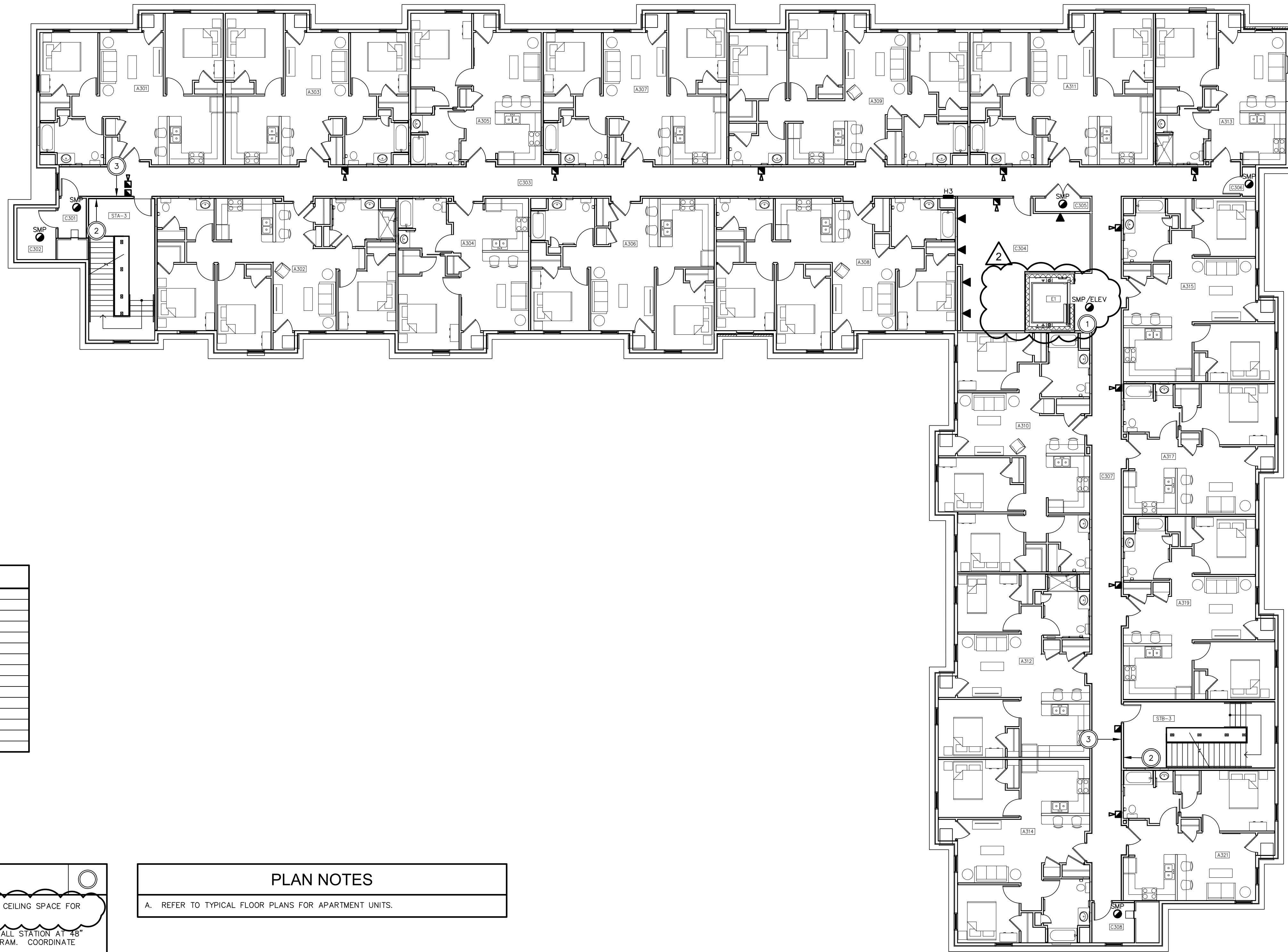
SYSTEMS - FIRST FLOOR PLAN - ELECTRICAL



ROOM LEGEND			
A101	TWO BEDROOM MU	C108	TOILET
A102	THREE BEDROOM	C109	COMMUNITY ROOM
A103	TWO BEDROOM	C110	STORAGE
A104	ONE BEDROOM	C111	KITCHEN
A105	ONE BEDROOM	C111A	PANTRY
A106	TWO BEDROOM	C112	STORAGE
A107	TWO BEDROOM	C113	OFFICE
A108	THREE BEDROOM	C114	LOBBY
A109	THREE BEDROOM	C115	OFFICE
A112	TWO BEDROOM	C116	OFFICE
A113	TWO BEDROOM	C117	STORAGE
A114	TWO BEDROOM	C118	CONF.
A115	ONE BEDROOM MU	C119	STORAGE
A117	TWO BEDROOM	C120	VEST.
C101	TRASH	C121	WAITING
C102	TRASH COMPACTOR	C122	CORRIDOR
C103	CORRIDOR	C123	TRASH
C103A	CORRIDOR	C124	MECH / MAINTENANCE
C103B	VEST	C125	TRASH COMPACTOR
C104	MAIL	C126	MECH
C105	STORAGE	E1	ELEV.
C106	DATA	STA-1	STAIRS
C107	TOILET	STB-1	STAIR B

CODED NOTES	
○	1. TAMPER SWITCH AT POST-INDICATOR VALVE. COORDINATE EXACT LOCATION WITH F.P.C. FIRE ALARM ADDRESSABLE MODULE SHALL BE LOCATED INSIDE THE BUILDING.
△	2. NOT USED.
△	3. NOT USED.
○	4. EXTEND 1" C FROM FACP TO ACCESSIBLE CEILING SPACE FOR DATA/PHONE CONNECTION.
○	5. INTERCOM SYSTEM WILL BE LOCATED IN THIS ROOM. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH INTERCOM SYSTEM VENDOR.
○	6. CEILING-MOUNTED RECESSED JUNCTION BOX FOR CAMERA. EXTEND 1" C TO ACCESSIBLE CEILING SPACE. COORDINATE EXACT LOCATION WITH OWNER'S SECURITY VENDOR.
○	7. DATA OUTLET FOR HEAD-END SECURITY SYSTEM RACK. COORDINATE LOCATION WITH OWNER'S SECURITY VENDOR. PROVIDE (2)-4" CONDUIT SLEEVES OUT OF THIS ROOM INTO ACCESSIBLE CEILING SPACE.
○	8. DATA OUTLET FOR SECURITY CAMERA MONITOR. COORDINATE MOUNTING HEIGHT WITH OWNER'S SECURITY VENDOR.
○	9. AREA OF RESCUE CONTROL ANNUNCIATOR AND SIGNAGE. COORDINATE EXACT LOCATION WITH ARCHITECT AND AHJ PRIOR TO INSTALLATION. COORDINATE EXACT SIGNAGE REQUIREMENTS WITH AHJ.

PLAN NOTES
A. REFER TO TYPICAL FLOOR PLANS FOR APARTMENT UNITS.

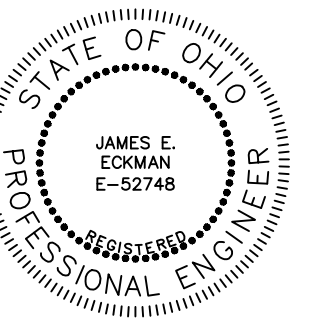


ROOM LEGEND			
A301	TWO BEDROOM	A317	ONE BEDROOM
A302	THREE BEDROOM MU	A319	TWO BEDROOM
A303	TWO BEDROOM	A321	ONE BEDROOM
A304	ONE BEDROOM	C301	TRASH
A305	ONE BEDROOM	C302	STORAGE
A306	TWO BEDROOM	C303	CORRIDOR
A307	TWO BEDROOM	C304	FITNESS
A308	THREE BEDROOM	C305	DATA
A309	THREE BEDROOM	C306	STORAGE
A310	THREE BEDROOM	C307	CORRIDOR
A311	TWO BEDROOM	C308	TRASH
A312	TWO BEDROOM MU	E1	ELEV.
A313	ONE BEDROOM MU	STA-3	STAIR A
A314	TWO BEDROOM	STB-3	STAIR B
A315	TWO BEDROOM		

CODED NOTES	
1.	EXTEND 1" C FROM ELEVATOR CONTROLLER TO ACCESSIBLE CEILING SPACE FOR DATA/PHONE CONNECTION.
2.	AREA OF RESCUE CALL STATION AND SIGNAGE. MOUNT CALL STATION AT 48" AFF TO CENTERLINE. REFER TO AREA OF RESCUE WIRING DIAGRAM. COORDINATE EXACT SIGNAGE REQUIREMENTS WITH AHJ.
3.	AREA OF RESCUE ASSISTANCE SIGNAGE.

PLAN NOTES
A. REFER TO TYPICAL FLOOR PLANS FOR APARTMENT UNITS.

SYSTEMS - THIRD FLOOR PLAN - ELECTRICAL



J. E. Eckman 3/31/23
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SYSTEMS - THIRD FLOOR - ELEC.
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PROJECT NUMBER

E303

DRAWING NUMBER

TYPICAL ONE-BEDROOM PANELBOARD SCHEDULE

PANEL: ONE-BED LOCATION: AS NOTED ON PLAN MOUNTING: FLUSH

SERVICE: 208/120 VOLTS 1 PHASE 3 WIRE 60 HZ

MAINS 125 AMPS, LUGS, 125A CCT. BKR.

FED FROM UTILITY METER FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS

LOAD	DESCRIPTION	CCT. BKR. NO.	CCT. NO.	CCT. NO.	CCT. BKR. NO.	DESCRIPTION	LOAD
H-6743	HVAC UNIT VRP-1	45/2	1	2	20/1	RECEPT/LIGHTS - KITCHEN & LIVING	L/R-1030
			3	4	20/1	RECEPT/LIGHTS - BATH, BEDROOM, SMOKE ALARMS	L/R-1016
R-8000	RANGE	50/2	5	6	20/1	RECEPT - KITCHEN COUNTER & FRIDGE	R-540
			7	8	20/1	RECEPT - KITCHEN PENINSULA	R-540
R-360	RECEPT. - BATHROOM	20/1	9	10	20/1	SPARE	-
-	SPARE	20/1	11	12	20/1	SPARE	-

REMARKS:
 1. RESIDENTIAL-STYLE LOADCENTER PANEL.
 2. ALL AS/1 AND 2/1 CIRCUIT BREAKERS SHALL BE AER TYPE.

LOAD LEGEND:
 R - RECEPTACLES
 L - LIGHTING
 B - PLUMBING
 H - HVAC

PLAN NOTES

A. LIGHT FIXTURES IN CLOSETS SHALL BE LOCATED AT LEAST 12" FROM STORAGE SHELVES.

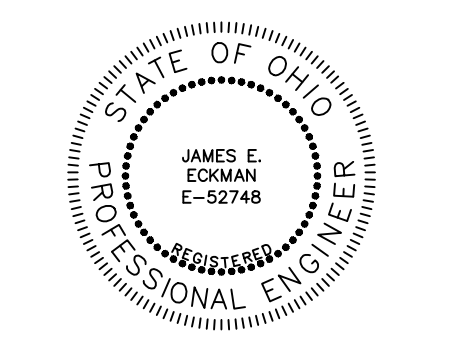
CODED NOTES

- EXHAUST FAN HAS LOW/HIGH SPEED SETTING. FAN WILL RUN CONTINUOUSLY AT LOW SPEED. FAN WILL SWITCH TO HIGH SPEED WHEN THE WALL SWITCH IS TURNED ON. CONNECT TO UNSWITCHED LIGHTING CIRCUIT IN ROOM.
- NEMA 14-50R RECEPTACLE FOR RANGE. CONNECT TO CIRCUIT INDICATED WITH (3)-#8, (1)-#10GND IN 3/4" C.
- RANGE HOOD. PROVIDE ON/OFF SWITCH IN ACCESSIBLE LOCATION ABOVE COUNTERTOP AS SHOWN.
- RECEPTACLE MOUNTED ON SIDE OF CABINET, 8" BELOW COUNTERTOP TO CENTERLINE.
- NOT USED.
- RANGE HOOD WITH INTEGRAL SWITCH.

ACCESSIBILITY REQUIREMENTS FOR MOBILITY UNITS

THE FOLLOWING OUTLINES THE MINIMUM ADA REQUIREMENTS FOR DEVICE MOUNTING HEIGHTS IN MOBILITY UNITS.

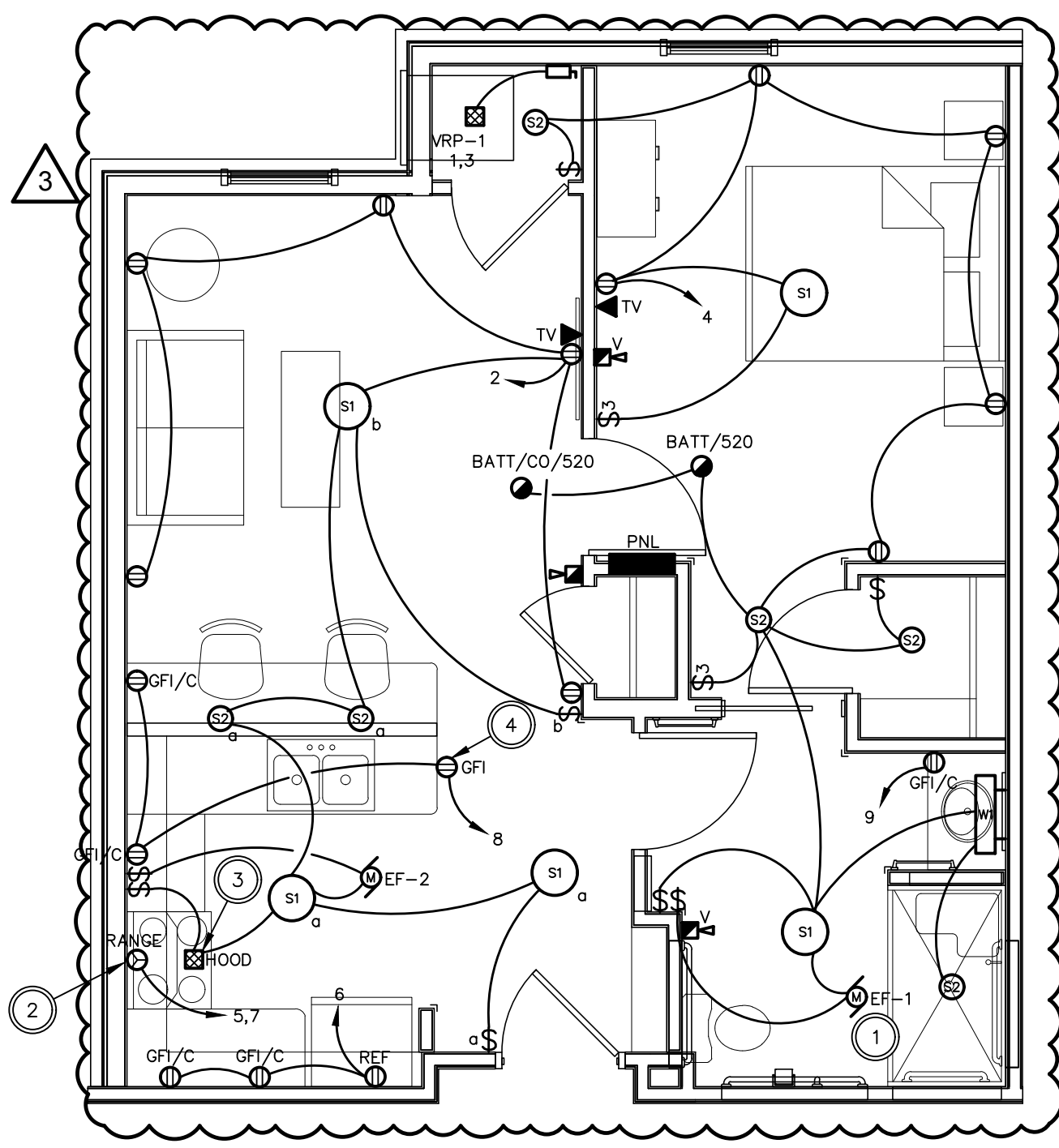
- FORWARD REACH WITH NO OBSTRUCTION:
 - LIGHT SWITCHES MAXIMUM HEIGHT: 48" TO CENTERLINE.
 - POWER RECEPTACLE MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
 - DATA OUTLET MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
- SIDE REACH OVER AN OBSTRUCTION (WHERE DEVICES ARE LOCATED ABOVE COUNTERTOPS WITH NO KNEE SPACE):
 - MAXIMUM HEIGHT OF ALL DEVICES: 46" TO CENTERLINE.



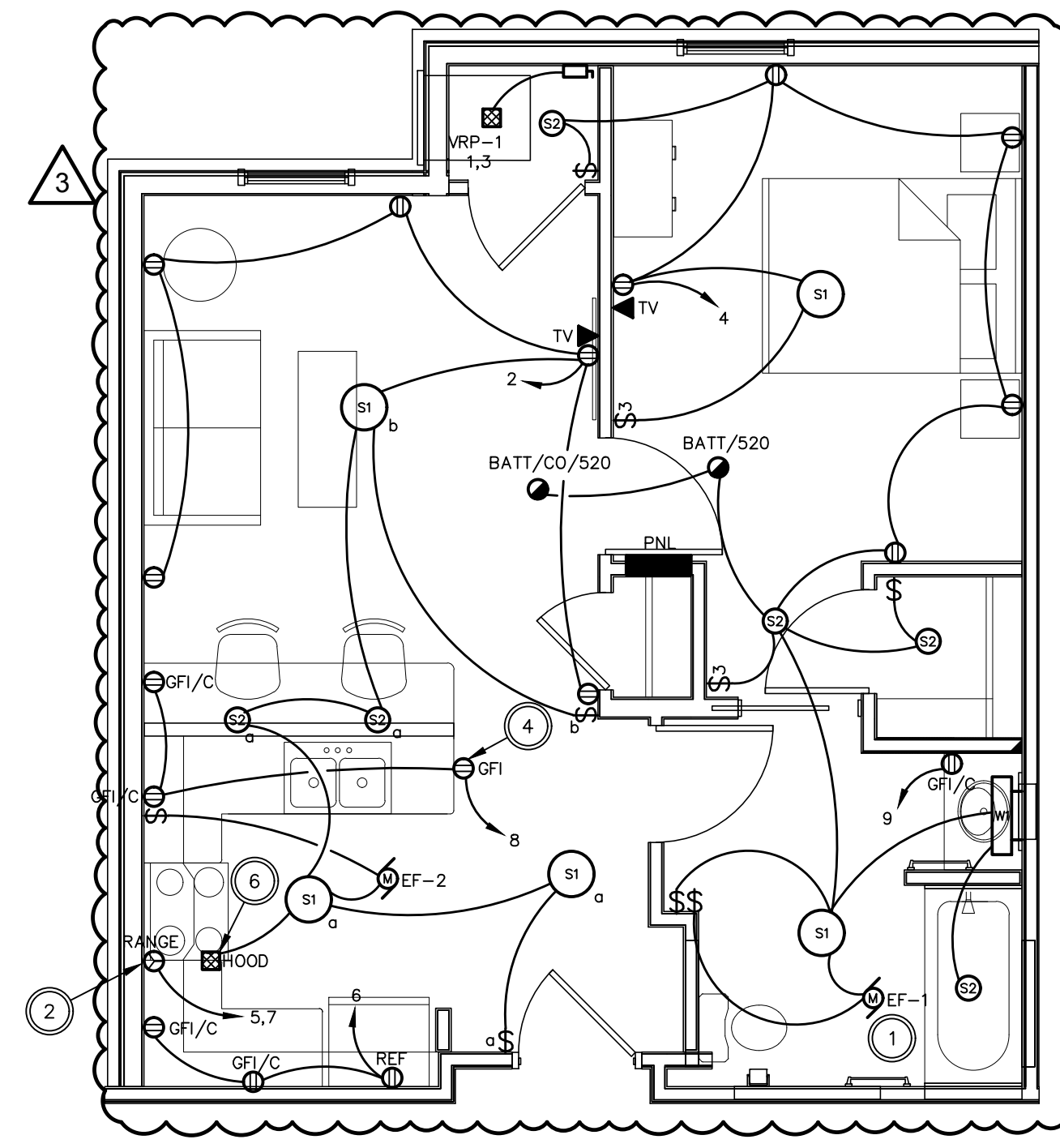
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1	BULLETIN 01 - 07/17/2023	
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NEW WORK - TYP. ONE BEDROOM MU - ELECTRICAL



NEW WORK - TYP. ONE BEDROOM - ELECTRICAL

TYPICAL ONE BEDROOM - ELEC.

GERMANTOWN CROSSING
DAYTON OHIO



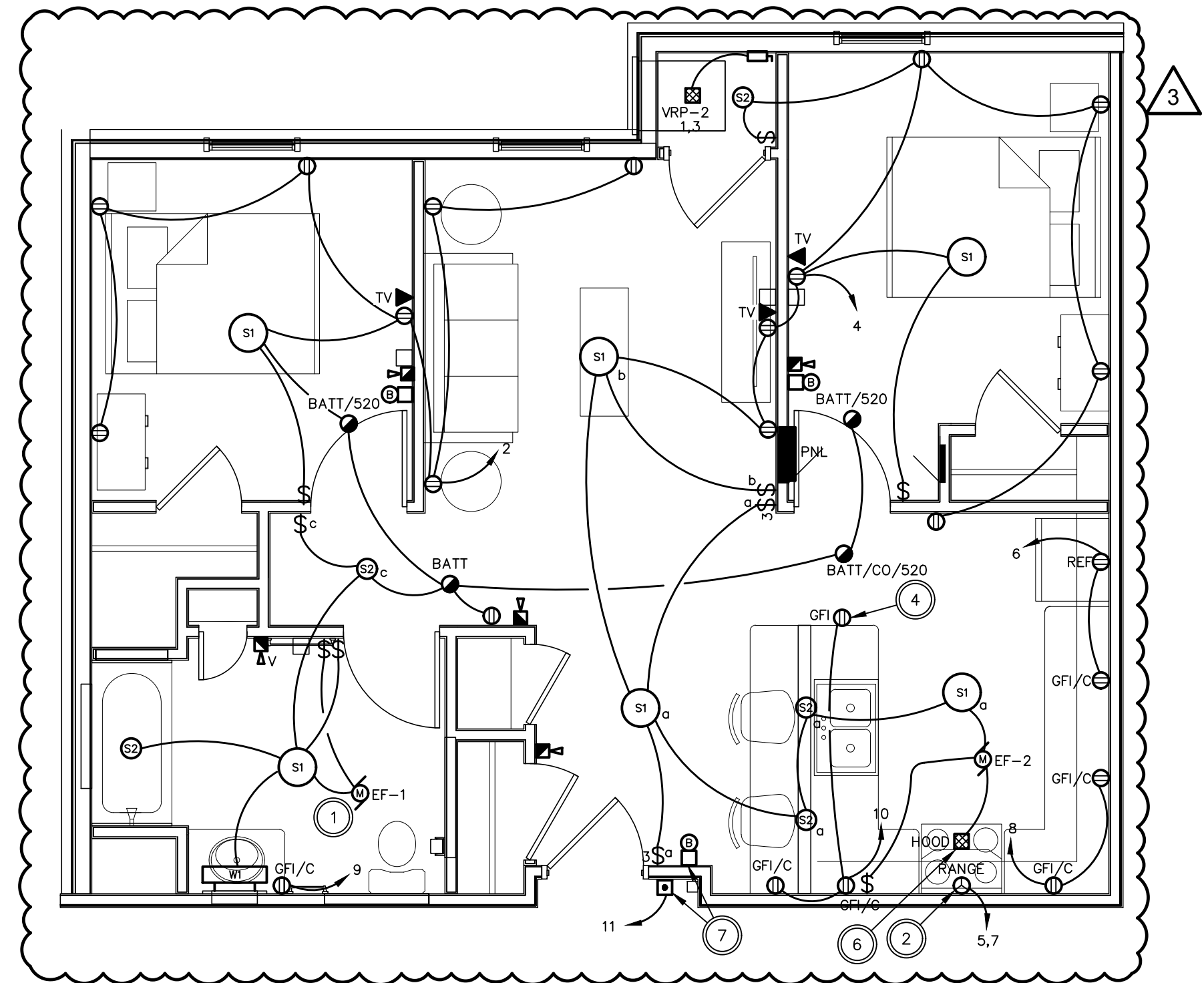
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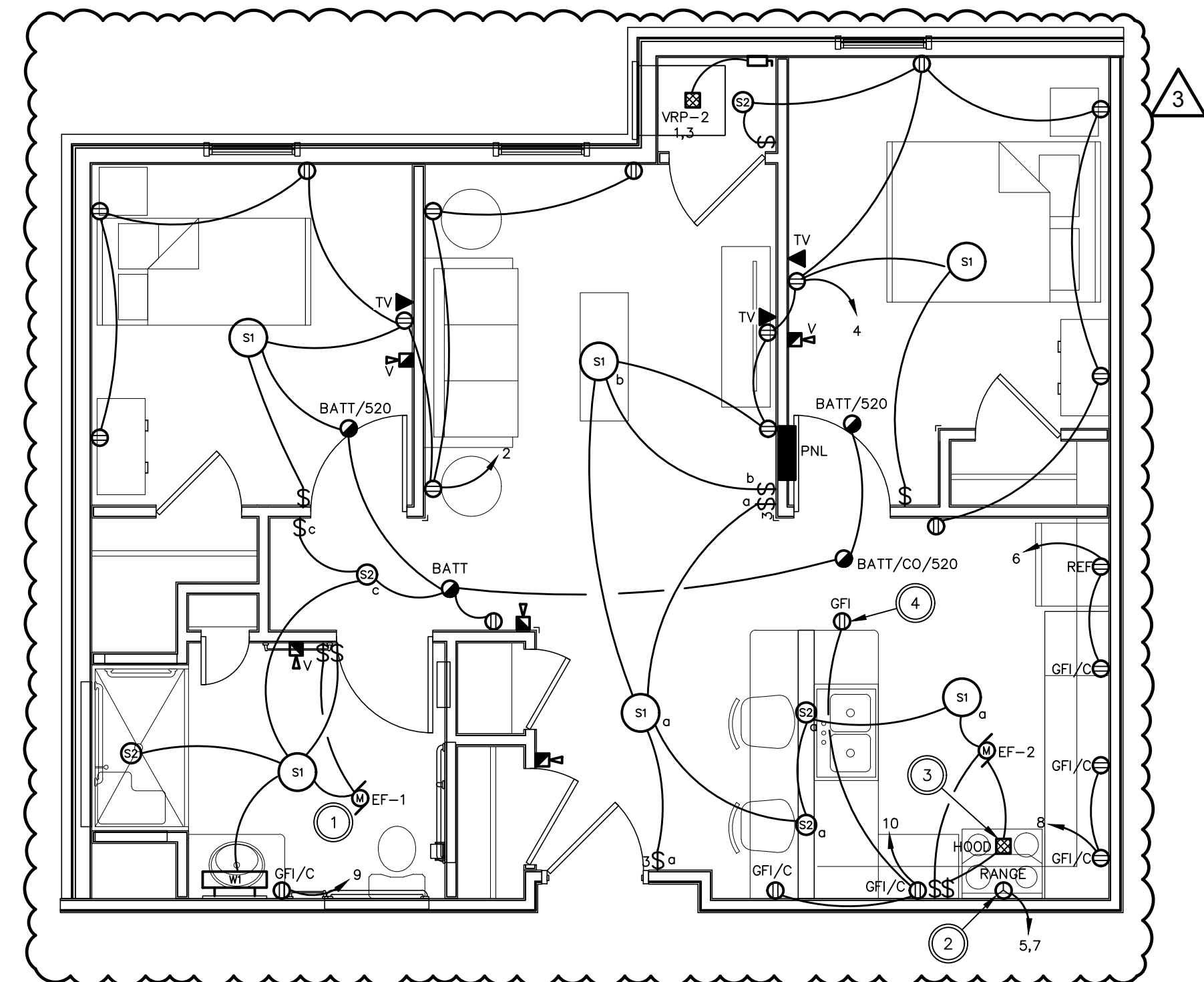
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82A21
PROJECT NUMBER

E401
DRAWING NUMBER



NEW WORK - TYP. TWO BEDROOM S&H - ELECTRICAL



NEW WORK - TYP. TWO BEDROOM MU - ELECTRICAL

TYPICAL TWO-BEDROOM PANELBOARD SCHEDULE

PANEL: TWO-BED LOCATION: AS NOTED ON PLAN MOUNTING: FLUSH

SERVICE: 208/120 VOLTS 1 PHASE 3 WIRE 60 HZ

MAINS 125 AMPS, — LUGS, 125A CCT. BKR.

