

Town / Village of Harrison

HARRISON RECREATION & COMMUNITY CENTER

270 Harrison Avenue
Harrison, NY 10528

JUNE 05, 2024

KG+D Project No.
2020-1005

DESIGN TEAM

PHASE 2 - ISSUE FOR BID



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KG+D Architects, PC

285 Main Street
Mount Kisco, NY 10549
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MEP ENGINEER
OLA Consulting Engineers, PC

50 Broadway - Suite 2
Hawthorne, NY 10532
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The Di Salvo Engineering Group

93 Lake Ave - Suite 201
Danbury, CT 06810
phone: 203.490.4140

CIVIL ENGINEER
Creighton Manning

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phone: 518.446.0396

SPECIFICATION WRITER
Kalin Associates

21 Eliot Street
Natick, MA 01760
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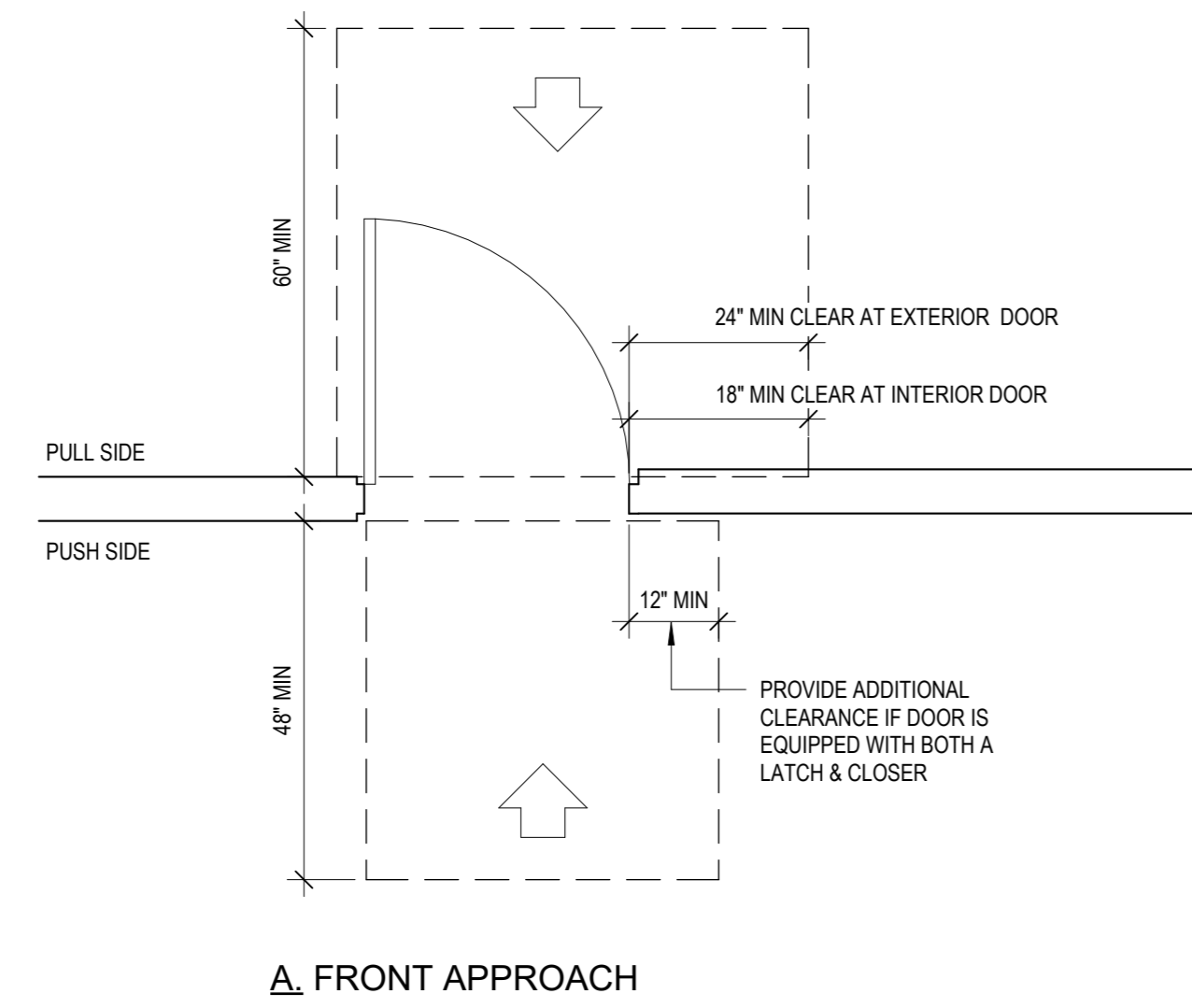
DRAWING LIST

| | | | | | | | | |
|--|---------------|--|-----------------|--|------------|--|-------------------|--|
| GENERAL | S402 | MASONRY TYPICAL DETAILS | A802 | WALL SECTIONS | P-702 | PLUMBING DETAILS | E-602 | ELECTRICAL SCHEDULES |
| G000 COVER | S501 | COLD-FORMED FRAMING SCHEDULES AND TYPICAL DETAILS | A803 | WALL SECTIONS | | | E-701 | ELECTRICAL DETAILS |
| G001 GENERAL INFORMATION | | | A804 | WALL SECTIONS | MECHANICAL | | E-702 | ELECTRICAL DETAILS |
| G002 ACCESSIBILITY DIAGRAMS | | | A805 | CEILING DETAILS | M-001 | MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES | E-703 | ELECTRICAL DETAILS |
| | ARCHITECTURAL | | A901 | WALL TYPES & GENERAL NOTES | M-201 | MECHANICAL PARKING FLOOR PLAN | | |
| CODE COMPLIANCE | A101 | ARCHITECTURAL SITE PLAN | A902 | FRAMING & PENETRATION DETAILS | M-202 | MECHANICAL FIRST FLOOR PLAN | TELECOMMUNICATION | |
| CC001 CODE COMPLIANCE INFORMATION | A201 | LOWER LEVEL PARKING PLAN | A911 | DOOR SCHEDULE & TYPICAL DOOR DETAILS | M-203 | MECHANICAL SECOND FLOOR PLAN | TC-000 | TELECOMMUNICATION COVER SHEET AND DEVICE LEGEND |
| CC002 CODE COMPLIANCE INFORMATION | A202 | 1st FLOOR PLAN | A912 | DOOR & FRAME TYPES | M-204 | MECHANICAL ROOF PLAN | TC-100 | TELECOMMUNICATION LOWER LEVEL DEVICE PLAN |
| | A203 | 2nd FLOOR PLAN | A913 | WINDOW TYPES | M-301 | MECHANICAL PARKING PIPING PLAN | TC-101 | TELECOMMUNICATION 1ST FLOOR DEVICE PLAN |
| SURVEY | A204 | ROOF LEVEL PLAN | A921 | EXTERIOR DETAILS | M-302 | MECHANICAL FIRST FLOOR PIPING PLAN | TC-102 | TELECOMMUNICATION 2ND FLOOR DEVICE PLAN |
| V-001 TOPOGRAPHIC SURVEY 2023 | A301 | EXTERIOR ELEVATIONS | A922 | EXTERIOR DETAILS | M-303 | MECHANICAL SECOND FLOOR PIPING PLAN | TC-200 | TELECOMMUNICATION RISER DIAGRAMS |
| | A302 | EXTERIOR ELEVATIONS | A930 | 1ST FLOOR PLAN DETAILS | M-304 | MECHANICAL ROOF PIPING PLAN | TC-300 | TELECOMMUNICATION TYPICAL DETAILS -1 |
| CIVIL | A303 | BUILDING SECTIONS | A931 | TYPICAL ROOF SECTIONS & DETAILS | M-401 | MECHANICAL SITE PLAN | TC-700 | TELECOMMUNICATION TYPICAL DETAILS -1 |
| C001 GENERAL NOTES | A304 | BUILDING SECTIONS | A932 | TYPICAL ROOF SECTIONS & DETAILS | M-501 | MECHANICAL SCHEMATICS | TC-701 | TELECOMMUNICATION TYPICAL DETAILS -1 |
| C100 EXISTING CONDITIONS & REMOVALS PLAN | A401 | ENLARGED PLANS & INTERIOR ELEVATIONS | | | M-601 | MECHANICAL EQUIPMENT NOTES & SCHEDULES | | |
| C101 SITE LAYOUT PLAN | A402 | LOCKER ROOM ENLARGED PLANS & INTERIOR ELEVATIONS | FIRE PROTECTION | | M-602 | MECHANICAL EQUIPMENT NOTES & SCHEDULES | SECURITY | |
| C102 SITE GRADING PLAN | A403 | GYMNASIUM INTERIOR ELEVATIONS | FP-001 | FIRE PROTECTION SYMBOLS, ABBREVIATIONS & NOTES | M-603 | MECHANICAL EQUIPMENT NOTES & SCHEDULES | SE-000 | COVER SHEET |
| C103 EROSION & SEDIMENT CONTROL PLAN | A404 | GYMNASIUM INTERIOR ELEVATIONS | FP-201 | FIRE PROTECTION PARKING PLAN | M-701 | MECHANICAL DETAILS | SE-100 | LOWER LEVEL SECURITY DEVICE PLAN |
| C104 SITE DETAILS | A405 | 1ST FLOOR INTERIOR ELEVATIONS | FP-202 | FIRE PROTECTION 1ST FLOOR PLAN | M-702 | MECHANICAL DETAILS | SE-101 | 1ST FLOOR SECURITY DEVICE PLAN |
| C105 WORK ZONE TRAFFIC CONTROL PLAN | A406 | 2ND FLOOR ENLARGED PLANS & INTERIOR ELEVATIONS | FP-203 | FIRE PROTECTION 2ND FLOOR PLAN | M-703 | MECHANICAL DETAILS | SE-102 | 2ND FLOOR SECURITY DEVICE PLAN |
| C200 UTILITY PLAN | A410 | TOILET ROOMS AND PANTRY - ENLARGED PLANS & INTERIOR ELEVATIONS | FP-701 | FIRE PROTECTION DETAILS 1 OF 3 | M-704 | MECHANICAL DETAILS | SE-300 | INTRUSION & ACCESS CONTROL CLOSET ELEVATION IDF-1 |
| | A411 | TOILET ROOMS AND PANTRY - ENLARGED PLANS & INTERIOR ELEVATIONS | FP-702 | FIRE PROTECTION DETAILS 2 OF 3 | | | SE-301 | CCTV CLOSET ELEVATION IDF-1 |
| LANDSCAPE | A440 | MILLWORK DETAILS | FP-703 | FIRE PROTECTION DETAILS 3 OF 3 | ELECTRICAL | | SE-500 | SECURITY EQUIPMENT DETAIL DOOR TYPICALS-1 |
| L100 LANDSCAPE PLAN & SITEWORK DETAILS | A441 | MILLWORK DETAILS | FR-301 | FIRE RADIO PARKING LEVEL PLAN | E-001 | ELECTRICAL SYMBOLS, NOTES & ABBREVIATIONS | SE-501 | SECURITY EQUIPMENT DETAIL DOOR TYPICALS-2 |
| | A501 | LOWER LEVEL FINISH PLAN | FR-302 | FIRE RADIO FIRST FLOOR PLAN | E-010 | ELECTRICAL SITE PLAN | SE-701 | BURGLAR & ACCESS CONTROL OVERALL SYSTEM INTERFACE ONE LINE DIAGRAM |
| STRUCTURAL | A502 | 1st FLOOR PLAN FINISH PLAN | FR-303 | FIRE RADIO SECOND FLOOR PLAN | E-201 | ELECTRICAL PARKING REFLECTED CEILING PLAN | SE-704 | SECURITY EQUIPMENT DETAIL 2 ACCESS DEVICE TYPICALS |
| S001 GENERAL STRUCTURAL NOTES | A503 | 2nd FLOOR PLAN FINISH PLAN | FR-304 | FIRE RADIO ROOF PLAN | E-202 | ELECTRICAL FIRST FLOOR REFLECTED CEILING PLAN | SE-705 | SECURITY EQUIPMENT DETAIL 3 IDMA DEVICE TYPICALS |
| S100 LOWER LEVEL SLAB-ON-GRADE PLAN | A504 | FINISH SCHEDULE | | | E-203 | ELECTRICAL SECOND FLOOR REFLECTED CEILING PLAN | SE-705A | SECURITY EQUIPMENT DETAIL 4 BURGLAR DEVICE TYPICALS |
| S101 FIRST FLOOR FRAMING AND SLAB-ON-GRADE PLAN | A510 | ACCENT WALL TILE PATTERNS | PLUMBING | | E-301 | ELECTRICAL PARKING FLOOR PLAN | SE-706 | SECURITY EQUIPMENT DETAIL -5 CCTV TYPICALS |
| S102 SECOND FLOOR & LOW ROOF FRAMING PLAN | A530 | SIGNAGE TYPES AND SCHEDULE | P-001 | PLUMBING SYMBOLS, ABBREVIATIONS & NOTES | E-302 | ELECTRICAL FIRST FLOOR PLAN | | |
| S103 ROOF FRAMING PLAN | A601 | LOWER LEVEL REFLECTED CEILING PLAN | P-200A | PLUMBING PARKING FLOOR & FIRST FLOOR SLAB PLAN | E-303 | ELECTRICAL SECOND FLOOR PLAN | AUDIO & VISUAL | |
| S201 SLAB ON GRADE DETAILS | A602 | 1st FLOOR REFLECTED CEILING PLAN | P-201 | PLUMBING PARKING FLOOR PLAN | E-304 | ELECTRICAL ROOF PLAN | AV100 | AV/VV SYSTEM NOTES & LEGEND |
| S301 STEEL FRAMING SCHEDULES AND TYPICAL DETAILS | A603 | 2nd FLOOR REFLECTED CEILING PLAN | P-202 | PLUMBING FIRST FLOOR PLAN | E-401 | FIRE ALARM PARKING FLOOR PLAN | AVV101 | AVV SYSTEM CONDUIT SYSTEM FLOOR PLANS |
| S302 TRUSS ELEVATION AND DETAILS | A701 | ELEV & STAIR PLANS & SECTIONS | P-203 | PLUMBING SECOND FLOOR PLAN | E-402 | FIRE ALARM FIRST FLOOR PLAN | AVV102 | AVT SYSTEM CONDUIT SYSTEM PLAN DETAILS |
| S303 STEEL COLUMN SCHEDULE AND DETAILS | A702 | STAIR PLANS & SECTIONS | P-204 | PLUMBING ROOF PLAN | E-403 | FIRE ALARM SECOND FLOOR PLAN | AVV103 | AVV SYSTEM CONDUIT 1ST FLOOR RCP |
| S311 FRAMING SECTIONS | A703 | STAIR PLANS & SECTIONS | P-401 | PLUMBING FIRST FLOOR ENLARGED PLANS | E-404 | FIRE ALARM ROOF PLAN | AVV104 | AVV SYSTEM CONDUIT 2ND FLOOR RCP |
| S312 FRAMING SECTIONS | A704 | TYPICAL STAIR DETAILS @ STAIR A, B, & D | P-402 | PLUMBING SECOND FLOOR ENLARGED PLANS | E-501 | ELECTRICAL ONE-LINE DIAGRAM | | |
| S313 FRAMING SECTIONS | A705 | TYPICAL STAIR "C" DETAILS & TRACK GUARDRAIL DETAILS | P-501 | PLUMBING RISER DIAGRAMS 1 OF 2 | E-502 | FIRE ALARM & FIRE RADIO RISER DIAGRAM | | |
| S314 FRAMING SECTIONS | | | P-502 | PLUMBING RISER DIAGRAMS 2 OF 2 | E-601 | ELECTRICAL SCHEDULES | | |
| S401 MASONRY SCHEDULE AND TYPICAL DETAILS | A801 | WALL SECTIONS | P-701 | PLUMBING DETAILS | | | | |

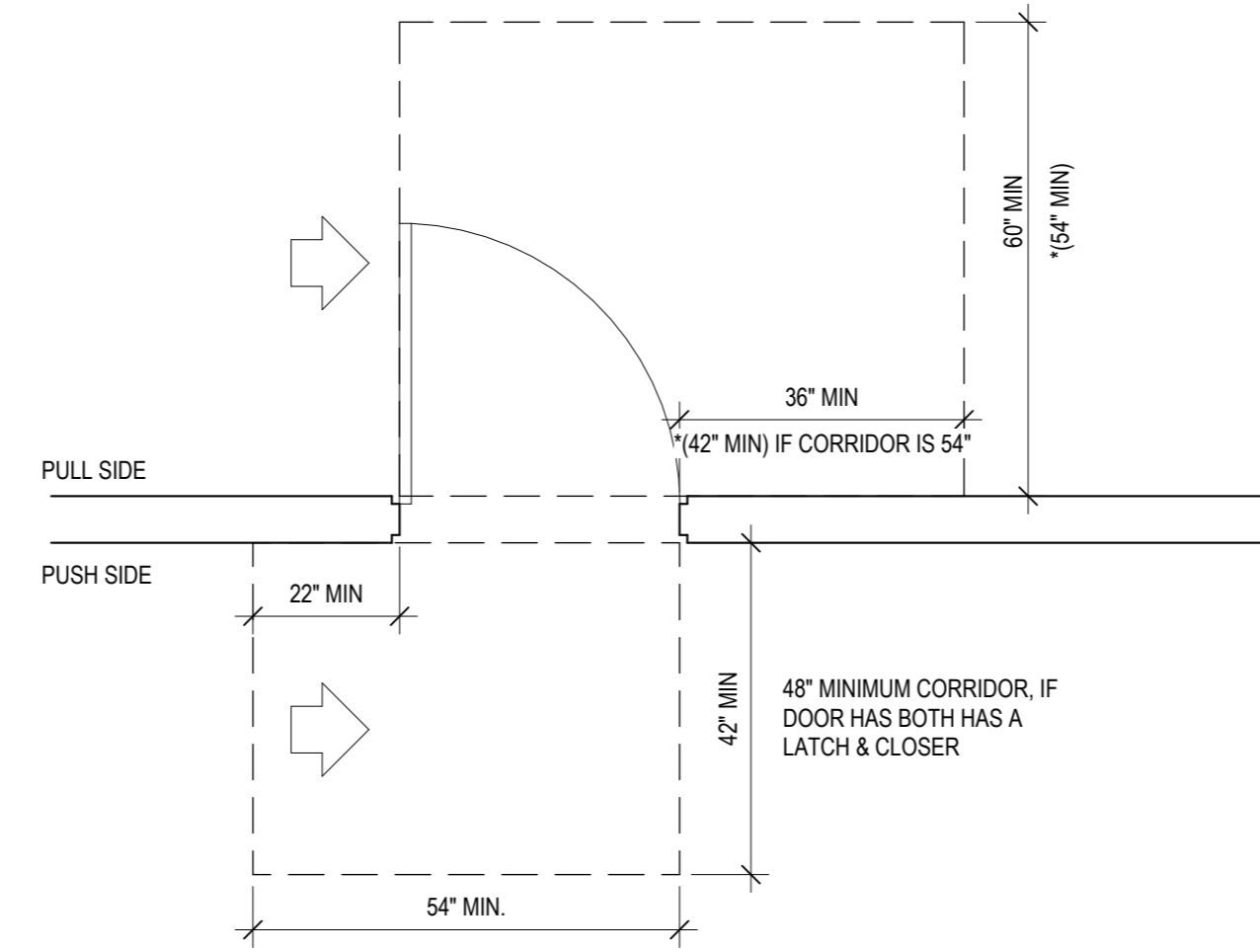
COVER

G000

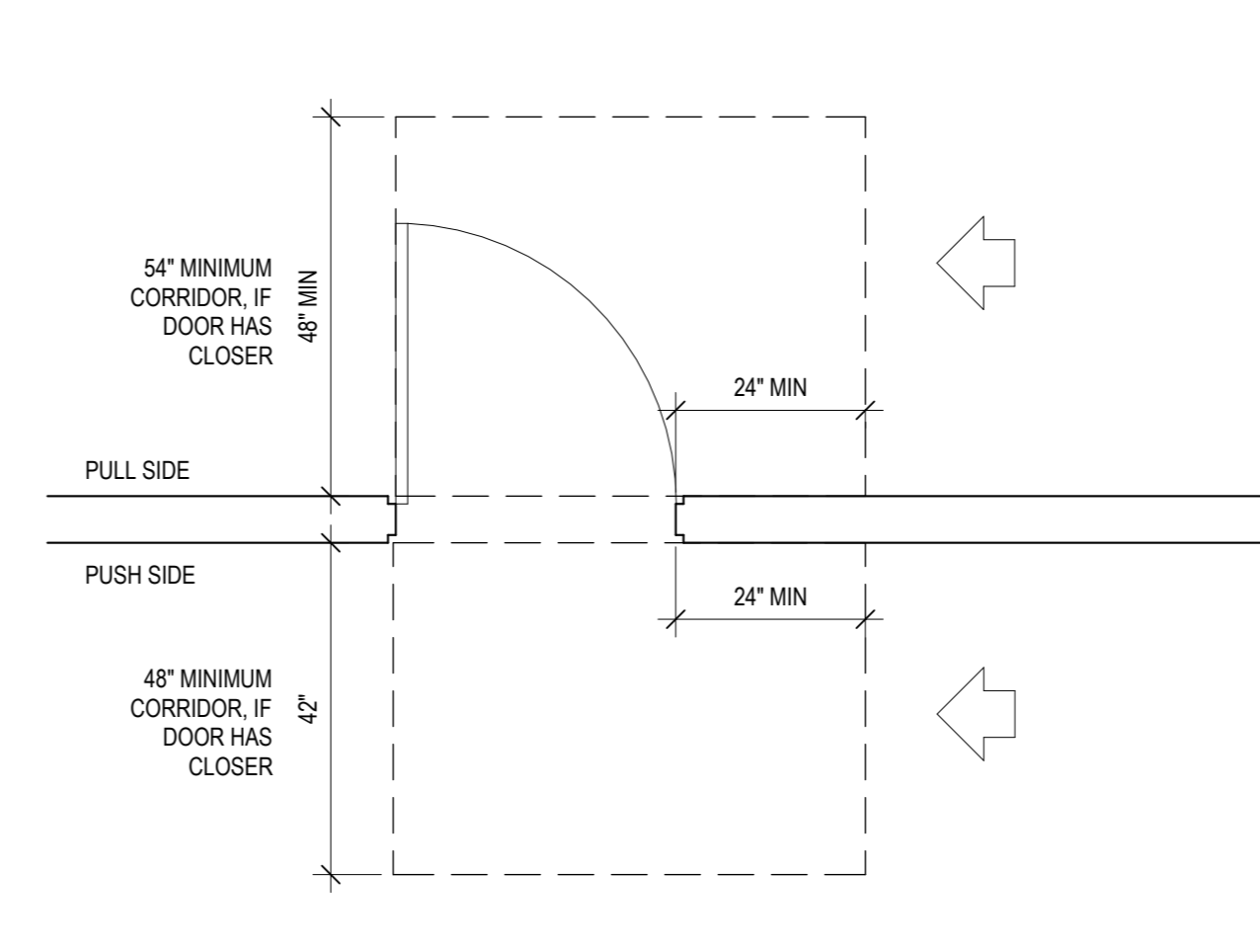
Grand total: 166



A. FRONT APPROACH

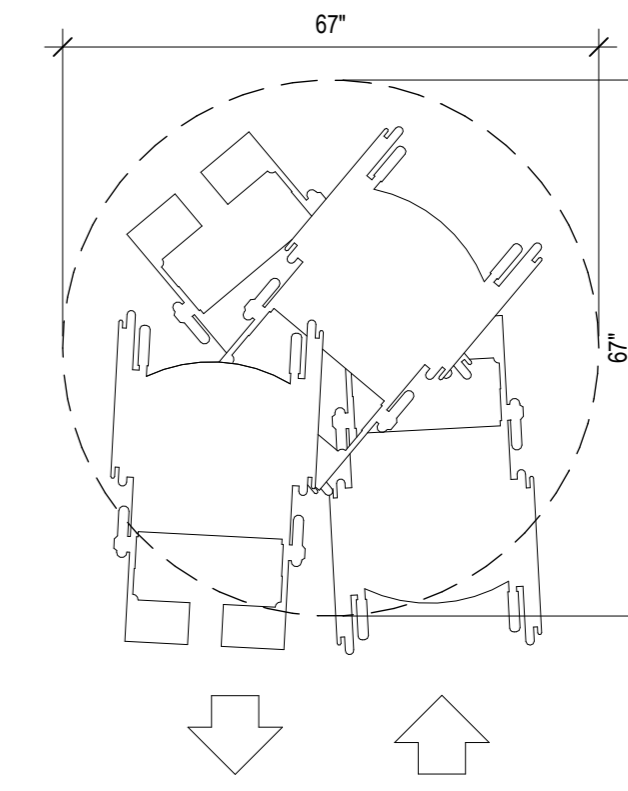


B. HINGE APPROACH



C. LATCH SIDE APPROACH

REF:
ADA: 404
ANSI: 404

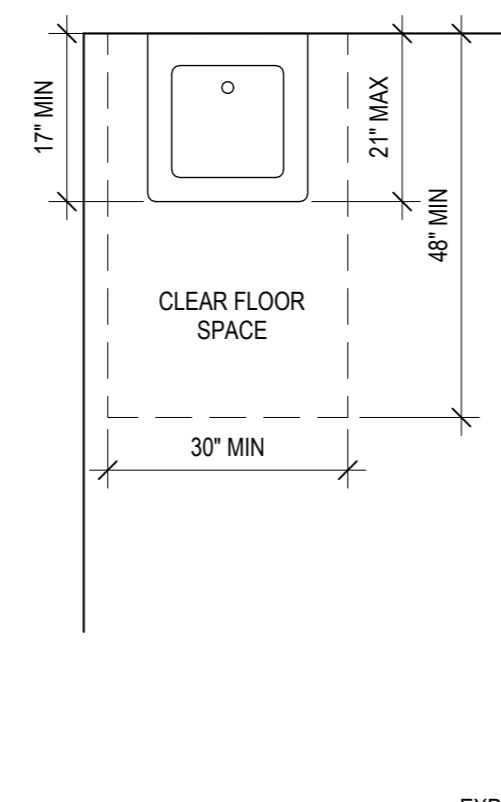


SPACE NEEDED TO
TURN A WHEELCHAIR

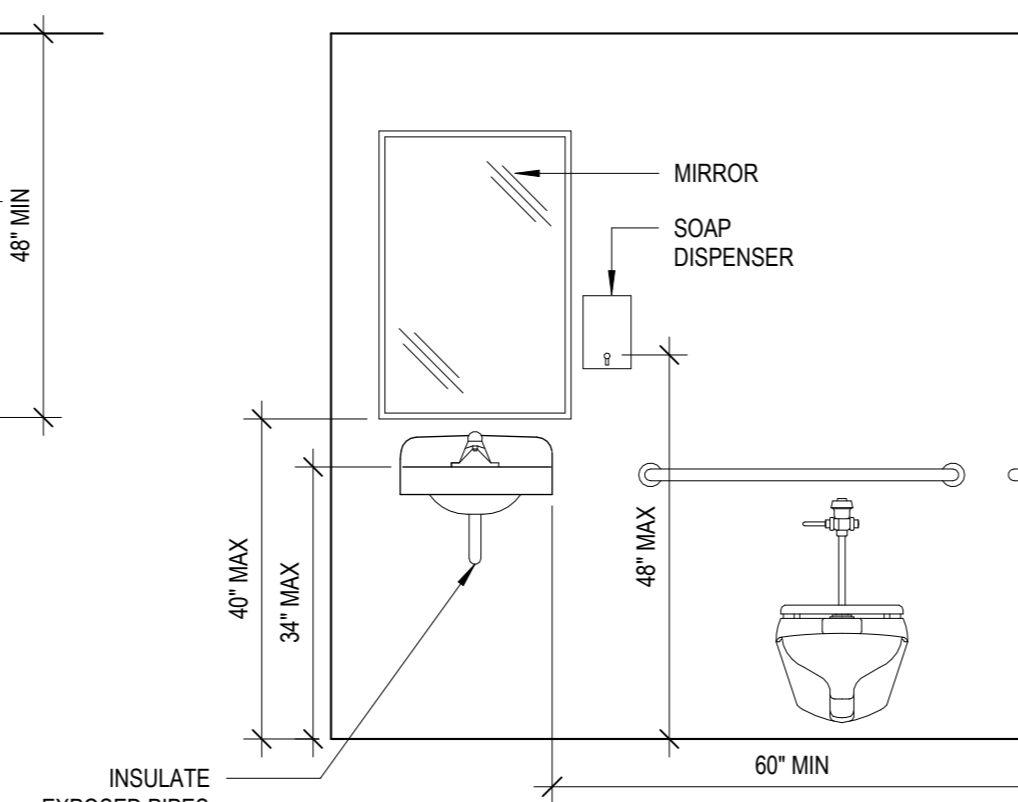
REF:
ADA: 304.3
ANSI: 304.3

1 SWINGING DOOR APPROACH
1/2" = 1'-0"

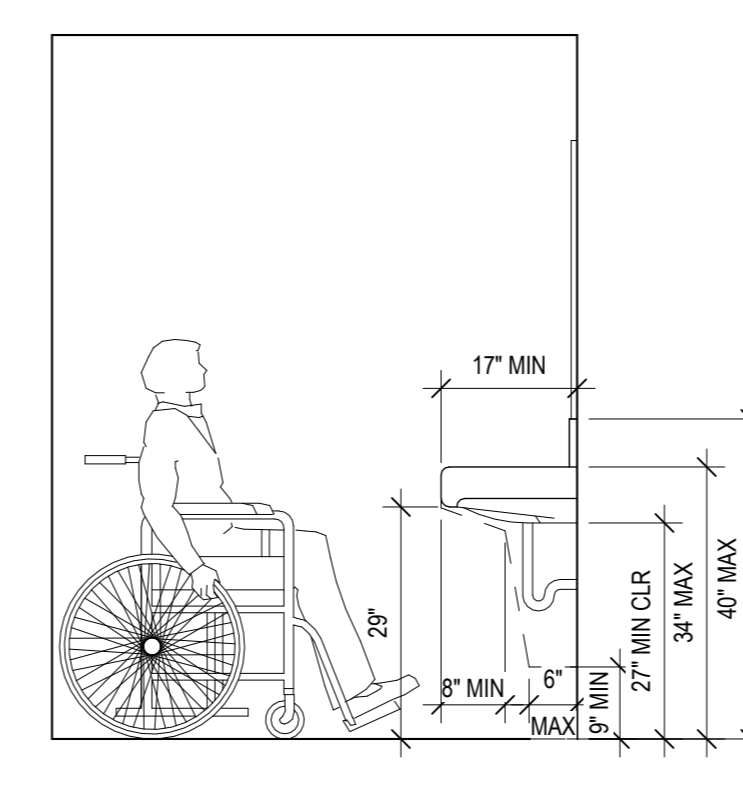
2 WHEELCHAIR TURNING RADIUS
1/2" = 1'-0"



A. PLAN

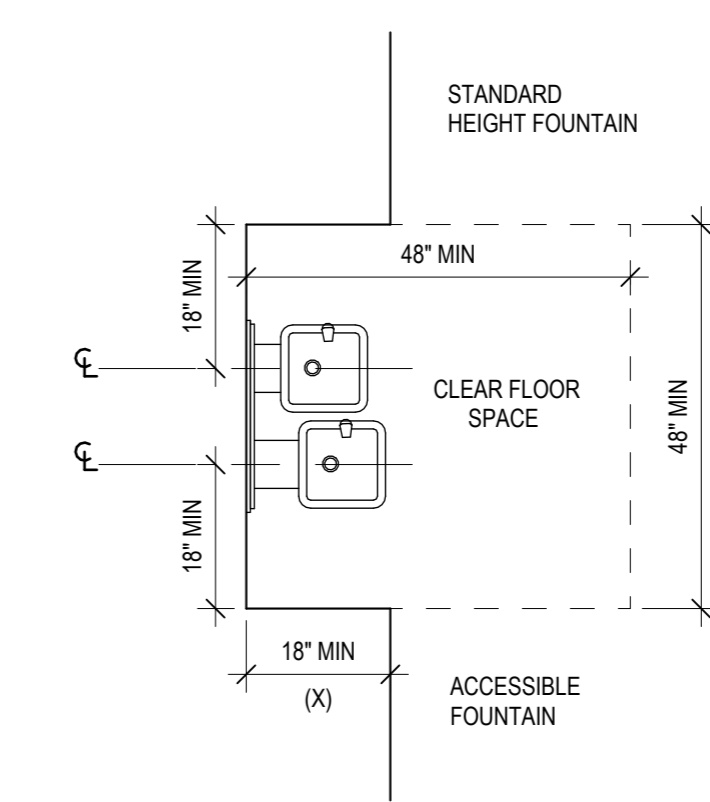


B. FRONT ELEVATION



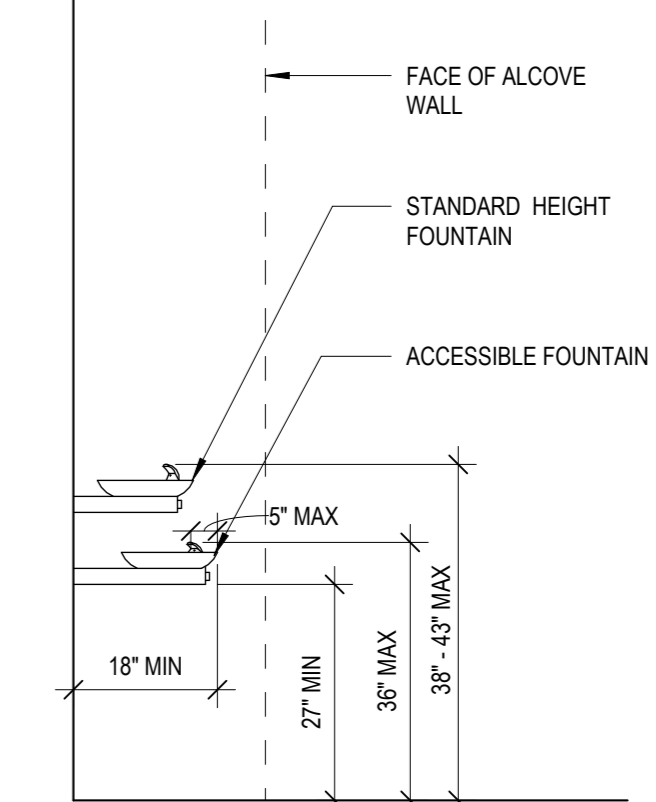
C. SIDE ELEVATION

REF:
ADA: 603.3, 604.3.2, 606.1, 606.5
ANSI: 606.1



A. PLAN

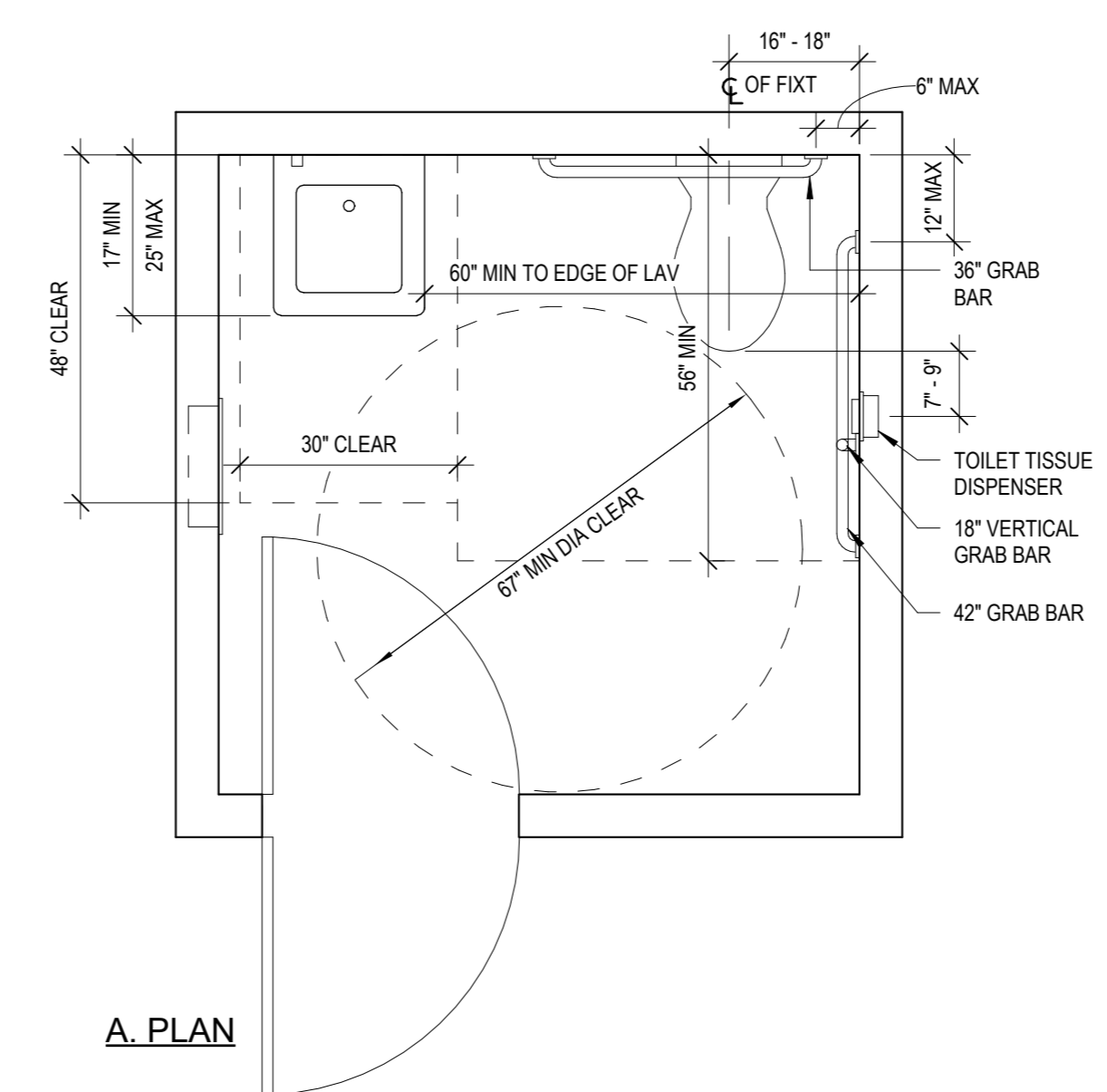
THIS DETAIL



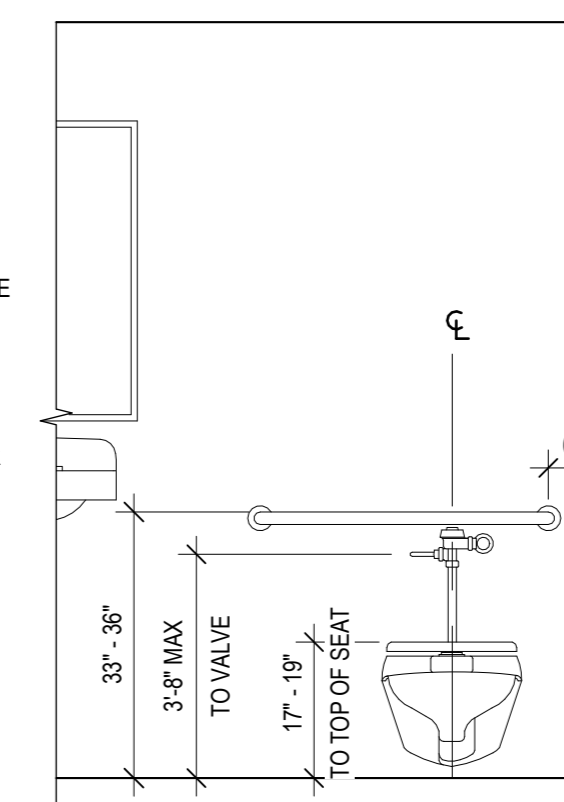
B. SIDE ELEVATION

3 ACCESSIBLE LAVATORY
1/2" = 1'-0"

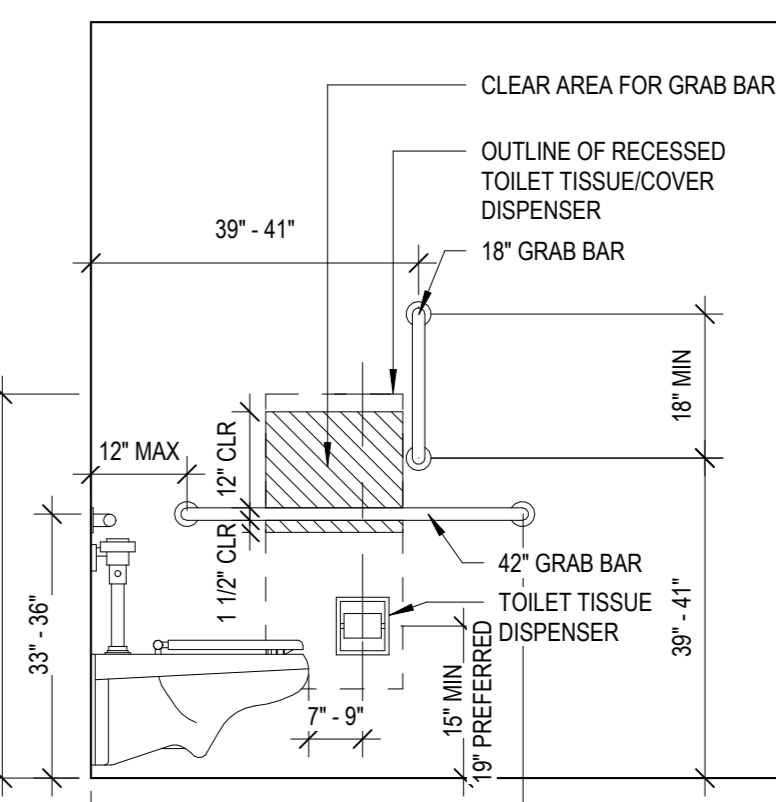
4 DRINKING FOUNTAIN HI - LOW
1/2" = 1'-0"



A. PLAN



B. FRONT ELEVATION



C. SIDE ELEVATION

REF:
ADA: 603.2, 604.2, 604.3.2, 604.7, 604.8,
609.1
ANSI: 604.4

5 SINGLE-ACCOMMODATION TOILET ROOM
1/2" = 1'-0"

NOTE: ALL MEASUREMENTS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KG+D ARCHITECTS, PC. NO PART OF THIS DRAWING SHALL 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, WITHOUT THE WRITTEN PERMISSION OF KG+D.

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Professional Seal

| No. | Date | Issue |
|-----|------------|------------------------|
| 4 | 06/05/2024 | ISSUED FOR BID |
| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title

**ACCESSIBILITY
DIAGRAMS**

Job No. 2020-1005 Date 01/17/18

Scale AS NOTED Drawn / Checked - -

Sheet Number

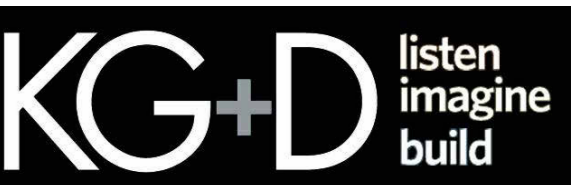
G002

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

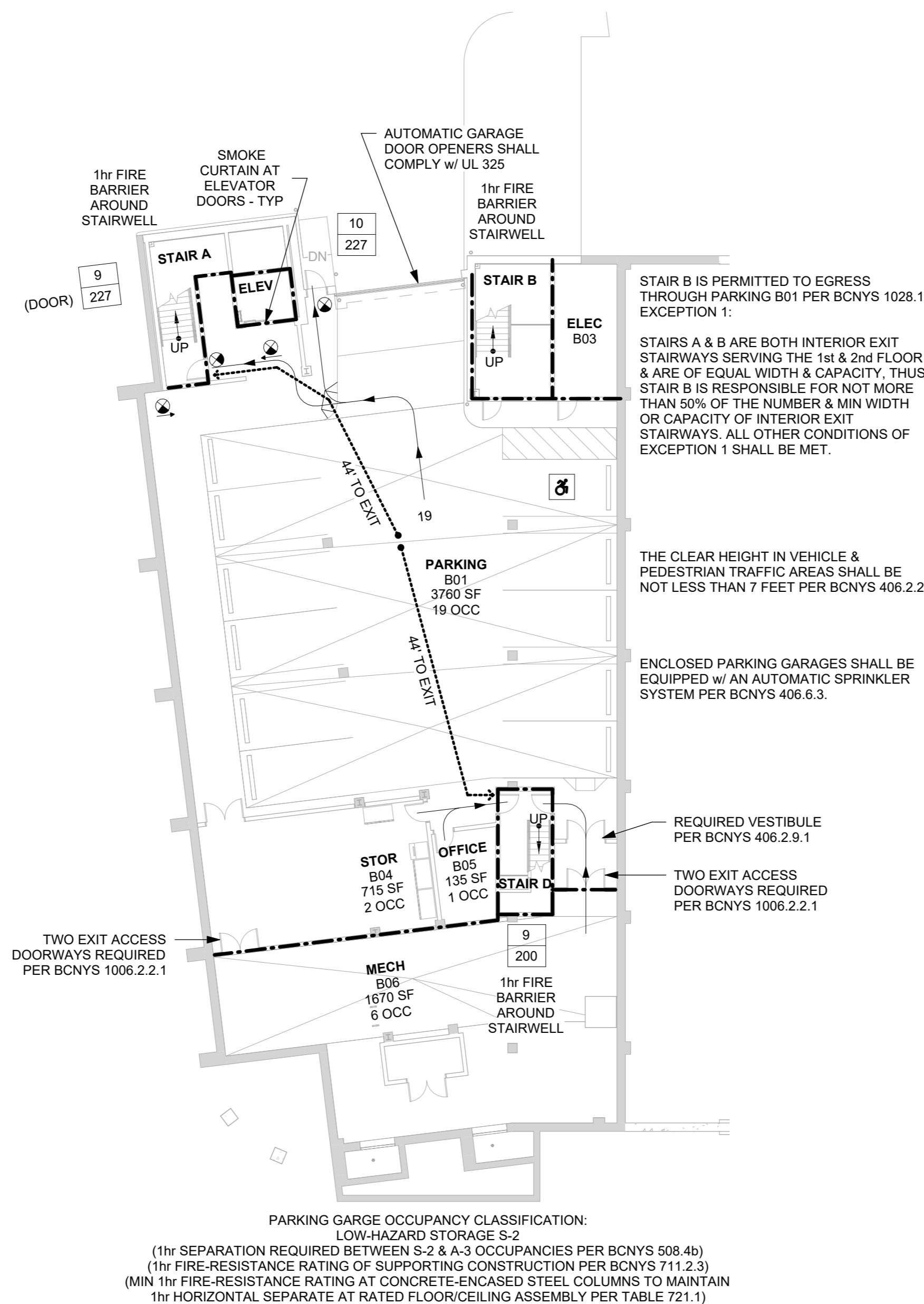
LEGEND

- 2 HR FIRE BARRIER
- - - 1 HR FIRE PARTITION
- MEANS OF EGRESS PATHWAY
- RW RESCUE WINDOW
- FEC FIRE EXTINGUISHER CABINET
- AR AREA OF REFUGE
- X ACTUAL EGRESS OCCUPANCY LOAD
- Y MAXIMUM ALLOWABLE EGRESS OCCUPANCY LOAD
- ADA ACCESSIBLE EXIT

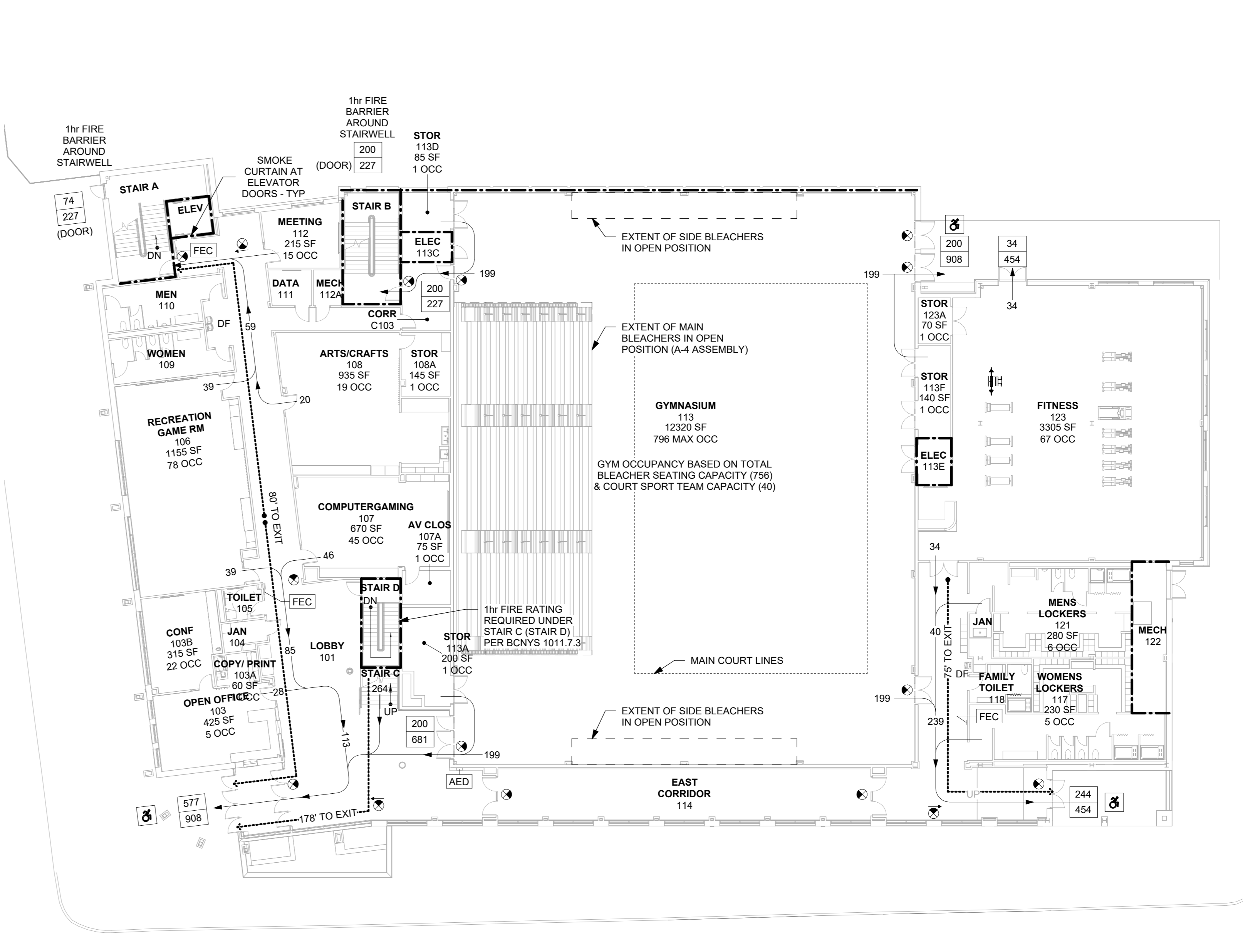
| OCCUPANCY TABLE - LOWER LEVEL | | | | | | |
|-------------------------------|--------|---------|---------------|-------------|---------------|----------|
| ROOM NAME | ROOM # | AREA | OCCUPANCY USE | CODE FACTOR | OCCUPANT LOAD | COMMENTS |
| BUSINESS OFFICE | B05 | 135 SF | BUSINESS | 100 | 1 | |
| PARKING | B01 | 3759 SF | PARKING | 200 | 19 | |
| STORAGE | | | | | | |
| STOR | B04 | 716 SF | STORAGE | 300 | 2 | |
| MECH | B06 | 1669 SF | STORAGE | 300 | 6 | |
| ELEC/VP ROOM | B08 | 66 SF | STORAGE | 300 | 0 | |
| Grand total: 5 | | 6345 SF | | | 28 | |

| OCCUPANCY TABLE - 1st FLOOR | | | | | | |
|-----------------------------|--------|----------|---------------|-------------|-----------------|----------------------------|
| ROOM NAME | ROOM # | AREA | OCCUPANCY USE | CODE FACTOR | OCCUPANT LOAD | COMMENTS |
| ASSEMBLY | 103A | 60 SF | ASSEMBLY | 100 | 1 | |
| COPY/PRINT | 106 | 1155 SF | ASSEMBLY | 15 | 78 | |
| COMPUTER GAMING | 107 | 670 SF | ASSEMBLY | 15 | 45 | |
| ARTS/CRAFTS | 108 | 935 SF | ASSEMBLY | 50 | 19 | |
| MEETING | 112 | 215 SF | ASSEMBLY | 15 | 15 | |
| GYMNASIUM | 113 | 12320 SF | ASSEMBLY | 7 | 1761 | POSTED MAX OCCUPANCY = 796 |
| WOMENS LOCKERS | 117 | 230 SF | ASSEMBLY | 50 | 5 | |
| MENS LOCKERS | 121 | 280 SF | ASSEMBLY | 50 | 6 | |
| FITNESS | 123 | 3305 SF | ASSEMBLY | 50 | 67 | |
| BUSINESS | | | | | | |
| OPEN OFFICE | 103 | 425 SF | BUSINESS | 100 | 5 | |
| CONF | 103B | 315 SF | BUSINESS | 15 | 22 | |
| STORAGE | | | | | | |
| AV CLOS | 107A | 75 SF | STORAGE | 300 | 1 | |
| STOR | 108A | 145 SF | STORAGE | 300 | 1 | |
| STOR | 113A | 200 SF | STORAGE | 300 | 1 | |
| STOR | 113D | 85 SF | STORAGE | 300 | 1 | |
| STOR | 113F | 140 SF | STORAGE | 300 | 1 | |
| STOR | 123A | 70 SF | STORAGE | 300 | 1 | |
| Grand total: 17 | | 20640 SF | | | 269 (EXCL. GYM) | |

| OCCUPANCY TABLE - 2nd FLOOR | | | | | | |
|-----------------------------|--------|---------|---------------|-------------|---------------|----------|
| ROOM NAME | ROOM # | AREA | OCCUPANCY USE | CODE FACTOR | OCCUPANT LOAD | COMMENTS |
| ASSEMBLY | 200 | 993 SF | ASSEMBLY | 5 | 199 | |
| VIEWING | 200A | 277 SF | ASSEMBLY | 15 | 18 | |
| MULTI-PURPOSE | 202 | 2015 SF | ASSEMBLY | 15 | 134 | |
| MULTI-PURPOSE | 203 | 1357 SF | ASSEMBLY | 15 | 90 | |
| TRACK | 213 | 3694 SF | ASSEMBLY | 50 | 74 | |
| BUSINESS | | | | | | |
| PANTRY | 206 | 207 SF | BUSINESS | 100 | 2 | |
| OPEN OFFICE | 212 | 246 SF | BUSINESS | 100 | 2 | |
| OFFICE | 212A | 151 SF | BUSINESS | 100 | 2 | |
| CONF | 212B | 163 SF | BUSINESS | 15 | 11 | |
| Grand total: 9 | | 9102 SF | | | 533 | |



1 CODE COMPLIANCE PLAN - LOWER LEVEL
1/16" = 1'-0"



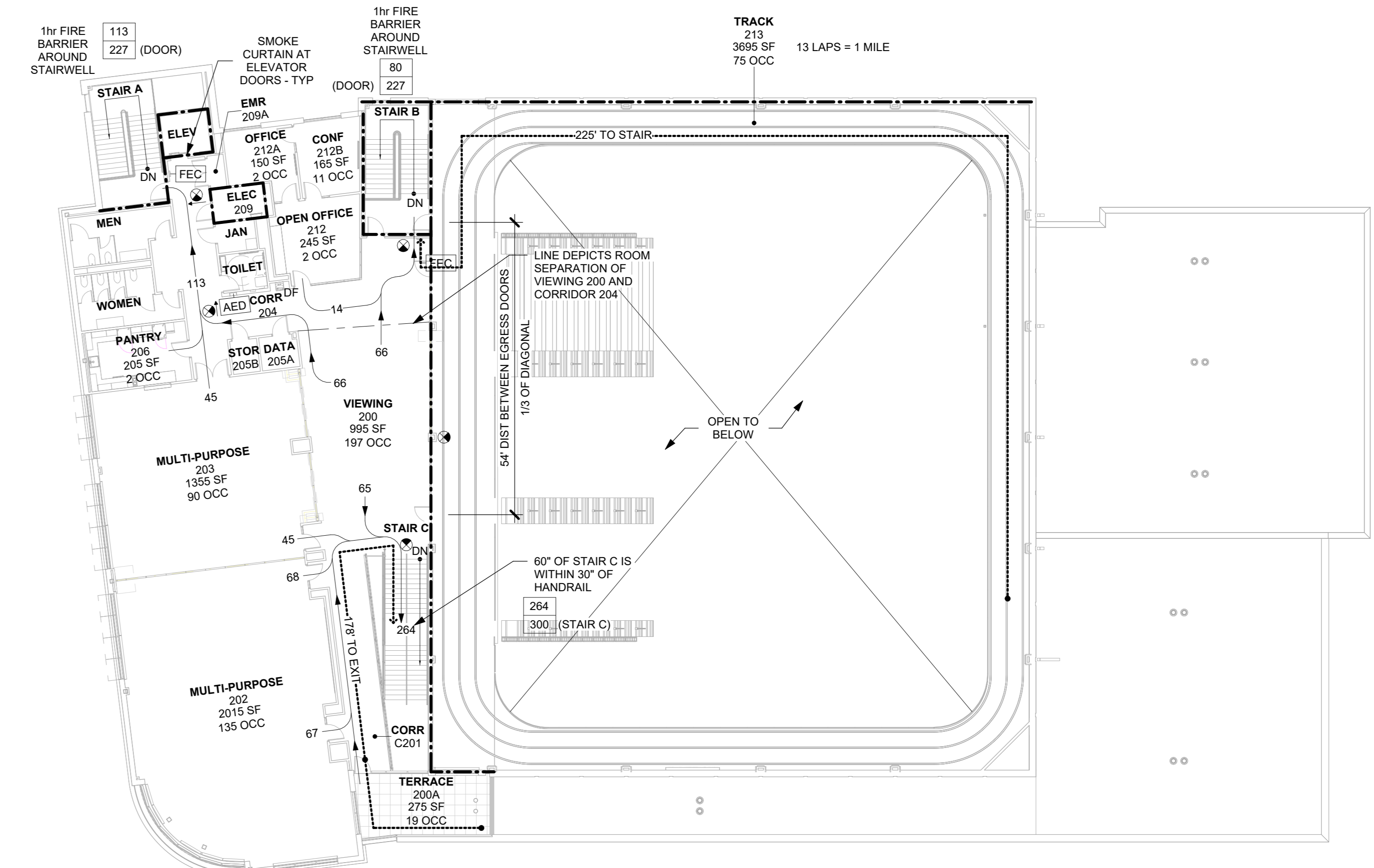
1 CODE COMPLIANCE PLAN - 1st FLOOR
1/16" = 1'-0"

DOOR CAPACITY CALCULATIONS (GENERAL)
AT 36" WIDE SINGLE DOORS, 34" CLEAR EGRESS WIDTH SHALL BE PROVIDED
34" / 0.15" PER OCCUPANT = 227 OCCUPANT CAPACITY
AT 72" WIDE DOUBLE DOORS, 68" CLEAR EGRESS WIDTH SHALL BE PROVIDED
68" / 0.15" PER OCCUPANT = 454 OCCUPANT CAPACITY

DOOR CAPACITY CALCULATIONS (OVERALL)
LOWER LEVEL
REQUIRED: 29 OCCUPANTS X 0.15" PER OCCUPANT = 5"
PROVIDED: 102"
1st FLOOR (EXCL. GYM)
REQUIRED: 269 OCCUPANTS X 0.15" PER OCCUPANT = 41"
PROVIDED: 272"
2nd FLOOR
REQUIRED: 458 OCCUPANTS X 0.15" PER OCCUPANT = 69"
PROVIDED: 188"

DOOR CAPACITY CALCULATIONS (GYMNASIUM)
REQUIRED: 796 OCCUPANTS X 0.15" PER OCCUPANT = 120"
PROVIDED: 340"

STAIR CAPACITY CALCULATIONS
STAIR A
PROVIDED: 64" (0.2" PER OCCUPANT = 320 OCCUPANT CAPACITY)
STAIR B
PROVIDED: 64" (0.2" PER OCCUPANT = 320 OCCUPANT CAPACITY)
STAIR C
PROVIDED: 60" (0.2" PER OCCUPANT = 300 OCCUPANT CAPACITY)
STAIR D
PROVIDED: 40" (0.2" PER OCCUPANT = 200 OCCUPANT CAPACITY)



2 CODE COMPLIANCE PLAN - 2nd FLOOR
1/16" = 1'-0"

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Professional Seal

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| 4 | 06/05/2024 | ISSUED FOR BID |
| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

CODE COMPLIANCE INFORMATION

| | | | |
|--------------|-----------|-----------------|------------|
| Job No. | 2020-1005 | Date | 06/01/2020 |
| Scale | AS NOTED | Drawn / Checked | - / - |
| Sheet Number | CC002 | | |

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 1

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS



Vicinity Map

TAX LOTS 31 AND 33
Premises hereon being Lots 582 and 583 as shown on a certain map entitled, "2nd Map of Brentwood Plaza."
Said map filed in the Westchester County Clerk's Office, Division of Land Records July 27, 1892 as map number 1034.
Premises hereon being Lot 584 as shown on a certain map entitled, "4th Map of Brentwood Plaza."
Said map filed in the Westchester County Clerk's Office, Division of Land Records May 31, 1894 as map number 1114.

Surveyed in accordance with Deed Control Number 572483257.

Premises shown hereon designated on the Town of Harrison Tax Maps as Block 253, Lots 31 and 33.

Property Address: 260 Harrison Avenue
Harrison, NY 10528

TAX LOT 28
Premises hereon being Lot 585 as shown on a certain map entitled, "4th Map of Brentwood Plaza."
Said map filed in the Westchester County Clerk's Office, Division of Land Records May 31, 1894 as map number 1114.
Premises hereon being Lots A and B as shown on a certain map entitled, "Map of Lots Belonging to Mary B. Purdy."
Said map filed in the Westchester County Clerk's Office, Division of Land Records February 23, 1905 as map number 1464.

Premises shown hereon designated on the Town of Harrison Tax Maps as Block 253, Lot 28.

Property Address: 270 Harrison Avenue
Harrison, NY 10528

TAX LOT 34
Premises hereon being Lots 579, 580 and 581 as shown on a certain map entitled, "2nd Map of Brentwood Plaza."
Said map filed in the Westchester County Clerk's Office, Division of Land Records July 27, 1892 as map number 1034.

Surveyed in accordance with Deed Control Number 532243364.

Premises shown hereon designated on the Town of Harrison Tax Maps as Block 253, Lot 34.

Property Address: Calvert Street
Harrison, NY 10528

TAX LOT 37
Premises hereon being Lots 575, 576, 577 and 578 as shown on a certain map entitled, "2nd Map of Brentwood Plaza."
Said map filed in the Westchester County Clerk's Office, Division of Land Records July 27, 1892 as map number 1034.

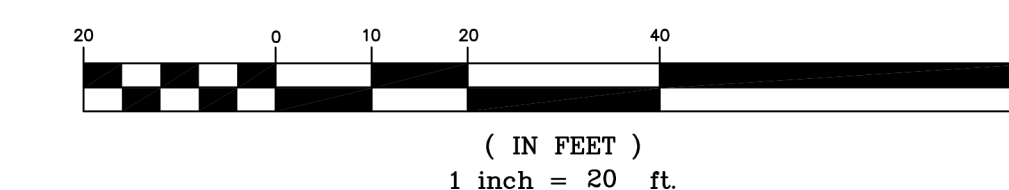
Premises shown hereon designated on the Town of Harrison Tax Maps as Block 253, Lot 37.

Property Address: 14 Calvert Street
Harrison, NY 10528

**TOPOGRAPHY OF PROPERTY
PREPARED FOR
TOWN OF HARRISON
SITUATE IN THE
TOWN OF HARRISON
WESTCHESTER COUNTY, NEW YORK**

SCALE: 1" = 20'

GRAPHIC SCALE



| | |
|-------------------------|-----------------------|
| Project: 17-356 | Reference: 10-216 |
| Field Survey By: DVC | Drawn By: DVC |
| Project Manager: BFC | Checked By: BFC/DM |

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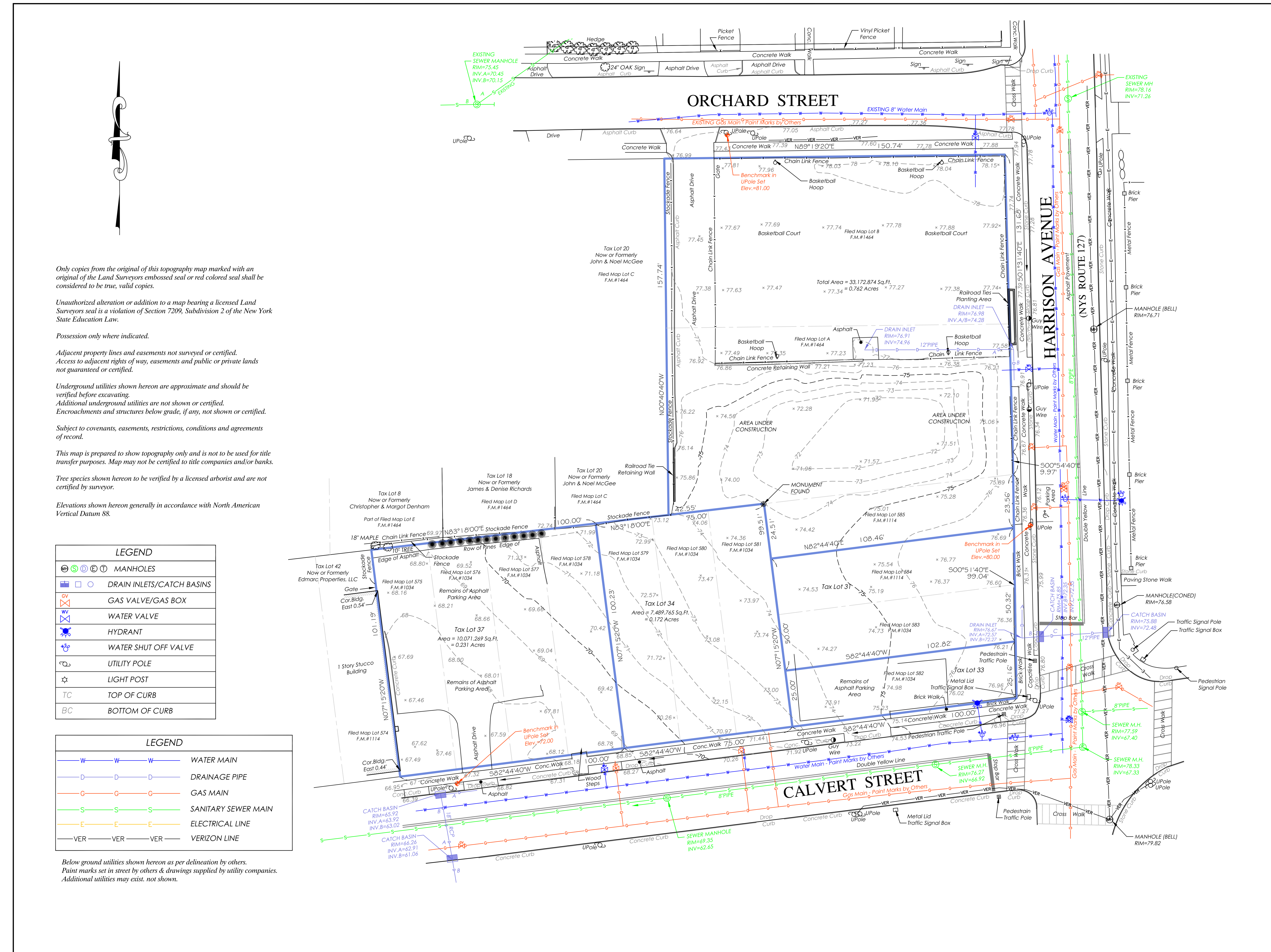
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**TOPOGRAPHIC
SURVEY 2023**

| | |
|----------------------|------------------------|
| Job No. 2020-1005 | Date 09/05/2023 |
| Scale AS NOTED | Drawn / Checked -/- |
| Sheet Number | |

V-001



LEGEND

| |
|---------------------------|
| MANHOLES |
| DRAIN INLETS/CATCH BASINS |
| GAS VALVE/GAS BOX |
| WATER VALVE |
| HYDRANT |
| WATER SHUT OFF VALVE |
| UTILITY POLE |
| LIGHT POST |
| TOP OF CURB |
| BOTTOM OF CURB |

LEGEND

| | | | |
|-----|-----|-----|---------------------|
| W | W | W | WATER MAIN |
| D | D | D | DRAINAGE PIPE |
| G | G | G | GAS MAIN |
| S | S | S | SANITARY SEWER MAIN |
| E | E | E | ELECTRICAL LINE |
| VER | VER | VER | VERIZON LINE |

Below ground utilities shown hereon as per delineation by others.
Paint marks set in street by others & drawings supplied by utility companies.
Additional utilities may exist, not shown.

Only copies from the original of this topography map marked with an original of the Land Surveyors embossed seal or red colored seal shall be considered to be true, valid copies.

Unauthorized alteration or addition to a map bearing a licensed Land Surveyors seal is a violation of Section 7209, Subdivision 2 of the New York State Education Law.

Possession only where indicated.

Adjacent property lines and easements not surveyed or certified.
Access to adjacent rights of way, easements and public or private lands not guaranteed or certified.

Underground utilities shown hereon are approximate and should be verified before excavating.
Additional underground utilities are not shown or certified.
Encroachments and structures below grade, if any, not shown or certified.

Subject to covenants, easements, restrictions, conditions and agreements of record.

This map is prepared to show topography only and is not to be used for title transfer purposes. Map may not be certified to title companies and/or banks.

Tree species shown hereon to be verified by a licensed arborist and are not certified by surveyor.

Elevations shown hereon generally in accordance with North American Vertical Datum 88.

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TC MERRITTS LAND SURVEYORS
394 BEDFORD ROAD • PLEASANTVILLE • NY 10570
(914) 769-8003 • survey@tcmeritts.com



Surveyed: October 7, 2017
Map Prepared: October 17, 2017
Map Revised: February 18, 2019 to show structures and topography on Tax Lots 34 and 37.
Map Revised: September 5, 2023 to show updated topography.

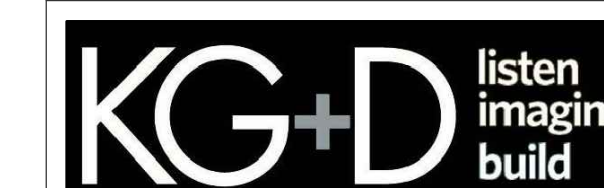
By: *Daniel T. Merritt*
New York State Licensed Land Surveyor No.050604

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



KG+D ARCHITECTS, PC
285 MAIN STREET - MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM



CONSTRUCTION DOCUMENTS

GENERAL NOTES:

- UNLESS OTHERWISE NOTED ALL ITEM NUMBERS FOR SPECIFIC WORK TASKS RELATE TO THE NEW YORK STATE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL EXISTING AND GIVEN CONDITIONS, ELEVATIONS AND DIMENSIONS SHOWN ON THE PLANS. IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL MAKE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS, AS APPROVED BY THE ENGINEER. ALL FIELD CONDITIONS AND DIMENSIONS SHALL BE NOTED ON THE AS-BUILT DRAWINGS SUBMITTED FOR APPROVAL.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF CONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH FIELD CONDITIONS.
- THE CONTRACTOR IS ADVISED THAT ADDITIONAL NOTES WILL BE FOUND ON SUBSEQUENT SHEETS OF THE PLANS AND SUCH NOTES, WHILE PERTAINING TO THE SPECIFIC DRAWINGS THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.
- IF THE ENGINEER NOTIFIES THE CONTRACTOR OF ANY HAZARDOUS CONSTRUCTION PRACTICES, ALL OPERATIONS IN THE AFFECTED AREA SHALL BE DISCONTINUED AND IMMEDIATE ACTION SHALL BE TAKEN TO CORRECT THE SITUATION TO THE SATISFACTION OF THE ENGINEER BEFORE WORK IS RESUMED.
- ALL EXISTING PAVEMENT AND SHOULDER SURFACES THAT ARE TO BE RESURFACED SHALL BE CLEANED IN ACCORDANCE WITH SECTION 633 (CONDITIONING OF EXISTING PAVEMENT) OF THE NYS DOT STANDARD SPECIFICATIONS.
- ALL EXISTING TRAFFIC SIGNS REMOVED BY THE CONTRACTOR WITH A NYS DOT STICKER ON THE BACK OF THE PANEL SHALL BECOME THE PROPERTY OF THE NYS DOT. SIGNS WILL BE STORED AND LOCAL STATE RESIDENCY NOTIFIED FOR PICKUP. ALL OTHER EXISTING SIGNS SHALL BECOME THE PROPERTY OF TOWN OF MALTA.
- ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS.
- THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING EDGE OF PAVEMENT ALONG ALL RIGHTS-OF-WAY.
- SUBMITTALS, CATALOG CUTS, SAMPLES, AND SHOP DRAWINGS MUST BE RECEIVED, REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ORDERING OR FABRICATION OF MATERIALS AND PRIOR TO INSTALLATION OF MATERIALS. FAILURE TO DO SO MAY RESULT IN TIME DELAYS. THE CONTRACTOR WILL NOT BE ENTITLED TO COMPENSATION FOR SAID TIME DELAYS, REMOVALS, OR REPLACEMENTS.
- THE CONTRACTOR SHALL PROVIDE AN ACI CERTIFIED CONCRETE FLAT WORK FINISHER TO SUPERVISE ALL HAND FINISHING PER THE STANDARD SPECIFICATION. CERTIFICATION SHALL BE PROVIDED TO THE ENGINEER.

GRADING NOTES:

- ALL GRADES SET IN THE FIELD TO BE COMPLETED BY A NEW YORK STATE LICENSED LAND SURVEYOR.
- CONTRACTOR SHALL PROVIDE DUST AND EROSION AND SEDIMENTATION CONTROL AS SHOWN ON THE PLANS AND/OR AS DIRECTED BY ENGINEER.
- CONTRACTOR SHALL BLEND ALL NEW EARTHWORK INTO EXISTING GRADES AT LIMITS OF GRADING WORK. PROVIDE SMOOTH, ROUNDED TRANSITIONS AT ALL TOP AND BOTTOM OF SLOPES.
- EXCAVATION REQUIRED WITHIN 3 FEET OF EXISTING UTILITY LINES SHALL BE DONE BY HAND; DO NOT EXCAVATE SOIL WITH MACHINERY. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS.
- PRIOR TO PROJECT CLOSE-OUT, CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS FROM SITE. ALSO, ANY DAMAGE TO FIELD OR FACTORY APPLIED FINISHES SHALL BE REPAIRED.

ENVIRONMENTAL NOTES:

- DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO THE WATERS OF NEW YORK STATE, NOR SHALL WASHINGS FROM REDI-MIX TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLAND OR WATERS. DESIGNATED WASH OUT AREAS TO BE APPROVED BY THE ENGINEER IN CHARGE.

UTILITY NOTES:

- LOCATION OF UTILITIES, PUBLIC AND/OR PRIVATE, INDICATED ON THE PLANS AS EXISTING AND/OR TO BE CONSTRUCTED ARE APPROXIMATE ONLY. THEIR EXACT LOCATION SHALL BE DETERMINED IN THE FIELD. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT HIS OR HER OPERATIONS, AND TAKE NECESSARY PRECAUTIONS SUCH THAT INTERFERENCE WITH OR DAMAGE TO THESE OR OTHER FACILITIES DURING THE COURSE OF CONSTRUCTION IS PREVENTED.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CALL "DIG SAFELY" (1-800-962-7962) TO HAVE UNDERGROUND UTILITIES LOCATED.

RIGHT OF WAY NOTES:

- ALL WORK TO BE PERFORMED UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF-WAY (ROW) IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS BEING PERFORMED WITHIN THE ROW, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS, DEBRIS AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THE INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIERS.
- IF THE CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHTS-OF-WAY WHEN THE CONTRACT CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTACT THE SURVEYOR OF RECORD (SEE SURVEY NOTE 1) FOR DEFINITIVE BOUNDARY DETERMINATIONS BEFORE ANY WORK MAY BE INITIATED AT THOSE LOCATIONS (STANDARD SPECIFICATIONS SECTIONS 105-10 AND 625).
- THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE, ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORY REPAIRED OR ITEMS PLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS SECTION 107-08).

EROSION AND SEDIMENT CONTROL NOTES:

- THE CONTRACTOR UNDERTAKING SITE CONSTRUCTION OF THIS PROJECT MUST SIGN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) CERTIFICATION AND BE FAMILIAR WITH ALL REQUIREMENTS OF THE SWPPP AND REQUIREMENTS OF THE NYS DEC SPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITY PERMIT NO. GP-0-20-001.
- THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH THE TERMS OF THE NYS DEC SPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITY, PERMIT NO. GP-0-20-001. A COPY OF THE GENERAL PERMIT IS LOCATED IN THE SWPPP.
- A NOTICE OF INTENT (NOI) MUST BE SUBMITTED TO DEC IN ACCORDANCE WITH SPDES PERMIT NO. GP-0-20-001, A MINIMUM OF 5 DAYS PRIOR TO INITIATING WORK.
- THE SWPPP INCLUDES INFORMATION BASED ON THESE PLANS AND THE STORM WATER MANAGEMENT REPORT.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL HAVE THE ENGINEER CONDUCT AN ASSESSMENT OF THE SITE AND CERTIFY IN AN INSPECTION REPORT THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROLS HAVE BEEN ADEQUATELY INSTALLED. FOLLOWING COMMENCEMENT OF CONSTRUCTION, THE ENGINEER SHALL MAKE WEEKLY SITE INSPECTIONS AND SHALL PREPARE A REPORT AS REQUIRED BY THE GP-0-20-001.
- THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL INSPECTION REPORTS IN A SITE LOG BOOK, TO BE MAINTAINED ON SITE AND AVAILABLE TO THE PERMITTING AUTHORITIES UPON REQUEST.
- AT THE END OF EACH CONSTRUCTION DAY THE CONTRACTOR SHALL STREET SWEEP ADJACENT PUBLIC ROADS, INTERIOR SITE DRIVES AND PARKING AREAS TO REMOVE ANY DEBRIS FROM THE PAVED SURFACE. CLEAN STORM WATER STRUCTURES OF SEDIMENT FOLLOWING FINAL PAVING.
- AT COMPLETION OF CONSTRUCTION, THE SWPPP INSPECTOR AND THE MS4 (IF APPLICABLE) SHALL PERFORM A FINAL INSPECTION TO CERTIFY THAT THE SITE HAS UNDERGONE FINAL STABILIZATION AND THAT ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS HAVE BEEN REMOVED. UPON COMPLETION OF CONSTRUCTION THE SWPPP MONITORING PROFESSIONAL SHALL PERFORM THE FINAL INSPECTION WITH THE SITE CONTRACTOR AND CERTIFY THAT THE POST CONSTRUCTION STORMWATER PRACTICES HAVE BEEN INSTALLED PER THE SWPPP UPON CERTIFICATION OF COMPLETION A NOTICE OF TERMINATION (NOT) SHALL BE FILED WITH NYSDEC.
- THE TOWN OF HARRISON IS RESPONSIBLE FOR POST CONSTRUCTION MAINTENANCE AND OPERATIONS.
- CONTRACTOR SHALL UTILIZE TEMPORARY PROTECTION MEASURES LEFT ONSITE FROM THE PHASE 1 CONSTRUCTION (INCLUDING STABILIZED CONSTRUCTION ACCESS, TEMPORARY CONSTRUCTION FENCE, & INLET PROTECTION) AND SHALL MAINTAIN SAME FOR THE DURATION OF CONSTRUCTION.

SURVEY NOTES:

- BASE MAPPING WITHIN ORCHARD STREET, HARRISON AVENUE, AND CALVERT STREET RIGHTS-OF-WAY PREPARED BY T.C. MERRITT'S LAND SURVEYORS, 394 BEDFORD ROAD, PLEASANTVILLE, NY 10570, LAST REVISED SEPTEMBER 5, 2023.

ACCESS AND NOTIFICATION NOTES:

- THE CONTRACTOR SHALL PROVIDE SAFE AND ADEQUATE ACCESS INTO OR THROUGH THE WORK SITE BY EMERGENCY VEHICLES AT ALL TIMES.
- THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE NYS SUPPLEMENT, AND EFFORTS SHALL BE COORDINATED WITH THE ENGINEER, AND/OR THE TOWN. TEMPORARY PAVEMENT SHALL BE PLACED WITHIN 48 HOURS OF COMPLETION OF EXCAVATION AND BACKFILL OPERATIONS WITHIN THE PAVEMENT LIMITS.
- THE CONTRACTOR SHALL NOTIFY THE STATE AND/OR THE TOWN 72 HOURS PRIOR TO ANY STREET OR LANE CLOSURES OR ANY WORK AFFECTING TRAFFIC SIGNALS.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL AND RESIDENTIAL PROPERTIES AT ALL TIMES TO THE SATISFACTION OF THE ENGINEER. RAMPING CONSTRUCTION TO PROVIDE ACCESS MAY BE CONSTRUCTED WITH SUBBASE MATERIAL EXCEPT THAT TEMPORARY ASPHALT CONCRETE SHALL BE PLACED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE PEDESTRIAN ACCESS AT ALL TIMES.

PROJECT SPECIFIC NOTES:

- THE CONTRACTOR SHALL NOT BEGIN WARMING UP HIS OR HER EQUIPMENT BEFORE 7:30 AM, NOR KEEP THE EQUIPMENT RUNNING AFTER 8:00 PM. MAINTENANCE OF EQUIPMENT ON SITE WHICH REQUIRES THE EQUIPMENT TO BE RUNNING SHALL BE APPROVED BY THE ENGINEER IF THE MAINTENANCE IS PERFORMED OUTSIDE THE WORK HOUR RESTRICTIONS.
- THE CONTRACTOR SHALL SECURE A NYS DOT HIGHWAY WORK PERMIT (PERM 33). THE CONTRACTOR SHALL SECURE THE BONDS AND PAY ALL NYS DOT PERMIT FEES.
- IN ADDITION TO THE CURING REQUIREMENTS OF THE NYS DOT STANDARD SPECIFICATIONS, CONCRETE SIDEWALKS PLACED AFTER OCTOBER 15TH SHALL BE CURED USING WET BURLAP AND A PLASTIC COVERING, FOLLOWED BY A PENETRATING SEALER PRIOR TO THE FIRST FREEZE. THE COST FOR THESE ITEMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR THE PROJECT.
- IF IT IS DISCOVERED THAT THE MINIMUM CLEARANCES FROM PRIMARY AND/OR SECONDARY POWER CONDUCTORS AS REQUIRED BY SECTION 23 OF THE NATIONAL ELECTRIC SAFETY CODE (ANSI STANDARD C2-1997) AND LOCAL UTILITY CODES CANNOT BE ACHIEVED, THE UTILITY COMPANY OWNING SUCH CONDUCTORS SHALL BE NOTIFIED IN WRITING OF THE PROBLEM. NO FURTHER WORK SHALL BE DONE UNTIL SAID POWER LINES HAVE BEEN RELOCATED TO PROVIDE THE PROPER CLEARANCES.
- IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, HE SHALL IMMEDIATELY COMMENCE WORK TO RESTORE THAT SERVICE AT HIS OWN EXPENSE. HE SHALL NOT CEASE HIS WORK OPERATION UNTIL THAT SERVICE IS RESTORED.
- CONSTRUCTION TRAFFIC ON ORCHARD STREET IS PROHIBITED. APPROVAL IS REQUIRED FROM THE TOWN/VILLAGE OF HARRISON FOR ANY USE OF ORCHARD STREET.
- TRAFFIC CONTROL MEASURES, INCLUDING TRAVEL LANE AND SIDEWALK CLOSURES, SHALL BE INSTALLED PRIOR TO WORK ACTIVITY IN OR CLOSE TO THE PUBLIC RIGHT OF WAY, AND REMOVED AFTER WORK ACTIVITY HAS CEASED. LOCATION AND DURATION OF PERIODIC LANE CLOSURES SHALL BE DETERMINED BY THE CONTRACTOR IN COORDINATION WITH TOWN AUTHORITIES TO ACCOMMODATE ACCESS TO AND SAFETY AROUND WORK AREAS.
- REFER TO DWG C105 FOR TYPICAL WORK ZONE TRAFFIC CONTROL MEASURES.
- COORDINATE ON-SITE ACTIVITIES TO AVOID CONSTRUCTION TRAFFIC IN THE PARKING LOT OVER THE COMPLETED R-TANK STORMWATER DETENTION SYSTEM. NO LOADS HEAVIER THAN A STANDARD ASHTO HS-20 LOAD SHALL BE ALLOWED OVER THE SYSTEM AT ANY TIME.
- PAVING OF PARKING LOT ASPHALT TOP COURSE SHALL USE MAXIMUM 6 TON SMOOTH DRUM ROLLER IN STATIC MODE.

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| No. | Date | Issue |
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| 1 | 01/16/2024 | ISSUE FOR PERMIT |
| 2 | 06/05/2024 | ISSUE FOR BID - PHASE 2 |

Sheet Title

GENERAL NOTES

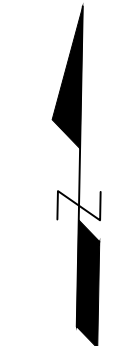
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| Job No. | 2020-1005 | Date | 01/24/2024 |
| Scale | AS NOTED | Drawn / Checked | TG/GB |

Sheet Number

C001

REMOVALS NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OWNER'S REPRESENTATIVE ON ALL MATERIALS TO BE REMOVED AND DISPOSED OF OFF SITE. ALL HANDLING OF MATERIALS TO BE REMOVED AND DISPOSED OF MUST BE DONE IN A SAFE, LEGAL MANNER, IN ACCORDANCE WITH ALL LOCAL, COUNTY, STATE, FEDERAL AND ANY OTHER APPLICABLE REGULATIONS.
- ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL UNLESS OTHERWISE NOTED.
- AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH AND SHARP EDGE AND PROTECTED UNTIL ABUTTING MATERIALS ARE INSTALLED.
- EXISTING CURB TO BE REPLACED SHALL BE COMPLETELY REMOVED.
- LIMIT OF WORK LINE IS COINCIDENT WITH THE LIMIT OF WORK (LW) LINE SHOWN. CONSTRUCTION FENCE SHALL BE RESTORED TO THE PERIMETER SHOWN AT THE END OF EVERY WORK DAY.

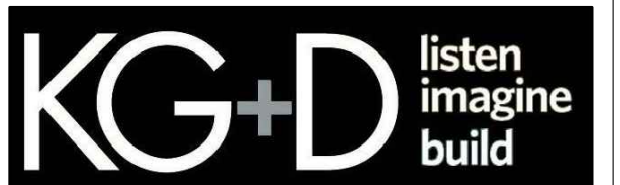


HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



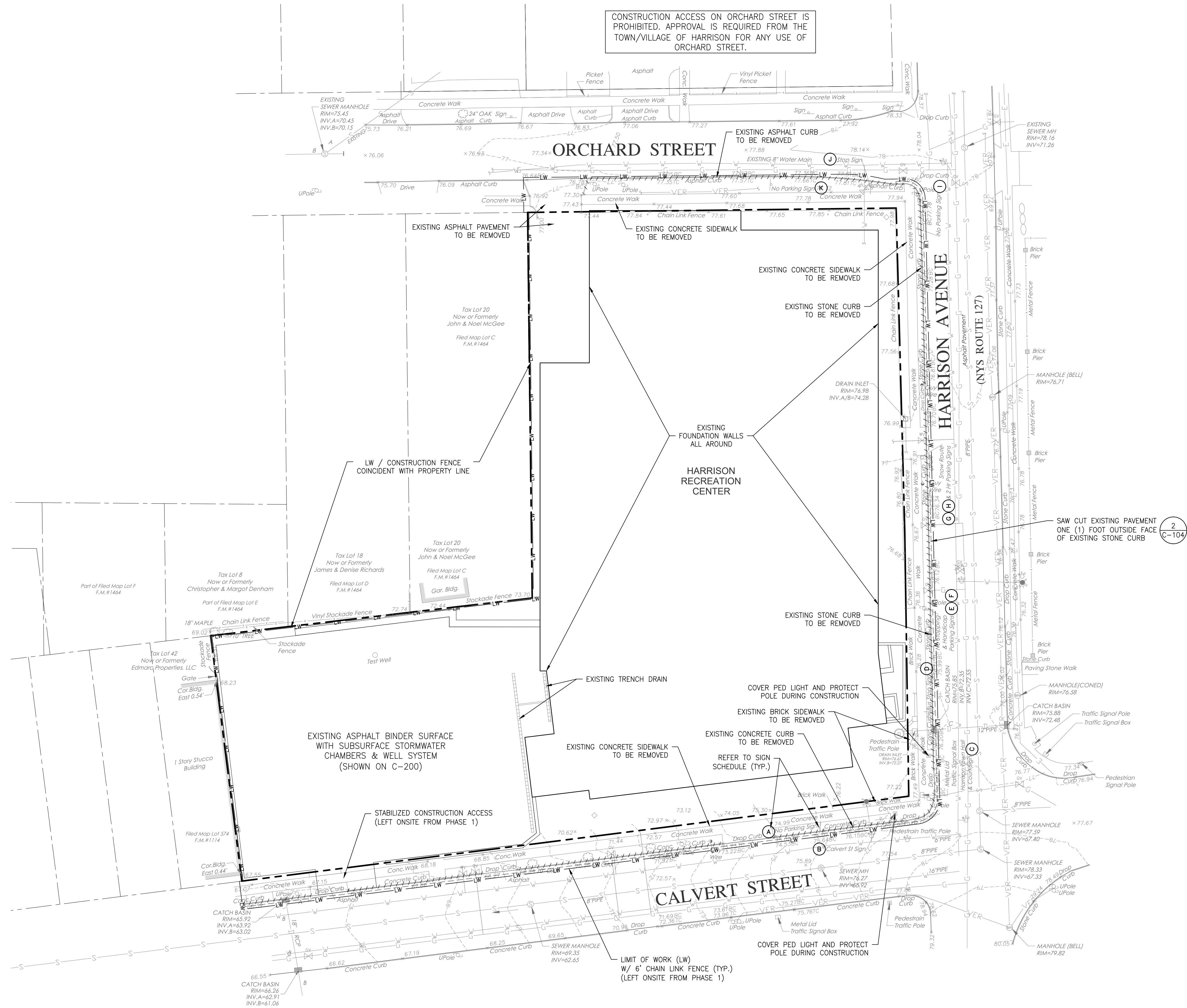
KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P: 914.686.5900 KG+DARCHITECTS.COM



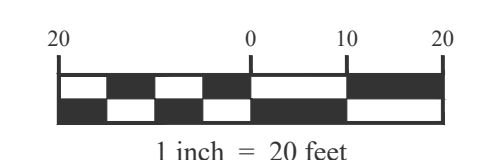
CREIGHTON MANNING ENGINEERING, LLP
3 WINNERS CIRCLE • ALBANY, NEW YORK 12204
P: (518) 456-0266 F: (518) 456-0267 WWW.CMELLP.COM

CONSTRUCTION DOCUMENTS

| SIGN SCHEDULE | | |
|---|--|--|
| (A) | | SIGN TO BE REMOVED |
| (B) | | SIGN TO BE TEMPORARILY REMOVED AND REMOUNTED (11) (C-104) |
| (C) | | SIGN TO REMAIN |
| (D) | | SIGN TO BE TEMPORARILY REMOVED AND REMOUNTED (11) (C-104) |
| (E) (F) | | SIGNS TO REMAIN |
| (G) (H) | | SIGNS TO REMAIN |
| (I) | | SIGN TO BE TEMPORARILY REMOVED AND REMOUNTED (11) (C-104) |
| (J) | | SIGN TO BE TEMPORARILY REMOVED AND REMOUNTED (11) (C-104) |
| (K) | | SIGN TO BE TEMPORARILY REMOVED AND REMOUNTED (11) (C-104) |
| (L) (M) | | NEW SIGNS TO BE ADDED (1 POST) TIMES AS SPECIFIED BY OWNER |
| SEE DWG L100 FOR NEW SIGNS IN PARKING LOT SEE DWG C101 FOR NEW SIGNS | | |



NOTE: THE EXISTING CONDITIONS SHOWN ON THIS PLAN REPRESENT CONDITIONS EXPECTED AT THE END OF PHASE 1 CONSTRUCTION. THIS INFORMATION SHALL BE SUPERSEDED BY AN AS-BUILT SURVEY NOT AVAILABLE AT THE TIME OF BIDDING BUT TO BE PROVIDED BY THE OWNER PRIOR TO BEGINNING OF PHASE 2 CONSTRUCTION.



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| No. | Date | Issue |
| 2 | 06/05/2024 | ISSUE FOR BID - PHASE 2 |
| 1 | 01/16/2024 | ISSUE FOR PERMIT |

EXISTING CONDITIONS & REMOVALS PLAN

| | |
|-----------|-----------------|
| Job No. | Date |
| 2020-1005 | 01/24/2024 |
| Scale | Drawn / Checked |
| AS NOTED | TG/gb |

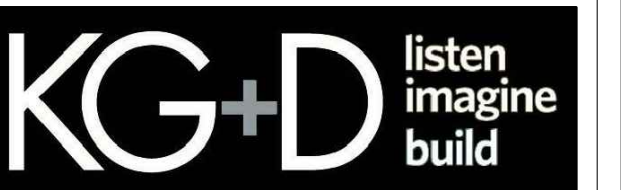
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C100

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

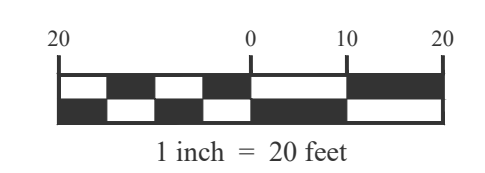
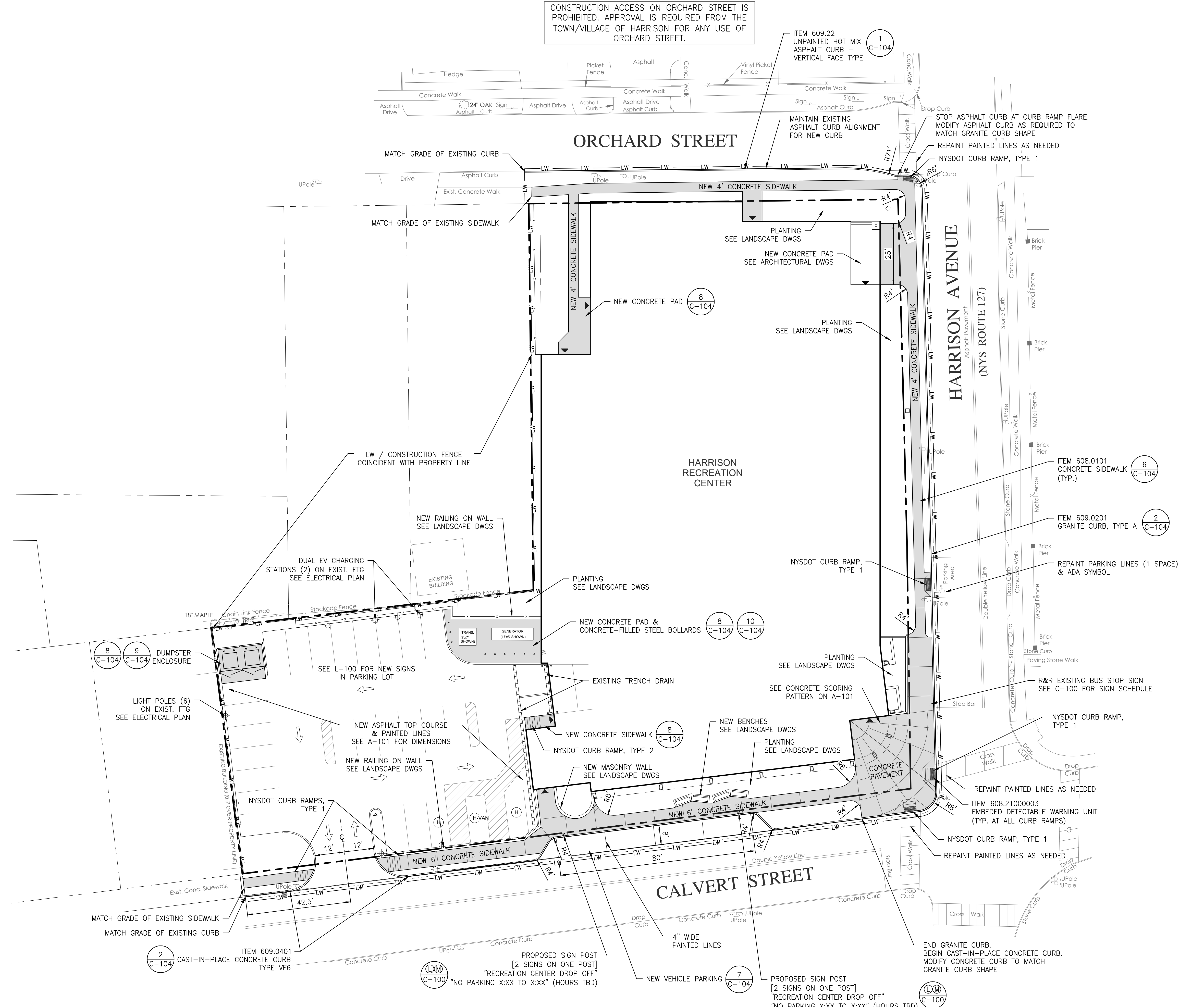
270 Harrison Avenue
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CONSTRUCTION DOCUMENTS



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Professional Seal

| | | |
|-----|------------|---------------------------|
| 3 | 06/05/2024 | ISSUE FOR BID - PHASE 2 |
| 2 | 02/16/2024 | PHASE 2 PERMIT ADDENDUM 1 |
| 1 | 01/16/2024 | ISSUE FOR PERMIT |
| No. | Date | Issue |

**SITE LAYOUT
PLAN**

| | | | |
|---------|-----------|-----------------|------------|
| Job No. | 2020-1005 | Date | 01/24/2024 |
| Scale | AS NOTED | Drawn / Checked | TG/GB |

Sheet Number
C101

HARRISON RECREATION & COMMUNITY CENTER

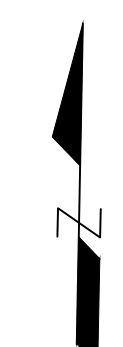
New Construction - Phase 2

Town / Village of Harrison

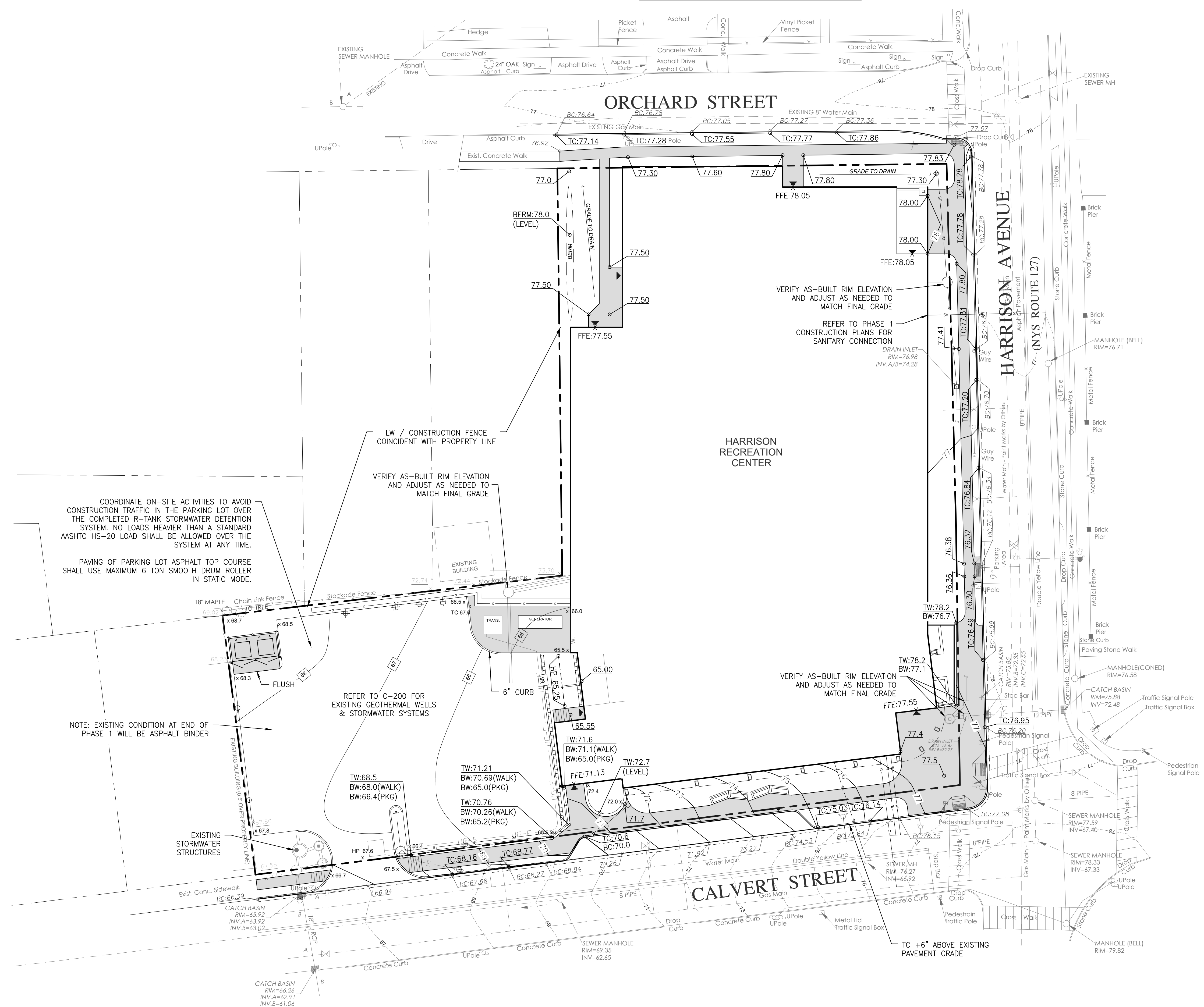
270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS



CONSTRUCTION ACCESS ON ORCHARD STREET IS PROHIBITED. APPROVAL IS REQUIRED FROM THE TOWN/VILLAGE OF HARRISON FOR ANY USE OF ORCHARD STREET.



COORDINATE ON-SITE ACTIVITIES TO AVOID CONSTRUCTION TRAFFIC IN THE PARKING LOT OVER THE COMPLETED R-TANK STORMWATER DETENTION SYSTEM. NO LOADS HEAVIER THAN A STANDARD ASHTO HS-20 LOAD SHALL BE ALLOWED OVER THE SYSTEM AT ANY TIME.
 PAVING OF PARKING LOT ASPHALT TOP COURSE SHALL USE MAXIMUM 6 TON SMOOTH DRUM ROLLER IN STATIC MODE.

VERIFY AS-BUILT RIM ELEVATION AND ADJUST AS NEEDED TO MATCH FINAL GRADE

VERIFY AS-BUILT RIM ELEVATION AND ADJUST AS NEEDED TO MATCH FINAL GRADE
 REFER TO PHASE 1 CONSTRUCTION PLANS FOR SANITARY CONNECTION

VERIFY AS-BUILT RIM ELEVATION AND ADJUST AS NEEDED TO MATCH FINAL GRADE

NOTE: EXISTING CONDITION AT END OF PHASE 1 WILL BE ASPHALT BINDER

REFER TO C-200 FOR EXISTING GEOTHERMAL WELLS & STORMWATER SYSTEMS

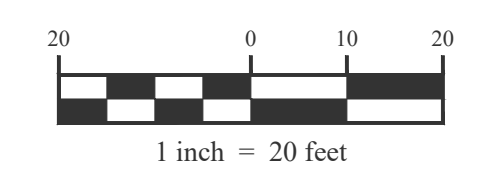
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|-----|------------|-------------------------|
| 2 | 06/05/2024 | ISSUE FOR BID - PHASE 2 |
| 1 | 01/16/2024 | ISSUE FOR PERMIT |

SITE GRADING PLAN

Job No. 2020-1005 Date 01/24/2024
 Scale AS NOTED Drawn / Checked TG/GB

Sheet Number **C102**



HARRISON RECREATION & COMMUNITY CENTER

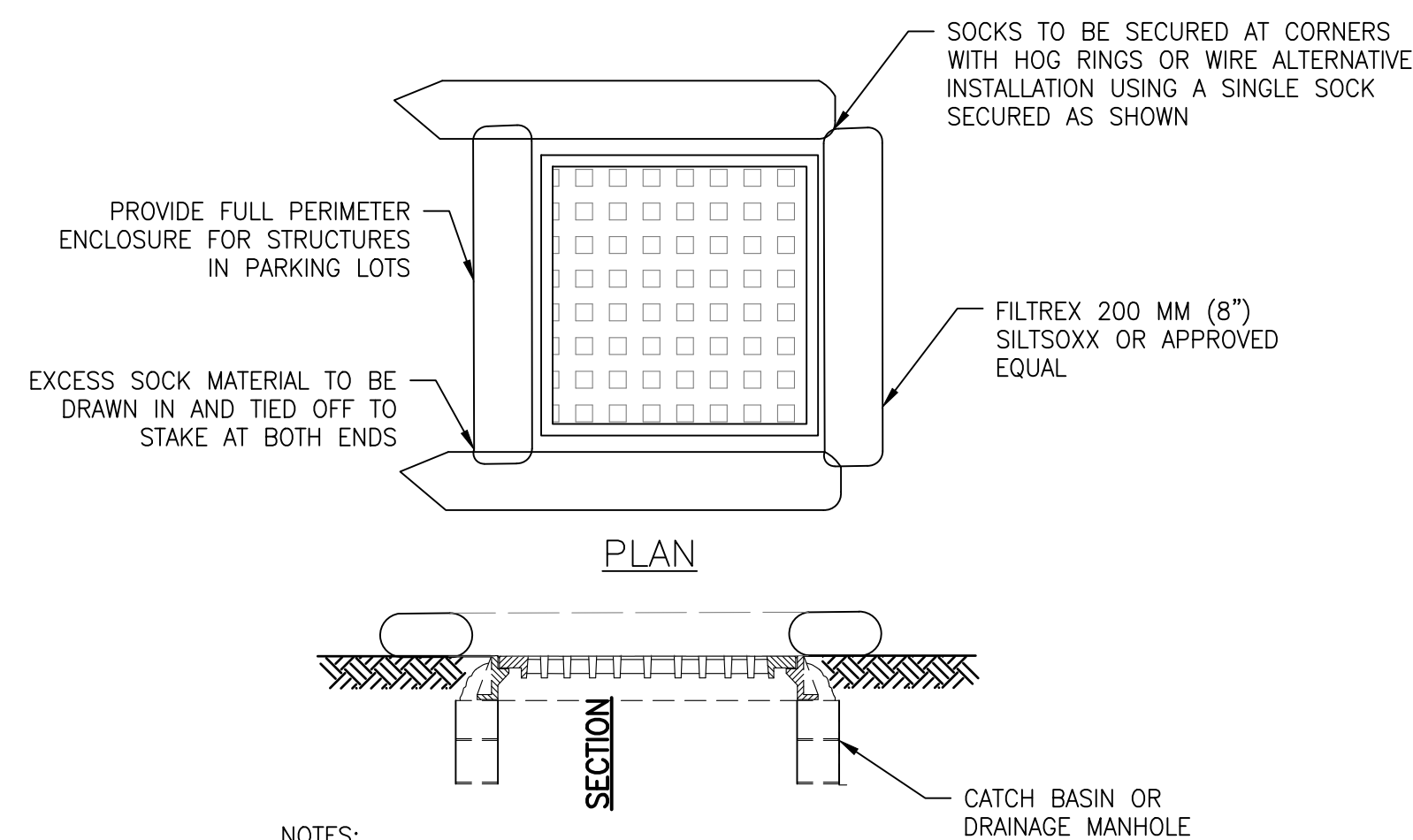
New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



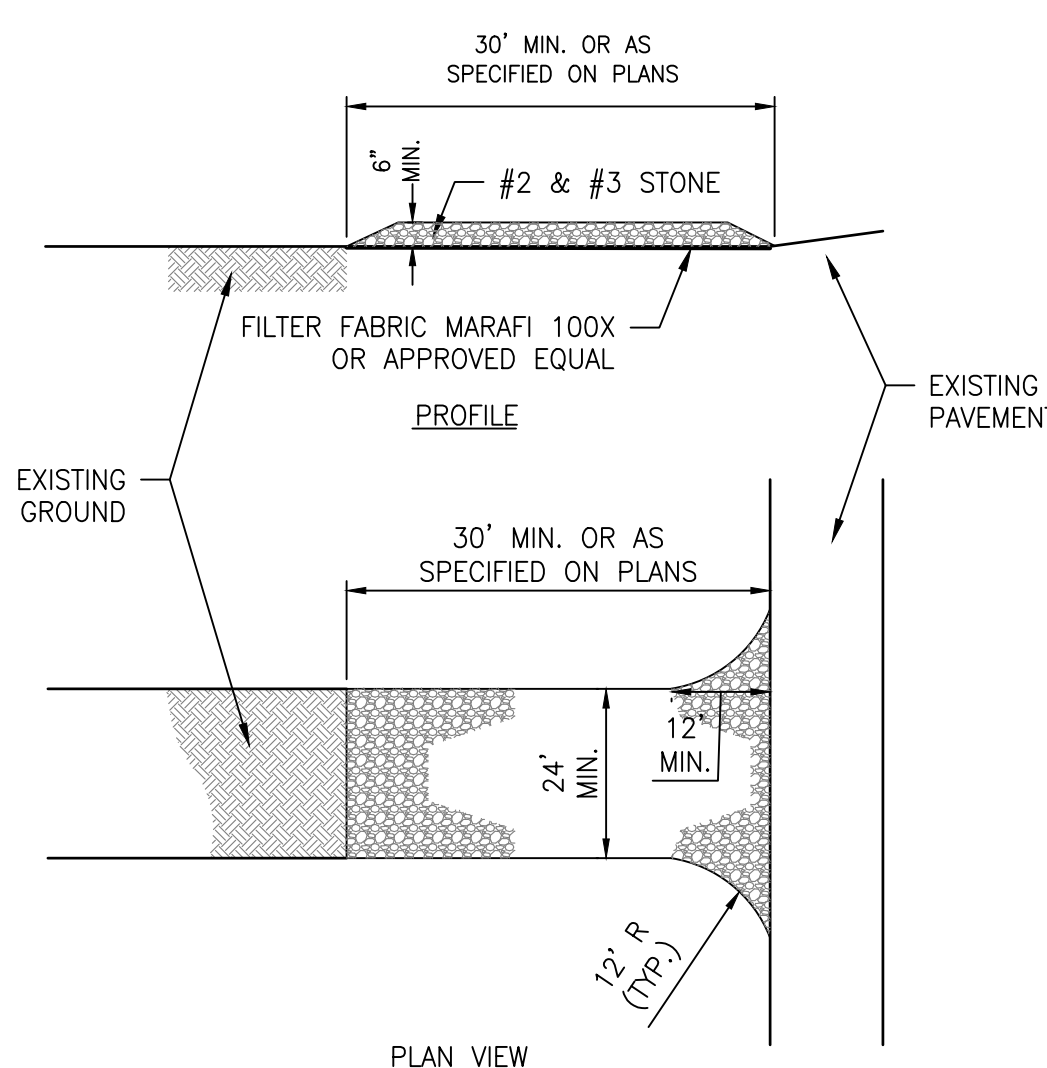
CONSTRUCTION DOCUMENTS



- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.
 2. SECURE FILTERSOCK TO GROUND AT BOTH ENDS.
 3. INLET PROTECTION SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN STABILIZED.

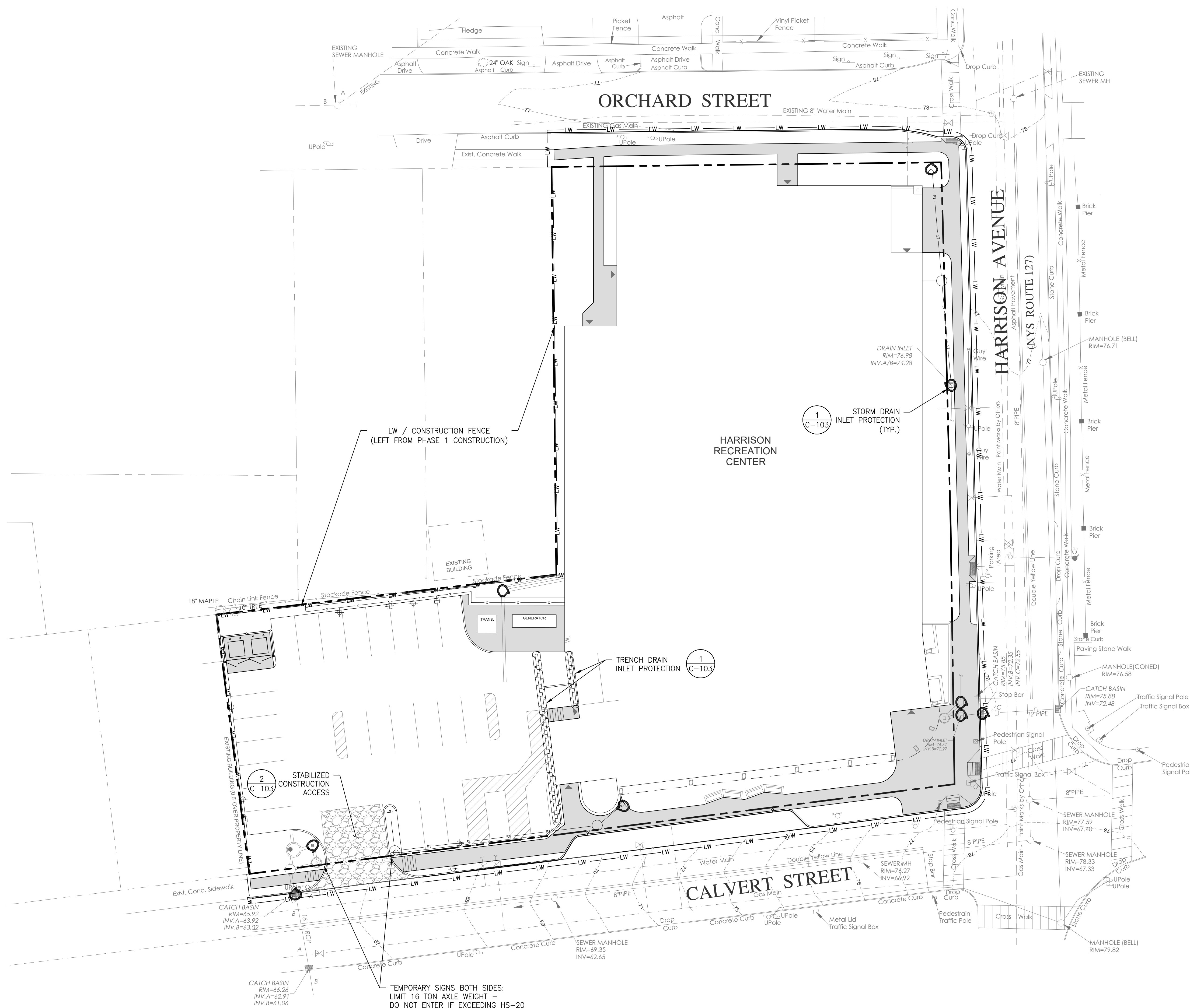
CONSTRUCTION ACCESS ON ORCHARD STREET IS PROHIBITED. APPROVAL IS REQUIRED FROM THE TOWN/VILLAGE OF HARRISON FOR ANY USE OF ORCHARD STREET.

1 TEMPORARY INLET FILTER SCALE: NTS



- NOTES:
1. STONE SIZE - USE MIXTURE OF #2 & #3 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. LENGTH - NOT LESS THAN FIFTY (50) FEET.
 3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 4. WIDTH - TWENTY-FOUR (24) FEET.
 5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED ACROSS THE ACCESS IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 7. MAINTENANCE - THE ACCESS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
 10. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL REMOVE MATERIALS AND RESTORE ENTRANCE AREA, ESTABLISHING VEGETATIVE COVER AS PER PLANS.

2 STABILIZED CONSTRUCTION ACCESS SCALE: NTS



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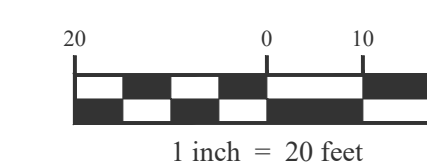
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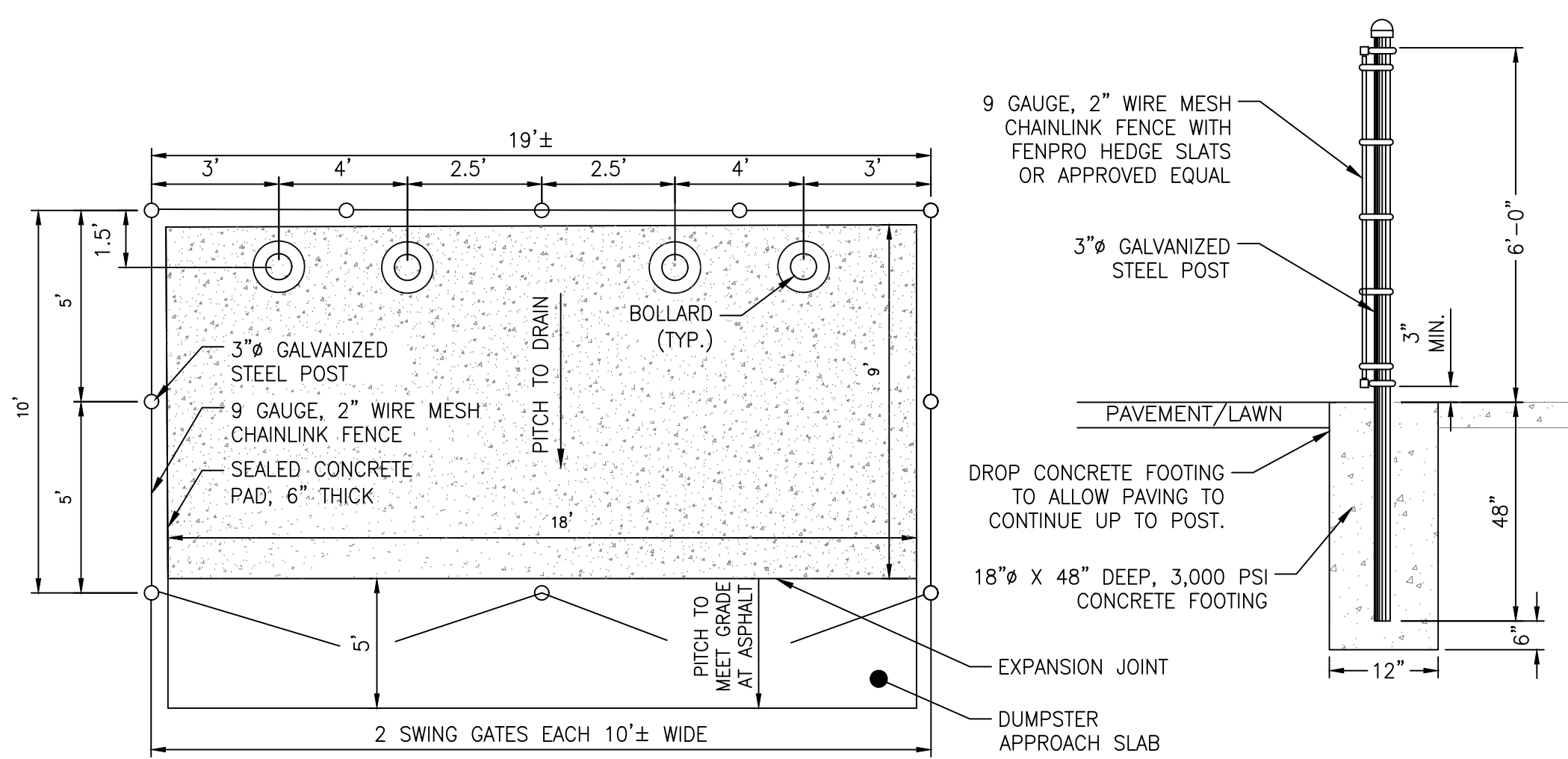
| No. | Date | Issue |
|-----|------------|-------------------------|
| 2 | 06/05/2024 | ISSUE FOR BID - PHASE 2 |
| 1 | 01/16/2024 | ISSUE FOR PERMIT |

EROSION & SEDIMENT CONTROL PLAN

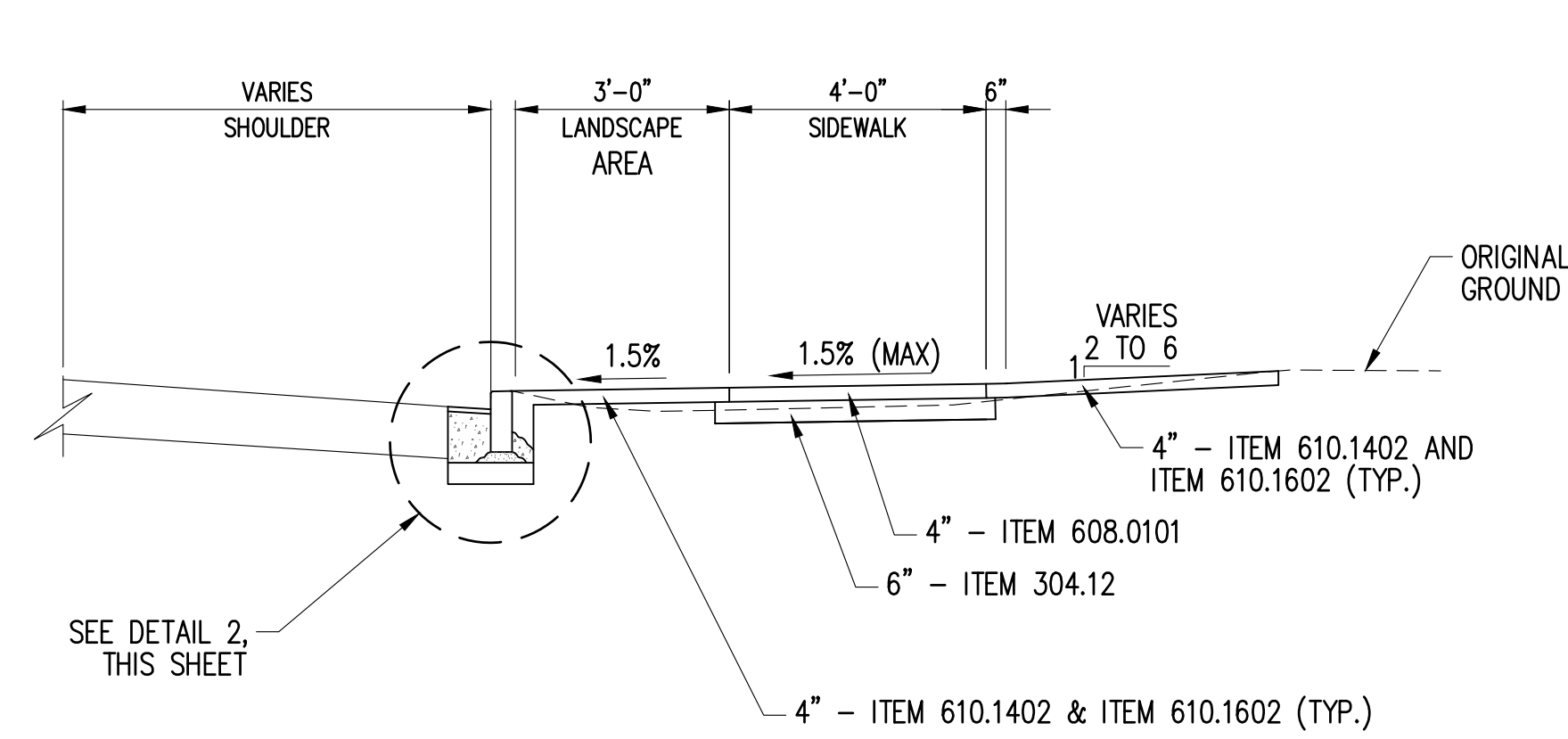
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|--------------|-----------|-----------------|------------|
| Job No. | 2020-1005 | Date | 01/24/2024 |
| Scale | AS NOTED | Drawn / Checked | TG/GB |
| Sheet Number | C103 | | |

THIS PLAN IS FOR SEDIMENT AND EROSION CONTROL PLAN PURPOSES ONLY.

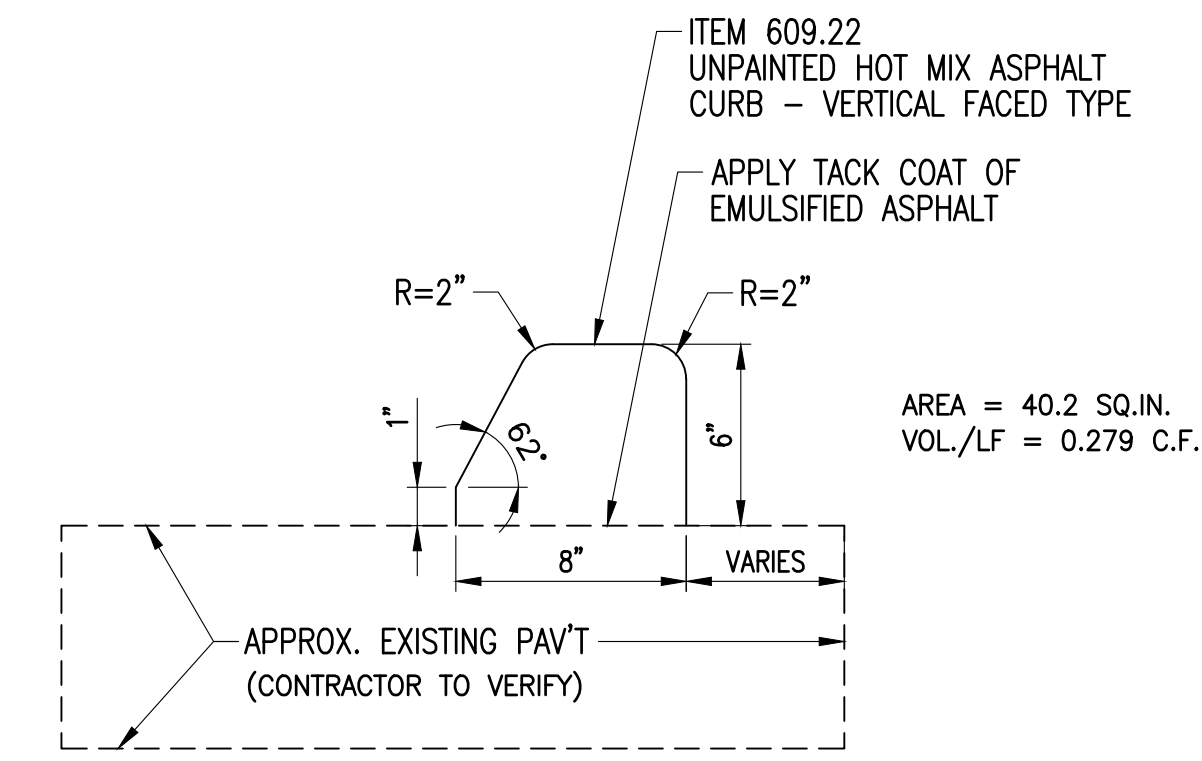




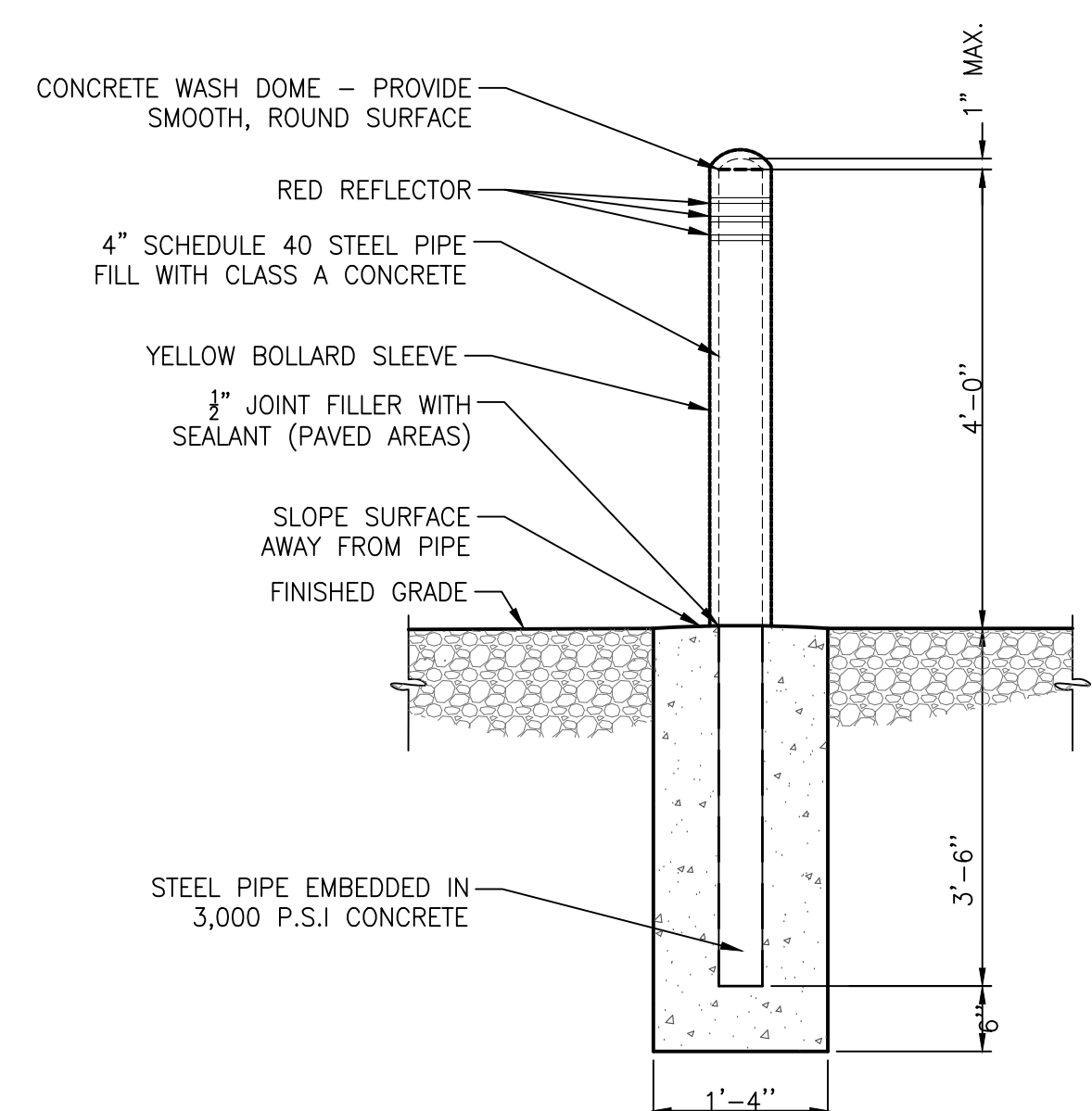
9 DUMPSTER ENCLOSURE AND GATE DETAIL SCALE: NTS



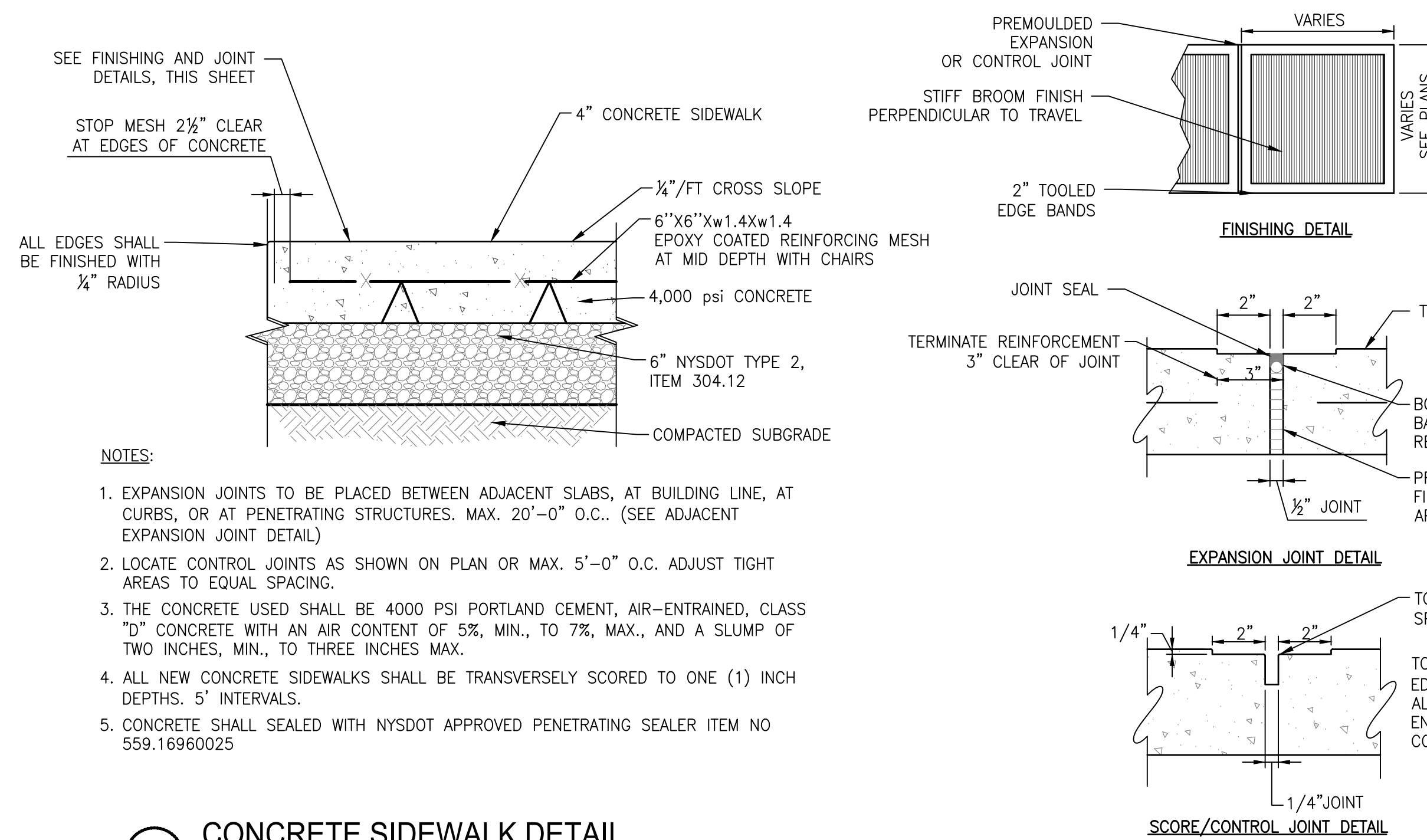
5 TYPICAL SECTION - HARRISON AVENUE SCALE: NTS



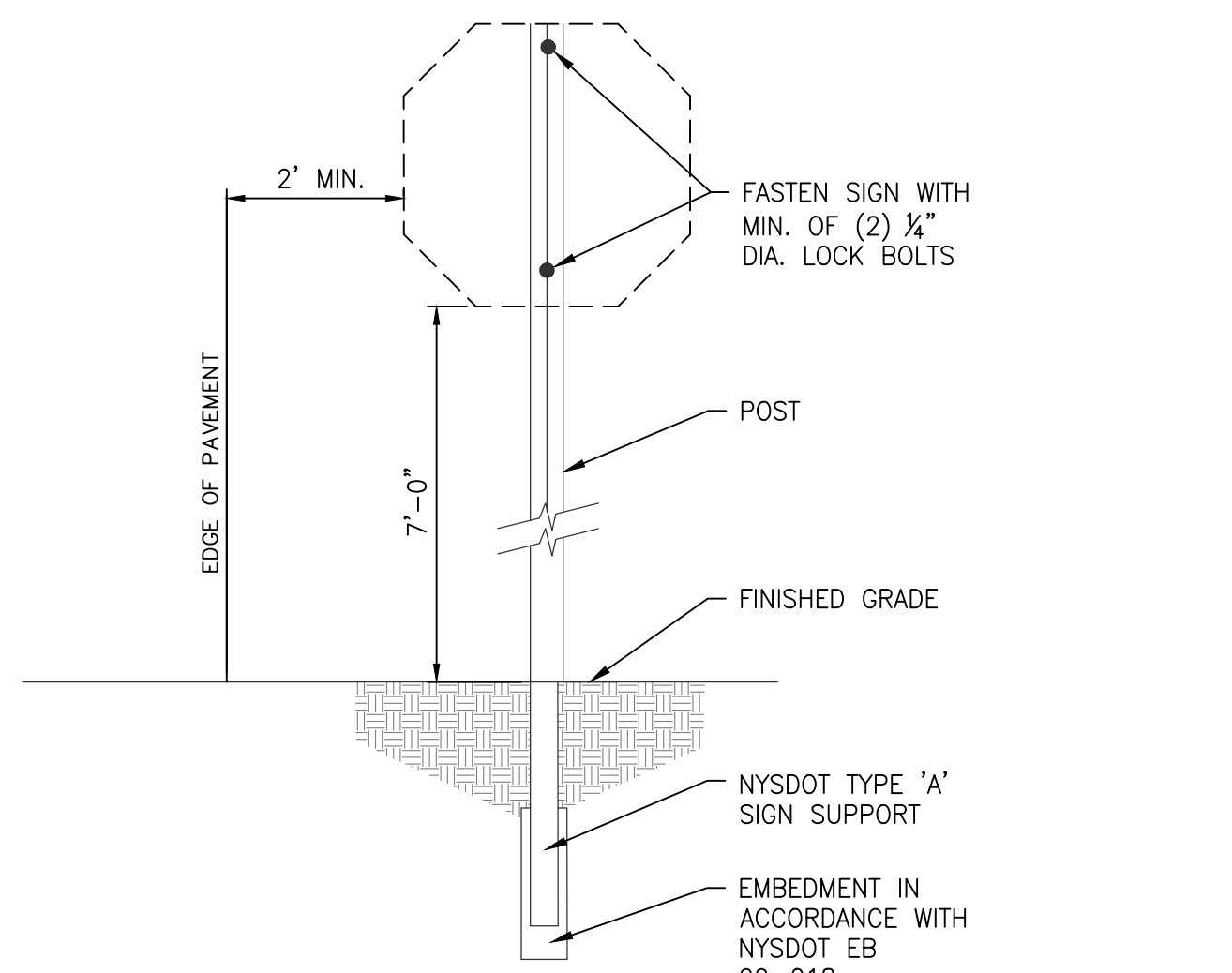
1 HMA CURB DETAIL ORCHARD STREET SCALE: NTS



10 BOLLARD DETAIL SCALE: NTS



6 CONCRETE SIDEWALK DETAIL SCALE: NTS

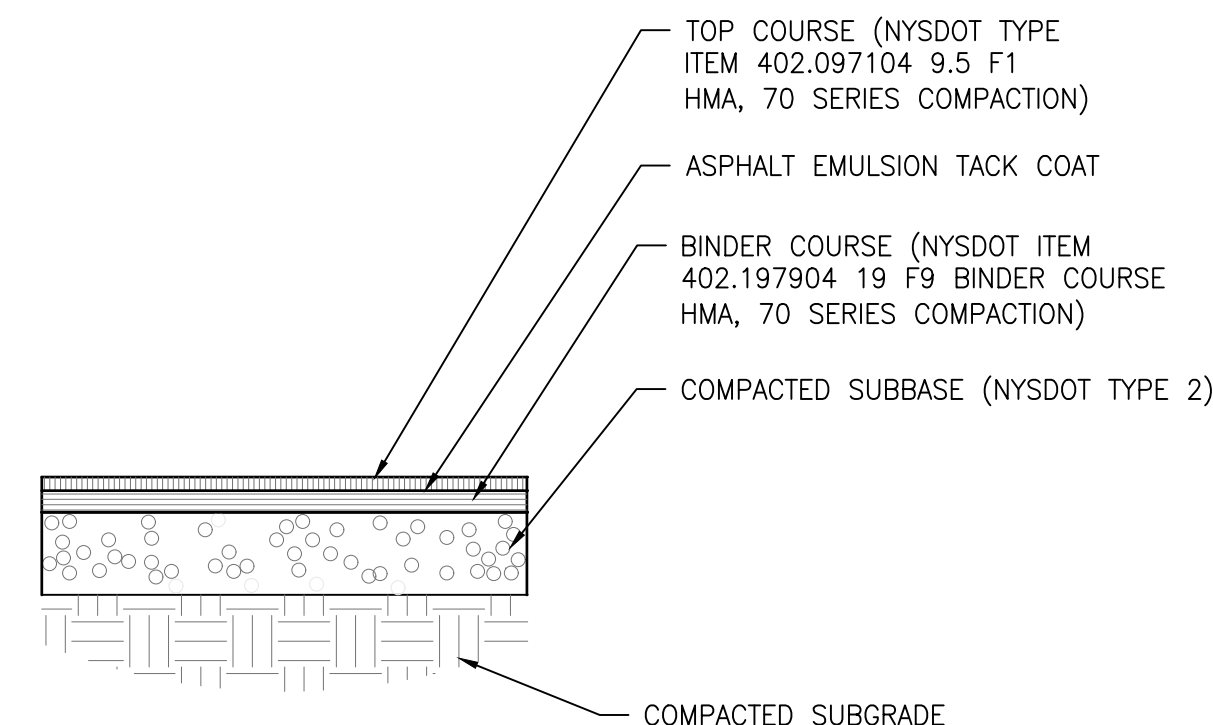


11 SIGN MOUNTING DETAIL SCALE: NTS

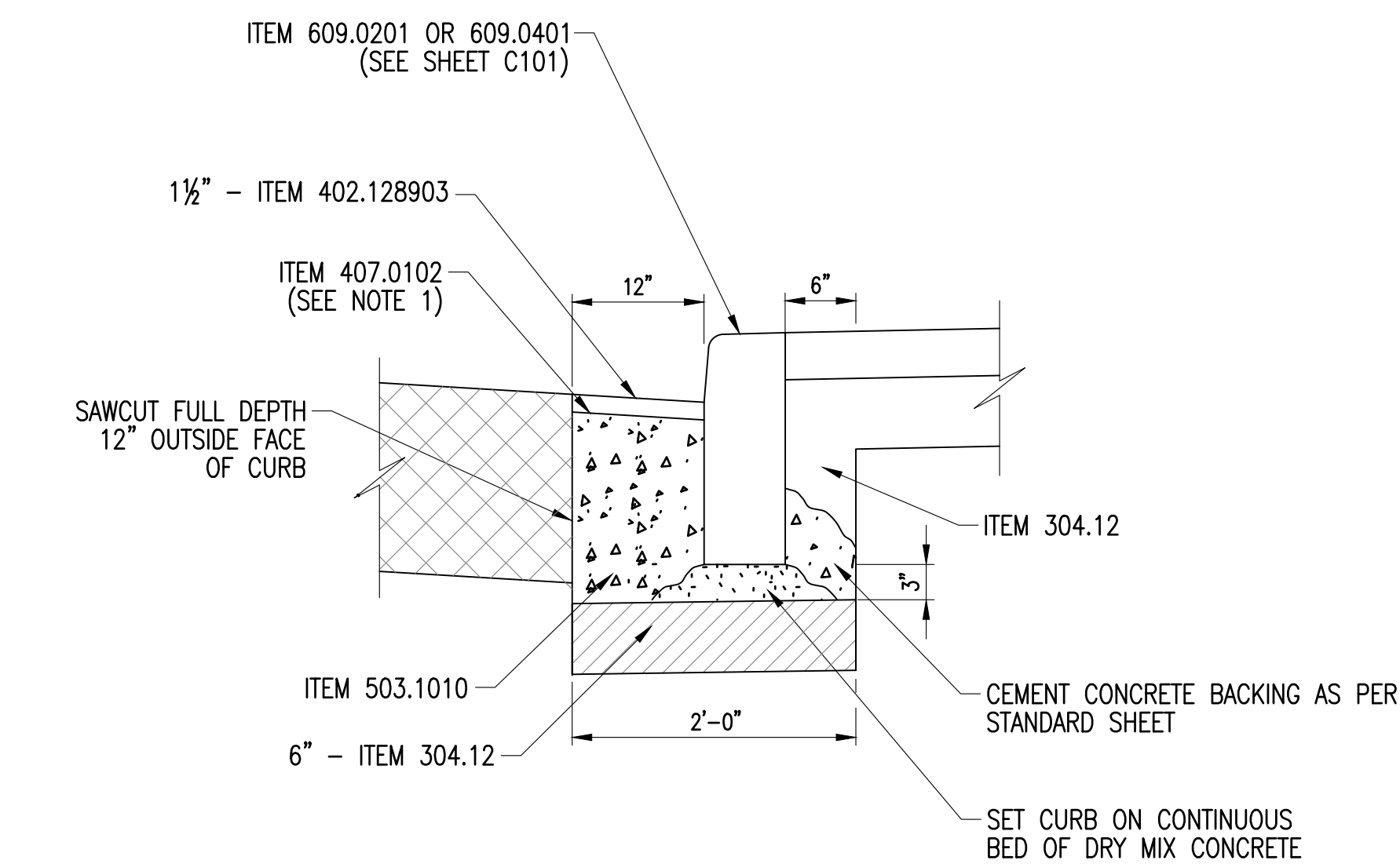
PAVEMENT TABLE

| LOCATION | TOP | BINDER | SUBBASE |
|----------|--------|--------|---------|
| PARKING | 1 1/2" | 2 1/2" | 8" |

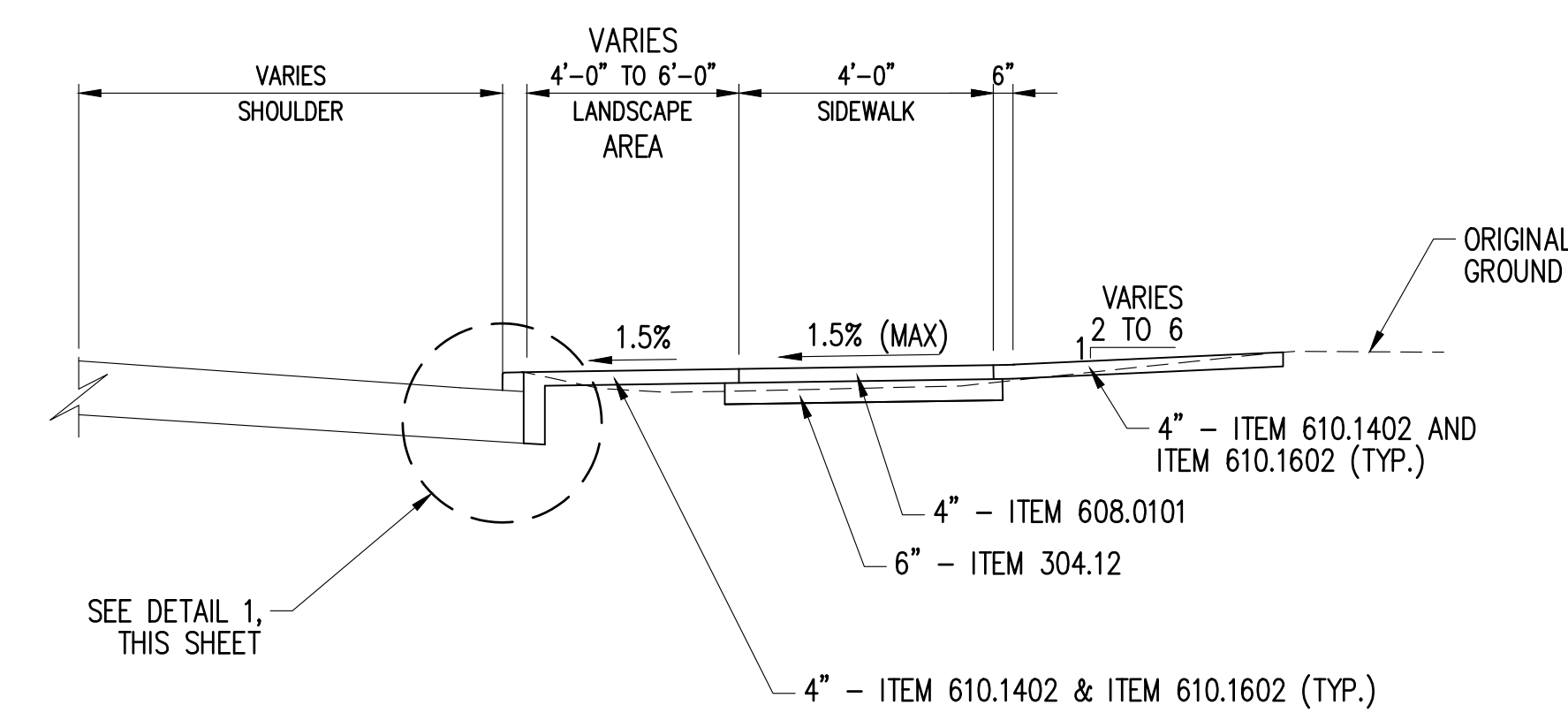
NOTES:
1. THE SUBBASE SHALL BE INSTALLED IN LIFTS NOT TO EXCEED 6-INCHES.



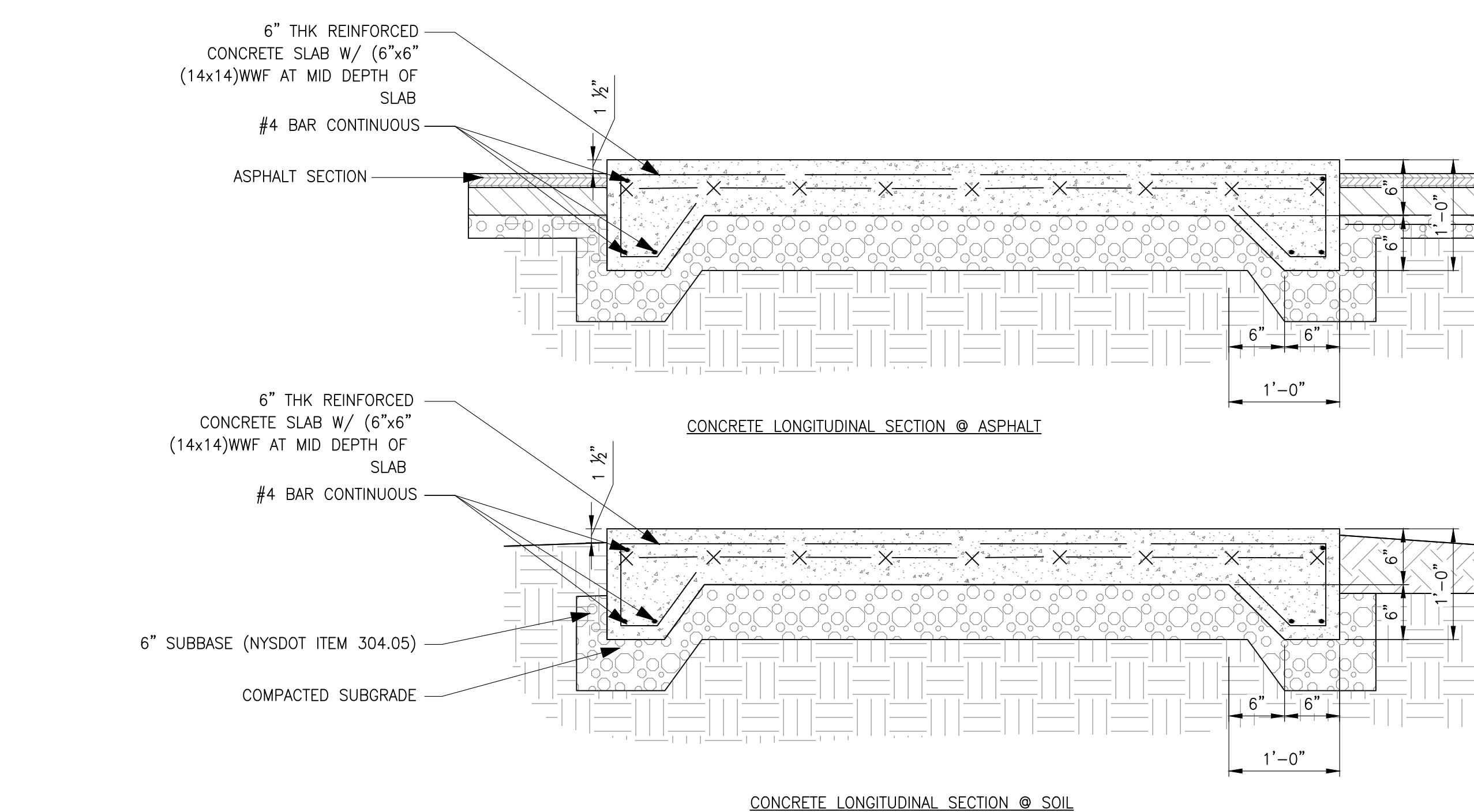
7 ASPHALT PAVEMENT SECTION - NEW VEHICLE PARKING SCALE: NTS



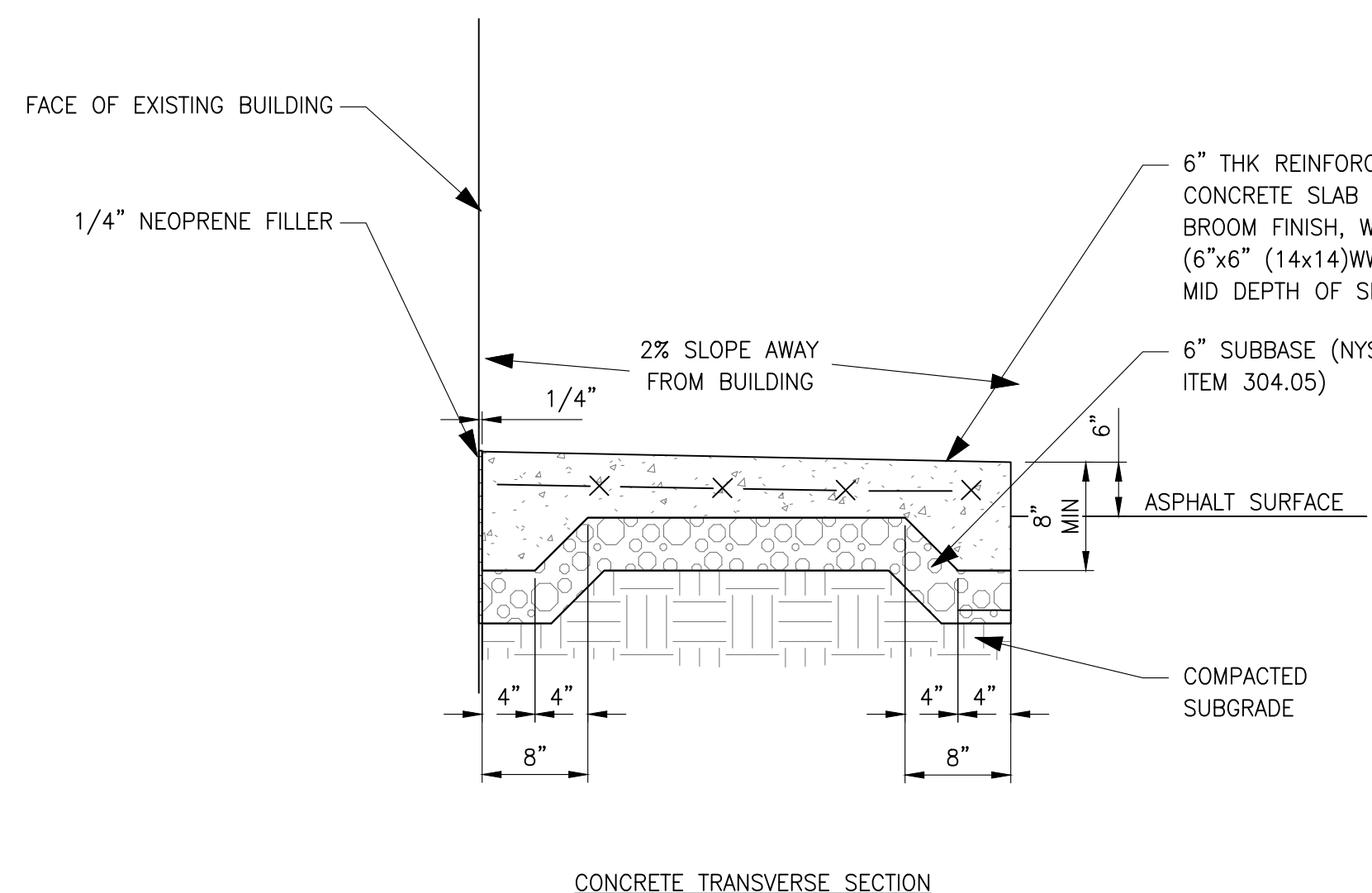
2 CURB DETAIL HARRISON AVENUE & CALVERT STREET SCALE: NTS



3 TYPICAL SECTION - ORCHARD STREET SCALE: NTS



8 CONCRETE PAD DETAIL SCALE: NTS



4 TYPICAL SECTION - CALVERT STREET SCALE: NTS

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528



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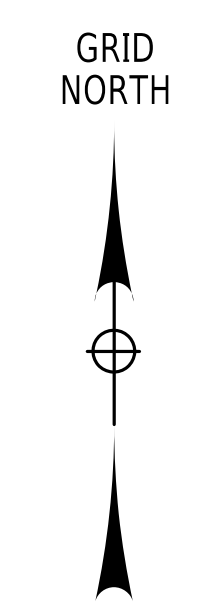
| No. | Date | Issue |
|-----|------------|-------------------------|
| 2 | 06/05/2024 | ISSUE FOR BID - PHASE 2 |
| 1 | 01/16/2024 | ISSUE FOR PERMIT |

SITE DETAILS

| Job No. | Date |
|-----------|------------|
| 2020-1005 | 01/24/2024 |

| Scale | Drawn / Checked |
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| AS NOTED | TG/GB |

Sheet Number

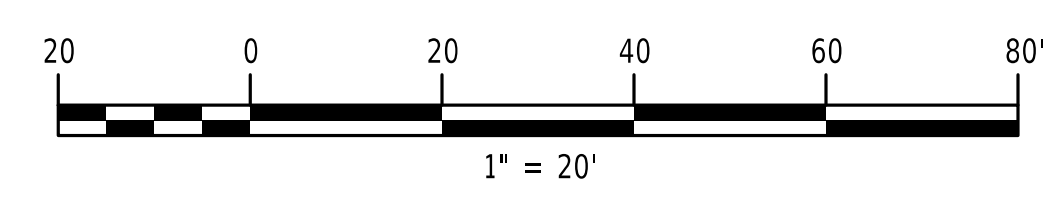
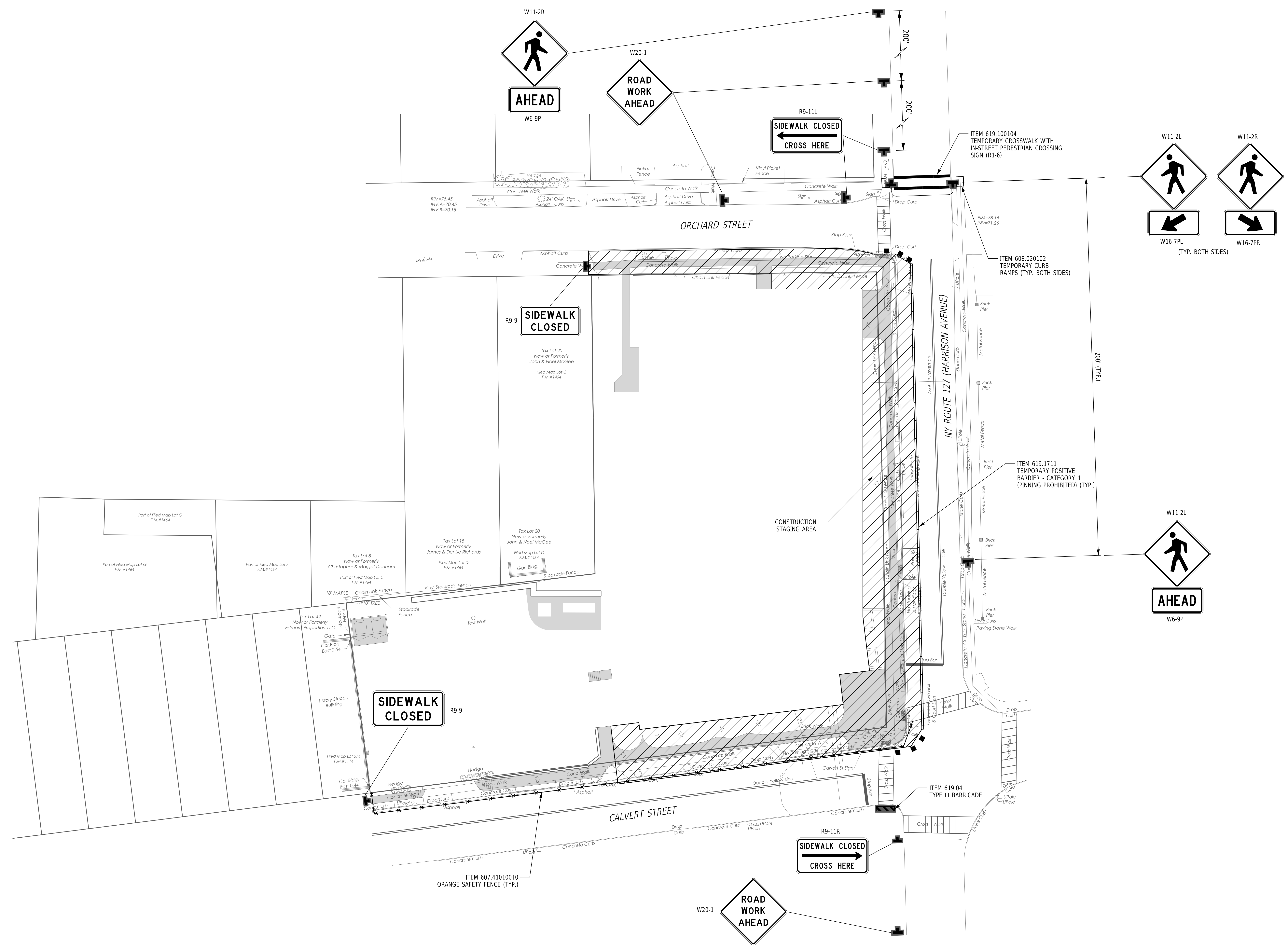


HARRISON RECREATION & COMMUNITY CENTER
 New Construction - Phase 2
 Town / Village of Harrison
 270 Harrison Avenue
 Harrison, NY 10528

KG+D listen imagine build
 KG+D ARCHITECTS, PC
 285 MAIN STREET-MOUNT KISCO, NEW YORK 10549
 P: (914) 666-5900 KGDARCHITECTS.COM

Creighton Manning
 CREIGHTON ENGINEERING, LLP
 2 WINNERS CIRCLE - ALBANY - NEW YORK - 12205
 P: (518) 445-0391 F: (518) 445-0397 WWW.CMELLP.COM

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| No. | Date | Issue |
| 2 | 06/05/2024 | ISSUE FOR BID - PHASE 2 |
| 1 | 01/16/2024 | ISSUE FOR PERMIT |

WORK ZONE TRAFFIC CONTROL PLAN

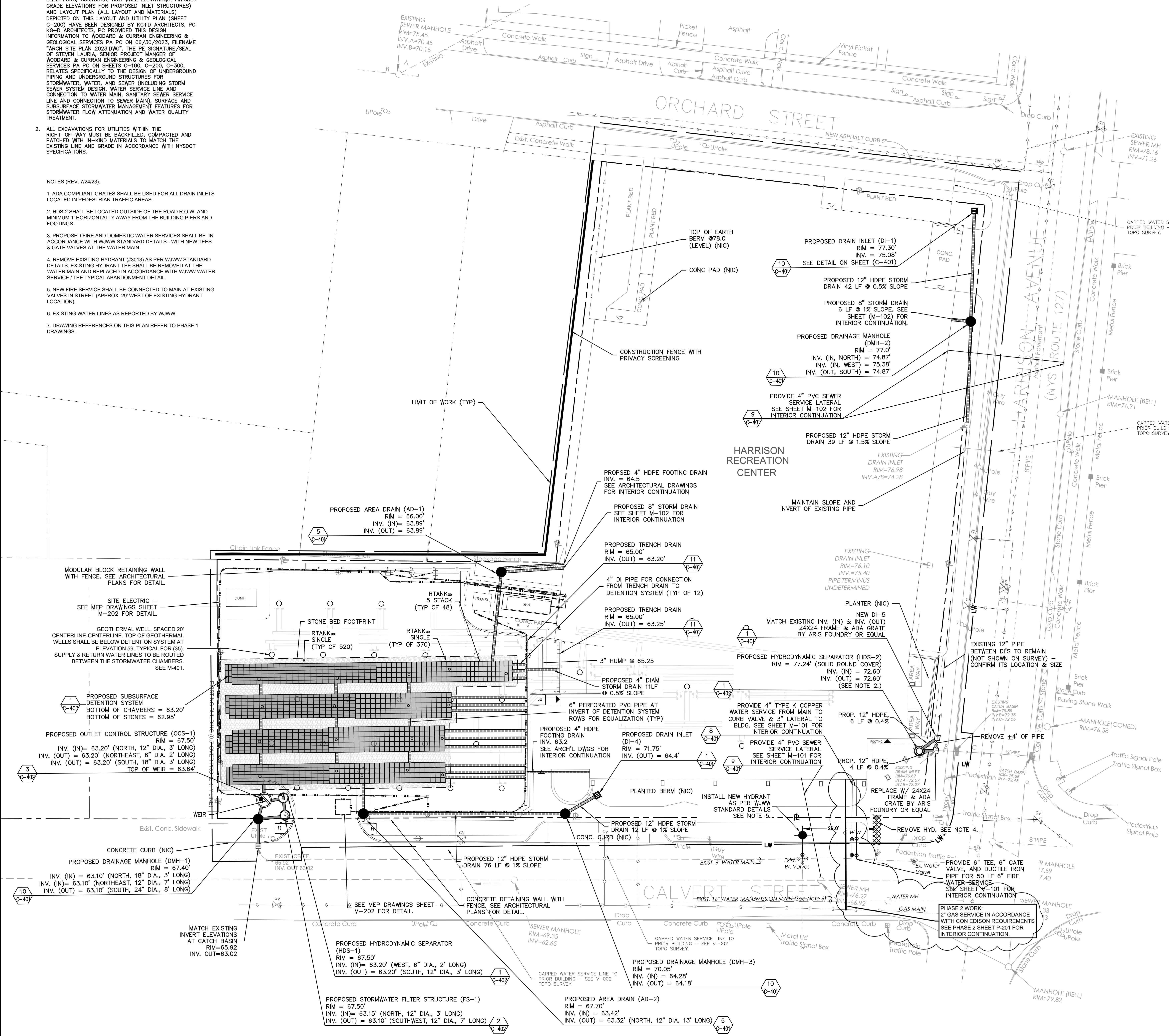
Job No. 2020-1005 Date 01/24/2024
 Scale AS NOTED Drawn / Checked TG/GB
 Sheet Number **C105**

GENERAL NOTES:

1. THE PROPOSED SITE GRADING (INCLUDING PROPOSED SPOT ELEVATIONS, CONTOURS, AND WALL ELEVATIONS, FINISHED GRADE ELEVATIONS FOR PROPOSED INLET STRUCTURES) AND LAYOUT PLAN (ALL LAYOUT AND MATERIALS) DEPICTED ON THIS LAYOUT AND UTILITY PLAN (SHEET C-200) HAVE BEEN DESIGNED BY KG+D ARCHITECTS, PC. KG+D ARCHITECTS, PC PROVIDED THIS DESIGN INFORMATION TO WOODARD & CURRAN ENGINEERING & GEOLOGICAL SERVICES PA PC ON 06/30/2023, FILENAME "ARCH SITE PLAN 2023.DWG". THE PE SIGNATURE/SEAL OF STEVEN LAURIA, SENIOR PROJECT MANAGER OF WOODARD & CURRAN ENGINEERING & GEOLOGICAL SERVICES PA PC ON SHEETS C-100, C-200, C-300, RELATES SPECIFICALLY TO THE DESIGN OF UNDERGROUND PIPING AND UNDERGROUND STRUCTURES FOR STORMWATER, WATER, AND SEWER (INCLUDING STORM SEWER SYSTEM DESIGN, WATER SERVICE LINE AND CONNECTION TO WATER MAIN, SANITARY SEWER SERVICE LINE AND CONNECTION TO SEWER MAIN), SURFACE AND SUBSURFACE STORMWATER MANAGEMENT FEATURES FOR STORMWATER FLOW ATTENUATION AND WATER QUALITY TREATMENT.
2. ALL EXCAVATIONS FOR UTILITIES WITHIN THE RIGHT-OF-WAY MUST BE BACKFILLED, COMPACTED AND PATCHED WITH IN-KIND MATERIALS TO MATCH THE EXISTING LINE AND GRADE IN ACCORDANCE WITH NYS DOT SPECIFICATIONS.

NOTES (REV. 7/24/23):

1. ADA COMPLIANT GRATES SHALL BE USED FOR ALL DRAIN INLETS LOCATED IN PEDESTRIAN TRAFFIC AREAS.
2. HDS-2 SHALL BE LOCATED OUTSIDE OF THE ROAD R.O.W. AND MINIMUM 1' HORIZONTALLY AWAY FROM THE BUILDING PIERS AND FOOTINGS.
3. PROPOSED FIRE AND DOMESTIC WATER SERVICES SHALL BE IN ACCORDANCE WITH WJWW STANDARD DETAILS - WITH NEW TEES & GATE VALVES AT THE WATER MAIN.
4. REMOVE EXISTING HYDRANT (#3013) AS PER WJWW STANDARD DETAILS. EXISTING HYDRANT TEE SHALL BE REMOVED AT THE WATER MAIN AND REPLACED IN ACCORDANCE WITH WJWW WATER SERVICE / TEE TYPICAL ABANDONMENT DETAIL.
5. NEW FIRE SERVICE SHALL BE CONNECTED TO MAIN AT EXISTING VALVES IN STREET (APPROX. 25' WEST OF EXISTING HYDRANT LOCATION).
6. EXISTING WATER LINES AS REPORTED BY WJWW.
7. DRAWING REFERENCES ON THIS PLAN REFER TO PHASE 1 DRAWINGS.



NOTE - THIS DRAWING SHOWS COMPLETED PHASE 1 WORK FOR REFERENCE EXCEPT AS FOLLOWS:

1. GAS SERVICE FROM CALVERT STREET IS PHASE 2 WORK.

PHASE 2 CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEPTHS AND LOCATIONS OF ALL UNDERGROUND UTILITIES IN THE WORK AREA AND POTENTIALLY AFFECTED BY PHASE 2 WORK.

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| No. | Date | Issue |
|-----|------------|-----------------------------|
| 7 | 06/05/2024 | ISSUE FOR BID - PHASE 2 |
| 6 | 01/08/2024 | REVISE WATER & STORM |
| 5 | 07/24/2023 | REVISE FOR PERMIT - PHASE 1 |
| 4 | 06/29/2023 | ISSUE FOR BID - PHASE 1 |
| 3 | 06/09/2023 | ISSUE FOR PERMIT - PHASE 1 |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

No. _____ Date _____ Issue _____

Sheet Title

UTILITIES PLAN

Job No. 2020-1005 Date 07/07/2023

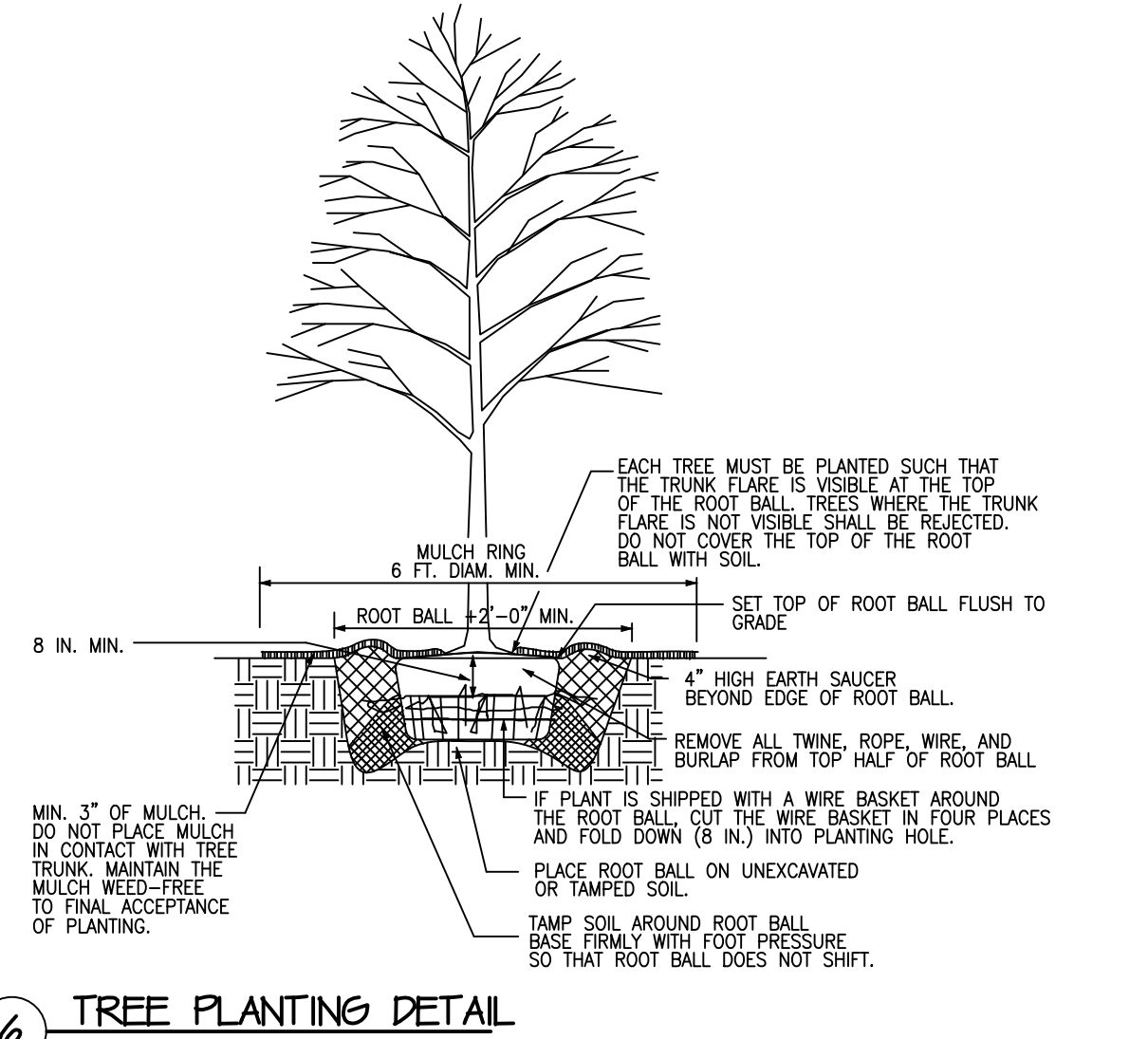
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Sheet Number

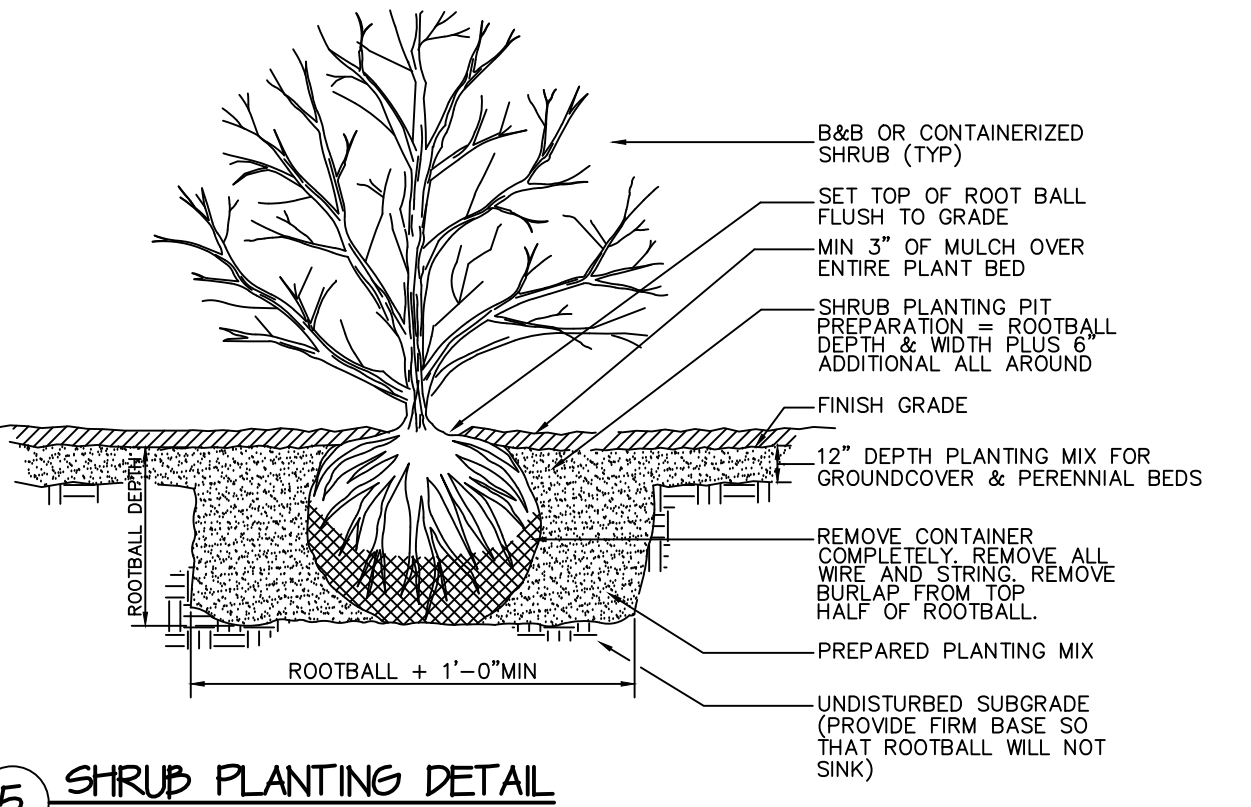
| Code | Sign Description | Notes |
|------|-----------------------------|--|
| AA | NO PARKING | MUTCD # R8-3a |
| BB | 6:00 AM TO 6:30 PM | MUTCD # R8-3bP TIMES AS SPECIFIED BY OWNER (1) ARROW LT & (1) ARROW RT |
| CC | DISABLED PARKING | MUTCD # R7-8 (WITHOUT ARROW) |
| DD | VAN | MUTCD # R7-8P |
| EE | NO PARKING ANY TIME | MUTCD # R7-1 |
| FF | MATCH STYLE OF MUTCD # R7-1 | INFORMATION SIGN: "RECREATION CENTER PARKING ONLY" |
| GG | MATCH STYLE OF MUTCD # R7-1 | *LIMIT 16 TON AXLE WEIGHT DO NOT ENTER IF EXCEEDING HD-20* |

SITE LIGHTING

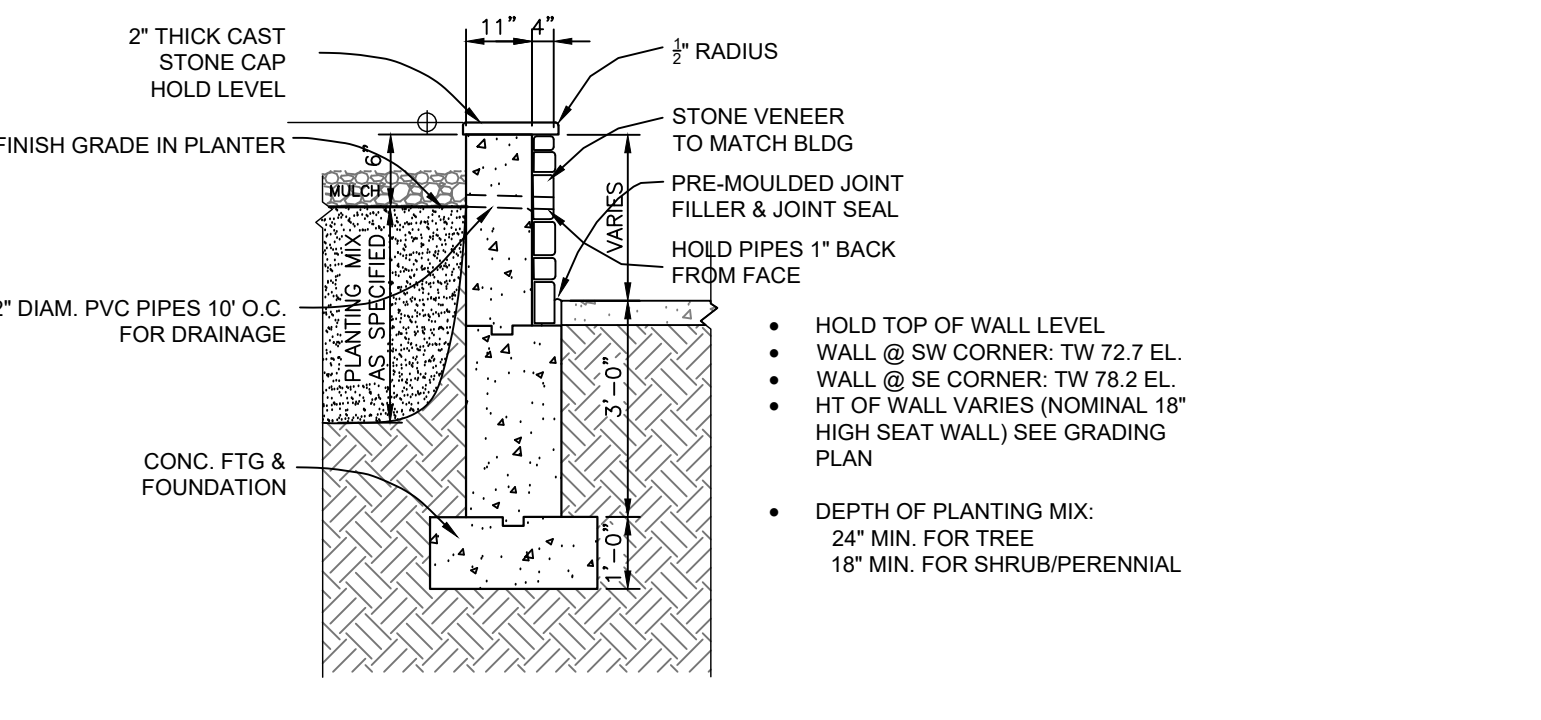
- LIGHTING SHOWN ON THIS PLAN:
 - PARKING LOT POLE LIGHTS: (6) BEGA 89522K4
 - SOUTH SIDEWALK BOLLARD LIGHTS: (6) BEGA 84430, 3500K
 - EAST GROUND MOUNTED UPLIGHTS: (6) BEGA 77125
 - REFER TO ARCHITECTURAL PLANS FOR BUILDING MOUNTED LIGHTS
 - REFER TO DWG E-010, E-011 & E-001 FOR ADD. INFORMATION
- PARKING LOT ILLUMINATION LEVELS:
 - 2.80 FC AVG, 5.6 FC MAX, 0.1 FC MIN, 28.00 AVG/MIN, 56.00 MAX/MIN BY INTERNATIONAL LIGHTS, 4.24/23



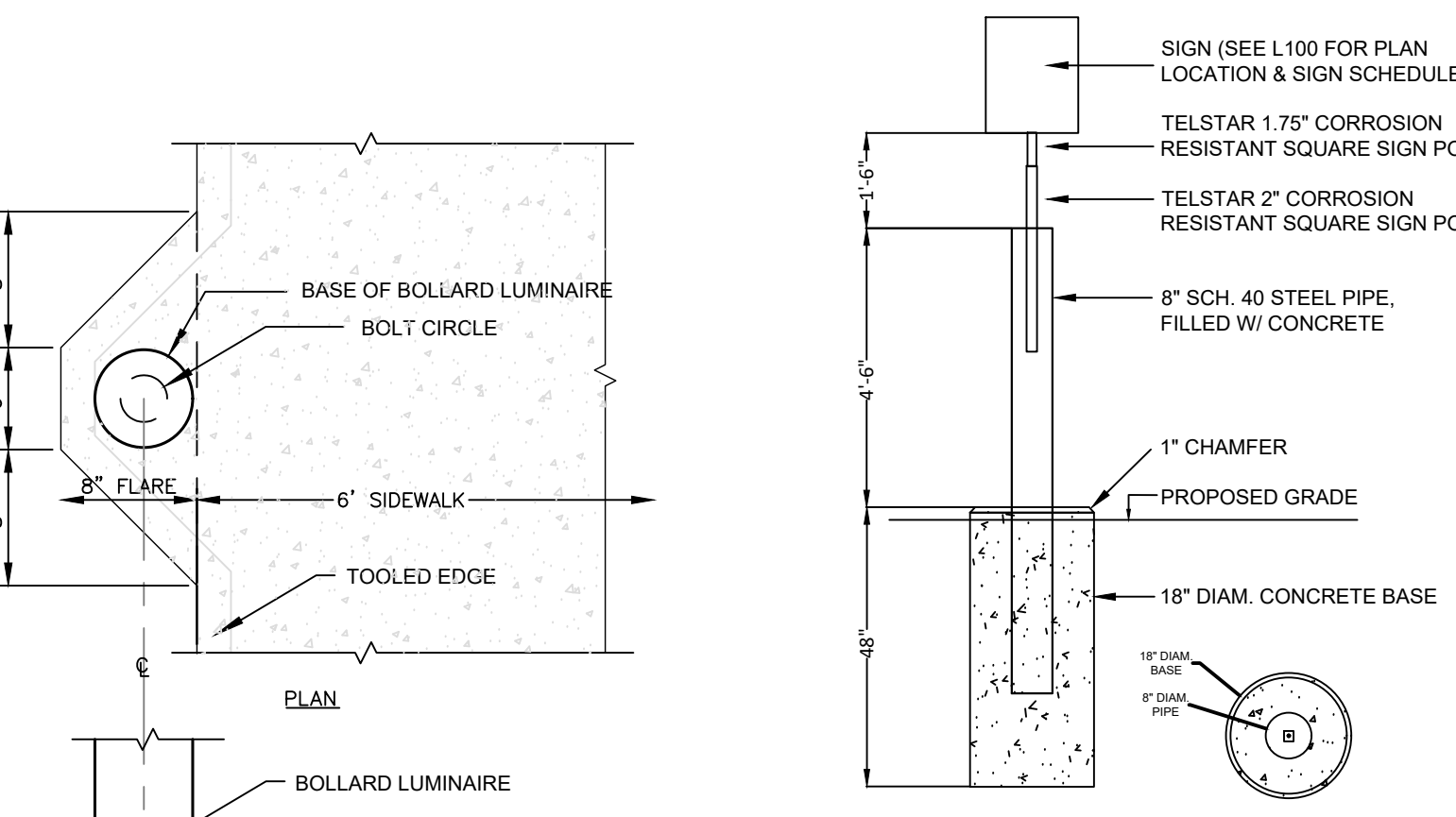
4 TREE PLANTING DETAIL SCALE: NTS



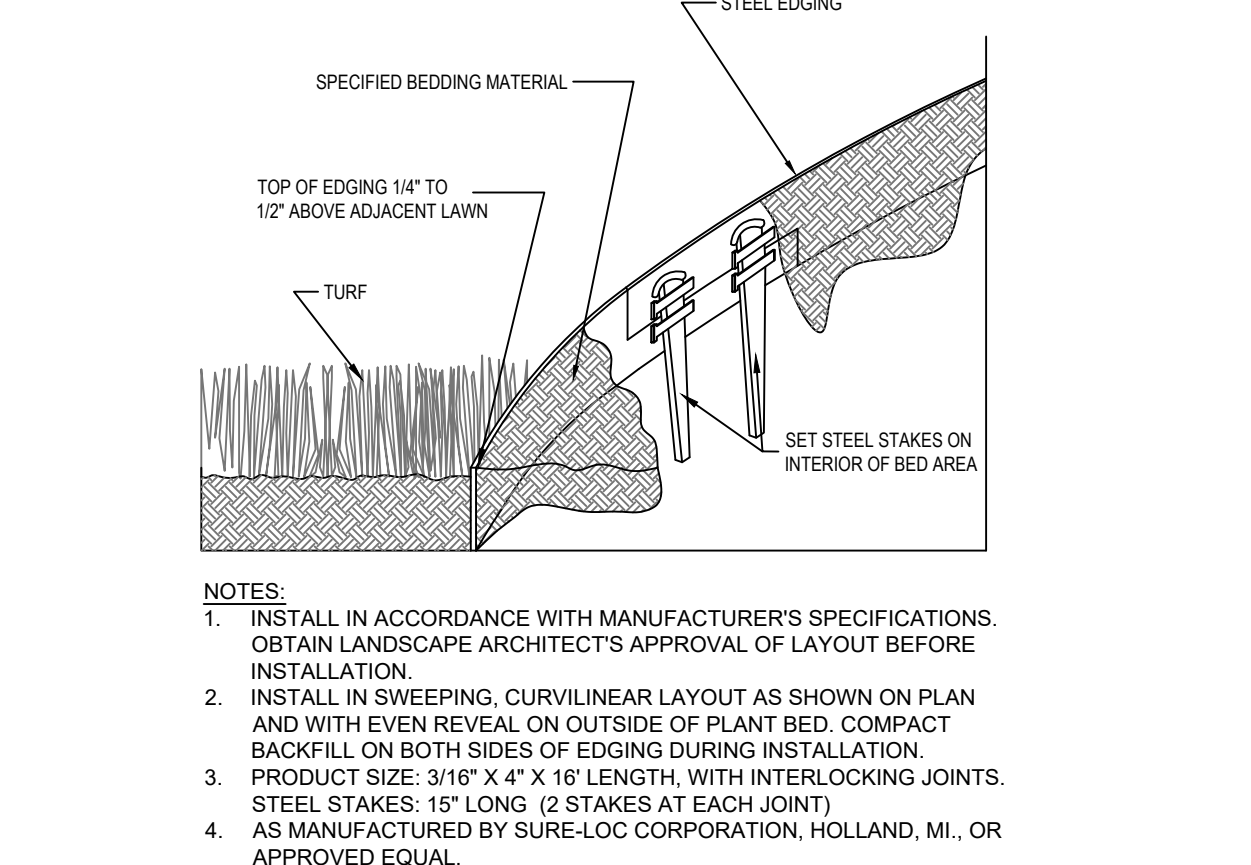
5 SHRUB PLANTING DETAIL SCALE: NTS



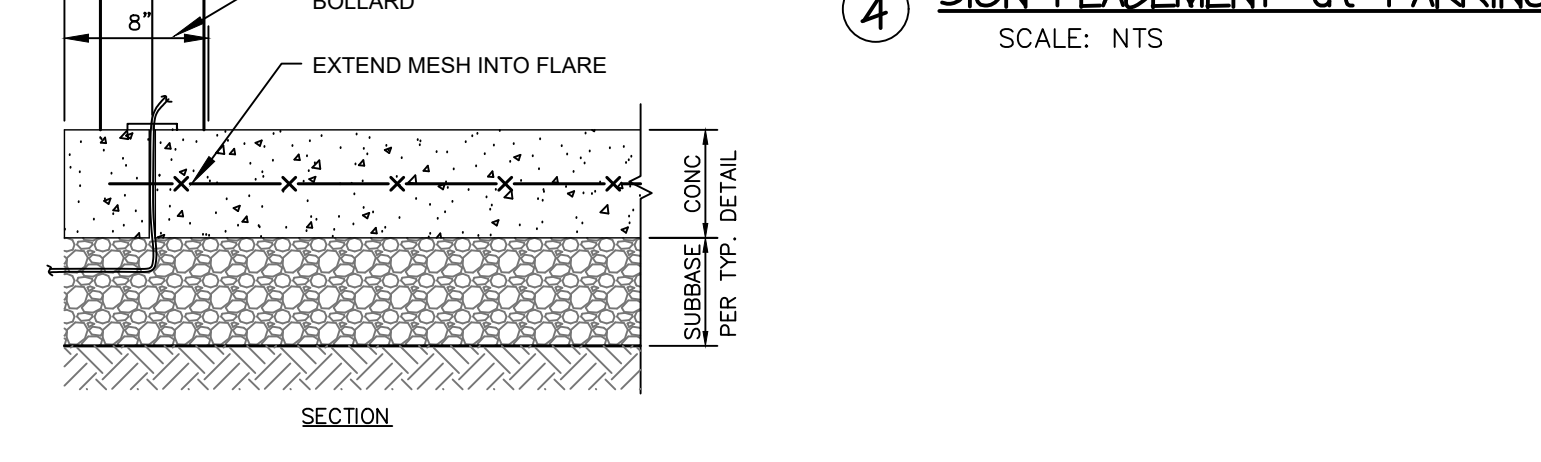
9 CONCRETE & MASONRY PLANTER WALL SCALE: NTS



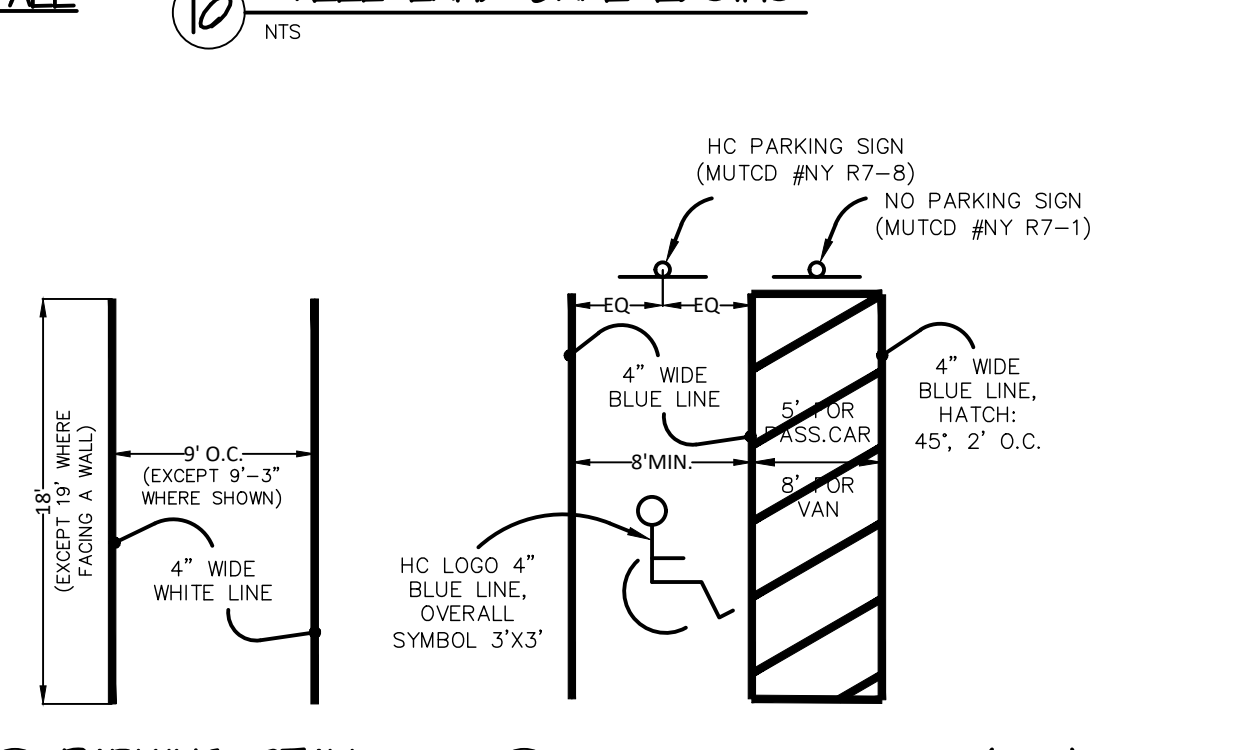
4 SIGN PLACEMENT AT PARKING STALL SCALE: NTS



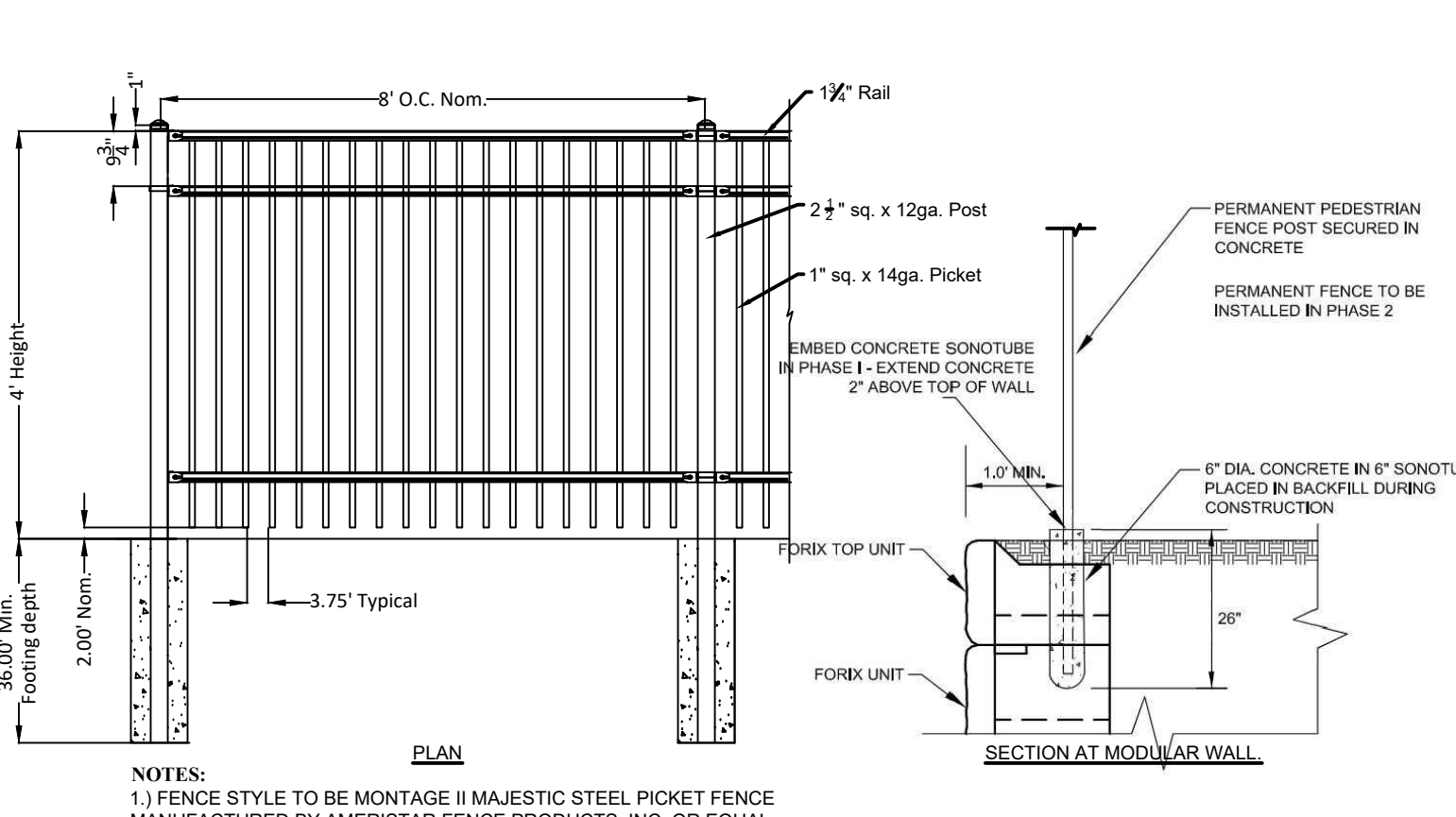
10 STEEL LANDSCAPE EDGING SCALE: NTS



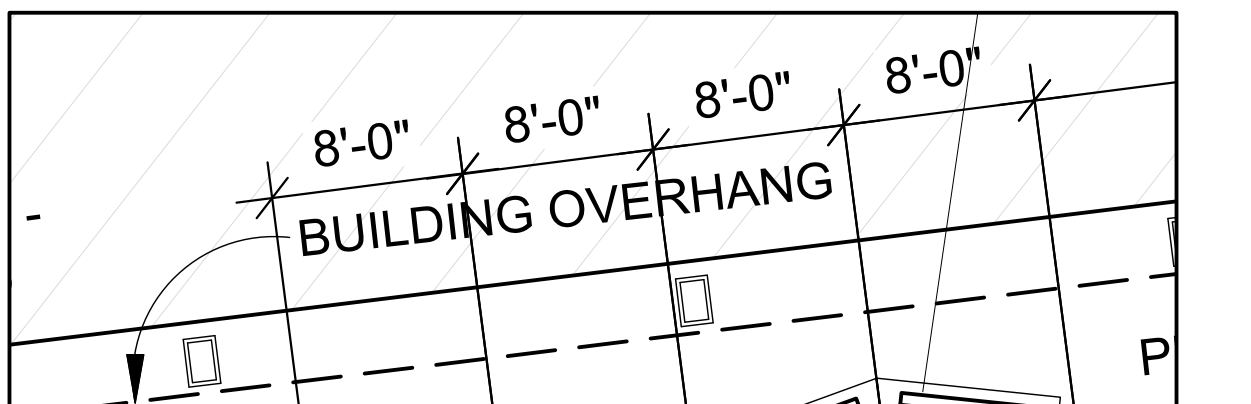
5 CONCRETE SIDEWALK INTEGRAL FLARE FOR LIGHT BOLLARD SCALE: NTS



3 HC PARKING STALL (TYP) SCALE: NTS



7 STEEL PICKET FENCE SCALE: NTS



1 BENCH LAYOUT SCALE: NTS

PLANTING NOTES

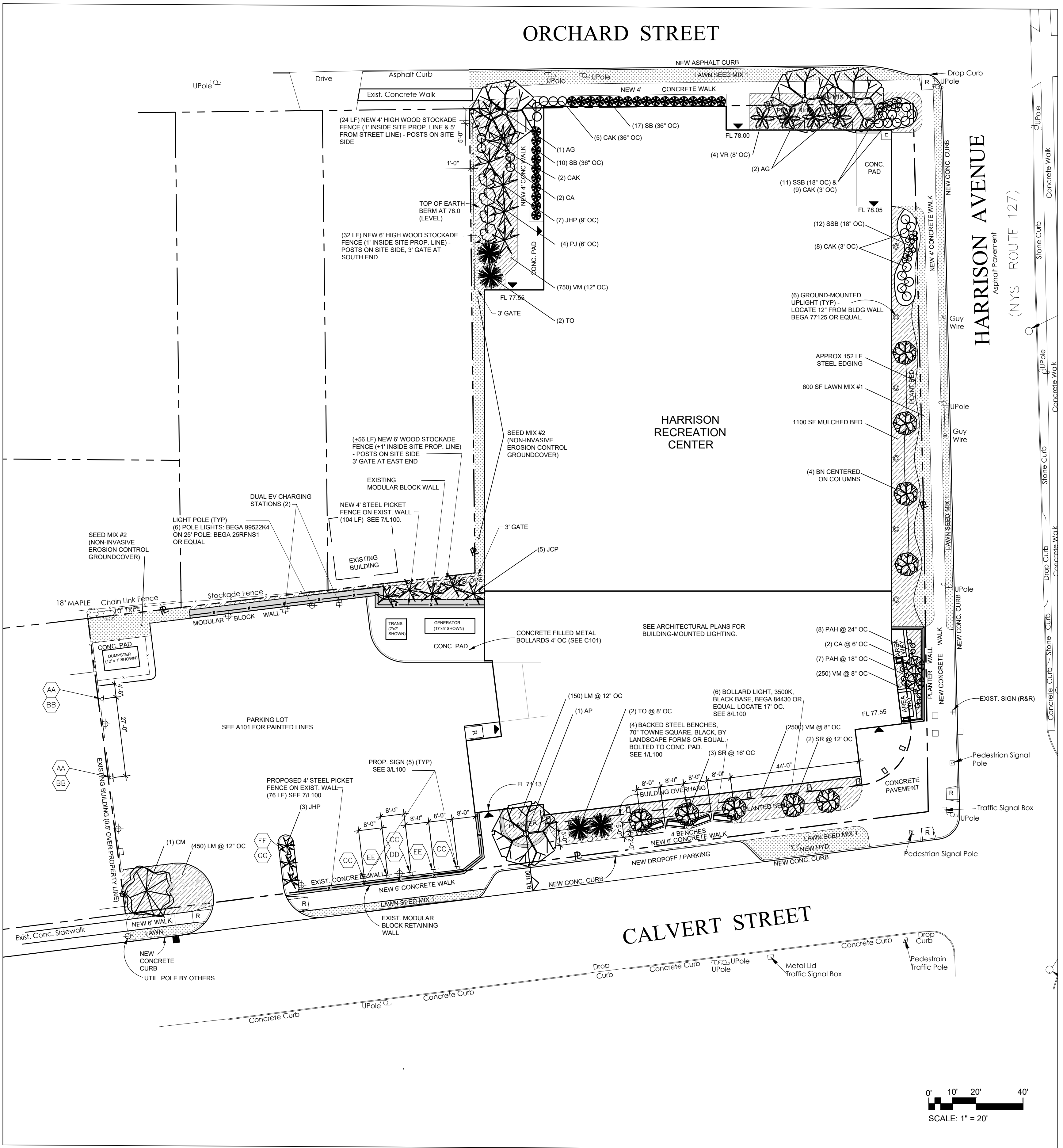
- PLANT SIZES AND GRADING SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014) OF THE AMERICAN ASSOCIATION OF NURSERMEN. ALL PLANT MATERIAL SHALL BE NURSERY GROWN, FULLY FORMED AND IN A HEALTHY CONDITION FREE OF INSECTS, PESTS, DISEASE OR DAMAGE AT THE TIME OF INSTALLATION.
- ALL PLANT MATERIALS MAY BE SUBJECT TO INSPECTION AND REJECTION BY THE ARCHITECT AT ANY TIME PRIOR TO FINAL ACCEPTANCE OF THE WORK.
- OBTAIN ARCHITECT'S APPROVAL OF PLANT SUBSTITUTIONS AND TIME OF PLANTING PRIOR TO DELIVERY OF MATERIALS TO THE SITE.
- OBTAIN ARCHITECT'S APPROVAL OF SEED MIXTURES AND TIME OF SEEDING PRIOR TO DELIVERY OF MATERIALS TO THE SITE.
- STAKE OR FLAG PROPOSED PLANT LOCATIONS FOR APPROVAL BY THE ARCHITECT PRIOR TO COMMENCING PLANTING.
- NOTIFY ARCHITECT AT LEAST 72 HOURS IN ADVANCE OF STARTING PLANTING OPERATIONS. RECEIVE APPROVAL FOR LAYOUT OF ALL BED LINES AND TREE LOCATIONS PRIOR TO INSTALLATION.
- PLANTING GUARANTEE & REPLACEMENT: THE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR ONE FULL YEAR FROM THE TIME OF FORMAL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL REPLACE ANY PLANT THAT IS DEAD OR IN AN UNHEALTHY OR UNSIGHTLY CONDITION THROUGH NO FAULT OF THE OWNER, IN THE OPINION OF THE OWNER'S REPRESENTATIVE. REPLACEMENTS, IF REQUIRED, SHALL BE EQUAL IN ALL RESPECTS TO THE ORIGINAL SPECIFICATIONS.
- CONTRACTOR SHALL MAINTAIN ALL PLANTINGS UNTIL FINAL ACCEPTANCE OF THE WORK. MAINTENANCE INCLUDES WATERING AS MANY TIMES AS NECESSARY TO MAINTAIN PLANT VIGOR.
- CONTRACTOR SHALL BE FAMILIAR WITH LOCATIONS OF PRE-EXISTING ABOVE-GROUND AND BELOW-GROUND UTILITIES, MECHANICAL EQUIPMENT AND OTHER FEATURES IN THE WORK AREA BEFORE PROCEEDING WITH WORK AND PROTECT FROM DAMAGE IN PHASE 2 WORK. CONFLICTS WITH PLANTINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- CONTACT "DIG SAFELY NEW YORK" #11 OR 1-800-962-7962 FOR LOCATION OF UNDERGROUND UTILITIES 72 HOURS PRIOR TO STARTING ANY EXCAVATION.
- TREES NEED NOT BE STAKED EXCEPT IN LOCATIONS EXPOSED TO WINDS OR HEAVY PEDESTRIAN TRAFFIC, OR AS DIRECTED BY THE ARCHITECT. ALL STAKES AND GUYING MATERIALS MUST BE REMOVED AFTER ONE YEAR.
- ALL PLANTINGS ARE TO BE INSTALLED BY A QUALIFIED LANDSCAPE CONTRACTOR.
- CONTRACTOR SHALL CARRY WORKMAN'S COMPENSATION INSURANCE AND COMPREHENSIVE GENERAL LIABILITY INSURANCE. CERTIFICATES WILL BE REQUIRED PRIOR TO SIGNING CONTRACTS.
- IF THERE IS A DISCREPANCY BETWEEN PLANT QUANTITY SHOWN ON THE PLAN AND PLANT LIST THE PLANT LIST SHALL PREVAIL.
- TEST PLANTING SOIL FOR PH AND NUTRIENTS AND ADJUST IN ACCORDANCE WITH AGRONOMY LAB RECOMMENDATIONS PRIOR TO PLANTING.
- REFER TO TREE, SHRUB AND GROUND COVER PLANTING DETAILS.
- ALL EXPOSED SOIL AREAS IN THE WORK AREA ARE TO BE SEEDED AND MULCHED UNLESS OTHERWISE SHOWN.

PLANT MATERIALS LIST

| Key | Botanical Name | Common Name | Quant | Size | Planting Remarks |
|---------------------------|---|-----------------------------|-------|---------------|-----------------------|
| TREES | | | | | |
| AG | <i>Acer griseum</i> | Paperbark Maple | 3 | 6-7' HT | |
| BN | <i>Betula nigra</i> | Heritage River Birch | 4 | 2 1/2"-3" CAL | TRIPLE-STEM |
| AP | <i>Acer palmatum 'Sango-Kaku'</i> | Coral Bark Maple | 1 | 7'-8' HT | B&B, SPECIMEN QUALITY |
| SR | <i>Syringa reticulata</i> | Japanese Tree Lilac | 5 | 2 1/2"-3" CAL | B&B |
| TO | <i>Thuja occidentalis 'Nigra'</i> | Dark American Arborvitae | 4 | 8'-10' HT | B&B |
| SHRUBS | | | | | |
| CM | <i>Cornus mas</i> | Cornelian Cherry | 1 | 30"-36" | |
| CA | <i>Cotoneaster aculeata</i> | Cranberry Cotoneaster | 4 | 2 GAL | PLANT 6" OC |
| JCP | <i>Juniperus chinensis Pfitzeriana</i> | Pfitzer Juniper | 5 | 5 GAL | |
| JHP | <i>Juniperus horizontalis Plumosa</i> | Andorra Juniper | 10 | 5 GAL | |
| PJ | <i>Picea japonica 'Mountain Fire'</i> | Mountain Fire Spruce | 4 | #3 CONT. | PLANT 6" OC |
| SB | <i>Spirea x bumalda 'Goldflame'</i> | Goldflame Spirea | 27 | #3 CONT. | PLANT 36" O.C. |
| VR | <i>Viburnum rhytidophyloides Alleg.</i> | Allegheny Viburnum | 4 | 3'-4" | PLANT 8" O.C. |
| GROUND COVERS | | | | | |
| LM | <i>Liriope muscari Variegata</i> | Blue Lilyturf | 600 | #1 CONT. | PLANT 12" O.C. |
| VM | <i>Vinca minor</i> | Periwinkle | 3500 | 1 Yr | |
| ORNAMENTAL GRASSES | | | | | |
| CAK | <i>Calamagrostis acutiflora Rarf Forester</i> | Karl Foerster Reed Grass | 24 | 2 GAL | PLANT 36" OC |
| PAH | <i>Pennisetum alopecuroides 'Hameln'</i> | Hameln Dwarf Fountain Grass | 15 | 2 GAL | PLANT 24" O.C. |
| SSB | <i>Schizachyrium scoparium 'The Blues'</i> | Little Bluestem | 23 | #1 CONT. | PLANT 18" O.C. |

WOOD FENCING

- WOOD FENCING PROPOSED ALONG PROPERTY LINE ADJOINING A RESIDENCE SHALL HAVE THE FINISHED SIDE OF FENCE FACING THE ADJOINING PROPERTY AND POSTS ON PROJECT SIDE.



HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528



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| 4 | 06/05/2024 | ISSUE FOR BID - PHASE 2 |
| 3 | 02/16/2024 | PHASE 2 PERMIT ADDENDUM 1 |
| 2 | 01/24/2024 | ISSUE FOR BID |
| 1 | 01/16/2024 | ISSUE FOR PERMIT |
| No. | | |

Sheet Title: **LANDSCAPE PLAN & SITEWORK DETAILS**

Job No.: 2020-1005 Date: 01/16/2024

Plan Scale: 1" = 20' Drawn / Checked: FW/LRA

Sheet Number: **L100**

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Sheet Title

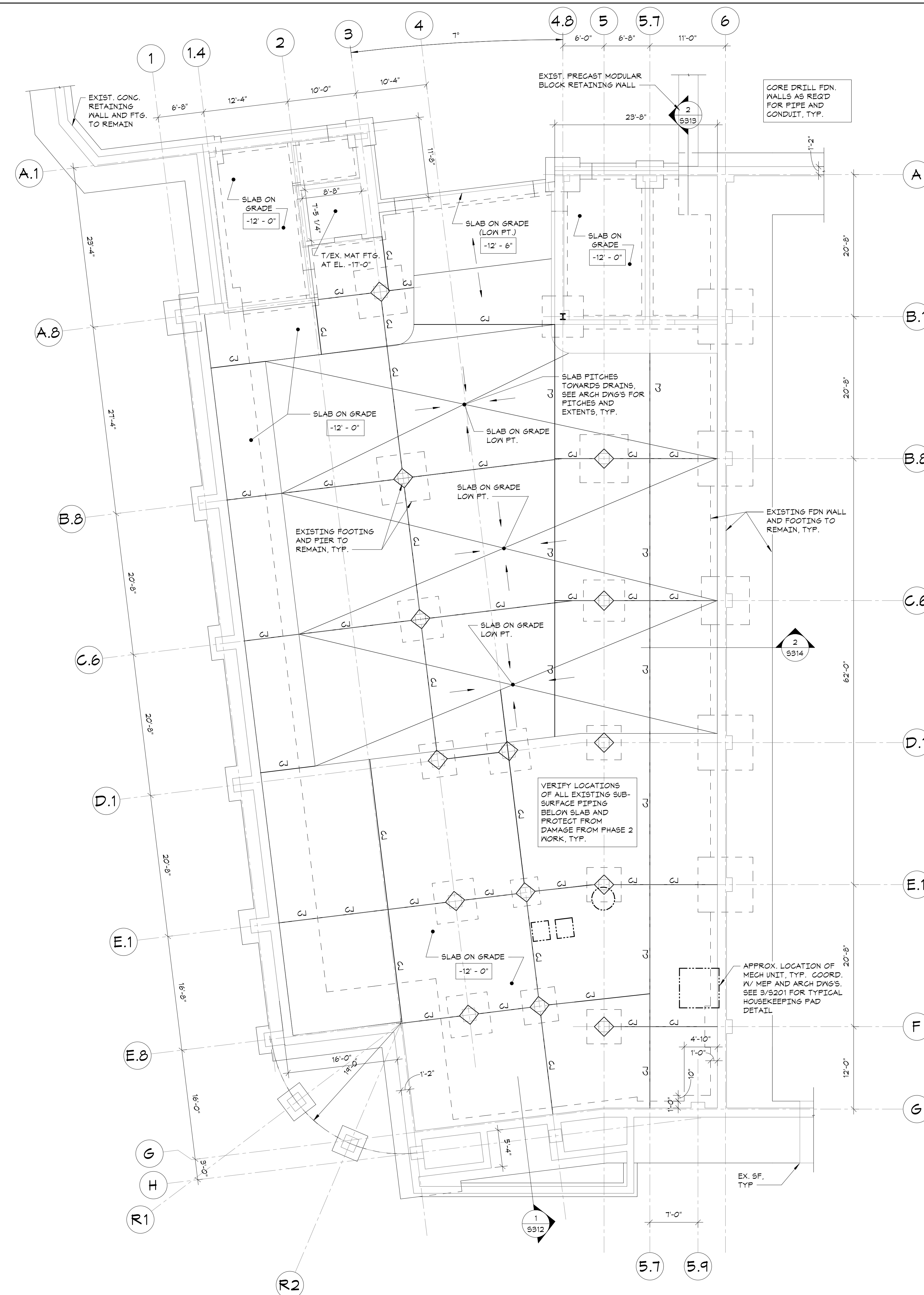
**LOWER LEVEL
SLAB-ON-GRADE
PLAN**

Job No. 20029.00 Date 2020-06-01

Scale AS NOTED Drawn / Checked JM / EM

Sheet Number

S100



LOWER LEVEL SLAB-ON-GRADE PLAN
1/8"=1'-0"



- TOP OF PARKING LEVEL = -12'-0" FROM FIRST FLOOR DATUM.
- TYPICAL SLAB-ON-GRADE CONSTRUCTION: 6" CONCRETE SLAB ON GRADE, REINFORCED WITH 6x6 - #2 (M&2) WELDED WIRE FABRIC, UNLESS OTHERWISE NOTED. FOR DETAILS, SEE 1/3201.
- FOR FOUNDATION CONDITION AT EXTERIOR DOORS, SEE "TYPICAL DETAIL AT EXTERIOR DOORS".
- COORDINATE ALL PITS, TRENCHES, POCKETS, BRICK SHELVES, SLEEVES, PENETRATIONS AND INSERTS IN CONCRETE WALLS AND SLABS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- SEE GENERAL NOTES ON SHEET 5001 FOR ADDITIONAL INFORMATION.

LEGEND:

- [ELEVATION] INDICATES TOP OF CONCRETE SLAB ELEVATION FROM TOP OF FIRST FLOOR DATUM ELEVATION. MAINTAIN FULL SLAB THICKNESS AT SLOPED AND DEPRESSED AREAS. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT.
- "CJ" INDICATES APPROXIMATE LOCATION OF CONTROL/CONSTRUCTION JOINTS IN SLABS ON GRADE. FOR DETAILS, SEE "TYPICAL SLAB ON GRADE DETAIL".

HARRISON RECREATION & COMMUNITY CENTER

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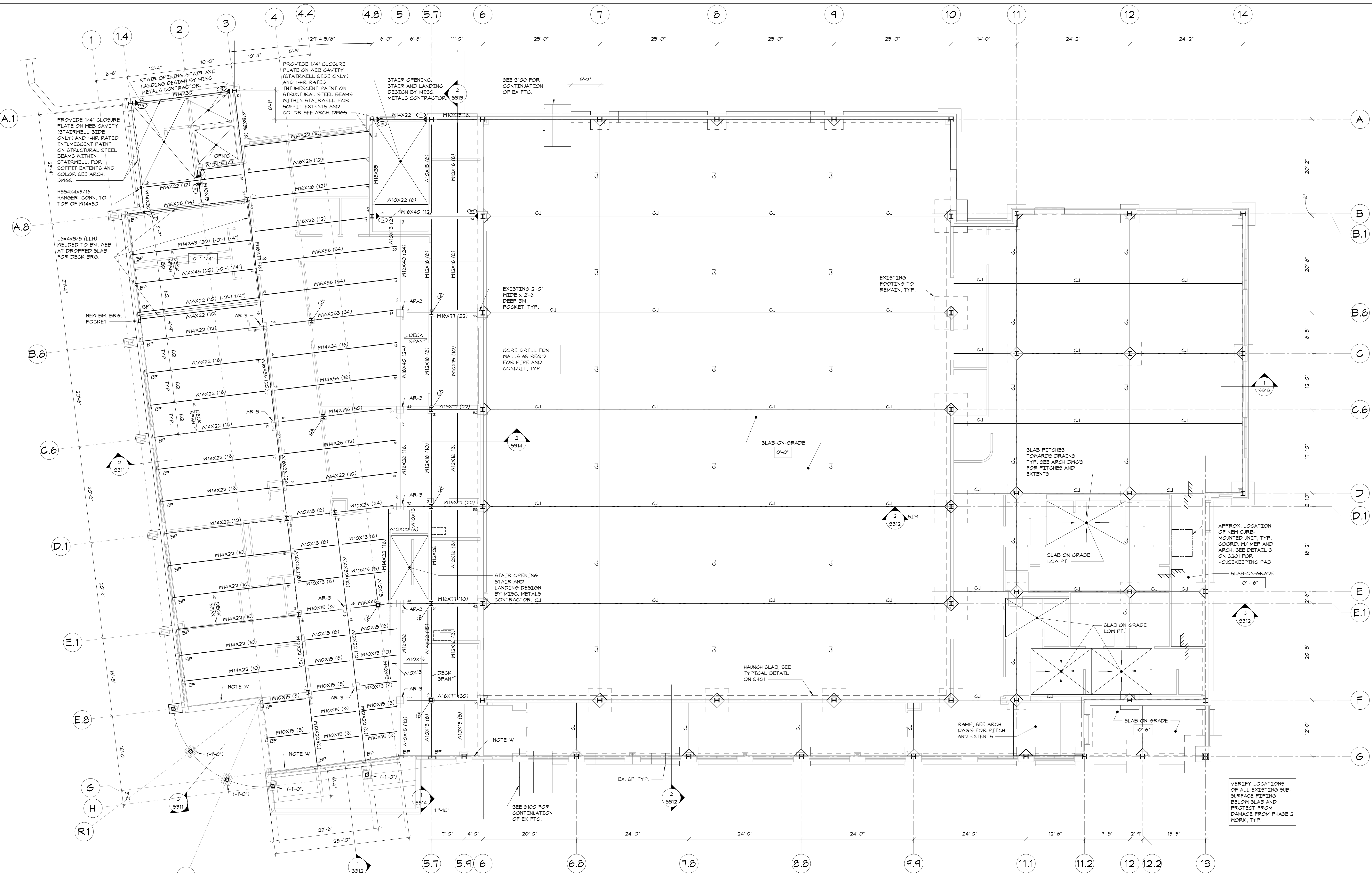
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| Job No. | Date |
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| 20029.00 | 2020-06-01 |

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| AS NOTED | JM / EM |

Sheet Number

S101



FIRST FLOOR FRAMING AND SLAB-ON-GRADE PLAN

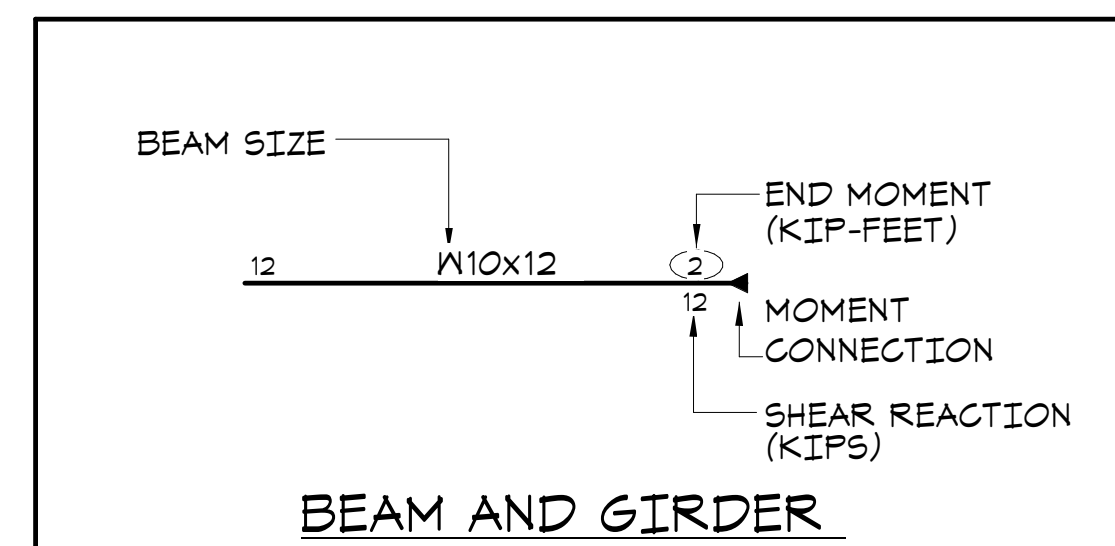
1/8"=1'-0"

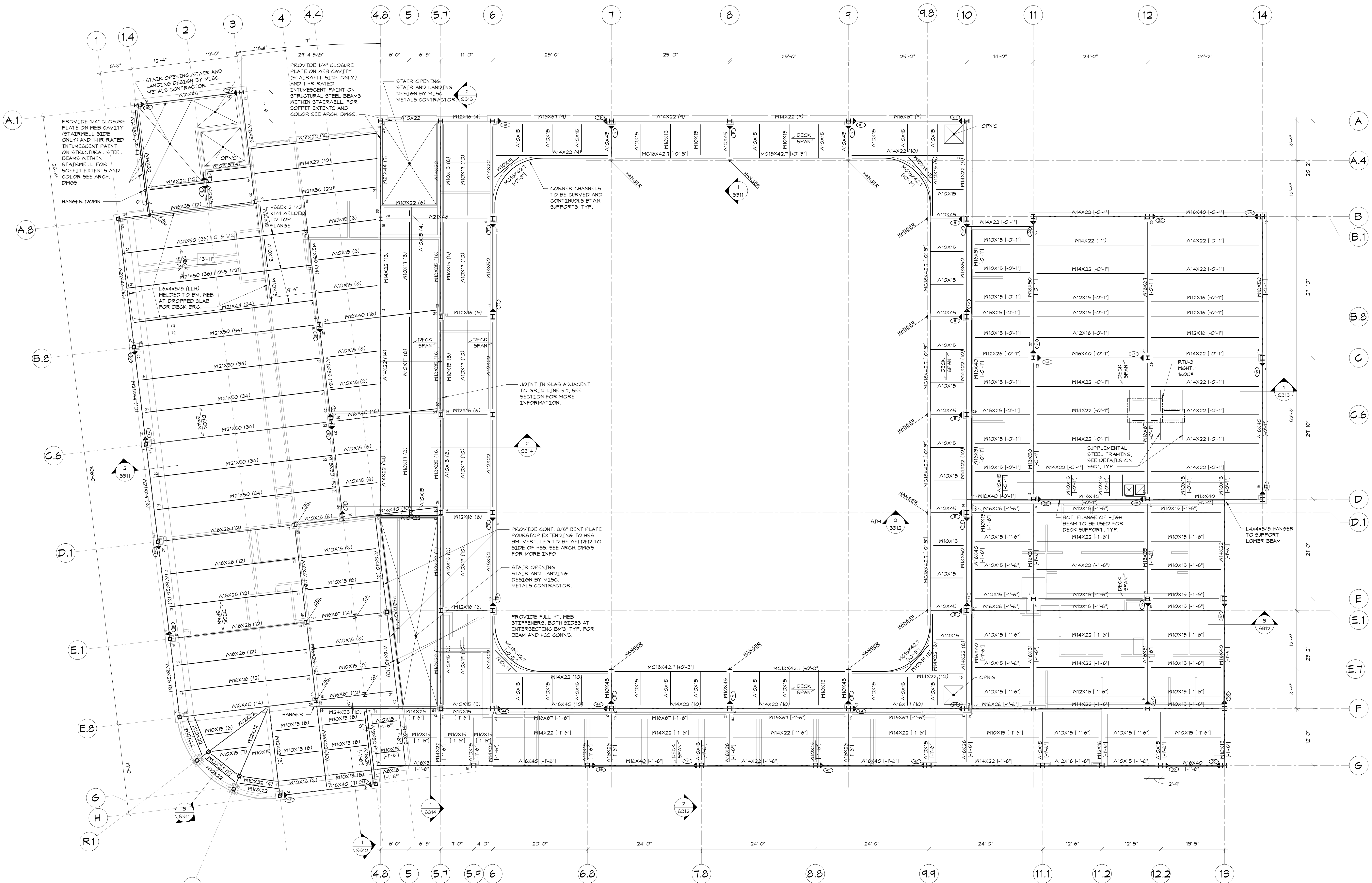


- TOP OF FIRST FLOOR = DATUM ELEVATION 0'-0" = TOPOGRAPHICAL ELEVATION = 71.55'
- TOP OF SLAB AT MULTI-USER TOILET ROOMS ELEVATION: -0'-2 1/2" ABOVE DATUM. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS.
- TYPICAL SLAB-ON-GRADE CONSTRUCTION: 6" CONCRETE SLAB ON GRADE, REINFORCED WITH 6x6 - W2.1W2.1 WELDED WIRE FABRIC, UNLESS OTHERWISE NOTED. FOR DETAILS, SEE 1/5201
- TOP OF STEEL ELEVATION (UNDERSIDE OF DECK) = -0'-5 1/2" UNLESS OTHERWISE NOTED THIS [1/2"-X'-XX"] FROM ELEVATION -0'-5 1/2".
- FLOOR CONSTRUCTION: 5-1/2" COMPOSITE CONCRETE SLAB = 3-1/2" NORMAL WEIGHT CONCRETE ON 2" COMPOSITE DECK REINFORCED WITH 6x6-W1.4XW1.4 W/WF AS PER TYPICAL COMPOSITE BEAM FLOOR CONSTRUCTION DETAIL AND GENERAL NOTES.
- ALL FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES, UNLESS OTHERWISE INDICATED.
- FOR FOUNDATION CONDITION AT EXTERIOR DOORS, SEE TYPICAL DETAIL AT EXTERIOR DOORS.
- COORDINATE ALL PITS, TRENCHES, POCKETS, BRICK SHELVEYS, SLEEVES, PENETRATIONS AND INSERTS IN CONCRETE WALLS AND SLABS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- SEE GENERAL NOTES ON SHEET 5001 FOR ADDITIONAL INFORMATION.

LEGEND:

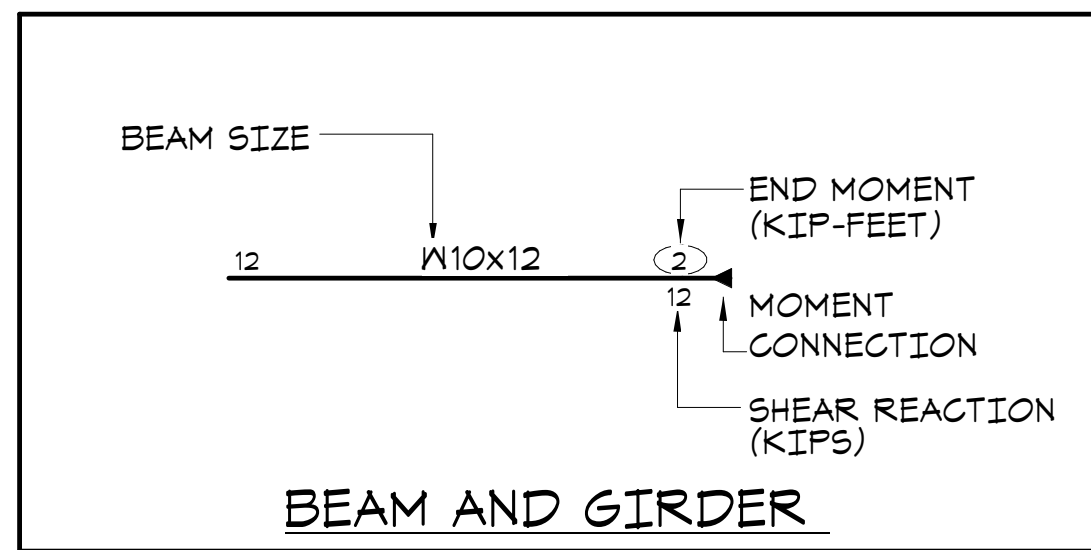
- "NOTE 'A'" INDICATES CONTINUOUS L4x4x3/8 SLAB SUPPORT, ANCHORED TO FOUNDATION WALL WITH 1/2" DIAMETER HELIX K16X K16X-EZ ANCHORS AT 2'-0" O.C., HAVING 4 1/4" MINIMUM EMBEDMENT.
- "BP" INDICATES EXISTING BEAM BEARING POCKET. SEE DETAIL 4/5301 FOR BEARING PLATE AND ANCHOR INFORMATION.
- "AR-" INDICATES BASE PLATE SIZES AND DIMENSIONS, SEE 1/5303.
- "CA" AND "CB" INDICATE COLUMN ABOVE AND COLUMN BELOW RESPECTIVELY, SEE COLUMN SCHEDULE ON DRAWING 5305.
- [Symbol] INDICATES TOP OF CONCRETE SLAB ELEVATION FROM TOP OF FIRST FLOOR DATUM ELEVATION. MAINTAIN FULL SLAB THICKNESS AT SLOPED AND DEPRESSED AREAS. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT.
- "CJ" INDICATES APPROXIMATE LOCATION OF CONTROL/CONSTRUCTION JOINTS IN SLABS ON GRADE. FOR DETAILS, SEE TYPICAL SLAB ON GRADE DETAIL.

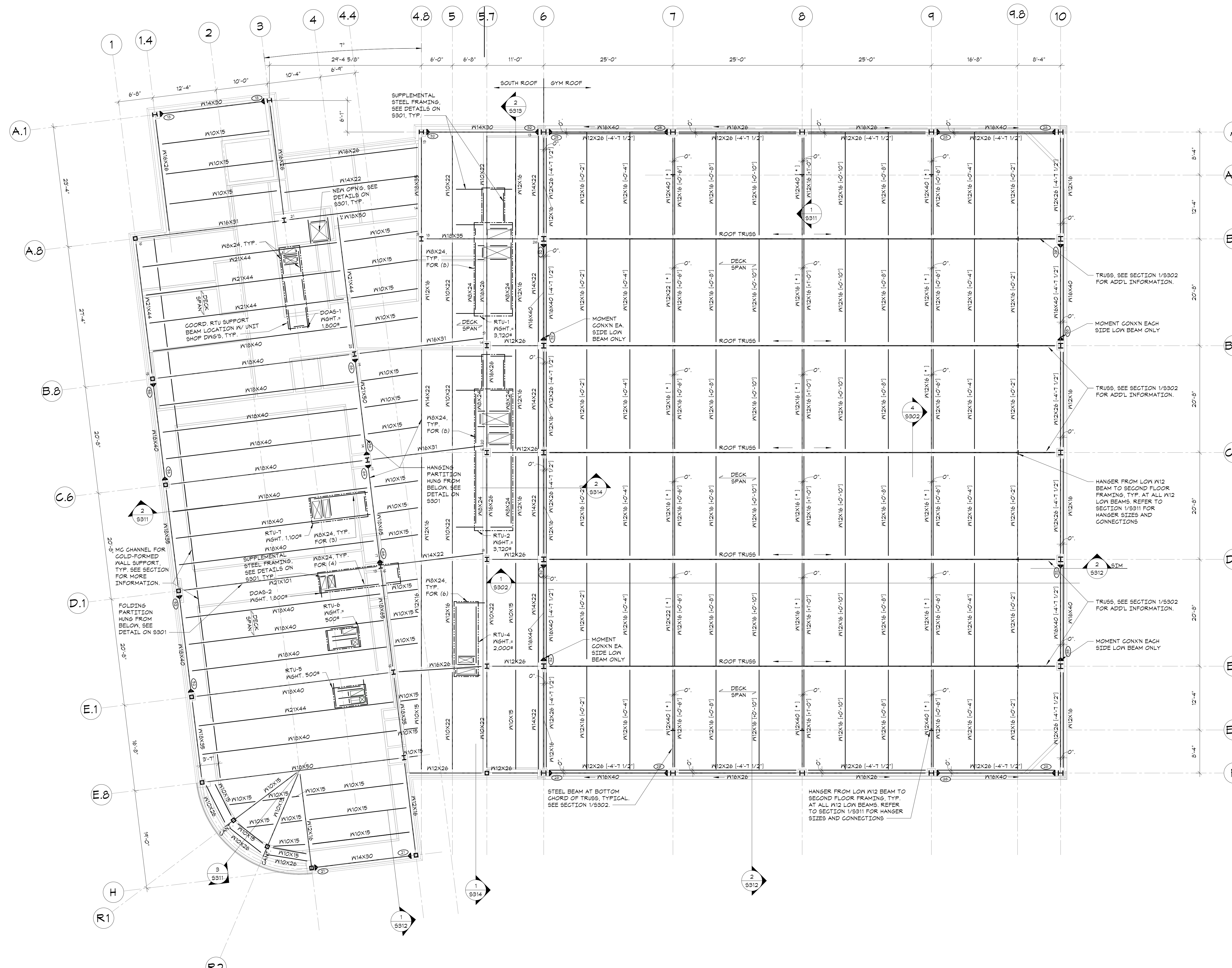




SECOND FLOOR & LOW ROOF FRAMING PLAN

- TOP OF SECOND FLOOR ELEVATION: 14'-0" ABOVE DATUM.
- TOP OF SLAB AT MULTI-USER TOILET ROOMS ELEVATION: 13'-11" ABOVE DATUM. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS.
- TOP OF STEEL ELEVATION (UNDERSIDE OF DECK) = 13'-7 1/2" UNLESS OTHERWISE NOTED THUS (1'-X"-X'-X") FROM ELEVATION 14'-0" (FLOOR ELEVATION).
- FLOOR CONSTRUCTION AT SECOND FLOOR AND TERRACE: 4-1/2" COMPOSITE CONCRETE SLAB + 2-1/2" NORMAL WEIGHT CONCRETE ON 2" COMPOSITE DECK REINFORCED WITH 6x6-W14X14 WWF AS PER TYPICAL COMPOSITE BEAM FLOOR CONSTRUCTION DETAIL AND GENERAL NOTES.
- ROOF DECK CONSTRUCTION: SEE GENERAL NOTES ON SHEET S001.
- ALL FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES, UNLESS OTHERWISE INDICATED.
- COORDINATE SIZE AND LOCATION OF ALL FLOOR PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ALL FLOOR PENETRATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION OF PENETRATION FRAMING ELEMENTS. PROVIDE FRAMING AS INDICATED IN TYPICAL ROOF/FLOOR OPENING DETAIL. DO NOT SCALE OPENINGS.
- 'CA' AND 'CB' INDICATE COLUMN ABOVE AND COLUMN BELOW RESPECTIVELY. SEE COLUMN SCHEDULE ON DRAWING S003.
- SEE GENERAL NOTES ON SHEET S001 FOR ADDITIONAL INFORMATION.

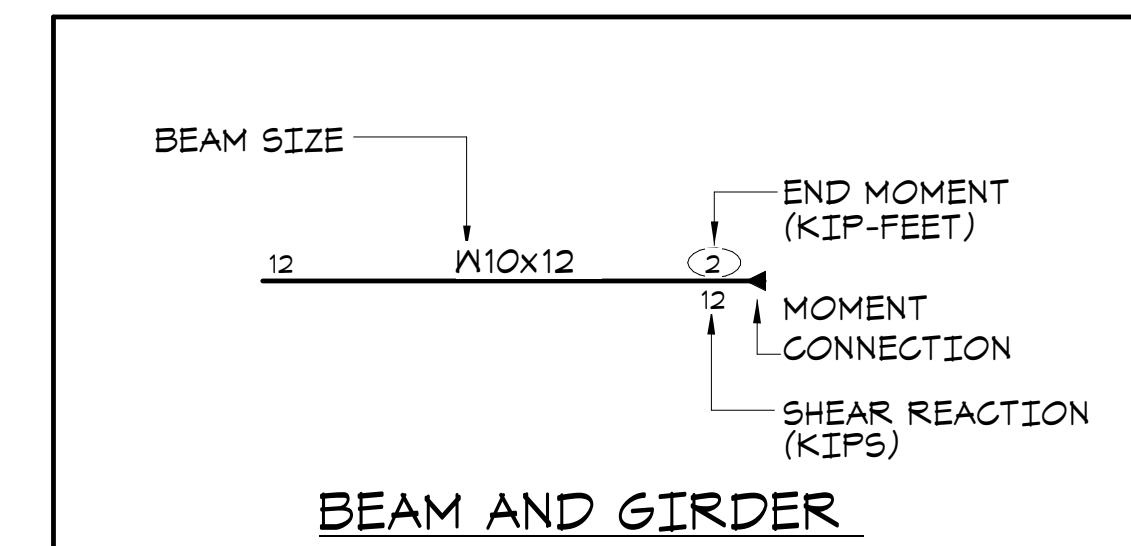




ROOF FRAMING PLAN
1/8"=1'-0"



- GYMNASIUM ROOF TOP OF STEEL ELEVATION (UNDERSIDE OF DECK) AT LOW POINT = 31'-2 1/2" UNLESS OTHERWISE NOTED THIS [v-x-xx'] FROM ELEVATION 31'-2 1/2".
- FOR STEEL ELEVATION NOTED THIS [*] ALIGN BEAM BOTTOM FLANGE WITH BOTTOM FLANGE OF TRUSS BOTTOM CHORD.
- SOUTH ROOF TOP OF STEEL ELEVATION (UNDERSIDE OF DECK) = 26'-11" UNLESS OTHERWISE NOTED THIS [v-x-xx'] FROM ELEVATION 31'-2 1/2".
- ROOF DECK CONSTRUCTION: SEE GENERAL NOTES ON SHEET S001.
- ALL FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES, UNLESS OTHERWISE INDICATED.
- COORDINATE SIZE AND LOCATION OF ALL ROOF PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ALL ROOF PENETRATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION OF PENETRATION FRAMING ELEMENTS. PROVIDE FRAMING AS INDICATED IN "TYPICAL ROOF/FLOOR OPENING DETAIL". DO NOT SCALE OPENINGS.
- SEE GENERAL NOTES ON SHEET S001 FOR ADDITIONAL INFORMATION.



Key Plan

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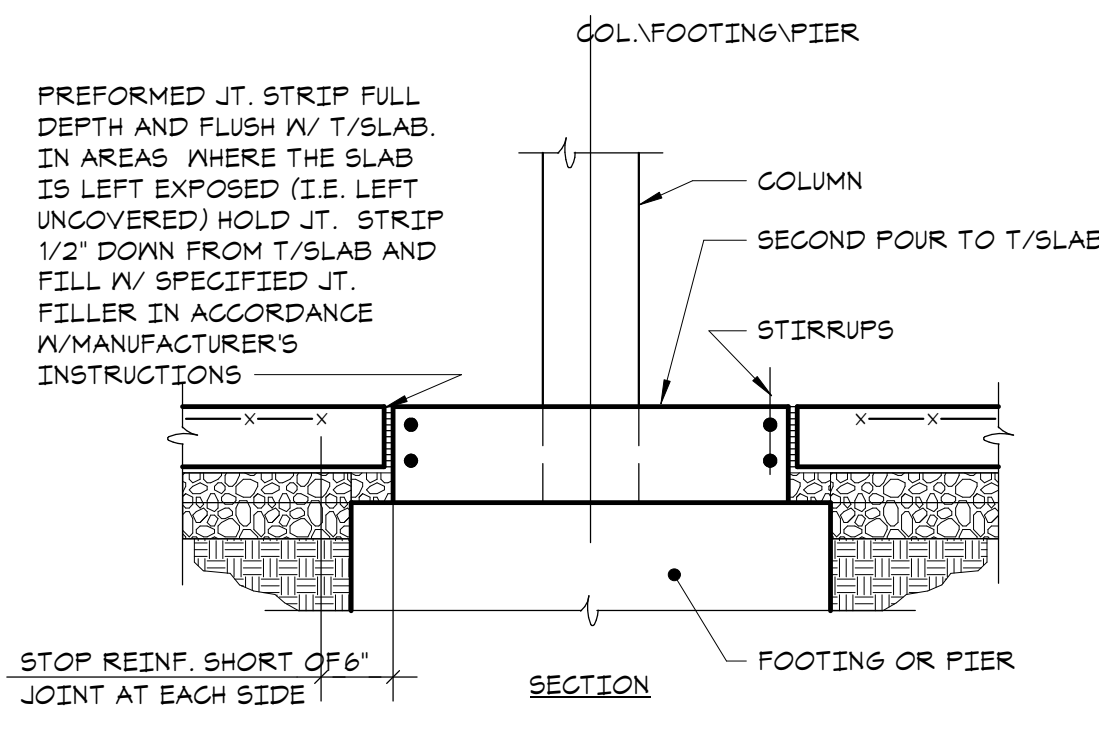
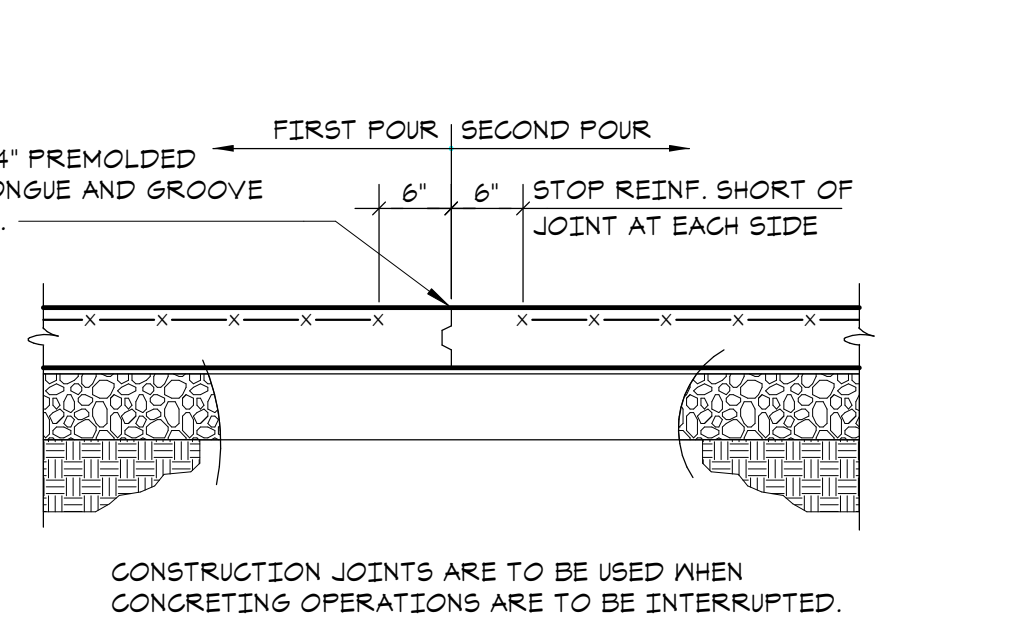
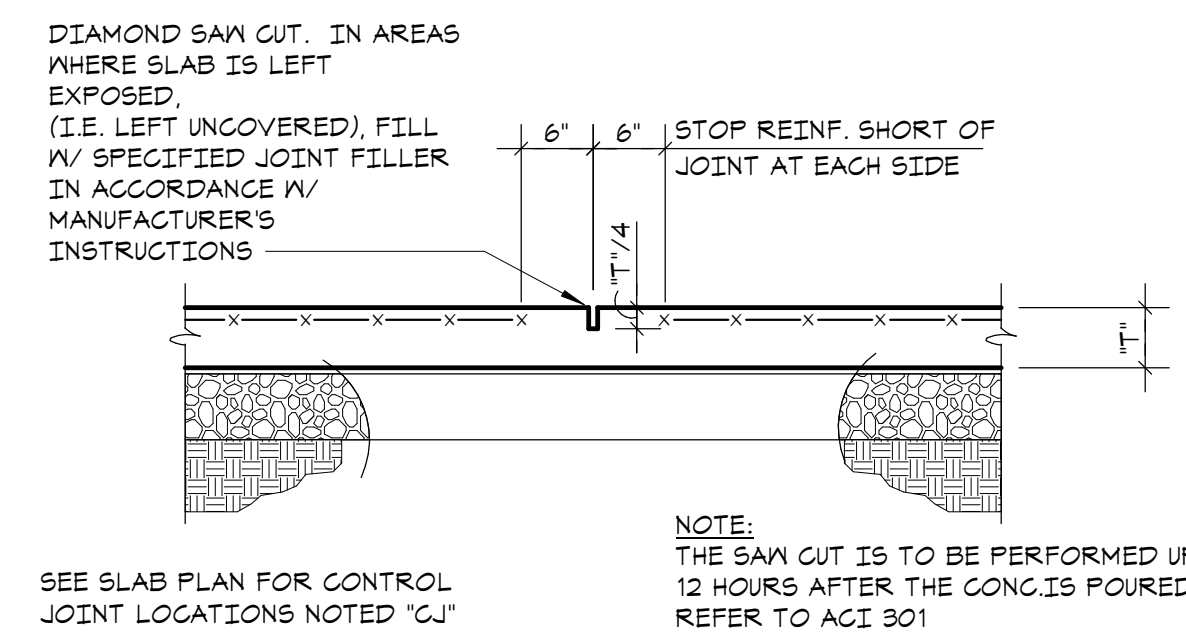
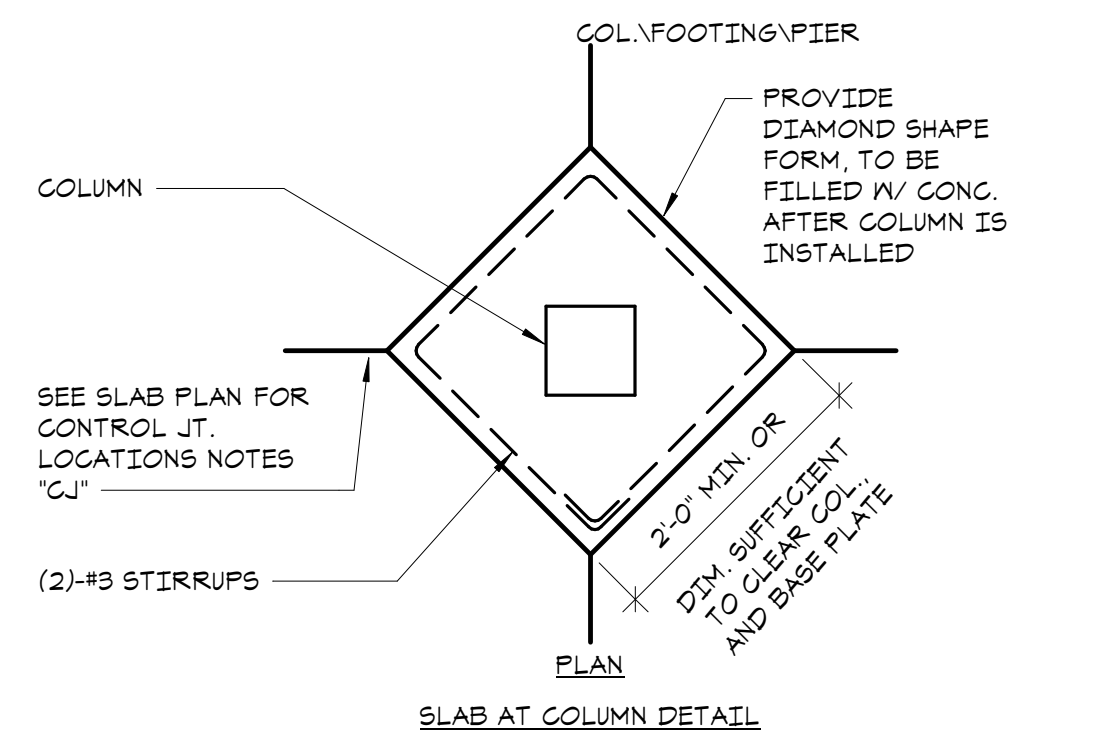
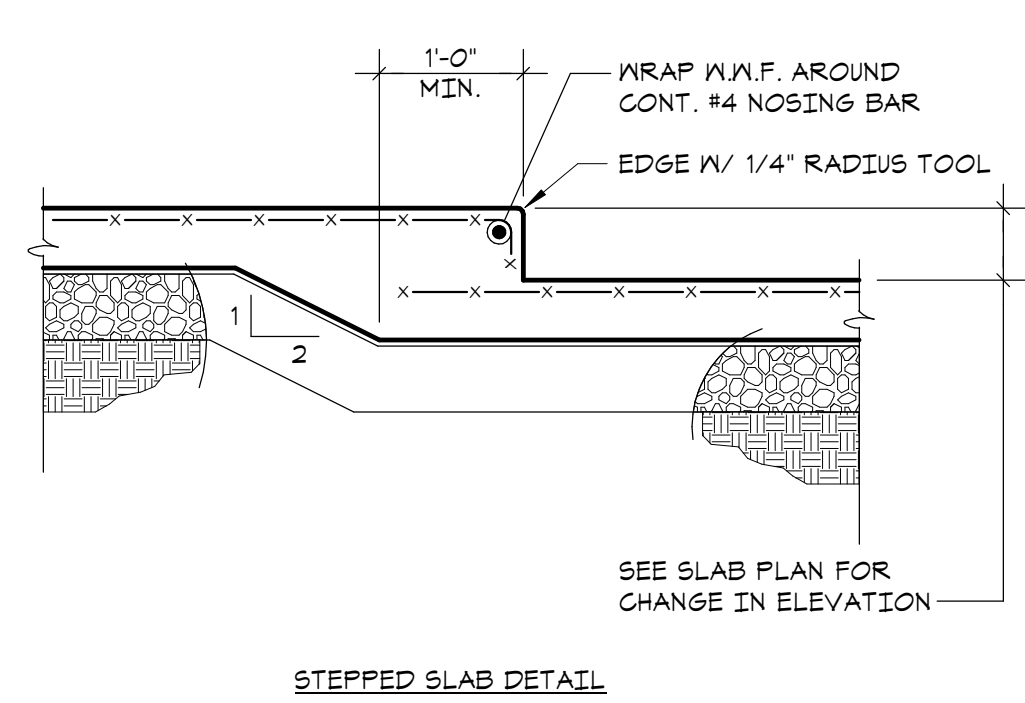
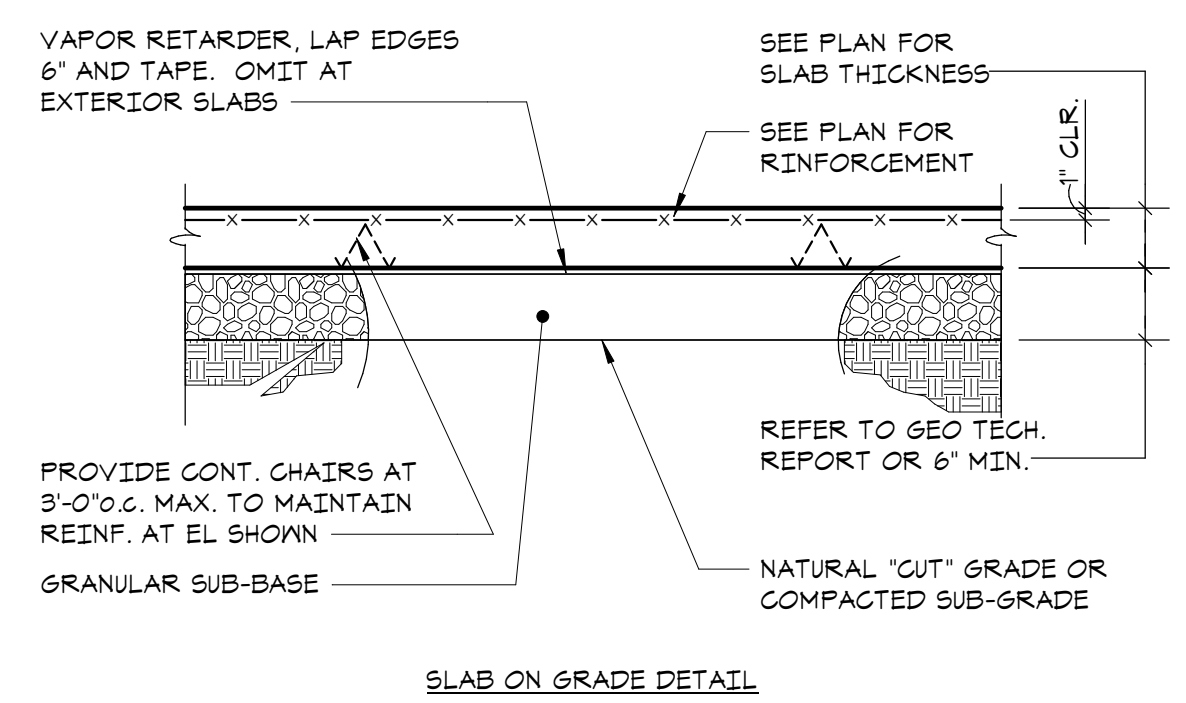
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ROOF FRAMING PLAN

Job No. 20029.00 Date 2020-06-01

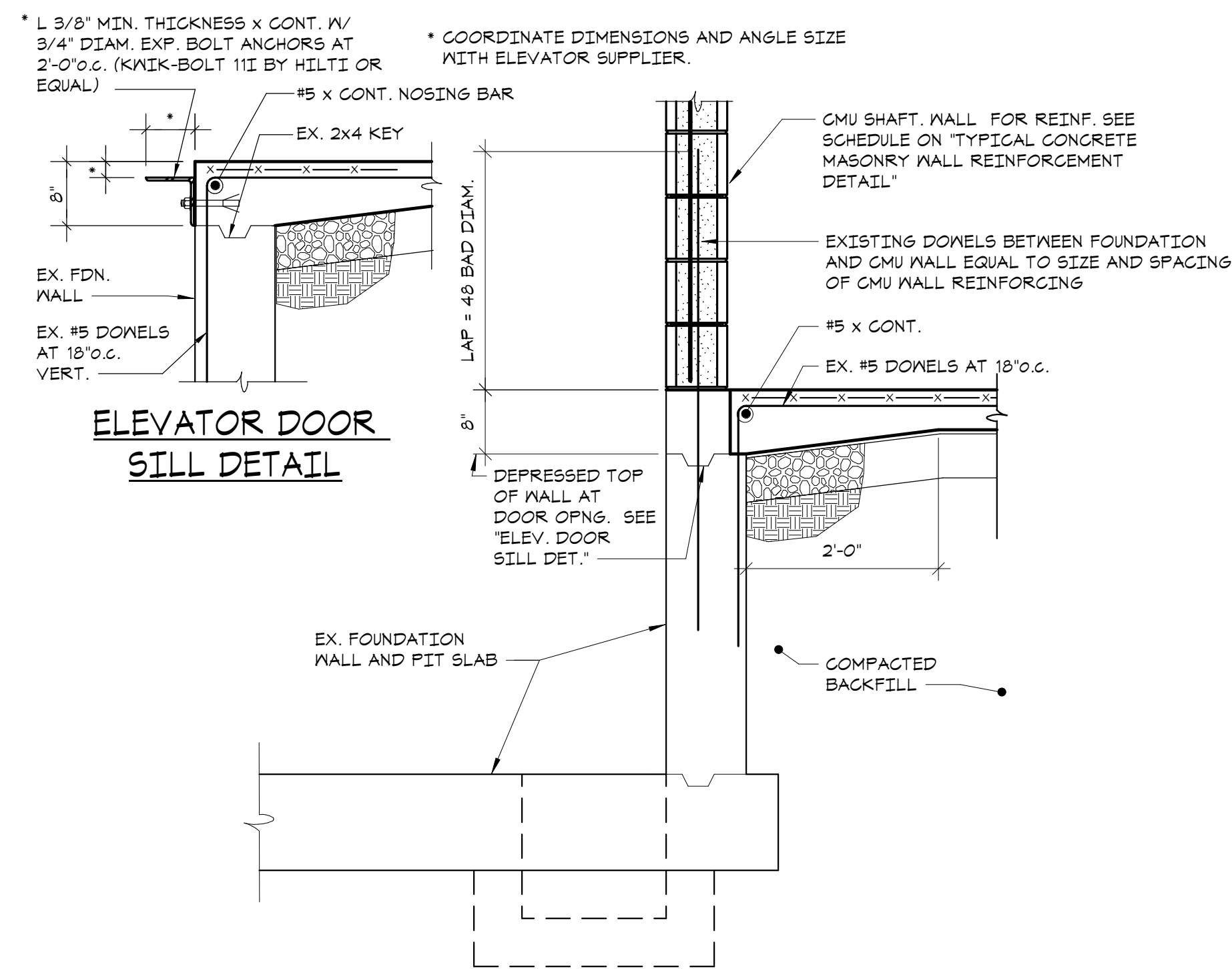
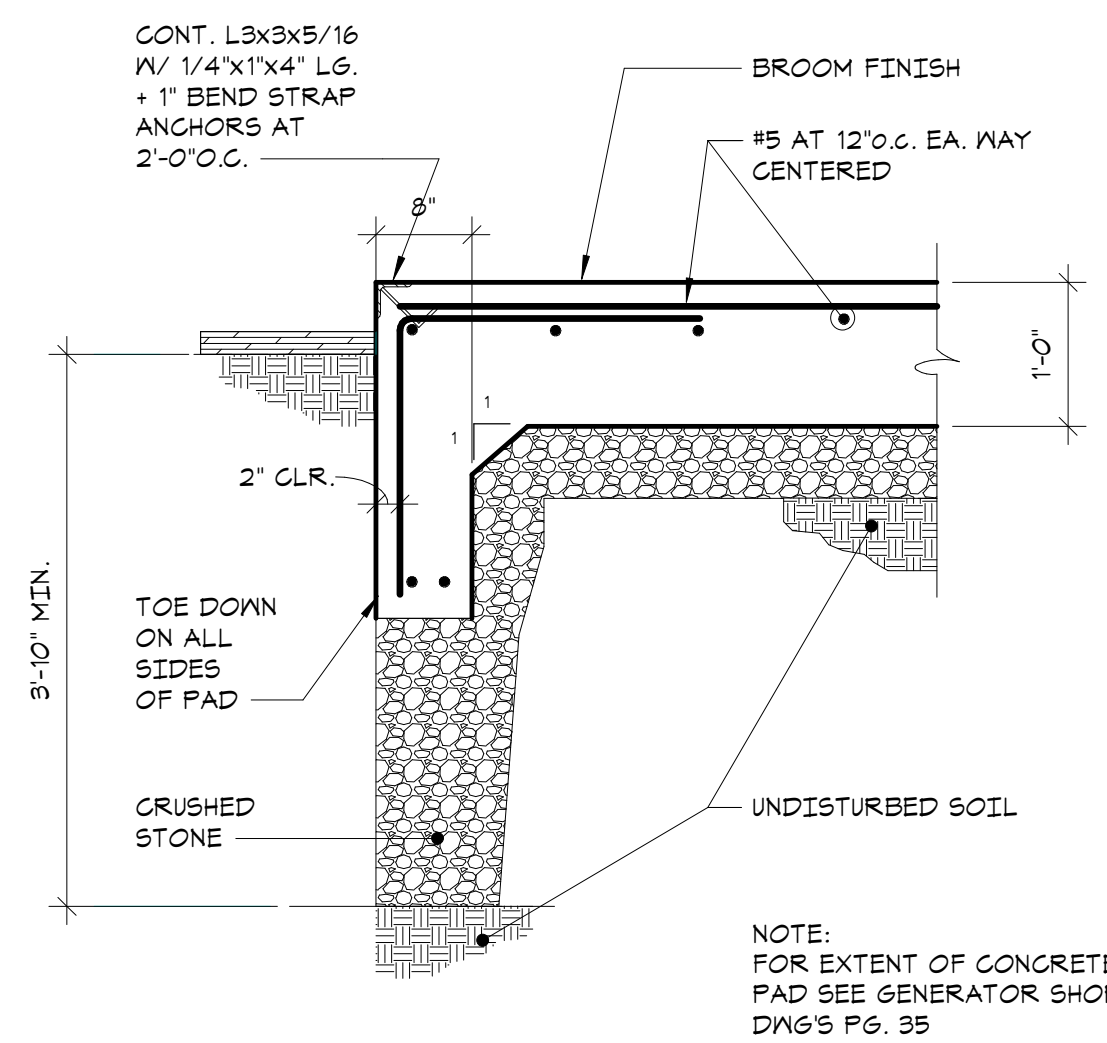
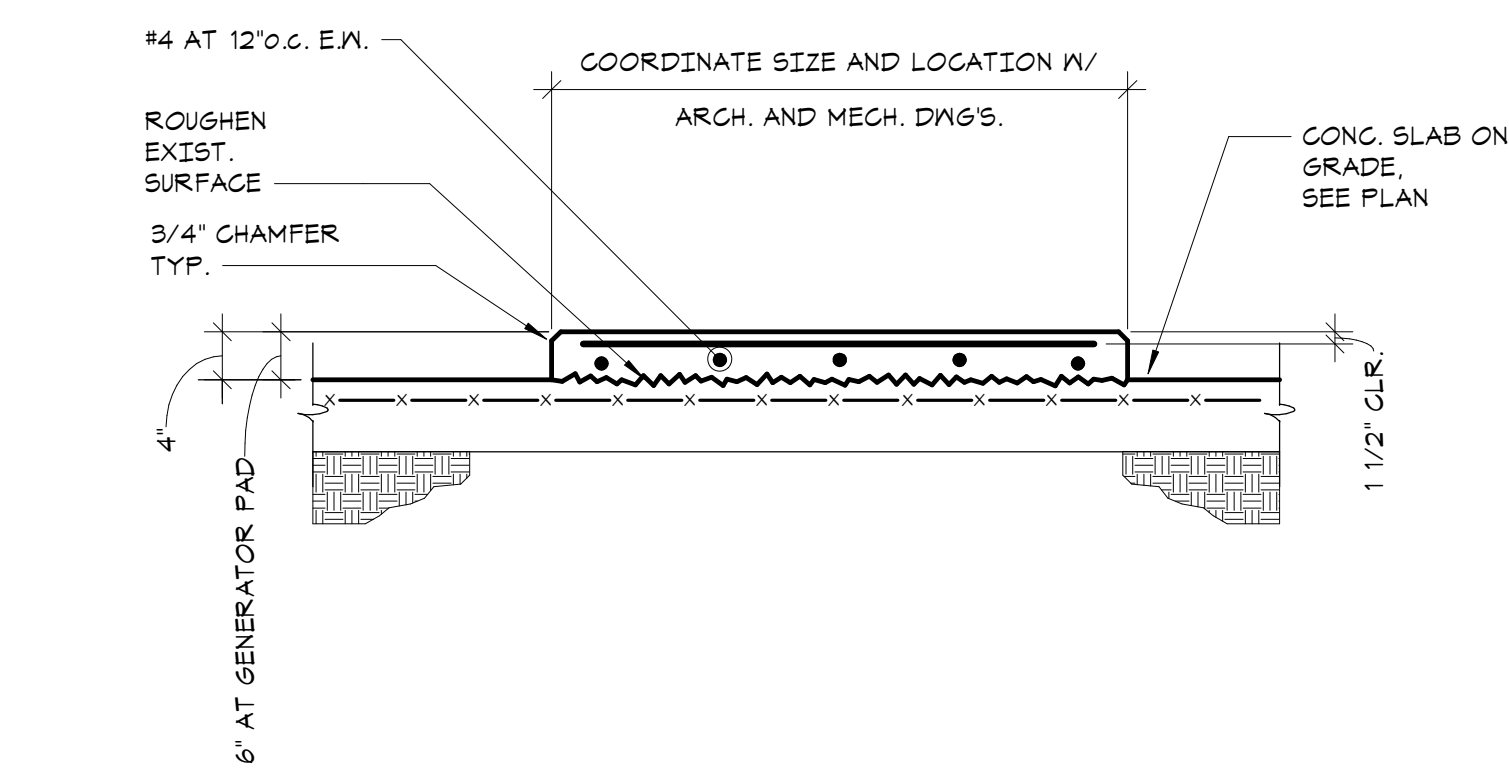
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Sheet Number



1 TYPICAL SLAB ON GRADE DETAIL
NO SCALE

2 TYPICAL DETAIL AT EXTERIOR DOORS
NO SCALE



3 HOUSEKEEPING PAD DETAIL
NO SCALE

4 EQUIPMENT PAD DETAIL
NO SCALE

5 TYPICAL ELEVATOR PIT DETAIL
NO SCALE

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No. Date Issue

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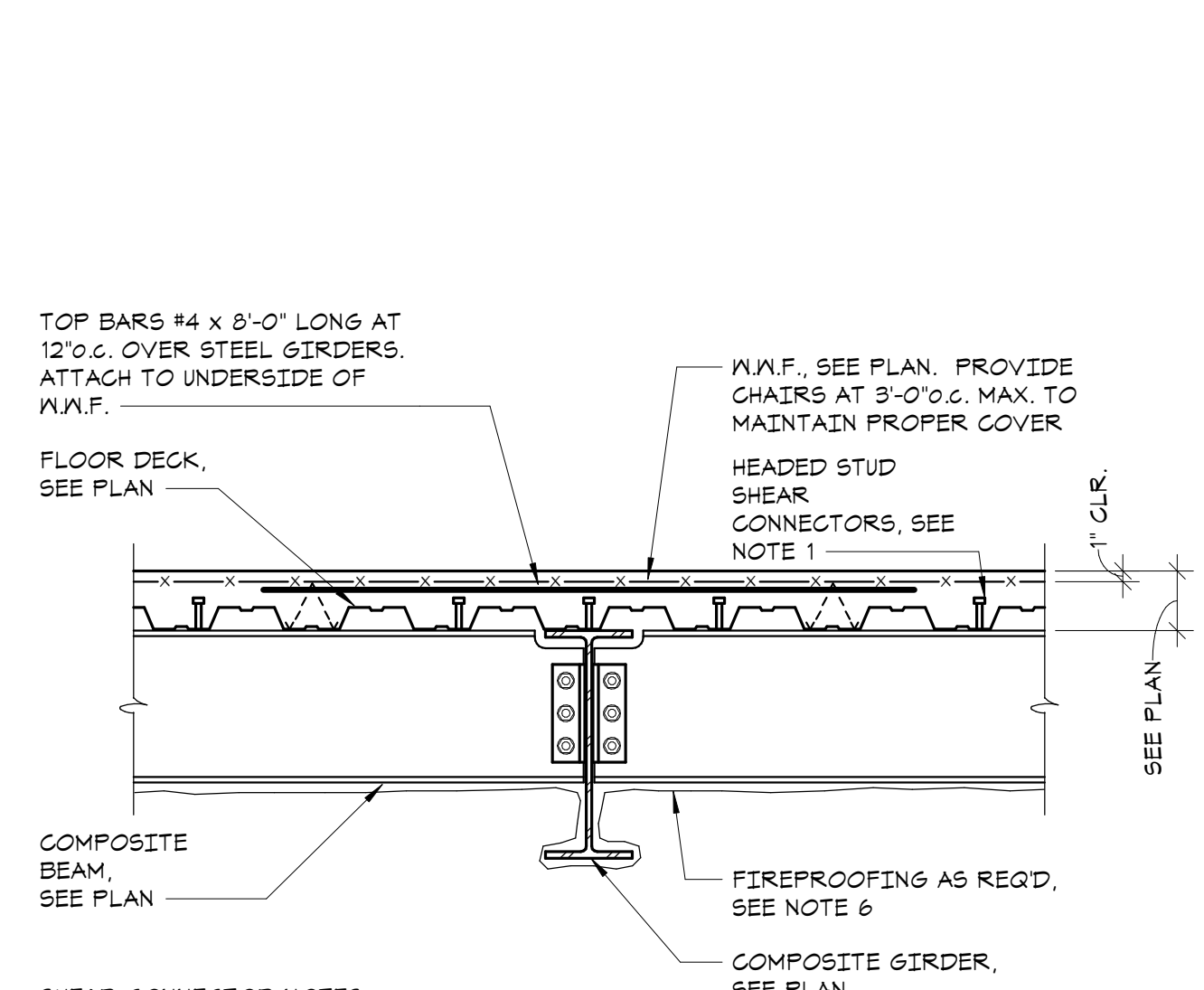
**SLAB ON GRADE
DETAILS**

Job No. 20029.00 Date 12/19/23

Scale AS NOTED Drawn / Checked Author Checker

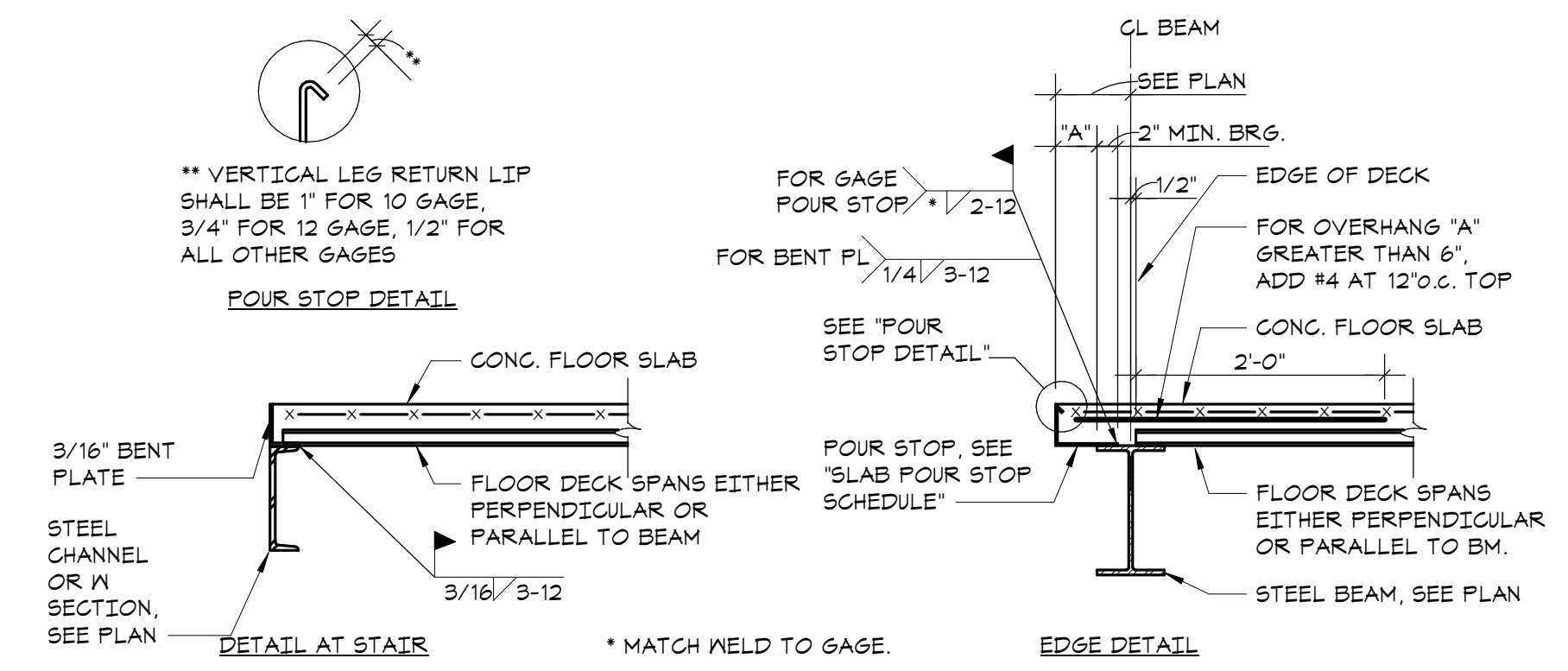
Sheet Number

S201



- SHEAR CONNECTOR NOTES:**
- HEADED STUD SHEAR CONNECTORS SHALL BE 3/4" DIAM. x LENGTH (AFTER INSTALLATION) AS FOLLOWS:
 - FOR 1 1/2" DECK, STUD LENGTH = 3"
 - FOR 2" DECK, STUD LENGTH = 3 1/2"
 - FOR 3" DECK, STUD LENGTH = 3"
 - SEE PLAN FOR NUMBER REQUIRED. BEAMS INDICATED (XX) REQUIRE XX NUMBER OF STUDS UNIFORMLY SPACED ALONG THE LENGTH OF THE BEAM.
 - BEAMS AND GIRDERS INDICATED (XX-X) REQUIRE XX NUMBER OF STUDS UNIFORMLY SPACED BETWEEN THE END OF THE BEAMS AND GIRDERS AND THE FIRST SUPPORTED BEAM AND X NUMBER OF STUDS BETWEEN THE TWO SUPPORTED BEAMS. SEE PLANS FOR ADDITIONAL SPACING REQUIREMENTS.
 - WHEN THE QUANTITY OF STUDS EXCEEDS THE QUANTITY OF AVAILABLE REBS OR THE REQUIRED MINIMUM SPACING, THEN THE EXCESS STUDS SHALL BE PLACED IN PAIRS STARTING AT EACH END OF THE BEAM.
 - MINIMUM STUD SPACING SHALL BE 4 1/2" ALONG THE LENGTH OF THE BEAM AND 3" ACROSS WIDTH OF THE BEAM FLANGES.
 - FLOOR CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FIRE RESISTANCE RATING AND THE U.L. DESIGN NO. AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

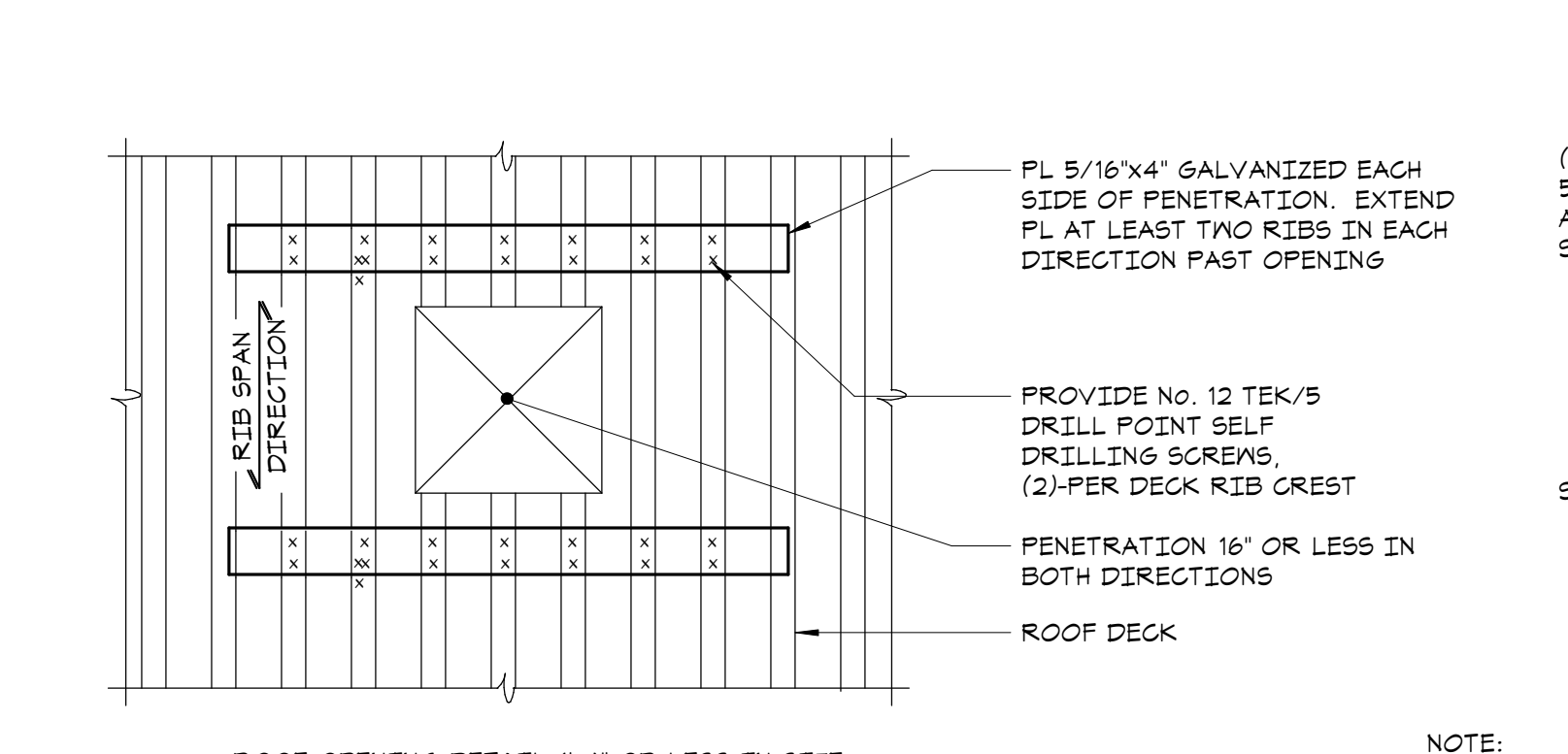
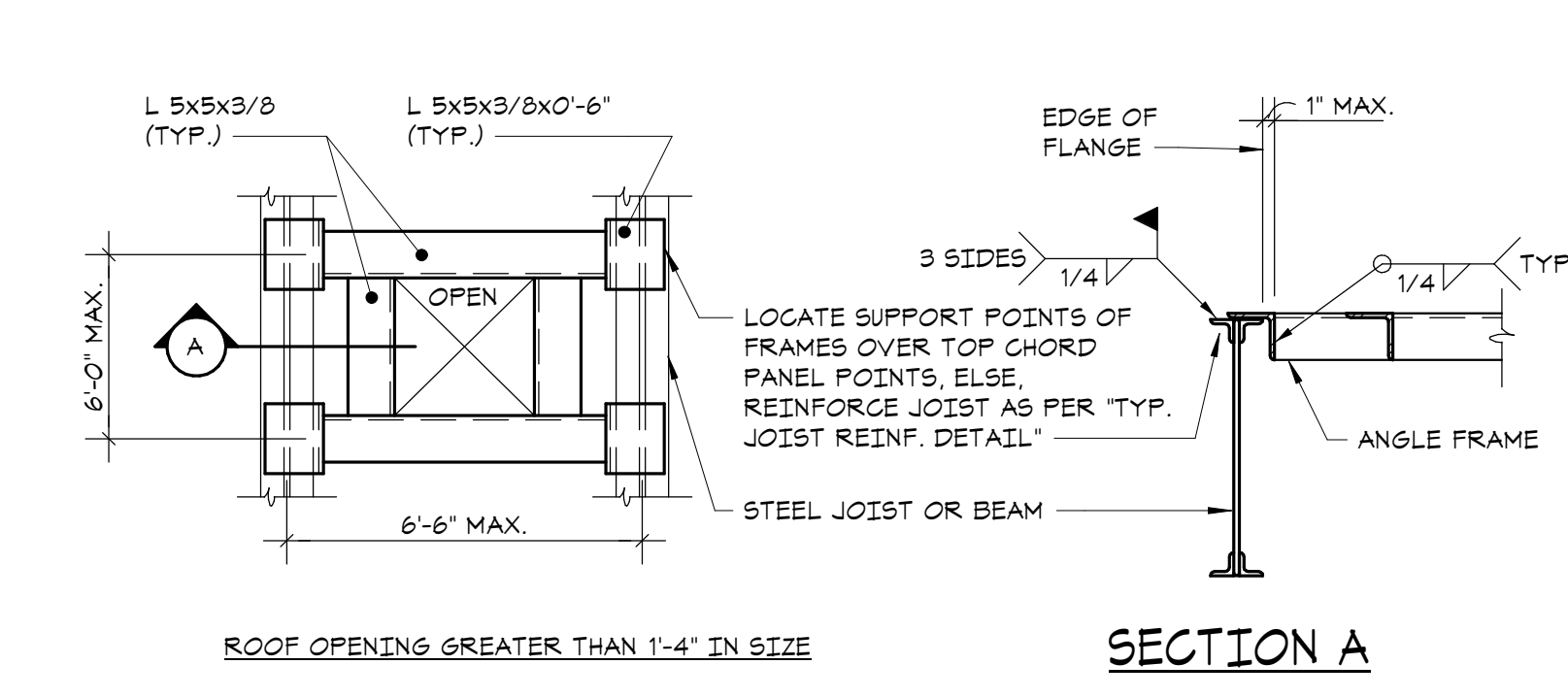
1. TYPICAL COMPOSITE BEAM FLOOR CONSTRUCTION DETAIL
NO SCALE



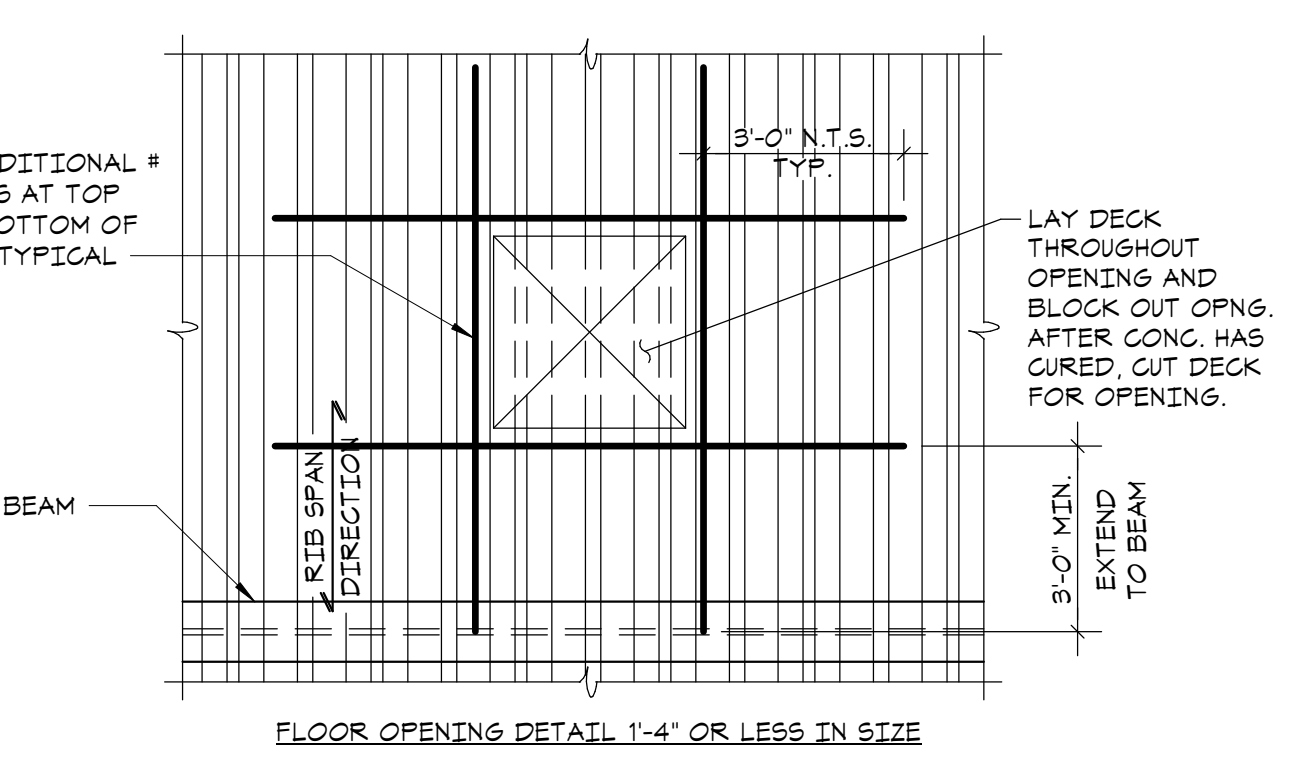
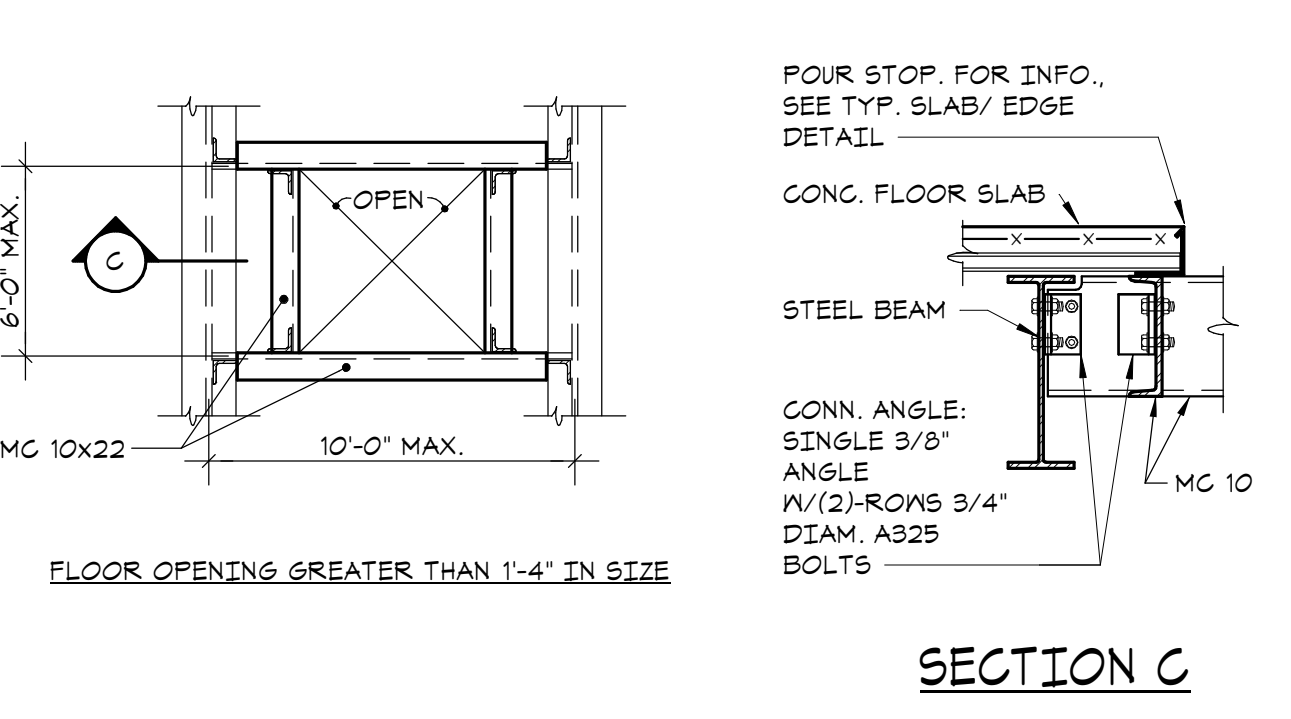
| SLAB THICKNESS | 'A' DIMENSION (OVERHANG) | POUR STOP |
|------------------|-------------------------------|------------------|
| 2 1/2" TO 5 1/2" | 0" UP TO 2" | 18 GA. |
| | GREATER THAN 2", UP TO 4" | 16 GA. |
| | GREATER THAN 4", UP TO 6" | 14 GA. |
| | GREATER THAN 6", UP TO 8" | 12 GA. |
| | GREATER THAN 8", UP TO 11" | 10 GA. |
| 5 3/4" TO 6 1/2" | 0" UP TO 2" | 5/16" BENT PLATE |
| | GREATER THAN 2", UP TO 4" | 14 GA. |
| | GREATER THAN 4", UP TO 3" | 12 GA. |
| | GREATER THAN 8", UP TO 10" | 10 GA. |
| | GREATER THAN 10", UP TO 1'-4" | 5/16" BENT PLATE |

NOTE: POUR STOPS INDICATED IN THIS DETAIL ARE TO BE USED UNLESS OTHERWISE DETAILED.

