

# DAVIDSON CC ACCESSIBILITY IMPROVEMENTS

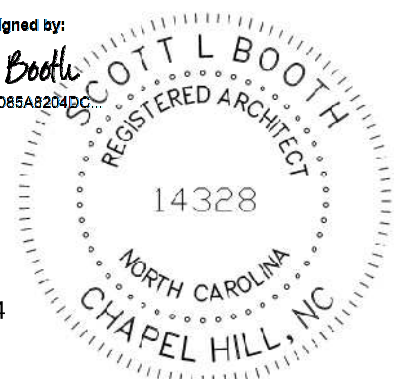
DAVIDSON CORRECTIONAL CENTER  
LEXINGTON, NC

JOB ORDER # 4369  
SCO ID # 23-26652-01A



NORTH CAROLINA DEPARTMENT OF ADULT CORRECTION

2020 YONKERS ROAD  
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Feb-19-2024

09/20/23 CD Submittal

NO. DATE REVISION

DRAWN BY: APD  
DESIGNED BY: SB  
CHECKED BY: SB  
CADD DWG NO: G-001  
JOB ORDER NO: 4369  
PLOT DATE: 09/20/23

DAVIDSON CORRECTIONAL CENTER  
LEXINGTON, NC

DAVIDSON CC ACCESSIBILITY IMPROVEMENTS

SCO ID # 23-26652-01A

COVER SHEET

G-001

### SYMBOL LEGEND

- EXTERIOR ELEVATION SYMBOL
- SECTION SYMBOL
- NORTH ARROW
- ROOM NAME AND NUMBER
- ELEVATION MARKER
- REFERENCE KEYNOTE
- SHEET KEYNOTE
- WINDOW TYPE
- DOOR TYPE
- PARTITION TYPE
- INTERIOR ELEVATION SYMBOL

### ARCHITECT / ENGINEERS OF RECORD

<b>ARCHITECT</b>	L SCOTT BOOTH	919-324-1262 scott.booth@dac.nc.gov
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<b>PLUMBING</b>	MATTHEW S. HARPER	919-324-1260 matthew.harper@dac.nc.gov
<b>ELECTRICAL</b>	ESMAEL MOVAHED	919-324-1258 esmaeil.movahed@dac.nc.gov

### DRAWING INDEX

#### GENERAL

- G-001 COVER SHEET
- G-002 ARCHITECTURAL SYMBOLS, ACCESSIBILITY
- G-003 APPENDIX B - ADMINISTRATION BLDG
- G-004 APPENDIX B - RELIGIOUS SVC. BLDG
- G-101 FIRST FLOOR ADMIN BLD LIFE SAFETY PLAN
- G-102 FIRST FLOOR CHAPEL LIFE SAFETY PLAN

#### PLUMBING

- PD-101 PLUMBING PLANS DEMO WORK
- P-001 PLUMBING LEGEND, DETAILS & SCHEDULES
- P-100 PLUMBING PLAN WATER SERVICE LOCATION
- P-101 PLUMBING PLANS NEW WORK
- P-102 PLUMBING PLAN WATER SERVICE LOCATION
- M-100 MECHANICAL PLAN

#### ELECTRICAL

- E-000 ELECTRICAL GENERAL NOTES, ABBREVIATIONS & SYMBOL LEGEND
- ED-100 ELECTRICAL DEMOLITION PLANS
- EL-100 ELECTRICAL LIGHTING & POWER PLAN

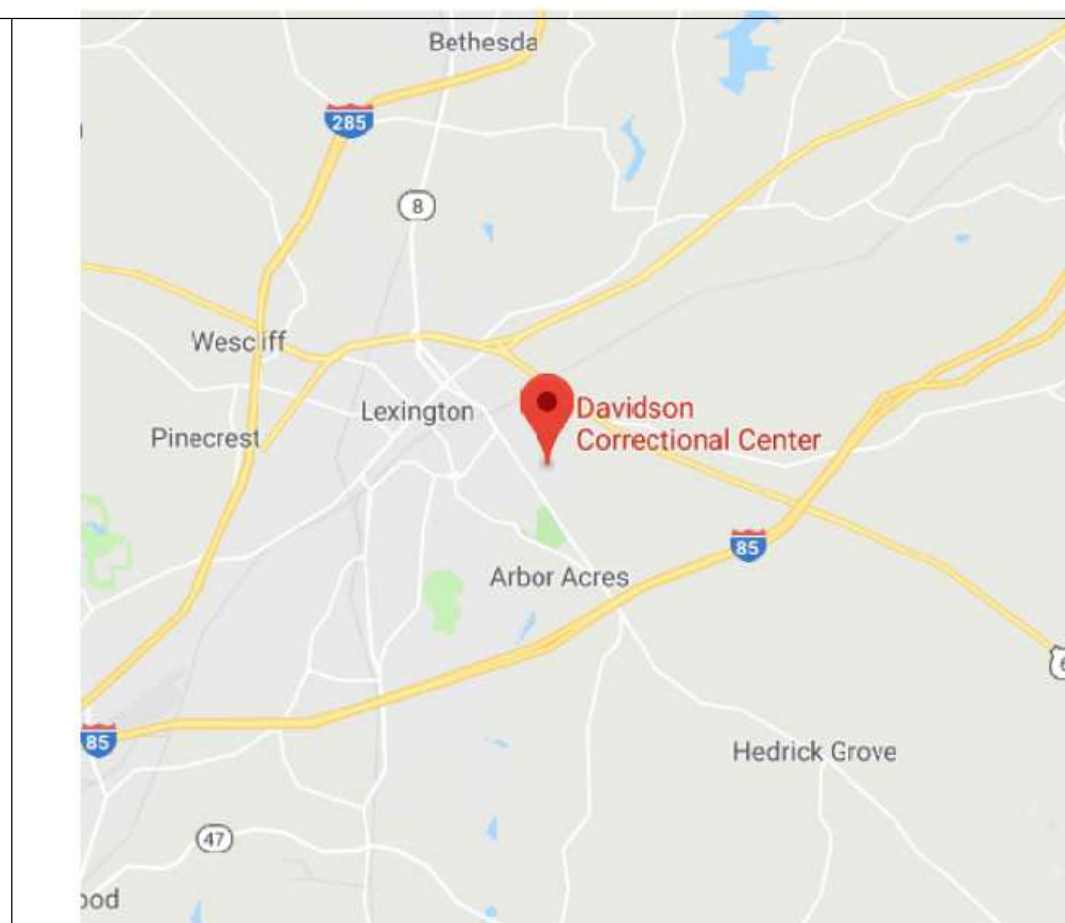
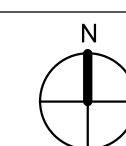
#### STRUCTURAL

- S-440 ENLARGED RAMP PLAN, DETAILS & NOTES
- S-441 ENLARGED RAMP PLAN, & SECTION
- S-442 ENLARGED RAMP PLAN, & SECTIONS & DETAILS
- S-442A ALT #1 STAIR PLAN, SECTIONS & DETAILS
- S-443 RAMP SECTIONS

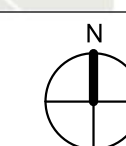
#### ARCHITECTURAL

- AD-001 ARCHITECTURAL SITE PLAN - DEMO
- AD-002 ENLARGED ARCHITECTURAL SITE PLAN - DEMO
- AD101 DEMOLITION FLOOR PLAN ADMINISTRATION BLDG
- AS100 EXISTING TOPOGRAPHIC SURVEY
- AS101 ARCHITECTURAL SITE PLAN
- AS102 ARCHITECTURAL SITE PLAN - ADMIN BUILDING
- A-100 BASEMENT FLOOR PLAN - ADMINISTRATION BUILDING
- A-101 FIRST FLOOR ADMINISTRATION DIM PLAN
- A-102 FIRST FLOOR RELIGIOUS SVC BLDG DIM PLAN
- A-201 EXTERIOR ELEVATIONS
- A-320 WALL SECTIONS & DETAILS
- A-440 ENLARGED STAIR AND RAMP PLANS
- A-441 ENLARGED RAMP PLANS & ELEVATIONS
- A-442 ENLARGED STAIR PLAN, SECTIONS & DETAILS
- A-442A ALTERNATE #1 ENLARGED STAIR PLAN, SECTIONS & DETAILS
- A-443 RAMP SECTIONS
- A-601 ROOM FINISH SCHEDULE
- A-620 DOOR AND FRAME SCHEDULES

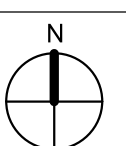
VICINITY MAP



LOCATION MAP



KEY PLAN



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2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: DAVIDSON CORRECTIONAL CENTER ACCESSIBILITY IMPROVEMENTS, (ADMIN BUILDING)
Address: 1400 THOMAS ST. LEXINGTON, NC Zip Code 27292
Owner/Authorized Agent: Phone # E-Mail
Owned By: City/County Private State
Code Enforcement Jurisdiction: City County State

CONTACT:
DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL
Architectural NC DAC CENTRAL ENGINEERING L. SCOTT BOOTH 14328 919-324-1292 SCOTT.BOOOTH@DAC.NC.GOV
Civil N/A
Electrical NC DAC CENTRAL ENGINEERING ESHMAEL MOVAHEAD 033799 919-324-1258 ESHMAEL.MOVAHEAD@NCDCPS.GOV
Fire Alarm N/A
Plumbing NC DAC CENTRAL ENGINEERING MATTHEW HARPER 27744 919-324-1280 MATTHEW.HARPER@DAC.NC.GOV
Mechanical NC DAC CENTRAL ENGINEERING MATTHEW HARPER 27744 919-324-1280 MATTHEW.HARPER@DAC.NC.GOV
Sprinkler-Standpipe N/A
Structural N/A
Retaining Walls >5' High N/A
Other N/A

2018 NC BUILDING CODE: New Building Shell/Core 1st Time Interior Completions
Addition Phased Construction - Shell Core
2018 NC EXISTING BUILDING CODE: Prescriptive Alteration Level I Historic Property
Repair Alteration Level II Change of Use
Chapter 14 Alteration Level III
CONSTRUCTED: (date) 1967 CURRENT OCCUPANCY(S) (Ch. 3): BUSINESS
RENOVATED: (date) 2024 PROPOSED OCCUPANCY(S) (Ch. 3): BUSINESS
OCCUPANCY CATEGORY (Table 1604.5): Current: II Proposed: II

BASIC BUILDING DATA
Construction Type: I-A I-B II-A II-B III-A III-B IV V-A V-B
Sprinklers: No Partial NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Class I II III Wet Dry
Primary Fire District: No Yes Flood Hazard Area: No Yes
Special Inspections Required: No Yes

GROSS BUILDING AREA TABLE
Table with 4 columns: FLOOR, EXISTING (SQ FT), NEW (SQ FT), SUB-TOTAL. Rows include 3rd Floor, 2nd Floor, Mezzanine, 1st Floor, Basement, and TOTAL.

ALLOWABLE AREA
Primary Occupancy Classification(s):
Assembly Business Educational Factory Hazardous Institutional Mercantile Residential Storage Utility and Miscellaneous
Accessory Occupancy Classification(s):
Incidental Uses (Table 509):
This separation is not exempt as a Non-Separated Use (see exceptions).

Special Uses (Chapter 4 - List Code Sections):
Special Provisions: (Chapter 5 - List Code Sections):
Mixed Occupancy: Separation: Exemption:
Select one
Actual Area of Occupancy A + Actual Area of Occupancy B < 1
Allowable Area of Occupancy A Allowable Area of Occupancy B
STORY NO. DESCRIPTION AND USE (A) BLDG AREA PER STORY (ACTUAL) (B) TABLE 506.24 AREA AREA (C) AREA FOR FRONTAGE INCREASE 1.5 (D) ALLOWABLE AREA PER STORY OR UNLIMITED 2.3

1 Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F)
b. Total Building Perimeter = (P)
c. Ratio (F/P) = (F/P)
d. W = Minimum width of public way = (W)
2 Unlimited area applicable under conditions of Section 507.
3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
4 The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
5 Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT
Table with 4 columns: ALLOWABLE, SHOWN ON PLANS, CODE REFERENCE. Rows include Building Height in Feet (Table 504.3) 40 Ft. 18 Ft. TABLE 504.3 and Building Height in Stories (Table 504.4) 2 STORIES .1 STORY TABLE 504.4

LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: Yes No
Exit Signs: Yes No
Fire Alarm: Yes No
Smoke Detection Systems: Yes No
Carbon Monoxide Detection: Yes No

FIRE PROTECTION REQUIREMENTS

Table with 7 columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), RECD, RATING (W PROVIDED REDUCTION), DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, SHEET # FOR RATED PENETRATION, SHEET # FOR RATED JOINTS. Rows include Structural Frame, Bearing Walls, Exterior, Interior, Nonbearing Walls and Partitions, Exterior walls, Floor Construction, Floor Ceiling Assembly, Roof Construction, Shaft Enclosures, Corridor Separation, Party/Fire Wall Separation, Smoke Barrier Separation, Smoke Partition, Tenant/Dwelling Unit, Sleeping Unit Separation, Incidental Use Separation.

PERCENTAGE OF WALL OPENING CALCULATIONS

Table with 4 columns: FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES, DEGREE OF OPENINGS PROTECTION (TABLE 705.8), ALLOWABLE AREA (%), ACTUAL SHOWN ON PLANS (%). Row includes > 30'-0" UNLIMITED UNLIMITED.

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G-101
Fire and/or smoke rated wall locations (Chapter 7)
Assumed and real property line locations (if not on the site plan)
Exterior wall opening area with respect to distance to assumed property lines (705.8)
Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
Occupant loads for each area
Exit access travel distances (1017)
Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
Dead end lengths (1020.4)
Clear exit widths for each exit door
Actual occupant load for each exit door
A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
Location of doors with panic hardware (1010.1.10)
Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
Location of doors with electromagnetic egress locks (1010.1.9.9)
Location of doors equipped with hold-open devices
Location of emergency escape windows (1030)
The square footage of each fire area (202)
The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)
Table with 7 columns: TOTAL UNITS, ACCESSIBLE UNITS REQUIRED, ACCESSIBLE UNITS PROVIDED, TYPE A UNITS REQUIRED, TYPE A UNITS PROVIDED, TYPE B UNITS REQUIRED, TYPE B UNITS PROVIDED, TOTAL ACCESSIBLE UNITS PROVIDED.

ACCESSIBLE PARKING (SECTION 1106)
Table with 6 columns: LOT OR PARKING AREA, TOTAL # OF PARKING SPACES REQUIRED, PROVIDED, # OF ACCESSIBLE SPACES PROVIDED (REGULAR WITH 5' ACCESSIBLE, VAN SPACES WITH 12' ACCESSIBLE, 8' ACCESSIBLE), TOTAL # ACCESSIBLE PROVIDED.

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)
Table with 10 columns: USE, SPACE, EXIST'G, REQ'D, WATERCLOSETS (MALE, FEMALE, UNSEX), URINALS, LAVATORIES (MALE, FEMALE, UNSEX), SHOWERS / TUBS, DRINKING FOUNTAINS, REGULAR, ACCESSIBLE, 1 BOTTLE FILLER.

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)
NONE

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code:
Exempt Building: Provide code or statutory reference:
Climate Zone:
Method of Compliance: (If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

Roof/Ceiling Assembly (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Skylights in each assembly:
U-Value of skylight:
total square footage of skylights in each assembly:
Exterior Walls (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Openings (windows or doors with glazing):
U-Value of assembly:
Solar heat gain coefficient:
projection factor:
Door R-Values:
Walls below grade (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Floors over unconditioned space (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Horizontal/vertical requirement:
slab heated:
Floors slab on grade
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Horizontal/vertical requirement:
slab heated:

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON SHEET 1 OR 2 OF THE STRUCTURAL SHEETS)

DESIGN LOADS:
Importance Factors: Wind (F/L) Snow (S) Seismic (IE)
Live Loads: Roof Mezzanine Floor
Ground Snow Load:
Wind Load: Basic Wind Speed Exposure Category

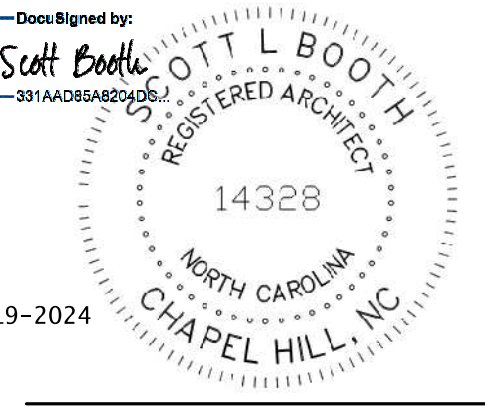
SEISMIC DESIGN CATEGORY:
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5)
Spectral Response Acceleration SS %g S1 %g
Site Classification (ASCE 7)
Data Source: Field Test Presumptive Historical Data

Basic structural system (check one)
Bearing Wall Dual w/Special Moment Frame
Building Frame Dual w/Intermediate R/C or Special Steel
Moment Frame Inverted Pendulum
Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind
SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) psf
Presumptive Bearing capacity psf
Pile size, type, and capacity



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09/20/23 CD Submittal

NO. DATE REVISION

DRAWN BY: APD

DESIGNED BY: SB

CHECKED BY: SB

CADD DWG NO: G-003

JOB ORDER NO: 4369

PLOT DATE: 09/20/23

DAVIDSON CORRECTIONAL CENTER
LEXINGTON, NC

DAVIDSON CC ACCESSIBILITY IMPROVEMENTS

SCO ID # 23-26652-01A

APPENDIX B - ADMINISTRATION BLDG

G-003

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2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: DAVIDSON CORRECTIONAL CENTER ACCESSIBILITY IMPROVEMENTS, (RELIGIOUS SVC. BLDG)
Address: 1400 THOMASON ST. LEXINGTON, NC Zip Code 27292
Owner/Authorized Agent: Phone # E-Mail
Owned By: City/County Private State
Code Enforcement Jurisdiction: City County State

CONTACT:
DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL
Architectural NC DAC CENTRAL ENGINEERING L. SCOTT BOOTH 14328 919-324-1262 SCOTT.BOOTH@DAC.NC.GOV
Civil N/A
Electrical NC DAC CENTRAL ENGINEERING ESMAEL MOVAHEAD 233789 919-324-1258 ESMAEL.MOVAHEAD@DAC.NC.GOV
Fire Alarm N/A
Plumbing NC DAC CENTRAL ENGINEERING MATTHEW HARPER 27744 919-324-1260 MATTHEW.HARPER@DAC.NC.GOV
Mechanical NC DAC CENTRAL ENGINEERING MATTHEW HARPER 27744 919-324-1260 MATTHEW.HARPER@DAC.NC.GOV
Sprinkler-Standpipe N/A
Structural N/A
Retaining Walls >5' High N/A
Other N/A

2018 NC BUILDING CODE: New Building Shell/Core 1st Time Interior Completions
Addition Phased Construction - Shell Core
2018 NC EXISTING BUILDING CODE: Prescriptive Alteration Level I Historic Property
Repair Alteration Level II Change of Use
Chapter 14 Alteration Level III
CONSTRUCTED: (date) 2010 CURRENT OCCUPANCY(S) (Ch. 3):
RENOVATED: (date) 2024 PROPOSED OCCUPANCY(S) (Ch. 3):
OCCUPANCY CATEGORY (Table 1604.5): Current: Proposed:

BASIC BUILDING DATA
Construction Type: I-A I-B II-A II-B III-A III-B IV V-A V-B
Sprinklers: No Partial NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Class I II III Wet Dry
Primary Fire District: No Yes Flood Hazard Area: No Yes
Special Inspections Required: No Yes

Table with 4 columns: FLOOR, EXISTING (SQ FT), NEW (SQ FT), SUB-TOTAL. Rows include 3rd Floor, 2nd Floor, Mezzanine, 1st Floor, Basement, and TOTAL.

ALLOWABLE AREA
Primary Occupancy Classification(s):
Assembly Business Educational Factory Hazardous Institutional Mercantile Residential Storage Utility and Miscellaneous
Accessory Occupancy Classification(s):
Incidental Uses (Table 509):
This separation is not exempt as a Non-Separated Use (see exceptions).

Table with 5 columns: STORY NO., DESCRIPTION AND USE, (A) BLDG AREA PER STORY (ACTUAL), (B) AREA FOR FRONT/ALLOWABLE AREA PER STORY, (C) AREA FOR FRONT/ALLOWABLE AREA PER STORY INCREASE 1.5, (D) UNLIMITED 2.3.

1 Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F)
b. Total Building Perimeter = (P)
c. Ratio (F/P) = (F/P)
d. W = Minimum width of public way = (W)
2 Unlimited area applicable under conditions of Section 507.
3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
4 The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
5 Frontage increase is based on the un-sprinklered area value in Table 506.2.

Table with 4 columns: ALLOWABLE HEIGHT, ALLOWABLE, SHOWN ON PLANS, CODE REFERENCE. Rows include Building Height in Feet (Table 504.3) and Building Height in Stories (Table 504.4).

LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: Yes No
Exit Signs: Yes No
Fire Alarm: Yes No
Smoke Detection Systems: Yes No
Carbon Monoxide Detection: Yes No

FIRE PROTECTION REQUIREMENTS

Table with 7 columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), RATIO PROVIDED (REDUCTION), DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, SHEET # FOR RATED PENETRATION, SHEET # FOR RATED JOINTS. Rows include Structural Frame, Bearing Walls, Exterior, Interior, Nonbearing Walls and Partitions, Exterior walls, Interior walls and partitions, Floor Construction, Floor Ceiling Assembly, Columns Supporting Floors, Roof Construction, Roof Ceiling Assembly, Shaft Enclosures - Ext, Shaft Enclosures - Other, Corridor Separation, Party/Fire Wall Separation, Smoke Barrier Separation, Smoke Partition, Tenant/Dwelling Unit, Sleeping Unit Separation, Incidental Use Separation.

PERCENTAGE OF WALL OPENING CALCULATIONS

Table with 4 columns: FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES, DEGREE OF OPENINGS PROTECTION (TABLE 705.8), ALLOWABLE AREA (%), ACTUAL SHOWN ON PLANS (%). Row includes >30'-0" UNLIMITED UNLIMITED.

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #:
Fire and/or smoke rated wall locations (Chapter 7)
Assumed and real property line locations (if not on the site plan)
Exterior wall opening area with respect to distance to assumed property lines (705.8)
Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
Occupant loads for each area
Exit access travel distances (1017)
Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
Dead end lengths (1020.4)
Clear exit widths for each exit door
Actual occupant load for each exit door
A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
Location of doors with panic hardware (1010.1.10)
Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
Location of doors with electromagnetic egress locks (1010.1.9.9)
Location of doors equipped with hold-open devices
Location of emergency escape windows (1030)
The square footage of each fire area (202)
The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
Note any code exceptions or table notes that may have been utilized regarding the items above

Table with 7 columns: TOTAL UNITS, ACCESSIBLE UNITS REQUIRED, ACCESSIBLE UNITS PROVIDED, TYPE A UNITS REQUIRED, TYPE A UNITS PROVIDED, TYPE B UNITS REQUIRED, TYPE B UNITS PROVIDED, TOTAL ACCESSIBLE UNITS PROVIDED.

Table with 6 columns: LOT OR PARKING AREA, TOTAL # OF PARKING SPACES REQUIRED, PROVIDED, # OF ACCESSIBLE SPACES PROVIDED, TOTAL # ACCESSIBLE PROVIDED. Rows include REGULAR WITH 5' ACCESSIBLE, VAN SPACES WITH 12' ACCESSIBLE, VAN SPACES WITH 8' ACCESSIBLE.

Table with 6 columns: USE SPACE, WATERCLOSETS, URINALS, LAVATORIES, SHOWERS, DRINKING FOUNTAINS. Rows include MALE, FEMALE, UNSEX, REGULAR, ACCESSIBLE.

Table with 6 columns: USE SPACE, WATERCLOSETS, URINALS, LAVATORIES, SHOWERS, DRINKING FOUNTAINS. Rows include MALE, FEMALE, UNSEX, REGULAR, ACCESSIBLE.

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)
NONE

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code:
Exempt Building: Provide code or statutory reference:
Climate Zone:
Method of Compliance: (If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Skylights in each assembly:
U-Value of skylight:
total square footage of skylights in each assembly:

Exterior Walls (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Openings (windows or doors with glazing)
U-Value of assembly:
Solar heat gain coefficient:
projection factor:
Door R-Values:

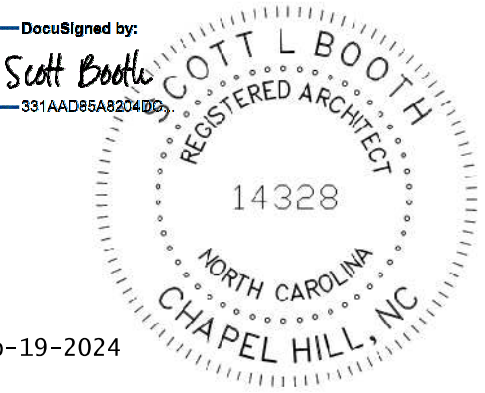
Walls below grade (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:

Floors over unconditioned space (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:

Floors slab on grade
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Horizontal/vertical requirement:
slab heated:



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Feb-19-2024
09/20/23 CD Submittal

Table with 3 columns: NO., DATE, REVISION. Multiple empty rows for revisions.

DRAWN BY: APD
DESIGNED BY: SB
CHECKED BY: SB
CADD DWG NO: G-004
JOB ORDER NO: 4369
PLOT DATE: 09/20/23

DAVIDSON CORRECTIONAL CENTER
LEXINGTON, NC

DAVIDSON CC ACCESSIBILITY IMPROVEMENTS

SCO ID # 23-26652-01A

APPENDIX B - RELIGIOUS SVC. BLDG

G-004

2/19/2024 12:23:37 PM APD

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**2018 APPENDIX B  
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS  
STRUCTURAL DESIGN  
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)**

**DESIGN LOADS:**

**Importance Factors:** Snow (IS) 1.0  
Seismic (IE) 1.0

**Live Loads:** Roof N/A psf  
Mezzanine N/A psf  
Floor 100 psf

**Ground Snow Load:** 15 psf

**Wind Load:** Ultimate Wind Speed 115 mph (ASCE-7)  
Exposure Category C

**SEISMIC DESIGN CATEGORY:**  A  B  C  D

Provide the following Seismic Design Parameters:  
Risk Category (Table 1604.5)  I  II  III  IV  
Spectral Response Acceleration SS 18.8 %g S1 8.8 %g

Site Classification (ASCE 7)  A  B  C  D  E  F  
Data Source:  Field Test  Presumptive  Historical Data

**Basic structural system**  Bearing Wall  Dual w/Special Moment Frame  
 Building Frame  Dual w/Intermediate R/C or Special Steel  
 Moment Frame  Inverted Pendulum

**Analysis Procedure:**  Simplified  Equivalent Lateral Force  Dynamic  
**Architectural, Mechanical, Components anchored?**  Yes  No

**LATERAL DESIGN CONTROL:** Earthquake  Wind

**SOIL BEARING CAPACITIES:**  
Field Test (provide copy of test report) N/A psf  
Presumptive Bearing capacity 1500 psf  
Pile size, type, and capacity N/A

**GENERAL STRUCTURAL NOTES:**

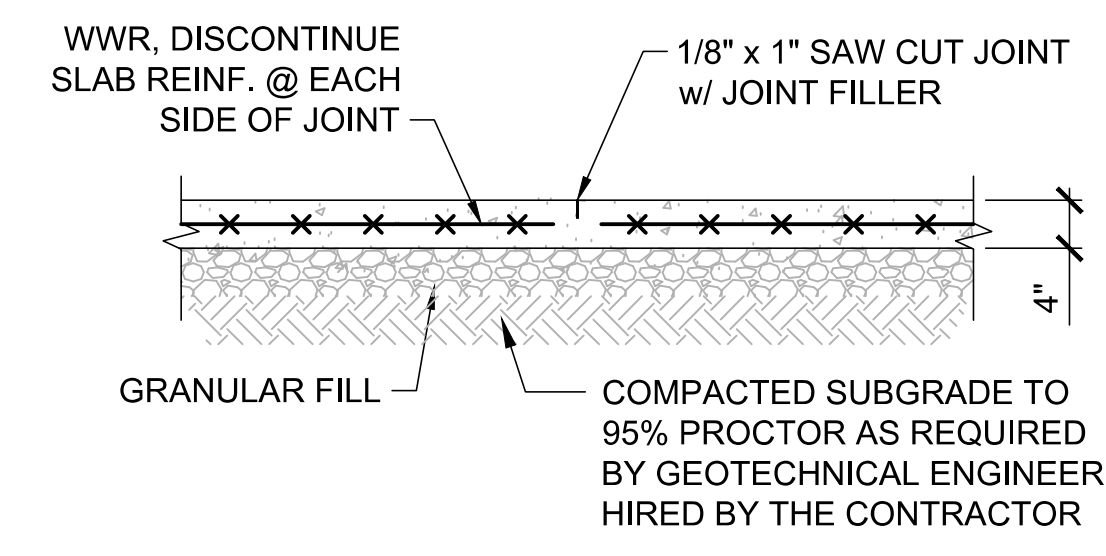
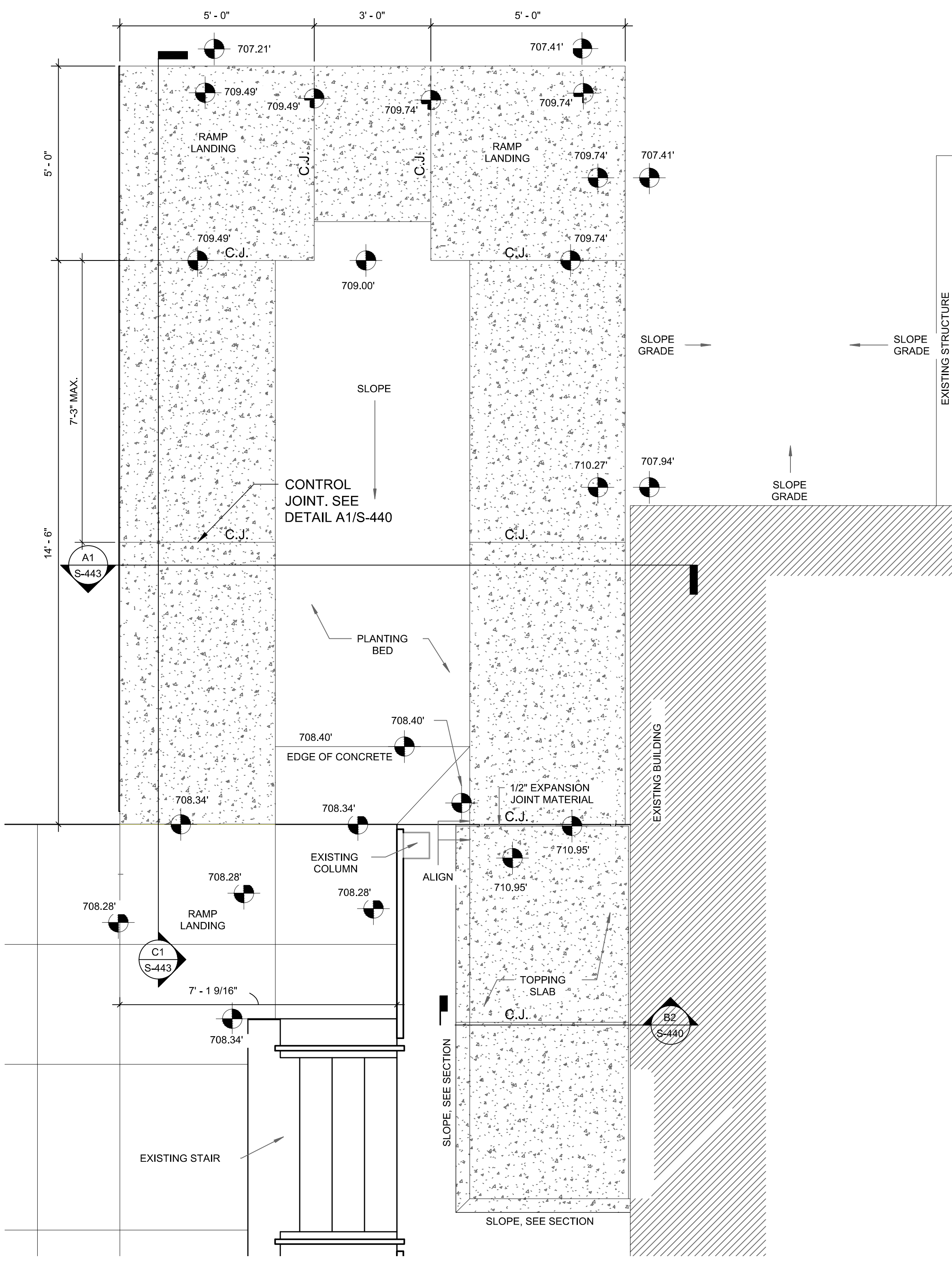
- GENERAL:**
- THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER DISCIPLINES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, PENETRATIONS, AND OTHER ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
  - WHERE SECTION IS SHOWN AND DETAILED, OTHER SECTIONS OF SIMILAR CONDITION SHALL BE DETAILED THE SAME OR OPPOSITE HAND, WHETHER SPECIFICALLY NOTED OR NOT.
  - ENGINEER'S APPROVAL MUST BE SECURED FOR ALL SUBSTITUTIONS. SUCH APPROVAL MAY ALSO BE WITHHELD AT THE SOLE DISCRETION OF THE ENGINEER.
  - THE STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE 2018 NORTH STATE CAROLINA BUILDING CODE.
  - THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.
  - CONTRACTOR SHALL IDENTIFY ANY AREAS OF EXPOSED AND CORRODED STEEL REINFORCING IN THE EXISTING CONCRETE SLABS, THAT HAVE BEEN COVERED WITH LIMESTONE OR RIGID INSULATIONS. THESE AREAS SHOULD BE REFERRED TO THE ENGINEER OF RECORD FOR RESOLUTION.