FED FROM UTILITY METER FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS

LOAD	DESCRIPTION	CCT. BKR.	CCT. NO.	CCT. NO.	CCT. BKR.	DESCRIPTION	LOAD
H-7862	HVAC UNIT VRP-2	50/2	1	2	20/1	RECEPT/LIGHTS - BED, BATH, LIVING, SMOKE ALARMS	L/R-1546
			3	4	20/1	RECEPT/LIGHTS - LIVING, KITCHEN, BED	L/R-1422
R-8000	RANGE	50/2	5	6	20/1	RECEPT. - KITCHEN COUNTER, FRIDGE	R-360
			7	8	20/1	RECEPT. - KITCHEN COUNTER	R-360
R-180	RECEPT. - BATHROOM	20/1	9	10	20/1	RECEPT. - KITCHEN PENINSULA	R-540
M-50	DOORBELL (S&H UNIT ONLY)	20/1	11	12	20/1	SPARE	--
-	SPARE	20/1	13	14	20/1	SPARE	--
-	SPARE	20/1	15	16	20/1	SPARE	--

REMARKS:
 1. RESIDENTIAL-STYLE LOADCENTER PANEL.
 2. ALL 15/1 AND 20/1 CIRCUIT BREAKERS SHALL BE AFCI TYPE.

LOAD LEGEND:
 R - RECEPTACLES
 L - LIGHTING
 P - PLUMBING
 H - HVAC

PLAN NOTES

A. LIGHT FIXTURES IN CLOSETS SHALL BE LOCATED AT LEAST 12" FROM STORAGE RACKING.

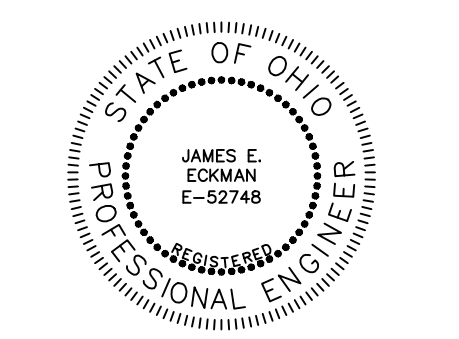
CODED NOTES

- EXHAUST FAN HAS LOW/HIGH SPEED SETTING. FAN WILL RUN CONTINUOUSLY AT LOW SPEED. FAN WILL SWITCH TO HIGH SPEED WHEN THE WALL SWITCH IS TURNED ON. CONNECT TO UNSWITCHED LIGHTING CIRCUIT IN ROOM.
- NEMA 14-50R RECEPTACLE FOR RANGE. CONNECT TO CIRCUIT INDICATED WITH (3)-#8, (1)-#10GND IN 3/4"C.
- RANGE HOOD. PROVIDE ON/OFF SWITCH IN ACCESSIBLE LOCATION ABOVE COUNTERTOP AS SHOWN.
- RECEPTACLE MOUNTED ON SIDE OF CABINET, 8" BELOW COUNTERTOP TO CENTERLINE.
- NOT USED.
- RANGE HOOD WITH INTEGRAL SWITCH.
- DOORBELL AND ASSOCIATED STROBE DEVICE (TYP.). REFER TO DETAIL.

ACCESSIBILITY REQUIREMENTS FOR MOBILITY UNITS

THE FOLLOWING OUTLINES THE MINIMUM ADA REQUIREMENTS FOR DEVICE MOUNTING HEIGHTS IN MOBILITY UNITS.

- FORWARD REACH WITH NO OBSTRUCTION:
 - LIGHT SWITCHES MAXIMUM HEIGHT: 48" TO CENTERLINE.
 - POWER RECEPTACLE MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
 - DATA OUTLET MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
- SIDE REACH OVER AN OBSTRUCTION (WHERE DEVICES ARE LOCATED ABOVE COUNTERTOPS WITH NO KNEE SPACE):
 - MAXIMUM HEIGHT OF ALL DEVICES: 46" TO CENTERLINE.



J. Eckman 3/31/23
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1	BULLETIN 01 - 07/17/2023	
2	BULLETIN 02 - 09/19/2023	
3	BULLETIN 03 - 10/16/2023	

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TYPICAL TWO BEDROOM - ELEC.
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E402
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TYPICAL THREE-BEDROOM PANELBOARD SCHEDULE

PANEL: TYP. 3 BR LOCATION: AS NOTED ON PLAN MOUNTING: FLUSH

SERVICE: 208/120 VOLTS, 1 PHASE, 3 WIRE, 60 HZ
 MAINS 150 AMPS, - LUGS, 150A CCT. BKR.
 FED FROM UTILITY METER FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS

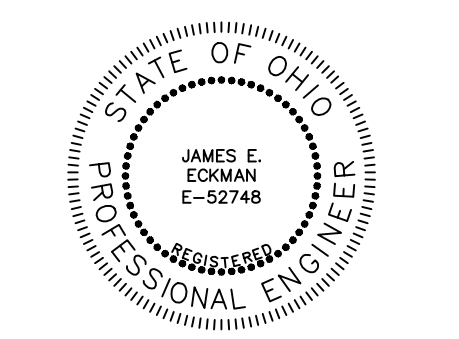
LOAD	DESCRIPTION	CCT. BKR.	CCT. NO.	CCT. NO.	CCT. BKR.	DESCRIPTION	LOAD
H-8186	HVAC UNIT VRF-3 CIRCUIT #1	50/2	1	2	25/2	HVAC UNIT VRF-3 CIRCUIT #2	H-3993
R-8000	RANGE	50/2	5	6	20/1	RECEPT. - KITCHEN COUNTER, FRIDGE	R-540
L/R-1536	RECEPT/LIGHTS. - LIVING, BED, BATH	20/1	7	8	20/1	RECEPT. - KITCHEN PENINSULA	R-540
L/R-1442	RECEPT/LIGHTS. - LIVING, BED, KITCHEN	20/1	9	10	20/1	RECEPT. - BATHROOMS	R-360
L/R-1176	RECEPT/LIGHTS. - BED, BATH	20/1	11	12	20/1	SPARE	-
-	SPARE	20/1	13	14	20/1	SPARE	-
-	SPARE	20/1	15	16	20/1	SPARE	-

REMARKS:
 1. RESIDENTIAL-STYLE LOADCENTER PANEL.
 2. ALL 15/1 AND 20/1 CIRCUIT BREAKERS SHALL BE AFCI TYPE.

LOAD LEGEND:
 R - RECEPTACLES
 L - LIGHTING
 H - HVAC

- ### PLAN NOTES
- A. LIGHT FIXTURES IN CLOSETS SHALL BE LOCATED AT LEAST 12" FROM STORAGE RACKING.
- ### CODED NOTES
- EXHAUST FAN HAS LOW/HIGH SPEED SETTING. FAN WILL RUN CONTINUOUSLY AT LOW SPEED. FAN WILL SWITCH TO HIGH SPEED WHEN THE WALL SWITCH IS TURNED ON. CONNECT TO UNSWITCHED LIGHTING CIRCUIT IN ROOM.
 - NEMA 14-50R RECEPTACLE FOR RANGE. CONNECT TO CIRCUIT INDICATED WITH (3)-#8, (1)-#10GND IN 3/4"C.
 - RANGE HOOD. PROVIDE ON/OFF SWITCH IN ACCESSIBLE LOCATION ABOVE COUNTERTOP AS SHOWN.
 - RECEPTACLE MOUNTED ON SIDE OF CABINET, 8" BELOW COUNTERTOP TO CENTERLINE.
 - NOT USED.
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- ### ACCESSIBILITY REQUIREMENTS FOR MOBILITY UNITS
- THE FOLLOWING OUTLINES THE MINIMUM ADA REQUIREMENTS FOR DEVICE MOUNTING HEIGHTS IN MOBILITY UNITS.
- FORWARD REACH WITH NO OBSTRUCTION:
 - LIGHT SWITCHES MAXIMUM HEIGHT: 48" TO CENTERLINE.
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TYPICAL THREE BEDROOM - ELEC.
 GERMANTOWN CROSSING
 DAYTON OHIO

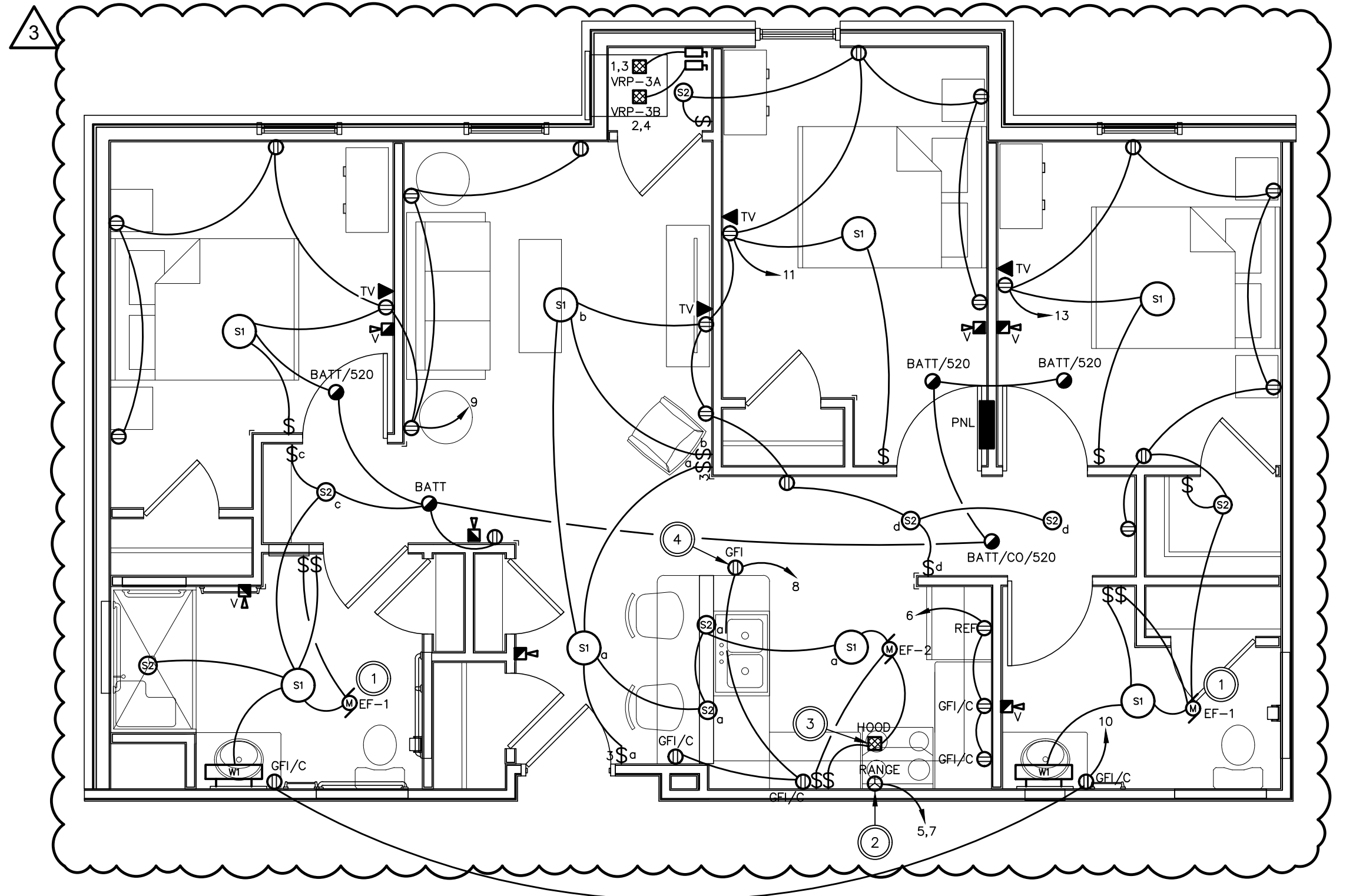


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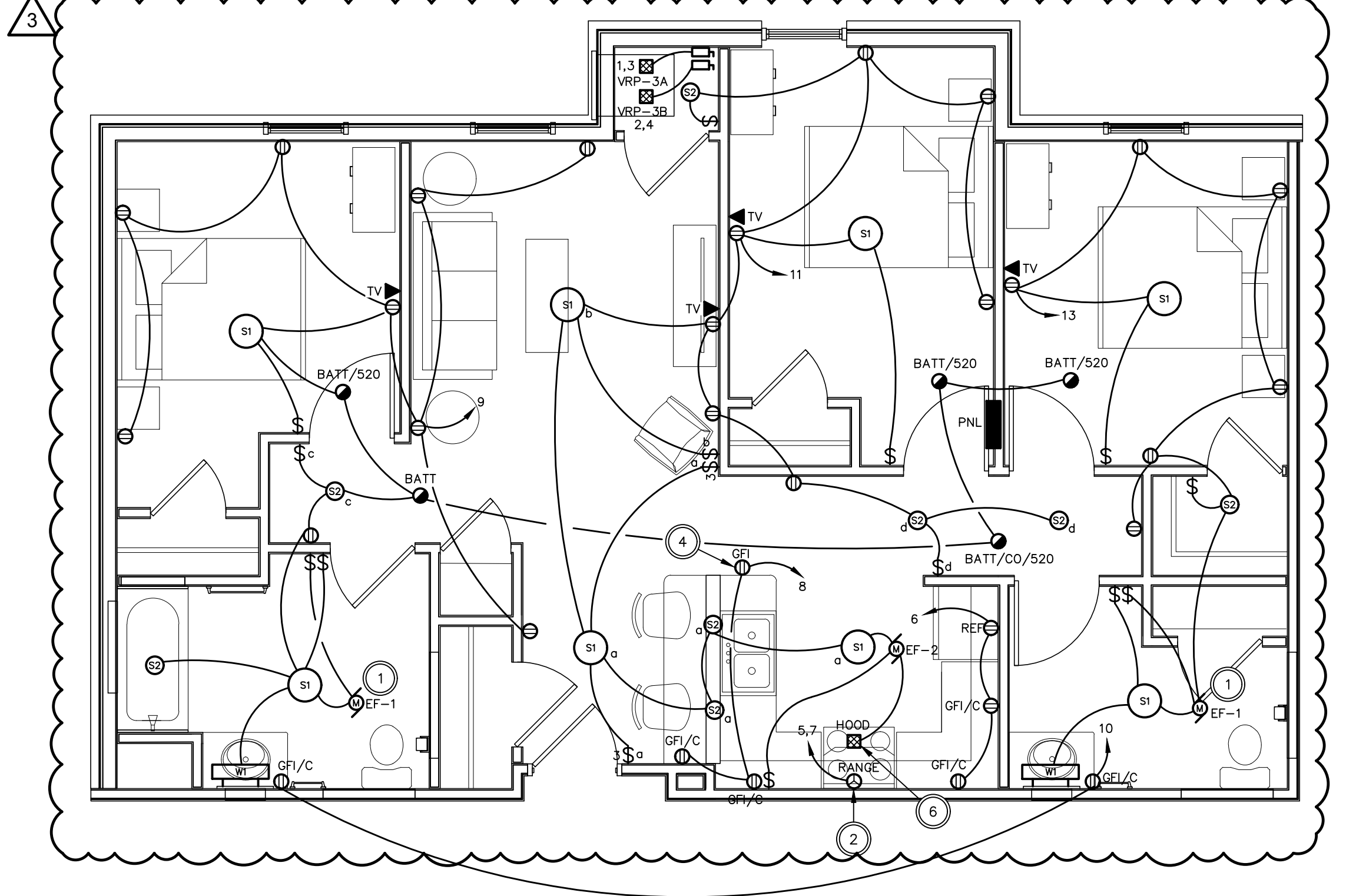
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E403
 DRAWING NUMBER



NEW WORK - TYP. THREE BEDROOM MU - ELECTRICAL



NEW WORK - TYP. THREE BEDROOM - ELECTRICAL

MULTIFAMILY DWELLING UNIT LOAD CALCULATIONS

BASED ON 2017 NEC 220.84.

ONE-BED UNIT (559 SQUARE FEET)		TWO-BED UNIT (751 SQUARE FEET)		THREE-BED UNIT (981 SQUARE FEET)	
LOAD	VA	LOAD	VA	LOAD	VA
GENERAL USE LIGHTING & RECEPTACLES (3W/SQ FT)	1677	GENERAL USE LIGHTING & RECEPTACLES (3W/SQ FT)	2253	GENERAL USE LIGHTING & RECEPTACLES (3W/SQ FT)	2943
SMALL APPLIANCE (1500W EACH)	3000	SMALL APPLIANCE (1500W EACH)	3000	SMALL APPLIANCE (1500W EACH)	3000
RANGE	8000	RANGE	8000	RANGE	8000
HVAC	6743	HVAC	7862	HVAC	12179
TOTAL	19420	TOTAL	21115	TOTAL	26122
TOTAL AMPS @ 208V, 1PH: 93A		TOTAL AMPS @ 208V, 1PH: 102A		TOTAL AMPS @ 208V, 1PH: 127A	

HOUSE LOAD CALCULATION

LOAD	CONNECTED VA	DEMAND VA
LIGHTING	7598	7598
RECEPTACLE	24440	17220
HVAC	147353	131353
WASHERS	4000	4000
DRYERS	20000	20000
ELEVATOR	15120	15120
MISCELLANEOUS	8120	5000
TOTAL	226631	200291
TOTAL DEMAND AMPS @ 208V, 3PH: 557A		

PLAN NOTES

- A. "LSI" ON BREAKER INDICATES INDEPENDENTLY-ADJUSTABLE TRIP UNIT.
 L - LONG-TIME PICKUP
 S - SHORT-TIME PICKUP
 I - INSTANTANEOUS PICKUP

CODED NOTES

- SERVICE ENTRANCE GROUNDING ELECTRODE CONDUCTOR. SEE DETAIL SHEET FOR ADDITIONAL INFORMATION.
- BOND NEUTRAL AND GROUND AT SERVICE ENTRANCE. SEE DETAIL SHEET FOR ADDITIONAL INFORMATION.
- COORDINATE BREAKER SIZE WITH SPD MANUFACTURER. REVISE FEEDER SIZE TO MATCH BREAKER SIZE RECOMMENDED BY MANUFACTURER.
- EXTERNALLY-MOUNTED SURGE PROTECTION DEVICE LOCATED ON TOP OR SIDE OF DISTRIBUTION PANEL. REFER TO SPECIFICATIONS.
- MINIMIZE CONDUCTOR LENGTH AS MUCH AS POSSIBLE.
- PROVIDE TRANSFORMER PAD PER UTILITY REQUIREMENTS. REFER TO DETAIL AND COORDINATE WITH UTILITY.
- 2000A, 208V, 3PH, 4W TRANSITION CABINET WITH MECHANICAL LUGS, FRONT-ACCESSIBLE WITH REMOVABLE SIDE AND BACK COVERS, 39" WIDE x 24" DEEP x 60" TALL. PROVIDE "SCC" SERIES CABINET BY AMERICAN MIDWEST POWER (OR EQUAL).
- 150A/2P BREAKERS SERVICE 3-BED UNITS. 125A/2P BREAKERS SERVE 1-BED AND 2-BED UNITS.
- PROVIDE WIRE SIZE TO MATCH BREAKER SIZE AS REQUIRED.
- SPARE CIRCUIT BREAKER, LABELED "FUTURE PV ARRAY".
- 1" C WITH PULLSTRING. CAP AND LABEL AT BOTH ENDS.
- 1" C WITH PULLSTRING. EXTEND UP TO DESIGNATED PV ARRAY AREA ON ROOF. COORDINATE LOCATION WITH ARCHITECT AND OWNER. CAP AND LABEL AT BOTH ENDS.

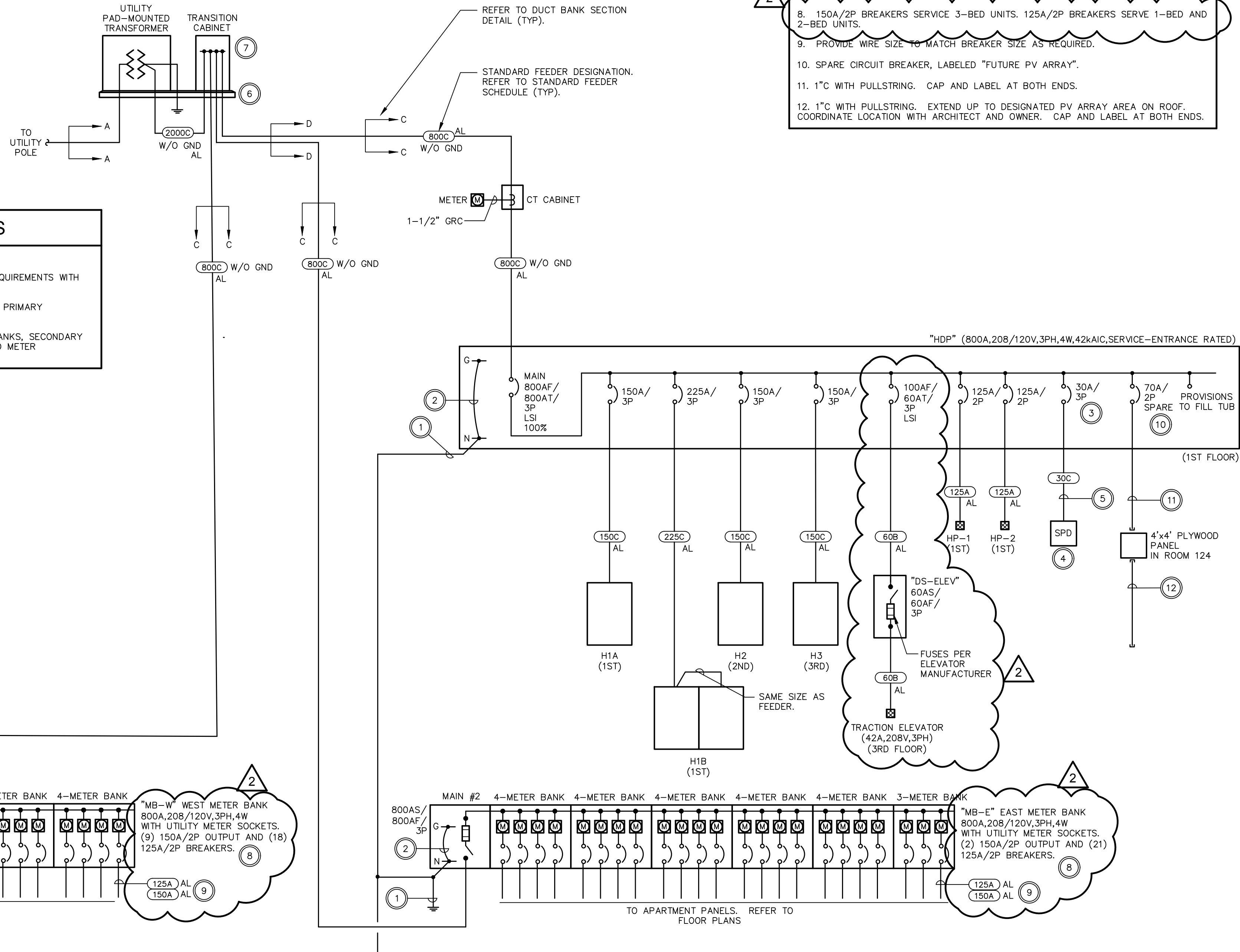
WEST METER BANK "MB-W"		EAST METER BANK "MB-E"	
NUMBER OF ONE-BED UNITS	6	NUMBER OF ONE-BED UNITS	7
NUMBER OF TWO-BED UNITS	12	NUMBER OF TWO-BED UNITS	14
NUMBER OF THREE-BED UNITS	9	NUMBER OF THREE-BED UNITS	2
TOTAL CONNECTED LOAD	605 KVA	TOTAL CONNECTED LOAD	483.8 KVA
DEMAND FACTOR (TABLE 220.84)	34%	DEMAND FACTOR (TABLE 220.84)	36%
TOTAL DEMAND LOAD	205.7 KVA	TOTAL DEMAND LOAD	174.2 KVA
TOTAL AMPS @ 208V, 3PH	571 A	TOTAL AMPS @ 208V, 3PH	483.4 A

METERING ASSEMBLY NOTES

- EATON IS THE BASIS-OF-DESIGN FOR THE RESIDENTIAL METER BANK ASSEMBLIES. EQUALS BY SQUARE D, SIEMENS, AND ABB ARE ACCEPTABLE.
- MAIN FUSED SWITCH DISCONNECT: 208/120V, 3PH, 4W, AMPERAGE AND FUSE SIZE AS NOTED, EXTERIOR ENCLOSURE, SERVICE-ENTRANCE RATED, COPPER BUS. EATON #3MFS SERIES WITH #3MFSBBK BARRIER KIT.
- METER ASSEMBLIES: 208/120V, 3PH, 4W, AMPERAGE AS NOTED, EXTERIOR ENCLOSURE, RINGLESS WITH HORN BYPASS, 200A/2P OUTPUT BREAKERS, COPPER BUS. EATON #3MM SERIES.
- PROVIDE PLASTIC ENGRAVED LABEL ON EACH METER SOCKET. LABEL TO READ "APARTMENT ###" AND INDICATE WHICH APARTMENT IS BEING SERVED.
- PROVIDE PLASTIC ENGRAVED LABEL ON THE MAIN DISCONNECT SWITCH PER DETAIL.
- THE TOP METER MUST BE NOT ANY HIGHER THAN 72" FROM THE TOP OF THE METER FROM FINAL GRADE.
- THE BOTTOM METER MUST NOT BE ANY LOWER THAN 24" TO THE TOP OF THE METER FROM FINAL GRADE.
- BALANCE THE METER STACKS IN THE FIELD BETWEEN ALL THREE PHASES AS EVENLY AS POSSIBLE.

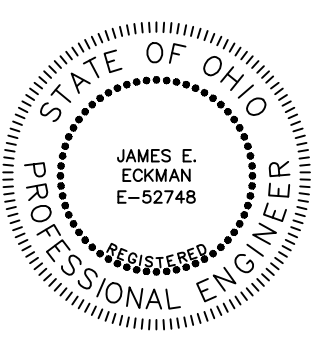
ELECTRIC UTILITY NOTES

- THE ELECTRIC UTILITY IS AES OHIO.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL FINAL REQUIREMENTS WITH THE UTILITY.
- THE UTILITY SHALL PROVIDE THE PAD-MOUNTED TRANSFORMER, PRIMARY CONDUCTORS, METERS, AND CURRENT TRANSFORMERS.
- CONTRACTOR SHALL PROVIDE PRIMARY AND SECONDARY DUCTBANKS, SECONDARY CONDUCTORS, TRANSFORMER PAD, CT CABINET, METER SOCKET, AND METER ASSEMBLIES.



POWER RISER DIAGRAM

N.T.S.



