

SPECTRUM DESIGN
architects | engineers

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ROANOKE, VA 24011-2104

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PROJECT NUMBER: 12138

VIRGINIA STATE PROJECT
CODE # EN05-128-325, C502
TEA-5128 (319)
VDOT UPC # 103592

TAX MAP #4039003



CITY CONSTRUCTION PROCEDURE REQUIREMENTS

1. RIGHT-OF-WAY EXCAVATION PERMIT – PRIOR TO THE COMMENCEMENT OF ANY DIGGING, ALTERATION OR CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY (STREETS, ALLEYS, PUBLIC EASEMENTS), A RIGHT-OF-WAY EXCAVATION PERMIT SHALL BE APPLIED FOR AND OBTAINED BY THE CONTRACTOR FROM THE CITY OF ROANOKE.
2. LAND DISTURBANCE PERMIT – AN APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR ANY BORROW/FILL SITES ASSOCIATED WITH THE PROJECT MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A LAND DISTURBANCE PERMIT.
3. PLANS AND PERMITS – A COPY OF THE PLANS AS APPROVED BY THE CITY (SIGNED BY THE PROPER CITY OFFICIALS) AND ALL PERMITS ISSUED BY THE CITY SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES OF ONGOING CONSTRUCTION.
4. LOCATION OF UTILITIES – THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
5. CONSTRUCTION ENTRANCE – THE CONTRACTOR SHALL INSTALL AN ADEQUATE CONSTRUCTION ENTRANCE FOR ALL CONSTRUCTION RELATED EGRESS FROM THE SITE. SIZE AND COMPOSITION OF CONSTRUCTION ENTRANCE SHALL BE AS SHOWN ON THE PLANS.
6. STREETS TO REMAIN CLEAN – IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT THE PUBLIC STREET ADJACENT TO THE CONSTRUCTION ENTRANCE REMAINS FREE OF MUD, DIRT, DUST, AND/OR ANY TYPE OF CONSTRUCTION MATERIALS OR LITTER AT ALL TIMES.
7. BARRICADES/DITCHES – THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL EXCAVATED DITCHES AND SHALL FURNISH AND ENSURE THAT ALL BARRICADES PROPER AND NECESSARY FOR THE SAFETY OF THE PUBLIC ARE IN PLACE.
8. SEWER AND PAVEMENT REPLACEMENT – CONSTRUCTION OF SANITARY SEWERS AND THE REPLACEMENT OF PAVEMENT SHALL BE IN ACCORDANCE WITH APPROVED STANDARDS AND SPECIFICATIONS OF THE CITY OF ROANOKE AND THE WESTERN VIRGINIA WATER AUTHORITY
9. APPROVED PLANS/CONSTRUCTION CHANGES – ANY CHANGE OR VARIATION FROM CONSTRUCTION DESIGN AS SHOWN ON THE OFFICIALLY APPROVED PLANS SHALL BE APPROVED BY THE EROSION AND SEDIMENT CONTROL AGENT PRIOR TO SAID CHANGES OR VARIATION IN CONSTRUCTION BEING MADE.
10. FINAL ACCEPTANCE/CITY – THE OWNER OR DEVELOPER SHALL FURNISH THE CITY OF ROANOKE'S PLANNING BUILDING AND DEVELOPMENT DEPARTMENT WITH A FIELD SURVEYED FINAL CORRECT SET OF AS-BUILT PLANS OF THE NEWLY CONSTRUCTED STORM RAIN AND/OR STORMWATER MANAGEMENT FACILITIES PRIOR TO FINAL ACCEPTANCE AND ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE CITY. AS-BUILT PLANS SHALL BE PROVIDED IN THE STATE PLANE VIRGINIA SOUTH COORDINATE SYSTEM, NAD 1983, FIPS 4502 FEET, US SURVEY FEET, DATUM NA 83, IN THE FORM OF 1 PAPER COPY AND 1 DIGITAL AUTOCAD FILE.

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C501 DETAILS
C502 DETAILS
C503 ESC NARRATIVE
C504 ESC DETAILS

LANDSCAPE

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L101 PLANTING PLAN
L102 PLANTING PLAN: ADDITIVE BID ITEM #3
L501 DETAILS

LIFE SAFETY PLAN

LS-1 LIFE SAFETY PLAN

ARCHITECTURAL

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A1.2 EXISTING INTERIOR ELEVATIONS
A2.1 EXISTING CONDITIONS
A2.2 FLOOR PLAN - PASSENGER BUILDING
A2.3 FLOOR PLAN - BAGGAGE AND EXPRESS BUILDING

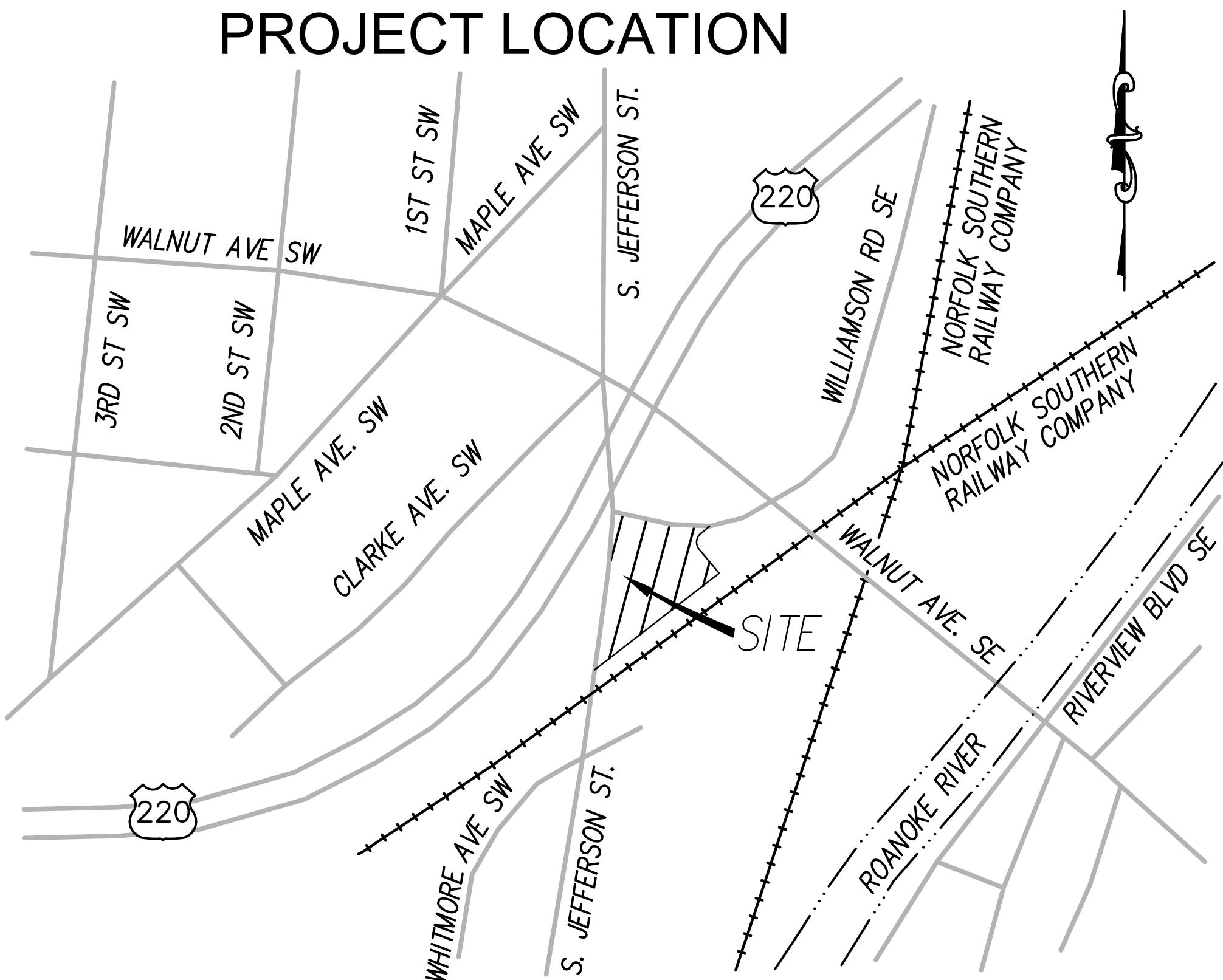
VIRGINIAN RAILWAY PASSENGER STATION

PHASE II - RESTORATION

SITE ADDRESS:
1402 JEFFERSON ST. SE
ROANOKE, VA

CONSTRUCTION DOCUMENTS
31 MAY 2015

PROJECT LOCATION



- | | |
|-------------------|---|
| A3.1 | EXTERIOR ELEVATIONS |
| A3.2 | EXTERIOR ELEVATIONS |
| A3.3 | EXTERIOR ELEVATIONS |
| A3.4 | DORMER DETAILS |
| A3.5 | EXTERIOR DETAILS |
| A3.6 | ENTRANCE DETAILS |
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| A4.2 | ENLARGED TOILET PLANS |
| A5.1 | INTERIOR ELEVATIONS |
| A5.2 | INTERIOR ELEVATIONS |
| A5.3 | TICKET OFFICE ELEVATIONS |
| A5.4 | TICKET OFFICE ELEVATIONS |
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| A8.2 | DOOR AND WINDOW SCHEDULE |
| A8.3 | DOOR ELEVATIONS |
| A8.4 | WINDOW DETAILS/ELEVATIONS |
| A8.5 | PLASTER DETAILS |
| MECHANICAL | |
| M001 | MECHANICAL LEGEND, SCHEDULES, DETAILS, AND CONTROLS |
| M101 | MECHANICAL FLOOR PLANS |
| M102 | MECHANICAL FLOOR PLANS |
| PLUMBING | |
| P001 | PLUMBING - SPECIFICATIONS |
| P101 | PLUMBING - EQUIPMENT SCHEDULE, NOTES & FLOOR PLANS |
| ELECTRICAL | |
| E001 | ELECTRICAL LEGEND, FIXTURE SCHEDULE & DETAILS |
| E002 | ELECTRICAL RISER DIAGRAM & PANELBOARDS |
| E101 | PASSENGER BUILDING ELECTRICAL PLAN |
| E102 | BAGGAGE & EXPRESS BUILDING ELECTRICAL PLAN |
| E201 | ELECTRICAL SITE PLAN |
| E301 | ELECTRICAL SITE PLAN PHOTOMETRICS |

C1 (DEED)
A = 90'00"53"
R = 40.00'
T = 40.01' (FIELD) 40.00' (DEED)
L = 62.84'
BRG. N 53°19'33" E
CHD. 56.58'

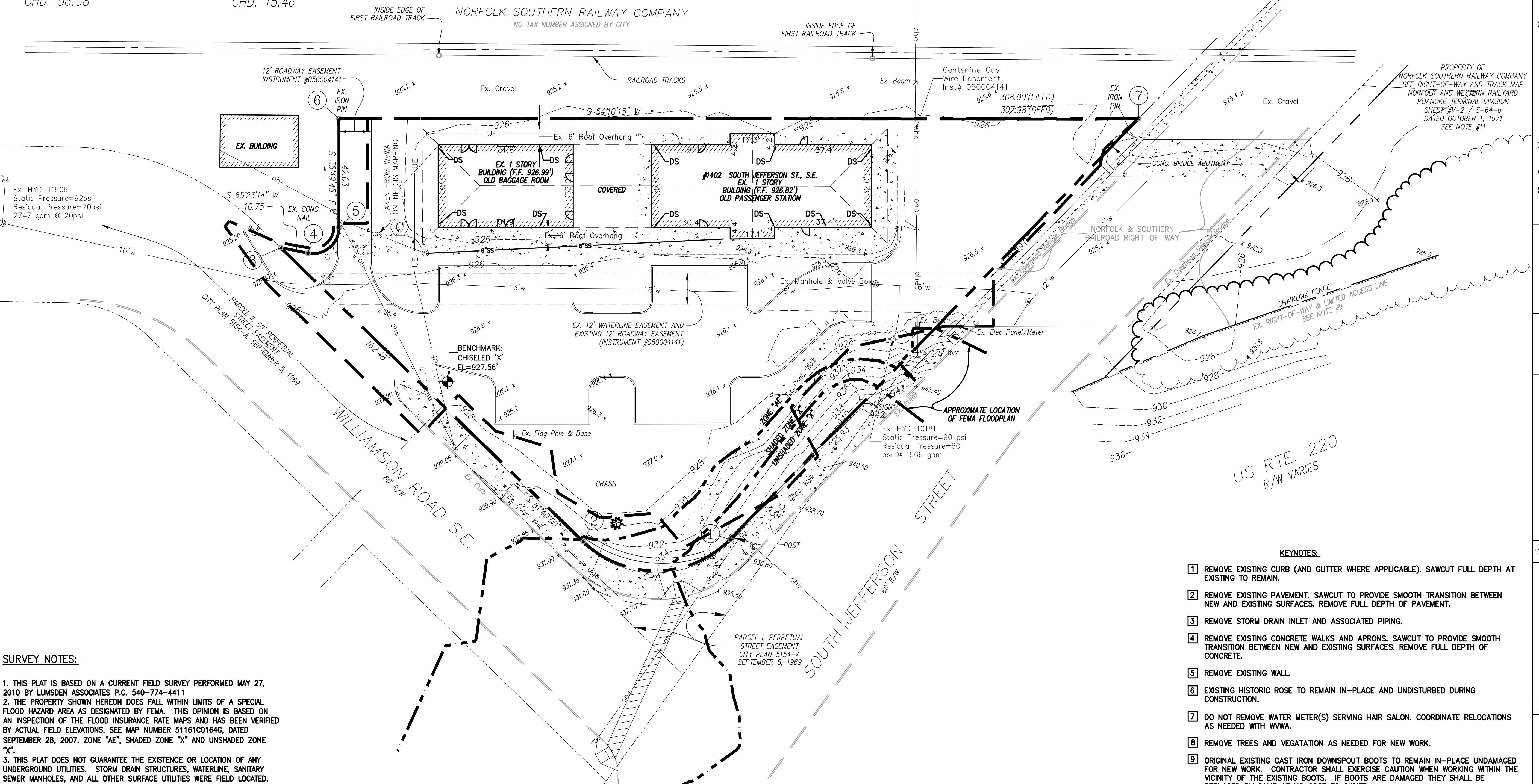
C2 (DEED)
A = 101'12"59"
R = 10.00'
T = 12.18'
L = 17.67'
BRG. S 14°46'44" W
CHD. 15.46'

BOUNDARY COORDINATES		
CORNER	NORTHING	EASTING
L1	4757.91799	968.58368
L2	4981.47065	1001.27065
L3	5015.26121	1046.64708
L4	4991.71282	1207.41058
L5	4987.23470	1197.63532
L6	4972.28957	1193.69251
L7	4938.21056	1218.29745

①
SDI
TOP OF MANHOLE LID = 926.28'
INV. OF 12" RCP = 923.31'
DIRECTION OF 12" RCP APPROXIMATE

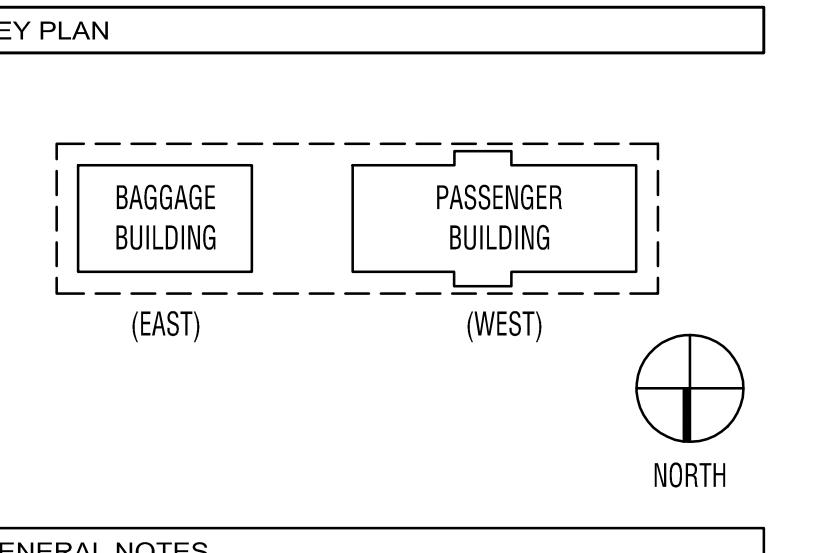
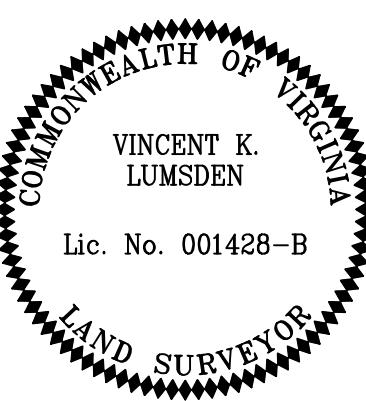
②
SEWER MANHOLE
TOP OF MANHOLE = 925.46'
INV. IN = 920.16'
INV. LATERAL = 921.92'
INV. OUT = 920.08'

MB 1, PG. 3/2A
MERIDIAN OF
M.B. 1, PG. 3/2A



SURVEY NOTES:

1. THIS PLAT IS BASED ON A CURRENT FIELD SURVEY PERFORMED MAY 27, 2010 BY LUMSDEN ASSOCIATES P.C. 540-774-4411
2. THE PROPERTY SHOWN HEREON DOES FALL WITHIN LIMITS OF A SPECIAL FLOOD HAZARD AREA AS DESIGNATED BY FEMA. THIS OPINION IS BASED ON AN INSPECTION OF THE FLOOD INSURANCE RATE MAPS AND HAS BEEN VERIFIED BY ACTUAL FIELD ELEVATIONS. SEE MAP NUMBER 51161C0164G, DATED SEPTEMBER 28, 2007. ZONE "AE", SHADED ZONE "X" AND UNSHADDED ZONE "X".
3. THIS PLAT DOES NOT GUARANTEE THE EXISTENCE OR LOCATION OF ANY UNDERGROUND UTILITIES. STORM DRAIN STRUCTURES, WATERLINE, SANITARY SEWER MANHOLES, AND ALL OTHER SURFACE UTILITIES WERE FIELD LOCATED. ALL UNDERGROUND UTILITIES SHOWN HEREON WERE ESTABLISHED USING ABOVE GROUND STRUCTURES, PAINTED MARKINGS MADE UNDER MISS UTILITY TICKET NUMBER A016701290 AND AVAILABLE UTILITY MAPS. ALL UNDERGROUND UTILITY LINES ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO THE START OF ANY CONSTRUCTION.
4. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT AND THEREFORE MAY NOT SHOW ALL EASEMENTS OR ENCUMBRANCES TO THE SUBJECT PROPERTY.
5. CONTOUR INTERVAL = 2' (NAVD 1988)
6. UNDERGROUND PIPE DIAMETERS WERE TAKEN FROM ACTUAL FIELD MEASUREMENTS WHERE ACCESSIBLE TO SURVEY CREWS. IN ALL OTHER CASES, THE DIAMETERS WERE TAKEN FROM AVAILABLE UTILITY MAPS AND/OR UTILITY MARKINGS.
7. FEMA 100 YEAR BASE FLOOD ELEVATION = 930.47, (NAVD 88).
8. LEGAL REFERENCE: INSTRUMENT #050004141 AND M.B. 1, PG. 3424.
9. EX. RIGHT-OF-WAY & LIMITED ACCESS LINE TAKEN FROM VDOT PROJECT #6220-128-104, SHEET 9.
10. STORM DRAIN PIPES ARE APPROXIMATE. THE ACTUAL LOCATION OF PIPES ARE UNKNOWN AND SHOULD BE FIELD VERIFIED PRIOR TO THE START OF ANY CONSTRUCTION.
11. THE PROPERTY OF NORFOLK SOUTHERN RAILWAY COMPANY WEST OF SOUTH JEFFERSON STREET AND SOUTH OF US RTE. 220 IS BASED ON SOUTH JEFFERSON STREET 60' R/W, VDOT PLANS FOR US RTE. 220, 6220-128-104, SHEET 9 AND NORFOLK AND WESTERN RAILYARD ROANOKE TERMINAL DIVISION, SHEET JV-2 / S-64-b, DATED OCTOBER 1, 1971.



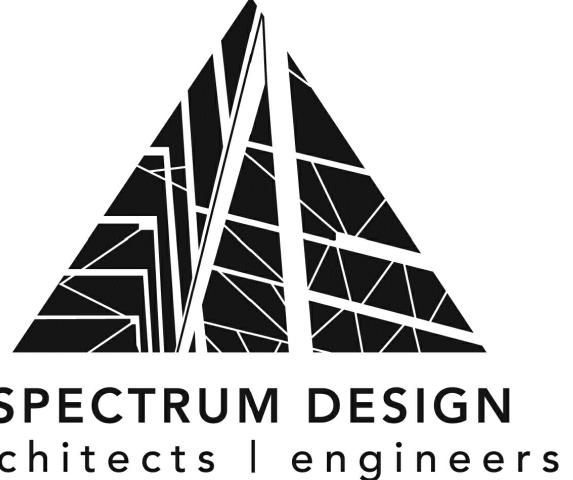
GENERAL NOTES

1. EXISTING TOPOGRAPHICAL AND PLANIMETRIC FEATURES (BUILDINGS, CONCRETE, CURB, ASPHALT AND LANDSCAPING FEATURES) ARE TO BE REMOVED AS DESIGNATED.
2. THE LOCATION OF EXISTING UTILITIES, INCLUDING UNDERGROUND UTILITIES, IS INDICATED ON THE DRAWINGS INSO FAR AS THEIR EXISTENCE AND LOCATION WERE KNOWN AT THE TIME OF THE PREPARATION OF THE DRAWINGS. HOWEVER, NOTHING IN THESE CONTRACT DOCUMENTS SHALL BE CONSTRUED AS A GUARANTEE THAT SUCH UTILITIES ARE IN THE LOCATION INDICATED OR THAT THEY ACTUALLY EXIST, OR THAT OTHER UTILITIES ARE NOT WITHIN THE AREA OF OPERATIONS. THE CONTRACTOR SHALL MAKE ALL NECESSARY INVESTIGATIONS TO DETERMINE THE EXISTENCE AND LOCATIONS OF SUCH UTILITIES. THE CONTRACTOR SHALL PAY FOR ANY DAMAGE TO AND FOR ANY MAINTENANCE AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES.
3. ALL EXISTING UTILITIES TO REMAIN IN PLACE AND IN SERVICE UNLESS OTHERWISE NOTED. COORDINATE WITH UTILITY SERVICE COMPANY PRIOR TO PERFORMING DEMOLITION WORK.
4. PLANIMETRIC AND TOPOGRAPHIC SURVEY BY LUMSDEN ASSOCIATES, P.C. MAY 2010.
5. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" (DIAL 811 OR 1-800-552-7001) A MINIMUM OF TWO BUSINESS DAYS PRIOR TO WORKING IN THE VICINITY OF THE EXISTING UTILITIES.

Landscape Architecture
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120 W. Campbell Ave. SW
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(540) 473-1567

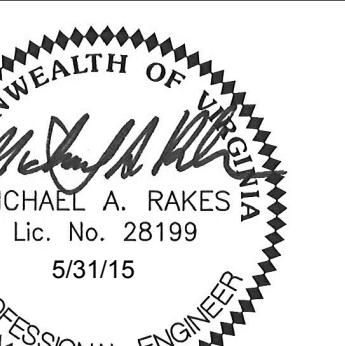


10 CHURCH AVE SE, PLAZA SUITE 1 ROANOKE, VIRGINIA 24011 540.342.6001

VIRGINIAN RAILWAY
PASSENGER STATION
PHASE II - RESTORATION
VDOT UPC # 103592
STATE PROJ# EN05-128-325, C502

ROANOKE, VA

SPECTRUM DESIGN PROJECT NO. 12138



DATE 31 MAY 2015
DESIGN ARCHITECT BAR
PROJECT ARCHITECT BAR
CHECKED BY MAR
DRAWN BY MF
REVISIONS NUMBER DATE

LEGEND
GRAVEL TO BE REMOVED AND RE-USED AS FILL MATERIAL
CONCRETE TO BE REMOVED
PAVEMENT TO BE REMOVED

SHEET TITLE
EXISTING CONDITIONS
AND DEMOLITION
PLAN

C101

1" = 20'-0"

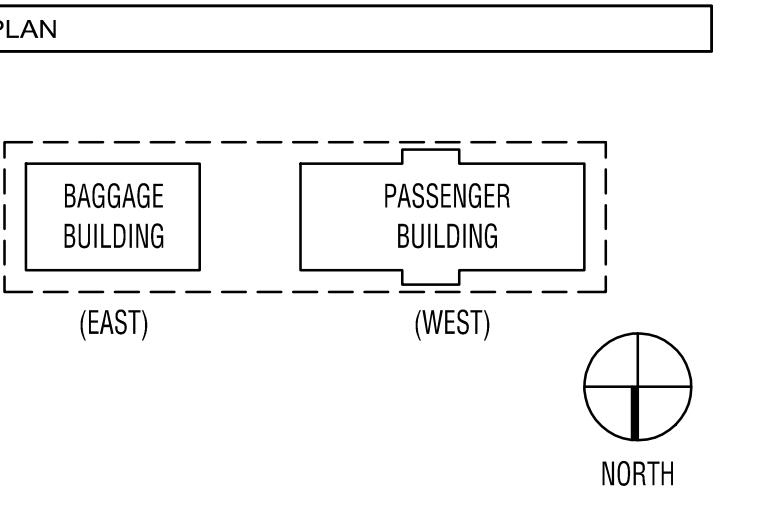
20' 10' 0' 20' 40'

C1 (DEED)
A = $90^{\circ}00'53''$
R = 40.00'
T = 40.01' (FIELD) 40.00' (DEED)
L = 62.84'
BRG. N $53^{\circ}19'33''$ E
CHD. 56.58'

C2 (DEED)
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 R = 10.00'
 T = 12.18'
 L = 17.67'
 BRG. S $14^{\circ}46'44''$ W
 CHD. 15.46'

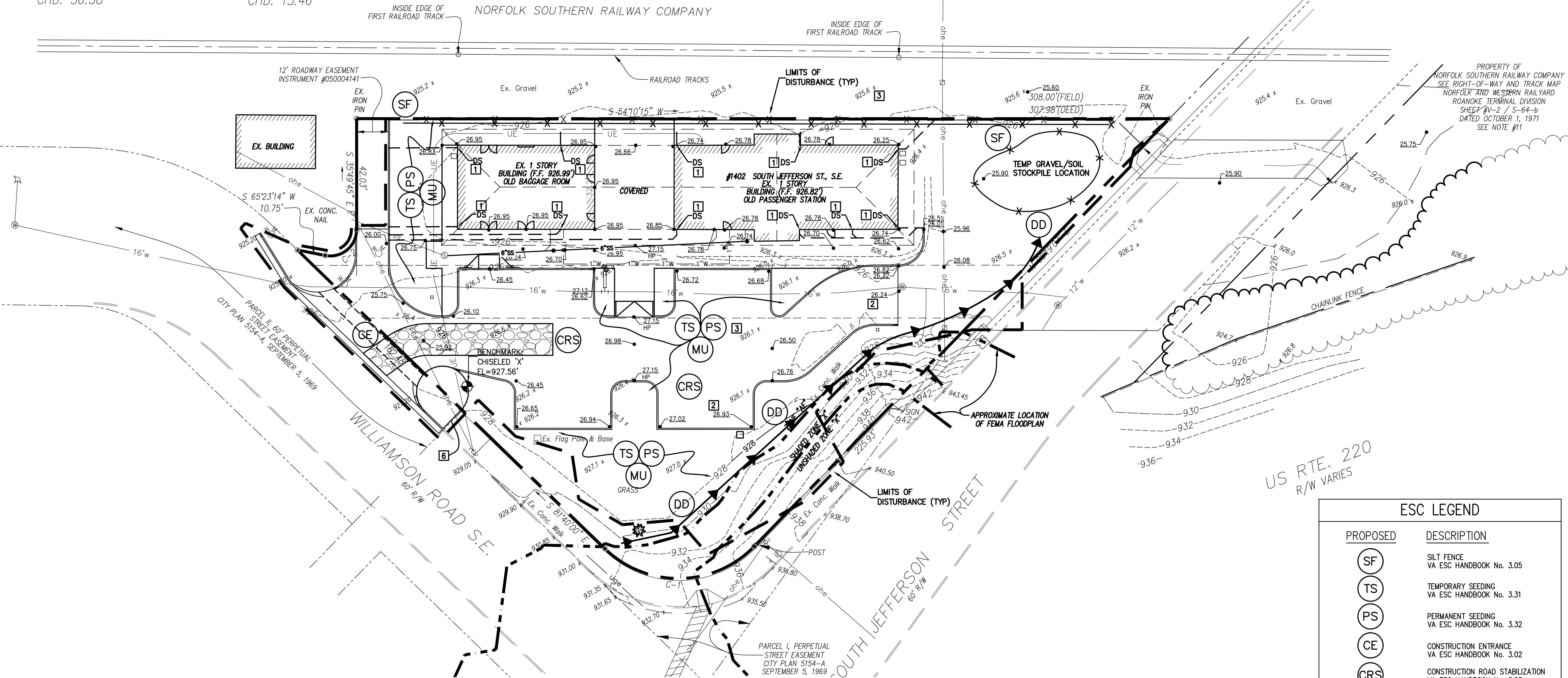
BOUNDARY COORDINATES		
CORNER	NORTHING	EASTING
L1	4757.91799	968.58368
L2	4981.47065	1001.27065
L3	5015.26121	1046.64708
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L5	4987.23470	1197.63532
L6	4972.28957	1193.69251
L7	4938.21056	1218.29745

A
SDDI
TOP OF MANHOLE LID = 926.28'
INV. OF 12" RCP = 923.31'
DIRECTION OF 12" RCP APPROXIMATE



GENERAL NOTES

1. PROPOSED SITE CONDITIONS ARE EXPECTED TO REDUCE THE DEVELOPED FOOTPRINT OVER THE PROJECT AREA AS COMPARED TO EXISTING CONDITIONS. IN ACCORDANCE WITH VIRGINIA STATE STORMWATER MANAGEMENT GUIDELINES STORMWATER MANAGEMENT PRACTICES (QUANTITY & QUALITY) ARE NOT EXPECTED TO BE REQUIRED.
 2. DISTURBED AREA 0.75 ACRES.



GENERAL EROSION & SEDIMENT CONTROL NOTES

ES-1: Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be constructed and maintained according to minimum standards and specifications of the Virginia Erosion and Sediment Control Handbook and Virginia Regulations VR 625-02-00 Erosion and Sediment Control Regulations.

ES-3: All erosion and sediment control measures are to be placed prior to or as the first step in clearing.

ES-4: A copy of the approved erosion and sediment control plan shall be maintained on the site at all times.

ES-5: Prior to commencing land disturbing activities in areas other than indicated on these plans (including, but not limited to, off-site borrow or waste areas), the contractor shall submit a supplementary erosion control plan to the owner for review and approval by the plan approving authority.

ES-6: The contractor is responsible for installation of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the plan approving authority.

