

ARPA Renovations

GIRLS INC. of Meriden

130 Lincoln St, Meriden, CT 06451

CWA PROJECT NO: 2313



ISSUED FOR BIDDING
MARCH 12, 2024

ARCHITECT



CHRISTOPHER WILLIAMS ARCHITECTS
85 Willow Street New Haven, CT 06511
203 776 0184 cwarchitectsllc.com

MEP ENGINEER



INNOVATIVE ENGINEERING SERVICES, LLC
AN INTEGRATED ENGINEERING + DESIGN FIRM
33 North Plains Industrial Rd Wallingford, CT 06492
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ENVIRONMENTAL CONSULTANT

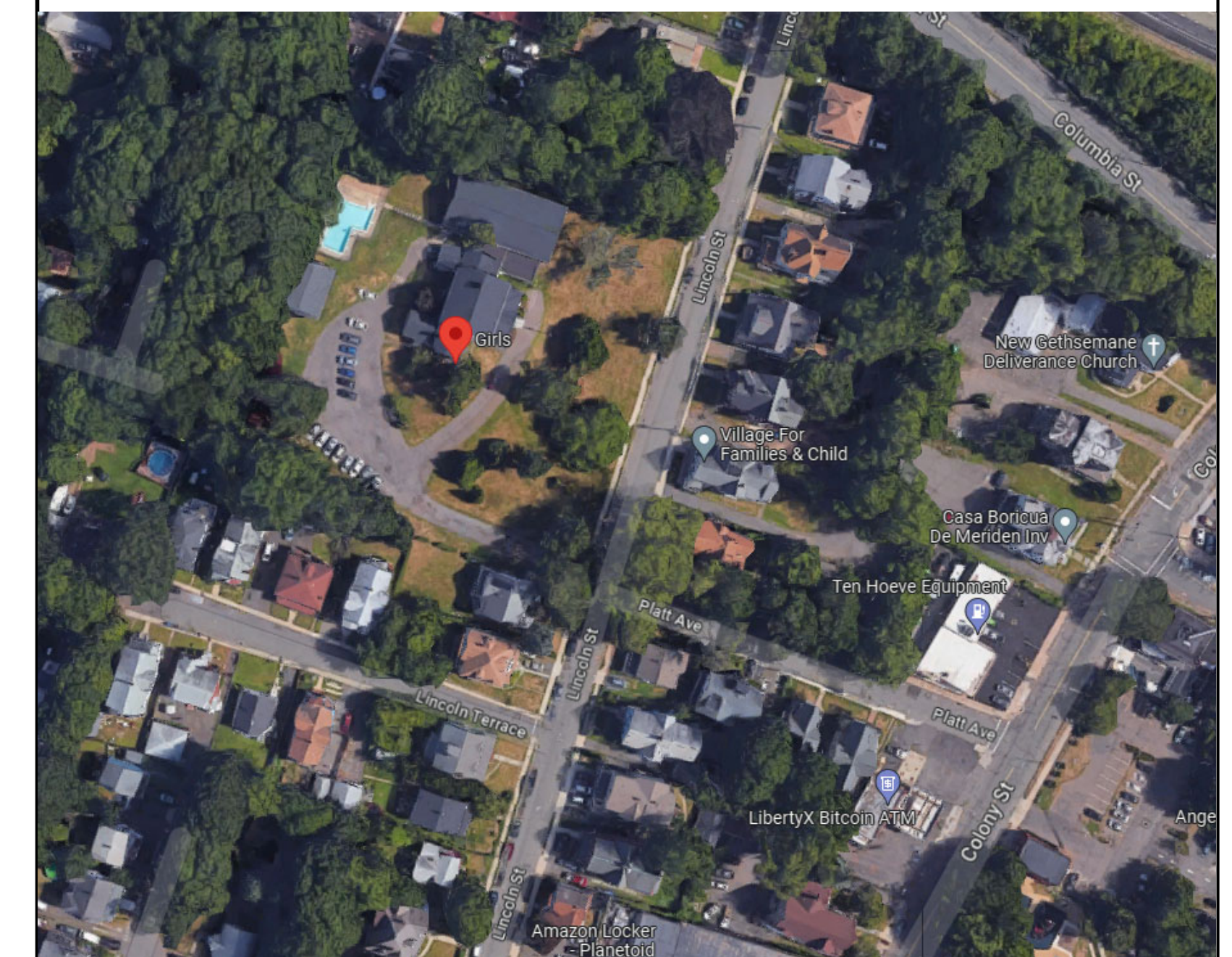


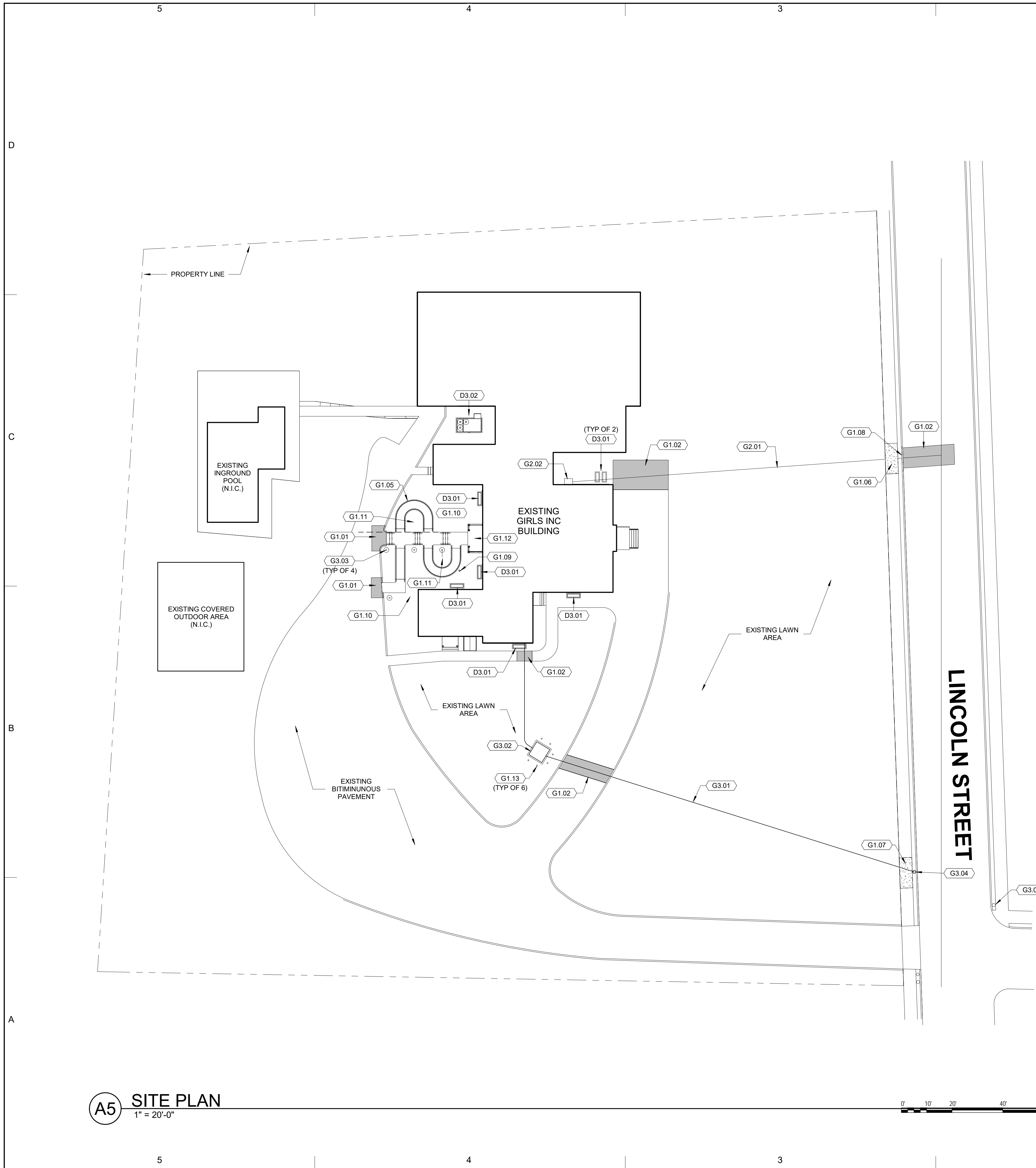
Cleaner environment. Safer workplaces.
DESIGNED BY: JOHN LIBBY
CT ASBESTOS PROJECT DESIGNER LICENSE #19
CT LEAD PLANNER/PROJECT DESIGNER LICENSE #966

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LOCATION MAP





SITE WORK GENERAL NOTES

1. THE FOLLOWING NOTES APPLY TO ALL WORK AND DRAWINGS IN PROJECT SCOPE.
2. VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO START OF WORK. CONTACT "CALL BEFORE YOU DIG", 1-800-922-4455, FOR LOCATION AND MARKING OF ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION.
3. ALL ADJACENT PROPERTY OWNERS AFFECTED BY WORK OF THIS CONTRACT MUST BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
4. CONTACT THE MERIDEN DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION AT (203) 630-4018 A MINIMUM OF 24 HOURS PRIOR TO START OF CONSTRUCTION. FAILURE TO DO SO MAY RESULT IN SHUT DOWN OF CONSTRUCTION ACTIVITIES.
5. PROTECT THE CITY'S INFRASTRUCTURE FOR THE DURATION OF THE PROJECT. REPAIR OF ANY DAMAGE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. OBTAIN APPROVAL FROM THE CITY TREE WARDEN PRIOR TO PERFORMING ANY EXCAVATION WITHIN THE DRIP LINE OF TREES WITHIN THE CITY'S RIGHT OF WAY. CONTACT THE CITY PARKS DEPARTMENT - 460 LIBERTY STREET, TELEPHONE NUMBER (203) 630-4259.
7. NO TREES SHALL BE REMOVED WITHIN THE CITY RIGHT OF WAY (ROW) WITHOUT THE PERMISSION OF THE CITY TREE WARDEN. TREE APPLICATIONS MUST BE FILED WITH THE CITY PARKS DEPARTMENT - 460 LIBERTY STREET, TELEPHONE NUMBER (203) 630-4259. 21 DAYS ADVANCE NOTICE IS REQUIRED.
8. TRAFFIC CONTROL, WHEN REQUIRED, SHALL BE BY UNIFORMED CITY OF MERIDEN POLICE OFFICER(S). CONTACT POLICE SCHEDULING AT 203-630-6305.
9. RESTORE PAVEMENT MARKINGS DISTURBED BY CONSTRUCTION IMMEDIATELY UPON COMPLETION OF THE WORK IN MATERIALS SUITABLE TO DPW - TRAFFIC DIVISION. TEMPORARY TAPE, IF USED, MUST BE IN GOOD CONDITION UNTIL THE PERMANENT MARKINGS ARE PLACED.
10. ALL TEMPORARY TRAFFIC CONTROL DEVICES MUST CONFORM TO THE STANDARDS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AND THE CITY OF MERIDEN.
11. ALL WORK ON CITY PROPERTY SHALL CONFORM TO THE CITY STANDARD SPECIFICATIONS AND DETAILS. CONDOT FORM 816 SPECIFICATIONS AND DETAILS SHALL BE USED IF CITY DETAILS AND SPECIFICATIONS ARE NOT AVAILABLE. THIS INCLUDES, BUT IS NOT LIMITED TO, TRENCH BACKFILL MATERIALS; PAVEMENT REPAIR; CURB REPLACEMENTS; AND CITY SIDEWALKS.
12. EXISTING CURBING, SIDEWALKS, PAVEMENT AND RELATED INFRASTRUCTURE SHALL BE REPAIRED OR REPLACED, IN-KIND, AT NO COST TO THE CITY SHOULD THEY BE DAMAGED DURING CONSTRUCTION.
13. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCHES PENDING PERMANENT PAVEMENT REPAIR. FAILURE TO DO SO MAY RESULT IN FORFEITURE OF RIGHT-OF-WAY LICENSE FEE.
14. PAVEMENT REPAIR IS CONSIDERED TEMPORARY UNTIL A PERMANENT PATCH IS INSTALLED PER CITY OF MERIDEN ENGINEERING STANDARD DETAILS. ONE WINTER IS REQUIRED BEFORE THE PERMANENT PATCH CAN BE INSTALLED.
15. THE FINAL AREA OF ASPHALT REPAIR AND/OR REPLACEMENT MUST BE COORDINATED AND APPROVED BY DPW.
16. PRIOR TO PLACEMENT OF CONCRETE, THE CONTRACTOR MUST CONTACT THE ENGINEERING CONSTRUCTION SURVEY TECHNICIAN AT (203) 537-3202 OR (203) 630-4018 FOR FORM INSPECTION.
17. PROVIDE EROSION AND SEDIMENT CONTROLS FOR ALL EXCAVATIONS. CONTROLS SHALL COMPLY WITH THE LATEST SEDIMENT AND EROSION CONTROL MANUAL PUBLISHED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION

GENERAL NOTES

1. The intent of the Contract Documents is to include all items necessary for the proper execution and completion of all Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all. Where a conflict within the Contract Documents exists, the Contractor shall provide the better quality or greater quantity of work in accordance with the Architect's resolution without any increase in the Contract sum. Organization of the Specifications into divisions, sections and articles, and arrangement of sheets shall not control the Contractor in dividing the work among subcontractors, or in establishing the extent of Work to be performed by any trade.
2. REFERENCE KEY NOTES and SHEET KEY NOTES are intended to indicate and clarify the extent and requirements of the Work; they do not indicate every location or occurrence of required Work. The lack of a key note to an individual item of Work will not relieve the Contractor of responsibility to execute that Work as part of the Contract when the requirement for that Work can be logically inferred by other parts of the Contract Documents
3. Do not scale drawings, except for estimation and approximation purposes.
4. This is an existing building; all conditions and critical dimensions must be field verified.

KEYNOTES

- D3.01 PAD MOUNTED CONDENSING UNIT. SEE MECHANICAL DWGS
- D3.02 PAD MOUNTED AIR HANDLING UNIT. SEE MECHANICAL DWGS
- G1.01 SHADED AREA: PATCH BITUMINOUS PAVEMENT FLUSH WITH EXISTING BITUMINOUS & EDGE OF CONC WALK. PATCH BITUMINOUS CURBING FLUSH W/ ADJACENT CURBING
- G1.02 SHADED AREA: PATCH BITUMINOUS PAVEMENT FLUSH WITH EXISTING PAVEMENT. COORDINATE WITH UNDERGROUND WORK SHOWN ON SITE UTILITIES PLAN. INSTALL PAVEMENT @ LINCOLN STREET IN ACCORDANCE WITH CITY OF MERIDEN ENGINEERING DEPARTMENT STANDARDS
- G1.05 CONCRETE RAMPS/WALK & STAIRS. SEE ENLARGED PLAN & DETAILS ON DWG C502
- G1.06 REPLACE PORTION OF CONCRETE WALK REMOVED TO INSTALL GAS SERVICE IN ACCORDANCE WITH CITY OF MERIDEN ENGINEERING DEPARTMENT STANDARDS
- G1.07 REPLACE PORTION OF CONCRETE WALK REMOVED TO INSTALL ELECTRICAL SERVICE IN ACCORDANCE WITH CITY OF MERIDEN ENGINEERING DEPARTMENT STANDARDS
- G1.08 REPLACE CURBING REMOVED FOR INSTALLATION OF GAS SERVICE IN ACCORDANCE WITH CITY OF MERIDEN ENGINEERING DEPARTMENT STANDARDS
- G1.09 EXISTING PVC CLEANOUT. EXERCISE CARE NOT TO DISTURB/DAMAGE DURING EXCAVATION FOR INSTALLATION OF CONCRETE RAMP
- G1.10 REGRADE & RESEED LAWN AREAS AFFECTED BY INSTALLATION OF CONCRETE RAMPS, STAIRS & LANDINGS
- G1.11 PROVIDE 8" OF CRUSHED STONE & FILTER FABRIC AT AREA BORDERED BY CONCRETE RAMP, STAIR & LANDINGS
- G1.12 EXTERIOR COMPOSITE PORCH DECK ON TREATED WD FRAMING. SEE DETAILS
- G1.13 6" DIA SCHEDULE 80 PIPE BOLLARD
- G2.01 UNDERGROUND GAS SERVICE FROM STREET BY UTILITY COMPANY. SEE SITE UTILITY PLAN. ROUTE LATERAL TO AVOID EXISTING TREES & PLANTINGS. FINAL ROUTING TO BE FIELD VERIFIED PRIOR TO START OF EXCAVATION. EXCAVATE, BACKFILL & RESEED PER DETAILS & SPECIFICATIONS
- G2.02 GAS METER BY UTILITY COMPANY. SEE SITE UTILITY PLAN
- G3.01 UNDERGROUND ELECTRICAL SERVICE LATERAL FROM EXISTING POLE AT STREET. SEE SITE UTILITY PLAN. ROUTE LATERAL TO AVOID EXISTING TREES & PLANTINGS. FINAL ROUTING TO BE FIELD VERIFIED PRIOR TO START OF EXCAVATION. EXCAVATE BACKFILL & RESEED PER DETAILS & SPECIFICATIONS
- G3.02 PAD MOUNTED ELECTRICAL TRANSFORMER. SEE SITE UTILITY PLAN
- G3.03 LIGHT POLE (TYP OF 4). SEE ELECTRICAL DWGS. FINAL LOCATIONS TO BE DETERMINED BY ARCHITECT IN FIELD
- G3.04 EXISTING POLE. SEE SITE UTILITY PLAN. FIELD VERIFY EXACT LOCATION

PROFESSIONAL SEAL

OWNER

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 130 Lincoln Street Meriden, CT 06451
 203 235 7146 www.girlsinmeriden.org

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 CT LEAD PLANNER/PROJECT DESIGNER LICENSE #988

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MARK	DATE	DESCRIPTION
PROJECT NO:	CWA PROJECT NO.: 2313	
DRAWN BY:	CHK'D BY:	
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SHEET TITLE	SITE PLAN	
C101		

A5 SITE PLAN
 1" = 20'-0"



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MARCH 12, 2024

MARK DATE DESCRIPTION

PROJECT NO: CWA PROJECT NO.: 2313

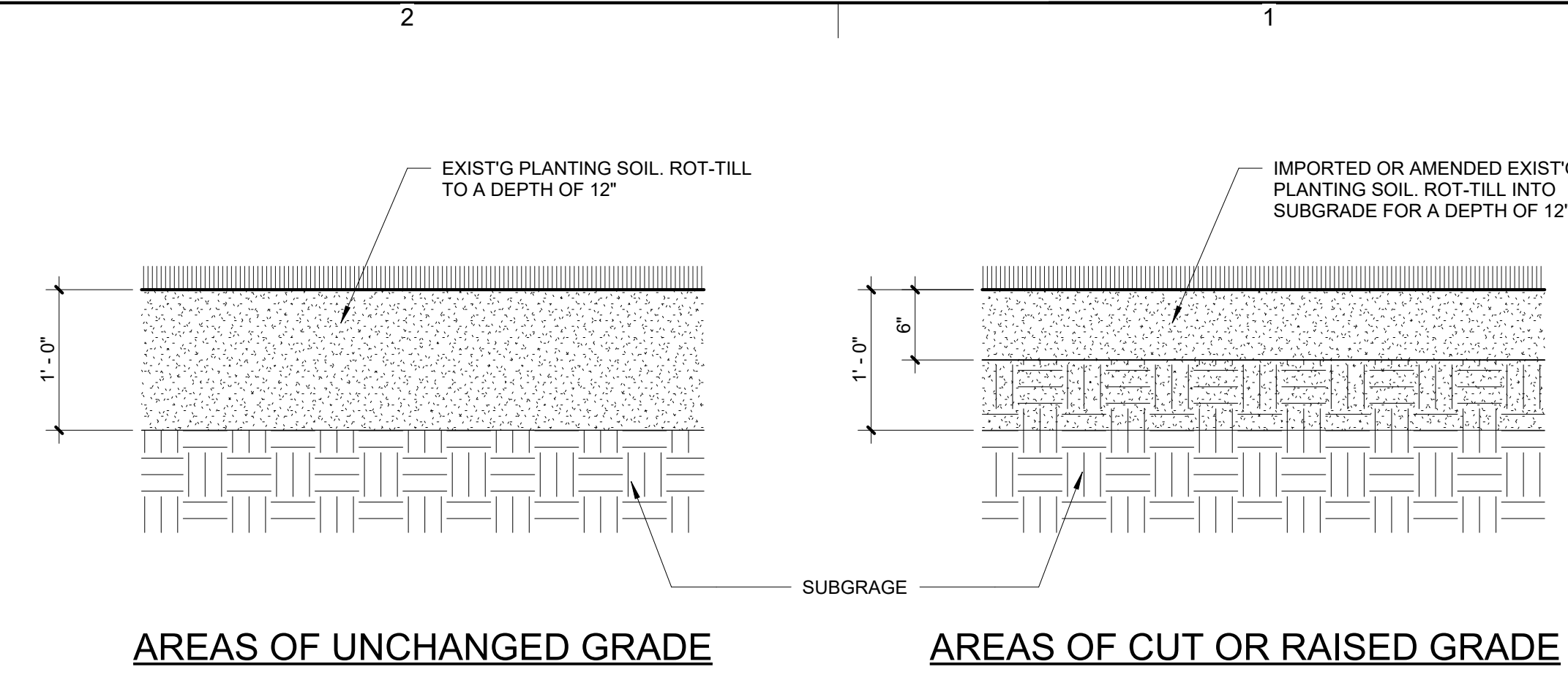
DRAWN BY:

CHK'D BY: COPYRIGHT

SHEET TITLE

SITE DETAILS

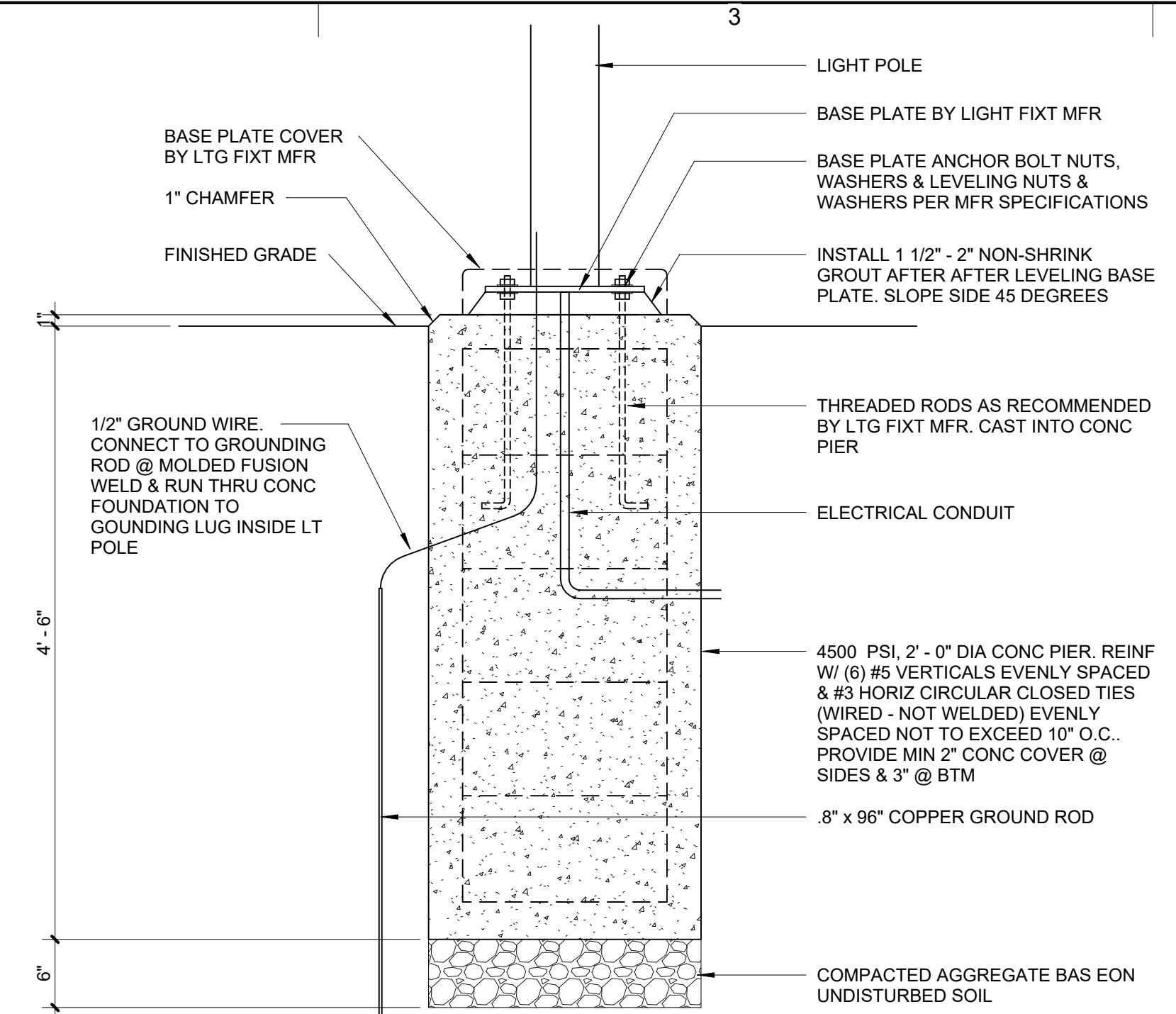
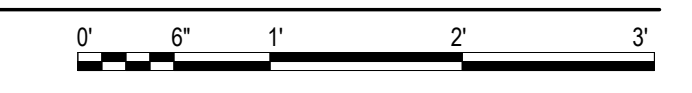
C501



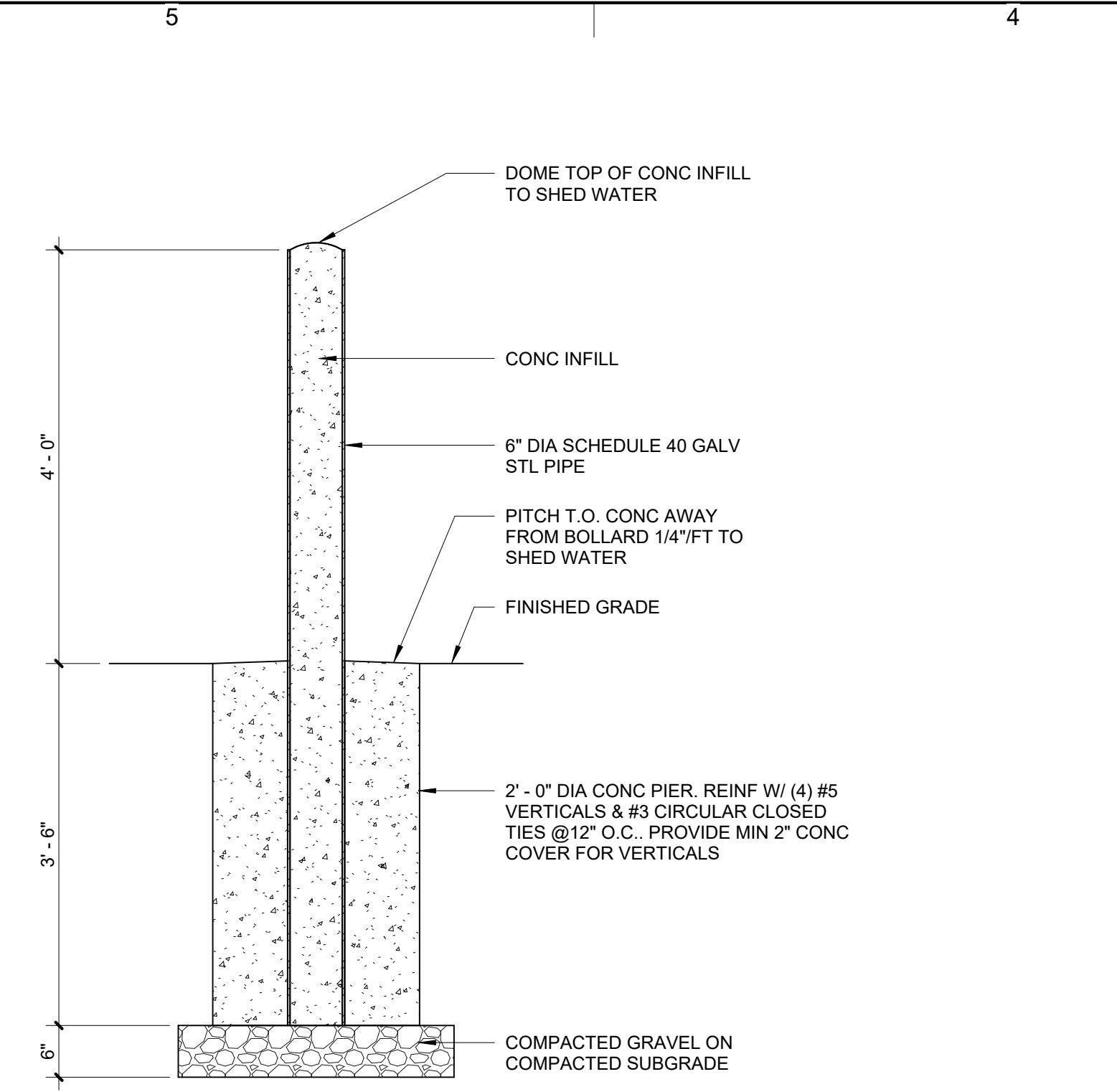
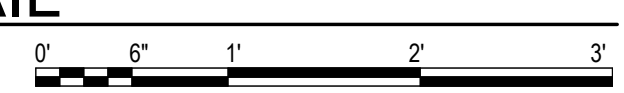
AREAS OF UNCHANGED GRADE AREAS OF CUT OR RAISED GRADE

- NOTES:
1. PLANTING SOIL STRIPPED FROM SITE CAN BE REUSED UPON APPROVAL BY ARCHITECT.
 2. LIGHTLY COMPACT ALL PLACED PLANTING SOILS. RAISE GRADES TO ALLOW FOR FUTURE SETTLEMENT.
 3. ALL SEEDED GRASS AREAS AFFECTED BY WORK OF THE CONTRACT SHALL BE TOPSOILED, FINE GRADE AND RAKED OF ALL DEBRIS. NO STONES, WOOD CHIPS OR DEBRIS LARGER THAN 1/2" WILL BE PERMITTED.
 4. PROVIDE A SEED MIX(ES) TO MATCH EXISTING LAWN AREAS.
 5. SEED MIX(ES) SHALL BE MULCHED WITH SALTB HYA OR UNROTTED SMALL GRAIN STRAW AT A RATE OF 2 TON/AC OR 90 LBS/1,000 SF.
 6. SEEDING DATES SHALL BE AS FOLLOWS:
 - SPRING: APRIL 1 - MAY 31
 - FALL: AUGUST 16 - OCTOBER 31
 7. IRRIGATE SEEDED AREAS UNTIL AN ACCEPTABLE STAND OF COVER, AS DETERMINED BY ARCHITECT, IS ESTABLISHED.