J. E. C. 3/31/23
 SIGNATURE DATE

REVISIONS

NO.	DESCRIPTION
1	BULLETIN 01 - 07/17/2023
2	BULLETIN 03 - 10/16/2023

POWER RISER DIAGRAMS - ELEC.
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TURNING VISIONS INTO REALITY

03/31/2023
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E501
 DRAWING NUMBER

LIGHTING FIXTURE SCHEDULE				
SYMBOL	CATALOG NO.	DESCRIPTION	MOUNTING	LAMP(S)
FL1	X17FA-80	RAB: X17 SERIES FLOODLIGHT, 9-1/2" WIDE x 11" TALL x 3" DEEP, ALUMINUM HOUSING, 10,700 LUMENS, 82 WATTS, FIELD ADJUSTABLE COLOR TEMPERATURE (SET TO 3000K), INTEGRAL PHOTOCELL, WET LOCATION LISTED, BRONZE FINISH, AND (1) MULTI-VOLT LED DRIVER.	CONCRETE BASE. REFER TO DETAIL.	INTEGRAL LED
POLE A	RSX2-P1-40K-R4-MVOLT-SPA-PE-TBD	LITHONIA: RSX SIZE 2 AREA LIGHT, TYPE IV DISTRIBUTION, 4000K, 11,100 LUMENS, 71 WATTS, INTEGRAL PHOTOCELL, WET LOCATION LISTED, AND (1) MULTI-VOLT LED DRIVER. MOUNT TO 20' SQUARE ALUMINUM POLE.	CONCRETE BASE. REFER TO DETAIL.	INTEGRAL LED
POLE B	(2)-RSX2-P1-40K-R4-MVOLT-SPA-PE-TBD	SAME AS POLE A, EXCEPT WITH (2) FIXTURES AT 180 DEGREES.	CONCRETE BASE. REFER TO DETAIL.	INTEGRAL LED
R1	2BLT2-33L-ADSM-MVOLT-GZ10-LP830-MSD7ADCX-(EL14L)	LITHONIA: BLT SERIES 2X2 TROFFER, CURVED CENTER ACRYLIC LENS, 3300 LUMENS, 3000K, 27 WATTS, INTEGRAL PIR OCCUPANCY SENSOR, AND (1) MULTI-VOLT LED DRIVER. WHERE "EM" SUBSCRIPT IS SHOWN, PROVIDE INTEGRAL 1400 LUMEN BATTERY PACK WITH INTEGRAL TEST SWITCH.	CEILING RECESSED	INTEGRAL LED
S1	P7253-0930K9	PROGRESS LIGHTING: ROUND DECORATIVE LIGHT, 14" DIAMETER, 3-3/4" TALL, STEEL BANDS WITH BRUSHED NICKEL FINISH, WHITE ACRYLIC DIFFUSER, 1184 LUMENS, 3000K, 22 WATTS, 120V.	CEILING SURFACE	INTEGRAL LED
S2	SMD6R-6-930-WH	COOPER 6" ROUND SURFACE DOWNLIGHT, POLYCARBONATE FRAME, WHITE ACRYLIC LENS, NON-CONDUCTIVE DEAD-FRONT TRIM, 600 LUMENS, 3000K, 10 WATTS, WHITE FINISH, 120V.	CEILING SURFACE	INTEGRAL LED
S3	CSS-L48-AL03-MVOLT-SWW3-80CRI	LITHONIA: CSS SERIES STRIP FIXTURE, 4' LONG, STEEL HOUSING, FLAT DIFFUSE ACRYLIC LENS, SWITCHABLE LUMENS (3000/4000/5000), SWITCHABLE COLOR TEMPERATURE (3500K/4000K/5000K), 44 WATTS AT HIGHEST OUTPUT, AND (1) MULTI-VOLT LED DRIVER.	CEILING SURFACE	INTEGRAL LED
S4	BLWP4-40L-ADSM-GZ1-LP830	LITHONIA: BLWP SERIES FIXTURE, 4' LONG, STEEL HOUSING, WHITE ACRYLIC LENS, 4000 LUMENS, 3000K, 35 WATTS, AND (1) MULTI-VOLT LED DRIVER (0-10V DIMMING)	CEILING SURFACE	INTEGRAL LED
S5	FEM-L48-4000LM-LPPCL-MD-MVOLT-GZ10-40K-80CRI	LITHONIA: ENCLOSED AND GASKETED INDUSTRIAL FIXTURE, 4' LONG, FIBERGLASS HOUSING, LOW-PROFILE CLEAR POLYCARBONATE LENS, WIDE DISTRIBUTION, 4000 LUMENS, 24 WATTS, 3000K, WET LOCATION LISTED, AND (1) MULTI-VOLT LED DRIVER.	SURFACE. REFER TO FLOOR PLANS.	INTEGRAL LED
W1	P300223-009-30	PROGRESS LIGHTING: 24" CYLINDRICAL VANITY, ALUMINUM ENDCAPS AND BACKPLATE WITH BRUSHED NICKEL FINISH, WHITE ACRYLIC DIFFUSER, 1600 LUMENS, 22 WATTS, 3000K, 120V.	WALL SURFACE ABOVE MIRROR	INTEGRAL LED
W2	BLWP4-40L-PDSMT-GZ1-LP830-MSD7ADCX-DIM50-E10WCP	LITHONIA: BLWP WALL FIXTURE, 4' LONG, STEEL HOUSING, WHITE POLYCARBONATE LENS, 4000 LUMENS, 3000K, 35 WATTS, INTEGRAL PIR OCCUPANCY SENSOR, INTEGRAL 10W BATTERY PACK, AND (1) MULTI-VOLT LED DRIVER. FIXTURE DIMS TO 50% WHEN NO OCCUPANCY IS DETECTED.	WALL SURFACE AT 7' AFF	INTEGRAL LED
W3	WPX2-40K-MVOLT-PE-TBD	LITHONIA: WPX SIZE 2 WALLPACK, 12" WIDE x 9" TALL x 4.1" DEEP, ALUMINUM HOUSING, 6000 LUMENS, 47 WATTS, 4000K, INTEGRAL PHOTOCELL, WET LOCATION LISTED, AND (1) MULTI-VOLT LED DRIVER.	WALL SURFACE AT 9' AFG	INTEGRAL LED
W4	FEM-L48-3000LM-LPPFL-MD-MVOLT-GZ10-40K-80CRI-E10WMPG	LITHONIA: ENCLOSED AND GASKETED INDUSTRIAL FIXTURE, 4' LONG, FIBERGLASS HOUSING, LOW-PROFILE FROSTED POLYCARBONATE LENS, 3000 LUMENS, 18 WATTS, 4000K, WET LOCATION LISTED, INTEGRAL BATTERY PACK, AND (1) MULTI-VOLT LED DRIVER.	WALL SURFACE	INTEGRAL LED
W5	P7088-0930K9	PROGRESS LIGHTING: WALL SCONCE, CURVED WHITE ACRYLIC LENS WITH BRUSHED NICKEL BARS, 611 LUMENS, 17 WATTS, 3000K, 120V.	WALL SURFACE	INTEGRAL LED
W6	S175-RO6L-HFCOXX18-TBD-M-00-0-840-00	ELLIPTIPAR: S175 SERIES LINEAR FIXTURE, 6' LONG, ALUMINUM HOUSING, ASYMMETRIC DISTRIBUTION, ADJUSTABLE AIMING, 4588 LUMENS, 48 WATTS, WET LOCATION LISTED, AND (1) MULTI-VOLT LED DRIVER. MOUNT TO 18" CANTILEVER ARM AND AIM TO ILLUMINATE LETTERING. PROVIDE ALL REQUIRED JOINERS AND ENDCAPS FOR MULTIPLE ADJACENT FIXTURES.	WALL SURFACE ABOVE LETTERING	INTEGRAL LED
W7	P710118-009	PROGRESS LIGHTING: DECORATIVE WALL SCONCE, CURVED WHITE GLASS LENS WITH BRUSHED NICKEL BARS, (2) MEDIUM-BASE E26 LAMP SOCKETS, 120V. PROVIDE WITH (2) 3500K LED A19 BULBS (12.5 WATT MAX PER BULB).	WALL SURFACE	INTEGRAL LED
ELM4L	ELM4L	LITHONIA: QUANTUM EMERGENCY LIGHT WITH (2) ADJUSTABLE LED HEADS, WHITE THERMOPLASTIC HOUSING, INTEGRAL NICAD BATTERY, AND (1) MULTI-VOLT LED DRIVER.	WALL SURFACE AT 7' AFF	INTEGRAL LED
LHQM-LED-R-HO-RO	LHQM-LED-R-HO-RO	LITHONIA: QUANTUM EXIT SIGN, WHITE THERMOPLASTIC HOUSING, RED LETTERS, INTEGRAL HIGH-OUTPUT NICAD BATTERY SUITABLE FOR CONNECTION TO EMERGENCY HEAD, AND (1) MULTI-VOLT LED DRIVER.	WALL OR CEILING SURFACE	INTEGRAL LED
LQM-S-W-3-R-MVOLT	LQM-S-W-3-R-MVOLT	LITHONIA: QUANTUM EXIT SIGN, WHITE THERMOPLASTIC HOUSING, RED LETTERS, INTEGRAL NICAD BATTERY, AND (1) MULTI-VOLT LED DRIVER.	WALL OR CEILING SURFACE	INTEGRAL LED
ELMRW-LP220L-TBD-T	ELMRW-LP220L-TBD-T	LITHONIA: QUANTUM EMERGENCY REMOTE LIGHT WITH (2) ADJUSTABLE LED HEADS, ALUMINUM HOUSING. CONNECT TO EXIT SIGN PER DETAIL. COORDINATE FINISH WITH ARCHITECT.	WALL SURFACE ABOVE DOOR	INTEGRAL LED

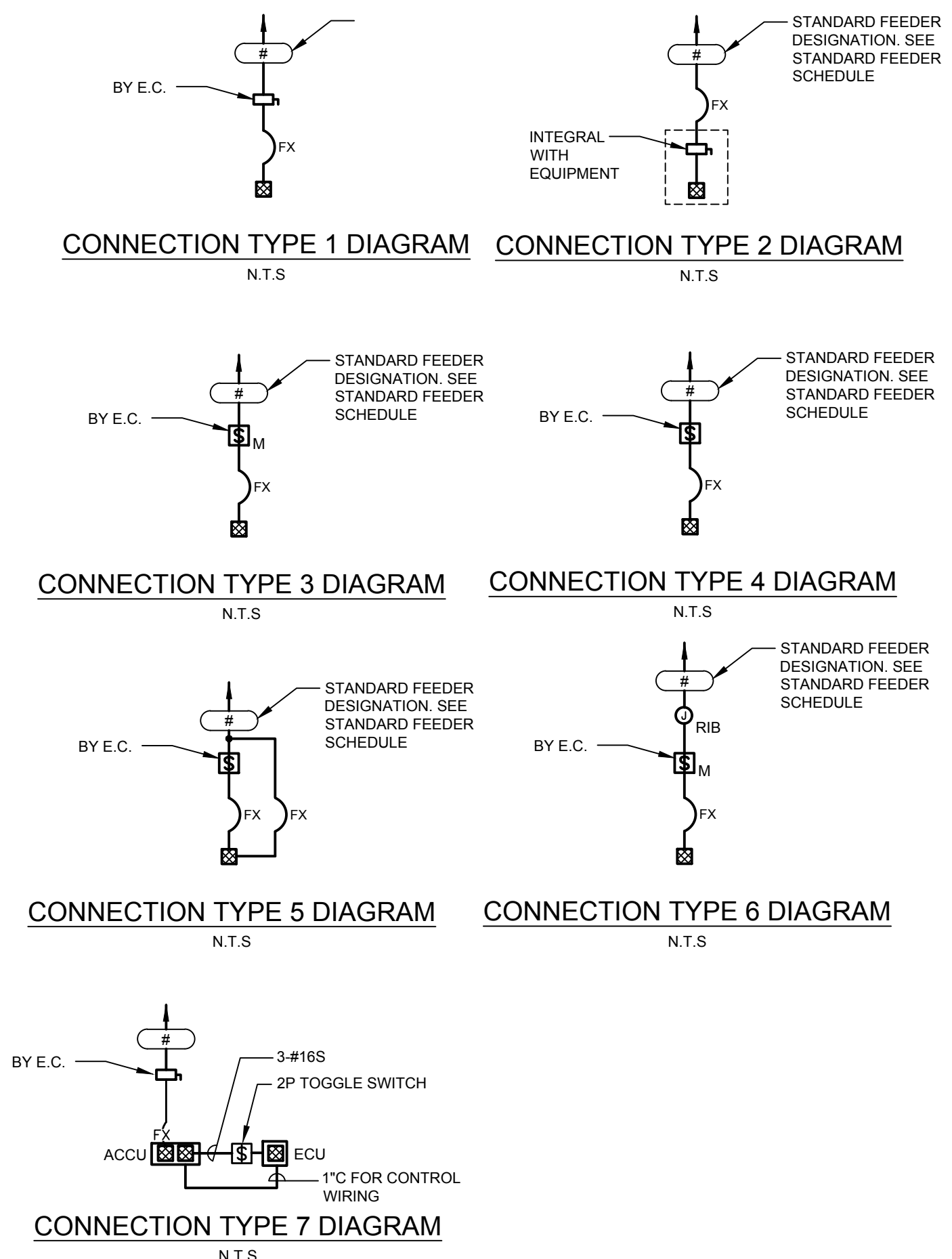
ENGINEER APPROVED EQUIVALENT FIXTURES BY THE FOLLOWING MANUFACTURERS ARE ACCEPTABLE:

SYMBOL	MANUFACTURER
FL1	ASD LIGHTING, COOPER, ILP
POLE A,B	LSI, EATON, HUBBELL, COOPER, SIGNIFY, CURRENT
R1	H.E. WILLIAMS, COOPER, EATON, HUBBELL, SIGNIFY
S1	SUNPARK, SUNLITE, LUMENCIA
S2	AFX, JUNO, ARTIKA PRO, LIGHTOLIER, GM LIGHTING
S3	COOPER, H.E. WILLIAMS, SIGNIFY, HUBBELL, EATON, CURRENT
S4	COOPER, H.E. WILLIAMS, SIGNIFY, HUBBELL, EATON, CURRENT
S5	COOPER, H.E. WILLIAMS, SIGNIFY, HUBBELL, EATON, CURRENT
W1	SUNPARK, ARTIKA PRO, LUMENCIA
W2	COOPER, PARAMOUNT, CURRENT
W3	PERFORMANCE IN LIGHTING, SIGNIFY, CURRENT
W4	COOPER, H.E. WILLIAMS, SIGNIFY, HUBBELL, EATON, CURRENT
W5,W7	AFX, SUNLITE, LUMENCIA
W6	PROVIDE SUBSTITUTION CUTSHEET TO ARCHITECT FOR APPROVAL.
EXITRONIX	EXITRONIX, EMERGI-LITE, DUAL-LITE, SURE-LITES

LIGHTING FIXTURE NOTES:

- CONFIRM ALL FINISH COLORS WITH ARCHITECT.
- "NL" SUBSCRIPT INDICATES THAT FIXTURE IS CONNECTED TO AN UNSWITCHED CIRCUIT FOR "NIGHT LIGHT" ILLUMINATION.
- "EM" SUBSCRIPT INDICATES THAT FIXTURE CONTAINS AN INTEGRAL BATTERY PACK FOR EMERGENCY ILLUMINATION.

MECHANICAL EQUIPMENT SCHEDULE														
MECHANICAL EQUIPMENT DESIGNATION	DESCRIPTION	LOCATION	APPARENT POWER	HP	VOLTAGE	PHASE	WIRE/CONDUIT (NOTE 1)	DISCONNECT DESIGNATION	DISCONNECT DESCRIPTION (NOTE 2)	DISCONNECT LOCATION	STARTER DESCRIPTION (NOTE 3)	CONNECTION TYPE (NOTE 4)	REMARKS	
CU-1	CONDENSING UNIT	EXTERIOR	3952	-	208	1	35A	DS-CU-1	60A/240V/2P/35AF/NEMA 3R	ADJACENT TO UNIT	INTEGRAL	1	29.1 MCA, 35A MOP	
CU-2	CONDENSING UNIT	EXTERIOR	3952	-	208	1	35A	DS-CU-2	60A/240V/2P/35AF/NEMA 3R	ADJACENT TO UNIT	INTEGRAL	1	29.1 MCA, 35A MOP	
CU-3	CONDENSING UNIT	EXTERIOR	3952	-	208	1	35A	DS-CU-3	60A/240V/2P/35AF/NEMA 3R	ADJACENT TO UNIT	INTEGRAL	1	29.1 MCA, 35A MOP	
CU-4	CONDENSING UNIT	EXTERIOR	3952	-	208	1	35A	DS-CU-4	60A/240V/2P/35AF/NEMA 3R	ADJACENT TO UNIT	INTEGRAL	1	29.1 MCA, 35A MOP	
DWH-1	GAS WATER HEATER	MECH ROOM	600	-	120	1	20A	DS-DWH-1	TOGGLE SWITCH DISCONNECT	ADJACENT TO UNIT	INTEGRAL	4		
DWH-2	GAS WATER HEATER	MECH ROOM	600	-	120	1	20A	DS-DWH-2	TOGGLE SWITCH DISCONNECT	ADJACENT TO UNIT	INTEGRAL	4		
ECH-1	ELECTRIC CABINET HEATER	VARIOUS	4800	-	208	1	30A	-	INTEGRAL	-	INTEGRAL	2		
EWH-1	ELECTRIC WALL HEATER	VARIOUS	6000	-	208	1	40A	-	INTEGRAL	-	INTEGRAL	2		
EF-1	INLINE EXHAUST FAN	VARIOUS	20	-	120	1	20A	-	TOGGLE SWITCH	ON WALL NEAR UNIT	-	5	REFER TO FLOOR PLANS FOR CONTROL	
EF-2	INLINE EXHAUST FAN	VARIOUS	24	-	120	1	20A	-	TOGGLE SWITCH IN APARTMENTS. TIMER SWITCH IN PUBLIC RESTROOMS	ON WALL NEAR UNIT	-	4	REFER TO FLOOR PLANS FOR CONTROL	
EF-3	INLINE EXHAUST FAN	VARIOUS	64	-	120	1	20A	DS-EF-3	MANUAL MOTOR STARTER	ON WALL NEAR UNIT	-	3	FAN SHALL RUN CONTINUOUSLY	
EF-4	INLINE EXHAUST FAN	VARIOUS	81	-	120	1	20A	DS-EF-4	MANUAL MOTOR STARTER	ON WALL NEAR UNIT	-	3	FAN SHALL RUN CONTINUOUSLY	
EF-5	INLINE EXHAUST FAN	VARIOUS	12	-	120	1	20A	DS-EF-5	MANUAL MOTOR STARTER	ON WALL NEAR UNIT	-	3	FAN SHALL RUN CONTINUOUSLY	
HP-1	HEAT PUMP	1ST FLOOR	20000	-	208	1	125A	-	INTEGRAL	-	INTEGRAL	2		
HP-2	HEAT PUMP	1ST FLOOR	20000	-	208	1	125A	-	INTEGRAL	-	INTEGRAL	2		
HP-3	HEAT PUMP	2ND FLOOR	10000	-	208	1	70A	-	INTEGRAL	-	INTEGRAL	2		
HP-4	HEAT PUMP	3RD FLOOR	10000	-	208	1	70A	-	INTEGRAL	-	INTEGRAL	2		
RDHWP	DOMESTIC WATER RECIRCULATION PUMP	1ST FLOOR	1176	1/2	120	1	20A	-	MANUAL MOTOR STARTER	ADJACENT TO UNIT	SEE REMARKS	6	PROVIDE WITH RELAY-IN-A-BOX	
VRP-1	VERTICAL HEAT PUMP	1-BED UNITS	6743	-	208	2	45A	DS-VRP-1	60A/240V/2P/45AF/NEMA 1	ADJACENT TO UNIT	INTEGRAL	1	41.8 MCA, 45A MOP	
VRP-2	VERTICAL HEAT PUMP	2-BED UNITS	7862	-	208	2	50A	DS-VRP-2	60A/240V/2P/45AF/NEMA 1	ADJACENT TO UNIT	INTEGRAL	1	49.2 MCA, 50A MOP	
VRP-3A	VERTICAL HEAT PUMP - CIRCUIT #1	3-BED UNITS	8186	-	208	2	50A	DS-VRP-3A	60A/240V/2P/50AF/NEMA 1	ADJACENT TO UNIT	INTEGRAL	1	49.2 MCA, 50A MOP	
VRP-3B	VERTICAL HEAT PUMP - CIRCUIT #2	3-BED UNITS	3993	-	208	2	25A	DS-VRP-3B	30A/240V/2P/24AF/NEMA 1	ADJACENT TO UNIT	INTEGRAL	1	24 MCA, 25A MOP	



PANELBOARD SCHEDULE									
PANEL: H1A		LOCATION: 1ST FLOOR		MOUNTING: SURFACE					
SERVICE: 208/120 VOLTS,		3 PHASE,		4 WIRE,		60 HZ			
MAINS 150 AMPS,		X LUGS,		----- CCT. BKR.					
FED FROM HDP		FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS							
LOAD	DESCRIPTION	CCT. BKR.	CCT. NO.	CCT. NO.	CCT. BKR.	DESCRIPTION	LOAD		
R-900	RECEPT. - HALLWAYS	20/1	1	2	20/1	RECEPT. - MECH/WATER SERVICE ROOM, EXTERIOR	R-900		
H-4800	CABINET HEATER - MAIN VESTIBULE	30/2	3	4	20/1	RECEPT. - MAIN LOBBY	R-540		
			5	6	20/1	PARKING LOT LIGHTING	L-639		
H-3952	CU-2	35/2	7	8	20/1	MONUMENT SIGN LIGHTING	L-164		
			9	10	20/1	LIGHTING - MAINTENANCE ROOM	L-544		
M-200	AREA OF RESCUE SYSTEM	20/1	11	12	20/1	LIGHTING - SOUTH STAIRWELL	L-292		
-	SPARE	20/1	13	14	20/1	FIRE ALARM CONTROL PANEL	M-200		
H-4800	CABINET HEATER - TRASH	30/2	15	16	20/1	EF-4 - MAINTENANCE	H-81		
			17	18					
H-6000	WALL HEATER - STAIRWELL	40/2	19	20	20/3	TRASH COMPACTOR	M-3960		
			21	22					
H-6000	WALL HEATER - MAINTENANCE	40/2	23	24	30/1	DRY-PIPE SUPPRESSION SYSTEM	M-500		
P-600	DWH-1	20/1	27	28	20/1	DOMESTIC WATER RECIRC PUMP	P-1176		
P-600	DWH-2	20/1	29	30	20/1	SPARE	-		
P-50	MASTER MIXING VALVE	20/1	31	32	20/1	SPARE	-		
-	SPARE	20/1	33	34	20/1	SPARE	-		
-	SPARE	20/1	35	36	20/1	SPARE	-		
-	SPARE	20/1	37	38	20/1	SPARE	-		
-	SPARE	20/1	39	40	20/1	SPARE	-		
-	SPARE	20/1	41	42	20/1	SPARE	-		

REMARKS:
 1. ALL NEW CIRCUIT BREAKERS TO BE 22,000 AIC FOR 208 OR 240V SYSTEMS UNLESS OTHERWISE NOTED.
 R - RECEPTACLES
 L - LIGHTING
 P - PLUMBING
 H - HVAC
 K - KITCHEN
 M - MISCELLANEOUS
 F - FUTURE

STATE OF OHIO
 JAMES E. ECKMAN
 E-92748
 PROFESSIONAL ENGINEER

J. E. C. 3/31/23
 SIGNATURE DATE

REVISIONS

1	BULLETIN 01 - 07/17/2023
2	BULLETIN 02 - 09/19/2023
3	BULLETIN 03 - 10/16/2023

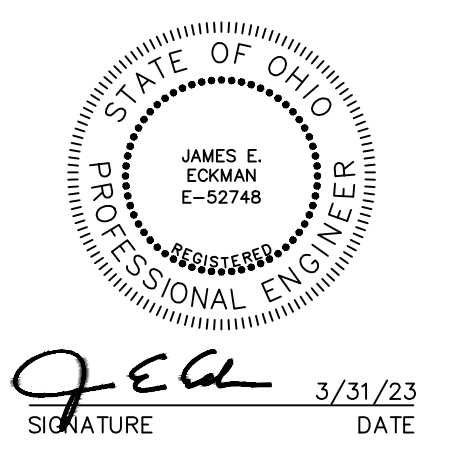
SCHEDULES - ELECTRICAL
 GERMANTOWN CROSSING
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TURNING VISIONS INTO REALITY

03/31/2023
 DATE
 82A21
 PROJECT NUMBER
E601
 DRAWING NUMBER



REVISIONS

1	BULLETIN 01 - 07/17/2023
2	BULLETIN 03 - 10/16/2023

SCHEDULES - ELECTRICAL
GERMANTOWN CROSSING
DAYTON OHIO



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E602
 DRAWING NUMBER

PANELBOARD SCHEDULE

PANEL: H2 LOCATION: 2ND FLOOR MOUNTING: FLUSH
 SERVICE: 208/120 VOLTS, 3 PHASE, 4 WIRE, 60 HZ
 MAINS 150 AMPS, X LUGS, ----- CCT. BKR.
 FED FROM HDP FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS

LOAD	DESCRIPTION	CCT. BKR.	CCT. NO.	CCT. NO.	CCT. BKR.	DESCRIPTION	LOAD
M-5000	RECEPT. - DRYER	30/2	1	2	30/2	RECEPT. - DRYER	M-5000
M-5000	RECEPT. - DRYER	30/2	3	4	30/2	RECEPT. - DRYER	M-5000
M-5000	RECEPT. - DRYER	30/2	5	6	30/2	RECEPT. - DRYER	M-5000
M-1000	RECEPT. - WASHER	20/1	9	10	20/1	RECEPT. - WASHER	M-1000
M-1000	RECEPT. - WASHER	20/1	11	12	20/1	RECEPT. - WASHER	M-1000
R-1080	RECEPT. - COMPUTERS	20/1	13	14	20/1	RECEPT. - LAUNDRY	R-540
R-360	RECEPT. - DATA CLOSET	20/1	15	16	20/1	RECEPT. - HALLWAYS	R-900
R-360	RECEPT. - DATA CLOSET	20/1	17	18	20/1	RECEPT. - HALLWAYS	R-720
H-10000	HP-3	70/2	19	20	20/1	RECEPT. - HALLWAYS	R-900
H-4800	CABINET HEATER - TRASH	30/2	23	24	20/1	LIGHTING - NORTH CORRIDOR, LAUNDRY	L-914
			25	26	20/1	LIGHTING - SOUTH CORRIDOR	L-454
			27	28	20/1	EF-5 - WEST TRASH ROOM	H-12
			29	30	20/1	EF-5 - EAST TRASH ROOM	H-12
			31	32	20/1	SPARE	
			32	33	20/1	SPARE	
			33	34	20/1	SPARE	
			34	35	20/1	SPARE	
			35	36	20/1	SPARE	
			36	37	20/1	SPARE	
			37	38	20/1	SPARE	
			38	39	20/1	SPARE	
			39	40	20/1	SPARE	
			40	41	20/1	SPARE	
			41	42	20/1	SPARE	

REMARKS:
 1. ALL NEW CIRCUIT BREAKERS TO BE 22,000 AIC FOR 208 OR 240V SYSTEMS UNLESS OTHERWISE NOTED.
 2. PROVIDE SUB-FEED OR FEED-THRU LUGS TO SERVE SECTION 2.

LOAD LEGEND:
 R - RECEPTACLES K - KITCHEN
 L - LIGHTING M - MISCELLANEOUS
 P - PLUMBING F - FUTURE
 H - HVAC

PANELBOARD SCHEDULE

PANEL: H1B (SECTION 2) LOCATION: 1ST FLOOR MOUNTING: SURFACE
 SERVICE: 208/120 VOLTS, 3 PHASE, 4 WIRE, 60 HZ
 MAINS 225 AMPS, X LUGS, ----- CCT. BKR.
 FED FROM H1B (SECTION 1) FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS

LOAD	DESCRIPTION	CCT. BKR.	CCT. NO.	CCT. NO.	CCT. BKR.	DESCRIPTION	LOAD
L-825	LIGHTING - WEST CORRIDOR	20/1	43	44	20/1	RECEPT. - NORTH ENTRANCE, RESTROOMS	R-540
L-352	LIGHTING - MAILROOM, MECHANICAL CORRIDOR, RESTROOMS	20/1	45	46	20/1	LIGHTING - OFFICES, LOBBY	L-412
L-307	LIGHTING - COMMUNITY ROOM	20/1	47	48	20/1	LIGHTING - FRONT CANOPY	L-66
L-413	LIGHTING - SOUTH CORRIDOR	20/1	49	50	20/1	LIGHTING - COMM. ROOM CANOPY, BUILDING SPONGE, TOWER	L-800
L-292	LIGHTING - WEST STAIRWELL	20/1	51	52	40/2	WALL HEATER - STAIRWELL	H-6000
H-6000	WALL HEATER - TRASH	40/2	55	56	30/2	CABINET HEATER - TRASH COMPACTOR	H-4800
H-64	EF-3 - TRASH	20/1	57	58	20/3	TRASH COMPACTOR	M-3960
			59	60			
			61	62			
			63	64			
			65	66	20/1	SPARE	
			67	68	20/1	SPARE	
			69	70	20/1	SPARE	
			71	72	20/1	SPARE	
			73	74	20/1	SPARE	
			75	76	20/1	SPARE	
			77	78	20/1	SPARE	
			79	80	20/1	SPARE	
			81	82	20/1	SPARE	
			83	84	20/1	SPARE	

REMARKS:
 1. ALL NEW CIRCUIT BREAKERS TO BE 22,000 AIC FOR 208 OR 240V SYSTEMS UNLESS OTHERWISE NOTED.