ES- 7: All disturbed areas are to drain to approved sediment control measures at all times during land disturbing activities and during site development until final stabilization is achieved, after which, upon approval of the DCR Stormwater Compliance Specialist, the controls shall be removed. Trapped sediment and the disturbed soil areas resulting from the removal of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.

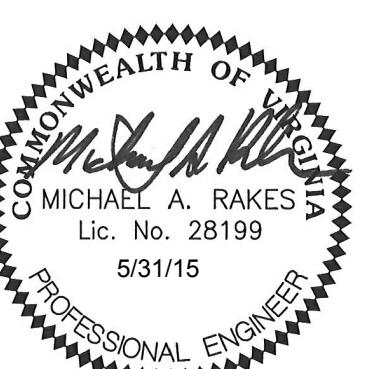
ES-9: The contractor shall inspect all erosion control measures at least every 2 weeks and immediately after each runoff-producing rainfall event. Any necessary repairs or cleanup to maintain the effectiveness of the erosion control devices shall be made immediately. The Responsible Land Disturber associated with this project shall maintain written monitoring reports on-site and provide to the DCR Stormwater Compliance Specialist upon request.

KEYNOTES:

- 1** DOWNSPOUT (TYP), PIPE 4"RL TO CURB.
 - 2** NEW FINISHED GRADE ELEVATION, TYPICAL. GRADES AT CURB ARE BOTTOM OF CURB, UNLESS OTHERWISE INDICATED.
 - 3** EXISTING GROUND ELEVATION, TYPICAL.
 - 4** NOT USED.
 - 5** NOT USED.
 - 6** ENTRANCE TO REMAIN FLUSH WITH CONCRETE WALK GRADE

EFGEND

ELEV.00 FINISHED GRADE LOCATION
SEE KEYNOTE 2



DATE	31 MAY 2015	
DESIGN ARCHITECT	BAR	
PROJECT ARCHITECT	BAR	
PROJECT ENGINEER	MAR	
CHECKED BY		
DRAWN BY	MF	
REVISIONS	NUMBER	DATE

REVISIONS NUMBER DATE

Digitized by srujanika@gmail.com

SHEET TITLE

GRADING AND

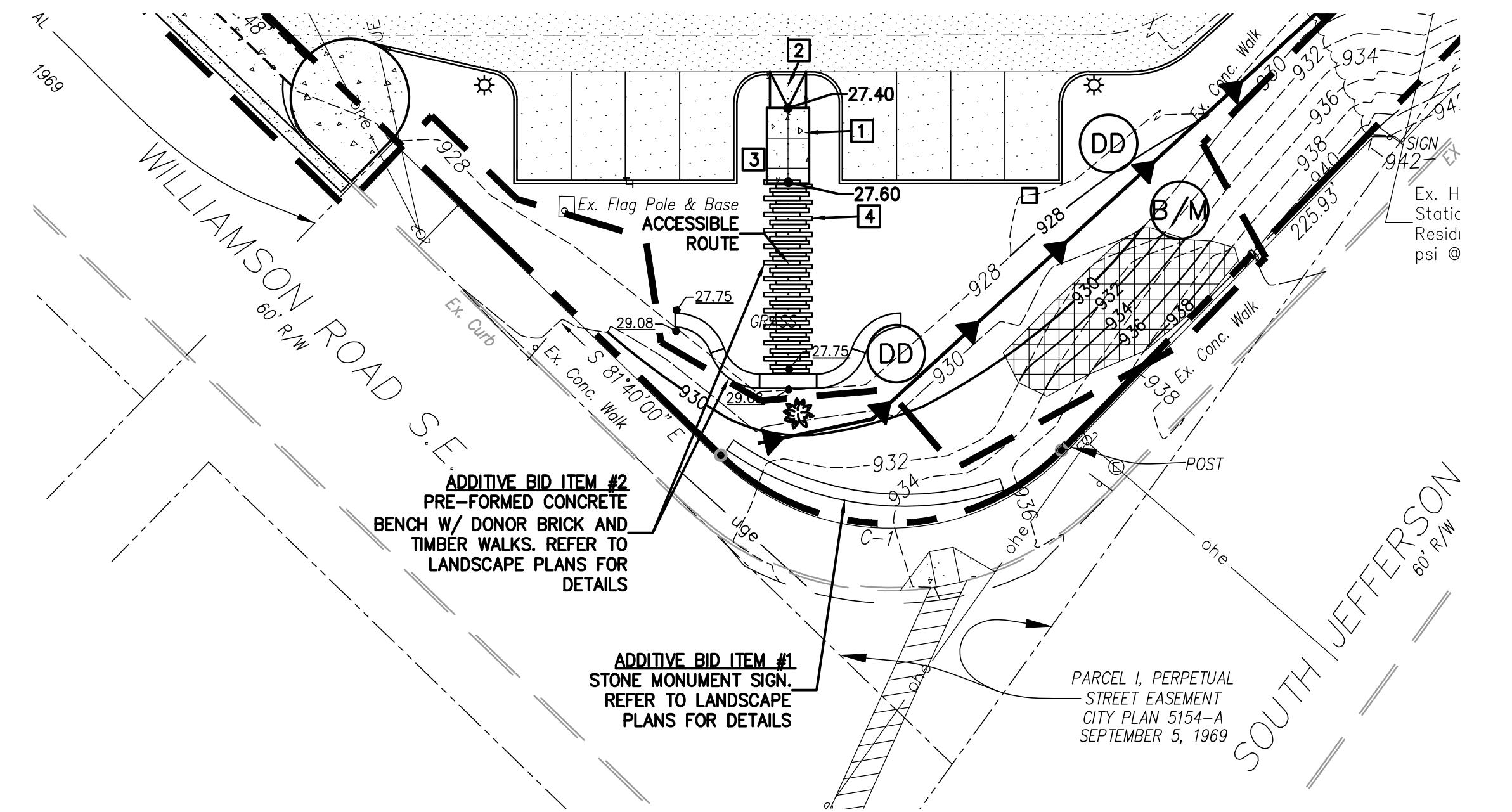
GRADING AND STORM DRAINAGE

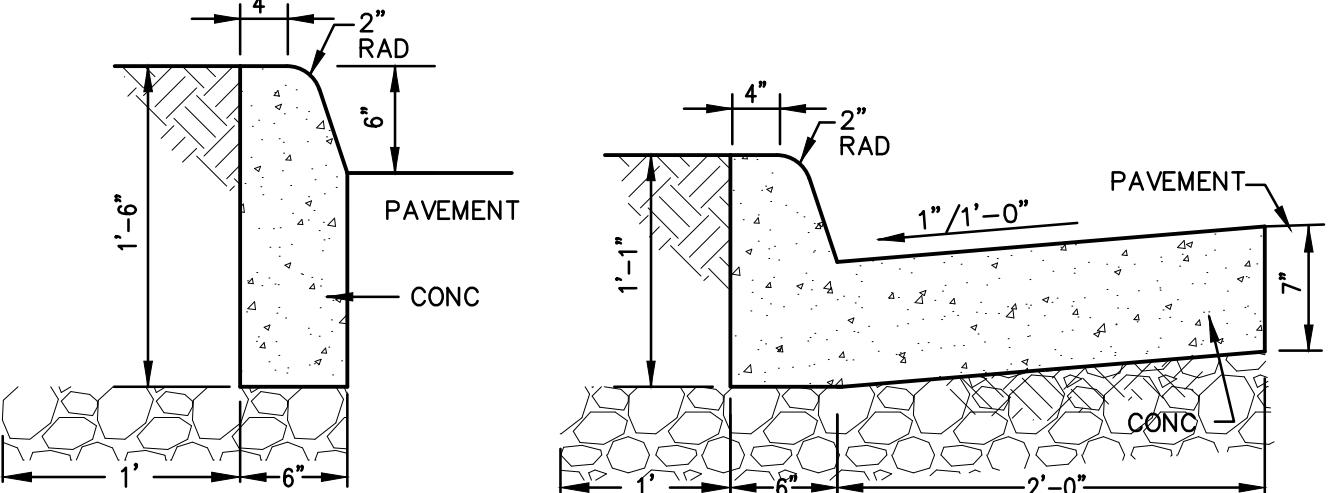
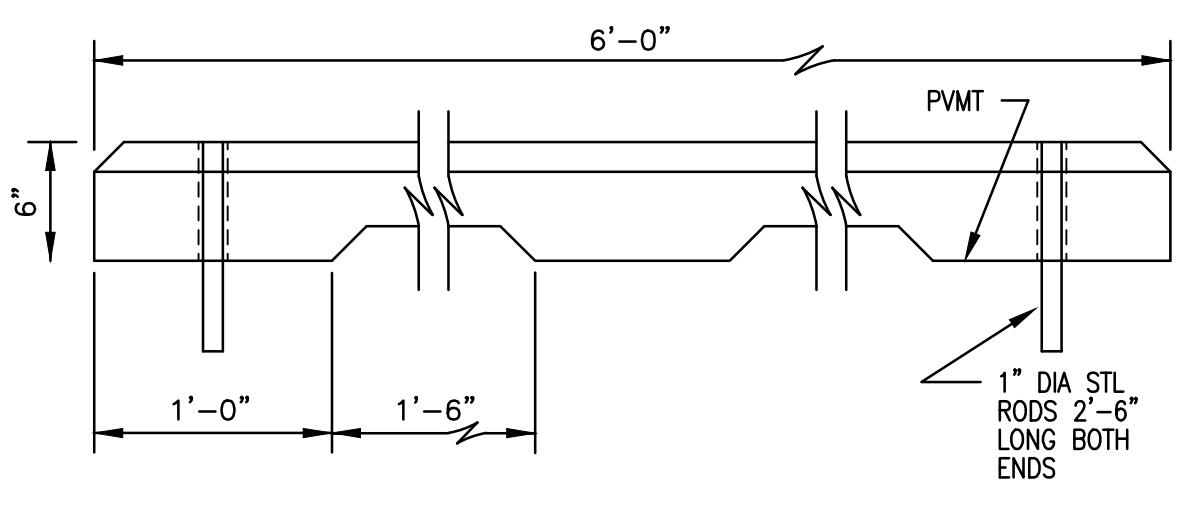
STORM DRAINAGE

SHEET TITLE

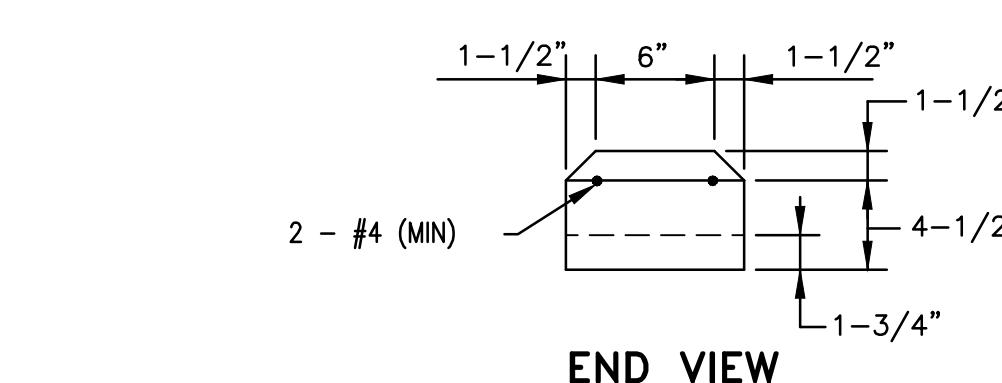
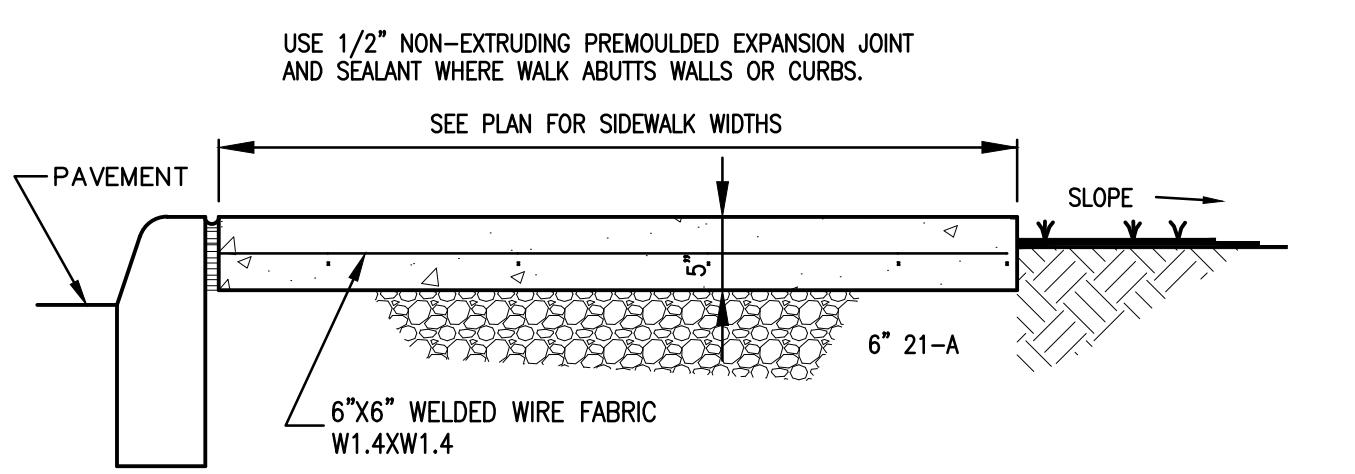
GRADING AND STORM DRAINAGE PLAN

C103

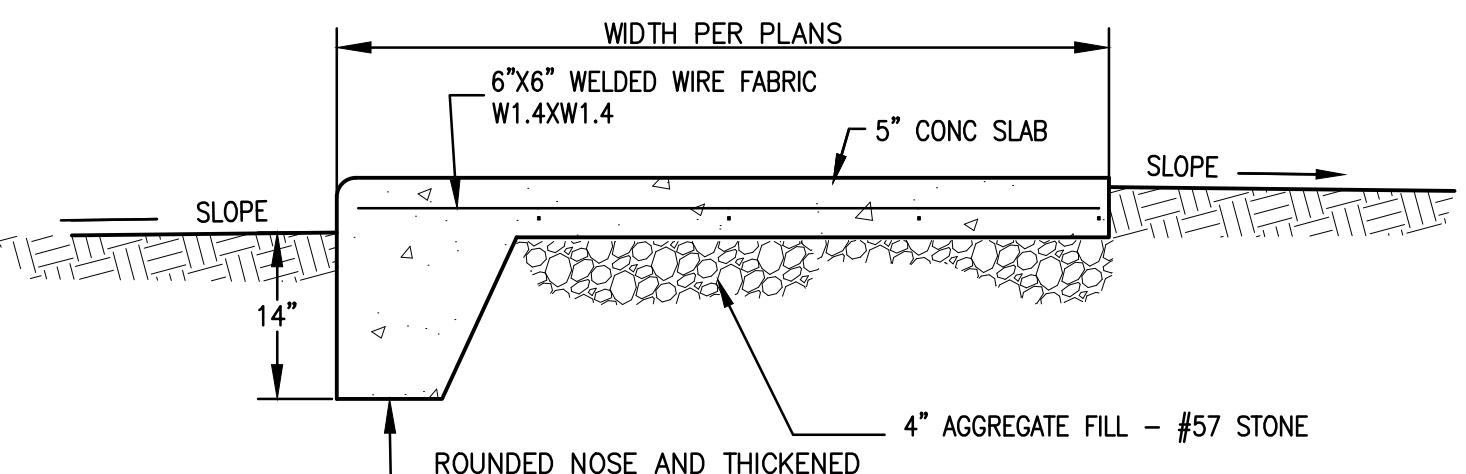


CG-2 CURB
CG-6 CURB & GUTTERCURBING
NO SCALE

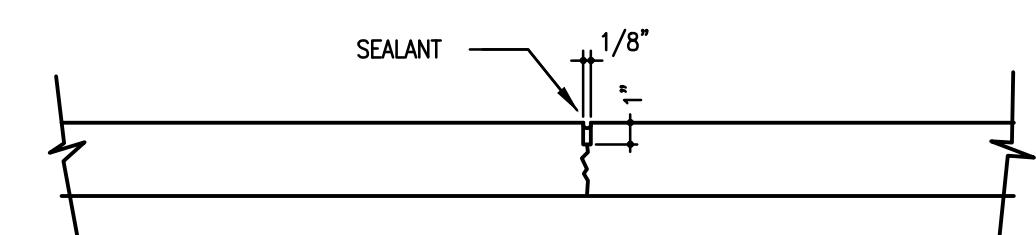
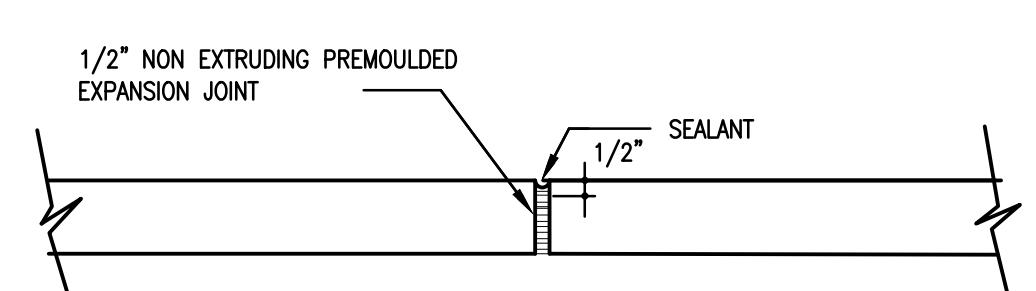
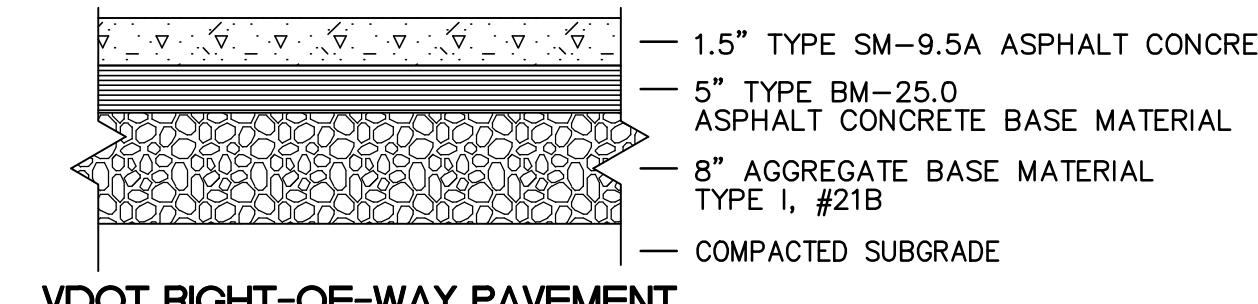
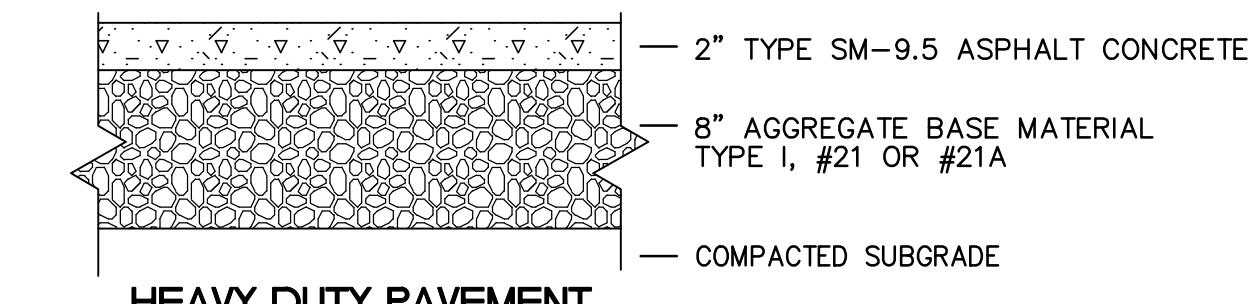
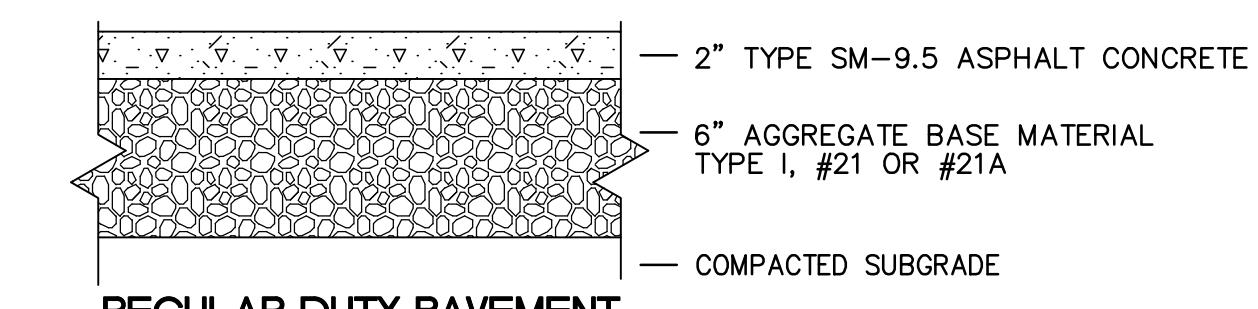
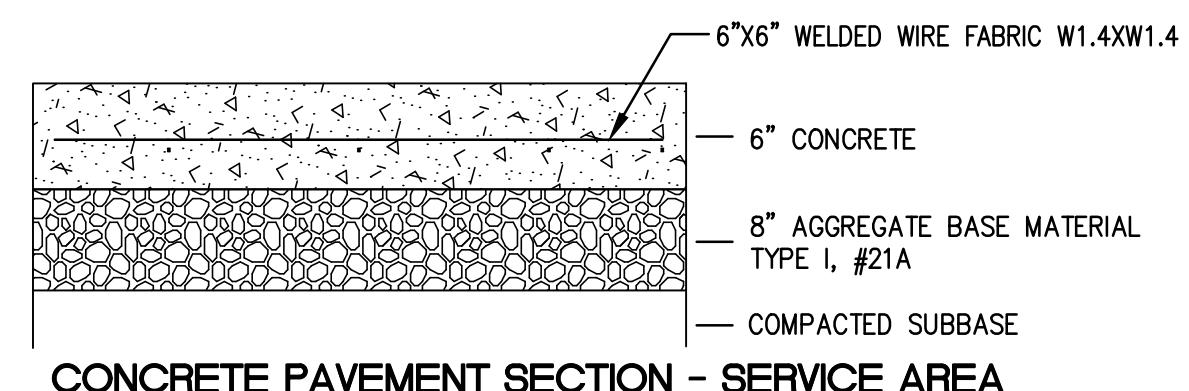
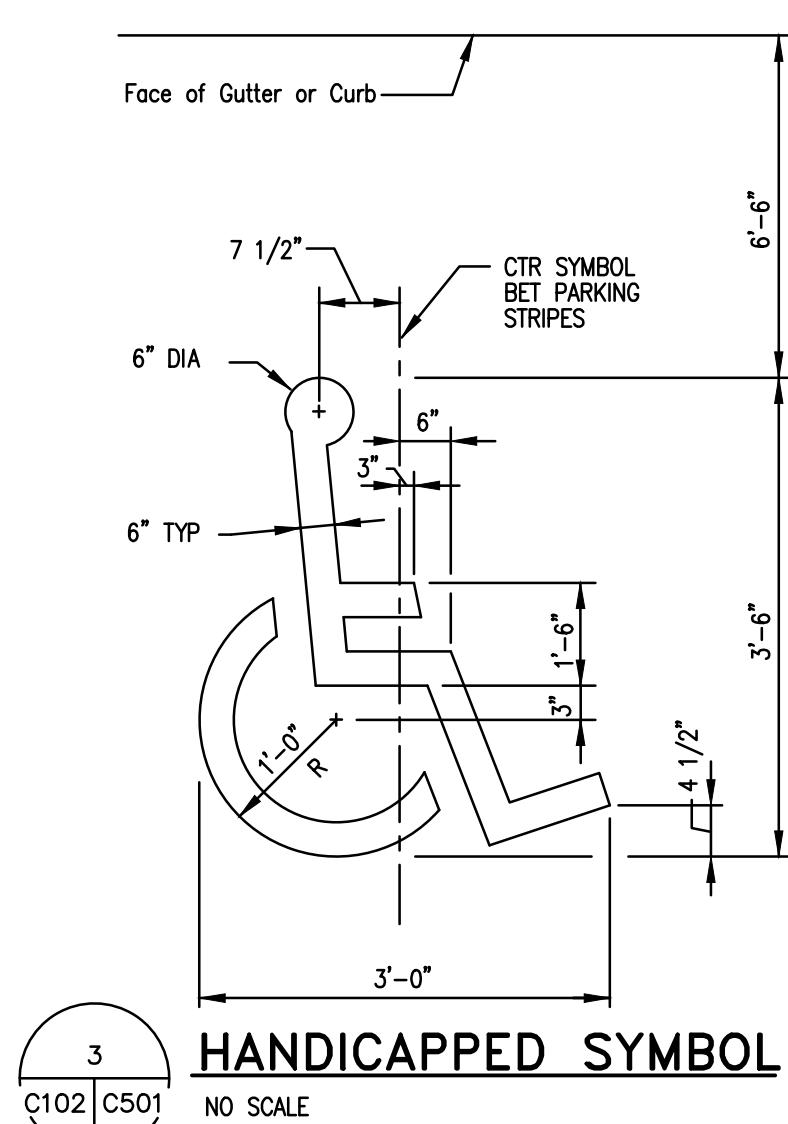
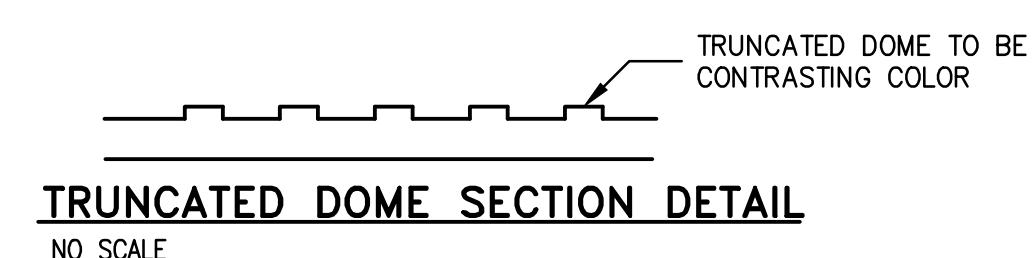
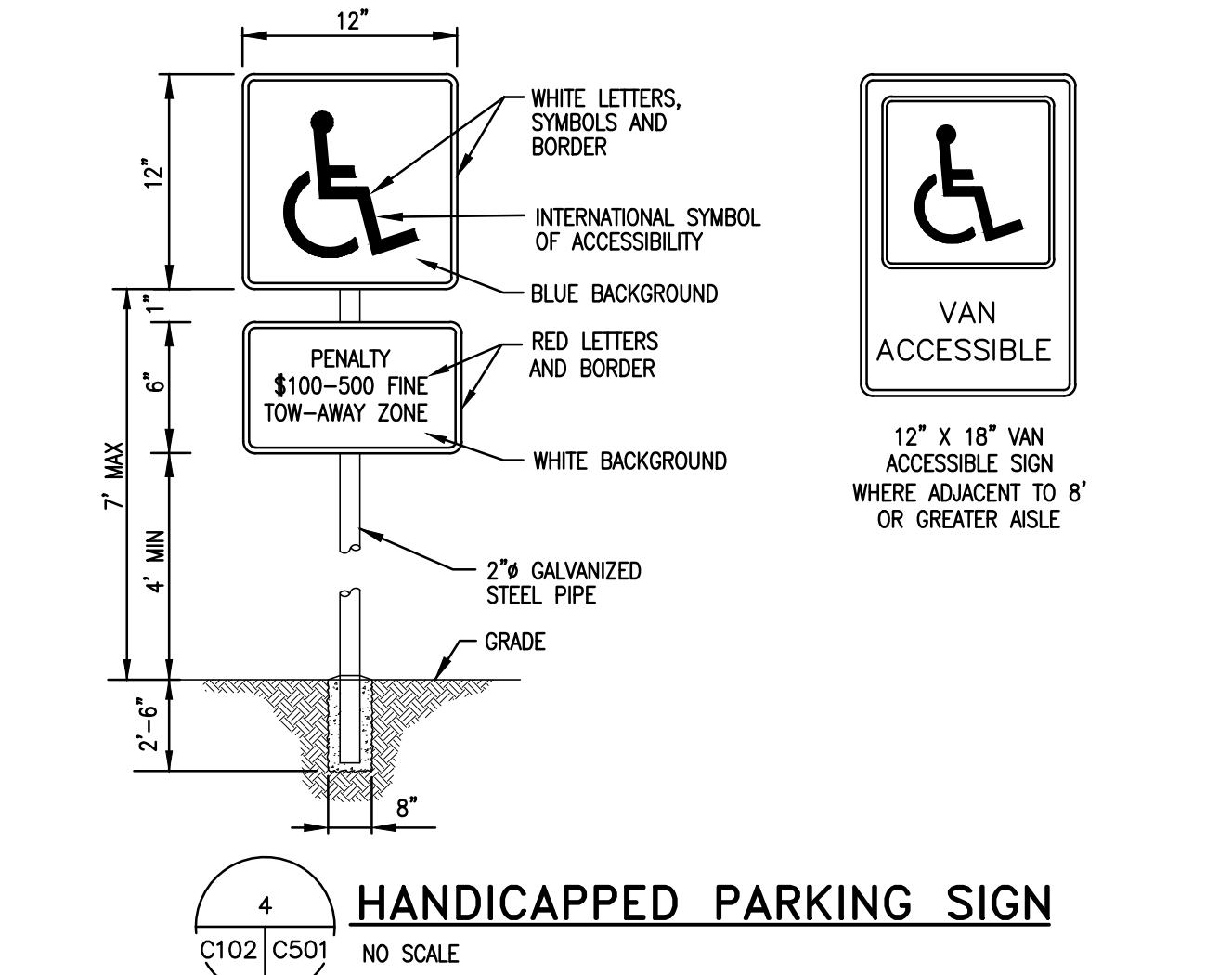
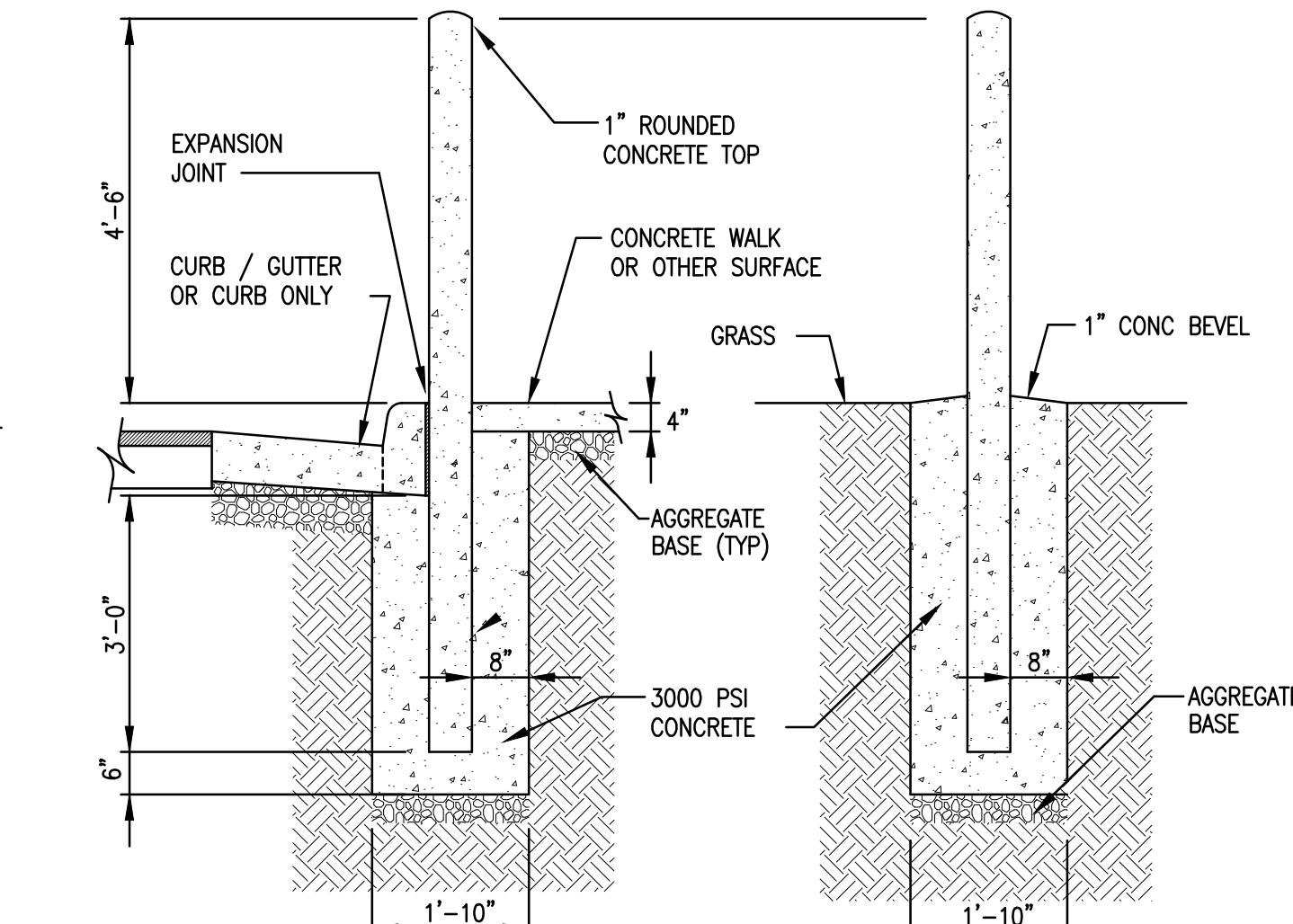
ELEVATION