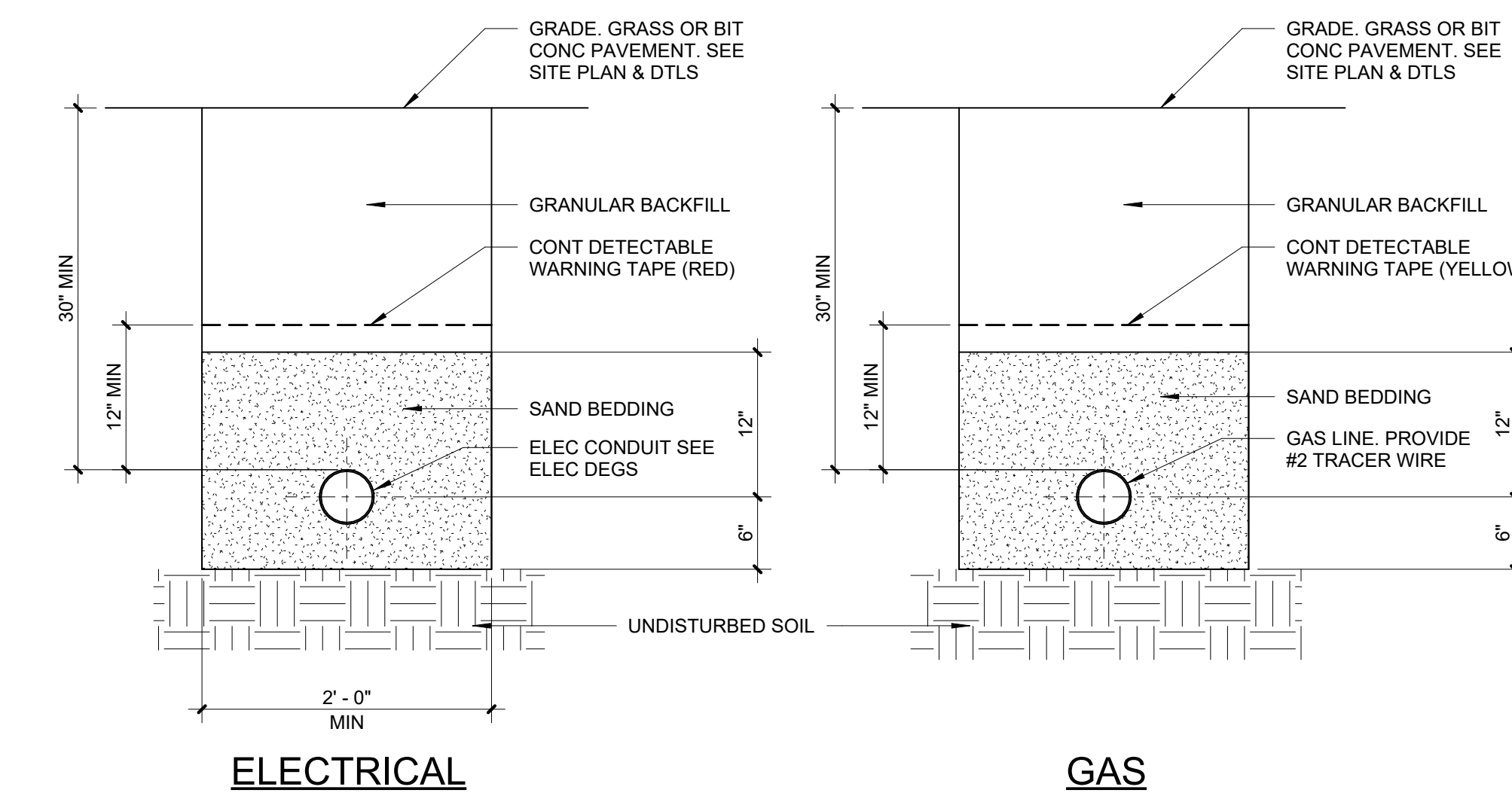
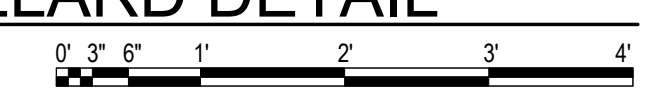
D2 TYPICAL PLANTING SOIL DETAILS 1" = 1'-0"



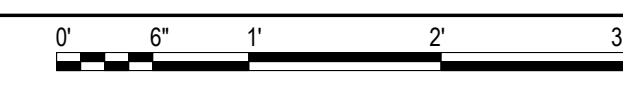
C3 LIGHT POLE BASE DETAIL 1" = 1'-0"



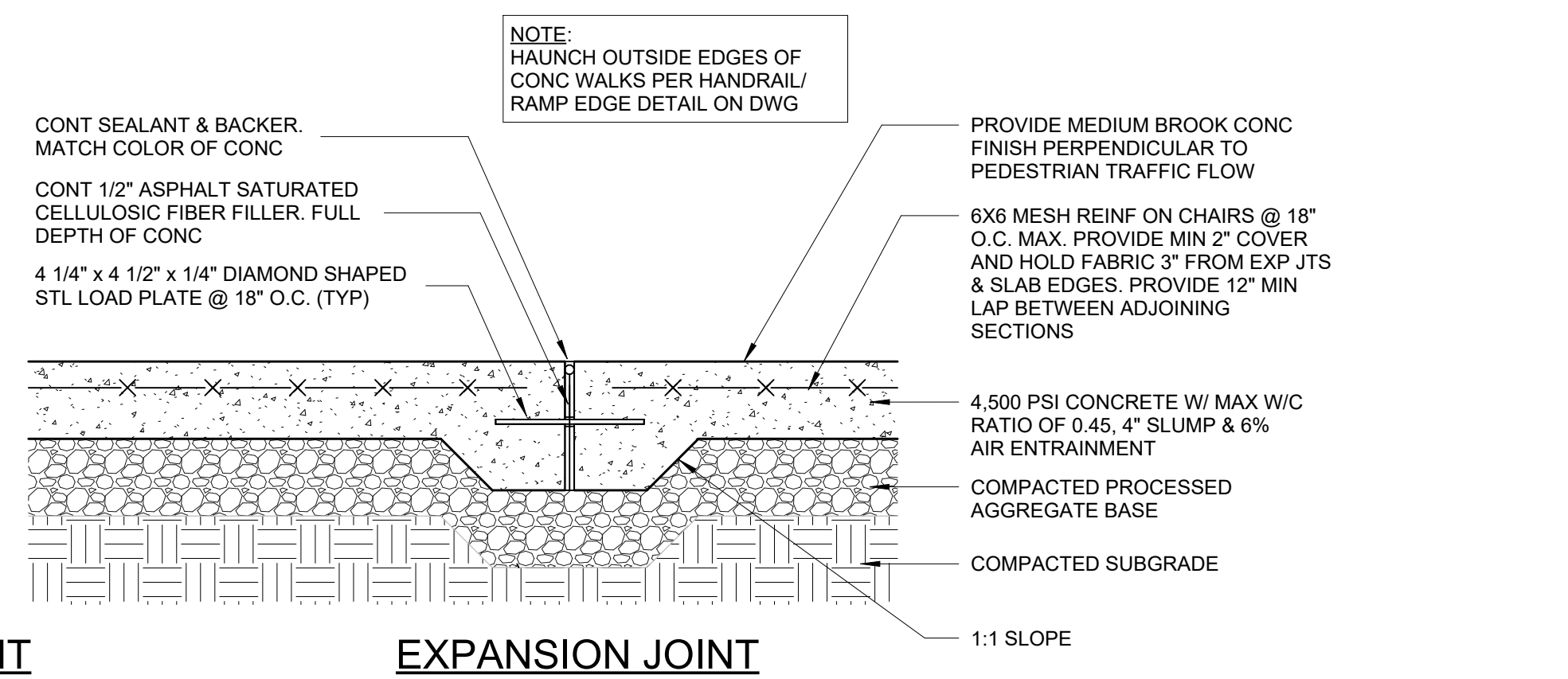
C5 STEEL BOLLARD DETAIL 3/4" = 1'-0"



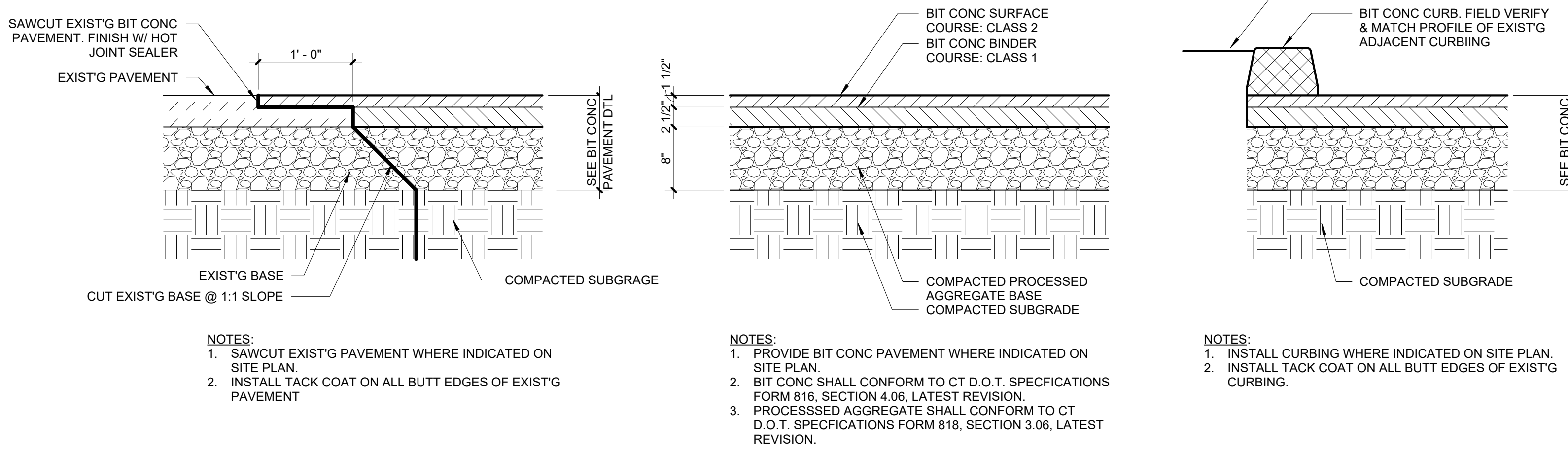
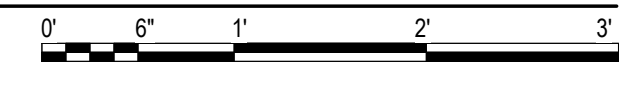
B3 GAS & ELECTRICAL TRENCH DETAILS 1" = 1'-0"



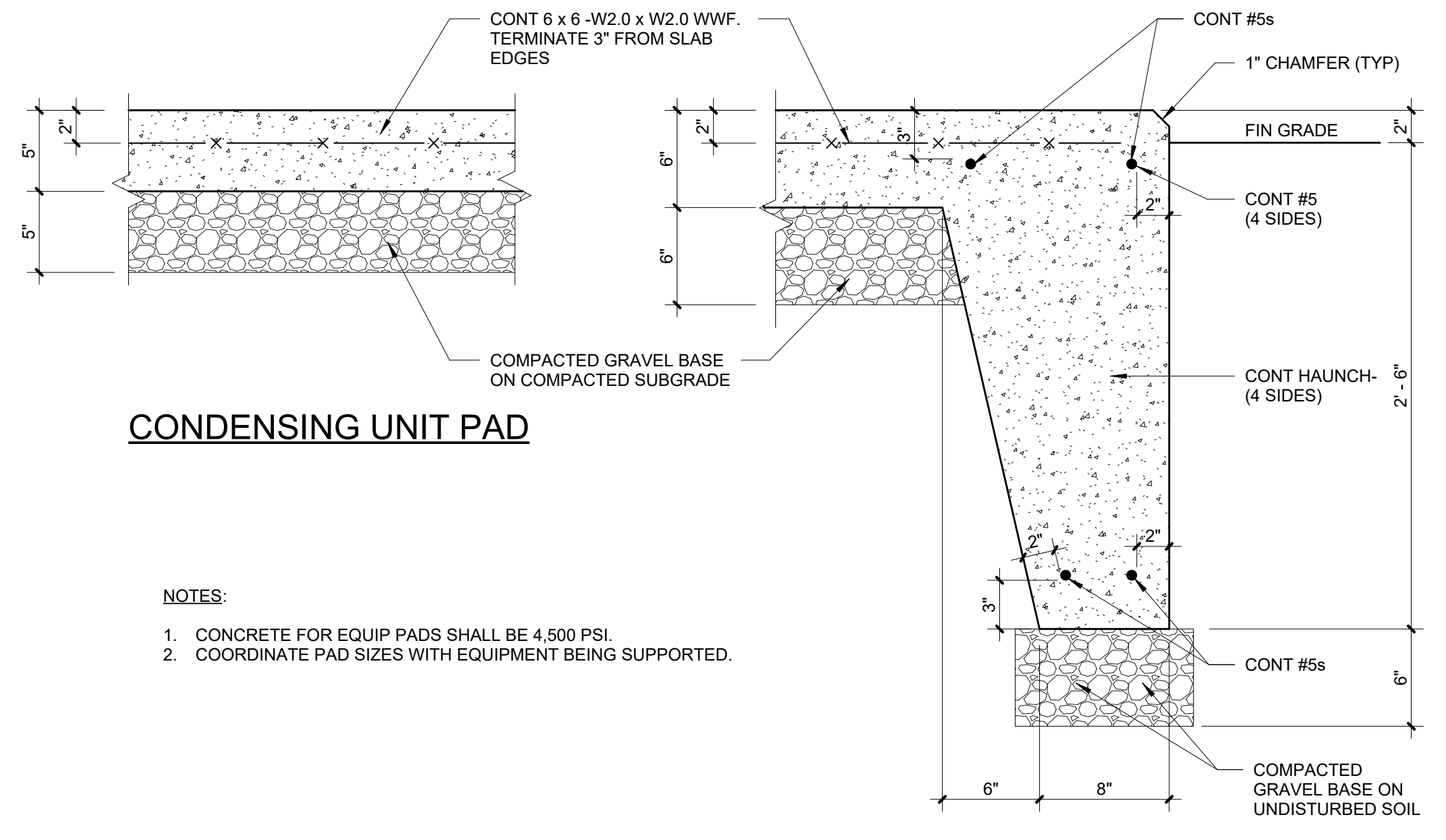
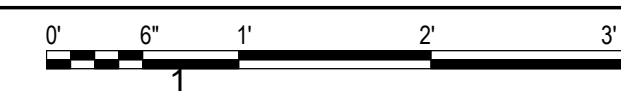
- NOTES:
1. TRENCHES OVER 5 FT DEEP IN STABLE SOIL SHALL BE REINFORCED BY OSHA METHODS.
 2. BOTTOMS OF TRENCHES SHALL BE COMPACTED PRIOR TO PLACEMENT OF SAND BEDDING.
 3. IF SOIL BELOW TRENCHES IS FOUND TO BE UNSUITABLE, EXCAVATE TO REQUIRED DEPTH & PROVIDE SUITABLE MATERIAL APPROVED BY UTILITY COMPANIES.
 4. CONTRACTOR SHALL PERFORM EXCAVATION & PROVIDE SAND BEDDING & BACKFILL.
 5. ENCASE PRIMARY ELECTRICAL CONDUIT CROSSING PAVED VEHICULAR PATHS W/ MINIMUM 2" CONCRETE - ENTIRE LENGTH OF PAVEMENT
 6. GAS COMPANY SHALL PROVIDE GAS PIPING INSTALLATION & SERVICE. REQUIREMENTS MAY VARY FROM THOSE SHOWN.



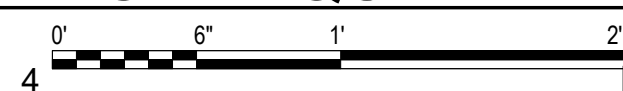
B5 TYP CONCRETE SIDEWALK DETAILS AT RAMPS & STAIRS 1" = 1'-0"

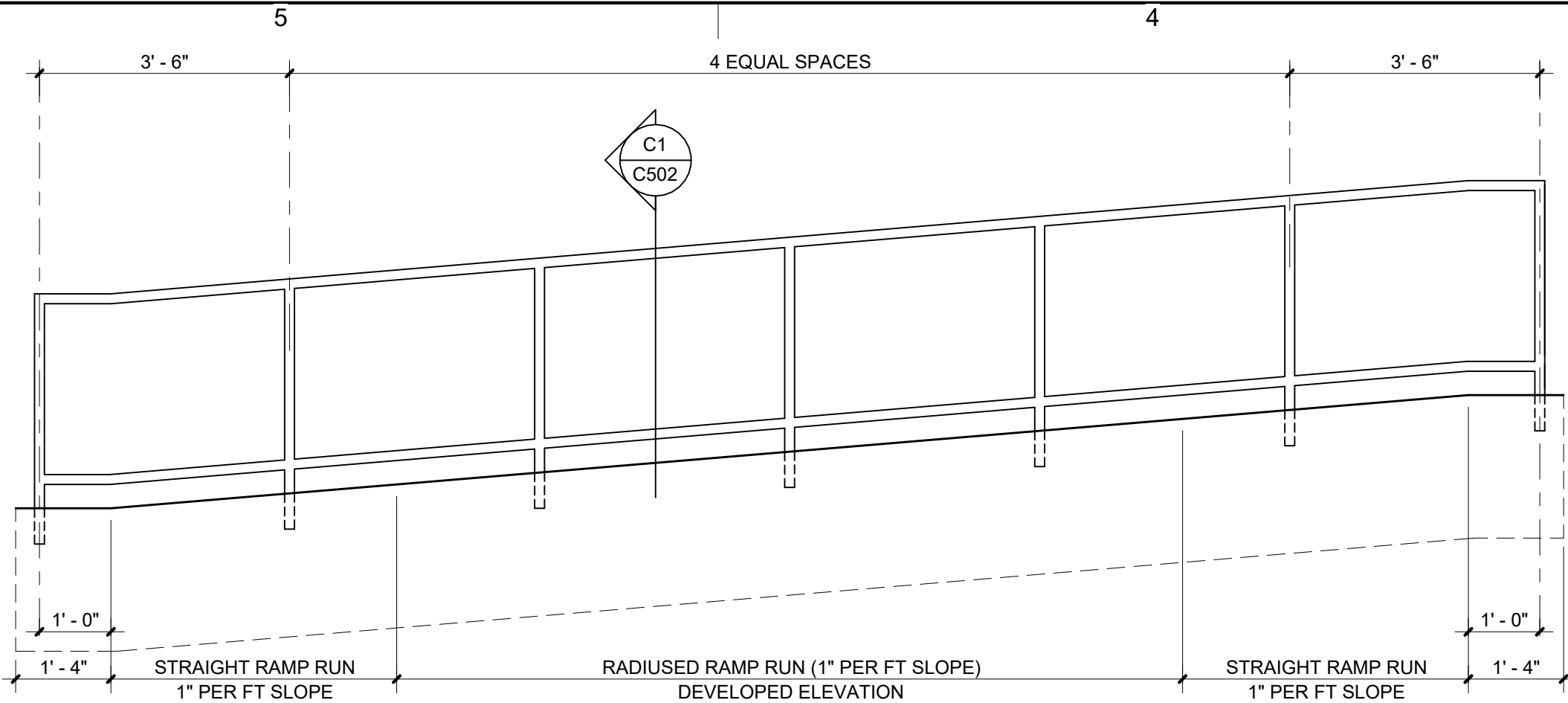


A3 TYPICAL BITUMINOUS CONCRETE PAVEMENT DETAILS 1" = 1'-0"

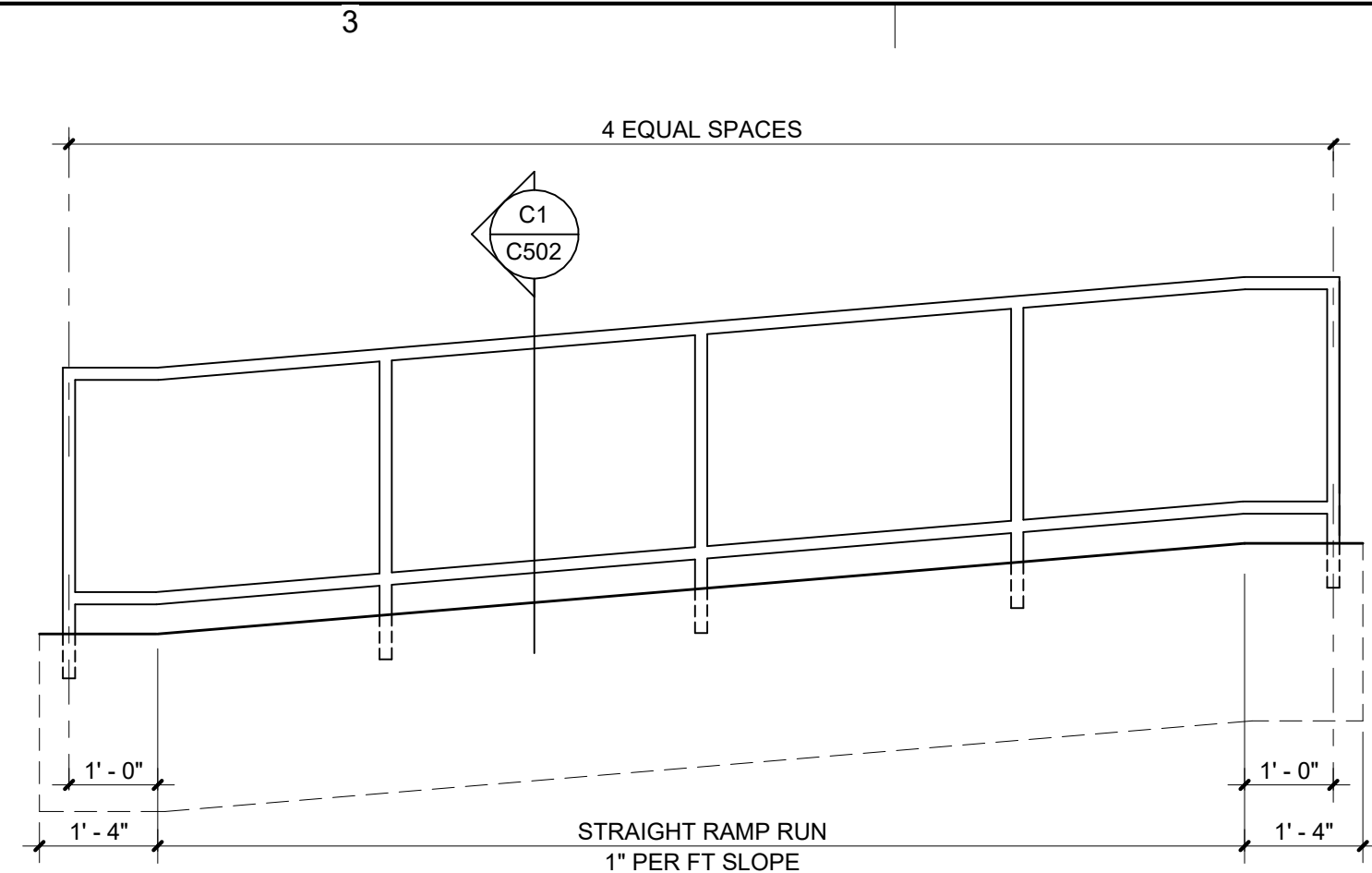


A5 CONCRETE PADS FOR OUTDOOR MECHANICAL EQUIPMENT 1 1/2" = 1'-0"

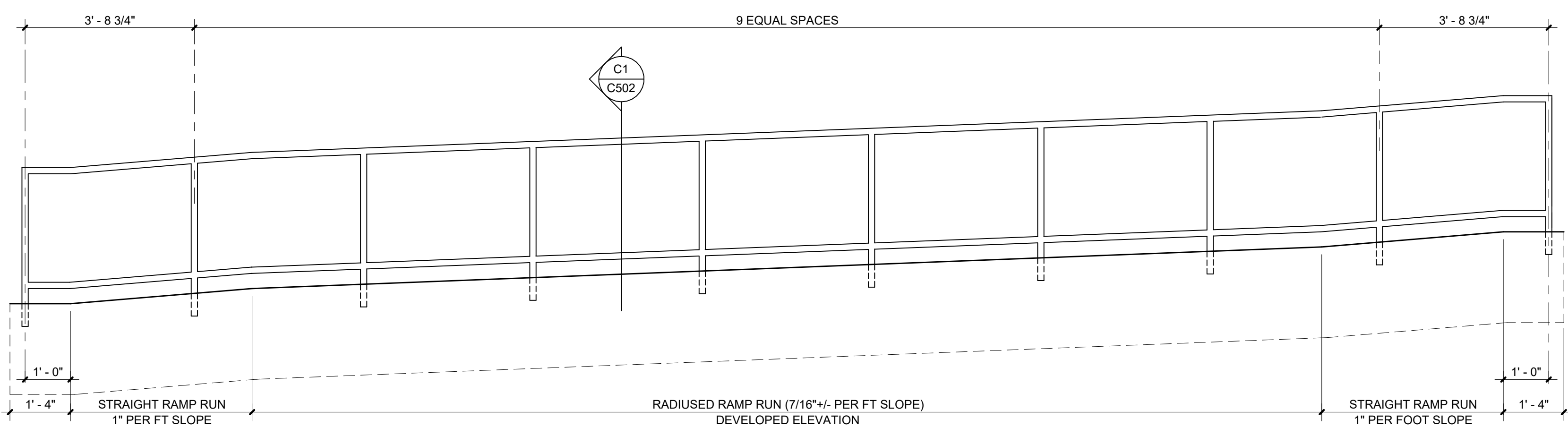




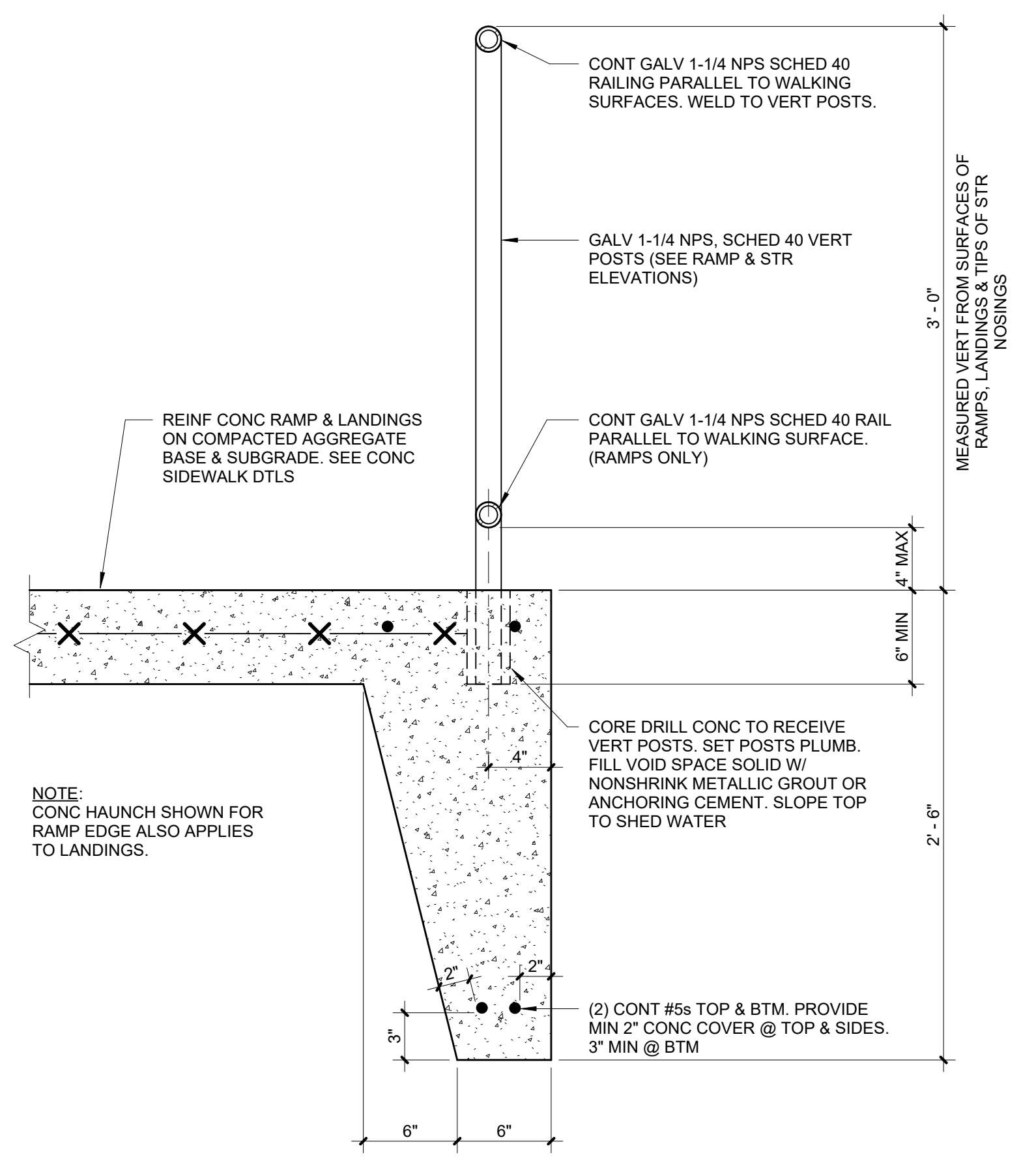
D5 RAILING ELEVATION - CURVED RAMP - INNER EDGE
1/2" = 1'-0"



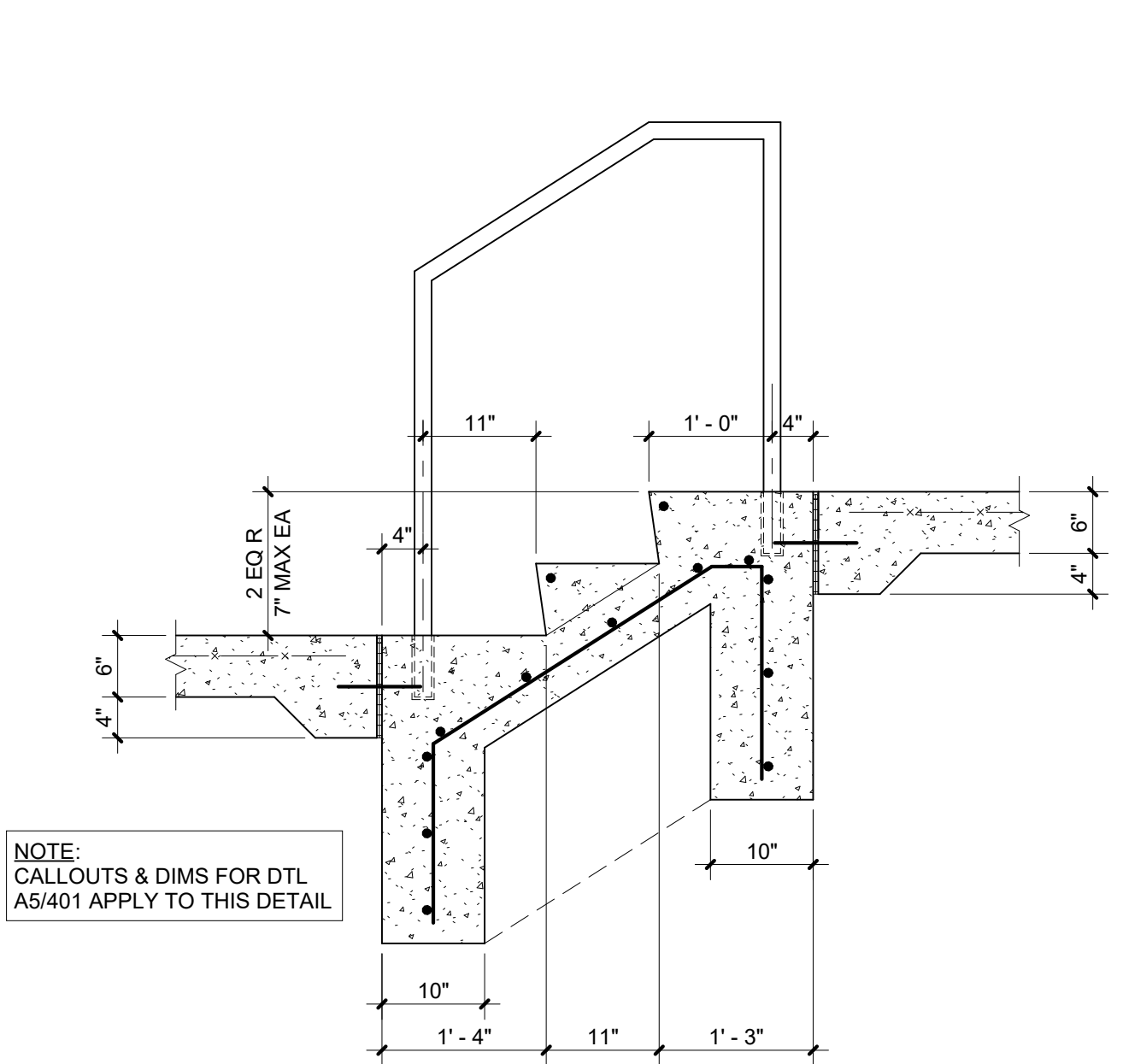
D4 RAILING ELEVATION - STRAIGHT RAMP
1/2" = 1'-0"



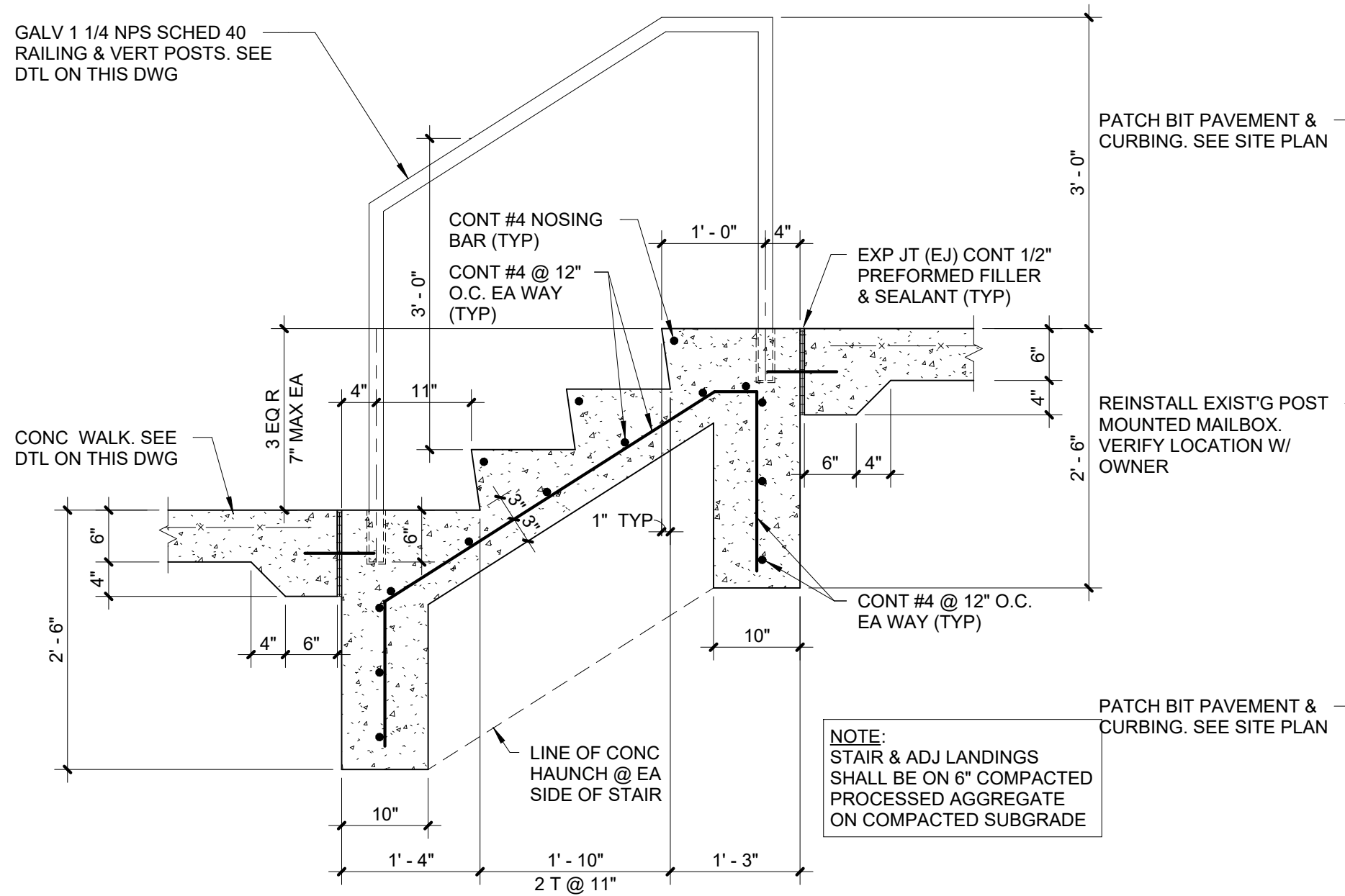
C5 RAILING ELEVATION - CURVED RAMP - OUTER EDGE
1/2" = 1'-0"