LOAD LEGEND:
 R - RECEPTACLES K - KITCHEN
 L - LIGHTING M - MISCELLANEOUS
 P - PLUMBING F - FUTURE
 H - HVAC

PANELBOARD SCHEDULE

PANEL: H1B (SECTION 1) LOCATION: 1ST FLOOR MOUNTING: SURFACE
 SERVICE: 208/120 VOLTS, 3 PHASE, 4 WIRE, 60 HZ
 MAINS 225 AMPS, X LUGS, ----- CCT. BKR.
 FED FROM HDP FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS

LOAD	DESCRIPTION	CCT. BKR.	CCT. NO.	CCT. NO.	CCT. BKR.	DESCRIPTION	LOAD
R-360	RECEPT. - SECURITY RACK	20/1	1	2	20/1	SPARE	
L-200	ELEVATOR CAB LIGHTING	20/1	3	4	20/1	RECEPT. - ELEVATOR PIT	R-180
R-720	RECEPT. - OFFICE C116	20/1	5	6	20/1	RECEPT. - OFFICE C113	R-720
R-720	RECEPT. - CONFERENCE C118	20/1	7	8	20/1	RECEPT. - OFFICE C115 / LOBBY	R-720
			9	10	20/1	RECEPT. - OFFICE C115 COPIER	R-1000
L-38	LIGHTING - ELEVATOR PIT	20/1	11	12	20/1	RECEPT. - HALLWAYS	R-1080
R-720	RECEPT. - COMMUNITY ROOM, EXTERIOR	20/1	13	14	20/1	RECEPT. - HALLWAYS	R-900
R-720	RECEPT. - COMMUNITY ROOM	20/1	15	16	20/1	RECEPT. - KITCHEN	R-360
R-720	RECEPT. - COMMUNITY ROOM, RESTROOMS	20/1	17	18	20/1	RECEPT. - KITCHEN	R-540
			19	20	20/1	RECEPT. - KITCHEN REFRIGERATOR	R-1000
			21	22	20/1	RECEPT. - DATA CLOSET	R-360
H-4800	CABINET HEATER - COMMUNITY ROOM	30/2	23	24	20/1	RECEPT. - DATA CLOSET	R-360
			25	26	20/1	SPARE	
H-4800	CABINET HEATER - WEST ENTRANCE	30/2	27	28	20/1	SPARE	
			29	30	20/1	SPARE	
H-3952	CU-1	35/2	31	32	20/1	SPARE	
			33	34	20/1	SPARE	
H-3952	CU-3	35/2	35	36	20/1	SPARE	
			37	38	30/2	CABINET HEATER - NORTH ENTRANCE	H-4800
H-3952	CU-4	35/2	39	40	20/1	RECEPT. - DRINKING FOUNTAIN, NORTH ENTRANCE	R-600
			41	42	20/1		

REMARKS:
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LOAD LEGEND:
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 P - PLUMBING F - FUTURE
 H - HVAC

STANDARD FEEDER SCHEDULE

FEEDER NO.	WIRE SIZE AMPS NOMINAL FEEDER SIZE (AMPS)	CONDUCTOR SIZE (AWG)				CONDUIT SIZE					
		PHASE/NEUTRAL		GROUND		A		B		C	
		CU	AL	CU	AL	2C		3C		4C	
		W/G		W/G		W/G		W/G		W/G	
15	15	12	-	12	-	3/4"	-	3/4"	-	3/4"	-
20	20	12	-	12	-	3/4"	-	3/4"	-	3/4"	-
25	25	10	-	10	-	3/4"	-	3/4"	-	3/4"	-
30	30	10	-	10	-	3/4"	-	3/4"	-	3/4"	-
35	35	8	-	10	-	3/4"	-	3/4"	-	3/4"	-
40	40	8	-	10	-	3/4"	-	3/4"	-	3/4"	-
45	45	8	-	10	-	3/4"	-	3/4"	-	3/4"	-
50	50	8	-	10	-	3/4"	-	3/4"	-	3/4"	-
60	60	6	-	10	-	3/4"	-	3/4"	-	1"	-
70	70	4	-	8	-	1"	-	1"	-	1-1/2"	-
80	80	4	-	8	-	1"	-	1"	-	1-1/2"	-
90	90	3	-	8	-	1"	-	1-1/2"	-	1-1/2"	-
100	100	2	1	8	6	1"	1-1/4"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
110	110	2	1/0	6	4	1"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
125	125	1	2/0	6	4	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"
150	150	1/0	3/0	6	4	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"
175	175	2/0	4/0	6	4	1-1/2"	1-1/2"	2"	2"	2"	2"
200	200	3/0	250	6	4	1-1/2"	2"	2"	2"	2"	2-1/2"
225	225	4/0	350	4	2	2"	2"	2"	2-1/2"	2-1/2"	3"
250	250	250	350	4	2	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"
300	300	350	500	4	2	2-1/2"	2-1/2"	3"	3"	3"	3-1/2"
350	350	500	4/0	3	1	3"	2 PARALLEL RUNS OF 2"	3"	2 PARALLEL RUNS OF 2"	3"	2 PARALLEL RUNS OF 2"
400	400	500	250	3	1	3"	2 PARALLEL RUNS OF 2"	3"	2 PARALLEL RUNS OF 2-1/2"	3"	2 PARALLEL RUNS OF 3"
450	450	4/0	350	2	1/0	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2"	2 PARALLEL RUNS OF 2"	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2-1/2"
500	500	250	350	2	1/0	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2"	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2-1/2"
600	600	350	500	1	2/0	2 PARALLEL RUNS OF 3"	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 3"	2 PARALLEL RUNS OF 3"	2 PARALLEL RUNS OF 3"	2 PARALLEL RUNS OF 3-1/2"
700	700	500	350	1/0	3/0	2 PARALLEL RUNS OF 3"	3 PARALLEL RUNS OF 2"	2 PARALLEL RUNS OF 3"	3 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 3"	3 PARALLEL RUNS OF 2-1/2"
800	800	350	500	1/0	3/0	3 PARALLEL RUNS OF 3"	3 PARALLEL RUNS OF 2-1/2"	3 PARALLEL RUNS OF 2-1/2"	3 PARALLEL RUNS OF 3"	3 PARALLEL RUNS OF 3"	3 PARALLEL RUNS OF 3-1/2"
1000	1000	250	350	2/0	4/0	4 PARALLEL RUNS OF 2-1/2"	4 PARALLEL RUNS OF 2"	4 PARALLEL RUNS OF 2-1/2"	4 PARALLEL RUNS OF 2-1/2"	4 PARALLEL RUNS OF 2-1/2"	4 PARALLEL RUNS OF 2-1/2"

NOTES:
 1. ALL FEEDERS TO BE COPPER UNLESS SPECIFICALLY NOTED OTHERWISE. ONE-LINE DIAGRAM INDICATES FEEDER PERMITTED TO BE ALUMINUM CONDUCTORS BY "AL" DESIGNATION.

PANELBOARD SCHEDULE

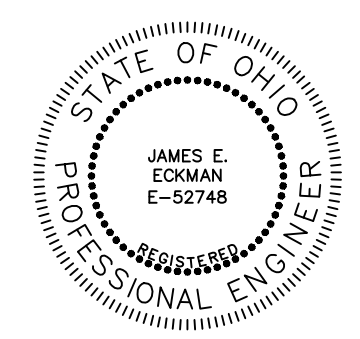
PANEL: H3 LOCATION: 3RD FLOOR MOUNTING: FLUSH
 SERVICE: 208/120 VOLTS, 3 PHASE, 4 WIRE, 60 HZ
 MAINS 150 AMPS, X LUGS, ----- CCT. BKR.
 FED FROM HDP FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS

LOAD	DESCRIPTION	CCT. BKR.	CCT. NO.	CCT. NO.	CCT. BKR.	DESCRIPTION	LOAD
R-900	RECEPT. - HALLWAYS	20/1	1	2	20/1	RECEPT. - DATA CLOSET	R-360
R-720	RECEPT. - HALLWAYS	20/1	3	4	20/1	RECEPT. - DATA CLOSET	R-360
R-900	RECEPT. - HALLWAYS	20/1	5	6	70/2	HP-4	H-10000
L-919	LIGHTING - NORTH CORRIDOR, FITNESS	20/1	7	8			
L-449	LIGHTING - SOUTH CORRIDOR	20/1	9	10	20/1	RECEPT. - FITNESS	R-360
H-4800	CABINET HEATER - TRASH	30/2	11	12	20/1	RECEPT. - FITNESS TREADMILL	R-180
			13	14	20/1	RECEPT. - FITNESS	R-360
L-328	TOWER LIGHTING	20/1	15	16	20/1	RECEPT. - FITNESS	R-540
			17	18	20/1	EF-5 - WEST TRASH ROOM	H-12
			19	20	20/1	EF-5 - EAST TRASH ROOM	H-12
			21	22	20/1	RECEPT. - FITNESS TREADMILL	R-180
			23	24	20/1	RECEPT. - FITNESS TREADMILL	R-180
			25	26	20/1	SPARE	
			27	28	20/1	SPARE	
			29	30	20/1	SPARE	
			31	32	20/1	SPARE	
			33	34	20/1	SPARE	
			35	36	20/1	SPARE	
			37	38	20/1	SPARE	
			39	40	20/1	SPARE	
			41	42	20/1	SPARE	

REMARKS:
 1. ALL NEW CIRCUIT BREAKERS TO BE 22,000 AIC FOR 208 OR 240V SYSTEMS UNLESS OTHERWISE NOTED.

LOAD LEGEND:
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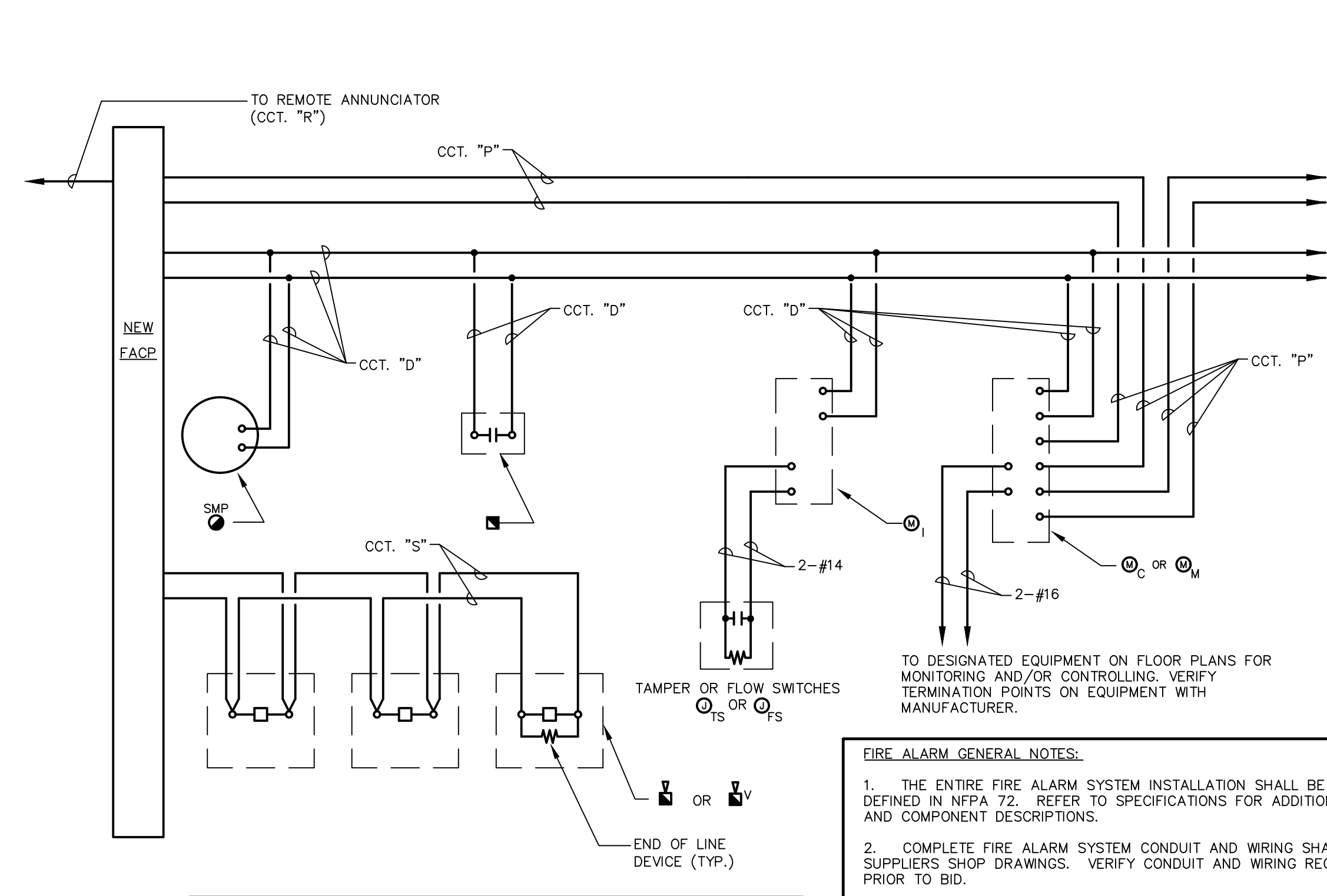
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3/31/23
DATE

REVISIONS

1	BULLETIN 02 - 09/19/2023
2	BULLETIN 03 - 10/16/2023

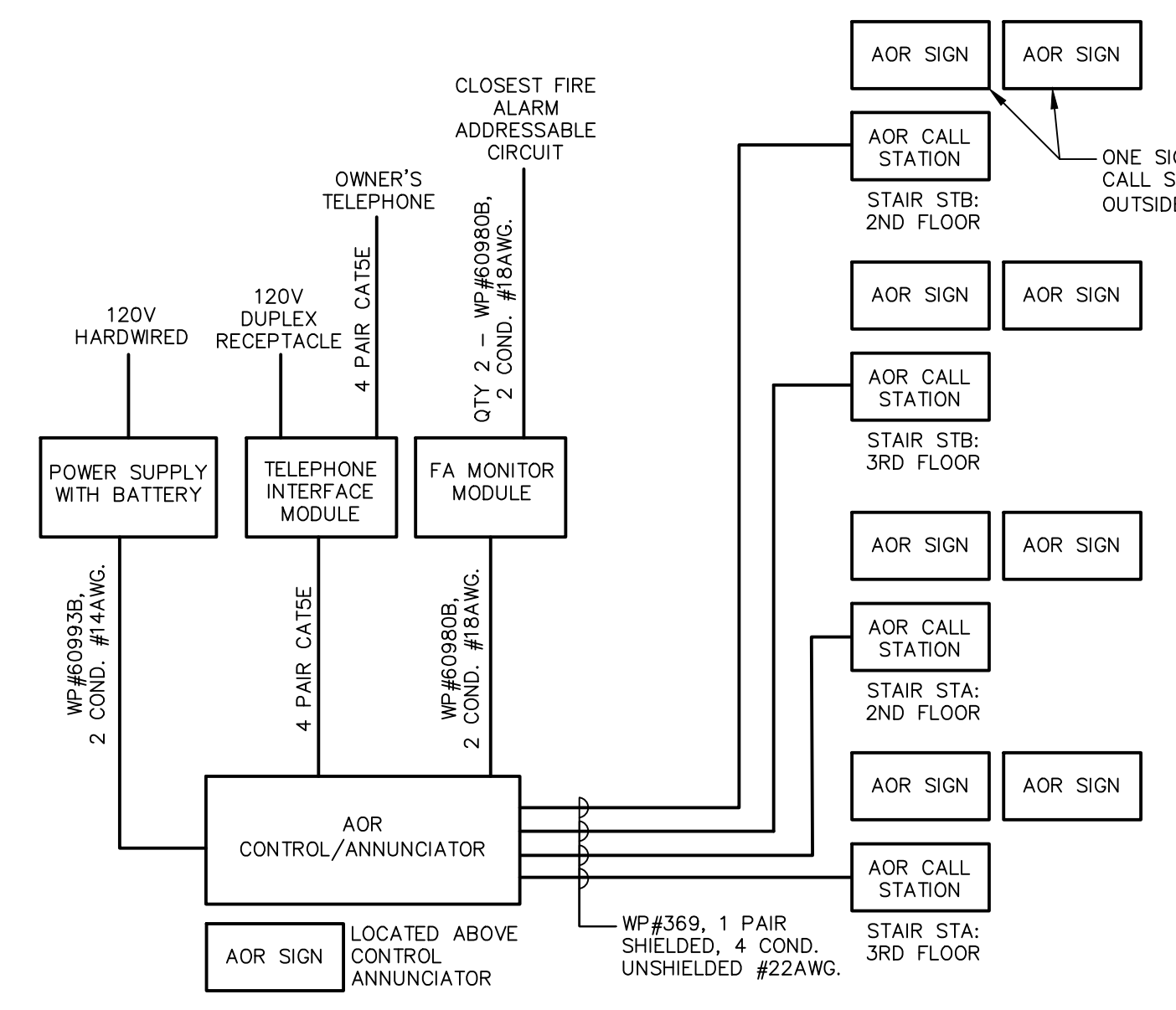


FIRE ALARM CABLE LEGEND

D - DATA - 2/C #18 TWISTED SHIELDED PAIR (WEST PENN #975)
P - POWER - 2/C #14 (WEST PENN #972)
S - SIGNAL - 2/C #14 (WEST PENN #972)
R - REMOTE - 2/C #18 TWISTED SHIELDED PAIR AND 2/C #14 (WEST PENN #975 AND #972 RESPECTIVELY)

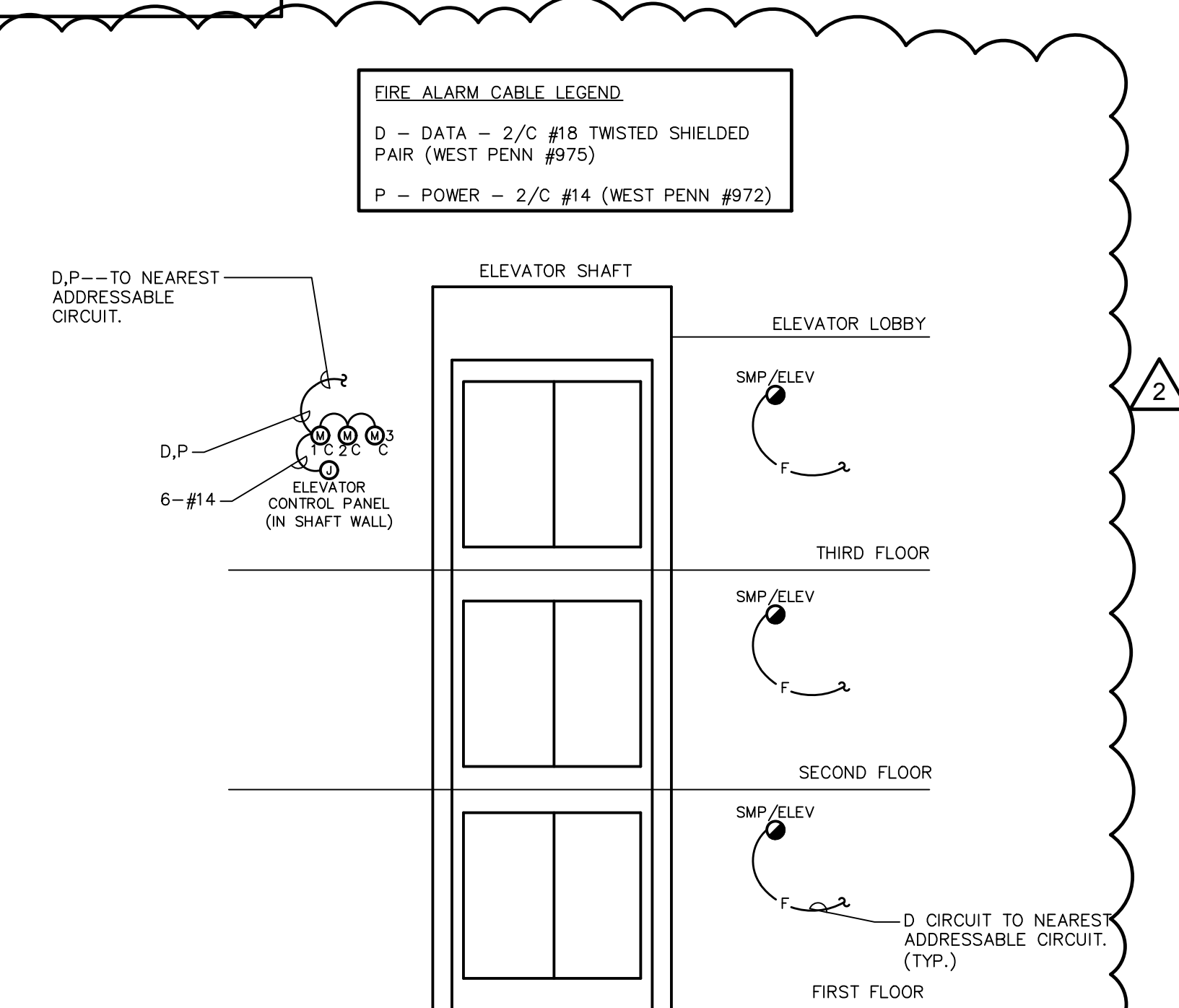
- FIRE ALARM GENERAL NOTES:**
- THE ENTIRE FIRE ALARM SYSTEM INSTALLATION SHALL BE A CLASS B SYSTEM AS DEFINED IN NFPA 72. REFER TO SPECIFICATIONS FOR ADDITIONAL SYSTEM REQUIREMENTS, AND COMPONENT DESCRIPTIONS.
 - COMPLETE FIRE ALARM SYSTEM CONDUIT AND WIRING SHALL BE INSTALLED PER SUPPLIERS SHOP DRAWINGS. VERIFY CONDUIT AND WIRING REQUIREMENTS WITH SUPPLIER PRIOR TO BID.
 - SEE FLOOR PLAN DRAWINGS FOR FIRE ALARM SYSTEM DEVICE QUANTITIES AND LOCATION.
 - ALL FIRE ALARM WIRING SHALL BE PLENUM-RATED. WIRING SHALL BE INSTALLED ON J-HOOKS ABOVE ACCESSIBLE CEILINGS. WIRING SHALL BE INSTALLED IN 3/4" (MINIMUM) CONDUIT ABOVE INACCESSIBLE CEILINGS AND IN EXPOSED LOCATIONS.

FIRE ALARM WIRING DIAGRAM
N.T.S.



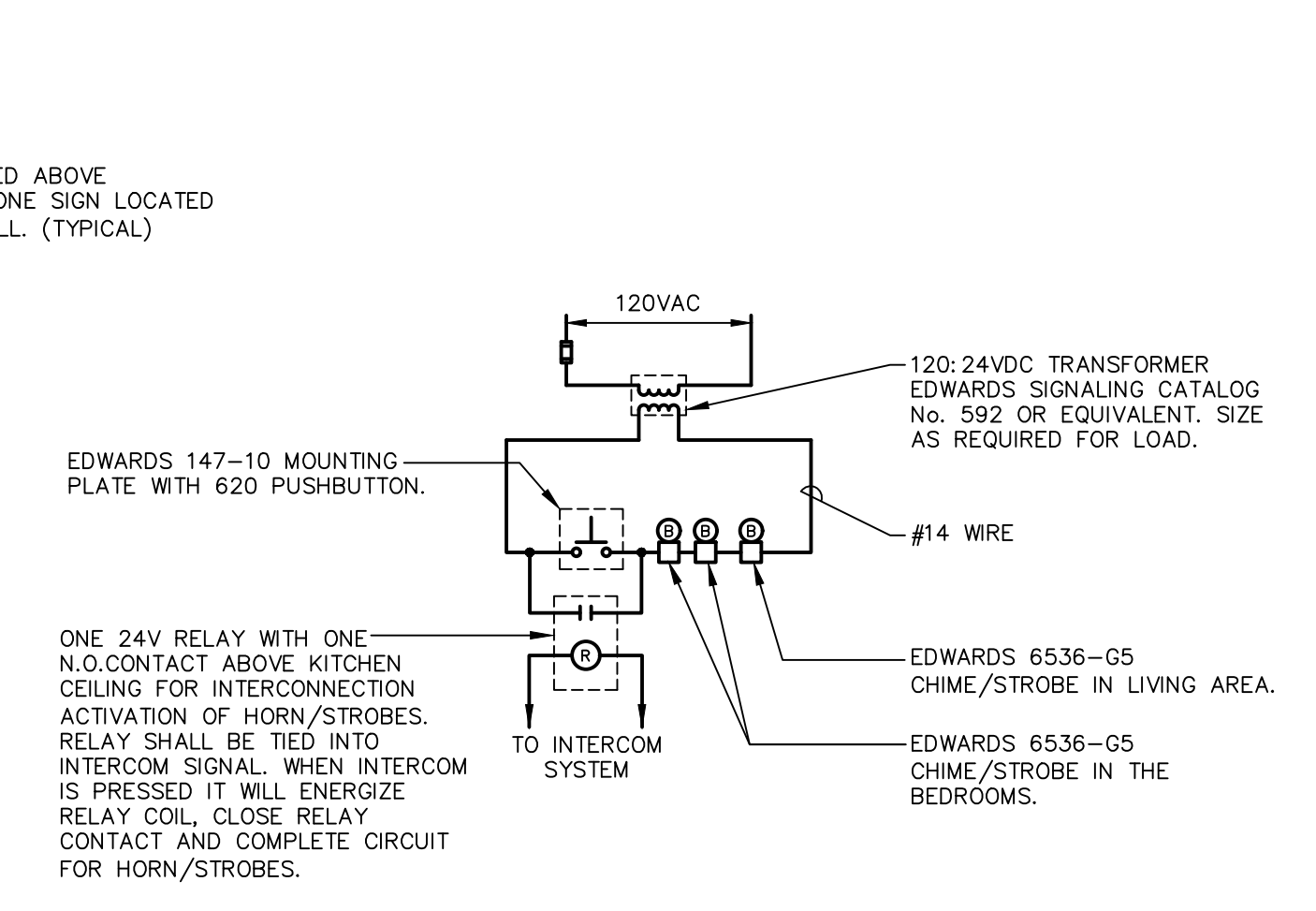
- NOTES:**
- PROVIDE CORNELL COMMUNICATION 4200 SYSTEM OR EQUAL.
 - CONFIRM ALL LOCATIONS OF PANELS AND SIGNAGE WITH THE ARCHITECT PRIOR TO INSTALLATION.
 - CONFIRM ALL WIRING AND INSTALLATION REQUIREMENTS WITH THE MANUFACTURER.

AREA OF RESCUE WIRING DIAGRAM
N.T.S.



ADDRESSABLE FIRE ALARM SYSTEM, EQUIP. RM AND SHAFT NON-SPRINKLERED ELEVATOR RECALL FIRE ALARM RISER
N.T.S.

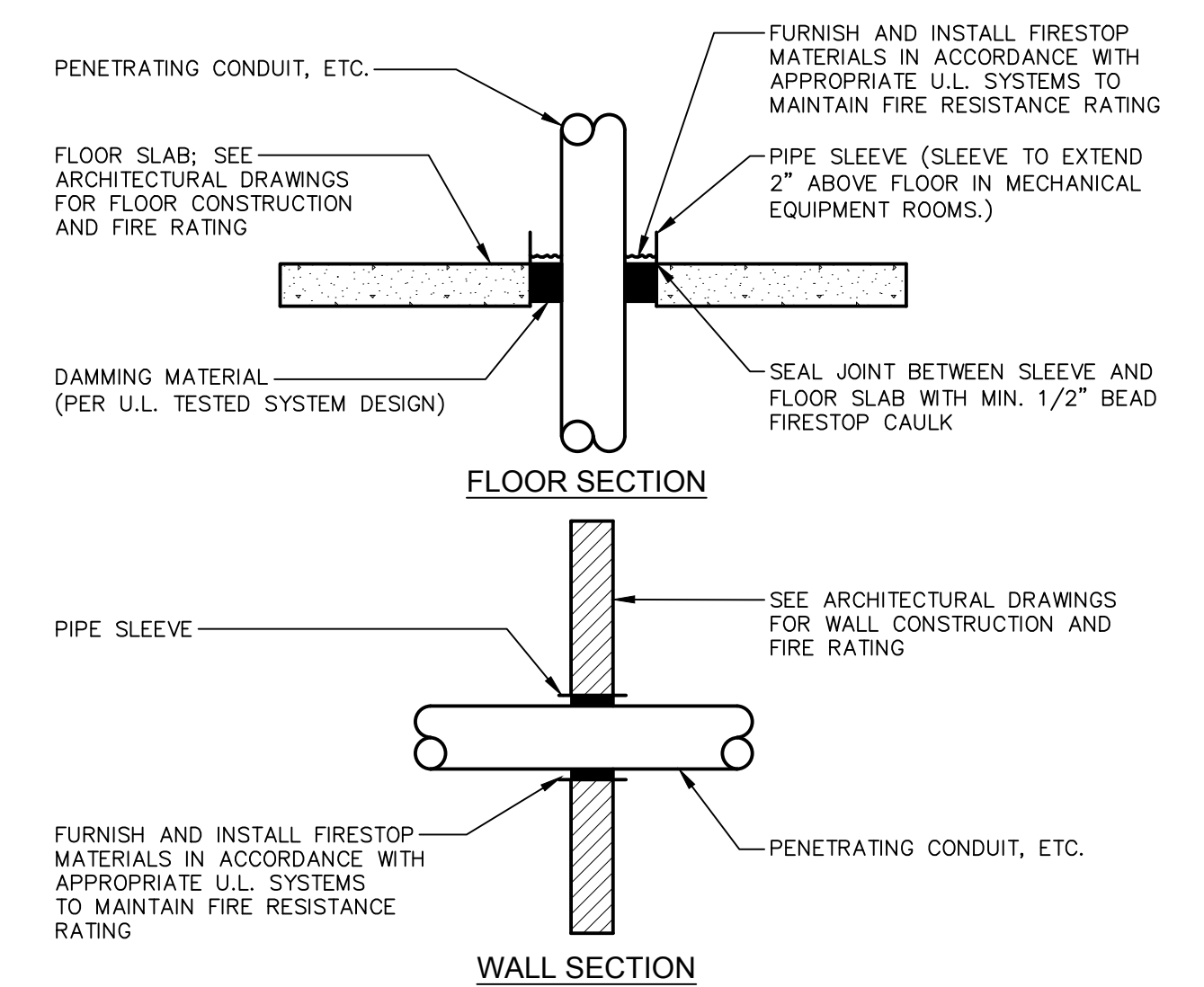
- NOTES:**
- ELEVATOR RECALL PHASE 1: (PROTECTS PUBLIC)**
CONTROL MODULE 1: RECALL ELEVATOR TO ALTERNATE FLOOR (IF SMOKE DETECTOR IN LOBBY OF DESIGNATED FLOOR IS IN ALARM).
CONTROL MODULE 2: RECALL ELEVATOR TO DESIGNATED FLOOR (IF SMOKE DETECTOR IN LOBBY OF ALTERNATE FLOOR IS IN ALARM).
 - ELEVATOR SHUTDOWN: (PROTECTS FIREFIGHTERS)**
CONTROL MODULE 3: RECALL ELEVATOR TO NEAREST SAFE FLOOR. ACTIVATED BY SMOKE DETECTORS IN ELEVATOR EQUIPMENT ROOM.
 - VERIFY ALL CONTROL MODULE PROGRAMMING INCLUDING ALTERNATE AND DESIGNATED FLOOR WITH AHJ.
 - ALL CONDUIT IN ELEVATOR SHAFT AND PIT SHALL BE GRC AND ALL DEVICES SHALL BE WEATHERPROOF.