**CAST-IN-PLACE CONCRETE:**

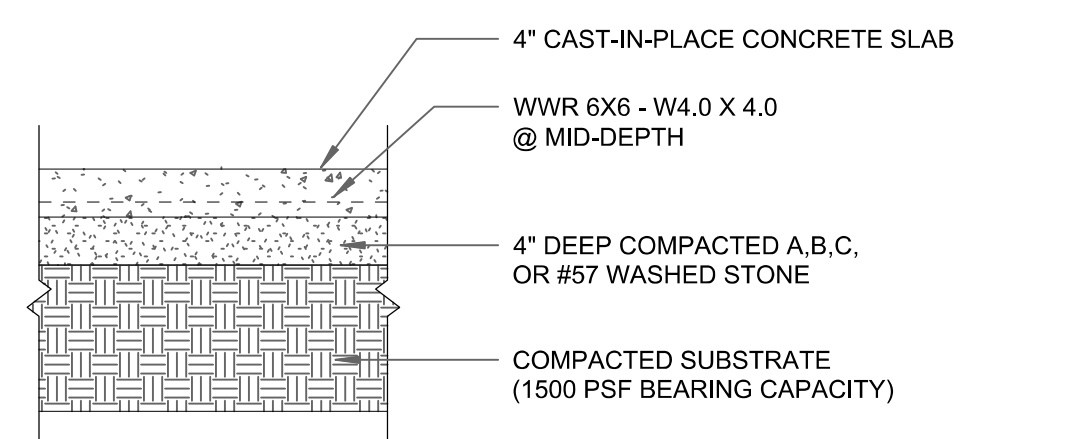
- CAST-IN-PLACE CONCRETE FOR THIS PROJECT SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND COMMENTARY" ACI 318-14 AND ACI 318R-14.
- CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:  
**STRENGTH @ 28 DAYS AIR CONTENT**  
4000 psi 5%
- ALL SLABS SHALL HAVE STEEL BROOM FINISH.
- CONCRETE FORM WORK SHALL COMPLY WITH ACI 347, LATEST EDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FORMWORK.
- DURING AND IMMEDIATELY AFTER PLACING, CONCRETE SHALL BE THOROUGHLY COMPACTED BY SPADING OR MECHANICAL VIBRATING TO PROVIDE DENSE CONCRETE FREE OF HONEY COMBING.
- DIRECTLY AFTER FORMS HAVE BEEN REMOVED, ALL EXPOSED TIE WIRES AND STAPLED ENDS SHALL BE REMOVED FROM CONCRETE SURFACES TO BE EXPOSED. CUT TIES FLUSH WITH FINISHED SURFACES FOR ALL OTHER CONCRETE. RUB SMOOTH OR CUT OFF FINS AND ROUGH PLACES. REMOVE ALL LOOSE CONCRETE AND OTHER IRREGULARITIES. PATCH AND FILL VOIDS WITH BONDING AGENT AS REQUIRED.

**CONCRETE REINFORCEMENT:**

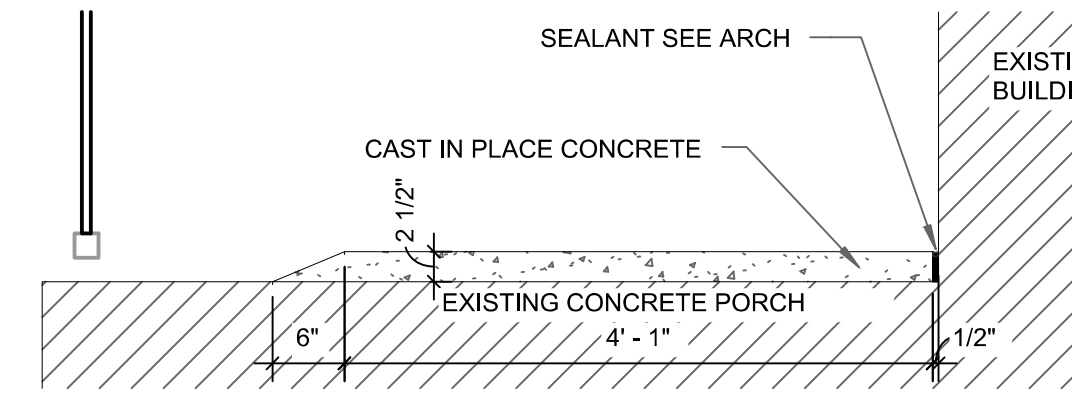
- REINFORCING STEEL SHALL CONFORM TO ASTM A615 SUPPLEMENT SI, GRADE 60, OF DOMESTIC MANUFACTURER.
- WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. WELDED WIRE REINFORCEMENT SHALL BE SUPPLIED IN FLAT SHEETS ONLY. LAP 9" MINIMUM.
- REINFORCEMENT SHALL BE FABRICATED TO SHAPES AND DIMENSIONS SHOWN AND SHALL CONFORM TO THE REQUIREMENTS OF CRSI AND ACI 318. REINFORCEMENT SHALL BE COLD BENT UNLESS OTHERWISE AUTHORIZED. BENDING MAY BE ACCOMPLISHED IN THE FIELD OR AT THE MILL. BARS SHALL NOT BE BENT AFTER EMBEDDED IN CONCRETE.
- REINFORCEMENT SHALL BE FREE FROM LOOSE RUST AND SCALE, DIRT, OIL, OR OTHER DELETERIOUS COATING THAT COULD REDUCE BOND WITH THE CONCRETE.
- NO SPLICES OF REINFORCEMENT SHALL BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED. MAKE BARS CONTINUOUS AROUND CORNERS WITH CORNER BARS. WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS SHALL BE CLASS "B" TENSION LAPS.
- WHERE HOOKS ARE SHOWN, PROVIDE STANDARD 90° HOOKS IN ACCORDANCE WITH CRSI AND ACI 318, UNLESS NOTED OTHERWISE.
- WHERE REQUIRED, PROVIDE DOWELS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING FROM FOUNDATION. DOWELS SHALL HAVE STANDARD 90° HOOKS.
- MINIMUM CONCRETE REINFORCING COVER REQUIREMENTS: 1 1/2"
- ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES SHALL BE PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.
- DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL-2004", PUBLICATION SP-66, ACI 318, AND ACI 315, OR LATEST EDITIONS.
- PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AT POSITIONS SHOWN ON PLANS.



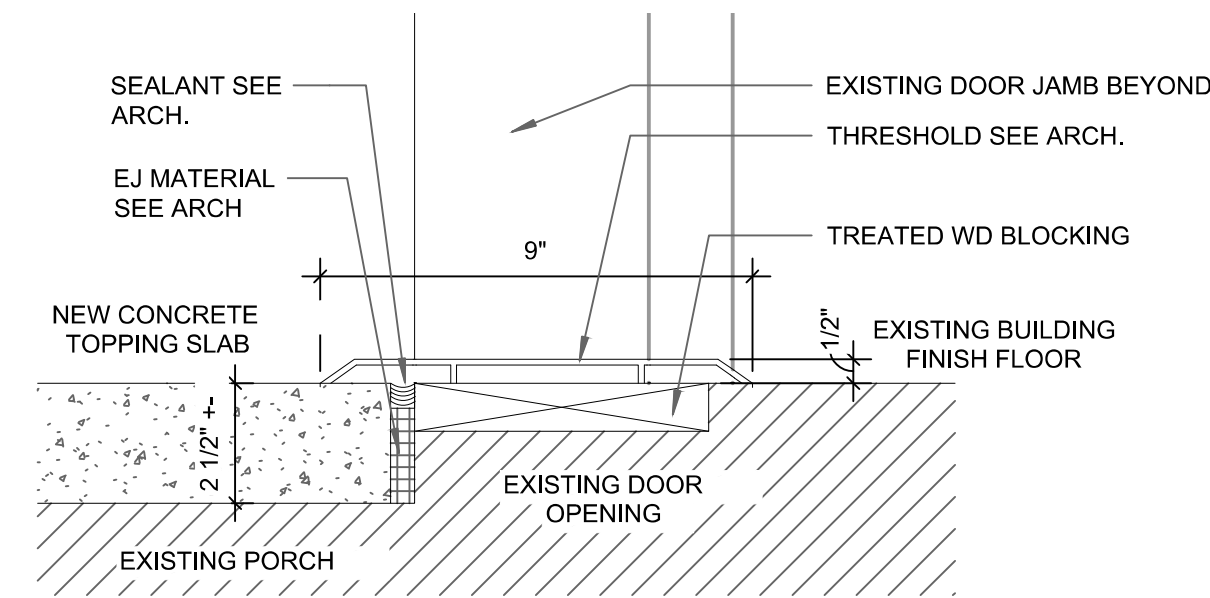
A1 CONTROL JOINT DETAIL  
3/4" = 1'-0"



B2 SIDEWALK DETAIL  
3/4" = 1'-0"



B2 PORCH TOPPING SECTION  
3/4" = 1'-0"



A2 DOOR THRESHOLD DETAIL  
3" = 1'-0"

- PLAN NOTES:**
- DIMENSIONS SHOWN AND ELEVATIONS SHOWN BY THIS PLAN ARE TO PROVIDE THE CONTRACTOR GENERAL GUIDANCE ONLY AND SHALL NOT BE USED FOR CONSTRUCTION. DIMENSIONS AND ELEVATIONS SHOWN ON ARCHITECTURAL SHEETS SHALL GOVERN.
  - CJ SPACING SHALL NOT EXCEED 7'-3" MAX.

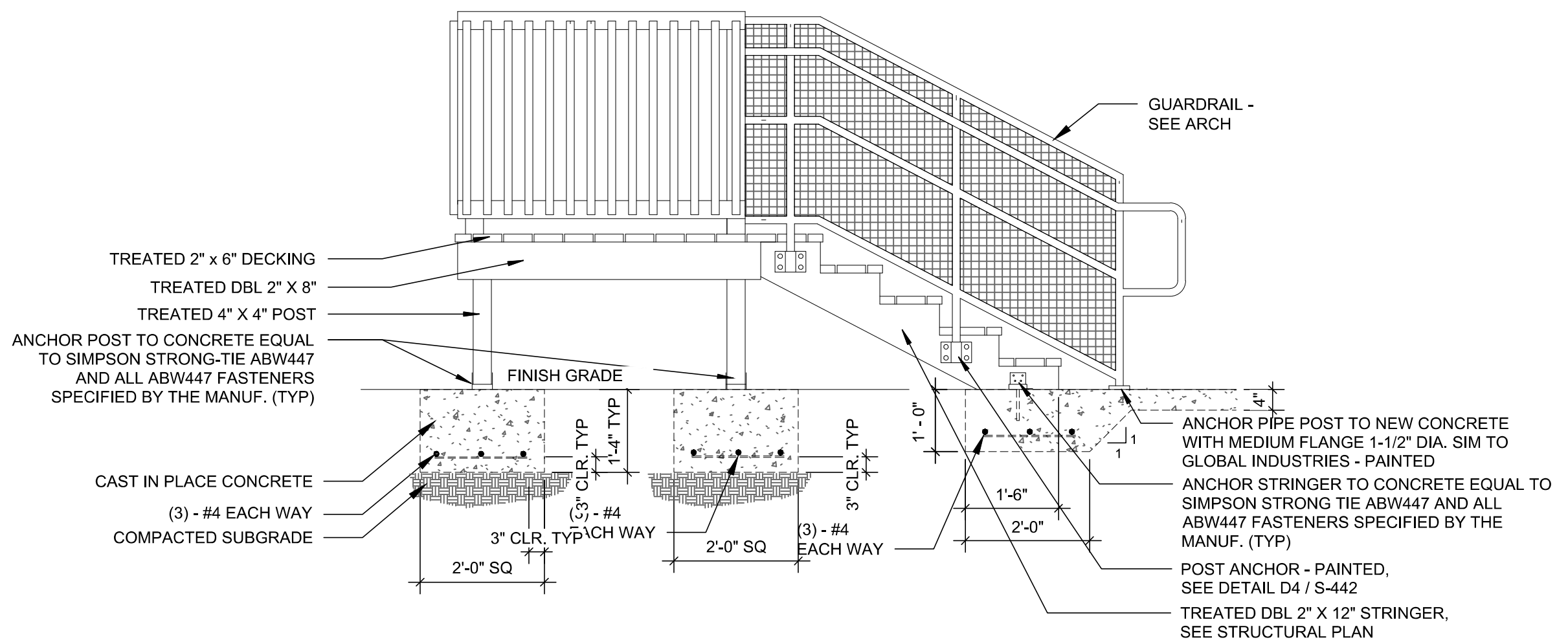
A1 RAMP 1 ENLARGED PLAN  
1/2" = 1'-0"

DESIGNER OF RECORD SEAL		DATE		DESCRIPTION OF REVISIONS	
		02/15/24			
		RAYMOND ENGINEERING GEORGIA, INC. 116 WEST MILLBROOK ROAD, SUITE 201 RALEIGH, NC 27609 919.972.7866 COM# 42492			
PROJECT INFORMATION		PROJECT DESIGNED FOR:		SHEET TITLE:	
RAYMOND PROJECT NUMBER: RAL1034.016 CLIENT'S PROJECT NUMBER: CLIENT'S REPRESENTATIVE: DATE: DRAWN: H. DABU J. SMITH APPROVED: D. WILLERS D. WILLERS NOTICE: THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED AND NOT FOR DISTRIBUTION OUTSIDE THE PROJECT OR FIRM. CONFERENCE AND AGREEMENTS THAT IT SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.		NORTH CAROLINA DEPARTMENT OF ADULT CORRECTION CORRECTION 2020 YONKERS RD. 4216 MSC RALEIGH, NC 27699-4216 TEL (919) 716-3400 FAX (919) 716-3978		DAVIDSON CC ACCESSIBILITY IMPROVEMENTS DAVIDSON CORRECTIONAL CENTER LEXINGTON, NC ENLARGED RAMP PLAN, DETAILS & NOTES	
REVISIONS		DATE		ISSUED FOR	
9		02/15/2024	100% SUBMITTAL		
8					
7					
6					
5					
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3					
2					
1					



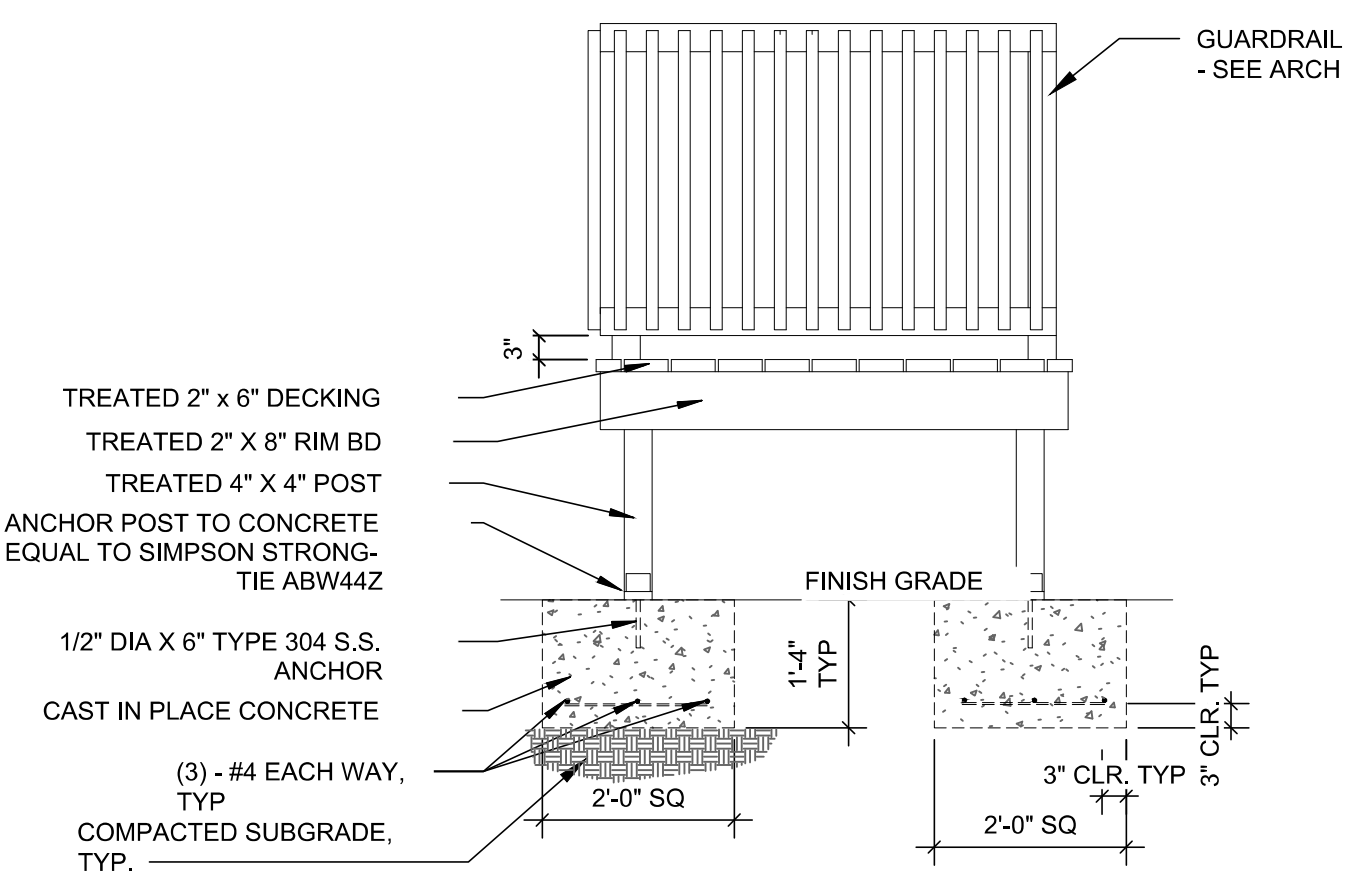


FOR DECK ATTACHMENT SEE NOTE IN SECTION C4 THIS SHEET.

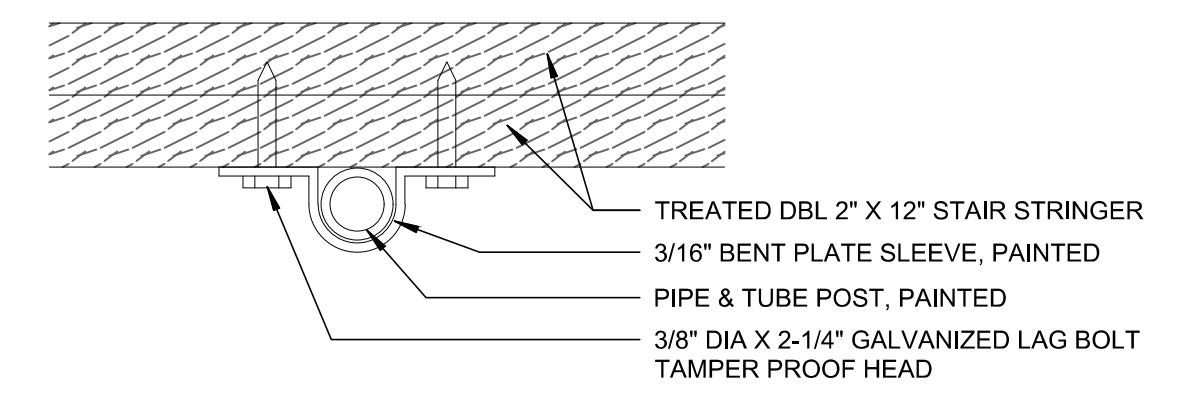


D1 WD STAIR ELEVATION  
S-442 1/2" = 1'-0"

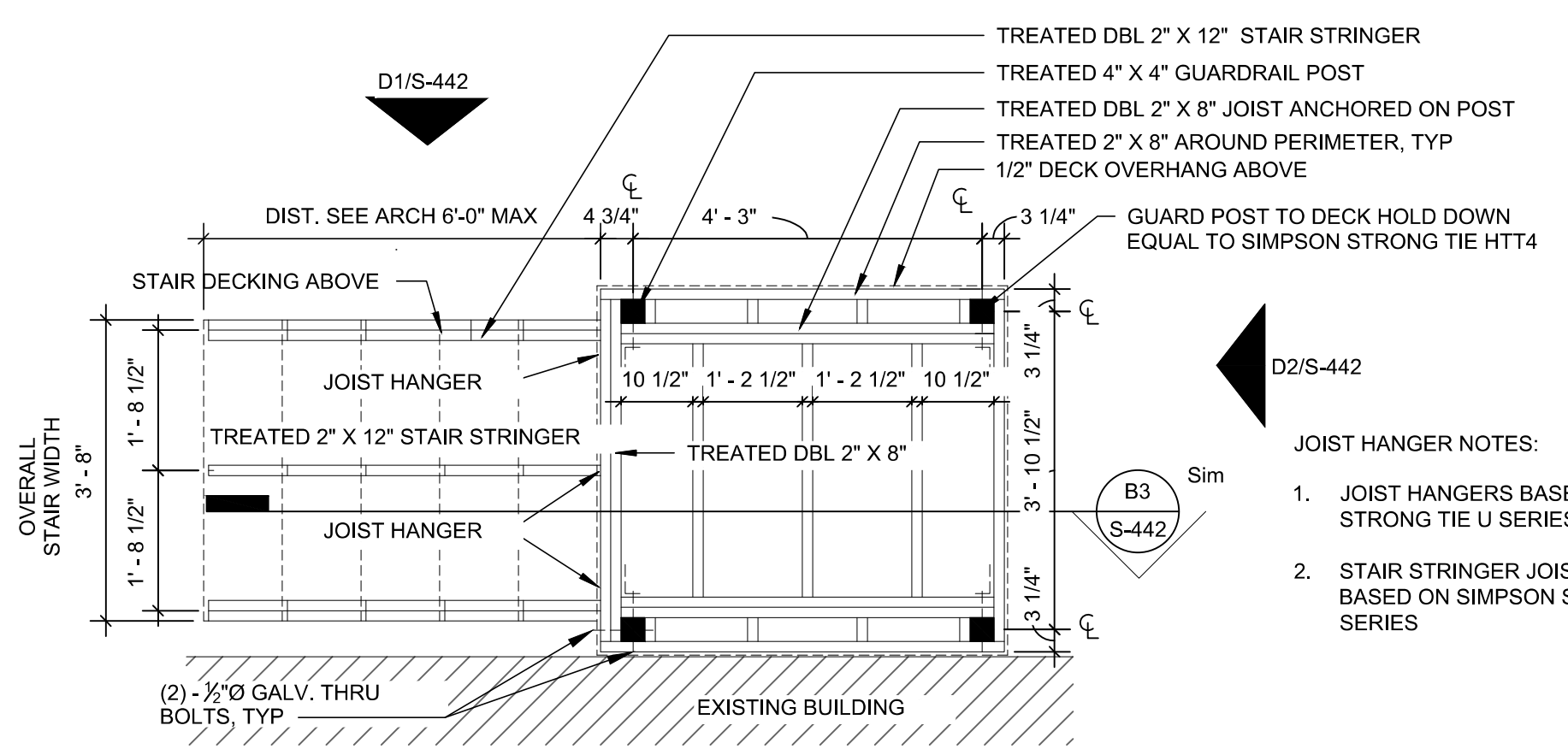
FOR DECK ATTACHMENT SEE NOTE IN SECTION C4 THIS SHEET.



D2 WD STAIR ELEVATION 2  
S-442 1/2" = 1'-0"



D4 PIPE RAIL MOUNT  
S-442 3" = 1'-0"



C1 WD STAIR DECK FRAMING PLAN  
S-442 1/2" = 1'-0"

SHEET NOTES:  
(APPLICABLE TO ALL DETAILS AND SECTIONS THIS SHEET)

- JOIST HANGERS  
BASIS OF DESIGN - SIMPSON STRONG TIE  
STRUCTURAL WD CONNECTORS MANUFACTURERS:
1. SIMPSON STRONG TIE
  2. OZCO
  3. MITEK
- PIPE & TUBE CONNECTORS, MANUFACTURERS:
1. GLOBAL INDUSTRIES
  2. STEELTEK
  3. GRAINGER INDUSTRIAL

TREATED 2" x 6" DECKING  
3" x 1/8" GALVANIZED DECK SCREWS, COUNTERSINK TAMPER PROOF HEAD

PIPE & TUBE POST, PAINTED  
3/16" BENT PLATE POST ANCHOR, PAINTED

3/8" DIA X 2-1/4" GALVANIZED LAG BOLT, TAMPER PROOF HEAD BEYOND

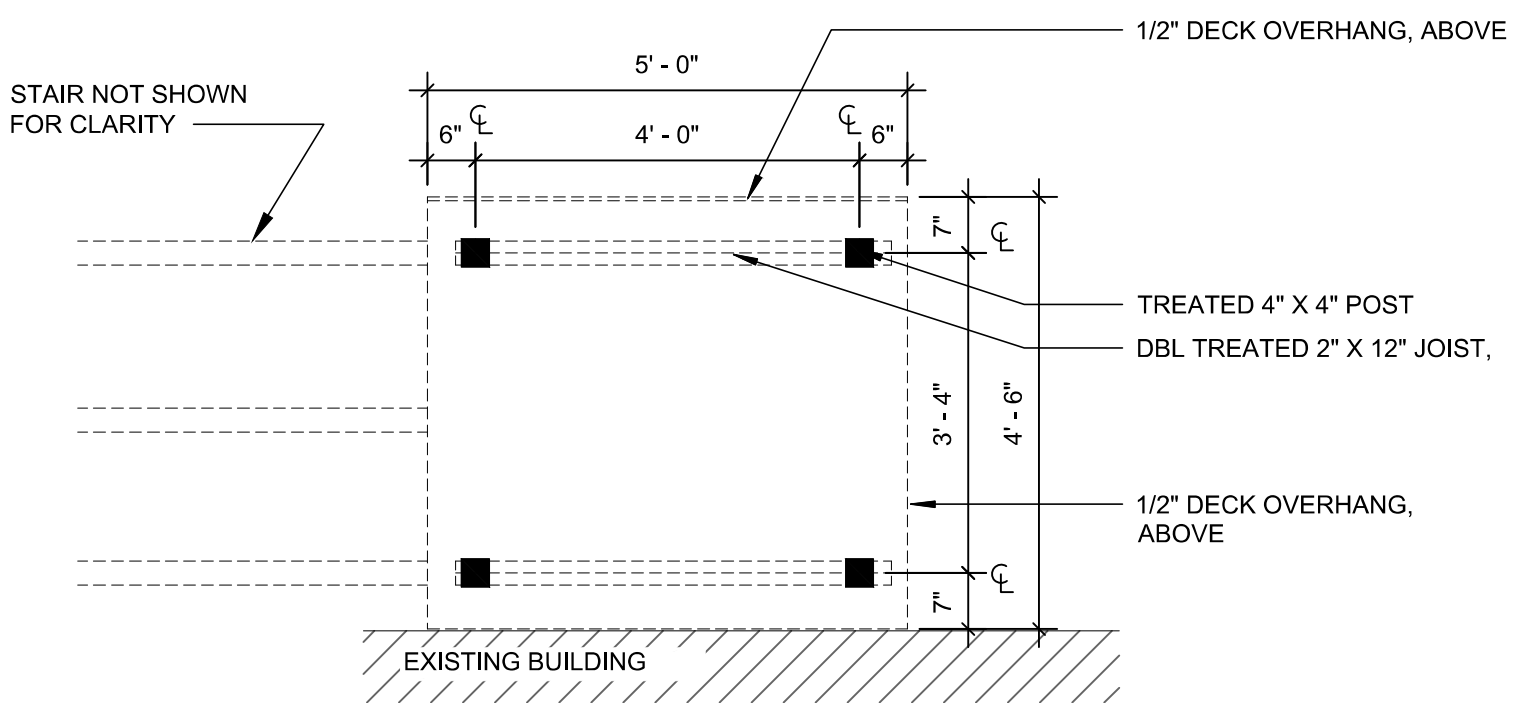
TREATED DBL 2" x 12" STAIR STRINGER

NOTE: ATTACH DECKING WITH TAMPER PROOF SCREWS 2 AT EACH END AND 2 AT MID SPAN INTO STRUCTURAL FRAMING.

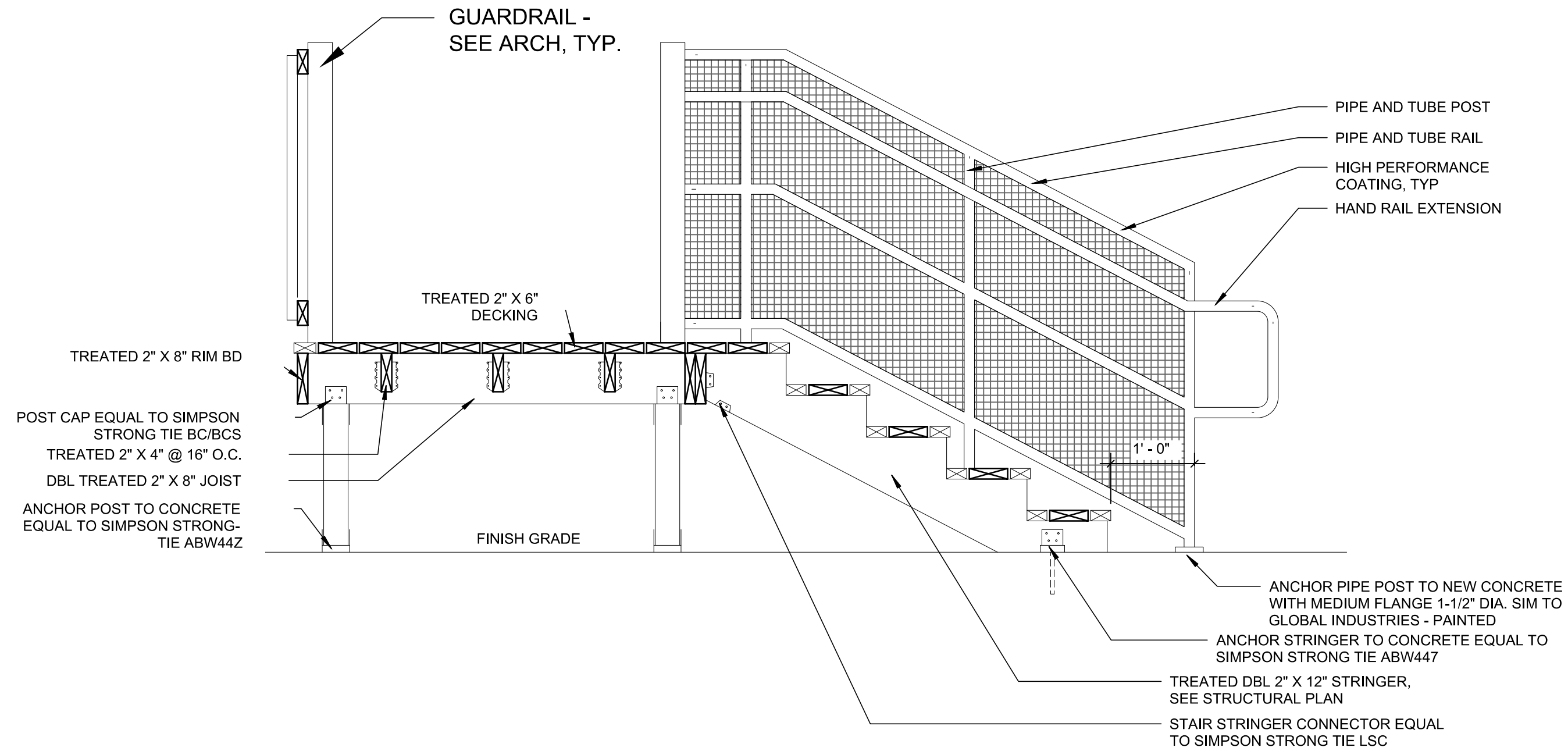
- JOIST HANGER NOTES:
1. JOIST HANGERS BASED ON SIMPSON STRONG TIE U SERIES.
  2. STAIR STRINGER JOIST HANGERS BASED ON SIMPSON STRONG TIE LSC SERIES

FOR DECKING NOT SHOWN SEE SECTIONS D1 AND D2 THIS SHEET.  
FOR DECK ATTACHMENT SEE NOTE IN SECTION C4 THIS SHEET.