PRECAST WHEEL STOP
NO SCALE

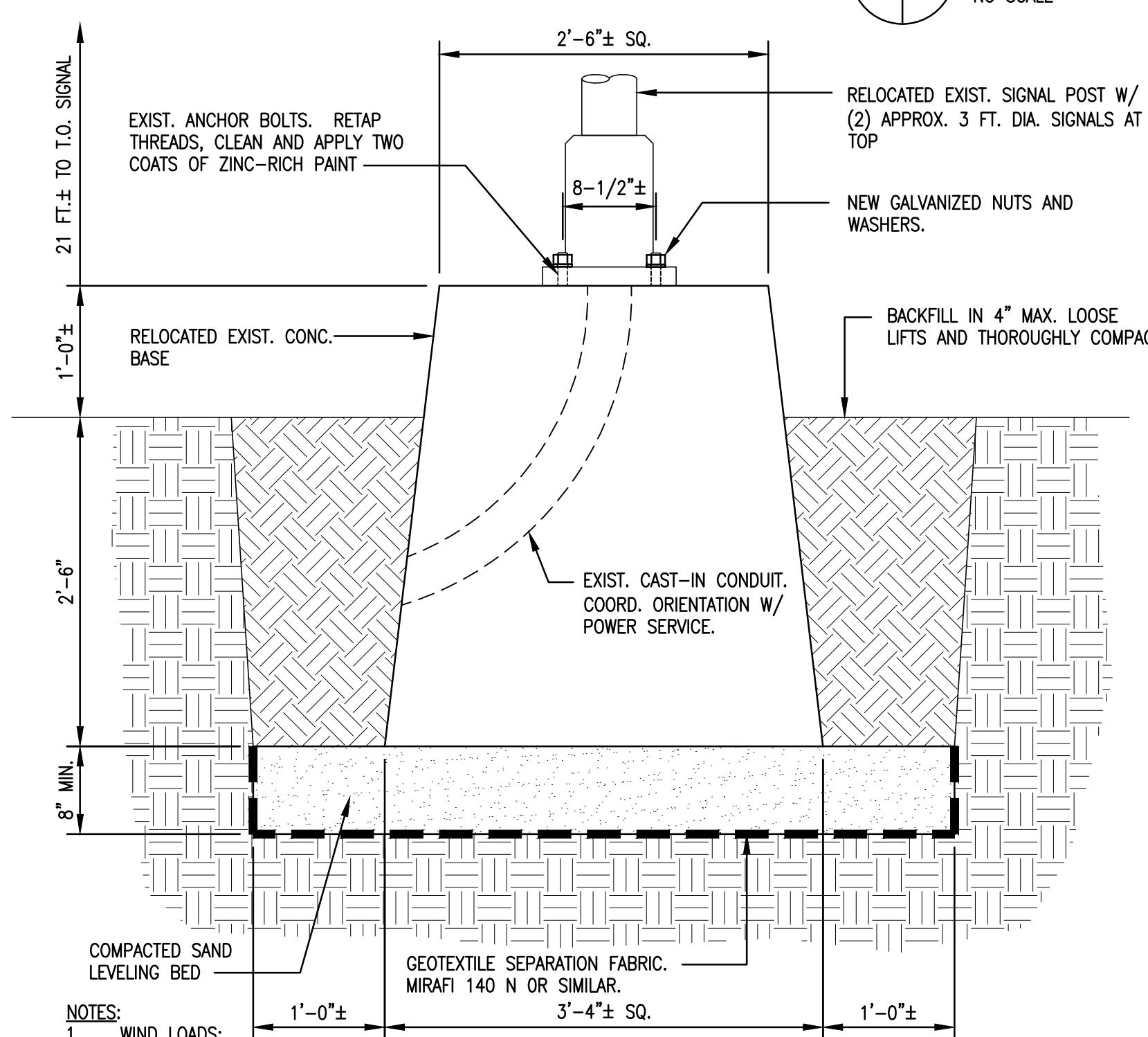
TYPICAL SECTION



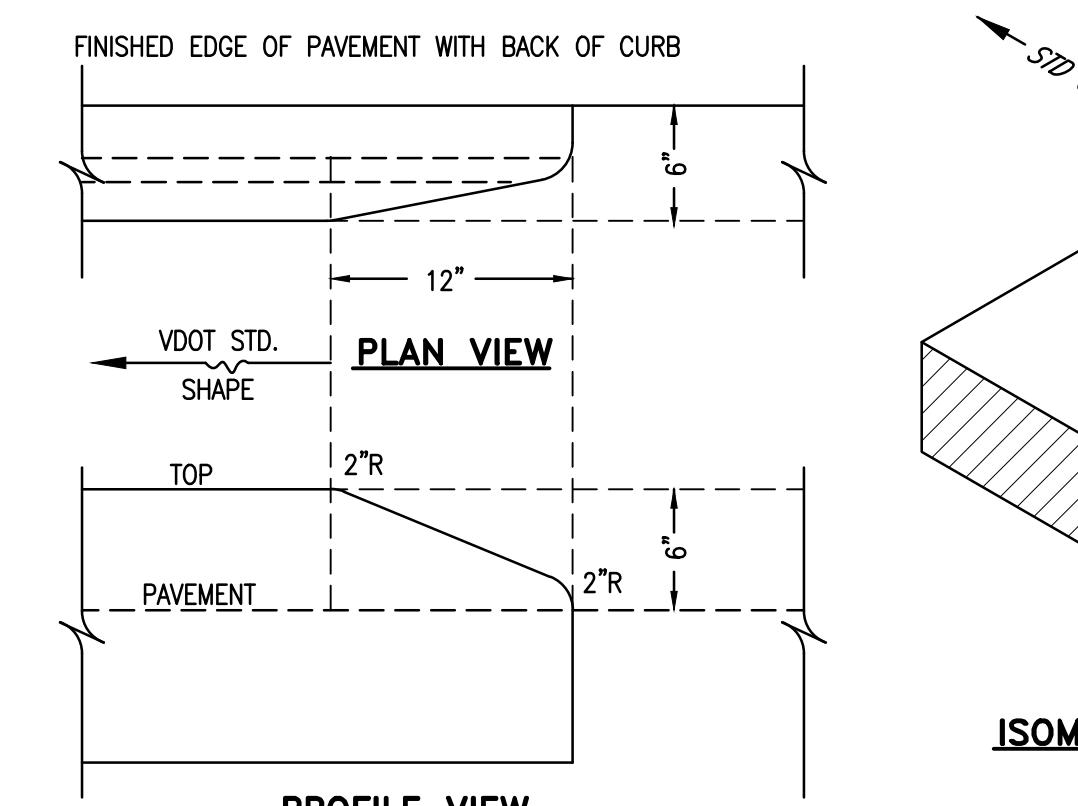
OPTIONAL TURN DOWN SIDEWALK

CONTRACTION JOINT
SPACED @ 6'-0" C/CEXPANSION JOINT
SPACED @ 30'-0" C/CSIDEWALK DETAILS
NOT TO SCALEPAVEMENT SECTIONS
NO SCALEHANDICAPPED SYMBOL
NO SCALETRUNCATED DOME SECTION DETAIL
NO SCALEHANDICAPPED PARKING SIGN
NO SCALECURB AND GUTTER
GRASS
TRAFFIC BOLLARD DETAIL (6" DIA)
SCALE: 1/2"=1'-0"

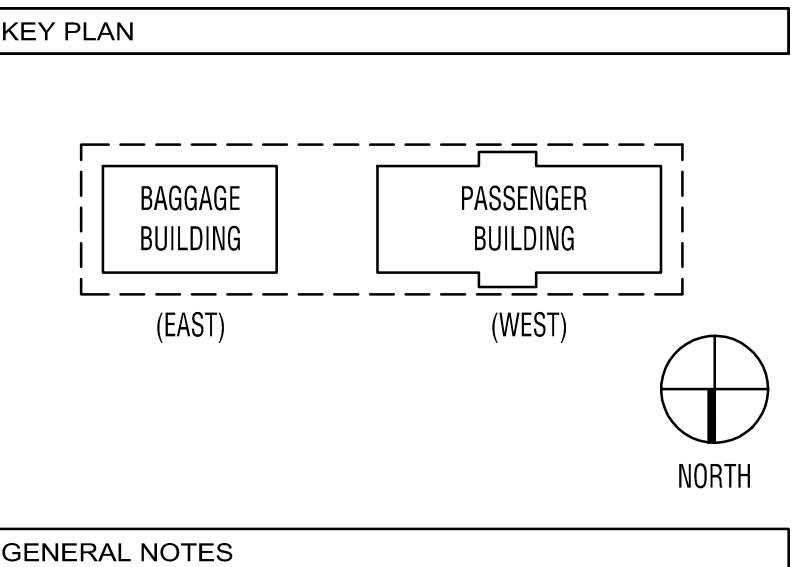
NOTE:
6" DIAMETER SCH 40 STEEL PIPE BOLLARD FILLED WITH 3000 PSI CONCRETE. PAINT WITH RUST PROHIBITIVE PRIMER AND ENAMEL PAINT CONCRETE @ TOP, DON'T PAINT @ BASE

TRIANGULAR H/C RAMP
NO SCALE

NOTES:
1. WIND LOADS:
V = 90 MPH
EXPOSURE B
I = 0.87
2. APPROX. WEIGHT OF CONCRETE BASE = 4500 LB.
3. THE BASE IS LOCATED IN THE 100 YEAR FEMA FLOODPLAIN. THE BASE AND SIGNAL ARE NOT BUOYANT.

RELOCATED SIGNAL BASE DETAIL
NO SCALEWIPE DOWN CURB
NO SCALE

NOTES:
1. VDOT CG-2 OR CG-6 (CURB PORTION).
2. SEE PAVEMENT DETAIL FOR TYPE OF BEDDING.



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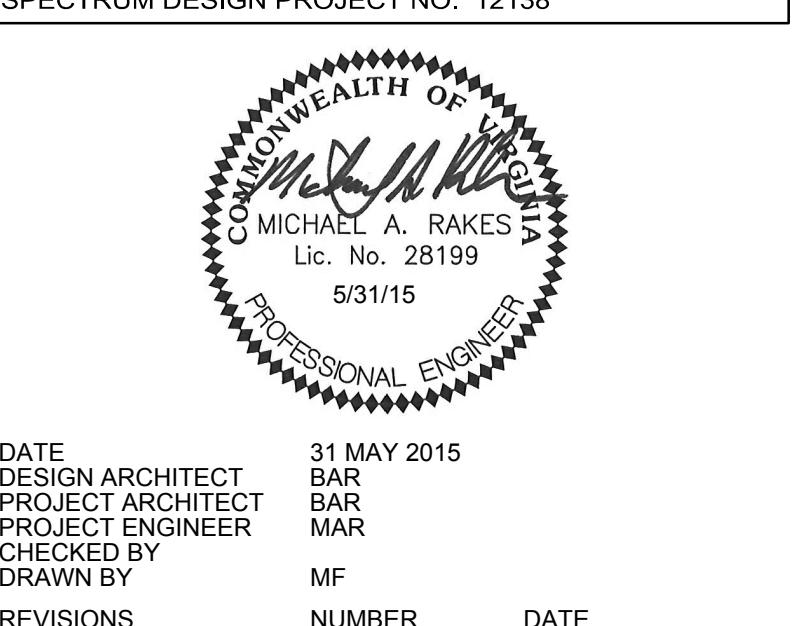
BARRY A. RAKES - ARCHITECT, PLLC
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VIRGINIAN RAILWAY
PASSENGER STATION
PHASE II - RESTORATION
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STATE PROJ# EN05-128-325, C502

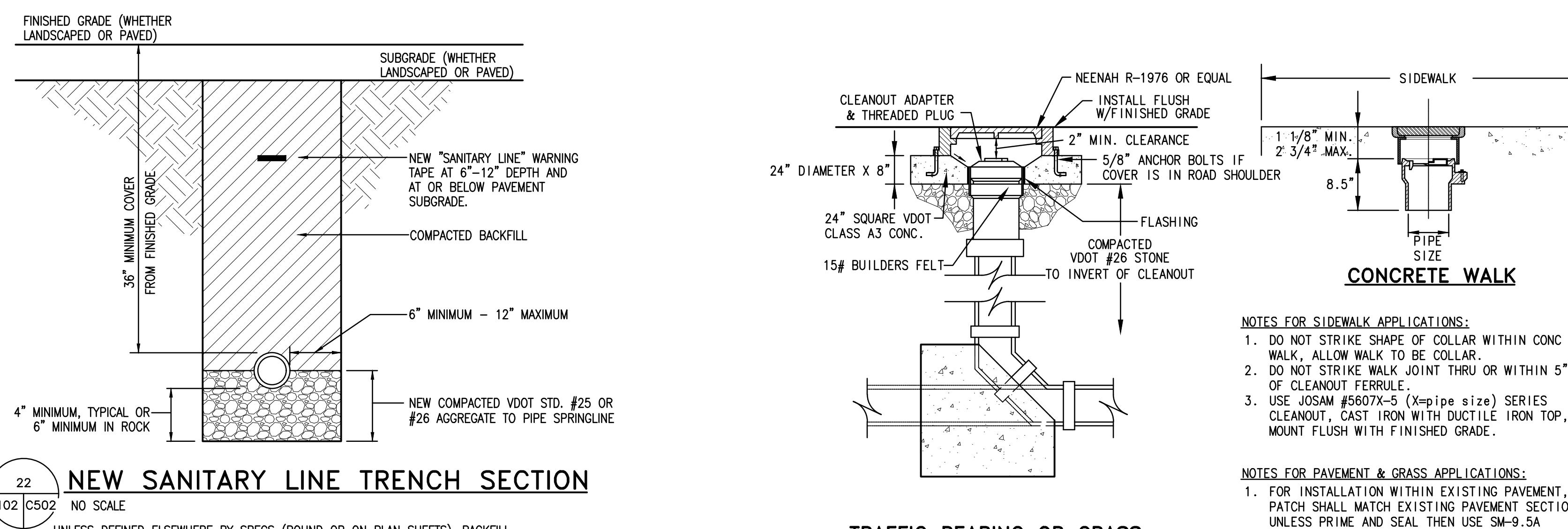
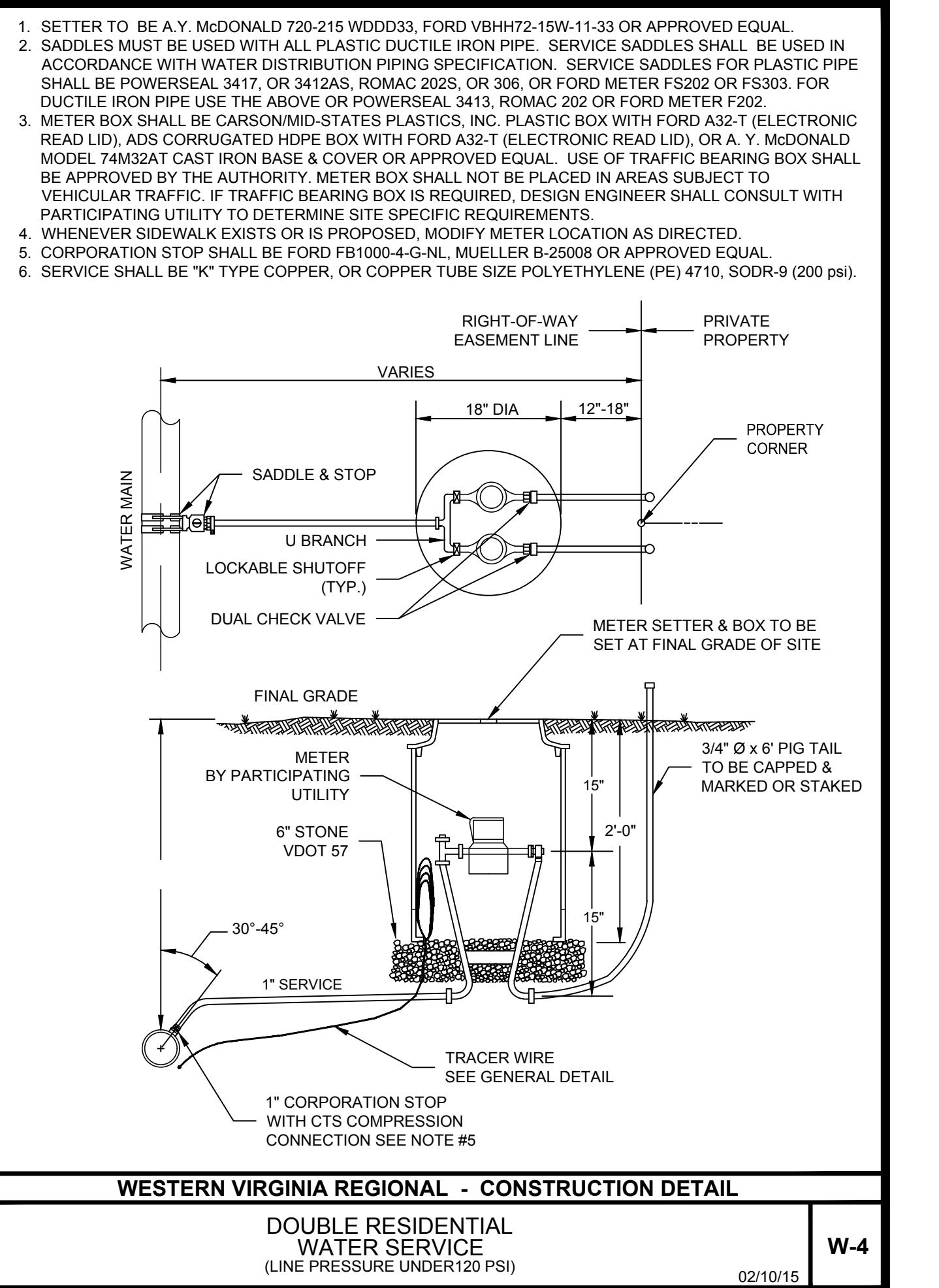
ROANOKE, VA
SPECTRUM DESIGN PROJECT NO. 12138



SHEET TITLE

DETAILS

C501



22 NEW SANITARY LINE TRENCH SECTION

C102 C502 NO SCALE
UNLESS DEFINED ELSEWHERE BY SPECS (BOUND OR ON PLAN SHEETS), BACKFILL SHALL BE AS APPROVED BY THE GEOTECHNICAL ENGINEER.

TRAFFIC BEARING OR GRASS

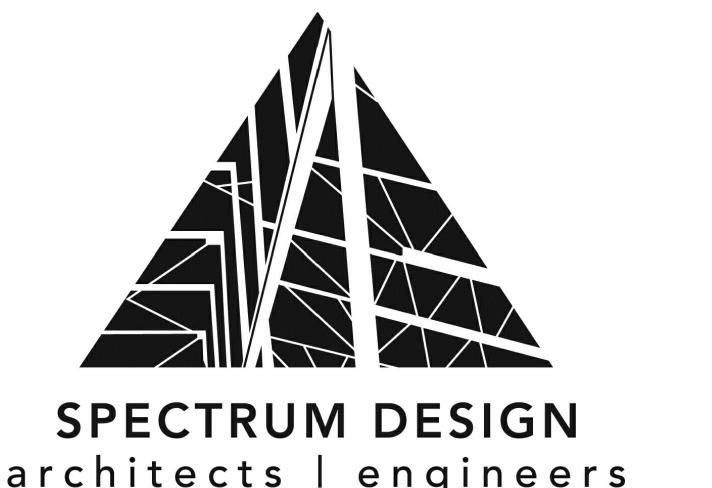
NOTES FOR PAVEMENT & GRASS APPLICATIONS:
 1. FOR INSTALLATION WITHIN EXISTING PAVEMENT, PATCH SHALL MATCH EXISTING PAVEMENT SECTION UNLESS PRIME AND SEAL THEN USE SM-9.5A PATCH (3" MIN).
 2. PVC CLEANOUT WITH 10" NEENAH R-1976 TRAFFIC BEARING CLEANOUT FRAME AND COVER, OR APPROVED EQUAL.



C102 C502 NO SCALE

Landscape Architecture
Architecture
Community Planning
Historic Preservation
120 W. Campbell Ave. SW
Roanoke, VA 24011
tel: 540-342-5263 fax: 540-345-5625
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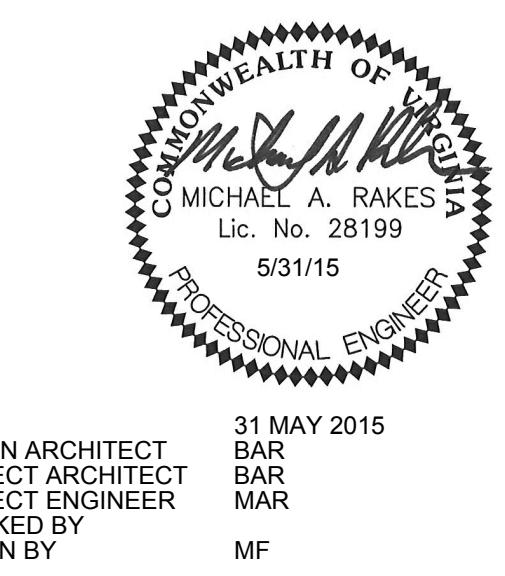
BARRY A. RAKES - ARCHITECT, PLLC
910 WEST WIND ROAD
FINCASTLE, VIRGINIA 24090
(540) 473-1567



10 CHURCH AVE SE, PLAZA SUITE 1 ROANOKE, VIRGINIA 24011 540.342.6001

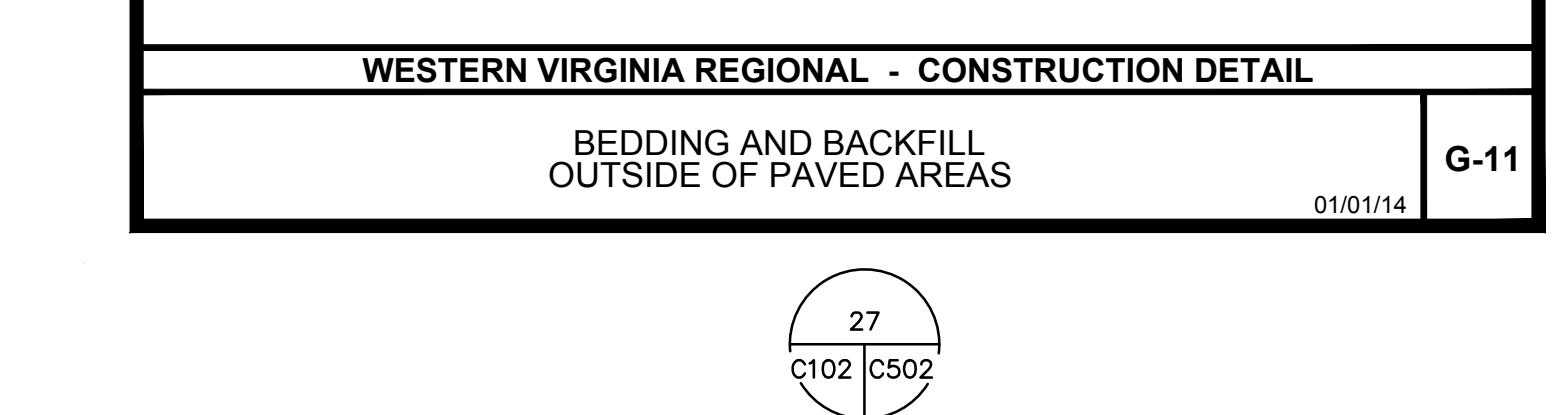
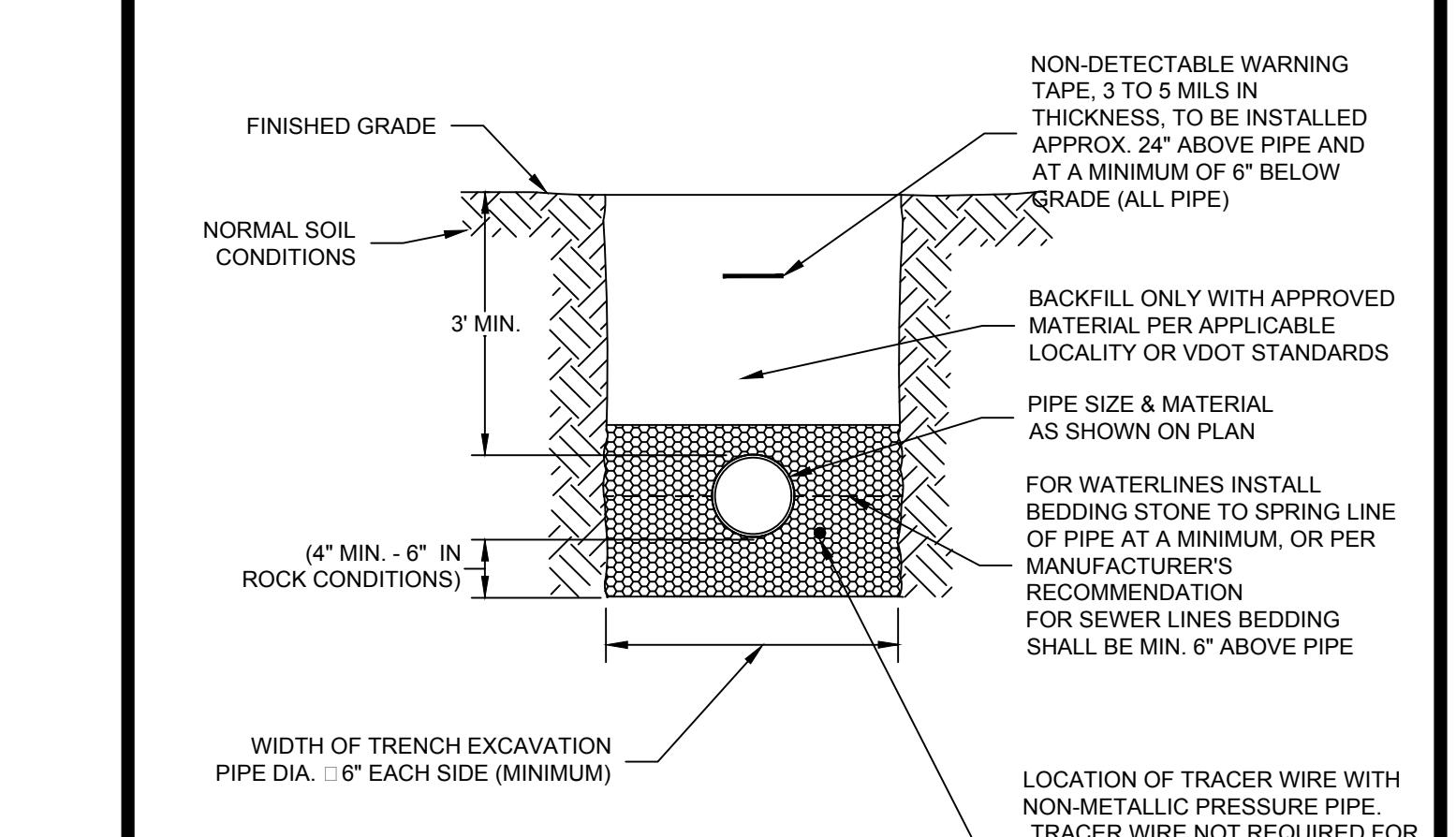
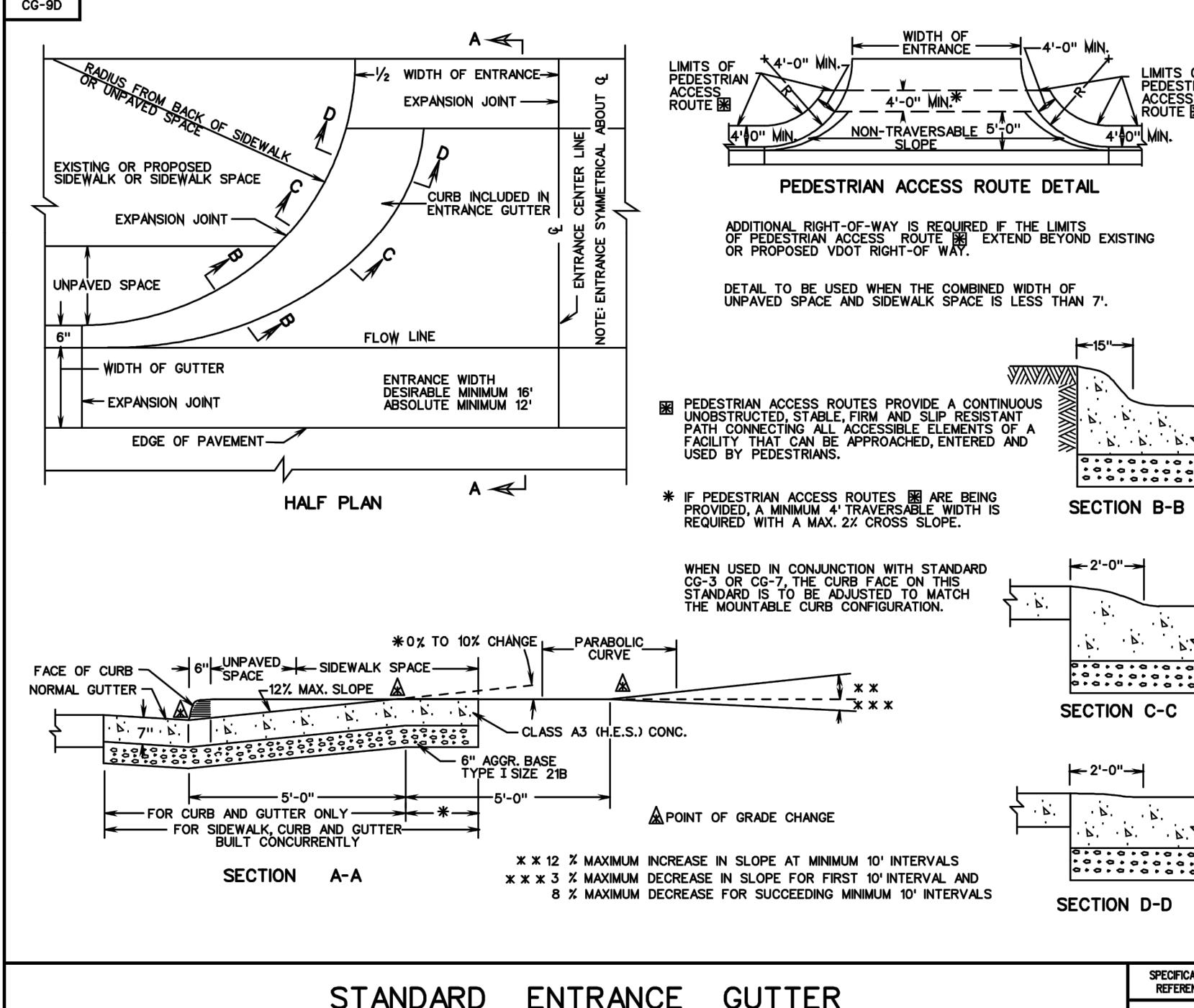
VIRGINIAN RAILWAY
PASSENGER STATION
PHASE II - RESTORATION
VDOT UPC # 103592
STATE PROJ# EN05-128-325, C502

ROANOKE, VA
SPECTRUM DESIGN PROJECT NO. 12138



DATE 31 MAY 2015
DESIGN ARCHITECT BAR
PROJECT ARCHITECT BAR
PROJECT ENGINEER MAR
CHECKED BY DRAWN BY MF
REVISIONS NUMBER DATE

1. BEDDING, LAUNCHING AND INITIAL BACKFILL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THIS DETAIL AND MANUFACTURER'S RECOMMENDATION.
 2. ALL PVC PIPE SHALL BE BEDDED IN COMPACTED VDOT #57 OR #58 STONE, OR CRUSHER RUN.
 3. IN AREAS SUBJECT TO VEHICULAR TRAFFIC, BEDDING STONE AND FILL SHALL BE PLACED IN 6" LIFTS FROM BOTTOM OF TRENCH TO 1" ABOVE THE PIPE AND THE REMAINING SHALL BE PLACED IN 10" LIFTS AND SHALL BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 698.
 4. BEDDING REQUIREMENTS FOR DUCTILE IRON WATER LINE ARE DEPENDENT ON MANUFACTURER'S BEDDING CRITERIA.
 5. ALL EXCAVATIONS SHALL COMPLY WITH OSHA TECHNICAL MANUAL, CHAPTER 2, TITLED "EXCAVATIONS: HAZARD RECOGNITION IN TRENCHING AND SHORING."
 6. THE TRACER WIRE SHALL BE PLACED ALONG THE LOWER QUADRANT OF THE PIPE. THE WIRE SHALL NOT TOUCH THE PIPE, BUT SHALL BE A MAXIMUM OF 6" FROM THE PIPE. NON-METALLIC SPACERS MAY BE USED TO MAINTAIN A SET DISTANCE FROM THE UTILITY.