TWO-BEDROOM S&H UNIT DOORBELL DETAIL
N.T.S.

UL FIRE STOP SYSTEMS FOR 1 AND 2 HOUR RATED WALL AND FLOOR ASSEMBLIES

SERVICE	GYPSUM WALL PENETRATION	CONCRETE/MASONRY WALL PENETRATION	CONCRETE FLOOR PENETRATION
GRC CONDUIT (NOMINAL ≤ 6" DIA.)	WL1049	WS1055	CAJ1079
EMT CONDUIT (NOMINAL ≤ 4" DIA.)	WL1049	WS1055	CAJ1079
PVC CONDUIT/ INNER DUCT (≤ 2" DIA.)	WL2093	WJ2018	CAJ2031
CABLES (MAX. 3" DIA. CABLE BUNDLE)	WL3076	WJ3022	CAJ3133
CABLE TRAYS	WL4005	WJ4009	CAJ4029
BUS DUCT	WL6001	CAJ6008	CAJ6008



- NOTES:**
- WHERE CONDUIT, CABLES AND OTHER COMPONENTS PASS THROUGH FIRE OR SMOKE RATED WALLS OR FLOORS, PROVIDE NON-ASBESTOS SEAL ASSEMBLIES CLASSIFIED BY U.L. TO PROVIDE FIRE BARRIERS EQUAL TO OR GREATER THAN THE TIME RATING OF THE CONSTRUCTION BEING PENETRATED, WITH APPROPRIATE MATERIALS AND SYSTEMS THAT COMPLY WITH APPLICABLE CODES AND THAT HAVE BEEN TESTED IN ACCORDANCE WITH U.L. 1479 OR ASTM E814.
 - GROUT, MORTAR OR GYPSUM BASED PRODUCTS SHALL NOT BE INSTALLED IN LIEU OF FIRESTOPPING MATERIALS AND U.L. SYSTEMS.
 - FOR SLEEVED PENETRATIONS, FIRESTOP ANNULAR SPACE, IF ANY, BETWEEN SLEEVE AND ADJACENT CONSTRUCTION TO MEET U.L. SYSTEM REQUIREMENTS. SEE NOTE 2 ABOVE.
 - THIS CONTRACTOR SHALL FIRESTOP ALL MISCELLANEOUS OPENINGS IN FIRE-RATED CONSTRUCTION RESULTING FROM HIS WORK.
 - CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS TO ENGINEER, INCLUDING U.L. RATED SYSTEM NUMBER AND DETAIL FOR EACH TYPE OF PENETRATION AND CONFIGURATION.
 - SLEEVES USED FOR CABLE RISERS THROUGH FLOORS OR WALLS SHALL BE INSTALLED PER THE ABOVE FLOOR OR WALL SECTIONS. IN ADDITION, FIRESTOP MATERIAL SHALL BE PROVIDED INSIDE SLEEVE AFTER CABLES ARE COMPLETELY INSTALLED.

FIRESTOPPING DETAIL FOR PENETRATIONS THROUGH FIRE-RATED CONSTRUCTIONS
N.T.S.

DETAILS - ELECTRICAL
GERMANTOWN CROSSING
DAYTON OHIO



430 GRANT STREET
AKRON, OH 44311
PHONE: (330) 867-1093
www.tcarchitects.com

TURNING VISIONS INTO REALITY

03/31/2023
DATE

82A21
PROJECT NUMBER

E704
DRAWING NUMBER

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Germantown Crossing Geotechnical Report

Prepared for

**Model Group
1826 Race Street
Cincinnati, Ohio**

September 26, 2022

Project No. CN220187



September 26, 2022

David Daugherty
Model Group
1826 Race Street
Cincinnati, Ohio

Attention: Mr. David Daugherty
Sent via e-mail: ddaugherty@modelgroup.net

**Subject: Geotechnical Report for Germantown Crossing
1520 Germantown Street
Dayton, Ohio
CSI Project No. CN220187**

Dear Mr. Daugherty,

Consulting Services Incorporated of Cincinnati (CSI) is pleased to present our geotechnical report for the proposed Germantown Crossing project located at 1520 Germantown Street, Dayton, Ohio. We provided our services in general accordance the CSI Proposal 7981, dated July 12, 2022.

Our report represents information provided to us, readily available published data relevant to the site and site area, our observations and subsurface conditions encountered and our opinion of primary geotechnical conditions (discussion and recommendations) affecting site work and foundation design for the project.

Again, we greatly appreciate the opportunity to provide our services and look forward to working with you and the project team on this (and hopefully) more projects in the future. Please do not hesitate to contact us for questions or comments about the information contained herein.

Cordially,

James P. Haines, P.E.
Senior Project Engineer



Joseph S. Burkhardt, P.E.
Principal Geotechnical Engineer



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INTRODUCTION

1 SCOPE OF THE GEOTECHNICAL EXPLORATION

As proposed, CSI conducted a geotechnical exploration for the proposed Germantown Crossing development located at 1520 Germantown Street in Dayton, Ohio. Our services included a review of the project information provided, conducting a subsurface exploration that utilized soil borings to obtain samples for modeling the soil conditions at the proposed development, an analysis of data and information obtained, providing foundation recommendations for the site conditions and providing recommendations for site earth work.

2 SITE AND PROJECT INFORMATION

In preparing for this final report, CSI was provided with a Site Plan titled "Germantown Crossing Dayton Ohio" Sheet C101 prepared by tc Architects dated 6/28/2022 which depicts the layout of the proposed development. Based on the provided information, CSI understands the proposed project consists of a 50 unit 3-story L-shaped building with associated surface parking. A summary of the site and project information is presented in Tables 1 and 2 below.

Table 1: Site Information

Item	Description
Site Location	The site is located at the southwest quadrant of the intersection between Germantown Street and S. Paul Laurence Dunbar Street at address 1520 Germantown Street, Dayton, Ohio.
Size of Site	The overall property is approximately 1.5 acres.
Surrounding Area	The site is bordered by Germantown Street to the north, S. Paul Laurence Dunbar Street to the east and Willard Street to the south. An open and vacant grass covered area neighbors the site to the west.
Existing Conditions	The property is currently occupied by a vacant 3-story building situated within the central/northern portion of the site and is surrounded by asphalt and concrete pavement. There is approximately 10 feet of downward relief across the site from north to south ranging in elevation of about 756 feet amsl to 746 feet amsl.
Existing/Previous Structures(s)	A 3-story building currently occupies the central/northern portion of the site with the remainder of the site comprised of asphalt and concrete pavement. The lower level of the 3-story building is below grade at the north end of the building that transitions to an at grade level along the south end of the building. Prior to the existing development, the contained a rectangular shaped building oriented in a north-south direction that extended the full length of the site.
Existing/Previous Utilities	The site contains several existing underground utilities consisting of electric, gas, water and sewer. Overhead power is also present along the north side of the property.
Previous Site Use	The existing development was formerly the Day-Mont Behavioral Health Care.

Table 2: Project Information

Item	Description
Site Layout and Grading	See Boring Location Plan included within the appendix for depiction of the plan layout of the proposed structure and pavements. Proposed final grading and finish floor elevation was not provided at the time of this report.
Proposed Structure(s)	The proposed building will consist of a 50 unit 3-story L-shaped building positioned along the north and east sides of the site that occupies a footprint of 52,500 square feet. Proposed parking and drive lanes will occupy the remainder of the site.
Building Construction	It is assumed the building will be wood framed with a slab on grade floor.
Finish Floor Elevation	Not provided. It is assumed the finish floor will closely match existing grades.
Maximum Loads	Structure loads were not provided; therefore, CSI assumes Continuous loads: 2 kips per linear foot or less; Column loads: 150 kips or less; Floor Slab: 120 psf or less

3 AREA/SITE INFORMATION

3A AREA PHYSIOGRAPHY / TOPOGRAPHY

The site is located within the Southern Ohio Loamy Till Plain. This area is characterized by Wisconsin age till, outwash and loess over lower Paleozoic age carbonate rocks and shales in the east. Surface of loamy till, end and recessional moraines, commonly associated with boulder belts, between relatively flat lying ground moraine, cut by steep valleyed large streams fill with outwash. The existing ground surface within the limits of the site provides gentle relief from north to south ranging from about elevation 756 feet amsl to 746 feet amsl. The open grass area at the southwest corner of the site is somewhat elevated in comparison to the existing pavement area to the east and is at about elevation 756 to 754 feet amsl. Figures 1 and 2 below depict the location of the site with respect to the regional physiography and existing topography, respectively.

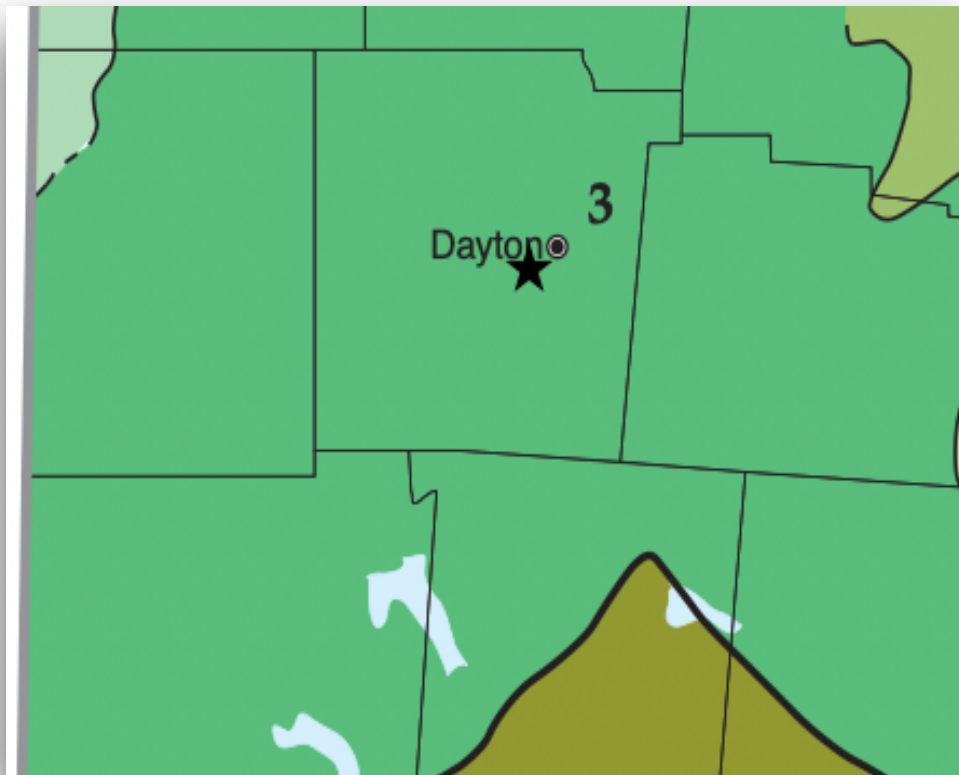


Figure 1: Ohio Physiographic Map (Approximate Site Location Shown With Star)

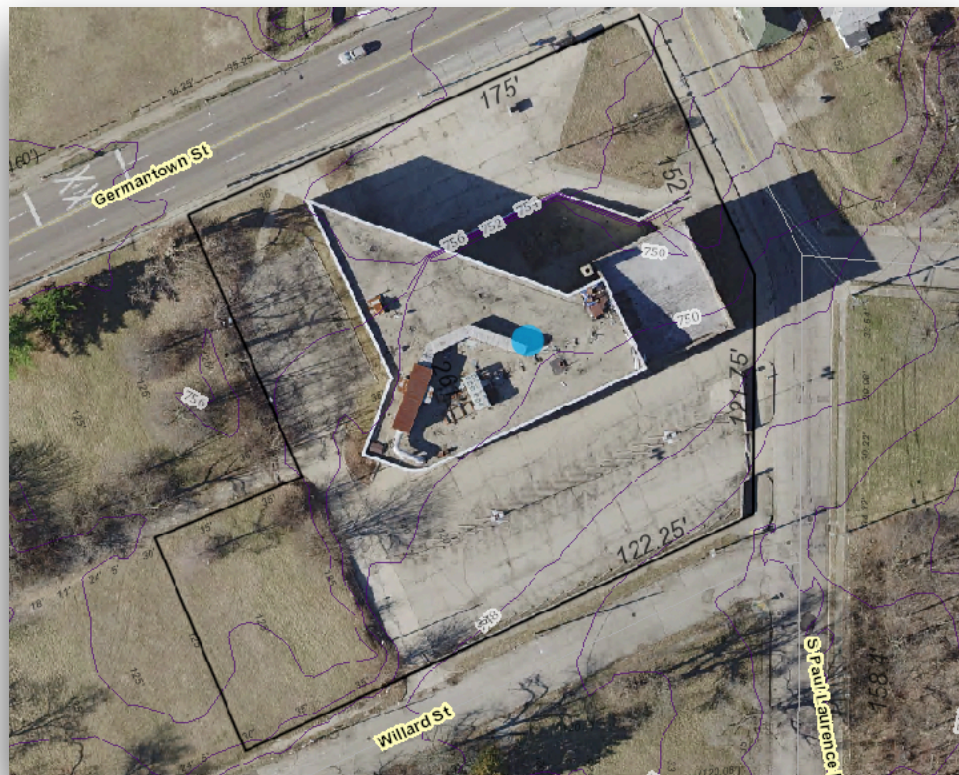


Figure 2: Montgomery County GIS 2017 Topography

3B SITE GEOLOGY

A review of the *Surficial Geology of the Ohio Portions of the Dayton Quadrangle* shown in **Figure 3**, indicates the site is mapped with deep Wisconsinan age deposits of sand and gravel with discontinuous layers containing unsorted mixtures of silt, clay, sand, gravel and boulders. Based on this mapping, the underlying limestone interbedded with shale bedrock is ordovician age and estimated to be in excess of 200 feet.

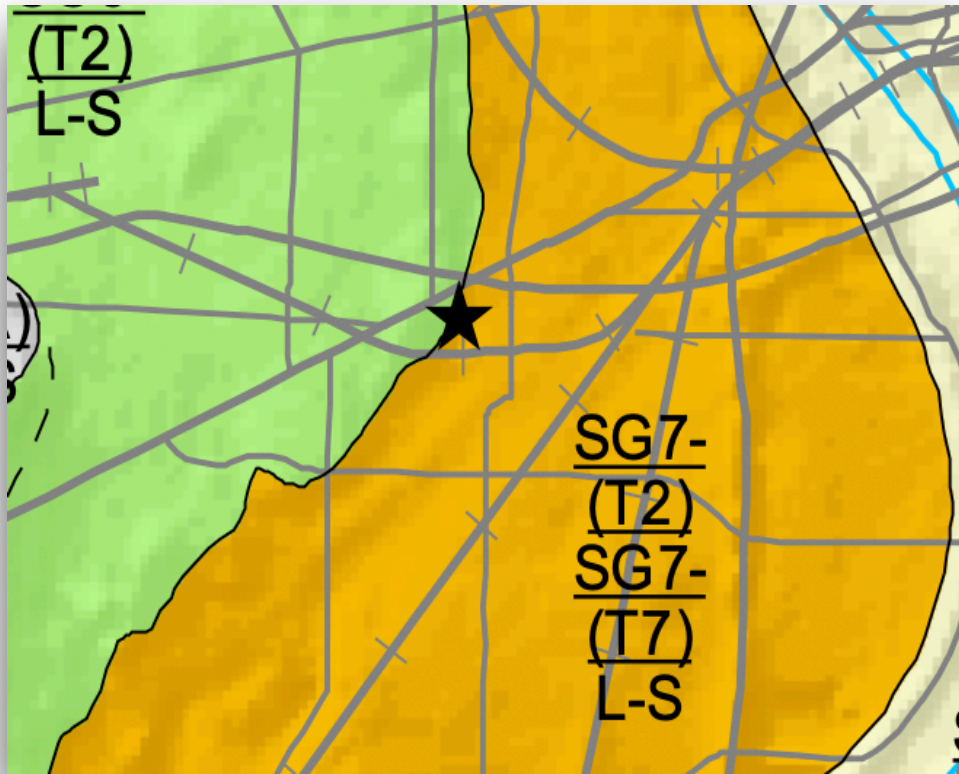


Figure 3: Site Geology (Approximate Site Location Shown With Star)

3C PUBLISHED SITE SOIL CONDITIONS

Published surficial soil mapping from the USDA soil survey indicates the surficial soils on the site are associated with Crosby- and Miamian-Urban Land Complex. Sites mapped with the Urban Land Complex designated are those that have been associated with prior and existing developments. Figure 4 on the following page depicts the USDA soil survey mapping of the site. Table 3 below summarizes relevant information for the Crosby and Miamian soil series.

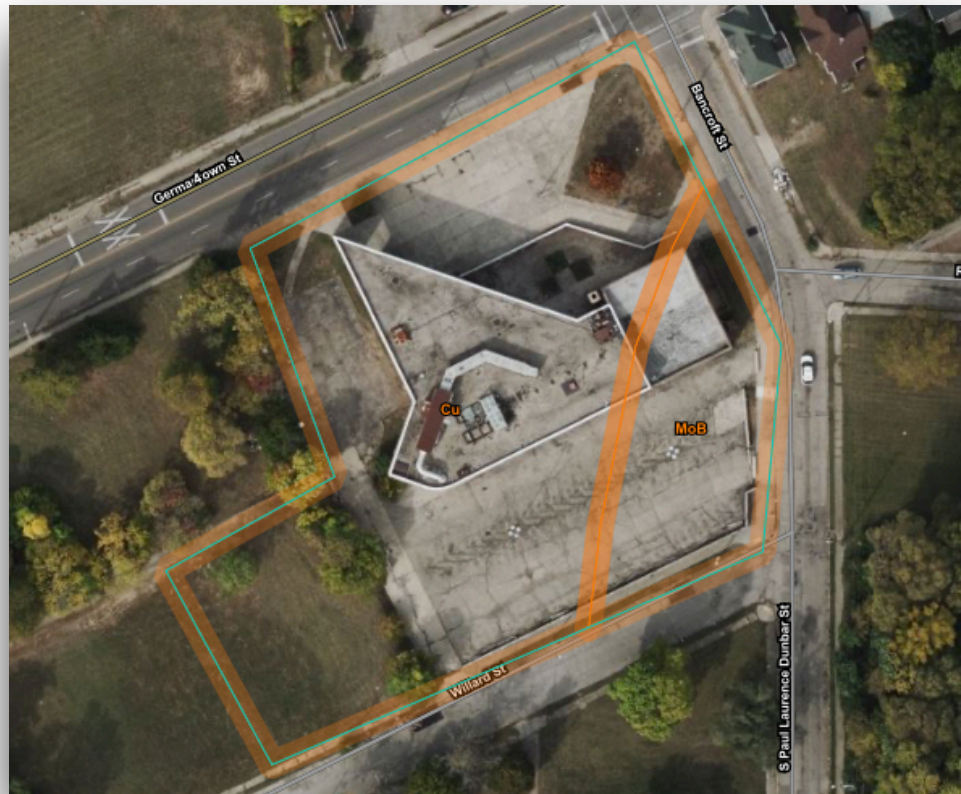


Figure 4: USDA Soil Survey Map

Table 3: Summary of USDA Soil Survey

Soil Series	Abbreviation	Slope (%)	Parent Material	Percentage of Site (%)	Depth to Restrictive Feature (in.)	Depth to Water Table (in.)
Crosby	Cu	0 to 2	Silty material or loess over loamy till	80.6	24 to 40	6 to 24
Miamian	MoB	2 to 6	Silty loess over loamy till	19.4	>80	>80

3D AERIAL PHOTOGRAPHS (GOOGLE EARTH)

Review of historical aerial images since the 1950's indicate that the site was developed prior to 1956 with a rectangular shaped building the appears to encompass much of the site. The referenced building appears to have been demolished prior to 1968 and the site was vacant as shown in the 1968 aerial. The 1994 image shows the building the is currently on the site. There does not appear to have been much change to the site or current development since 1994.



1956 Aerial



1968 Aerial



March 1994 Aerial

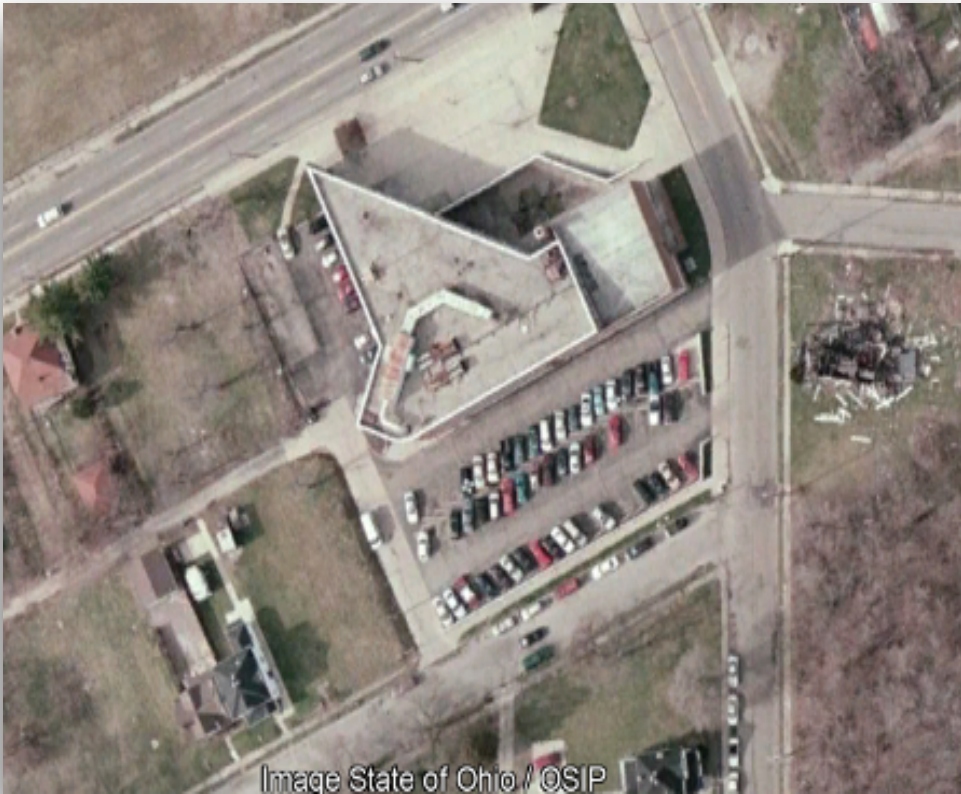
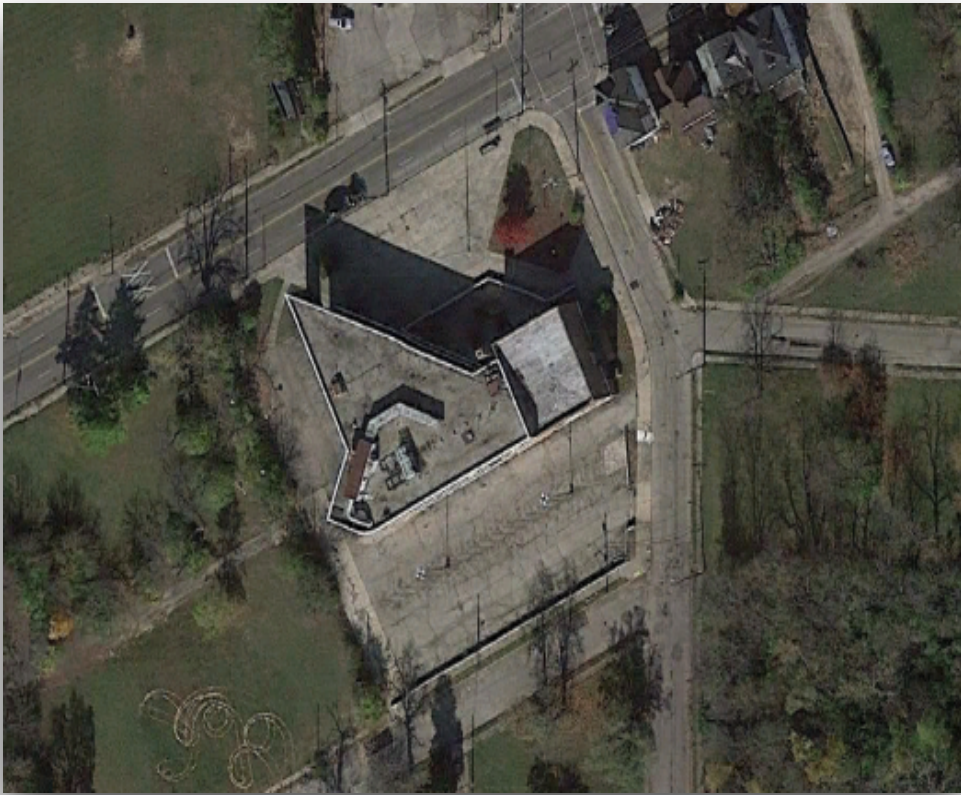


Image State of Ohio / OSIP

March 2005 Aerial



November 2020 Aerial

4 SITE PHOTOGRAPHS

Representative photographs of the site from August 17, 2022 are shown below.



Photo 1: Standing at Boring B-4 facing West to Boring B-2.



Photo 2: Northwest Portion of the Site Facing East



Photo 3: Northwest Portion of the Site Facing South.



Photo 4: Southwest Corner of Existing Building Facing East.



Photo 5: Southern Portion of the Site.



Photo 6: Northeast Corner of Existing Building Facing West Depicting Lower Level.

FINDINGS

5 SUBSURFACE CONDITIONS

CSI performed ten (10) soil test borings to explore the subsurface conditions at the site. In general, our borings encountered either topsoil, concrete or asphalt pavement at the ground surface that was underlain by either previously placed fill or natural granular deposits of medium dense to dense sand and gravelly sand.

5A SUBSURFACE STRATA INFORMATION

The subsurface conditions encountered at the test boring locations are shown on the Test Boring Logs in the Appendix. These records represent our interpretation of the subsurface conditions based on the field logs, visual examination of field samples by an engineer, and field and laboratory tests of the samples collected. The letters in parentheses following the soil descriptions are the soil classifications in general accordance with the Unified Soil Classification System (USCS). It should be noted that dashed stratification lines shown on the soil boring logs and Cross Sections A-A' and B-B' in the appendix represent approximate transitions between material types. In-situ stratum changes could occur gradually or at slightly different depths. Boring location coordinates and ground surface elevations were determined using a Real Time Kinetics (RTK) type GPS unit.

SURFICIAL MATERIALS

The surficial materials at the site consist of either topsoil, concrete or asphalt pavement. Topsoil was present at the ground surface at Borings B-3, B-4, B-7 and B-8 and was generally 6 inches thick. Concrete pavement comprises the majority of the north portion of the site in between the

existing building and Germantown Street and was measured to be about 3 inches thick at Boring B-2. Asphalt pavement is present within majority of the western and southern portion of the site and measured about 2 to 4 inches thick within Borings B-1, B-5, B-6, B-9 and B-10. Underlying the asphalt pavement at Borings B-5, B-6, B-9 and B-10, an approximate 3 to 5 inch thick aggregate base layer was present. The surficial materials and associated thickness encountered at each boring location is included on the boring logs within the appendix.