C4 DETAIL AT HANDRAIL MOUNT  
S-442 3" = 1'-0"

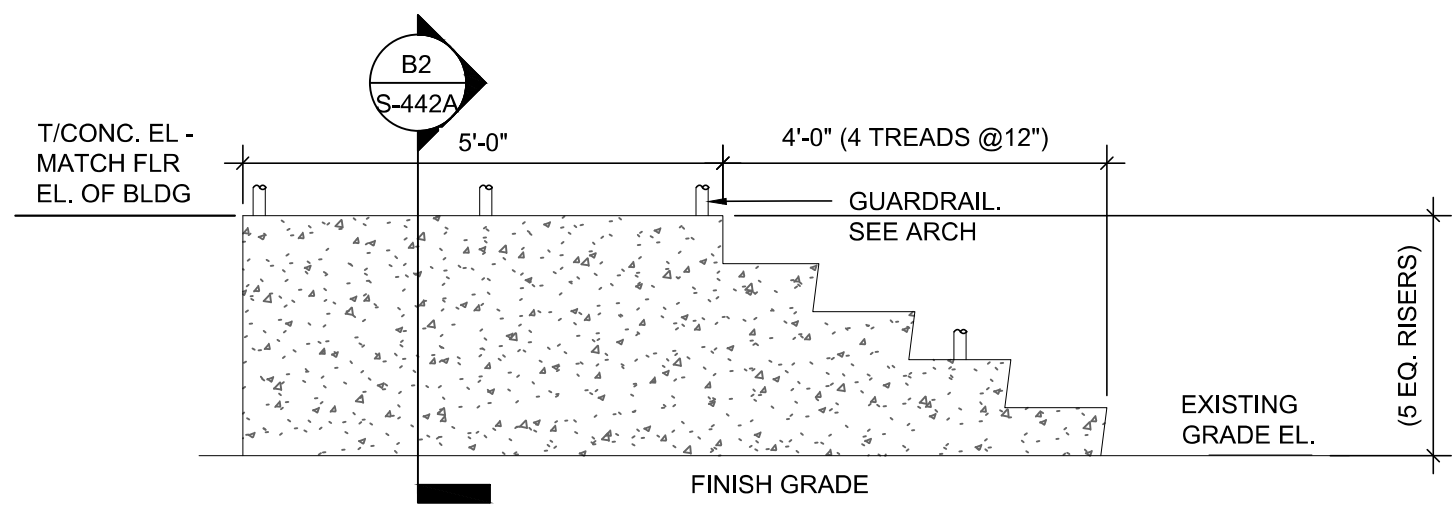


B1 WD STAIR POST PLAN  
S-442 1/2" = 1'-0"

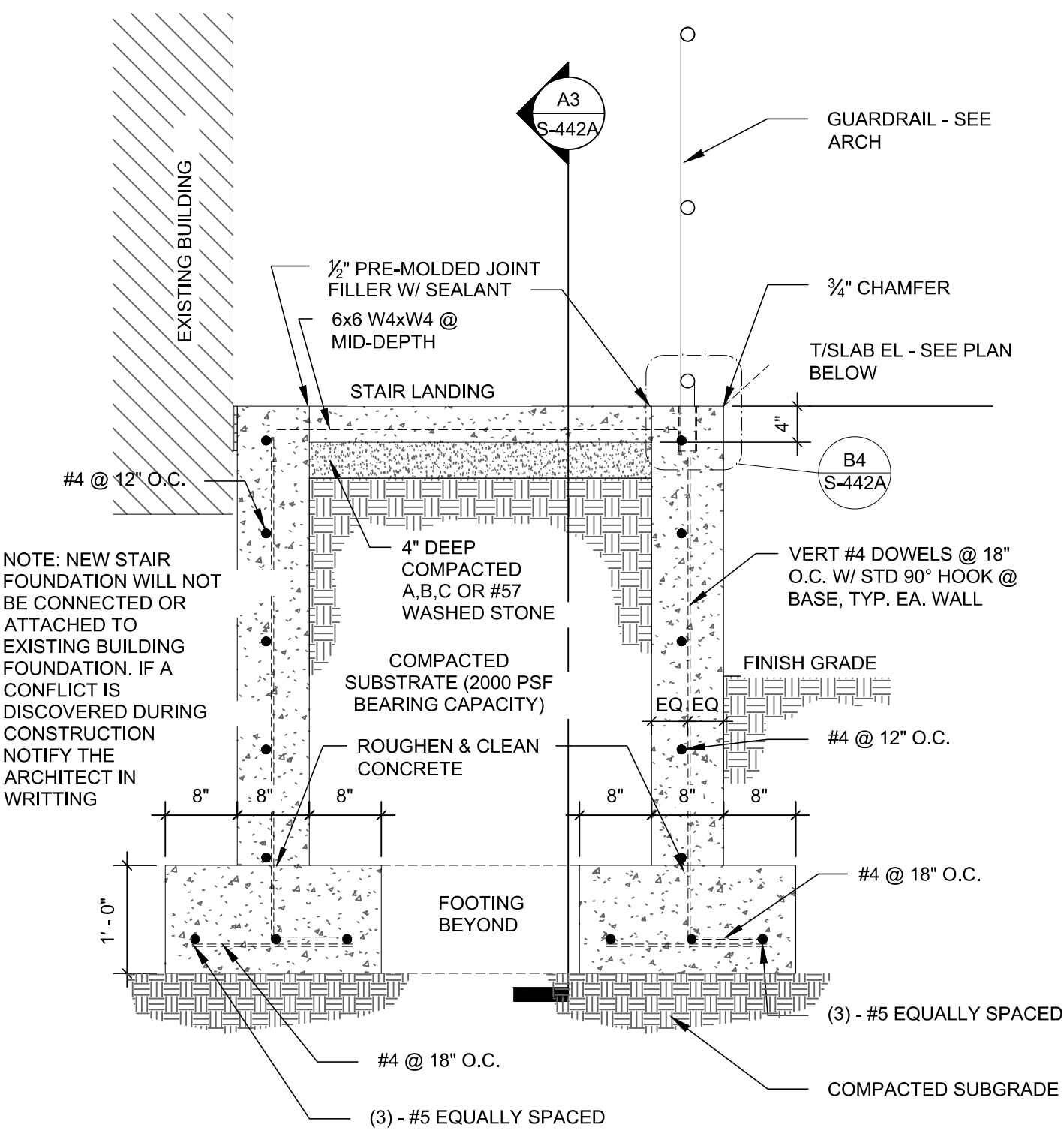


B3 WD STAIR SECTION  
S-442 3/4" = 1'-0"

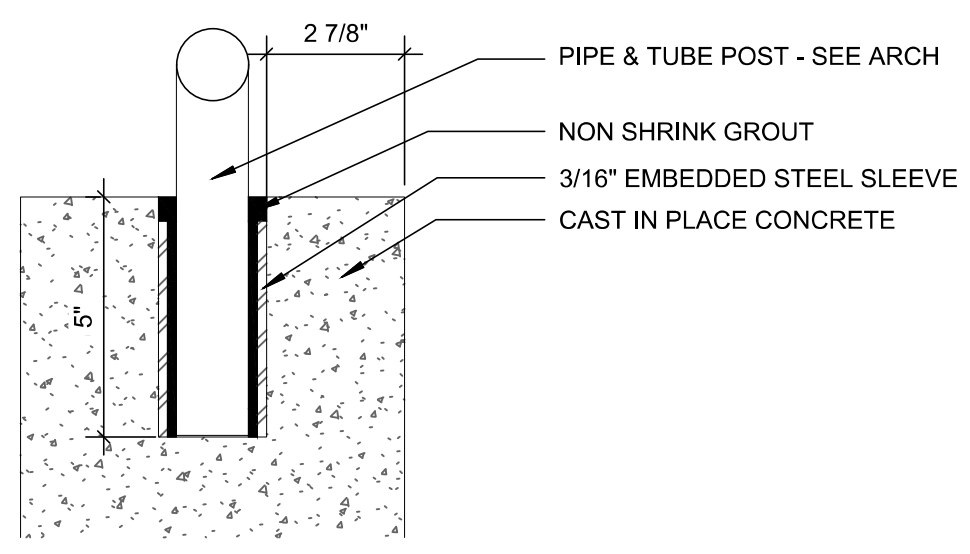
DESIGNER OF RECORD SEAL		DATE		DESCRIPTION OF REVISIONS	
		02/15/24			
PROJECT INFORMATION		DATE		ISSUED FOR	
RAYMOND PROJECT NUMBER: H. DABU CLIENT'S PROJECT NUMBER: J. SMITH CLIENT'S REPRESENTATIVE: D. WILLERS DATE: D. WILLERS		100% SUBMITTAL		100% SUBMITTAL	
PROJECT TITLE: NORTH CAROLINA DEPARTMENT OF ADULT CORRECTION CORRECTION CENTER 2020 YONKERS RD, 4216 MSC RALEIGH, NC 27699-4216 TEL (919) 716-3400 FAX (919) 716-3978		PROJECT ADDRESS: DAVIDSON CORRECTIONAL CENTER LEXINGTON, NC		SHEET TITLE: ENLARGED STAIR PLAN, SECTIONS & DETAILS	
DRAWING # S-442		REVISION #		SHEET # OF	



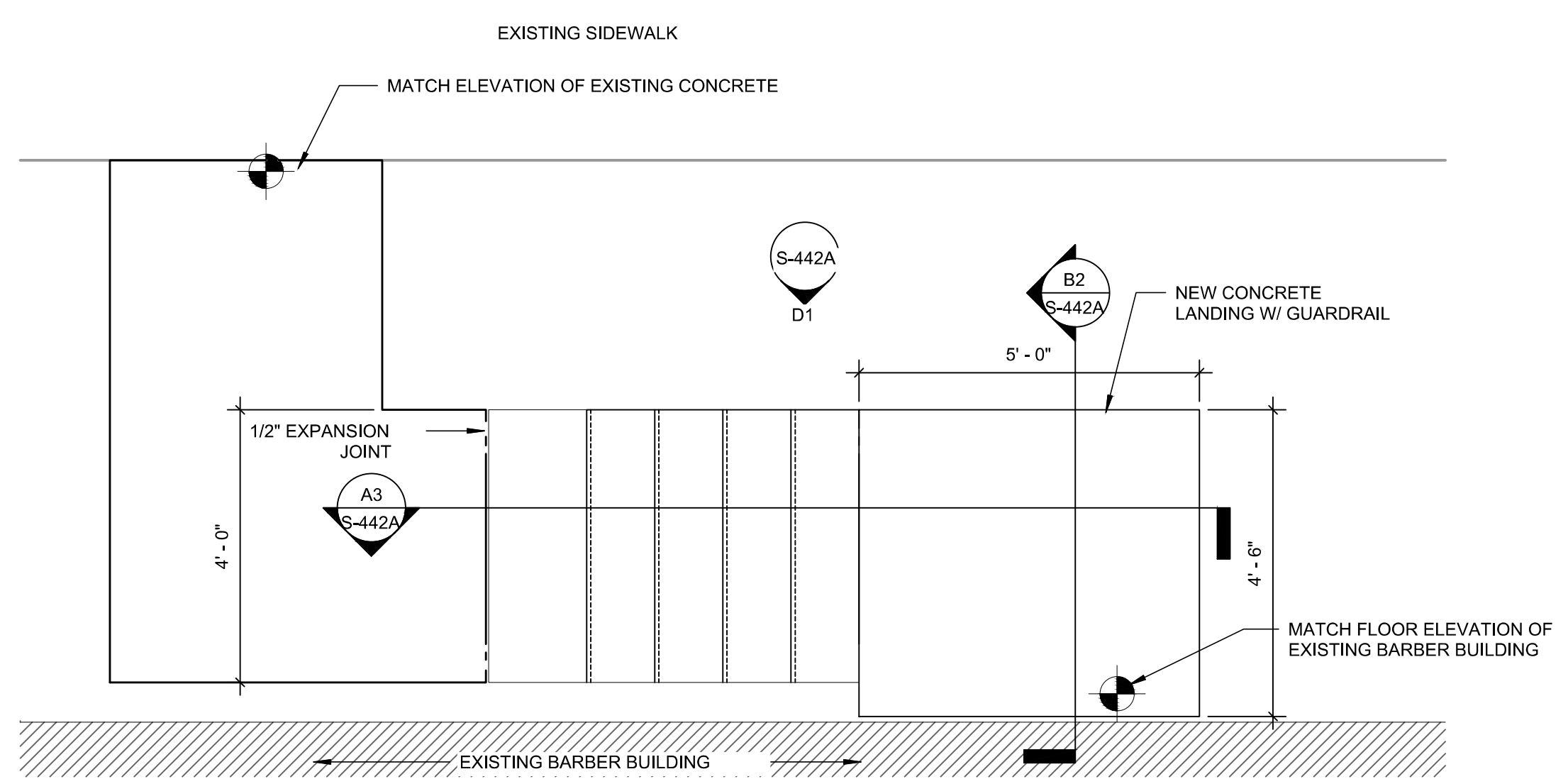
D1 STAIR ELEVATION 1  
1/2" = 1'-0"



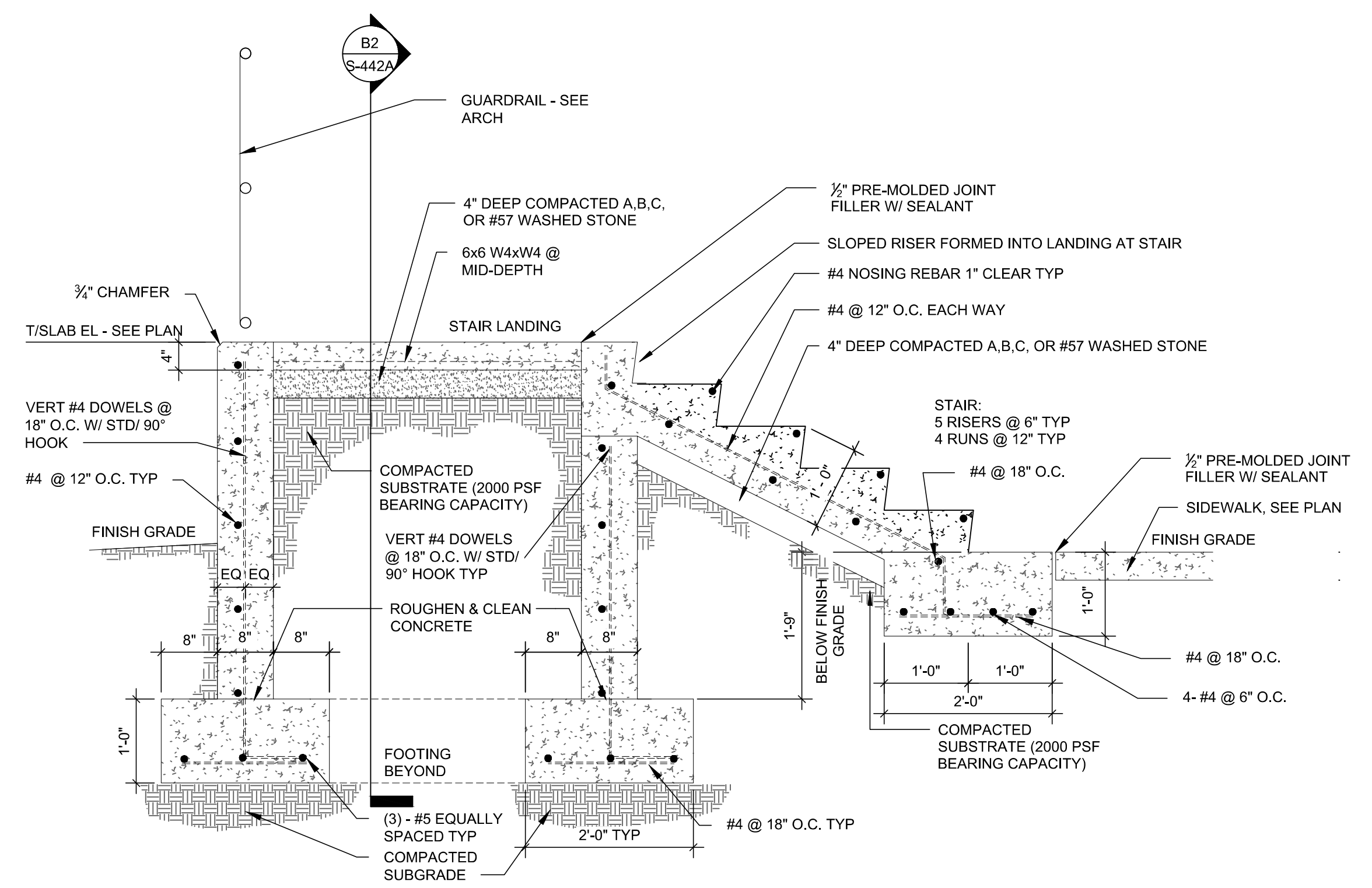
B2 STAIR SECTION 3  
3/4" = 1'-0"



B4 POST MOUNT TYP  
3" = 1'-0"



A1 STAIR PLAN AT BARBER SHOP  
1/2" = 1'-0"



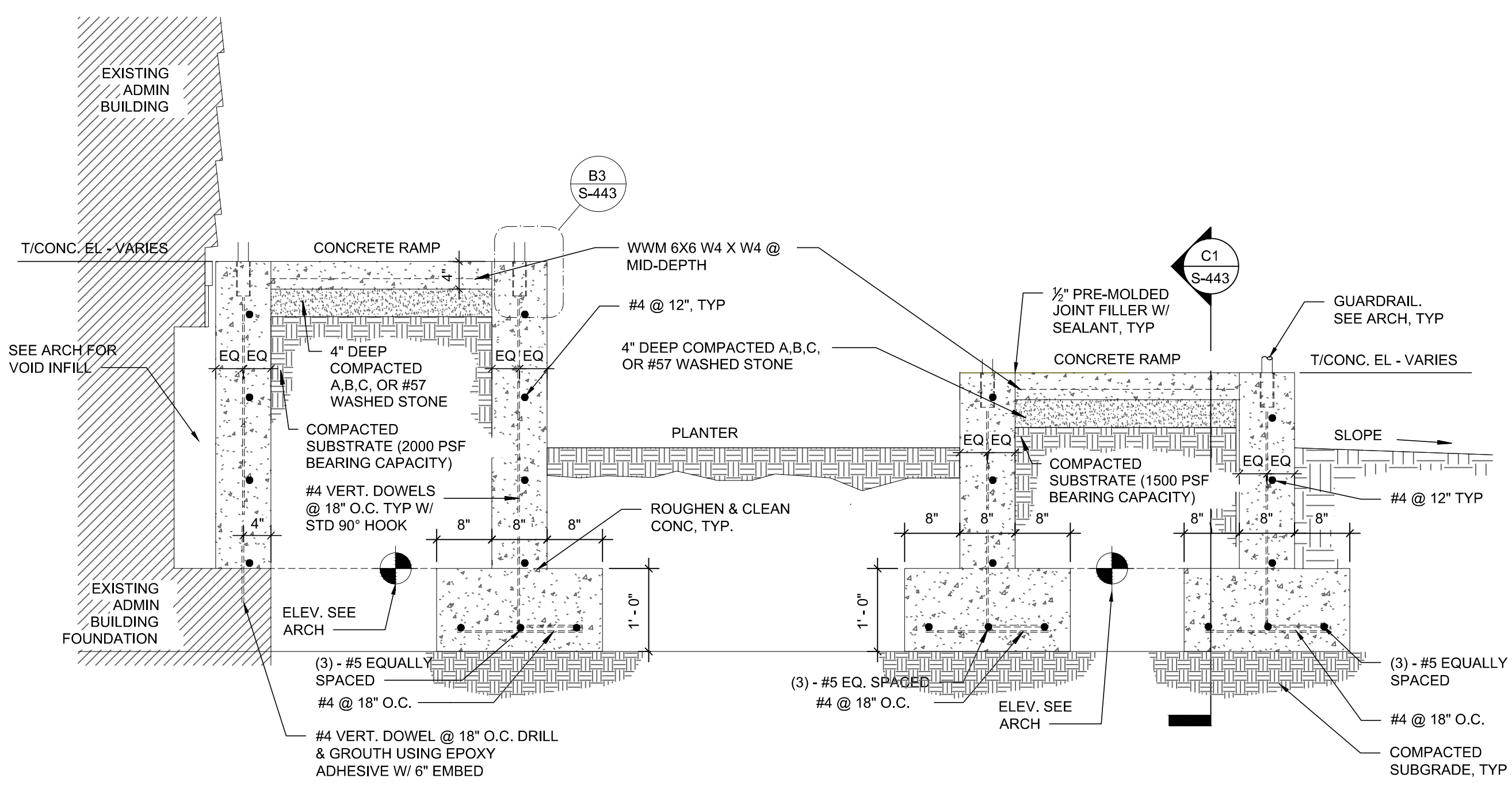
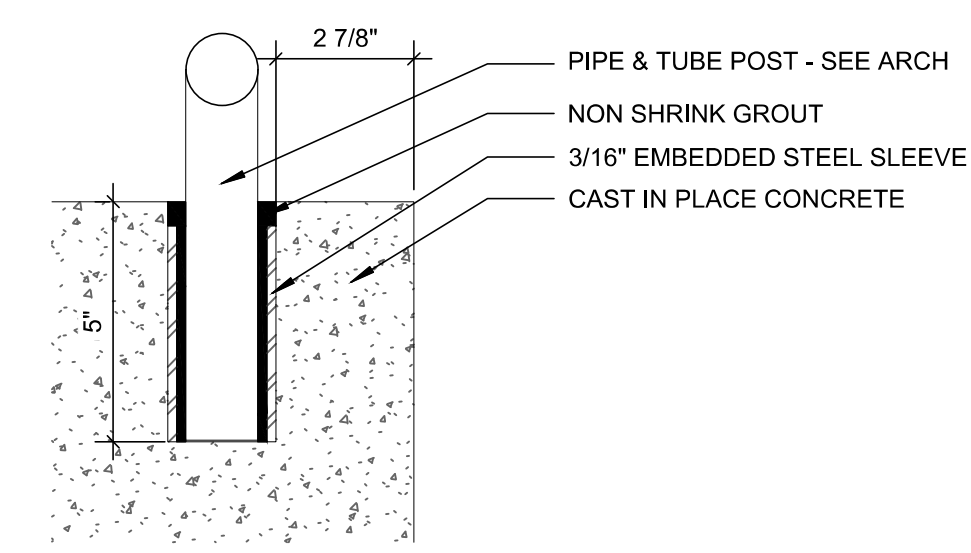
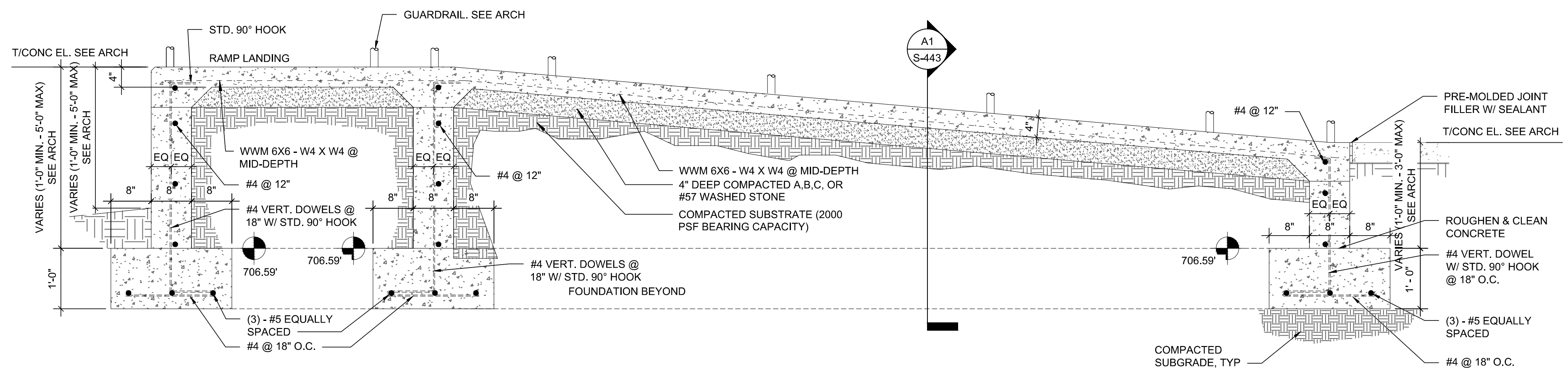
A3 STAIR SECTION 2  
3/4" = 1'-0"

		DESIGNER OF RECORD SEAL DATE: 02/15/2024 100% SUBMITTAL	ISSUED FOR DATE: 02/15/2024 100% SUBMITTAL	DESCRIPTION OF REVISIONS
9				
8				
7				
6				
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3				
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1				

PROJECT INFORMATION RAYMOND PROJECT NUMBER: RAL1034.016 CLIENT'S PROJECT NUMBER: CLIENT'S REPRESENTATIVE: DATE: DRAWN: H. DABU J. SMITH APPROVED: D. WILLERS D. WILLERS DATE: NOTICE: THE INFORMATION IN THIS DOCUMENT IS UNLESS OTHERWISE INDICATED PREPARED BY OR FOR THE EXCLUSIVE USE OF THE CLIENT. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF RAYMOND ENGINEERING, INC.	PROJECT DESIGNED FOR: NORTH CAROLINA DEPARTMENT OF ADULT CORRECTION CORRECTION 2020 YONKERS RD, 4216 MSC RALEIGH, NC 27699-4216 TEL (919) 716-3400 FAX (919) 716-3978
PROJECT TITLE: DAVIDSON CC ACCESSIBILITY IMPROVEMENTS PROJECT ADDRESS: DAVIDSON CORRECTIONAL CENTER LEXINGTON, NC	SHEET TITLE: ALT #1 STAIR PLAN, SECTIONS & DETAILS

RAYMOND ENGINEERING, INC.  
 GEORGIA, INC.  
 316 WEST MILLBROOK ROAD, SUITE 201 RALEIGH, NC, 27609  
 919.872.7896  
 COMM 24292

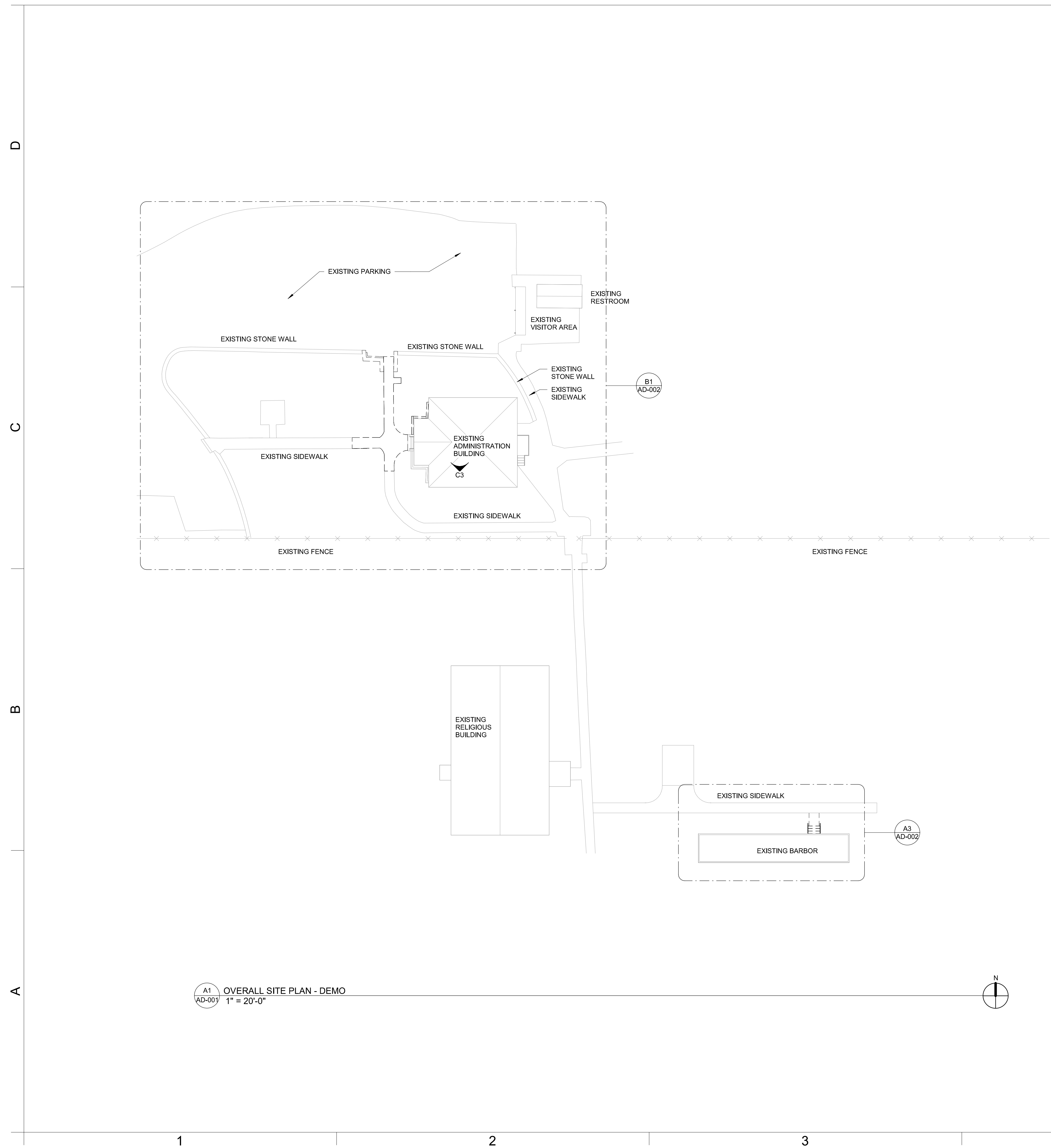


NO.	DATE	ISSUED FOR	DESCRIPTION OF REVISIONS
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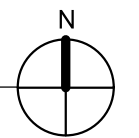
  

DESIGNER OF RECORD SEAL	
<b>RAYMOND GEORGIA, INC.</b> RAYMOND ENGINEERING 916 WEST MILLBERG ROAD, SUITE 201 RALEIGH, NC, 27609 919.872.7856 COM# C-2522	
PROJECT INFORMATION	PROJECT NUMBER: RAL1034.016 CLIENT'S PROJECT NUMBER: CLIENT'S REPRESENTATIVE: DATE: DRAWN: H. DABU CHECKED: J. SMITH APPROVED: D. WILLERS DESIGNER: D. WILLERS NOTICE: THIS DOCUMENT INCORPORATES PROJECT PLAN 9017R SOUTH OF RAMP AND JURISDICTION IS LIMITED TO THE PROJECT OF RAMP AND RAMP POST MOUNTS. IT SHALL NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF RAYMOND GEORGIA, INC.
PROJECT DESIGNED FOR:	NORTH CAROLINA DEPARTMENT OF ADULT CORRECTION 2020 YONKERS RD, 4216 MSC RALEIGH, NC 27699-4216 TEL (919) 716-3400 FAX (919) 716-3978
PROJECT TITLE:	DAVIDSON CC ACCESSIBILITY IMPROVEMENTS DAVIDSON CORRECTIONAL CENTER LEXINGTON, NC SHEET TITLE: RAMP SECTIONS
DRAWING #	S-443
SHEET #	OF

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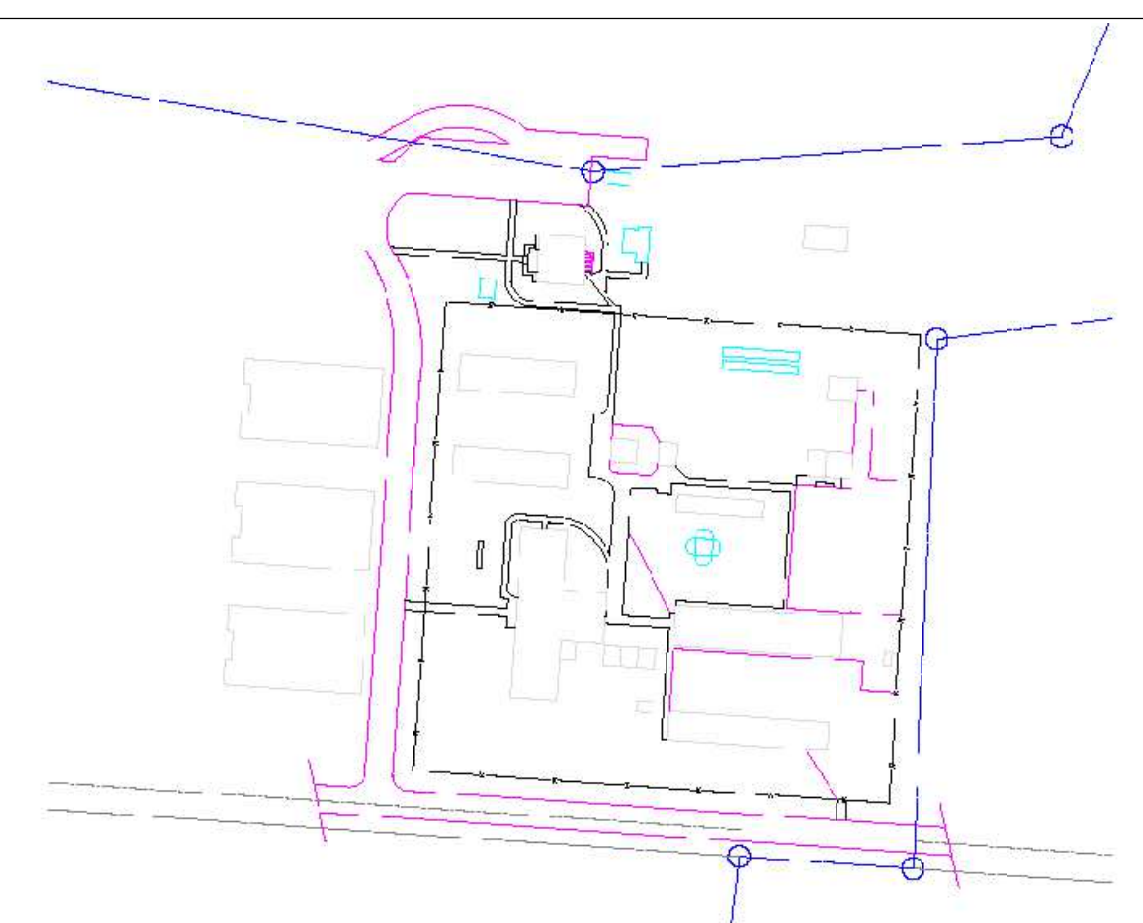


A1  
AD-001 OVERALL SITE PLAN - DEMO  
1" = 20'-0"

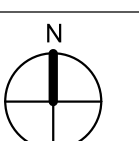


**GENERAL NOTES**

1. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON ARCHITECTURAL PLANS WITH ELECTRICAL, MECHANICAL & STRUCTURAL.