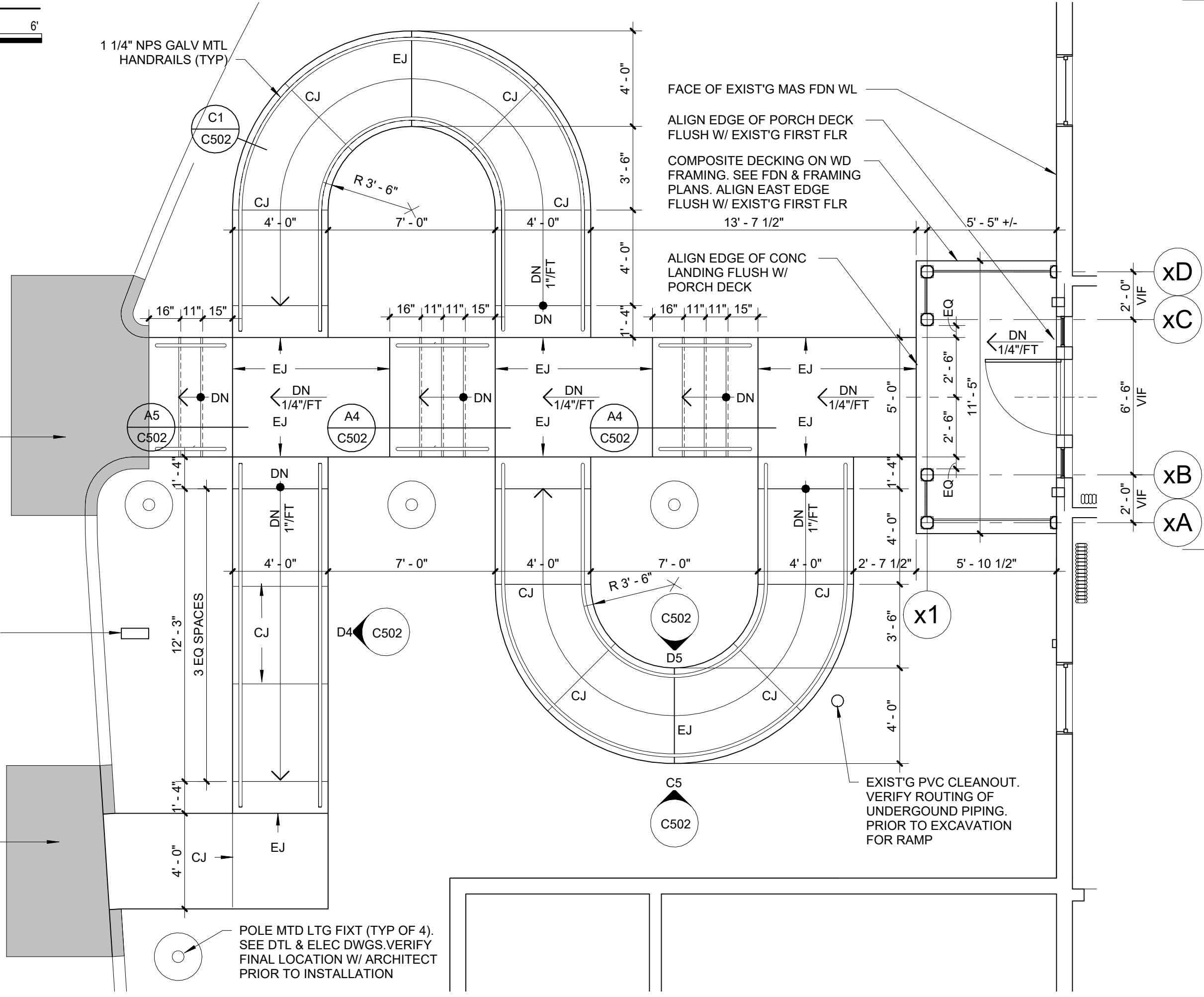
C1 HAND RAIL/RAMP EDGE DETAIL
1 1/2" = 1'-0"



A5 CONC STAIR SECTION - 2 RISERS
3/4" = 1'-0"



A4 CONC STAIR SECTION - 3 RISERS
3/4" = 1'-0"



A2 ENLARGED EXTERIOR CONCRETE RAMP & STAIR PLAN
1/4" = 1'-0"

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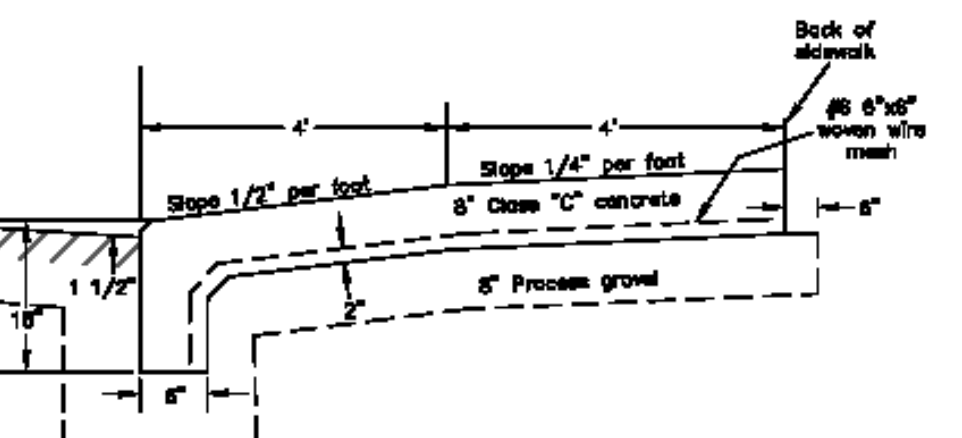
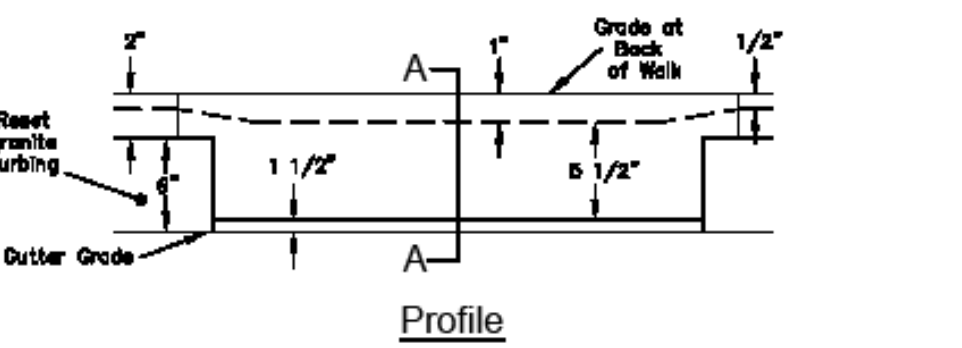
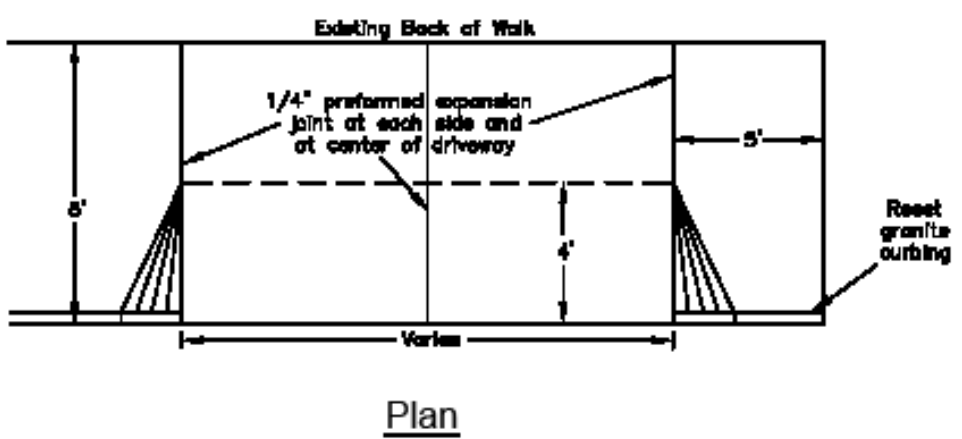
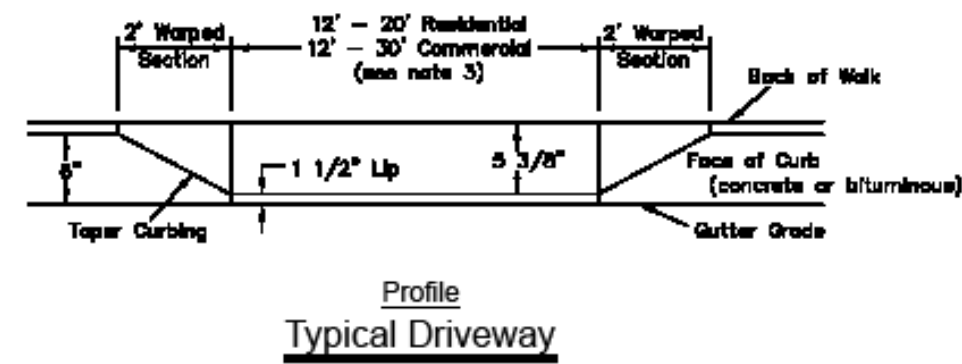
SHEET TITLE

ENLARGED EXTERIOR CONCRETE RAMP PLAN & DETAILS

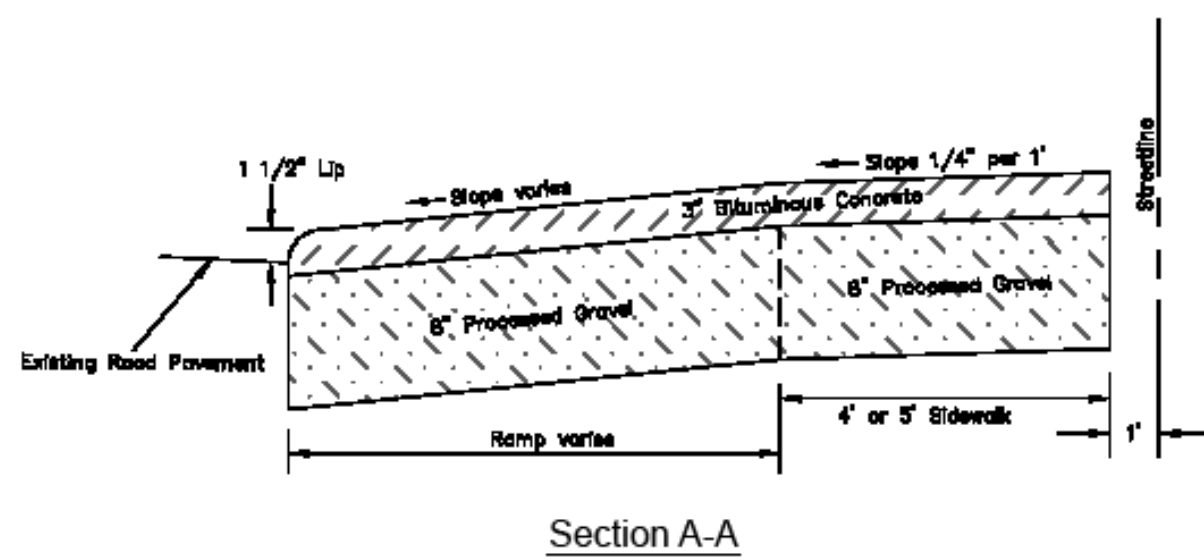
C502

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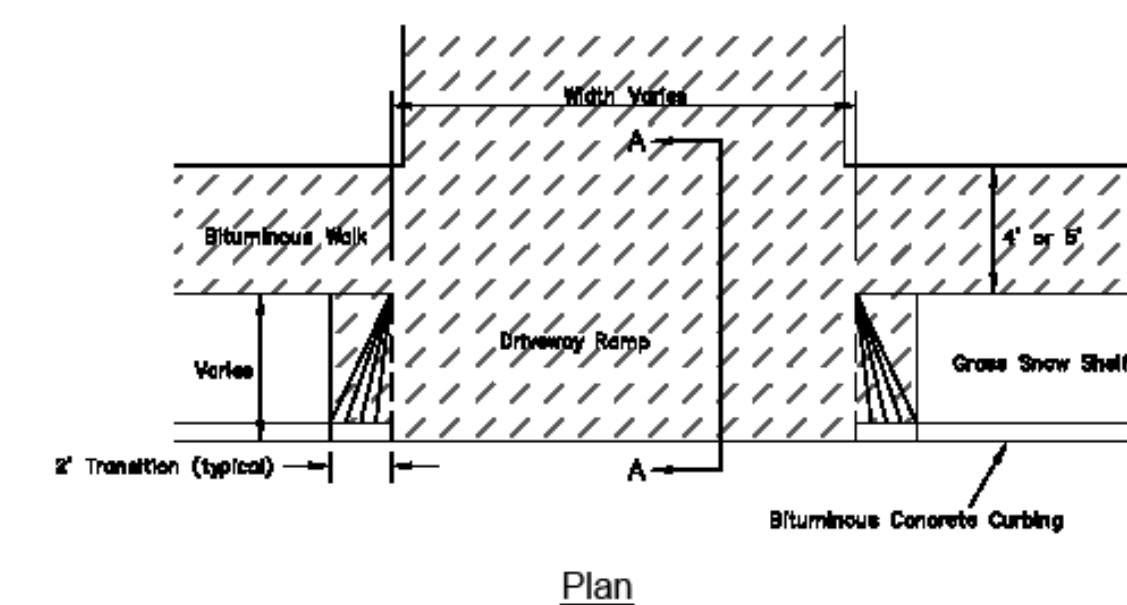
DRIVEWAYS



Residential Concrete Apron Replacement
(N.T.S.)



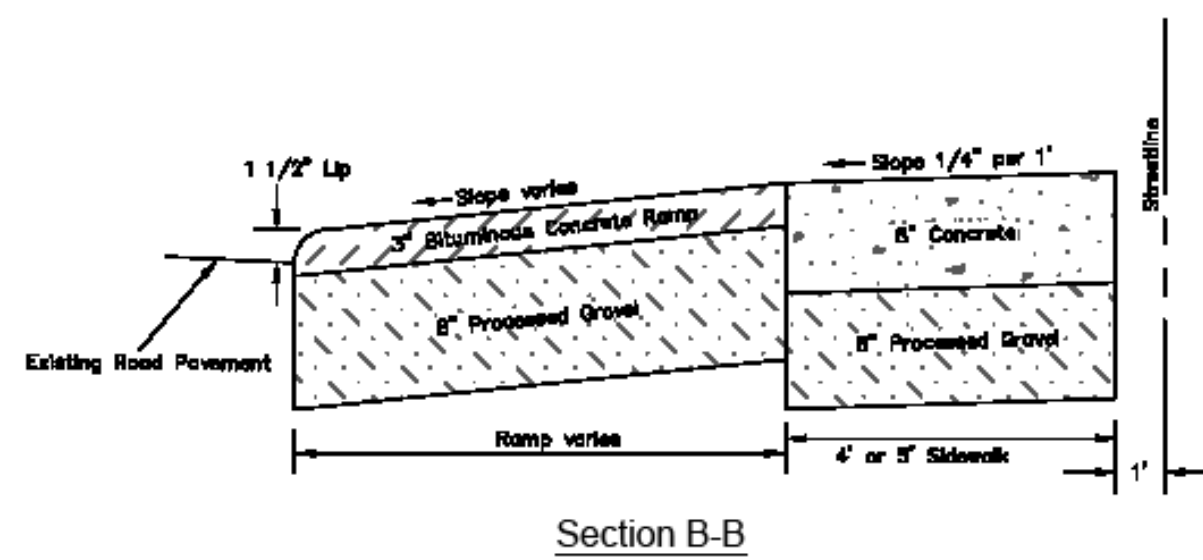
Section A-A



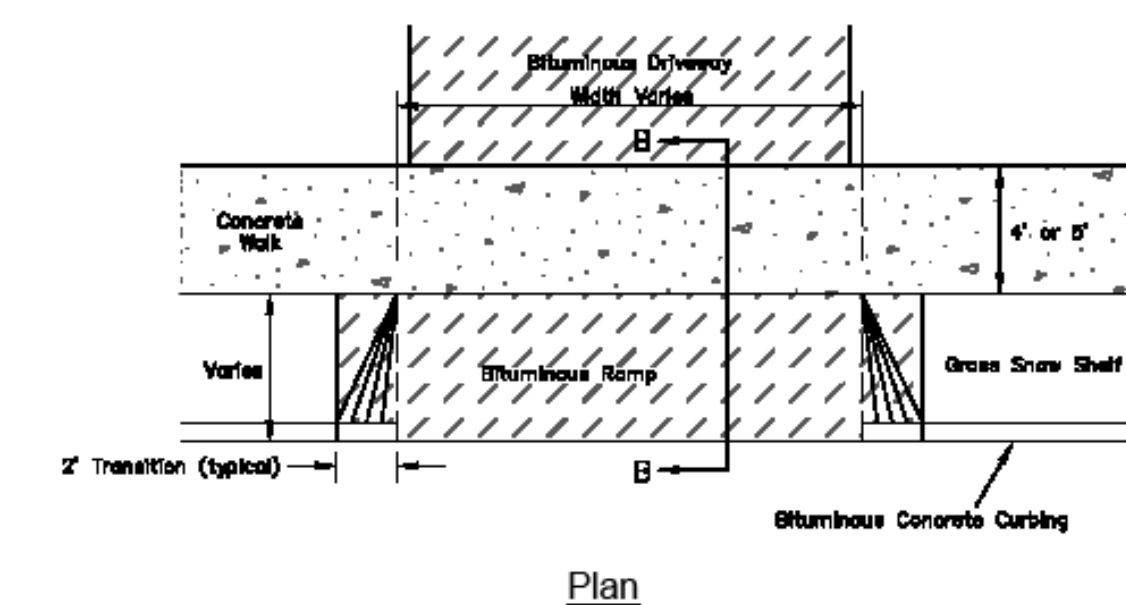
Plan

Residential Bituminous Driveway and Sidewalk
(N.T.S.)

NOTE: Only allowed in outer district and with approval of Planning Commission



Section B-B



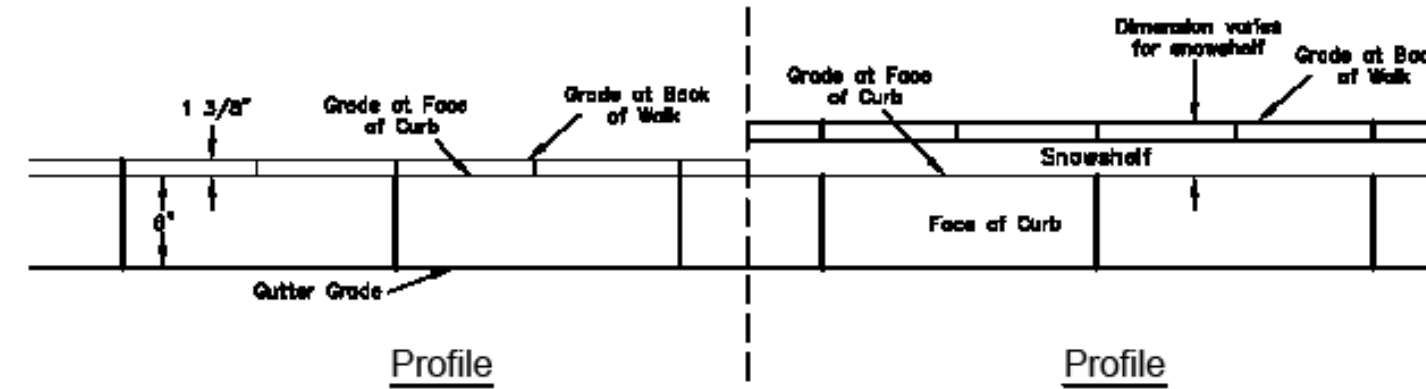
Plan

Residential Concrete Sidewalk with Bituminous Apron
(N.T.S.)

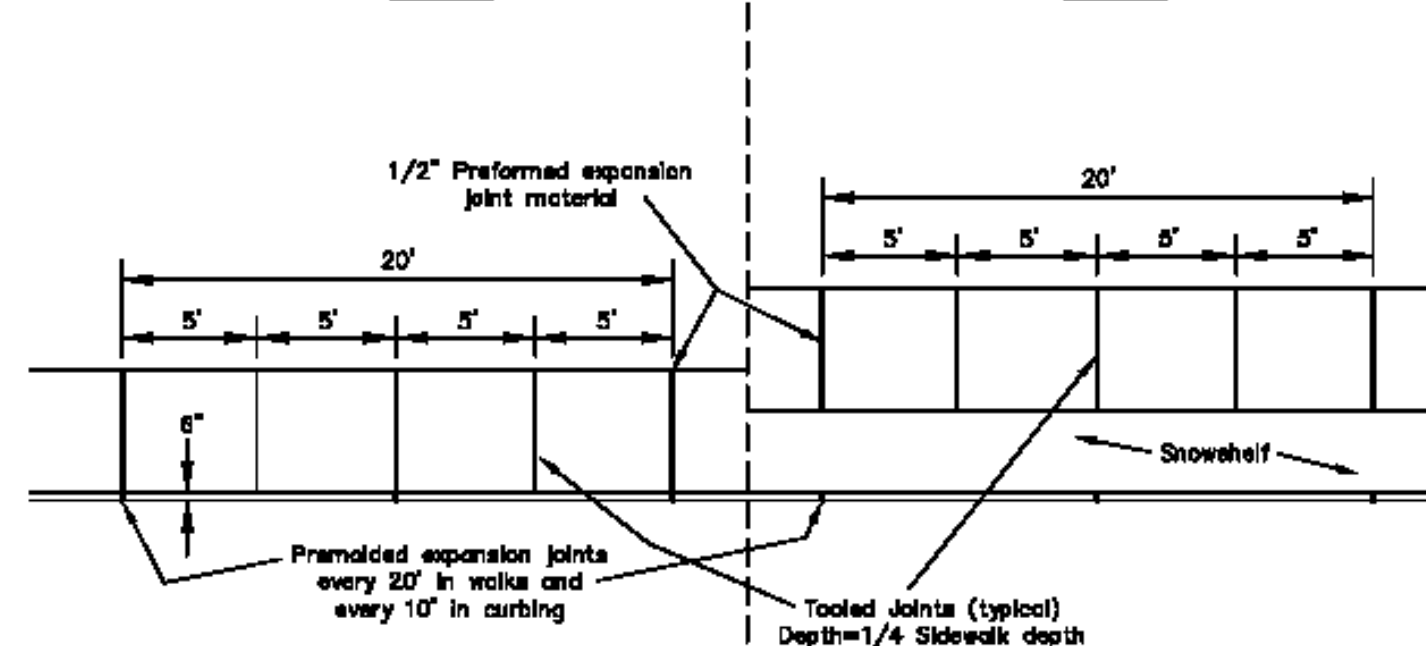
NOTE: Only allowed upon approval of the City of Meriden Engineering Department

SIDEWALK AND CURBING

- NOTES:**
- Width to accommodate mechanical composition as approved by Engineering Department.
 - Buffer strips to be a minimum of 3' wide for new trees. Species to be approved by City Planner.
 - Driveway widths will be based upon field conditions and Planning Department approval. Maximum widths will be 20' for residential or 30' for commercial property unless otherwise approved by the Planning Department.
 - Entire sidewalk sections may need to be lowered to achieve slope or as instructed by Engineering Department.
 - Band breaker must be placed between concrete and all metal fixtures within sidewalk area.
 - Refer to Connecticut DOT sidewalk guidelines for accessible ramp details.



Profile

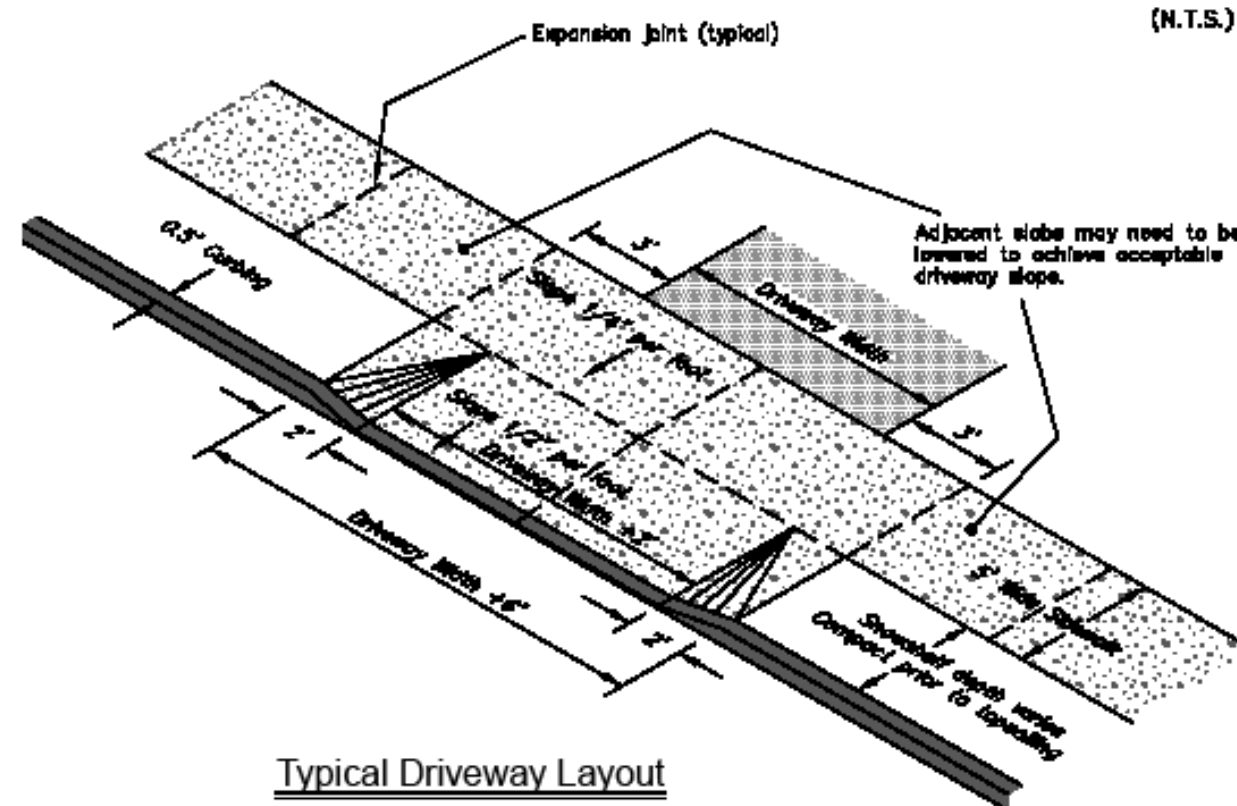


Monolithic Sidewalk Plan

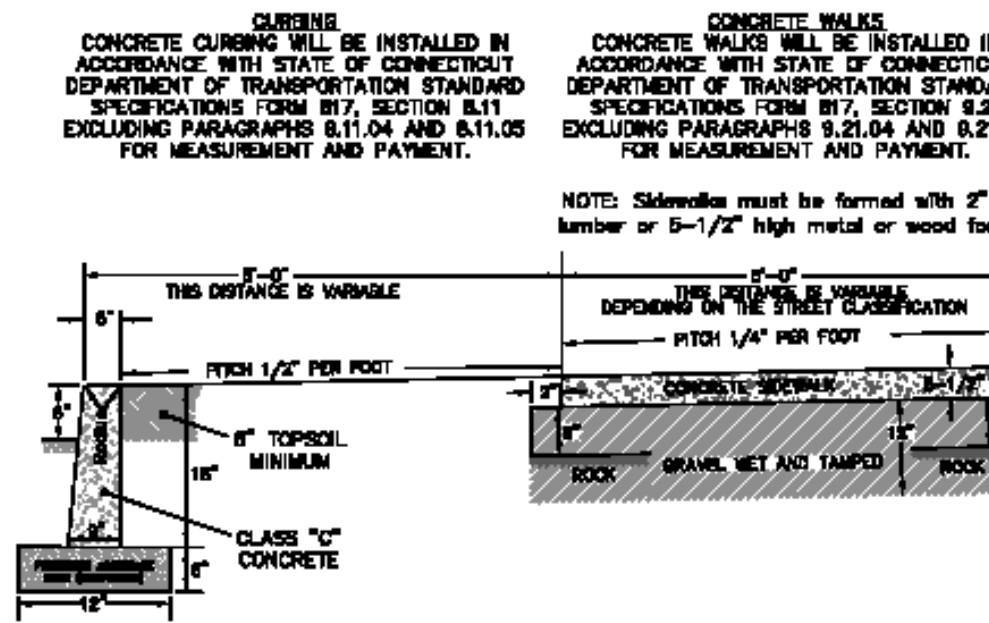
CONCRETE SHALL BE CLASS "C" AND 3300 PSI OR BETTER (N.T.S.)

Concrete Curbing and Walk

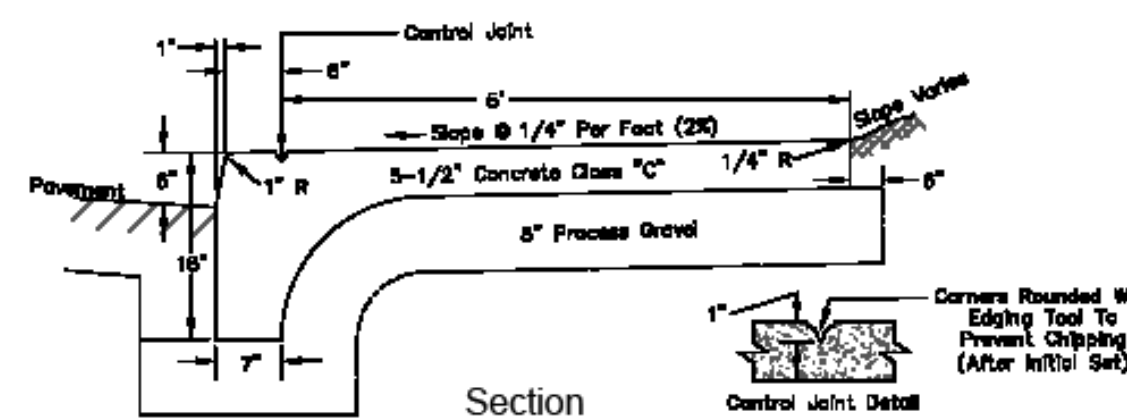
(N.T.S.)