2. TYPICAL SLAB EDGE DETAILS
NO SCALE

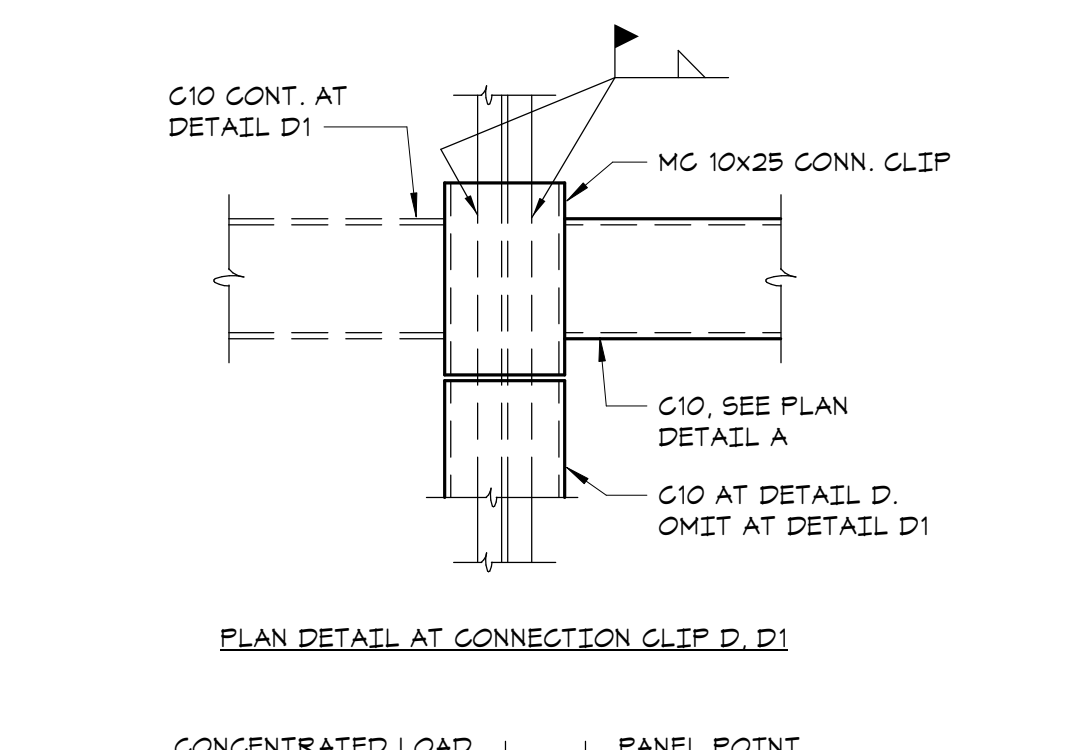
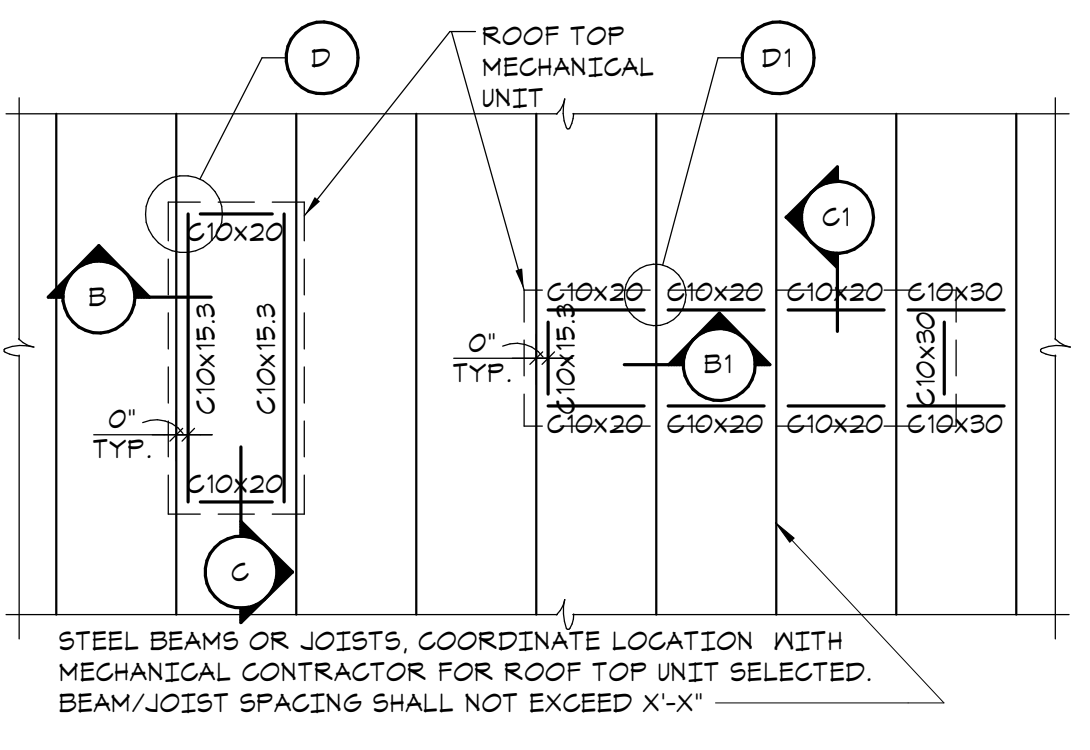


3. TYPICAL ROOF/FLOOR OPENING DETAIL
NO SCALE

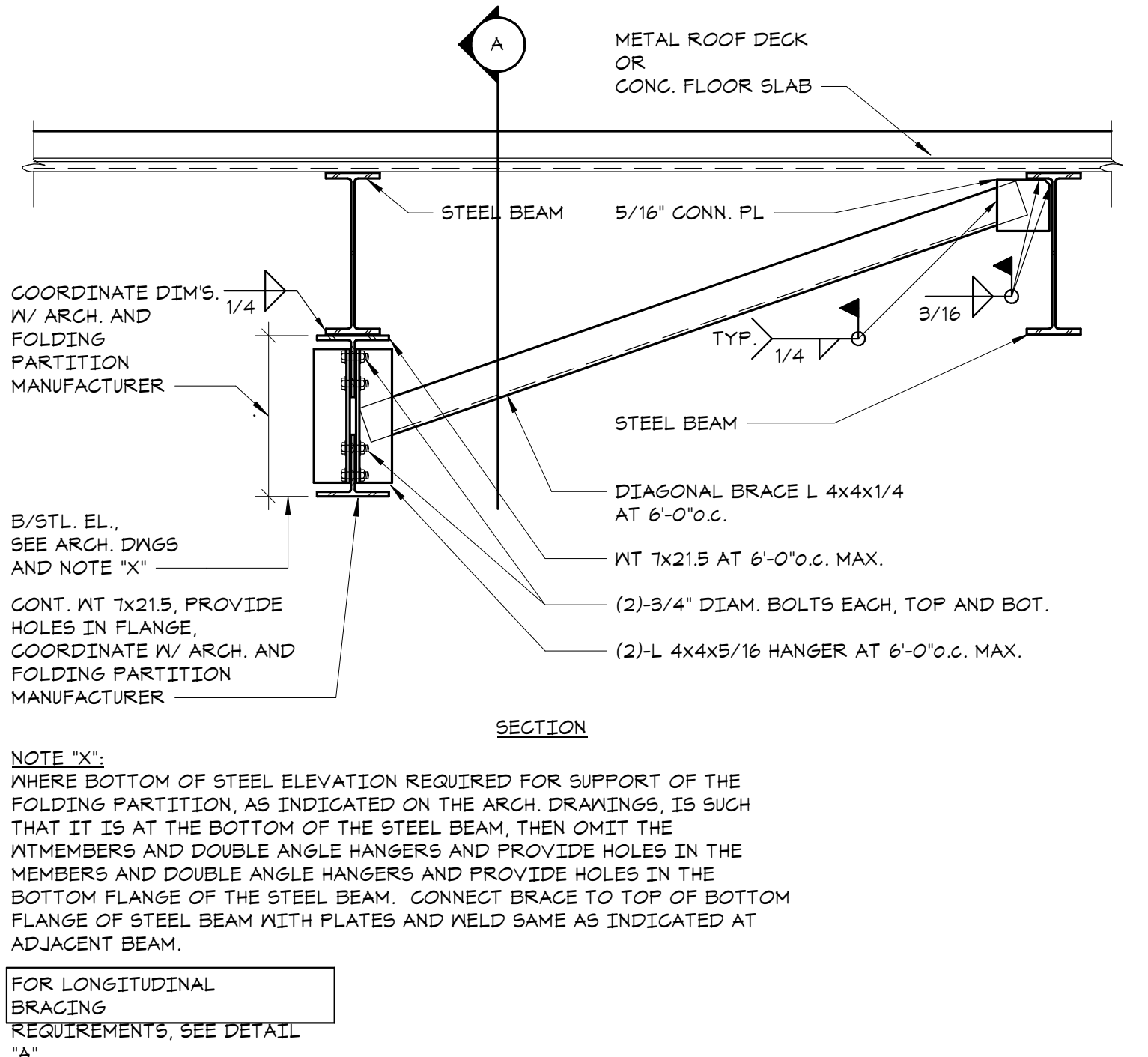


6. TYPICAL BENT PLATE DETAIL
NO SCALE

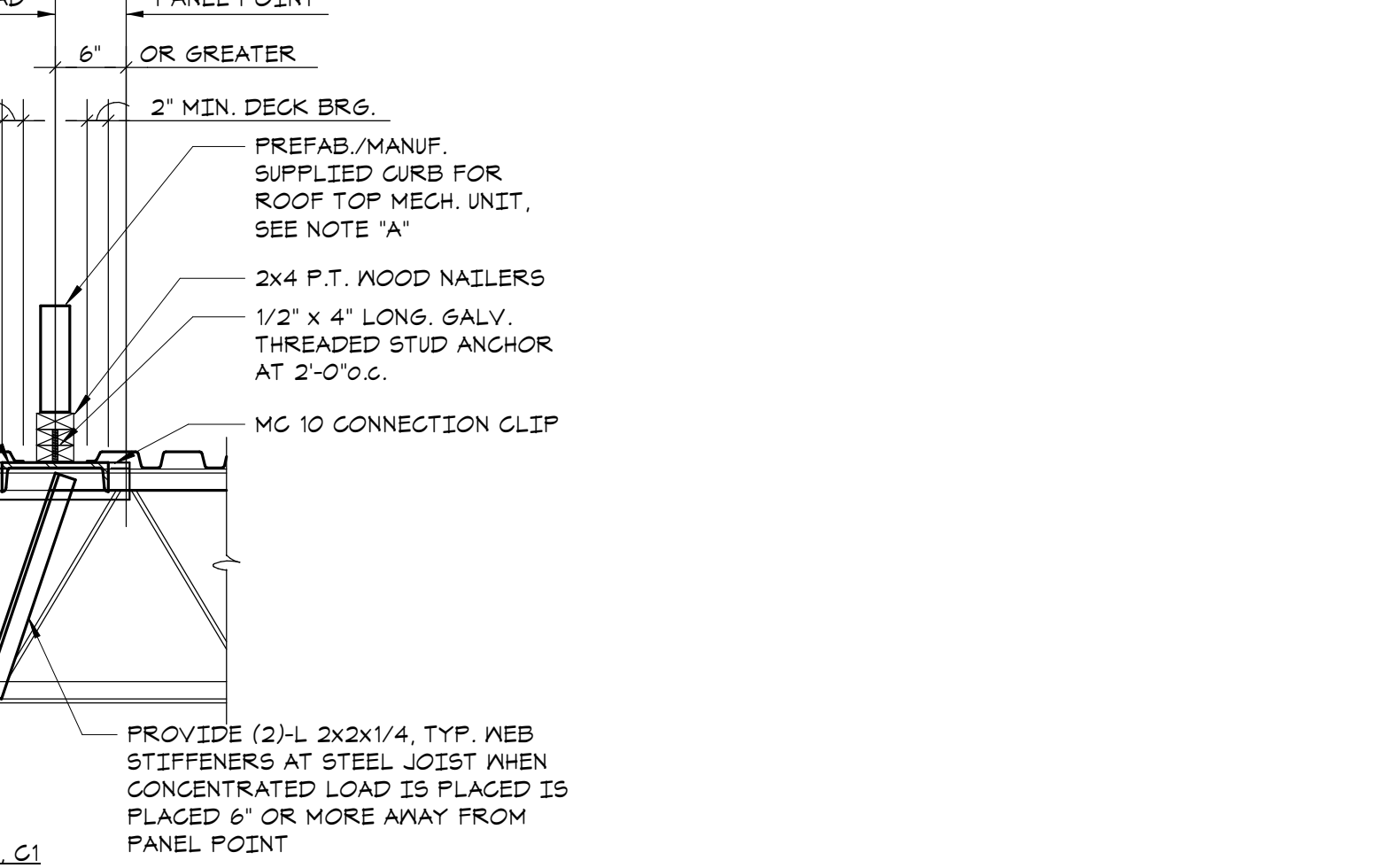
7. TYPICAL COLUMN INTERRUPTED BY GIRDER CONNECTION DETAIL
NO SCALE



4. TYPICAL ROOF TOP UNIT CURB DETAIL
NO SCALE

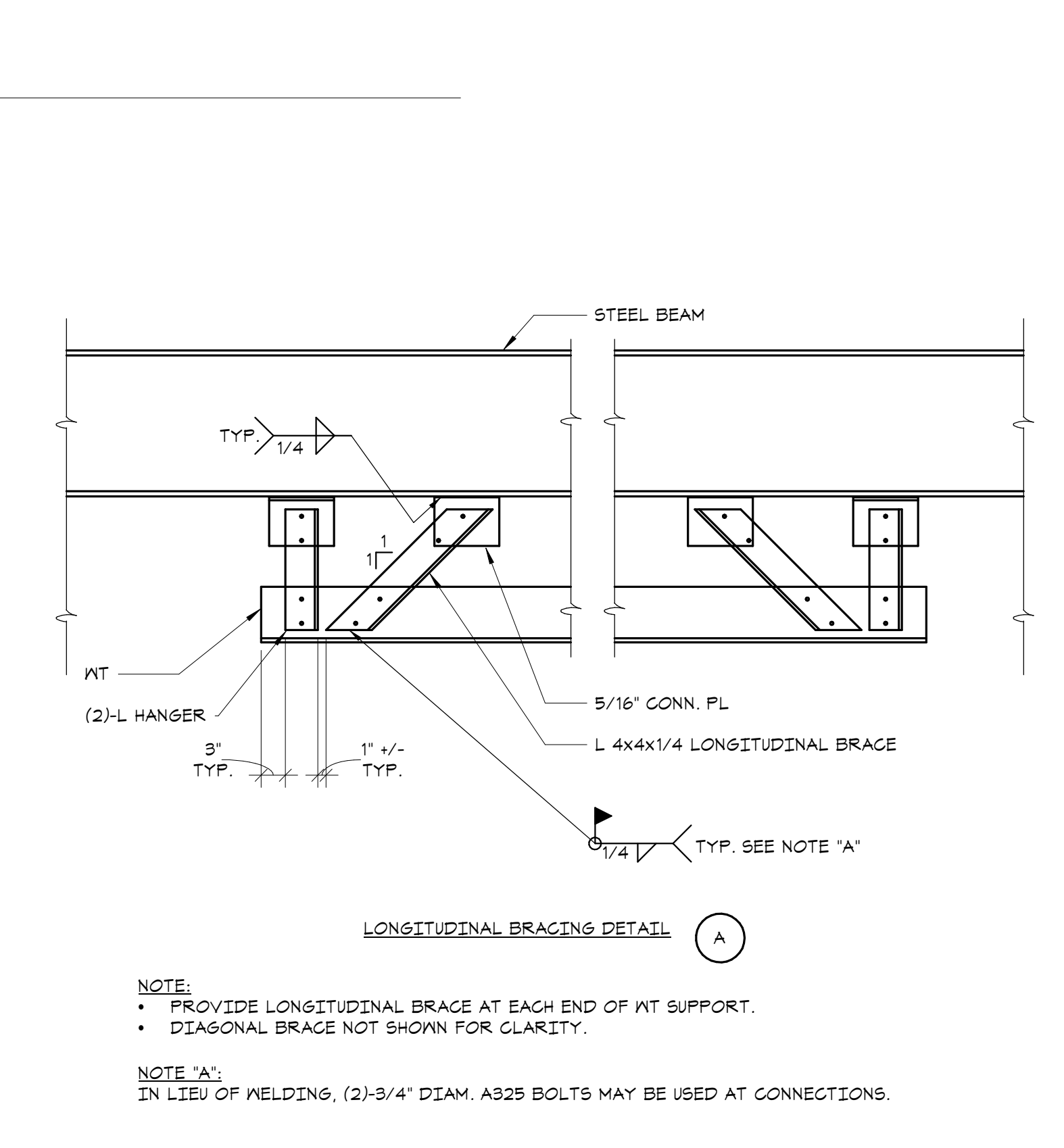


8. FOLDING PARTITION SUPPORT DETAIL
NO SCALE

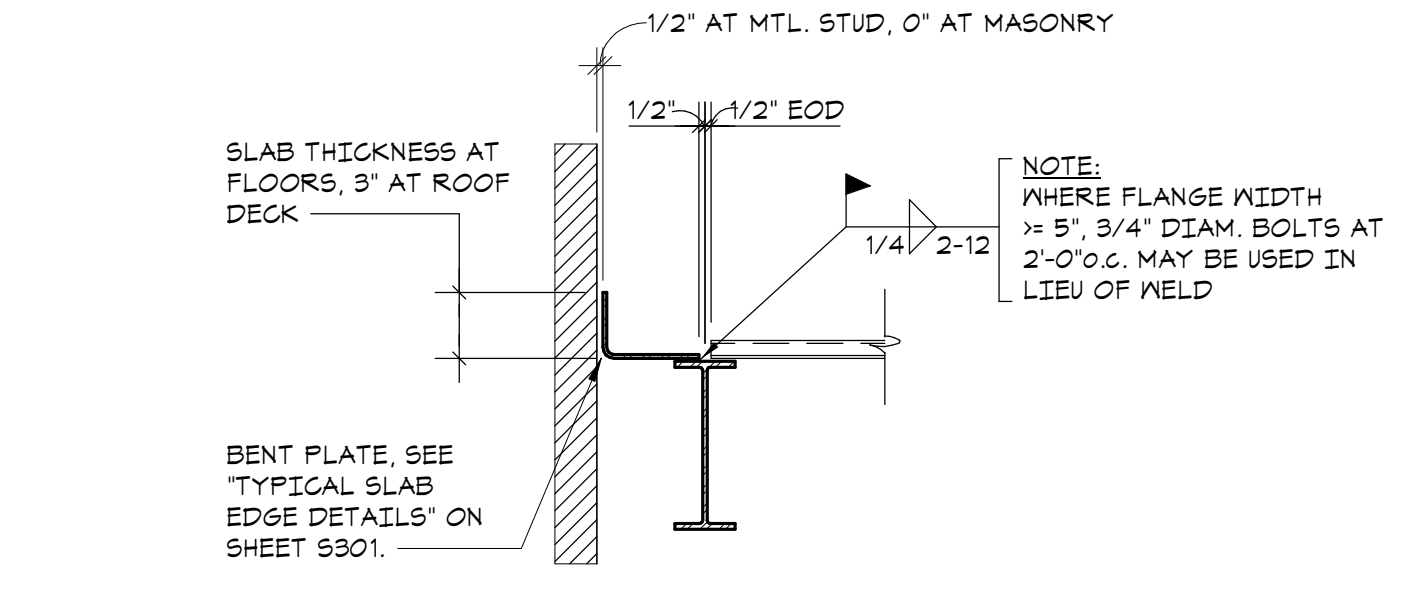


5. TYPICAL HUNG LINTEL/RELIEVING ANGLE DETAIL
NO SCALE

9. TYPICAL BEAM BEARING ON CONC. FDN WALL
NO SCALE



10. TYPICAL GIRDER SUPPORTING COLUMN CONNECTION DETAIL
NO SCALE



11. TYPICAL ROOF GUARD RAIL SECTION
NO SCALE

HARRISON RECREATION & COMMUNITY CENTER
New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528

KG+D listen imagine build
ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

The DiSalvo Engineering Group
Structural Engineers
93 Lake Avenue, Suite 201
Danbury, CT 06810
[203] 490-4140 | www.tddeg.com

CONSTRUCTION DOCUMENTS

Key Plan

OWNERSHIP, USE AND ALTERATION OF DOCUMENTS:

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Professional Seal

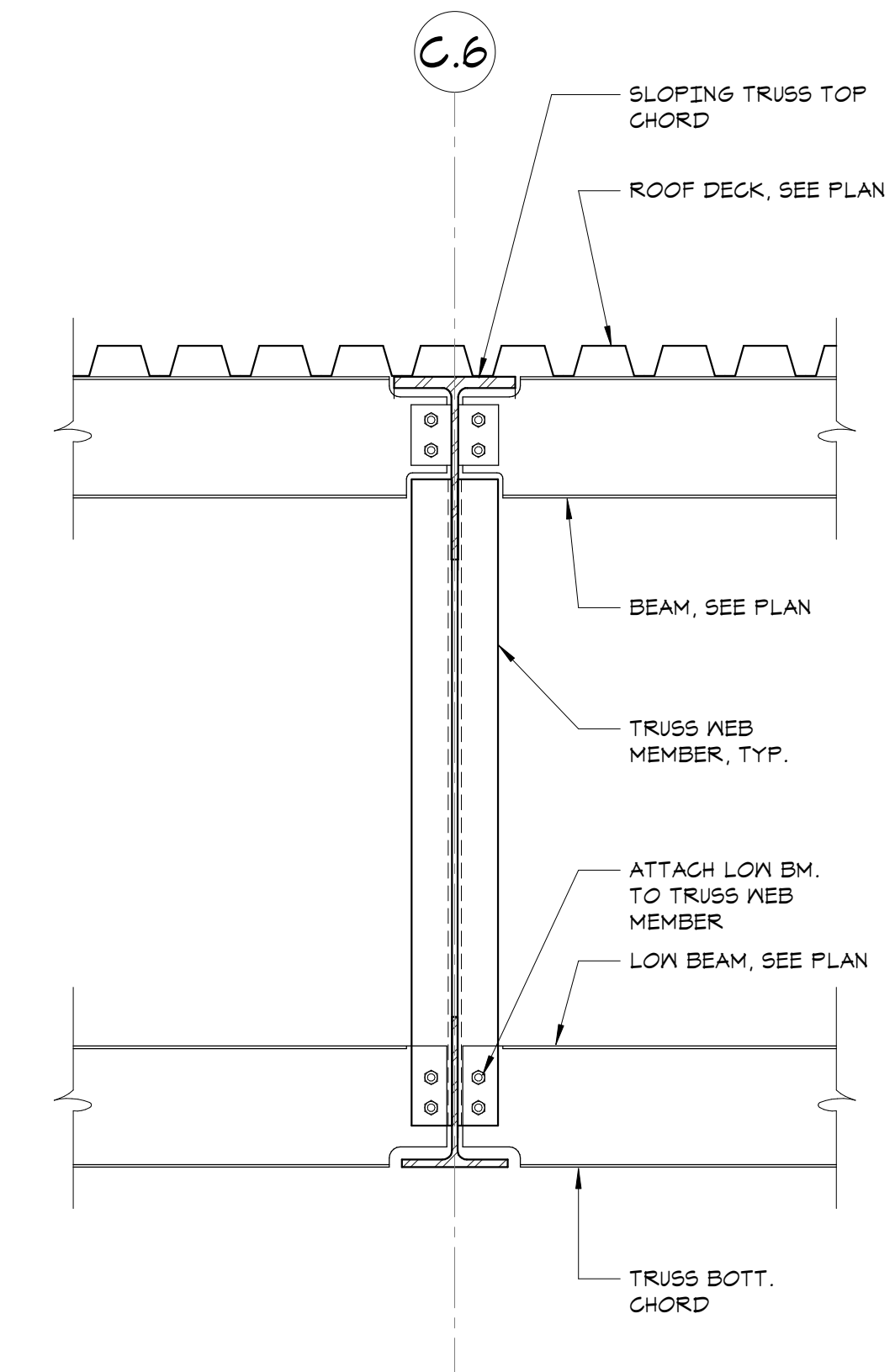
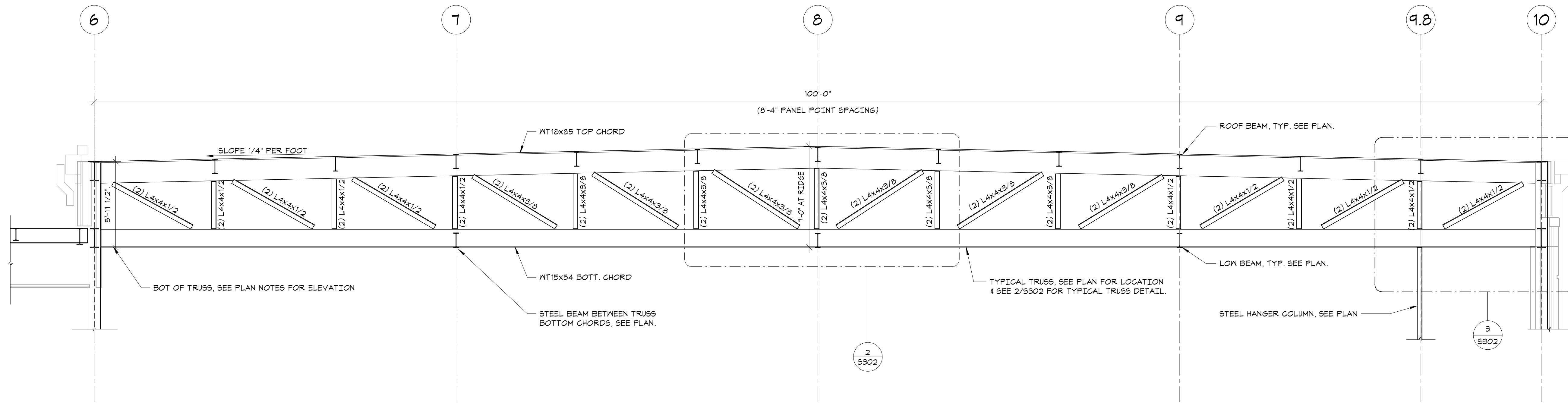
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| 2 | 2024-06-05 | ISSUED FOR BID |
| 1 | 2024-01-16 | ISSUED FOR PERMIT |

Sheet Title
STEEL FRAMING SCHEDULES AND TYPICAL DETAILS

| Job No. | Date |
|----------|------------|
| 20029.00 | 2020-06-01 |

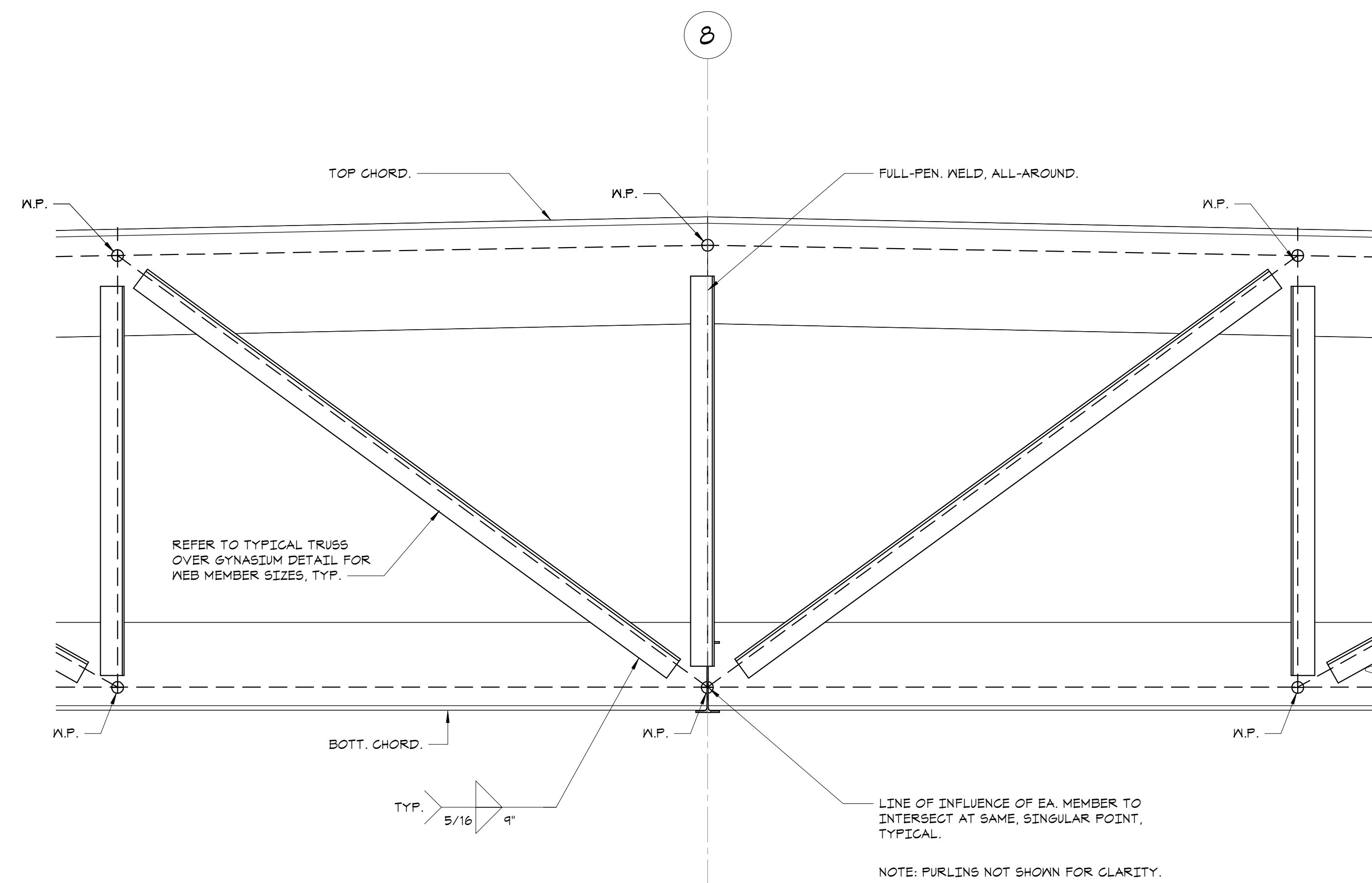
Scale AS NOTED Drawn / Checked JM / EM
Sheet Number

S301

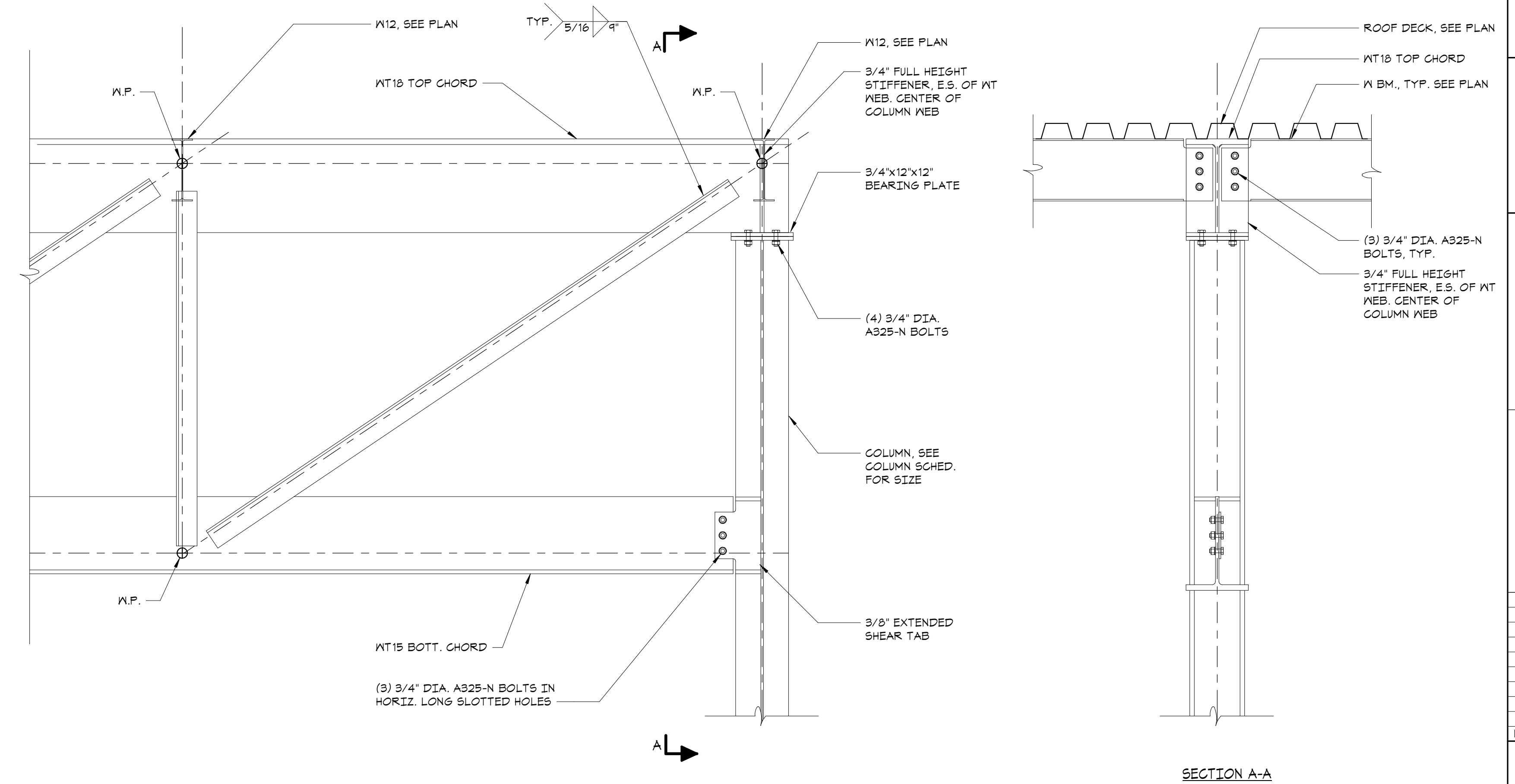


1 TYPICAL TRUSS OVER GYMNASIUM
NO SCALE

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



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



3 TYPICAL TRUSS BEARING DETAIL
NO SCALE

Key Plan

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Professional Seal

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| 2 | 2024-06-05 | ISSUED FOR BID |
| 1 | 2024-01-16 | ISSUED FOR PERMIT |
| No. | Date | Issue |

Sheet Title

**TRUSS
ELEVATION AND
DETAILS**

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| Job No. | 20029.00 | Date | 2020-06-01 |
| Scale | AS NOTED | Drawn / Checked | JM / EM |

Sheet Number

S302

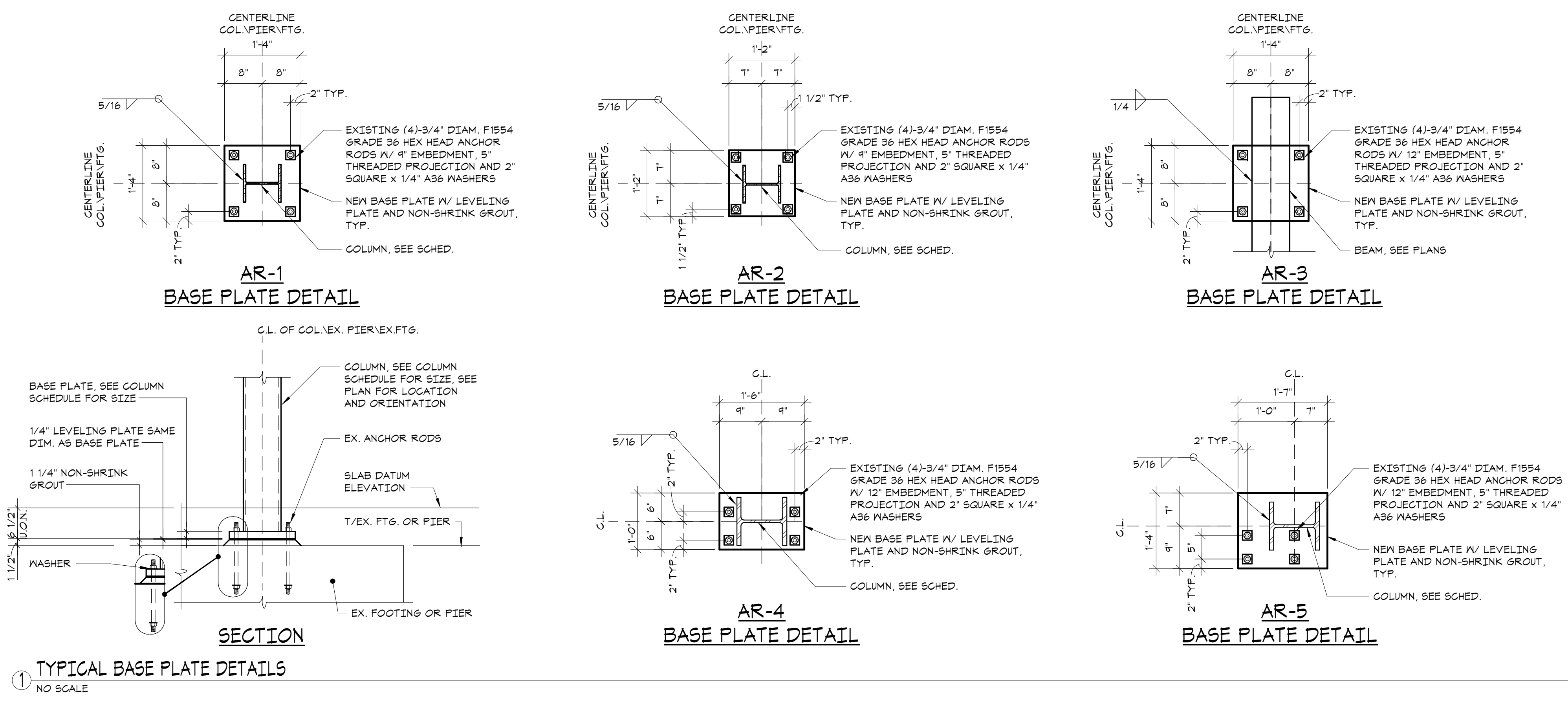
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|------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------|--------------------|--------------|--------------|------------------------------|--------------|--------------|--------------|--------------------|--------------------|--------------|--------------|--------------|--------------|------|
| 6YM T.O.S. | | | | | | | | | | | | | | | | | | | | | | | | | 6YM T.O.S. | | | | | | | | | | |
| 31'-2 1/2" SOUTH ROOF T.O.S. | | | | | | | | | | | | | | | | | | | | | | | | | 31'-2 1/2" SOUTH ROOF T.O.S. | | | | | | | | | | |
| 26'-T | | | | | | | | | | | | | | | | | | | | | | | | | 26'-T | | | | | | | | | | |
| 2ND FLOOR | | | | | | | | | | | | | | | | | | | | | | | | | 2ND FLOOR | | | | | | | | | | |
| 14'-0" | | | | | | | | | | | | | | | | | | | | | | | | | 14'-0" | | | | | | | | | | |
| 1ST FLOOR | | | | | | | | | | | | | | | | | | | | | | | | | 1ST FLOOR | | | | | | | | | | |
| 0' | | | | | | | | | | | | | | | | | | | | | | | | | 0' | | | | | | | | | | |
| PARKING | | | | | | | | | | | | | | | | | | | | | | | | | PARKING | | | | | | | | | | |
| -12'-0" | | | | | | | | | | | | | | | | | | | | | | | | | -12'-0" | | | | | | | | | | |
| Column Locations | A-4.8 | A-5.7 | A-6 | A-7 | A-8 | A-9 | A-10 | A-1-14 | A-1-3 | A-8-1 | A-8-14 | A-8-3 | B-11 | B-12 | B-14 | B-1-8 | B-1-6 | B-1-10 | B-8-1 | B-8-4 | B-8-5.1 | B-8-6 | B-8-10 | C-11 | C-12 | C-14 | C-8-1 | C-8-4 | C-8-5.1 | C-8-6 | C-8-10 | D-11 | D-12 | | |
| Base Plate | AR-1 | AR-1 | AR-5 | AR-4 | AR-4 | AR-4 | AR-5 | AR-1 | AR-1 | AR-2 | SEE DETAIL 10/5301 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-2 | SEE DETAIL 10/5301 | SEE DETAIL 10/5301 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-2 | SEE DETAIL 10/5301 | SEE DETAIL 10/5301 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 |
| Base Plate Size | 16'x3/4'x16' | 16'x3/4'x16' | 19'x3/4'x16' | 18'x3/4'x12' | 18'x3/4'x12' | 18'x3/4'x12' | 19'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 14'x3/4'x14' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 14'x3/4'x14' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 14'x3/4'x14' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--------------|--------------|--------------|--------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------|--------------------|--------------------|--------------|--------------|--------------|--------------------|--------------------|--------------|--------------|--------------|--------------|------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|------|
| 6YM T.O.S. | | | | | | | | | | | | | | | | | | | | | | | | | 6YM T.O.S. | | | | | | | | | | |
| 31'-2 1/2" SOUTH ROOF T.O.S. | | | | | | | | | | | | | | | | | | | | | | | | | 31'-2 1/2" SOUTH ROOF T.O.S. | | | | | | | | | | |
| 26'-T | | | | | | | | | | | | | | | | | | | | | | | | | 26'-T | | | | | | | | | | |
| 2ND FLOOR | | | | | | | | | | | | | | | | | | | | | | | | | 2ND FLOOR | | | | | | | | | | |
| 14'-0" | | | | | | | | | | | | | | | | | | | | | | | | | 14'-0" | | | | | | | | | | |
| 1ST FLOOR | | | | | | | | | | | | | | | | | | | | | | | | | 1ST FLOOR | | | | | | | | | | |
| 0' | | | | | | | | | | | | | | | | | | | | | | | | | 0' | | | | | | | | | | |
| PARKING | | | | | | | | | | | | | | | | | | | | | | | | | PARKING | | | | | | | | | | |
| -12'-0" | | | | | | | | | | | | | | | | | | | | | | | | | -12'-0" | | | | | | | | | | |
| Column Locations | D-14 | D-1-1 | D-1-3 | D-1-4 | D-1-5.7 | D-1-6 | D-1-10 | E-11 | E-12 | E-13 | E-1-1 | E-1-3 | E-1-4 | E-1-4.4 | E-1-5.7 | E-1-6 | E-1-10 | E-8-3 | E-8-4 | F-5.7 | F-6 | F-7 | F-8 | F-9 | F-10 | F-11 | F-12 | F-13 | G-5.9 | G-6.8 | G-7.8 | G-8.8 | G-8.9 | | |
| Base Plate | AR-1 | AR-2 | AR-1 | AR-1 | SEE DETAIL 10/5301 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-2 | AR-1 | SEE DETAIL 10/5301 | SEE DETAIL 10/5301 | SEE DETAIL 10/5301 | AR-1 | AR-1 | AR-1 | SEE DETAIL 10/5301 | SEE DETAIL 10/5301 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 | AR-1 |
| Base Plate Size | 16'x3/4'x16' | 14'x3/4'x14' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 14'x3/4'x14' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | | |

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|------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------|--------------|--------------------|--------------|--------------|--|------------------------------|
| 6YM T.O.S. | | | | | | | | | | | | | 6YM T.O.S. |
| 31'-2 1/2" SOUTH ROOF T.O.S. | | | | | | | | | | | | | 31'-2 1/2" SOUTH ROOF T.O.S. |
| 26'-T | | | | | | | | | | | | | 26'-T |
| 2ND FLOOR | | | | | | | | | | | | | 2ND FLOOR |
| 14'-0" | | | | | | | | | | | | | 14'-0" |
| 1ST FLOOR | | | | | | | | | | | | | 1ST FLOOR |
| 0' | | | | | | | | | | | | | 0' |
| PARKING | | | | | | | | | | | | | PARKING |
| -12'-0" | | | | | | | | | | | | | -12'-0" |
| Column Locations | G-11.1 | G-11.2 | G-12.2 | G-13 | H-2 | H-4 | R-1-4(-1'-6 1/4") | E-8-R3 | G-2(-1'-3/4")-R2 | R-1-R3 | R-2-R3 | | |
| Base Plate | AR-1 | AR-1 | AR-1 | AR-1 | AR-2 | AR-2 | SEE DETAIL 10/5301 | AR-2 | SEE DETAIL 10/5301 | AR-2 | AR-2 | | |
| Base Plate Size | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 16'x3/4'x16' | 14'x3/4'x12' | 14'x3/4'x14' | 14'x3/4'x14' | 14'x3/4'x14' | 14'x3/4'x14' | 14'x3/4'x14' | 14'x3/4'x14' | | |

NOTE: COLUMNS ARE TO BE PROVIDED AS ONE PIECE AS SHOWN, OR AT CONTRACTOR'S OPTION, SPLICED SECTIONS HAVING FULL PENETRATION WELDS (AT CONTRACTOR'S EXPENSE)

NO SCALE



Key Plan

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Professional Seal

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| No. | Date | Issue |
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| 1 | 2024-01-16 | ISSUED FOR PERMIT |

Sheet Title

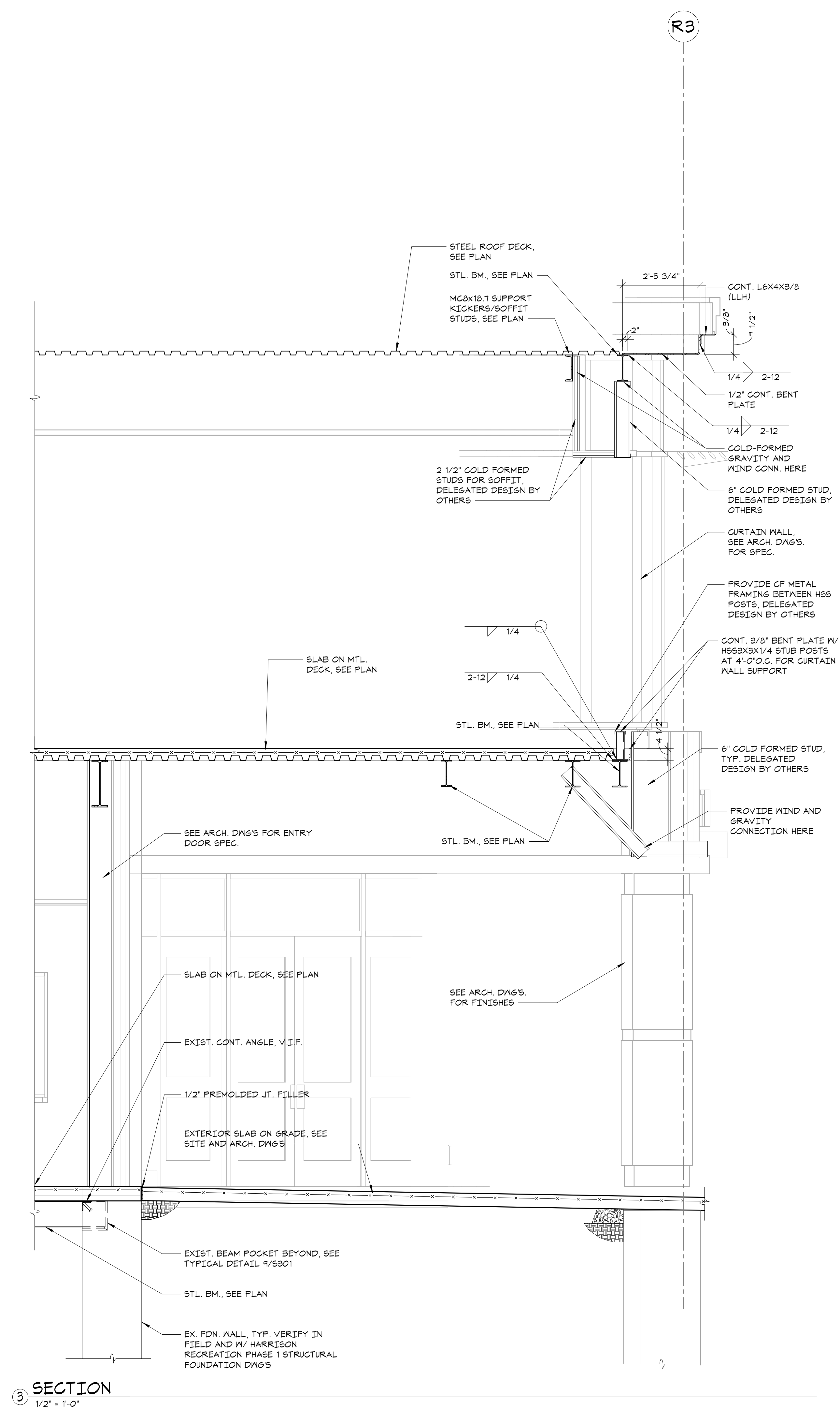
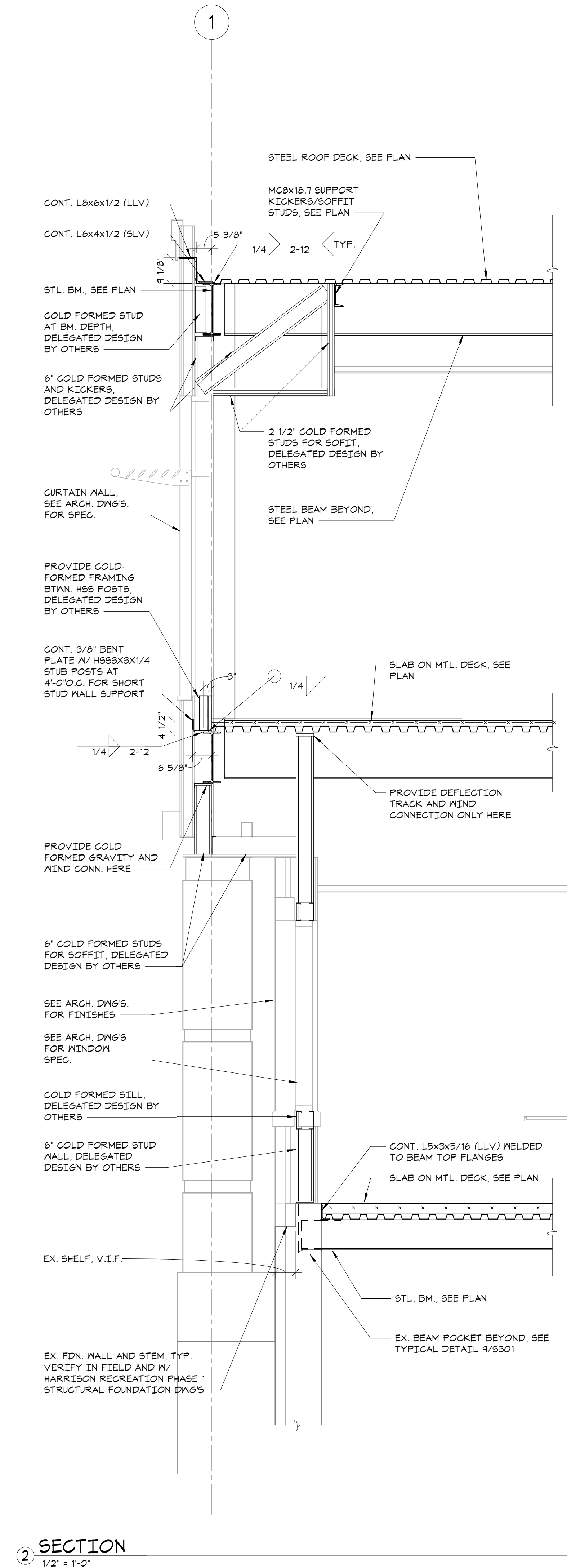
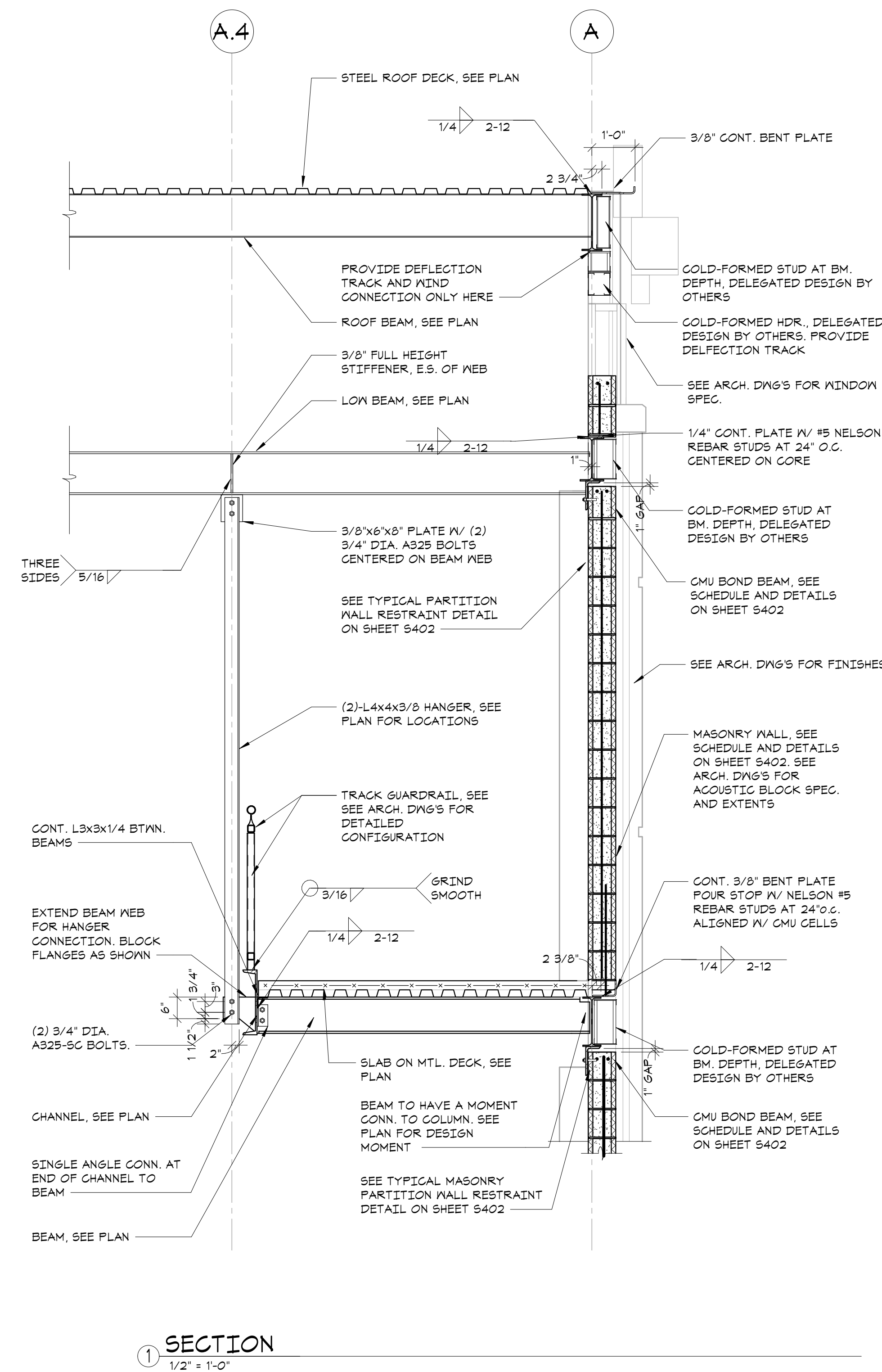
STEEL COLUMN SCHEDULE AND DETAILS

Job No. 20229.00 Date 2020-06-01

Scale AS NOTED Drawn / Checked JM / EM

Sheet Number

S303



Key Plan

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Professional Seal

| No. | Date | Issue |
|-----|------------|-------------------|
| 2 | 2024-06-05 | ISSUED FOR BID |
| 1 | 2024-01-16 | ISSUED FOR PERMIT |

Sheet Title

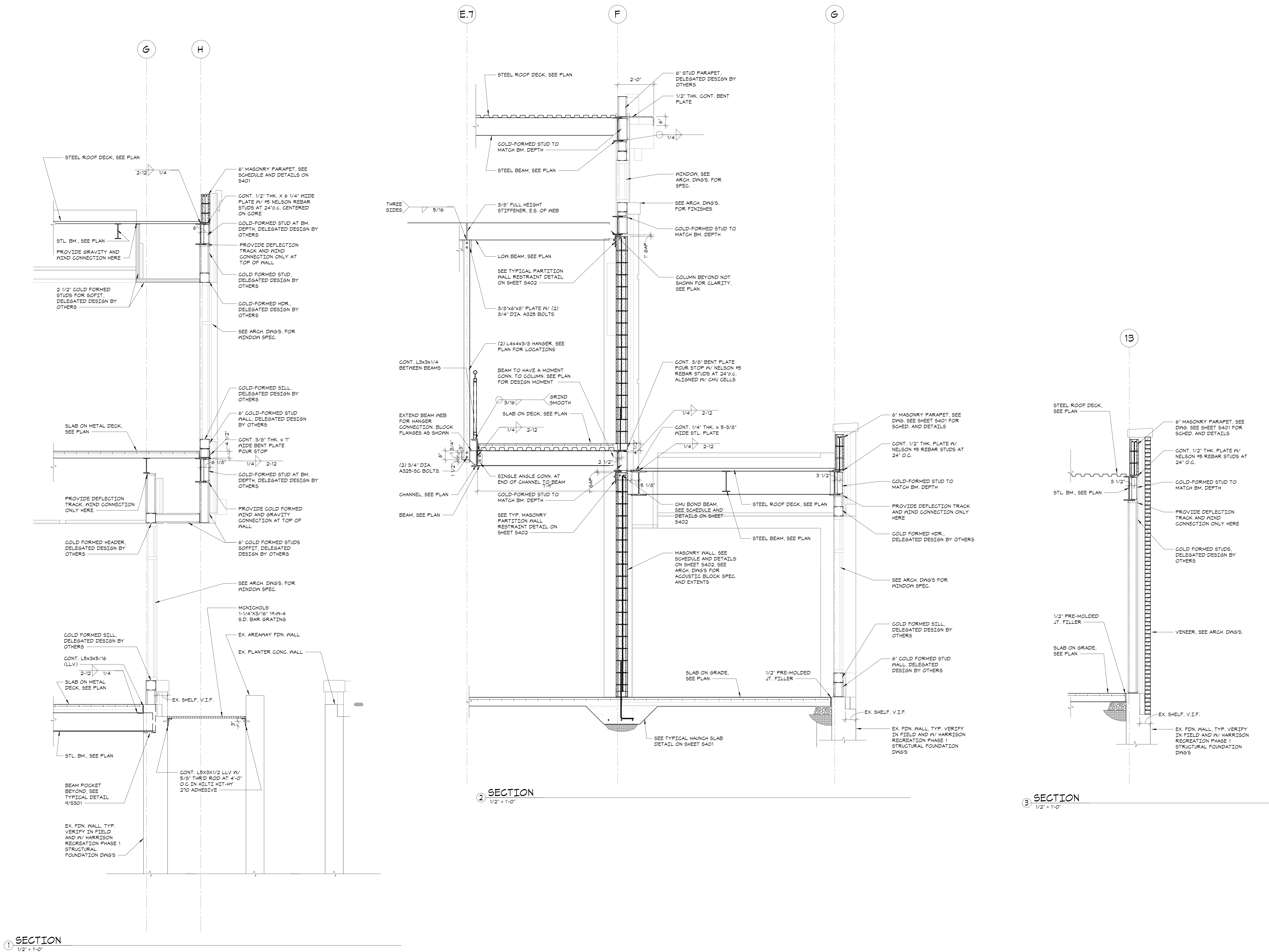
**FRAMING
SECTIONS**

| Job No. | Date |
|----------|------------|
| 20209.00 | 2020-06-01 |

| Scale | Drawn / Checked |
|----------|-----------------|
| AS NOTED | JM / EM |

Sheet Number

S311



Key Plan

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Professional Seal

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| 1 | 2024-01-16 | ISSUED FOR PERMIT |
| No. | Date | Issue |

**FRAMING
SECTIONS**

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| Job No. | 20029.00 | Date | 04/26/23 |
| Scale | AS NOTED | Drawn / Checked | JM / CGB |

Sheet Number
S312

**HARRISON
RECREATION &
COMMUNITY
CENTER**

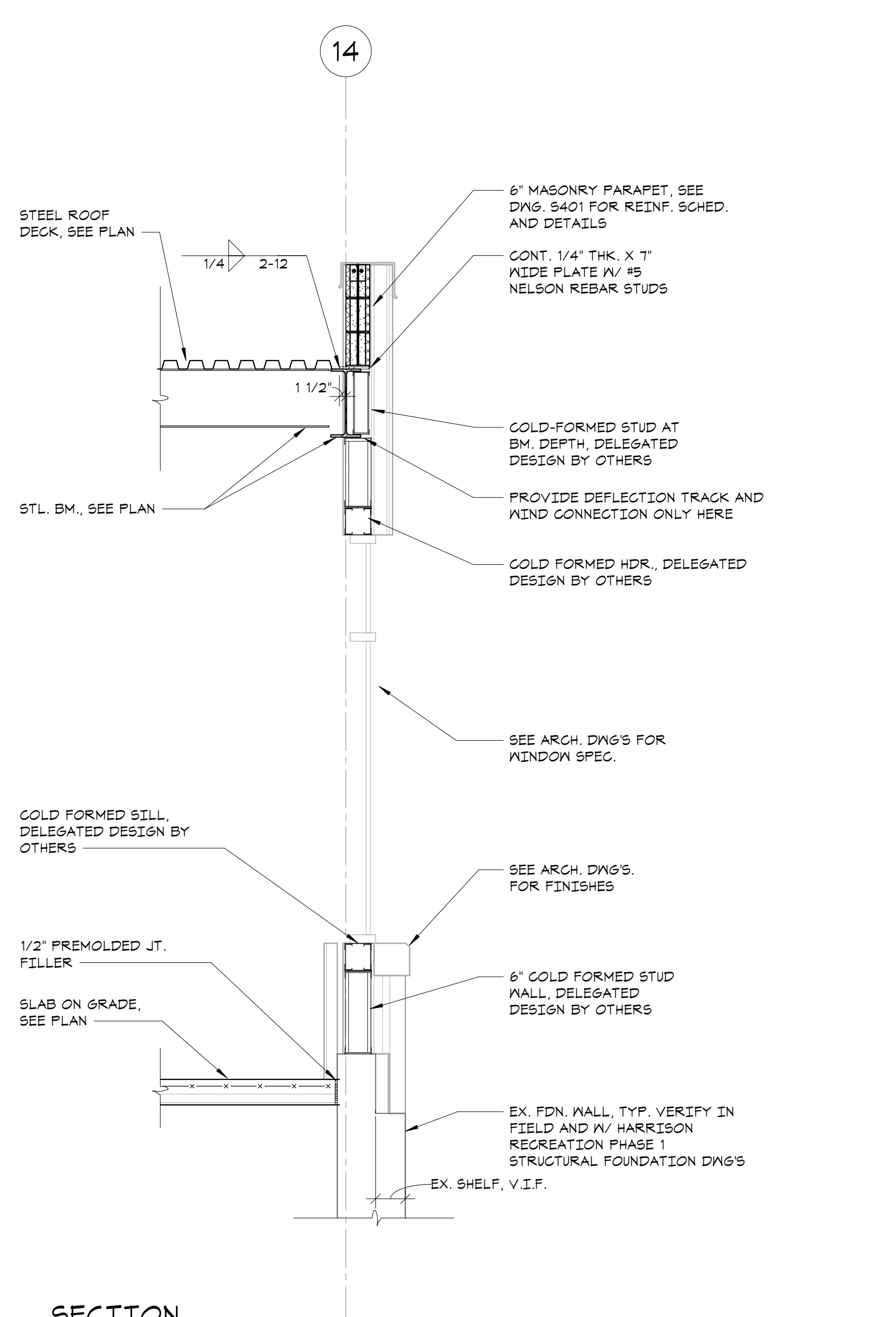
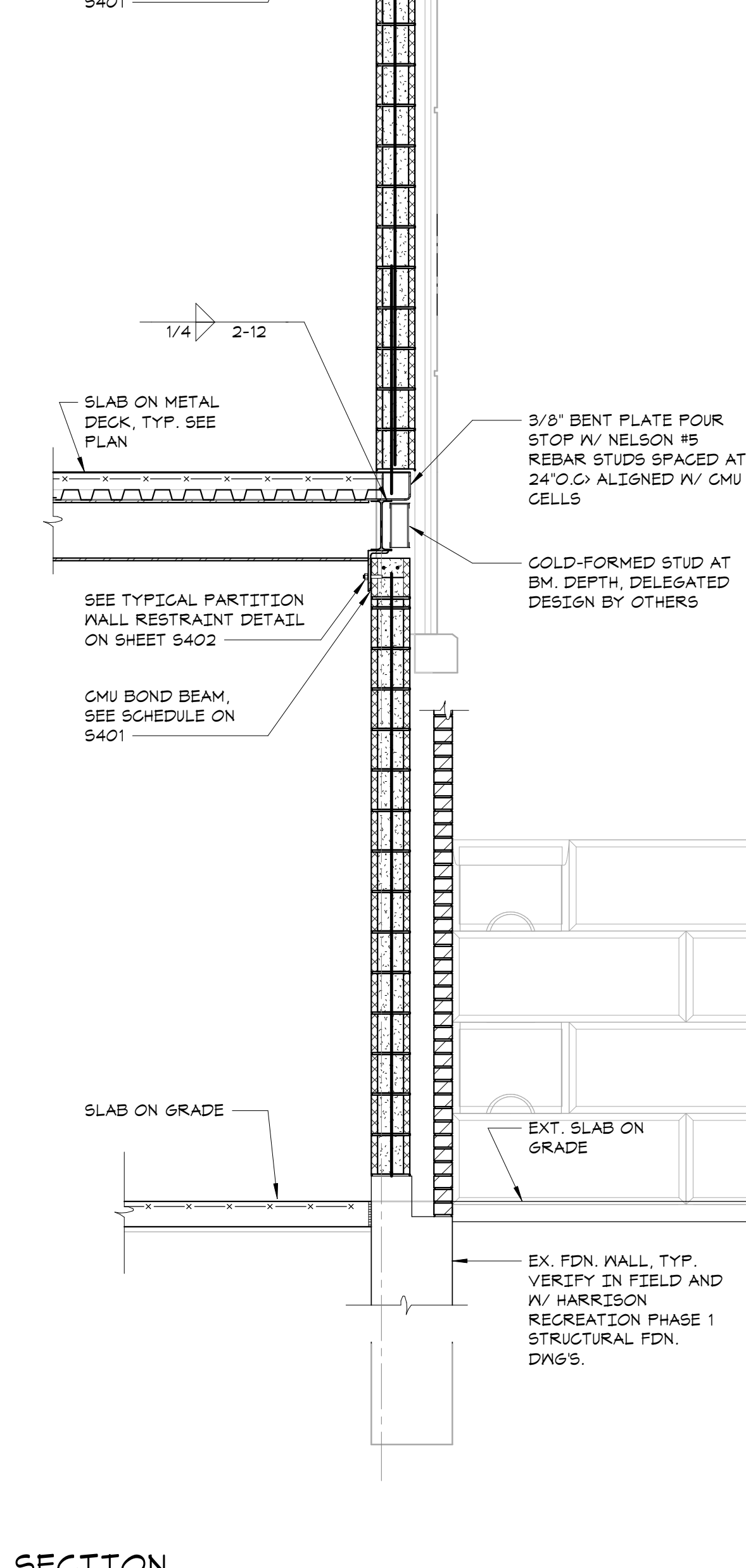
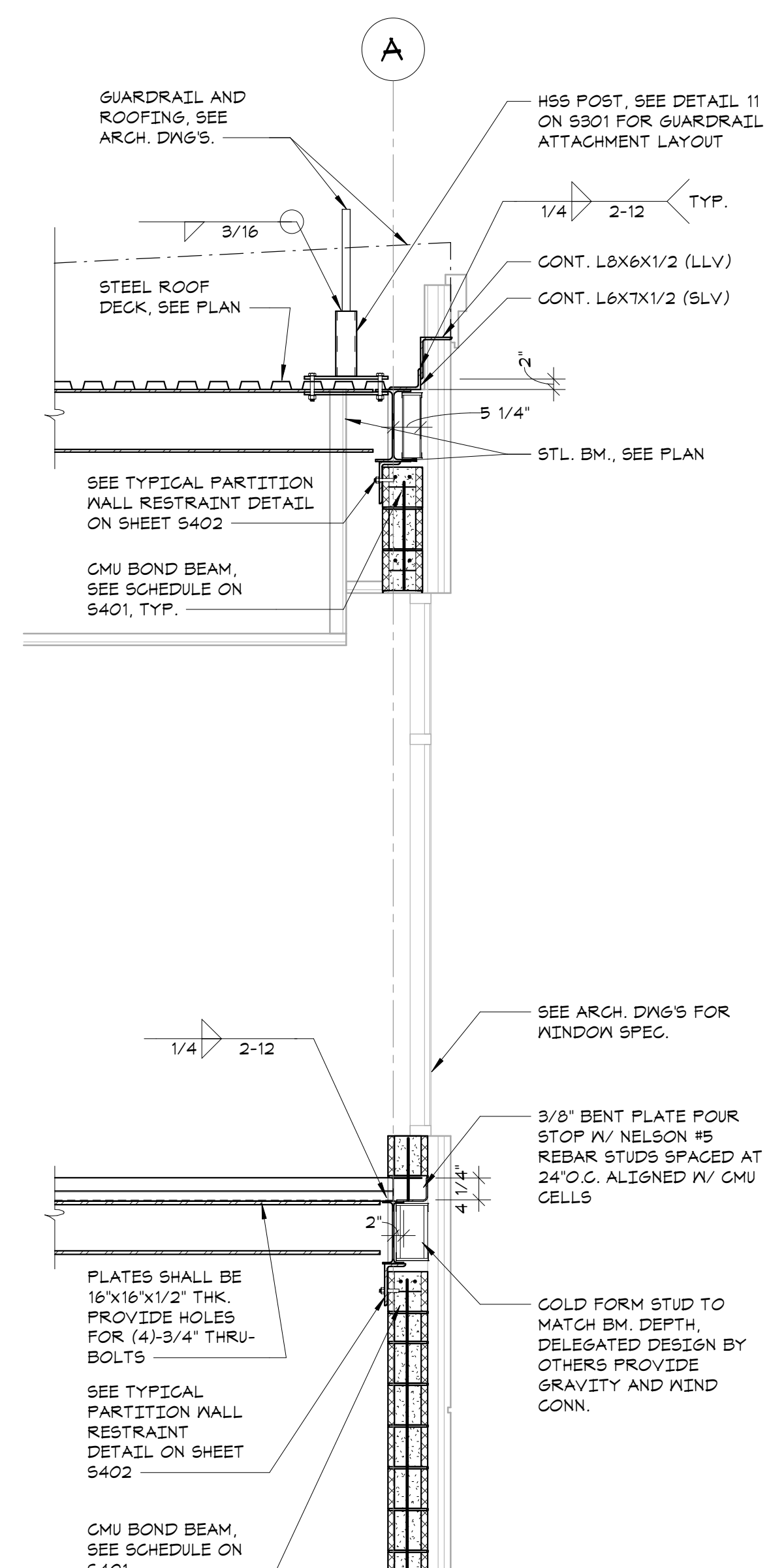
New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS



Key Plan

OWNERSHIP, USE AND ALTERATION OF DOCUMENTS:

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| No. | Date | Issue |
| 2 | 2024-06-05 | ISSUED FOR BID |
| 1 | 2024-01-16 | ISSUED FOR PERMIT |

Sheet Title

**FRAMING
SECTIONS**

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| Job No. | 20029.00 | Date | 12/20/23 |
| Scale | AS NOTED | Drawn / Checked | Author / Checker |

Sheet Number

S313

Key Plan

OWNERSHIP, USE AND ALTERATION OF DOCUMENTS:

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| 2 | 2024-06-05 | ISSUED FOR BID |
| 1 | 2024-01-16 | ISSUED FOR PERMIT |
| No. | Date | Issue |

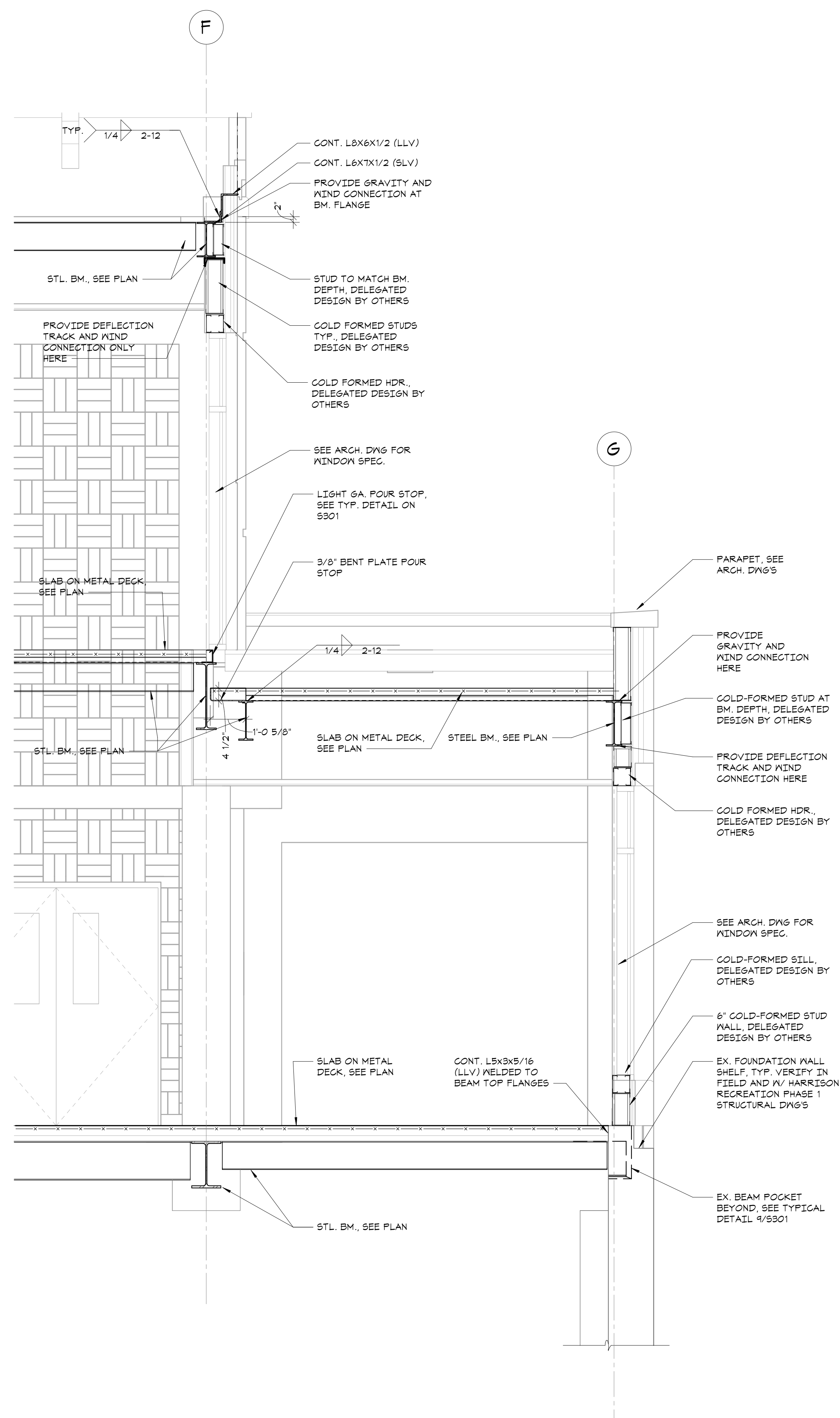
Sheet Title

**FRAMING
SECTIONS**

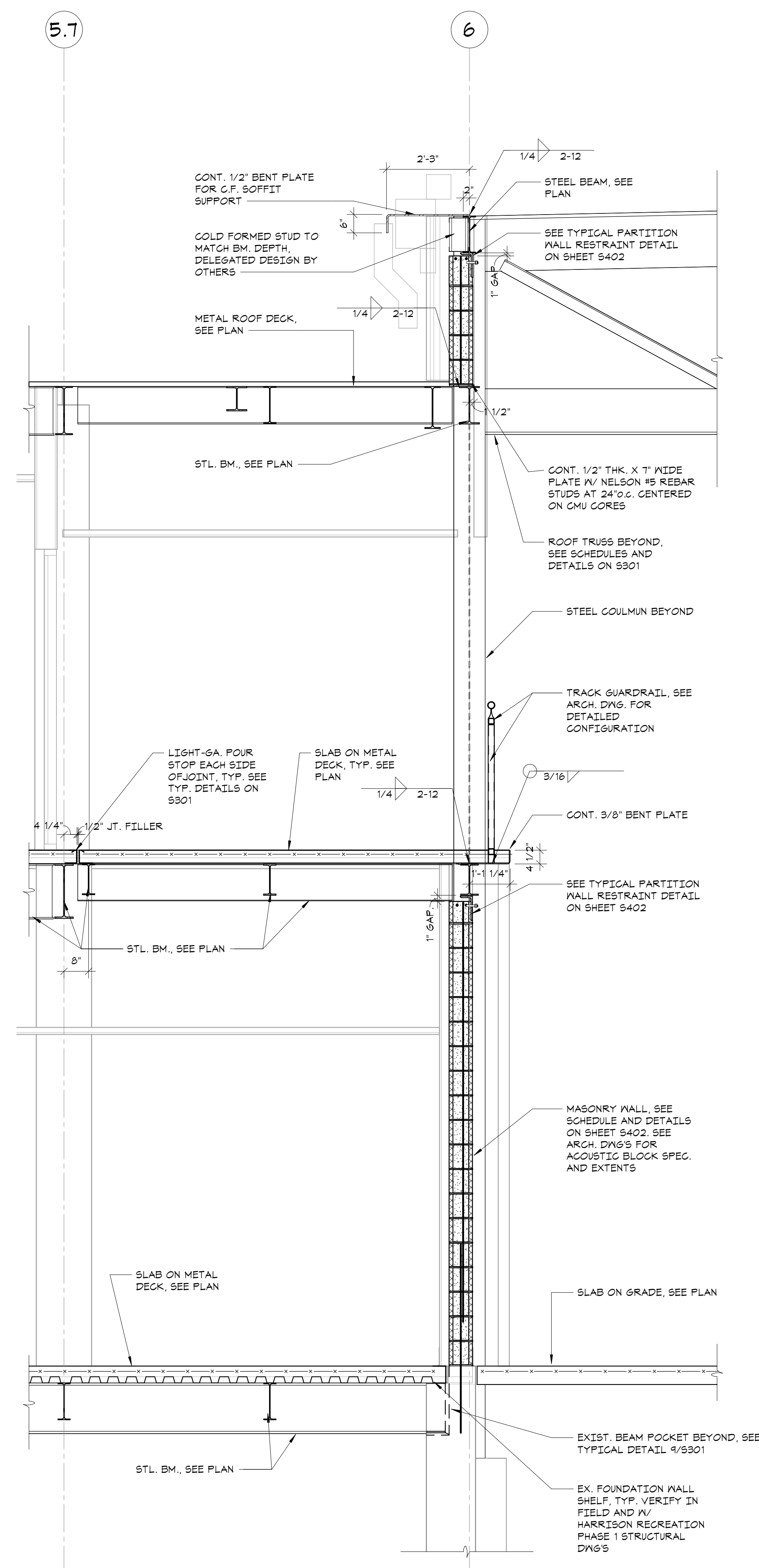
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| Job No. | 20029.00 | Date | 12/20/23 |
| Scale | AS NOTED | Drawn / Checked | Author / Checker |

Sheet Number

S314



SECTION 1
1/2" = 1'-0"



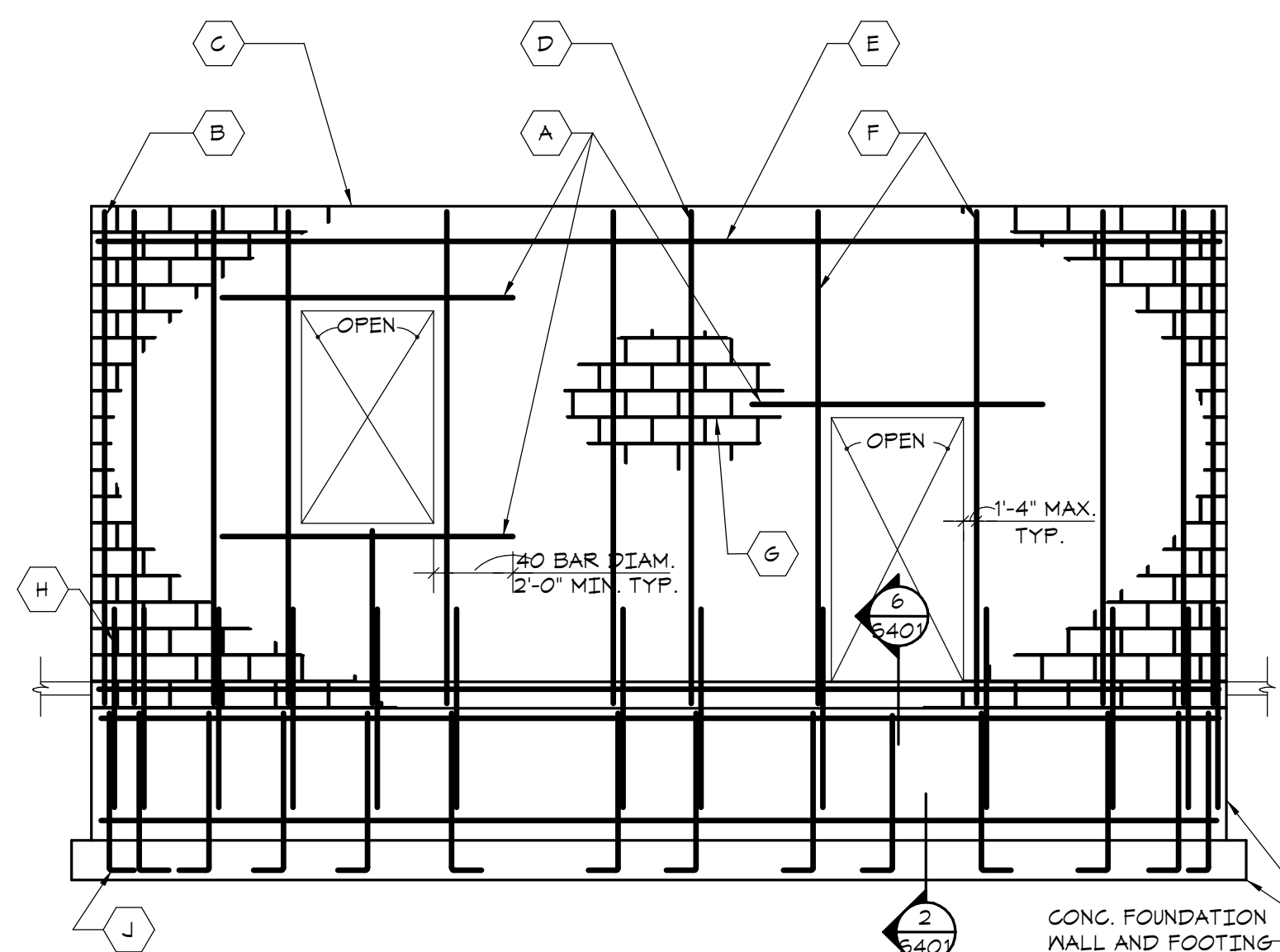
SECTION 2
1/2" = 1'-0"

| KEYNOTES | |
|----------|---|
| (A) | (2)#5 HORIZ. REINF. GROUTED SOLID IN BOND BEAM/COURSE TYP. ABOVE AND BELOW ALL OPENINGS. FOR HORIZONTAL REINFORCING IN MASONRY LINTELS SEE "TYPICAL MASONRY LINTEL IN NON-LOAD BEARING WALL DETAIL" |
| (B) | VERT. FULL HEIGHT REINF. IN SOLID GROUT, TYP. AT WALL ENDS, CORNERS, AND EACH SIDE OF O.G.S. SEE REINFORCEMENT SCHEDULE |
| (C) | CMU WALL. FOR SIZE, SEE PLANS AND REINFORCEMENT SCHEDULE. |
| (D) | TYP. VERTICAL REINF. SEE REINFORCEMENT SCHEDULE (U.O.N. BY SECTION). FILL CELLS CONTAINING REINF. SOLID W/ GROUT. |
| (E) | (2)#5 HORIZ. REINF. AT TOP OF WALL GROUTED SOLID IN BOND BEAM COURSE. PLACE REINF. ONE COURSE LOWER WHERE WALL ABUTS FLOOR ABOVE. |
| (F) | VERT. FULL HEIGHT REINF. IN SOLID GROUT, TYP. AT BOTH SIDES OF ALL WALL OPENINGS, SEE REINFORCEMENT SCHEDULE. |
| (G) | HORIZ. JOINT REINFORCING. SEE GENERAL NOTES. |
| (H) | PROVIDE REINFORCING DONNELS BETWEEN FDN. AND MASONRY WALL EQUAL TO SIZE AND SPACING OF MASONRY VERT. WALL REINFORCING (MAX. SPACING = 4'-0" O.C.). REINFORCING DONNELS SHALL EXTEND INTO MASONRY WALLS AND SHALL BE LAPPED 48 BAR DIAM. |
| (J) | PROVIDE REINFORCING DONNELS BETWEEN FTG. AND FDN. WALL EQUAL TO SIZE AND SPACING OF MASONRY VERT. WALL REINFORCING (MAX. SPACING = 4'-0" O.C.). REINFORCING DONNELS SHALL EXTEND INTO MASONRY WALLS AND SHALL BE LAPPED 48 BAR DIAM. |

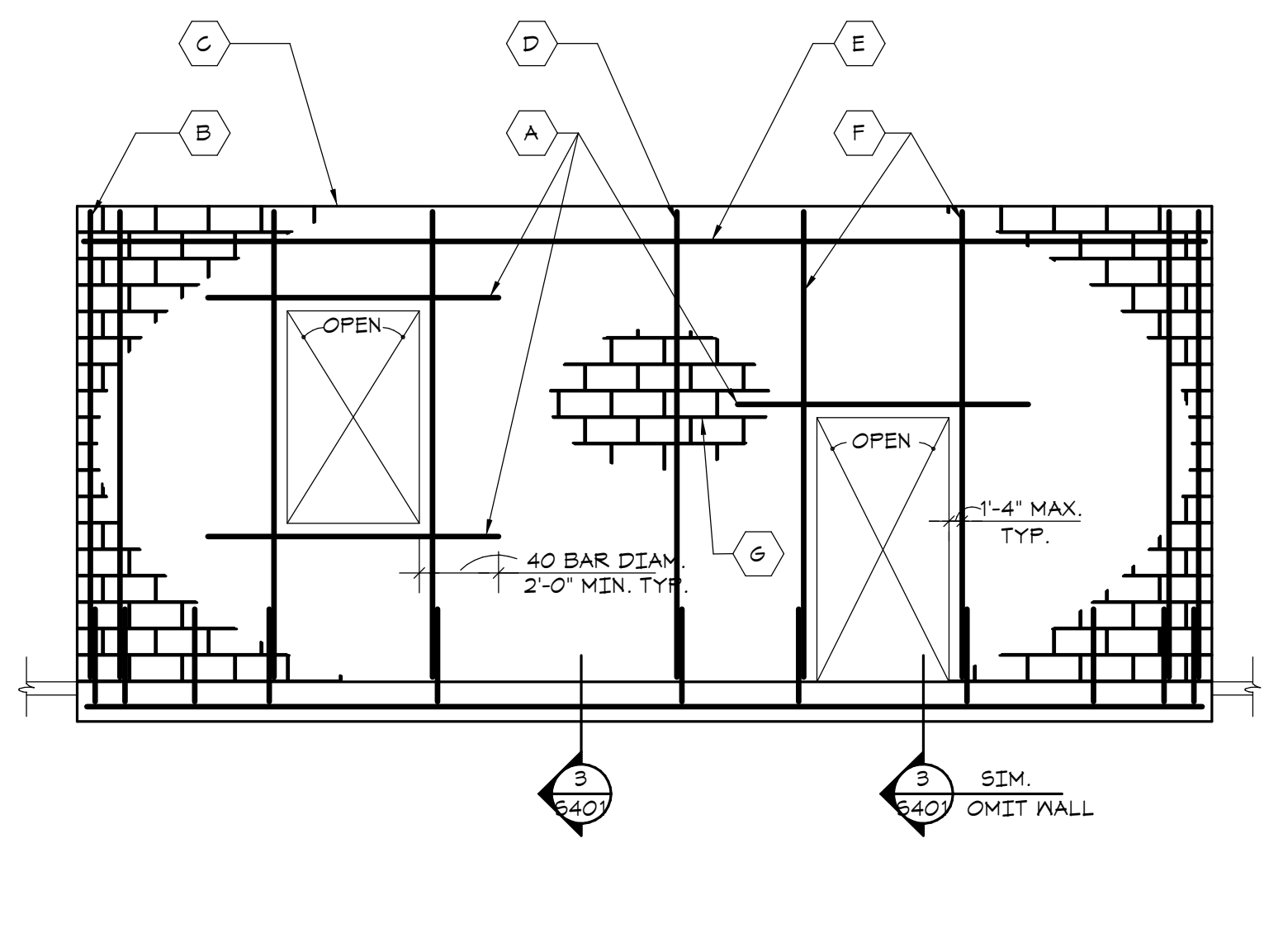
| REINFORCEMENT SCHEDULE | | |
|---|-----------|------------------------|
| MALL DESCRIPTION | MALL TYPE | VERTICAL REINFORCEMENT |
| 8' CMU SHAFT WALLS, AND EXTERIOR WALLS (ENCL. ACOUSTIC CMU) | A | (D) #5 AT 32" O.C. |
| | | (B) (3)#5 |
| | | (F) (1)#5 |
| 8' CMU PARTITIONS | B | (D) #4 AT 48" O.C. |
| | | (B) (1)#4 |
| | | (F) (1)#4 |

NOTE: ALL 8' CMU PARTITIONS MUST BE BRACED AT EACH FLOOR LEVEL.

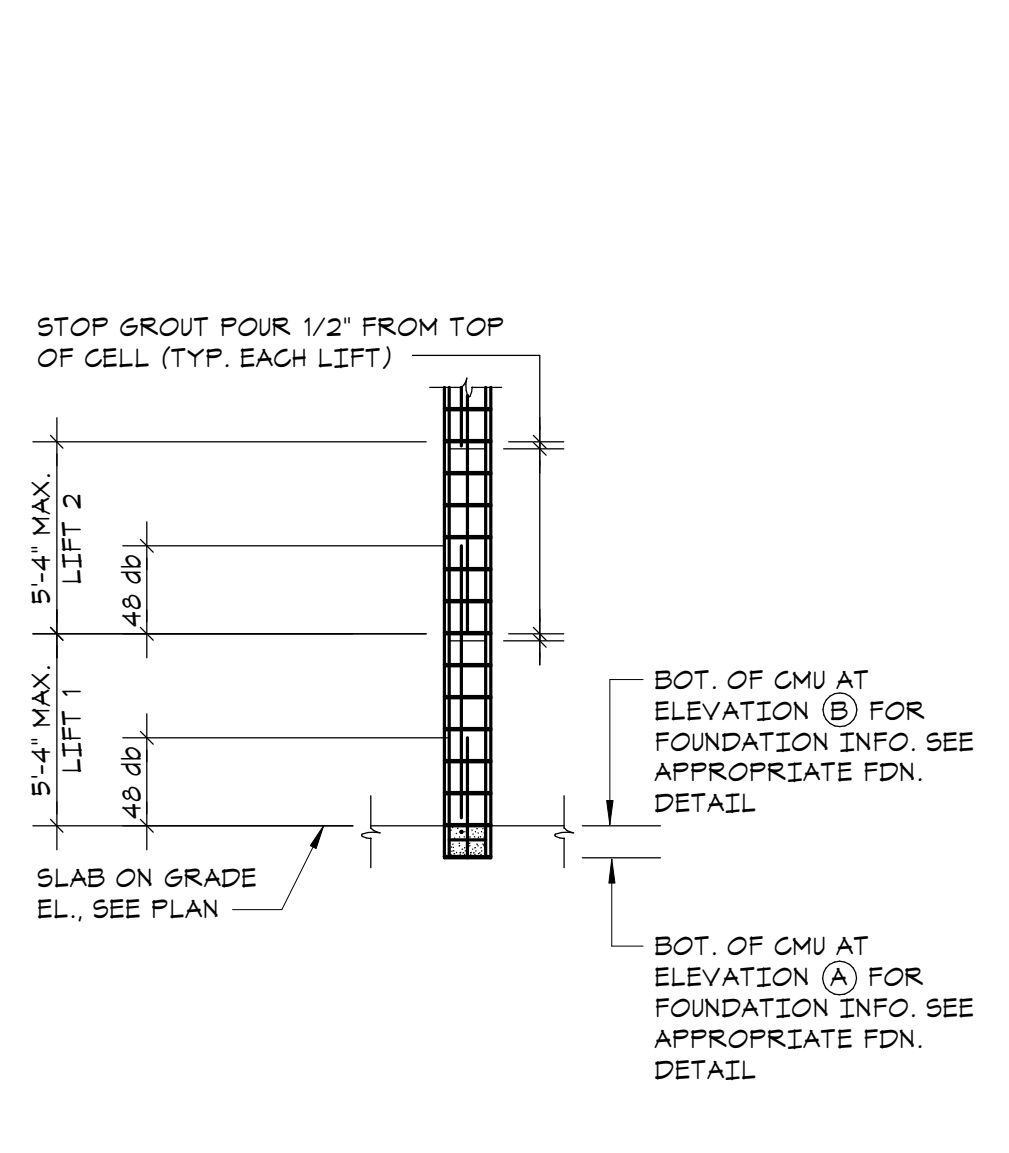
NOTES:
 1. SEE WALL ELEVATIONS (A) AND (B) FOR PLACEMENT OF REINFORCEMENT AND ADDITIONAL REQUIREMENTS.
 2. ALL WALLS SHALL HAVE HORIZ. JOINT REINFORCEMENT AS PER GENERAL NOTES. AT SHEAR WALLS PROVIDE ADDITIONAL HORIZ. JOINT REINFORCEMENT AS PER TYP. REINF. ARRANGEMENTS AT CMU SHEAR WALL ENDS, CORNERS, AND INTERSECTIONS.



ELEVATION AT EXTERIOR WALLS

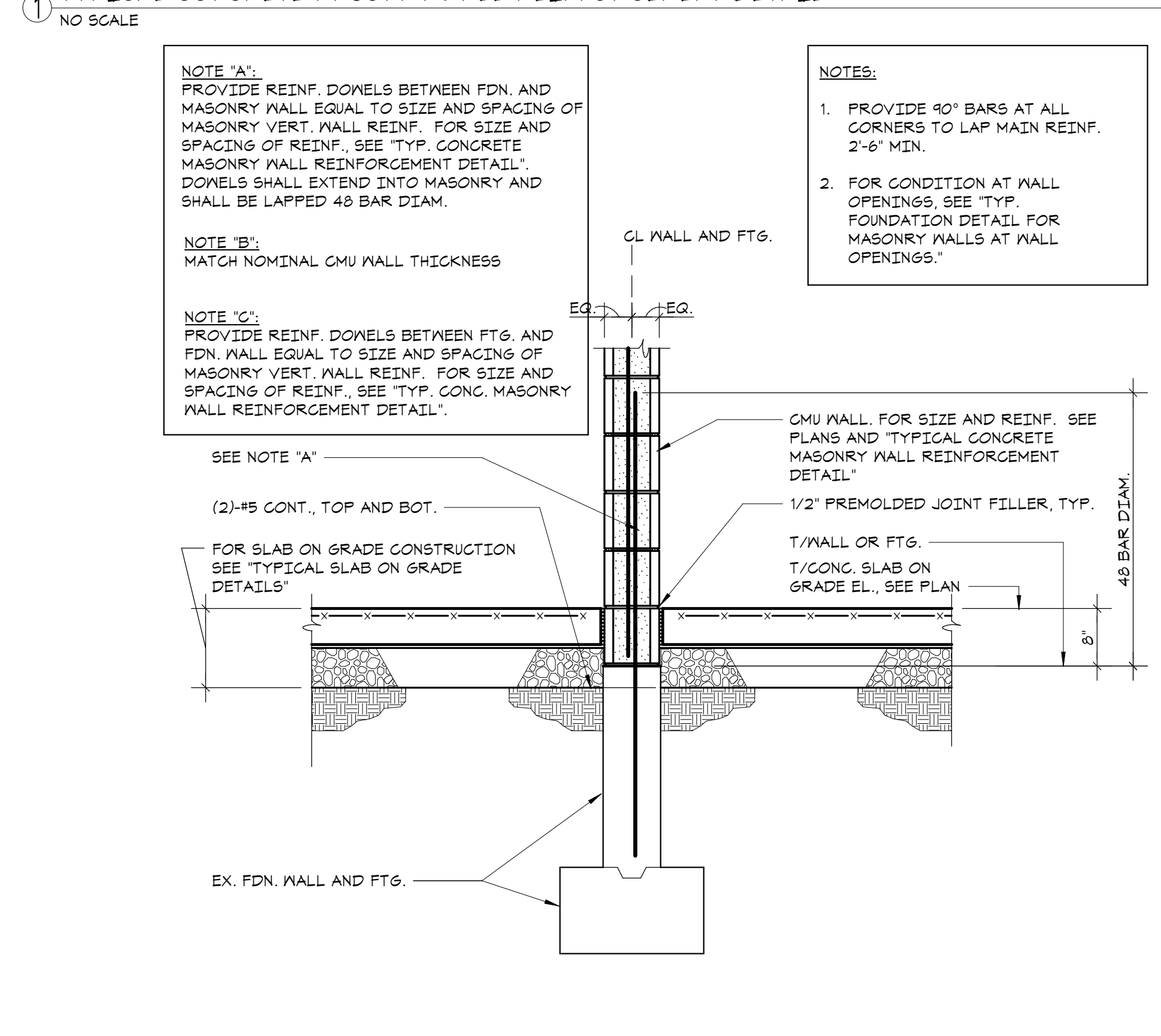


ELEVATION AT PARTITION WALLS

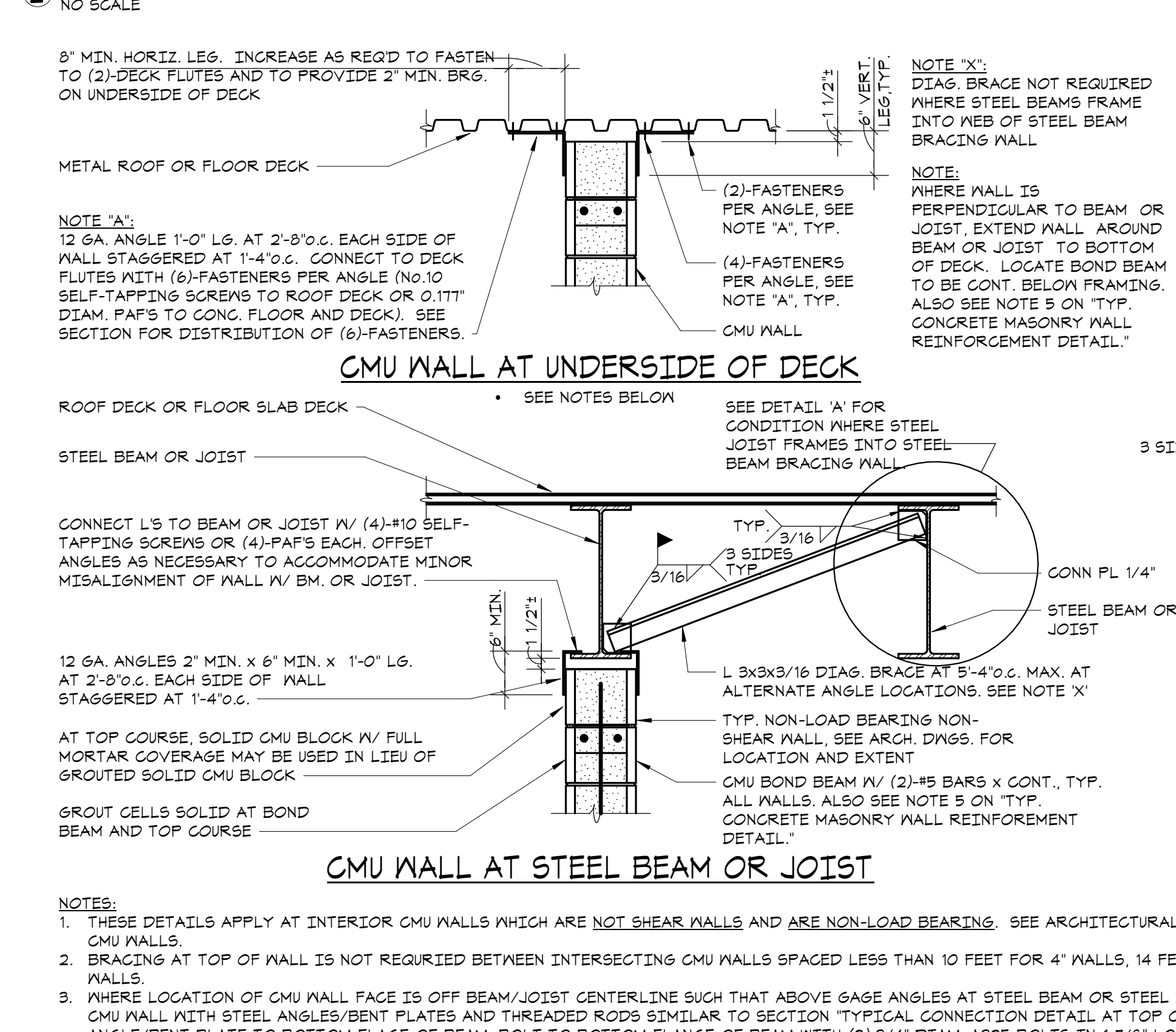


SECTION - LOW LIFT WALL GROUTING DETAIL

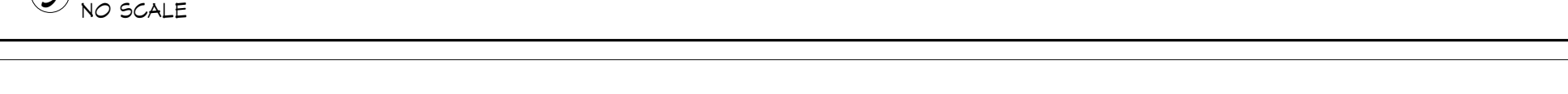
1 TYPICAL CONCRETE MASONRY WALL REINFORCEMENT DETAIL



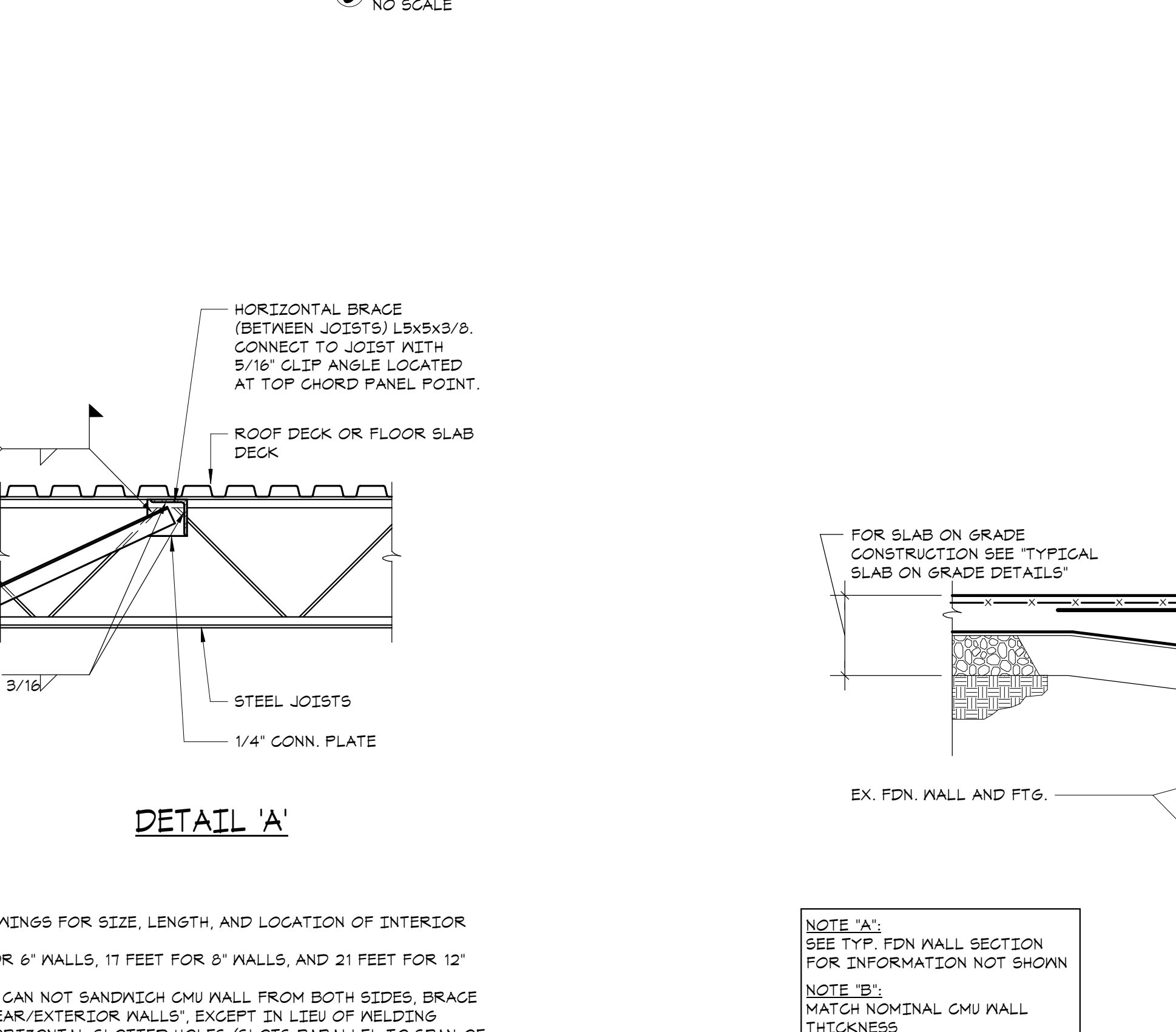
2 TYPICAL FOUNDATION DETAIL FOR MASONRY WALLS



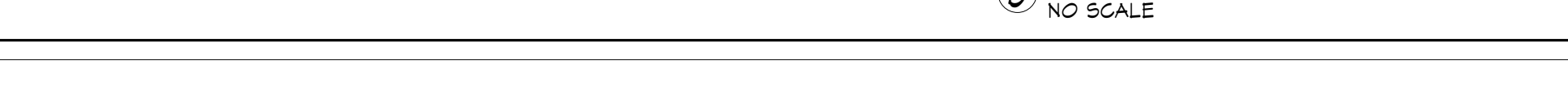
5 TYPICAL BRACING DETAIL AT TOP OF PARTITION WALL



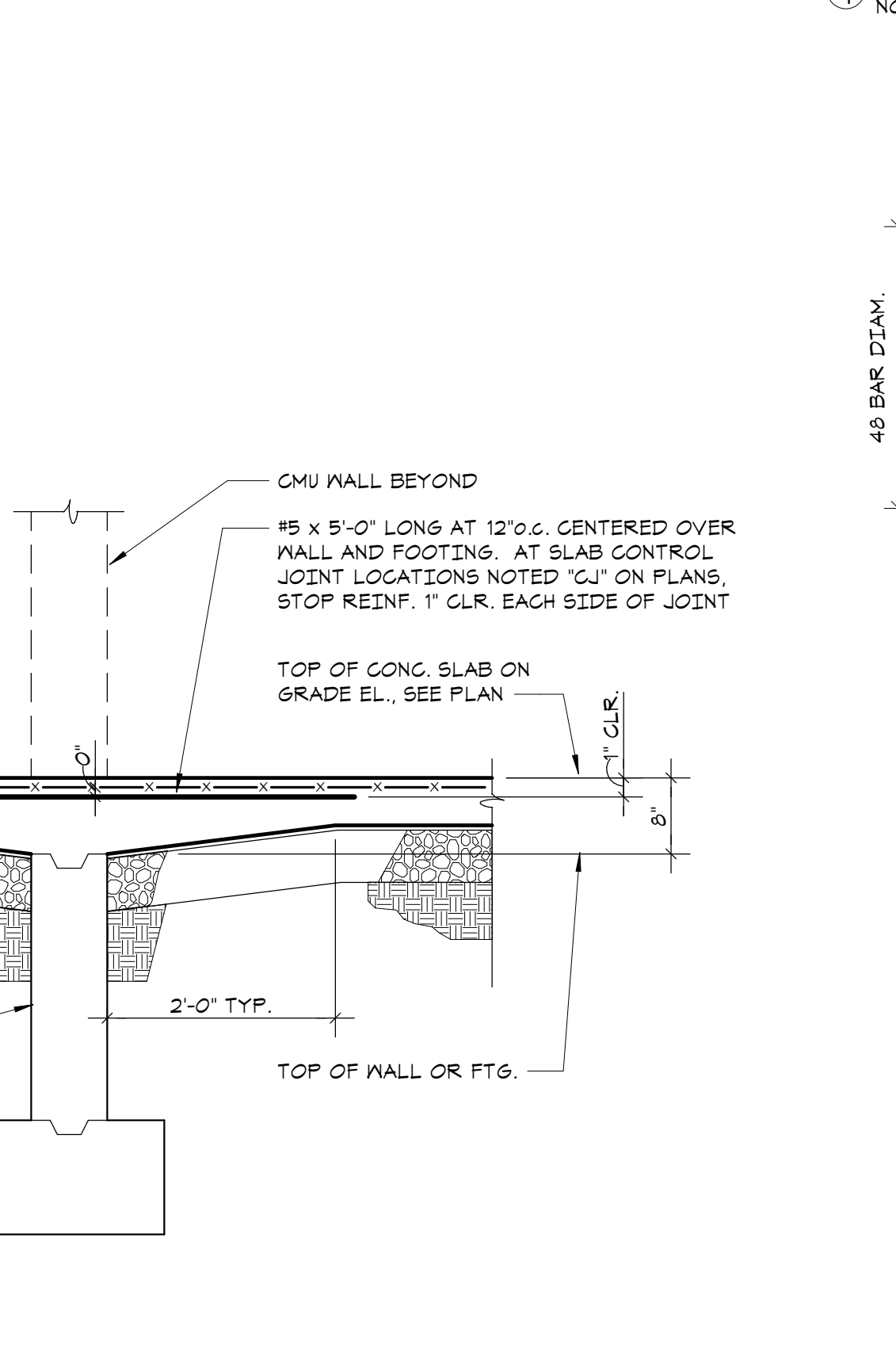
3 TYPICAL PARTITION WALL SUPPORT DETAIL



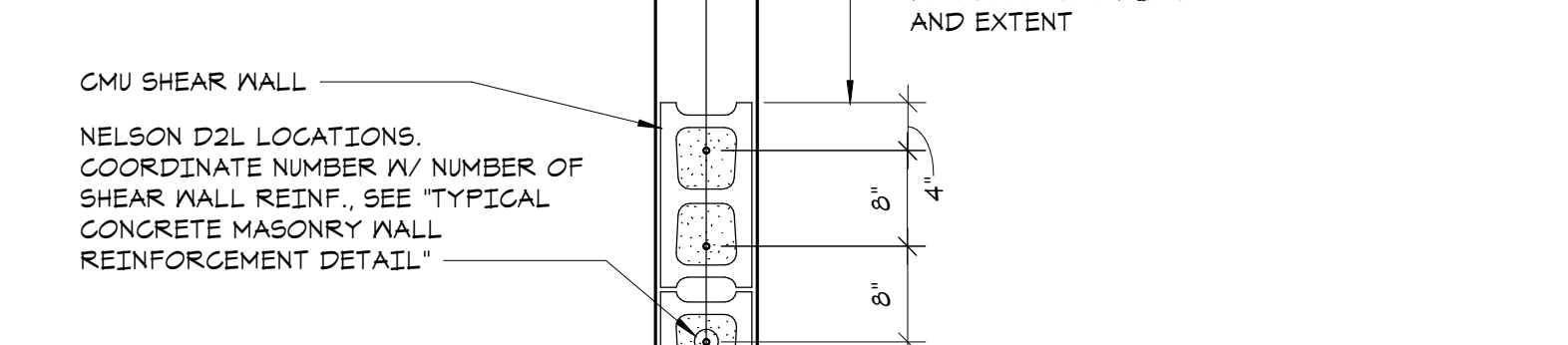
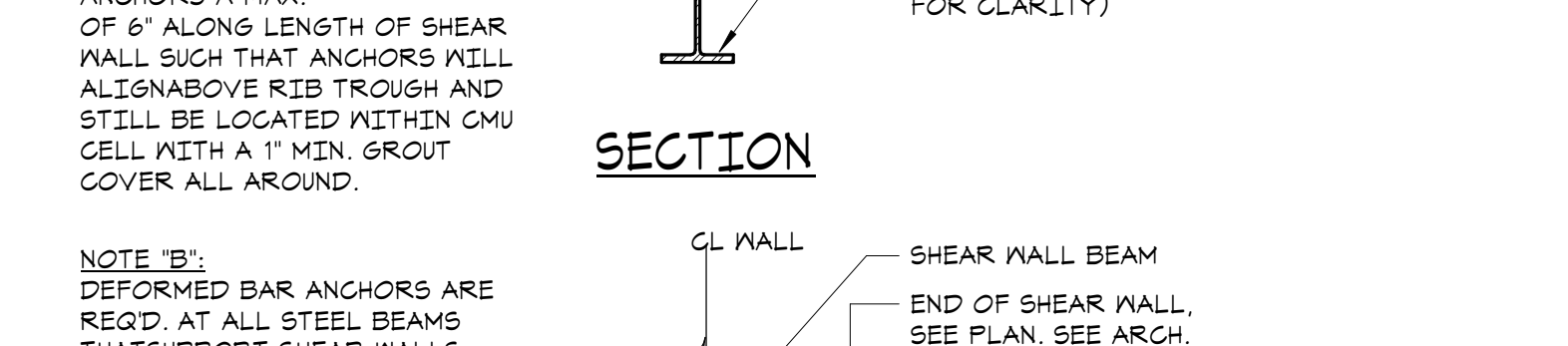
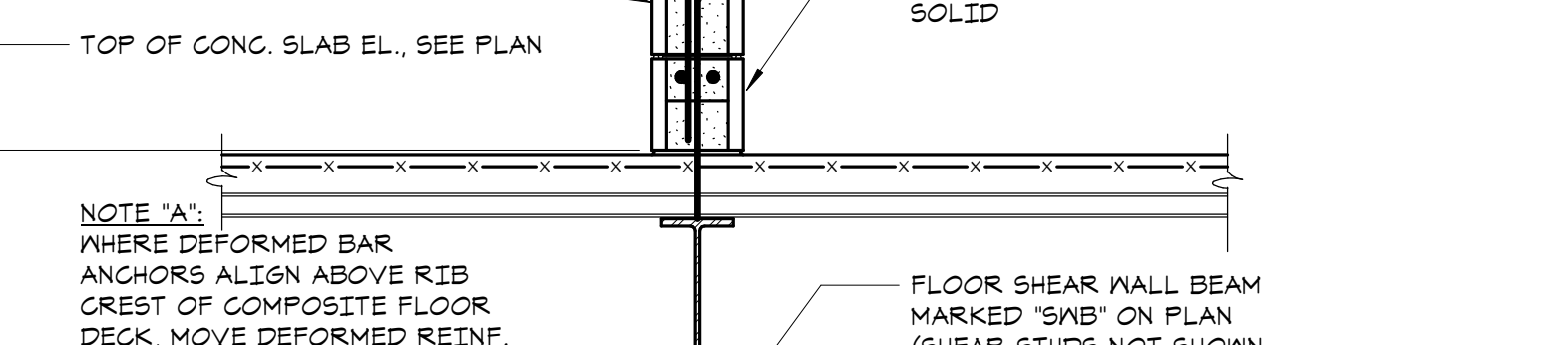
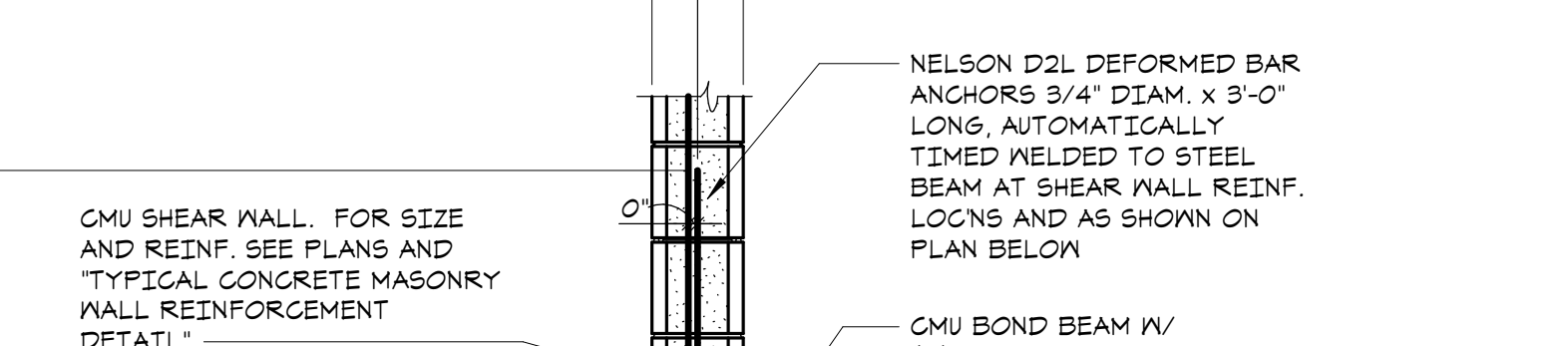
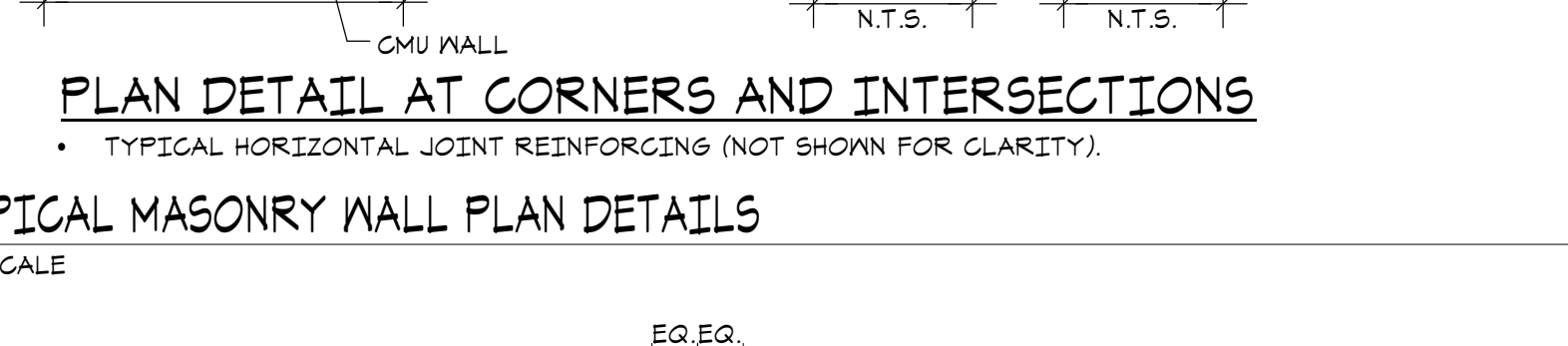
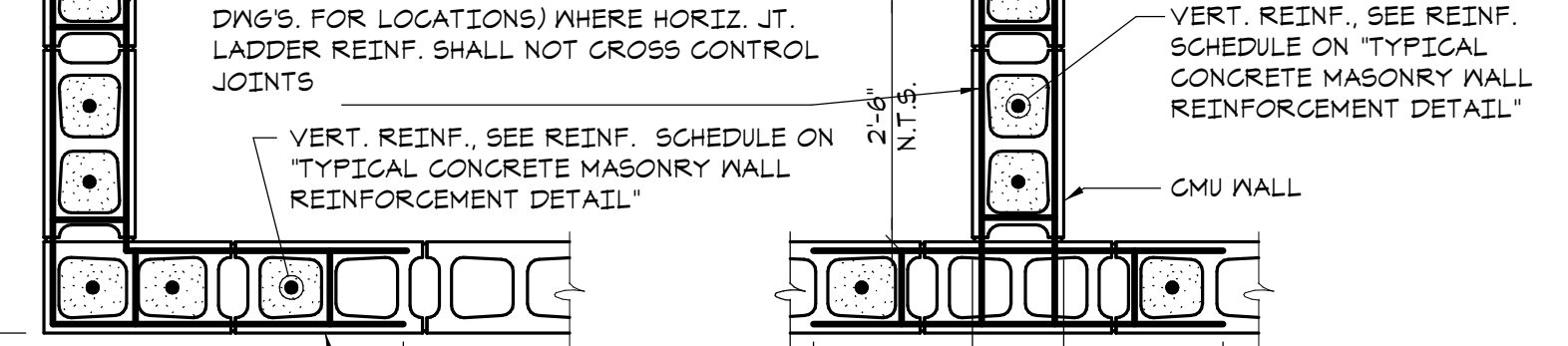
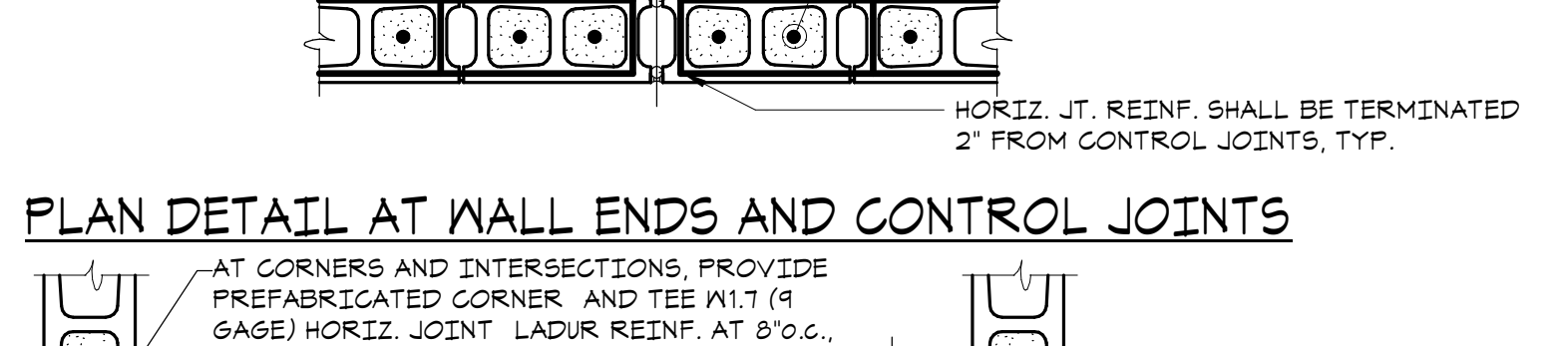
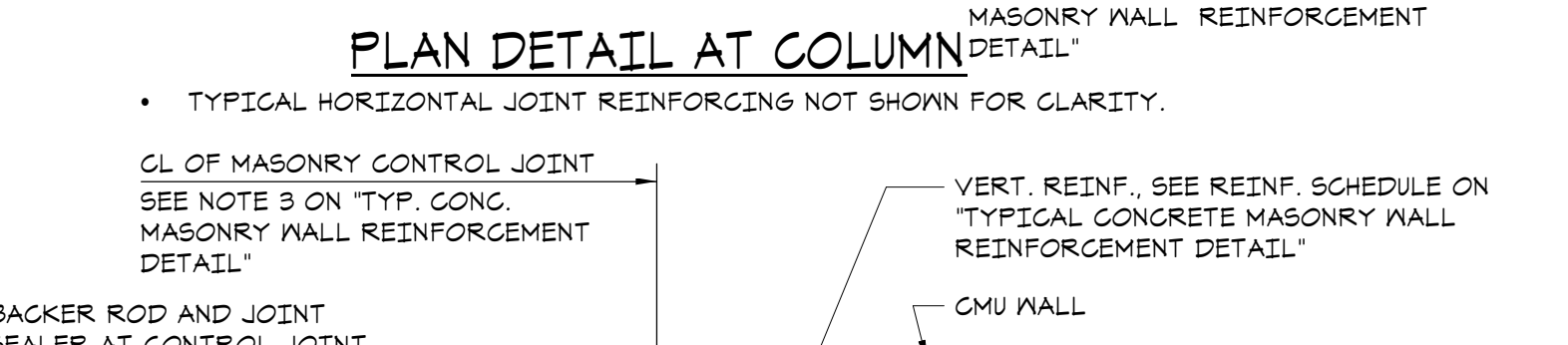
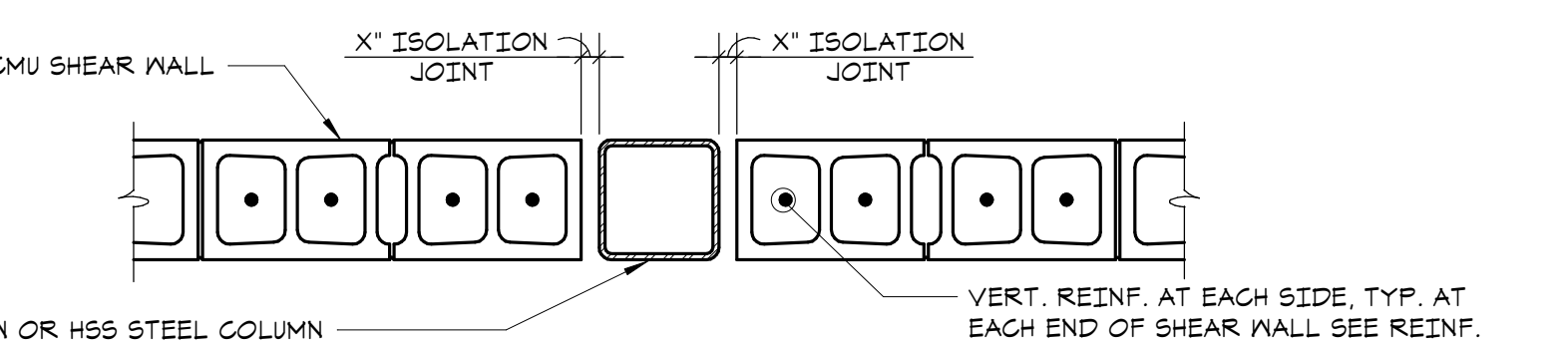
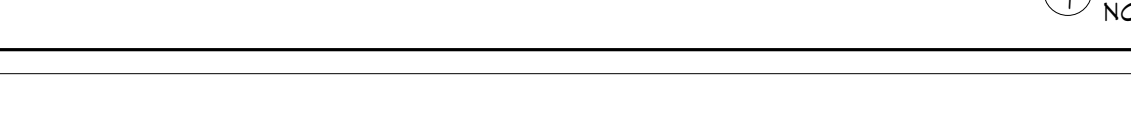
6 TYPICAL FOUNDATION DETAIL FOR MASONRY WALLS AT WALL OPENINGS



4 TYPICAL MASONRY WALL PLAN DETAILS



7 TYPICAL BASE ANCHORAGE DETAIL FOR SHEAR WALLS ON ELEVATED SLABS AND BEAMS



Key Plan

OWNERSHIP, USE AND ALTERATION OF DOCUMENTS:

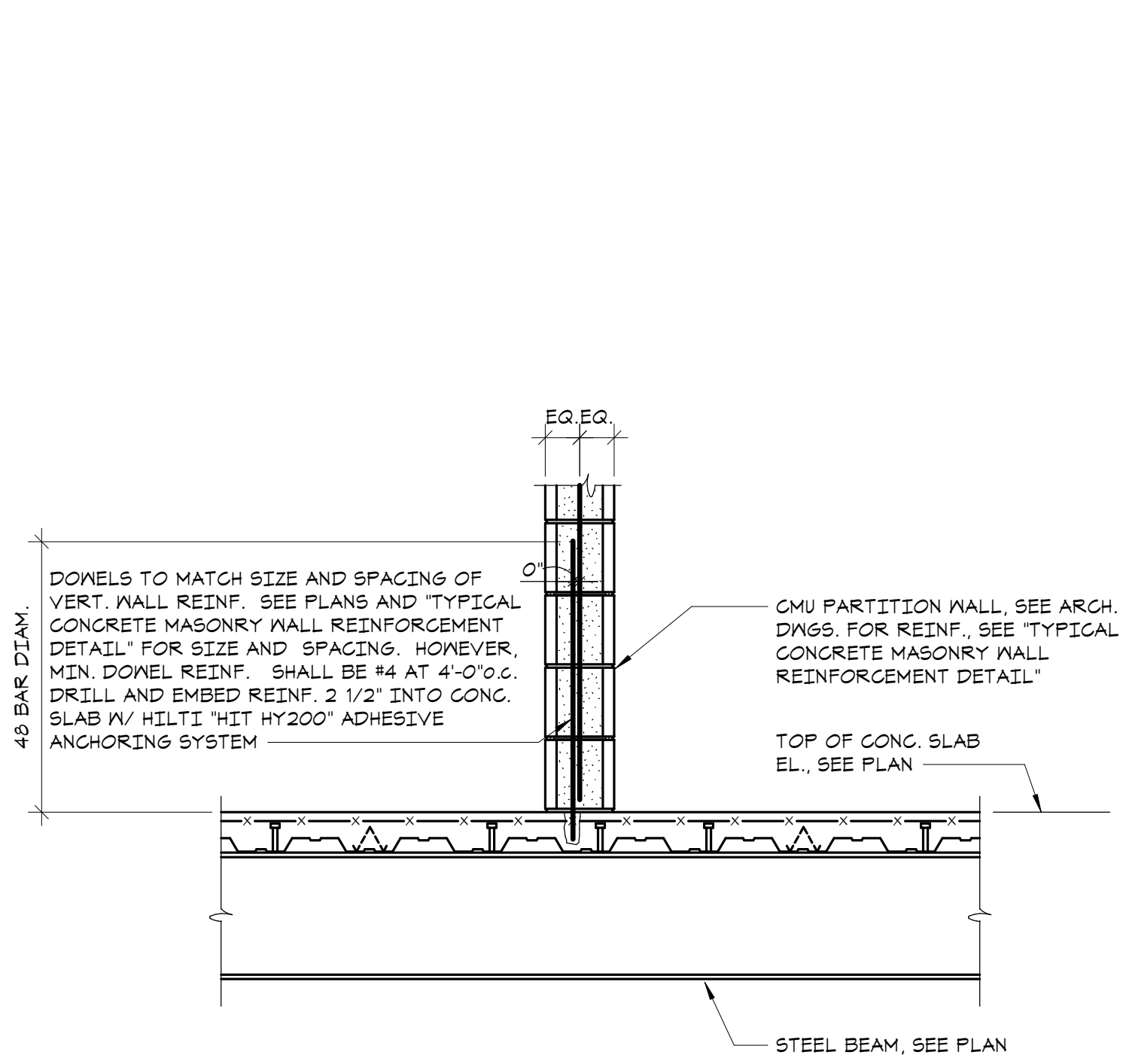
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MASONRY SCHEDULE AND TYPICAL DETAILS

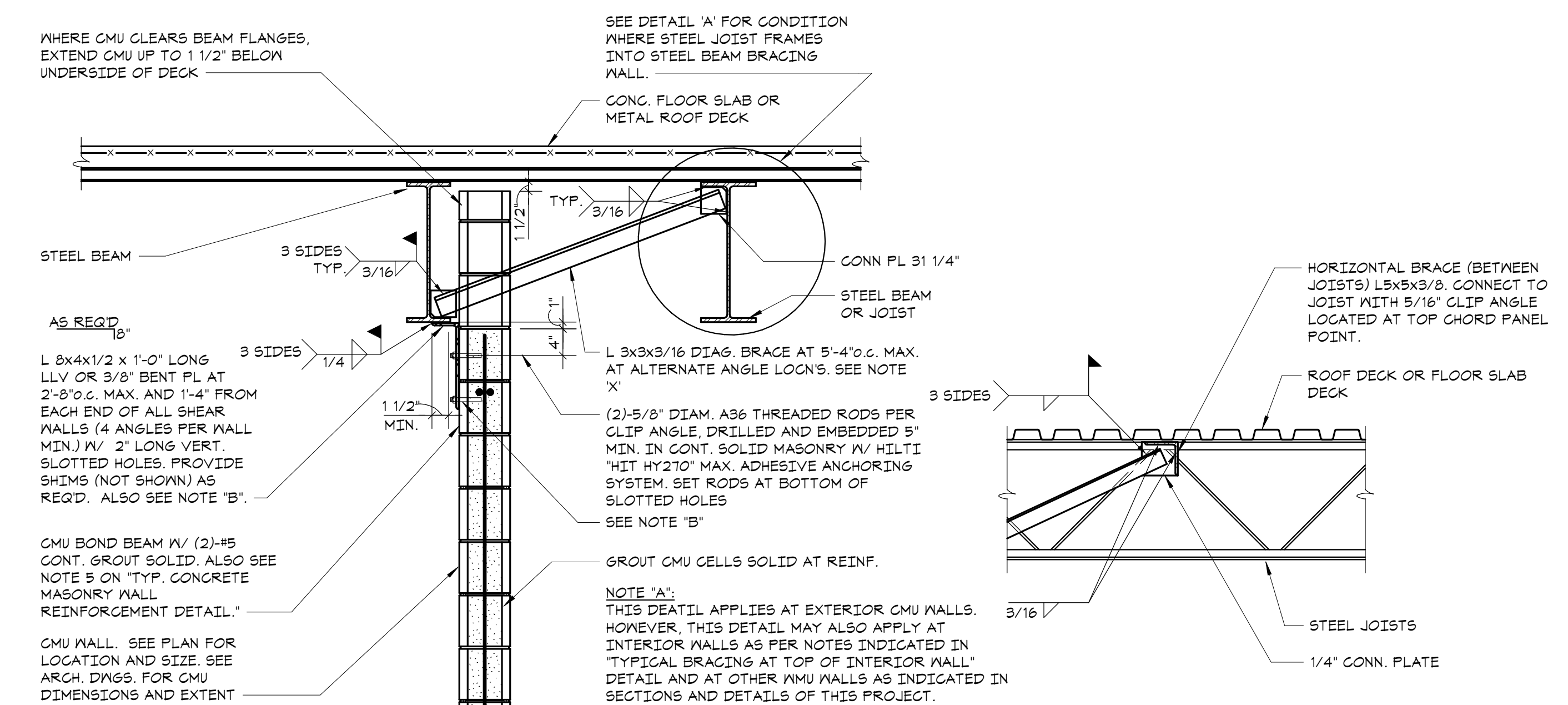
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| Job No. | 20229.00 | Date | 2020-06-01 |
| Scale | AS NOTED | Drawn / Checked | JM / EM |
| Sheet Number | | | |



NOTE 'A':
THIS DETAIL APPLIES AT INT. CMU WALLS WHICH ARE NOT SHEAR WALLS AND ARE NON-LOAD BEARING. SEE ARCH. DWGS. FOR SIZE, LENGTH, EXTENT, AND LOCATION OF INT. CMU WALLS.

NOTE 'B':
ALTERNATE TO CAST DOWELS: PROVIDE DRILLED DOWELS (NOT SHOWN). MATCH SIZE AND SPACING OF VERTICAL WALL REINF. MAX. SPACING 4'-0" O.C. DRILL AND EMBED DOWELS 'B' INTO CONG. WITH HILTI "RE-BOSS" ADHESIVE ANCHORING SYSTEM OR SIMPSON "SET-XP" ADHESIVE ANCHORING SYSTEM.

① TYPICAL BASE ANCHORAGE DETAIL FOR PARTITION WALLS ON ELEVATED SLABS
NO SCALE



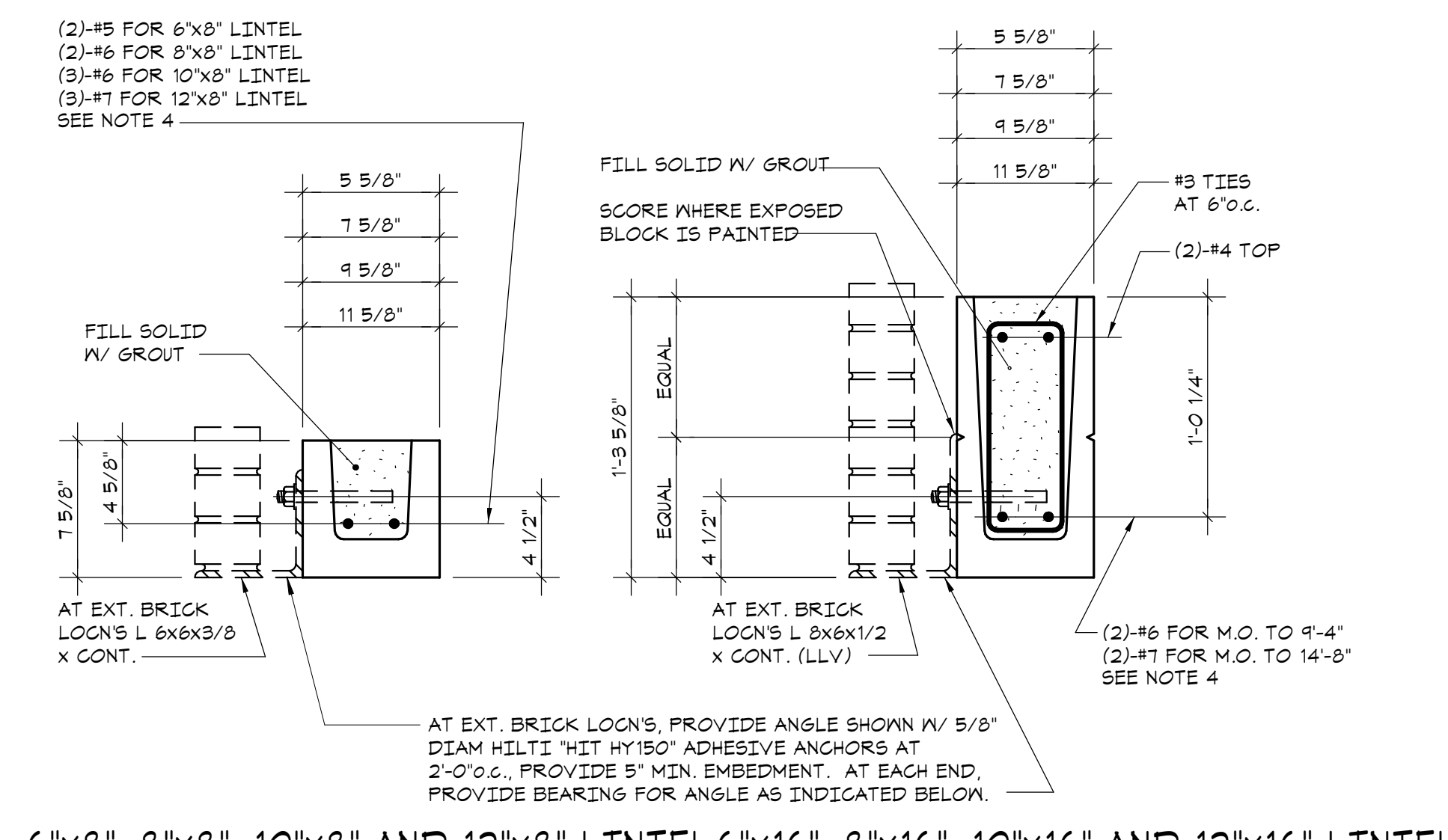
NOTE 'A':
THIS DETAIL APPLIES AT EXTERIOR CMU WALLS. HOWEVER, THIS DETAIL MAY ALSO APPLY AT INTERIOR WALLS AS PER NOTES INDICATED IN "TYPICAL BRACING AT TOP OF INTERIOR WALL" DETAIL AND AT OTHER CMU WALLS AS INDICATED IN SECTIONS AND DETAILS OF THIS PROJECT.

NOTE 'B':
AT INTERIOR WALLS ONLY. AT TOP COURSE, SOLID CMU BLOCK 1/4" FULL MORTAR COVERAGE MAY BE USED IN LIEU OF GROUTED SOLID CMU BLOCK. IN THIS CASE EXTEND VERT. LEG OF BENT PLATE AS REQ'D AND BOLT TO BOND BEAM IN LIEU OF TOP COURSE.

NOTE 'C':
WHERE ARCH. DWGS. INDICATE BEAM WEB TO BE FILLED 1/4" CMU, PROVIDE MASONRY ANCHORS AS PER GENERAL NOTES.

NOTE 'X':
DIAG. BRACE NOT REQUIRED WHERE STEEL BEAMS FRAME INTO WEB OF STEEL BEAM BRACING WALL.

② TYPICAL CONNECTION DETAIL AT TOP OF EXTERIOR WALLS
NO SCALE



6"x8", 8"x8", 10"x8" AND 12"x8" LINTEL 6"x16", 8"x16", 10"x16" AND 12"x16" LINTEL

FOR M.O. TO 8'-8" 8" BEARING (MIN.) EACH END SEE LINTEL NOTES

NOTE:

- THIS DETAIL APPLIES ONLY TO LINTELS IN NON-LOAD BEARING WALLS.
- AT EACH SIDE OF WALL OPENINGS, PROVIDE VERT. REINF. FULL HEIGHT AS PER "TYPICAL CONCRETE MASONRY WALL REINFORCEMENT DETAIL".
- SEE MASONRY GENERAL NOTES FOR INFO. REGARDING MASONRY LINTELS NOT SHOWN ON STRUCTURAL PLANS AND INFO. REGARDING TEMPORARY SUPPORT.
- EXTEND REINFORCING BARS PAST OPENINGS AS PER "TYPICAL CONCRETE MASONRY WALL REINFORCEMENT DETAIL".

FOR M.O. TO 14'-8" 12" BEARING (MIN.) EACH END SEE LINTEL NOTES

③ TYPICAL MASONRY LINTELS IN NON-LOAD BEARING WALLS DETAILS
NO SCALE

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| 1 | 2024-01-16 | ISSUED FOR PERMIT |

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Sheet Title

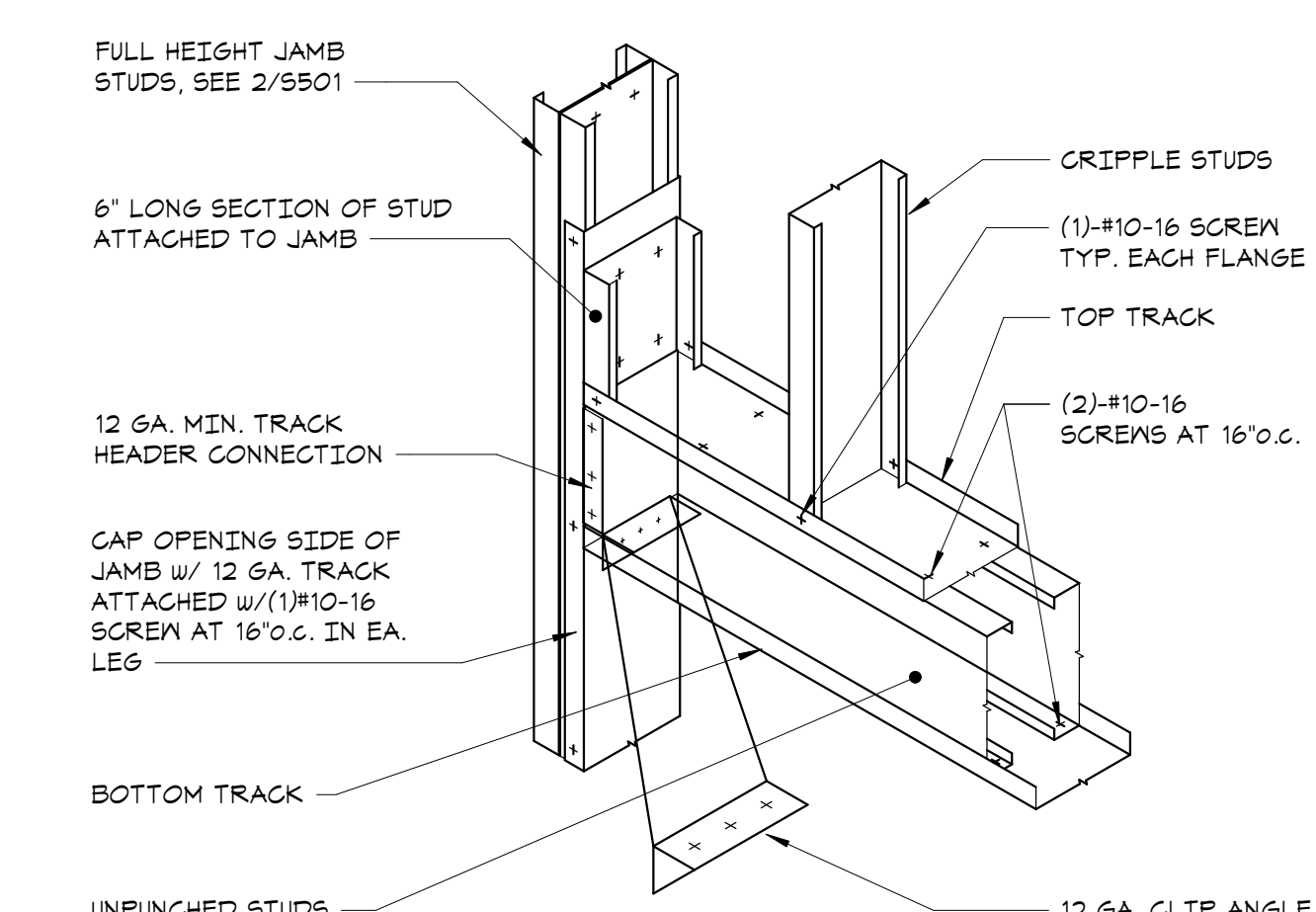
**MASONRY
TYPICAL DETAILS**

Job No. 20029.00 Date 2020-06-01

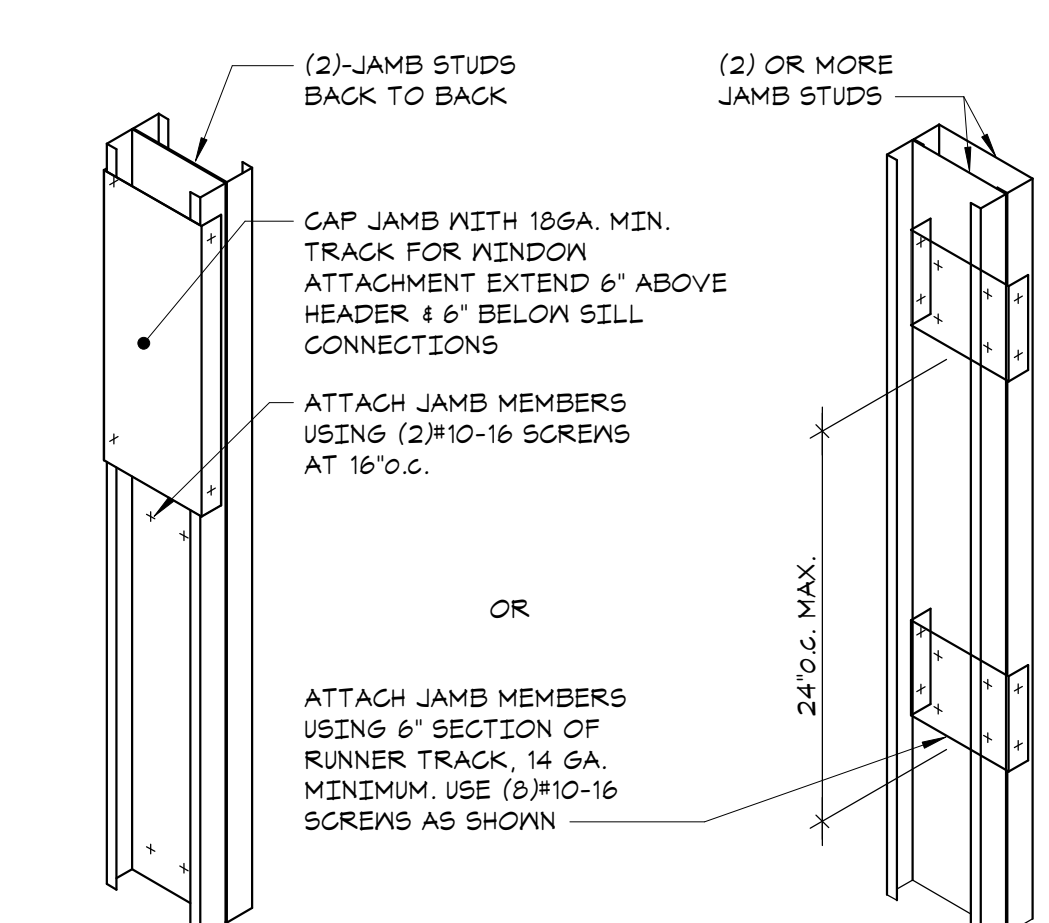
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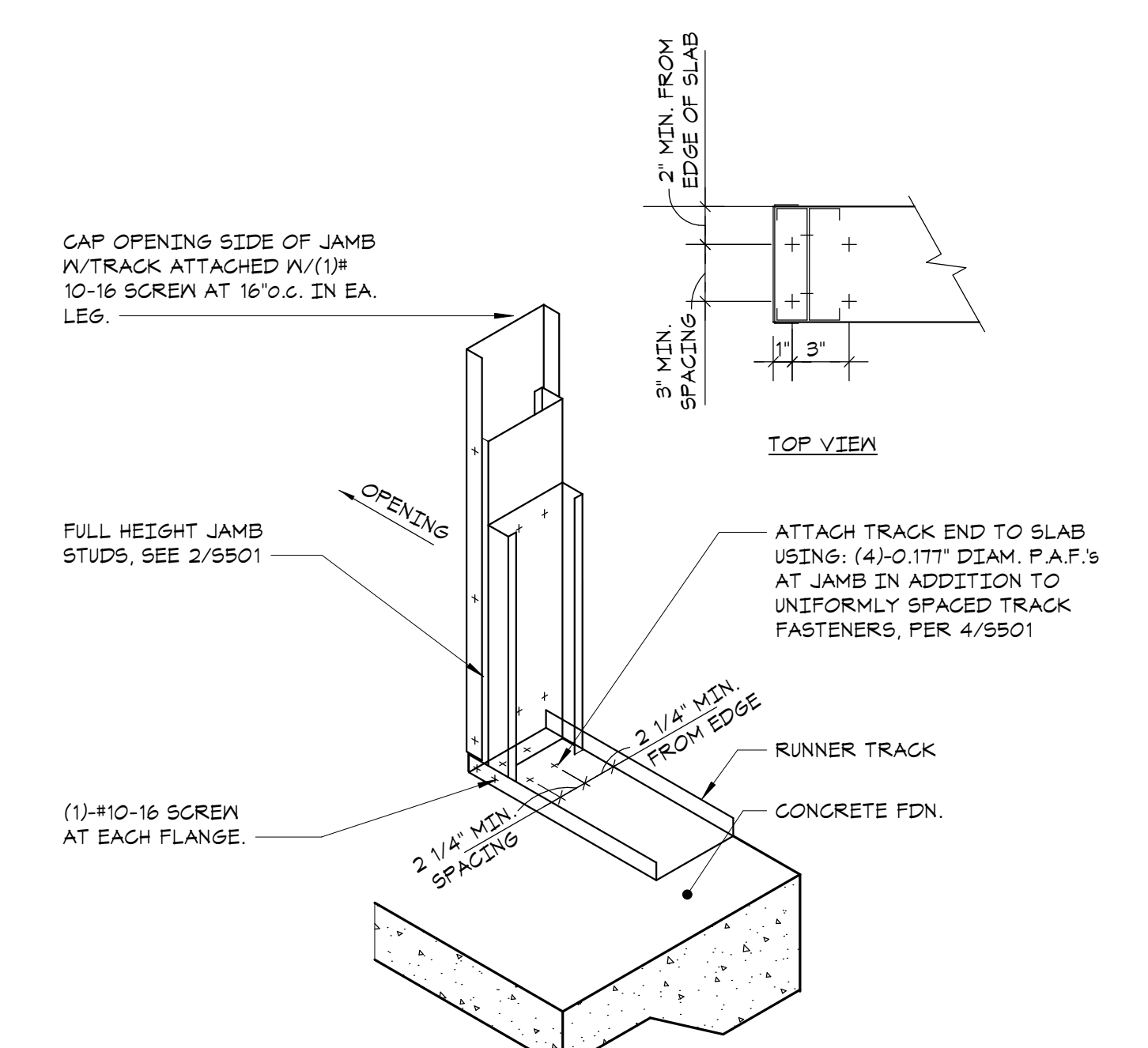
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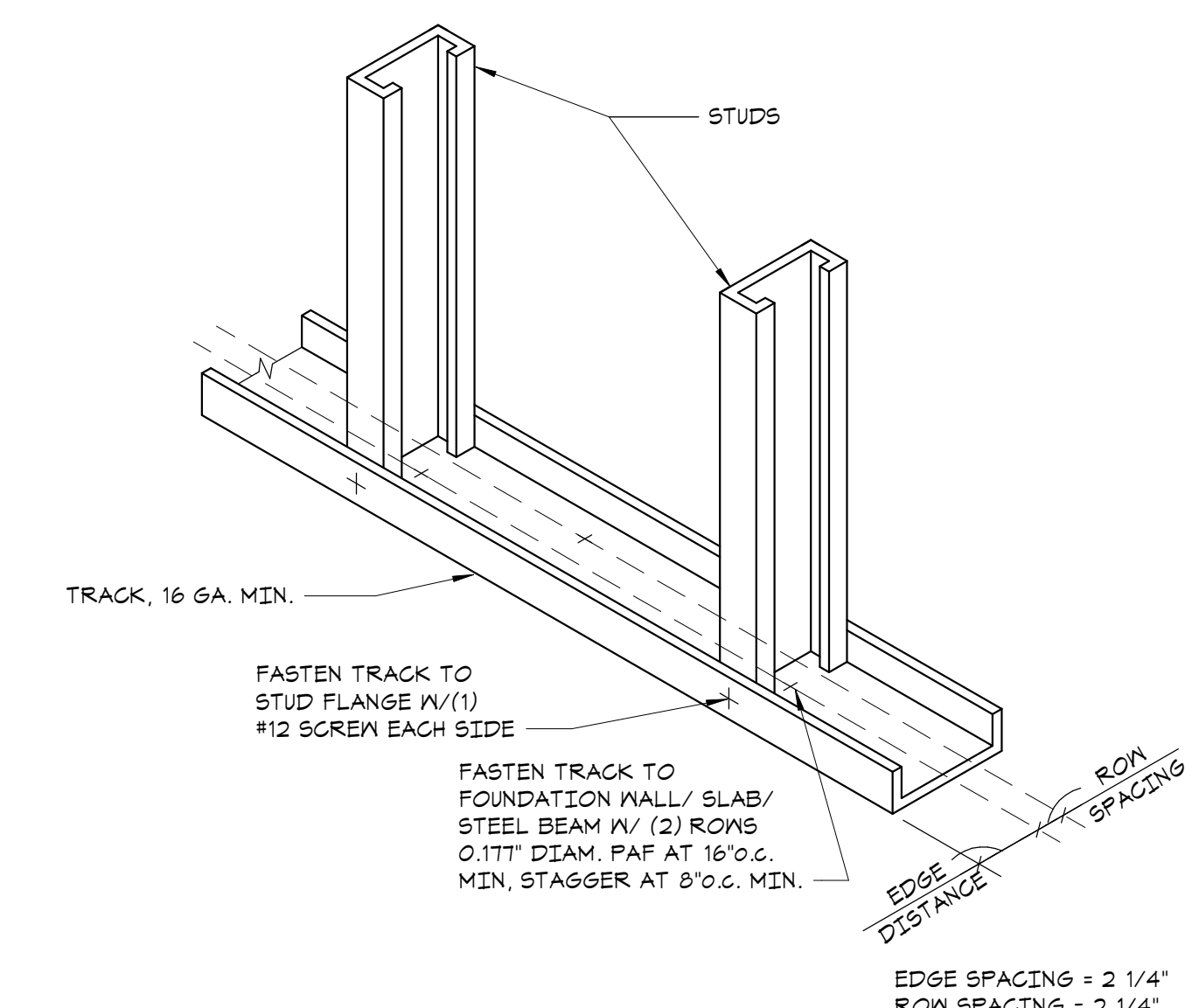
1 TYPICAL BOXED HEADER DETAIL
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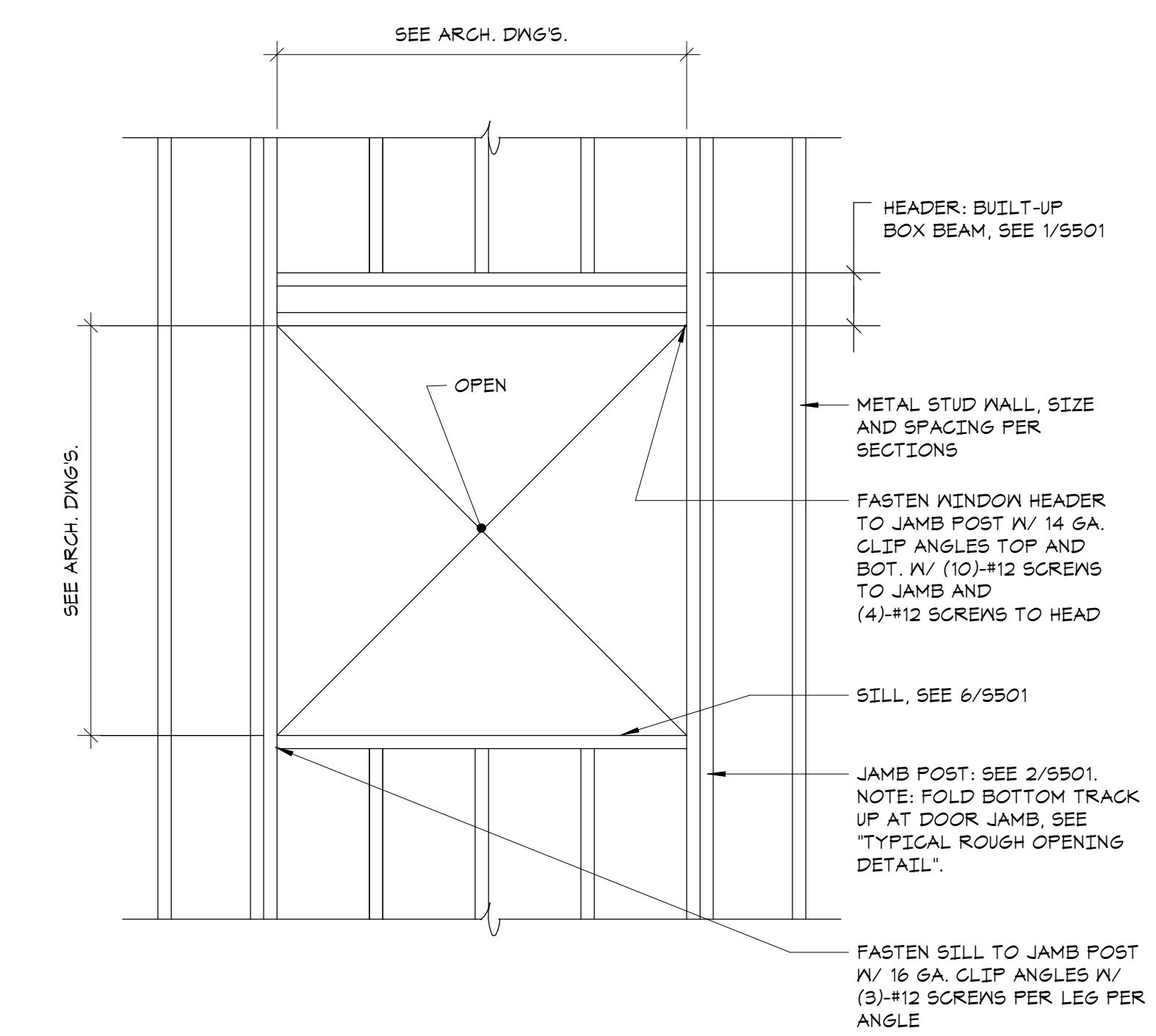
2 TYPICAL BUILT-UP JAMB DETAIL
NO SCALE



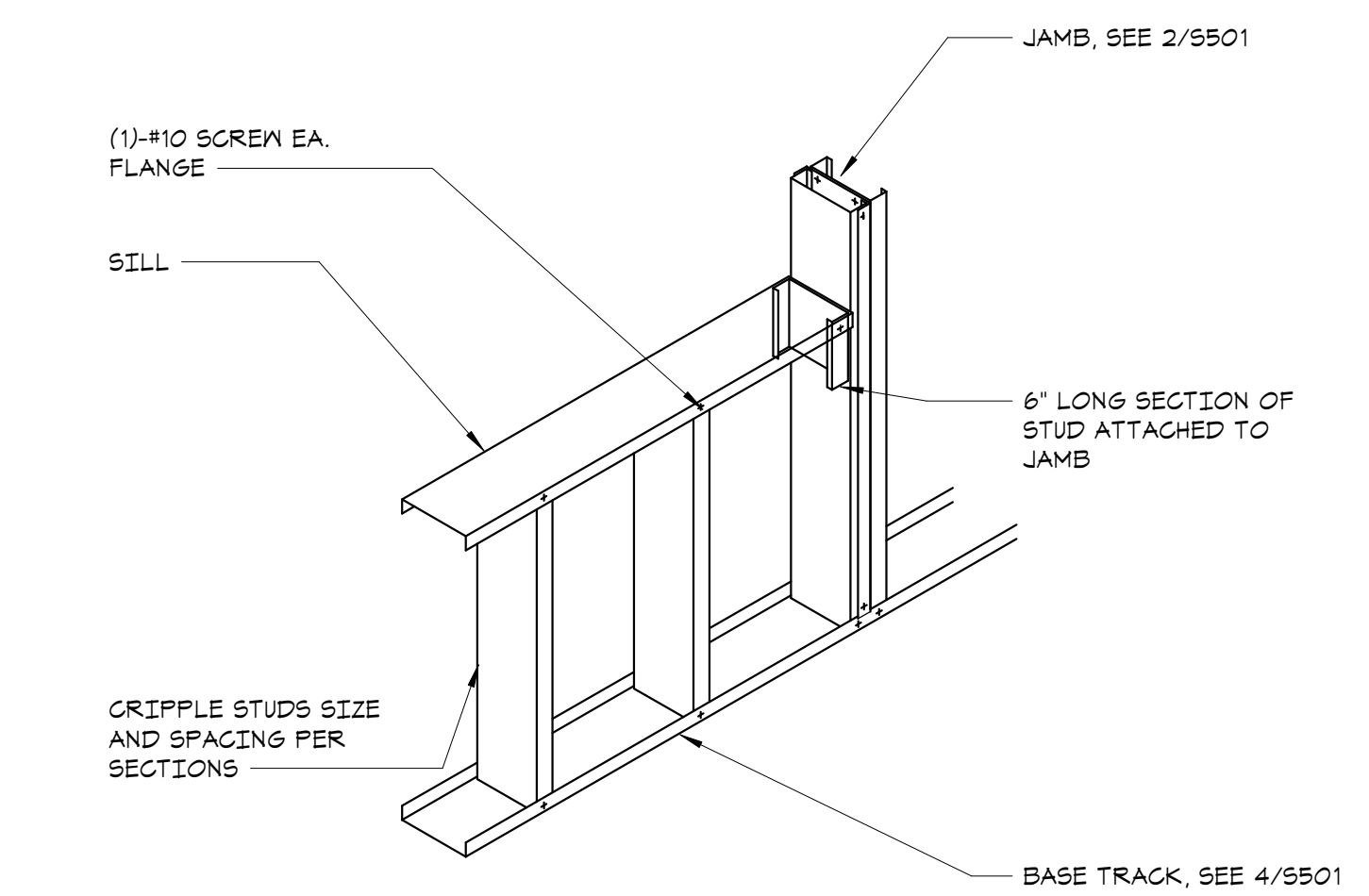
3 TYPICAL JAMB ANCHORAGE DETAIL
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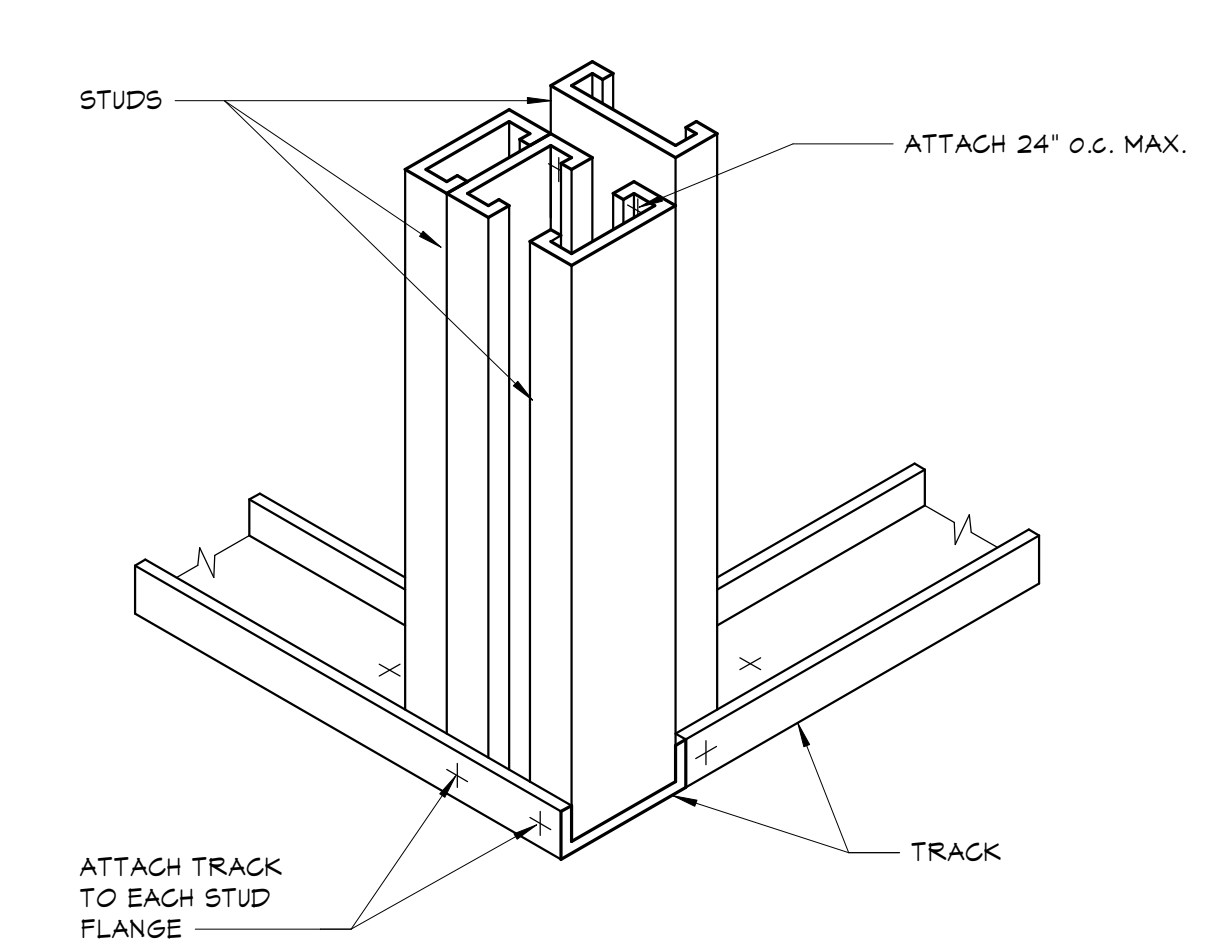
4 TYPICAL COLD FORMED STUD WALL DETAIL
NO SCALE



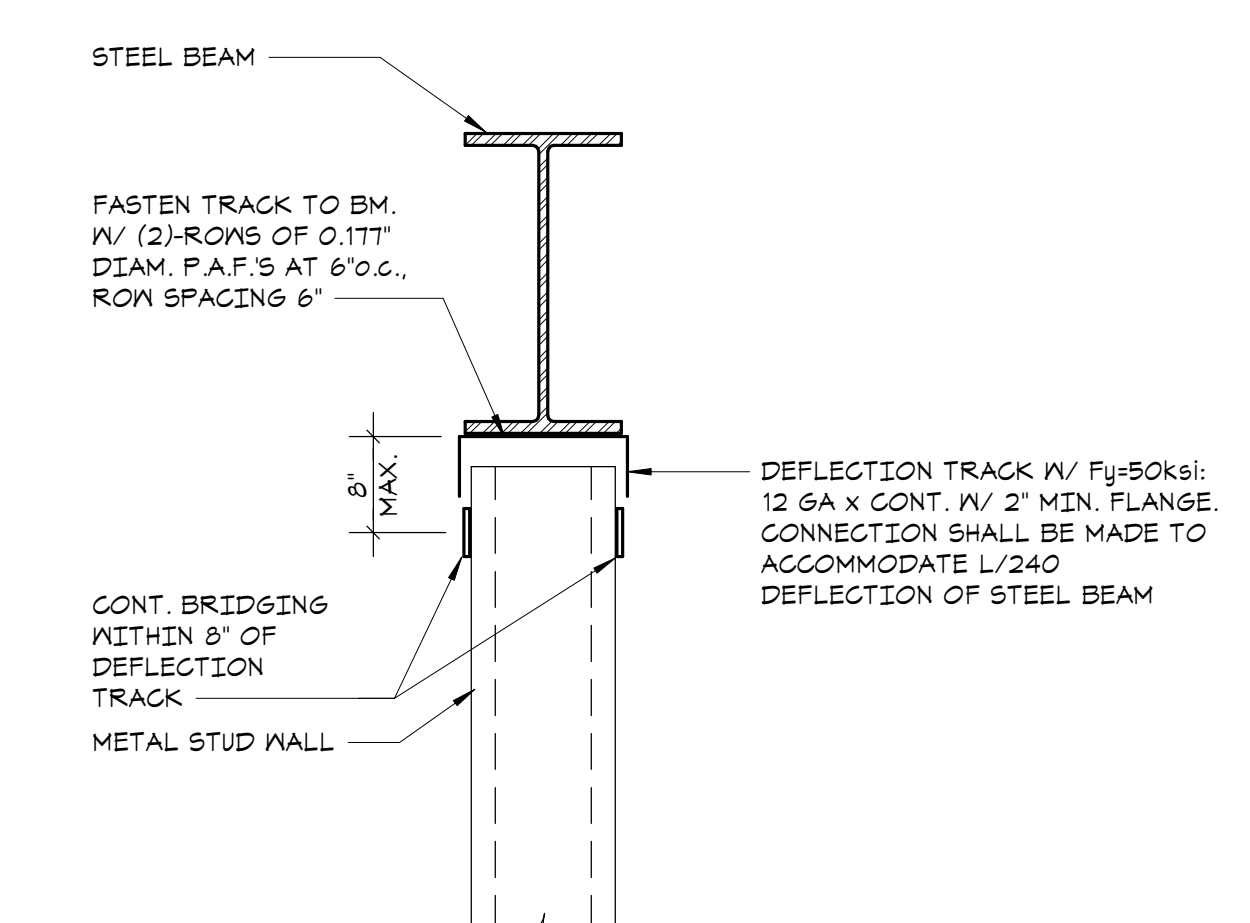
5 TYPICAL STUD WALL OPENING
NO SCALE



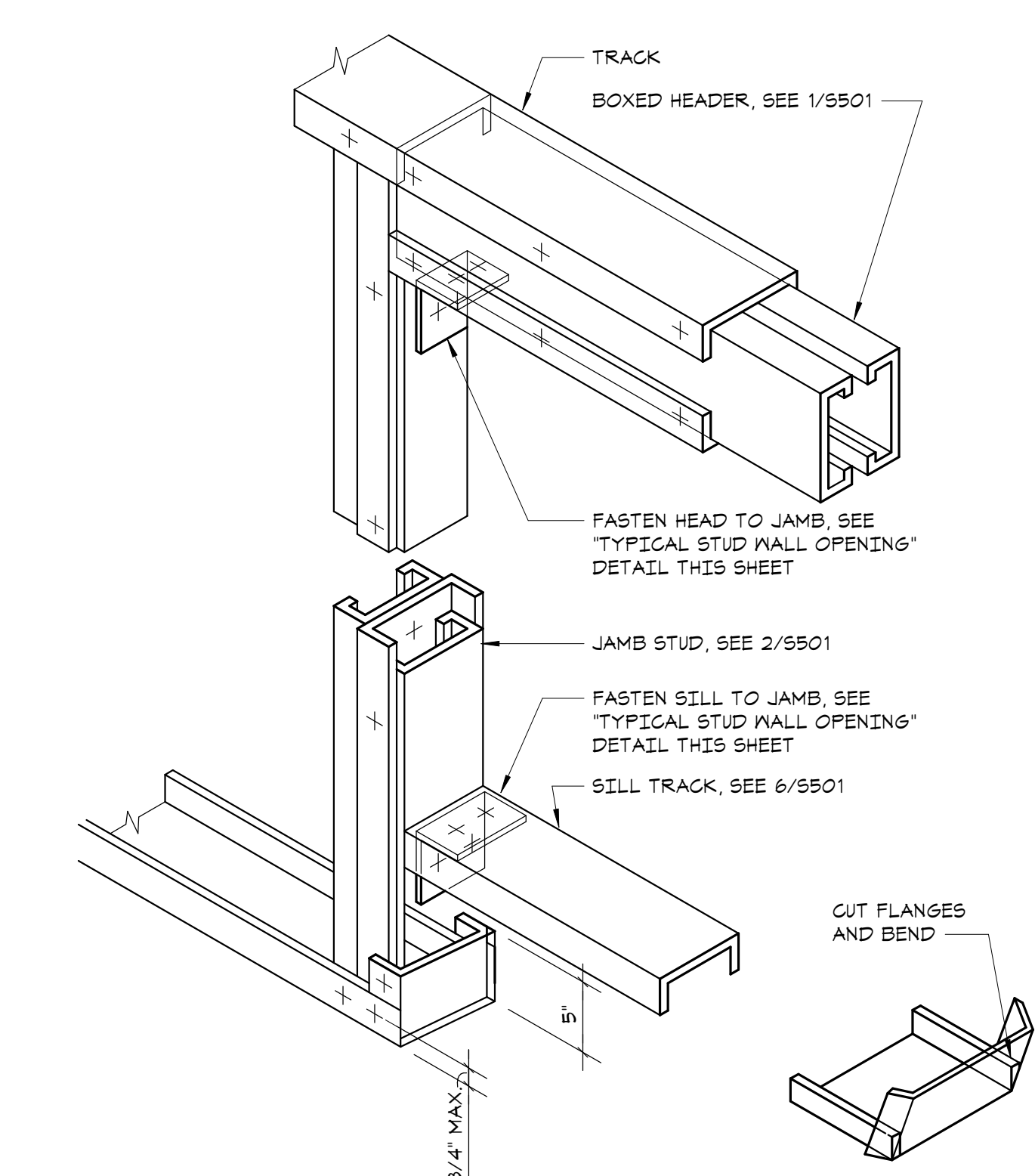
6 TYPICAL SILL DETAIL
NO SCALE



7 TYPICAL STUD WALL CORNER DETAIL
NO SCALE



8 TYPICAL DEFLECTION TRACK DETAIL
NO SCALE



10 TYPICAL ROUGH OPENING DETAIL
NO SCALE

| COLD FORMED METAL FRAMING SCHEDULE | | | |
|------------------------------------|------------------------------------|------------------------------------|--------------------|
| TYPICAL FRAMING | | | |
| EXTERIOR 6\"/> | • 600S162-54 AT 16\"/> | • DOUBLE 600S162-54 AT 16\"/> | • 600T125-54 TRACK |
| OPENINGS | | | |
| R.O. WIDTH | HEADER | SILL | JAMB |
| 3'-6\"/> | (2)-600T125-54 + (1)-600S162-54 | 600T125-54 | (2)-600S162-54 |
| 3'-6\"/> | (2)-600T125-54 + (2)-600S162-54 | (2)-600T125-54 + (1)-600S162-54 | (2)-600S162-54 |
| 5'-0\"/> | (2)-600T125-54 + (3)-600S162-54 | (2)-600T125-54 + (2)-600S162-54 | (3)-600S162-54 |
| 8'-0\"/> | (2)-600T125-54 + (3)-600S162-54 | (2)-600T125-54 + (2)-600S162-54 | (3)-600S200-54 |

- SHAPE DESIGNATION BASED ON "INDUSTRY STANDARD NOMENCLATURE" (REFER TO SSMA.COM)
- ALL BUILT-UP MEMBERS TO BE FASTENED TOGETHER WITH #12 SCREWS AT 12\"/>

9 COLD-FORMED FRAMING SCHEDULE
NO SCALE

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**COLD-FORMED
FRAMING
SCHEDULES AND
TYPICAL DETAILS**

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| Job No. | 20029.00 | Date | 2020-06-01 |
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Sheet Number

S501

HARRISON RECREATION & COMMUNITY CENTER

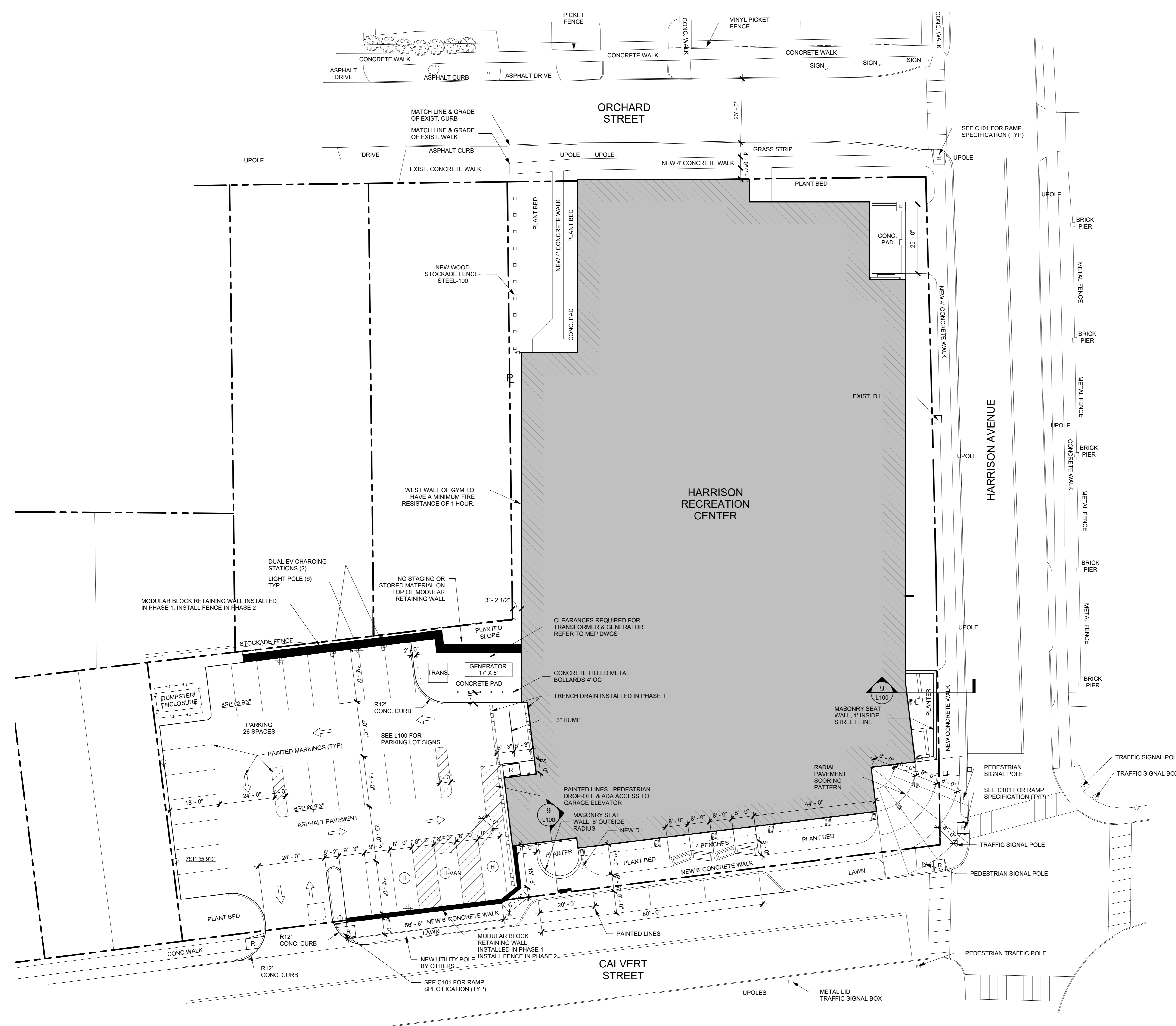
New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS



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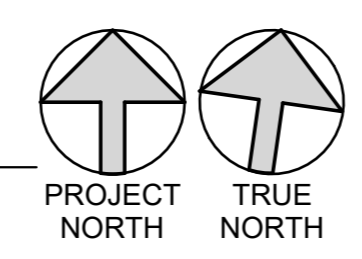
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| 4 | 06/05/2024 | ISSUED FOR BID |
| 3 | 01/16/24 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title

ARCHITECTURAL SITE PLAN

| | | | |
|--------------|-------------|-----------------|------------|
| Job No. | 2020-1005 | Date | 03/31/2020 |
| Scale | AS NOTED | Drawn / Checked | - / - |
| Sheet Number | A101 | | |

1 ARCHITECTURAL SITE PLAN
 1/16" = 1'-0"



HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS

PLAN GENERAL NOTES

1. DIMENSIONS SHOWN ARE TO FACE OF GYPSUM OR FACE OF CMU. DIMENSIONS SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
2. PROVIDE SUPPLEMENTAL BLOCKING AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: GRAB BARS, SHELVING, CABINETS, SIGNAGE, TOILET ROOM ACCESSORIES, AV EQUIPMENT, DISPLAY BOARDS, ETC. THE CONFIGURATION OF THE BLOCKING MUST MATCH THE SPECIFIC ITEM PROVIDED.
3. FACE OF ADJACENT WALL TO INSIDE EDGE OF DOOR FRAME IS 6" (TYPICAL) U.N.O.
4. SEE FINISH SCHEDULE FOR MATERIALS & FINISHES.
5. ABOVE ALL INTERIOR OPENINGS, PROVIDE ADJACENT PARTITION TYPE U.N.O.
6. SEE ELEVATIONS FOR ADDITIONAL WINDOWS THAT MAY NOT BE SHOWN IN FLOOR PLANS.

FLOOR PLAN LEGEND

- NEW PARTITION AS INDICATED
- NEW GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
- FEC - FIRE EXTINGUISHER CABINET
- NEW DOOR, DOOR NUMBER
- WALL TYPE
- FRAME TYPE



1 LOWER LEVEL & PARKING PLAN
1/8" = 1'-0"

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| No. | Date | Issue |
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| 4 | 06/05/2024 | ISSUED FOR BID |
| 3 | 01/16/24 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

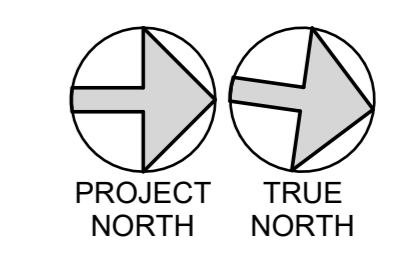
Sheet Title

LOWER LEVEL PARKING PLAN

Job No. 2020-1005 Date 03/31/2020

Scale AS NOTED Drawn / Checked

Sheet Number **A201**



HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528

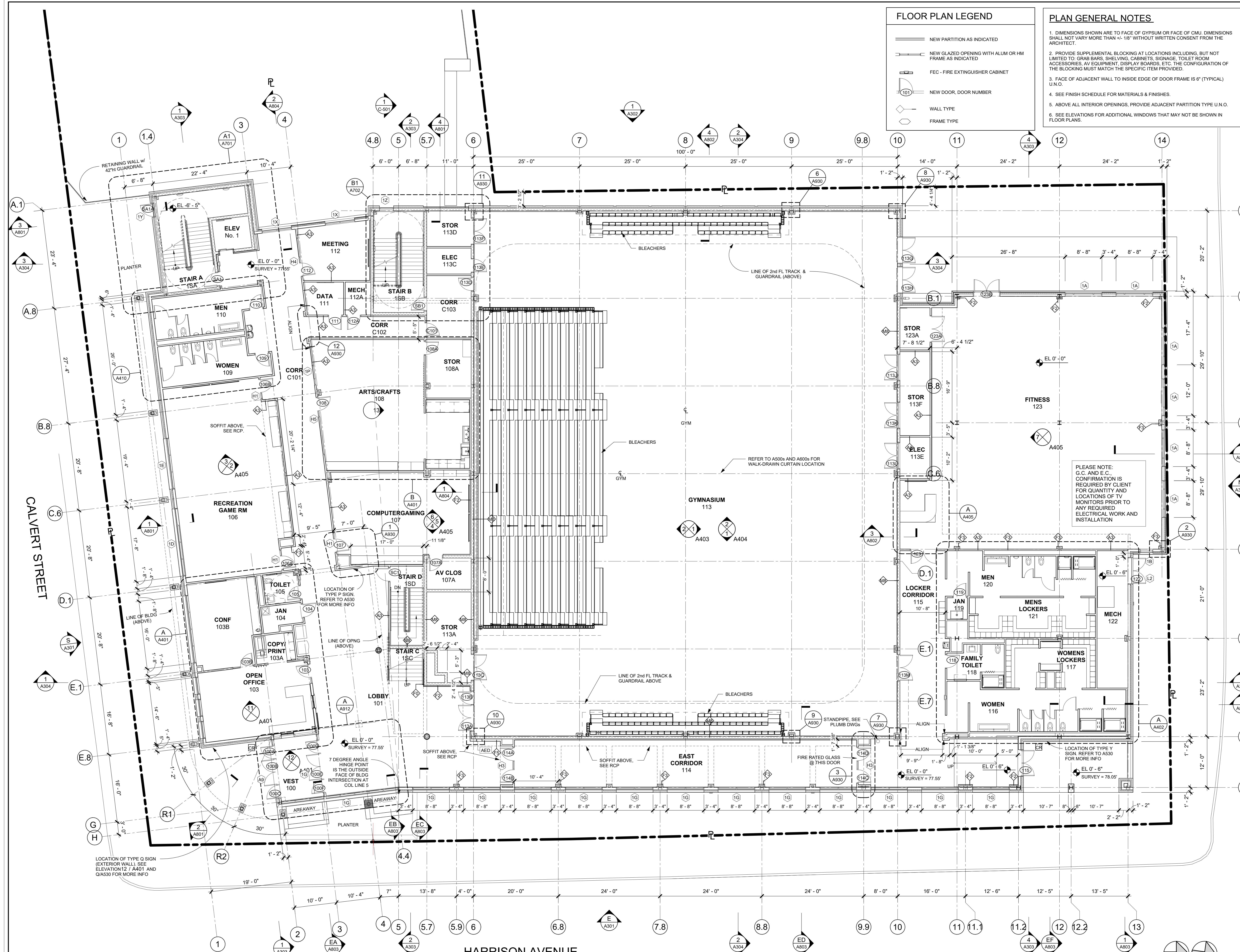


CONSTRUCTION DOCUMENTS

FLOOR PLAN LEGEND

- NEW PARTITION AS INDICATED
- NEW GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
- FEC - FIRE EXTINGUISHER CABINET
- NEW DOOR, DOOR NUMBER
- WALL TYPE
- FRAME TYPE

- PLAN GENERAL NOTES**
- DIMENSIONS SHOWN ARE TO FACE OF GYPSUM OR FACE OF CMU. DIMENSIONS SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
 - PROVIDE SUPPLEMENTAL BLOCKING AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: GRAB BARS, SHELVING, CABINETS, SIGNAGE, TOILET ROOM ACCESSORIES, AV EQUIPMENT, DISPLAY BOARDS, ETC. THE CONFIGURATION OF THE BLOCKING MUST MATCH THE SPECIFIC ITEM PROVIDED.
 - FACE OF ADJACENT WALL TO INSIDE EDGE OF DOOR FRAME IS 6" (TYPICAL) U.N.O.
 - SEE FINISH SCHEDULE FOR MATERIALS & FINISHES.
 - ABOVE ALL INTERIOR OPENINGS, PROVIDE ADJACENT PARTITION TYPE U.N.O.
 - SEE ELEVATIONS FOR ADDITIONAL WINDOWS THAT MAY NOT BE SHOWN IN FLOOR PLANS.



PLEASE NOTE: G.C. AND E.C. CONFIRMATION IS REQUIRED BY CLIENT FOR QUANTITY AND LOCATIONS OF TV MONITORS PRIOR TO ANY REQUIRED ELECTRICAL WORK AND INSTALLATION

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Professional Seal

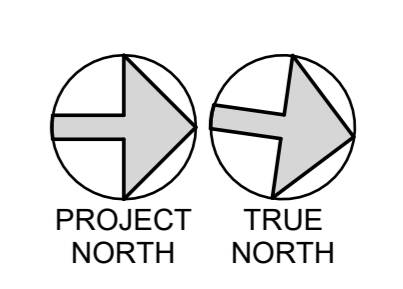
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| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title

1st FLOOR PLAN

| | | | |
|--------------|-------------|-----------------|------------|
| Job No. | 2020-1005 | Date | 03/31/2020 |
| Scale | AS NOTED | Drawn / Checked | - / - |
| Sheet Number | A202 | | |

1st FLOOR PLAN
1/8" = 1'-0"



HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS

GENERAL NOTES

- 101 DENOTES DOOR NUMBER SEE A911 FOR HARDWARE SET & INFO
- RW DENOTES RESCUE WINDOW SEE A514 & SPECS FOR MORE INFO
- DENOTES 1hr OR NON-RATED WALL SEE A901 FOR WALL INFO
- DENOTES 2hr RATED WALL SEE A901 FOR WALL INFO
- DENOTES WALL TYPE & FIRE RATING (WHERE SHOWN) SEE A901
- DENOTES HOLLOW METAL OR ALUM. FRAME - W/SIDELITE OR TRANSOM (SEE A902 & A903)
- FINISH SCHEDULE - SEE A501
- ALL CORRIDOR WALLS SHALL BE "TYPE 5" ON A901 (EVEN IF NOT TAGGED) U.N.O.
- UNTAGGED WALLS SHALL BE CONSIDERED "TYPE 1" ON A901 EXCEPT THAT CORRIDOR WALLS SHALL BE "TYPE 5"
- 1st & 2nd FL CORRIDOR WALLS SHALL HAVE WALL TILE PER THE FINISH SCHEDULE ON A501. REFER TO WALL "TYPE 5" ON A901 IN ADDITION TO THE WALL "TYPE 5" INDICATED WHICH IS TYPICAL (U.N.O.)
- AT THE BUILDING INTERIOR, ALL STEEL COLUMNS SHALL BE ENCASED W/ WALL TYPE F2 (FURRING) EVEN IF NOT SHOWN
- DIMENSIONS SHOWN FOR INTERIOR WALLS ARE: FACE OF CMU OR FACE OF CMU
- FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME IS 4" (TYP) U.N.O. (SEE DETAILS A, B & C ON A902)
- IT IS A REQUIREMENT OF THIS PROJECT THAT ALL WINDOW, DOOR, LOUVER AND ALL OTHER OPENINGS, PENETRATIONS INCLUDING DECK FLUTES IN THE BUILDING EXTERIOR SHALL HAVE THE SURROUNDING GAPS FOR SHIMS & LEVELING FILLED WITH BATT INSULATION STRIPS TO FORM A COMPLETE AIR INFILTRATION BARRIER. IN MANY CASES SMALL BITS & PIECES OF INSULATION WILL REQUIRE BEING FITTED INTO THESE GAPS AT HEAD, JAMBS & SILLS.
- 14A PRIOR TO CLOSURE OF SURROUNDING CONSTRUCTION THE G.C. SHALL PROVIDE THE ARCHITECT WITH ADEQUATE NOTICE FOR REVIEW OF ALL SUCH CONDITIONS.
- 14B NON-EXPANDING SPRAY FOAM FILLER MAY BE PERMISSIBLE FOR SEALING THE BUILDING PERIMETER, IF APPROVED BY THE ARCHITECT.

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| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Professional Seal

2nd FLOOR PLAN

Job No. 2020-1005 Date 01/10/19
Scale AS NOTED Drawn / Checked
Sheet Number

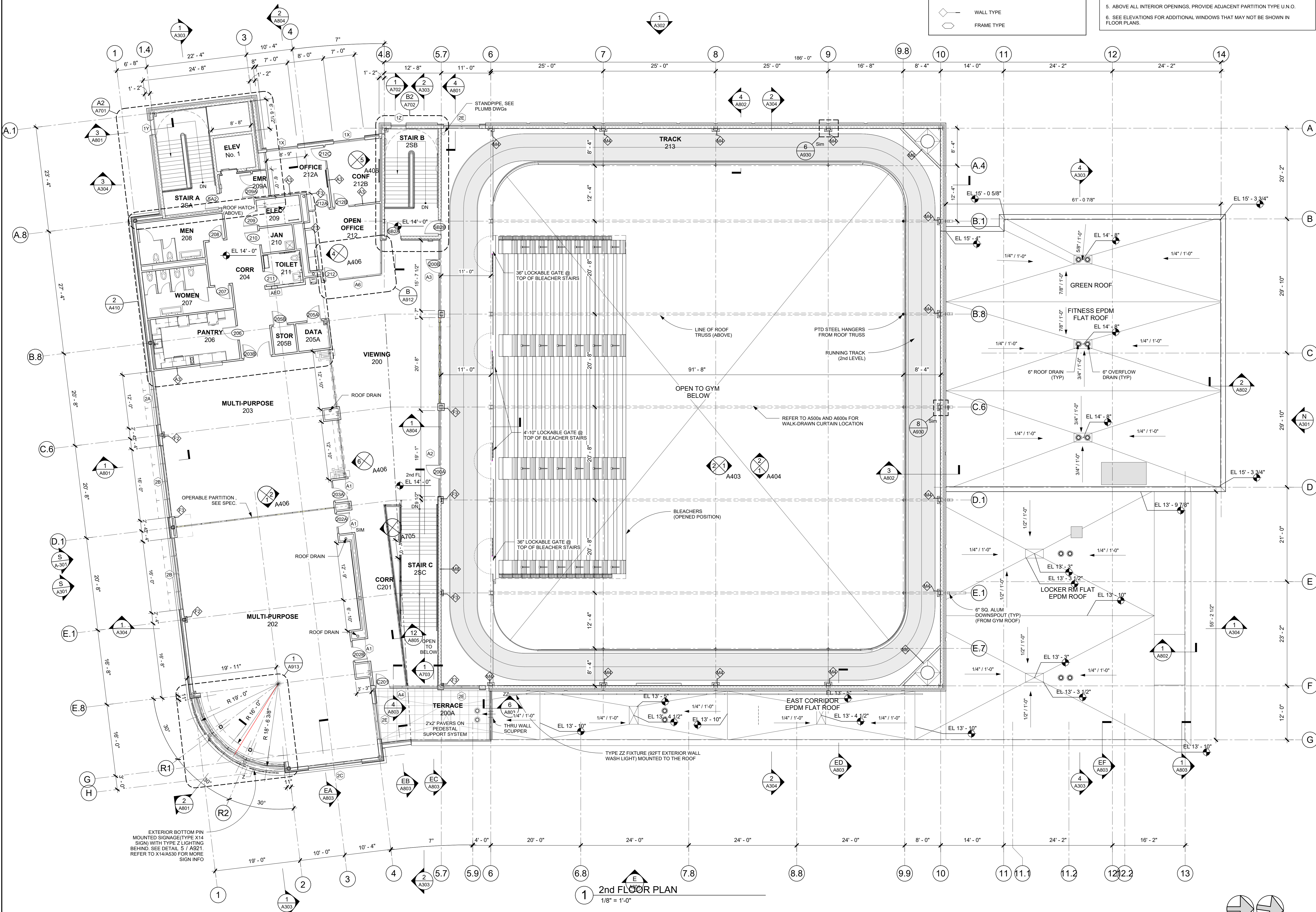
A203

FLOOR PLAN LEGEND

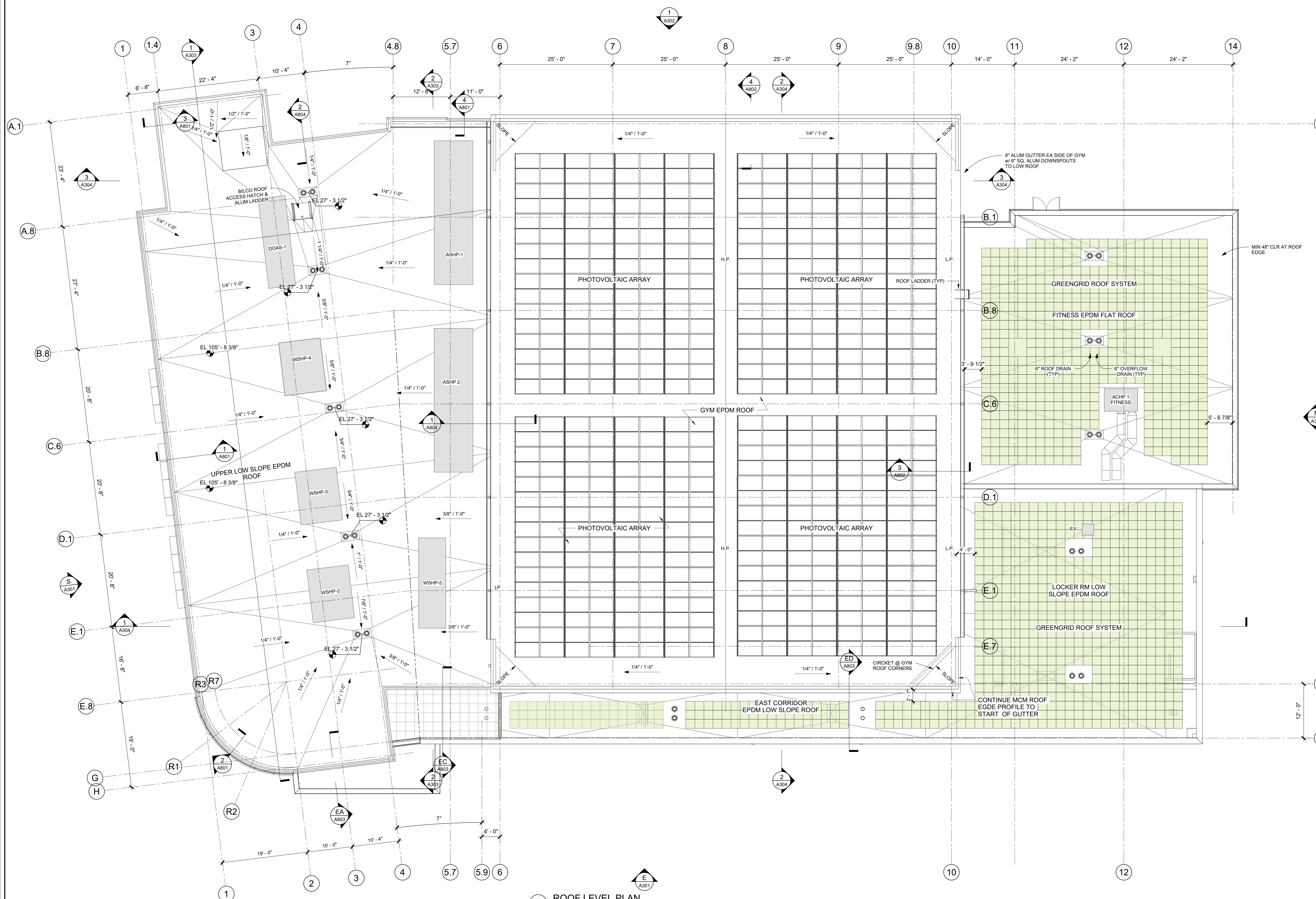
- NEW PARTITION AS INDICATED
- NEW GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
- FEC - FIRE EXTINGUISHER CABINET
- NEW DOOR, DOOR NUMBER
- WALL TYPE
- FRAME TYPE

PLAN GENERAL NOTES

1. DIMENSIONS SHOWN ARE TO FACE OF GYPSUM OR FACE OF CMU. DIMENSIONS SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
2. PROVIDE SUPPLEMENTAL BLOCKING AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: GRAB BARS, SHELVING, CABINETS, SIGNAGE, TOILET ROOM ACCESSORIES, AV EQUIPMENT, DISPLAY BOARDS, ETC. THE CONFIGURATION OF THE BLOCKING MUST MATCH THE SPECIFIC ITEM PROVIDED.
3. FACE OF ADJACENT WALL TO INSIDE EDGE OF DOOR FRAME IS 6" (TYPICAL) U.N.O.
4. SEE FINISH SCHEDULE FOR MATERIALS & FINISHES.
5. ABOVE ALL INTERIOR OPENINGS, PROVIDE ADJACENT PARTITION TYPE U.N.O.
6. SEE ELEVATIONS FOR ADDITIONAL WINDOWS THAT MAY NOT BE SHOWN IN FLOOR PLANS.



2nd FLOOR PLAN
1/8" = 1'-0"



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

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UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHALL BE IN FEET AND INCHES. DIMENSIONS SHALL BE GIVEN TO THE CENTERLINE UNLESS OTHERWISE SPECIFIED. DIMENSIONS SHALL BE GIVEN TO THE FACE UNLESS OTHERWISE SPECIFIED. DIMENSIONS SHALL BE GIVEN TO THE CENTERLINE UNLESS OTHERWISE SPECIFIED. DIMENSIONS SHALL BE GIVEN TO THE FACE UNLESS OTHERWISE SPECIFIED.

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| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

No. Date Issue

Sheet Title

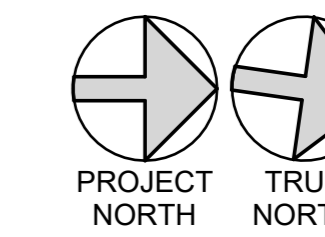
ROOF LEVEL PLAN

Job No. 2020-1005 Date 03/31/2020

Scale AS NOTED Drawn / Checked

Sheet Number

A204

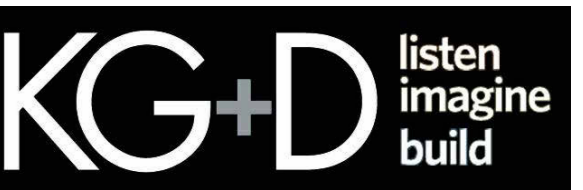


**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

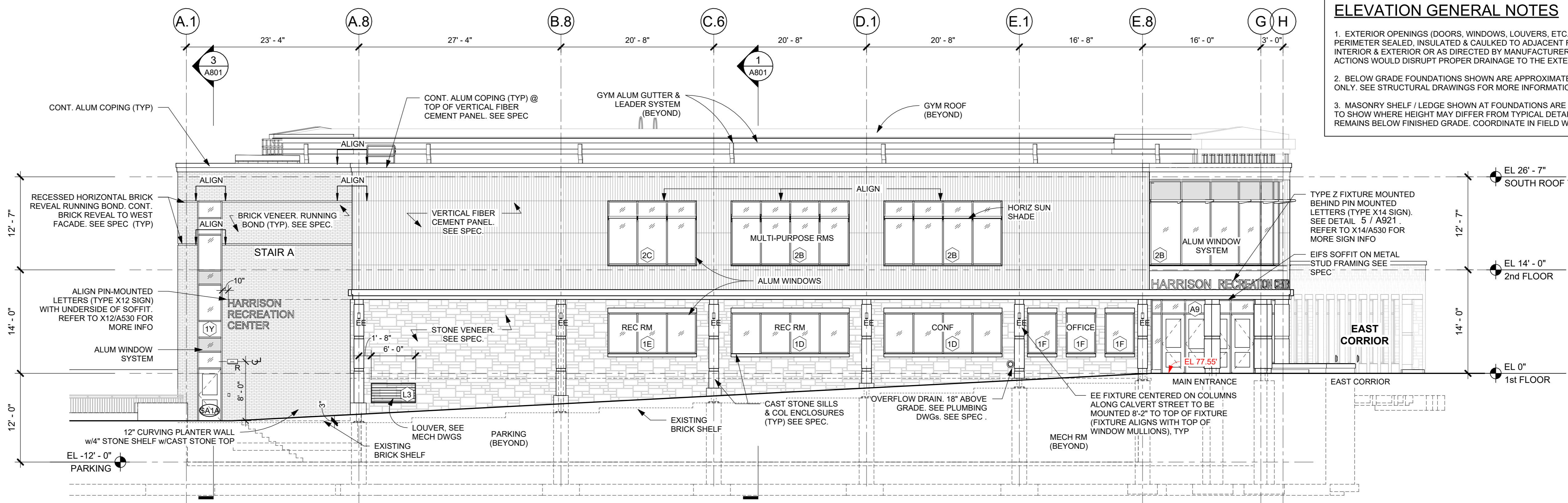


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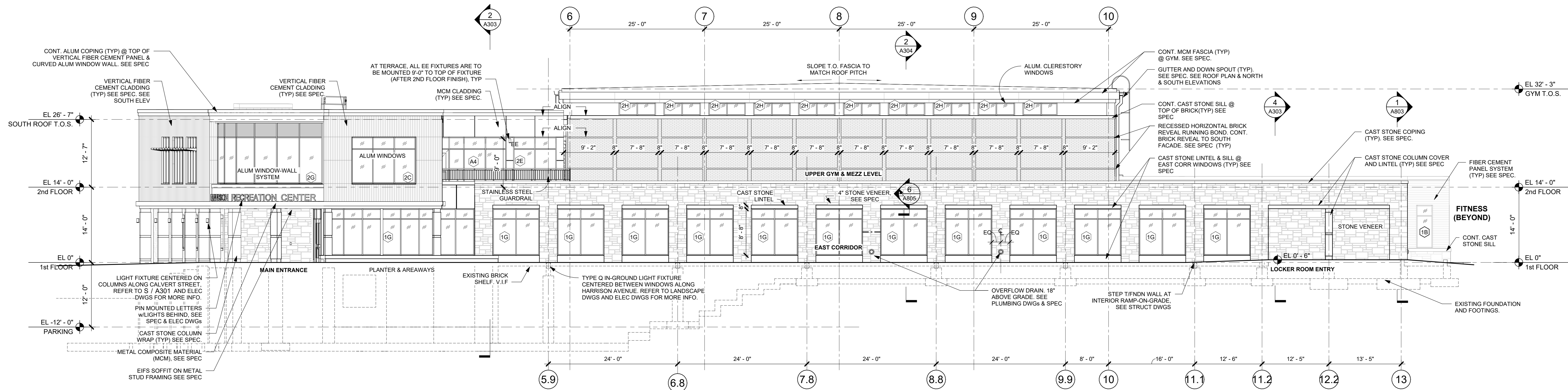
CONSTRUCTION DOCUMENTS

ELEVATION GENERAL NOTES

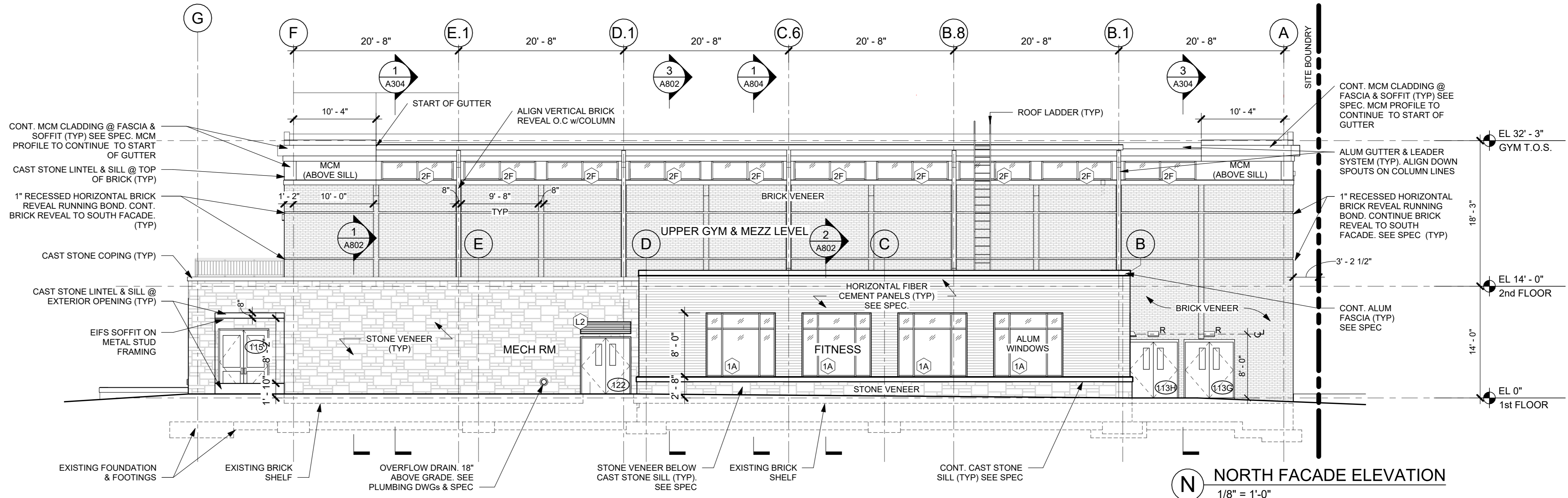
- EXTERIOR OPENINGS (DOORS, WINDOWS, LOUVERS, ETC.) SHALL BE FULLY PERIMETER SEALED, INSULATED & CAULKED TO ADJACENT FINISH SURFACES BOTH INTERIOR & EXTERIOR OR AS DIRECTED BY MANUFACTURER, EXCEPT WHERE SUCH ACTIONS WOULD DISRUPT PROPER DRAINAGE TO THE EXTERIOR.
- BELOW GRADE FOUNDATIONS SHOWN ARE APPROXIMATE & FOR REFERENCE ONLY. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- MASONRY SHELF / LEDGE SHOWN AT FOUNDATIONS ARE APPROXIMATE. INTENT IS TO SHOW WHERE HEIGHT MAY DIFFER FROM TYPICAL DETAILS SUCH THAT MASONRY REMAINS BELOW FINISHED GRADE. COORDINATE IN FIELD WITH FINAL GRADING.



S SOUTH FACADE ELEVATION
1/8" = 1'-0"



E EAST FACADE ELEVATION
1/8" = 1'-0"



N NORTH FACADE ELEVATION
1/8" = 1'-0"

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| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title

**EXTERIOR
ELEVATIONS**

Job No. 2020-1005 Date 03/31/2020

Scale AS NOTED Drawn / Checked

Sheet Number

A301

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

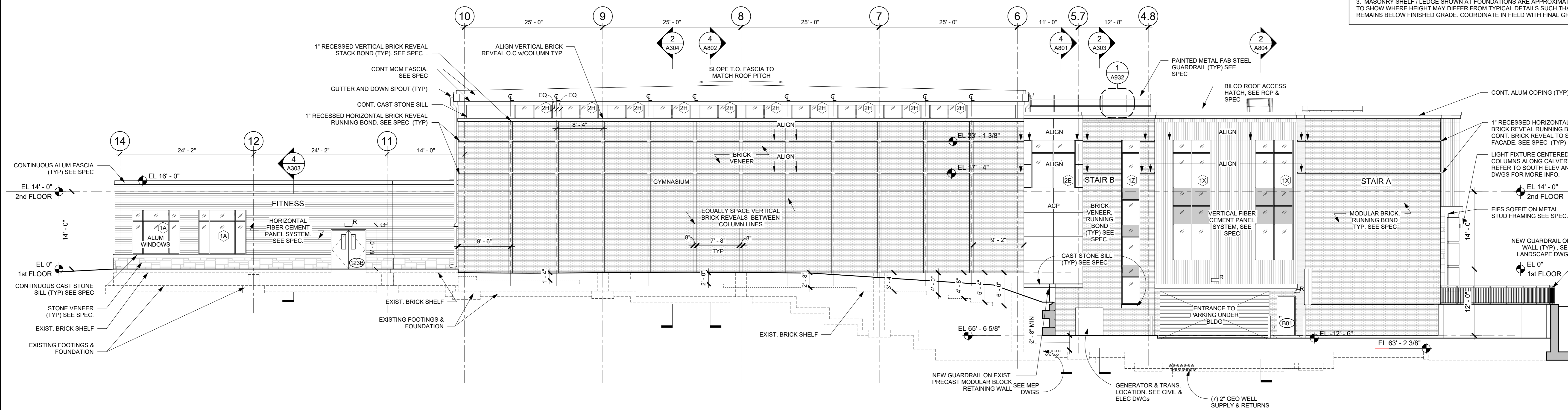
270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS

ELEVATION GENERAL NOTES

1. EXTERIOR OPENINGS (DOORS, WINDOWS, LOUVERS, ETC.) SHALL BE FULLY PERIMETER SEALED, INSULATED & CAULKED TO ADJACENT FINISH SURFACES BOTH INTERIOR & EXTERIOR OR AS DIRECTED BY MANUFACTURER, EXCEPT WHERE SUCH ACTIONS WOULD DISRUPT PROPER DRAINAGE TO THE EXTERIOR.
2. BELOW GRADE FOUNDATIONS SHOWN ARE APPROXIMATE & FOR REFERENCE ONLY. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
3. MASONRY SHELF / LEDGE SHOWN AT FOUNDATIONS ARE APPROXIMATE. INTENT IS TO SHOW WHERE HEIGHT MAY DIFFER FROM TYPICAL DETAILS SUCH THAT MASONRY REMAINS BELOW FINISHED GRADE. COORDINATE IN FIELD WITH FINAL GRADING.



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| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title

**EXTERIOR
ELEVATIONS**

Job No. 2020-1005 Date 05/01/2023

Scale AS NOTED Drawn / Checked - -

Sheet Number

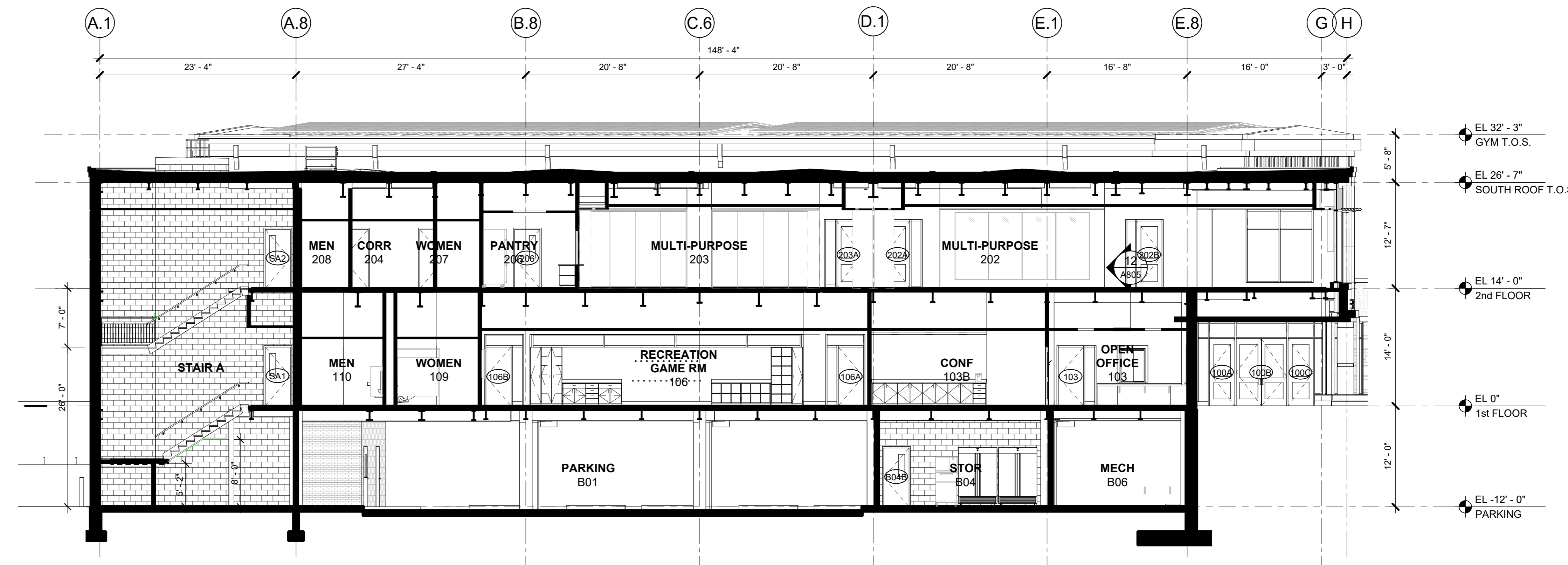
A302

**HARRISON
RECREATION &
COMMUNITY
CENTER**

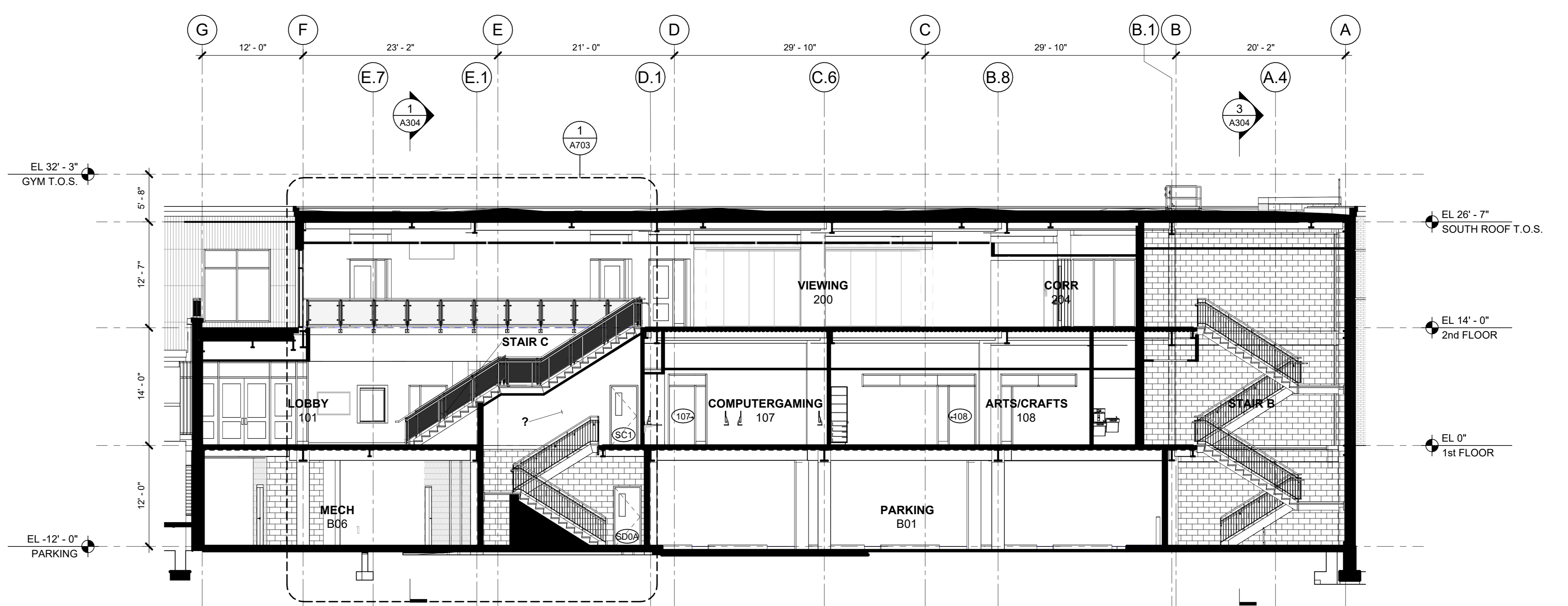
New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528



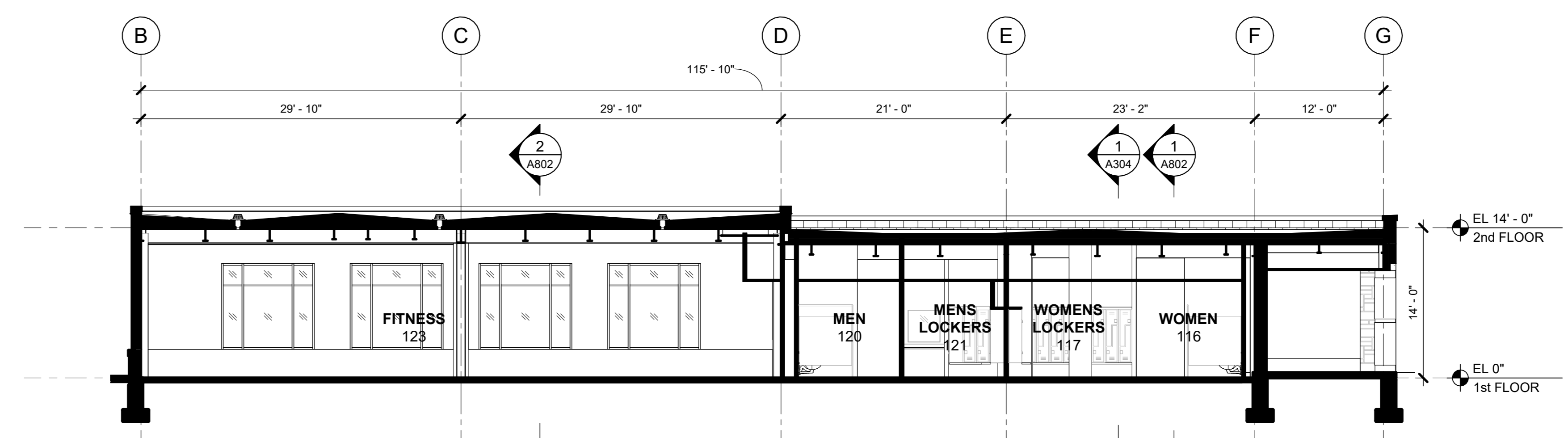
CONSTRUCTION DOCUMENTS



1 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"



2 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"



4 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"

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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

**BUILDING
SECTIONS**

Job No. 2020-1005 Date 03/31/2020
Scale AS NOTED Drawn / Checked - -

Sheet Number
A303

HARRISON RECREATION & COMMUNITY CENTER

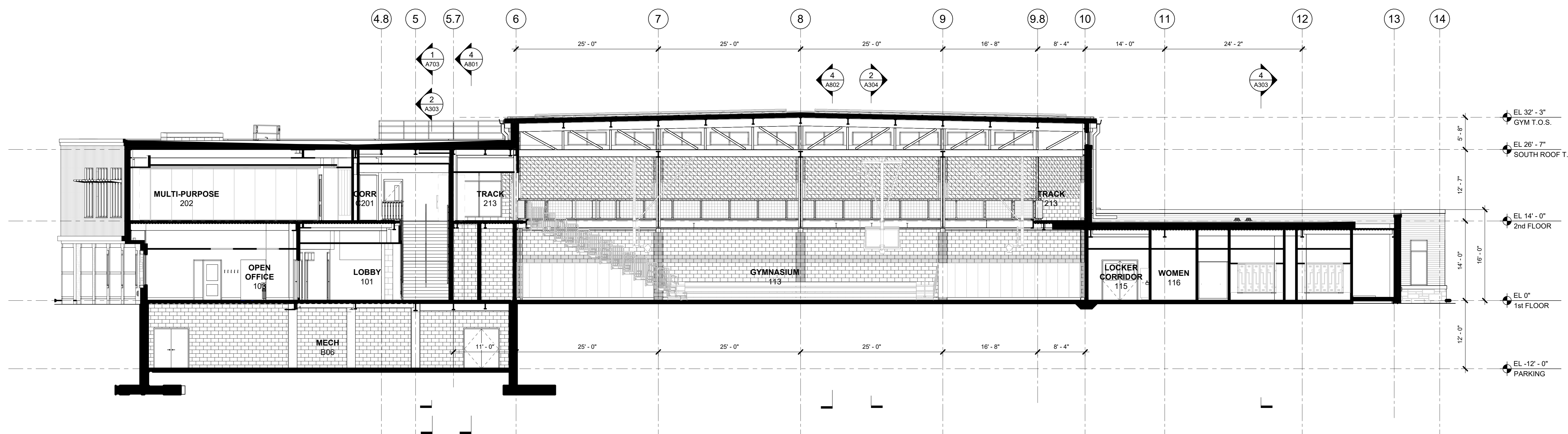
New Construction - Phase 2

Town / Village of Harrison

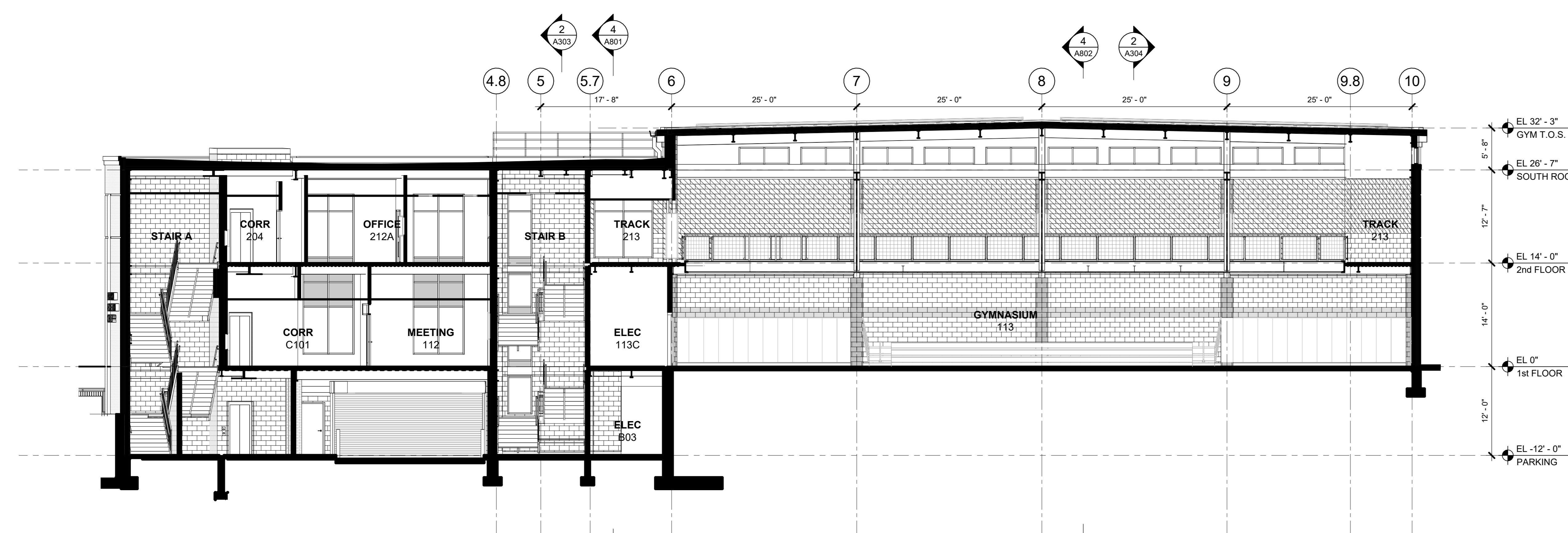
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Harrison, NY 10528

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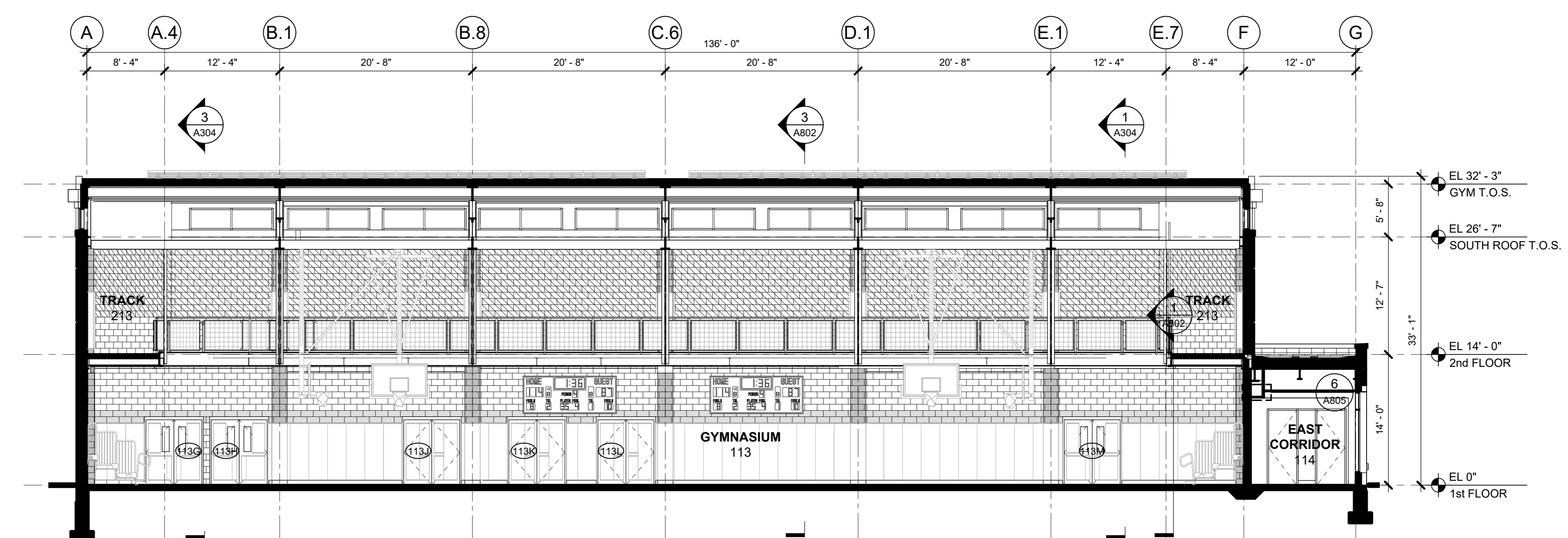
CONSTRUCTION DOCUMENTS



1 BUILDING SECTION N-S LOOKING WEST
1/8" = 1'-0"



3 BUILDING SECTION N-S LOOKING WEST
1/8" = 1'-0"



2 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"

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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title

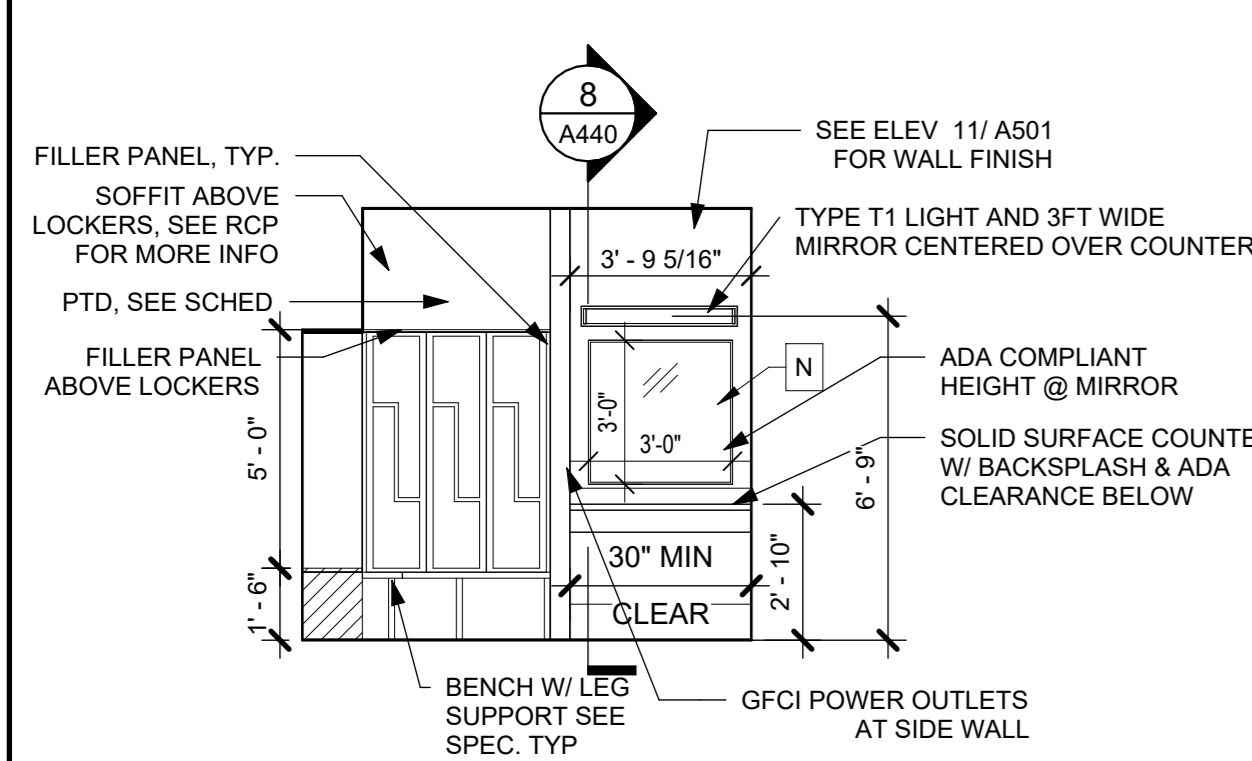
BUILDING SECTIONS

Job No. 2020-1005 Date 06/01/2020

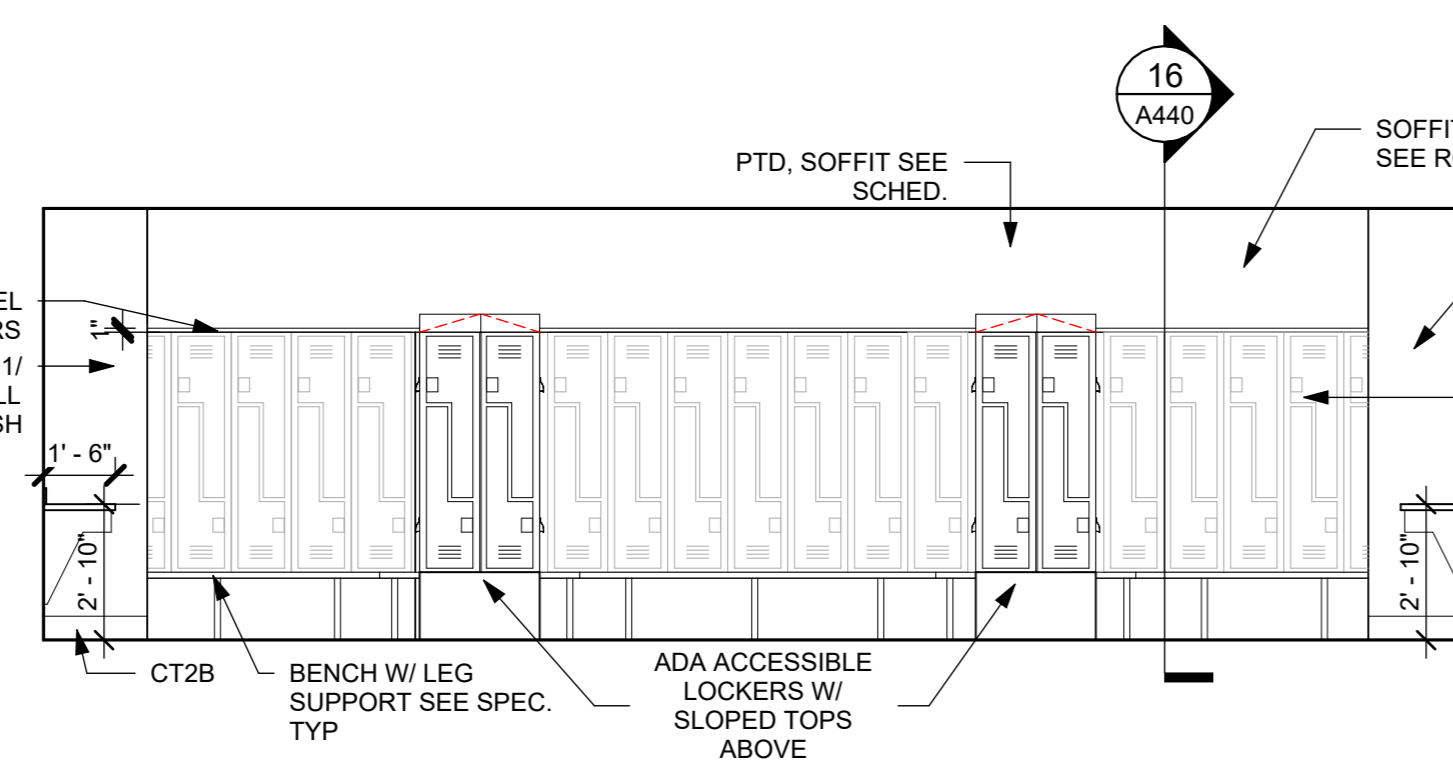
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Sheet Number

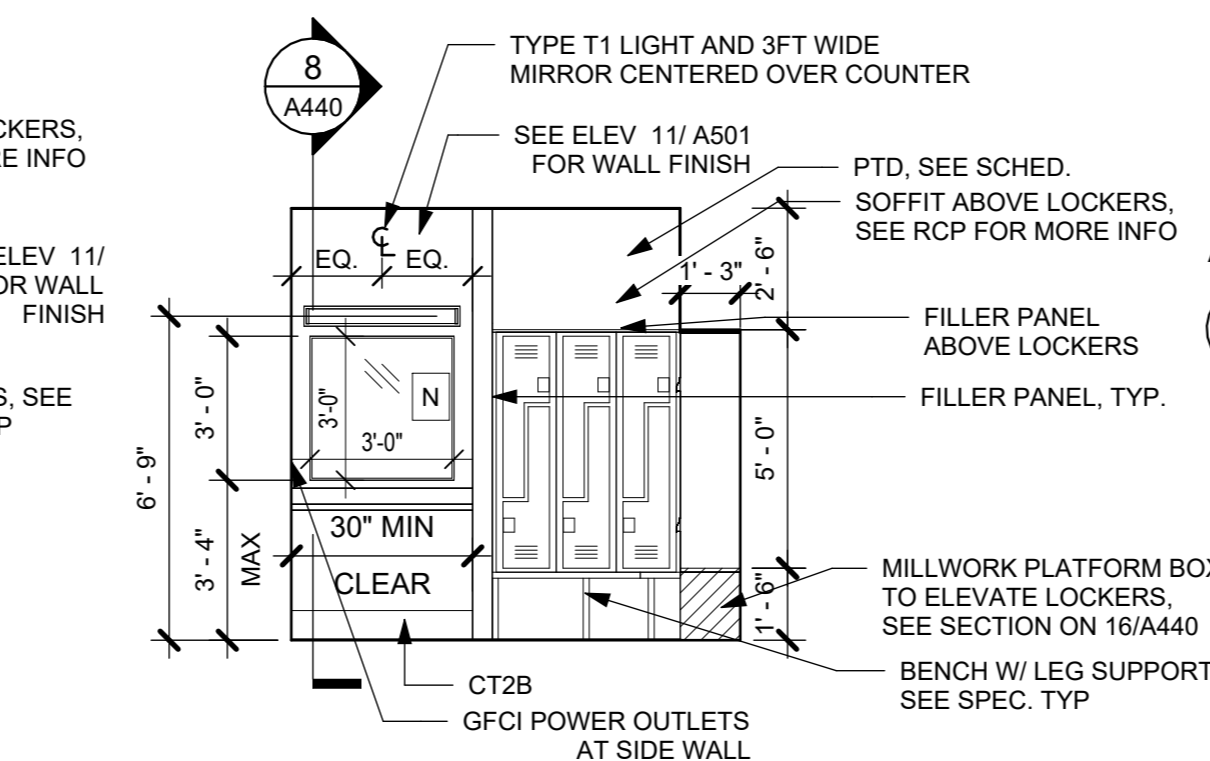
A304



3 MENS LOCKER ROOM - SOUTH ELEVATION
1/4" = 1'-0"

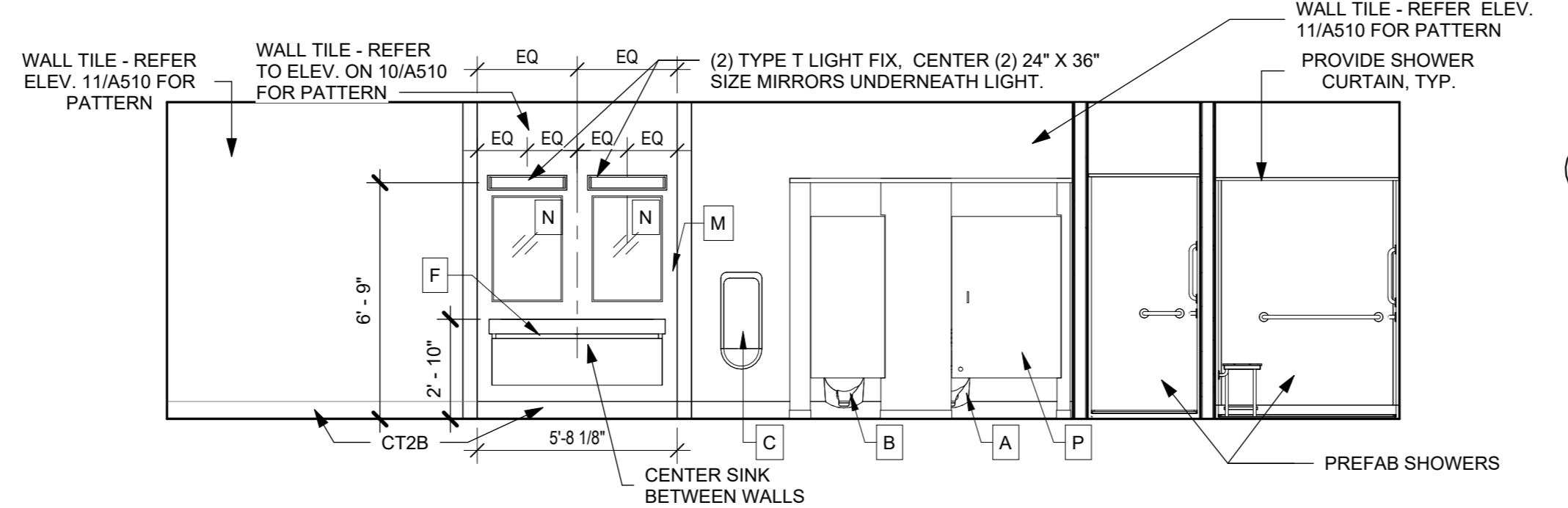


2 MENS LOCKER ROOM - EASTER ELEVATION
1/4" = 1'-0"

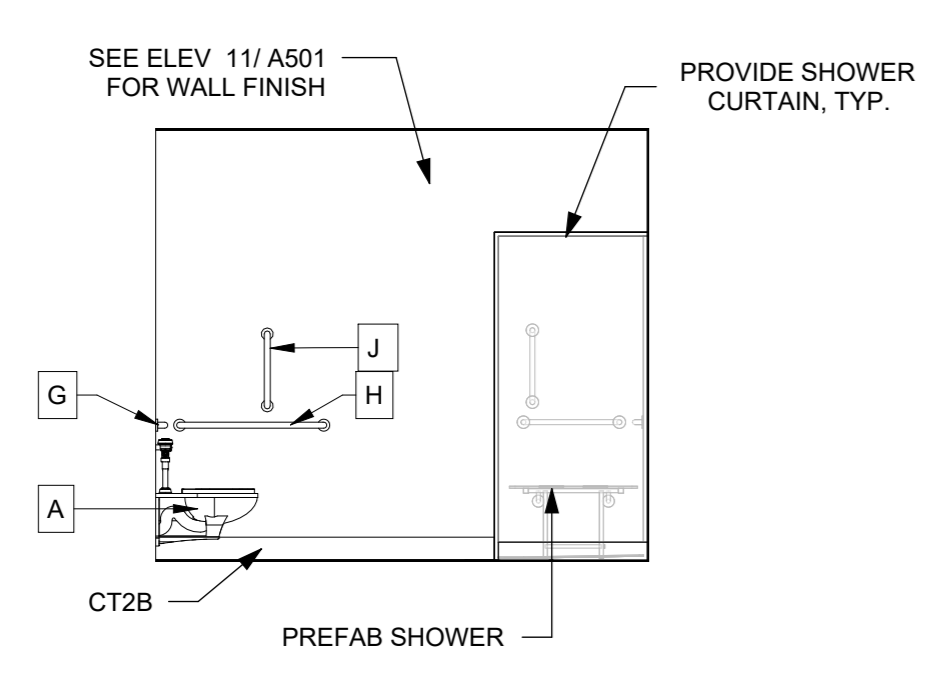


1 MENS LOCKER ROOM - NORTH ELEVATION
1/4" = 1'-0"

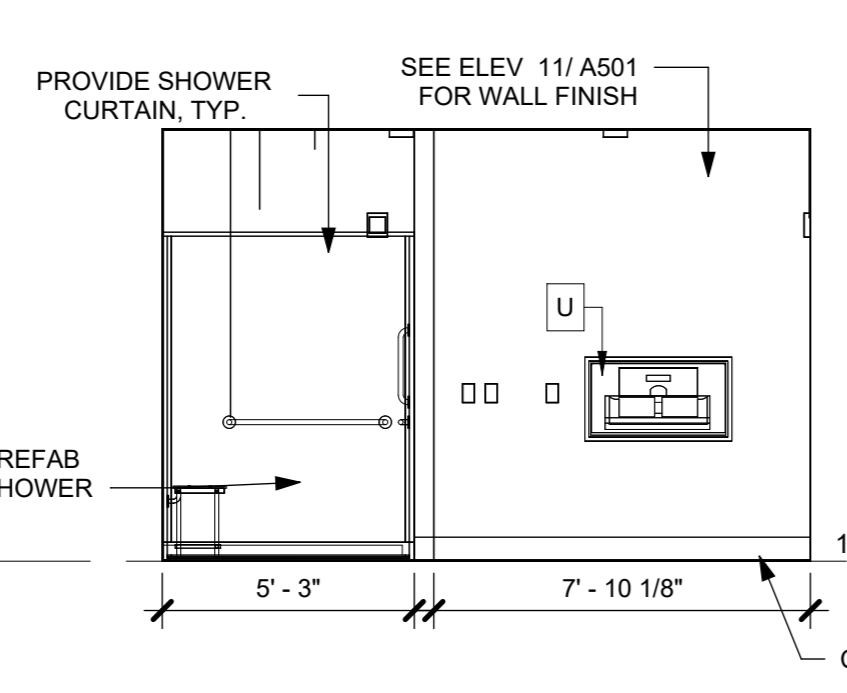
NOTE: REFER TO SHEET 3/A410 FOR TOILET ROOM FIXTURE, ACCESSORIES HEIGHT LEGEND.



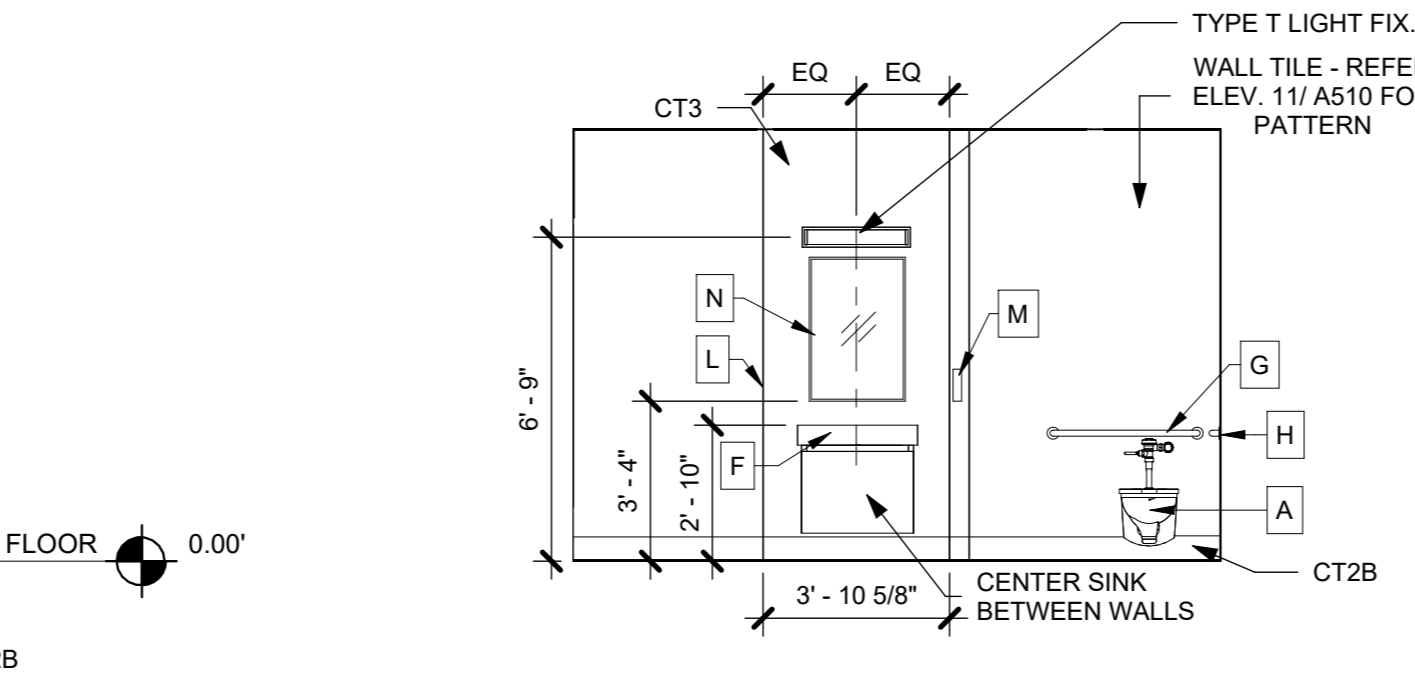
4 MEN 120 - WEST ELEVATION
1/4" = 1'-0"



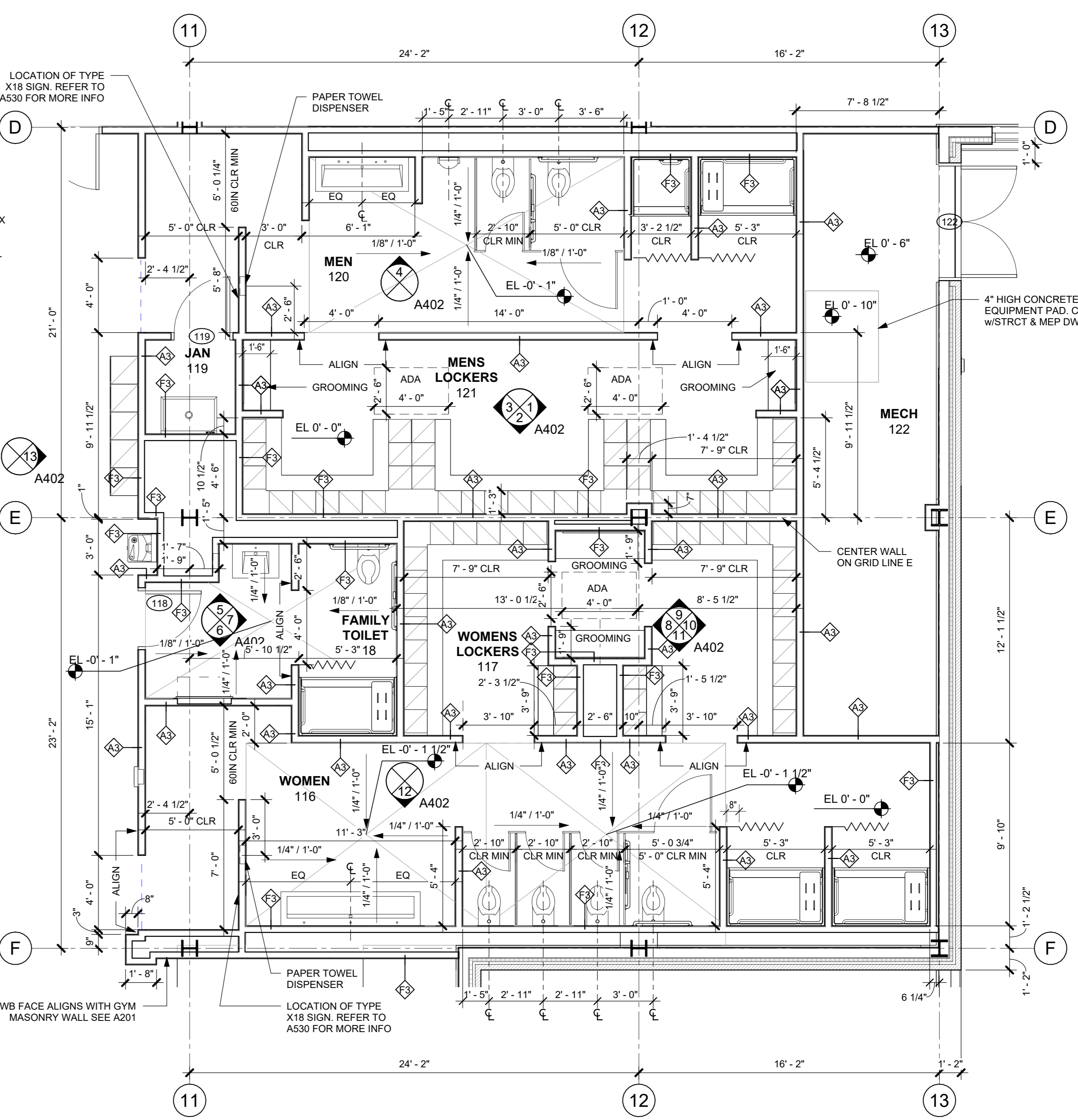
7 TOILET 118 - NORTH ELEVATION
1/4" = 1'-0"



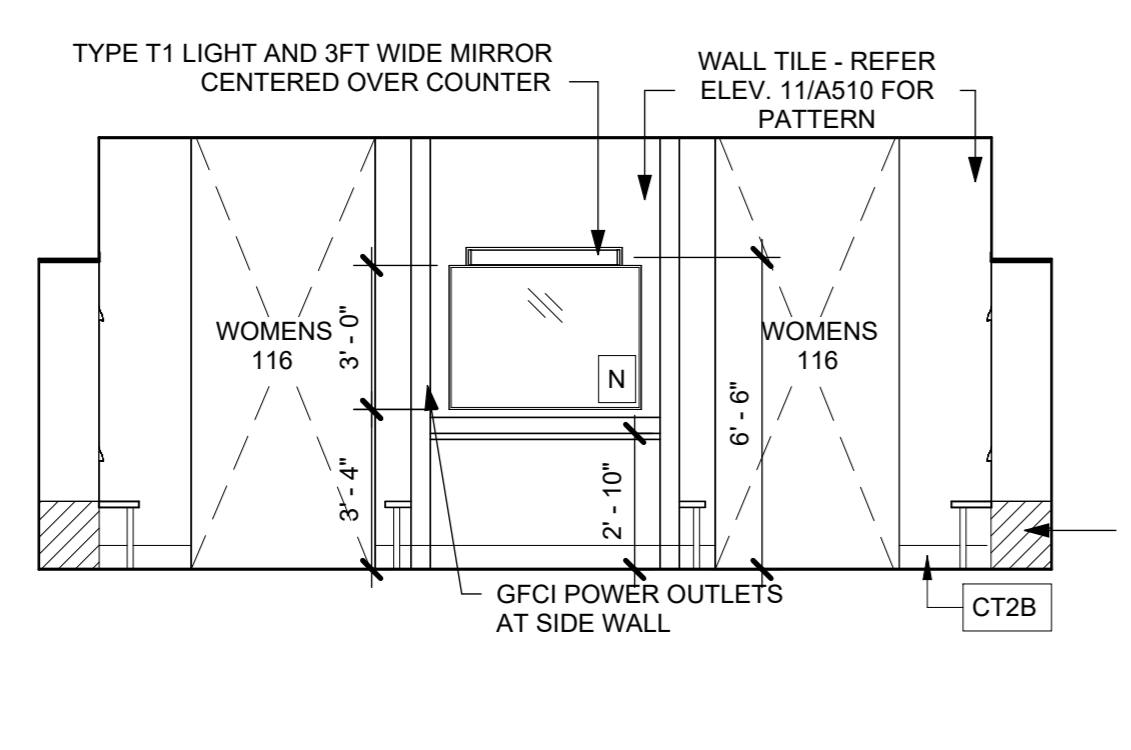
6 TOILET 118 - EAST ELEVATION
1/4" = 1'-0"



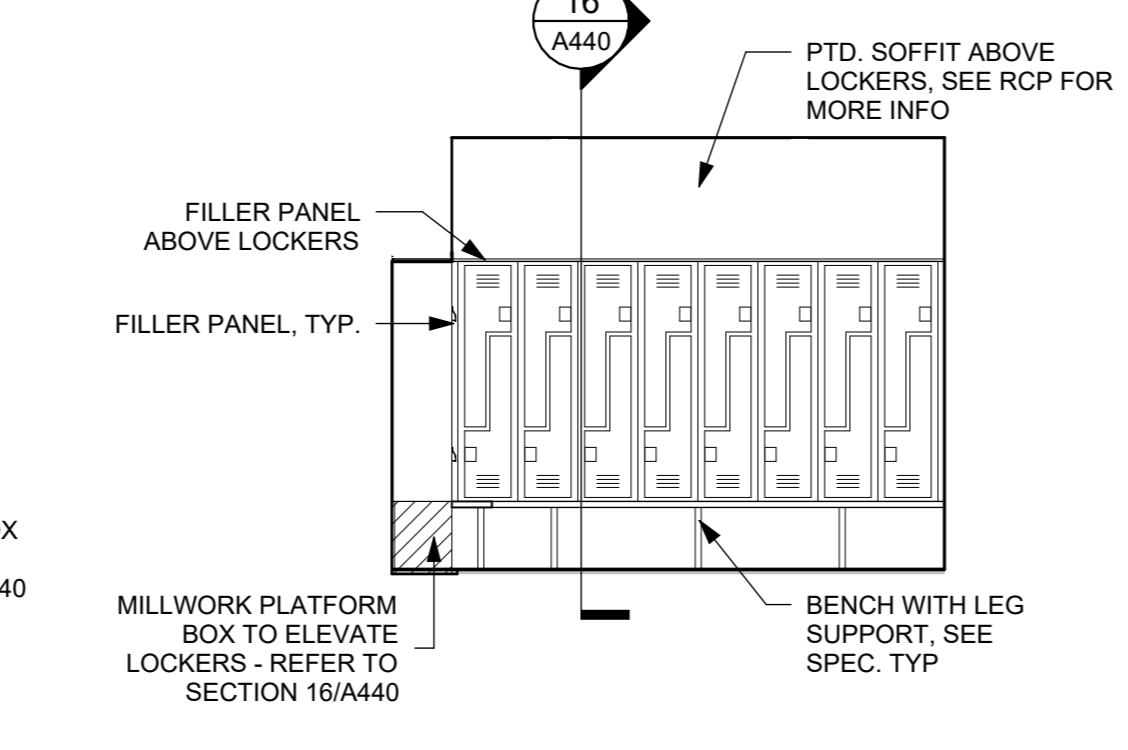
5 TOILET 118 - WEST ELEVATION
1/4" = 1'-0"



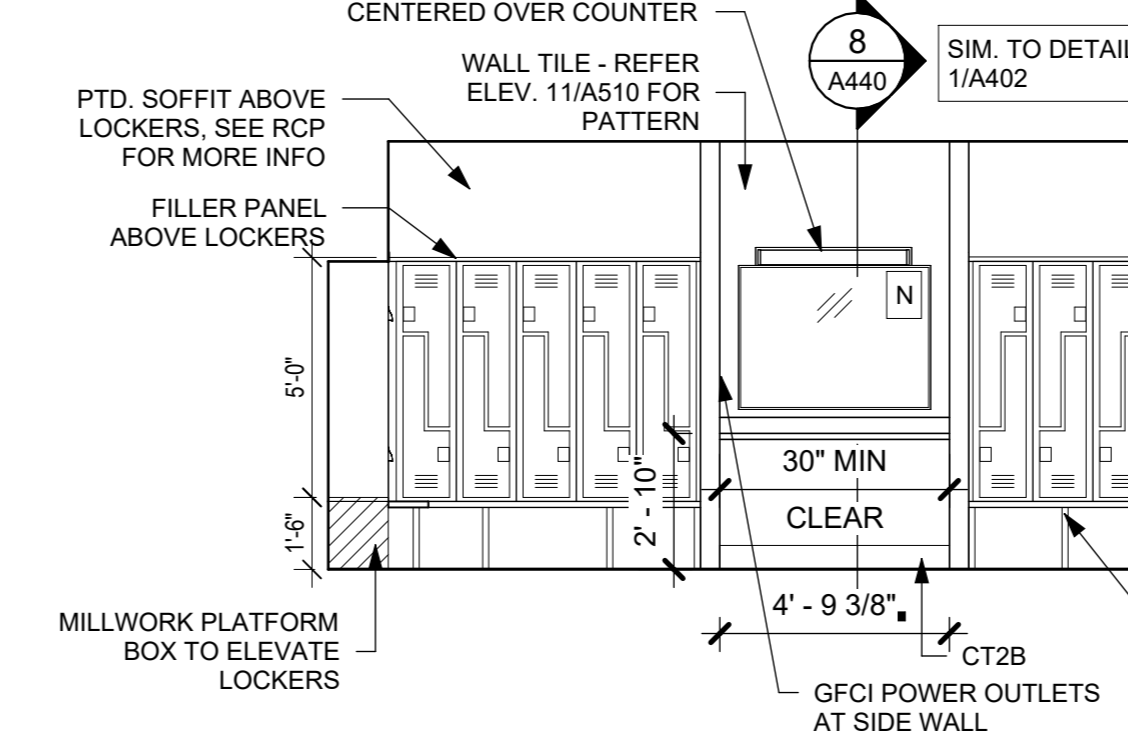
A LOCKER ROOMS ENLARGED PLAN
1/4" = 1'-0"



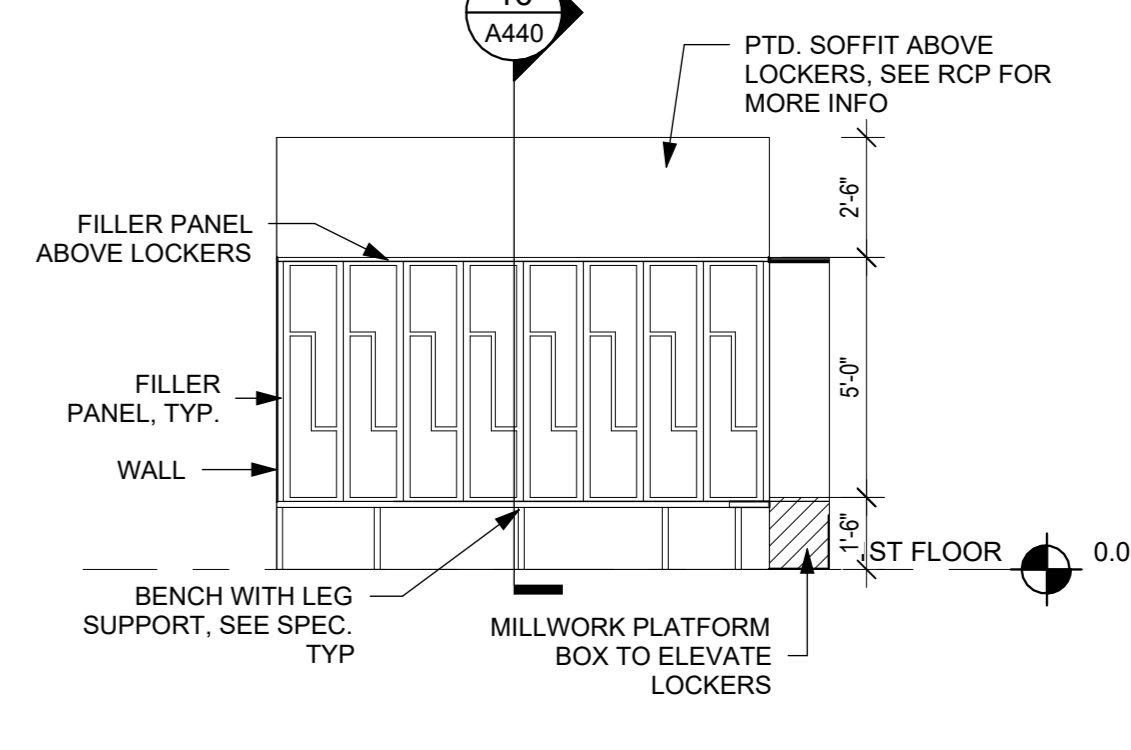
11 WOMENS LOCKER ROOM - EAST ELEVATION
1/4" = 1'-0"



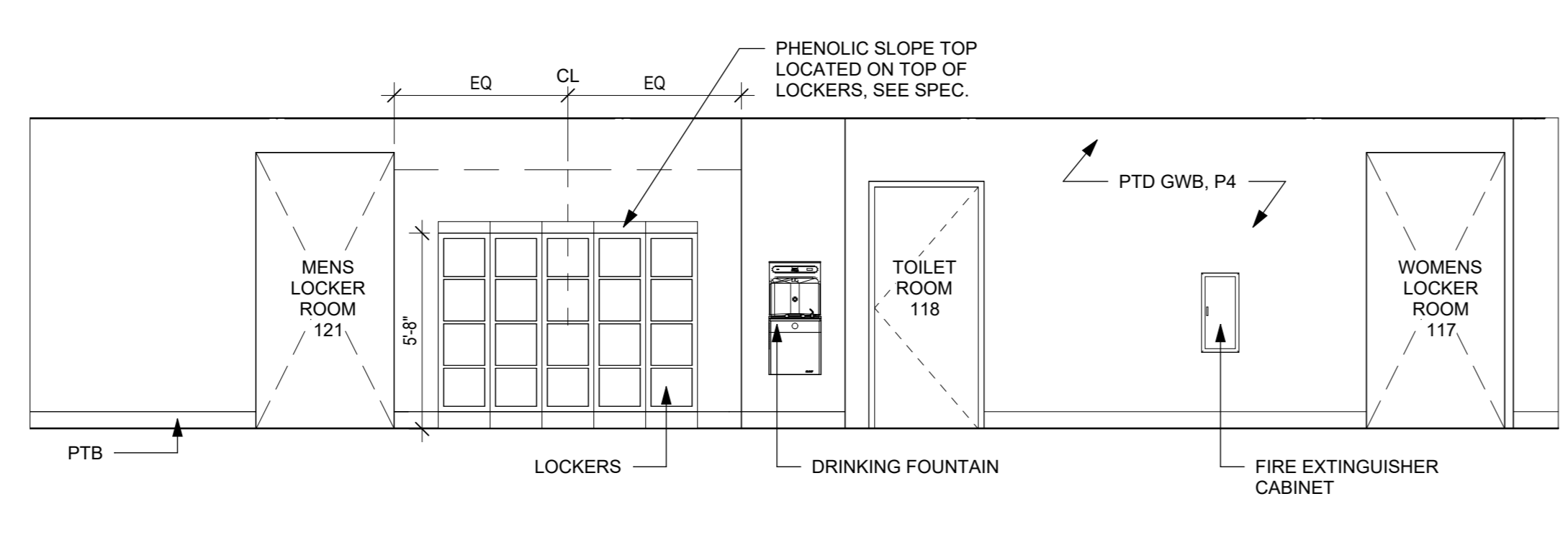
10 WOMENS LOCKER ROOM - NORTH ELEVATION
1/4" = 1'-0"



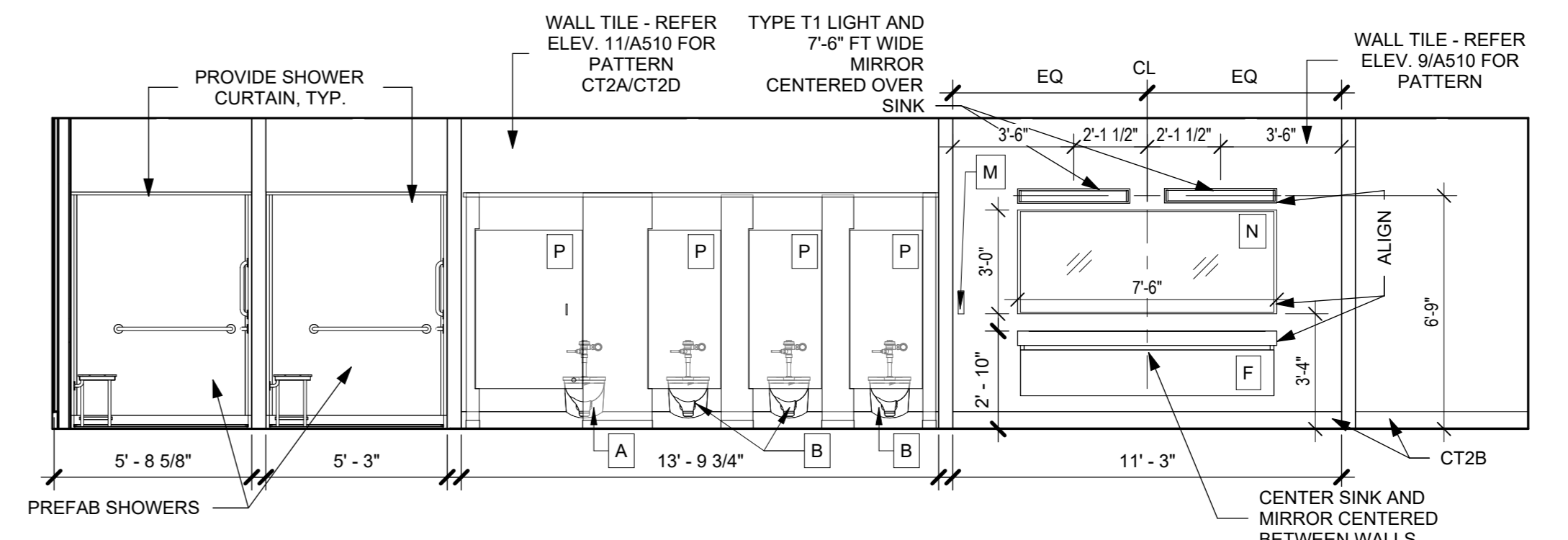
9 WOMENS LOCKER ROOM - WEST ELEVATION
1/4" = 1'-0"



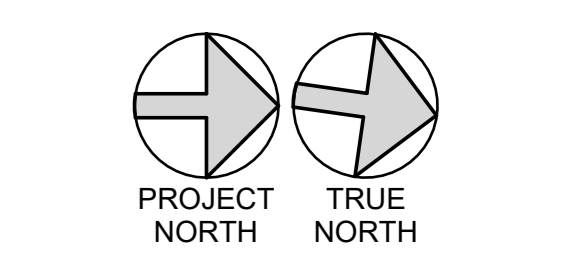
8 WOMENS LOCKER ROOM - SOUTH ELEVATION
1/4" = 1'-0"



13 LOCKER CORRIDOR 115 - NORTH ELEVATION
1/4" = 1'-0"



12 WOMENS 116 - EAST ELEVATION
1/4" = 1'-0"



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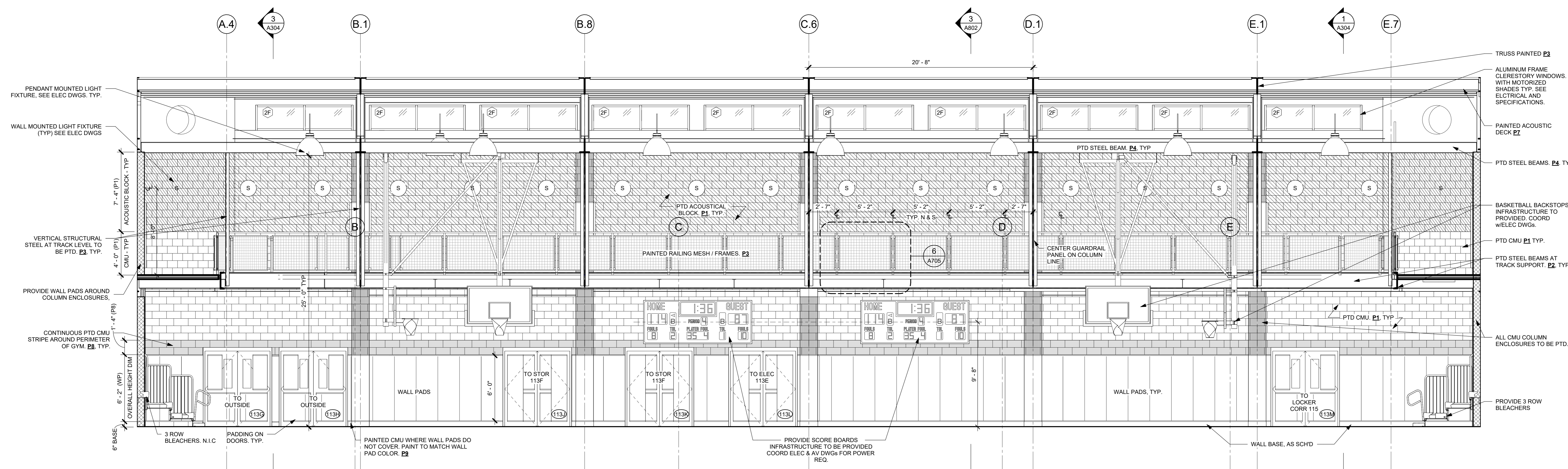
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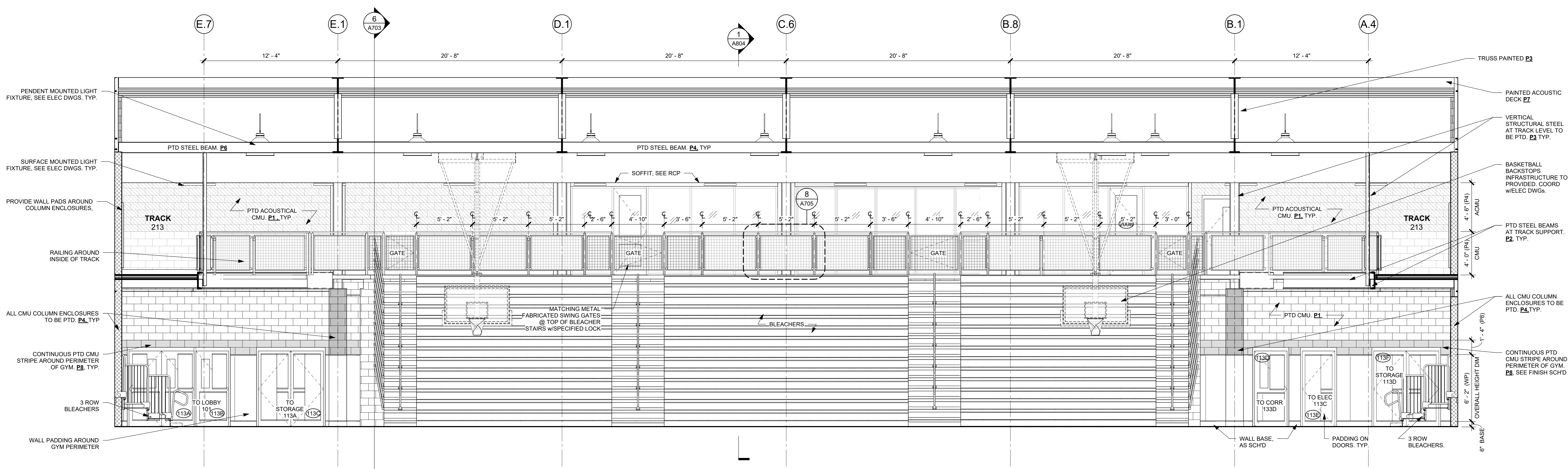
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LOCKER ROOM ENLARGED PLANS & INTERIOR ELEVATIONS

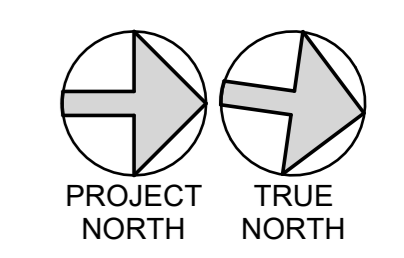
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| Job No. | 2020-1005 | Date | 03/31/2020 |
| Scale | AS NOTED | Drawn / Checked | - / - |
| Sheet Number | A402 | | |



1 GYMNASIUM NORTH ELEVATION
1/4" = 1'-0"



2 GYMNASIUM SOUTH ELEVATION
1/4" = 1'-0"



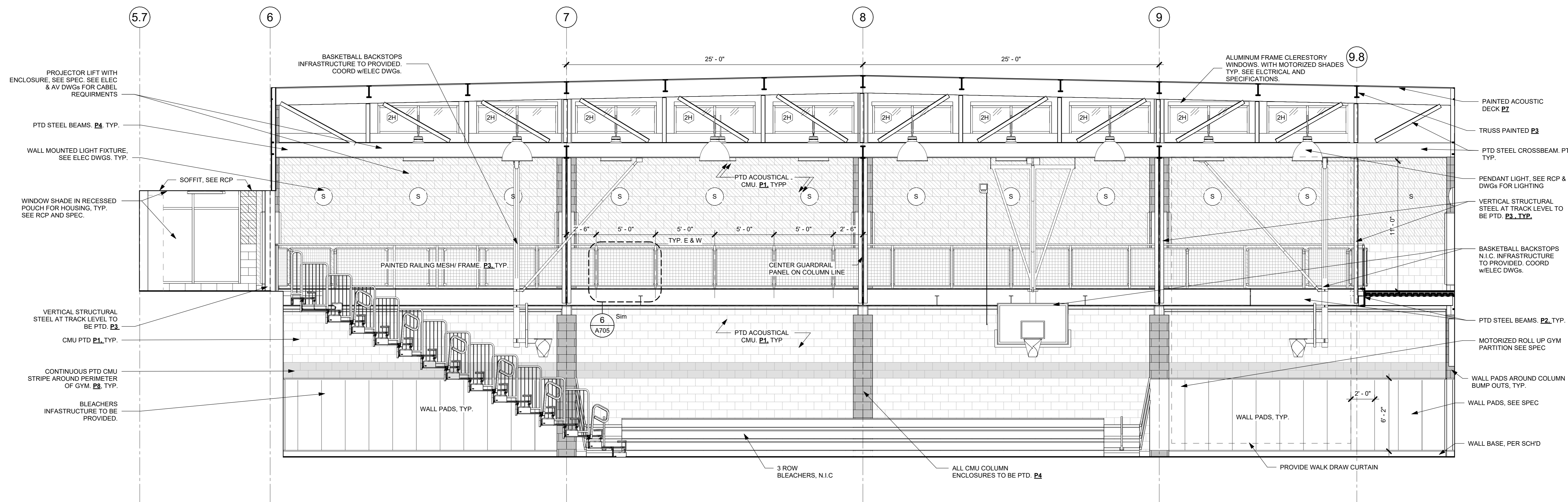
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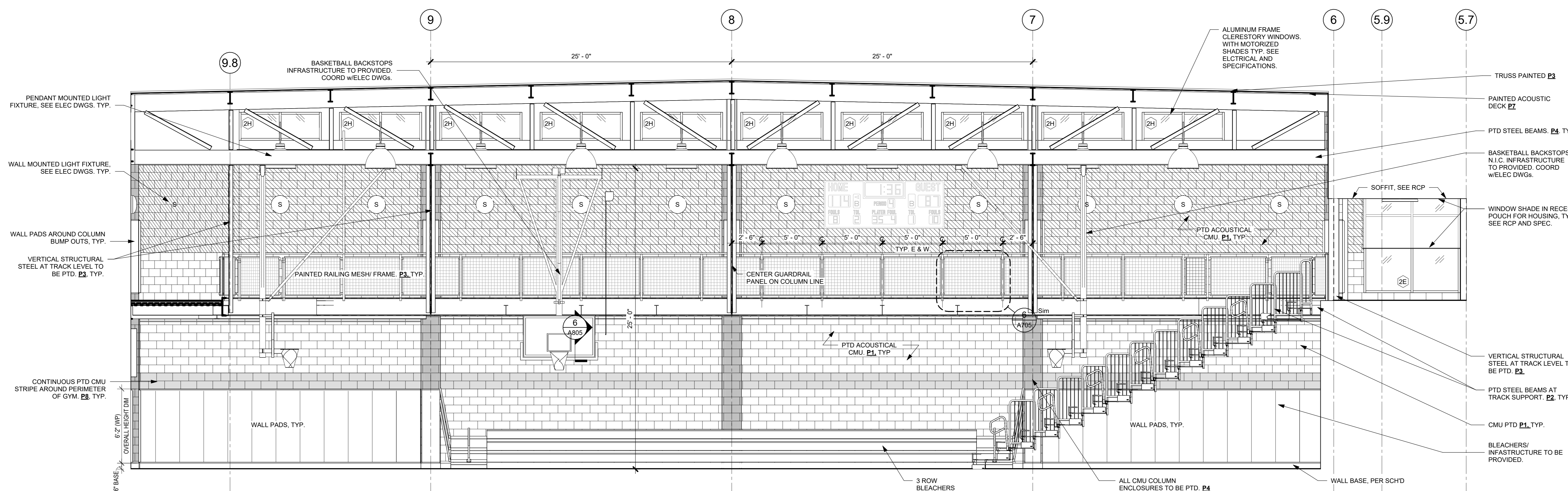
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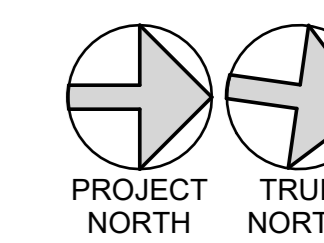
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2 GYMNASIUM WEST ELEVATION
1/4" = 1'-0"



1 GYMNASIUM EAST ELEVATION
1/4" = 1'-0"



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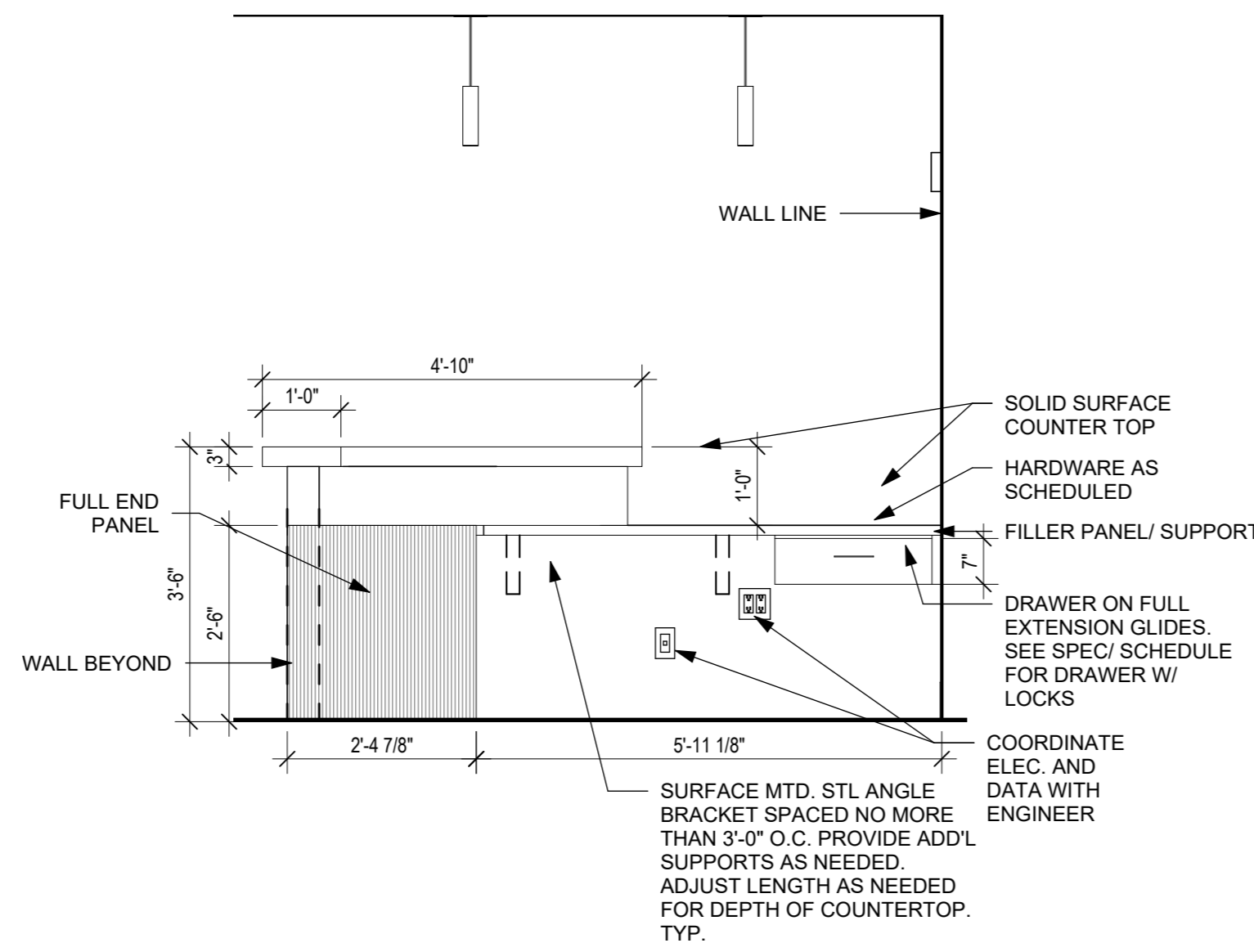
**GYMNASIUM
INTERIOR
ELEVATIONS**

Job No. 2020-1005 Date 12/18/23

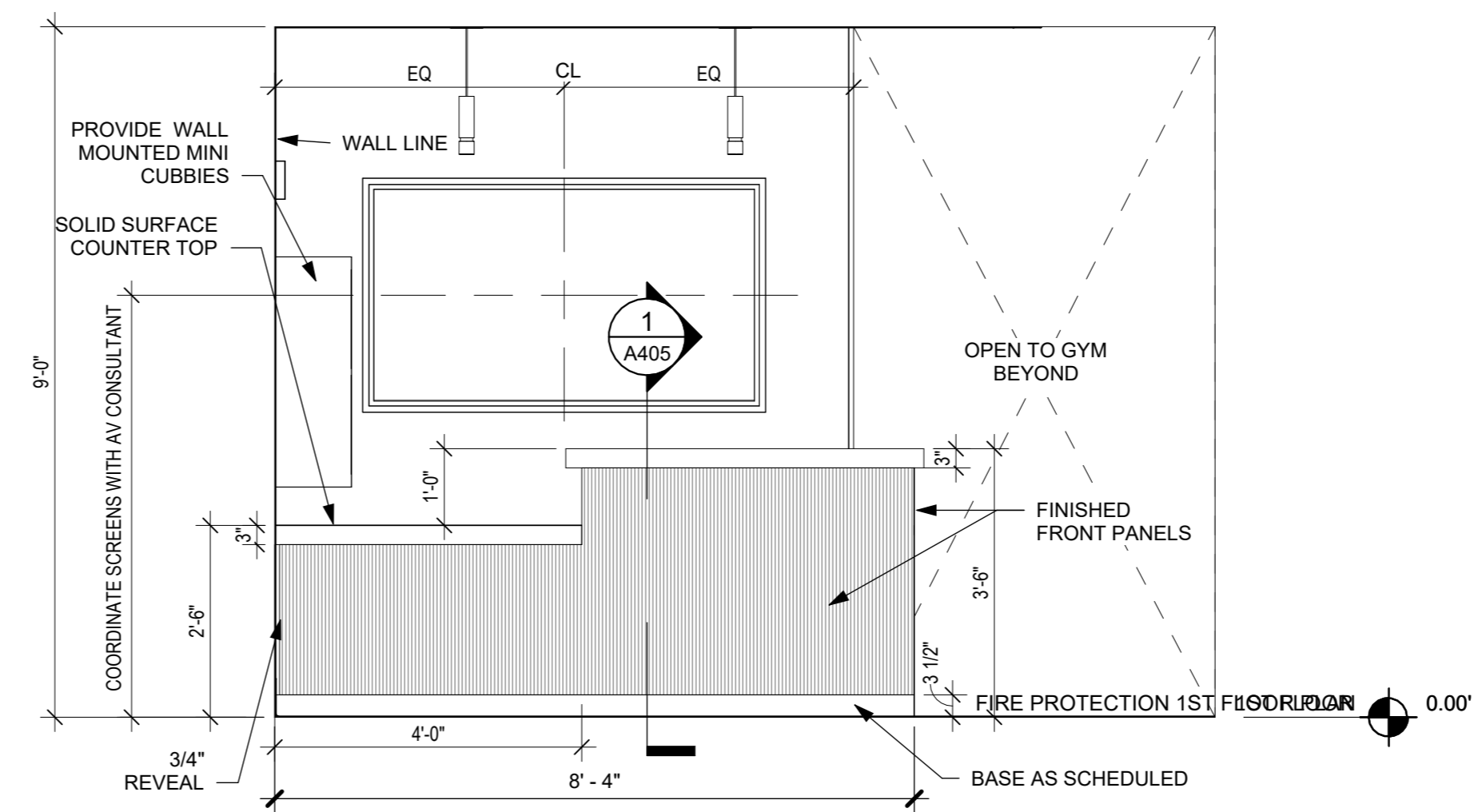
Scale AS NOTED Drawn / Checked Author Checker

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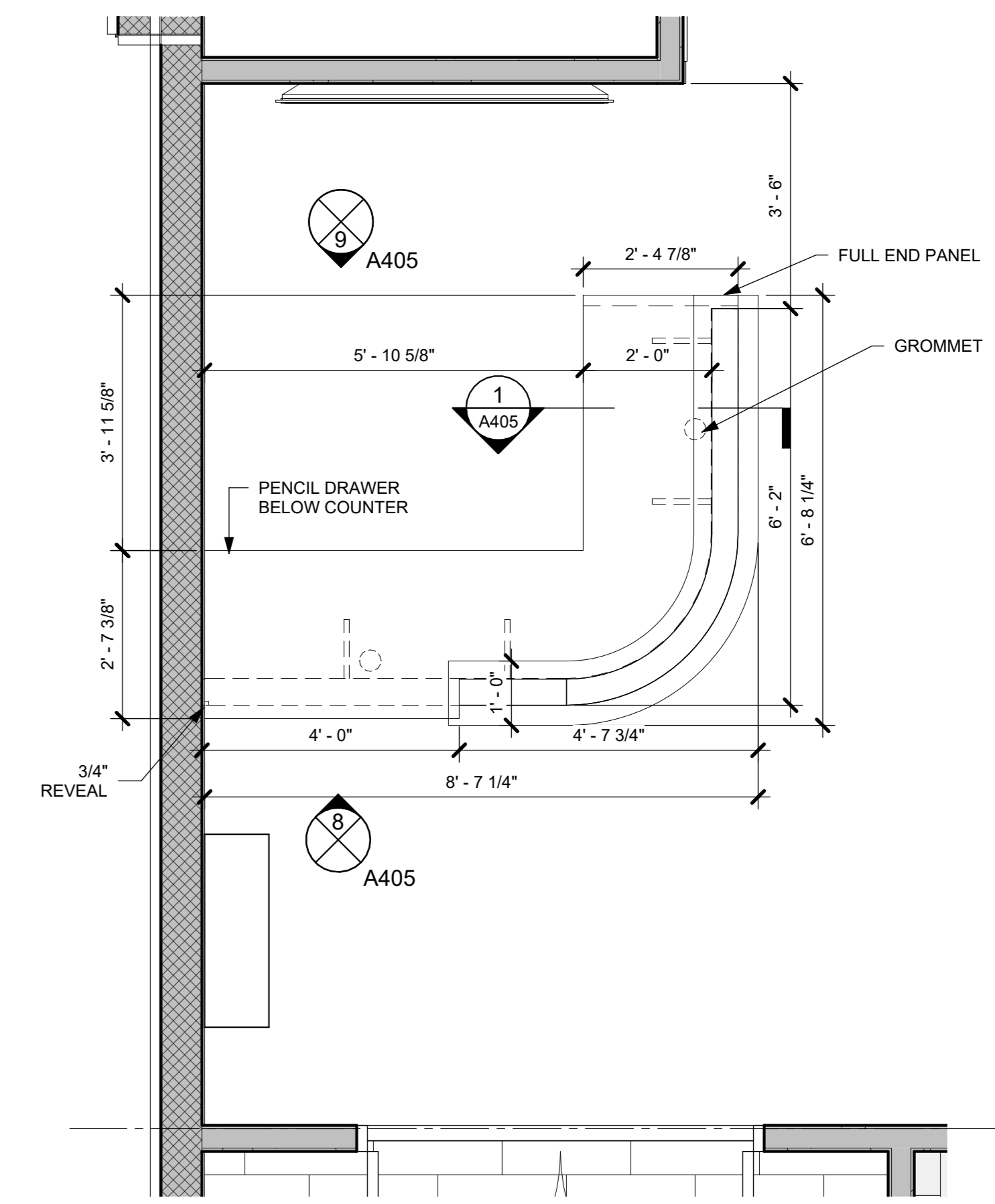
A404



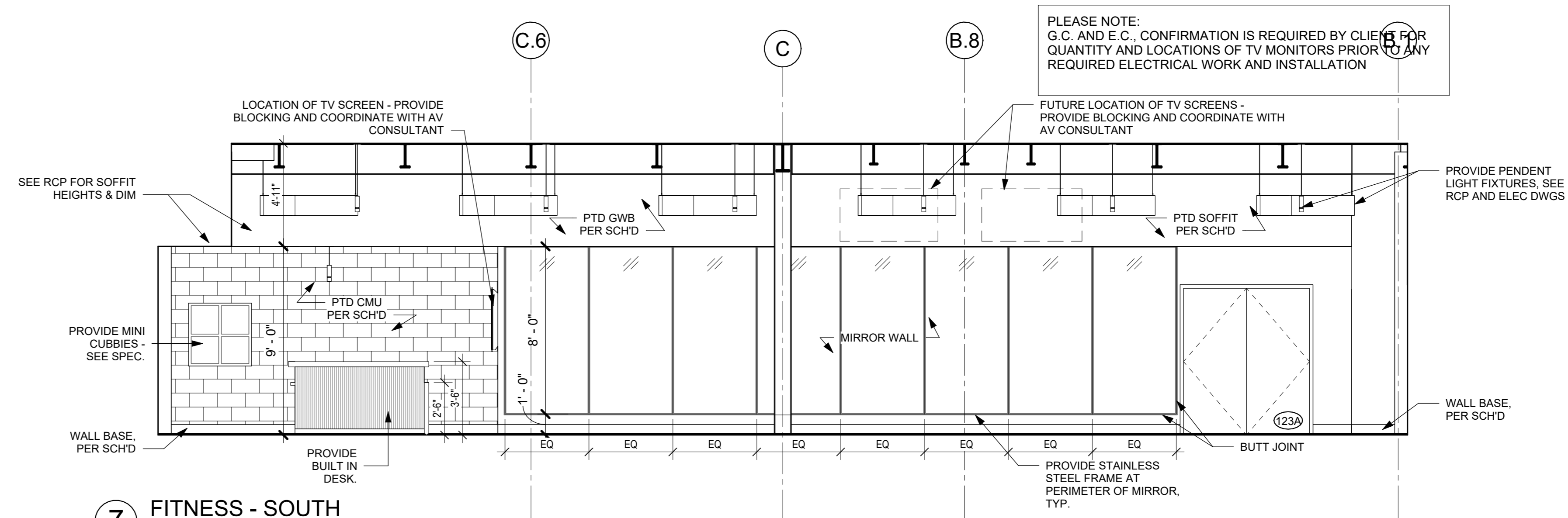
9 FITNESS 123 DESK ELEVATION
1/2" = 1'-0"



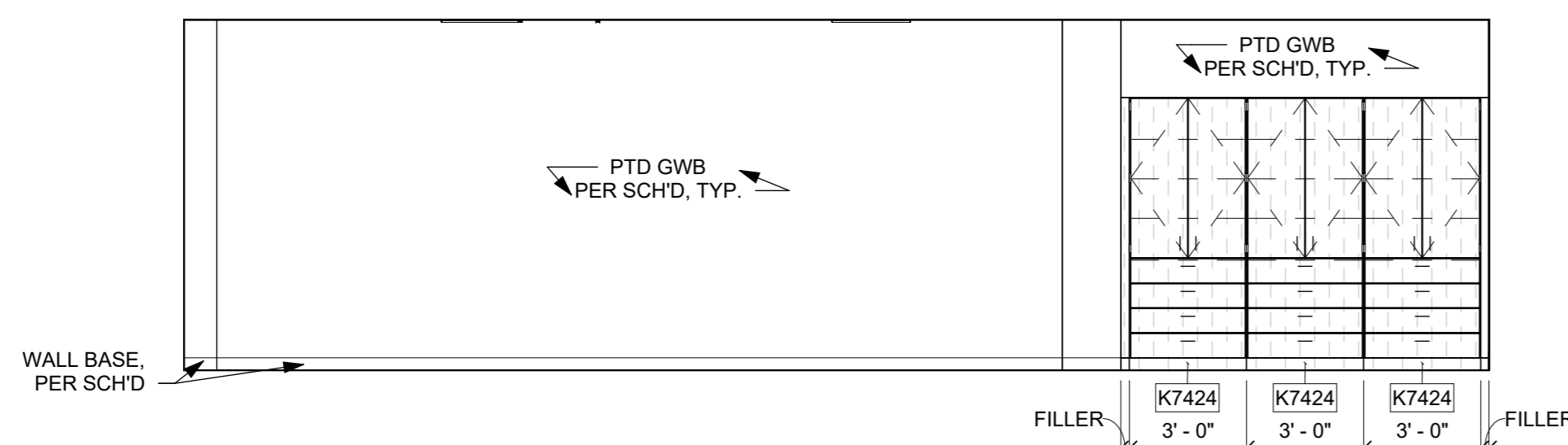
8 WEST ELEVATION @ FITNESS DESK
1/2" = 1'-0"



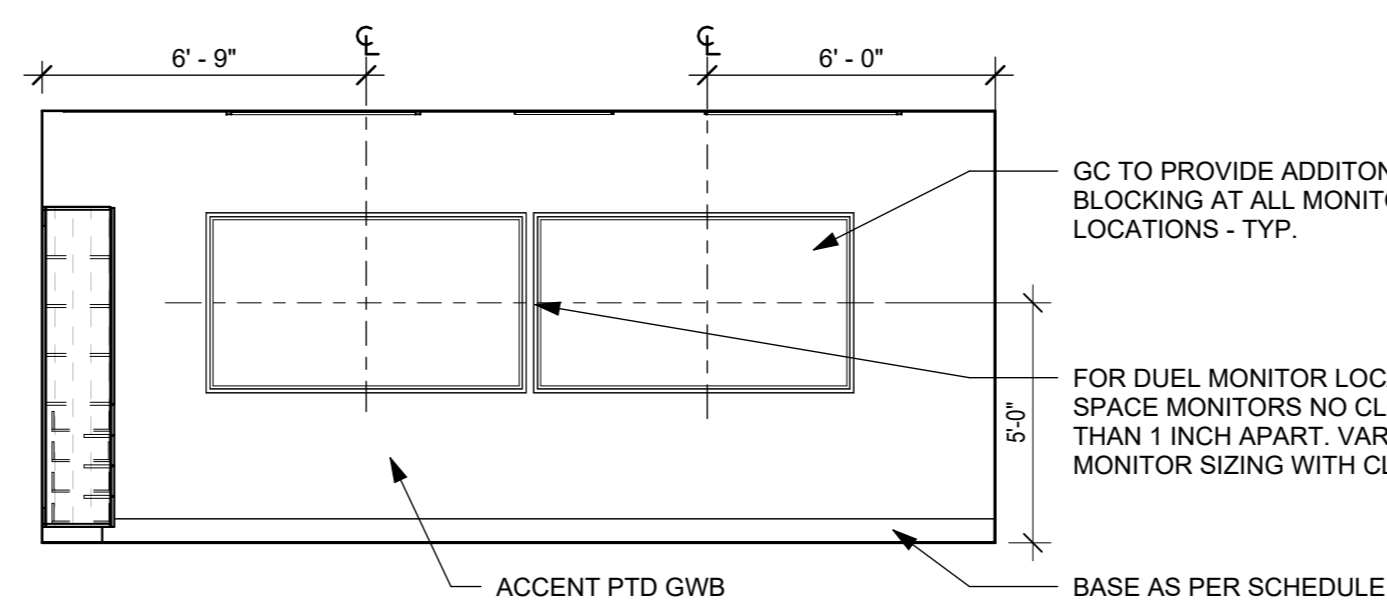
A FRONT DESK PLAN @ FITNESS 123
1/2" = 1'-0"



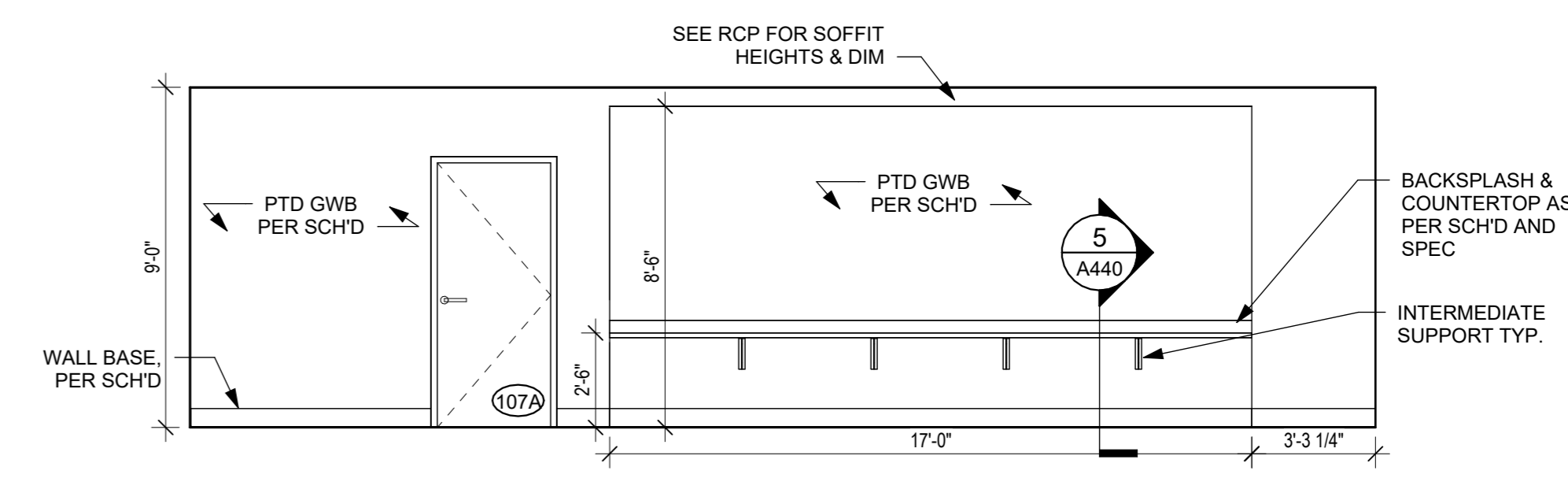
7 FITNESS - SOUTH
1/4" = 1'-0"



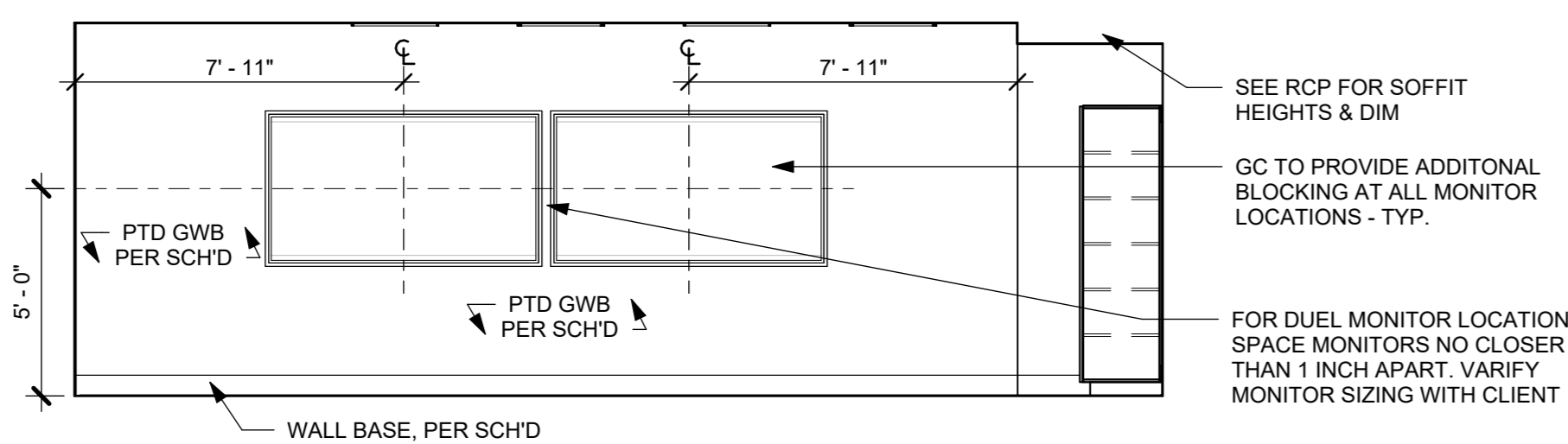
6 COMPUTER GAMING ROOM 107 - WEST ELEV
1/4" = 1'-0"



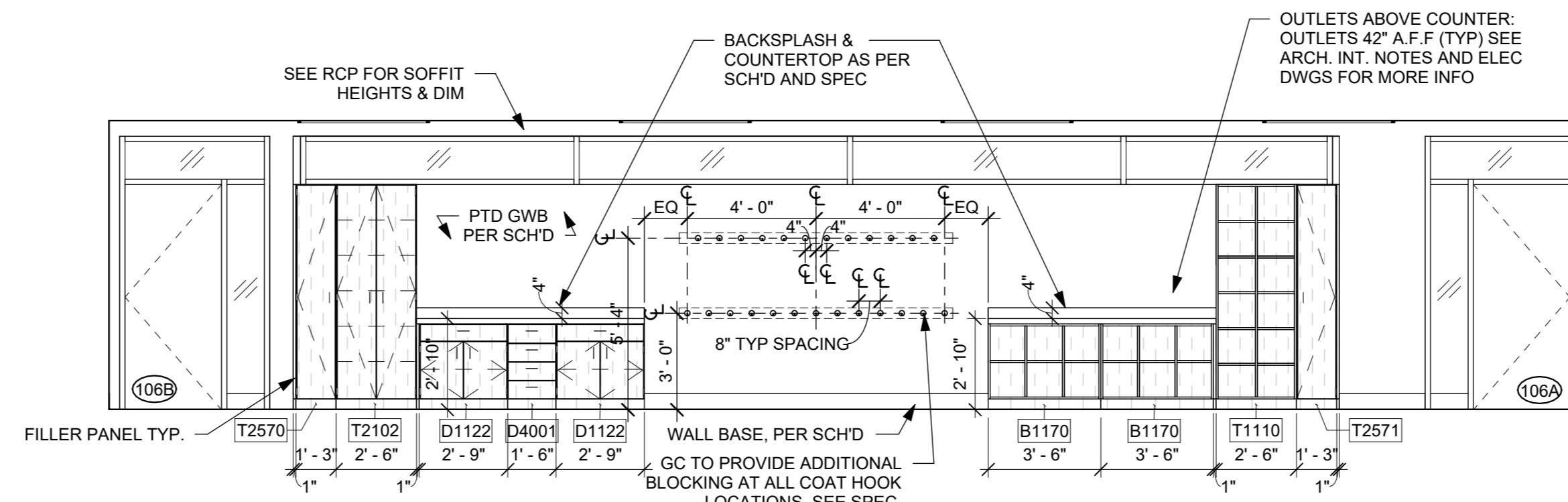
5 COMPUTER GAMING ROOM 107 - NORTH ELEV
1/4" = 1'-0"



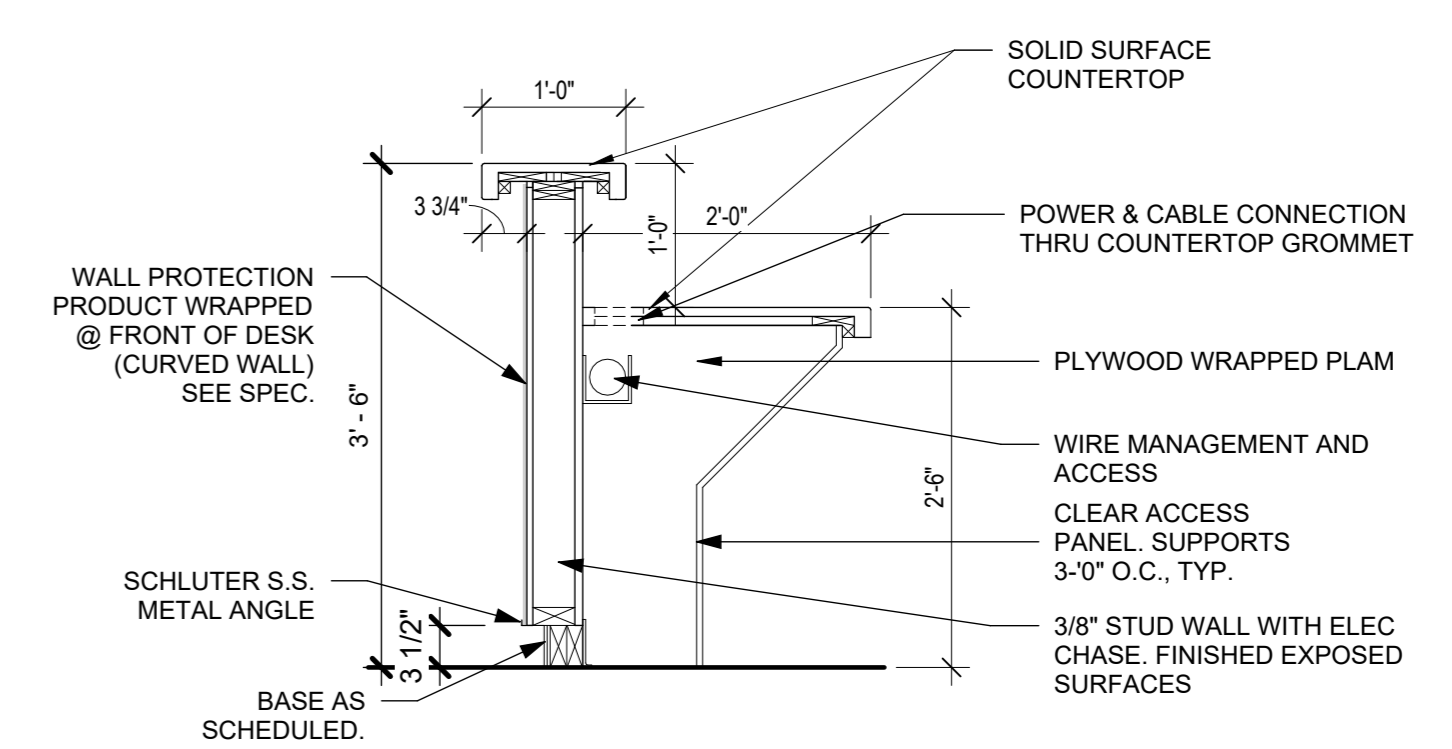
4 COMPUTER GAMING ROOM 107 - EAST ELEV.
1/4" = 1'-0"



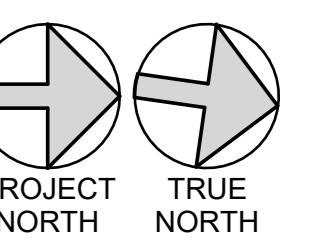
3 RECREATION GAME ROOM 106 - WEST ELEV.
1/4" = 1'-0"



2 RECREATION GAME ROOM 106 - NORTH ELEV.
1/4" = 1'-0"



1 SECTION @ FITNESS DESK ALT OPTION
3/4" = 1'-0"



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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

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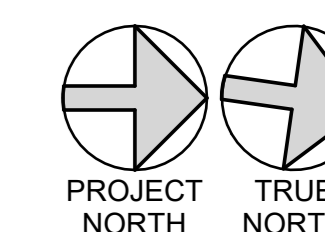
**1ST FLOOR
INTERIOR
ELEVATIONS**

Job No. 2020-1005 Date 12/22/23

Scale AS NOTED Drawn / Checked Author Checker

Sheet Number

A405

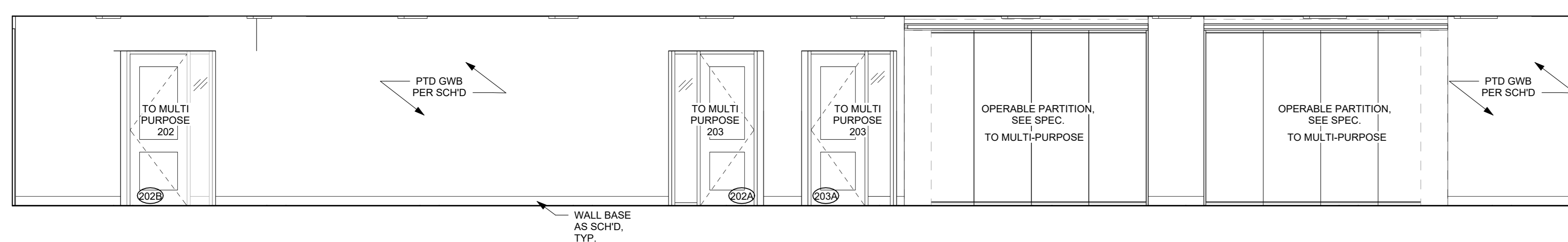


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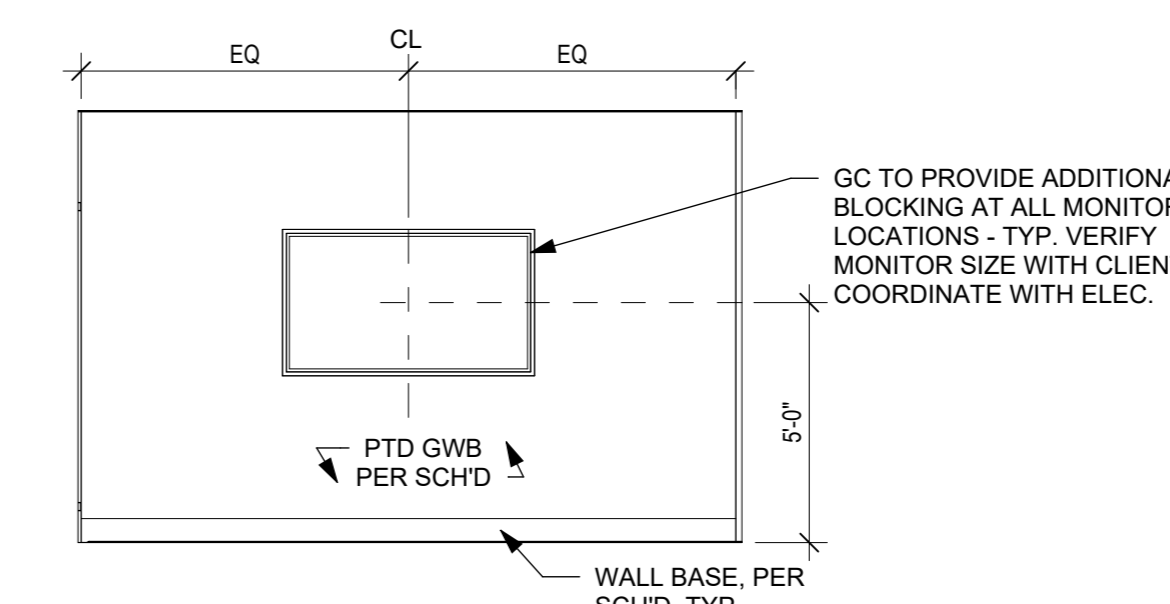
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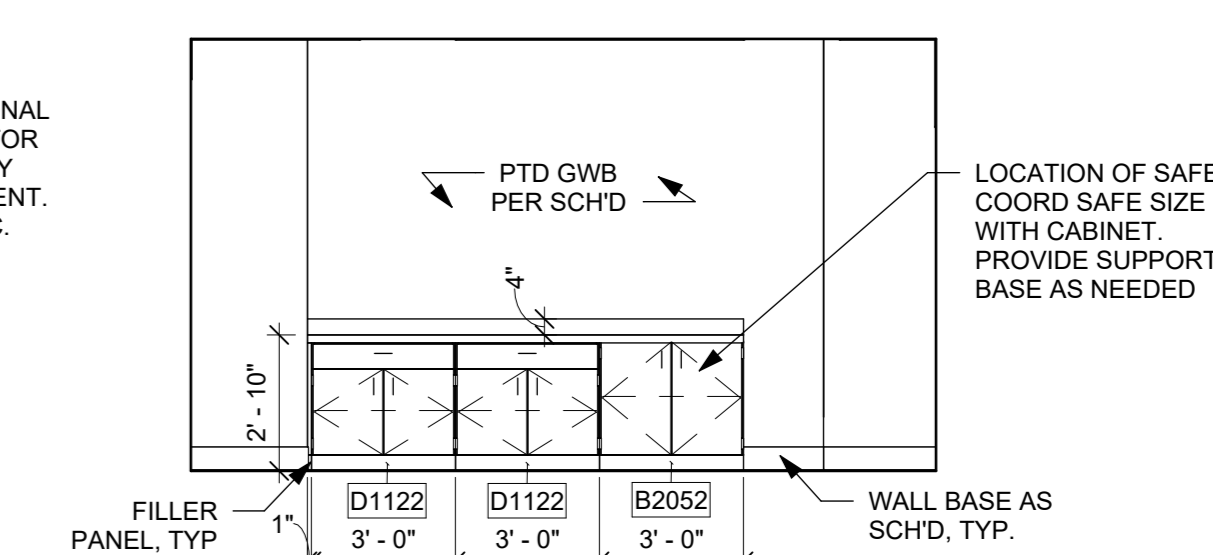
Professional Seal