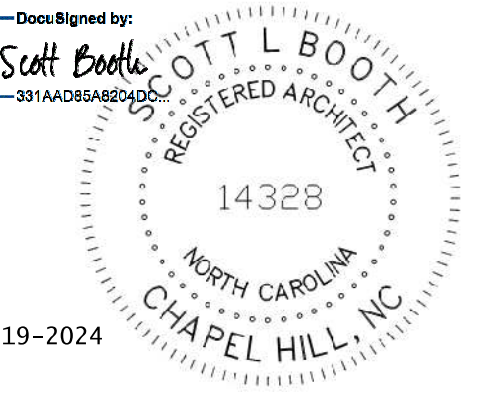


**KEY PLAN**



**NORTH CAROLINA DEPARTMENT OF ADULT CORRECTION**

2020 YONKERS ROAD  
4216 MSC  
RALEIGH, NC 27699-4216  
TEL (919) 716-3400  
FAX (919) 716-3978



Feb-19-2024

09/20/23 CD Submittal

NO.	DATE	REVISION

DRAWN BY: APD  
DESIGNED BY: SB  
CHECKED BY: SB  
CADD DWG NO: AD-001  
JOB ORDER NO: 4369  
PLOT DATE: 09/20/23

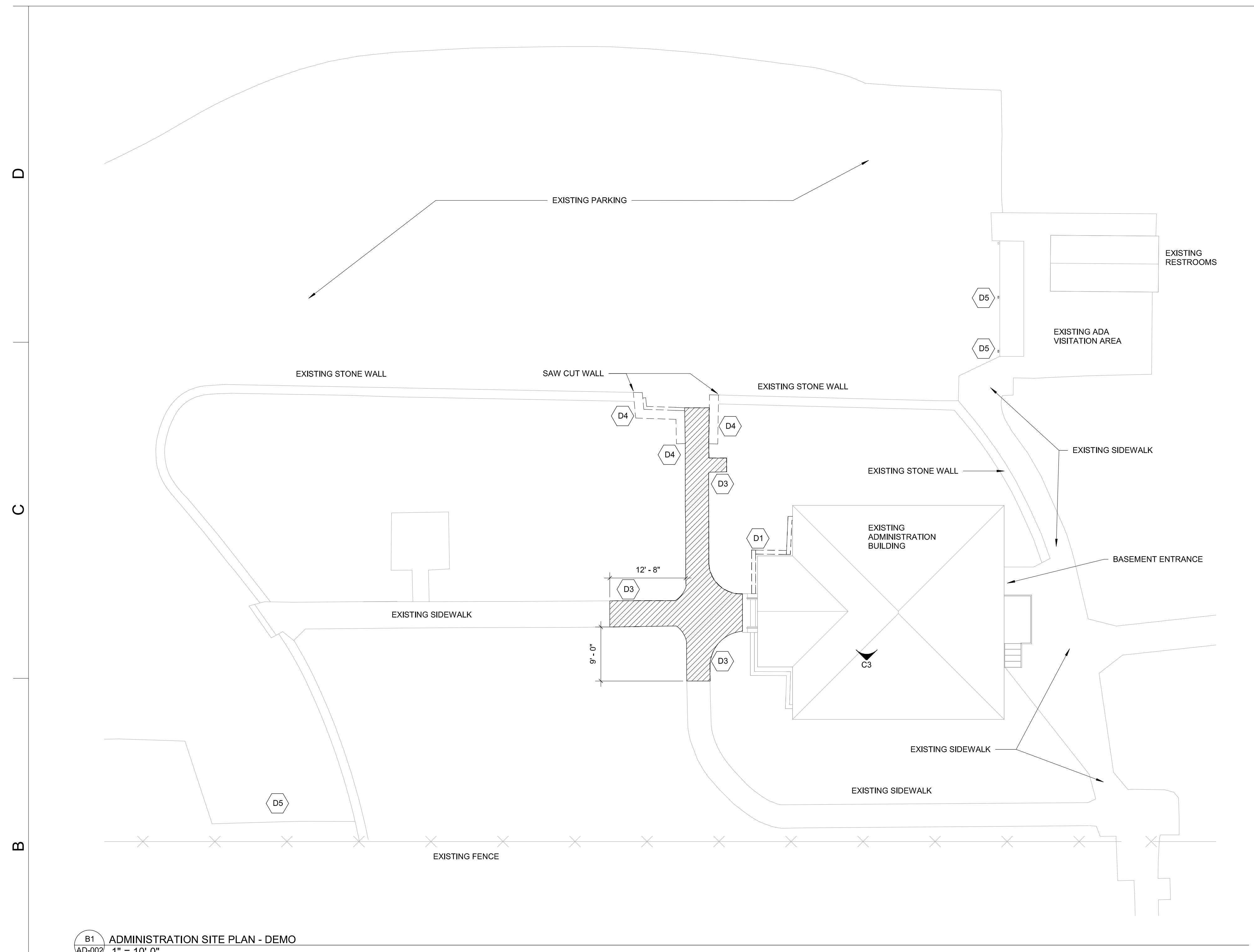
**DAVIDSON CORRECTIONAL CENTER**  
LEXINGTON, NC

**DAVIDSON CC ACCESSIBILITY IMPROVEMENTS**

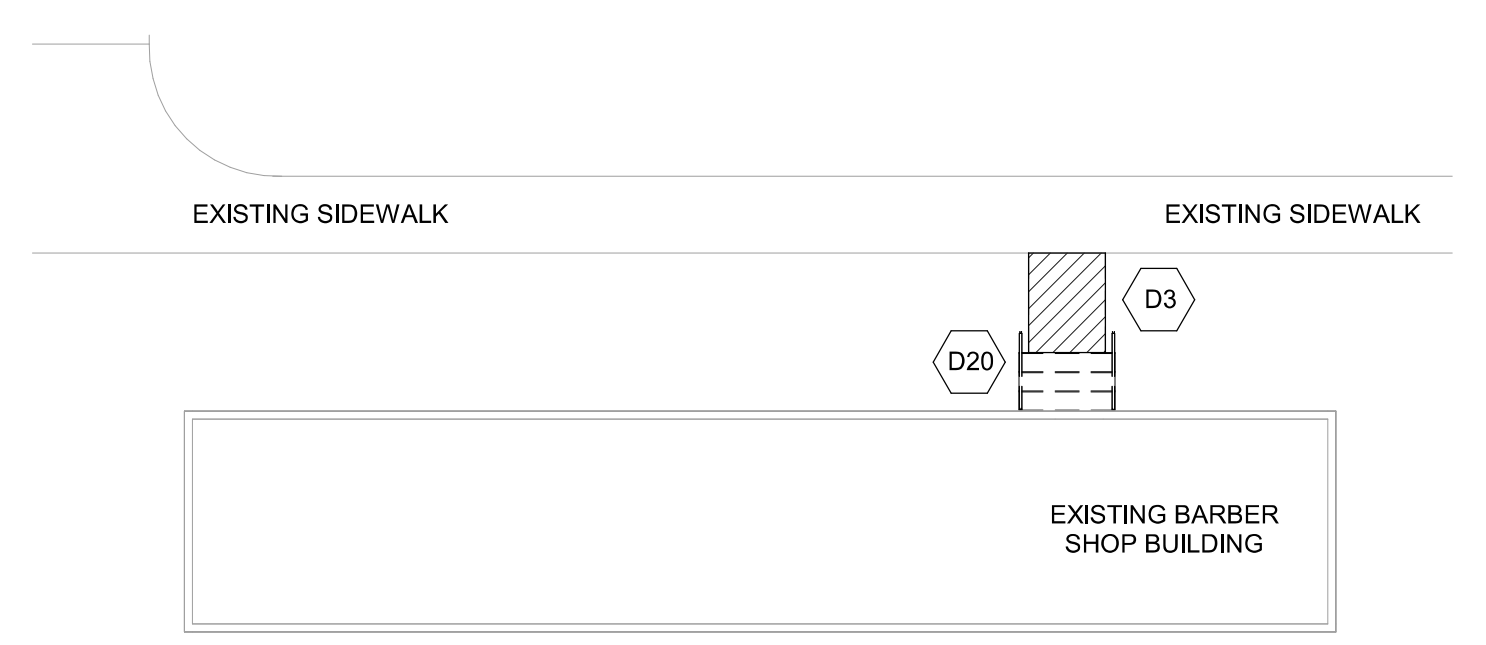
SCO ID # 23-26652-01A

ARCHITECTURAL SITE PLAN - DEMO

**AD-001**



B1 ADMINISTRATION SITE PLAN - DEMO  
AD-002 1" = 10'-0"



A3 BARBER SHOP BLD SITE PLAN - DEMO  
AD-002 1" = 10'-0"

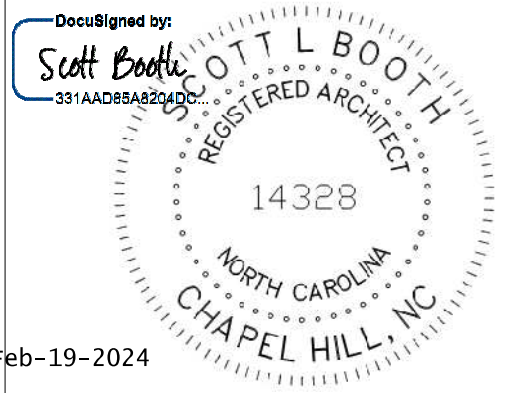
**GENERAL NOTES**

- CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON ARCHITECTURAL PLANS WITH ELECTRICAL, MECHANICAL & STRUCTURAL.

SHEET KEYNOTES - AD002	
number	Description
D1	DEMO EXISTING PLANTER WALL IN IT'S ENTIRETY INCLUDING FOUNDATION.
D3	DEMO EXISTING SIDEWALK AS SHOWN
D4	DEMO EXISTING STONE KNEE WALLS IN THEIR ENTIRETY INCLUDING FOOTINGS AND OR FOUNDATION AND CONCRETE TOP.
D5	DEMO EXISTING ADA SIGNAGE & PARKING ASSIGNMENT SIGNAGE INCLUDING POST & ANY CONCRETE POST IS SET IN
D20	DEMO EXISTING BRICK STAIR IN ITS ENTIRETY INCLUDING HANDRAILS AND FOUNDATION



**NORTH CAROLINA DEPARTMENT OF ADULT CORRECTION**  
 2020 YONKERS ROAD  
 4216 MSC  
 RALEIGH, NC 27699-4216  
 TEL (919) 716-3400  
 FAX (919) 716-3978



09/20/23 CD Submittal

NO.	DATE	REVISION

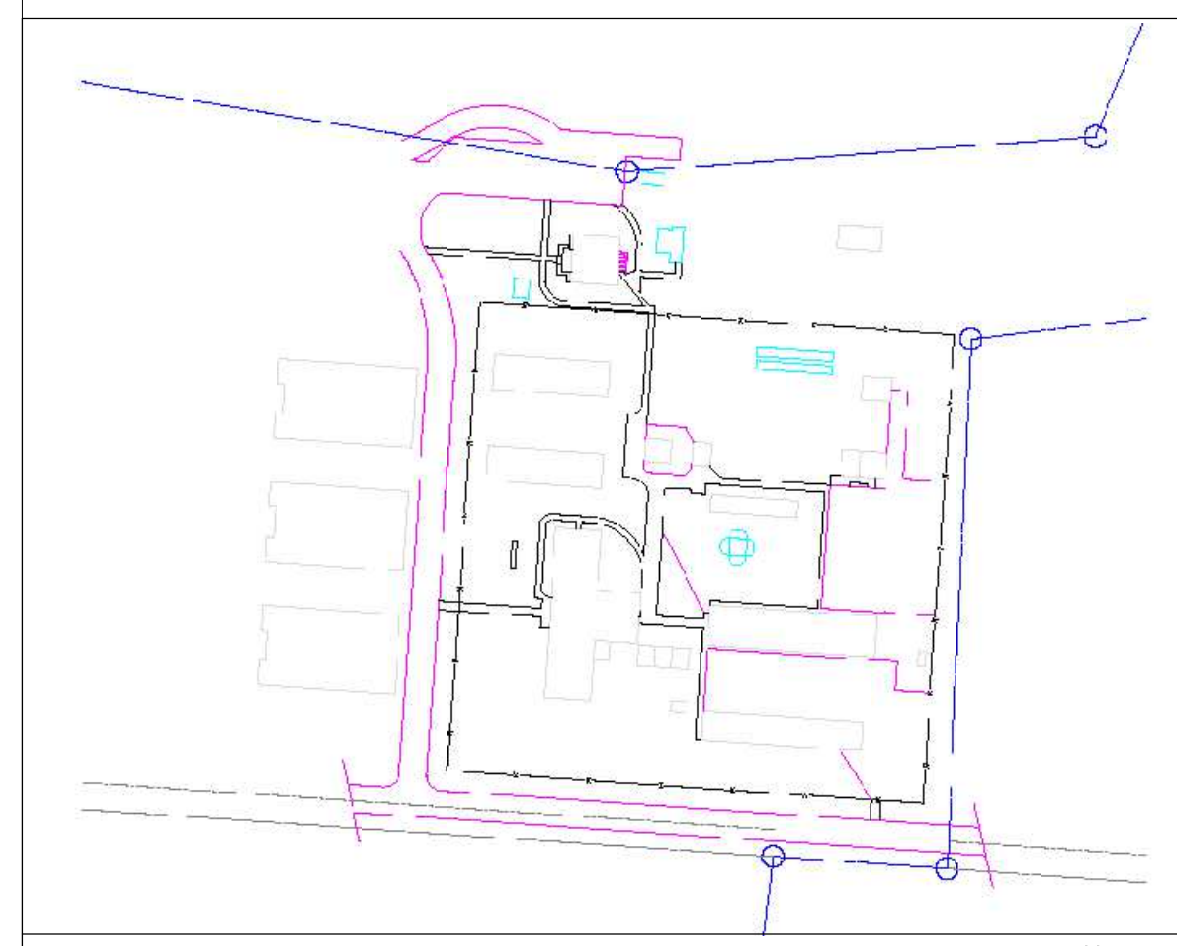
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 DESIGNED BY: SB  
 CHECKED BY: SB  
 CADD DWG NO: AD-002  
 JOB ORDER NO: 4369  
 PLOT DATE: 09/20/23

**DAVIDSON CORRECTIONAL CENTER**  
 LEXINGTON, NC

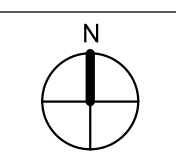
**DAVIDSON CC ACCESSIBILITY IMPROVEMENTS**

SCO ID # 23-26652-01A

ENLARGED ARCHITECTURAL SITE PLAN - DEMO

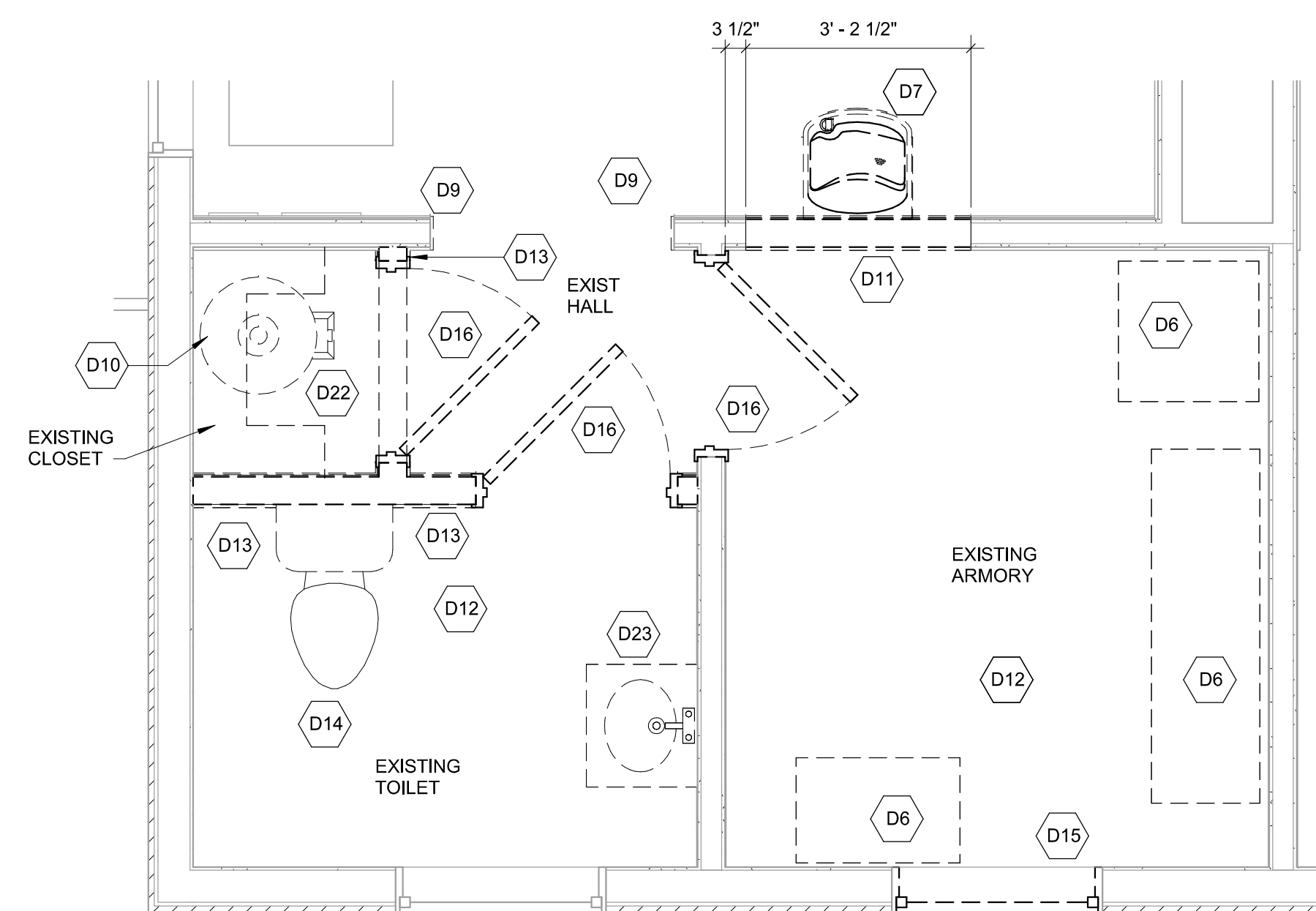


**KEY PLAN**

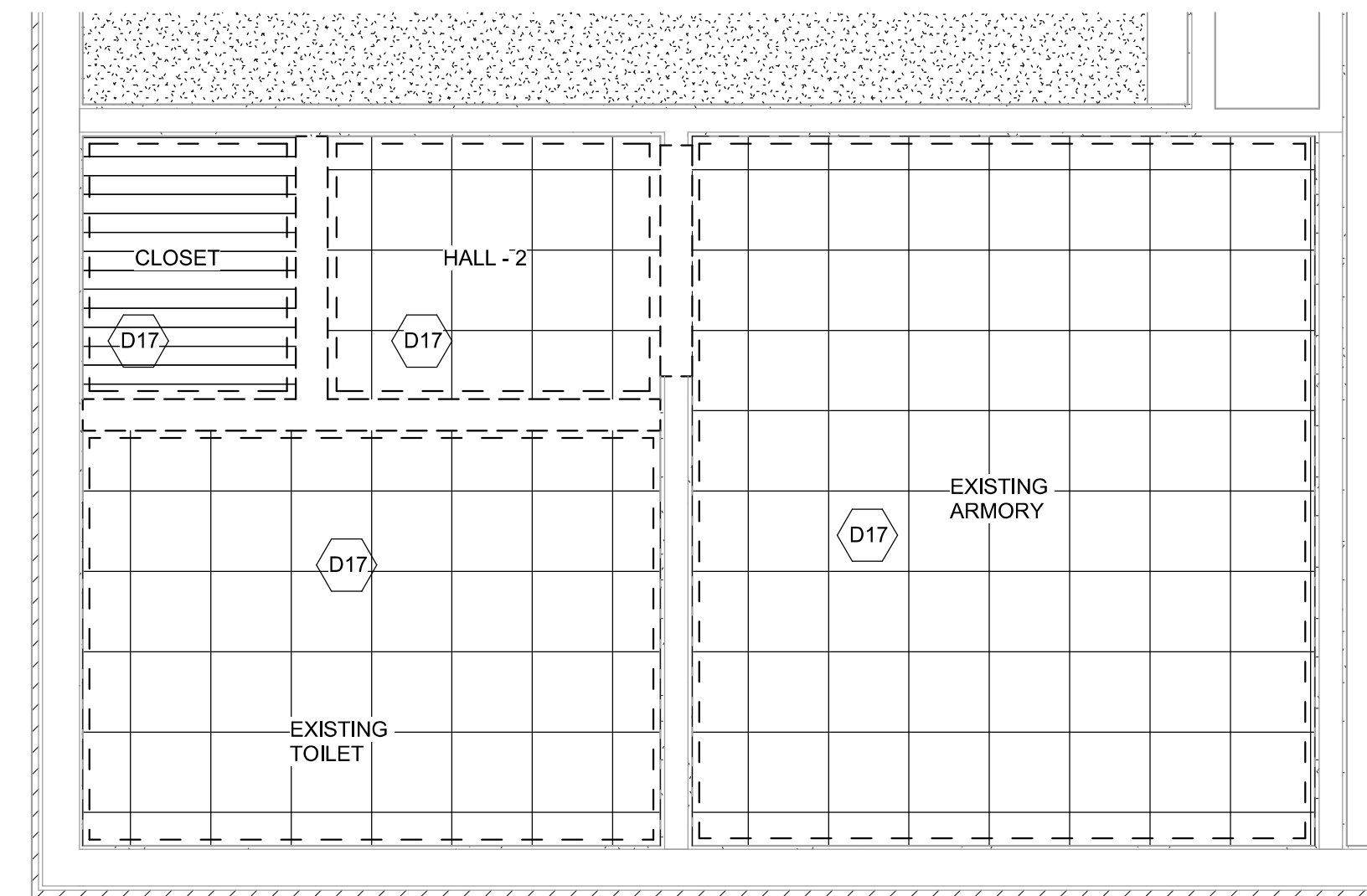


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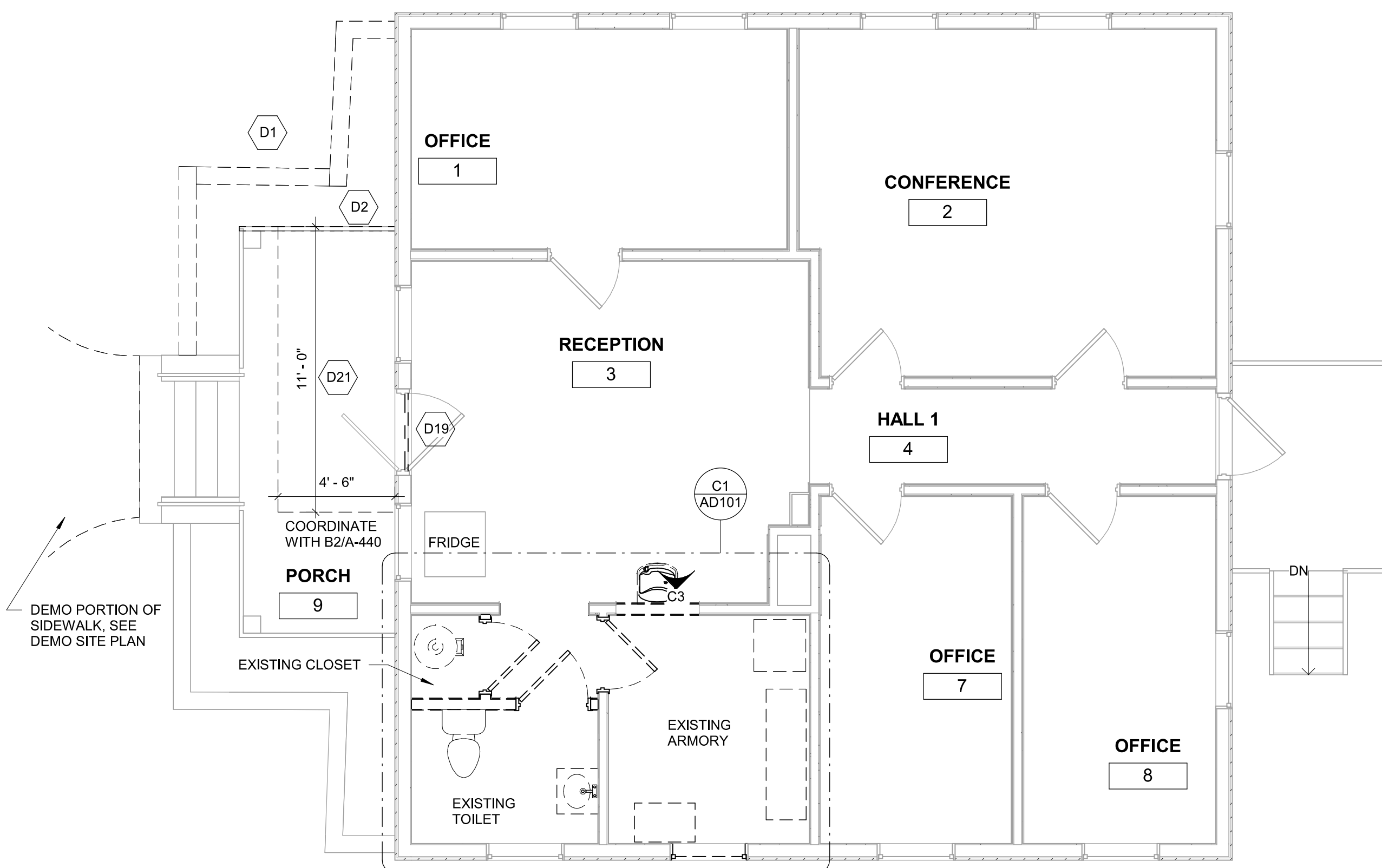
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C1  
AD101  
FIRST FLOOR RESTROOM PLAN - DEMOLITION  
1/2" = 1'-0"



C3  
AD101  
FIRST FLOOR ADMIN BLDG REFLECTED CEILING PLAN - DEMO  
1/2" = 1'-0"



A1  
AD101  
FIRST FLOOR DEMOLITION PLAN  
1/4" = 1'-0"

**CEILING PLAN LEGEND**

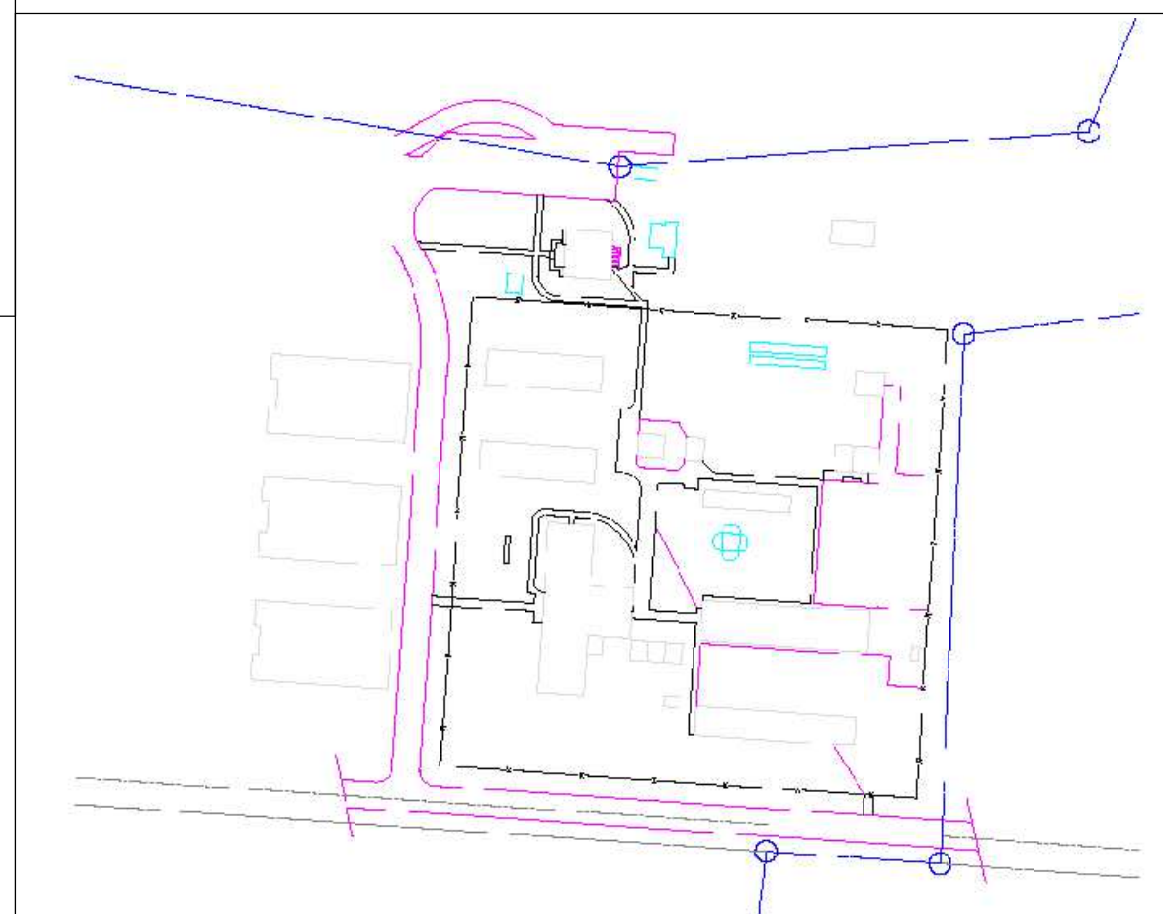
	2X4 RECESSED FIXTURE
	2X2 RECESSED FIXTURE
	8' PENDANT FIXTURE
	4' PENDANT FIXTURE
	8' RECESSED DOWNLIGHT
	18X18 RECESSED DOWNLIGHT
	6' RECESSED DOWNLIGHT
	2X2 SUPPLY DIFFUSER
	2X4 SUPPLY DIFFUSER
	2X2 RETURN DIFFUSER
	2X4 RETURN DIFFUSER
	8' LINEAR DIFFUSER
	SMOKE DETECTOR
	HEAT DETECTOR
	SPEAKER
	EXIT LIGHT
	SPRINKLER - RECESSED
	SPRINKLER - EXPOSED
	10'-0" CEILING HEIGHT

**GENERAL NOTES**

1. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON ARCHITECTURAL PLANS WITH ELECTRICAL, MECHANICAL & STRUCTURAL.
2. SEE ELECTRICAL FOR INFORMATION CONCERNING LIGHT FIXTURES.

**SHEET KEYNOTES - AD101**

Number	Description
D1	DEMO EXISTING PLANTER WALL IN IT'S ENTIRETY INCLUDING FOUNDATION.
D2	DEMO EXISTING PORTION OF PORCH RAIL AS SHOWN, INCLUDING ALL ASSOCIATED HARDWARE, AND BLOCKING.
D6	REMOVE EXISTING GUN CABINET, CONTRABAND CABINET, KOBALT CABINET, WALL MOUNTED STORAGE BOXES AND SHELVING. STORE IN LOCATION AS DIRECTED BY OWNER TILL REINSTALLATION AS PER THE CONSTRUCTION DOCUMENTS.
D7	DEMO EXISTING WALL MOUNTED WATER FOUNTAIN. CAP EXISTING DRAIN AND WATER SUPPLY BELOW FLOOR LEVEL.
D9	DEMO EXISTING CASED OPENING FRAME INCLUDING ALL TRIM.
D10	DEMO EXISTING WATER HEATER IN IT'S ENTIRETY. CAP WATER SUPPLY LINES BELOW FLOOR. DEMO ELECTRICAL SUPPLY BACK TO ELECTRICAL PANEL. SEE ELECTRICAL SHEETS. DEMO WATER DISTRIBUTION LINES AND OR RE-ROUTE PER PLUMBING SHEETS.
D11	DEMO PORTION OF EXISTING WALL AS SHOWN FOR NEW 3'-0" X 6'-8" DOOR, INCLUDING WOOD BASE, TRIM AND BLOCKING, CAP ANY PLUMBING BELOW FLOOR. REMOVE ANY ELECTRICAL BACK TO ELECTRICAL PANEL.
D12	DEMO EXISTING ENGINEERED FLOORING DOWN TO ORIGINAL FLOOR. CONTRACTOR SHALL INSPECT FLOOR AND REPORT IN WRITING ANY DAMAGE.
D13	DEMO EXISTING WALL FROM FLOOR TO CEILING INCLUDING WOOD BASE, TRIM AND BLOCKING. CAP ANY PLUMBING BELOWFLOOR. REMOVE ANY ELECTRICAL BACK TO ELECTRICAL PANEL.
D14	DEMO EXISTING TOILET INCLUDING ALL HARDWARE, BLOCKING AND TRIM. CAP EXISTING PLUMBING SUPPLY LINES BELOW FLOOR OR IN WALL. CAP EXISTING SEWER DRAIN BELOW FLOOR.
D15	DEMO EXISTING WD WINDOW, INCLUDING ALL TRIM, AND BLOCKING.
D16	DEMO EXISTING DOOR AND FRAME INCLUDING ALL ASSOCIATED HARDWARE, BLOCKING, AND TRIM.
D17	DEMO EXISTING CEILING DOWN TO CEILING FRAMING INCLUDING CROWN MOLDING & LIGHT FIXTURES.
D19	REMOVE EXISTING METAL DOOR THRESHOLD, DOOR TO REMAIN
D21	REMOVE EXISTING PAINT. CLEAN AND PREP EXISTING CONCRETE TO RECIEVE TOPPING SLAB THIS AREA.
D22	DEMO EXISTING RAISED FLOOR IN CLOSET INCLUDING SILL OF DOOR DOWN TO EXISTING FLOOR / SUB FLOOR. DEMO EXISTING WALL MOUNTED SHELVING INCLUDING ALL BLOCKING AND TRIM.
D23	DEMO EXISTING SINK, VANITY & MIRROR INCLUDING ALL BLOCKING AND TRIM. CAP WATER SUPPLY LINES BELOW FLOOR CAP SINK DRAIN BELOW FLOOR OR REROUTE AS PER PLUMBING DRAWINGS.