Typical Driveway Layout



Typical Curb & Sidewalk

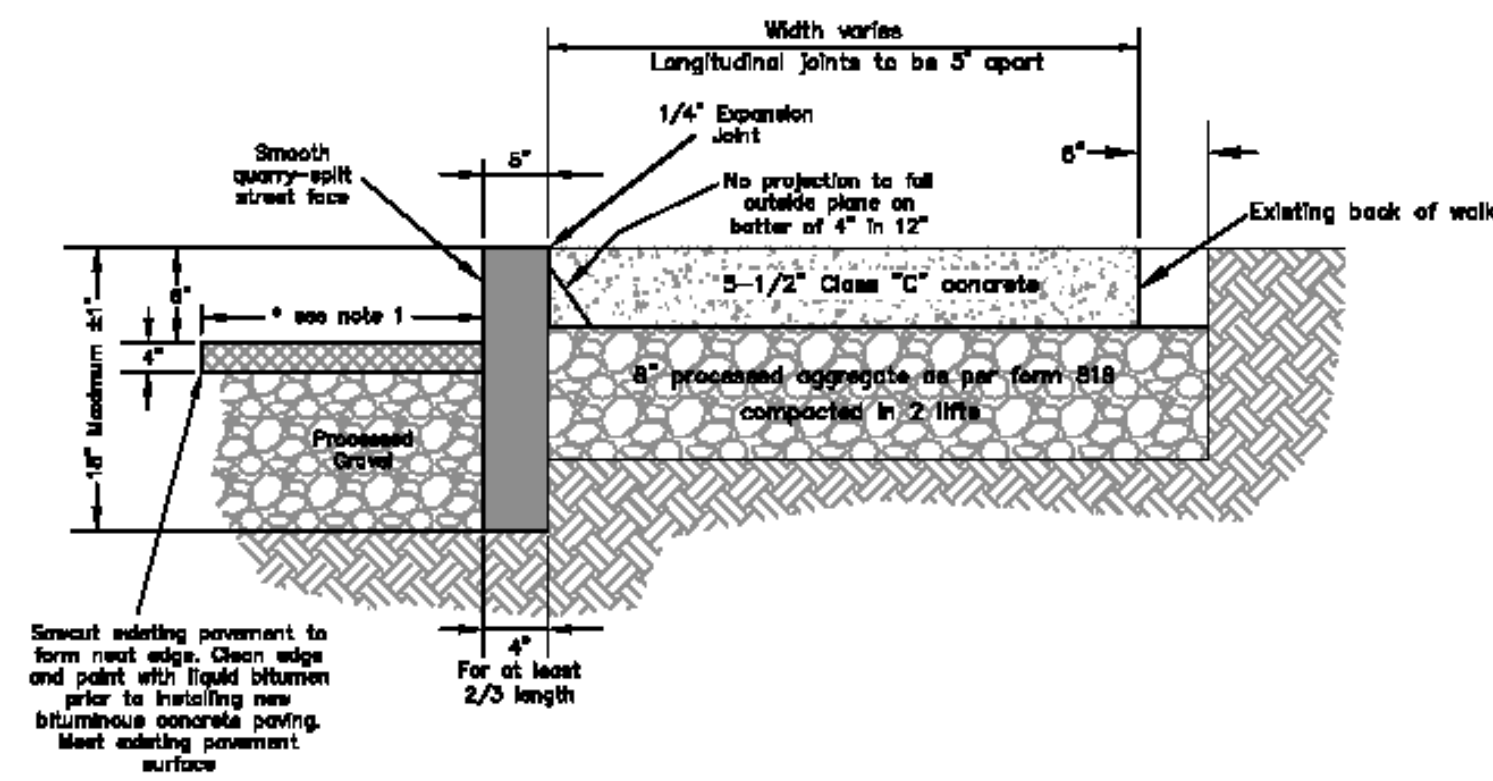


Section

Typical Monolithic Curb & Sidewalk

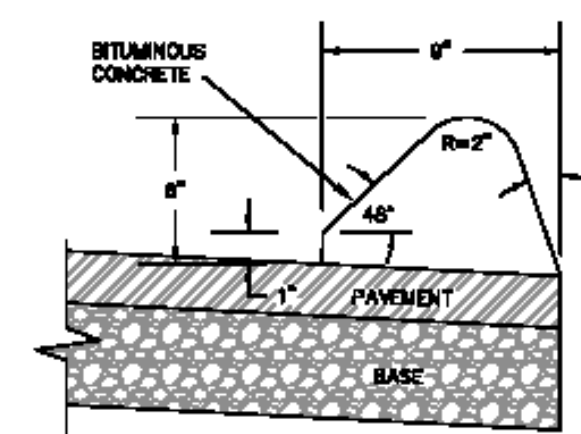
NOTE: Sidewalks must be formed with 2"x6" lumber or 3-1/2" high metal or wood forms

CURBING



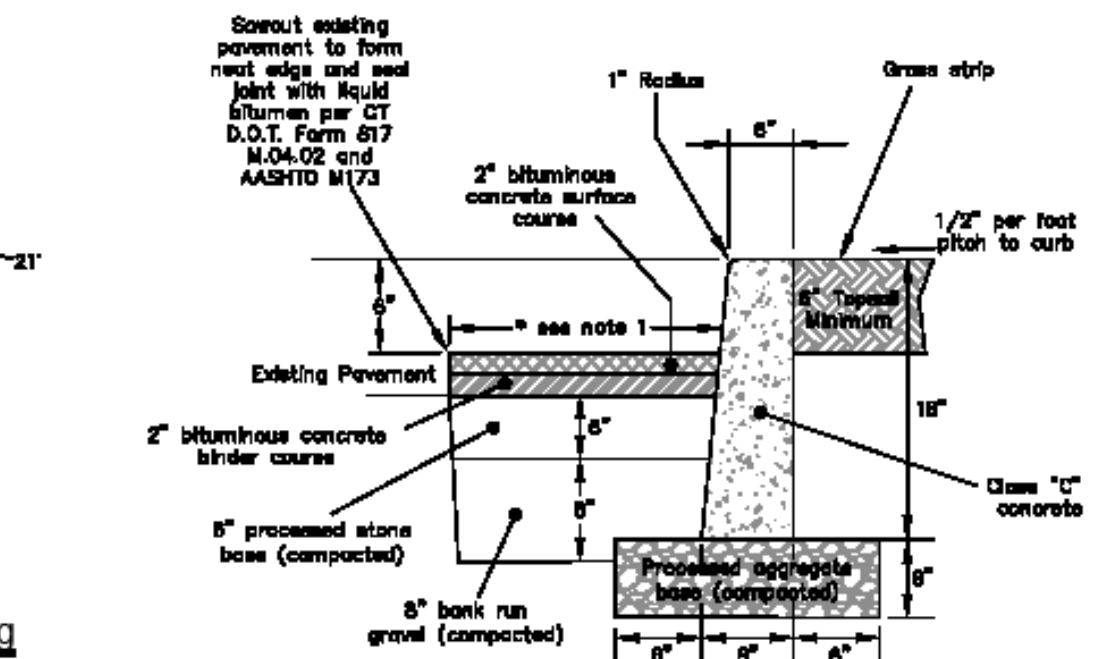
Granite Curbing

(N.T.S.)

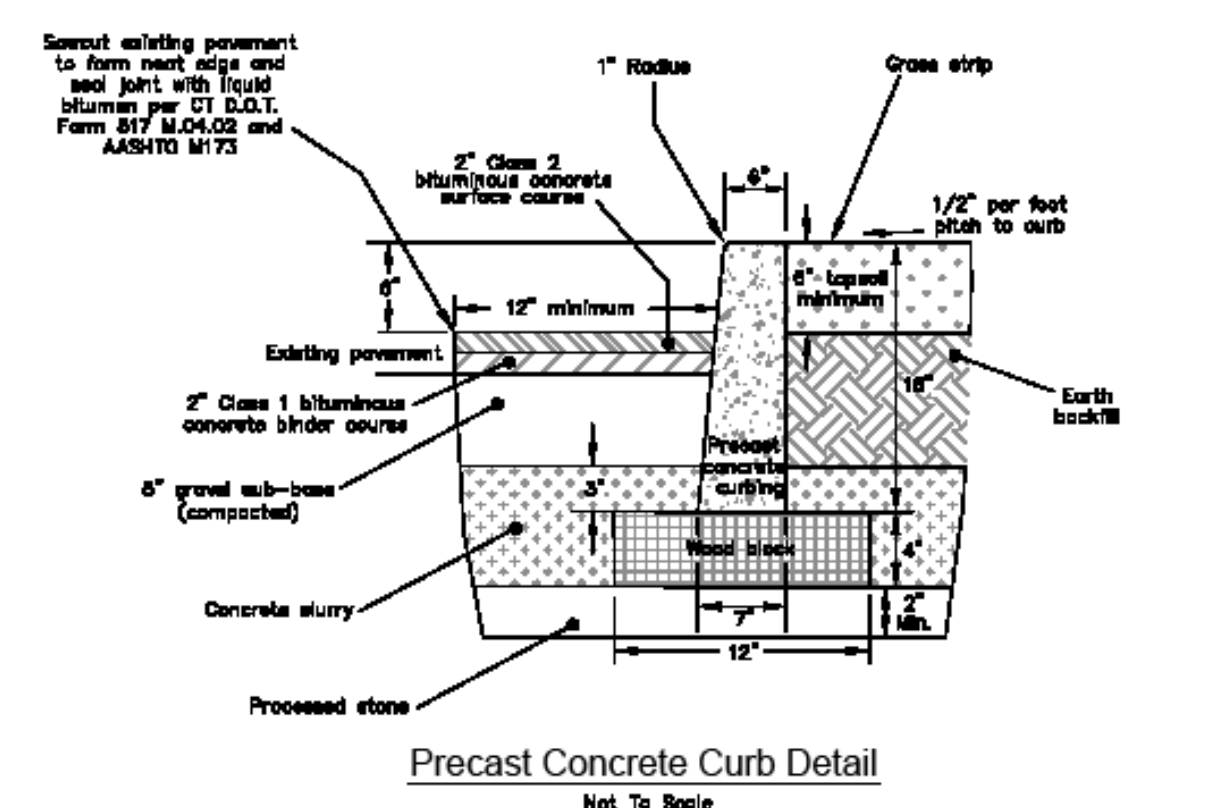


Bituminous Concrete Lip Curbing

Machine Formed



Poured In Place Concrete Curb



Precast Concrete Curb Detail

Not To Scale

Detail Sheet		DATE	2/20/19
Sidewalk and Driveway Standards		DESIGN	BBD
DEPARTMENT OF PUBLIC WORKS		SCALE	Not To Scale
Engineering Division		DWG.	
City Hall Room 19		SHEET	1
Meriden, Connecticut		OF	1

NOTE:
DETAILS ON THIS DRAWING APPLY TO WORK ON CITY OF MERIDEN STREETS & SIDEWALKS. REFER TO SITE PLAN DWG C501 TO DETERMINE WHICH DETAILS APPLY.

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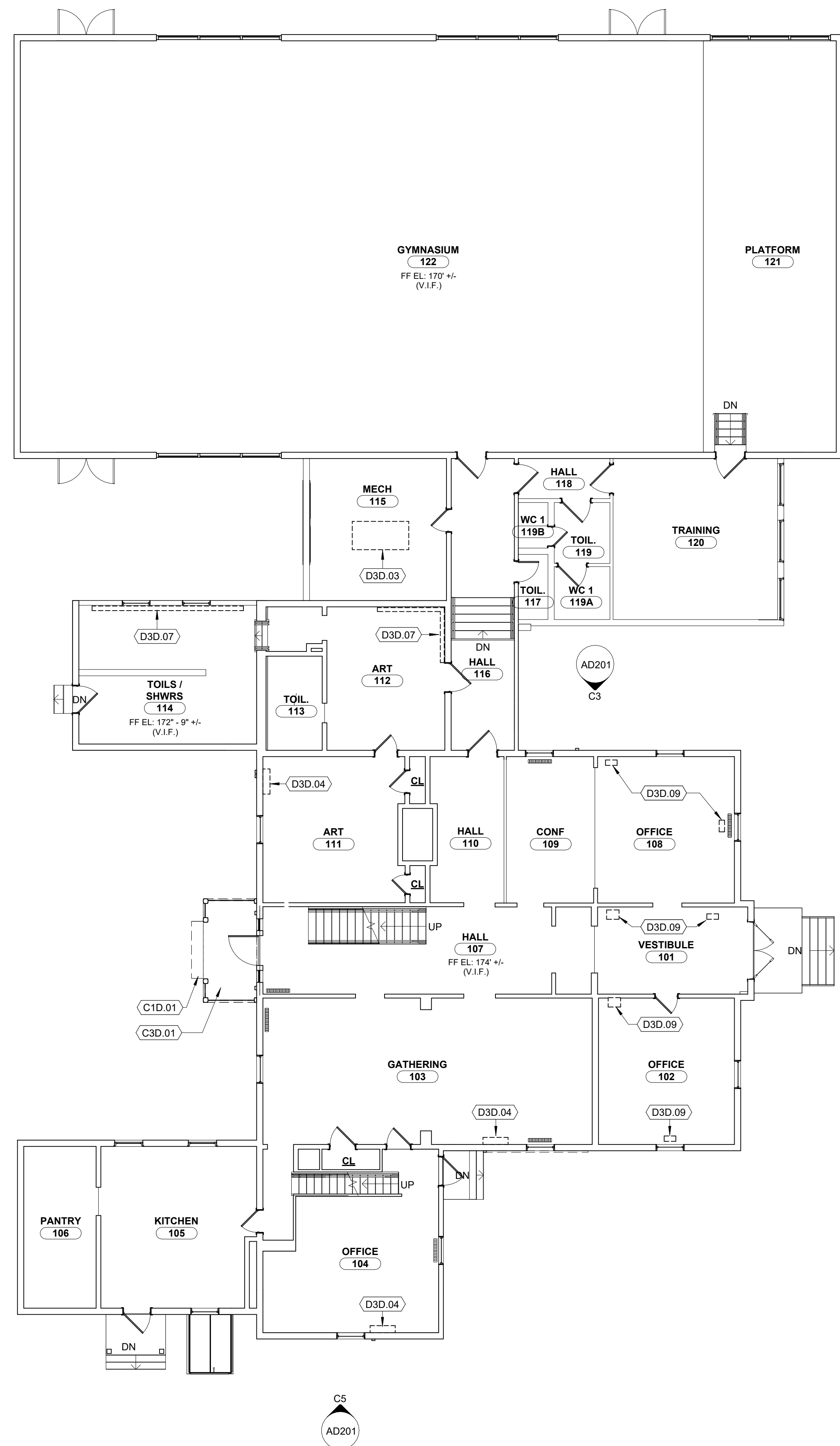
MARCH 12, 2024

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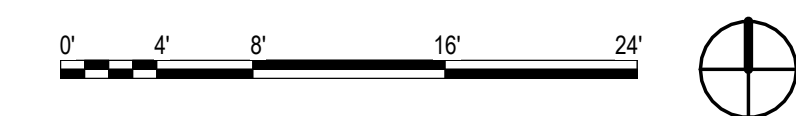
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SHEET TITLE
**CITY OF MERIDEN
STANDARD SIDEWALK &
DRIVEWAY DETAILS**

C503



A5 FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"



GENERAL NOTES

1. The intent of the Contract Documents is to include all items necessary for the proper execution and completion of all Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all. Where a conflict within the Contract Documents exists, the Contractor shall provide the better quality or greater quantity of work in accordance with the Architect's resolution without any increase in the Contract sum. Organization of the Specifications into divisions, sections and articles, and arrangement of sheets shall not control the Contractor in dividing the work among subcontractors, or in establishing the extent of Work to be performed by any trade.
2. REFERENCE KEY NOTES and SHEET KEY NOTES are intended to indicate and clarify the extent and requirements of the Work; they do not indicate every location or occurrence of required Work. The lack of a key note to an individual item of Work will not relieve the Contractor of responsibility to execute that Work as part of the Contract when the requirement for that Work can be logically inferred by other parts of the Contract Documents
3. Do not scale drawings, except for estimation and approximation purposes.
4. This is an existing building; all conditions and critical dimensions must be field verified.

KEYNOTES

- C1D.01 REMOVE CONCRETE STEP
- C3D.01 REMOVE WOOD PORCH, RELATED FOUNDATIONS & PORTIONS OF WOOD COLUMNS. SEE DEMOLITION ELEVATION
- D3D.03 REMOVE SUSPENDED AIR HANDLING UNIT, & PORTIONS EXISTING DUCTWORK. SEE MECHANICAL DEMOLITION DRAWINGS
- D3D.04 REMOVE WALL MOUNTED FAN COIL UNIT & ALL RELATED COMPONENTS. SEE MECHANICAL DEMOLITION DRAWINGS
- D3D.07 REMOVE BASEBOARD RADIATION
- D3D.09 REMOVE EXISTING FLOOR MOUNTED AIR TERMINAL SEE MECHANICAL DEMOLITION DWGS

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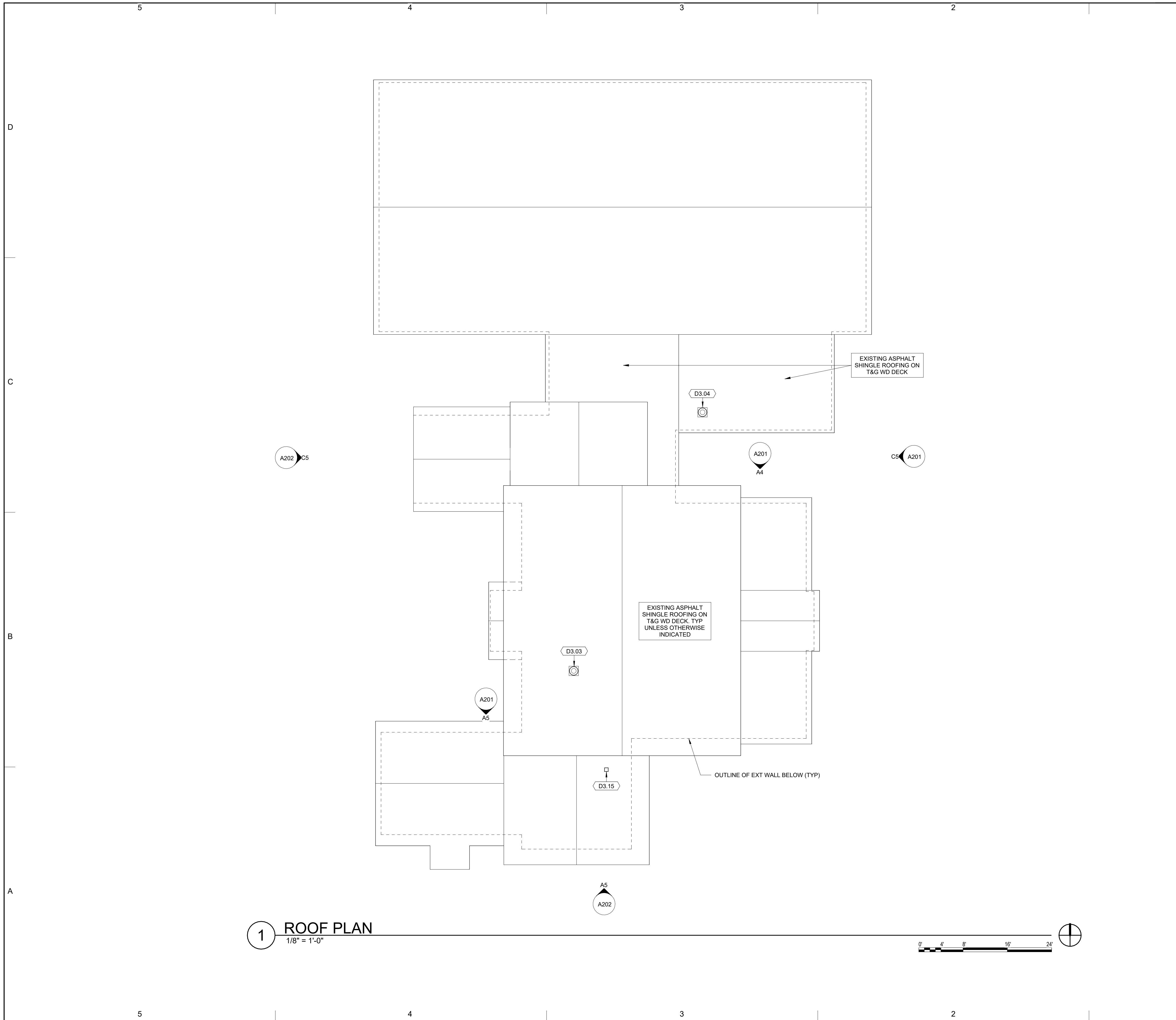
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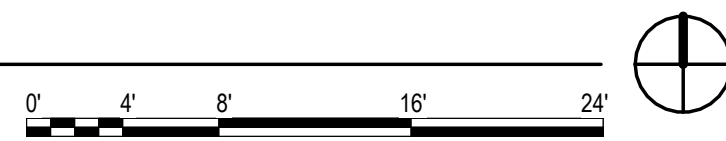
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SHEET TITLE
FIRST FLOOR
DEMOLITION PLAN

AD101



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



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KEYNOTES

- D3.03 CURB MOUNTED ROOFTOP EXHAUST FAN HOOD. SEE MECHANICAL DRAWINGS. COORDINATE LOCATION W/ ROOF FRAMING. CUT OPENING IN WOOD ROOF DECK & FLASH INTO EXISTING ASPHALT SHINGLE ROOFING. PROVIDE SUPPLEMENTAL 2x WD SUPPORT FRAMING BELOW ROOF DECK & BLOCKING AS REQUIRED TO SUPPORT & SECURELY ANCHOR HOOD IN PLACE
- D3.04 CURB MOUNTED ROOFTOP EXHAUST FAN HOOD. SEE MECHANICAL DRAWINGS. COORDINATE LOCATION W/ ROOF FRAMING. CUT OPENING IN WOOD ROOF DECK & FLASH HOOD INTO EXISTING SBS (MODIFIED BITUMEN) ROOFING PER ROOFING SYSTEM MFR RECOMMENDATIONS. PROVIDE SUPPLEMENTAL 2x WD SUPPORT FRAMING BELOW ROOF DECK & BLOCKING AS REQUIRED TO SUPPORT & SECURELY ANCHOR HOOD IN PLACE
- D3.15 CEILING EXHAUST FAN W/ DUCT THROUGH WALL & UP TO CAP ON ROOF. SEE MECHANICAL DWGS. EXACT ROUTING TO BE DETERMINED IN FIELD

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SHEET TITLE
ROOF PLAN

A120

5

4

3

2

GENERAL NOTES

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SHEET TITLE
NORTH & EAST
BUILDING ELEVATIONS

A201

KEYNOTES

- D3.01 PAD MOUNTED CONDENSING UNIT. SEE MECHANICAL DWGS
- D3.05 CONDENSING UNIT LINESETS, WIRING & ENCLOSURE. SEE MECH DWGS. REUSE EXISTING WALL PENETRATIONS TO INTERIOR FCU
- D3.06 CONDENSING UNIT LINESETS, WIRING & ENCLOSURE. SEE MECH DWGS
- D3.08 EXTERIOR PAD MOUNTED AHU. SEE MECH DWGS. SEE DWG C501 FOR CONC PAD DETAIL
- D3.17 WALL CAP FOR SECOND FLR BATHROOM EXHAUST DUCT. SEAL WALL PENETRATION. MINIMIZE DISURBANCE TO & PATCH/REPLACE PORTION OF ALUMINUM SIDING AFFECTED BY INSTALLATION. INSTALLATION SHALL BE WEATHERTIGHT

D

C

B

A

THIRD FLOOR
197' - 8 7/16"

SECOND FLOOR
186' - 9 13/16"

FIRST FLOOR
174' - 0"

BASEMENT
166' - 2 3/16"

C5 EAST ELEVATION
1/8" = 1'-0"



FIRST FLOOR LOWER
169' - 11 7/8"

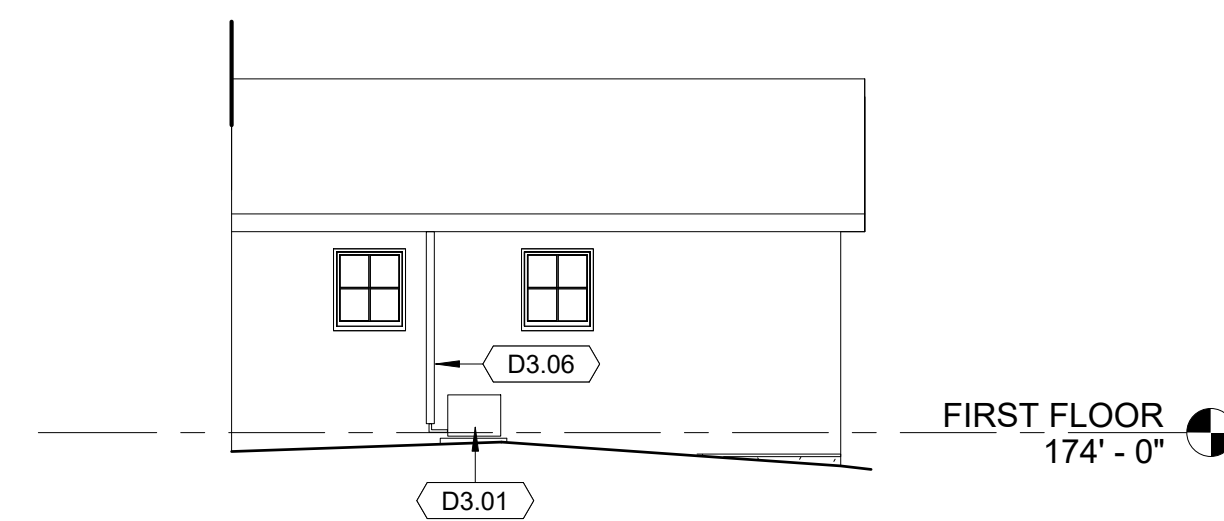
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197' - 8 7/16"

SECOND FLOOR
186' - 9 13/16"

FIRST FLOOR
174' - 0"