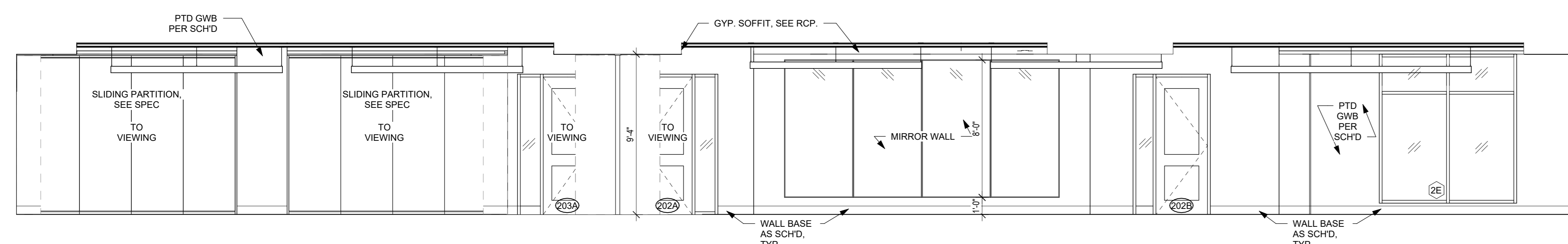
6 VIEWING 200 SOUTH ELEVATION
1/4" = 1'-0"



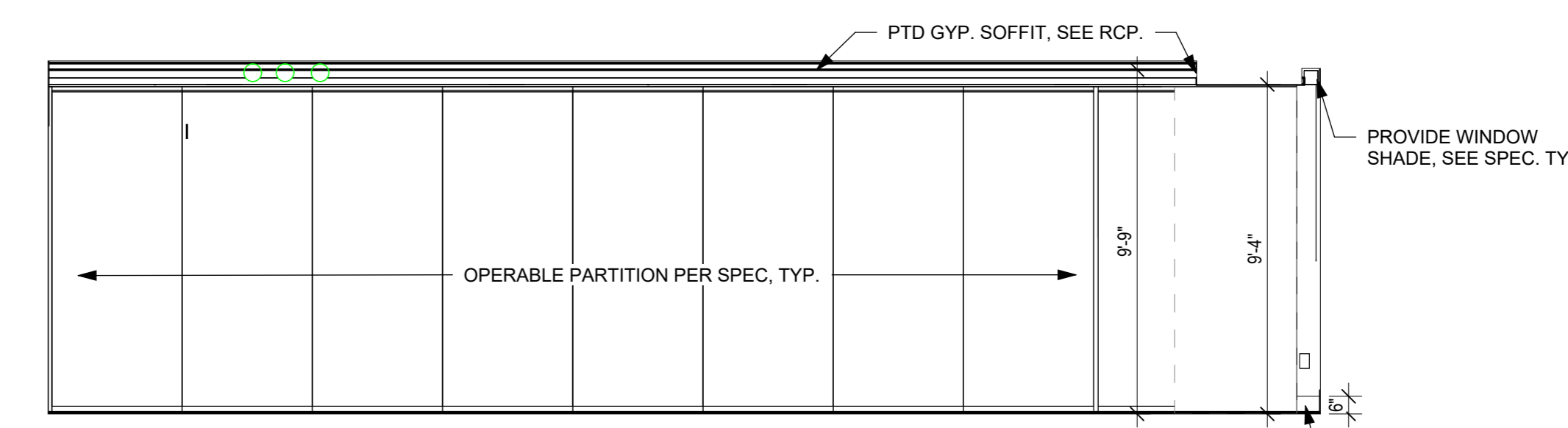
5 CONFERENCE 212B NORTH ELEVATION
1/4" = 1'-0"



4 OPEN OFFICE 212 SOUTH ELEVATION
1/4" = 1'-0"



2 MULTI-PURPOSE ROOMS NORTH ELEVATION
1/4" = 1'-0"



1 MULTI-PURPOSE OPERABLE PARTION ELEVATION
1/4" = 1'-0"

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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

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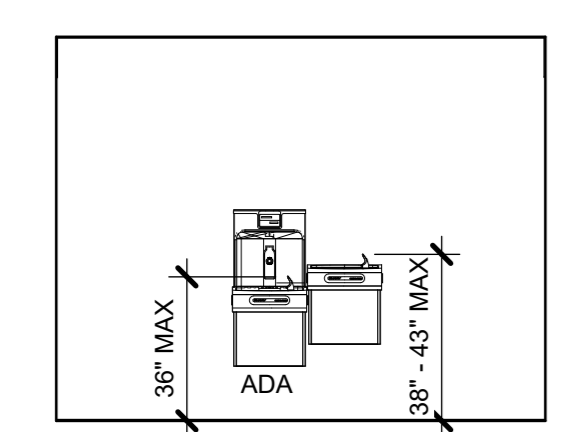
2ND FLOOR
ENLARGED PLANS
& INTERIOR
ELEVATIONS

Job No. 2020-1005 Date 12/22/23

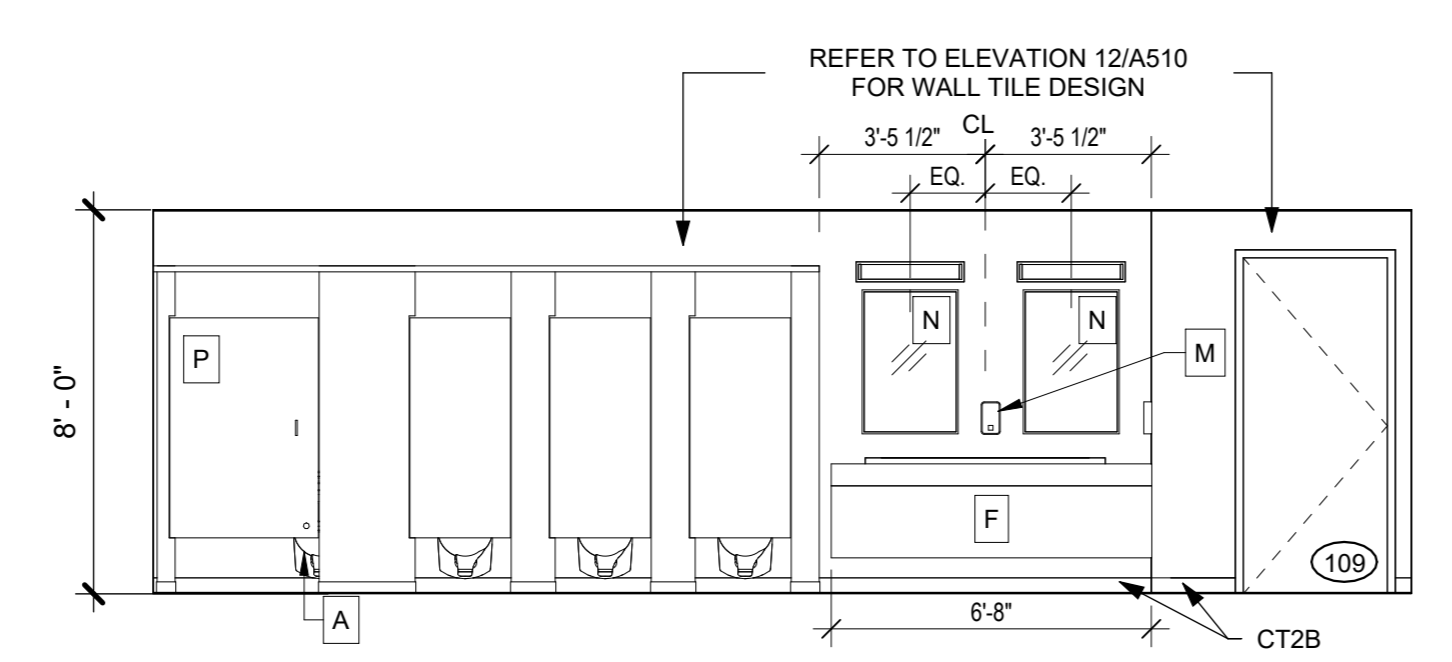
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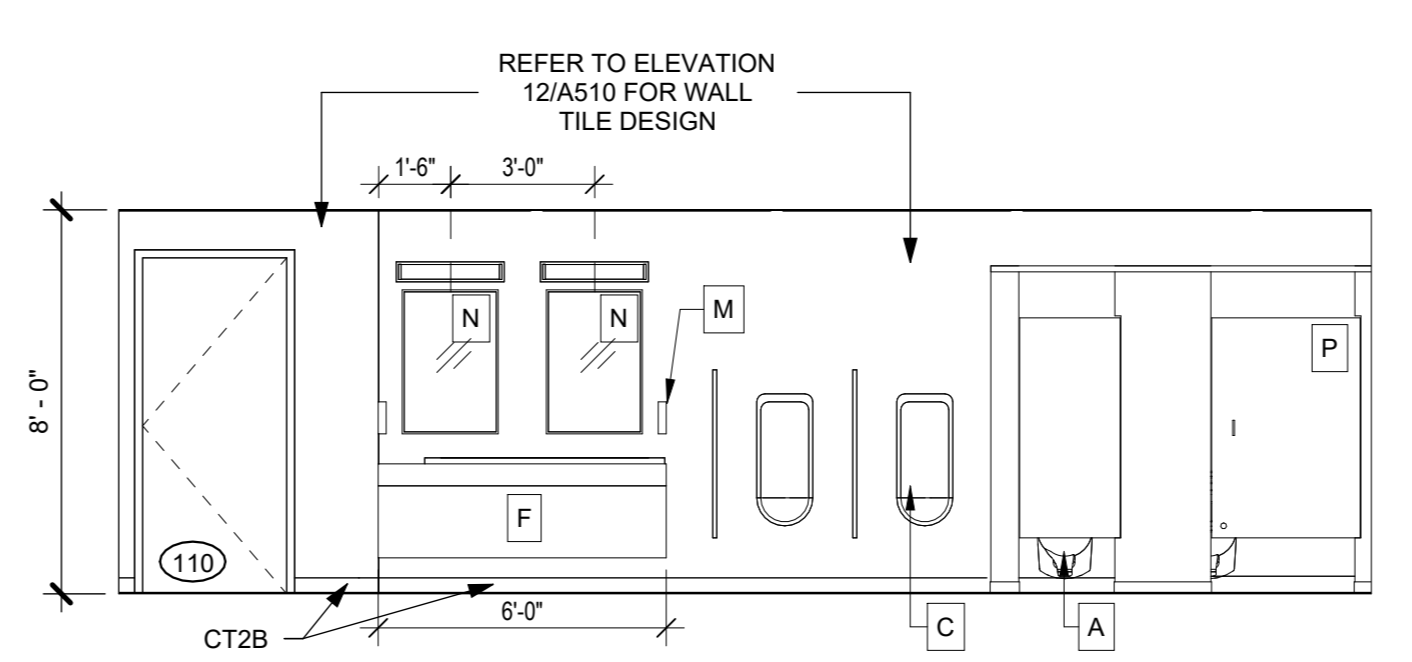
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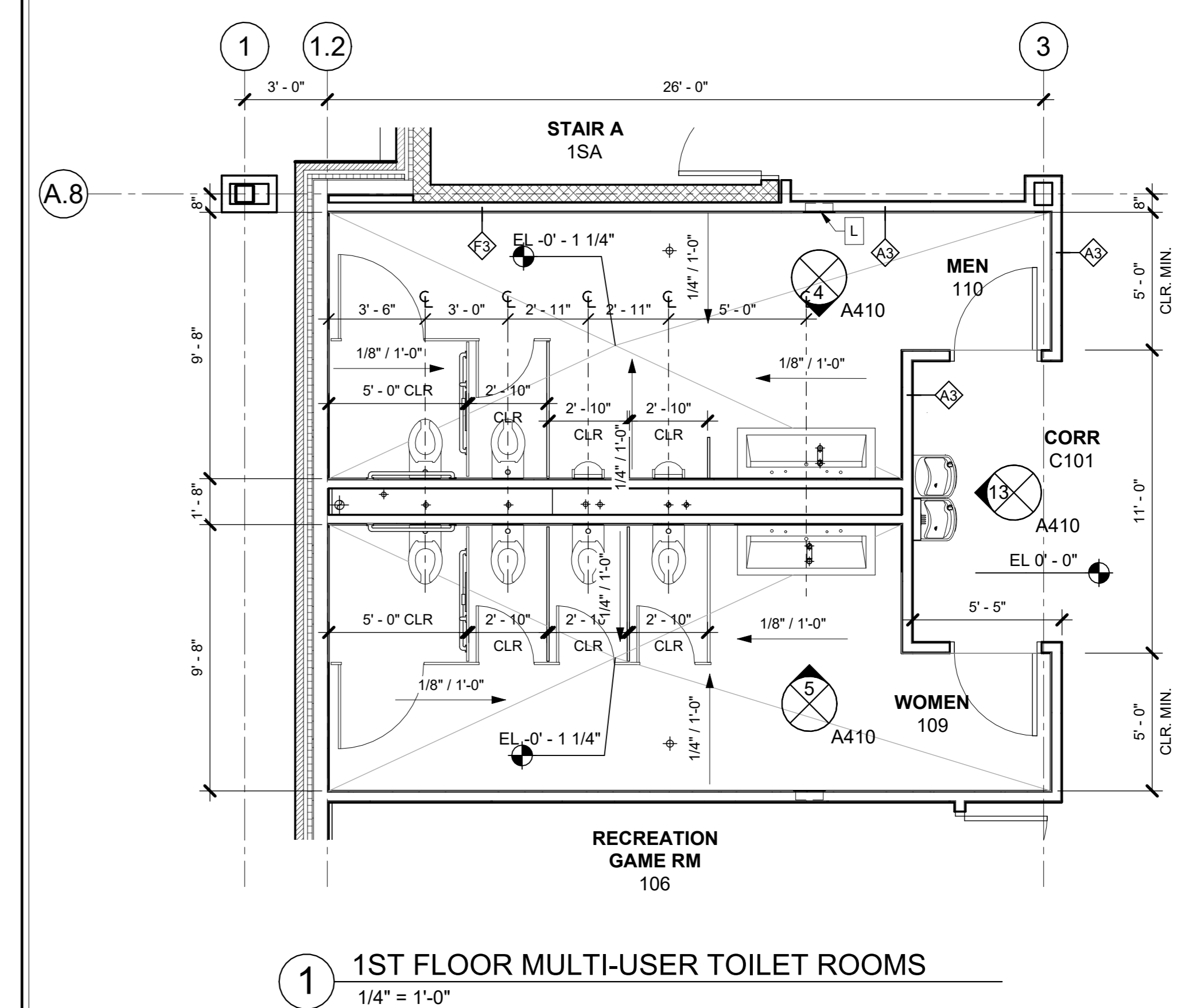
13 CORRIDOR C101 SOUTH ELEV.
1/4" = 1'-0"



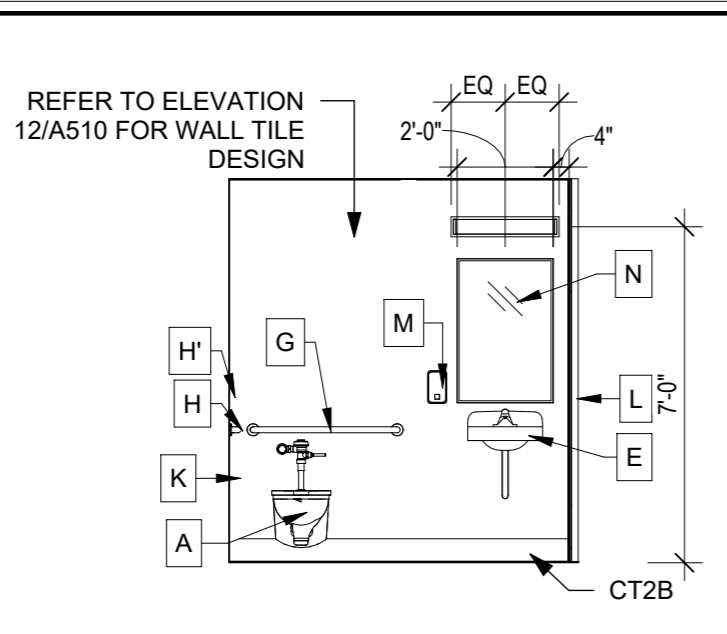
5 WOMEN 109 - WEST ELEVATION
1/4" = 1'-0"



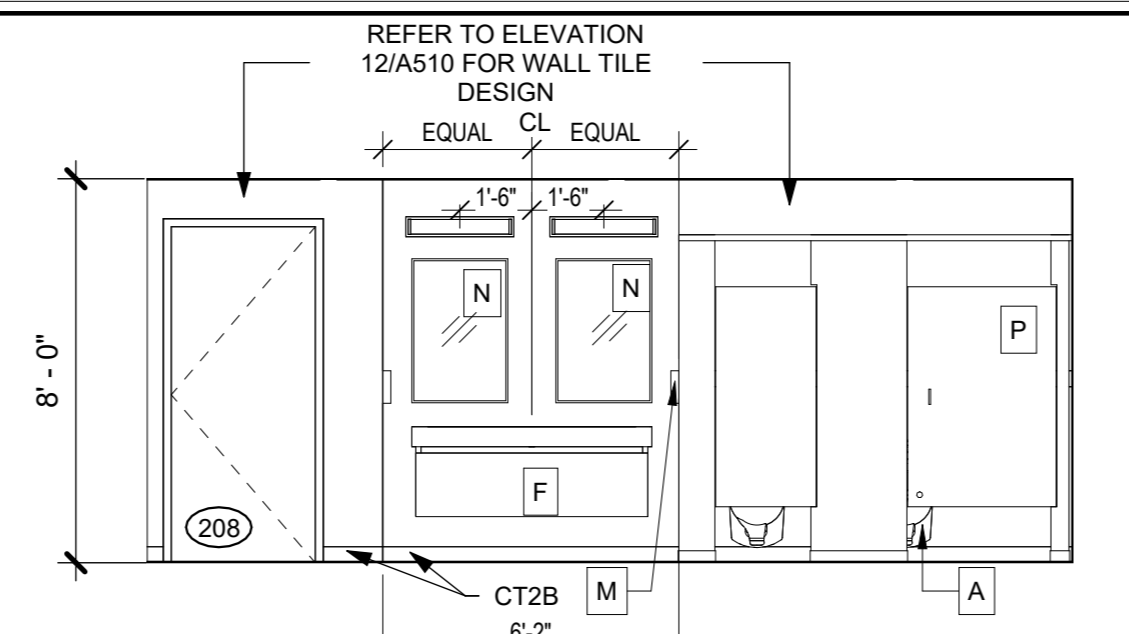
4 MEN 110 - EAST ELEVATION
1/4" = 1'-0"



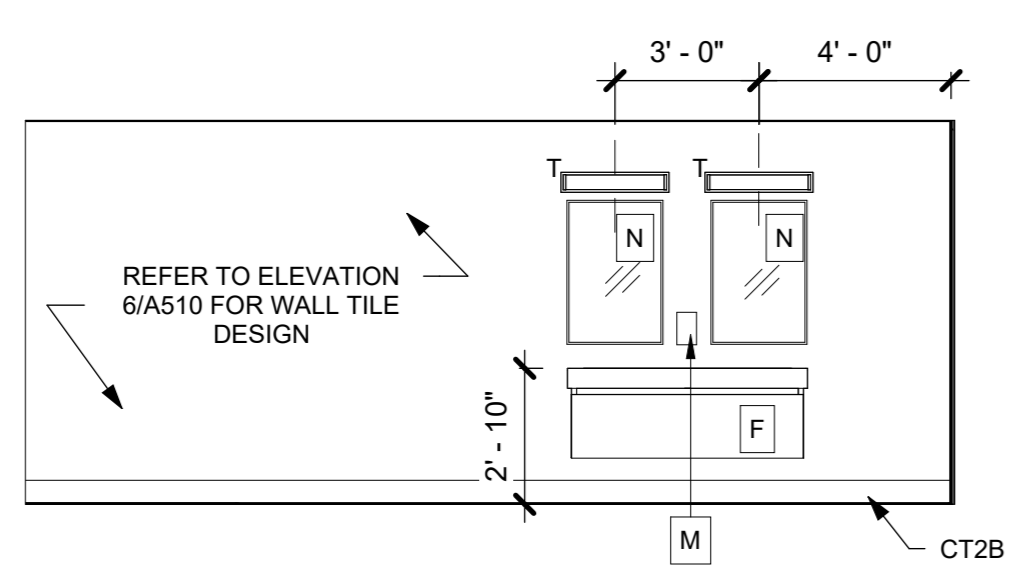
1 1ST FLOOR MULTI-USER TOILET ROOMS
1/4" = 1'-0"



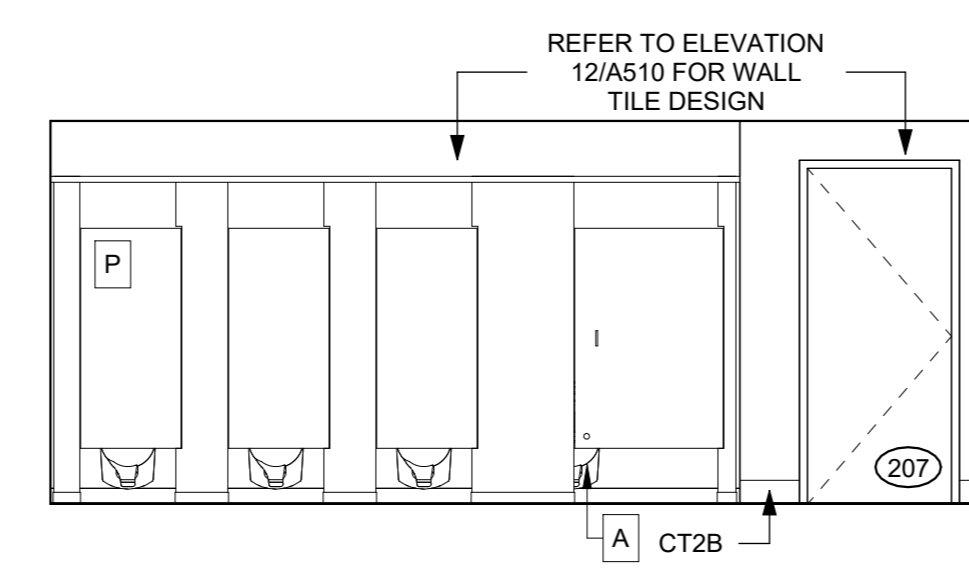
8 TOILET 211 - NORTH ELEVATION
1/4" = 1'-0"



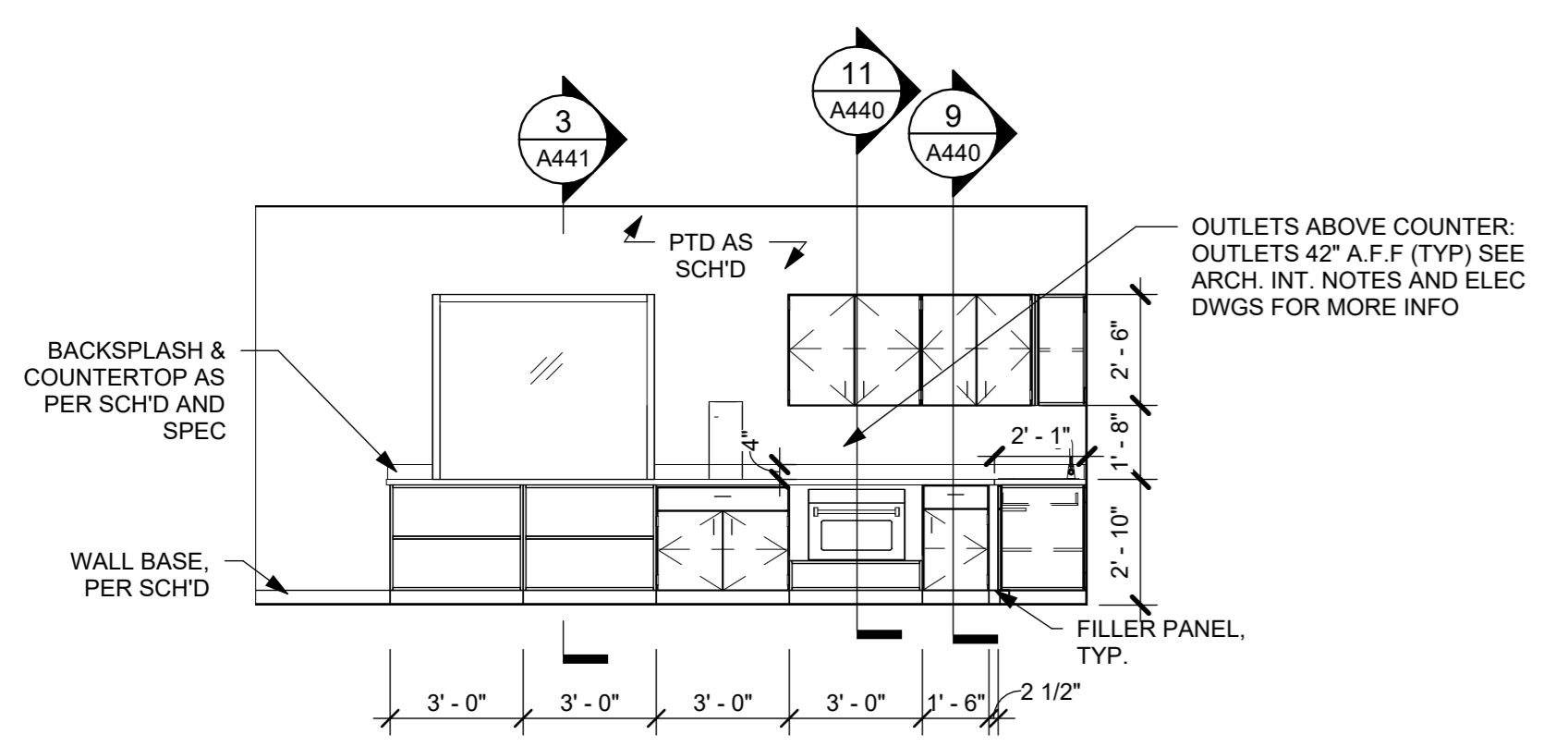
12 MEN 208 - EAST ELEVATION
1/4" = 1'-0"



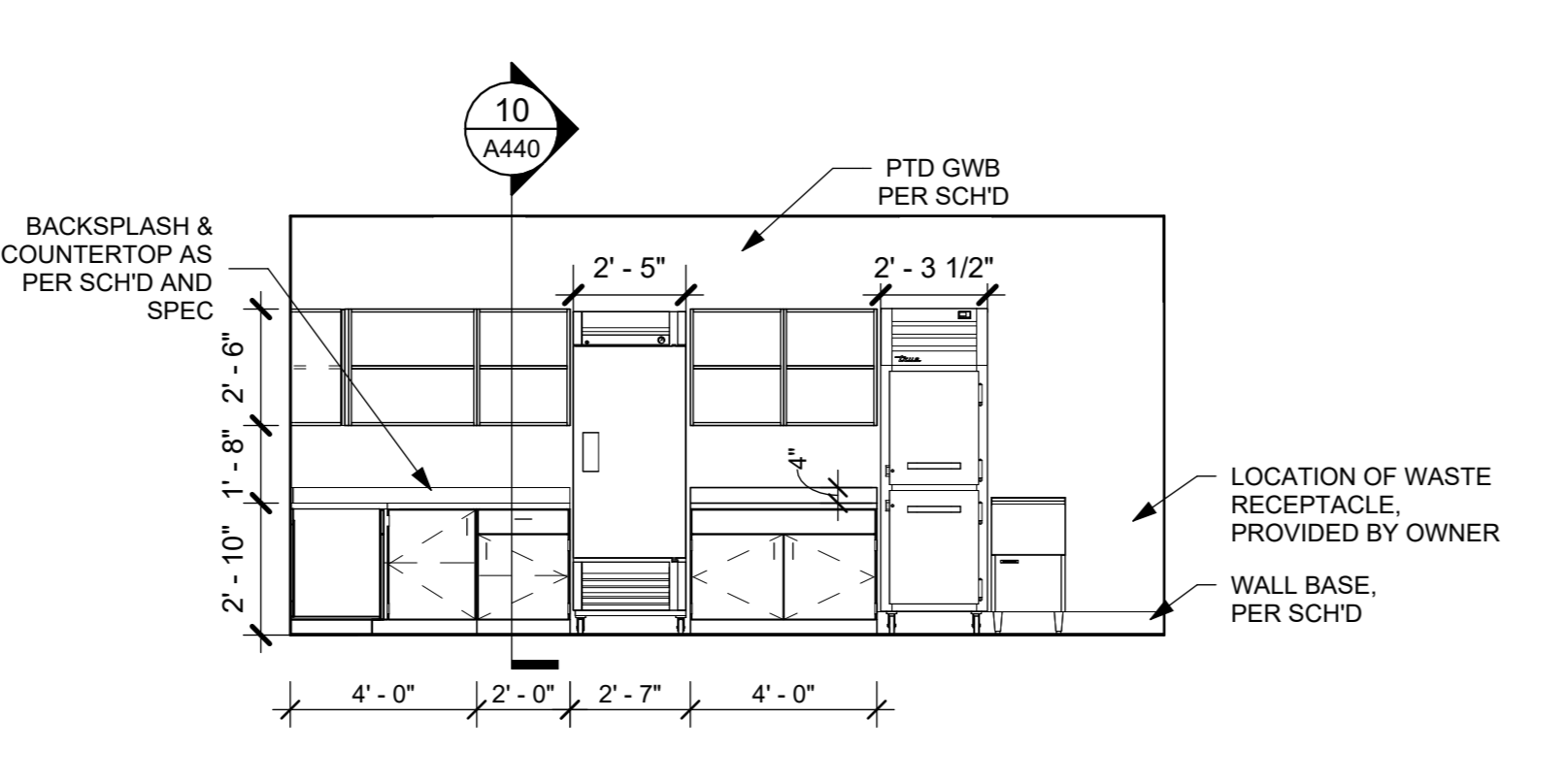
7 WOMENS 207 - EAST ELEVATION
1/4" = 1'-0"



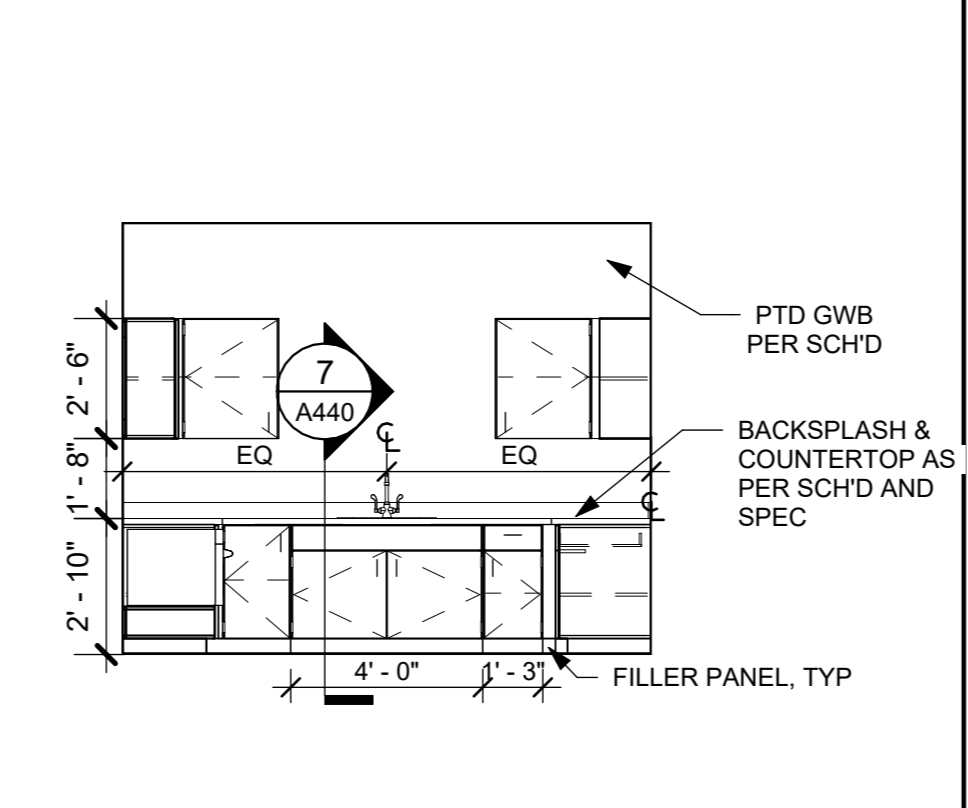
6 WOMEN 207 - WEST ELEVATION
1/4" = 1'-0"



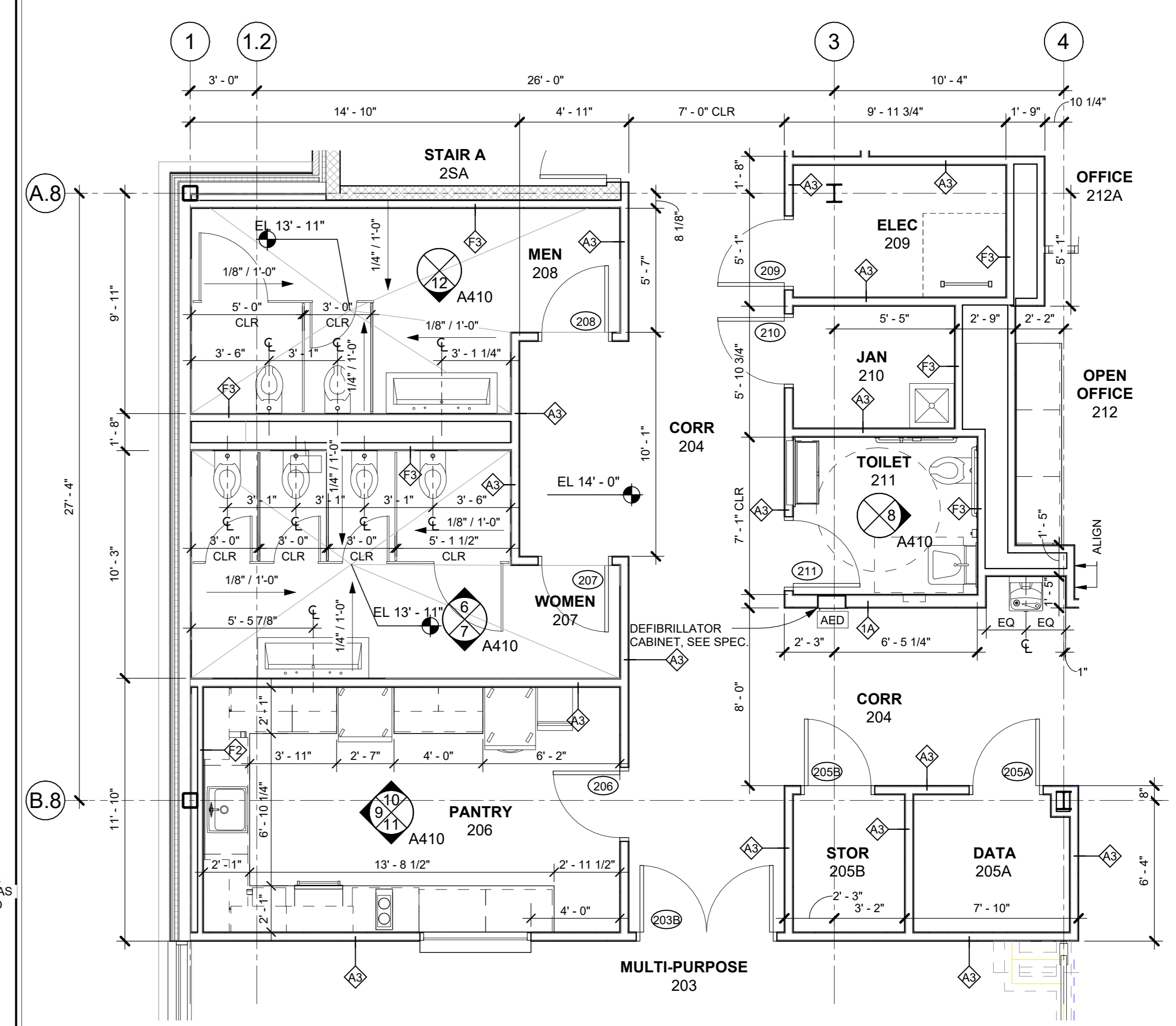
11 PANTRY 206 - EAST ELEVATION
1/4" = 1'-0"



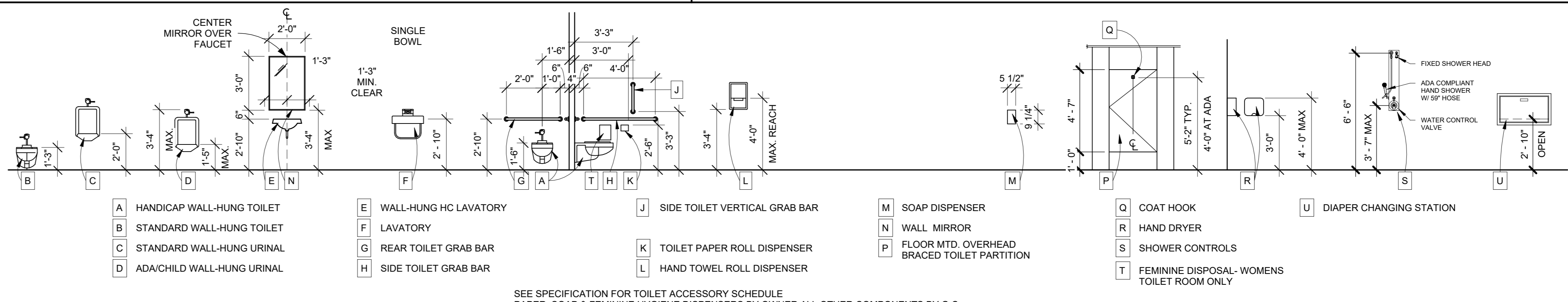
10 PANTRY 206 - WEST ELEVATION
1/4" = 1'-0"



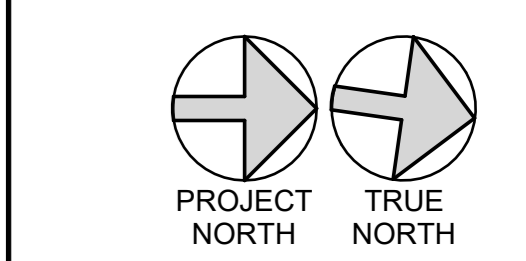
9 PANTRY 206 - SOUTH ELEVATION
1/4" = 1'-0"



2 2ND FLOOR MULTI-USER TOILET ROOMS
1/4" = 1'-0"



3 TOILET ROOM EQUIPMENT AND HEIGHTS
1/4" = 1'-0"



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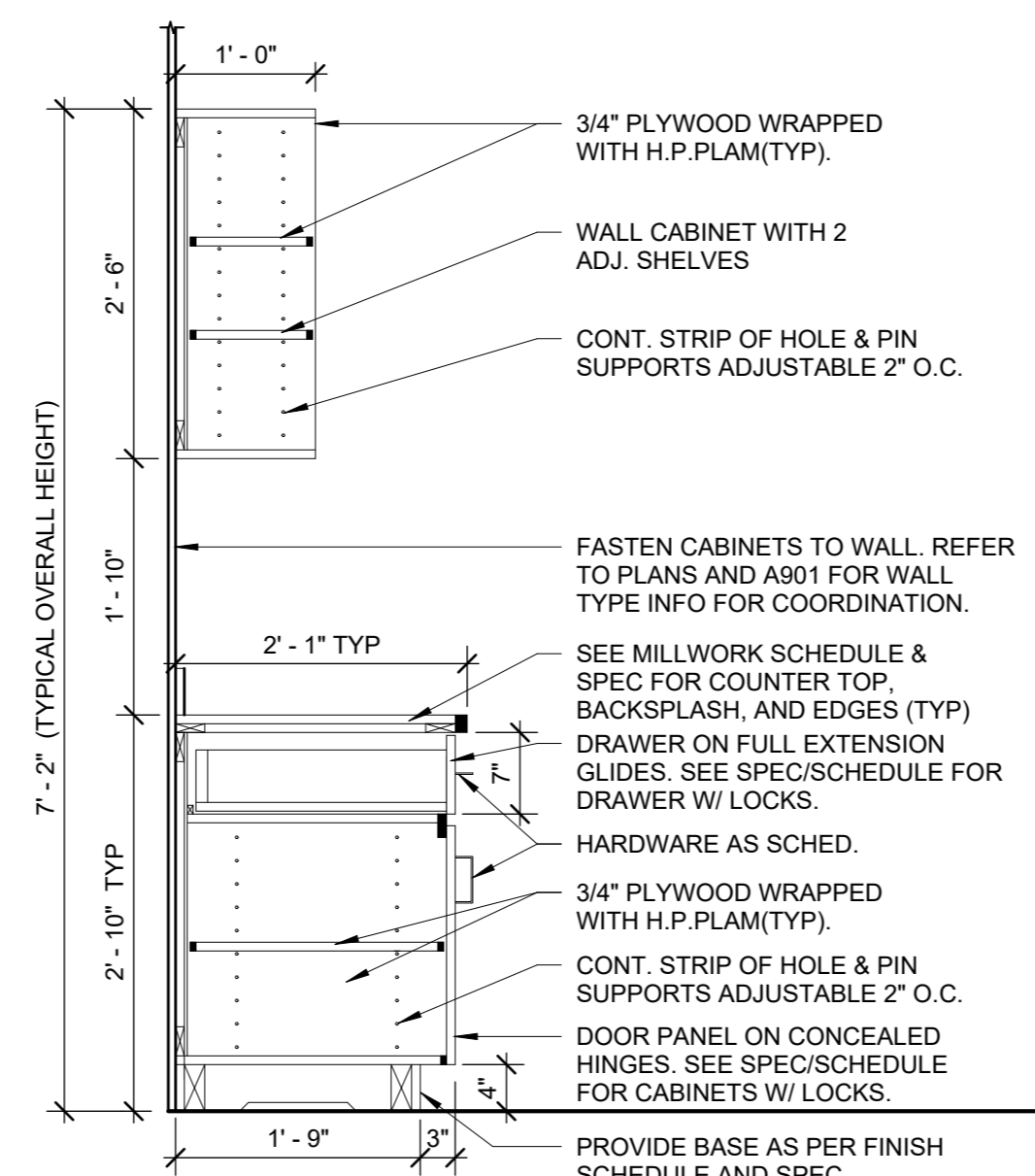
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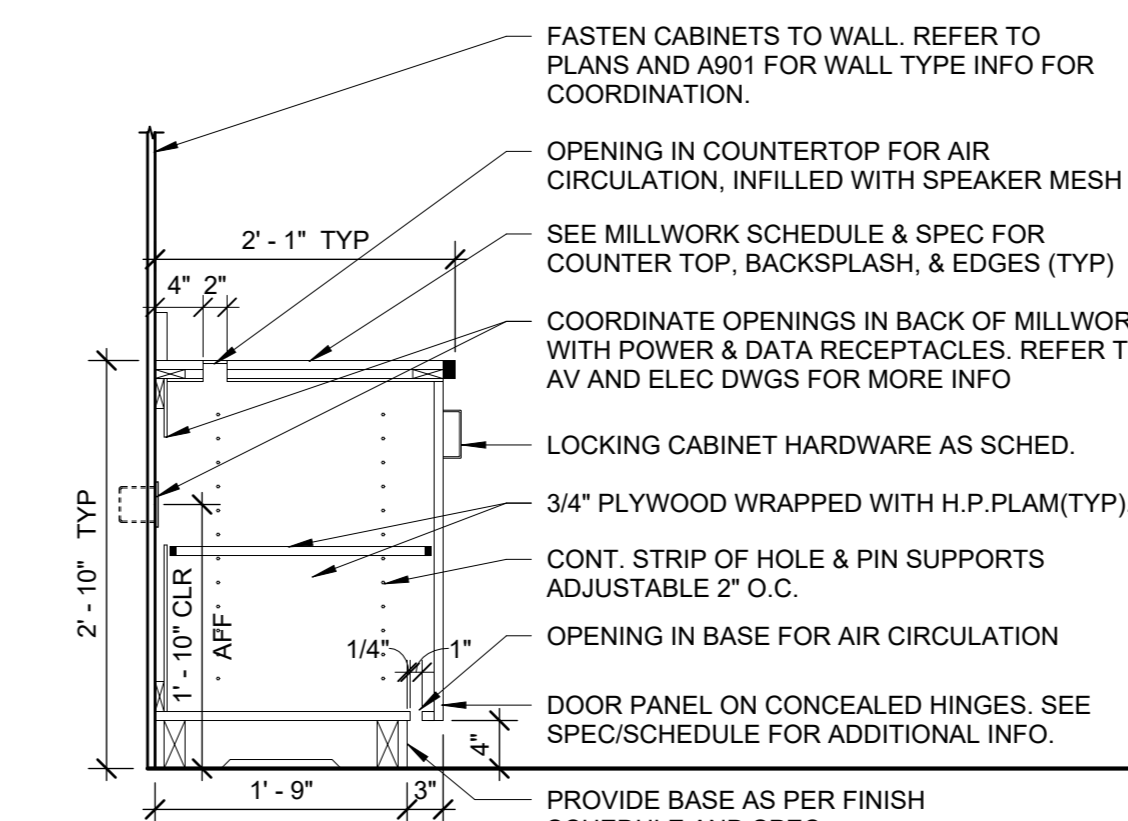
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| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

| | | |
|---|-----------|------------------|
| No. | Date | Issue |
| Sheet Title | | |
| TOILET ROOMS AND PANTRY - ENLARGED PLANS & INTERIOR ELEVATIONS | | |
| Job No. | 2020-1005 | Date |
| Scale | AS NOTED | Drawn / Checked |
| Sheet Number | | Author / Checker |

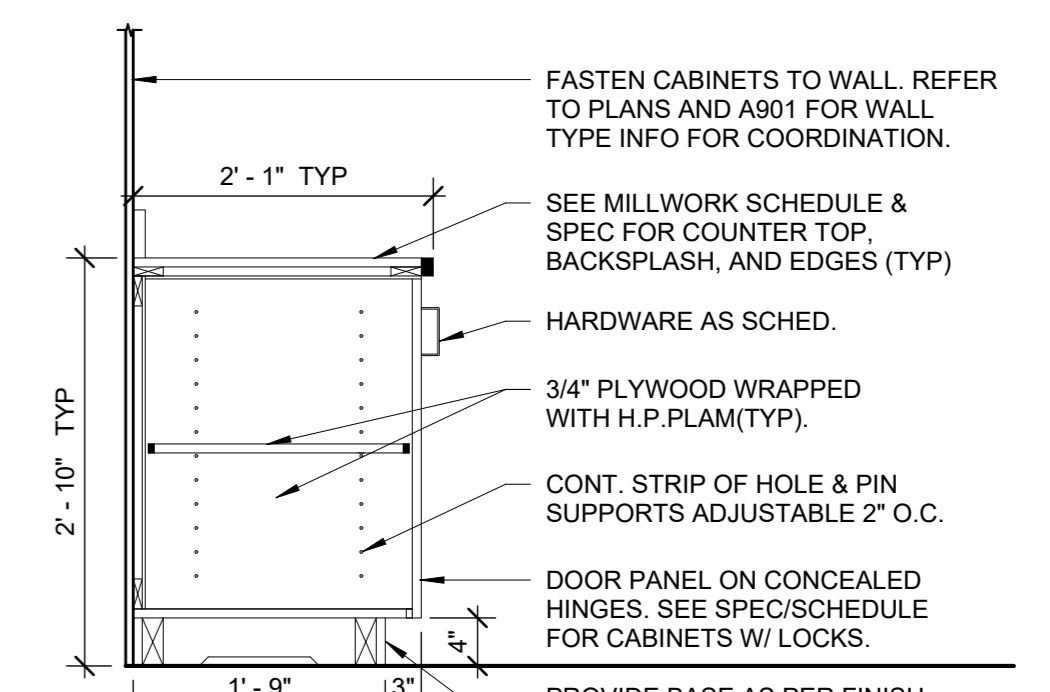
A410



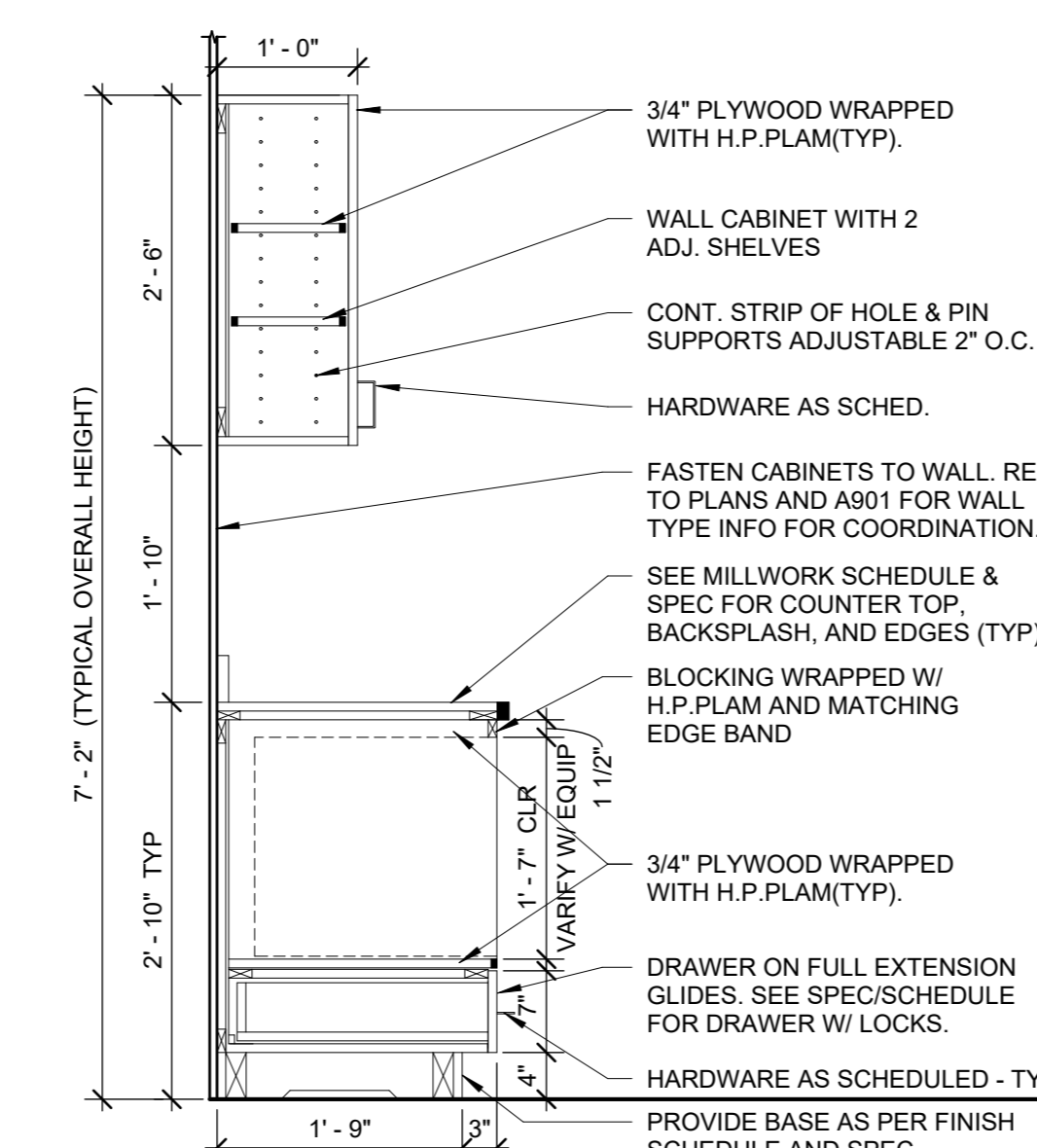
10 TYP. BASE CABINET W/ UPPER OPEN CABINET
3/4" = 1'-0"



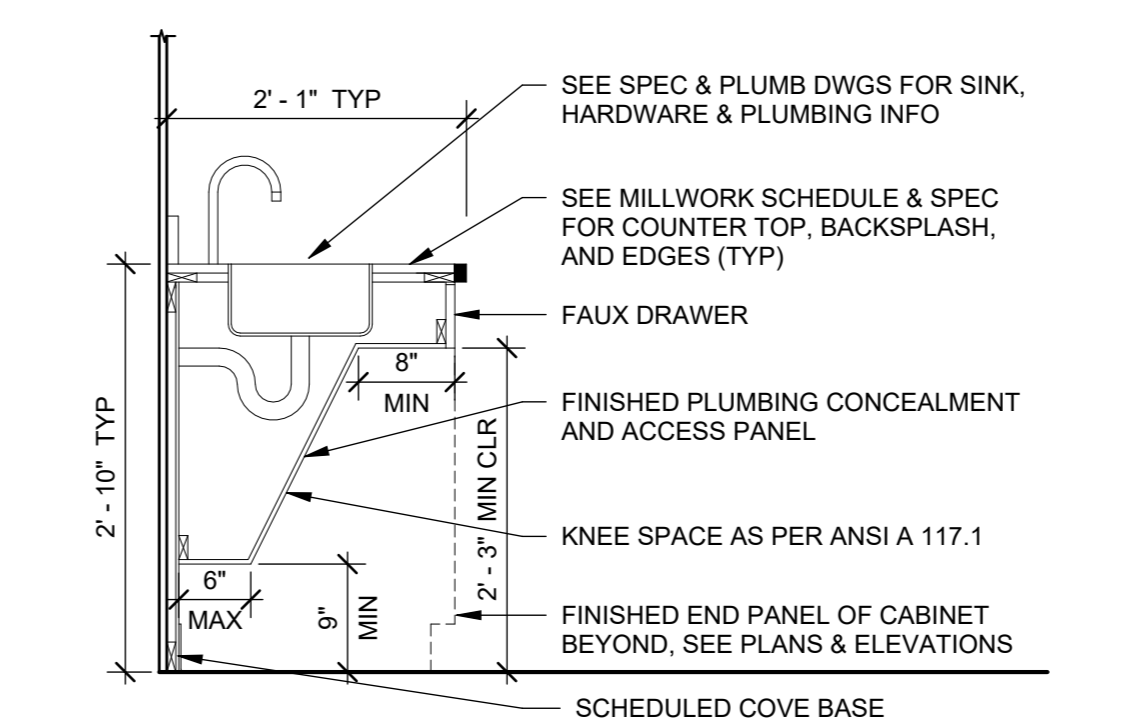
6 TYPICAL AV VENTILATED CABINET
3/4" = 1'-0"



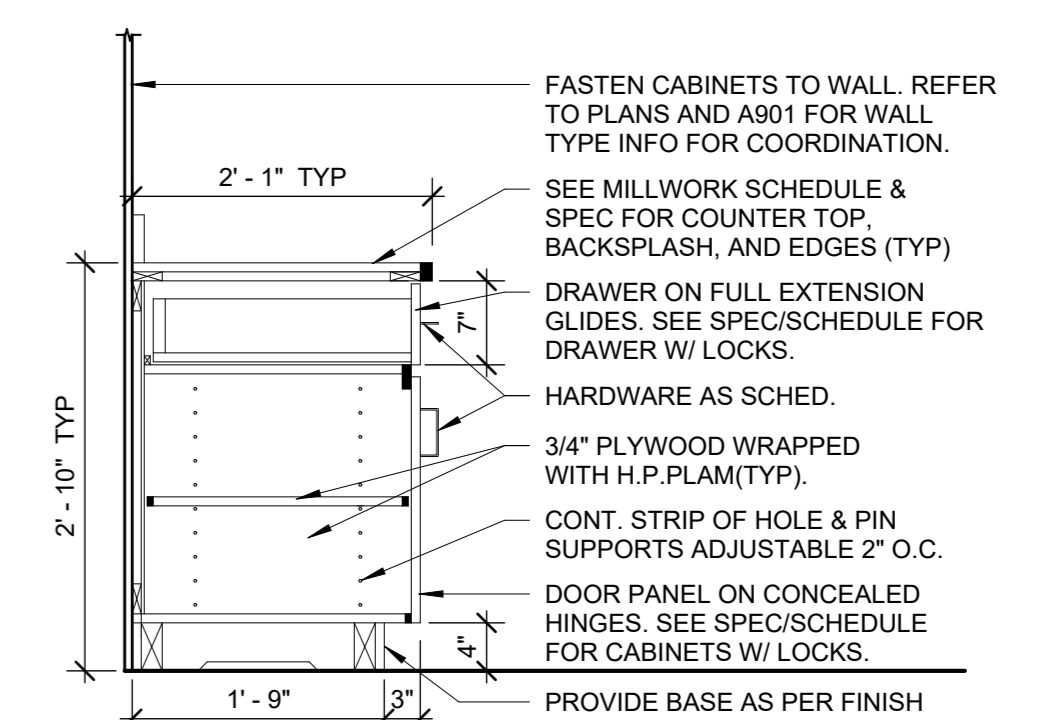
1 TYPICAL BASE CABINET WITH DOORS
3/4" = 1'-0"



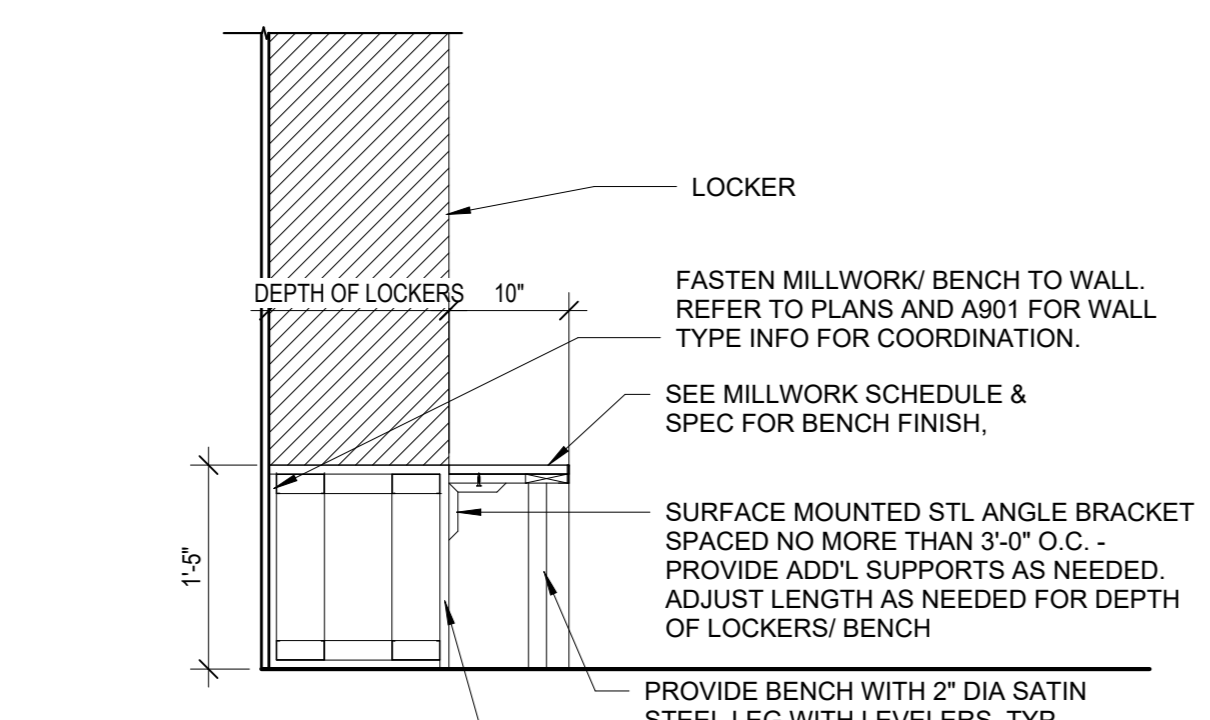
11 MICROWAVE BASE CABINET W/ UPPER CABINET
3/4" = 1'-0"



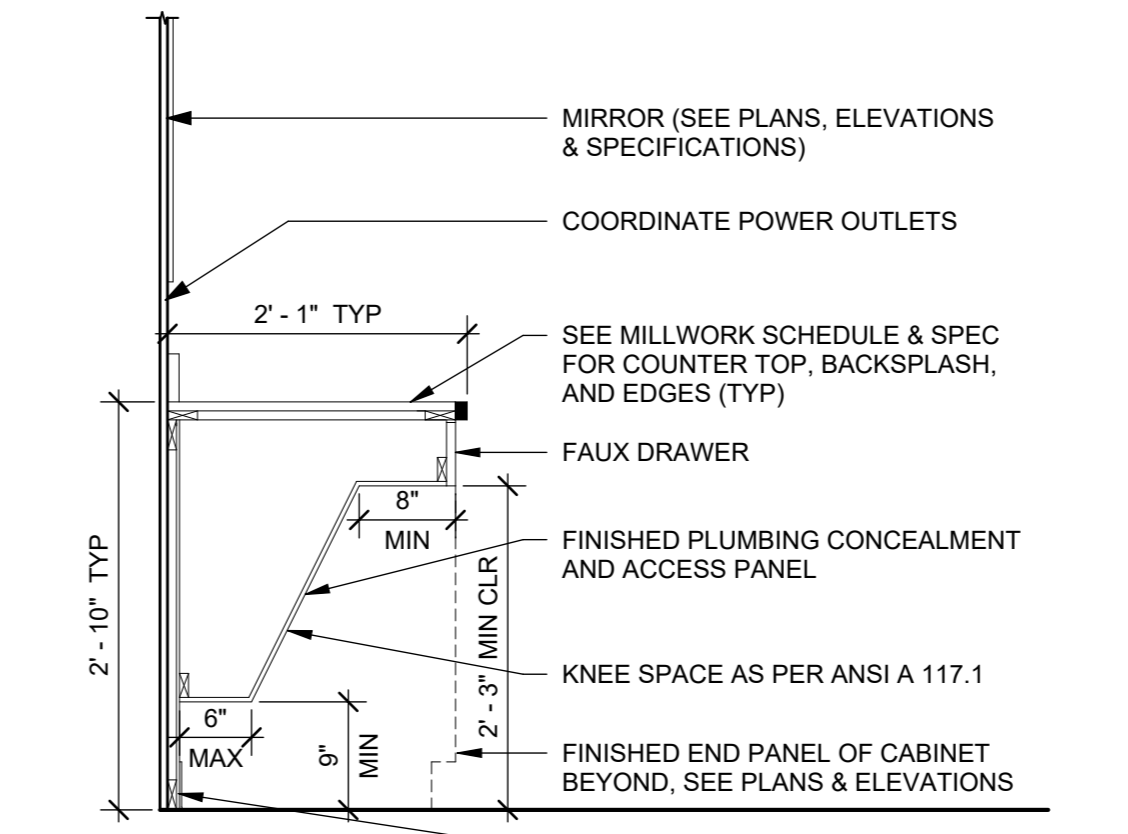
7 TYPICAL ADA SINK CONCEALMENT
3/4" = 1'-0"



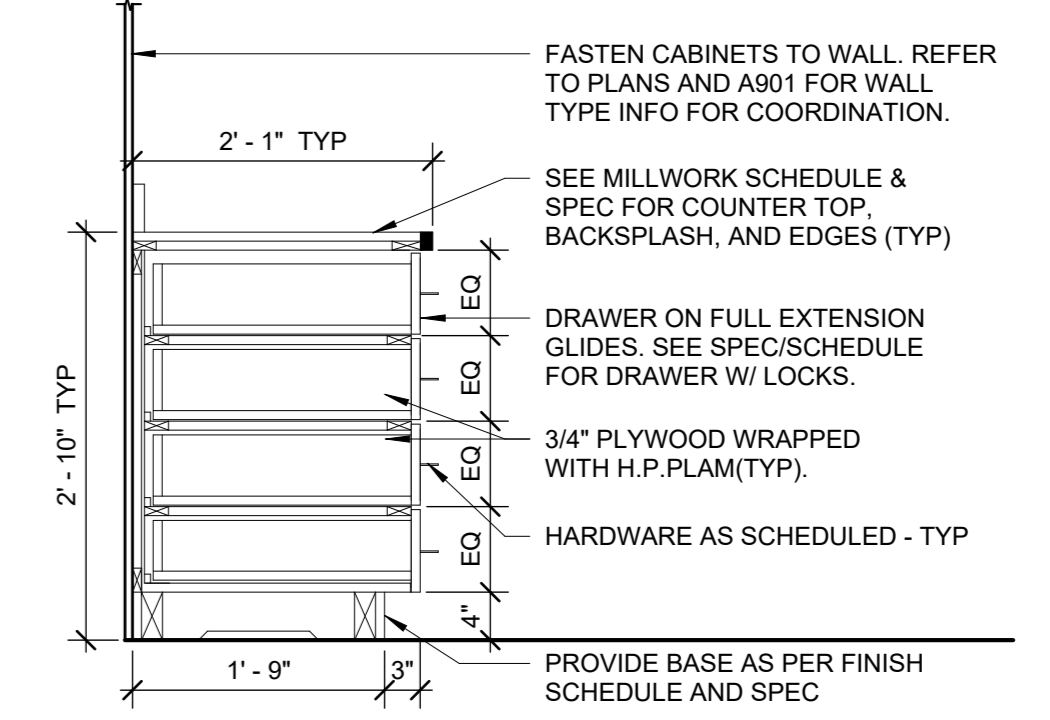
2 TYPICAL BASE CABINET WITH DOORS AND SINGLE DRAWER
3/4" = 1'-0"



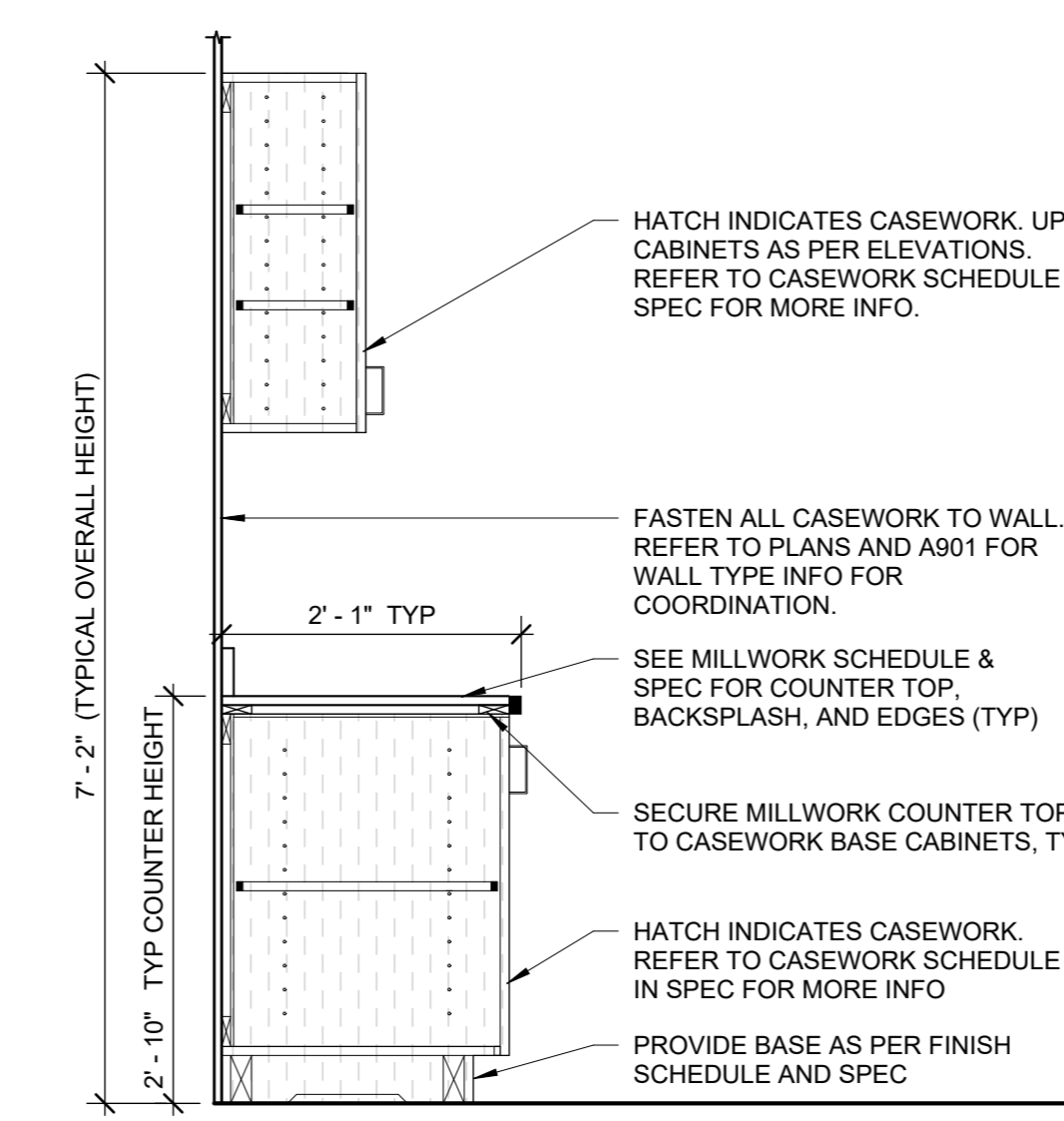
16 LOCKER MILLWORK/ BENCH
3/4" = 1'-0"



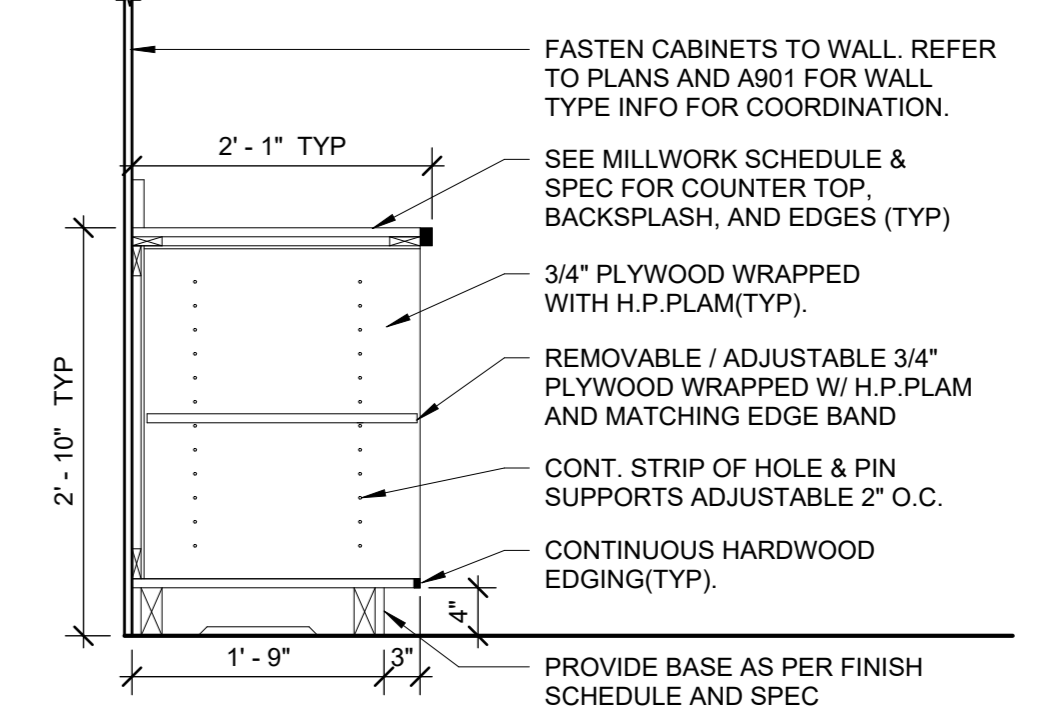
8 LOCKER ROOM GROOMING STATIONS
3/4" = 1'-0"



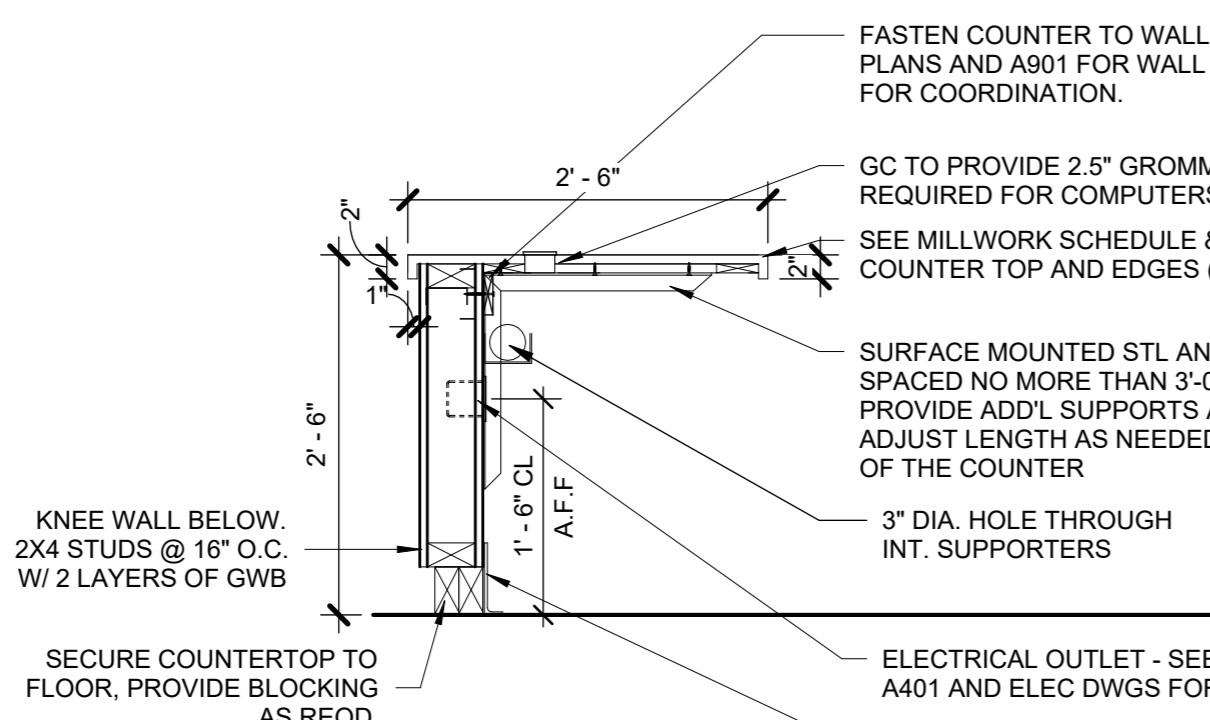
3 TYPICAL BASE CABINET WITH DRAWERS
3/4" = 1'-0"



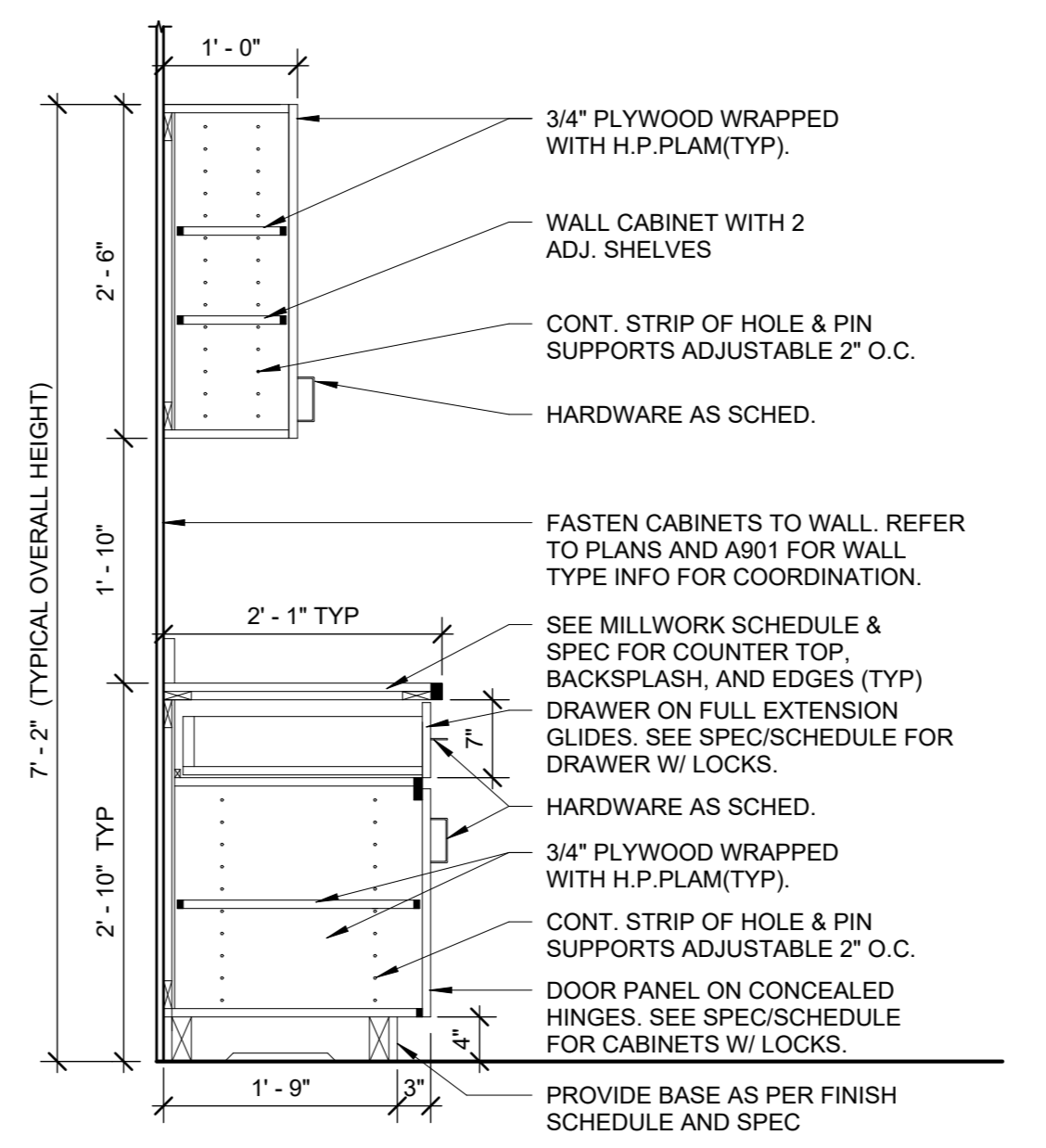
12 TYP. MILLWORK COUNTER W/ CASEWORK
3/4" = 1'-0"



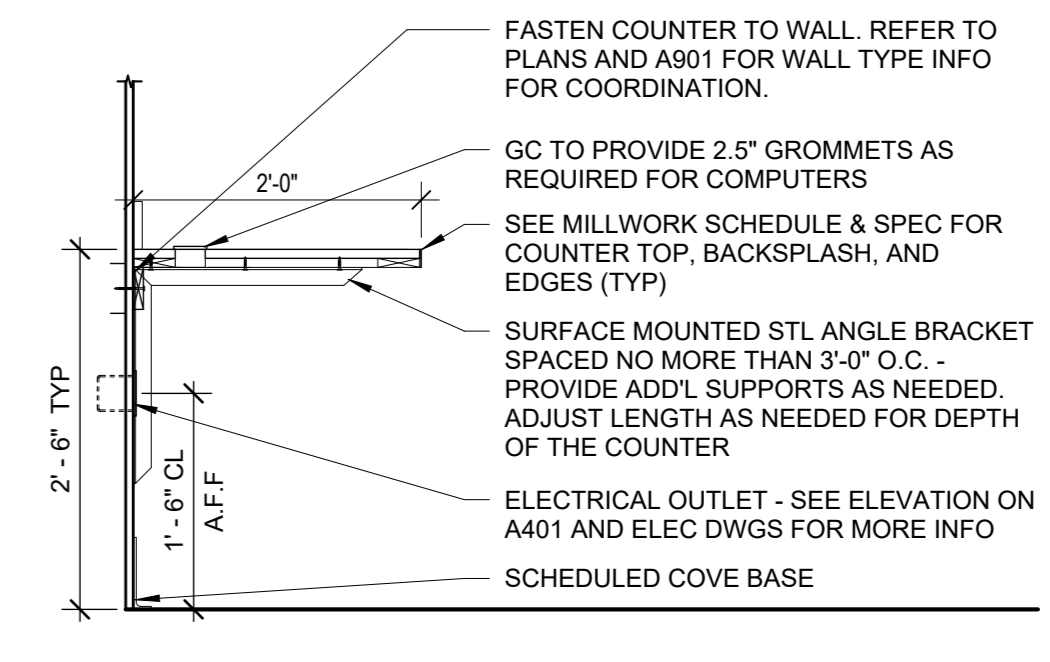
4 TYPICAL OPEN BASE CABINET
3/4" = 1'-0"



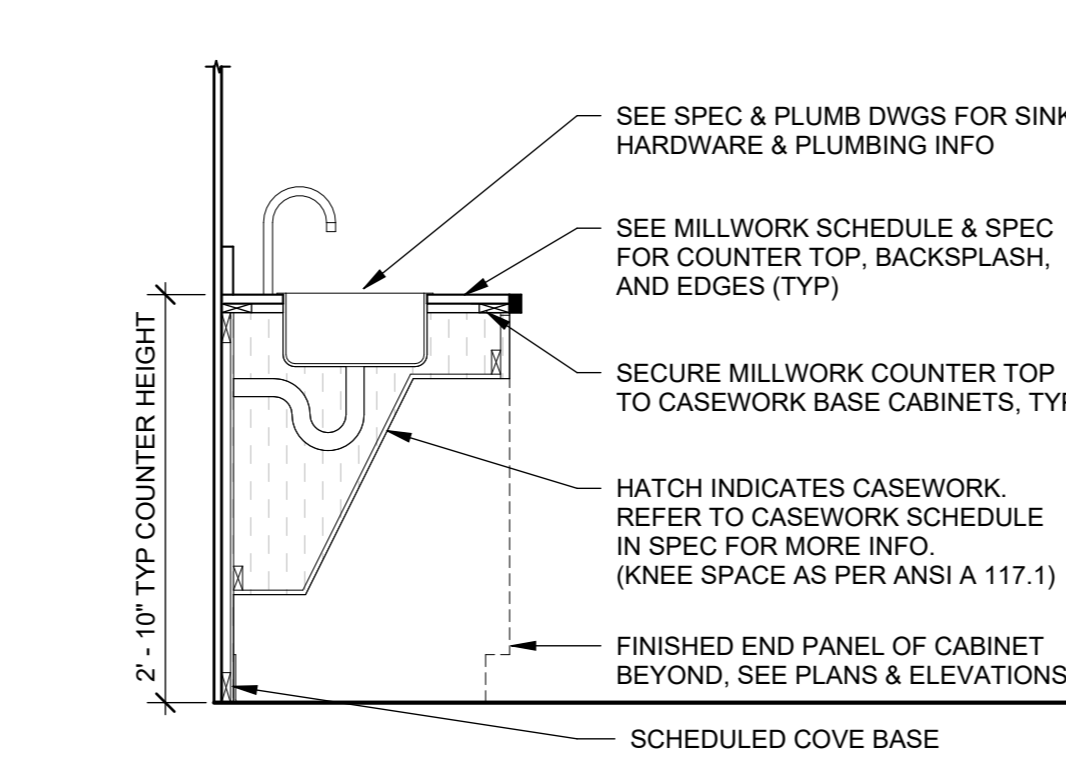
15 COUNTER WITH BRACKETS TYP.
3/4" = 1'-0"



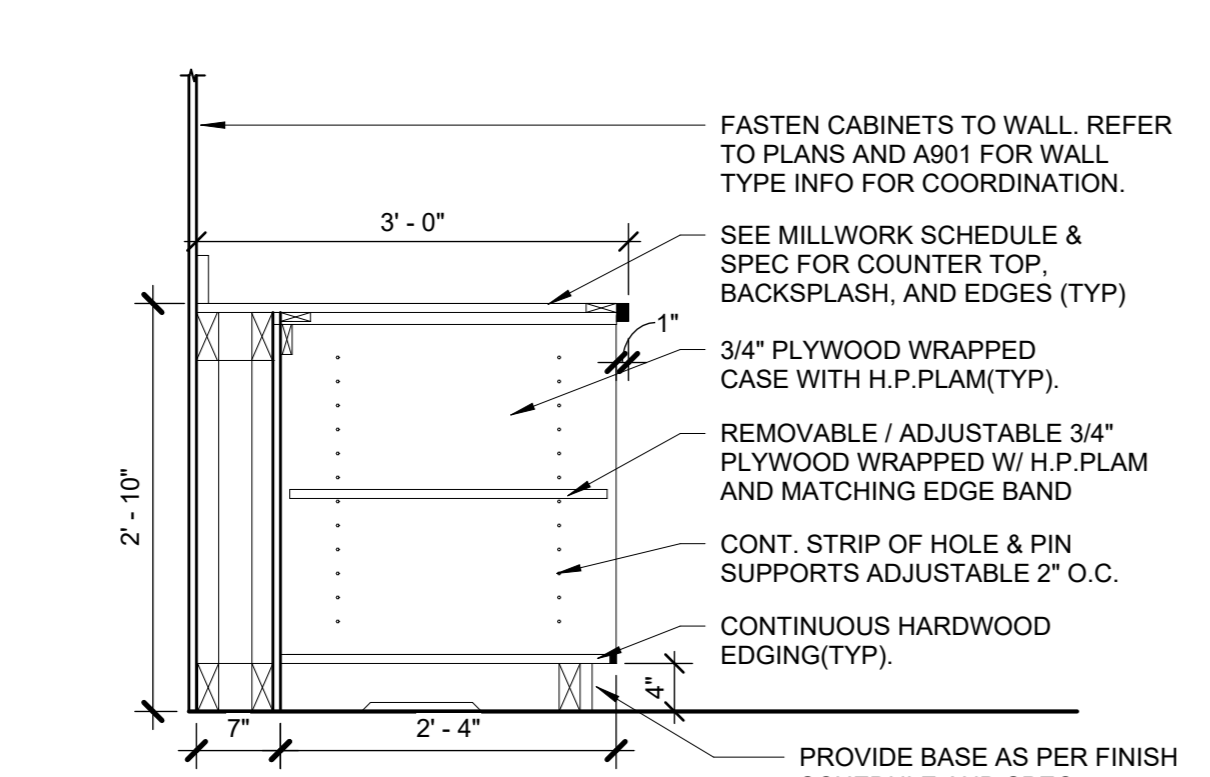
9 TYPICAL BASE CABINET WITH UPPER CABINET
3/4" = 1'-0"



5 TYPICAL COUNTER WITH BRACKETS
3/4" = 1'-0"



13 TYPICAL ADA SINK CASEWORK DETAIL
3/4" = 1'-0"



14 OPEN BASE CABINET TYP.
3/4" = 1'-0"

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|-----|------------|------------------------|
| 4 | 06/05/2024 | ISSUED FOR BID |
| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title

**MILLWORK
DETAILS**

| | | | |
|--------------|-------------|-----------------|------------|
| Job No. | 2020-1005 | Date | 06/01/2020 |
| Scale | AS NOTED | Drawn / Checked | - / - |
| Sheet Number | A440 | | |

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RECREATION &
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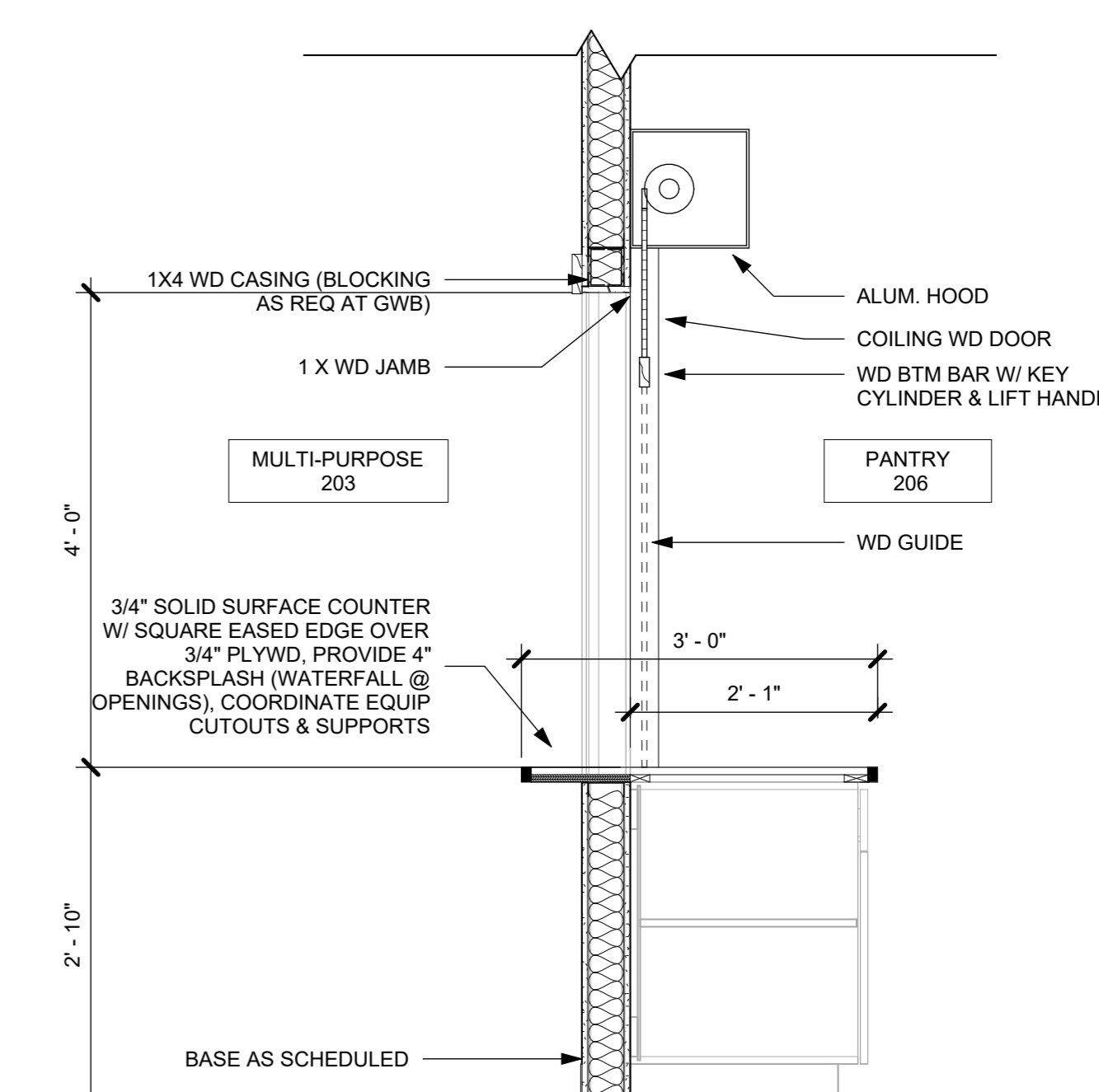
New Construction - Phase 2

Town / Village of Harrison

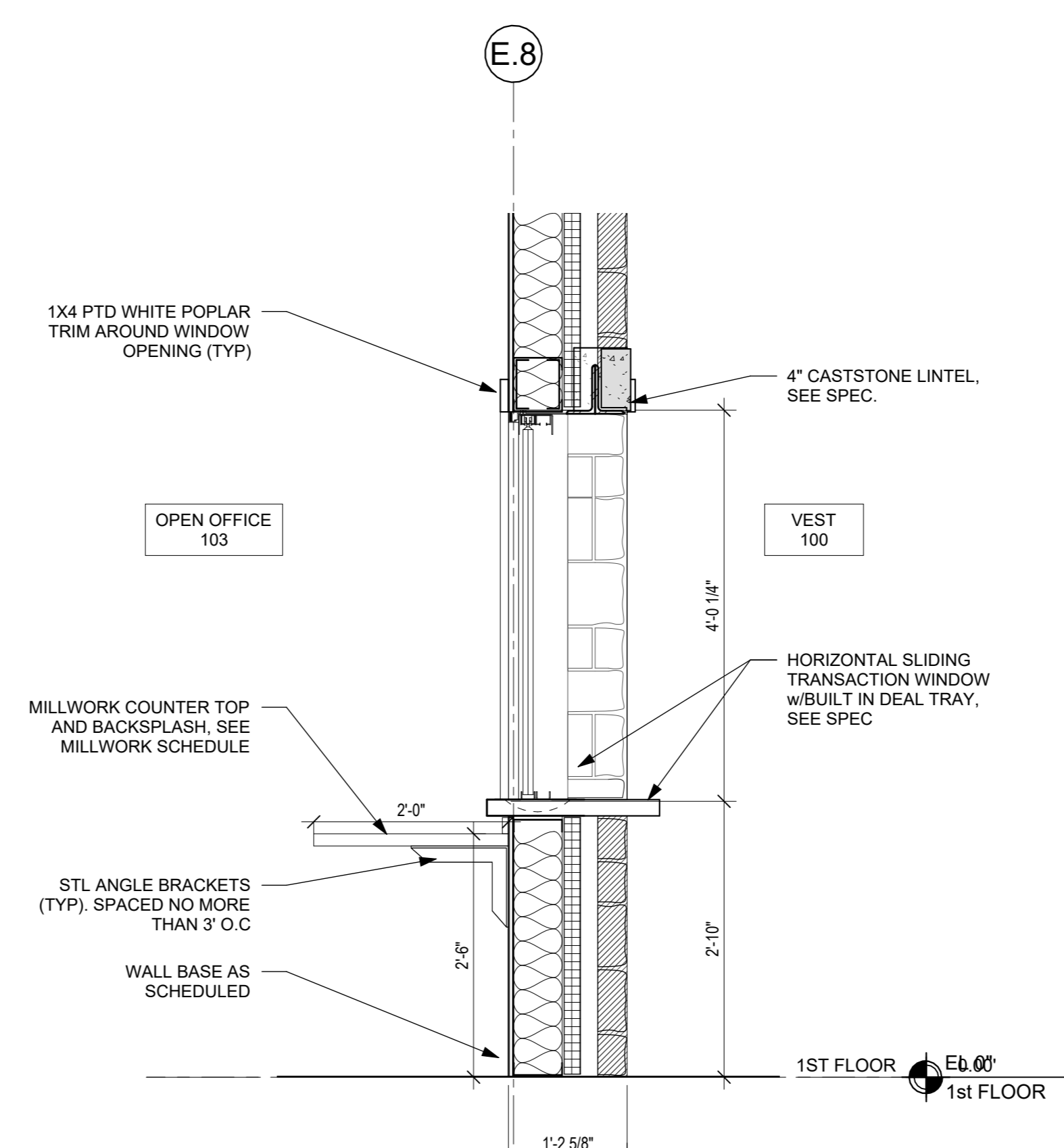
270 Harrison Avenue
Harrison, NY 10528



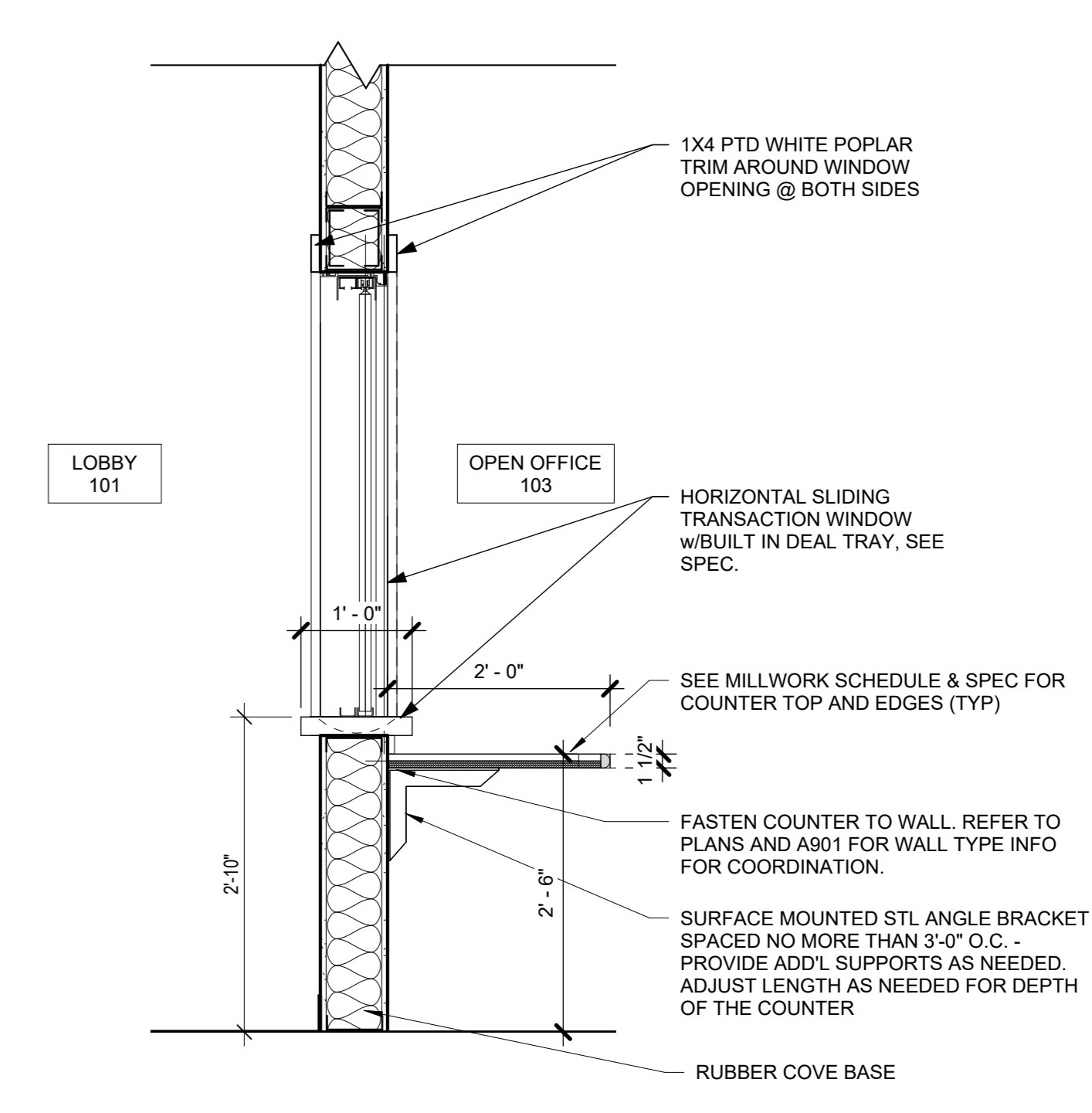
CONSTRUCTION DOCUMENTS



3 PANTRY 206 COUNTER DETAIL
3/4" = 1'-0"



2 TRANSACTION WINDOW @ VEST 1
3/4" = 1'-0"



1 TRANSACTION WINDOW @ OPEN OFFICE 103
3/4" = 1'-0"

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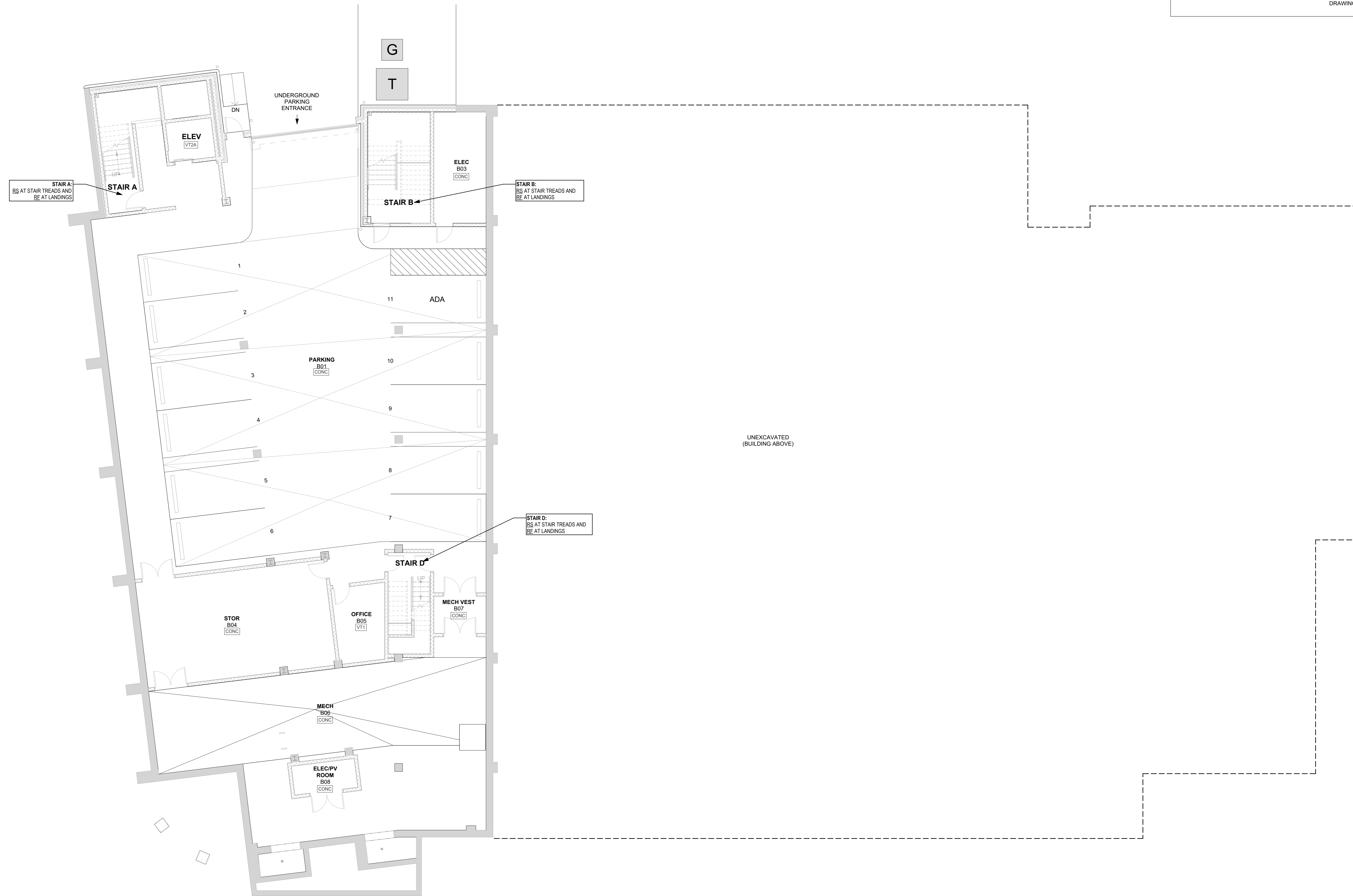
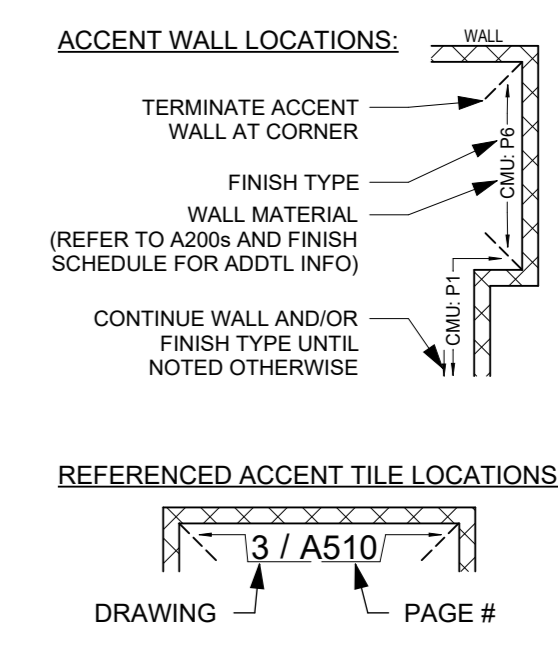
| Professional Seal | |
|-------------------|------|
| Name | Date |
| | |

**MILLWORK
DETAILS**

Job No. 2020-1005 Date 06/01/2020
Scale AS NOTED Drawn / Checked - -
Sheet Number **A441**

FINISH PLAN LEGEND

LVT1 TAG INDICATES FLOOR FINISH TYPE.
 FLOOR FINISH ORIENTATION (LENGTH TO FOLLOW ARROW)
 NOTE: MORE FINISHES ARE NOTED THROUGHOUT THE DRAWINGS AS WELL AS ON THE FINISH SCHEDULE AND IN THE SPECIFICATIONS.



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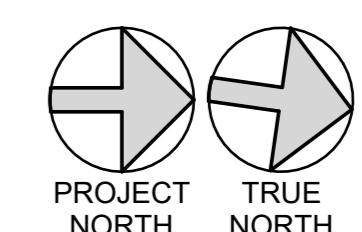
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| | | |
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| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

LOWER LEVEL FINISH PLAN

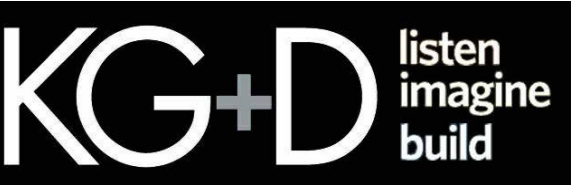
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| Job No. | 2020-1005 | Date | 12/27/23 |
| Scale | AS NOTED | Drawn / Checked | - / - |
| Sheet Number | A501 | | |



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270 Harrison Avenue
Harrison, NY 10528



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P:914.666.5900 KGDARCHITECTS.COM

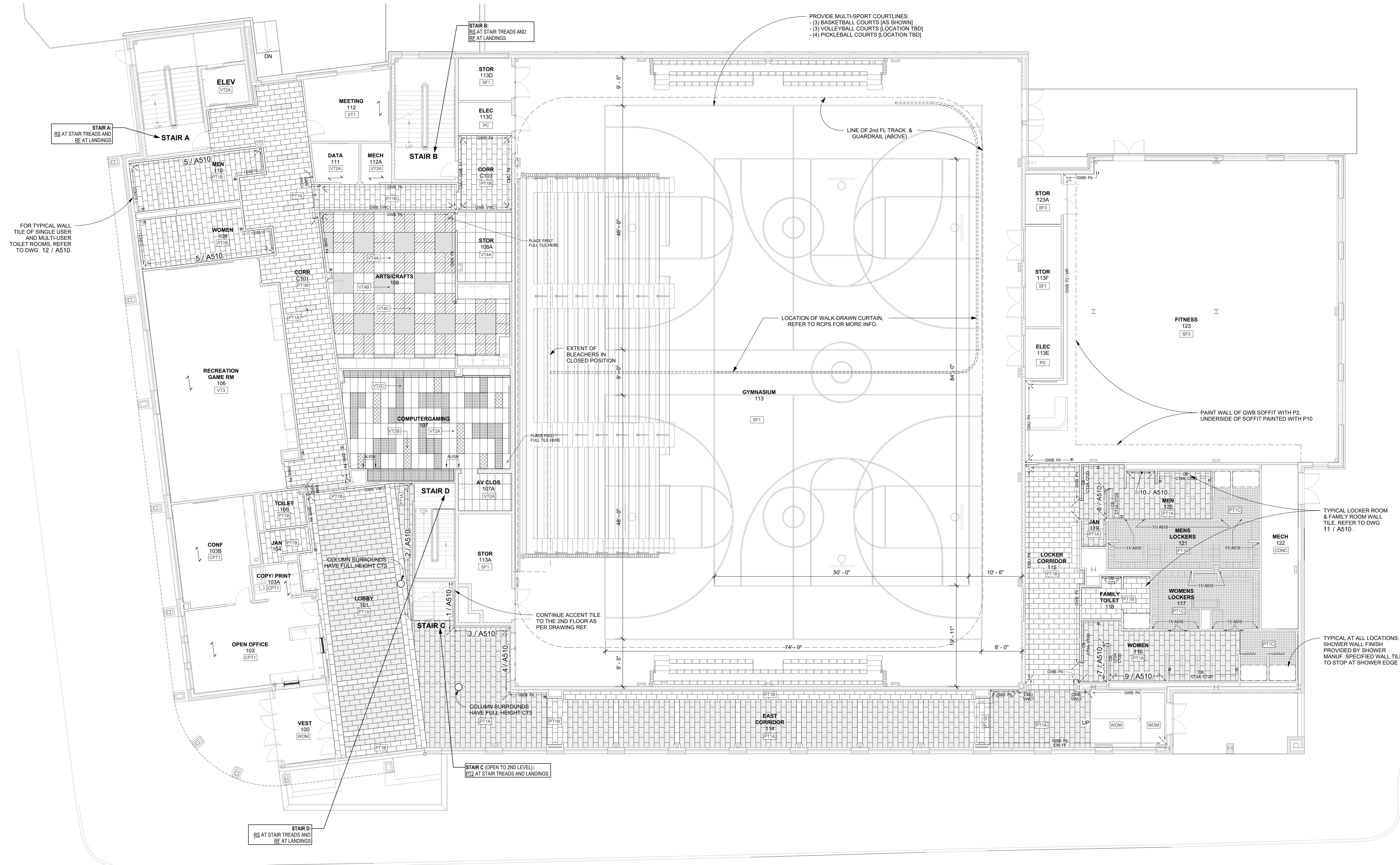
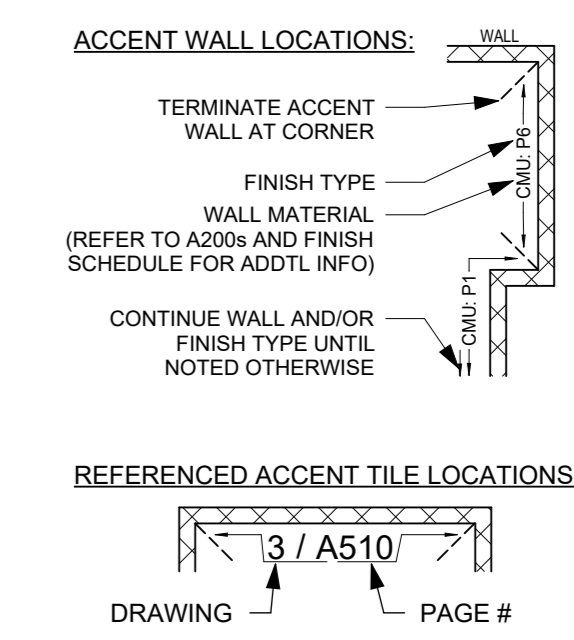
CONSTRUCTION DOCUMENTS

FLOOR PATTERN LEGEND FOR VINYL TILE:

- VT4A
- VT4B
- VT4C
- VT2A
- VT2B
- VT2C

FINISH PLAN LEGEND

- LVT1 TAG INDICATES FLOOR FINISH TYPE.
 - FLOOR FINISH ORIENTATION (LENGTH TO FOLLOW ARROW)
- NOTE: MORE FINISHES ARE NOTED THROUGHOUT THE DRAWINGS AS WELL AS ON THE FINISH SCHEDULE AND IN THE SPECIFICATIONS.



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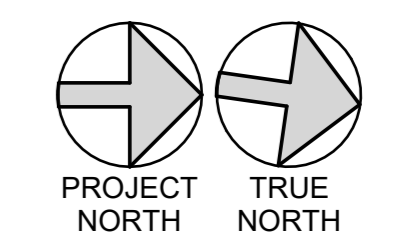
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| 4 | 06/05/2024 | ISSUED FOR BID |
| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

No. Date Issue

1st FLOOR PLAN FINISH PLAN

Job No. 2020-1005 Date 12/27/23
Scale AS NOTED Drawn / Checked
Sheet Number

A502



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New Construction - Phase 2

Town / Village of Harrison

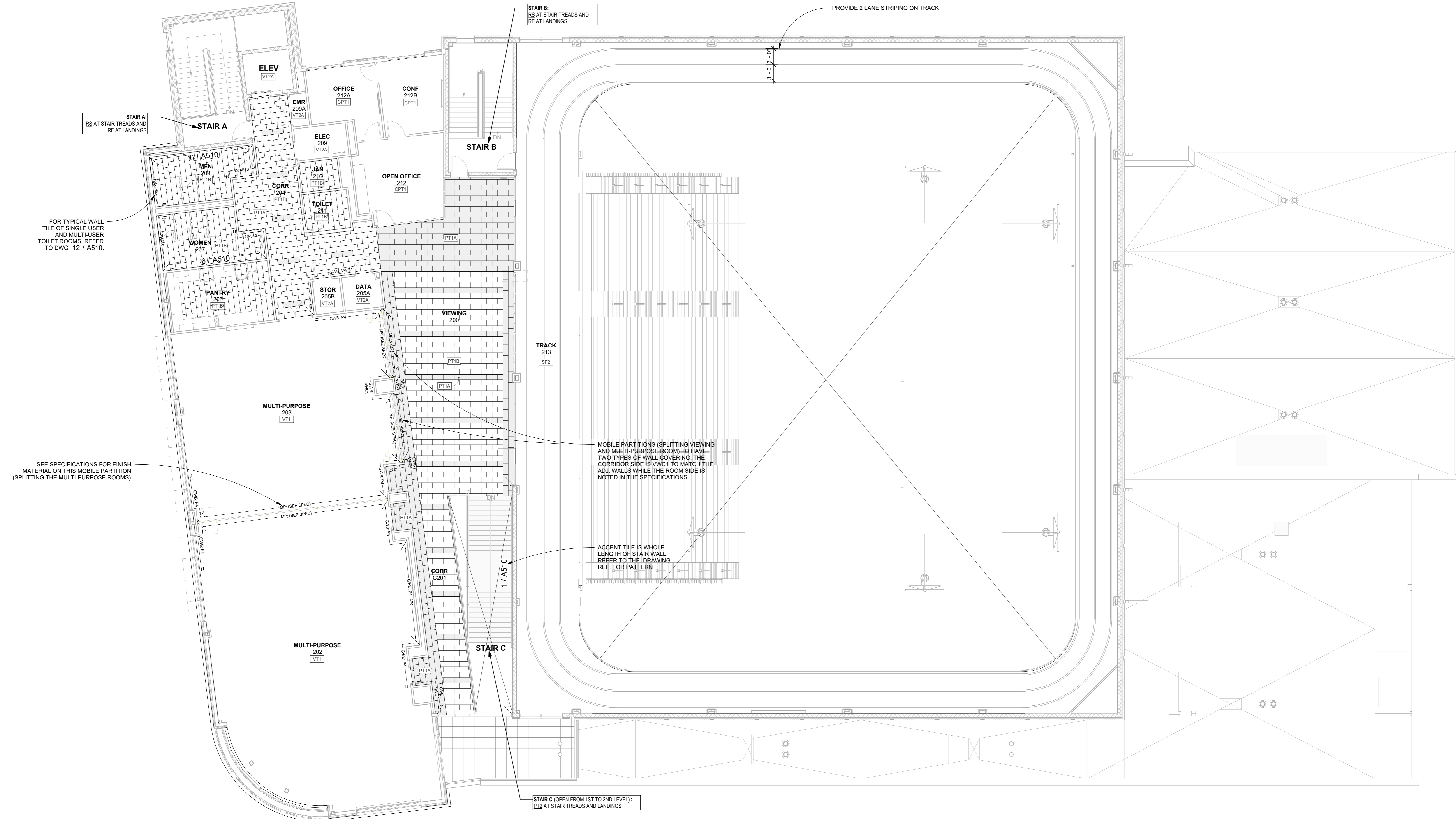
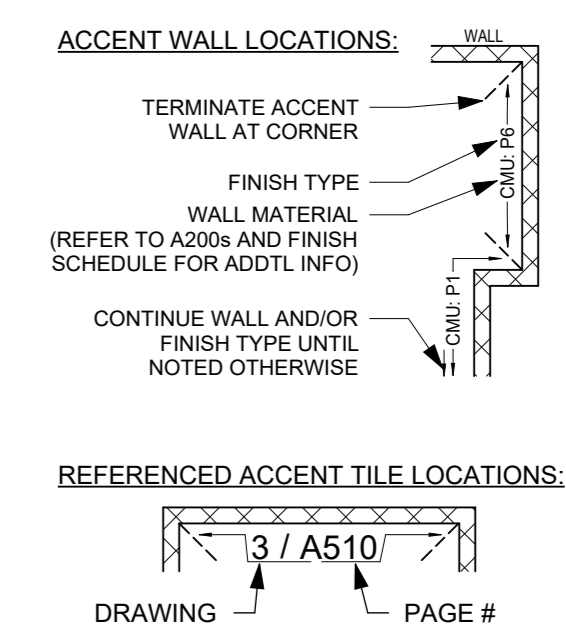
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CONSTRUCTION DOCUMENTS

FINISH PLAN LEGEND

- LVT1** TAG INDICATES FLOOR FINISH TYPE
- FLOOR FINISH ORIENTATION (LENGTH TO FOLLOW ARROW)
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| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

No. Date Issue

Sheet Title

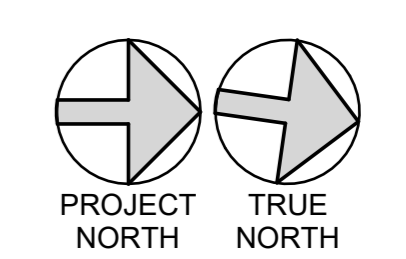
**2nd FLOOR PLAN
FINISH PLAN**

Job No. 2020-1005 Date 12/27/23

Scale AS NOTED Drawn / Checked - -

Sheet Number

A503

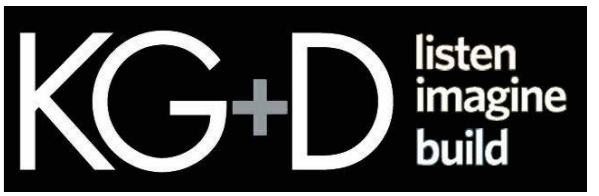


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Finish Schedule table with columns: ROOM #, ROOM NAME, FLOOR, NORTH WALL, EAST WALL, SOUTH WALL, WEST WALL, CEILING, COMMENTS. Rows include PARKING, 1st FLOOR (15A-213), and 2nd FLOOR (25A-213).

FINISH SCHEDULE NOTES

Table with two columns: ABBREVIATION FINISHES and ABBREVIATION NOTES. Lists materials like ACMU, ACT, AD, CB, CMU, CONC, CPT, CT, CW, EPO, EX, FF, FRP, GWB, MP, MR, OTS, PT, P, RB, RF, RS, SF, SV, VT, VWC, WOM, WP.

Revision table with columns: No., Date, Issue. Rows include 4/06/2024 ISSUED FOR BID, 3/01/16/2024 ISSUED FOR PERMIT, 2/06/01/2020 DESIGN DEVELOPMENT, 1/03/31/2020 50% DESIGN DEVELOPMENT.

FINISH SCHEDULE

Job No. 2020-1005 Date 03/31/2020
Scale AS NOTED Drawn / Checked - -

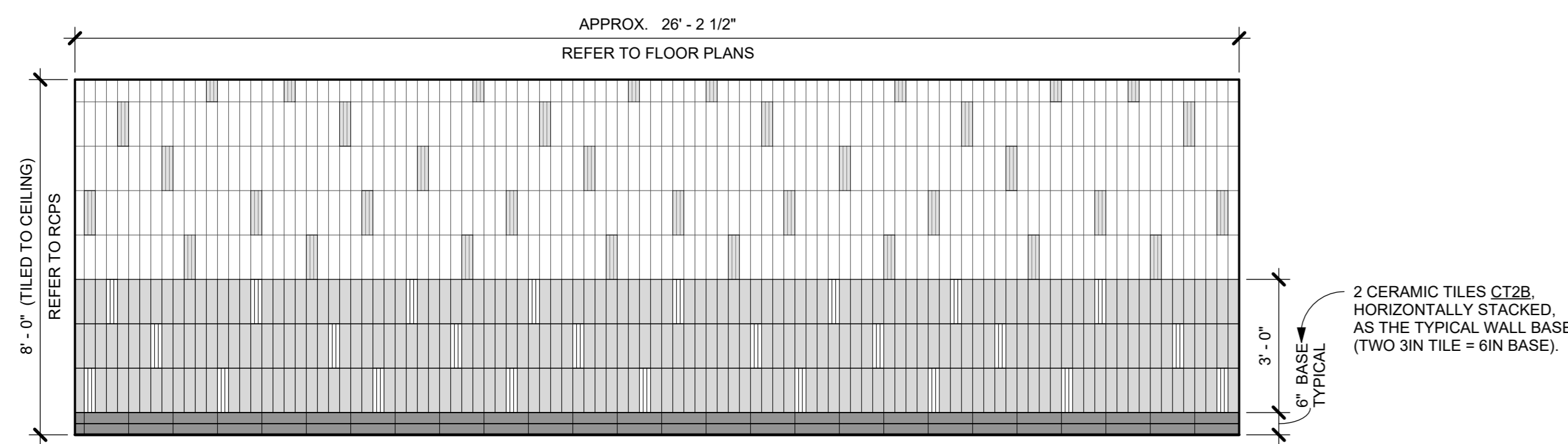
Sheet Number A504

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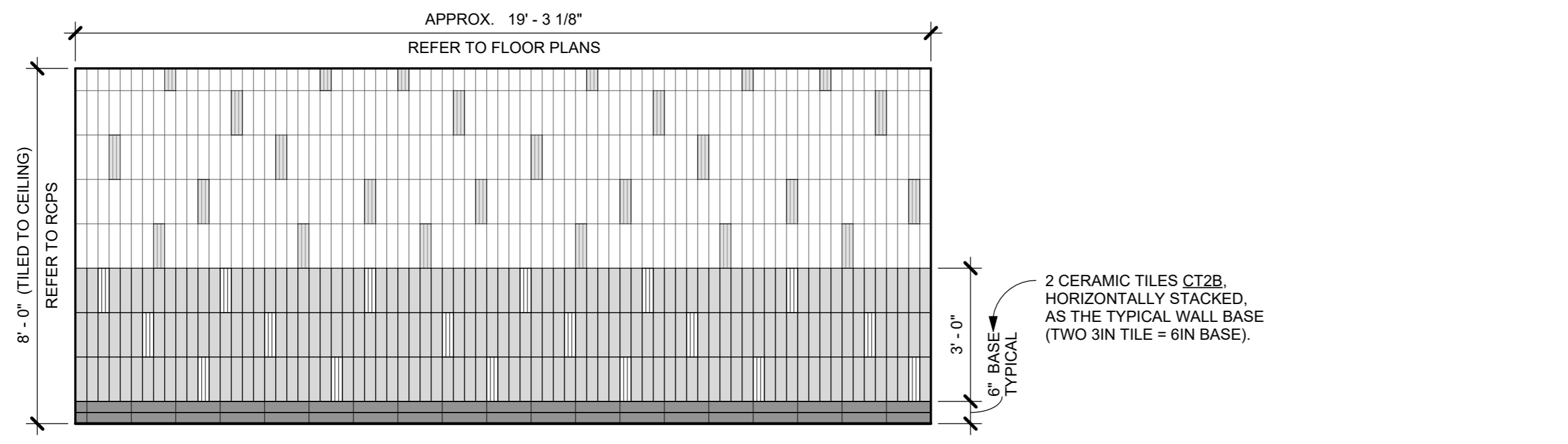
| LOBBY | | TOILET / LOCKER ROOMS | |
|-------|--------------------|-----------------------|--------------------|
| | CERAMIC TILE: CT1A | | CERAMIC TILE: CT2A |
| | CERAMIC TILE: CT1B | | CERAMIC TILE: CT2C |
| | CERAMIC TILE: CT1C | | CERAMIC TILE: CT2D |
| | CERAMIC TILE: CT1D | | CERAMIC TILE: CT2E |
| | CERAMIC TILE: CT1E | | CERAMIC TILE: CT2B |
| | CERAMIC TILE: CT1F | | |

GENERAL NOTES:
- REFER TO TILE ELEVATIONS (ON A510) AND SPEC FOR WALL TILE PATTERN ORIENTATION.
- ALL OUTSIDE EDGES/ CORNERS OF TILE TO HAVE SCHLUTER EDGES. COORDINATE WITH PLANS FOR LOCATIONS

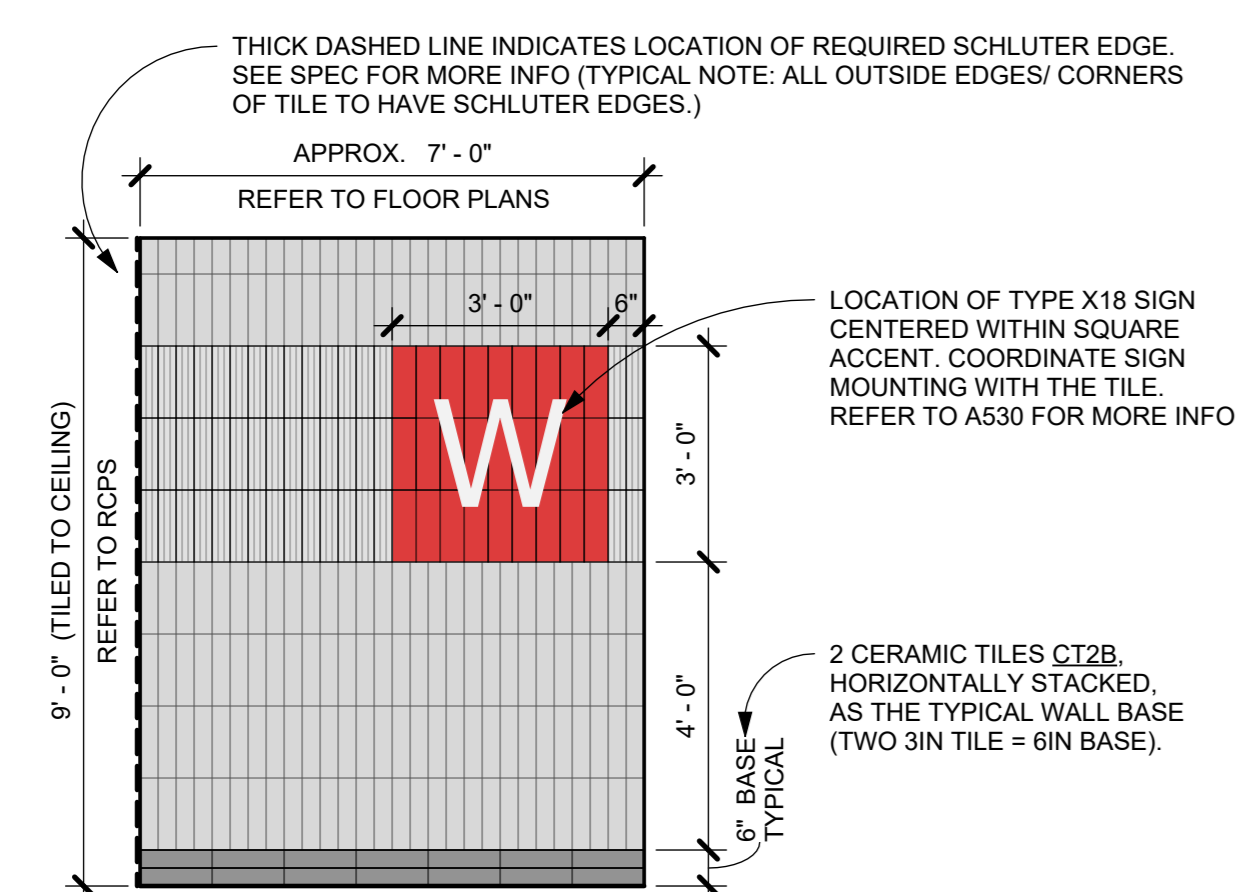
(A) WALL TILE LEGEND + NOTES
3/8" = 1'-0"



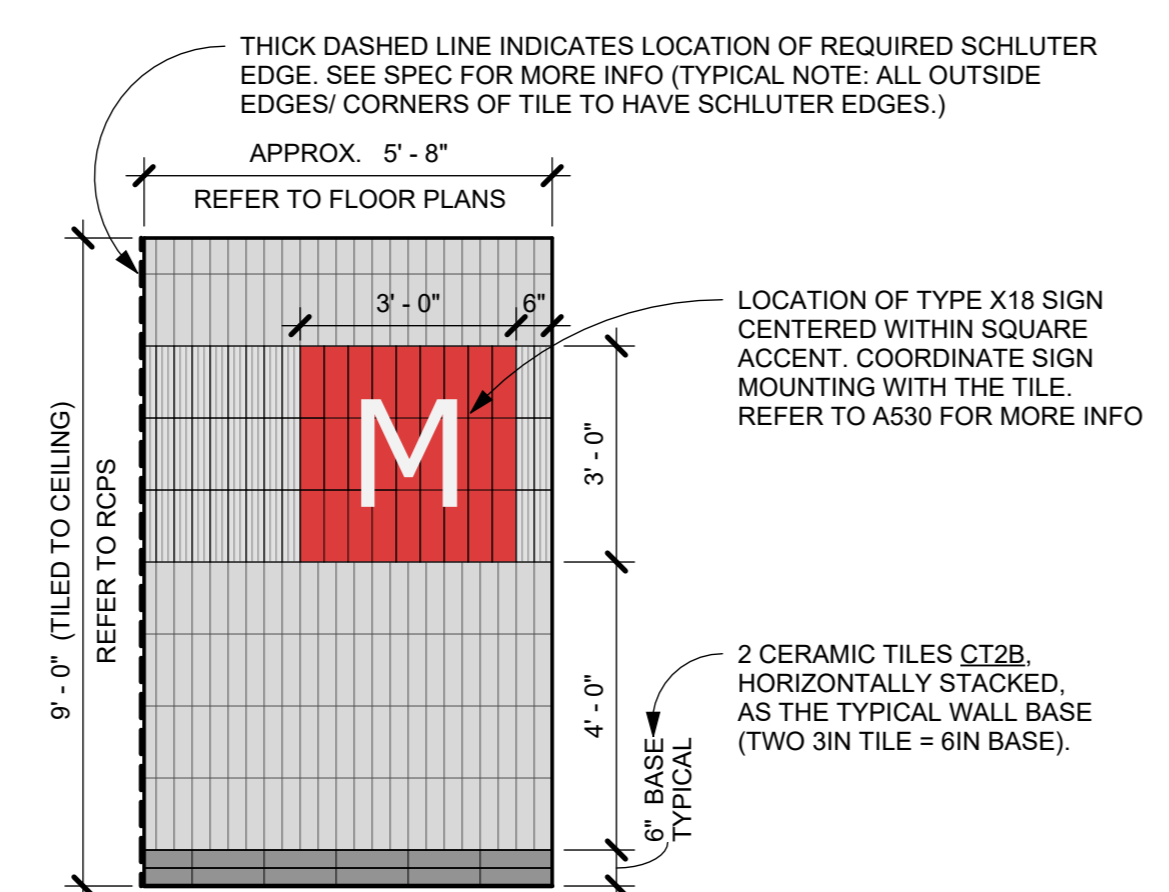
5 1ST FLOOR TOILET ROOMS (109 + 110) - ACCENT WALL
3/8" = 1'-0"



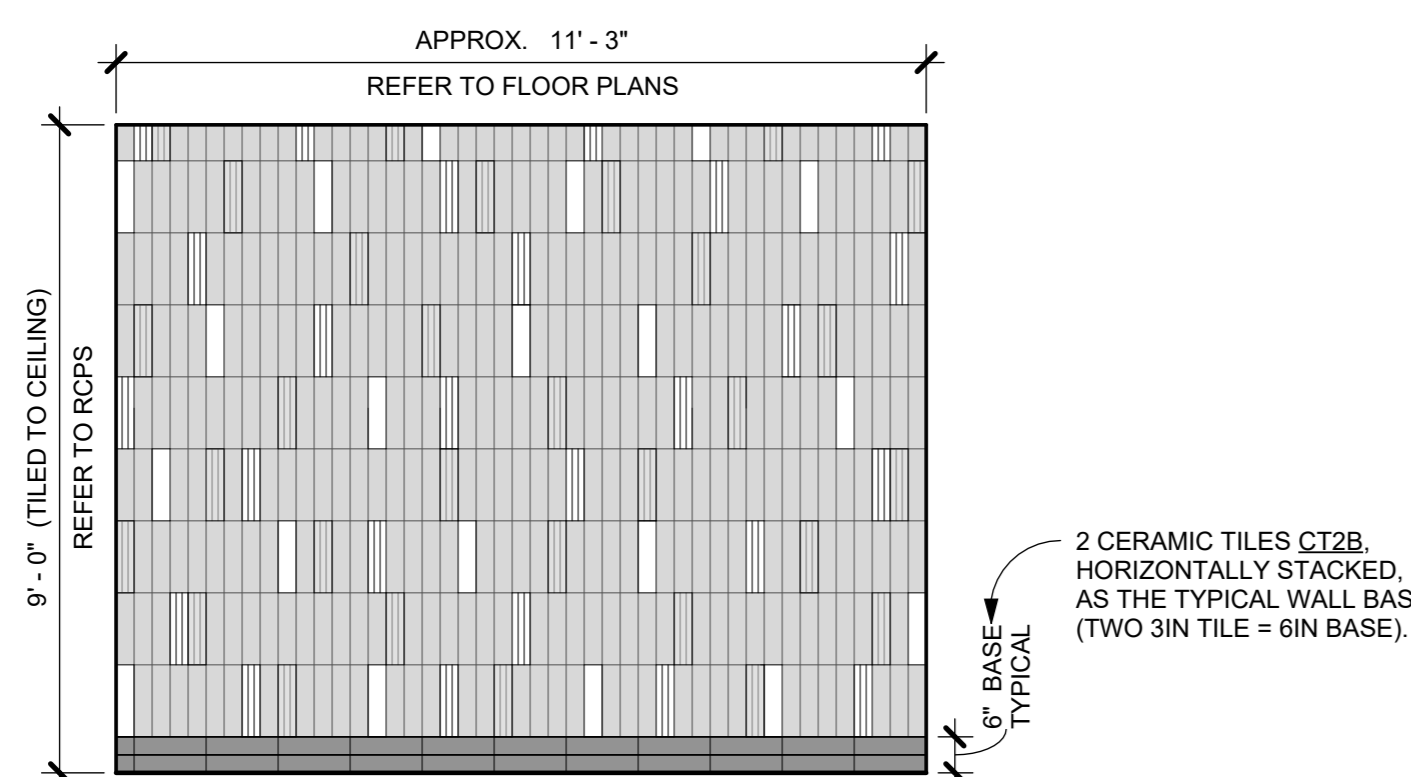
6 2ND FLOOR TOILET ROOMS (207 + 208) - ACCENT WALL
3/8" = 1'-0"



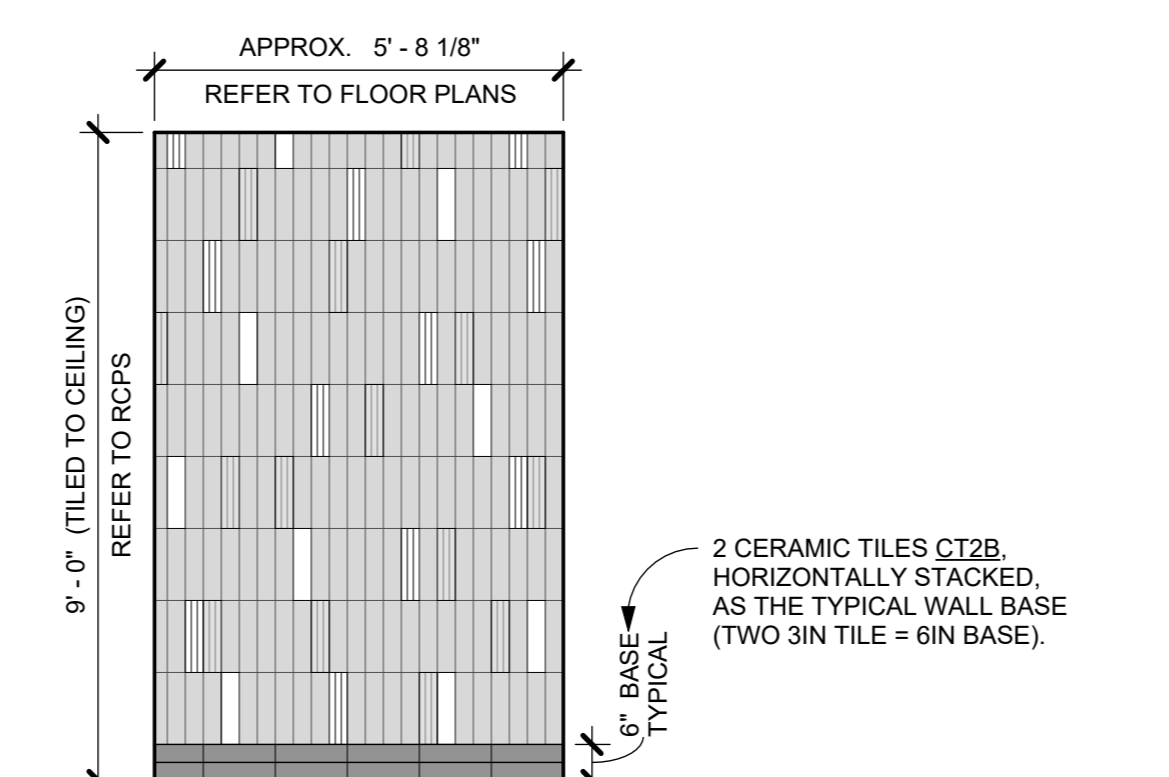
7 WOMEN'S LOCKER ROOM - ENTRY ACCENT WALL
3/8" = 1'-0"



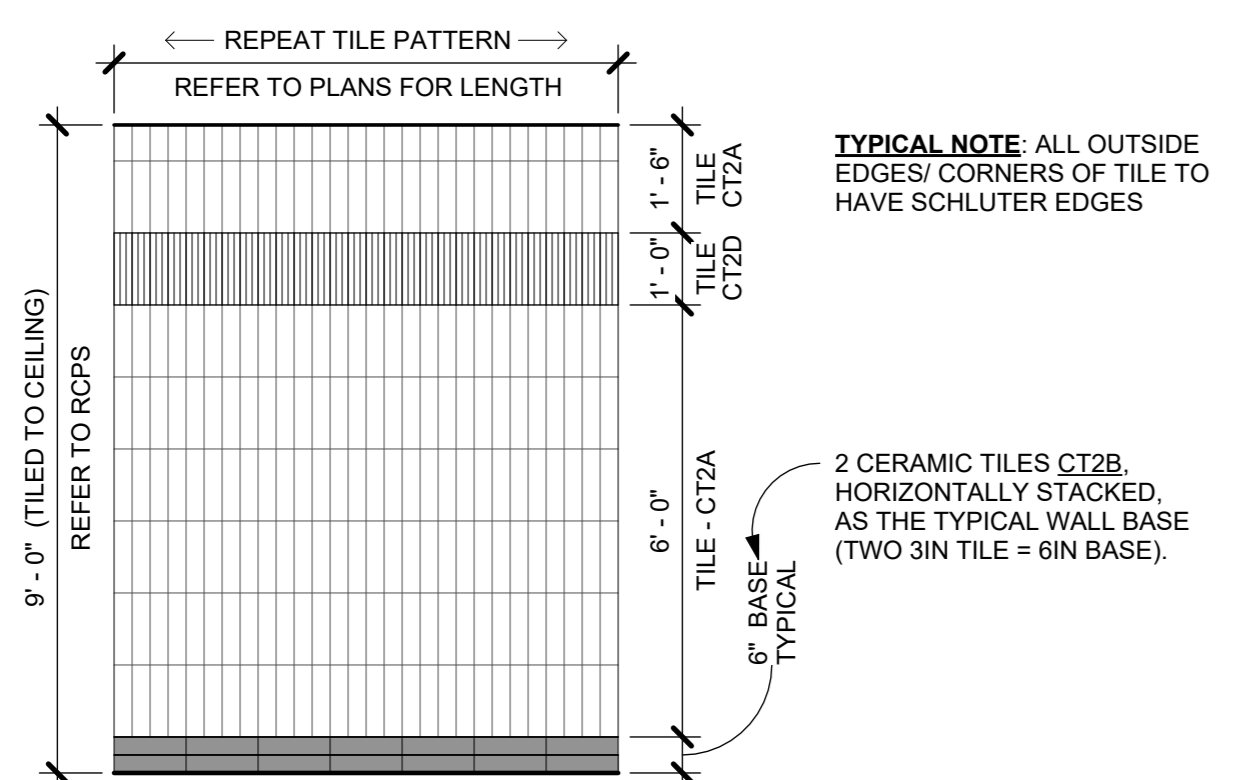
8 MEN'S LOCKER ROOM - ENTRY ACCENT WALL
3/8" = 1'-0"



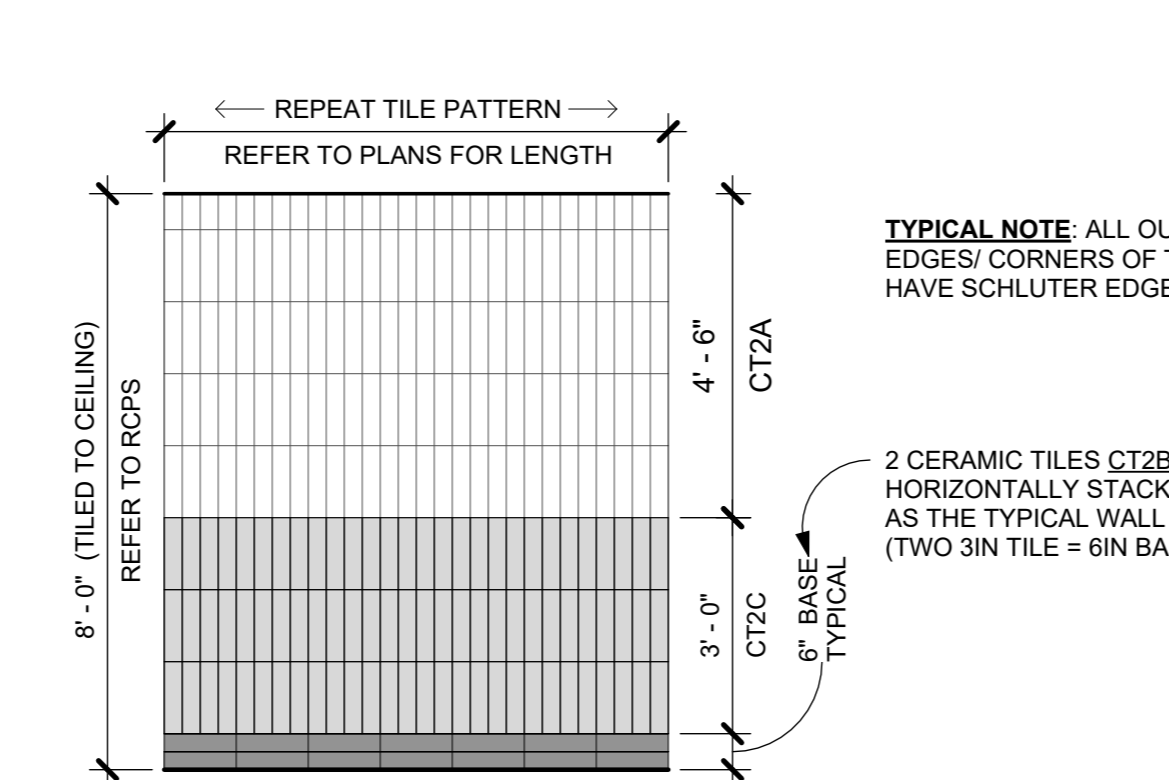
9 WOMEN'S LOCKER ROOM - SINK ACCENT WALL
3/8" = 1'-0"



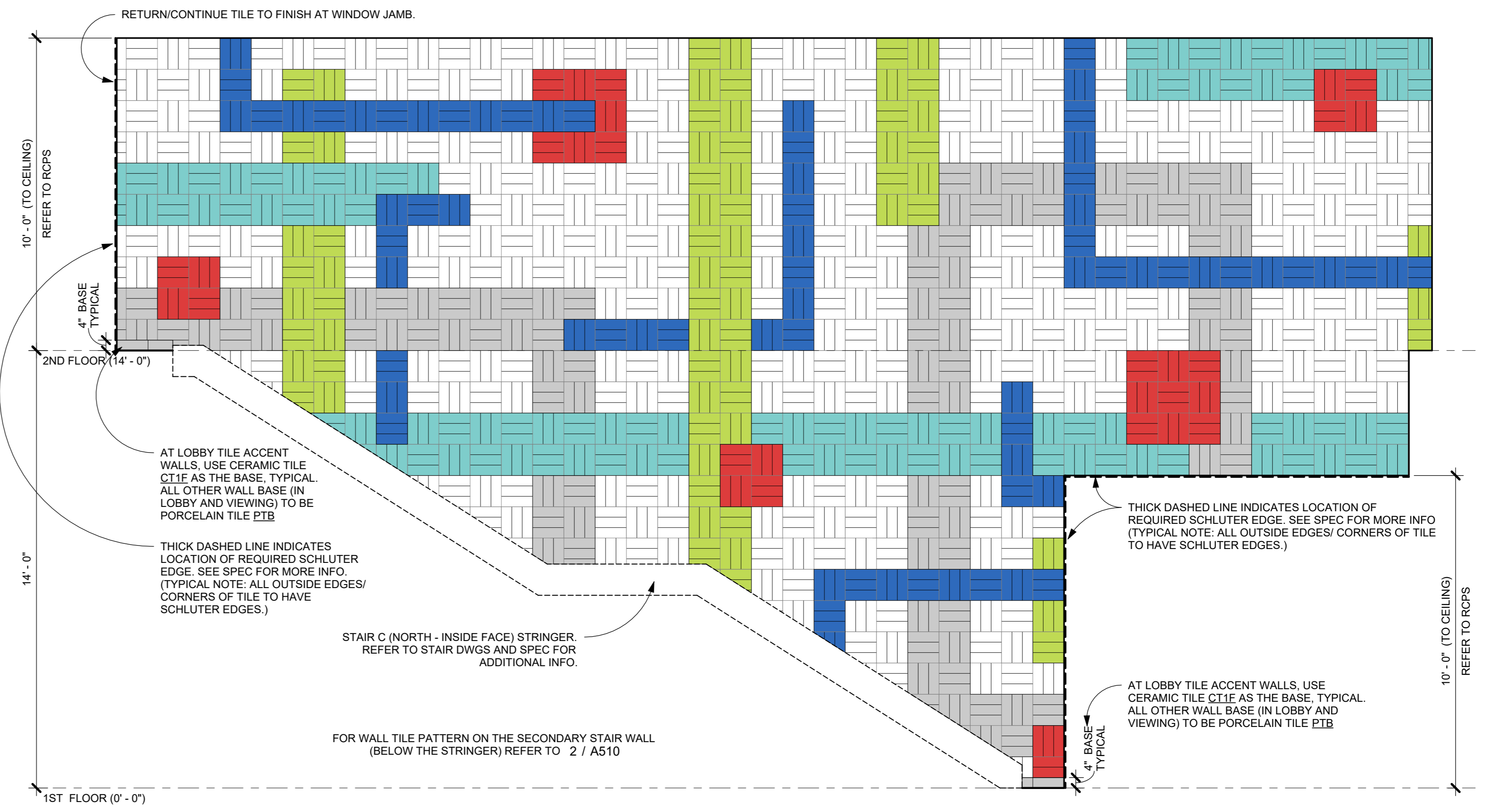
10 MEN'S LOCKER ROOM - SINK ACCENT WALL
3/8" = 1'-0"



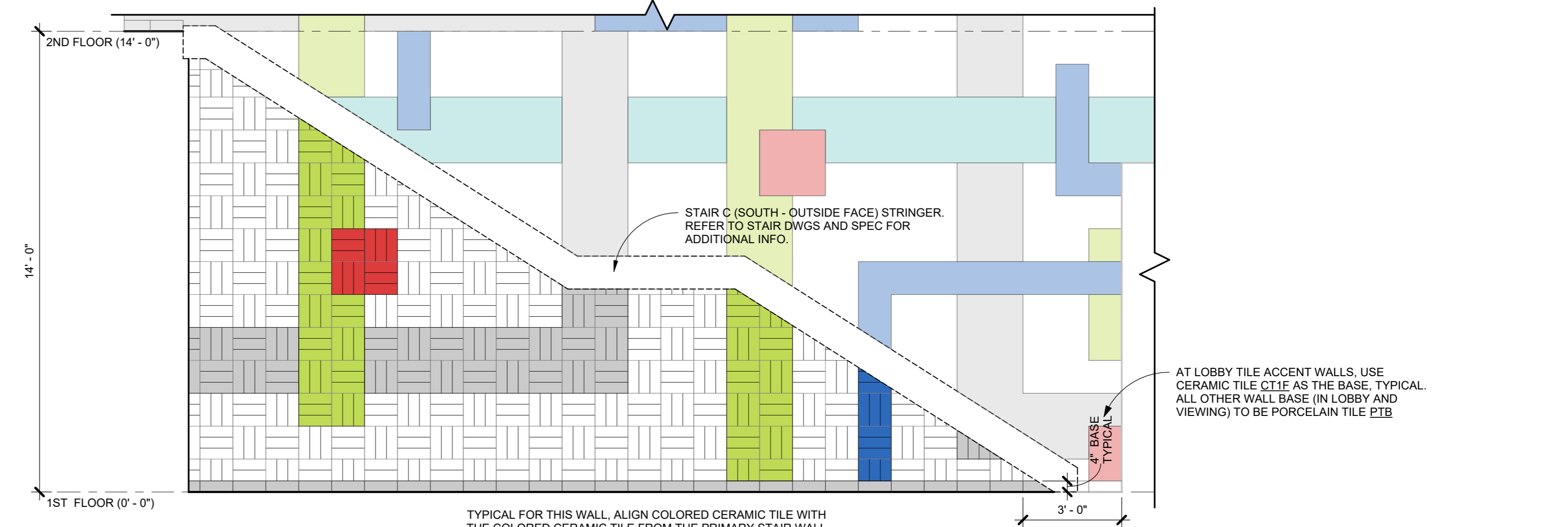
11 TYPICAL LOCKER ROOM TILED WALL
3/8" = 1'-0" TYPICAL WALL FOR THE LOCKER ROOM AREA (ROOMS 116, 117, 118, 120, AND 121)



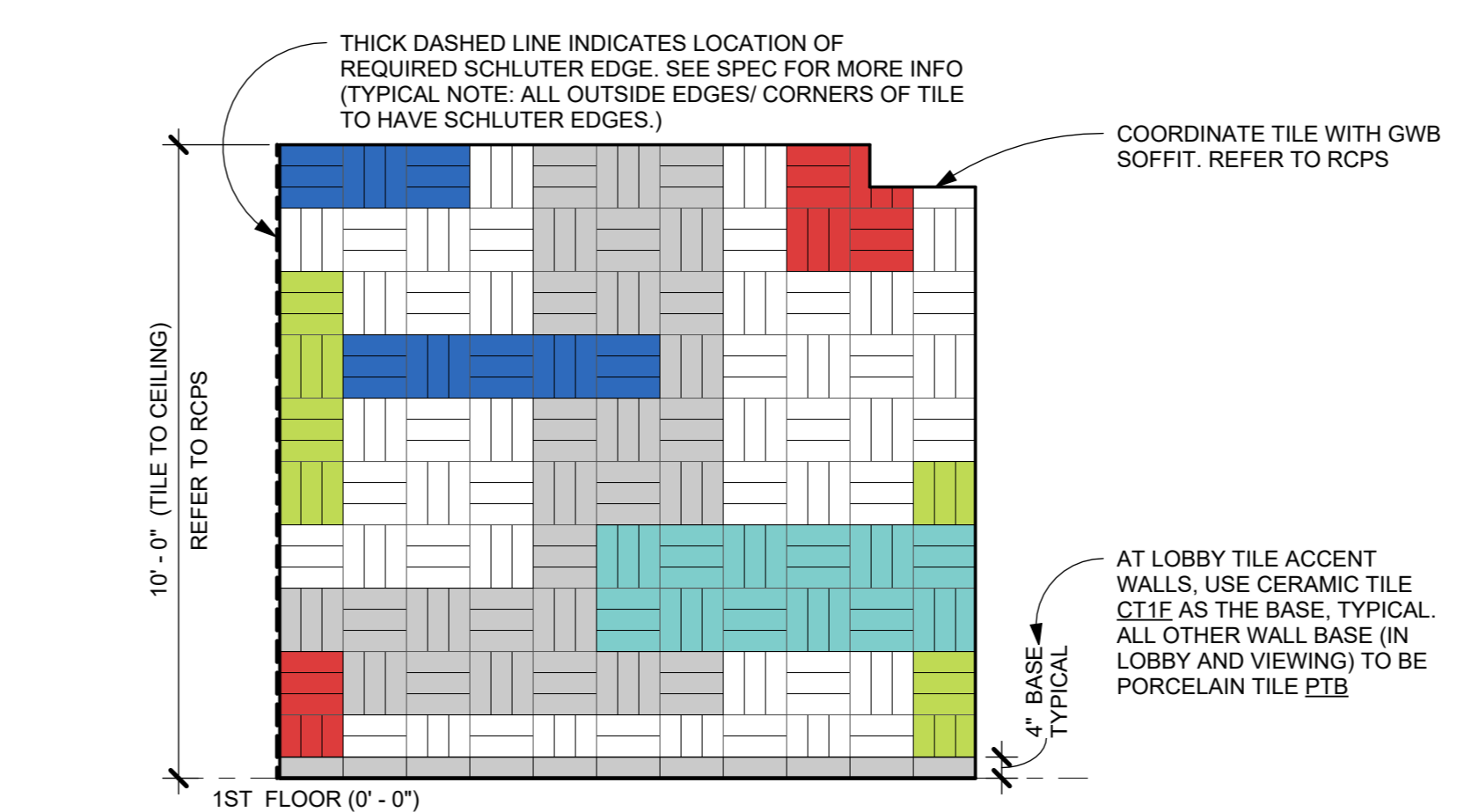
12 TYPICAL TOILET ROOM TILED WALL
3/8" = 1'-0" TYPICAL WALL FOR SINGLE USER AND MULTI-USER TOILET ROOMS (ROOMS 105, 109, 110, 207, 208 AND 211)



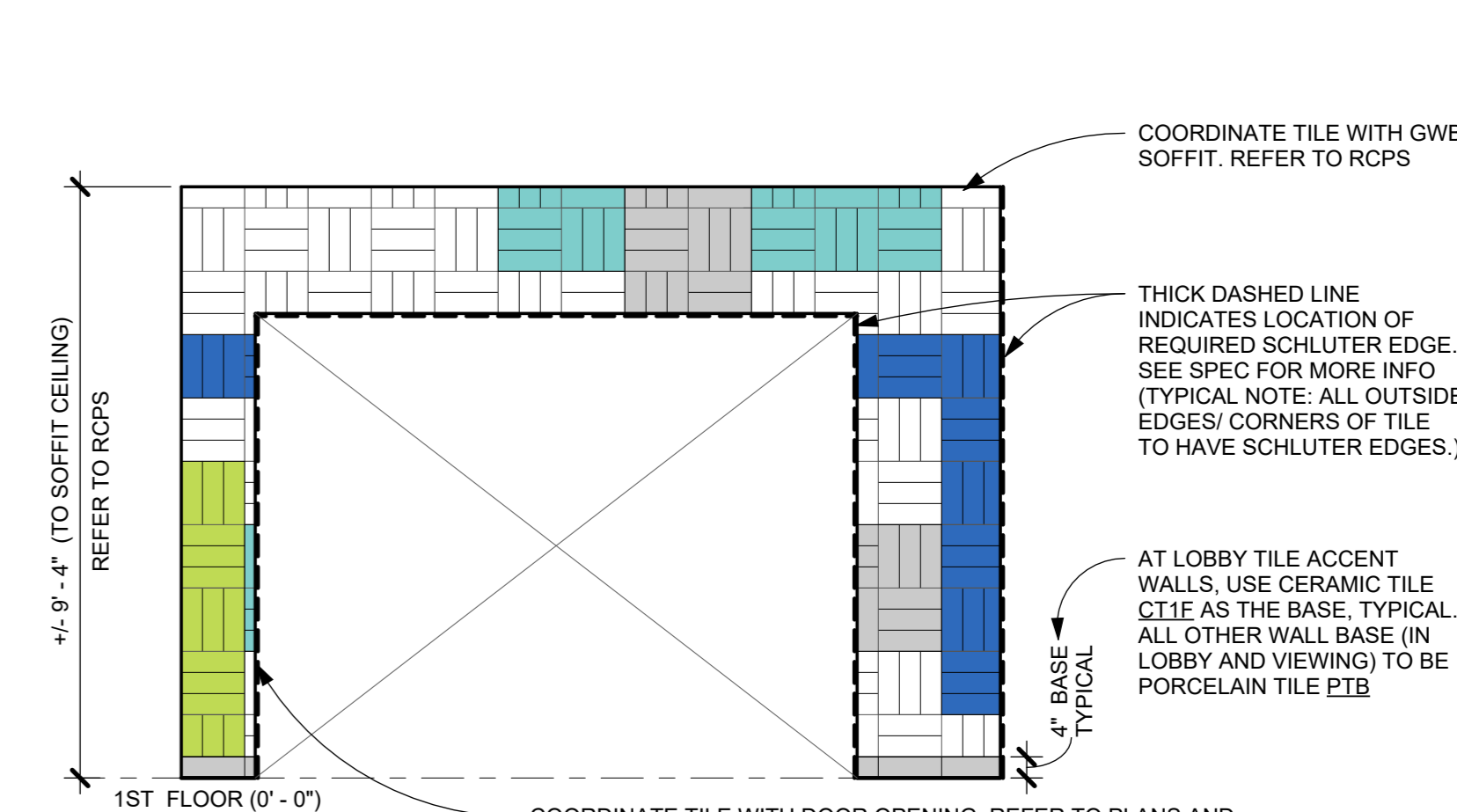
1 LOBBY - ACCENT TILED WALL 1
3/8" = 1'-0"



2 LOBBY - ACCENT TILED WALL 2
3/8" = 1'-0"



3 LOBBY - ACCENT TILED WALL 3
3/8" = 1'-0"



4 LOBBY - ACCENT TILED WALL 4
3/8" = 1'-0"

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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

ACCENT WALL TILE PATTERNS

| | | | |
|--------------|-----------|-----------------|------------------|
| Job No. | 2020-1005 | Date | 01/27/24 |
| Scale | AS NOTED | Drawn / Checked | Author / Checker |
| Sheet Number | | | |

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D listen
imagine
build
KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

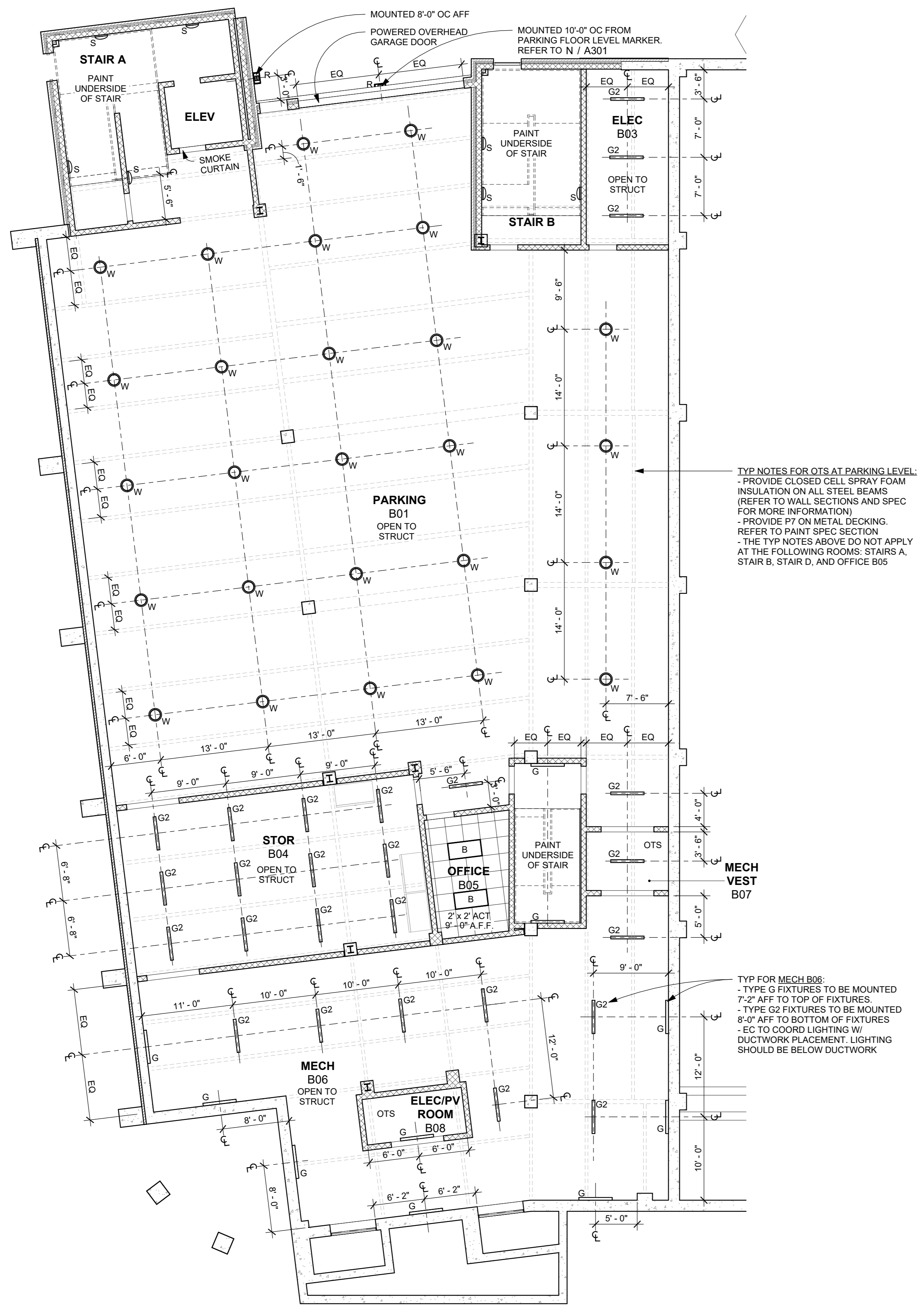
CEILING LEGEND

- PROJECTOR SCREEN
- ⊕ PROJECTOR
- ⊕ LIGHT FIXTURE W/ CORRESPONDING TAG (SEE LIGHTING SCHEDULE ON E604 FOR MORE INFORMATION)
- ⊕ LIGHT FIXTURE TAG (REFER TO ELEC DWGS FOR MORE INFO)
- ⊕ GYP CEILING SYSTEM
- ⊕ ACT CEILING SYSTEM
- ⊕ OPEN TO STRUCTURE

NOTE: THIS LEGEND DOES NOT SHOW EVERY GRAPHIC REPRESENTATION FOR EACH LIGHT FIXTURE TYPE. REVIEW EACH RCP, ELEC DWGS, & THE LIGHTING SCHED FOR MORE INFO

CEILING GENERAL NOTES

1. CEILING GRIDS SHALL BE CENTERED IN ROOM OR SPACE.
2. ALL CEILING MOUNTED ELEMENTS, INCLUDING, BUT NOT LIMITED TO: EXIT SIGNS, HVAC REGISTERS, SPRINKLER HEADS, WIRELESS ACCESS POINTS, ETC. SHALL BE CENTERED IN CEILING TILES.
3. SEE MEP DRAWINGS FOR LIGHTING FIXTURE SCHEDULE & OTHER CEILING MOUNTED ELECTRICAL, MECHANICAL & PLUMBING ELEMENTS.
4. SEE FINISH SCHEDULE & SPECIFICATIONS FOR CEILING MATERIALS & FINISHES.
5. CEILING HEIGHTS SHOWN IN PLANS SHALL TAKE PRECEDENCE OVER HEIGHTS INDICATED ELSEWHERE.
6. CONTRACTOR SHALL CONFIRM ALL LIGHT FIXTURE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
7. CONTRACTOR TO CONFIRM LOCATIONS OF ALL SLOT DIFFUSERS, SPRINKLER HEADS, SMOKE DETECTORS, ETC. MOUNTED IN GWB OR SPECIALTY CEILING / WALLS WITH ARCHITECT PRIOR TO INSTALLATION.



1 LOWER LEVEL and PARKING - CEILING PLAN
1/8" = 1'-0"

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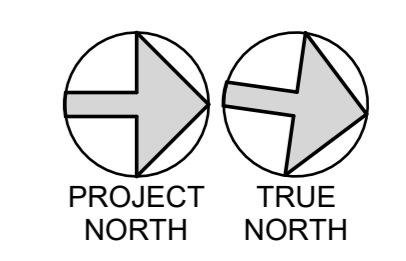
Professional Seal

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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

**LOWER LEVEL
REFLECTED
CEILING PLAN**

| | | | |
|---------|-----------|-----------------|------------|
| Job No. | 2020-1005 | Date | 06/01/2020 |
| Scale | AS NOTED | Drawn / Checked | |

Sheet Number
A601

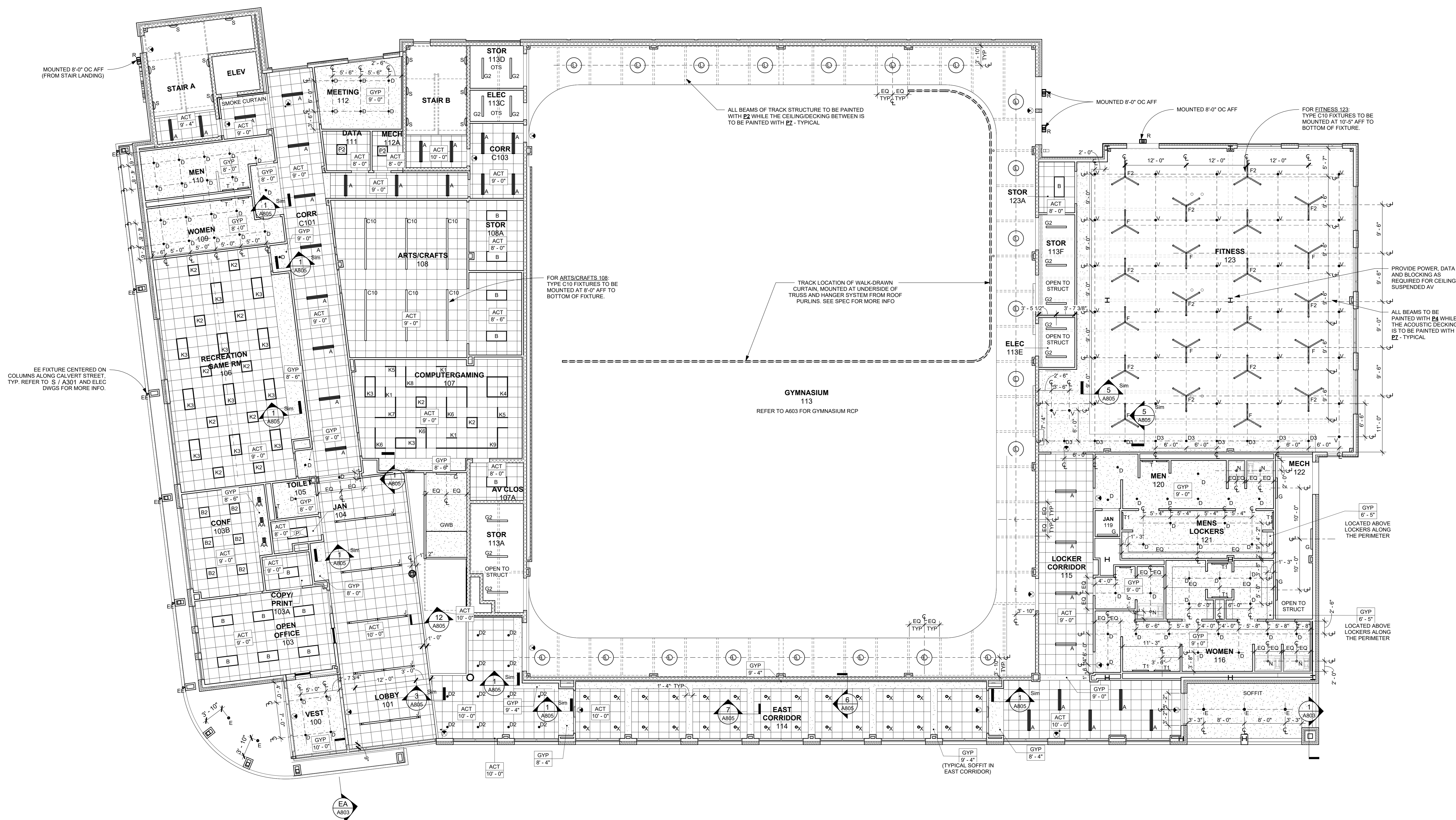


CEILING LEGEND

- PROJECTOR SCREEN
- ⊕ PROJECTOR
- ⊞ LIGHT FIXTURE W/ CORRESPONDING TAG (SEE LIGHTING SCHEDULE ON E604 FOR MORE INFORMATION)
- ⊞ LIGHT FIXTURE TAG (REFER TO ELEC DWGS FOR MORE INFO)
- ⊞ NOTE: THIS LEGEND DOES NOT SHOW EVERY GRAPHIC REPRESENTATION FOR EACH LIGHT FIXTURE TYPE. REVIEW EACH RCP, ELEC DWGS, & THE LIGHTING SCHED FOR MORE INFO
- ⊞ LIGHT FIXTURE CENTERED IN ROOM/CEILING, COORDINATE W/ ELEC DWGS
- ⊞ LIGHT FIXTURE TAG (REFER TO ELEC DWGS FOR MORE INFO)
- ⊞ GYP CEILING SYSTEM
- ⊞ ACT CEILING SYSTEM
- ⊞ OPEN TO STRUCTURE

CEILING GENERAL NOTES

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1st FLOOR REFLECTED CEILING PLAN

Job No. 2020-1005 Date 03/31/2020
Scale AS NOTED Drawn / Checked
Sheet Number

A602

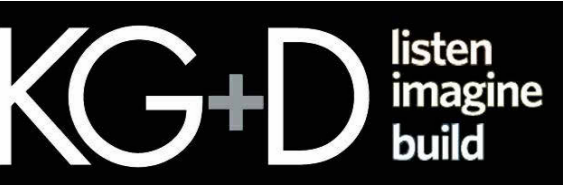
1 1st FLOOR RCP
1/8" = 1'-0"

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

CEILING LEGEND

- PROJECTOR SCREEN
- ⊕ PROJECTOR
- LIGHT FIXTURE W/ CORRESPONDING TAG (SEE LIGHTING SCHEDULE ON E604 FOR MORE INFORMATION)
- LIGHT FIXTURE TAG (REFER TO ELEC DWGS FOR MORE INFO)
- LIGHT FIXTURE CENTERED IN ROOM/CEILING, COORDINATE W/ ELEC DWGS
- GYP CEILING SYSTEM
- ACT CEILING SYSTEM
- OPEN TO STRUCTURE

NOTE: THIS LEGEND DOES NOT SHOW EVERY GRAPHIC REPRESENTATION FOR EACH LIGHT FIXTURE TYPE. REVIEW EACH RCP, ELEC DWGS, & THE LIGHTING SCHED FOR MORE INFO

- ### CEILING GENERAL NOTES
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1 2nd FLOOR RCP
1/8" = 1'-0"

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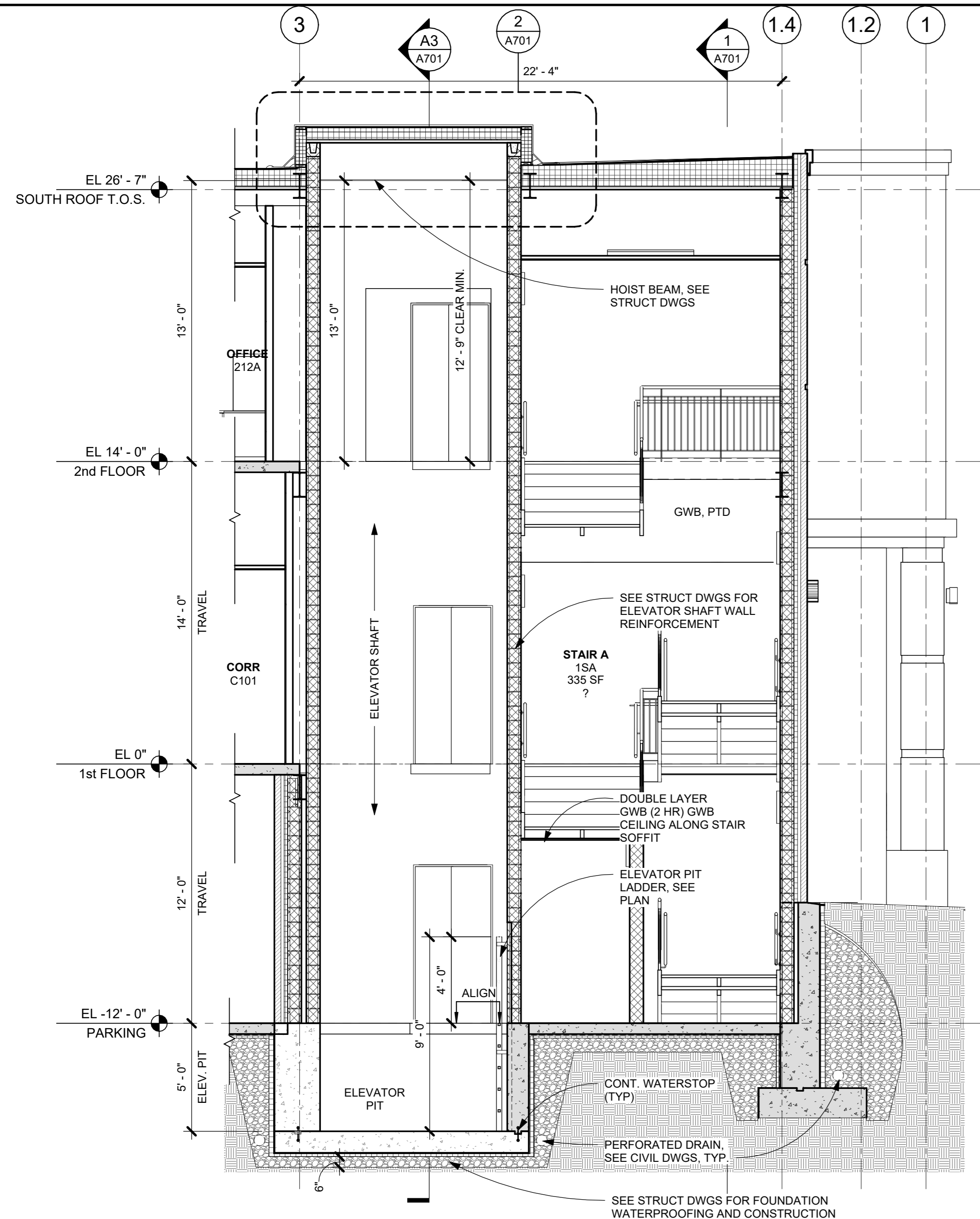
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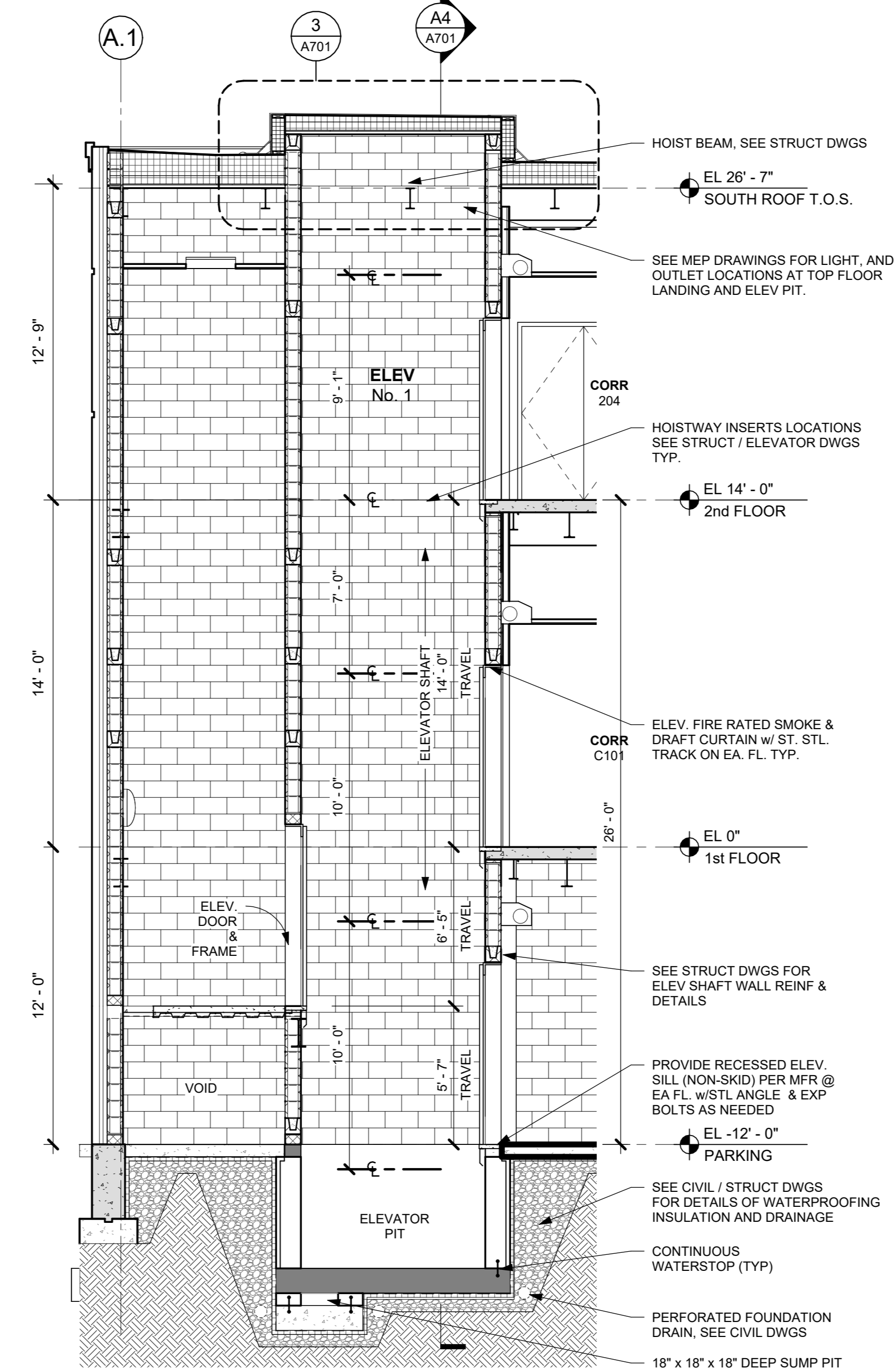
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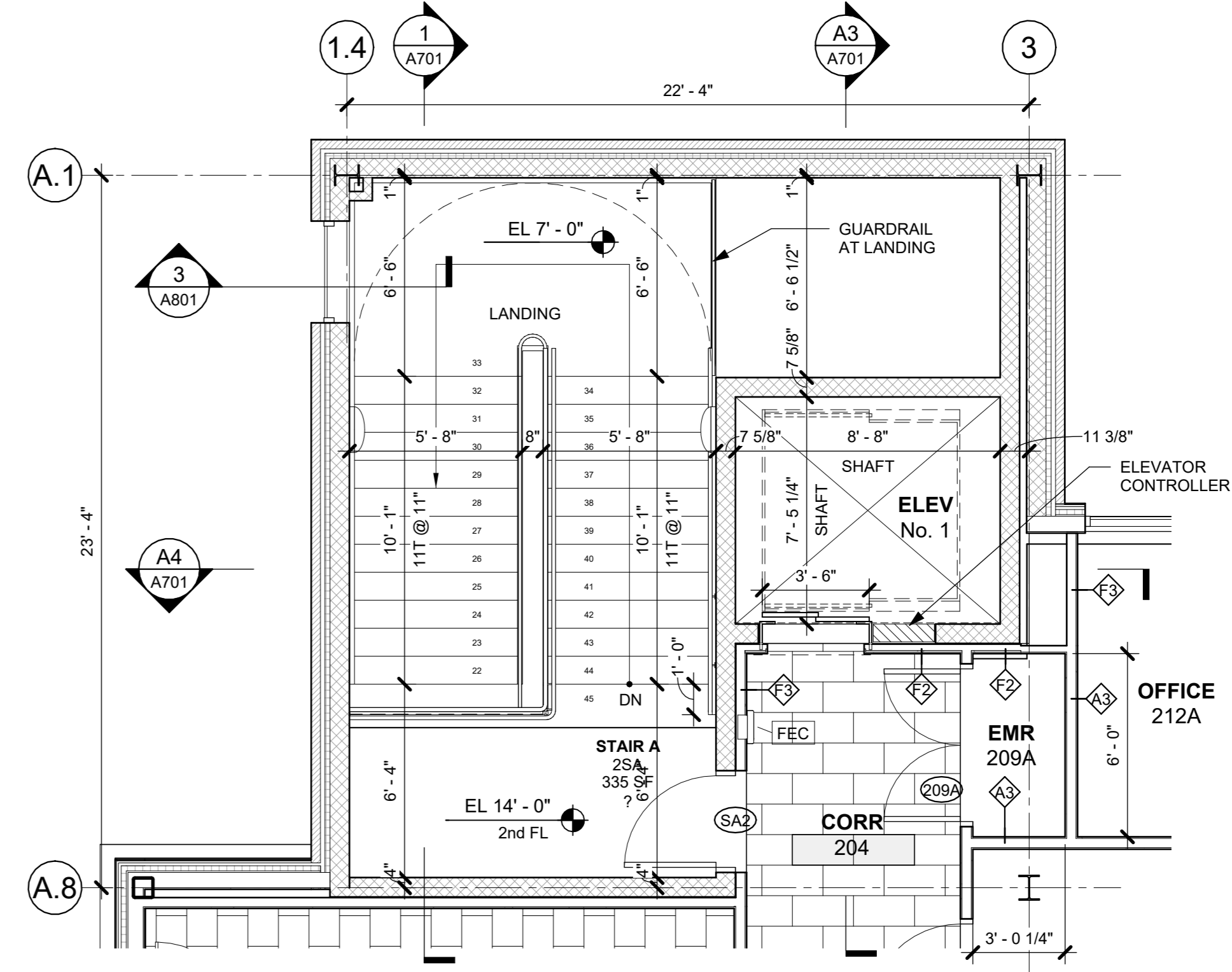
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| Sheet Title | |
| 2nd FLOOR REFLECTED CEILING PLAN | |
| Job No. 2020-1005 | Date 03/31/2020 |
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| Sheet Number A603 | |



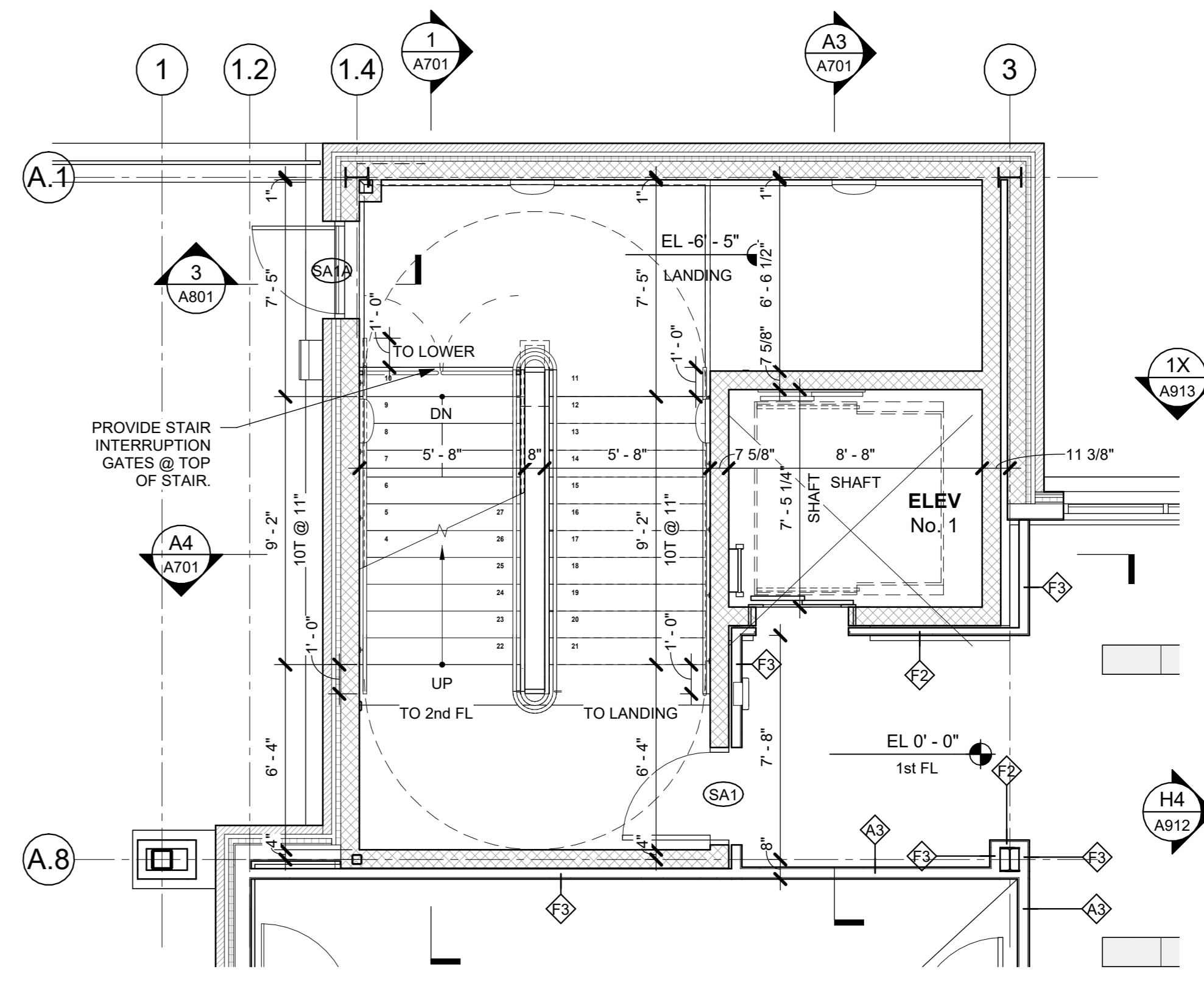
A4 SECTION A4 AT STAIR A & ELEV
1/4" = 1'-0"



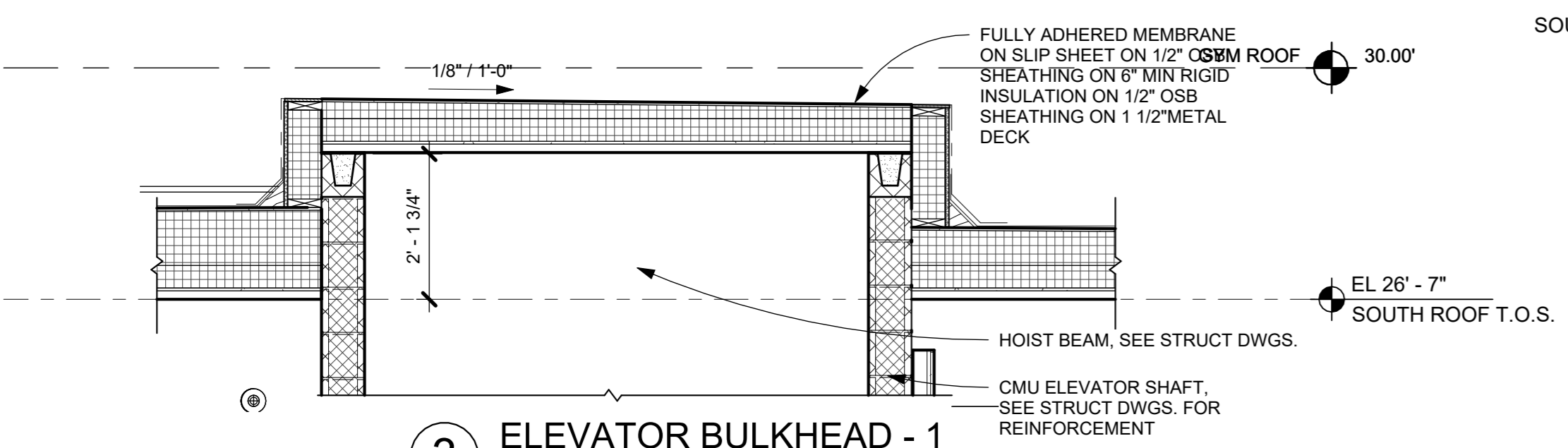
A3 SECTION A3 AT ELEV
1/4" = 1'-0"



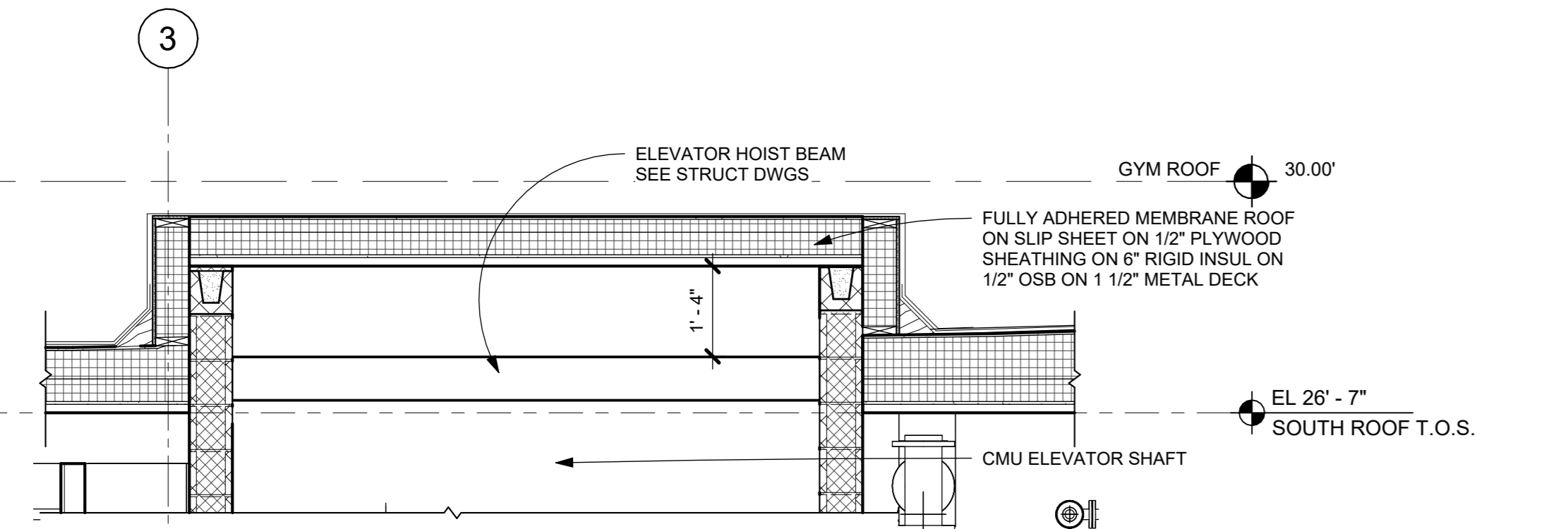
A2 STAIR A - 2nd FL PLAN
1/4" = 1'-0"



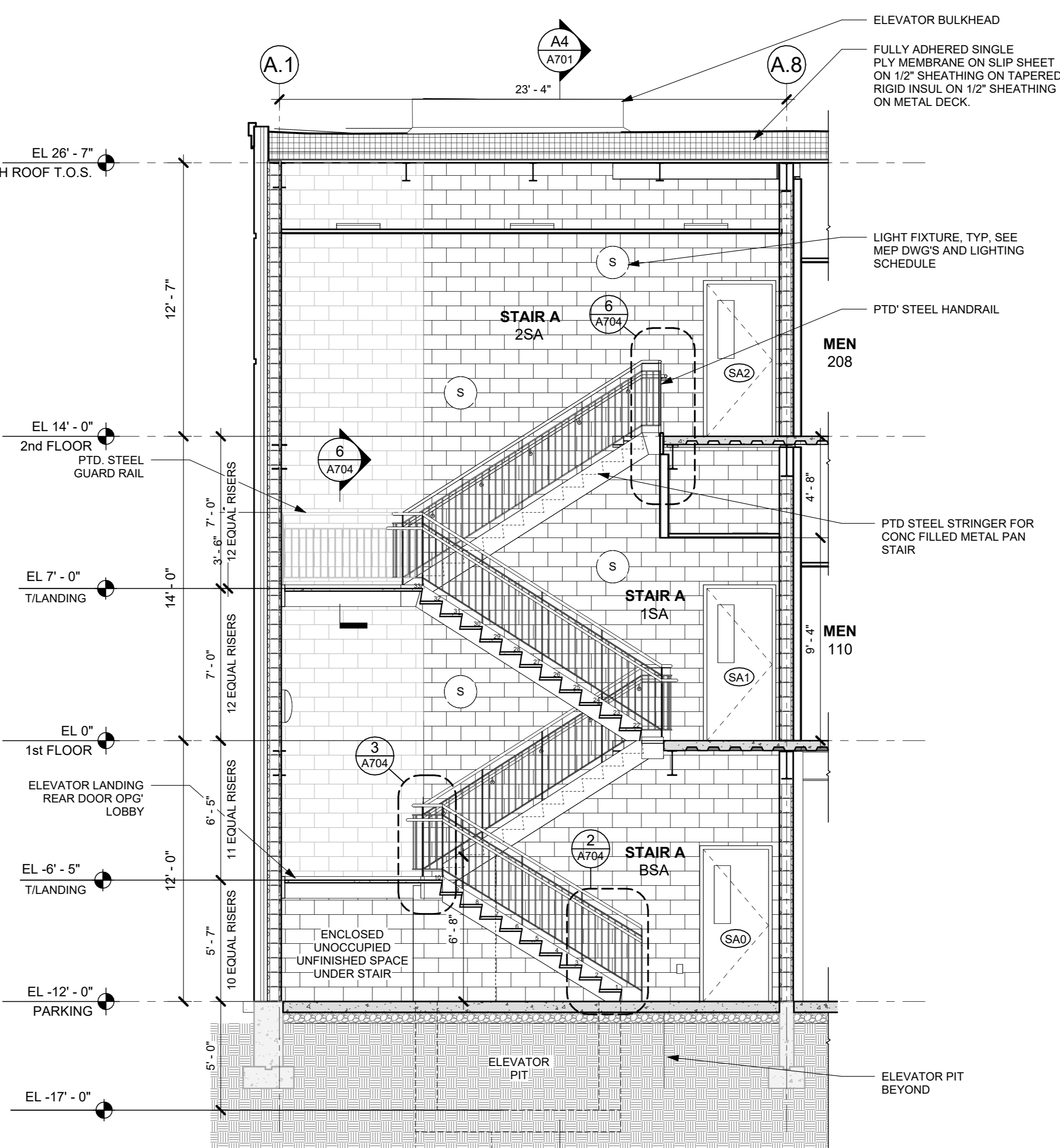
A1 STAIR A - 1st FL PLAN
1/4" = 1'-0"



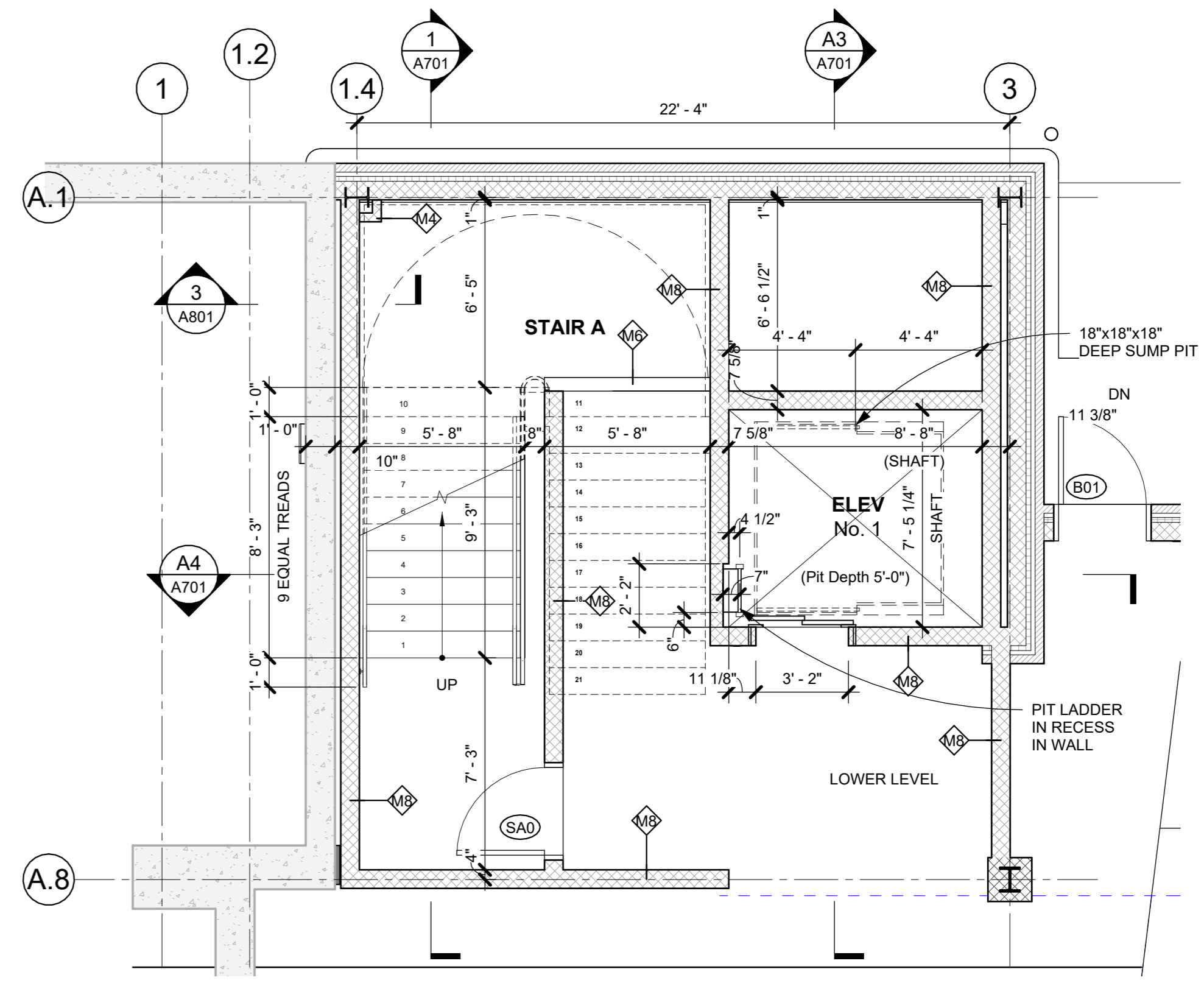
3 ELEVATOR BULKHEAD - 1
1/2" = 1'-0"



2 ELEVATOR BULKHEAD - 2
1/2" = 1'-0"



1 SECTION AT STAIR A
1/4" = 1'-0"



A0 STAIR A - LOWER LEVEL PLAN
1/4" = 1'-0"

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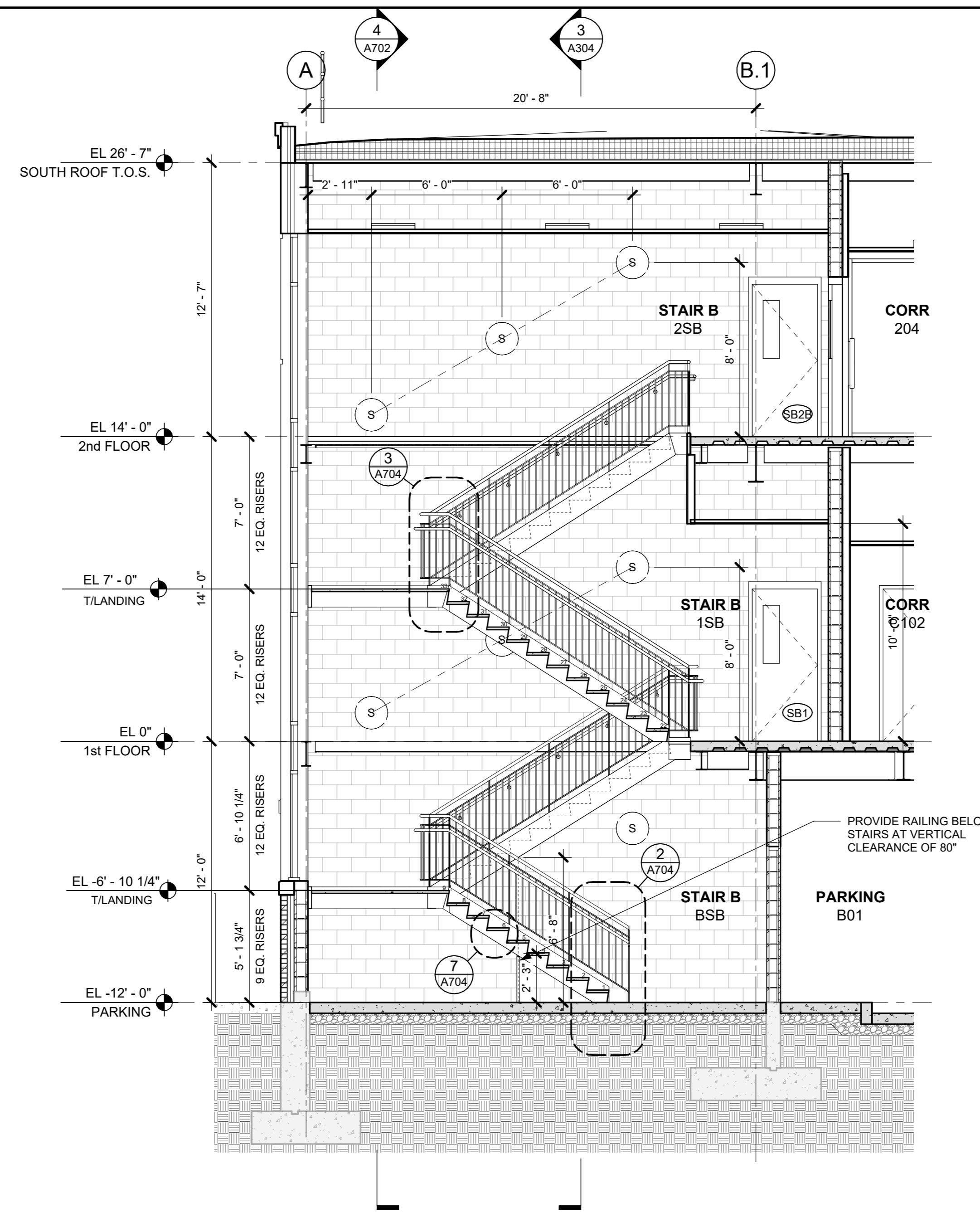
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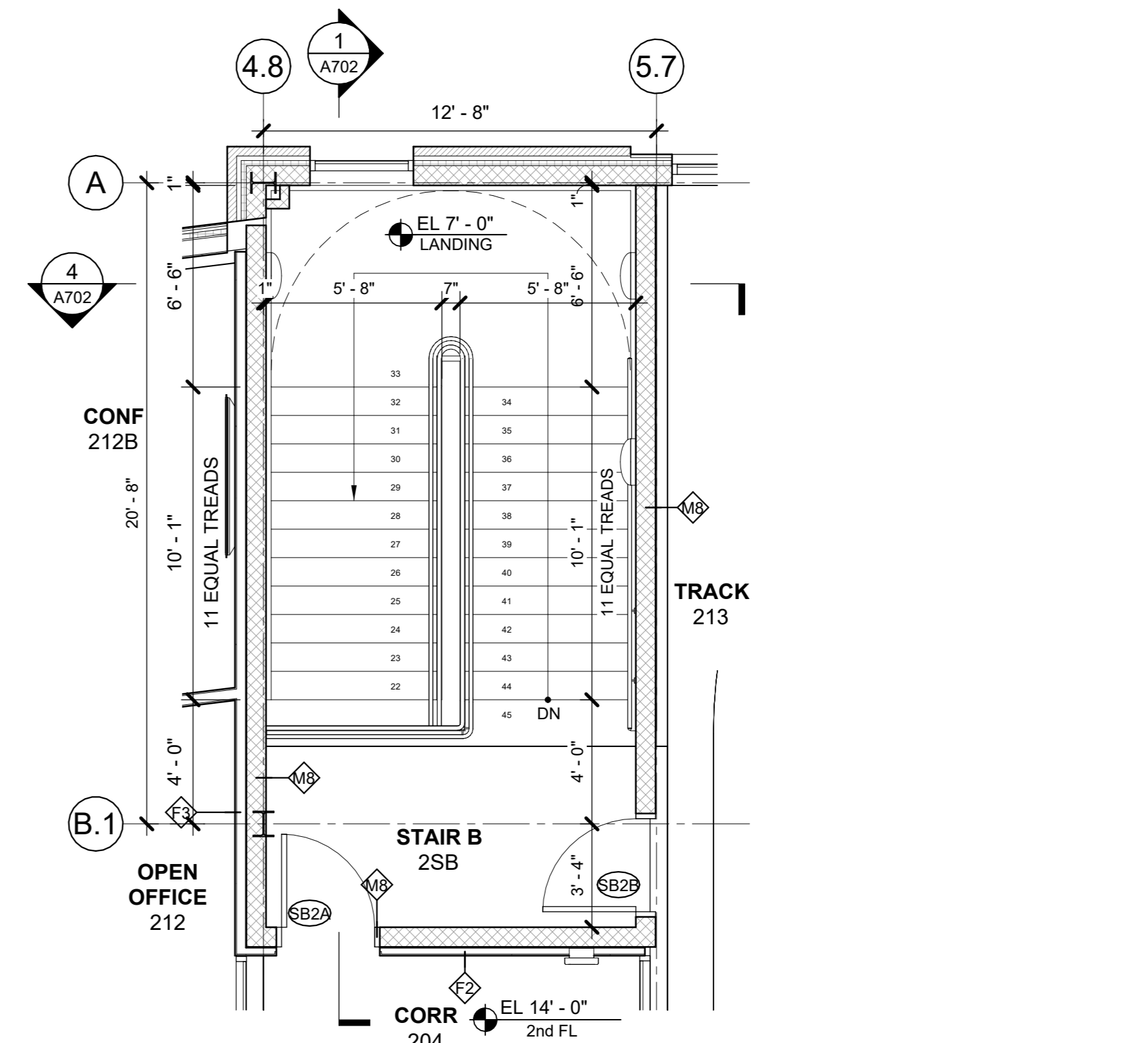
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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

ELEV & STAIR PLANS & SECTIONS

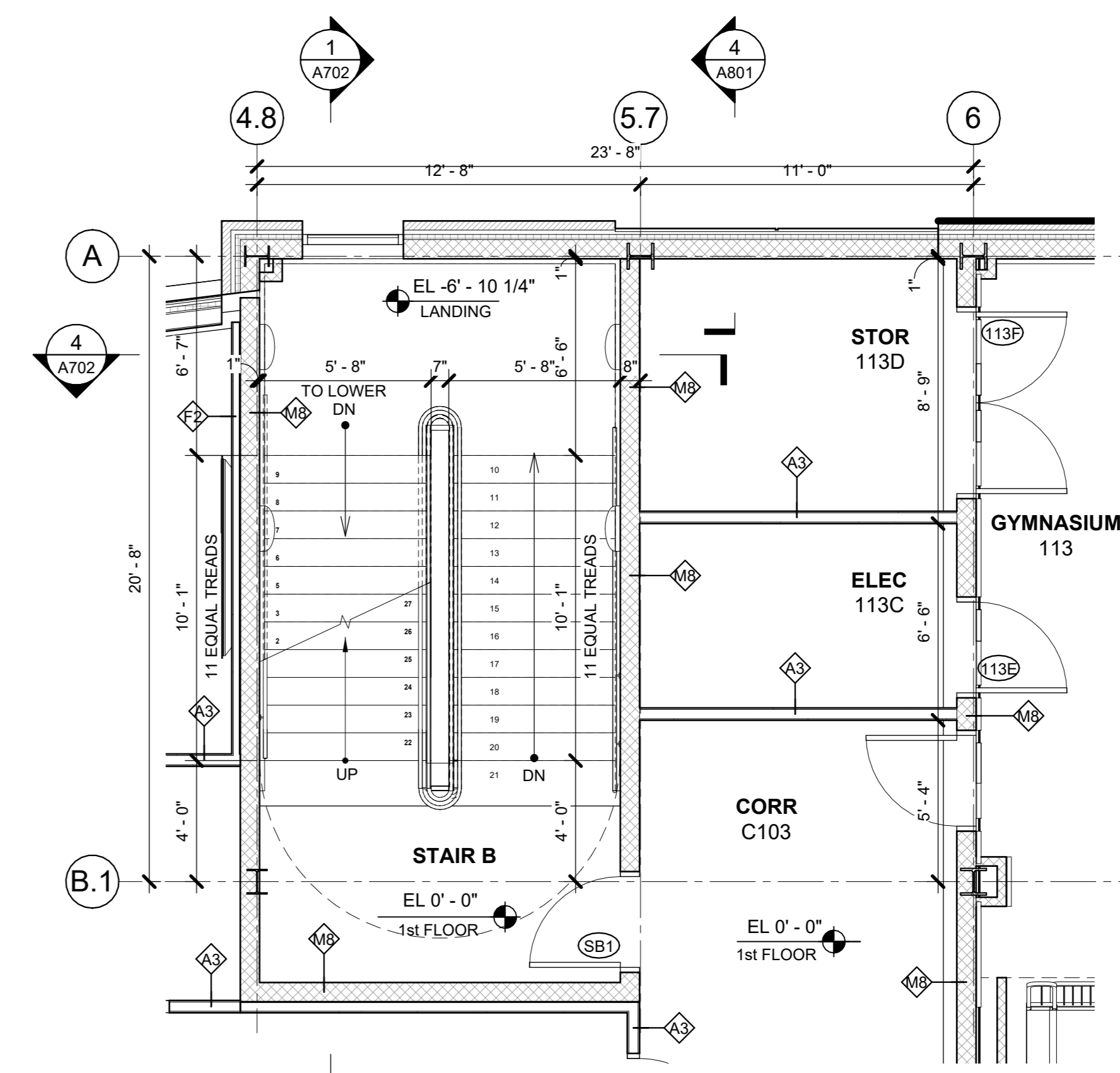
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| Job No. | 2020-1005 | Date | 03/31/2020 |
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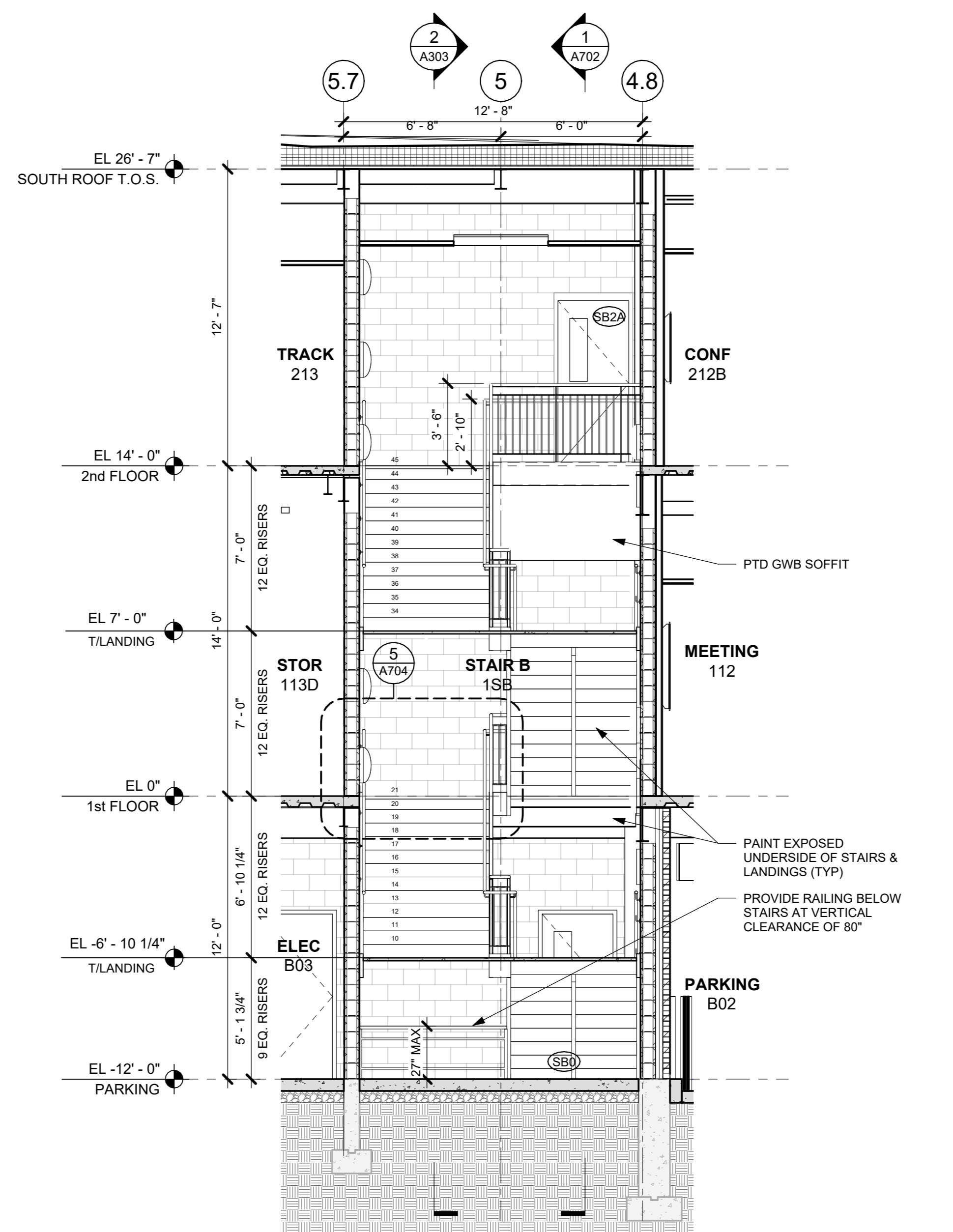
1 SECTION EW AT STAIR B
1/4" = 1'-0"



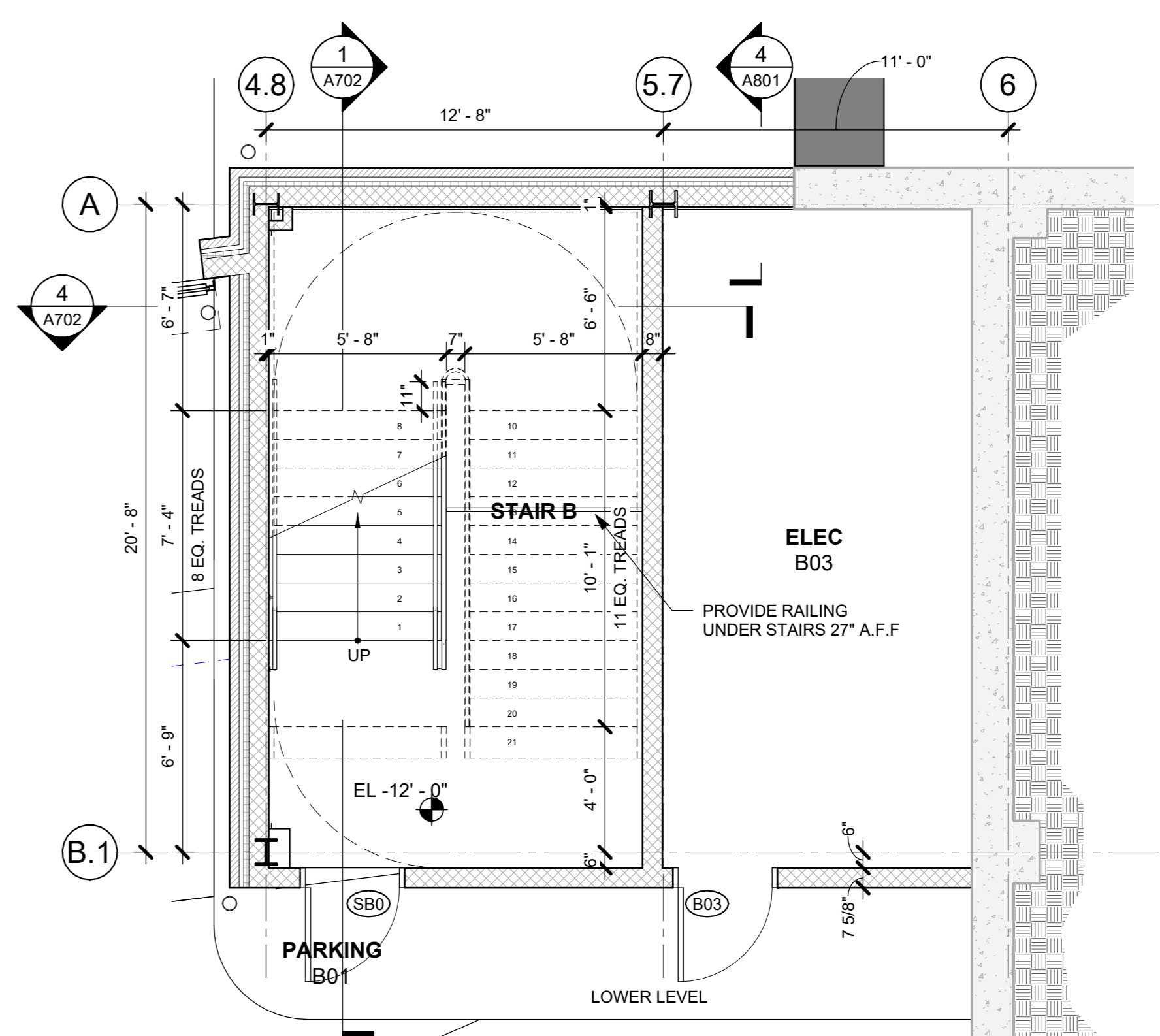
B2 STAIR B - 2nd FL PLAN
1/4" = 1'-0"



B1 STAIR B - 1st FL PLAN
1/4" = 1'-0"



4 SECTION NS AT STAIR B
1/4" = 1'-0"



B0 STAIR B - LOWER LEVEL PLAN
1/4" = 1'-0"

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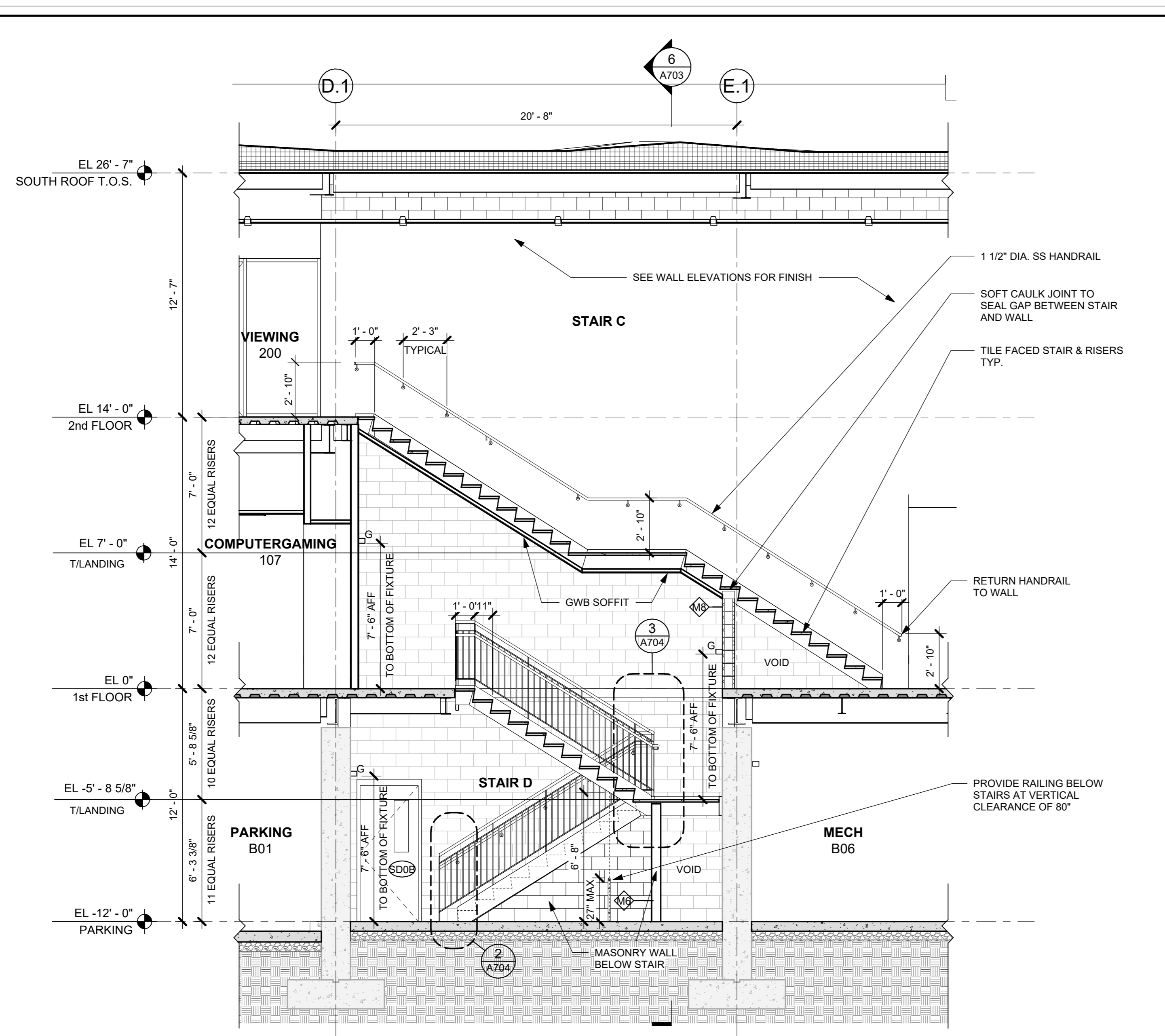
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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title

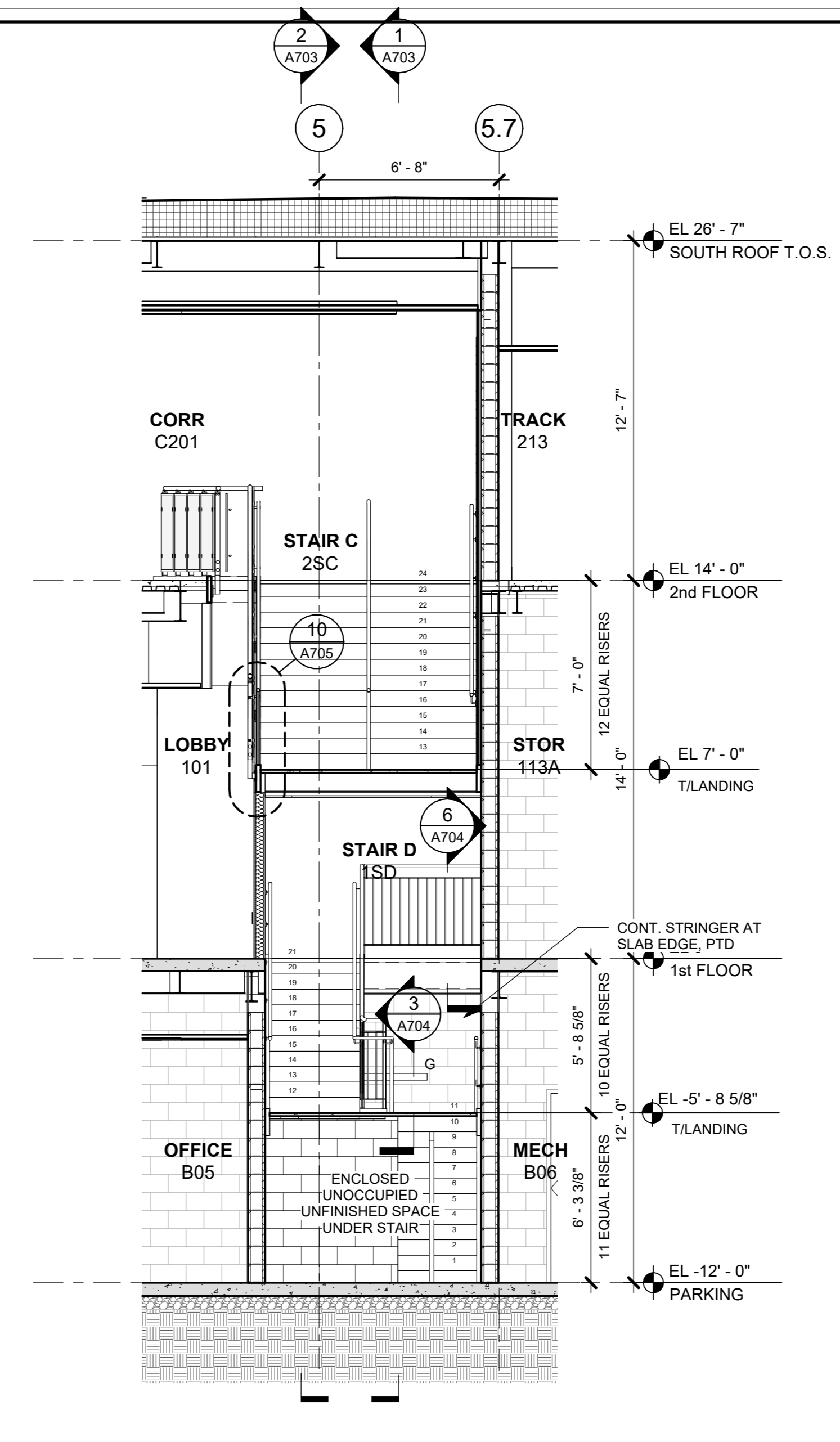
STAIR PLANS & SECTIONS

| Job No. | Date |
|--------------|-----------------|
| 2020-1005 | 06/01/2020 |
| Scale | Drawn / Checked |
| AS NOTED | - |
| Sheet Number | |

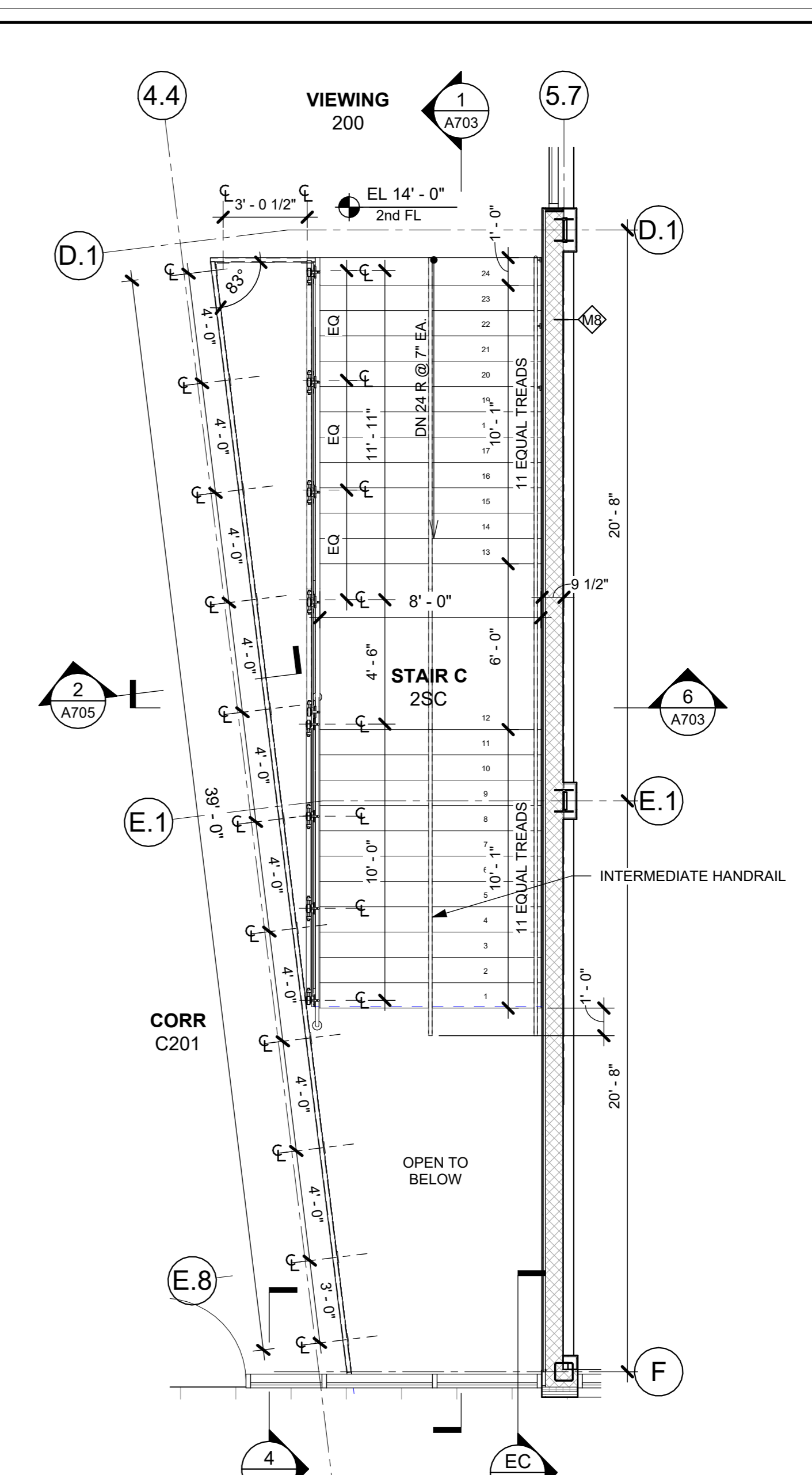
A702



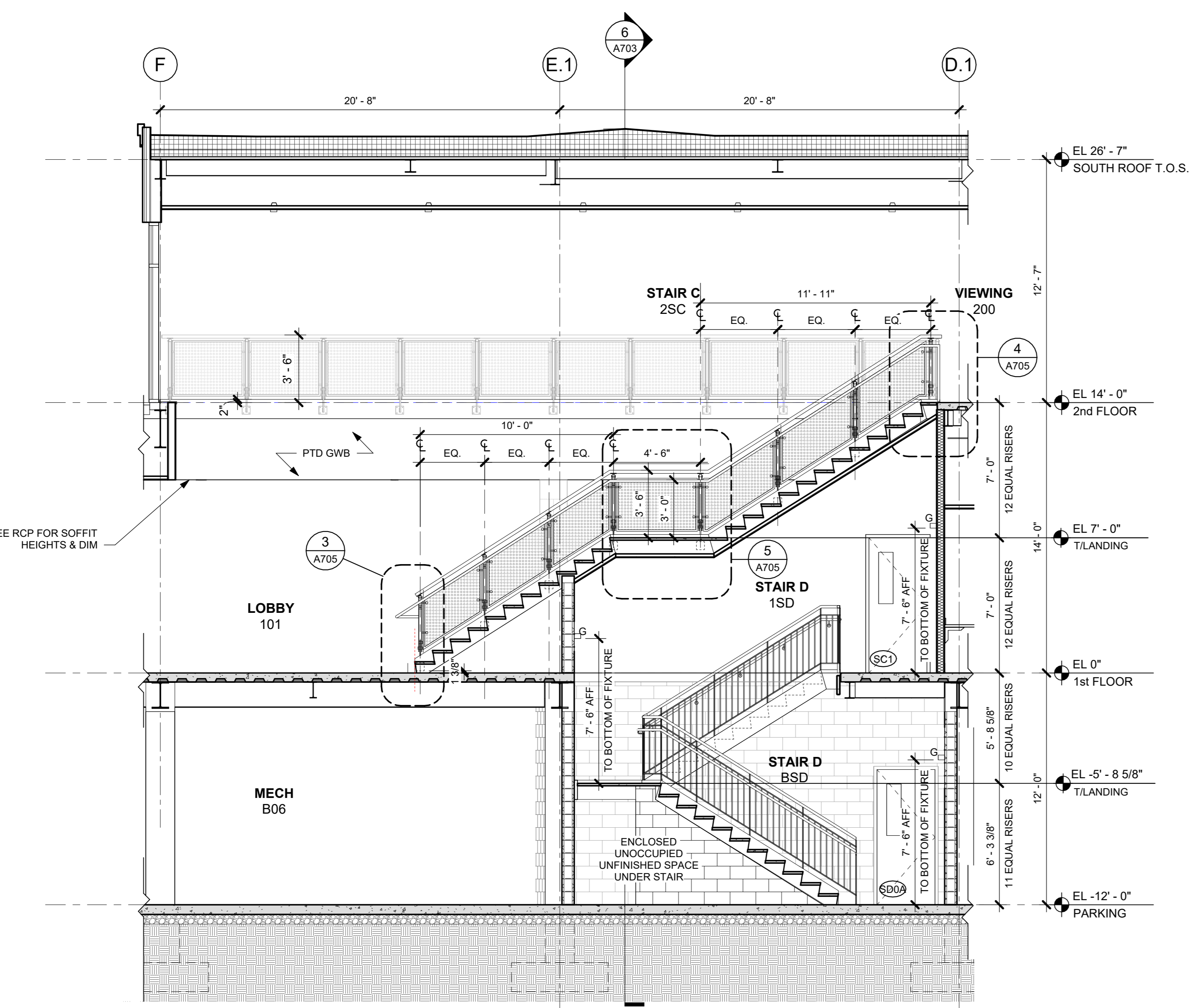
2 SECTION AT STAIR C & D NORTH ELEV
1/4" = 1'-0"



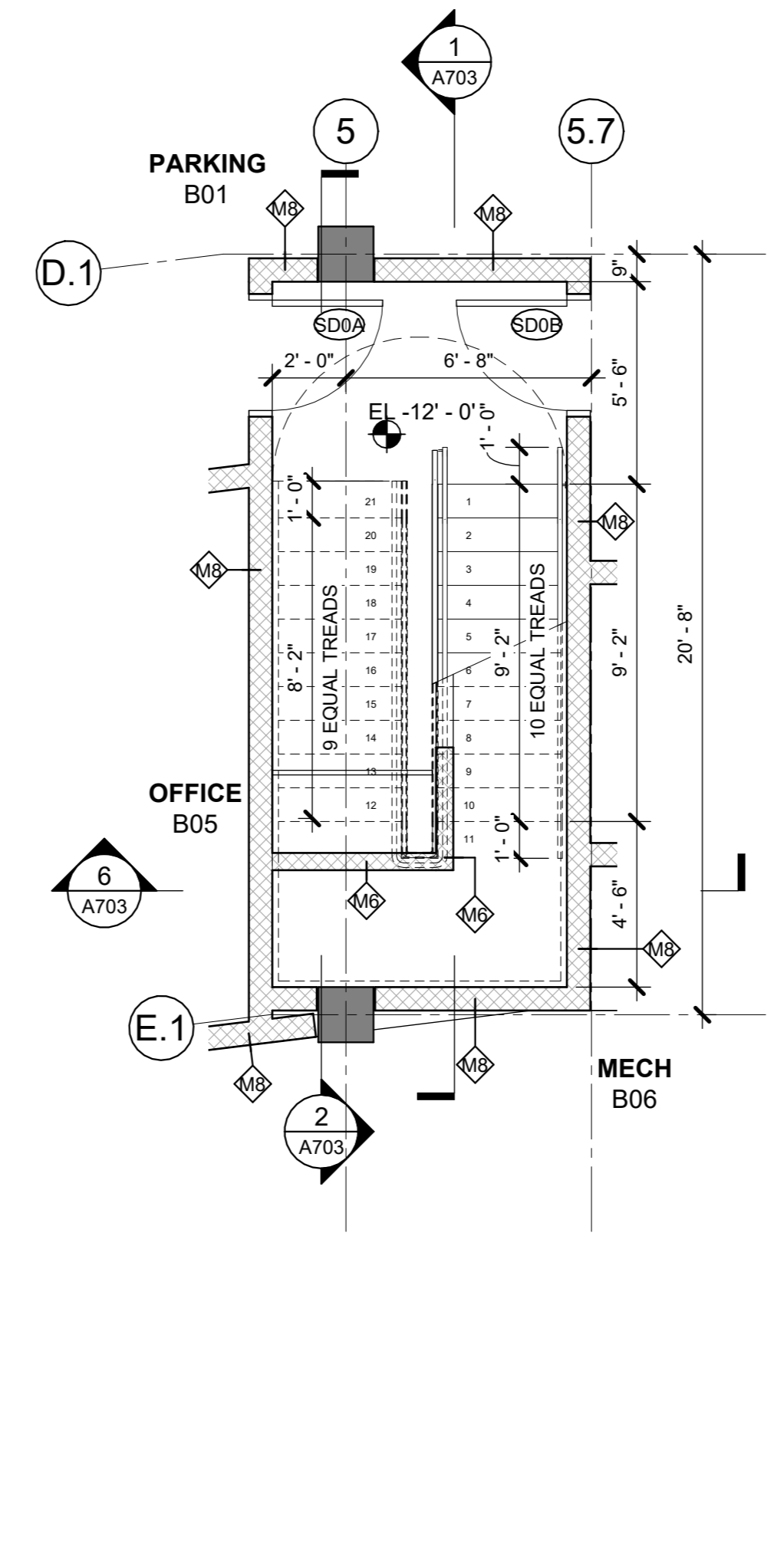
6 SECTION AT STAIR C
1/4" = 1'-0"



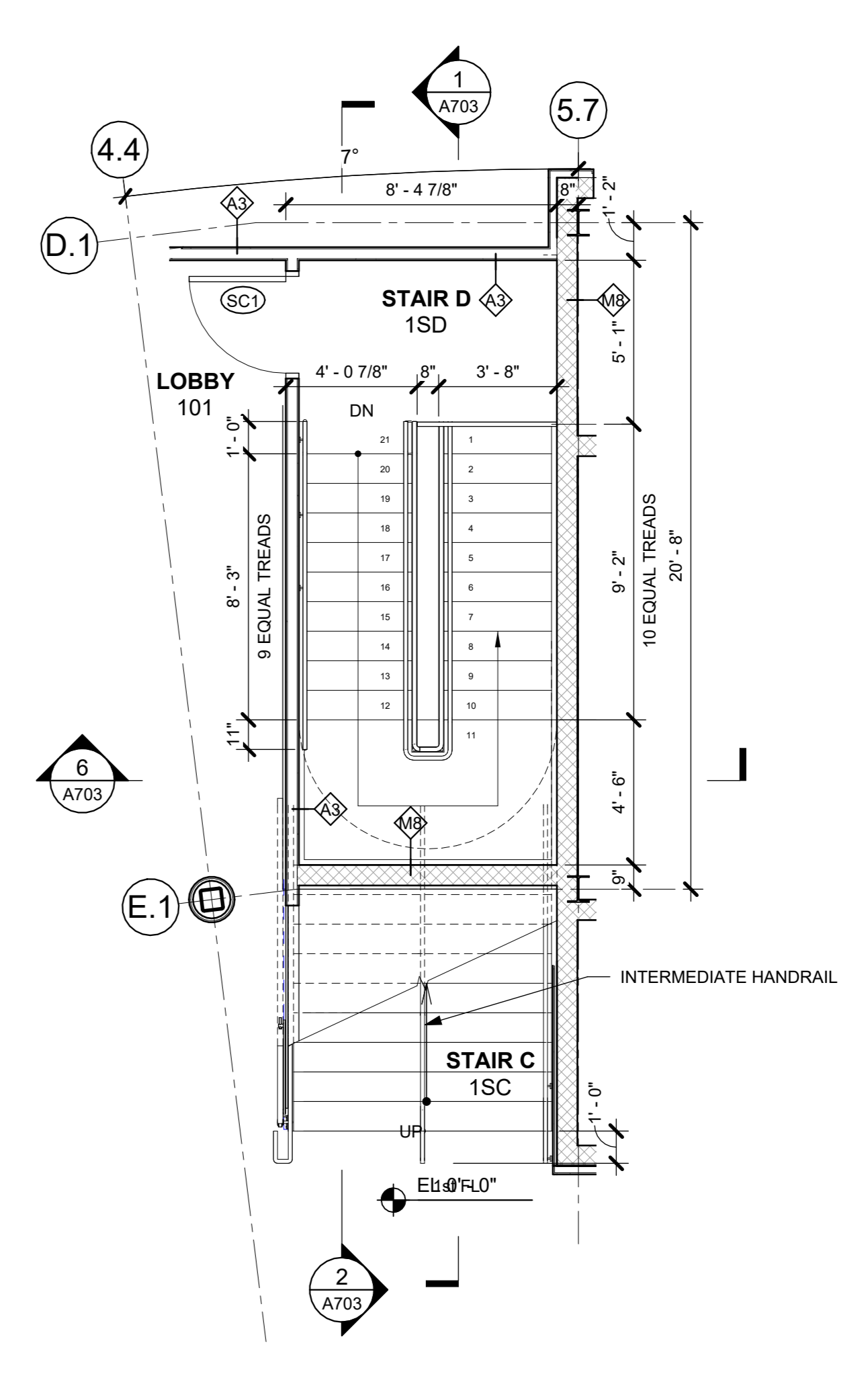
4 STAIR C - 2nd FL PLAN
1/4" = 1'-0"



1 SECTION AT STAIR C & D SOUTH ELEV
1/4" = 1'-0"



5 LOWER LEVEL PLAN - Callout 1
1/4" = 1'-0"



3 STAIR D - 1st FL PLAN
1/4" = 1'-0"

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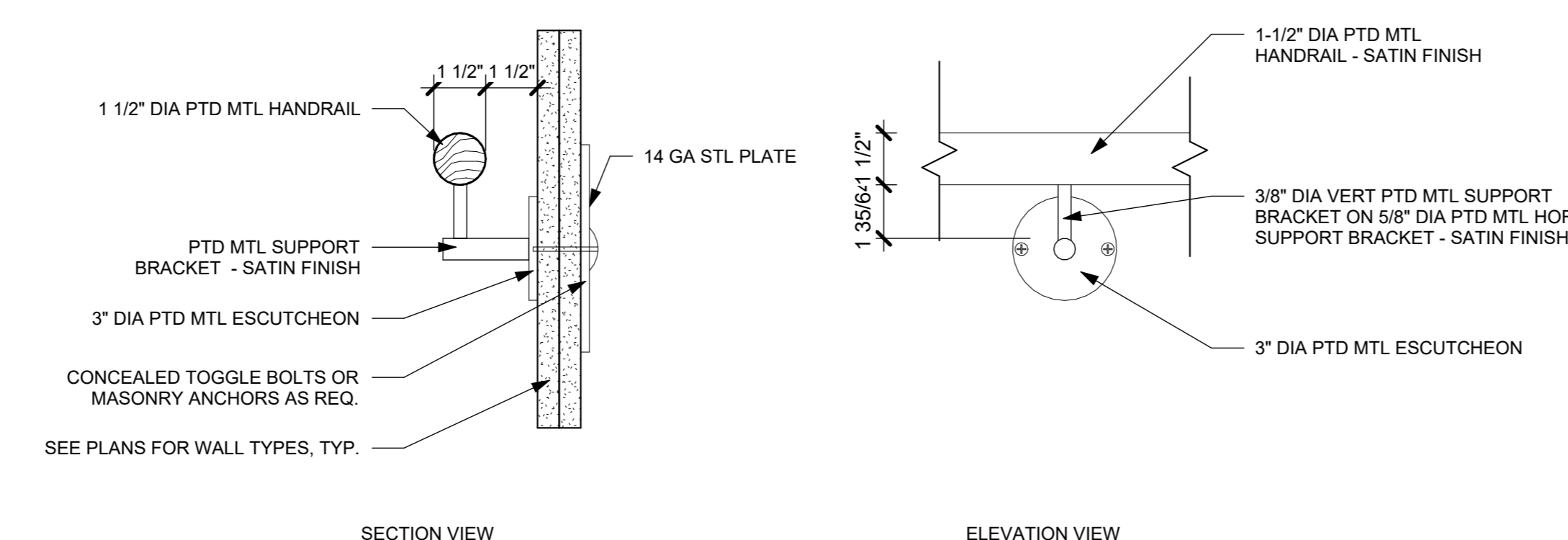
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| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

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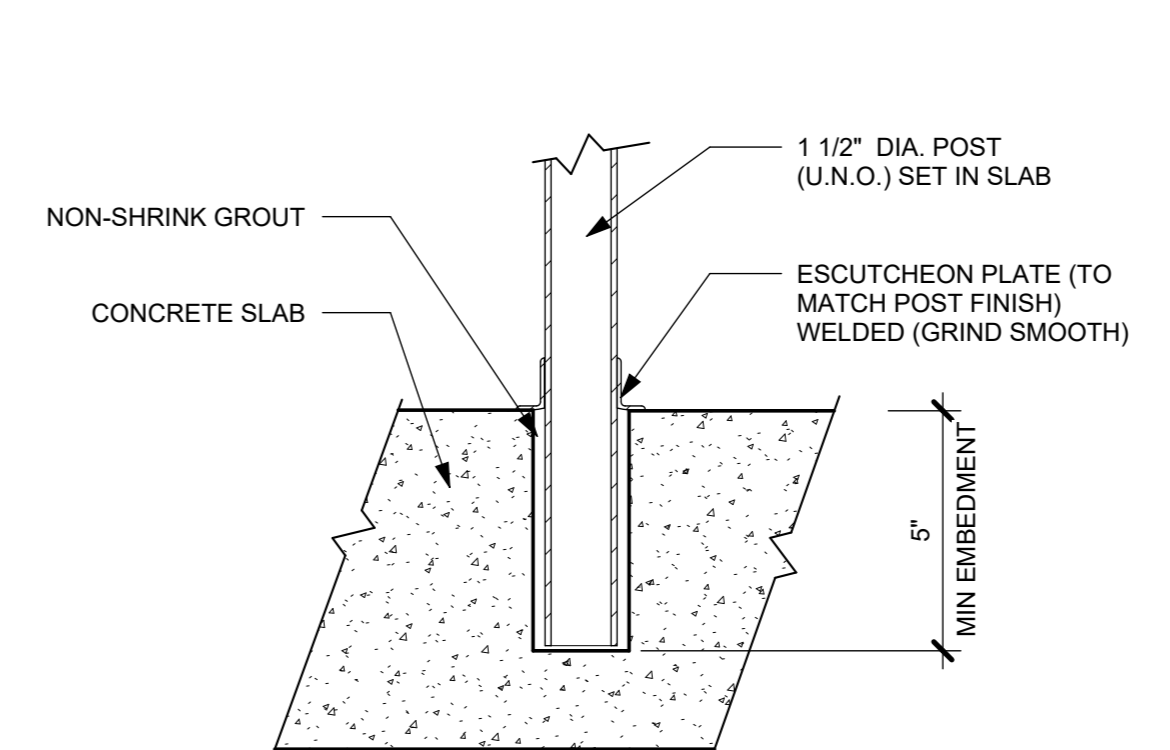
STAIR PLANS & SECTIONS

| Job No. | Date |
|--------------|-----------------|
| 2020-1005 | 02/16/24 |
| Scale | Drawn / Checked |
| AS NOTED | Author Checker |
| Sheet Number | |

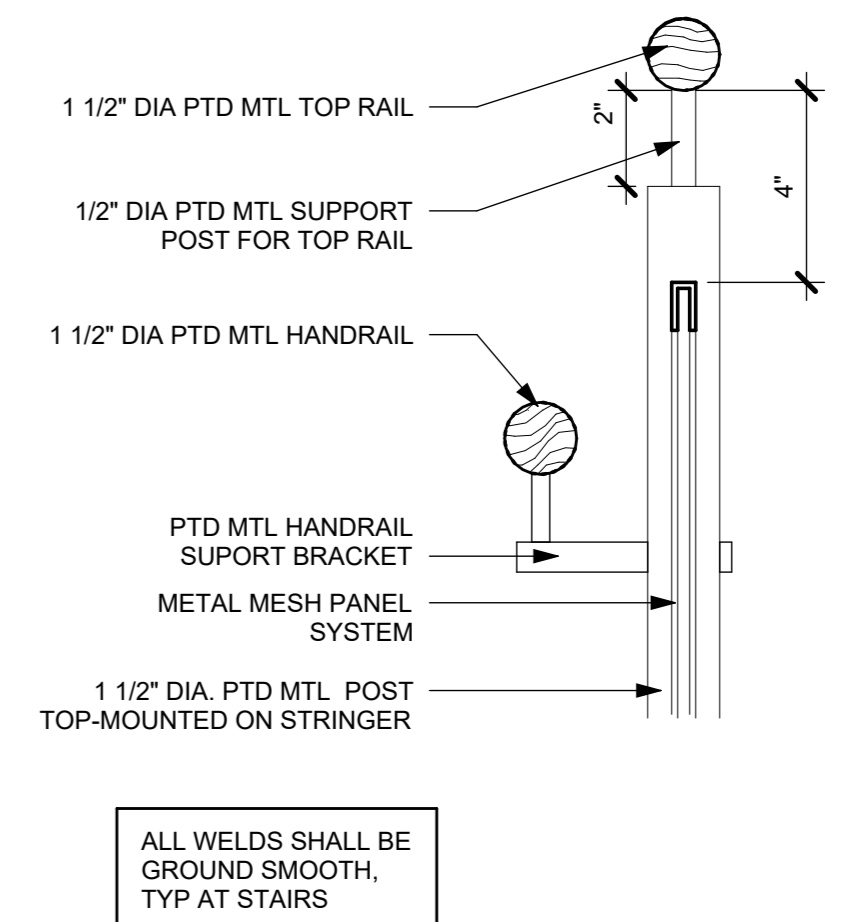
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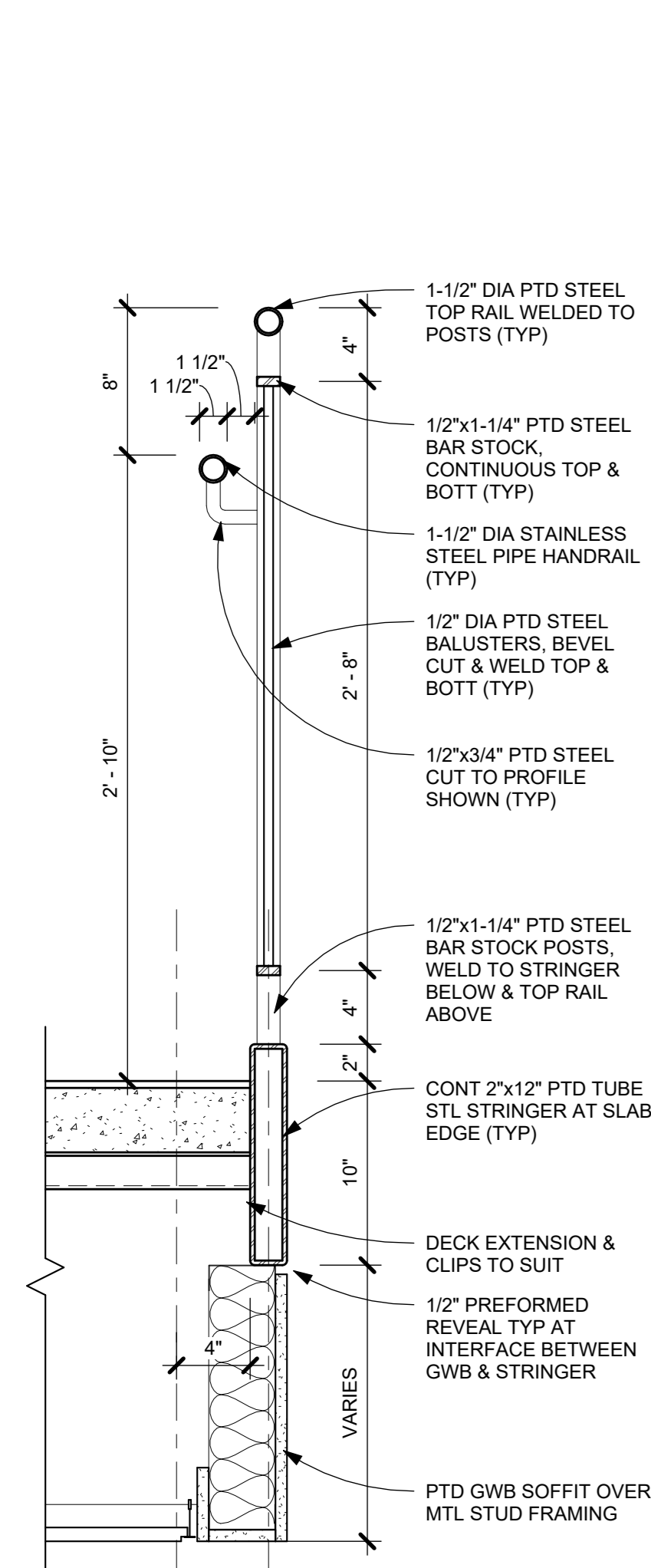
13 TYP DETAIL @ WALL MNTD HANDRAIL
3" = 1'-0"



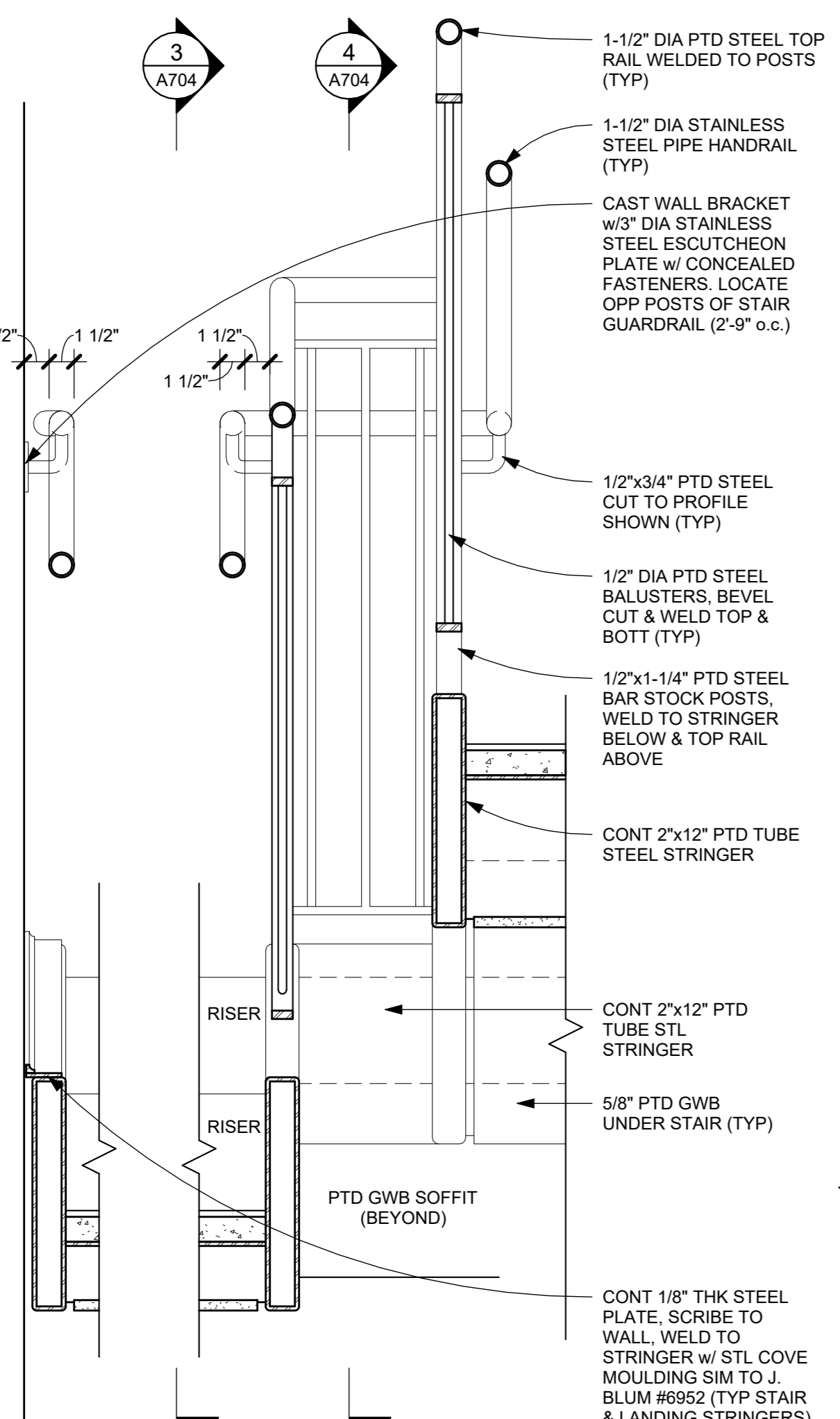
12 DETAIL @ POST SLEEVE
3" = 1'-0"



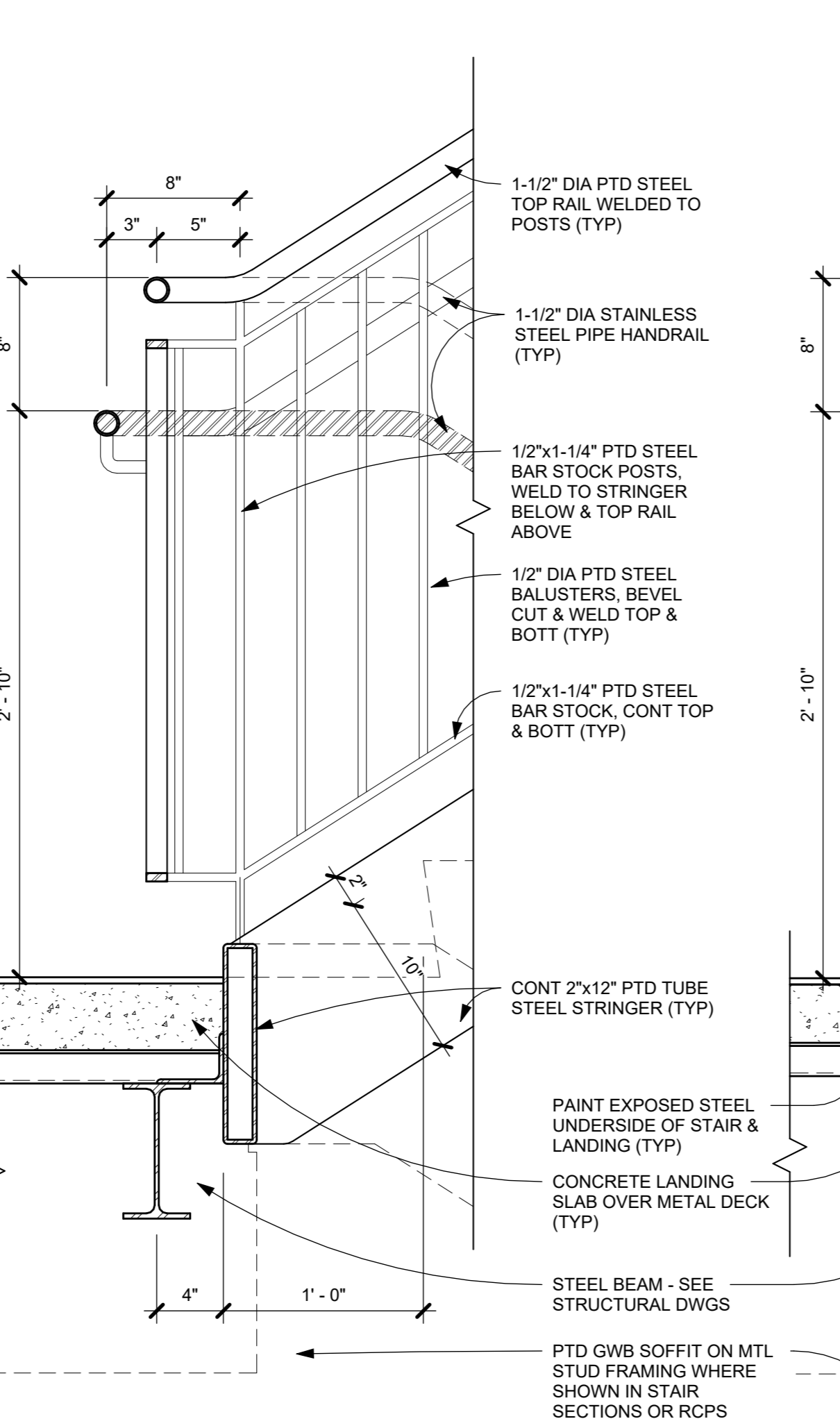
11 TYP DETAIL @ GUARDRAIL MNTD HANDRAIL
3" = 1'-0"



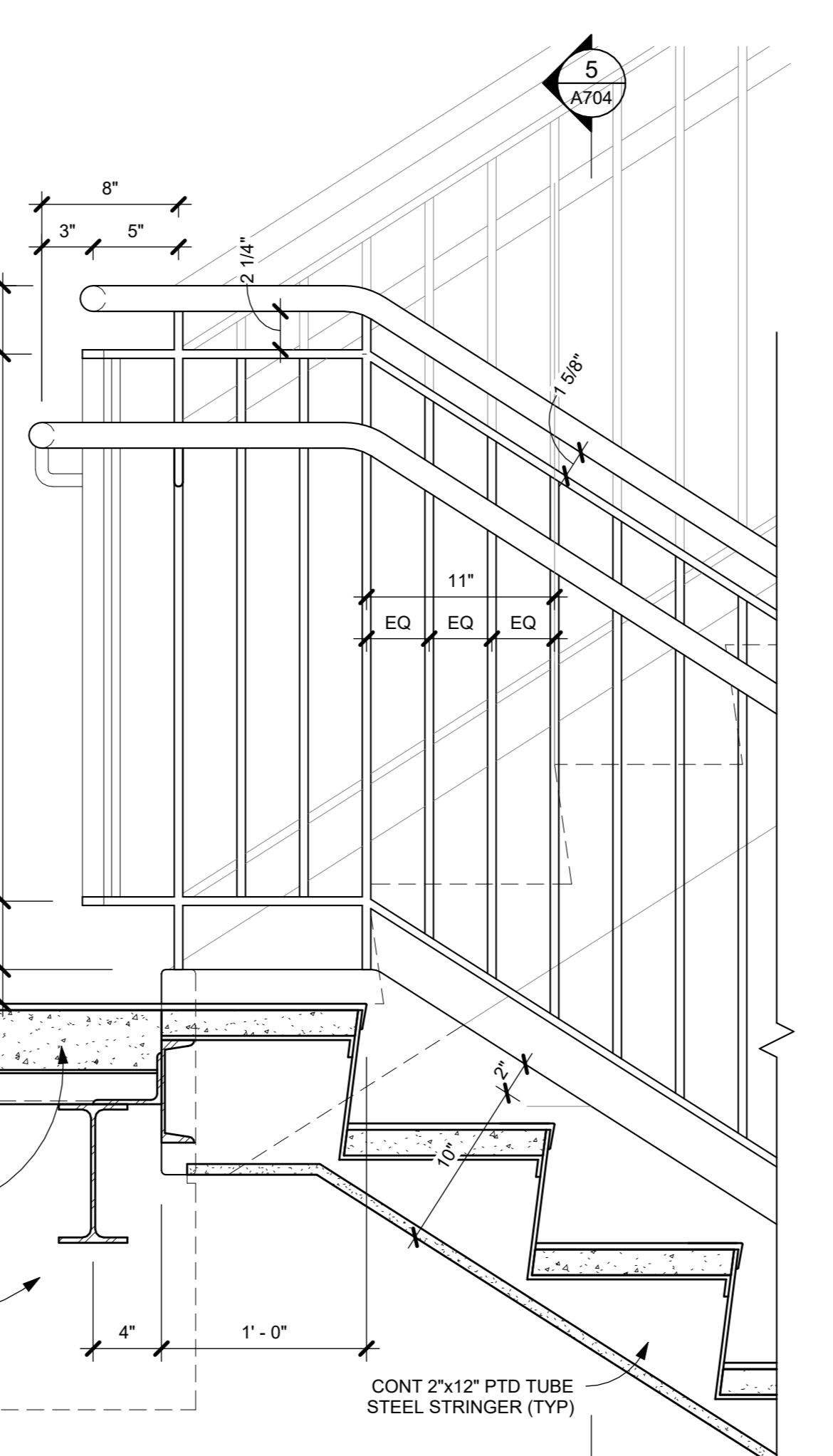
6 LANDING EDGE DETAIL
1 1/2" = 1'-0"



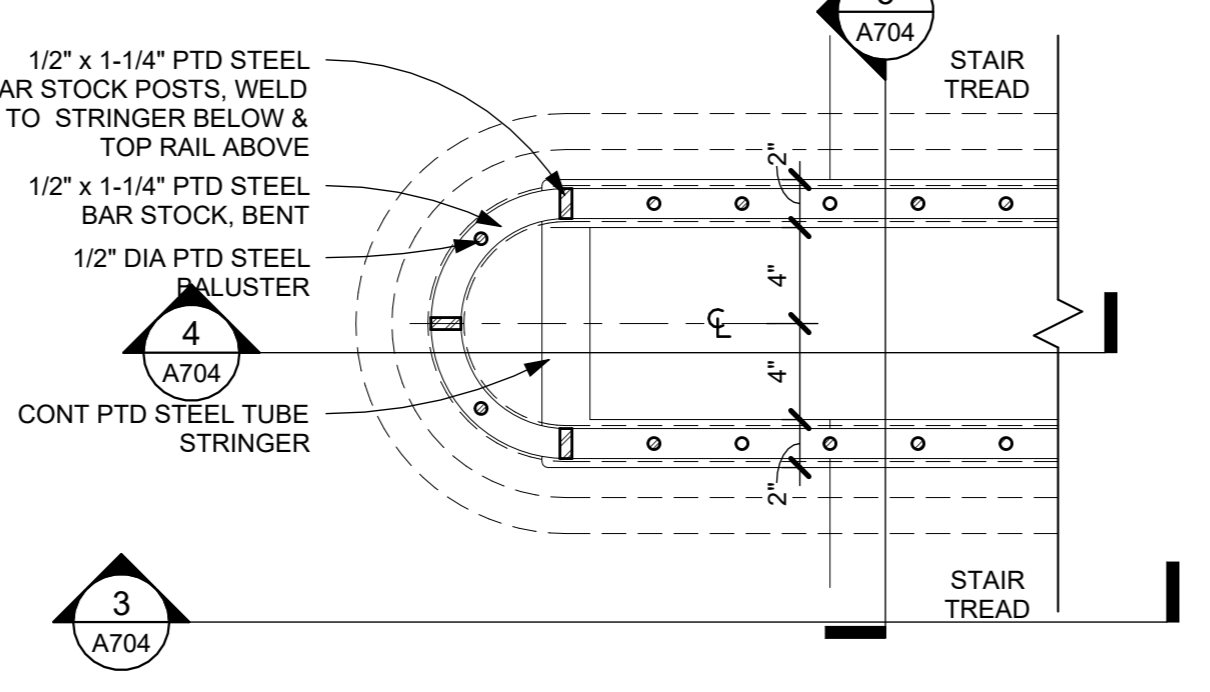
5 LANDING SECTION
1 1/2" = 1'-0"



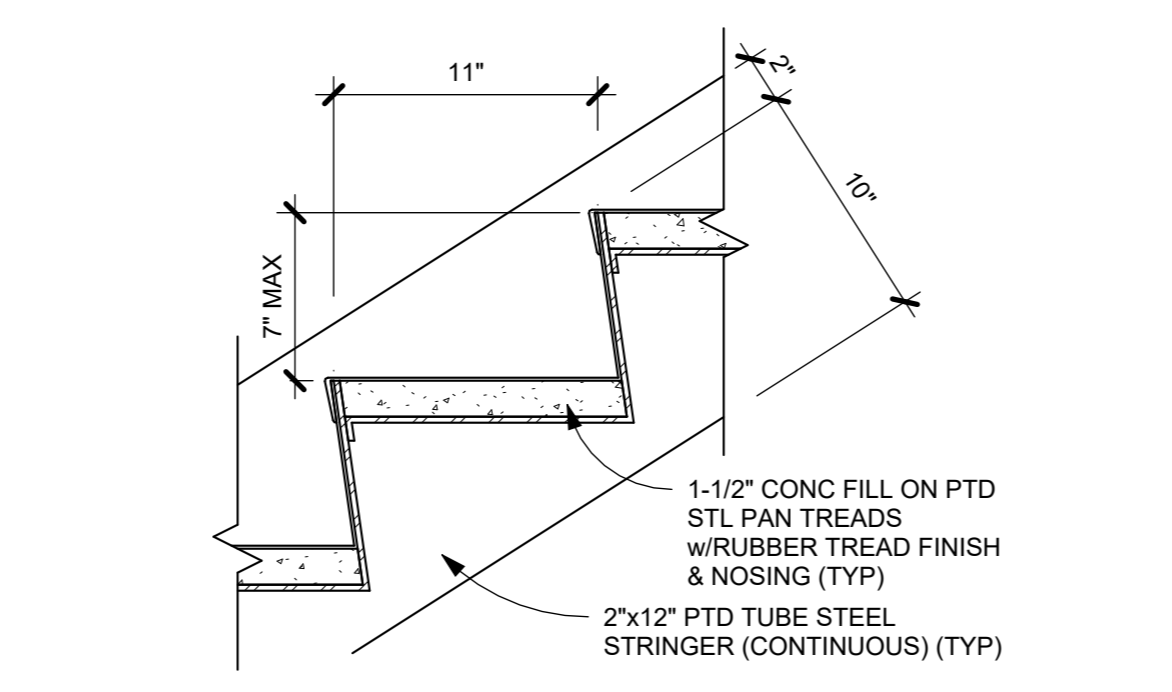
4 STAIR SECTION @ CURB
1 1/2" = 1'-0"



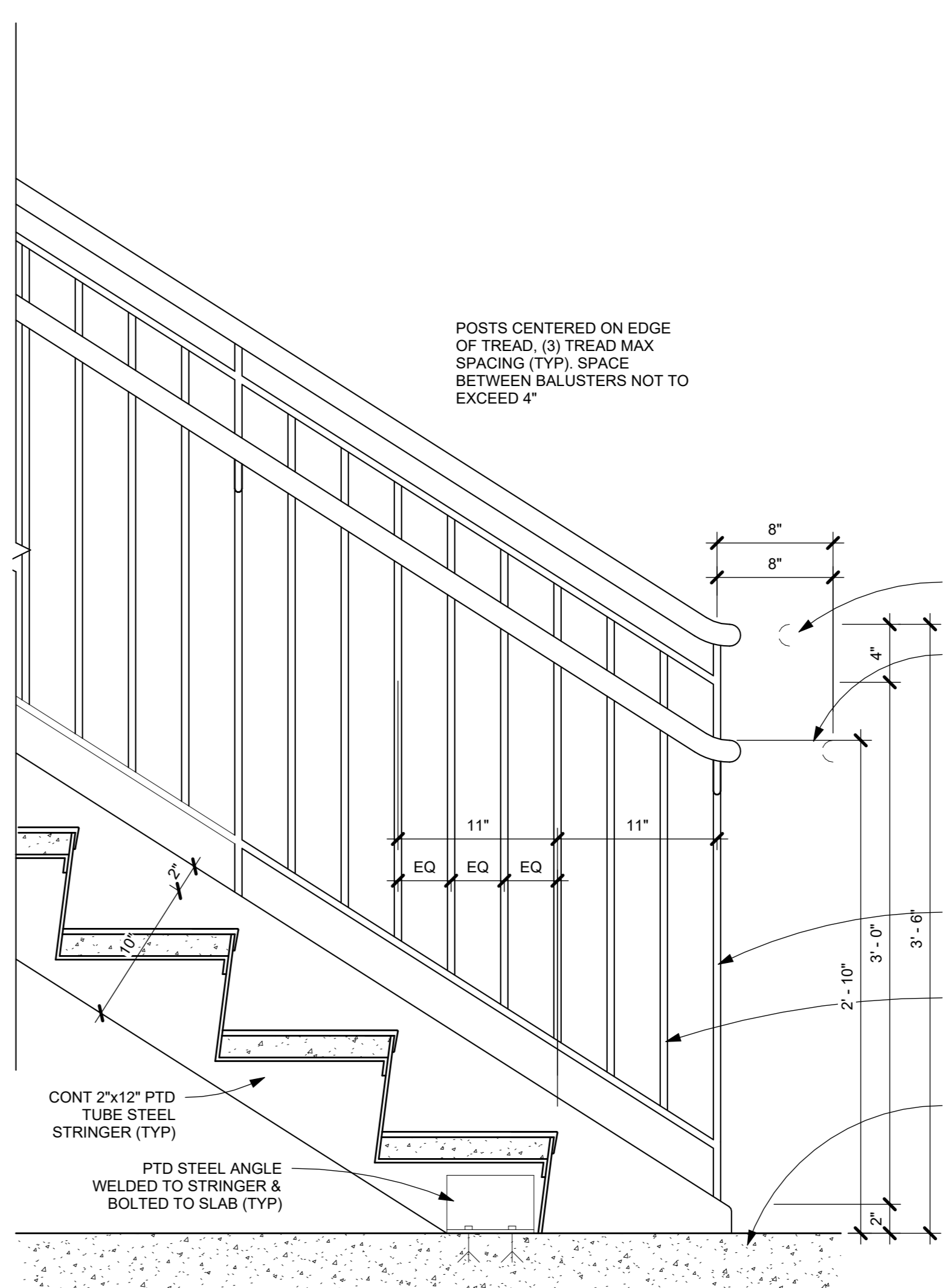
3 STAIR SECTION @ LANDING
1 1/2" = 1'-0"



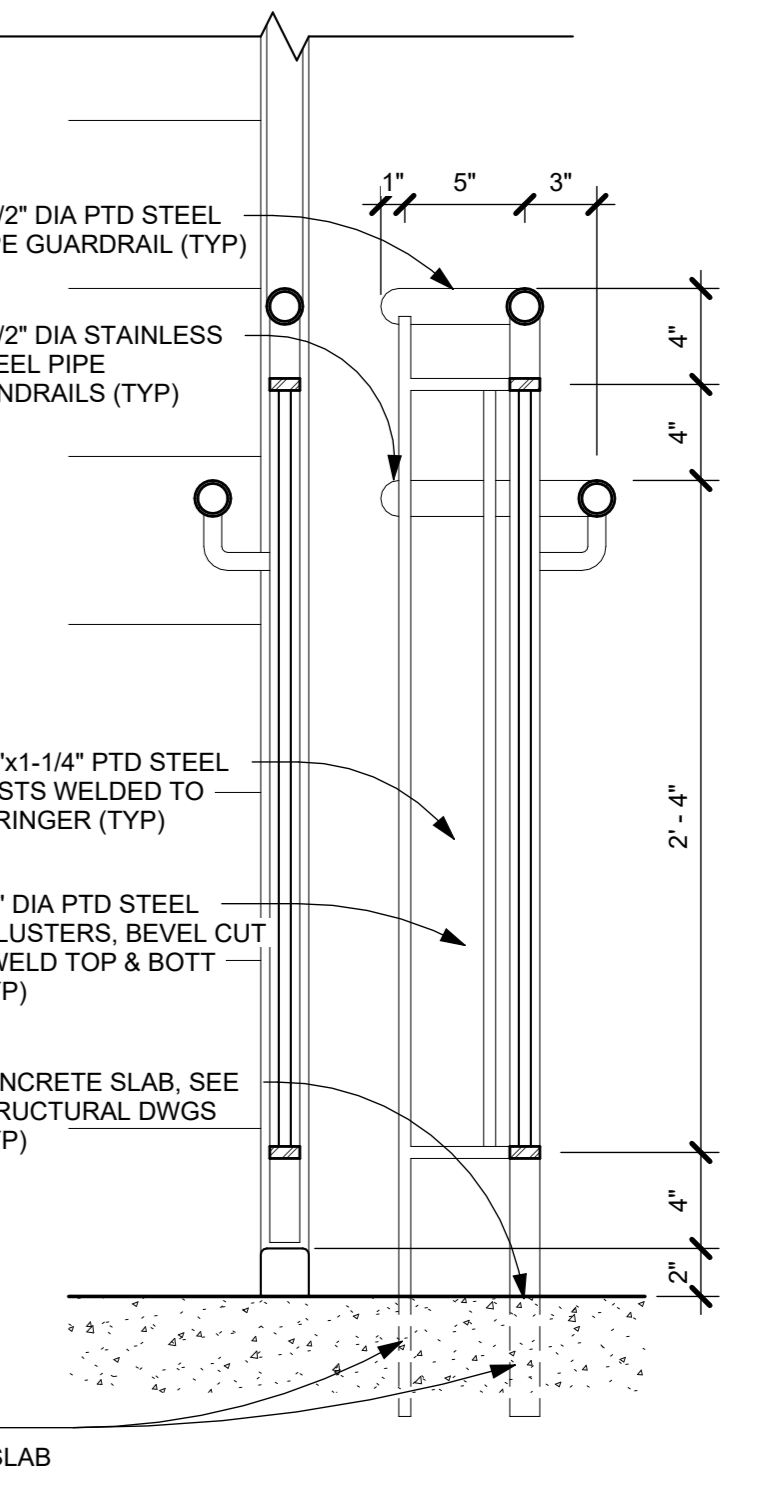
8 PLAN SECTION THRU RAIL
1 1/2" = 1'-0"



7 TYP STEEL PAN STAIR TREAD
1 1/2" = 1'-0"



2 STAIR SECTION @ BOTTOM
1 1/2" = 1'-0"



1 SECTION THRU END RAILING
1 1/2" = 1'-0"

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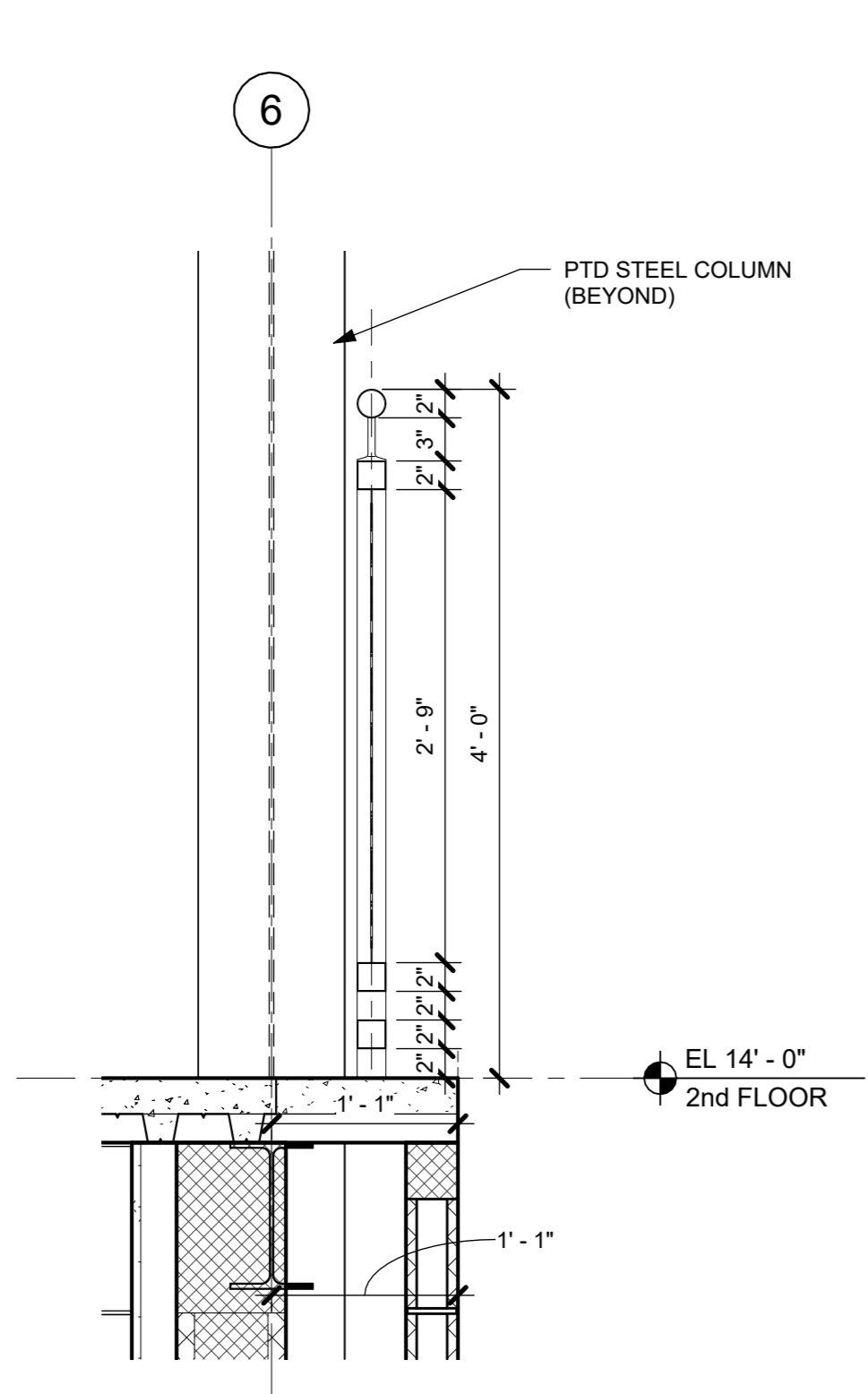
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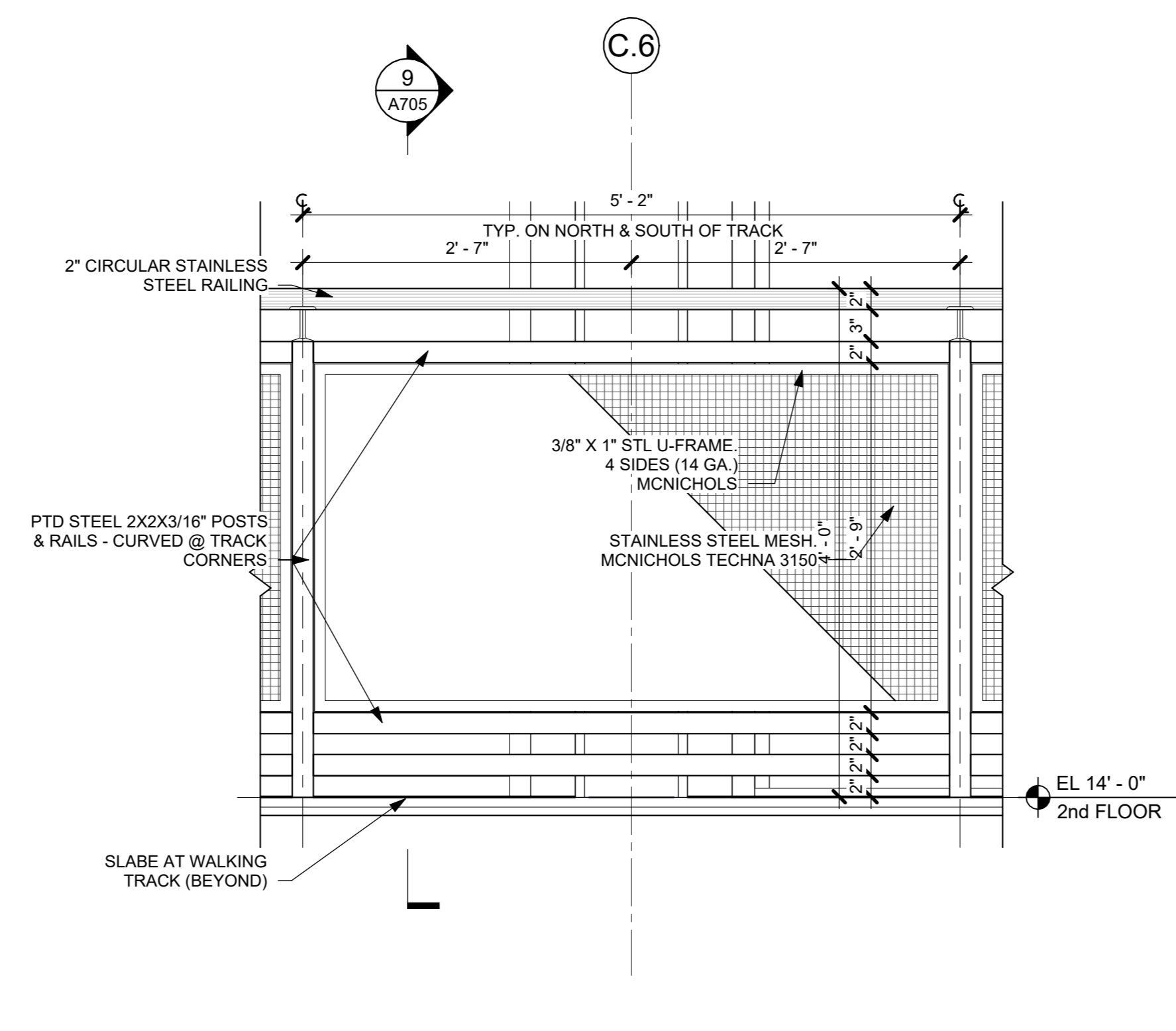
Professional Seal

**TYPICAL STAIR
DETAILS @ STAIR
A, B, & D**

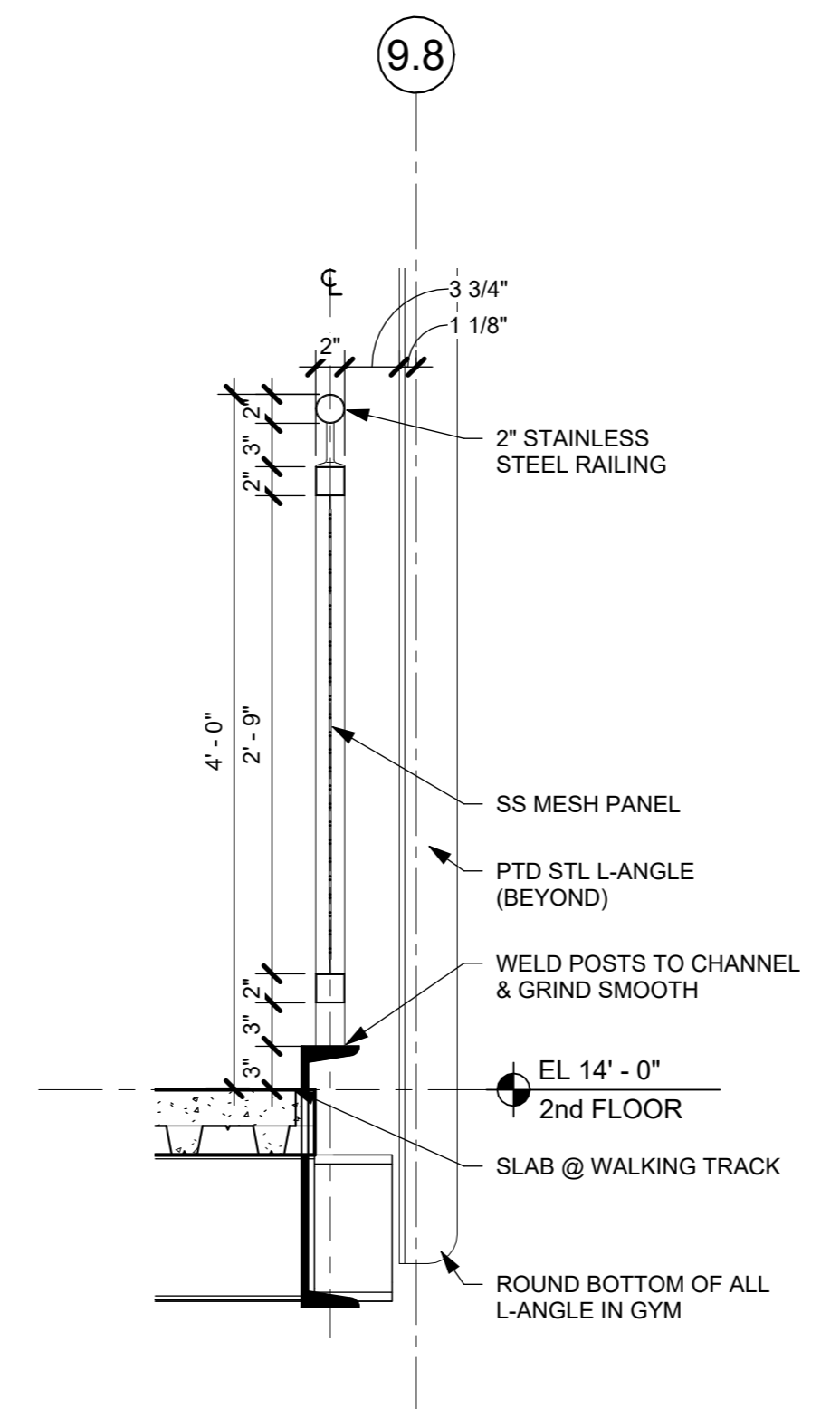
Job No. 2020-1005 Date 02/21/24
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Sheet Number **A704**



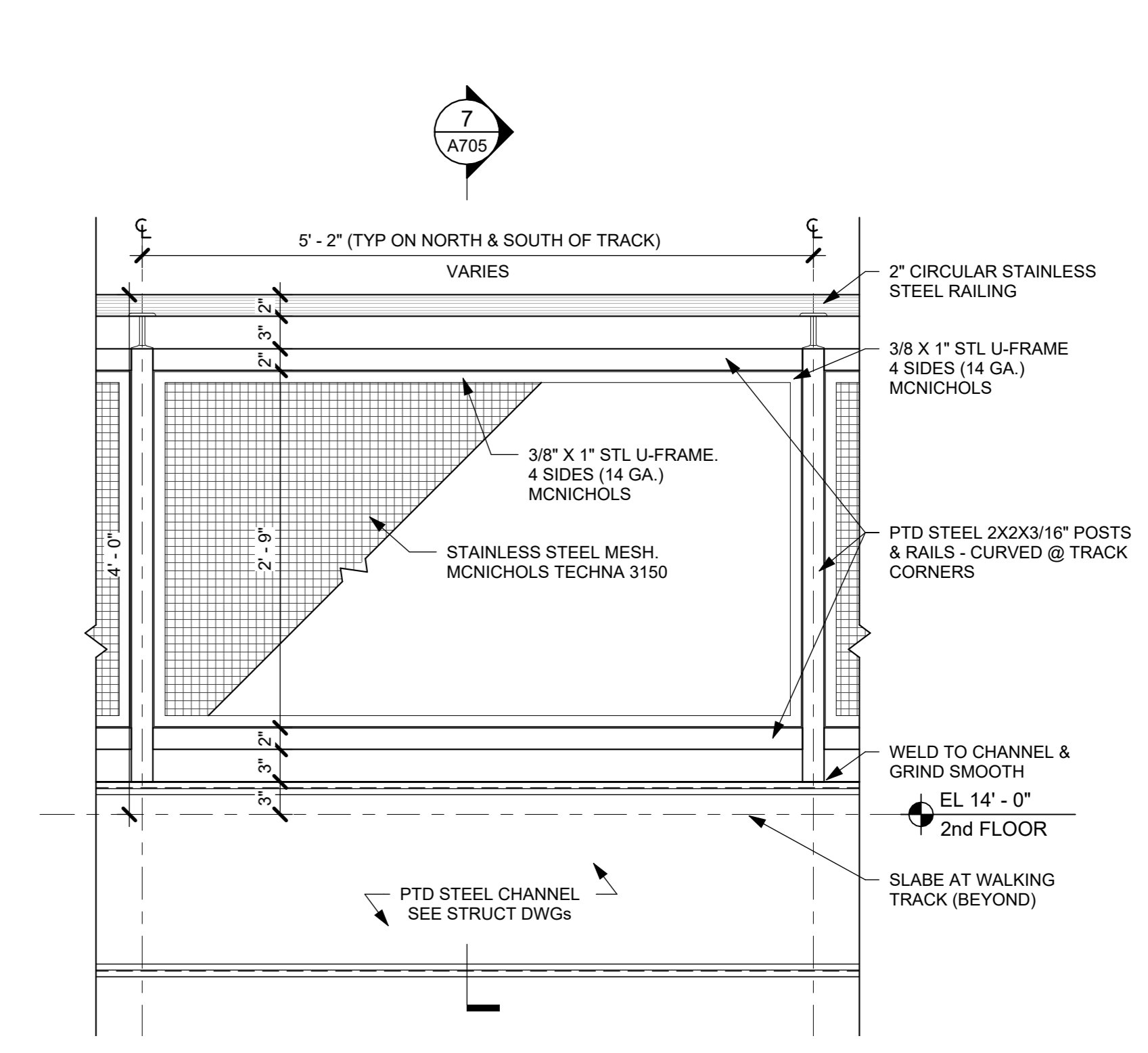
9 TRACK GUARDRAIL SECTION @ BLEACHERS
1" = 1'-0"



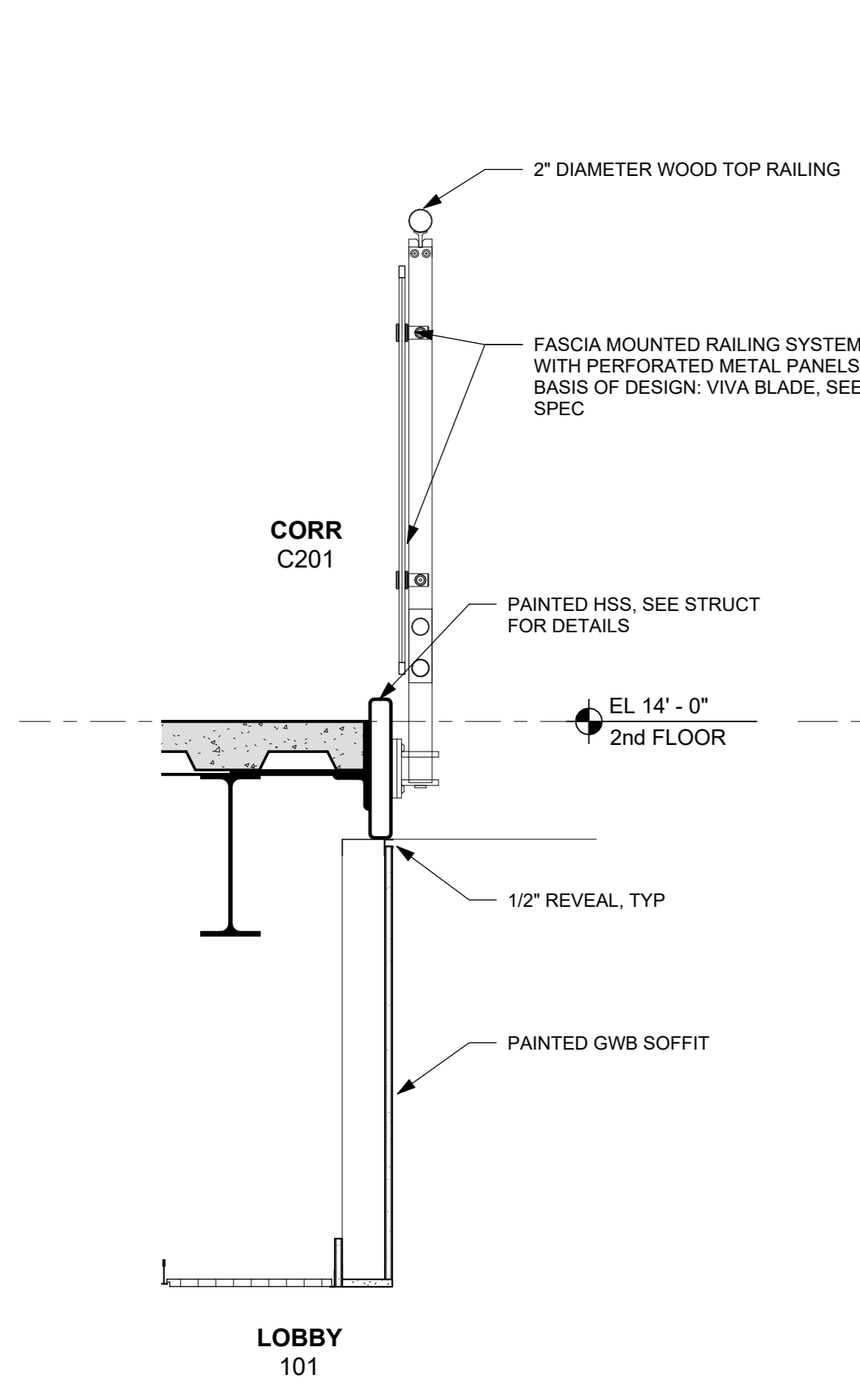
8 TRACK GUARDRAIL ELEVATION @ BLEACHERS
1" = 1'-0"



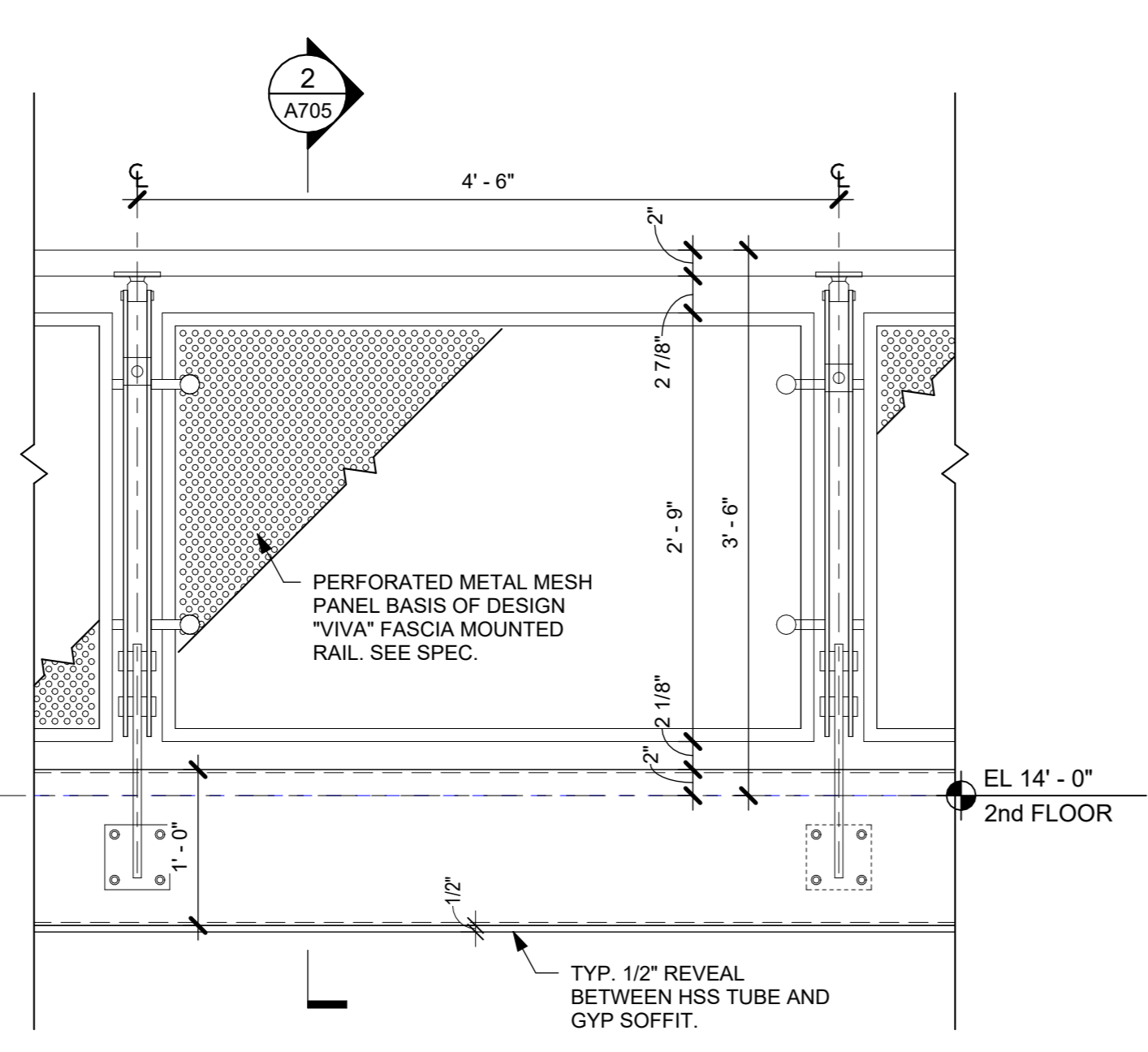
7 TRACK GUARDRAIL SECTION
1" = 1'-0"



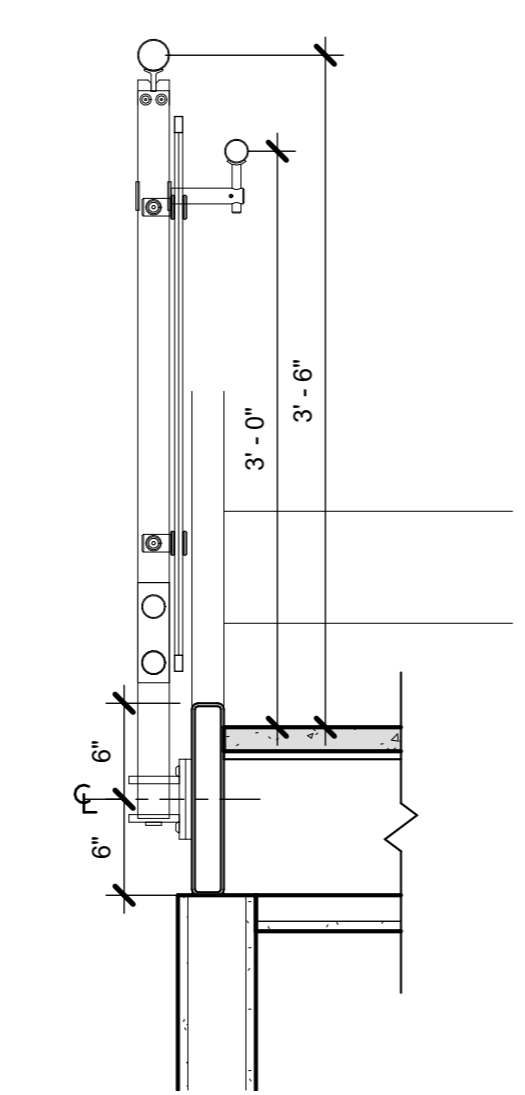
6 TRACK GUARDRAIL ENLARGED ELEVATION
1" = 1'-0"



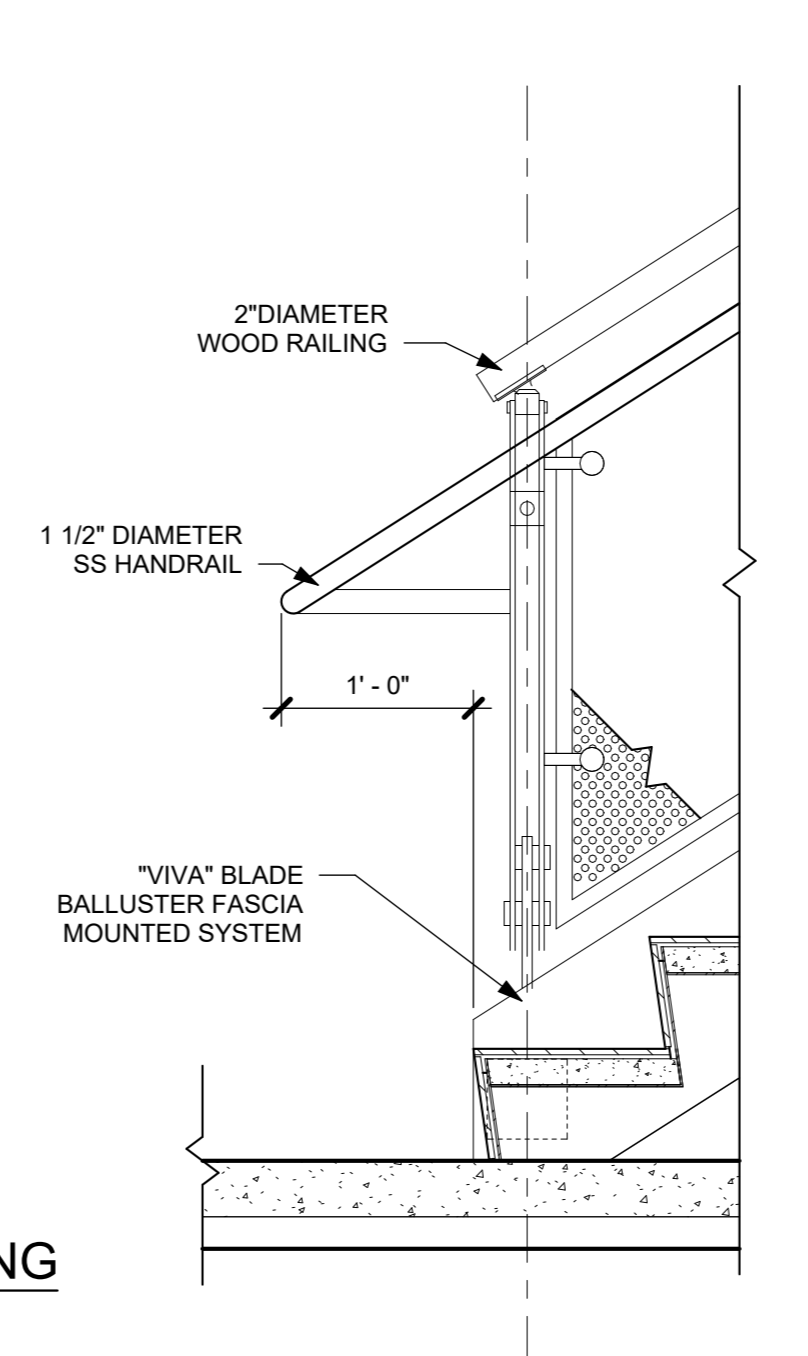
2 GUARDRAIL SECTION @ CORR C201
1" = 1'-0"