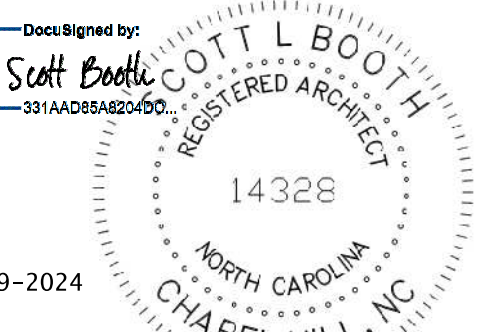


**KEY PLAN**



**NORTH CAROLINA DEPARTMENT OF ADULT CORRECTION**

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09/20/23 CD Submittal

NO. DATE REVISION

DRAWN BY: APD  
DESIGNED BY: SB  
CHECKED BY: SB  
CADD DWG NO: AD101  
JOB ORDER NO: 4369  
PLOT DATE: 09/20/23

**DAVIDSON CORRECTIONAL CENTER**  
LEXINGTON, NC

**DAVIDSON CC ACCESSIBILITY IMPROVEMENTS**

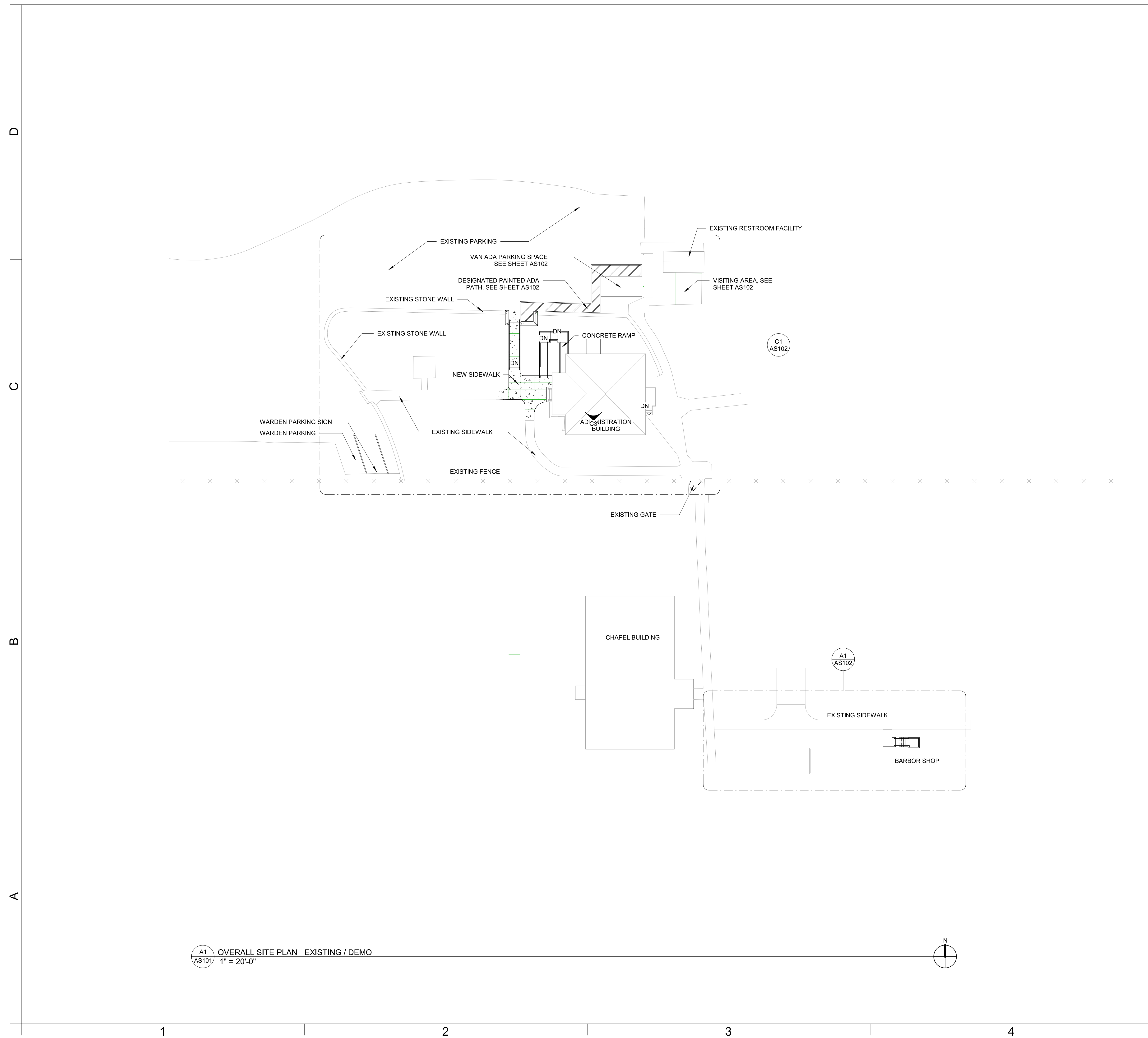
SCO ID # 23-26652-01A

**DEMOLITION FLOOR PLAN ADMINISTRATION BLDG**

**AD101**



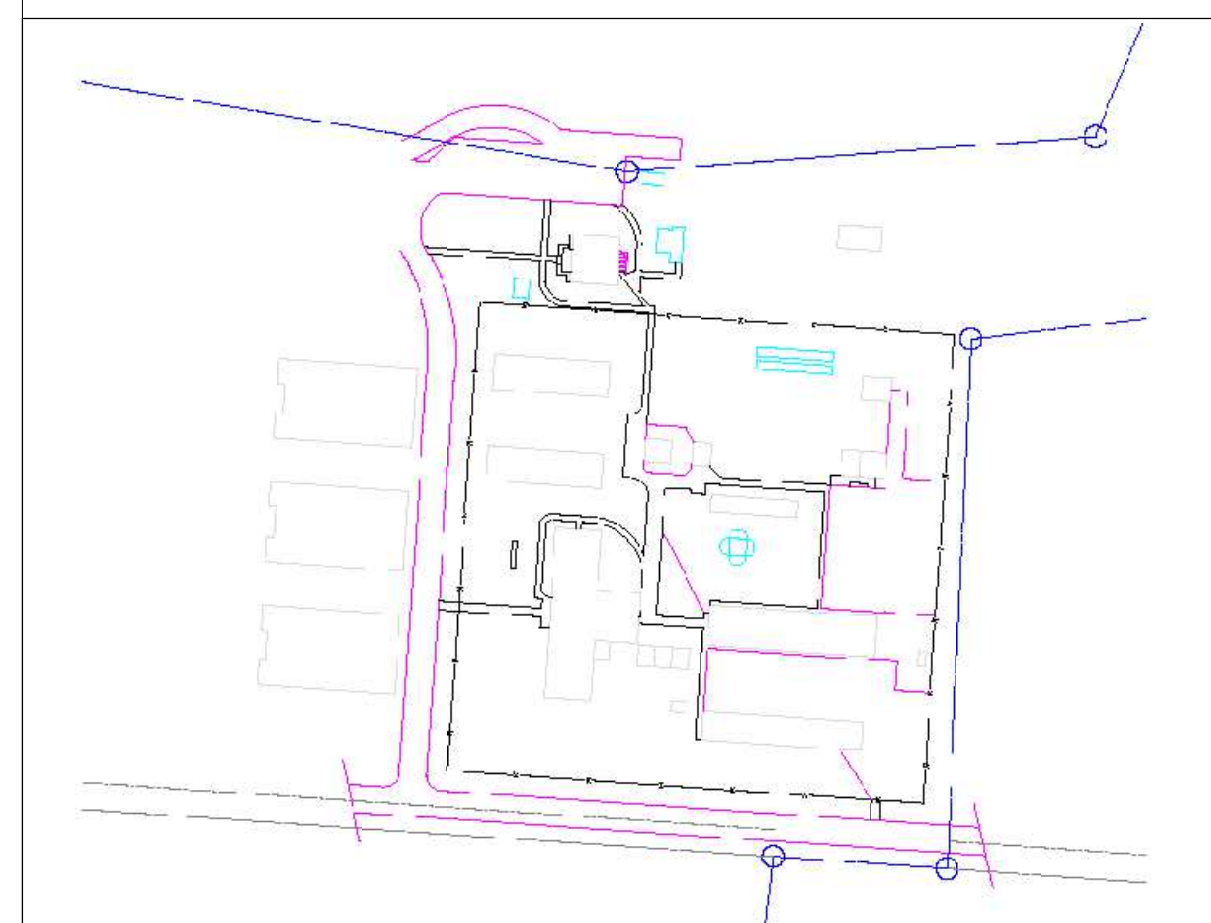
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A1 AS101 OVERALL SITE PLAN - EXISTING / DEMO  
1" = 20'-0"

**GENERAL NOTES**

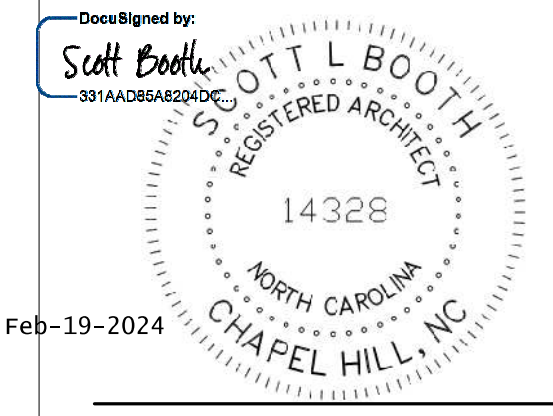
- CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON ARCHITECTURAL PLANS WITH ELECTRICAL, MECHANICAL & STRUCTURAL.



KEY PLAN



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SCO ID # 23-26652-01A

ARCHITECTURAL SITE PLAN

**AS101**





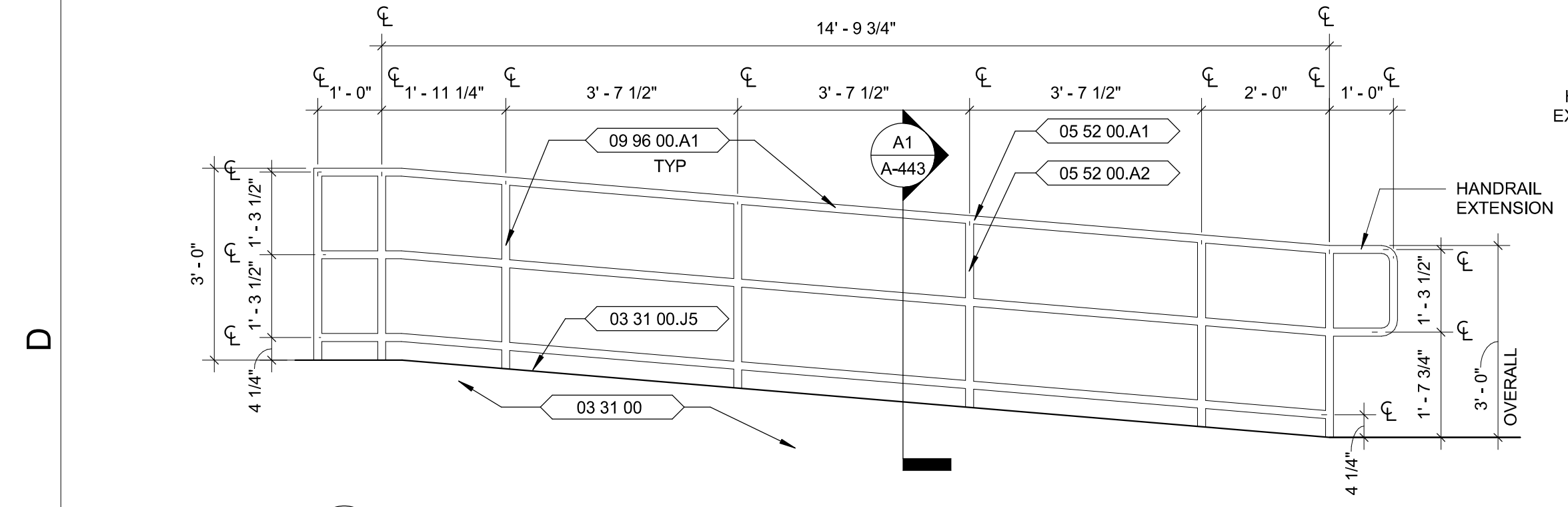




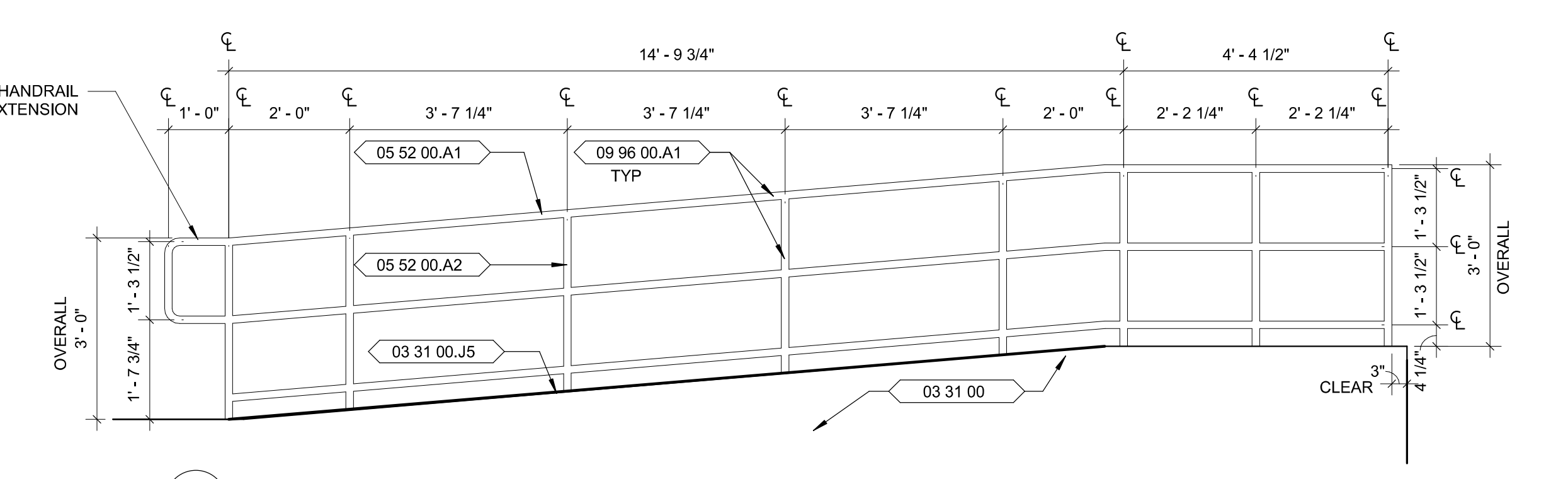




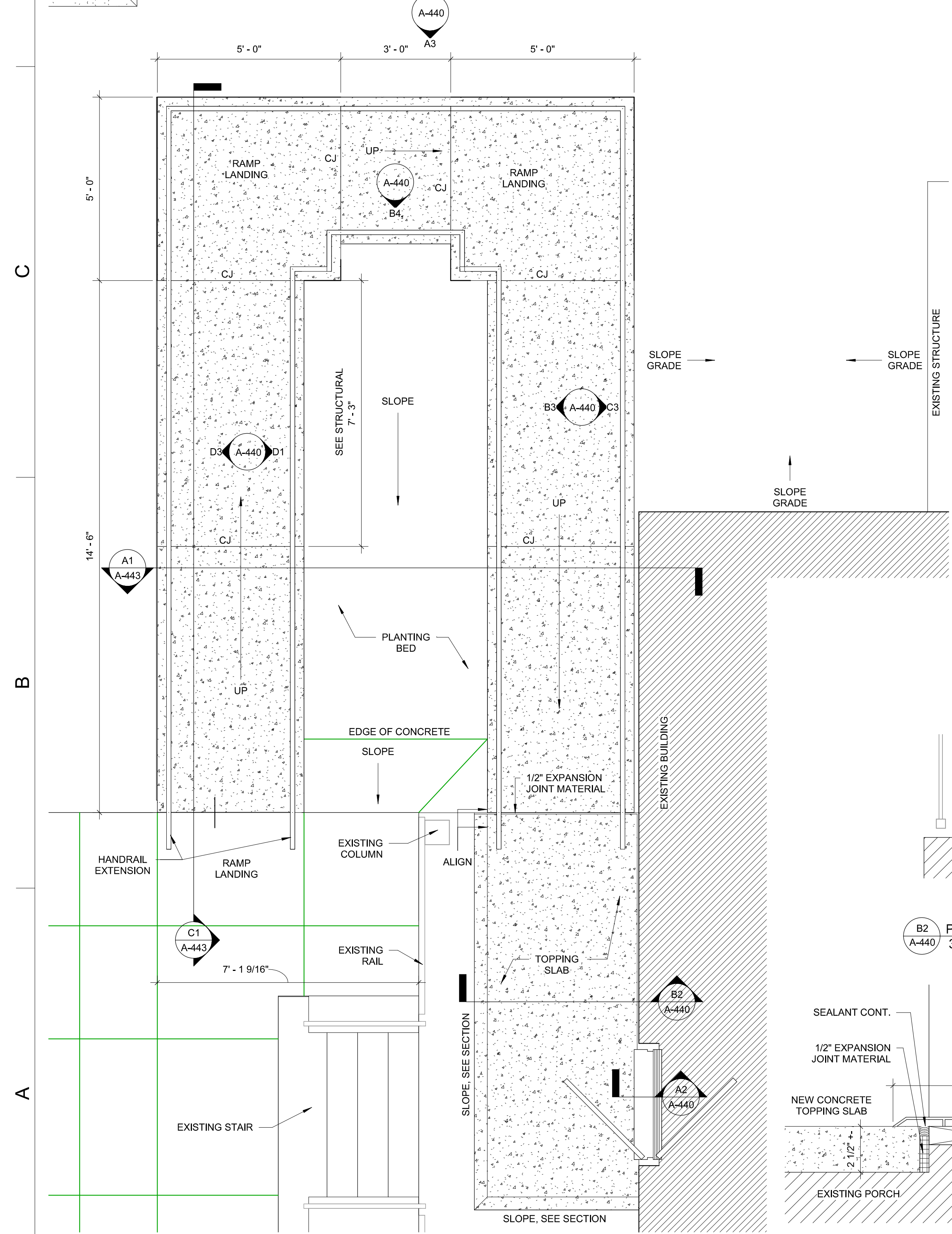




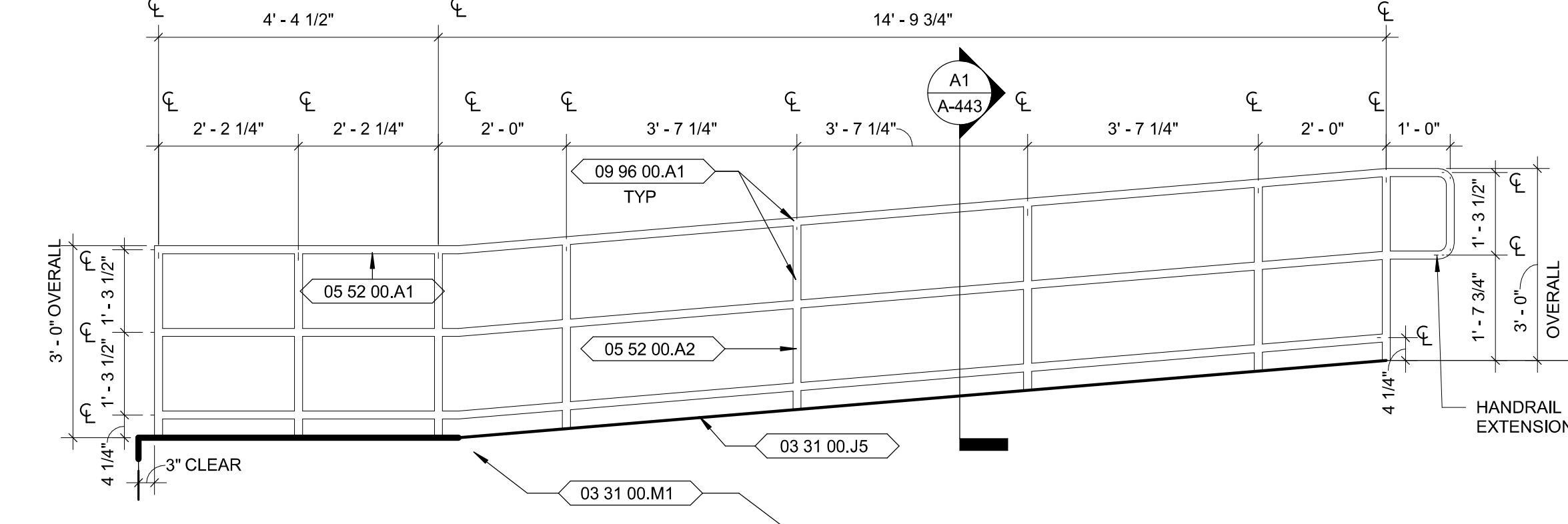
D1 RAMP 1 FRONT ELEVATION  
1/2" = 1'-0"



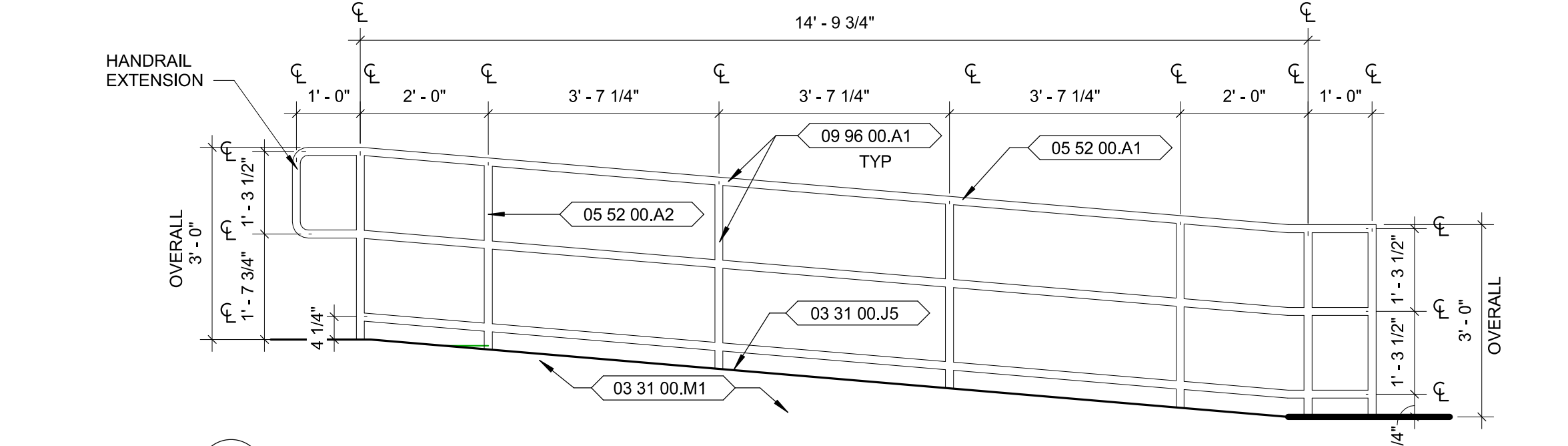
D3 RAMP 1 INTERIOR ELEVATION 3  
1/2" = 1'-0"



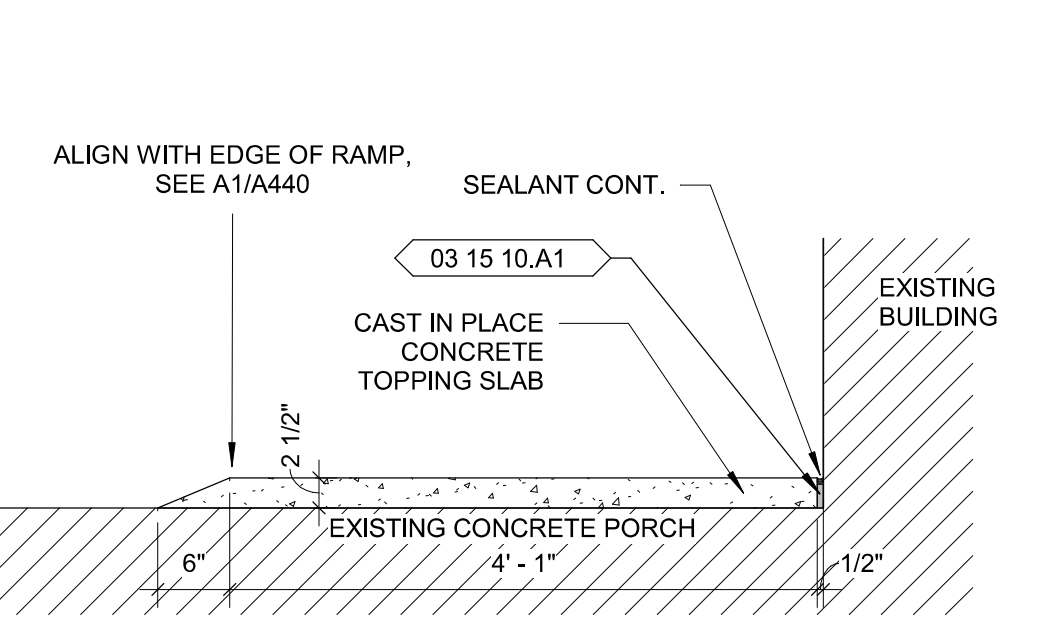
A1 RAMP 1 ENLARGED PLAN  
1/2" = 1'-0"



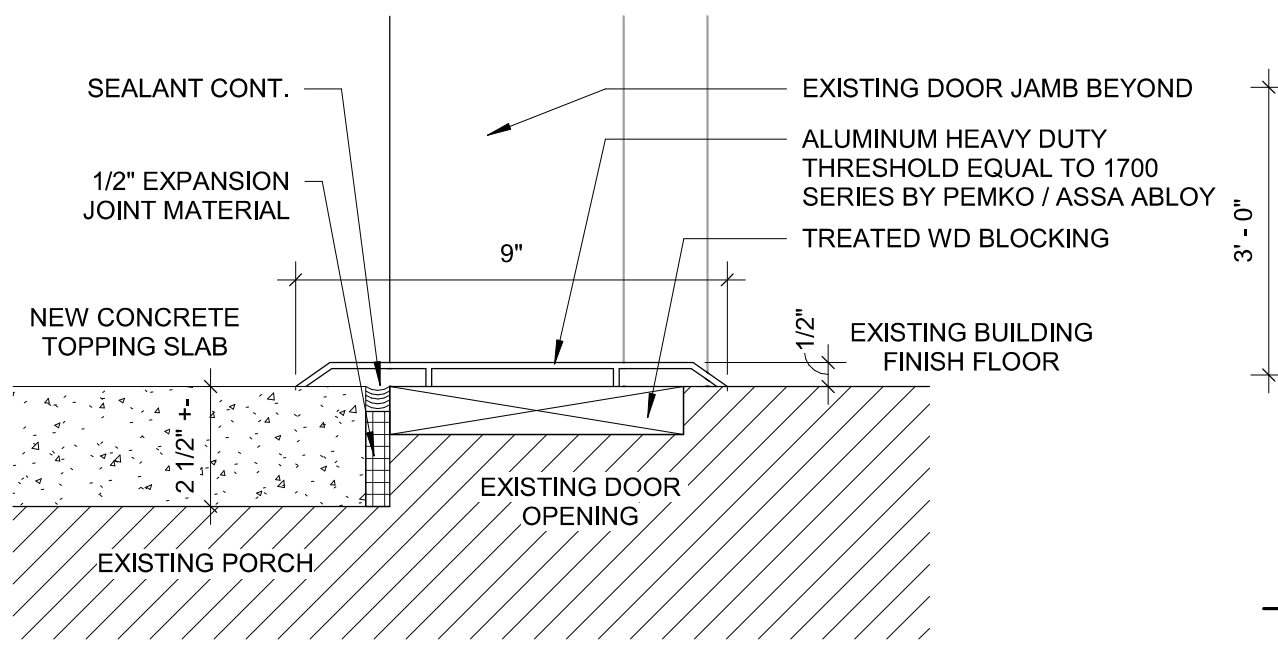
C3 RAMP 1 INTERIOR ELEVATION 4  
1/2" = 1'-0"



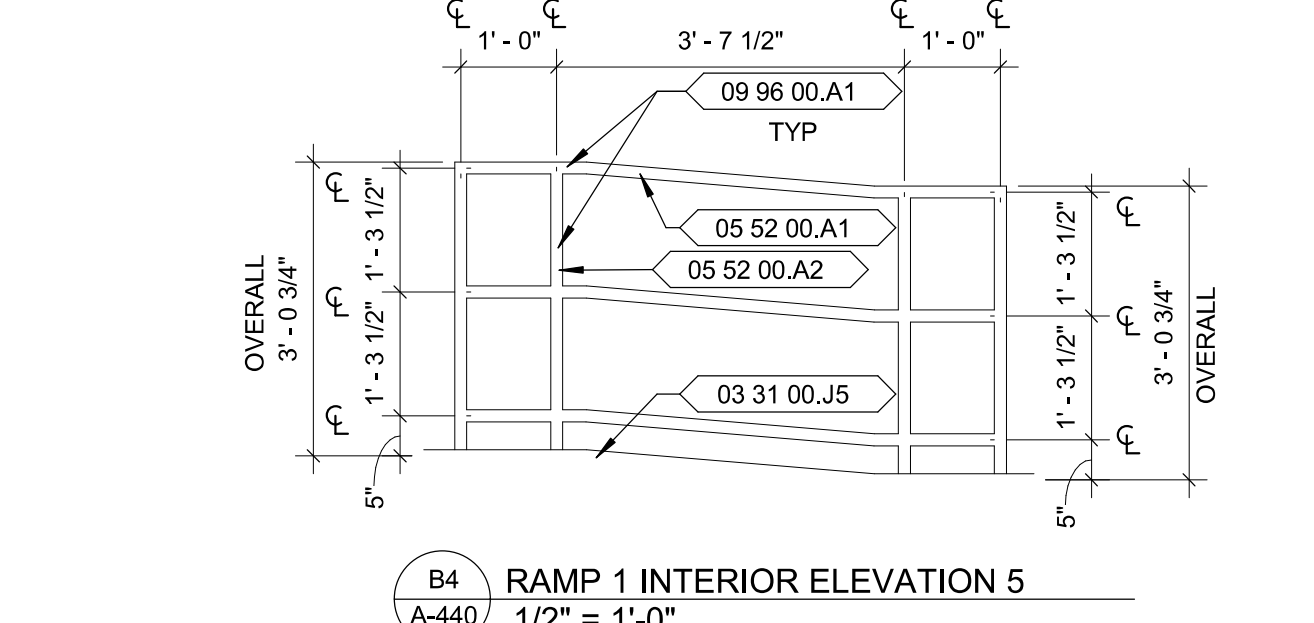
B3 RAMP INTERIOR ELEVATION 2  
1/2" = 1'-0"



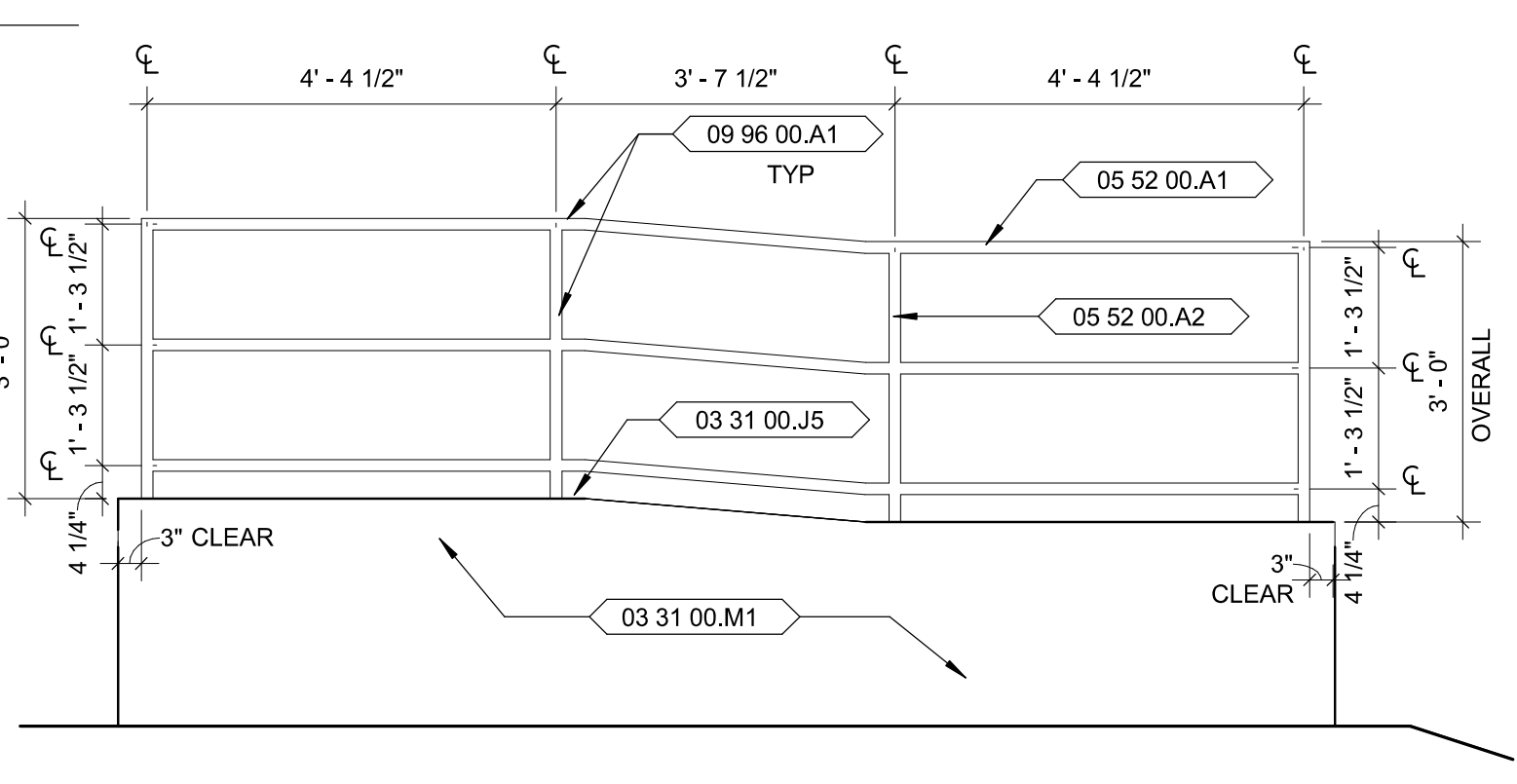
B2 PORCH TOPPING SECTION  
3/4" = 1'-0"



A2 DOOR THRESHOLD DETAIL  
3" = 1'-0"



B4 RAMP 1 INTERIOR ELEVATION 5  
1/2" = 1'-0"



A3 RAMP 1 END ELEVATION  
1/2" = 1'-0"

**GENERAL NOTES**

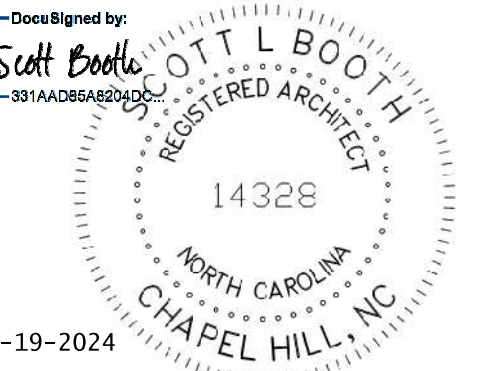
- CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON ARCHITECTURAL PLANS WITH ELECTRICAL, MECHANICAL & STRUCTURAL.

REFERENCE KEYNOTES	
Keynote Number	Description
03 15 10.A1	1/2" Expansion Joint Material
03 31 00	Structural Concrete
03 31 00.J5	4" Cast-in-Place Concrete Slab
03 31 00.M1	8" Cast-in-Place Concrete Wall
05 52 00.A1	Pipe and Tube rail
05 52 00.A2	Pipe and Tube Post
09 96 00.A1	High Performance Coatings



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Feb-19-2024

09/20/23 CD Submittal

NO. DATE REVISION

DRAWN BY: APD  
DESIGNED BY: SB  
CHECKED BY: SB  
CADD DWG NO: A-440  
JOB ORDER NO: 4369  
PLOT DATE: 09/20/23

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LEXINGTON, NC

**DAVIDSON CC ACCESSIBILITY IMPROVEMENTS**

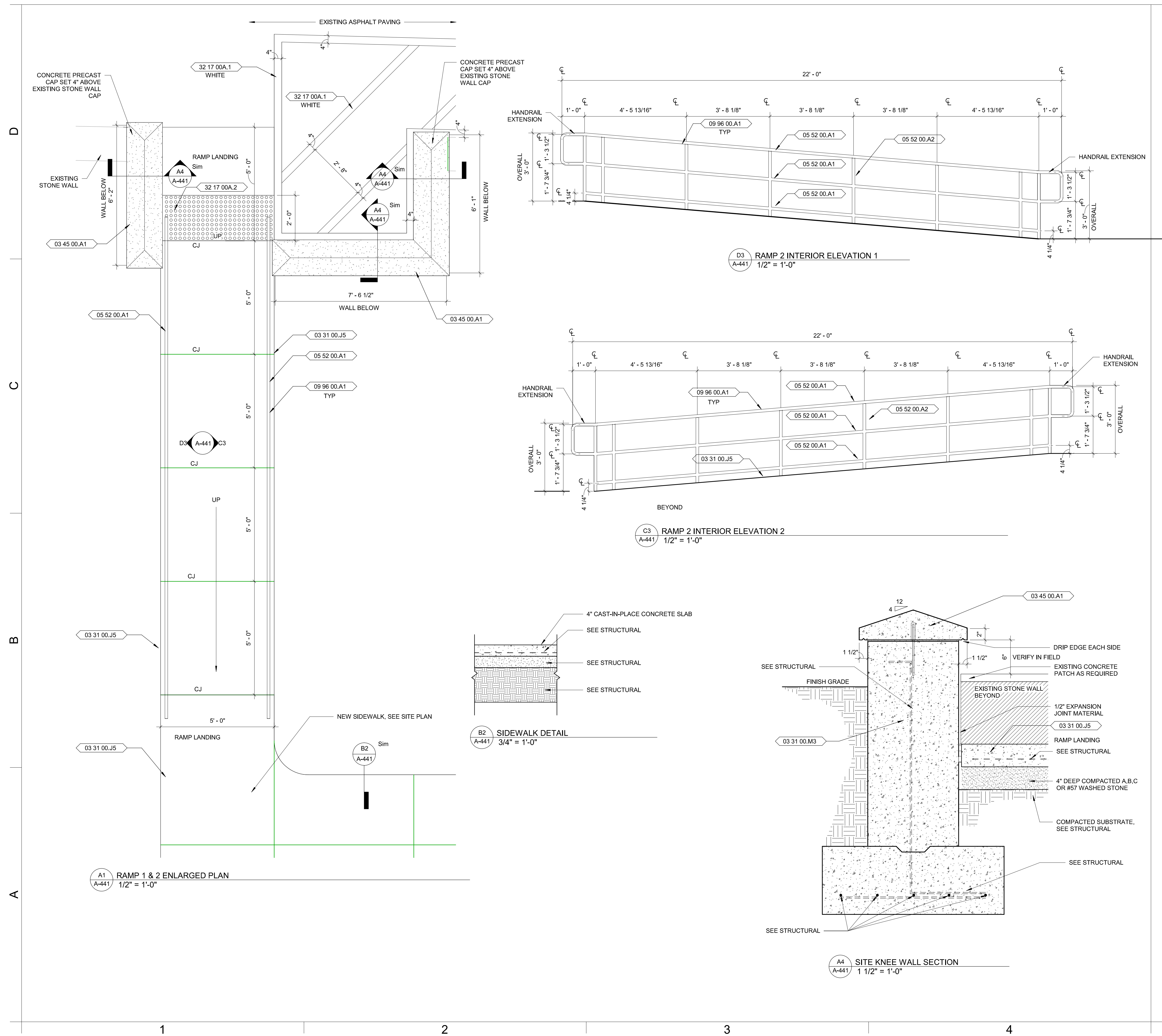
SCO ID # 23-26652-01A

**ENLARGED STAIR AND RAMP PLANS**

**A-440**

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**GENERAL NOTES**

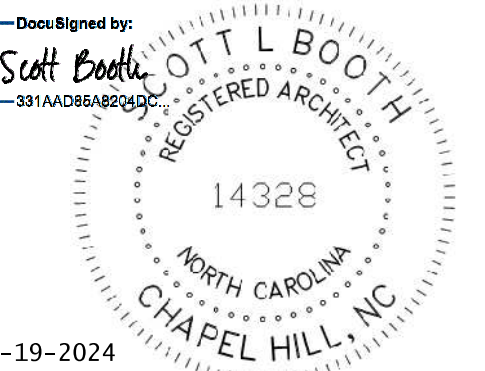
- CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON ARCHITECTURAL PLANS WITH ELECTRICAL, MECHANICAL & STRUCTURAL.