27 C102 C502 NO SCALE

SHEET TITLE DETAILS
C502

EROSION CONTROL NARRATIVE

RESPONSIBLE LAND DISTURBER

Upon award of the Construction Contract, the Contractor shall have in his employ a Responsible Land Disturber, who is certified by the Department of Conservation and Recreation. The name of this person is to be designated in writing by the Contractor to the State and local ESC plan approving authorities, the A.E. and the Owner along with copies of their certification prior to any land disturbance. The Responsible Land Disturber for this project shall be in charge of and is responsible for carrying out the land-disturbing activities on this project. Hereinafter RLD shall be interpreted as the Responsible Land Disturber.

PROJECT DESCRIPTION

This project includes the rehabilitation of the Virginian Train Depot into a museum and retail space. The work will include walks, parking, landscaping and associated utilities. 0.75 acres, maximum (including Additive Bid items), will be disturbed as part of this work.

EXISTING SITE CONDITIONS

The project site is home to the Virginian Train Depot, a 1908 building on the National Historic Register. The building was heavily damaged by fire over a decade ago but the brick exterior structure remains and the roof was recently replaced. The areas surrounding the building are densely graveled and the majority of the site is considered impervious. The site is previously disturbed. Generally, the project site drains from North to South with unconcentrated surface flow across the railroad right-of-way and to the Roanoke River.

Slopes throughout the site range widely, from 1% in parking areas to 50% adjacent to the Jefferson Street Bridge. A portion of the project area is within a designated FEMA floodplain.

ADJACENT PROPERTY

The site is bordered to the North-East by Williamson Road and to the North-West by Jefferson Street. The Southern side of the parcel is bounded by Norfolk Southern right-of-way. An existing brick 1-story saloon borders the property directly to the East.

OFF-SITE AREAS

Offsite areas will be needed to waste excess and/or unsuitable soils, rock, and land clearing debris and may be needed as a source for suitable fill or topsoil. Prior to land disturbance at any off-site area, submit to the Local Governing Authority (LGA) a copy of plans, land disturbing permit, and/or agreement as required by the appropriate Federal, State, or local authorities.

It is the Contractor's responsibility to assure that any off-site area has a current, approved Erosion Control Plan in accordance with the ESC Handbook and Regulations and current local and state disturbance and/or stormwater permits.

Should the borrow, excavation waste or spoil areas proposed not have a current approved ESC Plan, an ESC Plan shall be submitted and approved by the Department of Conservation and Recreation and local authorities prior to any land disturbances in accordance with the requirements of the Erosion Control notes in these plans and Virginia State Laws.

SOILS

The predominant soil which will be disturbed is Chiswell-Lit-Urban land complex, 2 to 15 percent slopes. A typical profile is a channery silt loam layer 0 to 4 inches thick. The subsoil from 4 to 18 inches consists of a very channery silt loam. Bedrock is typically encountered 24 to 342 inches below original grade. The profile is well-draining.

Existing roadway fill material consists of Udruthens-Urban Land Complex soils, a gravelly fill material. Permeability is moderate to very rapid.

Critical Erosion Areas

Critical erosion areas consist of steep slopes and perimeter control. Steep slopes shall be seeded immediately upon completion of grading, with a liberal application of temporary and/or permanent seed and mulch. Silt fencing shall be installed as the first step of construction, and maintained throughout construction as a perimeter erosion control measure.

Erosion and Sediment Control Measures

Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be constructed and maintained in accordance with the minimum standards and specifications to the Virginia Erosion and Sediment Control Handbook, latest edition. References to VDOT refer to the Virginia Department of Transportation "Road and Bridge Standards and Specifications," latest edition.

STRUCTURAL PRACTICES

1. Temporary Construction Entrance (CE) - Std. & Spec. 3.02

A temporary construction entrance shall be installed where the construction access road leaves existing pavement. During wet weather conditions, drivers of construction vehicles will be required to wash their wheels before entering the street. To prevent traffic and safety hazards, the Contractor shall take actions as necessary (wheel washing, road sweeping, etc.) to maintain public right-of-ways consistently free and clear of tracked sediment and debris.

2. Construction Road Stabilization (CRS) - Std. & Spec. 3.03

All construction roads travel lanes on the site shall be stabilized with gravel during and immediately after rough grading. Construction traffic shall be limited to access roads and areas to be graded. The contractor shall provide construction roads as needed to provide access throughout the project site. Traffic is prohibited from entering drainage swales unless absolutely necessary.

3. Silt Fence (SF) - Std. & Spec. 3.05

A temporary sediment barrier, consisting of a filter fabric stretched across and attached to support posts with wire fencing and entrenched will be installed as indicated on the plans.

4. Temporary Diversion Dike (DD) - Std. & Spec. 3.09

A temporary ridge of compacted soil constructed at the top or base of a sloping disturbed area. Contractor shall provide at base of fill slope to control erosion of fill slope until other measure is in place which stabilizes the slope.

STABILIZATION & VEGETATIVE PRACTICES

5. Topsoiling (TO) - Std. & Spec. 3.30

Topsoil shall be stripped from all areas to be graded and stockpiled for later use and protected from erosion. Stockpile locations shall be approved by the Architect. See TOPSOILING, SEEDING, PLANTING notes on plans and the Project Manual.

6. Temporary Seeding (TS) - Std. & Spec. 3.31

All areas to be rough graded, but not finish graded and will remain un-worked for 30 days or more, shall be covered with fast germinating, temporary vegetation immediately following grading. Seeding schedule and rate shall be in accordance with seeding table.

7. Permanent Seeding (PS) - Std. & Spec. 3.32

All areas disturbed shall be permanently seeded in accordance with the project specifications and seeding schedules.

8. Mulching (MU) - Std. & Spec. 3.35

Provide mulching to aid the establishment of temporary and permanent stabilization.

9. Soil Stabilization Blankets & Matting (B/M) - Std. & Spec. 3.36

Install protective measures on steep slopes to aid in the establishment of vegetation.

PERMANENT STABILIZATION

All exposed soil surfaces shall be seeded for permanent vegetative cover immediately following earthwork (within 7 days following finish grading).

MANAGEMENT STRATEGIES

- The RLD shall amend the Plan whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to surface waters and which has not otherwise been addressed in the plan or if the plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified in the permit, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges from construction activities. Also amend to identify any new contractor that will implement a measure of the plan.
- The RLD shall be responsible for the installation and maintenance of all erosion and sediment control practices maintaining them in good and effective operating condition.
- The RLD shall notify the Architect/Engineer when the local governing official has inspected and approved all in-place erosion and sediment control devices, required by local ordinances to be in place prior to land disturbance.
- Construction shall be sequenced so that the duration of grading operations is as brief as possible.
- Temporary seeding or other stabilization shall follow within 7 days after grading, or installation if a temporary measure.
- Areas which are not to be disturbed shall be clearly marked by flags, signs, etc.
- No solid materials, including building materials, garbage, and debris shall be discharged to surface waters of the State, except as authorized by a Section 404 permit.
- Where construction vehicle access routes intersect paved public roads, provisions shall be made to minimize dust and the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a public road surface, the road shall be cleaned immediately. Sediment shall be removed by shoveling or sweeping. The generation of dust shall be minimized. Bulk clearing of accumulated sediment shall not include flushing the area with water. Street washing shall be allowed only after sediment has been so removed.
- Ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.
- All sediment removed from sediment trapping measures or cleaning operations shall be appropriately wasted so as not to become a dust or sediment problem elsewhere.

Maintenance

In general, all erosion and sediment control measures shall be checked weekly and after each significant rainfall. The following items shall be checked in particular:

- Silt fences shall be checked regularly for integrity. Remove any sediment deposits - do not allow buildup.
- Seeded areas shall be checked to see that a good stand is maintained. Areas shall be reseeded as needed.
- Temporary diversions shall be checked regularly for undermining or deterioration.

INSPECTIONS

The RLD shall inspect disturbed areas of the construction site and areas used for storage of materials that are exposed to precipitation, structural control measures, and locations where vehicles enter or exit the site. The inspections shall be conducted at least once every seven (7) calendar days and within twenty-four (24) hours of the end of a storm event of $\frac{1}{2}$ inch or greater.

Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. ESC measures shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking.

Based on the results of the inspection, the site description identified in the plan and pollution prevention measures shall be revised as appropriate, within seven (7) calendar days following the inspection. Such modifications shall provide for timely implementation of any changes to the plan within seven (7) calendar days following the inspection and before next anticipated storm event, if practical.

REPORTING

A report summarizing the scope of the inspection, names and qualifications of personnel making the inspection, the date of the inspection, major observations relating to the implementation of the storm water pollution prevention plan and actions taken as a result of the inspection shall be made and retained as part of the SWPP Plan. Where no incidents of non-compliance are reported, report shall certify that facility is in compliance with SWPP Plan and permit keep reports with this narrative. The report shall be certified in accordance with the permit.

STORM WATER MANAGEMENT

Site runoff will reasonably follow existing flow paths and overall project impact will be minimal. Stormwater runoff will be reduced by decreasing the impervious area.

UNDERGROUND UTILITY INSTALLATION

Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:

- No more than 500 linear feet of trench may be open at one time.
- Excavated material shall be placed on the uphill side of trenches.
- Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or off-site property.
- Re-establishment of disturbed area shall be accomplished in accordance with the ESC Handbook and contract documents.

PROHIBITION OF NON-STORM WATER DISCHARGES

- The following non-storm water discharges are allowed: discharges from fire fighting activities, fire hydrant flushing, waters used to wash vehicles where detergents are not used, water used to control dust, potable water sources including waterline flushing, hydrostatic testing, routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spill material has been removed) and where detergents are not used; air conditioning condensate; uncontaminated compressor condensate; uncontaminated ground water or spring water; and foundation or footing drains where flows are not contaminated with process materials such as solvents.
- Except for allowed discharges listed above, sources of non-storm water that are combined with storm water discharges from the construction site must be identified on the plan. The plan shall identify and ensure the implementation of appropriate pollution prevention measures for the nonstorm water components.

DISPLAY & STATUS OF PLAN

Plan with a copy of the permit must be maintained on-site and kept available for site inspectors at all times from the date of commencement of construction to the date of final stabilization. Note that this narrative and RLD's log of inspection reports and all certifications are part of the plan (keep with this narrative).

The Plan with all attachments, reports, etc. shall be retained by the contractor for at least three (3) years from the date that the site is finally stabilized.

STABILIZATION & VEGETATIVE PRACTICES

- Topsoiling (TO) - Std. & Spec. 3.30
- Temporary Seeding (TS) - Std. & Spec. 3.31
- Permanent Seeding (PS) - Std. & Spec. 3.32
- Mulching (MU) - Std. & Spec. 3.35
- Soil Stabilization Blankets & Matting (B/M) - Std. & Spec. 3.36

Provide mulching to aid the establishment of temporary and permanent stabilization.

SCHEDULE

RLD shall maintain a record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated.

Perimeter controls shall be installed as a first step of construction and only after clearing and grubbing necessary for installation of the measure. Rough grading operations shall begin only as necessary to install diversions.

As rough grading is completed, provide construction road stabilization at all road and sidewalk locations as well as any temporary construction traffic routes. Stabilization measures such as seeding or mulch shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, unless construction activity will resume within twenty-one (21) days after ceasing.

All temporary ESC measures shall be removed within 30 days after final site stabilization and after the temporary measures are no longer needed as authorized by the local program administrator.

MINIMUM STANDARDS COMPLIANCE

MS-1: TS, PS, and stabilization requirements have been required in plans, notes, and specifications.

MS-2: All onsite soil stockpiles shall be stabilized per the project specifications. Any offsite areas will require stabilization via separate ESC and land disturbance permits.

MS-3: Permanent vegetative cover is required in all areas within the project limits.

MS-4: All perimeter controls and sediment trapping measures are to be installed as a first step in storm events.

MS-5: Natural channels – use 2-year storm event.

MS-6: Marbled channels – use 2- and 10-year storm event.

MS-7: Pipe and Pipe Systems – use 10-year storm event.

MS-8: Existing natural receiving channels or previously constructed man-made channel or pipe, not effectively affecting streams or off-site property.

MS-9: Natural channels – use 2-year storm event.

MS-10: Marbled channels – use 2- and 10-year storm event.

MS-11: Pipe and Pipe Systems – use 10-year storm event.

MS-12: Natural channels – use 2-year storm event.

MS-13: Marbled channels – use 2- and 10-year storm event.

MS-14: Pipe and Pipe Systems – use 10-year storm event.

MS-15: Natural channels – use 2-year storm event.

MS-16: Marbled channels – use 2- and 10-year storm event.

MS-17: Pipe and Pipe Systems – use 10-year storm event.

MS-18: Criteria for removal of ESC measures is stipulated by notes on the plans and in the project specifications.

MS-19: Not applicable. Stormwater is not concentrated.

MS-20: Not applicable. Runoff from the project will not exceed the allowable limits established in the drainage calculations.

MS-21: Not applicable. Use of existing channel will not increase downstream erosion.

MS-22: Not applicable. No improvements are planned outside of the project area.

MS-23: Not applicable. Stormwater detention is not required.

MS-24: Not applicable, no outflow leaving a detention basin.

MS-25: Not applicable, onsite channels have been confirmed to be adequate.

MS-26: Not applicable. Residential, Commercial or Industrial subdivision is performed.

MS-27: Not applicable. Construction entrance is required to be located on a paved or unpaved surface.

MS-28: Not applicable. Construction entrance is required to be located on a paved or unpaved surface.

MS-29: Not applicable. Construction entrance is required to be located on a paved or unpaved surface.

MS-30: Not applicable. Construction entrance is required to be located on a paved or unpaved surface.

MS-31: Not applicable. Construction entrance is required to be located on a paved or unpaved surface.

MS-32: Not applicable. Construction entrance is required to be located on a paved or unpaved surface.

MS-33: Not applicable. Construction entrance is required to be located on a paved or unpaved surface.

MS-34: Not applicable. Construction entrance is required to be located on a paved or unpaved surface.

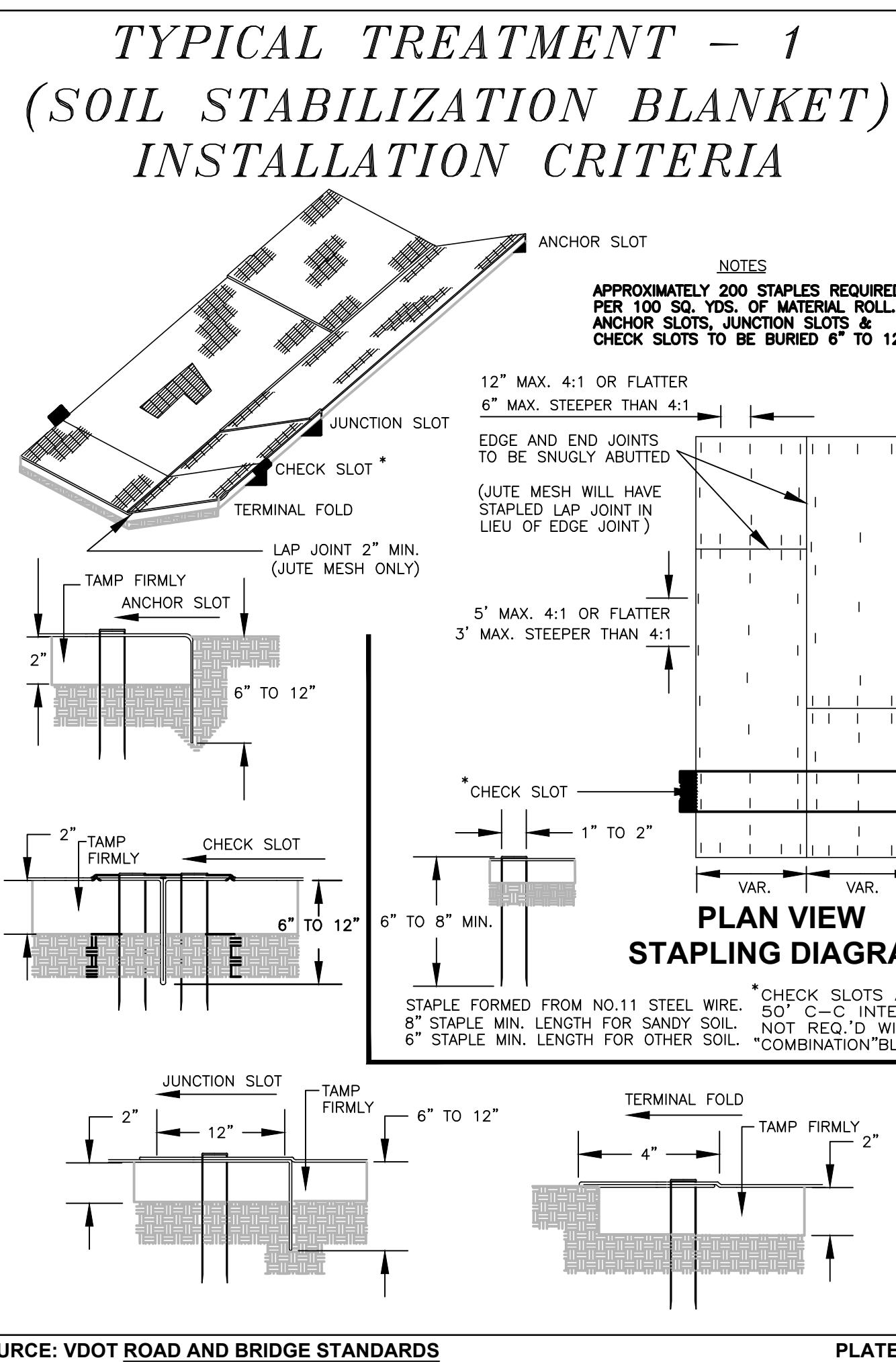
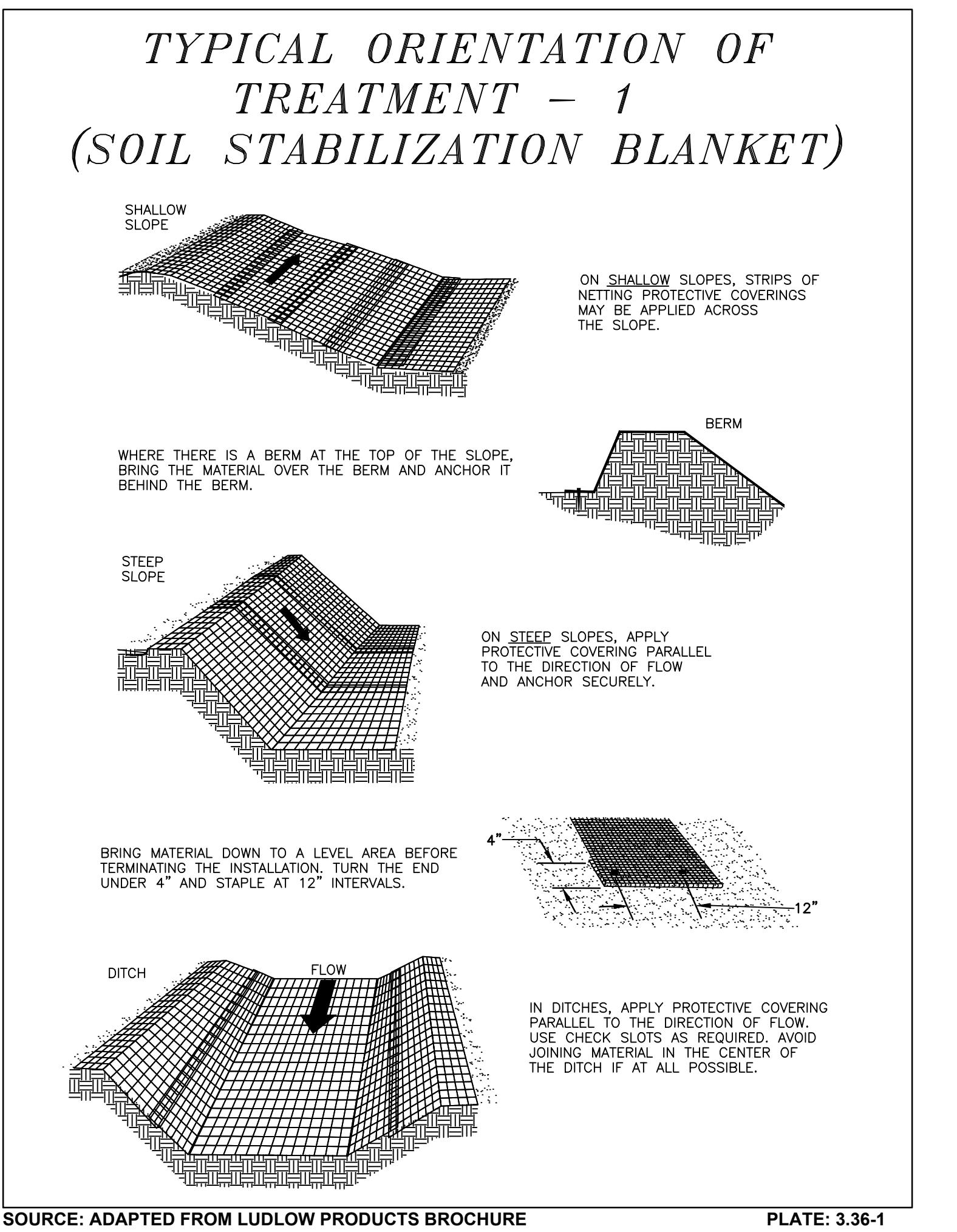
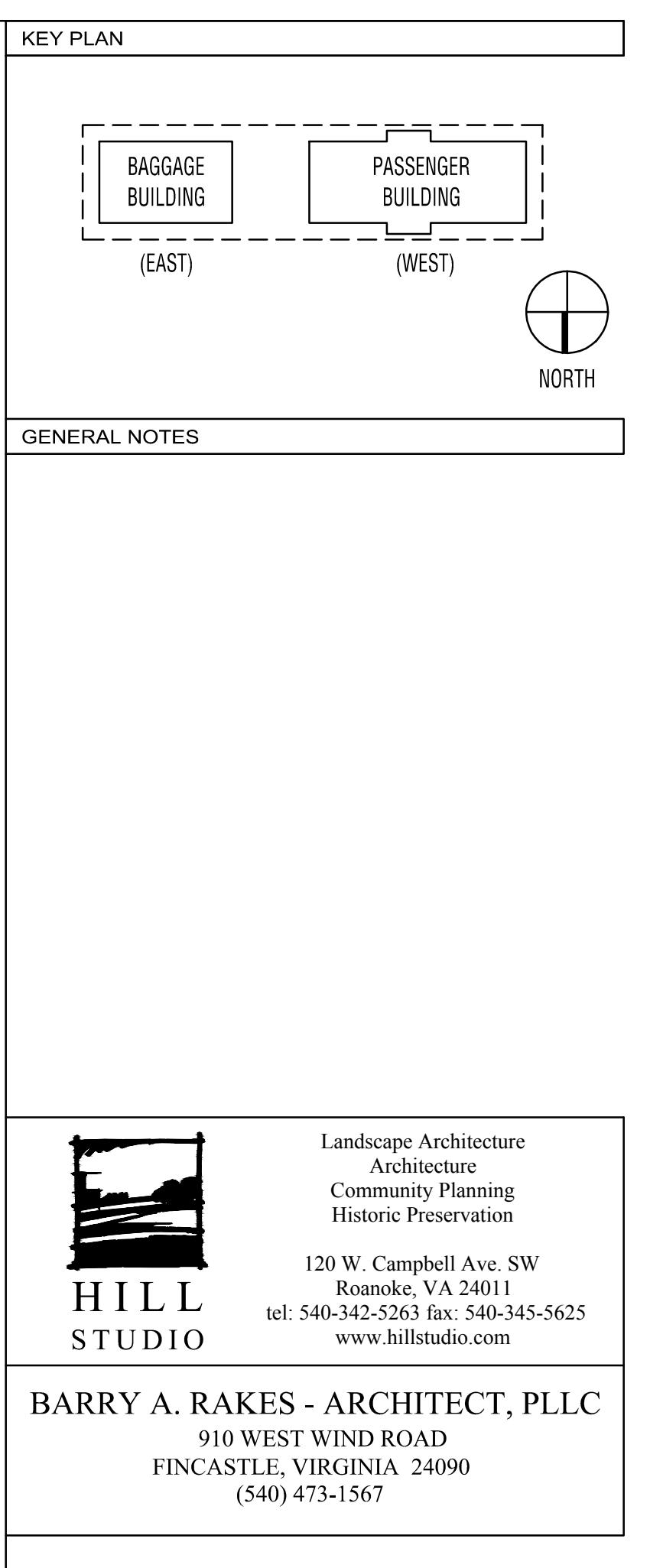
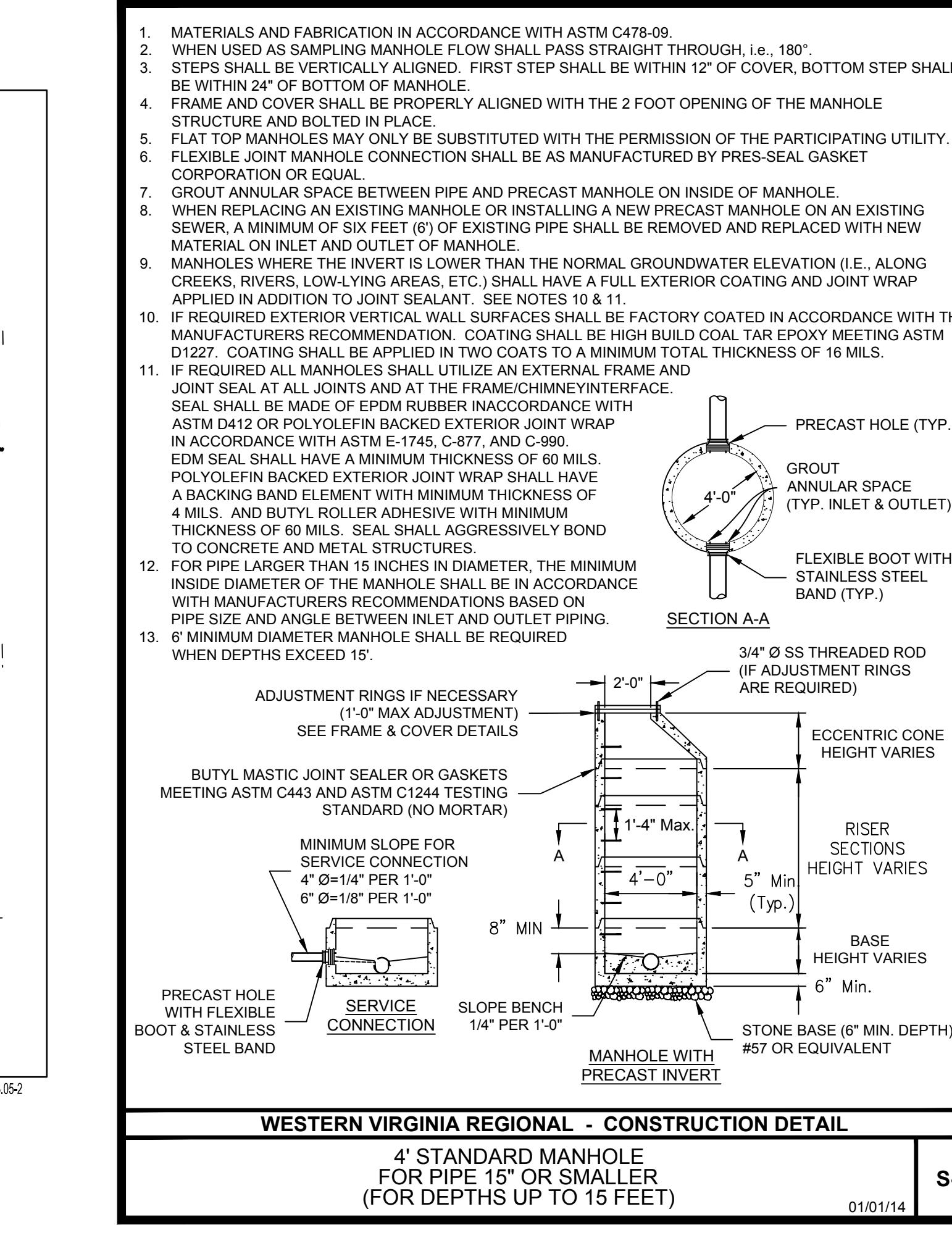
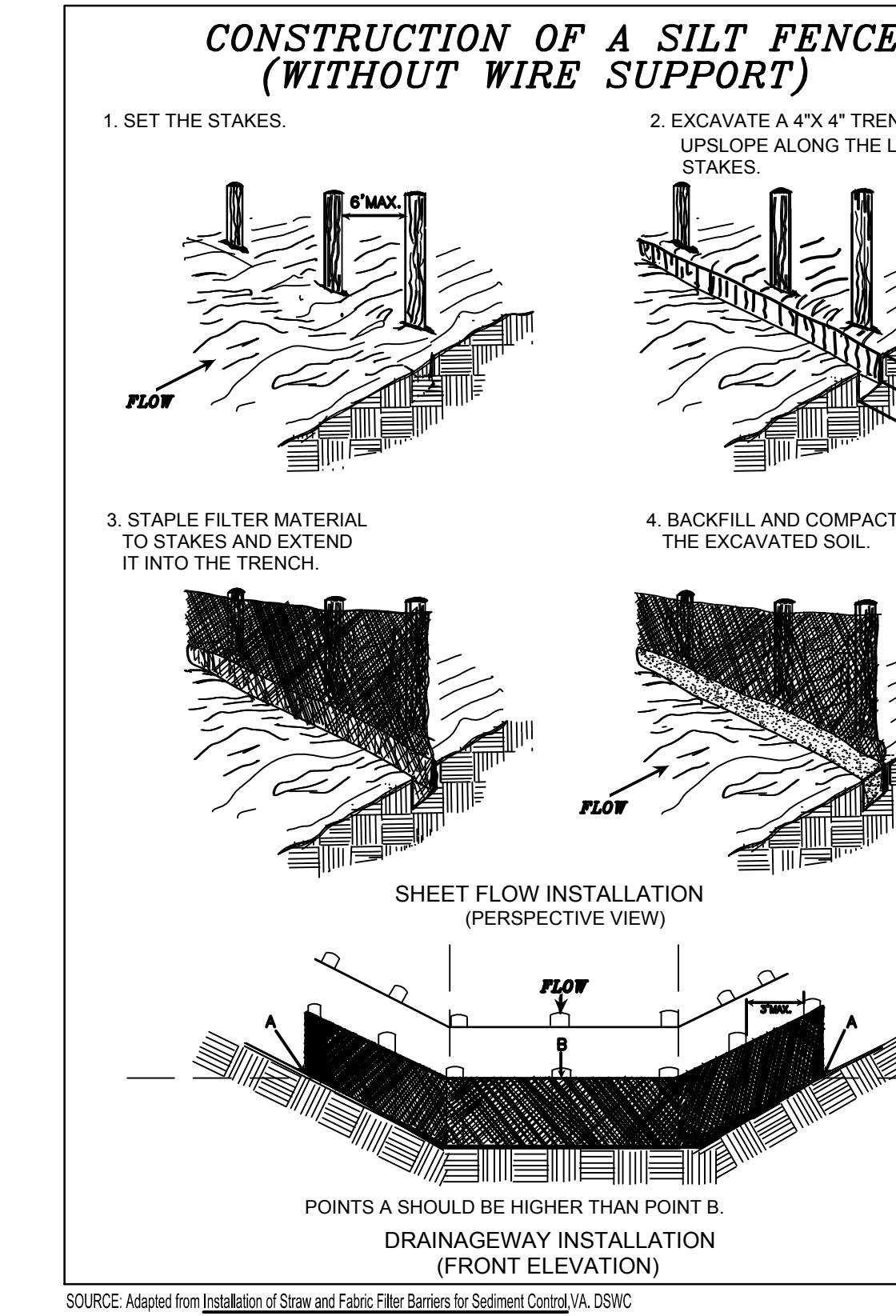
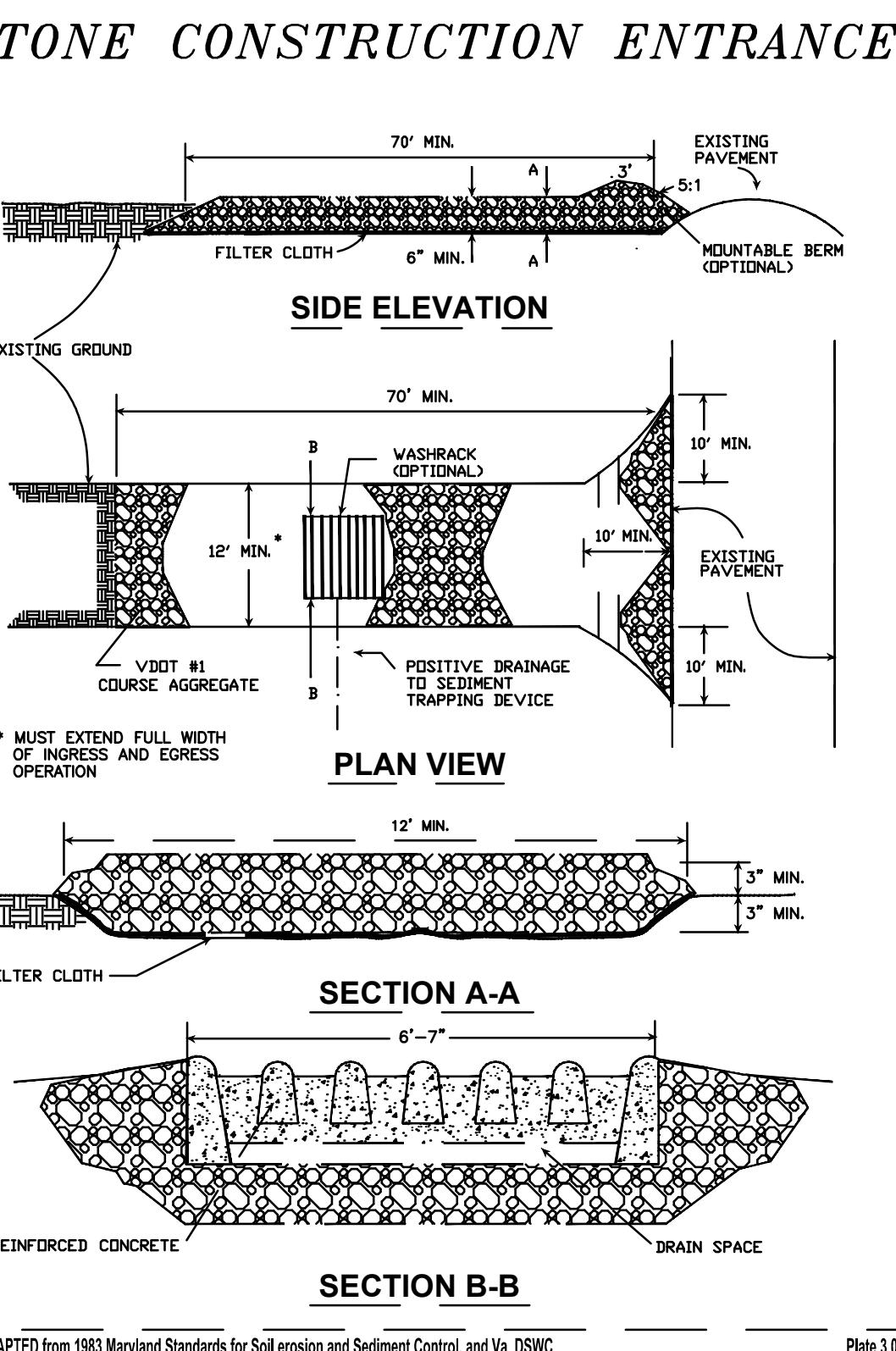
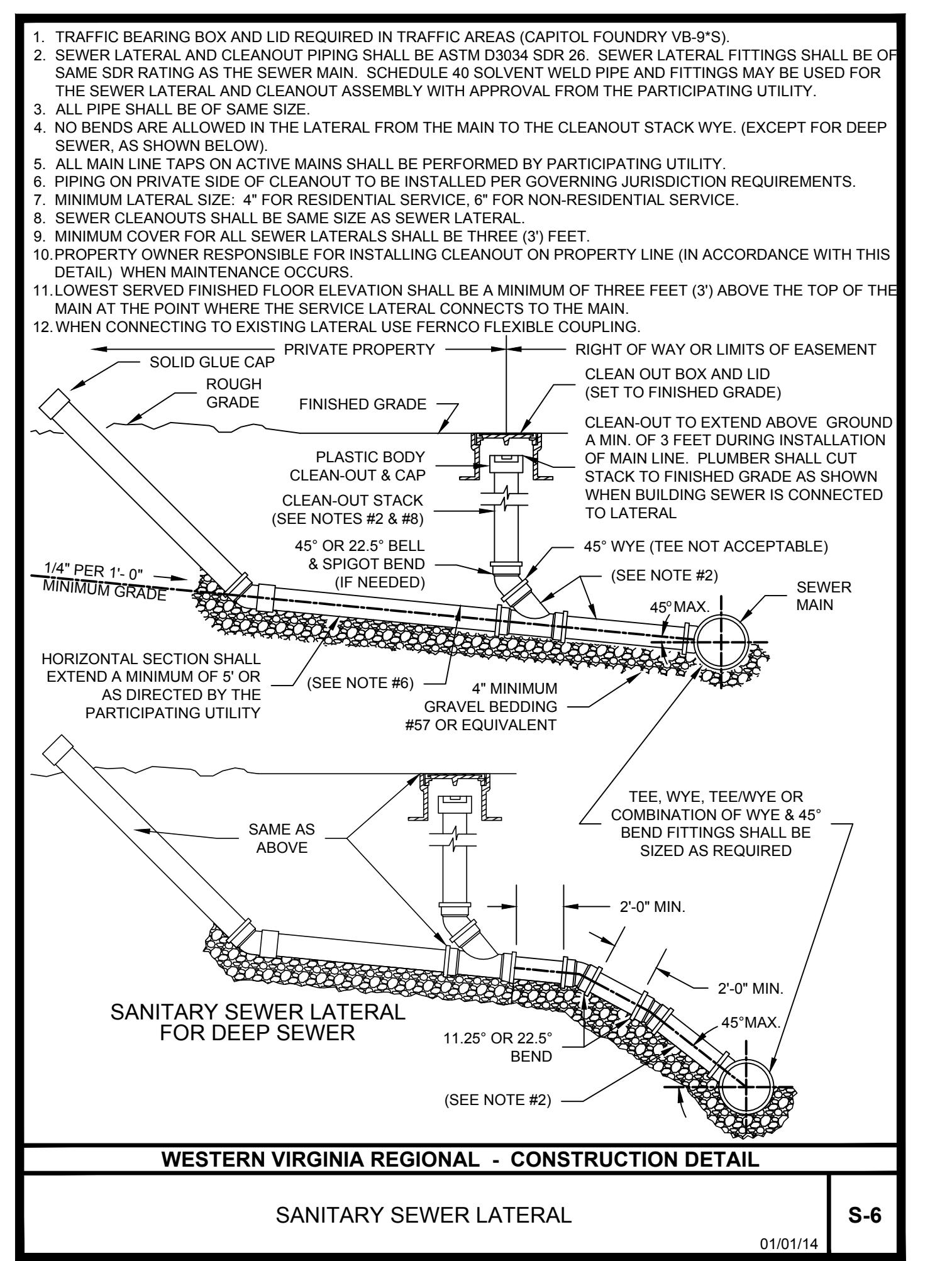
MS-35: Not applicable. Construction entrance is required to be located on a paved or unpaved surface.