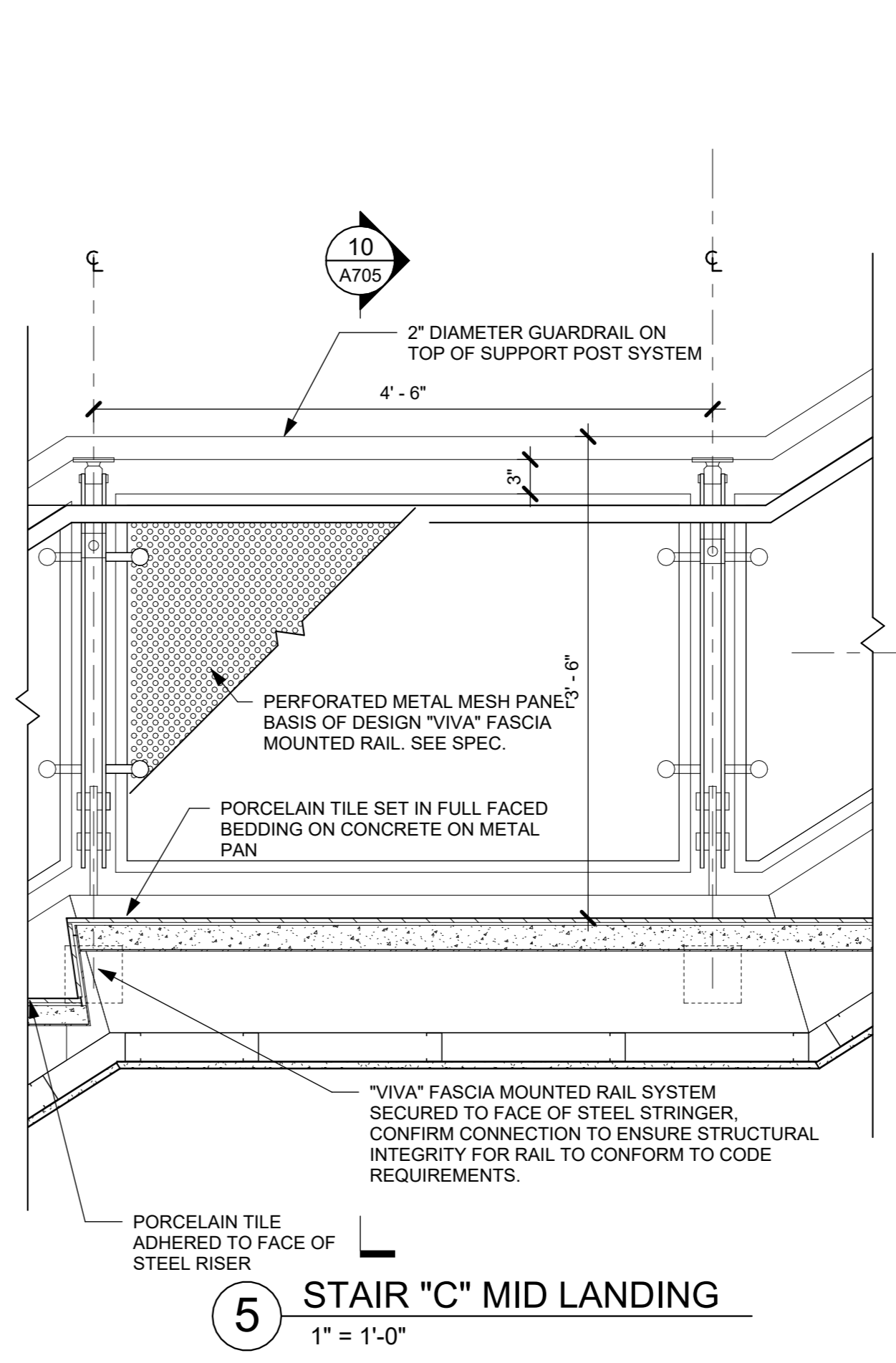
1 GUARDRAIL ELEVATION @ CORR C201
1" = 1'-0"



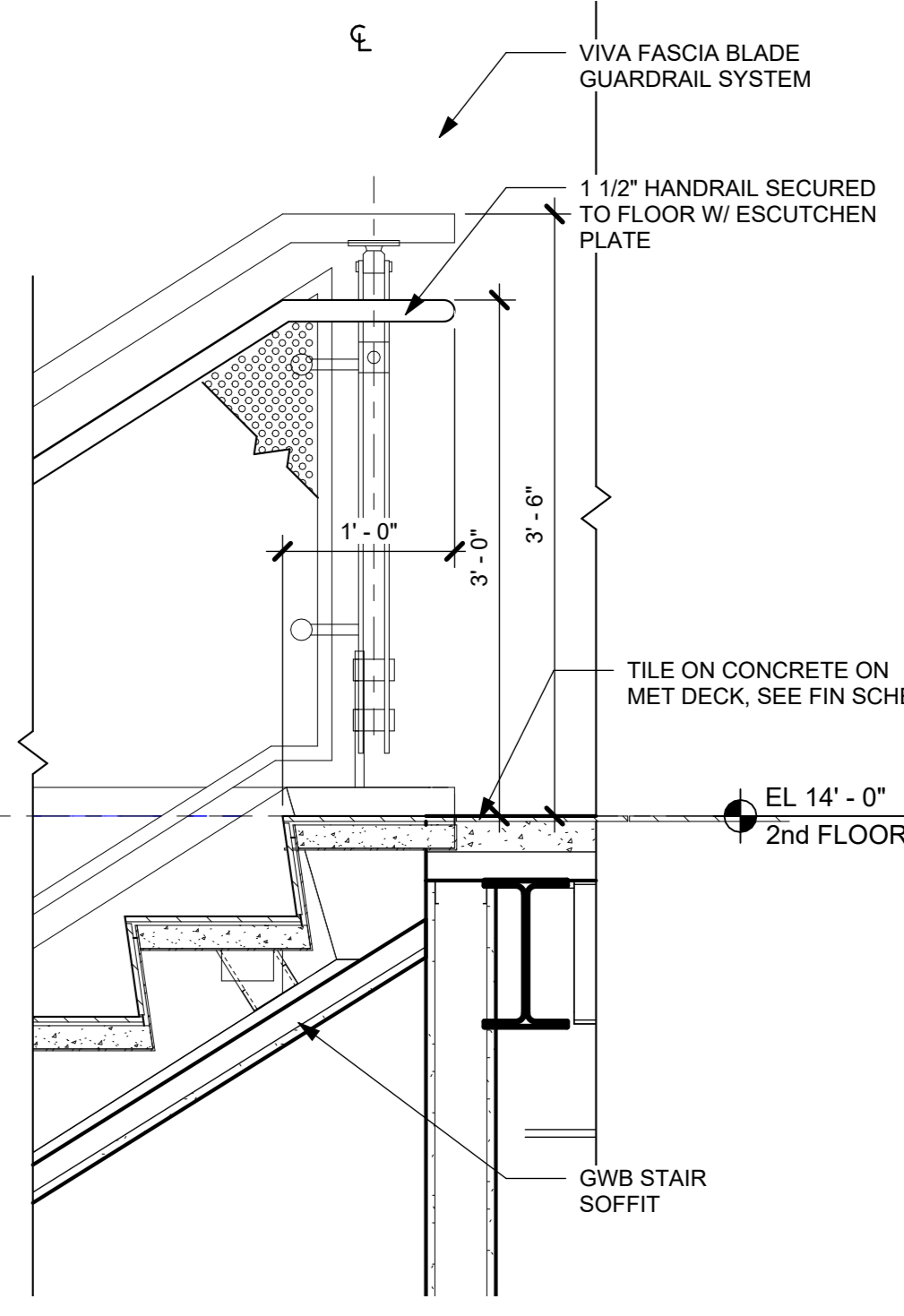
10 RAILING SECTION @ STAIR "C" LANDING
1" = 1'-0"



3 STAIR "C" 1st FL LANDING
1" = 1'-0"



5 STAIR "C" MID LANDING
1" = 1'-0"



4 STAIR "C" 2nd FL LANDING
1" = 1'-0"

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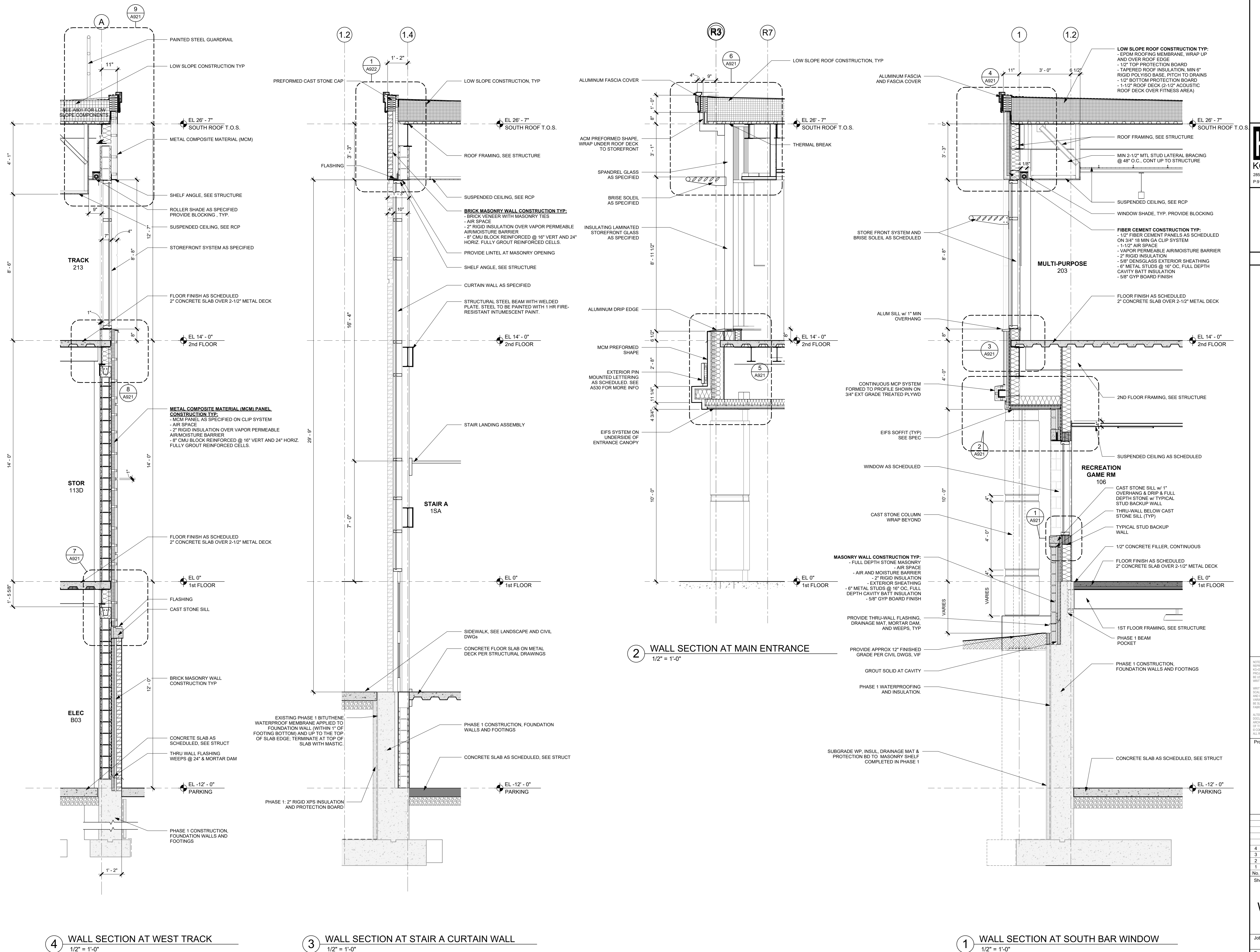
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| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

**TYPICAL STAIR "C"
DETAILS & TRACK
GUARDRAIL
DETAILS**

| Job No. | Date |
|-----------|----------|
| 2020-1005 | 02/21/24 |

| Scale | Drawn / Checked |
|----------|------------------|
| AS NOTED | Author / Checker |

Sheet Number
A705



4 WALL SECTION AT WEST TRACK
1/2" = 1'-0"

3 WALL SECTION AT STAIR A CURTAIN WALL
1/2" = 1'-0"

2 WALL SECTION AT MAIN ENTRANCE
1/2" = 1'-0"

1 WALL SECTION AT SOUTH BAR WINDOW
1/2" = 1'-0"

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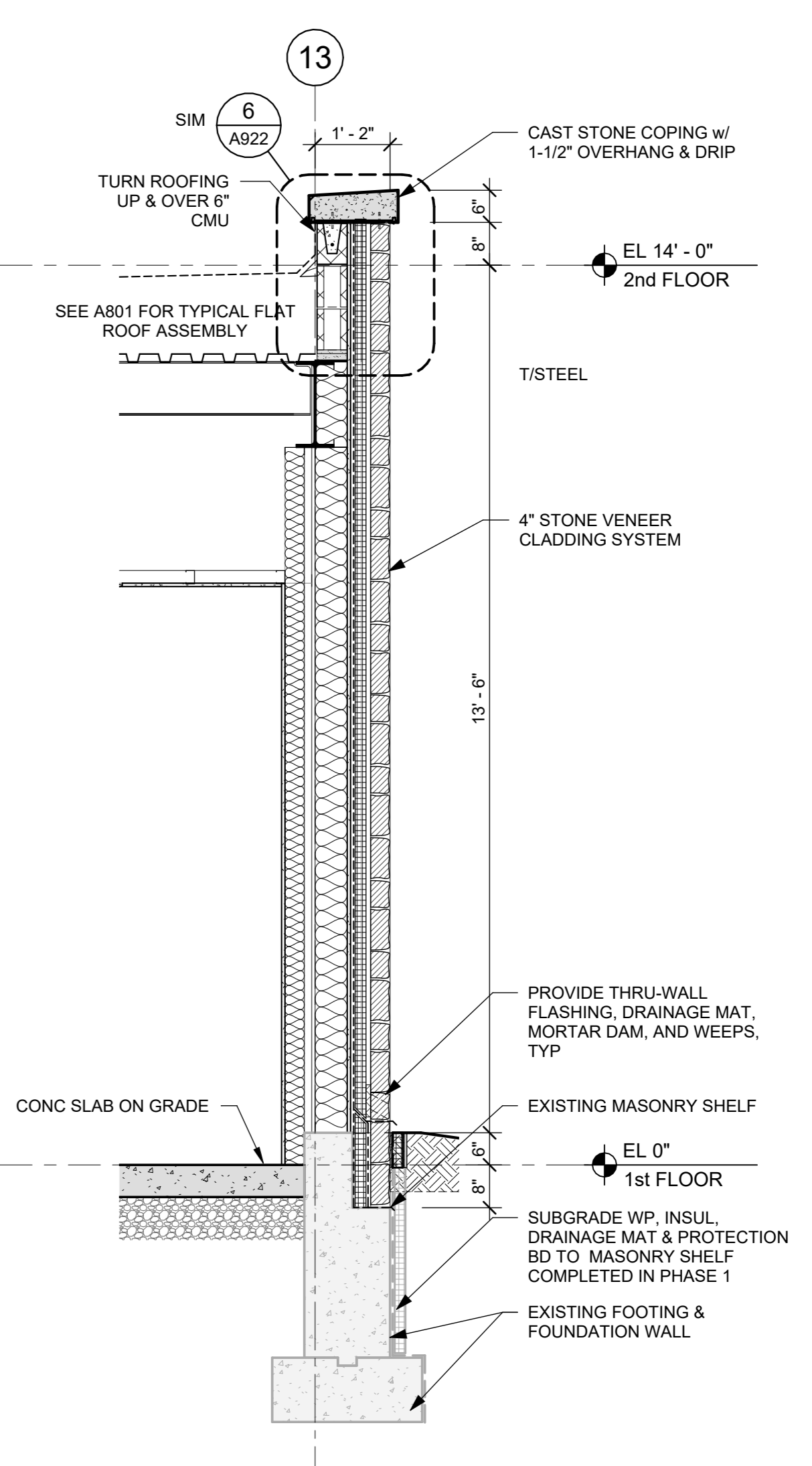
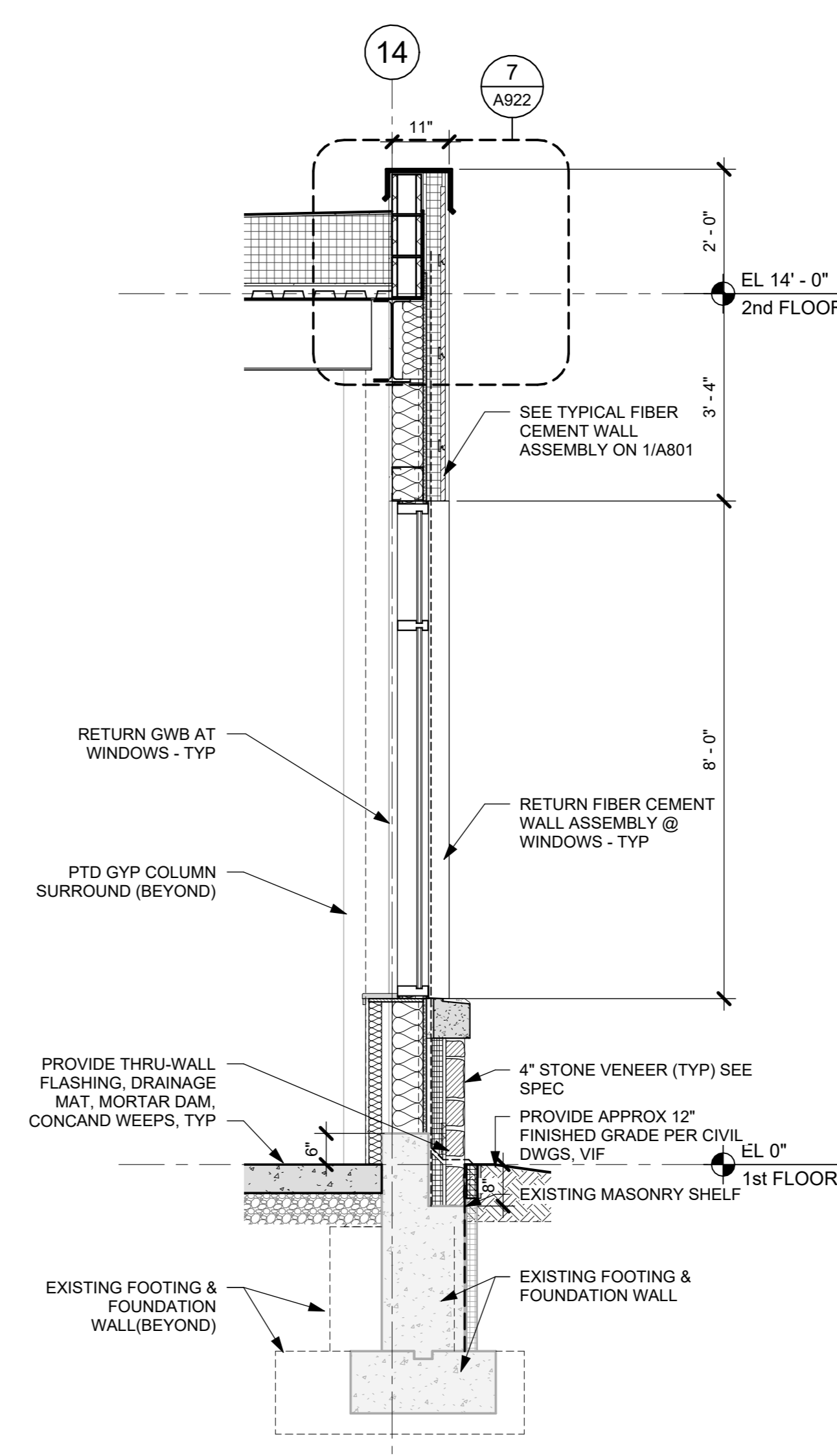
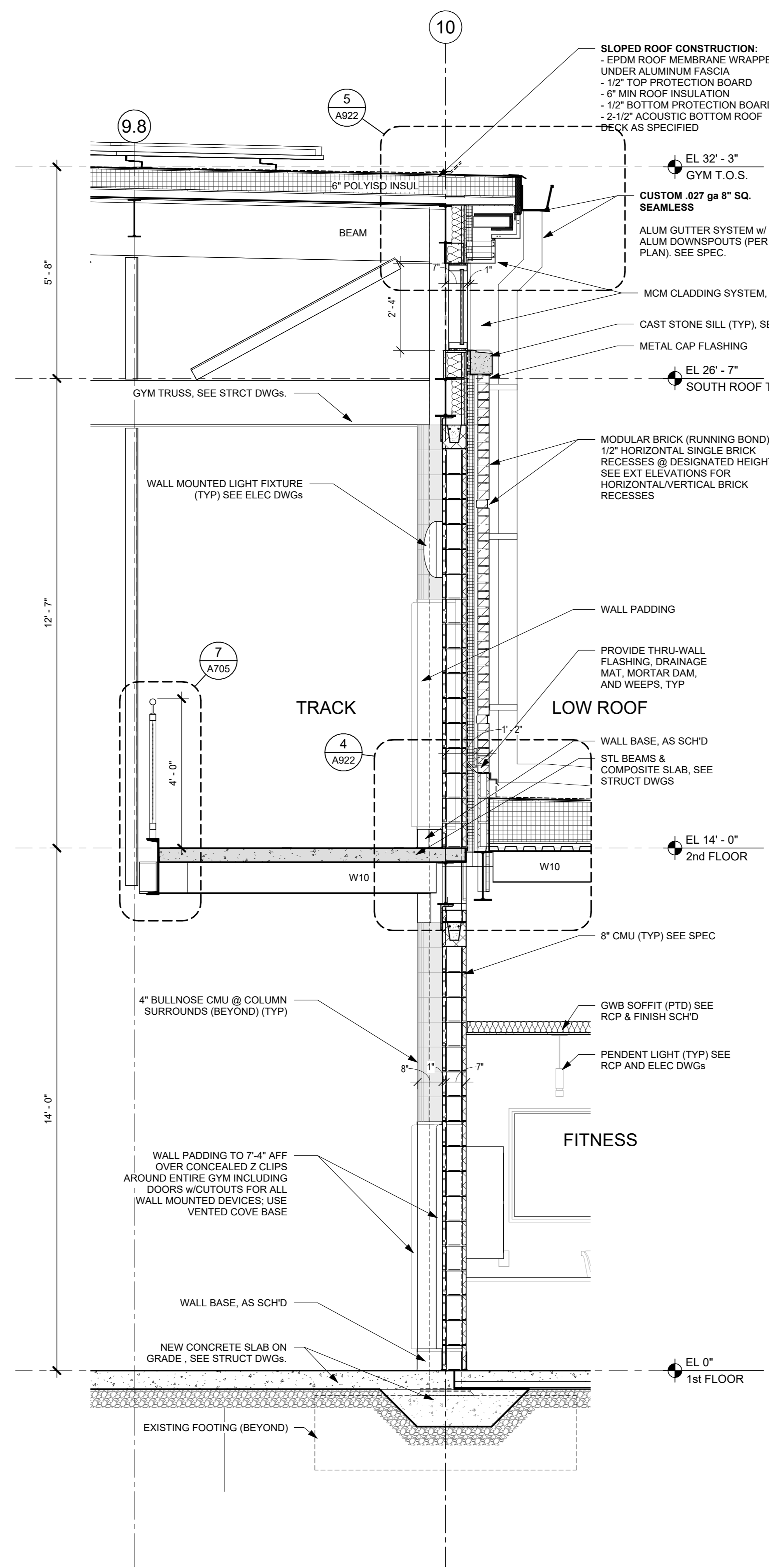
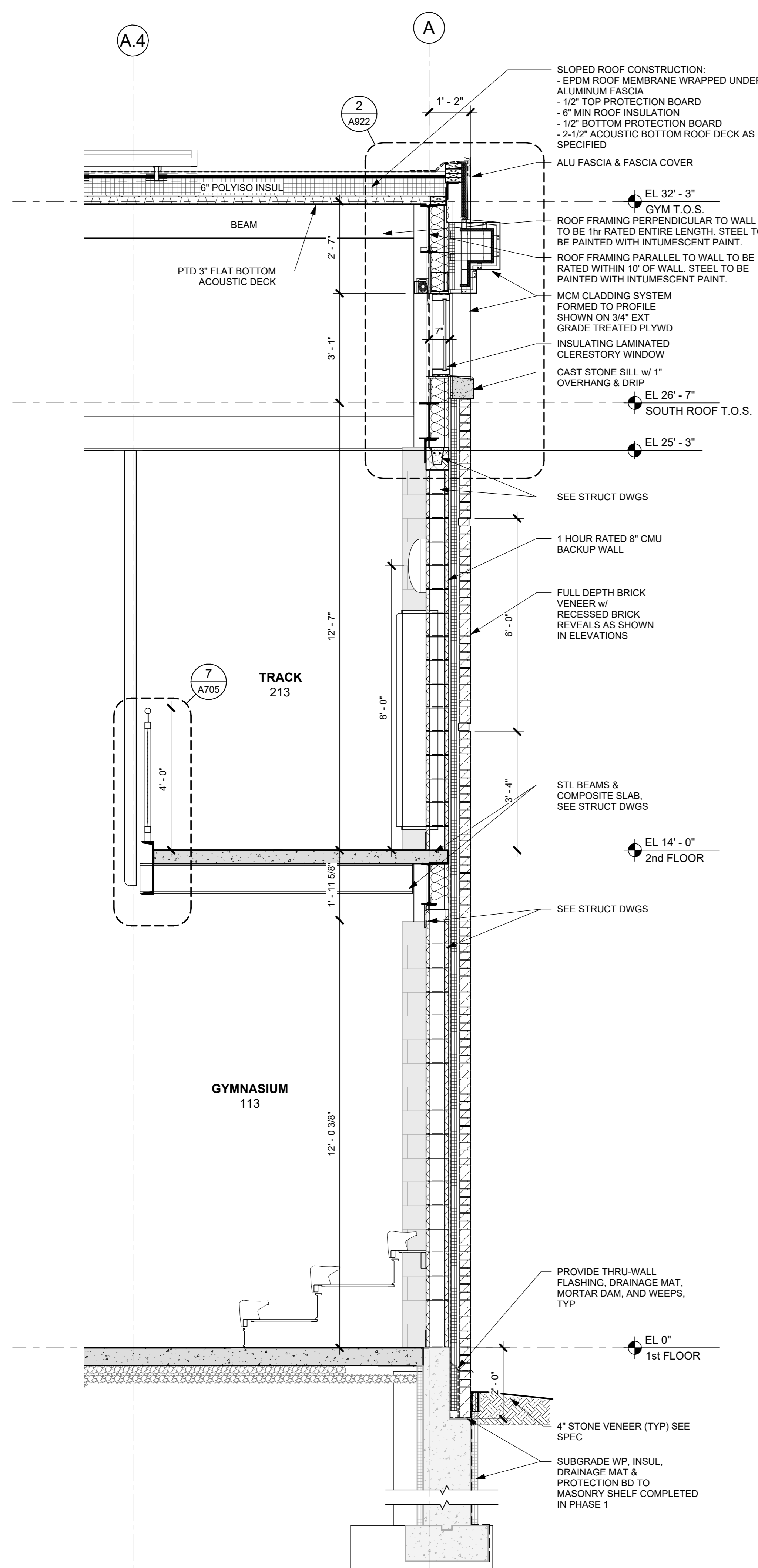
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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

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WALL SECTIONS

| | | | |
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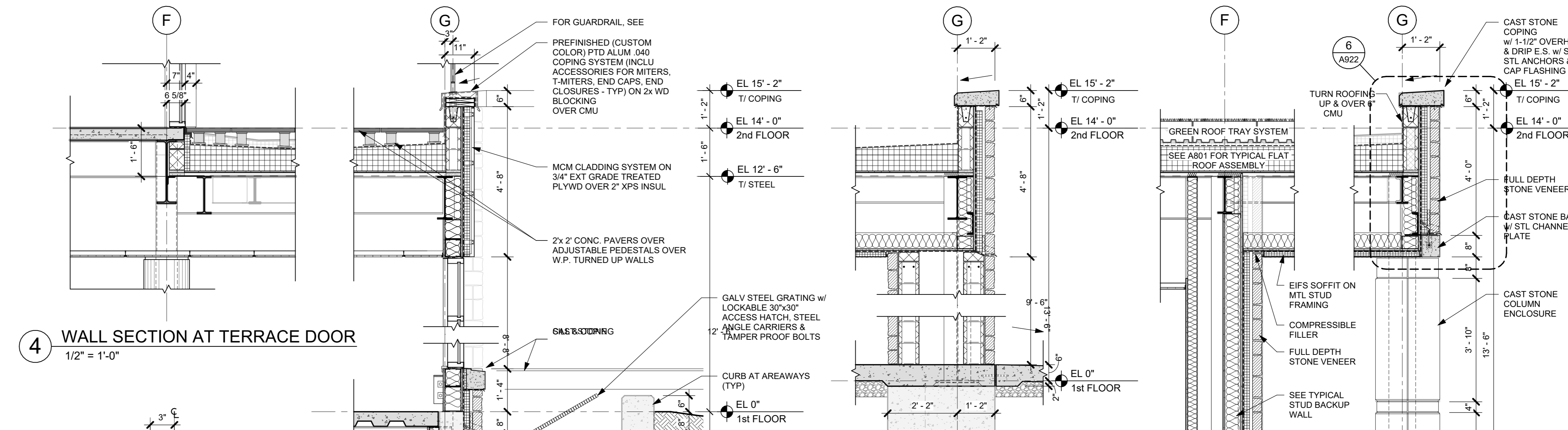
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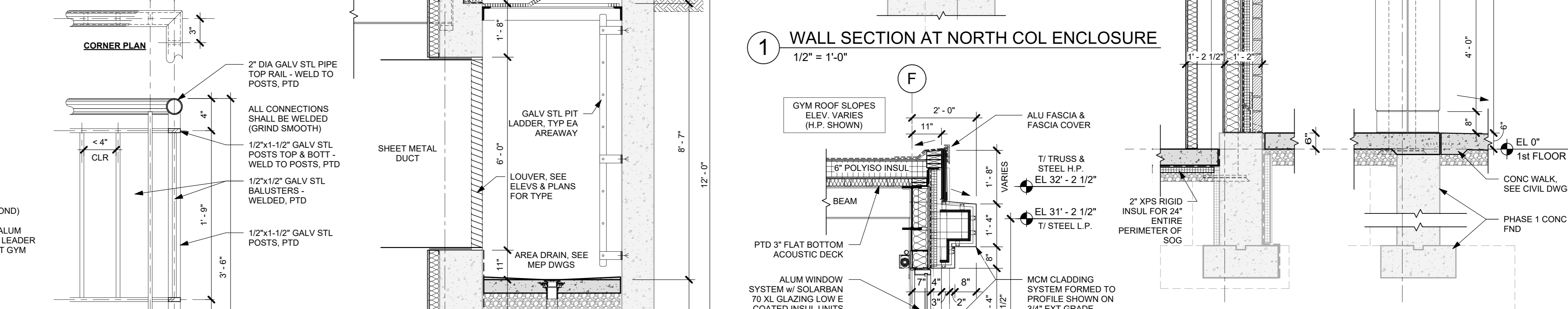
WALL SECTIONS

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| Job No. | 2020-1005 | Date | 01/02/24 |
| Scale | AS NOTED | Drawn / Checked | Author / Checker |
| Sheet Number | A802 | | |



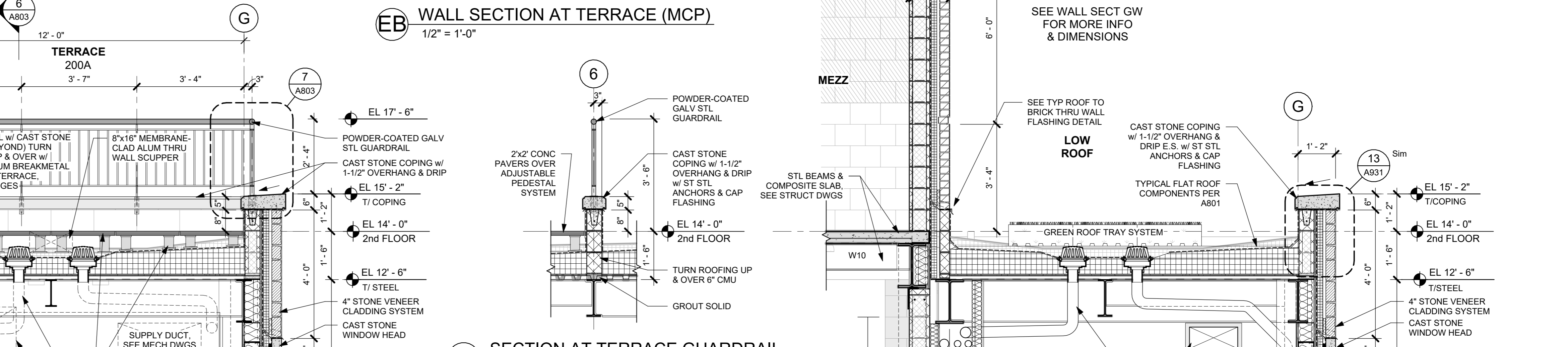
4 WALL SECTION AT TERRACE DOOR
1/2" = 1'-0"

1 WALL SECTION AT NORTH COL ENCLOSURE
1/2" = 1'-0"



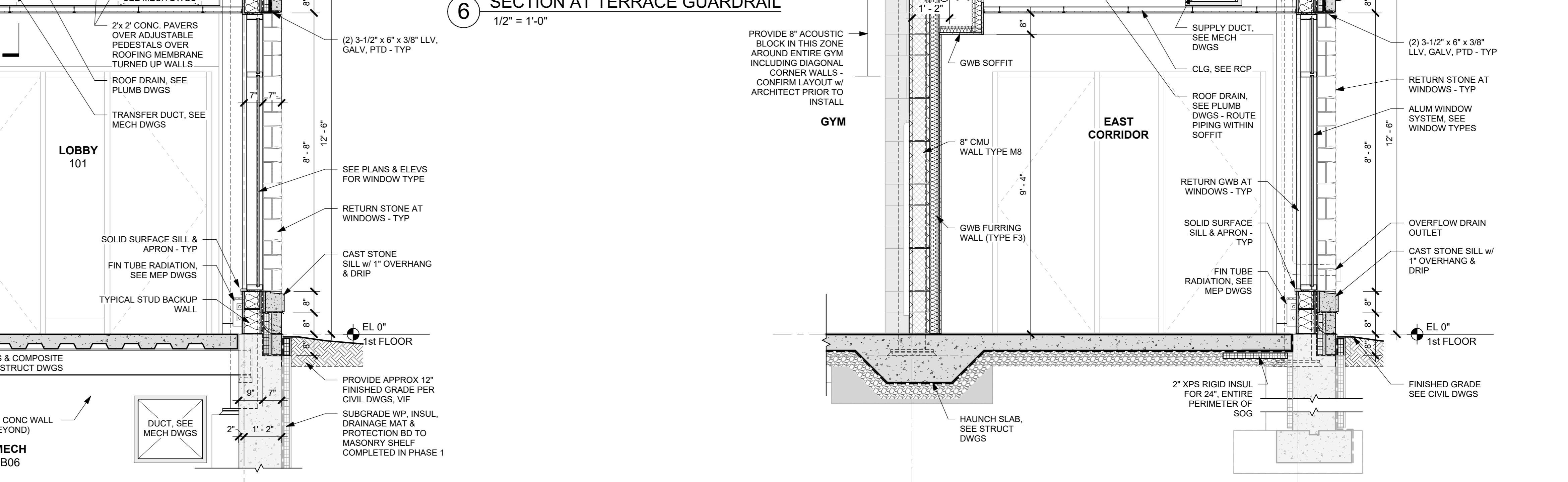
7 TERRACE GUARDRAIL DETAIL
1 1/2" = 1'-0"

11 CORNER PLAN



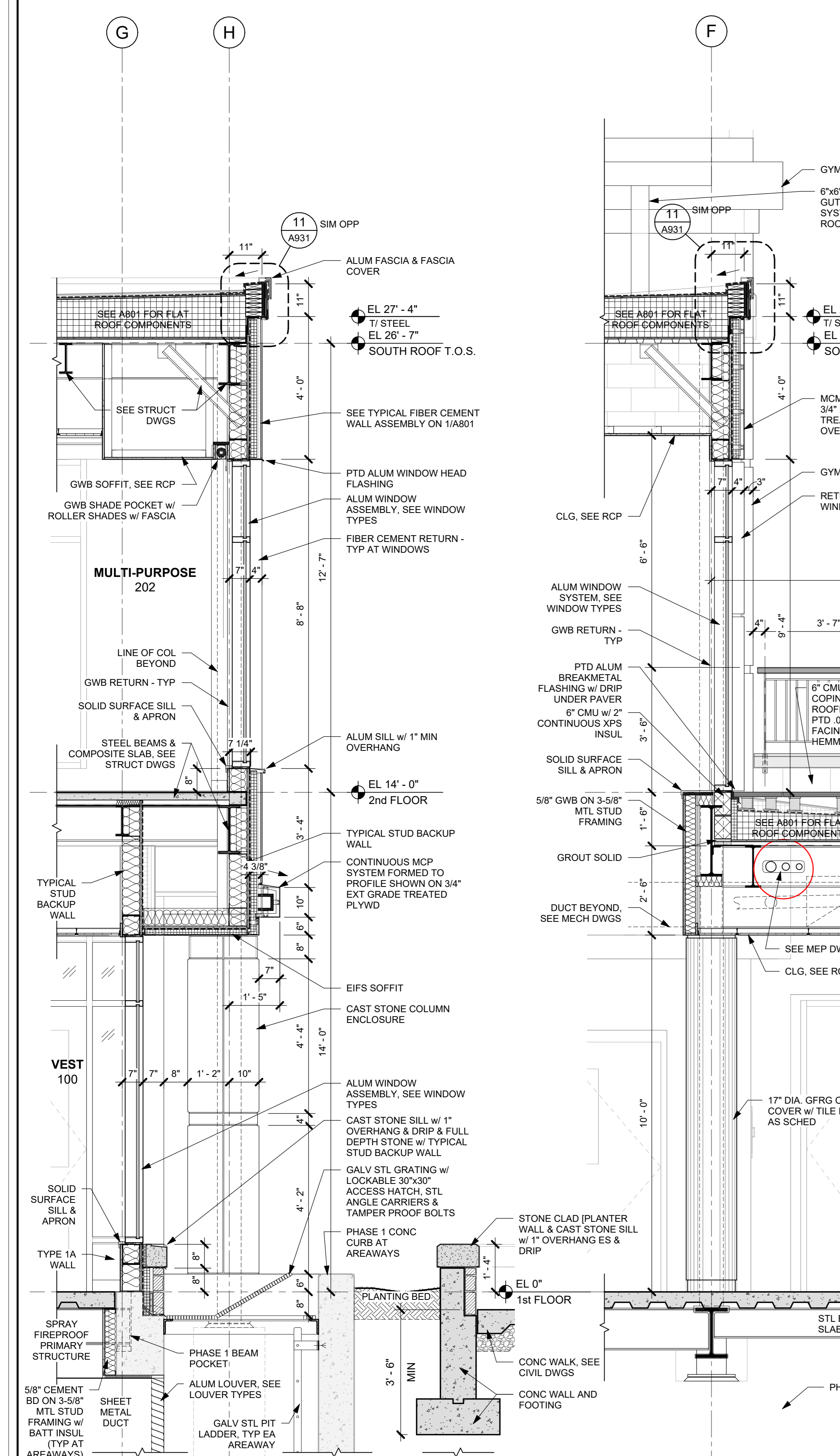
EB WALL SECTION AT TERRACE (MCP)
1/2" = 1'-0"

EF WALL SECTION AT NORTH ENTRANCE
1/2" = 1'-0"



6 SECTION AT TERRACE GUARDRAIL
1/2" = 1'-0"

ED WALL SECTION AT EAST CORRIDOR
1/2" = 1'-0"



EA WALL SECTION AT ENTRANCE LOBBY
1/2" = 1'-0"

EC WALL SECTION AT TERRACE
1/2" = 1'-0"

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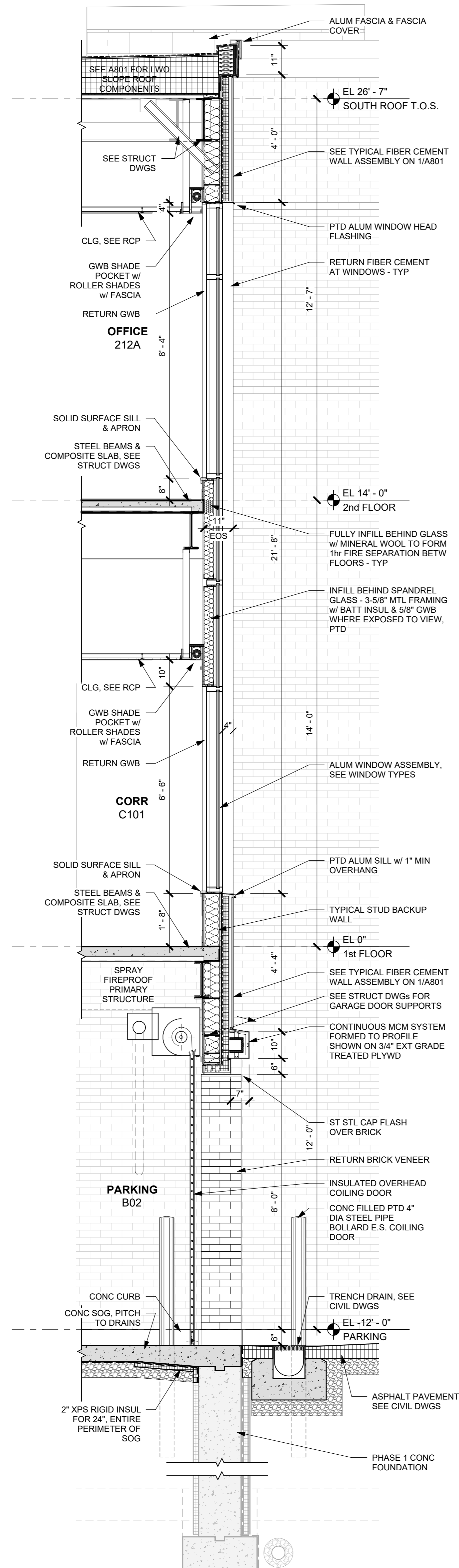
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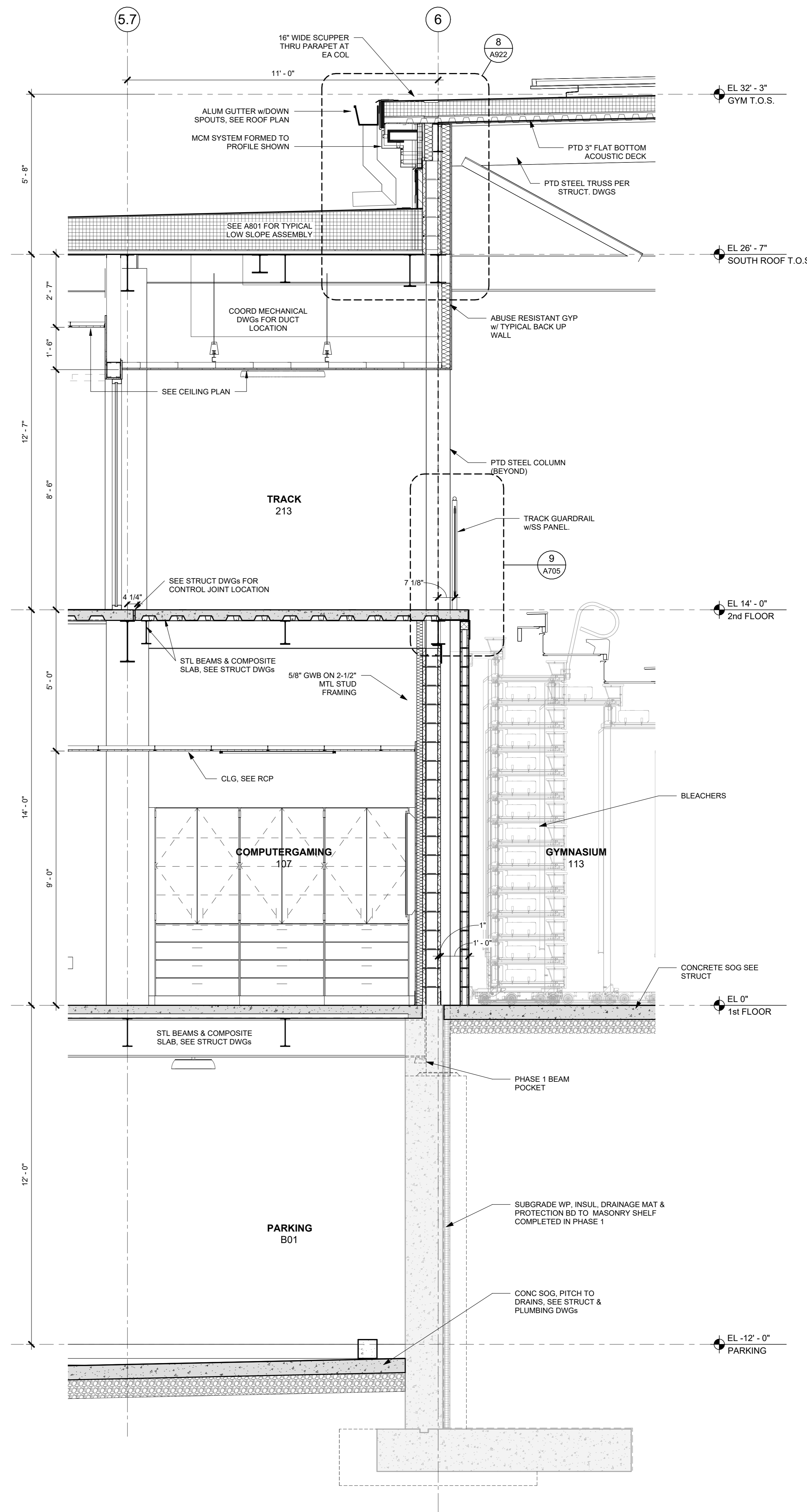
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WALL SECTIONS

| Job No. | Date |
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| 2020-1005 | 02/02/2024 |
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| AS NOTED | KG+D |
| Sheet Number | |



2 WALL SECTION AT PARKING ENTRY
1/2" = 1'-0"



1 WALL SECTION AT TRACK AND GYMNASIUM NORTH
1/2" = 1'-0"

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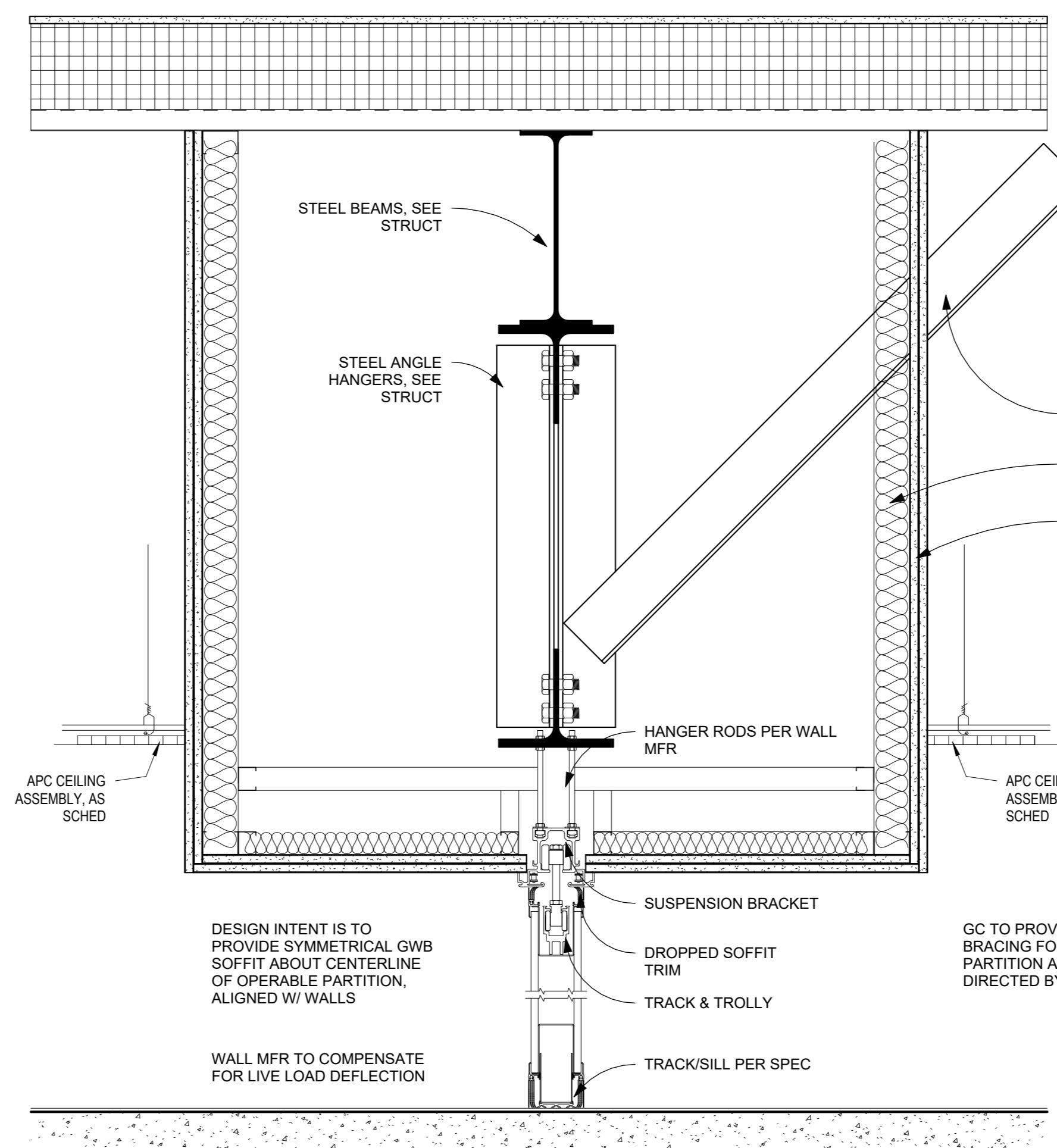
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Job No. 2020-1005 Date 01/22/24

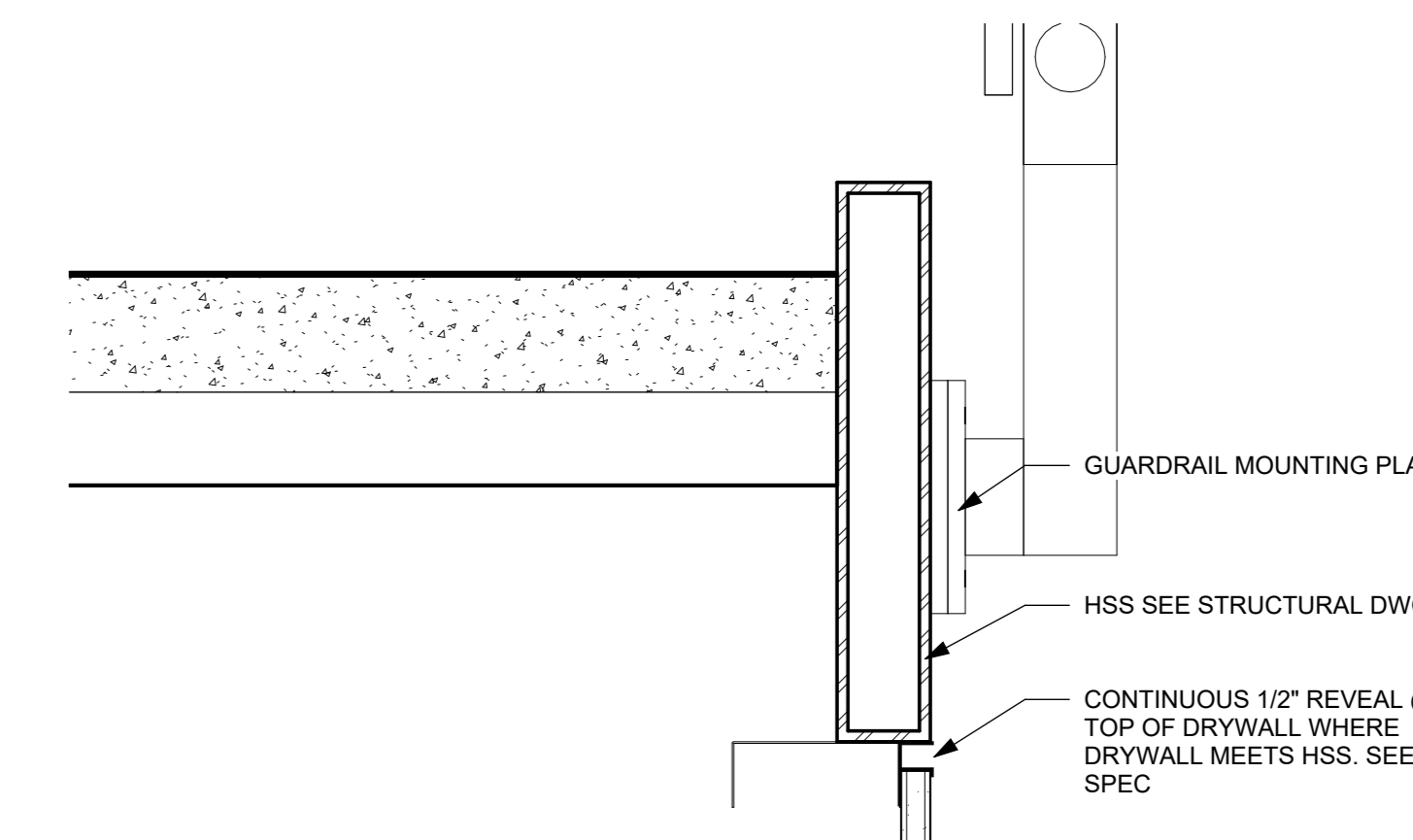
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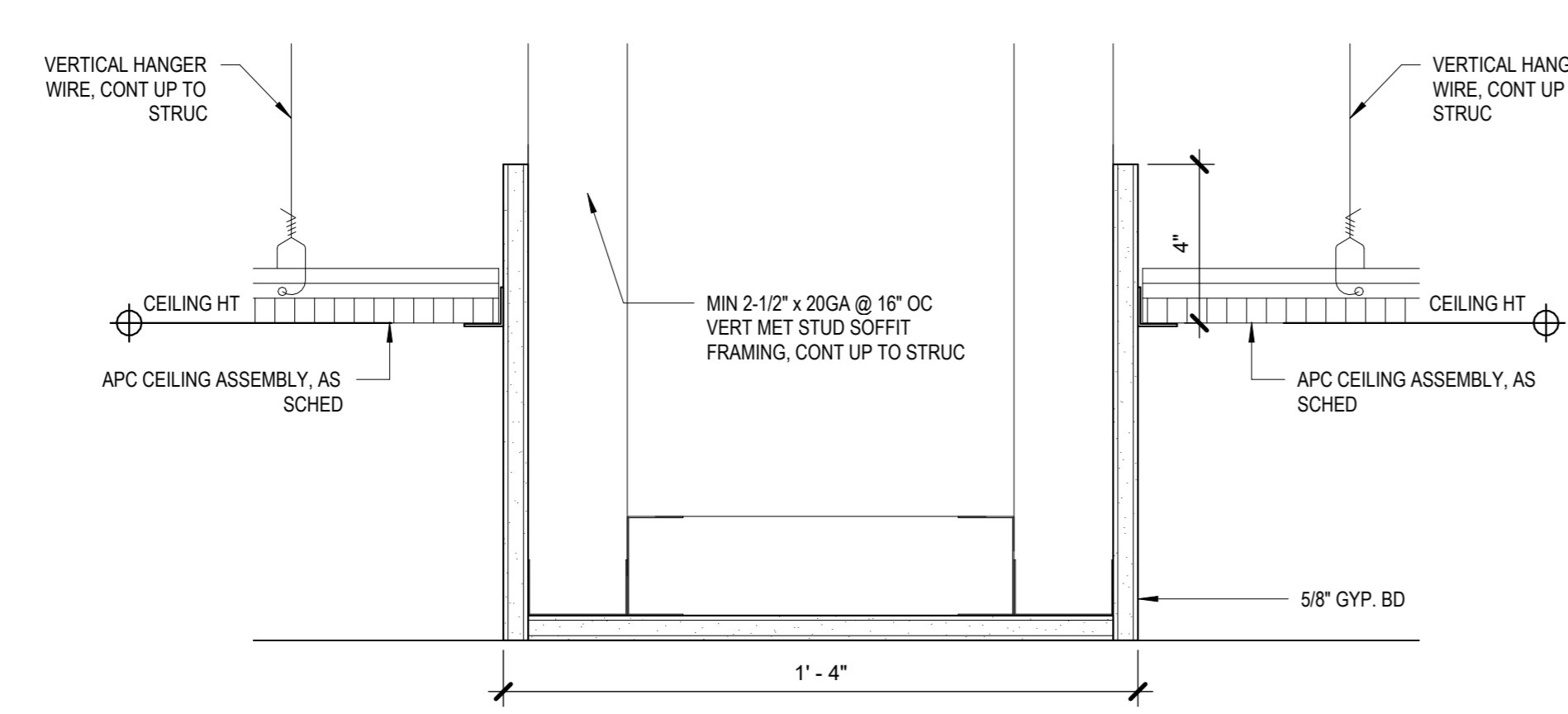
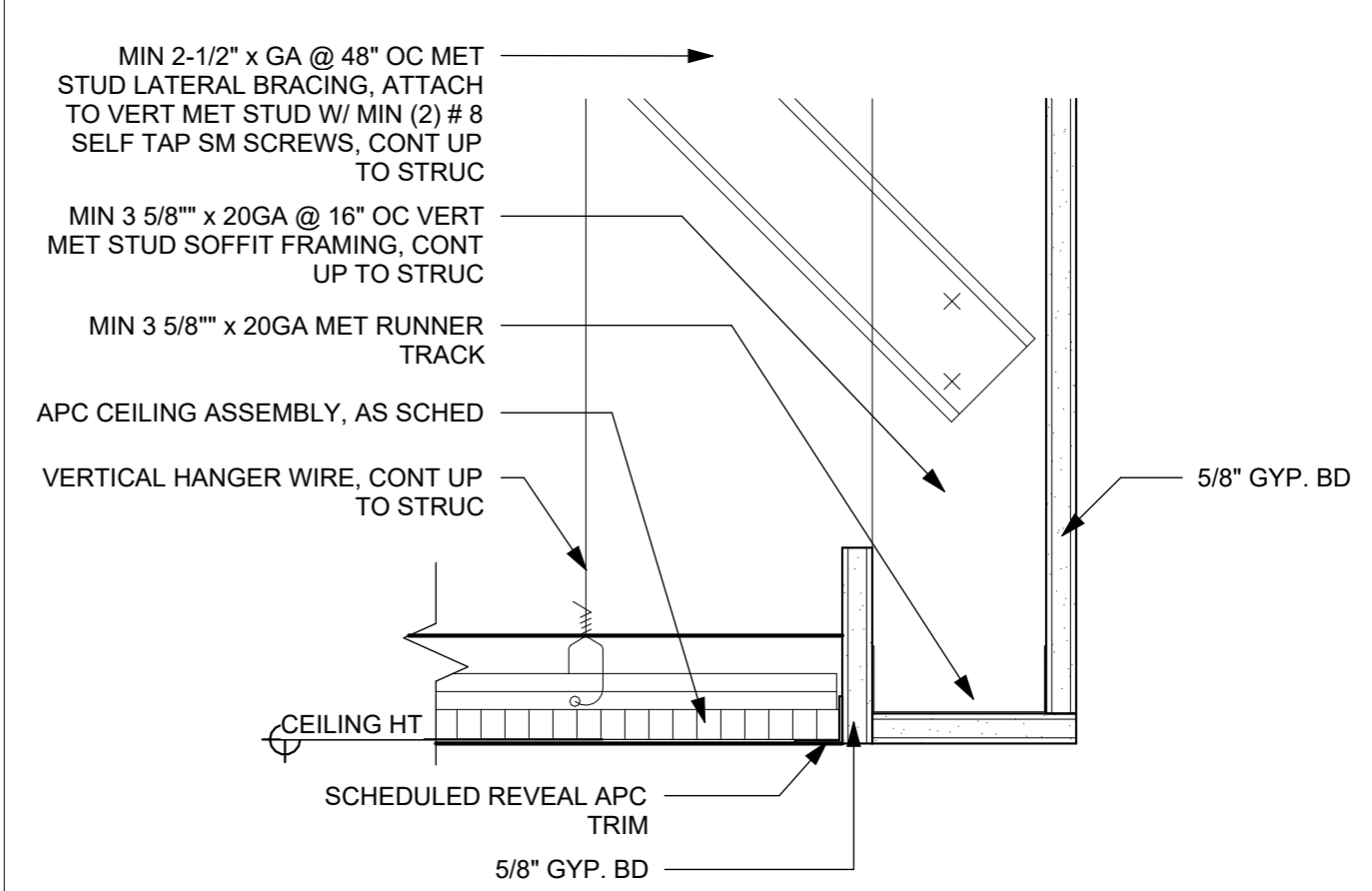
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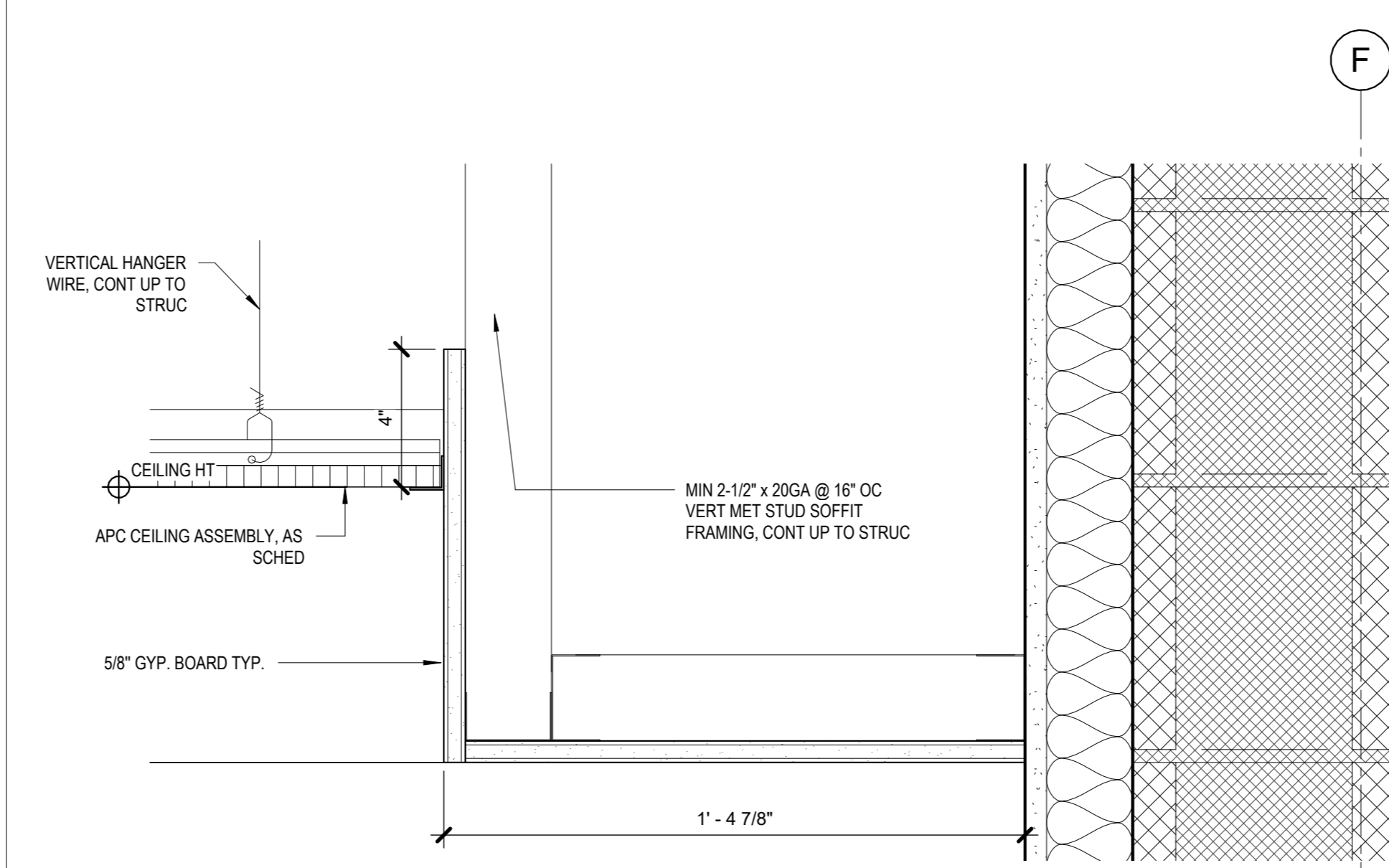
15 OPERABLE PARTITION
1 1/2" = 1'-0"



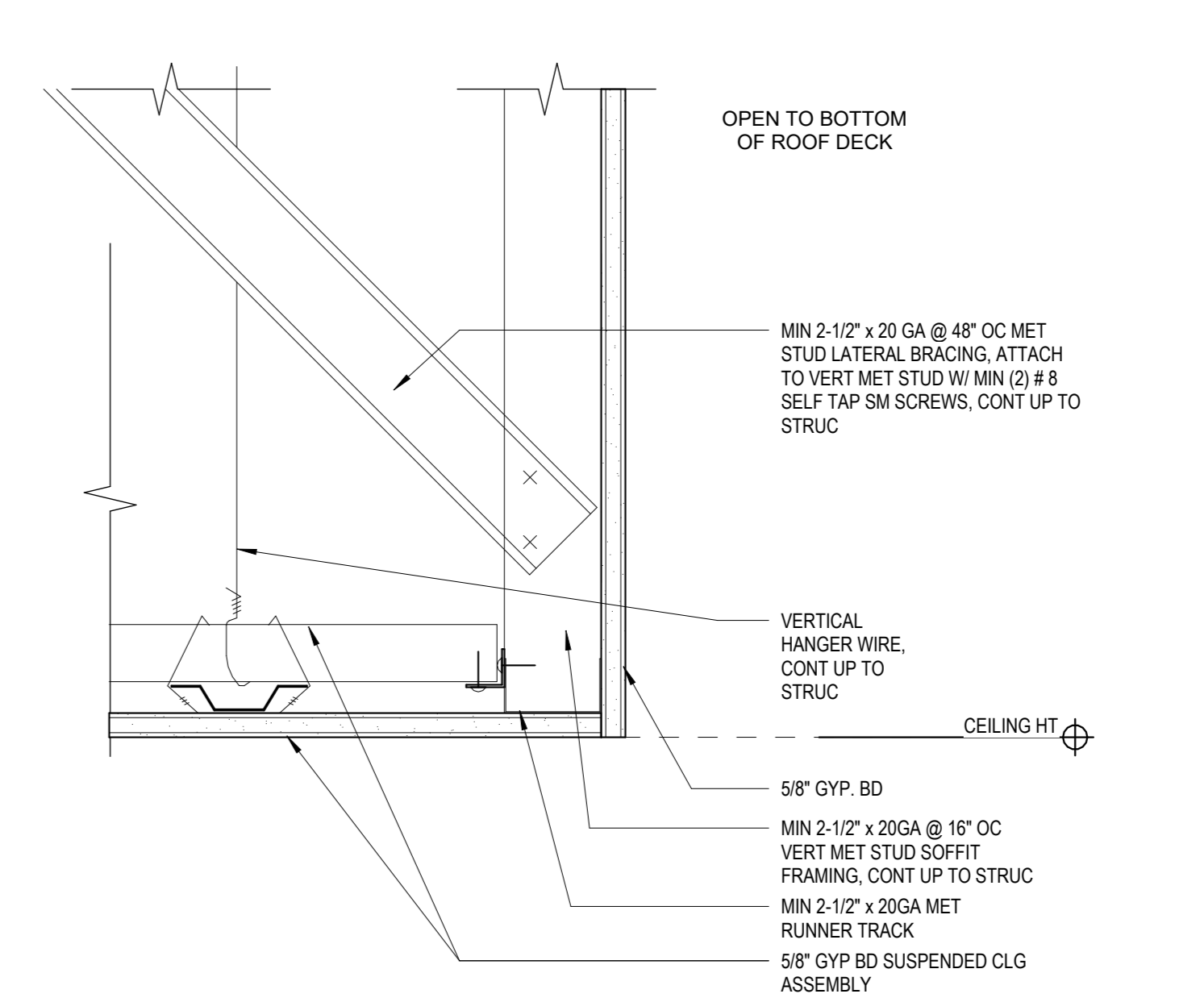
12 CEILING DETAIL @ STAIR C OPENING
3" = 1'-0"



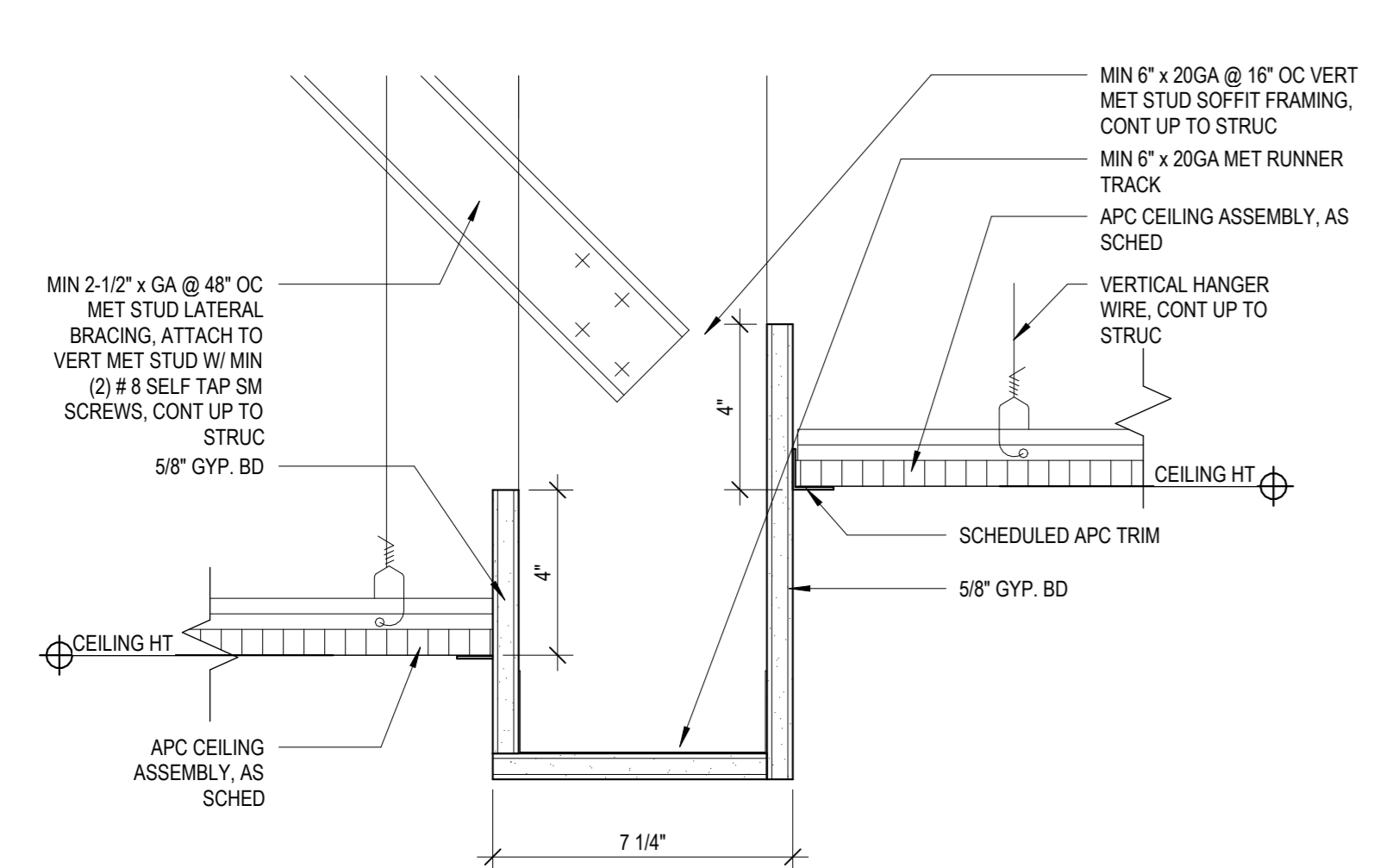
7 CEILING DETAIL @ EAST CORR
3" = 1'-0"



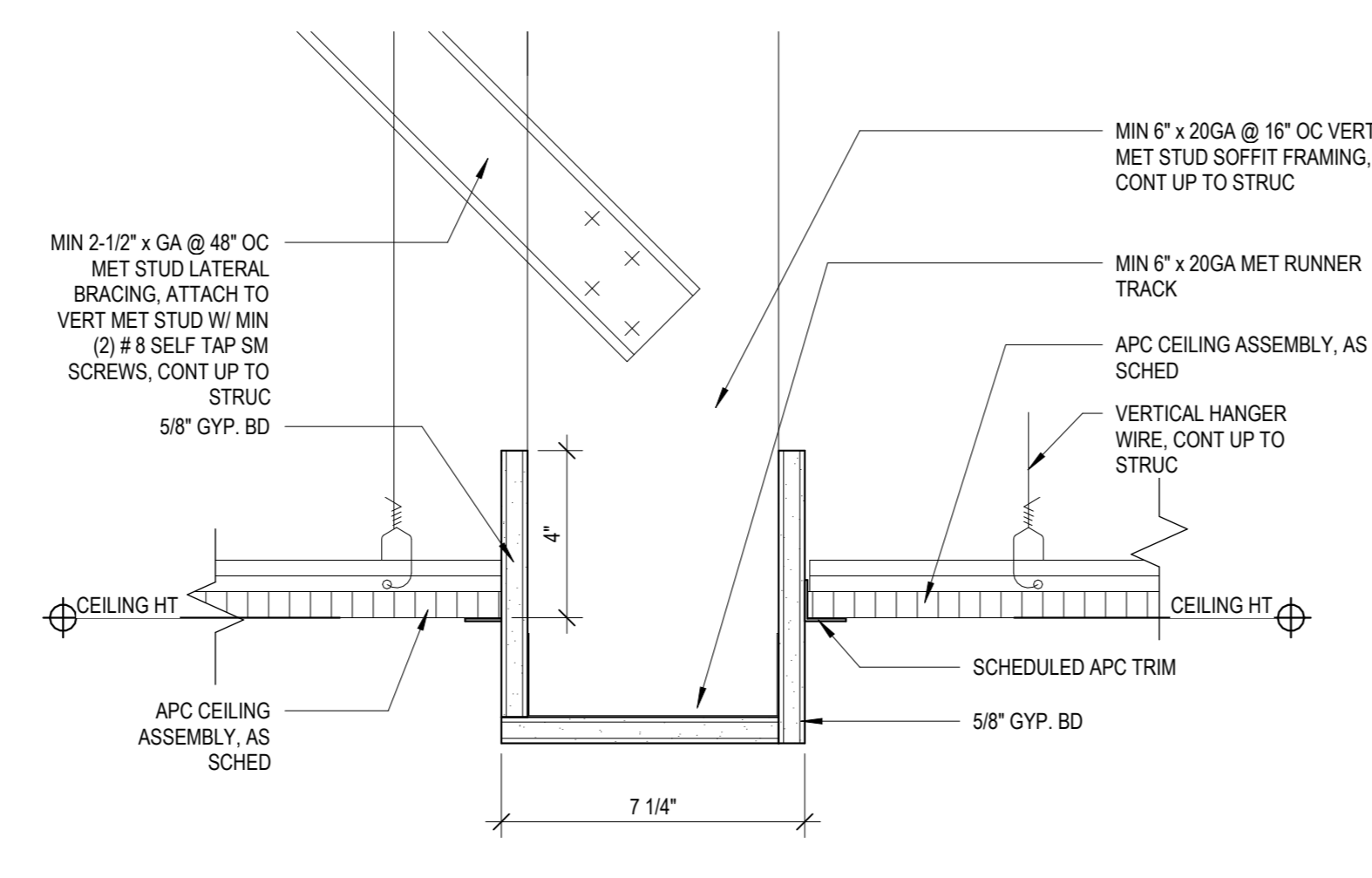
6 CEILING DETAIL @ EAST COR
3" = 1'-0"



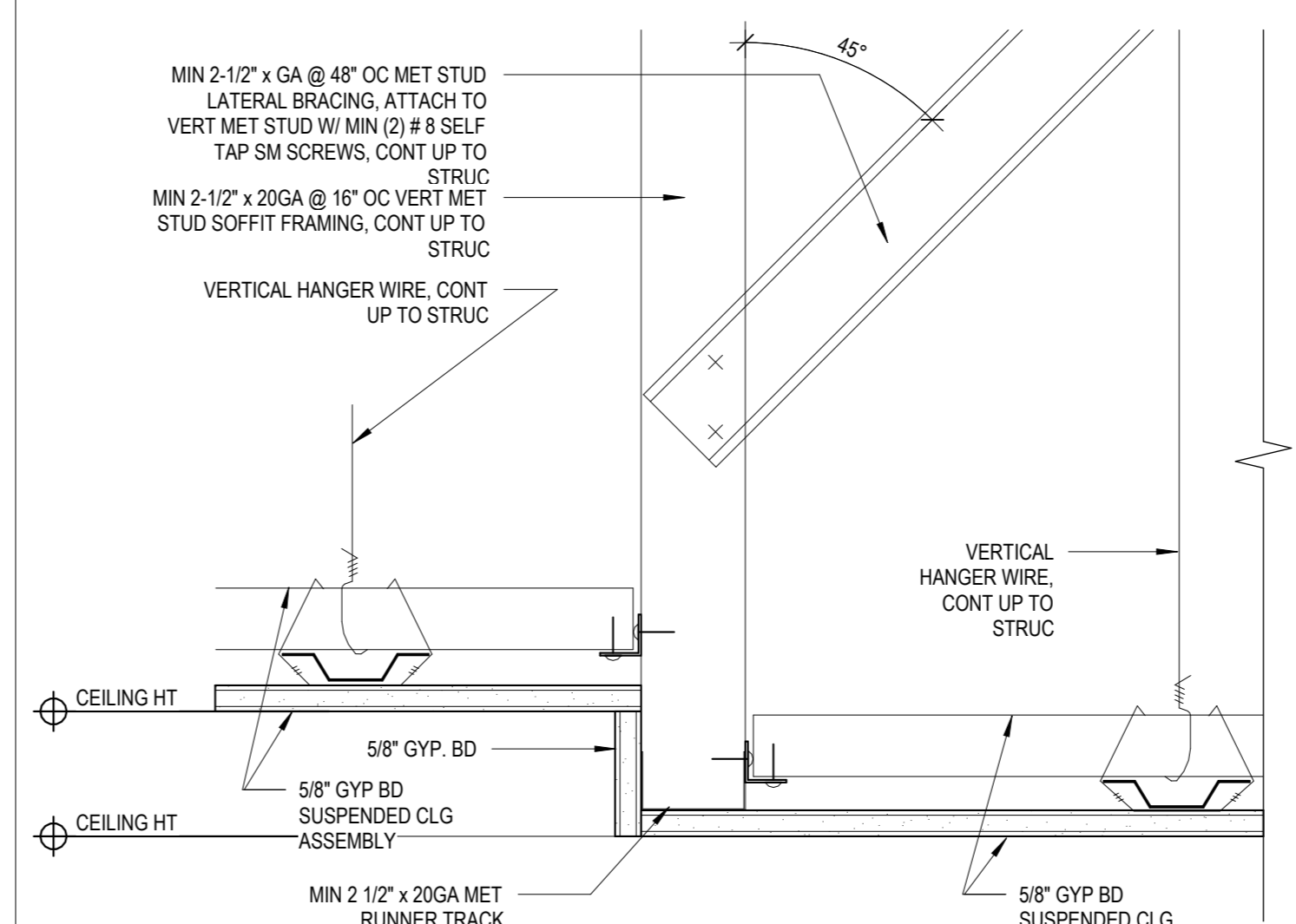
5 CEILING DETAIL @ SOFFIT TO OPEN CEILING
3" = 1'-0"



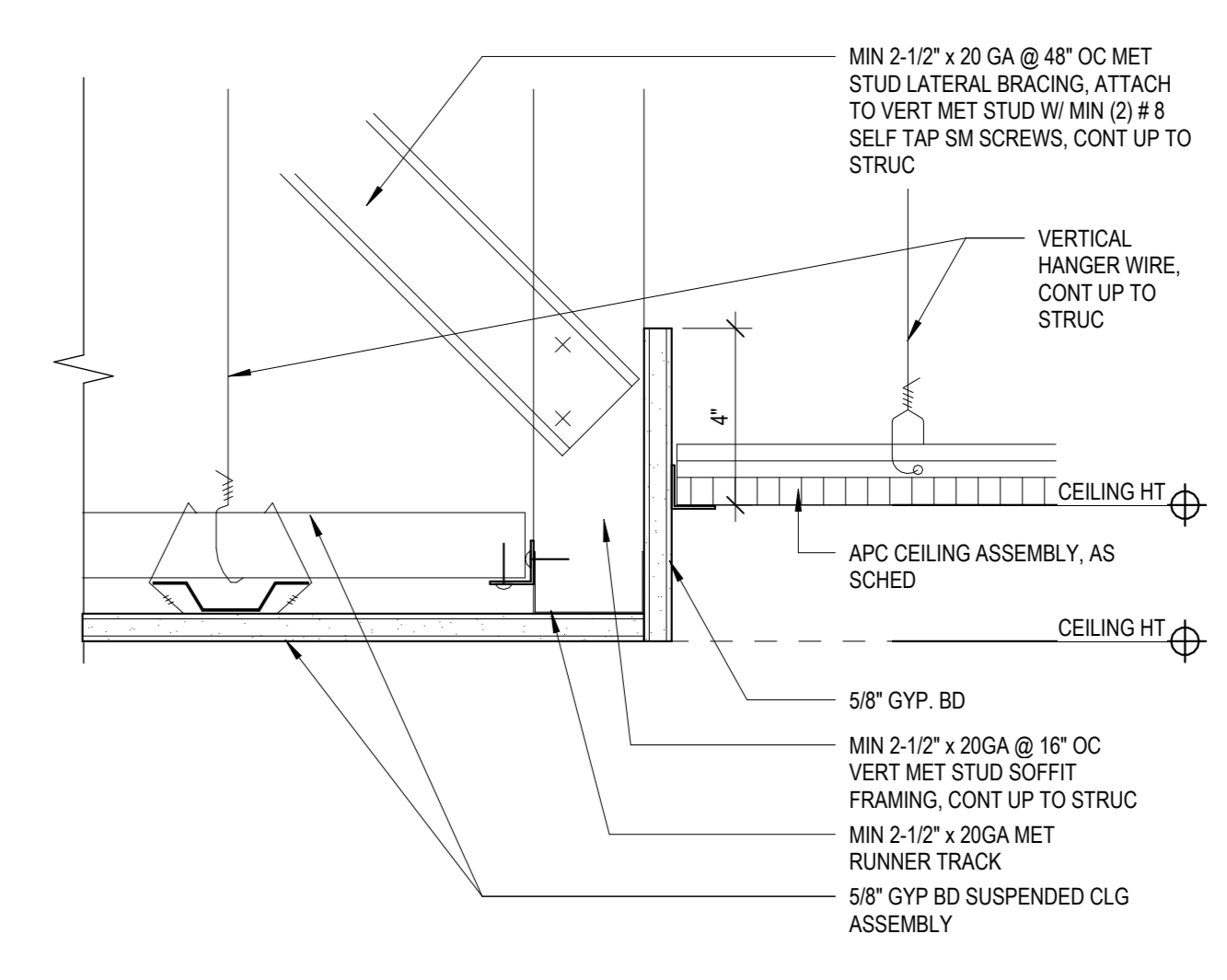
4 CEILING DETAIL AT OPEN OFFICE BULKHEAD
3" = 1'-0"



3 CEILING DETAIL AT BULKHEAD
3" = 1'-0"



2 CEILING DETAIL AT SOFFIT
3" = 1'-0"



1 CEILING DETAIL AT PERIMETER
3" = 1'-0"

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| No. | Date | Issue |
|-----|------------|------------------------|
| 4 | 06/05/2024 | ISSUED FOR BID |
| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title

CEILING DETAILS

| Job No. | Date |
|-----------|----------|
| 2020-1005 | 01/28/24 |

Scale AS NOTED Drawn / Checked Author / Checker

Sheet Number

A805

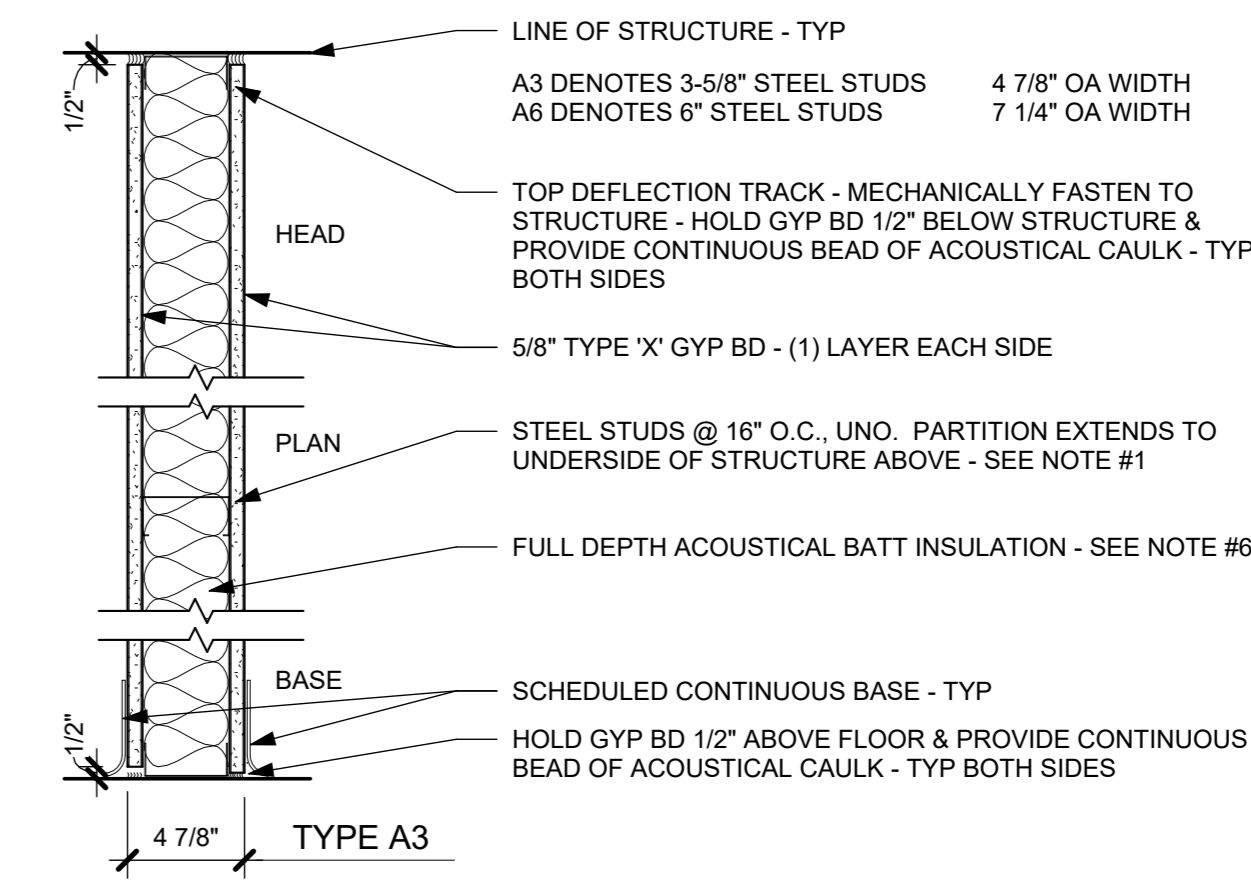
NON-RATED PARTITIONS

1hr RATED PARTITIONS

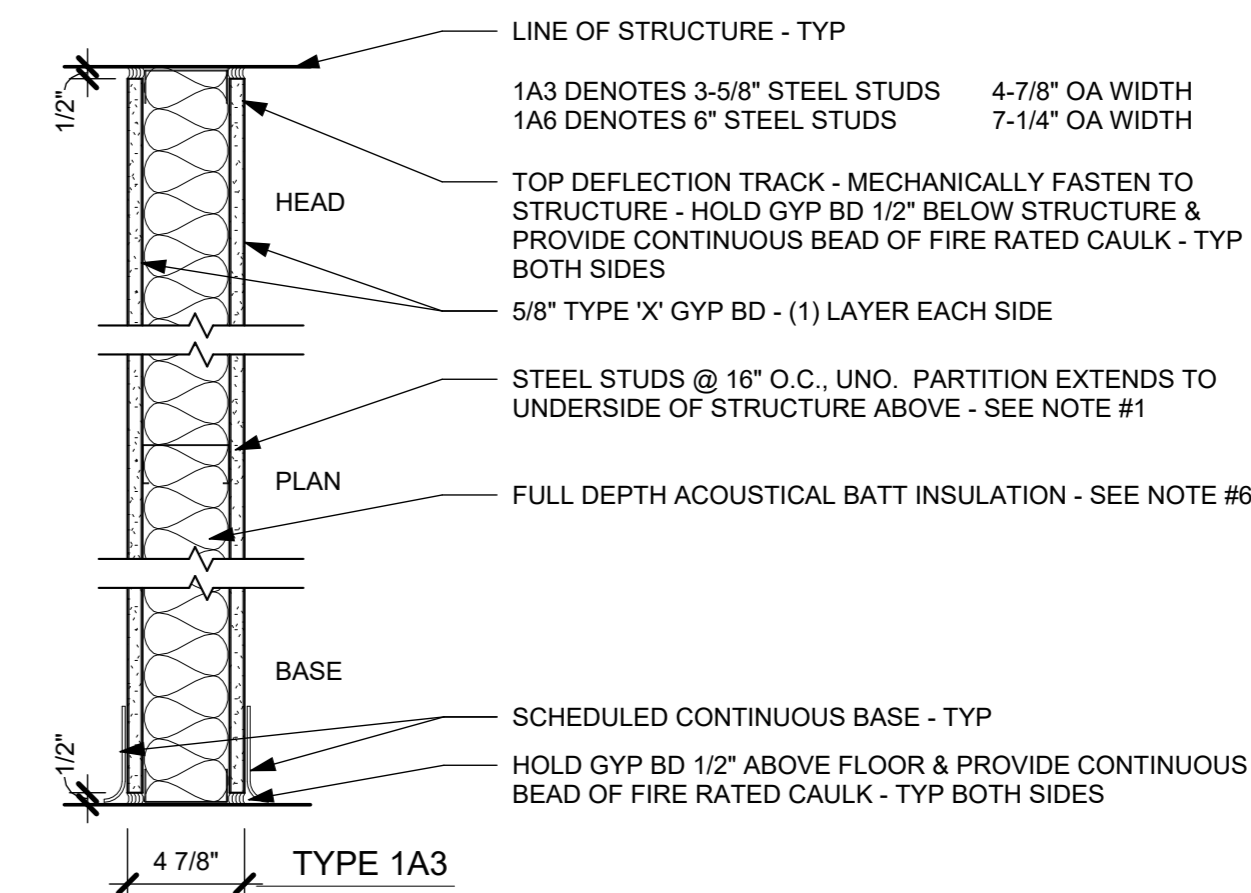
2hr RATED PARTITIONS

GENERAL PARTITION NOTES / DETAILS

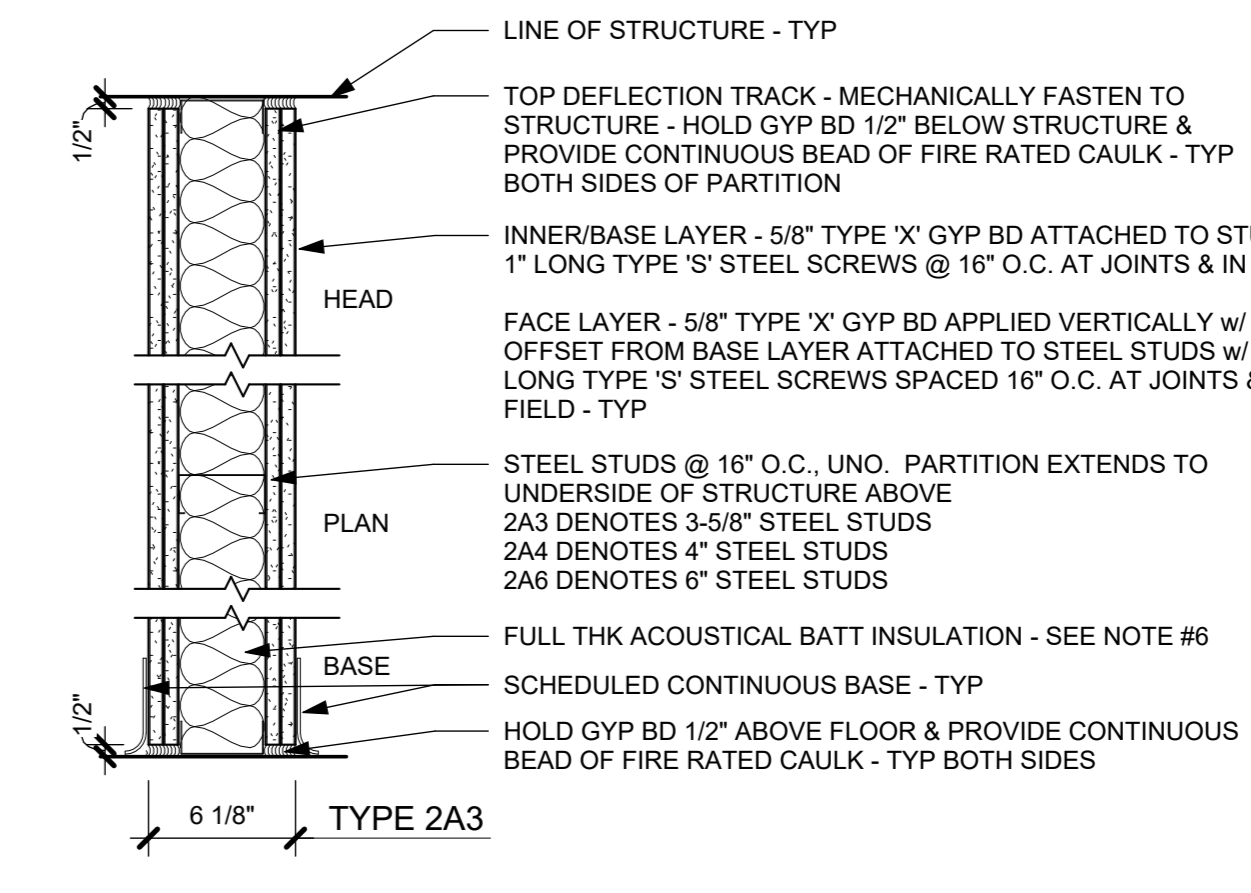
METAL STUD PARTITIONS



A- METAL STUD PARTITION
DESIGN STC = 52
FIELD STC = 49 (MIN)

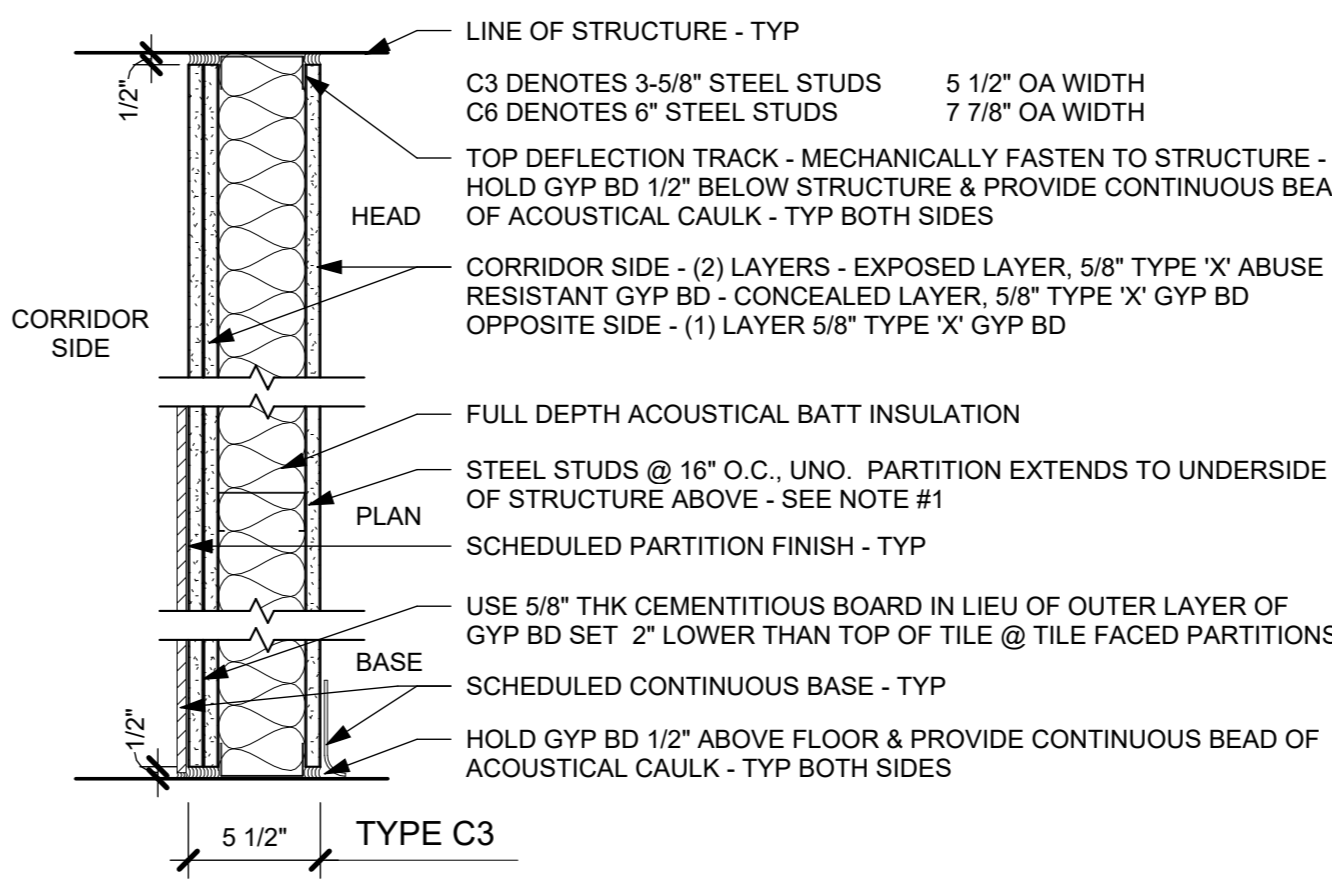


1A- 1 hr FIRE RESISTIVE - UL #U419
NOTE: ASSEMBLE PARTITION PER UNDERWRITERS LABORATORY FIRE RESISTANCE RATING REQUIREMENTS.

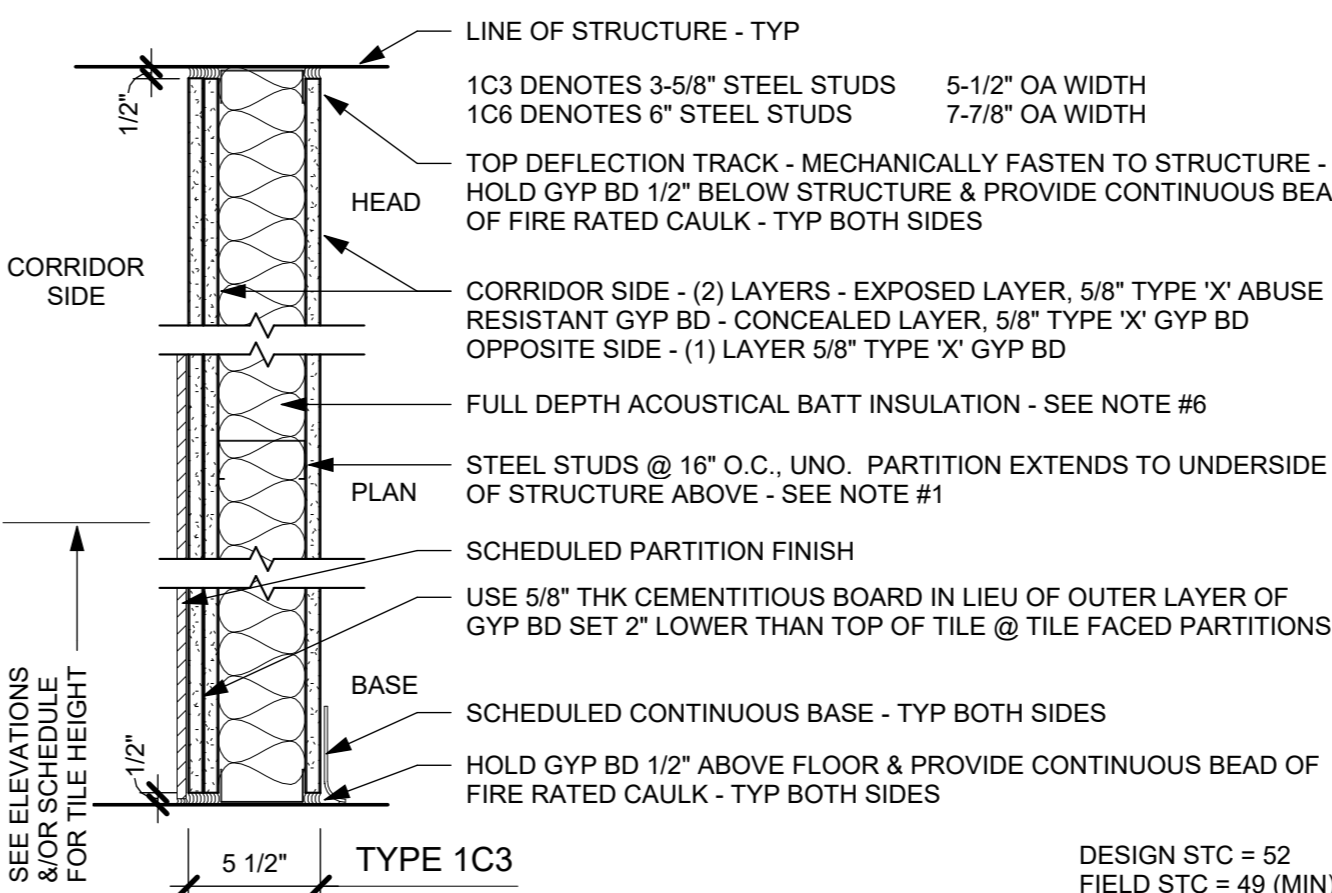


2A- 2 hr FIRE RESISTIVE - UL #U419
DESIGN STC = 59
FIELD STC = 55 (MIN)
NOTE: ASSEMBLE PARTITION PER UNDERWRITERS LABORATORY FIRE RESISTANCE RATING REQUIREMENTS.

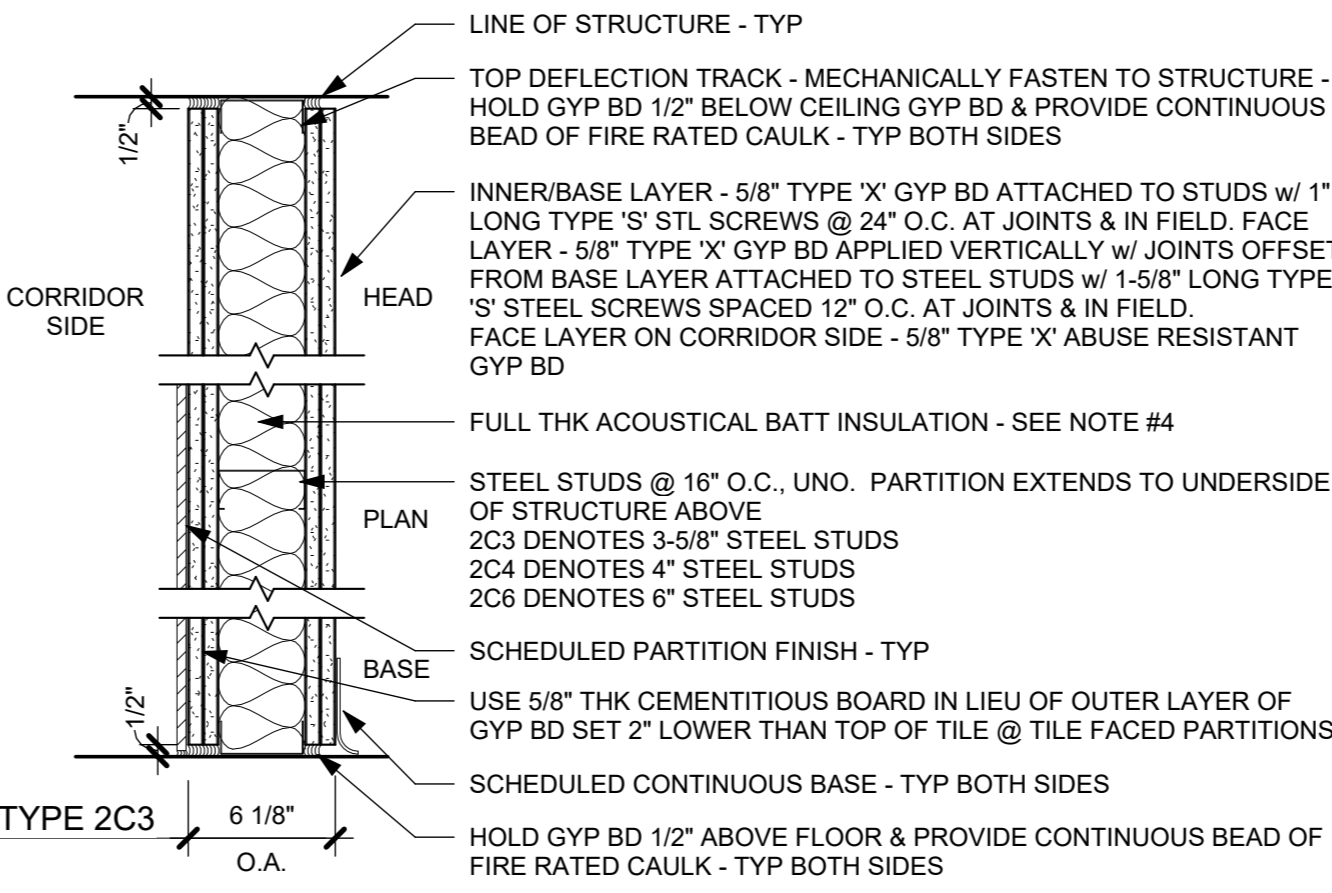
METAL STUD CORRIDOR PARTITIONS



C- CORRIDOR PARTITION
DESIGN STC = 52
FIELD STC = 49 (MIN)

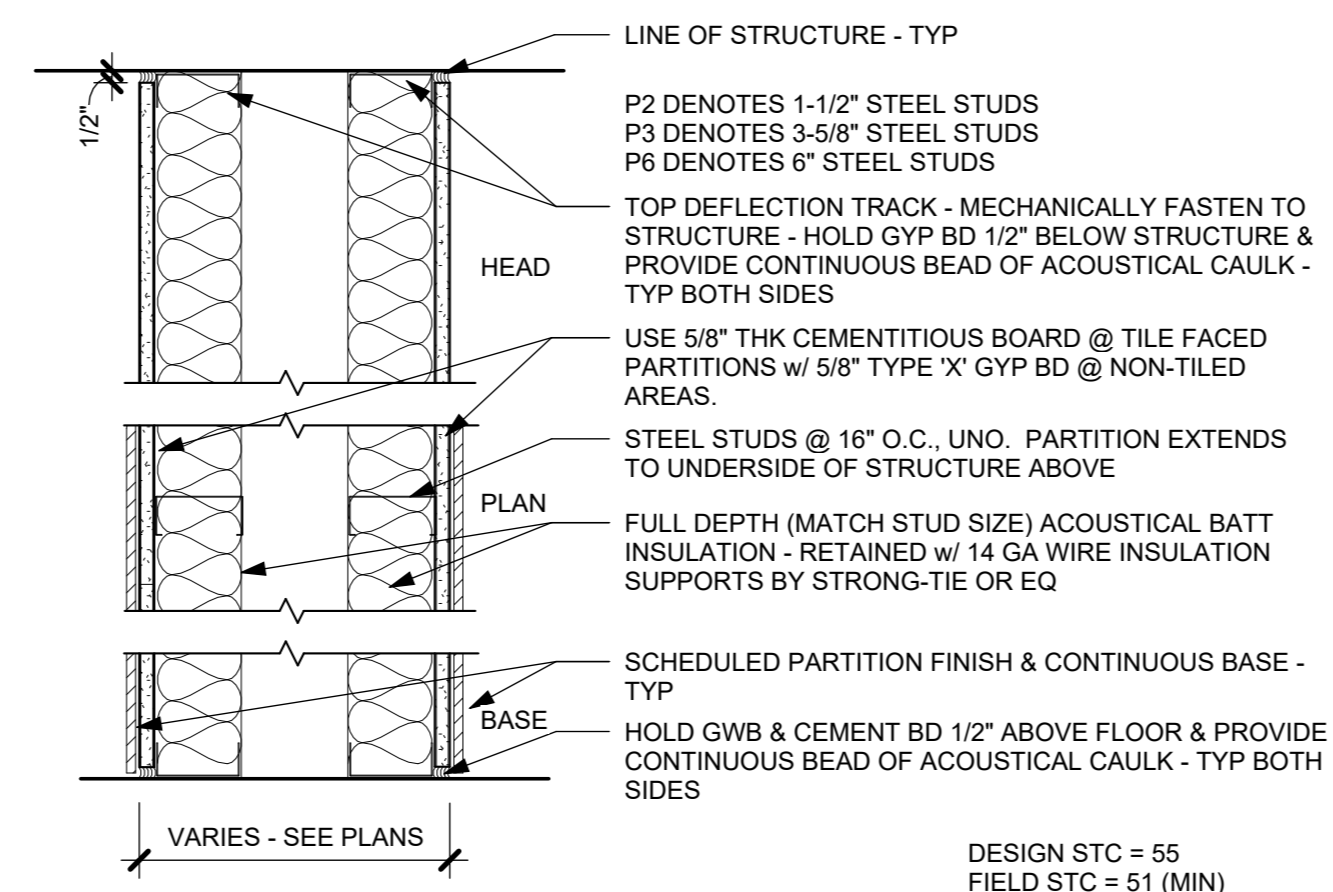


1C- 1 hr FIRE RESISTIVE CORRIDOR PARTITION UL #U465
NOTE: ASSEMBLE PARTITION PER UNDERWRITERS LABORATORY FIRE RESISTANCE RATING REQUIREMENTS.

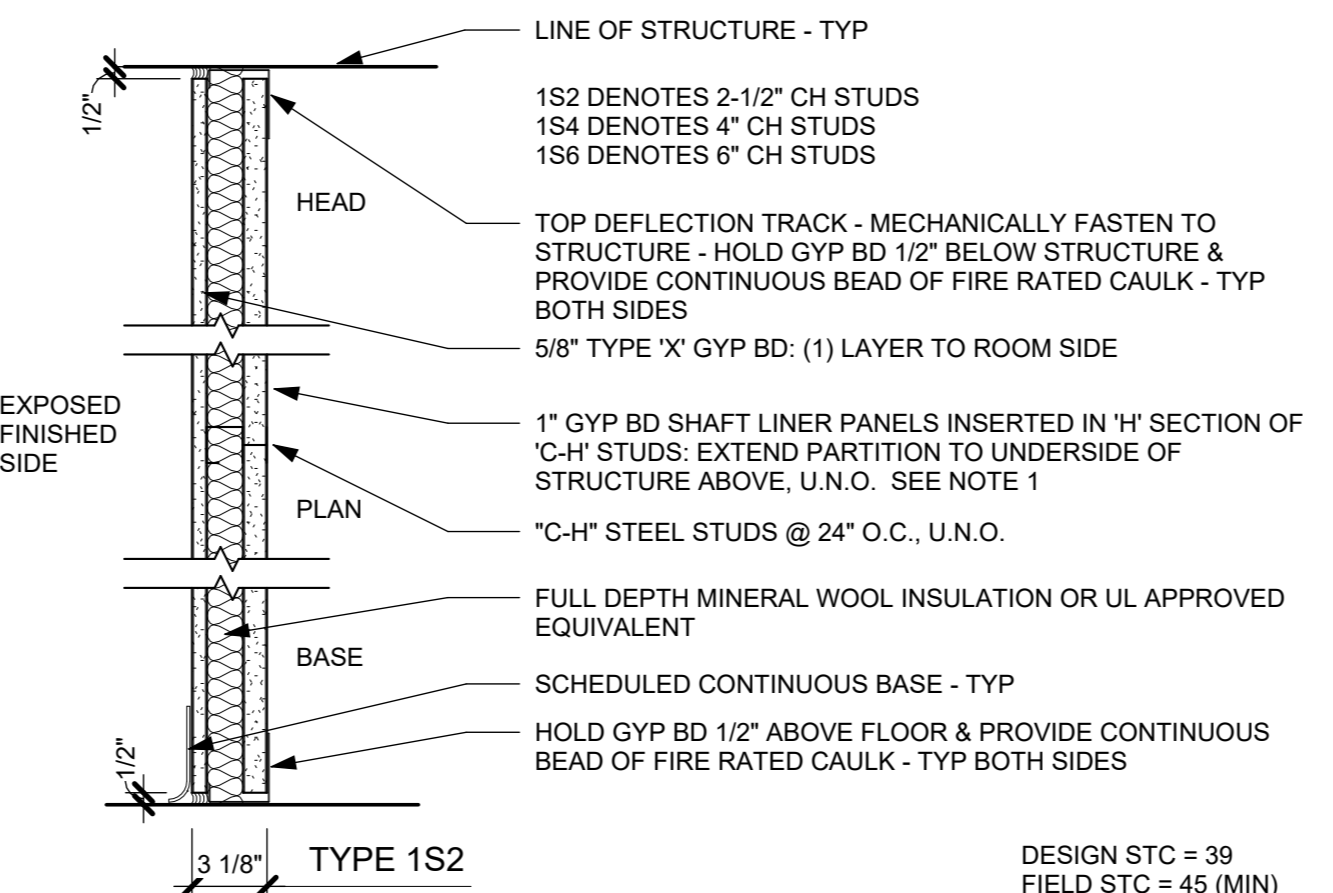


2C- 2 hr FIRE RESISTIVE CORRIDOR PTN UL #U443
DESIGN STC = 59
FIELD STC = 55 (MIN)
NOTE: ASSEMBLE PARTITION PER UNDERWRITERS LABORATORY FIRE RESISTANCE RATING REQUIREMENTS.

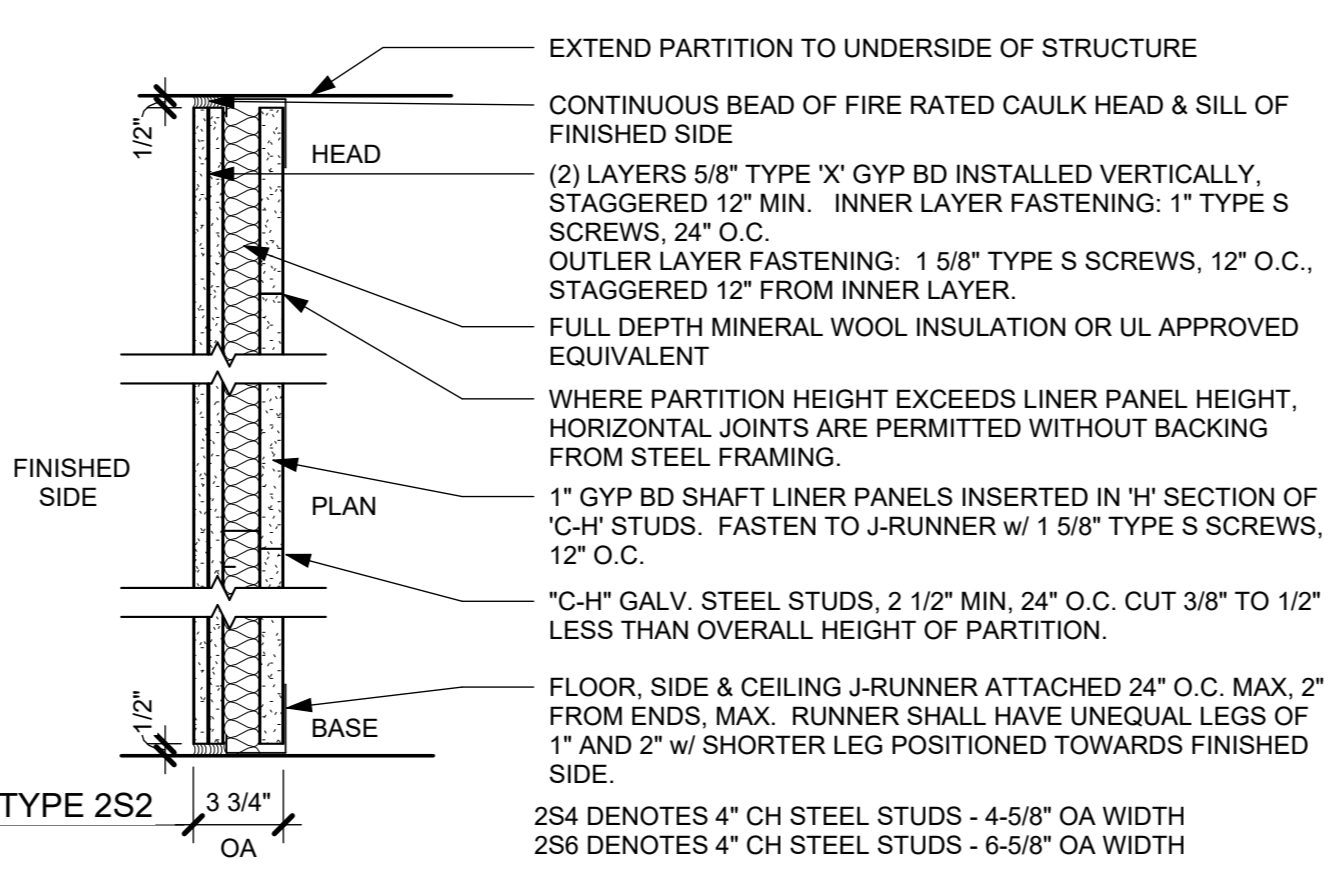
SHAFT / CHASE PARTITIONS



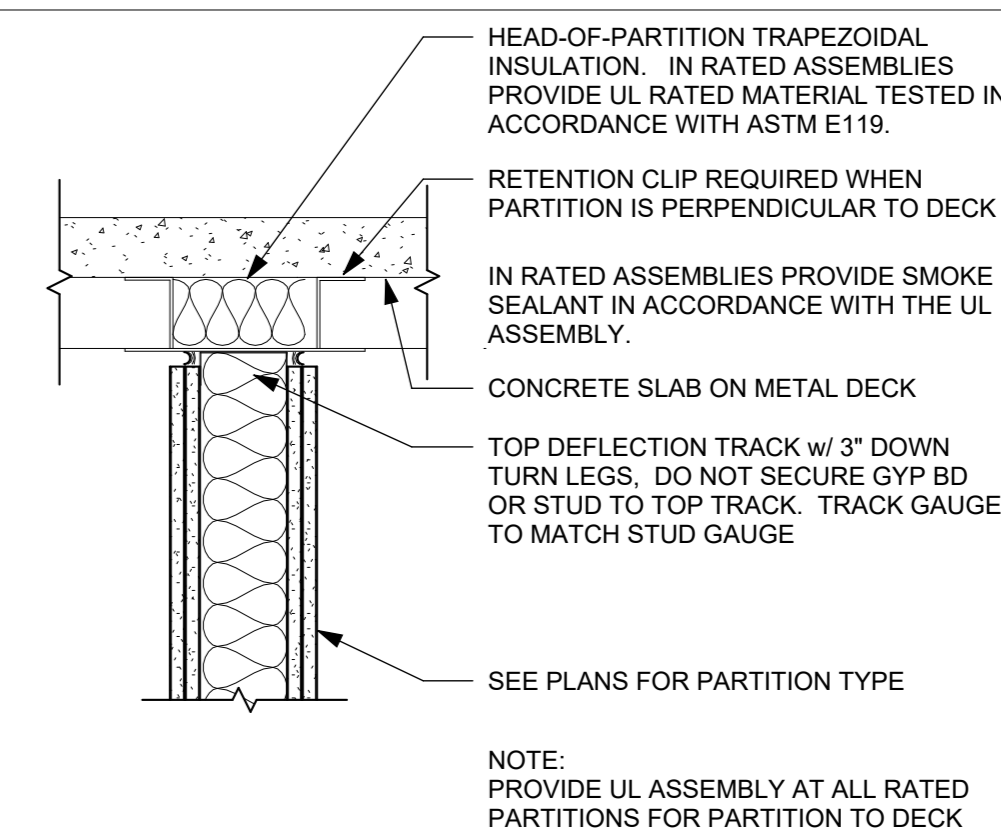
P- CAVITY PARTITION - PLUMBING, ETC.
DESIGN STC = 55
FIELD STC = 51 (MIN)



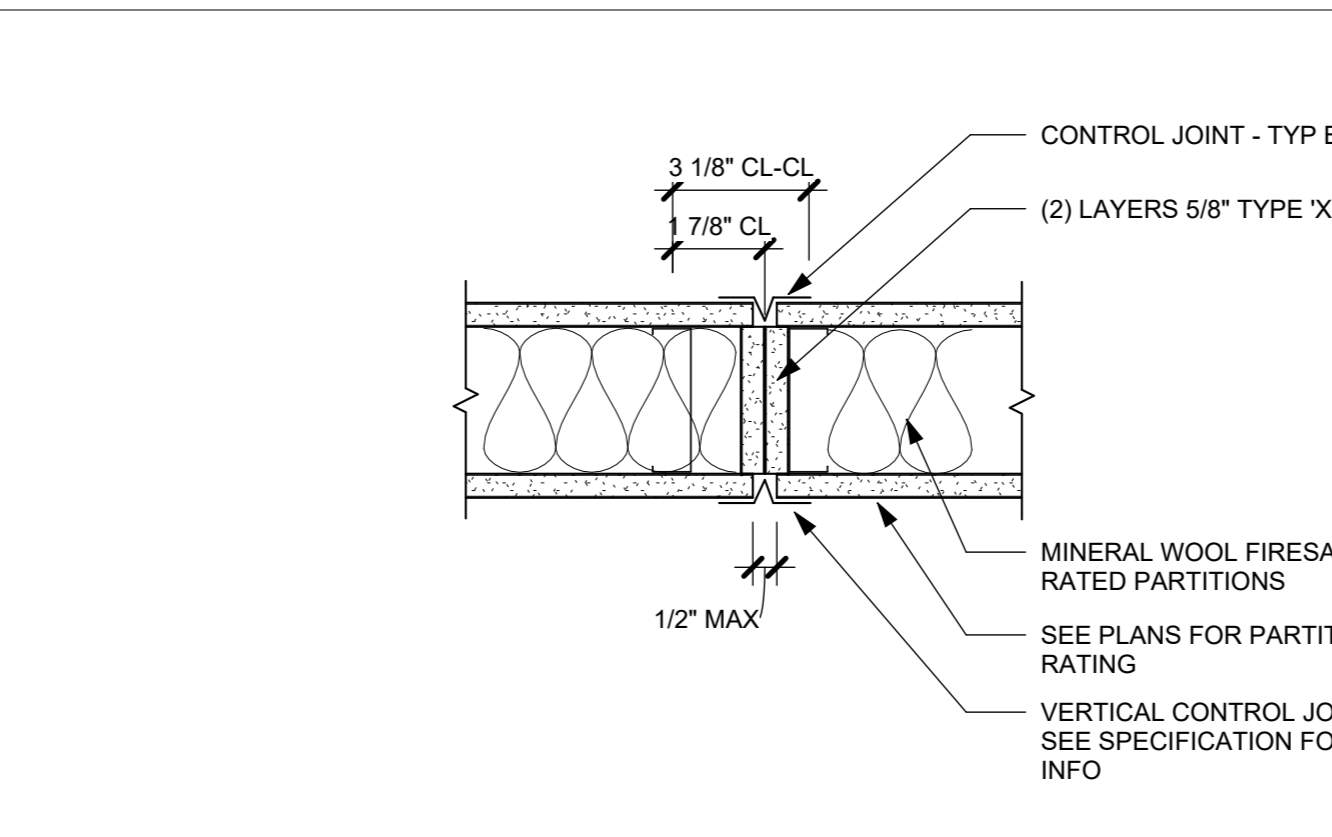
1S- 1 hr SHAFT PARTITION - UL #U415 - SYSTEM A
NOTE: ASSEMBLE PARTITION PER UNDERWRITERS LABORATORY FIRE RESISTANCE RATING REQUIREMENTS.



2S- 2 hr SHAFT PARTITION - UL #U415 - SYSTEM B
DESIGN STC = 45
FIELD STC = 38 (MIN)

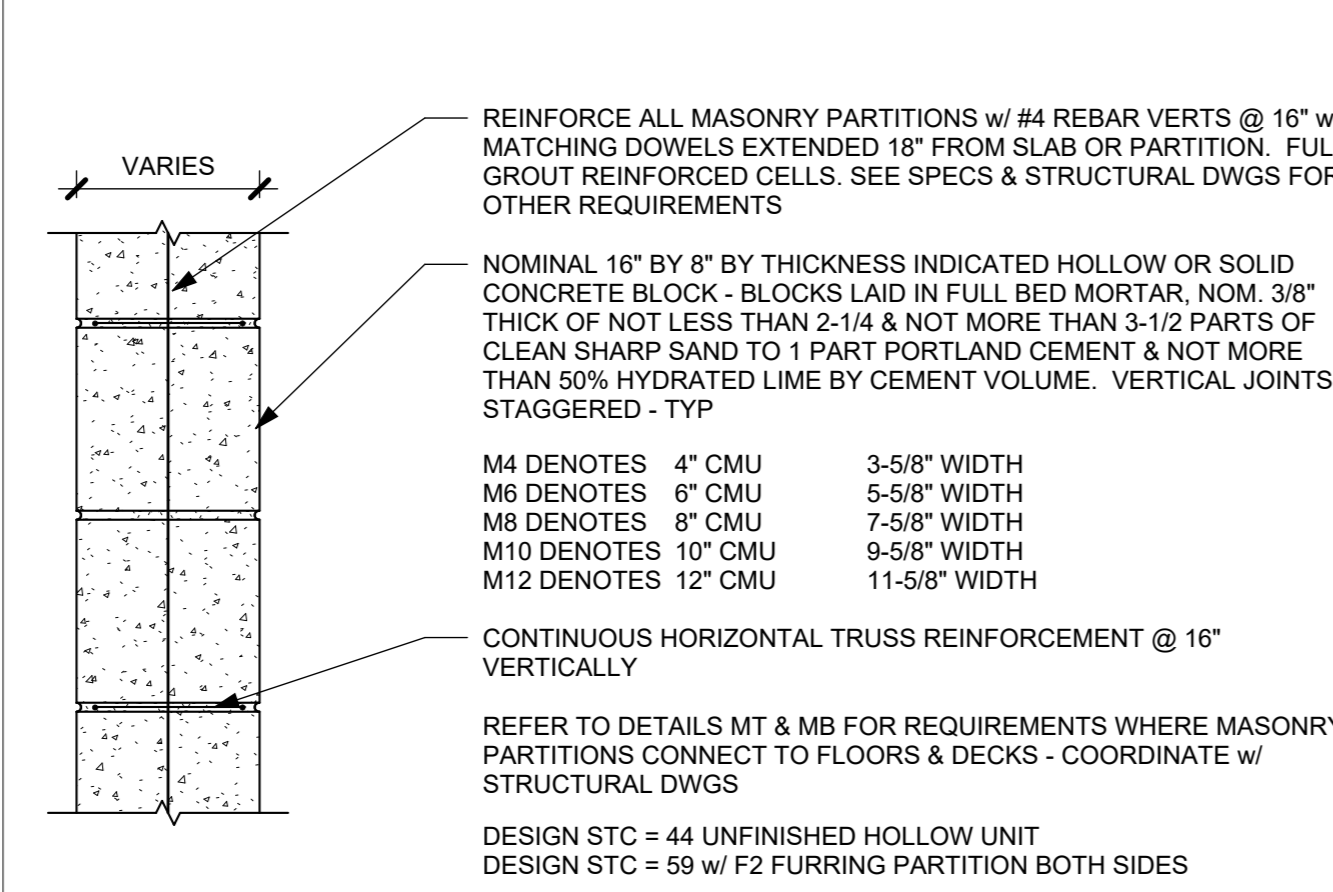


H1 TYPICAL PARTITION HEAD DETAIL @ METAL DECK PERPENDICULAR TO DECK

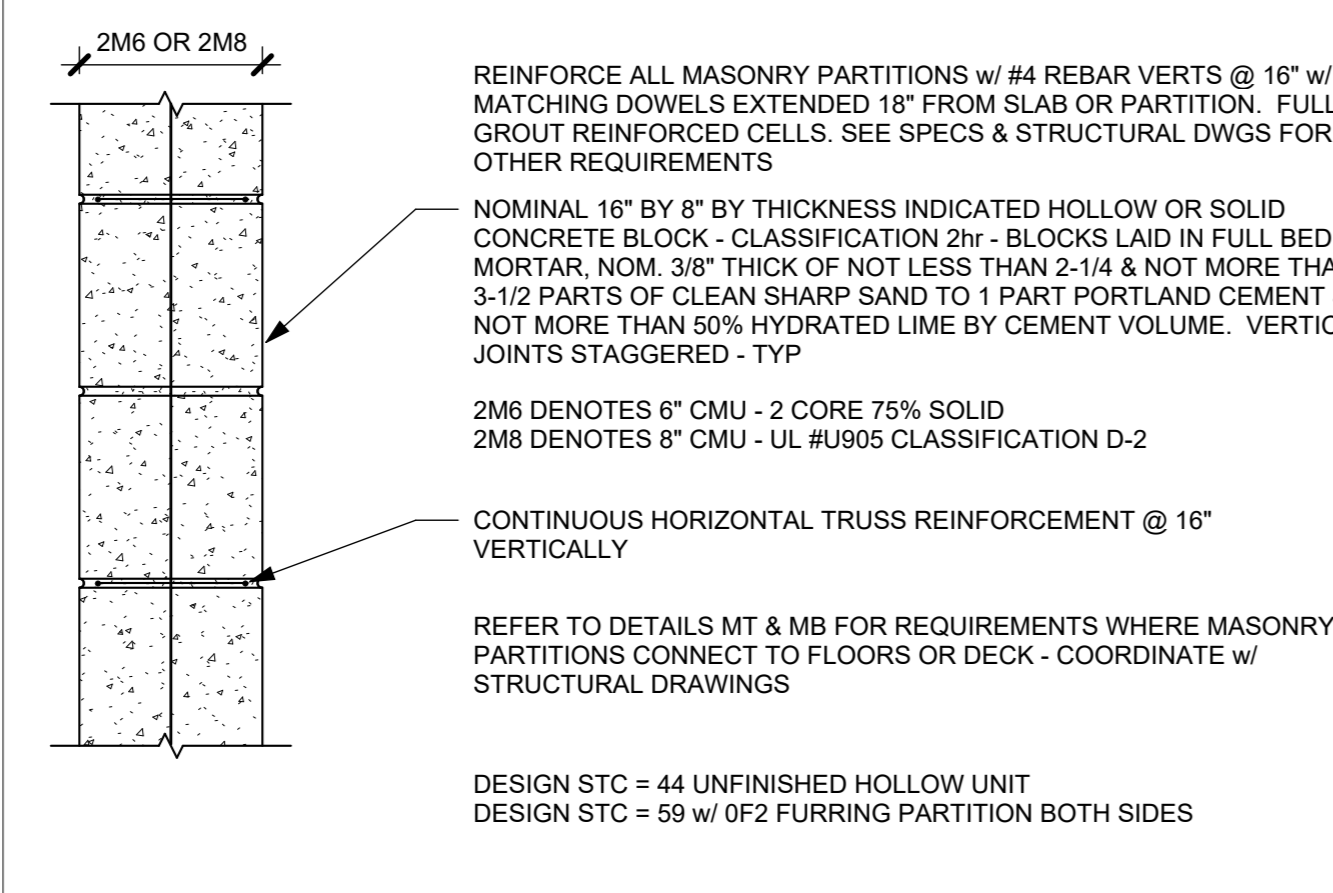


A TYPICAL GYP BD CONTROL JOINT

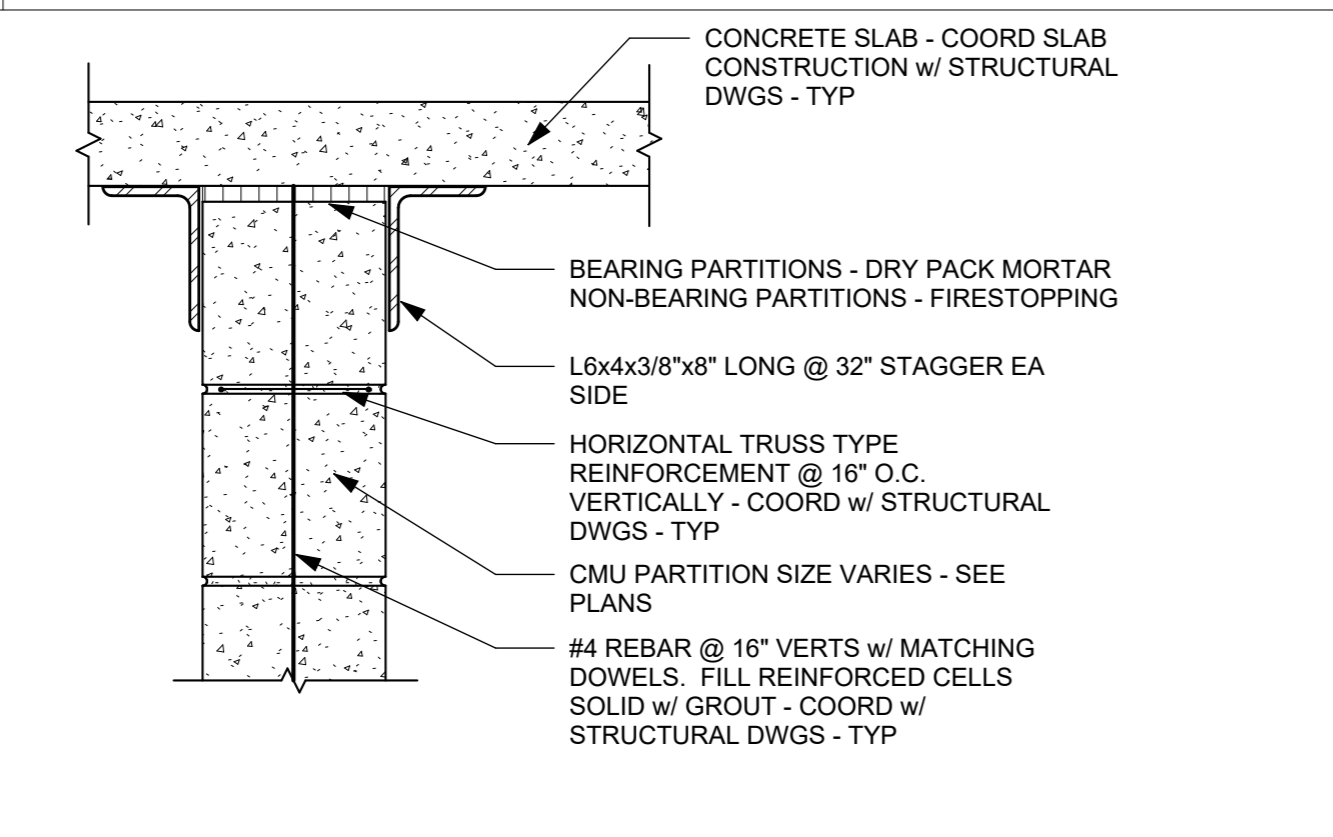
MASONRY PARTITIONS



M- CONCRETE MASONRY UNIT (CMU) PARTITION
DESIGN STC = 44 UNFINISHED HOLLOW UNIT
DESIGN STC = 59 w/ F2 FURRING PARTITION BOTH SIDES

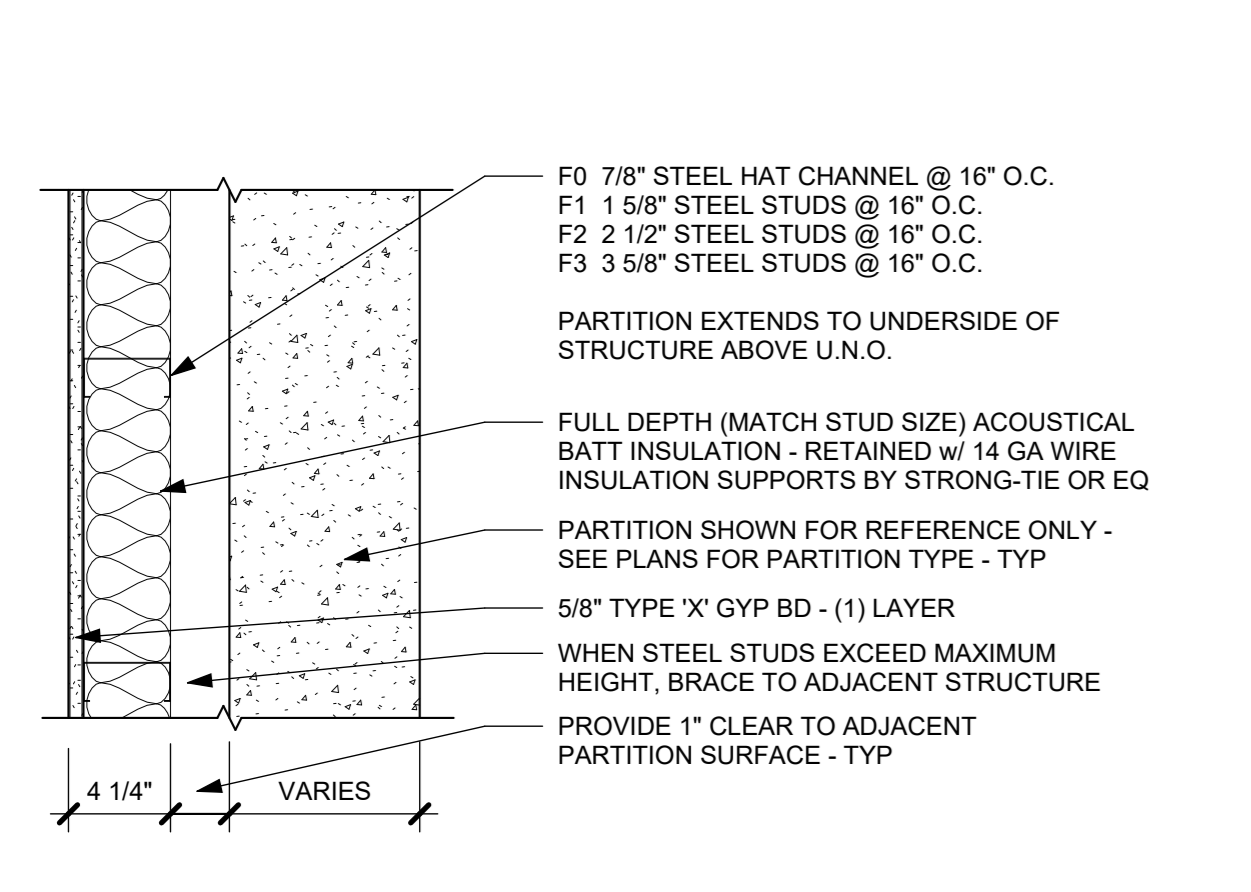


2M- 2 hr FIRE RESISTIVE CMU PARTITION - UL #U906
DESIGN STC = 44 UNFINISHED HOLLOW UNIT
DESIGN STC = 59 w/ F2 FURRING PARTITION BOTH SIDES

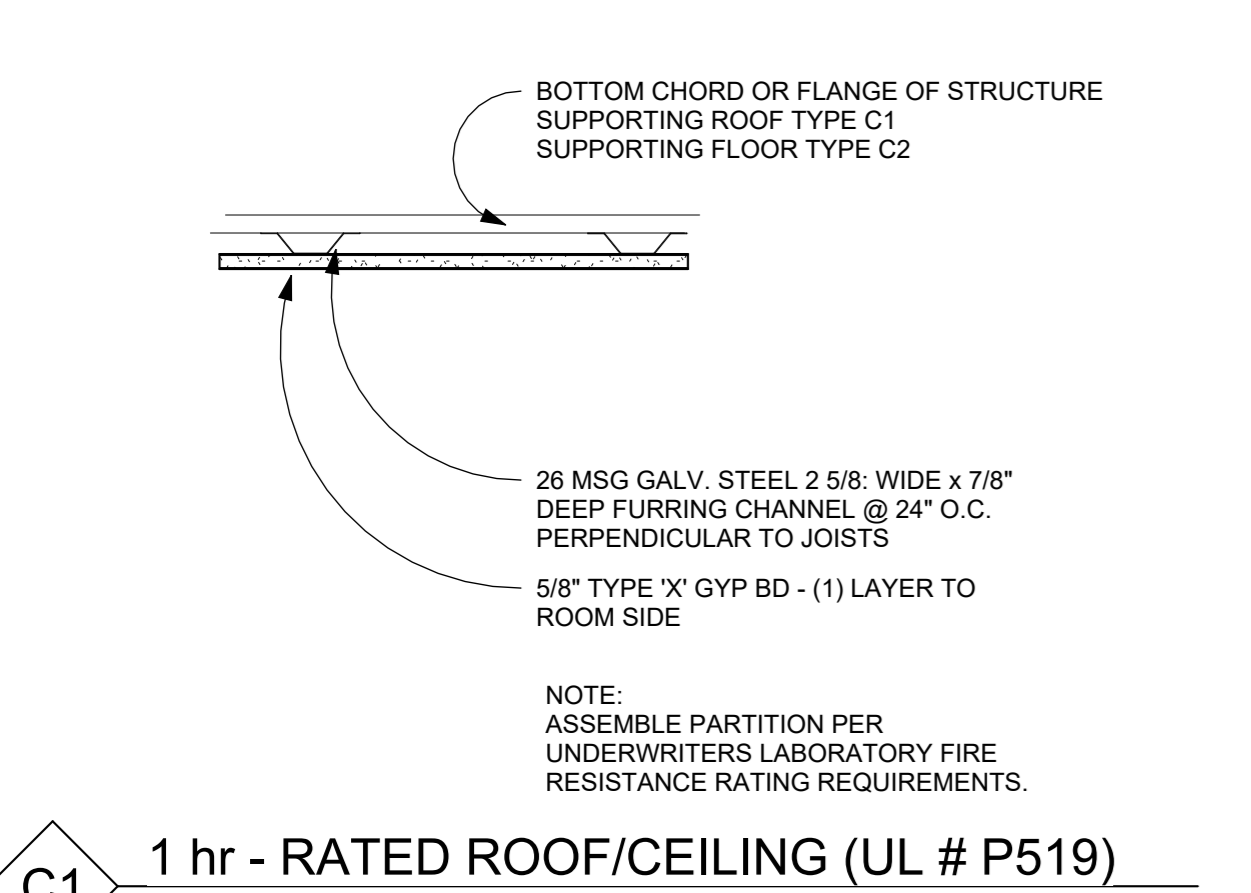


MT TYPICAL CONCRETE MASONRY UNIT PARTITION / SLAB ATTACHMENT
COORDINATE WITH STRUCTURAL DRAWINGS - TYP

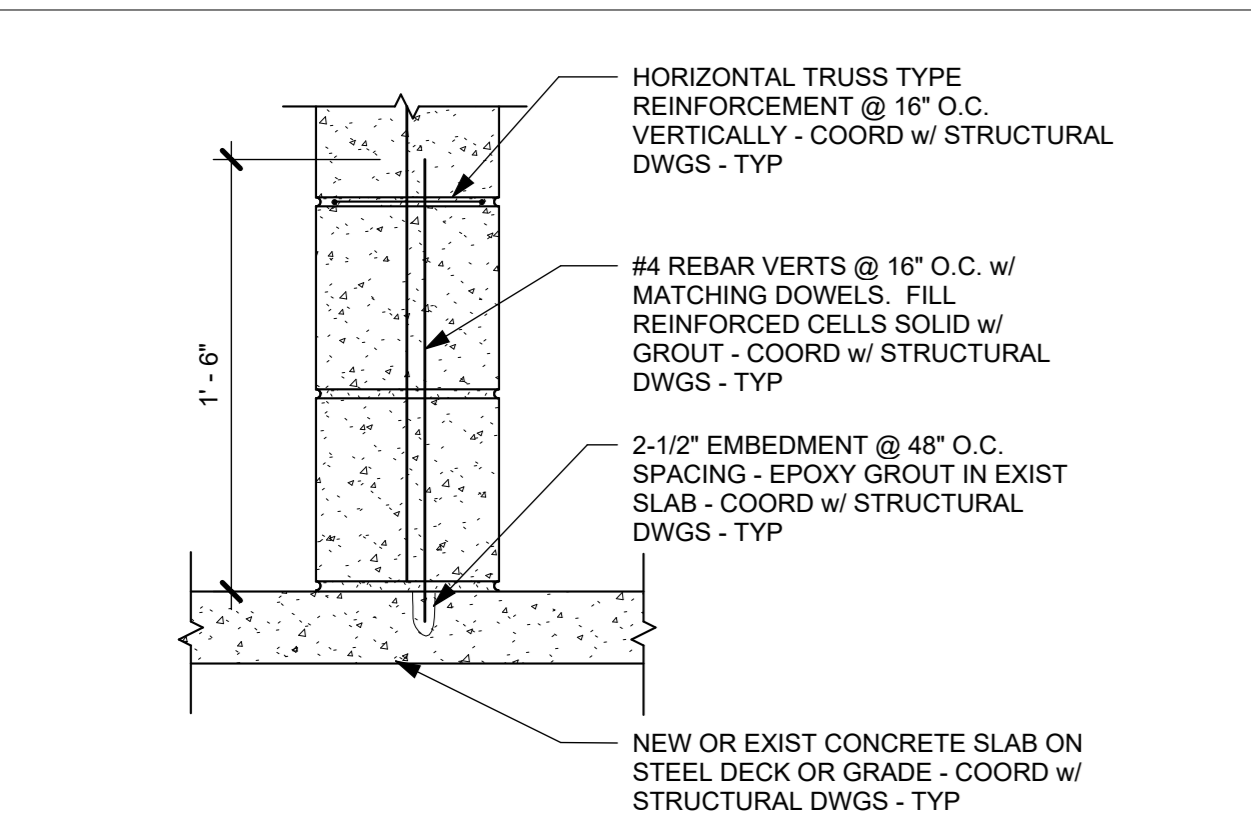
SPECIALTY PARTITIONS



F- FURRING PARTITION



C1 1 hr - RATED ROOF/CEILING (UL # P519)
C2 1 hr - RATED FLOOR/CEILING (UL # G515)



MB TYPICAL CONCRETE MASONRY UNIT PARTITION & SLAB ATTACHMENT
COORDINATE WITH STRUCTURAL DRAWINGS - TYP

PARTITION GENERAL NOTES

1. ALL WALL ASSEMBLIES SHALL BE FULL HEIGHT FROM FLOOR TO UNDERSIDE OF FLOOR SLAB, DECK OR ROOF ABOVE, U.N.O.
2. SEE SPECIFICATIONS FOR FIRESTOPPING REQUIREMENTS.
3. PROVIDE DEFLECTION TRACK AT TOP OF ALL PARTITIONS THAT EXTEND TO STRUCTURE ABOVE. PROVIDE FIRE-RATED DEFLECTION TRACK AT TOP OF ALL FIRE-RATED PARTITIONS.
4. WHERE FURRED PARTITIONS EXCEED MAXIMUM HEIGHT, BRACE TO ADJACENT STRUCTURE.
5. IN MASONRY WALLS, ALL EXPOSED EDGES AND OUTSIDE CORNERS SHALL BE BULLNOSE
6. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR WALL TILE LOCATIONS.
7. ALL GYPSUM WALL BOARD PRODUCTS SHALL BE TYPE X, ABUSE AND MOLD-RESISTANT, U.N.O.
8. PROVIDE STEEL TUBE, ANGLE OR HEAVY GAUGE STUD REINFORCING INSIDE PARTIAL HEIGHT PARTITIONS, AS REQUIRED TO MEET PARTITION DEFLECTION CRITERIA.
9. FOR ACOUSTICAL BATT INSULATION IN PARTITIONS: SEAL AIRTIGHT w/ NON-HARDENING ACOUSTICAL SEALANT AT TOP, BOTTOM & SIDES. PARTITION MOUNTED ELECTRICAL BOXES SHALL BE OFFSET MIN 24" (NOT BACK-TO-BACK) w/ BOX PERIMETERS SEALED AIR-TIGHT w/ NON-HARDENING ACOUSTICAL SEALANT ALL SIDES. PIPE/DUCT PENETRATIONS SHALL BE SLEEVED, PACKED w/ 10lb DENSITY CLOSED CELL FOAM, & SEALED TO PARTITION w/ NON-HARDENING ACOUSTICAL SEALANT. FIRE-RATED PARTITIONS TO RECEIVE FIRE-RATED PUTTY PADS.

10. COORDINATE REQUIRED STUD GAUGE w/ STRUCTURAL DRAWINGS & SPECIFICATIONS
11. REFER TO SPECIFICATIONS & MANUFACTURER RECOMMENDATIONS FOR ENVIRONMENTAL CONDITIONS REQUIRED FOR STORAGE & INSTALLATION OF GYPSUM PARTITION BOARD PRODUCTS. PRODUCTS IMPROPERLY STORED OR INSTALLED WITHOUT INDOOR ENVIRONMENTAL CONTROL, MAY BE REJECTED.
12. USE (1) LAYER OF CEMENT BOARD IN LIEU OF OUTER LAYER OF GYP BD AT WALL TILE LOCATIONS AS SHOWN AND SCHEDULED. CEMENT BOARD SHALL BE 1" FROM HEIGHT/EDGE OF WALL TILE AS NOT TO BE EXPOSED.
13. ASSEMBLE ALL RATED PARTITION TYPES PER UNDERWRITERS LABORATORY FIRE RESISTANCE RATING REQUIREMENTS.
14. EXISTING PARTITIONS SCHEDULED TO RECEIVE NEW FINISHES SHALL BE FLOATED AS REQUIRED TO PROVIDE SMOOTH SUBSTRATE (LEVEL 4 MIN UNO). PREPARE FOR INSTALLATION OF NEW FINISHES PER MANUFACTURERS RECOMMENDATIONS.
15. WHERE INFILL OF EXISTING MASONRY PARTITION IS REQUIRED, MASONRY SHALL MATCH THE EXISTING SIZE. JOINTS SHALL BE ALIGNED & THE WALL SHALL HAVE A CLEAN APPEARANCE. IN AREAS VISIBLE TO THE PUBLIC, CONTRACTOR SHALL SAW CUT & TOOTH-IN MASONRY TO MATCH EXISTING.
16. ALL WALL TYPES SHOWN MAY NOT BE IN THE PROJECT. CONFIRM WITH FLOOR PLANS

PARTITION TAG NAMING MATRIX

| 1st DESIGNATOR = FIRE RATING | FIRE RATING MATERIAL / FUNCTION CORE THICKNESS / WIDTH |
|---|--|
| 0 = NON-RATED PARTITION TYPE | |
| 1 = 1 HR FIRE RATED PARTITION TYPE | |
| 2 = 2 HR FIRE RATED PARTITION TYPE | |
| 2nd DESIGNATOR = PARTITION MATERIAL / FUNCTION | PARTIAL HEIGHT PARTITION (INCHES) |
| A = GYP BOARD - BOTH SIDES | |
| B = CEMENTITIOUS BOARD - 1 OR BOTH SIDES | |
| C = ABUSE RESISTANT BOARD - 1 OR BOTH SIDES | |
| F = FURRING PARTITION | |
| M = MASONRY PARTITION - CMU | |
| P = PLUMBING CHASE | |
| S = SHAFT PARTITION | |
| 3rd DESIGNATOR = PARTITION CORE THICKNESS / WIDTH | |
| 0 = 7/8\"/> | |
| 1 = 1-5/8\"/> | |
| 2 = 2-1/2\"/> | |
| 3 = 3-5/8\"/> | |
| 4 = 4\"/> | |
| 6 = 6\"/> | |
| 8 = 8\"/> | |
| 10 = 10\"/> | |
| 12 = 12\"/> | |

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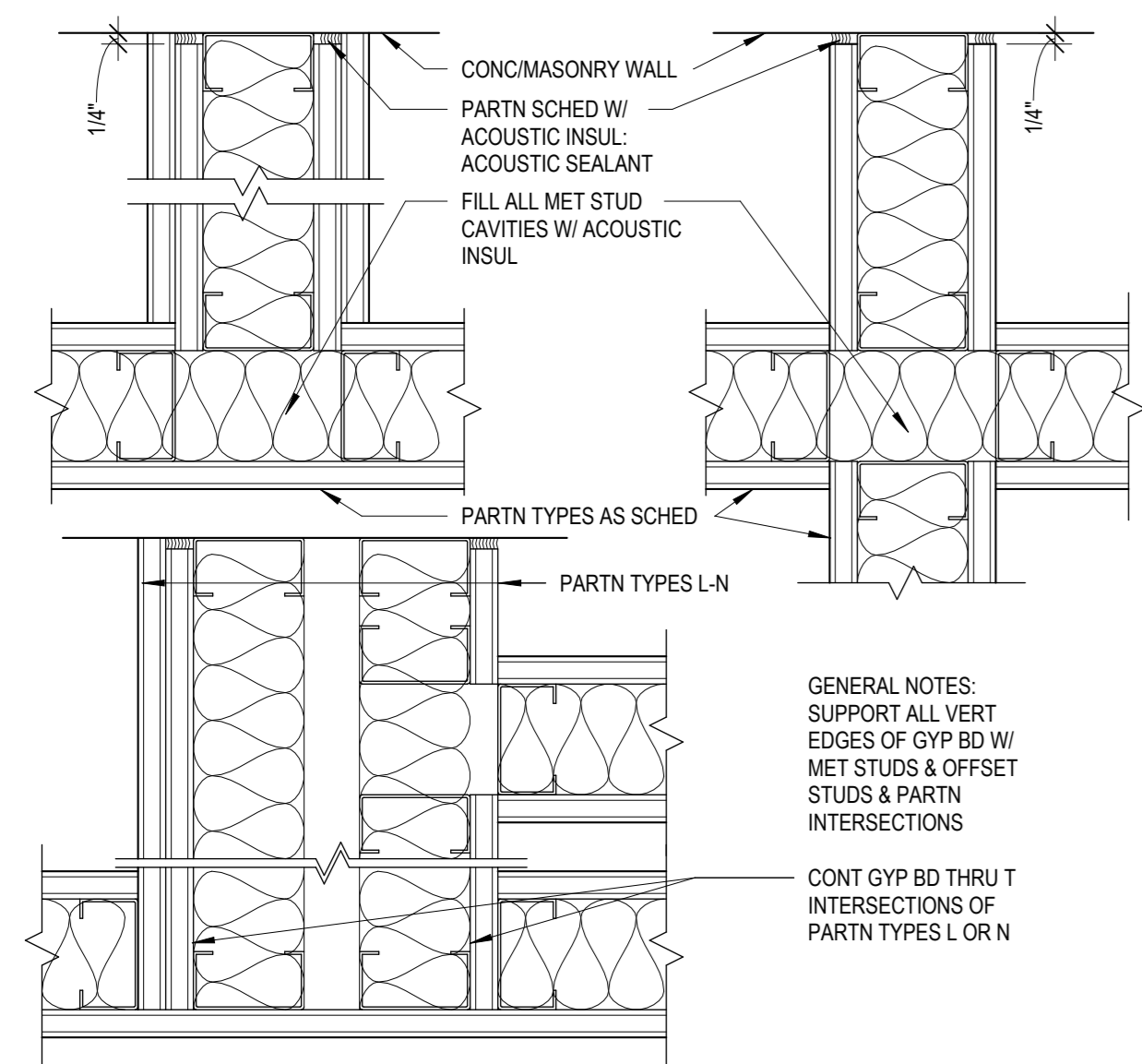
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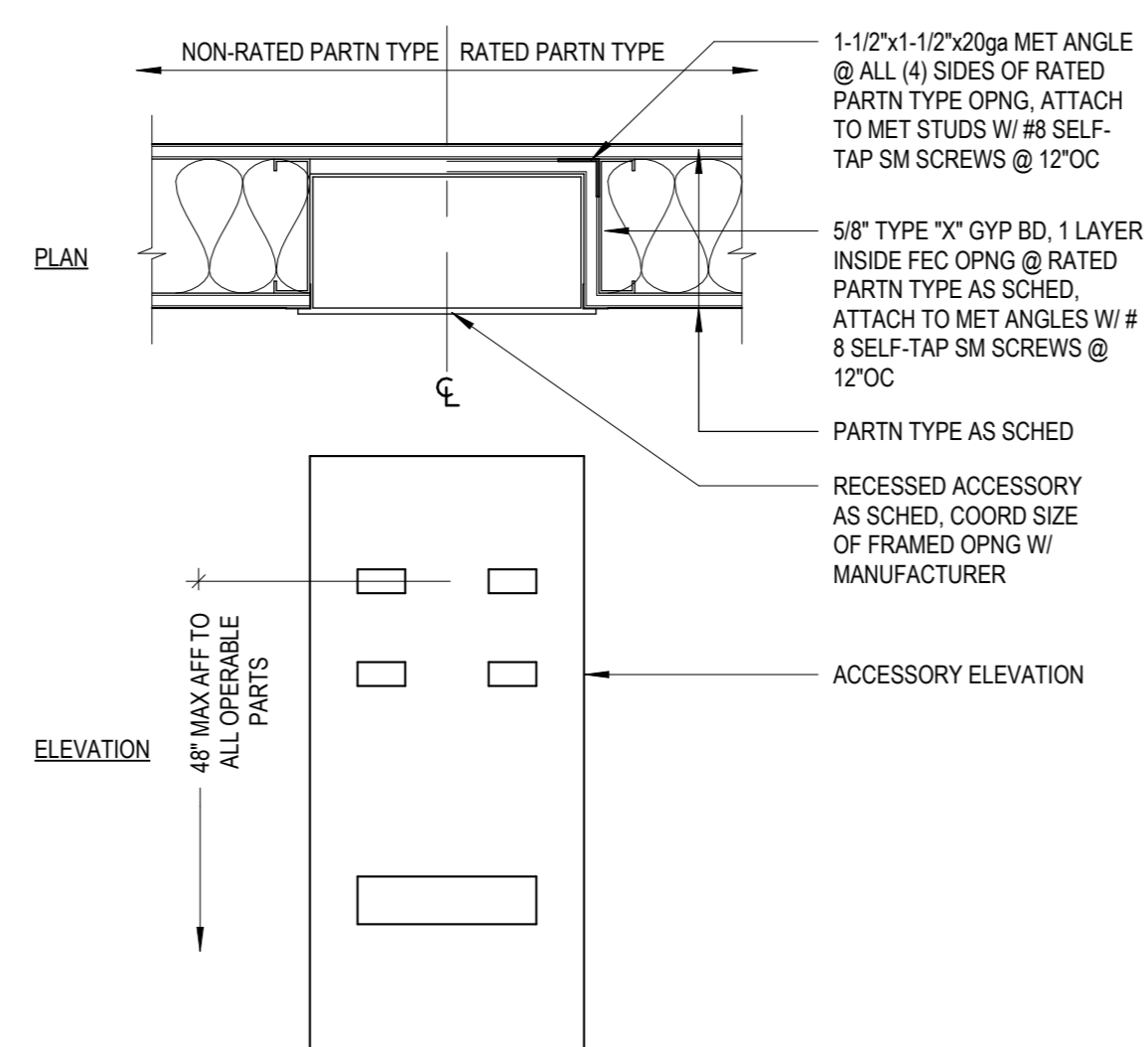
Professional Seal

WALL TYPES & GENERAL NOTES

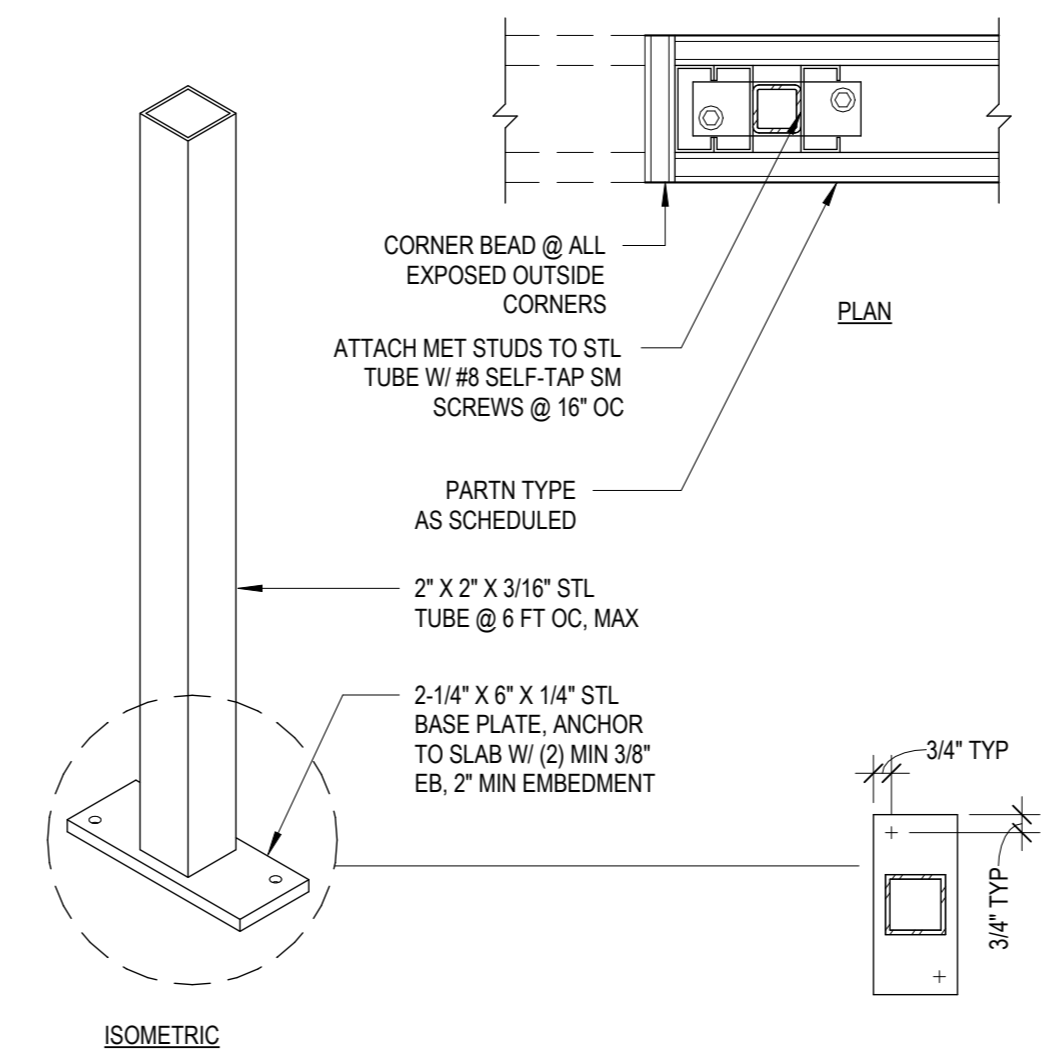
| Job No. | Date |
|--------------|-----------------|
| 2020-1005 | 03/31/2020 |
| Scale | Drawn / Checked |
| AS NOTED | - - - |
| Sheet Number | |
| A901 | |



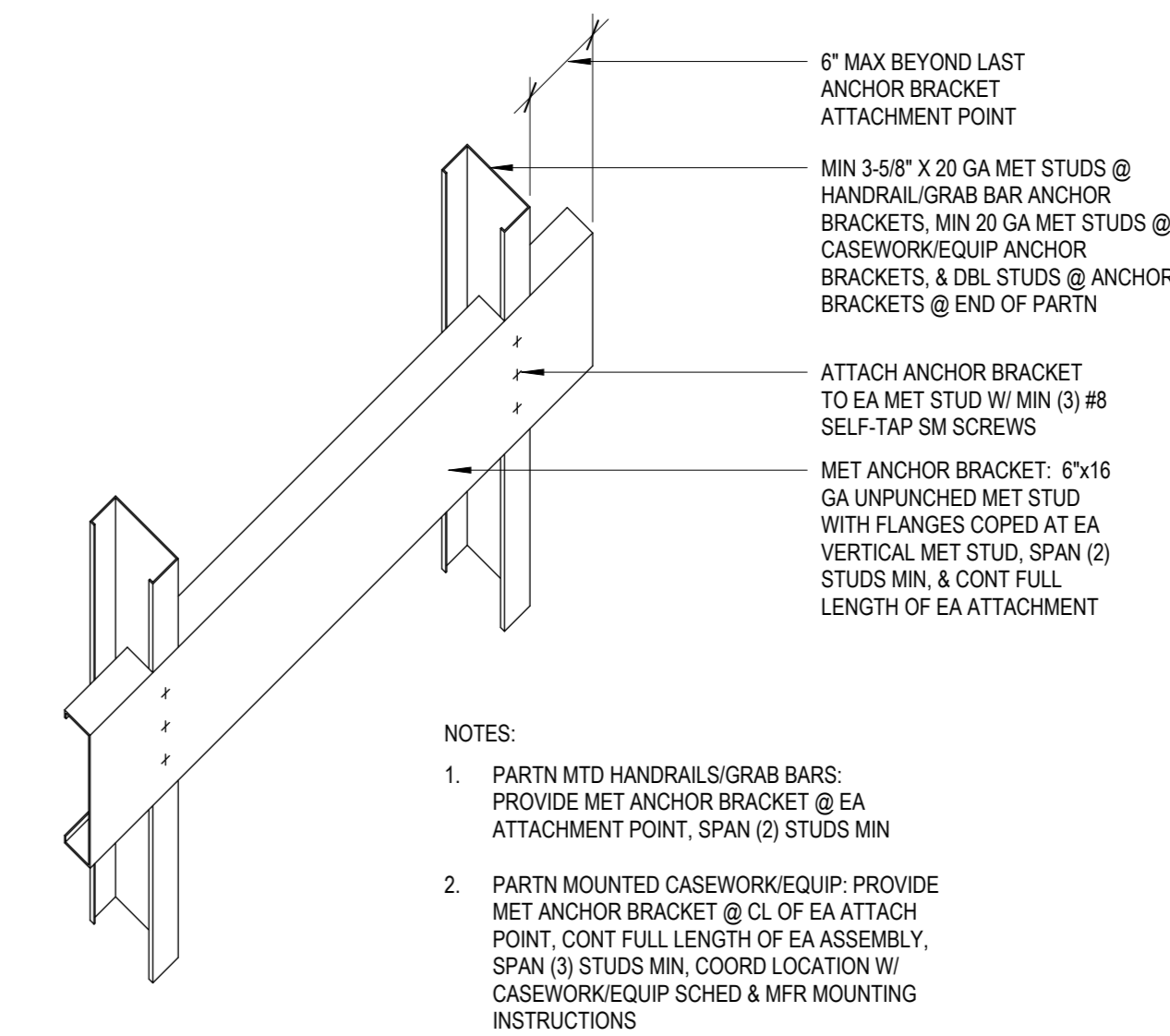
4 TYPICAL PARTITION INTERSECTIONS
3" = 1'-0"



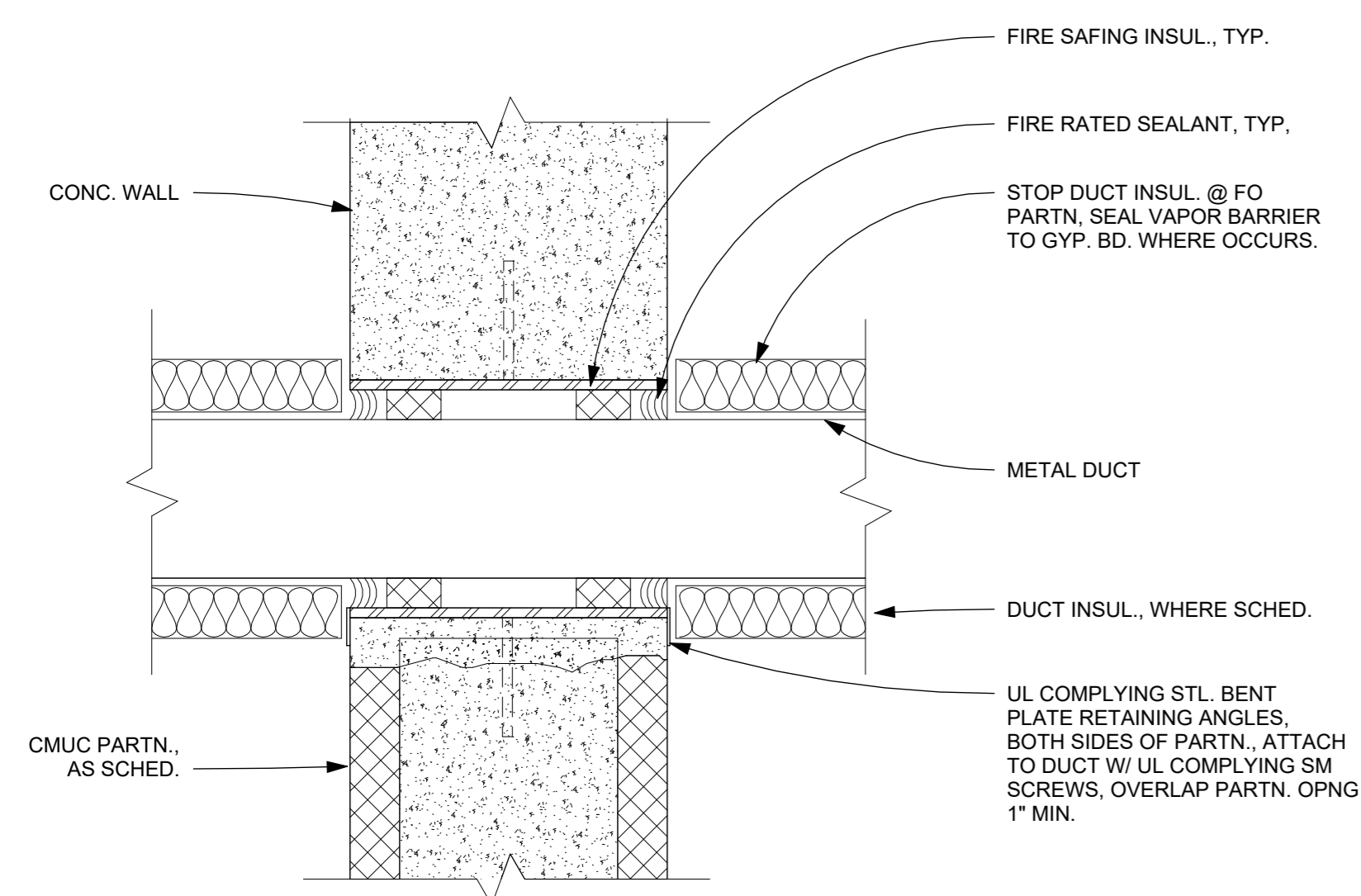
3 RECESSED ACCESSORY CABINET
1 1/2" = 1'-0"



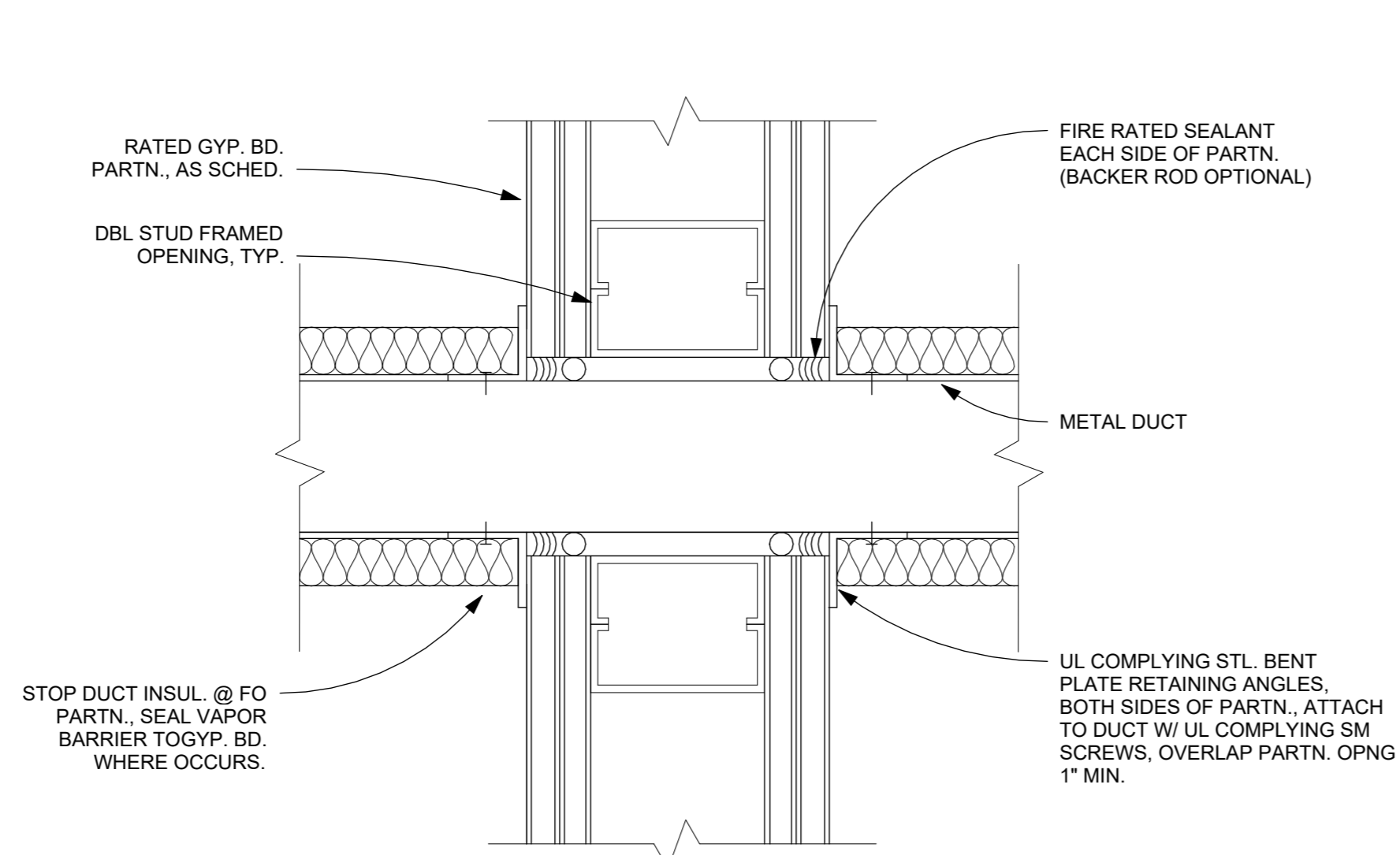
2 PARTIAL HT PARTITION SUPPORT POST
1 1/2" = 1'-0"



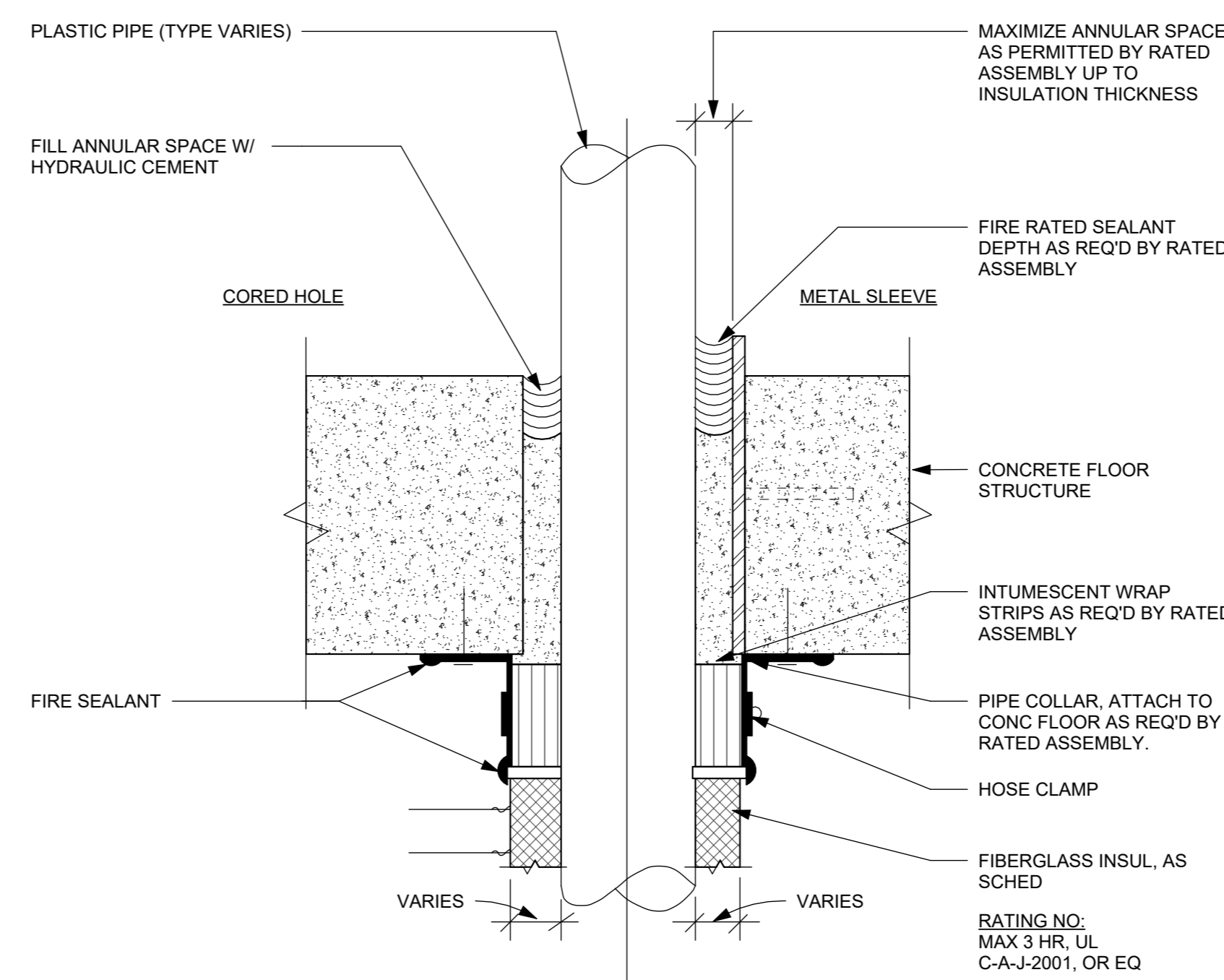
1 TYP MET STUD ANCHOR BRACKET
1 1/2" = 1'-0"



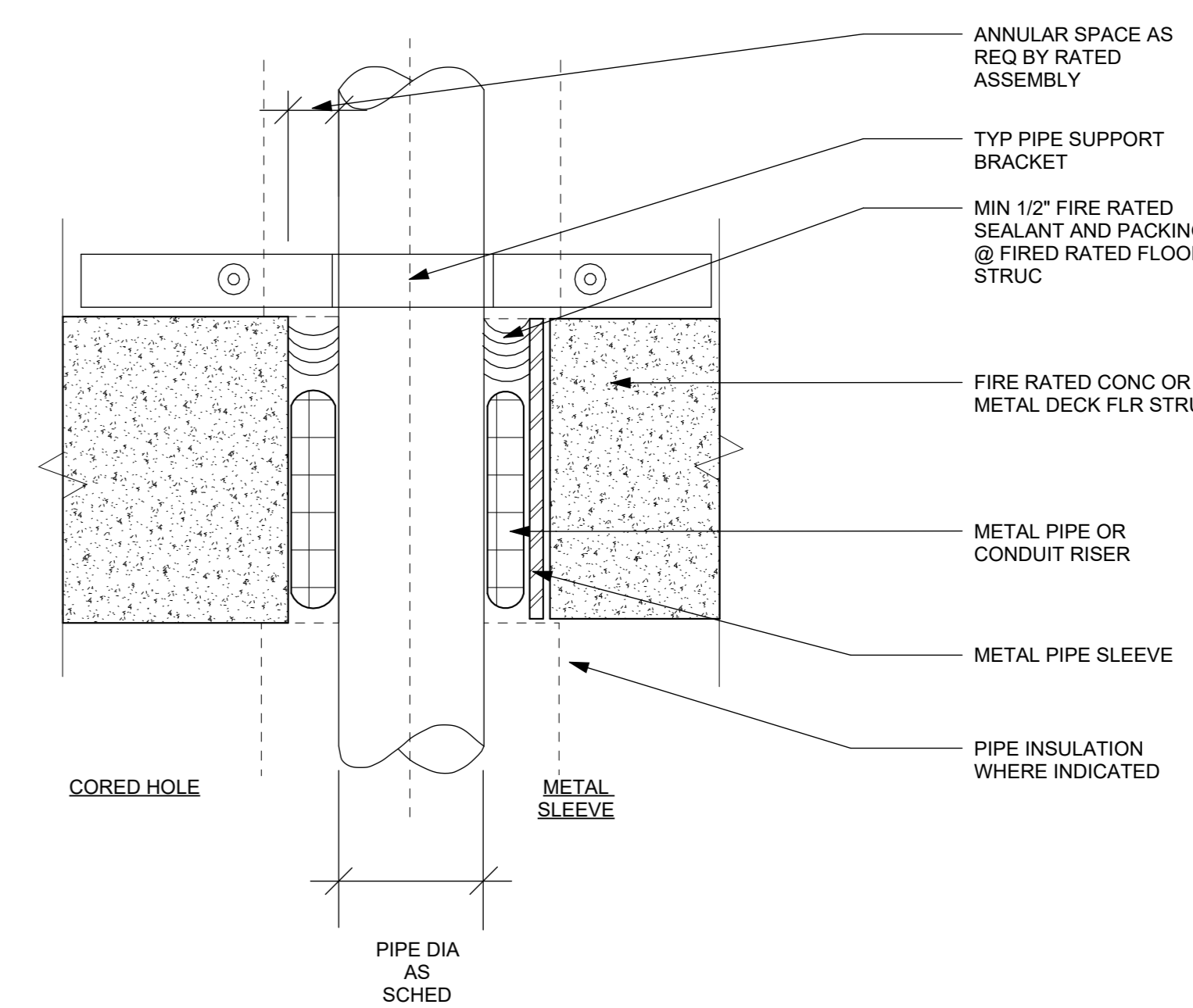
8 METAL DUCT THRU RATED CONC CMU WALL TYP
3" = 1'-0"



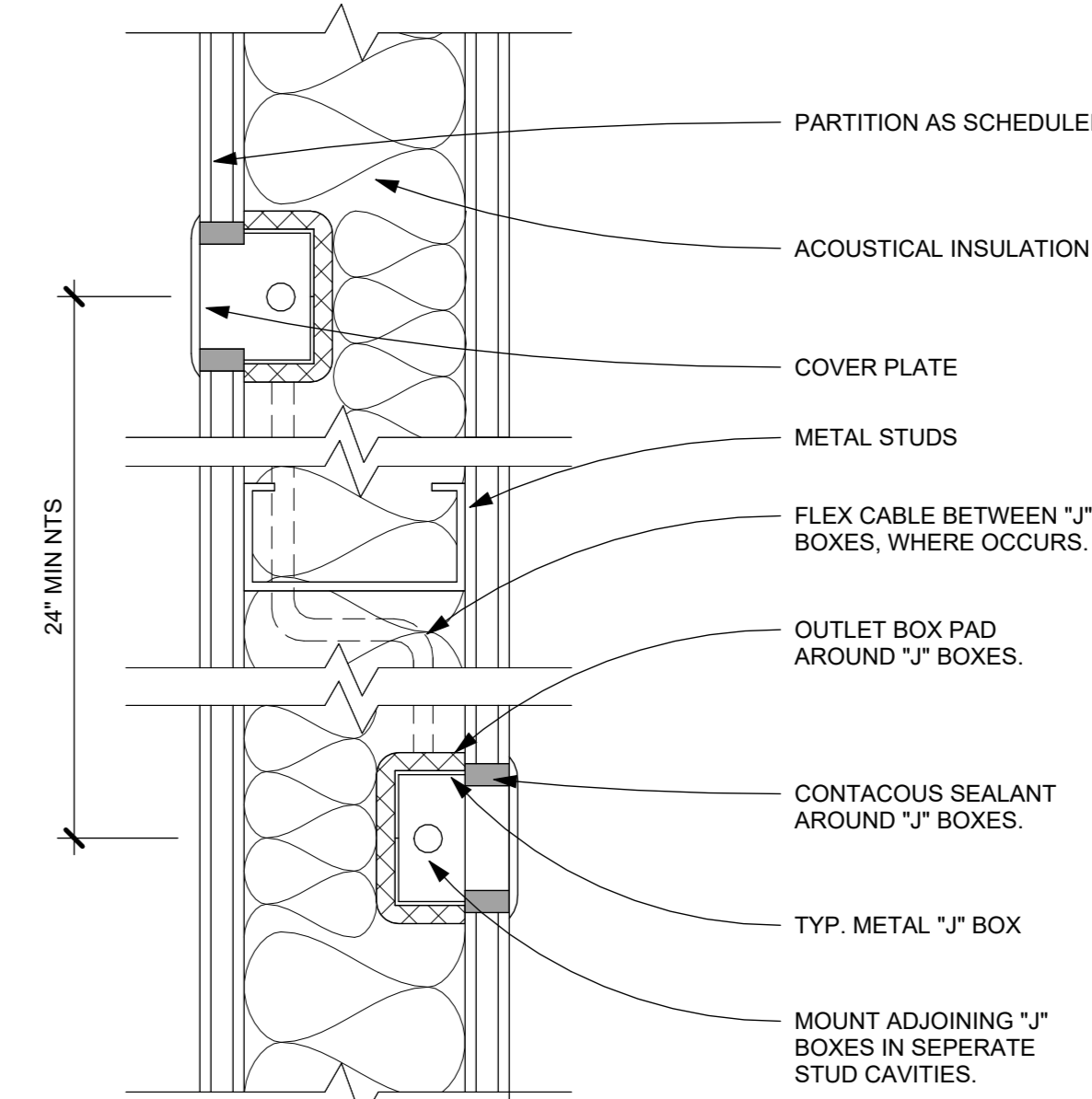
7 METAL DUCT THRU RATED GYP
3" = 1'-0"



6 PLASTIC PIPE THRU RATED CONC FLOOR TYP
3" = 1'-0"



5 PIPE-CONDUIT THRU RATED CONC FLOOR TYP
3" = 1'-0"



9 J BOX AT GYP BD PARTITION W ACOUSTICAL INSUL
3" = 1'-0"

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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

No. Date Issue

Sheet Title

**FRAMING &
PENETRATION
DETAILS**

Job No. 2020-1005 Date 12/01/23

Scale AS NOTED Drawn / Checked Author Checker

Sheet Number

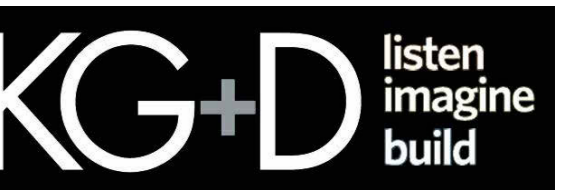
A902

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

GENERAL NOTES

- 1. GLAZING IN FIRE RATED DOORS SHALL BE FIRELITE PLUS TO MEET THE FIRE RATING SCHEDULED, UNLESS NOTED OTHERWISE.
- 2. G.C. SHALL VERIFY SIZE OF REPLACEMENT DOORS & FRAMES IN THE EXISTING BUILDING BEFORE ORDERING.
- 3. SEE SPEC. SECTION 08 71 00 FOR DOOR HARDWARE SETS, HARDWARE NOTES, COMPONENTS & OTHER INFORMATION.
- 4. EXTERIOR DOOR PAIRS SHALL HAVE AN ALUMINUM KEYPED REMOVABLE MULLION WITH RIM CYLINDER EXIT DEVICE WKEYED CYLINDER DOGGING.
- 5. INTERIOR DOOR PAIRS SHALL HAVE AN HOLLOW METAL KEYPED REMOVABLE MULLION WITH RIM CYLINDER EXIT DEVICE WKEYED CYLINDER DOGGING, EXCEPTION IS CROSS-CORRIDOR DOOR PAIRS & DOORS INTO STAIRS.
- 6. FRP DOORS SHALL HAVE SUITABLE BLOCKING FOR LEVER OR ARCHITECTURAL FULLS. RECESSED DOOR PULL NOT ACCEPTABLE.
- 7. FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME IS 4" (TYPICAL) U.N.O. SEE DETAILS A & B ON A9.2.

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| 3 | 06/01/2020 | DESIGN DEVELOPMENT |
| 4 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

DOOR SCHEDULE & TYPICAL DOOR DETAILS

| | | | |
|--------------|-----------|-----------------|-----|
| Job No. | 2020-1005 | Date | - |
| Scale | AS NOTED | Drawn / Checked | -/- |
| Sheet Number | A911 | | |

Door Schedule

| Mark | Room | # LEAVES | WI | HT | Elev | Door Mat | Door Fin | Fram e Mat | Frame Fin | Frame Type | Fire Label | Saddle | HDWE SET | MH/CR | Comments |
|------|------|----------|----|----|------|----------|----------|------------|-----------|------------|------------|--------|----------|-------|----------|
|------|------|----------|----|----|------|----------|----------|------------|-----------|------------|------------|--------|----------|-------|----------|

1st FLOOR

| | | | | | | | | | | | | | | | |
|------|-----------|---|-------|-------|-----|----|----|----|----|----|--|----|-----|----|--|
| 100A | VESTIBULE | 1 | 3'-0" | 8'-0" | WS1 | AL | FF | AL | FF | A9 | | AL | 1.0 | CR | SECURITY GLAZING @ DOOR & SIDELITES, ADA AUTO OPEN |
| 100B | VESTIBULE | 2 | 6'-0" | 8'-0" | WS1 | AL | FF | AL | FF | A9 | | AL | 2.0 | | SECURITY GLAZING @ DOOR & SIDELITES |
| 100C | VESTIBULE | 1 | 3'-0" | 8'-0" | WS1 | AL | FF | AL | FF | A9 | | AL | 3.0 | | SECURITY GLAZING @ DOOR & SIDELITES |
| 100D | LOBBY | 1 | 3'-0" | 8'-0" | WS1 | AL | FF | AL | FF | A8 | | | 1.0 | CR | SECURITY GLAZING @ DOOR & SIDELITES, ADA AUTO OPEN |
| 100E | LOBBY | 2 | 6'-0" | 8'-0" | WS1 | AL | FF | AL | FF | A8 | | | 2.0 | | SECURITY GLAZING @ DOOR & SIDELITES |
| 100F | LOBBY | 1 | 3'-0" | 8'-0" | WS1 | AL | FF | AL | FF | A8 | | | 3.0 | | SECURITY GLAZING @ DOOR & SIDELITES |

2nd FLOOR

| | | | | | | | | | | | | | | | |
|------|---------------|---|--------|-------|------|----|----|----|-----|-----|--------|----|--------|----|------|
| 200A | TRACK | 1 | 3'-0" | 8'-0" | WS1 | AL | FF | AL | FF | A2 | | | 12.0 | | |
| 200B | TRACK | 1 | 3'-0" | 8'-0" | WS1 | AL | FF | AL | FF | A3 | | | 12.0 | | |
| 202A | MULTI-PURPOSE | 1 | 2'-10" | 8'-0" | WS1 | AL | FF | AL | FF | 04 | | | 12.0 | | |
| 202B | MULTI-PURPOSE | 1 | 3'-0" | 8'-0" | WS1 | AL | FF | AL | FF | A1 | | | 12.0 | | |
| 203A | MULTI-PURPOSE | 1 | 2'-10" | 8'-0" | WS1 | AL | FF | AL | FF | 04 | | | 12.0 | | |
| 203B | MULTI-PURPOSE | 2 | 6'-0" | 7'-0" | FLNG | AL | FF | AL | FF | 02 | | | 13.0 | | |
| 205A | DATA | 1 | 3'-0" | 7'-0" | F | WD | FF | HM | PTD | 01 | | | 20.0 | CR | |
| 205B | STORAGE | 1 | 3'-0" | 7'-0" | F | WD | FF | HM | PTD | 01 | | | 26.0 | | |
| 206 | PANTRY | 1 | 3'-0" | 7'-0" | FLNG | WD | FF | HM | PTD | 01 | | | 19.0 | | |
| 207 | WOMEN | 1 | 3'-0" | 7'-0" | F | WD | FF | HM | PTD | 01 | | | 30.0 | | |
| 208 | MEN | 1 | 3'-0" | 7'-0" | F | WD | FF | HM | PTD | 01 | | | 30.0 | | |
| 209 | ELEC | 1 | 3'-0" | 7'-0" | F | WD | FF | HM | PTD | 01 | 45 MIN | | 27.0 | | |
| 209A | EMR | 2 | 5'-0" | 7'-0" | F | WD | FF | HM | PTD | 02 | | | 27.0 | | |
| 210 | JANITOR | 1 | 3'-0" | 7'-0" | F | WD | FF | HM | PTD | 01 | | | 26.0 | | |
| 211 | TOILET | 1 | 3'-0" | 7'-0" | F | WD | FF | HM | PTD | 01 | | | 26.0 | | |
| 212 | OPEN OFFICE | 1 | 3'-0" | 8'-0" | WS1 | AL | FF | AL | FF | A6 | | | 11.0 | | |
| 212A | OFFICE | 1 | 3'-0" | 7'-0" | F | WD | FF | HM | PTD | 03 | | | 18.0 | | |
| 212B | CONF | 1 | 3'-0" | 7'-0" | F | WD | FF | HM | PTD | 03 | | | 18.0 | | |
| 212C | OFFICE | 1 | 3'-0" | 7'-0" | F | WD | FF | HM | PTD | 03 | | | 18.0 | | |
| C201 | TERRACE | 1 | 3'-0" | 7'-0" | WS1 | AL | FF | AL | FF | A4 | | AL | 4.0 | | |
| SA2 | STAIR A | 1 | 3'-0" | 7'-0" | FLNG | WD | FF | HM | PTD | 01M | | | 60 MIN | | 21.0 |
| SB2A | STAIR B | 1 | 3'-0" | 7'-0" | FLNG | WD | FF | HM | PTD | 01M | | | 60 MIN | | 21.0 |
| SB2B | STAIR B | 1 | 3'-0" | 7'-0" | FLNG | WD | FF | HM | PTD | 01M | | | 60 MIN | | 21.0 |

- DOOR SADDLE NOTES:**
- 1. COORDINATE DOOR UNDERCUT WITH SADDLE & OTHER UNDERCUTTING REQUIRED. SEE DOOR SCHEDULE & SADDLE DETAILS ON THIS SHEET.
 - 2. SADDLES SHALL BE FULL WIDTH OF DOOR FRAME.
 - 3. SADDLES MAY BE OMITTED WHERE MATERIALS OF SIMILAR THICKNESS MEET WITH THE WRITTEN APPROVAL OF THE ARCHITECT.
 - 4. AT GYM DOORS, INTERIOR & EXTERIOR, PROVIDE AN EXTENDED ALUMINUM SADDLE TO COVER THE EXPANSION JOINT AT SPORTS FLOORING. SADDLE SHALL HAVE BEVELED EDGES & NON-SKID SURFACE.
 - 5. SLATE SADDLES, WHEN USED OR CALLED FOR SHALL BE SELECTED FROM FULL COLOR RANGE TO MATCH ADJACENT FLOORING.
- DOOR HARDWARE NOTES:**
- 1. PROVIDE "FIRE BOLT" HARDWARE WITH SUITABLE UL LISTING & FIRE RATING FOR DOORS WITHIN FIRE-RATED WALLS & SMOKE BARRIERS (NO-DOGGING PERMITTED).
 - 2. HARDWARE WITHIN FIRE-RATED WALLS SHALL BE RATED FOR THE FIRE-RATING OF THAT WALL.
 - 3. HOLLOW METAL FRAMES WITHIN FIRE WALLS SHALL BE RATED FOR THE FIRE-RATING OF THAT WALL.
 - 4. HOLLOW METAL CROSS-CORRIDOR DOORS SHALL HAVE INTEGRATED / RECESSED PANIC HARDWARE.
 - 5. PROVIDE CONTINUOUS HINGES AT ALL EXTERIOR DOORS & AS NOTED ELSEWHERE. ALL OTHER DOORS SHALL RECEIVE 1/4" PR. H.D. BUTT HINGES PER LEAF UNLESS NOTED OTHERWISE.
 - 6. PROVIDE INTEGRAL HOLD-OPEN FEATURE ON OVERHEAD CLOSERS AT MAIN ENTRY DOORS & ASSOCIATED VESTIBULE DOORS. ALSO AS NOTED IN DOOR SCHEDULE & WHERE ADJACENT WALL(S) CANNOT PROVIDE 90" WALL TYPE MAGNETIC HOLD OPEN.
 - 7. AT SMOKE & FIRE DOORS WITH MAGNETIC HOLD-OPEN FEATURE THAT DO NOT HAVE A WALL ADJACENT FOR MOUNTING HOLD-OPEN, PROVIDE INTEGRATED TYPE WITHIN FRAME. G.C. TO COORDINATE THIS WITH E.C. FOR INCLUSION OF WIRING.
 - 8. PROVIDE KICK PLATE ON PULL SIDE OF ALL DOORS EXCEPT ALUMINUM DOORS. PROVIDE MOP PLATES ON PUSH SIDE OF ALL DOORS EXCEPT AT CARPETED AREAS.
- DOOR GENERAL NOTES**
- GENERAL NOTES:**
- 1. DOORS, FRAMES, SIDELIGHTS, TRANSOMS & ASSOCIATED GLAZING SHALL MEET SCHEDULED FIRE RATINGS.
 - 2. GLAZING IN DOORS, SIDELIGHTS & WITHIN 18" OF GRADE, FLOORS, & STAIR LANDINGS SHALL BE LAMINATED SAFETY GLASS, U.N.O. ALL GLAZING IN AREAS WHERE USE MAY CAUSE PHYSICAL ABUSE, SUCH AS GYMNASIUMS & PLAYROOMS SHALL BE SAFETY GLAZING. SAFETY GLAZING SHALL BE IDENTIFIED & LABELED AS SAFETY GLAZING.
 - 3. CONTRACTOR SHALL VERIFY SIZES OF EXISTING DOORS & FRAMES NOTED FOR REPLACEMENT PRIOR TO ORDERING.
 - 4. SEE DOOR SCHEDULE & SPECIFICATION FOR DOOR HARDWARE SETS, HARDWARE NOTES, COMPONENTS & OTHER INFORMATION.
 - 5. EXTERIOR DOOR SYSTEMS SHALL BE FULLY PERIMETER CAULKED TO ADJACENT FINISHED SURFACES, BOTH INTERIOR & EXTERIOR EXCEPT WHERE SUCH ACTIONS WOULD DISRUPT PROPER DRAINAGE TO THE EXTERIOR.
 - 6. EXTERIOR DOOR PAIRS SHALL HAVE AN ALUMINUM KEYPED REMOVABLE MULLION, PLUS TYPE WIRING HARNESS, RIM CYLINDER EXIT DEVICE WITH KEYPED CYLINDER DOGGING.
 - 7. INTERIOR DOOR PAIRS SHALL HAVE A HOLLOW METAL KEYPED REMOVABLE MULLION, PLUS TYPE WIRING HARNESS, RIM CYLINDER EXIT DEVICE WITH KEYPED CYLINDER DOGGING. EXCEPTIONS ARE CROSS-CORRIDOR, STAIR & FIREWALL DOORS.
 - 8. SEE DOOR SCHEDULE FOR DOOR & FRAME FINISHES.
 - 9. DOORS SHALL HAVE SUITABLE BLOCKING FOR LEVERS OR ARCHITECTURAL FULLS.
 - 10. COORDINATE KEYS WITH OWNER PRIOR TO ORDERING HARDWARE.
 - 11. ALL NEW & REPLACEMENT INTERIOR DOOR FRAMES SHALL BE FULLY WELDED TYPE. KNOCKDOWN (K) FRAMES SHALL NOT BE USED.
 - 12. VERIFY HOLD-OPENS & STOPS WITH ADJACENT CONDITIONS.

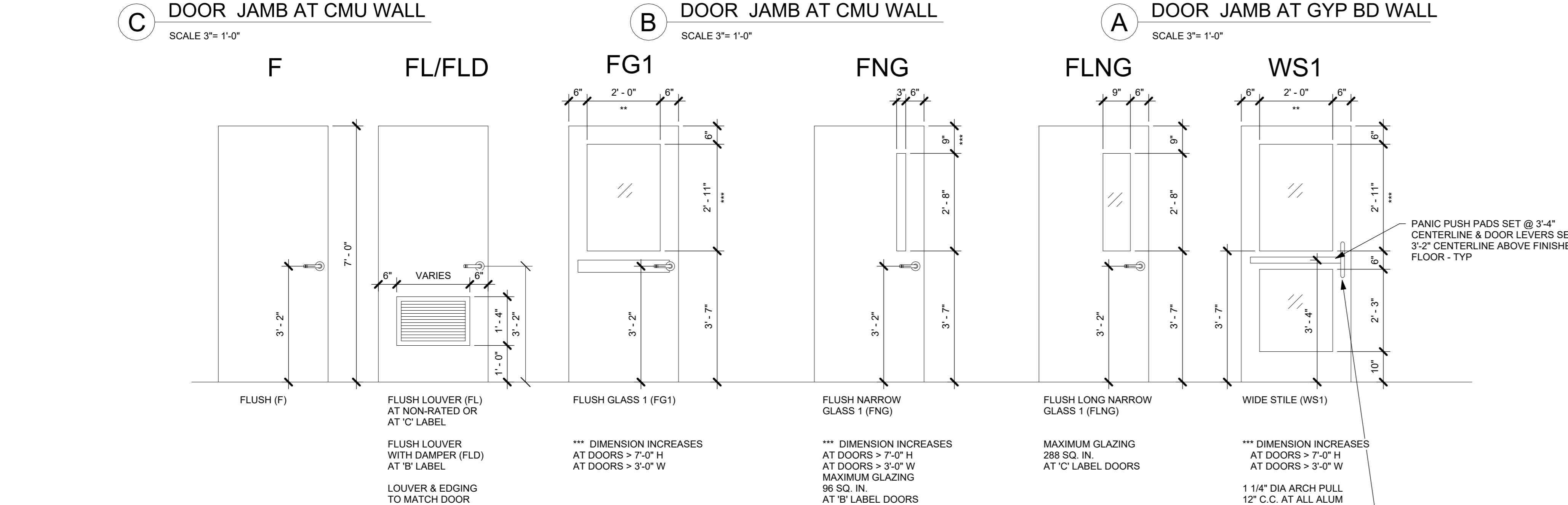
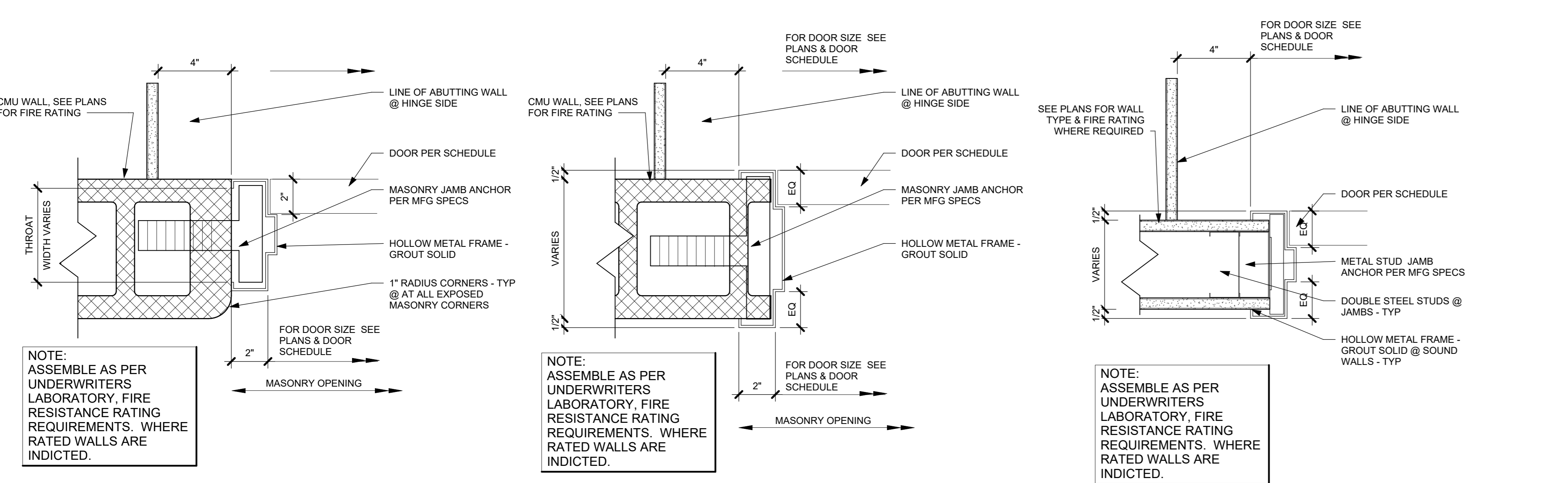
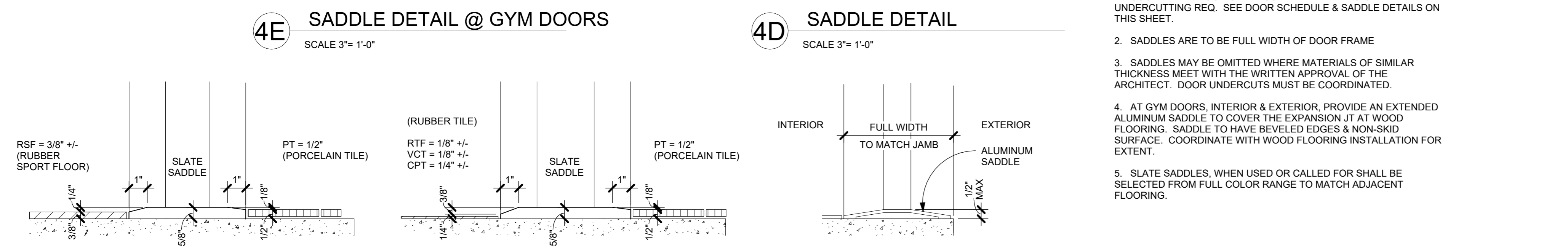
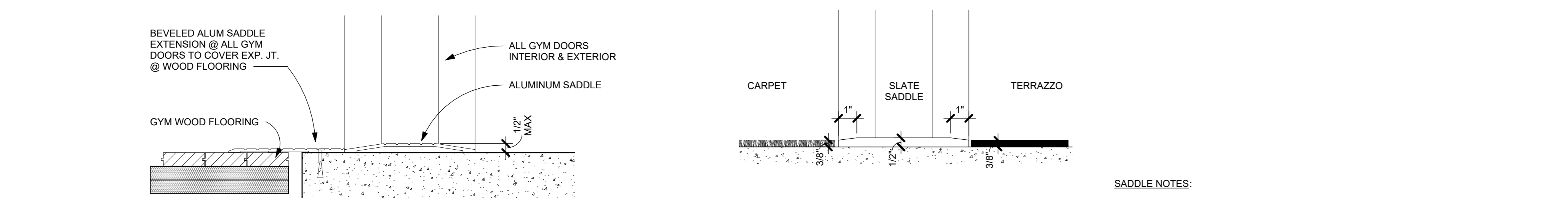


CHART OF DOOR RATINGS & UL LABEL

| UL LABEL | RATING | RATING | MAX GLASS AREA |
|----------|----------|--------|-------------------------|
| B | 1 1/2 HR | 90 MIN | 100 SQ INCHES PER LEAF |
| C | 3/4 HR | 45 MIN | 1296 SQ INCHES PER LEAF |
| S | SMOKE | SMOKE | |

- NOTE: GLAZING AND GLASS SIZES FOR INTERIOR DOORS AND WINDOWS ARE TO COMPLY WITH NFPA 80 OR ASTM E119 - TYP.

DOOR FINISH ABBREVIATIONS

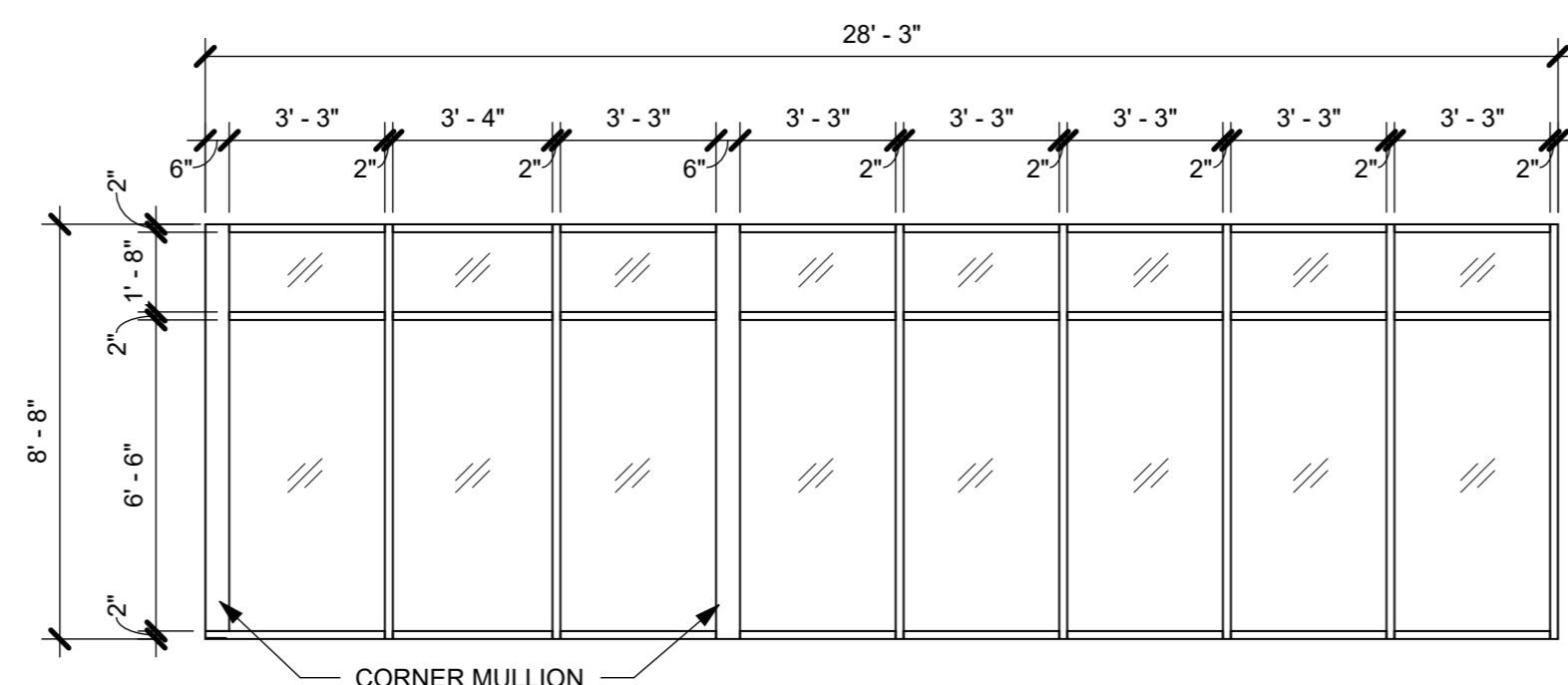
| | | | |
|--------|---------------------------------------|-----|----------------------------|
| AL | ALUMINUM | SA | SECURE ACCESS |
| CL | CLASSROOM | SS | SECURE |
| CS | CORRIDOR, SMOKE, & FIRE DOORS (RATED) | SS | (STORAGE/JANITOR/MECH/ETC) |
| EA | EXTERIOR, ALUMINUM | ST | STAIN & SEAL |
| F | FLUSH FLOOR | SW | STAIRWAY DOOR |
| FF | FACTORY FINISH | TM | TOILET, MULTI-USER |
| FG1 | FLUSH GLASS 1 | TS | TOILET, SINGLE-USER |
| FLNG | FLUSH LONG NARROW GLASS | WD | WOOD |
| FNG | FLUSH NARROW GLASS | WS1 | WIDE STYLE 1 |
| HM | HOLLOW METAL | | |
| MBL | MARBLE | | |
| OF | OUTSIDE FACE | | |
| P, PTD | PAINTED | | |

WINDOW GENERAL NOTES

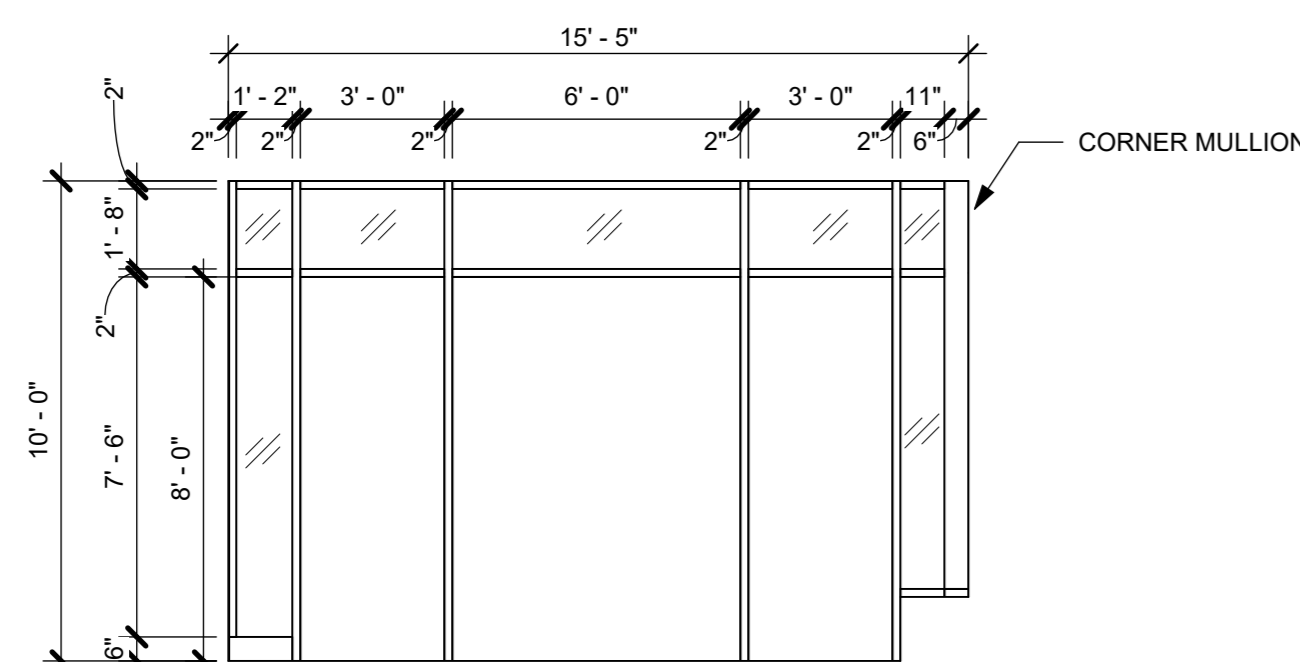
- GLAZING IN DOORS, SIDELIGHTS & WITHIN 18" OF GRADE, FLOORS, & STAIR LANDINGS SHALL BE LAMINATED SAFETY GLASS, U.N.O. ALL GLAZING IN AREAS WHERE USE MAY CAUSE PHYSICAL ABUSE, SUCH AS GYMNASIUMS & PLAYROOMS SHALL BE SAFETY GLAZING. SAFETY GLAZING SHALL BE IDENTIFIED & LABELED AS SAFETY GLAZING.
- FIRE-RATED GLAZING ASSEMBLIES, SIZES & TYPES SHALL COMPLY W/ NFPA 80 & OR ASTM E119. FIRE-RATING OF FRAME SHALL MATCH FIRE-RATING OF GLAZING.
- PROVIDE INSECT SCREENS FOR ALL OPERABLE WINDOWS.
- SCREENS ON RESCUE WINDOWS SHALL BE HINGED & SHALL BE OPERABLE FROM THE INSIDE WITH ONE HAND & WITHOUT THE USE OF A KEY OR OTHER DEVICE.
- AT INTERIOR AREAS BEHIND SPANDREL PANELS PROVIDE FRAMING, INSULATION & FINISH MATERIAL TO MATCH ADJACENT WALLS.
- FRAME(S) SHALL MEET FIRE RATING OF WALL ASSEMBLY, U.N.O.
- G.C. SHALL PROVIDE LOUVERS & COORDINATE FREE AREA REQUIRED.
- EXTERIOR LOUVERS SHALL BE 4" DEEP (MIN) ALUMINUM HORIZONTAL BLADE, STORM-PROOF, DRAINABLE, W/ 50% FREE AREA (MIN) FINISHED IN PREMIUM (KYNAR) METALLIC (OR CUSTOM) COLOR SELECTED BY ARCHITECT, W/ BIRD SCREEN, U.N.O. UNUSED PORTIONS OF LOUVERS SHALL BE BLANKED-OFF W/ BLACK PTD SHEETMETAL & INSULATED.

GLAZING LEGEND & TYPES

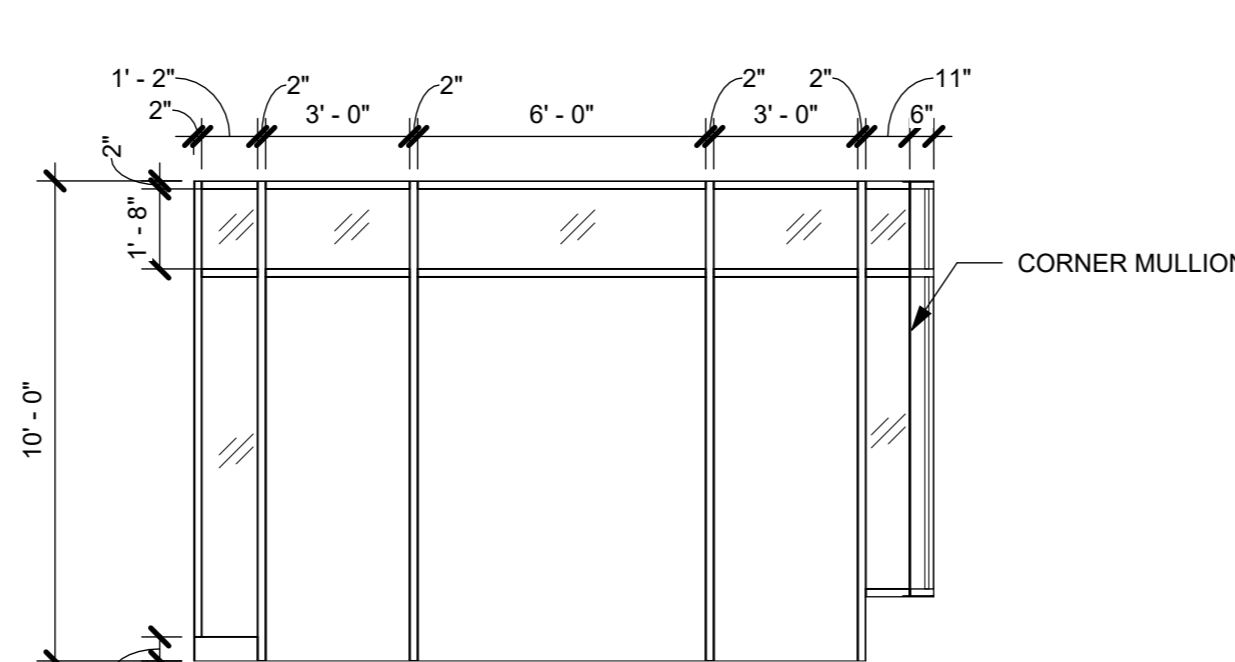
| INTERIOR | | | |
|----------|----------------------------|---------------------------------------|---|
| KEY | TYPES | USE | DESCRIPTION / BASIS-OF-DESIGN |
| ■ | WHERE NO TYPE IS INDICATED | GENERAL | CLEAR FLOAT GLASS - SAFETY GLASS WHERE NOTED &/OR SPECIFIED |
| ■ | FP-RATING | FIRE PROTECTION - RATING AS INDICATED | CLEAR LAMINATED CERAMIC GLASS - MEETS FIRE DOOR CRITERIA & HOSE STREAM TEST PER NFPA 252 (FIRELITE PLUS PREMIUM) |
| ■ | FR-RATING | FIRE RESISTANCE - RATING AS INDICATED | CLEAR LAMINATED CERAMIC GLASS - MEETS WALL ASSEMBLY & 450° TEMP RISE CRITERIA PER ASTM E119 & NFPA 252 (PILKINGTON PYROSTOP) |
| ■ | SG-1 | SECURITY GLASS | CLEAR CUSTOM SECURITY LAMINATED GLASS (SCHOOL GUARD SG4) |
| EXTERIOR | | | |
| KEY | TYPES | USE | DESCRIPTION / BASIS-OF-DESIGN |
| ■ | | GENERAL | INSULATED CLEAR ANNEALED GLASS W/ LOW-E (SOLARBAN 70) - USE HEAT-STRENGTHENED, LAMINATED, &/OR TEMPERED AS NOTED &/OR SPECIFIED |
| ■ | | SPANDREL | INSULATED CLEAR HEAT-STRENGTHENED GLASS W/ LOW-E (SOLARBAN 70) & SPANDREL COATING AS SPECIFIED |
| ■ | SG-4 | SECURITY GLASS | INSULATED CLEAR CUSTOM SECURITY LAMINATED GLASS W/ LOW-E (SCHOOL GUARD SG4 IGU W/ SOLARBAN 70) |



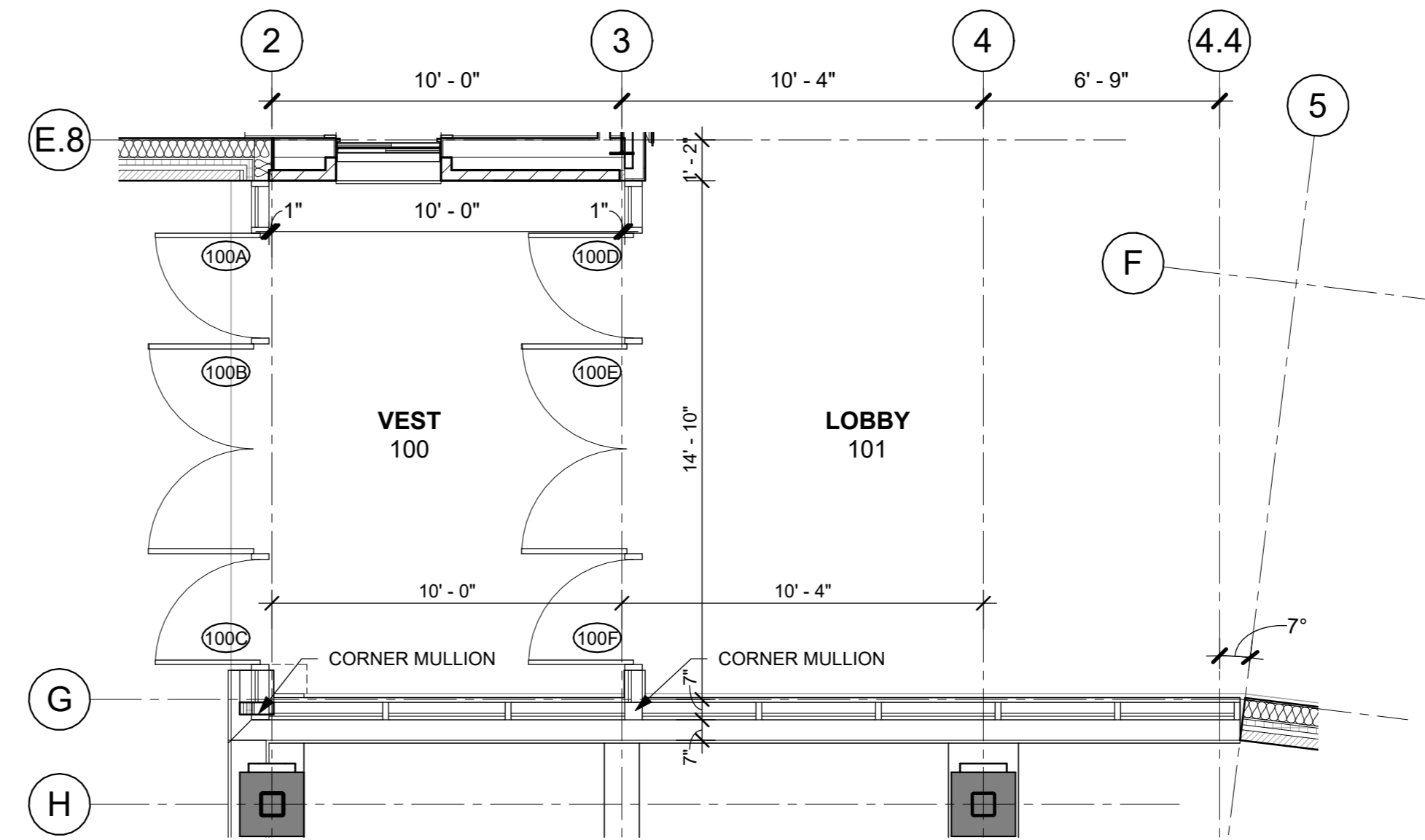
A7 FRAME TYPE - 01
1/4" = 1'-0"



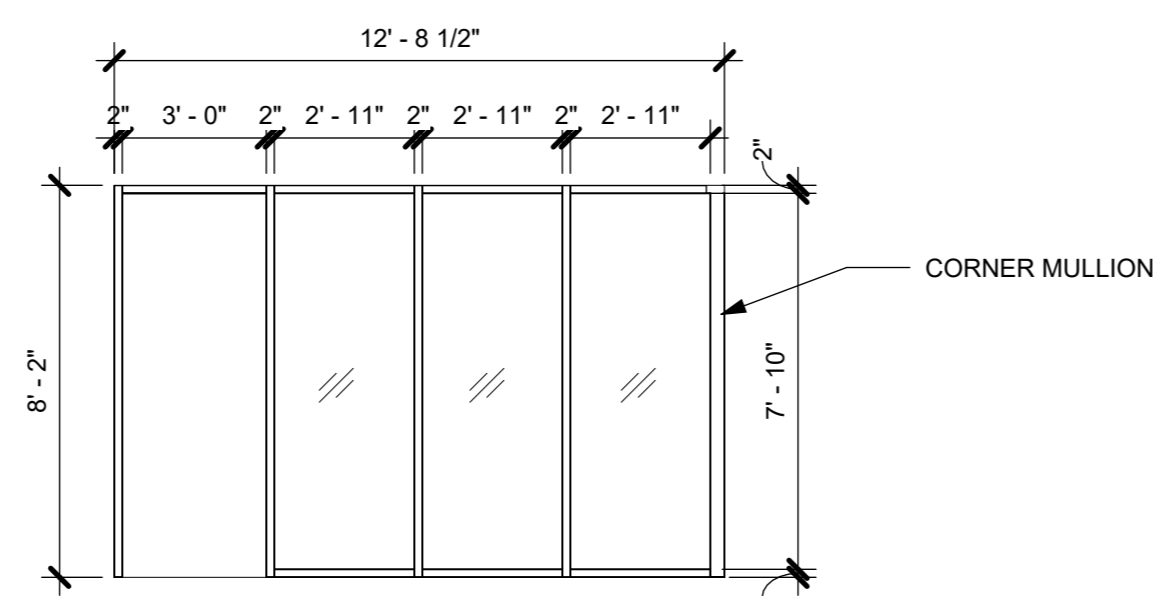
A9 FRAME TYPE - A9
1/4" = 1'-0" PROVIDE SG-4 (SECURITY GLASS) IN DOORS, SIDELIGHTS AND TRANSOMS



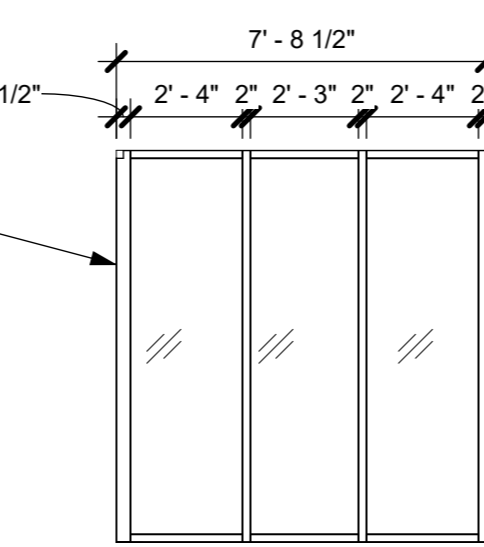
A8 FRAME TYPE - A8
1/4" = 1'-0" PROVIDE SG-4 (SECURITY GLASS) IN DOORS, SIDELIGHTS AND TRANSOMS



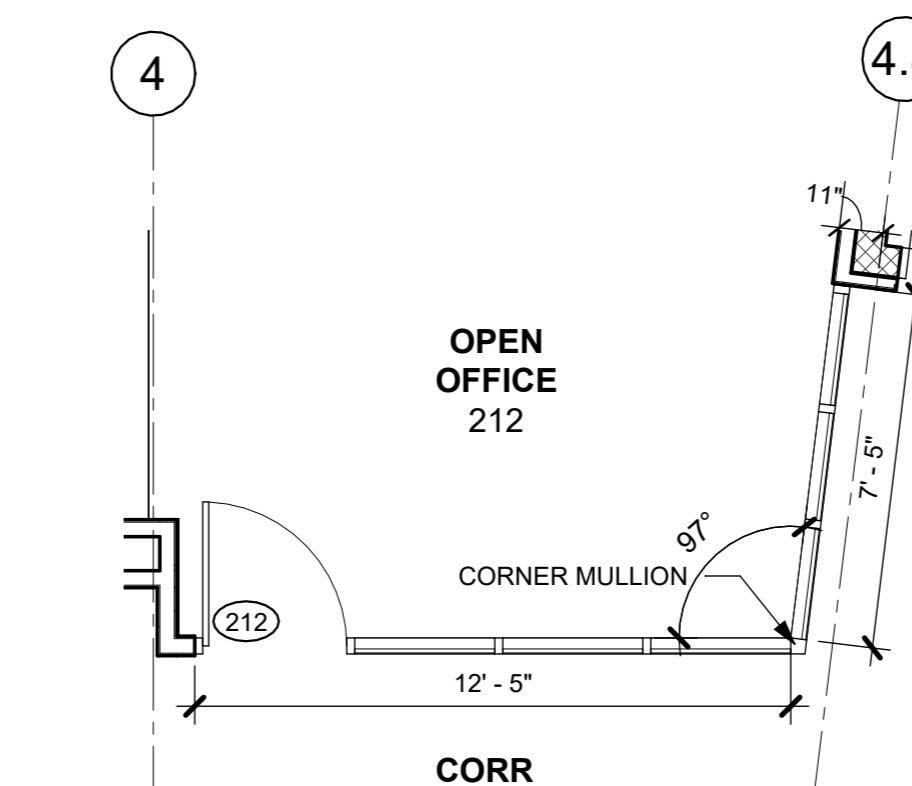
A MAIN OFFICE ENLARGED PLAN1
1/4" = 1'-0"



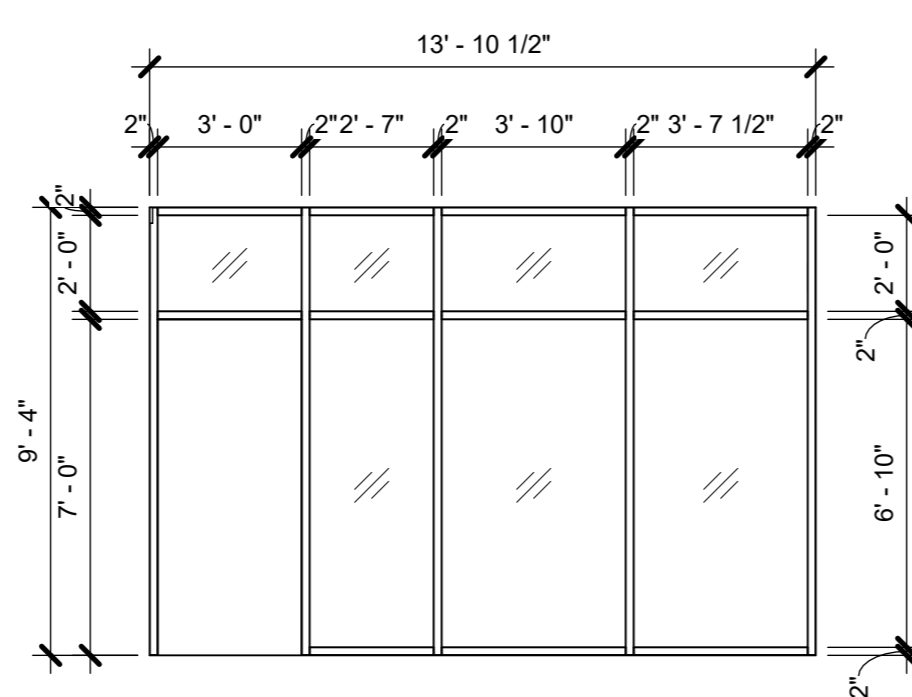
A6 FRAME TYPE - A6
1/4" = 1'-0"



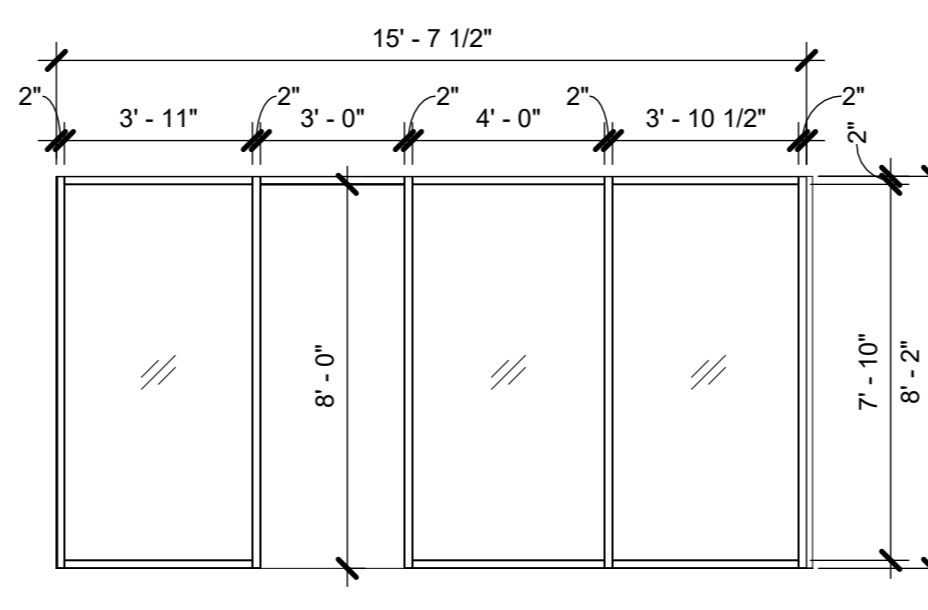
A5 FRAME TYPE - A5
1/4" = 1'-0"



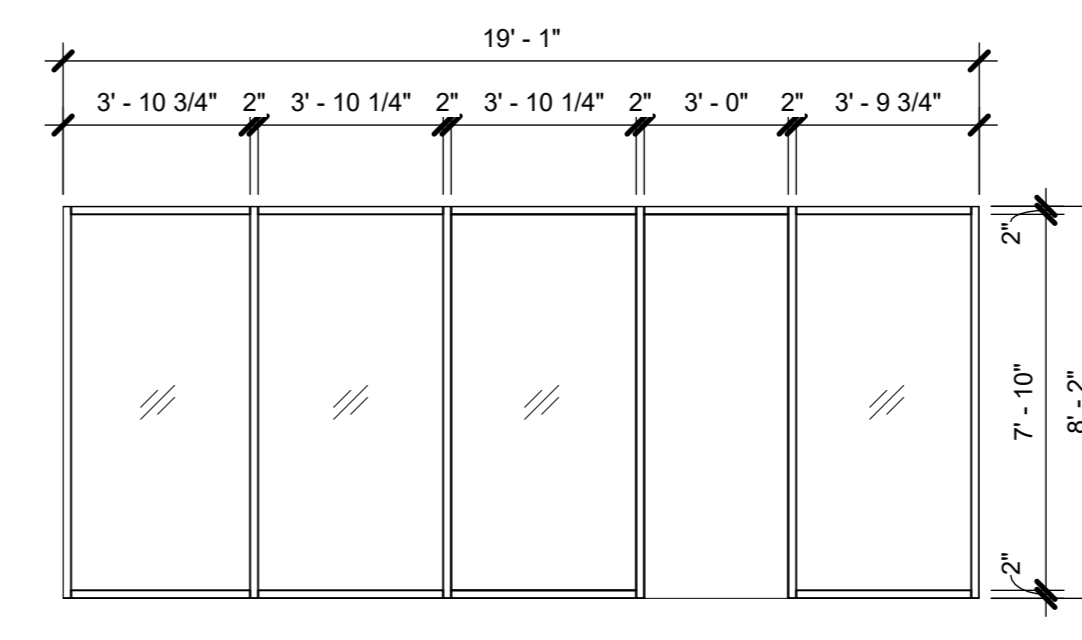
B ENLARGED PLAN @ OPEN OFFICE 212
1/4" = 1'-0"



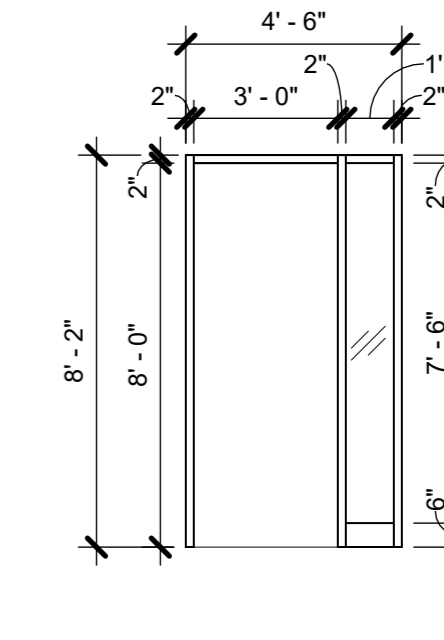
A4 WINDOW TYPE - A4
1/4" = 1'-0"



A3 FRAME TYPE - A3
1/4" = 1'-0"



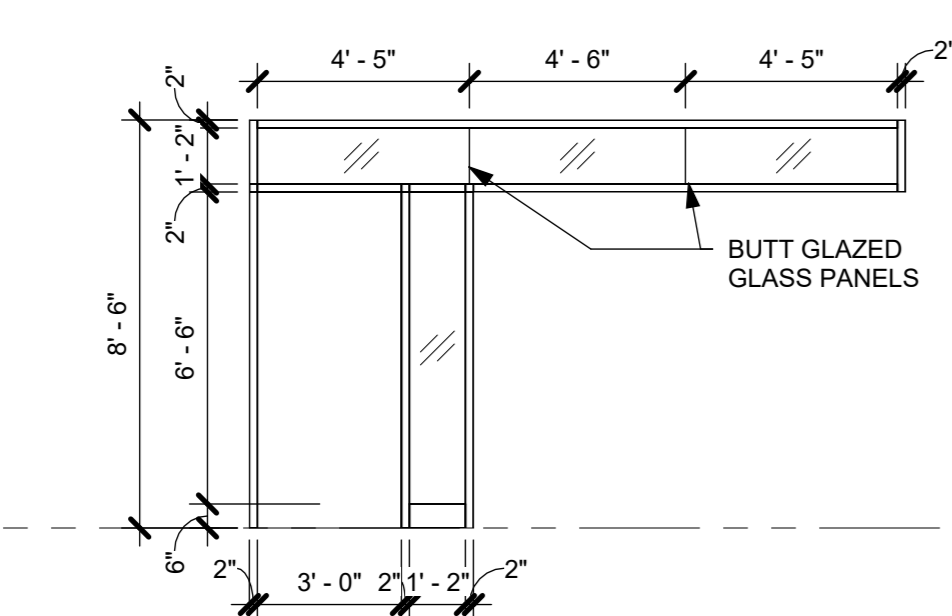
A2 FRAME TYPE - A2
1/4" = 1'-0"



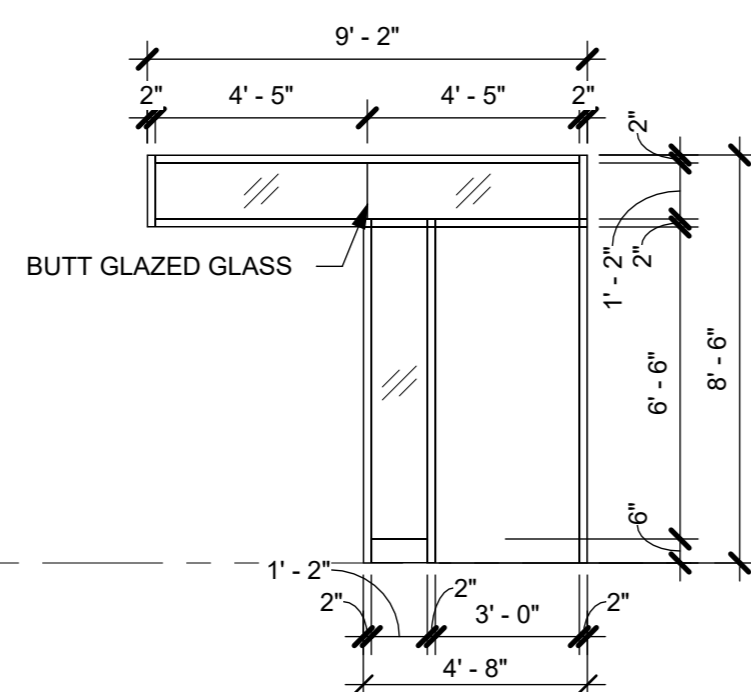
A1 FRAME TYPE - A1
1/4" = 1'-0"

ALUMINUM FRAME TYPES

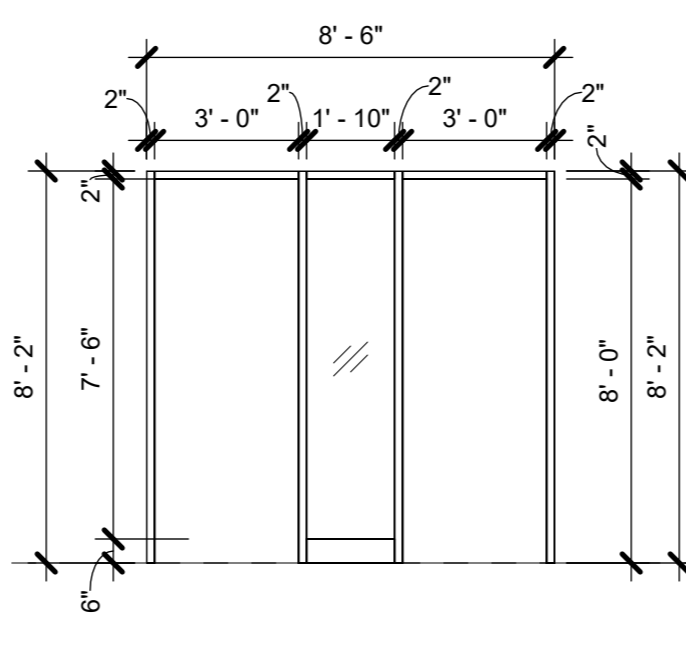
HOLLOW METAL FRAME TYPES



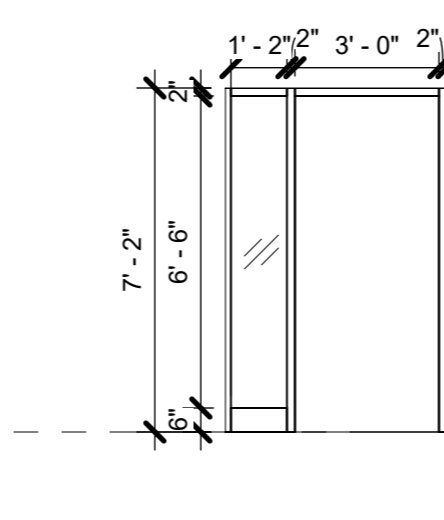
H5 FRAME TYPE - H5
1/4" = 1'-0"



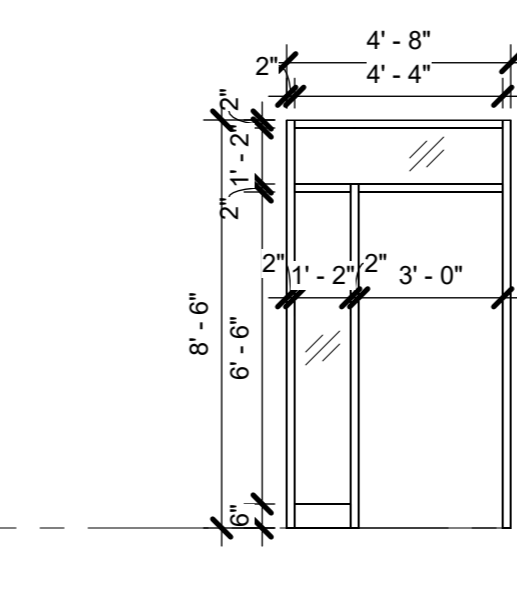
H4 FRAME TYPE - H4
1/4" = 1'-0"



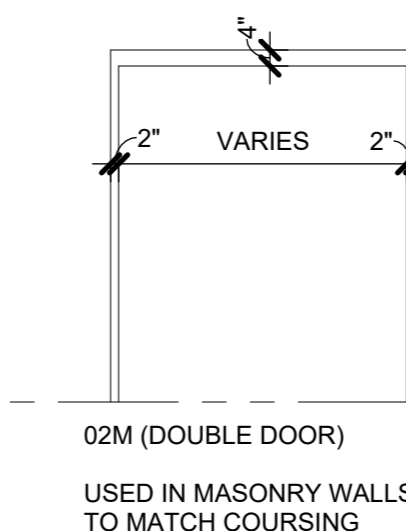
H3 FRAME TYPE - H3
1/4" = 1'-0"



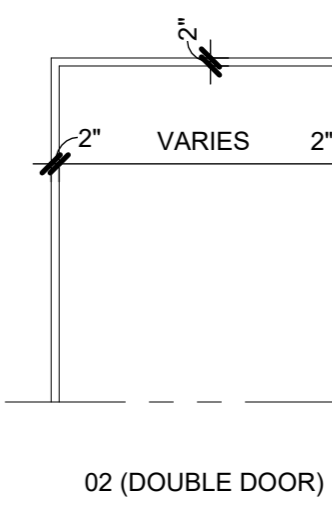
H2 FRAME TYPE - H2
1/4" = 1'-0"



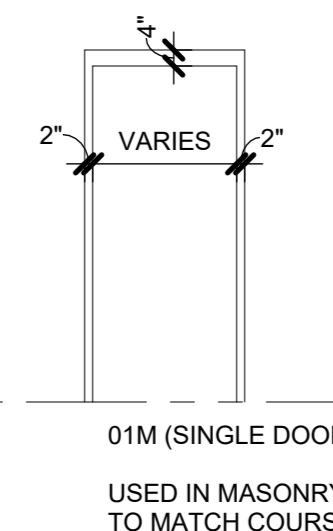
H1 FRAME TYPE - H1
1/4" = 1'-0"



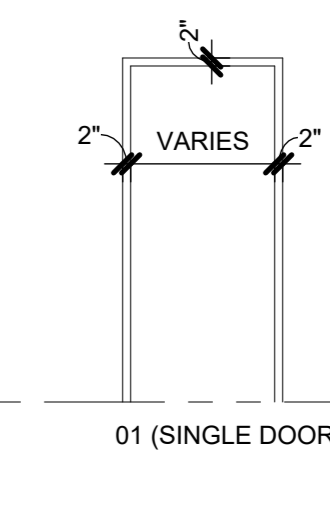
02M (DOUBLE DOOR)
USED IN MASONRY WALLS TO MATCH COURSING



02 (DOUBLE DOOR)
USED IN MASONRY WALLS TO MATCH COURSING



01M (SINGLE DOOR)
USED IN MASONRY WALLS TO MATCH COURSING



01 (SINGLE DOOR)

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Professional Seal

| No. | Date | Issue |
|-----|------------|------------------------|
| 4 | 06/05/2024 | ISSUED FOR BID |
| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title

DOOR & FRAME TYPES

Job No. 2020-1005 Date 12/01/23

Scale AS NOTED Drawn / Checked Author / Checker

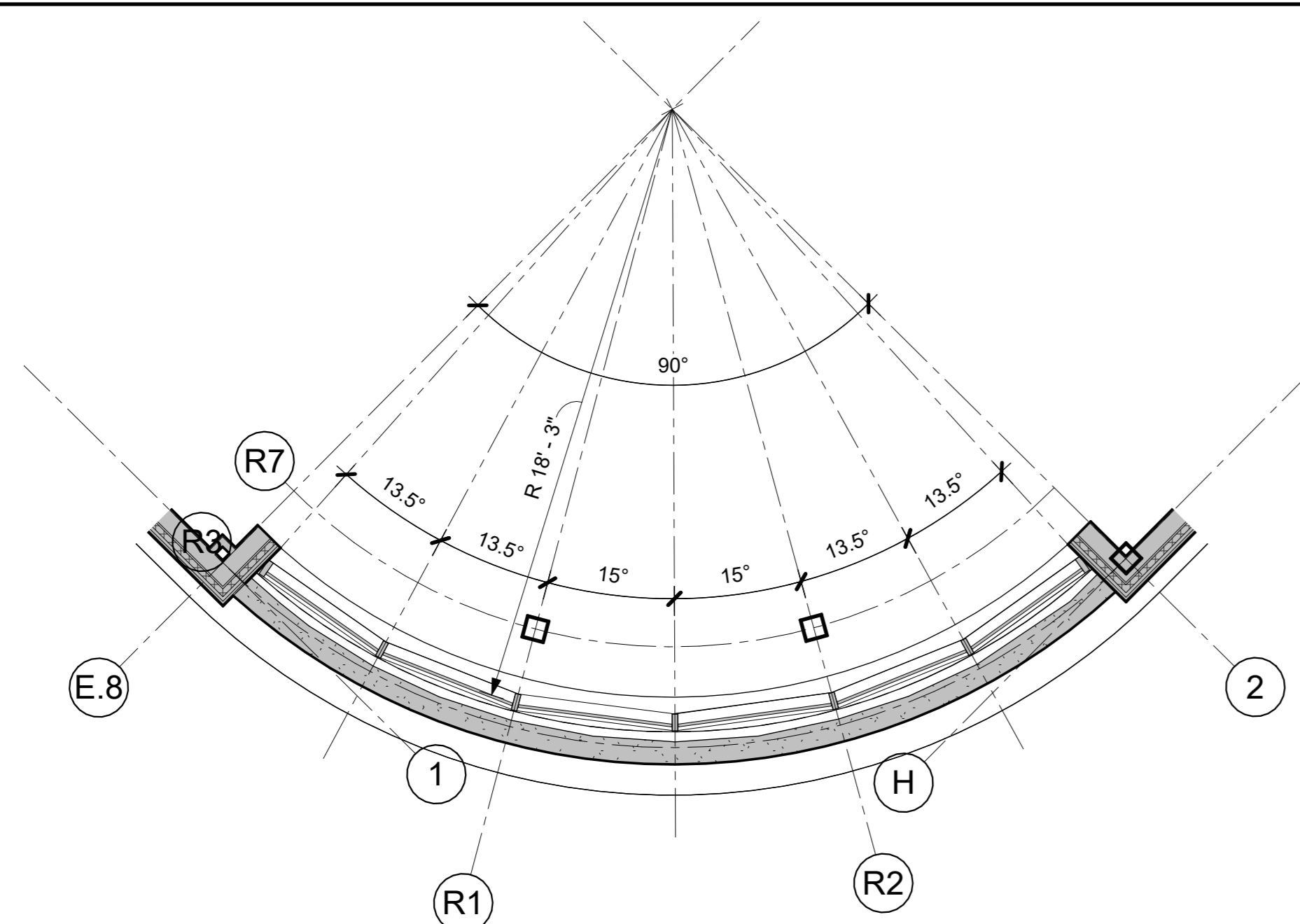
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WINDOW GENERAL NOTES

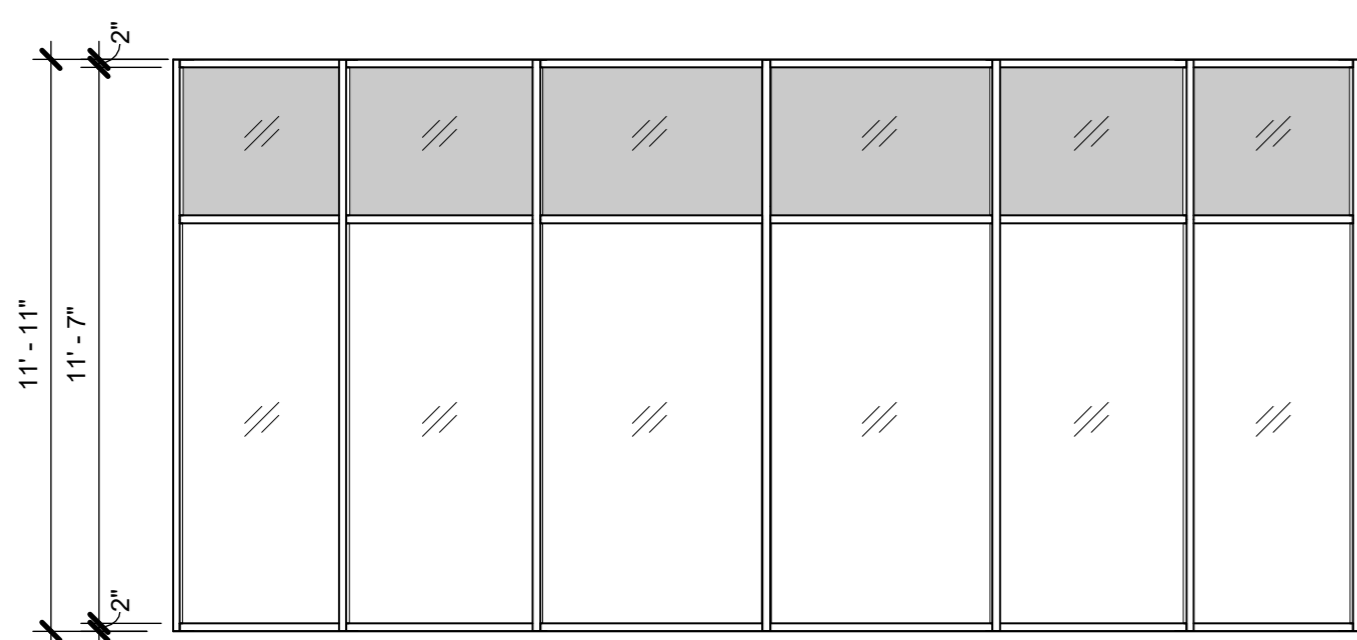
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GLAZING LEGEND & TYPES

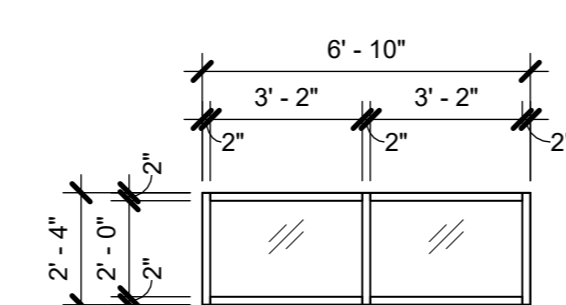
| INTERIOR | | | |
|----------|----------------------------|---------------------------------------|---|
| KEY | TYPES | USE | DESCRIPTION / BASIS-OF-DESIGN |
| [Symbol] | WHERE NO TYPE IS INDICATED | GENERAL | CLEAR FLOAT GLASS - SAFETY GLASS WHERE NOTED &/OR SPECIFIED |
| [Symbol] | FP-RATING | FIRE PROTECTION - RATING AS INDICATED | CLEAR LAMINATED CERAMIC GLASS - MEETS FIRE DOOR CRITERIA & HOSE STREAM TEST PER NFPA 252 (FIRELITE PLUS PREMIUM) |
| [Symbol] | FR-RATING | FIRE RESISTANCE - RATING AS INDICATED | CLEAR LAMINATED CERAMIC GLASS - MEETS WALL ASSEMBLY & 450° TEMP RISE CRITERIA PER ASTM E119 & NFPA 252 (PILKINGTON PYROSTOP) |
| [Symbol] | SG-1 | SECURITY GLASS | CLEAR CUSTOM SECURITY LAMINATED GLASS (SCHOOL GUARD SG4) |
| EXTERIOR | | | |
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| [Symbol] | | SPANDREL | INSULATED CLEAR HEAT-STRENGTHENED GLASS W/ LOW-E (SOLARBAN 70) & SPANDREL COATING AS SPECIFIED |
| [Symbol] | SG-4 | SECURITY GLASS | INSULATED CLEAR CUSTOM SECURITY LAMINATED GLASS W/ LOW-E (SCHOOL GUARD SG4 IGU W/ SOLARBAN 70) |



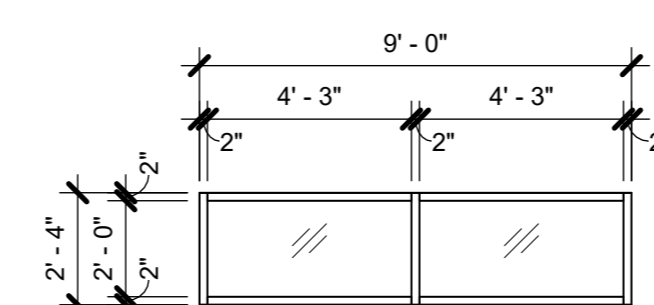
1 ENLARGED WINDOW PLAN
1/4" = 1'-0"



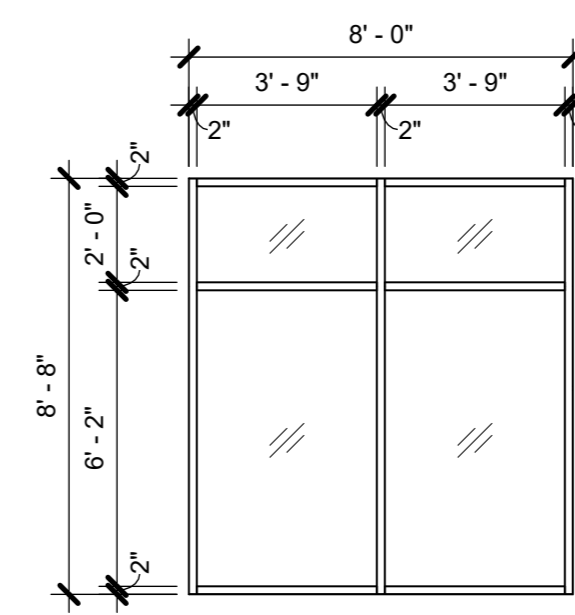
2G WINDOW TYPE 2G
1/4" = 1'-0"



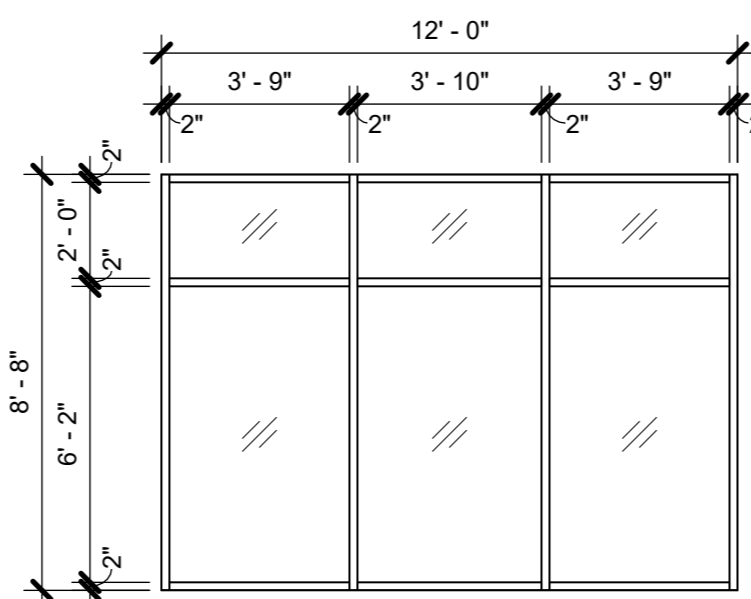
2H WINDOW TYPE 2H
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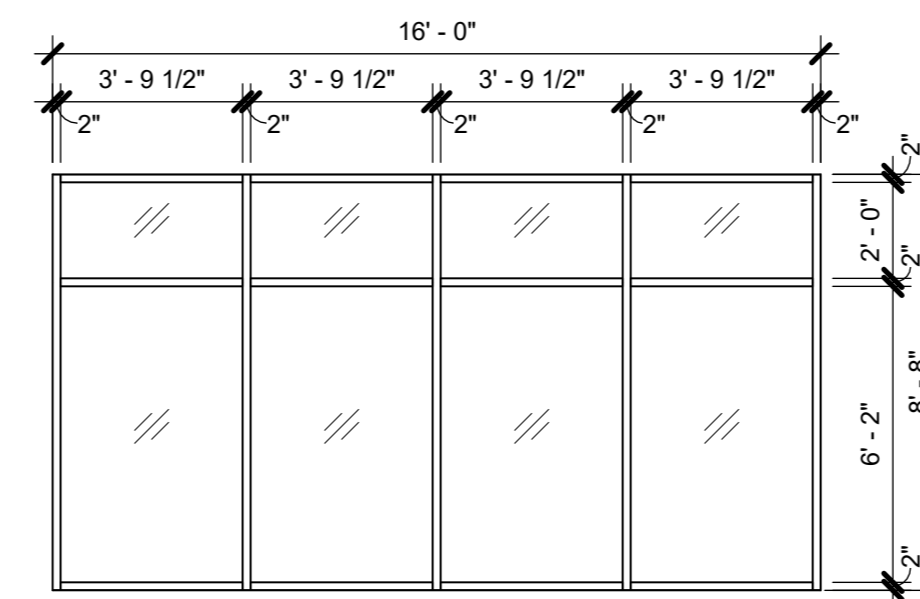
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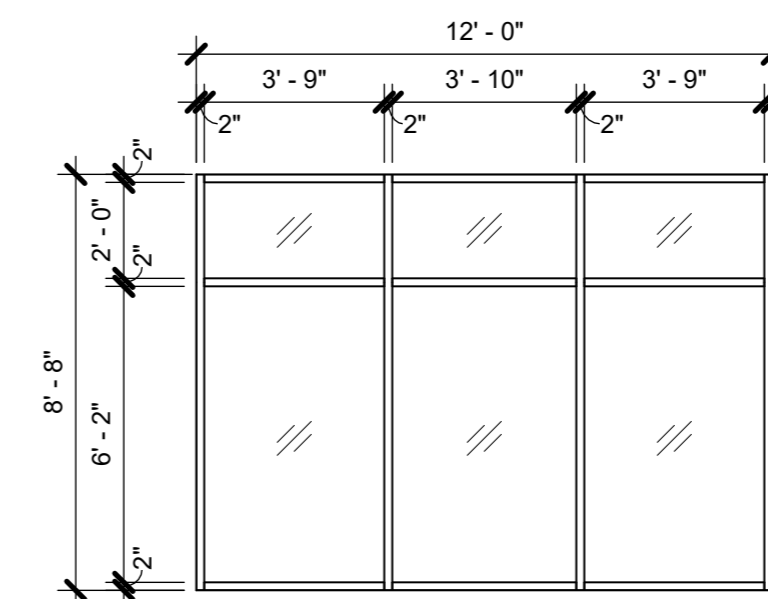
2E WINDOW TYPE 2E
1/4" = 1'-0"



2C WINDOW TYPE 2C
1/4" = 1'-0"

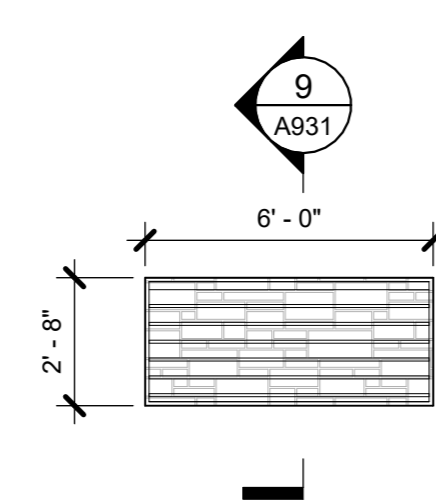


2B WINDOW TYPE 2B
1/4" = 1'-0"

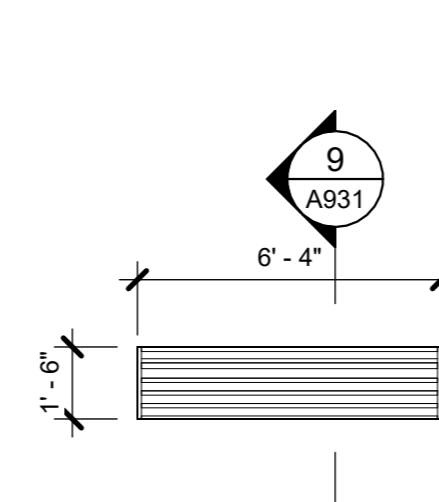


2A WINDOW TYPE 2A
1/4" = 1'-0"

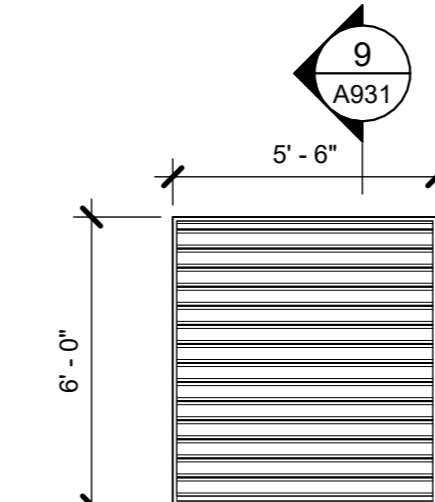
2nd FLOOR EXTERIOR GLAZING



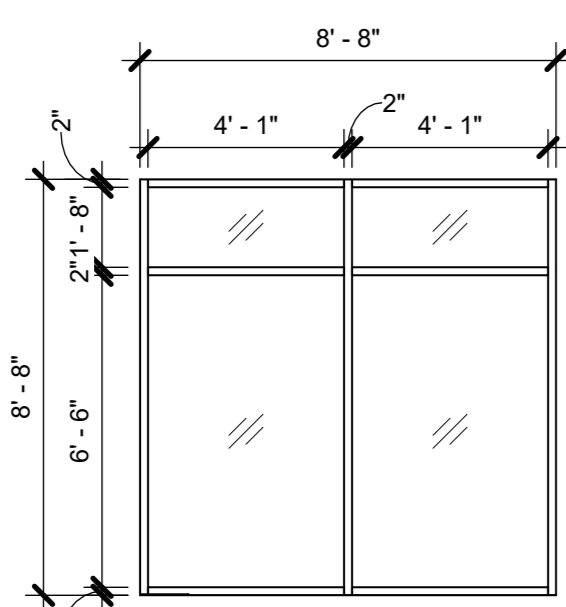
L3 ALUM LOUVER
1/4" = 1'-0"



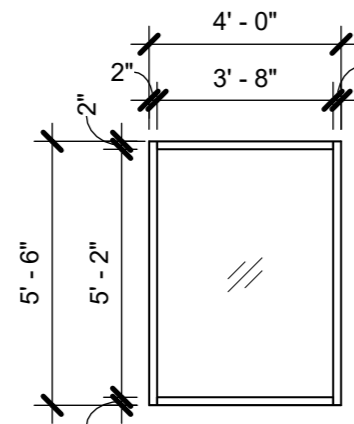
L2 ALUM LOUVER
1/4" = 1'-0"



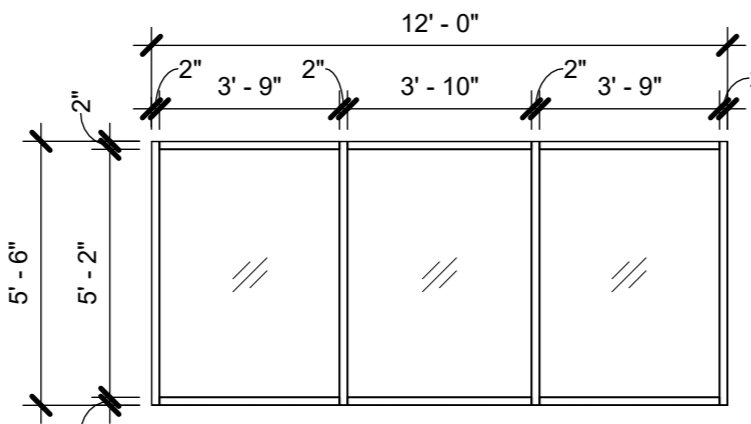
L1 ALUM LOUVER
1/4" = 1'-0"



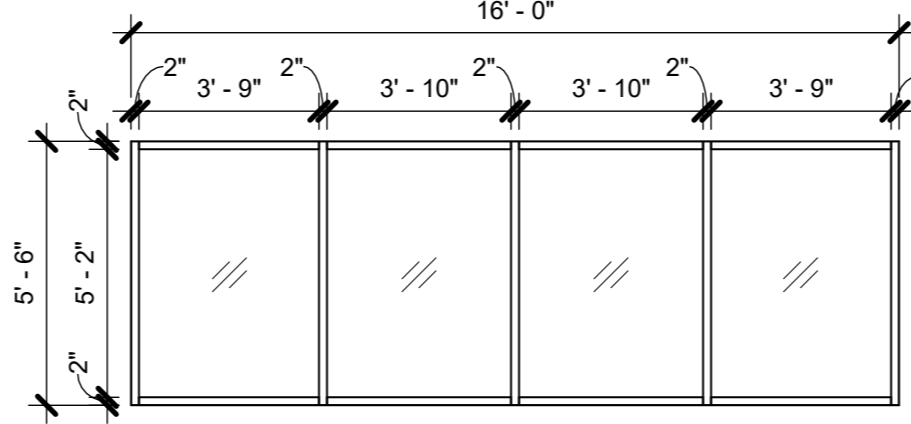
1G WINDOW TYPE 1G
1/4" = 1'-0"



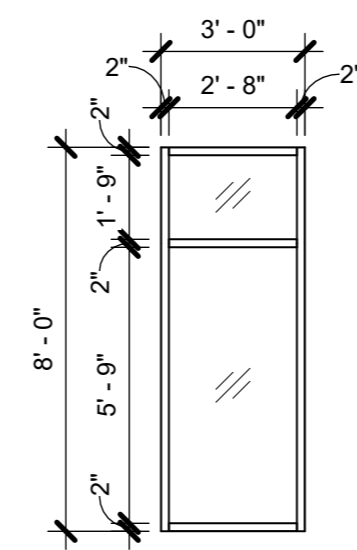
1F WINDOW TYPE 1F
1/4" = 1'-0"



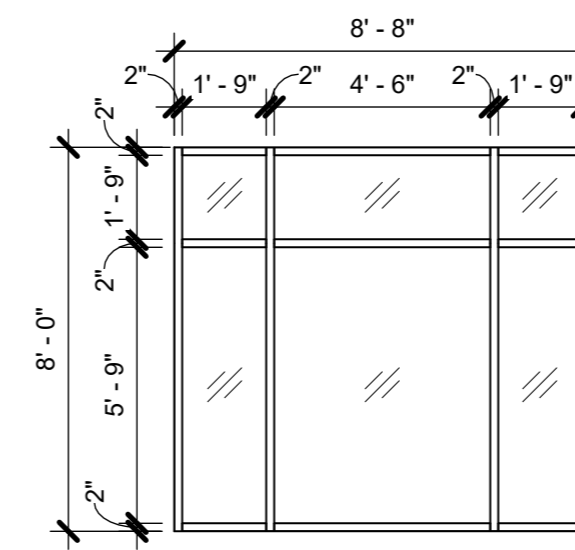
1E WINDOW TYPE 1E
1/4" = 1'-0"



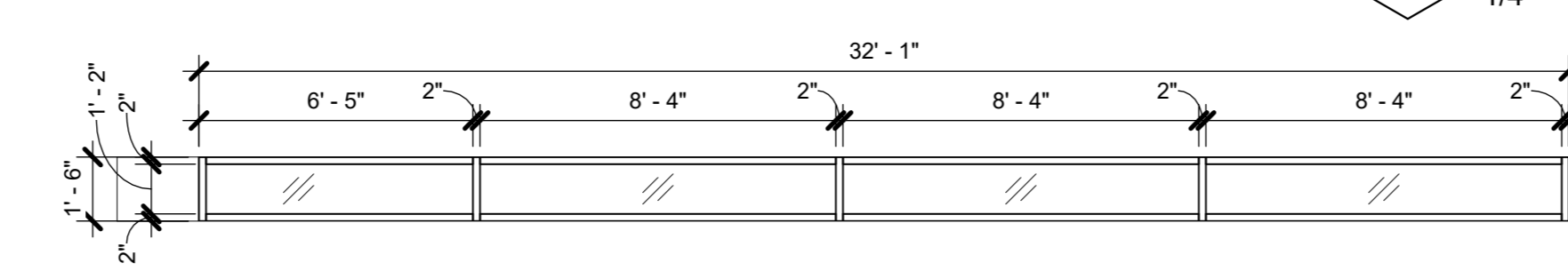
1D WINDOW TYPE 1D
1/4" = 1'-0"



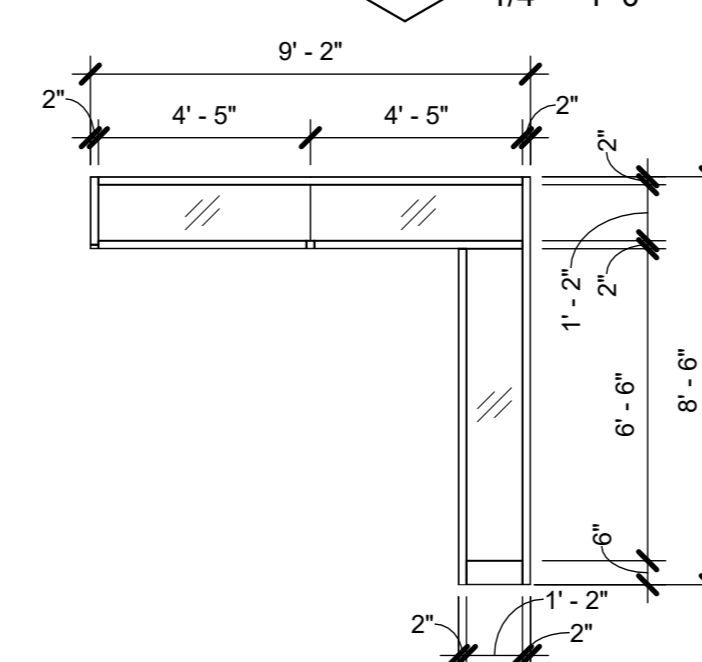
1B WINDOW TYPE 1B
1/4" = 1'-0"



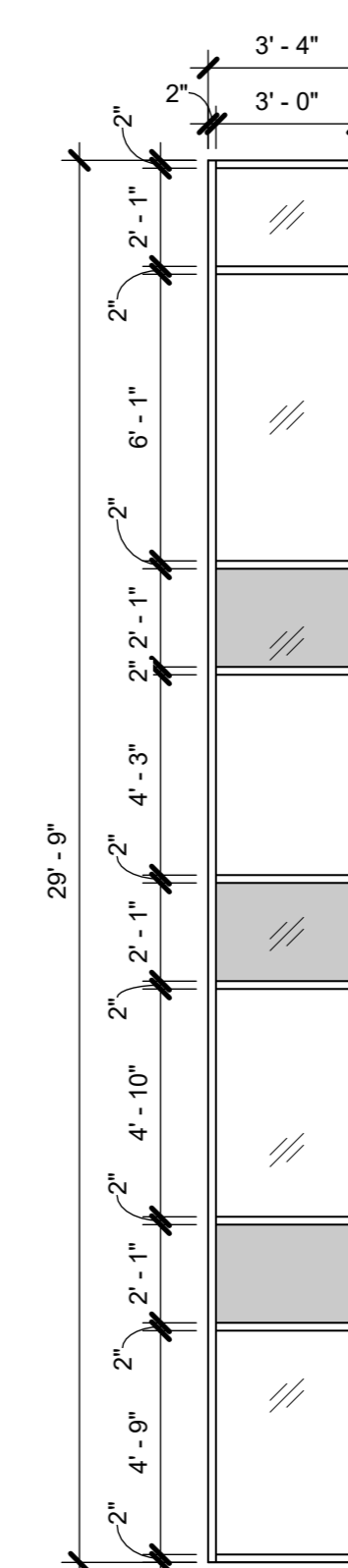
1A WINDOW TYPE 1A
1/4" = 1'-0"



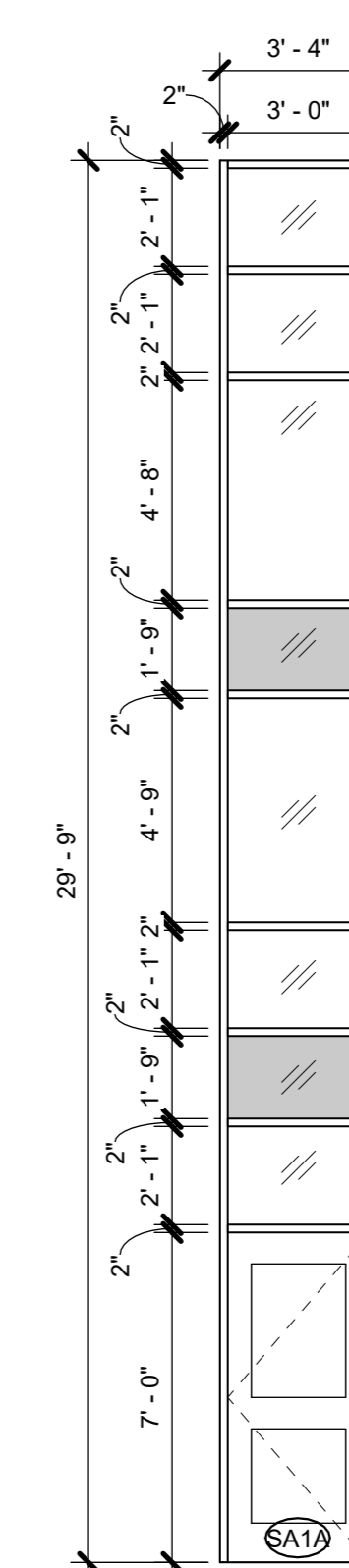
1R WINDOW TYPE 1R
1/4" = 1'-0"



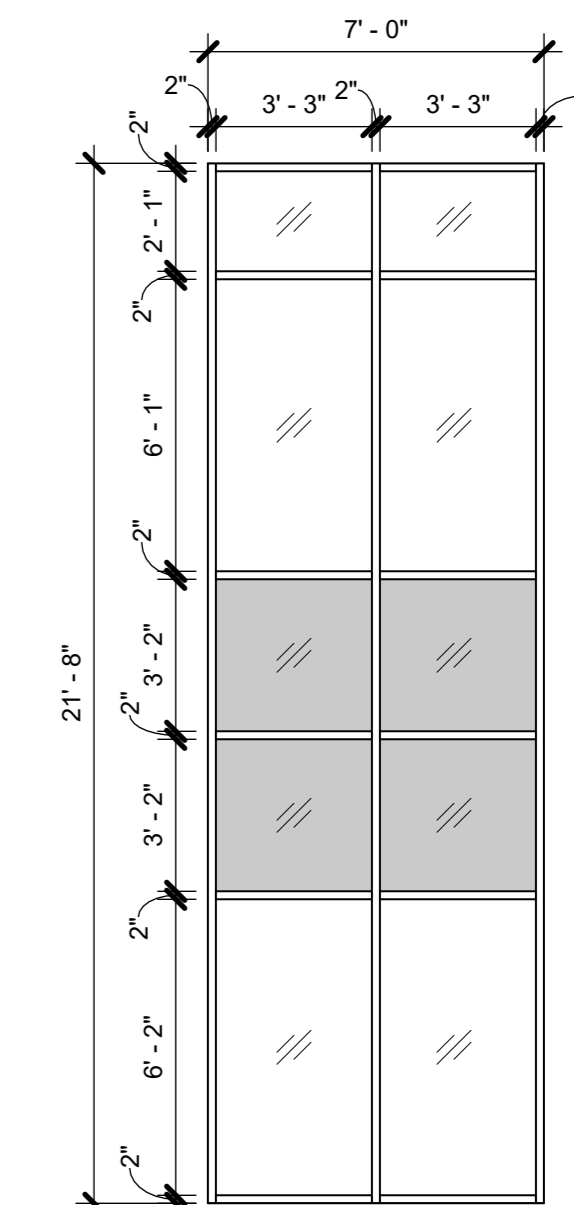
1P WINDOW TYPE 1P
1/4" = 1'-0"



1Z WINDOW TYPE 1Z
1/4" = 1'-0"



1Y WINDOW TYPE 1Y
1/4" = 1'-0"



1X WINDOW TYPE 1X
1/4" = 1'-0"

1st FLOOR EXTERIOR GLAZING

MULTI-STORY EXTERIOR ALUMINUM CURTAIN WALL ASSEMBLIES

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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Mo. Date Issue

Sheet Title

WINDOW TYPES

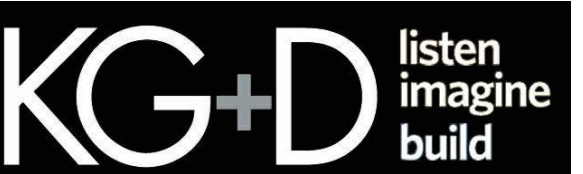
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| Job No. | 2020-1005 | Date | 06/01/2020 |
| Scale | AS NOTED | Drawn / Checked | - / - |
| Sheet Number | | | |

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

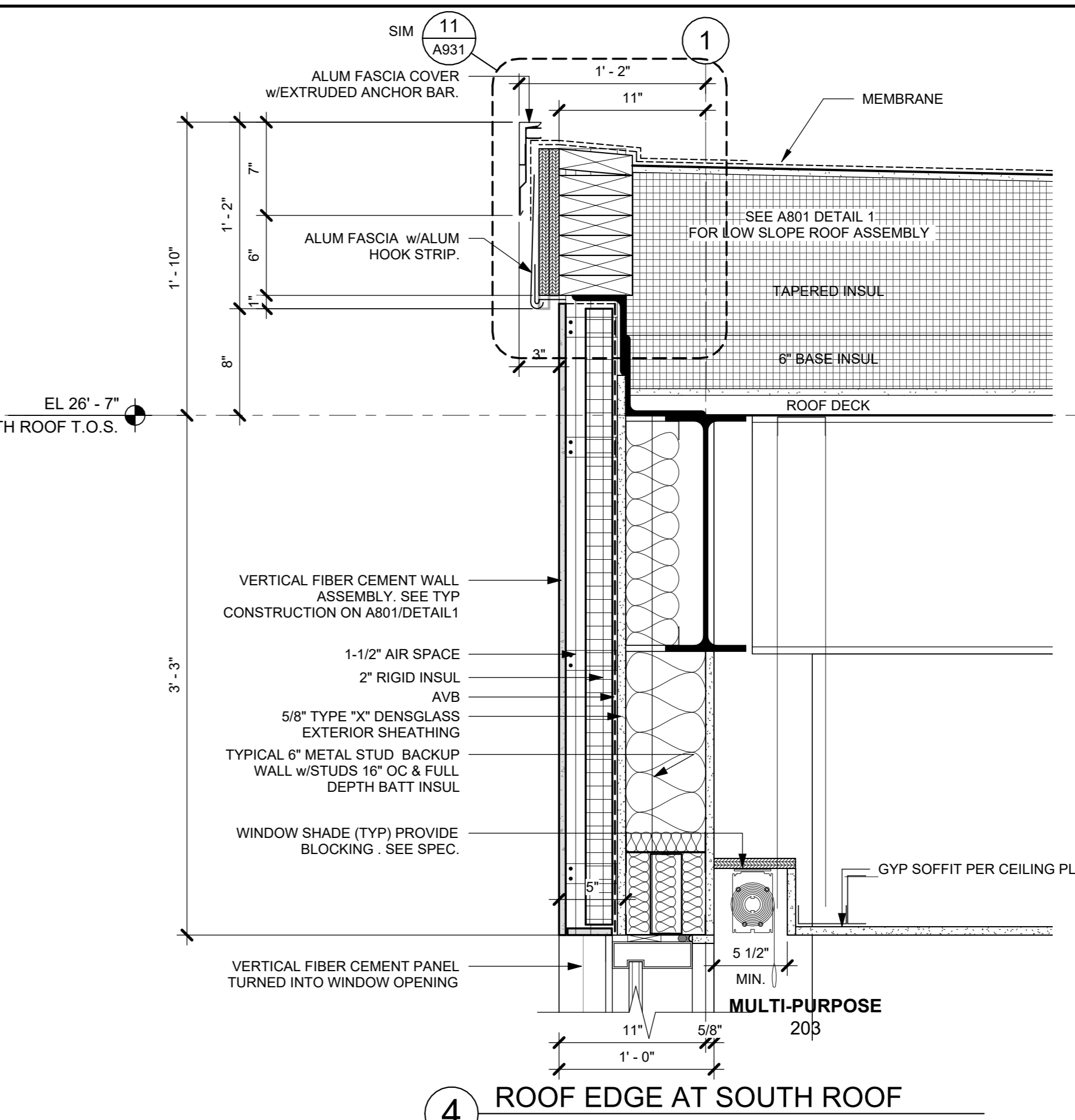
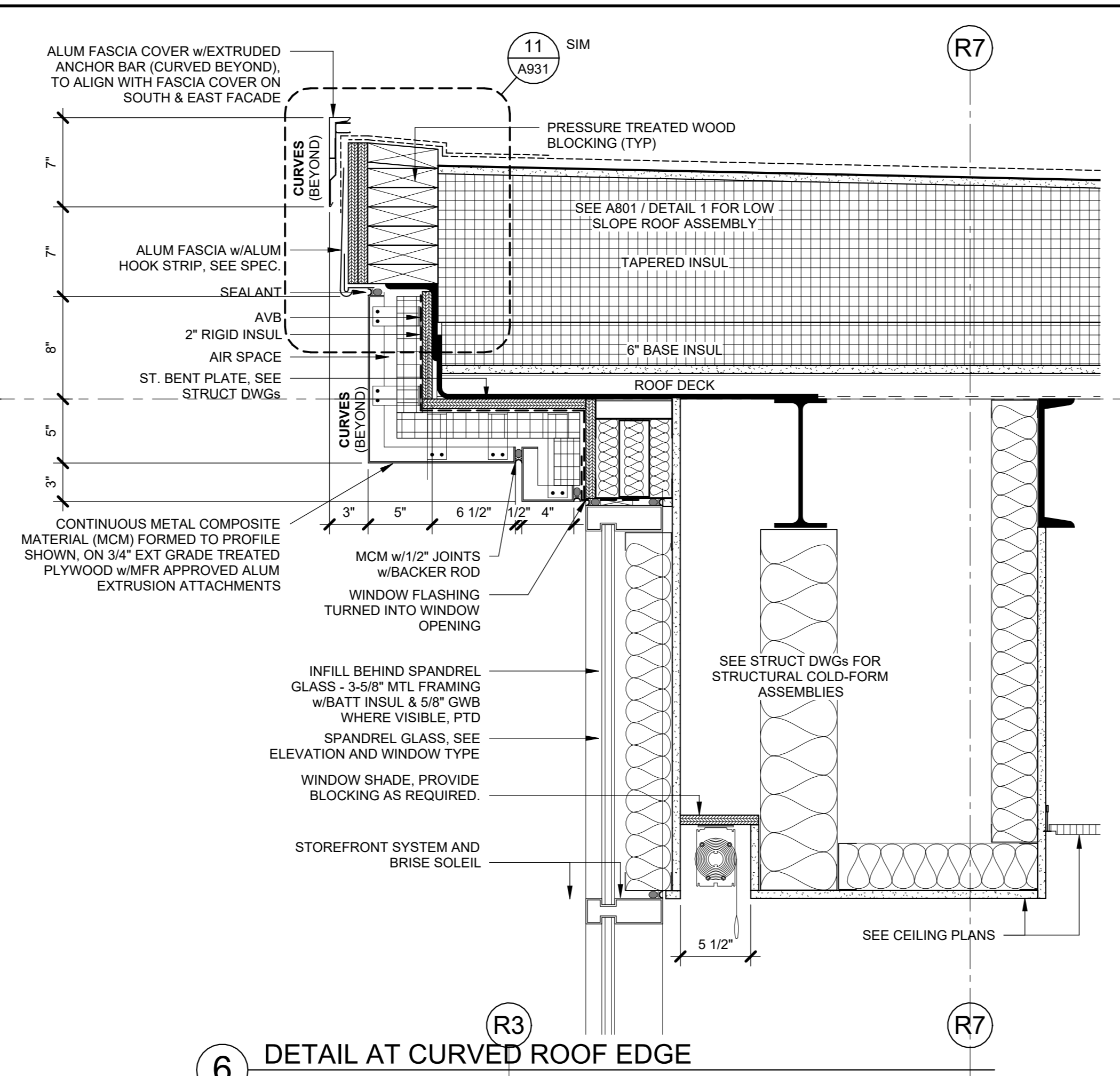
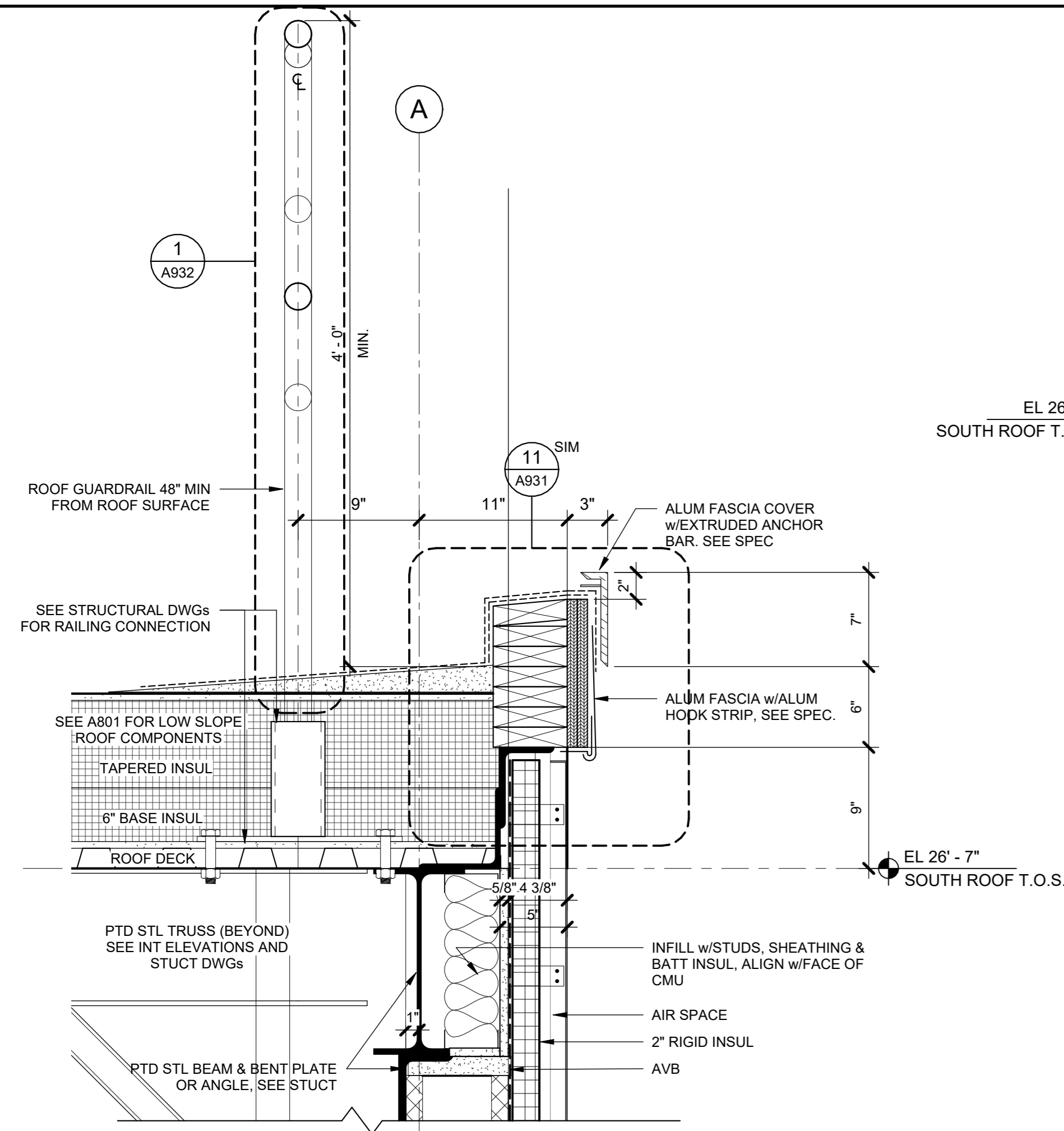
Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



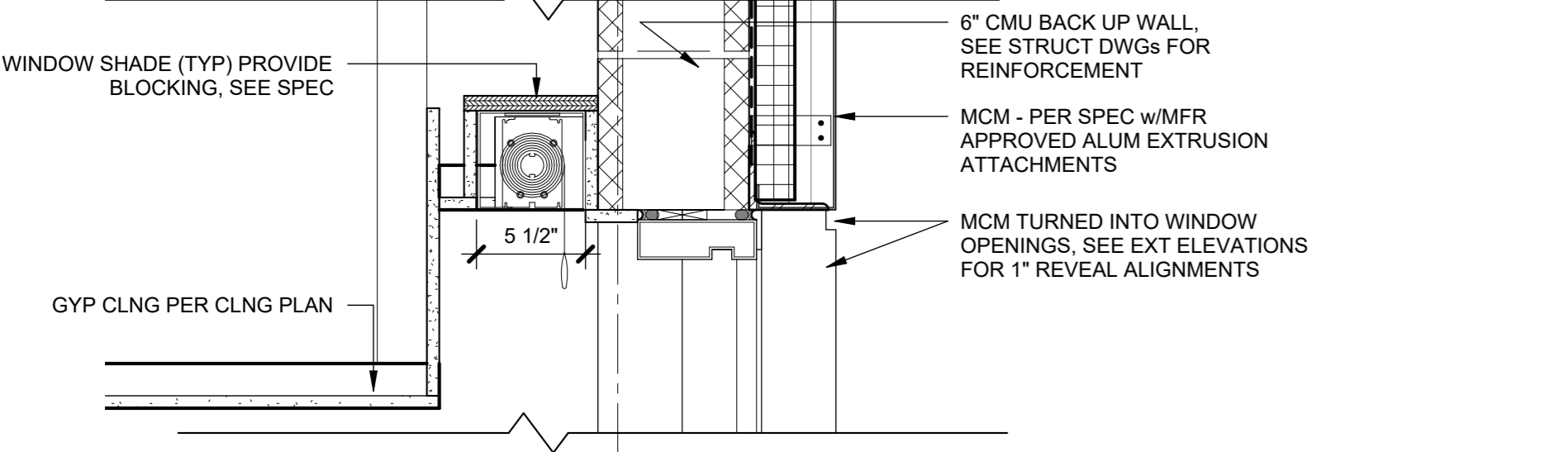
KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

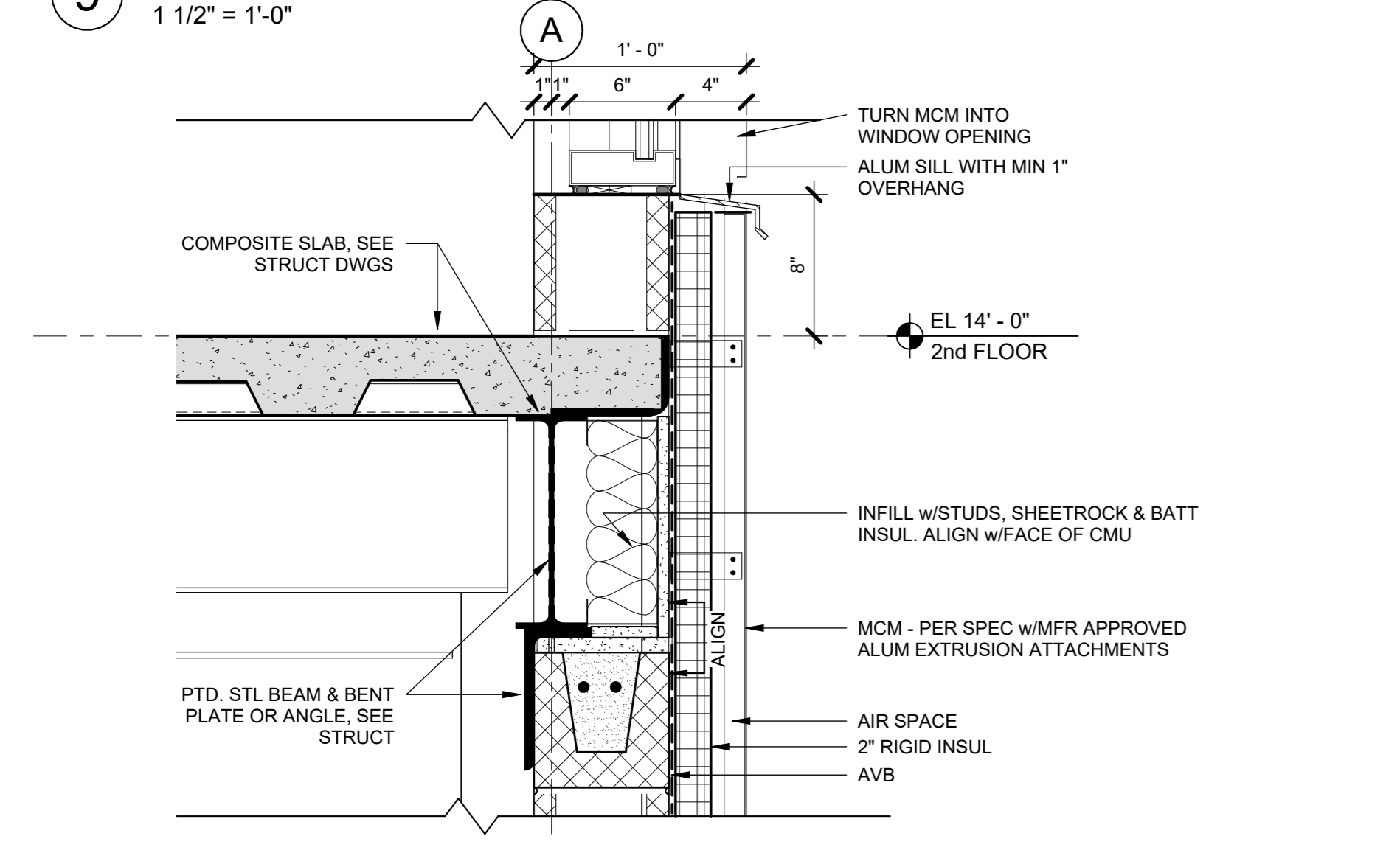


6 DETAIL AT CURVED ROOF EDGE
1 1/2" = 1'-0"

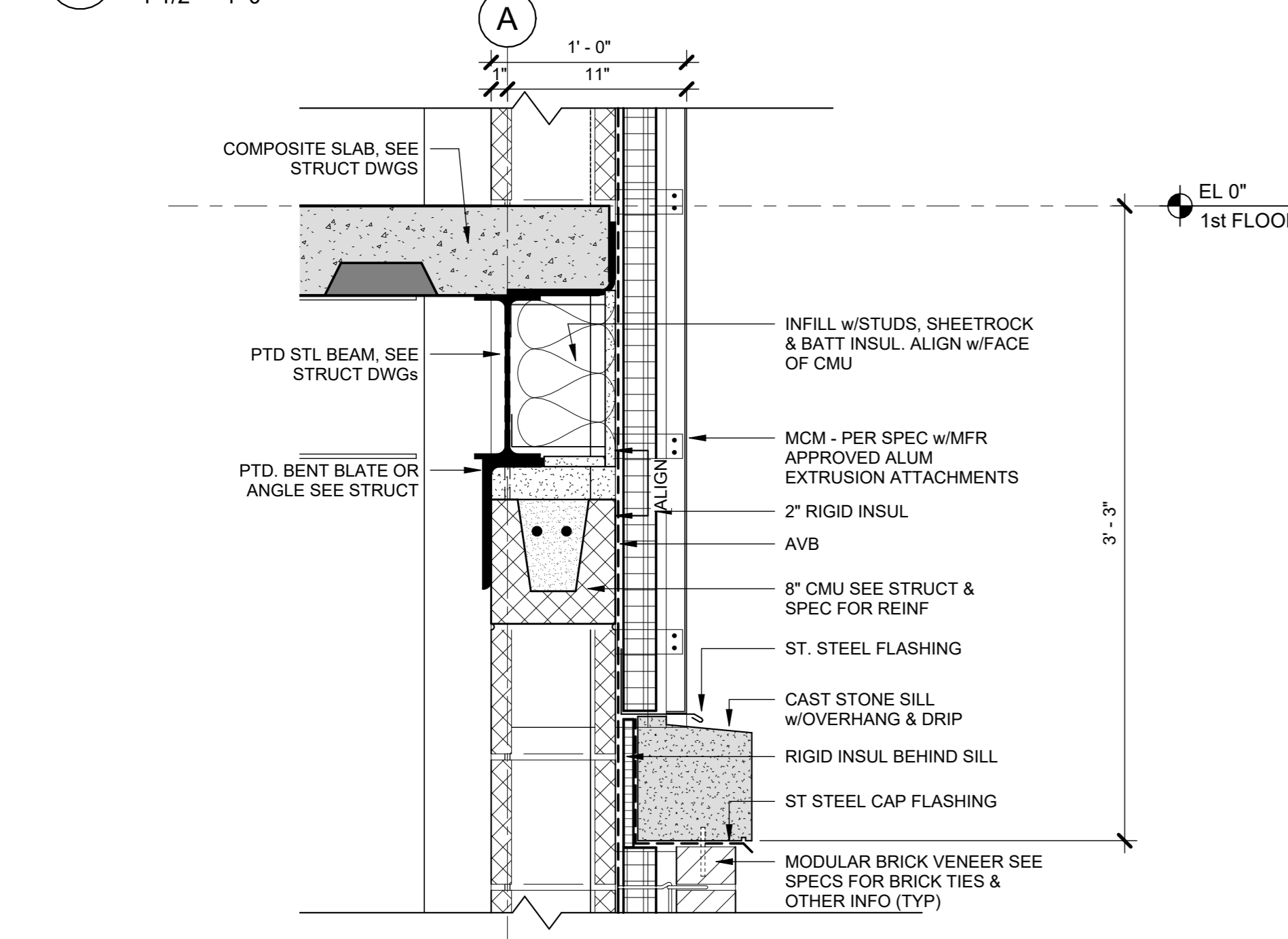
4 ROOF EDGE AT SOUTH ROOF
1 1/2" = 1'-0"