REFERENCE KEYNOTES	
Keynote Number	Description
03 31 00.J5	4" Cast-in-Place Concrete Slab
03 31 00.M3	16" Cast-in-Place Concrete Wall
03 45 00.A1	Precast Architectural wall cap
05 52 00.A1	Pipe and Tube rail
05 52 00.A2	Pipe and Tube Post
09 96 00.A1	High Performance Coatings
32 17 00.A1	Pavement Marking Paint
32 17 00.A2	Tactile Warning Surface



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DRAWN BY: APD  
DESIGNED BY: SB  
CHECKED BY: SB  
CADD DWG NO: A-441  
JOB ORDER NO: 4369  
PLOT DATE: 09/20/23

**DAVIDSON CORRECTIONAL CENTER**  
LEXINGTON, NC

**DAVIDSON CC ACCESSIBILITY IMPROVEMENTS**

SCO ID # 23-26652-01A

**ENLARGED RAMP PLANS & ELEVATIONS**

**A-441**

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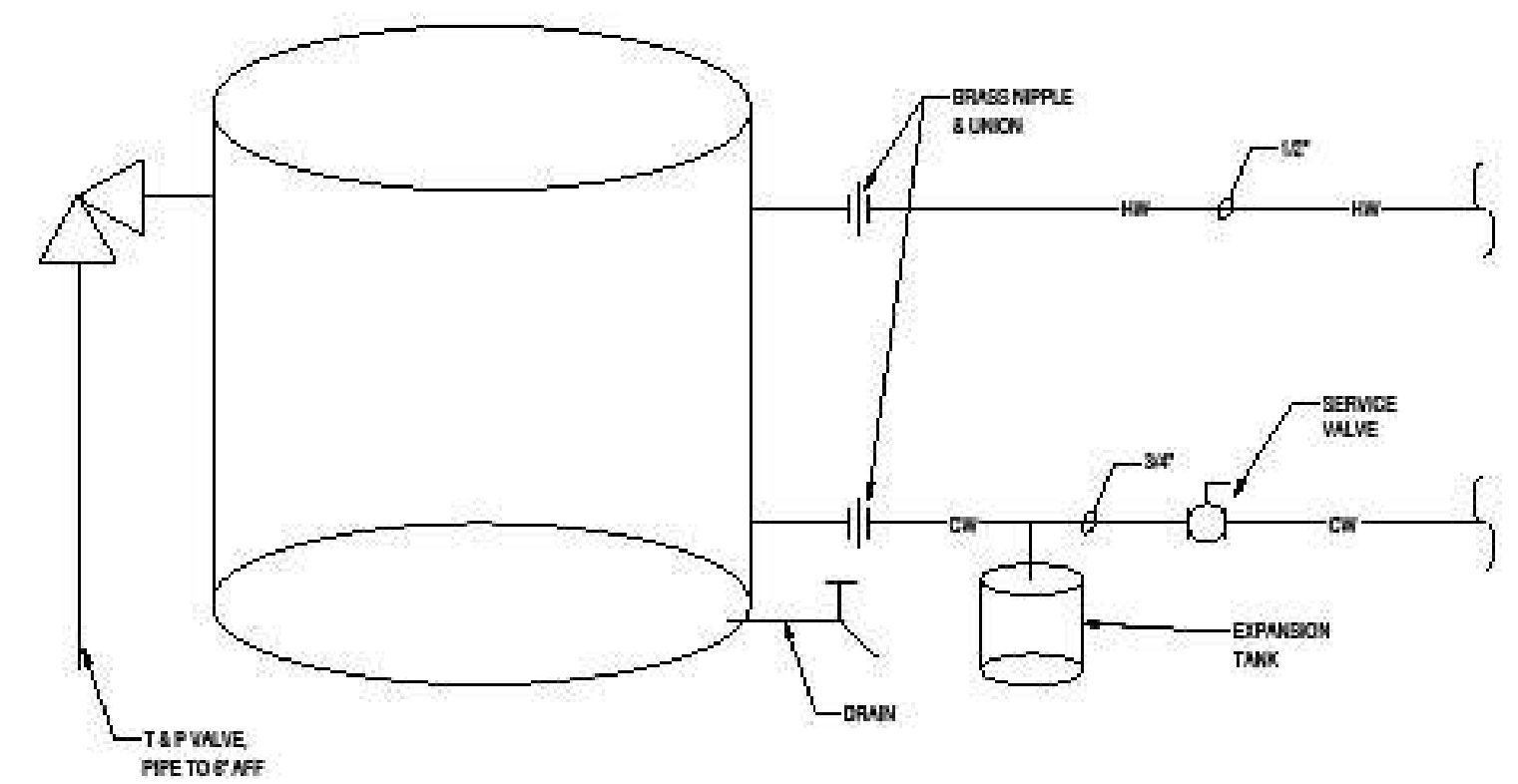












C1 HOT WATER HEATER DETAIL  
P-101 NONE

NOTES:  
1. WATER HEATER TO BE LOCATED IN BASEMENT.

**PLUMBING FIXTURE SCHEDULE**

MARK	FIXTURE DESCRIPTION	WASTE	CW	HW	VENT
P-1H	ADA WATER CLOSET	3"	1/2"		
P-2H	ADA WALL HUNG LAVATORY	1-1/4"	1/2"	1/2"	2"
P-3	BOTTLE FILLER	1-1/4"	1/2"		1-1/2"

**WATER HEATER SCHEDULE**

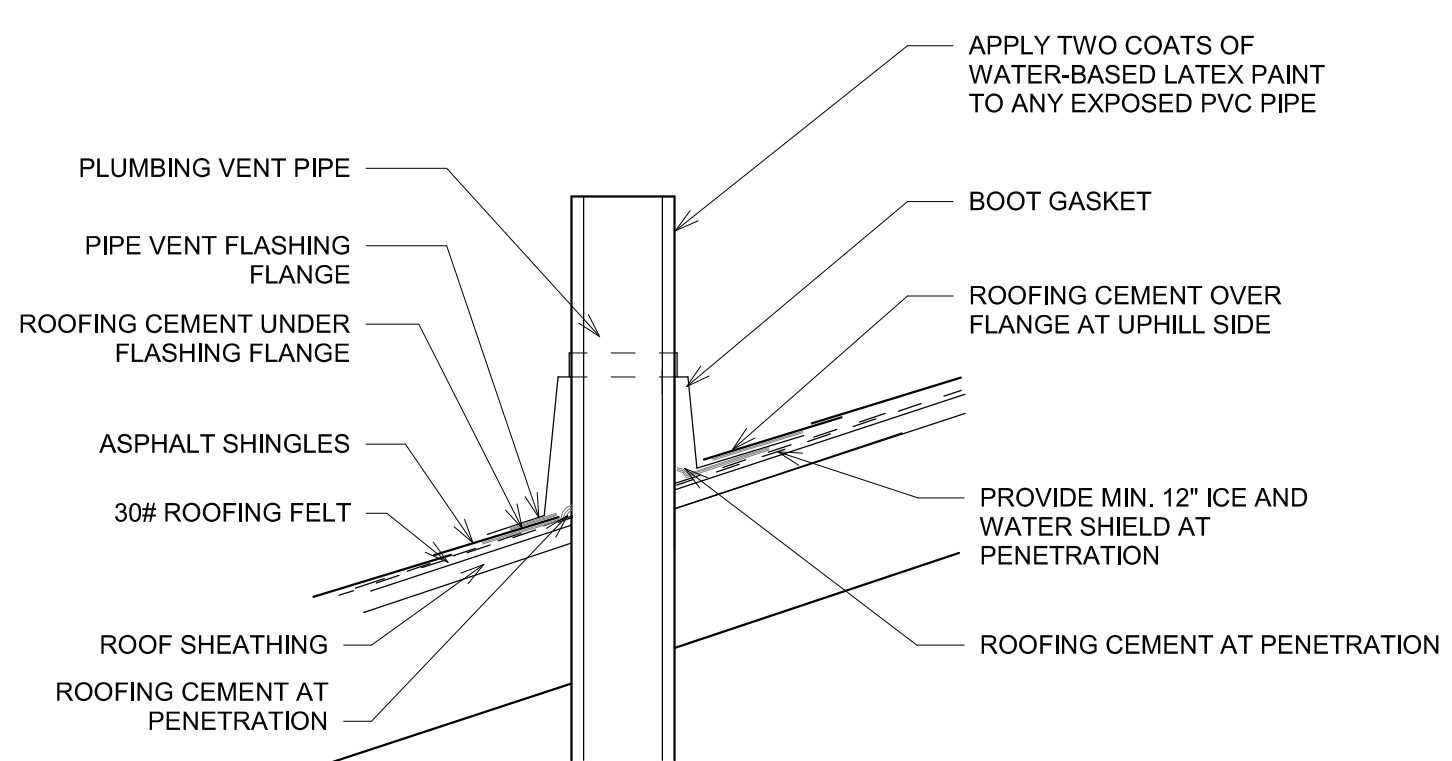
MARK	DESCRIPTION	TANK VOLUME	RECOVERY @ 90 °F RISE/HR	ELECTRICAL			REMARKS
				V	AMPS	HZ	
EW-1	COMPACT ELECTRIC WH	6 GAL.	8 GAL.	120	13.75	60	1.

REMARKS:  
1. PROVIDE WALL MOUNTED SUPPORT PLATFORM. SEE DETAIL 2/P-101.

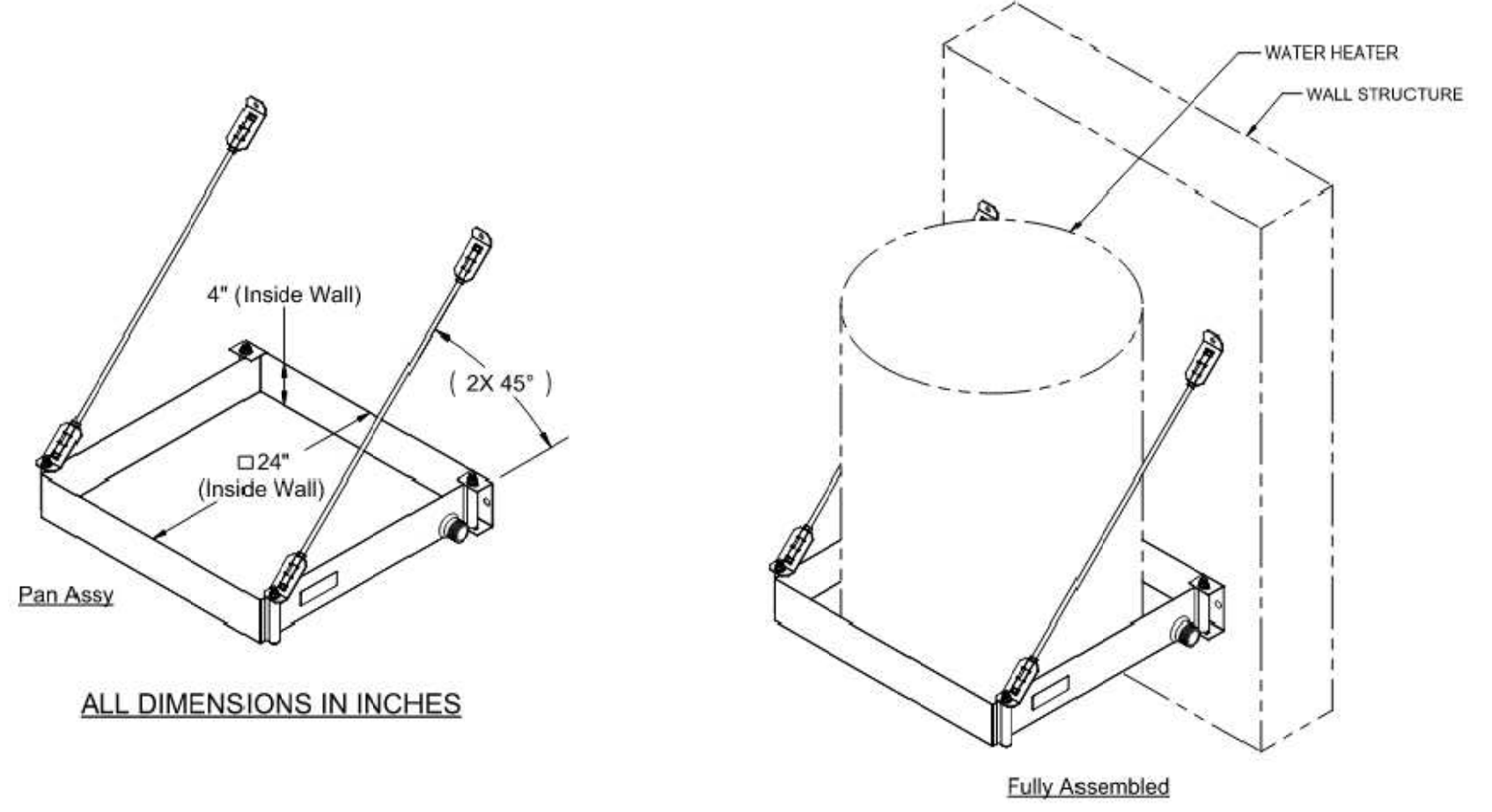
**THERMAL EXPANSION TANK SCHEDULE**

MARK	DESCRIPTION	TANK VOLUME	ACCEPTANCE VOLUME	CONNECTION	REMARKS
ET-1	POTABLE WATER EXPANSION TANK	2.1 GAL.	1.78 GAL.	3/4"	1

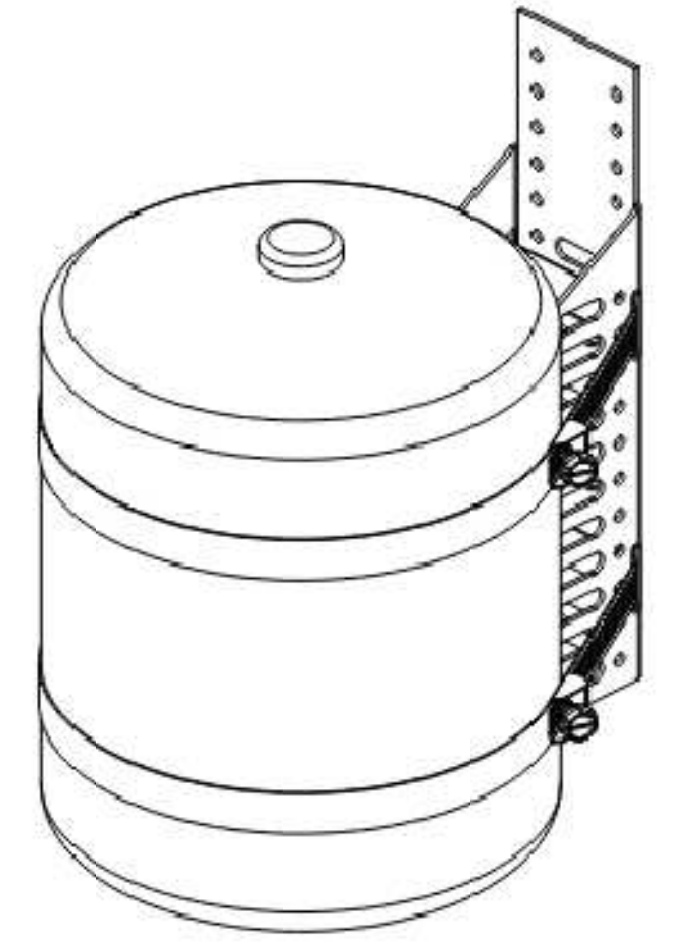
REMARKS:  
1. PROVIDE POLYURTHANE QS-U TANK SUPPORT. EQUALS BY SIOUX CHEF, STORM KING ENTERPRISE.



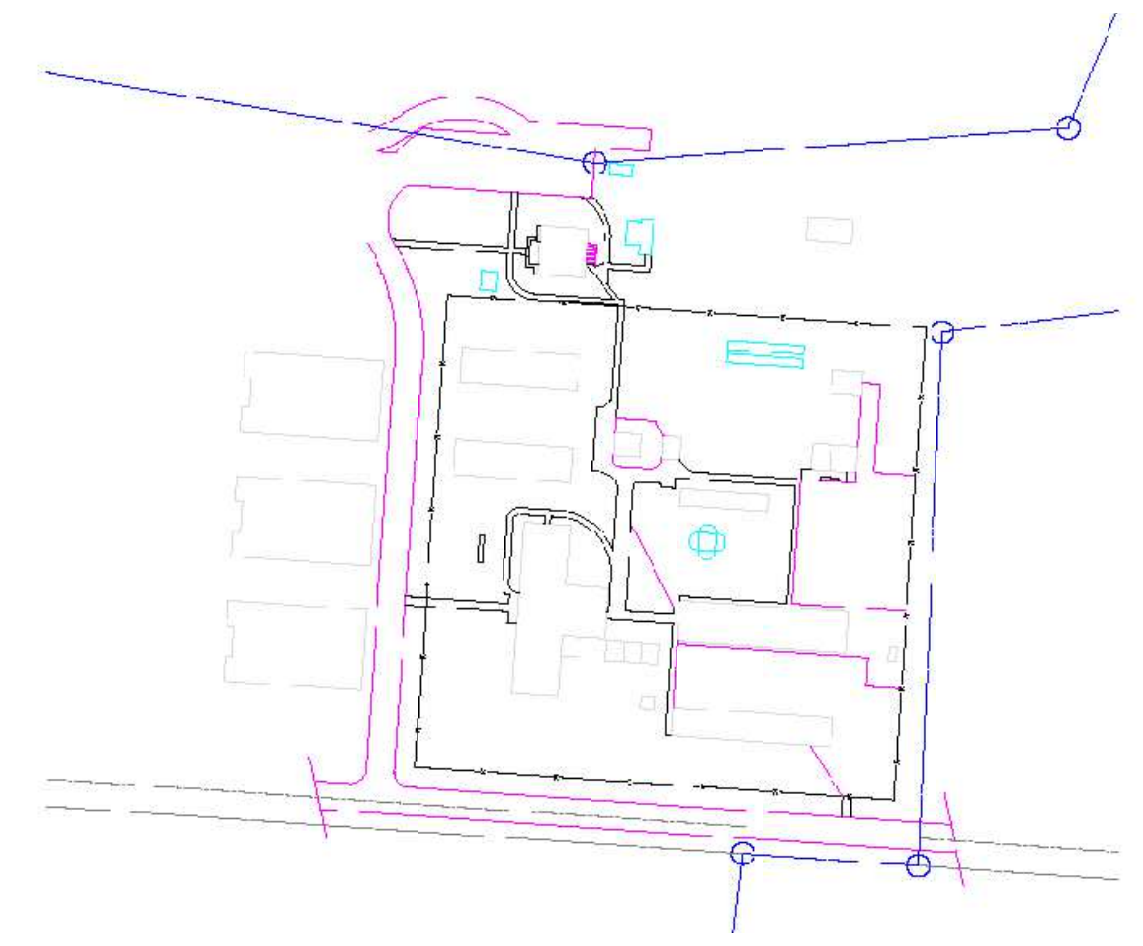
B3 VTR DETAIL  
P-101 1 1/2" = 1'-0"



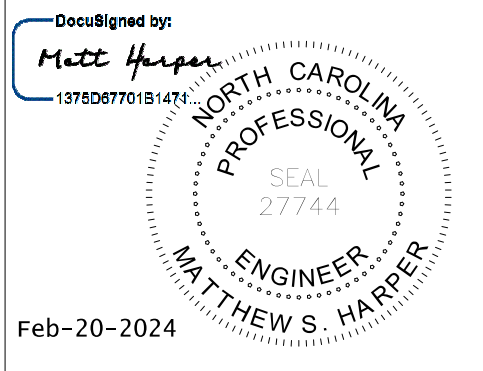
A1 WATER HEATER PLATFORM DETAIL  
P-101 NONE



A3 EXPANSION TANK SUPPORT DETAIL  
P-101 NONE



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Feb-20-2024

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DRAWN BY: APD  
DESIGNED BY: BD  
CHECKED BY: BD  
CADD DWG NO: P-101  
JOB ORDER NO: 4369  
PLOT DATE: 09/20/23

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LEXINGTON NC

**DAVIDSON CC ACCESSIBILITY IMPROVEMENTS**

SCO ID # 23-26652-01A

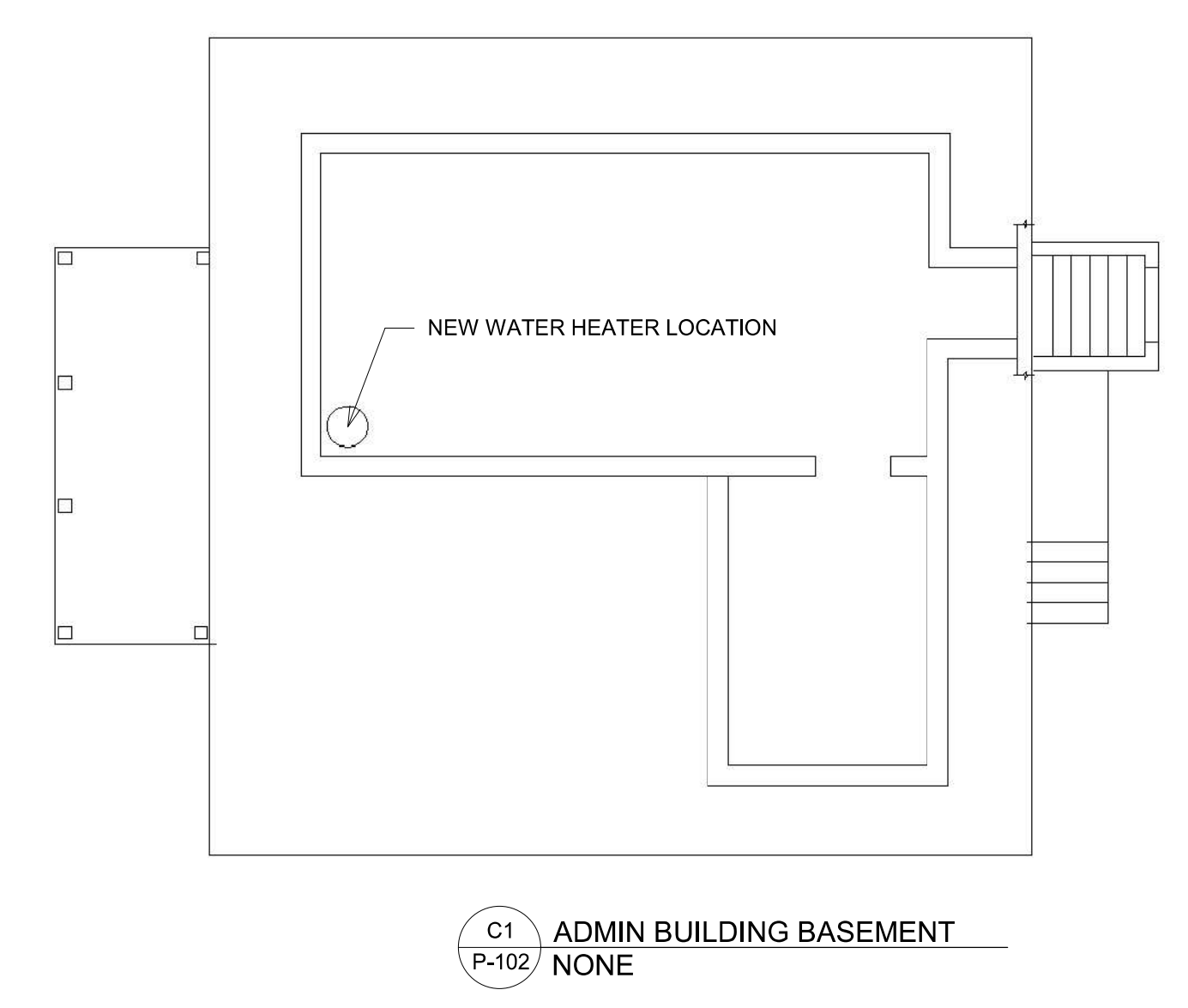
**PLUMBING PLANS NEW WORK**

D

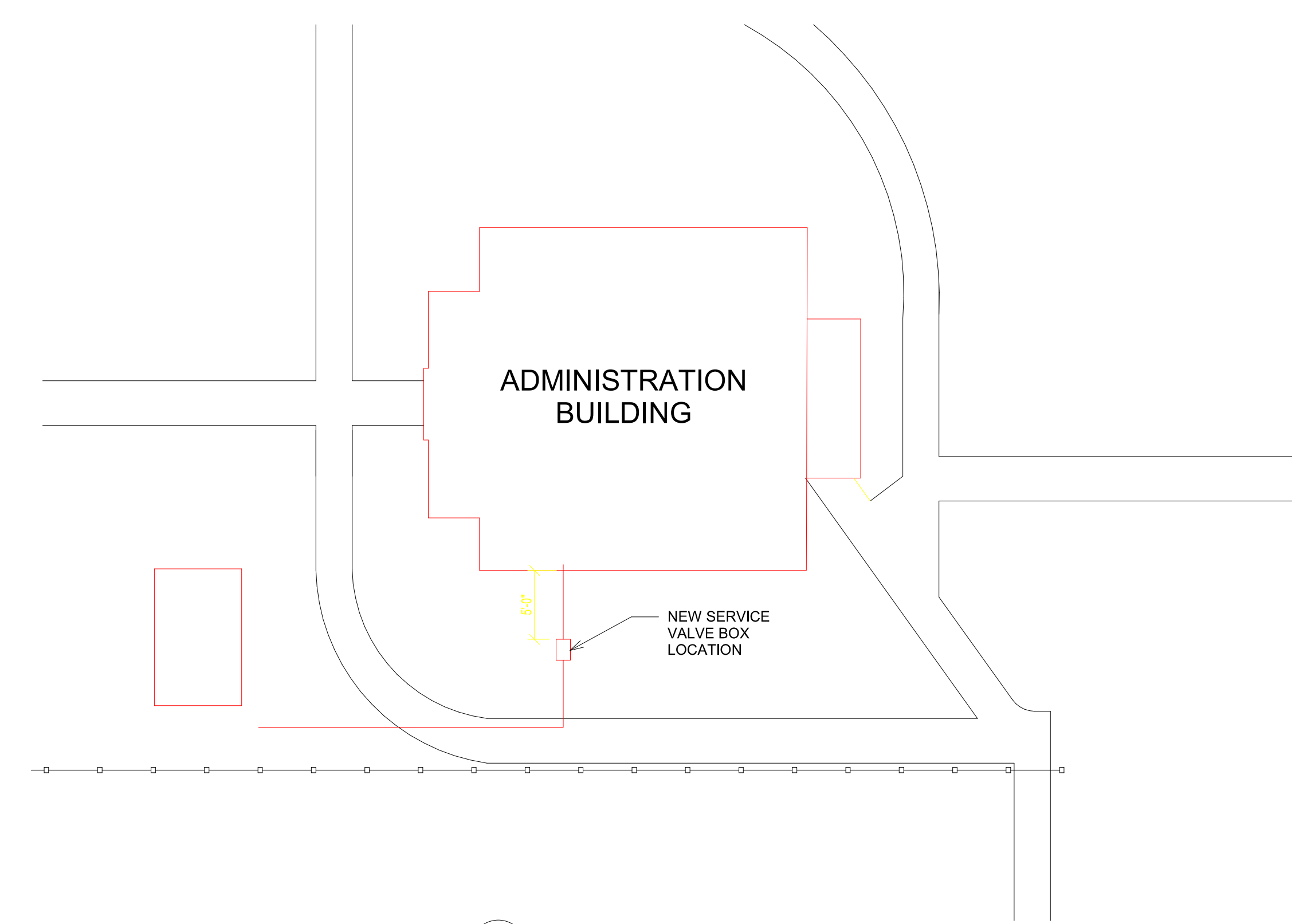
C

B

A



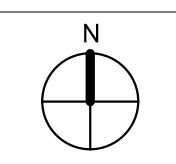
C1 ADMIN BUILDING BASEMENT  
NONE



C3 ADMIN BLDG UTILITIES  
1/8" = 1'-0"



KEY PLAN



Designed by:  
*Matthew S. Harper*  
137026770 (919) 455-2744

PROFESSIONAL  
SEAL  
27744  
ENGINEER  
MATTHEW S. HARPER

Feb-20-2024

09/20/23 CD Submittal

NO.	DATE	REVISION

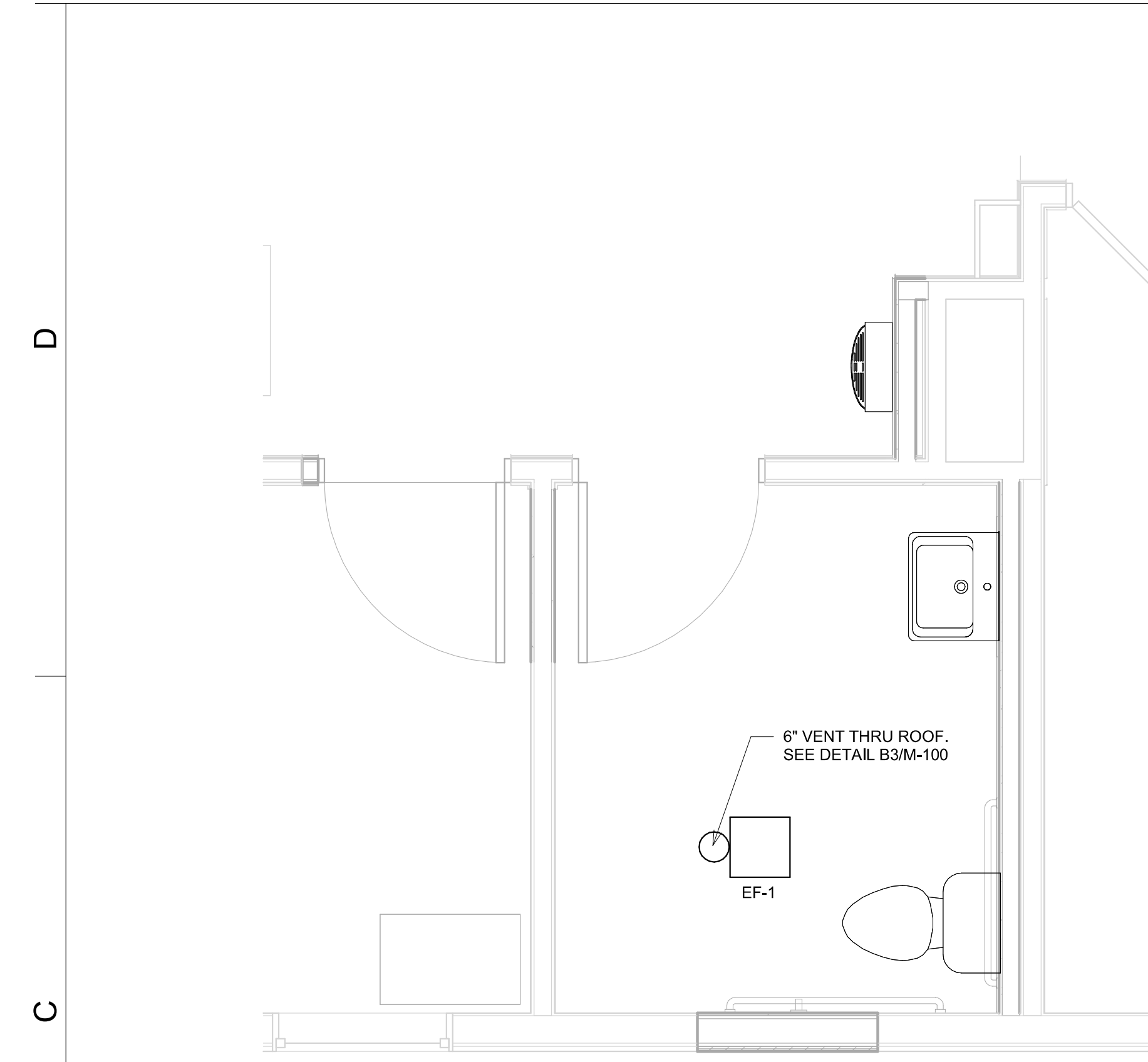
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DESIGNED BY: BD  
CHECKED BY: BD  
CADD DWG NO: P-102  
JOB ORDER NO: 4369  
PLOT DATE: 09/20/23