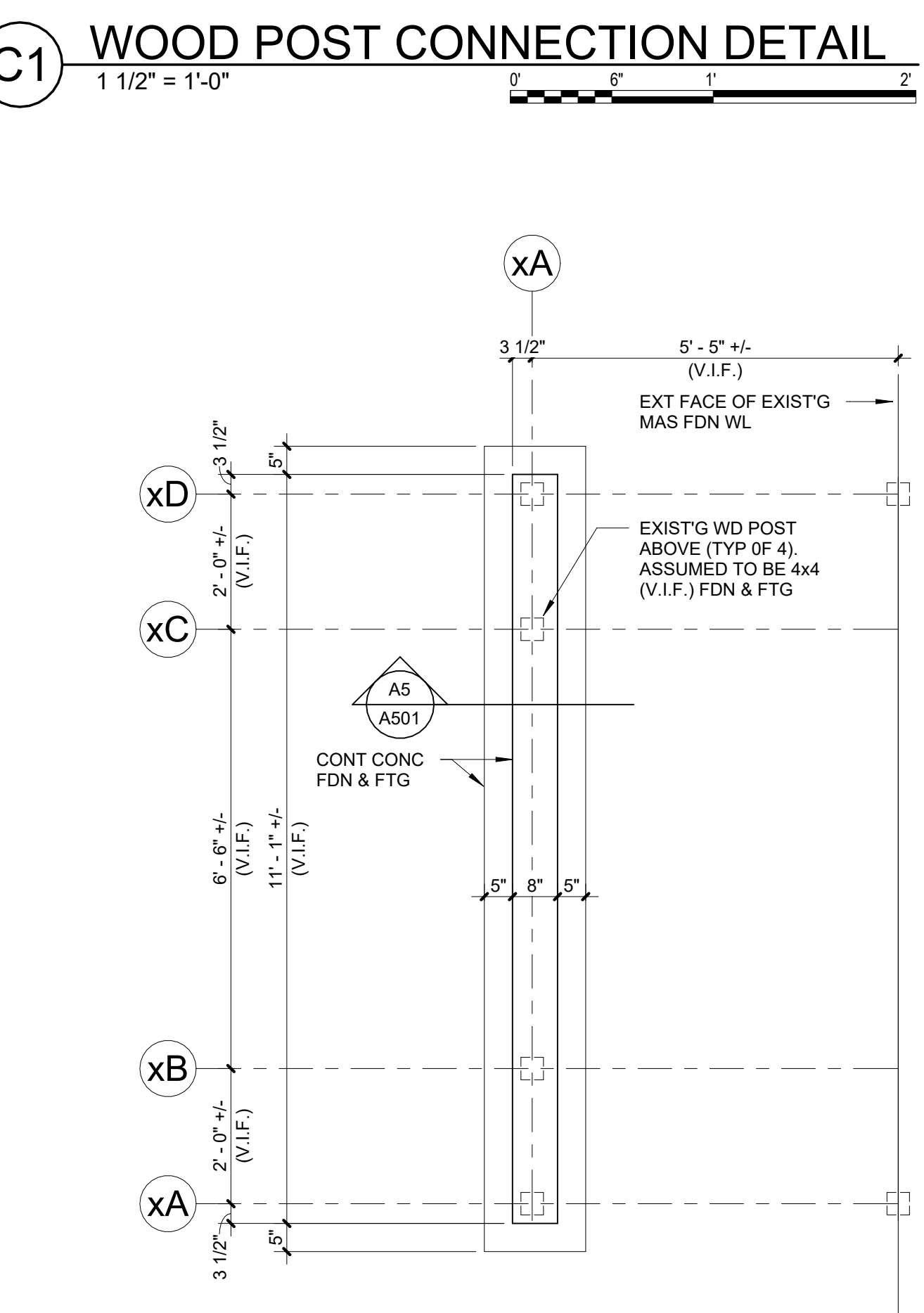
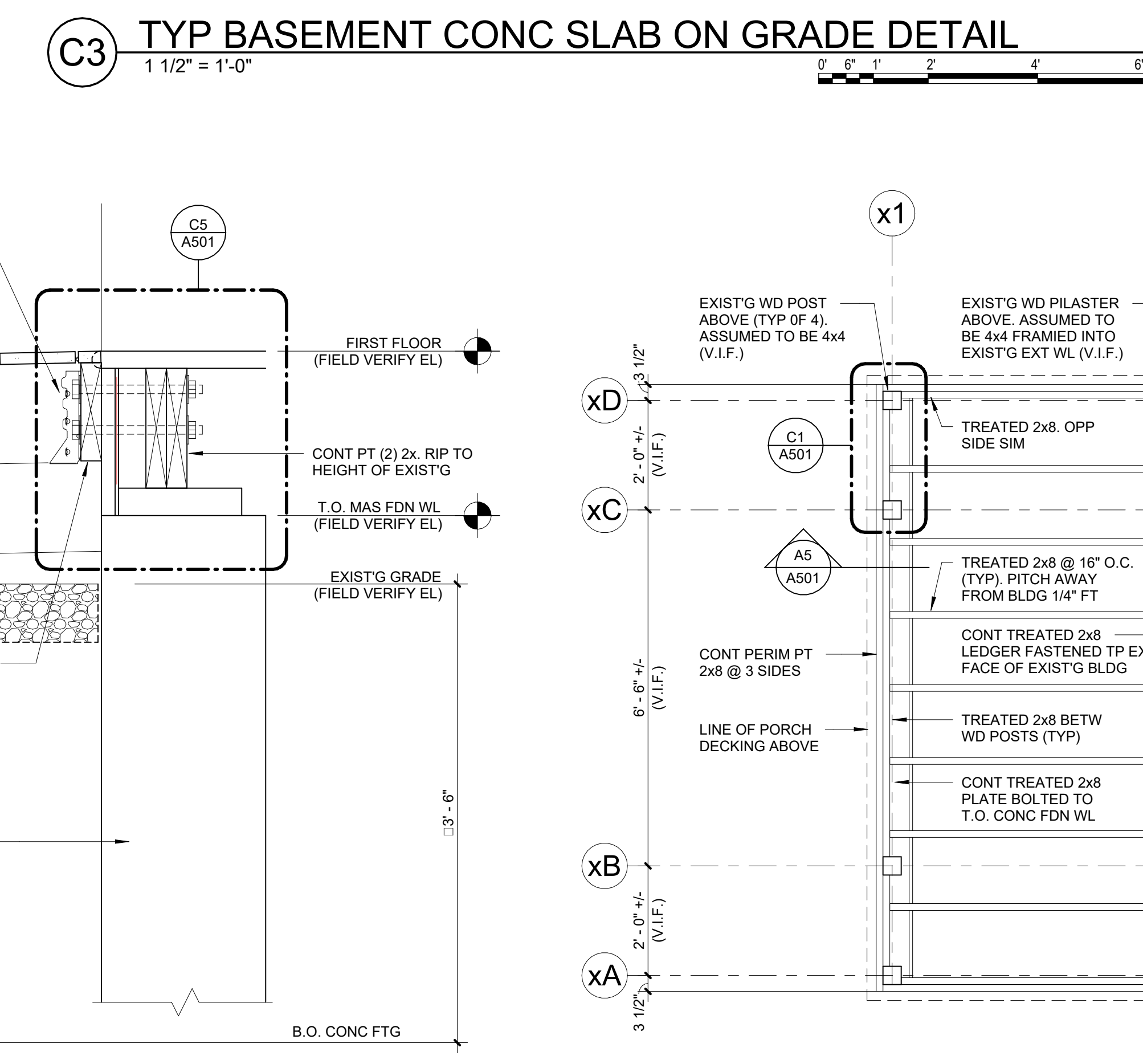
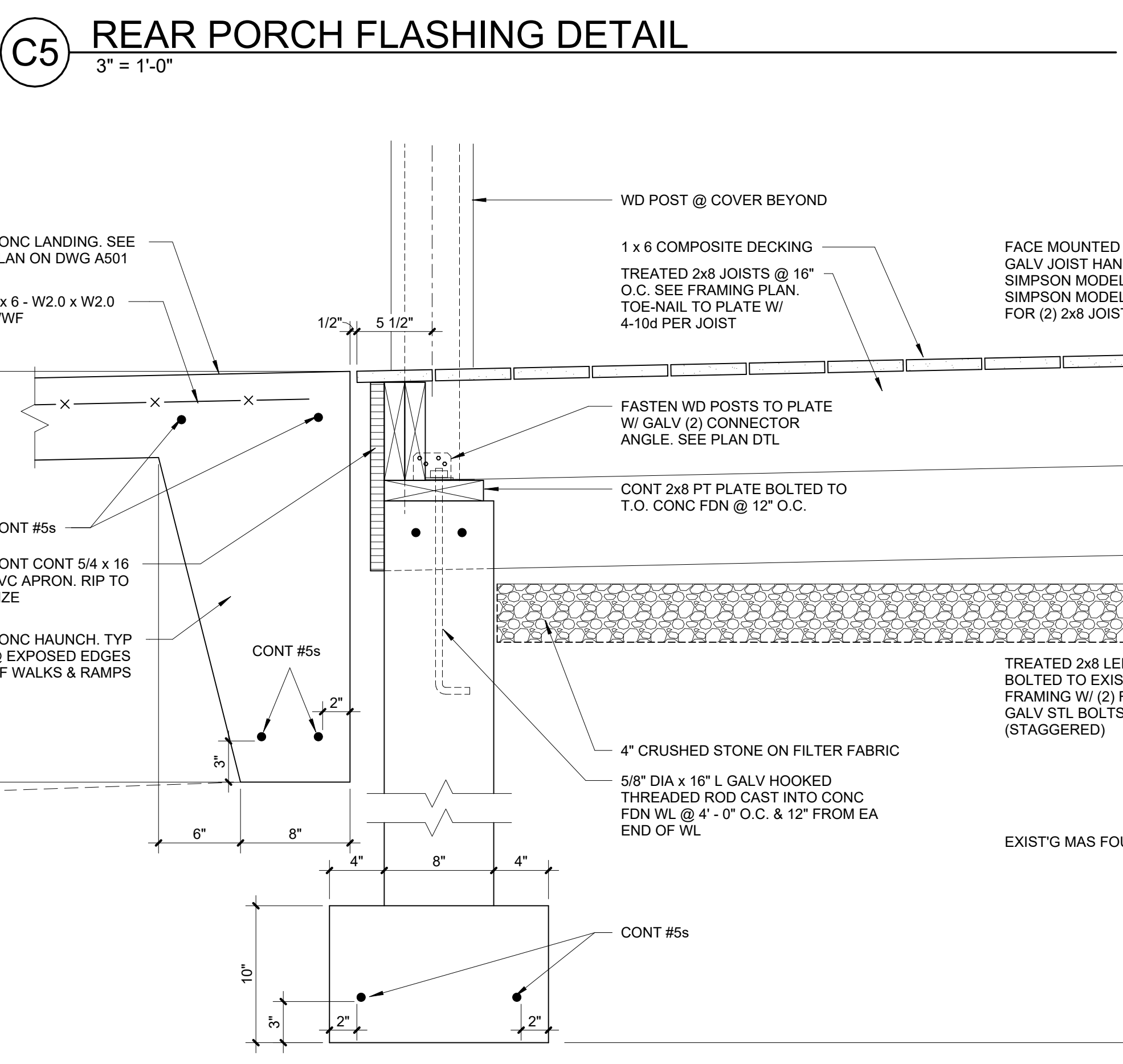
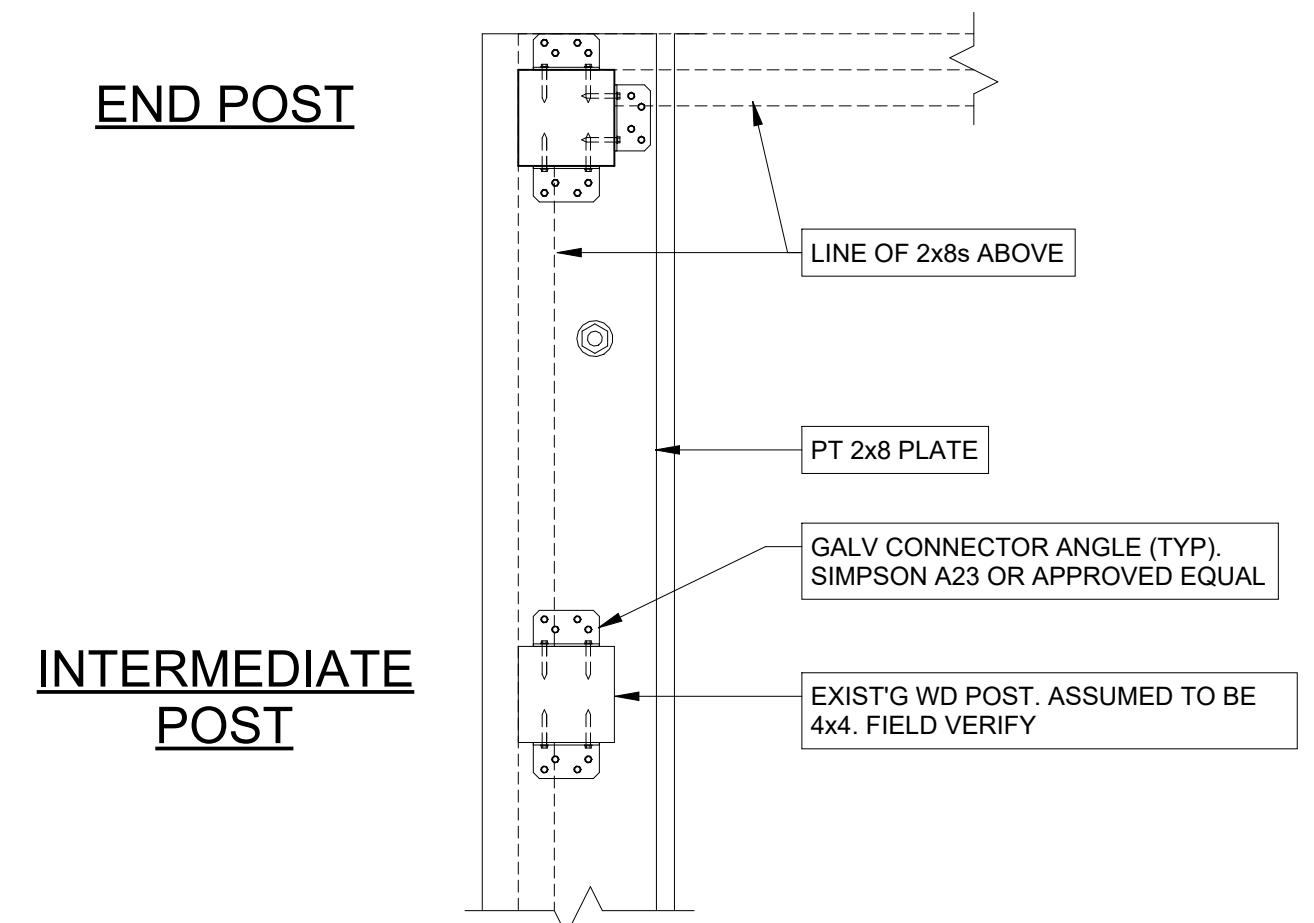
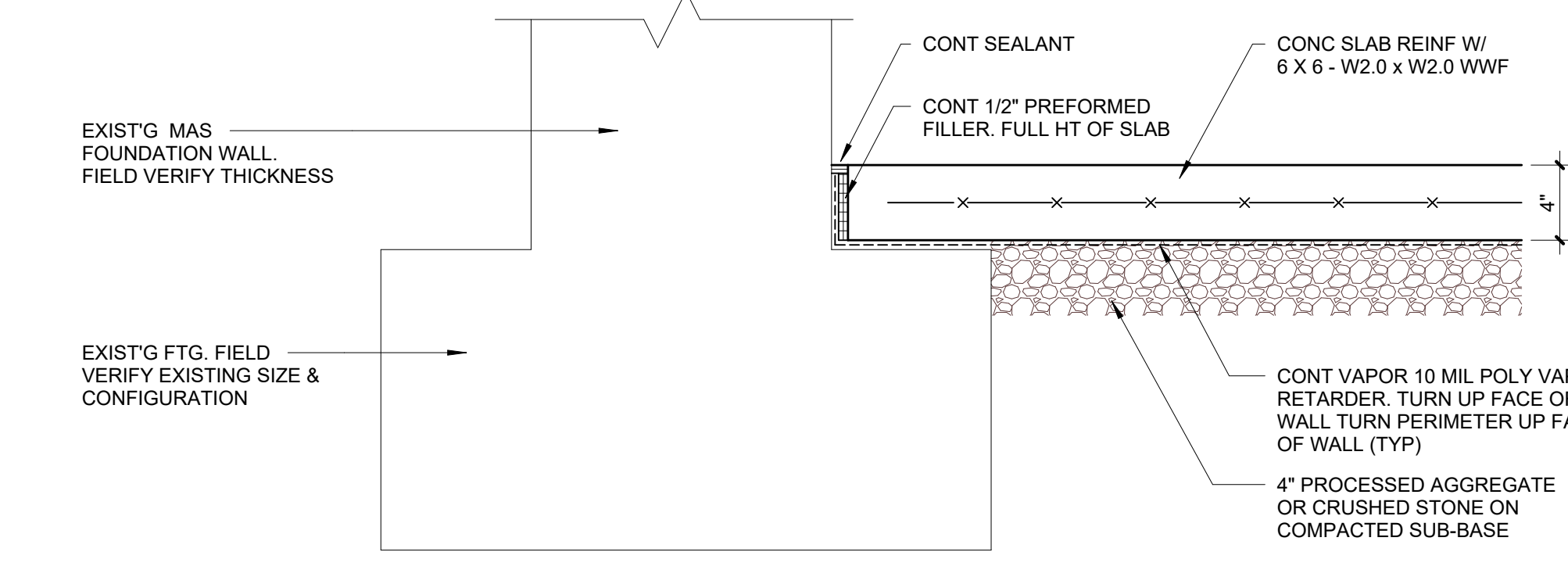
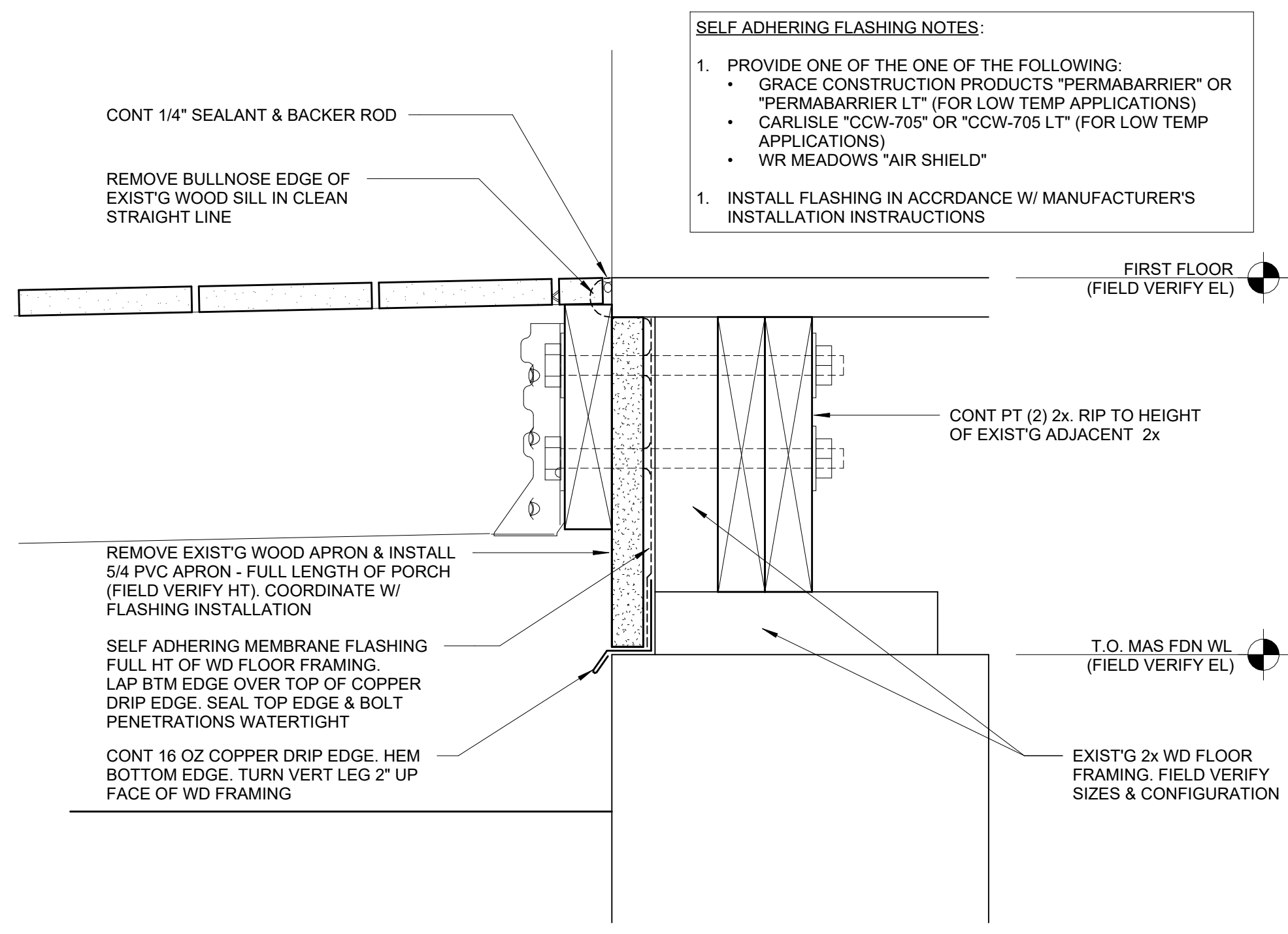
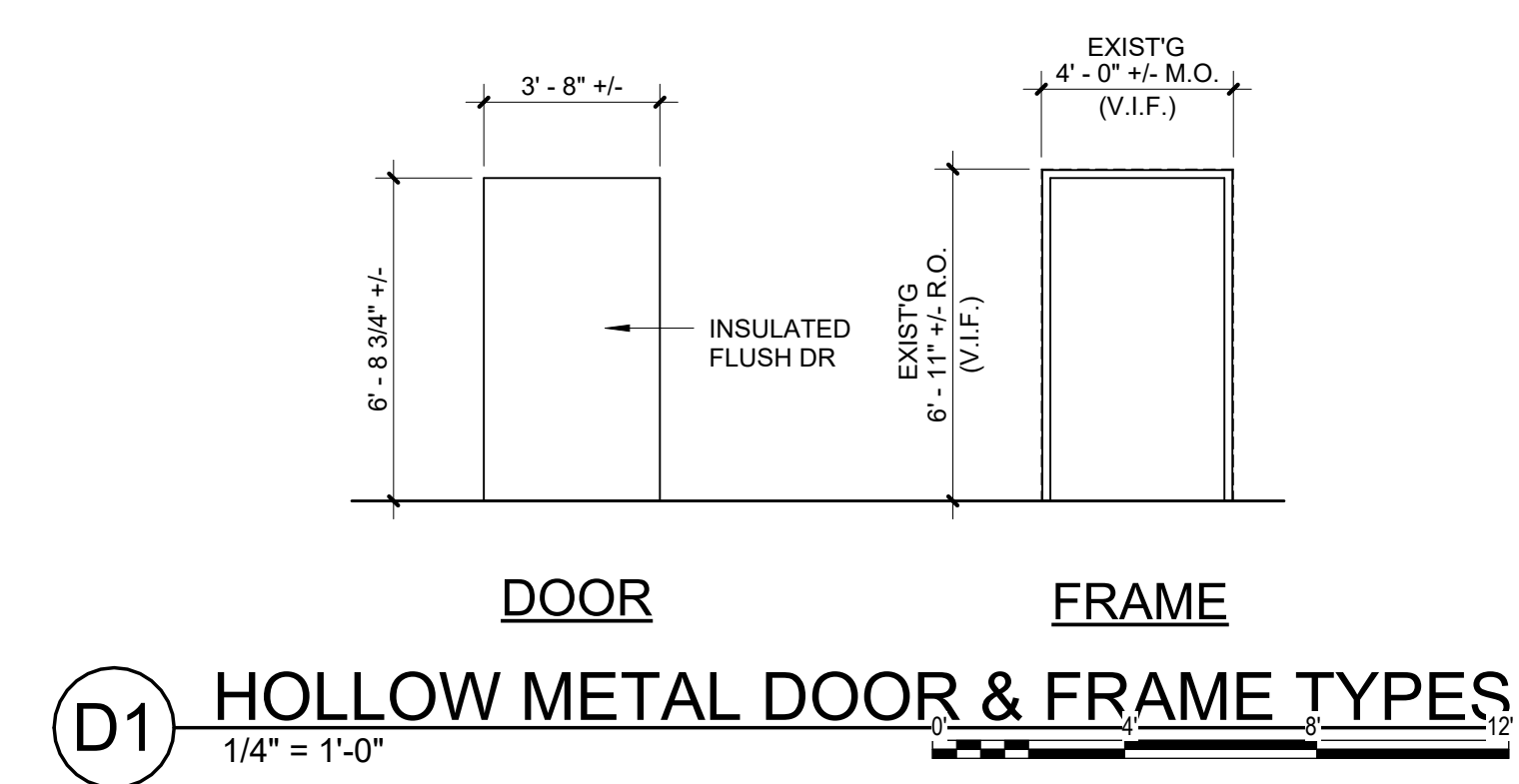
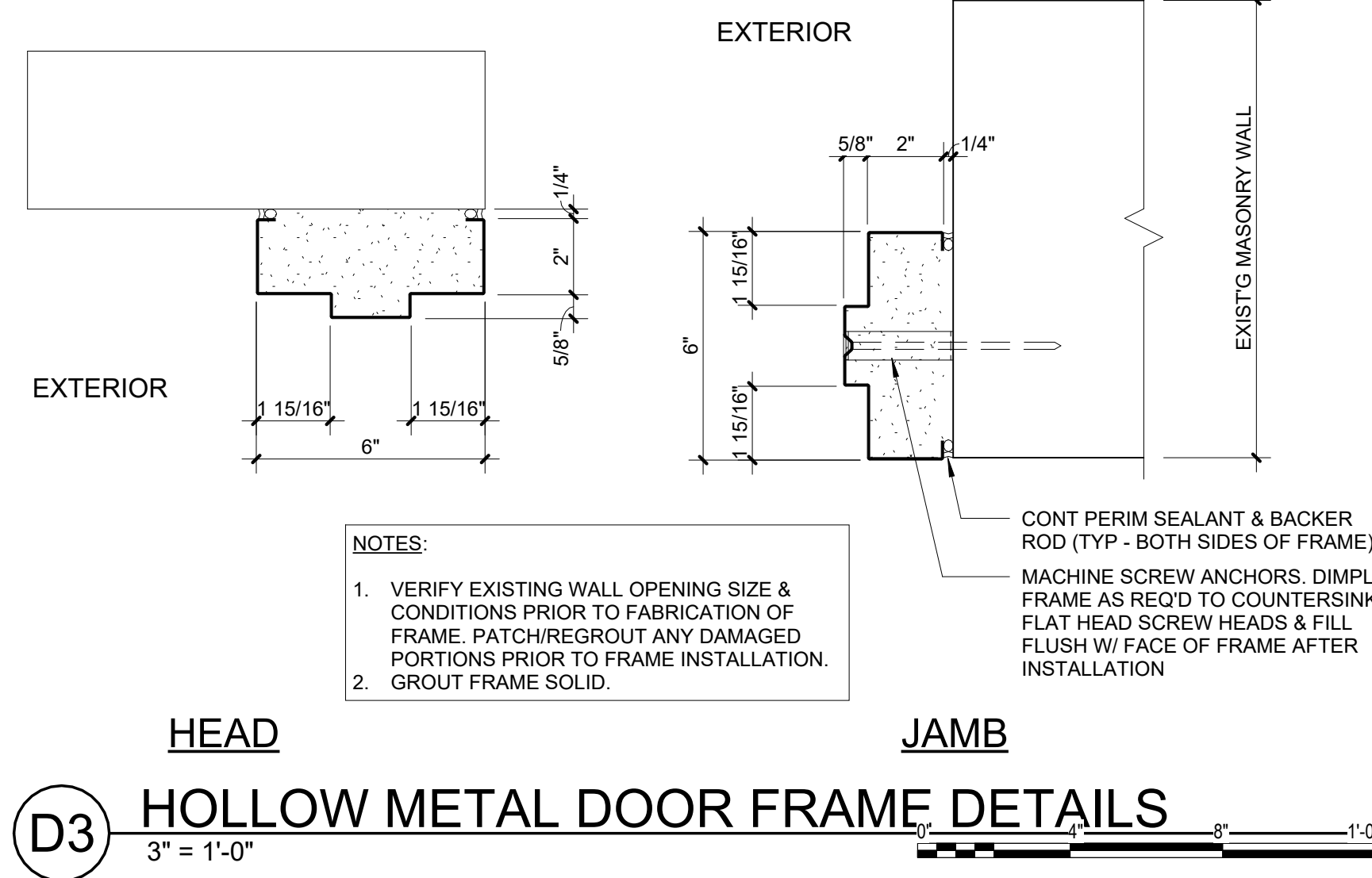
BASEMENT
166' - 2 3/16"

A5 PARTIAL NORTH ELEVATION
1/8" = 1'-0"



A4 NORTH ELEVATION ORIGINAL BUILDING
1/8" = 1'-0"





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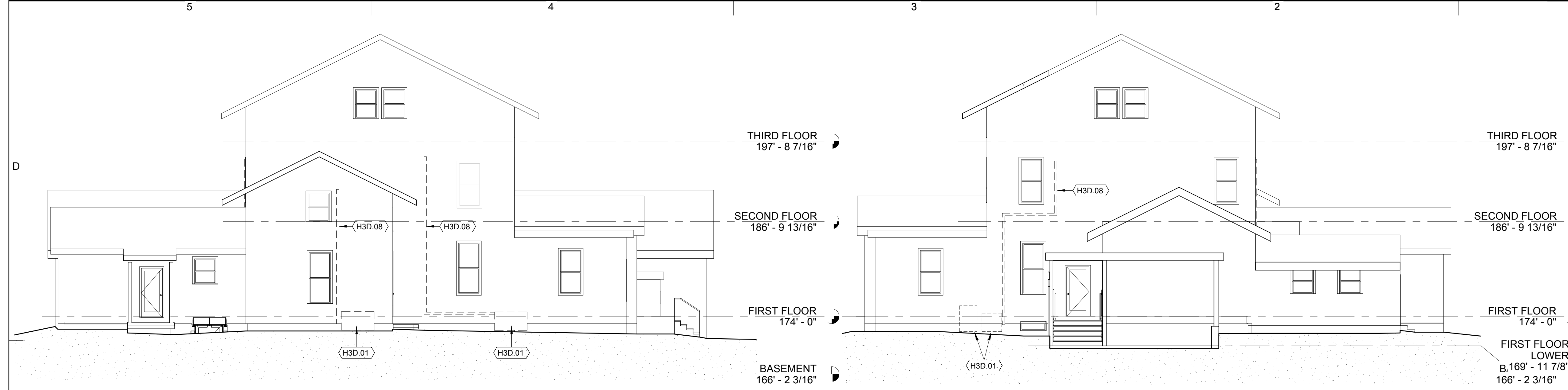
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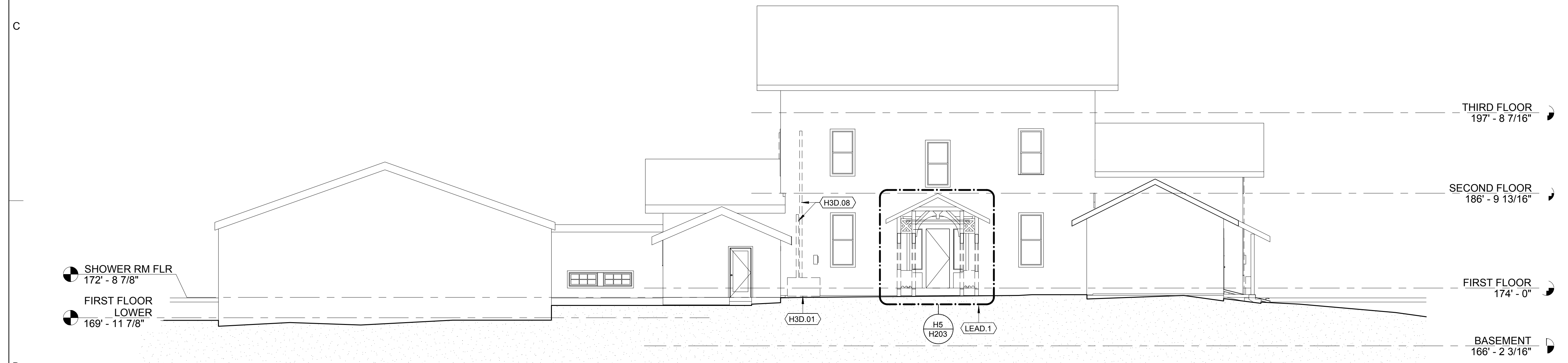
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A501



H4 SOUTH BUILDING ELEVATION - ABATEMENT
1/8" = 1'-0"

H3 NORTH ELEVATION - MAIN BUILDING - ABATEMENT
1/8" = 1'-0"



H5 WEST BUILDING ELEVATION - ABATEMENT
1/8" = 1'-0"



H6 EAST BUILDING ELEVATION - ABATEMENT
1/8" = 1'-0"

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KEYNOTES

H3D.01 CONDENSING UNIT BEING REMOVED. NO ACM OR LEAD-BASED PAINT IMPACT ANTICIPATED.

H3D.08 WALL-MOUNTED WIRING & PIPES BEING REMOVED. NO ACM OR LEAD-BASED PAINT IMPACT ANTICIPATED.

LEAD.1 ENTRY PAINTED WITH LEAD-BASED PAINT. SEE DRAWING H203 FOR ABATEMENT DETAILS.

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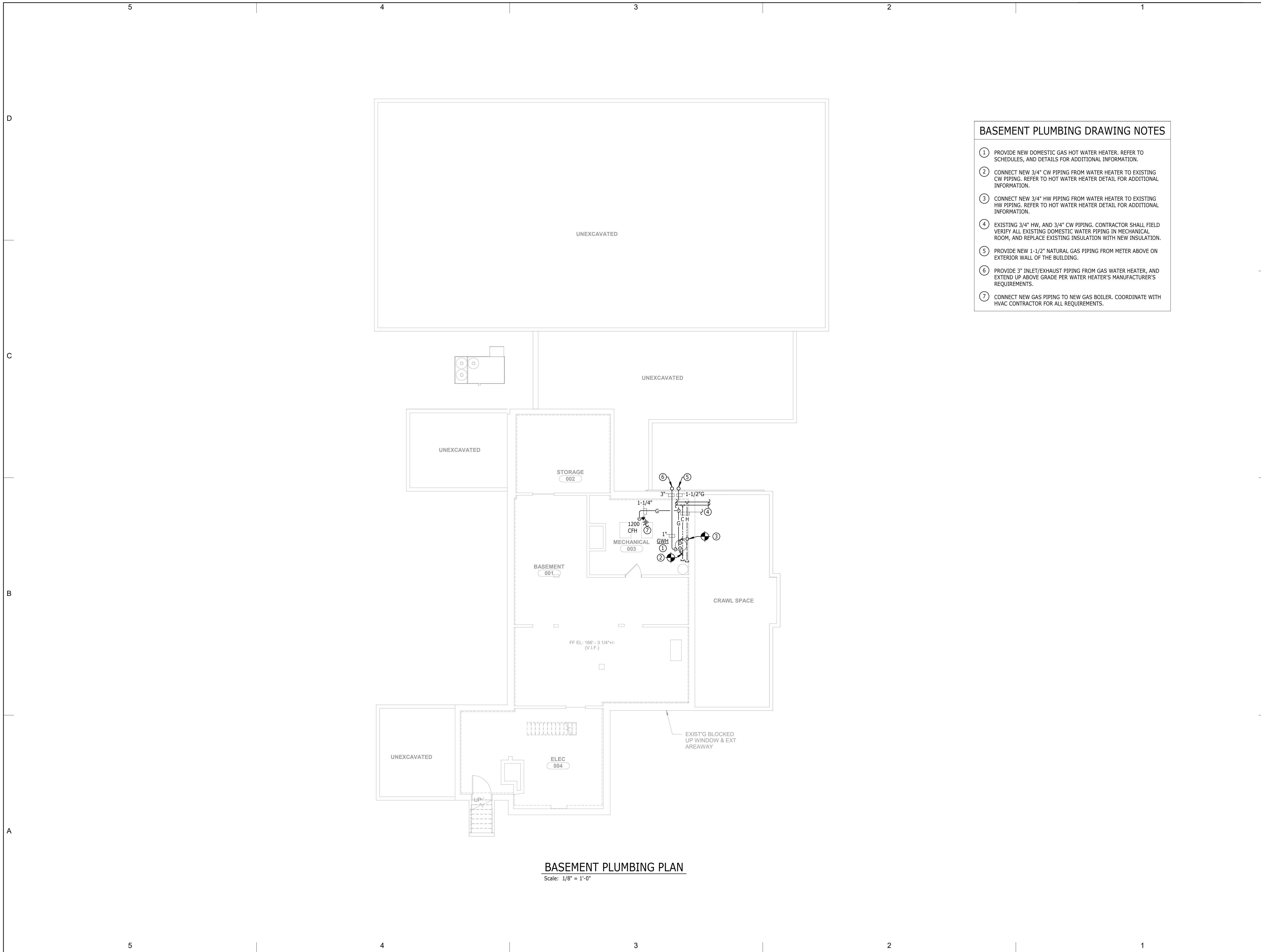
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BUILDING ELEVATIONS - ABATEMENT		

H201



BASEMENT PLUMBING DRAWING NOTES

- ① PROVIDE NEW DOMESTIC GAS HOT WATER HEATER. REFER TO SCHEDULES, AND DETAILS FOR ADDITIONAL INFORMATION.
- ② CONNECT NEW 3/4" CW PIPING FROM WATER HEATER TO EXISTING CW PIPING. REFER TO HOT WATER HEATER DETAIL FOR ADDITIONAL INFORMATION.
- ③ CONNECT NEW 3/4" HW PIPING FROM WATER HEATER TO EXISTING HW PIPING. REFER TO HOT WATER HEATER DETAIL FOR ADDITIONAL INFORMATION.
- ④ EXISTING 3/4" HW, AND 3/4" CW PIPING. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DOMESTIC WATER PIPING IN MECHANICAL ROOM, AND REPLACE EXISTING INSULATION WITH NEW INSULATION.
- ⑤ PROVIDE NEW 1-1/2" NATURAL GAS PIPING FROM METER ABOVE ON EXTERIOR WALL OF THE BUILDING.
- ⑥ PROVIDE 3" INLET/EXHAUST PIPING FROM GAS WATER HEATER, AND EXTEND UP ABOVE GRADE PER WATER HEATER'S MANUFACTURER'S REQUIREMENTS.
- ⑦ CONNECT NEW GAS PIPING TO NEW GAS BOILER. COORDINATE WITH HVAC CONTRACTOR FOR ALL REQUIREMENTS.

BASEMENT PLUMBING PLAN
Scale: 1/8" = 1'-0"

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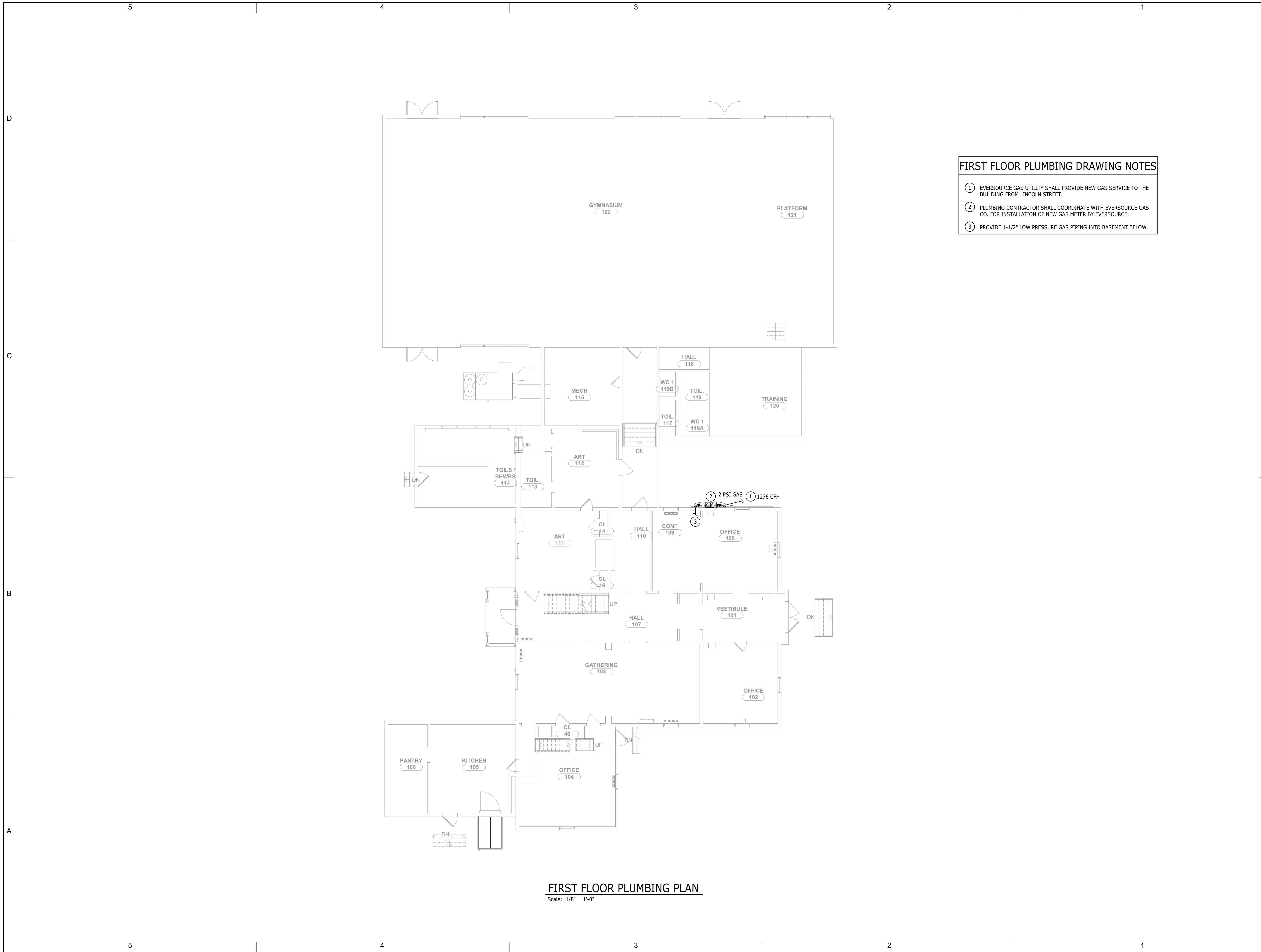
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BASEMENT PLUMBING PLAN

P.100



- FIRST FLOOR PLUMBING DRAWING NOTES**
- ① EVERSOURCE GAS UTILITY SHALL PROVIDE NEW GAS SERVICE TO THE BUILDING FROM LINCOLN STREET.
 - ② PLUMBING CONTRACTOR SHALL COORDINATE WITH EVERSOURCE GAS CO. FOR INSTALLATION OF NEW GAS METER BY EVERSOURCE.
 - ③ PROVIDE 1-1/2" LOW PRESSURE GAS PIPING INTO BASEMENT BELOW.