MS-36: Not applicable. Construction entrance is required to be located on a paved or unpaved surface.

MS-37: Not applicable. Construction entrance is required to be located on a paved or unpaved surface.

MS-38: Not applicable. Construction entrance is required to be located on a paved or unpaved surface.

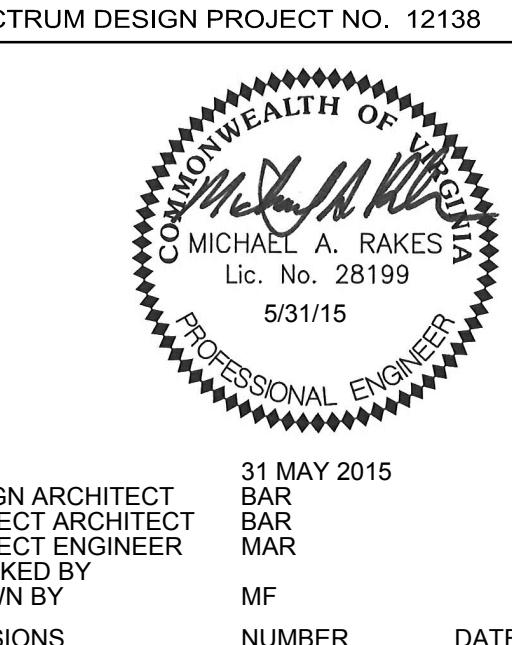
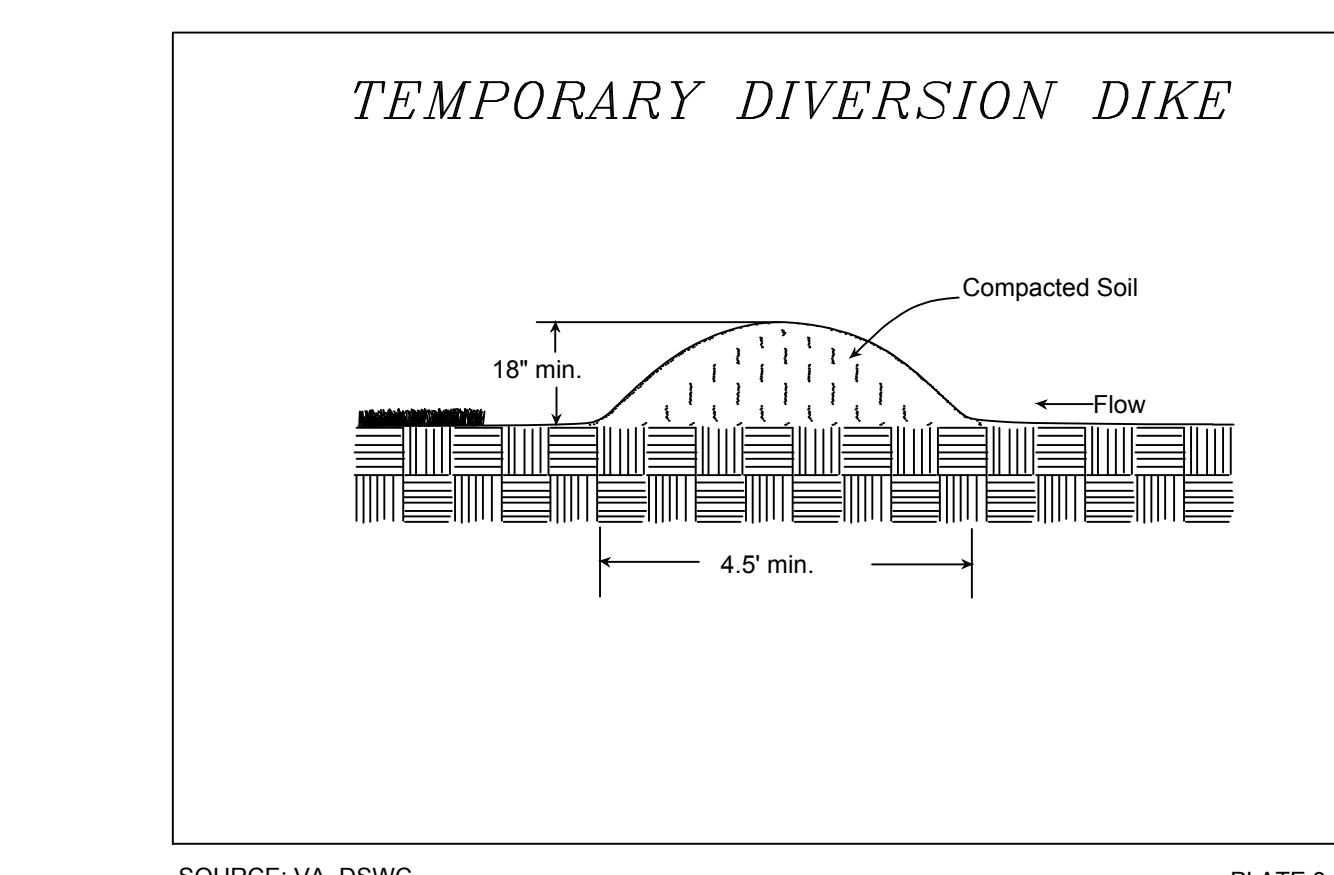
MS-39: Not applicable. Construction entrance is required to be located on a paved or unpaved surface.



SEEDING TABLE					
PLANTING DATES	ACCEPTABLE PLANT SPECIES	SCIENTIFIC NAME	SEEDING RATE (LBS/ACRE)	SOIL pH	LIMING RATE (TON/ACRE)
SEPT 1 - FEB 15	50/50 MIX OF ANNUAL RYEGRASS AND WINTER RYE	LOLIUM MULTIFLORUM AND SECALE CEREALE	50 - 100	BELLOW 4.2 4.2 TO 5.2 5.2 TO 6	3 2 1
FEB 16 - APR 30	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	60 - 100		
MAY 1 - AUG 31	FOXTAIL MILLET	SEIGRAVIA ITALICA	50 - 100		

PERMANENT SEEDING REQUIREMENTS (EXCERPT FROM 3.32-C)					
SEED SPECIES	PERCENT OF TOTAL	SEEDING RATE (LBS/ACRE)			
IMPROVED TALL FESCUE	90-94%	200-250	IMPROVED FESCUE COMPONENT SHALL BE COMPRISED OF THREE SUBSPECIES, EACH COMPRISING OF 20-40% OF THE FESCUE COMPONENT. BLUEGRASS COMPONENT SHALL ALSO BE COMPRISED OF THREE SUBSPECIES. RYEGRASS COMPONENT SHALL BE SELECTED BASED ON THE SEEDING DATE AS PROVIDED IN TABLE 3.32-C IN THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK.		
KENTUCKY BLUEGRASS	3-10%				
IMPROVED PERENNIAL RYEGRASS	3-10%				

MULCHING TABLE (EXCERPT FROM 3.35-A)		
MULCHES	RATE (LBS/1000 SF)	NOTES
STRAW OR HAY	70 - 90	FREE FROM WEEDS AND COARSE MATTER. MUST BE ANCHORED. SPREAD BY MULCH BLOWER OR BY HAND.
FIBER MULCH	35 MIN.	DO NOT USE FIBER MULCH FOR WINTER COVER OR DURING HOT, DRY PERIODS. APPLY AS SLURRY.



DATE: 31 MAY 2015
 DESIGN ARCHITECT: BAR
 PROJECT ENGINEER: BAR
 CHECKED BY: MAR
 DRAWN BY: MF
 REVISIONS: NUMBER
 DATE:

SHEET TITLE: ESC DETAILS

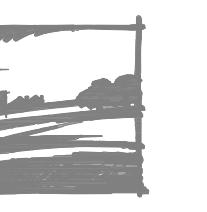
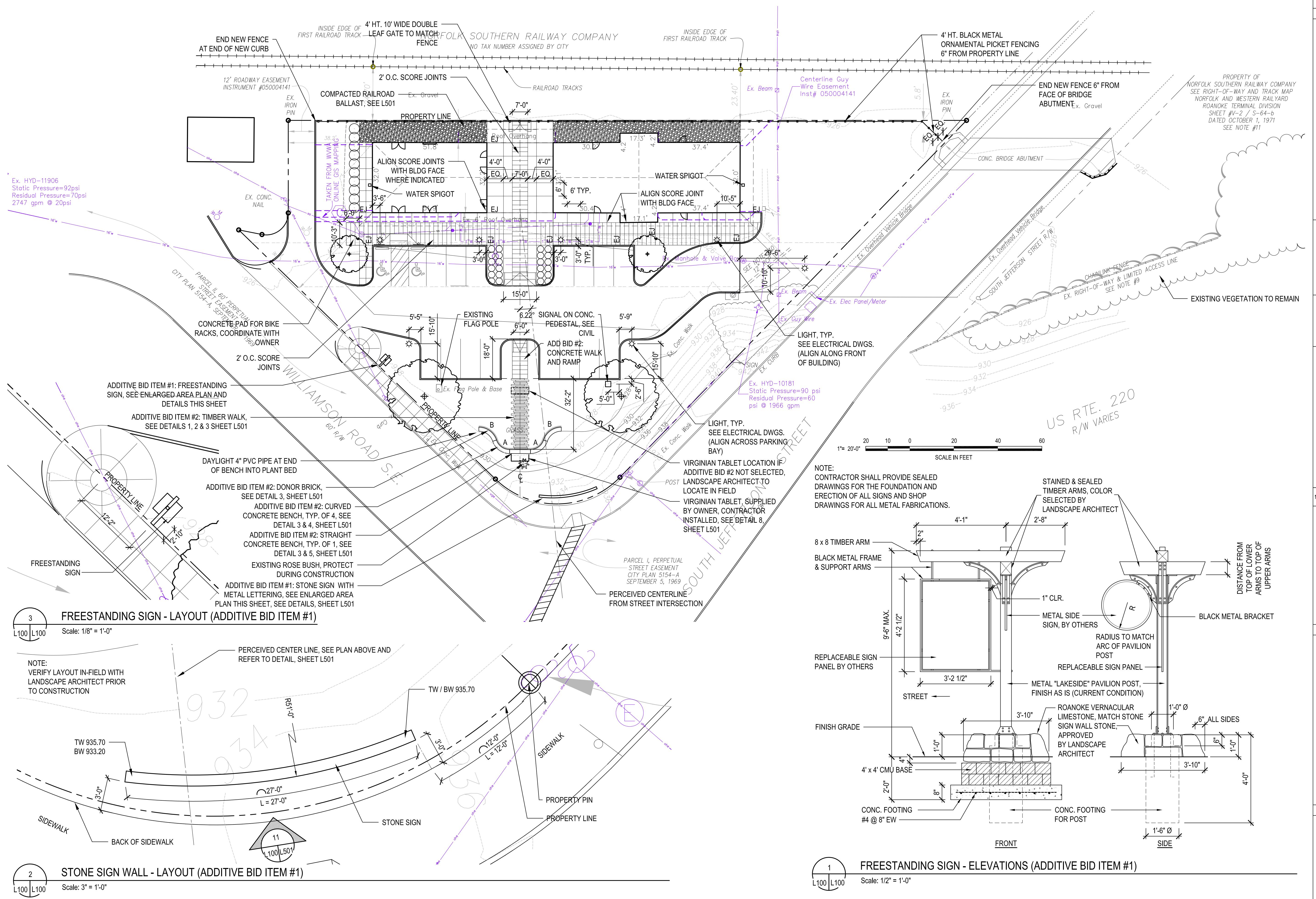
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KEY PLAN



PLAN
NORTH

GENERAL NOTES



Landscape Architecture
Architecture
Community Planning
Historic Preservation

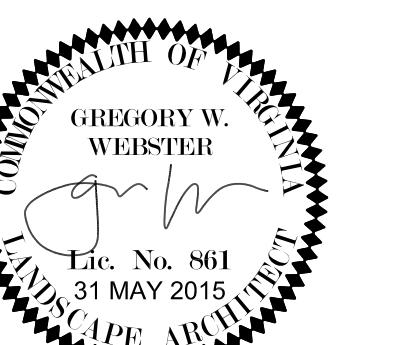
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SPECTRUM DESIGN
architects | engineers