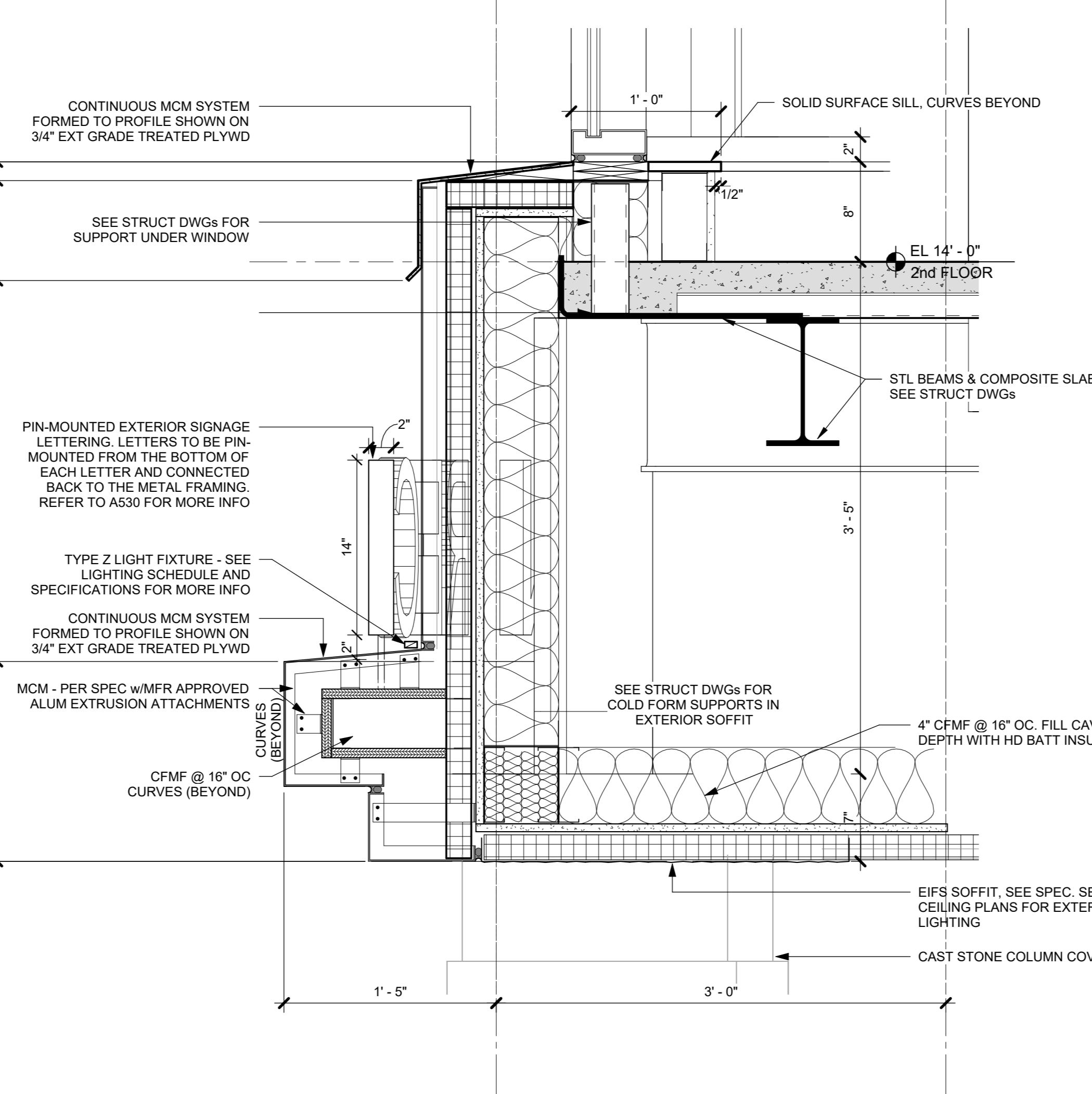
9 WALL SECTION AT WEST TRACK - Callout 1
1 1/2" = 1'-0"



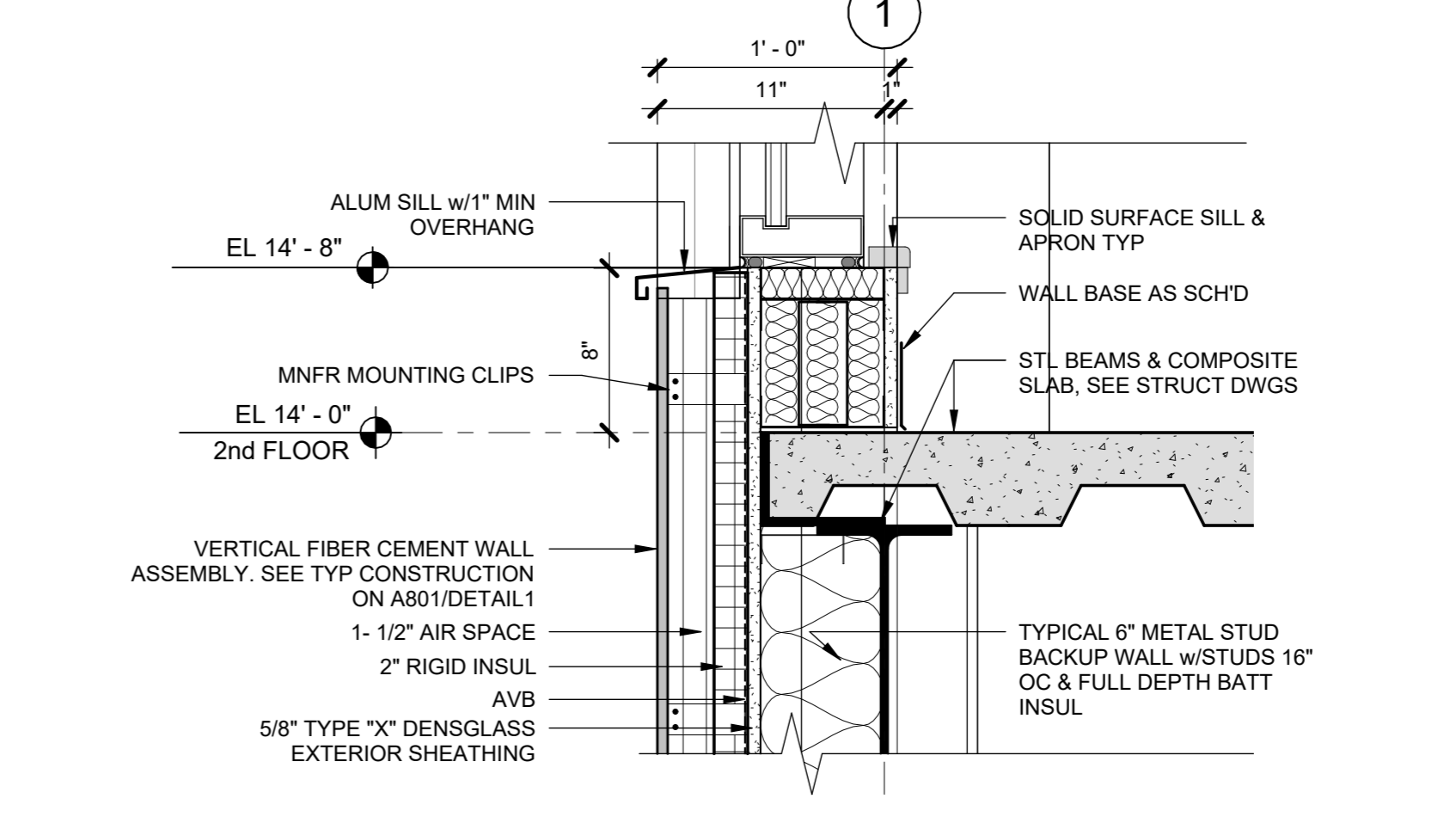
8 WALL SECTION AT WEST TRACK - Callout 2
1 1/2" = 1'-0"



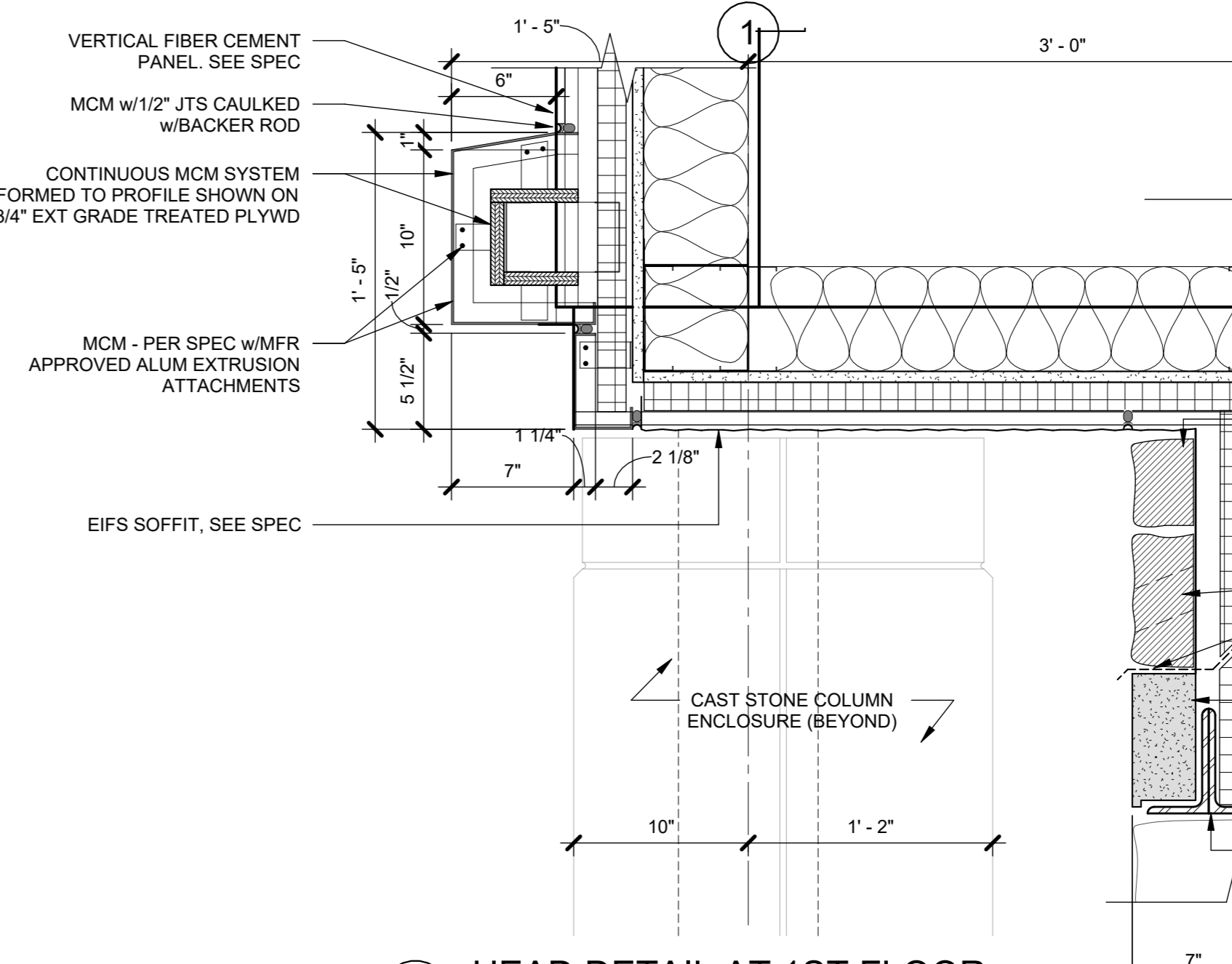
7 WALL SECTION AT WEST TRACK - Callout 3
1 1/2" = 1'-0"



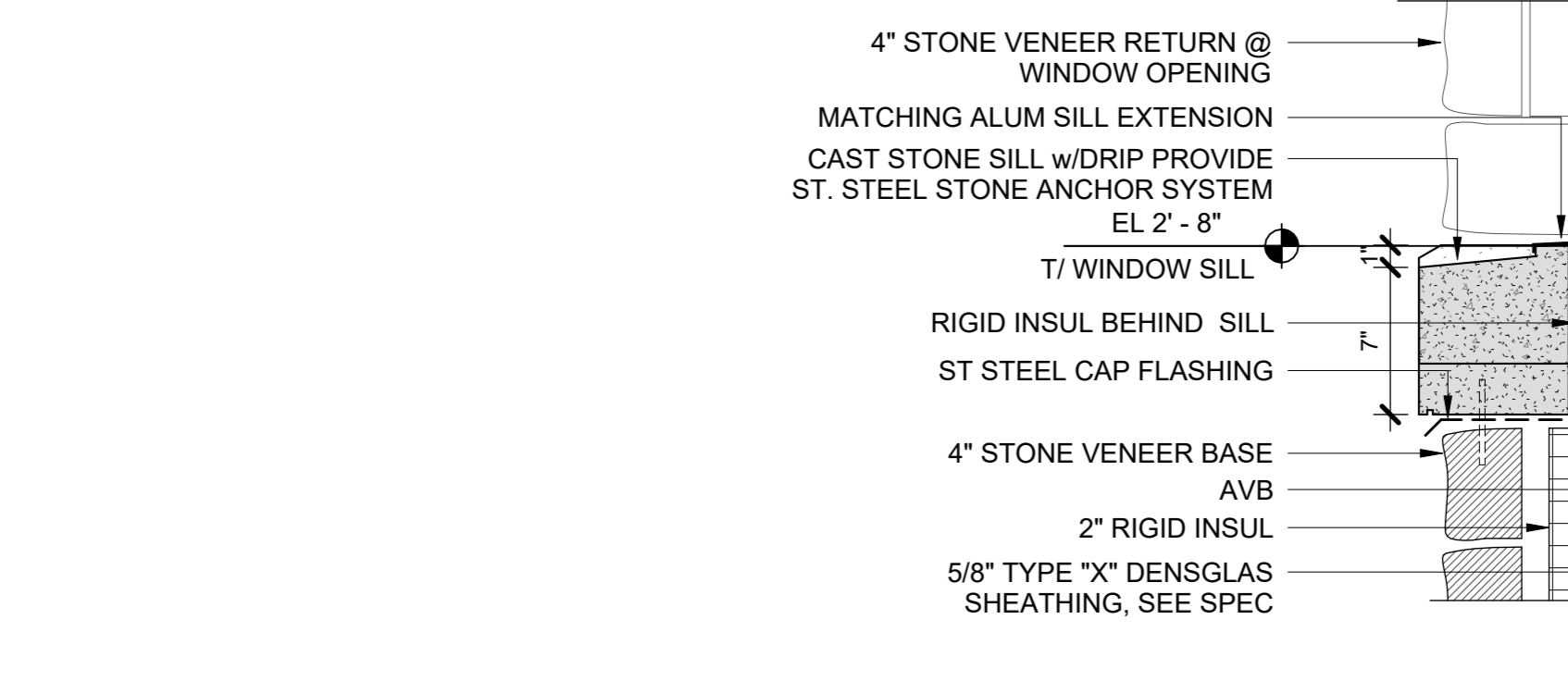
5 DETAIL AT ENTRANCE SIGNAGE
1 1/2" = 1'-0"



3 SILL DETAIL AT 2ND FLOOR
1 1/2" = 1'-0"



2 HEAD DETAIL AT 1ST FLOOR
1 1/2" = 1'-0"



1 SILL DETAIL AT 1ST FLOOR
1 1/2" = 1'-0"

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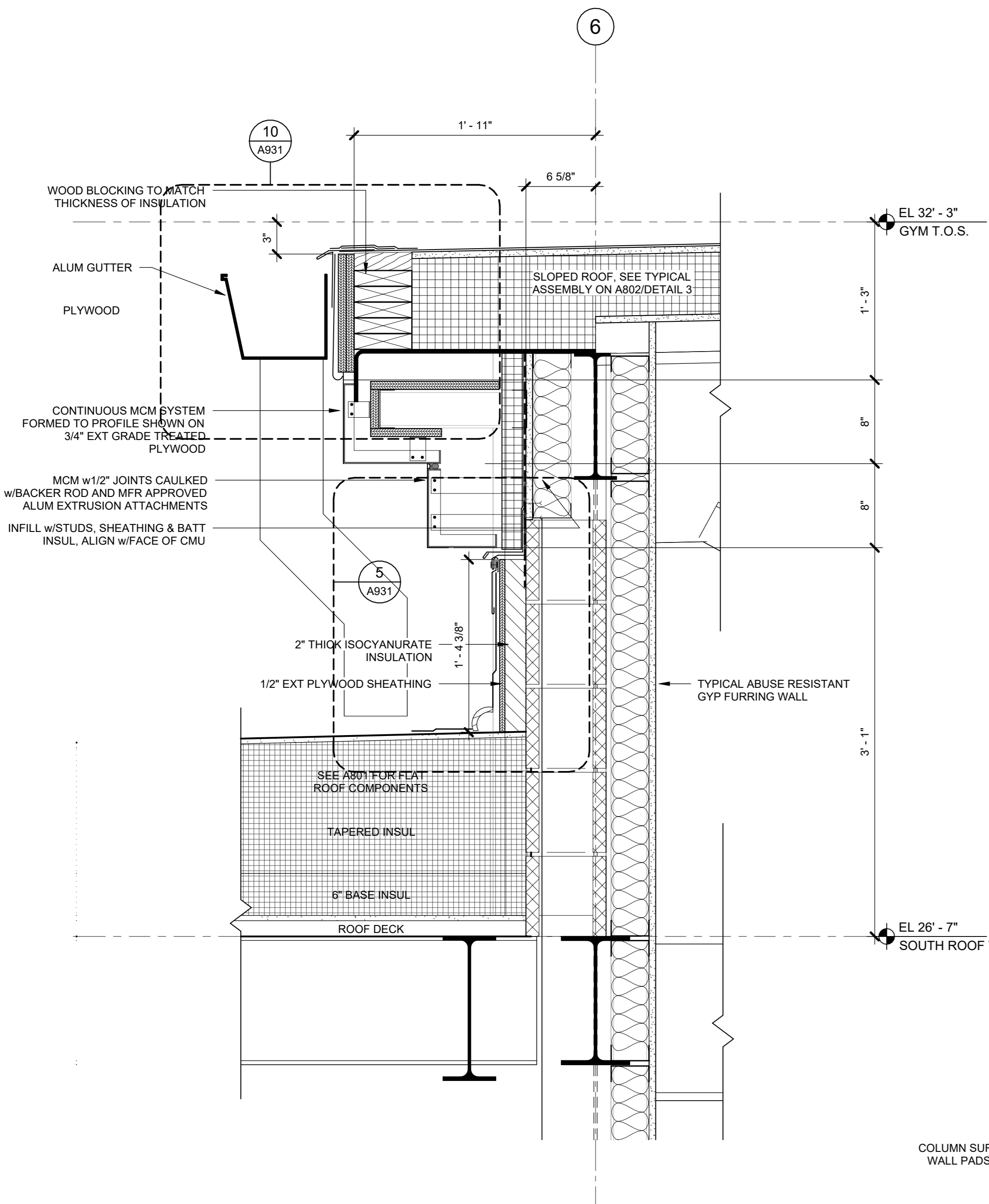
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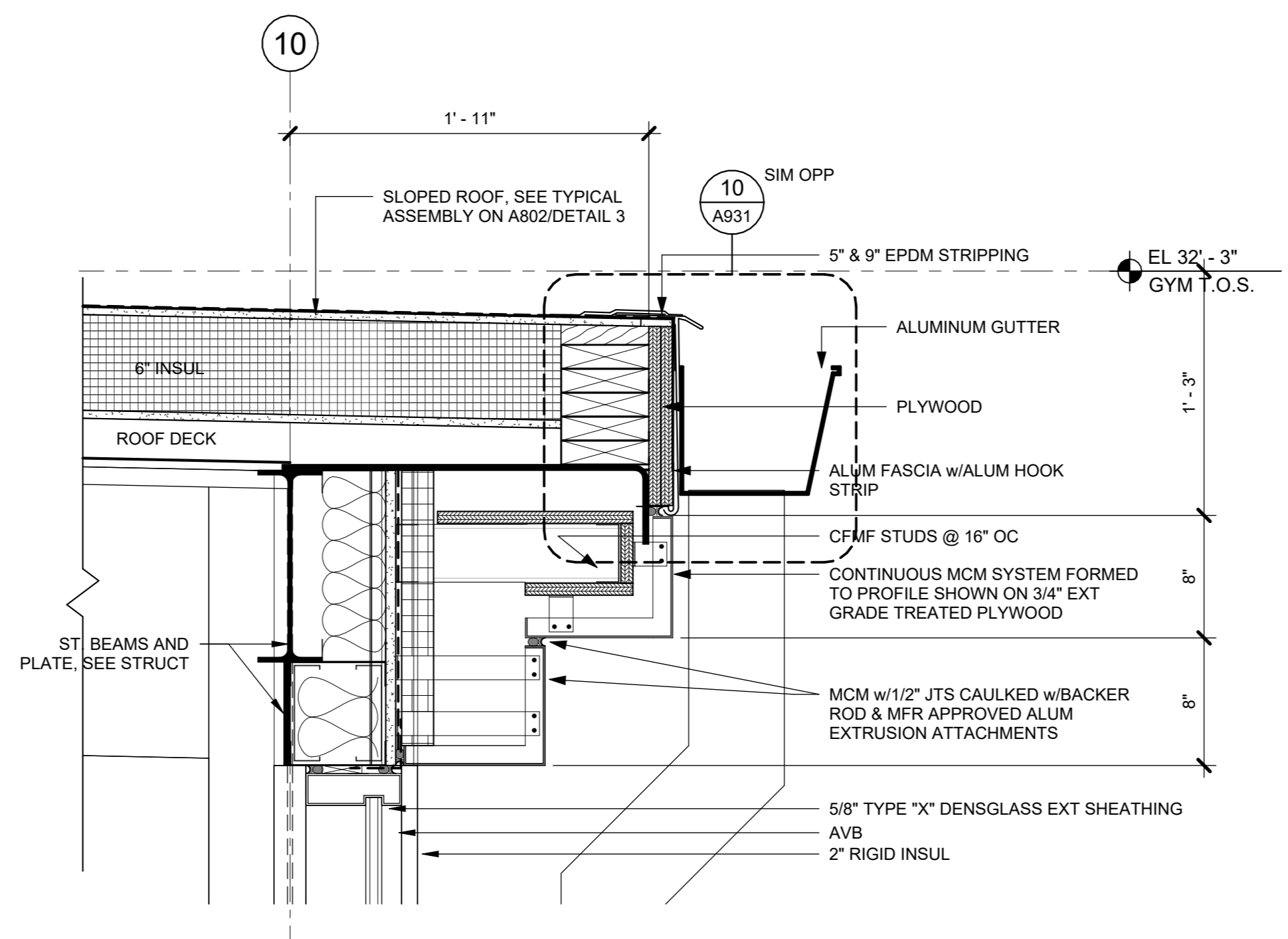
**EXTERIOR
DETAILS**

| | | | |
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| Job No. | 2020-1005 | Date | 12/24/23 |
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| Sheet Number | | | |

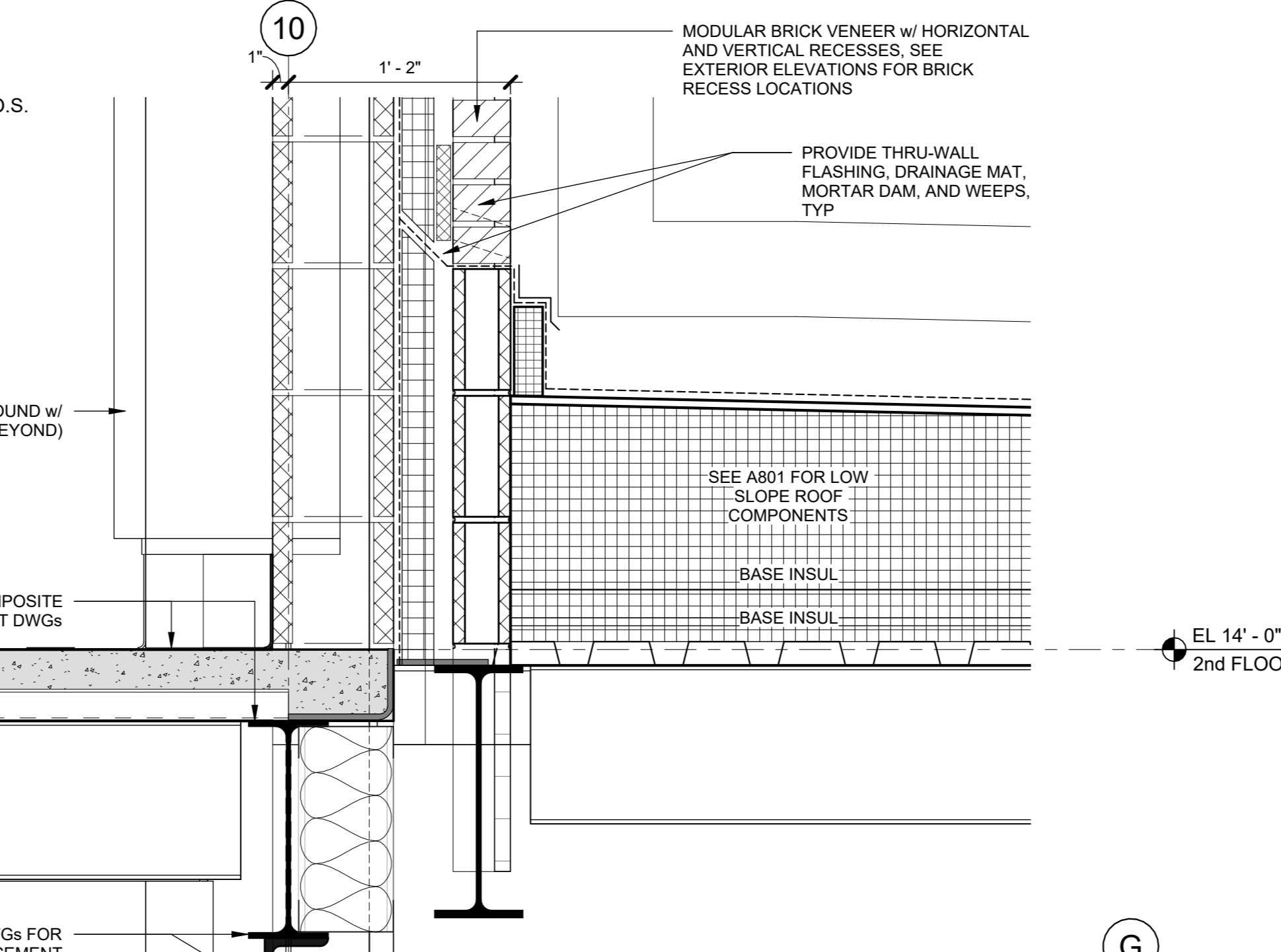
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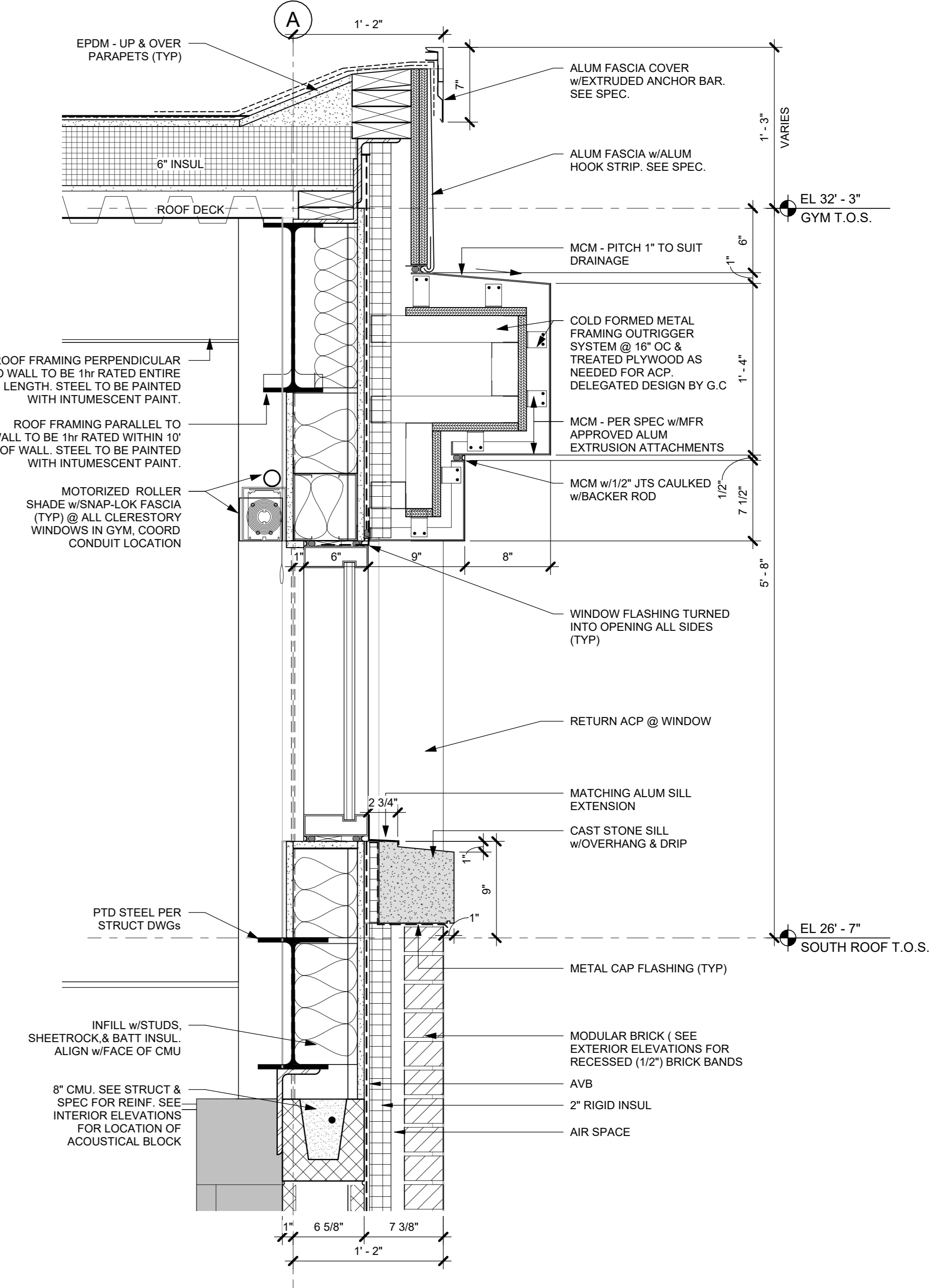
8 Section 59 - Callout 1
1 1/2" = 1'-0"



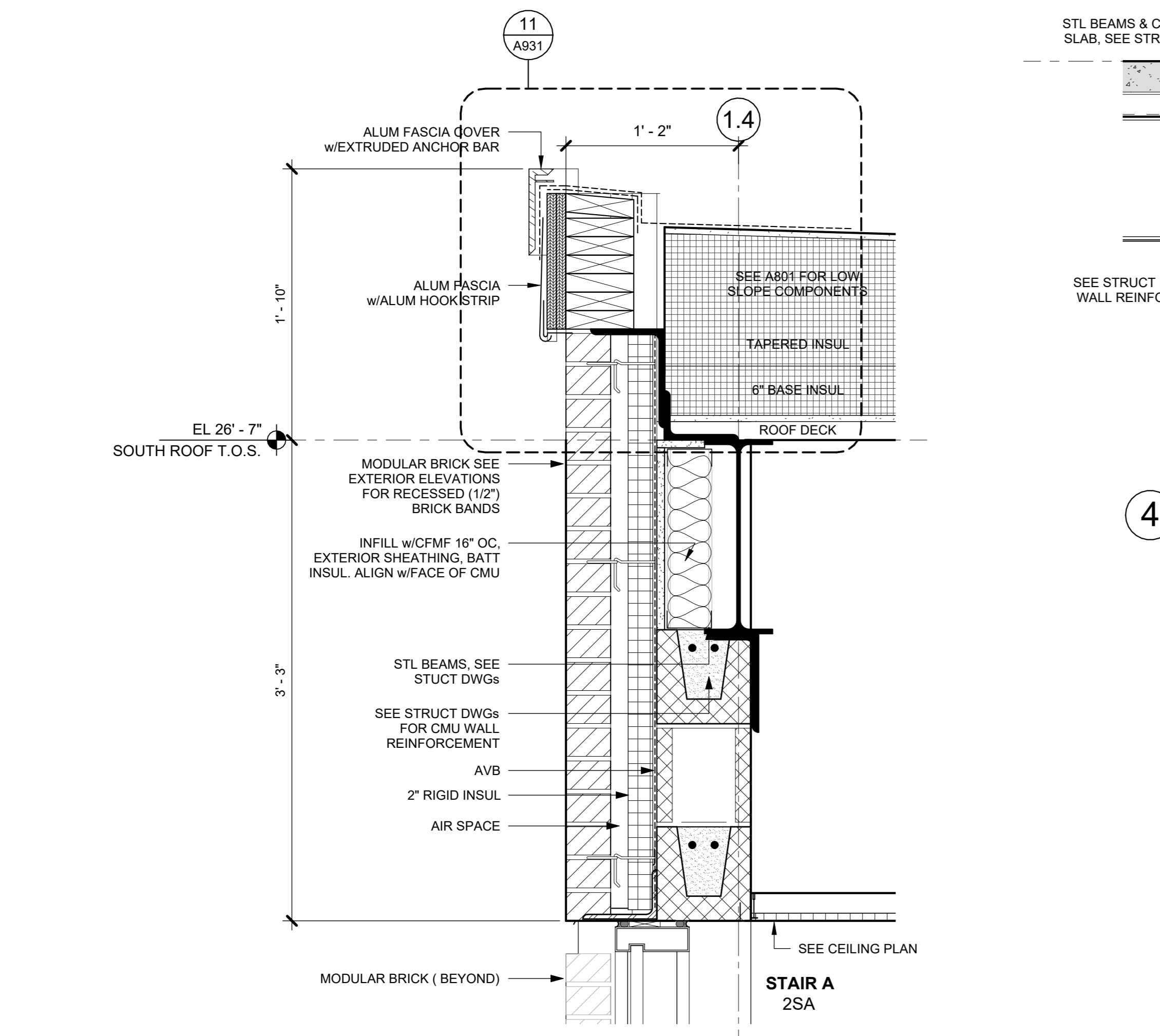
5 WALL SECTION AT GYM NORTH - Callout 2
1 1/2" = 1'-0"



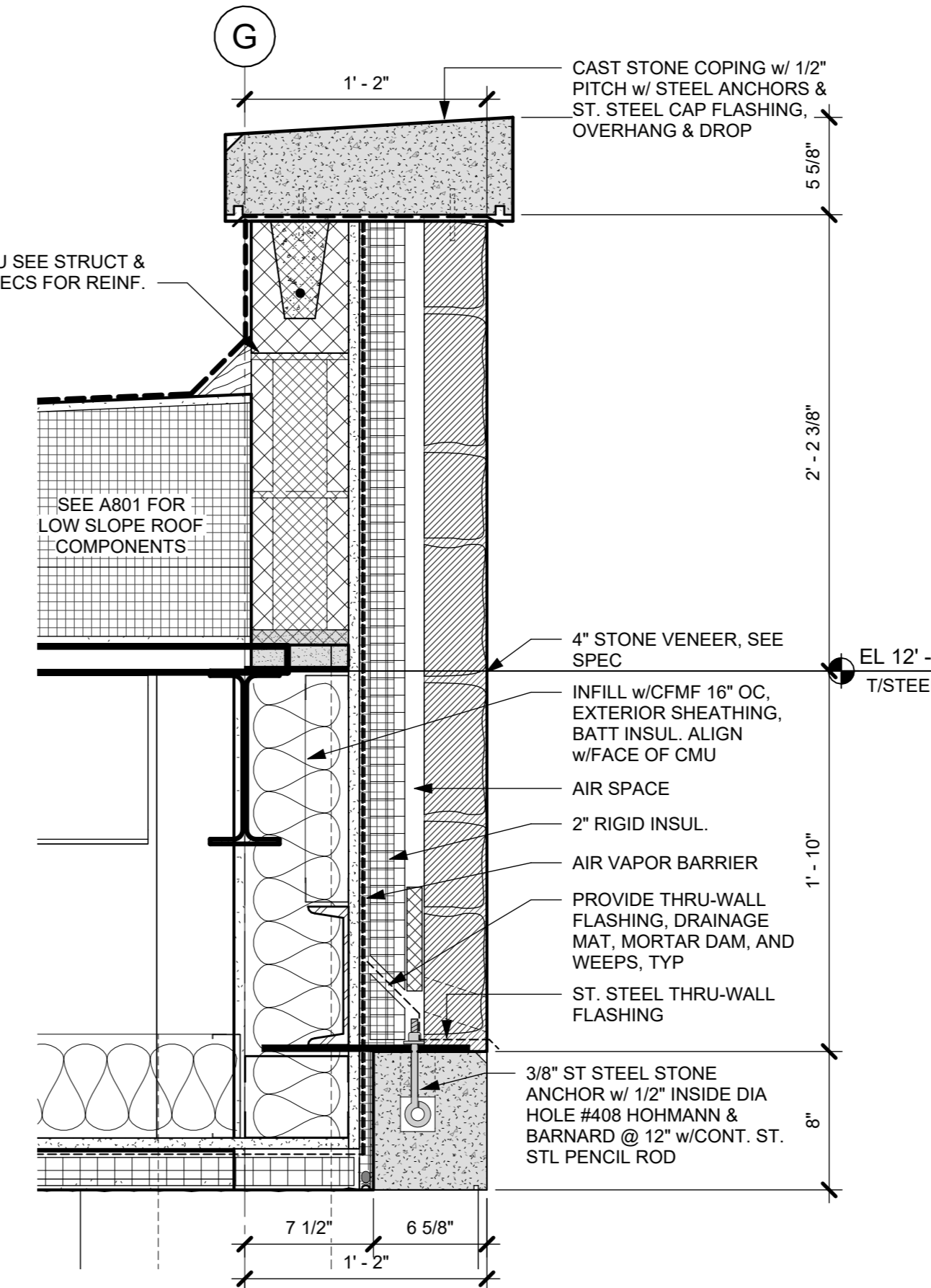
4 WALL SECTION AT GYM NORTH - Callout 1
1 1/2" = 1'-0"



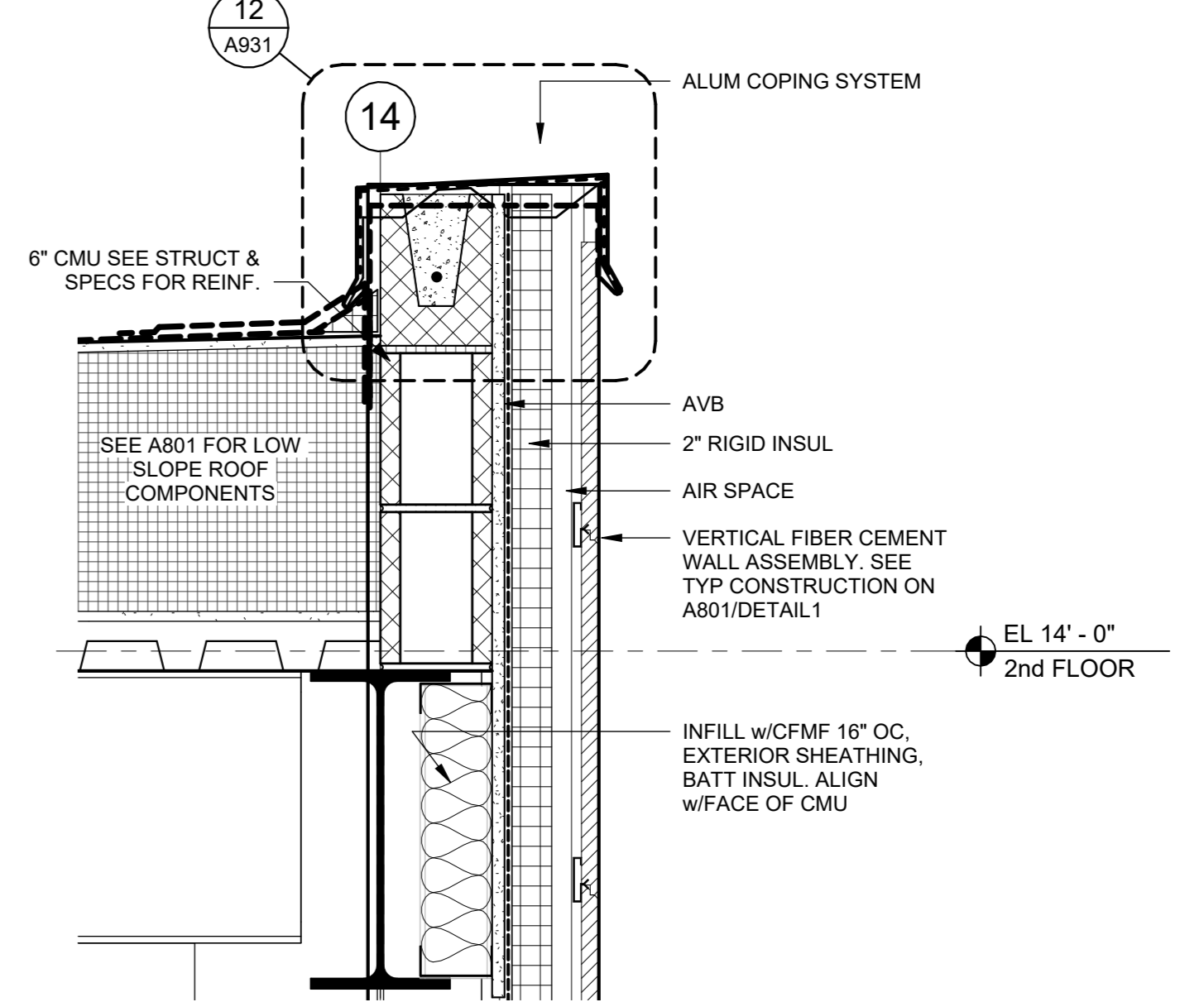
2 WALL SECTION AT GYM WEST - Callout 1
1 1/2" = 1'-0"



1 WALL SECTION AT STAIR A CURTAIN WALL - Callout 1
1 1/2" = 1'-0"



6 WALL SECTION AT NORTH ENTRANCE - Callout 1
1 1/2" = 1'-0"



7 WALL SECTION AT FITNESS AREA - Callout 1
1 1/2" = 1'-0"

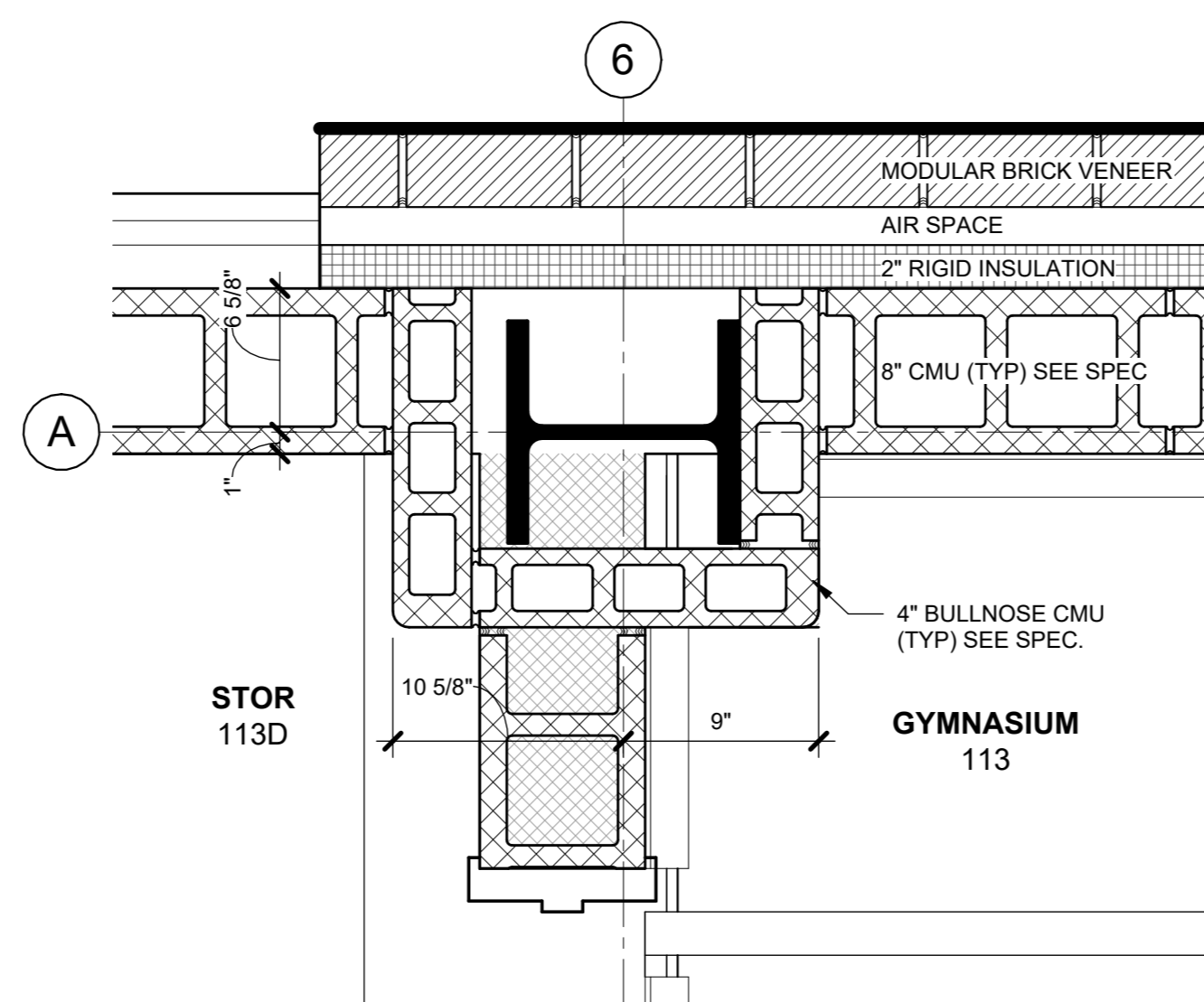
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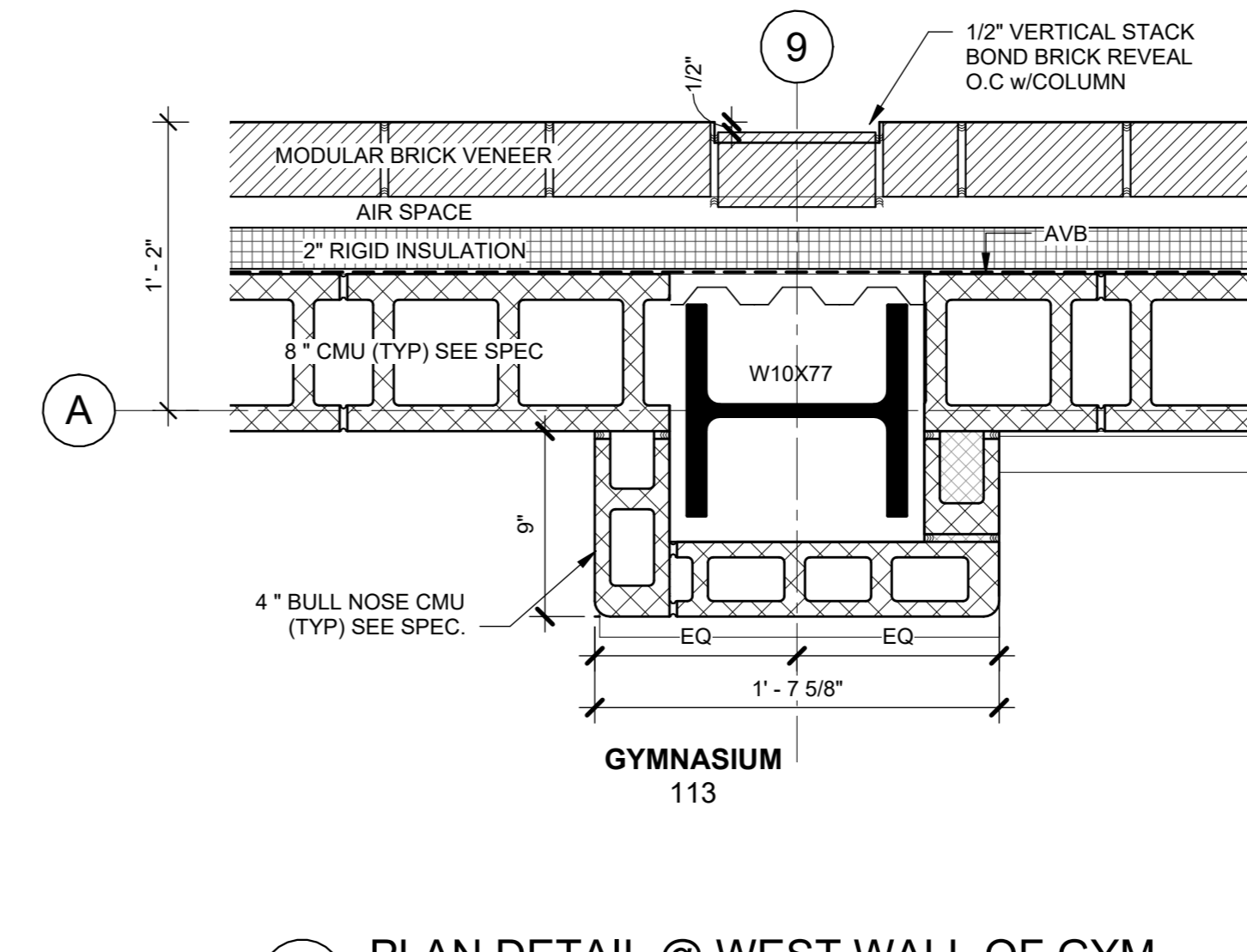
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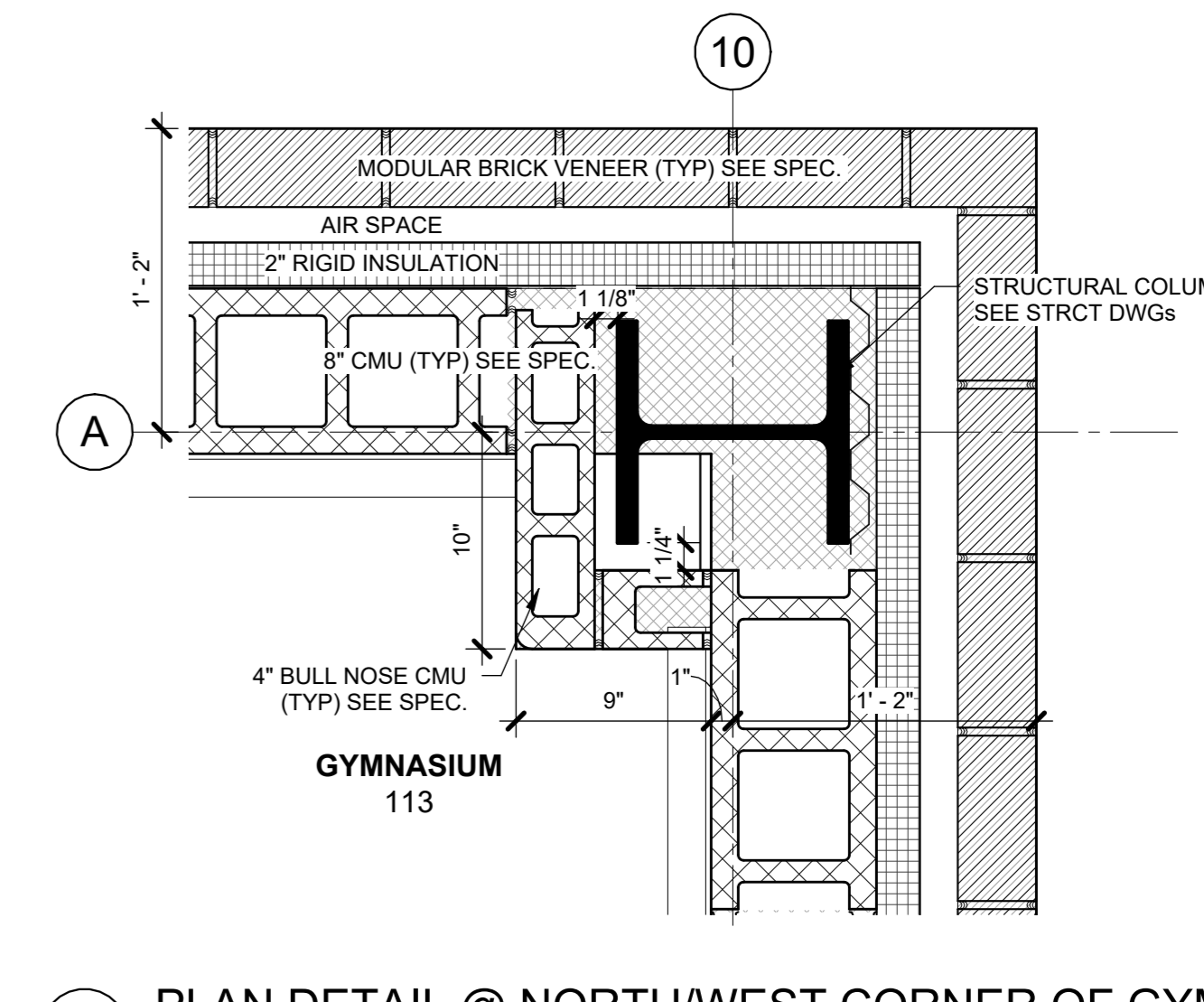
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| A922 | |



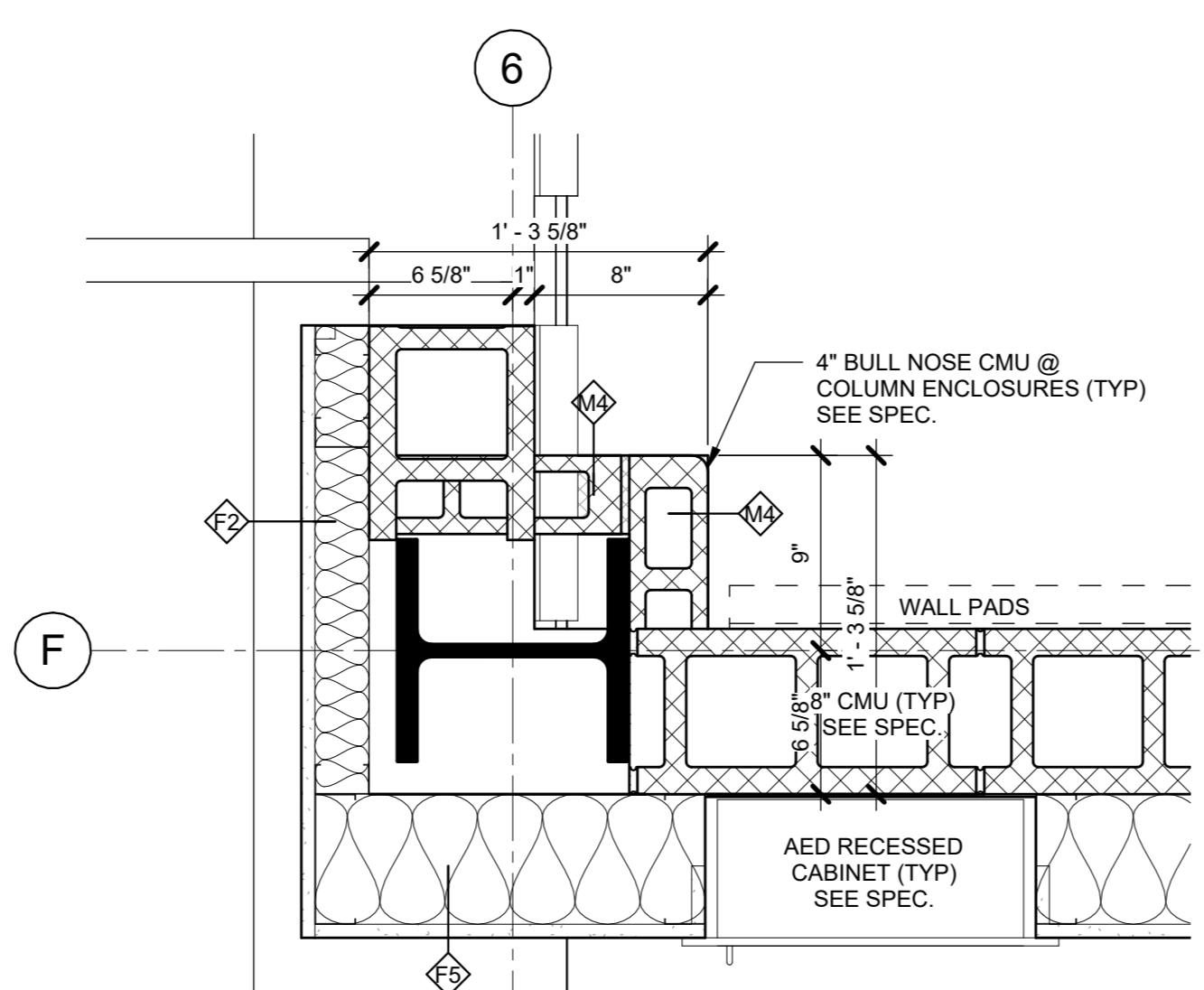
6 PLAN DETAIL @ WEST WALL OF GYM
1 1/2" = 1'-0"



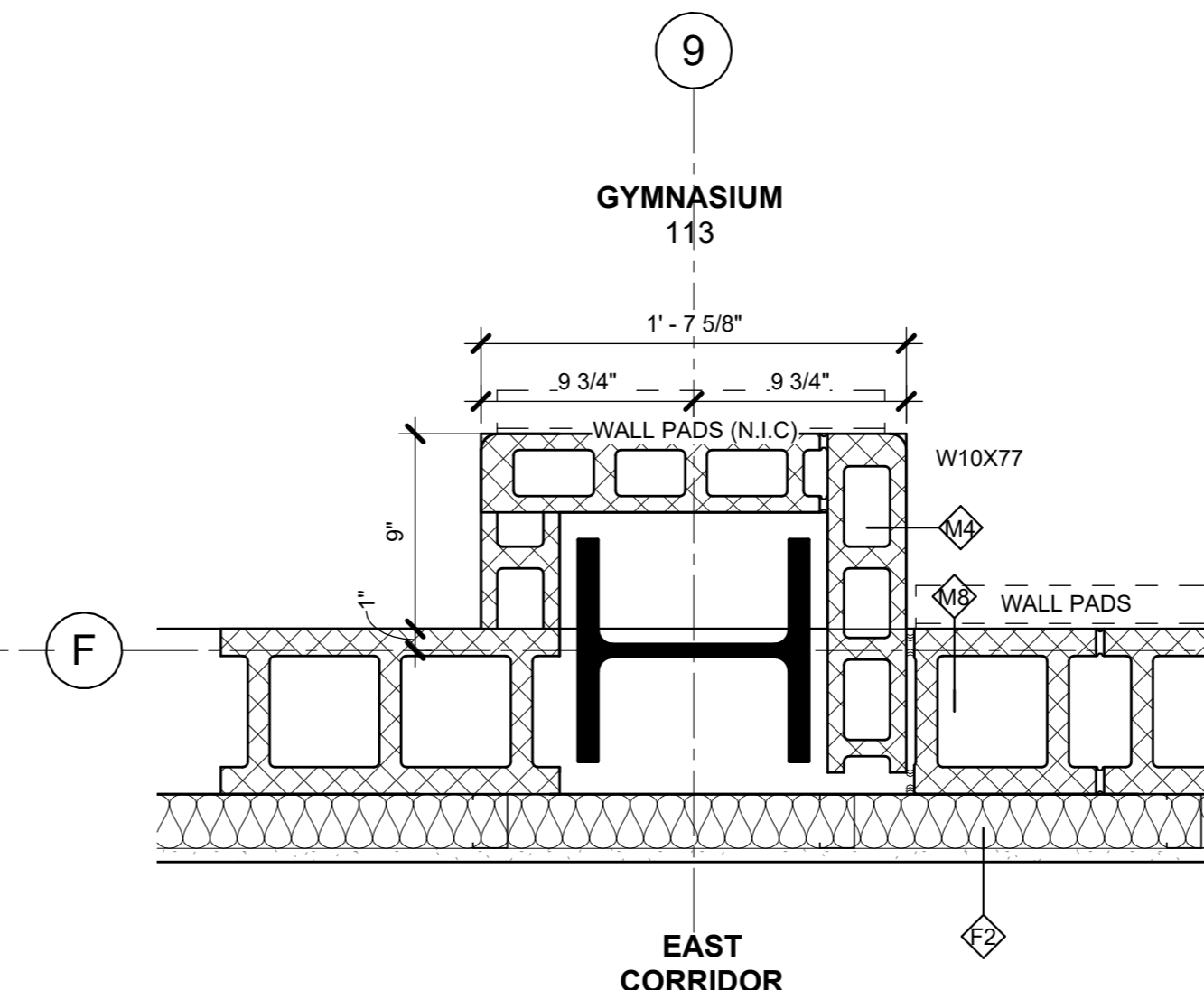
9 PLAN DETAIL @ EAST WALL OF GYM
1 1/2" = 1'-0"



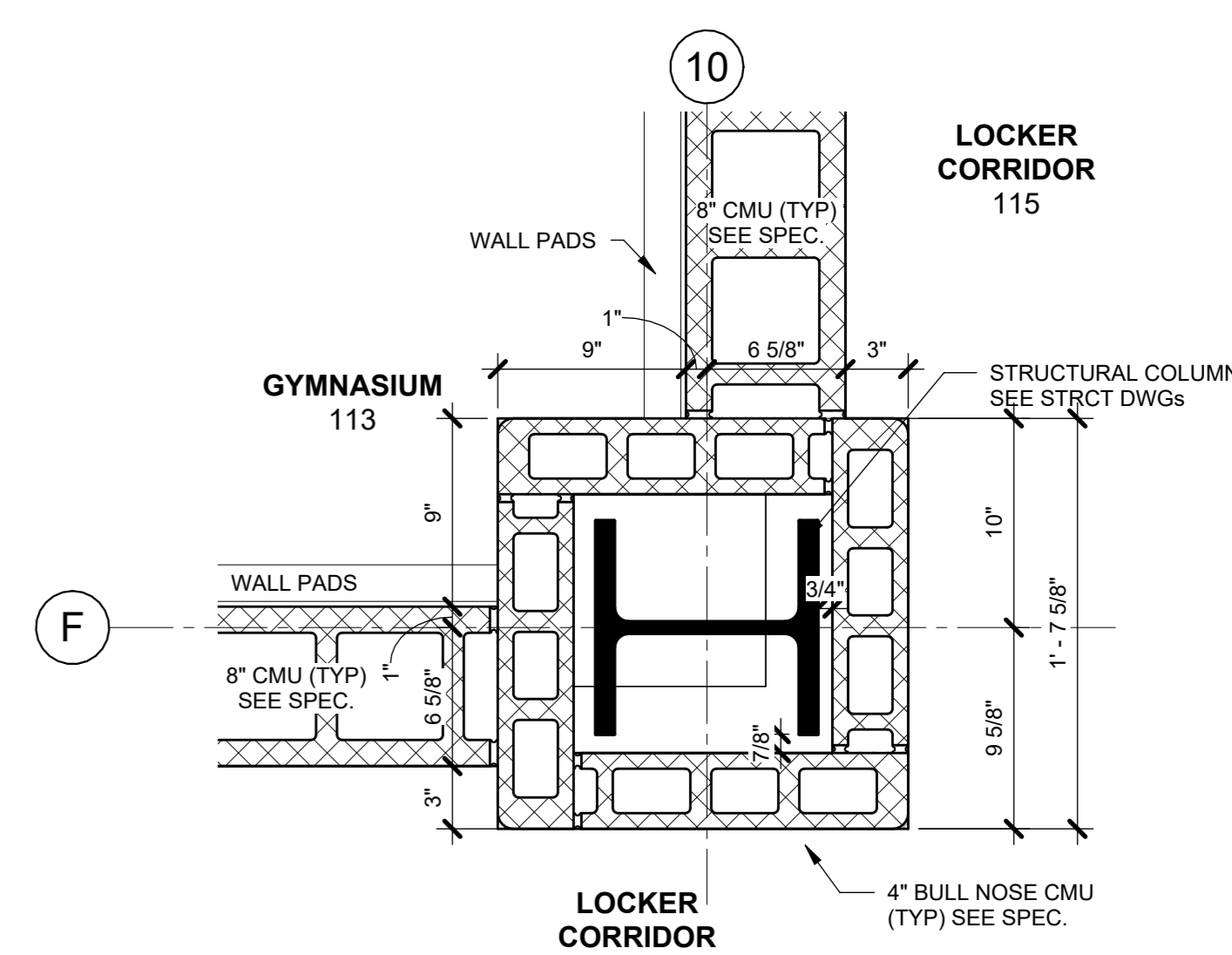
8 PLAN DETAIL @ NORTH/WEST CORNER OF GYM
1 1/2" = 1'-0"



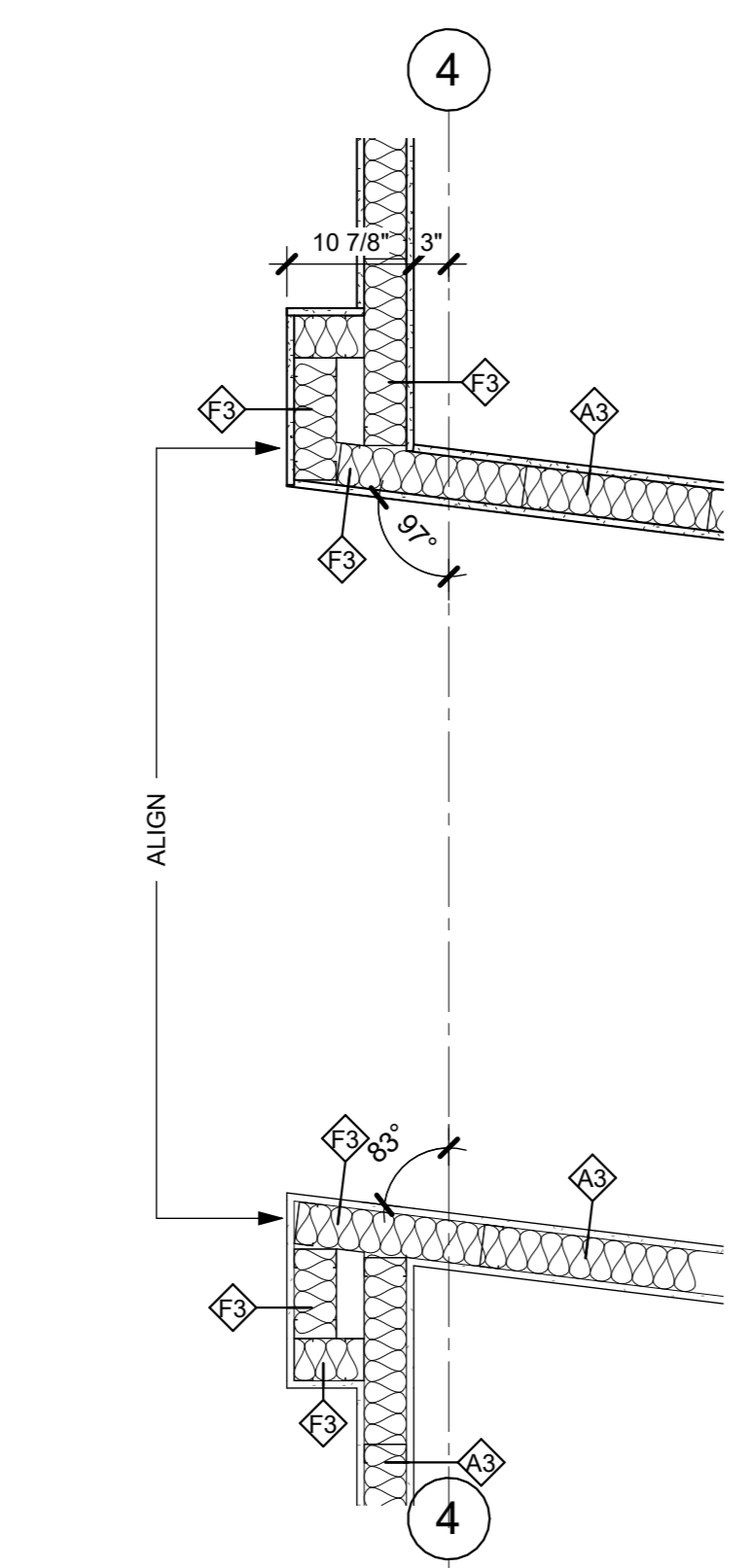
10 PLAN DETAIL @ SOUTH/EAST WALL OF GYM
1 1/2" = 1'-0"



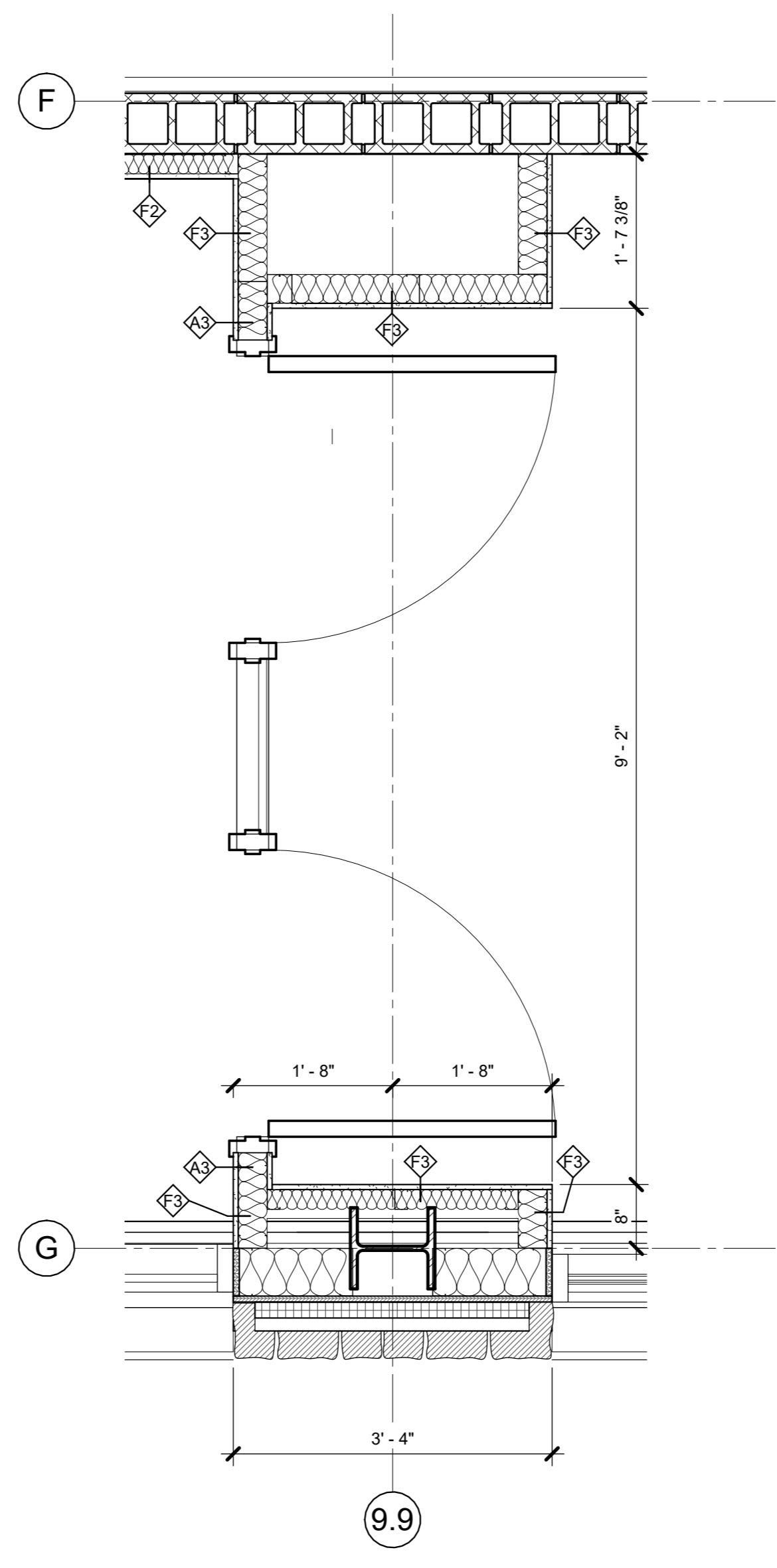
9 PLAN DETAIL @ EAST WALL OF GYM
1 1/2" = 1'-0"



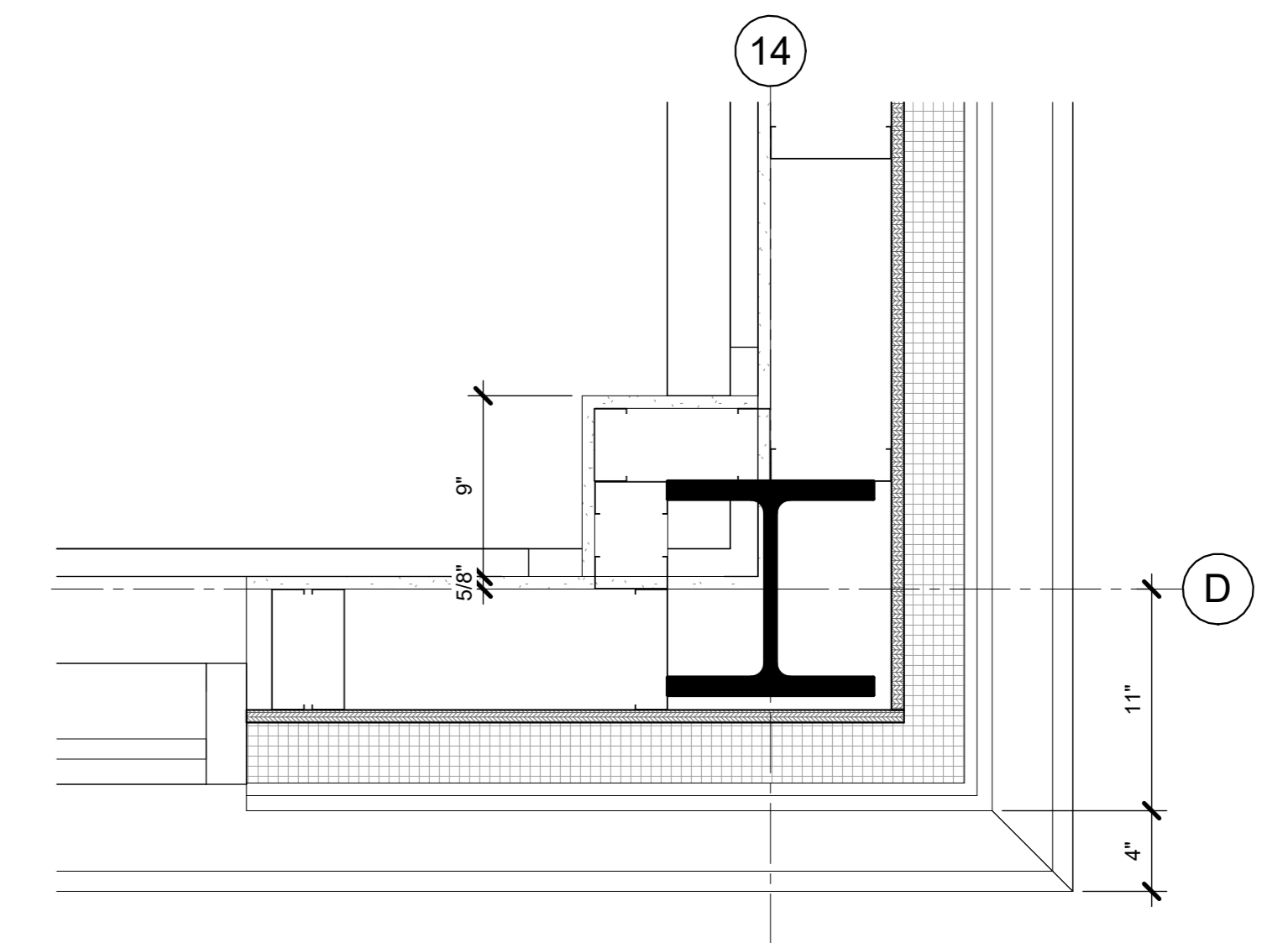
7 PLAN DETAIL @ NORTH/EAST CORNER OF GYM
1 1/2" = 1'-0"



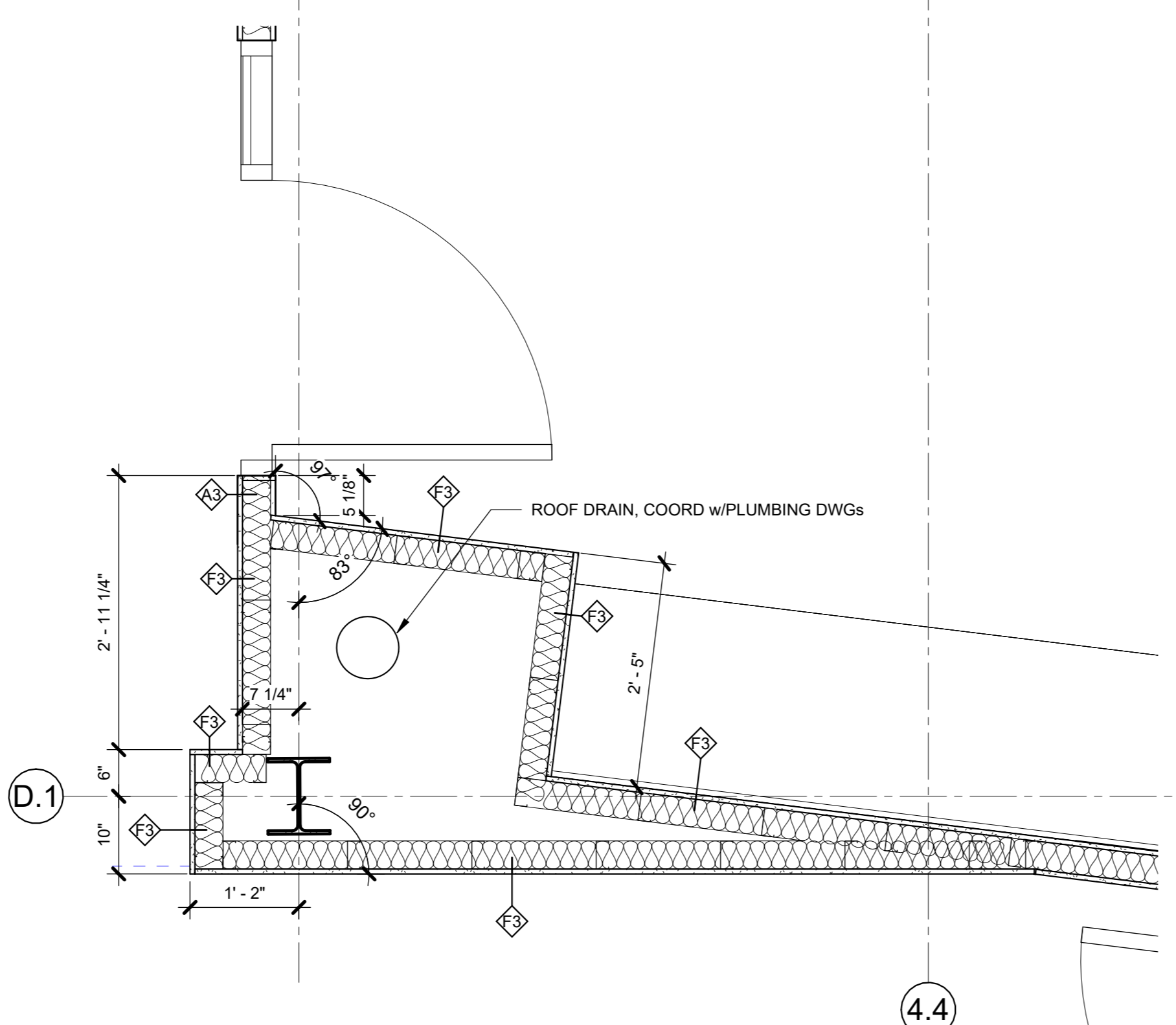
12 1st FL PLAN - Callout 6
3/4" = 1'-0"



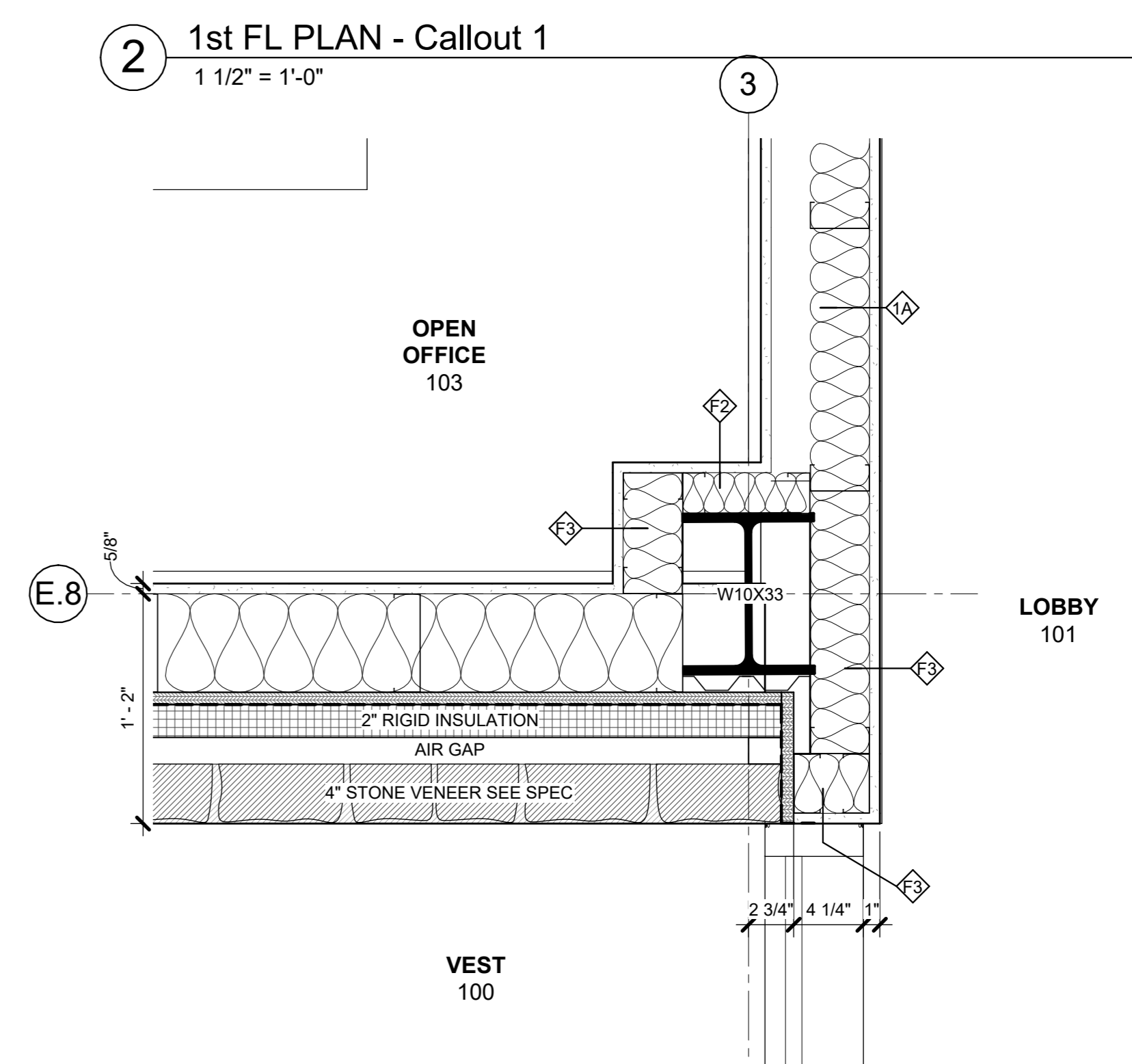
3 1st FL PLAN - Callout 5
3/4" = 1'-0"



2 1st FL PLAN - Callout 1
1 1/2" = 1'-0"



1 COMPUTER/GAMING ENLARGED PLAN 1
3/4" = 1'-0"



4 MAIN OFFICE ENLARGED PLAN - Callout 1
1 1/2" = 1'-0"

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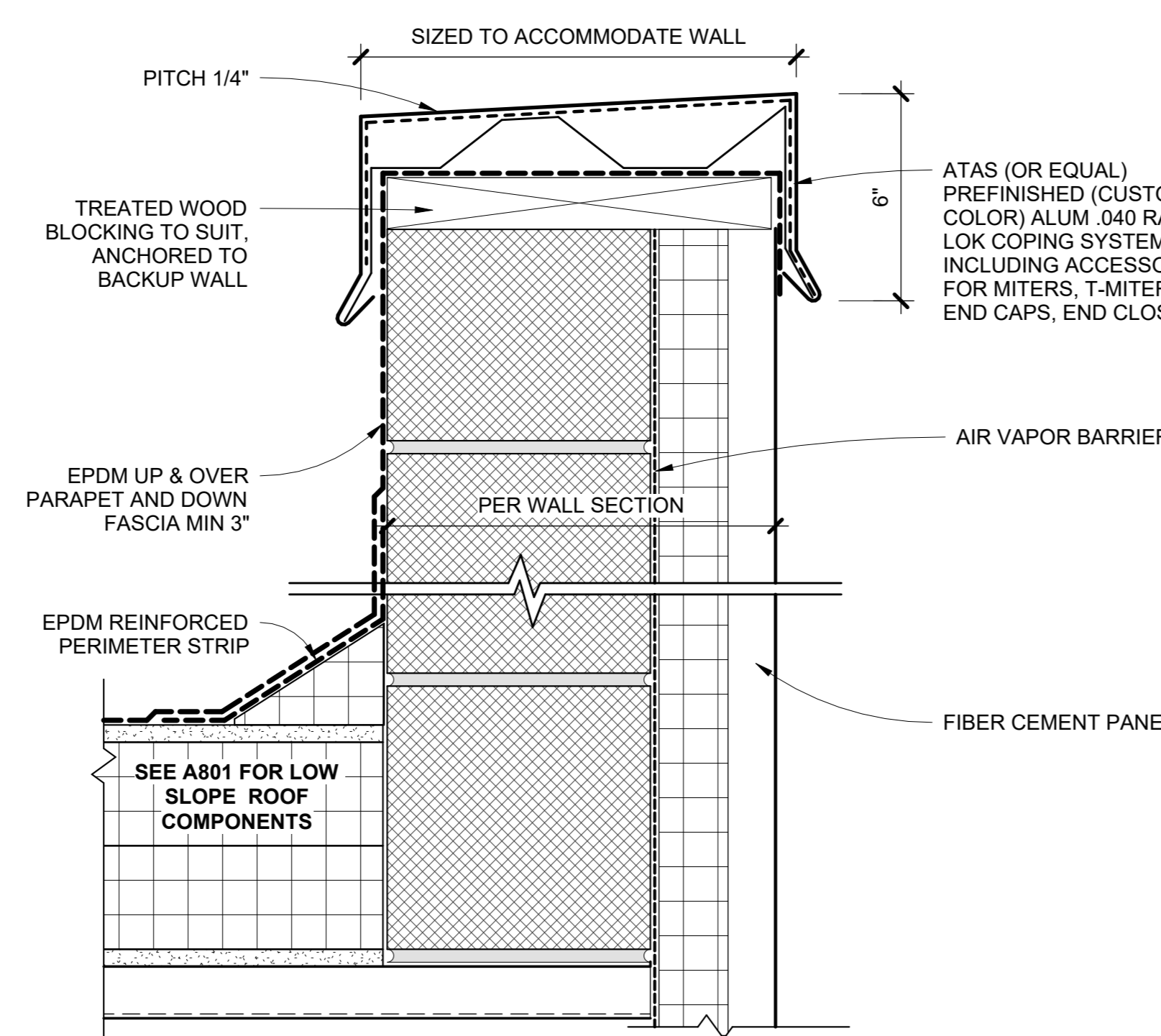
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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

No. Date Issue

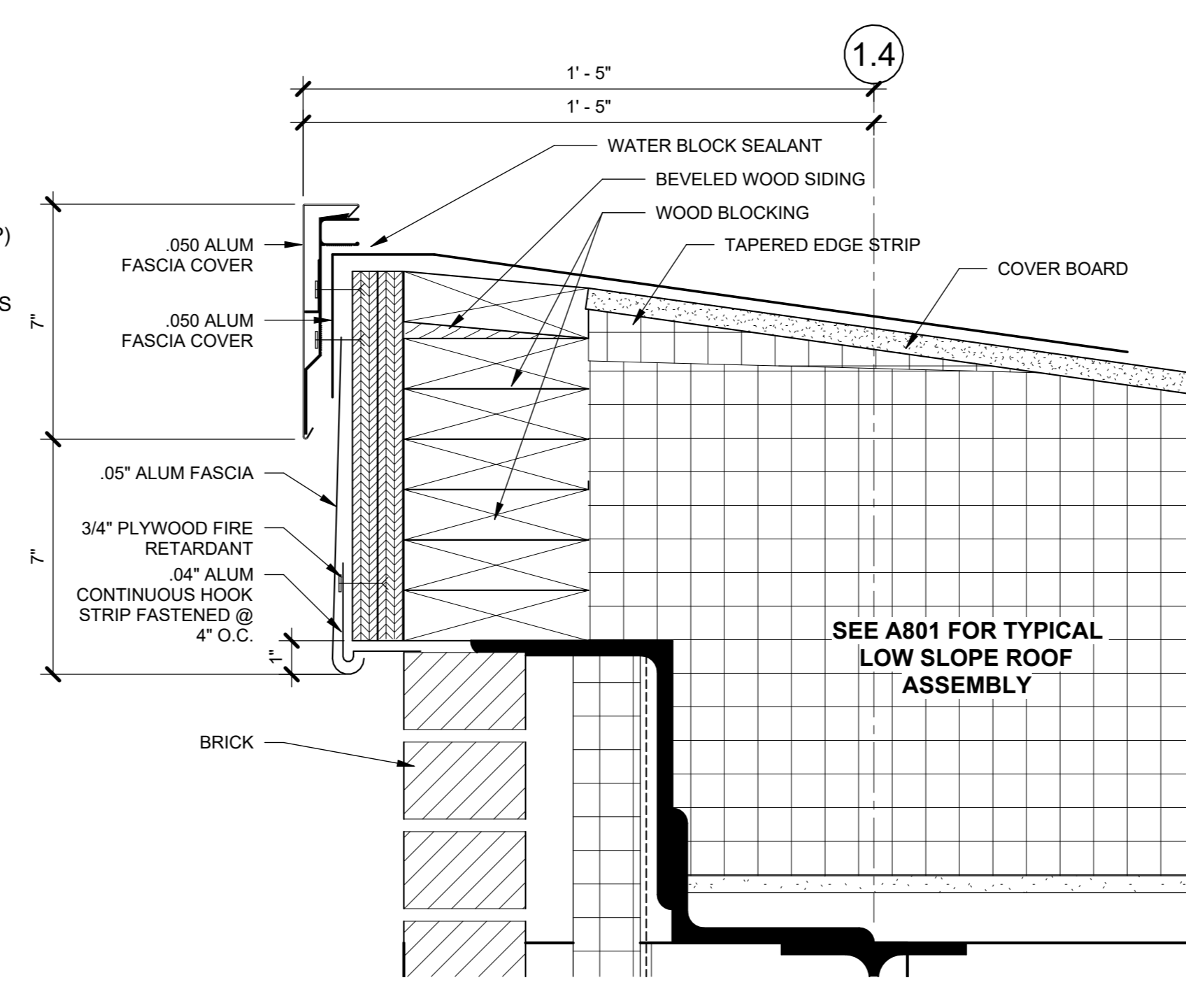
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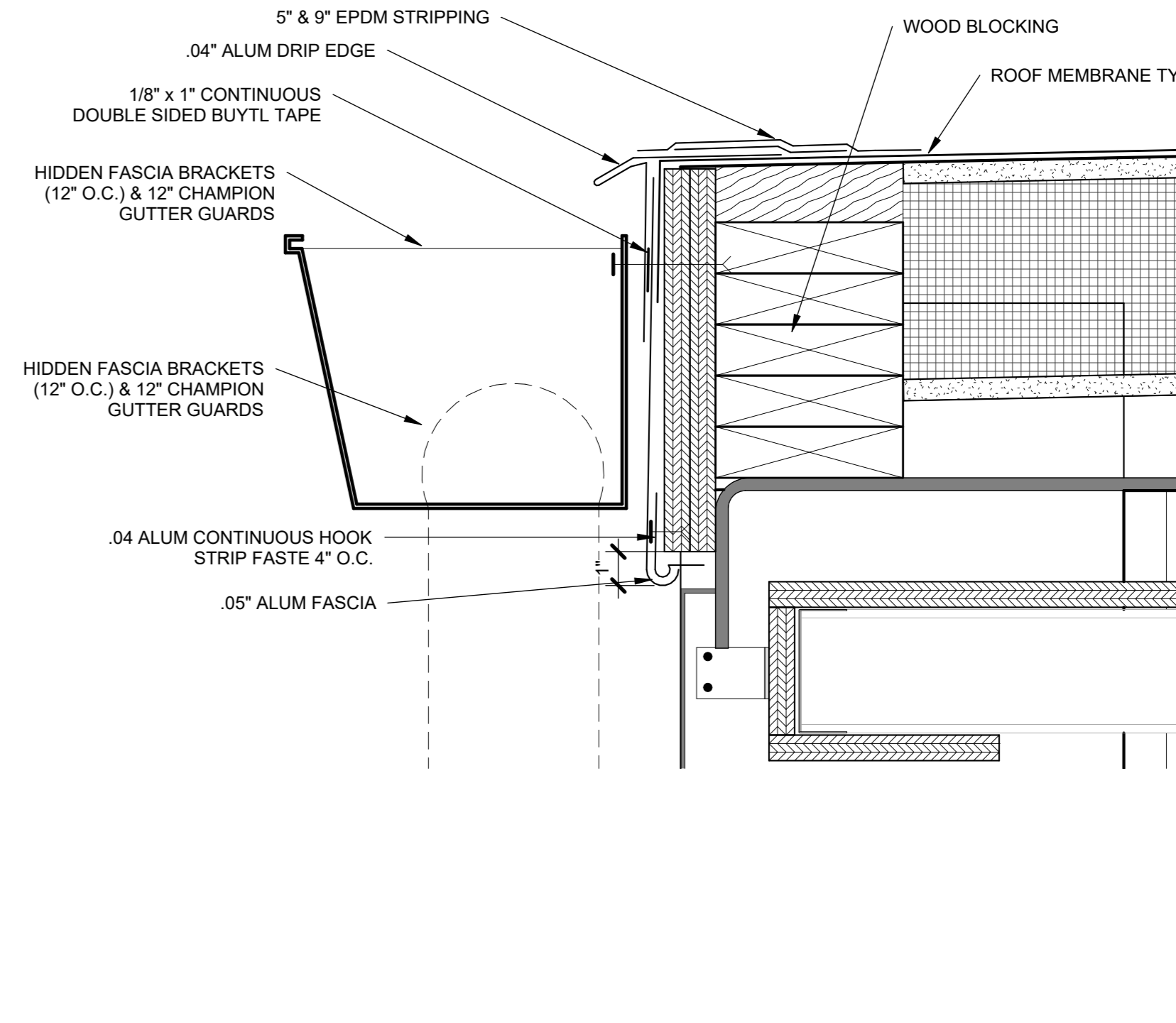
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| Sheet Number | | | |



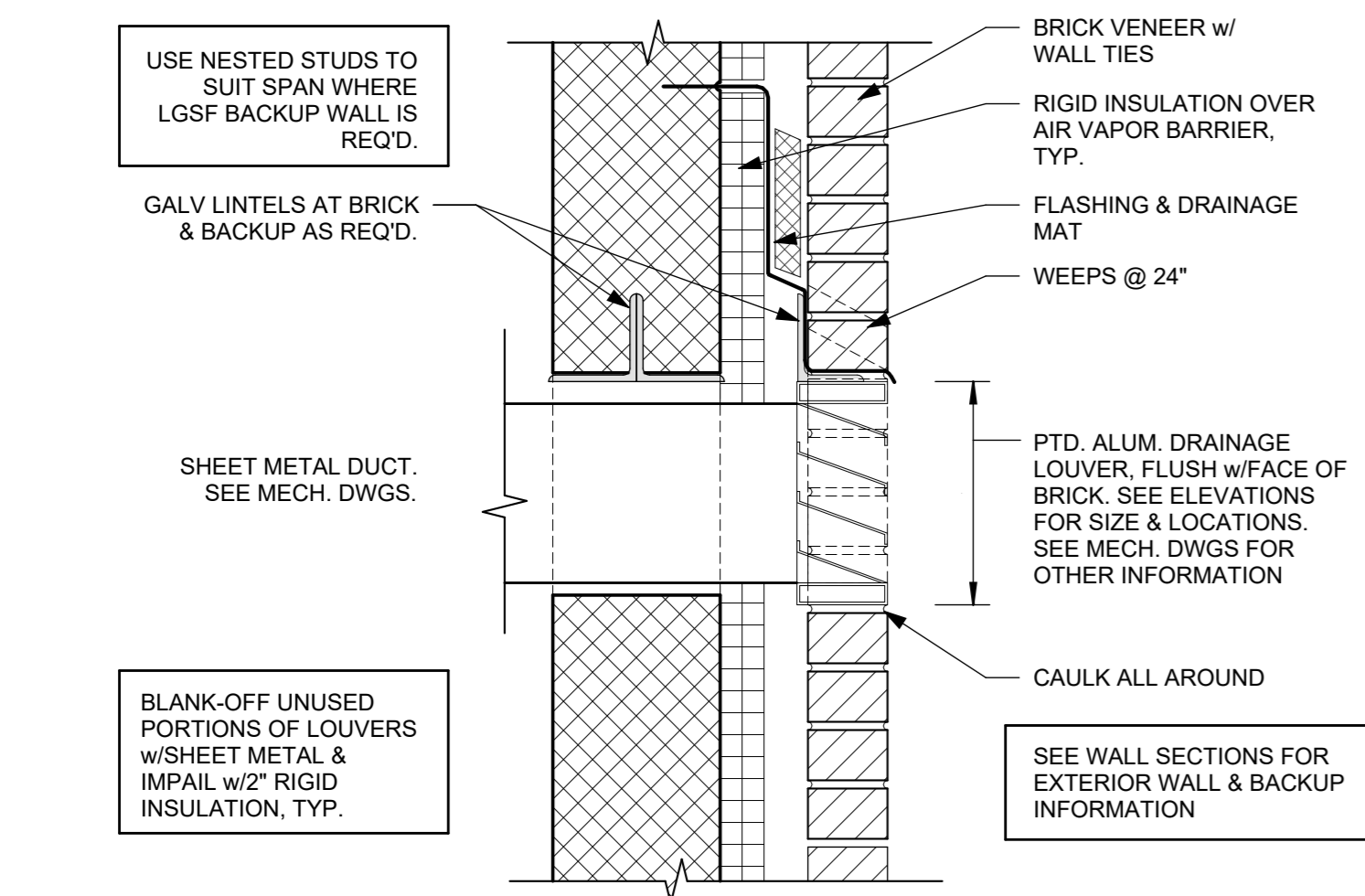
12 TYPICAL SNAP LOK COPING DETAIL
3" = 1'-0"



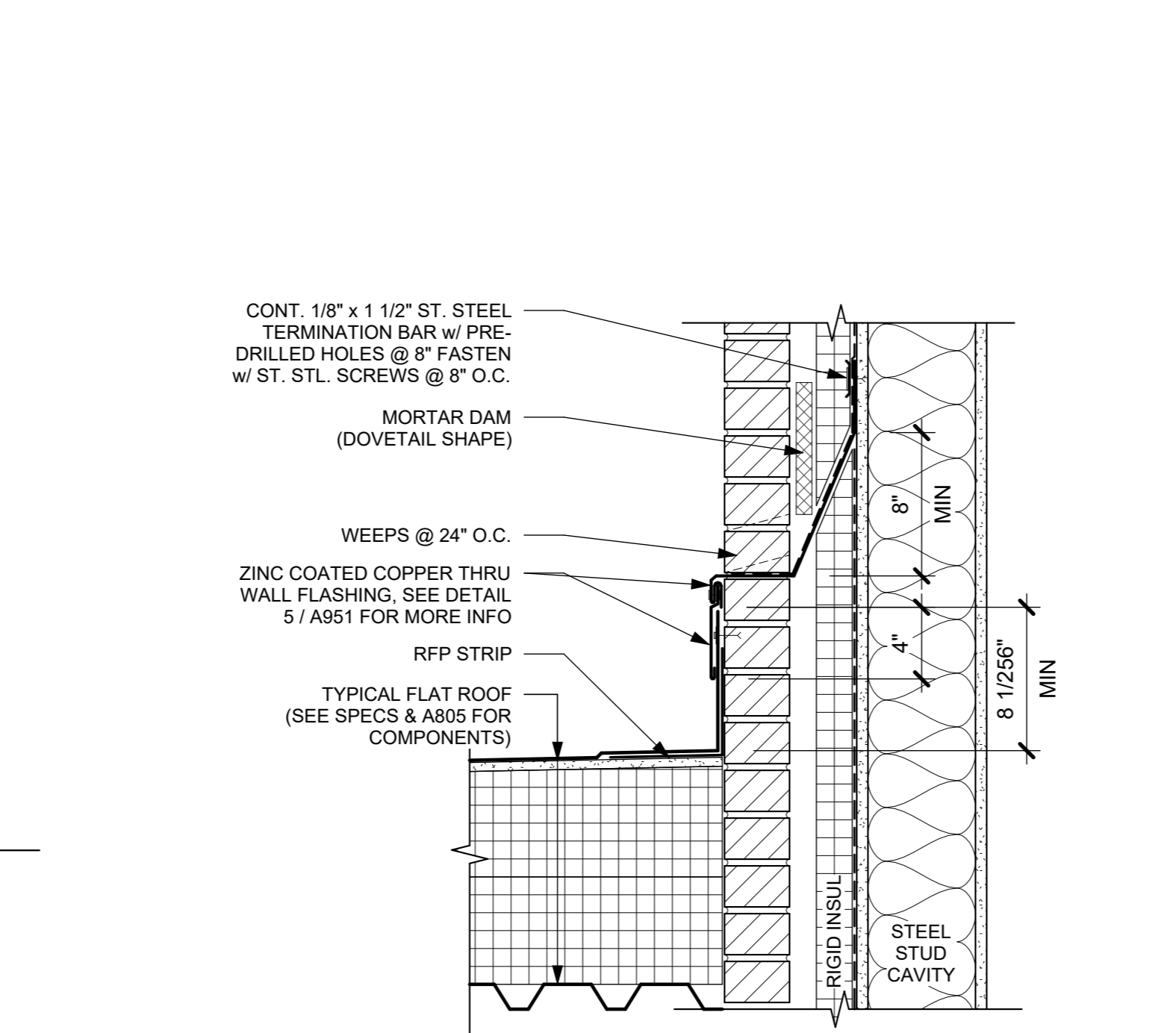
11 TYPICAL RAKE
3" = 1'-0"



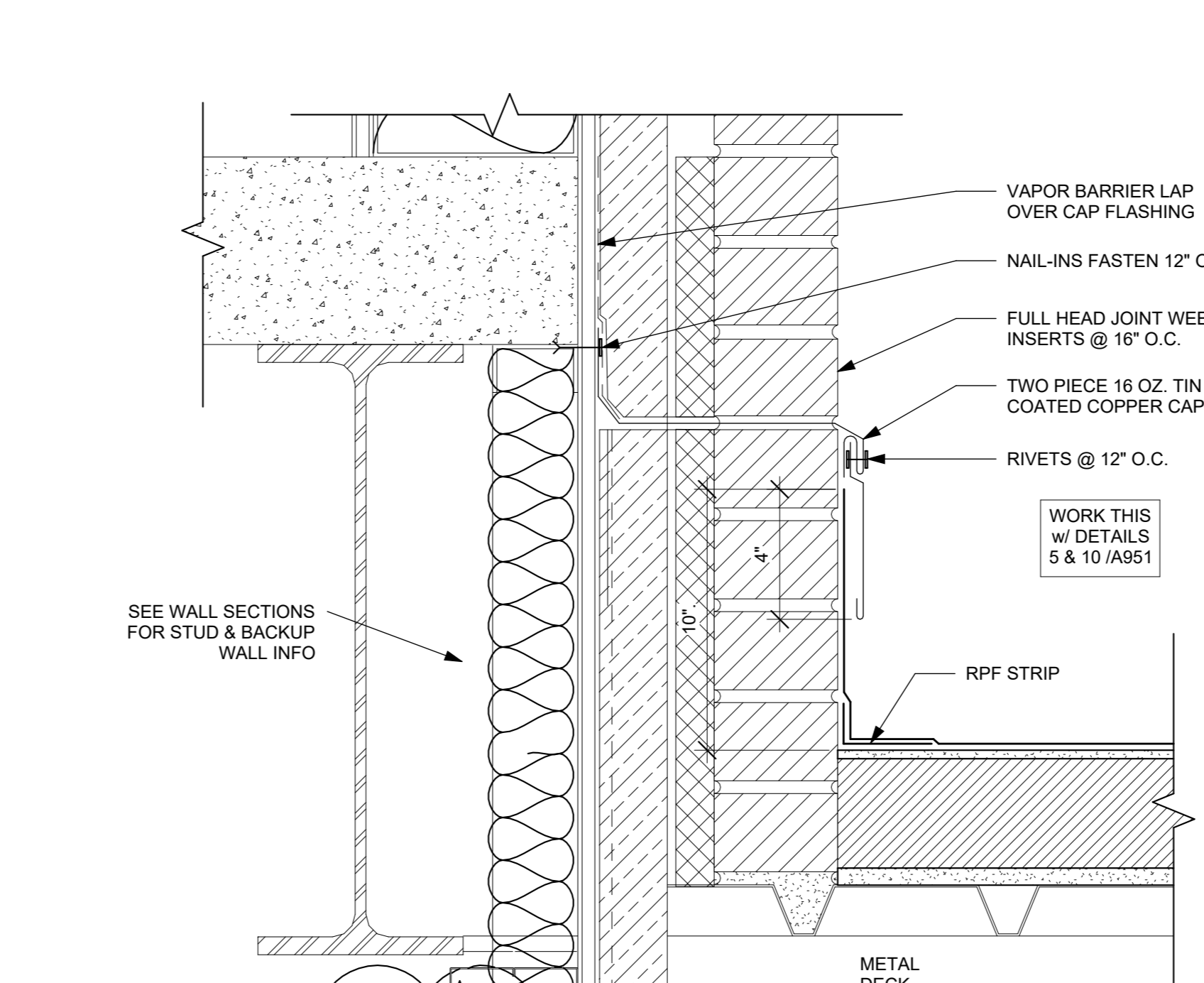
10 TYPICAL GUTTER EAVE
3" = 1'-0"



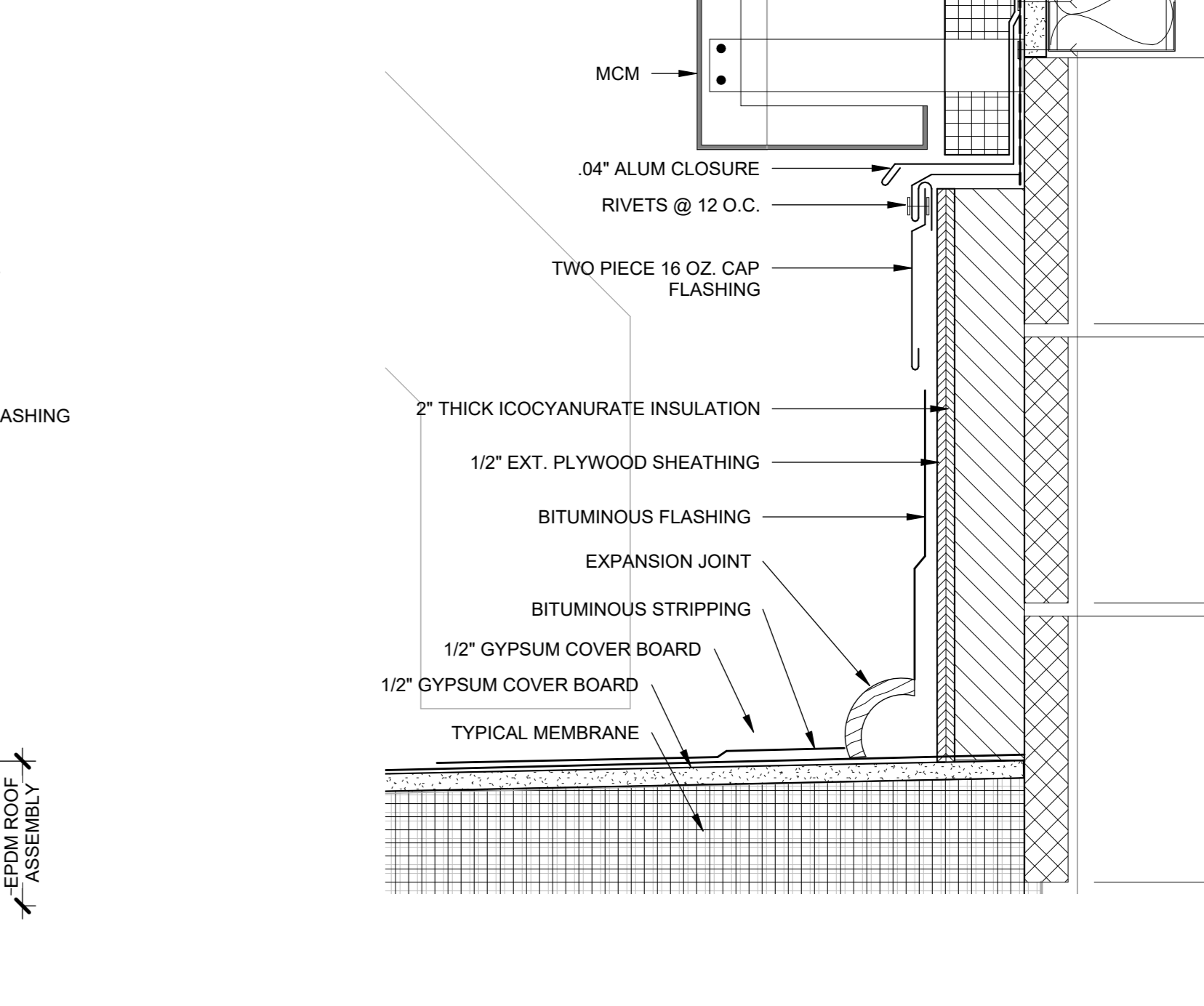
9 TYPICAL LOUVER DETAIL (U.N.O.)
1 1/2" = 1'-0"



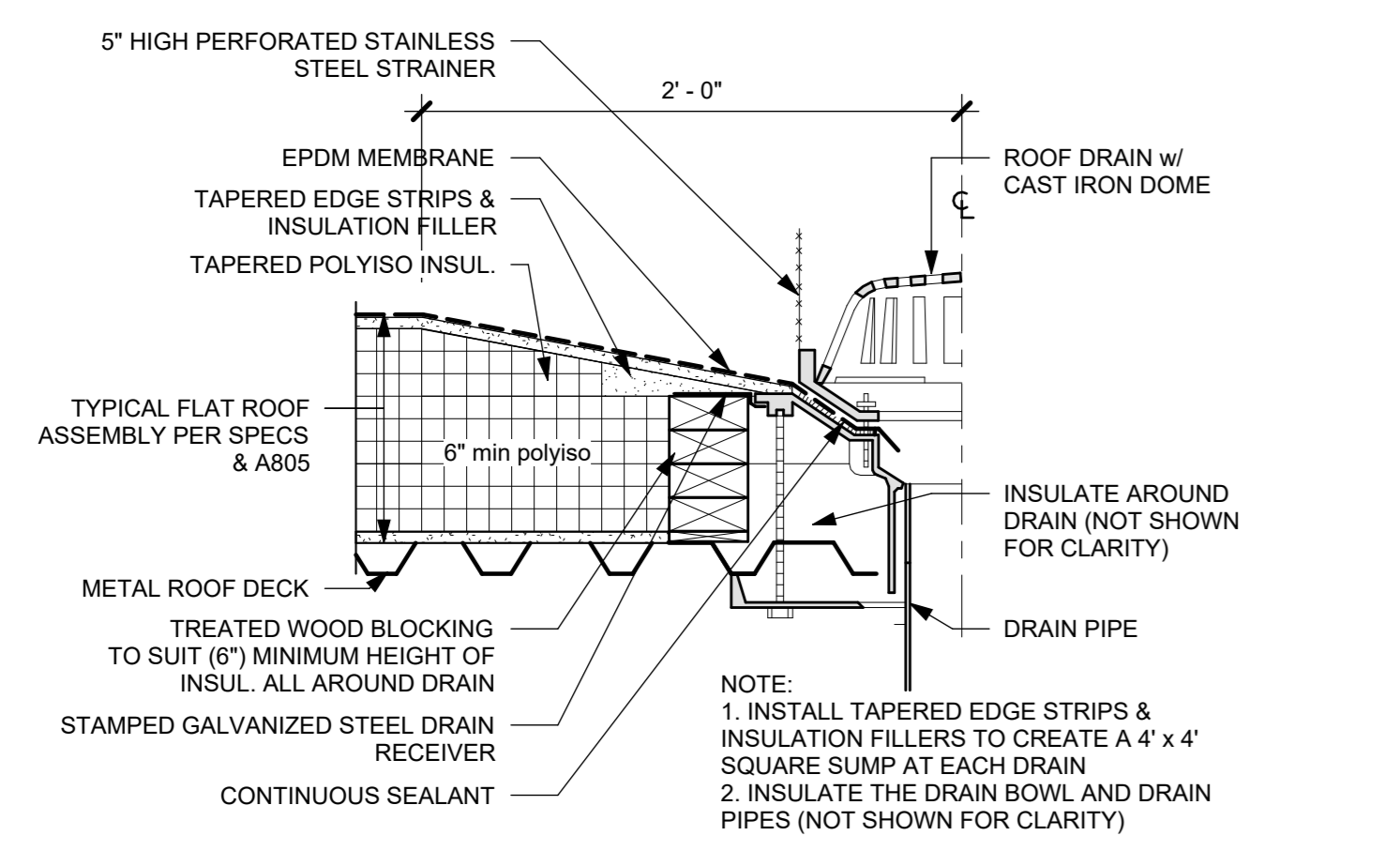
7 ROOF TO BRICK THRU-WALL FLASHING DETAIL - TYPICAL
1 1/2" = 1'-0"



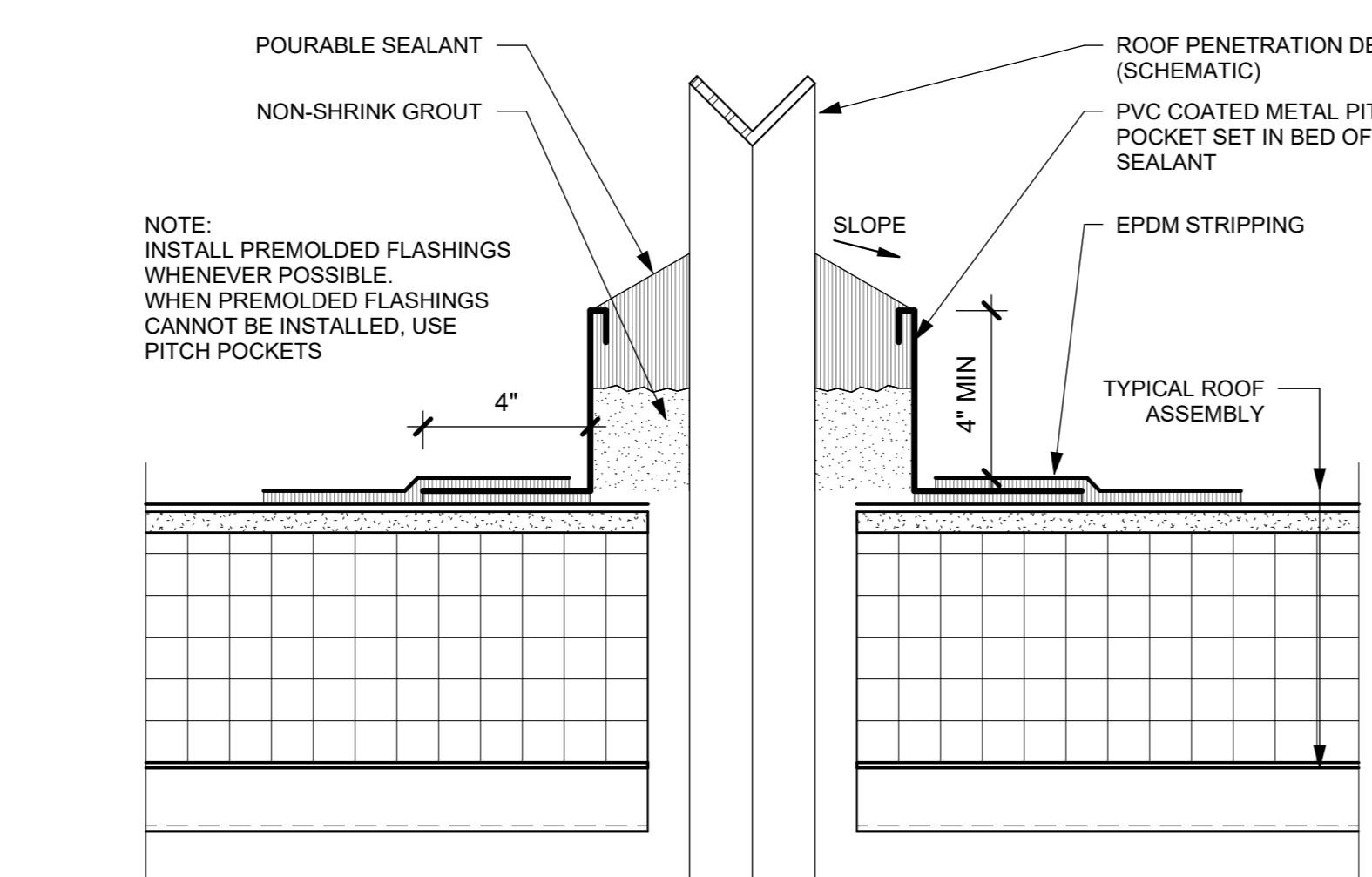
6 THROUGH WALL FLASHING DETAIL - TYP
3" = 1'-0"



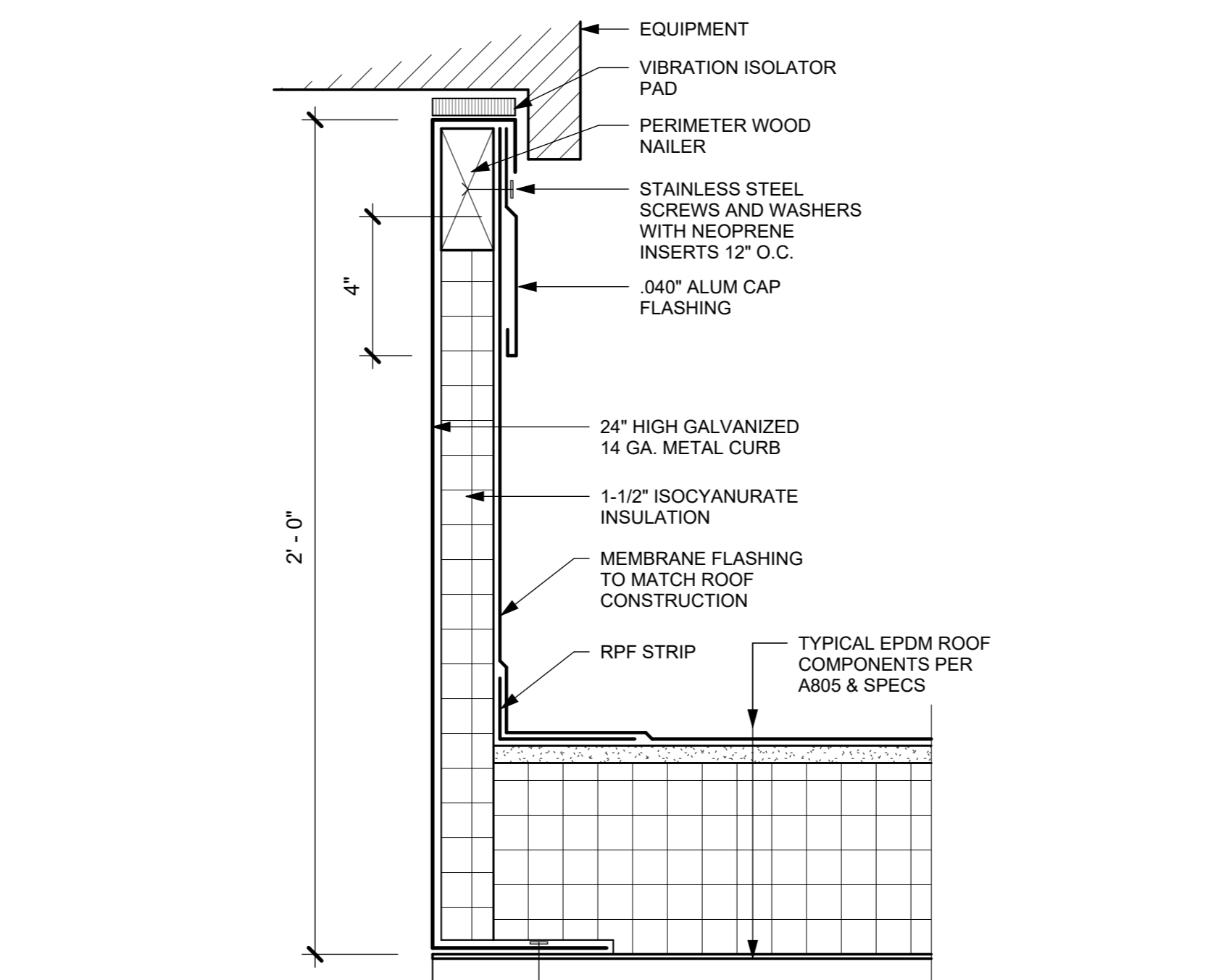
5 Section 59 - Callout 1 - Callout 1
3" = 1'-0"



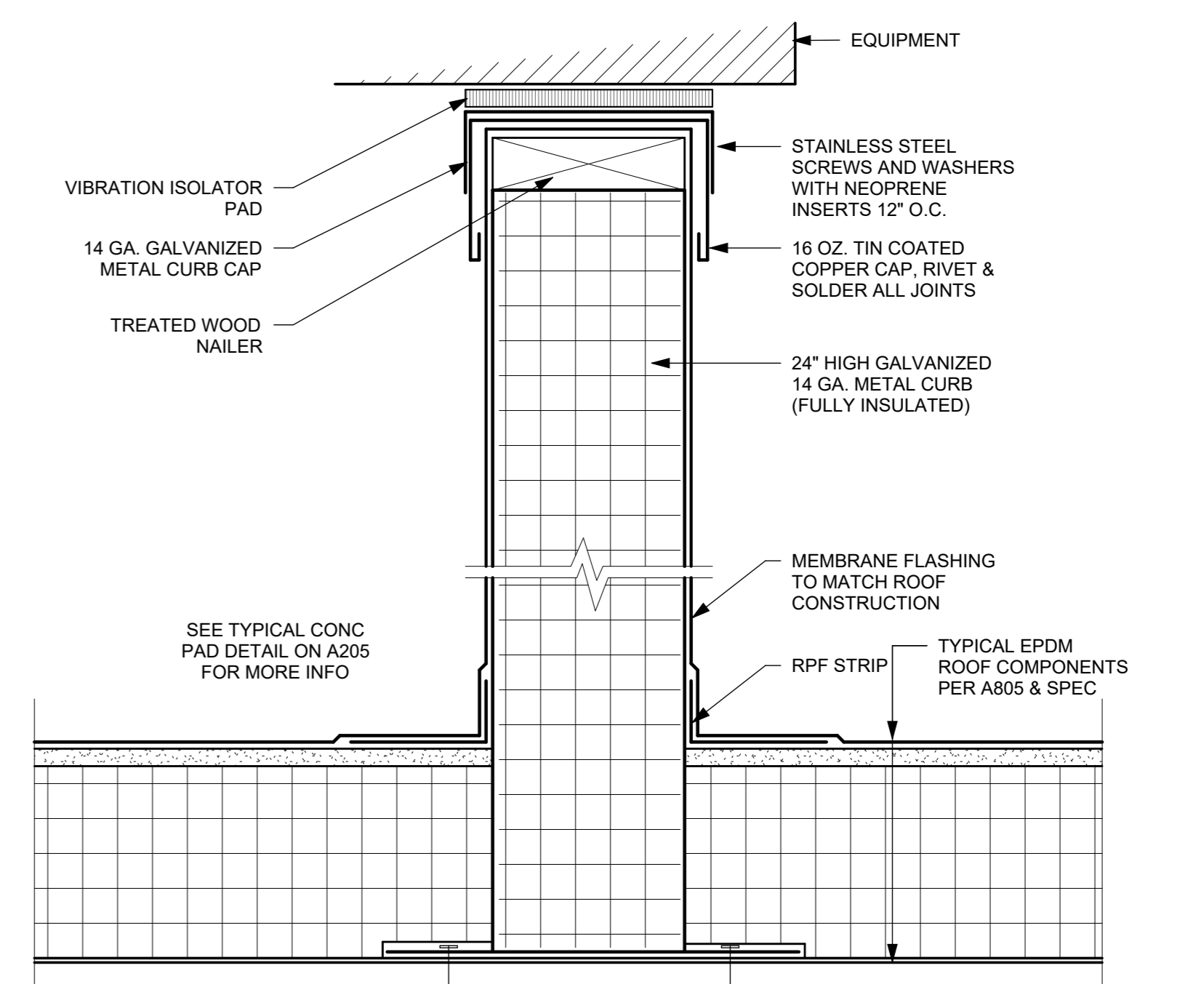
8 TYPICAL ROOF DRAIN
1 1/2" = 1'-0"



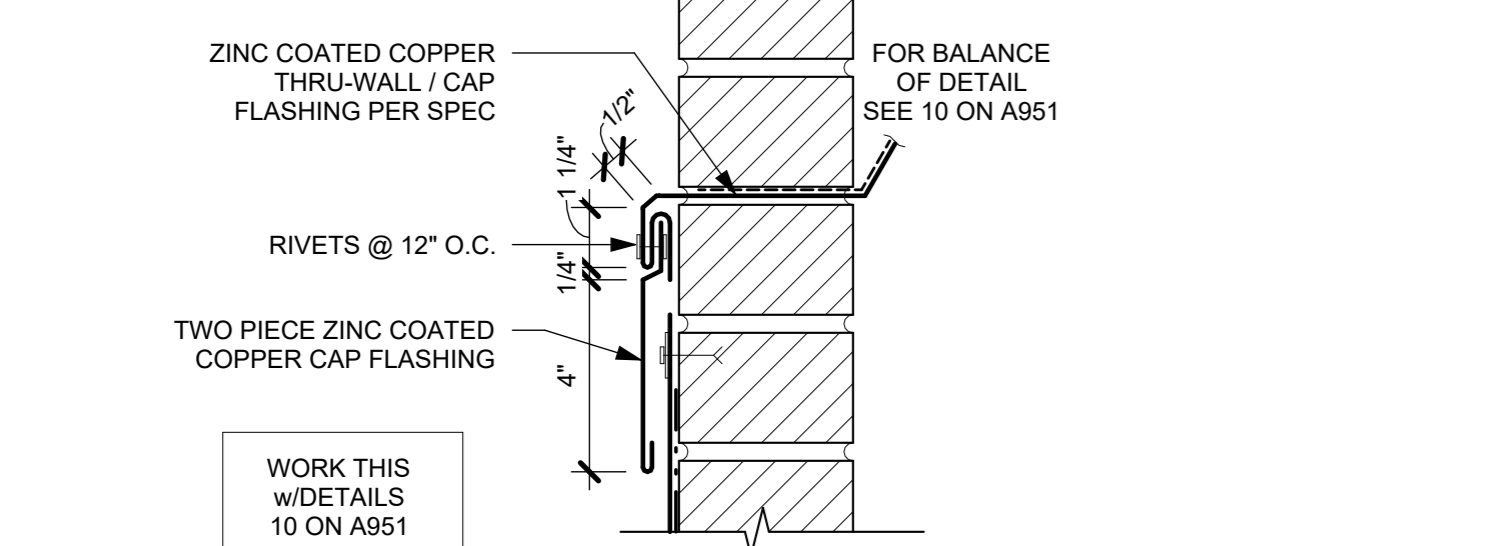
3 TYPICAL PITCH POCKET
3" = 1'-0"



2 TYPICAL EQUIPMENT SUPPORT CURB
3" = 1'-0"



1 TYPICAL RAIL SUPPORT CURB
3" = 1'-0"



4 THRU-WALL FLASHING DETAIL - TYPICAL
3" = 1'-0"

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Sheet Title

TYPICAL ROOF SECTIONS & DETAILS

Job No. 2020-1005 Date 01/09/24
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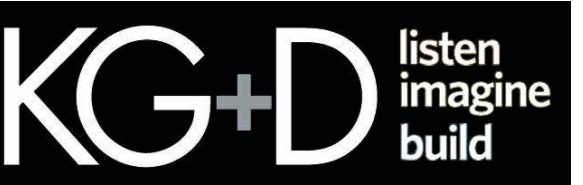
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A931

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

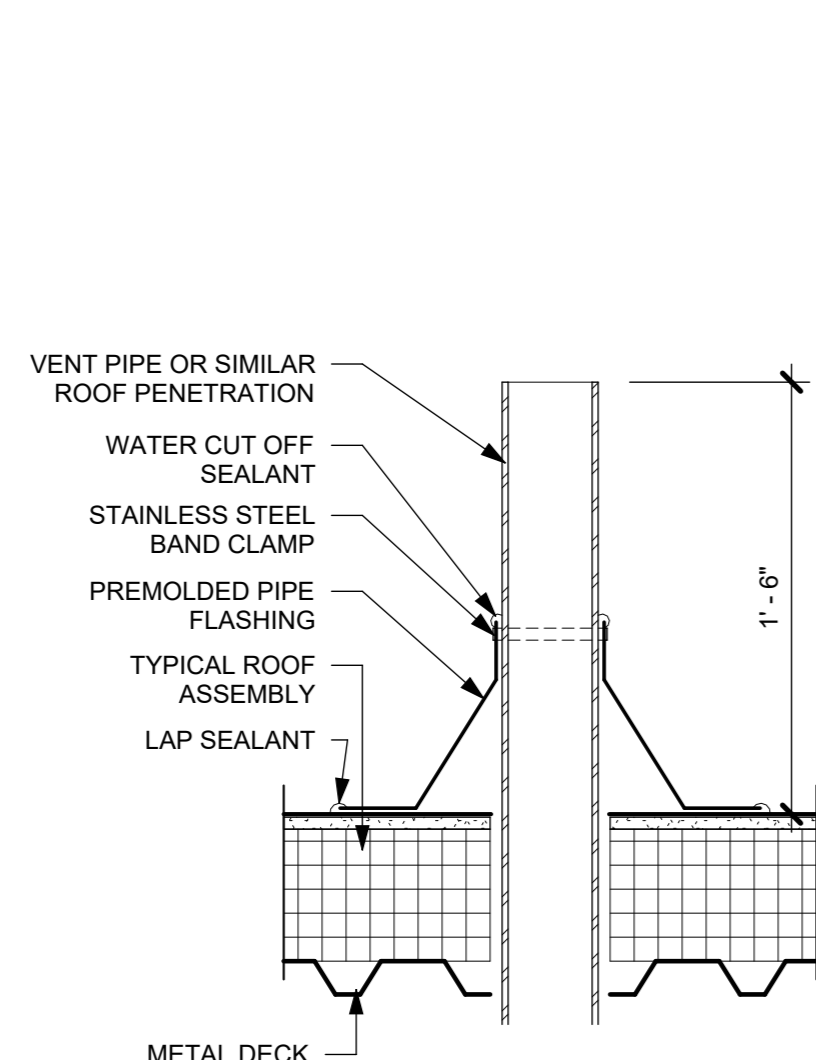
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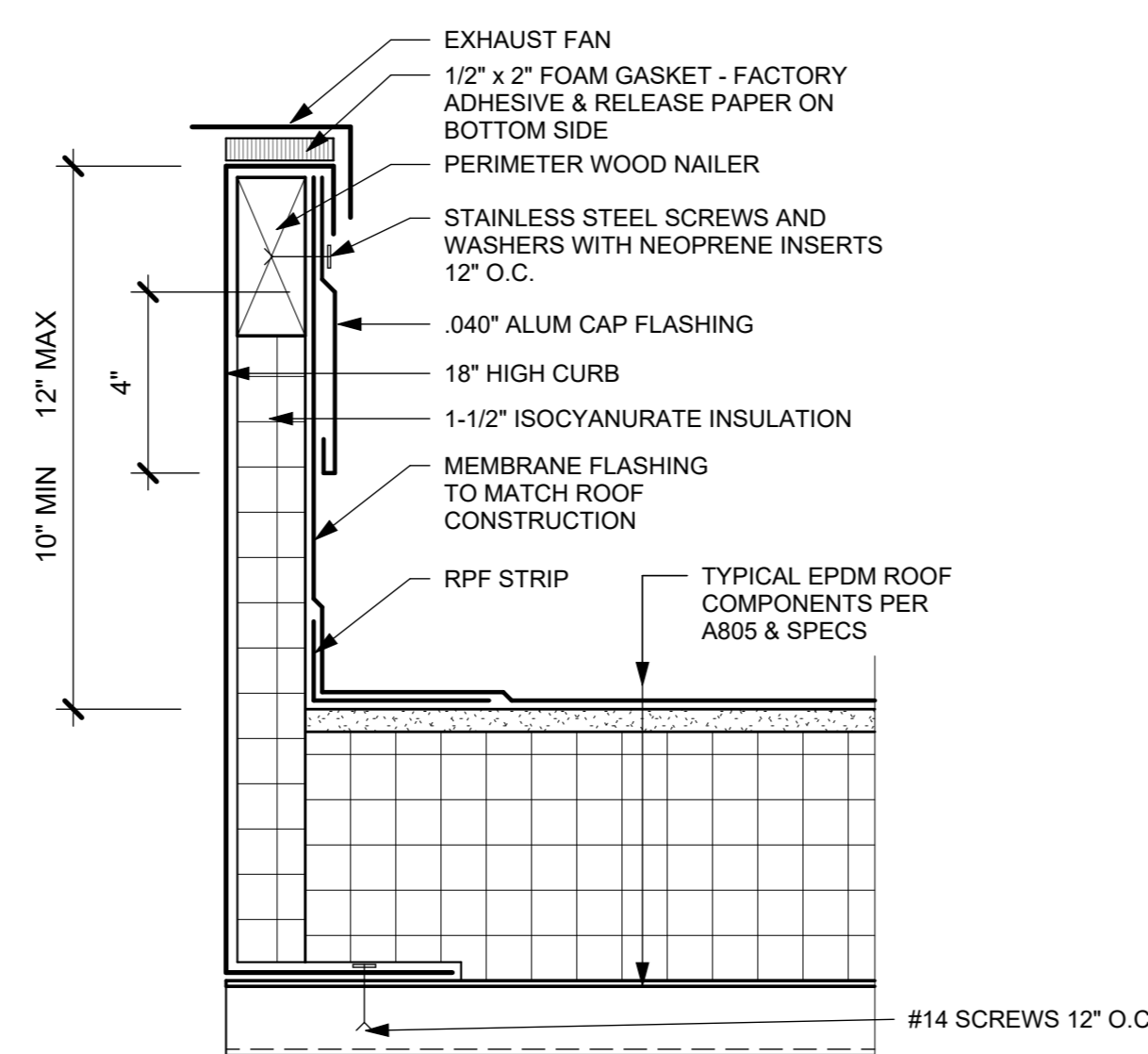
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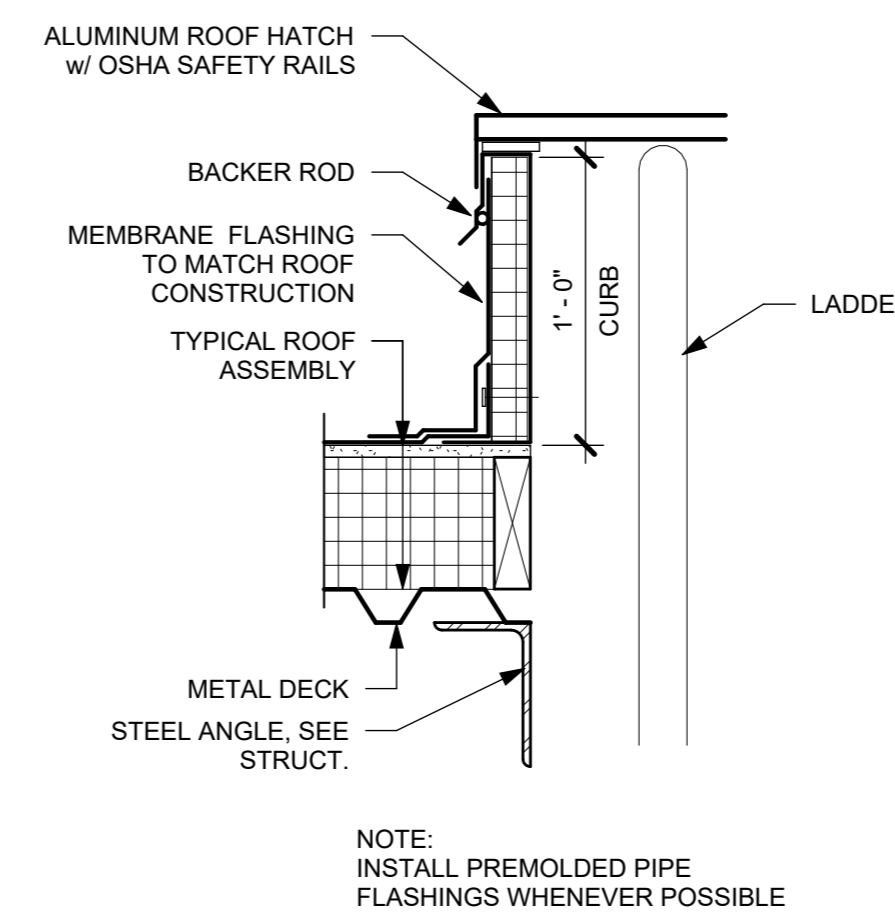


NOTE:
INSTALL PREFORMED PIPE
FLASHINGS WHENEVER POSSIBLE

5 TYPICAL VENT PIPE
1 1/2" = 1'-0"

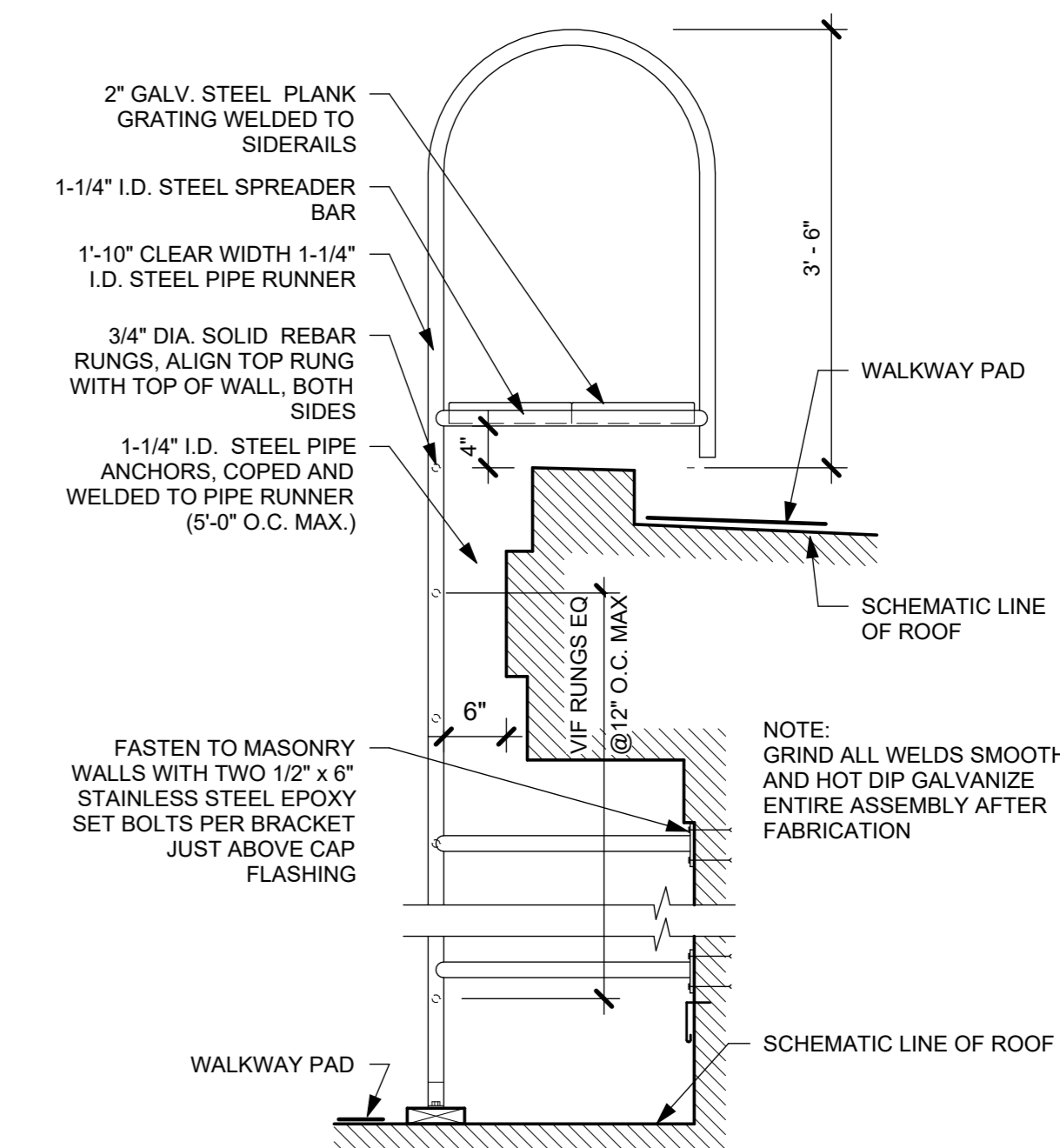


4 TYPICAL EXHAUST FAN SUPPORT CURB
3" = 1'-0"



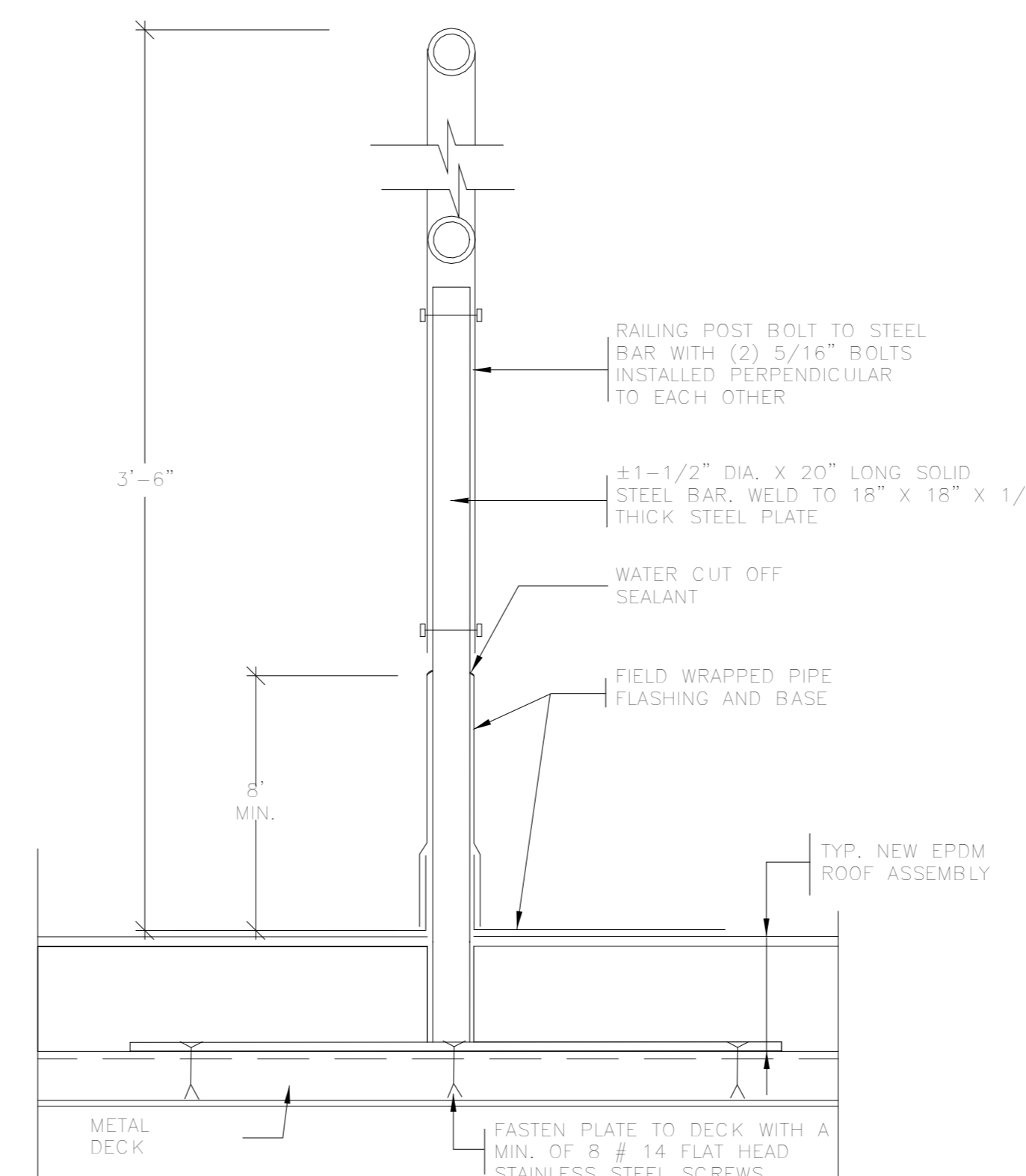
NOTE:
INSTALL PREFORMED PIPE
FLASHINGS WHENEVER POSSIBLE

3 TYPICAL ROOF HATCH DETAIL
1 1/2" = 1'-0"

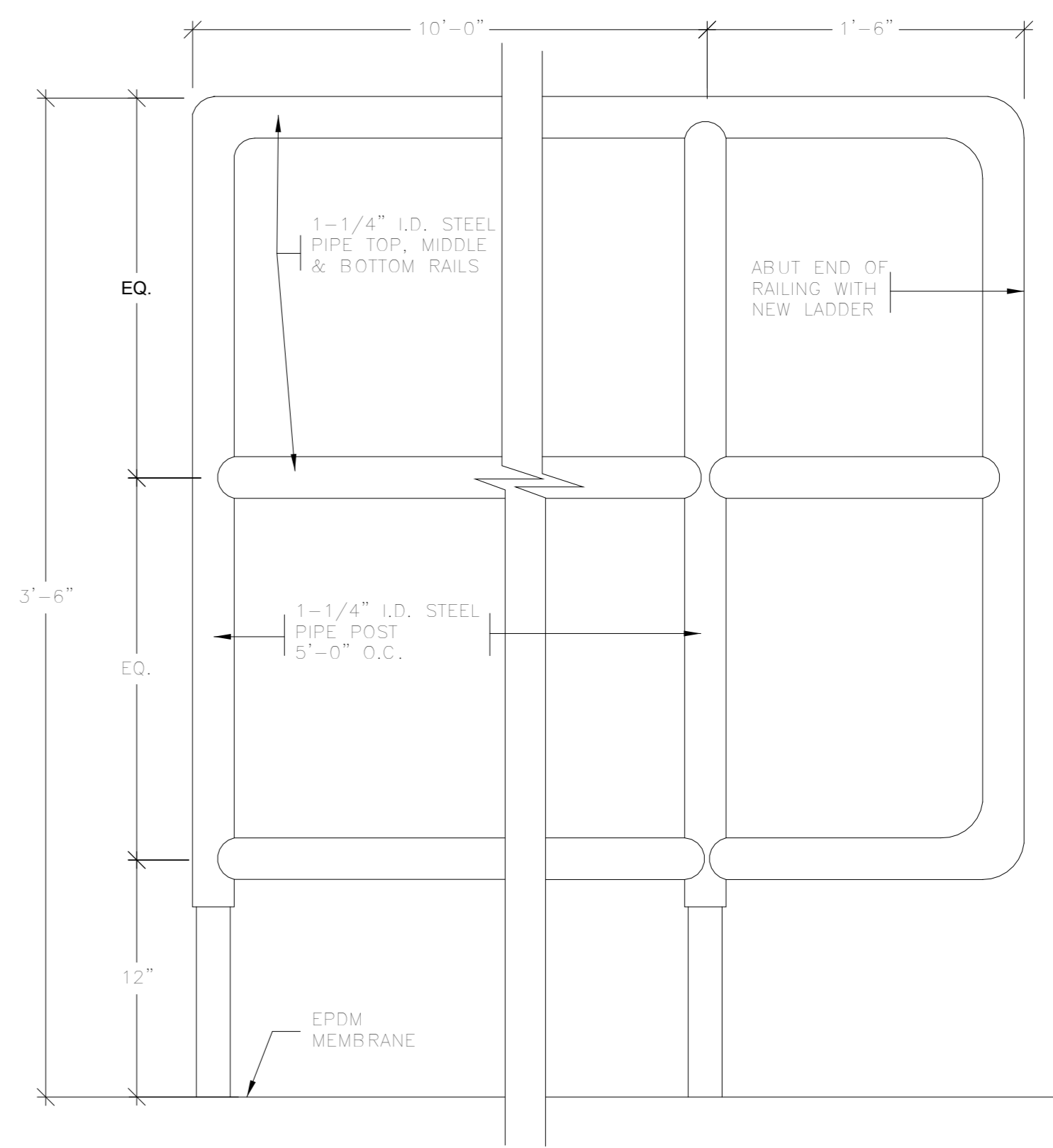


NOTE:
GRIND ALL WELDS SMOOTH
AND HOT DIP GALVANIZE
ENTIRE ASSEMBLY AFTER
FABRICATION

2 TYPICAL OVERHANG LADDER DETAIL
3/4" = 1'-0"



1 TYPICAL DECK MOUNTED ROOF RAILING
3" = 1'-0"



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Sheet Title

**TYPICAL ROOF
SECTIONS &
DETAILS**

Job No. 2020-1005 Date 06/03/24

Scale AS NOTED Drawn / Checked Author / Checker

Sheet Number

A932

SYMBOLS AND ABBREVIATIONS

| SYMBOL | ABBREVIATION | DESCRIPTION |
|--------|--------------|---|
| --- | NEW | NEW WORK |
| ⊘ | — | ELBOW UP |
| ⊘ | — | ELBOW DOWN |
| ⊘ | — | TEE DOWN |
| ⊘ | — | TEE UP |
| ⊘ | — | PIPE CAP OR FLUSHING CONNECTION |
| ⊘ | — | GATE VALVE |
| ⊘ | — | OS&Y GATE VALVE |
| ⊘ | — | BUTTERFLY VALVE |
| ⊘ | — | CHECK VALVE |
| ⊘ | — | UNION |
| ⊘ | — | TEMPERATURE GAGE |
| ⊘ | — | PRESSURE GAGE |
| ⊘ | — | WATER FLOW SWITCH |
| ⊘ | — | TAMPER SWITCH |
| ⊘ | — | INSPECTORS TEST CONNECTION |
| ➔ | — | FLOW ARROW |
| ⊘ | — | SPRINKLER GUARD |
| ⊘ | — | NEW PENDENT SPRINKLER, CONCEALED OR EXPOSED AS NOTED. |
| ⊘ | — | NEW UPRIGHT SPRINKLER |
| ⊘ | — | SIDEWALL SPRINKLER |
| ⊘ | — | POINT OF CONNECTION |
| ⊘ | — | POINT OF DISCONNECTION |
| ⊘ | — | HYDRAULIC REFERENCE NODE |
| ⊘ | — | HYDRAULIC REFERENCE SPRINKLER |
| ⊘ | FDC | FIRE DEPARTMENT CONNECTION |
| ⊘ | FP | FIRE PUMP |
| ⊘ | AAV | AUTOMATIC AIR VENT |
| ⊘ | AFF | ABOVE FINISHED FLOOR |
| ⊘ | AHC | ABOVE HUNG CEILING |
| ⊘ | ATC | AT CEILING |
| ⊘ | BFP | BACKFLOW PREVENTOR |
| ⊘ | CCDA | DOUBLE CHECK DETECTOR ASSEMBLY |
| ⊘ | DCV | DOUBLE CHECK VALVE BFP |
| ⊘ | DN. | DOWN |
| ⊘ | FCA | FLOOR CONTROL ASSEMBLY |
| ⊘ | FD | FLOOR DRAIN |
| ⊘ | FLFD | FUNNEL FLOOR DRAIN |
| ⊘ | GPM | GALLONS PER MINUTE |
| ⊘ | JP | JOCKEY PUMP |
| ⊘ | NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| ⊘ | (NO) | NORMALLY OPEN |
| ⊘ | (NC) | NORMALLY CLOSED |
| ⊘ | NTS | NOT TO SCALE |
| ⊘ | PRV | PRESSURE REDUCING VALVE |
| ⊘ | PSI | POUNDS PER SQUARE INCH |
| ⊘ | RPZ | REDUCED PRESSURE ZONE BFP |
| ⊘ | SF | SQUARE FOOT |
| ⊘ | TS | TAMPER SWITCH |
| ⊘ | Typ | TYPICAL |
| ⊘ | U.O.N. | UNLESS OTHERWISE NOTED |

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

GENERAL NOTES

- THE NEW SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY AN EXPERIENCED FIRE PROTECTION CONTRACTOR IN STRICT ACCORDANCE WITH NFPA-13, THE REQUIREMENTS OF THE LANDLORD, LANDLORD'S FIRE INSURANCE UNDERWRITER, AND ALL GOVERNMENTAL AGENCIES AND AUTHORITIES HAVING JURISDICTION OVER THE PREMISES.
- COORDINATE ALL WORK WITH OTHER TRADES TO MINIMIZE INTERFERENCES WITH NEW FACILITIES, TO FACILITATE TIMELY COMPLETION AND AVOID NECESSITY FOR CUTTING AND PATCHING. FURNISH TO OTHER AFFECTED TRADES ALL NECESSARY INFORMATION, WORKING DRAWINGS OR MATERIALS REQUIRED FOR INSTALLATION AND COMPLETION OF ALL WORK. ALL CONFLICTS, OBSTRUCTIONS AND/OR MODIFICATIONS TO THE SPRINKLER DESIGN LAYOUT DUE TO FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION.
- CONTRACTOR SHALL CONDUCT HYDRANT FLOW TEST TO ESTABLISH EXACT FLOW AND PRESSURE AVAILABLE ON THE SITE FOR PREPARATION OF HYDRAULIC CALCULATIONS. HYDRANT FLOW TEST SHALL BE CONDUCTED ON TWO HYDRANTS ON THE SITE WATER MAIN SERVING THE BUILDING FLOWING A MINIMUM OF 500 GPM.
- ALTER PIPING AS REQUIRED TO SUIT CEILING HEIGHTS, DUCTWORK, AND LIGHTS. PROVIDE AT NO EXTRA COST ALL ADDITIONAL PIPING AND FITTINGS REQUIRED TO OFFSET SYSTEM TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL INTERFERENCES, WHETHER INDICATED OR NOT, BEFORE INSTALLING WORK.
- WHEN INSTALLING SPRINKLER HEADS, THE CONTRACTOR SHALL PROVIDE THE SHORTEST HYDRAULIC PIPE LENGTH BETWEEN THE FINAL SPRINKLER HEAD LOCATION AND THE BRANCH LINE CONNECTION. MINIMUM 1" FOR TWO HEADS, 1-1/4" FOR THREE HEADS AND 1-1/2" FOR FIVE HEADS.
- EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. SPRINKLER HEADS INSTALLED IN HUNG CEILING WILL BE POSITIONED AS FOLLOWS: LOCATED WITH TOLERANCE ± 1/2" OF THE CENTERLINE OF THE TILES.
- INSTALL SPRINKLER HEADS TIGHT TO BOTTOM OF HUNG CEILING WITH CARE THAT THE FINISH IS NOT DAMAGED.
- WHEN CONCEALED TYPE SPRINKLER HEADS ARE USED, THE COVER PLATES WILL BE FLUSH WITH THE CEILING PLANE TO LIMIT SHADOW EFFECT. TOLERANCE GREATER THAN ± 1/8" IS UNACCEPTABLE.
- PROVIDE TWO 2-1/2 GALLON PRESSURIZED WATER AND ONE 10 LB ABC DRY CHEMICAL EXTINGUISHERS FOR EMERGENCY USE DURING CONSTRUCTION.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH A LISTED FIRE STOPPING ASSEMBLY OR MATERIAL.
- ALL HOSE CONNECTION AND FIRE DEPARTMENT CONNECTION THREADS SHALL BE TESTED TO VERIFY COMPATIBILITY WITH THREADS USED BY LOCAL FIRE DEPARTMENT, IN ACCORDANCE WITH NFPA-14 (2016) SECTION 11.3.
- THE CONTRACTOR SHALL MAKE A PROVISION FOR (20) EXTRA SPRINKLERS INCLUDING IMMEDIATE BRANCH PIPING, FITTINGS AND ARM-OVERS. THE CONTRACTOR SHALL COORDINATE WITH FINAL CONFIGURATION OF OPEN AND HUNG CEILINGS, ALL HVAC DUCTWORK AND PIPING AND STRUCTURAL ELEMENTS THROUGHOUT THE AREA OF WORK.
- ALL PIPING INCLUDING HANGER, SUPPORTS, ETC. WITHIN THE GARAGE SHALL BE ROUTED AS HIGH AS POSSIBLE TO MAINTAIN VEHICULAR CLEARANCE THROUGHOUT. REFER TO ARCHITECTURAL DRAWINGS FOR MINIMAL CLEARANCES.

EQUIPMENT NOTES

- TAMPER SWITCHES: SHALL BE AS MANUFACTURED BY POTTER ELECTRIC SIGNAL CO. FOR EACH POSSIBLE SHUT-OFF VALVE TYPE:
 - MODEL OSYSU-2 - FOR OS&Y VALVES.
 - MODEL PCVS-2 - FOR BUTTERFLY VALVES.
 - MODEL RBVS - FOR BALL VALVES.
- SPRINKLER PIPING MATERIAL: SHALL BE STANDARD WEIGHT SCHEDULE 40 BLACK STEEL PIPE, SEAMLESS OR WELDED MILD STEEL, CONFORMING TO ASTM A-795/A-83. SCHEDULE 10 PIPING IS NOT PERMITTED FOR PIPING LESS THAN 2".
- FLOOR CONTROL VALVE ASSEMBLY: SHALL BE BASED ON VICTAULIC UMC UNIVERSAL MANIFOLD CHECK ASSEMBLY OR APPROVED EQUAL. WHERE UNIVERSAL MANIFOLD CHECK VALVES ARE SPECIFIED FOR USE IN WET-PIPE SPRINKLER SYSTEMS, AS FLOOR CONTROL MANIFOLDS THEY SHALL BE SPECIFICALLY LISTED FOR SUCH USE. UNIVERSAL MANIFOLD CHECK VALVES SHALL BE DUCTILE IRON CONSTRUCTION, INCORPORATING A CONTROL VALVE, CHECK VALVE, FLOW SWITCH, TEST & DRAIN ASSEMBLY, ADJUSTABLE RELIEF VALVE, AND SYSTEM GAUGES IN ONE COMPACT BODY/FOOTPRINT, AND SHALL BE MANUFACTURED FOR "RIGHT" AND "LEFT"-HAND ORIENTATIONS. THE TEST & DRAIN ASSEMBLY SHALL CONTAIN AN ADJUSTABLE RELIEF VALVE, WITH A RANGE OF 175 TO 310 PSI.
- WATERFLOW ALARM SWITCH: SHALL BE BASED ON POTTER ELECTRIC SIGNAL CO. VSR SERIES. PROVIDE WATERFLOW ALARM SWITCHES WHERE INDICATED ON THE DRAWINGS.
- FIRE DEPARTMENT CONNECTION: SHALL BE BASED ON POTTER ROEMER TWO-WAY FLUSH INLET FIRE DEPT CONNECTION OR EQUAL. AT BUILDING FACADE. COORDINATE STYLE AND LOCATION WITH ARCHITECT. SIAMASE SHALL BE PLACED BETWEEN 18 INCHES AND 36 INCHES ABOVE THE SIDEWALK. FIRE DEPARTMENT CONNECTION SHALL HAVE TWO (2) 3" INTERNALLY THREADED SWIVEL FITTINGS WITH THREADS CONFORMING TO LOCAL FIRE DEPT STANDARDS WITH 4" OUTLET. PROVIDE AUTOMATIC BALL DRIP AT FDC FACE PLATE AND APPLICABLE SIGNAGE.
- ELECTRIC ALARM BELL: SHALL BE SIMILAR TO POTTER ELECTRIC SIGNAL COMPANY, VIBRATING TYPE BELL, MODEL PBA-2410, 24VAC, 10-INCH DIAMETER, STEEL COVER WITH RED POWDER COAT FINISH, UL LISTED/FM APPROVED, SUITABLE FOR OUTDOOR USE, ALL PARTS TO HAVE CORROSION RESISTANT FINISHES. PROVIDE WEATHERPROOF BACKBOX. BELL SHALL MAINTAIN 15dB ABOVE AVERAGE AMBIENT SOUND. WIRING SHALL BE 24V FROM FIRE ALARM CONTROL PANEL.
- AIR VENT: SHALL BE BASED ON POTTER AUTOMATIC AIR VENT MODEL AAV POTTER AIR VENT A. FURNISH AND INSTALL BALL VALVE AND STRAINER. AIR VENT SHALL BE LOCATED AT THE HIGHEST POINT OR TOP OF THE RISER.
- DRY PIPE VALVE ASSEMBLY: SHALL BE BASED ON VICTAULIC CO. FIRELOCK NXT DRY PIPE VALVE COMPLETE WITH INDIVIDUAL 3/4HP COMPRESSOR SERIES 7C7 OR APPROVED EQUAL, QUICK OPENING DEVICE SERIES 746-LPA DRY ACCELERATOR, ALARM PRESSURE SWITCH, AIR SUPERVISORY PRESSURE SWITCH, AIR SUPPLY SYSTEM AND SERIES 75D WATER COLUMN KIT. ALARM AND SUPERVISORY SIGNALS SHALL BE CONNECTED AND PROGRAMMED INTO BUILDING FIRE ALARM SYSTEM. REFER TO DETAILS. SIZE SHALL BE AS INDICATED ON FLOOR PLANS. COMPRESSOR ELECTRICAL: 208 / 1 / 60, CURRENT DRAW: 7.5 AMPS
- SPRINKLERS: REFER TO DRAWING FP-701 FOR SPRINKLER HEAD SCHEDULE.
- FIRE HOSE VALVE (NON-PRESSURE REGULATED): SHALL BE BASED ON CROKER MODEL 5015/5025 OR APPROVED EQUAL, 2-1/2" UL LISTED/FM APPROVED, 300 LB RATED ANGLE HOSE VALVE. HOSE THREADS TO BE COORDINATED WITH LOCAL AUTHORITY HAVING JURISDICTION.
- FIRE HOSE VALVE CABINET: SHALL BE BASED ON POTTER ROEMER FRC8022 SERIES FOR USE WITH 2-1/2" FIRE DEPARTMENT VALVE WITH FULL TEMPERED SAFETY GLASS AND RED LETTERING. REFER TO FLOOR PLANS FOR LOCATIONS.

WATER SUPPLY DATA

| | |
|---|---|
| DATE: | July 1, 2022 |
| TIME: | - |
| PERFORMED BY: | WJWW |
| STATIC PRESSURE AT RESIDUAL FIRE HYDRANT #3013: | 68 psi |
| RESIDUAL PRESSURE AT RESIDUAL FIRE HYDRANT #3013: | 62 psi |
| MEASURED FLOW AT FLOW FIRE HYDRANT #3021: | 805 gpm |
| NOTES: | 1. FLOW HYDRANT CONNECTED TO EXISTING 6" WATERMAIN IN CALVERT STREET. |

DESIGN CRITERIA

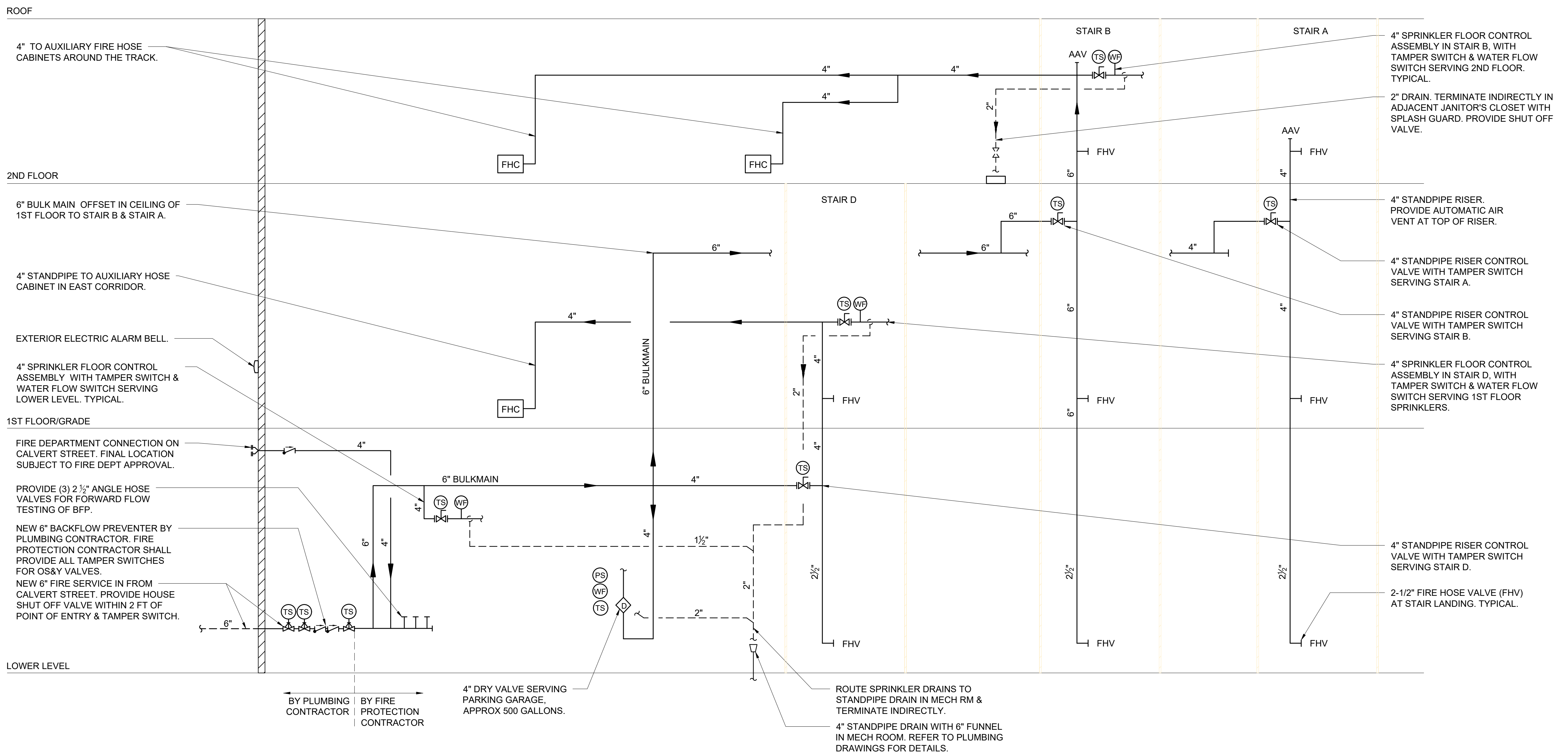
| HAZARD CLASSIFICATION ⁽¹⁾ | DENSITY ⁽²⁾ | PROTECTION AREA PER SPRINKLER ⁽³⁾ |
|--------------------------------------|-------------------------|--|
| LIGHT HAZARD | 0.1 GPM / 1500 SQ. FT. | 225 SQ. FT. MAX |
| ORDINARY HAZARD GROUP 1 | 0.15 GPM / 1500 SQ. FT. | 130 SQ. FT. MAX |
| ORDINARY HAZARD GROUP 2 | 0.2 GPM / 1500 SQ. FT. | 130 SQ. FT. MAX |
| EXTRA HAZARD GROUP 1 | 0.3 GPM / 2500 SQ. FT. | 100 SQ. FT. MAX |
| EXTRA HAZARD GROUP 2 | 0.4 GPM / 2500 SQ. FT. | 100 SQ. FT. MAX |

- NOTES:
- HAZARD CLASSIFICATION, DENSITY AND MAX. PROTECTION AREA SHALL BE IN ACCORDANCE WITH NFPA 13 - 2016 RECOMMENDATIONS UNLESS OTHERWISE NOTED.
 - WHERE REQUIRED BY THE BUILDING DEPARTMENT OR AUTHORITY HAVING JURISDICTION FOR PERMIT, THE ENTIRE SYSTEM SHALL BE HYDRAULICALLY CALCULATED.
 - THE MINIMUM PRESSURE AT EACH SPRINKLER HEAD SHALL BE 7 PSI.
 - EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA 13 - 2016.
 - DISCHARGE FROM EACH SPRINKLER SHALL NOT BE LESS THAN REQUIRED AREA COVERAGE BY THIS HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA 13 SECTION 8.6.2.2.1 (2016).
 - HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO THE CONNECTION TO THE WATER MAIN IN THE MUNICIPAL STREET.
 - FLOW VELOCITY IN SPRINKLER PIPING SHALL NOT EXCEED 20 FEET PER SECOND (FPS).

STANDPIPE DESIGN CRITERIA

| | |
|---------------------------------|-------------------|
| CLASSIFICATION: | CLASS I |
| SYSTEM TYPE: | MANUAL WET |
| REQUIRED STANDPIPE FLOW DEMAND: | 750 GPM |
| NEAREST FIRE HYDRANT <100 FT.: | CALVERT STREET |
| REQUIRED DEMAND AT FDC: | 750 GPM @ 150 PSI |

- NOTES:
- THE FDC FOR FIRE DEPARTMENT ACCESS SHALL BE WITHIN 100 FEET OF HYDRANT LOCATED ON CALVERT ST.
 - MANUAL WET CLASS I STANDPIPE SYSTEM SHALL BE PERMITTED IN BUILDINGS NOT CLASSIFIED AS HIGH-RISE BUILDINGS IN ACCORDANCE WITH NFPA 14: §3.3, 15.5, §5.4.1.1.
 - MANUAL WET STANDPIPE SHALL BE SUBJECT TO FINAL APPROVAL BY THE LOCAL FIRE DEPARTMENT & AHJ.



1 FIRE PROTECTION RISER DIAGRAM
SCALE: NONE

HARRISON RECREATION & COMMUNITY CENTER
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270 Harrison Avenue
Harrison, NY 10528

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| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

FIRE PROTECTION SYMBOLS, ABBREVIATIONS, & NOTES

| | | | |
|--------------|-------------|-----------------|------------|
| Job No. | NKGD0207.00 | Date | 03/01/2024 |
| Scale | AS NOTED | Drawn / Checked | AM / CD |
| Sheet Number | FP-001 | | |

HARRISON RECREATION & COMMUNITY CENTER

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Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528



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Key Plan

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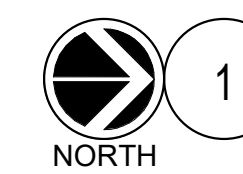
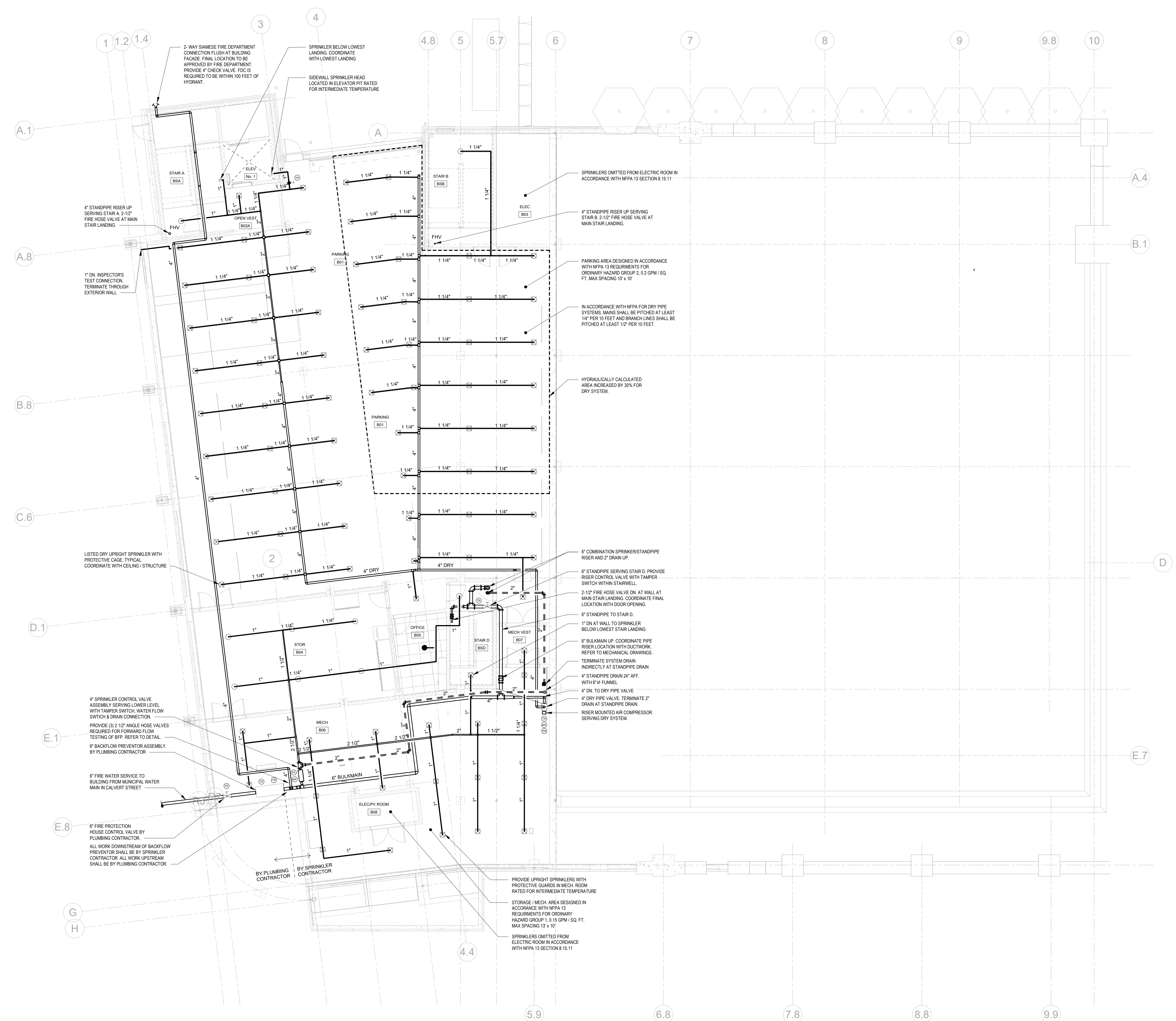
Professional Seal

| HYDRAULIC CALCULATION DATA | |
|---|-------------------|
| LOCATION: | PARKING GARAGE |
| SYSTEM: | DRY |
| HAZARD CLASSIFICATION: | ORDINARY GROUP 2 |
| DENSITY: | 0.2 GPM / SQ FT |
| AREA OF APPLICATION: | 1950 SQ. FT. |
| NO. OF SPRINKLERS CALCULATED: | 26 |
| COVERAGE PER SPRINKLER: | 130 SQ. FT. MAX. |
| K-FACTOR: | 5.6 |
| ORFICE SIZE (IN): | 1/2 |
| SPRINKLER DEMAND REQUIREMENTS: | 419 GPM AT 34 PSI |
| HOSE DEMAND: | 250 GPM |
| TOTAL SYSTEM REQUIREMENTS: | 669 GPM AT 34 PSI |
| AVAILABLE SUPPLY: | 669 GPM AT 63 PSI |
| NOTES: AREA OF APPLICATION INCREASED 30% FOR DRY SYSTEMS IN ACCORDANCE WITH NFPA 13 SECTION 11.2.3.2.5. | |

FIRE PROTECTION PARKING PLAN

| | |
|-------------|-----------------|
| Job No. | Date |
| NKGD0207.00 | 03/01/2024 |
| Scale | Drawn / Checked |
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FP-201



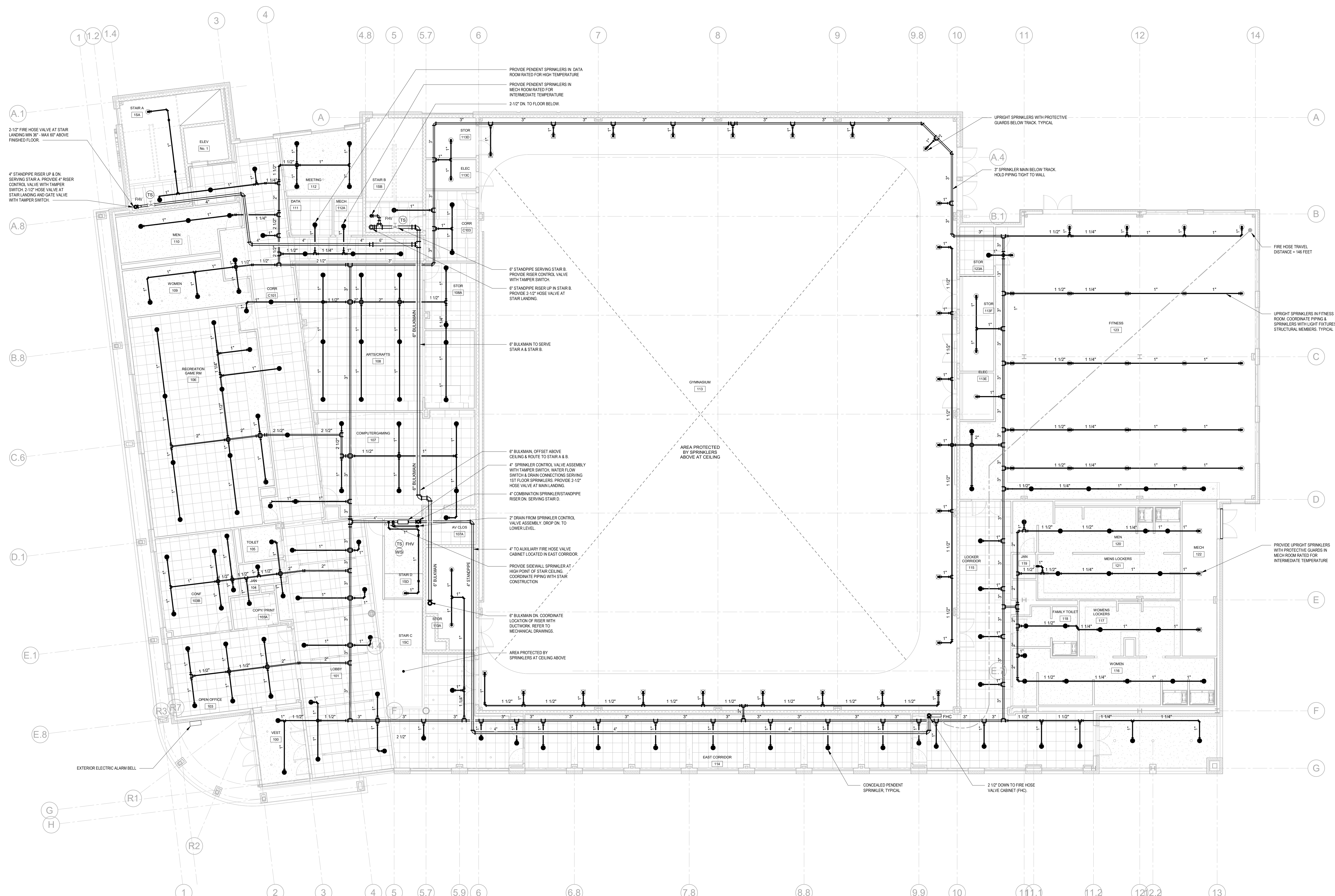
FIRE PROTECTION PARKING LEVEL PLAN

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

- NOTES:
1. TAMPER SWITCHES SHALL BE BY SPRINKLER CONTRACTOR. TYPICAL.

| | | |
|---|------------|------------------------|
| 4 | 06/05/2024 | ISSUED FOR BID |
| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 09/01/2023 | DESIGN DEVELOPMENT |
| 1 | 03/13/2020 | 50% DESIGN DEVELOPMENT |

| | |
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| Sheet Title | |
| FIRE PROTECTION 1ST FLOOR PLAN | |
| Job No. | Date |
| NKGD0207.00 | 01/24/2024 |
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| AS NOTED | AM / CD |
| Sheet Number | |
| FP-202 | |



FIRE PROTECTION 1ST FLOOR PLAN
SCALE: 1/8" = 1'-0"

- NOTES:
1. TAMPER SWITCHES SHALL BE BY SPRINKLER CONTRACTOR, TYPICAL.



NORTH

**HARRISON
RECREATION &
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New Construction - Phase 2
Town / Village of Harrison
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Harrison, NY 10528

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Hawthorne, NY 10532
914.747.2800
8 West 38th Street,
Suite 501
New York, NY 10018
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CONSTRUCTION DOCUMENTS

Key Plan

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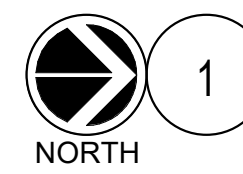
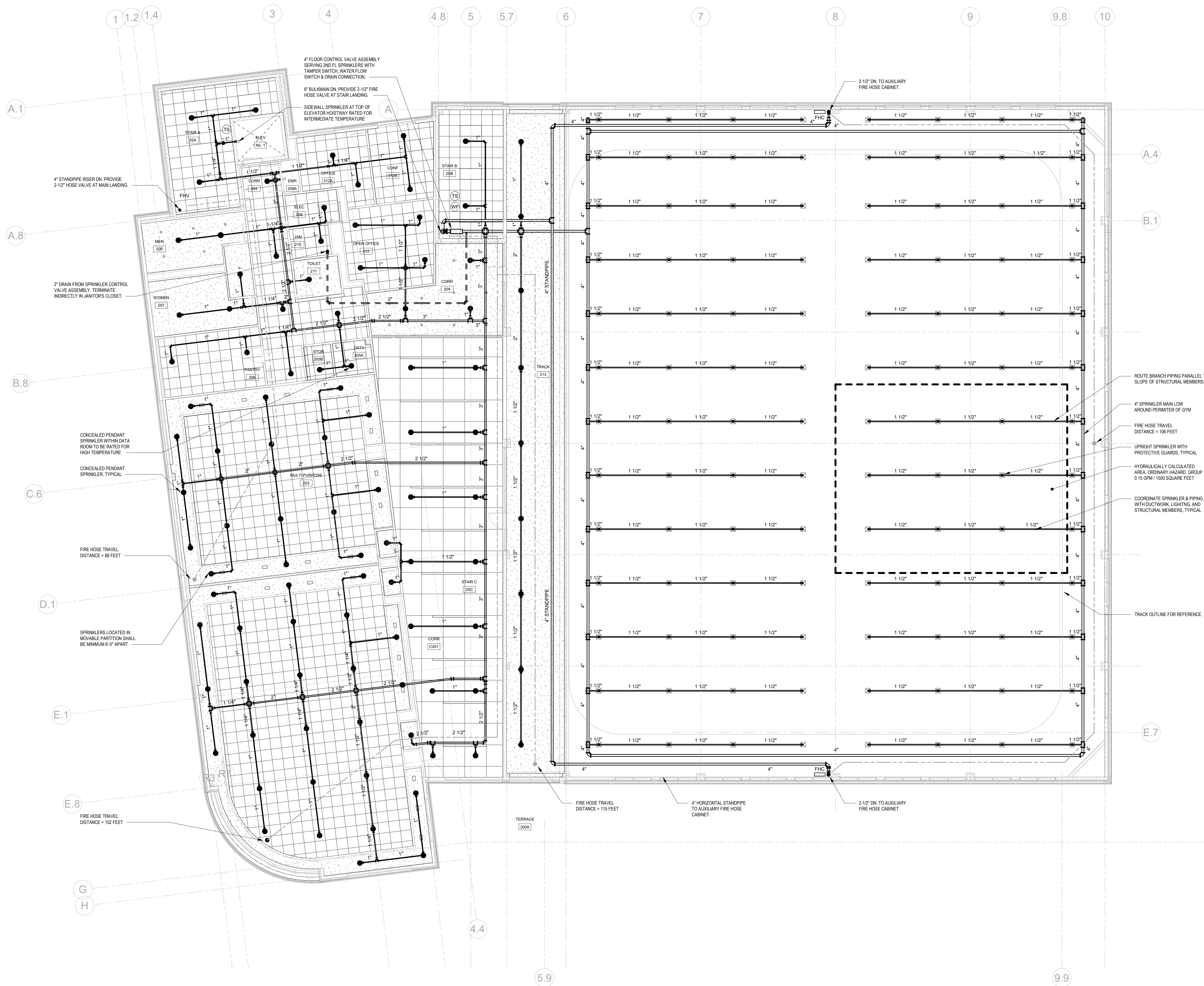
Sheet Title

**FIRE PROTECTION
2ND FLOOR PLAN**

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| Scale | AS NOTED | Drawn / Checked | AM / CD |

Sheet Number

FP-203



FIRE PROTECTION 2ND FLOOR PLAN

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

NOTES:

- TAMPER SWITCHES SHALL BE BY SPRINKLER CONTRACTOR. TYPICAL.

| HYDRAULIC CALCULATION DATA | |
|-------------------------------------|----------------------|
| LOCATION: | SECOND FLOOR |
| SYSTEM: | MANUAL WET STANDPIPE |
| DEMAND REQUIREMENTS: | 750 GPM AT 135 PSI |
| AVAILABLE RESIDUAL PRESSURE AT FDC: | 62 PSI |
| REQUIRED PRESSURE BOOST AT FDC: | 750 GPM AT 75 PSI |

| HYDRAULIC CALCULATION DATA | |
|--------------------------------|-------------------|
| LOCATION: | 2ND FL GYMNASIUM |
| SYSTEM: | WET |
| HAZARD CLASSIFICATION: | ORDINARY HAZARD 1 |
| DENSITY: | 0.15 GPM / SQ FT |
| AREA OF APPLICATION: | 1500 SF |
| NO. OF SPRINKLERS CALCULATED: | 12 |
| COVERAGE PER SPRINKLER: | 130 SQ. FT. MAX. |
| K-FACTOR: | 5.6 |
| OFFICE SIZE (IN): | 1/2 |
| SPRINKLER DEMAND REQUIREMENTS: | 240 GPM AT 53 PSI |
| HOSE ALLOWANCE: | 250 GPM |
| TOTAL SPRINKLER: | 490 GPM AT 53 PSI |
| TOTAL SPRINKLER & HOSE DEMAND: | 490 GPM AT 66 PSI |
| AVAILABLE SUPPLY: | 490 GPM AT 66 PSI |

SPRINKLER HEAD SCHEDULE

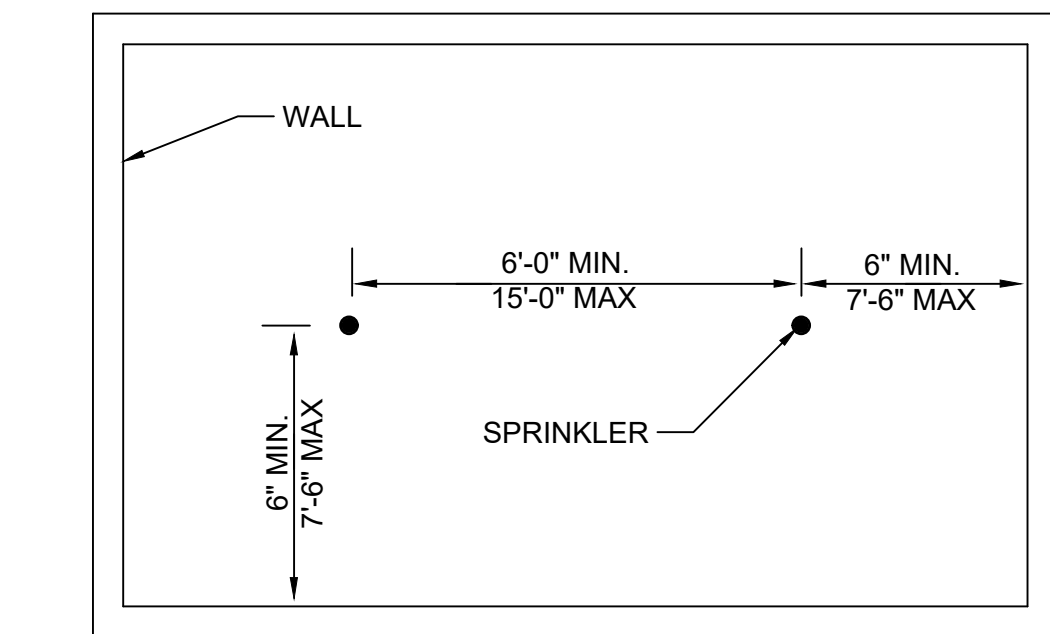
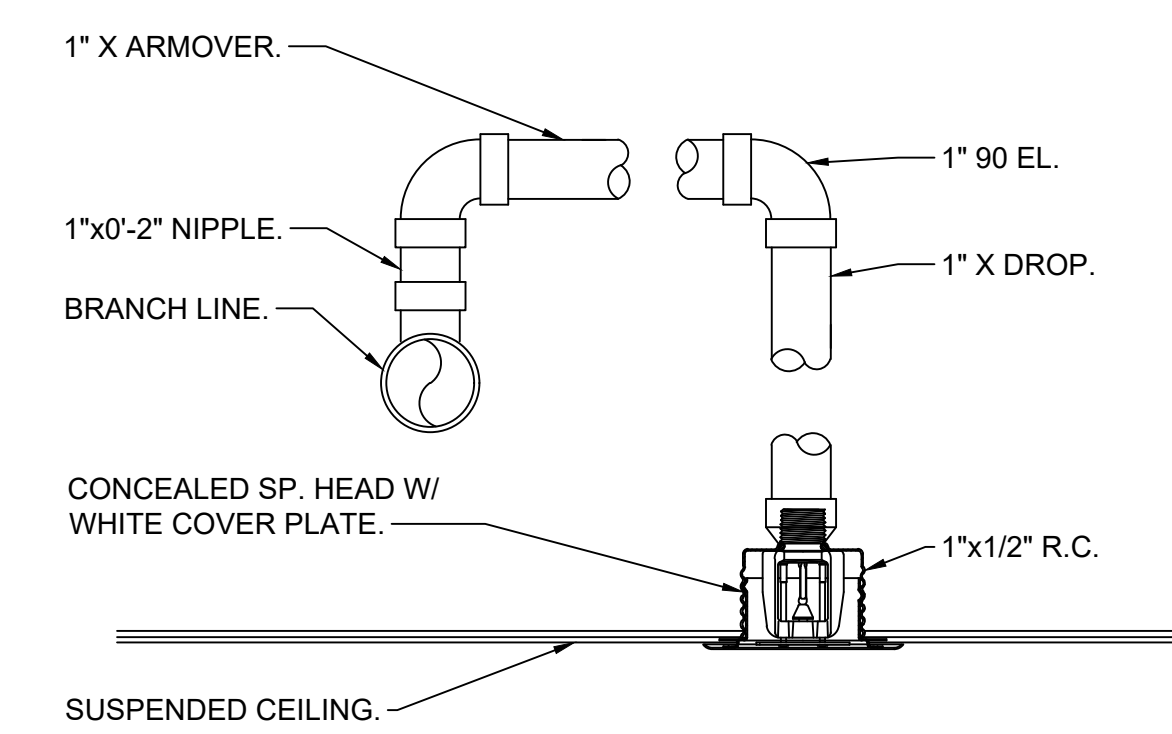
| SYM. | TYPE | LOCATION | FINISH | MANUF. | MODEL | HEAD TEMP. | MAX CEILING TEMP. | ORIFICE | K-FACTOR | MEA# |
|------|--------------|-----------------------------------|---------------------------------|----------|-------|------------|-------------------|---------|----------|----------|
| ⊗ | CONCEALED | FINISHED AREAS PER PLANS | COVER PLATE COLOR PER ARCHITECT | RELIABLE | G5-56 | 165°F | 100°F | ½" | 5.6 | 258-93-E |
| ⊗ | CONCEALED | DATA 111 / DATA 205A | COVER PLATE COLOR PER ARCHITECT | RELIABLE | F1-FR | 286°F | 225°F | ½" | 5.6 | 258-93-E |
| ⊗ | CONCEALED | MECH 112A | COVER PLATE COLOR PER ARCHITECT | RELIABLE | G5-56 | 212°F | 150°F | ½" | 5.6 | 258-93-E |
| ○ | UPRIGHT | EXPOSED AREAS PER PLANS | CHROME PLATED | RELIABLE | F1FR | 165°F | 100°F | ½" | 5.6 | 258-93-E |
| ○ | UPRIGHT DRY | EXPOSED AREAS PER PLANS | CHROME PLATED | RELIABLE | F1FR | 165°F | 100°F | ½" | 5.6 | 258-93-E |
| ○ | UPRIGHT DRY | MECH B06 / PARKING B01 / MECH 122 | CHROME PLATED | RELIABLE | F1-FR | 200° | 165°F | ½" | 5.6 | 258-93-E |
| ◀ | DRY SIDEWALL | EXPOSED AREAS PER PLANS | CHROME PLATED | RELIABLE | F3QR | 165°F | 100°F | ½" | 5.6 | 258-93-E |
| ◀ | DRY SIDEWALL | ELEV NO. 1 HOISTWAY | CHROME PLATED | RELIABLE | F3QR | 200° | 165°F | ½" | 5.6 | 258-93-E |
| ◀ | SIDEWALL | EXPOSED AREAS PER PLANS | CHROME PLATED | RELIABLE | F1-FR | 165°F | 100°F | ½" | 5.6 | 258-93-E |
| ◀ | SIDEWALL | ELEV NO. 1 PIT | CHROME PLATED | RELIABLE | F1-FR | 200° | 165°F | ½" | 5.6 | 258-93-E |

NOTES:
 1. SPRINKLER HEADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS
 2. PROVIDE METAL WIRE GUARDS WHERE SPRINKLERS ARE SUBJECT TO DAMAGE, SUCH AS SPRINKLER HEADS LOCATED UNDER MECHANICAL DUCTS IN MECHANICAL EQUIPMENT ROOMS WHEN LOCATED LOWER THAN 7'-0" AFF AND HEADS IN TRASH CHUTE.
 3. ALL SPRINKLER HEADS THROUGHOUT THE PROJECT AREA SHALL BE OF THE ORDINARY TEMPERATURE RATING EXCEPT AS FOLLOWS:
 3.1. SPRINKLER HEADS LOCATED CLOSE TO HEATERS, HOT WATER PIPING OR LOW-PRESSURE BLOW-OFF VALVE SHALL BE OF THE TEMPERATURE RATING AS REQUIRED BY NFPA-13.
 3.2. ALL HEAT GENERATING EQUIPMENT WHICH CAN AFFECT THE TEMPERATURE RATING OF THE SPRINKLER HEADS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR APPROVAL.

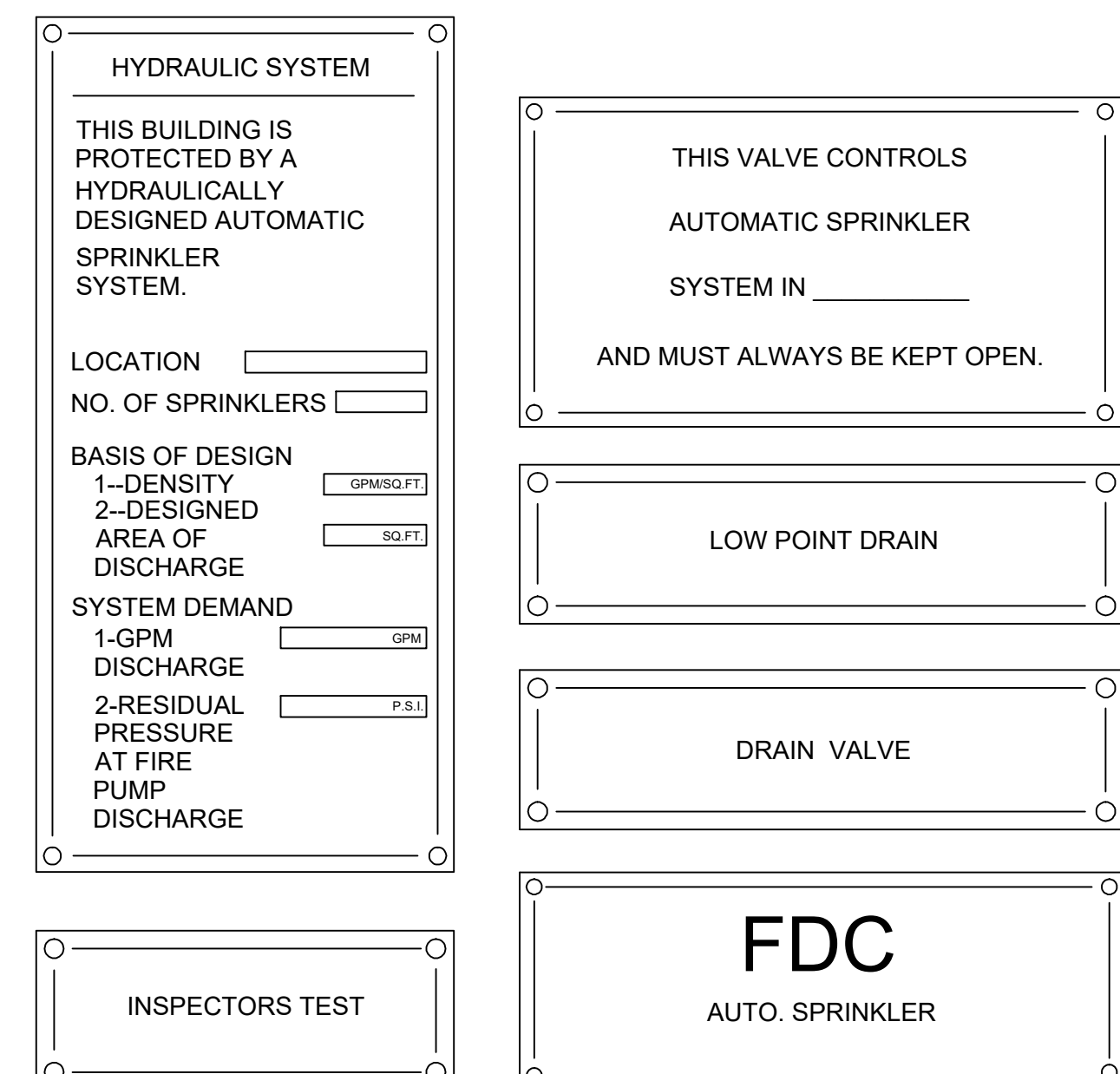
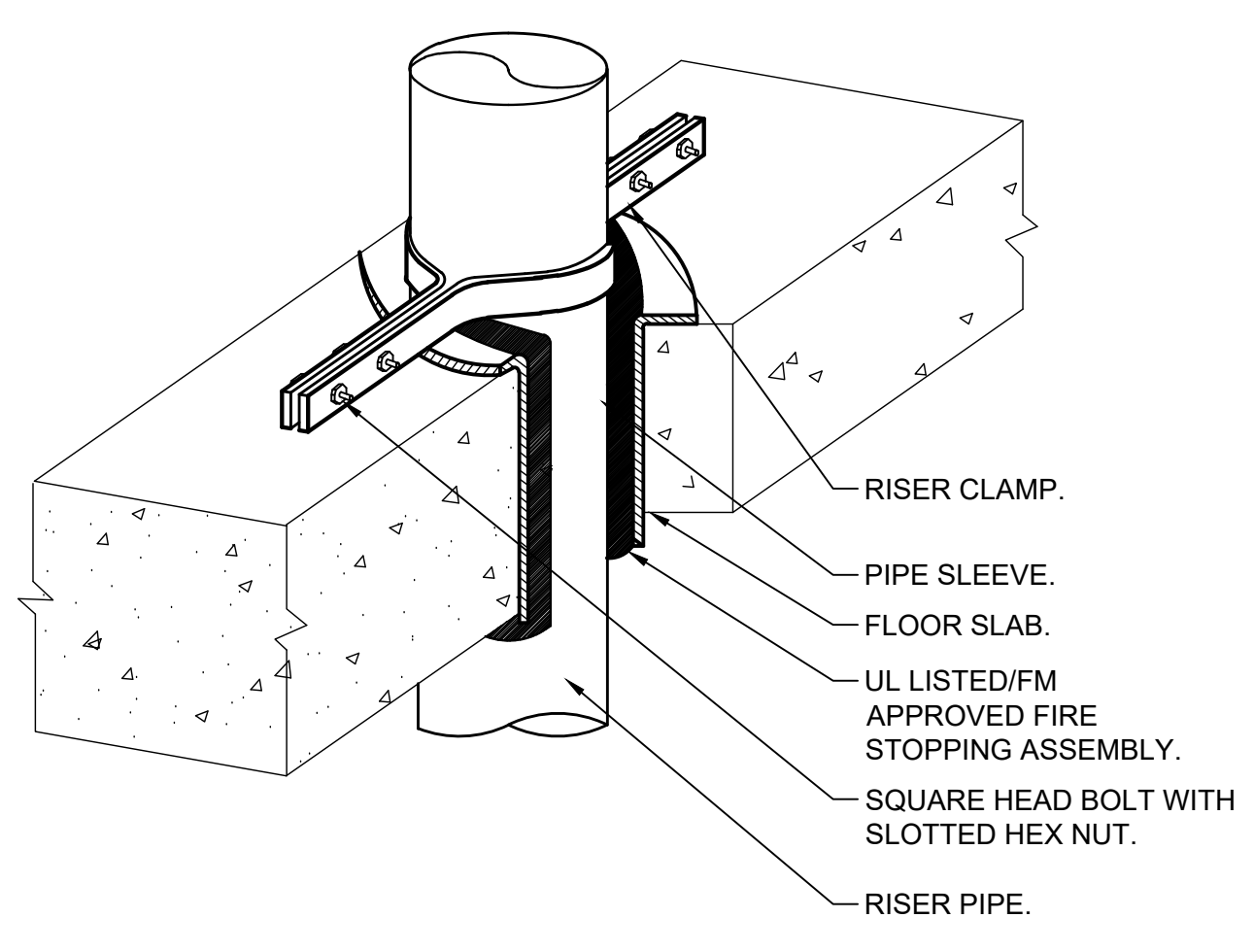
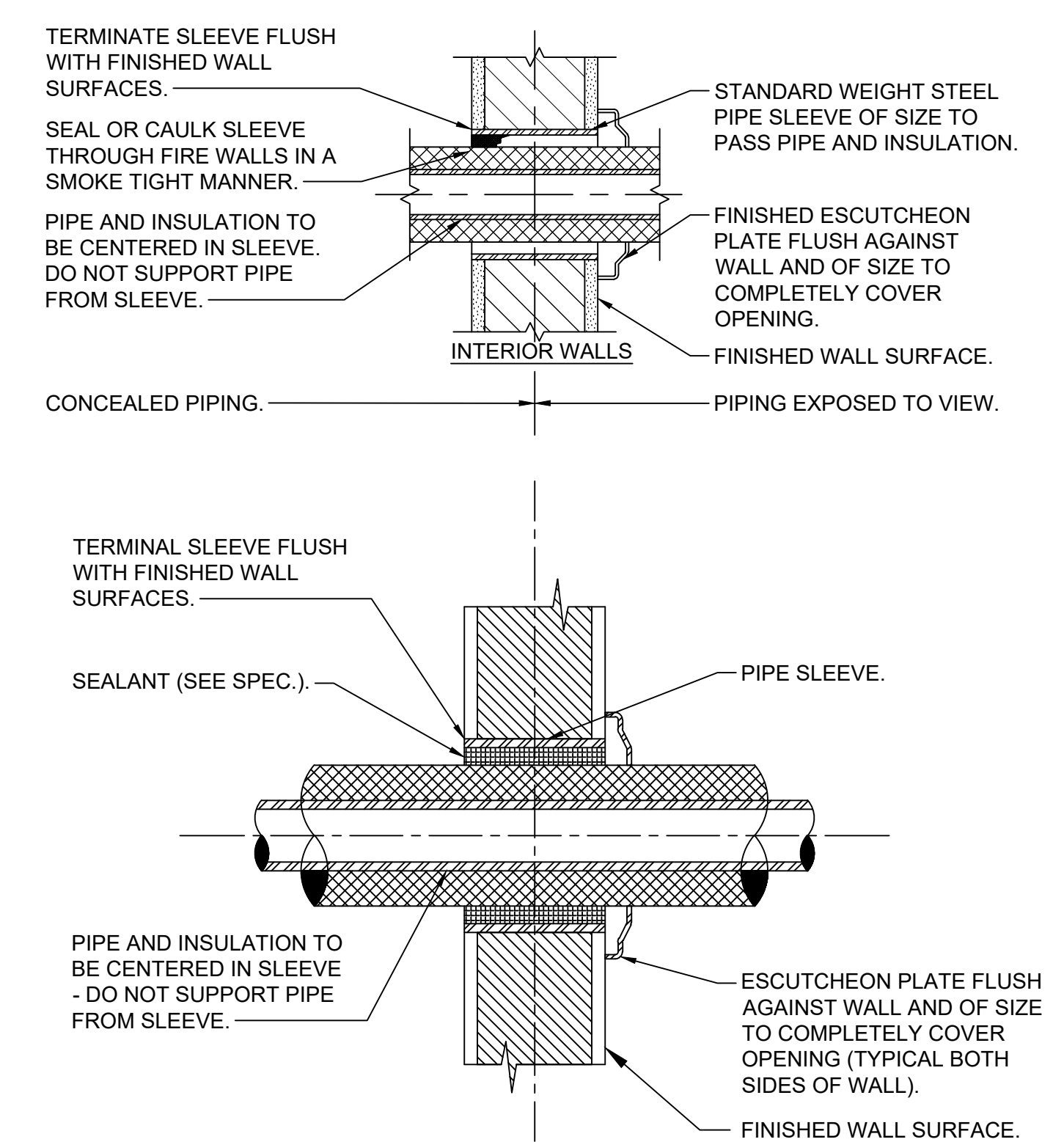
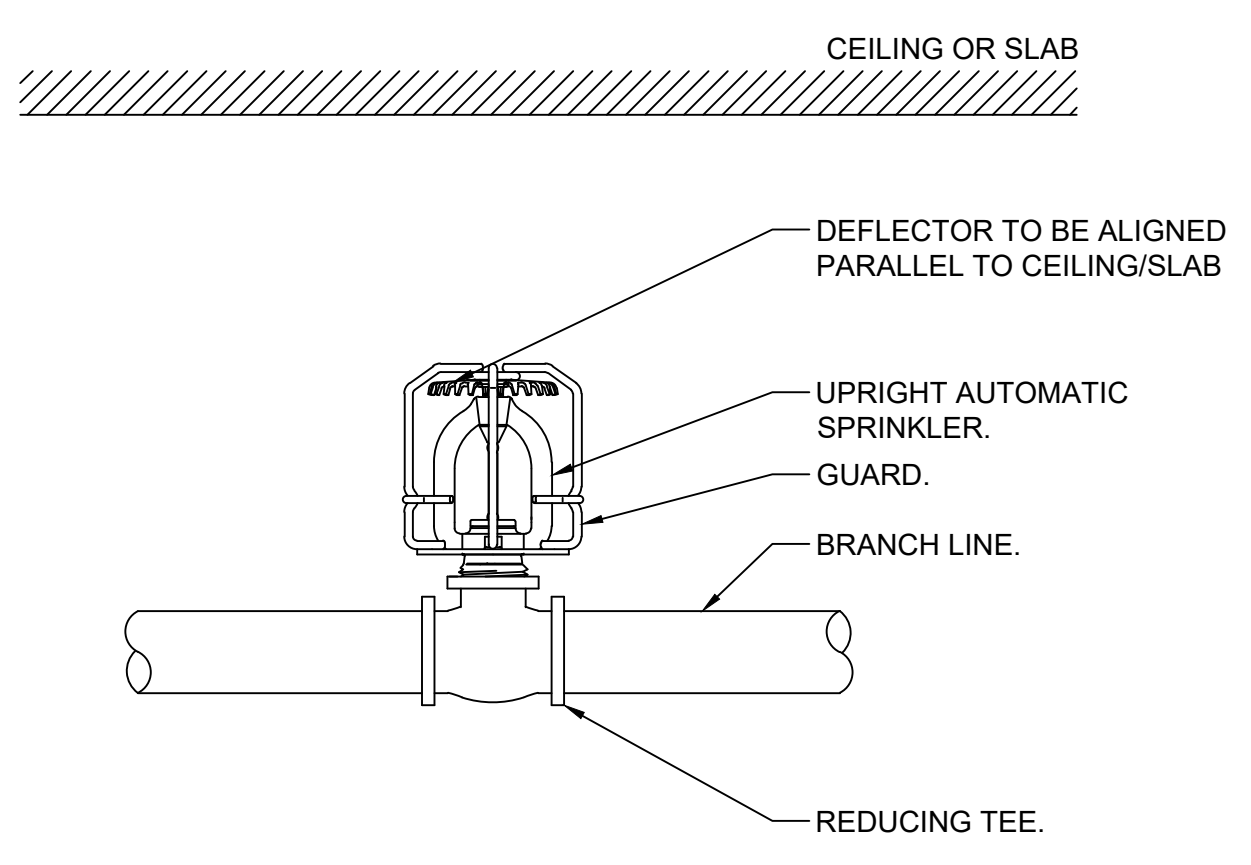
11 SPRINKLER HEAD SCHEDULE
SCALE: NONE

6 TYPICAL CONCEALED PENDENT SPRINKLER
SCALE: NONE

3 SPRINKLER HEAD SPACING CRITERIA
SCALE: NONE



| | MAX AREA PER HEAD | DENSITY PER 1500 SQ. FT. |
|-----------------|-------------------|--------------------------|
| LIGHT HAZARD | 225 SQ. FT. | 0.10 GPM/SQ. FT. |
| ORDINARY HAZARD | 130 SQ. FT. | 0.15 GPM/SQ. FT. |

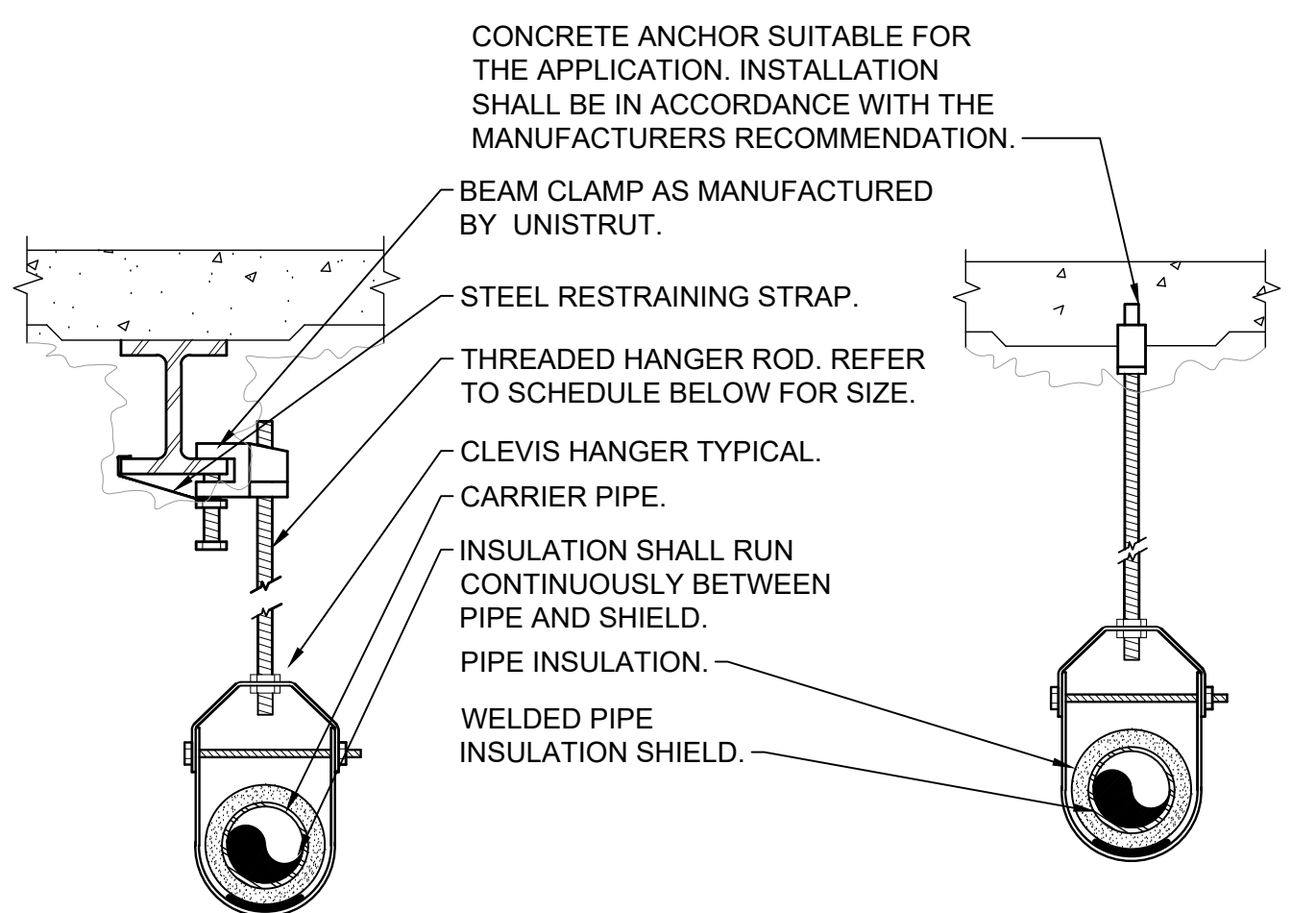
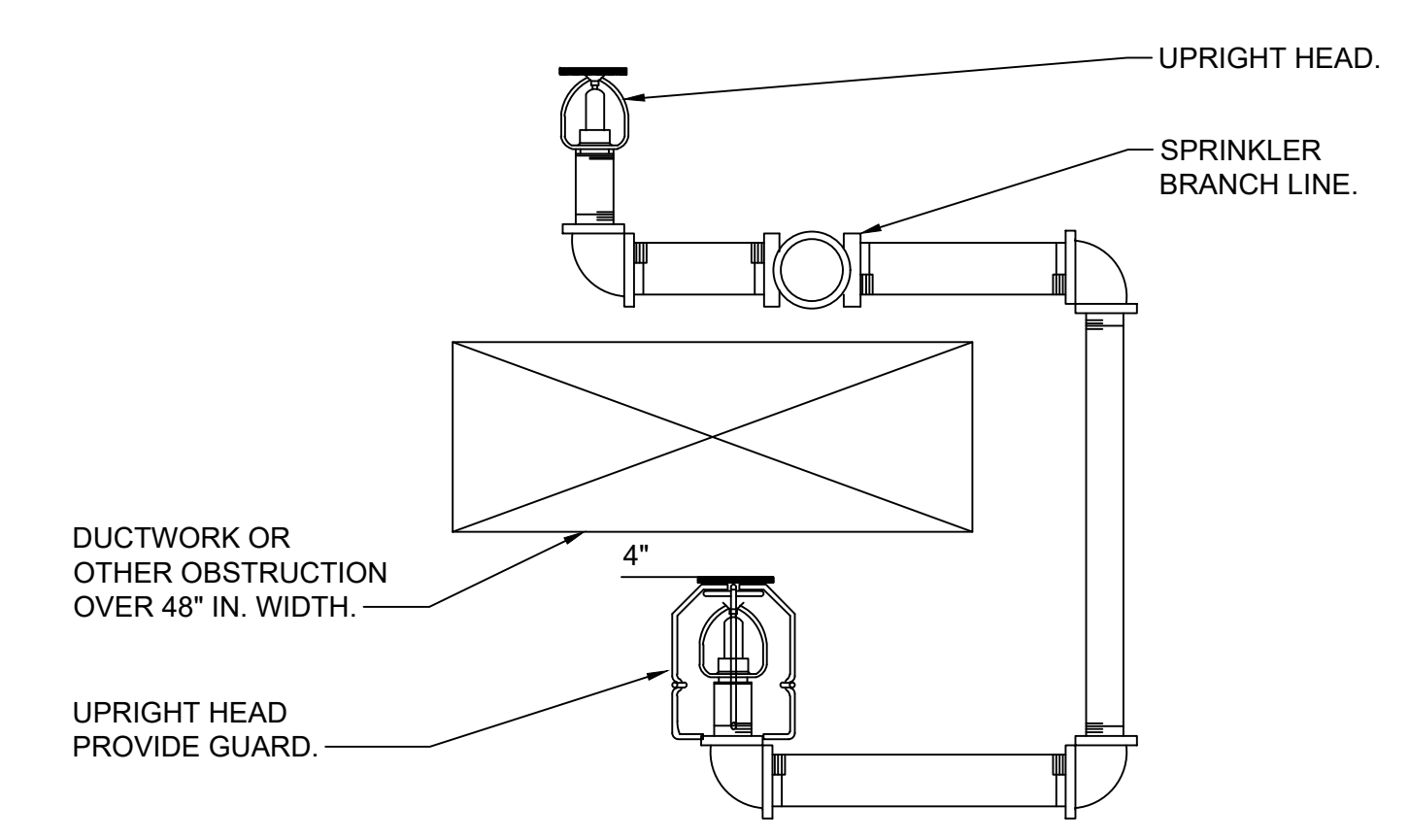
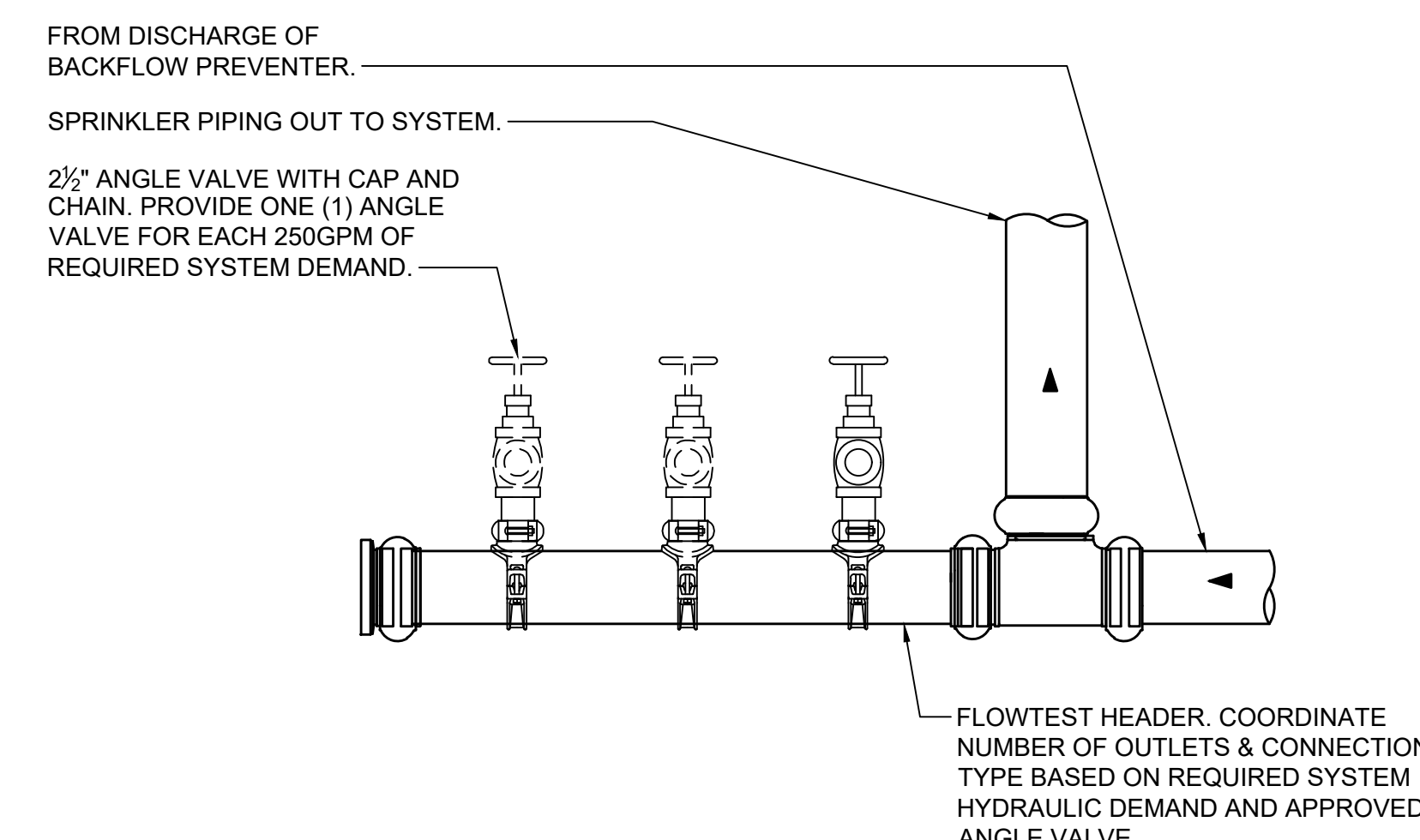


10 TYPICAL UPRIGHT SPRINKLER WITH GUARD
SCALE: NONE

8 PIPE WALL SLEEVE DETAIL
SCALE: NONE

5 PIPE PENETRATION DETAIL
SCALE: NONE

2 TYPICAL SIGNS
SCALE: NONE



| PIPE DIA. | 3/4"-2" | 2 1/2"-3" | 4"-5" | 6" | 8"-12" |
|-------------|---------|-----------|-------|------|--------|
| HANGER DIA. | 3/8" | 1/2" | 5/8" | 3/4" | 7/8" |

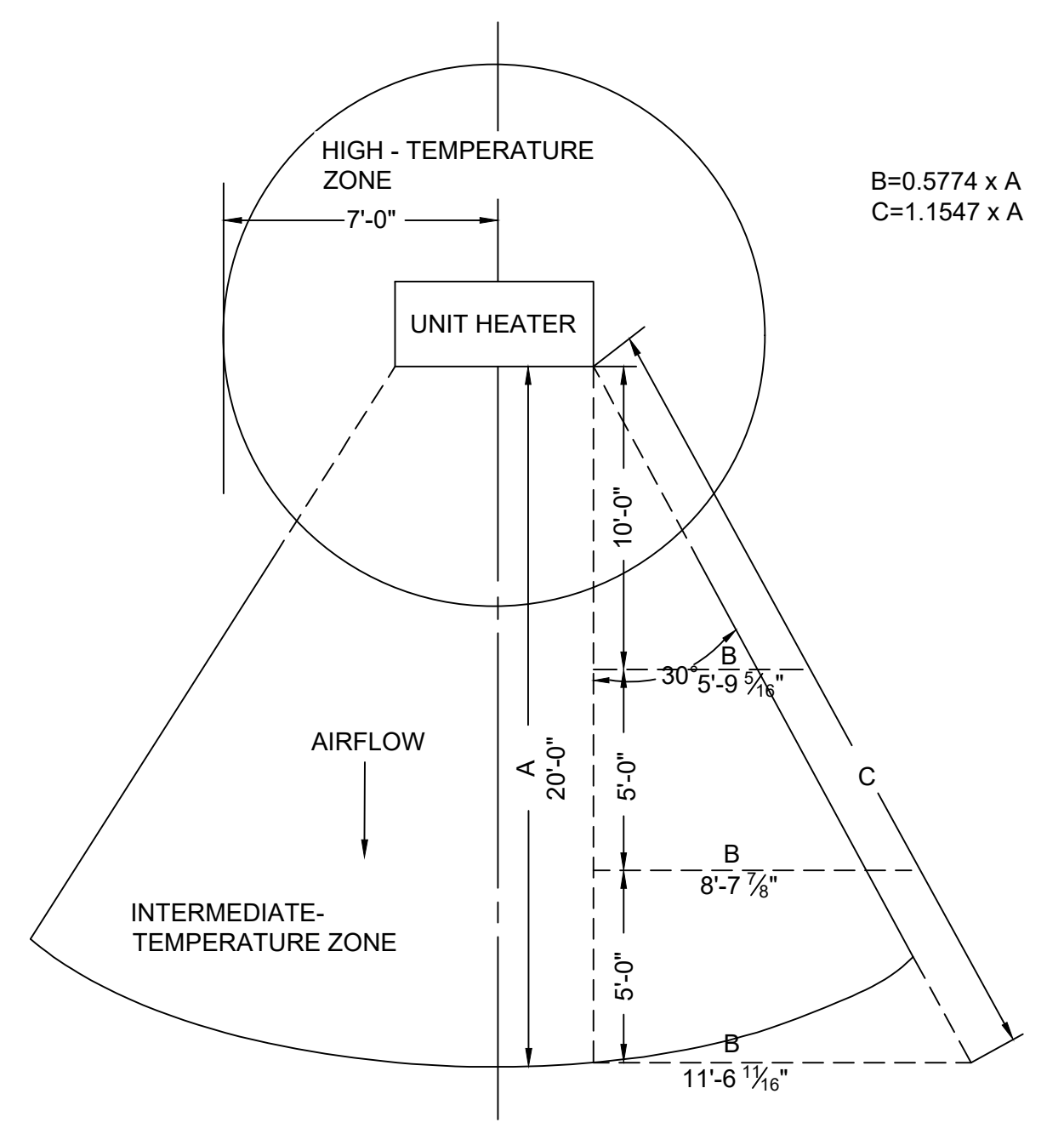
NOTES:
 1.) CLEVIS HANGERS WITH WELDED INSULATION SHIELDS ON ALL PIPES LARGER THAN 1".
 2.) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED.
 3.) FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
 4.) ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
 5.) FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
 6.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

9 BACKFLOW PREVENTER SPRINKLER SYSTEM FORWARD FLOW TEST ASSEMBLY
SCALE: NONE

7 SPRINKLER DETAIL ABOVE AND BELOW DUCT DETAIL
SCALE: NONE

4 PIPE HANGER DETAIL
SCALE: NONE

1 SPRINKLER TEMPERATURE ZONES AT UNIT HEATERS
SCALE: NONE



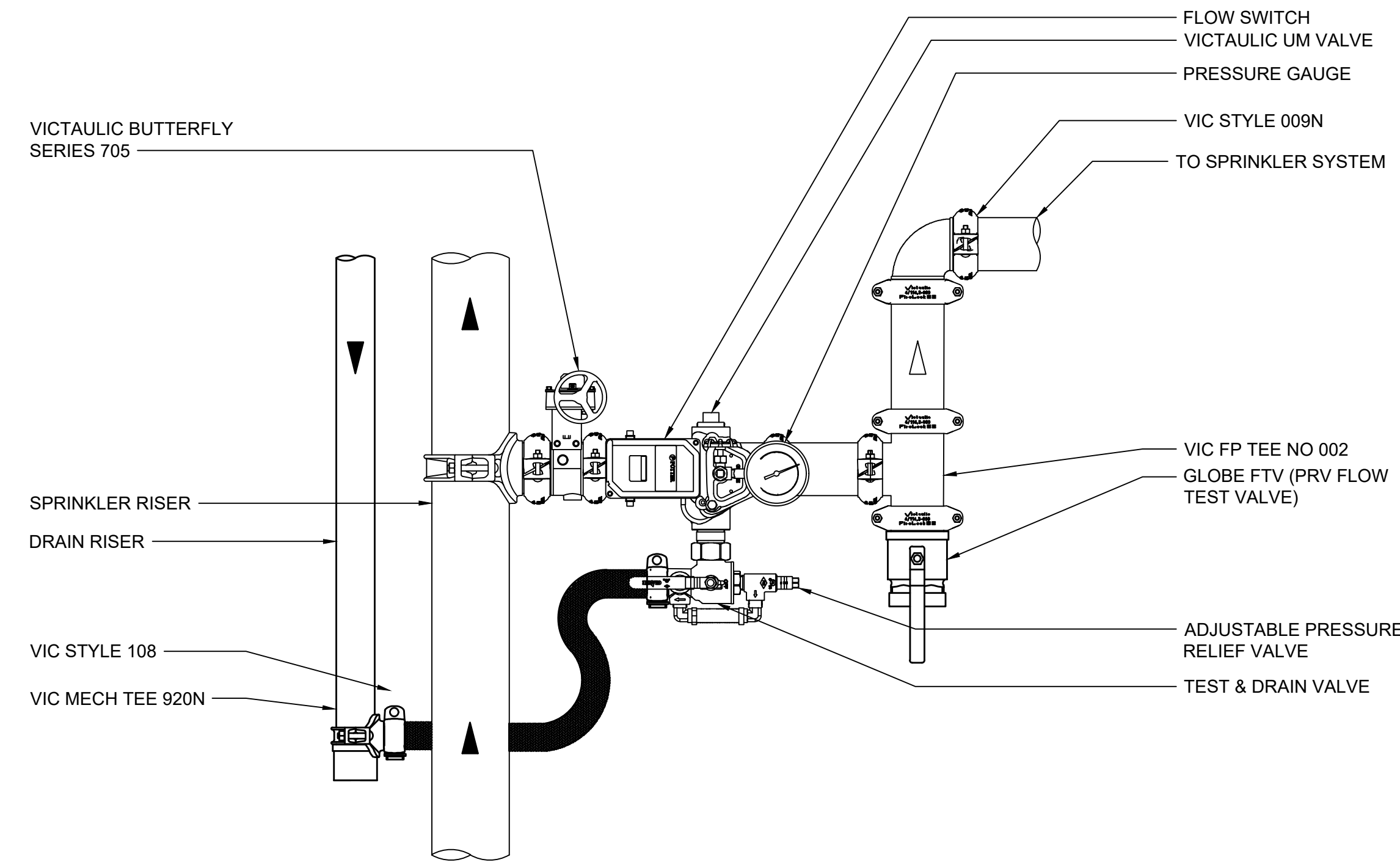
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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

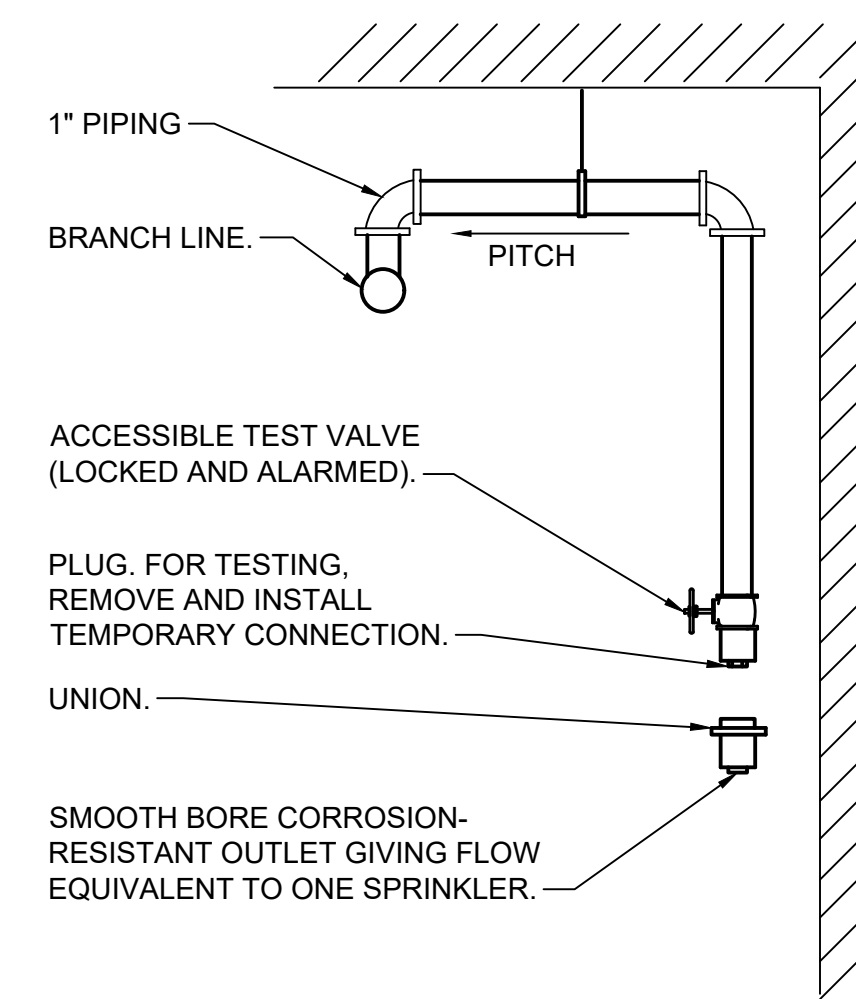
Sheet Title

| FIRE PROTECTION DETAILS 1 OF 3 | |
|--------------------------------|-------------|
| Job No. | NKGD0207.00 |
| Date | 03/01/2024 |
| Scale | AS NOTED |
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| Sheet Number | FP-701 |



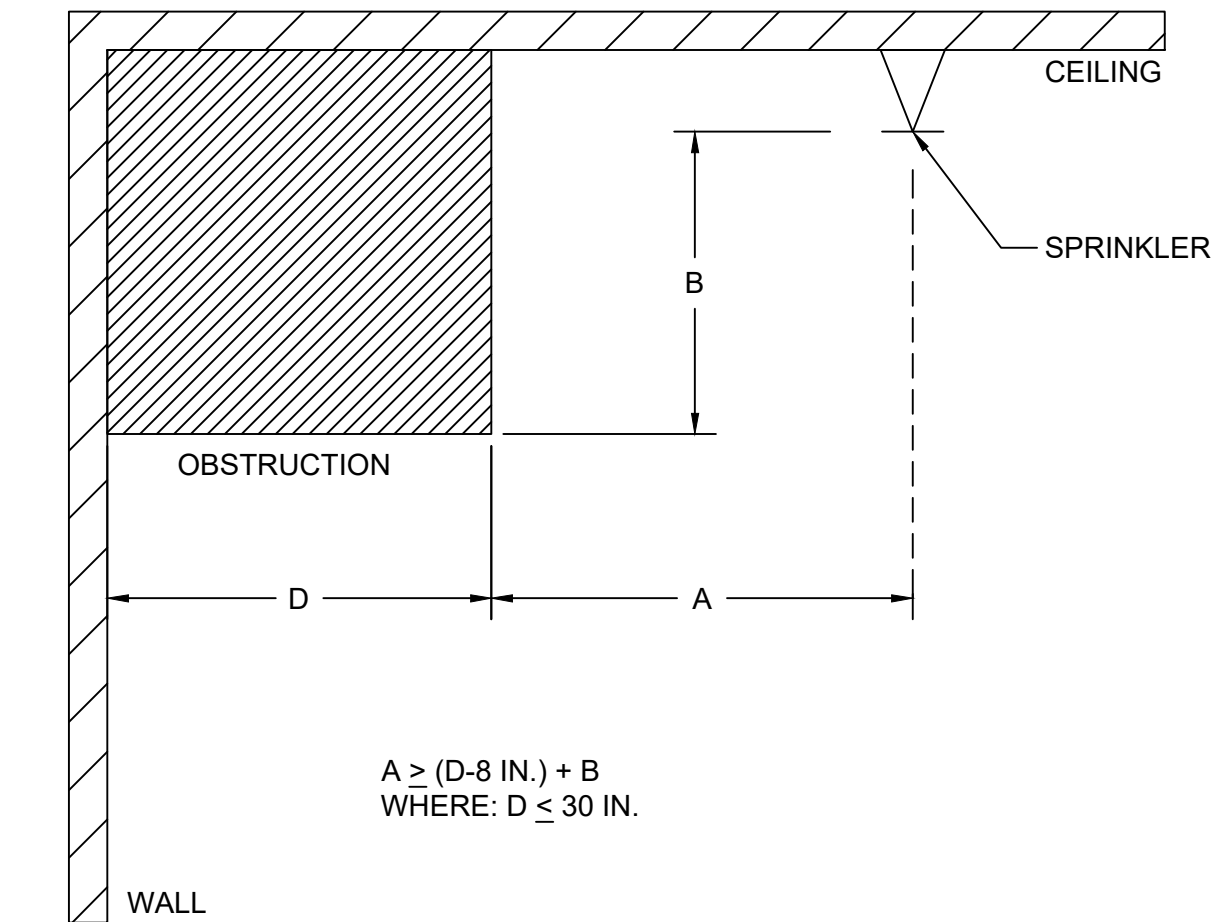
- NOTES:
1. DETAIL BASED ON VICTAULIC SERIES UMC UNIVERSAL MANIFOLD CHECK ASSEMBLY.
 2. FIRE LOCK ZONE CONTROL RISER MODULE WITH PRESSURE REDUCING VALVE SUITABLE FOR HORIZONTAL OR VERTICAL UPFLOW ORIENTATION.
 3. WHERE UNIVERSAL MANIFOLD CHECK VALVES ARE SPECIFIED FOR USE IN WET-PIPE SPRINKLER SYSTEMS, AS FLOOR CONTROL MANIFOLDS THEY SHALL BE SPECIFICALLY LISTED FOR SUCH USE. UNIVERSAL MANIFOLD CHECK VALVES SHALL BE DUCTILE IRON CONSTRUCTION, INCORPORATING A CONTROL VALVE, CHECK VALVE, FLOW SWITCH, TEST & DRAIN ASSEMBLY, ADJUSTABLE RELIEF VALVE, AND SYSTEM GAUGES IN ONE COMPACT BODY/FOOTPRINT AND SHALL BE MANUFACTURED FOR "RIGHT" AND "LEFT" HAND ORIENTATIONS. THE TEST & DRAIN ASSEMBLY SHALL CONTAIN AN ADJUSTABLE RELIEF VALVE, WITH A RANGE OF 175 TO 310 PSI.

7 SPRINKLER ZONE CONTROL RISER MODULE
SCALE: NONE

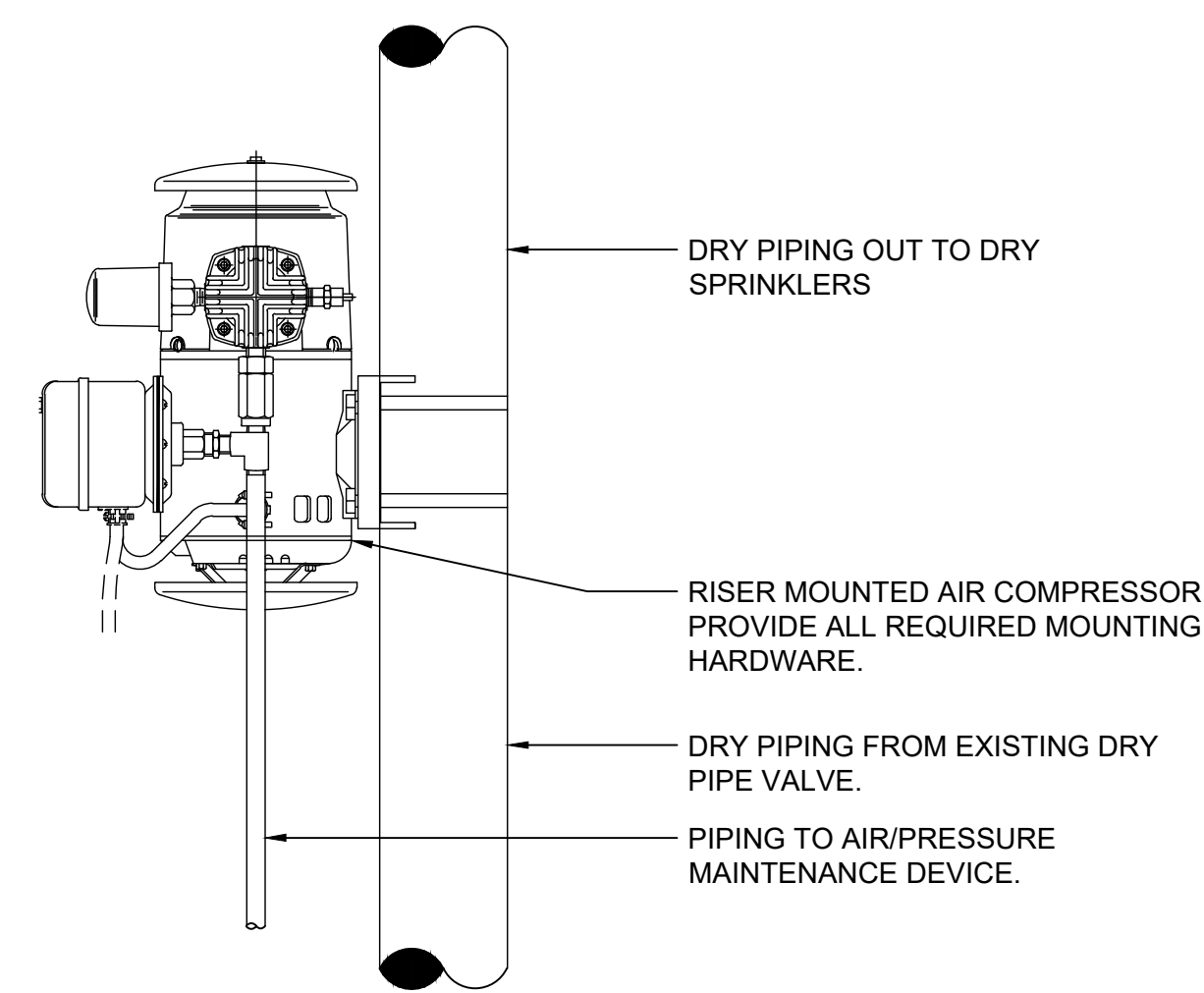


NOTE:
PROVIDE A NIPPLE-UP OFF OF BRANCH LINE TO MINIMIZE CONDENSATION IN TEST DROP.

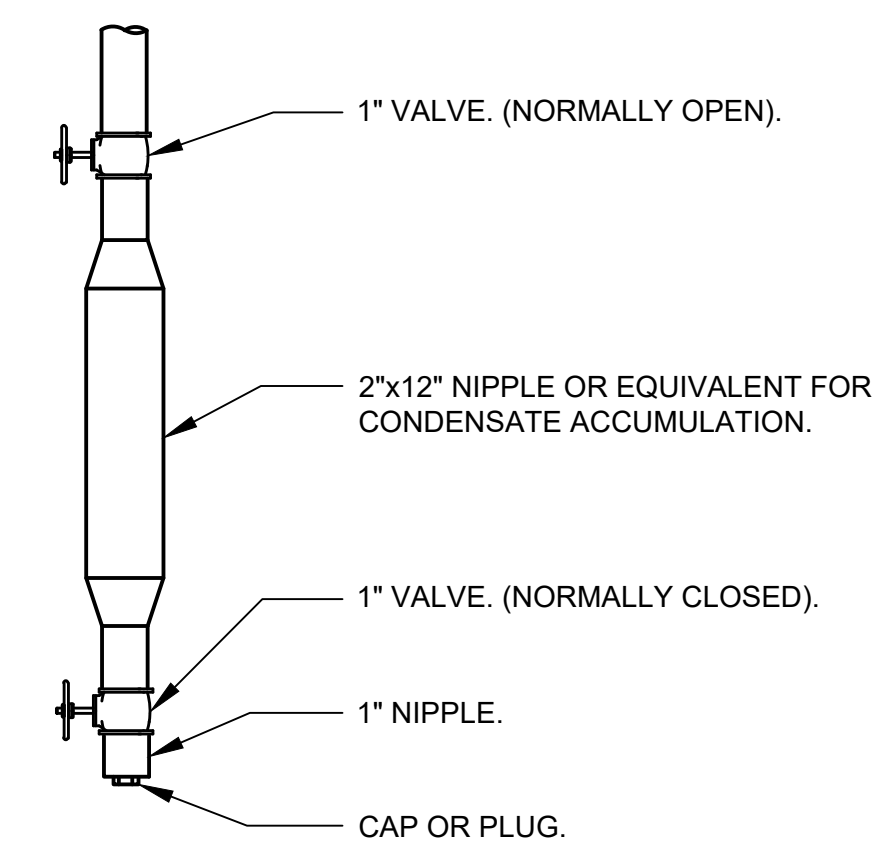
4 DRY SYSTEM INSPECTOR'S TEST
SCALE: NONE



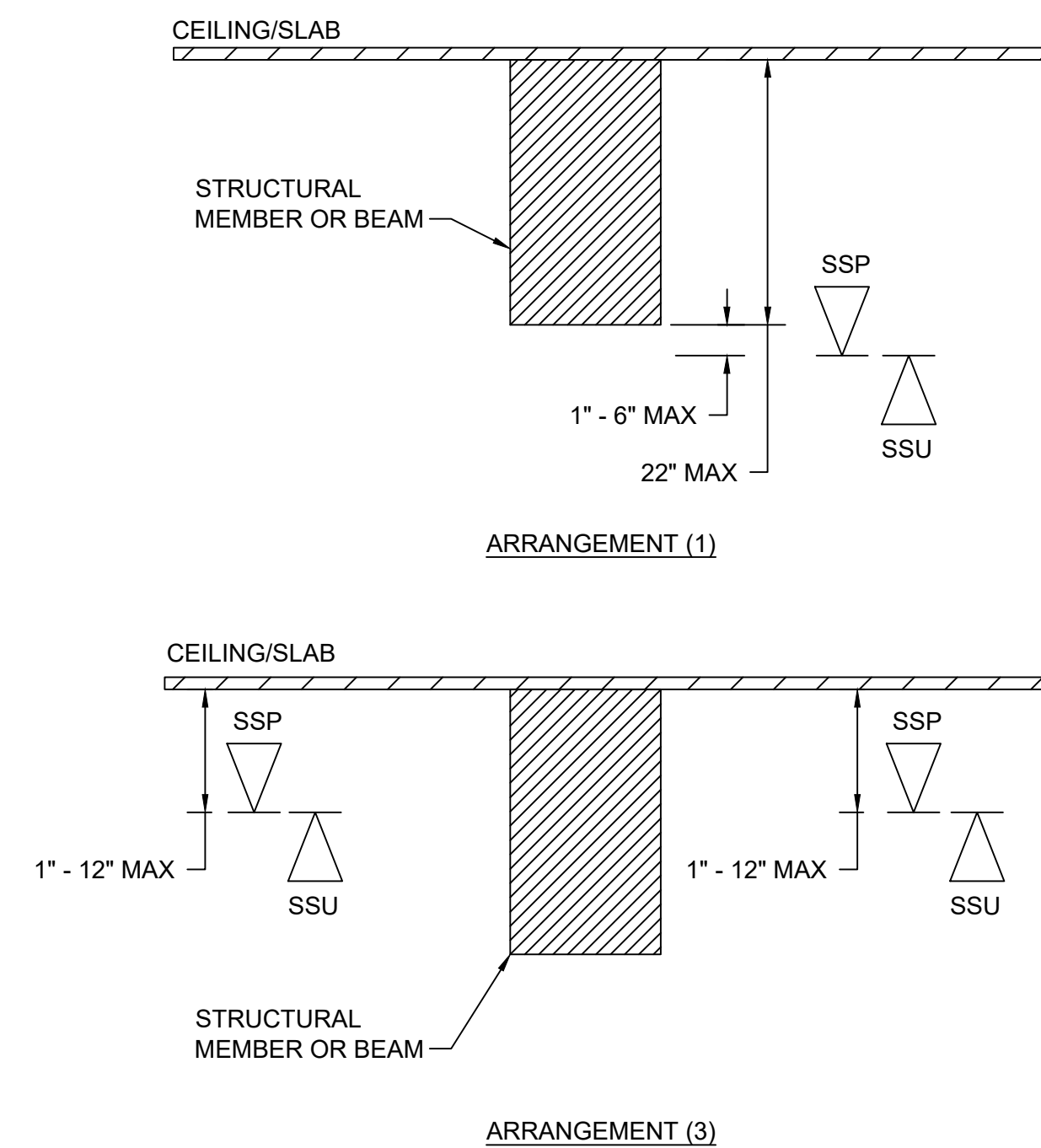
2 OBSTRUCTION AGAINST WALL
STANDARD SPRAY UPRIGHT/PENDENT (SSU/SSP)
SCALE: NONE



6 DRY SYSTEM RISER MOUNTED AIR COMPRESSOR
SCALE: NONE

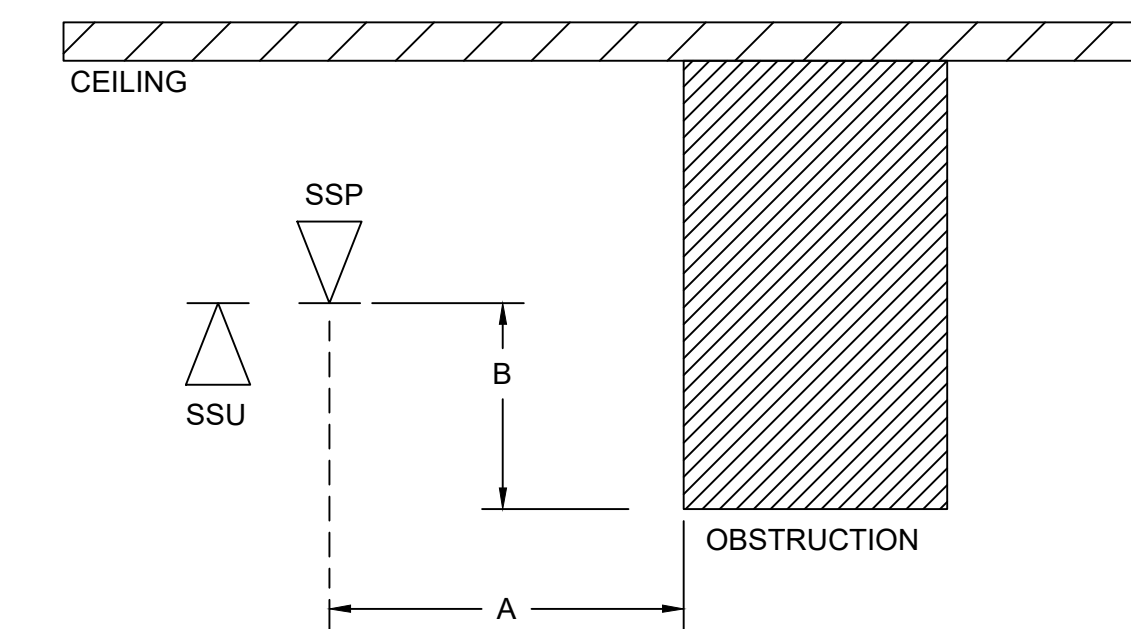


5 DRY SYSTEM LOW POINT DRAIN
SCALE: NONE



- NOTE: SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 REQUIREMENTS FOR SECTION 8.6.4.1.2 - OBSTRUCTED CONSTRUCTION: UNDER OBSTRUCTED CONSTRUCTION, THE SPRINKLER DEFLECTOR SHALL BE LOCATED IN ACCORDANCE WITH ONE OF THE FOLLOWING ARRANGEMENTS:
1. INSTALLED WITH THE DEFLECTORS WITHIN THE HORIZONTAL PLANES OF 1 IN. TO 6 IN. BELOW THE STRUCTURAL MEMBERS AND A MAXIMUM DISTANCE OF 22 IN. BELOW THE CEILING/ROOF DECK
 2. INSTALLED WITH THE DEFLECTORS AT OR ABOVE THE BOTTOM OF THE STRUCTURAL MEMBER TO A MAXIMUM OF 22 IN. BELOW THE CEILING/ROOF DECK WHERE THE SPRINKLER IS INSTALLED IN CONFORMANCE WITH 8.6.5.1.2. REFER TO DETAIL #2.
 3. INSTALLED IN EACH BAY OF OBSTRUCTED CONSTRUCTION, WITH THE DEFLECTORS LOCATED A MINIMUM OF 1 IN. AND A MAXIMUM OF 12 IN. BELOW THE CEILING

3 OBSTRUCTED CONSTRUCTION DETAIL
SCALE: NONE



POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTIONS TO DISCHARGE (SSU/SSP)

| DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION (A) (IN.) | MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (B) (IN.) |
|---|---|
| LESS THAN 1 FT | 0" |
| 1 FT TO LESS THAN 1 FT 6 IN | 2 1/2" |
| 1 FT 6 IN. TO LESS THAN 2 FT | 3 1/2" |
| 2 FT TO LESS THAN 2 FT 6 IN | 5 1/2" |
| 2 FT 6 IN. TO LESS THAN 3 FT | 7 1/2" |
| 3 FT TO LESS THAN 3 FT 6 IN | 9 1/2" |
| 3 FT 6 IN. TO LESS THAN 4 FT | 12" |
| 4 FT TO LESS THAN 4 FT 6 IN | 14" |
| 4 FT 6 IN. TO LESS THAN 5 FT | 16 1/2" |
| 5 FT TO LESS THAN 5 FT 6 IN | 18" |
| 5 FT 6 IN. TO LESS THAN 6 FT | 20" |
| 6 FT TO LESS THAN 6 FT 6 IN | 24" |
| 6 FT 6 IN. TO LESS THAN 7 FT | 30" |
| 7 FT TO LESS THAN 7 FT 6 IN | 36" |

NOTE: REFER TO NFPA 13 (2013) TABLE 8.6.5.1.2.

1 OBSTRUCTION TO DISCHARGE (SSU/SSP)
SCALE: NONE

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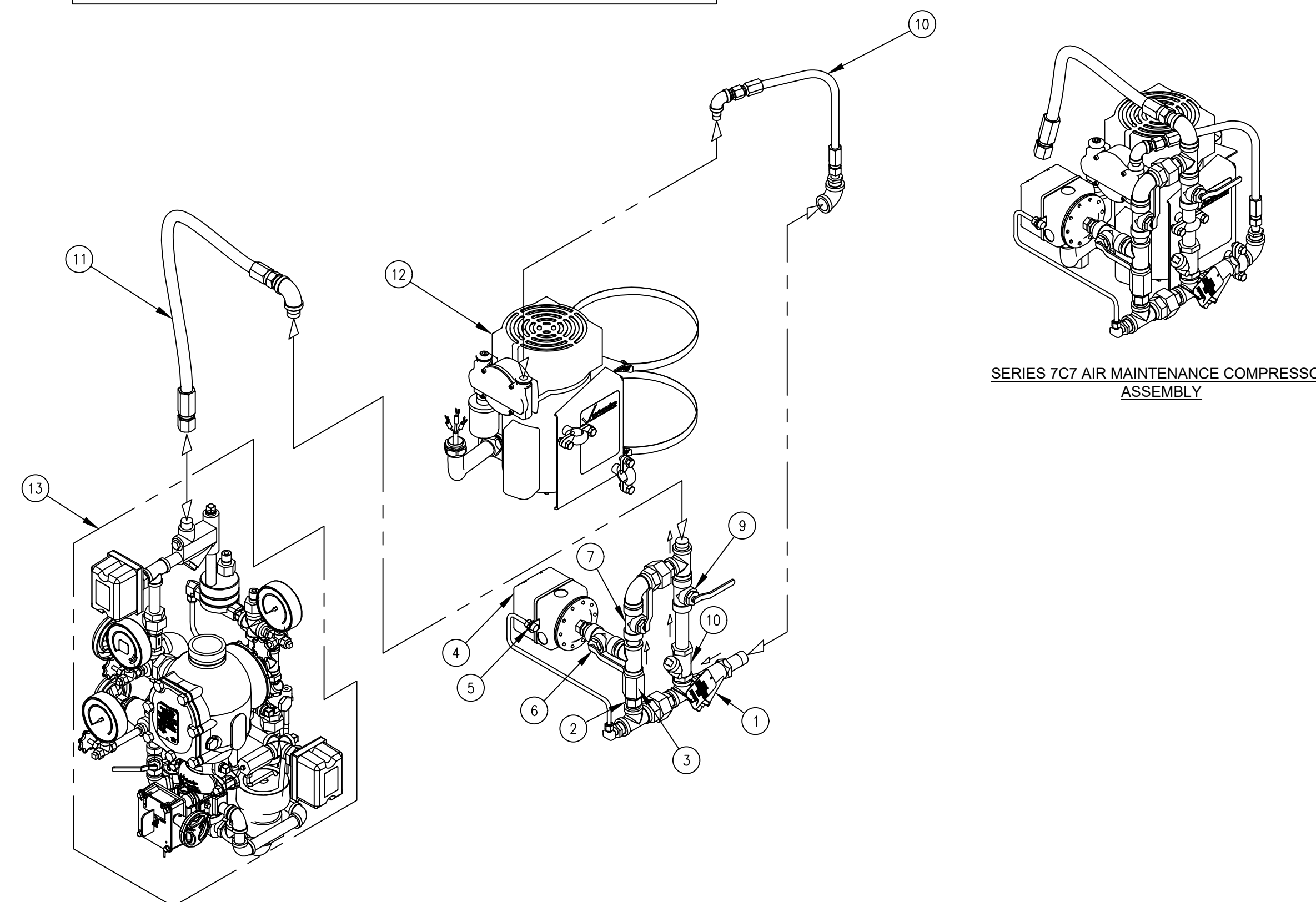
FIRE PROTECTION DETAILS 2 OF 3

Job No. NKGD0207.00 Date 03/01/2024

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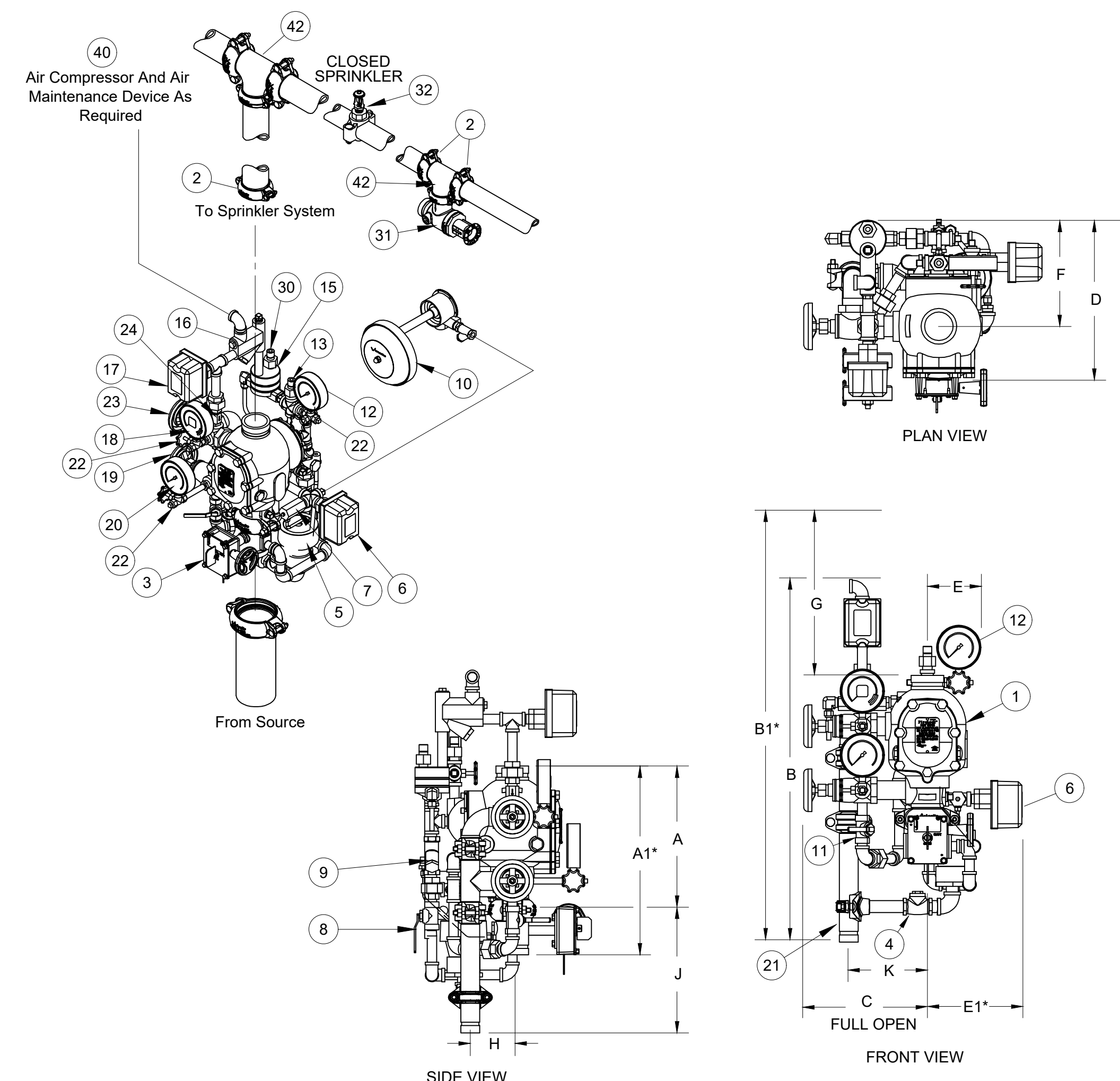
Sheet Number **FP-702**

| PRODUCT LEGEND | |
|--------------------------------------|--|
| 1 | STRAINER (1/2-INCH NPT) |
| 2 | SPRING-LOADED, SOFT-SEATED CHECK VALVE |
| 3 | RESTRICTOR (1/2-INCH NPT)(1/8 RESTRICTOR) |
| 4 | PRESSURE SWITCH |
| 5 | UNLOADER VALVE |
| 6 | PRESSURE SWITCH ISOLATION BALL VALVE (NORMALLY OPEN-LOCKABLE) |
| 7 | SLOW-FILL BALL VALVE (NORMALLY OPEN) |
| 8 | SWING CHECK (1/2-INCH NPT) |
| 9 | FAST FILL BALL VALVE (NORMALLY CLOSED) |
| 10 | STAINLESS STEEL BRAIDED FLEX HOSE (1/2-INCH NPT MALE X FEMALE) |
| 11 | STAINLESS STEEL BRAIDED FLEX HOSE (1/2-INCH NPT MALE X FEMALE) |
| 12 | AIR COMPRESSOR |
| 13 | FIRELOCK NXT DEVICE |
| SEE VICTAULIC SUBMITTAL NUMBER 30 22 | |



NOTES:
1. EQUIPMENT BASED ON VICTAULIC OR APPROVED EQUAL.
2. * OPTIONAL EQUIPMENT.

2 DRY SYSTEM - AIR MAINTENANCE ASSEMBLY SERIES 7C7
SCALE: NONE



NOTES:
1. EQUIPMENT BASED ON VICTAULIC OR APPROVED EQUAL.
2. * OPTIONAL EQUIPMENT.

1 DRY VALVE ASSEMBLY - VICTAULIC FIRELOCK NXT
SCALE: NONE

| PRODUCT LEGEND | |
|--|---|
| 1 | Series 768 Firelock NXT Dry Valve (see Submittal 30.80) With Optional Vic Quick Riser |
| 2 | Firelock Rigid Couplings 005_009_009V |
| 3 | Series 705 Butterfly Valve (Optional) |
| 4 | Drain Swing Check Valve |
| 5 | Drip Cup |
| 6 | System Sensor EPS10-2 Alarm Pressure Switch |
| 7 | Series 729 Drip Check Valve |
| 8 | Diaphragm-Charge-Line Ball Valve (Normally Open) |
| 9 | 3-in-1 Strainer/Check/Restrictor Assembly |
| 10 | Series 760 Water Motor Alarm (Optional) |
| 11 | Alarm Test Ball Valve |
| 12 | Diaphragm-Charge-Line Pressure Gauge (0-300psi/0-2068kPa) |
| 13 | Series 749 Auto Drain |
| 14 | Series 746-LPA Dry Accelerator Assembly (Optional)(Not Shown) |
| 15 | Series 776 Low-Pressure Actuator |
| 16 | Air Manifold |
| 17 | EPS-45-2V Supervisory Switch (Optional) |
| 18 | System Pressure Gauge (0-80 psi/0-552kPa with Retard) |
| 19 | Water Supply Main Drain Valve - Flow Test |
| 20 | Water Supply Pressure Gauge (0-300psi/0-2068kPa) |
| 21 | Drain Connection Kit (Optional) |
| 22 | Gauge Valve |
| 23 | System Main Drain Valve |
| 24 | Series 748 Ball Check Valve |
| 25 | n/a |
| 26 | Air Feed Valve Assembly (Not Shown) |
| 27 | System Air Line Strainer (Not Shown) |
| 28 | n/a |
| 29 | n/a |
| 30 | Auto Vent for 776 Low Pressure Actuator |
| 31 | Series 720 Testmaster |
| 32 | Upright Sprinkler - Victaulic Model V2703/V2704 |
| 33 | n/a |
| 34 | n/a |
| 35 | n/a |
| 36 | n/a |
| 37 | n/a |
| 38 | n/a |
| 39 | n/a |
| 40 | Air Maintenance Device Victaulic 757/757P with pressure switch |
| 41 | (Optional Series 750 Water Column Drain Kit) not shown |
| 42 | Firelock 1ee 002 |
| SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS OF APPROVALS UL/FM APPROVED NYC MEA-248-98-E Volume 3 | |

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| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title

**FIRE PROTECTION
DETAILS 3 OF 3**

| Job No. | Date |
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| NKGD0207.00 | 03/01/2024 |

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Sheet Number

FP-703

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CONSTRUCTION DOCUMENTS

Key Plan

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Sheet Title

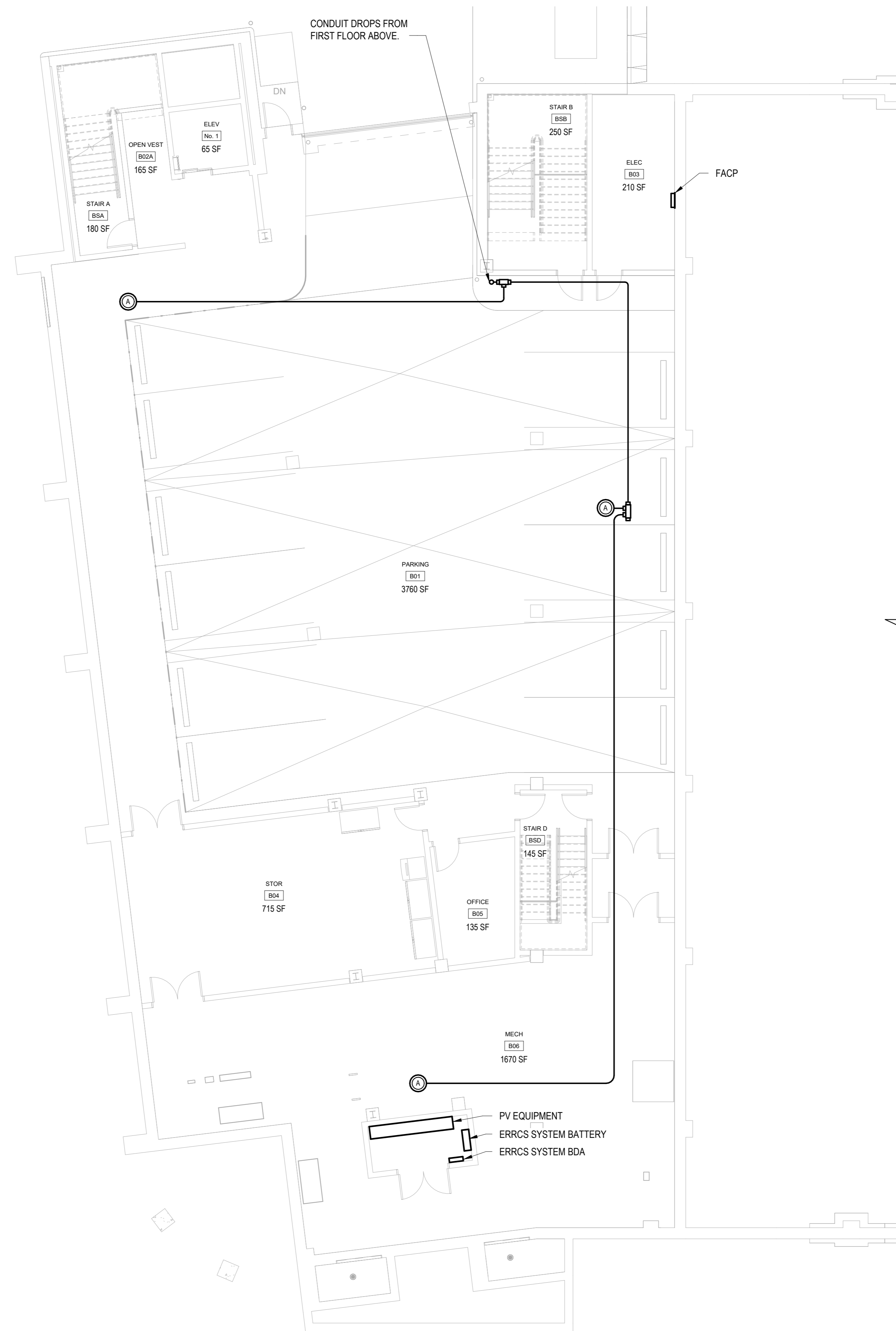
**FIRE RADIO
PARKING LEVEL
PLAN**

Job No. NKGDD207.00 Date 01/09/24

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Sheet Number

FR-301



1 FIRE RADIO PARKING FLOOR LEVEL PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

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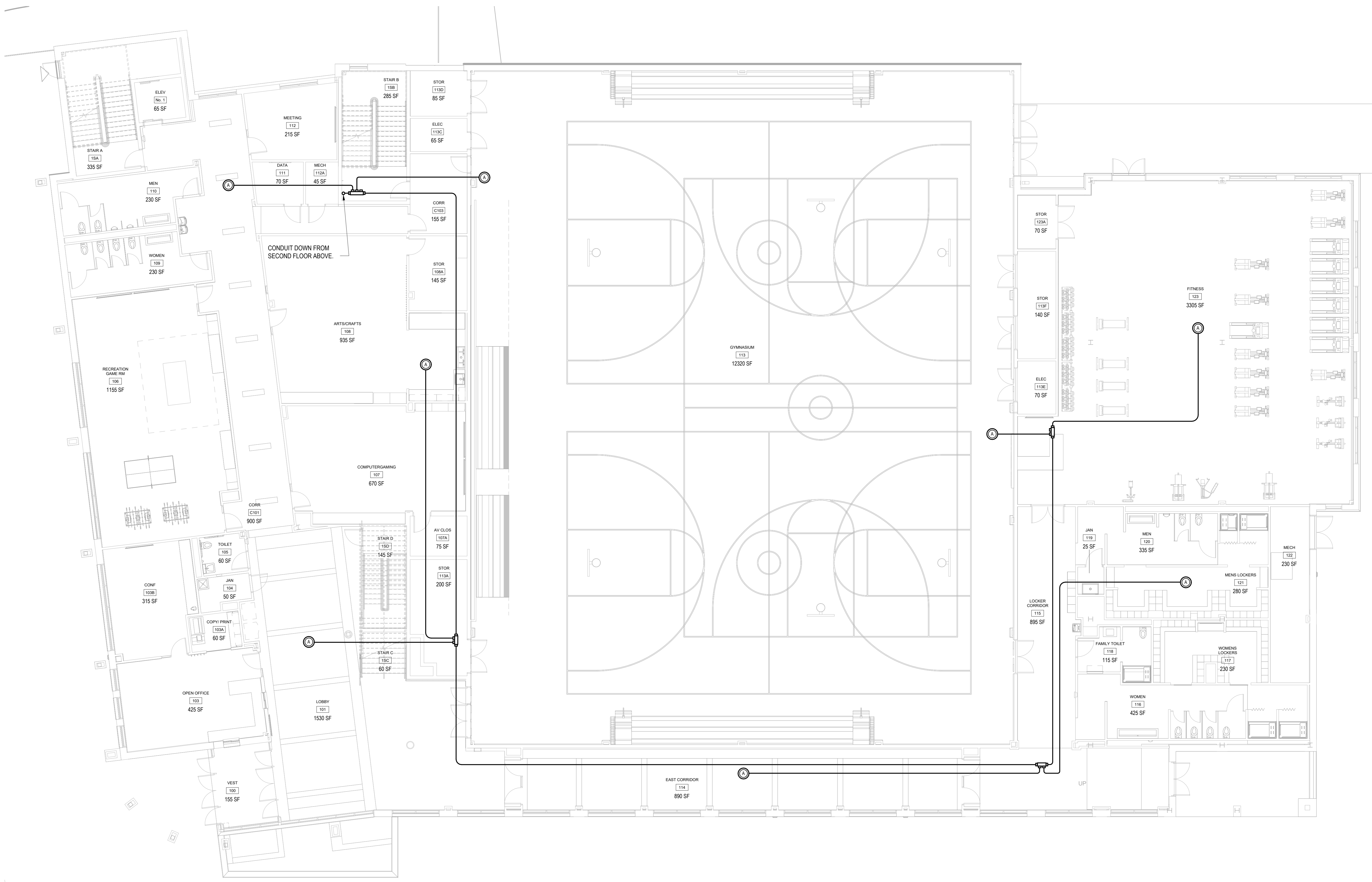
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FIRE RADIO FIRST FLOOR PLAN

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| NKGD0207.00 | 01/09/24 |
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Sheet Number
FR-302



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

NOTES:
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

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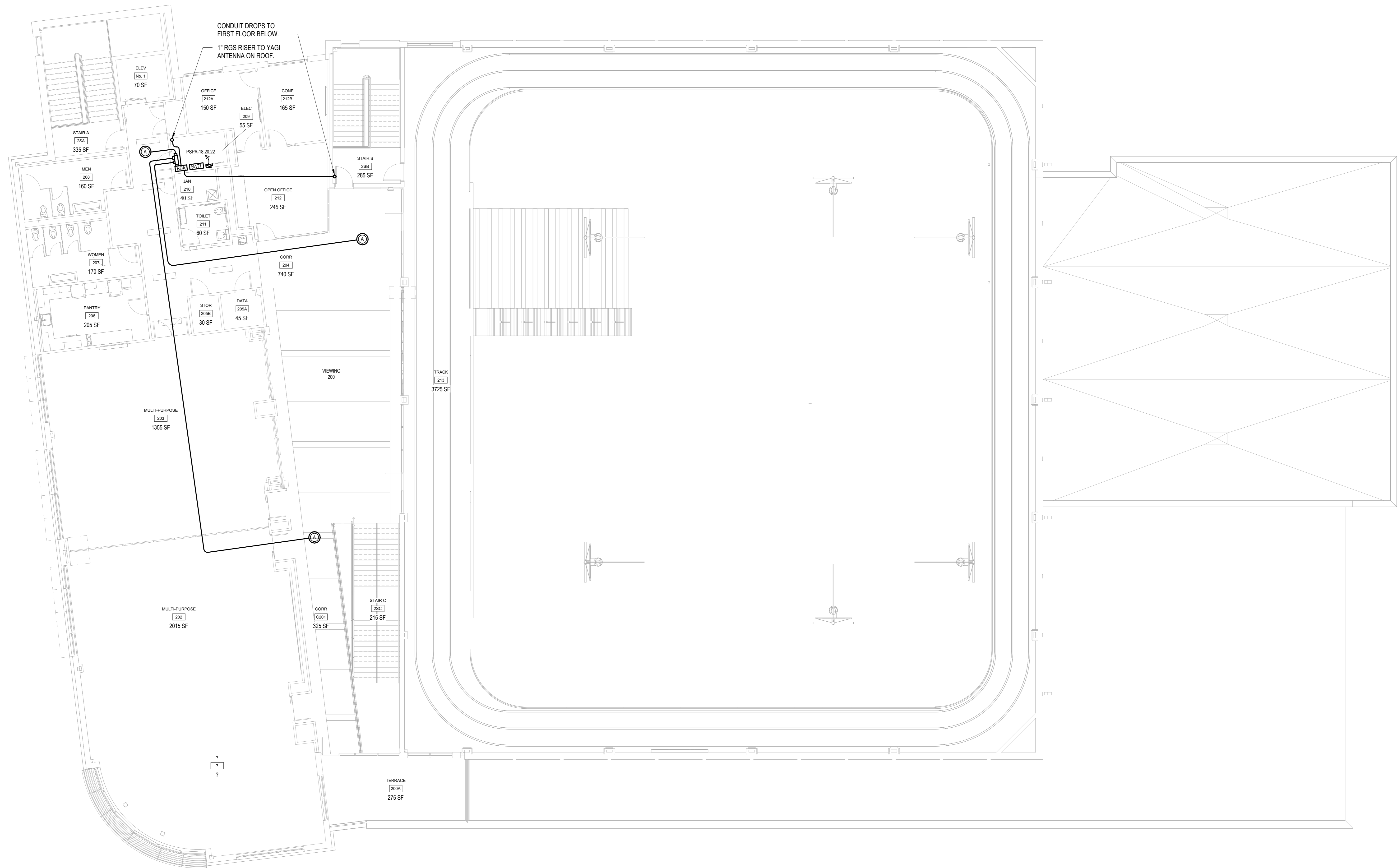
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1 FIRE RADIO SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

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FIRE RADIO SECOND FLOOR PLAN

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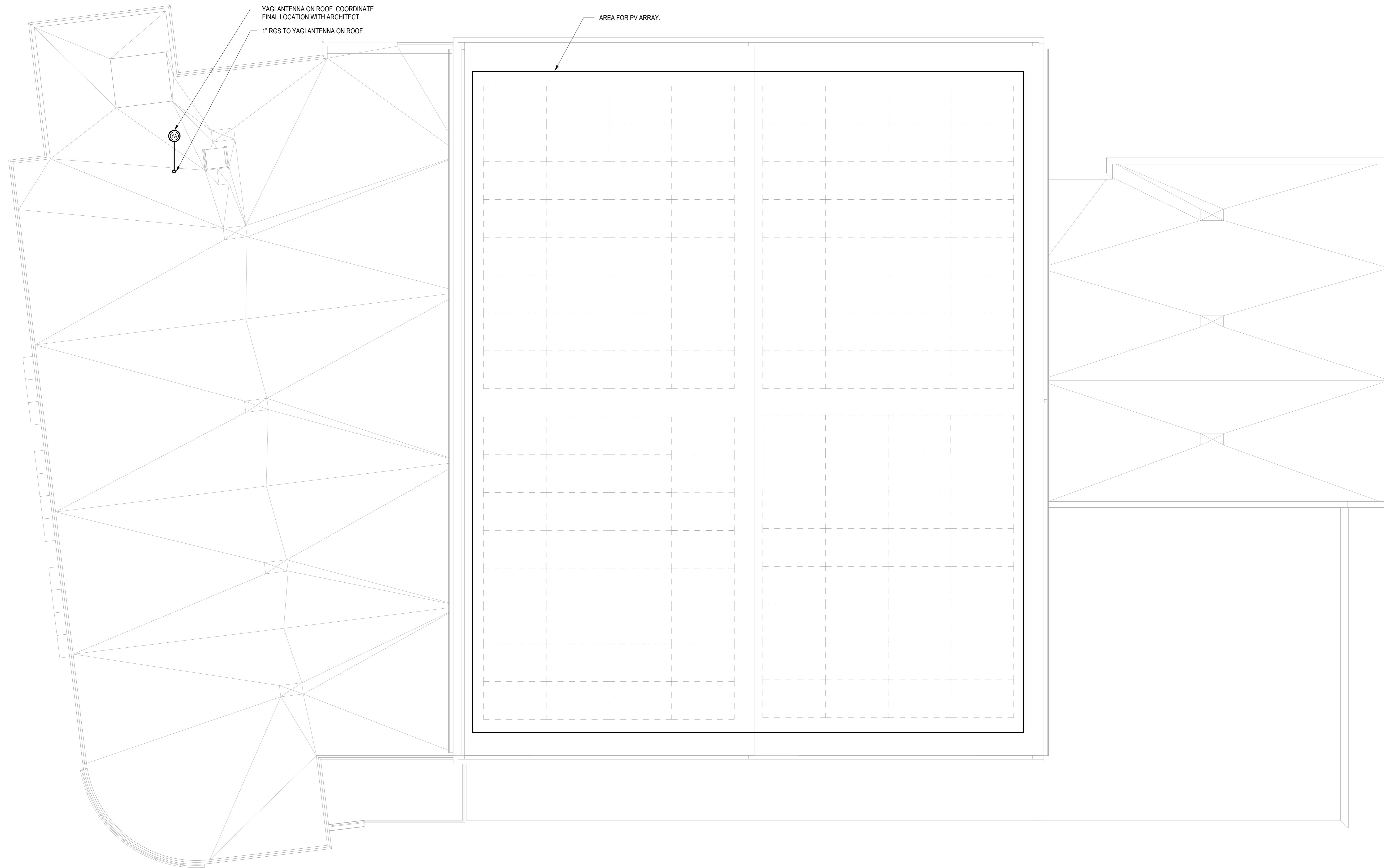
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FIRE RADIO ROOF PLAN

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| Job No. | Date |
| NKGD0207.00 | 01/09/24 |
| Scale | Drawn / Checked |
| AS NOTED | Author / Checker |

Sheet Number

FR-304



1 FIRE RADIO ROOF PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

| PLUMBING FIXTURE SCHEDULE | | | | | | | | |
|---------------------------|---------|-----------|----------------------------|----------------------|------|------------|-----------|--|
| TAG | SYMBOLS | | FIXTURES | PLUMBING CONNECTIONS | | | | DESCRIPTION |
| | PLAN | ELEVATION | | WASTE | VENT | COLD WATER | HOT WATER | |
| P-1 | | | WATER CLOSET WALL-MOUNT | 4" | 2" | 1 1/2" | - | MANUFACTURER: AMERICAN STANDARD MODEL: AFWALL ELONGATED TOILET LESS EVERCLEAN 1.6 GPF FLUSH VALVE, WALL MOUNTED TOILET, WITH ELONGATED BOWL, VITREOUS CHINA, WITH EVERCLEAN 1 1/2" INLET SPUD, 2 1/2" TRAPWAY, 10 1/2" WATER SURFACE AREA FLUSH VALVE: AMERICAN STANDARD SELECTRONIC #6065.161 002 BATTERY POWER (TOP SPUD) RECESSED WALL MOUNT TYPE PROVIDE WALL CARRIER |
| P-2 | | | LAVATORY WALL HUNG | 2" | 2" | 3/4" | 3/4" | MANUFACTURER: SLOAN SOLID SURFACE 1-STATION WALL MOUNTED SINK MODEL: ELGR-81000 SLOANSTONE SOLID SURFACE, DOUBLE HOLE FAUCET: MODEL: REFER TO ARCHITECTURAL PLANS |
| P-2A | | | LAVATORY WALL HUNG | 2" | 2" | 3/4" | 3/4" | MANUFACTURER: SLOAN SOLID SURFACE 2-STATION WALL MOUNTED SINK MODEL: ELGR-82000 SLOANSTONE SOLID SURFACE, DOUBLE HOLE FAUCET: MODEL: REFER TO ARCHITECTURAL PLANS |
| P-2B | | | LAVATORY WALL HUNG | 2" | 2" | 3/4" | 3/4" | MANUFACTURER: SLOAN MODEL: ELGR-83000 SLOANSTONE SOLID SURFACE, TRIPLE HOLE FAUCET: MODEL: REFER TO ARCHITECTURAL PLANS |
| P-3 | | | URINAL | 3" | 2" | 3/4" | - | MANUFACTURER: AMERICAN STANDARD MODEL: 6002.001 TOP SPUD HIGH EFFICIENCY URINAL 0.125 GPF, VITREOUS CHINA, 3/4" INLET SPUD, OUTLET CONNECTION 2" THREADED INSIDE FLUSH VALVE: MODEL: G065013.002, 0.125 GPF EXPOSED TOP SPUD RECESSED WALL MOUNT TYPE S ELECTRONIC URINAL FLUSH VALVE, 20 PSI (FLOWING), 80 PSI (STATIC) OPERATING PRESSURE, 10 GPM FLOW REQUIREMENT PROVIDE WALL CARRIER |
| P-4 | | | SHOWER (ADA) | 3" | 2" | 3/4" | 3/4" | MANUFACTURER: BEST BATH SYSTEMS MODEL: 4LSS24038A75"FB V3" 38.25"x40.5"x80.5" SHOWER, FIBERGLASS NOTES: INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ADA GUIDELINES. PROVIDE MOEN HANDHELD KIT KACXMOAN1001 OR APPROVED EQUIVALENT. |
| P-4A | | | SHOWER (ADA) | 3" | 2" | 3/4" | 3/4" | MANUFACTURER: BEST BATH SYSTEMS MODEL: 4LSS2633A75"FB V3" 38.5"x63"x80.5" SHOWER, FIBERGLASS NOTES: INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ADA GUIDELINES. PROVIDE MOEN HANDHELD KIT KACXMOAN1001 OR APPROVED EQUIVALENT. |
| P-5 | | | ART ROOM SINK | 2" | 2" | 3/4" | 3/4" | MANUFACTURER: ELKAY MODEL: EWM4820C 304 STAINLESS STEEL WALL HUNG MULTIPLE STATION HAND WASH SINK. INCLUDE SOLIDS INTERCEPTOR AT DRAIN. |
| P-6 | | | SINK (ADA) | 2" | 2" | 3/4" | 3/4" | MANUFACTURER: ELKAY MODEL: LRAD21955 FAUCET: MAKE: ELKAY MODEL: LK406GN05T4 304 STAINLESS STEEL DROP IN ADA SINK. FAUCET SHALL BE BRASS MATERIAL, & DOUBLE HOLE WITH A FLOW RATE OF 1.5 GPM. INCLUDE SOLIDS INTERCEPTOR AT DRAIN. |
| P-7 | | | JANITOR'S SINK | 3" | 2" | 3/4" | 3/4" | MANUFACTURER: ZURN MODEL: ZS650 FAUCET: ZURN SINK FAUCET ZB43M1-XL ENAMELED CAST IRON CORNER FLOOR SINK WITH 28x28x8 BOWL, 3" DRAIN WITH DRAIN GRID |
| CM | | | COFFEE MAKER | - | - | 3/4" | - | MANUFACTURER: CURTIS MODEL: ALPHA GS AUTOMATIC COFFEE BREWING SYSTEM SHALL BE ABLE TO BREW 12 GAL/HR ELECTRICAL: 120V/160, 1800 WATTS, 15 AMPS |
| CM-1 | | | COFFEE MAKER | - | - | 3/4" | - | MANUFACTURER: KEURIG MODEL: KEURIG K-2500 PLUMBED COMMERCIAL COFFEE MAKER ELECTRICAL: 120V/160, 1800 WATTS, 12 AMPS |
| IM | | | ICE MACHINE | - | - | 3/4" | - | MANUFACTURER: AVANTCO ICE MACHINES MODEL: KMC-H-530-A 30" AIR COOLED MODULAR HALF CUBE ICE MACHINE WITH BIN - 500LB. ICE MAKER WITH BIN. SHALL BE ABLE TO PRODUCE 500 LBS/DAY AT 90°F. 350 LB BIN STORAGE CAPACITY. ELECTRICAL: 115V/160, 9.4 AMPS |
| IM-1 | | | ICE MACHINE | - | - | 3/4" | - | MANUFACTURER: AVANTCO ICE MACHINES MODEL: UC-F-120-A-19" AIR COOLED UNDERCOUNTER FULL CUBE ICE MACHINE - 129LB. ICE MAKER WITH BIN. SHALL BE ABLE TO PRODUCE 129 LBS/DAY AT 90°F. 40 LB BIN STORAGE CAPACITY. ELECTRICAL: 115V/160, 5 AMPS |
| DW | | | DISHWASHER | 1-3/8" | - | - | 1/2" | MANUFACTURER: JACKSON WAREWASHING SYSTEMS MODEL: DISHSTAR HT-E UNDERCOUNTER DISHWASHER, HIGH TEMPERATURE SANITIZING, 27 RACKS PER HOUR CAPACITY, 100 SECOND CYCLE, BOTTOM MOUNTED CONTROLS WITH STAINLESS STEEL TOP AND SIDE PANELS, AND BUILT IN BOOSTER HEATER, 180°F FINAL RINSE WATER, ELECTRICAL: 209/60/1 |
| DF | | | DRINKING FOUNTAIN | 2" | 2" | 3/4" | - | MANUFACTURER: ELKAY MODEL: L2S18WVSK #H20 BOTTLE FILLING STATION AND 84-LEVEL ADA COOLER FILTERED REFRIGERATED LIGHT GRAY, 8.0 GPH OF 50°F DRINKING WATER BASED ON 80°F INLET WATER AND 90°F AMBIENT MODEM: V/PHz: 115/160, FLA=6 |
| DF-1 | | | DRINKING FOUNTAIN | 2" | 2" | 3/4" | - | MANUFACTURER: ELKAY MODEL: L2S8WVSK #H20 BOTTLE FILLING STATION WITH SINGLE ADA COOLER FILTERED REFRIGERATED LIGHT GRAY, 8.0 GPH OF 50°F DRINKING WATER BASED ON 80°F INLET WATER AND 90°F AMBIENT MODEM: V/PHz: 115/160, FLA=6 |
| FD | | | FLOOR DRAIN | 3" | 2" | - | - | FLOOR DRAIN: MAKE: JR SMITH MODEL: 2110 MEDIUM DUTY DRAIN, 8.5" ROUND TOP, STRAINER. PROVIDE TRAP SEAL. |
| FD-1 | | | PARKING GARAGE FLOOR DRAIN | 3" | 2" | - | - | WADE #W-1210-27 WITH CAST IRON BODY, CAST IRON DRAINAGE FLANGE, SEDIMENT BUCKET, FLASHING COLLAR, 12" ROUND HEAVY DUTY CAST IRON GRATE. PROVIDE TG-1 FOR EACH FD. |
| NFHB | | | NON FREEZE HOSE-BIB | - | - | - | - | HOSE BIB: MAKE: WOODFORD MODEL: 65 ANTI-SIPHON PROTECTED AUTOMATIC DRAINING FREEZELESS WALL HYDRANT WITH INTEGRAL VACUUM BREAKER |
| COPD | | | CLEANOUT DECK PLATE | - | - | - | - | FLOOR CLEANOUT WITH ADJUSTABLE HEAD, ANCHOR FLANGE, CUT-OF SECTIONS AND ROUND SCORIATED NICKEL-BRONZE TOP. WADE #W-6000 OR APPROVED EQUAL. PROVIDE HEAVY DUTY CAST IRON TOP FOR MECHANICAL ROOMS. COPD IN GARAGE ROOM TO BE RATED FOR VEHICULAR TRAFFIC. |
| WCO | | | WALL CLEANOUT | - | - | - | - | WALL CLEANOUT WITH CLEANOUT TEE AND CHROME PLATED BRONZE SQUARE ACCESS COVER AND FRAME. WADE #W-8480 OR APPROVED EQUAL. |
| RD-1 | | | ROOF DRAIN | 4" | 2" | 2 | - | JOSAM 21600 4" SERIES COATED CAST IRON ROOF DRAIN, LARGE POLYPROPYLENE LOCKING DOME, WEJOC NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP, LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET. |
| OD-1 | | | ROOF DRAIN | 4" | 2" | 2 | - | JOSAM 21600 4" 16 SERIES COATED CAST IRON ROOF DRAIN, LARGE POLYPROPYLENE LOCKING DOME, WEJOC NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP, INTERNAL WATER GUARD FOR OVERFLOW, LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET. |

NOTES:
1.) REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE QUANTITY, LOCATIONS, & MOUNTING HEIGHTS.

SYMBOLS AND ABBREVIATIONS

| SYMBOL | ABBREVIATION | DESCRIPTION |
|--------|--------------|-----------------------------|
| - | AFF | ABOVE FINISHED FLOOR |
| - | AHC | ABOVE HUNG CEILING |
| - | BFP | BACK FLOW PREVENTOR |
| | - | BALL VALVE |
| | - | BASKET STRAINER |
| | - | BUTTERFLY VALVE |
| | - | CHECK VALVE |
| | - | CIRCUIT SETTER |
| | CODP | CLEAN OUT DECK PLATE |
| | CW | COLD WATER |
| | - | CONCENTRIC REDUCER |
| | DCV | DOUBLE CHECK VALVE - BFP |
| | - | ECCENTRIC REDUCER |
| | - | ELBOW DOWN |
| | - | ELBOW UP |
| | DEM. | EXISTING TO BE REMOVED |
| | EX. | EXISTING TO REMAIN |
| | - | FLEXIBLE CONNECTION |
| | FCO | FLOOR CLEAN OUT |
| | FS | FLOOR SINK |
| | - | FLOW ARROW |
| | FAI | FRESH AIR INTAKE |
| | - | GATE VALVE |
| | - | GLOBE VALVE |
| | HW | HOT WATER |
| | HW HTR | HOT WATER HEATER |
| | HWC | HOT WATER RECIRCULATION |
| | LDR | LEADER |
| | - | MANUAL AIR VENT |
| | NEW | NEW WORK |
| | - | OS&G GATE VALVE |
| | - | PLUG VALVE |
| | - | PIPE CAP |
| | - | PRESSURE GAGE |
| | - | PRESSURE REDUCING VALVE |
| | - | PUMP |
| | PD | PUMP DISCHARGE |
| | RPZ | REDUCED PRESSURE ZONE - BFP |
| | REL. | REMOVE AND RELOCATE |
| | S | SANITARY |
| | - | SOLENOID VALVE |
| | - | STRAINER |
| | SD | STORM DRAINAGE |
| | - | TEE DOWN |
| | - | TEE UP |
| | - | THERMOMETER |
| | TYP. | TYPICAL |
| | - | T&P RELIEF VALVE |
| | - | UNION |
| | V | VENT |
| | VTR | VENT THROUGH ROOF |
| | WCO | WALL CLEAN OUT |
| | W | WASTE LINE |

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

PLUMBING MATERIALS

- ALL PIPING BURIED BELOW THE GARAGE SLAB SHALL BE HIGH PERFORMANCE HUB & SPIGOT SERVICE WEIGHT CAST IRON CHARLOTTE PIPE "EDGE HP IRON" ATSM A74, CISPI TMNSF, EN 877 COMPRESSION GASKETS ASTM C564 OR LEAD & OAKUM. REFER TO SPECIFICATIONS 221316

GENERAL NOTES

- THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.
- THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING AND BUILDING CODES, IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- CONNECTIONS TO EXISTING UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.
- PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.
- ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.

GENERAL NOTES

- PROVIDE ALL PLUMBING FIXTURES, PIPING, VALVES AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION. ROUGHING DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.
- PITCH ALL WASTE, SANITARY, AND STORM DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT FOR PIPING ≥ 3" AND 1/4" PER FOOT FOR PIPING ≤ 2 1/2".
- NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
- PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
- PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, AND HOT WATER PIPES.
- ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- PROVIDE TRAP SEAL PRIMERS FOR FLOOR DRAINS AS REQUIRED. INSTALL THE PRIMER VALVE IN THE COLD WATER SERVICE, WITH THE TRAP CONNECTION PIPED TO THE FLOOR DRAIN TRAP. LOCATE THE VALVE IN AN ACCESSIBLE LOCATION.
- THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, PAINTING, ACCESS PANELS, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF PLUMBING PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE PLUMBING WORK.
- SEE THE ARCHITECTURAL DRAWINGS FOR EXACT PHASING AND TIME SCHEDULE FOR CONSTRUCTION.
- ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.

EQUIPMENT NOTES

- NATURAL GAS-FIRED DOMESTIC HOT WATER HEATER, (HWH-1): SHALL BE BASED ON AO SMITH MODEL BTH-120 MXI, RATED FOR 138 GPH @ 100° RISE, GAS FIRED, 120,000 BTUH INPUT CAPACITY. THERMAL EFFICIENCY = 95.8%
- NATURAL GAS-FIRED DOMESTIC HOT WATER HEATER, (HWH-2): SHALL BE BASED ON AO SMITH MODEL BTH-150 MXI, RATED FOR 178 GPH @ 100° RISE, GAS FIRED, 150,000 BTUH INPUT CAPACITY. THERMAL EFFICIENCY = 98.8%
- NATURAL GAS-FIRED DOMESTIC HOT WATER HEATER, (HWH-3): SHALL BE BASED ON AO SMITH MODEL BTH-120 MXI, RATED FOR 138 GPH @ 100° RISE, GAS FIRED, 120,000 BTUH INPUT CAPACITY. THERMAL EFFICIENCY = 95.8%
- ELEVATOR SUMP PUMP, (ESP-1), TO BE BASED ON STANCOR MODEL SE50 PUMP, 0.5 HP, 115V-1 PHASE-60 HERTZ, 8 FLA, 55 GPM @ 20 FEET HEAD AND 3450 RPM, 40A LOCKED ROTOR AMPS, 33 FEET MAX. SUBMERGENCE. PROVIDE STANCOR CHECK VALVE WITH EACH PUMP. PROVIDE OIL MINDER CONTROL SYSTEM FOR EACH PUMP WITH BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. PROVIDE JUNCTION BOX WITH MULTI PIN CONNECTOR AND CORD LENGTHS AS REQUIRED. PANEL TO HAVE INDICATOR LIGHTS FOR OIL SPILL, HIGH LIQUID LEVEL, OVERLOAD AND PUMP RUN. CONTROL PANEL ENCLOSURE TO BE NEMA4X WATERTIGHT CORROSION RESISTANT FIBERGLASS.
- SUMP PUMP, (SP-1) AND (SP-2), TO BE BASED ON STANCOR MODEL SV500 PUMP, 5 HP, 208V-3 PHASE-60 HERTZ, 16.6 FLA, 210 GPM @ 35 FEET HEAD AND 3450 RPM, 83A LOCKED ROTOR AMPS, 33 FEET MAX. SUBMERGENCE. PROVIDE STANCOR CHECK VALVE WITH EACH PUMP. PROVIDE OIL MINDER CONTROL SYSTEM FOR EACH PUMP WITH BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. PROVIDE JUNCTION BOX WITH MULTI PIN CONNECTOR AND CORD LENGTHS AS REQUIRED. PANEL TO HAVE INDICATOR LIGHTS FOR OIL SPILL, HIGH LIQUID LEVEL, OVERLOAD AND PUMP RUN. CONTROL PANEL ENCLOSURE TO BE NEMA4X WATERTIGHT CORROSION RESISTANT FIBERGLASS.
- LD-1 SPOT TYPE LEAK DETECTORS SHALL BE LIEBERT MODEL LT-410. PROVIDE 100 WATT LOW-VOLTAGE TRANSFORMER. PROVIDE CONNECTION TO BMS FOR LD ALARM.
- DOMESTIC HOT WATER HEATER RECIRCULATION PUMP, (HWCP-1): SHALL BE BASED ON BELL AND GOSSETT MODEL PL-55 RATED FOR 1-GPM AT 40' TDH, 2/5 HP, 120V/160/60HZ. MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 3" DOMESTIC WATER BACKFLOW PREVENTION ASSEMBLY: SHALL BE WATTS MODEL LF009 LEAD FREE REDUCED PRESSURE ZONE BACKFLOW PREVENTER. ASSEMBLY SHALL BE SUITABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 110°F. THE ASSEMBLY SHALL INCLUDE TWO RESILIENT OS&S SEATED SHUTOFF VALVES AND FOUR BALL TYPE TEST COCKS. THE 3" DOMESTIC WATER BACKFLOW PREVENTER SHALL BE PROVIDED WITH WATTS AIR GAP / SPLASH GUARD.
- 6" FIRE PROTECTION BACKFLOW PREVENTION ASSEMBLY: SHALL BE WATTS SERIES 709DCD DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTER. ASSEMBLY SHALL BE SUITABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 110°F. THE ASSEMBLY SHALL INCLUDE TWO RESILIENT OS&S SEATED SHUTOFF VALVES AND TWO BALL TYPE TEST COCKS.
- WATER METER: SHALL BE BASED ON ELSTER EVOQA METER, 3" SIZE. FINAL WATER METER AND SIZE, MODEL, AND DIMENSIONS SHALL BE DETERMINED AND APPROVED BY THE WATER UTILITY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND INSTALLATION, AND ALL RELATED WATER DEPARTMENT FEES.
- ALL DOMESTIC, SANITARY, AND STORM PIPING ROUTED EXPOSED WITHIN GARAGE SHALL BE HEAT TRACED COMPLETE, INCLUDING A MINIMUM OF 2" INTO THE TEMPERED SPACES. PIPING SHALL BE INSULATED COMPLETE AND WRAPPED WITH PVC JACKETING.
- COORDINATE WITH ARCHITECTURAL DRAWINGS FOR FINAL LOCATION, TYPE, AND QUANTITY OF FIXTURES AND ROOF DRAINS THROUGHOUT THE BUILDING.
- COORDINATE WITH SITE ENGINEER DRAWINGS FOR FINAL LOCATION, TYPE, AND QUANTITY OF ROADWAY DRAINS.
- ALL PIPING INCLUDING HANGERS/SUPPORTS WITHIN THE GARAGE SHALL BE ROUTED AS HIGH AS POSSIBLE TO MAINTAIN VEHICLE CLEARANCE THROUGHOUT. REFER TO ARCHITECTURAL DRAWINGS FOR MINIMUM ELEVATIONS.
- THE PLUMBING CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING EQUIPMENT, DUCTWORK, PLUMBING AND SPRINKLER PIPING, SMOKE DETECTORS, LIGHTS, CONDUITS, SMOKE DETECTORS, DIFFUSERS, GRILLES, AND ALL RCP ELEMENTS, ETC.
- PROVIDE TRAP AND VALVE GUARDS AT ALL LAVATORIES WITH EXPOSED PIPING SIMILAR TO TRUEBRO P-TRAP AND TWO (2) VALVE COVERS WITH VINYL COVER.
- GAS BOOSTER PUMP (GMP-1): SHALL BE ACCARDI COMPAC HB4615-1. SYSTEM SHALL BE A PACKAGE HERMETICALLY SEALED SYSTEM THAT INCLUDES AUTO FLOW CONTROL, INTEGRAL VFD, NEMA 4 PANEL, NEMA 4 LOW PRESSURE SWITCH, INLET AND OUTLET ISOLATION VALVES, FLEXIBLE CONNECTIONS, INLET AND OUTLET PRESSURE GAUGES, AND CHECK VALVE. SYSTEM SHALL BE CAPABLE OF DELIVERING A VARIABLE VOLUME OF NATURAL GAS OF 1,370 CFH WHILE PROVIDING A CONSTANT ELEVATED DIFFERENTIAL GAS PRESSURE OF 11" WC.