EXISTING FILL

Existing fill soils were encountered underlying the existing pavement and/or topsoil at Borings B-1, B-2, and B-7 through B-10 that extended to depths between about 3.5 and 6 feet bgs (corresponding to elevations between about 750 and 751.5 feet amsl). The existing fill in Borings B-7, B-9 and B-10 extended to the maximum explored depth of about 5 feet bgs (elevations between about 741 and 751 feet amsl). Based on the referenced boring locations, the existing fill appears to be relatively sparatic across the site. The fill soil was generally described to be brown and gray sandy lean clay, lean clay, silt, or clayey sand with varying amounts of gravel. At isolated depths and locations the existing fill contained few roots, brick and rock fragments. Standard Penetration Test (SPT) N-Values were reported to generally range from 3 to 15 blows per foot (bpf). Split spoon refusal (i.e., greater than 50 blows per 6-inch increment) was encountered at one sample at Boring B-2 due to a rock floater. The consistency of the cohesive fill ranged from soft to stiff and the relative density of the granular fill is considered very loose to medium dense. Unconfined compressive strengths of the cohesive existing fill (estimated using a Hand Penetrometer) ranged from 0.5 to 2.5 tons per square foot (tsf). The in-situ moisture contents were reported to range between 6 and 18.2 percent.

GLACIAL OUTWASH

Natural soils designated as glacial outwash were encountered underlying the topsoil and/or pavement within Borings B-3 through B-6 or underlying the existing fill within Borings B-1, B-2 and B-8 and extended to the maximum explored depth of about 5 to 30 feet bgs (elevations between about 725 and 749 feet amsl). The glacial outwash is generally described as medium dense sand and clayey sand with trace amounts of gravel that transition to medium dense to very dense gravelly sand containing trace amounts of clay and silt below a depth of about 6 to 8.5 feet bgs (between about elevations 746.5 and 750 feet amsl). At Borings B-3 and B-4, an approximate 2.5 foot thick layer of very stiff to hard silt was encountered prior to transitioning into the gravelly sand. Standard Penetration (SPT) N-Values were reported to range from 11 to 43 bpf within the upper portion of the glacial outwash strata (i.e., sand, clayey sand and silt), and ranged from 12 to 62 bpf within the gravelly sand. Overall, the SPT values increased with depth. Two moisture content tests were performed on the samples of silt obtained from Borings B-3 and B-4 which were 19.4 percent and 18.3 percent, respectively.

For details of subsurface conditions encountered at a particular boring location please refer to the boring logs contained in the Appendix. It should be noted that our borings were drilled and

sampled according to the procedures presented in the appendix. The boring locations shown in the appendix should be considered accurate only to the degree implied by the method used.

5B GROUNDWATER CONDITIONS

Groundwater was not encountered in any of the borings. In many areas of Ohio with similar geology, water conditions that can affect construction and performance of projects is often related to trapped/perched water zones, which can be erratic, but often observed in granular soils. Perched water sources are typically not linked to the more continuous relatively stable ground water table that typically occurs at greater depths. In addition to perched water surfaces, groundwater may also be encountered at the interface between existing fill and natural soil. Site excavation activities or ground disturbance can expose these features and the resulting seepage can vary greatly. Groundwater issues are also dependent upon recent rainfall activity and surface and subsurface drainage patterns in the area that may change depending on climatic conditions.

6 LABORATORY TESTING

Laboratory tests were performed on selected recovered samples from the borings to assist with classification of the soils and provide recommendations for earthwork. Details for the test methods and results are shown in the Appendix. Tests performed included:

- 8 Moisture Content Tests
- 6 Particle Size Distribution Tests

GEOTECHNICAL DISCUSSION AND RECOMMENDATIONS

7 DISCUSSION—GEOTECHNICAL ISSUES

Based on our experience with similar projects and the conditions observed during our subsurface exploration, we believe the site is suitable for the proposed construction, provided the recommendations outlined in this report are followed. The primary geotechnical concerns are:

- **EXISTING FILL**
- **SITE DEMOLITION AND TEMPORARY EARTH RETENTION**

7A EXISTING FILL

Previously placed fill material was encountered within Borings B-1, B-2 and B-7 through B-10 to depths ranging from about 3.5 to 6 feet bgs. The existing fill is generally comprised of clay, silt and sand mixtures and contained trace amounts of roots, rock and brick fragments. The existing fill is considered variable with respect to strength and moisture content as noted by N values ranging from 3 to 12 bpf, unconfined compressive strengths ranging from 0.5 to 2.5 tsf and moisture contents ranging from about 6 to 18.2 percent. Based on the location of the

proposed building in relation to the borings that encountered existing fill, it is expected the existing fill will be most prominent within the north/east portion of the new building that borders Germantown Street.

Due to the inconsistencies/variability with respect to strength and moisture content, it is CSI's opinion that the existing fill was not placed as an engineered fill with the intent to support new structures. In general, the existing fill will be subject to unpredictable total and differential settlement that could exceed typical design settlement tolerances when subject to new loads associated with building foundations and/or floor slabs. Assuming that the proposed finish floor elevation for the new building will be relatively close to the existing ground surface, it is expected that existing fill will be present at the design foundation elevation and floor slab subgrade, specifically within the north and eastern portions of the building. In general, where previously placed fill is present at or below the foundation bearing surface, building foundations will need to be extended or lowered, as needed, to penetrate the existing fill and bear directly atop natural soil. Given the existing fill appears to be localized within the north and eastern portion of the new building, consideration should be given to removing the existing fill within the building footprint to avoid differential subgrade support between the existing fill and medium dense natural soils. If the owner is willing to accept some risk associated with differential floor slab settlement, the fill may remain in place within the building footprint provided the earthwork recommendations contained in Section 9 are followed.

7B SITE DEMOLITION AND TEMPORARY EARTH RETENTION

Demolition and removal of the existing building, foundations, pavements underground utilities, etc., within the planned development areas will be critical to the successful long term performance of the new structure and associated development. It is understood the existing structure has a lower level; however, CSI is unaware of the extent/limits of the lower level, elevation of the lower level, and how it compares with the surrounding existing grades and site boundaries. Given that the existing building borders portions of the property boundary and existing roadway and the subsurface profile consists of granular soils, it is possible that excavations and demolition activities required to remove the existing buildings lower level may not allow for minimum temporary slopes needed to protect adjacent property boundaries, easements, underground utilities and roadway. As a result, it is possible that a temporary earth retention system may be required in some areas prior to or as the excavations associated with the demolition activities are made. Based on the existing building location, it appears that one critical location of the site may be along the east property boundary. For this project, a feasible temporary earth retention system to consider is driven sheet piles or H-piles with wood lagging. Recommendations regarding site demolition are provided in Section 7. Lateral earth pressure recommendations for use in design of temporary or permanent soil retention/retaining walls are provided in Section 13.

8 SITE DEMOLITION

In accordance with the discussions section of this report, demolition and removal of the existing building, pavements, underground utilities, etc., within the planned development footprint will be

required prior to earthwork, foundation and building construction. It is important that both the existing at-grade and below-ground structures are removed and the associated debris is hauled to an appropriate landfill, properly recycled or stockpiled in an approved area of the site. CSI recommends that below ground and at grade structures (building foundations, floor slabs, underground utilities, sidewalks, pavements, etc.) be completely removed from within the planned building footprint including a 10-foot wide buffer, where possible. CSI recommends that prior to demolition activities, the limits of the lower level of the existing building be evaluated in comparison with the existing grades, easement and/or property boundaries and associated underground utilities to determine if the minimum temporary slope recommendations contained in Section 9B can be adequately maintained and/or if a temporary earth retention system is required.

Existing structures and underground utilities located at least 10 feet beyond the building limits and extending at least 2 feet below the planned finish grades may remain in place, if approved by the Geotechnical Engineer and owner. CSI recommends any pipe or cavity left in place (beyond the building limits) must be fully grouted or backfilled with engineered fill. Construction debris generated demolition activities is not considered suitable for use in on-site fills.

9 EARTHWORK

Historically, more change orders (in orders and costs) occur during the earthwork portion of construction than in almost any other part of the project. Further, the site preparation phase of construction always affects the future performance of project structures and pavements. Add into this, the fact that earthwork is the portion of work most influenced by wet weather and unknown conditions and time-wise, this section of the report could be the most important to prevent and minimize delays and costs during construction and for the life of the project.

Please review the geotechnical concerns listed in Section 7 prior to reading the following recommendations. We recommend that cuts and fills should not be performed without being evaluated by CSI. If problems occur and the recommendations do not address or do not adequately remedy, please contact CSI as soon as possible.

9A EXCAVATIONS TO REMOVE EXISTING FILL

As discussed in Section 7A, existing fill is present within portions of the proposed structure. The existing fill was primarily encountered within the north and east portions of the new building and is unsuitable for direct support of the building foundations. The existing fill may be left in place to provide support for the planned floor slab provided the owner is willing to accept the risk of potential differential floor slab settlement associated with the existing fill and differential subgrade support conditions between the existing fill and natural soils and the earthwork and engineered fill recommendations contained in Section 9 are followed. Provided the owner is not willing to accept the risk of differential floor slab settlement, associated cracks and/or distortions, CSI recommends that the existing fill be completely removed from within the building footprint, including 10 feet beyond the building limits, prior to building and foundation construction. Based on encountered existing fill thickness, CSI expects the excavations to remove the existing fill will

range from about 3 to 6 feet. Once the existing fill is removed, the associated excavation should be backfilled with engineered fill meeting the requirements contained in Section 9C and 9D of this report.

9B TEMPORARY EXCAVATIONS

Normal earth excavation equipment should be suitable for excavation operations that are associated with the on-site soils. All excavations should comply with OSHA requirements. For below-grade excavations, the existing fill soils and granular natural soils should be classified as an OSHA Type C soil with slope excavations of 1½ H:1V. If soil types other than what has been mentioned above are encountered, CSI should be contacted to evaluate stability.

9C SITE PREPARATION (WORK PRIOR TO FILLING)

- Site demolition should be performed in accordance with the recommendations contained within Section 8;
- The area should be stripped of any topsoil and/or vegetative cover prior to commencing fill operations;
- Areas ready to receive new fill should be proofrolled with a heavily loaded dump truck or similar equipment judged acceptable by the geotechnical engineer;
- The level of proofroll should be determined by the geotechnical engineer on a case-by-case basis;
- Perform the proofrolling after a suitable period of dry weather to avoid degrading the subgrade;
- Areas which pump, rut, or wave during proofrolling may require undercutting, depending on the location of the area and the use of the area, so the geotechnical engineer should be contacted for guidance.
- Backfill of undercut areas should be done in accordance with section 9D;
- Deleterious materials such as topsoil, roots, wood or other materials that will decay should be removed from the site;
- Retain CSI to observe the proofrolling operations and make recommendations for any unstable or unsuitable conditions encountered. This can save time on the construction schedule and save unnecessary undercutting;
- We recommend that site grading should take place between about late April to early November. Earthwork taking place outside this time period will likely encounter wet conditions and weather conditions that will provide little to no assistance with drying the soils.

9D NEW FILL OPERATIONS (MASS EARTHWORK)

Before new fill construction, representative samples should be obtained of the proposed fill material to determine the moisture-density, classification of the material, and whether the material is suitable to be used as structural fill. After the subgrade has been approved to receive new fill, the fill may commence with the following procedures and guidelines recommended:

- Place cohesive fill (clay) in maximum 8-inch thick loose lifts. Granular soils may be placed in maximum 12 inch thick loose lifts provided properly sized equipment is used in the compaction process;
- Fill lifts should be compacted to at least 98 percent of the soil's maximum dry density (ASTM D698) in areas beneath structures (buildings and pavements). If necessary due to material or equipment size, a modified Proctor may also be considered. CSI can provide specific recommendations if needed.
- Non-structural areas (i.e., grassed and/or landscape areas) can utilize a lower compaction requirement of 90 percent if approved by the owner and geotechnical engineer. In general, non-structural areas should be considered 5 feet beyond the limits of structural entities (i.e., building, pavements, sidewalks, etc.).
- For soils which are high plasticity, maintain the moisture content of compacted fill between minus 1 and plus 2 percent of optimum moisture. Lower plasticity soils can have a variance of plus or minus 2 percent of optimum moisture;
- Soils with a plasticity index (PI) of greater than 35 should not be used in the upper 4 feet of new fill within roadways or buildings where the slab will be within 4 feet of the exterior surface grade. The on-site soils are generally non-plastic; however, CSI recommends any import soils that will be used as engineered fill be evaluated and tested by CSI prior to use to confirm plasticity;
- Maximum particle size of the soil should be limited to half the lift thickness. Equipment should be large enough that any limestone slabs are thoroughly broken up. Large pieces not able to be satisfactorily broken up should be removed from the fill;
- Density testing should be performed as a means to verify percent compaction and moisture content of the material as it is being placed and compacted;
- Observation of fill "stability" is also critical, so it is recommended to observe the operation of the filling equipment traversing over the new fill to document movement (similar to proof rolling);
- Density testing should be performed at a rate of at least one per 10,000 square feet per lift with a minimum of 3 tests per lift;
- Soils should not be "over compacted" and construction traffic should be kept to minimum to assure compaction is achieved and that the soil is not allowed to "break down".

- Retain a representative of CSI to observe and document fill placement and compaction operations.

9E BACKFILL OPERATIONS (FOUNDATION WALLS, UTILITIES, ETC.)

These materials are placed in more confined areas than mass earthwork materials or pavement materials and therefore cannot be placed in full compliance with sections the recommendations below. The following are general recommendations for backfill areas:

- Fill lift thicknesses will vary dependent on compaction equipment available and material types, but in no case should exceed 8 inches for clay and 12 inches for granular soils
- For crushed stone/aggregate backfills in trenches or wall backfill and when using smaller compaction equipment the lift thickness should be based on the type of aggregate and equipment. For well-graded granular soils such as Dense Grade Aggregate, a thickness of 4 to 6 inches is typically required. If open-graded stone is used, the lift thickness may be able to be increased. This should be evaluated by the geotechnical engineer
- Fill lifts should be compacted to at least 98 percent of the soil's maximum dry density (ASTM D 698) in areas beneath structures (buildings, equipment foundations and pavements)
- For granular and lean clay soils, maintain the moisture content of compacted fill between minus 2 and plus 2 percent of optimum moisture
- Maximum particle size of the soil should be limited to half the lift thickness. Equipment should be large enough that any large particles are thoroughly broken up. Large pieces not able to be satisfactorily broken up should be removed from the fill
- Density testing should be performed as a means to verify percent compaction and moisture content of the material as it is being placed and compacted
- Density testing should be performed at a rate of at least 3 tests per lift; CSI should be retained to provide additional recommendations for backfill

9F PERMANENT CUT/FILL SLOPES

The following are general slope construction guidelines:

- Any permanent cut or fill slope should be designed and constructed no steeper than a gradient of 3H:1V.
- Any area within 10 horizontal feet of a structure should be slightly sloped to allow surface water drainage away from the structure;

9G GENERAL NOTES

- For all earthwork operations, positive surface drainage is prudent to keep water from ponding on the surface and to assist in maintaining surface stability
- The surface should be sealed prior to expected wet weather. This can usually be accomplished with rubber-tired construction equipment or a steel-drum roller
- If any soil placement problems occur, CSI should be retained to provide additional recommendations, as needed

10 SITE DRAINAGE

During construction, water should not be allowed to pond in excavations and fill areas or undercutting will likely be required. During the life of the project, slope the subgrade and other site features so that surface water flows away from the site structures.

For excavations during construction, most free water from the subsurface conditions could likely be removed via sump pumps and open channel flow (if possible) at or near the source of seepage. However, if normal dewatering measures prove insufficient, CSI should be retained to provide recommendations on the issue.

11 FOUNDATIONS

Based on the information provided and the conditions encountered, conventional spread footings should be a suitable foundation system to support the proposed building addition. As mentioned above, existing fill soils are present at the site that will require over-excavation if the existing fill is exposed at the design bearing elevation. Assuming the finish floor elevation of the new structure is relatively close to existing grade, over-excavation depths below typical frost depth are expected to be required within the north and east portions of the new building unless the existing fill is removed during the earthwork phase of the project as discussed in Section 9A. If there are any changes in the project criteria or building locations, CSI should be allowed to review the recommendations to determine if any modifications are required.

11A SHALLOW FOUNDATION RECOMMENDATIONS

Spread footings may be sized using a maximum net allowable bearing pressure of 3,000 pounds per square foot (psf). Foundations should bear on the medium dense to dense glacial outwash or better natural soils or engineered fill placed over the medium dense to dense natural soils. Detailed settlement analysis was beyond the scope of this exploration. However, based on the estimated structure loads, the anticipated behavior of soil types encountered during field activities, and our experience with similar projects, we expect that total settlements will not exceed 1 inch, and that differential settlements will not exceed $\frac{3}{4}$ inch between columns or along continuous footing distances of 25 feet or less. We recommend the structures be designed to accommodate this magnitude of total and differential settlement. Settlement estimates are based, in part, upon the assumption that site preparation is performed in

accordance with our recommendations and with good quality control of the earthwork. Additional design considerations for project foundations are outlined as follows:

- Exterior footing bottoms should bear at least 30 inches below finished exterior grading for frost protection.
- Interior footings (those not exposed to freezing) may be placed at nominal depths provided they bear on suitable material as recommended in this report;
- Include control joints at suitable intervals in the walls of structures and in areas where changes in support from native soil to fill are anticipated, to help accommodate differential foundation movements.

11B SHALLOW FOUNDATION NOTES

In general, cohesive soils, if present, tend to lose strength if they become wet. We recommend the foundation subgrades be protected from exposure to water. For foundations construction, we also recommend the following procedures.

- For soils that will remain exposed overnight or for an extended period of time, place a "lean" concrete mudmat (1 to 2 inches) over the bearing areas. Flowable fill concrete or low-strength concrete is suitable for this cover, as conditions allow.
- Foundation bearing conditions should be benched level.
- Areas loosened by excavation operations should be recompact prior to reinforcing steel placement.
- Loose soil, debris, and excess surface water should be removed from the bearing surface prior to concrete placement.
- Retain the geotechnical engineer to observe all foundation excavations and provide recommendations for treatment of any unsuitable conditions encountered.
- The bearing conditions should be checked by means of portable dynamic cone penetration (DCP) testing or a hand auger in conjunction with field unconfined compression strength testing using a Hand Penetrometer at the direction of the geotechnical engineer.
- Even though fill soils placed for foundation support have likely been checked for compaction at the time of placement, these soils may have become wet or lost some level of strength since that time. The areas should be hand probed to check for surface hardness/strength.

12 GRADE SUPPORTED FLOOR SLABS

Grade supported floor slabs are suitable for the proposed structure, provided the subgrade is prepared according to the recommendations contained within this report. As noted in this report, if the owner is willing to accept the risk of potential floor slab settlement and associated cracks, distortions, etc., the existing fill may be left in place to provide support for the floor slab provided the existing fill passes a thorough proofroll and a minimum 2 feet of newly placed

engineered fill is placed to provide the immediate subgrade support for the floor slab. Alternately the existing fill can be removed and replaced with engineered fill as discussed in Section 9A. We recommend the floor slab be supported on a minimum of 4 inches of compacted granular base. The slab should be designed to be structurally independent of any building footings or walls and should be appropriately reinforced to support the proposed loads. The following features are also recommended as part of the floor slab construction:

- Provide isolation joints between the slab and columns and along footing supported walls
- Adequate joint patterns (ACI and ICC guidelines) should be used to permit slab movement due to normal soil settlement, normal subgrade disturbance and material expansion/contraction
- Keep the crushed stone or gravel moist, but not wet, immediately prior to slab concrete placement to minimize curling of the slab due to differential curing conditions between the top and bottom of the slab
- DO NOT allow soils directly below the slab to become overly wet or dry prior to placement of concrete; and
- Retain CSI to review the actual subgrade conditions prior to slab construction and make recommendations for any unsuitable conditions encountered

Note: Slab subgrade conditions are also considered earthwork areas and the recommendations contained in the Earthwork section of the report should be followed

13 TEMPORARY AND PERMANENT EARTH RETENTION AND RETAINING WALLS

CSI recommends that temporary or permanent soil retention structures and retaining walls for the project be designed to meet the site needs including maximum retention height, location, tolerable deflection at the top of the structure, and constructibility. It is recommended that the retention structure(s) or retaining wall(s) be designed and sealed by a professional engineer licensed in the state of Ohio acknowledging that the appropriate internal, external, and global stability factors of safety for the particular retaining wall structure or soil retention system are met.

Soil retention structures and retaining walls should be designed to resist lateral loads imposed by the surrounding soils, hydrostatic pressure (if adequate drainage of the backfill is not provided), and surface surcharge loads adjacent to the wall (i.e., structures, foundations, pavements, traffic loads, stockpiles, inclined backfill, etc.). Depending on the lateral movement acceptance criteria, the structure may be designed as: 1) cantilevered (not fixed at the top allowing lateral deflection); or, 2) restrained or anchored (fixed at the top). With respect to the lateral earth pressure design, CSI recommends that "active" earth pressures be used for cantilevered designs and "at-rest" lateral earth pressures be used for restrained/anchored designs (i.e., basement foundation walls). Should wall backfill be placed before floor joists are constructed, it may be necessary to provide temporary bracing if the walls cannot accommodate

construction phase stresses, or the walls should be designed for the active earth pressure condition as self-supporting cantilever walls.

The lateral earth pressure coefficients should be selected based on the predominate soil within the retained zone of the soil retention structure or retaining wall. The retained zone should be considered as an imaginary line drawn upward at a 45 degree angle from the top of footing. The following table presents granular backfill and on-site materials earth pressure design parameters for Equivalent Fluid Density's (EFD's) and Earth Pressure coefficients. The values given assume the backfill surface is level, drained or undrained backfill, the zone of backfill conforms to the minimum zone size given above, and no surcharge is placed on the backfill.

Table 4: Equivalent Fluid Density (EFD) and Earth Pressure Coefficient

Condition	Granular Backfill		On-Site Materials (1)		
	Coefficients	EFD (Drained) (pcf)	Coefficients	EFD (Drained) (pcf)	EFD (Undrained) (pcf)
At-Rest	$K_o = 0.35$	45	$K_o = 0.50$	63	94
Active	$K_a = 0.22$	30	$K_a = 0.33$	42	83
Passive	$K_p = 2.75$	300	$K_p = 3.00$	375	250

(1) On-site soil having a unit weight of 125 pcf and friction angle of 30 degrees.

The above table provides drained and undrained (i.e., includes hydrostatic pressure of 62.4 pcf) lateral earth pressure design parameters. For all retaining walls, where possible, CSI recommends that the wall design include sufficient drainage of the backfill soils to relieve hydrostatic pressure. For this purpose, CSI recommends that drainage backfill be constructed immediately behind the wall and extend from the foundation elevation to the top of the wall. This backfill should be effectively drained using a piping system connected to a storm sewer, gravity outlet, weep holes or a sump. Where possible, CSI recommends that the immediate backfill soils (within a minimum of 2 feet laterally from the wall) consist of a free-draining compacted granular material. The free-draining granular material should consist of a uniformly-graded aggregate that is between ½ inch to 1-inch in size and contain less than 5 percent passing a #200 size sieve. The free draining granular backfill should be separated from clayey soil using a non-woven geotextile filter fabric. Alternately, a drainage geocomposite may be used as the drainage layer behind the back face of the wall. CSI recommends that the drainage system be comprised of a minimum 8 inch diameter perforated pipe placed at the base of the free draining granular backfill (i.e., adjacent to and continuously along the wall foundation) or geocomposite and gravity drained to a storm outlet, weep holes or sump.

With respect to global stability of the site retaining walls, CSI recommends that the retaining wall design meet a minimum factor of safety (FS) of 1.5 for global stability. CSI recommends that the wall designer submit the design plans to the Geotechnical Engineer of Record for review to confirm that the final design achieves a global stability FS of 1.5.

14 PAVEMENTS

Proper support of pavement structures will be critical to the long term performance of the roadway. This begins with appropriate earthwork procedures including fill placement and proof rolling to identify soft and yielding areas per Section 9 of this report. Existing fill is expected to be present in portions of the site at the pavement subgrade elevation that will likely yield to proof rolls and construction traffic that will require localized over-excavation and replacement or stabilization prior to placing the aggregate base layer. In addition to proper earthwork procedures, adequate pavement drainage will also have a significant role in the future performance. If the subgrade beneath the pavement becomes wet, it will lose strength and stability and make the overlying pavement structure susceptible to breakup under imposed loads. For surface drainage, we recommend the pavements be constructed/ designed in a manner that allows the water to flow away from the pavement so that water does not collect and pond at the edges. This is typically achieved by crowning the center of the pavement and having a minimum 2% slope in each direction toward a curb and gutter system with positive drainage.

The design traffic loads for this project were not available at the time of this report; therefore, specific pavement designs were not performed. In absence of a specific pavement and evaluation design, CSI has provided some suggested minimums, based on our experience with similar projects and subgrade soil conditions. For light duty pavements (cars and light trucks only), a traffic load of 25,000 equivalent single-axle loads (ESALs) has been assumed. For heavy duty pavements subjected to occasional truck traffic, a traffic load of 100,000 ESALs is assumed. However, CSI recommends that a specific design be performed to confirm that the minimum pavement sections provided herein are sufficient.

The following recommended pavement sections are based on a properly prepared subgrade having a California Bearing Ratio (CBR) value of at least 3. Based on the defined limitations and our assumptions, CSI suggests the minimum pavement section thicknesses described below.

Table 5: Summary of Recommended Pavement Sections

Pavement Application	Minimum Asphalt Concrete/ Aggregate Base Course Thickness (inches)	Minimum Portland cement Concrete/Aggregate Base Course Thickness (inches)
Light Duty(1)	4/8	6/6
Heavy Duty(2)	6/8	6/6

15 NOTES ON THE REPORT AND RECOMMENDATIONS

We recommend that this complete report be provided to the various design team members, the contractors and the project Owner. Potential contractors should be informed of this report in the "Instructions to Bidders" section of the bid documents. A geotechnical exploration, such as the one we performed, used ten borings to attempt to model the subsurface conditions at the site. Because no exploration contains complete data or a complete model, there is always a possibility that conditions between borings will be different from those at specific boring locations. Thus, it is possible that some subsurface conditions will not be as anticipated by the project team or contractor. If this report is included or referenced in the actual contract documents, it shall be explicitly understood that this report is for informational purposes only. CSI shall not be responsible for the opinions of, or conclusions drawn by others.

It has been our experience that the construction process often disturbs soil conditions and this process, no matter how much experience we use to anticipate construction methodology, is not completely predictable. Therefore, changes or modifications to our recommendations are likely needed due to these possible variances. Experienced CSI geotechnical personnel should be used to observe and document the construction procedures and the conditions encountered. Unanticipated conditions and inadequate procedures should be reported to the design team along with timely recommendations to solve the problems created. We recommend that the Owner retain CSI to provide this service based upon our familiarity with the project, the subsurface conditions and the intent of our recommendations.

This report is based on the supplied project information, the subsurface conditions observed at the time of the report, and our experience with similar conditions. As such, it cannot be applied to other project sites, types, or combinations thereof. If the Project Information section in this report contains incorrect information or if additional information is available, you should convey the correct or additional information to us and retain us to review our recommendations. Our recommendations may then require modification.