**VIRGINIAN RAILWAY
PASSENGER STATION
PHASE II - RESTORATION
VDOT UPC # 103592
TATE PROJ# EN05-128-325, C502**

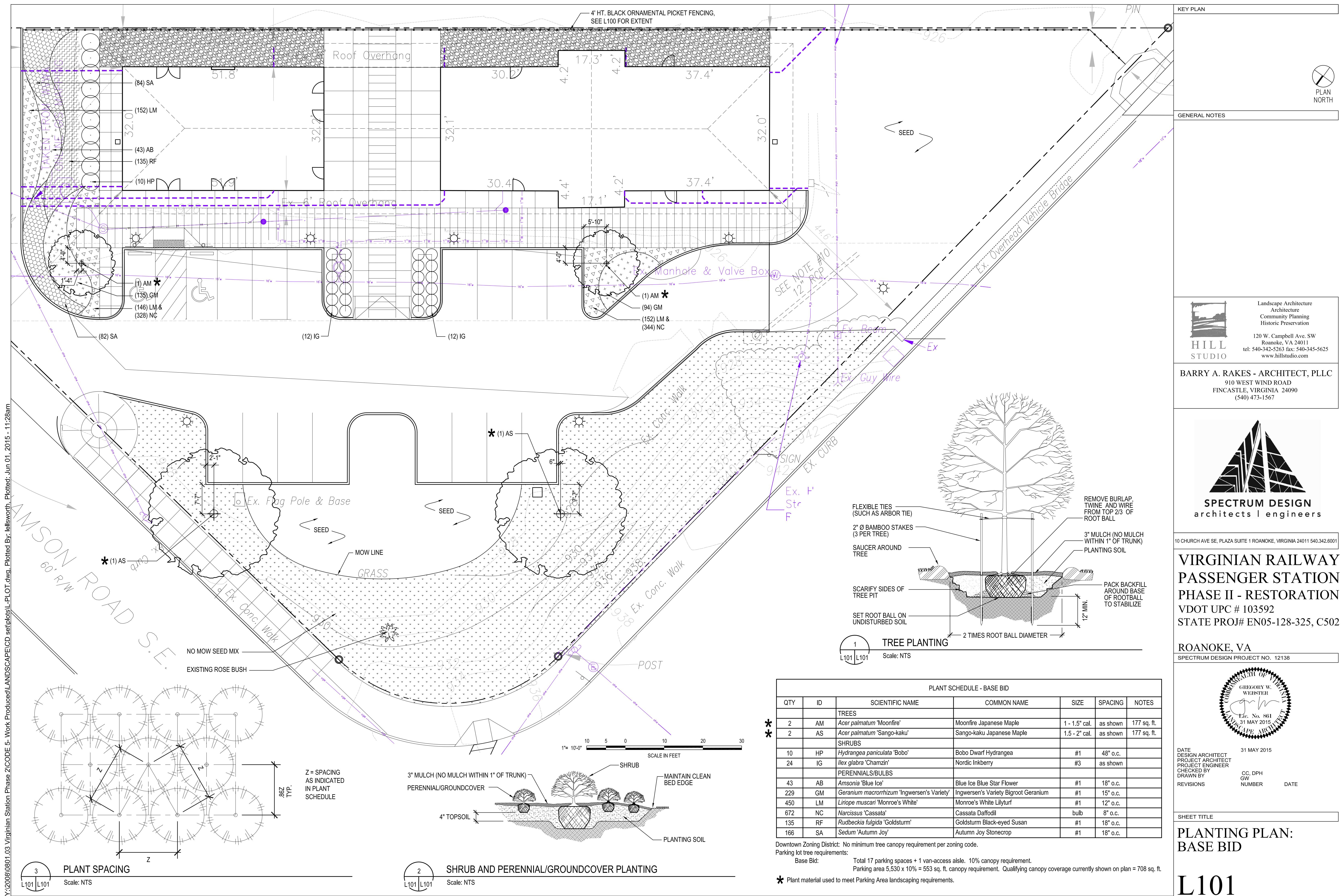
ROANOKE VA

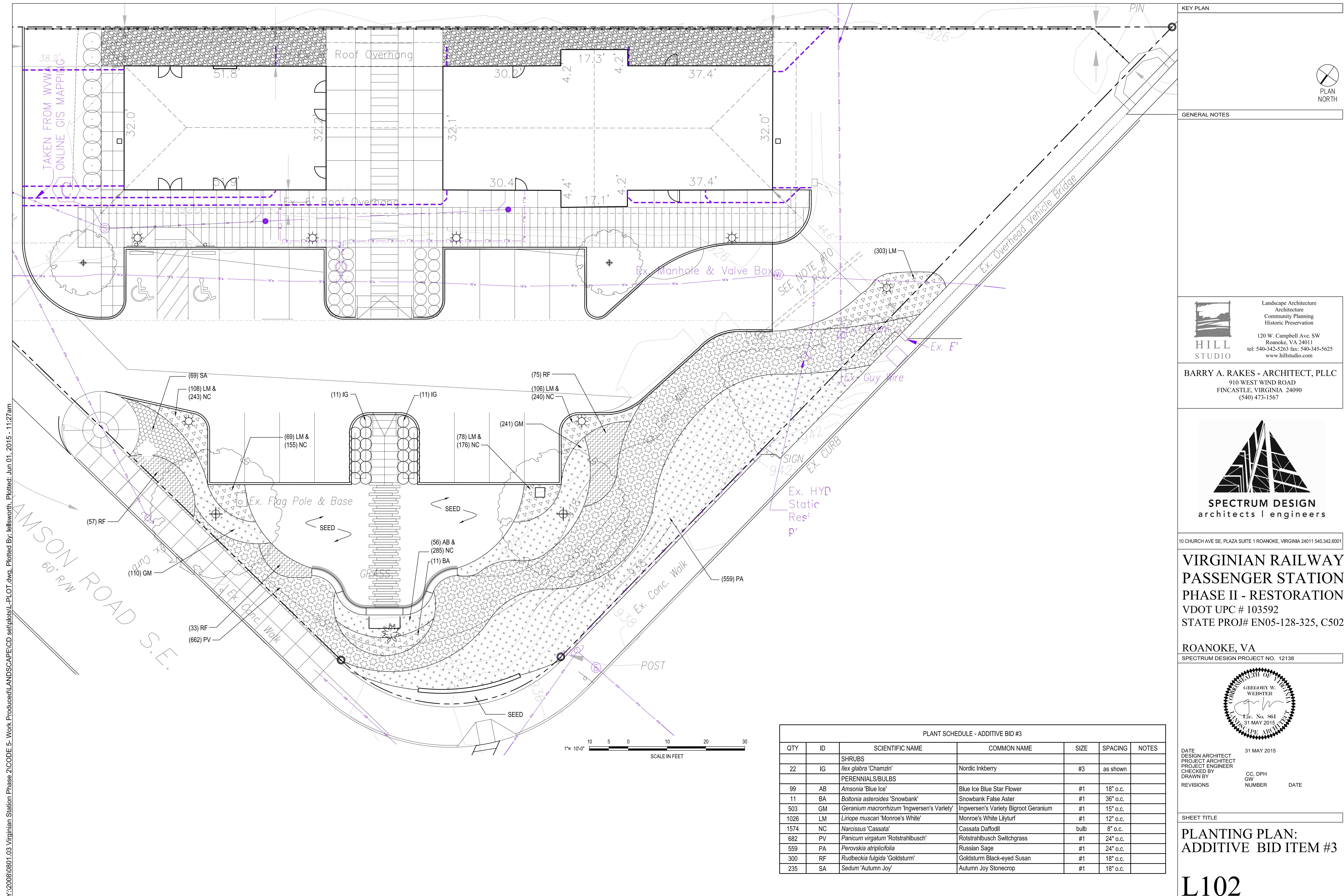


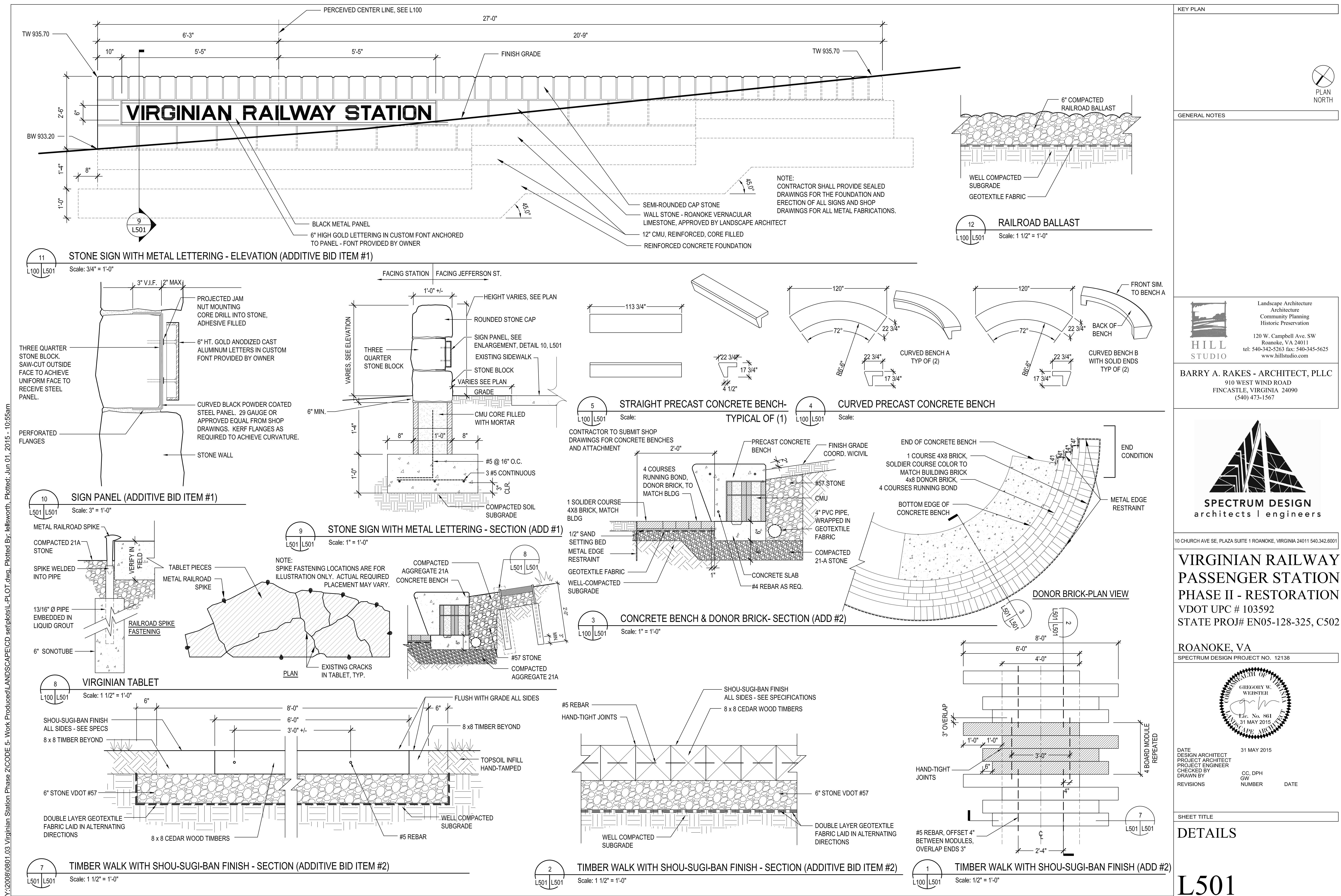
DATE 31 MAY 2015
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PROJECT ARCHITECT
PROJECT ENGINEER
CHECKED BY CC, DPH
DRAWN BY GW
VISIONS NUMBER DATE

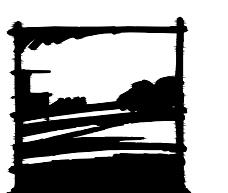
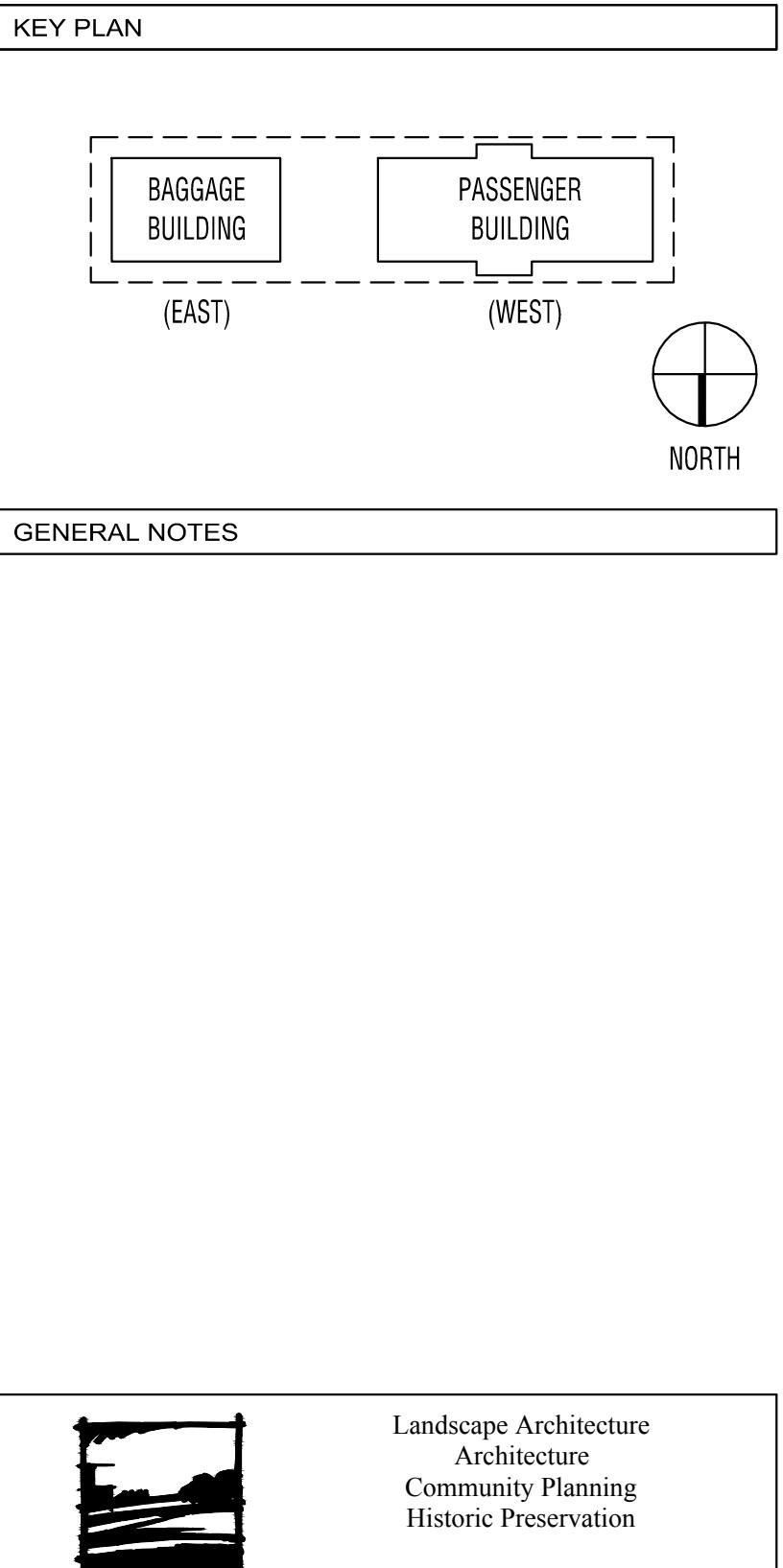
LANDSCAPE PLAN

L100





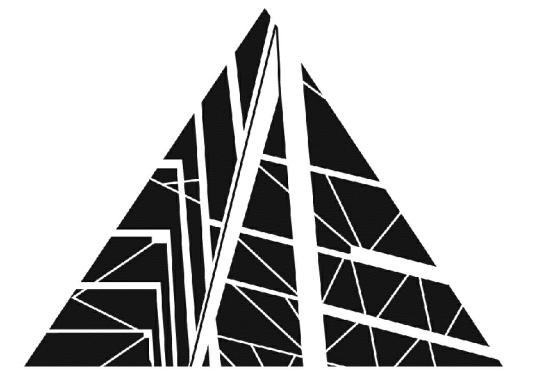




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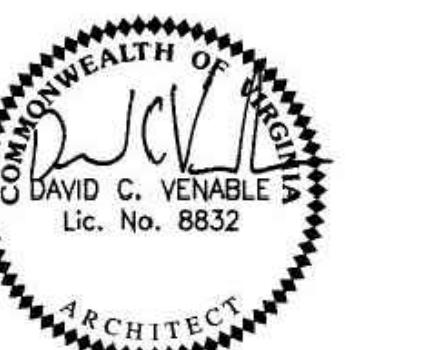
SPECTRUM DESIGN
architects | engineers

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VIRGINIAN RAILWAY
PASSENGER STATION
PHASE II - RESTORATION
VDOT UPC # 103592
STATE PROJ# EN05-128-325, C502

ROANOKE, VA

SPECTRUM DESIGN PROJECT NO. 12138



DATE: 31 MAY 2015
DESIGN ARCHITECT: BAR
PROJECT ARCHITECT: BAR
PROJECT ENGINEER: DCV
CHECKED BY: MBD
DRAWN BY: MBD
REVISIONS: NUMBER
REVISIONS: DATE

SHEET TITLE: LIFE SAFETY PLAN
LS1

LIFE SAFETY PLAN

LEGEND

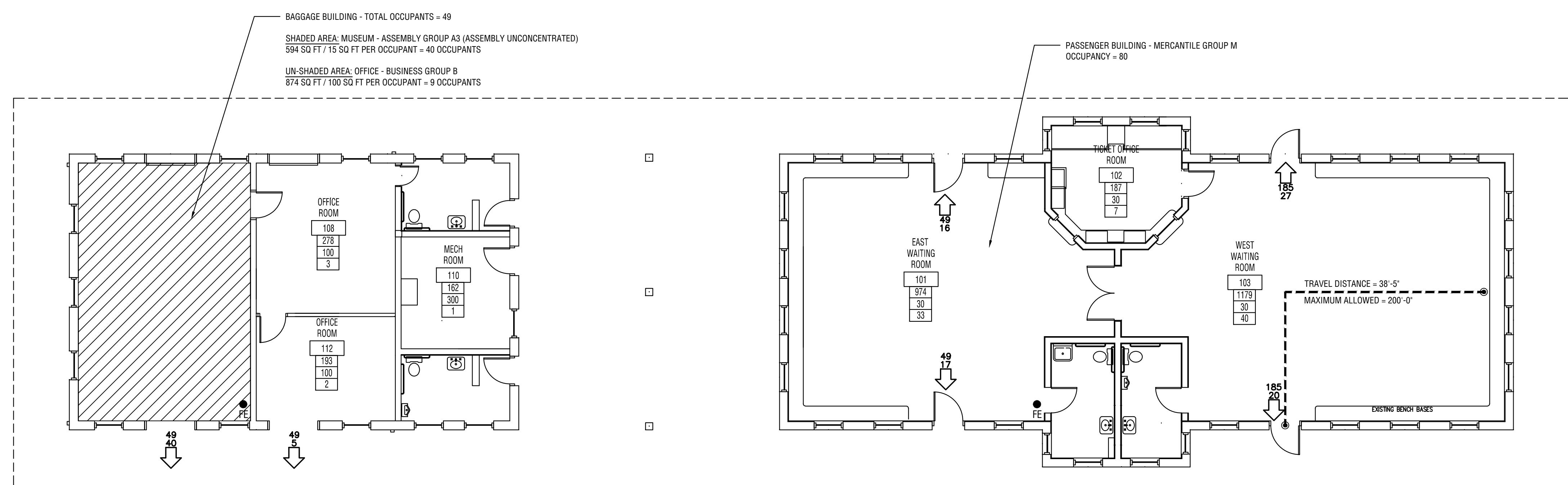
EXISTING BUILDINGS ASSUMED TYPE IIIB
NO SPRINKLER SYSTEM
UN-SEPARATED MIXED USE

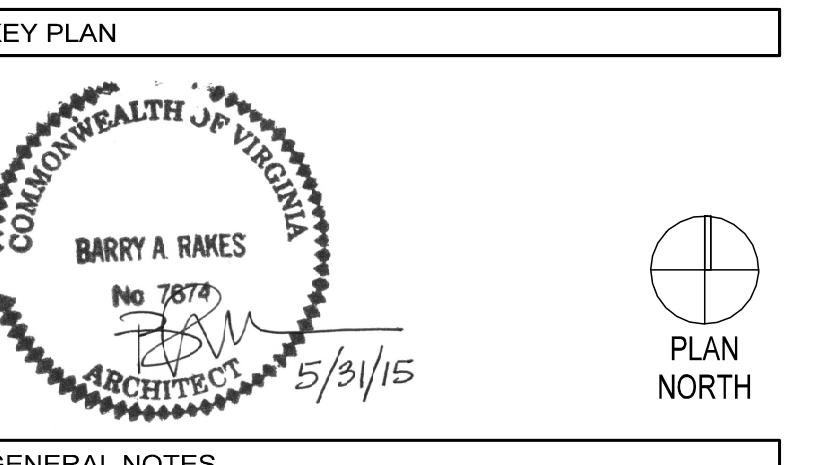
BAGGAGE BUILDING:
1659 SQ FT GROSS
ASSEMBLY GROUP A3
BUSINESS GROUP B

PASSENGER BUILDING:
2855 SQ FT GROSS
MERCANTILE GROUP M

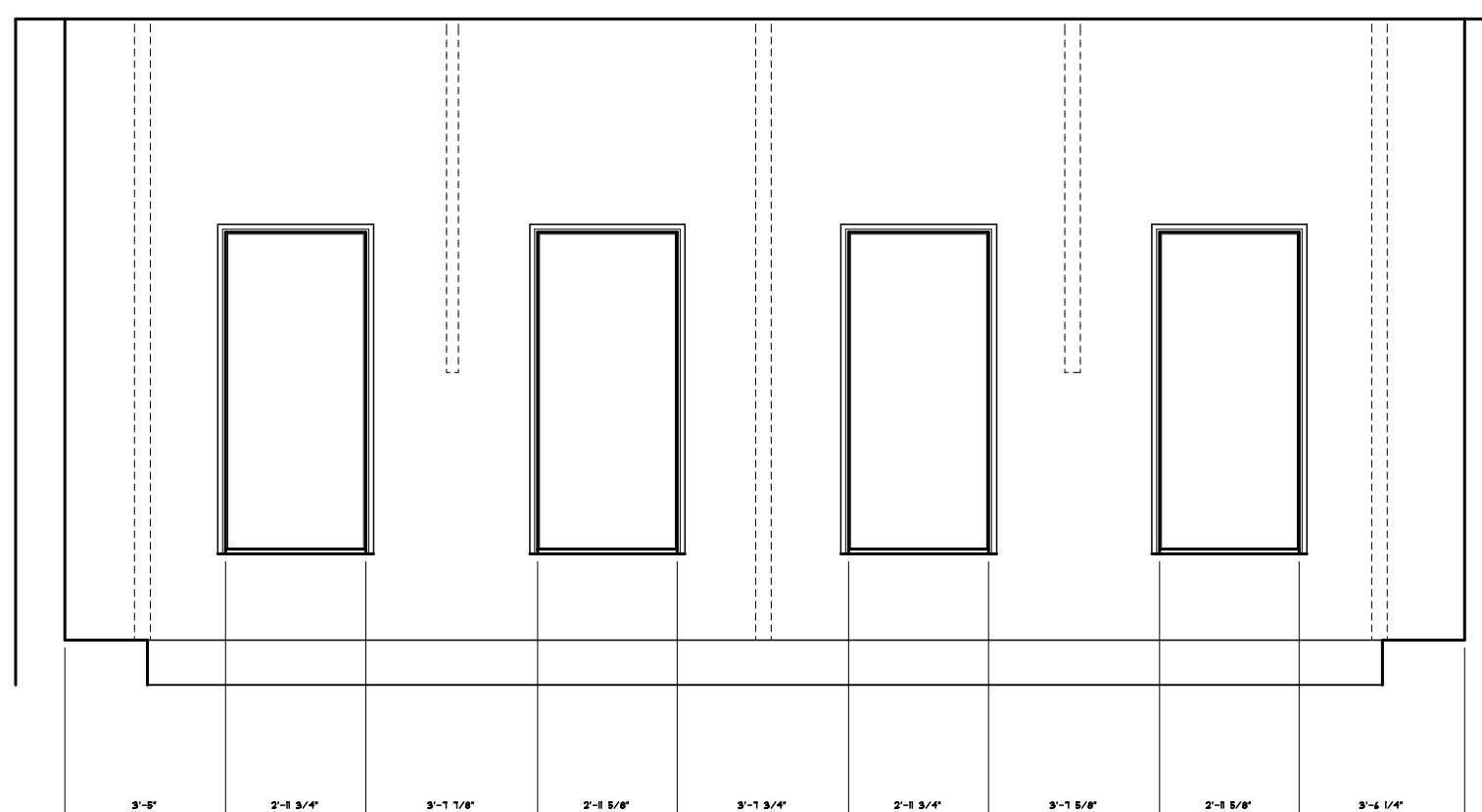
TOTAL GROSS SF = 4514
< 9500 ALLOWABLE A2 (TABLE 503)

MAX TRAVEL DISTANCE
FIRE EXTINGUISHER
ROOM NAME
ROOM NUMBER
ROOM SQUARE FOOTAGE
SF / PER OCCUPANT
OCCUPANCY LOAD
EGRESS CAPACITY
ACTUAL EGRESS LOAD