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Sheet Title

PLUMBING SYMBOLS, ABBREVIATIONS, & NOTES

Job No. NKG00207.00 Date 03/01/2024

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Sheet Number

P-001

Key Plan

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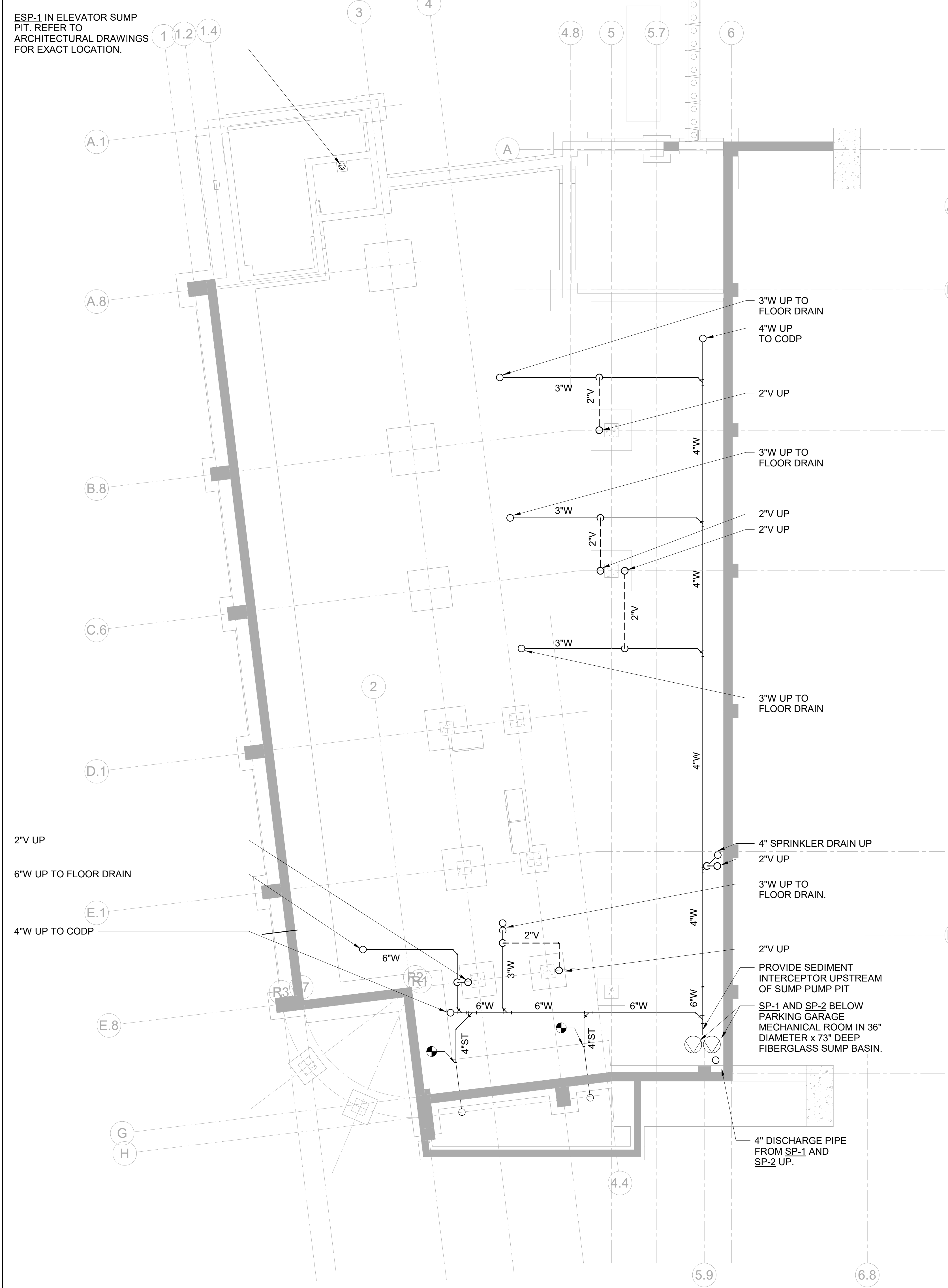
Sheet Title

PLUMBING PARKING FLOOR & FIRST FLOOR SLAB PLAN

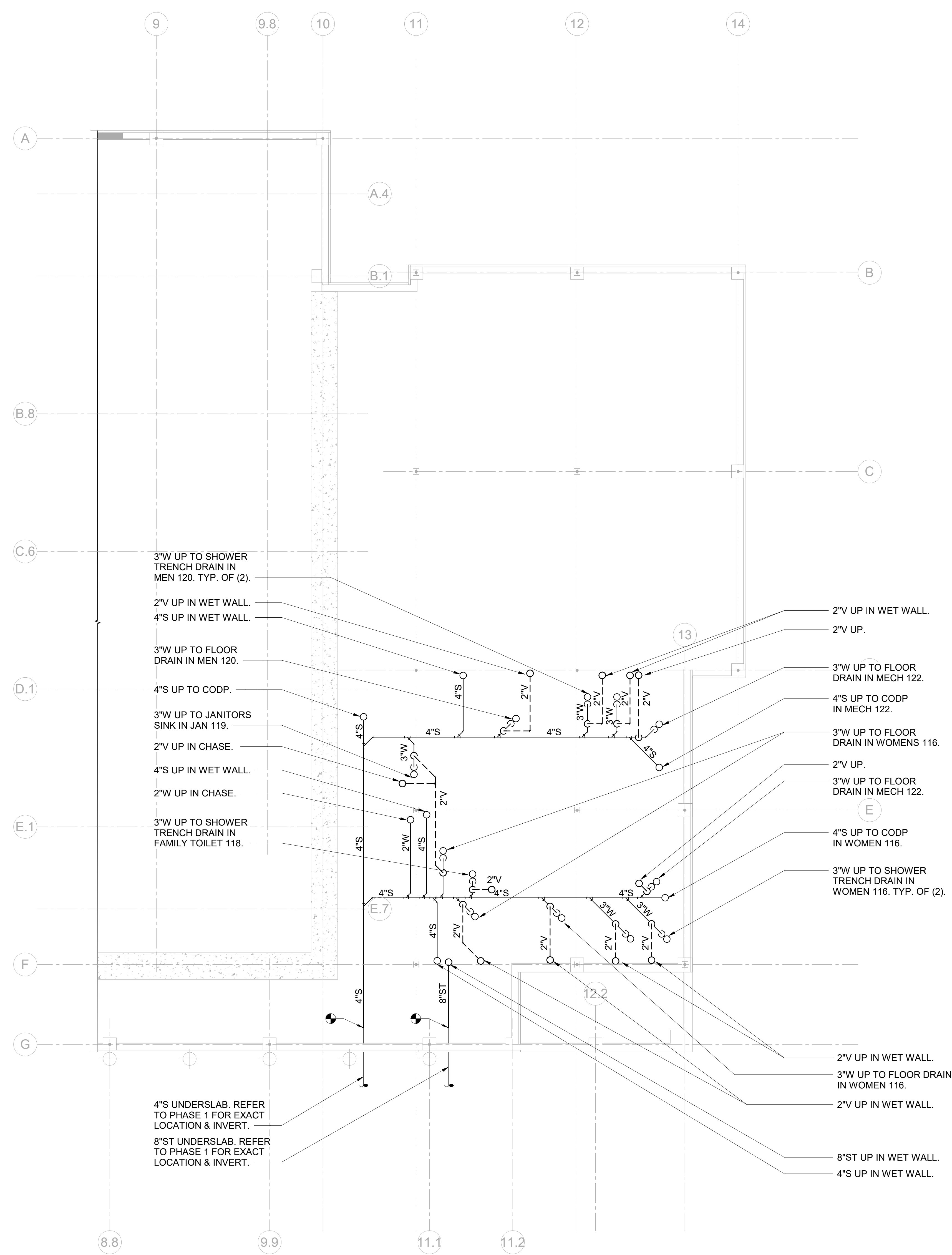
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Sheet Number

P-200A



1 PLUMBING PARKING FLOOR SLAB PLAN
 SCALE: 1/8" = 1'-0"
 NORTH



2 PLUMBING FIRST FLOOR SLAB PLAN
 SCALE: 1/8" = 1'-0"
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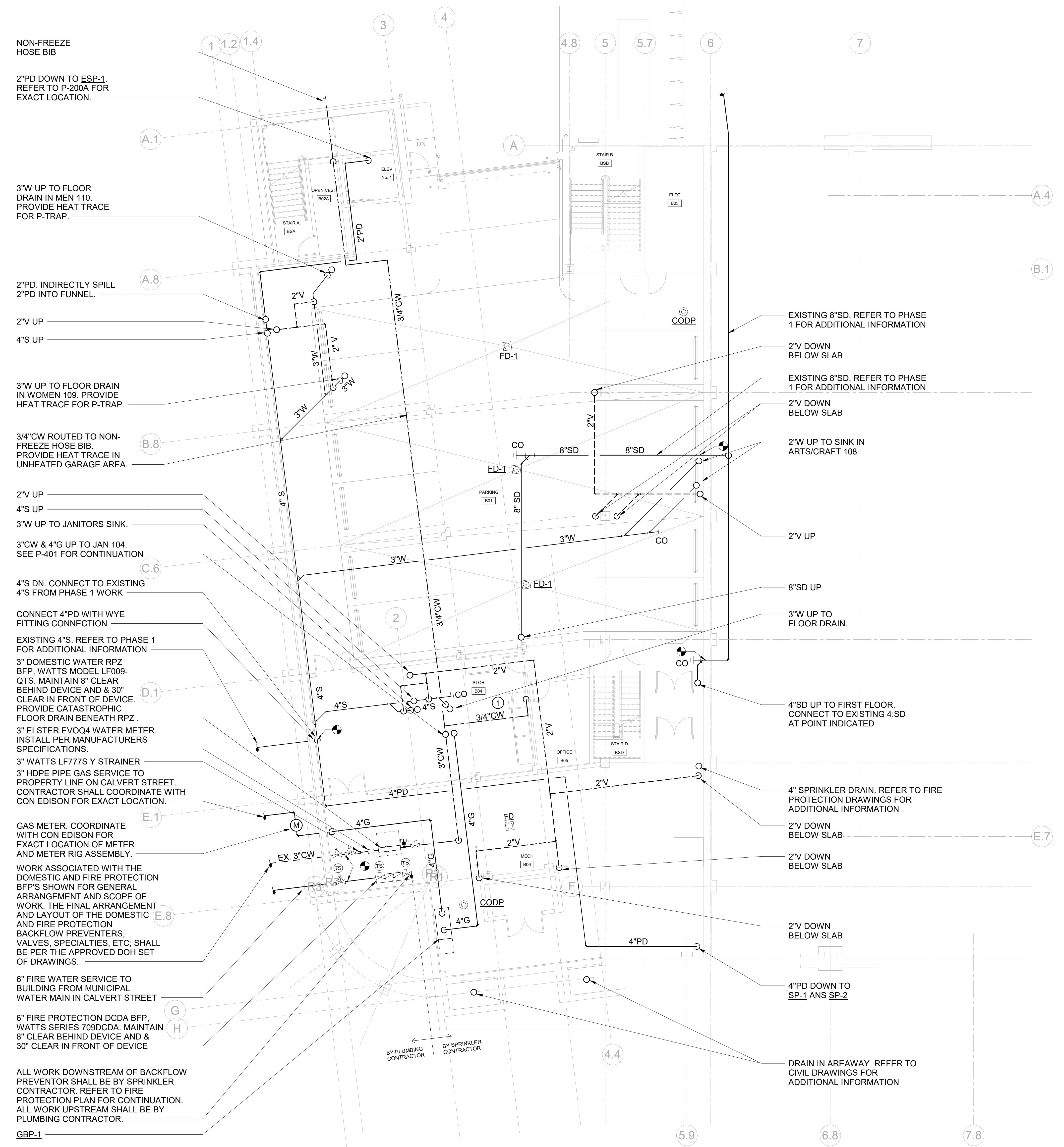
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PLUMBING PARKING FLOOR PLAN

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| NKGD0207.00 | 02/16/2024 |

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Sheet Number
P-201



NON-FREEZE HOSE BIB
2" PD DOWN TO ESP-1. REFER TO P-200A FOR EXACT LOCATION.

3" W UP TO FLOOR DRAIN IN MEN 110. PROVIDE HEAT TRACE FOR P-TRAP.

2" PD INDIRECTLY SPILL
2" PD INTO FUNNEL.

3" W UP TO FLOOR DRAIN IN WOMEN 109. PROVIDE HEAT TRACE FOR P-TRAP.

3/4" CW ROUTED TO NON-FREEZE HOSE BIB. PROVIDE HEAT TRACE IN UNHEATED GARAGE AREA.

2" V UP
4" S UP
3" W UP TO JANITORS SINK.
3" CW & 4" G UP TO JAN 104. SEE P-401 FOR CONTINUATION.

4" S DN. CONNECT TO EXISTING 4" S FROM PHASE 1 WORK

CONNECT 4" PD WITH WYE FITTING CONNECTION
EXISTING 4" S. REFER TO PHASE 1 FOR ADDITIONAL INFORMATION

3" DOMESTIC WATER RPZ BFP. WATTS MODEL LF009-GTS. MAINTAIN 8" CLEAR BEHIND DEVICE AND 30" CLEAR IN FRONT OF DEVICE. PROVIDE CATASTROPHIC FLOOR DRAIN BENEATH RPZ.

3" ELSTER EVOQ4 WATER METER. INSTALL PER MANUFACTURERS SPECIFICATIONS.

3" WATTS LF777S Y STRAINER
3" HDPE PIPE GAS SERVICE TO PROPERTY LINE ON CALVERT STREET. CONTRACTOR SHALL COORDINATE WITH CON EDISON FOR EXACT LOCATION.

GAS METER. COORDINATE WITH CON EDISON FOR EXACT LOCATION OF METER AND METER RIG ASSEMBLY.

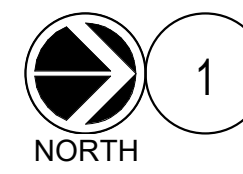
WORK ASSOCIATED WITH THE DOMESTIC AND FIRE PROTECTION BFP'S SHOWN FOR GENERAL ARRANGEMENT AND SCOPE OF WORK. THE FINAL ARRANGEMENT AND LAYOUT OF THE DOMESTIC AND FIRE PROTECTION BACKFLOW PREVENTERS, VALVES, SPECIALTIES, ETC. SHALL BE PER THE APPROVED DOH SET OF DRAWINGS.

6" FIRE WATER SERVICE TO BUILDING FROM MUNICIPAL WATER MAIN IN CALVERT STREET

6" FIRE PROTECTION DODA BFP. WATTS SERIES 709D-CDA. MAINTAIN 8" CLEAR BEHIND DEVICE AND 30" CLEAR IN FRONT OF DEVICE

ALL WORK DOWNSTREAM OF BACKFLOW PREVENTOR SHALL BE BY SPRINKLER CONTRACTOR. REFER TO FIRE PROTECTION PLAN FOR CONTINUATION. ALL WORK UPSTREAM SHALL BE BY PLUMBING CONTRACTOR.

GBP-1



1 PLUMBING PARKING FLOOR PLAN
SCALE: 1/8" = 1'-0"

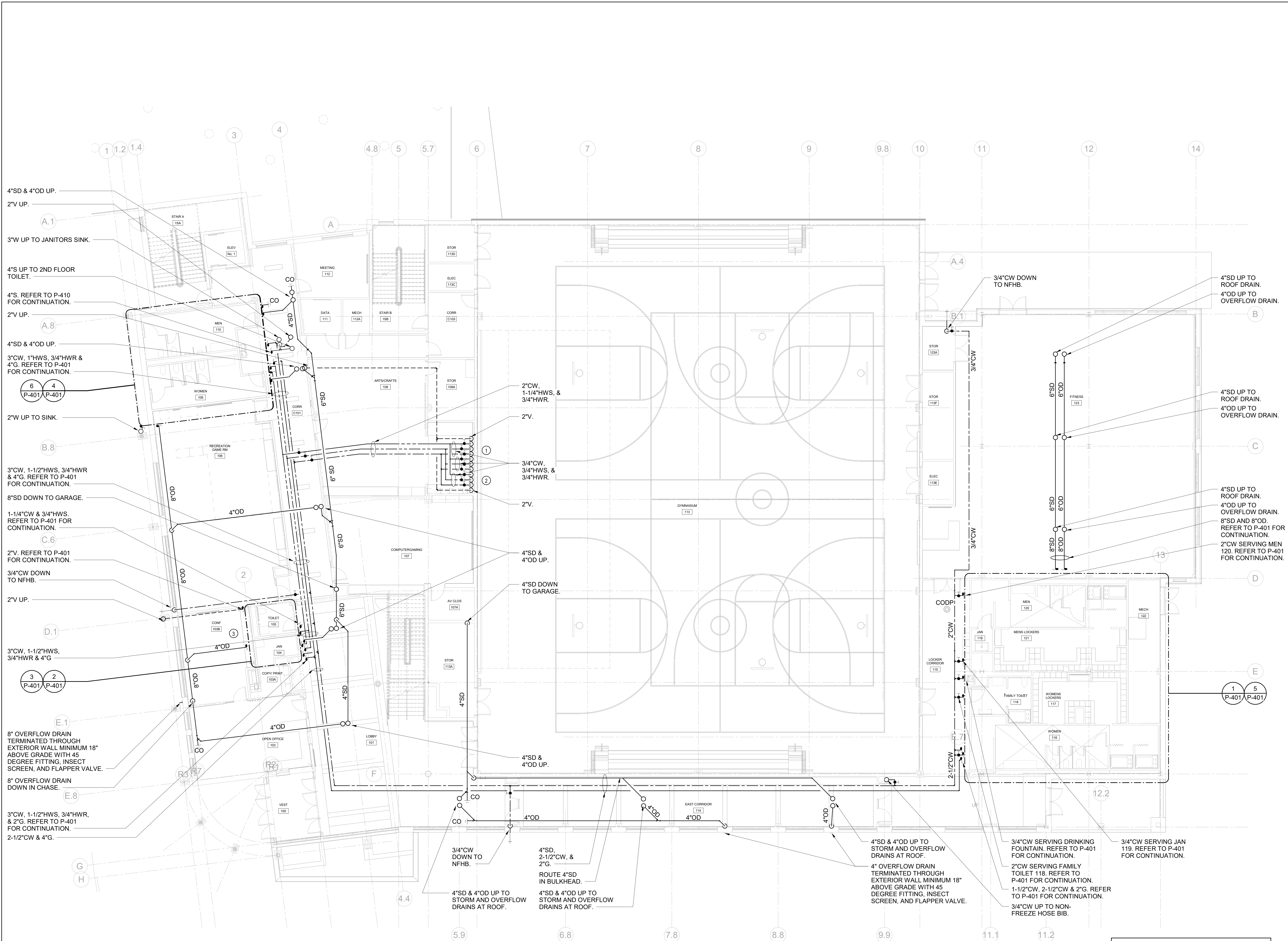
NEW WORK KEY NOTES

- 1 ICE MACHINE IM. PROVIDE 3/4" CW. PROVIDE SHUT-OFF VALVE.

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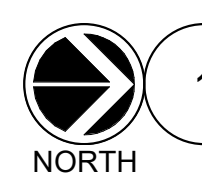
PLUMBING FIRST FLOOR PLAN

| | |
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- NEW WORK KEY NOTES**
- 1 SINK P-5, PROVIDE (2) 3/4" CW, (2) 3/4" HW, (1) 2" W, AND (1) 2" V. PROVIDE SHUT-OFF VALVES. TYPICAL.
 - 2 SINK P-6, PROVIDE 3/4" CW, 3/4" HW, 2" W, AND 2" V. PROVIDE SHUT-OFF VALVES. TYPICAL.
 - 3 COFFEE MAKER CM-1, PROVIDE 3/4" CW, PROVIDE SHUT-OFF VALVE AND BACKFLOW PREVENTER.

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



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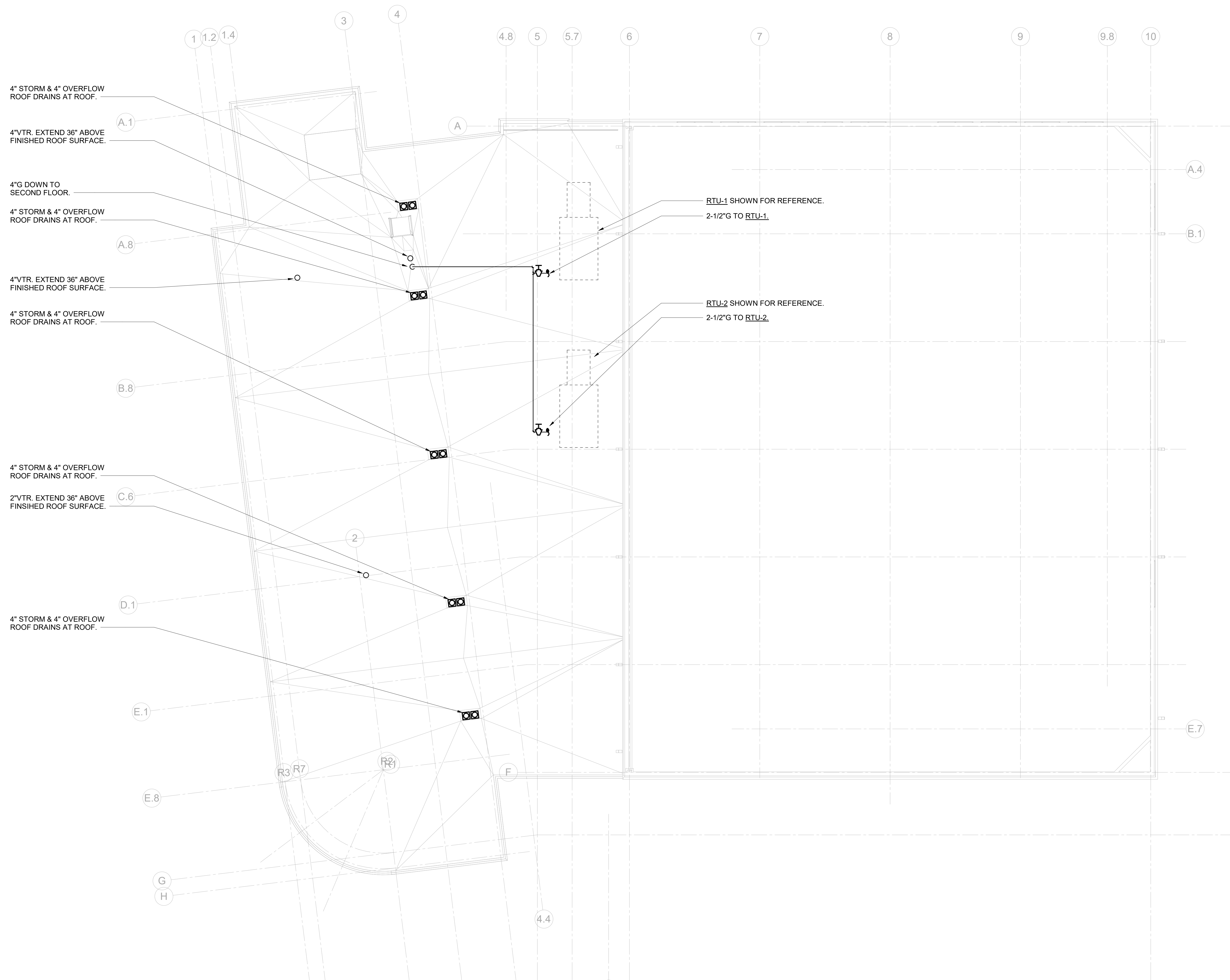
Sheet Title

**PLUMBING ROOF
PLAN**

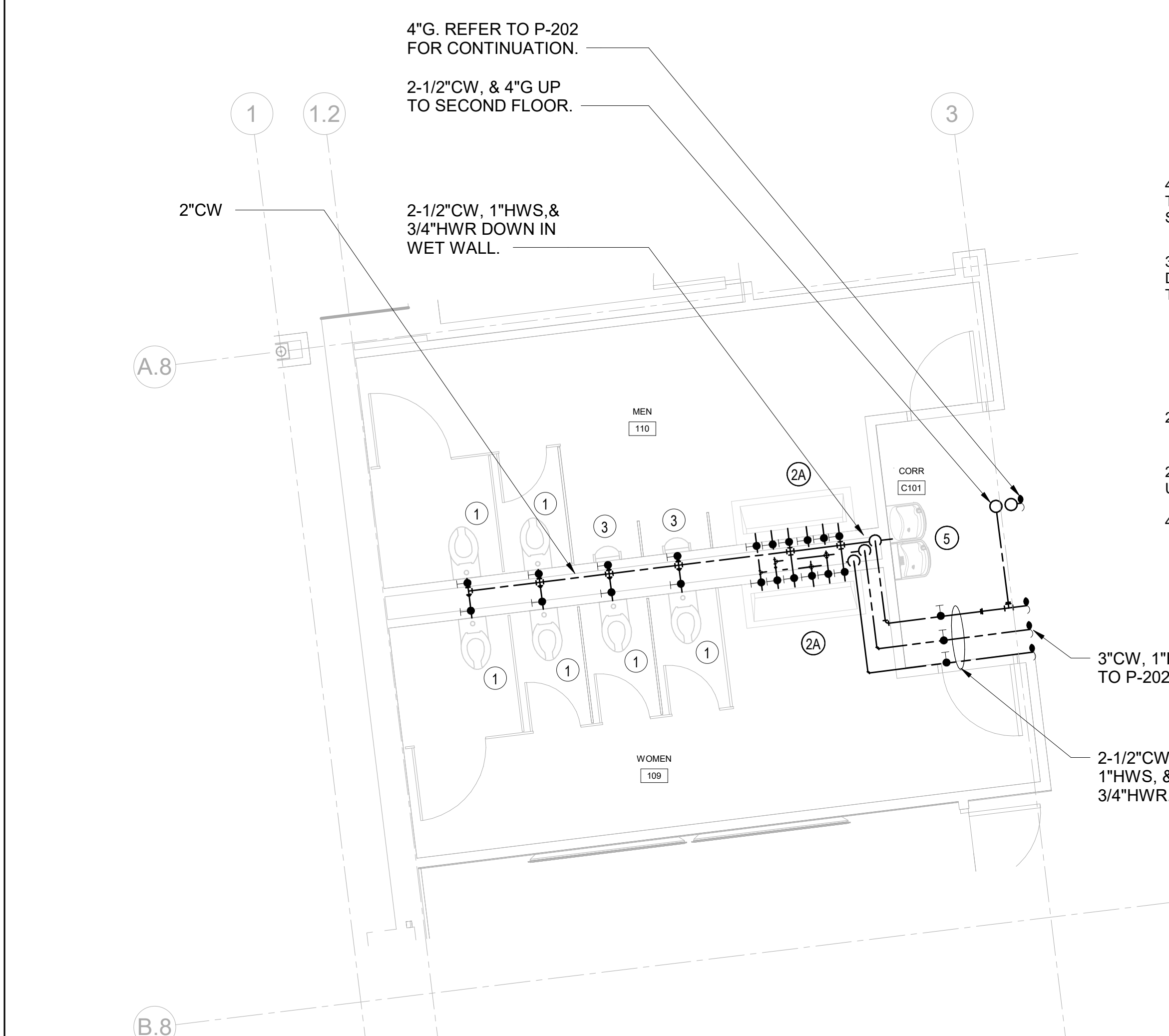
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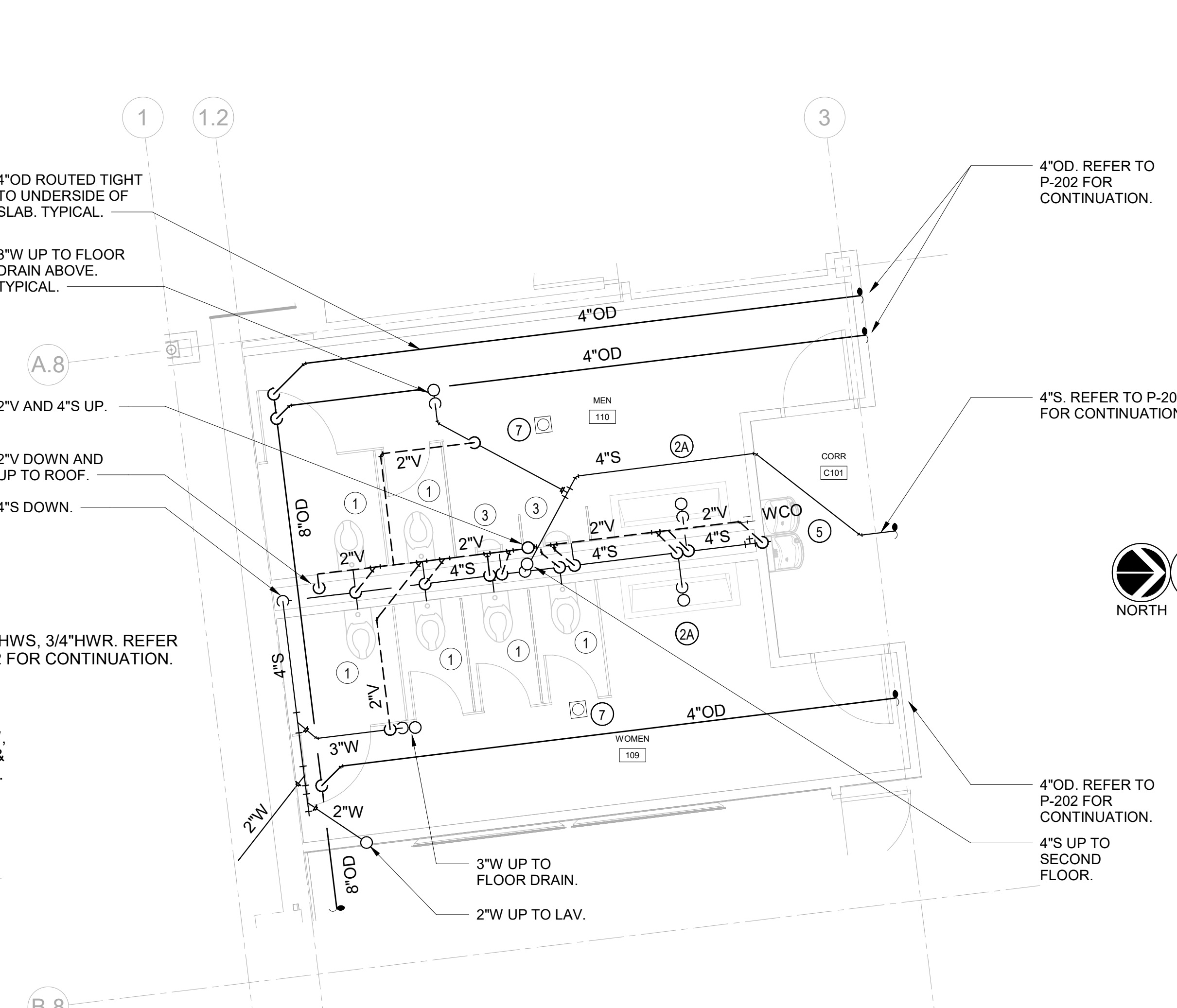
P-204



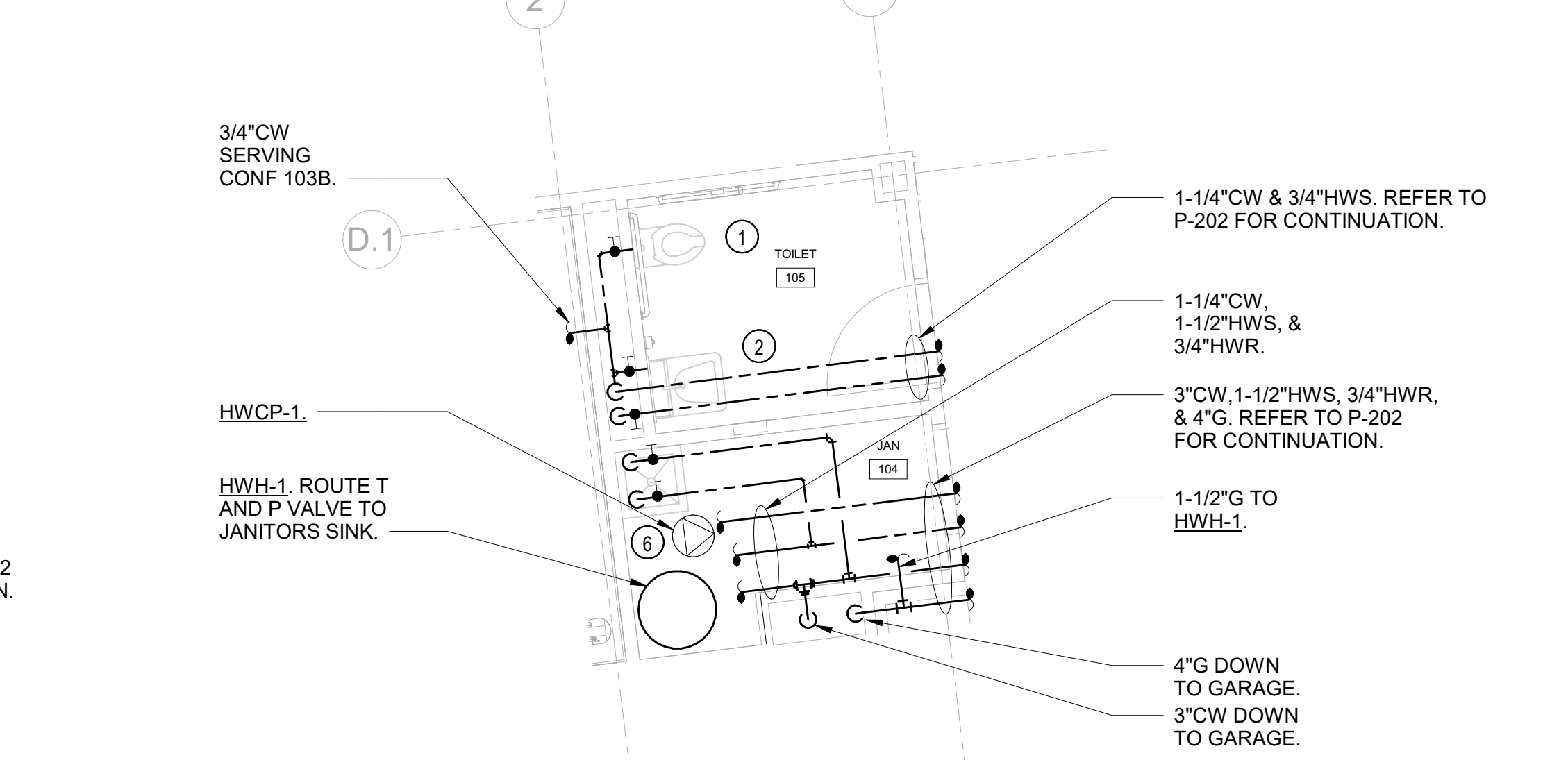
1 PLUMBING ROOF PLAN
SCALE: 1/8" = 1'-0"
NORTH



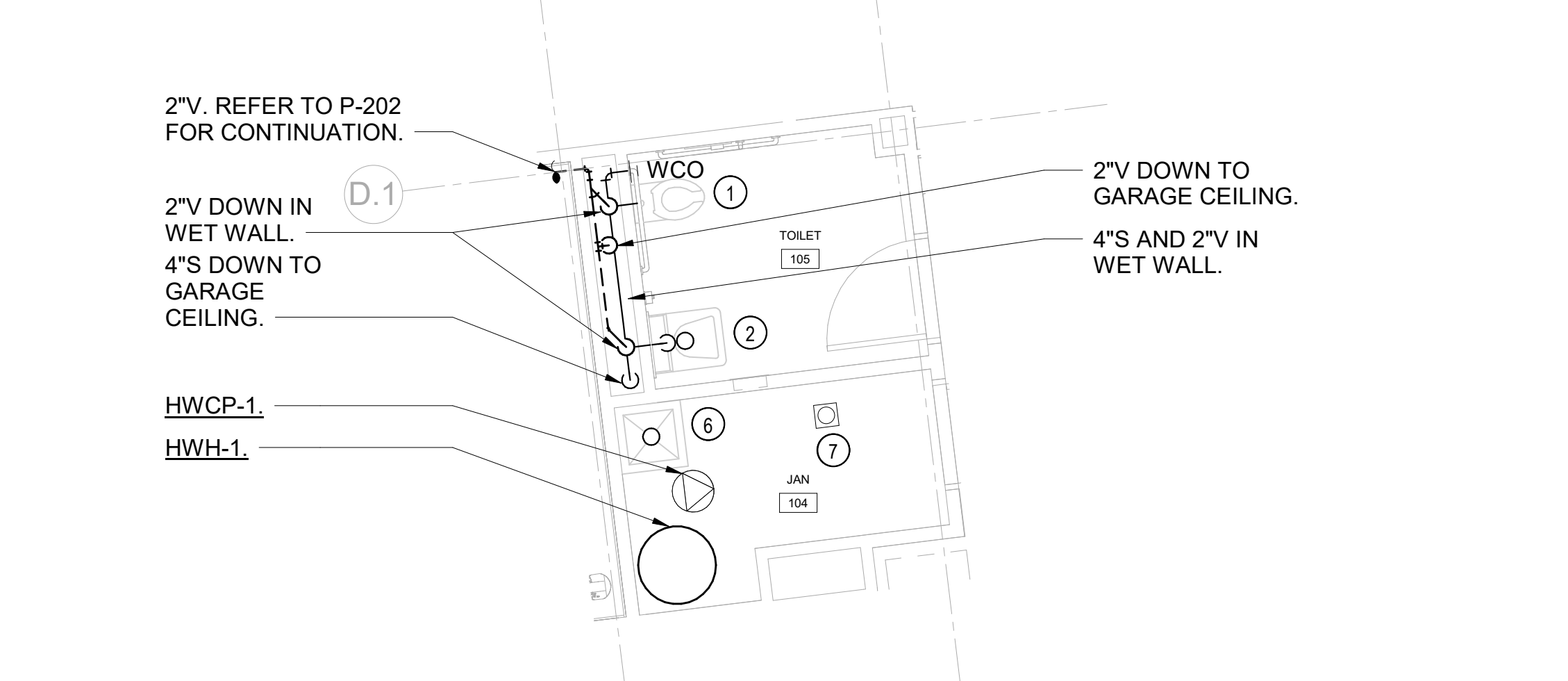
6 PLUMBING MEN 110 & WOMEN 109 - DOMESTIC WATER PLAN
 SCALE: 1/4" = 1'-0"
 NORTH



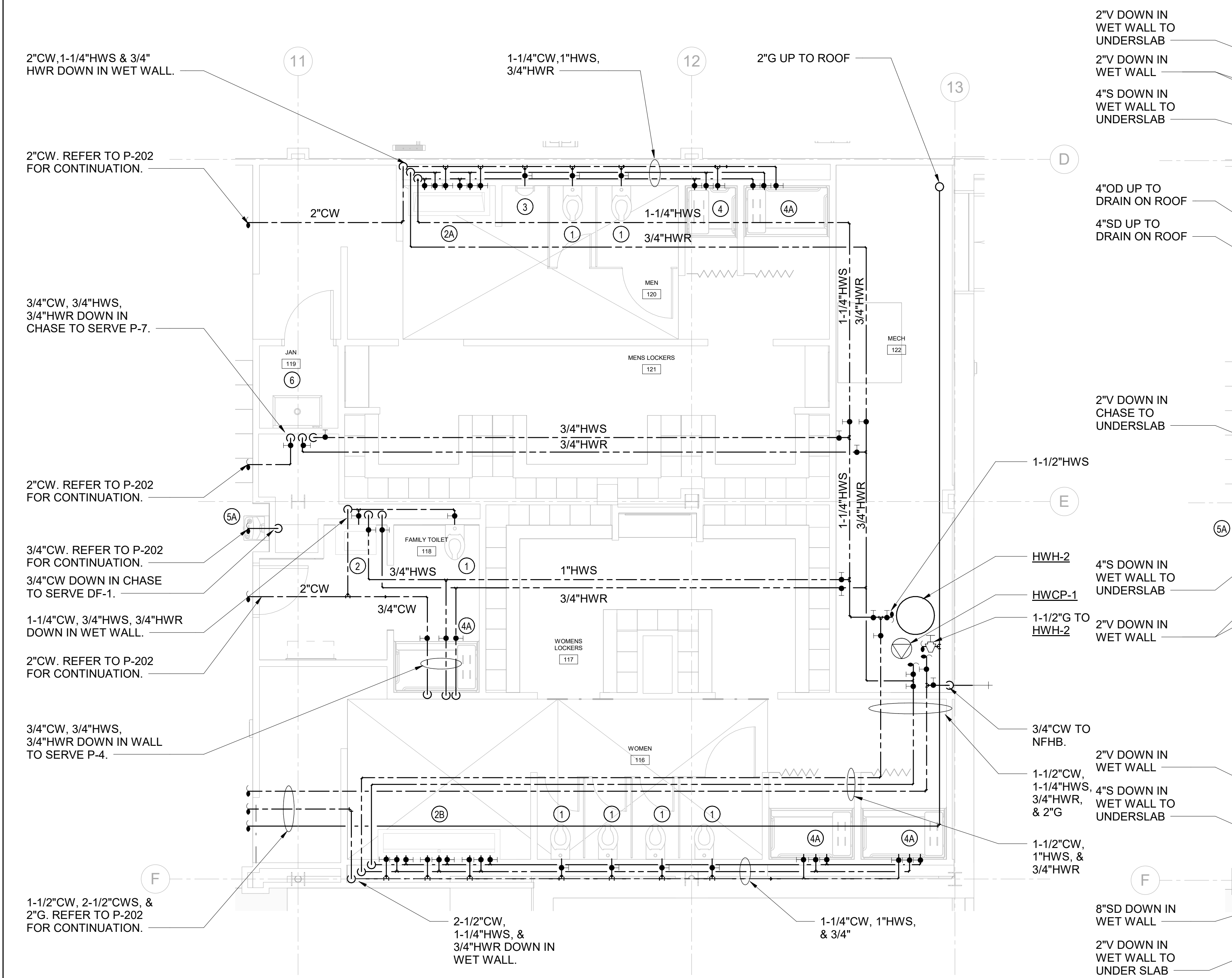
4 PLUMBING MEN 110 & WOMEN 109 - SANITARY PLAN
 SCALE: 1/4" = 1'-0"
 NORTH



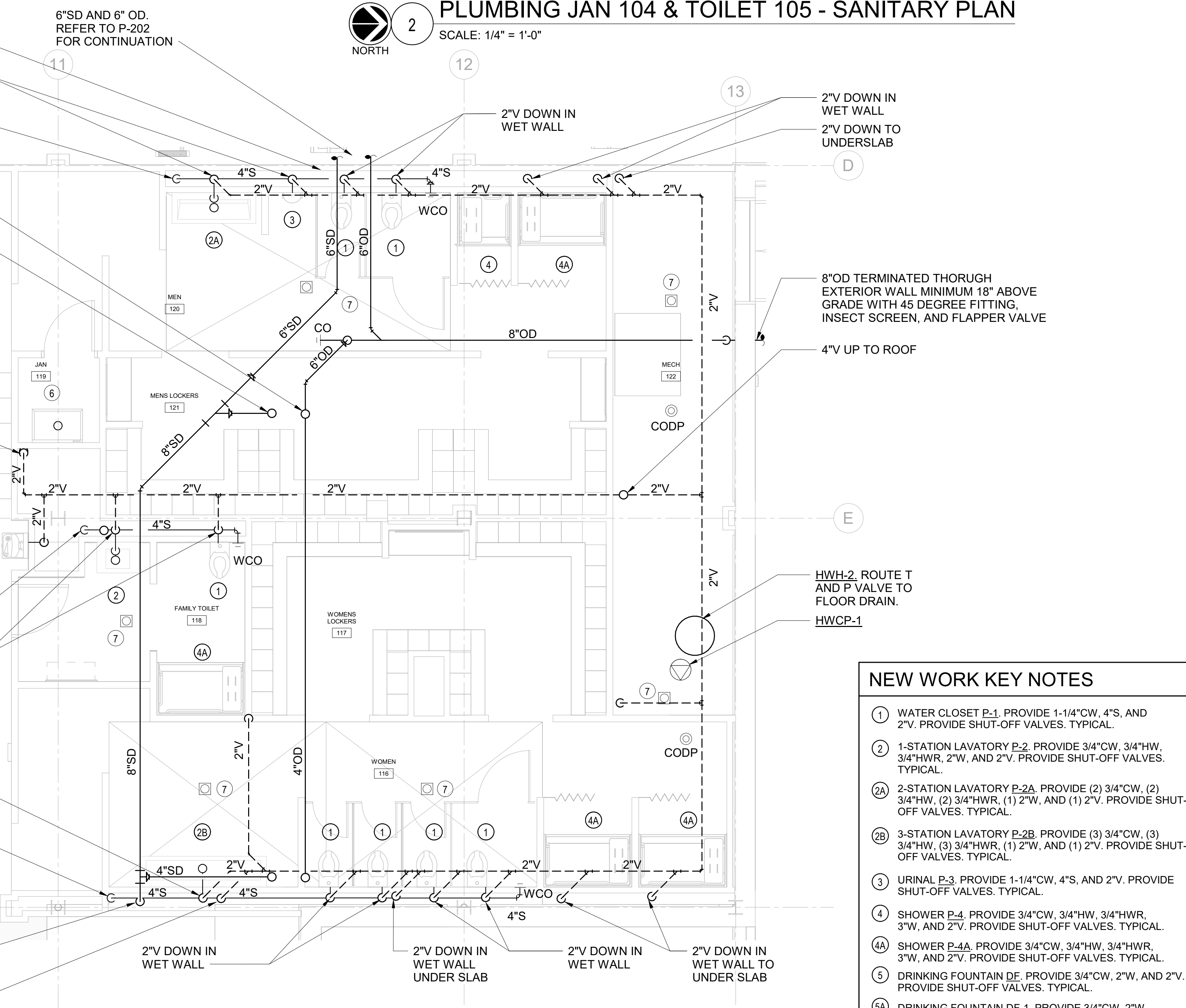
3 PLUMBING JAN 104 & TOILET 105 - DOMESTIC WATER PLAN
 SCALE: 1/4" = 1'-0"
 NORTH



2 PLUMBING JAN 104 & TOILET 105 - SANITARY PLAN
 SCALE: 1/4" = 1'-0"
 NORTH



5 PLUMBING FIRST FLOOR LOCKER ROOMS - DOMESTIC WATER PLAN
 SCALE: 1/4" = 1'-0"
 NORTH



1 PLUMBING FIRST FLOOR LOCKER ROOMS - SANITARY PLAN
 SCALE: 1/4" = 1'-0"
 NORTH

NEW WORK KEY NOTES

- 1 WATER CLOSET P-1. PROVIDE 1-1/4" CW, 4"S, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 2 1-STATION LAVATORY P-2. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 2"V, AND (1) 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 2A 2-STATION LAVATORY P-2A. PROVIDE (2) 3/4" CW, (2) 3/4" HW, (2) 3/4" HWR, (1) 2"V, AND (1) 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 2B 3-STATION LAVATORY P-2B. PROVIDE (3) 3/4" CW, (3) 3/4" HW, (3) 3/4" HWR, (1) 2"V, AND (1) 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 3 URINAL P-3. PROVIDE 1-1/4" CW, 4"S, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 4 SHOWER P-4. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 3"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 4A SHOWER P-4A. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 3"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 5 DRINKING FOUNTAIN DE. PROVIDE 3/4" CW, 2"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 5A DRINKING FOUNTAIN DE-1. PROVIDE 3/4" CW, 2"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 6 JANITOR SINK P-7. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 3"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 7 FLOOR DRAIN ED. PROVIDE 3"V AND 2"V. TYPICAL.

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Key Plan

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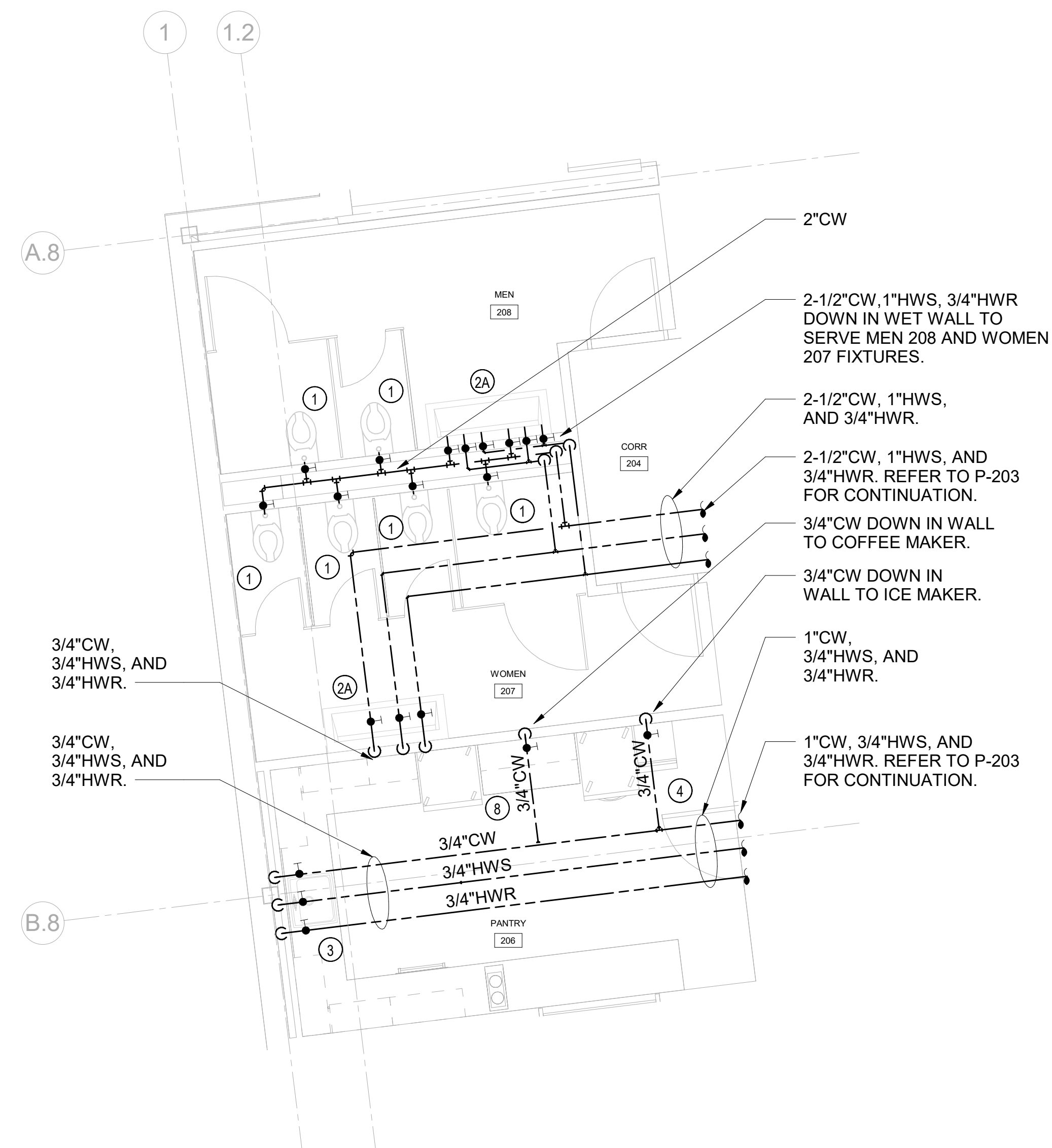
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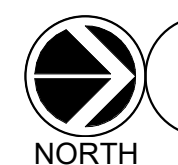
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CONSTRUCTION DOCUMENTS



**PLUMBING PANTRY 206, WOMEN 207, & MEN 208
- DOMESTIC WATER PLAN**

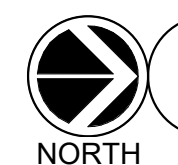


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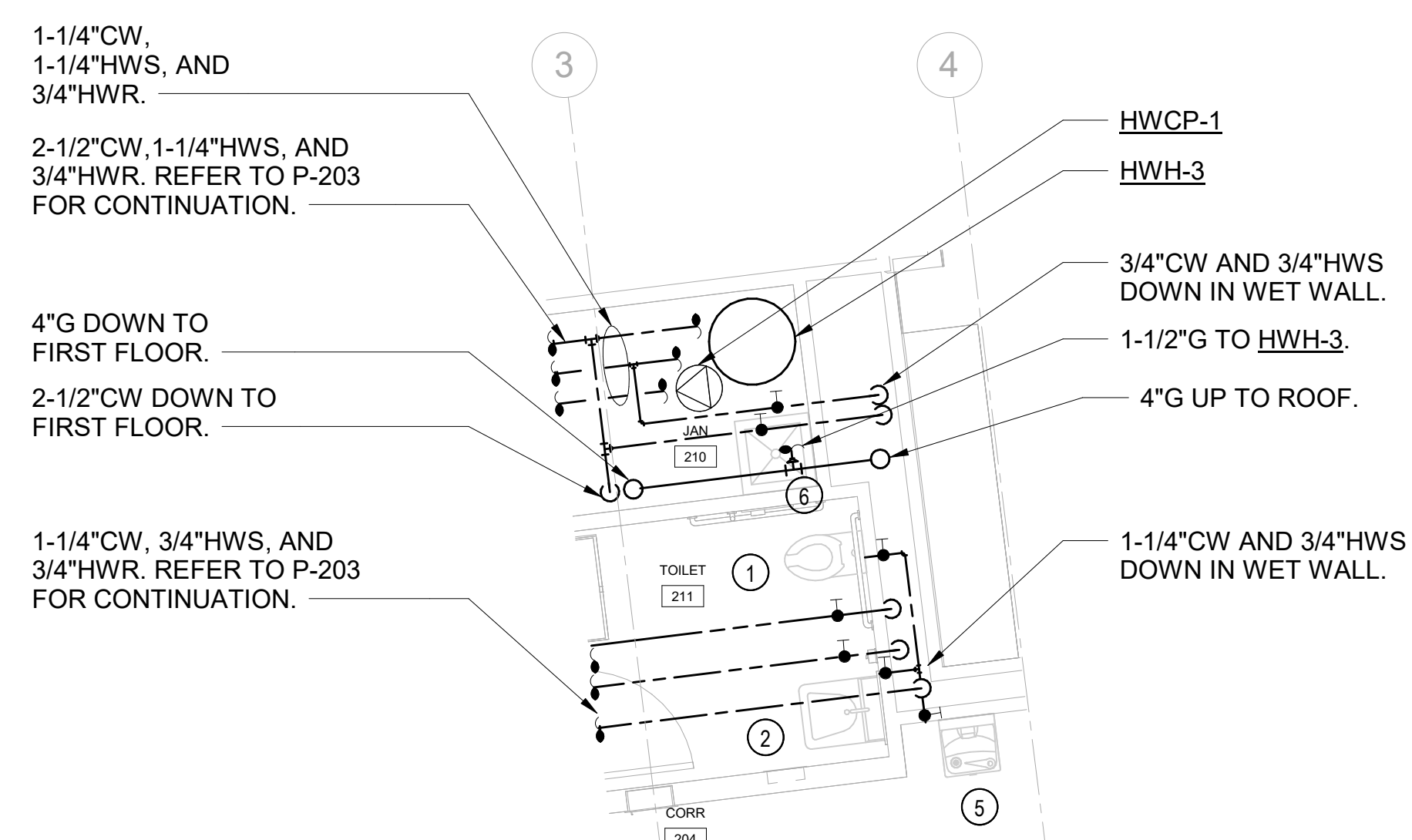


**PLUMBING PANTRY 206, WOMEN 207, & MEN 208
- SANITARY PLAN**

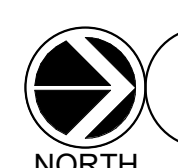


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SCALE: 1/4" = 1'-0"

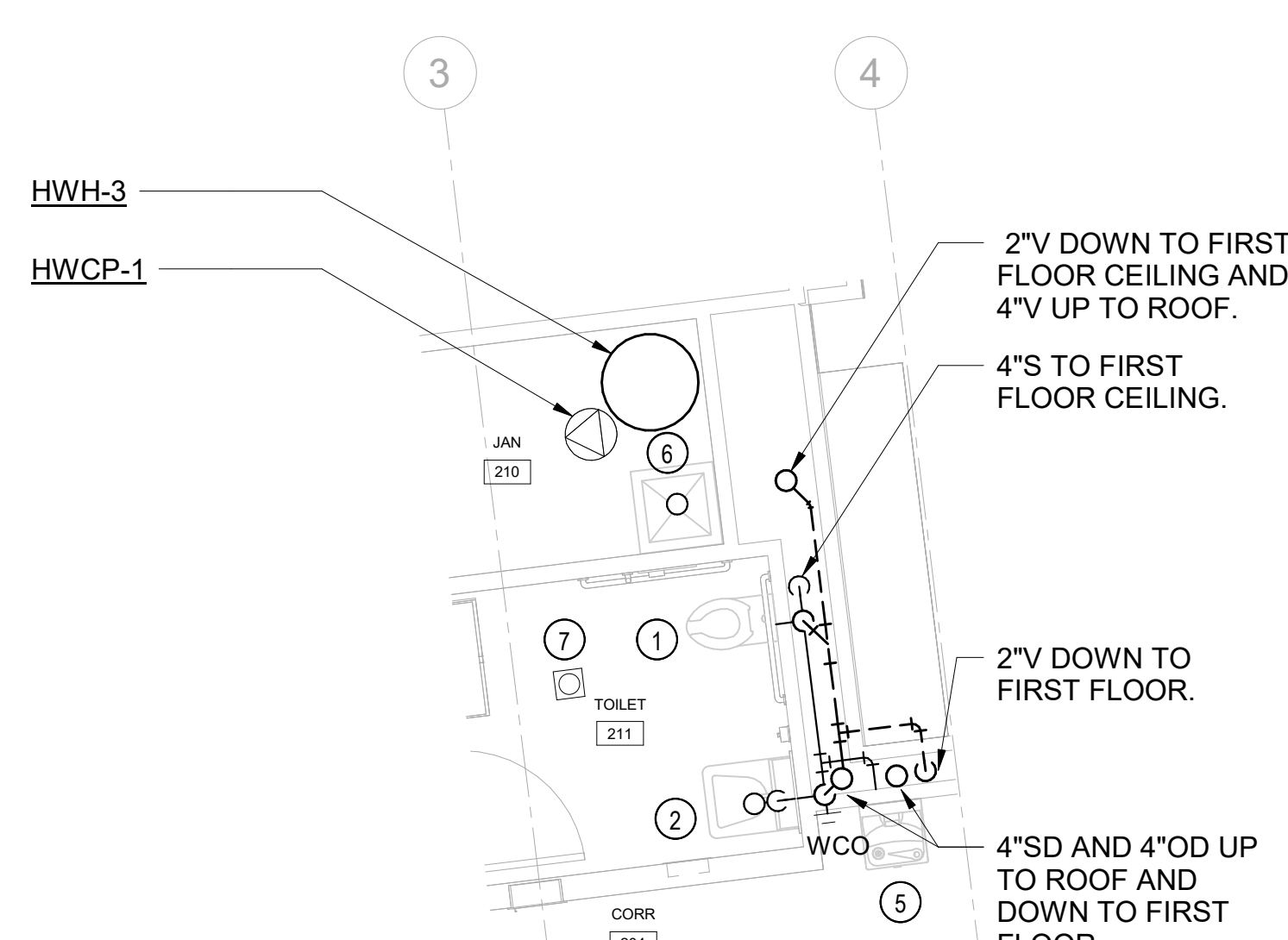


PLUMBING - JAN 210 & TOILET 211 - DOMESTIC WATER PLAN

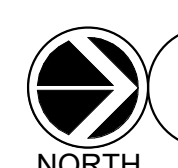


3

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



PLUMBING JAN 210 & TOILET 211 - SANITARY PLAN



1

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

NEW WORK KEY NOTES

- ① WATER CLOSET P-1. PROVIDE 1-1/4" CW, 4"S, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- ② 1-STATION LAVATORY P-2. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- ②A 2-STATION LAVATORY P-2A. PROVIDE (2) 3/4" CW, (2) 3/4" HW, (2) 3/4" HWR, (1) 2"W, AND (1) 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- ③ PANTRY SINK P-6. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- ④ ICE MAKER IM-1. PROVIDE 3/4" CW. PROVIDE SHUT-OFF VALVES. TYPICAL.
- ⑤ DRINKING FOUNTAIN DF-1. PROVIDE 3/4" CW, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- ⑥ JANITOR SINK P-7. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 3"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- ⑦ FLOOR DRAIN FD. PROVIDE 3"W AND 2"V. TYPICAL.
- ⑧ COFFEE MAKER CM. PROVIDE 3/4" CW. PROVIDE SHUT-OFF VALVE AND BACKFLOW PREVENTER.

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**PLUMBING
SECOND FLOOR
ENLARGED PLANS**

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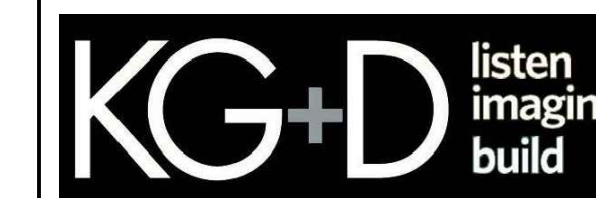
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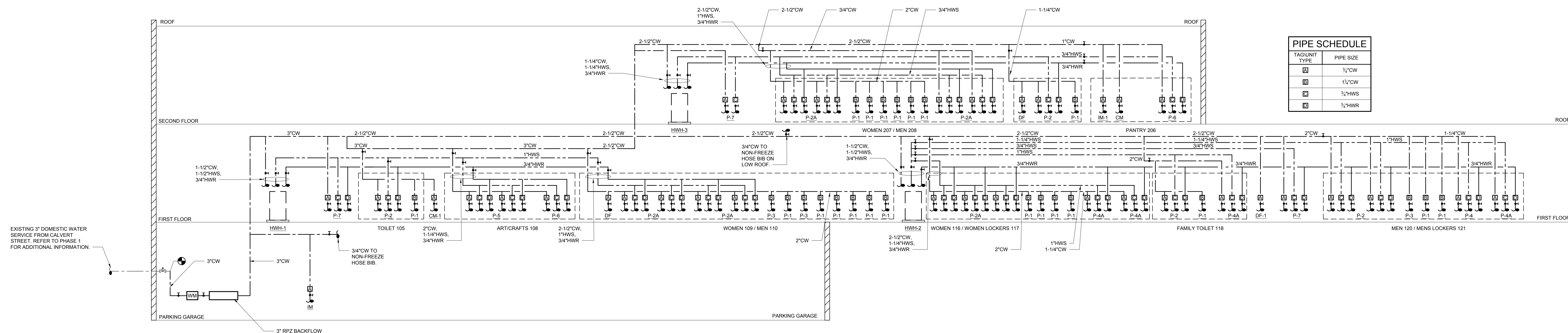
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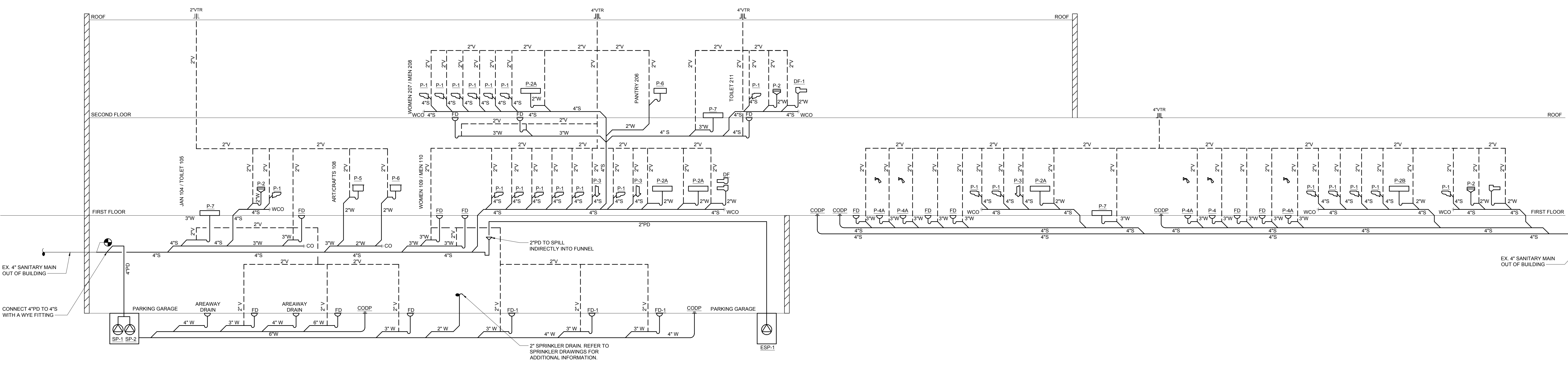
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CONSTRUCTION DOCUMENTS



2 DOMESTIC WATER RISER DIAGRAM
SCALE: NTS



1 SANITARY RISER DIAGRAM
SCALE: NTS

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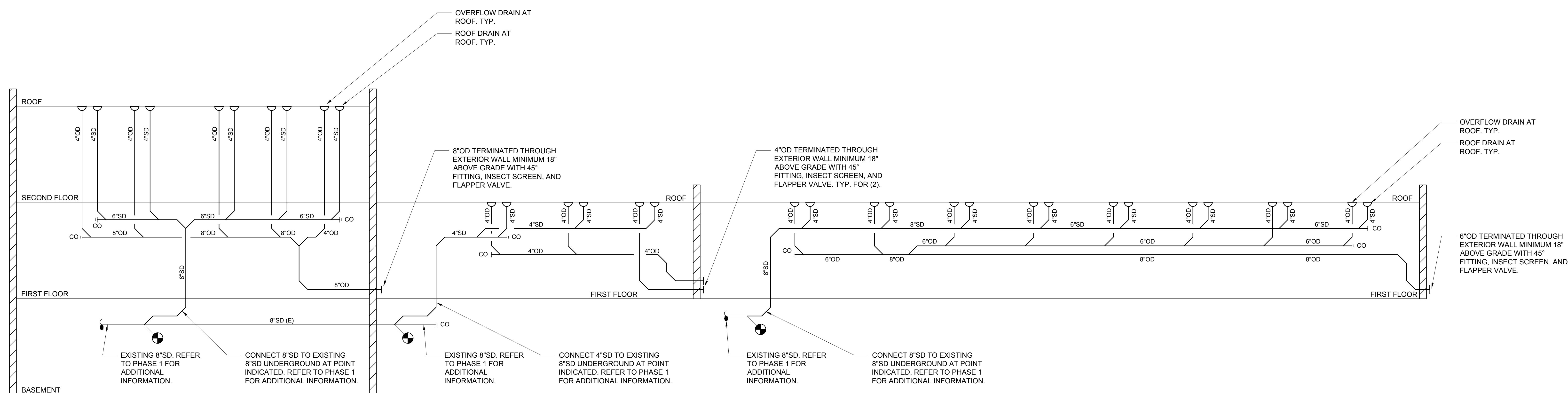
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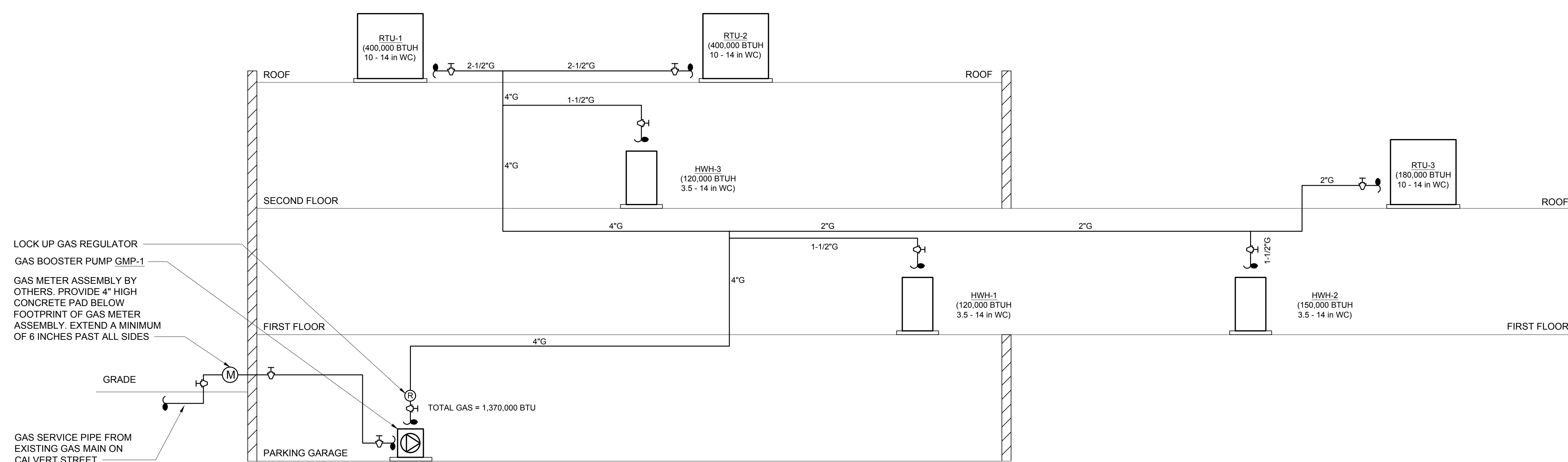
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PLUMBING RISER DIAGRAMS 1 OF 2

| | | | |
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2 PLUMBING STORM RISER DIAGRAM
SCALE: NTS



1 PLUMBING GAS RISER DIAGRAM
SCALE: NTS

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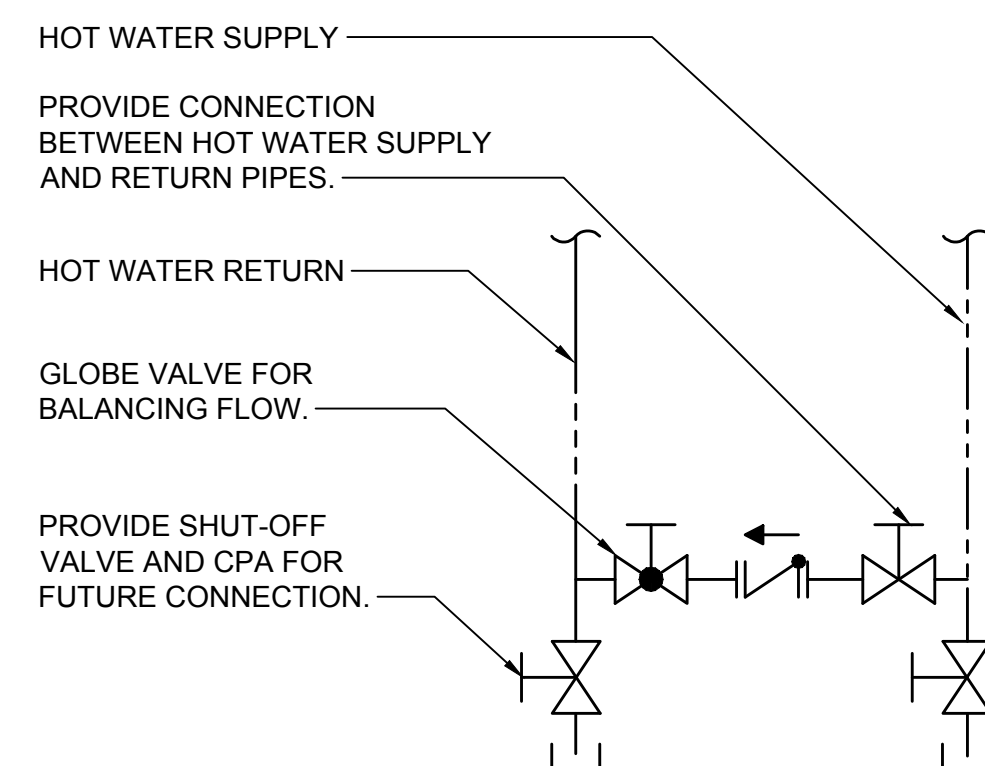
**PLUMBING RISER
DIAGRAM 2 OF 2**

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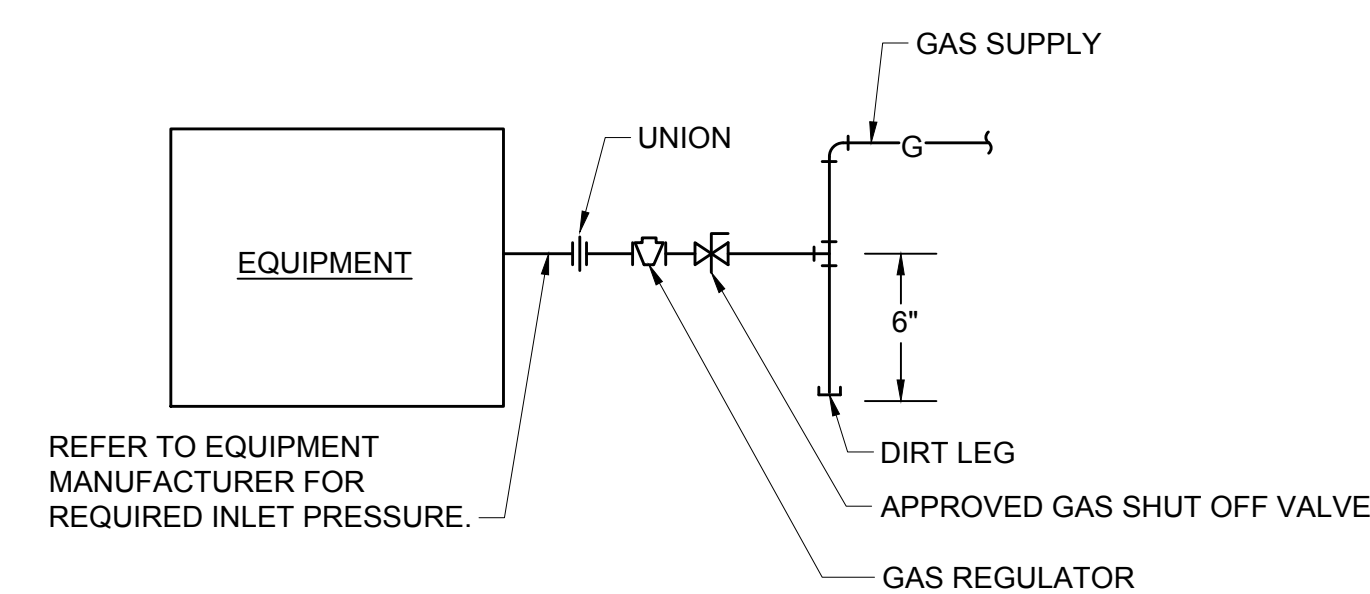
P-502



NOTE:
HOT WATER CIRCULATION CONNECTION SHALL BE LOCATED THROUGHOUT BUILDING AS REQUIRED TO ACHIEVE EFFICIENT HOT WATER SUPPLY

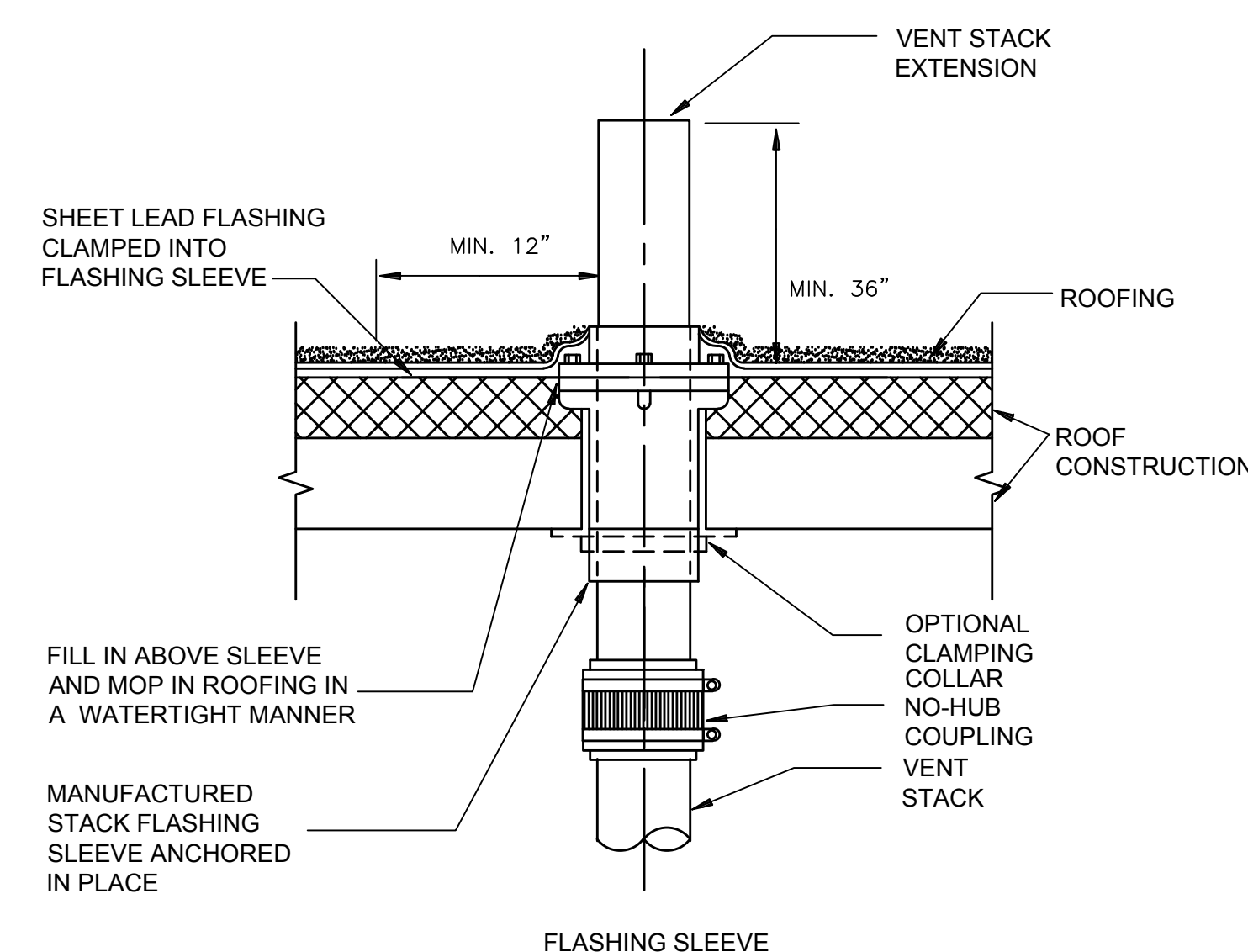
| MAXIMUM PIPING LENGTH (FEET) | | |
|------------------------------|-------------------------|-------------------------------|
| NOMINAL PIPE SIZE (INCHES) | PUBLIC LAVATORY FAUCETS | OTHER FIXTURES AND APPLIANCES |
| 1/4 | 6 | 50 |
| 3/8 | 4 | 50 |
| 1/2 | 3 | 50 |
| 3/4 | 2 | 43 |
| 1 | 1 | 32 |
| 1 1/4 | 0.5 | 21 |

8 HOT WATER RECIRC CONNECTION DETAIL
SCALE: NONE



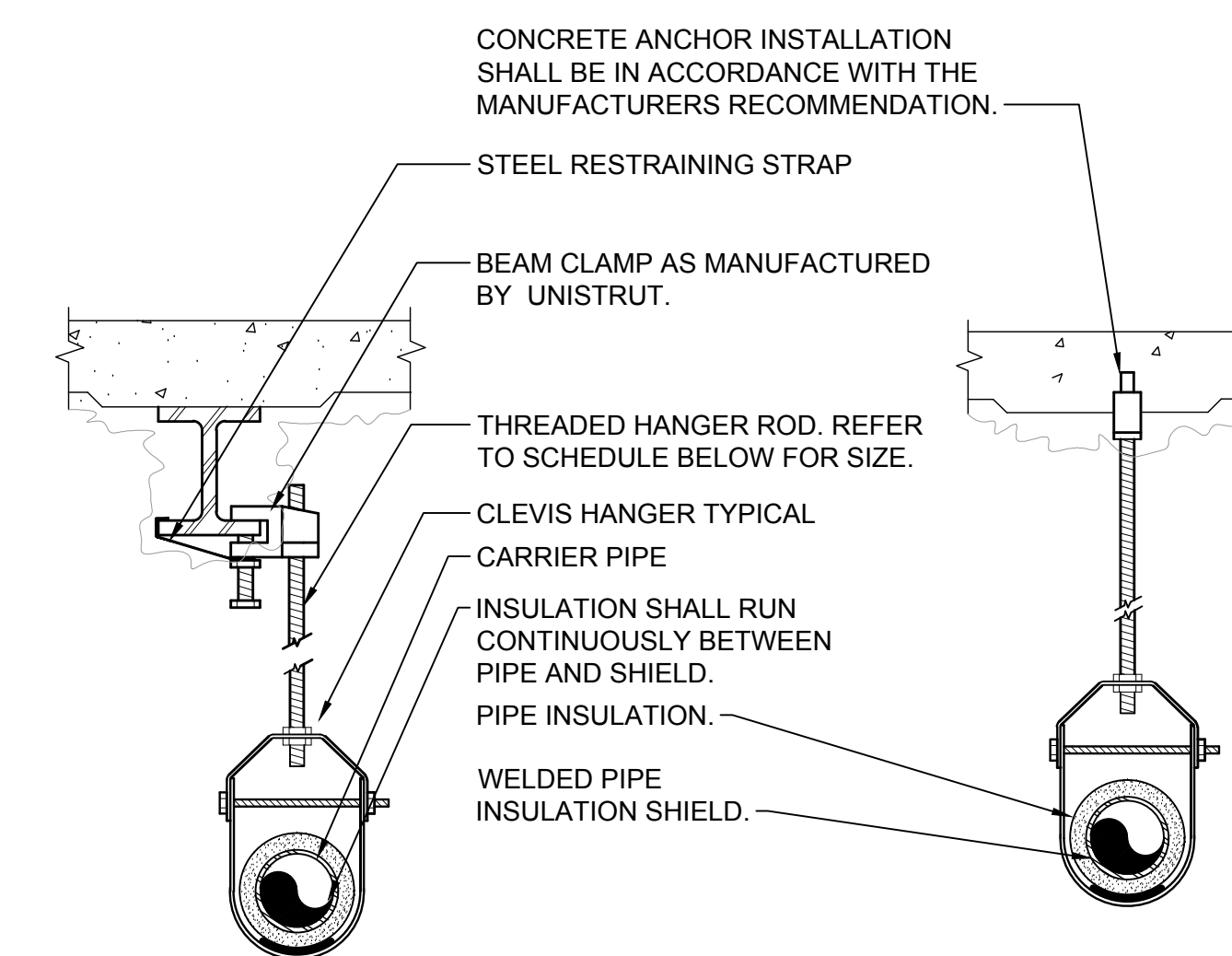
REFER TO EQUIPMENT MANUFACTURER FOR REQUIRED INLET PRESSURE.

6 EQUIPMENT GAS CONNECTION SCHEMATIC
SCALE: NONE



NOTE: VENT STACK OUTLET TO BE 10 FT. (MIN) FROM ANY WALL OR STRUCTURE AND 3 FT ABOVE STRUCTURE

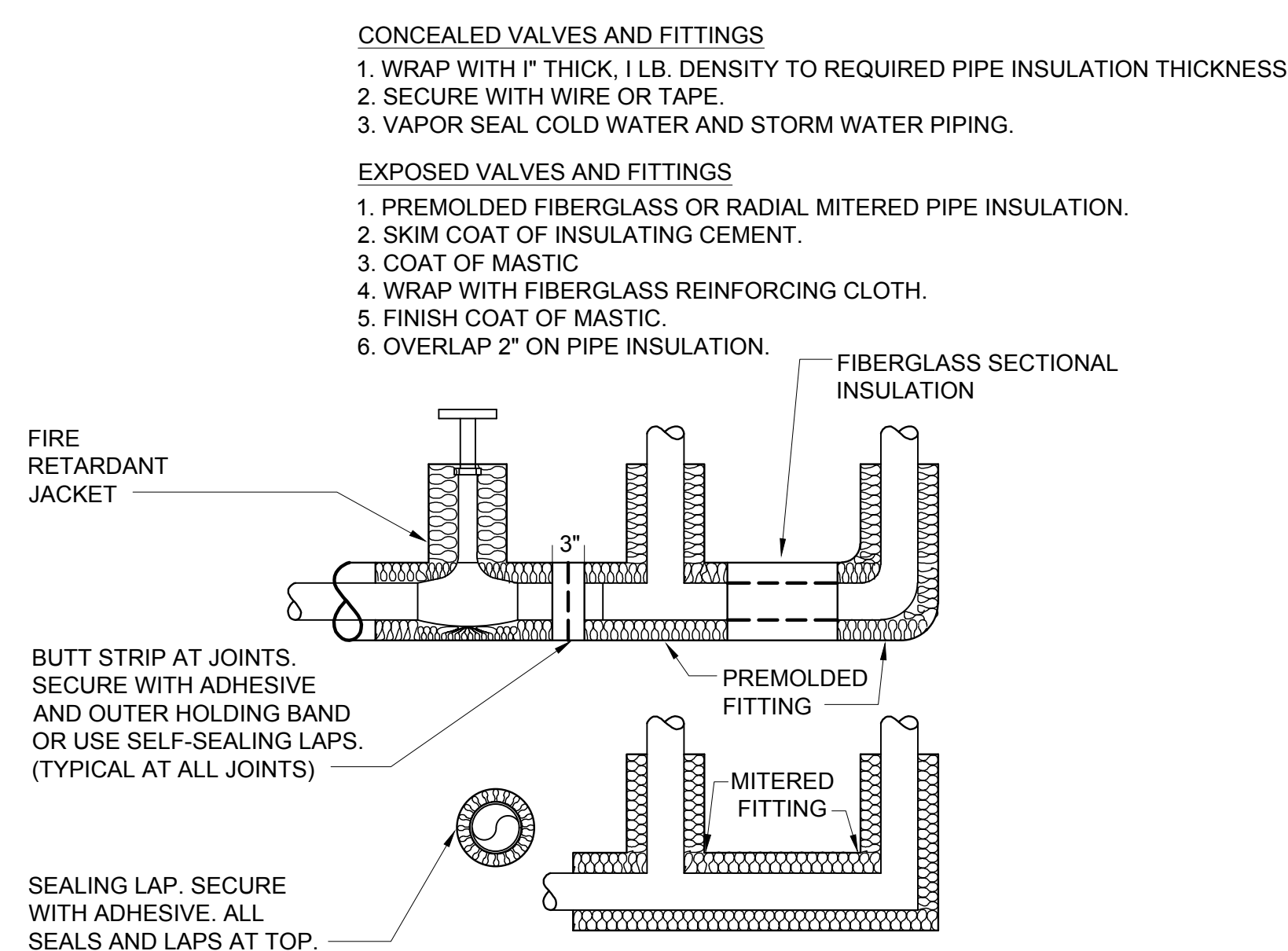
4 VENT THRU ROOF DETAIL
SCALE: NONE



| PIPE HANGER SCHEDULE | | | | | |
|----------------------|---------|-----------|-------|------|--------|
| PIPE DIA. | 3/4"-2" | 2 1/2"-3" | 4"-5" | 6" | 8"-12" |
| HANGER DIA. | 3/8" | 1/2" | 5/8" | 3/4" | 7/8" |

- NOTES:
1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
 2. FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
 3. FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
 4. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
 5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
 6. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

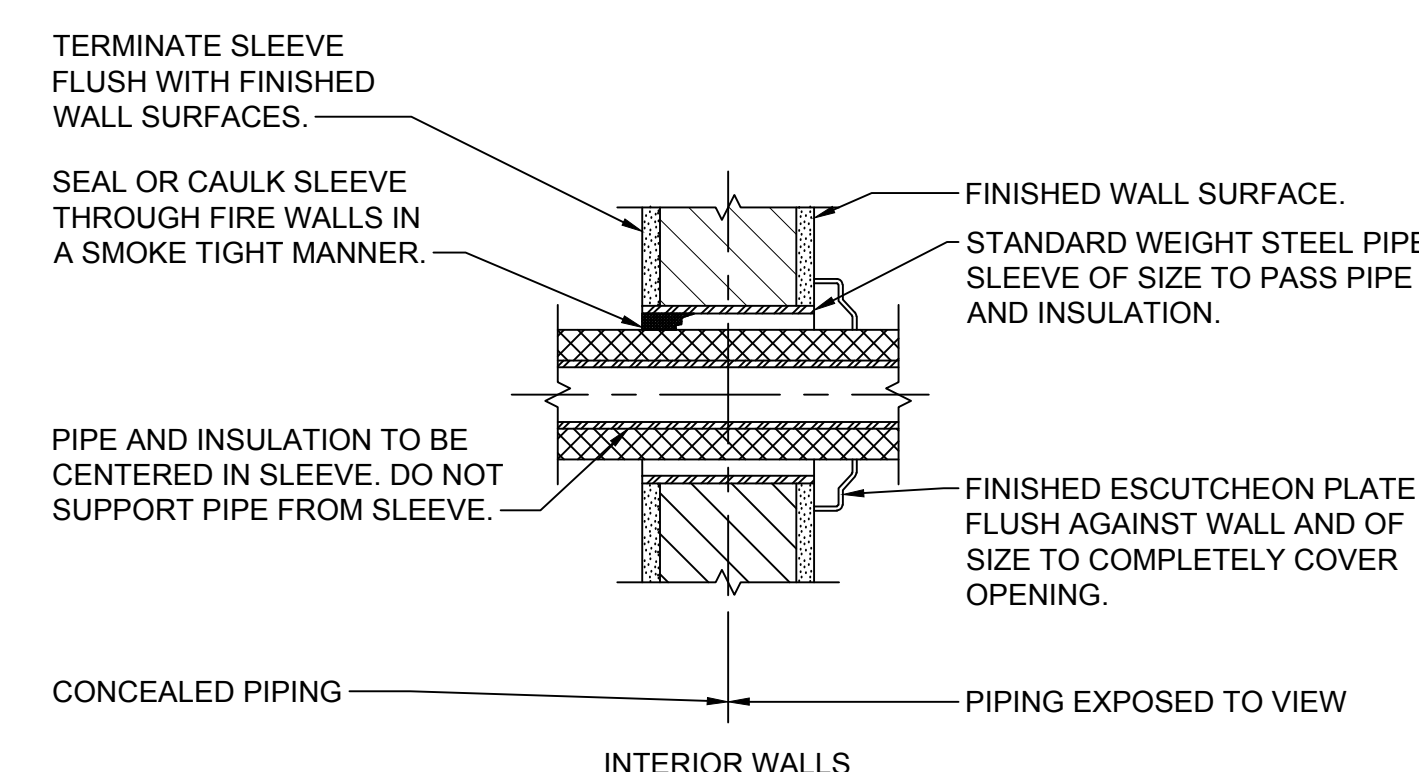
2 PIPE HANGER DETAIL
SCALE: NONE



BUTT STRIP AT JOINTS. SECURE WITH ADHESIVE AND OUTER HOLDING BAND OR USE SELF-SEALING LAPS. (TYPICAL AT ALL JOINTS)

SEALING LAP. SECURE WITH ADHESIVE. ALL SEALS AND LAPS AT TOP.

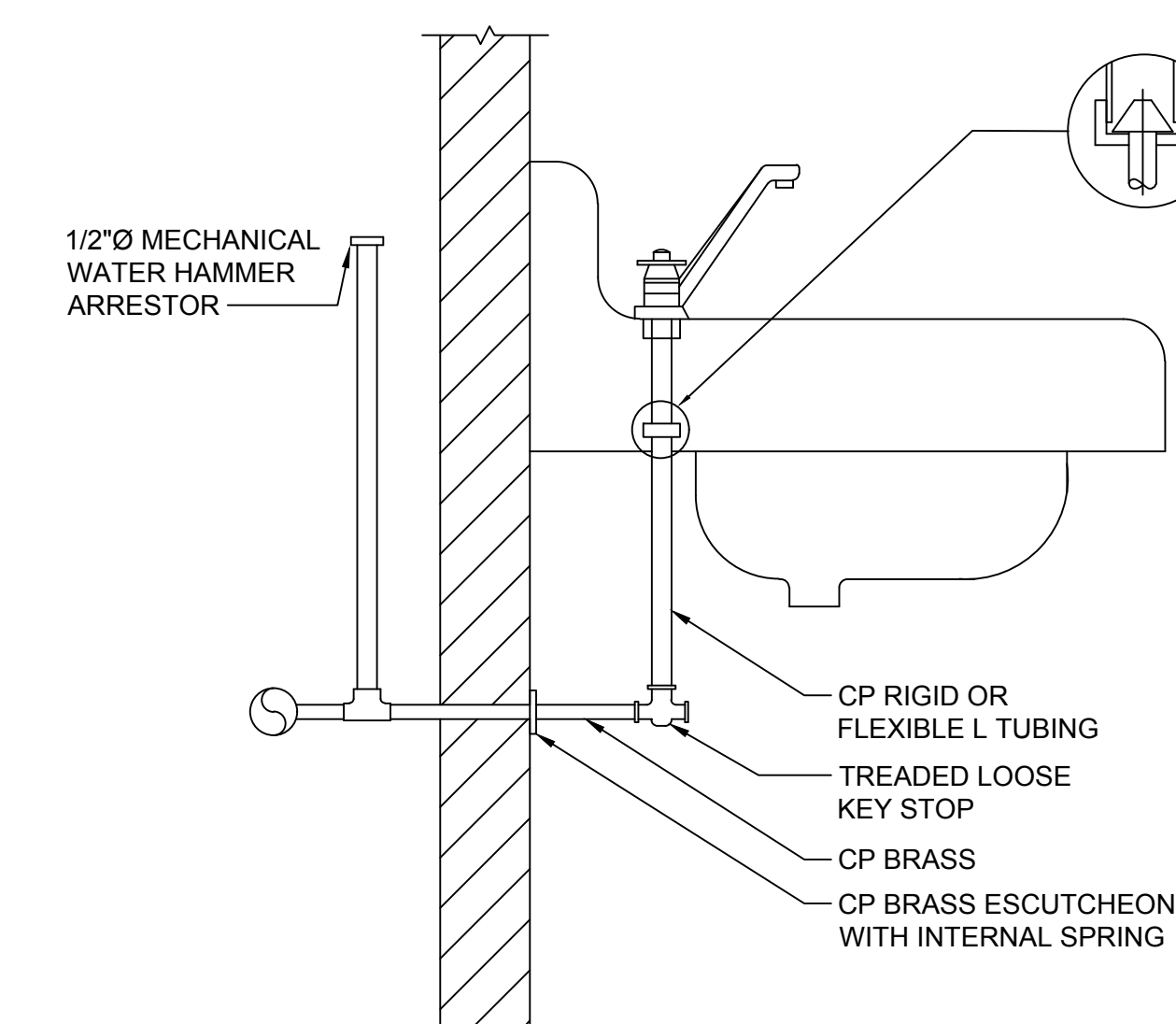
7 PIPE INSULATION DETAIL
SCALE: NONE



CONCEALED PIPING

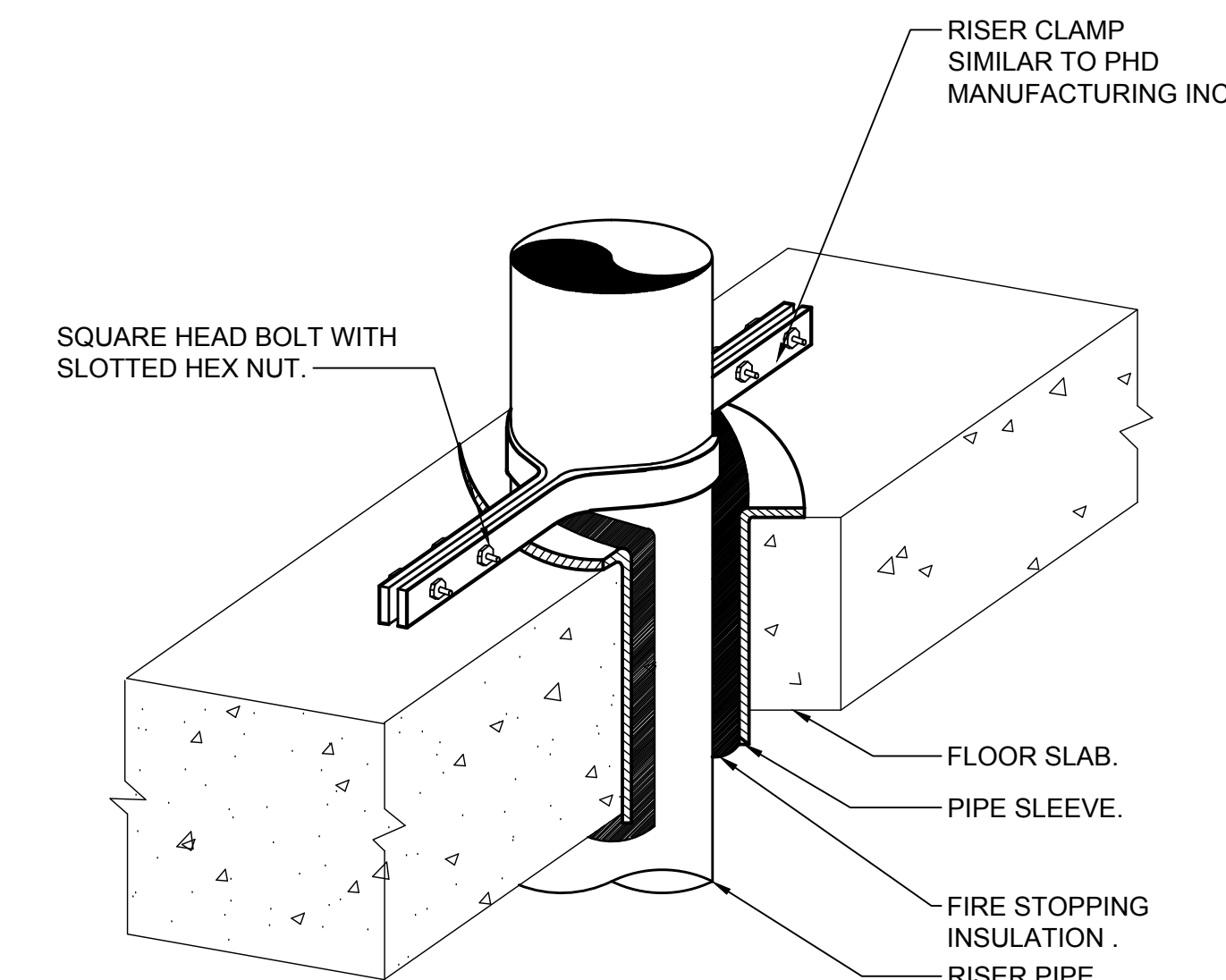
PIPING EXPOSED TO VIEW

5 PIPE WALL SLEEVE DETAIL FOR INTERIOR WALLS
SCALE: NONE



NOTE:
1. SIMILAR SUPPLY ARRANGEMENT TO OTHER FIXTURES.

3 SUPPLY LAVATORY SUPPLY CONNECTION
SCALE: NONE



1 VERTICAL PIPE SUPPORT DETAIL
SCALE: NONE

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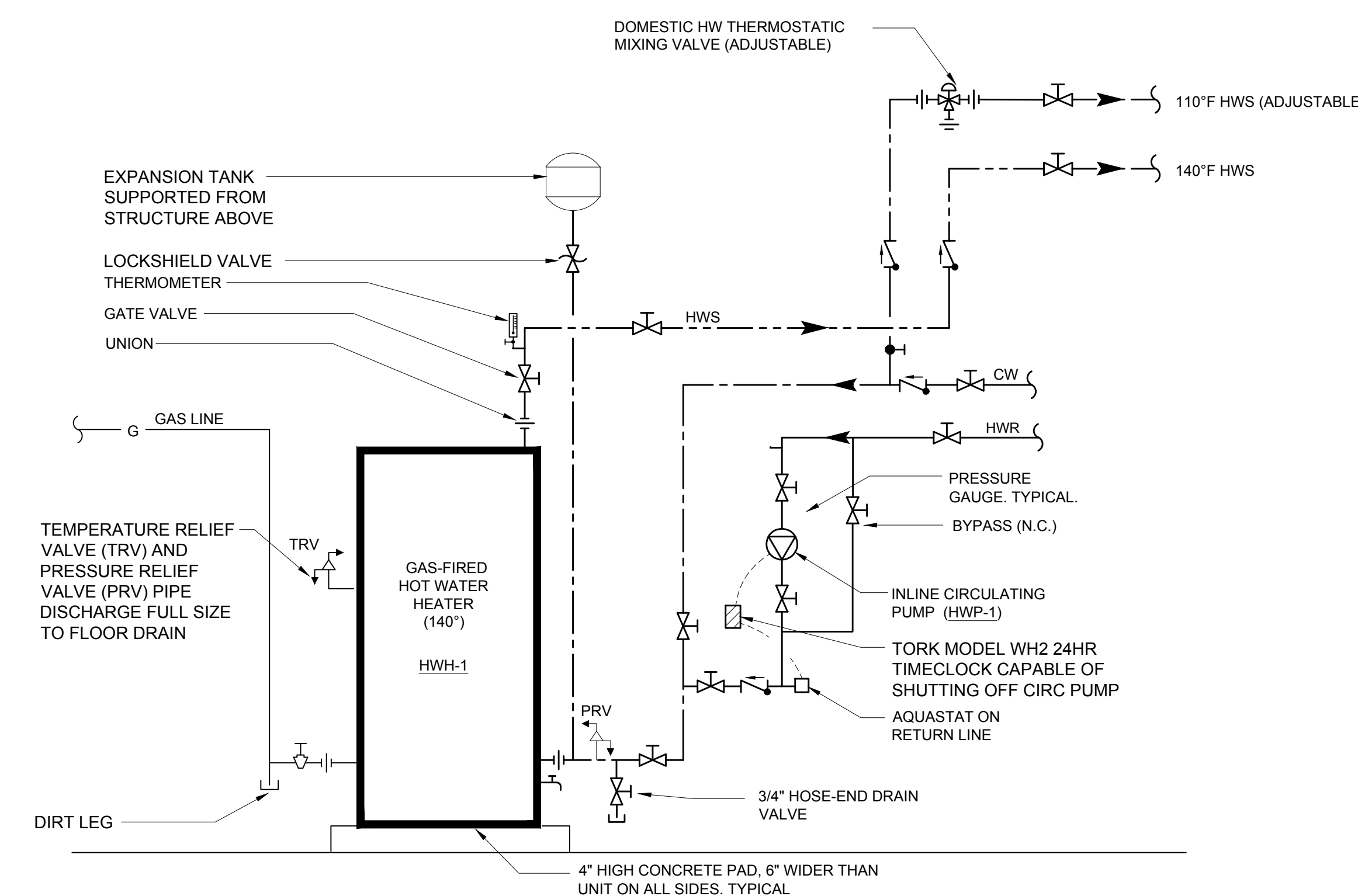
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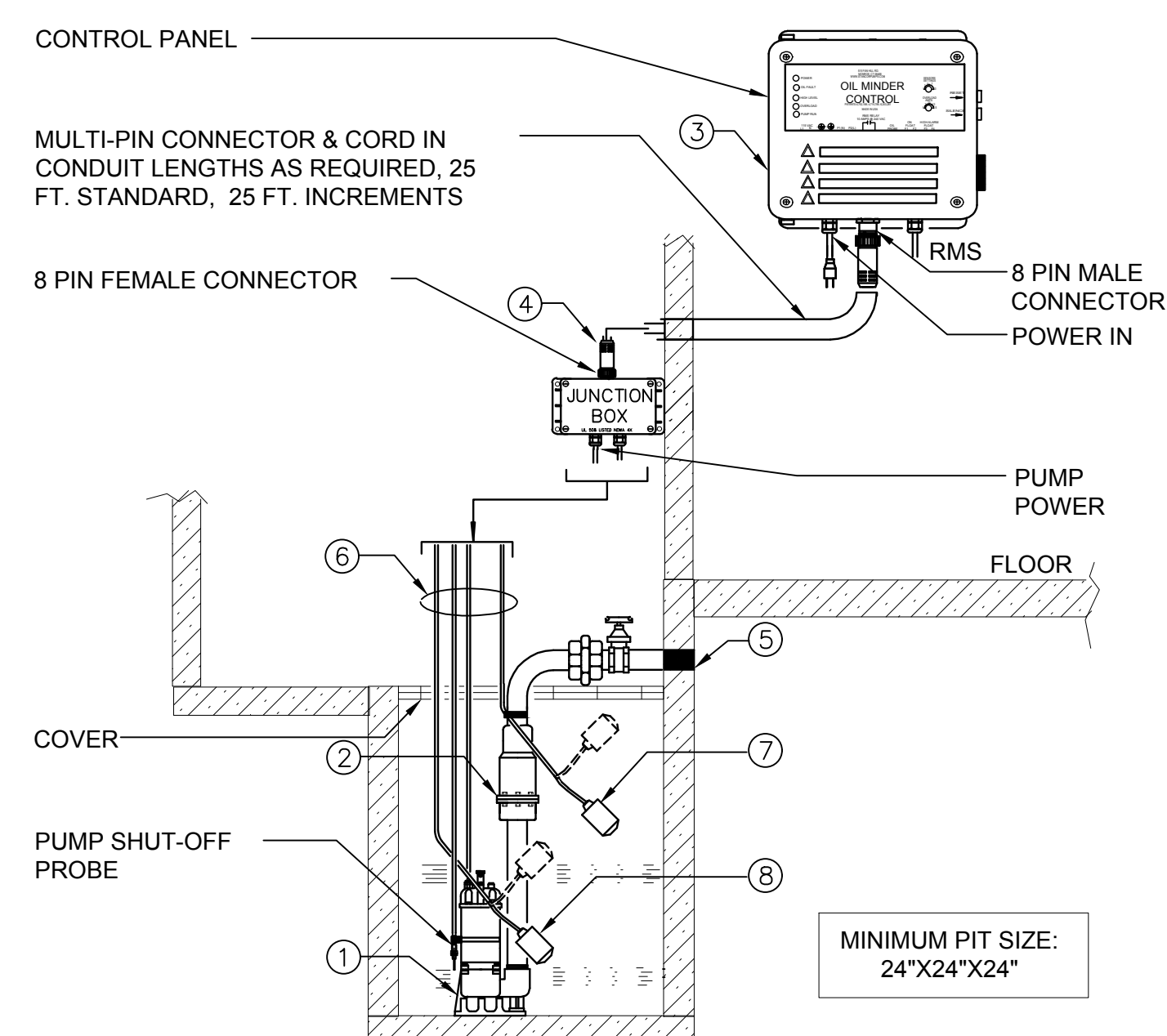
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| PLUMBING PIPE MATERIAL SCHEDULE | | | | | | | |
|--------------------------------------|-----------|--------------|--|------------------------------------|----------------|-------------------------|-----------------------|
| PIPE SYSTEM | SIZE | PIPE | | | FITTINGS | | |
| | | MATERIAL | TYPE / WEIGHT | STANDARD | MATERIALS | TYPE / WEIGHT | STANDARD |
| DOMESTIC WATER PIPING (CW, HWS, HWR) | ALL | COPPER | HARD / TYPE L | ASTM B88 | COPPER | 95 / 5 SOLDER LEAD FREE | ASTM B828 ASME B16.22 |
| WATER SERVICE PIPING | 3/4" - 4" | COPPER | HARD / TYPE K | ASTM B75 ASTM B88 | COPPER | 95 / 5 SOLDER LEAD FREE | ASTM B828 ASME B16.22 |
| | ALL | DUCTILE IRON | SCHEDULE 40 | AWWA C151/A21.51 | DUCTILE IRON | GROOVED END | AWWA C606 |
| SANITARY, WASTE, VENT (ABOVE GROUND) | < 4" | COPPER | DWV HARD / TYPE L | ASTM B88 | DWV COPPER | 95 / 5 SOLDER LEAD FREE | ASTM B828 ASME B16.22 |
| | ALL | CAST IRON | HUBLESS / HUB AND SPIGOT SCHEDULE 40 / SERVICE | ASTM A74 ASTM A888 CISPI 301 / 310 | CAST IRON | LEAD / OAKUM | ASTM B29 |
| SANITARY, WASTE, VENT (BELOW GROUND) | ALL | CAST IRON | HUB AND SPIGOT EXTRA-HEAVY | ASTM A74 ASTM A888 CISPI 301 / 310 | CAST IRON | LEAD / OAKUM | ASTM B29 |
| BUILDING SEWER | ALL | CAST IRON | HUB AND SPIGOT EXTRA-HEAVY | ASTM A74 ASTM A888 CISPI 301 / 310 | CAST IRON | LEAD / OAKUM | ASTM B29 |
| STORM (ABOVE GROUND) | ALL | CAST IRON | HUBLESS / HUB AND SPIGOT SCHEDULE 40 / SERVICE | ASTM A74 ASTM A888 CISPI 301 / 310 | CAST IRON | LEAD / OAKUM | ASTM B29 |
| NATURAL GAS | ≤ 4" | STEEL | SCHEDULE 40 | ASTM A53 ASTM A106 | MALLEABLE IRON | THREADED | ASME B16.3 |
| | > 4" | STEEL | SCHEDULE 40 | ASTM A53 ASTM A106 | MALLEABLE IRON | WELDED | ASME B16.3 |

NOTES:
1. INSTALL DUCTILE IRON PIPING UNDER BUILDING SLAB WITH RESTRAINED JOINTS ACCORDING TO AWWA C600 AND AWWA M41.
2. INSTALL UNDERGROUND COPPER AND DUCTILE IRON PIPE IN PE ENCASUREMENT ACCORDING TO ASTM A 674 OR AWWA C105/A21.5
3. DUCTILE IRON WATER SERVICE PIPING SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104.
4. WATER SERVICE PIPE SHALL CONFORM TO NSF 61 AND SHALL HAVE A WORKING PRESSURE RATING OF NOT LESS THAN 160 PSI AT 73.4 °F
5. ALL MEDICAL GAS PIPE SHALL BE MANUFACTURER CLEANED, PURGED, AND SEALED FOR MEDICAL GAS SERVICE, OR ACCORDING TO CGA G-4.1 FOR OXYGEN SERVICE. INCLUDE STANDARD COLOR MARKING "OXY", "MED", "OXYMED", OR "ACR/MED" IN BLUE FOR TYPE L TUBE.

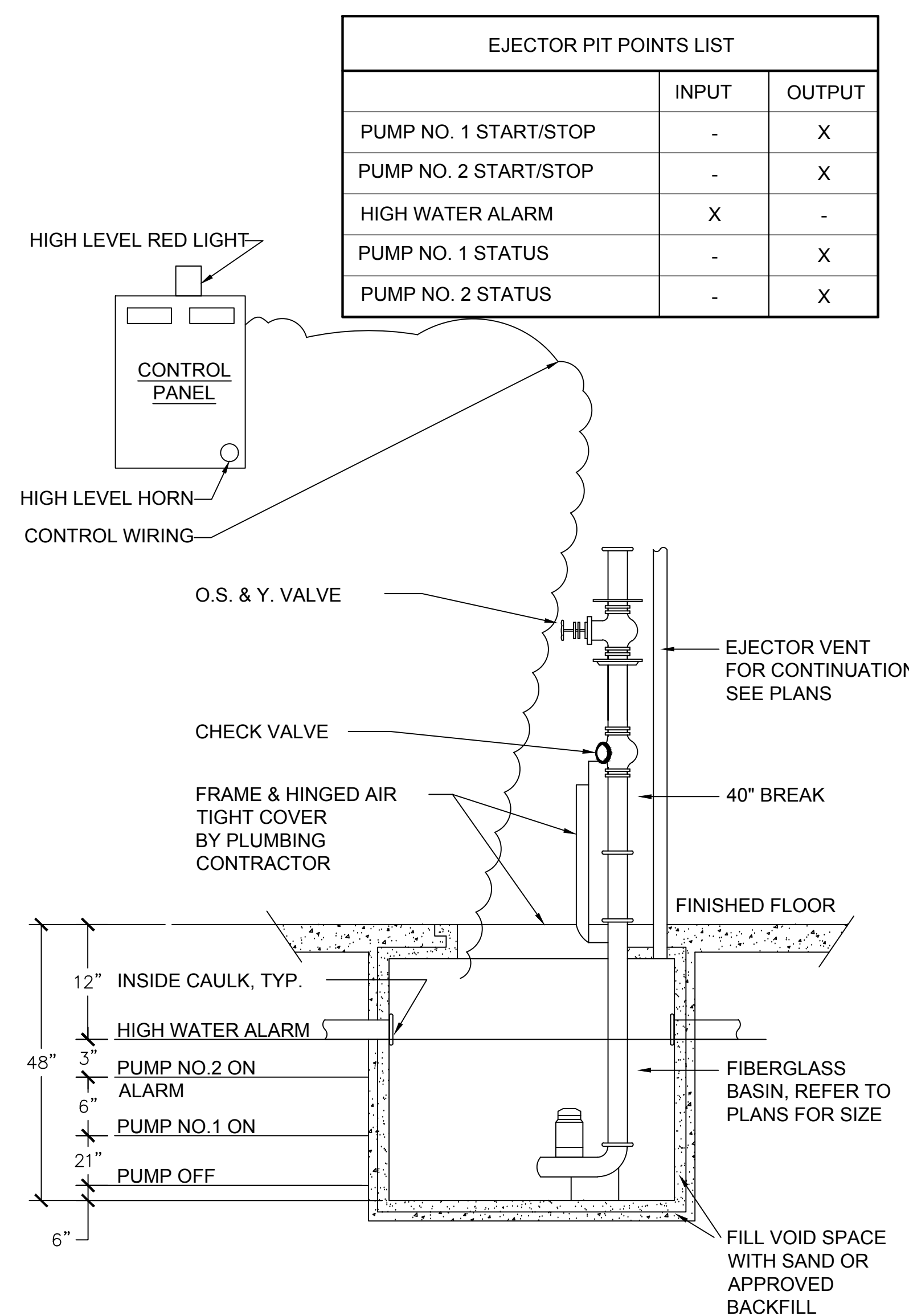


2 HOT WATER HEATER SCHEMATIC
SCALE: NONE

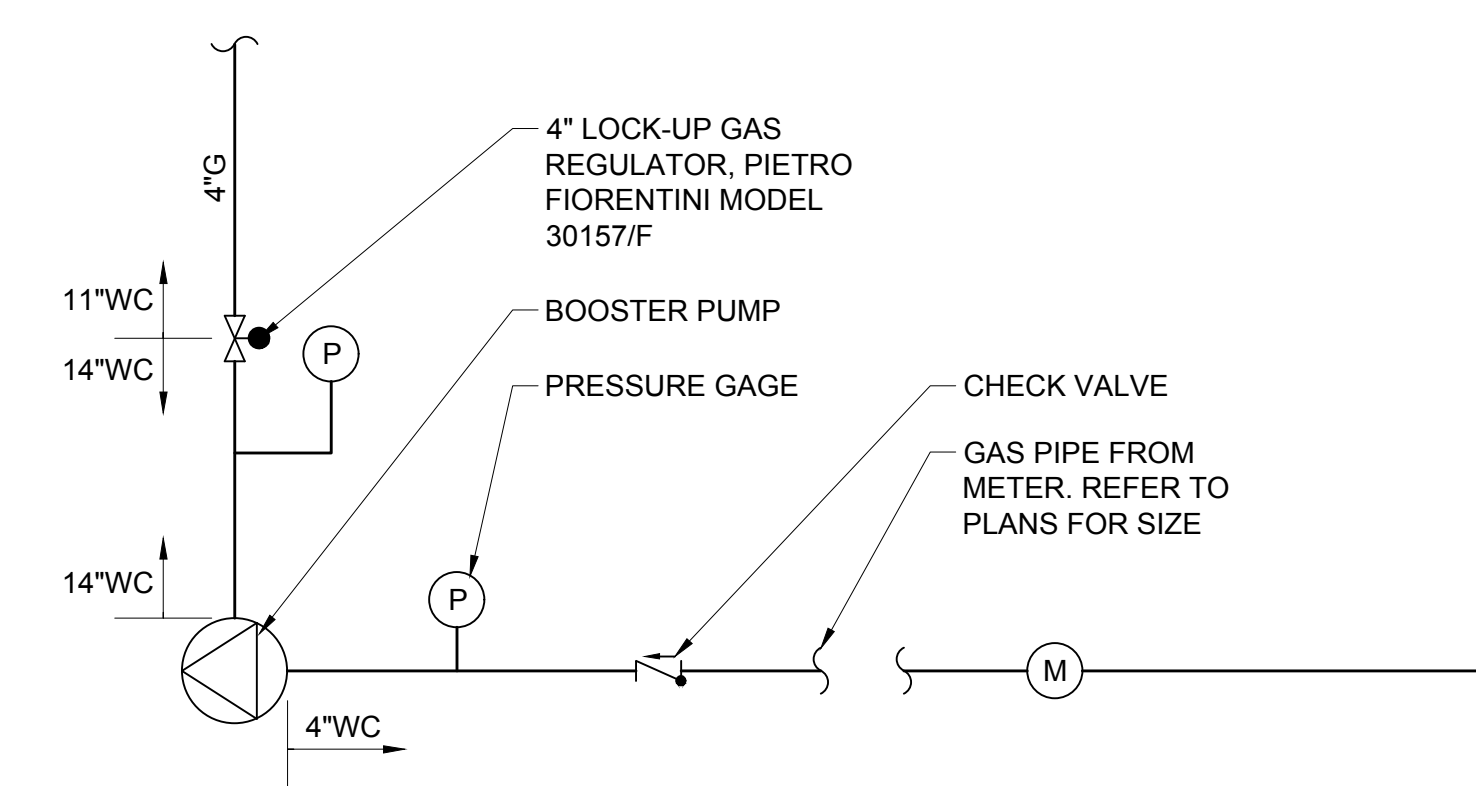


- 1.) STANCOR SUBMERSIBLE EFFLUENT PUMP, 2" DISCHARGE CONNECTION.
- 2.) STANCOR CHECK VALVE.
- 3.) STANCOR OIL MINDER 115V, 10' CONTROL SYSTEM WITH OPTIONAL BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. A JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR & CORD IN LENGTHS AS REQUIRED, 25 FT. IS STANDARD, OPTIONAL 25 FT. INCREMENTS. LIGHTS FOR OIL SPILL, POWER, HIGH LIQUID LEVEL, OVERLOAD & PUMP RUN.
- 4.) JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR AND CORD IN LENGTHS AS REQUIRED, 25 FT. IS STANDARD, OPTIONAL 25 FT. INCREMENTS AVAILABLE.
- 5.) ALL BURIED PUMP PRESSURE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPECOAT CT CORROSION PROTECTION TAPE.
- 6.) OIL MINDER CABLE, POWER CABLE, PROBE CABLE, HIGH LIQUID ALARM CABLE & PUMP ON FLOAT CABLE.
- 7.) HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING.
- 8.) PUMP ON FLOAT.
- 9.) PROVIDE (2) 25 FT LENGTH MULTI-PIN CONNECTOR AND CORD FOR CONNECTION BETWEEN PUMP AND CONTROL PANEL.

4 ELEVATOR SUMP PUMP DETAIL
SCALE: NONE



3 DETAIL OF SUMP PUMP WITHIN SUMP PIT, CONTROLS DIAGRAM AND POINTS LIST
SCALE: NONE



1 GAS BOOSTER PUMP SCHEMATIC
SCALE: NONE

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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

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PLUMBING DETAILS

Job No. NKGD0207.00 Date 03/01/2024

Scale AS NOTED Drawn / Checked HM / RG

Sheet Number

P-702

SYMBOLS AND ABBREVIATIONS

| SYMBOL | ABBREVIATION | DESCRIPTION |
|-----------|--------------|---|
| - | AC- | AIR CONDITIONING UNIT |
| - | AD | ACCESS DOOR |
| - | AFF | ABOVE FINISHED FLOOR |
| - | AHC | ABOVE HUNG CEILING |
| - | AP | ACCESS PANEL |
| - | BHP | BRAKE HORSEPOWER |
| - | BTU | BRITISH THERMAL UNIT |
| - | CFM | CUBIC FEET PER MINUTE |
| - | COD | CABLE OPERATED DAMPER |
| - | DB | DRY BULB TEMPERATURE |
| - | DIA. OR Ø | DIAMETER |
| - | DX | DIRECT EXPANSION |
| - | EA | EXHAUST AIR |
| - | EAT | ENTERING AIR TEMPERATURE |
| - | ER | EXHAUST REGISTER |
| - | ESP | EXTERNAL STATIC PRESSURE |
| - | EWT | ENTERING WATER TEMPERATURE |
| - | FCU | FAN COIL UNIT |
| - | FPM | FEET PER MINUTE |
| - | FPS | FEET PER SECOND |
| - | GPM | GALLONS PER MINUTE |
| - | HP | HORSE POWER |
| - | LAT | LEAVING AIR TEMPERATURE |
| - | LF | LINEAR FEET |
| - | LWT | LEAVING WATER TEMPERATURE |
| - | MBH | 1000 BRITISH THERMAL UNITS PER HOUR |
| - | MER | MECHANICAL EQUIPMENT ROOM |
| - | NIC | NOT IN CONTRACT |
| - | OAI | OUTSIDE AIR INTAKE |
| - | PSI | POUNDS PER SQUARE INCH |
| - | RA | RETURN AIR |
| - | RF- | RETURN FAN |
| - | RPM | REVOLUTIONS PER MINUTE |
| - | SA | SUPPLY AIR |
| - | SP | STATIC PRESSURE |
| - | TD | TRANSFER DUCT |
| - | TF- | TRANSFER FAN |
| - | TSP | TOTAL STATIC PRESSURE |
| - | TYP. | TYPICAL |
| - | U.O.N. | UNLESS OTHERWISE NOTED |
| - | WB | WET BULB TEMPERATURE |
| - | WG | INCHES OF WATER GAUGE |
| --- | EX. | EXISTING TO REMAIN |
| ---- | REL. | REMOVE AND RELOCATE |
| ===== | NEW | NEW WORK |
| ----- | DEM. | EXISTING TO BE REMOVED |
| Ⓢ | - | THERMOSTAT |
| Ⓢ | - | CARBON DIOXIDE DETECTOR |
| Ⓢ | - | DUCT MOUNTED SMOKE DETECTOR |
| C/N | - | CARBON MONOXIDE / NOX SENSOR |
| → | - | AIR INTO REGISTER |
| ⊙ | - | POINT OF CONNECTION DISCONNECTION |
| ⊞ | SR | SUPPLY REGISTER |
| ⊞ | CD | 1-WAY |
| ⊞ | CD | 2-WAY |
| ⊞ | CD | 2-WAY |
| ⊞ | CD | 3-WAY |
| ⊞ | CD | 4-WAY |
| ⊞RR/RG/ER | | RETURN REGISTER/GRILLE/EXHAUST REGISTER |
| ⊞ | - | SUPPLY DUCT UP |
| ⊞ | - | SUPPLY DUCT DOWN |
| ⊞ | - | RETURN DUCT UP |
| ⊞ | - | RETURN DUCT DOWN |
| ⊞ | - | TRANSITION FROM SQUARE TO ROUND DUCT |
| ⊞ | - | TRANSITION |
| ⊞ | - | DUCT DROP |
| ⊞ | - | DUCT RISE |
| ⊞ | - | SQUARE VANED ELBOW |
| ⊞ | - | DUCT RISE |
| ⊞ | - | DUCT DROP |
| ⊞ | - | DUCT TRANSITION |
| ⊞ | - | ALUMINUM DUCT |
| ⊞ | AL | ACOUSTIC LINING |
| ⊞ | FD/AD | FIRE DAMPER W/ ACCESS DOOR |
| ⊞ | SD/AD | SMOKE DAMPER W/ ACCESS DOOR |

SYMBOL

| SYMBOL | ABBREVIATION | DESCRIPTION |
|--------|--------------|--|
| ⊞ | SD/AD | SMOKE DAMPER W/ ACCESS DOOR |
| ⊞ | CFSD | COMBINATION FIRE/SMOKE DAMPER W/ ACCESS DOOR |
| ⊞ | VD | VOLUME DAMPER |
| ⊞ | AL | ACOUSTIC LINING |
| ⊞ | - | DUCT SIZE - 1ST FIGURE IS SIDE SHOWN |
| ⊞ | FC | FLEXIBLE CONNECTION |
| ⊞ | - | ALUMINUM DUCT |
| ⊞ | - | EXHAUST REGISTER |
| ⊞ | - | NEW CEILING DIFFUSER |

COMMISSIONING NOTES

- REFER TO SPECIFICATION SECTION 230800. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A 3RD PARTY COMMISSIONING AGENT.
- PRIOR TO COMMISSIONING, THE CONTRACTOR SHALL PROVIDE A STATEMENT CONFIRMING THAT ALL SYSTEMS ARE FULLY OPERATIONAL AND ALL PRE-FUNCTIONAL TESTS AND CHECKS LISTED BELOW HAVE BEEN SUCCESSFULLY COMPLETED. SUBMIT A COPY OF ALL CHECK SHEETS FOR ENGINEER REVIEW AND APPROVAL.
- PRE-FUNCTIONAL TESTS AND CHECKS (PREREQUISITES FOR COMMISSIONING):
 THE CONTRACTOR SHALL PERFORM THE FOLLOWING AT A MINIMUM -
 - ENSURE THAT ALL SUBMITTALS ARE COMPLETED AND APPROVED BY ENGINEER AND COMMISSIONING AGENT.
 - CERTIFY THAT ALL SYSTEMS TO BE COMMISSIONED, SUBSYSTEMS AND EQUIPMENT HAVE BEEN INSTALLED, CALIBRATED AND STARTED, ACCORDING TO THE CONTRACT DOCUMENTS COMPLETE. ALL MANUFACTURER STARTUP REQUIREMENTS.
 - CERTIFY THAT ALL RELEVANT INSTRUMENTATION AND CONTROL SYSTEMS HAVE BEEN COMPLETED AND CALIBRATED; ARE OPERATING ACCORDING TO CONTRACT DOCUMENTS; AND THAT PRETEST SET POINTS HAVE BEEN RECORDED.
 - CERTIFY THAT TESTING, ADJUSTING AND BALANCING (TAB) PROCEDURES HAVE BEEN COMPLETED AND THE TAB REPORT HAS BEEN SUBMITTED, DISCREPANCIES CORRECTED AND CORRECTIVE WORK APPROVED BY THE ENGINEER.
 - SET SYSTEMS, SUBSYSTEMS AND EQUIPMENT TO OPERATING MODE TO BE TESTED (E.G., NORMAL SHUT DOWN, NORMAL AUTO POSITION, NORMAL MANUAL POSITION, AND ALARM CONDITIONS).
 - VERIFY EACH OF THE SYSTEMS ONCE IT IS OPERATING IN A STEADY STATE CONDITION. REFER TO THE SEQUENCE OF OPERATIONS.
 - INSPECT AND VERIFY THE POSITION OF EACH DEVICE AND INTERLOCK IDENTIFIED ON CHECKLISTS. SIGN OFF EACH ITEM AS ACCEPTABLE OR FAILED. REPEAT THIS TEST FOR EACH OPERATING CYCLE THAT APPLIES TO SYSTEM BEING TESTED.
 - SIMULATE CONDITIONS REQUIRED IN ORDER TO TEST ALL SAFETY CUTOUPS, ALARMS AND INTERLOCKS WITH LIFE SAFETY SYSTEMS DURING EACH MODE OF OPERATION WHEN APPLICABLE.
 - ANNOTATE CHECKLIST OR DATA SHEET WHEN A DEFICIENCY IS OBSERVED.
 - VERIFY EQUIPMENT INTERFACE WITH MONITORING AND CONTROL SYSTEM.
- AFTER PRE-FUNCTIONAL TESTING IS COMPLETE, THE CONTRACTOR SHALL PERFORM FUNCTIONAL TESTING IN THE PRESENCE OF THE COMMISSIONING AGENT FOR THE SYSTEMS LISTED BELOW IN ACCORDANCE WITH THE COMMISSIONING SPECIFICATIONS:
 - ROOFTOP UNITS
 - DOAS UNITS
 - CONDENSING UNITS
 - VRF SYSTEMS
 - PUMPS
 - AIR HANDLERS
 - CONTROL DAMPERS AND CONTROL VALVES
 - AUTOMATIC CONTROLS
- AFTER FUNCTIONAL TESTING, THE COMMISSIONING AGENT (CX) SHALL ISSUE A REPORT OF TEST RESULTS AND DOCUMENT ANY DEFICIENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ALL DEFICIENCIES. THE CONTRACTOR SHALL SEND A WRITTEN RESPONSE TO THE OWNER/ENGINEER/CX AGENT THAT AN OPEN ISSUE HAS BEEN RECTIFIED. THE DEFICIENCY SHALL NOT BE CONSIDERED RESOLVED UNTIL THE APPROPRIATE RETESTING IS PERFORMED WITH THE CX AGENT.
- PRIOR TO TURNOVER (OWNER ACCEPTANCE), A COMPLETE AND SUCCESSFUL DEMONSTRATION OF ALL SYSTEM OPERATING FUNCTIONS AND ALARMS SHALL BE PERFORMED BY THIS CONTRACTOR IN THE PRESENCE OF THE OWNERS REPRESENTATIVE AND COMMISSIONING AGENT.
- IN ADDITION TO THE ABOVE, THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:
 - PARTICIPATE IN MAINTENANCE ORIENTATION AND INSPECTION MEETING.
 - PARTICIPATE IN PROCEDURES MEETING FOR TESTING.
 - EXECUTE INSTALLATION PRE-FUNCTIONAL CHECK SHEETS.
 - SUPPORT FUNCTIONAL TESTING WITH QUALIFIED TECHNICIANS.
 - RESPOND TO CX DEFICIENCIES IN ACCORDANCE WITH OWNER SCHEDULE.
 - PARTICIPATE IN FINAL REVIEW AT ACCEPTANCE MEETING.
 - NOTIFY COMMISSIONING AGENT AT MINIMUM TWO WEEKS IN ADVANCE OF ANY TESTING.

GENERAL NOTES

- CONTRACT DRAWINGS, AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, SHEET METAL, AND PIPING, SHALL BE UNDERSTOOD AS DIAGRAMMATIC. ANY CHANGES TO EQUIPMENT, SHEET METAL, AND PIPING LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST, AND MUST BE APPROVED BY THE ENGINEER.
- THE MECHANICAL CONTRACTOR SHALL INSTALL FIRE DAMPERS WITH ACCESS DOORS IN ALL DUCTS PENETRATING FIRE RATED WALLS, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL VOLUME DAMPERS IN DUCTWORK AS REQUIRED TO BALANCE THE AIRFLOW AT ALL REGISTERS AND DIFFUSERS TO THE CFM'S INDICATED ON PLAN, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- ACOUSTICALLY LINE ALL TRANSFER DUCTS. ACOUSTIC LINING SHALL BE 1" THICK. PROVIDE RETURN REGISTERS AT TRANSFER DUCT INLETS & OUTLETS LOCATED BELOW THE CEILING, OR IN AREAS WITH NO CEILING.
- DUCT-MOUNTED SMOKE DETECTORS AND SAMPLING TUBES SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL INSTALL EACH SAMPLING TUBE IN THE DUCTWORK. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE EACH SMOKE DETECTOR. THE MECHANICAL CONTRACTOR SHALL NOT BRANCH OFF ANY DUCT REQUIRING A DUCT SMOKE DETECTOR BEFORE THE DUCT SMOKE DETECTOR. LOCATE SMOKE DETECTORS IN SERVICEABLE AREAS, NOT IN SHAFTS.
- ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE MECHANICAL CONTRACTOR FOR HVAC EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK, AND SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- DUCT DIMENSIONS SHOWN ON MECHANICAL DRAWINGS REFER TO INSIDE CLEAR DUCT DIMENSIONS. WHERE DUCTWORK IS LINED, THE MECHANICAL CONTRACTOR SHALL INCREASE THE SIZE OF DUCT TO COMPENSATE FOR LINING.
- LOCATE THERMOSTATS AND TEMPERATURE SENSORS 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH FURNITURE, CABINETS, ETC. FURNISH LOCKING TAMPERPROOF COVER FOR ALL NEW THERMOSTATS IN PUBLIC AREAS. THERMOSTATS SHALL BE LOCATED IN AN ACCESSIBLE LOCATION.
- COORDINATE DUCTWORK, GRILLE, DIFFUSER AND REGISTER LOCATIONS WITH LIGHTS, SPRINKLER HEADS, SMOKE DETECTORS, AND THE ARCHITECTURAL PLANS.
- THE MECHANICAL CONTRACTOR SHALL NOTE THAT, IN ADDITION TO THE SPECIFICATIONS AND DETAILS GIVEN IN THESE PLANS FOR PIPE HANGERS AND SUPPORTS, ALL HANGERS AND SUPPORTS SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH APPLICABLE SEISMIC CODES.
- THE MECHANICAL CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING DUCTWORK, PLUMBING, SPRINKLER PIPING, STRUCTURAL, LIGHTS, CONDUITS, SMOKE DETECTORS, DIFFUSERS, GRILLES, ETC.
- ALL WORK SHALL COMPLY WITH STATE BUILDING CODE, LOCAL BUILDING CODE, AND ENERGY CODE REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- DURING CONSTRUCTION, ALL OPEN OR INCOMPLETE DUCTWORK SHALL BE CAPPED AIRTIGHT WITH HEAVY POLYETHYLENE PLASTIC. AFTER THE INSTALLATION OF DUCTWORK, REGISTERS, GRILLES, AND DIFFUSERS, THE CONTRACTOR SHALL BLANK OFF ALL REGISTERS, GRILLES, AND DIFFUSERS WITH HEAVY POLYETHYLENE PLASTIC AND TAPE AIR TIGHT, IN AREAS THAT ARE UNDER CONSTRUCTION, UNTIL WORK IS COMPLETE IN THOSE AREAS. FLOOR REGISTERS AND GRILLES SHALL ALSO BE COVERED WITH 1/8" MASONITE.
- WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT IN THE PROJECT AREA OR SERVING THE PROJECT AREA. REMOVE ANY CONSTRUCTION DEBRIS. REPLACE ALL AIR FILTERS WITH NEW.
- THE OWNER'S PERMANENT HVAC EQUIPMENT SHALL NOT BE USED BY ANY CONTRACTOR DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, OR VENTILATION. IF TEMPORARY HEATING, COOLING, OR VENTILATION IS REQUIRED AT ANY POINT DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING, COOLING, OR VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, AND POWER AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.
- WHERE BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF MECHANICAL WORK, INCLUDING THE INSTALLATION OF HANGERS FOR PIPING, DUCTWORK, OR EQUIPMENT, SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- ALL DUCTWORK SHALL BE PRESSURE TESTED AND INSPECTED PRIOR TO CONCEALMENT IN GENERAL CONSTRUCTION OR INSTALLATION OF HUNG CEILINGS.
- ALL DUCTWORK SHALL BE PRESSURE TESTED AND INSPECTED PRIOR TO CONCEALMENT IN GENERAL CONSTRUCTION OR INSTALLATION OF HUNG CEILINGS.
- ALL DUCTWORK SHALL CONNECT TO EQUIPMENT WITH FLEXIBLE CONNECTIONS.
- CONTRACTOR TO VERIFY ALL REFRIGERANT PIPE ROUTING AND SIZING WITH MANUFACTURER FOR AC, AH, AND VRF UNIT SYSTEMS. IF MAXIMUM LENGTH OF PIPE (AS DETERMINED BY MANUFACTURER) DOES NOT ALLOW ROUTING AS SHOWN, CONTRACTOR TO ALERT THE ARCHITECT AND ENGINEER SO THAT AN ALTERNATIVE MAY BE PROPOSED.
- BUILDING LOADS HAVE BEEN CALCULATED USING AN APPROVED COMPUTATIONAL PROGRAM.

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

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| 4 | 06/05/2024 | ISSUED FOR BID |
| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

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MECHANICAL SYMBOLS, ABBREVIATIONS, & NOTES

Job No. NKGD0207.00 Date 03/01/2024

Scale AS NOTED Drawn / Checked HM / RG

Sheet Number

M-001

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2
Town / Village of Harrison
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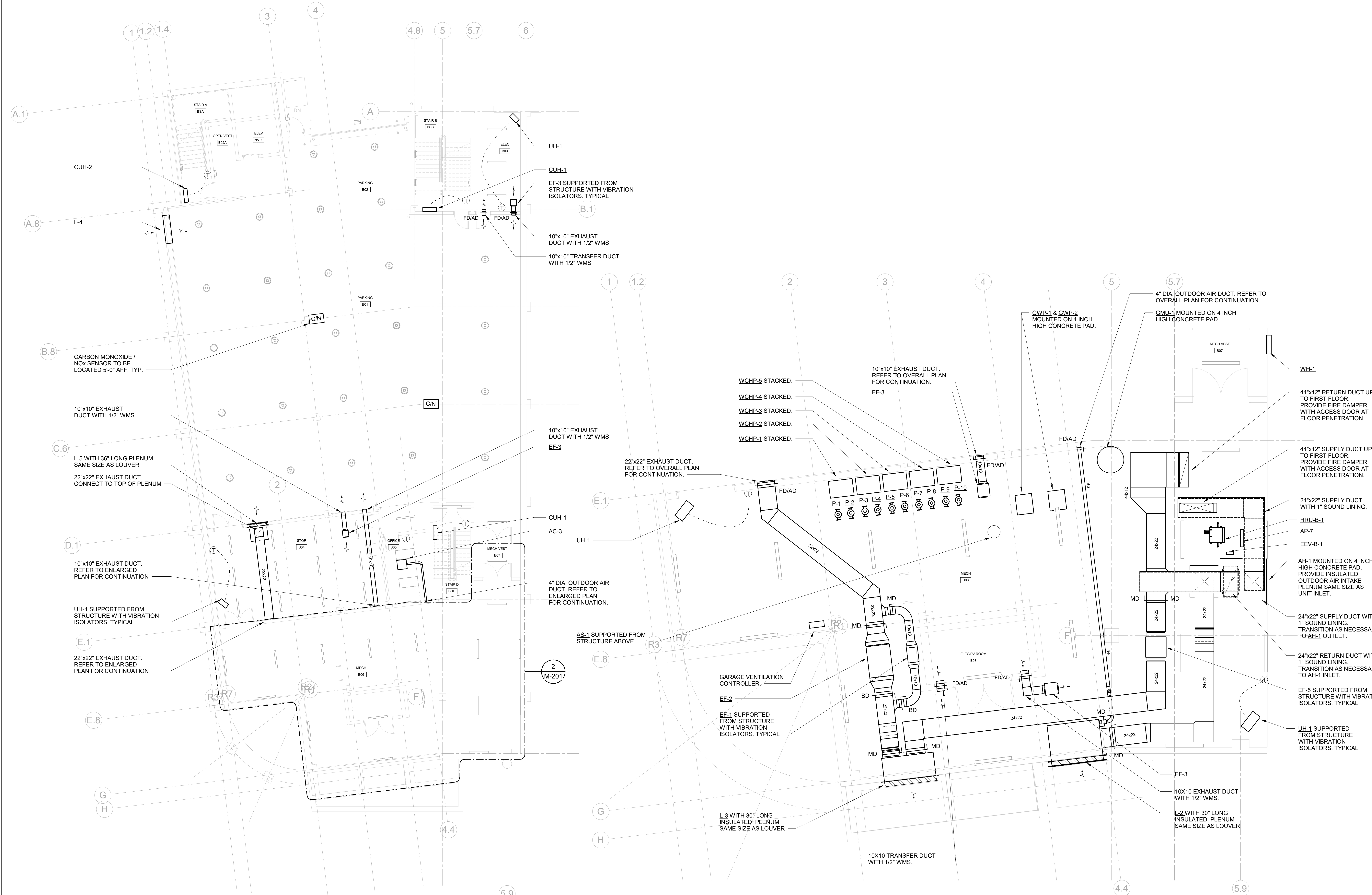
Key Plan

| No. | Date | Issue |
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| 4 | 06/05/2024 | ISSUED FOR BID |
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**MECHANICAL
PARKING FLOOR
PLAN**

Job No. NKGD0207.00 Date 02/16/2024
Scale AS NOTED Drawn / Checked HM / RG
Sheet Number
M-201



1 MECHANICAL PARKING FLOOR PLAN
SCALE: 1/8" = 1'-0"
NOTES:
1. ALL WALL MOUNTED GRILLES SHALL BE MOUNTED ONE CMU BLOCK ABOVE DOOR. CONTRACTOR SHALL COORDINATE LOCATION WITH FINAL CMU BLOCK LAYOUT.

2 MECH B06 ENLARGED PLAN
SCALE: 1/4" = 1'-0"
NOTES:
1. ROUTE ALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE

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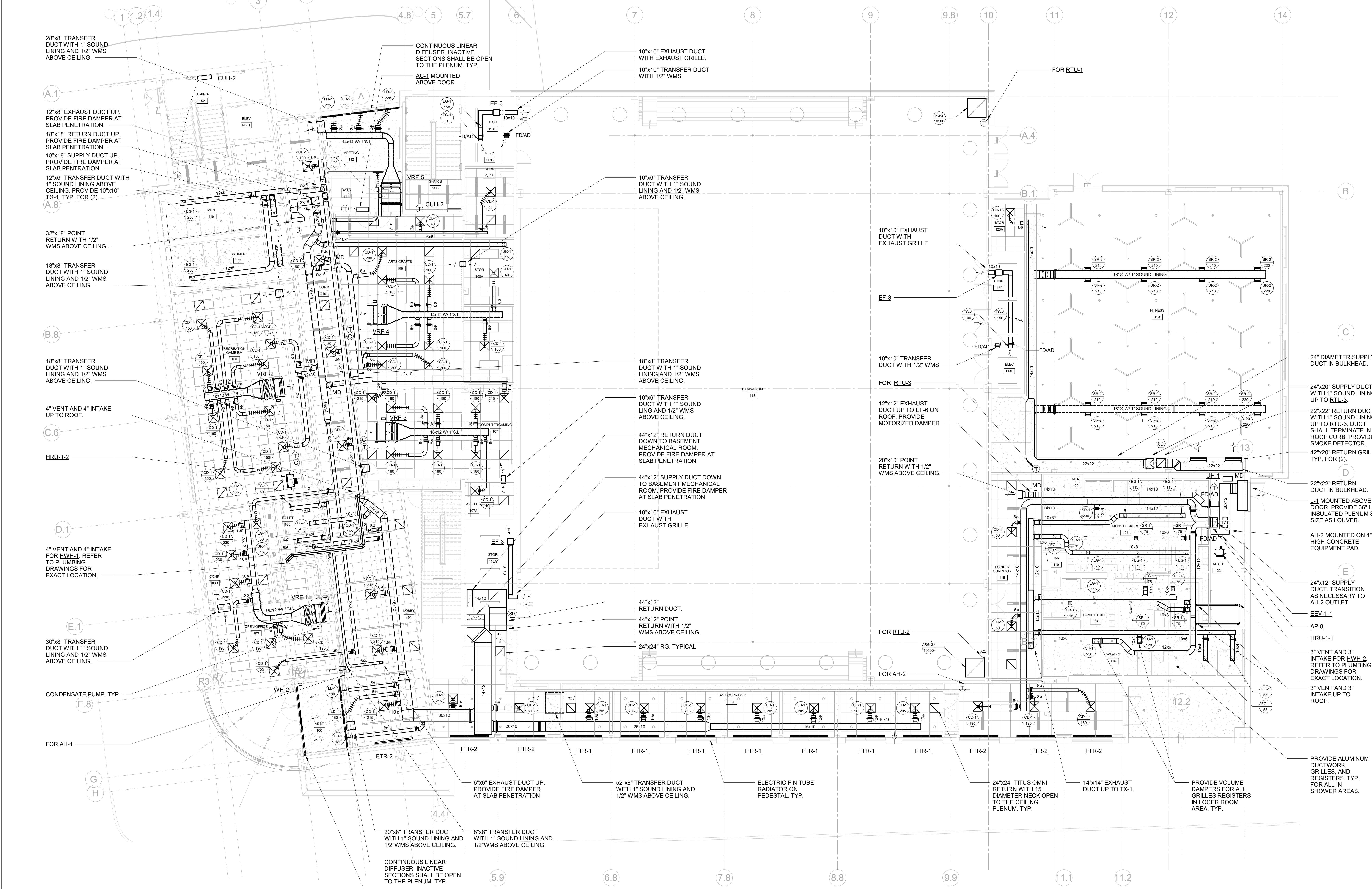
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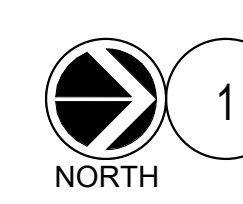
MECHANICAL FIRST FLOOR PLAN

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| Job No. | NKGD0207.00 | Date | 02/16/2024 |
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| Sheet Number | M-202 | | |



MECHANICAL FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"
NOTES:
1. DUCTED VRF INDOOR UNITS: PROVIDE 24" DEEP, ACOUSTICALLY LINED, FULL SIZED RETURN AIR DUCT AT RETURN AIR CONNECTION WITH FILTER BANK AND VOLUME OR MOTORIZED DAMPER WHERE CALLED OUT.
2. PROVIDE 'YOUNG' REGULATOR VOLUME DAMPERS IN ALL HARD CEILING AREAS FOR BALANCING PURPOSES.
3. ALL VRF UNITS SHALL BE HUNG FROM STRUCTURE ABOVE. PROVIDE VIBRATION ISOLATORS.
4. ALL WALL MOUNTED GRILLES SHALL BE MOUNTED ONE CMU BLOCK ABOVE DOOR. CONTRACTOR SHALL COORDINATE LOCATION WITH FINAL CMU BLOCK LAYOUT.



28"x8" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

12"x8" EXHAUST DUCT UP. PROVIDE FIRE DAMPER AT SLAB PENETRATION.
18"x18" RETURN DUCT UP. PROVIDE FIRE DAMPER AT SLAB PENETRATION.
18"x18" SUPPLY DUCT UP. PROVIDE FIRE DAMPER AT SLAB PENETRATION.
12"x6" TRANSFER DUCT WITH 1" SOUND LINING ABOVE CEILING. PROVIDE 10"x10" TG-1. TYP. FOR (2).

32"x18" POINT RETURN WITH 1/2" WMS ABOVE CEILING.

18"x8" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

18"x8" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

4" VENT AND 4" INTAKE UP TO ROOF.

HRU-1-2

4" VENT AND 4" INTAKE FOR HWH-1. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.

30"x8" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

CONDENSATE PUMP. TYP.

FOR AH-1

CONTINUOUS LINEAR DIFFUSER. INACTIVE SECTIONS SHALL BE OPEN TO THE PLENUM. TYP.
AC-1 MOUNTED ABOVE DOOR.

10"x10" EXHAUST DUCT WITH EXHAUST GRILLE.
10"x10" TRANSFER DUCT WITH 1/2" WMS

10"x6" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

18"x8" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

10"x6" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

44"x12" RETURN DUCT DOWN TO BASEMENT MECHANICAL ROOM. PROVIDE FIRE DAMPER AT SLAB PENETRATION

44"x12" SUPPLY DUCT DOWN TO BASEMENT MECHANICAL ROOM. PROVIDE FIRE DAMPER AT SLAB PENETRATION

10"x10" EXHAUST DUCT WITH EXHAUST GRILLE.

44"x12" RETURN DUCT.
44"x12" POINT RETURN WITH 1/2" WMS ABOVE CEILING.

24"x24" RG. TYPICAL

6"x6" EXHAUST DUCT UP. PROVIDE FIRE DAMPER AT SLAB PENETRATION

52"x8" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

ELECTRIC FIN TUBE RADIATOR ON PEDESTAL. TYP.

24"x24" TITUS OMNI RETURN WITH 15" DIAMETER NECK OPEN TO THE CEILING PLENUM. TYP.

14"x14" EXHAUST DUCT UP TO TX-1.

PROVIDE VOLUME DAMPERS FOR ALL GRILLES/REGISTERS IN LOCKER ROOM AREA. TYP.

PROVIDE ALUMINUM DUCTWORK, GRILLES, AND REGISTERS. TYP. FOR ALL IN SHOWER AREAS.

CONTINUOUS LINEAR DIFFUSER. INACTIVE SECTIONS SHALL BE OPEN TO THE PLENUM. TYP.
PROVIDE CONTINUOUS LINEAR RETURN WITH ONE (1) 1.5" SLOT. RETURN SHALL BE OPEN TO THE CEILING. TITUS FL-15. TYPICAL

FOR RTU-1

FOR RTU-3

FOR RTU-2

FOR AH-2

24" DIAMETER SUPPLY DUCT IN BULKHEAD.

24"x20" SUPPLY DUCT WITH 1" SOUND LINING UP TO RTU-3.

22"x22" RETURN DUCT WITH 1" SOUND LINING UP TO RTU-3. DUCT SHALL TERMINATE IN ROOF CURB. PROVIDE SMOKE DETECTOR.

42"x20" RETURN GRILLE. TYP. FOR (2).

22"x22" RETURN DUCT IN BULKHEAD.

L-1 MOUNTED ABOVE DOOR. PROVIDE 36" LONG INSULATED PLENUM SAME SIZE AS LOUVER.

AH-2 MOUNTED ON 4" HIGH CONCRETE EQUIPMENT PAD.

24"x12" SUPPLY DUCT TRANSITION AS NECESSARY TO AH-2 OUTLET.

EEV-1-1

AP-8

HRU-1-1

3" VENT AND 3" INTAKE FOR HWH-2 REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.

3" VENT AND 3" INTAKE UP TO ROOF.

10"x10" EXHAUST DUCT WITH EXHAUST GRILLE.

10"x10" TRANSFER DUCT WITH 1/2" WMS

12"x12" EXHAUST DUCT UP TO EF-6 ON ROOF. PROVIDE MOTORIZED DAMPER.

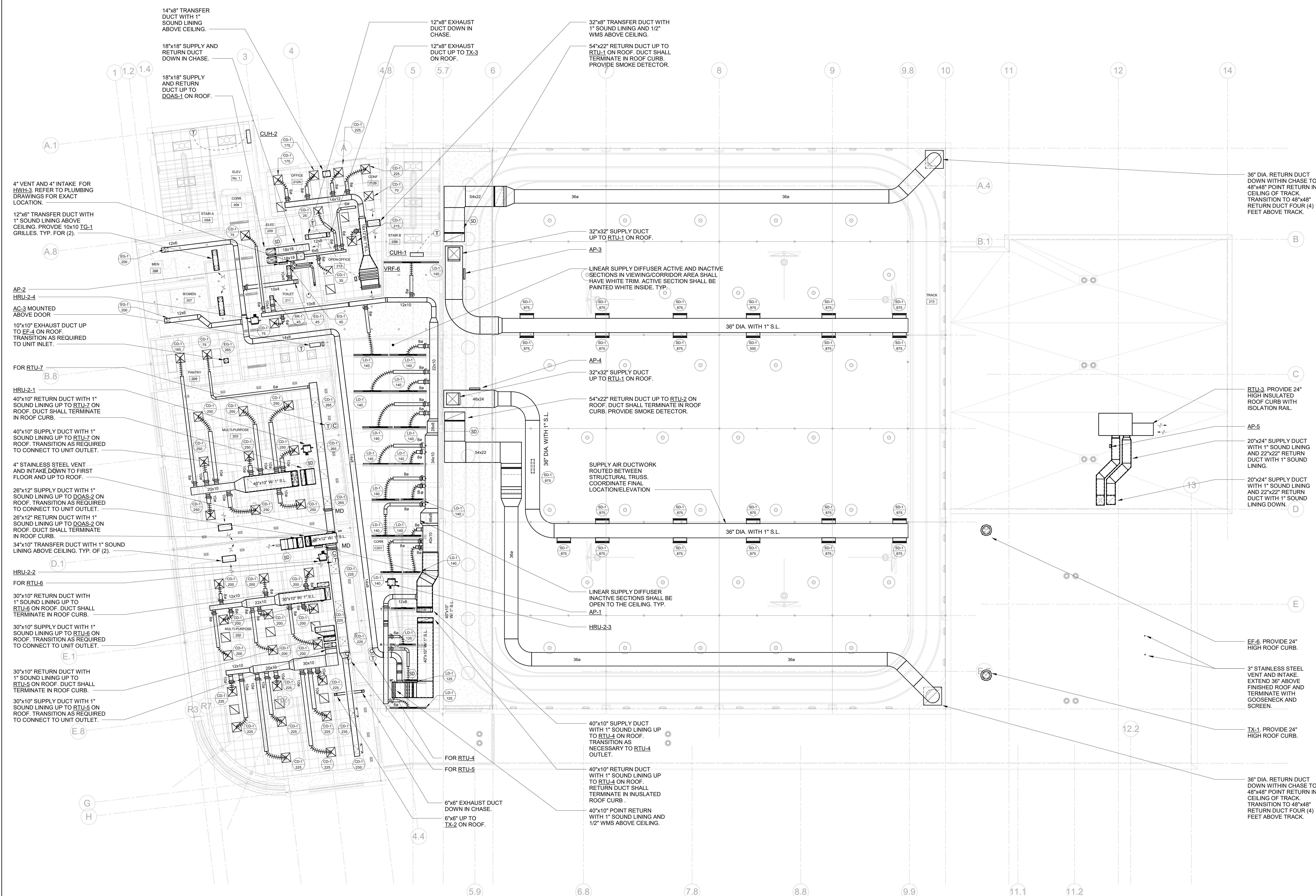
20"x10" POINT RETURN WITH 1/2" WMS ABOVE CEILING.

24"x24" TITUS OMNI RETURN WITH 15" DIAMETER NECK OPEN TO THE CEILING PLENUM. TYP.

14"x14" EXHAUST DUCT UP TO TX-1.

PROVIDE VOLUME DAMPERS FOR ALL GRILLES/REGISTERS IN LOCKER ROOM AREA. TYP.

PROVIDE ALUMINUM DUCTWORK, GRILLES, AND REGISTERS. TYP. FOR ALL IN SHOWER AREAS.



14"x8" TRANSFER DUCT WITH 1" SOUND LINING ABOVE CEILING.
18"x18" SUPPLY AND RETURN DUCT UP TO DOAS-1 ON ROOF.
18"x18" SUPPLY AND RETURN DUCT UP TO DOAS-1 ON ROOF.

12"x8" EXHAUST DUCT DOWN IN CHASE.
12"x8" EXHAUST DUCT UP TO TX-3 ON ROOF.

32"x8" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.
54"x22" RETURN DUCT UP TO RTU-1 ON ROOF. DUCT SHALL TERMINATE IN ROOF CURB. PROVIDE SMOKE DETECTOR.

36" DIA. RETURN DUCT DOWN WITHIN CHASE TO 48"x48" POINT RETURN IN CEILING OF TRACK. TRANSITION TO 45"x48" RETURN DUCT FOUR (4) FEET ABOVE TRACK.

4" VENT AND 4" INTAKE FOR HHH-3. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.

12"x6" TRANSFER DUCT WITH 1" SOUND LINING ABOVE CEILING. PROVIDE 10x10 IG-1 GRILLES. TYP. FOR (2).

AP-2
HRU-2.4
AC-3 MOUNTED ABOVE DOOR

10"x10" EXHAUST DUCT UP TO EF-4 ON ROOF. TRANSITION AS REQUIRED TO UNIT INLET.

FOR RTU-7

HRU-2.1

40"x10" RETURN DUCT WITH 1" SOUND LINING UP TO RTU-7 ON ROOF. DUCT SHALL TERMINATE IN ROOF CURB.

40"x10" SUPPLY DUCT WITH 1" SOUND LINING UP TO RTU-7 ON ROOF. TRANSITION AS REQUIRED TO CONNECT TO UNIT OUTLET.

4" STAINLESS STEEL VENT AND INTAKE DOWN TO FIRST FLOOR AND UP TO ROOF.

26"x12" SUPPLY DUCT WITH 1" SOUND LINING UP TO DOAS-2 ON ROOF. TRANSITION AS REQUIRED TO CONNECT TO UNIT OUTLET.

26"x12" RETURN DUCT WITH 1" SOUND LINING UP TO DOAS-2 ON ROOF. DUCT SHALL TERMINATE IN ROOF CURB.

34"x10" TRANSFER DUCT WITH 1" SOUND LINING ABOVE CEILING. TYP. OF (2).

HRU-2.2
FOR RTU-6

30"x10" RETURN DUCT WITH 1" SOUND LINING UP TO RTU-6 ON ROOF. DUCT SHALL TERMINATE IN ROOF CURB.

30"x10" SUPPLY DUCT WITH 1" SOUND LINING UP TO RTU-6 ON ROOF. TRANSITION AS REQUIRED TO CONNECT TO UNIT OUTLET.

30"x10" RETURN DUCT WITH 1" SOUND LINING UP TO RTU-5 ON ROOF. DUCT SHALL TERMINATE IN ROOF CURB.

30"x10" SUPPLY DUCT WITH 1" SOUND LINING UP TO RTU-5 ON ROOF. TRANSITION AS REQUIRED TO CONNECT TO UNIT OUTLET.

G
H

6"x6" EXHAUST DUCT DOWN IN CHASE.
6"x6" UP TO TX-2 ON ROOF.

40"x10" SUPPLY DUCT WITH 1" SOUND LINING UP TO RTU-4 ON ROOF. TRANSITION AS NECESSARY TO RTU-4 OUTLET.

40"x10" RETURN DUCT WITH 1" SOUND LINING UP TO RTU-4 ON ROOF. RETURN DUCT SHALL TERMINATE IN INSULATED ROOF CURB.

40"x10" POINT RETURN WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

54"x22" RETURN DUCT UP TO RTU-2 ON ROOF. DUCT SHALL TERMINATE IN ROOF CURB. PROVIDE SMOKE DETECTOR.

HRU-2.3
LINEAR SUPPLY DIFFUSER INACTIVE SECTIONS SHALL BE OPEN TO THE CEILING. TYP.

32"x32" SUPPLY DUCT UP TO RTU-1 ON ROOF.

LINEAR SUPPLY DIFFUSER ACTIVE AND INACTIVE SECTIONS IN VIEWING/CORRIDOR AREA SHALL HAVE WHITE TRIM. ACTIVE SECTION SHALL BE PAINTED WHITE INSIDE. TYP.

AP-4
32"x32" SUPPLY DUCT UP TO RTU-1 ON ROOF.

36" DIA. WITH 1" S.L.

SUPPLY AIR DUCTWORK ROUTED BETWEEN STRUCTURAL TRUSS. COORDINATE FINAL LOCATION/ELEVATION

HRU-2.3
LINEAR SUPPLY DIFFUSER INACTIVE SECTIONS SHALL BE OPEN TO THE CEILING. TYP.

40"x10" SUPPLY DUCT WITH 1" SOUND LINING UP TO RTU-4 ON ROOF. TRANSITION AS NECESSARY TO RTU-4 OUTLET.

40"x10" RETURN DUCT WITH 1" SOUND LINING UP TO RTU-4 ON ROOF. RETURN DUCT SHALL TERMINATE IN INSULATED ROOF CURB.

40"x10" POINT RETURN WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

RTU-3. PROVIDE 24" HIGH INSULATED ROOF CURB WITH ISOLATION RAIL.

AP-5
20"x24" SUPPLY DUCT WITH 1" SOUND LINING AND 22"x22" RETURN DUCT WITH 1" SOUND LINING.

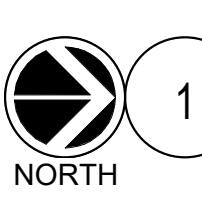
20"x24" SUPPLY DUCT WITH 1" SOUND LINING AND 22"x22" RETURN DUCT WITH 1" SOUND LINING DOWN.

EF-6. PROVIDE 24" HIGH ROOF CURB.

3" STAINLESS STEEL VENT AND INTAKE. EXTEND 36" ABOVE FINISHED ROOF AND TERMINATE WITH COOSENECK AND SCREEN.

TX-1. PROVIDE 24" HIGH ROOF CURB.

36" DIA. RETURN DUCT DOWN WITHIN CHASE TO 48"x48" POINT RETURN IN CEILING OF TRACK. TRANSITION TO 45"x48" RETURN DUCT FOUR (4) FEET ABOVE TRACK.



MECHANICAL SECOND FLOOR PLAN

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

NOTES:

1. DUCTED VRF INDOOR UNITS. PROVIDE 24" DEEP, ACOUSTICALLY LINED, FULL SCALE RETURN AIR DUCT AT RETURN AIR CONNECTION WITH FILTER BANK AND VOLUME OR MOTORIZED DAMPER WHERE CALLED OUT.
2. PROVIDE 'YOUNG' REGULATOR VOLUME DAMPERS IN ALL HARD CEILING AREAS FOR BALANCING PURPOSES.
3. ALL VRF UNITS SHALL BE HUNG FROM STRUCTURE ABOVE. PROVIDE VIBRATION ISOLATORS

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MECHANICAL SECOND FLOOR PLAN

Job No. NKG0207.00 Date 02/16/2024

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M-203

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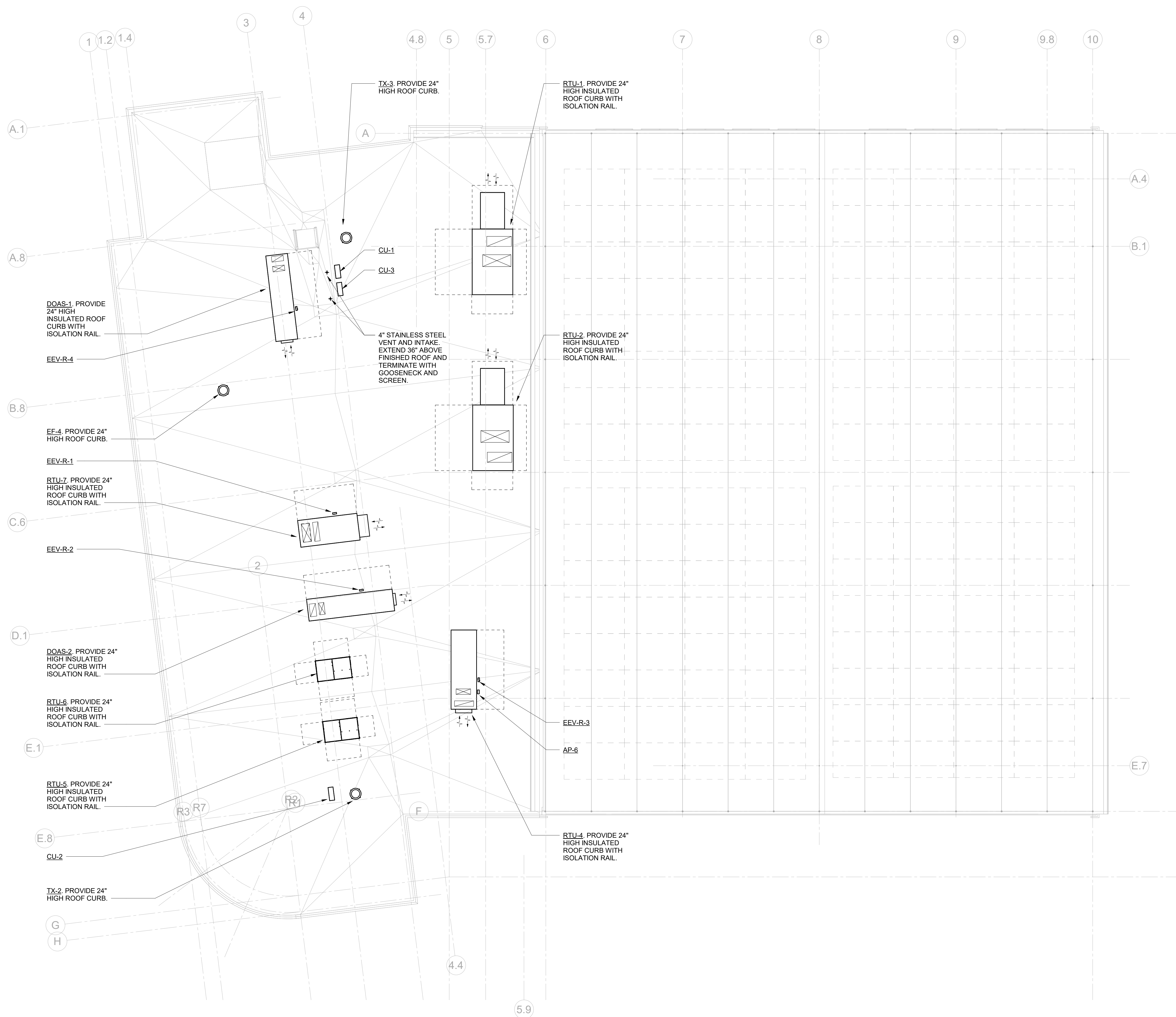
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**MECHANICAL
ROOF PLAN**

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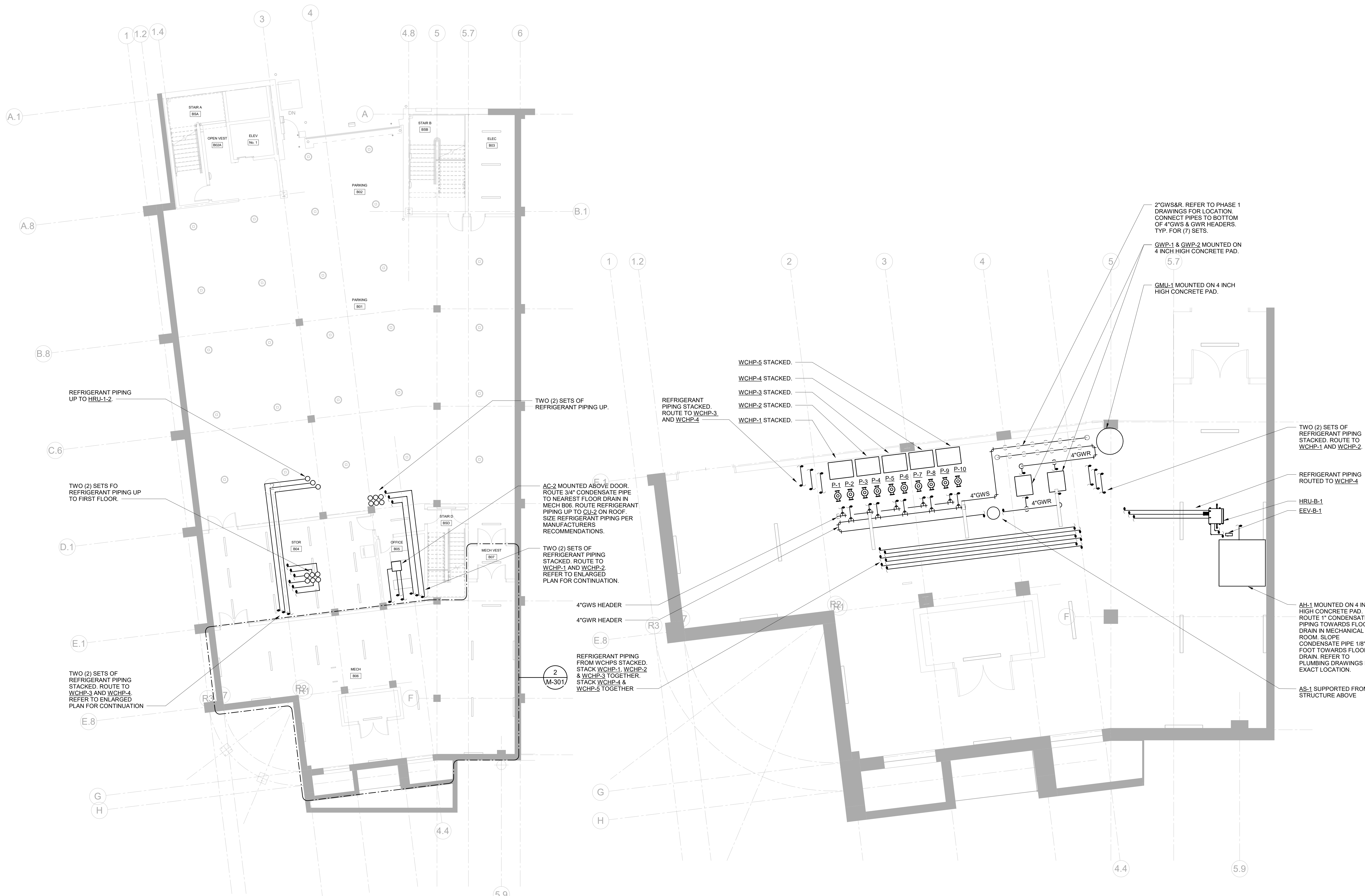
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M-204



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





1 MECHANICAL PARKING FLOOR PIPING PLAN
SCALE: 1/8" = 1'-0"
NOTES:
1. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

2 MECH B06 ENLARGED PIPING PLAN
SCALE: 1/4" = 1'-0"
NOTES:
1. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

Key Plan

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**MECHANICAL
PARKING PIPING
PLAN**

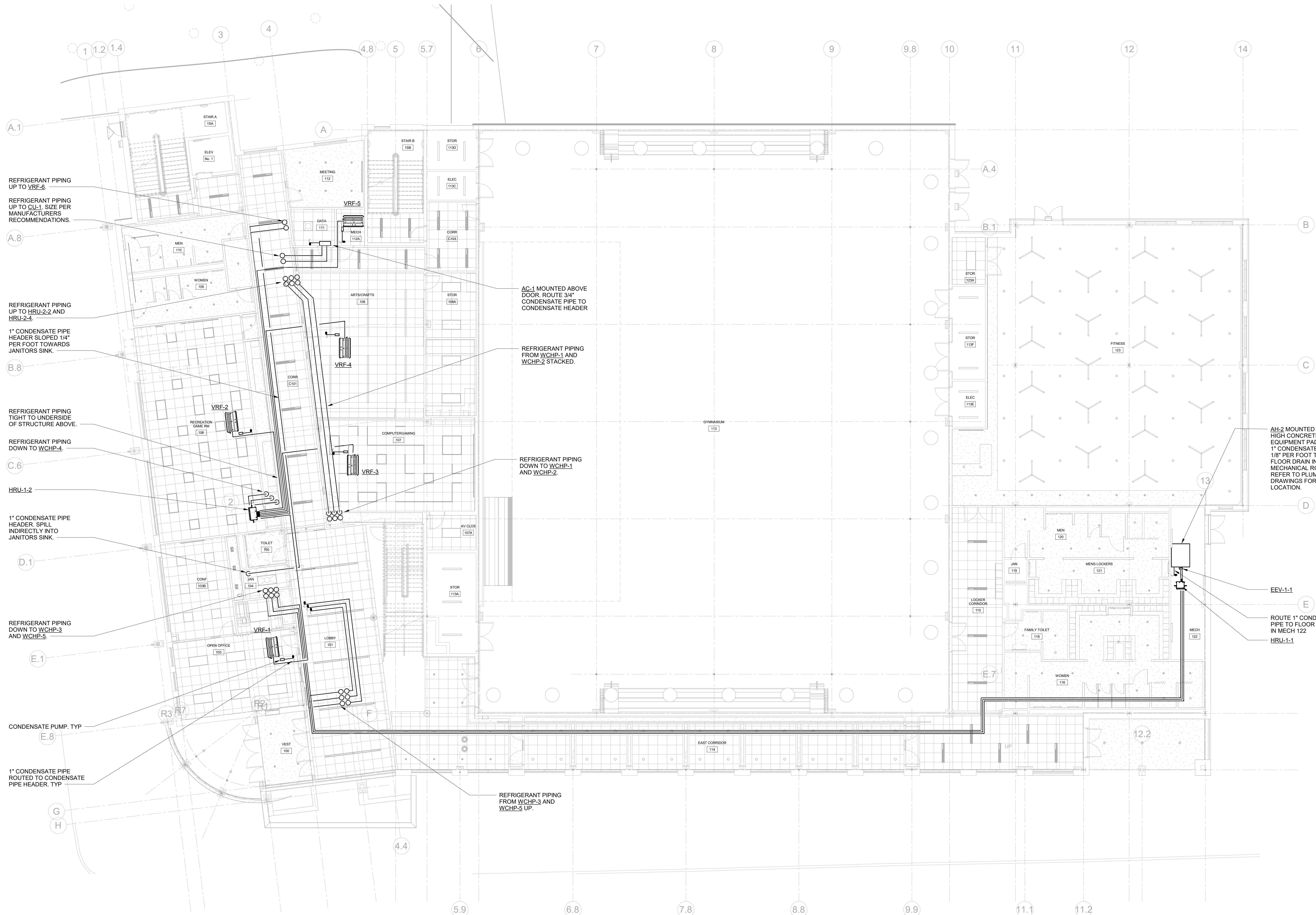
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**MECHANICAL
FIRST FLOOR
PIPING PLAN**

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MECHANICAL FIRST FLOOR PIPING PLAN

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

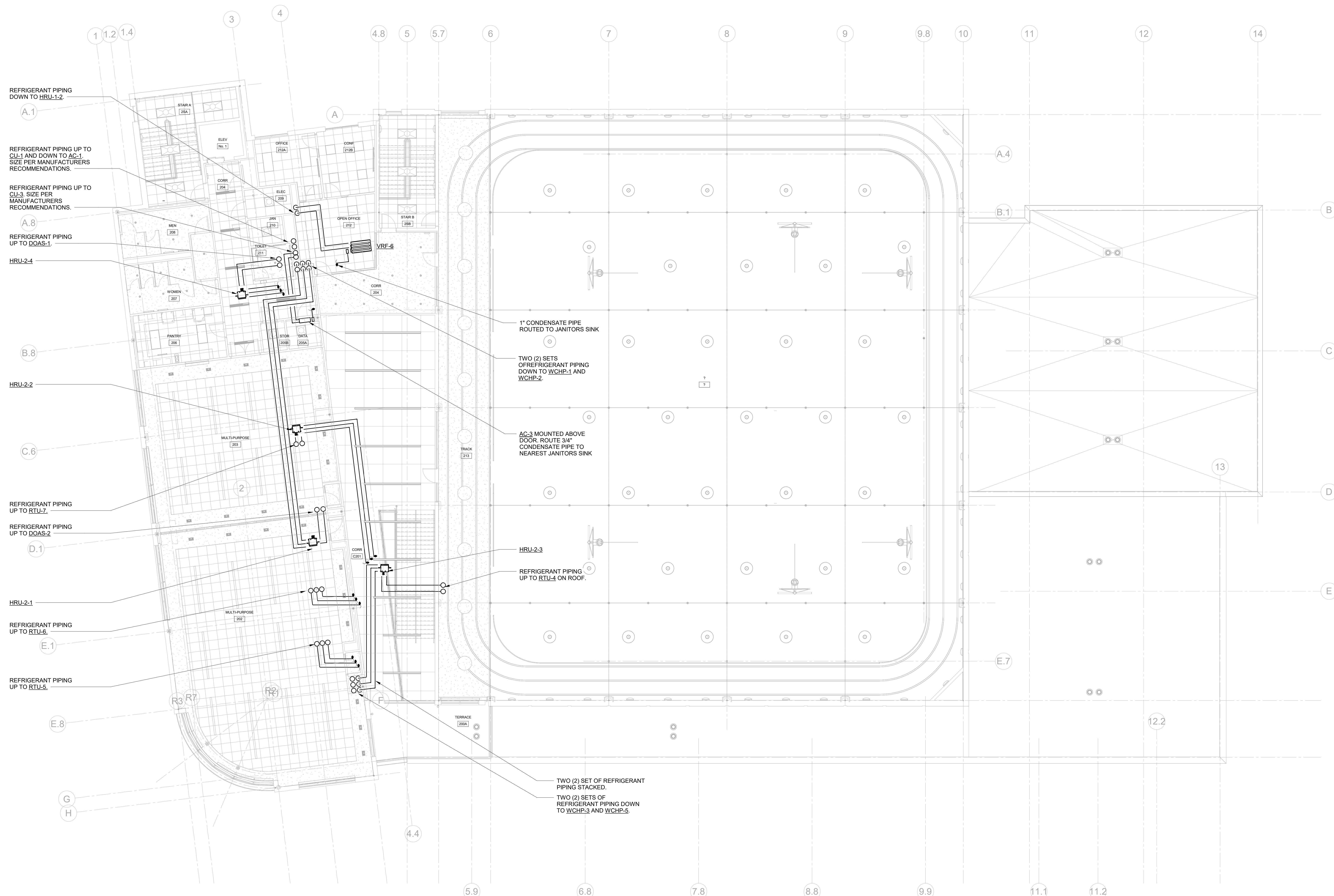
- NOTES:
1. PROVIDE CONDENSATE PUMP FOR ALL VRF INDOOR DUCTED UNIT. ROUTE 1" CONDENSATE TO CONDENSATE HEADER SHOWN ON PLANS AND PROVIDE WYE FITTING AT CONNECTION POINT.
 2. REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
 3. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

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**MECHANICAL
SECOND FLOOR
PIPING PLAN**

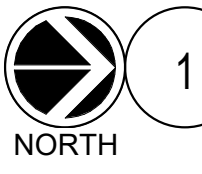
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M-303



MECHANICAL SECOND FLOOR PIPING PLAN

- SCALE: 1/8" = 1'-0"
- NOTES:
1. PROVIDE CONDENSATE PUMP FOR ALL VRF INDOOR DUCTED UNIT. ROUTE 1" CONDENSATE TO CONDENSATE HEADER SHOWN ON PLANS AND PROVIDE WYE FITTING AT CONNECTION POINT.
 2. REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
 3. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.



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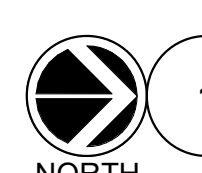
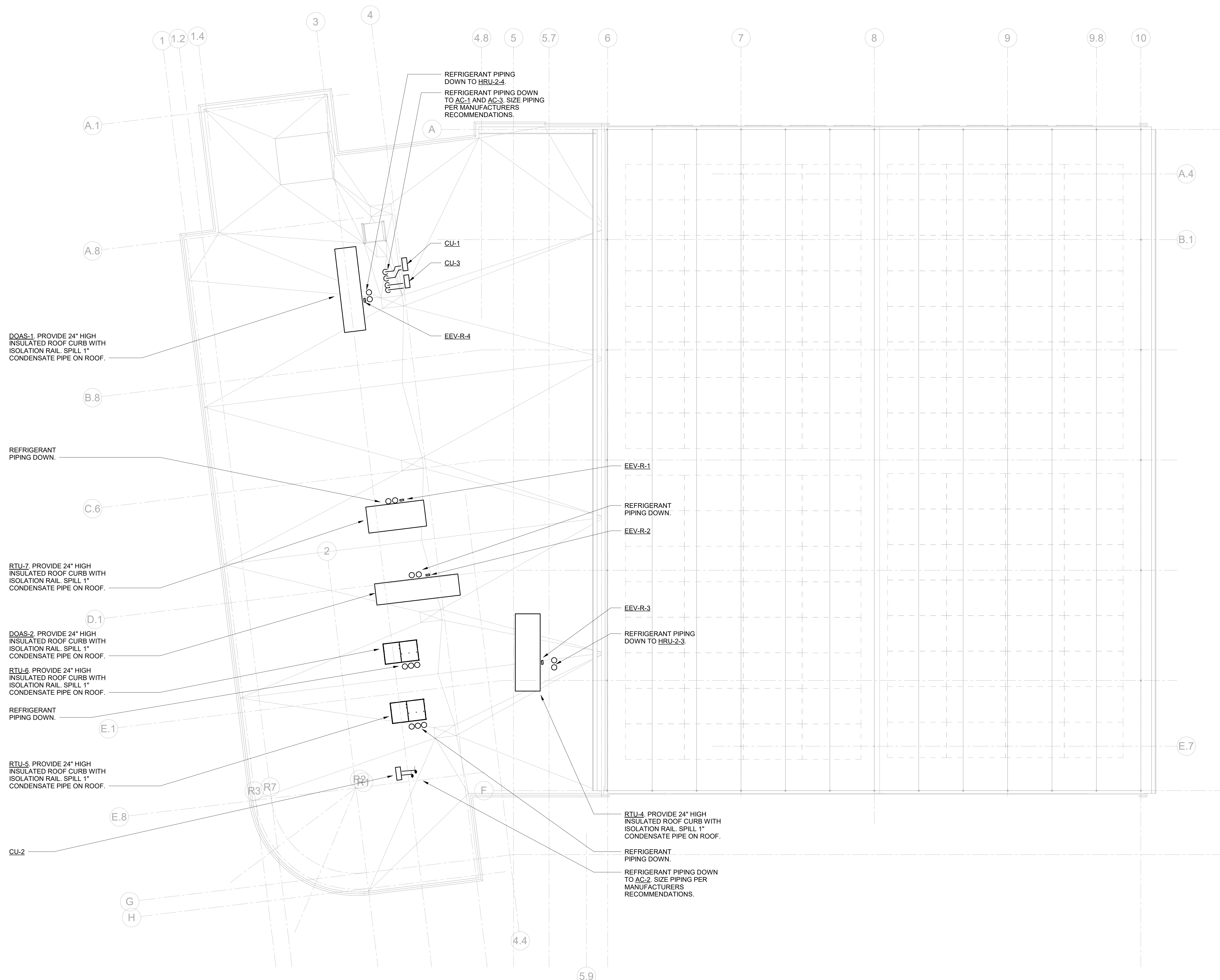
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**MECHANICAL
ROOF PIPING
PLAN**

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M-304



MECHANICAL ROOF PIPING PLAN

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

- NOTES:
- REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
 - PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

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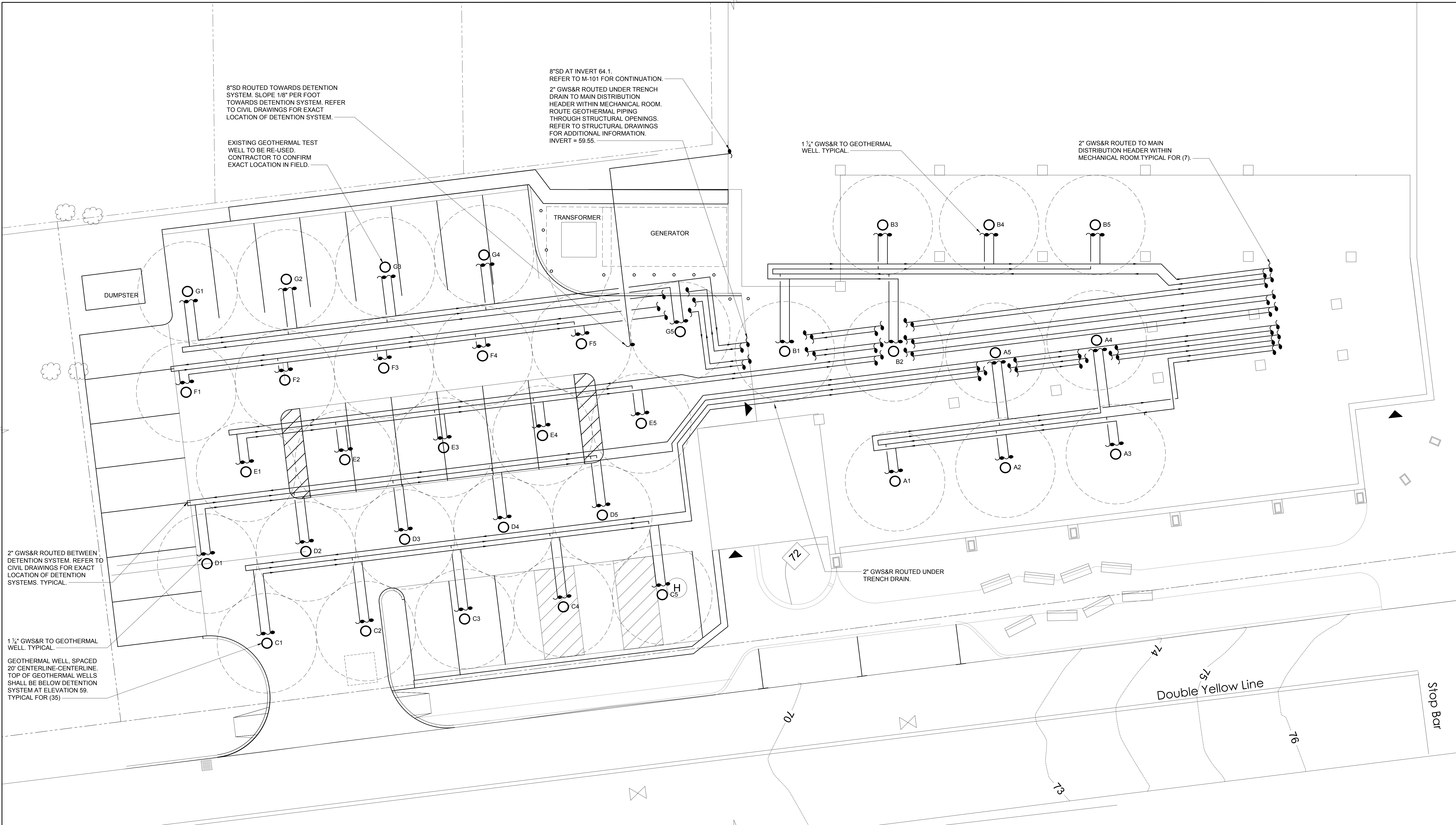
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8"SD Routed TOWARDS DETENTION SYSTEM. SLOPE 1/8" PER FOOT TOWARDS DETENTION SYSTEM. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF DETENTION SYSTEM.

8"SD AT INVERT 64.1. REFER TO M-101 FOR CONTINUATION.
2" GWS&R Routed UNDER TRENCH DRAIN TO MAIN DISTRIBUTION HEADER WITHIN MECHANICAL ROOM. ROUTE GEOTHERMAL PIPING THROUGH STRUCTURAL OPENINGS. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. INVERT = 59.55.

EXISTING GEOTHERMAL TEST WELL TO BE RE-USED. CONTRACTOR TO CONFIRM EXACT LOCATION IN FIELD.

1 1/2" GWS&R TO GEOTHERMAL WELL. TYPICAL.

2" GWS&R Routed TO MAIN DISTRIBUTION HEADER WITHIN MECHANICAL ROOM TYPICAL FOR (7).

2" GWS&R Routed BETWEEN DETENTION SYSTEM. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF DETENTION SYSTEMS. TYPICAL.

1 1/2" GWS&R TO GEOTHERMAL WELL. TYPICAL.

GEOTHERMAL WELL, SPACED 20' CENTERLINE-CENTERLINE. TOP OF GEOTHERMAL WELLS SHALL BE BELOW DETENTION SYSTEM AT ELEVATION 59. TYPICAL FOR (35)

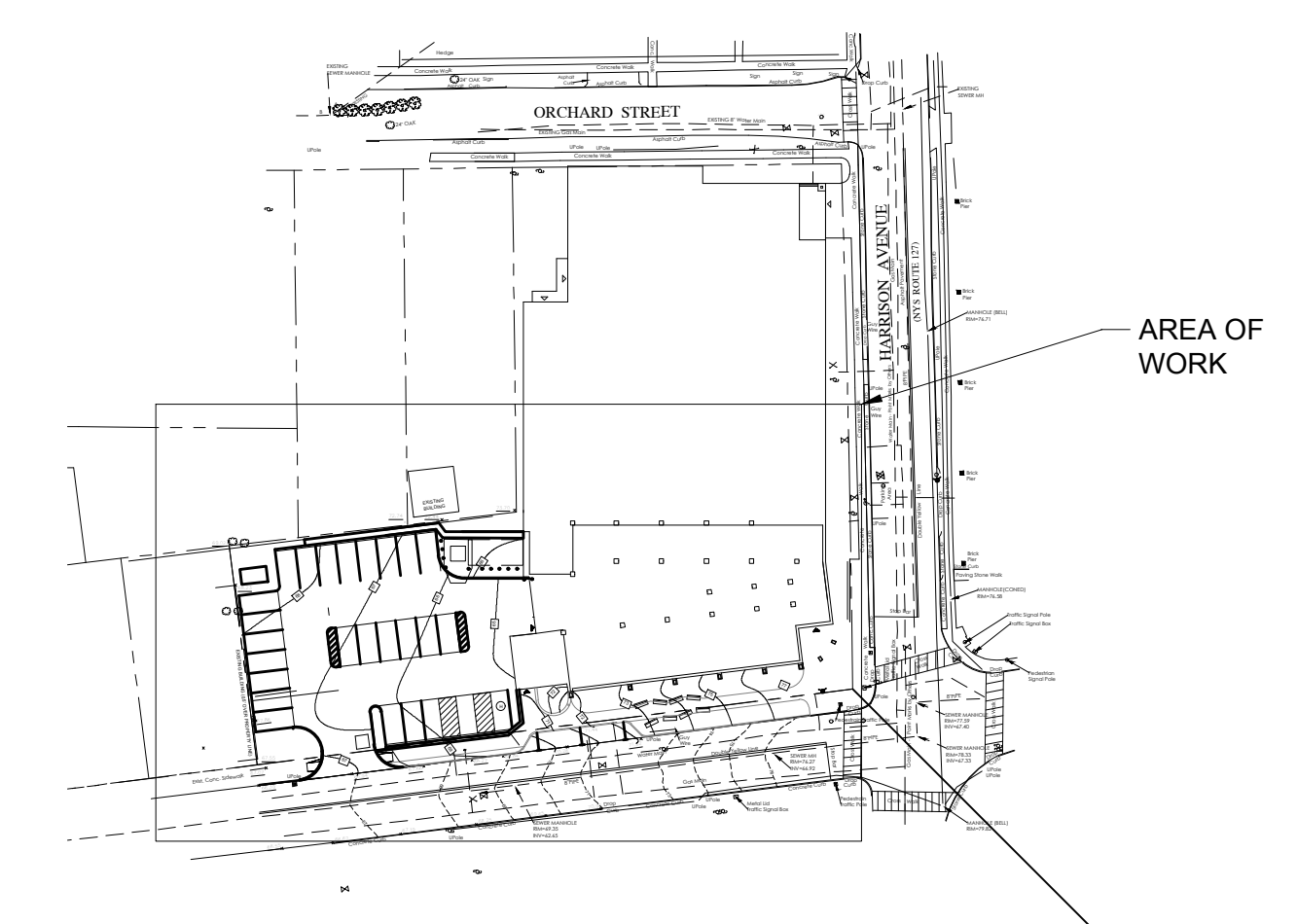
2" GWS&R Routed UNDER TRENCH DRAIN.

Double Yellow Line

Stop Bar

2 MECHANICAL SITE PLAN
SCALE: 1/8" = 1'-0"

- NOTES:
1.) ALL GEOTHERMAL PIPING SHALL BE ROUTED BETWEEN DETENTION SYSTEM.
2.) ALL GEOTHERMAL WELLS SHALL BE UNDERNEATH DETENTION SYSTEM. TOP OF ALL GEOTHERMAL WELLS SHALL BE AT ELEVATION 59.
3.) DRAWING FOR REFERENCE ONLY AS PART OF PHASE 1.

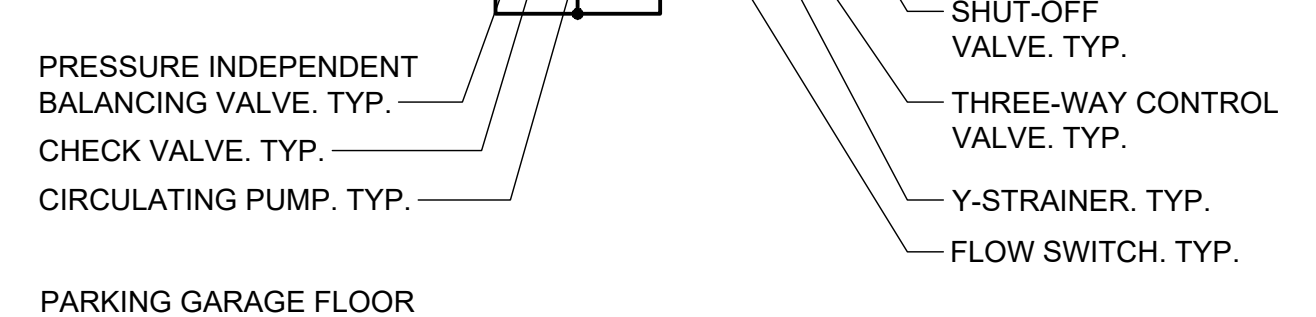
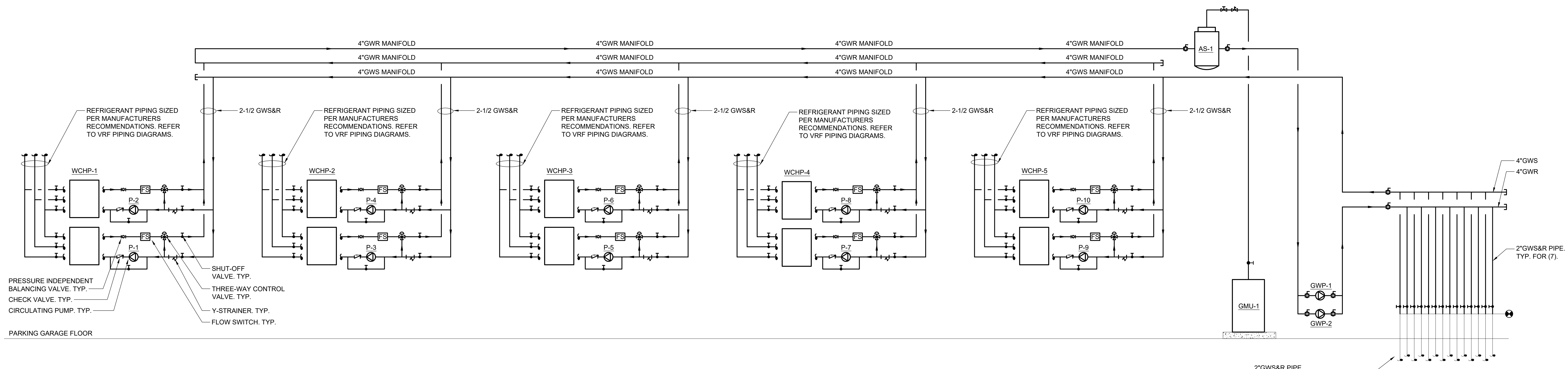


1 KEY PLAN
SCALE: NONE

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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

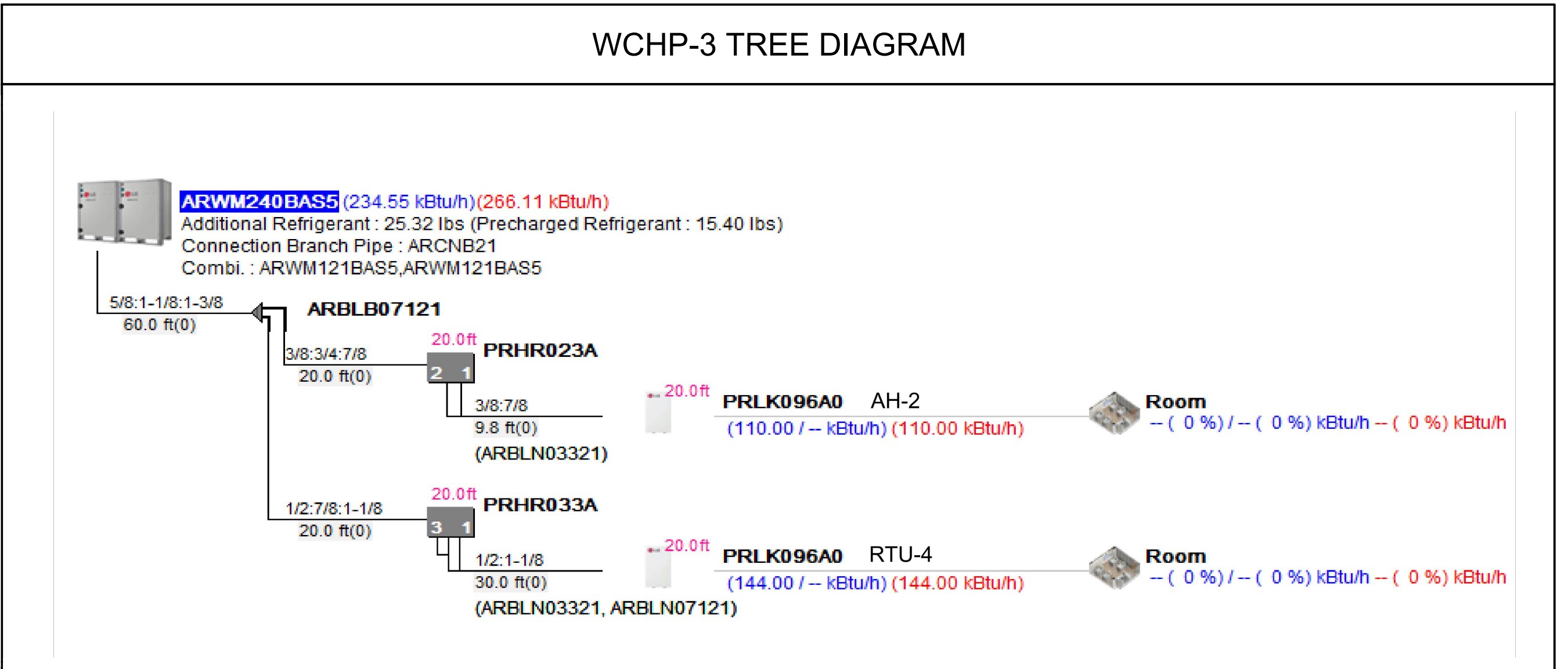
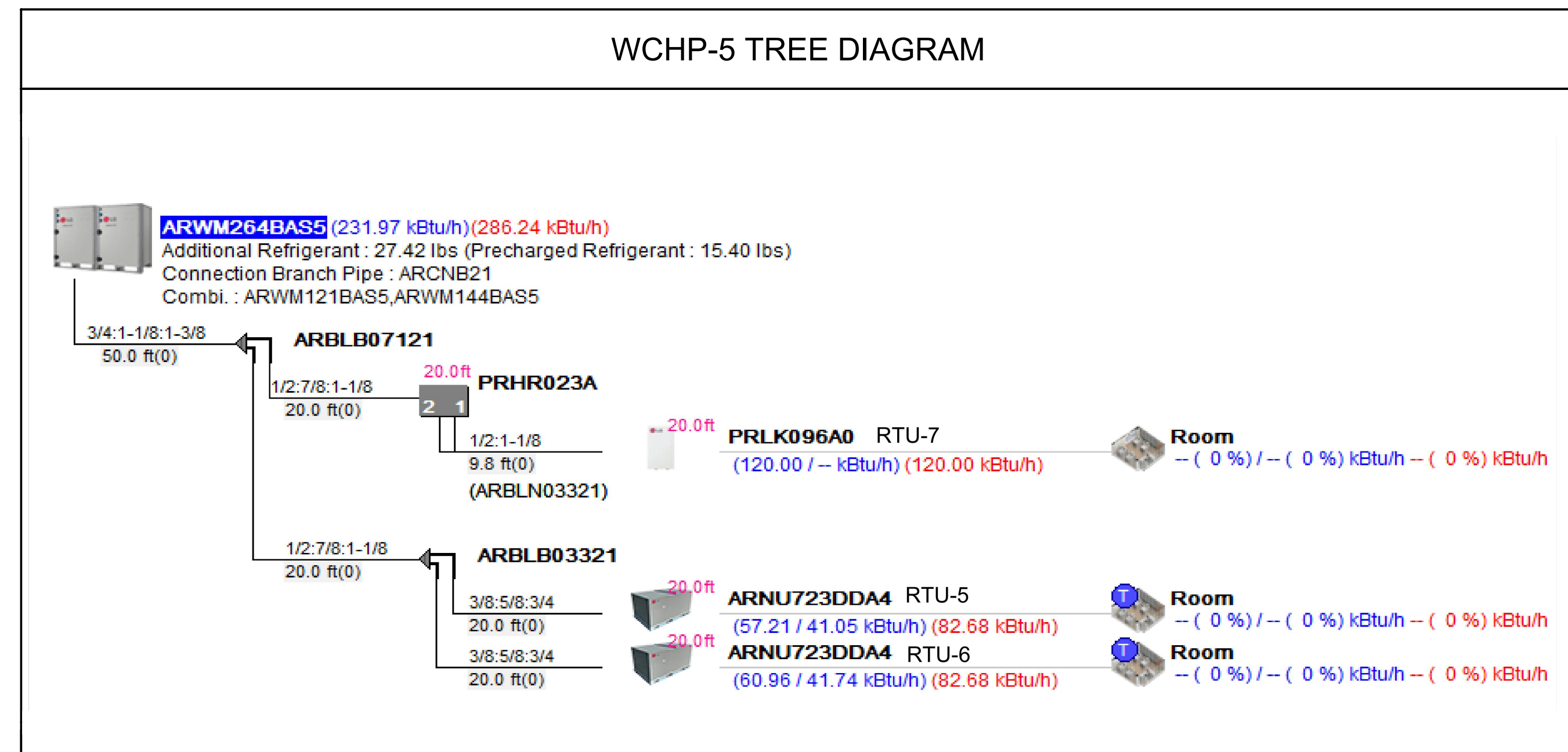
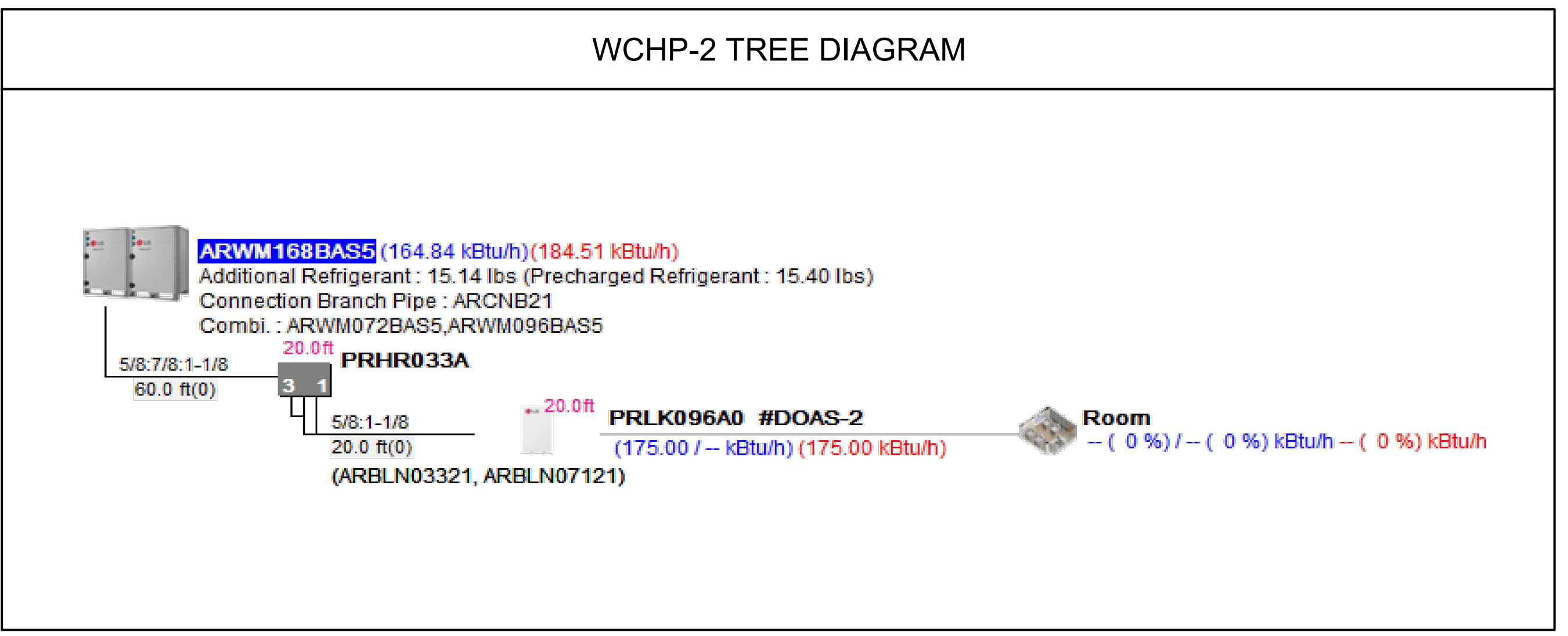
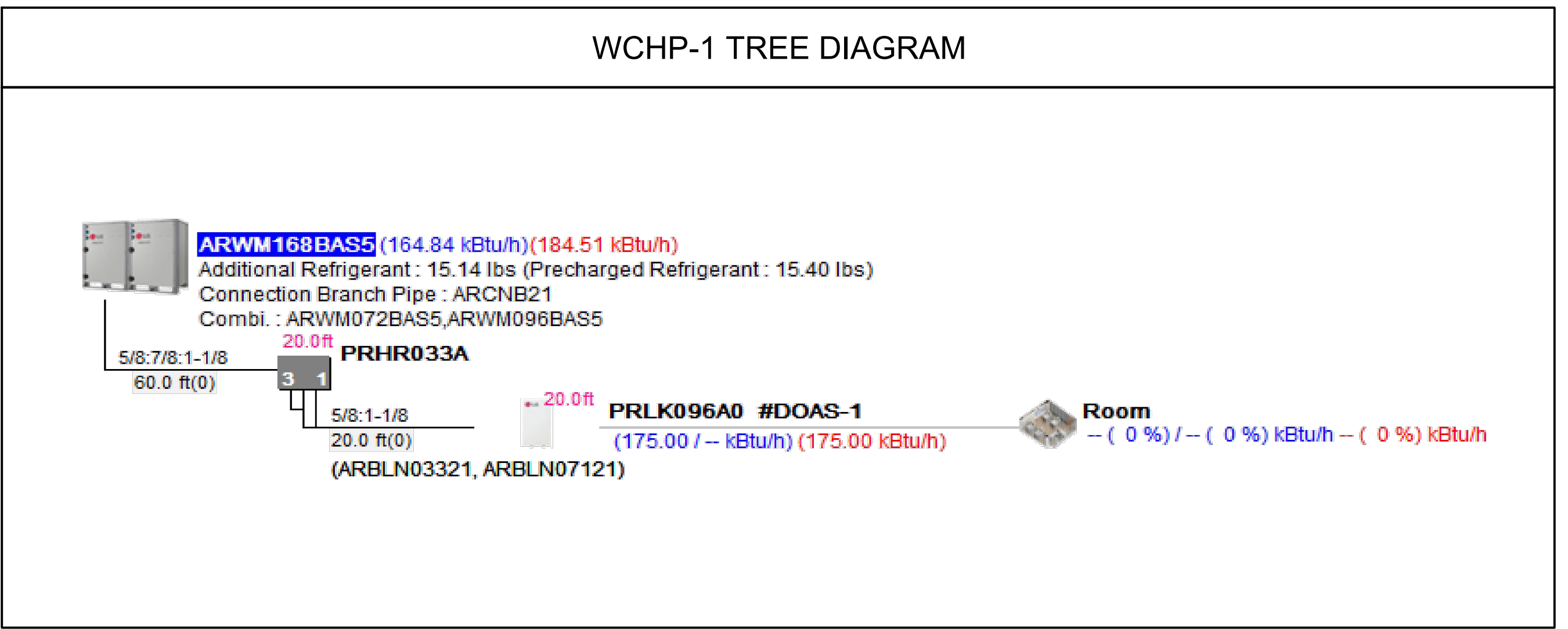
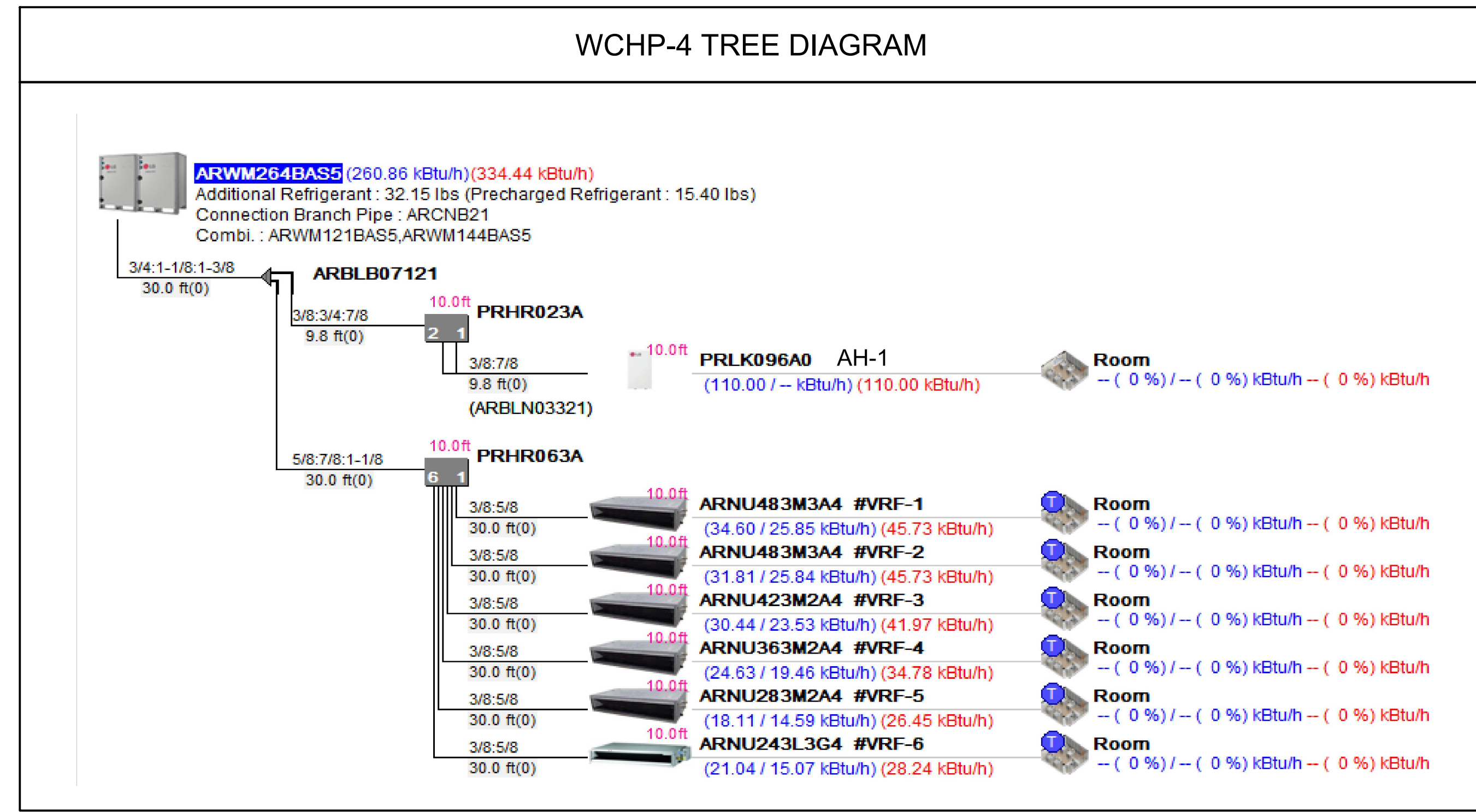
| Professional Seal | |
|-------------------|-----------------|
| Job No. | Date |
| NKGD0207.00 | 01/19/2024 |
| Scale | Drawn / Checked |
| AS NOTED | HM / RG |
| Sheet Number | |
| M-401 | |



1 GEOTHERMAL WATER SCHEMATIC
SCALE: NTS

- NOTES:
1. REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS. REFER TO VRF PIPING DIAGRAMS FOR ADDITIONAL INFORMATION.
2. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

2\"/>



- NOTES:
1. CONTRACTOR SHALL FIELD MEASURE AND DEVELOP FULL FULL VRF SYSTEM PIPING DIAGRAMS OF EACH OF THE SYSTEMS ABOVE INCLUDING LENGTHS WITH VENDOR FOR ENGINEER REVIEW.

NOTE: ALL LEGAL DESIGN ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KG+D ARCHITECTS, PC AND ARE NOT TO BE REPRODUCED OR USED FOR ANY PROJECT, NONE OF SUCH LEGAL DESIGN ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF KG+D.
WITH DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALES UNLESS CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT SHALL BE NOTIFIED OF ANY VARIATION FROM DIMENSIONS AND CONDITIONS BEFORE SHOP DETAILS ARE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.
ALTERATIONS BY ANY PERSON IN ANY WAY OF ANY ITEM CONTAINED ON THIS DOCUMENT UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE 16, SECT. 263.13 (b) OF NEW YORK STATE LAW.
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Professional Seal

| No. | Date | Issue |
|-----|------------|------------------------|
| 4 | 06/05/2024 | ISSUED FOR BID |
| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

MECHANICAL SCHEMATICS

| | | | |
|--------------|-------------|-----------------|------------|
| Job No. | KGDD0207.00 | Date | 03/01/2024 |
| Scale | AS NOTED | Drawn / Checked | HM / RG |
| Sheet Number | M-501 | | |

| RETURN REGISTER / TRANSFER GRILLE SCHEDULE | | | |
|--|--------------------|-------------------|------------|
| DESIGNATION | RG-1 / TG-1 / EG-1 | RG-2 | |
| MODEL | 3 FS | 56 FL | |
| MAX NK VEL (FT/MIN) | 500 | - | |
| MAX NC | 25 | - | |
| CONSTRUCTION | ALUMINUM | ALUMINUM | |
| BORDER/FRAME | SURFACE MOUNTED | SURFACE MOUNTED | |
| DEFLECTION | 45° FIXED | 0° FIXED | |
| SPACING | 3/4" | 3/4" | |
| | CFM RANGE | NOMINAL NECK SIZE | CFM RANGE |
| | 0-150 | 8x8 | 0 - 10,500 |
| | 151-250 | 10x10 | |
| | 251-350 | 12x12 | |
| | 351-725 | 18x18 | |
| | 726-950 | 22x22 | |
| | 951-1100 | 24x24 | |
| | 1101-1400 | 24x30 | |

NOTES:
1. RETURN REGISTERS ARE BASED ON TITUS.
2. THE ABOVE SCHEDULE INDICATES NOMINAL REGISTER NECK SIZES. THE CONTRACTOR SHALL COORDINATE THE REGISTER SIZE IN THE FIELD ACCORDING TO THE ACTUAL DUCT DIMENSIONS AND MAINTAIN AN EQUIVALENT CORE AREA.
3. ALL REGISTERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
4. SUBMIT COLOR CHART FOR REVIEW AND APPROVAL BY ARCHITECT.
5. RETURN REGISTERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED. CONTRACTOR TO COORDINATE.

| SUPPLY REGISTER SCHEDULE | | | | | |
|--------------------------|-----------------|-------------------|-----------|-------------------|-----------|
| DESIGNATION | SR-1 | SR-2 | | SR-3 | |
| MODEL | 300RL | S300FS | | DL | |
| MAX NK VEL (FT/MIN) | 550 | 550 | | 550 | |
| MAX NC | 25 | 25 | | 25 | |
| CONSTRUCTION | ALUMINUM | ALUMINUM | | ALUMINUM | |
| BORDER/FRAME | SURFACE MOUNTED | SURFACE MOUNTED | | SURFACE MOUNTED | |
| DEFLECTION | DOUBLE | DOUBLE 22.5° | | - | |
| SPACING | 3/4" | 3/4" | | - | |
| | CFM RANGE | NOMINAL NECK SIZE | CFM RANGE | NOMINAL NECK SIZE | CFM RANGE |
| | 0-200 | 8x8 | 0-220 | 14x6 | 800-1000 |
| | 201-300 | 10x10 | | | |
| | 301-500 | 12x12 | | | |
| | 501-850 | 16x16 | | | |
| | 851-1100 | 18x18 | | | |
| | 1101-1700 | 22x22 | | | |
| | 1701-2000 | 24x24 | | | |

NOTES:
1. SUPPLY REGISTERS BASED ON TITUS.
2. THE ABOVE SCHEDULE INDICATES NOMINAL REGISTER NECK SIZES. THE CONTRACTOR SHALL COORDINATE THE REGISTER SIZE IN THE FIELD ACCORDING TO THE ACTUAL DUCT DIMENSIONS AND MAINTAIN EQUIVALENT CORE AREA.
3. ALL REGISTERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
4. SUBMIT COLOR CHART FOR REVIEW AND APPROVAL BY ARCHITECT.
5. SUPPLY REGISTERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED. CONTRACTOR TO COORDINATE.
6. SR-2 AND SR-3 SHALL BE PROVIDED WITH AIR SCOOP DEVICE.

| CEILING DIFFUSER SCHEDULE | | | |
|---------------------------|-----------|-------------------|--|
| DESIGNATION | CD-1 | | |
| MODEL | OMNI | | |
| MAX CORE VEL (FT/MIN) | 550 | | |
| MAX NC | 25 | | |
| CONSTRUCTION | STEEL | | |
| FRAME | LAY-IN | | |
| DEFLECTION | 4 WAY | | |
| FACE SIZE | 24x24 | | |
| | CFM RANGE | NOMINAL NECK SIZE | |
| | 0-100 | 6" | |
| | 101-200 | 8" | |
| | 201-350 | 10" | |
| | 351-450 | 12" | |
| | 451-600 | 14" | |
| | 601-700 | 15" | |

NOTES:
1. CEILING SUPPLY DIFFUSERS ARE BASED ON TITUS.
2. ALL DIFFUSERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
3. COORDINATE COLOR SELECTION WITH ARCH PLANS.
4. SUPPLY DIFFUSERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED. CONTRACTOR TO COORDINATE.
5. ALL LAY-IN DIFFUSERS SHALL HAVE A MODULE SIZE OF 24x24. FACE SIZES SHOWN IN SCHEDULE ARE FOR SURFACE MOUNT DIFFUSERS. NECK SIZES VARY ACCORDING TO THE SCHEDULE.
6. DIFFUSER BLOW PATTERN IS AS SHOWN ON DRAWINGS.

| DUCTLESS SPLIT-SYSTEM AC UNIT SCHEDULE | | | | |
|--|--------------------|--------------------|--------------------|--|
| INDOOR/OUTDOOR UNIT DESIGNATION | AC-1 / CU-1 | AC-2 / CU-2 | AC-3 / CU-3 | |
| MANUFACTURER | LG | LG | LG | |
| NOMINAL COOLING CAPACITY (TONS) | 1 | 1 | 1 | |
| NOMINAL COOLING CAPACITY (MBH) | 12,000 | 12,000 | 11,100 | |
| NOMINAL HEATING CAPACITY AT 47°F (MBH) | 12,000 | 12,000 | 14,000 | |
| NOMINAL HEATING CAPACITY AT 19°F (MBH) | 9,640 | 9,640 | 11,900 | |
| CFM (LO-MID-HI) | 148 / 264 / 353 | 148 / 264 / 353 | 247 / 283 / 335 | |
| SEER/EER | 17 / 10.5 | 17 / 10.5 | 19.4 | |
| RS PIPE SIZE (IN) | 3/8 | 3/8 | 3/8 | |
| RL PIPE SIZE (IN) | 1/4 | 1/4 | 1/4 | |
| CONDENSATE DRAIN PIPE SIZE (IN) | 5/8 | 5/8 | 5/8 | |
| ELECTRICAL DATA: | | | | |
| VOLTS/Ø/Hz | 208/1/60 | 208/1/60 | 208/1/60 | |
| BREAKER SIZE (AMPS) AT OUTDOOR UNIT | 10 / 15 | 10 / 15 | 12.3 / 15 | |
| INDOOR EVAPORATOR UNIT DATA | | | | |
| LOCATION | DATA 111 | DATA 205A | OFFICE B05 | |
| MODEL | LSN120HFV3 | LSN120HFV3 | LCN128HV4 | |
| HEIGHT x WIDTH x DEPTH (IN) | 12.2 x 33 x 7.5 | 12.2 x 33 x 7.5 | 8.1 x 22.5 x 22.5 | |
| WEIGHT (LBS) | 19.2 | 19.2 | 31 | |
| TYPE | WALL MOUNTED | WALL MOUNTED | CEILING CASSETTE | |
| OUTDOOR CONDENSING UNIT DATA: | | | | |
| LOCATION | ROOF | ROOF | ROOF | |
| MODEL | LSU120HFV3 | LSU120HFV3 | LUU120HV | |
| HEIGHT x WIDTH x DEPTH (IN) | 19.5 x 28.3 x 10.7 | 19.5 x 28.3 x 10.7 | 21.5 x 30.4 x 11.4 | |
| WEIGHT (LBS) | 55.3 | 55.3 | 71 | |
| REFRIGERANT TYPE | R-410A | R-410A | R-410A | |

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS FOR EACH UNIT:
· 0° LOW AMBIENT CONTROLS
· HARD WIRED REMOTE CONTROLLER
· WIND BAFLE
2. FIELD SUPPLIED LOCAL DISCONNECT SWITCH AT INDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. FIELD SUPPLIED WEATHERPROOF LOCAL DISCONNECT SWITCH AT OUTDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. SINGLE POINT EXTERNAL POWER CONNECTION FOR EACH INDOOR/OUTDOOR SET OF UNITS SHALL BE AT THE OUTDOOR UNIT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING FROM THE OUTDOOR UNIT TO THE INDOOR UNIT.
5. THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL WIRING BETWEEN THE OUTDOOR UNIT AND INDOOR UNIT.
6. PROVIDE ALL REQUIRED MOUNTING BRACKETS, SUPPORTS, HANGERS, PADS, ETC. FOR INSTALLATION.
7. PROVIDE ACCESSORIES AS REQUIRED BY MANUFACTURER, WHICH MAY INCLUDE: LIQUID LINE SOLENOID, RELAYS, FILTERS, ETC.

| VARIABLE REFRIGERANT FLOW - WATER COOLED CONDENSING UNIT SCHEDULE | | | | | |
|---|---|---|---|---|---|
| DESIGNATION | WCHP-1 | WCHP-2 | WCHP-3 | WCHP-4 | WCHP-5 |
| DESCRIPTION | HEAT RECOVERY | HEAT RECOVERY | HEAT RECOVERY | HEAT RECOVERY | HEAT RECOVERY |
| RATED COOLING CAPACITY | | | | | |
| BTUH/HR | 168,000 | 168,000 | 239,000 | 264,000 | 264,000 |
| EWT (°F) | 85 | 85 | 85 | 85 | 85 |
| LWT (°F) | 94.2 | 94.2 | 94.8 | 95.1 | 94 |
| GPM | 45.7 | 45.7 | 60.8 | 65.9 | 65.9 |
| RATED HEATING CAPACITY | | | | | |
| BTUH/HR | 189,000 | 189,000 | 269,000 | 297,000 | 297,000 |
| EWT (°F) | 45 | 45 | 45 | 45 | 45 |
| LWT (°F) | 38.3 | 38.3 | 37.7 | 36.4 | 37.9 |
| GPM | 45.7 | 45.7 | 60.8 | 65.9 | 65.9 |
| REFRIGERANT CHARGE | | | | | |
| TOTAL CHARGE (LBS) | 30.6 | 30.6 | 40.8 | 47.6 | 42.9 |
| FACTORY CHARGE (LBS) | 15.4 | 15.4 | 15.4 | 15.4 | 15.4 |
| ADDITIONAL REFRIGERANT (LBS) | 15.2 | 15.2 | 25.4 | 32.2 | 27.5 |
| ELECTRICAL DATA: | | | | | |
| VOLTS / Ø / Hz | 208/3/60 | 208/3/60 | 208/3/60 | 208/3/60 | 208/3/60 |
| MCA (MODULE 1 / MODULE 2) | 13.8/19.4 | 13.8/19.4 | 27.7/27.7 | 27.7/32.7 | 27.7/32.7 |
| MOCP (MODULE 1 / MODULE 2) | 20/30 | 20/30 | 45/45 | 45/50 | 45/50 |
| PHYSICAL: | | | | | |
| TONS | 14 | 14 | 20 | 22 | 22 |
| WEIGHT (LBS) (MODULE 1 / MODULE 2) | 322/322 | 322/322 | 322/322 | 322/322 | 322/322 |
| DIMENSIONS (WxHxD) (IN) (MODULE 1 / MODULE 2) | 30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5 | 30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5 | 30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5 | 30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5 | 30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5 |
| PERFORMANCE: | | | | | |
| COOLING (BTUH/W) | 15.6 | 15.6 | 15.6 | 16 | 15.4 |
| HEATING (BTUH/W) | 15.3 | 15.3 | 15.5 | 16.3 | 14.2 |
| BASIS OF DESIGN | ARWM168BA55 | ARWM168BA55 | ARWM240BA55 | ARWM264BA55 | ARWM264BA55 |

NOTES:
1. UNITS BASED ON LG.
2. PROVIDE RUBBER VIBRATION ISOLATION FOR EACH UNIT.
3. WARRANTY SHALL BE 10 YEARS PARTS AND 10 YEARS ON THE COMPRESSORS
4. CONTRACTOR SHALL HIRE THE MANUFACTURERS INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.
5. PROVIDE ALL UNITS WITH RATED DISCONNECT SWITCH.

| LINEAR DIFFUSER SCHEDULE | | | | |
|--------------------------|-----------|-------------------|-----------|-------------------|
| DESIGNATION | LD-1 | LD-2 | LD-3 | |
| MODEL | FL-15 | FL-20 | FL-20 | |
| MAX NC | 25 | 25 | 25 | |
| CONSTRUCTION | ALUMINUM | ALUMINUM | ALUMINUM | |
| FRAME | LAY-IN | LAY-IN | LAY-IN | |
| NUMBER OF SLOTS | 1 | 1 | 1 | |
| SLOT WIDTH (IN) | 1.5 | 2 | 2 | |
| LENGTH | 48" | 48" | 24" | |
| | CFM RANGE | NOMINAL NECK SIZE | CFM RANGE | NOMINAL NECK SIZE |
| | 0 - 140 | 6" | 0 - 200 | 8" |
| | 141 - 170 | 8" | 201 - 230 | 12" |

NOTES:
1. CEILING LINEAR SUPPLY DIFFUSERS ARE BASED ON TITUS.
2. COORDINATE COLOR SELECTION WITH ARCHITECTURAL PLANS.
3. SUPPLY DIFFUSERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED. CONTRACTOR TO COORDINATE.
4. DIFFUSER BLOW PATTERN IS AS SHOWN ON DRAWINGS. PROVIDE PATTERN CONTROLLER.
5. DIFFUSERS SHALL BE INSTALLED WITH FACTORY-BUILT SUPPLY PLENUMS WITH MANUFACTURERS INTERNAL SOUND LINING. FIELD INSULATED PLENUMS SHALL BE BASED ON TITUS FBPI.
6. COORDINATE DIFFUSER INSTALLATION WITH REFLECTED CEILING PLANS AND ALL OTHER TRADES.
7. INACTIVE DIFFUSER SECTIONS SHALL BE OPEN TO CEILING PLENUM AND PROVIDED WITH FACTORY LIGHT SHIELD.
8. PROVIDE CONCEALED CABLE OPERATED BALANCING DAMPERS THROUGH SLOT OPENINGS FOR ALL LINEAR DIFFUSERS WITH INACCESSIBLE VOLUME DAMPERS.

| ELECTRONIC EXPANSION VALVE KIT | |
|--------------------------------|--|
| DESIGNATION | EEV-B-1, EEV-1-1, EEV-R-1, EEV-R-2, EEV-R-3, EEV-R-4 |
| QUANTITY | 6 |
| MAX AH CAPACITY (MBH) | 192 |
| WEIGHT (LBS) | 6.8 |
| DIMENSIONS (WxHxD) | 8.75 x 16 x 3.5 |
| ELECTRICAL DATA: | |
| VOLTS / Ø / Hz | 208/1/60 |
| AMPS | 0.1 |
| BASIS OF DESIGN | PRLK096A0 |

NOTES:
1. UNITS BASED ON LG.
2. CONTRACTOR TO MAINTAIN A MAXIMUM DISTANCE OF 10 FEET BETWEEN EEV AND COMM KIT.
3. REFRIGERANT TYPE IS R410A

| VARIABLE REFRIGERANT FLOW - ZONE HEAT RECOVERY UNIT SCHEDULE | | | | |
|--|------------------------------|------------------------------|-------------------|--|
| DESIGNATION | HURU-2-1, HURU-2-2, HURU-2-4 | HURU-1-1, HURU-1-2, HURU-1-3 | HURU-1-2 | |
| NUMBER OF PORTS | 3 | 2 | 6 | |
| QUANTITY | 3 | 3 | 1 | |
| CAPACITY PER BRANCH (MBH) | 60 | 60 | 60 | |
| WEIGHT (LBS) | 37 | 33 | 60 | |
| DIMENSIONS (WxHxD) (IN) | 19.25 x 8.75 x 19 | 19.25 x 8.75 x 19 | 31.25 x 8.75 x 19 | |
| ELECTRICAL DATA: | | | | |
| VOLTS / Ø / Hz | 208/1/60 | 208/1/60 | 208/1/60 | |
| MCA | 0.17 | 0.17 | 0.27 | |
| MOCP | 15 | 15 | 15 | |
| BASIS OF DESIGN | PRHR033A | PRHR023A | PRHR063A | |

NOTES:
1. UNITS BASED ON LG.
2. PROVIDE DISCONNECT SWITCH.
3. INDIVIDUAL CONTROL AND CHANGEOVER FOR ONE GROUP OF INDOOR UNITS.
4. MAINTAIN REQUIRED CLEARANCES FOR UNIT.

| VARIABLE REFRIGERANT FLOW - INDOOR UNITS SCHEDULE | | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|---------------|
| DESIGNATION | VRF-1 | VRF-2 | VRF-3 | VRF-4 | VRF-5 | VRF-6 |
| TONNAGE | 4 | 4 | 3.5 | 3 | 2.5 | 2 |
| TYPE | DUCTED | DUCTED | DUCTED | DUCTED | DUCTED | DUCTED |
| QUANTITY | 1 | 1 | 1 | 1 | 1 | 1 |
| SUPPLY FAN AIRFLOW | 1,191 | 1,191 | 1,076 | 845 | 676 | 710 |
| ESP (IN WC) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| COOLING PERFORMANCE | | | | | | |
| TOTAL (BTUH) | 34.6 | 31.8 | 30.5 | 24.7 | 18.2 | 21 |
| SENSIBLE (BTUH) | 25.9 | 25.9 | 23.6 | 19.5 | 14.6 | 15 |
| EAT (DB / WB) | 74.8 / 62.7 | 72.7 / 61 | 73.6 / 61.7 | 73 / 61.2 | 72.3 / 60.6 | 74.8 / 62.7 |
| LAT (DB) | 55.6 | 53.5 | 54.3 | 52.6 | 53.2 | 56 |
| HEATING PERFORMANCE | | | | | | |
| TOTAL CAPACITY (BTUH) | 45.8 | 45.8 | 42 | 34.8 | 26.5 | 28.3 |
| EAT (DB) | 68 | 68 | 68 | 68 | 68 | 68 |
| LAT (DB) | 102.4 | 102.4 | 103 | 104.9 | 103.1 | 103.7 |
| ELECTRICAL DATA: | | | | | | |
| VOLTS / Ø / Hz | 208/1/60 | 208/1/60 | 208/1/60 | 208/1/60 | 208/1/60 | 208/1/60 |
| MCA | 3.1 | 3.1 | 2.9 | 2.9 | 2.9 | 1.2 |
| MOCP | 15 | 15 | 15 | 15 | 15 | 15 |
| WEIGHT (LBS) | 96.1 | 96.1 | 86.2 | 86.2 | 86.2 | 60 |
| DIMENSIONS (WxHxD) (IN) | 49.5x14.5x27.5 | 49.5x14.5x27.5 | 49.5x10.5x27.5 | 49.5x10.5x27.5 | 49.5x10.5x27.5 | 49.5x7.5x27.5 |
| MODEL | ARNU483M3A4 | ARNU483M3A4 | ARNU423M2A4 | ARNU363M2A4 | ARNU283M2A4 | ARNU243L3G4 |

NOTES:
1. UNITS BASED ON LG.
2. PROVIDE DUCTED UNITS WITH CONDENSATE PUMP. REFER TO M-601 FOR CONDENSATE PUMP SPECIFICATION.
3. PROVIDE UNITS WITH DISCONNECT SWITCH.

| ELECTRIC FIN TUBE RADIATORS | | |
|-----------------------------|------------|------------|
| DESIGNATION | FTR-1 | FTR-2 |
| LOCATION | SEE PLANS | SEE PLANS |
| AREA SERVED | SEE PLANS | SEE PLANS |
| MODEL | CPH05A8125 | CPH05A8188 |
| LENGTH | 8 FEET | 8 FEET |
| NUMBER OF ELEMENTS | 1 | 1 |
| VOLTS/Ø/Hz | 208/1/60 | 208/1/60 |
| KW | 1 | 1.5 |
| AMPS | 4.8 | 7.2 |

NOTES:
1. HEATERS BASED ON QMARK
2. PROVIDE DPHOSA PEDESTAL. PEDESTAL SHALL BE 3-3/8" TALL. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
3. PROVIDE DISCONNECT SWITCH FOR EACH HEATER
4. PROVIDE UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER. COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM
5. PROVIDE FACTORY INSTALLED LINEAR THERMAL CUT-OUT.
6. CABINET FINISH SHALL BE APPROVED BY ARCHITECT.
7. PROVIDE THERMOSTAT AT AT LOCATION SHOWN ON DRAWINGS.

| ELECTRIC HEATER | | | | | |
|-----------------|-----------|-----------|-----------|-----------|-----------|
| DESIGNATION | UH-1 | WH-1 | WH-2 | CUH-1 | CUH-2 |
| LOCATION | SEE PLANS | SEE PLANS | SEE PLANS | SEE PLANS | SEE PLANS |
| AREA SERVED | SEE PLANS | SEE PLANS | SEE PLANS | SEE PLANS | SEE PLANS |
| MODEL | MUH03-81 | AWH3150F | AWH4404F | CU935 | CU935 |
| CFM | 350 | - | - | 250 | 250 |
| HP | 1/100 | - | - | - | - |
| FAN RPM | 11000 | - | - | - | - |
| VOLTS/Ø/Hz | 208/1/60 | 120/1/60 | 208/3/60 | 208/3/60 | 208/3/60 |
| KW | 3 | 1.5 | 3 | 2 | 3 |
| AMPS | 14.5 | 12.5 | 14.4 | 6 | 9 |

NOTES:
1. HEATER BASED ON QMARK.
2. PROVIDE DISCONNECT SWITCH FOR EACH HEATER.
3. CABINET UNIT HEATERS SHALL HAVE UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER. COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM. KEY LOCK ACCESS DOORS, UNIT MOUNTED THERMOSTAT WITH FAN ON-OFF-AUTO SWITCH AND TEMP SETTING, AND (2) SETS OF SPARE FILTERS FOR EACH UNIT.
4. CABINET UNIT HEATER FINISH SHALL BE APPROVED BY ARCHITECT.
5. UNIT HEATERS SHALL BE PROVIDED WITH 24 VOLT CONTROL TRANSFORMER, FACTORY HANGING KIT TO MOUNT TO SLAB/CEILING/WALL AS INDICATED ON DRAWINGS, AND FACTORY INSTALLED AUTOMATIC RESET LINEAR THERMAL CUT-OUT. CONTRACTOR SHALL COORDINATE SUPPORT FOR UNIT HEATERS FOR EACH CONDITION.
6. PROVIDE THERMOSTAT AT LOCATION SHOWN ON DRAWINGS.

- ### EQUIPMENT NOTES
- FIRE DAMPERS: SHALL BE RUSKIN MODEL DIBD-2, 1-1/2 HOUR UL555 RATED, SUITABLE FOR INSTALLATION IN WALL AND FLOOR PARTITIONS WITH FIRE RATINGS OF LESS THAN 3 HOURS. DAMPER SHALL BE A COMPLETE FACTORY PACKAGE INCLUDING UL APPROVED ANGLES, WALL SLEEVE, AND BREAKAWAY CONNECTIONS. DAMPER SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS OF 2,000 FPM AND 4.0" SP.
 - VOLUME CONTROL DAMPERS: FOR ALL ROUND & RECTANGULAR VOLUME CONTROL DAMPERS THAT ARE LOCATED ABOVE INACCESSIBLE CEILINGS, PROVIDE CABLE OPERATED DAMPERS. ROUND DAMPERS SHALL BE YOUNG BOWDEN MODEL 5029 CC. RECTANGULAR DAMPERS SHALL BE MODEL 830-CC. CABLE CONTROLS SHALL BE MODEL 27

100% ENERGY RECOVERY OUTDOOR AIR HANDLER

| | | |
|--|---------------------|---------------------|
| DESIGNATION | DOAS-1 | DOAS-2 |
| LOCATION | ROOF | ROOF |
| AREA SERVED | SEE PLANS | SEE PLANS |
| MANUFACTURER | VTS AMERICA INC. | VTS AMERICA INC. |
| MODEL | AVS020-R-FRMCHVE | AVS020-R-FRMCHVE |
| WEIGHT OF UNIT (LBS) | 1,770 | 1,770 |
| DIMENSION (WxHxD) (IN) | 47 x 54 x 189 | 47 x 54 x 189 |
| OUTSIDE AIR (CFM) | 2,000 | 2,000 |
| SUPPLY FAN: | | |
| CFM | 2,000 | 2,000 |
| ESP/TSP (IN H ₂ O) | 1.0 | 1.0 |
| TYPE | DIRECT DRIVE PLENUM | DIRECT DRIVE PLENUM |
| MOTOR HP | 2 | 2 |
| CONTROL | VFD | VFD |
| VOLTS / Ø / Hz | 208 / 1 / 60 | 208 / 1 / 60 |
| MCA / MOCP (AMPS) | 6.3 / 15 | 6.3 / 15 |
| EXHAUST FAN: | | |
| CFM | 2,000 | 2,000 |
| ESP/TSP (IN H ₂ O) | 1.0 | 1.0 |
| TYPE | DIRECT DRIVE PLENUM | DIRECT DRIVE PLENUM |
| MOTOR HP | 1.5 | 1.5 |
| CONTROL | VFD | VFD |
| VOLTS / Ø / Hz | 208 / 1 / 60 | 208 / 1 / 60 |
| MCA / MOCP (AMPS) | 5.6 / 15 | 5.6 / 15 |
| COOLING PERFORMANCE: | | |
| E.A.T (DB / WB) | 95.0 / 78.0 | 95.0 / 78.0 |
| L.A.T (DB / WB) | 52.8 / 52.8 | 52.8 / 52.8 |
| GROSS TOTAL CAPACITY (MBH) | 174.7 | 174.7 |
| GROSS SENSIBLE CAPACITY (MBH) | 93.8 | 93.8 |
| REHEAT CAPACITY (MBH) | 34.7 | 34.7 |
| REHEAT (DB / WB) | 70.0 / 60.3 | 70.0 / 60.3 |
| HEATING PERFORMANCE: HEAT PUMP | | |
| E.A.T. / L.A.T. (DB) | 52.8 / 75.0 | 52.8 / 75.0 |
| HEATING CAPACITY (MBH) | 48.7 | 48.7 |
| HEAT ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB) | | |
| WINTER RETURN (EXHAUST AIR STREAM) | 68 / 68 | 68 / 68 |
| WINTER EXHAUST (EXHAUST AIR STREAM) | 13.9 / 13.9 | 13.9 / 13.9 |
| WINTER SUPPLY (SUPPLY AIR STREAM) | 54.2 / 54.2 | 54.2 / 54.2 |
| WINTER OUTDOOR AIR (OUTDOOR AIR STREAM) | 0.0 / -1.0 | 0.0 / -1.0 |
| SUMMER RETURN (EXHAUST AIR STREAM) | 77 / 63 | 77 / 63 |
| SUMMER EXHAUST (EXHAUST AIR STREAM) | 91.2 / 75.4 | 91.2 / 75.4 |
| SUMMER SUPPLY (SUPPLY AIR STREAM) | 80.2 / 65.8 | 80.2 / 65.8 |
| SUMMER OUTDOOR AIR (OUTDOOR AIR STREAM) | 95 / 78 | 95 / 78 |
| VOLTS / Ø / Hz | 208/3/60 | 208/3/60 |
| MCA / MOCP (AMPS) | 0.8 / 15.0 | 0.8 / 15.0 |
| LINES & FILTERS: | | |
| CONDENSATE DRAIN LINE SIZE (IN) | 1" | 1" |
| RETURN AIR FILTER TYPE | 2" MERV 8 | 2" MERV 8 |

NOTES:
 1. PROVIDE THE FOLLOWING OPTIONS:
 • 100% OUTSIDE AIR UNIT
 • DIRTY FILTER SENSOR
 • EXTRA DRIVE BELT AND FILTER SET
 • DISCONNECT SWITCH
 • FREEZE-STAT
 2. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS:
 • TRIPLE POINT EXTERNAL POWER CONNECTION AT UNIT.
 • ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
 • UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM
 3. MOTOR STARTER & DISCONNECT SWITCH FOR EACH UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR. EACH UNIT SHALL BE FURNISHED WITH THE UNIT- MOUNTED LOCAL DISCONNECT SWITCH.
 4. UNIT SHALL BE MOUNTED ON VIBRATION ISOLATION ROOF CURB. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. LOWER PORTION OF VIBRATION CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.
 5. PROVIDE UNIT WITH AIR SIDE ECONOMIZER AND HOT GAS REHEAT.
 6. INTERNAL VFDS SHALL BE RATED FOR TEMPERATURE RANGING FROM 0°F TO 100°F.

PACKAGED NATURAL GAS FIRED ROOFTOP UNIT SCHEDULE

| | | | |
|--|--------------------|--------------------|--------------------|
| DESIGNATION | RTU-1 | RTU-2 | RTU-3 |
| LOCATION | ROOF | ROOF | ROOF |
| AREA SERVED | GYM | GYM | FITNESS |
| MANUFACTURER | TEMPMASTER | TEMPMASTER | TEMPMASTER |
| MODEL | CV25T3DQ2S1ABN47E3 | CV25T3DQ2S1ABN47E3 | ZJ120S18R2B5BCE3A3 |
| NOMINAL CAPACITY (TONS) | 25 | 25 | 10 |
| WEIGHT OF UNIT (LBS) | 2,485 | 2,485 | 1,285 |
| SUPPLY DUCT CONNECTION | BOTTOM | BOTTOM | BOTTOM |
| RETURN DUCT CONNECTION | BOTTOM | BOTTOM | BOTTOM |
| OUTSIDE AIR (CFM) | 3,450 | 3,450 | 960 |
| SUPPLY FAN: | | | |
| QUANTITY | 1 | 1 | 1 |
| TOTAL CFM | 10,500 | 10,500 | 3,500 |
| CFM FOR EACH FAN | 10,500 | 10,500 | 3,500 |
| ESP/TSP (IN H ₂ O) | 1.5 / - | 1.5 / - | 1 / - |
| TYPE | BELT | BELT | BELT |
| HP FOR EACH FAN | 10 | 10 | 3 |
| CONTROL | VFD | VFD | VFD |
| COOLING PERFORMANCE: | | | |
| E.A.T (DB / WB) | 76.9 / 64 | 76.9 / 64 | 76.3 / 63.4 |
| L.A.T (DB / WB) | 58.3 / 55.5 | 58.3 / 55.5 | 53.6 / 52.5 |
| TOTAL CAPACITY (MBH) | 268.1 | 268.1 | 110.3 |
| SENSIBLE CAPACITY (MBH) | 210.9 | 210.9 | 85.9 |
| NUMBER OF COMPRESSORS | 2 | 2 | 2 |
| NUMBER OF CIRCUITS | 2 | 2 | 2 |
| NUMBER OF STAGES | 4 | 4 | 2 |
| REHEAT CAPACITY (MBH) | 166.5 | 166.5 | 57.3 |
| REHEAT (DB / WB) | 72 / 62.4 | 72 / 62.4 | 71.8 |
| HEATING PERFORMANCE: NATURAL GAS FURNACE | | | |
| E.A.T. / L.A.T. (DB) | 62.6 / 91.2 | 62.6 / 91.2 | 64.9 / 103.5 |
| HEATING CAPACITY INPUT (MBH) | 400 | 400 | 180 |
| HEATING CAPACITY OUTPUT (MBH) | 324 | 324 | 146 |
| INLET PRESSURE (IN WC) | 7 - 14 | 7 - 14 | 7 - 14 |

ERV:
 MODEL CV25T3DQ2S1ABN47E3 CV25T3DQ2S1ABN47E3 ZJ120S18R2B5BCE3A3
 WEIGHT OF UNIT (LBS) 1,230 1,230 318
 OUTSIDE AIR CFM 3,450 3,450 960
 SUMMER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)

| | | | |
|--|--------------|--------------|-------------|
| RETURN (EXHAUST AIR STREAM) | 75 / 62 | 75 / 62 | 75 / 62 |
| EXHAUST (EXHAUST AIR STREAM) | 80.4 / 67.61 | 80.4 / 67.61 | 79.2 / 66.4 |
| SUPPLY (SUPPLY AIR STREAM) | 76.9 / 64 | 76.9 / 64 | 76.3 / 63.4 |
| OUTDOOR (OUTDOOR AIR STREAM) | 95 / 78 | 95 / 78 | 95 / 78 |
| WINTER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB) | | | |
| RETURN (EXHAUST AIR STREAM) | 70 | 70 | 70 |
| EXHAUST (EXHAUST AIR STREAM) | 49 | 49 | 53.9 |
| SUPPLY (SUPPLY AIR STREAM) | 62.6 | 62.6 | 64.9 |
| OUTDOOR (OUTDOOR AIR STREAM) | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---------------------------------|-------------------------|-------------------------|--------------------|
| LINES & FILTERS: | | | |
| CONDENSATE DRAIN LINE SIZE (IN) | 1 | 1 | 1 |
| RETURN AIR FILTER TYPE | ANGLE FILTER 4" MERV 13 | ANGLE FILTER 4" MERV 13 | 4" PLEATED MERV 13 |
| QUANTITY AND SIZE | (9) 16x25 | (9) 16x25 | (4) 24x20 |
| EFFICIENCY: | | | |
| EER | 10 | 10 | 12 |
| IEER | 14.2 | 14.2 | 15 |
| ELECTRICAL DATA - RTU | | | |
| VOLTS / Ø / Hz | 208 / 3 / 60 | 208 / 3 / 60 | 208 / 3 / 60 |
| MCA / MOCP (AMPS) | 143.7 / 175 | 143.7 / 175 | 44.9 / 50 |
| ELECTRICAL DATA - ERV | | | |
| VOLTS / Ø / Hz | 208 / 3 / 60 | 208 / 3 / 60 | 208 / 3 / 60 |
| MCA / MOCP (AMPS) | 23.5 / 25 | 23.5 / 25 | 8.3 / 10 |

NOTES:
 1. PROVIDE RTU-1, RTU-2, RTU-3 WITH DUCT MOUNTED SMOKE DETECTORS.
 2. PROVIDE RTU-1, RTU-2, RTU-3 WITH INSULATED ROOF CURB WITH VIBRATION ISOLATION RAIL. ROOF CURB SHALL BE RETURN PLENUM.
 3. PROVIDE UNITS WITH DISCONNECT SWITCH. ALL OUTDOOR UNITS SHALL BE PROVIDED WITH RATED DISCONNECT SWITCH.
 4. PROVIDE RTU-1, RTU-2, RTU-3 WITH AIRSIDE ECONOMIZER AND POWER EXHAUST.
 5. PROVIDE RTU-1, RTU-2, RTU-3 WITH HOT GAS REHEAT.
 6. PROVIDE THE FOLLOWING OPTIONS FOR ALL UNITS:
 • HIGH STATIC DRIVE MOTOR. COORDINATE LEFT-RIGHT HAND FAN DRIVE IN FIELD.
 • 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND ECONOMIZER HOOD.
 • FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT.
 • UNIT SHALL BE MOUNTED ON VIBRATION ISOLATION ROOF CURB. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. LOWER PORTION OF VIBRATION CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.
 • PROVIDE 4" FIELD INSTALLED FILTER SECTION WITH HINGED ACCESS DOOR AND PROVIDE MERV 10 FILTERS.
 7. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR ALL UNITS:
 • UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM
 • ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
 • SINGLE POINT EXTERNAL POWER CONNECTION AT BOTH RTU AND ERV. UNIT-MOUNTED DISCONNECT SWITCH, AND FACTORY INSTALLED MOTOR STARTERS. VAV UNITS SHALL HAVE FACTORY MOUNTED VFDS WITH H-O-A.
 8. CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.
 9. INTERNAL VFDS SHALL BE RATED FOR TEMPERATURE RANGING FROM 0°F TO 100°F.

ROOFTOP UNIT SCHEDULE

| | | | | |
|--|-----------------------|-------------------|-------------------|---------------------|
| DESIGNATION | RTU-4 | RTU-5 | RTU-6 | RTU-7 |
| LOCATION | ROOF | ROOF | ROOF | ROOF |
| AREA SERVED | 2ND FLOOR COMMON AREA | MULTIPURPOSE 201 | MULTIPURPOSE 202 | MULTIPURPOSE 203 |
| MANUFACTURER | VTS | LG | LG | VTS |
| MODEL | AVS030 | ARNU723DDA4 | ARNU723DDA4 | AVS040 |
| NOMINAL CAPACITY (TONS) | - | 6 | 6 | - |
| WEIGHT OF UNIT (LBS) | 1,991 | 430 | 430 | 1,016 |
| SUPPLY DUCT CONNECTION | BOTTOM | BOTTOM | BOTTOM | BOTTOM |
| RETURN DUCT CONNECTION | BOTTOM | BOTTOM | BOTTOM | BOTTOM |
| OUTSIDE AIR (CFM) | 1,680 | 0 | 0 | 0 |
| SUPPLY FAN: | | | | |
| QUANTITY | 1 | 1 | 1 | 1 |
| TOTAL CFM | 2,680 | 1,800 | 1,800 | 2,400 |
| CFM FOR EACH FAN | 2,680 | 1,800 | 1,800 | 2,400 |
| ESP/TSP (IN H ₂ O) | 1/2.8 | 1/- | 1/- | 1/- |
| TYPE | DIRECT DRIVE PLENUM | DIRECT DRIVE PLUG | DIRECT DRIVE PLUG | DIRECT DRIVE PLENUM |
| HP FOR EACH FAN | 2 | 1 | 1 | 3 |
| CONTROL | VFD | ECM | ECM | VFD |
| RETURN FAN: | | | | |
| QUANTITY | 1 | | | |
| TOTAL CFM | 2,680 | | | |
| CFM FOR EACH FAN | 2,680 | | | |
| ESP/TSP (IN H ₂ O) | 1 / 2.3 | | | |
| TYPE | DIRECT DRIVE PLENUM | | | |
| HP FOR EACH FAN | 2 | | | |
| CONTROL | VFD | | | |
| COOLING PERFORMANCE: | | | | |
| E.A.T (DB / WB) | 78.5 / 64.7 | 72.4 / 60.9 | 73.7 / 61.9 | 73.5 / 61.3 |
| L.A.T (DB / WB) | 49 / 49 | 52.2 / | 53.1 / | 50.9 / 50 |
| TOTAL CAPACITY (MBH) | 120.3 | 57.2 | 61 | 75.1 |
| SENSIBLE CAPACITY (MBH) | 86.9 | 41.1 | 41.7 | 59.5 |
| REHEAT CAPACITY (MBH) | 76.2 | 44.3 | 42.6 | 62.5 |
| REHEAT (DB / WB) | 75 / 59.6 | 75 | 75 | 75 |
| HEATING PERFORMANCE: | | | | |
| E.A.T. / L.A.T. (DB) | 61.6 / 80 | 68 / 109.2 | 68 / 109.2 | 68 / 80 |
| HEATING CAPACITY INPUT (MBH) | 54.5 | 82.7 | 82.7 | 31.8 |
| SUMMER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB) | | | | |
| RETURN (EXHAUST AIR STREAM) | 77 / 63.5 | | | |
| EXHAUST (EXHAUST AIR STREAM) | 92 / 76.1 | | | |
| SUPPLY (SUPPLY AIR STREAM) | 79.4 / 65.5 | N/A | N/A | N/A |
| OUTDOOR (OUTDOOR AIR STREAM) | 95 / 78 | | | |
| WINTER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB) | | | | |
| RETURN (EXHAUST AIR STREAM) | 68 / 67 | | | |
| EXHAUST (EXHAUST AIR STREAM) | 10.6 / 10.6 | | | |
| SUPPLY (SUPPLY AIR STREAM) | 57.7 / 57.7 | N/A | N/A | N/A |
| OUTDOOR (OUTDOOR AIR STREAM) | 0 / 0 | | | |

LINES & FILTERS:
 CONDENSATE DRAIN LINE SIZE (IN) 1 1 1 1
 RETURN AIR FILTER TYPE 2" MERV 8 2" MERV 8 2" MERV 8 2" MERV 8
 QUANTITY AND SIZE (3) 15.5x24.5 (4) 16x20 (4) 16x20 (6) 14.25x17.35

| | | | | |
|--|--------------|--------------|--------------|--------------|
| ELECTRICAL DATA - SINGLE POINT POWER CONNECTION: | | | | |
| VOLTS / Ø / Hz | | 208 / 1 / 60 | 208 / 1 / 60 | 208 / 3 / 60 |
| MCA / MOCP (AMPS) | N/A | 8.3 / 15 | 8.3 / 15 | 11.3 / 20 |
| ELECTRICAL DATA - ENERGY WHEEL: | | | | |
| VOLTS / Ø / Hz | 208 / 3 / 60 | | | |
| MCA / MOCP (AMPS) | 0.8 / 15 | N/A | N/A | N/A |
| ELECTRICAL DATA - SUPPLY FAN: | | | | |
| VOLTS / Ø / Hz | 208 / 3 / 60 | | | |
| MCA / MOCP (AMPS) | 8.3 / 15 | N/A | N/A | N/A |
| ELECTRICAL DATA - EXHAUST FAN: | | | | |
| VOLTS / Ø / Hz | 208 / 3 / 60 | | | |
| MCA / MOCP (AMPS) | 8.3 / 15 | N/A | N/A | N/A |

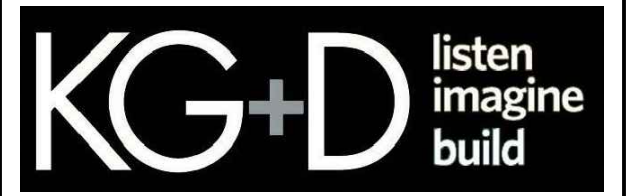
NOTES:
 1. PROVIDE RTU-4 AND RTU-7 WITH DUCT MOUNTED SMOKE DETECTORS.
 2. PROVIDE RTU-4, RTU-5, RTU-6, AND RTU-7 WITH INSULATED ROOF CURB WITH VIBRATION ISOLATION RAIL. ROOF CURB SHALL BE RETURN PLENUM.
 3. PROVIDE UNITS WITH DISCONNECT SWITCH. ALL OUTDOOR UNITS SHALL BE PROVIDED WITH RATED DISCONNECT SWITCH.
 4. PROVIDE RTU-4, RTU-5, RTU-6, AND RTU-7 WITH AIRSIDE ECONOMIZER. RTU-5, RTU-6, AND RTU-7 SHALL BE PROVIDED WITH POWER EXHAUST.
 5. PROVIDE RTU-4, RTU-5, RTU-6, AND RTU-7 WITH HOT GAS REHEAT.
 6. PROVIDE THE FOLLOWING OPTIONS FOR ALL UNITS:
 • HIGH STATIC DRIVE MOTOR. COORDINATE LEFT-RIGHT HAND FAN DRIVE IN FIELD.
 • 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND ECONOMIZER HOOD.
 • FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT.
 • UNIT SHALL BE MOUNTED ON VIBRATION ISOLATION ROOF CURB. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. LOWER PORTION OF VIBRATION CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.
 7. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR ALL UNITS:
 • UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
 • ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
 • SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT. UNIT-MOUNTED DISCONNECT SWITCH, AND FACTORY INSTALLED MOTOR STARTERS. VAV UNITS SHALL HAVE FACTORY MOUNTED VFDS WITH H-O-A. RTU-4 SHALL HAVE TRIPLE POINT EXTERNAL POWER CONNECTION AT UNIT.
 8. CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.
 9. INTERNAL VFDS SHALL BE RATED FOR TEMPERATURE RANGING FROM 0°F TO 100°F.

**HARRISON
RECREATION &
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CENTER**

New Construction - Phase 2

Town / Village of Harrison

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| | |
|--|--|
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| | olace.com |
| | |

CONSTRUCTION DOCUMENTS

| | | | | |
|--|---------------|--------------|--------------|-----------------|
| E.A.T (DB / WB) | 78.5 / 64.7 | 72.4 / 60.9 | 73.7 / 61.9 | 73.5 / 61.3 |
| L.A.T (DB / WB) | 49 / 49 | 52.2 / | 53.1 / | 50.9 / 50 |
| TOTAL CAPACITY (MBH) | 120.3 | 57.2 | 61 | 75.1 |
| SENSIBLE CAPACITY (MBH) | 86.9 | 41.1 | 41.7 | 59.5 |
| REHEAT CAPACITY (MBH) | 76.2 | 44.3 | 42.6 | 62.5 |
| REHEAT (DB / WB) | 75 / 59.6 | 75 | 75 | 75 |
| HEATING PERFORMANCE: | | | | |
| E.A.T. / L.A.T. (DB) | 61.6 / 80 | 68 / 109.2 | 68 / 109.2 | 68 / 80 |
| HEATING CAPACITY INPUT (MBH) | 54.5 | 82.7 | 82.7 | 31.8 |
| SUMMER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB) | | | | |
| RETURN (EXHAUST AIR STREAM) | 77 / 63.5 | | | |
| EXHAUST (EXHAUST AIR STREAM) | 92 / 76.1 | | | |
| SUPPLY (SUPPLY AIR STREAM) | 79.4 / 65.5 | N/A | N/A | N/A |
| OUTDOOR (OUTDOOR AIR STREAM) | 95 / 78 | | | |
| WINTER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB) | | | | |
| RETURN (EXHAUST AIR STREAM) | 68 / 67 | | | |
| EXHAUST (EXHAUST AIR STREAM) | 10.6 / 10.6 | | | |
| SUPPLY (SUPPLY AIR STREAM) | 57.7 / 57.7 | N/A | N/A | N/A |
| OUTDOOR (OUTDOOR AIR STREAM) | 0 / 0 | | | |
| LINES & FILTERS: | | | | |
| CONDENSATE DRAIN LINE SIZE (IN) | 1 | 1 | 1 | 1 |
| RETURN AIR FILTER TYPE | 2" MERV 8 | 2" MERV 8 | 2" MERV 8 | 2" MERV 8 |
| QUANTITY AND SIZE | (3) 15.5x24.5 | (4) 16x20 | (4) 16x20 | (6) 14.25x17.35 |
| ELECTRICAL DATA - SINGLE POINT POWER CONNECTION: | | | | |
| VOLTS / Ø / Hz | | 208 / 1 / 60 | 208 / 1 / 60 | 208 / 3 / 60 |
| MCA / MOCP (AMPS) | N/A | 8.3 / 15 | 8.3 / 15 | 11.3 / 20 |
| ELECTRICAL DATA - ENERGY WHEEL: | | | | |
| VOLTS / Ø / Hz | 208 / 3 / 60 | | | |
| MCA / MOCP (AMPS) | 0.8 / 15 | N/A | N/A | N/A |
| ELECTRICAL DATA - SUPPLY FAN: | | | | |
| VOLTS / Ø / Hz | 208 / 3 / 60 | | | |
| MCA / MOCP (AMPS) | 8.3 / 15 | N/A | N/A | N/A |
| ELECTRICAL DATA - EXHAUST FAN: | | | | |
| VOLTS / Ø / Hz | | | | |

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

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CONSTRUCTION DOCUMENTS

| AIR HANDLER SCHEDULE | | |
|--|-----------------------|-------------------|
| DESIGNATION | AH-1 | AH-2 |
| LOCATION | MECH B06 | MECH 122 |
| AREA SERVED | 2ND FLOOR COMMON AREA | MULTIPURPOSE 201 |
| MANUFACTURER | VTS | VTS |
| MODEL | AVS040V | AVS020V |
| NOMINAL CAPACITY (TONS) | - | - |
| WEIGHT OF UNIT (LBS) | 717 | 523 |
| SUPPLY DUCT CONNECTION | TOP | TOP |
| RETURN DUCT CONNECTION | FRONT | FRONT |
| OUTSIDE AIR (CFM) | 550 | 1,150 |
| SUPPLY FAN: | | |
| QUANTITY | 1 | 1 |
| TOTAL CFM | 3,810 | 1,800 |
| CFM FOR EACH FAN | 3,810 | 1,800 |
| ESP/TPS (IN H ₂ O) | 1 / - | 1 / - |
| TYPE | DIRECT DRIVE PLENUM | DIRECT DRIVE PLUG |
| HP FOR EACH FAN | 3 | 1.5 |
| CONTROL | VFD | VFD |
| COOLING PERFORMANCE: | | |
| E.A.T (DB / WB) | 77.4 / 64.5 | 89.1 / 73.8 |
| L.A.T (DB / WB) | 55.8 / 54 | 55.2 / 55.2 |
| TOTAL CAPACITY (MBH) | 118.9 | 112.7 |
| SENSIBLE CAPACITY (MBH) | 90.4 | 67.6 |
| REHEAT CAPACITY (MBH) | 76.2 | 38.5 |
| REHEAT (DB / WB) | 75 / 59.6 | 75 |
| HEATING PERFORMANCE: | | |
| E.A.T. / L.A.T. (DB) | 60 / 81 | 23 / 80 |
| HEATING CAPACITY INPUT (MBH) | 87.6 | 111.2 |
| LINES & FILTERS: | | |
| CONDENSATE DRAIN LINE SIZE (IN) | 1 | 1 |
| RETURN AIR FILTER TYPE | 2" MERV 8 | 2" MERV 8 |
| QUANTITY AND SIZE | (6) 14.25x17.35 | (2) 19.5x19.5 |
| ELECTRICAL DATA - SINGLE POINT POWER CONNECTION: | | |
| VOLTS / Ø / Hz | 208 / 3 / 60 | 208 / 3 / 60 |
| MCA / MOCQ (AMPS) | 11.3 / 20 | 5.6 / 15 |

| OUTDOOR AIR | | | |
|------------------|--------------------------|-----------|-----------------|
| UNIT DESIGNATION | AREA SERVED | AREA (SF) | OUTDOOR AIR CFM |
| VRF-1 / DOAS-1 | OPEN OFFICE 103 | 433 | 51 |
| VRF-1 / DOAS-1 | COPY/PRINT 103A | 58 | 4 |
| VRF-1 / DOAS-1 | CONF 103B | 320 | 132 |
| VRF-2 / DOAS-1 | RECREATION GAME ROOM 106 | 1,160 | 488 |
| VRF-3 / DOAS-1 | COMPUTER/GAMING 107 | 668 | 426 |
| VRF-4 / DOAS-1 | ARTS/CRAFTS 108 | 952 | 597 |
| VRF-4 / DOAS-1 | STOR 108A | 146 | 11 |
| VRF-5 / DOAS-1 | MEETING 112 | 217 | 85 |
| VRF-6 / DOAS-1 | OPEN OFFICE 212 | 247 | 31 |
| VRF-6 / DOAS-1 | OFFICE 212A | 152 | 24 |
| VRF-6 / DOAS-1 | CONF 212B | 164 | 69 |
| RTU-5 / DOAS-2 | MULTIPURPOSE 201 | 930 | 463 |
| RTU-6 / DOAS-2 | MULTIPURPOSE 202 | 1,071 | 681 |
| RTU-7 / DOAS-2 | MULTIPURPOSE 203 | 1,353 | 788 |
| RTU-7 / DOAS-2 | PANTRY 206 | 207 | 74 |
| AH-1 | VEST 100 | 166 | 12 |
| AH-1 | LOBBY 101 | 1,539 | 228 |
| AH-1 | JAN 104 | 51 | 0 |
| AH-1 | TOILET 105 | 58 | 0 |
| AH-1 | CORR C101 | 898 | 67 |
| AH-1 | CORR C102 | 138 | 10 |
| AH-1 | CORR C103 | 143 | 11 |
| AH-1 | WOMEN 109 | 229 | 0 |
| AH-1 | MEN 110 | 227 | 0 |
| AH-1 | EAST CORRIDOR 114 | 915 | 70 |
| RTU-4 | VIEWING 200 | 979 | 1,451 |
| RTU-4 | CORR C201 | 344 | 26 |
| RTU-4 | CORR 204 | 733 | 55 |
| RTU-4 | STOR 205B | 31 | 2 |
| RTU-4 | WOMEN 207 | 173 | 0 |
| RTU-4 | MEN 208 | 161 | 0 |
| RTU-4 | JAN 210 | 41 | 0 |
| RTU-4 | TOILET 211 | 59 | 0 |
| RTU-3 | FITNESS 123 | 3,268 | 1,100 |
| RTU-3 | STOR 123A | 83 | 5 |
| RTU-1 / RTU-2 | GYM | 13,725 | 6,900 |

| FAN SCHEDULE | | | | | | | | | |
|--------------------------|-------------|-------------|-----------|----------|-------------|-------------|-------------|-----------------------|--------------------------|
| DESIGNATION | EF-1 | EF-2 | EF-3 | EF-4 | EF-5 | EF-6 | TX-1 | TX-2 | TX-3 |
| LOCATION | MECH B06 | MECH B06 | SEE PLANS | ROOF | MECH B06 | ROOF | ROOF | ROOF | ROOF |
| AREA SERVED | PARKING B01 | PARKING B01 | SEE PLANS | PANTRY | FIRST FLOOR | LOCKER ROOM | LOCKER ROOM | TOILET 105 JAN 104 | FIRST FLOOR BATHROOMS |
| MODEL | XD100EC | XD200EC | SQ-90-VG | G-097-VG | SQ-160-VG | G-095-VG | G-140-VG | G-097-VG | G-098-VG |
| CFM | 500 | 3400 | 250 | 265 | 2700 | 650 | 1150 | 100 | 400 |
| BHP | 0.127 | 0.662 | 0.02 | 0.11 | 0.51 | 0.13 | 0.3 | 0.03 | 0.14 |
| HP | 1/4 | 1 | 1/10 | 1/4 | 3/4 | 1/8 | 1/2 | 1/4 | 1/4 |
| FAN RPM | 1800 | 910 | 1111 | 1636 | 1121 | 1577 | 1160 | 1121 | 1551 |
| SP (IN H ₂ O) | 0.5 | 0.5 | 0.25 | 0.53 | 0.5 | 0.5 | 0.82 | 0.5 | 0.82 |
| VOLTS/Ø/Hz | 115/1/60 | 208/1/60 | 115/1/60 | 115/1/60 | 115/1/60 | 115/1/60 | 115/1/60 | 115/1/60 | 115/1/60 |
| INTERLOCK | - | - | - | - | - | - | - | - | - |

NOTES:
1. FANS BASED ON GREENHECK. EF-1 AND EF-2 BASED ON ACME.
2. FURNISH MOTOR STARTERS AND DISCONNECT SWITCHES FOR EACH FAN.
3. FURNISH RUBBER IN SHEAR OR SPRING VIBRATION ISOLATORS.
4. SEE PLAN FOR INLET AND DISCHARGE ORIENTATION.
5. PROVIDE BACKDRAFT DAMPER FOR EF-4, EF-6, TX-1, TX-2, TX-3.

| PUMP SCHEDULE | | |
|--|-------------------------|---------------------------------|
| DESIGNATION | GW-P-1 / 2 | P-1, 2, 3, 4, 5, 6, 7, 8, 9, 10 |
| LOCATION | MECH B06 | MECH B06 |
| SYSTEM SERVED | GEOTHERMAL WELLS | WCHPS |
| ARRANGEMENT | INLINE | INLINE |
| MANUFACTURER | TACO | TACO |
| TYPE | VERTICAL, SPLIT COUPLED | CIRCULATING |
| MODEL | SKS3006D | IL132 |
| IMPELLER DIA. (IN.) | 6.25 | - |
| GPM | 230 | 36 |
| TOTAL DYNAMIC HEAD (FT H ₂ O) | 80 | 20 |
| RPM | 3500 | 1725 |
| NPSH (FT. H ₂ O) | 12.2 | - |
| MOTOR HP | 15 | 1/2 |
| VOLTAGE/Ø/Hz | 208/3/60 | 120/1/60 |
| STARTER TYPE | VFD | - |
| STARTER LOCATION | INTEGRAL | - |
| DISCONNECT SWITCH AT PUMP (Y/N) | Y | Y |
| INTERLOCK | - | - |

NOTES:
1. ALL PUMPS SHALL BE CAST IRON BODY, BRONZE FITTED, BRONZE IMPELLER. REFER TO SPECIFICATION FOR PUMP CONSTRUCTION.
2. FLUID SHALL BE 20% PROPYLENE GLYCOL SOLUTION.
3. ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY.
4. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED AND APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
5. MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

| LOUVER SCHEDULE | | | | | |
|-----------------------------|--------------|-----------|-----------|---------|---------|
| DESIGNATION | L-1 | L-2 | L-3 | L-4 | L-5 |
| LOCATION | MECH 122 | MECH B06 | MECH B06 | GARAGE | GARAGE |
| AREA SERVED | LOCKER ROOMS | SEE PLANS | SEE PLANS | GARAGE | GARAGE |
| MODEL | ESD-635 | ESD-635 | ESD-635 | ESD-635 | ESD-435 |
| FREE AREA (SF) | 3.7 | 20.4 | 20.4 | 8.7 | 8.1 |
| MAXIMUM FACE VELOCITY (FPM) | 500 | 500 | 700 | 500 | 700 |
| DIMENSIONS (WxH)(IN) | 76x18 | 66x72 | 66x72 | 72x32 | 44x48 |

NOTES:
1. LOUVERS BASED ON GREENHECK.
2. COORDINATE EXACT LOUVER SIZE WITH ARCHITECTURAL PLANS AND WITH WALL OPENING IN FIELD.
3. ALL LOUVERS SHALL BE STATIONARY, DRAINABLE BLADE.
4. CUSTOM COLORED LOUVERS SHALL BE SELECTED BY ARCHITECT. SUBMIT COLOR CHART FOR REVIEW.
5. FURNISH 1/2" GALVANIZED BIRD SCREEN FOR ALL LOUVERS.
6. BLANK OFF UNUSED SECTIONS OF LOUVERS WITH SHEET METAL PANELS. PAINT PANELS TO MATCH LOUVER AND INSULATE WITH 1" RIGID BOARD INSULATION.

| AIR PURIFICATION SCHEDULE | | | | | | | | |
|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| DESIGNATION | AP-1 | AP-2 | AP-3 | AP-4 | AP-5 | AP-6 | AP-7 | AP-8 |
| MODEL | 500EC | 500EC | 500FC | 500FC | M1002 | M1002 | 500EC | 500EC |
| TUBE SIZE | E | E | F | F | E | E | E | E |
| ASSOCIATED HVAC UNIT | DOAS-2 | DOAS-1 | RTU-1 | RTU-2 | RTU-3 | RTU-4 | AH-1 | AH-1 |
| ELECTRICAL DATA: | | | | | | | | |
| VOLTS / Ø / Hz | 120/1/60 | 120/1/60 | 120/1/60 | 120/1/60 | 120/1/60 | 120/1/60 | 120/1/60 | 120/1/60 |
| AMPS | 0.13 | 0.13 | 0.15 | 0.15 | 0.4 | 0.4 | 0.13 | 0.13 |

NOTES:
1. AIR PURIFICATION BASED ON ATMOS AIR.
2. AIR PURIFICATION SYSTEM SHALL BE MOUNTED ON SUPPLY AIR DUCT OR ON HVAC UNIT. REFER TO DRAWINGS FOR EXACT LOCATION.
3. AIR PURIFICATION SYSTEM SHALL BE INTERLOCKED WITH ASSOCIATED HVAC UNIT.
4. CONTRACTOR SHALL PROVIDE MOUNTING BRACKET AS NEEDED FOR INSTALLATION. COORDINATE WITH FINAL MOUNTING LOCATION.
5. CONTRACTOR SHALL PROVIDE A WEATHERPROOF ENCLOSURE WITH AN ACCESS PANEL OVER THE ATMOS AIR ION GENERATOR WHEN INSTALLED OUTDOORS.

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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

No. Date Issue

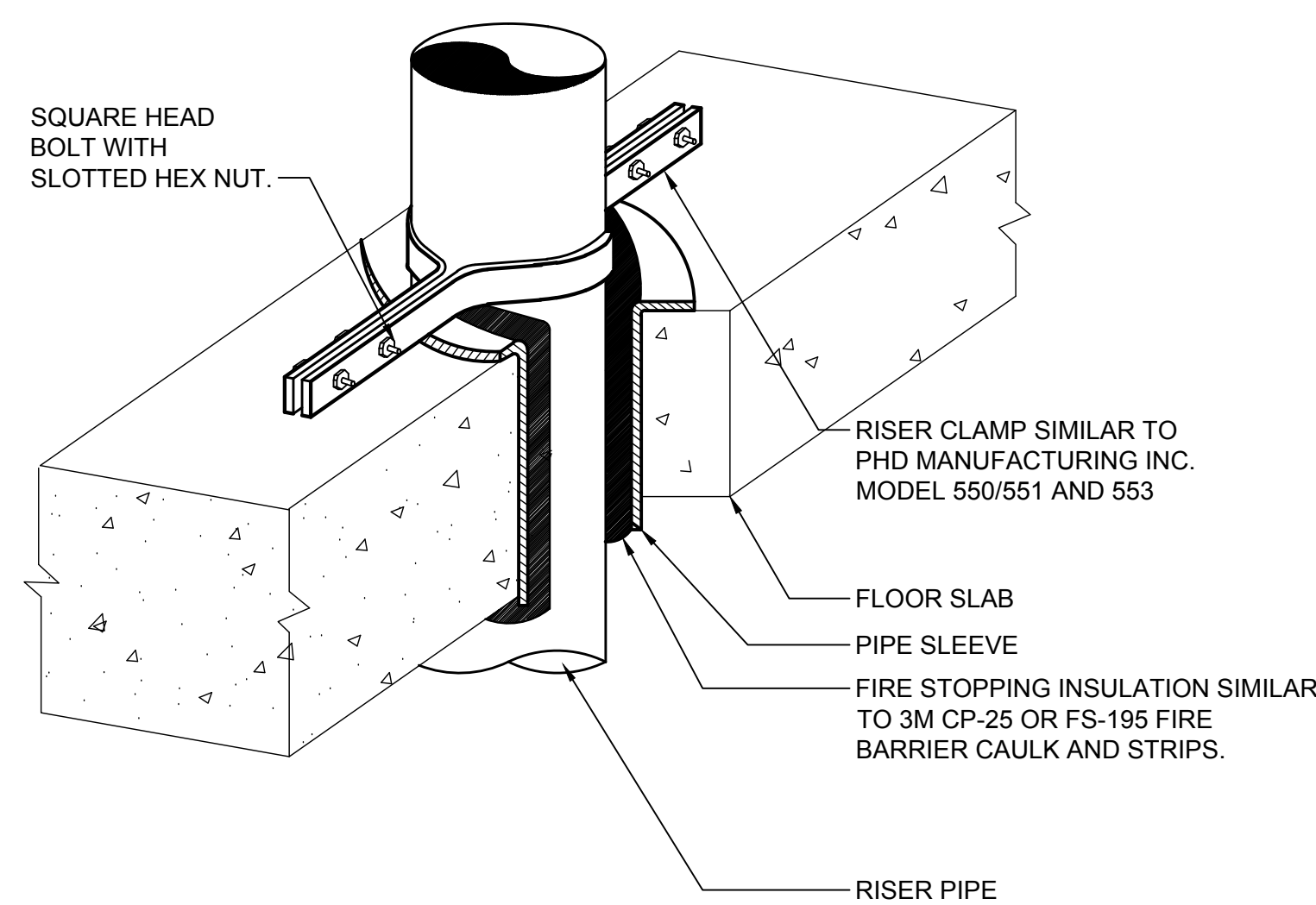
Sheet Title

MECHANICAL EQUIPMENT, NOTES & SCHEDULES

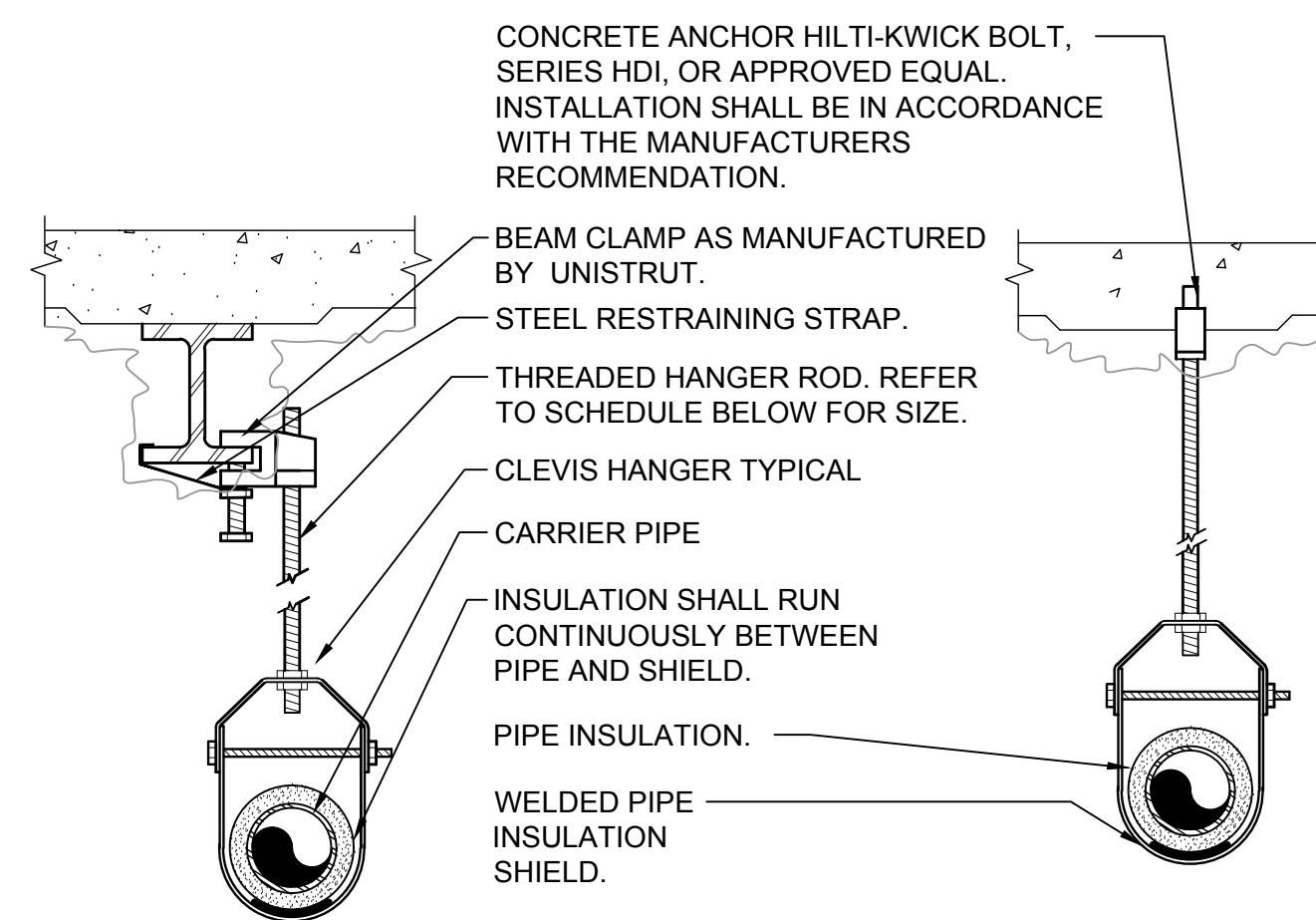
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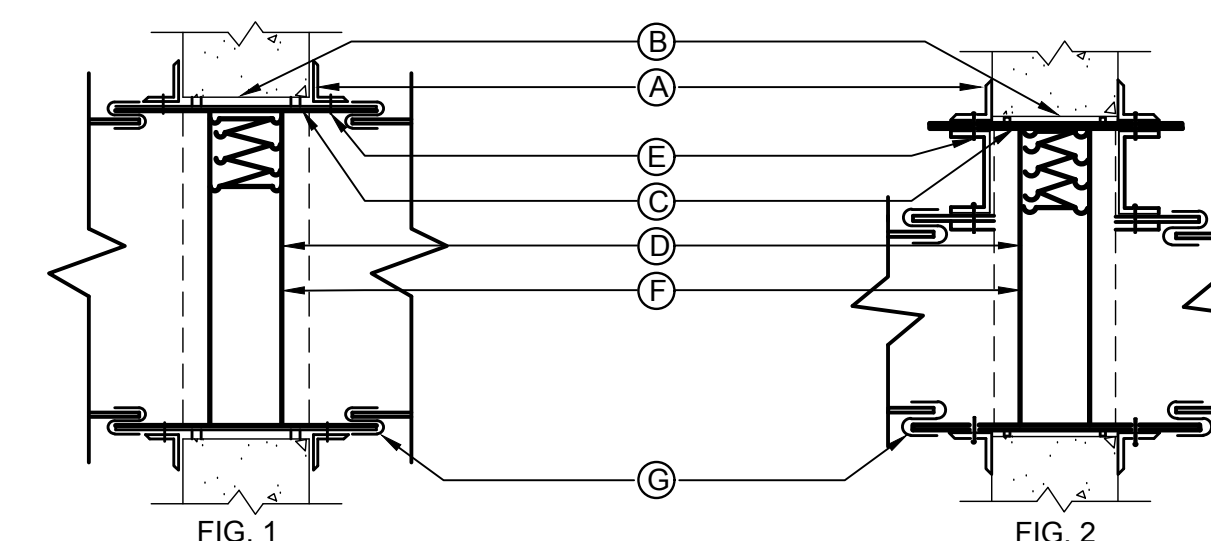
8 VERTICAL PIPE SUPPORT DETAIL
SCALE: NONE



| PIPE HANGER SCHEDULE | | | | | |
|----------------------|---------|-----------|-------|------|--------|
| PIPE DIA. | 3/4"-2" | 2 1/2"-3" | 4"-5" | 6" | 8"-12" |
| HANGER DIA. | 3/8" | 1/2" | 5/8" | 3/4" | 7/8" |

- NOTES:
- 1.) CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
 - 2.) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
 - 3.) FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
 - 4.) ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
 - 5.) FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
 - 6.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
 - 7.) ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARD AND APPEALS, (BSA) APPROVAL.

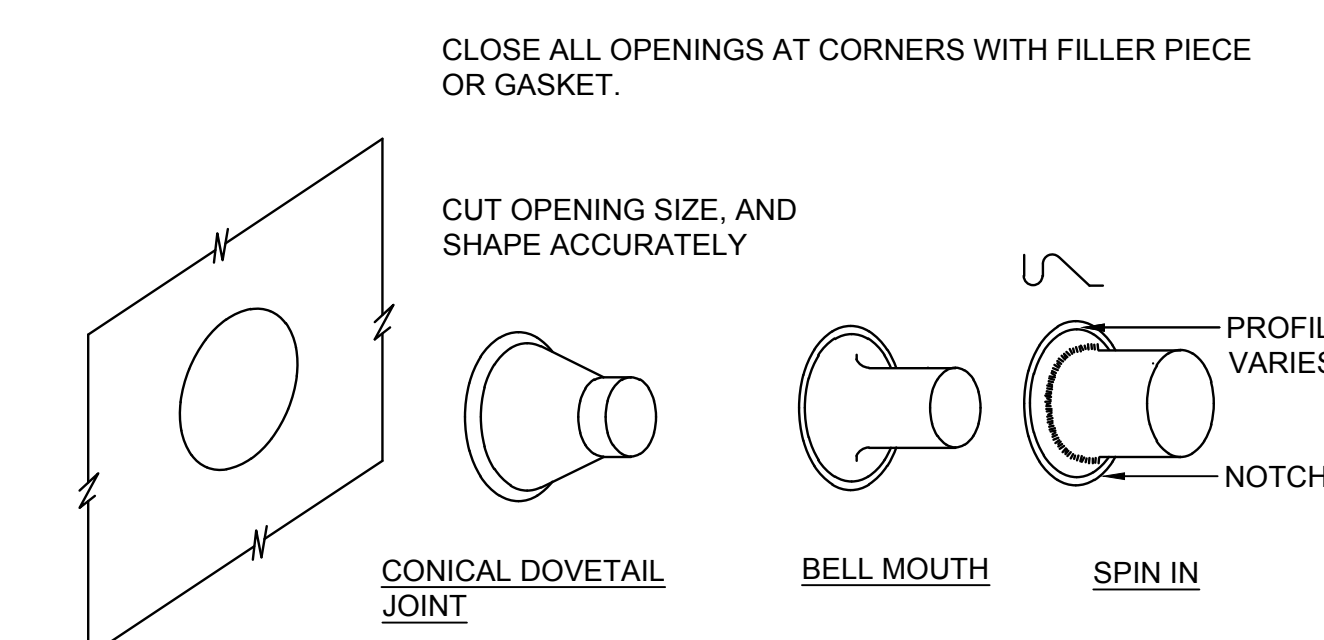
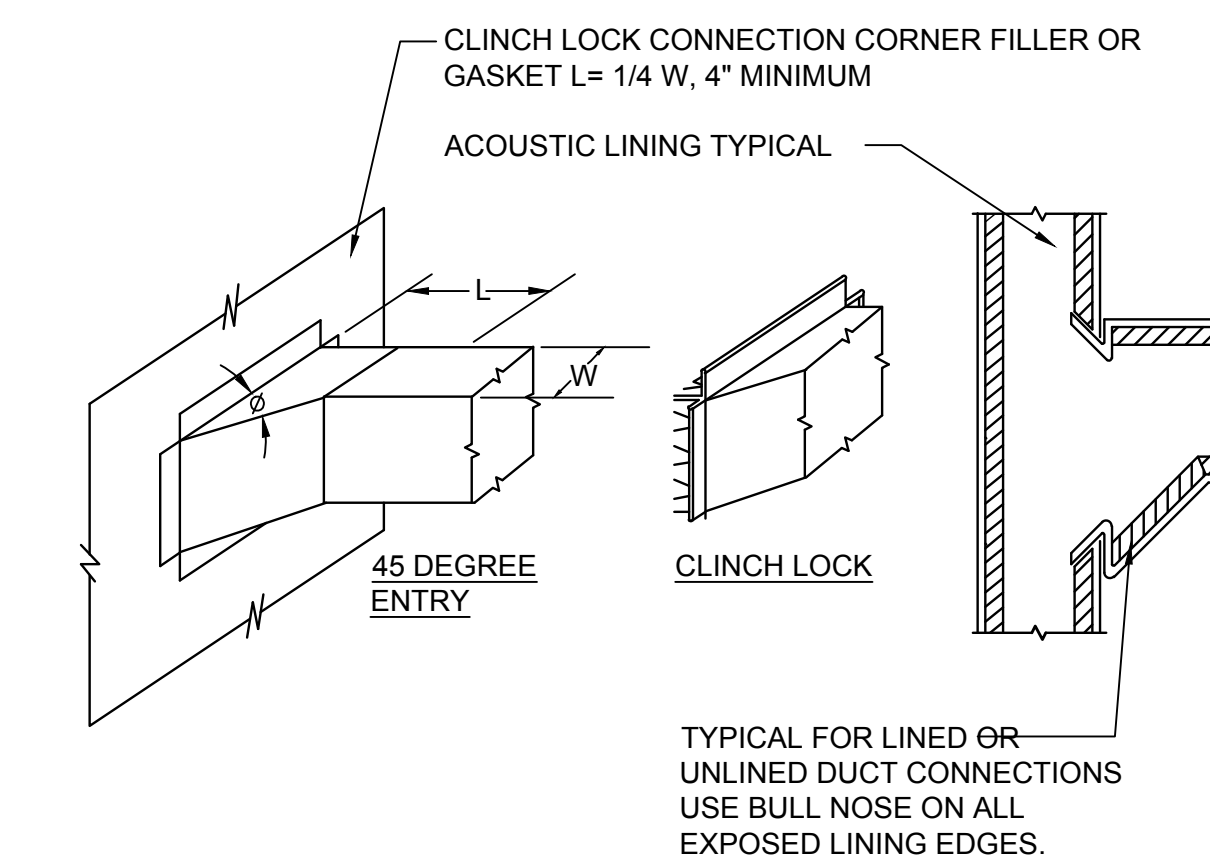
6 PIPE HANGER DETAIL
SCALE: NONE



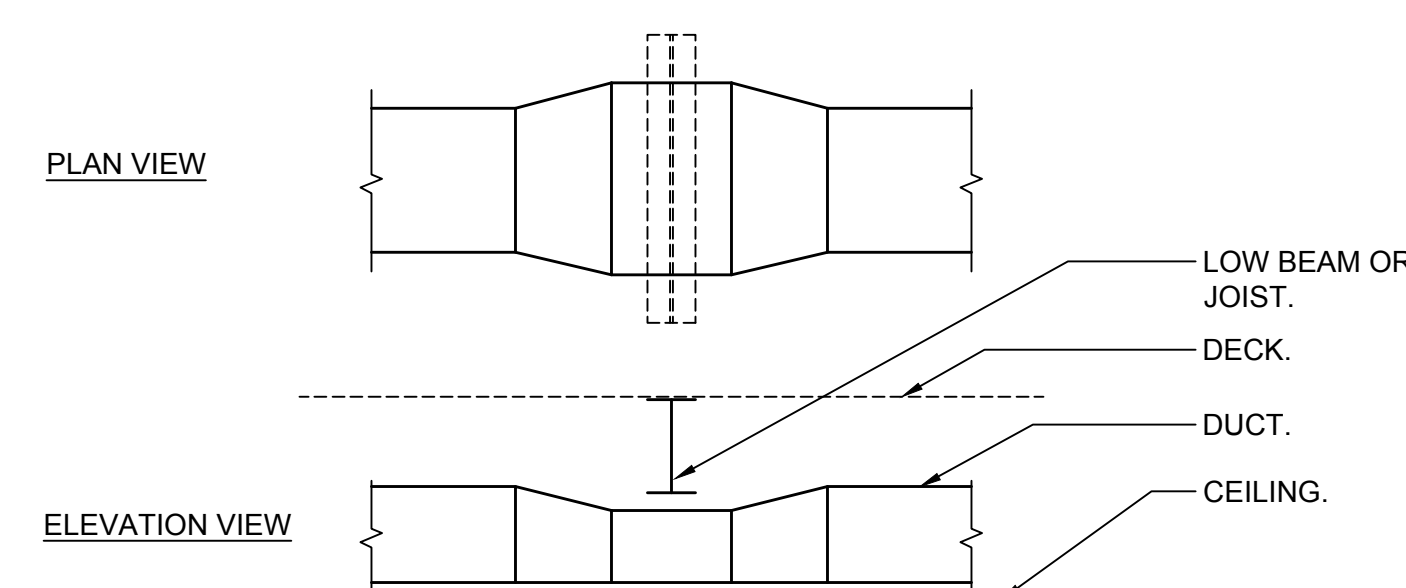
- NOTES:
- A.) RETAINING ANGLES SHALL BE A MINIMUM 1-1/2"x1-1/2"x16 GAUGE AND MUST OVERLAP THE STRUCTURAL OPENING BY A MINIMUM OF 1".
 - B.) CLEARANCE BETWEEN SLEEVE AND OPENING SHALL BE 1/8" PER LINEAR FOOT, AS PER SMACNA FIG. 2-1.
 - C.) STEEL SLEEVE SHALL BE AS PER SMACNA TABLE 2-2.
 - D.) U.L. APPROVED FIRE DAMPER.
 - E.) SECURE RETAINING ANGLES TO SLEEVE ONLY AT 8" CENTERS AS PER SMACNA FIG. 2-1.
 - F.) SECURE DAMPER TO SLEEVE AT 8" CENTERS AS PER SMACNA FIG. 2-1.
 - G.) CONNECT DUCT TO SLEEVE WITH BREAK-AWAY CONNECTION AS PER SMACNA FIG. 2-2.

- 1.) FIRE DAMPERS TO BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A, UL LABELS AND THE LATEST ISSUE OF S.M.A.C.N.A. CHAPTER 2.
- 2.) CURTAIN TYPE FIRE DAMPERS SHOWN, MULTI-BLADE PIVOTED FIRE DAMPERS MEETING THE ABOVE STANDARD WILL BE ACCEPTABLE.
- 3.) PROVIDE ACCESS DOORS. INSTALL (1) AD FOR EACH FIRE DAMPER AS PER SMACNA FIG. 6-1.
- 4.) FOR DUCT 12" OR LESS IN DEPTH, FIRE DAMPER SHALL BE OUT OF THE AIR STREAM. REFER TO FIGURE 2.
- 5.) FIRE DAMPERS SHALL CONFORM TO N.Y.C. MANUFACTURING B.S. AND A. NUMBER 100-65 SM.

4 SHUTTER TYPE FIRE DAMPER AND SLEEVE DETAIL
SCALE: NONE

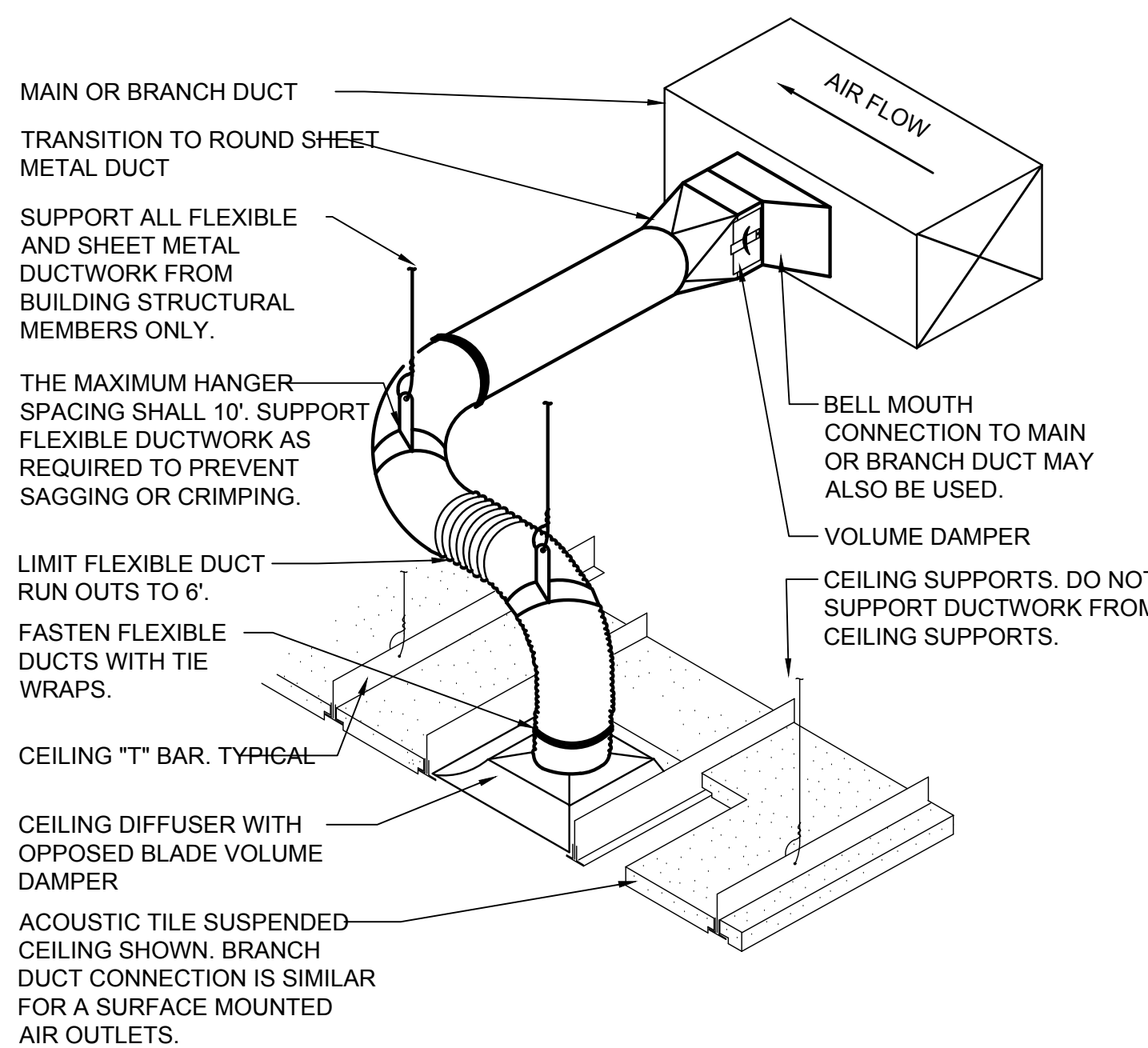


2 DUCT BRANCH CONNECTION DETAIL
SCALE: NONE



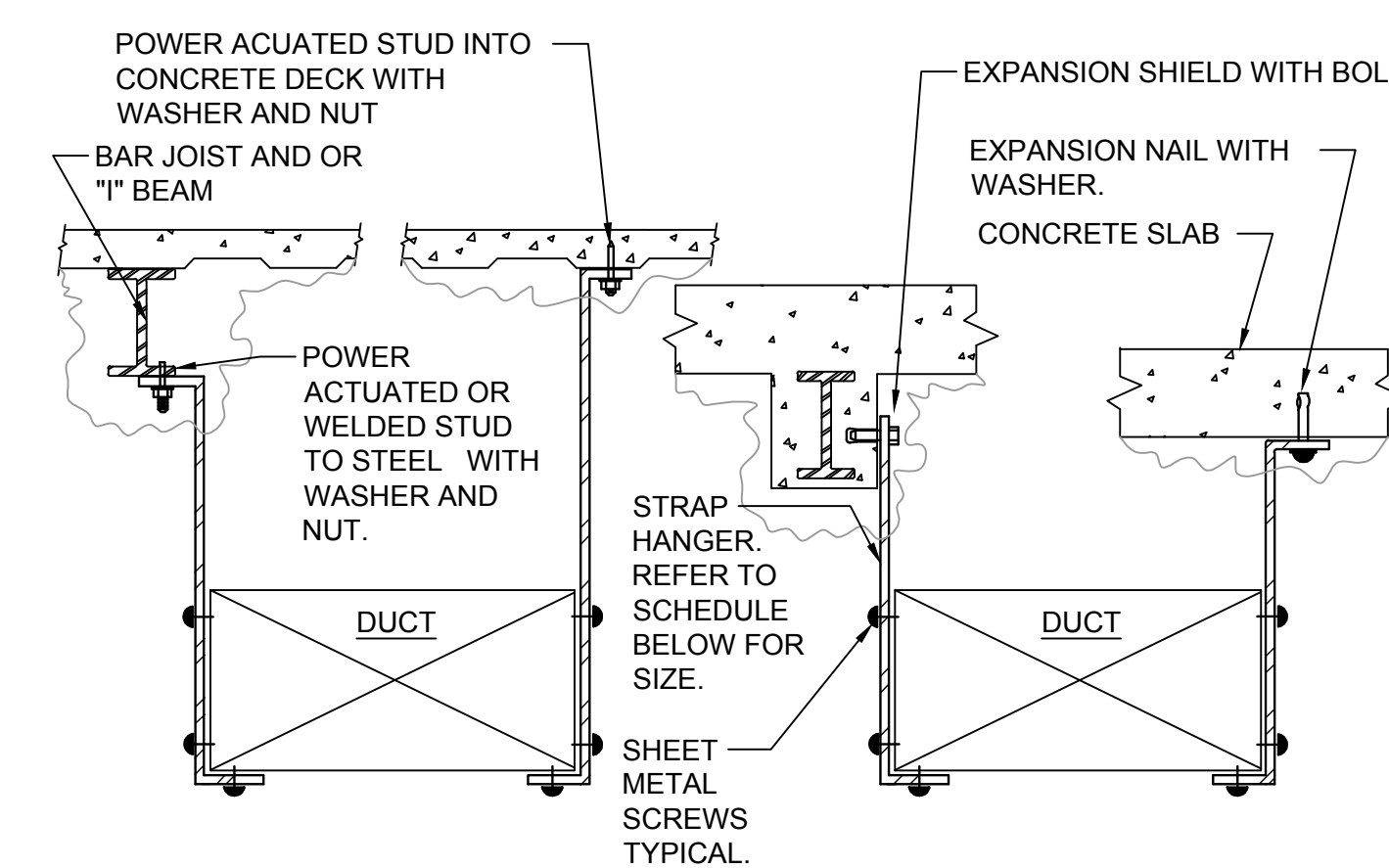
- NOTES:
- 1.) WHERE INDICATED ON THE PLANS, OR REQUIRED DUE TO FIELD CONDITIONS, THE CONTRACTOR SHALL ROUTE DUCTWORK UNDER LOW BEAMS OR JOISTS IN THE MANNER INDICATED ABOVE.
 - 2.) REDUCE DUCT HEIGHT AT THE CROSSING IN ORDER TO FIT UNDER THE BEAM OR JOIST.
 - 3.) INCREASE DUCT WIDTH AT THE CROSSING IN ORDER TO MAINTAIN THE SAME CROSS SECTIONAL AREA.
 - 4.) USE SMACNA APPROVED TRANSITIONS.

7 DUCT UNDER LOW BEAM DETAIL
SCALE: NONE



- NOTES:
- 1.) THIS BRANCH DUCT ARRANGEMENT IS SIMILAR FOR PLENUM SLOT DIFFUSERS.

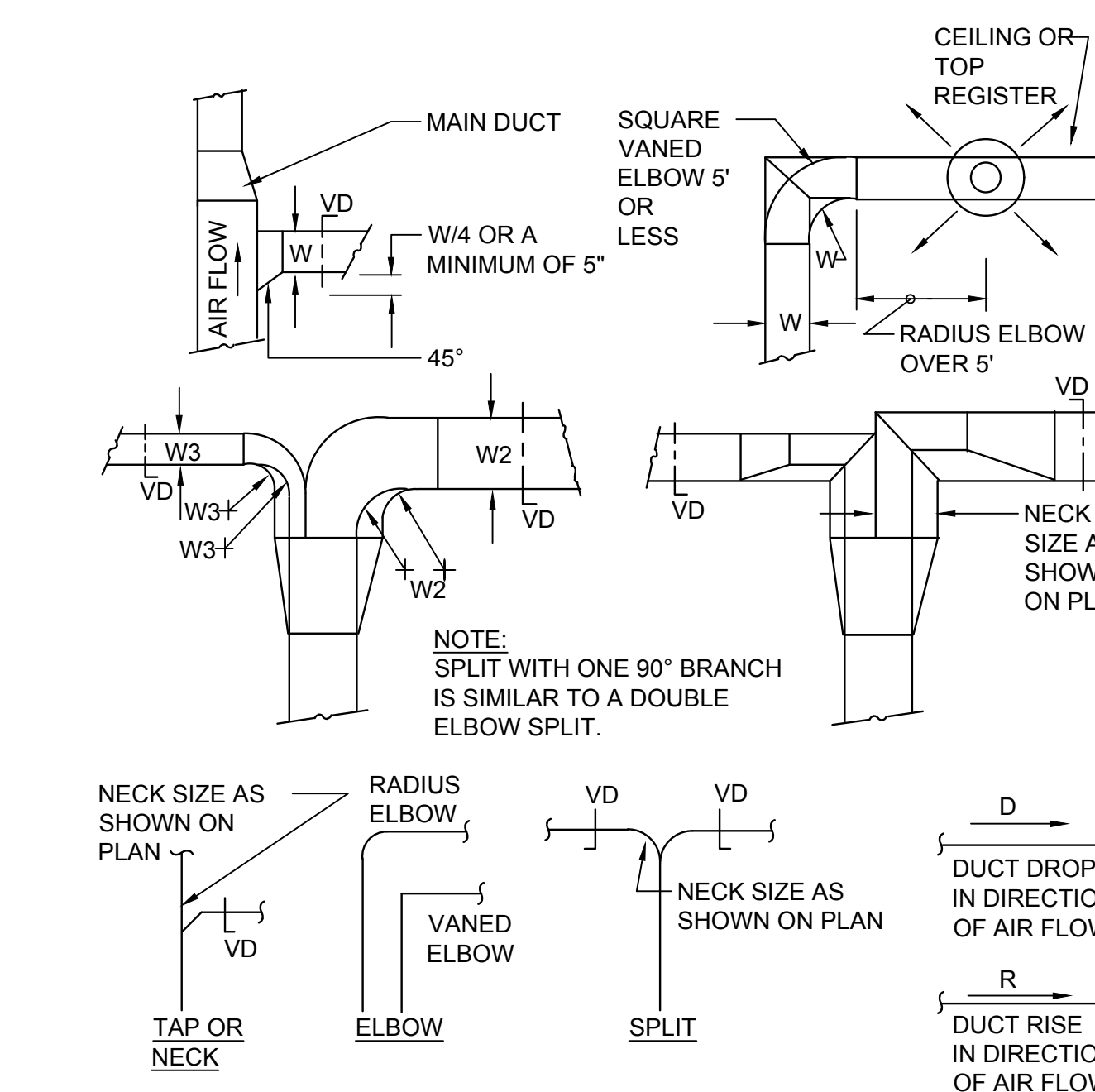
5 FLEXIBLE DUCT CONNECTION DETAIL
SCALE: NONE



- NOTES:
- 1.) FOR DUCTS OVER 49" WIDE, THE STRAP HANGER SHALL BE TURNED UNDER THE BOTTOM OF THE DUCT.
 - 2.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
 - 3.) ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARD AND APPEALS, (BSA) APPROVAL.

| HANGER STRAP SCHEDULE | | |
|-----------------------|-------------|-----------------|
| DUCT SIZE | HANGER SIZE | MAXIMUM SPACING |
| UP TO 2 SQ.FT. | 1" X 1/16" | 8'-0" |
| 2 SQ.FT. TO 4 SQ.FT. | 1" X 1/8" | 8'-0" |
| 4 SQ.FT. TO 10 SQ.FT. | 1" X 1/8" | 6'-0" |
| OVER 10 SQ.FT. | 1" X 1/8" | 4'-0" |

3 DUCT HANGER DETAIL
SCALE: NONE



- NOTES:
- 1.) SINGLE LINE REPRESENTATIONS REFER TO DOUBLE LINE DETAILS.
 - 2.) USE RADIUS OR SQUARE VANED BENDS FOR BOTH ELBOWS AND SPLITS AS DETERMINED BY SPACE LIMITATIONS, AND THE DISTANCE FROM AIR OUTLETS.
 - 3.) ALL SQUARE ELBOWS SHALL HAVE FACTORY TURNING VANES, AND MAINTAIN A CONSTANT WIDTH.
 - 4.) WHERE DUCTS SPLIT, THE SOLID LINE REPRESENTATION IS PREFERRED, UNLESS PRELUDED BY SPACE, OR OTHERWISE INDICATED.
 - 5.) USE ELBOW SPLIT FOR BRANCH CONNECTIONS ONLY WHERE NECK SIZE IS GIVEN.