FIRST FLOOR PLUMBING PLAN
Scale: 1/8" = 1'-0"

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FIRST FLOOR PLUMBING PLAN

P.101

PLUMBING SPECIFICATIONS

TECHNICAL REQUIREMENTS

THESE SPECIFICATIONS CALL OUT CERTAIN DUTIES OF THE CONTRACTOR AND HIS SUBCONTRACTOR. THEY ARE NOT INTENDED AS SUBCONTRACT DOCUMENTS, NOR ARE THEY INTENDED AS A MATERIAL LIST OF ITEMS REQUIRED BY THE CONTRACT.

PROVIDE ALL ITEMS AND WORK CALLED FOR IN THIS DIVISION OF THE SPECIFICATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS INCLUDES ALL INCIDENTALS, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, SUPERVISION LABOR, CONSUMABLE ITEMS, FEES, LICENSES, ETC., NECESSARY TO PROVIDE COMPLETE SYSTEMS. PERFORM START UP AND CHECK OUT EACH ITEM AND SYSTEM TO PROVIDE FULLY OPERABLE SYSTEMS.

INTENT OF DRAWINGS

DO NOT SCALE DRAWINGS. CHECK EXISTING SPACE CONDITIONS AT THE JOB SITE.

CODES AND STANDARDS

INTERNATIONAL BUILDING CODE IBC, 2021 EDITION, AS AMENDED BY THE STATE OF CONNECTICUT 2022 AMENDMENTS.

INTERNATIONAL PLUMBING CODE, 2021 EDITION, AS AMENDED BY THE STATE OF CONNECTICUT 2022 AMENDMENTS.

NFPA 101, LIFE SAFETY CODE, 2021 EDITION, AS AMENDED BY THE STATE OF CONNECTICUT 2022 AMENDMENTS.

NFPA 54: NATIONAL FUEL GAS CODE, 2021 EDITION, AS AMENDED BY THE STATE OF CONNECTICUT 2022 AMENDMENTS.

NFPA 70: NATIONAL ELECTRICAL CODE, 2020 EDITION, AS AMENDED BY THE STATE OF CONNECTICUT 2022 AMENDMENTS.

CONNECTICUT DEPARTMENT OF PUBLIC HEALTH CODE.

OCCUPATIONAL SAFETY AND HEALTH STANDARDS.

DEPARTMENT OF ENVIRONMENTAL PROTECTION.

INTERNATIONAL ENERGY CONSERVATION CODE, 2021, AS AMENDED BY THE STATE OF CONNECTICUT 2022 AMENDMENTS.

STATE DEMOLITION CODE.

LOCAL BUILDING CODE.

ICC/ANSI A117.1, 2017, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, AS AMENDED BY THE STATE OF CONNECTICUT 2022 AMENDMENTS.

COMPLY WITH ALL APPLICABLE GOVERNMENTAL REGULATIONS. COMPLY WITH ALL FEDERAL, STATE, CITY, INSURANCE UNDERWRITERS AND OTHER APPLICABLE CODES AND ORDINANCES. IF ANY CONFLICT ARISES BETWEEN THESE SPECIFICATIONS, CODES AND ORDINANCES, IMMEDIATELY NOTIFY THE ENGINEER. DO NOT DEVIATE FROM THE SPECIFICATIONS NOR INSTALL ANY WORK WHICH MAY BE IN CONFLICT WITH CODES AND ORDINANCES UNTIL THE CONFLICT IS RESOLVED AND THE SOLUTION APPROVED BY THE ENGINEER.

SUBMITTALS

PRODUCT DATA: SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA, INCLUDING RATED CAPACITIES OF SELECTED MODEL CLEARLY INDICATED, FURNISHED SPECIALTIES AND ACCESSORIES; AND INSTALLATION INSTRUCTIONS.

SHOP DRAWINGS: SUBMIT MANUFACTURER'S ASSEMBLY TYPE SHOP DRAWINGS INDICATING DIMENSIONS, ROUGHING-IN REQUIREMENTS, REQUIRED CLEARANCES, AND METHODS OF ASSEMBLY OF COMPONENTS AND ANCHORAGES.

MAINTENANCE DATA: SUBMIT MAINTENANCE DATA AND PARTS LISTS FOR EACH TYPE OF PLUMBING FIXTURE AND ACCESSORY; INCLUDING "TROUBLE SHOOTING" MAINTENANCE GUIDE. INCLUDE THIS DATA, PRODUCT DATA AND SHOP DRAWINGS IN MAINTENANCE MANUAL.

PROVIDE SHOP DRAWING SUBMITTALS OF ALL PLUMBING EQUIPMENT INCLUDING:

- PIPING VALVES SPECIALTIES

CERTAIN TERMS SUCH AS "SHALL, PROVIDE, INSTALL, COMPLETE, START-UP" ARE NOT USED IN SOME PARTS OF THESE SPECIFICATIONS. THIS DOES NOT INDICATE ITEMS SHALL BE LESS THAN COMPLETELY INSTALLED OR THAT SYSTEMS SHALL BE LESS THAN COMPLETE.

PERMITS AND FEES

SECURE AND PAY COSTS OF PERMITS, CERTIFICATES, LICENSES, INSPECTIONS AND APPROVALS.

ADJUSTMENTS

UPON COMPLETION OF WORK, PERFORM THE FOLLOWING ADJUSTMENT PROCEDURES:

ADJUST SYSTEMS COMPONENTS FOR PROPER PERFORMANCE. OPEN AND CLOSE VALVES, SET IN PROPER OPERATING POSITION.

ACCESSIBILITY

PLACE VALVES, UNIONS, DRAINS, AND ITEMS REQUIRING MAINTENANCE, ADJUSTMENT, OR REPAIR, IN ACCESSIBLE LOCATIONS. COORDINATE ACCESS PANELS WITH ARCHITECT.

REFERENCE PUBLICATIONS

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) AND AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) PUBLICATIONS ARE REFERRED TO HEREIN, BECAUSE THESE PUBLICATIONS ARE REVISED FREQUENTLY, DATES FOLLOWING PUBLICATION NUMBERS HAVE BEEN OMITTED. REFER TO LATEST EDITION.

COORDINATION OF WORK

TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.

WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH OTHER TRADES TO INSURE THAT ALL TRADES HAVE THE INFORMATION NECESSARY SO THEY MAY PROPERLY INSTALL ALL THE NECESSARY CONNECTIONS AND EQUIPMENT. IDENTIFY ALL WORK ITEMS (VALVES, DRAINS, ETC.) IN AN APPROVED MANNER IN ORDER THAT THE CEILING SUBCONTRACTOR WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.

CONSULT WITH OTHER TRADES REGARDING EQUIPMENT SO, WHEREVER POSSIBLE, MOTORS AND CONTROL ARE OF THE SAME MANUFACTURER.

FURNISH AND SET ALL SLEEVES FOR PASSAGE OF PIPES AND CONDUITS THROUGH STRUCTURAL MASONRY AND CONCRETE WALL AND FLOORS, AND ELSEWHERE AS WILL BE REQUIRED FOR THE PROTECTION OF EACH PIPE PASSING THROUGH BUILDING SURFACES.

PROVIDE REQUIRED SUPPORTS AND HANGERS FOR PIPING, FIXTURES AND EQUIPMENT, SO LOADING WILL NOT EXCEED ALLOWABLE LOADINGS OF STRUCTURE.

CONFORM THE PLUMBING WORK TO THE REQUIREMENTS HEREIN. PROVIDE OFFSETS, FITTINGS, DRAINS, AND ACCESSORIES WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK, AND ARRANGE THE WORK ACCORDINGLY. PROVIDE SUCH PIPING, FITTINGS, VALVES AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS.

ELECTRICAL CONNECTIONS

POWER SUPPLY WILL BE PROVIDED UNDER DIVISION 16, AND CONNECTIONS MADE TO ANY NEW ELECTRICAL ITEMS. TO FACILITATE ELECTRICAL CONNECTIONS EQUIP ELECTRICAL ITEMS WITH NEMA ENCLOSURES HAVING ADEQUATE KNOCKOUTS, CONNECTORS, TERMINAL BLOCKS AND/OR CONTACTS.

PIPING IDENTIFICATION

CONSPICUOUSLY IDENTIFY NEW PIPING WITH SELF-ADHERING VINYL PLASTIC COLOR BANDS AND PIPE MARKERS IMPRINTED WITH LEGEND, BASED ON ANSO A13.1 "SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS".

APPLY LEGENDS TO FEED AND CROSS MAIN PIPING ADJACENT TO CHANGES IN DIRECTION WHERE PIPES PASS THROUGH WALLS OR FLOORS, AT INTERVALS NOT EXCEEDING 40 FEET IN STRAIGHT PIPING RUNS, AND ADJACENT TO CROSS MAIN CONNECTIONS WITH FEED MAIN.

MINIMUM LETTER SIZE:

- 1/2" FOR PIPING 3/4" TO 1-1/4" OD
3/4" FOR PIPING 1-1/2" TO 2" OD
1-1/4" FOR PIPING 2-1/2" TO 6" OD

MINIMUM COLOR BAND WIDTH:

- 8" FOR PIPING 3/4" TO 2" OD
12" FOR PIPING 2-1/2" TO 6" OD

OPERATING INSTRUCTIONS

INSTRUCT OWNER'S OPERATING PERSONNEL ON PROPER CARE, MAINTENANCE AND OPERATING PROCEDURES.

MAINTENANCE MANUAL

INCLUDE FOLLOWING IN MANUALS:

- MANUFACTURER'S DESCRIPTIVE DATA
OPERATION AND MAINTENANCE INSTRUCTIONS
REPLACEMENT PART LISTS
WIRING DIAGRAMS
MANUFACTURER'S WARRANTY & SERVICE CERTIFICATES
INSTRUCTIONS FOR PERIODIC CLEANING AND MAINTENANCE
PROCEDURES FOR SYSTEMS START-UP AND SHUT-DOWN
VALVE LOCATION AND TAG NUMBER CHARTS

CLEANING

CLEAN PIPING PRIOR TO PAINTING.

UPON COMPLETION OF WORK, PERFORM THE FOLLOWING CLEANING PROCEDURES:

- REMOVE PROTECTIVE COVERS AFTER PAINTING
CLEAN PIPING AND EQUIPMENT
REMOVE SURPLUS MATERIALS AND RUBBISH
RESTORE DAMAGED SURFACE FINISHES

ADJUSTMENTS

UPON COMPLETION OF WORK, PERFORM THE FOLLOWING ADJUSTMENT PROCEDURES:

ADJUST SYSTEMS COMPONENTS FOR PROPER PERFORMANCE. OPEN AND CLOSE VALVES, SET IN PROPER OPERATING POSITION. SEAL CONTROL VALVES OPEN.

GUARANTEE

SUPPLY TWO COPIES OF A WARRANTY COUNTERSIGNED AND GUARANTEED BY CONTRACTOR, STATING THAT IMPERFECT SYSTEM OPERATION AND ALL DEFECTS IN LABOR AND MATERIALS WILL BE REPAIRED WITHOUT COST TO OWNER FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION, AND STATING THAT ALL PLUMBING EQUIPMENT HAS BEEN FULLY SERVICED AND LEFT IN PROPER OPERATING CONDITION.

ALSO GUARANTEE THAT SERVICING WILL BE PROVIDED WITHOUT COST DURING GUARANTEE PERIOD.

PIPE SLEEVE INSTALLATION

PROVIDE FOR PIPING PASSING THROUGH WALLS, PARTITIONS AND SLAB, SLEEVES SIZED AT LEAST 1 INCH LARGER THAN OD OF PIPE.

SLEEVES ARE REQUIRED FOR PIPING PASSING THROUGH FIRE-RATED WALLS CONSTRUCTED OF METAL STUDS AND GYPSUM WALLBOARD.

TERMINATE SLEEVES THROUGH WALLS, PARTITIONS AND CEILINGS FLUSH WITH FINISHED SURFACES: THROUGH SLABS 1/2" ABOVE FLOOR FINISH IN HABITABLE SPACES AND 2" ABOVE ROUGH FINISH IN PIPE SPACES AND OTHER UNFINISHED AREAS.

SET SLEEVES IN PLACE BEFORE PLACING CONCRETE, OR SECURELY FASTEN AND GROUT IN PLACE WITH CONCRETE. EXERCISE CARE IN LOCATING AND SETTING OF SLEEVES TO ASSURE ACCURATE ALIGNMENT. IN ABSENCE OF SLEEVES, USE CORE DRILLED HOLES AND PROVIDE CURBS TO PREVENT PASSAGE OF WATER.

FILL VOID SPACES BETWEEN PIPING AND PIPE SLEEVES WITH PENETRATION SEAL, OR APPROVED ELASTOMERIC CAULKING MATERIALS.

ESCUTCHEON INSTALLATION

PROVIDE ESCUTCHEONS ON PIPE PROTRUSIONS AT WALLS, PARTITIONS, CEILING AND FLOORS. ESCUTCHEONS SHALL FIT SNUGLY AROUND PIPING AND COVER SURFACE OPENING.

FIRE STOPPING

FILL VOID SPACE BETWEEN PIPING AND PIPING SLEEVES WITH DOW CORNING 3 - 6548 RTV SILICONE FOAM, OR WITH FIBROUS GLASS SEALED WITH FIRE TESTED AND APPROVED ELASTOMERIC CAULKING MATERIALS.

INSTALLATION - GENERAL

PREPARATION: CUT PIPE AND TUBING ENDS SQUARE, REMOVE BURRS AND REAM TO ORIGINAL BORE. CLEAN JOINT SURFACES PRIOR TO ASSEMBLY. WIPE OFF EXCESS JOINING COMPOUNDS AND FLUX RESIDUE.

SCREWED: USE AMERICAN STANDARD TAPER PIPE THREADS CUT SHARP AND TRUE AND SUITABLE FOR NORMAL ENGAGEMENT. SCREW THREADED ITEMS UP CLOSE TO SHOULDERS WITH NOT MORE THAN THREE INCOMPLETE THREADS EXPOSED. DO NOT USE LAMP WICK, CORD, WOOL OR OTHER "WICKING" MATERIALS. REPAIR LEAKS WITH NEW MATERIALS, DO NOT PEEN OR CAULK. "TEFLON" PIPE JOINT TAPE OR JOINT COMPOUNDS COMPOSED OF RED LEAD AND GRAPHITE GROUND IN LINSEED OIL WILL BE PERMITTED, APPLIED TO MALE THREADS ONLY.

SOLDER: MAKE UP JOINTS WITH 95-5 TIN-ANTIMONY WIRE SOLDER AND NON-CORROSIVE FLUX. DO NOT USE 50-50 OR OTHER TIN-LEAD SOLDERS.

MECHANICAL COUPLINGS: USE MANUFACTURER'S MATERIALS AND METHODS.

PIPE HANGER AND SUPPORT INSTALLATION

REFER TO MSS-SP-58; STANDARD FOR PIPE HANGERS AND SUPPORTS.

SUPPORT, ANCHOR AND GUIDE PIPING SYSTEMS TO WITHSTAND STATIC AND DYNAMIC LOAD CONDITIONS, TO ALLOW FOR EXPANSION AND CONTRACTION; TO PREVENT VIBRATION AND SWAYING; TO MAINTAIN ALIGNMENT AND MINIMIZE VERTICAL DEFLECTION.

DO NOT SUPPORT PIPING FROM OTHER PIPING OR DUCTWORK. DO NOT USE WIRE, TAPE, METAL BAND, OR OTHER MAKE-SHIFT DEVICES AS MEANS OF SUPPORT OR ATTACHMENT.

TESTING

GENERAL: TEST PLUMBING SYSTEMS TO SATISFACTION OF BUILDING OFFICIAL. DO NOT CLOSE IN, CONCEAL, OR COVER UP ANY WORK UNTIL IT HAS BEEN TESTED, INSPECTED, AND APPROVED BY ENGINEER AND LOCAL OFFICIALS.

FLUSH PIPING, PRIOR TO TESTING, TO REMOVE FOREIGN MATERIAL WHICH MAY HAVE ENTERED DURING COURSE OF INSTALLATION. CLEAN FILTERS AND STRAINERS AFTER FLUSHING.

PLUMBING MATERIALS

DOMESTIC HOT AND COLD WATER: PIPING - HARD DRAWN COPPER TUBING TYPE "L" WITH SOLDERED JOINTS.

DOMESTIC WATER PIPING UNDERGROUND - SOFT COPPER TUBE, ASTM B 88 TYPE K OR L AND WROUGHT - COPPER FITTINGS SOLDER-JOINT, ASME B16.18 OR BRONZE FLANGE TYPE FITTINGS ASME B16.22. PE PIPING ASTM D 2239, AND PR FITTINGS MOLDED ASTM D 3350.

NATURAL GAS PIPING 2" & UNDER SHALL BE SCHEDULE 40 BLACK PIPE, ASTM A53 WITH THREADED BLACK MALLEABLE - IRON FITTINGS ASME B16.3 150# CLASS STANDARD PATTERN.

NATURAL GAS PIPING 2-1/2" & LARGER SHALL BE SCHEDULE 40 BLACK PIPE, ASTM A53 WITH BUTT WELDED OR SOCKET WELDED WROUGHT BLACK STEEL FITTINGS ASTM A234 150# CLASS STANDARD PATTERN. ALL GAS PIPING 2-1/2" & LARGER SHALL BE WELDED IN ACCORDANCE WITH N.F.P.A. 54, A.G.A. & N.B.F.U.

APPLIANCE FLEXIBLE CONNECTION - INDOOR, FIXED - APPLIANCE FLEX CONNECTORS SHALL COMPLY WITH ANSI Z21.24 AND MOVABLE - APPLIANCE FLEX CONNECTORS SHALL COMPLY WITH ANSI Z21.69. OUTDOOR, APPLIANCE FLEX CONNECTORS SHALL COMPLY WITH ANSI Z21.75.

VALVES

CHECK VALVE: ALL BRONZE, HORIZONTAL SWING, REGRINDING TYPE, Y PATTERN, RENEWABLE SEAT AND DISC, 200 PSI NON-SHOCK COLD WATER BY NIBCO OR EQUAL.

BALL VALVE - 2" AND SMALLER: LEAD FREE BRONZE BODY AND BALL, TEFLON SEATS AND SEALS, LEVER HANDLE, 400 PSI WOG, NIBCO, APOLLO OR EQUAL.

GAS VALVE - 2" AND SMALLER: BRONZE PLUG VALVE, TWO-PIECE FULL PORT BRONZE BALL VALVE WITH BRONZE TRIM OR 1-PIECE FULL PORT BRONZE BALL VALVE WITH BRONZE TRIM. APOLLO, MILWAUKEE, OR EQUAL.

GAS VALVE - 2-1/2" AND LARGER: FLANGED BRONZE PLUG VALVE OR CAST-IRON, NON-LUBRICATED PLUG VALVE. HOMESTEAD, McDONALD, OR EQUAL.

PIPE HANGER MATERIAL STANDARDS

- BOLTING - ASTM A307, GRADE A
CAST IRON - ASTM A48, GRADE 30
FORGOINGS - A51, A521, GRADE CA
MALLEABLE IRON - ASTM A47, ASTM A197
STEEL - ASTM A36, ASTM A569, ASTM A570
STEEL PIPE - ASTM A53, ASTM A120
STEEL ROD - ASTM A36, ASTM A575

PIPE HANGER COMPONENTS

COMPONENTS: DESIGNED WITH MINIMUM SAFETY FACTOR OF 5; OF ALL METAL CONSTRUCTION; ASSEMBLED WITH CORROSION RESISTANT SQUARE HEAD MACHINE BOLTS AND SQUARE OR HEX HEAD NUTS, STEEL WASHERS; IN SUCH A MANNER AS TO PREVENT SELF-DISENGAGEMENT.

PIPE ATTACHMENTS: CAPABLE OF VERTICAL ADJUSTMENT UNDER LOAD, SHAPED TO OD IF PIPING, SIZED ALLOW CONTINUOUS INSULATION.

SURFACE FINISH - GENERALLY: CORROSION RESISTANT PAINT COATING.

SURFACE FINISH - UNINSULATED COPPER AND BRASS PIPING; COPPER-PLATED OR PLASTIC COATED.

SURFACE FINISH - CHROME PLATED PIPING: CHROME PLATED.

ESCUTCHEONS

PAINTED SURFACES: PRIME COATED SHEET METAL

ACOUSTICAL SURFACES: FACTORY PAINTED TO MATCH SURFACE SHEET STEEL

PREFINISHED SURFACES: CHROME-PLATED CAST BRASS

PIPE SLEEVES, SEALS AND ADAPTERS

INTERIOR PARTITIONS: #20 GAUGE GALVANIZED STEEL, LOCK SEAM JOINT

PIPE INSULATION

PIPE: SECTIONAL PREMOLED FIBROUS GLASS, FACTORY APPLIED FLAME RETARDANT VAPOR BARRIER JACKET.

MINIMUM DENSITY: 3.5 LBS PCF
MAXIMUM K-FACTOR: 0.25 AT 75 DEGREES FAHRENHEIT, MEAN.

VALVES AND FITTINGS: PREMOLED, FIBROUS GLASS FITTING COVERS, OR FABRICATED MITERED SEGMENTS OF PIPE INSULATION, FINISHED WITH 20-20 COUNT GLASS CLOT EMBEDDED IN SURFACE COATING. NO STAPLES, TACKS OR BANDS.

SURFACE FINISH - EXPOSED: UNIFORM COAT OF SURFACE COATING
SURFACE FINISH - CONCEALED: NONE REQUIRED.

WATER PIPING SPECIALTIES

SHOCK ABSORBER: SA: ALL COPPER, MECHANICAL-PNEUMATIC TYPE, HERMETICALLY SEALED BELLOW, THREADED INLET; 150 PSI WWP. SIZE AND PLACEMENT DETERMINATION: PDI-WH 201 AND A.S.S.E. STANDARD 1010.

PROFESSIONAL SEAL

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MEP ENGINEER



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ENVIRONMENTAL CONSULTANT



DESIGNED BY: JOHN LIBBY
CT ASBESTOS PROJECT DESIGNER LICENSE #19
CT LEAD PLANNER/PROJECT DESIGNER LICENSE #986

ISSUED FOR BIDDING
MARCH 12, 2024

MARK | DATE | DESCRIPTION

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SHEET TITLE
PLUMBING SPECIFICATIONS

P.201

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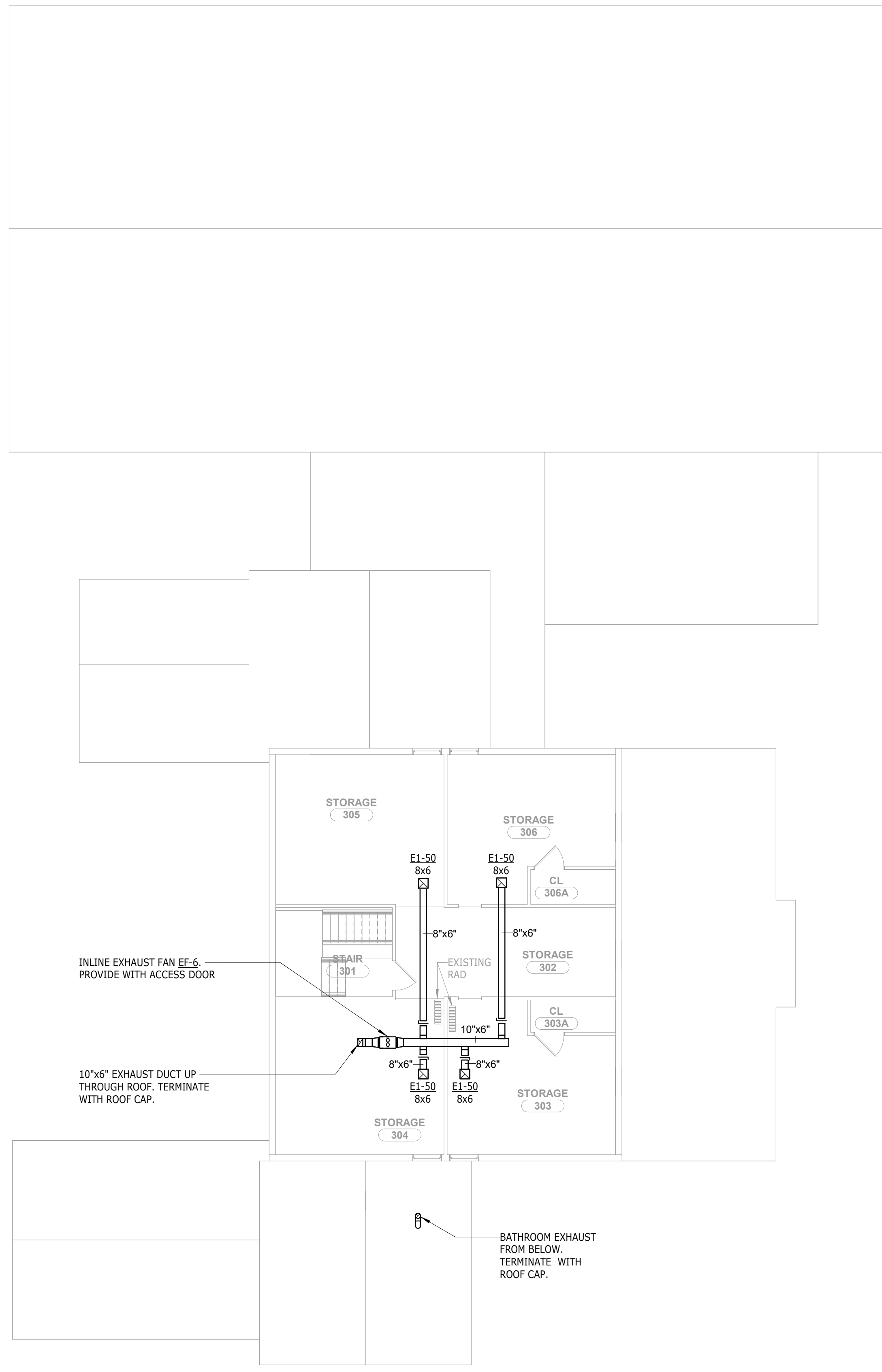
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C

B

A



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

PROFESSIONAL SEAL

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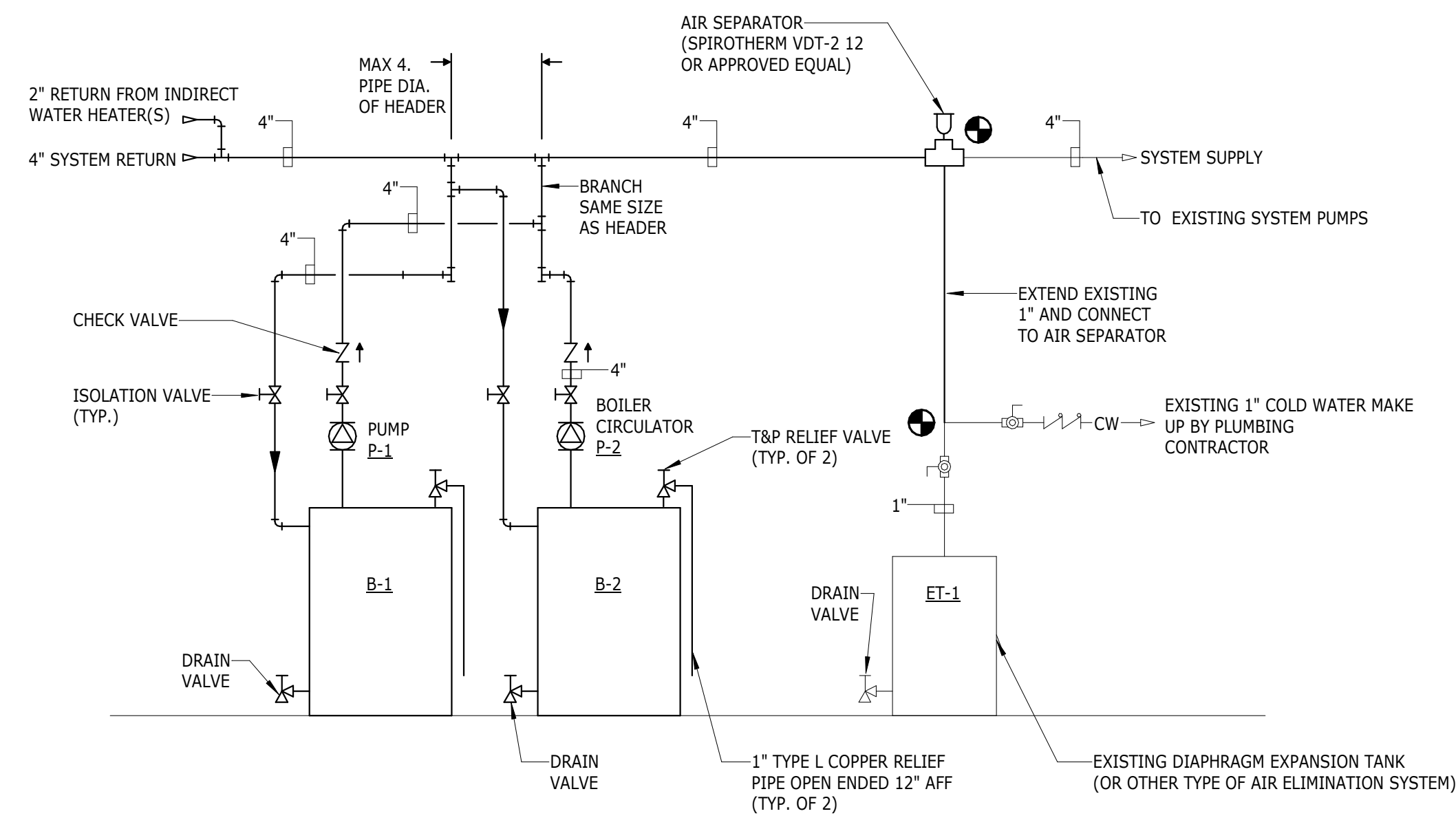
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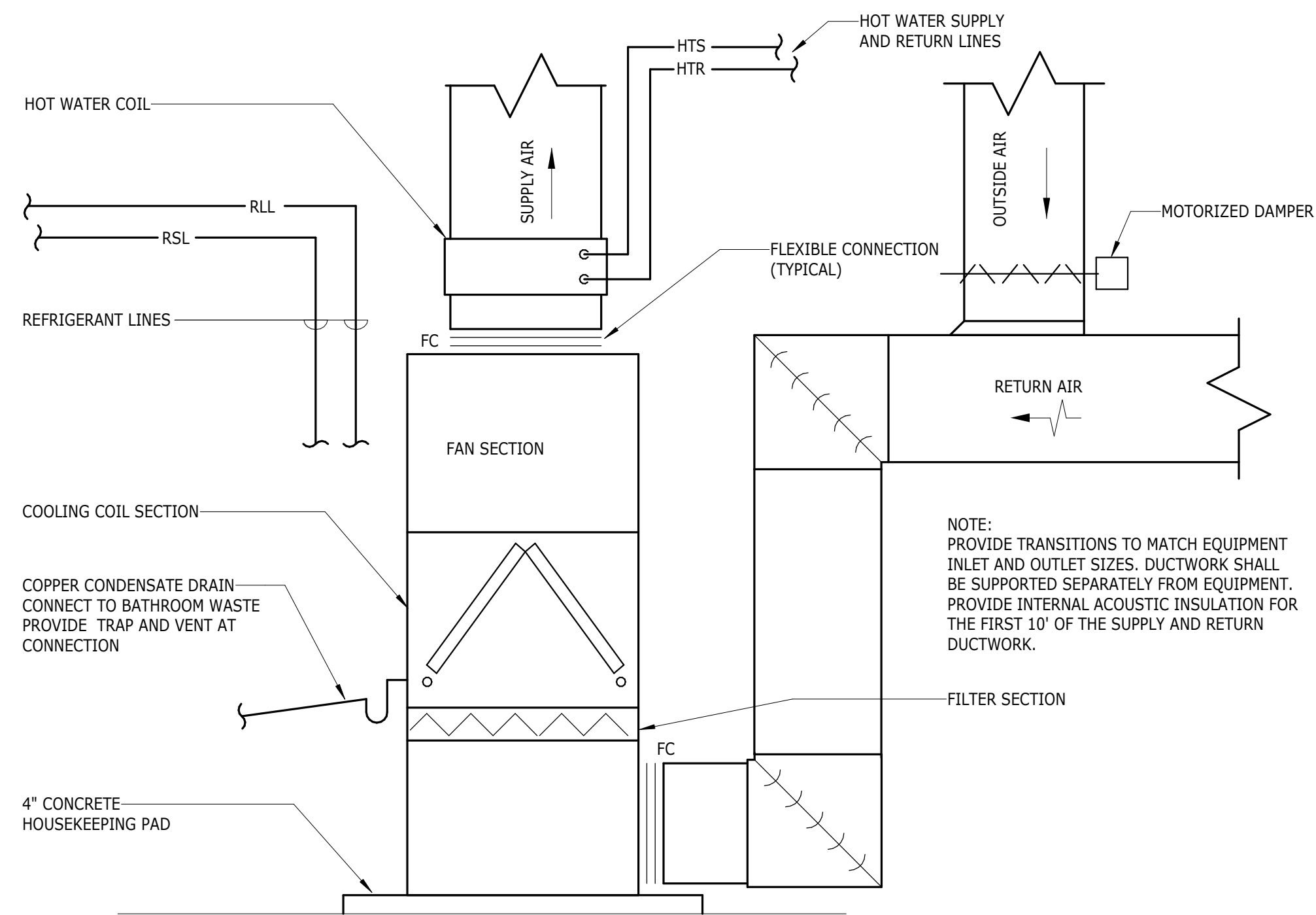
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SHEET TITLE
THIRD FLOOR MECHANICAL PLAN