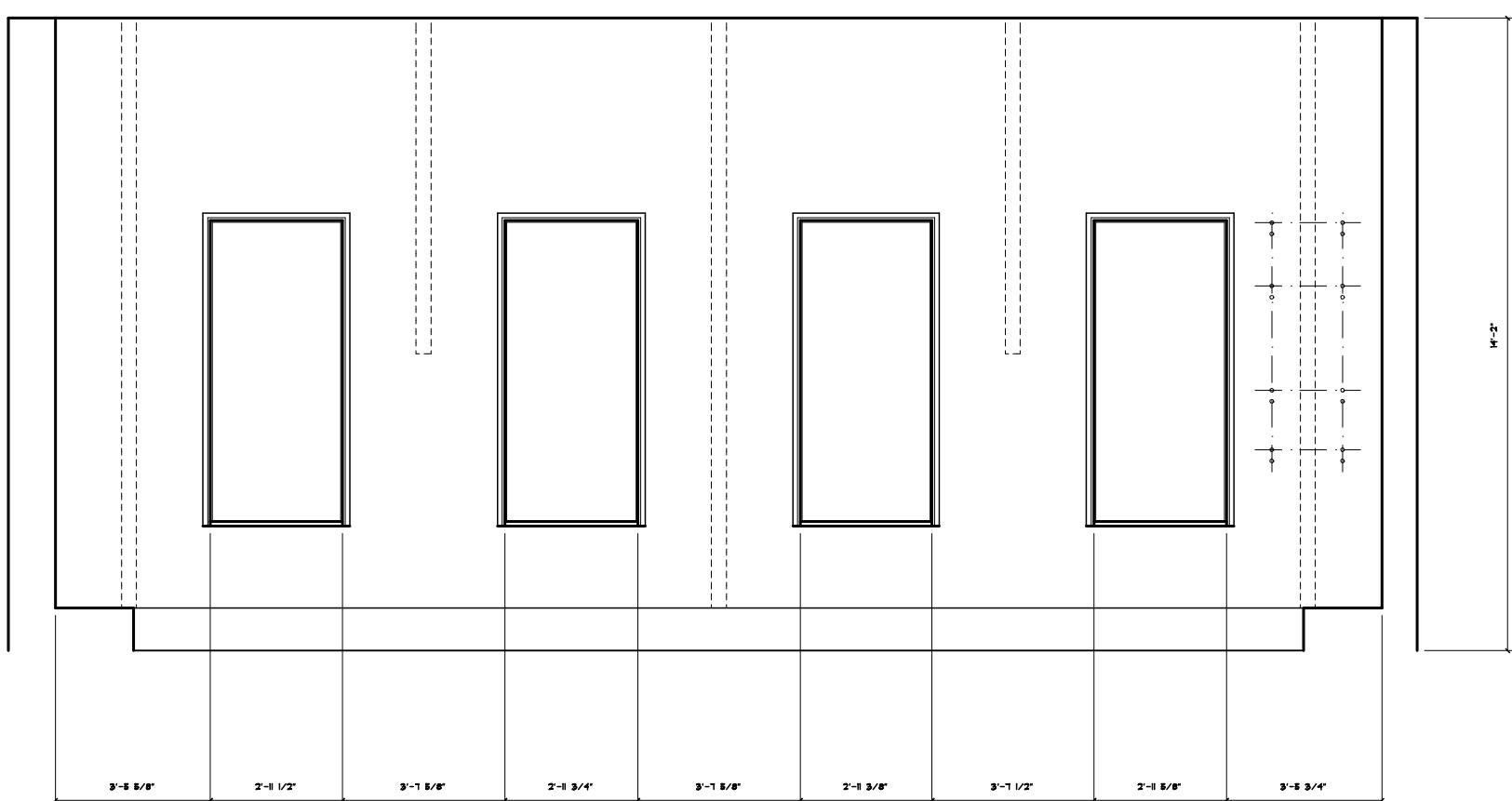




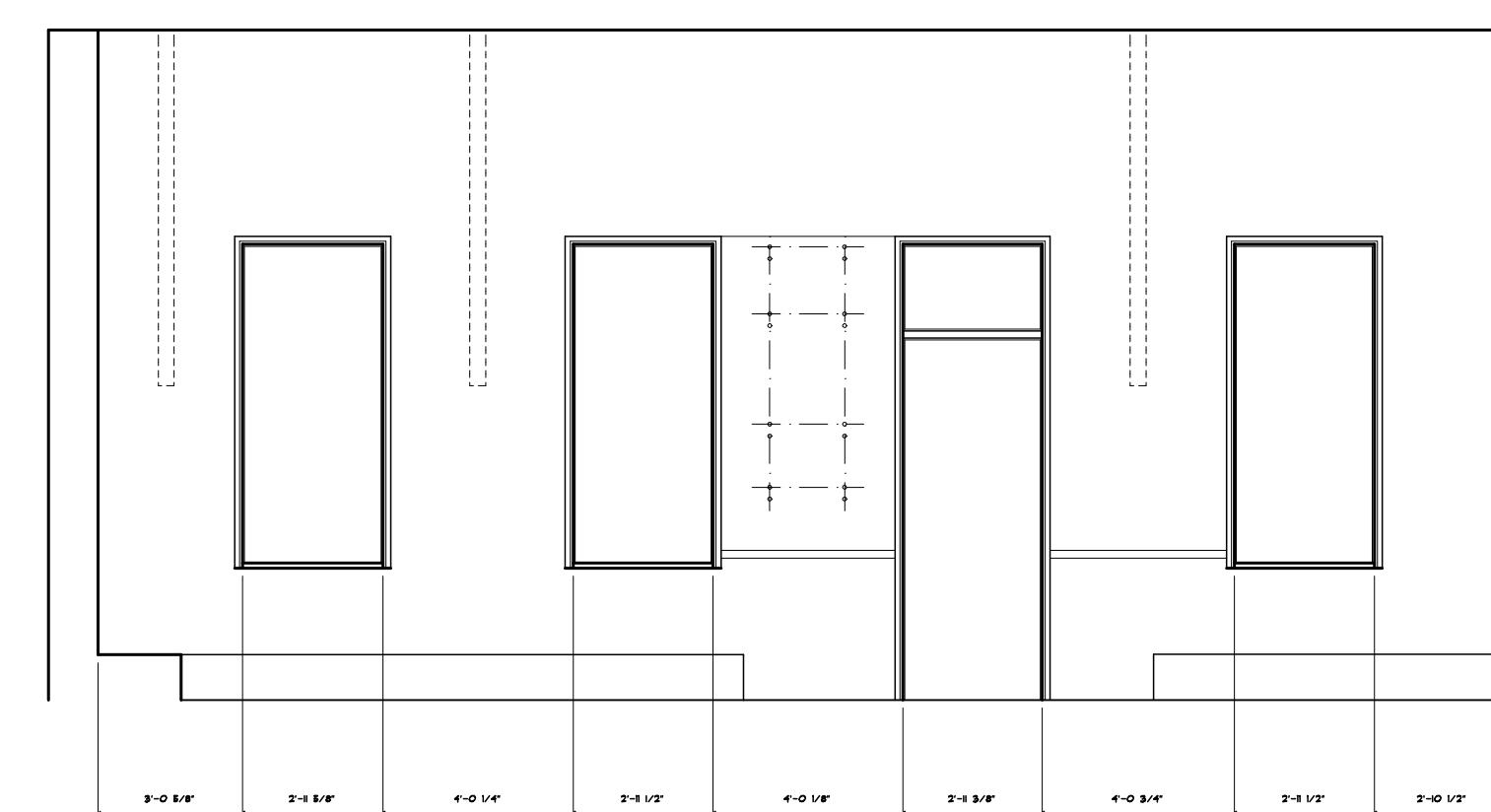
PLAN
NORTH



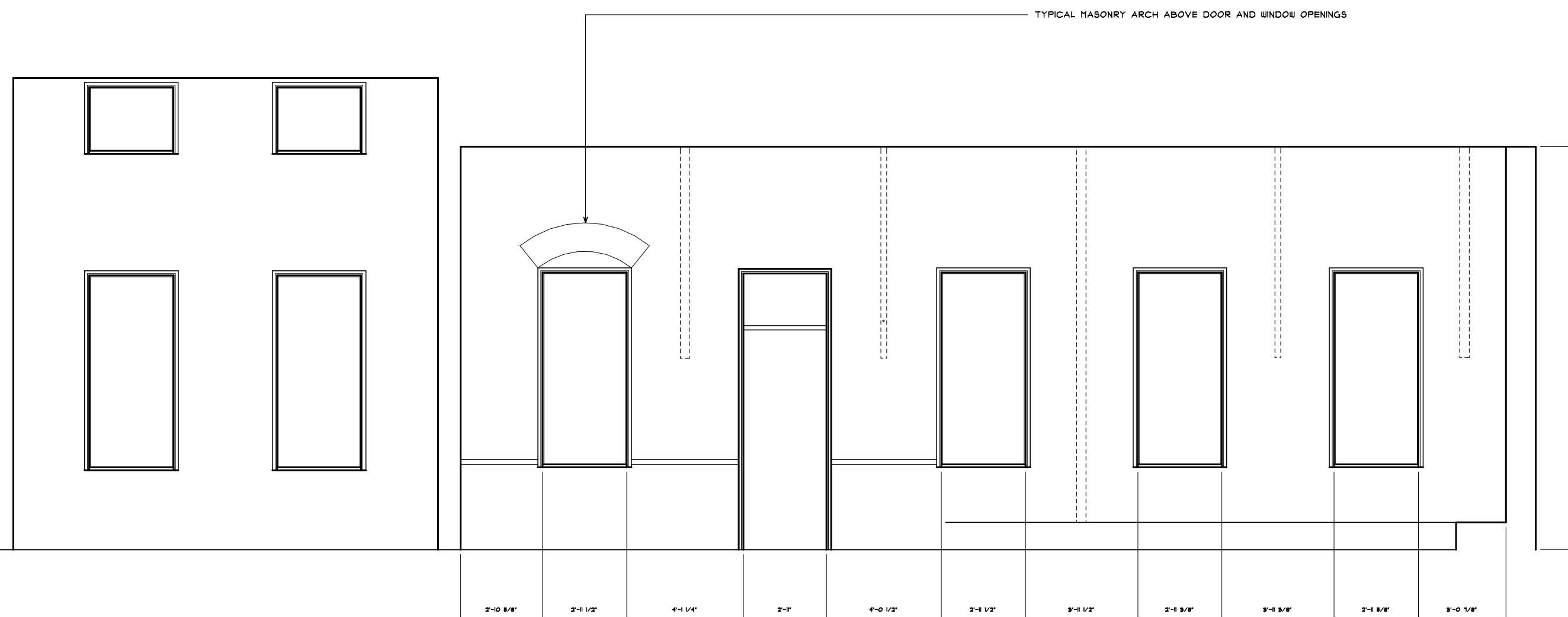
WEST WAITING ROOM - WEST WALL



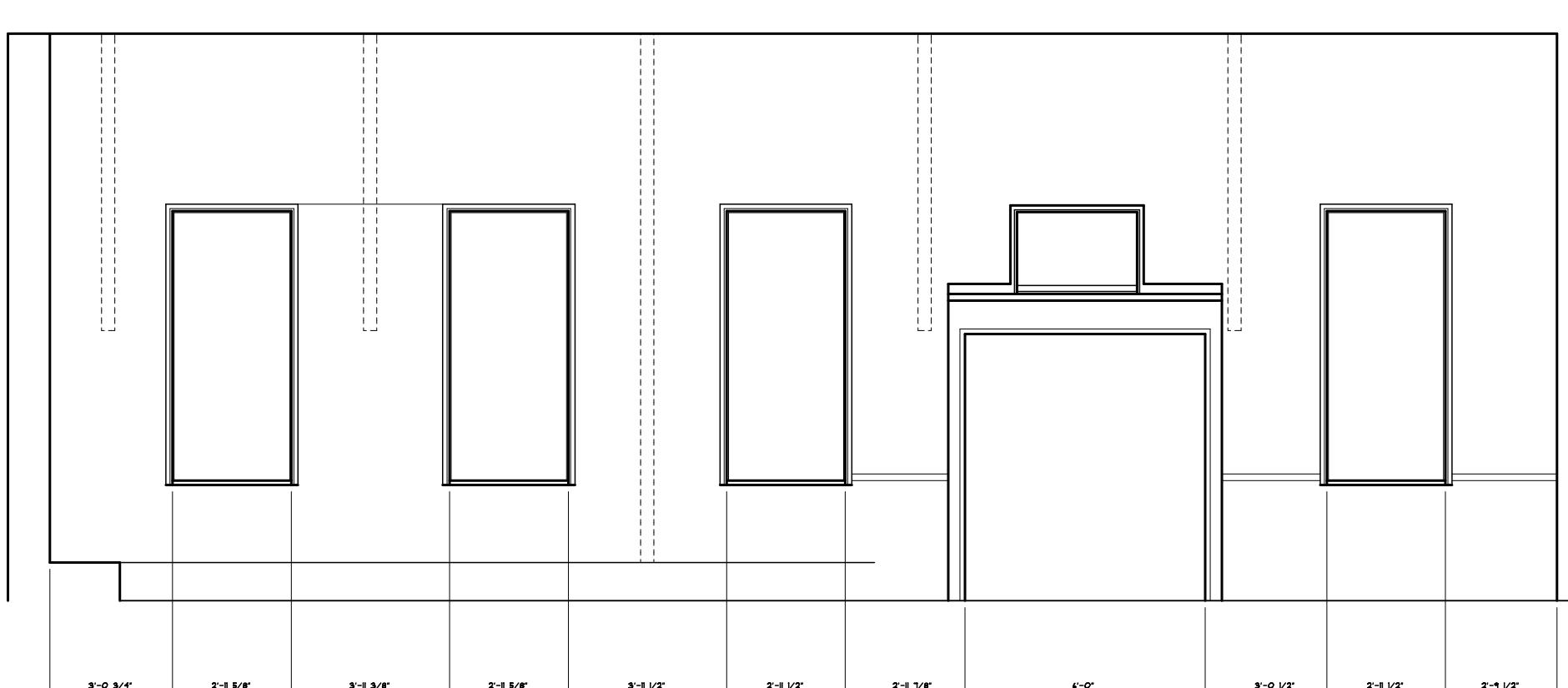
EAST WAITING ROOM - EAST WALL



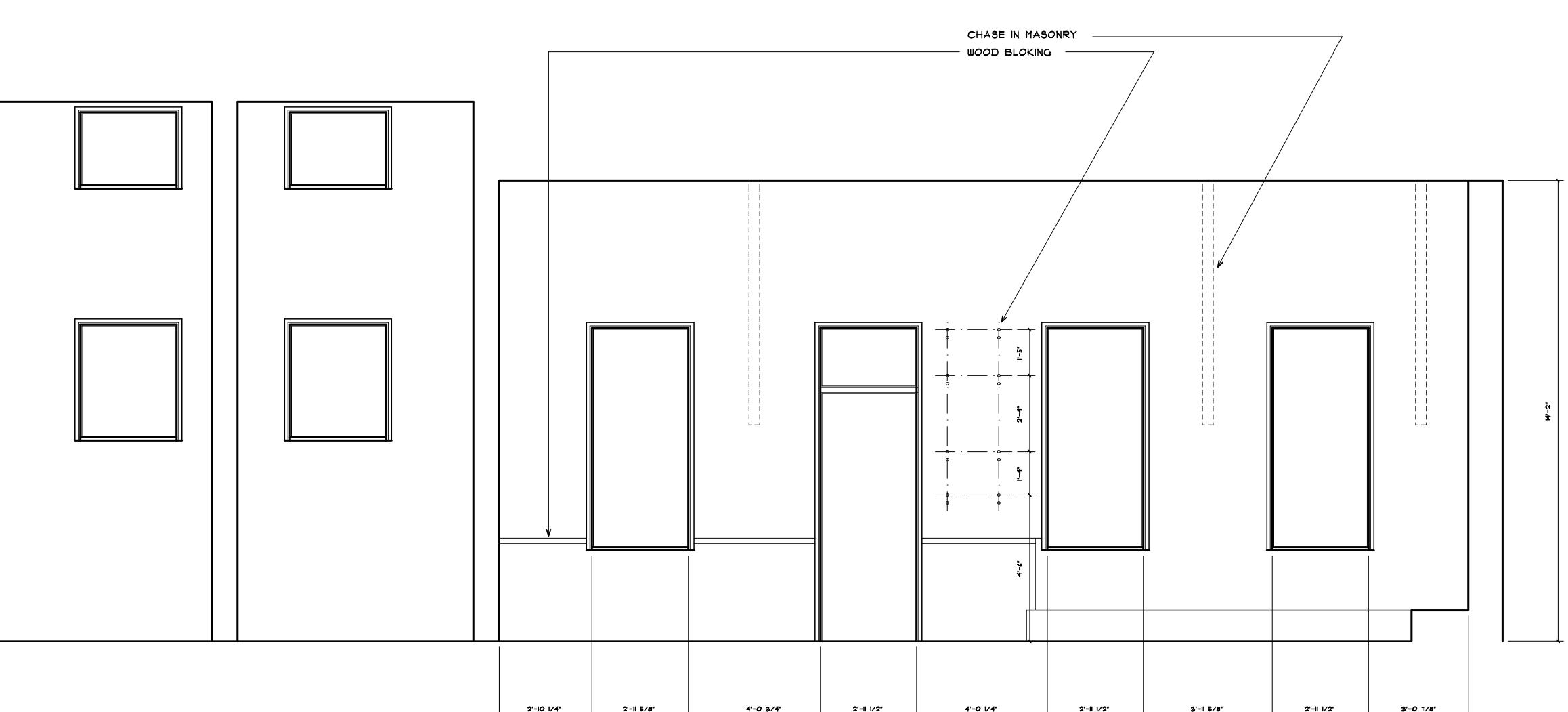
WEST WAITING ROOM - SOUTH WALL



EAST WAITING ROOM - SOUTH WALL



WEST WAITING ROOM - NORTH WALL



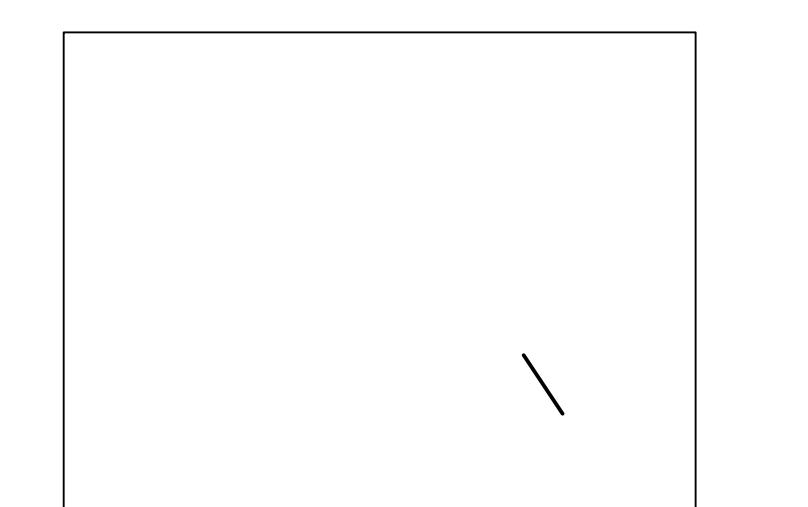
EAST WAITING ROOM - NORTH WALL

EXISTING CONDITIONS INTERIOR ELEVATION - PASSENGER STATION

1/4" = 1'-0"



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VIRGINIAN RAILWAY PASSENGER STATION PHASE II - RESTORATION

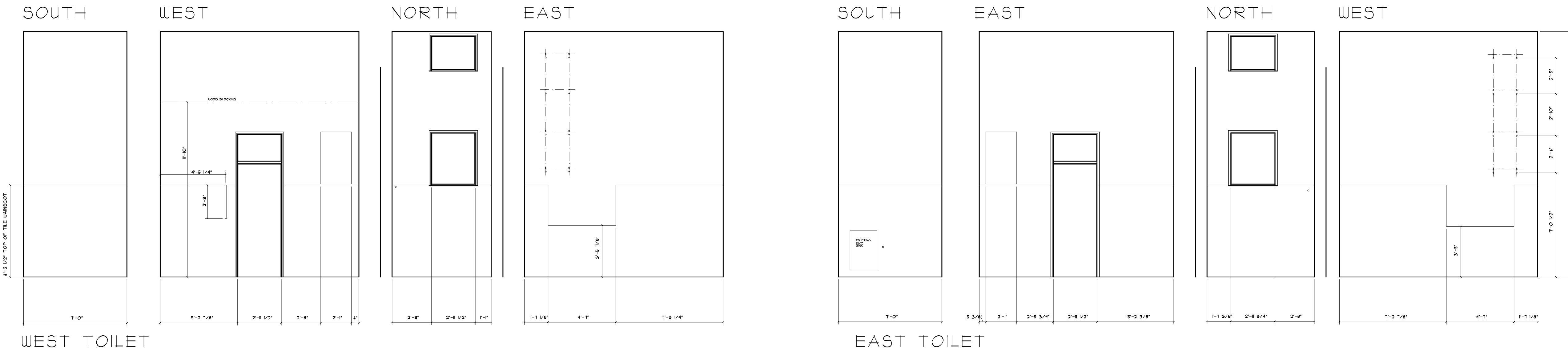
VDOT UPC # 103592
STATE PROJ# EN05-128-325, C502

ROANOKE, VA
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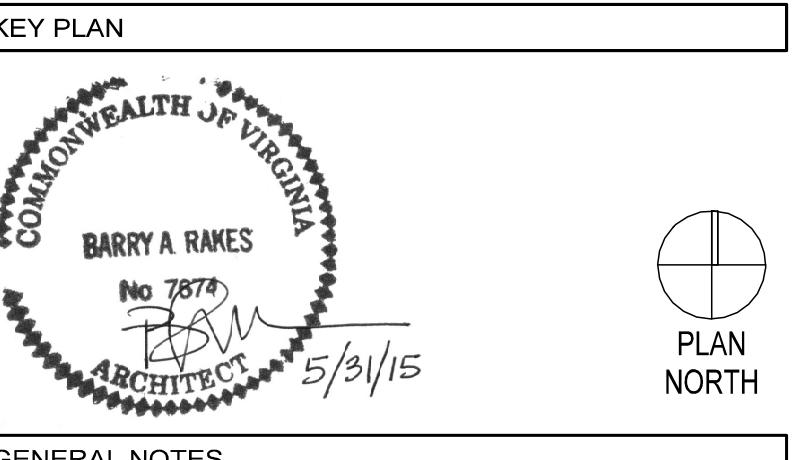
SHEET TITLE EXISTING INTERIOR ELEVATIONS





WEST TOILET

EAST TOILET



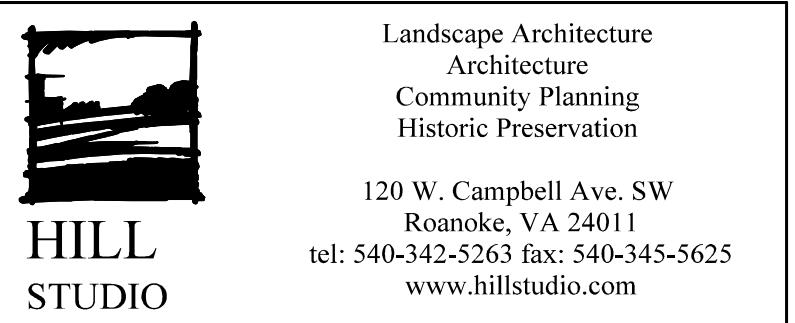
GENERAL NOTES

The logo consists of a circle divided into four quadrants by a horizontal and a vertical line. The word "PLAN" is written vertically below the circle, and "NORTH" is written vertically below "PLAN".



WEST WAITING ROOM

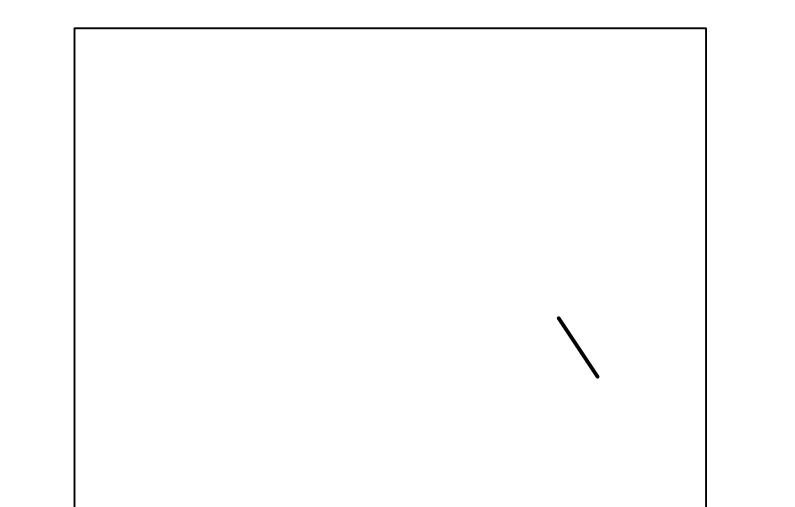
EAST WAITING ROOM



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VIRGINIAN RAILWAY PASSENGER STATION PLAZA II RESTORATION

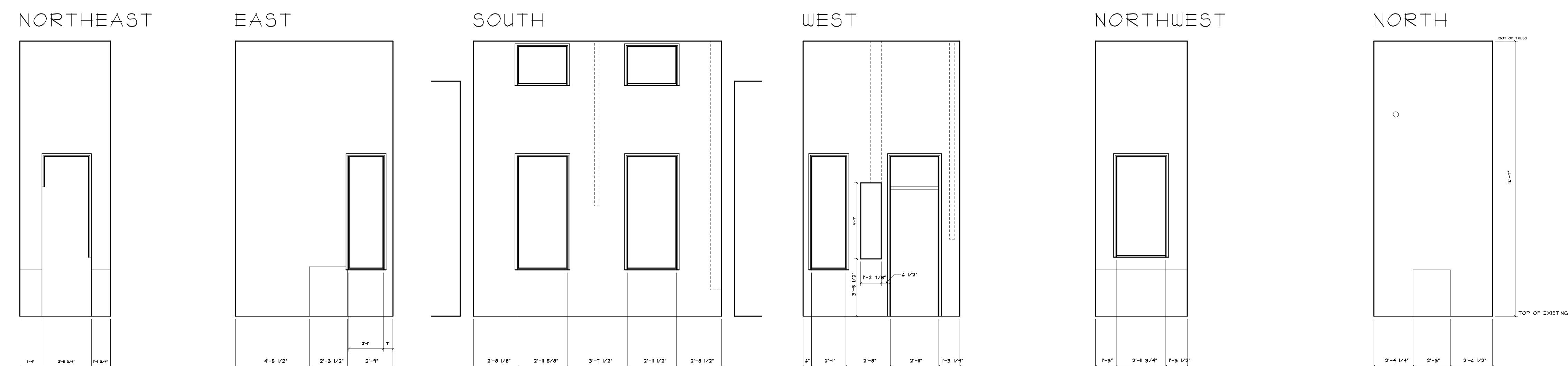
PHASE II RESTORATION
DOT UPC # 103592
STATE PROJ# EN05-128-325, C502

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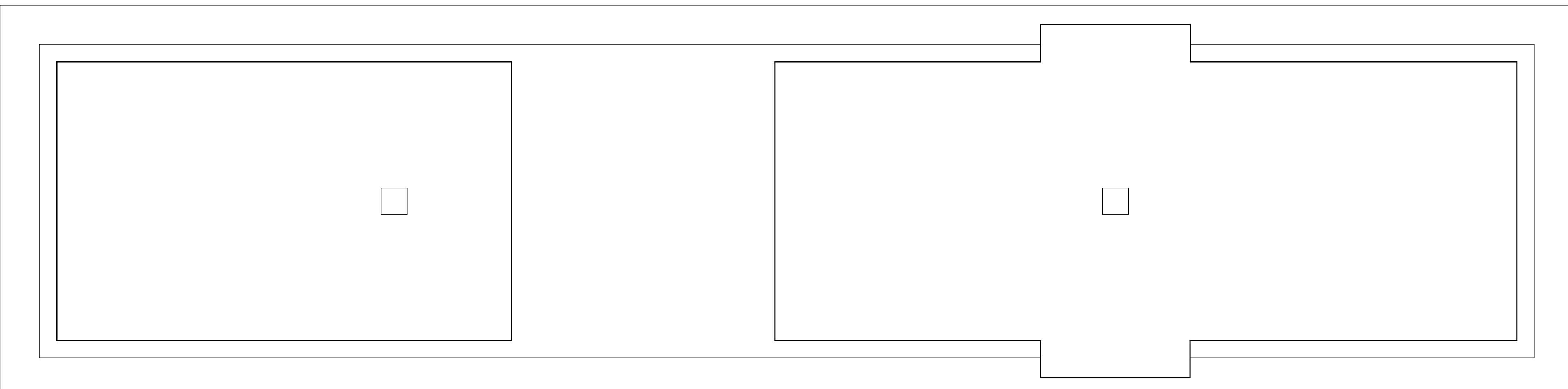
SHEET TITLE EXISTING INTERIOR ELEVATIONS



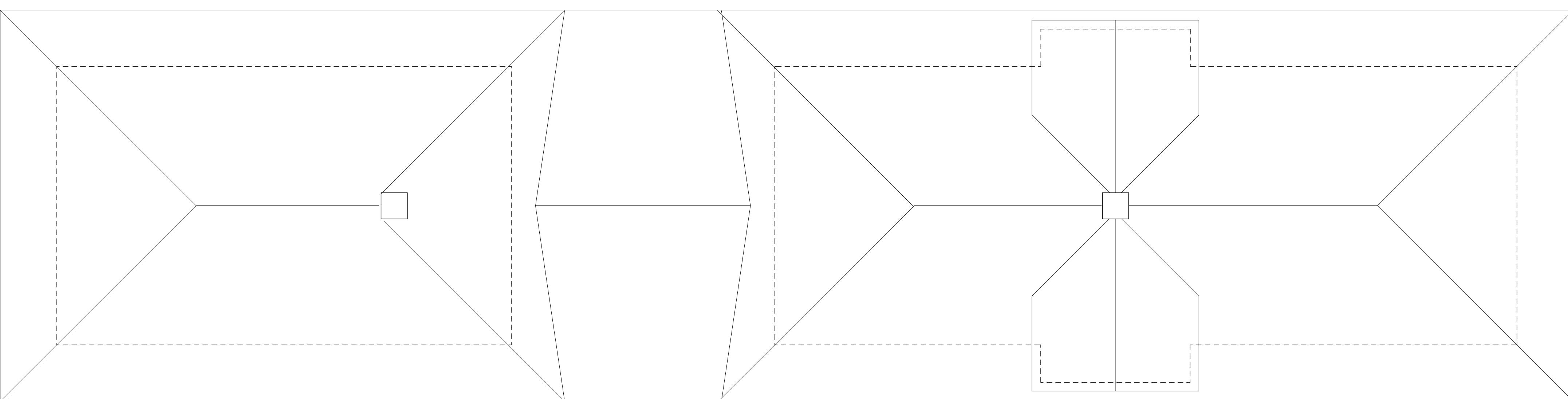
TICKET OFFICE

EXISTING CONDITIONS INTERIOR ELEVATION - PASSENGER STATION

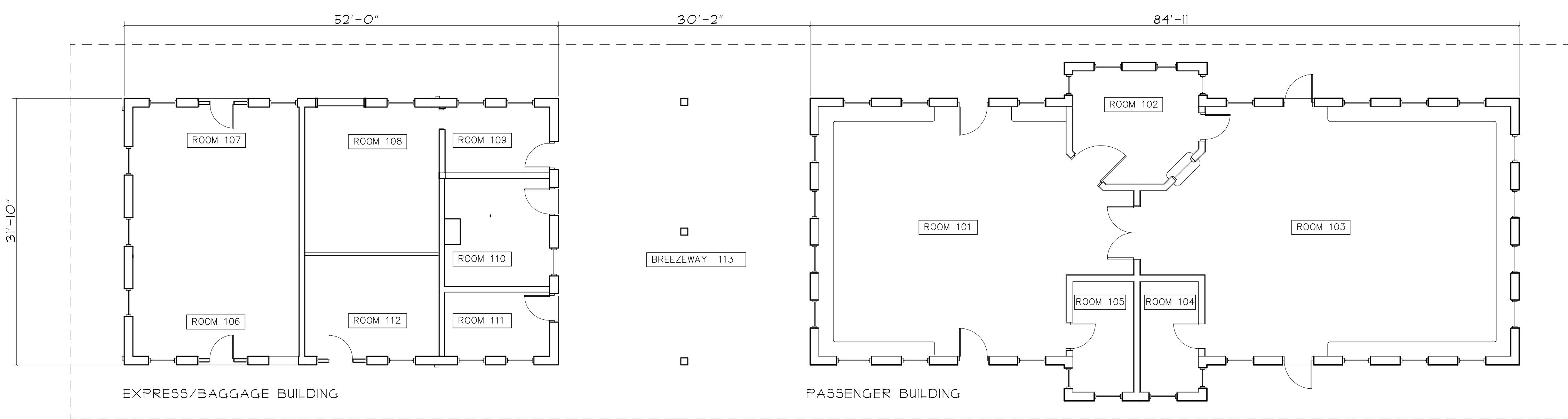
$$1/4'' = 1'-0''$$



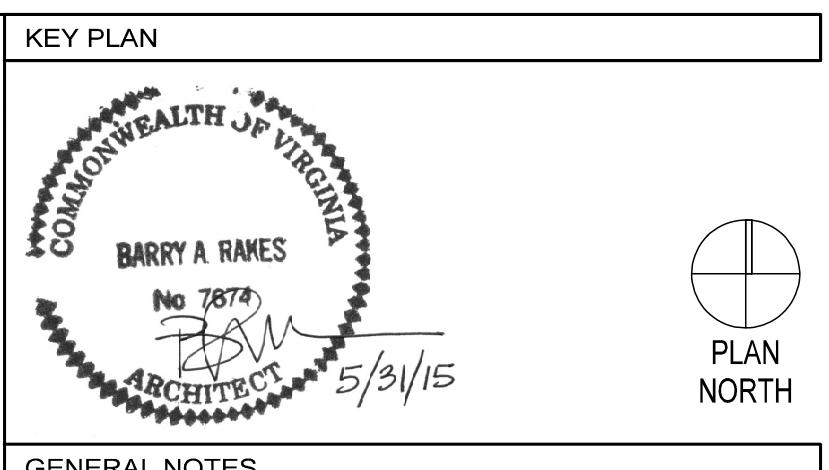
EXISTING CEILING PLAN

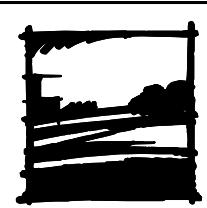


ROOF PLAN

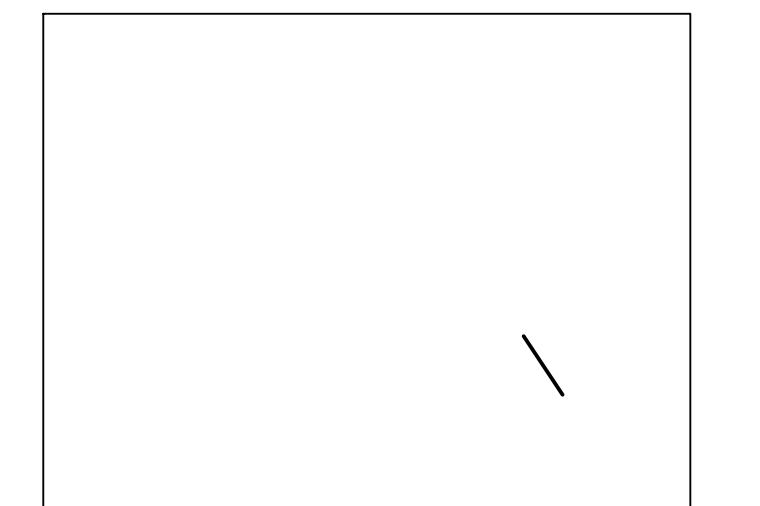


EXISTING FLOOR PLAN - PASSENGER BUILDING NO SCALE



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VIRGINIAN RAILWAY PASSENGER STATION PHASE II - RESTORATION

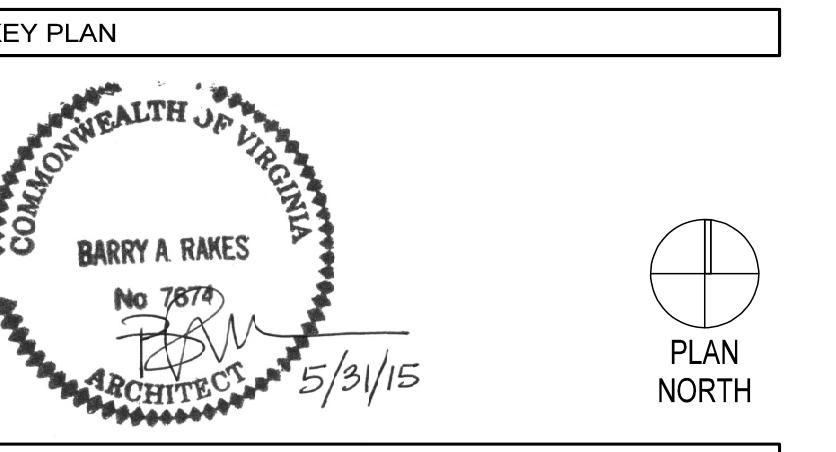
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SHEET TITLE EXISTING CONDITIONS

A 2.1



PLAN NORTH

GENERAL NOTES

- A. VERIFY ALL DIMENSIONS IN THE FIELD
- B. DO NOT CUT, REMOVE OR DAMAGE ANY EXISTING WOODWORK IN THE BUILDING WITHOUT PRIOR WRITTEN AUTHORIZATION BY THE ARCHITECT.
- C. DO NOT DAMAGE EXISTING TERRAZZO FLOOR IN THE PASSENGER BUILDING WITH EQUIPMENT, PAINT OR CHEMICALS. PROTECT THE FLOOR WITH PLYWOOD WHEN TRANSPORTING EQUIPMENT.

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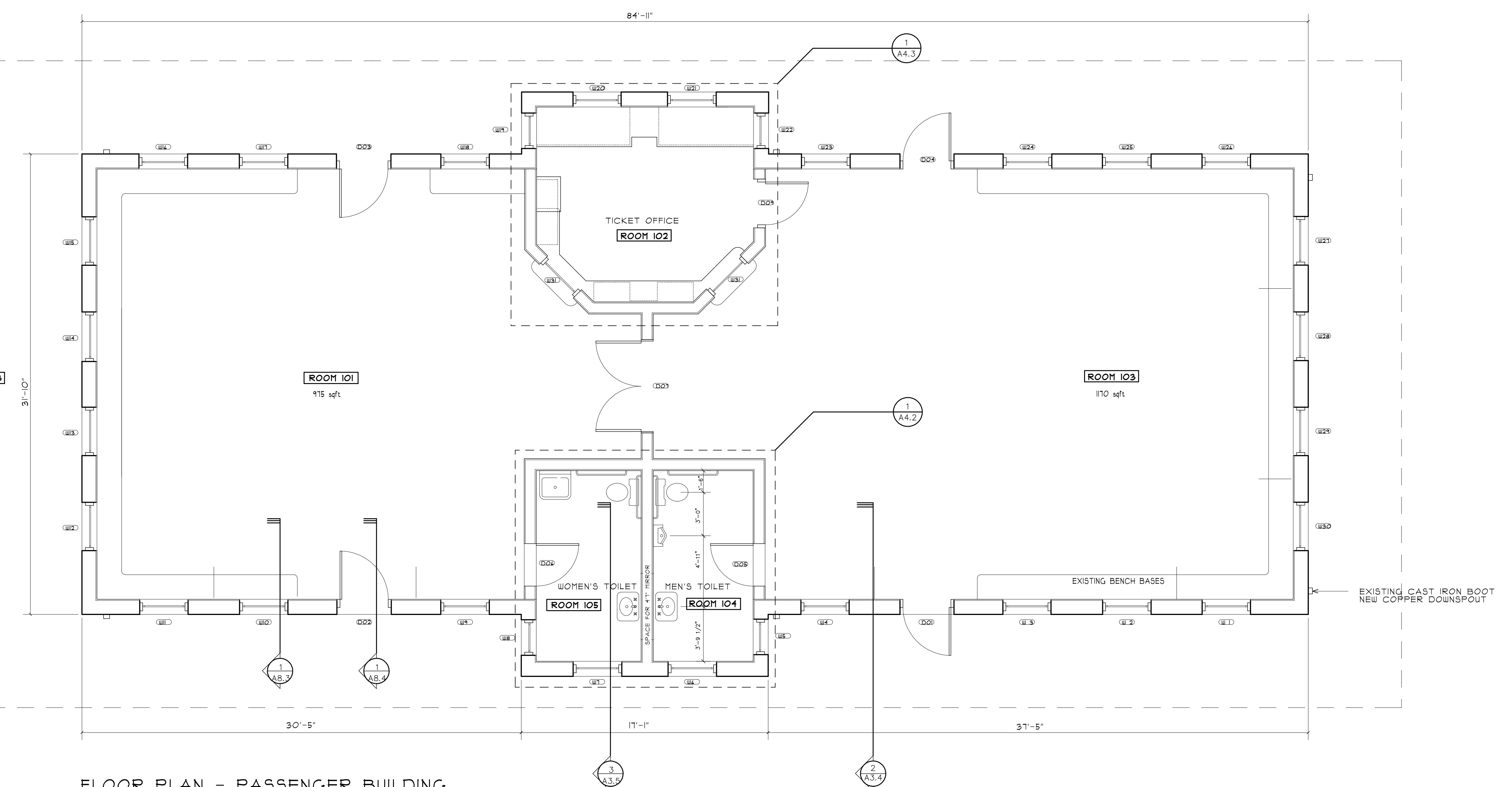
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PASSENGER STATION
PHASE II - RESTORATION**
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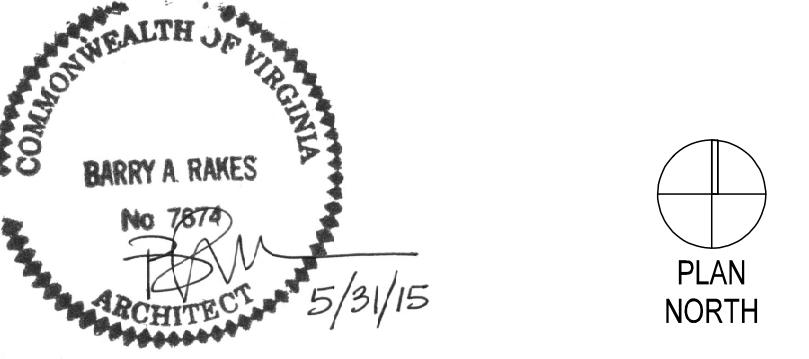
SHEET TITLE: FLOOR PLAN

A2.2



FLOOR PLAN - PASSENGER BUILDING

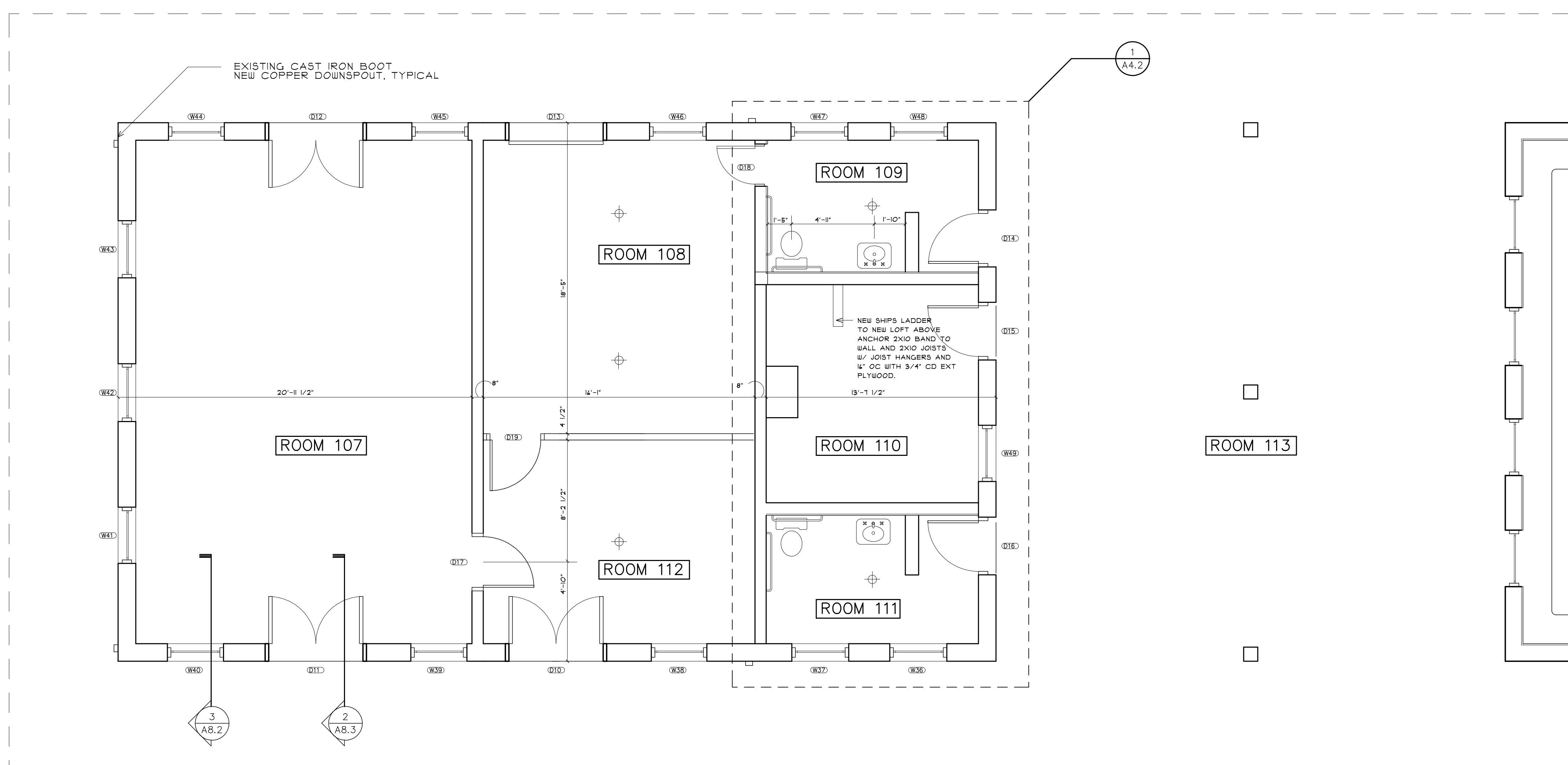
SCALE: 1/4" = 1'-0"



A circular compass rose icon divided into four quadrants by a vertical and horizontal line. The word "PLAN" is written vertically above the horizontal line, and "NORTH" is written horizontally below the vertical line.