1 DUCT BRANCH TAKE - OFF DETAIL
SCALE: NONE

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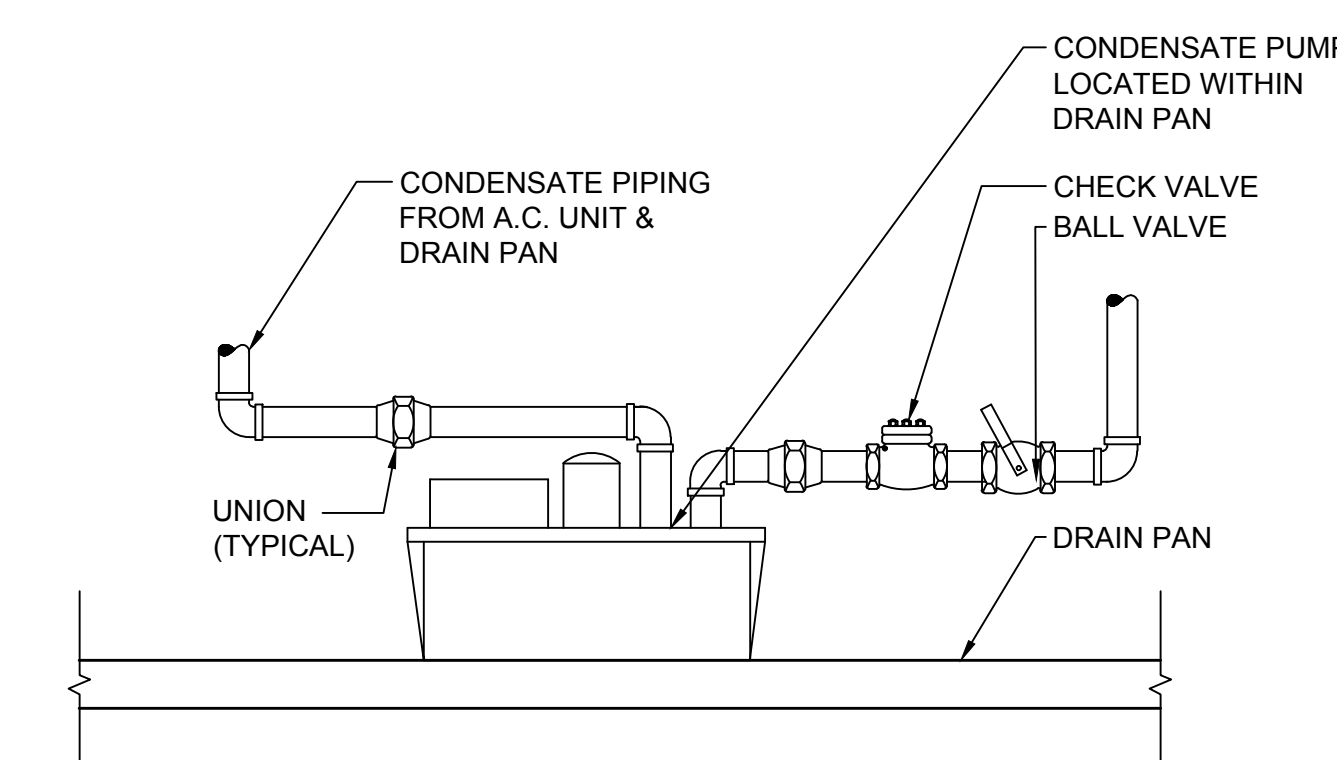
**MECHANICAL
DETAILS**

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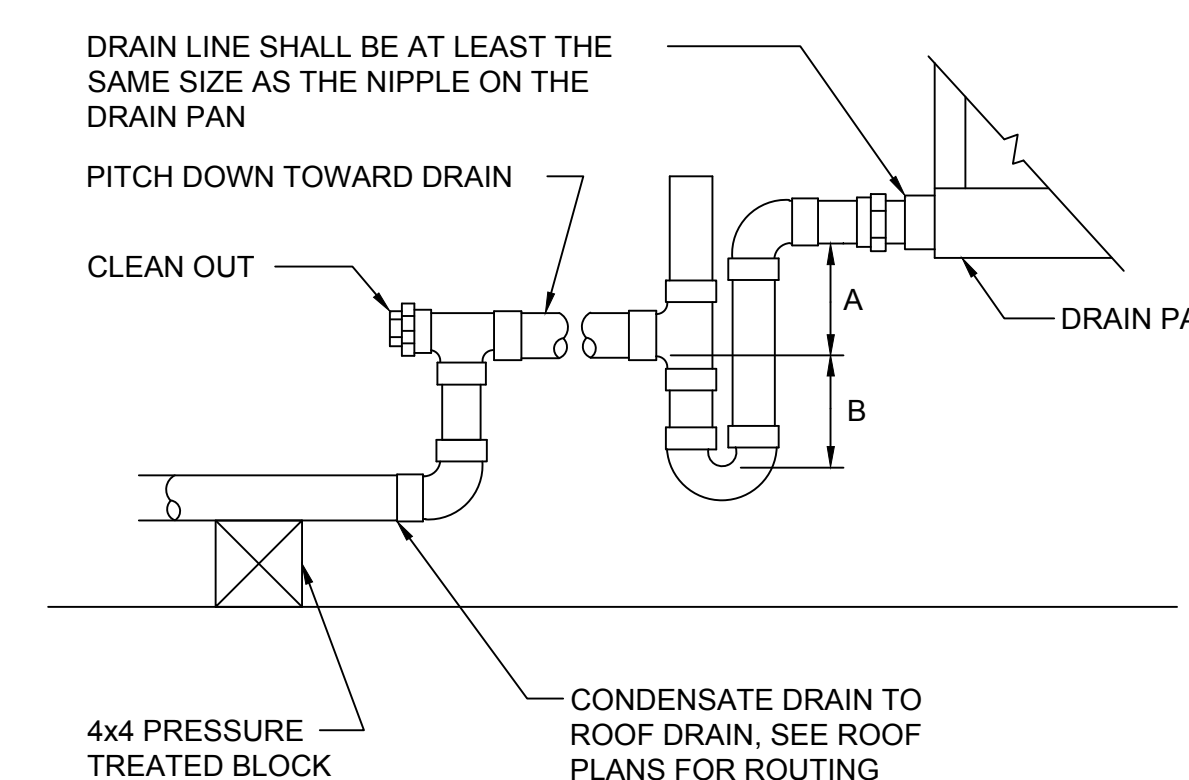
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Sheet Number

M-701



2 CONDENSATE PUMP DETAIL
SCALE: NONE

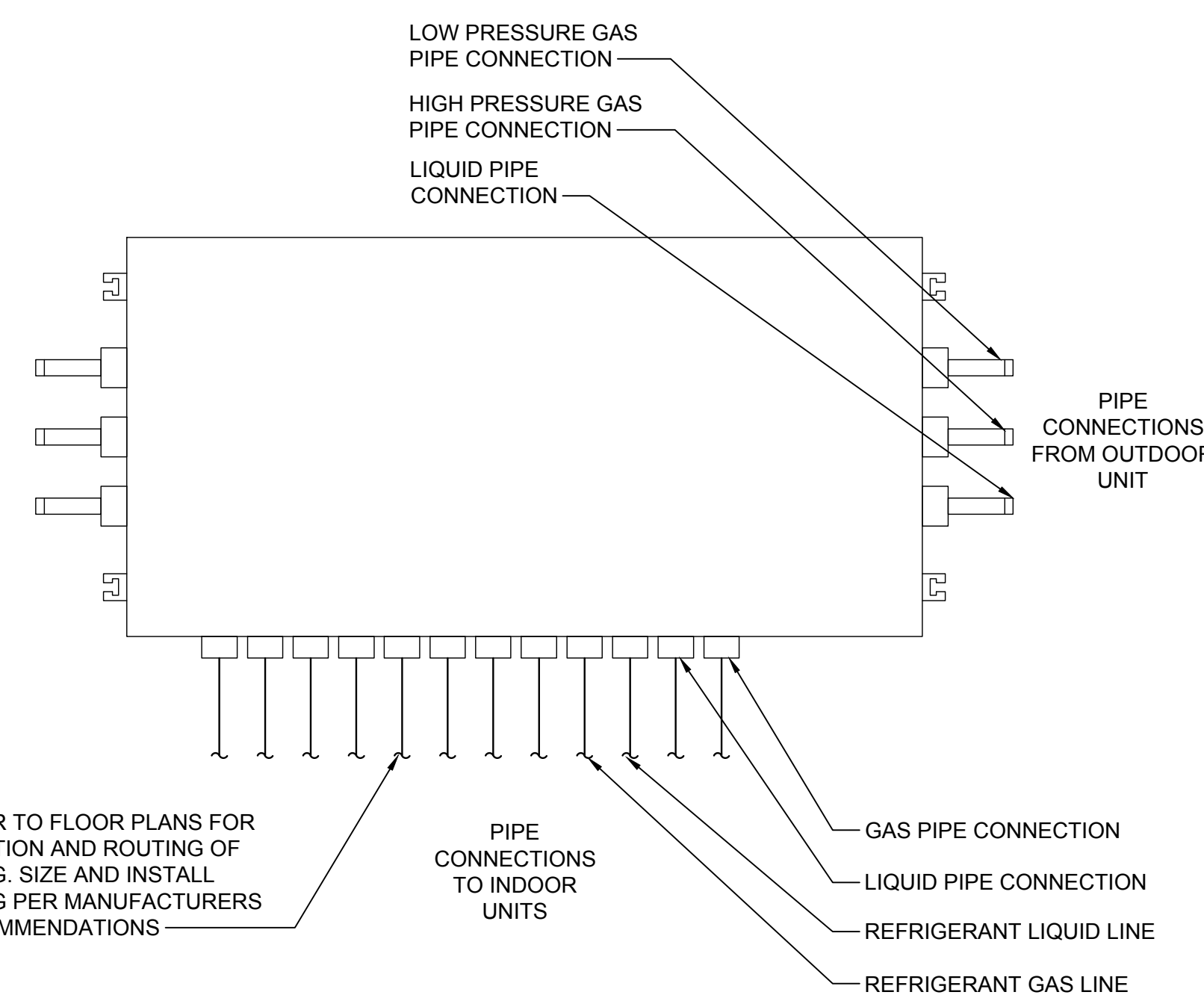


DESIGNER'S NOTE:

| UNIT TYPE | A | B |
|-----------|--------------------|----|
| DRAW THRU | 2" (50 MM) PLUS X | X |
| BLOW THRU | 1" (25 MM) MINIMUM | 2X |

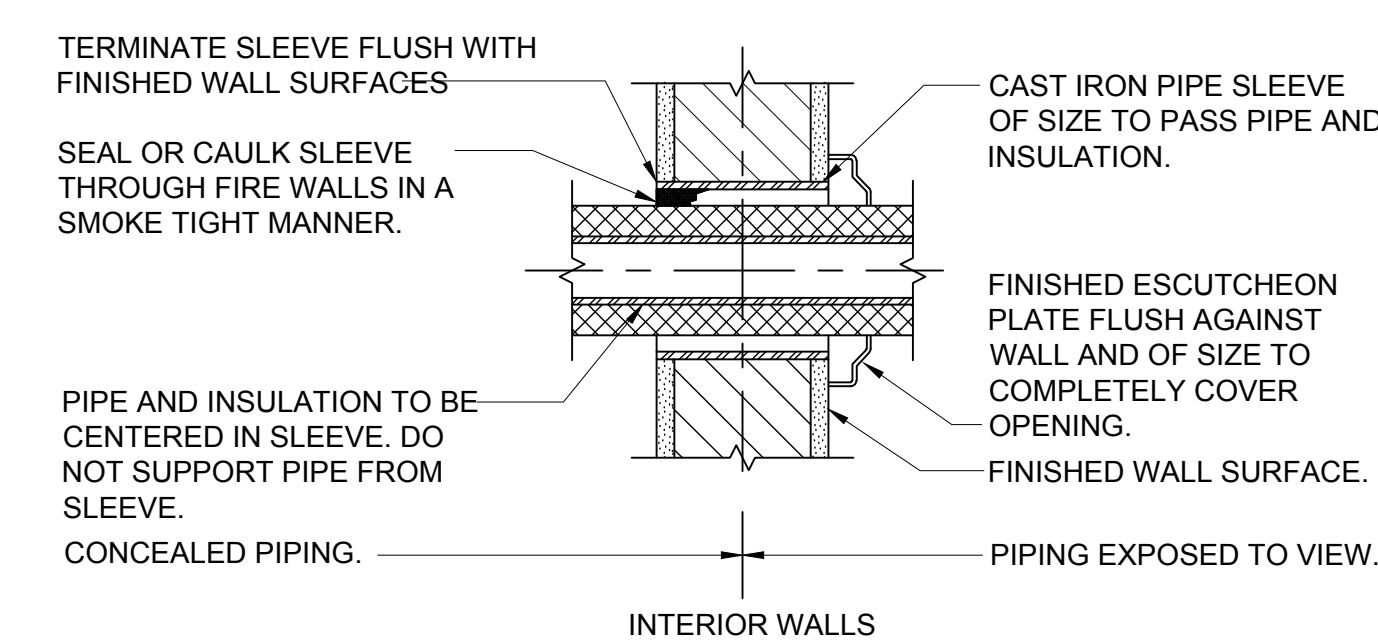
WHERE X = STATIC PRESSURE IN PAN

4 CONDENSATE DRAIN TRAP DETAIL
SCALE: NONE

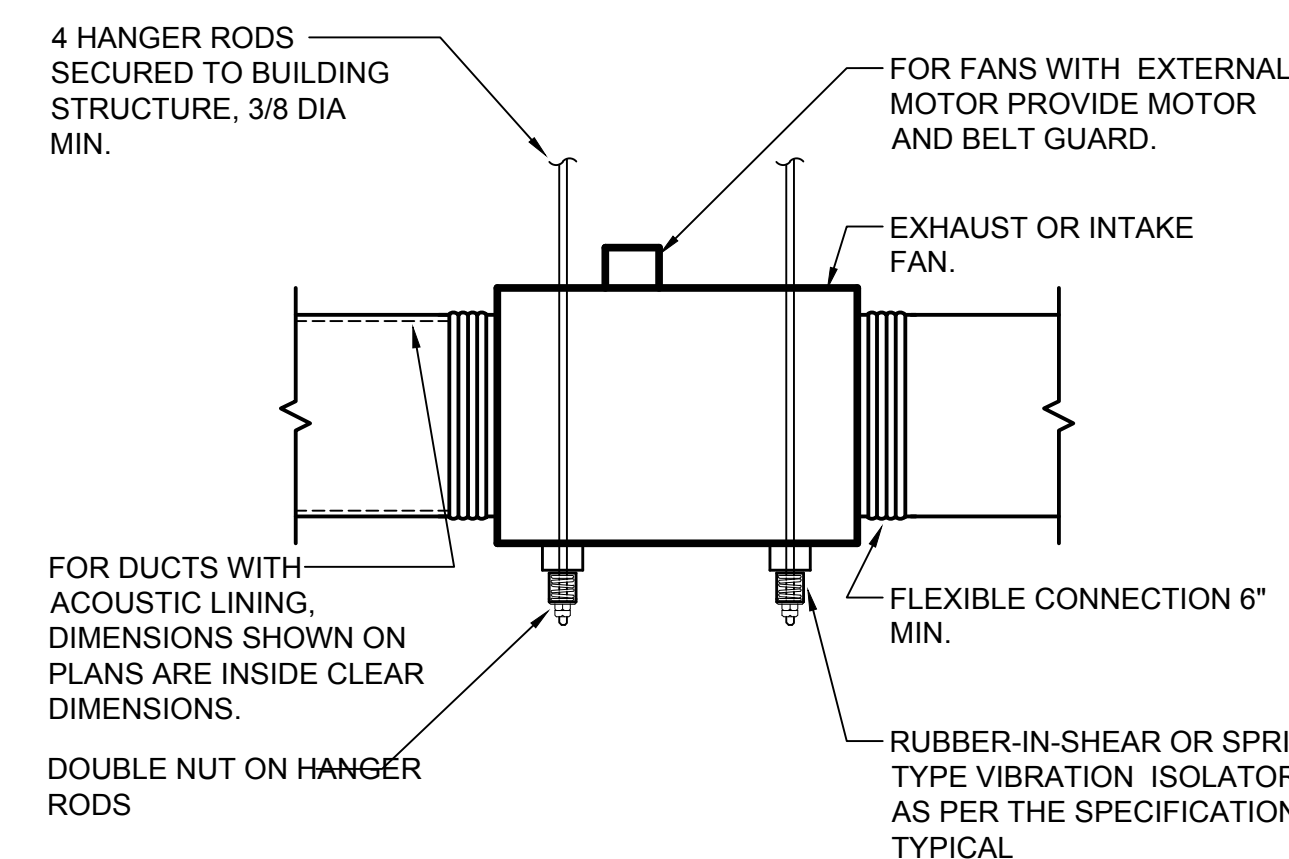


NOTES:
1.) PROVIDE ISOLATION VALVES ON ALL REFRIGERANT PIPING CONNECTED TO UNIT.

6 HEAT RECOVERY UNIT BOX DETAIL
SCALE: NONE

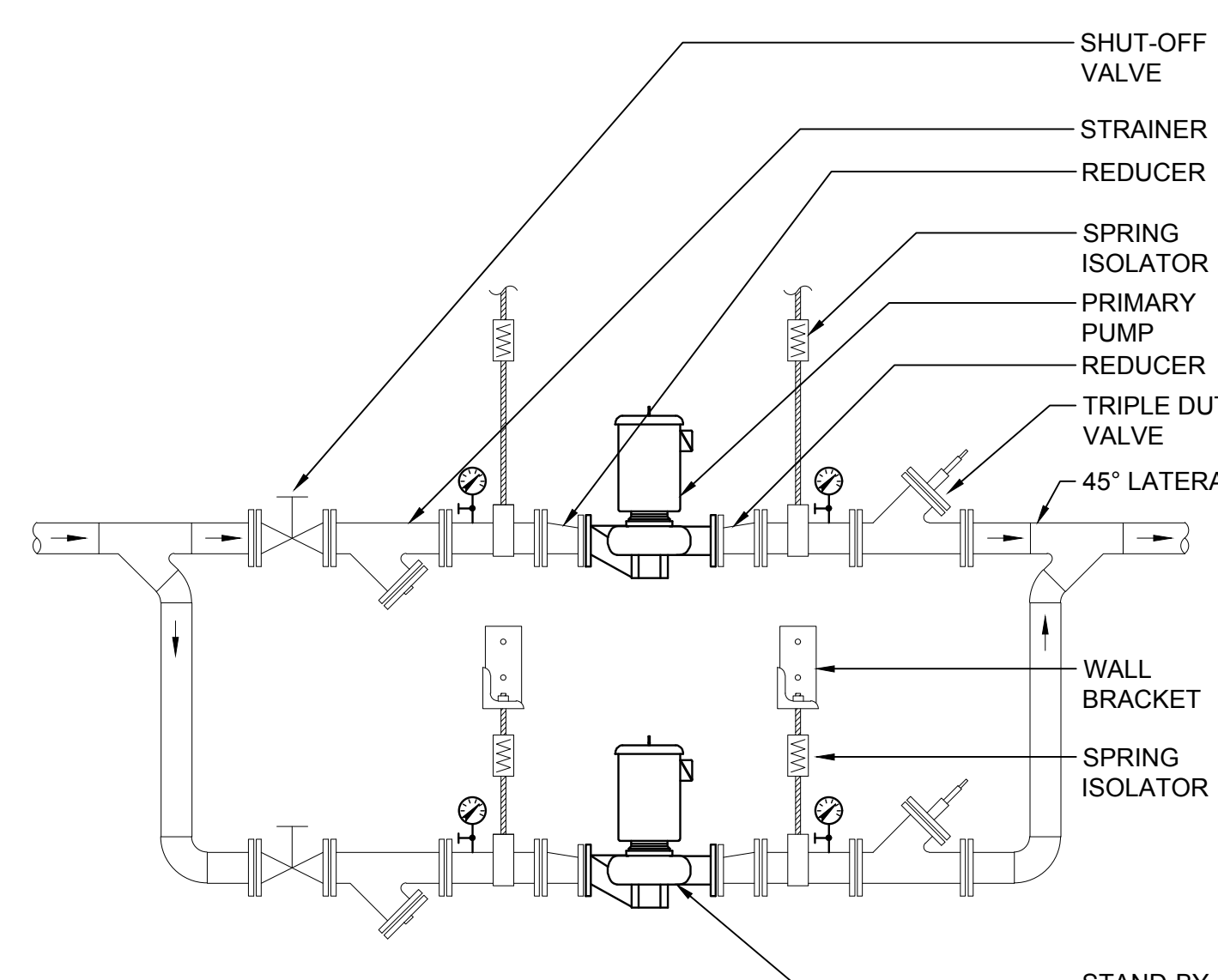


1 PIPE SLEEVES THROUGH WALL
SCALE: NONE



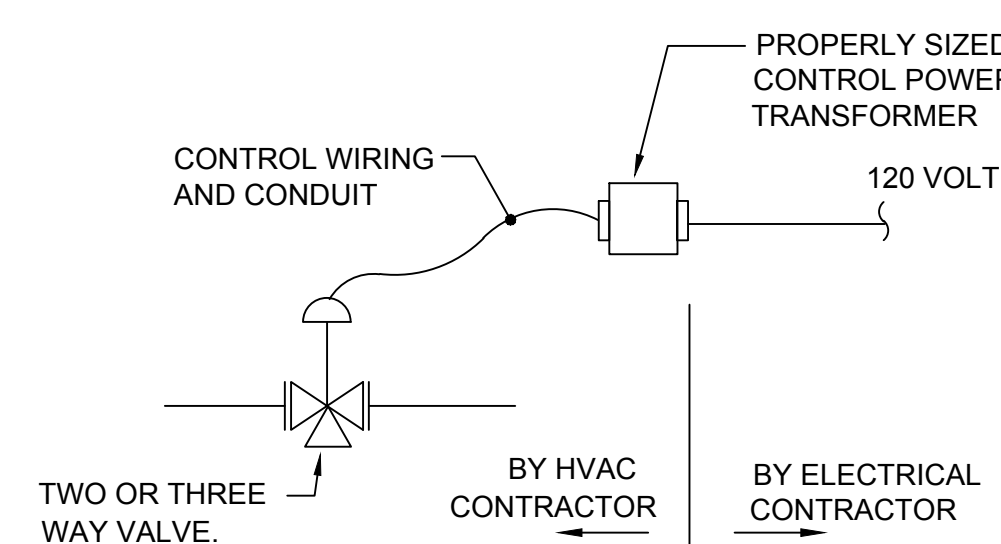
ALL DUCTWORK, PIPES AND CONDUIT SUPPORTED BY THE CEILING SLAB SHOULD USE HILTI HY-200 OR HVA ADHESIVE ANCHORS, DRILLED INTO THE SLAB

3 INLINE FAN DETAIL
SCALE: NONE



NOTES:
1.) HANG PRIMARY PUMP FROM BUILDING STRUCTURE WITH SPRING-TYPE VIBRATION ISOLATORS.
2.) HANG STAND-BY PUMP FROM BUILDING STRUCTURE OR SUPPORT FROM WALL BRACKETS SIMILAR TO F&M FIGURE #151.

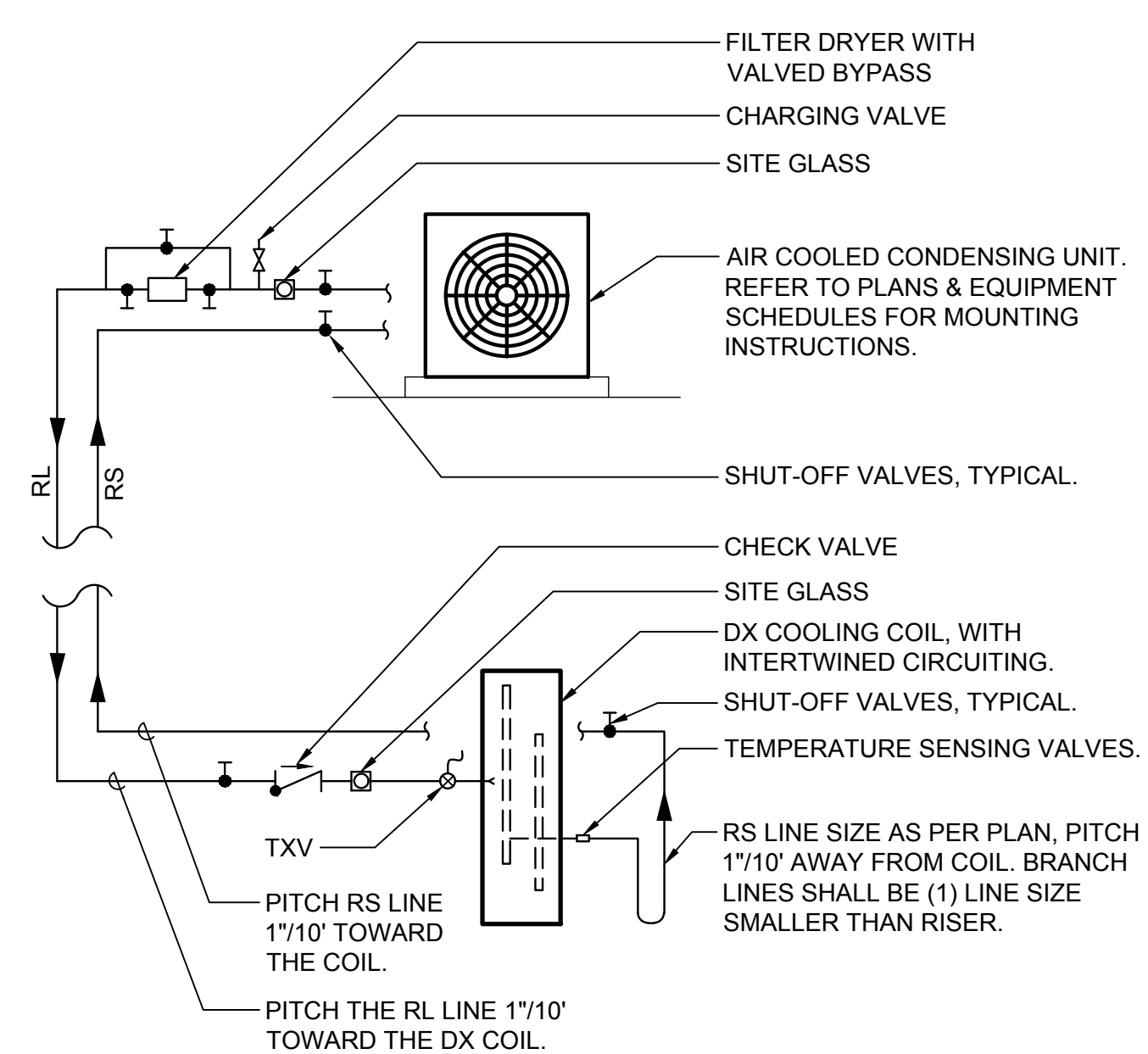
5 IN-LINE PUMP DETAIL
SCALE: NONE



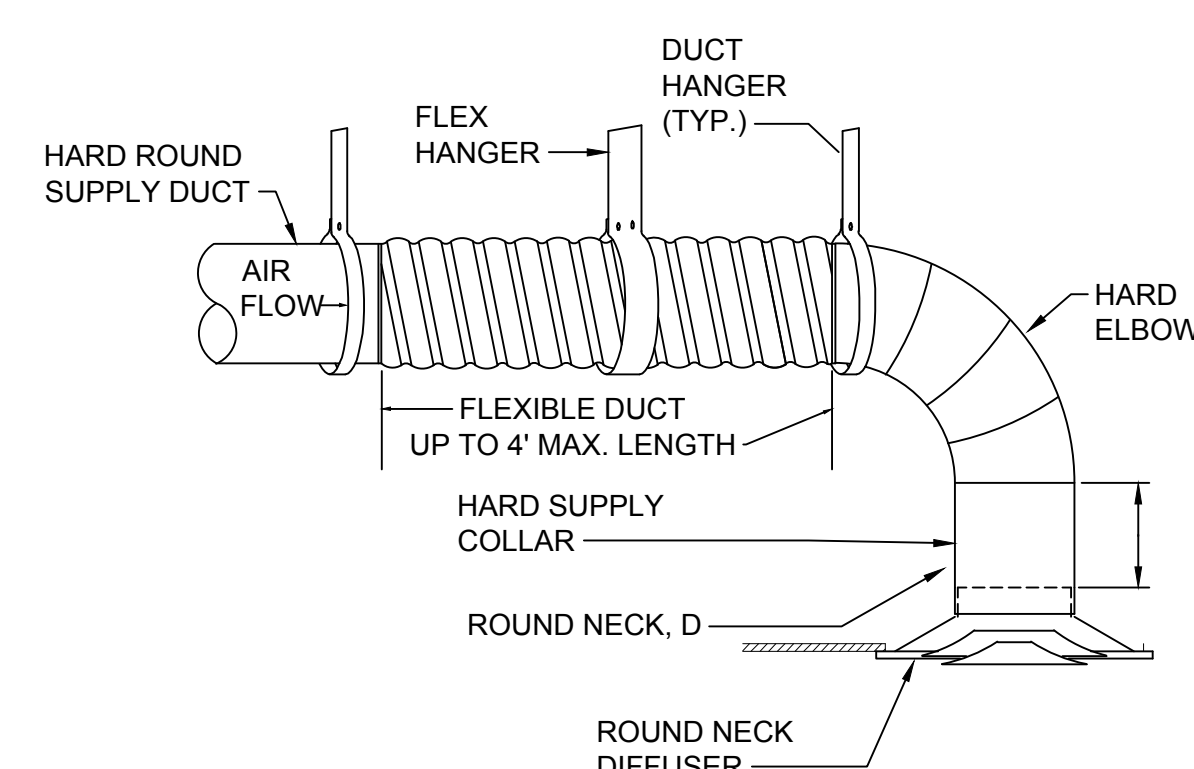
(TYPICAL FOR ALL CONTROL VALVES AND DAMPERS)

NOTE: MECHANICAL CONTRACTOR TO FURNISH MOTOR RATED TOGGLE SWITCH TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR.

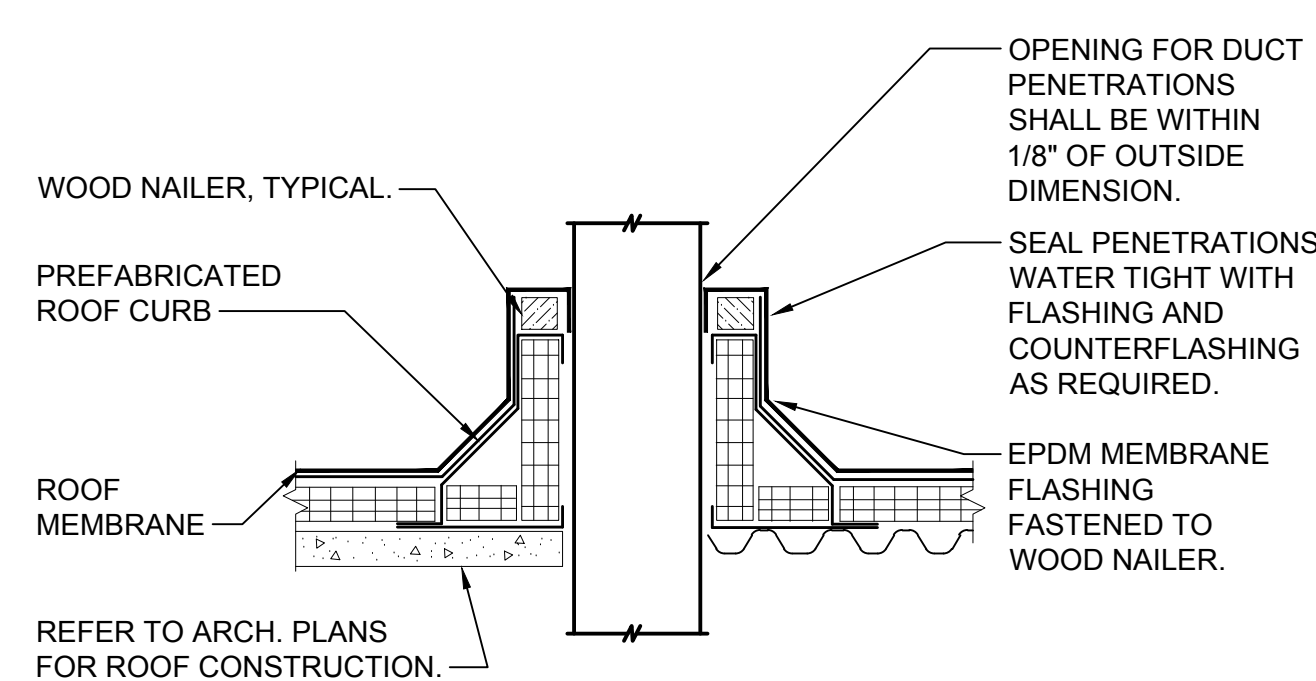
8 CONTROL VALVE WIRING SCHEME
SCALE: NONE



**7 DUCTLESS DX SPLIT-SYSTEM
AC UNIT PIPING SCHEMATIC**
SCALE: NONE

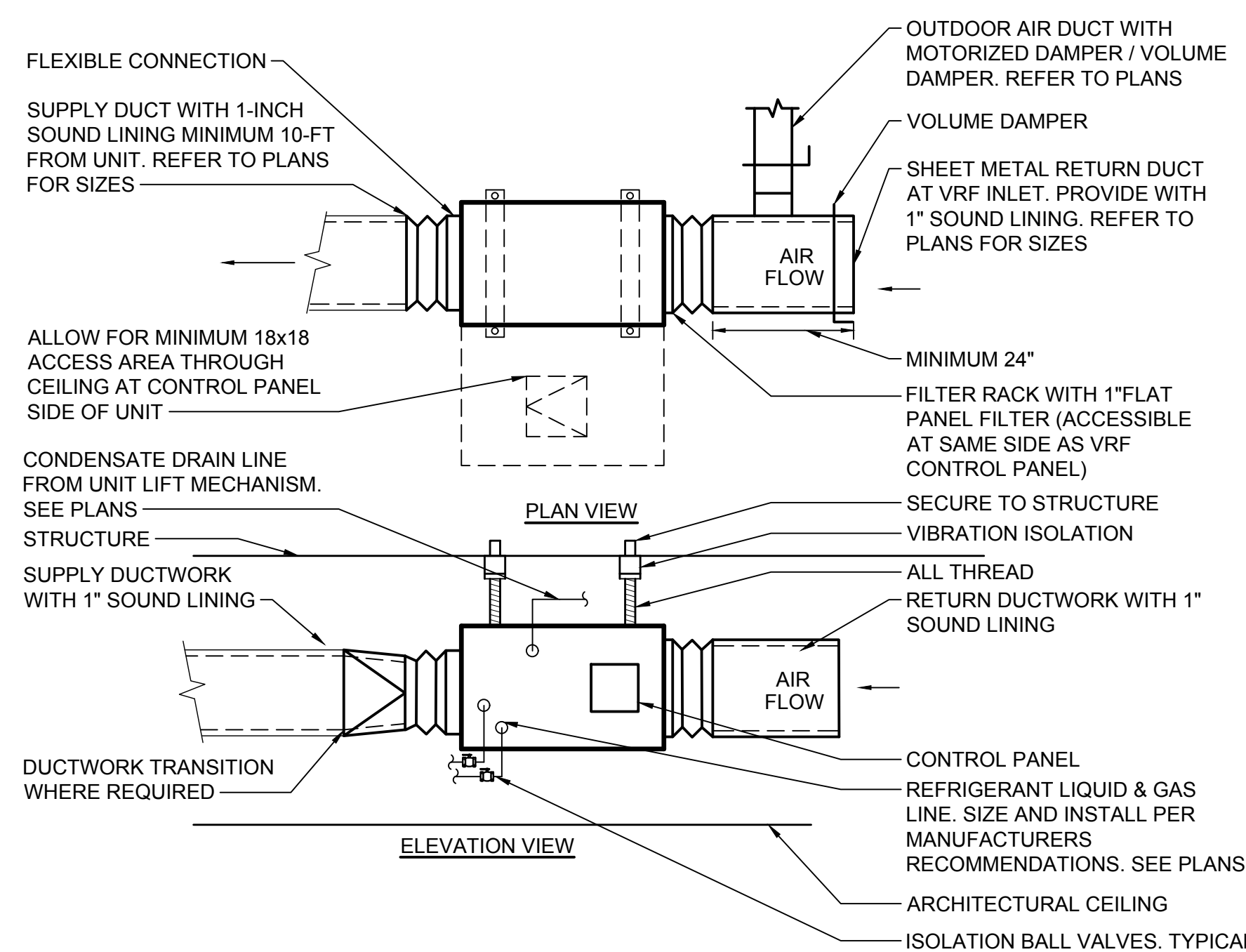


8 ROUND CONNECTION
TO ROUND NECK DIFFUSER
SCALE: NONE

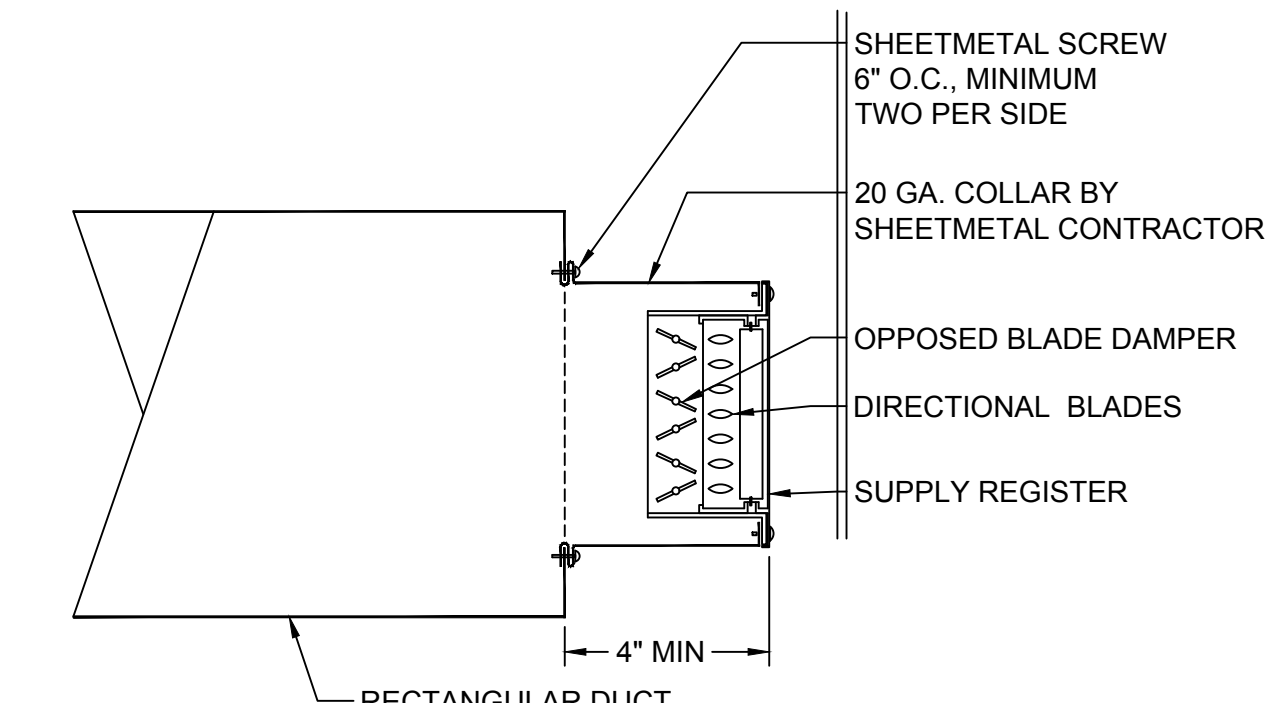


- NOTES:
1. THIS DETAIL SHALL BE USED FOR ALL DUCT PENETRATIONS THROUGH ROOF, BOTH NEW AND EXISTING.
 2. PREFABRICATED ROOF CURB SHALL BE OF PRIME 18 GAUGE GALVANIZED STEEL CONSTRUCTION WITH WELDED CORNERS AND 3" CANT FULLY MITERED WITH SEAMS JOINED BY CONTINUOUS WELDS. CURB SHALL BE FACTORY INSULATED WITH 1-1/2" THICK 3# DENSITY INSULATION AND ASSEMBLED WITH 2x2 WOOD NAILERS. DIMENSIONS OF ROOF CURB SHALL BE VERIFIED BY THIS CONTRACTOR PRIOR TO ORDERING BASED ON DIMENSIONS OF EXISTING UNITS. THIS CONTRACTOR SHALL COORDINATE HEIGHT OF ROOF CURB WITH GENERAL CONTRACTOR PRIOR TO ORDERING.
 3. CONTRACTOR SHALL PROVIDE ALL FLASHING, COUNTERFLASHING, AND ANY OTHER MATERIALS AND LABOR NECESSARY TO ENSURE A WATERTIGHT ROOF PENETRATION ENCLOSURE.

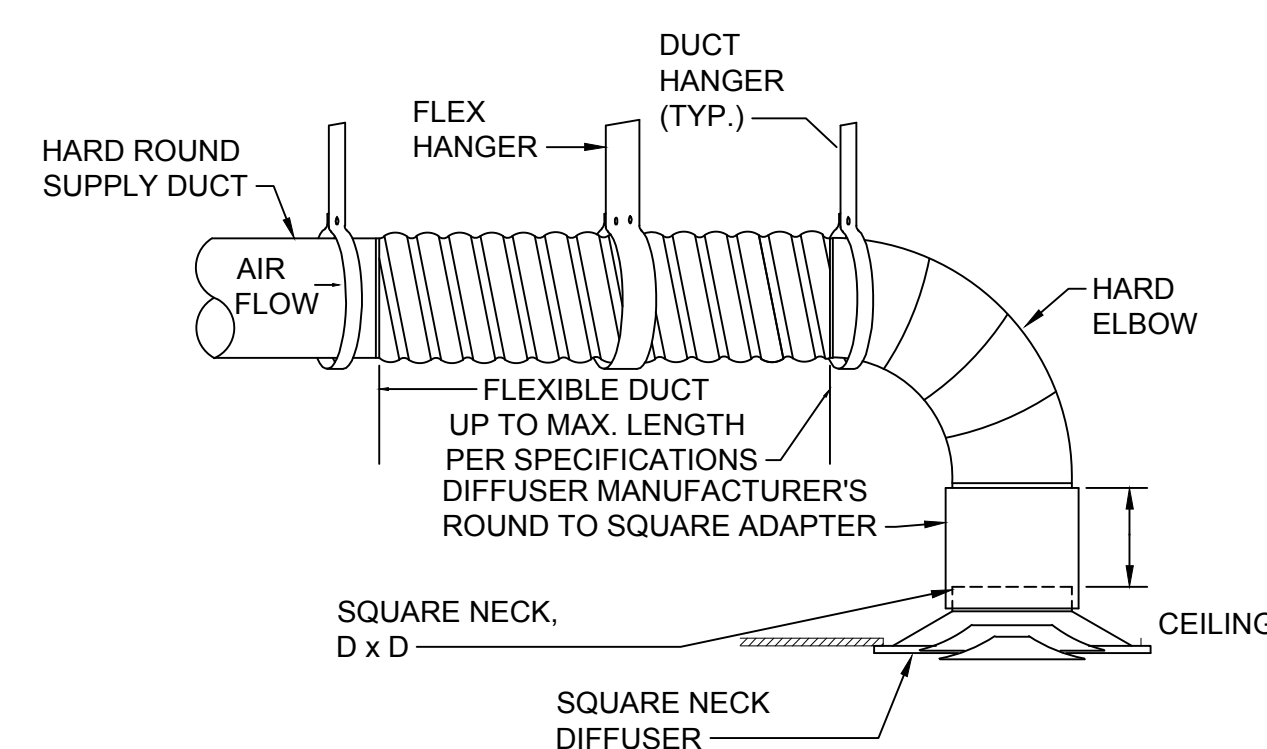
6 DUCT THROUGH ROOF DETAIL
SCALE: NONE



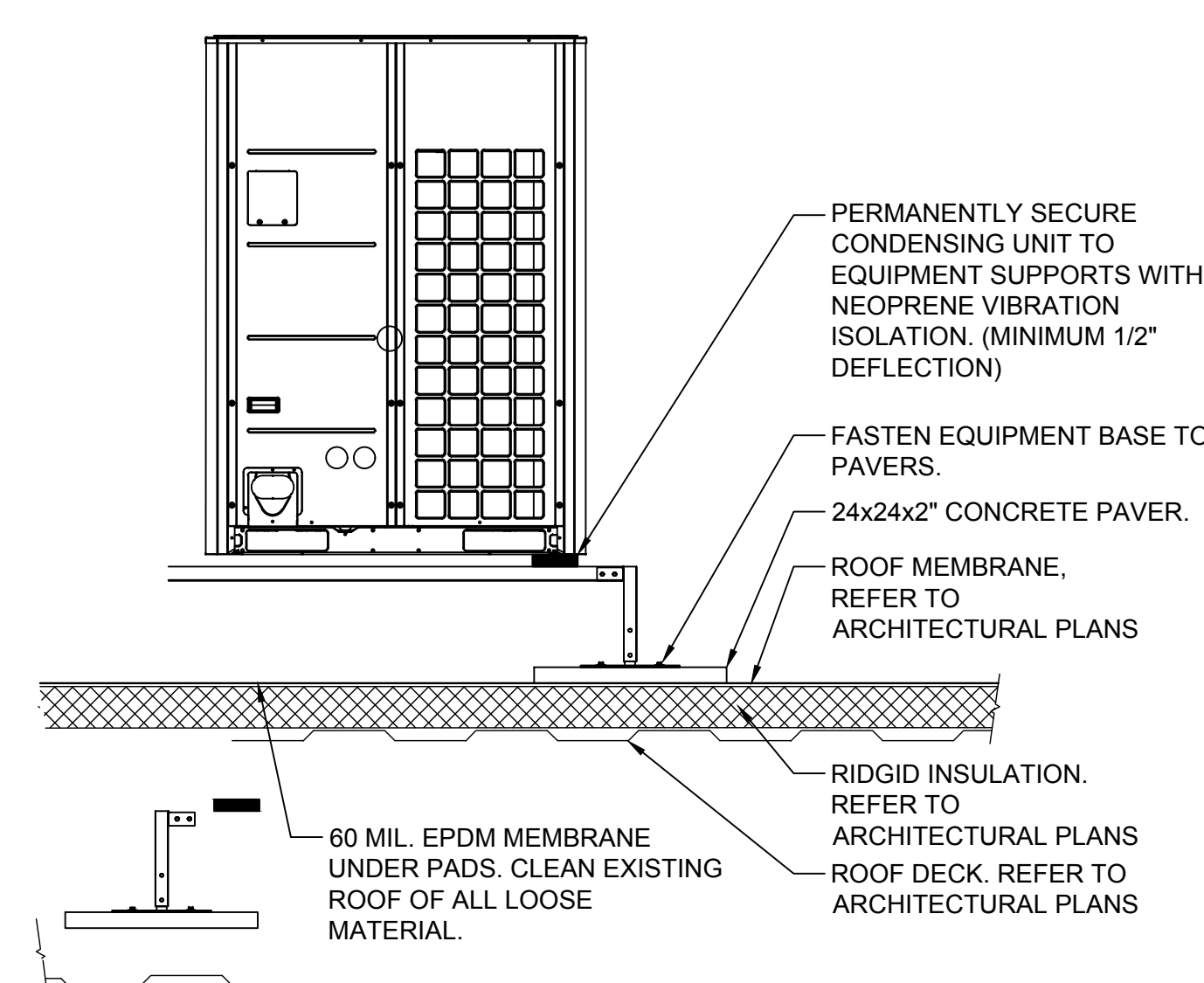
4 VRF INDOOR UNIT DETAILS
SCALE: NONE



2 SUPPLY REGISTER MOUNTING DETAIL - EXPOSED DUCT
SCALE: NONE

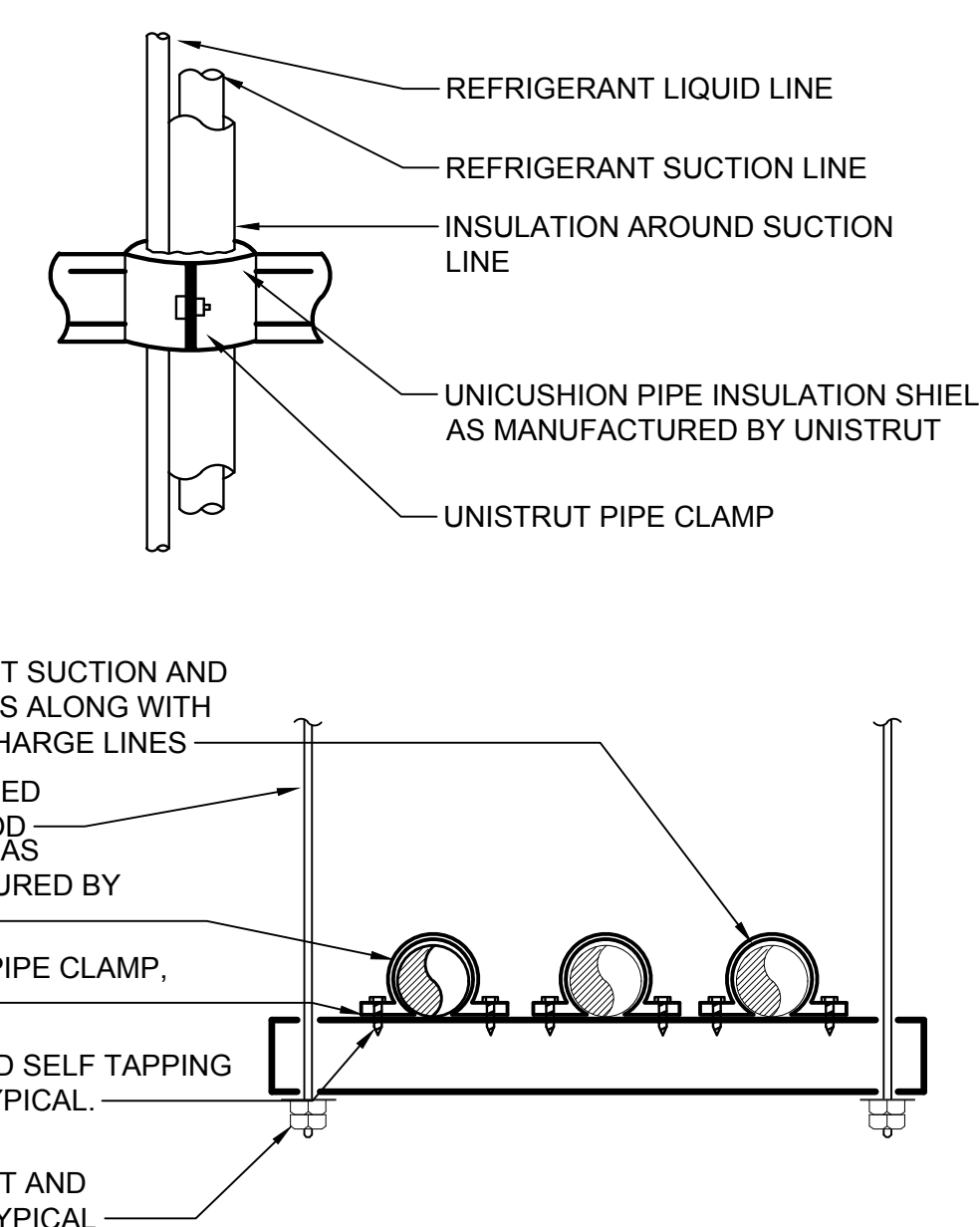


7 ROUND CONNECTION
TO SQUARE NECK DIFFUSER
SCALE: NONE



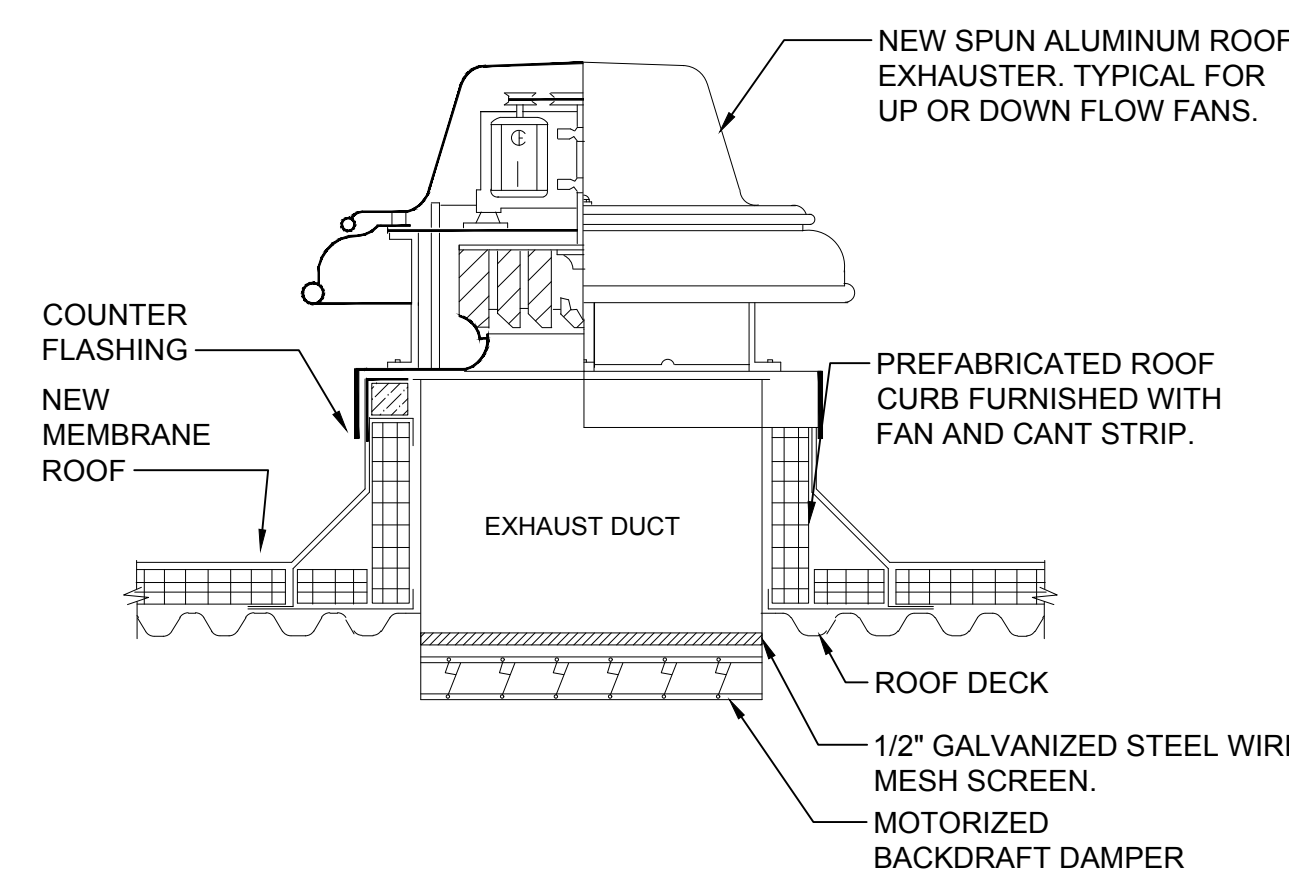
- NOTES:
- 1.) EQUIPMENT SUPPORTS SHALL BE BIG FOOT SYSTEMS STAND.
 - 2.) EACH PIECE OF EQUIPMENT SHALL BE MOUNTED ON CONTINUOUS SUPPORTS. EQUIPMENT SUPPORTS SHALL BE AT LEAST 6" LONGER THAN THE PIECE OF EQUIPMENT TO BE SUPPORTED.
 - 3.) ALL BRACKETS, HANGERS, AND FASTENERS SHALL BE GALVANIZED STEEL.
 - 4.) CEMENT EQUIPMENT SUPPORT TO ROOF - USE ONLY MATERIALS COMPATIBLE WITH THE ROOFING SYSTEM.

5 SUPPORT DETAIL FOR CONDENSING
UNITS LOCATED ON ROOF
SCALE: NONE



- NOTES:
- 1.) LIQUID AND SUCTION LINES MAY BE ROUTED TOGETHER FOR CONVENIENCE, BUT MUST BE COMPLETELY INSULATED FROM EACH OTHER. DO NOT SOLDER LIQUID AND SUCTION LINES TOGETHER. DO NOT ALLOW METAL TO METAL CONTACT.
 - 2.) LINES SHOULD BE INSTALLED WITH AS FEW BENDS AS POSSIBLE, ALLOWING SERVICE ACCESS TO THE INDOOR COIL.
 - 3.) USE LONG RADIUS ELBOWS WHEREVER POSSIBLE, EXCEPT IN OIL RETURN TRAPS, WHERE SHORT RADIUS ELBOWS SHOULD BE USED.
 - 4.) SLOPE HORIZONTAL SUCTION LINES 1 INCH EVERY 20 FEET TOWARD THE OUTDOOR UNIT.

3 REFRIGERANT PIPE SUPPORT DETAIL
SCALE: NONE



- NOTES:
- 1.) SEE ARCHITECTURAL DRAWINGS FOR FLASHING AND COUNTER FLASHING DETAILS.

1 ROOFTOP EXHAUST FAN DETAIL
SCALE: NONE

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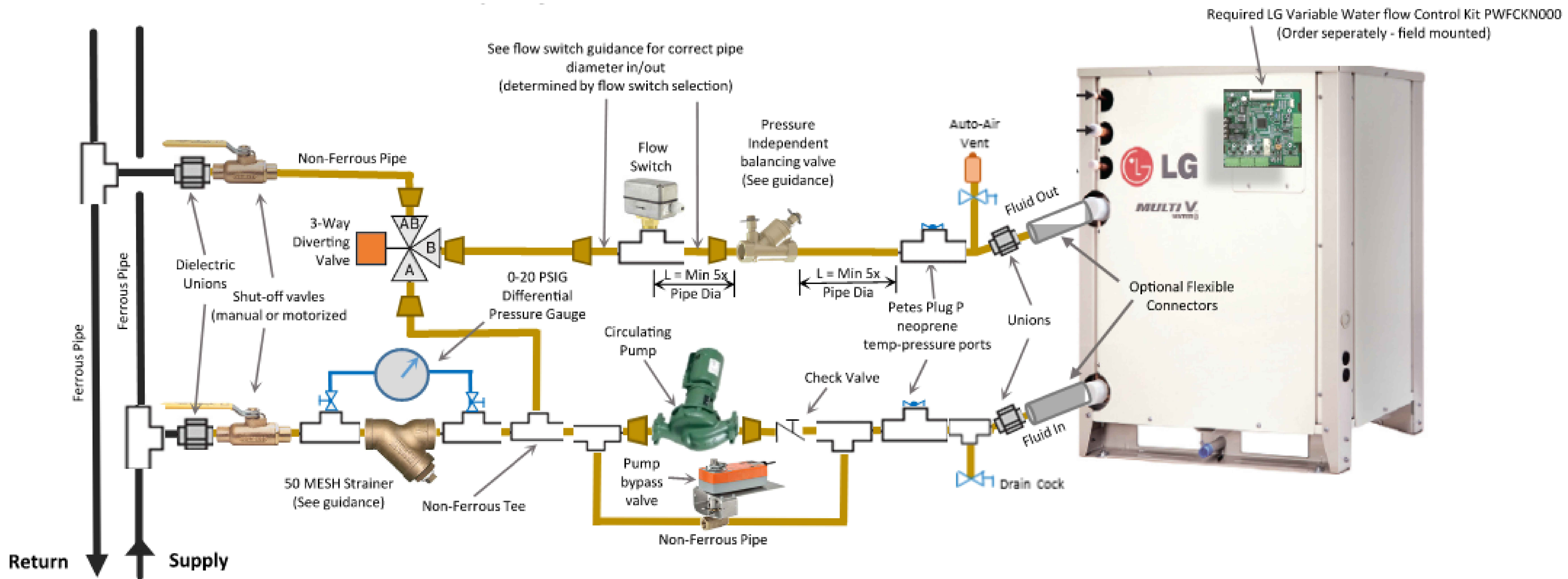
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**MECHANICAL
DETAILS**

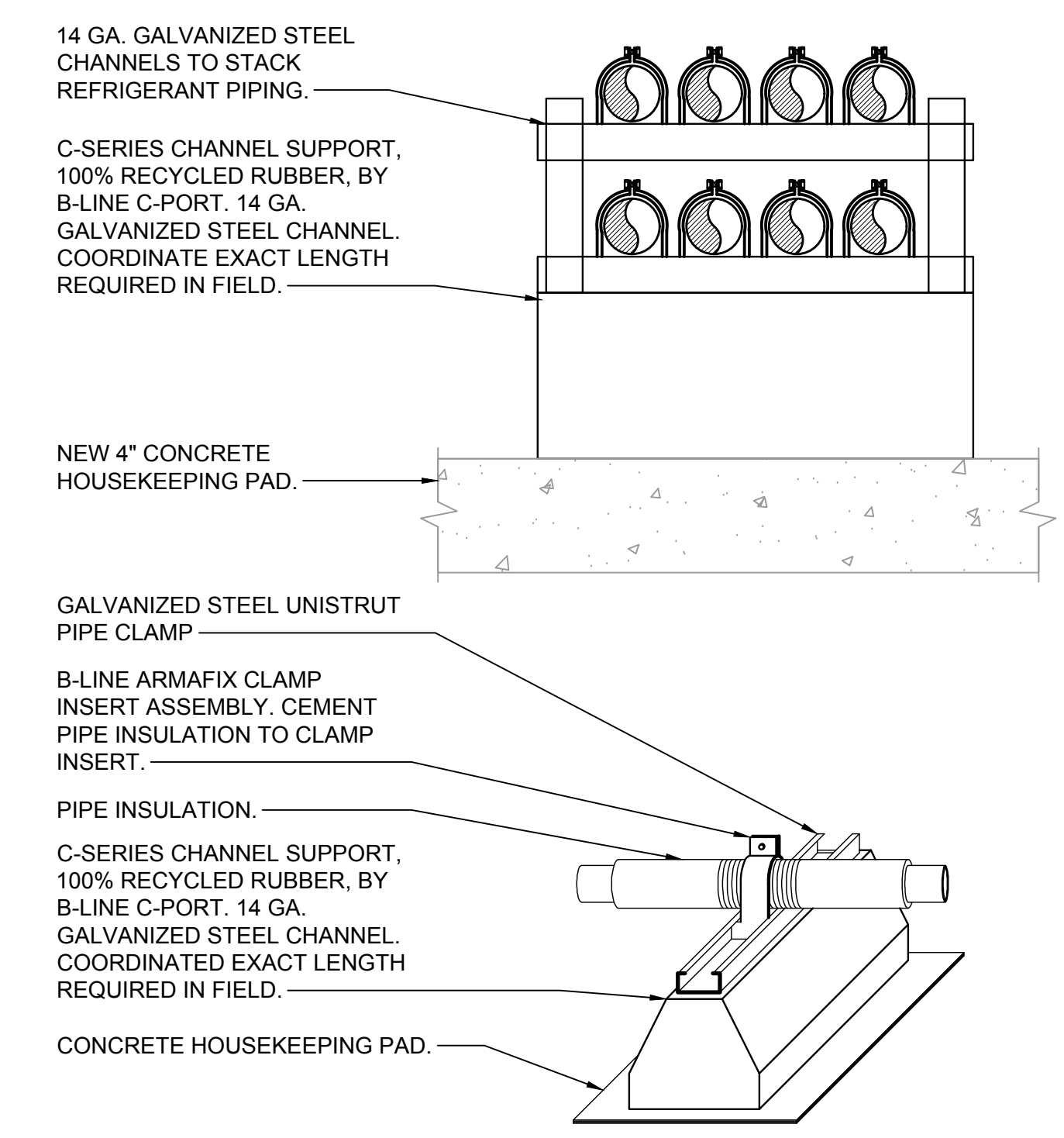
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2 WATER COOLED HEAT PUMP DETAIL
SCALE: NONE



- NOTES:
1. ALL BRACKETS, HANGERS, AND FASTENERS SHALL BE GALVANIZED STEEL.
2. CLAMP INSERT ASSEMBLY SHALL INCLUDE GALVANIZED STEEL PIPE CLAMP, ARMAFIX INSULATION WITH PAINTED ALUMINUM JACKET, AND INTERIOR SUPPORTS.
3. CEMENT RUBBER SUPPORT BLOCKS TO HOUSEKEEPING PAD.

1 REFRIGERANT ON PAD PIPE SUPPORT DETAIL
SCALE: NONE

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**MECHANICAL
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M-704

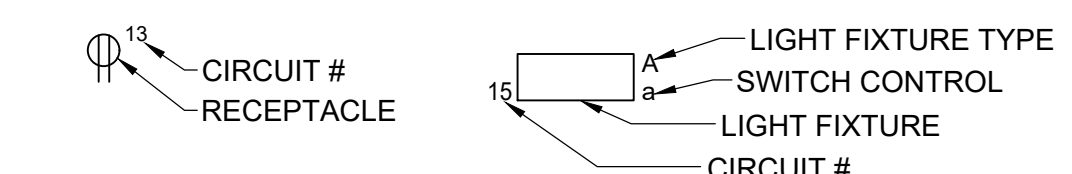
SYMBOLS AND ABBREVIATIONS

| SYMBOL | ABBREVIATION | DESCRIPTION | SYMBOL | ABBREVIATION | DESCRIPTION |
|-----------|--------------|--|--------|--------------|---|
| — — — — — | - | CONDUIT AND WIRING | | DGP | DATA GATHERING PANEL |
| - - - - - | - | CONDUIT & WIRING TO BE REMOVED UON | | FCS | FIRE COMMAND STATION |
| --UG-- | - | BURIED CONDUIT | | FSS | FIRE SUPPRESSION SYSTEM PANEL |
| —OH— | - | OVERHEAD CONDUCTORS | | - | FIRE ALARM RELAY |
| | - | HOMERUN TO PANEL, ARROWS INDICATE # 1P | | EOL | END OF LINE RESISTOR |
| ← | - | MULTI-POLE HOMERUN | | - | WALL MOUNTED PUBLIC ADDRESS SPEAKER |
| | - | ELECTRICAL EQUIPMENT AS INDICATED | | - | PUBLIC ADDRESS TELEPHONE |
| | - | ELECTRICAL EQUIPMENT TO BE REMOVED UON | | - | CEILING MOUNTED PUBLIC ADDRESS SPEAKER |
| | - | ELECTRIC METER | | - | CEILING MOUNTED SPHERICAL TYPE LOUD SPEAKER |
| | - | JUNCTION BOX | | - | PUBLIC ADDRESS BELL |
| | - | FUSED DISCONNECT SWITCH | | - | CAMERA |
| | - | UNFUSED DISCONNECT SWITCH | | - | TIME CLOCK |
| | - | COMBINATION MOTOR STARTER/FUSED DISC. | | - | CARD READER |
| | - | MOTOR STARTER | | - | DOOR ALARM |
| | - | MOTOR | | - | ELECTRIC DOOR STRIKE |
| | - | BATTERY PACK EMERGENCY LIGHT FIXTURE | | - | SECURITY MOTION DETECTOR |
| | - | EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW | | - | KEY PAD |
| | - | SINGLE POLE SWITCH (x - INDICATES FIXTURE BEING CONTROLLED) | | - | PANIC ALARM |
| | - | THREE WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED) | | - | SECURITY CAMERA PTZ - PAN, TILT, ZOOM |
| | - | FOUR WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED) | | - | SECURITY ALARM HORN |
| | - | DIMMER SWITCH (x - INDICATES FIXTURE BEING CONTROLLED) | | - | PUSHBUTTON |
| | - | MOTOR RATED TOGGLE SWITCH | | - | CALL FOR AID PULL STATION |
| | - | KEY OPERATED SINGLE POLE SWITCH | | - | CALL FOR AID A/V DEVICE |
| | - | SPEED CONTROLLER (FBO) | | - | ELECTRIC HAND DRYER |
| | - | WALL MOUNTED OCCUPANCY SENSOR | | EPO | EMERGENCY POWER OFF SWITCH |
| | - | CEILING MOUNTED OCCUPANCY SENSOR | | RASP | RESCUE ASSIST. SYSTEM MASTER STATION |
| | - | DUPLEX RECEPTACLE | | - | REMOTE RESCUE STATION |
| | - | DOUBLE DUPLEX RECEPTACLE | | CB | CIRCUIT BREAKER |
| | - | SPECIAL RECEPTACLE | | - | ENCLOSED CIRCUIT BREAKER |
| | - | TELEPHONE OUTLET | | - | FUSED SWITCH |
| | - | DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK UON) | | GEN | GENERATOR |
| | - | COMBINATION TELEPHONE/DATA OUTLET | | GND | GROUND AS PER LOCAL CODE |
| | - | COMBINATION DATA & TV OUTLET | | - | GROUND BAR |
| | - | TV OUTLET | | - | GROUND ROD |
| | - | FURNITURE SYSTEM POWER FEED | | - | TRANSFER SWITCH |
| | - | FURNITURE SYSTEM COMMUNICATION FEED | | XFMR | TRANSFORMER |
| | - | FIRE ALARM MANUAL PULL STATION | | CT | CURRENT TRANSFORMER |
| | - | FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (15/75 CD - STROBE) | | - | UTILITY POLE |
| | - | FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (110 CD - STROBE) | | WM | WATER MAIN |
| | - | FIRE ALARM STROBE 15/75 CD | | - | BOILER BREAK GLASS STATION |
| | - | FIRE ALARM STROBE 110 CD | | NC | NORMALLY CLOSED CONTACTS |
| | - | CARBON MONOXIDE DEVICE (15/75 CD - STROBE) | | NO | NORMALLY OPEN CONTACTS |
| | - | SMOKE DETECTOR. EL - ELEVATOR LOBBY; SH - SMOKE HATCH; SC - PLENUM RATED ABOVE CEILING | | CV | CONTROL VALVE |
| | SB | FIRE ALARM DEVICE. SB - SOUNDER BASE FOR SMOKE OR CARBON MONOXIDE DETECTOR | | MD | MOTORIZED DAMPER |
| | - | BEAM SMOKE DETECTOR RECEIVER | | SD OR CFSD | SMOKE DAMPER |
| | - | BEAM SMOKE DETECTOR TRANSMITTER | | UH | UNIT HEATER |
| | - | DUCT MOUNTED SMOKE DETECTOR | | - | RESCUE ASSISTANCE |
| | - | HEAT DETECTOR | | - | DOUBLE DOOR CONTACT |
| | - | CARBON MONOXIDE DETECTOR | | - | DOOR CONTACT |
| | - | NATURAL GAS DETECTOR | | A | AMPERE(S) |
| | - | FIRE ALARM PRESSURE SWITCH | | AC | AIR CONDITIONER |
| | - | FIRE ALARM TAMPER SWITCH | | ACC | AIR CONDITIONER CONDENSER |
| | - | FIRE ALARM WATER FLOW SWITCH | | AFF | ABOVE FINISHED FLOOR |
| | - | FIRE WATER TANK LOW TEMP SENSOR | | AF | AMPERAGE OF FUSE |
| | - | FIRE WATER TANK LOW WATER | | AGL | ABOVE GRADE LEVEL |
| | - | FIRE WATER TANK HIGH WATER | | AHU | AIR HANDLING UNIT |
| | - | DRY VALVE LOW AIR | | AL | ALUMINIUM |
| | - | DRY VALVE HIGH AIR | | ARC | ARC FAULT INTERRUPTER |
| | - | FIRE ALARM WARDEN STATION | | AS | AMPERAGE OF SWITCH |
| | - | FIRE ALARM DOOR RELEASE | | ATS | AUTOMATIC TRANSFER SWITCH |
| | - | FIRE ALARM ANNUNCIATOR PANEL | | AWG | AMERICAN WIRE GAUGE |
| | CM | FIRE ALARM CONTROL MODULE | | BCW | BARE COPPER WIRE |
| | MM | FIRE ALARM MONITORING MODULE | | BLDG | BUILDING |
| | FACP | FIRE ALARM CONTROL PANEL | | BMS | BUILDING MANAGEMENT SYSTEM |
| | BPS | BOOSTER POWER SUPPLY | | C | CONDUIT |
| | | | | CD | CANDELA |
| | | | | CKT | CIRCUIT |
| | | | | CLG | CEILING |
| | | | | COL | COLUMN |
| | | | | CU | COPPER |
| | | | | CUH | CABINET UNIT HEATER |

NOTES:
 1.) ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT.
 2.) SEE LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE SYMBOLS.

TYPICAL BRANCH CIRCUIT WIRING LEGEND

- 2-#12 & 1-#12 GND (1-1P-20A OR 1-1P-15A CB)
- 3-#12 & 1-#12 GND (3P-20A OR 3P-15A CB)
- 2-#12 & 1-#12 GND (2P-20A OR 2P-15A CB)



NOTES:
 1.) EACH 120V AND 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED.
 2.) CONDUCTORS SHALL BE INCREASED FOR VOLTAGE DROP AND DERATING AS PER APPLICABLE ELECTRICAL CODE. FOR CIRCUITS THAT ARE BETWEEN 100' AND 150' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #10 AWG. FOR CIRCUITS THAT ARE BETWEEN 150' AND 225' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #8 AWG. FOR LENGTHS GREATER THAN 225' IN LENGTH, VERIFY CONDUCTOR SIZES WITH ENGINEER.

GENERAL NOTES

- ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX).
- THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION.
- ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY.
- ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".
- ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES.

GENERAL NOTES (CONT'D)

- CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.
- WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.
- INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.
- CEILING MOUNTED RECEPTACLES SHALL BE MOUNTED FLUSH TO CEILING.
- UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED TOGGLE SWITCHES FOR MECHANICAL PUMPS, CABINET AND UNIT HEATERS, RETURN FANS, ROOF FANS, VAV BOXES, COMPRESSORS, FAN COIL UNITS, AIR HANDLERS AND CONDENSERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR.
- DISCONNECT SWITCHES FOR MOTORIZED DAMPERS, CFSD/SD AND VAV BOXES SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS.
- INCLUDE IN BASE BID THE FOLLOWING 1P-20A CIRCUITS ON EACH LEVEL (150' LENGTH EACH) FOR HVAC SYSTEM CONTROL PANELS. EXACT LOCATION OF CONTROL PANELS SHALL BE COORDINATED WITH DIVISION 23 IN THE FIELD. CIRCUITS SHALL ORIGINATE FROM THE FOLLOWING PANELBOARDS:

 PARKING - PSPA-45
 FIRST FLOOR - PSA-25, PN1A-27
 SECOND FLOOR - PSA-57

DEFINITION OF TERMS

- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "THE TOWN OF HARRISON, NY" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "KG&D ARCHITECTS, P.C." IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "CON EDISON" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "TELEPHONE UTILITY" OR "TELCO" ARE USED, IT MUST BE UNDERSTOOD THAT "OPTIMUM" IS INTENDED.
- "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.
- "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
- "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.
- "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
- THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:

- A.) "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.
- B.) "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.
- C.) "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.
- D.) "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

TRENCHING NOTES

- CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES THAT ARE NOT PART OF N.Y. STATE "CODE 753" PRIOR TO DIGGING.
- ALL EXCAVATING IN THE AREA OF THE EXISTING UNDERGROUND EQUIPMENT, PIPES AND CONDUITS SHALL BE PERFORMED BY HAND.
- ANY AREA/PLANTS OR LANDSCAPING OR PAVEMENTS DISTURBED DURING THE EXCAVATION SHALL BE RESTORED OR REPLACED TO MATCH EXISTING CONDITIONS BY THE CONTRACTOR AT NO COST TO THE OWNER.
- ANY EXISTING BURIED CONDUITS, DRAINAGE, SPRINKLER PIPING, ETC. THAT IS DISTURBED AND/OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA. EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-962-7962.

LOW VOLTAGE SYSTEMS NOTES

- THIS CONTRACTOR IS RESPONSIBLE FOR ALL RACEWAYS AND WIRING ASSOCIATED WITH LOW VOLTAGE SYSTEMS. THE LOW VOLTAGE SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO, AUDIO/VISUAL, ACCESS CONTROL, CCTV, INTRUDER ALARM, DATA AND COMMUNICATION SYSTEMS. THIS CONTRACTOR SHALL REFER TO THE "AVV" AND "SE" SERIES DRAWINGS AND DETAILS FOR QUANTITIES, SIZES AND SPECIFICATION OF RACEWAYS AND WIRING. THIS CONTRACTOR SHALL PROVIDE DATA RACKS AND PATCH PANELS FOR TERMINATING SYSTEM WIRING. TEST AND LABEL EACH END OF WIRING.
- HEAD-END SWITCHES, SENSORS AND SYSTEM COMPONENTS SHALL BE BY OTHERS.
- ALL LADDER RACKS, TROUGHS AND ASSOCIATED COMPONENTS WITHIN IT AND AV ROOMS ARE BY THIS CONTRACTOR, AS DETAILED IN THE "AVV" AND "SE" SERIES DRAWINGS.
- FOR EACH WALL MOUNTED LOW VOLTAGE SYSTEM OUTLET, PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND 1 INCH CONDUIT WITH DRAGLINE 6 INCHES ABOVE ACCESSIBLE CEILING FOR INSTALLATION OF CABLE BY THIS CONTRACTOR. JUNCTION BOXES SHALL BE RECESSED WITHIN THE NEW BUILDING CONSTRUCTION, COORDINATE WITH GENERAL CONSTRUCTION CONTRACTOR.
- THIS CONTRACTOR SHALL WIRE CAT6 CABLE TO EACH COMMUNICATION POINT SHOWN, SEE PLAN FOR QUANTITIES. TERMINATIONS AT DATA POINT AND PATCH PANEL BY THIS CONTRACTOR, RJ45 JACKS AND COVER PLATES TO BE PROVIDED BY THIS CONTRACTOR. TEST AND LABEL EACH END OF CAT6 CABLE.
- FIBER OPTIC WIRING BETWEEN DATA ROOM 111 AND DATA ROOM 205A IS BY THIS CONTRACTOR. PROVIDE A PLENUM RATED MULTI-MODE 12 STRAND FIBER OPTIC CABLE TERMINATED WITH LC CONNECTORS.

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 New Construction - Phase 2
 Town / Village of Harrison
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CONSTRUCTION DOCUMENTS

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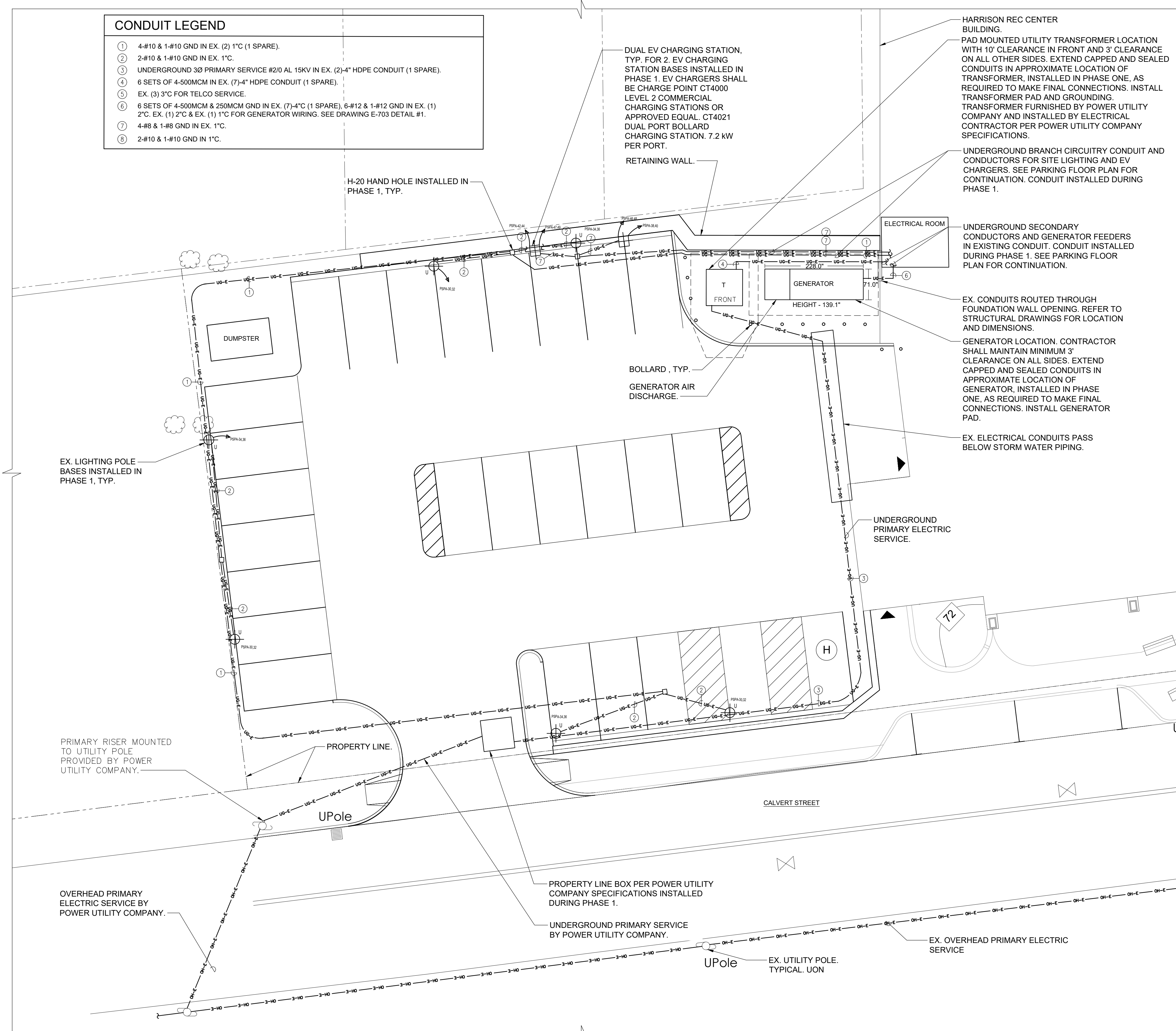
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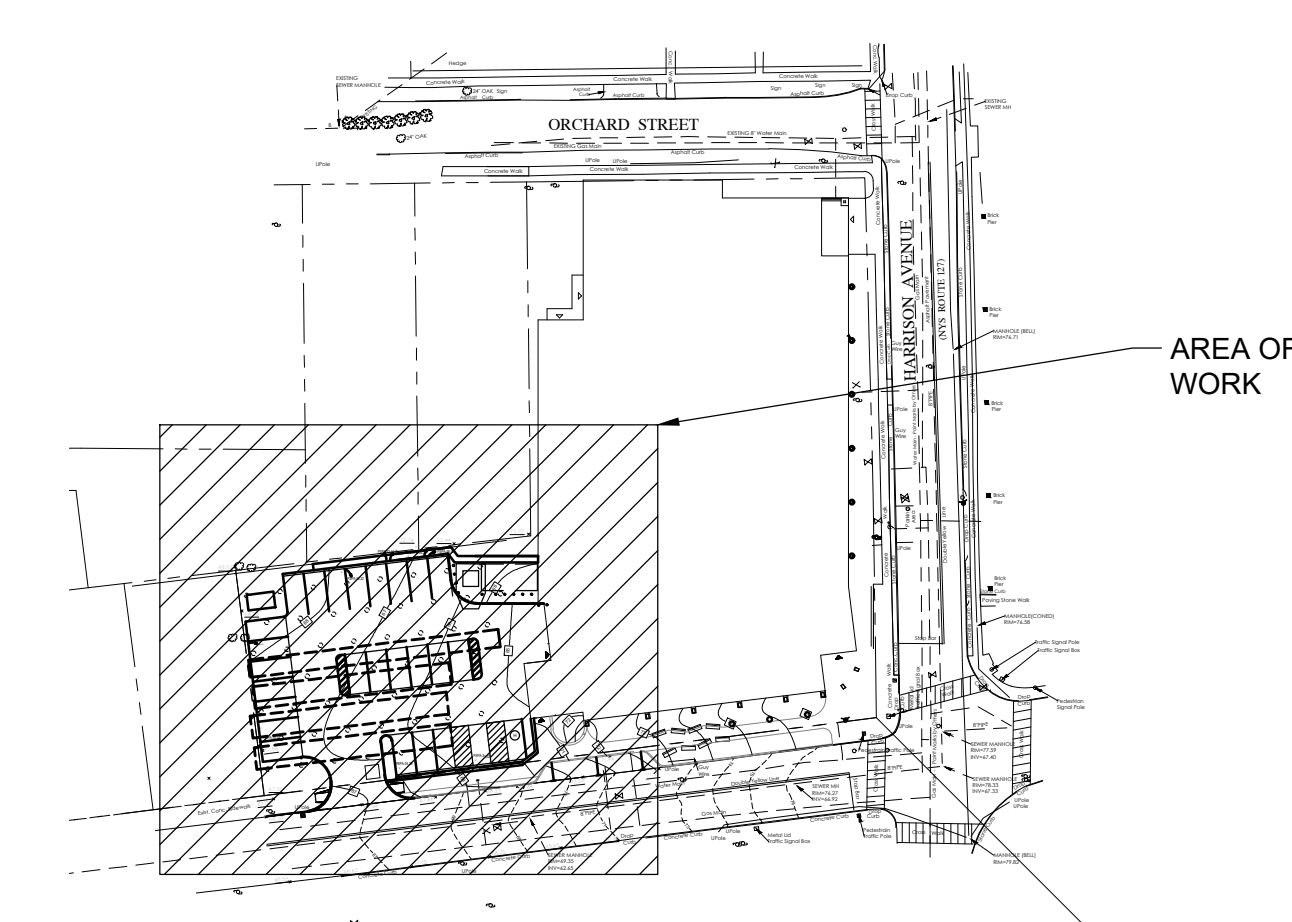
ELECTRICAL SYMBOLS, NOTES & ABBREVIATIONS

Job No. NKGD0207.00 Date 03/01/2024
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 Sheet Number **E-001**



CONDUIT LEGEND

- ① 4-#10 & 1-#10 GND IN EX. (2) 1" (1 SPARE).
- ② 2-#10 & 1-#10 GND IN EX. 1" (1 SPARE).
- ③ UNDERGROUND 3Ø PRIMARY SERVICE #2/0 AL 15KV IN EX. (2)-4" HDPE CONDUIT (1 SPARE).
- ④ 6 SETS OF 4-500MCM IN EX. (7)-4" HDPE CONDUIT (1 SPARE).
- ⑤ EX. (3) 3" FOR TELCO SERVICE.
- ⑥ 6 SETS OF 4-500MCM & 250MCM GND IN EX. (7)-4" (1 SPARE), 6-#12 & 1-#12 GND IN EX. (1) 2" EX. (1) 2" & EX. (1) 1" FOR GENERATOR WIRING. SEE DRAWING E-703 DETAIL #1.
- ⑦ 4-#8 & 1-#8 GND IN EX. 1" (1 SPARE).
- ⑧ 2-#10 & 1-#10 GND IN EX. 1" (1 SPARE).



1 KEY PLAN
SCALE: NONE
NORTH

2 ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"
NORTH

- NOTES:
- 1.) ALL ELECTRICAL CONDUITS ARE ROUTED UNDERGROUND, UON.
 - 2.) ALL SPARE ELECTRICAL CONDUITS SHALL BE PROVIDED WITH DRAGLINES.
 - 3.) ALL CONDUITS SHALL BE SCHEDULE 40 PVC, UON.

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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title

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| No. | Date | Issue |
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ELECTRICAL SITE PLAN

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| Job No. | Date |
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Sheet Number
E-010

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

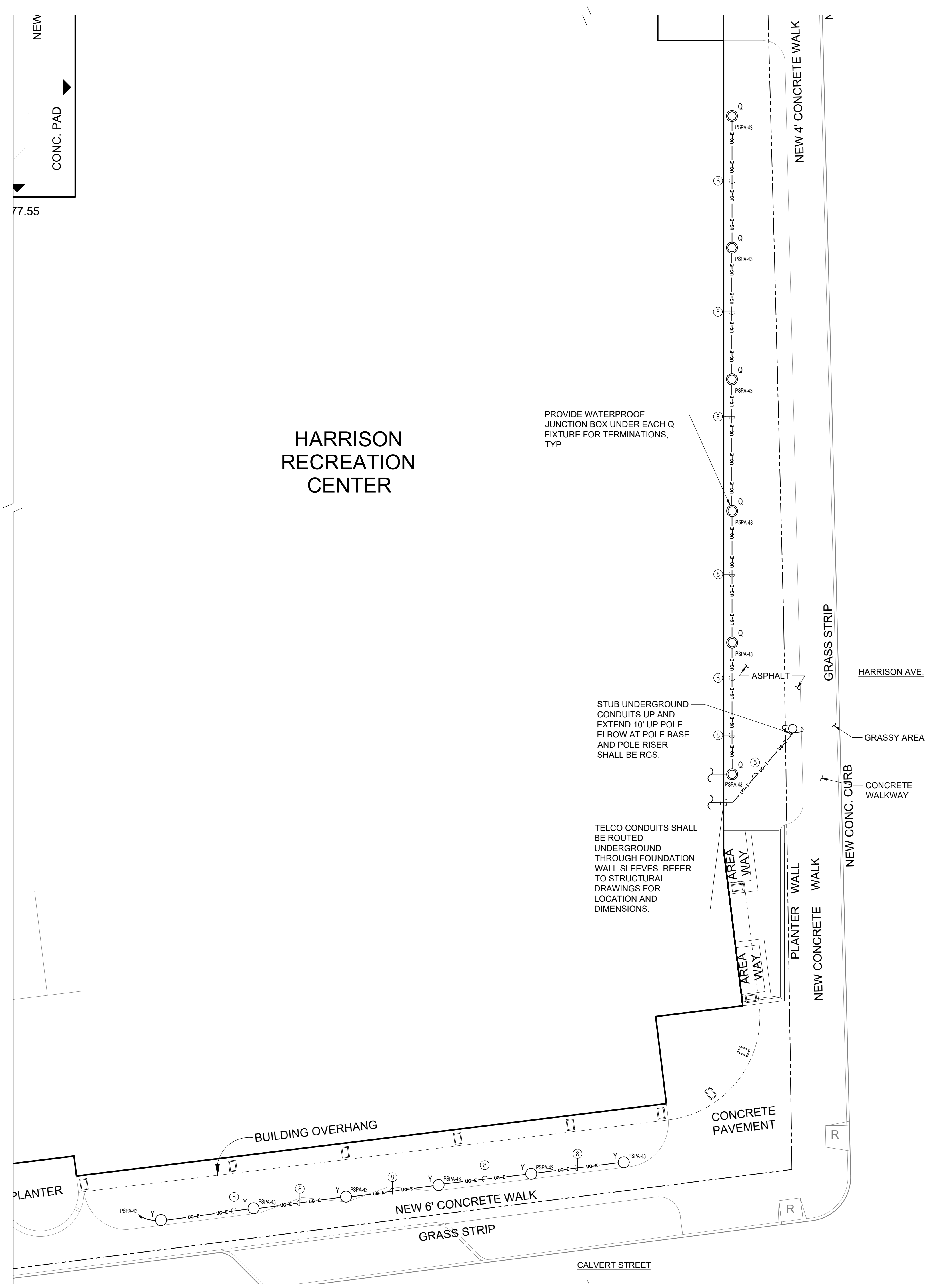
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CONSTRUCTION DOCUMENTS

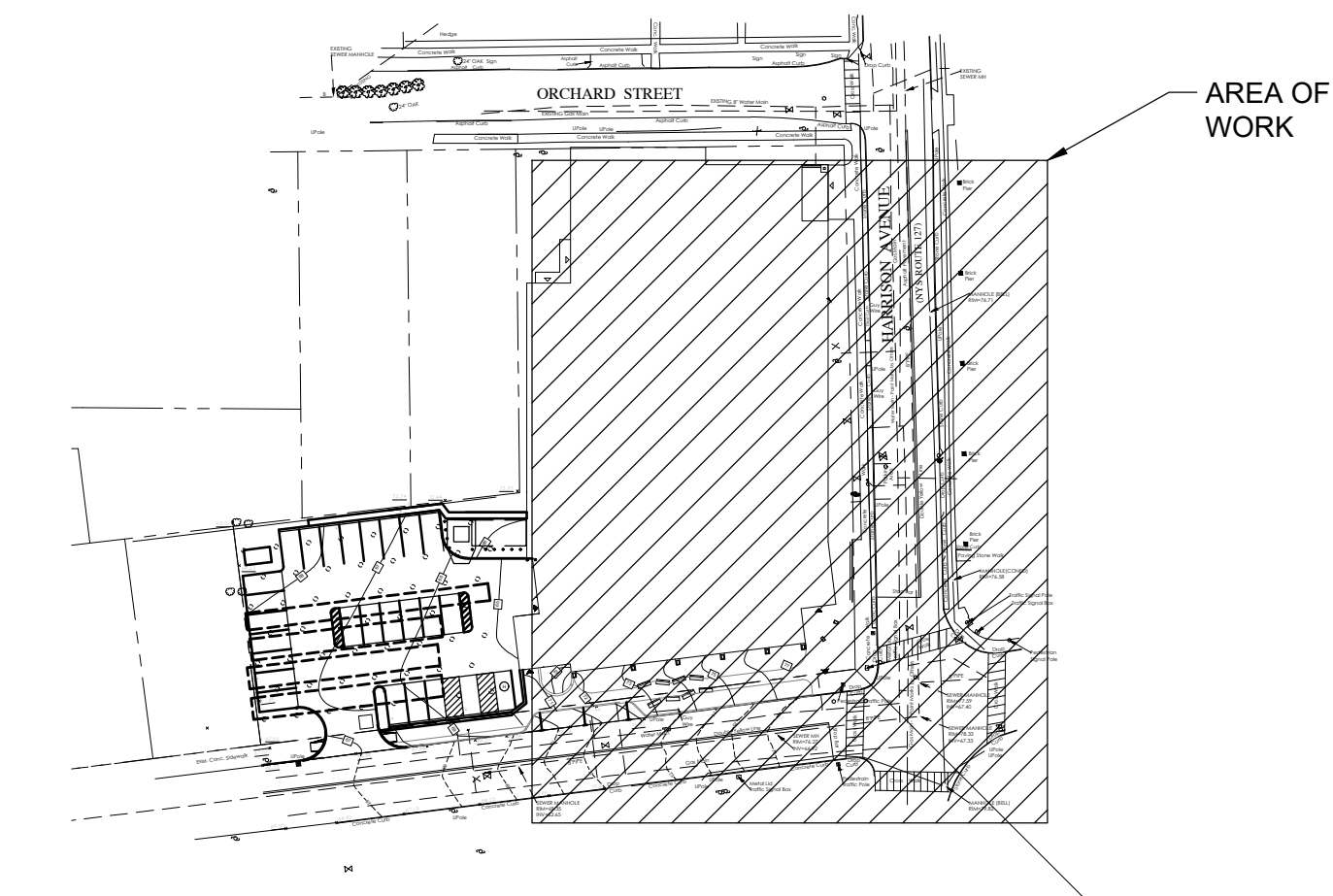


HARRISON RECREATION CENTER

PROVIDE WATERPROOF JUNCTION BOX UNDER EACH Q FIXTURE FOR TERMINATIONS, TYP.

STUB UNDERGROUND CONDUITS UP AND EXTEND 10' UP POLE. ELBOW AT POLE BASE AND POLE RISER SHALL BE RGS.

TELCO CONDUITS SHALL BE ROUTED UNDERGROUND THROUGH FOUNDATION WALL SLEEVES. REFER TO STRUCTURAL DRAWINGS FOR LOCATION AND DIMENSIONS.



1 KEY PLAN
SCALE: NONE
NORTH

2 ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"
NORTH

- NOTES:
- 1.) ALL ELECTRICAL CONDUITS ARE ROUTED UNDERGROUND, UON.
 - 2.) ALL SPARE ELECTRICAL CONDUITS SHALL BE PROVIDED WITH DRAGLINES.
 - 3.) ALL CONDUITS SHALL BE SCHEDULE 40 PVC, UON.
 - 4.) SEE DRAWING E-010 FOR CONDUIT LEGEND.

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Sheet Title

ELECTRICAL SITE PLAN

| Job No. | Date |
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| AS NOTED | JJ / ML/DS |

Sheet Number

E-011

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No. Date Issue

Sheet Title
**ELECTRICAL
PARKING
REFLECTED
CEILING PLAN**

Job No. NKGD0207.00 Date 02/21/20

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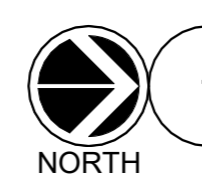
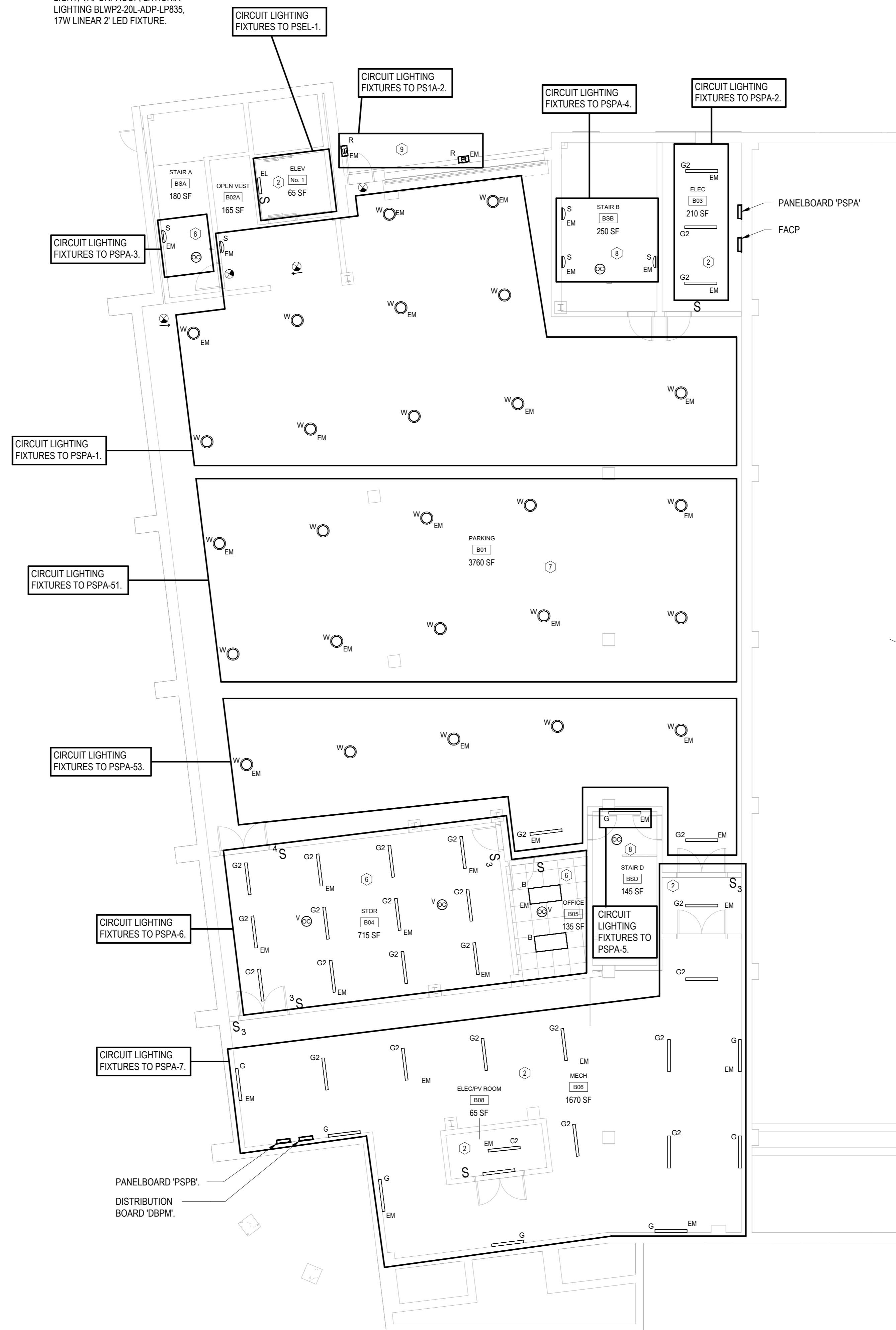
Sheet Number

E-201

LIGHTING CONTROL LEGEND:

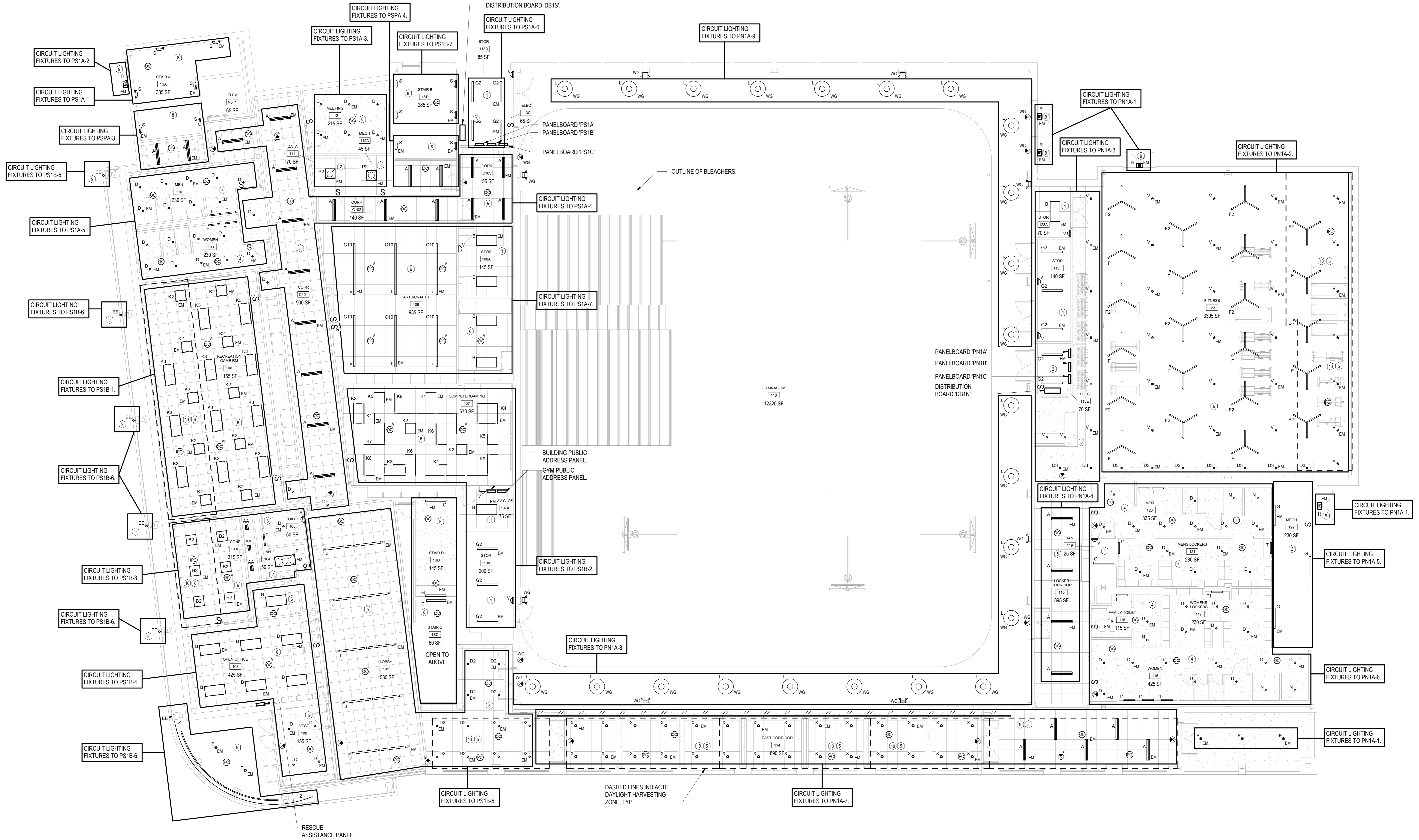
- ① - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
- ② - LINE VOLTAGE MANUAL ON/OFF WALL SWITCH.
- ③ - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- ④ - LINE VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR.
- ⑤ - TIMELOCK WITH OCCUPANCY SENSOR AFTER HOURS AND MAIN SWITCH IN RECEPTION AREA.
- ⑥ - LOW VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.
- ⑦ - TIMELOCK WITH MANUAL OVERRIDE SWITCH.
- ⑧ - TIMELOCK CONTROL. LIGHTS SHALL BE AT FULL BRIGHTNESS DURING BUSINESS HOURS. AFTER HOURS LIGHTS SHALL AUTOMATICALLY DIM TO 50% AND RETURN TO FULL BRIGHTNESS WHEN OCCUPANCY IS DETECTED VIA OCCUPANCY SENSORS.
- ⑨ - OUTDOOR PHOTOSENSOR CONTROL.

ELEVATOR LIGHTING NOTES:
1.) WALL MOUNTED ELEVATOR PIT LIGHT, VAPORPROOF, LITHONIA LIGHTING BLWP2-20L-ADP-LP835, 17W LINEAR 2' LED FIXTURE.



ELECTRICAL PARKING LEVEL REFLECTED CEILING PLAN

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



- LIGHTING CONTROL LEGEND:**
- 1 - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
 - 2 - LINE VOLTAGE MANUAL ON/OFF WALL SWITCH.
 - 3 - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
 - 4 - LINE VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR.
 - 5 - TIMELOCK WITH OCCUPANCY SENSOR AFTER HOURS AND MAIN SWITCH IN RECEPTION AREA.
 - 6 - LOW VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.
 - 7 - PHOTOCELL AND TIMELOCK WITH MANUAL OVERRIDE SWITCH.
 - 8 - TIMELOCK CONTROL, LIGHTS SHALL BE AT FULL BRIGHTNESS DURING BUSINESS HOURS, AFTER HOURS LIGHTS SHALL AUTOMATICALLY DIM TO 50% AND RETURN TO FULL BRIGHTNESS WHEN OCCUPANCY IS DETECTED VIA OCCUPANCY SENSORS.
 - 9 - OUTDOOR PHOTOSENSOR CONTROL.
 - 10 - DAYLIGHT ZONE.

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

Key Plan

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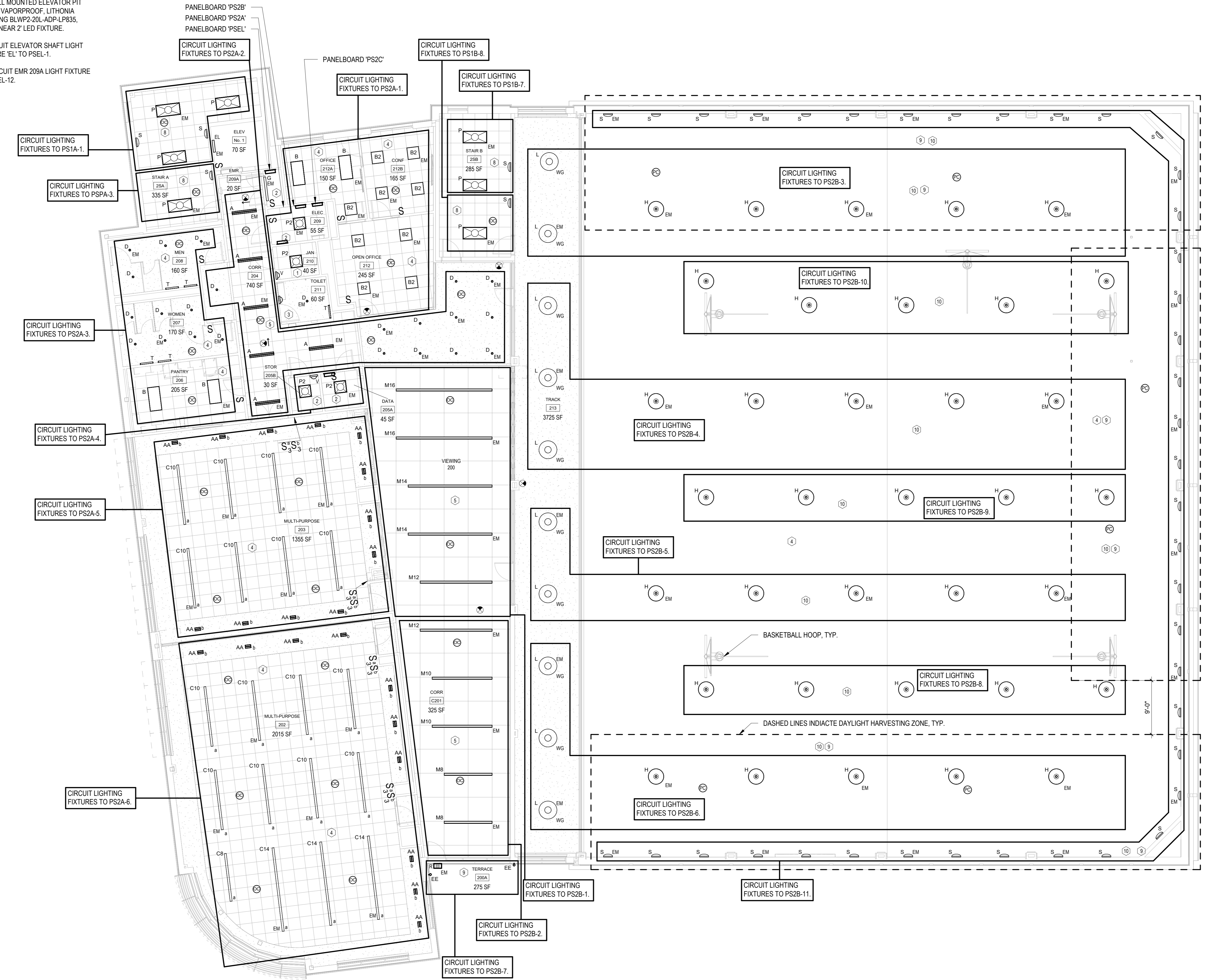
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ELECTRICAL FIRST FLOOR REFLECTED CEILING PLAN

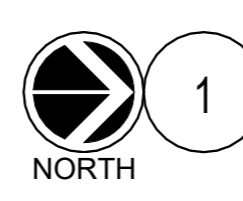
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 Sheet Number **E-202**

- ELEVATOR LIGHTING NOTES:
- 1.) WALL MOUNTED ELEVATOR PIT LIGHT, VAPORPROOF, LITHONIA LIGHTING BLWP2-20L-ADP-LP335, 17W LINEAR Z LED FIXTURE.
 - 2.) CIRCUIT ELEVATOR SHAFT LIGHT FIXTURE 'EL' TO PSEL-1.
 - 3.) CIRCUIT EMR 209A LIGHT FIXTURE TO PSEL-12.



LIGHTING CONTROL LEGEND:

- 1 - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
- 2 - LINE VOLTAGE MANUAL ON/OFF WALL SWITCH.
- 3 - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- 4 - LINE VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR.
- 5 - TIMECLOCK WITH OCCUPANCY SENSOR AFTER HOURS AND MAIN SWITCH IN RECEPTION AREA.
- 6 - LOW VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.
- 7 - PHOTOCELL AND TIMECLOCK WITH MANUAL OVERRIDE SWITCH.
- 8 - TIMECLOCK CONTROL LIGHTS SHALL BE AT FULL BRIGHTNESS DURING BUSINESS HOURS. AFTER HOURS LIGHTS SHALL AUTOMATICALLY DIM TO 50% AND RETURN TO FULL BRIGHTNESS WHEN OCCUPANCY IS DETECTED VIA OCCUPANCY SENSORS.
- 9 - DAYLIGHT ZONE.
- 10 - MANUAL ON/OFF SWITCH WITH DIMMING AND TIMECLOCK CONTROL.



ELECTRICAL SECOND FLOOR REFLECTED CEILING PLAN

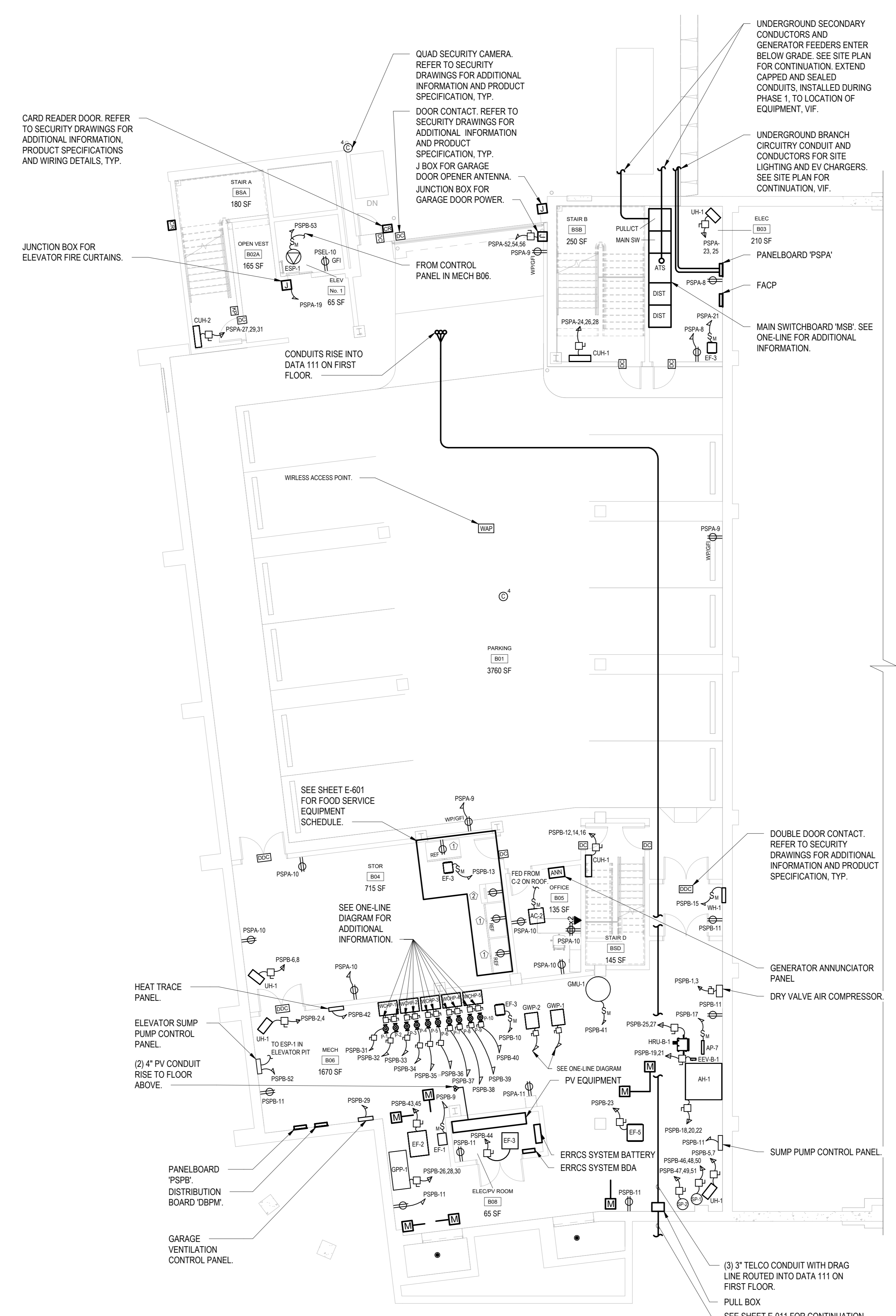
SCALE: 1/8" = 1'-0"

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No. Date Issue

**ELECTRICAL
PARKING FLOOR
PLAN**

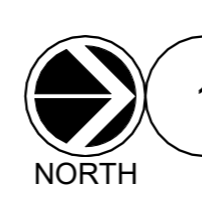
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| Sheet Number | E-301 | | |



ELECTRICAL PARKING FLOOR PLAN

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

NOTES:
1) CIRCUIT ALL MOTORIZED DAMPERS TO 'PSPB-24'.

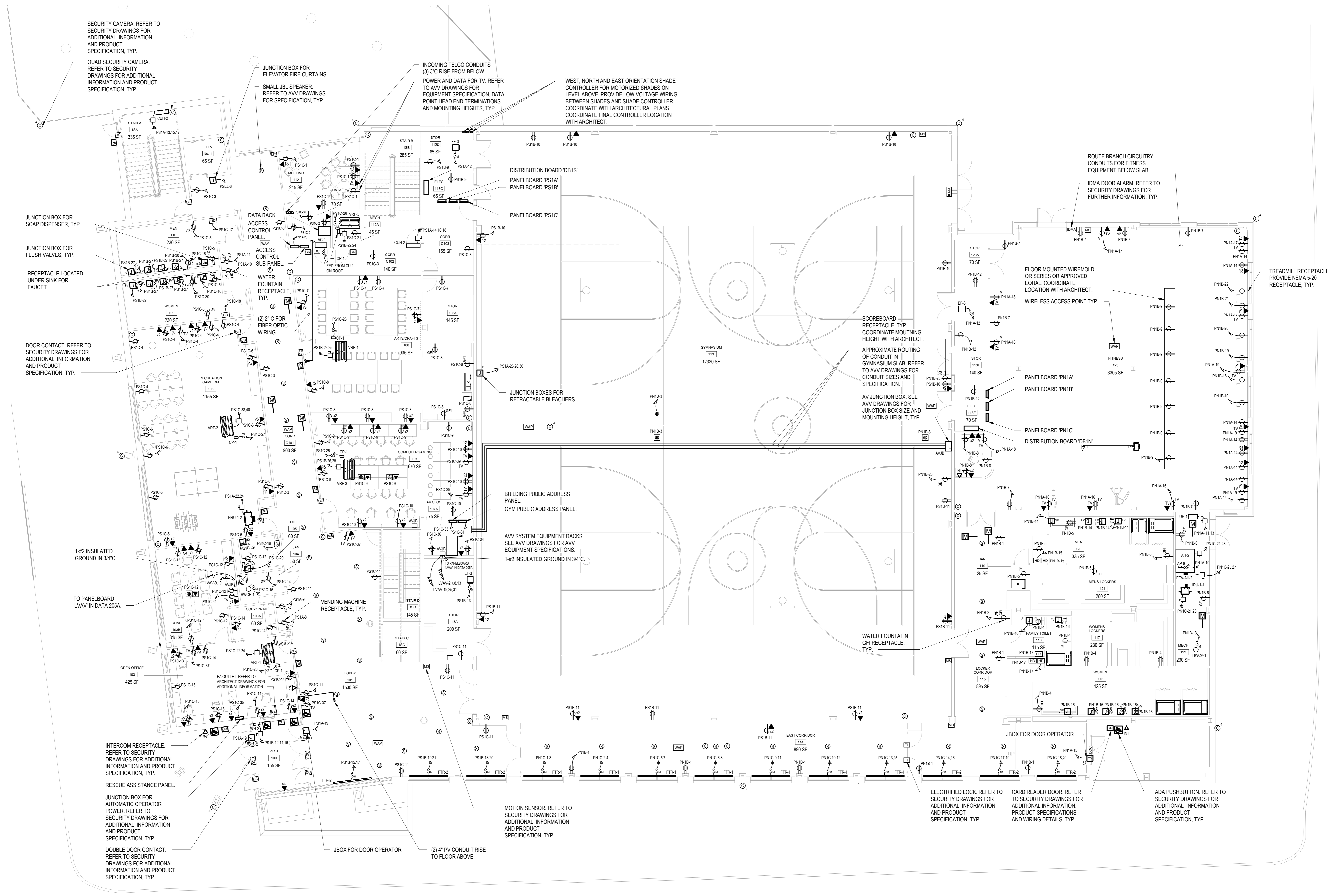


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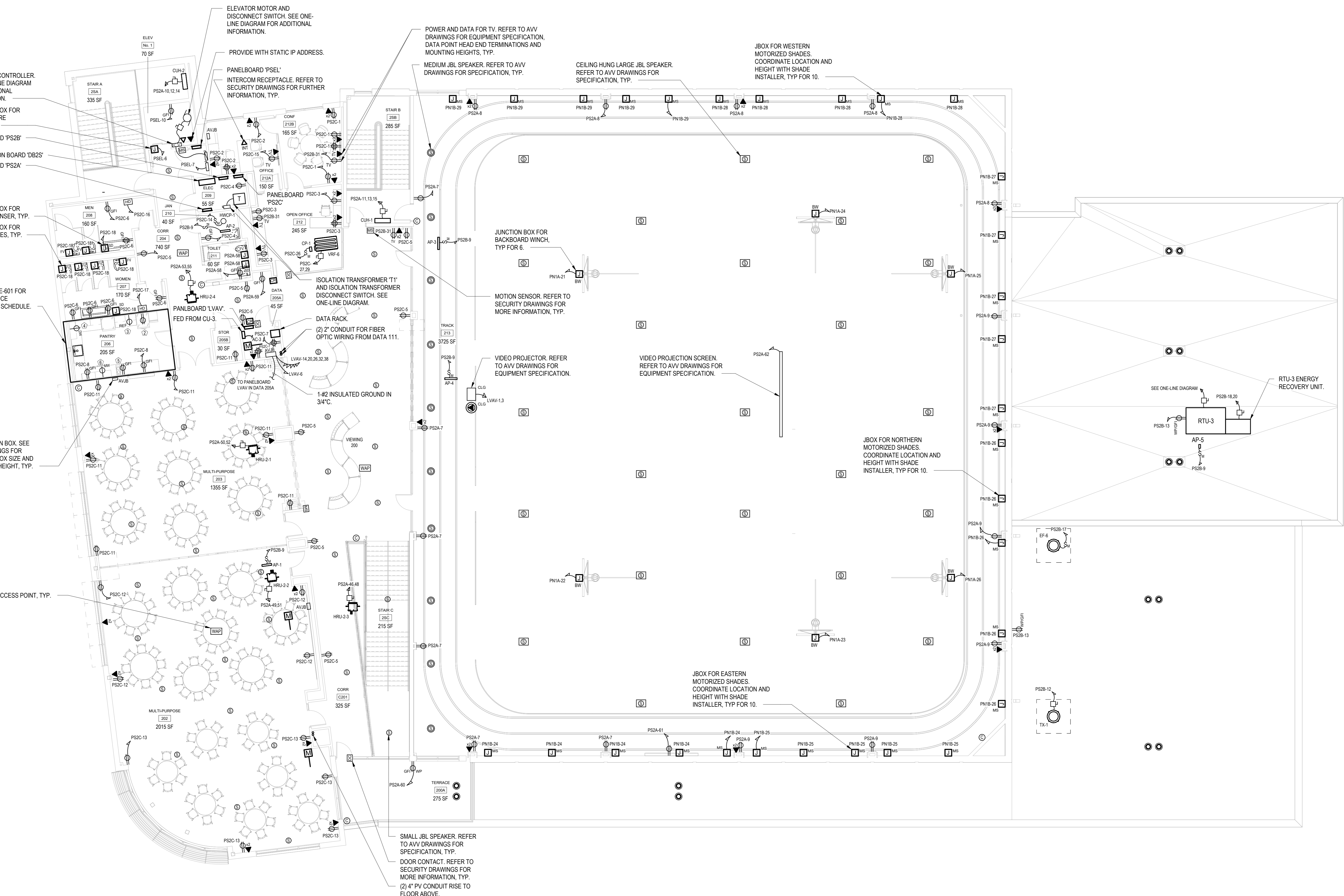
ELECTRICAL FIRST FLOOR PLAN

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

- NOTES:
 1.) CIRCUIT ALL MOTORIZED DAMPERS LOCATED ON THE SOUTH SIDE OF THE BUILDING TO PS1A-20.
 2.) CIRCUIT ALL MOTORIZED DAMPERS LOCATED ON THE NORTH SIDE OF THE BUILDING TO PN1C-22.



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

NOTES:
1.) CIRCUIT ALL MOTORIZED DAMPERS TO 'PS2C-28'.

ELEVATOR CONTROLLER. SEE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
JUNCTION BOX FOR ELEVATOR FIRE CURTAINS.
PANELBOARD 'PS2B'
DISTRIBUTION BOARD 'DB2S'
PANELBOARD 'PS2A'

JUNCTION BOX FOR SOAP DISPENSER, TYP.
JUNCTION BOX FOR FLUSH VALVES, TYP.
SEE SHEET E-601 FOR FOOD SERVICE EQUIPMENT SCHEDULE.

AV JUNCTION BOX. SEE AV DRAWINGS FOR JUNCTION BOX SIZE AND MOUNTING HEIGHT, TYP.

WIRELESS ACCESS POINT, TYP.

ELEVATOR MOTOR AND DISCONNECT SWITCH. SEE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
PROVIDE WITH STATIC IP ADDRESS.
PANELBOARD 'PSEL' INTERROOM RECEPTACLE. REFER TO SECURITY DRAWINGS FOR FURTHER INFORMATION, TYP.

POWER AND DATA FOR TV. REFER TO AV DRAWINGS FOR EQUIPMENT SPECIFICATION, DATA POINT HEAD END TERMINATIONS AND MOUNTING HEIGHTS, TYP.
MEDIUM JBL SPEAKER. REFER TO AV DRAWINGS FOR SPECIFICATION, TYP.

JBOX FOR WESTERN MOTORIZED SHADES. COORDINATE LOCATION AND HEIGHT WITH SHADE INSTALLER, TYP FOR 10.

CEILING HUNG LARGE JBL SPEAKER. REFER TO AV DRAWINGS FOR SPECIFICATION, TYP.

JUNCTION BOX FOR BACKBOARD WINCH, TYP FOR 6.

MOTION SENSOR. REFER TO SECURITY DRAWINGS FOR MORE INFORMATION, TYP.

VIDEO PROJECTOR. REFER TO AV DRAWINGS FOR EQUIPMENT SPECIFICATION.

VIDEO PROJECTION SCREEN. REFER TO AV DRAWINGS FOR EQUIPMENT SPECIFICATION.

JBOX FOR NORTHERN MOTORIZED SHADES. COORDINATE LOCATION AND HEIGHT WITH SHADE INSTALLER, TYP FOR 10.

JBOX FOR EASTERN MOTORIZED SHADES. COORDINATE LOCATION AND HEIGHT WITH SHADE INSTALLER, TYP FOR 10.

SMALL JBL SPEAKER. REFER TO AV DRAWINGS FOR SPECIFICATION, TYP.
DOOR CONTACT. REFER TO SECURITY DRAWINGS FOR MORE INFORMATION, TYP.
(2) 4" PV CONDUIT RISE TO FLOOR ABOVE.

ELEV. 70 SF

STAIR A [28A] 335 SF

STAIR B [28B] 285 SF

STAIR C [28C] 215 SF

TERRACE [200A] 275 SF

VIEWING 300

DATA RACK [20A]

ISOLATION TRANSFORMER T1 AND ISOLATION TRANSFORMER DISCONNECT SWITCH. SEE ONE-LINE DIAGRAM.

(2) 2" CONDUIT FOR FIBER OPTIC WIRING FROM DATA 111.

1-#2 INSULATED GROUND IN 3/4" C.

PANBOARD LVAV. FED FROM CU-3.

DATA [20A]

VIEWING 300

VIEWING 300

VIEWING 300

VIEWING 300

VIEWING 300

VIEWING 300

VIEWING 300

VIEWING 300

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CONSTRUCTION DOCUMENTS

Key Plan

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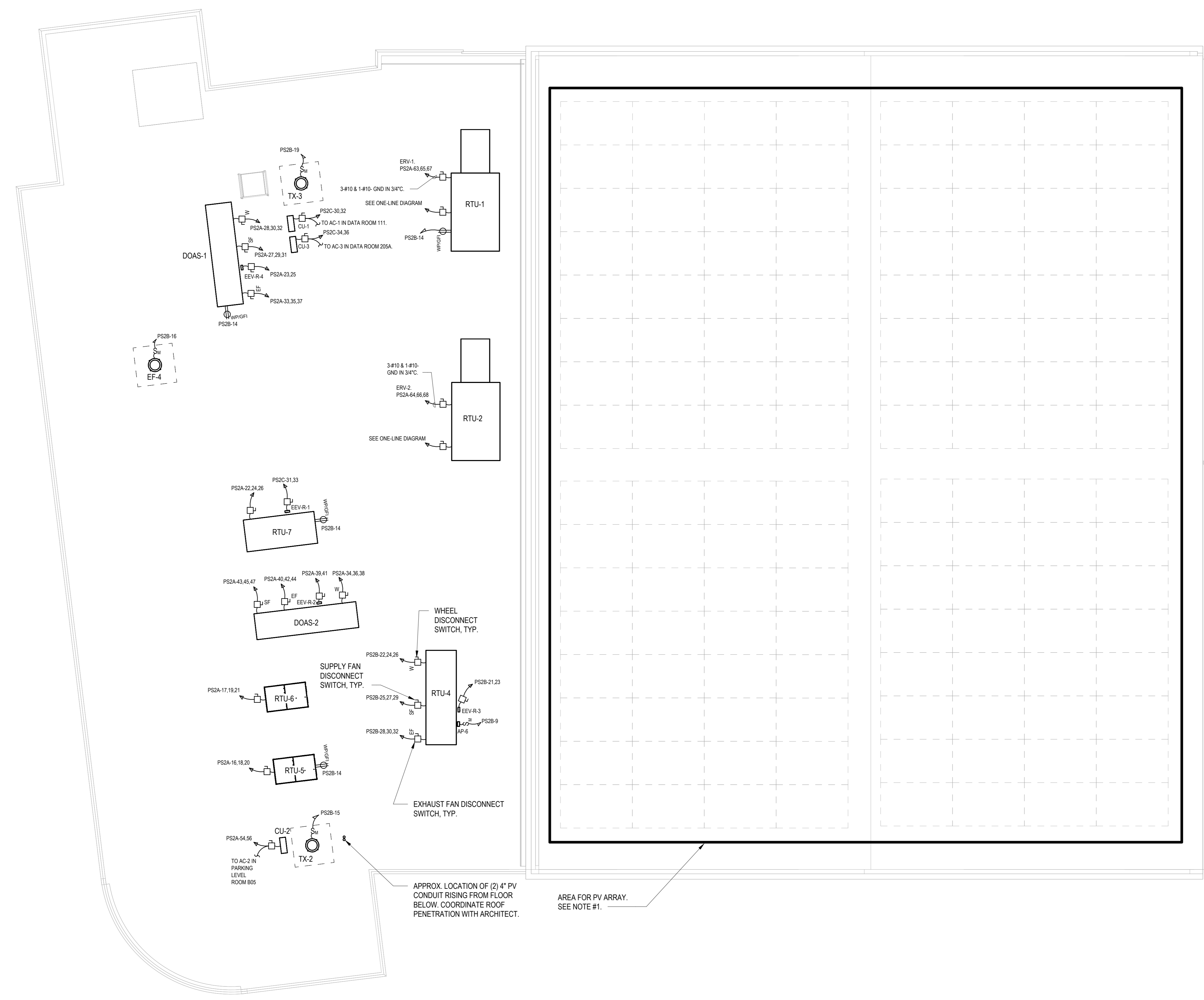
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ELECTRICAL ROOF PLAN

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| Job No. | Date |
| NKGD0207.00 | 02/21/20 |
| Scale | Drawn / Checked |
| AS NOTED | VB / ML |

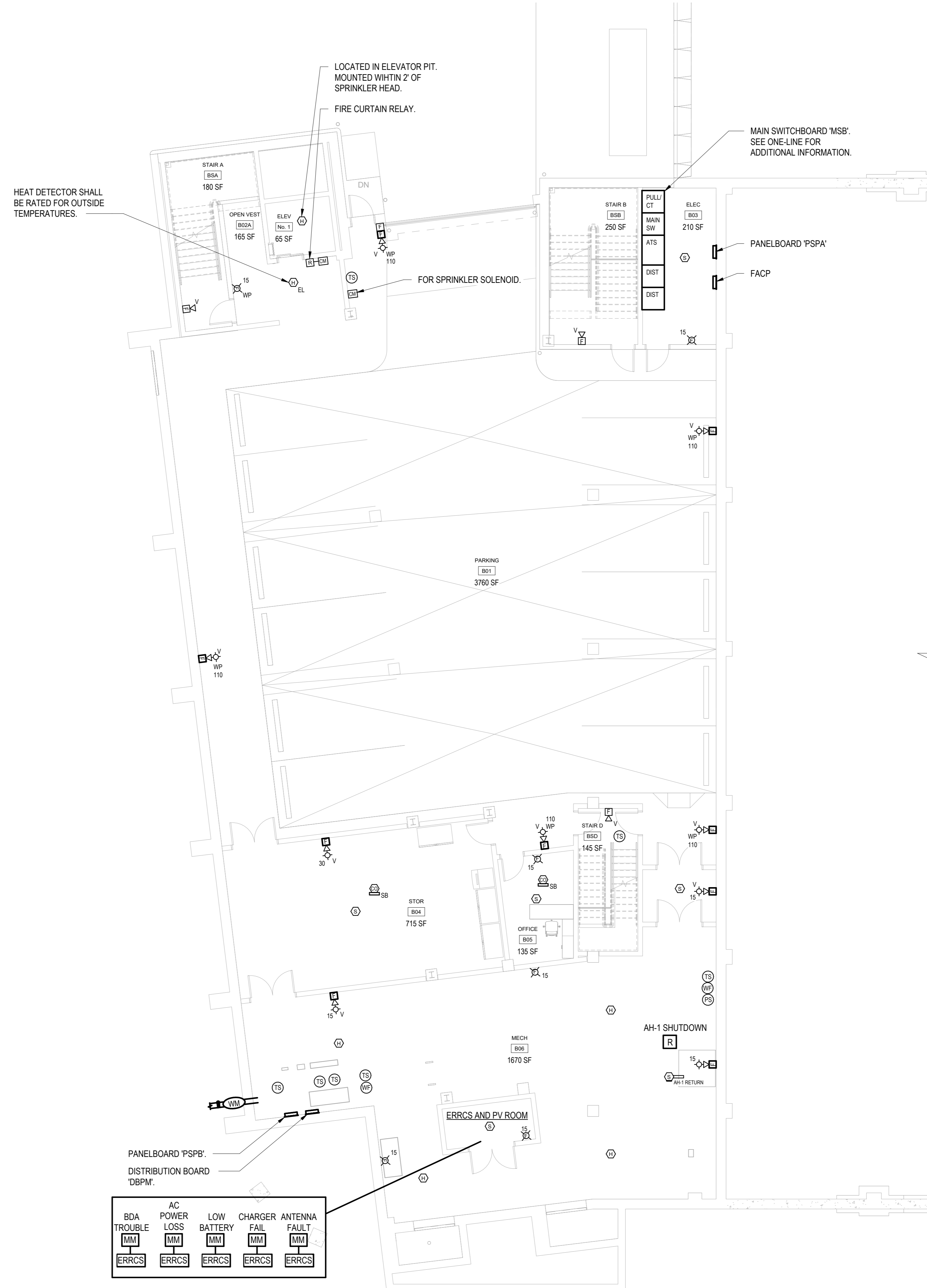
Sheet Number

E-304



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

NOTES:
1.) PV ARRAY SHALL BE APPROXIMATELY 170KW CAPACITY. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR A DELEGATED DESIGN INCLUDING ALL NECESSARY COMPONENTS, WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM.



1 FIRE ALARM PARKING FLOOR PLAN
SCALE: 1/8" = 1'-0"
NORTH

Key Plan

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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

No. Date Issue

Sheet Title

**FIRE ALARM
PARKING FLOOR
PLAN**

| | |
|-------------|-----------------|
| Job No. | Date |
| NKGD0207.00 | 02/21/20 |
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Sheet Number

E-401

**HARRISON
RECREATION &
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CENTER**

New Construction - Phase 2

Town / Village of Harrison

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Key Plan

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| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

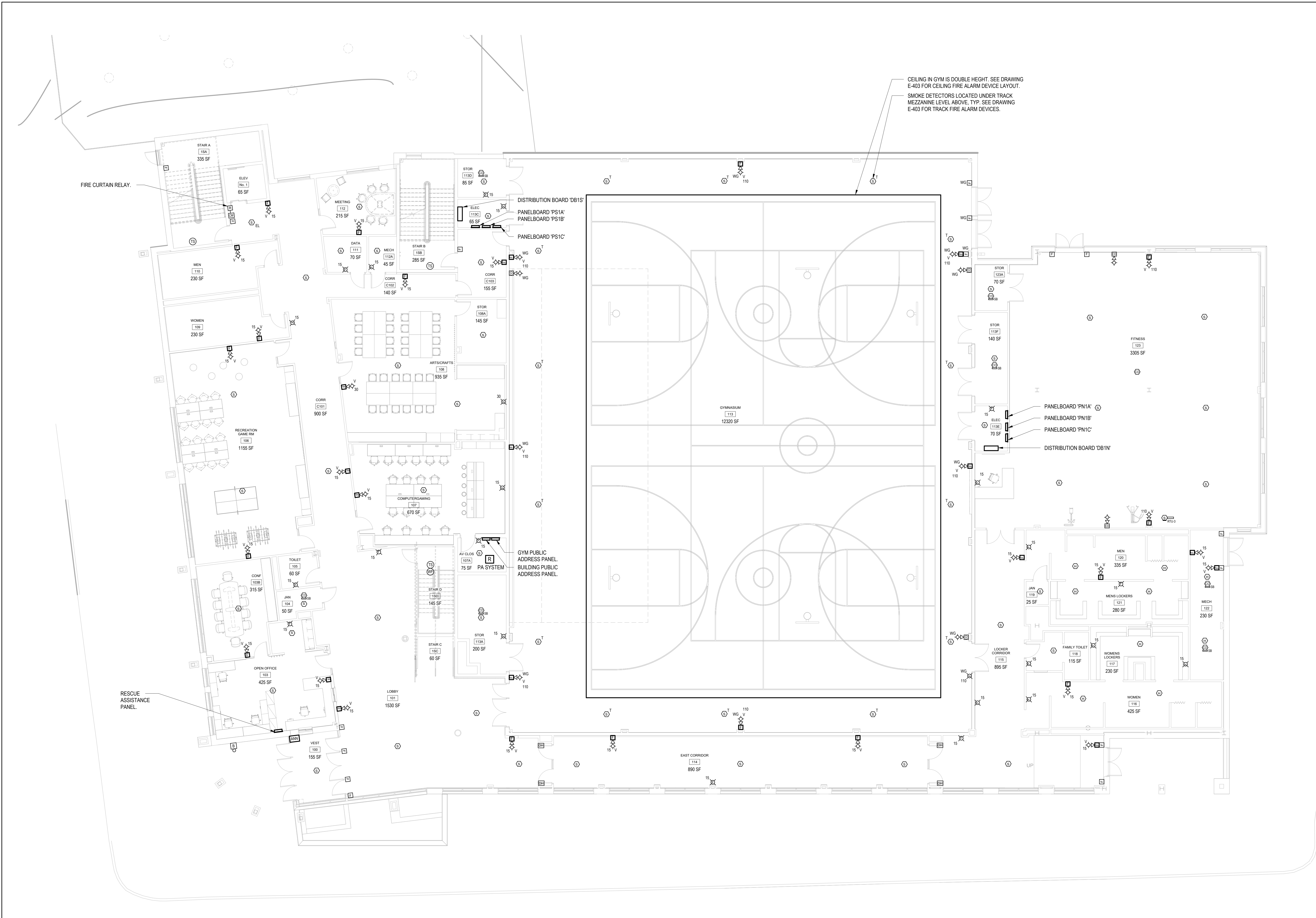
No. Date Issue

Sheet Title

**FIRE ALARM FIRST
FLOOR PLAN**

| | |
|--------------|-----------------|
| Job No. | Date |
| NKGD0207.00 | 02/21/20 |
| Scale | Drawn / Checked |
| AS NOTED | VB / ML |
| Sheet Number | |

E-402

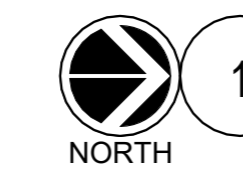


CEILING IN GYM IS DOUBLE HEIGHT. SEE DRAWING E-403 FOR CEILING FIRE ALARM DEVICE LAYOUT.
SMOKE DETECTORS LOCATED UNDER TRACK MEZZANINE LEVEL ABOVE. TYP. SEE DRAWING E-403 FOR TRACK FIRE ALARM DEVICES.

FIRE CURTAIN RELAY.

RESCUE ASSISTANCE PANEL.

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



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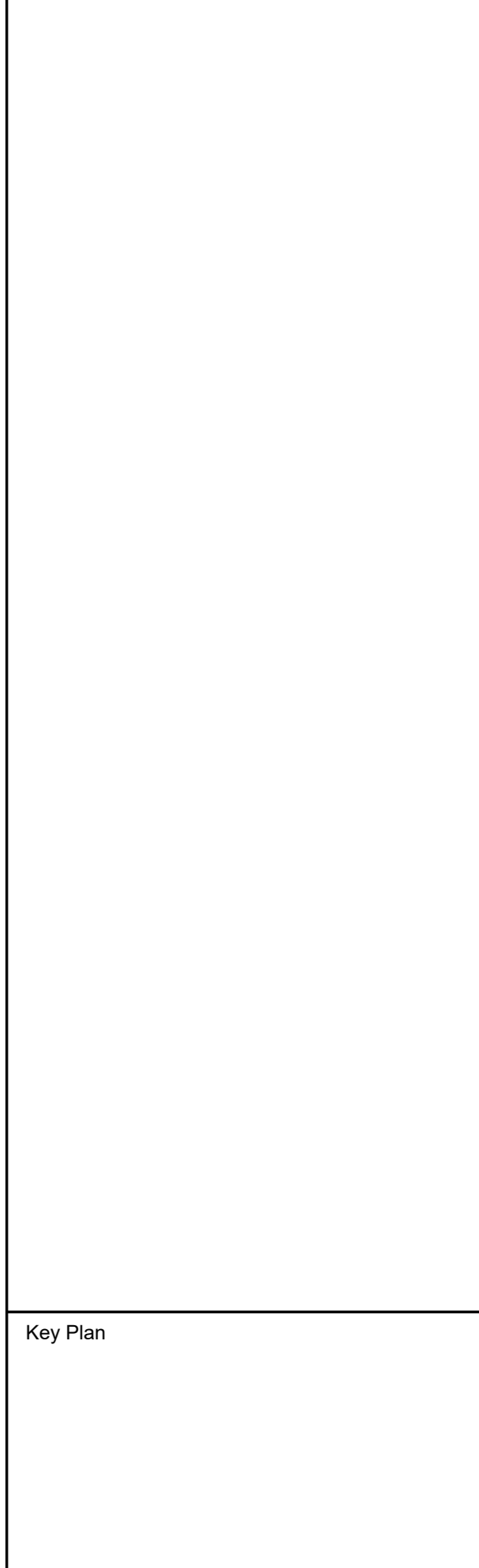
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Key Plan



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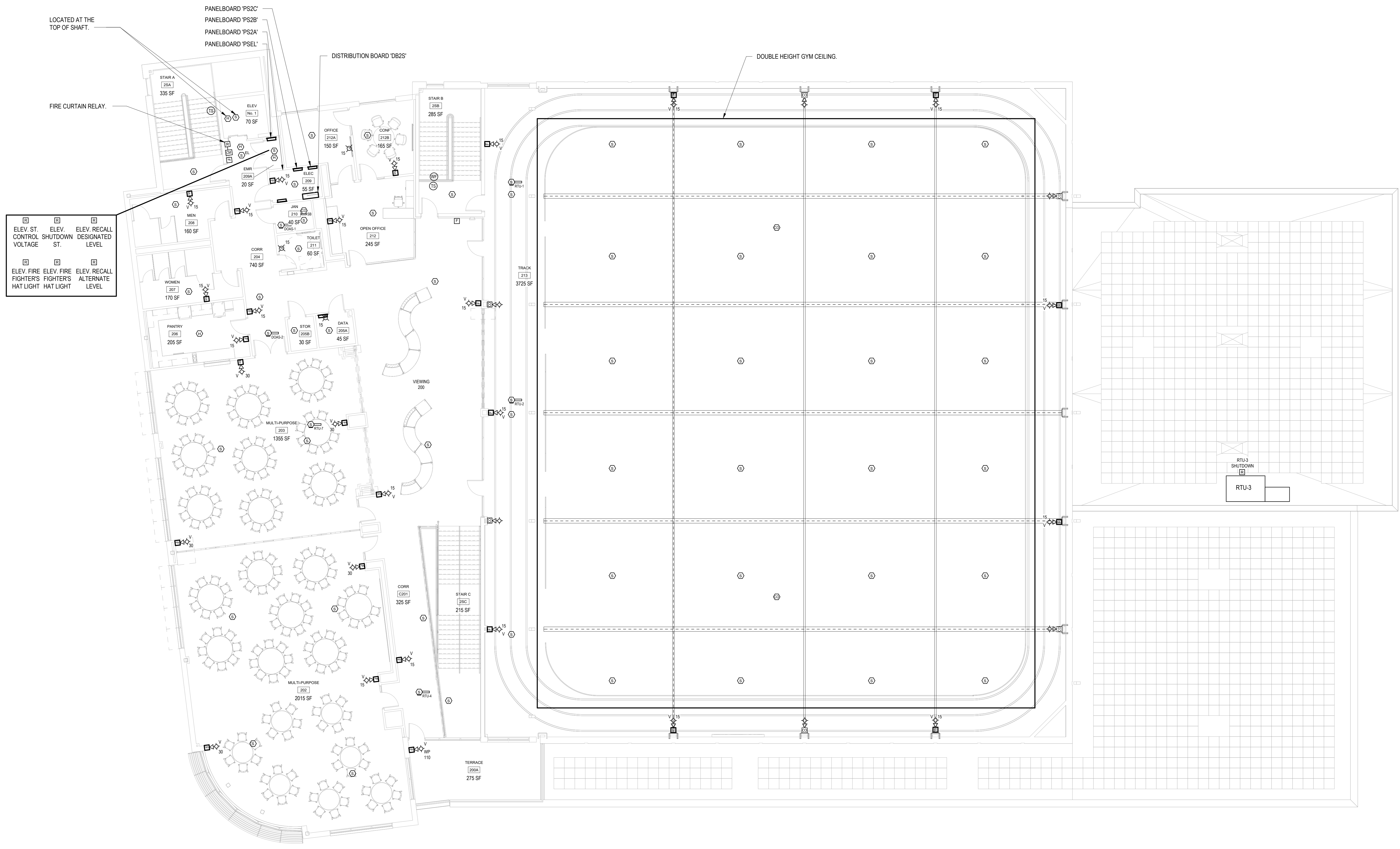
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FIRE ALARM SECOND FLOOR PLAN

Job No. NKG0207.00 Date 02/21/20
Scale AS NOTED Drawn / Checked VB / ML

Sheet Number
E-403



1 FIRE ALARM SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"
NORTH

**HARRISON
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New Construction - Phase 2
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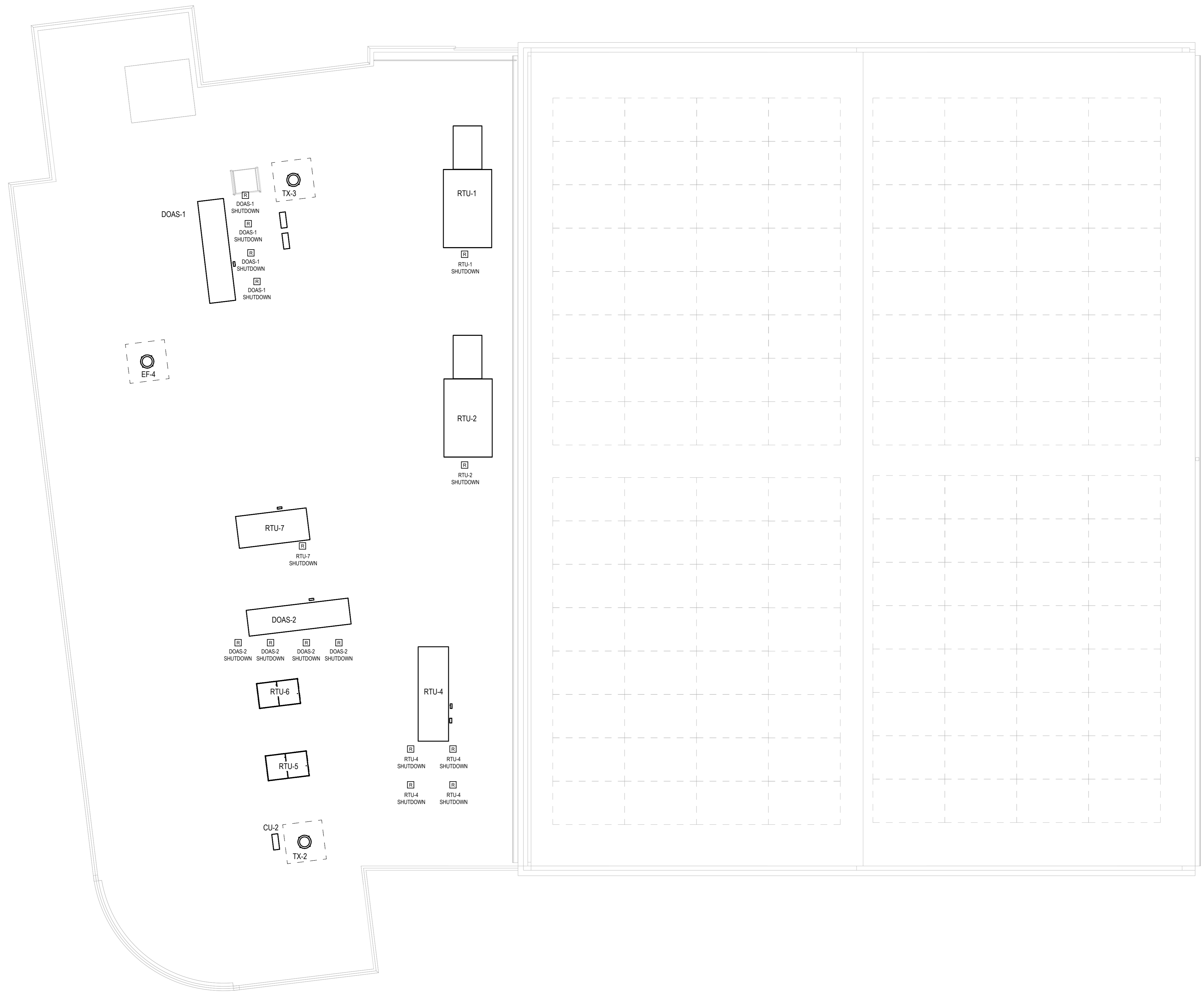
Professional Seal

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FIRE ALARM ROOF PLAN

| | |
|-------------|-----------------|
| Job No. | Date |
| NKGD0207.00 | 02/21/20 |
| Scale | Drawn / Checked |
| AS NOTED | VB / ML |

Sheet Number
E-404



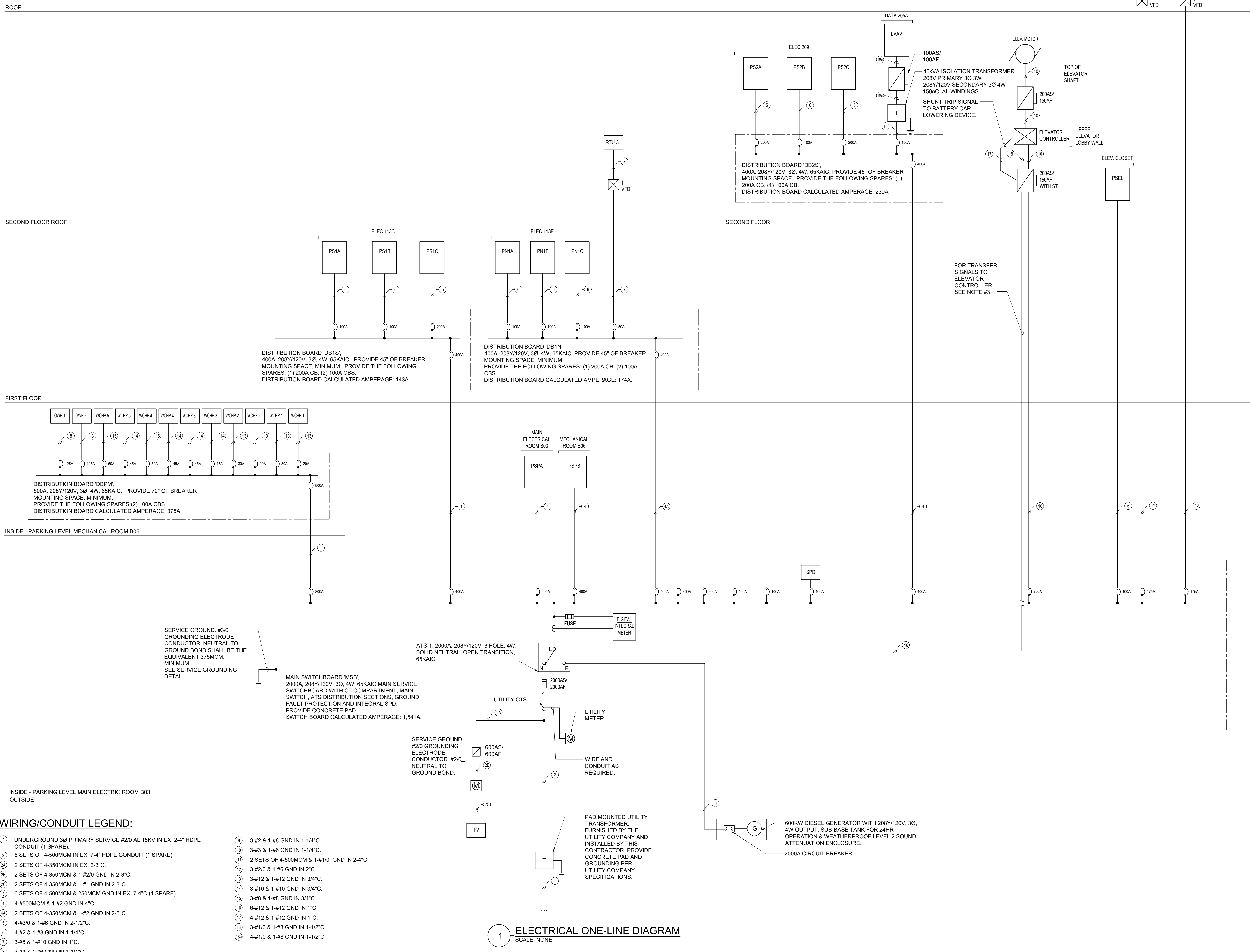
1 FIRE ALARM ROOF PLAN
SCALE: 1/8" = 1'-0"
NORTH

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS



- WIRING/CONDUIT LEGEND:**
- ① UNDERGROUND 3Ø PRIMARY SERVICE #2/0 AL 15KV IN EX. 2-4" HDPE CONDUIT (1 SPARE).
 - ② 2 SETS OF 4-500MCM IN EX. 7-4" HDPE CONDUIT (1 SPARE).
 - ②A 2 SETS OF 4-350MCM IN EX. 2-3".
 - ②B 2 SETS OF 4-350MCM & 1-#2/0 GND IN 2-3".
 - ②C 2 SETS OF 4-350MCM & 1-#1 GND IN 2-3".
 - ③ 6 SETS OF 4-500MCM & 250MCM GND IN EX. 7-4" (1 SPARE).
 - ④ 4-#500MCM & 1-#2 GND IN 4".
 - ④A 2 SETS OF 4-350MCM & 1-#2 GND IN 2-3".
 - ⑤ 4-#3/0 & 1-#6 GND IN 2-1/2".
 - ⑥ 4-#2 & 1-#8 GND IN 1-1/4".
 - ⑦ 3-#6 & 1-#10 GND IN 1".
 - ⑧ 3-#4 & 1-#6 GND IN 1-1/4".
 - ⑨ 3-#2 & 1-#8 GND IN 1-1/4".
 - ⑩ 3-#3 & 1-#6 GND IN 1-1/4".
 - ⑪ 2 SETS OF 4-500MCM & 1-#1/0 GND IN 2-4".
 - ⑫ 3-#2/0 & 1-#6 GND IN 2".
 - ⑬ 3-#12 & 1-#12 GND IN 3/4".
 - ⑭ 3-#10 & 1-#10 GND IN 3/4".
 - ⑮ 3-#8 & 1-#8 GND IN 3/4".
 - ⑯ 6-#12 & 1-#12 GND IN 1".
 - ⑰ 4-#12 & 1-#12 GND IN 1".
 - ⑱ 3-#1/0 & 1-#8 GND IN 1-1/2".
 - ⑲A 4-#1/0 & 1-#8 GND IN 1-1/2".

1 ELECTRICAL ONE-LINE DIAGRAM
SCALE: NONE

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Sheet Title

ELECTRICAL ONE-LINE DIAGRAM

| Job No. | Date |
|-------------|------------|
| NKGD0207.00 | 03/01/2024 |

| Scale | Drawn / Checked |
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| AS NOTED | JJ / ML/DS |

Sheet Number

E-501

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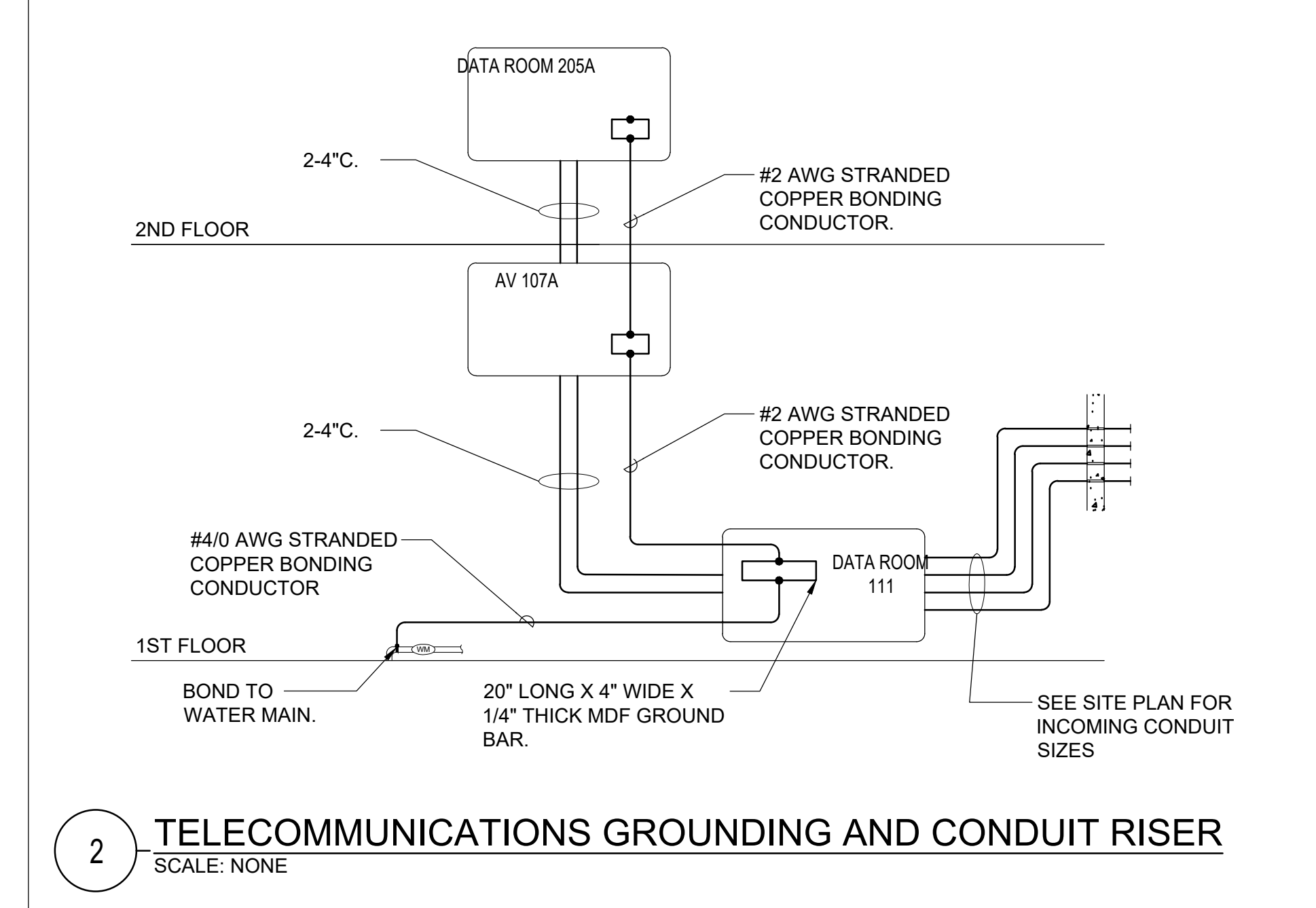
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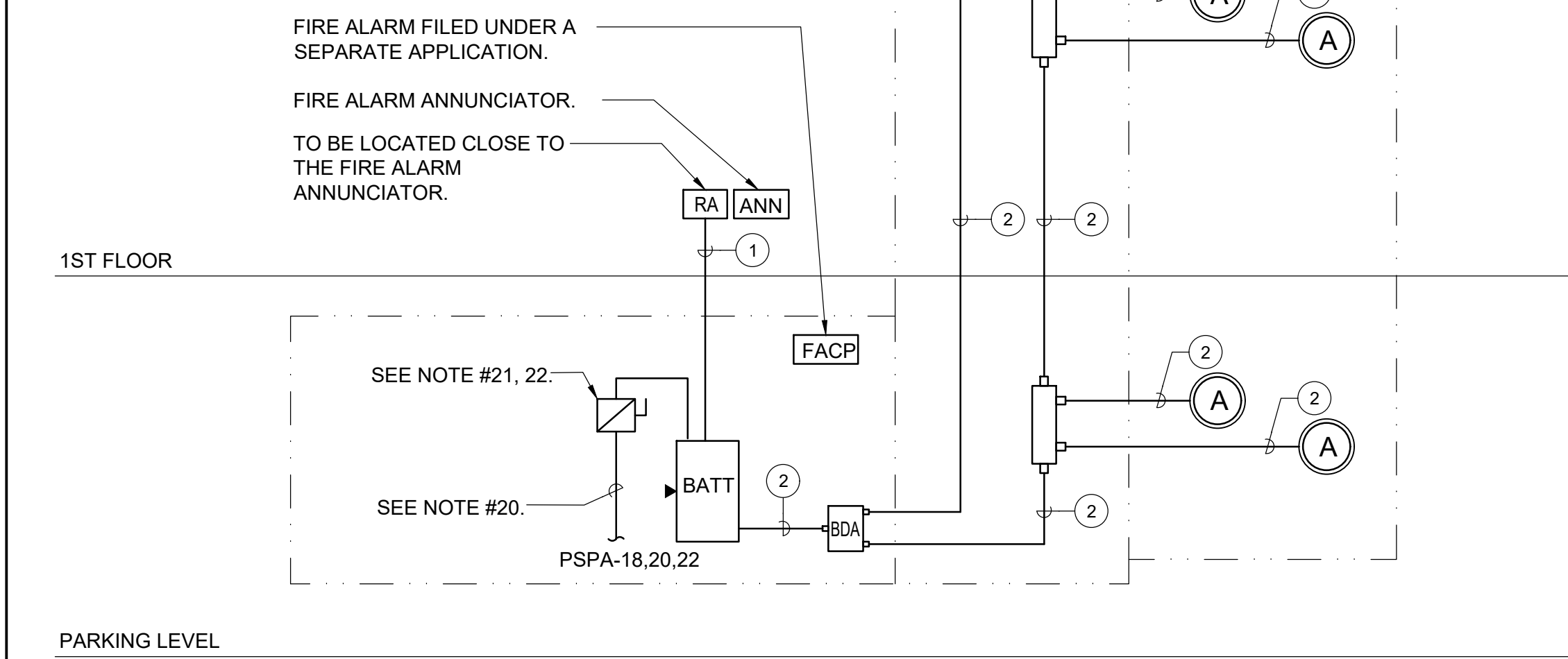
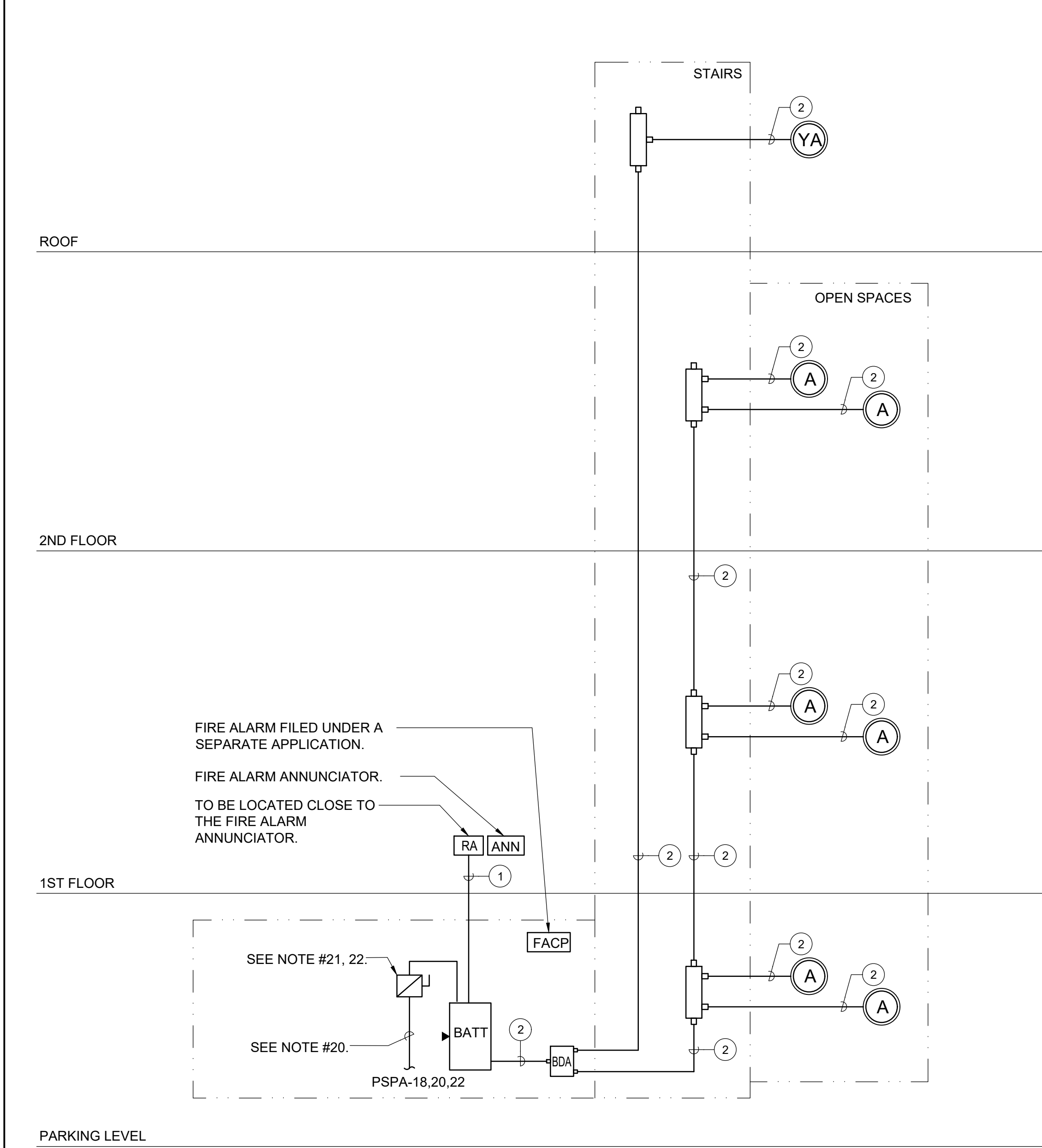
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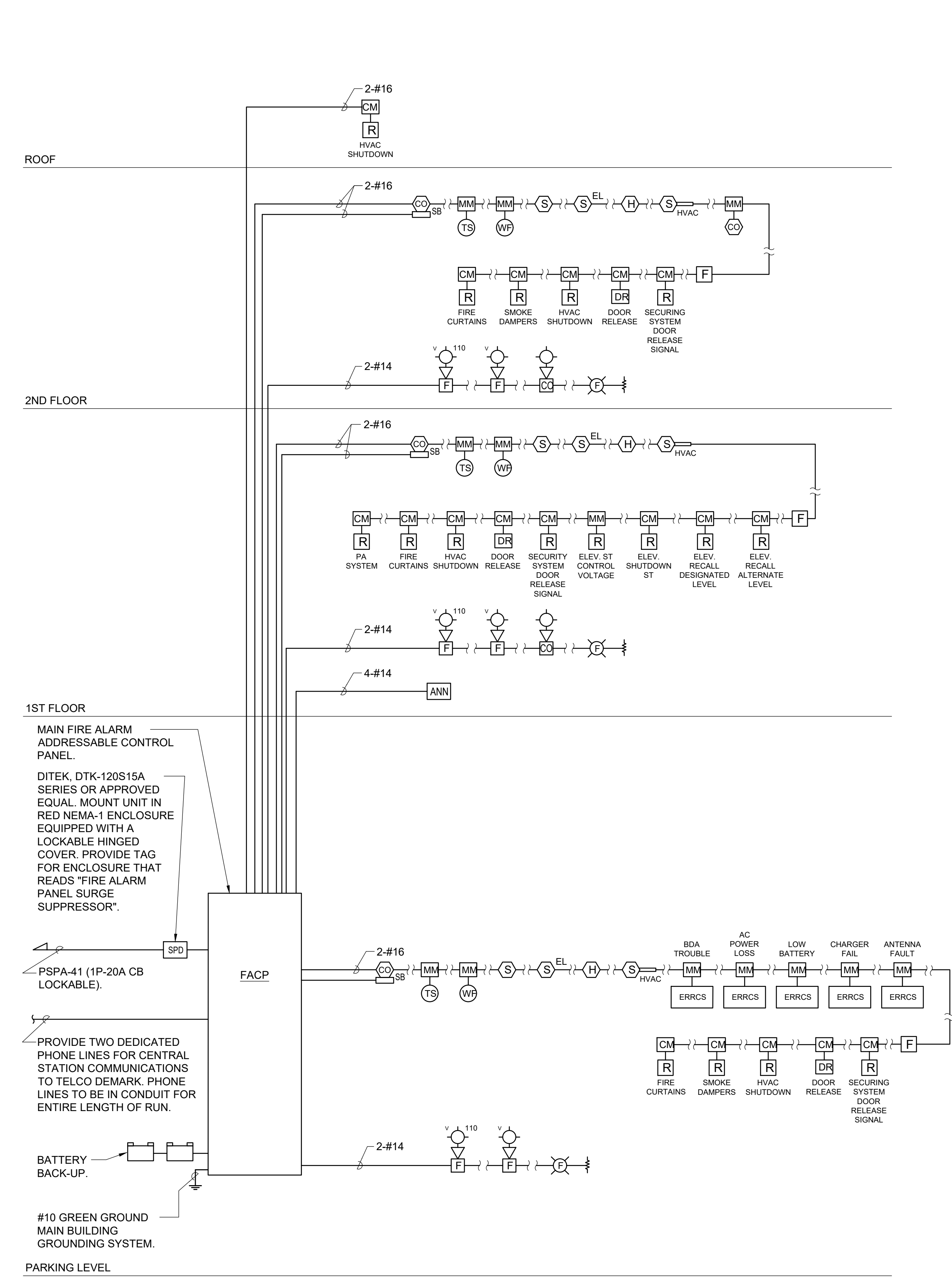
CONSTRUCTION DOCUMENTS



2 TELECOMMUNICATIONS GROUNDING AND CONDUIT RISER
SCALE: NONE



3 FIRE RADIO RISER DIAGRAM
SCALE: NONE



1 FIRE ALARM RISER DIAGRAM
SCALE: NONE

| SYMBOLS AND ABBREVIATIONS | | | SYMBOLS AND ABBREVIATIONS | | |
|---------------------------|--------------|---------------------------------------|---|--------------|------------------------|
| SYMBOL | ABBREVIATION | DESCRIPTION | SYMBOL | ABBREVIATION | DESCRIPTION |
| | - | FUSED DISCONNECT SWITCH | | C | CONDUIT |
| | - | UNFUSED DISCONNECT SWITCH | | CKT | CIRCUIT |
| | - | TAPPER | | CLG | CEILING |
| | - | EQUAL POWER DIVIDER | | COL | COLUMN |
| | - | RY012NQ_POLOMARCONI ANTENNA | | DWG | DRAWING |
| | - | TOWERLINEQ SLC RISER | | ELEV | ELEVATOR |
| | FACP | FIRE ALARM CONTROL PANEL | | FCS | FIRE COMMAND STATION |
| | BATT | BATTERY BACK-UP WITH INTERNAL CHARGER | | PS | POWER SUPPLY |
| | BDA | BI-DIRECTIONAL AMPLIFIER BOOSTER | | SW | SWITCH(ES) |
| | - | YAGI ANTENNA WITH MOUNTING HARDWARE | | TYP | TYPICAL |
| | - | REMOTE ANNUNCIATOR | | UON | UNLESS OTHERWISE NOTED |
| A | AMPERE(S) | | NOTES: 1.) ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT. | | |
| BLDG | BUILDING | | | | |

WIRING/CONDUIT LEGEND:

- ① CONTROL CABLING: CAT-5e.
- ② 2-HR RATED CO-AUX CABLE IN 3/4" THAT MEETS NFPA 72, 1221 AND UL 2196 SIMILAR TO DRAGON SKIN 2HB12-50JPLR OR APPROVED EQUAL.

NOTES:

1. RISER CABLING: PRIMARY DISTRIBUTION CABLE FOR R/F POWER IS NOT EXCLUSIVELY INSTALLED VERTICALLY.
2. BRANCH CABLING: LAST LEG DISTRIBUTION CABLE FOR R/F POWER, TYPICALLY INSTALLED ON A SINGLE FLOOR AND FEEDS ANTENNAS.
3. ALL BRANCH CABLING MUST BE ENCASED IN THE CONCRETE DECK OR OTHERWISE PROVIDED WITH TWO HOURS SURVIVABILITY.
4. CONTROL CABLING: CAT-5E. ALL CONTROL CABLING IS TO BE INSTALLED INSIDE A TWO-HOUR RATED SHAFT WAY.
5. ALL RISER CABLING IS 1/2" AIR DIELECTRIC CABLE, RED, PRINTED "FIRE DEPARTMENT COMMUNICATIONS USE" TO BE INSTALLED AND SECURED PER MANUFACTURER RECOMMENDATIONS.
6. INSTALLING CONTRACTOR TO DETERMINE FINAL DBM VALUES OF RF COMPONENTS.
7. WHERE RISER AND/OR BRANCH CABLING IS EXPOSED TO GENERAL PUBLIC, MUST BE MECHANICALLY PROTECTED AGAINST ACCIDENTAL AND INTENTIONAL DAMAGE.
8. ALL BRANCH CABLING IS 1/2" AIR DIELECTRIC CABLE WITH PLENUM RATING TO BE INSTALLED AND SECURED PER MANUFACTURER RECOMMENDATIONS.
9. RADIO AMPLIFICATION UNIT (RAU) BY TOWERIQ MODEL TAC-R414 OR CURRENT MODEL. RAU MUST BE LOCATED IN TWO HOUR RATED ROOM.
10. ALL COAXIAL CONNECTORS ARE TO BE N-TYPE CONNECTORS.
11. WHERE ANY ELECTRICAL AND R/F CONNECTION IS MADE, PHYSICAL ACCESS MUST BE AVAILABLE.
12. RAU REQUIRES A 15 30R ELECTRICAL CONNECTION TO LIFE SAFETY SOURCE. PROVIDE WITH A LOCKABLE FUSE DISCONNECT.
13. ALL INSTALLED CABLING AND COMPONENTS, WHERE PHYSICALLY ACCESSIBLE ARE TO BE LABELED "EMERGENCY RESPONDER COMMUNICATIONS USE," AT A MINIMUM INTERVAL OF 6'.
14. RAU MUST BE PROVIDED WITH INTERNET CONNECTIVITY VIA RJ-45 RECEPTACLE.
15. WHEN ENCASED IN THE DECK ALL CABLES MUST BE INSTALLED IN PROPERLY SIZED CONDUIT WITH CONSIDERATIONS FOR PULL BOXES, TURN CONNECTORS AND OTHER IN-LINE DEVICES.
16. PROVIDE FUSE QUANTITIES AND SIZES AS REQUIRED FOR SYSTEM.
17. PROVIDE WIRING AND CONDUIT AS REQUIRED.
18. NEW YORK STATE APPROVED CABINET WITH NYS/FDNY KEY AND LOCKABLE DOOR. (FCO).
19. 5-#10 IN 1".
20. 4-#4 & 1-#6 GND IN 1-1/4" FROM 3P-60A CB IN PANELBOARD. QUANTITY OF PHASE CONDUCTORS SHOWN FOR INFORMATION ONLY. PROVIDE NUMBER OF PHASE CONDUCTORS AS REQUIRED.
21. 60AS/60AF. SIZE OF FUSES SHOWN FOR INFORMATION ONLY. SIZE FUSES AND PROVIDE NUMBER OF FUSES AS REQUIRED.
22. ERRCS DISCONNECT SWITCH.
23. SEE FLOOR PLANS FOR EQUIPMENT QUANTITIES AND LOCATIONS. RISER IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANT WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM A SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.

RISER NOTES:

- 1.) THIS IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANY WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM FIRE ALARM SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.
- 2.) ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID ALL 120V CIRCUITS THAT ARE REQUIRED TO SUPPORT THE OPERATION OF THE FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH THE FIRE ALARM VENDOR.
- 3.) QUANTITY OF STROBE BOOSTER POWER SUPPLY PANELS AND ASSOCIATED 120V CIRCUITS SHALL BE COORDINATED WITH SELECTED FIRE ALARM SYSTEM MANUFACTURER AND/OR FIRE ALARM VENDOR.
- 4.) PROVIDE ALL NECESSARY HARDWARE AND PROGRAMMING TO PROVIDE THE CLIENT WITH 20% SPARE CAPACITY ON ALL INITIATING AND INDICATING CIRCUITS.
- 5.) PROVIDE AS PART OF THE BASE CONTRACT ALL LABOR AND MATERIALS TO INSTALL TWENTY (20) ADDITIONAL FIRE ALARM DEVICES DURING CONSTRUCTION. THE TWENTY (20) FIRE ALARM DEVICES CAN BE BUT NOT LIMITED TO SMOKE DETECTOR, HEAT DETECTOR, DOOR HOLDER, DUCT DETECTOR, FAN SHUTDOWN, TAMPER SWITCHES, FLOW SWITCHES, ETC. INCLUDE ALL LABOR AND MATERIALS INCLUDING WIRE, BOXES, CONDUIT, TERMINATIONS, HARDWARE, SOFTWARE, PROGRAMMING AND TESTING.
- 6.) HEAT DETECTORS IN ELEVATOR MACHINE ROOM AND/OR SHAFT SHALL HAVE A LOWER TEMPERATURE RATING THAN THE NEARBY SPRINKLER HEAD(S). HEAT DETECTORS SHALL BE INSTALLED 2'-0" MAXIMUM AWAY FROM EACH SPRINKLER HEAD IN THE ELEVATOR MACHINE ROOM AND EACH HEAD LOCATED GREATER THAN 2'-0" ABOVE THE FLOOR OF THE ELEVATOR SHAFT. UPON ACTIVATION OF A HEAT DETECTOR USED FOR ELEVATOR POWER SHUTDOWN, THERE SHALL BE A DELAY IN THE ACTIVATION OF THE POWER SHUNT TRIP. THIS DELAY SHALL BE THE TIME THAT IT TAKES THE ELEVATOR CAB TO TRAVEL FROM THE TOP OF THE HOISTWAY TO THE LOWEST RECALL LEVEL. COORDINATE WITH ELEVATOR CONTRACTOR.
- 7.) DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN DUCT WORK BY MECHANICAL CONTRACTOR.
- 8.) CARBON MONOXIDE AND NATURAL GAS DETECTORS SHALL BE SUPERVISED BY FIRE ALARM SYSTEM BUT SHALL NOT SEND AN ALARM SIGNAL TO THE SYSTEM. THESE DETECTORS SHALL CONTAIN INTERNAL HORNS TO PROVIDE LOCAL ALARM ONLY, UON.
- 9.) ALL VISUAL ALARM DEVICES SHALL BE ADA COMPLIANT.
- 10.) ELECTRICAL CONTRACTOR TO PROVIDE A RELAY FOR EACH SMOKE DAMPER/COMBINATION FIRE SMOKE DAMPER. RELAYS ARE NOT SHOWN ON PLANS FOR CLARITY.
- 11.) DOOR HOLDERS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
- 12.) PROVIDE REMOTE LED INDICATORS FOR ALL CONCEALED FIRE ALARM DEVICES SUCH AS DUCT SMOKE DETECTORS, ABOVE CEILING SMOKE DETECTORS, ELEVATOR SHAFT DETECTORS, MONITORING AND CONTROL MODULES, ETC. LED INDICATORS FOR DEVICES MOUNTED ABOVE DROP CEILINGS SHALL BE MOUNTED BELOW ASSOCIATED DEVICES. LABEL INDICATORS TO INDICATE DEVICE SERVED.
- 13.) CONTRACTOR TO PROVIDE SMOKE DETECTOR(S) IN ALL LOCATIONS CONTAINING FIRE ALARM CONTROL PANELS, DATA GATHERING PANELS, BOOSTER POWER SUPPLIES, OR ANY OTHER FIRE ALARM SYSTEM PANEL, WHETHER SHOWN ON PLANS OR NOT.

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| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 4 | 06/05/2024 | ISSUED FOR BID |

Professional Seal

**FIRE ALARM &
FIRE RADIO
RISER DIAGRAM**

Job No. NKGD0207.00 Date 03/01/2024
Scale AS NOTED Drawn / Checked MML/MSDS

Sheet Number
E-502

| LIGHTING FIXTURE SCHEDULE | | | | | | | | | |
|---------------------------|---------------|-------------------|--|------------|------------|-------|--|--|--|
| FIXTURE DESIGNATION | MOUNTING | MANUFACTURER | CATALOG NUMBER | LUMENS | LAMPS | VOLTS | REMARKS | | |
| A | Recessed | ARON | DUOT1-FF-4FA-500-B2-35K9-UNV-DM-E10W-W | 500 LM/FT | 17.3 W | UNV | CORRIDOR 4' DOUBLE LINED LINEAR FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| AA | Recessed | ARON | DUOT1-DW-DM6-1500-B2-35K8-UNV-DM-E10W-W | 1500 LM/FT | 12.2 W | UNV | 6" DOUBLE LINED LINEAR FIXTURE. | | |
| B | Recessed | COLUMBIA | CFP24-55/41/3435/4100-PLD10M | 4,069 LM | 39 W LED | UNV | 2' X 4' LED EDGE UT FLAT PANEL. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| B2 | Recessed | COLUMBIA | CFP14-55/41/3440/4100-PLD10M | 5,035 LM | 40 W LED | UNV | 2' X 2' LED EDGE UT FLAT PANEL. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| C8 | Pendant | FOCAL POINT | F5M2LS-FL-750F-35K-1C-UNV-LD1-C24-EM-WH-8" | 750 LM/FT | 56 W LED | UNV | 8" LINEAR LED PENDANT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| C10 | Pendant | FOCAL POINT | F5M2LS-FL-750F-35K-1C-UNV-LD1-C24-EM-WH-10" | 750 LM/FT | 70 W LED | UNV | 10" LINEAR LED PENDANT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| C14 | Pendant | FOCAL POINT | F5M2LS-FL-750F-35K-1C-UNV-LD1-C24-EM-WH-14" | 750LM/FT | 98 W LED | UNV | 14" LINEAR LED PENDANT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| D | Recessed | PRESCOLITE | LF4ML-DM1-120-EMR / 4LFML30L-35K-8-SP-WT-CL | 3,000 LM | 32.7 W LED | 120V | 4" ROUND LED DOWNLIGHT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| D2 | Recessed | PRESCOLITE | LF4ML-DM1-120-EMR / 4LFML30L-35K-8-SP-WT-CL | 3,000 LM | 32.7 W LED | 120V | 4" ROUND LED DOWNLIGHT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| D3 | Recessed | UGHTOUER | FD4R30K Accessory: FD4NCP | 700 LM | 11 W LED | 120V | 4" ROUND LED DOWNLIGHT WITH NC PLATE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| E | Recessed | PRESCOLITE | LF6SL-DM1-120-EMR 6LF5L-15L-35K-8-SP-FLU-WT-DL | 1,013 LM | 12.6 W LED | 120V | 6" LED DOWNLIGHT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| EE | Surface | BEGA | 66 655 | 652 LM | 7.9 W LED | 120V | 4" EXTERIOR LED LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| F | Pendant | FOCAL POINT | ASM1TB-6-BWRL-12-900DN-2250UP-35K-1C-UNV-LD1-J48-BKCD-CHR | 3,150 LM | 24.2 W LED | UNV | 6" DIAMETER "Y" SHAPED LED PENDANT. COORDINATE FIXTURE COLOR WITH ARCHITECT. | | |
| F2 | Pendant | FOCAL POINT | ASM1TB-6-BWRL-12-900DN-2250UP-35K-1C-UNV-LD1-J48-BKCD-SLG | 3,150 LM | 24.2 W LED | UNV | 6" DIAMETER "Y" SHAPED LED PENDANT. COORDINATE FIXTURE COLOR WITH ARCHITECT. | | |
| G | Surface | COLUMBIA | MPS-4-35-MW-C-W-ED-U-ELL14H2 | 3,600 LM | 26.7 W LED | UNV | 4" LINEAR LED WALL MOUNTED LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| G2 | Pendant | COLUMBIA | MPS-4-35-MW-C-W-ED-U-ELL14H2 w/ CHS | 3,600 LM | 26.7 W LED | UNV | 4" LINEAR LED PENDANT LIGHT FIXTURE. PROVIDE CHAIN HANGER ASSEMBLY. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| H | Pendant | DAY-BRITE | RBX-20L-840-UNV-WT-EMLD-ARR22 w/ 22FL-WGA22 | 20,000 LM | 159 W LED | UNV | HIGH BAY 22" LED GYMNASIUM LIGHT FIXTURE. PROVIDE 22" CLEAR ACRYLIC STANDARD REFLECTOR. PROVIDE 22" FLAT ACRYLIC LENS AND SPRING CLAMP BAND WITH 22" WIRE GUARD. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| J | Recessed | AXIS | 8BRLED-400-80/B35-FL-12-CB210946(#3) W-UNV-DP-1-TB9-B(2) | 400 LM/FT | 38.7 W LED | UNV | 12" LED LINEAR LOBBY LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| K1 | Surface | ARON | EZT1-F9-2FA-850-B1-35K8-UNV-DM-E10W-BLK | 850 LM/FT | 19.3 W LED | UNV | 2" TETRIS STICK LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| K2 | Surface | ARON | EZT1-F9-2x2-850-B1-35K8-UNV-DM-E10W-BLK | 850 LM/FT | 19.3 W LED | UNV | 2' X 2' LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| K3 | Surface | ARON | EZT1-F9-2x4-850-B1-35K8-UNV-DM-E10W-BLK | 850 LM/FT | 19.3 W LED | UNV | 2' X 4' LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| K4 | Surface | ARON | EZT1-F9-4x4-850-B1-35K8-UNV-DM-E10W-BLK | 850 LM/FT | 19.3 W LED | UNV | 4' X 4' LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| K5 | Surface | ARON | EZT1-F9-2x2L-850-B1-35K8-UNV-DM-E10W-BLK | 850 LM/FT | 19.3 W LED | UNV | 2' X 2' L SHAPED LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| K6 | Surface | ARON | EZT1-F9-2x4L-850-B1-35K8-UNV-DM-E10W-BLK | 850 LM/FT | 19.3 W LED | UNV | 2' X 4' L SHAPED LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| K7 | Surface | ARON | EZT1-F9-4x4L-850-B1-35K8-UNV-DM-E10W-BLK | 850 LM/FT | 19.3 W LED | UNV | 4' X 4' L SHAPED LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| K8 | Surface | ARON | EZT1-F9-4x12x4L-850-B1-35K8-UNV-DM-E10W-BLK | 850 LM/FT | 19.3 W LED | UNV | Z SHAPED LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| K9 | Surface | ARON | EZT1-F9-12x4L-850-B1-35K8-UNV-DM-E10W-BLK | 850 LM/FT | 19.3 W LED | UNV | CUSTOM SHAPE LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| L | Surface | Lumenwerx | POECHROS-36-D-ULO-FH-F5-80-40-120-D1-1C-SUR-AL-LIN-AL-CYN | 4,500 LM | 46 W LED | 120V | PERFORATED LED GYMNASIUM LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| M8 | Recessed | AXIS | BBRLED-400-80/B35-1.5M-8-W-UNV-DP-1-TB9-B | 400 LM/FT | 37.1 W LED | UNV | 8" LED LINEAR LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| M10 | Recessed | AXIS | BBRLED-400-80/B35-1.5M-10-W-UNV-DP-1-TB9-B | 400 LM/FT | 37.1 W LED | UNV | 10" LED LINEAR LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| M12 | Recessed | AXIS | BBRLED-400-80/B35-1.5M-12-W-UNV-DP-1-TB9-B | 400 LM/FT | 37.1 W LED | UNV | 12" LED LINEAR LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| M14 | Recessed | AXIS | BBRLED-400-80/B35-1.5M-14-W-UNV-DP-1-TB9-B | 400 LM/FT | 37.1 W LED | UNV | 14" LED LINEAR LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| M16 | Recessed | AXIS | BBRLED-400-80/B35-1.5M-16-W-UNV-DP-1-TB9-B | 400 LM/FT | 37.1 W LED | UNV | 16" LED LINEAR LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| N | Recessed | PRESCOLITE | LFR-4RD-M-15L-35K-8-WD-DM1-120 / LFR-4RD-4-SH-WT-ACL / LFR-4RD-H | 1,500 LM | 11.8 W LED | 120V | 4" ROUND LED SHOWER LIGHT FIXTURE. PROVIDE "SH" TRIM STYLE. | | |
| P | Recessed | DAY-BRITE | 2-FPZ-42B-835-4-D5-UNV-DIM | 4,200 LM | 32.6 W LED | UNV | 2' X 4' LED LIGHT FIXTURE. | | |
| P2 | Recessed | DAY-BRITE | 2-FPZ-38B-835-2-D5-UNV-DIM-B5L10LST | 3,800 LM | 30 W LED | UNV | 2' X 2' LED LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| Q | Recessed | BEGA | 77 125 | 568 LM | 5.7 W LED | 120V | EXTERIOR RATED 8" LED TREE UPLIGHT. | | |
| R | Surface | LITHONIA | W5LED-P2-30K-VF-120-PBBW-E7WH-DBLXD | 3,000 LM | 25 W LED | 120V | EXTERIOR RATED OVER DOOR SCONCE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| S | Surface | KENALL | RHR15-W-PP-25L35K-DV-PH | 2,941 LM | 25 W LED | UNV | STARWELL WALL SCONCE LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| T | Surface | BROWNLEE | 5057-27-H16-35K | 1,657 LM | 16 W LED | 120V | 27" LED LINEAR WALL MOUNTED LIGHT FIXTURE. | | |
| T1 | Surface | BROWNLEE | 5057-39-H16-35K | 1,657 LM | 16 W LED | 120V | 39" LED LINEAR WALL MOUNTED LIGHT FIXTURE. | | |
| U | Surface | BEGA | 99 522 | 6,855 LM | 47.2 W LED | 120V | EXTERIOR RATED POLE MOUNTED LED LIGHT FIXTURE. | | |
| U | Pendant | FOCAL POINT | FLCY2-RD-BKG-500L-35K-1C-UNV-DSC-LD1-C72-DNT-NFL-EMR-CD-WH-WH | 500 LM | 8.5 W LED | UNV | 2" ROUND LED DECORATIVE PENDANT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| W | Pendant | BEACON | SRT2-50W-3K8-SQW-UNV-BLT-NXWS12F | 5,700 LM | 50 W LED | UNV | 18.5" ROUND LED LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| X | Semi-Recessed | FLUXWEX | TC1-J-05-G-K1-S-W-N-90-35-16W-F2-M-B | 2,350 LM | 16 W LED | UNV | 5.5" ROUND SEMI-RECESSED ADJUSTABLE LED LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |
| Y | Surface | BEGA | 884430 | 364 LM | 8 W LED | 120V | BOLLARD EXTERIOR RATED LIGHT FIXTURE. | | |
| Z | Surface | LUCCETTA LIGHTING | VIP24V-SE-ENC-250-30-DRIVER: DI-ODX-24V96W-J | - | 5.6 W/FT | 24V | LED ROPE LIGHTING FOR SIGNAGE. PROVIDE OMNIDIRECTIONAL DRIVER. COORDINATE LENGTH OF LIGHT FIXTURE WITH ARCHITECT. | | |
| ZZ | Surface | ACCLAIM LIGHTING | AGH-241-D-P-B-N(10-10V-DM) | 419 LM/FT | 9 W/FT | 120V | 4" LED LINEAR LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM. | | |

NOTES:
1.) VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.
2.) ALL BALLASTS AND DRIVERS IN FIXTURES LOCATED OUTDOORS SHALL BE ZERO DEGREE RATED STARTING TEMPERATURE. REFER TO DRAWINGS FOR LOCATION OF FIXTURES.
3.) LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BACK-UP BATTERY WHERE POSSIBLE AND THE SHALL BE INTERNAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BATTERY. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE FIXTURE SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 120V LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.
4.) ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.
5.) ALL LIGHT FIXTURES TAGGED AS "EM" SHALL BE FED FROM EMERGENCY POWER PANELS. THESE FIXTURES SHALL BE SWITCHED AS INDICATED ALONG WITH LIGHTING FIXTURES FED FROM NORMAL POWER SOURCES UNLESS ALSO TAGGED AS "NL". UPON LOSS OF NORMAL POWER, EMERGENCY LIGHT FIXTURES SHALL BE AUTOMATICALLY SHUNTED TO FULL BRIGHT REGARDLESS OF STATE OF CONTROLLING SWITCH. SEE DETAIL FOR ADDITIONAL INFORMATION.

LIGHTING SYSTEM FUNCTIONAL TESTING/COMMISSIONING

I. FUNCTIONAL TESTING
PRIOR TO PASSING FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE EVIDENCE TO THE BUILDING OWNER AND THE ENGINEER THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S DOCUMENTS. FUNCTIONAL TESTING, FOR THE APPLICABLE CONTROL TYPE, SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
1.) OCCUPANT SENSOR CONTROLS
WHERE OCCUPANT SENSOR CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:
A.) CERTIFY THAT THE OCCUPANT SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
B.) FOR PROJECTS WITH SEVEN OR FEWER OCCUPANT SENSORS, EACH SENSOR SHALL BE TESTED.
C.) FOR PROJECTS WITH MORE THAN SEVEN OCCUPANT SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN 10 PERCENT, BUT IN NO CASE LESS THAN ONE, OF EACH COMBINATION SHALL BE TESTED UNLESS THE CODE OFFICIAL OR DESIGN PROFESSIONAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED WHERE 30 PERCENT OR MORE OF THE TESTED CONTROLS FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED.
FOR OCCUPANT SENSOR CONTROLS TO BE TESTED, VERIFY THE FOLLOWING:
i.) WHERE OCCUPANT SENSOR CONTROLS INCLUDE STATUS INDICATORS, VERIFY CORRECT OPERATION.
ii.) THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
iii.) FOR AUTO-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE.
iv.) FOR MANUAL-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.
v.) THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY HVAC OPERATION.
2.) TIME-SWITCH CONTROLS
WHERE TIME-SWITCH CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:
A.) CONFIRM THAT THE TIME-SWITCH CONTROL IS PROGRAMMED WITH ACCURATE WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES.
B.) PROVIDE DOCUMENTATION TO THE OWNER OF TIME-SWITCH CONTROLS PROGRAMMING INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES, AND SET-UP AND PREFERENCE PROGRAM SETTINGS.
C.) VERIFY THE CORRECT TIME AND DATE IN THE TIME SWITCH.
D.) VERIFY THAT ANY BATTERY BACK-UP IS INSTALLED AND ENERGIZED.
E.) VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS.
F.) SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
i.) ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
ii.) THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
G.) SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
i.) NONEXEMPT LIGHTING TURNS OFF.
ii.) MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUTOFF OCCURS.
3.) DAYLIGHT RESPONSIVE CONTROLS
WHERE DAYLIGHT RESPONSIVE CONTROLS ARE PROVIDED, THE FOLLOWING SHALL BE VERIFIED:
A.) CONTROL DEVICES HAVE BEEN PROPERLY LOCATED, FIELD CALIBRATED AND SET FOR ACCURATE SET POINTS AND THRESHOLD LIGHT LEVELS.
B.) DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO LIGHT LEVEL SET POINTS IN RESPONSE TO AVAILABLE DAYLIGHT.
C.) THE LOCATIONS OF CALIBRATION ADJUSTMENT EQUIPMENT ARE READILY ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.
II. DOCUMENTATION REQUIREMENTS
DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA ARE TO BE PROVIDED TO THE BUILDING OWNER AND ENGINEER WITHIN 60 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

LVAV PANEL SCHEDULE

| LVAV PANEL SCHEDULE | | | | | | | | | |
|---------------------|------------------------------|-----------------|--------------|---------------------|-----------|---|-----------|--|--|
| MAIN RATING: 100A | | MAIN C.B.: 100A | | KAIC RATING: 22KAIC | | VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE | | | |
| CIRC. NO. | LOAD DESCRIPTION | BKR. AMPS | NO. OF POLES | NO. OF POLES | BKR. AMPS | LOAD DESCRIPTION | CIRC. NO. | | |
| 1 | GYMNASIUM VIDEO PROJECTOR | 30 | 2 | 1 | 20 | AV CLOS 107A - AVV RACK EQPT | 2 | | |
| 3 | | - | - | - | - | | 4 | | |
| 5 | | - | - | 1 | 20 | DATA 205A - AVV RACK EQPT | 6 | | |
| 7 | AV CLOS 107A - AVV RACK EQPT | 20 | 1 | 1 | 20 | AV CLOS 107A - AVV RACK EQPT | 8 | | |
| 9 | CONF 103B - AVV EQUIPMENT | 20 | 1 | 1 | 20 | CONF 103B - AVV EQUIPMENT | 10 | | |
| 11 | | - | - | - | - | | 12 | | |
| 13 | AV CLOS 107A - AVV RACK EQPT | 20 | 1 | 1 | 20 | DATA 205A - AVV RACK EQPT | 14 | | |
| 15 | | - | - | - | - | | 16 | | |
| 17 | | - | - | - | - | | 18 | | |
| 19 | AV CLOS 107A - AVV RACK EQPT | 20 | 1 | 1 | 20 | DATA 205A - AVV RACK EQPT | 20 | | |
| 21 | | - | - | - | - | | 22 | | |
| 23 | | - | - | - | - | | 24 | | |
| 25 | AV CLOS 107A - AVV RACK EQPT | 20 | 1 | 1 | 20 | DATA 205A - AVV RACK EQPT | 26 | | |
| 27 | | - | - | - | - | | 28 | | |
| 29 | | - | - | - | - | | 30 | | |
| 31 | AV CLOS 107A - AVV RACK EQPT | 20 | 1 | 1 | 20 | DATA 205A - AVV RACK EQPT | 32 | | |
| 33 | | - | - | - | - | | 34 | | |
| 35 | SPARE | 20 | 1 | 1 | 20 | SPARE | 36 | | |
| 37 | SPARE | 20 | 1 | 1 | 20 | DATA 205A - AVV RACK EQPT | 38 | | |
| 39 | SPARE | 20 | 1 | 1 | 20 | SPARE | 40 | | |
| 41 | SPARE | 20 | 1 | 1 | 20 | SPARE | 42 | | |

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFF TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.
NOTES:

FOOD SERVICE EQUIPMENT SCHEDULE

| MK. | QTY | DESCRIPTION | ELECTRICAL | | | | | | | | | | REMARKS | | |
|-----|-----|---------------------------|------------|------|-----|-------|-------|--------|------|----------------|-------|-----------------|----------------------------|-------------------------|---|
| | | | FLA | KW | HP | VOLTS | PHASE | DIRECT | PLUG | MODEL NUMBER | NEMA | CIRCUIT BREAKER | | PANEL | WIRE SIZE |
| 1 | 3 | DOUBLE DOOR REFRIGERATION | 3.4 | A | 1/2 | 120 | 1 | A | X | A-49R-HC-64" | 5-15P | 1P-20A | PSPA-13, PSPA-14 & PSPA-15 | 2#12 & 1#12 GND IN 3/4" | BASEMENT STORAGE ROOM. |
| 2 | 2 | ICE MAKER | 9.4 | A | | 120 | 1 | A | X | A-KMC-H-530-A | 5-15P | 1P-20A | PSPA-12 & PSC2-10 | 2#12 & 1#12 GND IN 3/4" | BASEMENT STORAGE & SECOND FLOOR PANTRY. |
| 3 | 1 | SINGLE DOOR REFRIGERATOR | 1.37 | A | 1/3 | 120 | 1 | A | X | A-23R-HC-29" | 5-15P | 1P-20A | PSC2-9 | 2#12 & 1#12 GND IN 3/4" | SECOND FLOOR PANTRY. |
| 4 | 1 | UNDER COUNTER DISHWASHER | 24.7 | A | | 208 | 1 | X | A | DISHSTAR HT-E | A | 2P-35A | PSC2-19-21 | 3#10 & 1#10 GND IN 3/4" | SECOND FLOOR PANTRY. |
| 5 | 1 | COFFEE MAKER | 15 | 1.8 | | 120 | 1 | A | X | ALPHA-3GT | 5-15P | 1P-15A | PSC2-20 | 2#12 & 1#12 GND IN 3/4" | SECOND FLOOR PANTRY. |
| 6 | 1 | MICROWAVE | A | 2.1 | | 208 | 1 | A | X | #180MWSHD21 | 6-20P | 2P-20A | PSC2-22-24 | 2#12 & 1#12 GND IN 3/4" | SECOND FLOOR PANTRY. |
| 7 | 1 | HEATED BANQUET CABINET | 13.8 | 1.65 | | 120 | 1 | A | X | MED-180-QH-180 | 5-15P | 1P-20A | PSC2-23 | 2#12 & 1#12 GND IN 3/4" | SECOND FLOOR PANTRY. |
| 8 | 1 | WARMING CABINET | A | 1.44 | | 120 | 3 | X | A | DVS DURAVEND | 5-15P | 1P-20A | PSC2-25 | 2#12 & 1#12 GND IN 3/4" | SECOND FLOOR PANTRY. |

NOTES:
1.) COORDINATE ALL ELECTRICAL EQUIPMENT REQUIREMENTS, VOLTAGE, PHASE, CONNECTIONS,

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS

| PS1C PANEL SCHEDULE | | | | | | | | | |
|---------------------|----------------------------------|----------------|--------------|---------------------|-----------|----------------------------|-----------|--|--|
| MAIN RATING: 200A | | MAIN C.B.: MLO | | KAIC RATING: 22KAIC | | | | | |
| VOLTAGE: 208Y/120V | | PHASE: 3 | | WIRE: 4 | | MOUNTING: SURFACE | | | |
| CIRC. NO. | LOAD DESCRIPTION | BKR. AMPS | NO. OF POLES | NO. OF POLES | BKR. AMPS | LOAD DESCRIPTION | CIRC. NO. | | |
| 1 | REC - MEETING 112 | 20 | 1 | 1 | 20 | REC - DATA 111 | 2 | | |
| 3 | REC - CORRIDOR C101 | 20 | 1 | 1 | 20 | REC - RECREATION GAME RM | 4 | | |
| 5 | REC - MEN 110/WOMEN 109 | 20 | 1 | 1 | 20 | REC - RECREATION GAME RM | 6 | | |
| 7 | REC - ART/CRAFTS 108 | 20 | 1 | 1 | 20 | REC - ART/CRAFTS 108 | 8 | | |
| 9 | REC - COMPUTER/GAMING 107 | 20 | 1 | 1 | 20 | REC - COMPUTER/GAMING 107 | 10 | | |
| 11 | REC - LOBBY 101/ STOR 113A | 20 | 1 | 1 | 20 | REC - CONFERENCE 103B | 12 | | |
| 13 | REC - OPEN OFFICE 103 | 20 | 1 | 1 | 20 | REC - OPEN OFFICE 103/103A | 14 | | |
| 15 | HWCP-1 - JAN 104 | 20 | 1 | 1 | 20 | JBOX - MEN 110/ WOMEN 109 | 16 | | |
| 17 | HAND DRYER - MEN 110 | 20 | 1 | 1 | 20 | HAND DRYER - WOMEN 109 | 18 | | |
| 19 | HAND DRYER - TOILET 105 | 20 | 1 | 1 | 20 | JBOX - FIRE CURTAIN | 20 | | |
| 21 | REC - MECH 112A | 20 | 1 | 2 | 15 | VRF-1 - OPEN OFFICE 103 | 22 | | |
| 23 | CP-1 - OPEN OFFICE 103 | 15 | 1 | | | | 24 | | |
| 25 | CP-1 - COMPUTER GAMING | 15 | 1 | 1 | 15 | CP-1 - ARTS/CRAFTS 108 | 26 | | |
| 27 | CP-1 - REC RM 106 | 15 | 1 | 1 | 15 | CP-1 - MECH 112A | 28 | | |
| 29 | J-BOX - TOILET 105 | 20 | 1 | 1 | 20 | REC - WOMEN 109 | 30 | | |
| 31 | GYM PA PANEL | 20 | 1 | 1 | 20 | REC - DATA 111 | 32 | | |
| 33 | BUILDING PA PANEL | 20 | 1 | 1 | 20 | REC - STOR 107A | 34 | | |
| 35 | RESCUE ASSISTANCE PANEL | 20 | 1 | 1 | 20 | REC - STOR 107A | 36 | | |
| 37 | TV OUTLET - OFFICE 103/LOBBY 101 | 20 | 1 | 2 | 15 | VRF-2 - REC RM 106 | 38 | | |
| 39 | TV OUTLET - COMPUTER GAMING 107 | 20 | 1 | | | | 40 | | |
| 41 | TV OUTLET - CONF 103B | 20 | 1 | | | | 42 | | |
| 43 | - | - | - | - | - | | 44 | | |
| 45 | - | - | - | - | - | | 46 | | |
| 47 | SPARE | 20 | 1 | 1 | 20 | SPARE | 48 | | |
| 49 | SPARE | 20 | 1 | 1 | 20 | SPARE | 50 | | |
| 51 | SPARE | 20 | 1 | 1 | 20 | SPARE | 52 | | |
| 53 | SPARE | 20 | 1 | 1 | 20 | SPARE | 54 | | |
| 55 | SPARE | 20 | 1 | 1 | 20 | SPARE | 56 | | |
| 57 | SPARE | 20 | 1 | 1 | 20 | SPARE | 58 | | |
| 59 | SPARE | 20 | 1 | 1 | 20 | SPARE | 60 | | |
| 61 | SPARE | 20 | 1 | 1 | 20 | SPARE | 62 | | |
| 63 | SPARE | 20 | 1 | 1 | 20 | SPARE | 64 | | |
| 65 | SPARE | 20 | 1 | 1 | 20 | SPARE | 66 | | |

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFF TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

| PS1B PANEL SCHEDULE | | | | | | | | | |
|---------------------|----------------------------|----------------|--------------|---------------------|-----------|-------------------------------|-----------|--|--|
| MAIN RATING: 100A | | MAIN C.B.: MLO | | KAIC RATING: 22KAIC | | | | | |
| VOLTAGE: 208Y/120V | | PHASE: 3 | | WIRE: 4 | | MOUNTING: SURFACE | | | |
| CIRC. NO. | LOAD DESCRIPTION | BKR. AMPS | NO. OF POLES | NO. OF POLES | BKR. AMPS | LOAD DESCRIPTION | CIRC. NO. | | |
| 1 | LTG - GAME ROOM 106 | 20 | 1 | 1 | 20 | LTG-GAMING 107/STOR 107A/113A | 2 | | |
| 3 | LTG-CONF 103B/103A/104/105 | 20 | 1 | 1 | 20 | LTG - OFFICE 103/VEST 100 | 4 | | |
| 5 | LTG - LOBBY 101 | 20 | 1 | 1 | 20 | LTG - EXTERIOR | 6 | | |
| 7 | LTG - STAIR B | 20 | 1 | - | - | | 8 | | |
| 9 | REC - ELEC 113C/ STOR 113D | 20 | 1 | 1 | 20 | REC - GYMNASIUM 113 | 10 | | |
| 11 | REC - GYMNASIUM 113 | 20 | 1 | | | | 12 | | |
| 13 | EF-3 - STOR 113A | 15 | 1 | 3 | 15 | WH-2 | 14 | | |
| 15 | FTR-2 - LOBBY 101 | 15 | 2 | | | | 16 | | |
| 17 | | | | 2 | 15 | FTR-2 - LOBBY 101 | 18 | | |
| 19 | FTR-2 - LOBBY 101 | 15 | 2 | | | | 20 | | |
| 21 | | | | 2 | 15 | VRF-5 - MECH 112A | 22 | | |
| 23 | VRF-4 - ARTS/CRAFTS 108 | 15 | 2 | | | | 24 | | |
| 25 | | | | 2 | 15 | VRF-3 - GAMES RM 107 | 26 | | |
| 27 | JBOX - FLUSH VALVES | 20 | 1 | | | | 28 | | |
| 29 | - | - | - | 1 | 20 | REC - MENS 110 | 30 | | |
| 31 | - | - | - | - | - | | 32 | | |
| 33 | - | - | - | - | - | | 34 | | |
| 35 | SPARE | 20 | 1 | 1 | 20 | SPARE | 36 | | |
| 37 | SPARE | 20 | 1 | 1 | 20 | SPARE | 38 | | |
| 39 | SPARE | 20 | 1 | 1 | 20 | SPARE | 40 | | |
| 41 | SPARE | 20 | 1 | 1 | 20 | SPARE | 42 | | |

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFF TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

| PS1A PANEL SCHEDULE | | | | | | | | | |
|---------------------|----------------------------|----------------|--------------|---------------------|-----------|------------------------------------|-----------|--|--|
| MAIN RATING: 100A | | MAIN C.B.: MLO | | KAIC RATING: 22KAIC | | | | | |
| VOLTAGE: 208Y/120V | | PHASE: 3 | | WIRE: 4 | | MOUNTING: SURFACE | | | |
| CIRC. NO. | LOAD DESCRIPTION | BKR. AMPS | NO. OF POLES | NO. OF POLES | BKR. AMPS | LOAD DESCRIPTION | CIRC. NO. | | |
| 1 | LTG - STAIR A | 20 | 1 | 1 | 20 | LTG - EXTERIOR | 2 | | |
| 3 | LTG - MEETING 112/DATA 111 | 20 | 1 | 1 | 20 | LTG - CORR 101/102/103 | 4 | | |
| 5 | LTG - RESTROOMS 110/109 | 20 | 1 | 1 | 20 | LTG - ELEC 113C/STOR 113D | 6 | | |
| 7 | LTG - ARTS 108/ STOR 108A | 20 | 1 | 1 | 20 | REC - VENDING MACHINE | 8 | | |
| 9 | REC - VENDING MACHINE | 20 | 1 | 1 | 20 | REC - WATER FOUNTAIN | 10 | | |
| 11 | REC - WATER FOUNTAIN | 20 | 1 | 1 | 15 | EF-3 - STOR 113D | 12 | | |
| 13 | | | | | | | 14 | | |
| 15 | CUH-2 - STAIR A | 15 | 3 | 3 | 15 | CUH-2 - STAIR B | 16 | | |
| 17 | | | | | | | 18 | | |
| 19 | AUTOMATIC DOOR OPERATOR | 20 | 1 | 1 | 20 | ACCESS CONTROL PANEL | 20 | | |
| 21 | - | - | - | 1 | 15 | HRU-1-2 - RECREATION GAME ROOM 106 | 22 | | |
| 23 | - | - | - | | | | 24 | | |
| 25 | HVAC CONTROL PANEL | 20 | 1 | | | | 26 | | |
| 27 | - | - | - | 3 | 20 | BLEACHERS | 28 | | |
| 29 | - | - | - | | | | 30 | | |
| 31 | - | - | - | - | - | | 32 | | |
| 33 | - | - | - | - | - | | 34 | | |
| 35 | SPARE | 20 | 1 | 1 | 20 | SPARE | 36 | | |
| 37 | SPARE | 20 | 1 | 1 | 20 | SPARE | 38 | | |
| 39 | SPARE | 20 | 1 | 1 | 20 | SPARE | 40 | | |
| 41 | SPARE | 20 | 1 | 1 | 20 | SPARE | 42 | | |

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFF TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

| PN1B PANEL SCHEDULE | | | | | | | | | |
|---------------------|-----------------------------|----------------|--------------|---------------------|-----------|-----------------------------|-----------|--|--|
| MAIN RATING: 100A | | MAIN C.B.: MLO | | KAIC RATING: 22KAIC | | | | | |
| VOLTAGE: 208Y/120V | | PHASE: 3 | | WIRE: 4 | | MOUNTING: SURFACE | | | |
| CIRC. NO. | LOAD DESCRIPTION | BKR. AMPS | NO. OF POLES | NO. OF POLES | BKR. AMPS | LOAD DESCRIPTION | CIRC. NO. | | |
| 1 | REC - EAST CORRIDOR 114 | 20 | 1 | 1 | 20 | REC - WATER FOUNTAIN | 2 | | |
| 3 | REC - GYMNASIUM 113 | 20 | 1 | 1 | 20 | REC - WOMENS LOCKERS | 4 | | |
| 5 | REC - MENS LOCKERS | 20 | 1 | 1 | 20 | REC - MECH 122 | 6 | | |
| 7 | REC - FITNESS 123 | 20 | 1 | 1 | 20 | REC - FITNESS 123 | 8 | | |
| 9 | REC - FITNESS 123 | 20 | 1 | 1 | 20 | REC - TREADMILL | 10 | | |
| 11 | REC - FITNESS 123 | 20 | 1 | 1 | 20 | REC - STOR 113F/123A/ ELEC | 12 | | |
| 13 | HWCP-1 - MECH 122 | 20 | 1 | 1 | 20 | JBOX - MEN 120 | 14 | | |
| 15 | HAND DRYER - MEN 120 | 20 | 1 | 1 | 20 | JBOX - TOILET 118/WOMEN 116 | 16 | | |
| 17 | HAND DRYER - TOILET 118/116 | 20 | 1 | 1 | 20 | REC - TREADMILL | 18 | | |
| 19 | REC - TREADMILL | 20 | 1 | 1 | 20 | REC - TREADMILL | 20 | | |
| 21 | REC - TREADMILL | 20 | 1 | 1 | 20 | REC - TREADMILL | 22 | | |
| 23 | REC - GYM SCOREBOARDS | 20 | 1 | 1 | 20 | J-BOX - MOTORIZED CURTAINS | 24 | | |
| 25 | J-BOX - MOTORIZED CURTAINS | 20 | 1 | 1 | 20 | J-BOX - MOTORIZED CURTAINS | 26 | | |
| 27 | J-BOX - MOTORIZED CURTAINS | 20 | 1 | 1 | 20 | J-BOX - MOTORIZED CURTAINS | 28 | | |
| 29 | J-BOX - MOTORIZED CURTAINS | 20 | 1 | - | - | | 30 | | |
| 31 | - | - | - | - | - | | 32 | | |
| 33 | - | - | - | - | - | | 34 | | |
| 35 | SPARE | 20 | 1 | 1 | 20 | SPARE | 36 | | |
| 37 | SPARE | 20 | 1 | 1 | 20 | SPARE | 38 | | |
| 39 | SPARE | 20 | 1 | 1 | 20 | SPARE | 40 | | |
| 41 | SPARE | 20 | 1 | 1 | 20 | SPARE | 42 | | |

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFF TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

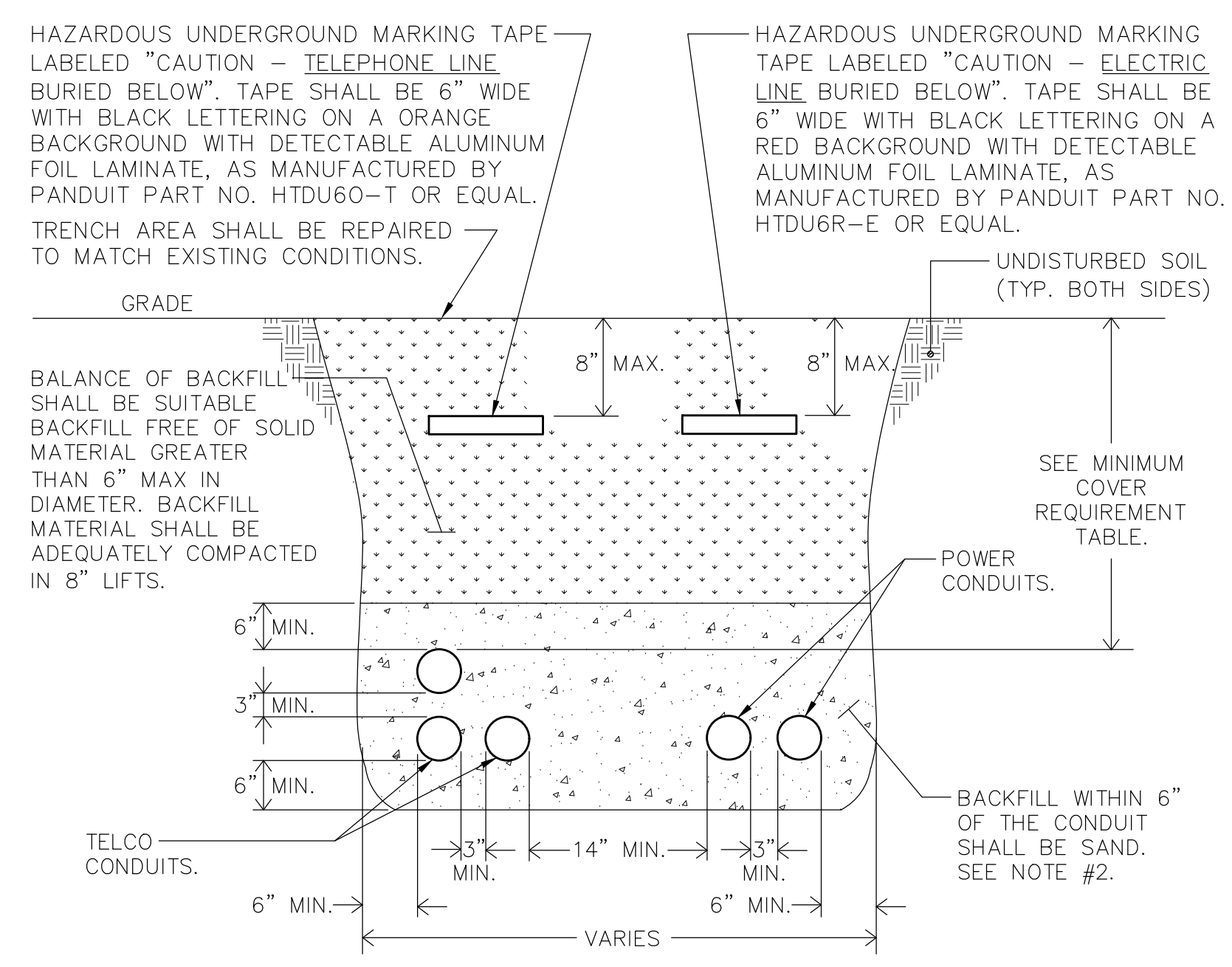
NOTES:

| PN1A PANEL SCHEDULE | | | | | | | | | |
|---------------------|-------------------------|----------------|--------------|---------------------|-----------|---------------------------|-----------|--|--|
| MAIN RATING: 100A | | MAIN C.B.: MLO | | KAIC RATING: 22KAIC | | | | | |
| VOLTAGE: 208Y/120V | | PHASE: 3 | | WIRE: 4 | | MOUNTING: SURFACE | | | |
| CIRC. NO. | LOAD DESCRIPTION | BKR. AMPS | NO. OF POLES | NO. OF POLES | BKR. AMPS | LOAD DESCRIPTION | CIRC. NO. | | |
| 1 | LTG - EXTERIOR | 20 | 1 | 1 | 20 | LTG - FITNESS 123 | 2 | | |
| 3 | LTG - ELEC/ STOR/ STOR | 20 | 1 | 1 | 20 | LTG - LOCKER CORRIDOR 155 | 4 | | |
| 5 | LTG - MECH 122 | 20 | 1 | 1 | 20 | LTG - MEN/WOMEN LOCKERS | 6 | | |
| 7 | LTG - EAST CORRIDOR 114 | 20 | 1 | 1 | 20 | LTG - GYMNASIUM 123 | 8 | | |
| 9 | LTG - GYMNASIUM 123 | 20 | 1 | 1 | 20 | AP-8 - MECH 122 | 10 | | |
| 11 | UH-1 - MECH 122 | 20 | 2 | 1 | 15 | EF-3 - STOR 113F | 12 | | |
| 13 | | | | 1 | 20 | REC - FITNESS 123 | 14 | | |
| 15 | AUTOMATIC DOOR OPERATOR | 20 | 1 | 1 | 20 | TV OUTLET - FITNESS 123 | 16 | | |
| 17 | TV OUTLET - FITNESS 123 | 20 | 1 | 1 | 20 | TV OUTLET - FITNESS 123 | 18 | | |
| 19 | TV OUTLET - FITNESS 123 | 20 | 1 | 1 | 20 | MOTORIZED DAMPERS | 20 | | |
| 21 | J-BOX - BACKBOARD WINCH | 30 | 1 | 1 | 30 | J-BOX - BACKBOARD WINCH | 22 | | |
| 23 | J-BOX - BACKBOARD WINCH | 30 | 1 | 1 | 30 | J-BOX - BACKBOARD WINCH | 24 | | |
| 25 | J-BOX - BACKBOARD WINCH | 30 | 1 | 1 | 30 | J-BOX - BACKBOARD WINCH | 26 | | |
| 27 | HVAC CONTROL PANEL | 20 | 1 | 1 | 20 | J-BOX - FLUSH/VALVES | 28 | | |
| 29 | - | - | - | - | - | | 30 | | |
| 31 | - | - | - | - | - | | 32 | | |
| 33 | - | - | - | - | - | | 34 | | |
| 35 | SPARE | 20 | 1 | 1 | 20 | SPARE | 36 | | |
| 37 | SPARE | 20 | 1 | 1 | 20 | SPARE | 38 | | |
| 39 | SPARE | 20 | 1 | 1 | 20 | SPARE | 40 | | |
| 41 | SPARE | 20 | 1 | 1 | 20 | SPARE | 42 | | |

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFF TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

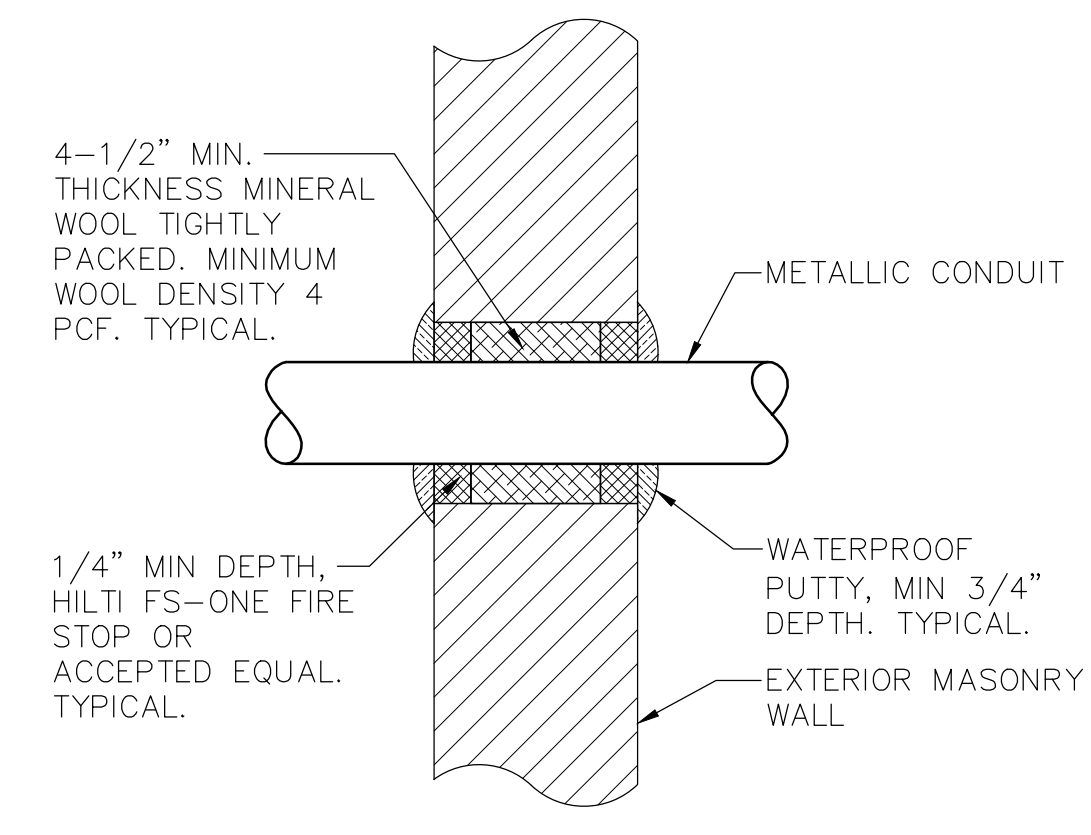
| PN1C PANEL SCHEDULE | | | | | | | | | |
|---------------------|-----------------------------|----------------|--------------|---------------------|-----------|-----------------------------|-----------|--|--|
| MAIN RATING: 100A | | MAIN C.B.: MLO | | KAIC RATING: 22KAIC | | | | | |
| VOLTAGE: 208Y/120V | | PHASE: 3 | | WIRE: 4 | | MOUNTING: SURFACE | | | |
| CIRC. NO. | LOAD DESCRIPTION | BKR. AMPS | NO. OF POLES | NO. OF POLES | BKR. AMPS | LOAD DESCRIPTION | CIRC. NO. | | |
| 1 | FTR-1 - EAST CORRIDOR 114 | 15 | 2 | 2 | 15 | FTR-1 - EAST CORRIDOR 114 | 2 | | |
| 3 | | | | | | | 4 | | |
| 5 | FTR-1 - EAST CORRIDOR 114 | 15 | 2 | 2 | 15 | FTR-1 - EAST CORRIDOR 114 | 6 | | |
| 7 | | | | | | | 8 | | |
| 9 | FTR-1 - EAST CORRIDOR 114 | 15 | 2 | 2 | 15 | FTR-1 - EAST CORRIDOR 114 | 10 | | |
| 11 | | | | | | | 12 | | |
| 13 | FTR-1 - EAST CORRIDOR 114 | 15 | 2 | 2 | 15 | FTR-2 - LOCKER CORRIDOR 115 | 14 | | |
| 15 | | | | | | | 16 | | |
| 17 | FTR-2 - LOCKER CORRIDOR 115 | 15 | 2 | 2 | 15 | FTR-2 - LOCKER CORRIDOR 115 | 18 | | |
| 19 | | | | | | | 20 | | |
| 21 | AH-2 | 15 | 2 | 1 | 20 | MOTORIZED VALVES | 22 | | |
| 23 | | | | 2 | 15 | HRU-1-1 | 24 | | |
| 25 | AH-2 EEV KIT | 15 | 2 | | | | 26 | | |
| 27 | - | - | - | - | - | | 28 | | |
| 29 | - | - | - | - | - | | 30 | | |
| 31 | - | - | - | - | - | | 32 | | |
| 33 | - | - | - | - | - | | 34 | | |
| 35 | SPARE | 20 | 1 | 1 | 20 | SPARE | 36 | | |
| 37 | SPARE | 20 | 1 | 1 | 20 | SPARE | 38 | | |
| 39 | SPARE | 20 | 1 | 1 | 20 | SPARE | 40 | | |



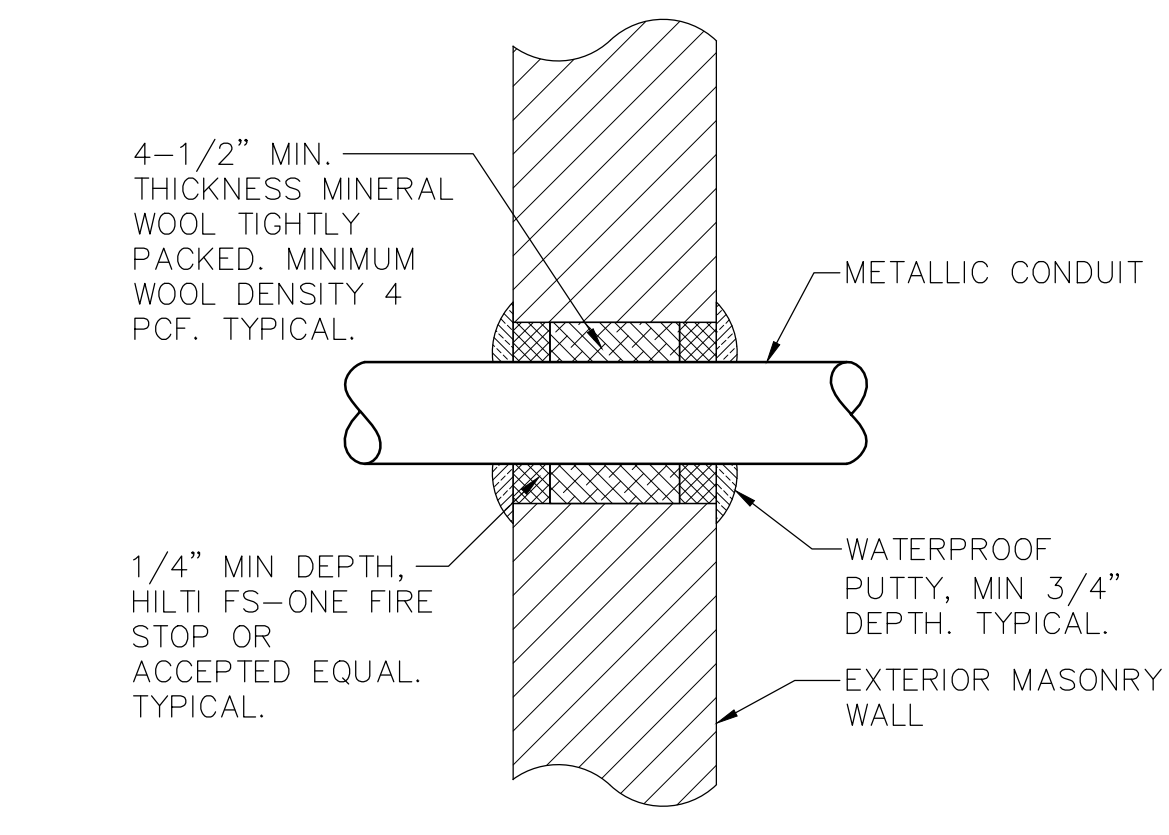
| LOCATION | NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITHOUT CONCRETE ENCASEMENT OR OTHER APPROVED RACEWAYS |
|---|--|
| ALL LOCATION NOT SPECIFIED BELOW. | 18" |
| IN TRENCH BELOW 2-IN. THICK CONCRETE OR EQUIVALENT. | 12" |
| UNDER MINIMUM OF 4-IN. THICK CONCRETE EXTERIOR SLAB WITH NO VEHICULAR TRAFFIC AND THE SLAB EXTENDING NOT LESS THAN 6 IN. BEYOND THE UNDERGROUND INSTALLATION. | 4" SEE NOTE #2. |
| UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS. | 24" |

NOTES:
1.) DETAIL SHOWN FOR INFORMATION PURPOSES. SAME CONCEPT SHALL ALSO APPLY FOR SINGLE CONDUITS.
2.) SAND MAY BE OMITTED FOR INSTALLATIONS WHERE COVER REQUIREMENTS ARE 6" OR LESS.

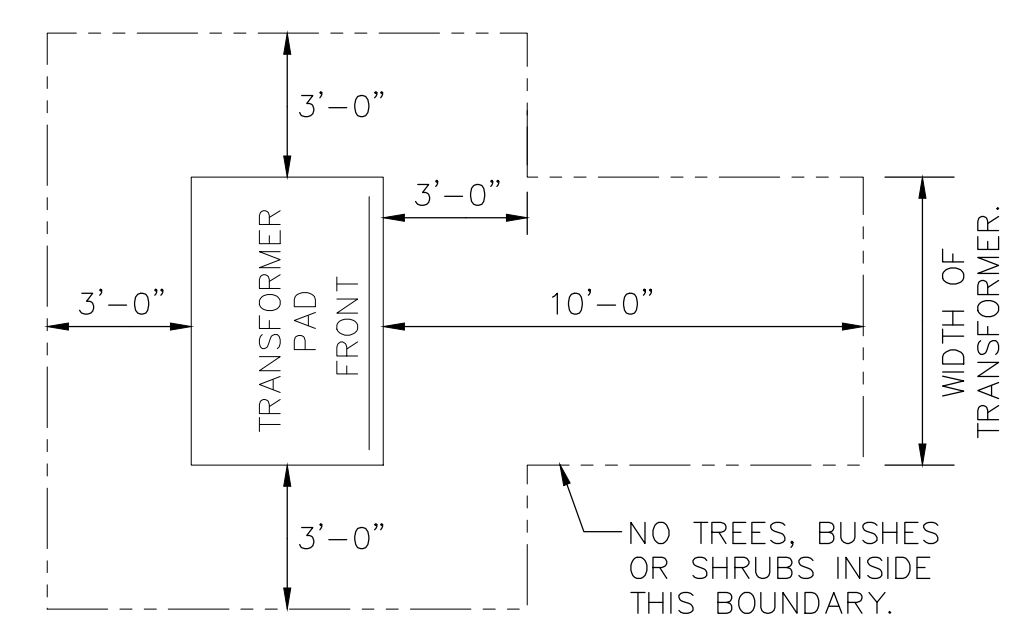
11 TRENCHING DETAIL FOR CONDUIT
SCALE: NONE



6 TYPICAL EXTERIOR MASONRY WALL ABOVE GRADE CONDUIT PENETRATION DETAIL
SCALE: NONE



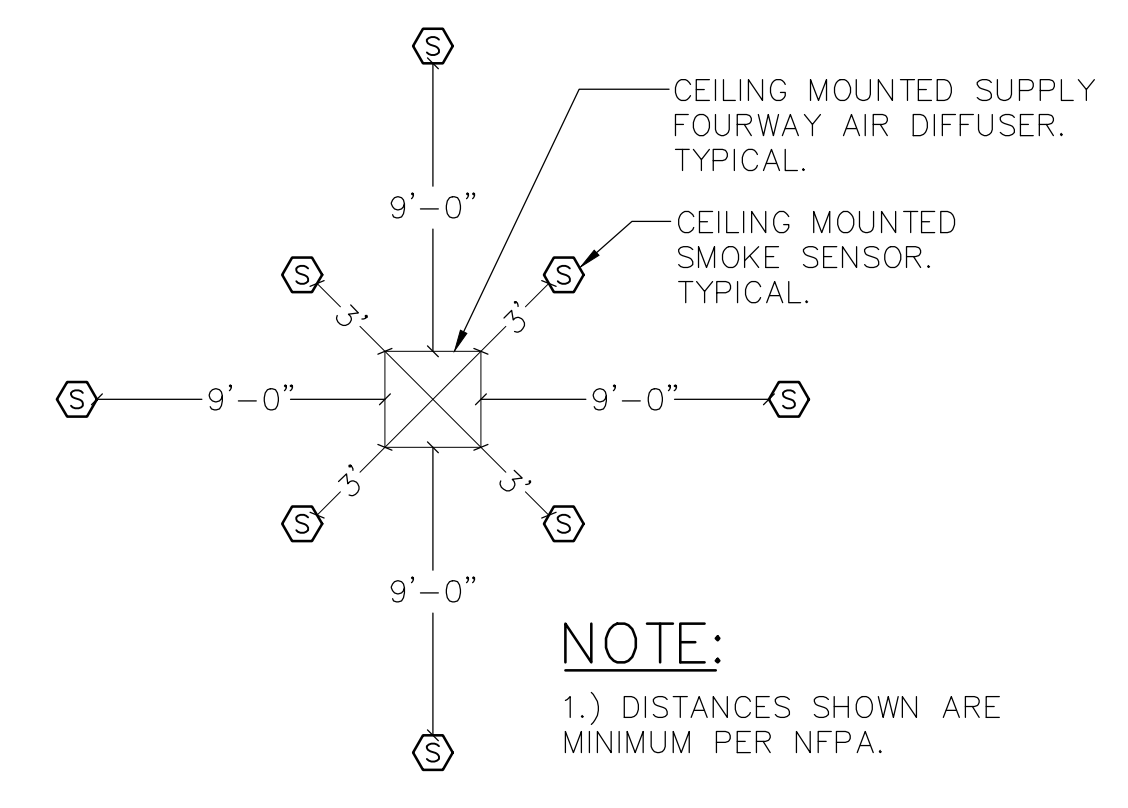
3 TYPICAL EXTERIOR MASONRY WALL ABOVE GRADE CONDUIT PENETRATION DETAIL
SCALE: NONE



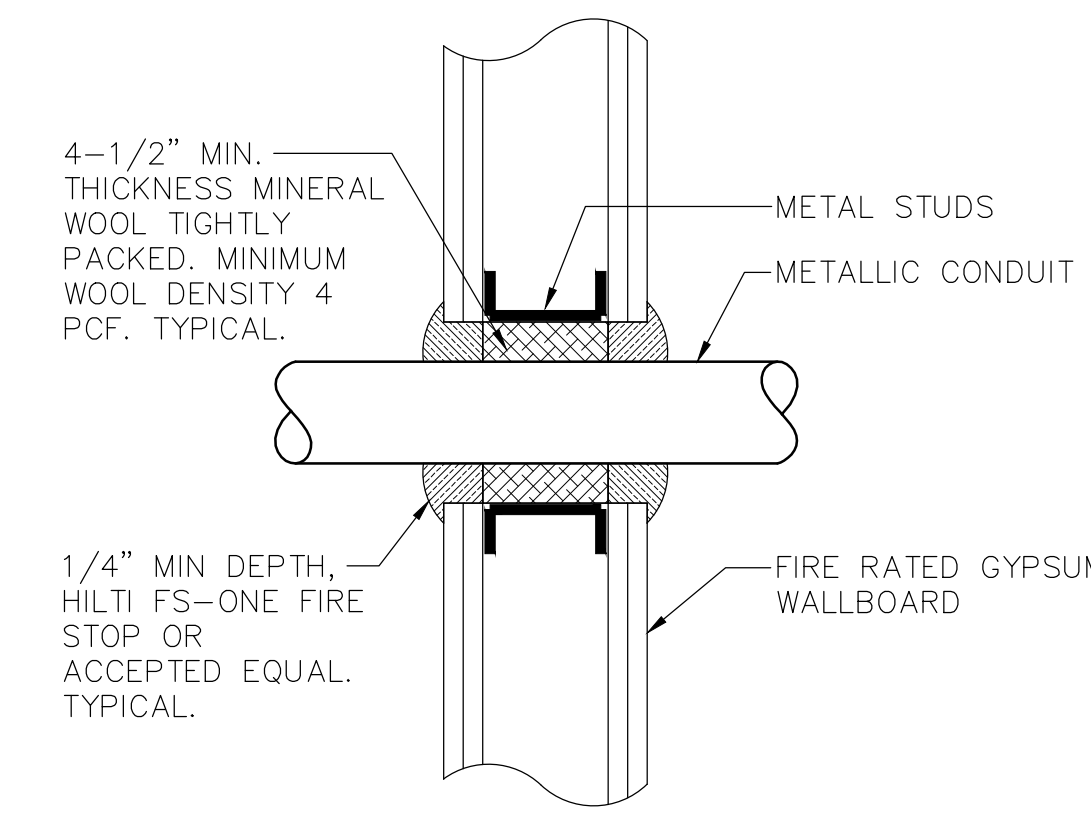
TRANSFORMER CLEARANCE NOTES:

- 1.) AREA IN FRONT OF DOOR TO BE CLEAR OF ALL ROCKS, STUMPS AND OTHER OBSTRUCTIONS SO THAT THE OPERATOR HAS A SAFE WORKING AREA.
- 2.) UTILITY COMPANY SHALL HAVE THE RIGHT TO CUT BACK GROWING BUSHES TO WITHIN STATED CLEARANCES.

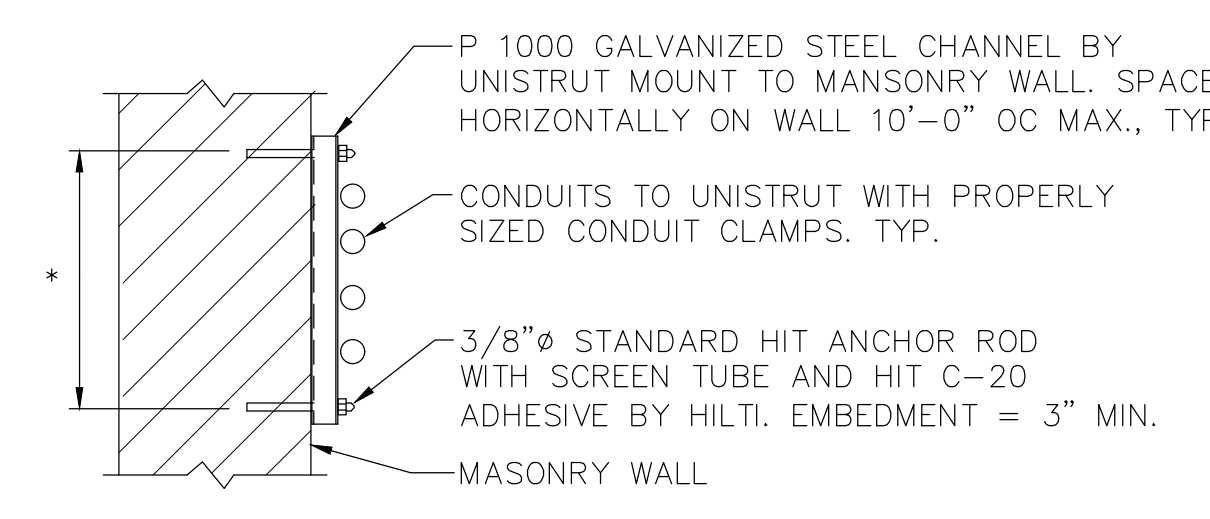
10 CLEARANCE FOR PLANTING AROUND TRANSFORMER PAD
SCALE: NONE



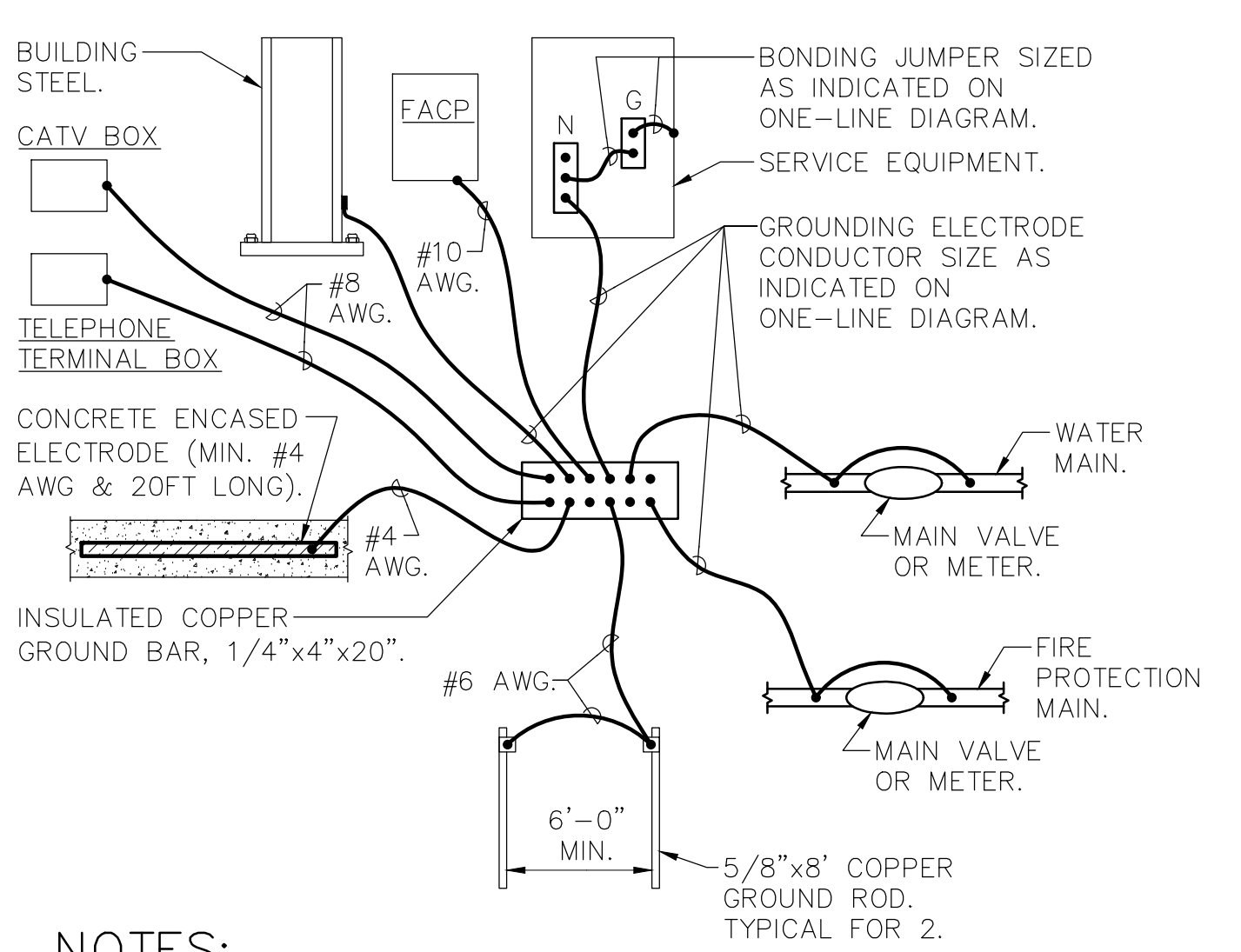
8 CEILING MOUNTED SMOKE DETECTOR LOCATION WITH RESPECT TO AIR DIFFUSER
SCALE: NONE



5 TYPICAL FIRE RATED GYPSUM WALL CONDUIT PENETRATION DETAIL
SCALE: NONE

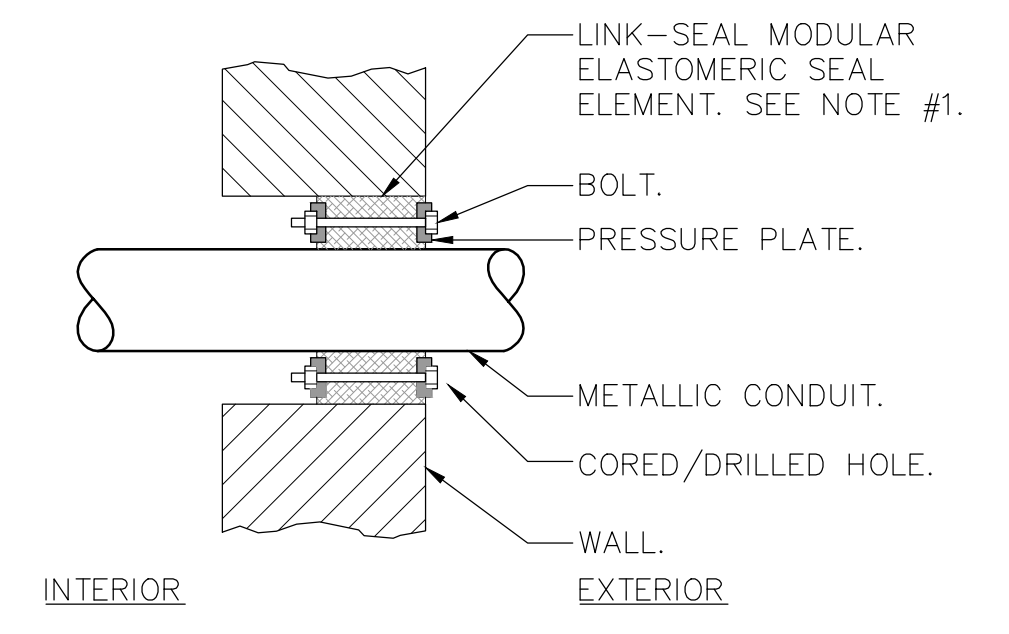


2 TYPICAL CONDUIT SUPPORT ON MASONRY
SCALE: 1" = 1'-0"



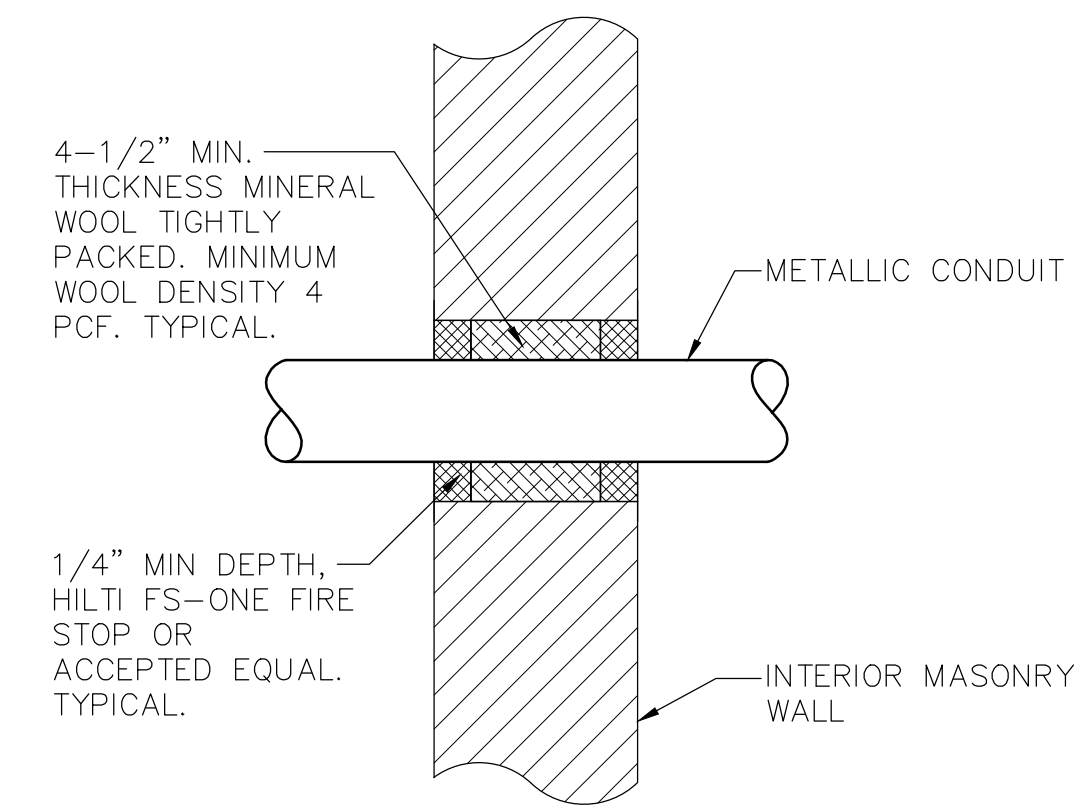
NOTES:
1.) CONNECTION TO WATER MAIN AND FIRE PROTECTION MAIN SHALL BE A MAXIMUM OF 5'-0" FROM WHERE THE PIPE ENTERS THE BUILDING AND BE PRIOR TO ANY METER, VALVE JOINT, ETC.
2.) ALL CONNECTIONS TO THE GROUND BAR SHALL BE MADE USING COMPRESSION LUGS SIZED TO ACCOMMODATE THE CONDUCTORS.

9 SERVICE GROUNDING DETAIL
SCALE: NONE

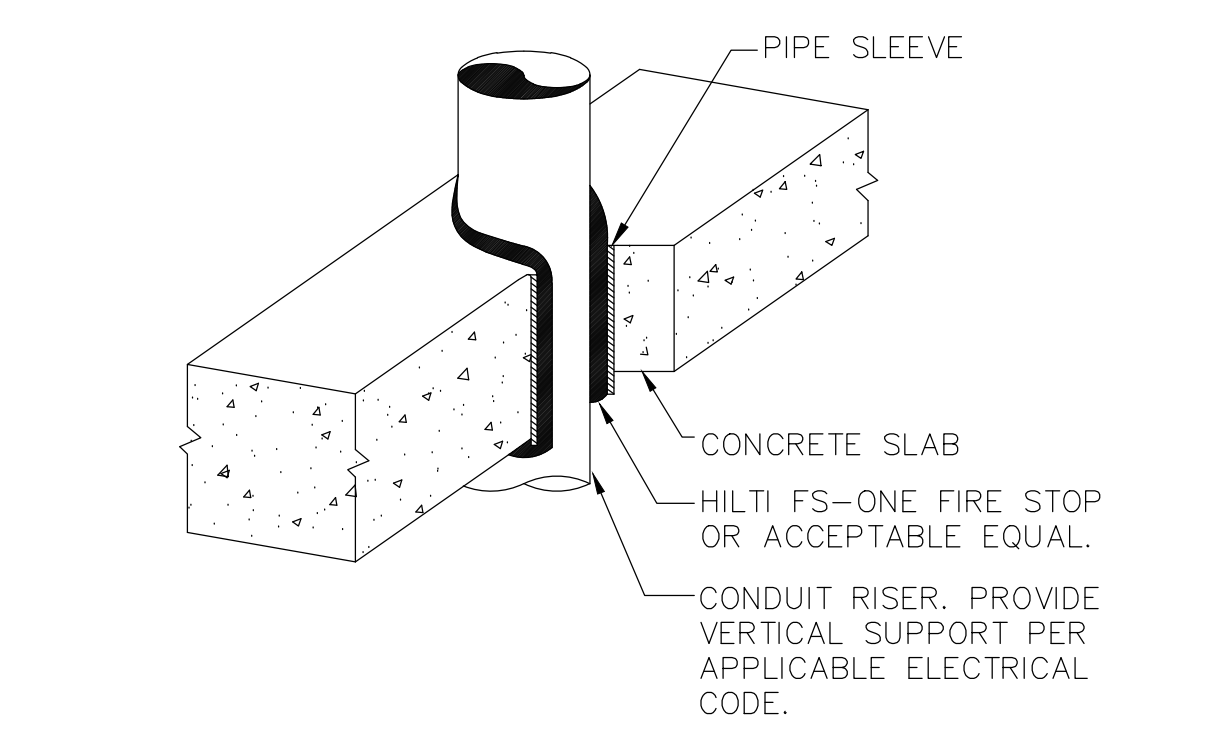


NOTES:
1.) SEAL ASSEMBLY BASED ON MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, REINFORCED NYLON POLYMER PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & CORROSION INHIBITING COATING NUTS AND BOLTS AND WITH A OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
2.) PROVIDE AND INSTALL TWO SEALS WHEN PENETRATED WALL THICKNESS IS GREATER THAN 12".
3.) PROVIDE SCHEDULE 80 WALL SLEEVE FOR NEW WALL CONSTRUCTION PER MANUFACTURER'S REQUIREMENTS.

7 TYPICAL EXTERIOR MASONRY WALL BELOW GRADE CONDUIT PENETRATION DETAIL
SCALE: NONE



4 TYPICAL INTERIOR MASONRY WALL CONDUIT PENETRATION DETAIL
SCALE: NONE



1 TYPICAL VERTICAL CONDUIT PENETRATION DETAIL
SCALE: NONE

NOTE: ALL IDEAS, DESIGN ARRANGEMENTS AND PLANS NEGOTIATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KG+D ARCHITECTS, PC AND ARE NOT TO BE REPRODUCED OR USED FOR ANY OTHER PROJECT. NONE OF SUCH IDEAS, DESIGN ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF KG+D.

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Professional Seal

| No. | Date | Issue |
|-----|------------|------------------------|
| 4 | 06/05/2024 | ISSUED FOR BID |
| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

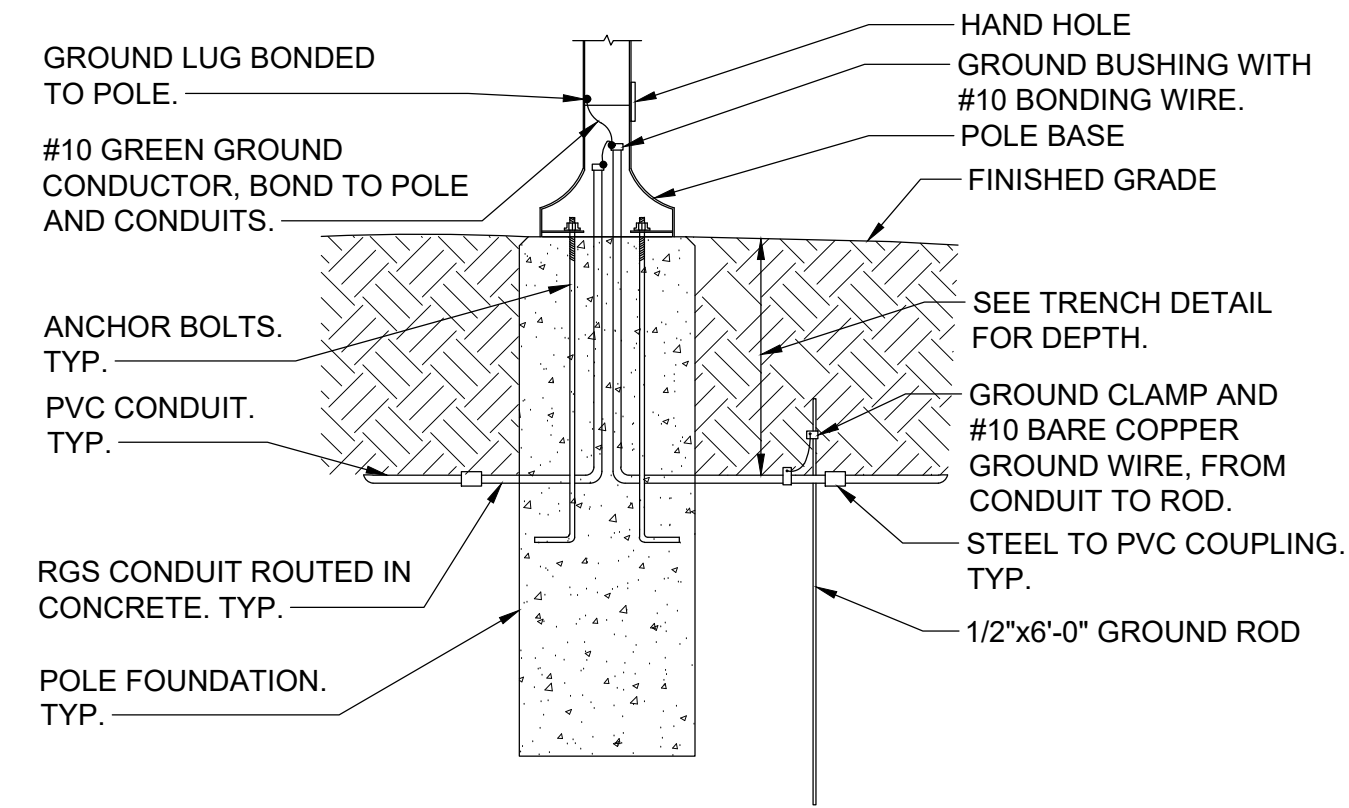
Sheet Title

**ELECTRICAL
DETAILS**

| Job No. | Date |
|-------------|------------|
| NKGD0207.00 | 03/01/2024 |

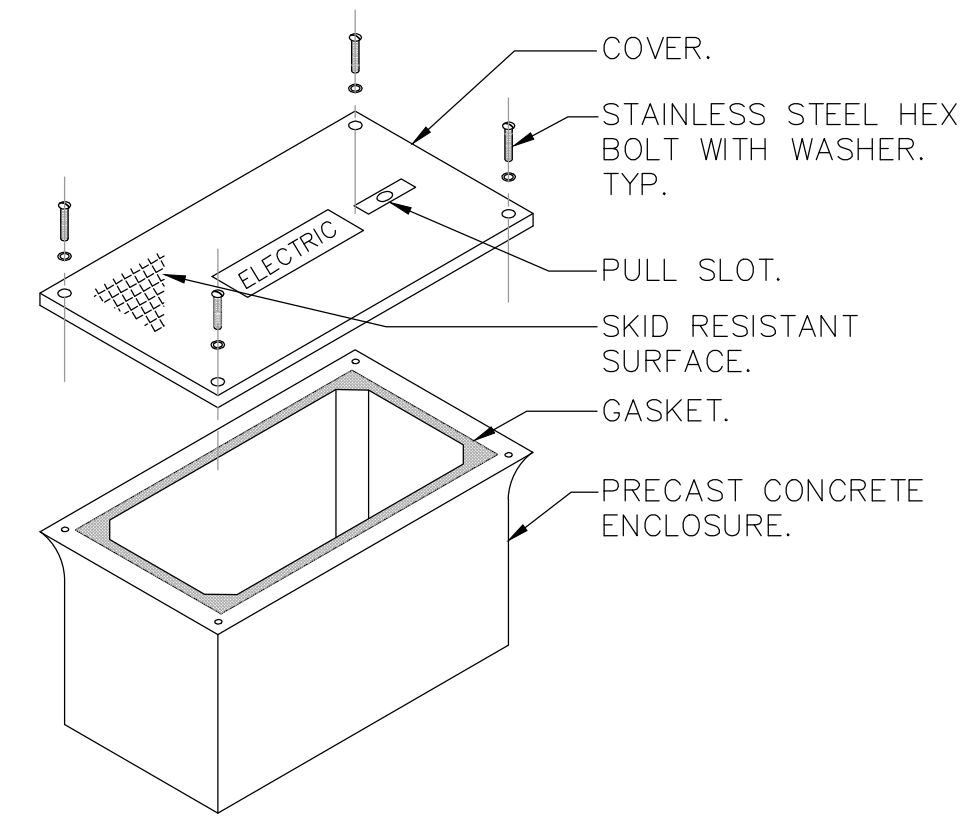
| Scale | Drawn / Checked |
|----------|-----------------|
| AS NOTED | JJ / MLDS |

Sheet Number



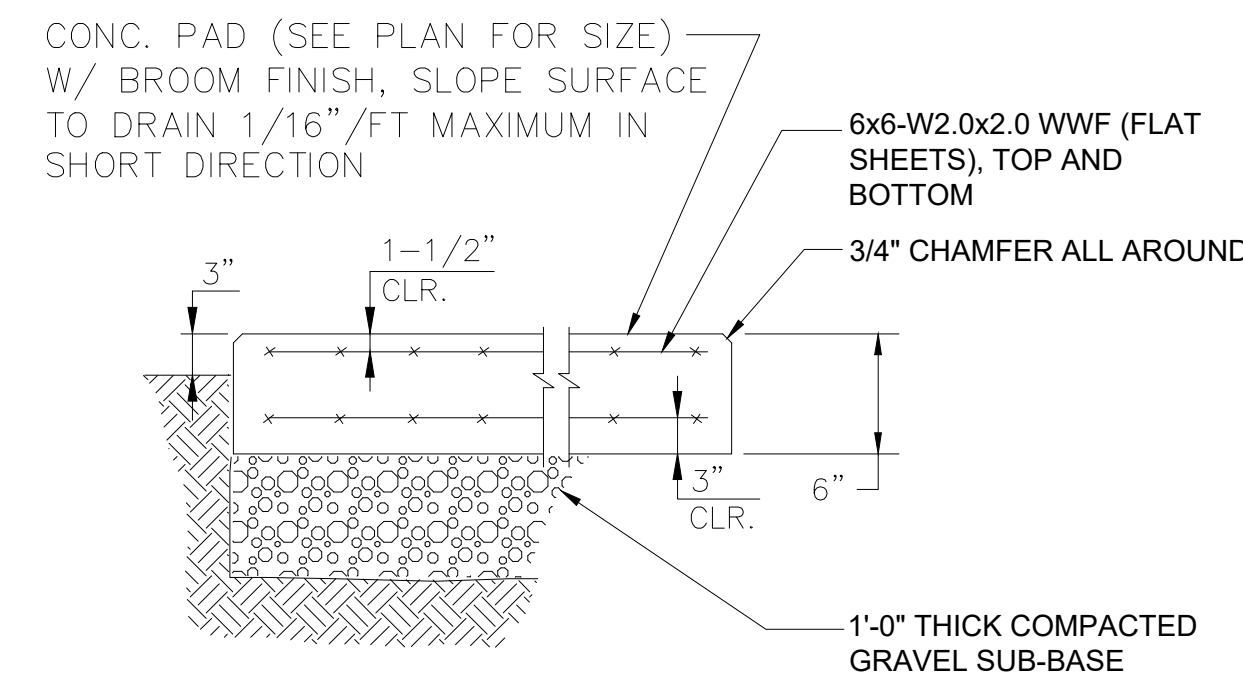
NOTE:
1. THIS DETAIL PROVIDES ELECTRICAL GROUNDING/BONDING AND RACEWAY INFORMATION ONLY. SEE STRUCTURAL DRAWINGS FOR POLE FOUNDATION INFORMATION.

12 LIGHT POST ELECTRICAL INSTALLATION DETAIL
SCALE: NONE

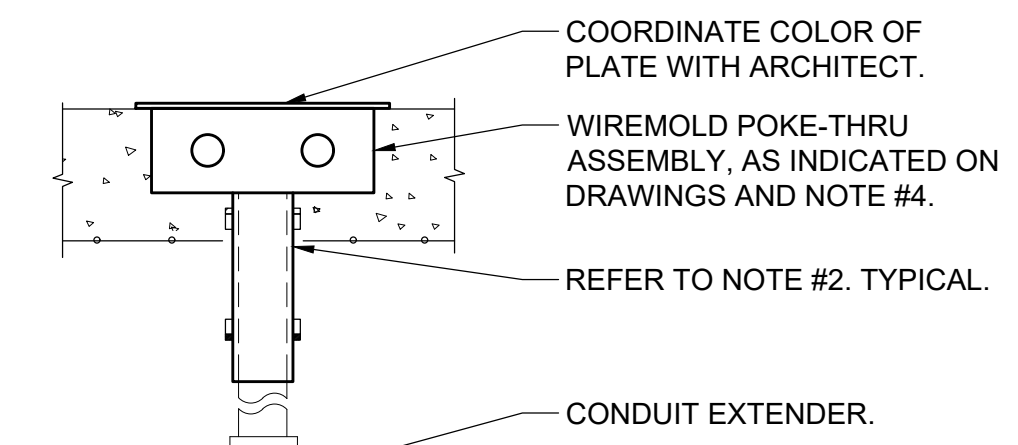


NOTES:
1.) HAND HOLE SHALL BE 18" L x 11" W x 12" H WITH OPEN BOTTOM AND RATED FOR VEHICULAR TRAFFIC AS MANUFACTURED BY QUAZITE, MODEL #PG118BA12 OR EQUAL. BOX SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2.) PROVIDE 6" OF GRAVEL BELOW BOX.
3.) COVER SHALL BE IMPRINTED WITH THE APPROPRIATE DESCRIPTION OF BOX CONTENTS (I.E. ELECTRIC, TELEPHONE, DATA, CABLE TV, ETC.).

9 HAND HOLE DETAIL
SCALE: NONE

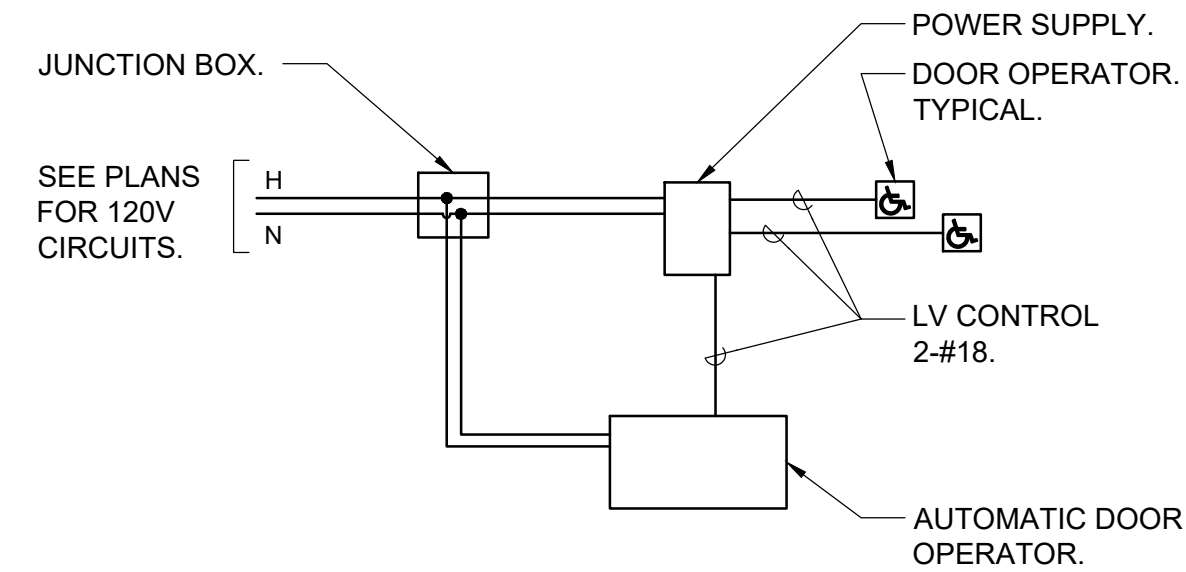


6 CONCRETE PAD DETAIL
N.T.S.



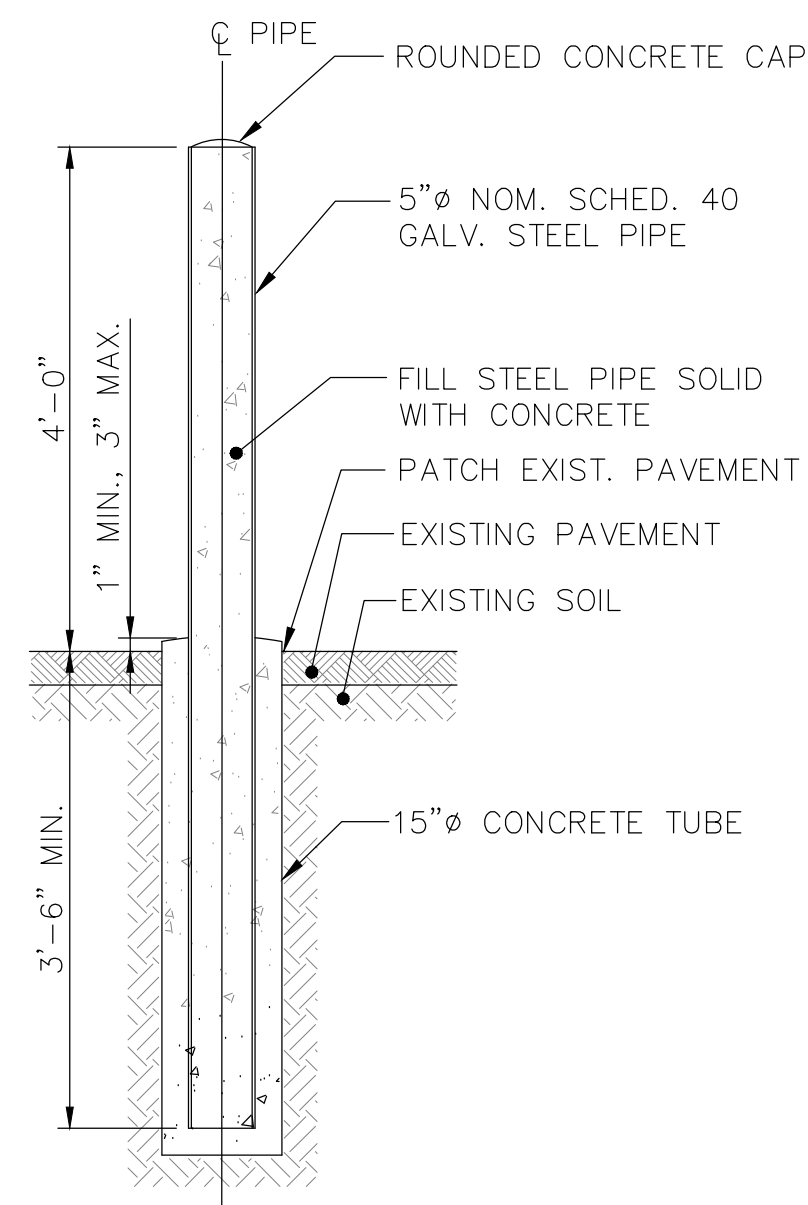
NOTES:
1. FIRE STOP SLEEVE ON UPPER AND UNDERSIDE OF FLOOR SLAB WITH 3 HOUR RATED FIRE STOP AS MANUFACTURED BY SPECIFIED TECHNOLOGIES INC. (STI) SPEC SEAL SSS INTUMESCENT SEALANT OR APPROVED EQUAL.
2. POKE-THRUS SHALL BE MIN. 2'-0" APART FROM EACH OTHER TO MAINTAIN FIRE RATING OF FLOOR.
3. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
4.) POKE THRU MODEL NUMBERS:
A. POKE THRU WITH (1) DUPLEX 20A RECEPTACLE AND (2) CATEGORY 6 INSERTS WIREMOLD MODEL # R3A1TC OR APPROVED EQUAL.
B. POKE THRU COMBINATION POWER/DATA/TELEPHONE WITH (2) DUPLEX 20A RECEPTACLES & (4) CATEGORY 6 INSERTS WIREMOLD MODEL #RC4A1TC OR APPROVAL EQUAL.

3 POKE-THRU DEVICE INSTALLATION DETAIL
SCALE: NONE

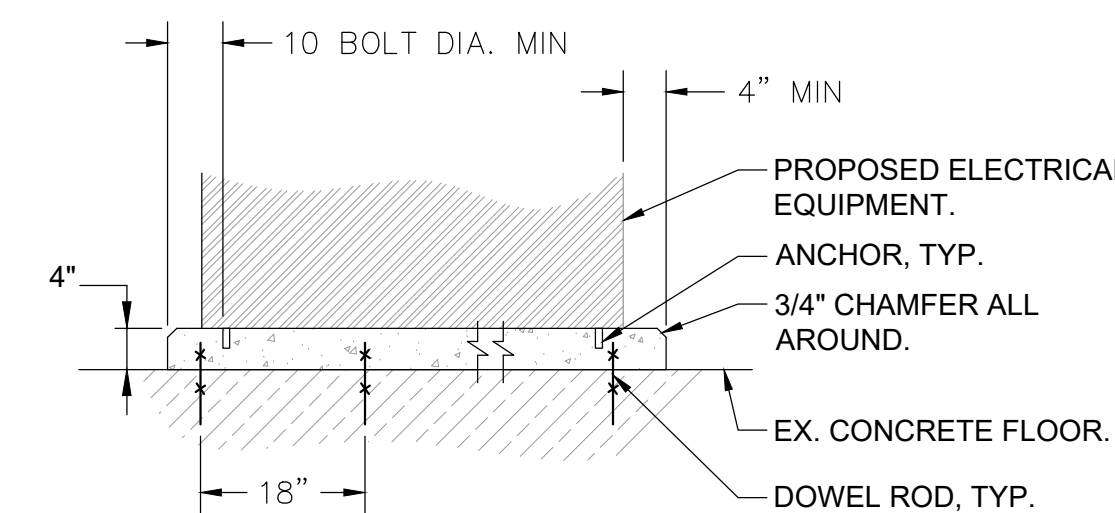


11 TYPICAL ADA DOOR OPERATOR WIRING DIAGRAM
SCALE: NONE

NOTES:
1. ELECTRICAL CONTRACTOR RESPONSIBLE TO PROVIDE ALL LINE AND LOW VOLTAGE CONTROL WIRING FOR ADA DOOR OPERATORS AS PER MANUFACTURER'S INSTRUCTIONS. ADA DOOR OPERATORS AND DEVICES TO BE FURNISHED BY THE GENERAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. COORDINATE ALL LOCATIONS WITH ARCHITECT.

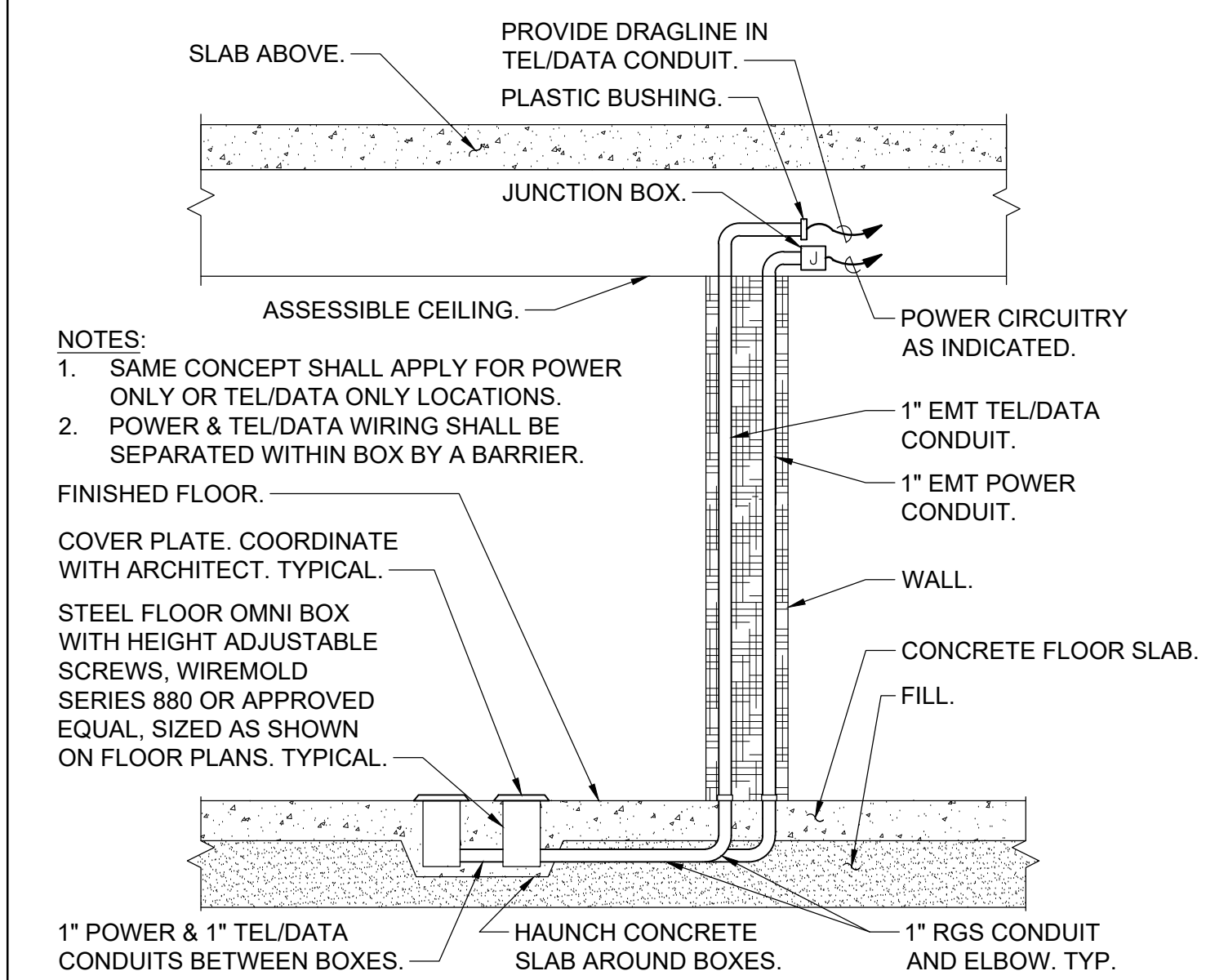


8 TYPICAL BOLLARD ON GRADE DETAIL
SCALE: NONE



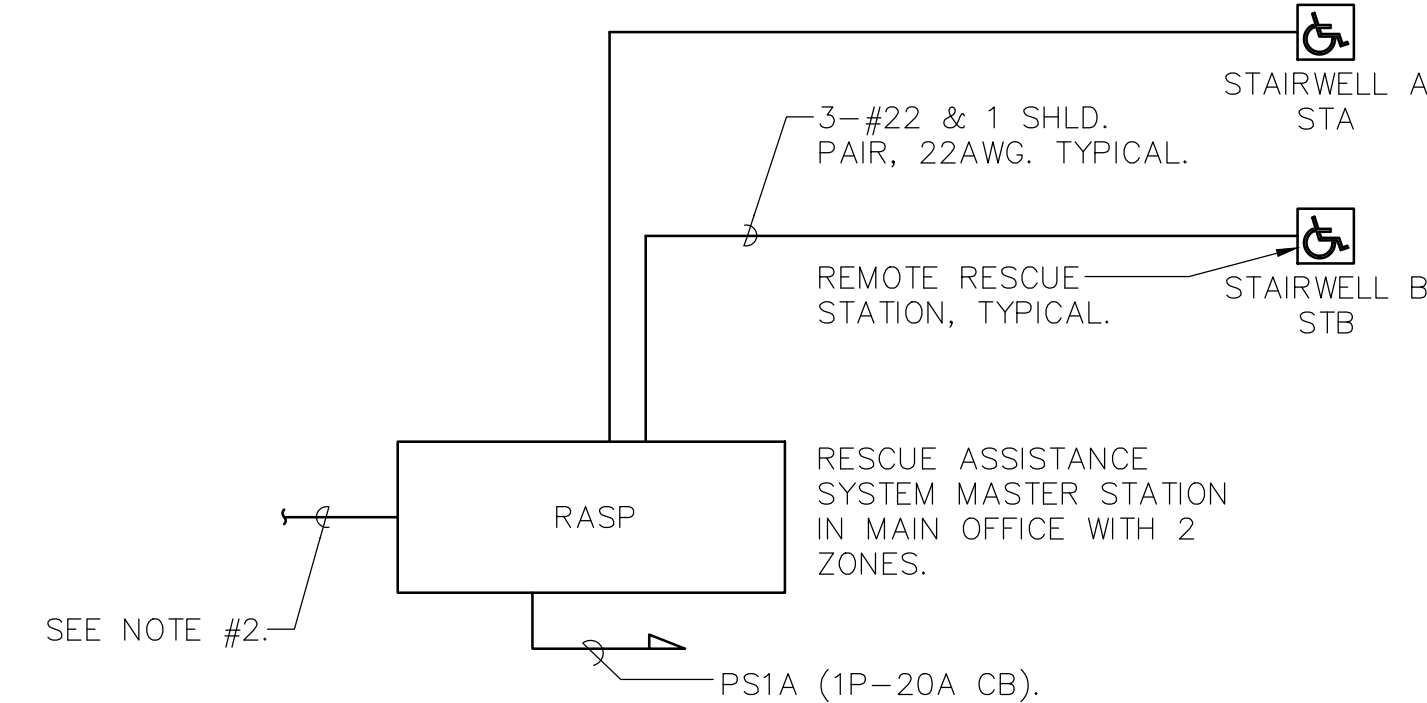
NOTES:
1. CONSTRUCT CONCRETE BASES OF DIMENSIONS INDICATED BUT NOT LESS THAN 4 INCHES LARGER IN BOTH DIRECTIONS THAN SUPPORTED UNIT, AND SO ANCHORS WILL BE A MINIMUM OF 10 BOLT DIAMETERS FROM EDGE OF THE BASE.
2. USE 3000PSI, 28-DAY COMPRESSIVE-STRENGTH CONCRETE.
3. ANCHOR EQUIPMENT TO CONCRETE BASE AS FOLLOWS:
a. INSTALL DOWEL RODS TO CONNECT CONCRETE BASE TO CONCRETE FLOOR. UNLESS OTHERWISE INDICATED, INSTALL DOWEL RODS ON 18-INCH CENTERS AROUND THE FULL PERIMETER OF CONCRETE BASE.
b. PLACE AND SECURE ANCHORAGE DEVICES. USE SUPPORTED EQUIPMENT MANUFACTURER'S SETTING DRAWINGS, TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED.
c. INSTALL ANCHOR BOLTS TO ELEVATIONS REQUIRED FOR PROPER ATTACHMENT TO SUPPORTED EQUIPMENT AND ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

5 INTERIOR CONCRETE EQUIPMENT PAD DETAIL
SCALE: NONE



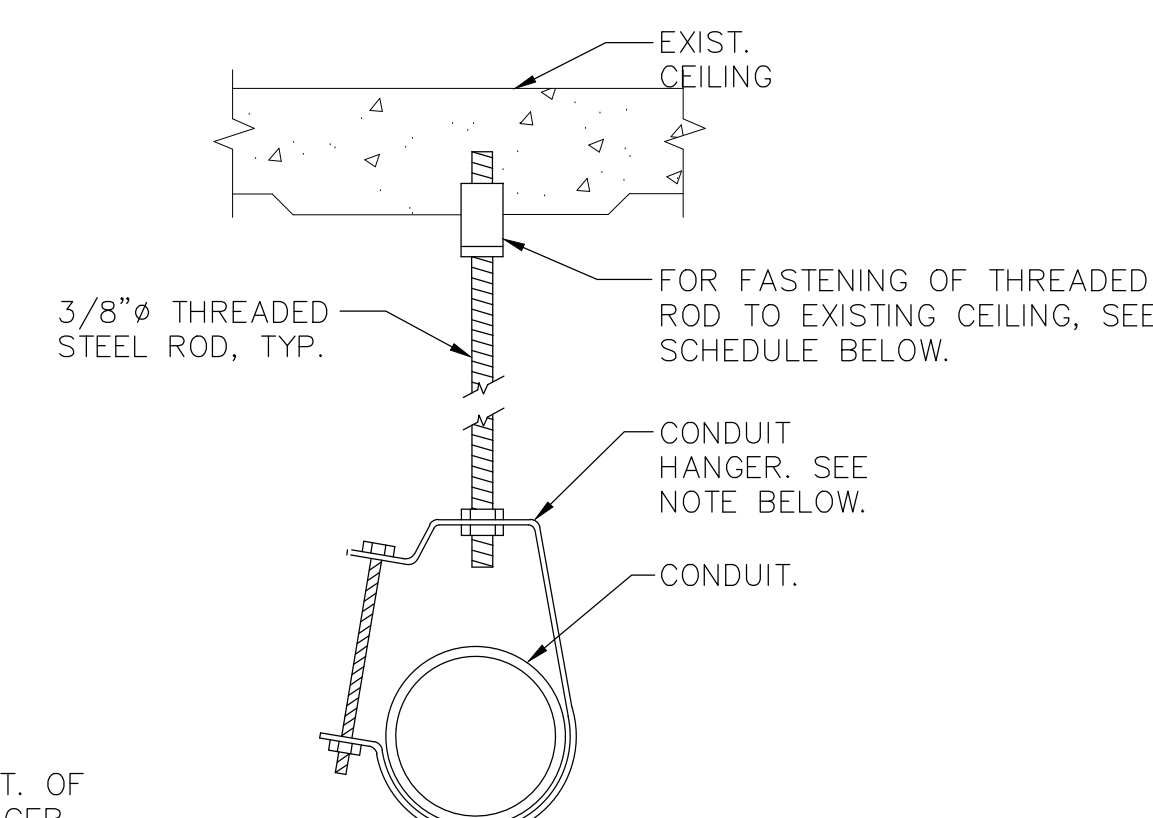
NOTES:
1. SAME CONCEPT SHALL APPLY FOR POWER ONLY OR TEL/DATA ONLY LOCATIONS.
2. POWER & TEL/DATA WIRING SHALL BE SEPARATED WITHIN BOX BY A BARRIER.
FINISHED FLOOR.
COVER PLATE. COORDINATE WITH ARCHITECT. TYPICAL.
STEEL FLOOR OMNI BOX WITH HEIGHT ADJUSTABLE SCREWS 880 OR APPROVED EQUAL. SIZED AS SHOWN ON FLOOR PLANS. TYPICAL.
1" POWER & 1" TEL/DATA CONDUITS BETWEEN BOXES.
HAUNCH CONCRETE SLAB AROUND BOXES.
1" RGS CONDUIT AND ELBOW, TYP.

2 FLOOR BOX INSTALLATION DETAIL
SCALE: NONE



10 RESCUE ASSISTANCE SYSTEM RISER DIAGRAM
SCALE: NONE

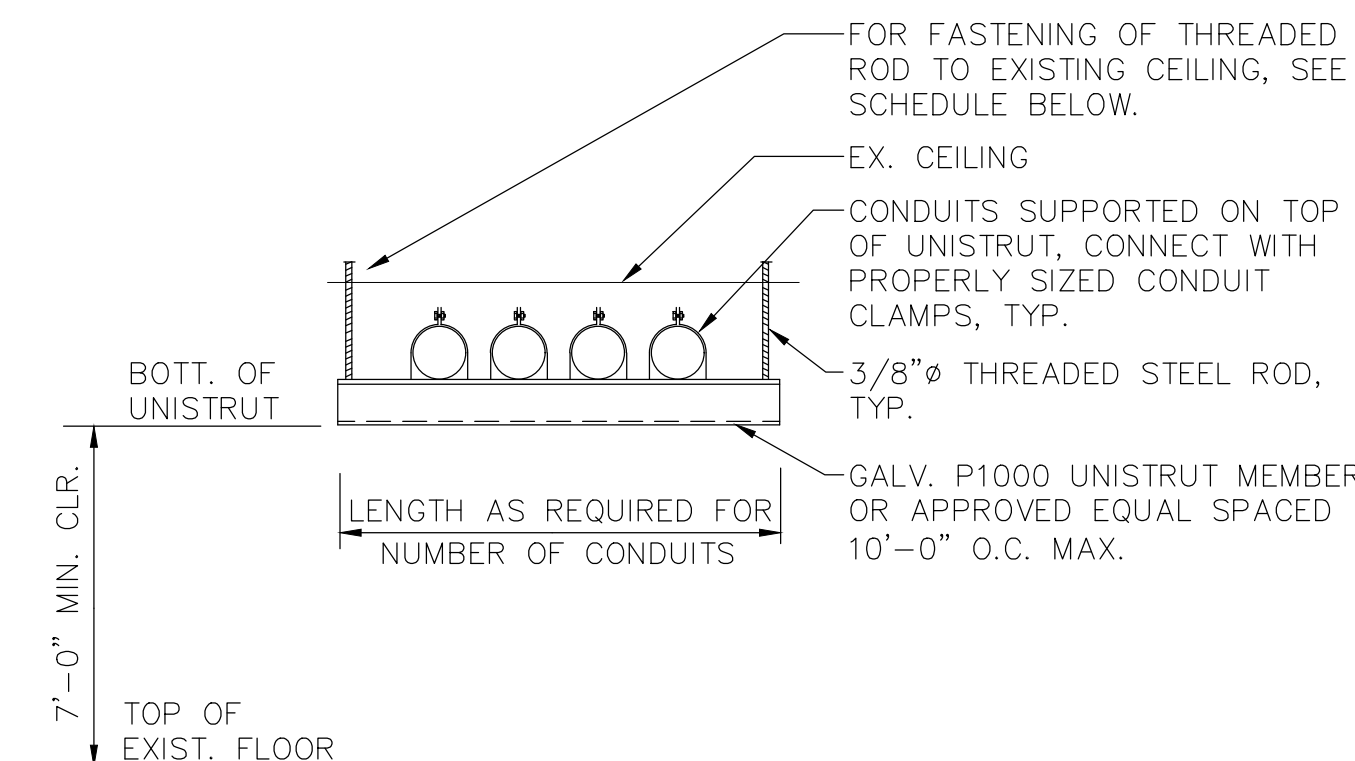
NOTES:
1.) PROVIDE ALL NECESSARY WIRING, MODULES, COMPONENTS, EXTENDER CABINET, AND PROGRAMMING REQUIRED.
2.) PROVIDE A PHONE LINE PLUS A DIALER FOR RESCUE ASSISTANCE SYSTEM MASTER STATION.



| CEILING CONSTRUCTION | ANCHOR TYPE | EMBEDMENT |
|----------------------|--------------------------|-----------|
| NORMAL WT. CONC | HILTI HDI DROP-IN ANCHOR | 1" MIN. |
| CINDER CONCRETE | HILTI KWIK BOLT II | 3" MIN. |
| HOLLOW CONSTRUCTION | TOGGLE BOLTS | NA |

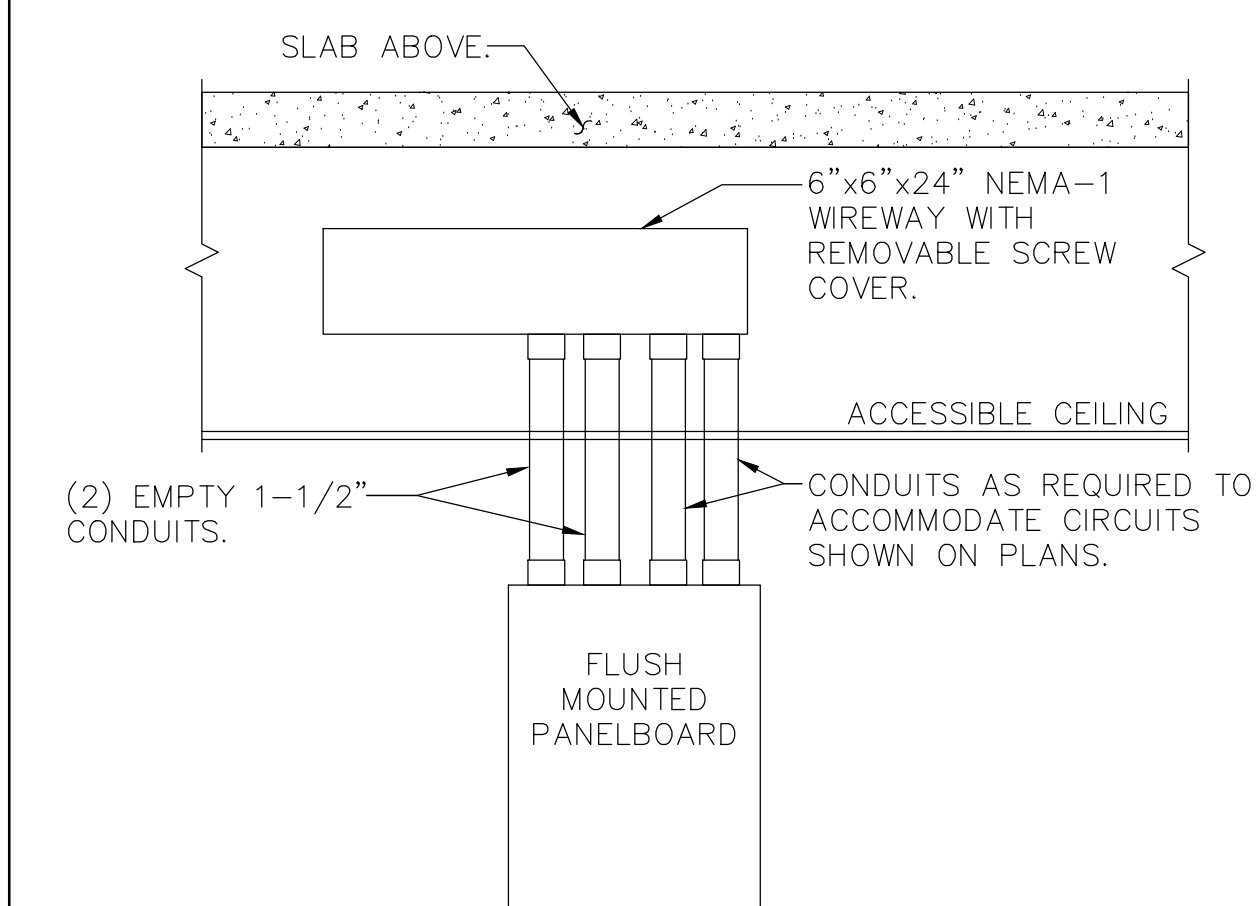
NOTE: CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1". GENERAL PURPOSE HANGERS MAY BE USED ON PIPING 1" OR SMALLER.

7 SINGLE CONDUIT HANGER DETAIL
SCALE: NONE



| CEILING CONSTRUCTION | ANCHOR TYPE | EMBEDMENT |
|----------------------|--------------------------|-----------|
| NORMAL WT. CONC | HILTI HDI DROP-IN ANCHOR | 1" MIN. |
| CINDER CONCRETE | HILTI KWIK BOLT II | 3" MIN. |
| HOLLOW CONSTRUCTION | TOGGLE BOLTS | NA |

4 TRAPEZE SUPPORT DETAIL
SCALE: NONE



NOTES:
1.) IN ADDITION TO CONDUITS FOR CIRCUITS INSTALLED AS PER PLANS, INSTALL ADDITIONAL EMPTY CONDUITS AS INDICATED ABOVE FOR FUTURE CIRCUITS.
2.) CONDUITS BETWEEN PANELBOARD AND WIREWAY TO BE CONCEALED WITHIN PARTITION.

1 FLUSH MOUNTED PANELBOARD DETAIL
SCALE: NONE

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| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title

ELECTRICAL DETAILS

Job No. NKGD0207.00 Date 03/01/2024

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Sheet Number

15 KV CABLE TESTING:

- REFERENCES: ANS/IEEE C2 – NATIONAL ELECTRICAL SAFETY CODE, ANS/NFPA 70 – NATIONAL ELECTRICAL CODE, IEEE 48 – TEST PROCEDURES AND REQUIREMENTS FOR HIGH-VOLTAGE ALTERNATING-CURRENT CABLE TERMINATIONS.
- SUBMITTALS: PROVIDE FOR CABLE, TERMINATIONS, ACCESSORIES & TEST REPORTS. MANUFACTURER'S INSTRUCTIONS; INDICATE APPLICATION CONDITIONS AND LIMITATIONS OF USE STIPULATED BY PRODUCT TESTING AGENCY SPECIFIED UNDER REGULATORY REQUIREMENTS.
- PROJECT RECORD DOCUMENTS: ACCURATELY RECORD ACTUAL SIZES AND LOCATIONS OF CABLES.
- OPERATION AND MAINTENANCE DATA: INCLUDE INSTRUCTIONS FOR TESTING AND CLEANING CABLE AND ACCESSORIES.
- QUALIFICATIONS: MANUFACTURER, COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE. INSTALLER, COMPANY SPECIALIZING IN INSTALLING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.
- MANUFACTURERS: 1) OKONITE COMPANY, 2) KING WIRE INC. 3) KERITE.
- FIELD QUALITY CONTROL: INSPECT EXPOSED CABLE SECTIONS FOR PHYSICAL DAMAGE, PROPER CONNECTIONS AS SHOWN ON DRAWINGS AND AS REQUIRED, GROUNDING, CABLE SUPPORTS, AND TERMINATIONS FOR PROPER INSTALLATION. PERFORM DC HIGH-POTENTIAL TEST OF EACH CONDUCTOR IN ACCORDANCE WITH NEMA WC 8 AND THE FOLLOWING REQUIRED TESTS.
- THE 15KV CABLE SHALL BE DC PROOF TESTED BY AN INDEPENDENT TESTING FIRM. THE ATTACHED DC PROOF TESTING FORM SHALL BE COMPLETED BY THE TESTING FIRM AND SUBMITTED FOR REVIEW.
- TEST LEVELS: A DIRECT-CURRENT VOLTAGE TEST SHALL BE MADE FOR SOLID DIELECTRIC CABLE IN ACCORDANCE WITH THE FOLLOWING TABLE:

| RATED CIRCUIT VOLTAGE PHASE TO PHASE KV | DC TEST VOLTAGE KV |
|--|-----------------------|
| 15 | 40 |

- THE VOLTAGE SHALL BE APPLIED BETWEEN THE CONDUCTOR AND THE METALLIC SHEATH, SHIELD OR CONCENTRIC NEUTRAL WIRES.
 - THE MAXIMUM APPLIED DIRECT-CURRENT VOLTAGE SHALL NOT BE GREATER THAN THREE (3) TIMES THE ALTERNATING CURRENT VOLTAGE RATING OF THE CABLE OR CABLE ACCESSORY.
 - THE RATE OF INCREASE FROM THE INITIALLY APPLIED VOLTAGE TO THE SPECIFIED TEST VOLTAGE SHALL BE APPROXIMATELY UNIFORM AND SHALL NOT BE OVER 100 PERCENT IN 10 SECONDS OR LESS THAN 100 PERCENT IN 60 SECONDS.
 - THE DURATION OF THE TEST SHALL BE 15 MINUTES AT FULL VOLTAGE AND THE LEAKAGE CURRENT SHALL NOT BE RECORDED UNTIL AT FULL VOLTAGE. THE CABLE MUST MAINTAIN THE SPECIFIED TEST VOLTAGE FOR THE DURATION OF THE TEST TO BE CONSIDERED ACCEPTABLE.
- PREPARATION FOR TESTING: THE INDEPENDENT TESTING COMPANY PERSONNEL SHALL COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS:
 - SAFETY – (TO PRECLUDE ACCIDENTAL CONTACT WITH THE CABLE(S) BEING TESTED)
 - THE TEST AREA AND THE CABLE (S) UNDER TEST SHALL BE ROPED OFF.
 - "DANGER-HIGH VOLTAGE" SIGNS SHALL BE DISPLAYED AROUND ALL ROPED OFF AREAS.
 - TEST PERSONNEL SHALL BE STATIONED AT ALL EXPOSED CABLE TERMINATIONS.
 - CLEARANCES – THE CABLE UNDER TEST MUST BE COMPLETELY ISOLATED FROM ALL EQUIPMENT.
 - TO REDUCE LEAKAGE CURRENT DURING TESTING, CLEAN THE TERMINATIONS AND COVER ANY EXPOSED METALLIC SURFACES WITH PLASTIC WRAP OR DUCT SEAL TO REDUCE CORONA EFFECTS.
 - MAINTAIN A CLEARANCE OF AT LEAST TWO FEET BETWEEN TEST POINT OR EXPOSED CABLE ENDS UNDER TEST AND ANY UNENERGIZED SURFACE AND AT LEAST THREE FEET BETWEEN TEST POINT OR EXPOSED CABLE ENDS AND ANY ENERGIZED SURFACE (BUS IN SWITCHGEAR, OTHER CIRCUITS OR CABLES, ETC.)
 - GROUNDING:
 - THE METALLIC SHIELDS (CONCENTRIC NEUTRALS, COPPER OR ZINC TAPES, DRAIN WIRES) OR METALLIC SHEATHS OF SHIELDED CABLE MUST BE GROUNDED DURING THE TEST.
 - CABLES NOT UNDER TEST MUST BE GROUNDED ON BOTH CONDUCTORS AND METALLIC SHEATHS.
 - AFTER EACH CABLE TEST THE CABLE SHALL BE ALLOWED TO DISCHARGE TO 10KV OR BELOW BEFORE APPLYING A GROUND. AN APPROPRIATE GROUNDING STICK OR RUBBER GLOVE SHALL BE USED AND/OR WORN WHEN APPLYING THE GROUND. GROUND MUST REMAIN ON FOR AT LEAST 15 MINUTES TO DRAIN CHARGE FROM TESTING.
 - CONNECTIONS
 - ALL BOLTED TERMINATIONS SWITCHES SHALL BE UNBOLTED AND PULLED INTO CLEARANCES AS NOTED ABOVE.
 - ALL LEADS EXTENDING FROM THE TOP OF ANY TERMINATION TO OVERHEAD LINES MUST BE REMOVED AND THE TERMINATION LOWERED TO OBTAIN ADEQUATE CLEARANCE.
 - SAMPLE: REPORTING FORM – DC PROOF TESTING

REPORTING FORM – DC PROOF TESTING

TESTING COMPANY NAME _____
 CUSTOMER _____
 LOCATION _____
 DATE OF TEST _____ TESTER'S NAME _____
 HUMIDITY _____% TEMPERATURE _____
 WEATHER: CLOUDY _____ RAIN _____ SNOW _____
 FOG _____ SUNNY _____

| PHASE IDENTIFICATION | | | |
|----------------------|---|---|---|
| KV TEST VOLTAGE | | | |
| MICROAMPERES | μ | μ | μ |
| TEST SET LEAKAGE | | | |
| 15 SECONDS | | | |
| 30 SECONDS | | | |
| 45 SECONDS | | | |
| 1 MINUTE | | | |
| 2 MINUTES | | | |
| 3 MINUTES | | | |
| 4 MINUTES | | | |
| 5 MINUTES | | | |
| 6 MINUTES | | | |
| 7 MINUTES | | | |
| 8 MINUTES | | | |
| 9 MINUTES | | | |
| 10 MINUTES | | | |
| 11 MINUTES | | | |
| 12 MINUTES | | | |
| 13 MINUTES | | | |
| 14 MINUTES | | | |
| 15 MINUTES | | | |

CABLE MANUFACTURER: _____
 CABLE RELATED VOLTAGE: _____
 OPERATING VOLTAGE: _____
 CONDUCTOR SIZE: _____
 TYPE OF INSULATION: _____
 NUMBER OF CONDUCTORS: _____
 LENGTH: _____
 AGE: _____
 TYPE OF JACKET: _____
 SEPARATE NEUTRAL: _____
 OR
 CONCENTRIC NEUTRAL WIRES: _____
 TYPE OF TERMINATIONS AT TEST
 END: _____

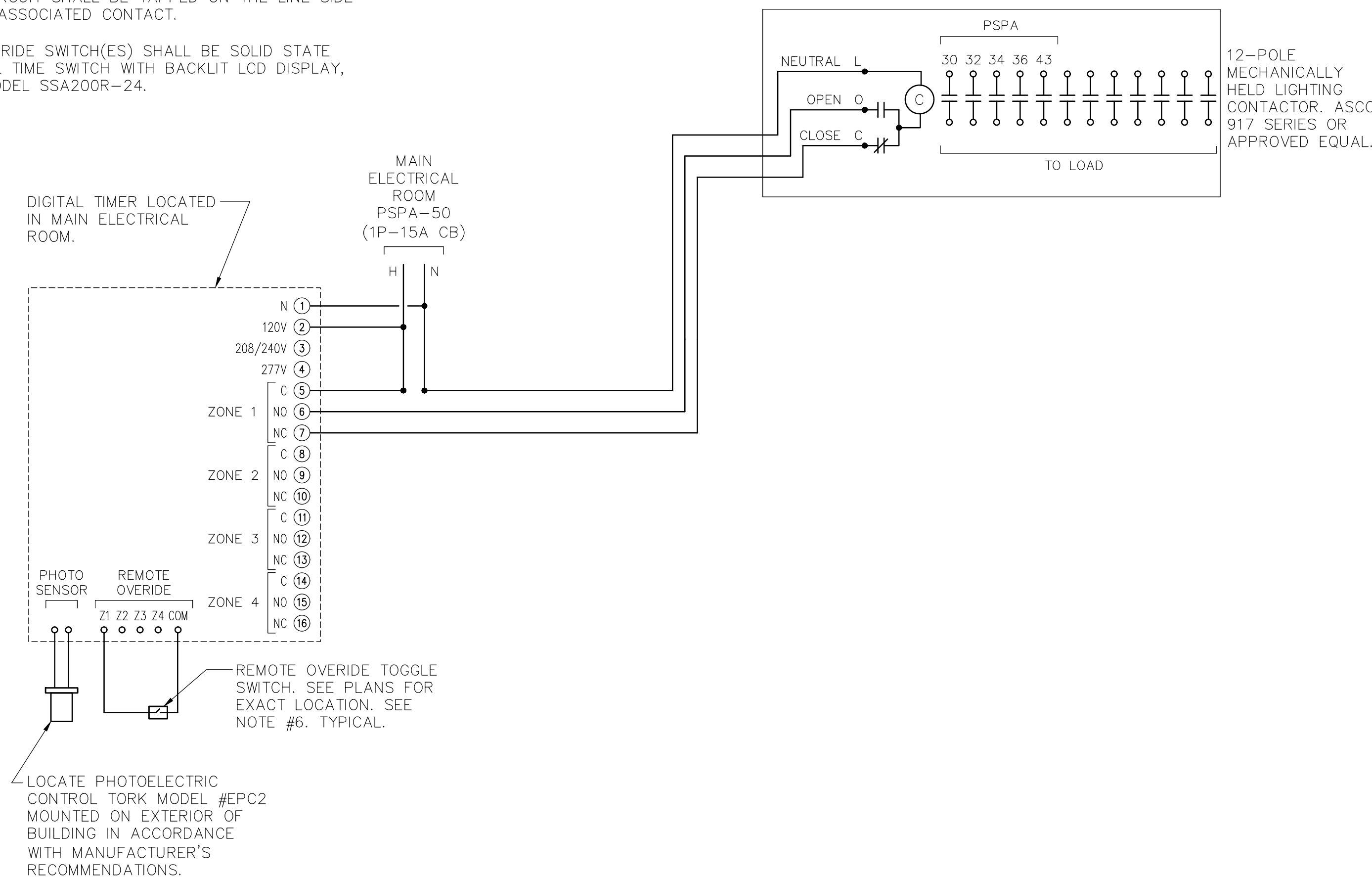
 TYPE OF TERMINATIONS AT
 OPPOSITE END: _____

 REMARKS: _____

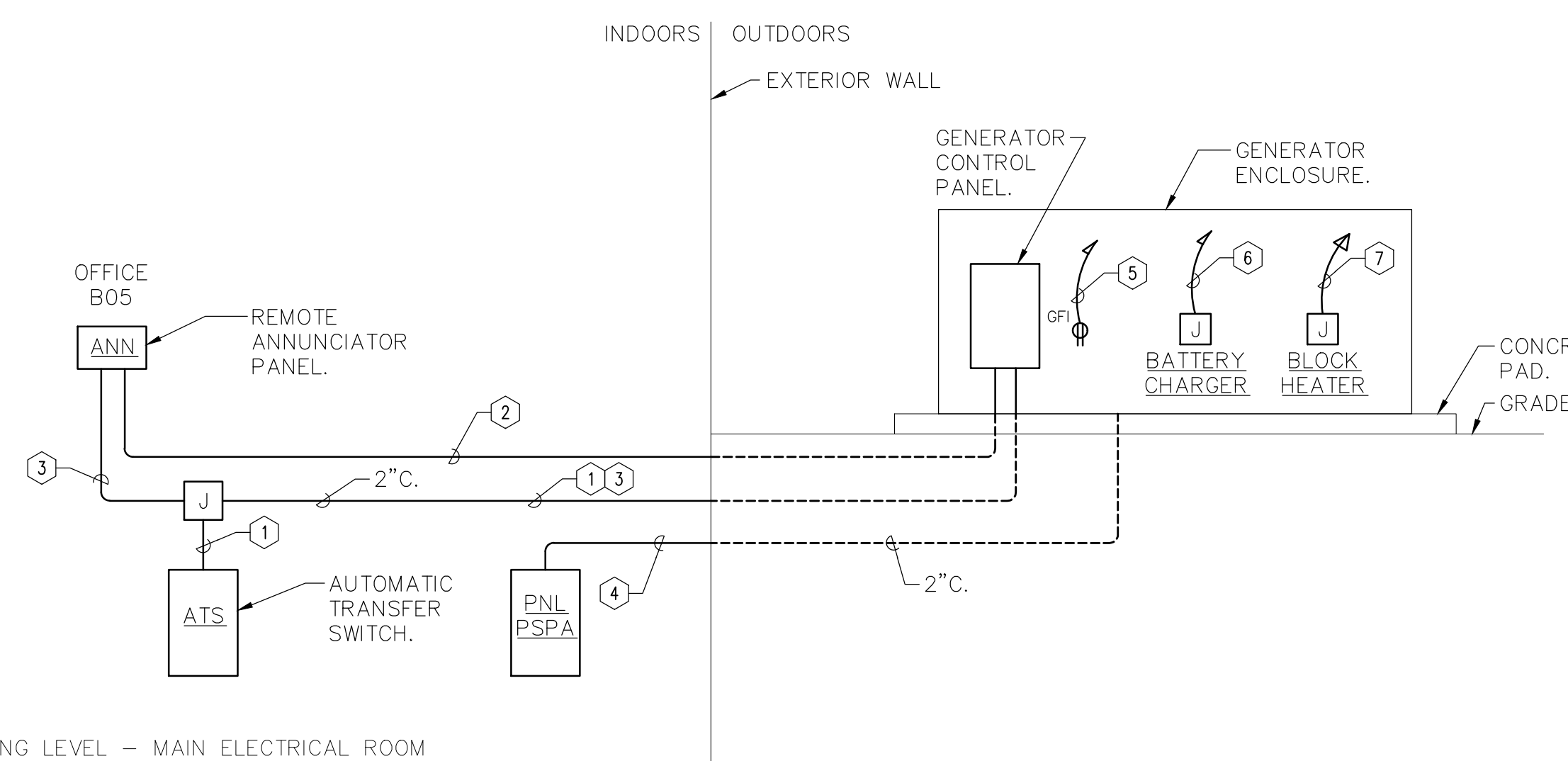
- PROTECTION:
 - PROTECT INSTALLED CABLES FROM ENTRANCE OF MOISTURE.