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LEXINGTON NC

**DAVIDSON CC ACCESSIBILITY IMPROVEMENTS**

SCO ID # 23-26652-01A

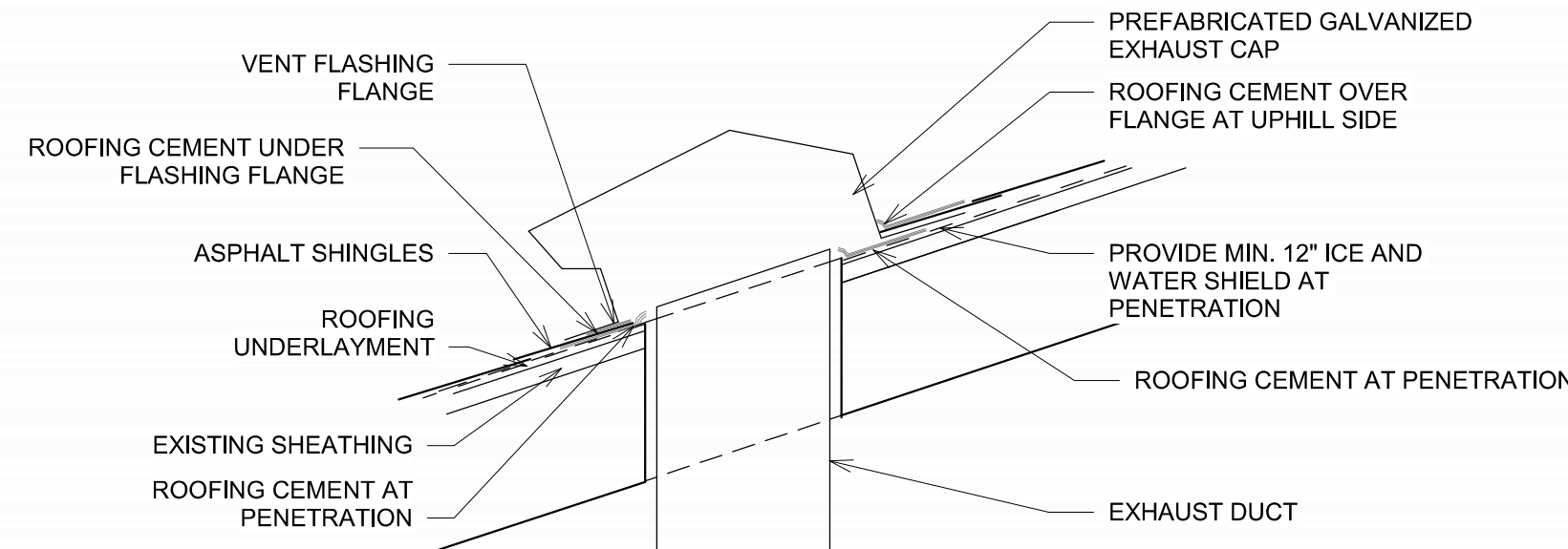
PLUMBING PLAN WATER SERVICE LOCATION



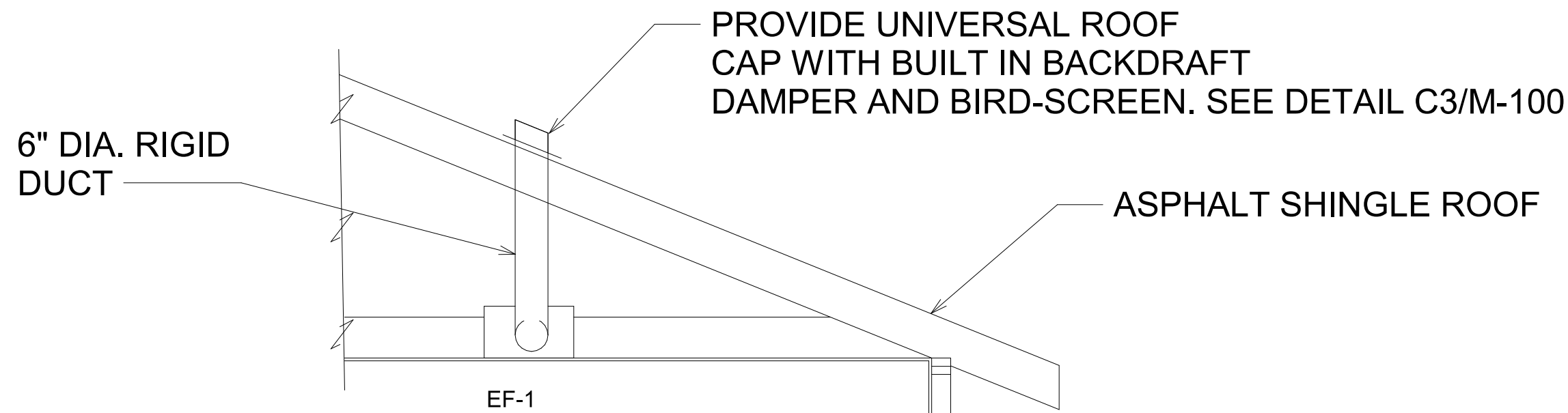
C1 FIRST FLOOR MECHANICAL - PLAN - ENLARGED PLAN  
1/2" = 1'-0"

EXHAUST FAN SCHEDULE											
DESIGNATION	MANUFACTURER	MODEL NO.	TYPE	SERVICE	CFM	TSP IN H2O	SONES	RPM	MHP	VOLTAGE/PHASE	REMARKS
EF-1	GREENHECK	SP-A70-QD	CEILING MOUNTED	TOILET EXHAUST	70	0.10	<0.3	790	15.6 W	120/1	1,2,3,4

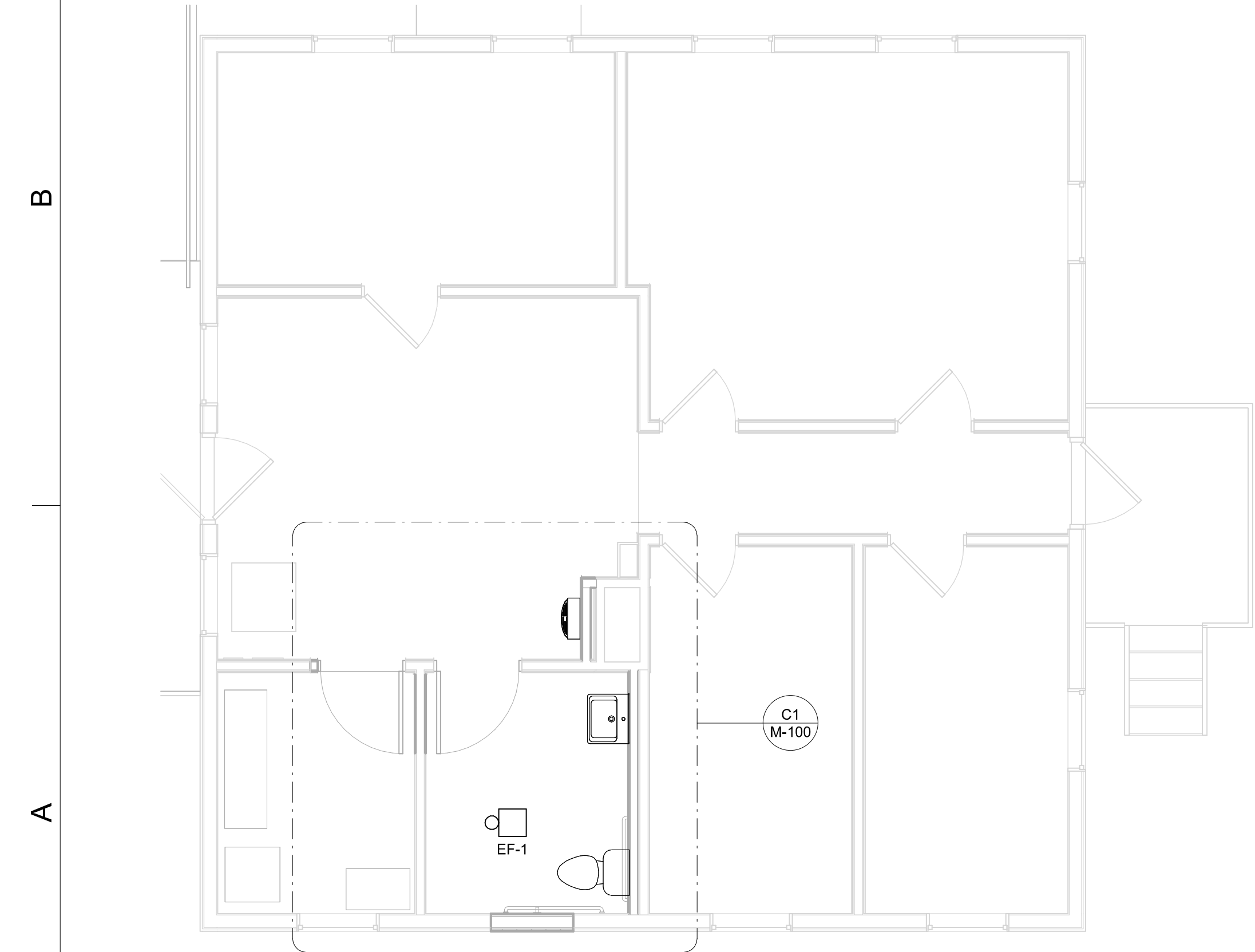
**REMARKS:**  
 1. INTERLOCK FAN WITH LIGHT SWITCH.  
 2. PROVIDE WITH INTERNAL PLUG-IN TYPE MOTOR DISCONNECT.  
 3. PROVIDE WITH UNIVERSAL ALUMINUM ROOF CAP WITH BUILT-IN BIRD SCREEN AND DAMPER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.  
 4. EQUALS BY ACME, COOK, CARNES, OR APPROVED EQUAL.



C3 EXHAUST VENT  
1 1/2" = 1'-0"



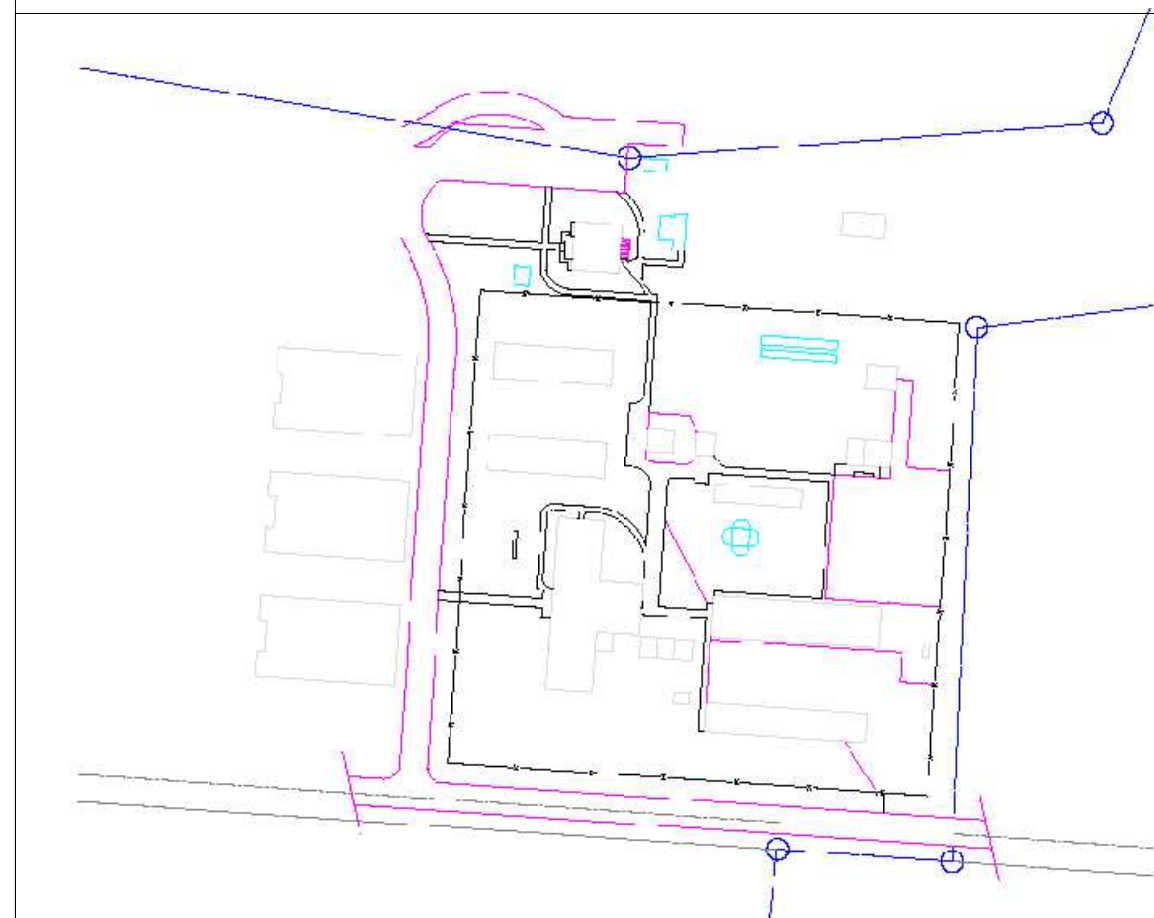
B3 EF-1 VENT TERMINATION DETAIL  
NONE



A1 FIRST FLOOR MECHANICAL - PLAN  
1/4" = 1'-0"

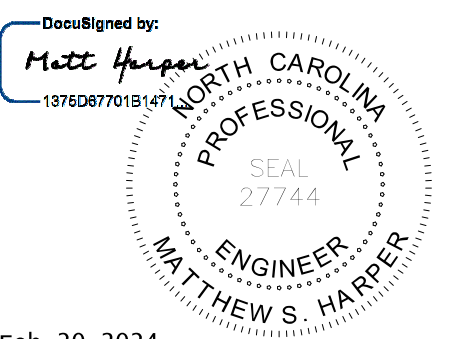
**MECHANICAL NOTES**

- PROVIDE CEILING MOUNTED EXHAUST FAN.
- EXTEND EXHAUST DUCT THROUGH ROOF. TERMINATE WITH UNIVERSAL ROOF CAP. DEE DETAIL 1/M-100.



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Feb-20-2024

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 CHECKED BY: BD  
 CADD DWG NO: M-100  
 JOB ORDER NO: 4369  
 PLOT DATE: 09/20/23

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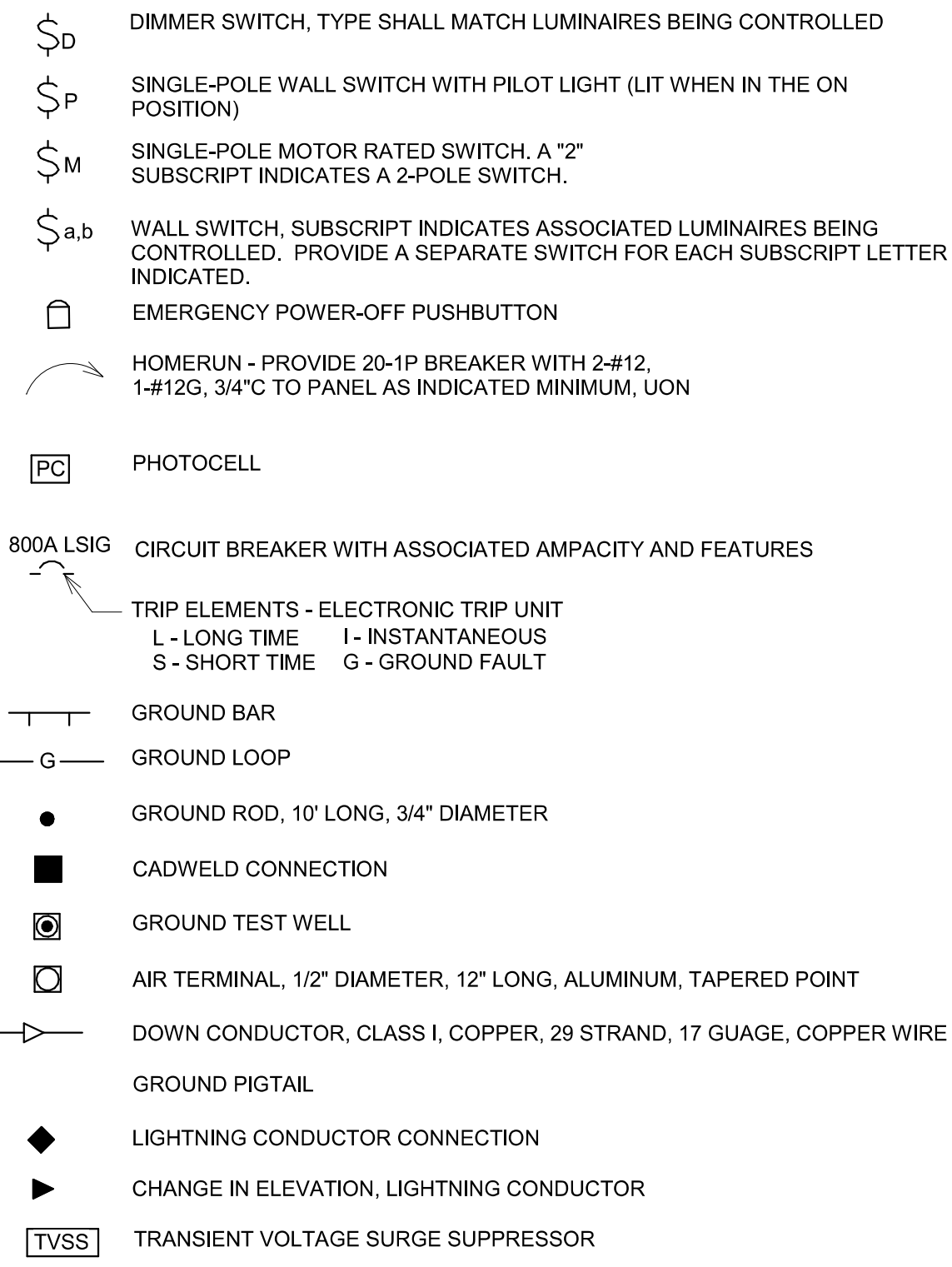
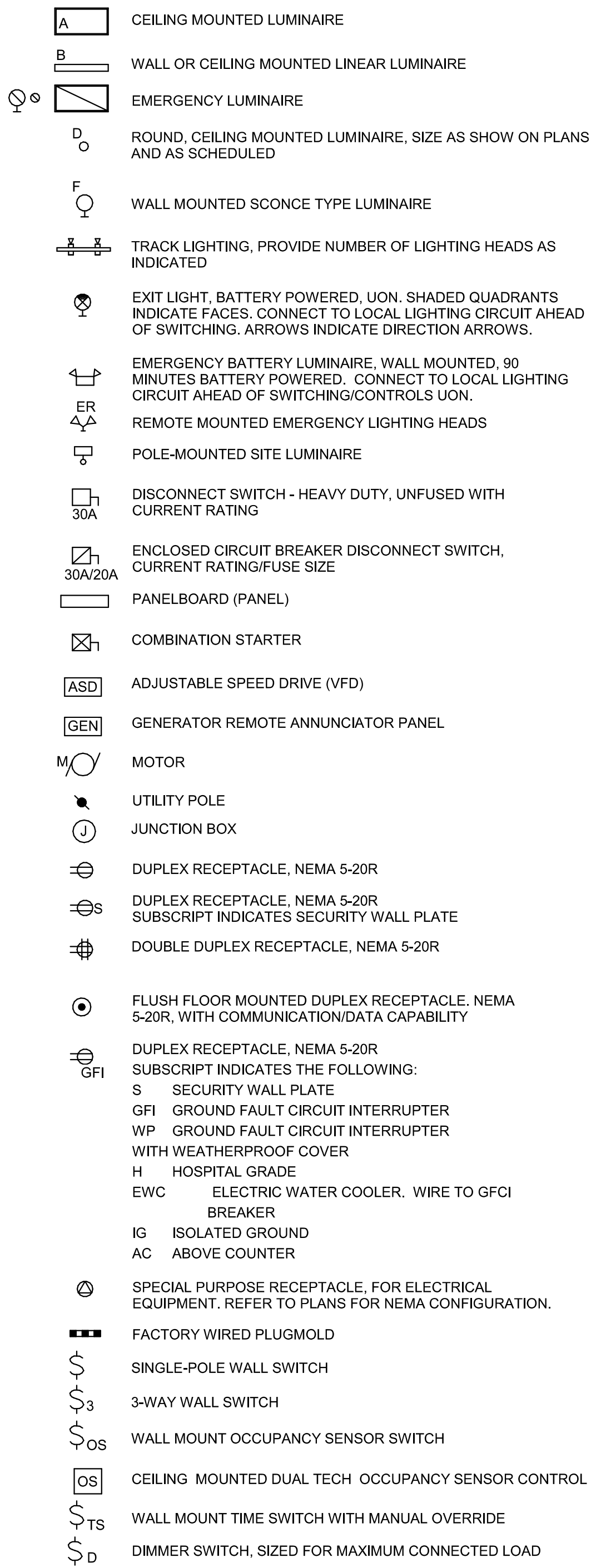
SCO ID # 23-26652-01A

MECHANICAL PLAN

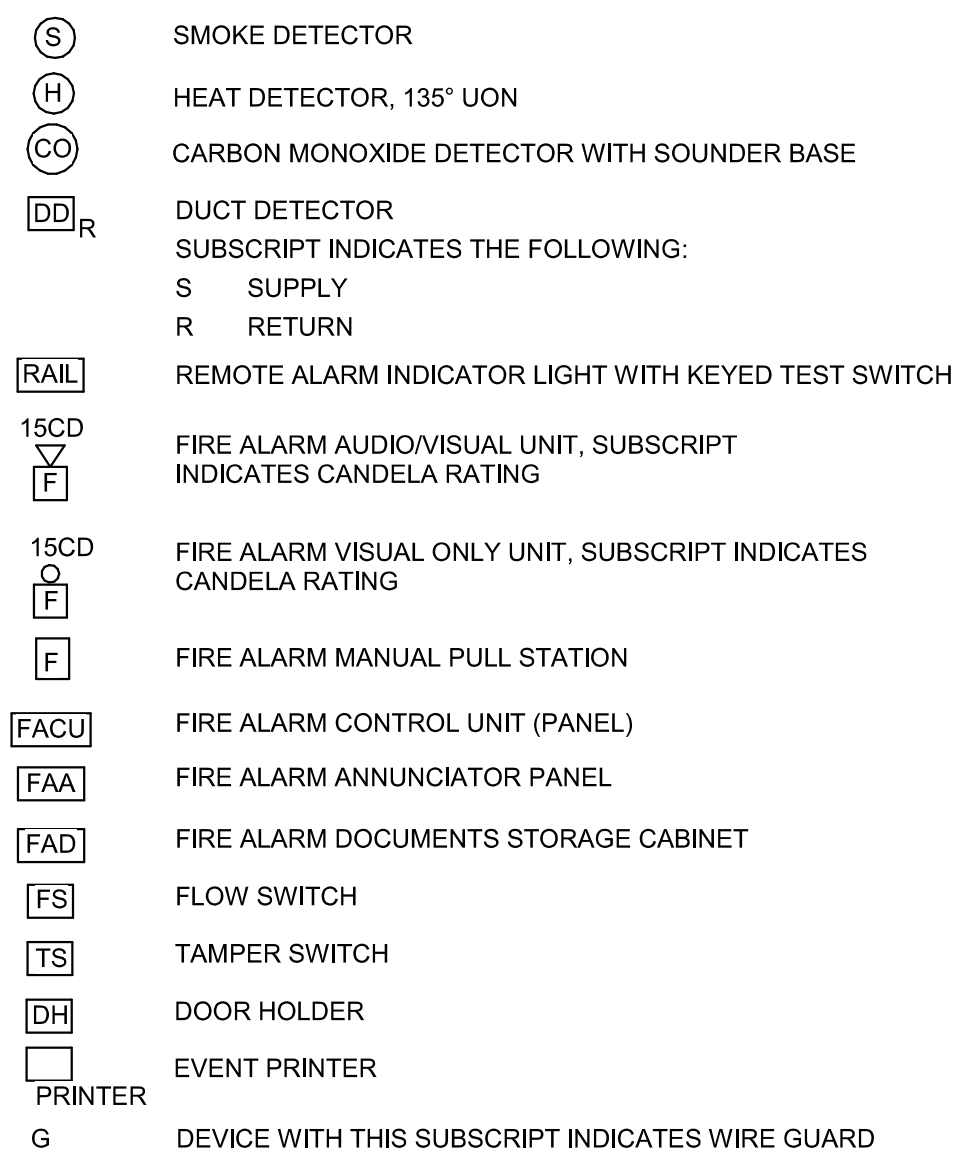
**M-100**

ELECTRICAL SYMBOLS LEGEND

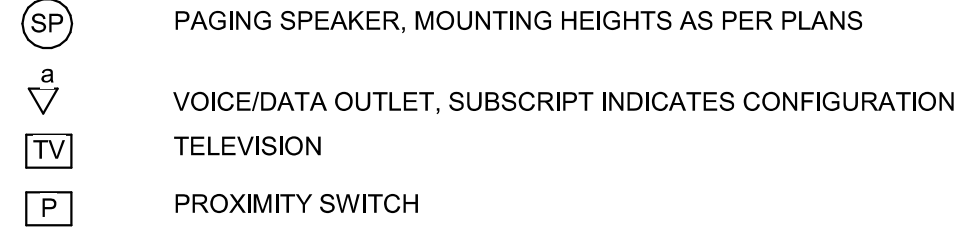
LUMINAIRE SYMBOLS: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL REQUIREMENTS. LETTER DESIGNATES TYPE.



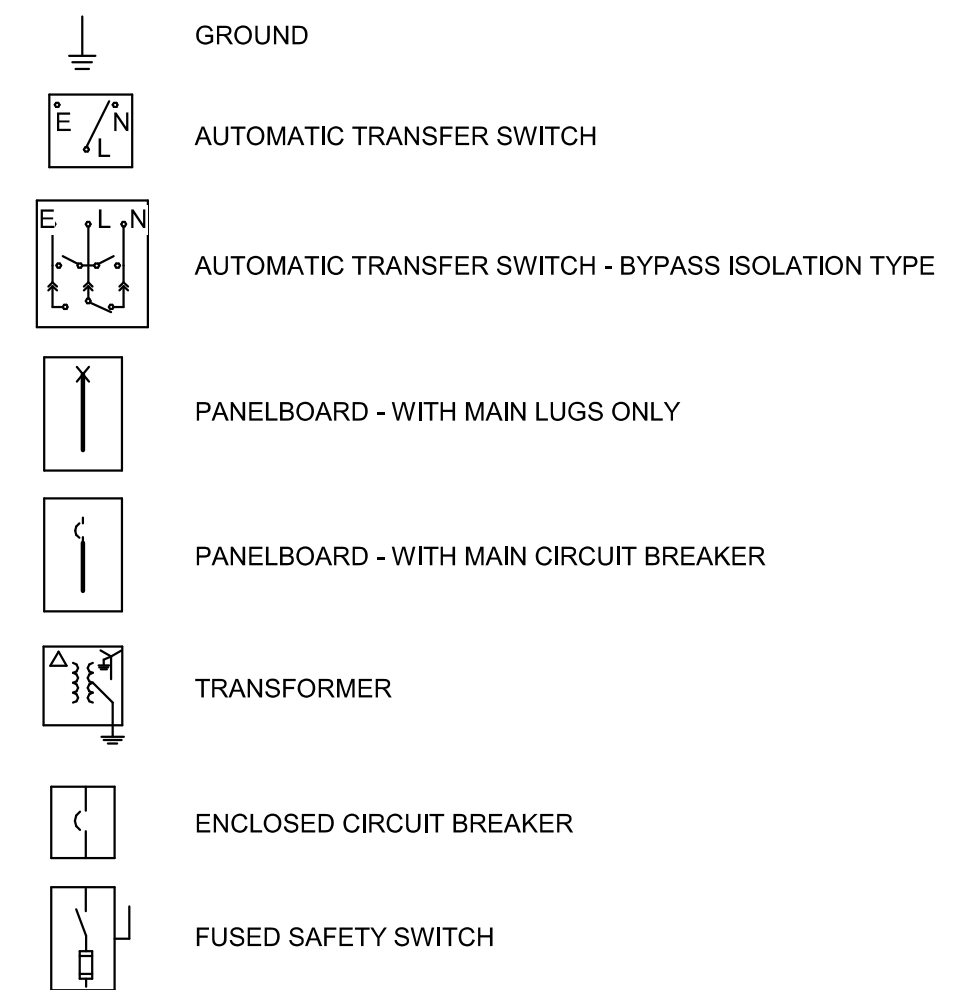
FIRE ALARM SYMBOLS LEGEND



COMMUNICATIONS SYMBOLS LEGEND



ELECTRICAL DIAGRAM SYMBOLS LEGEND



GENERAL ELECTRICAL NOTES

- General electrical notes A through K covering equipment standards, conductor sizing, grounding, and installation requirements.

FIRE ALARM GENERAL NOTES:

- Fire alarm general notes A through F covering conduit requirements, detector placement, and signaling line specifications.

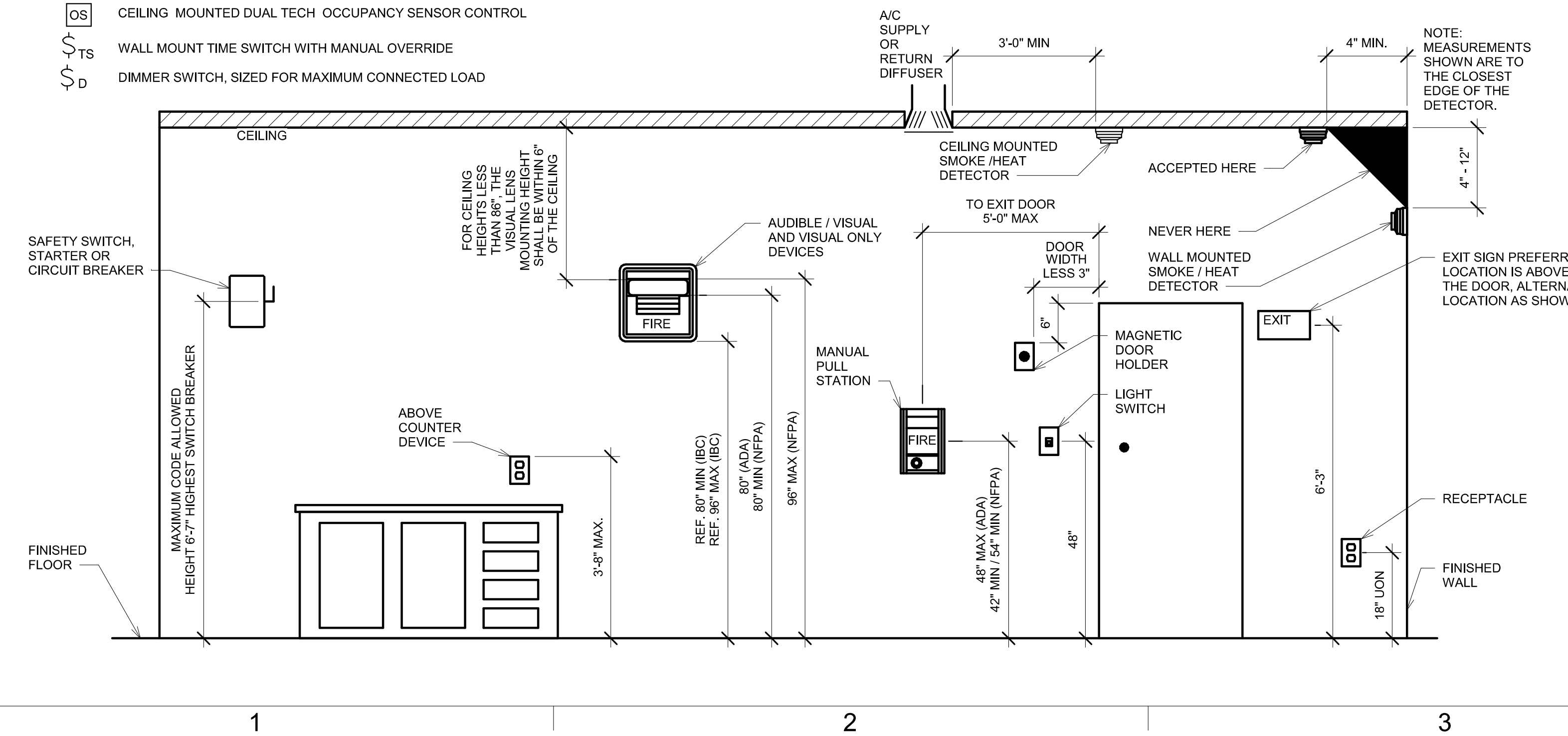
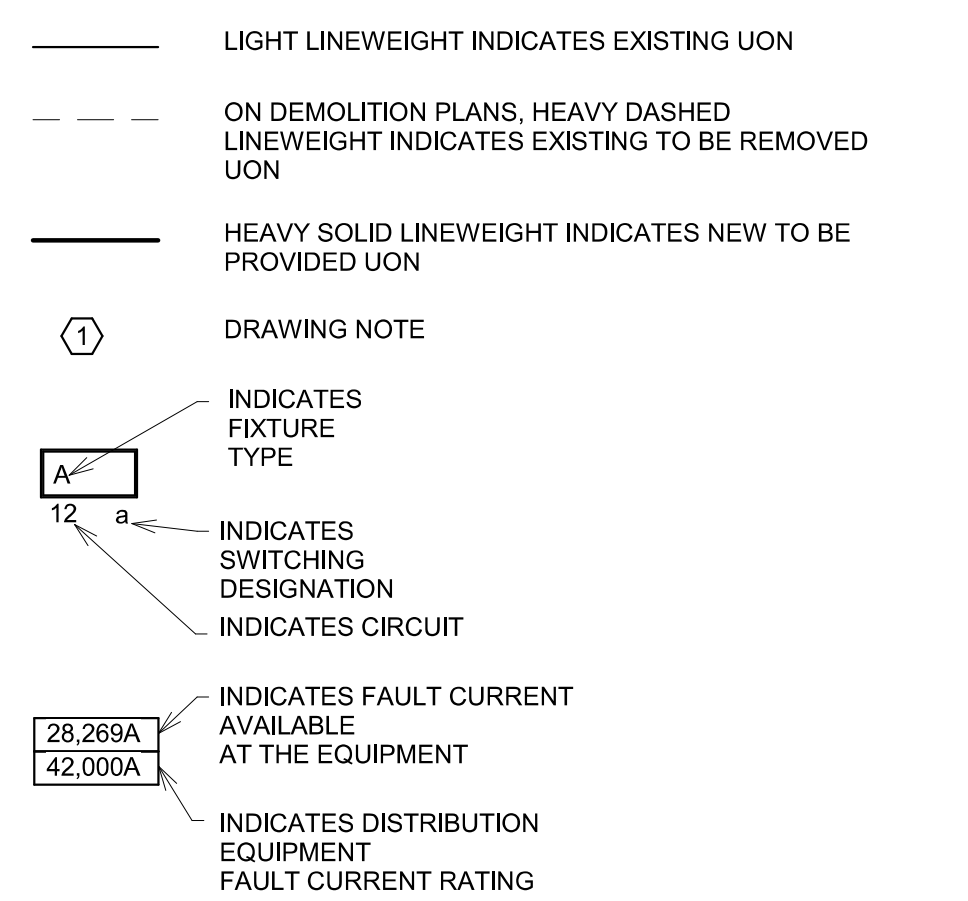
COMMUNICATION GENERAL NOTES:

- Communication general notes A through F covering conduit and back box installation for communication devices.