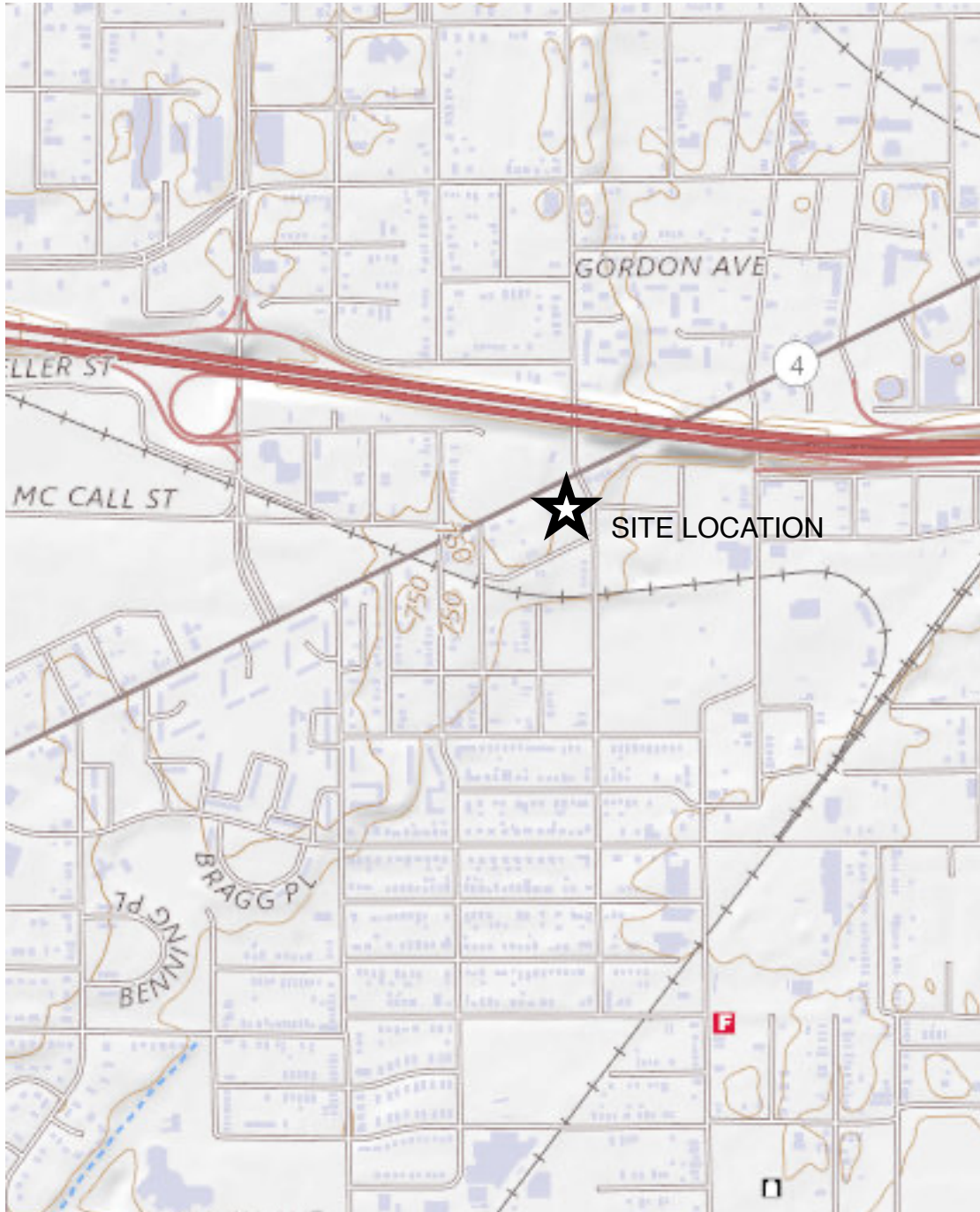
No section or portion of this report (including Appendix information) can be used as a stand alone article to make distinct changes or assumptions. The entire report and Appendix should be used together as one resource. We wish to remind you that our exploration services include storing the soil samples collected and making them available for inspection for 30 days. The soil samples are then discarded unless you request otherwise. Please inform us if you wish to keep any of the obtained samples.

While this report deals with samples of subsurface materials and some comments on water conditions at the site, no assessment of site environmental conditions or the presence of contaminants were performed.

We wish to remind you that our exploration services include storing the soil samples collected and making them available for inspection for 30 days. The samples are then discarded unless you request otherwise. Please inform us if you wish to keep any of the obtained samples.

APPENDIX

**SITE LOCATION PLAN
BORING LOCATION PLAN
CROSS SECTIONS A-A', B-B'
GEOTECHNICAL BORING INFORMATION SHEET
TEST BORING LOGS
FIELD TESTING PROCEDURES
SUMMARY OF LABORATORY RESULTS
GRAIN SIZE DISTRIBUTION
LABORATORY TESTING PROCEDURES**



Adapted from Topographic Mapping

FOR ILLUSTRATION PURPOSES ONLY

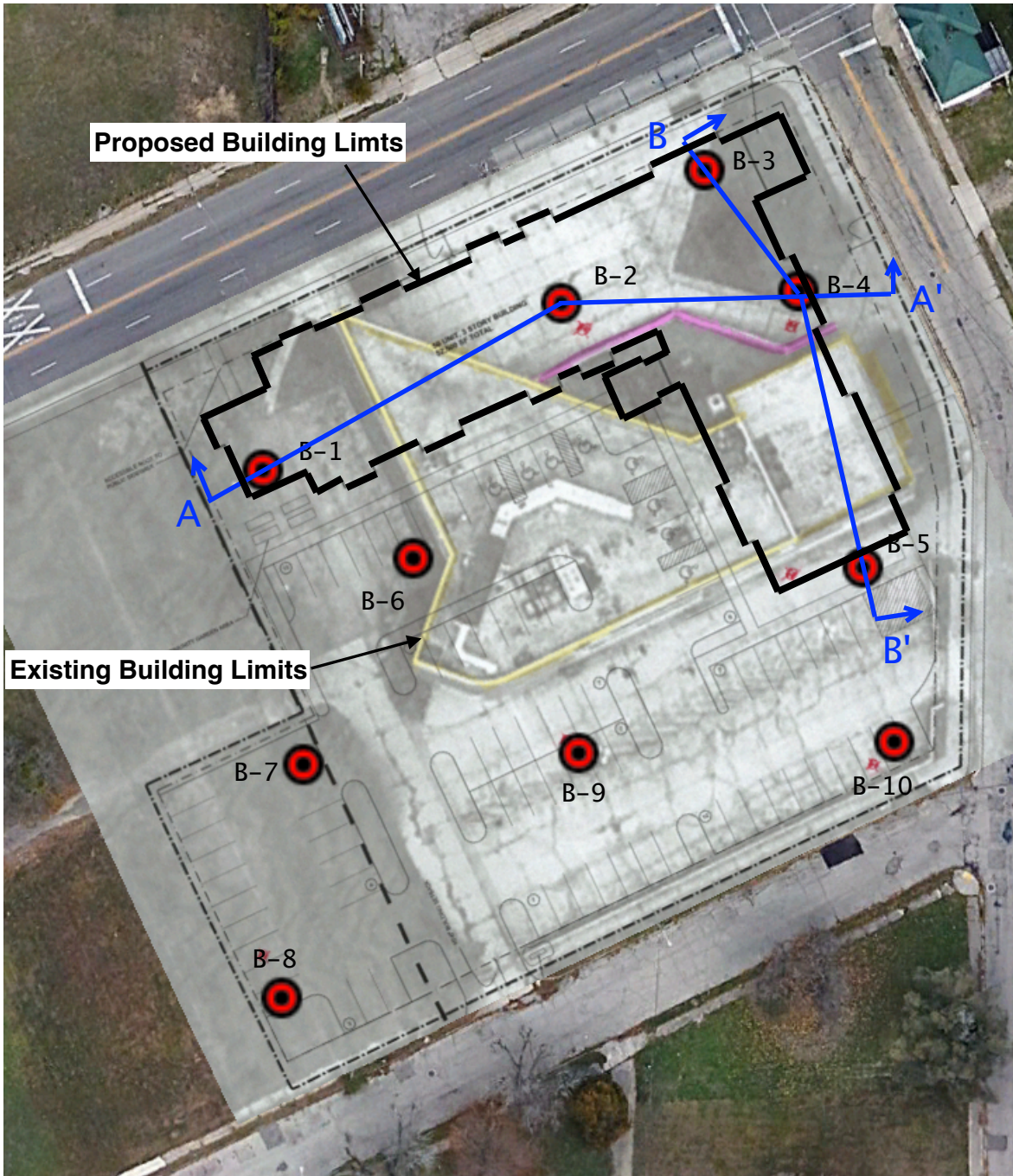


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TITLE: SITE LOCATION PLAN
 PROJECT: Germantown Crossing
 1520 Germantown Street,
 Dayton, Ohio

Project No: CN220187	Drawn By: JPH
Date: 9/21/2022	Checked By: JB
Scale: Not To Scale	Drawing No: 1 of 2

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Adapted from Aerial Imagery & Sheet C101

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LEGEND	
B-XX	BORING LOCATION



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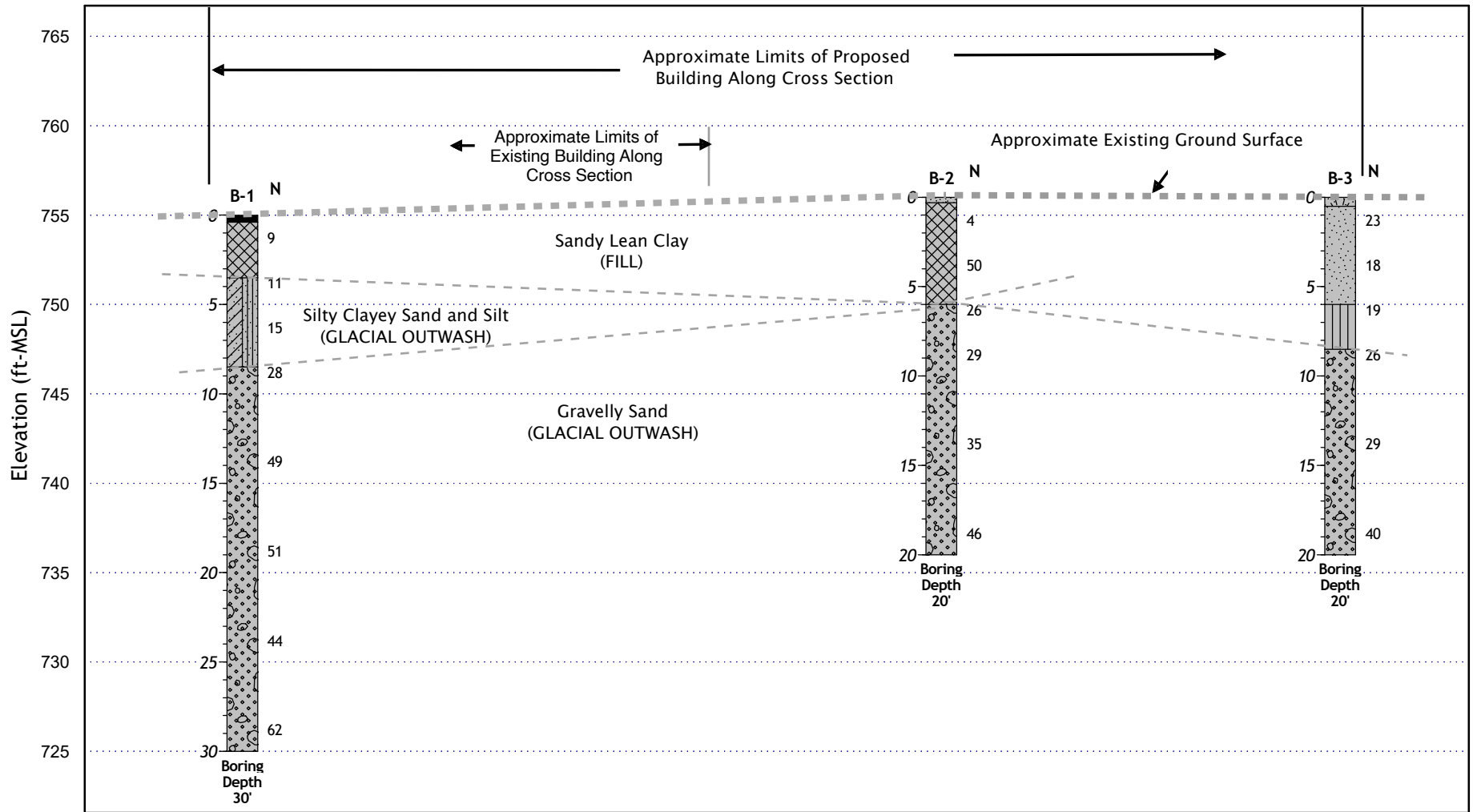
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Drawing No:

2 of 2

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Cross Section A-A'
N.T.S.



SOIL TYPES

(Shown in Graphic Log)

- Fill
- Asphalt

- Topsoil
- Gravel
- Sand
- Silt

- Lean Clay
- Fat Clay
- Silty Sand
- Clayey Sand

- Sandy Silt
- Clayey Silt
- Sandy Clay
- Silty Clay

- Limestone
- Sandstone
- Siltstone
- Shale

CSI STRATIGRAPHY (GINT 7) CN220187 GERMANTOWN CROSSING.GPJ GINT STD US LAB.GDT 9/22/22



CSI of Cincinnati

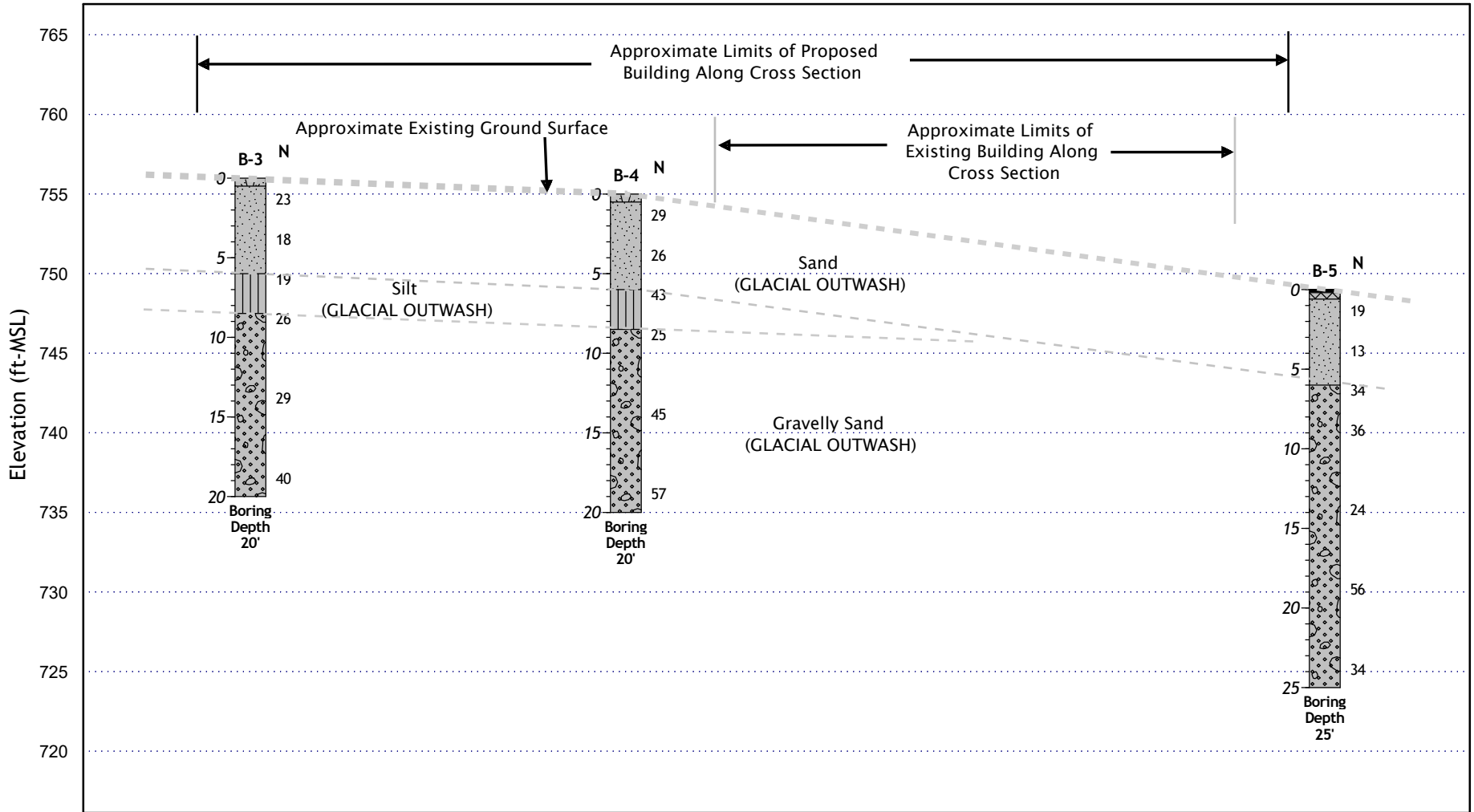
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Fax: 888.792.3121

**Germantown Crossing
CN220187**

BORING PROFILE

Fig. 1

Cross Section B-B'
N.T.S.



SOIL TYPES

(Shown in Graphic Log)

- Fill
- Asphalt

- Topsoil
- Gravel
- Sand
- Silt

- Lean Clay
- Fat Clay
- Silty Sand
- Clayey Sand

- Sandy Silt
- Clayey Silt
- Sandy Clay
- Silty Clay

- Limestone
- Sandstone
- Siltstone
- Shale



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



















**Germantown Crossing
CN220187**

BORING PROFILE

Fig. 1



Geotechnical Boring Information Sheet

Sample Type Symbols	Definitions
Splitspoon (SPT)  Shelby Tube  Grab  Rock Core  Auger Cuttings 	<p>SPT-"Splitspoon" or standard penetration test. Blow counts are number of drops required for a 140 lb hammer dropping 30 inches to drive the sampler 6 inches.</p> <p>N-value is the addition of the last two intervals of the 18-inch sample.</p> <p>Shelby tubes are often called "undisturbed samples". They are directly pushed into the ground, twisted, allowed to rest for a small period of time and then pulled out of the ground. Tops and bottoms are cleaned and then sealed.</p> <p>Sample classification is done in general accordance with ASTM D2487 and 2488 using the Unified Soil Classification System (USCS) as a general guide.</p>
Surface Symbols	
Topsoil  Asphalt  Concrete  Lean Clay  Fat Clay  Glacial Till  Sandy Clay  Silt  Elastic Silt  Lean Clay to Fat Clay  Gravelly Clay  Sandy Silt  Gravelly Silt  Sand  Gravel  Fill  Limestone  Sandstone  Shale/Siltstone  Weathered Rock 	<p>Soil moisture descriptions are based on the recovered sample observations. The descriptors are dry, slightly moist, moist, very moist and wet. These are typically based on relative estimates of the moisture condition of a visual estimation of the soils optimum moisture content (EOMC). Dry is almost in a "dusty" condition usually 6 or more percent below EOMC. Slightly moist is from about 6 to 2 percent below EOMC at a point at which the soil color does not readily change with the addition of water. Moist is usually 2 percent below to 2 percent above EOMC and the point at which the soil will tend to begin forming "balls" under some pressure in the hand. Very moist is usually from about 2 percent to 6 percent above EOMC and also the point at which it's often considered "muddy". Wet soil is usually 6 or more percent above EOMC and often contains free water or the soil is in a saturated state.</p> <p>Silt or Clay is defined at material finer than a standard #200 US sieve (<0.075mm) Sand is defined as material between the size of #200 sieve up to #4 sieve. Gravel is from #4 size sieve material to 3". Cobbles are from 3" to 12". Boulders are over 12".</p> <p>Rock hardness is classified as follows:</p> <p>Very Soft: Easily broken by hand pressure</p> <p>Soft: Ends can be broken by hand pressure; easily broken with hammer</p> <p>Medium: Ends easily broken with hammer; middle requires moderate blow</p> <p>Hard: Ends require moderate hammer blow; middle requires several blows</p> <p>Very Hard: Many blows with a hammer required to break core</p> <p>Rock Quality Designation (RQD) is defined as total combined length of 4" or longer pieces of core divided by the total core run length; defined in percentage.</p>
Samples Strength Descriptors	
Cohesive Soils: Very Soft N 0-1 Soft 2-4 Firm 5-8 Stiff 9-15 Very Stiff 16-30 Hard 31+ Non-cohesive Soils: Very Loose 0-4 Loose 5-10 Firm 11-20 Very Firm 21-30 Dense 30-50 Very Dense 51+	<p>Water or cave-in observed in borings is at completion of drilling each boring unless otherwise noted.</p> <p>Strata lengths shown on borings represents a rough estimate. Transition may be more abrupt or gradual. Soil borings are representative of that estimated location at that time and are based on recovered samples. Conditions may be different between borings and between sample intervals. Boring information is not to be considered stand alone but should be taken in context with comments and information in the geotechnical report and the means by which the borings are logged, sampled and drilled.</p>

CLIENT Model Group BORING # B-1
 PROJECT NAME Germantown Crossing JOB # CN220187
 PROJECT LOCATION 1520 Germantown Street, Dayton, Ohio LOGGED BY CG
 APPROVED BY JPH

DRILLING and SAMPLING INFORMATION

Date Started 8/22/2022 Contractor CSI
 Date Completed 8/22/2022 Boring Size 6 in.
 Drill Rig Mobile B-57 Boring Method 3.25" I.D. HSA
 Weather Overcast Hammer Type Automatic

TEST DATA

SOIL CLASSIFICATION				Sample No.	Sample Type	Sample Graphics	Recovery (in)	Standard Penetration Test Blows per 6" [N-Value] blows/foot	Qu-tsF Unconfined (Pocket Pen.) Compressive Strength	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Percent Passing #200 Sieve	Remarks
Elev. (ft)	Depth Scale	Water Level												
SURFACE ELEVATION: 755.0														
754	2		ASPHALT (4 inches)	1	SS		14	4-4-5 [9]	2.5	11.3				
752	4		Brown SANDY LEAN CLAY (CLS) with trace gravel, noted brick fragment [FILL] - moist, stiff	2	SS		16	3-5-6 [11]	2.5				58	
750	6		Brown SILTY CLAYEY SAND (SC-SM) with trace gravel [GLACIAL OUTWASH] - moist, medium dense	3	SS		13	3-6-9 [15]	2					
748	8		Brown well graded GRAVELLY SAND (SWG), trace silt, trace clay [GLACIAL OUTWASH] - dry, medium dense to very dense	4	SS		13	11-14-14 [28]					10	
746	10			5	SS		14	19-21-28 [49]						
744	12			6	SS		9	20-22-29 [51]						
742	14			7	SS		10	15-19-25 [44]						25
740	16			8	SS		12	21-29-33 [62]						
738	18		Boring Terminated at 30 feet - No Refusal											
736	20													
734	22													
732	24													
730	26													
728	28													
726	30													
724	32													
722	34													

Depth to Groundwater

- Noted on Drilling Tools _____ ft.
- ▽ At Completion _____ ft.
- ▼ After _____ hours _____ ft.
- ⊠ Cave Depth _____ ft.

Sample Type

- SPT- Standard Penetration Test
- SS- Split Spoon
- ST- Shelby Tube
- RC- Rock Core
- CU- Auger Cuttings

Boring Method

- HSA- Hollow Stem Augers
- CFA- Continuous Flight Augers
- MD- Mud Drilling

CLIENT Model Group BORING # B-2
 PROJECT NAME Germantown Crossing JOB # CN220187
 PROJECT LOCATION 1520 Germantown Street, Dayton, Ohio LOGGED BY CG
 APPROVED BY JPH

DRILLING and SAMPLING INFORMATION

Date Started 8/22/2022 Contractor CSI
 Date Completed 8/22/2022 Boring Size 6 in.
 Drill Rig Mobile B-57 Boring Method 3.25" I.D. HSA
 Weather Overcast Hammer Type Automatic

TEST DATA

SOIL CLASSIFICATION				Sample No.	Sample Type	Sample Graphics	Recovery (in)	Standard Penetration Test Blows per 6" [N-Value] blows/foot	Qu-tsif Unconfined (Pocket Pen.) Compressive Strength	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Percent Passing #200 Sieve	Remarks
Elev. (ft)	Depth Scale	Water Level												
SURFACE ELEVATION: 756.0														
			CONCRETE (3 inches)											
754	2		Brown SANDY LEAN CLAY (CLS) with gravel [FILL] - moist, soft	1	SS		5	3-2-2 [4]		9.5				
752	4		Noted rock fragment at about 4 feet	2	SS		6	3-50- [50]	1					
750	6		Brown and gray well graded GRAVELLY SAND (SWG), trace silt, trace clay [GLACIAL OUTWASH] - dry, medium dense to very dense	3	SS		10	15-12-14 [26]						
748	8			4	SS		12	8-16-13 [29]						
746	10			5	SS		11	8-16-19 [35]						
744	12			6	SS		14	15-24-22 [46]						
742	14		Boring Terminated at 20 feet - No Refusal											
740	16													
738	18													
736	20													
734	22													
732	24													
730	26													
728	28													
726	30													
724	32													
722	34													

Depth to Groundwater

- Noted on Drilling Tools _____ ft.
- ▽ At Completion _____ ft.
- ▼ After _____ hours _____ ft.
- ⊠ Cave Depth _____ ft.

Sample Type

- SPT- Standard Penetration Test
- SS- Split Spoon
- ST- Shelby Tube
- RC- Rock Core
- CU- Auger Cuttings

Boring Method

- HSA- Hollow Stem Augers
- CFA- Continuous Flight Augers
- MD- Mud Drilling

CLIENT Model Group BORING # B-3
 PROJECT NAME Germantown Crossing JOB # CN220187
 PROJECT LOCATION 1520 Germantown Street, Dayton, Ohio LOGGED BY CG
 APPROVED BY JPH

DRILLING and SAMPLING INFORMATION

Date Started 8/22/2022 Contractor CSI
 Date Completed 8/22/2022 Boring Size 6 in.
 Drill Rig Mobile B-57 Boring Method 3.25" I.D. HSA
 Weather Overcast Hammer Type Automatic

TEST DATA

SOIL CLASSIFICATION				Sample No.	Sample Type	Sample Graphics	Recovery (in)	Standard Penetration Test Blows per 6" [N-Value] blows/foot	Qu-tsif Unconfined (Pocket Pen.) Compressive Strength	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Percent Passing #200 Sieve	Remarks
Elev. (ft)	Depth Scale	Water Level												
SURFACE ELEVATION: 756.0														
TOPSOIL (6 inches)														
754	2		Brown poorly graded SAND (SP) with trace gravel, trace silt, trace clay [GLACIAL OUTWASH] - moist to dry, medium dense	1	SS		16	10-12-11 [23]					21	
752	4			2	SS		14	7-10-8 [18]						
750	6		Brown SILT (ML) with trace sand [GLACIAL OUTWASH] - moist, very stiff	3	SS		14	8-9-10 [19]	19.4				87	
748	8													
746	10		Brown and gray well graded GRAVELLY SAND (SWG) with trace silt, trace clay [GLACIAL OUTWASH] - dry, medium dense to dense	4	SS		12	13-14-12 [26]						
744	12													
742	14			5	SS		11	15-14-15 [29]						
740	16													
738	18			6	SS		8	19-19-21 [40]						
736	20													
734	22		Boring Terminated at 20 feet - No Refusal											
732	24													
730	26													
728	28													
726	30													
724	32													
722	34													

Depth to Groundwater

- Noted on Drilling Tools _____ ft.
- ▽ At Completion _____ ft.
- ▼ After _____ hours _____ ft.
- ⊠ Cave Depth _____ ft.

Sample Type

- SPT- Standard Penetration Test
- SS- Split Spoon
- ST- Shelby Tube
- RC- Rock Core
- CU- Auger Cuttings

Boring Method

- HSA- Hollow Stem Augers
- CFA- Continuous Flight Augers
- MD- Mud Drilling

CLIENT Model Group
 PROJECT NAME Germantown Crossing
 PROJECT LOCATION 1520 Germantown Street, Dayton, Ohio

BORING # B-4
 JOB # CN220187
 LOGGED BY CG
 APPROVED BY JPH

DRILLING and SAMPLING INFORMATION

Date Started 8/22/2022 Contractor CSI
 Date Completed 8/22/2022 Boring Size 6 in.
 Drill Rig Mobile B-57 Boring Method 3.25" I.D. HSA
 Weather Overcast Hammer Type Automatic

TEST DATA

SOIL CLASSIFICATION				Sample No.	Sample Type	Sample Graphics	Recovery (in)	Standard Penetration Test Blows per 6" [N-Value] blows/foot	Qu-tsF Unconfined (Pocket Pen.) Compressive Strength	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Percent Passing #200 Sieve	Remarks
Elev. (ft)	Depth Scale	Water Level												
SURFACE ELEVATION: 755.0														
754	2		TOPSOIL (6 inches)											
			Brown poorly graded SAND with trace gravel, trace silt, trace clay [GLACIAL OUTWASH] - dry, medium dense	1	SS		11	13-14-15 [29]						
752	4			2	SS		14	3-19-7 [26]						
750	6			3	SS		12	3-19-24 [43]		18.3				
748	8		Brown SILT (ML) with trace clay, trace sand [GLACIAL OUTWASH] - moist, hard											
746	10		Brown and gray well graded GRAVELLY SAND (SWG) with trace silt, trace clay [GLACIAL OUTWASH] - dry, medium dense to very dense	4	SS		14	10-11-14 [25]						
744	12			5	SS		14	23-23-22 [45]						
742	14			6	SS		12	21-29-28 [57]						
740	16													
738	18													
736	20													
734	22		Boring Terminated at 20 feet - No Refusal											
732	24													
730	26													
728	28													
726	30													
724	32													
722	34													

Depth to Groundwater

- Noted on Drilling Tools _____ ft.
- ▽ At Completion _____ ft.
- ▼ After _____ hours _____ ft.
- ⊠ Cave Depth _____ ft.