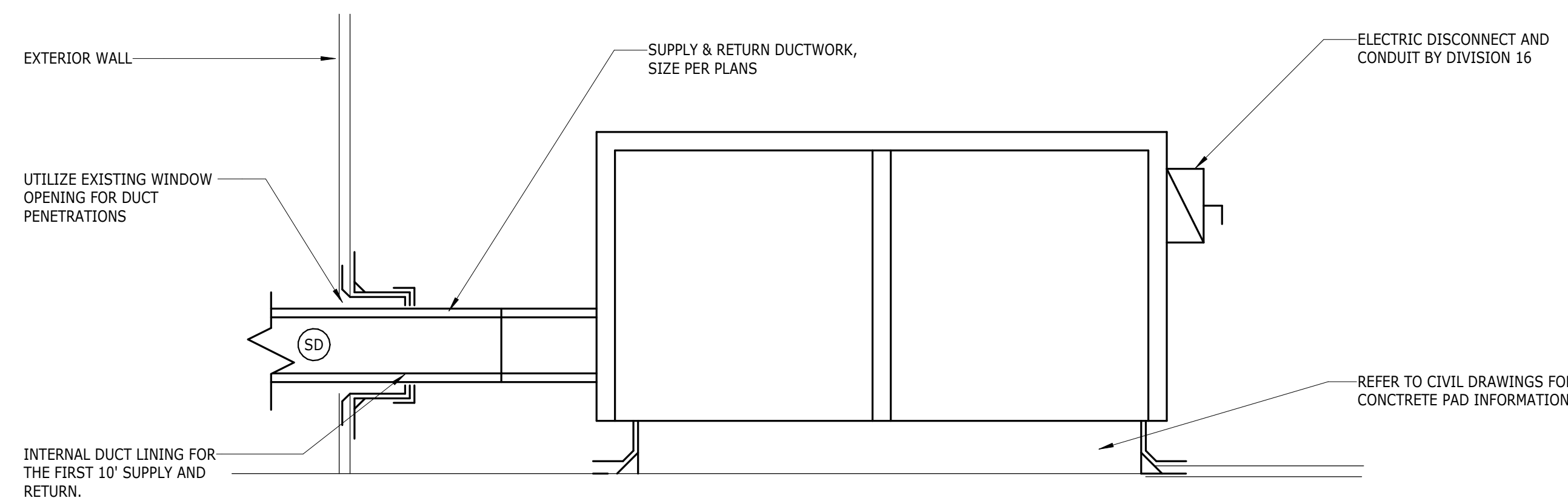
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BOILER PIPING RISER DIAGRAM
SCALE: N.T.S.



VERTICAL AIR HANDLING UNIT DETAIL
SCALE: N.T.S.



HORIZONTAL AIR HANDLING UNIT DETAIL
SCALE: N.T.S.

MECHANICAL GENERAL NOTES

1. THESE GENERAL NOTES ARE APPLICABLE TO ALL MECHANICAL DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL INTENT OF WORK. SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF THE OTHER TRADES AS PART OF THIS CONTRACT FOR ADDITIONAL WORK REQUIRED AND OR COORDINATION OF HIS WORK FOR OPERATIONS OR CONNECTIONS TO OTHER SYSTEMS.

MECHANICAL DEMOLITION NOTES

1. THE MECHANICAL CONTRACTOR SHALL REMOVE ALL MECHANICAL EQUIPMENT, ACCESSORIES, CONTROLS AND ASSOCIATED PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
2. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED SHALL REMAIN.
3. THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.
4. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
5. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER, CM, AND OR GENERAL CONTRACTOR ANY AND ALL PHASING OF THE MECHANICAL DEMOLITION WORK IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNERS OCCUPANCY REQUIREMENTS.
6. ANY MECHANICAL EQUIPMENT TO BE REMOVED AND REUSED OR TURNED OVER TO THE OWNER, AT OWNERS REQUEST, OR AS INDICATED ON THE DRAWINGS SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE.
7. THE MECHANICAL CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
8. ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER IN ADVANCE PRIOR TO COMMENCEMENT OF ANY WORK.
9. THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMB	AMBIENT
AMP	AMPERE (AMP, AMPS)
BAL	BALANCE
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CLG	COOLING
CU	CONDENSING UNIT
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
EX.	EXISTING
EXH	EXHAUST
°F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FPM	FEET PER MINUTE
FT	FEET
FTR	FIN TUBE RADIATION
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H-1	HUMIDIFIER
HWC	HOT WATER COIL
HP	HORSE POWER
HTR	HEATING RETURN (HOT WATER)
HTS	HEATING SUPPLY (HOT WATER)
HTG	HEATING
HZ	FREQUENCY
IN.	INCH
IN. WG	INCHES WATER GAUGE
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LBS/HR	POUNDS PER HOUR
LWT	LEAVING WATER TEMPERATURE
MBH	BTU PER HOUR (THOUSAND)
N.T.S.	NOT TO SCALE
O.A.	OUTSIDE AIR
OED	OPEN END DUCT
P-1	PUMP
PD	PRESSURE DROP
PH	PHASE
PSI	POUNDS PER SQUARE INCH
RDG	REGISTER DIFFUSER GRILLE
RET	RETURN
RH	RELATIVE HUMIDITY
RPM	ROTATIONS PER MINUTE
SP-1	SUMP PUMP
SQ.FT.	SQUARE FEET
SUP	SUPPLY
T&P	TEMPERATURE & PRESSURE RELIEF VALVE
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS OTHERWISE NOTED
VD	VOLUME DAMPER
VIF	VERIFY IN FIELD
WB	WET BULB
WP	WORKING PRESSURE
ZC	ZONE CONTROLLER
ZV	ZONE VALVE

MECHANICAL LEGEND

	DIFFUSER/GRILLE - SUPPLY
	GRILLE/REGISTER - RETURN
	GRILLE/REGISTER - EXHAUST
	SIDEWALL GRILLE/REGISTER - SUPPLY/RETURN/EXHAUST
	AIR FLOW DIRECTION INDICATOR - SUPPLY
	AIR FLOW DIRECTION INDICATOR - RETURN
	DUCT RISER - SUPPLY/COMBUSTION AIR
	DUCT DROP - SUPPLY/COMBUSTION AIR
	DUCT RISER - RETURN/EXHAUST
	DUCT DROP - RETURN/EXHAUST
	EXHAUST FAN
	THERMOSTAT
	VOLUME DAMPER
	MOTORIZED DAMPER
	REDUCER
	HTS
	HTR
	RLL/RSL
	CD
	DIRECTION OF FLOW
	PIPE DOWN
	PIPE DROP
	PIPE RISE
	PLUGGED OR CAPPED PIPE
	EXISTING TO BE REMOVED
	CONNECT TO EXISTING

PROFESSIONAL SEAL

OWNER



ARCHITECT



MEP ENGINEER



ENVIRONMENTAL CONSULTANT



ISSUED FOR BIDDING
MARCH 12, 2024

MARK	DATE	DESCRIPTION
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SHEET TITLE
**MECHANICAL NOTES,
LEGEND, & DETAILS**

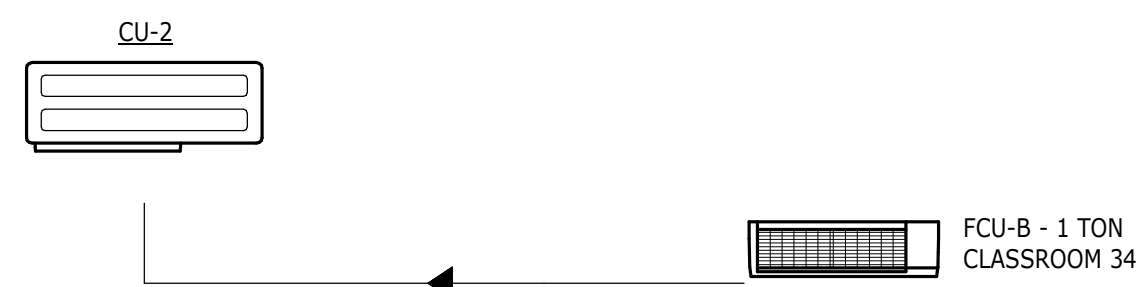
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VRF CONDENSING UNIT SCHEDULE								
SYMBOL	MANUFACTURER MODEL NUMBER	TYPE	CORRECTED COOLING CAPACITY MBH	CORRECTED HEATING CAPACITY MBH	ELECTRICAL DATA MCA	ELECTRICAL DATA VOLT-PH	TONS CONNECTED LOAD	NOTES
CU-2	DAIKIN RXL12WMVJU9	HEAT PUMP	10.6	13.4	12.2	208-1	1.0	1,2
CU-3	DAIKIN RXL09WMVJU9	HEAT PUMP	9.0	10.9	8.7	208-1	0.75	1,2
CU-4	DAIKIN 3MXL24WMVJU	HEAT PUMP	24.0	24.0	20.1	208-1	2.0	1,2
CU-5	DAIKIN RXL09WMVJU9	HEAT PUMP	9.0	10.9	8.7	208-1	0.75	1,2
CU-6	DAIKIN RX12WMVJU9	HEAT PUMP	10.8	13.5		208-1	1.0	1,2
CU-7	DAIKIN 2MXL19WMVJU9	HEAT PUMP	17.8	18.5	17.0	208-1	1.5	1,2
CU-8	DAIKIN 3MXL24WMVJU	HEAT PUMP	24.0	24.0	20.1	208-1	2.0	1,2

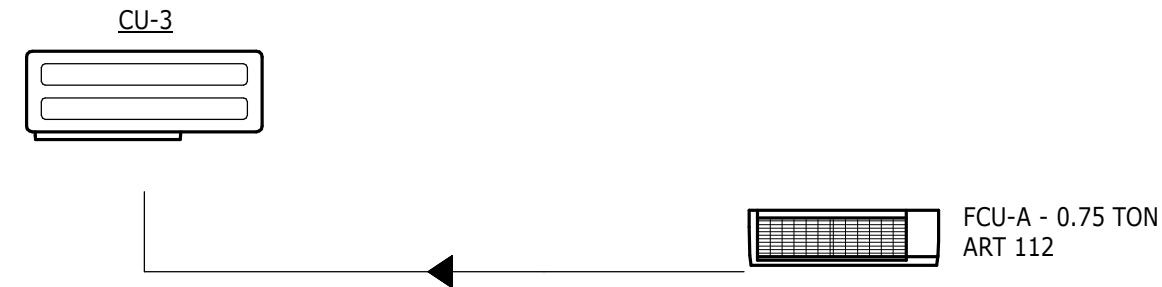
NOTES:
 1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80°/67° (DB/WB), OUTDOOR OF 95°F.
 2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70° (DB), OUTDOOR OF -4°F (WB).

VARIABLE REFRIGERANT FLOW INDOOR UNIT SCHEDULE															
GENERAL DATA					FAN DATA			HEATING DATA	COOLING DATA		ELECTRICAL (NOT INCLUDING ELECTRIC HEAT)				NOTES
SYMBOL	MANUFACTURER MODEL NUMBER	AREA SERVED	TYPE/ INSTALLED	REF PIPE LIQUID/SUCTION	AIR FLOW TOTAL CFM	ESP IN. W.C. SWITCH SETTING	SPEED SETTING	HTG CAP FULL LOAD MBH	TOTAL CLG FULL LOAD MBH	SENS CLG FULL LOAD MBH	GENERAL V/Hz/PH	MIN CIRC AMPS	MAX FUSE SIZE		
FCU-A	DAIKIN FTX09WMVJU9	SEE PLANS	WALL MOUNTED	1/4" / 3/8"	417	0	HIGH	10.9	9.0	6.75	208/60/1	0.4 A	15 A	1,2,3	
FCU-B	DAIKIN FTX12WMVJU9	SEE PLANS	WALL MOUNTED	1/4" / 3/8"	434	0	HIGH	13.4	10.6	7.95	208/60/1	0.4 A	15 A	1,2,3	
FCU-C	DAIKIN FTX09WMVJU9	SEE PLANS	WALL MOUNTED	1/4" / 3/8"	420	0	HIGH	10.9	9.0	6.75	208/60/1	0.4 A	15 A	1,2,3	
FCU-D	DAIKIN FTX12WMVJU9	SEE PLANS	WALL MOUNTED	1/4" / 3/8"	438	0	HIGH	13.4	10.6	7.95	208/60/1	0.4 A	15 A	1,2,3	
FCU-E	DAIKIN FFQ12W2VJU9	KITCHEN 105	4-WAY CASSETTE CEILING RECESSED	1/4" / 3/8"	427	0	HIGH	13.4	10.6	7.95	208/60/1	0.6 A	15 A	1,2,3	

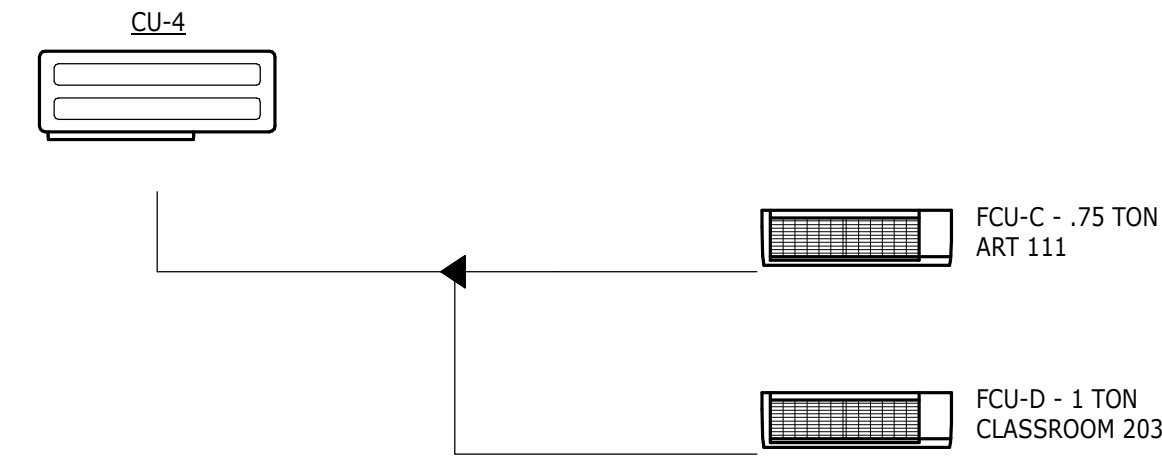
NOTES:
 1. R410A REFRIGERANT.
 2. COOLING CAPACITY RATING AT 95°F, AMBIENT HEATING CAPACITY RATING AT -4°F.
 3. PROVIDE CONDENSATE PIPING TO OUTDOORS OR INDIRECT WASTE.



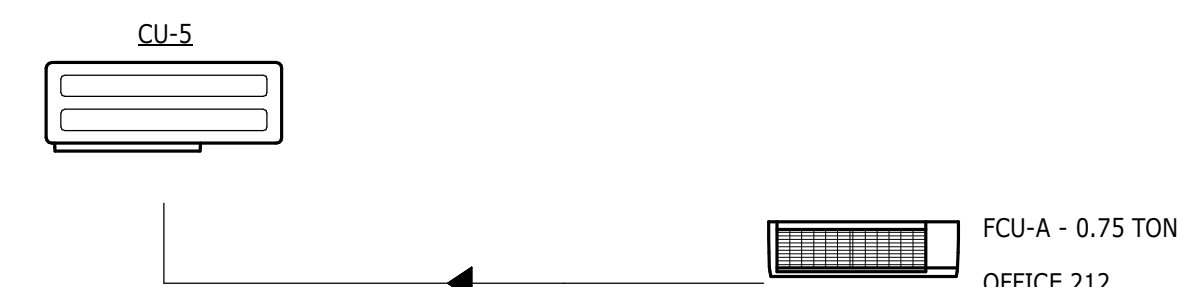
CU-2 VRF PIPING DIAGRAM
SCALE: N.T.S.



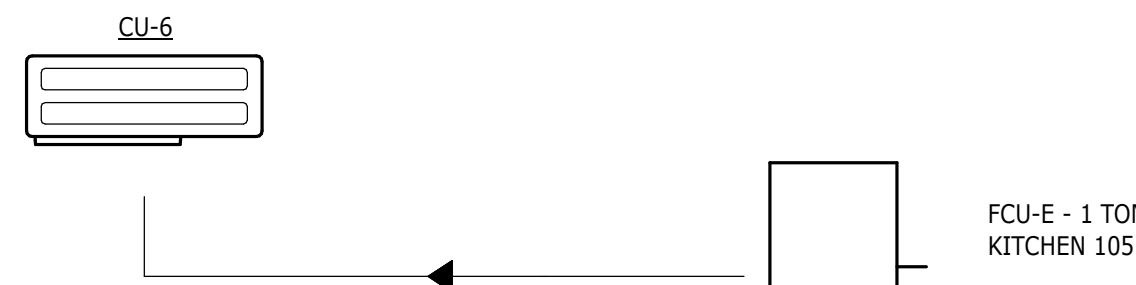
CU-3 VRF PIPING DIAGRAM
SCALE: N.T.S.



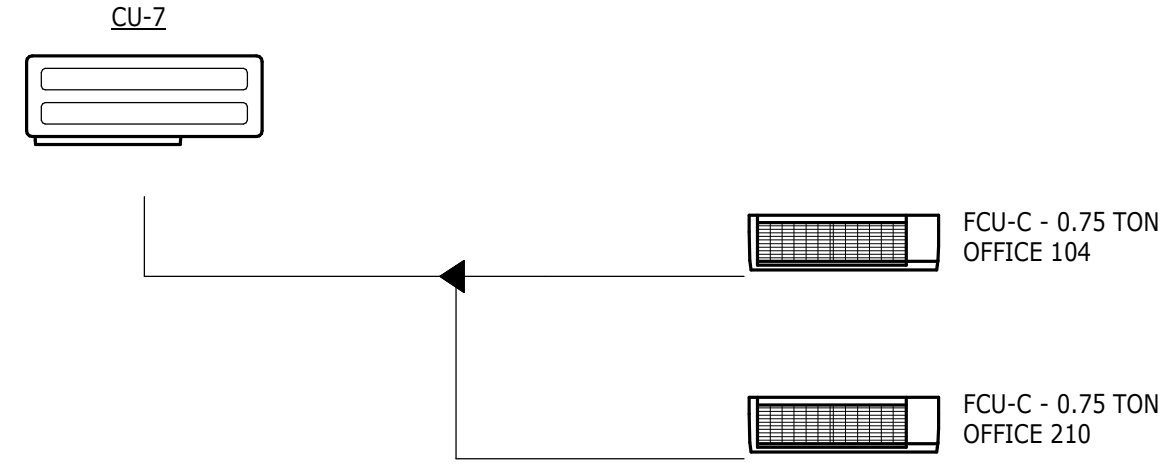
CU-4 VRF PIPING DIAGRAM
SCALE: N.T.S.



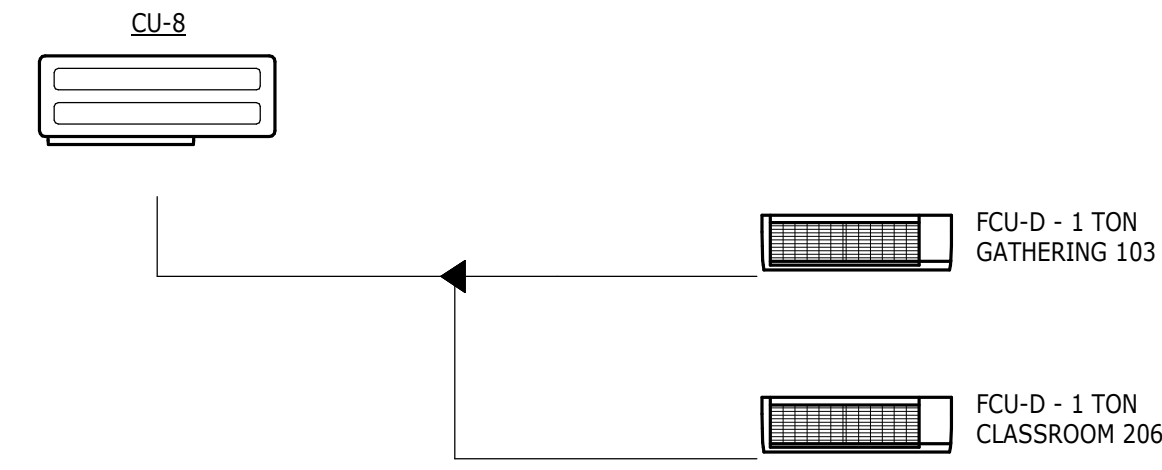
CU-5 VRF PIPING DIAGRAM
SCALE: N.T.S.



CU-6 VRF PIPING DIAGRAM
SCALE: N.T.S.



CU-7 VRF PIPING DIAGRAM
SCALE: N.T.S.



CU-8 VRF PIPING DIAGRAM
SCALE: N.T.S.

PROFESSIONAL SEAL

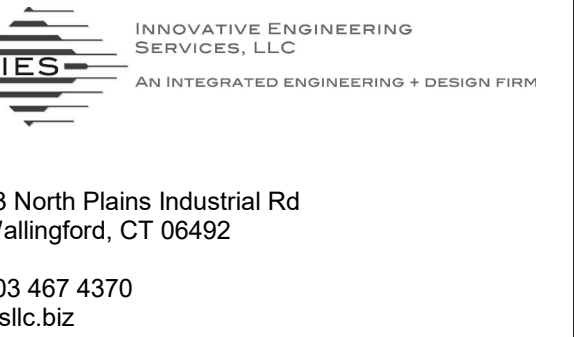
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ARCHITECT



MEP ENGINEER



ENVIRONMENTAL CONSULTANT



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MARCH 12, 2024

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SHEET TITLE
MECHANICAL VRF SCHEDULES & DIAGRAMS

M.203

D

C

B

A

PANEL P1 SECTION 1																
RATING: 240/120V, 1 PHASE, 3 WIRE MAIN BUS: <input checked="" type="checkbox"/> CU <input type="checkbox"/> AL 600A MAIN BUS MAIN DEVICE: MLO WITH FEED THRU LUGS INTERRUPTING RATING: 42KAIC						LOCATION: BASEMENT ELECTRICAL ROOM MOUNTING: <input type="checkbox"/> FLUSH <input checked="" type="checkbox"/> SURFACE TRIM: <input checked="" type="checkbox"/> SINGLE DOOR <input type="checkbox"/> DOOR-IN-DOOR										
CKT. NO.	CKT. BKR.		DESCRIPTION	WIRE & CONDUIT	KVA	A		B		KVA	WIRE & CONDUIT	DESCRIPTION	CKT. BKR.		CKT. NO.	
	TRIP AMPS	POLES											POLES	TRIP AMPS		
1	20	1	BOILER B-1	3/4"C, 2#12, #12G	0.9		1.8			0.9	3/4"C, 2#12, #12G	BOILER B-2	1	20	2	
3	20	2	AHU-1	3/4"C, 2#12, #12G	1.0				1.4	0.4	-	CONTROL PANEL	1	20	4	
5	20	1	SPARE	-	0.0					1.7	3/4"C, 2#10, #10G	CU-4	2	20	6	
7	50	2	AHU-2	1 1/4"C, 2#3, #8G	7.0		8.7			1.7	-	-	-	-	8	
9	-	-	-	-	7.0					1.7	3/4"C, 2#10, #10G	CU-2	2	20	10	
11	20	2	CU-1	3/4"C, 2#10, #10G	1.7					1.7	-	-	-	-	12	
13	-	-	-	-	1.7		3.4			1.7	3/4"C, 2#10, #10G	CU-5	2	20	14	
15	20	2	CU-3	3/4"C, 2#10, #10G	1.7				3.4	1.7	-	-	-	-	16	
17	-	-	-	-	1.7					1.7	3/4"C, 2#10, #10G	CU-6	-	-	18	
19	20	2	CU-7	3/4"C, 2#10, #10G	1.7		3.4			1.7	-	-	-	-	20	
21	-	-	-	-	1.7				3.4	1.7	3/4"C, 2#10, #10G	CU-8	2	20	22	
23	20	1	EXH. FAN EF-1	3/4"C, 2#12, #12G	0.2					1.7	-	-	-	-	24	
25	20	1	EXH. FAN EF-2	3/4"C, 2#12, #12G	0.2		0.3			0.1	3/4"C, 2#12, #12G	RECEPTACLE - BASEMENT	1	20	26	
27	20	1	EXH. FAN EF-3	3/4"C, 2#12, #12G	0.1				0.4	0.3	3/4"C, 2#12, #12G	RECEPTACLE - BASEMENT	1	20	28	
29	20	1	EXH. FAN EF-4	3/4"C, 2#12, #12G	0.1					0.1	3/4"C, 2#12, #12G	RECEPTACLE - EXTERIOR	1	20	30	
31	20	1	EXH. FAN EF-5	3/4"C, 2#12, #12G	0.1		0.2			6.0	SEE POWER RISER	PHASE CONVERTER	2	70	32	
33	20	1	EXH. FAN EF-6	3/4"C, 2#12, #12G	0.1				0.1	6.0	-	-	-	-	34	
35	100	2	EXISTING PANEL	MATCH EXISTING FEEDER	12.0					1.0	3/4"C, 3#6, #10G	EXISTING RANGE	2	50	36	
37	-	-	-	-	12.0		13.0			1.0	-	-	-	-	38	
39	100	2	EXISTING PANEL	MATCH EXISTING FEEDER	9.6				15.4	5.8	MATCH EXISTING FEEDER	EXISTING SUBPANEL	2	60	40	
41	-	-	-	-	9.6					5.8	-	-	-	-	42	
TOTALS PER PHASE							30.8		32.8							
TOTALS SECTION 1							33.6									
TOTALS SECTION 2							7.3									
GRAND TOTAL (2-SECT.)							40.9									

PANEL P1 SECTION 2																
RATING: 240/120V, 1 PHASE, 3 WIRE MAIN BUS: <input checked="" type="checkbox"/> CU <input type="checkbox"/> AL 600A MAIN BUS MAIN DEVICE: MLO INTERRUPTING RATING: 42KAIC						LOCATION: BASEMENT ELECTRICAL ROOM MOUNTING: <input type="checkbox"/> FLUSH <input checked="" type="checkbox"/> SURFACE TRIM: <input checked="" type="checkbox"/> SINGLE DOOR <input type="checkbox"/> DOOR-IN-DOOR										
CKT. NO.	CKT. BKR.		DESCRIPTION	WIRE & CONDUIT	KVA	A		B		KVA	WIRE & CONDUIT	DESCRIPTION	CKT. BKR.		CKT. NO.	
	TRIP AMPS	POLES											POLES	TRIP AMPS		
43	20	2	FCU'S - 1ST FLOOR	3/4"C, 3#12, #12G	0.1		0.3			0.2	3/4"C, 3#12, #12G	FCU'S - SECOND FLOOR	2	20	44	
45	-	-	-	-	0.1				0.3	0.2	-	-	-	-	46	
47	20	2	FCU-E 1ST FLOOR	3/4"C, 3#12, #12G	0.1					0.1	3/4"C, 2#12, #12G	RECEPTACLE - RECIRC PUMP	1	20	48	
49	-	-	-	-	0.1		0.2			0.1	3/4"C, 2#12, #12G	RECEPTACLE - RECIRC PUMP	1	20	50	
51	70	2	PHASE CONVERTER	SEE RISER DIAGRAM	6.0				6.1	0.1	3/4"C, 2#12, #12G	RECEPTACLE - EXTERIOR	1	20	52	
53	-	-	-	-	6.0					0.1	3/4"C, 2#12, #12G	RECEPTACLE - EXTERIOR	1	20	54	
55	20	1	RECEPTACLE - EXTERIOR	3/4"C, 2#12, #12G	0.1		0.2			0.1	3/4"C, 2#12, #12G	RECEPTACLE - EXTERIOR	1	20	56	
57	20	1	LIGHTING - EXTERIOR RAMP	3/4"C, 2#12, #12G	0.2				0.4	0.2	3/4"C, 2#12, #12G	LIGHTING - THIRD FLOOR	1	20	58	
59	20	1	SPARE	-	0.0					0.0	-	SPARE	1	20	60	
61	20	1	SPARE	-	0.0		0.0			0.0	-	SPARE	1	20	62	
63	20	1	SPARE	-	0.0				0.0	0.0	-	SPARE	1	20	64	
65	20	1	SPARE	-	0.0					0.0	-	SPARE	1	20	66	
67	20	1	SPARE	-	0.0		0.0			0.0	-	SPARE	1	20	68	
69	20	1	SPARE	-	0.0				0.0	0.0	-	SPARE	1	20	70	
71	20	1	SPARE	-	0.0					0.0	-	SPARE	1	20	72	
73	20	1	SPARE	-	0.0		0.0			0.0	-	SPARE	1	20	74	
75	20	1	SPARE	-	0.0				0.0	0.0	-	SPARE	1	20	76	
77	20	1	SPARE	-	0.0					0.0	-	SPARE	1	20	78	
79	20	1	SPARE	-	0.0		0.0			0.0	-	SPARE	1	20	80	
81	20	1	SPARE	-	0.0				0.0	0.0	-	SPARE	1	20	82	
83	20	1	SPARE	-	0.0					0.0	-	SPARE	1	20	84	
TOTALS PER PHASE							0.7		6.6							
GRAND TOTAL							7.3									

PROFESSIONAL SEAL

OWNER



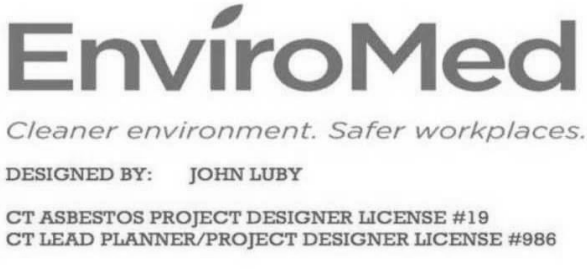
ARCHITECT



MEP ENGINEER



ENVIRONMENTAL CONSULTANT



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MARCH 12, 2024

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SHEET TITLE
ELECTRICAL SCHEDULES

E.202

ABBREVIATIONS

A	AMPERE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
C/B	CIRCUIT BREAKER
CLG	MOUNTED IN CEILING
CKT	CIRCUIT
DW	DISHWASHER
DWG	DRAWING
E/EM	EMERGENCY POWER CIRCUIT
ER	EXISTING TO REMAIN
FL	FLOOR
G	GROUND
GF	GROUNDING FAULT CIRCUIT INTERRUPTER
JB	JUNCTION BOX
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
P	POLE
PH	PHASE
RR	TO BE REMOVEVD AND RELOCATED
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WP	WEATHERPROOF