NOTES:

- TIMER SHALL BE A DEDICATED 4 ZONE DIGITAL LIGHTING CONTROLLER WITH PHOTO SENSOR INPUT. EACH ZONE SHALL BE CAPABLE OF INDEPENDENT USER SETTABLE CONTROL BASED ON TIME OF DAY, LIGHT LEVEL OR A COMBINATION OF BOTH. TIMER SHALL HAVE CAPABILITY TO BE OVERRIDDEN LOCALLY VIA KEYPAD AND/OR REMOTELY VIA STANDARD TOGGLE SWITCHES. TORK MODEL #DL400 OR EQUAL.
- DIGITAL TIMER SHALL BE PROGRAMMED AS FOLLOWS:
 ZONE 1: TIMER ON / TIMER OFF
 ZONE 2: PHOTOCELL ON / TIMER OFF
 ZONE 3: PHOTOCELL ON / PHOTOCELL OFF
 ZONE 4: (SPARE)
- LIGHTING CONTACTORS SHALL BE LOCATED ADJACENT TO ASSOCIATED PANELBOARDS U.O.N.
- LIGHTING CONTACTORS SHALL BE INSTALLED IN NEMA-1 ENCLOSURES EQUIPPED WITH LOCKABLE HINGED COVERS.
- POWER FOR FIXTURES AND CIRCUITS REQUIRED TO BE TAKEN FROM THE UNSWITCHED LEG OF A GIVEN CIRCUIT SHALL BE TAPPED ON THE LINE SIDE OF THE ASSOCIATED CONTACT.
- OVERRIDE SWITCH(ES) SHALL BE SOLID STATE INTERVAL TIME SWITCH WITH BACKLIT LCD DISPLAY, TORK MODEL SSA200R-24.



2 SITE LIGHTING CONTROL SCHEMATIC DIAGRAM
SCALE: NONE



1 GENERATOR CONTROL WIRING RISER DIAGRAM
SCALE: NONE

LEGEND:

- 4-#12 AWG. START CIRCUIT FROM AUTOMATIC TRANSFER SWITCH TO GENERATOR CONTROL PANEL.
- TWISTED SHIELDED PAIR – BELDEN #9841. COMMUNICATIONS CIRCUIT FROM GENERATOR CONTROL PANEL TO REMOTE ANNUNCIATOR.
- 2-#12 AWG. POWER FROM GENERATOR SET BATTERY TO REMOTE ANNUNCIATOR.
- POWER CONDUIT FOR BRANCH CIRCUITS TO GENERATOR SET. SEE CIRCUIT INFORMATION FOR ITEMS 5, 6 & 7 BELOW.
- PSPA-37
- PSPA-39
- PSPA-33,35

NOTES:

- WIRING ON THIS DETAIL SHOWN FOR INFORMATIONAL PURPOSES ONLY. COORDINATE EXACT SIZE, QUANTITY AND TYPE OF WIRING WITH MANUFACTURER'S SUGGESTION FOR EQUIPMENT PURCHASED.
- CONDUITS SHALL BE 1" U.O.N.
- SEE ONE-LINE DIAGRAM FOR POWER OUTPUT FEEDERS INFORMATION.

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2
 Town / Village of Harrison
 270 Harrison Avenue
 Harrison, NY 10528

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 285 MAIN STREET- MOUNT KISCO, NEW YORK 10549
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 Hawthorne, NY 10532
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 Suite 501
 New York, NY 10018
 646.849.4110
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CONSTRUCTION DOCUMENTS

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Sheet Title

ELECTRICAL DETAILS

| Job No. | Date |
|--------------|-----------------|
| NKGD0207.00 | 03/01/2024 |
| Scale | Drawn / Checked |
| AS NOTED | JJ / ML/DS |
| Sheet Number | |

E-703

HARRISON RECREATION CENTER

270 HARRSON AVE
HARRISON, NY 10528

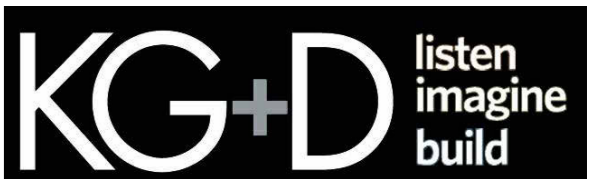
TELECOMMUNICATION BID SET

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

NOTE: THE BIDDING LOW VOLTAGE CONTRACTOR (LVC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION

CONSTRUCTION DOCUMENTS

TELECOMMUNICATION DRAWING LIST

TC-000 TELECOMMUNICATION COVER SHEET AND DEVICE LEGEND

FLOOR PLANS

TC-100 TELECOMMUNICATION LOWER LEVEL DEVICE PLAN
TC-101 TELECOMMUNICATION 1ST FLOOR DEVICE PLAN
TC-102 TELECOMMUNICATION 2ND FLOOR DEVICE PLAN

RISER DIAGRAMS

TC-200 TELECOMMUNICATION RISER DIAGRAMS

CLOSET DETAILS

TC-300 TELECOM CLOSET TC-1 AND TC-2 ELEVATION AND DETAILS

TYPICALS

TC-700 TELECOMMUNICATION DETAILS - 1
TC-701 TELECOMMUNICATION DETAILS - 2

| MANUFACTURER | EQUIPMENT LIST | DESCRIPTION |
|--------------|--|-------------|
| ODC | STANDARD SIZE EYESTONE FACIPLATE 1 GANG, 2 PORT - P/N: PFS0112 OR EQUIVALENT | |
| ODC | STANDARD SIZE EYESTONE FACIPLATE 1 GANG, 2 PORT - P/N: PFS0112 OR EQUIVALENT | |
| ODC | STANDARD SIZE EYESTONE FACIPLATE 1 GANG, 4 PORT - P/N: PFS0412 OR EQUIVALENT | |
| ODC | CATS RJ45 CONNECTOR - P/N: 2020102 OR EQUIVALENT | |
| ODC | 8 POSITION MODULAR JACK, CAT 4 MODULE, EYESTONE MOUNT, THERMOPLASTIC, BRGHT WHITE - P/N: KMJA412 OR EQUIVALENT | |
| UHF | HIGH PERFORMANCE, CEILING-MOUNTED W/4 ACCESS POINT DESIGNED FOR LARGE OFFICES, 1500FT SQ. FT. W/4 P/N: US-PH OR EQUIVALENT | |
| EATON | SURFACE MOUNT BOX FOR KEYSTONE JACKS - 1 PORT, WHITE, SURFACE MOUNT - P/N: 1002300-1W1 OR EQUIVALENT | |
| ICC | CATS FEED THROUGH PATCH PANEL WITH 48 PORTS - P/N: ICMF48CP3 OR EQUIVALENT | |
| ICC | CATS FEED THROUGH PATCH PANEL WITH 48 PORTS AND 2 RJ45 - P/N: ICMF48CP3 OR EQUIVALENT | |
| INS | 3U FIBER LU - P/N: RFC20-4AP8 OR EQUIVALENT | |
| INS | DUPLEX ADAPTER PLATE FOR FIBER LU - P/N: 61120MDC OR EQUIVALENT | |
| NAVPOINT | 2U HORIZONTAL STEEL CABLE MANAGEMENT RACKWAY 2.8 INCHES DEEP, BLACK - P/N: 00404166 OR EQUIVALENT | |
| HOFMAN | LADDER RACK STRAIGHT SECTIONS - P/N: LS12BK OR EQUIVALENT | |
| HOFMAN | 2U HORIZONTAL STEEL CABLE MANAGEMENT RACKWAY 2.8 INCHES DEEP, BLACK - P/N: 00404166 OR EQUIVALENT | |
| HOFMAN | CABLETRAY VERTICAL CABLE MANAGER DOUBLE ENDERS - P/N: ED1R1M4SU OR EQUIVALENT | |
| HOFMAN | 4SU OPEN FRAME RACK 3 POST, BLACK, ALUMINUM - P/N: ED1R1M4SU OR EQUIVALENT | |
| HOFMAN | VERTICAL CABLE MANAGER DOUBLE, BLACK, ALUMINUM - P/N: DV1SD7 OR EQUIVALENT | |
| HOFMAN | TELECOM GROUND BAR KIT - P/N: DG1B212 OR EQUIVALENT | |
| HOFMAN | J-HOOK, 2 IN. 60 LB. LOAD, STEEL - P/N: CA132P OR EQUIVALENT | |
| SANFLOT | INDOOR, MULTIMODE 50/25, PLENUM, OM3 FIBER CABLE | |
| ICD | OM3 LC LC DUPLEX FIBER PATCH CABLE 50/25 MULTIMODE | |
| REVAE | CATEGORY 6 ENHANCED 550 MHz PLENUM CABLE - P/N: 68N6 OR EQUIVALENT | |

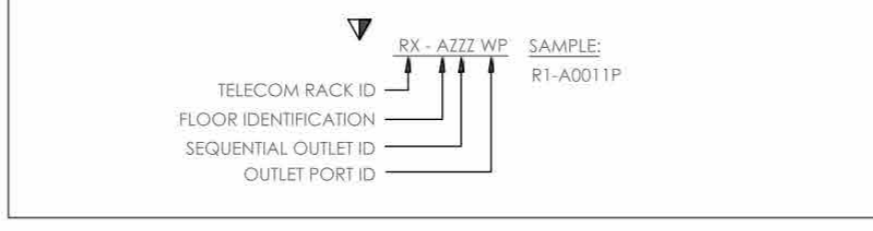
GENERAL NOTES

- TERMINATE RJ45 JACKS WITH T568B FINISHING.
- FURNISH AND INSTALL ALL TELECOM, AV AND SECURITY DEVICES SHOWN ON THE DRAWINGS. LABEL ALL CABLES WITHIN 12" OF FINAL TERMINATION.
- CONTRACTOR SHALL MAINTAIN THE TWIST OF INDIVIDUAL PAIRS TO WITHIN 1/2" OF FINAL TERMINATION FOR ALL.
- USE CATEGORY 6 OR HIGHER CABLES.
- TECHNOLOGY DRAWINGS ARE TO BE USED FOR CABLE SYSTEM INSTALLATION AND COORDINATION WITH OTHER CONTRACTORS AND SYSTEMS. PRIOR TO THE COMMENCEMENT OF INSTALLATION OF ANY ELEMENTS OF THE CABLE SYSTEM, THE CONTRACTOR:
- MEET WITH OWNER'S REPRESENTATIVES AND SUBMIT FOR APPROVAL INSTALLATION DETAILS INCLUDING CABLE ROUTING, WORK SCHEDULING, MATERIALS DELIVERY AND ANY OTHER DETAILS PERTINENT TO THE WORK.
- ALL MATERIAL SHALL BE INSTALLED IN COMPLIANCE WITH ALL CODE REQUIREMENTS, MANUFACTURER'S INSTRUCTIONS AND PRACTICES UNLESS WRITTEN DIRECTION TO THE CONTRARY IS PROVIDED.
- PROVIDE ALL SLEEVES AS SHOWN ON DRAWINGS UNLESS ALREADY PROVIDED BY ELECTRICAL CONTRACTOR.
- USE ONLY HOOK AND LOOP CABLE TIES (VELCRO) FOR CABLES WITH HIGHER THAN CATEGORY 3 RATING.
- ALL LABELS SHALL BE MACHINE PRINTED.
- USE ONLY PLENUM RATED CABLES.
- DO NOT RUN TELECOMMUNICATION CABLES PARALLEL TO POWER CABLES. CROSS POWER CABLES ONLY AT RIGHT ANGLES.
- MAINTAIN 8" DISTANCE FROM ALL LIGHTING TRANSFORMERS.
- SPRUNG OF CABLES IS NOT PERMITTED EXCEPT IF SPECIFICALLY NOTED.
- COLOR AND STYLE OF TELECOMMUNICATION FACE PLATES SHALL MATCH ELECTRICAL FACE PLATES AND BE COORDINATED WITH ARCHITECT.
- ALL OUTLET MOUNTING HEIGHTS AS PER ARCHITECT, UNLESS OTHERWISE NOTED.
- COMPLY WITH ALL BUILDING REGULATIONS AND COORDINATE ACCESS WITH BUILDING MANAGEMENT. OBTAIN ALL REQUIRED APPROVAL FROM BUILDING MANAGEMENT.
- OBTAIN AND EXTEND TO OWNER ALL AVAILABLE MANUFACTURER AND SYSTEM WARRANTIES.
- CONTRACTOR SHALL COORDINATE ANY CUTS WITH OWNER'S REPRESENTATIVE PRIOR TO ANY WORK. IN AREAS WITH EXISTING SOLO CEILING CONTRACTOR SHALL CUT AND PATCH OPENINGS TO PERMIT CABLE INSTALLATION.
- CONTRACTOR SHALL RESTORE CEILING AND WALLS AND ANY OTHER SURFACES AFFECTED BY THE WORK PRIOR TO ACCEPTANCE WITH USE MATERIALS TO MATCH EXISTING CONSTRUCTION.
- CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILES AND THEIR SUPPORTING FRAMEWORK STRUCTURE WITH MATCHING MATERIALS IN ACCESSIBLE CEILING AREAS.
- ALL CABLES RUN ABOVE CEILING SHALL BE PROPERLY SUPPORTED WITH ADJUSTABLE CABLE SUPPORTS MOUNTED TO SLAB AT MINIMUM OF 9" INTERVALS. NO CABLES SHALL REST OR TOUCH CEILING ASSEMBLIES.
- WHERE BACK TO BACK ELECTRICAL/TELECOM OUTLETS ARE INDICATED ON EACH SIDE OF THE SAME PARTITION/WALL, OUTLET BOXES SHALL BE STAGGERED MINIMUM 16" FOR ACCESSIBILITY.
- POWER AND PATHWAYS BY BASE BUILDING ELECTRICAL CONTRACTOR [EC]
- LOW VOLTAGE CONTRACTOR (LVC) IS TO FURNISH AND INSTALL ALL MATERIALS INCLUDING: CISCO SWITCHED, FIBER MODULES, WAP (WIRELESS ACCESS POINT) NEEDED LICENSES ETC. AND PROGRAM ALL TO MEET CUSTOMER'S DIRECTION

CABLING TERMINATION NOTES:

- AT THE OUTLET, TERMINATE VOICE/DATA UTP CABLES ON THE RJ-45 TYPE JACKS IN THE FACEPLATE / REEL / FLOOR BOX.
- IN THE END ROOMS, TERMINATE VOICE/DATA UTP CABLES ON THE CORRESPONDING 48-PORT PATCH PANELS MOUNTED ON THE 19" RACKS.
- ADDITIONAL CABLE SLACK SHALL BE PROVIDED FOR ALL TELECOMMUNICATIONS WORKSTATION CABLING.
 - MINIMUM OF 10" IN THE SERVING OF CLOSET.
 - MINIMUM OF 3" IN OUTLET LOCATIONS WITH A SLIP UP TO A SUSPENDED CEILING.
 - MINIMUM OF 8" AT THE OUTLET.
 - MINIMUM OF 12" IN A HIGHER RISE CONFIGURATION AT WAP OUTLET LOCATIONS.
- CABLE SLACK SHALL BE STORED IN AN EXTENDED LOOP OR FINGER EIGHT CONFIGURATION.
- PROVIDE SERVICE LOOP FOR ALL FIBER OPTIC CABLING INSTALLED. CABLE SLACK SHALL BE INSTALLED IN A FINGER EIGHT CONFIGURATION.
- USE APPROPRIATE FIBER TERMINATIONS LUGS, USING LC TYPE CONNECTORS.

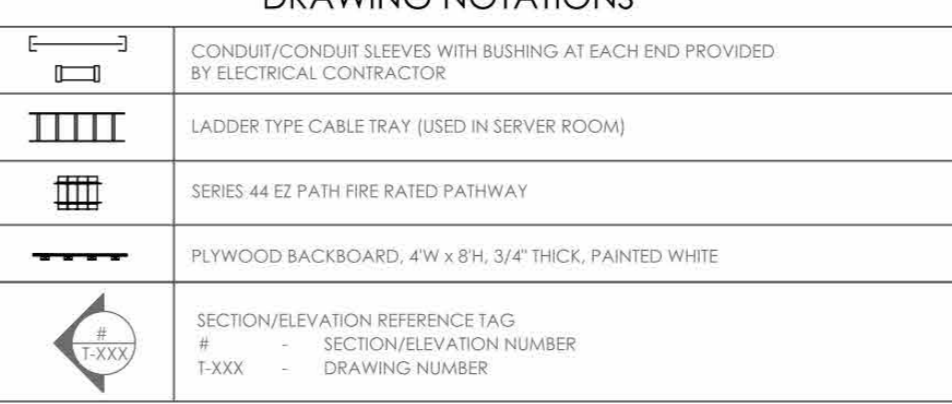
OUTLET KEY LEGEND



ABBREVIATIONS

| | |
|---------|--|
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE |
| ASTM | AMERICAN SOCIETY OF TESTING MATERIALS |
| AWG | AMERICAN WIRE GAUGE |
| **** | DEGREE CELSIUS |
| EC | EMPTY CONDUIT WITH DRAG LINE |
| IF | ENTRANCE FACILITY |
| EA | ELECTRONIC INDUSTRIES ASSOCIATION |
| EM | ELECTROMAGNETIC INTERFERENCE |
| EMT | ELECTRICAL METALLIC TUBING |
| ER | EQUIPMENT ROOM |
| **** | DEGREE FAHRENHEIT |
| FCC | FEDERAL COMMUNICATIONS COMMISSION |
| FEAT | FEAR-IND CROSSSTALK |
| FL | FLOOR |
| FO | FIBER OPTIC |
| FOFP | FIBER OPTIC PATCH PANEL |
| FT | FEET, FOOT |
| HC | HORIZONTAL CROSS-CONNECT |
| HVAC | HEATING, VENTILATION AND AIR CONDITIONING |
| IC | INTERMEDIATE CROSS-CONNECT |
| IDC | INSULATION DISPLACEMENT CONNECTOR |
| IDF | INTERMEDIATE DISTRIBUTION FRAME |
| IEEE | INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS |
| IN | INCHES |
| LAN | LOCAL AREA NETWORK |
| LB | FOUND |
| MC | MAIN CROSS-CONNECT |
| MDP | MAIN DISTRIBUTION FRAME |
| MM | MULTI-NODE FIBER OPTIC CABLE |
| NEC(R) | NATIONAL ELECTRICAL CODE(S) |
| NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| NEXT | NEAR END CROSSSTALK |
| NFPA(R) | NATIONAL FIRE PROTECTION ASSOCIATION(S) |
| NIS | NOT TO SCALE |
| PBX | PRIVATE BRANCH EXCHANGE (TELEPHONE SWITCH EQUIPMENT) |
| RF | RF/RFI |
| REQD | REQUIRED |
| ROC | ROUND STEEL CONDUIT |
| SC | SUBSCRIBER CONNECTOR (FIBER OPTIC) |
| SA | SINGLE MODE FIBER OPTIC CABLE |
| TBB | TELECOMMUNICATION BONDING BACKSHORE |
| TBD | TO BE DETERMINED |
| TC | TELECOMMUNICATION CLOSET |
| TIA | TELECOMMUNICATION INDUSTRY ASSOCIATION |
| TOS | TELECOMMUNICATION GROUNDING BUS BAR |
| TMBB | TELECOMMUNICATION MAIN GROUNDING BUS BAR |
| TR | TELECOMMUNICATION ROOM |
| TRP | TYPICAL |
| UL | UNDERWRITERS LABORATORIES |
| UNCN | UNLESS OTHERWISE NOTED |
| UTP | UNSHIELDED TWISTED PAIR |
| WAP | WIRELESS ACCESS POINT |

DRAWING NOTATIONS



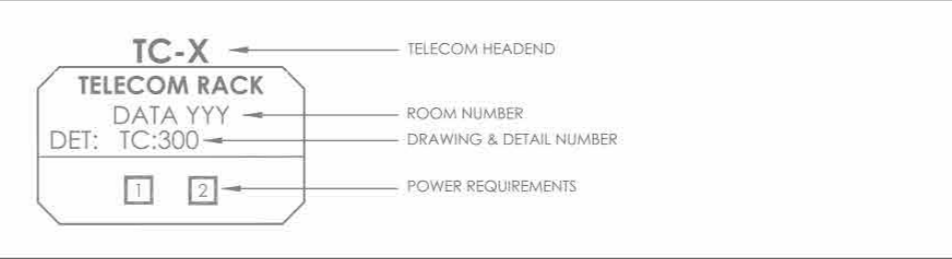
TELECOMMUNICATIONS SYMBOLS



POWER REQUIREMENTS

- POWER (EMERGENCY CIRCUIT)**
CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A EMERGENCY CIRCUIT DESIGNATED TO SECURITY IN EACH REBER LOCATION WITHIN A 4x4\"/>
- POWER (NON-EMERGENCY CIRCUIT)**
CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A NON-EMERGENCY CIRCUIT DESIGNATED TO SECURITY IN EACH REBER LOCATION WITHIN A 4x4\"/>

TELECOM TAG DETAIL



CABLE TYPE/IDENTIFICATION SCHEDULE

| ID | MANUFACTURER | PART # | DESCRIPTION |
|----|--------------|--------|---|
| 3 | REVAE | 68N6 | 23AWG 40P CAT6 NON-SHIELDED, PLENUM, BLUE JACKETS |

PATHWAY NOTES

- COORDINATE INSTALLATION OF CONDUITS AND CABLE TRAYS WITH OTHER COMPONENTS INSTALLED WITHIN CEILING. PREPARE SHOP DRAWINGS TO DEMONSTRATE AND ENSURE PROPER INSTALLATION OF ALL COMPONENTS.
- MAINTAIN MINIMUM BEND RADIUS OF 10X O.D. FOR CONDUITS GREATER THAN 2\"/>
- PROVIDE PULL BOXES (SIZE AS NOTED) AFTER EVERY 100' OF RUN OR AFTER EVERY 180 DEGREES OF BEND.
- DO NOT INSTALL PULL BOXES IN LIEU OF A BEND. REAM AND BUSH THE ENDS OF ALL CONDUITS. PROVIDE AND LEAVE IN PLACE A PULL STRING IN EACH CONDUIT.
- PROVIDE HANGERS, ANCHORS, MOUNTING HARDWARE, GROUND LUGS AND STRAPS AS REQUIRED TO ENSURE PROPER INSTALLATION OF PATHWAY COMPONENTS. INSTALL ALL COMPONENTS AS PER MANUFACTURERS RECOMMENDATIONS AND PER ALL APPLICABLE CODES.
- GROUND ALL CONDUITS AND LADDER RACK AS PER MANUFACTURERS RECOMMENDATIONS AND PER ALL APPLICABLE CODES.
- PROVIDE FURNISH AND INSTALL ALL LADDER RACK, CABLE TRAY LOCATIONS AND CONDUIT SLEEVE LOCATIONS: RUNWAY DROPOFFS, SPLICE HARDWARE, GROUND STRAPS, THERMAL EXPANSION PLATES, TERMINATION KITS, END SUPPORT LUGS AND CEILING SUPPORT HARDWARE.
- REFER TO DISTRIBUTION PLANS FOR REQUIREMENTS FOR JUNCTION BOX AND CONDUITS TO SUPPORT WORKSTATION OUTLETS.
- WHERE CABLE IS RUN ABOVE NON-ACCESSIBLE (I.E. GYPSUM BOARD) CEILING CONSTRUCTION, INSTALL CONDUIT AND PULLBOXES TO PROPERLY ROUTE CABLE.
- PROVIDE J-HOOKS AND CABLE STRAPS TO SUPPORT CABLE ABOVE ACCESSIBLE CEILING CONSTRUCTION. EXCEPT IN AREAS WHERE CABLE TRAY OR CONDUIT IS INDICATED.
- PROVIDE CONDUIT SLEEVES IN PARTITION WALLS FOR CABLEING WHERE NO SLEEVES EXIST. CONDUIT CABLE CAPACITY SHALL NOT EXCEED 40%.

CALCULATION BASED UPON 40% FILL @ 0.28 INCH CABLE O.D.

CONDUIT FILL SCHEDULE

| CONDUIT SIZE | MAX. NO. OF CAT 6 CABLES ALLOWED | | |
|--------------|----------------------------------|-----------|-----------|
| | 0 - BENDS | 1 - BENDS | 2 - BENDS |
| 3" | 6 | 5 | 4 |
| 1 1/4" | 10 | 8 | 7 |
| 1 1/2" | 13 | 11 | 9 |
| 2" | 22 | 19 | 15 |
| 2 1/2" | 38 | 32 | 27 |
| 3" | 57 | 49 | 40 |
| 3 1/2" | 75 | 64 | 52 |
| 4" | 96 | 82 | 67 |

CONDUIT NOTE

NOTE:
REFER TO ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS.

PATCH CORD SCHEDULE

PROVIDE (1) 3' FOOT, (1) 7' FOOT AND (1) 18' FOOT CAT 6 PATCH CORD FOR EACH CAT-6 CABLE INSTALLED UNDER THIS CONTRACT.
PROVIDE (8) 3M FIBER PATCH COORDS PER DESIGNATED TELECOM ROOM

NOTE TO THE ELECTRICAL CONTRACTOR (EC):
THIS DRAWING BINDER ADDRESSES ITEMS THAT ARE REFERENCED IN DIVISION 26 DRAWINGS AND SPECIFICATIONS. PLEASE REFER TO BOTH DIVISION 26 AND DIVISIONS 27/28 FOR FULL SCOPE AND RESPONSIBILITIES.

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HARRISON RECREATION CENTER-KDG
270 HARRISON AVE
HARRISON, NY 10528

TELECOMMUNICATION COVER SHEET AND DEVICE LEGEND

DESIGNED BY: JD
DRAWN BY: AO
CHECKED BY: IT

DATE: 12/08/2023
SCALE: N.T.S.
DRAWING NO.: TC-000

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| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

TELECOMMUNICATION COVER SHEET AND DEVICE LEGEND

Job No. 2020-1005 Date 06/05/24
Scale AS NOTED Drawn / Checked JD / AO

Sheet Number TC000

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

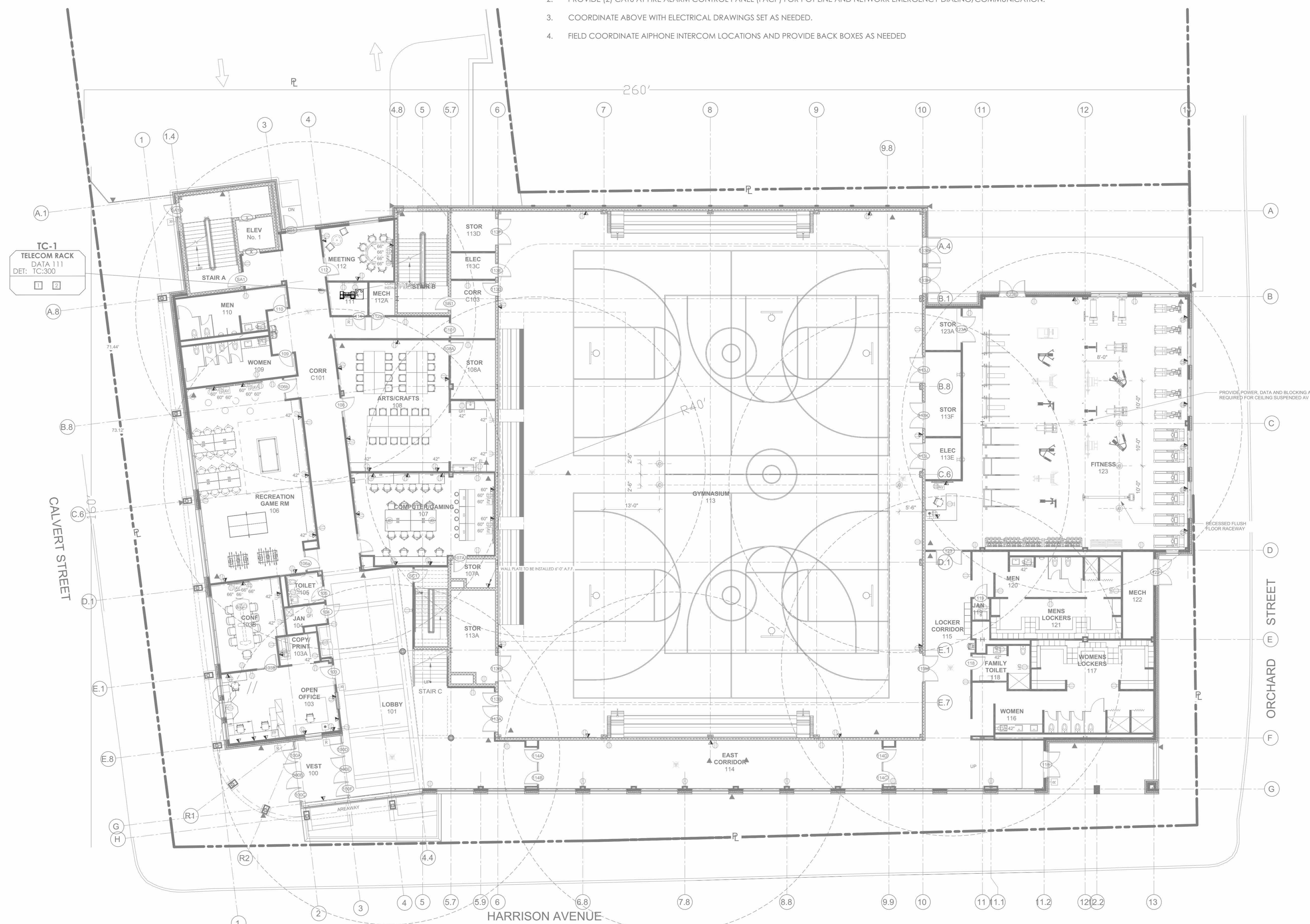


CONSTRUCTION DOCUMENTS

NOTE:
THE BIDDING LOW VOLTAGE
CONTRACTOR (LVC) IS
RESPONSIBLE TO FURNISH,
INSTALL, PROGRAM AND
COMMISSION ALL SECURITY
AND TELEDATA DEVICES TO
PROVIDE THE OWNER WITH A
COMPLETE TURN-KEY SOLUTION

NOTES:

1. PROVIDE (2) CAT6 IN ELEVATOR MACHINE ROOM FOR POT LINE EMERGENCY DIALING.
2. PROVIDE (2) CAT6 AT FIRE ALARM CONTROL PANEL (FACP) FOR POT LINE AND NETWORK EMERGENCY DIALING/COMMUNICATION.
3. COORDINATE ABOVE WITH ELECTRICAL DRAWINGS SET AS NEEDED.
4. FIELD COORDINATE AIPHONE INTERCOM LOCATIONS AND PROVIDE BACK BOXES AS NEEDED



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270 HARRISON AVE
HARRISON, NY 10528

**TELECOMMUNICATION
1ST FLOOR
DEVICE PLAN**

| | | |
|----------------|-------------|------------|
| DESIGNED BY | AO | IT |
| WORK ORDER NO. | DATE | CHECKED BY |
| | 12/08/2023 | |
| S.A. NO. | SCALE | |
| | 1/8"=1'-0" | |
| | DRAWING NO. | |
| | TC-101 | |

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**TELECOMMUNICATION
1ST FLOOR
DEVICE PLAN**

| | | | |
|---------|-----------|-----------------|------------------|
| Job No. | 2020-1005 | Date | 06/05/24 |
| Scale | AS NOTED | Drawn / Checked | Author / Checker |

Sheet Number
TC101

**HARRISON
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COMMUNITY
CENTER**

New Construction - Phase 2

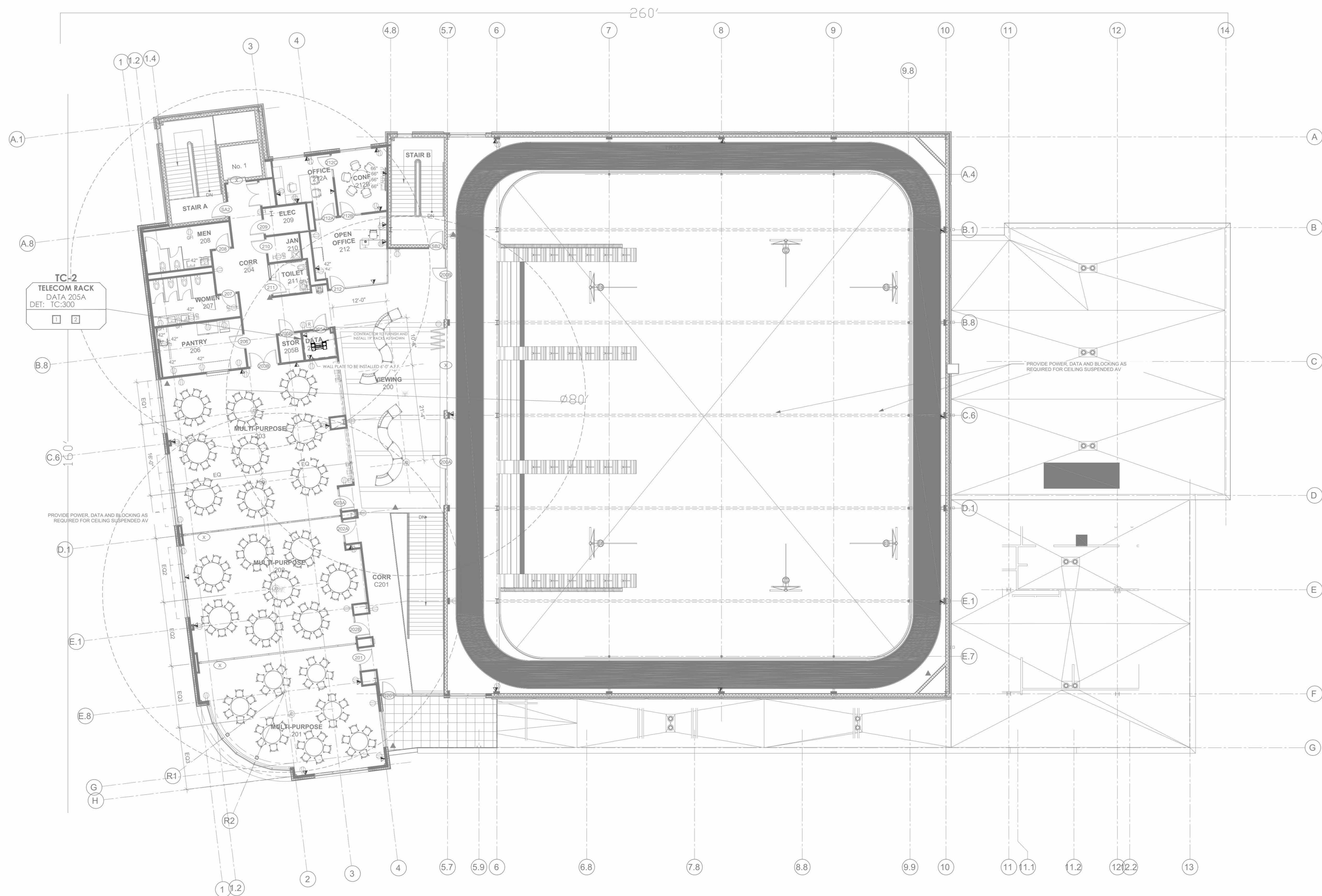
Town / Village of Harrison

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CONSTRUCTION DOCUMENTS

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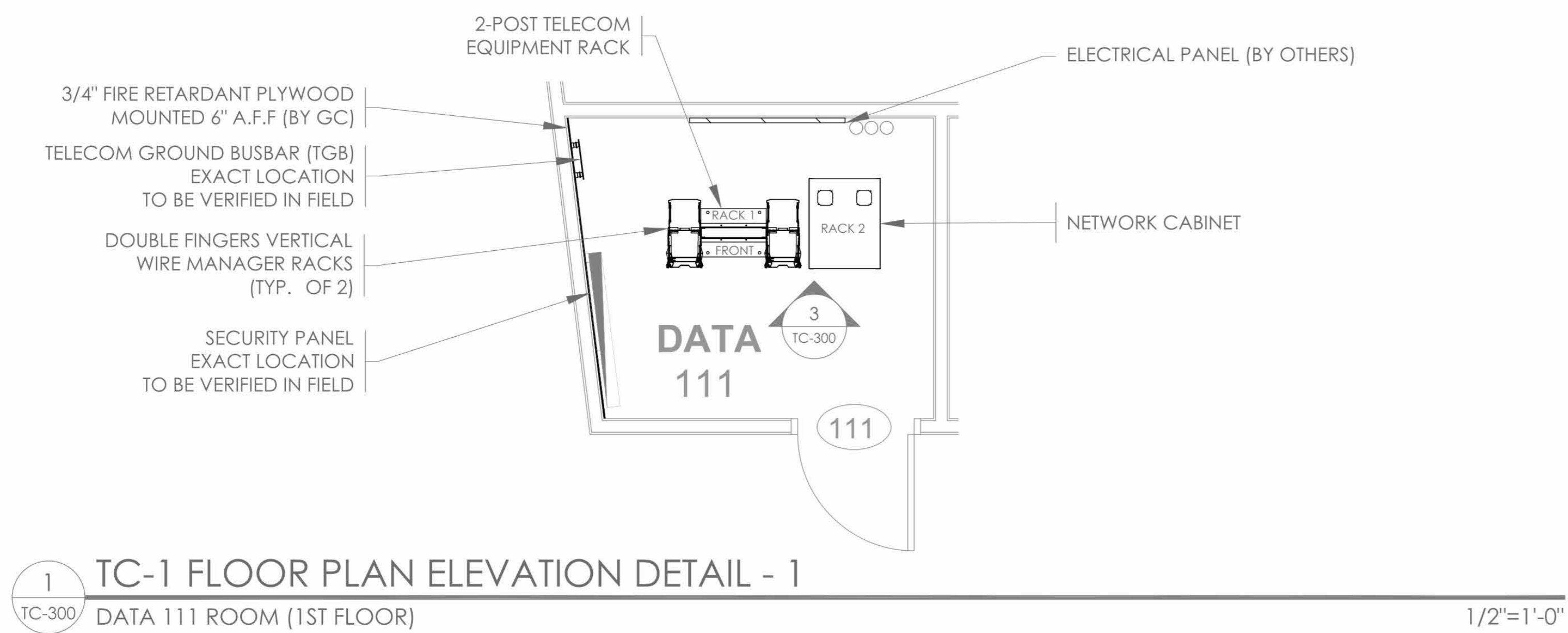
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| | 01/16/2024 | ISSUED FOR PERMIT |
| | 06/01/2020 | DESIGN DEVELOPMENT |
| | 03/31/2020 | 50% DESIGN DEVELOPMENT |

| DESIGNED BY: | DRAWN BY: | CHECKED BY: |
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| JD | AO | IT |
| WORK ORDER NO: | DATE: | SCALE: |
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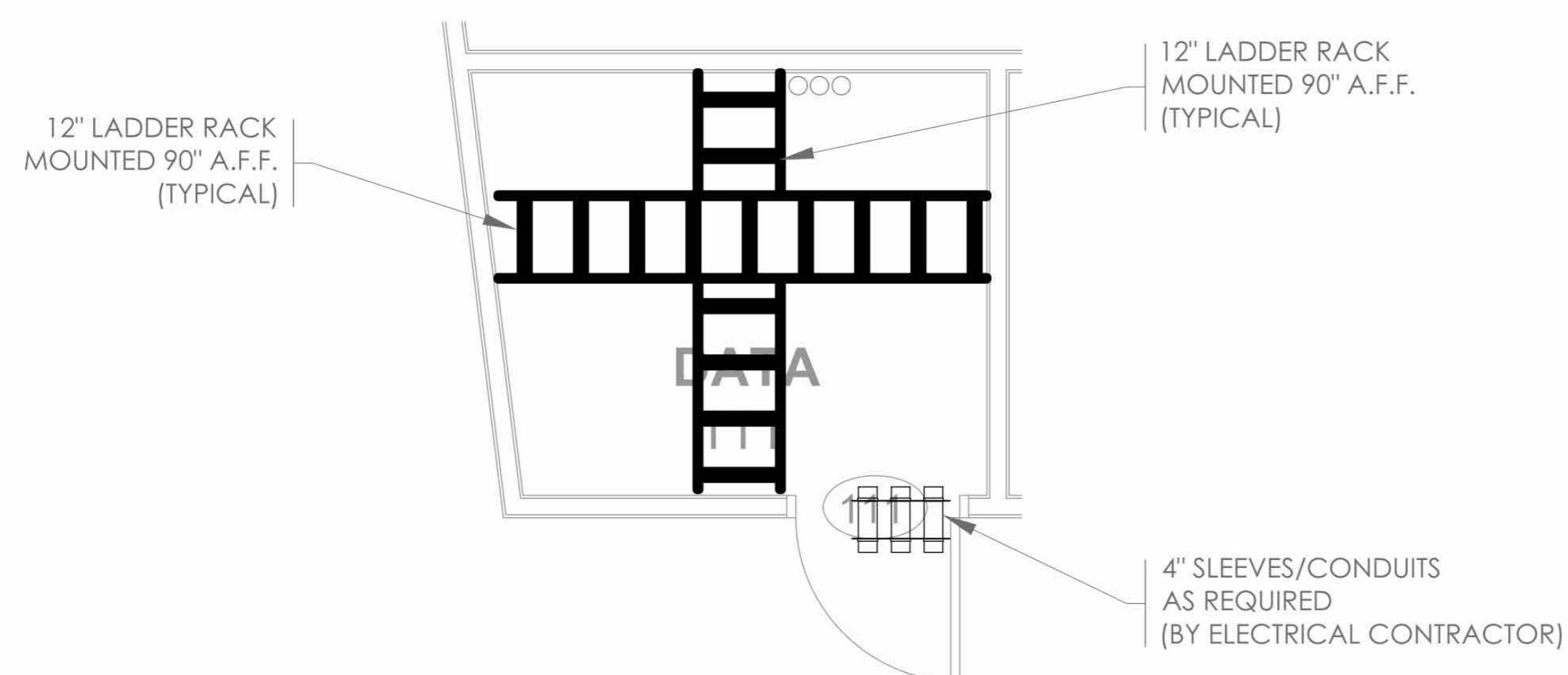
**TELECOMMUNICATION
2ND FLOOR
DEVICE PLAN**

| Job No. | Date |
|-----------|------------------|
| 2020-1005 | 06/05/24 |
| Scale | Drawn / Checked |
| AS NOTED | Author / Checker |

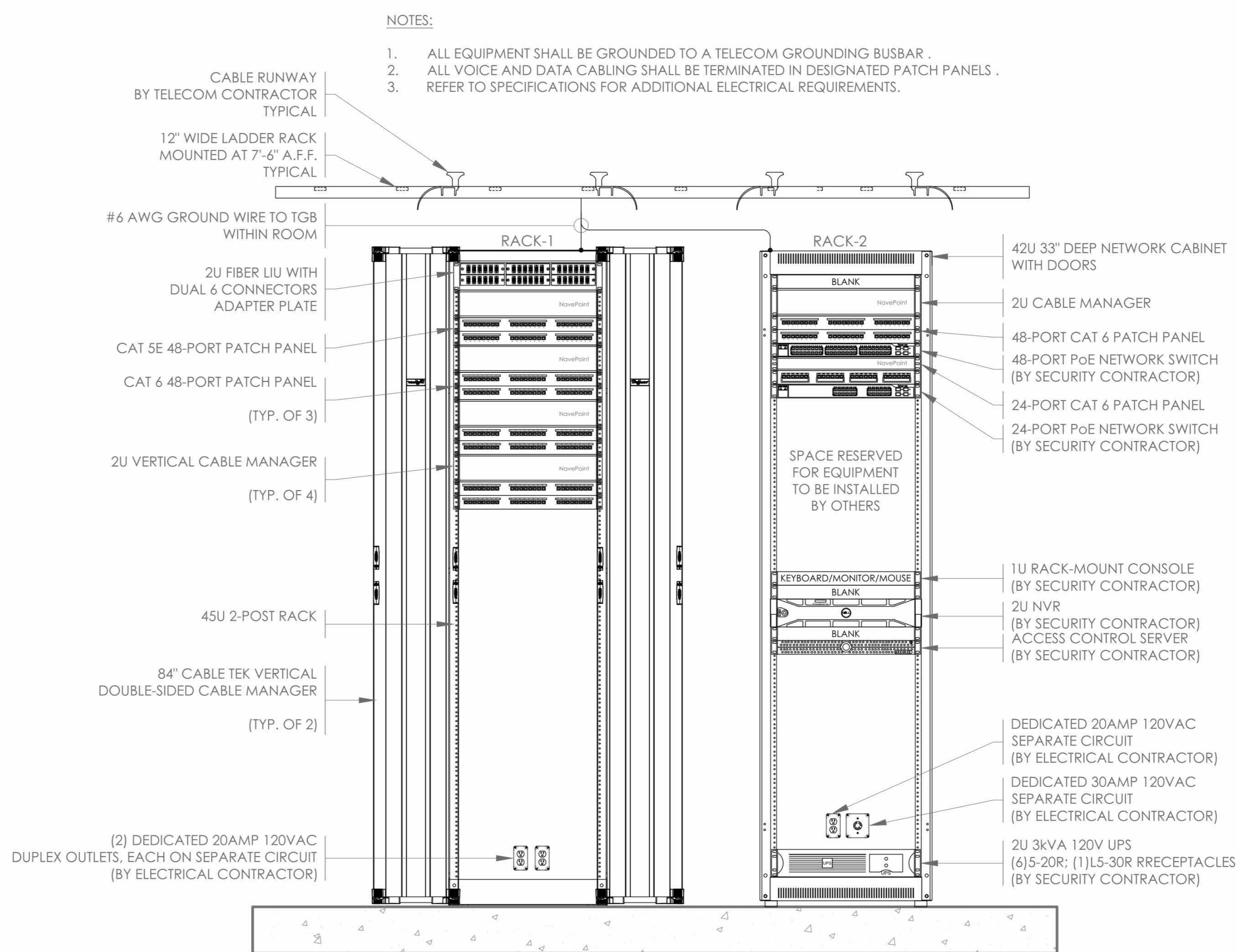
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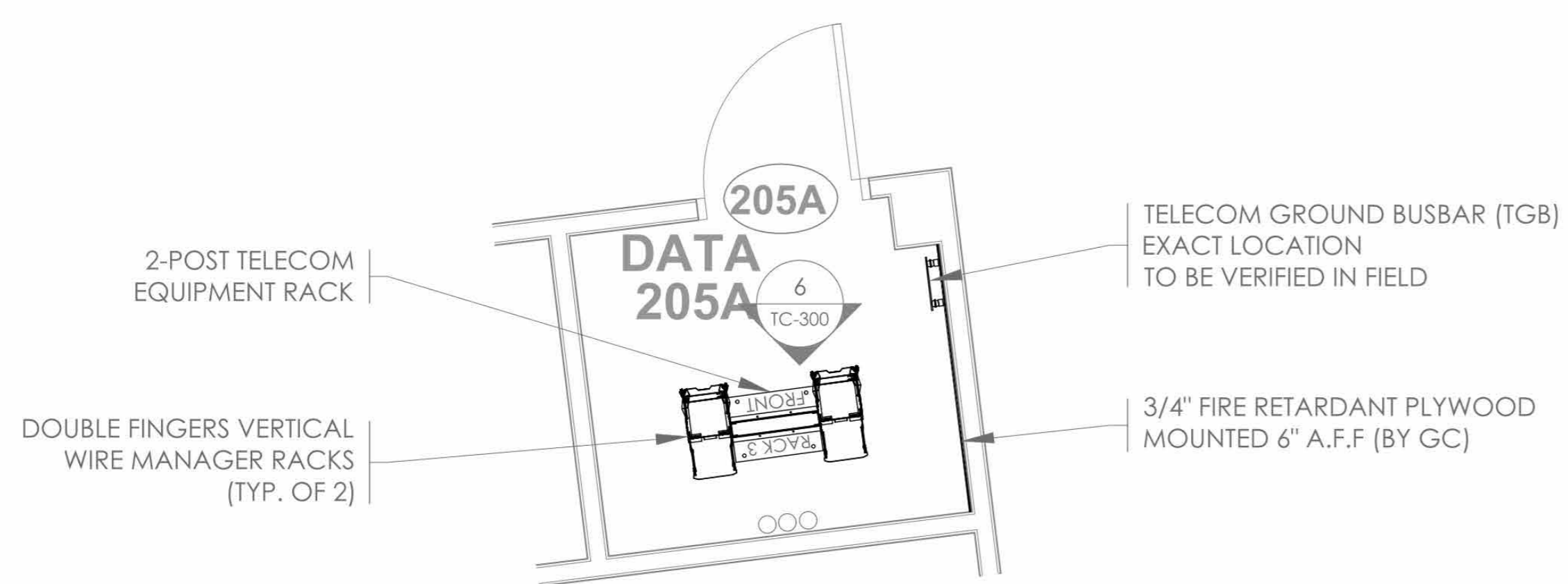
1 TC-1 FLOOR PLAN ELEVATION DETAIL - 1
DATA 111 ROOM (1ST FLOOR) 1/2"=1'-0"



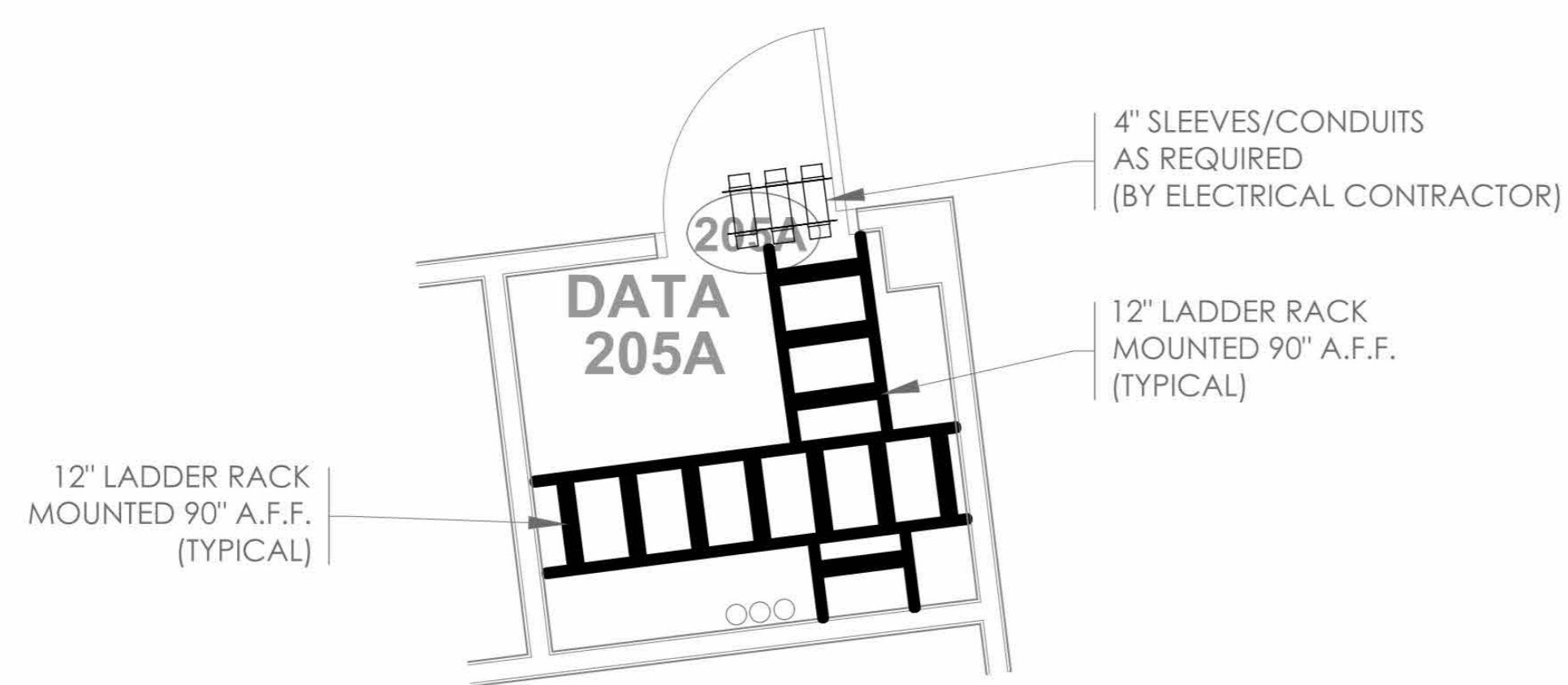
2 TC-1 FLOOR PLAN ELEVATION DETAIL - 2
DATA 111 ROOM (1ST FLOOR) 1/2"=1'-0"



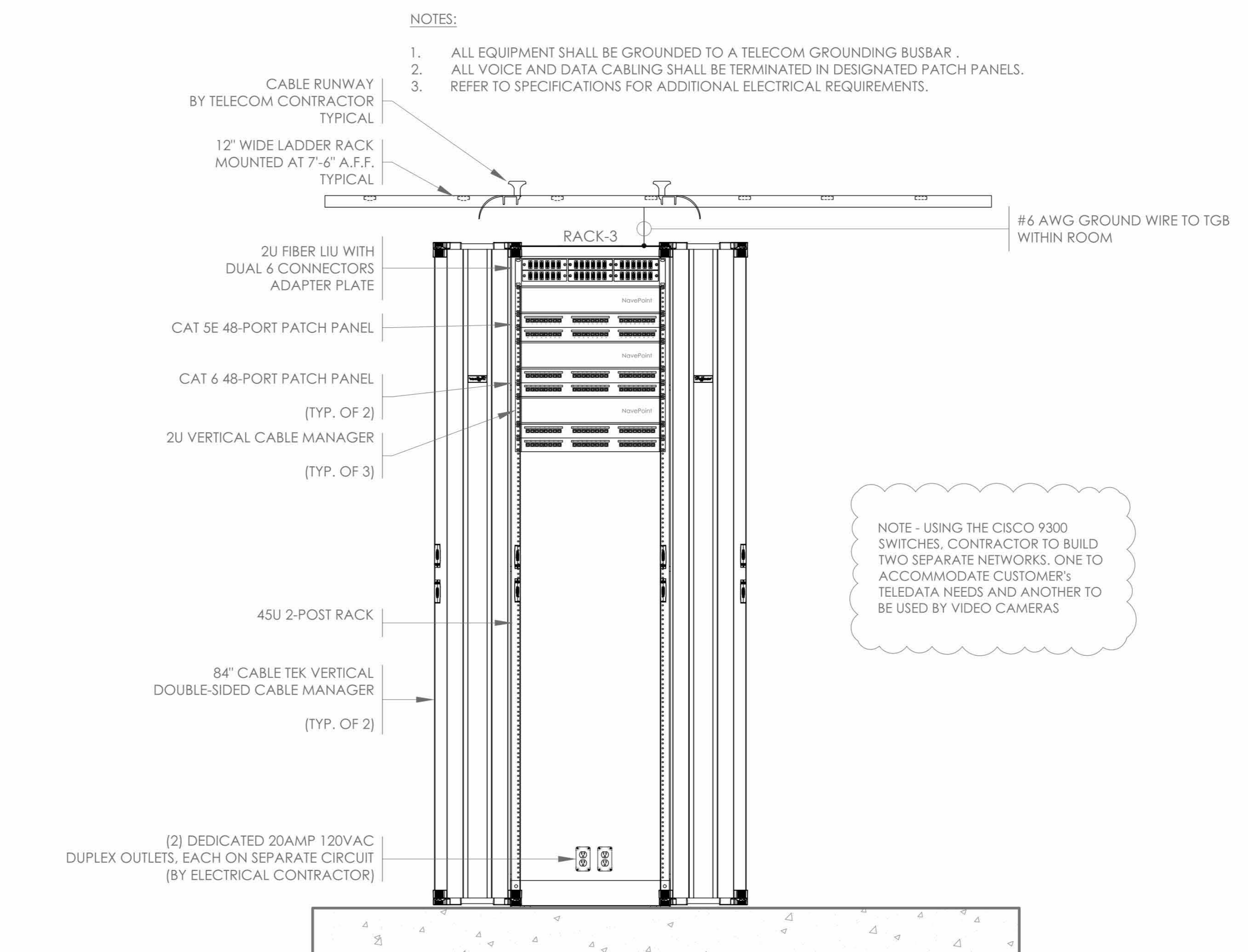
3 TC-1 TELECOM RACK DETAIL
DATA 111 ROOM (1ST FLOOR) 1-1/2"=1'-0"



4 TC-2 FLOOR PLAN ELEVATION DETAIL - 1
DATA 205A ROOM (2ND FLOOR) 1/2"=1'-0"



5 TC-2 FLOOR PLAN ELEVATION DETAIL - 2
DATA 205A ROOM (2ND FLOOR) 1/2"=1'-0"



6 TC-2 TELECOM RACK DETAIL
DATA 205A ROOM (2ND FLOOR) 1-1/2"=1'-0"

NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION

- NOTES:
1. ALL EQUIPMENT SHALL BE GROUNDED TO A TELECOM GROUNDING BUSBAR.
 2. ALL VOICE AND DATA CABLING SHALL BE TERMINATED IN DESIGNATED PATCH PANELS.
 3. REFER TO SPECIFICATIONS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.

NOTE - USING THE CISCO 9300 SWITCHES, CONTRACTOR TO BUILD TWO SEPARATE NETWORKS. ONE TO ACCOMMODATE CUSTOMER'S TELEDATA NEEDS AND ANOTHER TO BE USED BY VIDEO CAMERAS

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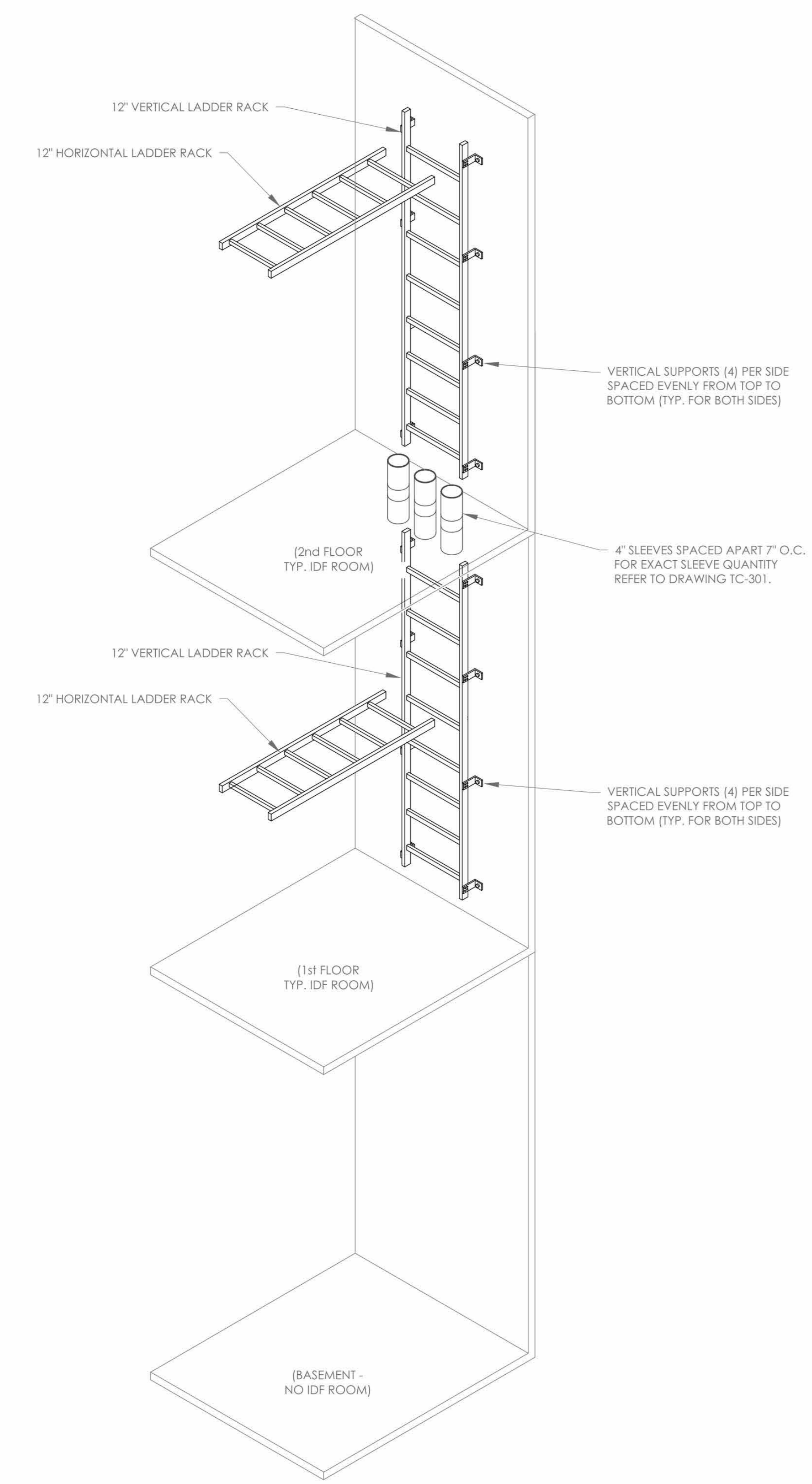
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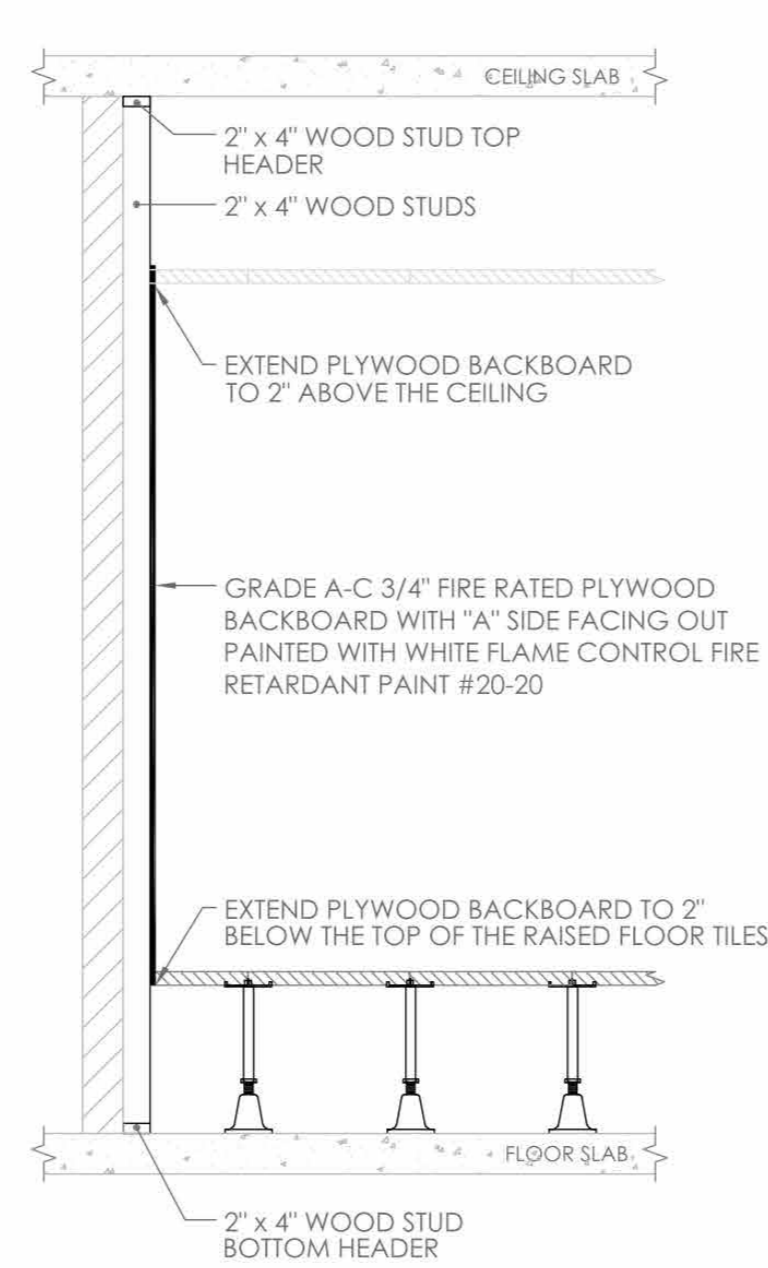
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| WORK ORDER NO. | DATE: 12/08/2023 | CHECKED BY: |
| SCALE: | N.T.S. | |
| DRAWING NO.: | TC-300 | |

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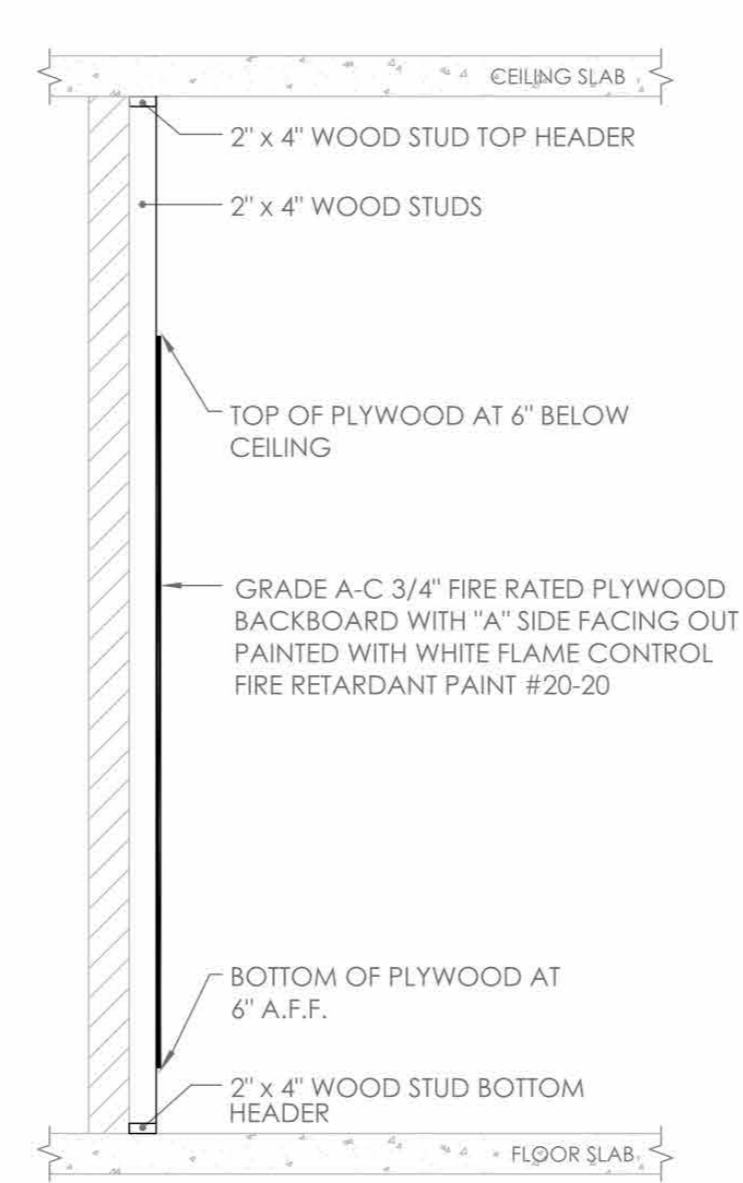
IDF LADDER RACK AND SLEEVE DETAIL

NOT TO SCALE



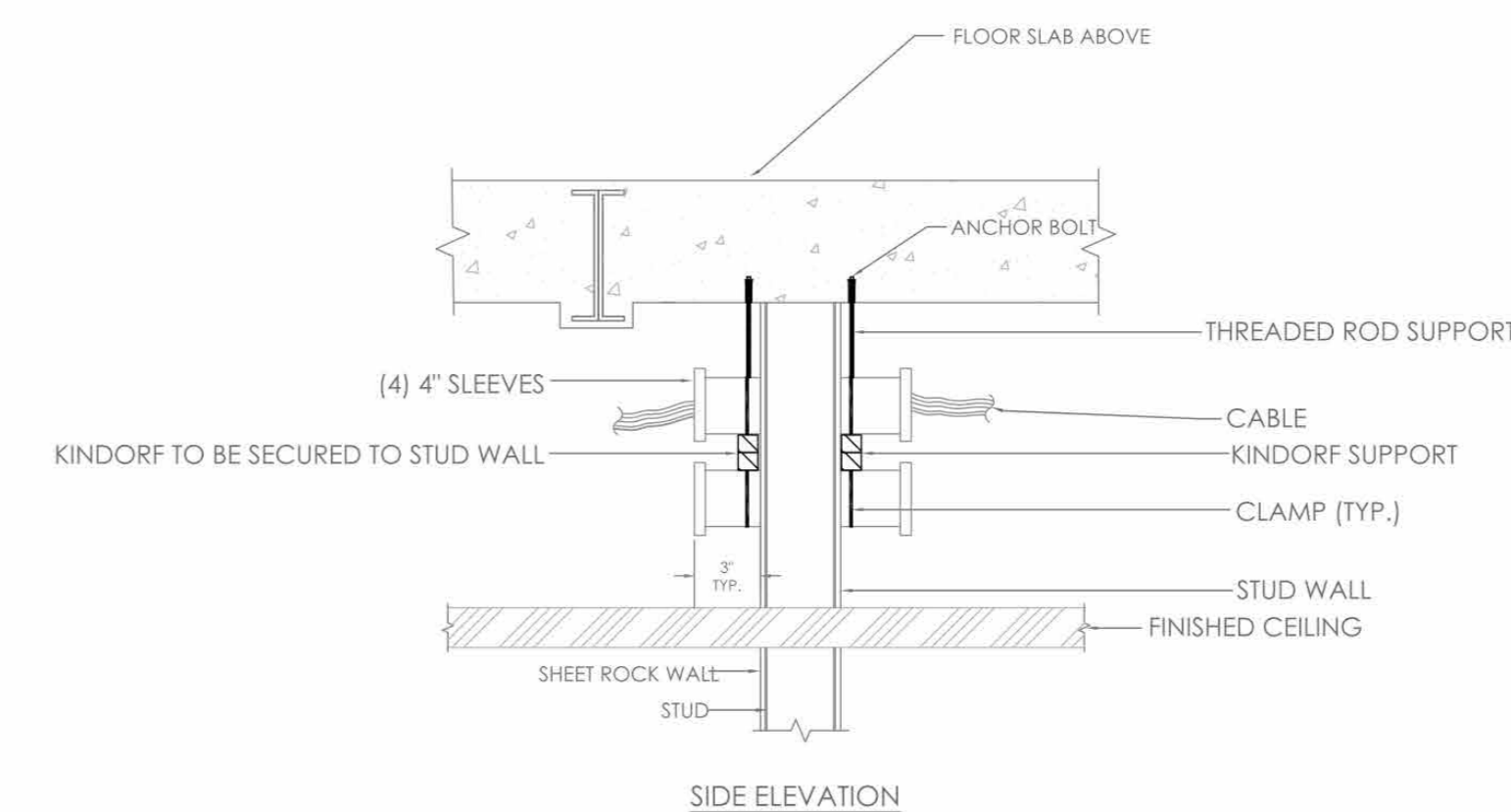
TYPICAL WALLFIELD CONSTRUCTION
(FOR ROOMS WITH RAISED FLOOR)

NOT TO SCALE

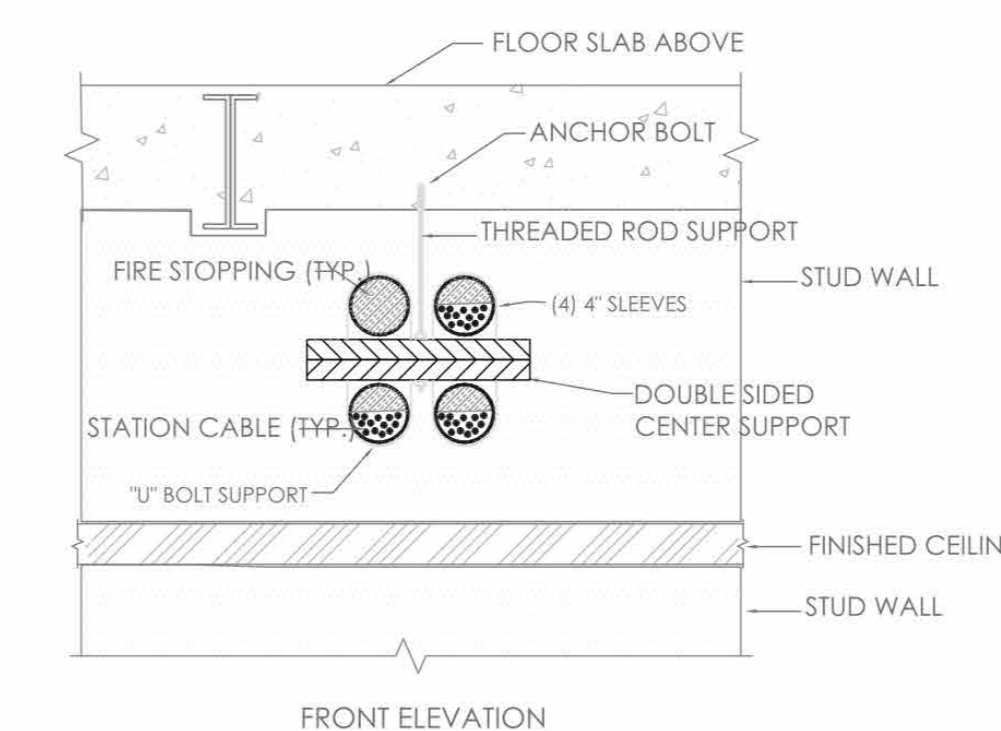


TYPICAL WALLFIELD CONSTRUCTION
(FOR ROOMS WITHOUT RAISED FLOOR)

NOT TO SCALE

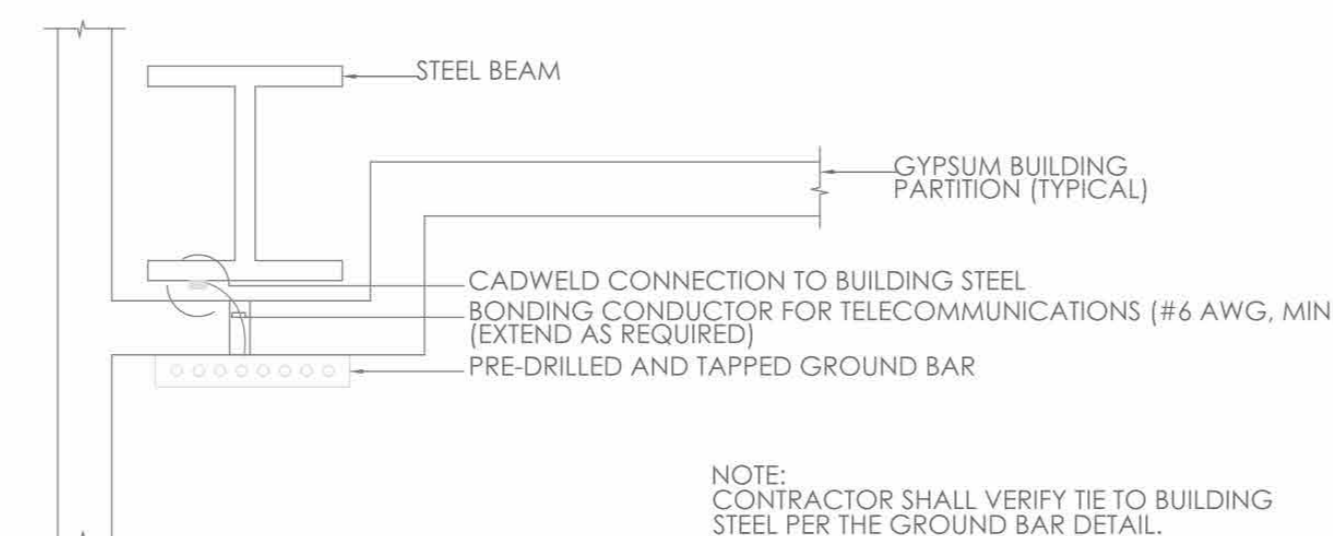


SIDE ELEVATION



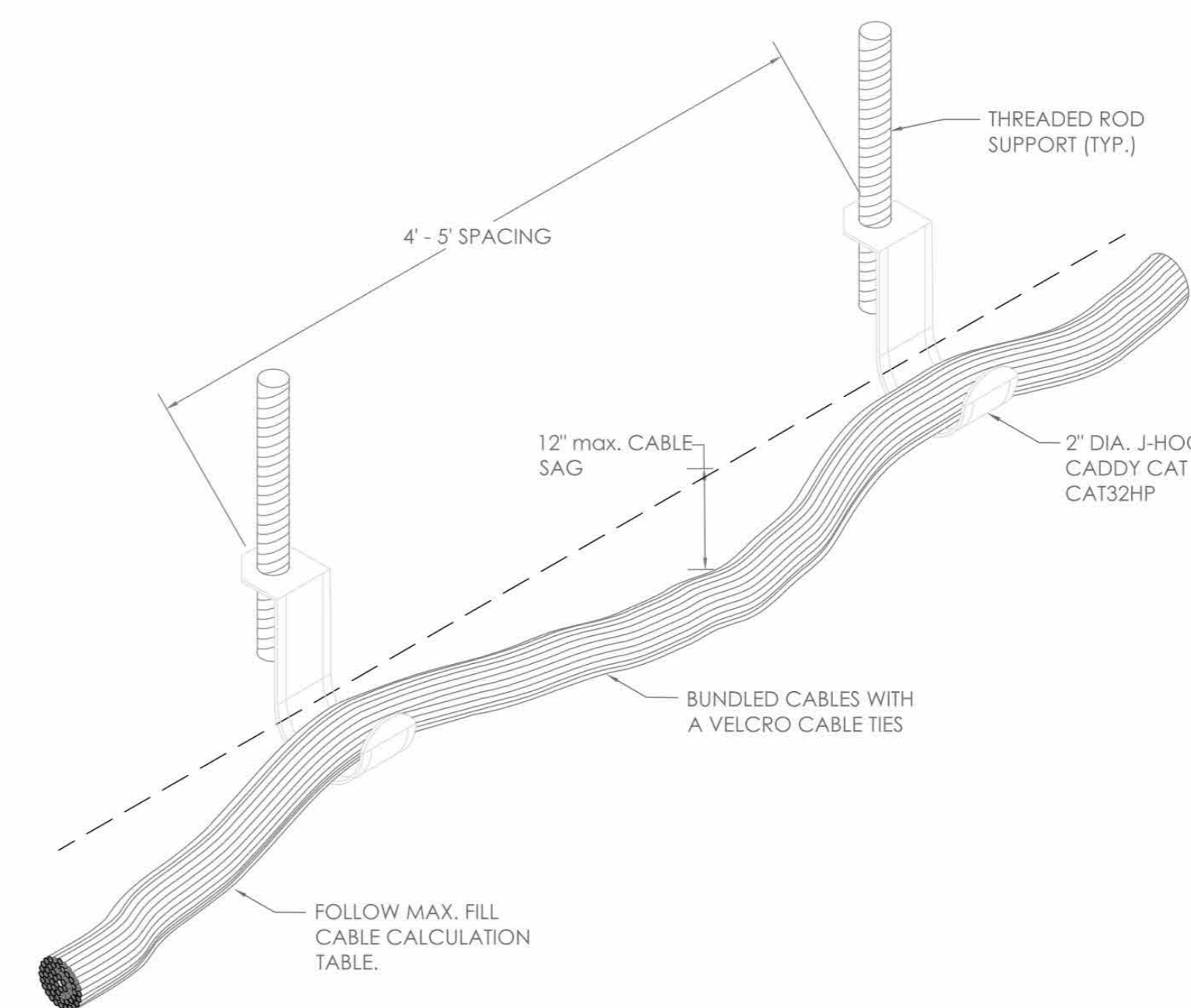
FRONT ELEVATION

FRAMED OPENING DETAIL
SCALE: NONE



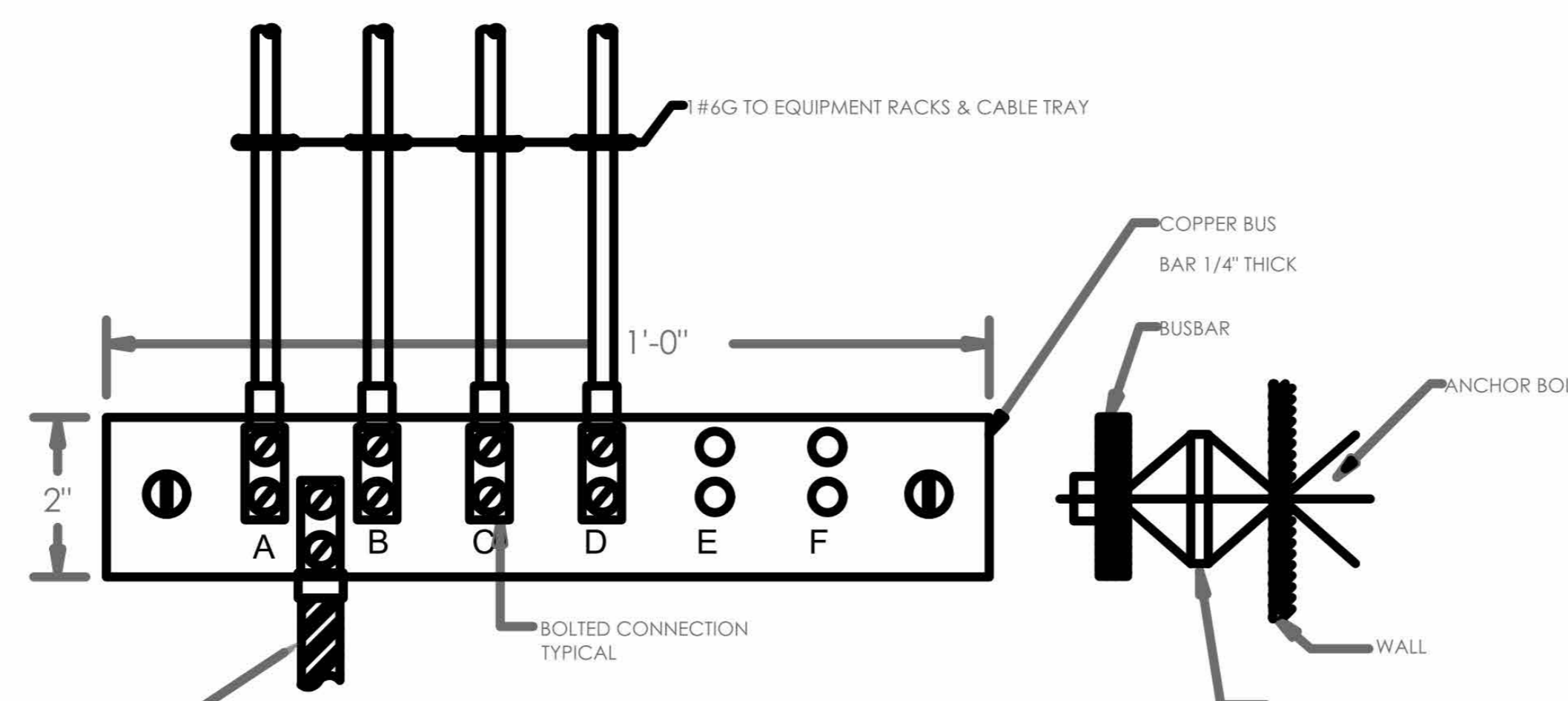
TYPICAL GROUND BAR MOUNTING DETAIL

NOT TO SCALE



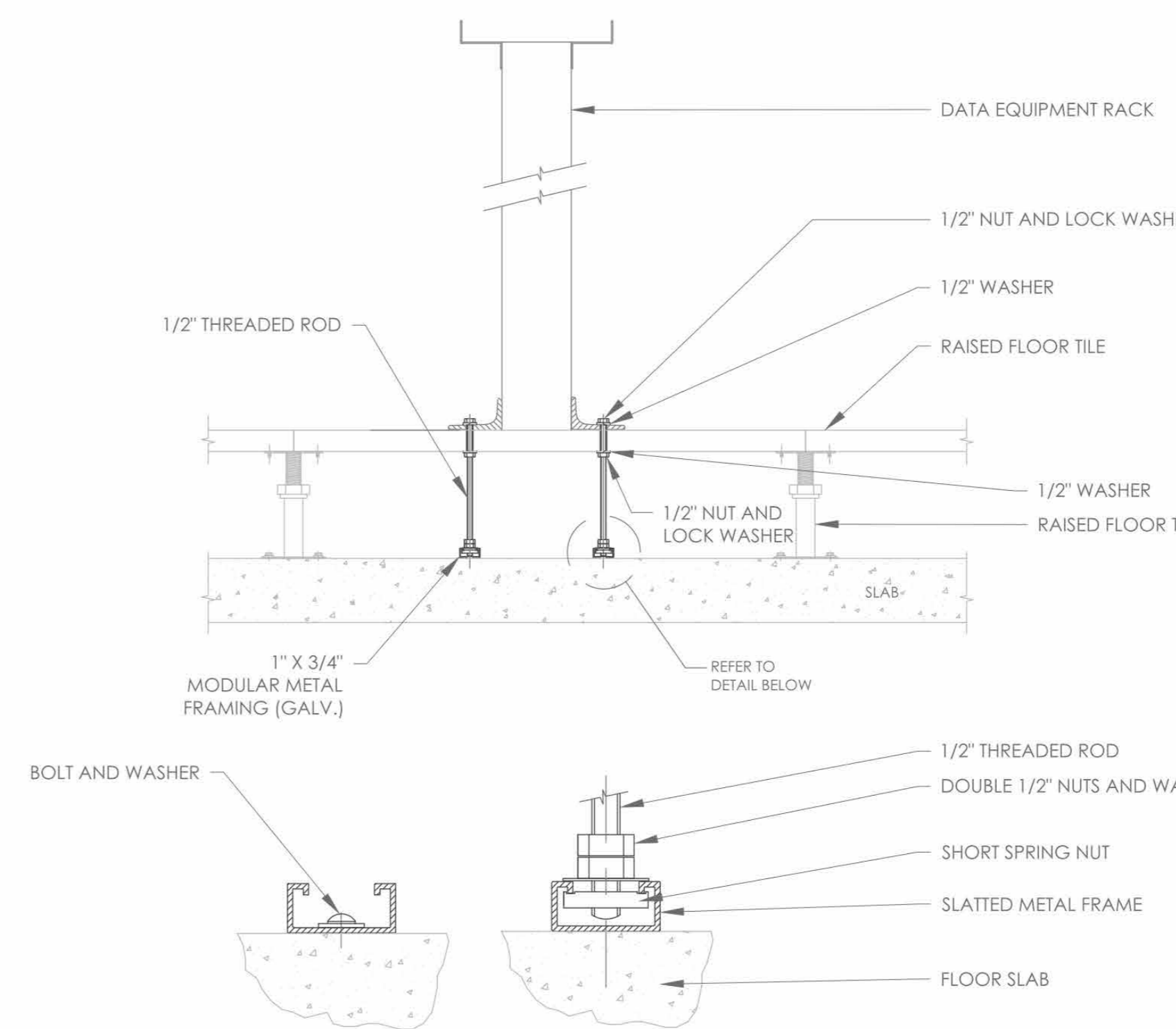
CABLE HANGER SUPPORT DETAIL

NOT TO SCALE



TYPICAL IT ROOM GROUND BAR MOUNTING DETAIL

NOT TO SCALE



EQUIPMENT RACK ON RAISED FLOOR MOUNTING DETAIL

NOT TO SCALE

ISSUED FOR:

DATE COMMENTS

06/05/24 ISSUED FOR BID

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ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:

HARRISON
RECREATION CENTER-KDG

270 HARRISON AVE
HARRISON, NY 10528

TITLE:

TELECOMMUNICATION
TYPICAL DETAILS -1

DESIGNED BY: JD

DRAWN BY: AO

CHECKED BY: IT

DATE: 12/08/2023

SCALE: N.T.S.

DRAWING NO: TC-700

JOB NO: 2020-1005

DATE: 06/05/24

SCALE: AS NOTED

DRAWN / CHECKED:
Author / Checker

SHEET NUMBER

TELECOMMUNICATION
TYPICAL DETAILS-1

TC700

HARRISON RECREATION CENTER

270 HARRSON AVE
HARRISON, NY 10528

SECURITY BID SET

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS

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- NOTES:
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 - THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWING SET AND RELATED DIVISIONS 27, 28 SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DEVELOP A TURN KEY SOLUTION TO OWNER.
 - CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
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NOTE: THE BIDDING LOW VOLTAGE CONTRACTOR (LVCT) IS RESPONSIBLE FOR TESTING, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELECOM DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION.

SECURITY DRAWING LIST

SE-000 COVER SHEET / LEGEND & INDEX

FLOOR PLANS

SE-100 LOWER LEVEL SECURITY DEVICE PLAN
SE-101 1ST FLOOR SECURITY DEVICE PLAN
SE-102 2ND FLOOR SECURITY DEVICE PLAN

CLOSET DETAILS

SE-300 INTRUSION & ACCESS CONTROL CLOSET ELEVATION IDF-1
SE-301 CCTV CLOSET ELEVATION IDF-1

CLOSET DETAILS

SE-500 SECURITY EQUIPMENT DETAIL - DOOR TYPICALS-1
SE-501 SECURITY EQUIPMENT DETAIL - DOOR TYPICALS-2

TYPICALS

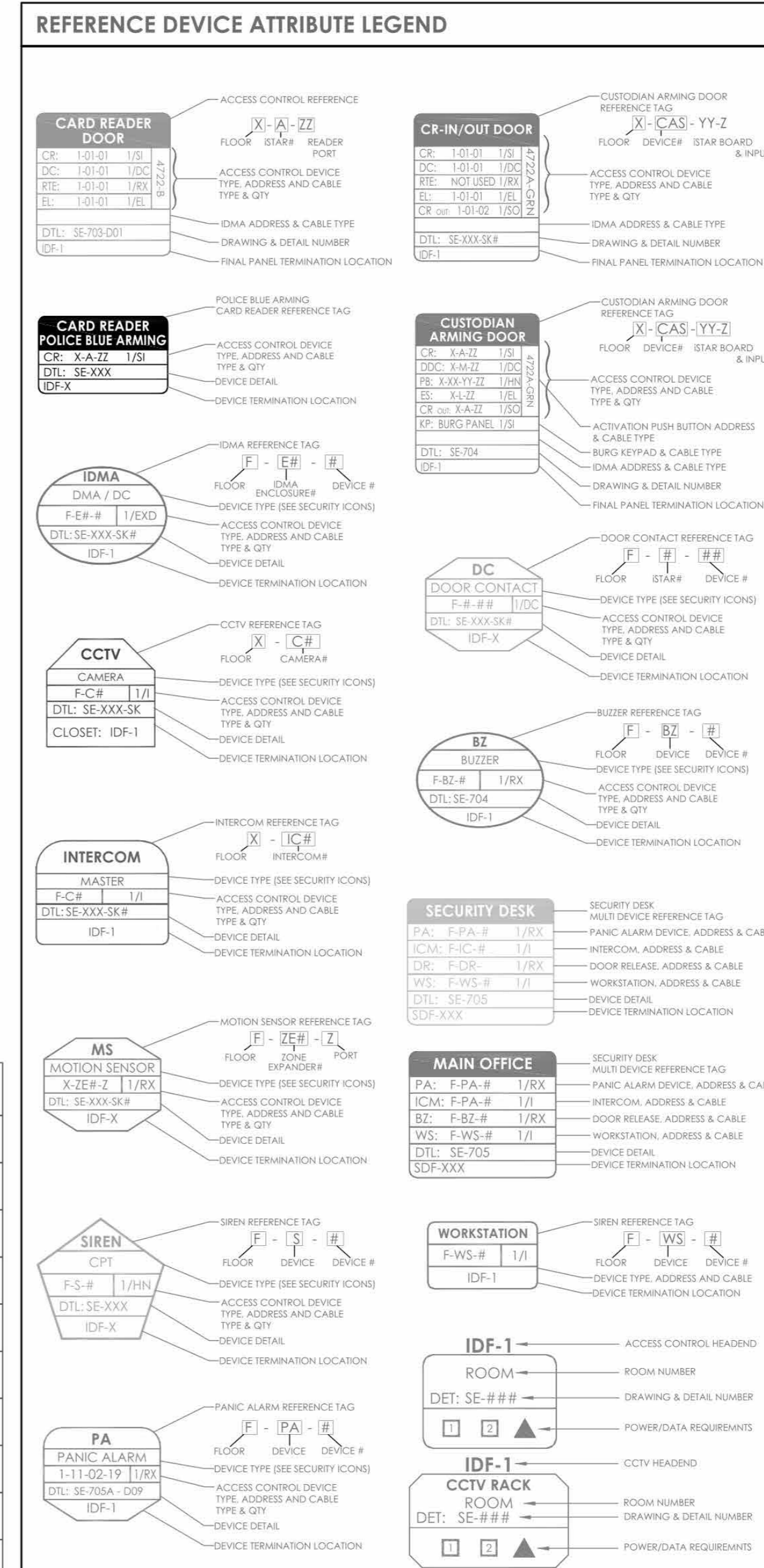
SE-701 BURGLAR & ACCESS CONTROL OVERALL SYSTEMS INTERFACE ONE LINE DIAGRAM
SE-704 SECURITY EQUIPMENT DETAIL 2- (ACCESS DEVICE TYPICALS)
SE-705 SECURITY EQUIPMENT DETAIL 3- (IDMA DEVICE TYPICALS)
SE-705A SECURITY EQUIPMENT DETAIL 4- (BURG DEVICE TYPICALS)
SE-706 SECURITY EQUIPMENT DETAIL 5- (CCTV TYPICALS)

NOTE TO THE ELECTRICAL CONTRACTOR (EC): THIS DRAWING BINDER ADDRESSES ITEMS THAT ARE REFERENCED IN DIVISION 26 DRAWINGS AND SPECIFICATIONS. PLEASE REFER TO BOTH DIVISION 26 AND DIVISIONS 27/28 FOR FULL SCOPE AND RESPONSIBILITIES.

| GENERAL NOTES | |
|---------------|--|
| 1. | DRAWINGS AND DIVISION 28 DEFINITIONS. YOU ARE THE SECURITY ELECTRICAL CONTRACTOR. |
| 2. | GENERAL NOTES SHALL APPLY TO ALL DRAWINGS IN THE SE AND TC BINDER SETS. |
| 3. | WORK TO COMPLY WITH ALL APPLICABLE LOCAL, CODES, REGULATORY AGENCIES, INCLUDING, BUT NOT LIMITED TO, NEC, OSHA, AND OTHERS. |
| 4. | THE SEC SHALL BE RESPONSIBLE FOR SCHEDULING WITH BUILDING MANAGEMENT THE USE OF ELEVATOR OR OTHER HOISTING FACILITIES FOR HANDLING THE DELIVERY OF MATERIALS. |
| 5. | FIRE STOPPING OF ALL PENETRATIONS SHALL BE PROVIDED BY THE INSTALLING SEC AS REQUIRED BY CODE. |
| 6. | THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. AND FINAL SYSTEM CONDUITS AND CONDUCTOR LAYOUTS SHALL BE PROVIDED BY THE SEC IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED EQUIPMENT, CONDUIT, AND WIRING SHOP DRAWINGS, AND FIELD CONDITIONS. |
| 7. | THE SEC MUST COORDINATE WITH THE EC ALL DEVICE INSTALLATION DETAILS AND ENSURE THAT DEVICE BACKBOXES ARE APPROPRIATE FOR THE FINAL APPROVED SHOP DRAWING, ON A LOCATION BY LOCATION BASIS, AND MEET ARCHITECTURAL REQUIREMENTS. SURFACE MOUNTING (LINES) APPROVED IF THERE IS NO OTHER PATHWAY OPTION. NO SURFACE MOUNTING IS APPROVED ON ANY DRYWALL. |
| 8. | PROVIDE APPROPRIATE METALLIC RACEWAY FOR THE SECURITY SYSTEM AS NEEDED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND TO AS NOT TO EXCEED 48" CONDUIT FILL WHEN USING SURFACE MOUNTED WIREMOLD. BACK BOX DEPTH SHOULD NOT EXCEED THE ABSOLUTE MINIMUM DEPTH REQUIRED FOR THE DEVICE. FOR EXAMPLE, CARD READER IS 1 1/2" DEPT. |
| 9. | UNLESS OTHERWISE NOTED, THE SEC SHALL PROVIDE ALL 120/208VAC AS REQUIRED FOR THE SECURITY SYSTEM. FINAL 120VAC TERMINATIONS IN THE SECURITY EQUIPMENT SHALL BE PERFORMED BY THE SEC AS WELL. |
| 10. | THE SEC SHALL PROVIDE AND INSTALL ALL INTERCONNECTING CONDUITS AND RACEWAYS INSIDE THE SECURITY EQUIPMENT AND TERMINATE ALL WIRES AS SHOWN IN THIS DRAWING SET. |
| 11. | UNLESS OTHERWISE NOTED, THE SEC SHALL PROVIDE AND INSTALL ALL CABLE PASS-THROUGH HOLES IN MULLHORE. |
| 12. | THE SEC SHALL PROVIDE AND INSTALL ALL OVERHEAD CABLE SUPPORTED BY HANGERS, JOCKS, CABLE TRAYS, OR EQUIVALENT. CABLE SHALL NOT BE SUPPORTED BY CEILING GRID, DUCTWORK, SPRINKLER PIPES, ELECTRICAL CONDUIT OR GAS PIPES. |
| 13. | THE SEC TO PROVIDE GROUNDING OF ALL ELECTRONIC EQUIPMENT. AT MINIMUM, ON THE PLYWOOD BACKSHEARD, USE GROUND BAR. COORDINATE WITH GENERAL CONTRACTOR AND EC FOR NEAREST GROUNDING LOCATION. |
| 14. | THE SEC SHALL WIRE ALL DOORS FOR ELECTRIFIED DOOR HARDWARE THAT WILL BE PROVIDED BY OTHERS. THIS INCLUDES ELECTRIC LOCKS, DOOR FRAMES FOR ELECTRIC STRIKES, HOLES FOR DOOR CONTACTS, AUTOMATIC DOOR OPERATORS, ETC. |
| 15. | THESE DRAWINGS INDICATE THE GENERAL INTENT OF WORK AND ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL THE WORK REQUIRED BY THE SEC FOR THE FULL PERFORMANCE AND COMPLETION OF THE CONTRACT. |
| 16. | ALL CONDUIT SHALL BE DELIVERED, CLEANED, CAPPED, TAGGED, AND PROVIDED WITH FULL WIRES AND BUSHINGS, WHERE CONDUITS OR WIREWAYS PASS THROUGH FIRE RATED ASSEMBLIES, THE PENETRATIONS SHALL BE FIRE STOPPED. |
| 17. | PRIOR TO SYSTEM TURN ON, THE INSTALLING SECURITY CONTRACTOR SHALL REVIEW THE INSTALLATION & PROBE FOR INTERFERING. |
| 18. | AT THE TIME OF ACCESS CONTROL SYSTEM TURN ON, THE SEC SHALL PROVIDE THE SAME PERSONNEL WHO PERFORMED & SUPERVISED THE WORK TO TROUBLESHOOT. TEST THE INSTALLATION AND REMEASUREMENT ALL RELATED PUNCH LIST ITEMS FOR FINAL COMMISSIONING. |
| 19. | CLIENTS FIRE ALARM CONTRACTOR SHALL PROVIDE A SET OF NORMALLY CLOSED (N/C) CONTACTS TO RELEASE ON GENERAL ALARM AND BE CONNECTED BY SEC. |
| 20. | THE SEC IS RESPONSIBLE FOR PROVIDING A COMPLETE AND ACCURATE SET OF AS-BUILT DRAWINGS. |
| 21. | ALL WIRES TO BE MACHINE LABELED VIA SELF LAMINATING UL77 TAGS OR SIMILAR. PROVIDE FOR OWNER'S REF REVIEW PRIOR TO USE. |
| 22. | SECURITY SCREWS TO BE USED ON ALL DEVICES TO MAINTAIN SYSTEMS INTEGRITY. |
| 23. | POWER AND PATHWAYS BY BASE BUILDING ELECTRICAL CONTRACTOR. |

| POWER REQUIREMENTS | |
|--------------------|---|
| 1 | POWER (EMERGENCY CIRCUIT) CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISE LOCATION WITHIN A 4"x4" BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS. |
| 2 | POWER (NON EMERGENCY CIRCUIT) CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A NON-EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISE LOCATION WITHIN A 4"x4" BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS. |

| SECURITY DEVICES LEGEND | |
|-------------------------|--|
| CR | CARD READER |
| DC | DOOR CONTACT |
| XP | BURG PANEL KEY PAD |
| DO | ELECTRIFIED DOOR OPERATOR (PBO) |
| OH | OVERHEAD DOOR CONTACT |
| EL | ELECTRIC MORTISE LOCK |
| ML | ELECTROMAGNETIC LOCK |
| ES | ELECTRIC STRIKE LOCK |
| EOL | END OF LINE RESISTOR |
| REQ | REQUEST TO EXIT MOTION SENSOR |
| IMA | INTELLIGENT DOOR MANAGEMENT ALARM (IDMA) - "EXD" CABLE |
| CR | ELECTRIC LOCKING CRASH BAR |
| MD | MOTION SENSOR (LONG RANGE) - "RX" CABLE |
| MD | MOTION SENSOR (SHORT RANGE) - "RX" CABLE |
| BUZ | BUZZER |
| IMP | TEMPERATURE SENSOR |
| MON | VIDEO MONITOR |
| COM | INTERCOM |
| SIR | SIREN |
| CAS | CUSTODIAL ARMING STATION |
| FC | FIXED MINI DOME OUTDOOR VANDAL CAMERA |
| IC | FIXED MINI DOME INDOOR CAMERA |
| PTZ | PTZ DOME OUTDOOR CAMERA |
| PTZ | PTZ DOME INDOOR CAMERA |
| FB | FIXED BOX OUTDOOR CAMERA |
| IB | FIXED BOX INDOOR CAMERA |
| QC | QUAD CAMERA |



| CABLE TYPE/IDENTIFICATION SCHEDULE | | |
|------------------------------------|--------------|---|
| ID | MANUFACTURER | DESCRIPTION |
| (R) | | COMPONENT 1: CARD READER IN 1/8" (R-48) SHIELDED 22AWG STRANDED 2 COND (RED/WH) 22AWG STRANDED 2 COND (POWER) 20AWG STRANDED |
| (R) | | COMPONENT 2: CARD READER OUT 1/8" (R-48) SHIELDED 22AWG STRANDED 2 COND (RED/WH) 22AWG STRANDED 2 COND (POWER) 20AWG STRANDED |
| (R) | | COMPONENT 3: DOOR CONTACT 2 COND - 22AWG STRANDED |
| (R) | | COMPONENT 4: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 5: HORN/STROBE 2 COND - 22AWG STRANDED |
| (R) | | COMPONENT 6: REQUEST TO EXIT 4 COND - 2 COND - 22AWG CONTACTS STRANDED 2 COND - 22AWG (POWER) STRANDED |
| (R) | | COMPONENT 7: REQUEST TO EXIT 2 COND - 22AWG (POWER) STRANDED |
| (R) | | COMPONENT 8: HORN 2 COND - 22AWG STRANDED |
| (R) | | COMPONENT 9: HORN/STROBE 2 COND - 22AWG STRANDED |
| (R) | | COMPONENT 10: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 11: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 12: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 13: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 14: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 15: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 16: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 17: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 18: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 19: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 20: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 21: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 22: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 23: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 24: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 25: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 26: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 27: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 28: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 29: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 30: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 31: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 32: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 33: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 34: LOCK POWER 2 COND - 18AWG STRANDED |
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| (R) | | COMPONENT 99: LOCK POWER 2 COND - 18AWG STRANDED |
| (R) | | COMPONENT 100: LOCK POWER 2 COND - 18AWG STRANDED |

ISSUED FOR:

| DATE | ISSUED FOR BID | COMMENTS |
|------------|----------------|----------|
| 06/05/2024 | | |

ITG Larson, Inc.
155 Lafayette Ave
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HARRISON RECREATION CENTER-KDG
270 HARRISON AVE
HARRISON, NY 10528

COVER SHEET

EM AO IT

DESIGNED BY: DATE: 12/08/2023
WORK ORDER NO.: SCALE: N.T.S.
DRAWING NO.: SE-000

Job No. 2020-1005 Date 06/05/24
Scale AS NOTED Drawn / Checked Author Checker
Sheet Number SE000

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



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 RECREATION CENTER-KDG**
 270 HARRISON AVE
 HARRISON, NY 10528

SHEET:
**LOWER LEVEL
 SECURITY DEVICE PLAN**

DESIGNED BY: **EM** DRAWN BY: **AO** CHECKED BY: **IT**

WORK ORDER NO.: DATE: **12/08/2023**

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

S.A. NO.: DRAWING NO.: **SE-100**

| No. | Date | Issue |
|-----|------------|------------------------|
| 4 | 06/05/2024 | ISSUED FOR BID |
| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title
**LOWER LEVEL
 SECURITY DEVICE
 PLAN**

Job No. **2020-1005** Date **06/05/24**

Scale **AS NOTED** Drawn / Checked **Author / Checker**

Sheet Number

SE100



HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

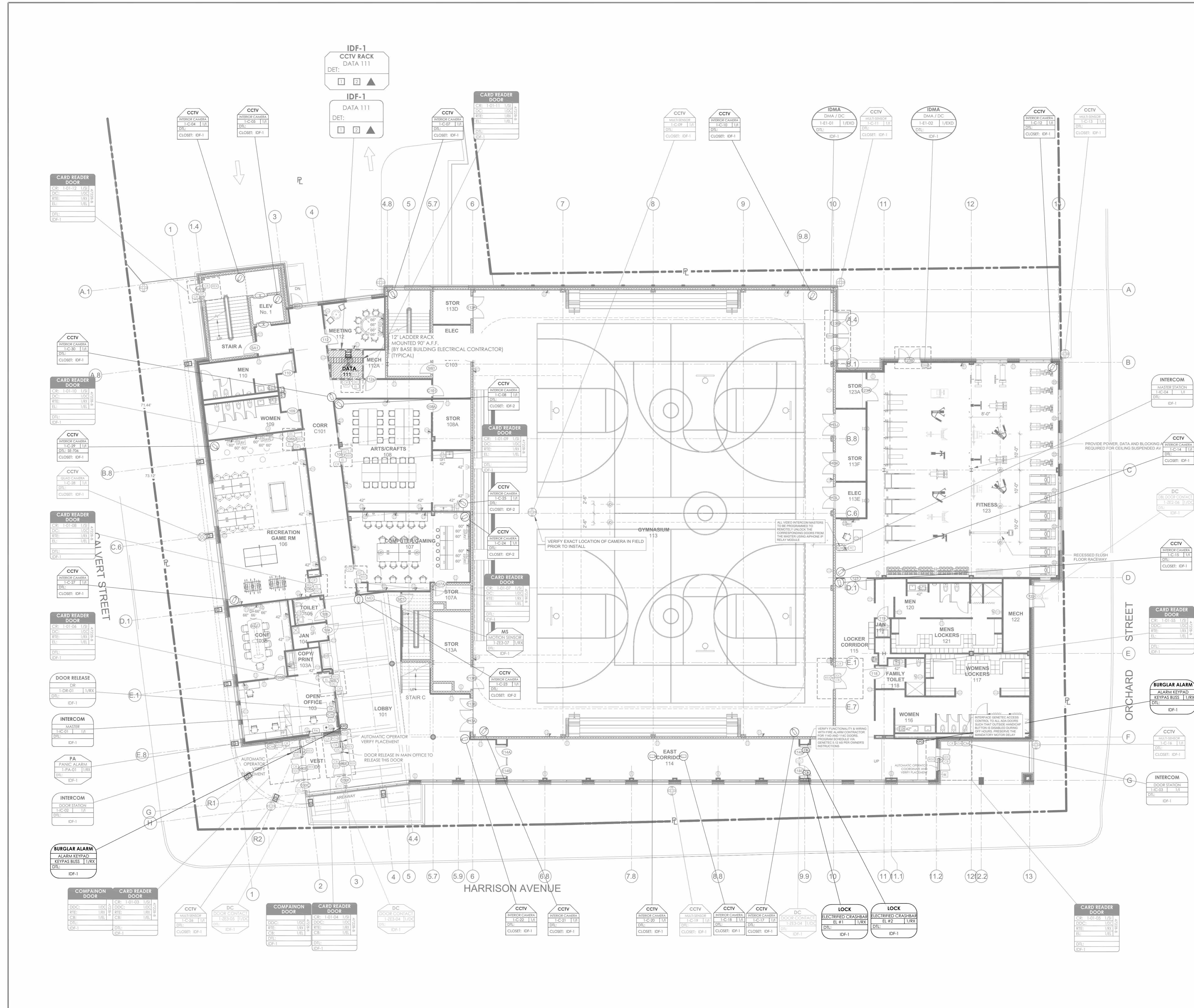
270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS

- NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE BIDDING DRAWINGS SET AND RELATED DIVISIONS 27, 28 SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO OWNER.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 4. PRIOR TO PULLING C.A.T.A. WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 5. ALL C.A.T.A. CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED REFER AND NOTE ON THE "AS BUILT" DRAWING TO PRODUCE AND SUBMIT A BOUND "AS BUILT" SET IN BOTH "E" SIZE HARD COPY (25%) AND DIGITAL FORMAT.
 7. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
 8. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE: THE BIDDING LOW VOLTAGE CONTRACTOR (LV) IS RESPONSIBLE TO REMAIN, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION.



ISSUED FOR:

| DATE | COMMENTS |
|------------|----------------|
| 06/05/2024 | ISSUED FOR BID |

HARRISON RECREATION CENTER-KDG
 270 HARRISON AVE
 HARRISON, NY 10528

1ST FLOOR SECURITY DEVICE PLAN

| EM | AO | IT |
|----------------|-------------|------------|
| DESIGNED BY | DRAWN BY | CHECKED BY |
| WORK ORDER NO. | DATE | 12/08/2023 |
| S.A. NO. | SCALE | 1/8"=1'-0" |
| | DRAWING NO. | SE-101 |

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| 4 | 06/05/2024 | ISSUED FOR BID |
| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

1ST FLOOR SECURITY DEVICE PLAN

Job No. 2020-1005 Date 06/05/24
 Scale AS NOTED Drawn / Checked Author Checker

Sheet Number **SE101**

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

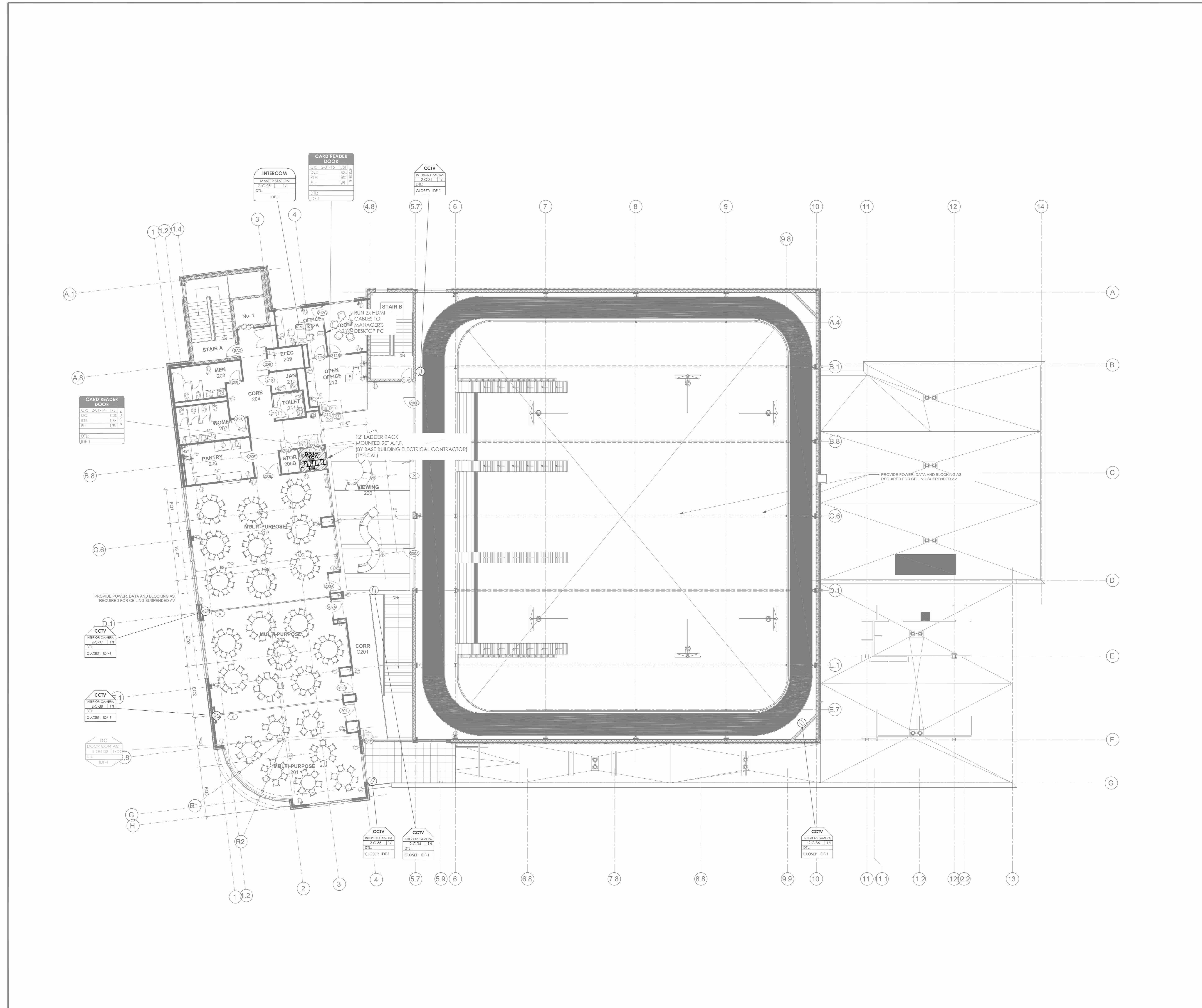


KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

- NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTES, DEVICE IDENTIFICATION AND OTHERS ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE DEVICE DRAWINGS SET AND RELATED DIVISIONS 27, 28 SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO OWNER.
 3. CONTRACTOR TO VERIFY CAMERA FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 4. PRIOR TO PULLING CAT 6A WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 5. ALL CAT 6A CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED Riser AND NOT ON THE "AS BUILT".
 7. CONTRACTOR TO PROVIDE AND DELIVER A SOUND "AS BUILT" SET IN BOTH "E" SIZE HARD COPY (E-SET) AND DIGITAL FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
 9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE: THE BIDDING LOW VOLTAGE CONTRACTOR (LVCC) IS RESPONSIBLE TO REMOVE, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION.



ISSUED FOR:

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| 06/05/2024 | ISSUED FOR BID |

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PROJECT:
**HARRISON
RECREATION CENTER-KDG**
270 HARRISON AVE
HARRISON, NY 10528

2ND FLOOR
SECURITY DEVICE PLAN

| DESIGNED BY | AO | IT |
|-----------------|------------|------------|
| EM | AO | IT |
| WORK DESIG. NO. | DATE | CHECKED BY |
| | 12/08/2023 | |
| SCALE | 1/8"=1'-0" | |
| S.A. NO. | SE-102 | |

DATE

COMMENTS

| DATE | COMMENTS |
|------|-----------------------------------|
| 4 | 06/05/2024 ISSUED FOR BID |
| 3 | 01/16/2024 ISSUED FOR PERMIT |
| 2 | 06/01/2020 DESIGN DEVELOPMENT |
| 1 | 03/31/2020 50% DESIGN DEVELOPMENT |

No. Date Issue

Sheet Title

**2ND FLOOR
SECURITY DEVICE
PLAN**

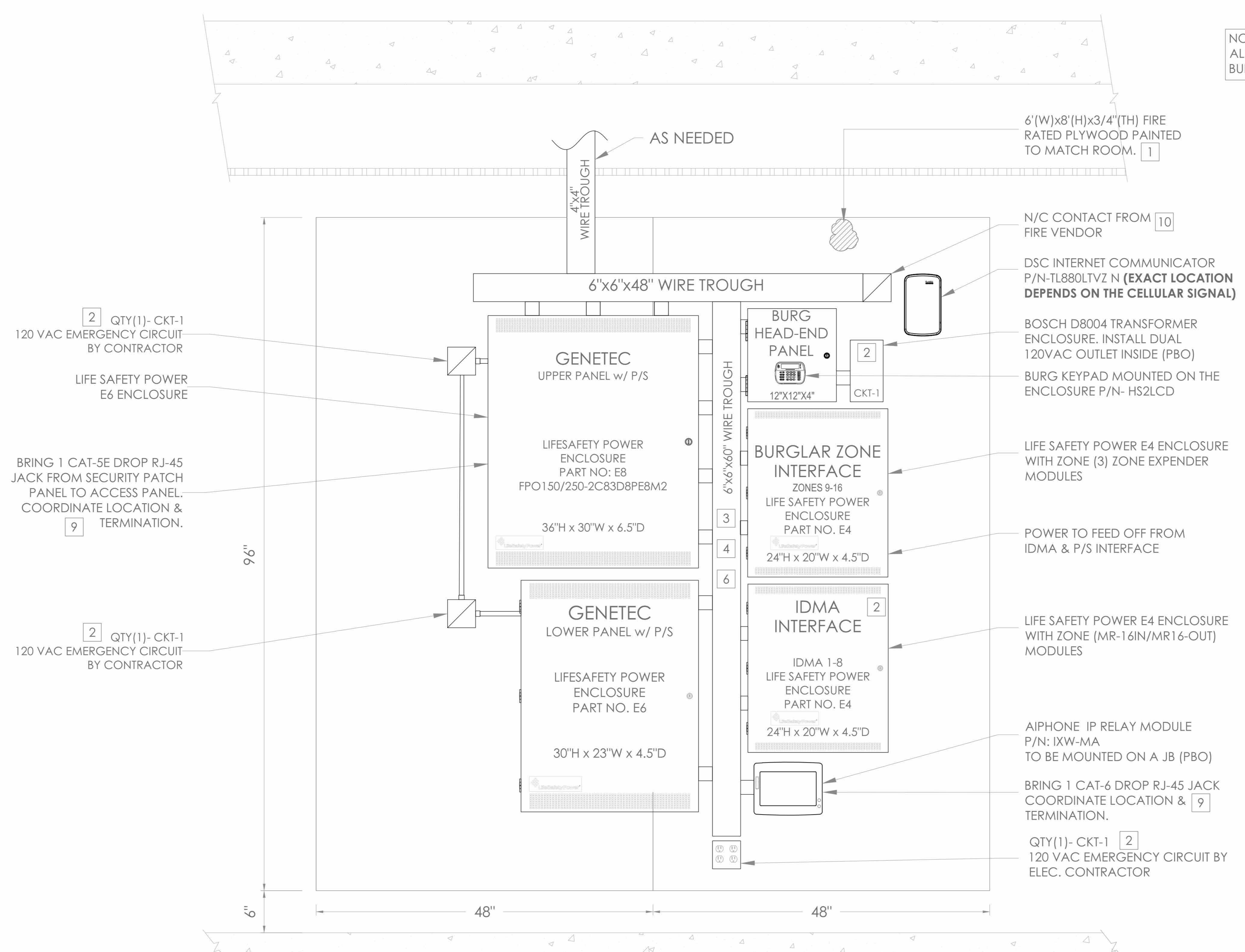
Job No. 2020-1005 Date 06/05/24

Scale AS NOTED Drawn / Checked Author Checker

Sheet Number

SE102

NOTE:
ALL INCOMING STREET UTILITIES FOR THE
BUILDING TO TERMINATE IN DATA 111 (IDF-1)



**INSTALLATION PROCEDURE
MERCURY 16 DOORS WITH LSP 12V/24V ACCESS CONTROL HEAD END**

- 1 LAYOUT EQUIPMENT TO BE MOUNTED AT DESIGNATED PLYWOOD (FIRE RATED AND PAINTED TO MATCH ROOM) BOARD IN SDF ROOM IN ACCORDANCE WITH THE PROVIDED ELEVATIONS HERE. STEPS KEYED ON THE DRAWINGS ARE NOTED BELOW.
- 2 COMPLETE INSTALLATION OF 120VAC/20A DEDICATED CIRCUIT AS SHOWN.
- 3
- 4
- 5 MOUNT [STAR ULTRA SE] ENCLOSURE 1" BELOW THE LOCK POWER SUPPLY. FURNISH AND INSTALL 2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM [STAR ULTRA SE] ENCLOSURE TO THE CENTER TROUGH AS SHOWN.
- 6 BRING CAT-5 CABLE AND/OR MOUNT AN RJ-45 JACK FOR PANEL DATA COMM, FROM NEAREST NETWORK SWITCH TO HERE. COORDINATE TERMINATION WITH TELECOM VENDOR OR CUSTOMER'S DATA CONSULTANT.
- 7 COORDINATE WITH MEP/ BLDG MANAGEMENT TO PROVIDE ONE SET OF NORMALLY CLOSED (N/C) DRY CONTACT FROM THE SITE'S FIRE ALARM SYSTEM, TO OPEN ON GENERAL ALARM ACTIVATION. (PROVIDED BY FIRE VENDOR).ELECTRIC LOCKS MUST BE FAIL SAFE FOR THIS FUNCTIONALITY.
- 8 ALL CONDUITS AND CONNECTIONS SHALL BE INSTALLED TO REQUIRED ENCLOSURES AS NEEDED PER DIAGRAM PROVIDED.
- 9 ALL CONNECTIONS BETWEEN PANELS & TROUGHS SHOULD BE CHASE NIPPLES & RIGID COUPLINGS.

- NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTE, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWING SET AND RELATED DRAWINGS BY JOB SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DEVELOP A TURN KEY SOLUTION TO OWNER.
 3. CONTRACTOR TO VERIFY CAMERA FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 4. PRIOR TO PULLING CAT-5 WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 5. ALL DATA CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISE AND HOSE ON THE 'AS BUILT'.
 7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND 'AS BUILT' SET IN BOTH 'E' SIZE HARD COPY (2 SETS) AND DIGITAL FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
 9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVCT) IS RESPONSIBLE TO FURNISH INITIAL PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN KEY SOLUTION.

| ISSUED FOR: | |
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| DATE | COMMENTS |
| 06/05/2024 | ISSUED FOR BID |
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ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603

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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title:
**INTRUSION & ACCESS
CONTROL CLOSET
ELEVATION
IDF-1**

| EM | AO | IT |
|----------------|----------|------------|
| DESIGNED BY | DRAWN BY | CHECKED BY |
| WORK ORDER NO: | DATE | 12/08/2023 |
| SCALE: | N.T.S. | |
| P.A. NO: | SE-300 | |

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Professional Seal

| Job No. | Date |
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| 2020-1005 | 06/05/24 |

Scale: AS NOTED
Drawn / Checked: Author / Checker

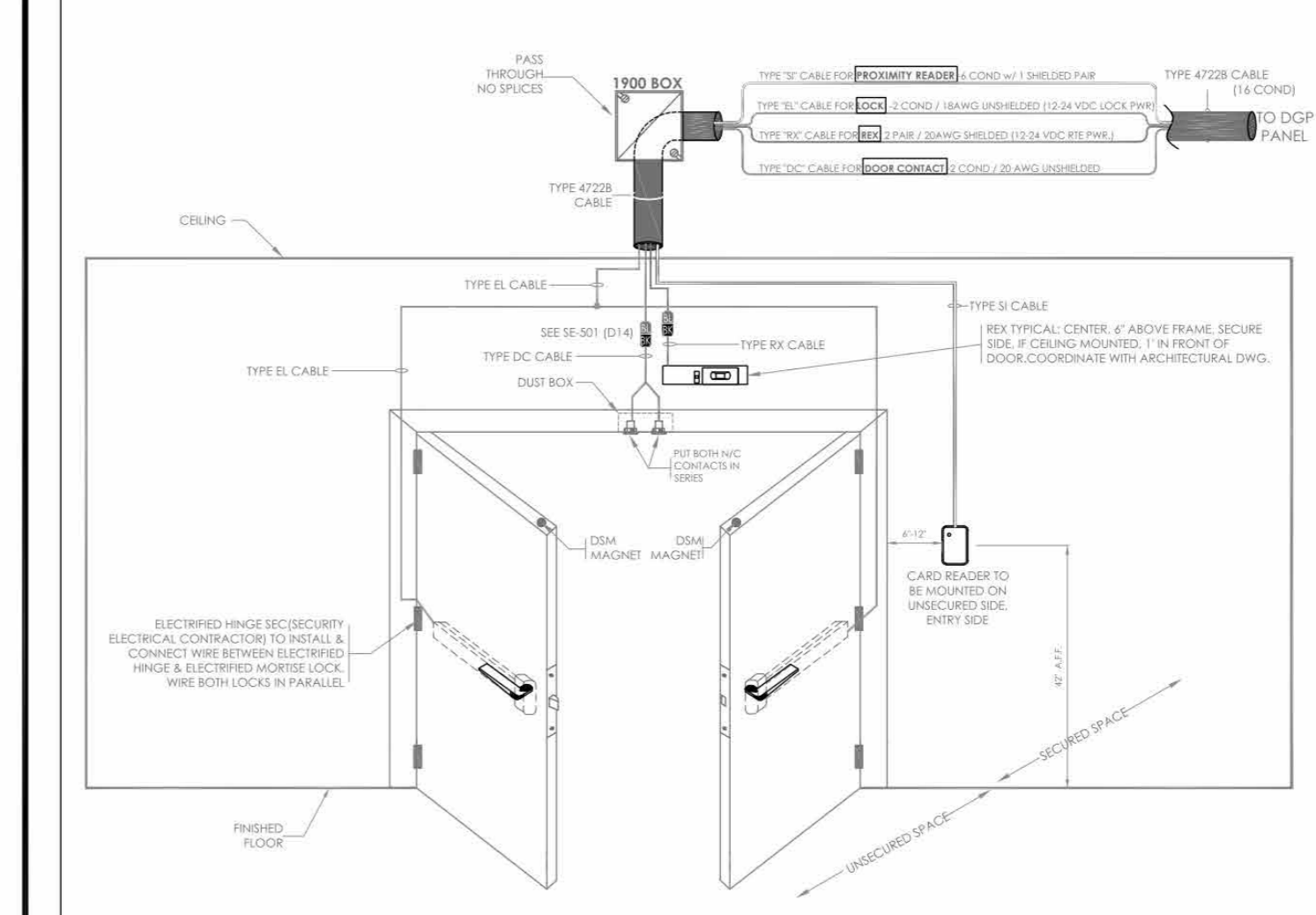
Sheet Number:
SE300

NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTES, DEVICE ELEVATION AND OTHERS ARE FOR REFERENCE ONLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENR DRAWINGS AND REVISIONS FOR THE SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DEVELOP A TURN KEY SOLUTION TO OWNER.
3. CONTRACTOR TO VERIFY CAMERA FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
4. PRIOR TO PULLING CABLE WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED BY WHEN BROUGHT TO CLOSEST CLOSET.
5. ALL CABLES MUST BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED REBAR AND NOTE ON THE REBAR.
7. CONTRACTOR TO PROVIDE AND DELIVER A BOUND AS BUILT SET IN BOTH "E" SIZE HARD COPY (2 SETS) AND DIGITAL FORMATS.
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE:
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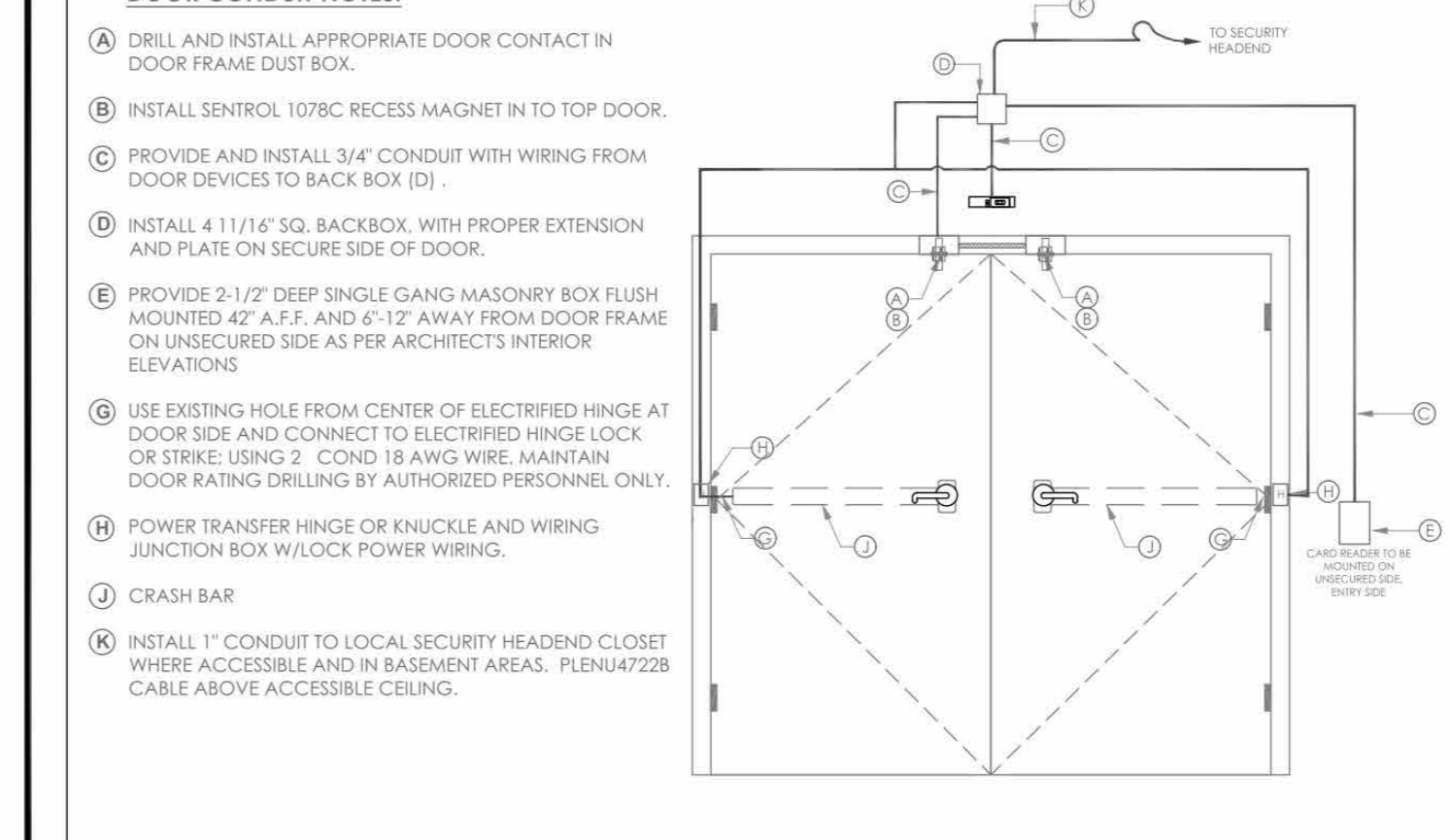
NOTE:
CONTRACTOR TO VERIFY ALL DOOR TYPES WITH THE GC/EC AND WORK WITH EC DURING THE CONSTRUCTION PHASE TO VERIFY ALL CONDUITS, STUB UPS AND PATHWAYS ARE DONE CORRECTLY TO ACCOMMODATE ALL SECURITY AND TELEDATA DEVICES AS NEEDED.

ACCESS CONTROL DOOR - CARD READER, DOUBLE DOOR CONTACT, ELECTRIFICRIFIED CRASH BAR, REQUEST-TO-EXIT (REX) SENSOR



NOTE: FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

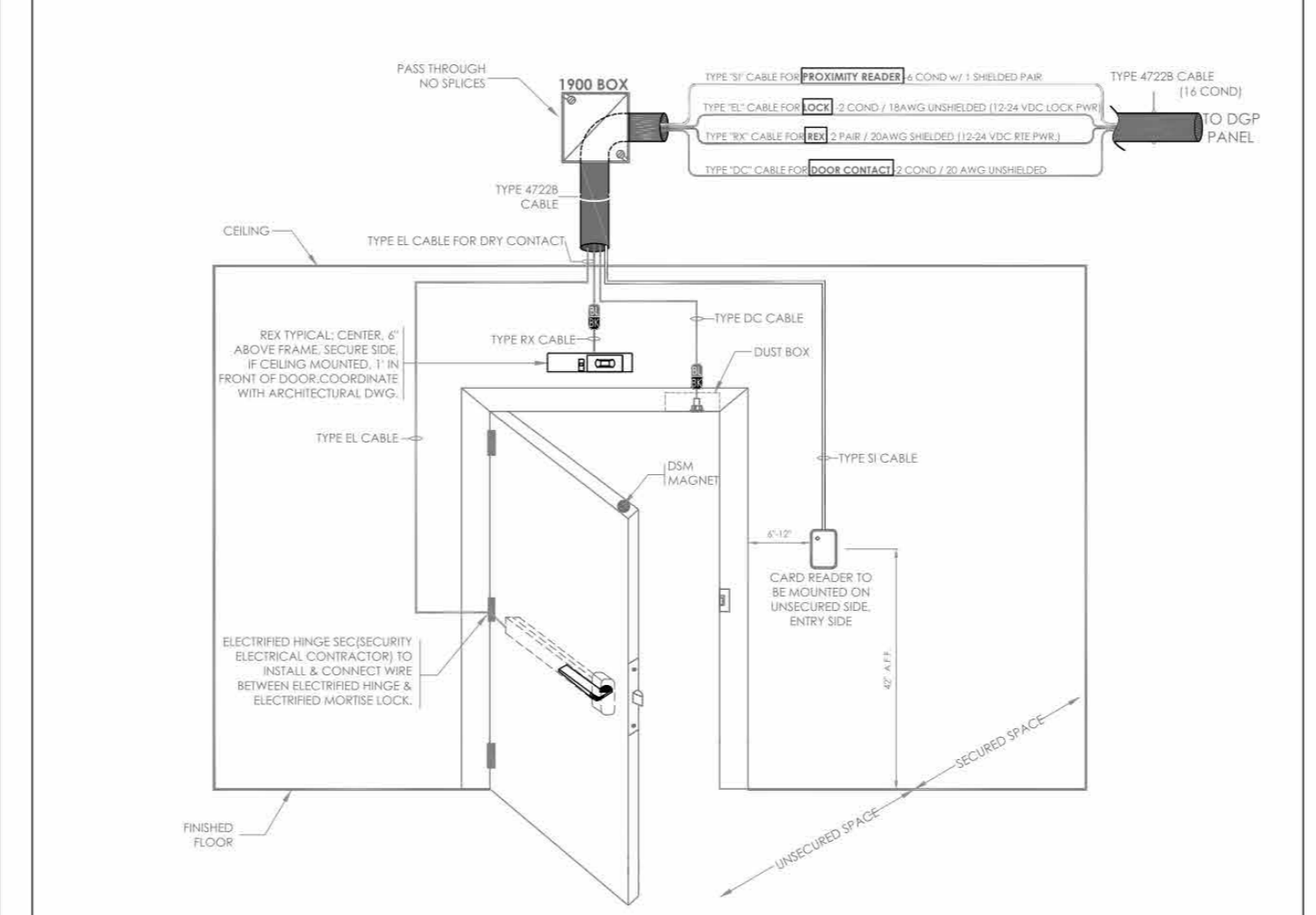
CONDUIT AND WIRING ROUGH-IN LAYOUT



DOOR CONDUIT NOTES:
A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
B) INSTALL SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
D) INSTALL 4 1/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
E) PROVIDE 2 1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6 1/2" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS.
F) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR. USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
G) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
H) CRASH BAR WITH BUILT-IN REX SWITCH.
I) INSTALL 1" CONDUIT TO LOCAL IDF CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN4728 CABLE ABOVE ACCESSIBLE CEILING.
J) CRASH BAR.
K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN4728 CABLE ABOVE ACCESSIBLE CEILING.

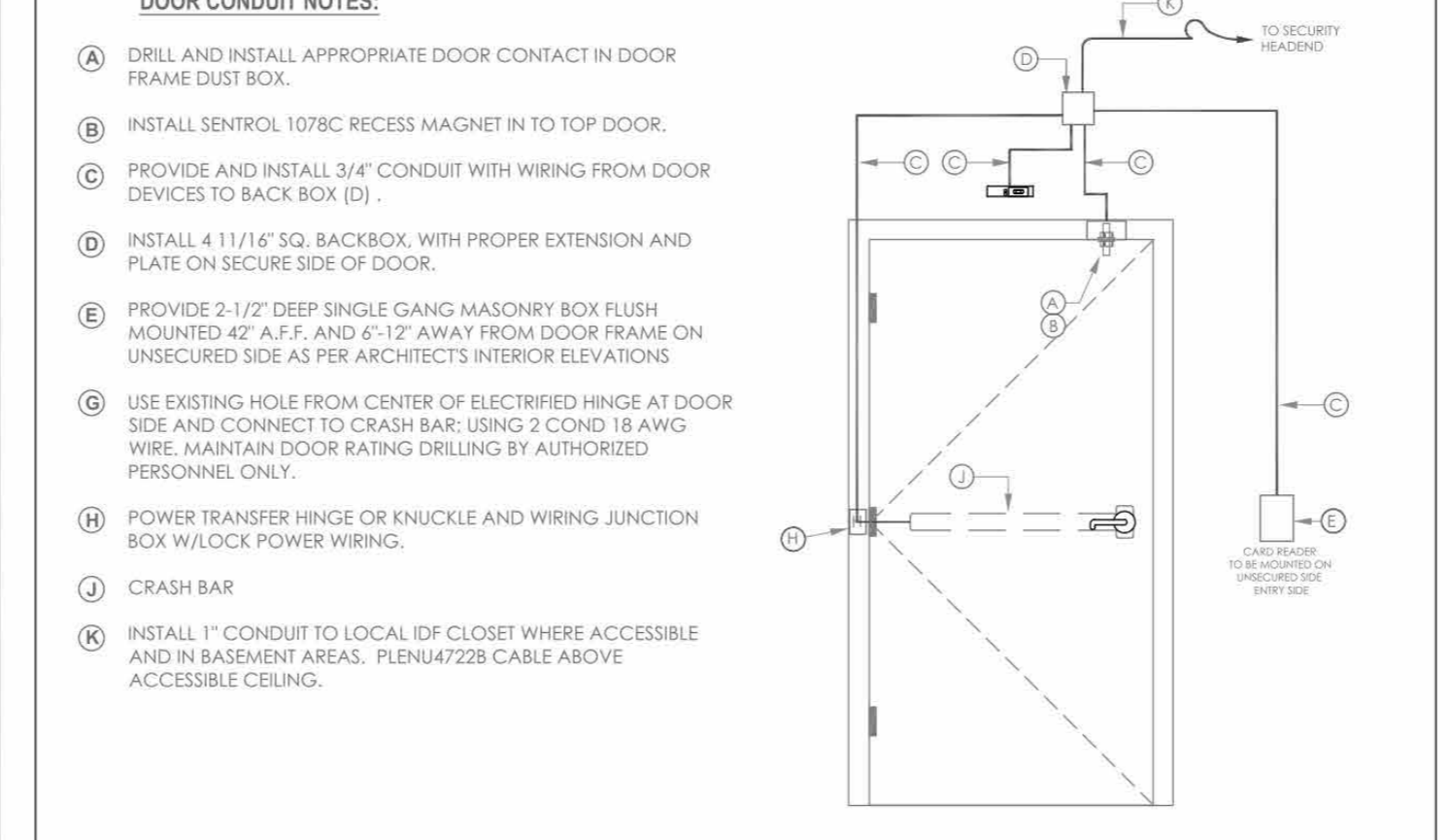
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DTL: D04

ACCESS CONTROL DOOR - CARD READER, DOUBLE DOOR CONTACT, ELECTRIFICRIFIED CRASH BAR, REQUEST-TO-EXIT (REX) SENSOR



NOTE: FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

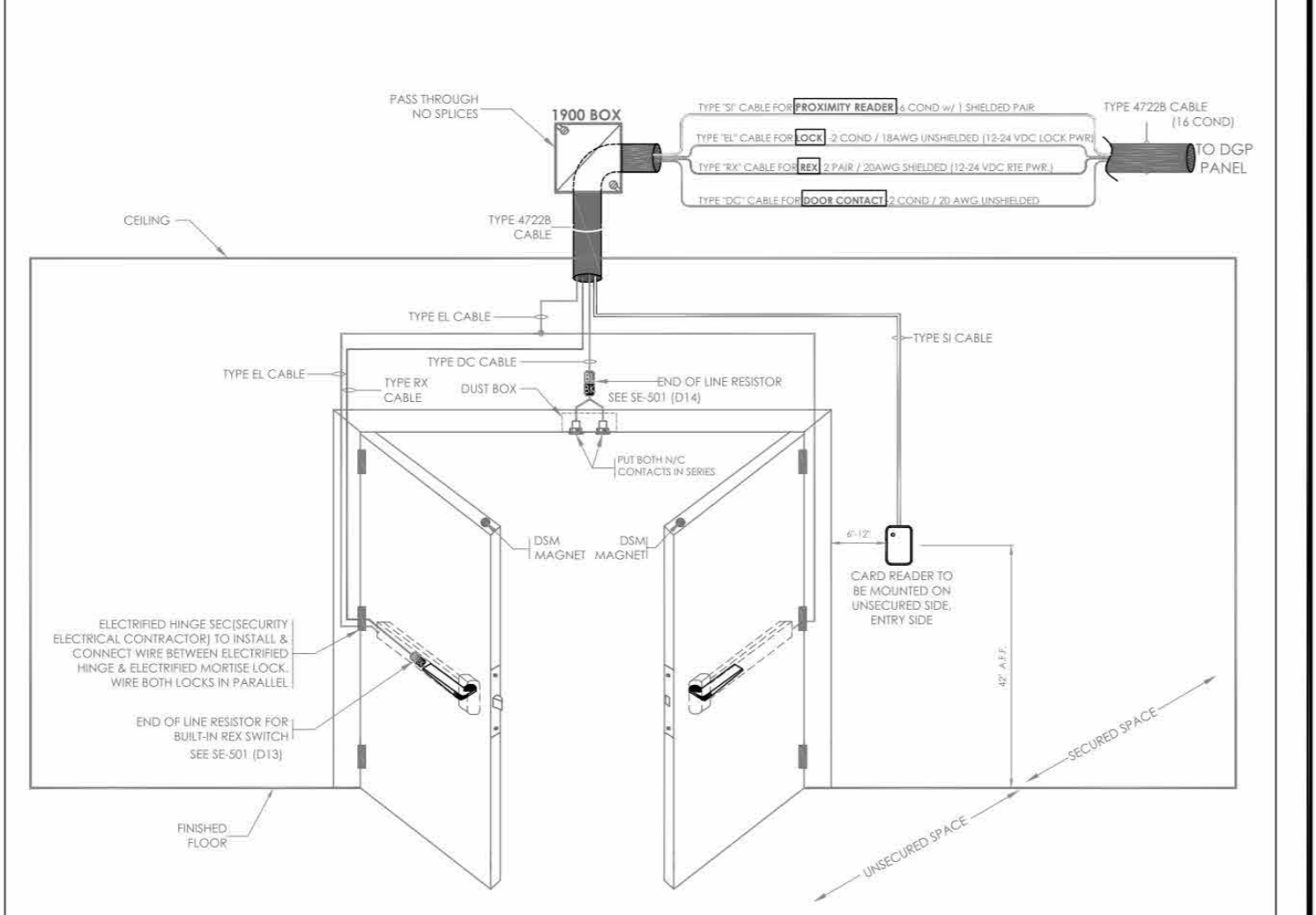
CONDUIT AND WIRING ROUGH-IN LAYOUT



DOOR CONDUIT NOTES:
A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
B) INSTALL SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
D) INSTALL 4 1/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
E) PROVIDE 2 1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6 1/2" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS.
F) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR. USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
G) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
H) CRASH BAR.
I) INSTALL 1" CONDUIT TO LOCAL IDF CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN4728 CABLE ABOVE ACCESSIBLE CEILING.
J) CRASH BAR.
K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN4728 CABLE ABOVE ACCESSIBLE CEILING.

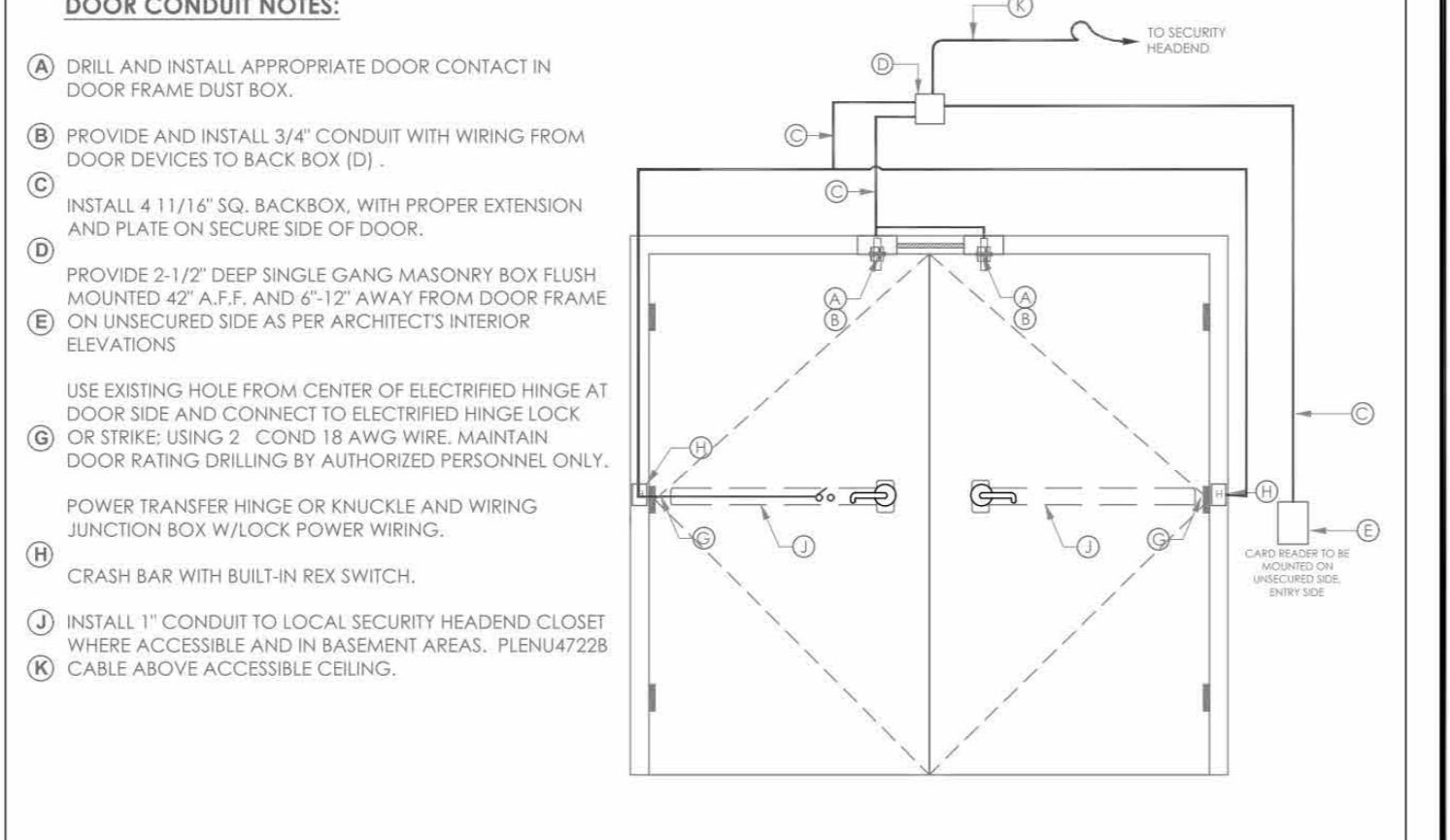
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DTL: D03

ACCESS CONTROL DOOR - CARD READER, DOUBLE DOOR CONTACT, ELECTRIFICRIFIED CRASH BAR w/BUILT-IN REX SWITCH



NOTE: FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

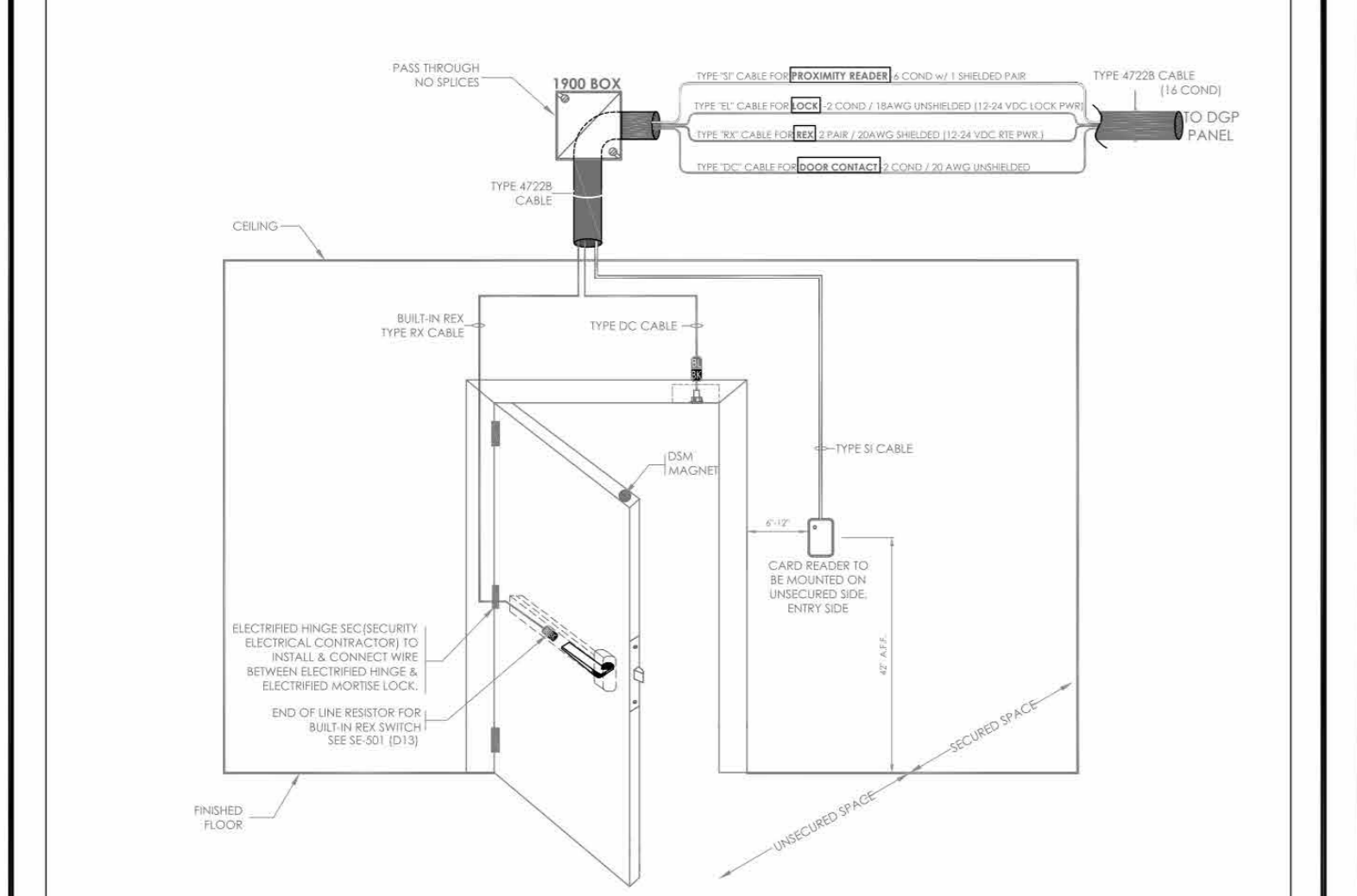
CONDUIT AND WIRING ROUGH-IN LAYOUT



DOOR CONDUIT NOTES:
A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
B) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
D) INSTALL 4 1/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
E) PROVIDE 2 1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6 1/2" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS.
F) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR. USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
G) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
H) CRASH BAR WITH BUILT-IN REX SWITCH.
I) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN4728 CABLE ABOVE ACCESSIBLE CEILING.
J) CRASH BAR.
K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN4728 CABLE ABOVE ACCESSIBLE CEILING.

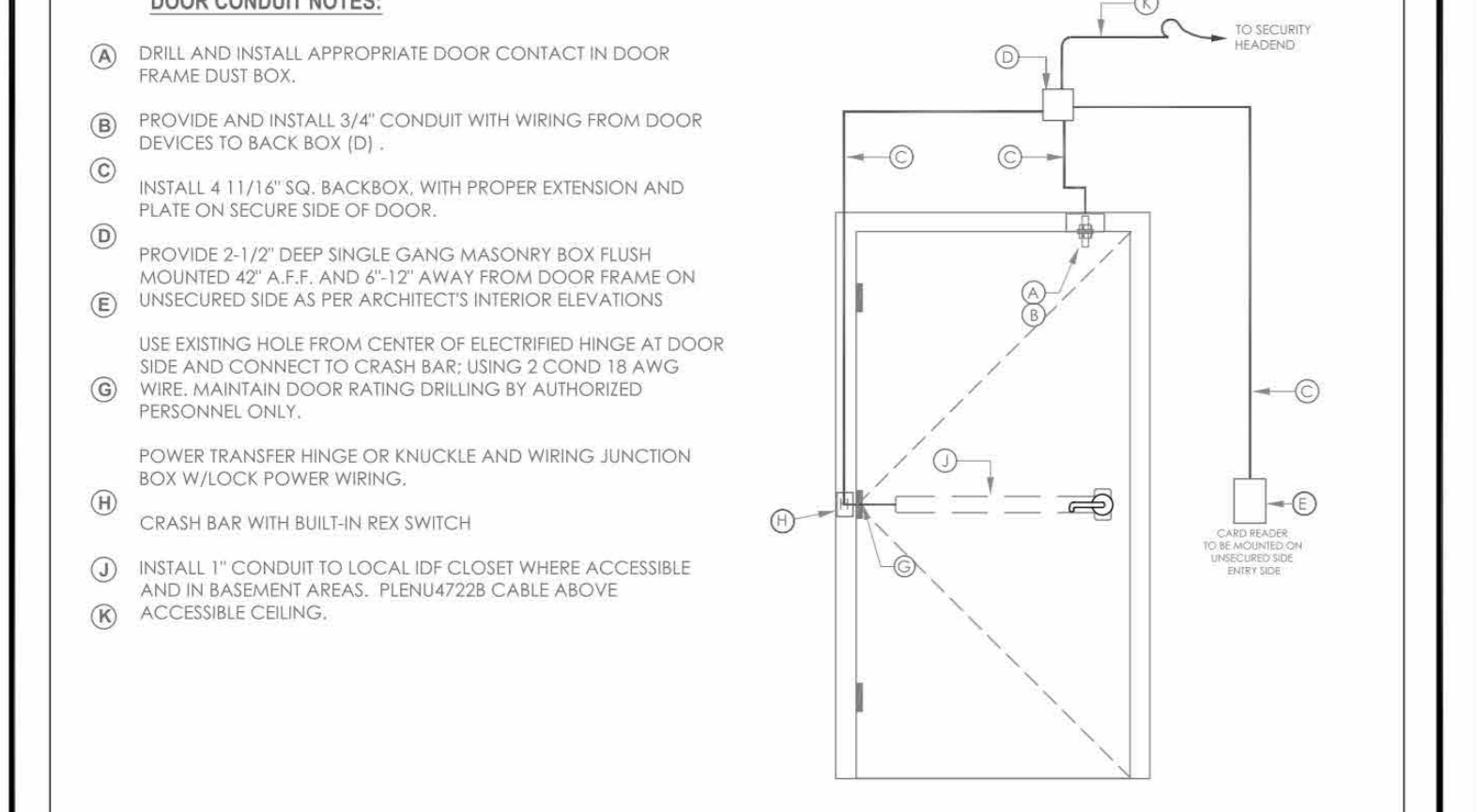
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DTL: D02

ACCESS CONTROL DOOR - CARD READER, DOOR CONTACT, ELECTRIFICRIFIED CRASH BAR w/BUILT-IN REX SWITCH



NOTE: FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

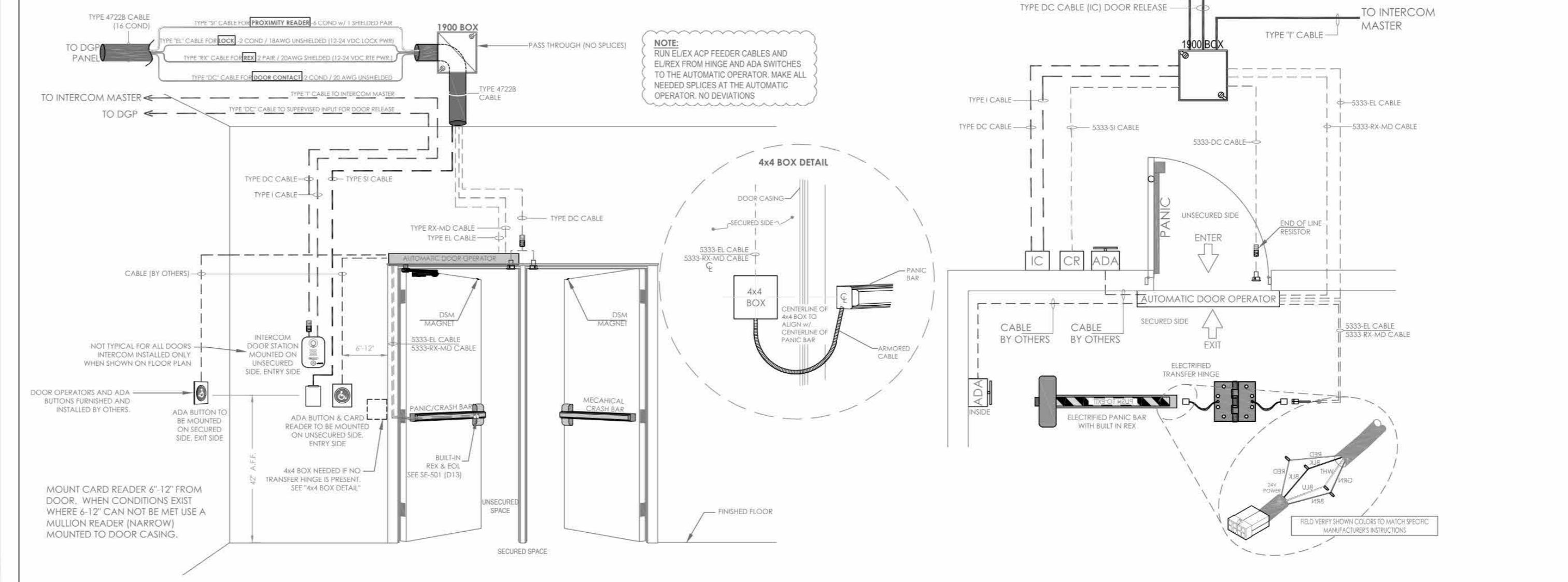
CONDUIT AND WIRING ROUGH-IN LAYOUT



DOOR CONDUIT NOTES:
A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
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C) INSTALL 4 1/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
D) PROVIDE 2 1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6 1/2" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS.
E) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR. USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
F) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
G) CRASH BAR WITH BUILT-IN REX SWITCH.
H) INSTALL 1" CONDUIT TO LOCAL IDF CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN4728 CABLE ABOVE ACCESSIBLE CEILING.
I) CRASH BAR WITH BUILT-IN REX SWITCH.
J) CRASH BAR WITH BUILT-IN REX SWITCH.
K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN4728 CABLE ABOVE ACCESSIBLE CEILING.

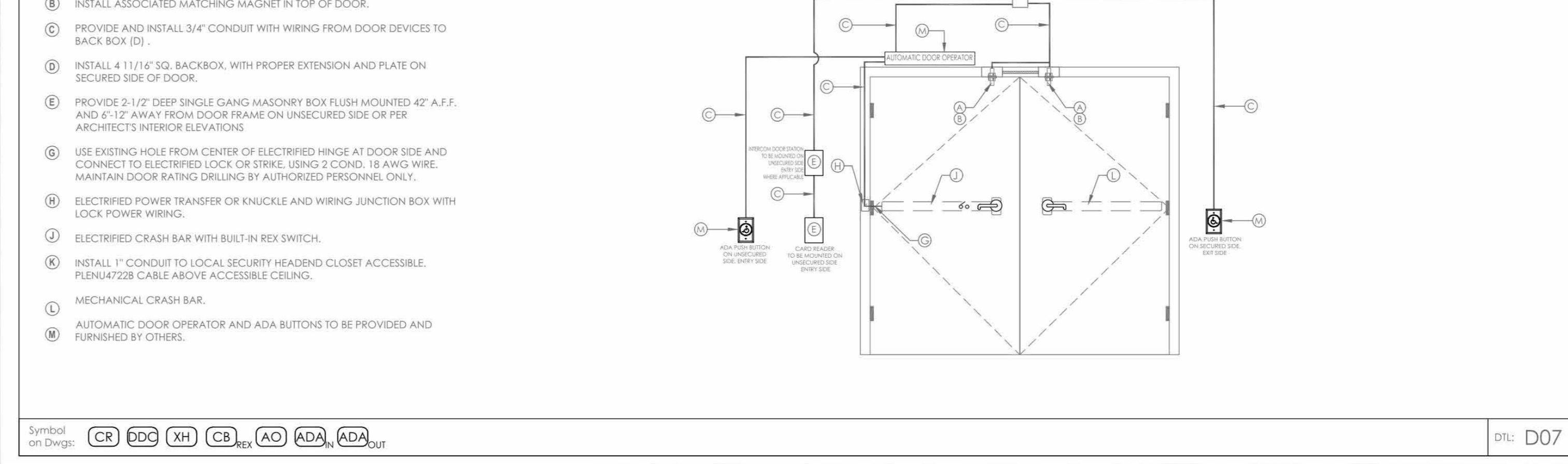
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DTL: D01

ACCESS CONTROL DOOR - CARD READER, DOUBLE DOOR CONTACT, AUTOMATIC DOOR OPERATOR, ELECTRIFICRIFIED CRASH BAR w/BUILT-IN REX SWITCH



NOTE: FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

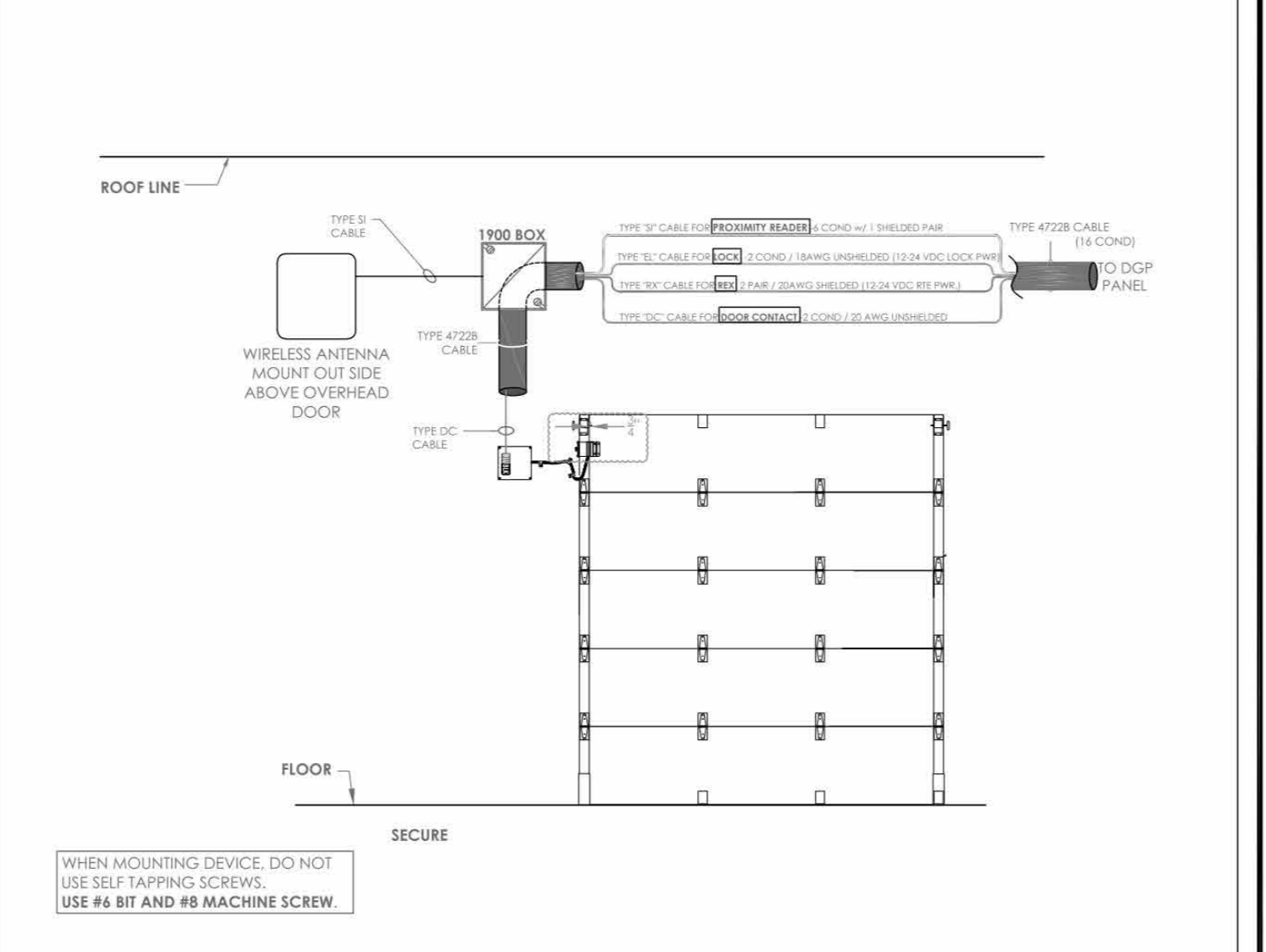
CONDUIT AND WIRING ROUGH-IN LAYOUT



DOOR CONDUIT NOTES:
A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
B) INSTALL ASSOCIATED MATCHING RECESS MAGNET IN TOP OF DOOR.
C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
D) INSTALL 4 1/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
E) PROVIDE 2 1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6 1/2" AWAY FROM DOOR FRAME ON UNSECURED SIDE OR PER ARCHITECT'S INTERIOR ELEVATIONS.
F) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR. USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
G) ELECTRIFIED POWER TRANSFER OR KNUCKLE AND WIRING JUNCTION BOX WITH LOCK POWER WIRING.
H) ELECTRIFIED CRASH BAR WITH BUILT-IN REX SWITCH.
I) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE. PLEN4728 CABLE ABOVE ACCESSIBLE CEILING.
J) MECHANICAL CRASH BAR.
K) AUTOMATIC DOOR OPERATOR AND ADA BUTTONS TO BE PROVIDED AND FURNISHED BY OTHERS.

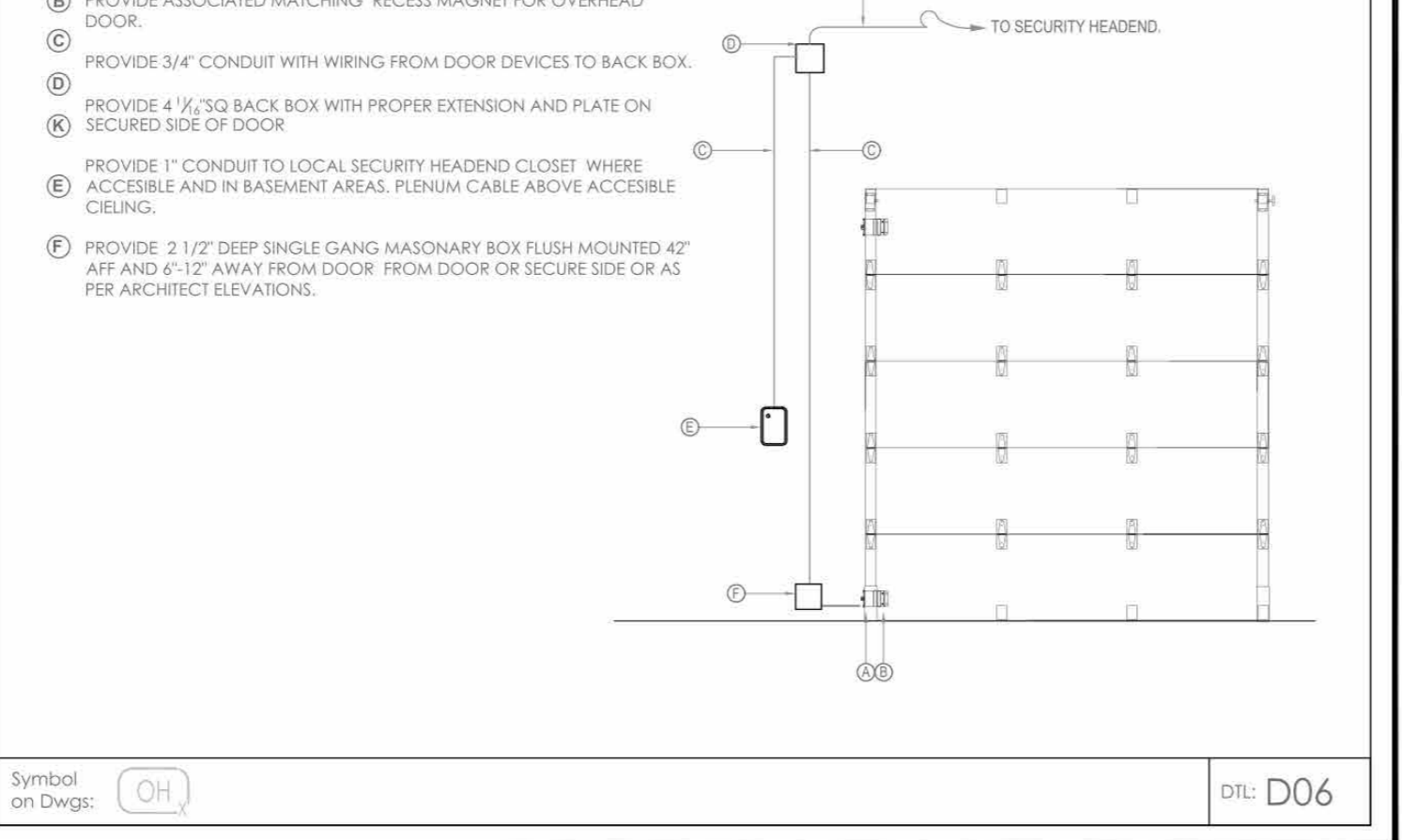
Symbol on Dwg: CR DDC XH CB AC ADA ADA OUT
DTL: D07

OVERHEAD DOOR w/ CARD READER & CONTACT



NOTE: FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

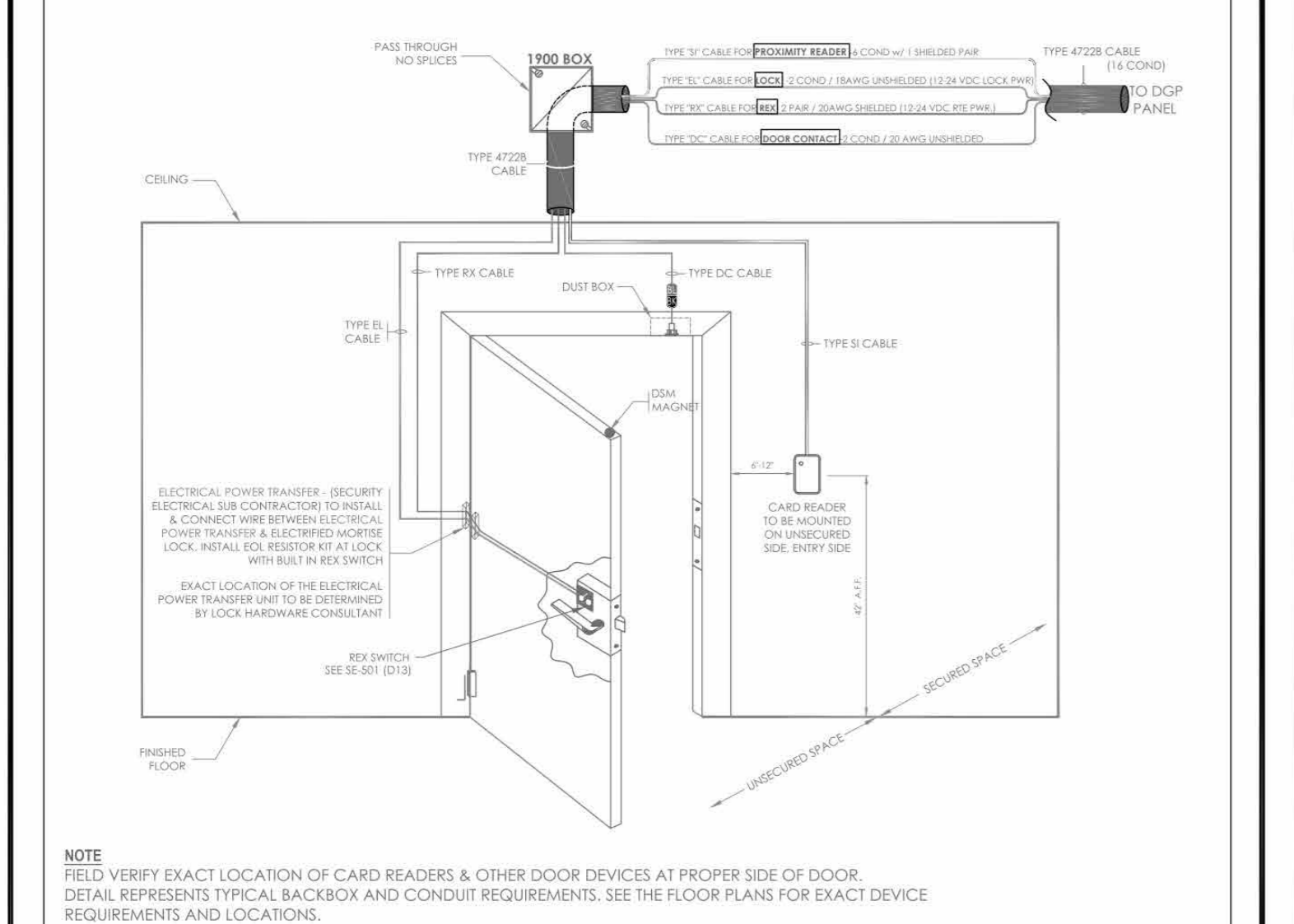
CONDUIT AND WIRING ROUGH-IN LAYOUT



DOOR CONDUIT NOTES:
A) PROVIDE APPROPRIATE OVERHEAD CONTACT IN FOR OVERHEAD DOOR.
B) PROVIDE ASSOCIATED MATCHING RECESS MAGNET FOR OVERHEAD DOOR.
C) PROVIDE 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
D) PROVIDE 4 1/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR.
E) PROVIDE 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN4728 CABLE ABOVE ACCESSIBLE CEILING.
F) PROVIDE 2 1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6 1/2" AWAY FROM DOOR FROM DOOR OR SECURE SIDE OR AS PER ARCHITECT'S INTERIOR ELEVATIONS.

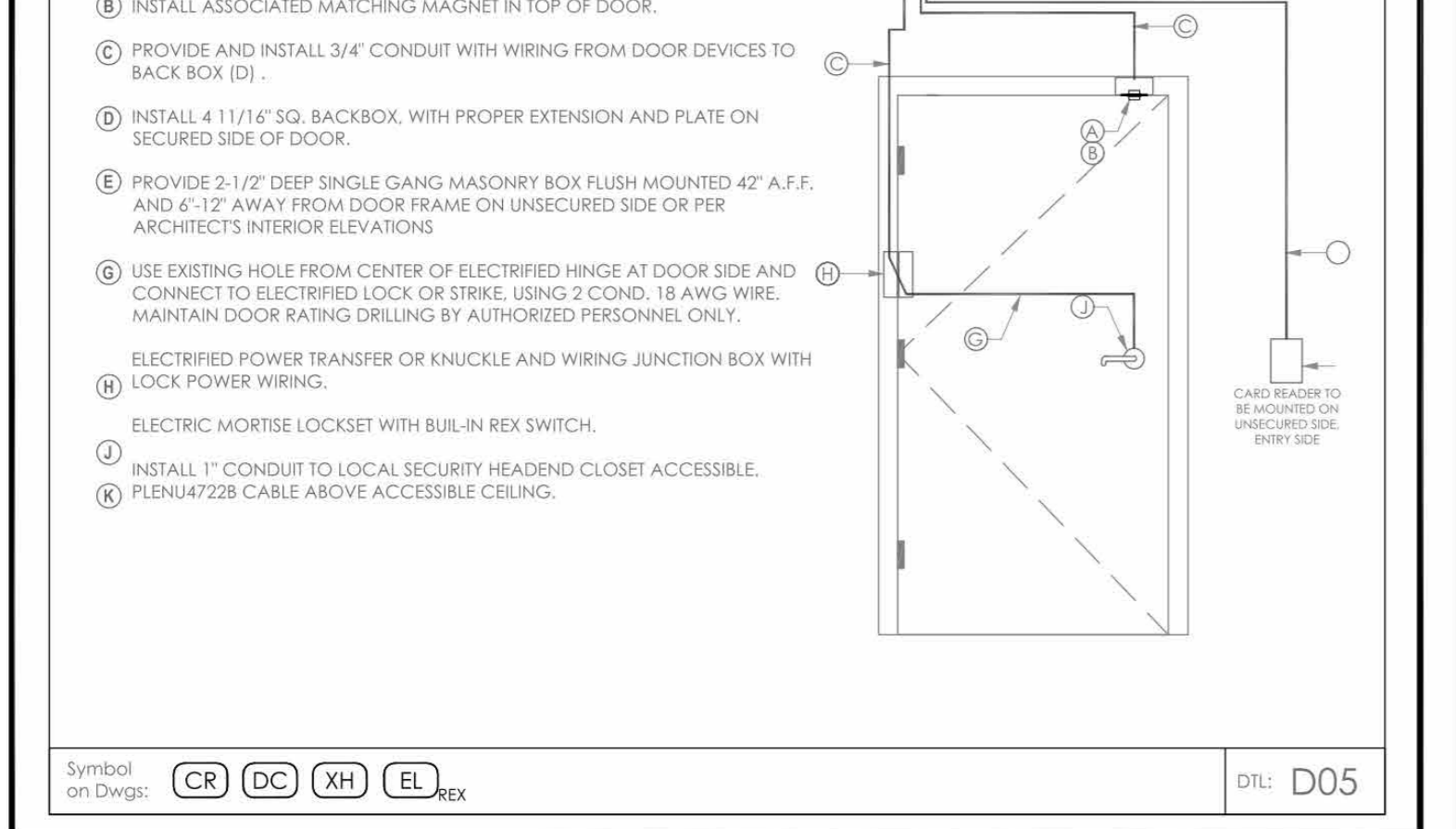
Symbol on Dwg: CH
DTL: D06

ACCESS CONTROL DOOR - CARD READER, DOOR CONTACT, ELECTRIC MORTISE LOCK w/BUILT-IN REX SWITCH



NOTE: FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

CONDUIT AND WIRING ROUGH-IN LAYOUT



DOOR CONDUIT NOTES:
A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
B) PROVIDE ASSOCIATED MATCHING RECESS MAGNET IN TOP OF DOOR.
C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
D) INSTALL 4 1/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR.
E) PROVIDE 2 1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6 1/2" AWAY FROM DOOR FRAME ON UNSECURED SIDE OR PER ARCHITECT'S INTERIOR ELEVATIONS.
F) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR. USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
G) ELECTRIFIED POWER TRANSFER OR KNUCKLE AND WIRING JUNCTION BOX WITH LOCK POWER WIRING.
H) ELECTRIC MORTISE LOCKSET WITH BUILT-IN REX SWITCH.
I) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE. PLEN4728 CABLE ABOVE ACCESSIBLE CEILING.

Symbol on Dwg: CR DC XH EL REX
DTL: D05

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SECURITY EQUIPMENT DETAIL DOOR TYPICALS-1

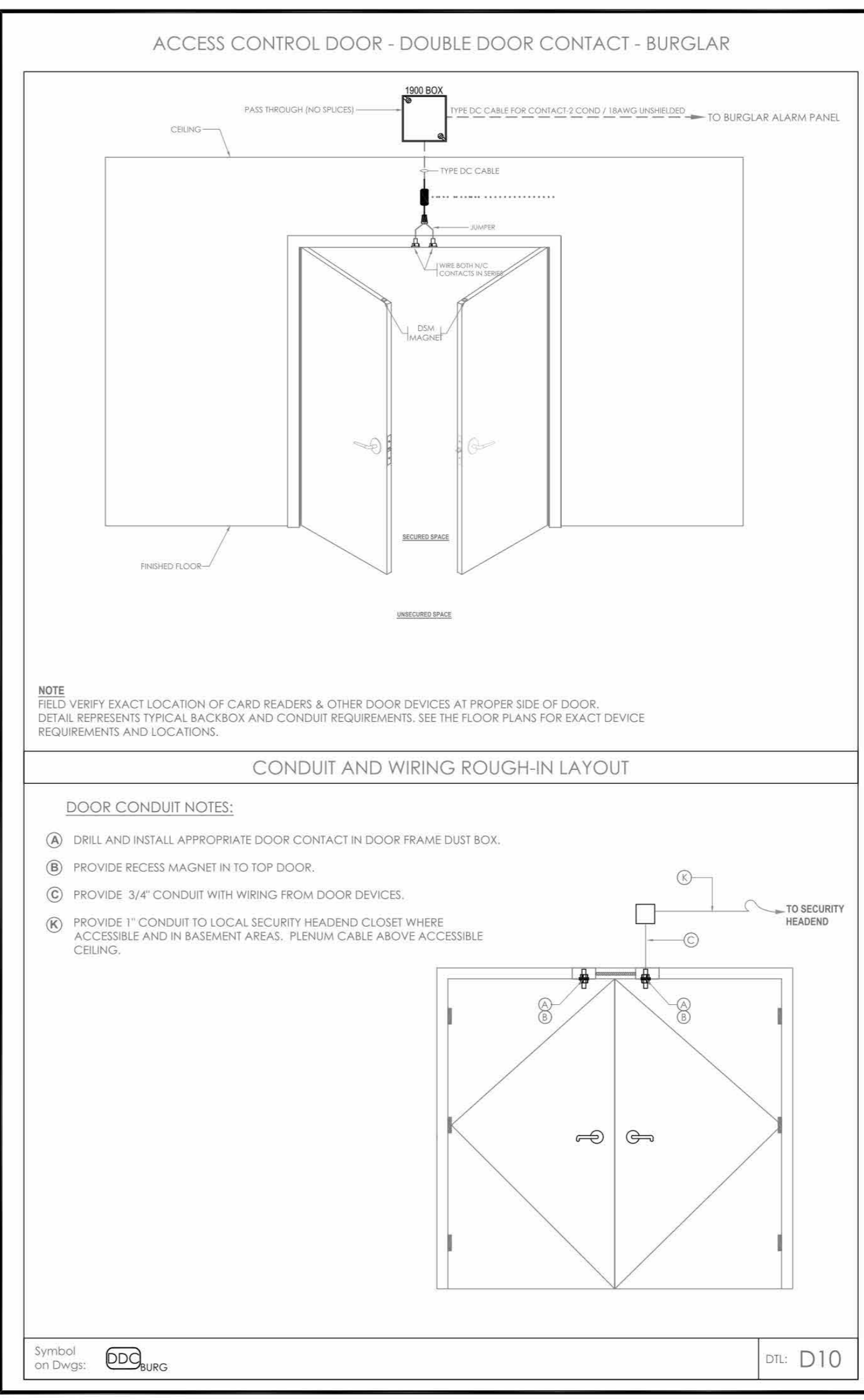
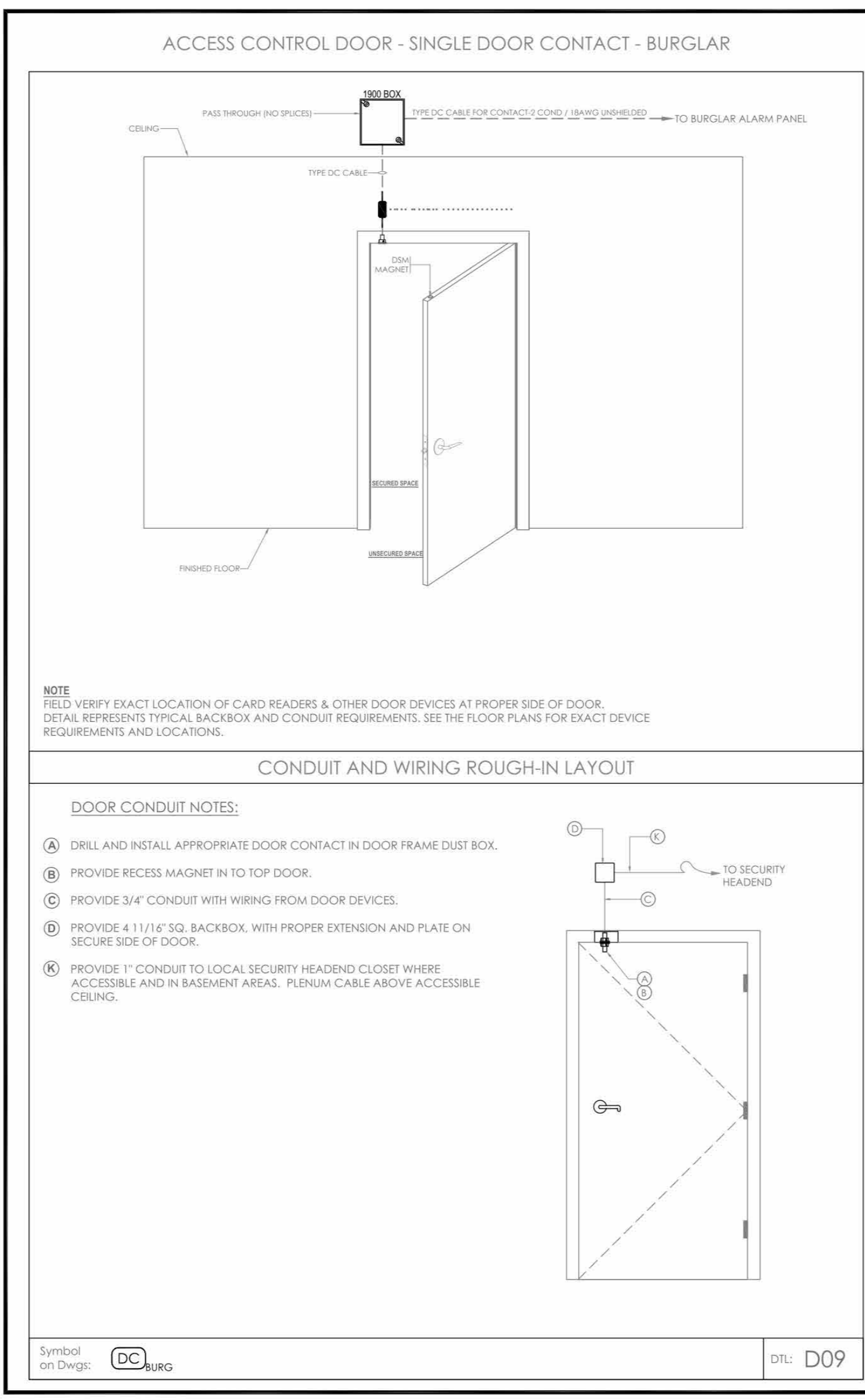
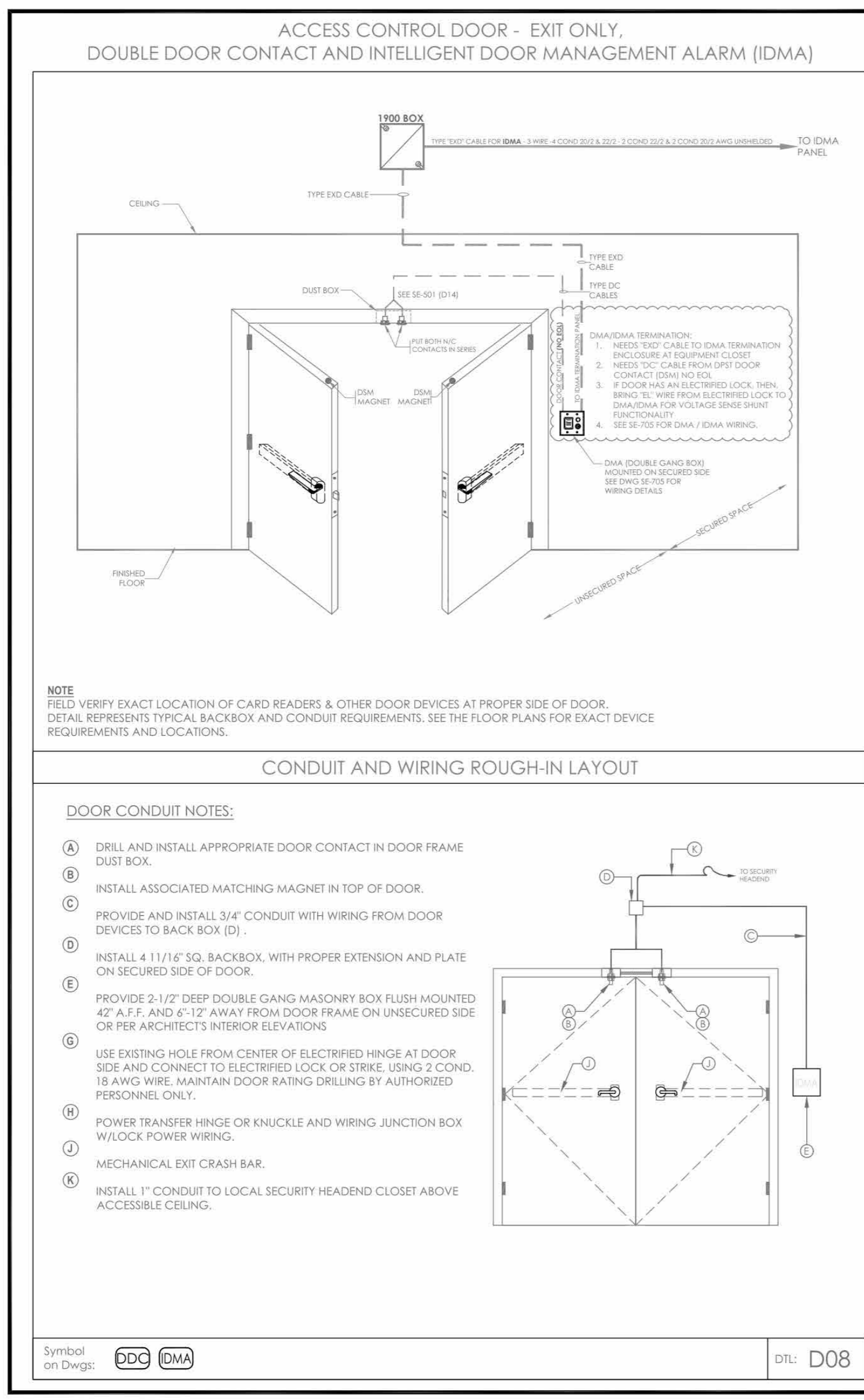
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WORK ORDER NO: DATE: 12/08/2023
SCALE:
S.A. NO: SE-500

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| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title: SECURITY EQUIPMENT DETAIL DOOR TYPICALS-1

Job No: 2020-1005 Date: 06/05/24
Scale: AS NOTED Drawn / Checked: Author Checker

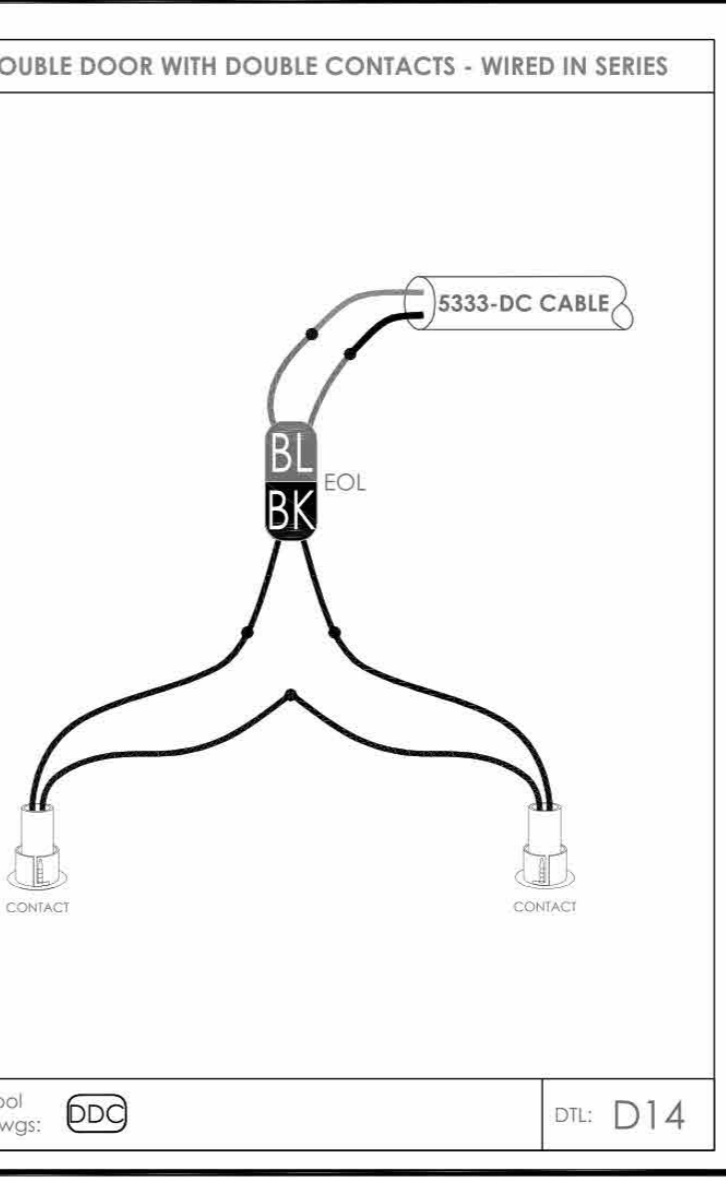
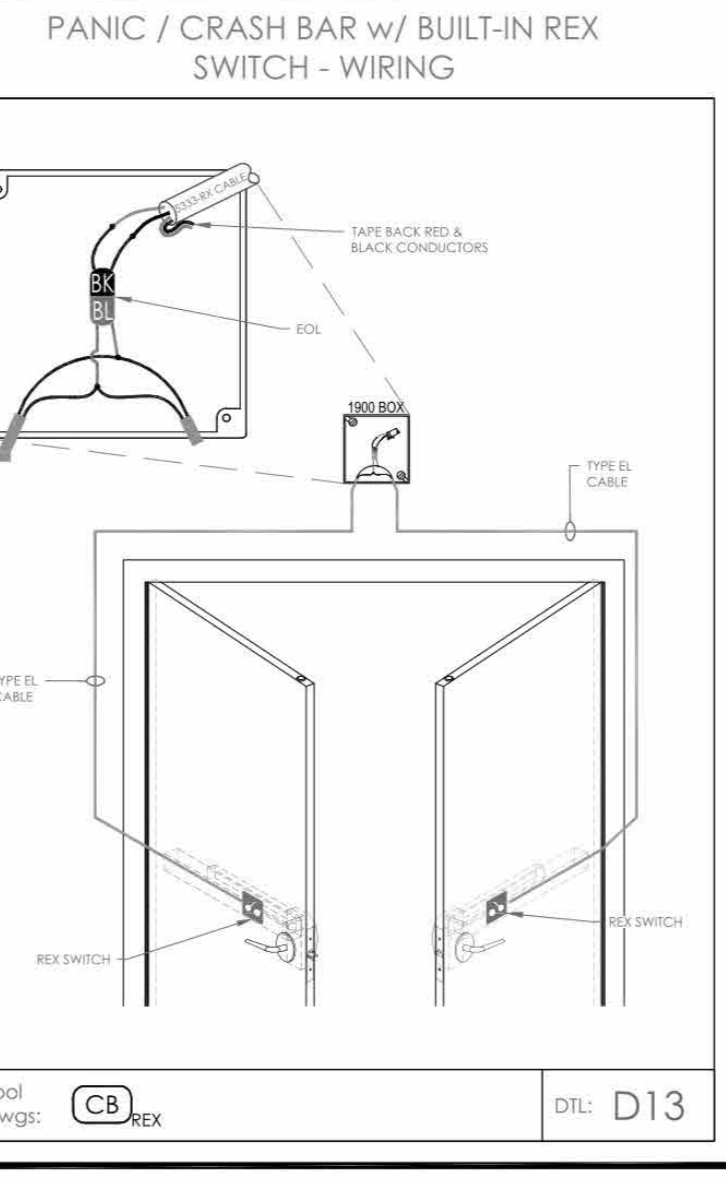
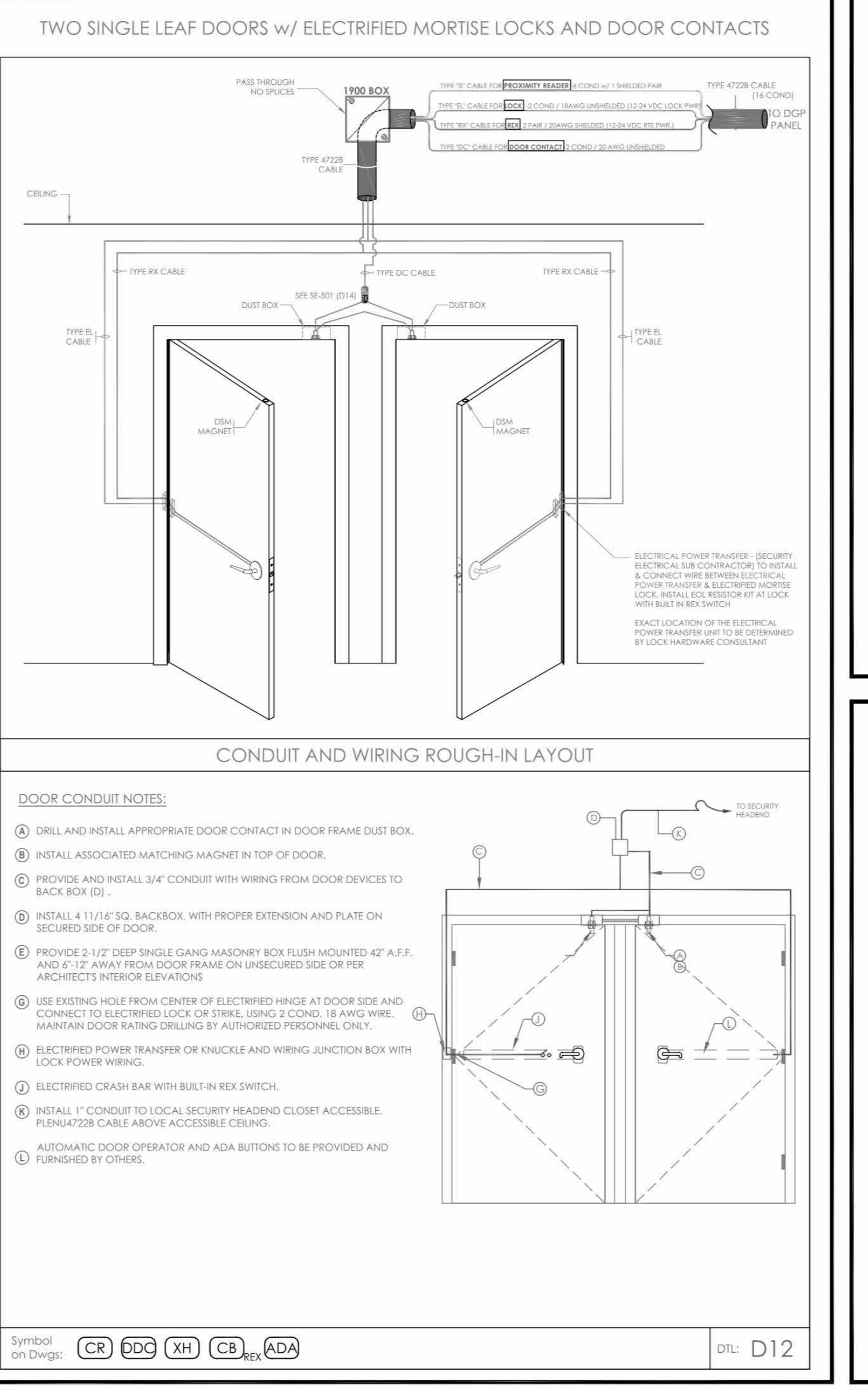
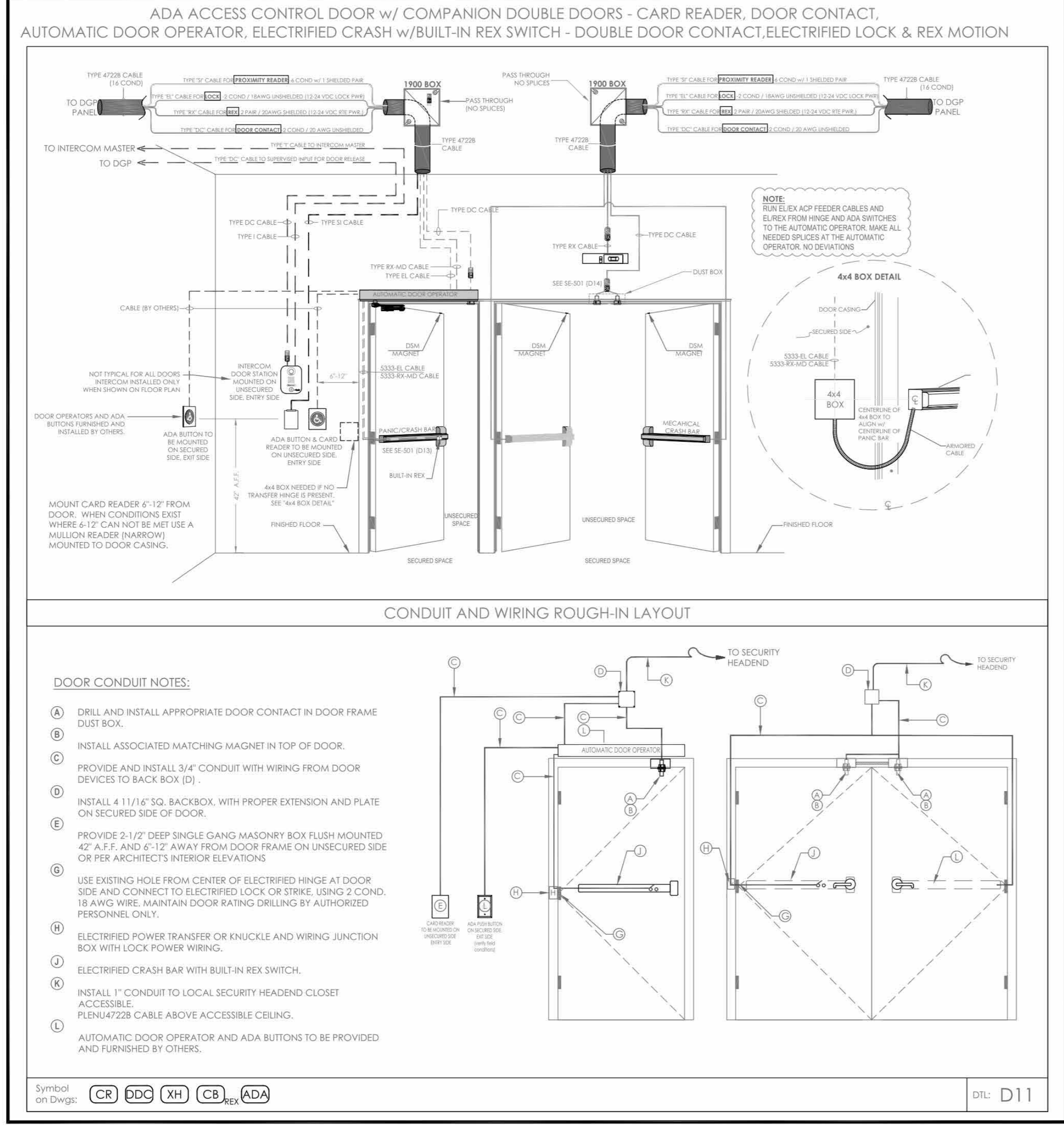
SE500



NOTE: CONTRACTOR TO VERIFY ALL DOOR TYPES WITH THE GC/EC AND WORK WITH EC DURING THE CONSTRUCTION PHASE TO VERIFY ALL CONDUITS, STUB UPS AND PATHWAYS ARE DONE CORRECTLY TO ACCOMMODATE ALL SECURITY AND TELEDATA DEVICES AS NEEDED

- NOTE:**
- DEVICE PLACEMENT, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 - THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENIRE DRAWINGS BE AD HEREIN DIVISION 27.28 SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DEVELOP A TURN KEY SOLUTION TO OWNER.
 - CONTRACTOR TO VERIFY CAMERA FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 - PRIOR TO PULLING CABLE WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 30' WHEN BROUGHT TO CLOSET CLOSURE.
 - ALL CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 - CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED REE AND NOTE ON THE 'AS BUILT'.
 - CONTRACTOR TO PRODUCE AND DELIVER A BOUND AS BUILT SET IN BOTH 'E' SIZE HARD COPY (2 SETS) AND DIGITAL FORMAT.
 - CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
 - DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE: THE BIDDING LOW VOLTAGE CONTRACTOR (LVLC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION.



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SECURITY EQUIPMENT DETAIL DOOR TYPICALS-2

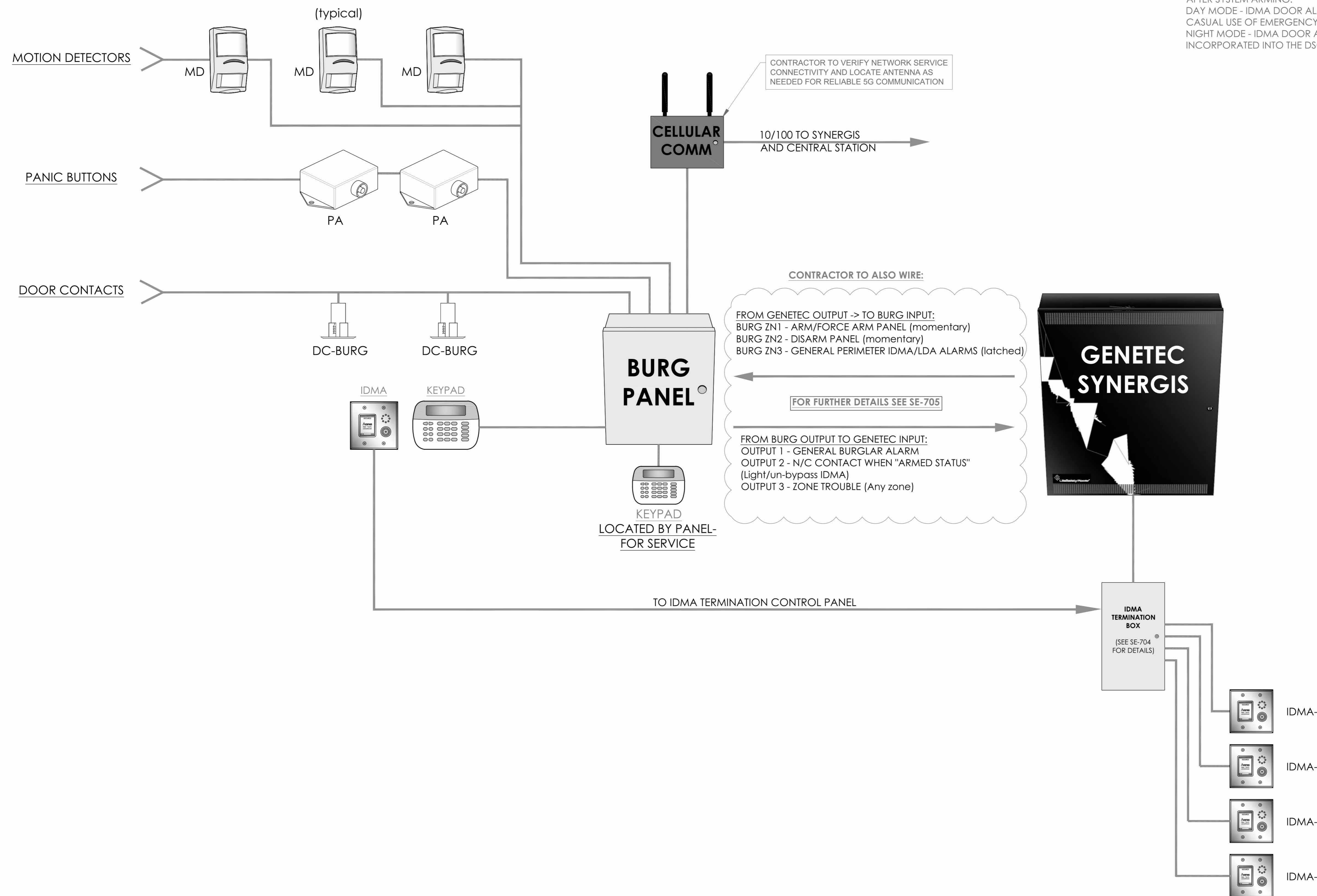
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DESIGNED BY: DATE: 12/08/2023
WORK ORDER NO.: SCALE:
S.A. NO.: DRAWING NO.: SE-501

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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Job No. 2020-1005 Date 06/05/24
Scale AS NOTED Drawn / Checked
Author Checker

Sheet Number **SE501**

BURGLAR & ACCESS - OVERALL SYSTEMS INTERFACE CONCEPT - ONE LINE DIAGRAM



NOTE:
CONTRACTOR TO INTERFACE DOOR ALARMS SUCH THAT THEY WILL BECOME PART OF THE BURGLAR ALARM SYSTEM AFTER SYSTEM ARMING.
DAY MODE - IDMA DOOR ALARMS ARE TO PREVENT CASUAL USE OF EMERGENCY DOORS
NIGHT MODE - IDMA DOOR ALARMS TO BE INCORPORATED INTO THE DSC BURGLAR ALARM SYSTEM

- NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHER ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE INFER DRAWINGS SET AND RELATED DIVISIONS 27, 28 SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO OWNER.
 3. CONTRACTOR TO VERIFY CAMERA'S FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 4. PRIOR TO PULLING C.A.T.A. WIRE, CONTRACTOR TO VERIFY CABLE LENGTHS (SEE NOT TO EXCEED) WHEN BROUGHT TO CLOSEST.
 5. ALL C.A.T.A. CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED BIDDING AND NOTE ON THE "AS BUILT".
 7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "E" SIZE HARD COPY (2 SETS) AND DIGITAL FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
 9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY, CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVCE) IS RESPONSIBLE TO PERFORM, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION

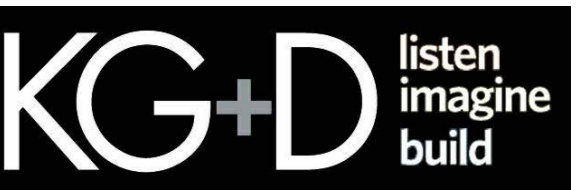
NOTE: PERIMETER "DOOR CONTACT" STATUS IS PROVIDED BY IDMA VIA SYNERGIS & GENETEC IS SENT TO THE BURGLAR PANEL VIA API AND HARD WIRED TO ZONE#3. IDMA ALARMS ARE ANNOUNCED LOCALLY AT THE DOOR, THE SECURITY WORKSTATION SOFTWARE AND EMAIL NOTIFICATIONS

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



KG+D ARCHITECTS, PC

285 MAIN STREET • MOUNT KISCO, NEW YORK 10549

P:914.666.5900 KGDARCHITECTS.COM

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| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

DESIGNED BY: EM
DRAWN BY: AO
CHECKED BY: IT

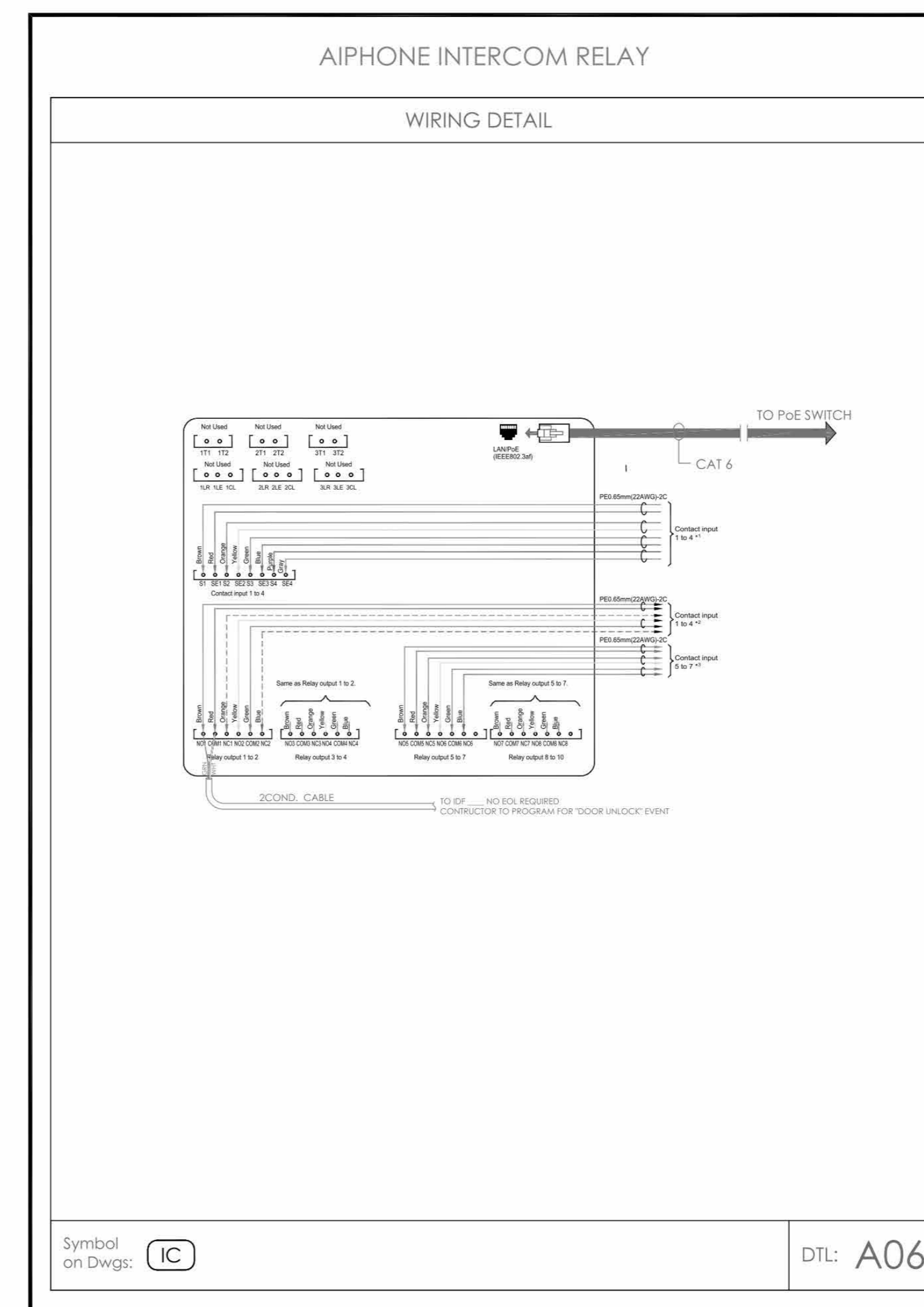
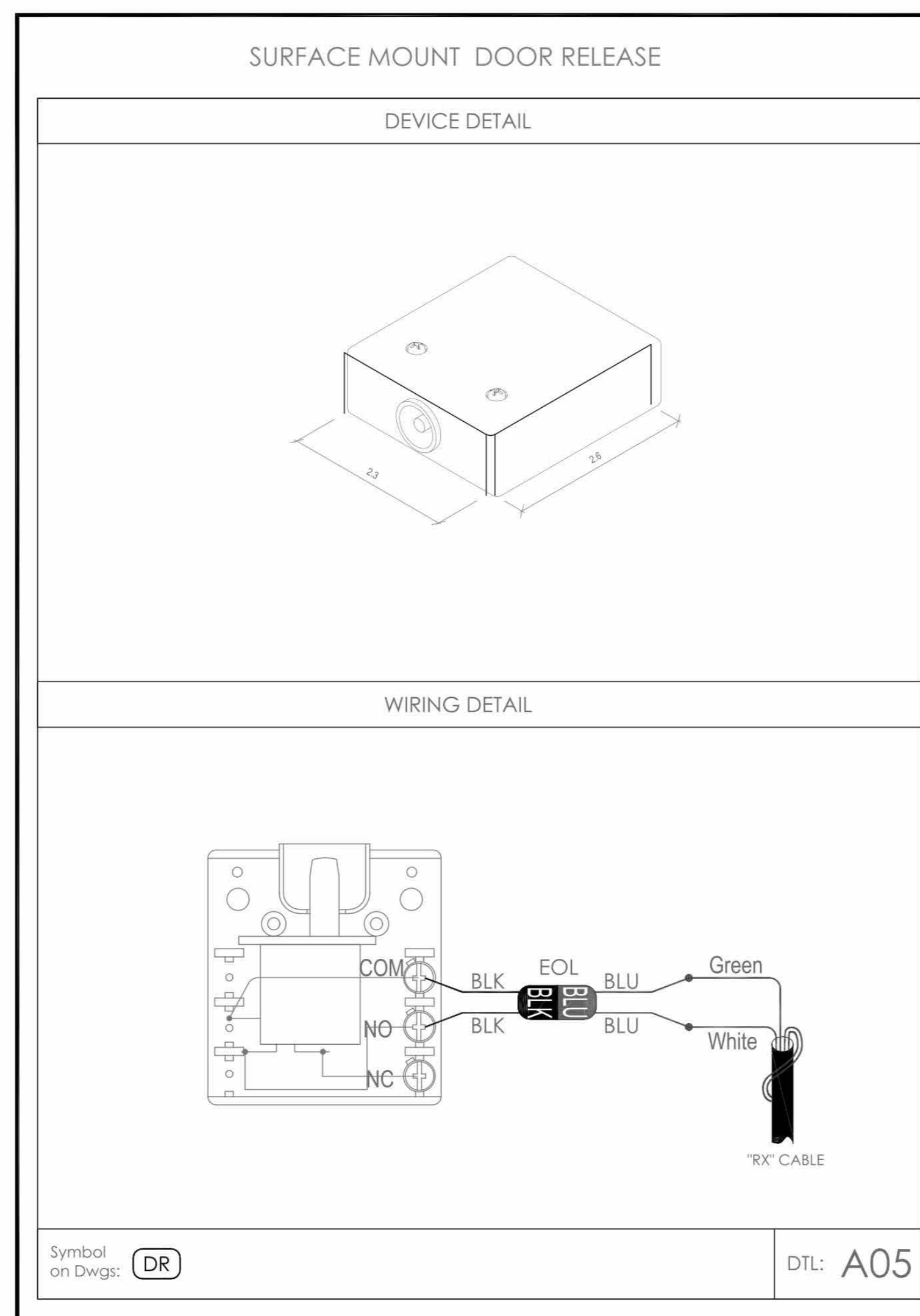
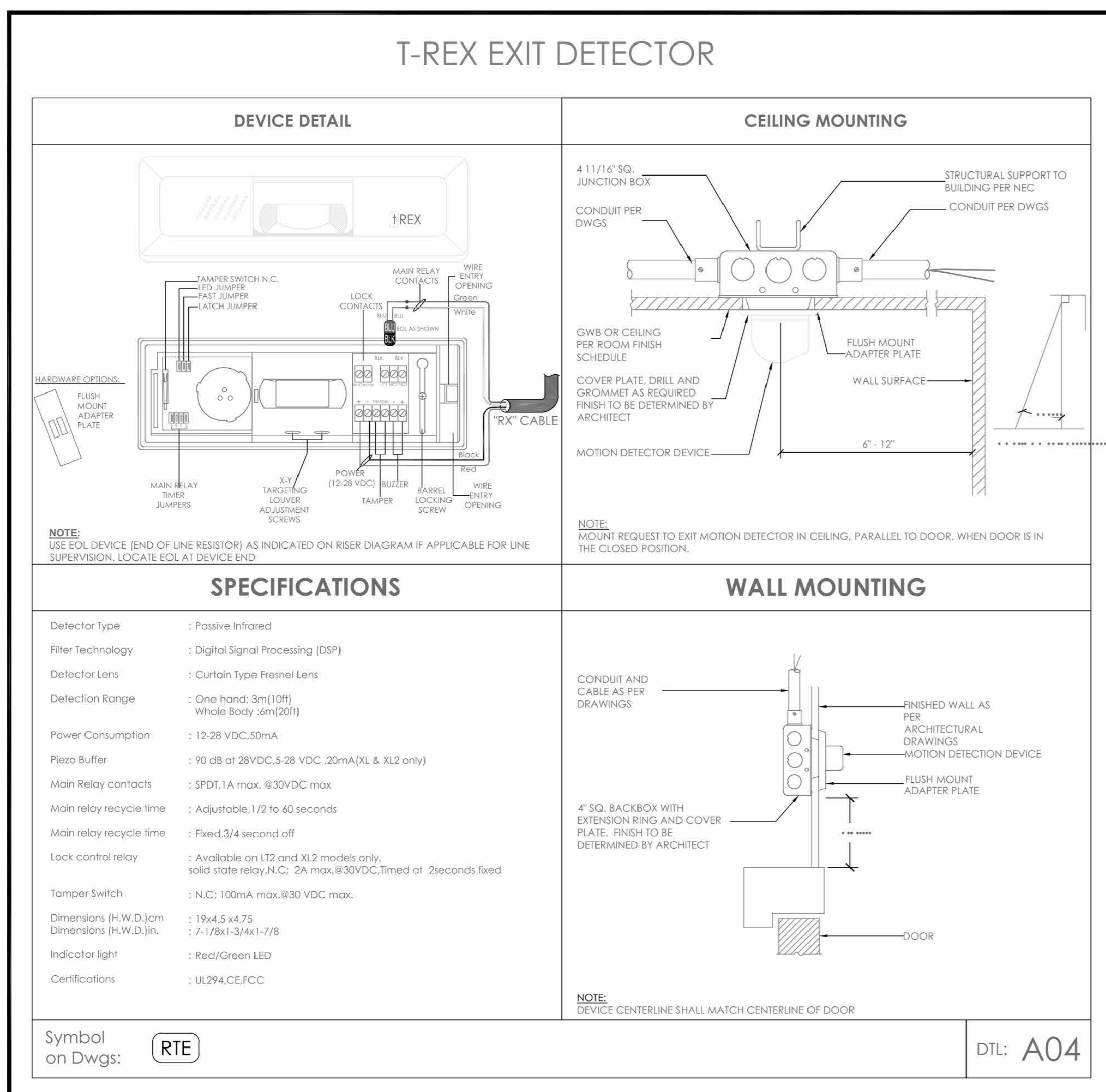
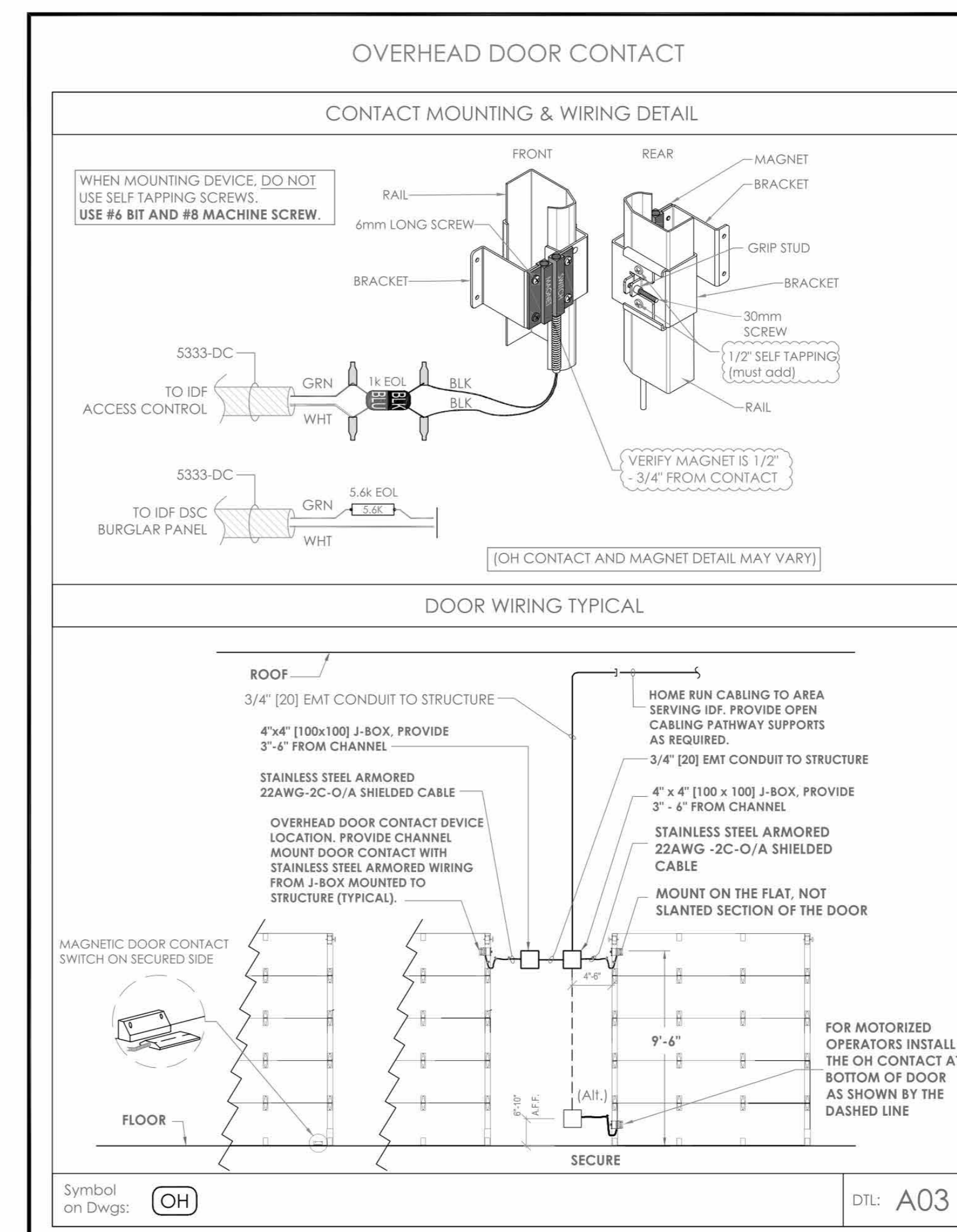
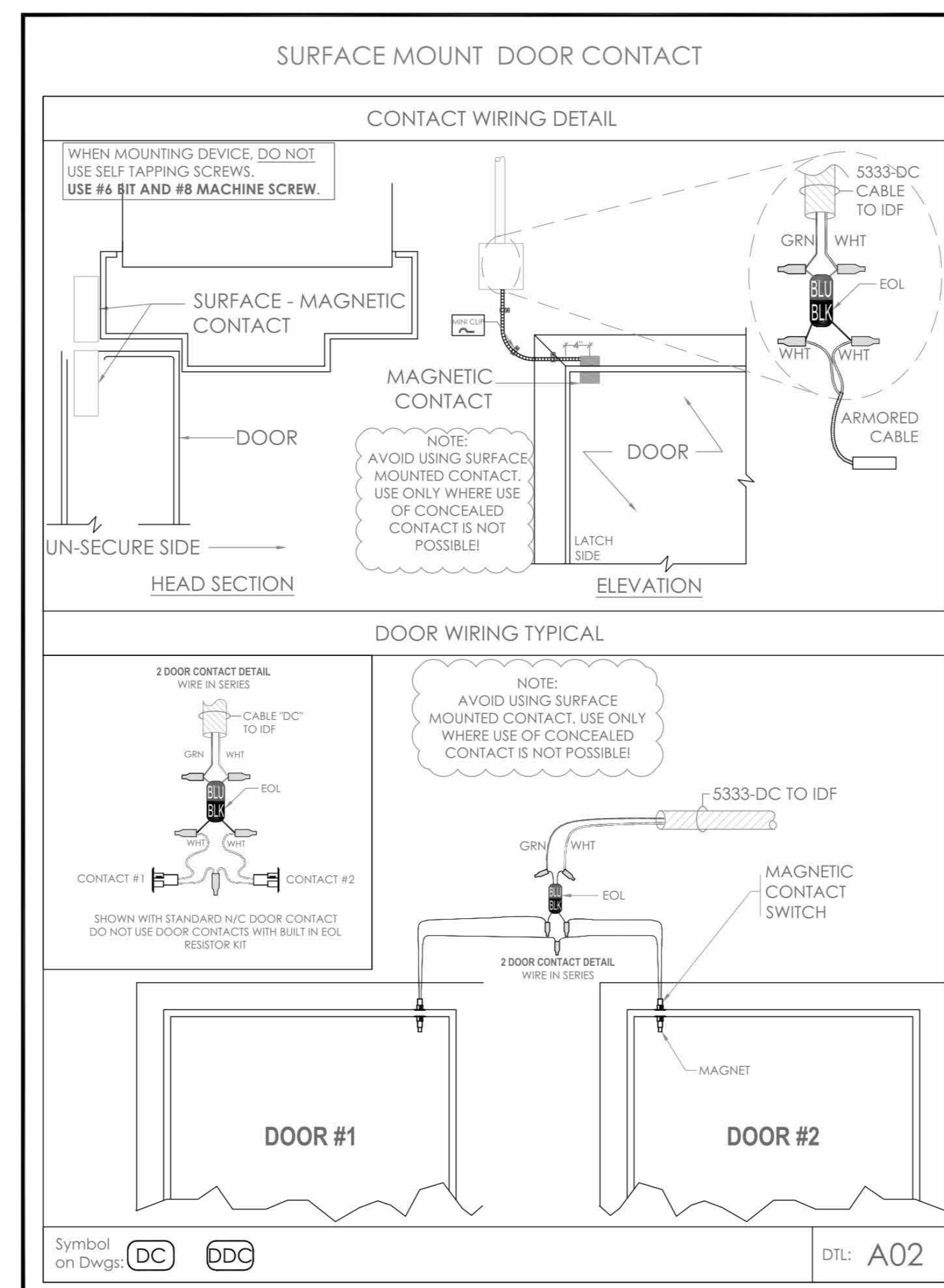
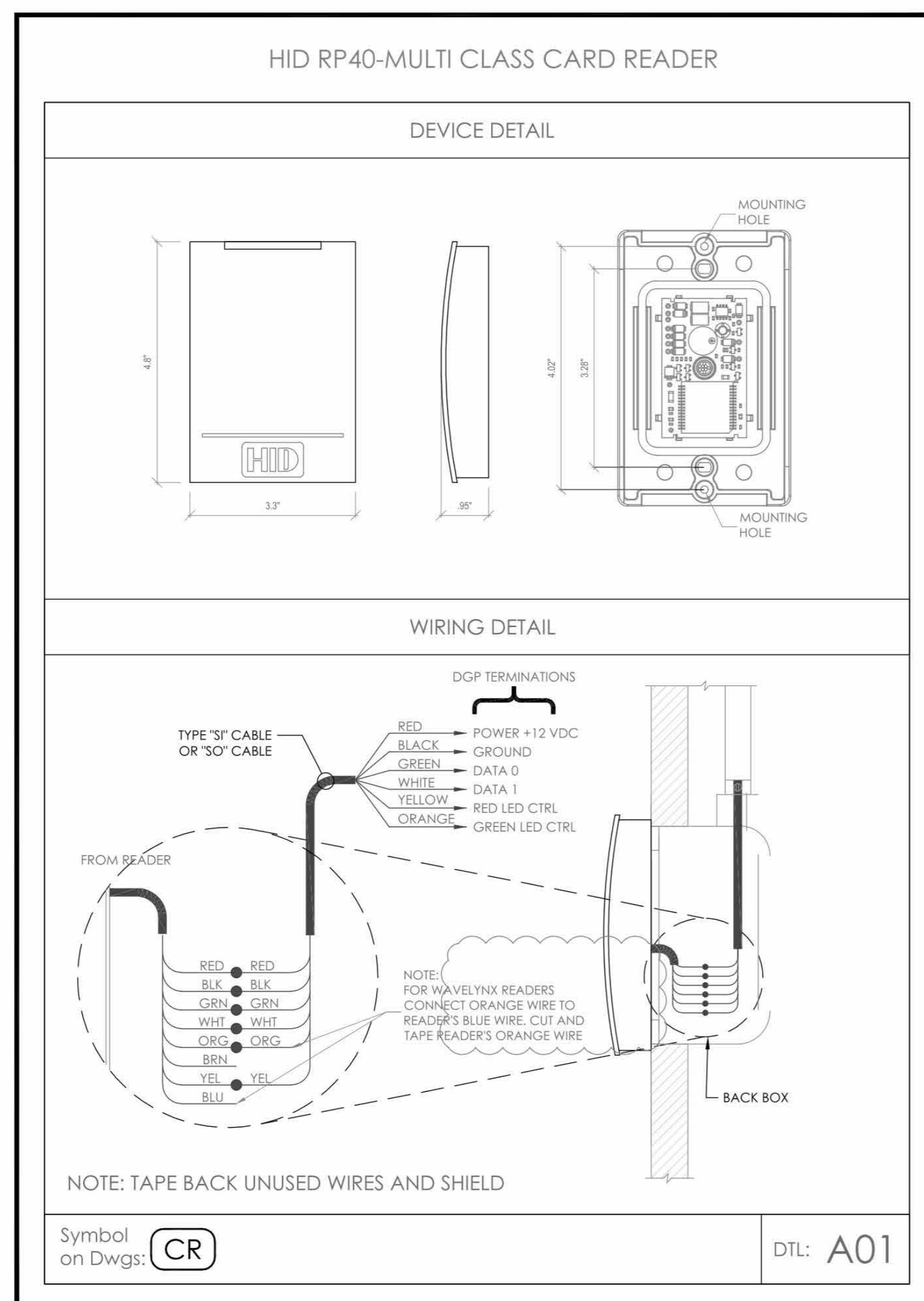
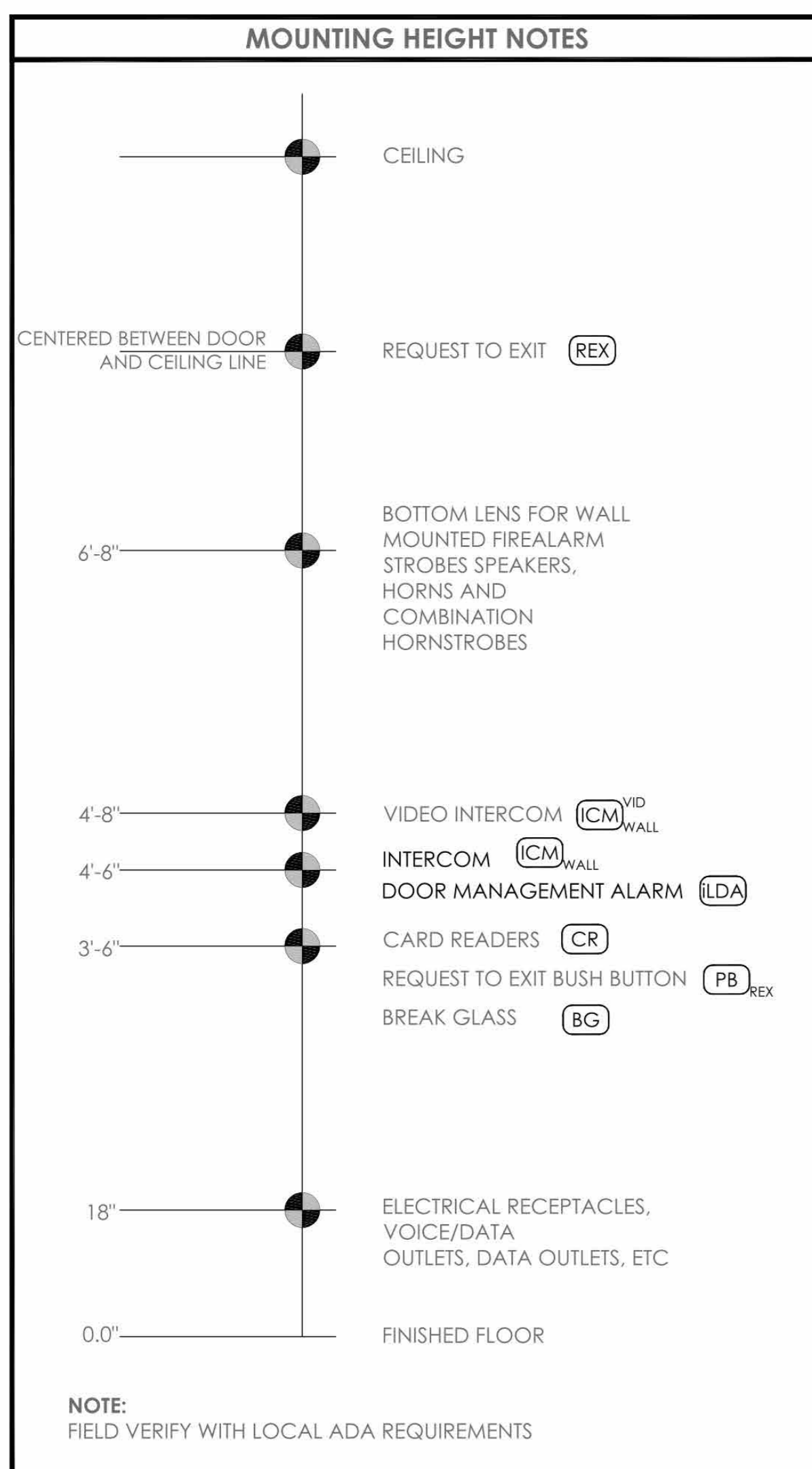
WORK ORDER NO.:
DATE: 12/08/2023
SCALE:

S.A. NO.:
DRAWING NO.: SE-701

BURGLAR & ACCESS CONTROL OVERALL SYSTEM INTERFACE ONE LINE DIAGRAM

Job No. 2020-1005 Date 06/05/24
Scale AS NOTED Drawn / Checked Author / Checker

Sheet Number SE701



- NOTES:
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 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWING AND RELATED DRAWING 27-28 SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO OWNER.
 3. CONTRACTOR TO VERIFY CAMERA FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 4. PRIOR TO PULLING CABLE WIRE, CONTRACTOR TO VERIFY CABLE LENGTHS (SEE NOT TO EXCEED) BY WHEN BROUGHT TO CLOSEST CLOSURE.
 5. ALL DATA CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISES AND NOTES ON THE "AS BUILT".
 7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND AS BUILT SET IN BOTH "E" SIZE HARD COPY (2 SET) AND DIGITAL FORMAT.
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- NOTE: THE BIDDING LOW VOLTAGE CONTRACTOR (LV) IS RESPONSIBLE TO FURNISH INITIAL PROGRAM AND COMMISSION ALL SECURITY AND TELECOM DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION.

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PROJECT:
**HARRISON
RECREATION CENTER-KDG**
270 HARRISON AVE
HARRISON, NY 10528

TITLE:
**SECURITY EQUIPMENT
DETAIL 2
ACCESS DEVICE TYPICALS**

EM AO IT

DESIGNED BY: DRAWN BY: CHECKED BY:

WORK ORDER NO.: DATE: 12/08/2023

S.A. NO.: DRAWING NO.: SE-704

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| 4 | 06/05/2024 | ISSUED FOR BID |
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| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title

**SECURITY
EQUIPMENT DETAIL
2 ACCESS DEVICE
TYPICALS**

Job No. 2020-1005 Date 06/05/24

Scale AS NOTED Drawn / Checked Author Checker

Sheet Number

SE704

ACENES, LLC - IDMA INTELLIGENT DOOR MANAGEMENT ALARM

| DEVICE DETAIL | ELECTRICAL BACKBOX | SPECIFICATIONS |
|---------------|--------------------|---|
| | | <p>Model: INTELLIGENT DOOR MANAGEMENT ALARM (IDMA)</p> <p>Input Voltage: Range of 12-24 VDC</p> <p>Mounting: 2-Gang, min 2 1/2" deep electrical box</p> <p>Terminal strips: 2 x 12 pin fixed terminal strips accept up to 18 AWG wires</p> <p>Alarm sounds:</p> <p>Voltage rating: @95 dB or 105dB</p> <p>Pulsing tones indicate warning alarm</p> <p>Decibel(dB) level is programmable</p> <p>Time Delays:</p> <p>Access delay: Shunts the alarm function for the duration of the delay.</p> <p>Warning delay: Sets the duration of the warning alarm.</p> <p>Alarm automatic reset delay: Sets the duration of an alarm if the automatic reset feature is enabled.</p> <p>Operational Functions: The IDMA display will show various device status via the LCD display.</p> |

WIRING DIAGRAM

WIRING SHOWN BELOW ARE FACTORY DEFAULTS FOR ACCESS CONTROL INTERFACE. FOR FURTHER INFORMATION AND TERMINATION SEE IDMA-SWH INTERFACE SAMPLE DRAWING

CAUTION: DO NOT MIX THE 5333-DC GREEN WIRES BETWEEN IN1 AND IN2

CONNECTIVITY:
- VIA DRY CONTACTS
- BLUETOOTH
- ETHERNET
- WI-FI
- OSDP
- AUDIO (optional)

Symbol on Dwgs: DTL: A06

| LENEL - EOL VALUES | | | | |
|--------------------|----------------|-----------------------|--|-------|
| STATE | UNPLUGGED OHMS | PLUGGED TO BOARD OHMS | | VOLTS |
| SECURE | 1,000 | 650 | | 1.9V |
| ALARM | 2,000 | 950 | | 2.9V |
| CUT | INFINITY | 1250 | | 5V |
| SHORT | UP TO 50 | UP TO 50 | | <1V |

1. ALLOW FOR 10% TOLERANCE
2. OTHER VALUES = TROUBLE

| IDMA TERMINATION MATRIX | | | | |
|-------------------------|---------------|------|---------|-------------------|
| CLOSET | BOX | PORT | CAD | LOCATION |
| IDF - 1 | ENCLOSURE - 1 | 1 | 1-E1-01 | DOORS 113G & 113H |
| | | 2 | 1-E1-02 | Door 123B |
| | | 3 | SPARE | |
| | | 4 | SPARE | |
| | | 5 | SPARE | |
| | | 6 | SPARE | |
| | | 7 | SPARE | |
| | | 8 | SPARE | |

MATRIX TABLE SHOWN FOR REFERENCE ONLY.
INSTALLATION CONTRACTOR TO PROVIDE HIS OWN MATRIX.

IDMA TERMINATIONS IDMA DOORS 1-8

INTERNAL WIRING OF THIS CONTROL TERMINATION BOX WILL BE PERFORMED AND DELIVERED BY ITC. CONTRACTOR TO TERMINATE 8 CONDUCTOR [5465-EXD] CABLE AS PER SHOWN COLOR CODED TERMINALS

NOTE: IDMA's 9-16 ARE TERMINATED IN IDMA TERMINATION BOX #2 (not shown) IN DEVICE POSITIONS 1-8. SEE SE-300 CLOSET DETAILS FOR MOUNTING OF BOXES 1&2. SEE IDMA/DMA TERMINATION MATRIX THIS PAGE

NOTE:
CONTRACTOR TO BUILD IDMA TERMINATION PANEL AS SHOWN.
WIRE SPlicing AND PARALLEL POWER DISTRIBUTION TO MULTIPLE DEVICES ARE NOT ALLOWED

- NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE INBETWEEN DRAWINGS SET AND RELATED DRAWINGS BY THE SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN-KEY SOLUTION TO OWNER.
 3. CONTRACTOR TO VERIFY CAMERA FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 4. PRIOR TO PULLING CAT 6 WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 5. ALL CAT 6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED REE AND NOTE ON THE AS BUILT.
 7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND 'AS BUILT' SET IN BOTH 'E' SET HARD COPY (PDF) AND DIGITAL FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
 9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

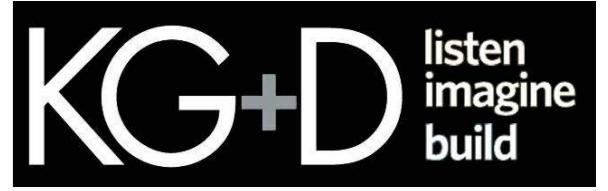
NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION.

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270 Harrison Avenue
Harrison, NY 10528



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155 Lafayette Ave
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PROJECT:
HARRISON
RECREATION CENTER-KDG
270 HARRISON AVE
HARRISON, NY 10528

TITLE:
SECURITY EQUIPMENT
DETAIL 3
IDMA DEVICE TYPICALS

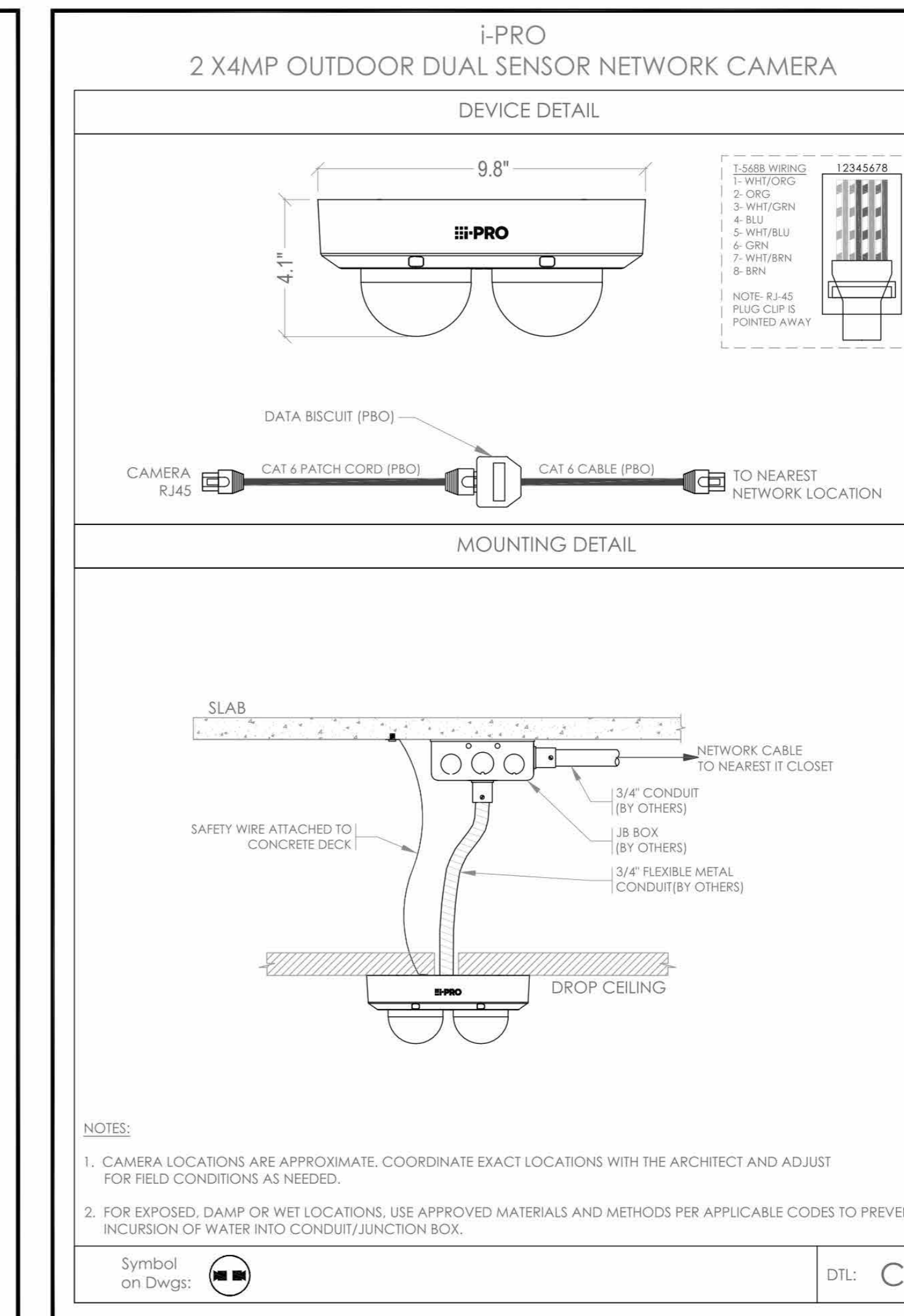
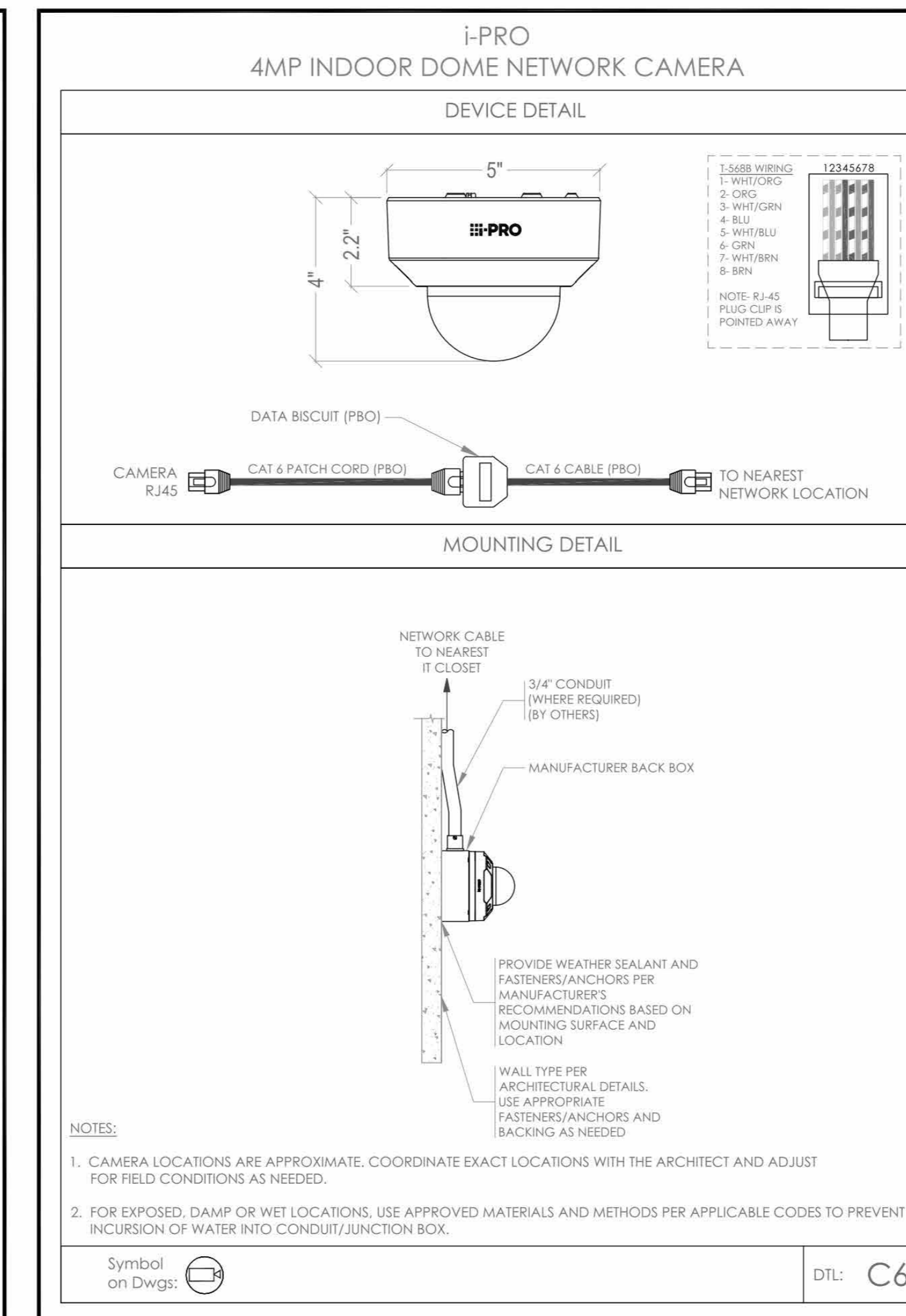
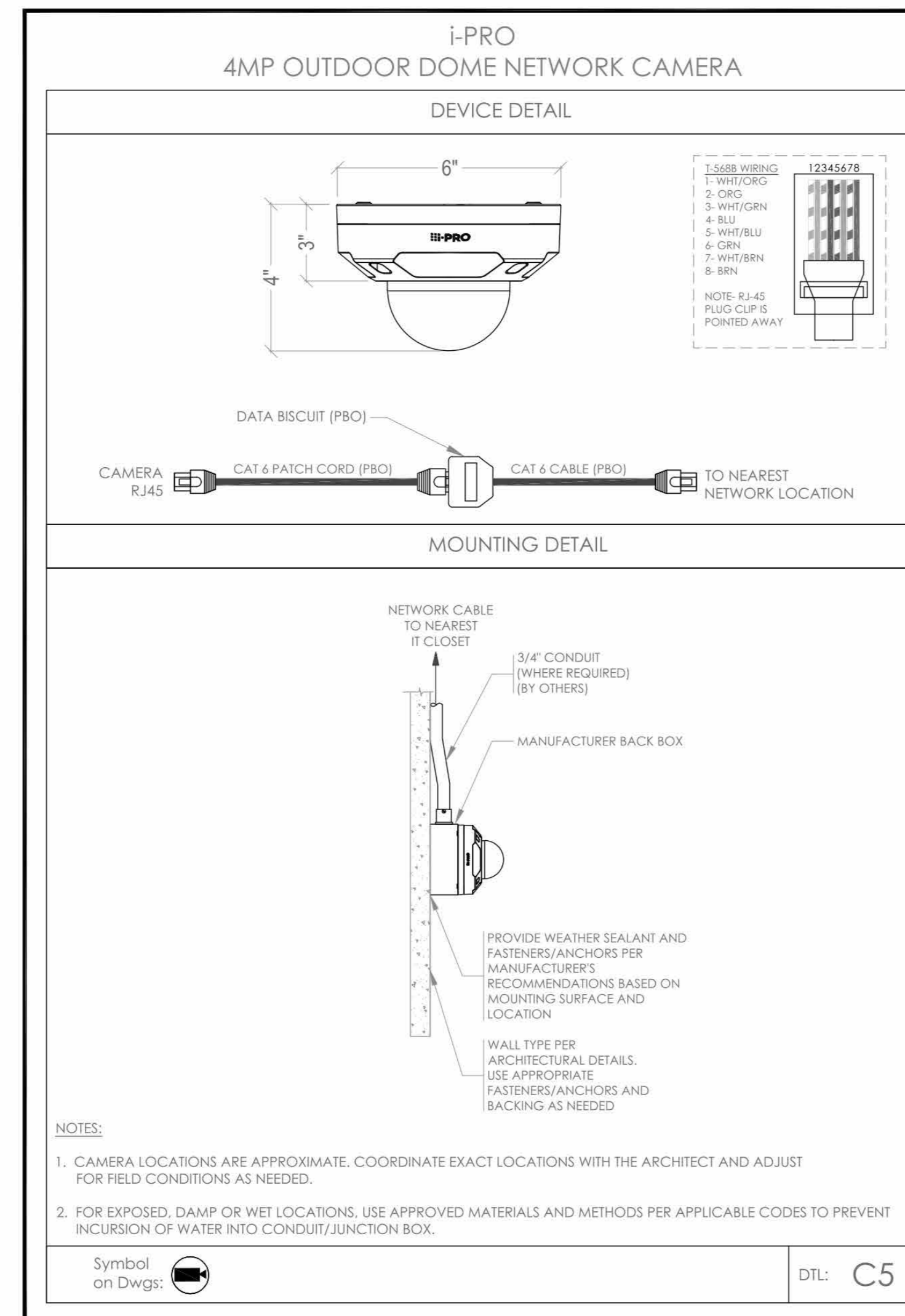
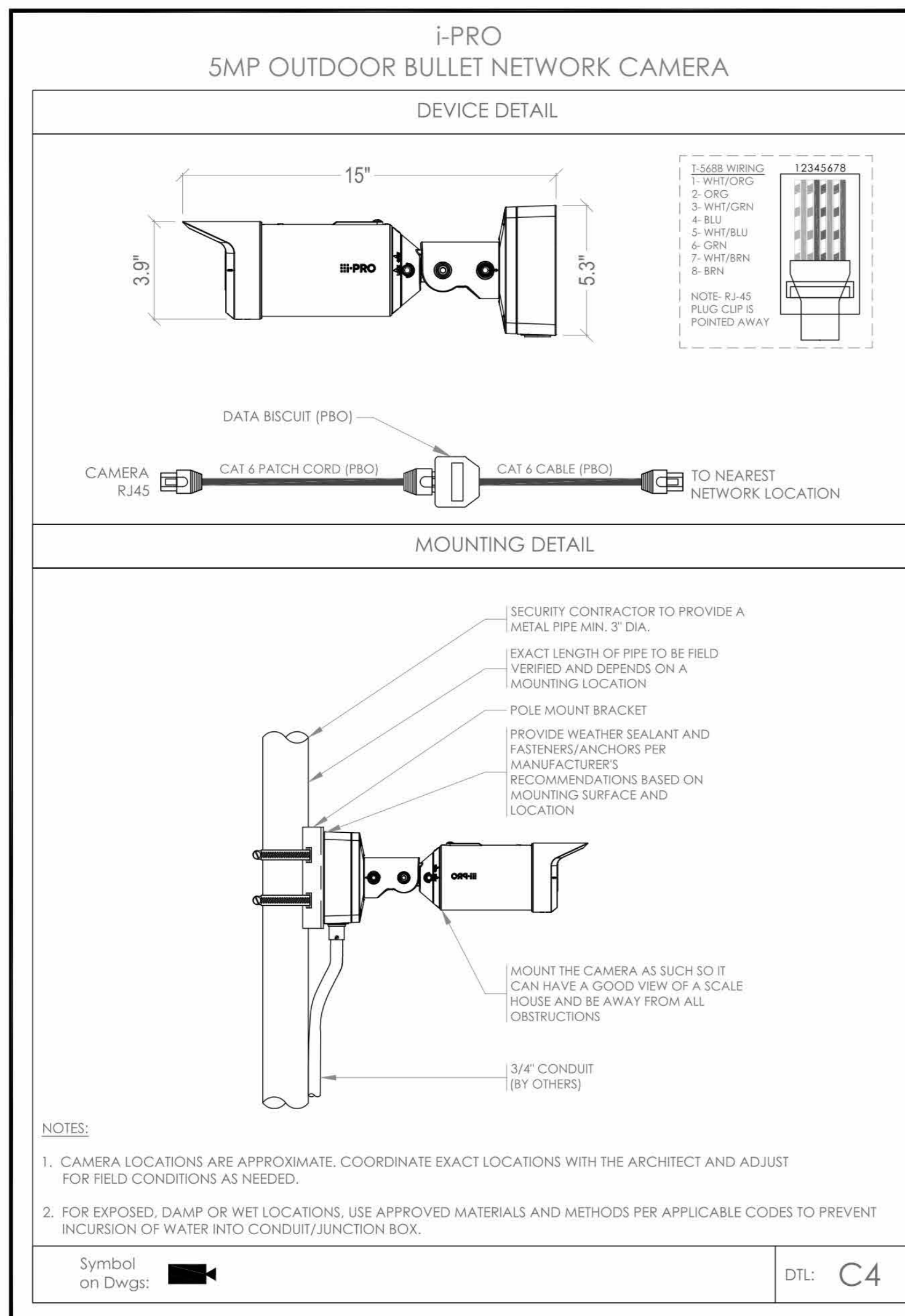
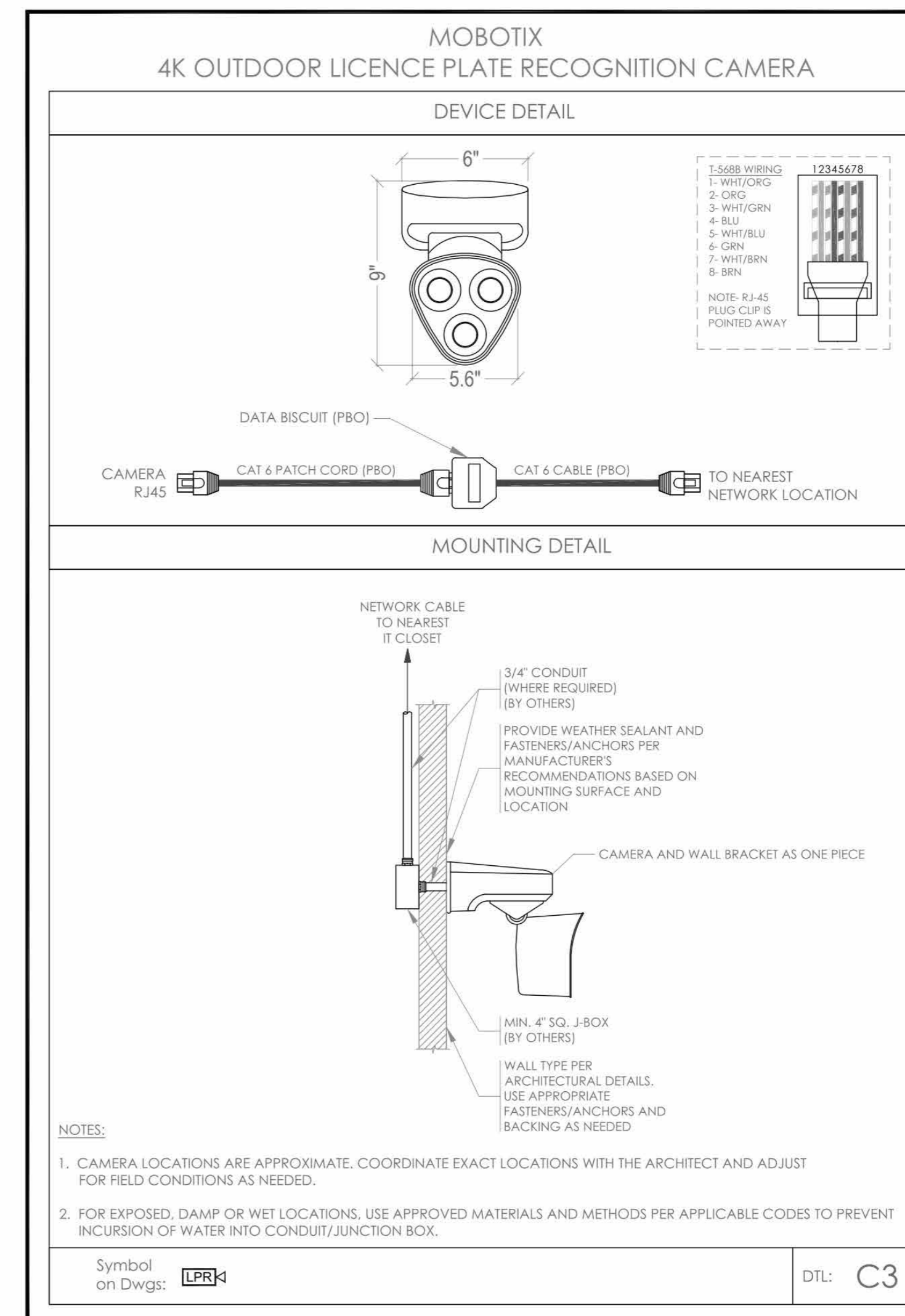
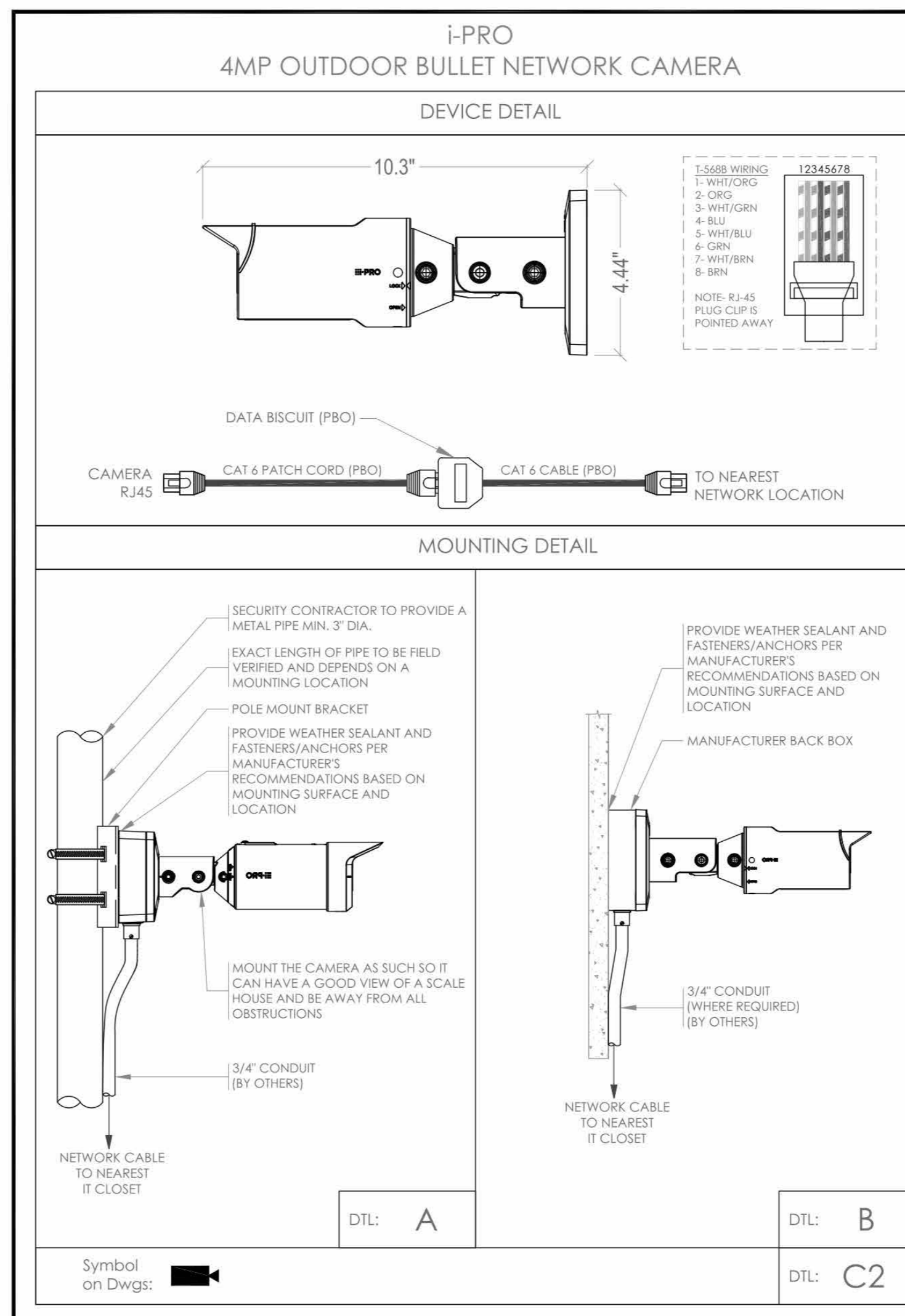
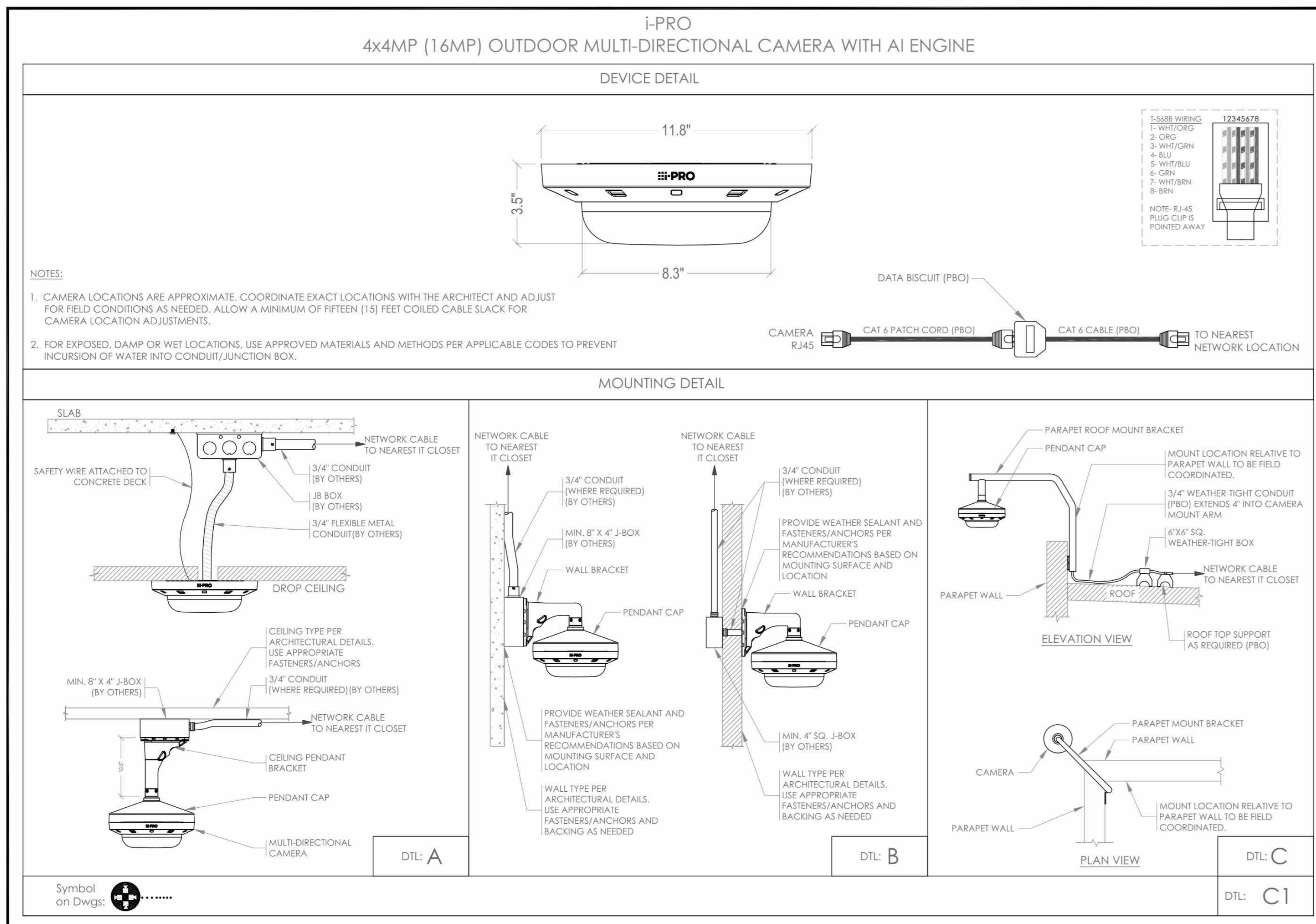
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DESIGNED BY DRAWN BY CHECKED BY
WORK ORDER NO: DATE 12/08/2023
SCALE:
S.A. NO: DRAWING NO: SE-705

| No. | Date | Issue |
|-----|------------|------------------------|
| 4 | 06/05/2024 | ISSUED FOR BID |
| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

Sheet Title
**SECURITY EQUIPMENT
DETAIL 3 IDMA
DEVICE TYPICALS**

Job No. 2020-1005 Date 06/05/24
Scale AS NOTED Drawn / Checked Author Checker

Sheet Number
SE705



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9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE: THE WIRING LOW VOLTAGE CONTRACTOR (LVCC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN KEY SOLUTION.

ISSUED FOR:

| DATE | COMMENTS |
|------------|----------------|
| 06/05/2024 | ISSUED FOR BID |



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270 HARRISON AVE
HARRISON, NY 10528

| DESIGNED BY | DRAWN BY | CHECKED BY |
|----------------|-------------|------------|
| EM | AO | IT |
| WORK ORDER NO. | DATE | 12/08/2023 |
| S.A. NO. | DRAWING NO. | SE-706 |

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| 3 | 01/16/2024 | ISSUED FOR PERMIT |
| 2 | 06/01/2020 | DESIGN DEVELOPMENT |
| 1 | 03/31/2020 | 50% DESIGN DEVELOPMENT |

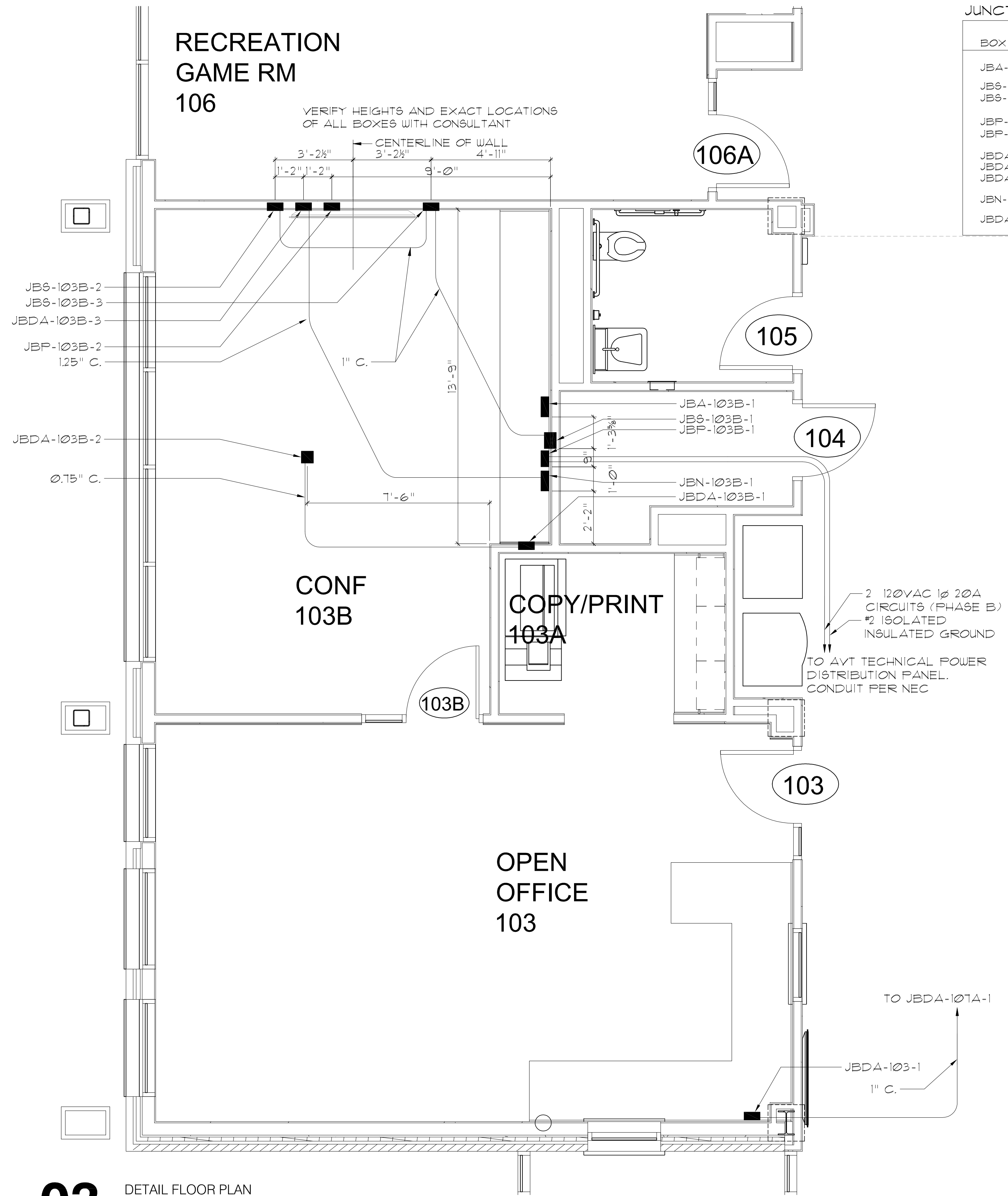
Professional Seal

ITG
ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603

SECURITY EQUIPMENT
DETAIL - 5
CCTV TYPICALS

Job No. 2020-1005 Date 06/05/24
Scale AS NOTED Drawn / Checked Author Checker

RECREATION GAME RM 106



JUNCTION BOX SCHEDULE - CONFERENCE ROOM

| BOX | WIDTH, IN. | HEIGHT, IN. | DEPTH, IN. | MTG HGT | MTG STYLE | MFR | MODEL | NOTES |
|---------------|------------|-------------|------------|---------|---------------------|--------------|---------------|-----------------|
| JBA-103B-1 | 10" | 10" | 4" | 14" | SURFACE | HOFFMAN | A-1010SC | |
| JBS-103B-1 | 8" | 10" | 6" | 14" | SEMI-RECESSED FLUSH | HOFFMAN RACO | A-10086SC 696 | |
| JBS-103B-2, 3 | 2 GANG | - | - | - | - | - | - | |
| JBP-103B-1 | 8" | 10" | 4" | 10" | SEMI-RECESSED FLUSH | HOFFMAN RACO | A-10086SC 696 | VERIFY LOCATION |
| JBP-103B-2 | 2 GANG | - | - | - | - | - | - | |
| JBD A-103B-1 | 8" | 10" | 6" | 14" | SEMI-RECESSED FLUSH | HOFFMAN RACO | A-10086SC 696 | |
| JBD A-103B-2 | 2 GANG | - | - | - | ABOVE CLG | - | - | |
| JBD A-103B-3 | 2 GANG | - | - | - | - | - | - | |
| JBN-103B-1 | 10" | 10" | 4" | 14" | SURFACE | HOFFMAN | A-1010SC | |
| JBD A-103-1 | 3 GANG | - | 3.75" | 14" | FLUSH | RACO | 69T | |

JUNCTION BOX SCHEDULE AV205A

| BOX | WIDTH, IN. | HEIGHT, IN. | DEPTH, IN. | (BOT AFF) MTG HGT | MTG STYLE | MFR | MODEL | NOTES |
|--------------|------------|-------------|------------|-------------------|-----------|---------|-----------|--------------------------|
| JBP-205A-1 | 10" | 10" | 6" | 14" | SURFACE | HOFFMAN | A-1010SC | |
| JBA-205A-1 | 12" | 16" | 6" | 11-8" | FRAME | HOFFMAN | C-SD16166 | NOTE 1. DOOR FACES NORTH |
| JBD A-205A-1 | 12" | 16" | 6" | 11-8" | FRAME | HOFFMAN | C-SD16126 | NOTE 1. DOOR FACES NORTH |
| JBN-205A-1 | 12" | 16" | 6" | 11-8" | FRAME | HOFFMAN | C-SD16166 | NOTE 1. DOOR FACES NORTH |
| JBS-205A-1 | 16" | 16" | 6" | 11-8" | FRAME | HOFFMAN | C-SD16166 | NOTE 1. DOOR FACES NORTH |

CONF 103B

COPY/PRINT 103A

OPEN OFFICE 103

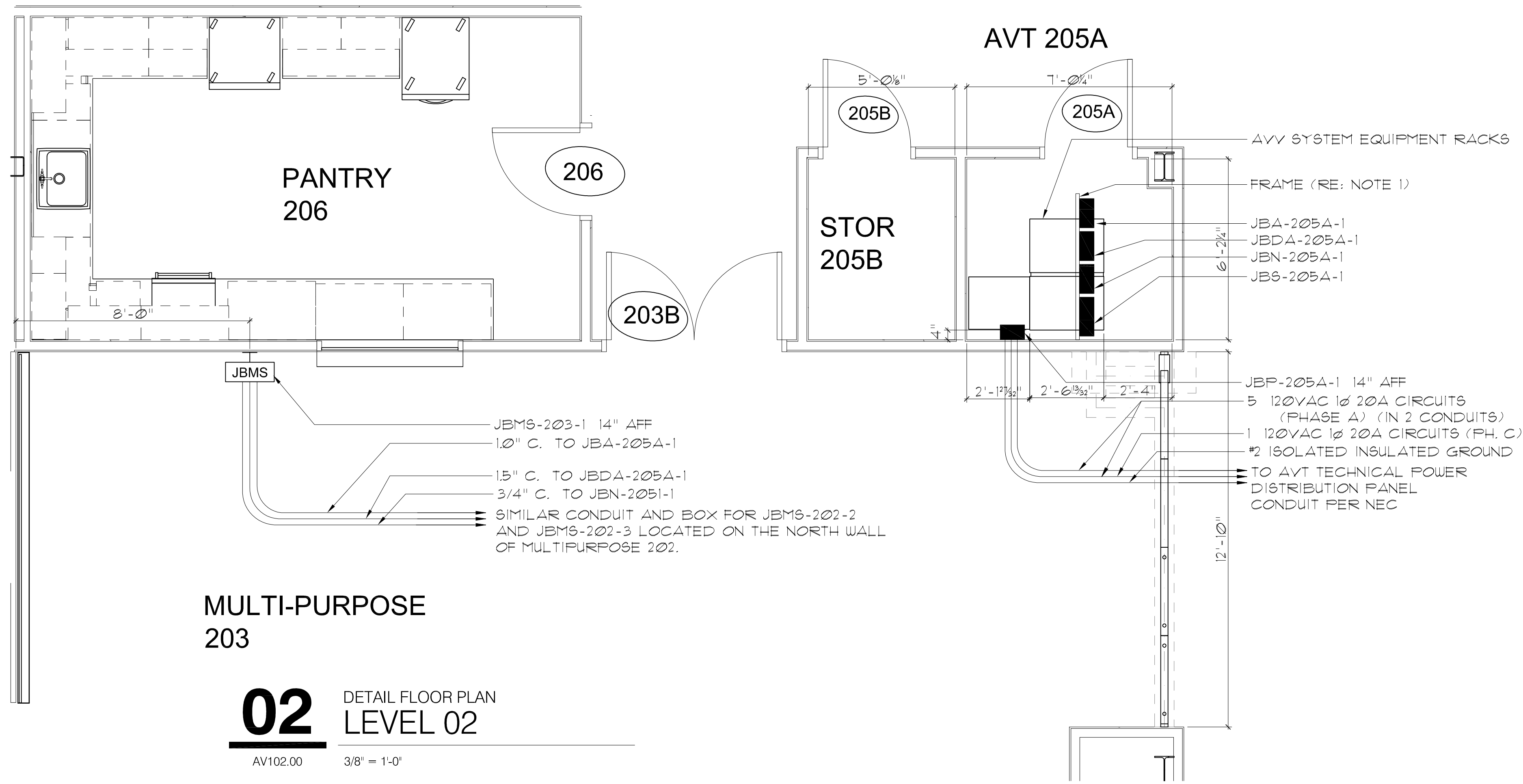
PANTRY 206

STOR 205B

MULTI-PURPOSE 203

AVT 205A

02 DETAIL FLOOR PLAN LEVEL 02



03 DETAIL FLOOR PLAN LEVEL 01

NOTES - GENERAL

- INSTALL WOOD OR TREX INSULATING BASE UNDER AUDIO/VIDEO/TELEVISION AND NETWORK EQUIPMENT RACKS, EXCEPT FOR THOSE IN MILLWORK SUCH AS CONF 103B. REFER TO SPECIFICATIONS.
- IF ANY WALL MOUNTED BACKBOARDS ARE SHOWN, FURNISH BIRCH VENEER HARDWOOD PLYWOOD, FIRE RATED, PRIMED AND PAINTED TWO COATS FLAT GREY ENAMEL PAINT. INSTALL USING STAINLESS STEEL HARDWARE.
- ALL HARDWARE IN THE AV/T SYSTEM EMPLOYED FOR ANY PURPOSE SHALL BE STAINLESS STEEL.
- VERIFY WITH AND OBTAIN THE APPROVAL OF THE CONSULTANT FOR ALL CONDUIT ROUTING.
- JUNCTION BOX MOUNTING HEIGHTS ARE TO THE BOTTOM OF THE BOX, UNLESS OTHERWISE NOTED.

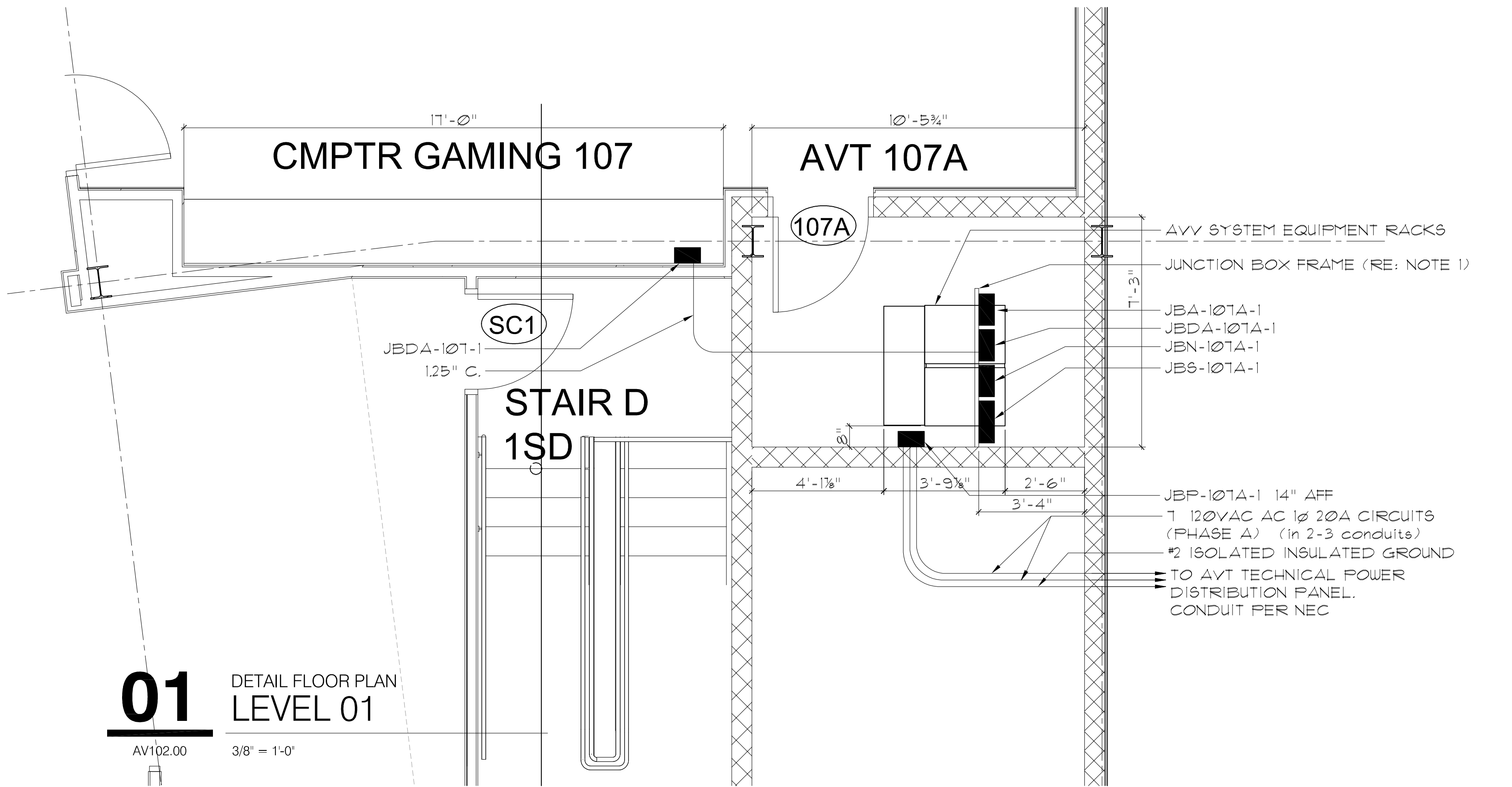
NOTES - JUNCTION BOXES

- INSTALL BOX ON FRAME OF UNISTRUT OR KINDORF CONSTRUCTION CHANNEL SUPPORTED TO STRUCTURE, FASTENED TO SIDES AND BACK OF BOX ONLY. LEAVE TOP AND BOTTOM OF BOX CLEAR FOR BUILDING CONDUIT ENTRY AND WATERTIGHT FLEXIBLE CONDUIT TO RACKS, RESPECTIVELY. IN SOME CASES, SUCH AS AC POWER BOXES, CONDUITS COME INTO THE SIDE OF THE BOX AS WELL.
- INSTALL BOX ON FRAME OF UNISTRUT OR KINDORF CONSTRUCTION CHANNEL.
- CUSTOM BOX WITH THREE FULLY ENCLOSED SECTIONS.
- SIZE ALL AC POWER CONDUIT SHOWN ON THIS DRAWING ACCORDING TO THE NEC AND THE ELECTRICAL SPECIFICATIONS, WITH SPARE CAPACITY IN ADDITION. PROPOSE SIZES FOR REVIEW ON THE SUBMITTAL DRAWINGS.
- VERIFY WITH ARCHITECT.
- VERIFY WITH CONSULTANT.
- SEE AVV 104 FOR LEGENDS AND NOTES PERTAINING TO TELEVISION DISTRIBUTION SYSTEM

JUNCTION BOX SCHEDULE AV107A

| BOX | WIDTH, IN. | HEIGHT, IN. | DEPTH, IN. | (BOT AFF) MTG HGT | MTG STYLE | MFR | MODEL | NOTES |
|--------------|------------|-------------|------------|-------------------|--------------------|---------|-----------|--------------------------|
| JBP-107A-1 | 10" | 10" | 6" | 14" | SURFACE | HOFFMAN | A-1010SC | |
| JBA-107A-1 | 12" | 16" | 6" | 11-8" | FRAME | HOFFMAN | C-SD16166 | NOTE 1. DOOR FACES NORTH |
| JBD A-107A-1 | 12" | 16" | 6" | 11-8" | FRAME | HOFFMAN | C-SD16126 | NOTE 1. DOOR FACES NORTH |
| JBN-107A-1 | 12" | 16" | 6" | 11-8" | FRAME | HOFFMAN | C-SD16166 | NOTE 1. DOOR FACES NORTH |
| JBS-107A-1 | 16" | 16" | 6" | 11-8" | FRAME | HOFFMAN | C-SD16166 | NOTE 1. DOOR FACES NORTH |
| JBD A-107-1 | 16" | 10" | 6" | 14" | SURFACE IN CABINET | HOFFMAN | C-SD16106 | NOTE 1. DOOR FACES WEST |

01 DETAIL FLOOR PLAN LEVEL 01



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Professional Seal

| No. | Date | Issue |
|-----|------------|----------------|
| 2 | 08/05/2024 | Issued for Bid |
| 1 | 02/14/2024 | Progress |

AVT System Conduit System Plan Details

| Job No. | Date |
|-----------|----------|
| 2020-1005 | 02/06/24 |

| Scale | Drawn / Checked | Author / Checker |
|----------|-----------------|------------------|
| AS NOTED | | |

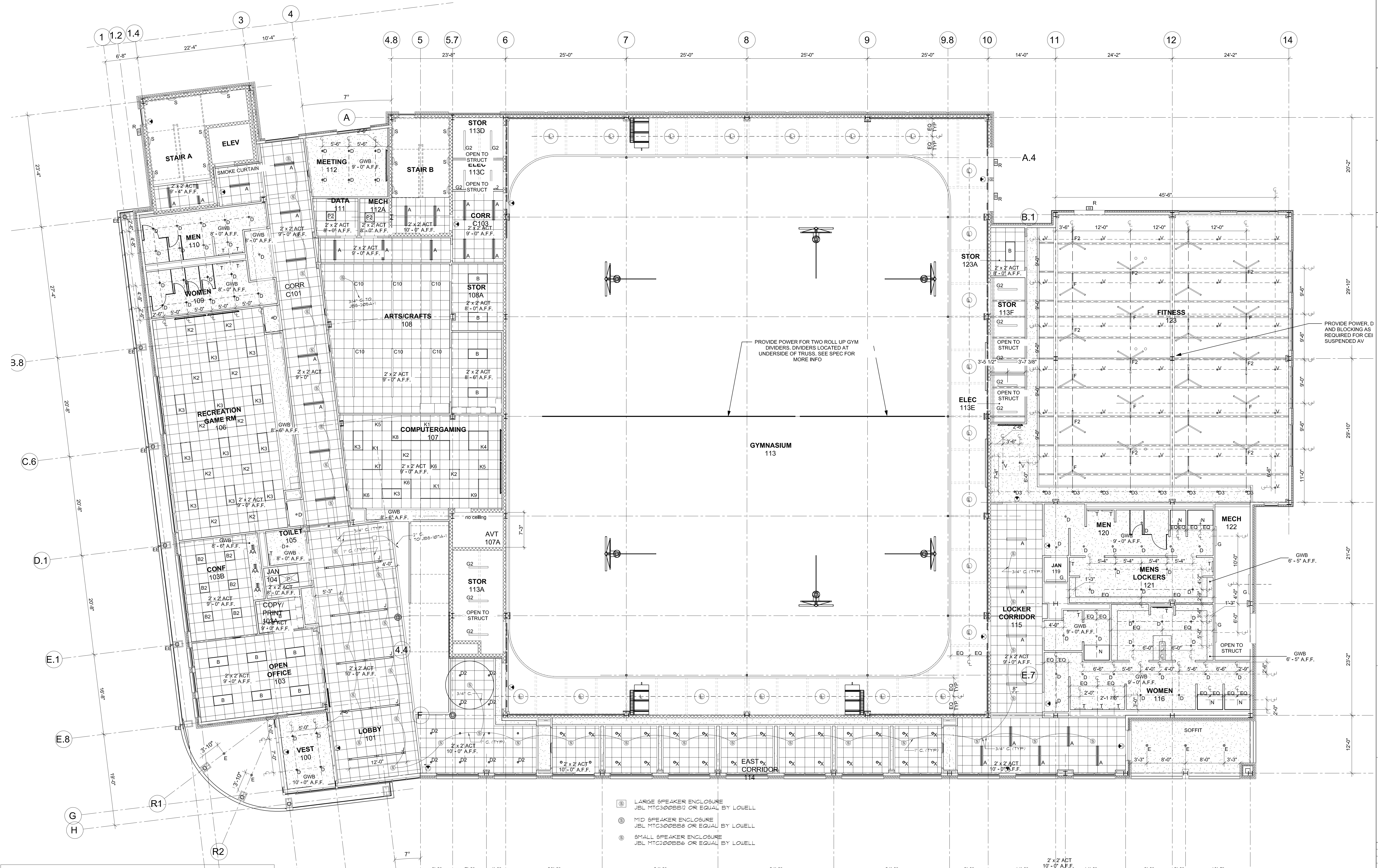
AVV102

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270 Harrison Avenue
Harrison, NY 10528

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285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
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CONSTRUCTION DOCUMENTS



NOTES - GENERAL

1. SIZE CONDUIT AS SHOWN WHERE SIZE IS NOT INDICATED CONDUIT SHALL BE 3/4". ALL INTERIOR CONDUIT WHAT'LL BE EXT UNLESS OTHERWISE NOTED.
2. IN SUSPENDED CEILING, SPEAKER LOCATIONS ARE DETERMINED IN RELATION TO THE CEILING TILE GRID AS DESIGNED BY THE ARCHITECT. IF ANY GRIDS ARE PROPOSED TO BE INSTALLED BY THE CONTRACTOR TO DIFFERENT DIMENSIONS AND/OR LOCATIONS, CEILING SPEAKER LOCATIONS MUST BE PROPOSED ON DRAWINGS AND APPROVED BY THE CONSULTANT.
3. ALL HARDWARE IN THE AV/T SYSTEM EMPLOYED FOR ANY PURPOSE SHALL BE STAINLESS STEEL.
4. VERIFY WITH AND OBTAIN THE APPROVAL OF THE CONSULTANT FOR ALL CONDUIT ROUTING.
5. FURNISH AND INSTALL ALL SPEAKER ENCLOSURE ACCESSORIES AND ASSOCIATED PARTS SUCH AS PENDANTS, BRACKETS, ETC. NEEDED FOR A COMPLETE, SECURE, AND SAFE INSTALLATION.

- Ⓢ LARGE SPEAKER ENCLOSURE
JBL MTC300BB2 OR EQUAL BY LOWELL
- Ⓢ MID SPEAKER ENCLOSURE
JBL MTC300BB3 OR EQUAL BY LOWELL
- Ⓢ SMALL SPEAKER ENCLOSURE
JBL MTC100BB3 OR EQUAL BY LOWELL

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| No. | Date | Issue |
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| 2 | 06/05/2024 | Issued for Bid |
| 1 | 02/14/2024 | Progress |

Sheet Title
**AVV System
Conduit
1st FLOOR RCP**

| Job No. | Date |
|-----------|----------|
| 2020-1005 | 02/06/24 |

| Scale | Drawn / Checked | Author / Checker |
|----------|-----------------|------------------|
| AS NOTED | | |

Sheet Number
AVV103

01 REFLECTED CEILING PLAN
LEVEL 01
AV103.00 1/8" = 1'-0"

**HARRISON
RECREATION &
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CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

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CONSTRUCTION DOCUMENTS



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4. VERIFY WITH AND OBTAIN THE APPROVAL OF THE CONSULTANT FOR ALL CONDUIT ROUTING.
5. FURNISH AND INSTALL ALL SPEAKER ENCLOSURE ACCESSORIES AND ASSOCIATED PARTS SUCH AS PENDANTS, BRACKETS, ETC. NEEDED FOR A COMPLETE, SECURE, AND SAFE INSTALLATION.

- ⑥ LARGE SPEAKER ENCLOSURE
JBL MTC300BB12 OR EQUAL BY LOUELL
- ⑤ MID SPEAKER ENCLOSURE
JBL MTC300BB8 OR EQUAL BY LOUELL
- ④ SMALL SPEAKER ENCLOSURE
JBL MTC200BB6 OR EQUAL BY LOUELL

01 REFLECTED CEILING PLAN
LEVEL 02
AV104.00 1/8" = 1'-0"

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| 2 | 06/05/2024 | Issued for Bid | |
| 1 | 02/14/2024 | Progress | |

Sheet Title
**AVV System
Conduit
2nd FLOOR RCP**

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|----------------------|-----------------------------------|
| Job No. 2020-1005 | Date 02/06/24 |
| Scale AS NOTED | Drawn / Checked Author Checker |

Sheet Number
AVV104