ABBREVIATIONS

Table of abbreviations including ASD, AFF, AFG, AIC, AL, ARCH, ATS, AWG, BFC, BFG, BLDG, C, C/B, CKT, CT, CU, DC, DEG, DISC, DN, DWG, EC, ELEC, EMT, ENG, ER, EWC, EX, (E), EXIST, F, FACU, FIXT, FLA, FLR, FT, G.GND, GC, GEC, GRS, HOA, HH, HID, HP, HPF, HR, HTR, HZ, IMC, INCAND, JB, K, KCMIL, KV, KVA, KW, KWH, LED, LT(S), LITG, MC, MECH, MFG, MH, MISC, MTD, MTS, N/A, NC, NEC, NL, NO, NTS, OC, P, PH, PNL, PVC, RECEPT(S), SE, SF, SW, SWBD, SWGR, TSD, UL, UON, UPS, V, VA, W, WP, XFMR.

ELECTRICAL DRAWING PRESENTATION



NORTH CAROLINA DEPARTMENT OF ADULT CORRECTION
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Feb-20-2024

09/20/23 CD Submittal

NO. DATE REVISION

DRAWN BY: RMS
DESIGNED BY: EM
CHECKED BY: EM
CADD DWG NO: E-000
JOB ORDER NO: 4369
PLOT DATE: 10/25/22

DAVIDSON CORRECTIONAL CENTER
LEXINGTON, NC

DAVIDSON CC ACCESSIBILITY IMPROVEMENTS

SCO ID # 23-26652-01A

ELECTRICAL GENERAL NOTES, ABBREVIATIONS & SYMBOL LEGEND

E-000

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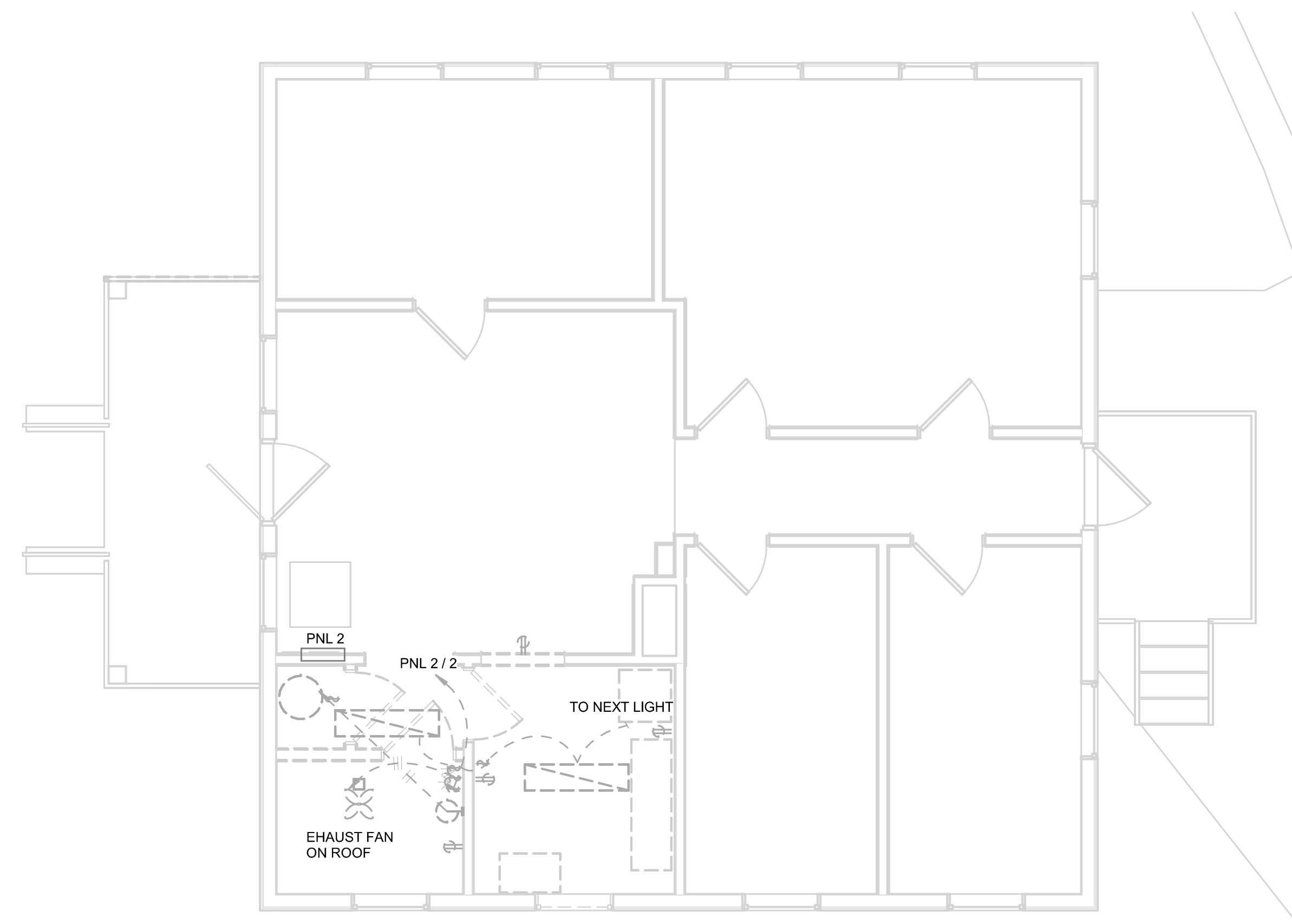
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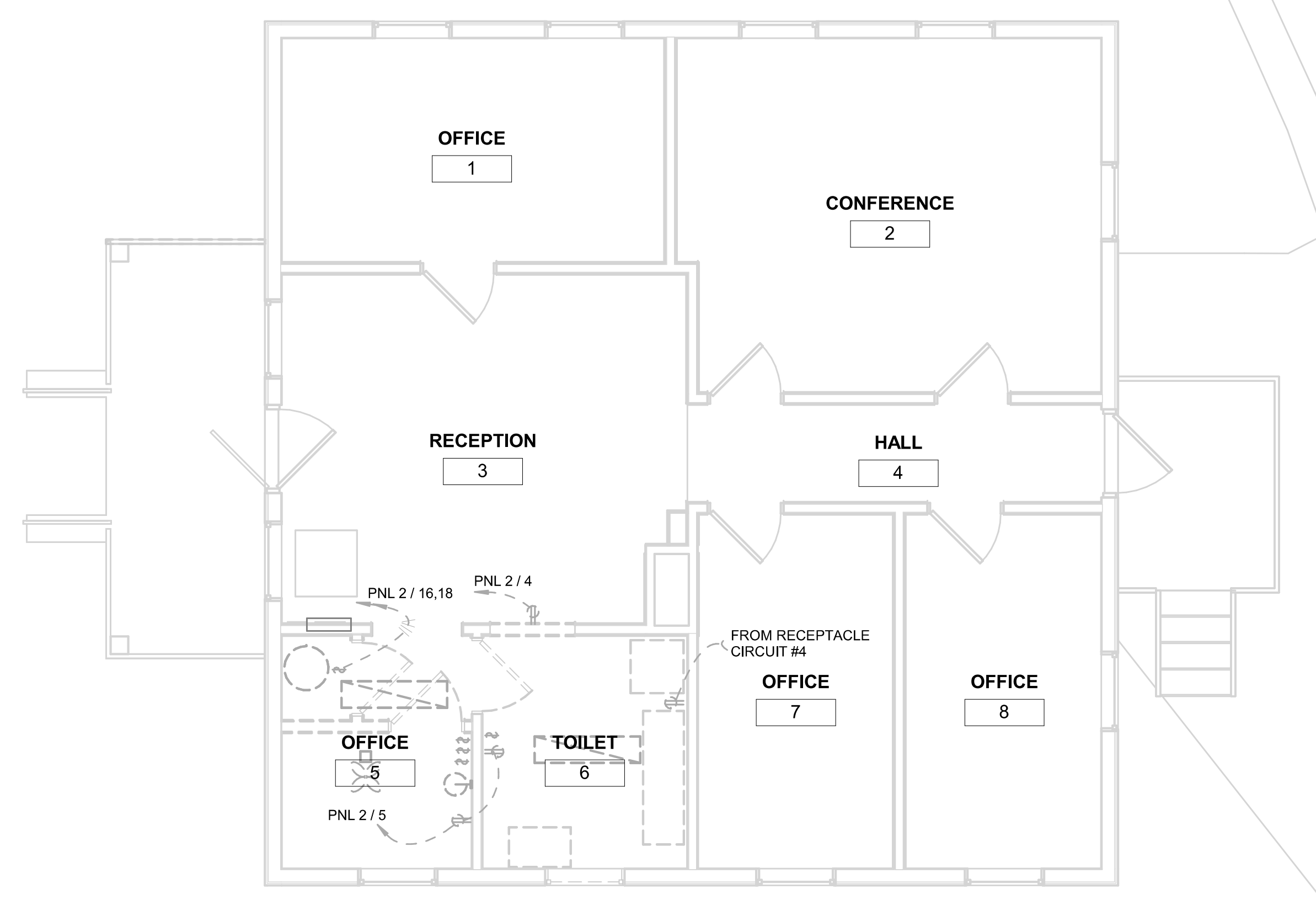
C

B

A



**A1**  
ED-100  
**LIGHTING DEMOLITION PLAN**  
1/4" = 1'-0"



**1**  
ED-100  
**POWER DEMOLITION PLAN**  
1/4" = 1'-0"

**GENERAL NOTES**

- A. DEMO THE EXISTING LIGHT FIXTURES/ AND RECEPTACLES IN THE BATHROOM AND ARMORY AREA. KEEP THE BOXES, WIRING AND CONDUITS FOR REUSE.
- B. DEMO THE EXISTING BATHROOM EXHAUST FAN ON THE ROOF AND ALL BOXES, CONDUITS AND WIRING ASSOCIATED WITH IT.
- C. RELOCATE THE EXISTING RECEPTACLE (WATER FILTER RECEPTACLE) IN THE RECEPTION AREA TO THE NEAST WALL AND RECONNECT BACK TO THE PANEL.
- D. RE-ADJUST THE MOUNTING HEIGHTS OF THE EXISTING RECEPTACLES IN THE BATHROOM AND ARMORY AREA TO MATCH THE HEIGHT OF THE EXISTING RESPECTIVE RECEPTACLES.
- E. ALL DEMOLITION WORK WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
- F. MAINTAIN THE EXISTING WIRING AND BOXES REQUIRED FOR REUSE. REPATCH SURFACES AS REQUIRED



**NORTH CAROLINA DEPARTMENT OF ADULT CORRECTION**

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Feb-20-2024

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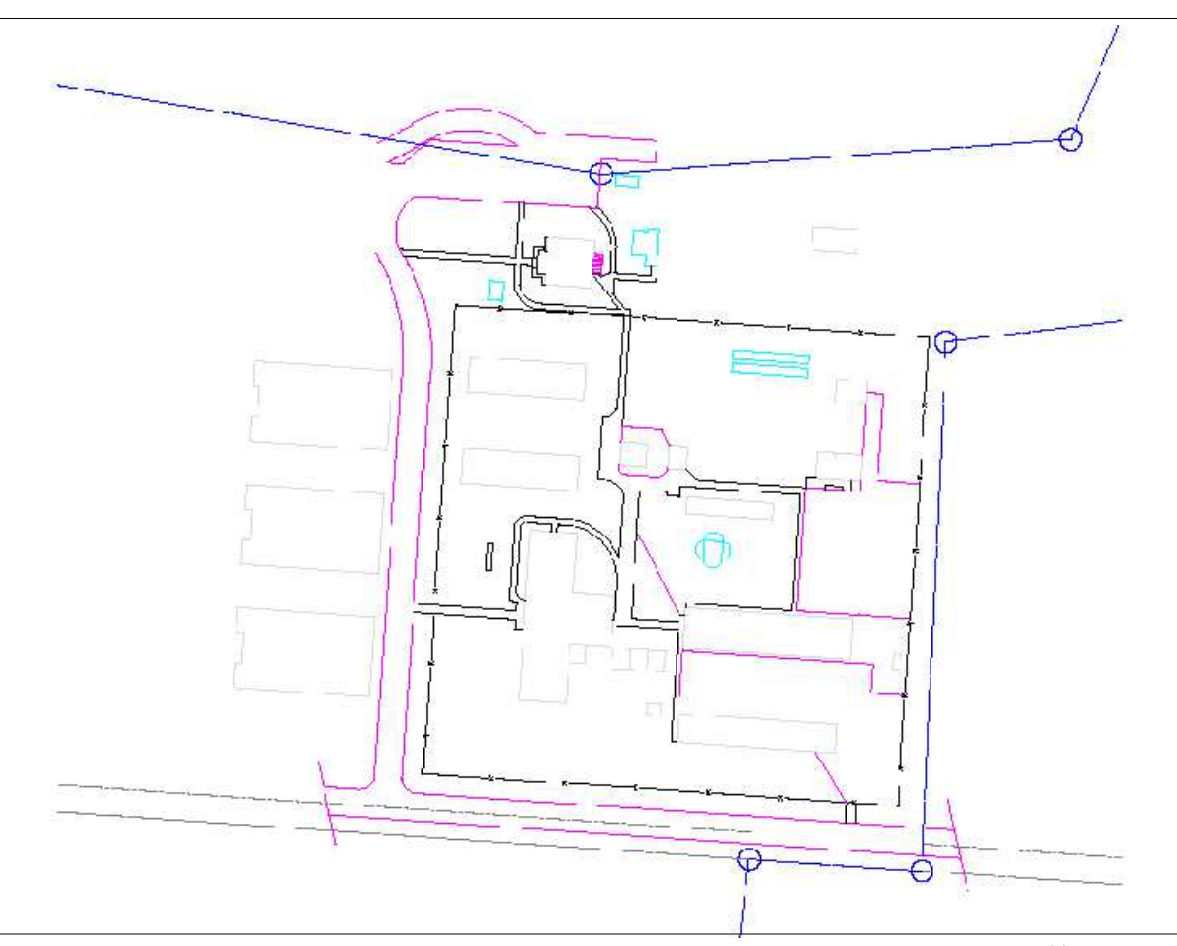
DRAWN BY: NA  
DESIGNED BY: EM  
CHECKED BY: EM  
CADD DWG NO: ED-100  
JOB ORDER NO: 4369  
PLOT DATE: 09/20/23

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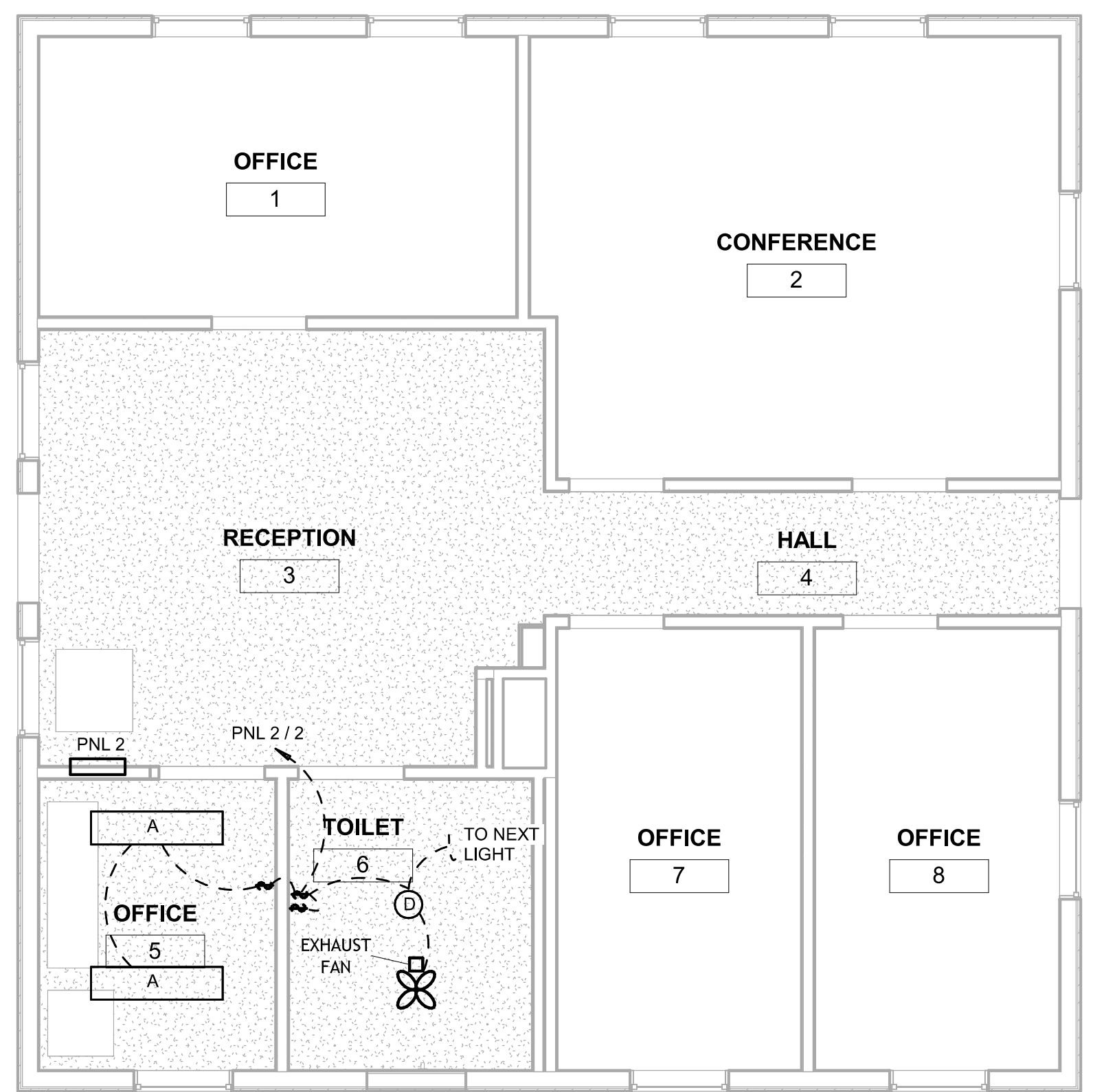
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**ELECTRICAL DEMOLITION PLANS**



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C1 LIGHTING PLAN  
EL-100 1/4" = 1'-0"

LIGHT FIXTURE SCHEDULE								
Mark	Manufacturer	Model or equivalent	Type Comments	Luminous Flux	Color Temp.	CRI	Electrical Data	Count
A	LITHONIA/ HUBBELL/ PHILIPS OR EQUIVALENT	FMLL 9 30840	Type one piece thermal formed white polycarbonate diffuser, long-life LED With high-efficient driver.	3353 lm	4000 °F	80	120 V/1-37 VA	2
D	JUNO/ LITHONIA/ HUBBELL OR EQUIVALENT	JSF 13IN	13" diam. Energy efficient down light, uniform lens, solid ring with white finish none conductive	1300 lm	4000 °F	90	120 V/1-22 VA	1

Electrical Load Profile						
Load Classification	Removed Load	Connected Load	Diversity	New Demand	Net Demand	Total Amp Removed
Lighting Load	280 VA	110 VA	1	110 VA	-170 VA	
Receptacle	540 VA	900 VA	1	900 VA	360 VA	
Exhaust Fan		38 VA	1	38 VA	38 VA	
Water Heater	4500 VA	1650 VA	1	1650 VA	-2850 VA	
<b>Total Demand Load</b>	<b>5320 VA</b>	<b>2698 VA</b>		<b>2698 VA</b>	<b>-2622 VA</b>	
System Voltage: 240 / 120 V						10.93 A

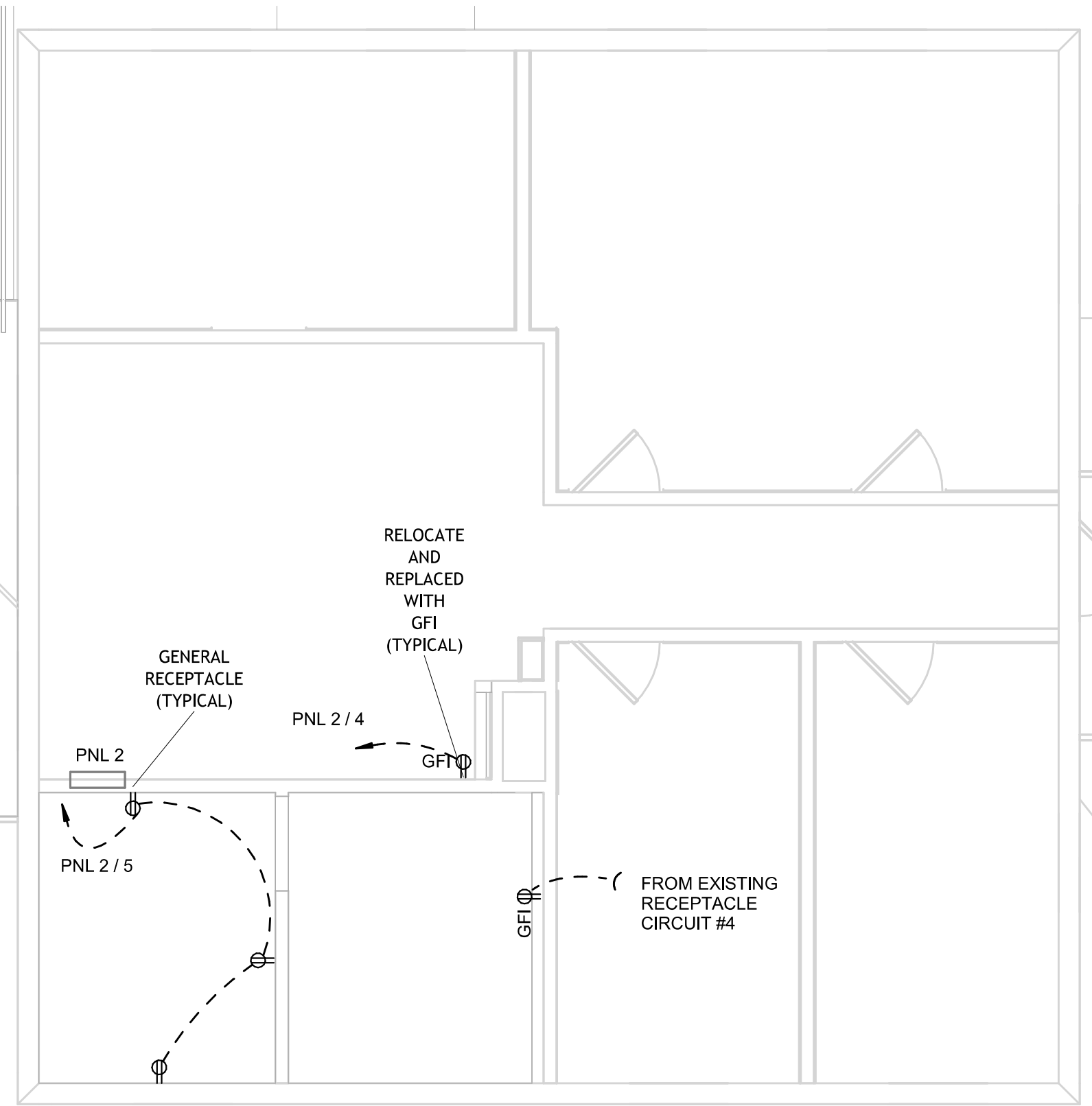
LOAD SERVED	VA PER PH		CKT. NO.	PHASE	CKT. NO.	CKT. BRKR.	VA PER PH		LOAD SERVED
	A	B					A	B	
OFFICE LIGHTS			1	A	2	20A/1P			FRONT OFFICE & BATHROOM LIGHTS
FRONT OFFICE RECEPTACLES			3	A	4	20A/1P			RECEPTACLE (WATER FILTER)
VISITOR BATHROOM RECEPTACLE			5	B	6	20A/1P			SPARE
MAIL ROOM RECEPTACLE			7	A	8	20A/1P			OFFICE RECEPTACLE
SPARE			9	B	10	20A/1P			BASEMENT LIGHTS
SPARE			11	A	12	20A/1P			POND
AIR HANDLER			13	B	14	20A/1P			NEW WATER HEATER (SEE NOTE 2)
SHREDDER MACHINE			15	A	16	40A/2P			SPARE (SEE NOTE 1)
BOTTOM WATER HEATER			17	B	18	40A/2P			

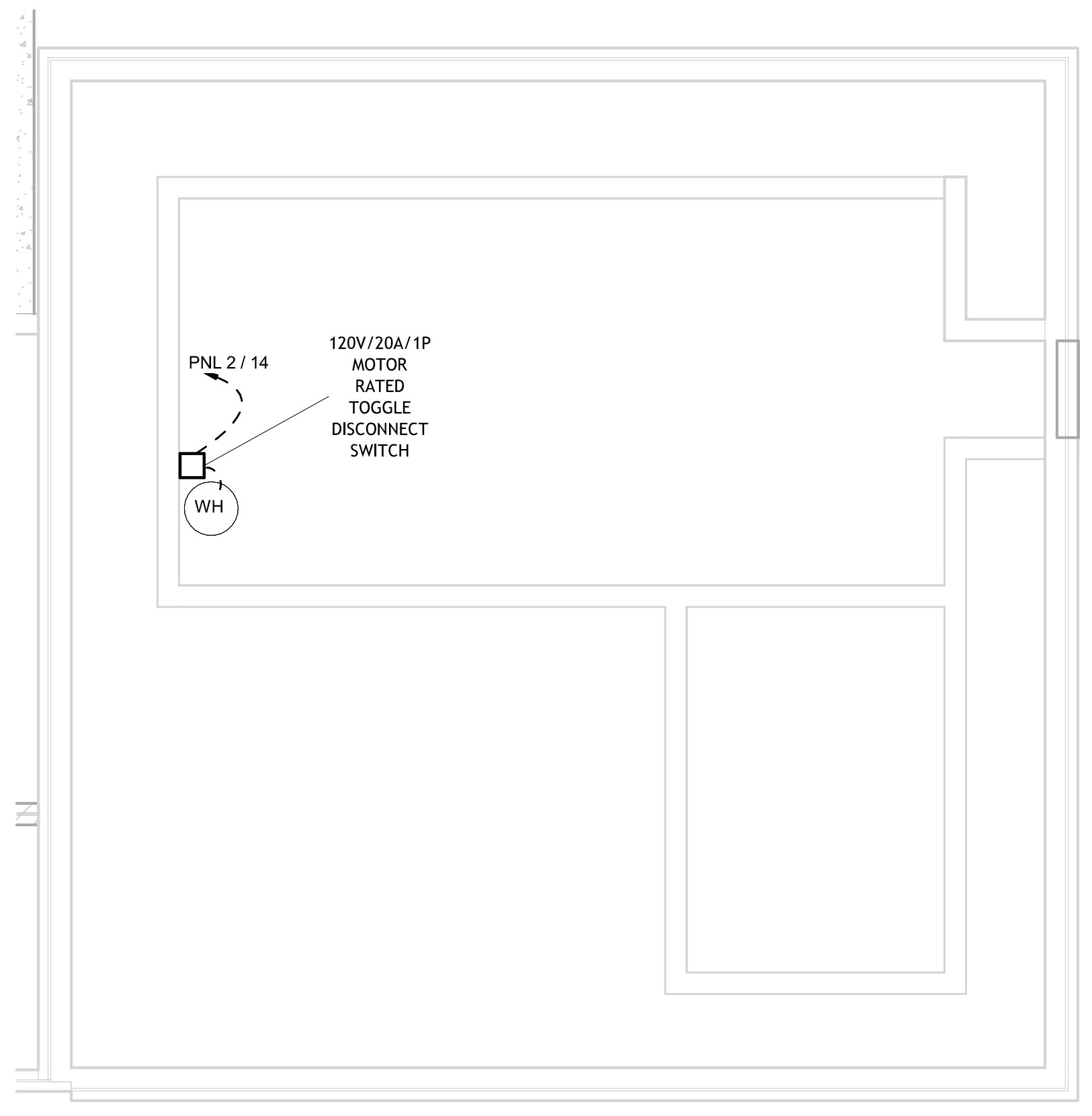
LOAD TYPE	KVA		DEMAND
	CONNECTED	DIV.	
EXISTING LOAD		125%	
RECEPTACLES		100%	
MOTOR		100%	
HVAC		100%	
LIGHTING		125%	
KITCHEN		100%	
OTHER		100%	
<b>TOTAL</b>			

NOTE 1: DEMO EXISTING WATER HEATER. CONDUIT & WIRING FROM THE PANEL & MARK THE BREAKER AS SPARE.  
 NOTE 2: USE EXISTING SPARE BREAKER TO SERVE THE NEW LOAD AS SHOWN.  
 NOTE 3:

C3 EXISTING PANEL "PANEL 2"  
EL-100 12" = 1'-0"

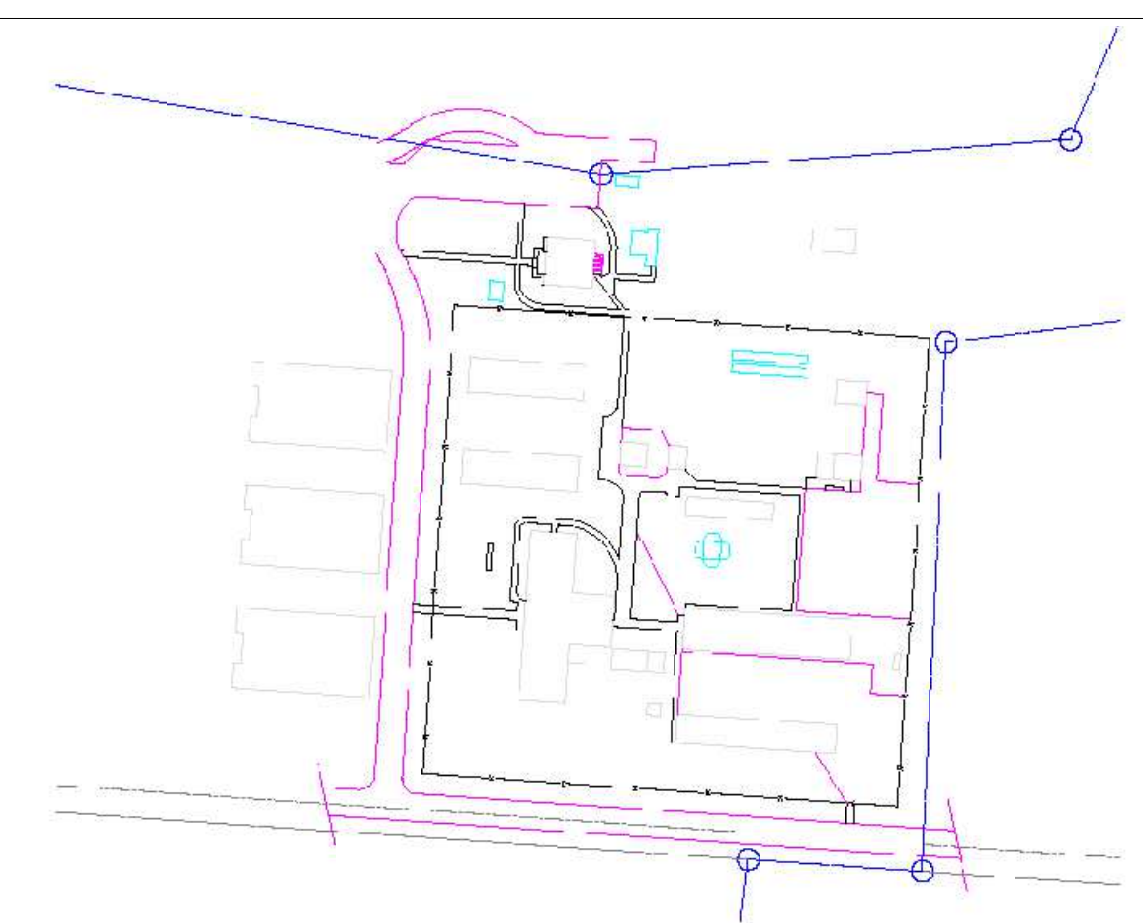


A1 POWER PLAN  
EL-100 1/4" = 1'-0"



A3 BASEMENT  
EL-100 1/4" = 1'-0"

- NOTES:**
- PROVIDE A NEW LIGHT FIXTURE AS SHOWN ON THE PLAN AND CONNECT TO THE EXISTING LIGHTING CIRCUIT. RECONNECT THE LIGHTING CIRCUIT BACK INTO THE PANEL.
  - PROVIDE NEW OUTLETS IN THE BATHROOM AND ARMORY AREA AS SHOWN ON THE PLAN AND CONNECT TO THE EXISTING RECEPTACLE CIRCUIT. RECONNECT THE CIRCUIT BACK TO THE PANEL.
  - RELOCATE THE EXISTING WATER FILTER RECEPTACLE IN THE RECEPTION AREA TO THE NEAST WALL AND RECONNECT IT BACK TO THE PANEL. REPLACE WITH GFI AND REPOSITION THE RECEPTACLE OUTLET IN THE REMODELED BATHROOM TO ABOVE THE HAND WASH BASING.
  - PROVIDE CEILING-MOUNTED BATHROOM EXHAUST FAN AS SHOWN ON THE PLAN AND CONNECT TO THE EXISTING LIGHTING CIRCUIT WITH OWN SWITCH.
  - ALL LIGHTING AND RECEPTACLE CIRCUITS SHALL BE TYPE THHN/ THWN 2-#12 AWG CU, 1-#12 AWG CU GROUND IN 3/4" CONDUIT. REPATCH AND SMOOTH FINISH SURFACE AS REQUIRED.
  - PROVIDE 120V/20A/1P MOTORRATED TOGGLE SWITCH TO SERVE A NEW WATER HEATER IN THE BASEMENT. USE 2-#12 AWG CU, 1-#12 AWG CU GROUND IN 3/4" CONDUIT TO CONNECT TO THE EXISTING SPARE BREAKER IN "PANEL 2" AS SHOWN.



KEY PLAN



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Feb-20-2024

09/20/23 CD Submittal

NO. DATE REVISION

DRAWN BY: NA  
 DESIGNED BY: EM  
 CHECKED BY: EM  
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**DAVIDSON CORRECTIONAL CENTER**  
 LEXINGTON, NC

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SCO ID # 23-26652-01A

**ELECTRICAL LIGHTING & POWER PLAN**

**EL-100**

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Envelope Id: 7048004AB3FE43E0B17330BFF239D03C  
 Subject: Complete with DocuSign: 23-26652-01A-DAC-IFC-DWG.pdf  
 Source Envelope:  
 Document Pages: 38 Signatures: 32  
 Certificate Pages: 5 Initials: 0  
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 Enveloped Stamping: Enabled  
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 Raleigh, NC 27699-4201  
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<b>Carbon Copy Events</b>	<b>Status</b>	<b>Timestamp</b>
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<b>Witness Events</b>	<b>Signature</b>	<b>Timestamp</b>
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<b>Envelope Summary Events</b>	<b>Status</b>	<b>Timestamps</b>
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Certified Delivered	Security Checked	2/20/2024 8:22:43 AM
Signing Complete	Security Checked	2/20/2024 8:23:09 AM
Completed	Security Checked	2/20/2024 8:23:09 AM

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