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
S _{TT}	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION
S _E	EMERGENCY POWER OFF SWITCH : SINGLE POLE TOGGLE SWITCH WITH RED "EMERGENCY OFF" WALL PLATE
S _{TTE}	MANUAL MOTOR STARTER WEITH THERMAL OVERLOAD PROTECTION, "E" WHERE SPECIFIED INDICATES EMERGENCY POWER OFF WITH RED "EMERGENCY OFF" WALL PLATE.
⊕ GF	GFCI DUPLEX RECEPTACLE
⊕ GF/WP	GFCI DUPLEX RECEPTACLE WITH WEATHERPROOF "WHILE-IN-USE" COVER.
⊕ USB	DUPLEX RECEPTACLE WITH (2) USB HOSPITAL GRADE: HUBBELL USB8300_ OR APPROVED EQUAL TAMPER PROOF: HUBBELL USB20X2_ OR APPROVED EQUAL
⚡	OUTLET TO SUIT EQUIPMENT (CONTRACTOR TO VERIFY)
▭	EXISTING PANELBOARD/LOAD CENTER
▬	120/240V PANEL
⊞	REVENUE METER
—	CONDUIT AND WIRE
→	HOMERUN TO PANELBOARD, NUMBER/LETTERS INDICATE CIRCUIT AND PANELBOARD TERMINATION UNLESS OTHERWISE NOTED
⊙	JUNCTION BOX
⊗	MOTOR
⊞	SAFETY DISCONNECT SWITCH
⊞	FUSIBLE SAFETY DISCONNECT SWITCH
⊕	THERMAL LINK FOR EMERGENCY BOILER SHUT DOWN
----	SWITCHED WIRE

LIGHT FIXTURE SCHEDULE

LIGHTING FIXTURE TYPE A	
MANUFACTURER	SIGMA
CATALOG NO.	SIG23-T-PLD-III-48LED-700MA-30K-120-PT23-RAL-9005-T
FIXTURE DESCRIPTION	TENON MOUNTED, 120V, LED
VOLTAGE	120
LAMP & DESIGNATION	EXTERIOR RAMP
DRIVER	LED
MOUNTING	TENON
HOUSING	ALUMINUM
LENS/LOUVER	ARCLRIC
REMARKS	XXXXX
LIGHTING FIXTURE TYPE B	
MANUFACTURER	LITHONIA LIGHTING
CATALOG NO.	LBL4-4800LM-80CRI-35K-MINI-ZT-MVOLT-LSXRHL
FIXTURE DESCRIPTION	WRAPAROUND
VOLTAGE	120
LAMP & DESIGNATION	THIRD FLOOR
DRIVER	HIGH EFFICIENCY
MOUNTING	SURFACE
HOUSING	STEEL
LENS/LOUVER	CURVED PRISMATIC DIFFUSER
REMARKS	WITH BUILT IN OCCUPANCY SENSOR

GENERAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED FOR A COMPLETE, FULLY OPERABLE INSTALLATION. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST APPROVED ISSUE OF THE NFPA 70, NATIONAL ELECTRIC CODE (NEC) AND APPLICABLE LOCAL CODES.
- PRIOR TO SUBMISSION OF NIDS GIVE WRITTEN NOTICE KTO ARCHITECT AND ENGINEER OF ANY MATERIAL OR APPRATUS THAT IS INADEQUATE, UNSUITABLE FOR THE USE, IN VIOLATION OF LAWS, ORDINANCES, RULES, CODE OR ANY REGULATIONS OF AUTHORITIES HAVING JURISDICTION OR ANY NECESSARY ITEMS OF WORK THAT HAS BEEN OMITTED. ONTATOE AFFIRMS THAT ABSENT SUCH NOTICE, ALL SYSTEMS WILL FUNCTION SATFACTORILY WITHOUT ADDITIONAL EXTRA CCOMPENSATION.
- THE ELECTRICAL CONTACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND ADHERE TO CONTENTS OF THE BID DOCUMENTS. ANY DEVIATIONS FROM THE INFORMASTION PROVIDED IN THE DOCUMENTS MUST BE LISTED IN WRITING. INNOVATIVE ENGINEERING SERVICES, LLC HAS THE RIGHT TO BE COMPENSATED FOR REVIEW OF VALUE ENGINEERING OR SUBSTITUTED MATERIALS AND EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED TO THEIR ORIGINAL CONDITION. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING, PAINTING, CLEAN-UP, ELECTRICAL DEBRIS REMOVAL AND GENERAL COORDINATION OF THE WORK EFFORT AS REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL ITEMS OF WORK.
- THE DRAWINGS SHOW THE GENERAL LAYOUT AND SOME OF THE DETAIL, BUT THEY DO NOT SHOW EVERY FITTING, BEND, ...ETC. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SUCH MATERIALS TO MAKE A COMPLETE INSTALLATION.
- ALL PART NUMBERS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THEY ARE NOT TO BE CONSIDERED THE COMPLETE SPECIFICATION OF THE PRODUCT. THE PART NUMBER AND DESCRIPTION WILL BE THE COMPLETE SPECIFICATION. IN THE EVENT OF A DISCREPANCY BETWEEN THE TWQ, THE MORE STRINGENT, MORE COSTLY FEATURE/PERFORMANCE WILL BE REQUIRED.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING OF ALL PHASES OF THE WORK AND TO DEMONSTRATE TO OWNER THAT THE EQUIPMENT IS IN FULL OPERATING ORDER.
- DO NOT SCALE DRAWINGS; ACTUAL FIELD MEASUREMENTS AND DIMENSIONS TAKE PRECEDENCE IN ALL CASES.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT, AIA DOCUMENT A 201, LATEST EDITION.
- ELECTRICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND OR REQUIREMENTS FOR PROPER OPERATION AND MAINTENANCE.
- IN ADDITION TO THE REQUIREMENTS SHOWN FOR LOW VOLTAGE EQUIPMENT AND RACEWAYS, THE ELECTRICIAN SHALL CARRY AN ALLOWANCE FOR FINAL COORDINATION OF ALL RACEWAYS AND SLEEVES REQUIRED TO FACILITATE THE LOW VOLTAGE CONSULTANT WORK.
- ELECTRICAL CONTRACTOR SHALL WARRANT AND GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
- ELECTRICAL CONTRACTOR SHALL GIVE OWNER 10 DAYS ADVANCE NOTICE OF SHUTDOWNS, OR AS DIRECTED BY THE OWNER. SHUTDOWNS TO BE KEPT TO A MINIMUM. AT NO TIME SHALL THE BUILDING/SPACE BE LEFT WITHOUT COMMERCIAL POWER IN FULL OPERATING ORDER.
- PROVIDE INDEPENDENT SEISMIC SUPPORT OF ALL ELECTRICAL EQUIPMENT PER THE LATEST ADOPTED VERSION OF THE INTERNATIONAL BUILDING CODE.
- ALL ELECTRICAL PENETRATIONS TO BE FIREPROOFED TO MAINTAIN INTEGRITY OF FIRE WALLS/FLOORS/CEILING.
- ALL THE WIRE SIZES ARE BASED ON COPPER, ALUMINUM IS NOT TO BE USED UNLESS NOTED OTHERWISE.
- MINIMUM CONDUCTOR SIZE FOR A FULLY LOADED 20A CIRCUIT, UNLESS OTHERWISE NOTED, SHALL BE #12 FOR ALL BRANCH CIRCUIT RUNS UP TO THE FIRST OUTLET; OVER 60 FEET, #10; OVER 105 FEET, #8; INCREASE CONDUIT SIZE TO SUIT.
- CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD, TO BALANCE CIRCUITS EVENLY ON ALL PHASES.
- ALL WIRING METHODS ARE TO BE IN ACCORDANCE WITH THE CURRENT ISSUE OF THE NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL CODES. ALL WIRING IS TO BE IN CONDUIT, UNLESS SPECIFICALLY NOTED OTHERWISE. ALL WIRING IS TO BE CONCEALED.
- ELECTRICAL CONTRACTOR MUSR COORDINATE LED DRIVER WITH DIMMER SWITCH FOR COMPATIBILITY.
- SHARED NEUTRALS ARE NOT TO BE USED. PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS INCLUDING SWITCHES PER THE LATEST EDITION OF THE NEC.
- FOR ALL ROOFTOP OR GRADE LEVEL HVAC EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL SUPPLY A GFCI WP, 20A RECEPTACLE FOR EQUIPMENT SERVICING. ALL DISCONNECT SWITCHES ARE TO BE HEAVY DUTY, FUSED, WEATHER PROOF (WP) DEVICES.
- FOR ALL FLOOR BOXES WITH DATA COMMUNICATIONS SERVICES PROVIDE (2) 3/4" EMPTY CONDUITS TO HUNG CEILING OR OTHER ACCESSIBLE SPACE. INSTALL A DRAG WIRE.
- FOR ALL WALL/CEILING BOXES FOR DATA COMMUNICATIONS PROVIDE 3/4"C EMPTY CONDUITS TO HUNG CEILING OR OTHER ACCESSIBLE SPACE. INSTALL A DRAG WIRE.
- RISER DIAGRAMS ARE PROVIDED TO SHOW DIAGRAMMATIC GENERAL WIRING REQUIREMENTS. WIRING IS TO BE PROVIDED FOR THE PARTICULAR VENDOR/SYSTEM APPROVED FOR THE PROJECT. ALL WIRING IS TO BE CONCEALED.
- ALL WIRING IN AIR PLENUM CEILINGS SHALL BE TEFLON COATED AND RATED FOR USE WITHIN THE PLENUM.
- NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS POWER WIRING.
- EMERGENCY SERVICES SHALL BE RUN IN SEPARATE RACEWAYS FROM ALL OTHER SYSTEMS.
- PROVIDE DRAG LINES IN ALL EMPTY RACEWAYS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL FOR ALL LIGHT FIXTURES, PANELS, SWITCHES, RECEPTACLES, POKE THROUGH'S, WIREMOLD, TRANSFORMERS, GENERATOR, ATS, UPS AND SPECIALTY ELECTRICAL SYSTEMS, ETC.
- ELECTRICAL CONTRACTOR TO VERIFY LIGHTING FIXTURE MOUNTING HEIGHT REQUIREMENTS FOR VARIOUS CEILING TYPES AND ORDER APPROPRIATE HARDWARE.
- COORDINATE EXACT PLACEMENT OF EQUIPMENT WITH ARCHITECTURAL AND MECHANICAL PLANS, MAKE FIELD ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS, VERIFY WITH OWNER.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL AND MECHANICAL CONTRACTOR FOR ITEMS SUPPLIED BY THE MECHANICAL/OTHER DIVISIONS BUT INSTALLED BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO REVIEW ALL THE PLANS FOR THE PROJECT AND ASSIST IN PROVIDING COORDINATION DRAWINGS WITH OTHER TRADES.
- ELECTRICAL CONTRACTOR TO VERIFY LOADS, SETTINGS, OVERCURRENT PROTECTION... ETC TO INSURE COMPATIBILITY OF EQUIPMENT.
- PROVIDE LAMICOID NAMEPLATES AND TYPEWRITTEN PANEL SCHEDULES FOR ALL PANEL BOARDS, DISTRIBUTION AND DISCONNECT EQUIPMENT, MODIFIED OR PROVIDED AS NEW AS PART OF THE SCOPE OF WORK. ALTERNATE LABELING PROVISIONS MUST BE APPROVED BY THE ENGINEER.
- REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES AND OUTLETS.
- CONTRACTOR TO PROVIDE ALL COORDINATION FOR UTILITY SERVICES INCLUDING TEMPORARY SERVICE FOR THE PROJECT. THIS INCLUDES POWER UTILITY, TELEPHONE COMPANY AND CABLE TV OPERATOR.
- DISCONNECT SWITCHES AND CIRCUIT BREAKER USED AS SWITCHES SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE "NEC" SECTION 110.26 TABLE 110.26(A)(1) AND SECTION 404.8. ALL DISCONNECT SWITCHES AND CIRCUIT BREAKERS SHALL BE LOCATED SO THAT THEY MAY BE OPERATED FROM A READILY ACCESSIBLE PLACE. THEY SHALL BE INSTALLED SUCH THAT THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF THE SWITCH OR CIRCUIT BREAKER, WHEN IN ITS HIGHEST POSITION, IS NOT MORE THAN 6'-7" ABOVE THE FLOOR OR WORKING PLATFORM WITH 36" CLEAR IN FRONT.
- ALL SURFACE RACWAY LOCATED IN FINSH AREAS SHALL BE INSTALLED IN WIREMOLD SURFACE METAL RACEWAY OR APPROVED EQUAL.

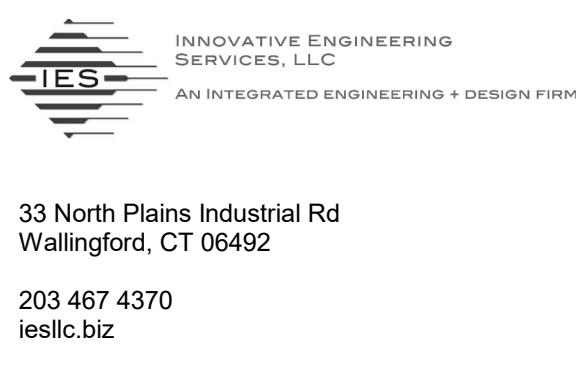
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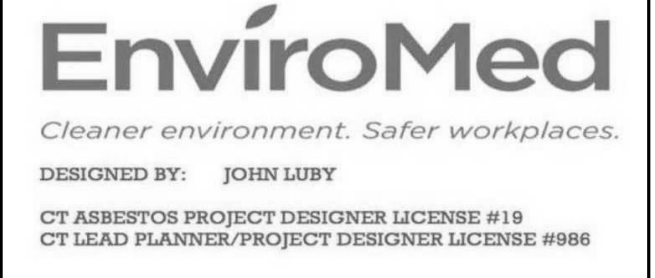
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MEP ENGINEER



ENVIRONMENTAL CONSULTANT



ISSUED FOR BIDDING
MARCH 12, 2024

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SHEET TITLE
ELECTRICAL NOTES,
LEGEND, & SCHEDULES

ELECTRICAL SPECIFICATIONS CONTINUED

MANUAL MOTORS

FURNISH AND INSTALL FRACTIONAL HORSEPOWER MANUAL MOTOR STARTERS WITH ON-OFF CONTROL, THERMAL OVERLOAD RELAY AND PILOT LIGHTS. MANUFACTURED BY ABB, SIEMENS, SQUARE 'D', OR ALLEN BRADLEY.

	ABB	SQUARE 'D'	ALLEN BRADLEY	SIEMENS
1 POLE, SURFACE	CR101Y11	2510FG1P	600-TAX4	SMFFG1P
2 POLE, SURFACE	CR101H11	2510FG2P	600-TAX5	SMFFG2P

JUNCTION BOXES, PULLBOXES AND WIREWAYS

JUNCTION BOXES, PULLBOXES AND WIREWAYS SHALL BE OF PROPER TYPE AND SIZES AS REQUIRED. CODE GAUGE, GALVANIZED STEEL WITH KNOCKOUTS AND FLANGES TO RECEIVE THE COVERS. COVERS SHALL BE FLAT, OF THE SAME MATERIAL AS THE BOX AND FASTENED TO THE BOX WITH MACHINE SCREWS. MANUFACTURED BY HOFFMAN, SQUARE 'D', OR LEE PRODUCTS.

BACKBOARDS

BACKBOARDS SHALL BE FIRE RETARDANT, HICKSON CO. (DRI-CON) 3/4 INCH TYPE AS PLYWOOD OF SUFFICIENT SIZE FOR MOUNTING OF SPECIFIED EQUIPMENT. PAINT ALL SIDES WITH TWO (2) COATS OF FIRE-RETARDANT GRAY ENAMEL PAINT.

GROUND RODS

GROUND RODS SHALL BE HIGH STRENGTH STEEL CORE WITH ELECTROLYTIC ALLY BONDED COPPER JACKET. GROUND RODS SHALL CONFORM TO THE REQUIREMENTS OF THE U.I. SPEC. NO. 467 (ANSI C-33.8-1972). MINIMUM SIZE SHALL BE 5/8 INCH DIAMETER BY EIGHT (8') FT. UNLESS OTHERWISE INDICATED. LENGTH MANUFACTURED BY ERICO, BLACKBURN PRODUCTS, ANIXTER, OR GAVIN.

WIRING DEVICES

ALL DEVICES SHALL BE COMMERCIAL SPECIFICATION GRADE, U.L. LISTED, SELF-GROUNDING, GROUND LUG, SIDE/BACK WIRED. COLOR SHALL BE SELECTED BY ARCHITECT OR OWNER UNLESS OTHERWISE INDICATED. MANUFACTURED BY HUBBELL, LEVITON, OR PASS & SEYMOUR.

ALL DEVICES SHALL BE HOSPITAL GRADE, U.L. LISTED, SELF-GROUNDING, GROUND LUG, BACK AND SIDE WIRED. COLOR SHALL BE SELECTED BY ARCHITECT OR OWNER UNLESS OTHERWISE INDICATED. MANUFACTURED BY HUBBELL, LEVITON, OR PASS & SEYMOUR.

DEVICES COLOR SHALL BE SELECTED BY ARCHITECT OR OWNER UNLESS OTHERWISE INDICATED FOR NORMAL POWER CIRCUITS AND RED FOR EMERGENCY POWER CIRCUITS.

RECEPTACLES THAT HAVE A POWER FEED THRU (FEED IN - FEED OUT) ARRANGEMENT SHALL BE PIGTAILED. FEED THRU FEATURE ON DUPLEX RECEPTACLES USE IS NOT ACCEPTABLE.

RECEPTACLES: 20A 125V	HUBBELL	LEVITON	PASS & SEYMOUR
DUPLEX RECEPTACLE	BR20	5362	CRB5362
DUPLEX RECEPTACLE - GFCI	GF20 AL	7899	2095

ALL INSTALLED RECEPTACLES UNDER THIS PROJECT SHALL BE TESTED AND CERTIFIED AS PER JOINT COMMISSION CERTIFICATION REQUIREMENTS. THE CONTRACTOR SHALL UTILIZE HOSPITAL FURNISHED EQUIPMENT TO PERFORM REQUIRED TESTING. CONSULT WITH FACILITIES ENGINEER FOR REQUIREMENTS.

WALL PLATES FOR SWITCHES AND RECEPTACLES SHALL BE STAMPED STEEL FOR FURNISHED AREAS. MANUFACTURED BY HUBBELL.

RECEPTACLES LOCATED IN WET LOCATIONS SHALL BE INSTALLED WITH AN OUTLET ENCLOSURE CLEARLY MARKED "SUITABLE FOR WET LOCATIONS WHILE IN USE". THERE MUST BE A GASKET BETWEEN THE COVER AND THE BASE TO ASSURE A PROPER SEAL. THE ENCLOSURE MUST EMPLOY STAINLESS STEEL MOUNTING HARDWARE AND BE CONSTRUCTED OF IMPACT RESISTANT POLYCARBONATE. THE OUTLET ENCLOSURE SHALL BE U.L. LISTED. MANUFACTURED BY HUBBELL, OR APPROVED EQUAL.

EMERGENCY LIGHTING AND EXIT LIGHTING SYSTEM

FURNISH AND INSTALL WHERE SHOWN ON PLANS, A SYSTEM OF UNITS SO ARRANGED THAT IN CASE OF POWER FAILURE, THESE LIGHTS WILL AUTOMATICALLY ILLUMINATE THE EGRESS AND EXIT AREAS. UNIT SHALL BE U.L. LISTED AND SHALL MEET THE REQUIREMENTS OF THE N.E.C., N.F.P.A. 101 LIFE SAFETY CODE. CONNECT EMERGENCY LIGHTING AND EXIT SIGNAGE TO LOCAL LIGHTING BRANCH CIRCUIT AHEAD OF SWITCHING DEVICE (CONSTANT POWER).

POWER AND CONTROL WIRING

FURNISH AND INSTALL ALL POWER WIRING, CONTROL WIRING (120VAC), CONDUIT AND FITTINGS FOR ALL PLUMBING, HEATING AND VENTILATING AND AIR CONDITIONING EQUIPMENT AND FINAL CONNECTIONS. MANUAL MOTOR STARTERS SHALL BE FURNISHED, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR. EVERY MOTOR SHALL BE PROVIDED WITH RUNNING OVERLOAD PROTECTION. UPON COMPLETION OF WORK, CHECK OUT EACH ITEM. ITEMS TO BE CHECKED ARE VOLTAGE, ROTATION AND OVERLOAD PROTECTION.

PART 3 - EXECUTION

INSTALLATION

ALL WORK, MATERIALS AND MANNER OF INSTALLING SAME SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.

ALL CONDUIT AND WIRING SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE NOTED.

WIRING IN UNFINISHED AREAS SHALL BE INSTALLED EXPOSED USING EMT OR RGS CONDUIT.

WIRING IN FINISHED AREAS SHALL BE INSTALLED IN WIREMOLD RACEWAY.

RACEWAYS

RACEWAYS, ENCLOSURES AND BOXES SHALL BE MECHANICALLY JOINED TO FORM A CONTINUOUS ELECTRICAL PATH.

THE CONTRACTOR SHALL PROVIDE APPROVED TYPE PULL BOXES AS REQUIRED.

MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.

FURNISH NYLON PULL STRINGS IN ALL EMPTY CONDUIT RUNS.

FURNISH LOCKNUTS AND BUSHINGS FOR ALL CONDUIT TERMINATIONS IN ALL OUTLET BOXES, PANELS, PULL BOXES, CONDUIT STUBS, ETC.

RIGID GALVANIZED STEEL CONDUIT (RGS) SHALL BE USED FOR WIRING IN THE FOLLOWING LOCATIONS:

- SERVICE POLE RISERS
- BURIED UNDER GRADE FOR SERVICE ENTRANCE CONDUCTORS
- WITHIN CONCRETE SLABS
- EXPOSED TO MOISTURE AND MECHANICAL DAMAGE
- EXTERIOR INSTALLATIONS

ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED FOR CONCEALED AND EXPOSED WIRING IN DRY LOCATIONS AS FOLLOWS:

- INTERIOR PANEL FEEDERS
- EXPOSED TO MOISTURE WITH WATER PROOF COMPRESSION FITTINGS
- INTERIOR LIGHTING, RECEPTACLE AND POWER BRANCH CIRCUIT WIRING

RIGID POLYVINYL CHLORIDE (PVC) SHALL BE USED FOR WIRING IN THE FOLLOWING LOCATIONS:

- BURIED UNDER GRADE FOR SERVICE ENTRANCE PRIMARY AND SECONDARY CONDUCTORS.
 - LIGHTING AND POWER BRANCH CIRCUIT WIRING BURIED UNDER GRADE
 - BELOW CONCRETE SLABS
 - EXPOSURE TO MOISTURE
- EXTERIOR FEEDERS SHALL BE INSTALLED IN RGS CONDUIT.

ALL CONDUIT SHALL BE INSTALLED IN PARALLEL AND PERPENDICULAR TO THE BUILDING LINES.

ALL CONDUIT SHALL BE SUPPORTED USING CADMIUM PLATED CONDUIT STRAPS AND HANGERS.

SEPARATE CONDUIT SYSTEMS SHALL BE INSTALLED FOR NORMAL AND EMERGENCY POWER.

WIRING

PROVIDE WIRING TO ALL OUTLETS, EQUIPMENT, APPARATUS AND OTHER SPECIALTIES UNDER THIS DIVISION THAT WHICH FURNISHED OR PROVIDED UNDER OTHER DIVISIONS OR BY THE OWNER.

THE TERM 'WIRING' SHALL BE CONSIDERED TO BE COMPRISED OF THE CONDUIT, CONDUCTORS, CONNECTIONS, ETC.

ALL WIRING ON DRAWINGS IS SIZED FOR TYPE THWN/THHN COPPER CONDUCTORS.

MINIMUM SIZE WIRE SHALL BE #12 UNLESS OTHERWISE INDICATED. ALL WIRING SHALL BE COLOR CODED.

EXERCISE CAUTION IN PULLING CONDUCTORS INTO RACEWAYS SO AS NOT TO DAMAGE THE INSULATION. CABLE PULLING LUBRICANT SHALL BE USED TO ASSIST IN PULLING.

CONDUCTOR WITHIN PANELBOARDS, JUNCTION BOXES, TROUGHES AND OTHER EQUIPMENT WHERE CONCENTRATIONS OF CONDUCTORS ARE ENCLOSED, SHALL BE NEATLY ARRANGED AND TIED WITH CABLE TIES.

CIRCUITS SHALL BE SO CONNECTED TO THE PANELBOARDS THAT THE TOTAL LOAD IS DISTRIBUTED AS NEATLY AS POSSIBLE, EQUALLY BETWEEN EACH LINE AND NEUTRAL. 10% WILL BE CONSIDERED A REASONABLE AND ALLOWABLE UNBALANCE.

BRANCH CIRCUIT WIRING FOR HVAC EQUIPMENT AND RECEPTACLES IN DRYWALL CONSTRUCTION AND ACCESSIBLE HUNG CEILING SPACE, HOME-RUN CIRCUIT SHALL BE INSTALLED WITHIN EMT RACEWAY, BRANCH WIRING WITHIN PARTITIONS SHALL BE IN METAL SHEATHED 'MC' TYPE CABLE. CABLE SHALL BE SUPPORTED FROM STRUCTURE 4" O.C. WITH APPROVED CABLE SUPPORTS. PROVIDE APPROPRIATE GROMMETS FOR HORIZONTAL RUNS IN METAL STUD PARTITIONS. CABLE SHALL NOT LAY ON CEILING STRUCTURE OR TILES. PROVIDE ANTI-SHORT BUSHINGS (RED HEAD) UNDER ARMOR JACKET AT TERMINATIONS.

COMMON NEUTRAL FOR MULTIPLE BRANCH CIRCUITS IS NOT ACCEPTABLE. PROVIDE SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT.

WIRING IN OUTLET BOXES, JUNCTION BOXES, CABINET PANELBOARDS OR EQUIPMENT SHALL HAVE A MINIMUM OF EIGHT (8") INCHES LENGTH LEADS FOR CONNECTING WIRING DEVICES TO MAKE UP CIRCUIT SPLICES.

PROVIDE FLEXIBLE METAL CONDUIT FOR DRY TYPE TRANSFORMER CONNECTIONS. LENGTH OF FLEXIBLE METAL CONDUIT DO NOT EXCEED THREE FEET (3').

INSTALL COPPER GREEN INSULATED GROUNDING CONDUCTOR IN ALL CONDUITS AND RACEWAYS.

SPLICING

SPLICING SHALL BE DONE WITH INSULATED OR NON-INSULATED CONNECTORS OF APPROPRIATE TYPES AND CURRENT-CARRYING CAPACITY. NON-INSULATED CONNECTORS SHALL BE WRAPPED WITH INSULATING TAPE TO THE THICKNESS OF THE INSULATION OF THE CONDUCTORS BEING SPLICED. ELECTRICAL TAPE SHALL BE 3M OR SUPER 88 SCOTCH VINYL FLAME-RETARDANT, COLD AND WEATHER RESISTANT.

SPLICES FOR CONDUCTORS, SIZES #10 AWG OR SMALLER SHALL BE MADE WITH U.L. LISTED SPRING-TYPE CONNECTORS OR APPROPRIATE CURRENT CARRYING CAPACITY.

SPLICES, TAPS AND TERMINALS FOR CONDUCTORS #8 AWG OR LARGER SHALL BE MADE WITH U.L. LISTED BOLTED PRESSURE CONNECTORS OF BRONZE OR COPPER CONSTRUCTION, OF APPROPRIATE CURRENT CARRYING CAPACITY. EQUAL TO O/Z GEDENY, BURNDY OR BLACKBURN.

CONDUCTOR IDENTIFICATION

CONDUCTORS #8 AWG AND SMALLER SHALL HAVE A COLOR-CODED INSULATION.

CONDUCTORS #6 AWG AND LARGER SHALL BE IDENTIFIED WITH TAPES APPLIED NEAR THE ENDS OF THE CONDUCTORS.

FEEDERS AND BRANCH CIRCUIT CONDUCTORS SHALL BE IDENTIFIED FOR PHASE ROTATION.

120/240V/1PH

PHASE A	BLACK
PHASE B	RED
PHASE C	-
NEUTRAL	WHITE
GROUND	GREEN

ALL FEEDERS, MAINS AND BRANCH CIRCUIT CONDUCTORS SHALL BE TAGGED AT BOTH ENDS WITH WIRE MARKERS IN ALL PANELS, MOTOR CONTROLS, JUNCTION BOXES, OUTLET BOXES AND DEVICE BOXES.

IDENTIFICATION

FURNISH AND INSTALL NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT, IDENTIFYING ITEMS BY NAME, FUNCTION AND/OR CONTROL.

IDENTIFYING NAMEPLATES SHALL BE LAMINATED, PLASTIC TYPE, CONSISTING OF TWO BLACK PLASTIC SHEETS WITH ONE WHITE PLASTIC SHEET BONDED TO AND BETWEEN THE TWO OUTER BLACK SHEETS AND HAVING THE LETTERS ENGRAVED IN ONE BLACK TO THE DEPTH OF THE WHITE PLASTIC. FASTEN NAMEPLATES TO EQUIPMENT WITH SUITABLE ADHESIVES OR STAINLESS STEEL SCREWS.

ALL PANELS SHALL HAVE TYPEWRITTEN CIRCUIT DIRECTORIES IDENTIFYING ALL BRANCH CIRCUITS. PROVIDE ADDITIONAL COPY OF COMPLETE UPDATED PANEL DIRECTORY TO FACILITY ENGINEERING.

USE PLASTIC-COATED WIRE MARKERS OF THE SELF-ADHESIVE. WRAPAROUND TYPE WITH PERMANENT FACTORY-PRINTED NUMBER, LETTERS AND SYMBOLS.

WIRE MARKERS SHALL BE SECURELY ATTACHED AT BOTH ENDS, IDENTIFYING PANEL AND CIRCUIT BREAKER NUMBERS.

ALL CONDUCTORS SHALL BE PERMANENTLY TAGGED AT TIME OF INSTALLATION. LABELS SHALL BE EQUAL TO T&B, PANDUIT OR IDEAL.

GROUNDING

ALL ELECTRICAL WORK SHALL BE GROUNDED AND BONDED IN FULL CONFORMANCE WITH THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE AND LOCAL REQUIREMENTS.

ALL ELECTRICAL EQUIPMENT, PANELBOARD ENCLOSURES, MOTOR FRAMES, SAFETY SWITCHES, METAL ENCLOSURES, ELECTRICAL DEVICE CLOSURES AND ALL OTHER EQUIPMENT SHALL BE MADE TO FORM A CONTINUOUS CONDUCTING, GROUND PATH OF LOW IMPEDANCE FOR GROUND FAULT CIRCUITS AND OPERATION OF THE CIRCUIT PROTECTIVE DEVICES WITHIN EACH CIRCUIT.

PROVIDE GROUNDING CONDUCTOR IN ALL RACEWAYS.

GROUND CONNECTIONS WITH THE GROUNDING CONDUCTORS SHALL BE MADE AT EACH OUTLET BOX, MOTOR AND OTHER EQUIPMENT COMPONENTS BY MEANS OF A POSITIVELY SECURED GROUNDING CLAMP, SCREW OR CLIP. CONNECTIONS TO GROUNDING RODS, OTHER GROUNDING ELECTRODE CONDUCTORS SHALL BE MADE WITH CADWELL TYPE, EXOTHERMIC WELD PROCESS UNLESS OTHERWISE NOTED. CONNECTIONS TO PIPES SHALL BE MADE WITH APPROVED BRONZE OR BRASS CLAMPS.

BONDING SHALL BE PROVIDED TO ASSURE ELECTRICAL CONTINUITY AND THE CAPACITY TO SAFELY CONDUCT ANY FAULT CURRENT LIKELY TO BE IMPOSED.

ALL DEVICES (DISCONNECTS, RECEPTACLES, ETC.), SHALL BE GROUNDED TO CONDUIT SYSTEM WITH SIX (6") INCH SOLID COPPER #12 AWG INSULATED WIRE (GREEN) CONNECTED TO GROUND SCREW IN DEVICE AND FASTENED TO BACKBOX WITH 10-32x3/8" SLOTTED HEXAGON HEAD WASHER FACE GROUND WITH GREEN DYE FINISH.

SEISMIC RESTRAINT

SEISMIC LATERAL RESTRAINTS DESIGNED TO RESIST HORIZONTAL MOVEMENT IN ANY DIRECTIONS SHALL BE INSTALLED IN ALL SUSPENDED CONDUITS 2-1/2 INCHES IN DIAMETER OR GREATER. QUANTITY AND LOCATION OF THE LATERAL RESTRAINTS SHALL BE BASED ON THE CONDUIT SYSTEM LAYOUT AND IN GENERAL, SHALL BE INSTALLED AT CONDUIT BENDS, JUNCTION BOXES AND APPROXIMATELY EVERY 20 FEET ALONG CONDUIT RUNS. SEISMIC LATERAL RESTRAINTS ARE NOT REQUIRED FOR ANY PIPING SUSPENDED BY INDIVIDUAL HANGERS 12 INCHES OR LESS IN LENGTH FROM TOP OF PIPING TO THE BOTTOM OF THE SUPPORT FOR THE HANGER.

END OF ELECTRICAL SPECIFICATIONS

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ELECTRICAL
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