Sample Type

- SPT- Standard Penetration Test
- SS- Split Spoon
- ST- Shelby Tube
- RC- Rock Core
- CU- Auger Cuttings

Boring Method

- HSA- Hollow Stem Augers
- CFA- Continuous Flight Augers
- MD- Mud Drilling

CLIENT Model Group BORING # B-5
 PROJECT NAME Germantown Crossing JOB # CN220187
 PROJECT LOCATION 1520 Germantown Street, Dayton, Ohio LOGGED BY CG
 APPROVED BY JPH

DRILLING and SAMPLING INFORMATION

Date Started 8/22/2022 Contractor CSI
 Date Completed 8/22/2022 Boring Size 6 in.
 Drill Rig Mobile B-57 Boring Method 3.25" I.D. HSA
 Weather Overcast Hammer Type Automatic

TEST DATA

SOIL CLASSIFICATION				Sample No.	Sample Type	Sample Graphics	Recovery (in)	Standard Penetration Test Blows per 6" [N-Value] blows/foot	Qu-tsif Unconfined (Pocket Pen.) Compressive Strength	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Percent Passing #200 Sieve	Remarks
Elev. (ft)	Depth Scale	Water Level												
SURFACE ELEVATION: 749.0														
748	2		ASPHALT (2 inches)											
			Gravel Base (5 inches)	1	SS		12	8-9-10 [19]						
746	4		Brown poorly graded SAND (SP) with gravel, trace silt, trace clay [GLACIAL OUTWASH] - dry, medium dense	2	SS		10	6-6-7 [13]				9		
744	6				3	SS		13	6-15-19 [34]					
742	8		Brown and gray well graded GRAVELLY SAND (SWG) with trace silt, trace clay [GLACIAL OUTWASH] - dry medium dense to very dense	4	SS		11	14-17-19 [36]						
740	10				5	SS		14	7-10-14 [24]					
738	12				6	SS		11	22-25-31 [56]					
736	14			7	SS		14	8-15-19 [34]						
734	16													
732	18													
730	20													
728	22													
726	24													
724	26													
722	28		Boring Terminated at 25 feet - No Refusal											
720	30													
718	32													
716	34													

Depth to Groundwater

- Noted on Drilling Tools _____ ft.
- ▽ At Completion _____ ft.
- ▼ After _____ hours _____ ft.
- ⊠ Cave Depth _____ ft.

Sample Type

- SPT- Standard Penetration Test
- SS- Split Spoon
- ST- Shelby Tube
- RC- Rock Core
- CU- Auger Cuttings

Boring Method



- HSA- Hollow Stem Augers
- CFA- Continuous Flight Augers
- MD- Mud Drilling

CLIENT Model Group BORING # B-6
 PROJECT NAME Germantown Crossing JOB # CN220187
 PROJECT LOCATION 1520 Germantown Street, Dayton, Ohio LOGGED BY CG
 APPROVED BY JPH

DRILLING and SAMPLING INFORMATION

Date Started 8/22/2022 Contractor CSI
 Date Completed 8/22/2022 Boring Size 6 in.
 Drill Rig Mobile B-57 Boring Method 3.25" I.D. HSA
 Weather Overcast Hammer Type Automatic

TEST DATA

SOIL CLASSIFICATION				Sample No.	Sample Type	Sample Graphics	Recovery (in)	Standard Penetration Test Blows per 6" [N-Value] blows/foot	Qu-tsif Unconfined (Pocket Pen.) Compressive Strength	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Percent Passing #200 Sieve	Remarks
Elev. (ft)	Depth Scale	Water Level												
SURFACE ELEVATION: 753.0														
752	2		ASPHALT (2 inches)											
			Gravel Base (3 inches)	1	SS		6	7-6-6 [12]						
750	4		Brown and gray well graded GRAVELLY SAND (SWG) with trace silt, trace clay [GLACIAL OUTWASH] - dey medium dense	2	SS		12	9-11-16 [27]						
748	6													
746	8		Boring Terminated at 5 feet - No Refusal											
744	10													
742	12													
740	14													
738	16													
736	18													
734	20													
732	22													
730	24													
728	26													
726	28													
724	30													
722	32													
720	34													

Depth to Groundwater

- Noted on Drilling Tools _____ ft.
- ▽ At Completion _____ ft.
- ▼ After _____ hours _____ ft.
- ⊠ Cave Depth _____ ft.

Sample Type

- SPT- Standard Penetration Test
- SS- Split Spoon
- ST- Shelby Tube
- RC- Rock Core
- CU- Auger Cuttings

Boring Method

- HSA- Hollow Stem Augers
- CFA- Continuous Flight Augers
- MD- Mud Drilling



CLIENT Model Group
 PROJECT NAME Germantown Crossing
 PROJECT LOCATION 1520 Germantown Street, Dayton, Ohio

BORING # B-7
 JOB # CN220187
 LOGGED BY CG
 APPROVED BY JPH

DRILLING and SAMPLING INFORMATION

Date Started 8/22/2022 Contractor CSI
 Date Completed 8/22/2022 Boring Size 6 in.
 Drill Rig Mobile B-57 Boring Method 3.25" I.D. HSA
 Weather Overcast Hammer Type Automatic

TEST DATA

SOIL CLASSIFICATION				Sample No.	Sample Type	Sample Graphics	Recovery (in)	Standard Penetration Test Blows per 6" [N-Value] blows/foot	Qu-tsf Unconfined (Pocket Pen.) Compressive Strength	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Percent Passing #200 Sieve	Remarks
Elev. (ft)	Depth Scale	Water Level												
SURFACE ELEVATION: 756.0														
			TOPSOIL (6 inches)											
754	2		Light brown SILT (ML) with sand, trace roots [FILL] - dry, stiff	1	SS	⊗	12	5-6-9 [15]		7.9				
752	4			4	SS	⊗	10	4-4-6 [10]		6.0				
750	6		Boring Terminated at 5 feet - No Refusal											
748	8													
746	10													
744	12													
742	14													
740	16													
738	18													
736	20													
734	22													
732	24													
730	26													
728	28													
726	30													
724	32													
722	34													

Depth to Groundwater

- Noted on Drilling Tools _____ ft.
- ▽ At Completion _____ ft.
- ▼ After _____ hours _____ ft.
- ⊗ Cave Depth _____ ft.

Sample Type

- SPT- Standard Penetration Test
- SS- Split Spoon
- ST- Shelby Tube
- RC- Rock Core
- CU- Auger Cuttings

Boring Method



- HSA- Hollow Stem Augers
- CFA- Continuous Flight Augers
- MD- Mud Drilling

CLIENT Model Group BORING # B-8
 PROJECT NAME Germantown Crossing JOB # CN220187
 PROJECT LOCATION 1520 Germantown Street, Dayton, Ohio LOGGED BY CG
 APPROVED BY JPH

DRILLING and SAMPLING INFORMATION

Date Started 8/22/2022 Contractor CSI
 Date Completed 8/22/2022 Boring Size 6 in.
 Drill Rig Mobile B-57 Boring Method 3.25" I.D. HSA
 Weather Overcast Hammer Type Automatic

TEST DATA

SOIL CLASSIFICATION				Sample No.	Sample Type	Sample Graphics	Recovery (in)	Standard Penetration Test Blows per 6" [N-Value] blows/foot	Qu-tsf Unconfined (Pocket Pen.) Compressive Strength	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Percent Passing #200 Sieve	Remarks
Elev. (ft)	Depth Scale	Water Level												
SURFACE ELEVATION: 754.0														
			TOPSOIL (6 inches)											
752	2		Brown CLAYEY SAND (SC) with gravel [FILL] - moist, medium dense	1	SS		11	7-8-4 [12]						
750	4		Brown CLAYEY SAND (SC) with gravel [GLACIAL OUTWASH] - moist, medium dense	2	SS		13	3-5-7 [12]						
748	6													
746	8		Boring Terminated at 5 feet - No Refusal											
744	10													
742	12													
740	14													
738	16													
736	18													
734	20													
732	22													
730	24													
728	26													
726	28													
724	30													
722	32													
720	34													

Depth to Groundwater

- Noted on Drilling Tools _____ ft.
- ▽ At Completion _____ ft.
- ▼ After _____ hours _____ ft.
- ⊠ Cave Depth _____ ft.

Sample Type

- SPT- Standard Penetration Test
- SS- Split Spoon
- ST- Shelby Tube
- RC- Rock Core
- CU- Auger Cuttings

Boring Method

- HSA- Hollow Stem Augers
- CFA- Continuous Flight Augers
- MD- Mud Drilling

CLIENT Model Group BORING # B-9
 PROJECT NAME Germantown Crossing JOB # CN220187
 PROJECT LOCATION 1520 Germantown Street, Dayton, Ohio LOGGED BY CG
 APPROVED BY JPH

DRILLING and SAMPLING INFORMATION

Date Started 8/22/2022 Contractor CSI
 Date Completed 8/22/2022 Boring Size 6 in.
 Drill Rig Mobile B-57 Boring Method 3.25" I.D. HSA
 Weather Overcast Hammer Type Automatic

TEST DATA

SOIL CLASSIFICATION				Sample No.	Sample Type	Sample Graphics	Recovery (in)	Standard Penetration Test Blows per 6" [N-Value] blows/foot	Qu-tsif Unconfined (Pocket Pen.) Compressive Strength	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Percent Passing #200 Sieve	Remarks
Elev. (ft)	Depth Scale	Water Level												
SURFACE ELEVATION: 749.0														
748	2		ASPHALT (2 inches)											
			Gravel Base (5 inches)	1	SS	⊗	13	6-4-3 [7]	2	12.2				
746	4		Brown SANDY LEAN CLAY (CLS) with trace gravel, noted brick fragment											
744	6		[FILL] - moist, firm	2	SS	⊗	14	2-2-2 [4]						
742	8		Brown CLAYEY SAND (SC) with gravel											
740	10		[FILL] - moist, very loose											
	12		Boring Terminated at 5 feet - No Refusal											
738	14													
736	16													
734	18													
732	20													
730	22													
728	24													
726	26													
724	28													
722	30													
720	32													
718	34													

Depth to Groundwater

- Noted on Drilling Tools _____ ft.
- ▽ At Completion _____ ft.
- ▼ After _____ hours _____ ft.
- ⊗ Cave Depth _____ ft.

Sample Type

- SPT- Standard Penetration Test
- SS- Split Spoon
- ST- Shelby Tube
- RC- Rock Core
- CU- Auger Cuttings

Boring Method

- HSA- Hollow Stem Augers
- CFA- Continuous Flight Augers
- MD- Mud Drilling

CLIENT Model Group BORING # B-10
 PROJECT NAME Germantown Crossing JOB # CN220187
 PROJECT LOCATION 1520 Germantown Street, Dayton, Ohio LOGGED BY CG
 APPROVED BY JPH

DRILLING and SAMPLING INFORMATION

Date Started 8/22/2022 Contractor CSI
 Date Completed 8/22/2022 Boring Size 6 in.
 Drill Rig Mobile B-57 Boring Method 3.25" I.D. HSA
 Weather Overcast Hammer Type Automatic

TEST DATA

SOIL CLASSIFICATION				Sample No.	Sample Type	Sample Graphics	Recovery (in)	Standard Penetration Test Blows per 6" [N-Value] blows/foot	Qu-tsF Unconfined (Pocket Pen.) Compressive Strength	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Percent Passing #200 Sieve	Remarks
Elev. (ft)	Depth Scale	Water Level												
SURFACE ELEVATION: 746.0														
744	2		ASPHALT (2 inches)											
			Gravel Base (4 inches)	1	SS	⊗	11	2-1-2 [3]	1	18.2				
742	4		Brown LEAN CLAY (CL) with sand, noted brick fragment [FILL] - moist, soft	2	SS	⊗	13	1-2-2 [4]	0.5					
740	6		Dark brown and dark gray LEAN CLAY (CL) with sand, roots and organics [FILL] - most, soft											
738	8		Boring Terminated at 5 feet - No Refusal											
736	10													
734	12													
732	14													
730	16													
728	18													
726	20													
724	22													
722	24													
720	26													
718	28													
716	30													
714	32													
712	34													

Depth to Groundwater

- Noted on Drilling Tools _____ ft.
- ▽ At Completion _____ ft.
- ▼ After _____ hours _____ ft.
- ⊗ Cave Depth _____ ft.

Sample Type

- SPT- Standard Penetration Test
- SS- Split Spoon
- ST- Shelby Tube
- RC- Rock Core
- CU- Auger Cuttings

Boring Method

- HSA- Hollow Stem Augers
- CFA- Continuous Flight Augers
- MD- Mud Drilling

FIELD TESTING PROCEDURES

Field Operations: The general field procedures employed by CSI are summarized in ASTM D 420 which is entitled "Investigating and Sampling Soils and Rocks for Engineering Purposes." This recommended practice lists recognized methods for determining soil and rock distribution and ground water conditions. These methods include geophysical and in situ methods as well as borings.

Borings are drilled to obtain subsurface samples using one of several alternate techniques depending upon the subsurface conditions. These techniques are:

- a. Continuous 2-1/2 or 3-1/4 inch I.D. hollow stem augers;
- b. Wash borings using roller cone or drag bits (mud or water);
- c. Continuous flight augers (ASTM D 1425).

These drilling methods are not capable of penetrating through material designated as "refusal materials." Refusal, thus indicated, may result from hard cemented soil, soft weathered rock, coarse gravel or boulders, thin rock seams, or the upper surface of sound continuous rock. Core drilling procedures are required to determine the character and continuity of refusal materials.

The subsurface conditions encountered during drilling are reported on a field test boring record by the chief driller. The record contains information concerning the boring method, samples attempted and recovered, indications of the presence of various materials such as coarse gravel, cobbles, etc., and observations between samples. Therefore, these boring records contain both factual and interpretive information. The field boring records are on file in our office.

The soil and rock samples plus the field boring records are reviewed by a geotechnical engineer. The engineer classifies the soils in general accordance with the procedures outlined in ASTM D 2488 and prepares the final boring records which are the basis for all evaluations and recommendations.

The final boring records represent our interpretation of the contents of the field records based on the results of the engineering examinations and tests of the field samples. These records depict subsurface conditions at the specific locations and at the particular time when drilled. Soil conditions at other locations may differ from conditions occurring at these boring locations. Also, the passage of time may result in a change in the subsurface soil and ground water conditions at these boring locations. The lines designating the interface between soil or refusal materials on the records and on profiles represent approximate boundaries. The transition between materials may be gradual. The final boring records are included with this report.

The detailed data collection methods used during this study are discussed on the following pages.

Soil Test Borings: Soil test borings were made at the site at locations shown on the attached Boring Plan. Soil sampling and penetration testing were performed in accordance with ASTM D 1586.

The borings were made by mechanically twisting a hollow stem steel auger into the soil. At regular intervals, the drilling tools were removed and soil samples obtained with a standard 1.4 inch I.D., 2 inch O.D., split tube sampler. The sampler was first seated 6 inches to penetrate any loose cuttings, then driven an additional foot with blows of a 140-pound hammer falling 30 inches. The number of hammer blows required to drive the sampler the final foot was recorded and is designated the "penetration resistance". The penetration resistance, when properly evaluated, is an index to the soil strength and foundation supporting capability.

Representative portions of the soil samples, thus obtained, were placed in glass jars and transported to the laboratory. In the laboratory, the samples were examined to verify the driller's field classifications. Test Boring Records are attached which graphically show the soil descriptions and penetration resistances.

Core Drilling: Refusal materials are materials that cannot be penetrated with the soil drilling methods employed. Refusal, thus indicated, may result from hard cemented soil, soft weathered rock, coarse gravel or boulders, thin rock seams or the upper surface of sound continuous rock. Core drilling procedures are required to determine the character and continuity of refusal materials.

Prior to coring, casing is set in the drilled hole through the overburden soils, if necessary, to keep the hole from caving. Refusal materials are then cored according to ASTM D 2113 using a diamond-studded bit fastened to the

end of a hollow double tube core barrel. This device is rotated at high speeds, and the cuttings are brought to the surface by circulating water. Core samples of the material penetrated are protected and retained in the swivel-mounted inner tube. Upon completion of each drill run, the core barrel is brought to the surface, the core recovered is measured, the samples are removed and the core is placed in boxes for storage.

The core samples are returned to our laboratory where the refusal material is identified and the percent core recovery and rock quality designation is determined by a soils engineer or geologist. The percent core recovery is the ratio of the sample length obtained to the depth drilled, expressed as a percent. The rock quality designation (RQD) is obtained by summing up the length of core recovered, including only the pieces of core which are four inches or longer, and dividing by the total length drilled. The percent core recovery and RQD are related to soundness and continuity of the refusal material. Refusal material descriptions, recoveries, and RQDs are shown on the "Test Boring Records".

Hand Auger Borings and Dynamic Cone Penetration Testing: Hand auger borings are performed manually by CSI field personnel. This consists of manually twisting hand auger tools into the subsurface and extracting "grab" or baggie samples at intervals determined by the project engineer. At the sample intervals, dynamic cone penetration (DCP) testing is performed. This testing involves the manual raising and dropping of a 20 pound hammer, 18 inches. This "driver" head drives a solid-1¾ inch diameter cone into the ground. DCP "counts" are the number of drops it takes for the hammer to drive three 1¾ inch increments, recorded as X-Y-Z values.

Test Pits: Test pits are excavated by the equipment available, often a backhoe or trackhoe. The dimensions of the test pits are based on the equipment used and the power capacity of the equipment. Samples are taken from the spoils of typical buckets of the excavator and sealed in jars or "Ziplock" baggies. Dynamic Cone Penetration or hand probe testing is often performed in the upper few feet as OSHA standards allow. Refusal is deemed as the lack of advancement of the equipment with reasonable to full machine effort.

Water Level Readings: Water table readings are normally taken in conjunction with borings and are recorded on the "Test Boring Records". These readings indicate the approximate location of the hydrostatic water table at the time of our field investigation. Where impervious soils are encountered (clayey soils) the amount of water seepage into the boring is small, and it is generally not possible to establish the location of the hydrostatic water table through water level readings. The ground water table may also be dependent upon the amount of precipitation at the site during a particular period of time. Fluctuations in the water table should be expected with variations in precipitation, surface run-off, evaporation and other factors.

The time of boring water level reported on the boring records is determined by field crews as the drilling tools are advanced. The time of boring water level is detected by changes in the drilling rate, soil samples obtained, etc. Additional water table readings are generally obtained at least 24 hours after the borings are completed. The time lag of at least 24 hours is used to permit stabilization of the ground water table which has been disrupted by the drilling operations. The readings are taken by dropping a weighted line down the boring or using an electrical probe to detect the water level surface.

Occasionally the borings will cave-in, preventing water level readings from being obtained or trapping drilling water above the caved-in zone. The cave-in depth is also measured and recorded on the boring records.

Summary of Laboratory Results

Borehole	Depth	Sample Type	Liquid Limit	Plastic Limit	Plasticity Index	Classification	Water Content (%)	Unconfined Compressive Strength (tsf)	Dry Density (pcf)	Wet Density (pcf)	Max. Dry Density (pcf)	Opt. Water Content (%)	CBR	Swell (%)	RQD	Percent Recovery	Percent Finer (No. 200)
B-1	1.0						11.3										
B-1	3.5																58
B-1	8.5																10
B-1	23.5																25
B-2	1.0						9.5										
B-3	1.0																21
B-3	6.0						19.4										87
B-4	6.0						18.3										
B-5	3.5																9
B-7	1.0						7.9										
B-7	3.5						6.0										
B-9	1.0						12.2										
B-10	1.0						18.2										



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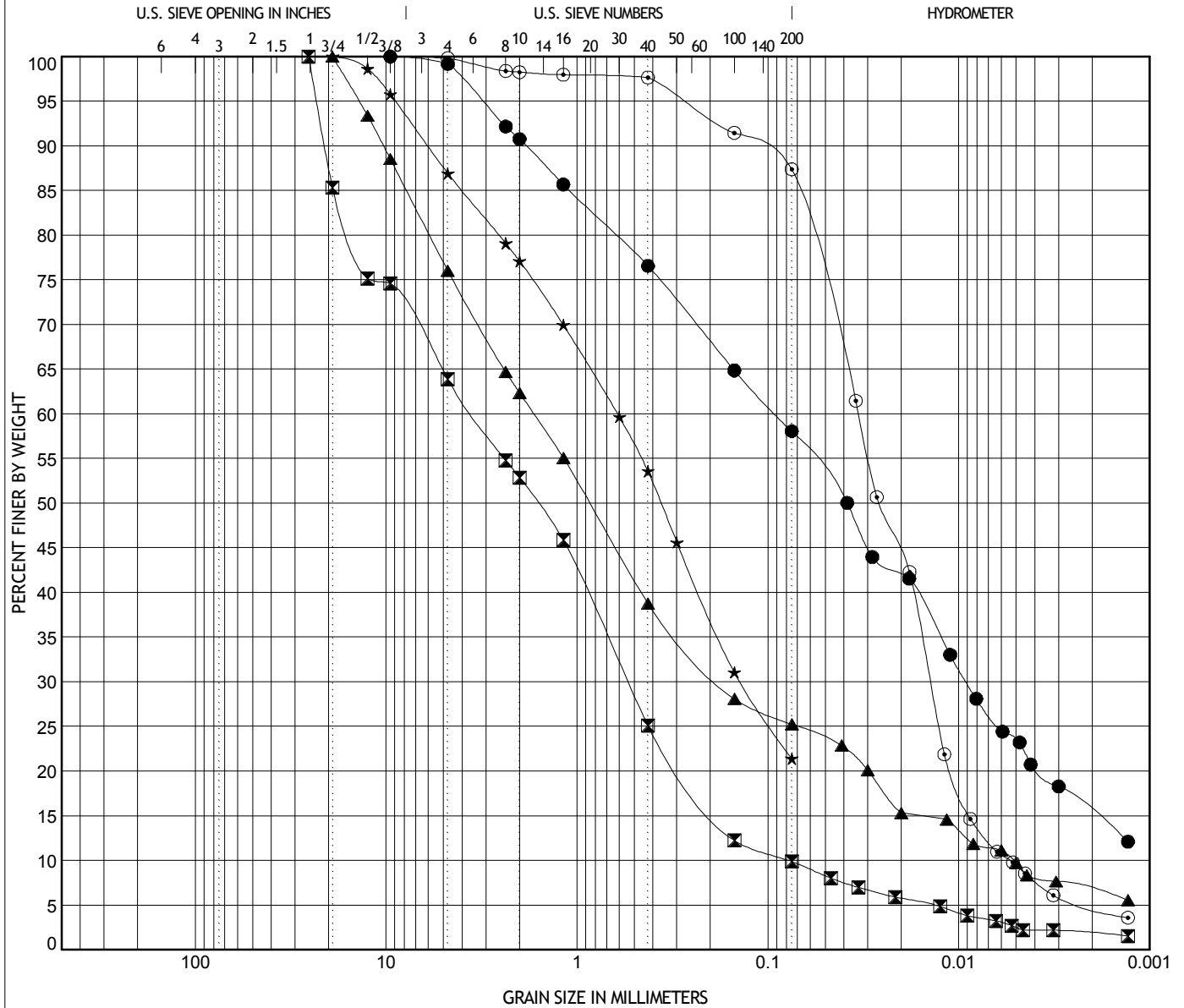
11785 Highway Drive
Cincinnati, OH 45241
Phone: 513.252.2059
Fax: 888.792.3121

SS - Split Spoon Sample
GRAB - Bulk Grab Sample

PROJECT INFORMATION

Client: Model Group
Project Name: Germantown Crossing
Project Number: CN220187
Project Location: Dayton, OH

GRAIN SIZE DISTRIBUTION



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring	Depth (ft)	Classification					LL	PL	PI	Cc	Cu
● B-1	3.5										
☒ B-1	8.5									1.06	45.02
▲ B-1	23.5									3.74	325.27
★ B-3	1.0										
⊙ B-3	6.0									1.09	6.19
Boring	Depth (ft)	D95	D60	D50	D30	D10	%Gravel	%Sand	%Silt	%Clay	
● B-1	3.5	3.131	0.091	0.038	0.009		0.8	41.1	34.6	23.4	
☒ B-1	8.5	23.049	3.522	1.611	0.541	0.078	36.1	54.0	7.4	2.5	
▲ B-1	23.5	13.853	1.687	0.859	0.181	0.005	24.0	50.8	15.5	9.7	
★ B-3	1.0	8.931	0.613	0.364	0.139		13.1	65.5	21.4		
⊙ B-3	6.0	0.272	0.033	0.026	0.014	0.005	0.2	12.4	78.0	9.4	



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LABORATORY TESTING PROCEDURES

Soil Classification: Soil classifications provide a general guide to the engineering properties of various soil types and enable the engineer to apply past experience to current problems. In our investigations, samples obtained during drilling operations are examined in our laboratory and visually classified by an engineer. The soils are classified according to consistency (based on number of blows from standard penetration tests), color and texture. These classification descriptions are included on our "Test Boring Records."

The classification system discussed above is primarily qualitative and for detailed soil classification two laboratory tests are necessary: grain size tests and plasticity tests. Using these test results the soil can be classified according to the AASHTO or Unified Classification Systems (ASTM D 2487). Each of these classification systems and the in-place physical soil properties provides an index for estimating the soil's behavior. The soil classification and physical properties obtained are presented in this report.

Rock Classification: Rock classifications provide a general guide to the engineering properties of various rock types and enable the engineer to apply past experience to current situations. In our explorations, rock core samples obtained during drilling operations are examined in our laboratory and visually classified by an engineer. The rock cores are classified according to relative hardness and RQD (see Guide to Rock Classification Terminology), color, and texture. These classification descriptions are included on our Test Boring Records.

Atterberg Limits: Portions of the samples are taken for Atterberg Limits testing to determine the plasticity characteristics of the soil. The plasticity index (PI) is the range of moisture content over which the soil deforms as a plastic material. It is bracketed by the liquid limit (LL) and the plastic limit (PL). The liquid limit is the moisture content at which the soil becomes sufficiently "wet" to flow as a heavy viscous fluid. The plastic limit is the lowest moisture content at which the soil is sufficiently plastic to be manually rolled into tiny threads. The liquid limit and plastic limit are determined in accordance with ASTM D 4318.

Moisture Content: The Moisture Content is determined according to ASTM D 2216.

Percent Finer Than 200 Sieve: Selected samples of soils are washed through a number 200 sieve to determine the percentage of material less than 0.074 mm in diameter.

Rock Strength Tests: To obtain strength data for rock materials encountered, unconfined compression tests are performed on selected samples. In the unconfined compression test, a cylindrical portion of the rock core is subjected to increasing axial load until it fails. The pressure required to produce failure is recorded, corrected for the length to diameter ratio of the core and reported.

Compaction Tests: Compaction tests are run on representative soil samples to determine the dry density obtained by a uniform compactive effort at varying moisture contents. The results of the test are used to determine the moisture content and unit weight desired in the field for similar soils. Proper field compaction is necessary to decrease future settlements, increase the shear strength of the soil and decrease the permeability of the soil.

The two most commonly used compaction tests are the Standard Proctor test and the Modified Proctor test. They are performed in accordance with ASTM D 698 and D 1557, respectively. Generally, the Standard Proctor compaction test is run on samples from building or parking areas where small compaction equipment is anticipated. The Modified compaction test is generally performed for heavy structures, highways, and other areas where large compaction equipment is expected. In both tests a representative soil sample is placed in a mold and compacted with a compaction hammer. Both tests have three alternate methods.

Test	Method	Hammer Wt./Fall	Mold Diam.	Run on Material Finer Than	No. of Layers	No. of Blows/Layer
Standard D 698	A	5.5 lb./12"	4"	No. 4 sieve	3	25
	B	5.5 lb./12"	4"	3/8" sieve	3	25
	C	5.5 lb./12"	6"	3/4" sieve	3	56

Test	Method	Hammer Wt./Fall	Mold Diam.	Run on Material Finer Than	No. of Layers	No. of Blows/Layer
Modified D 1557	A	10 lb./18"	4"	No. 4 sieve	5	25
	B	10 lb./18"	4"	3/8" sieve	5	25
	C	10 lb./18"	6"	3/4" sieve	5	56

The moisture content and unit weight of each compacted sample is determined. Usually 4 to 5 such tests are run at different moisture contents. Test results are presented in the form of a dry unit weight versus moisture content curve. The compaction method used and any deviations from the recommended procedures are noted in this report.

Laboratory California Bearing Ratio Tests: The California Bearing Ratio, generally abbreviated to CBR, is a punching shear test and is a comparative measure of the shearing resistance of a soil. It provides data that is a semi-empirical index of the strength and deflection characteristics of a soil. The CBR is used with empirical curves to design pavement structures.

A laboratory CBR test is performed according to ASTM D 1883. The results of the compaction tests are utilized in compacting the test sample to the desired density and moisture content for the laboratory California Bearing Ratio test. A representative sample is compacted to a specified density at a specified moisture content. The test is performed on a 6-inch diameter, 4.58-inch-thick disc of compacted soil that is confined in a cylindrical steel mold. The sample is compacted in accordance with Method C of ASTM D 698 or D 1557.

CBR tests may be run on the compacted samples in either soaked or unsoaked conditions. During testing, a piston approximately 2 inches in diameter is forced into the soil sample at the rate of 0.05 inch per minute to a depth of 0.5 inch to determine the resistance to penetration. The CBR is the percentage of the load it takes to penetrate the soil to a 0.1 inch depth compared to the load it takes to penetrate a standard crushed stone to the same depth. Test results are typically shown graphically.