GENERAL NOTES

- A. VERIFY ALL DIMENSIONS IN THE FIELD
 - B. DO NOT CUT, REMOVE OR DAMAGE ANY EXISTING WOODWORK IN THE BUILDING WITHOUT PRIOR WRITTEN AUTHORIZATION BY THE ARCHITECT.
 - C. DO NOT DAMAGE EXISTING TERAZZO FLOOR IN THE PASSENGER BUILDING WITH EQUIPMENT, PAINT OR CHEMICALS. PROTECT THE FLOOR WITH PLYWOOD WHEN TRANSPORTING EQUIPMENT.



FLOOR PLAN - BAGGAGE AND EXPRESS BUILDING

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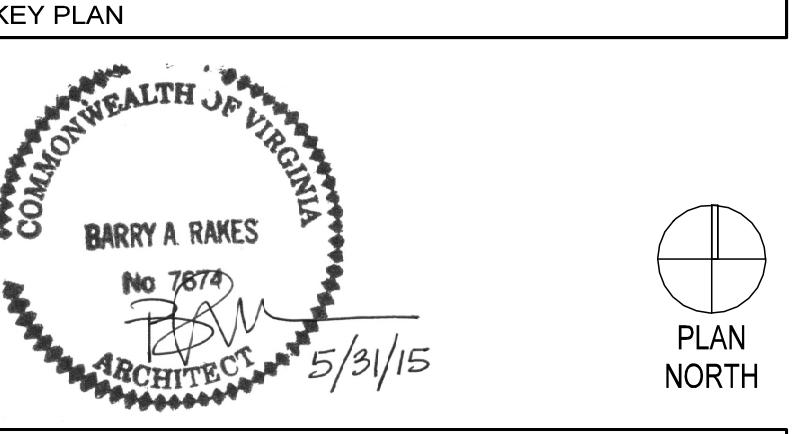
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SHEET TITLE **FLOOR PLAN**

1 2 3



GENERAL NOTES



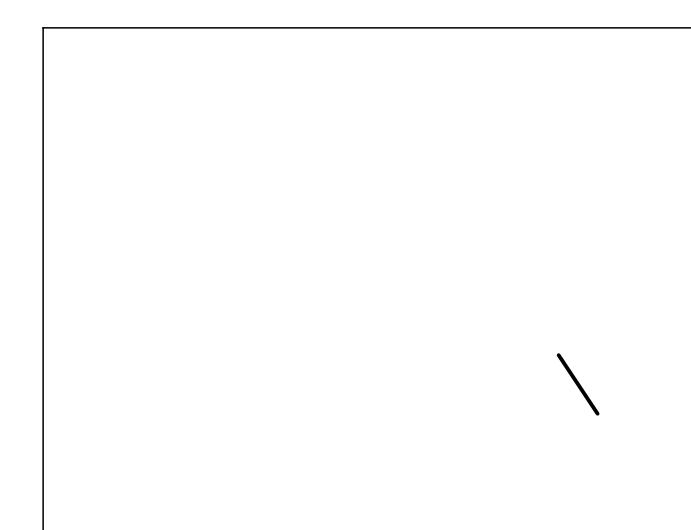
SOUTH ELEVATION - PASSENGER STATION (TRACKSIDE)

1/4" = 1'-C



NORTH ELEVATION - PASSENGER STATION

$$\sqrt{4''} = 1' - C$$



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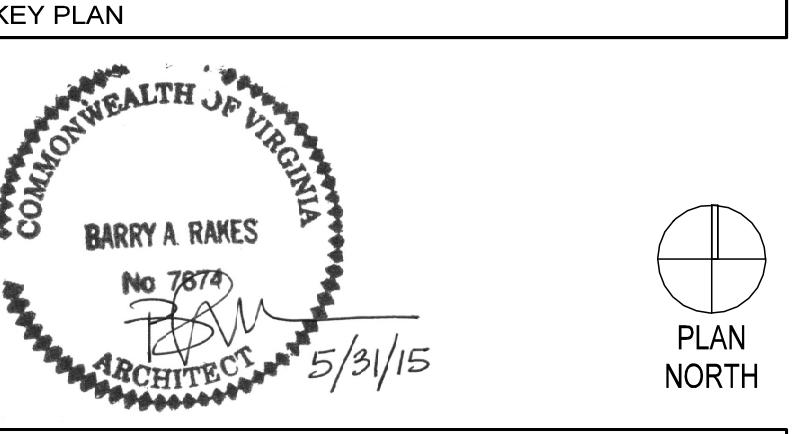
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SHEET TITLE EXTERIOR ELEVATIONS

A diagram consisting of three parts: a triangle with a horizontal base line below it, the number 3 written in cursive script, and a single vertical line segment.



GENERAL NOTES



SOUTH ELEVATION - BAGGAGE AND EXPRESS

$$1/4'' = 1'-0''$$



NORTH ELEVATION - BAGGAGE AND EXPRESS

$$1/4'' = 1'-O''$$

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Figure 1. The relationship between the number of species and the area of forest cover in each state.

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VIRGINIAN RAILWAY PASSENGER STATION PHASE II RESTORATION

PHASE II - RESTORATION
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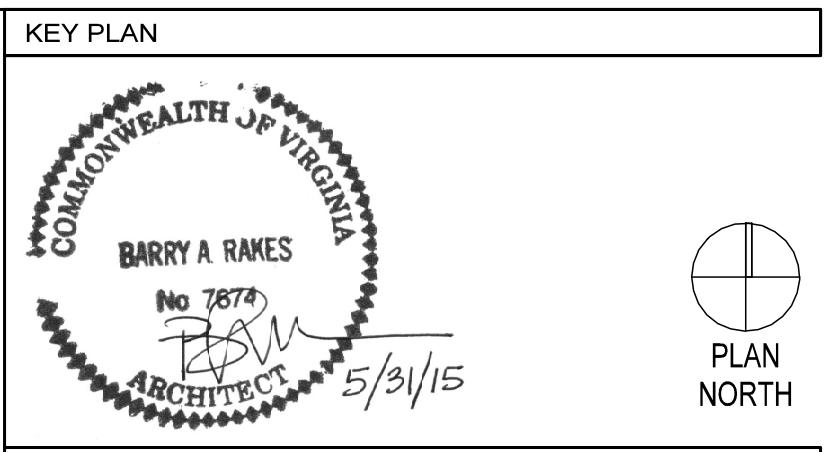
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SHEET TITLE EXTERIOR ELEVATIONS

1 3 2



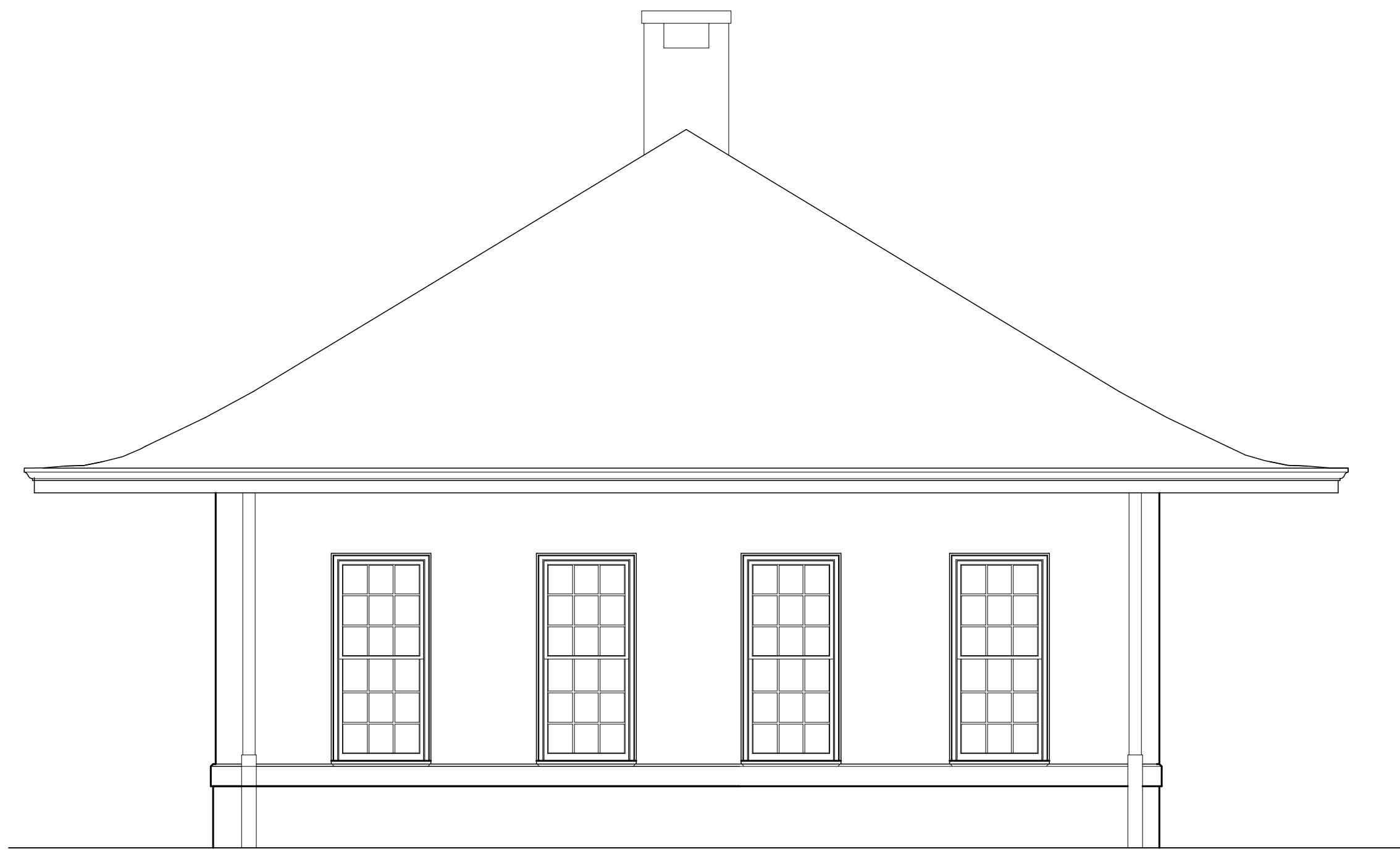
PLAN NORTH

GENERAL NOTES



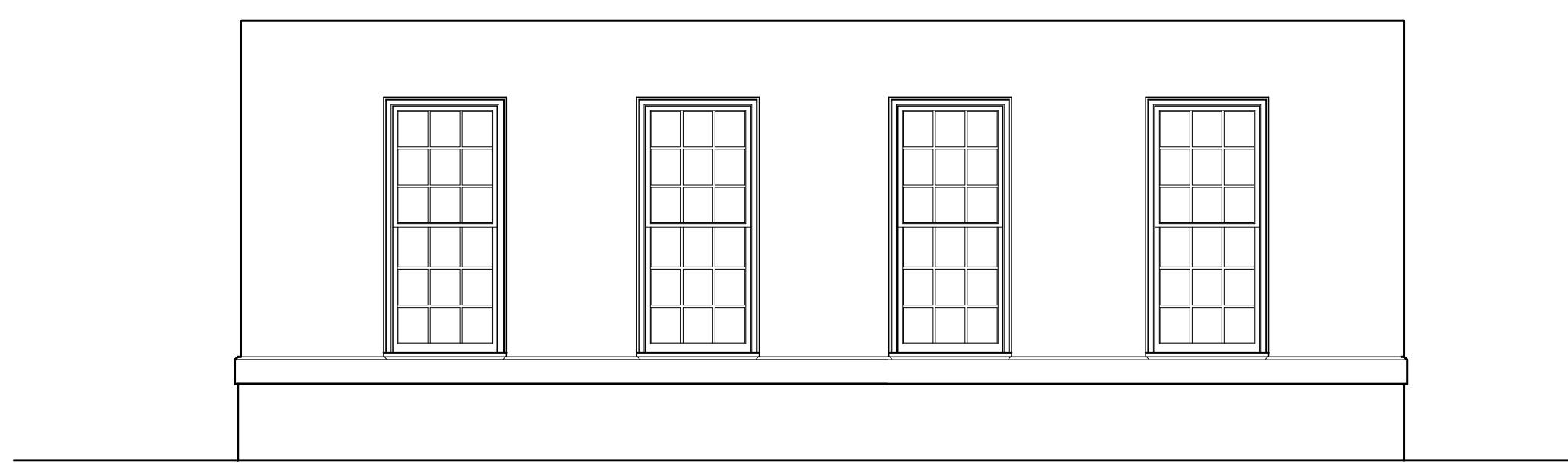
WEST ELEVATION - BAGGAGE AND EXPRESS

$1/4"$ = 1'-0"



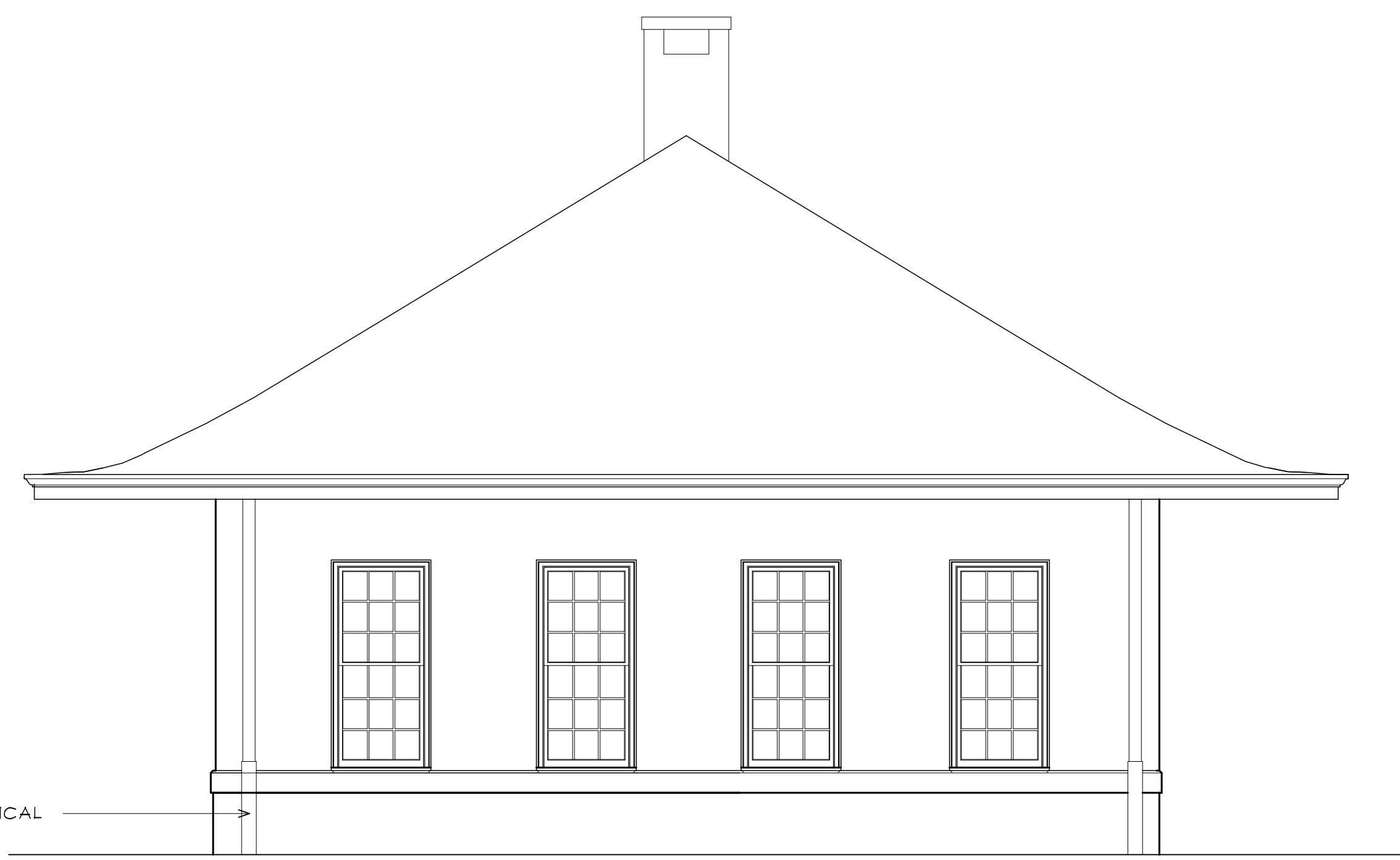
EAST ELEVATION - BAGGAGE AND EXPRESS

$1/4"$ = 1'-0"



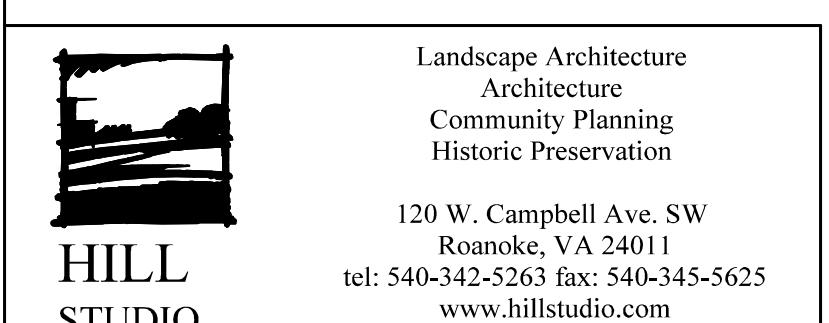
EAST ELEVATION - PASSENGER STATION

$1/4"$ = 1'-0"

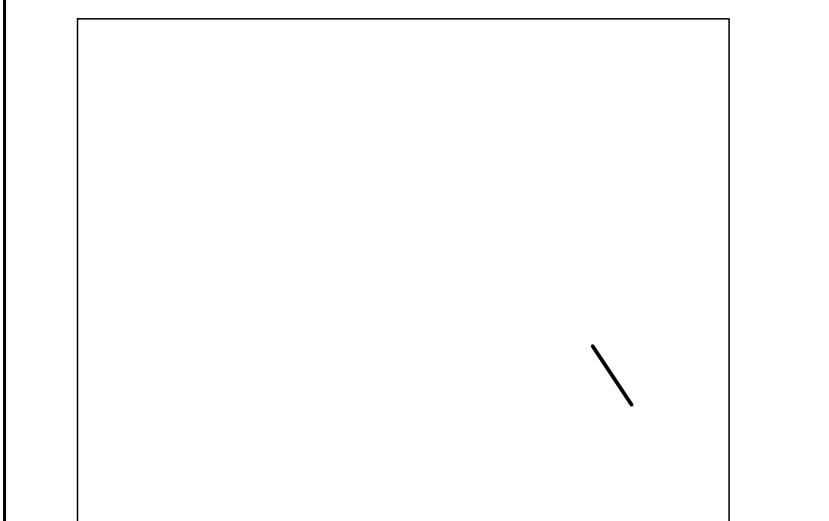


WEST ELEVATION - PASSENGER STATION

$1/4"$ = 1'-0"



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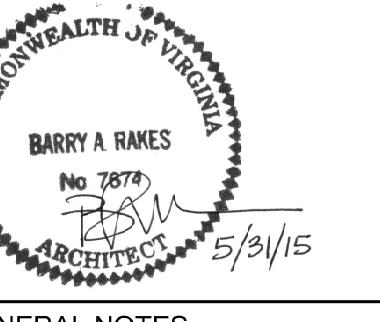
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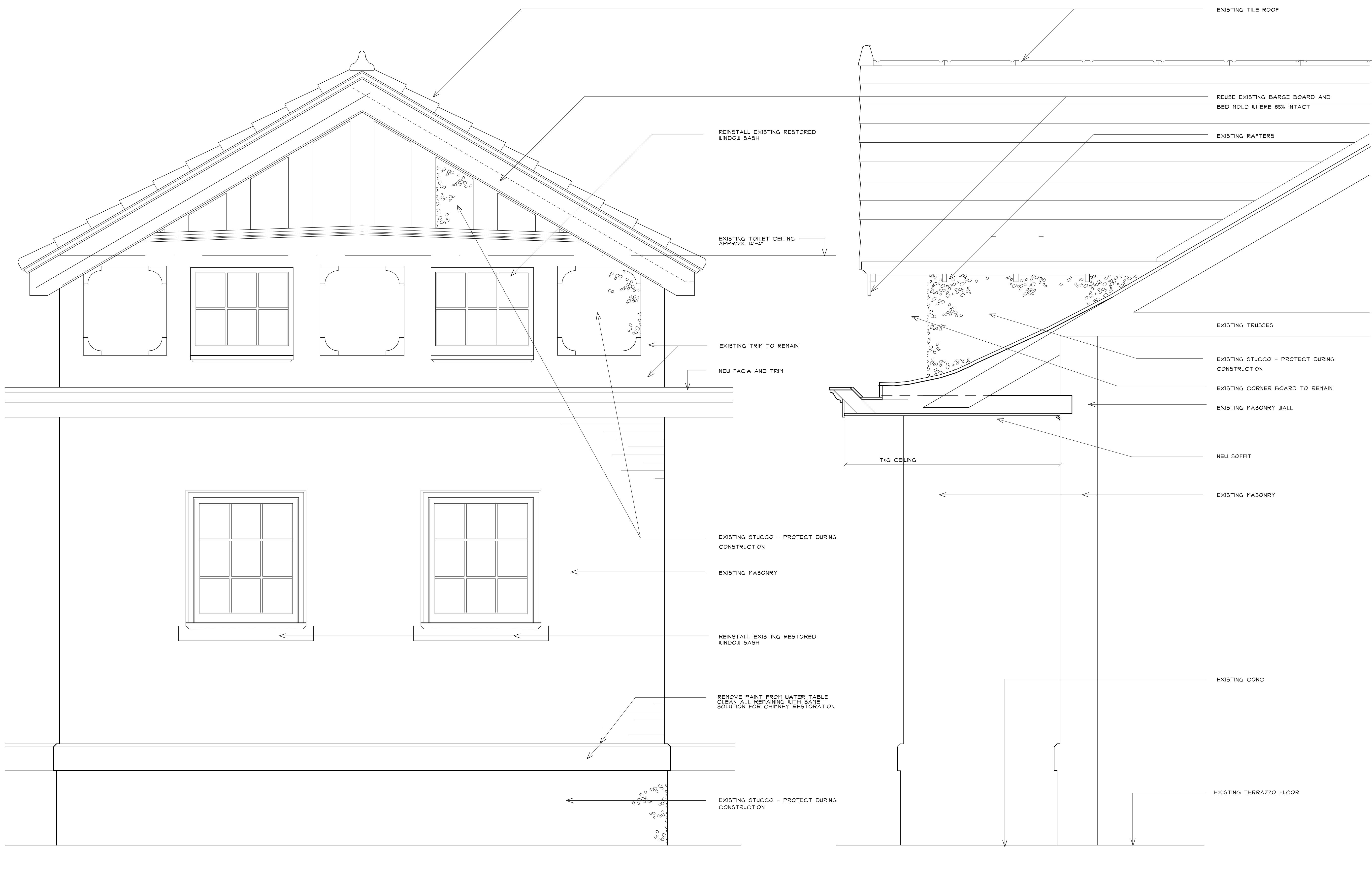
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PASSENGER STATION
PHASE II - RESTORATION
VDOT UPC # 103592
STATE PROJ# EN05-128-325, C502
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SHEET TITLE EXTERIOR ELEVATIONS

A 3.3

KEY PLAN		 BARRY A RAKES No. 7875 ARCHITECT 5/3/15
GENERAL NOTES		
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SHEET TITLE DORMER DETAILS		



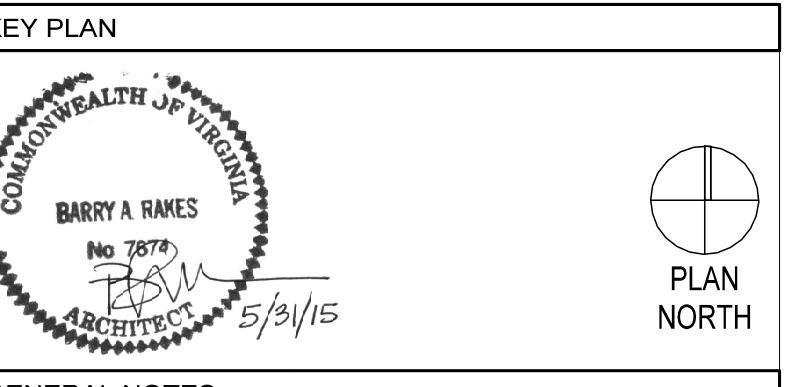
DORMER ELEVATION

3/4" = 1'-0"

BUILDING SECTION/DORMER ELEVATION

3/4" = 1'-0"

A 3.4



PLAN NORTH

GENERAL NOTES

CHIMNEY SURFACE CLEANING

NO CHIMNEY WORK SHALL COMMENCE UNTIL TILE ROOF IS PROTECTED FROM RUNOFF AND PHYSICAL DAMAGE. ALL SCAFFOLDING AND LIFT WORK SHALL BE APPROVED BY THE ARCHITECT.

A. PERFORM MASONRY RESTORATION WORK IN THE FOLLOWING SEQUENCE:

1. REMOVE PLANT GROWTH
2. WHERE REQUIRED, REPAIR EXISTING MASONRY INCLUDING REPOINTING EXISTING MASONRY WITH NEW MASONRY MATERIALS.
3. RAKE OUT JOINTS THAT ARE TO BE REPOINTED
4. INSPECT FOR OPEN MORTAR JOINTS AND REPAIR BEFORE CLEANING TO PREVENT THE INGESTION OF WATER AND OTHER CLEANING MATERIALS INTO THE CHIMNEY
5. CLEAN MASONRY SURFACES.

B. MASONRY CLEANING

(MOCKUP REQUIRED IN AREA SELECTED BY ARCHITECT AND CONTRACTOR)

1. REMOVE PAINT AND CAULKING WITH ALKALINE PAINT REMOVER
2. REMOVE ASPHALT AND TAR WITH SOLVENT-TYPE PAINT REMOVER. APPLY ONLY TO ASPHALT AND TAR. RINSE WITH COLD WATER. ALLOW PAINT REMOVER TO REST ON SURFACE FOR 10 TO 30 MINUTES. RINSE OFF WITH COLD WATER USING LOW-PRESSURE SPRAY. REPEAT IF NEEDED
3. GENERAL MASONRY CLEANING - WET MASONRY WITH COLD WATER APPLIED BY LOW-PRESSURE SPRAY. SCRUB MASONRY WITH DETERGENT SOLUTION USING MEDIUM-SOFT BRUSHES UNTIL UNTIL SOIL IS THOROUGHLY DISLODGED AND CAN BE REMOVED BY RINSING. USE SMALL BRUSHES TO REMOVE SOIL FROM MORTAR JOINTS AND CREVICES. DIP BRUSH IN SOLUTION OFTEN TO ENSURE THAT ADEQUATE AMOUNT OF DETERGENT IS USED AND THAT MASONRY SURFACE REMAINS WET. RINSE WITH COLD WATER APPLIED BY LOW-PRESSURE SPRAY TO REMOVE DETERGENT. SOLUTION AND SOIL. REPEAT CLEANING WHERE REQUIRED TO PRODUCE CLEANING EFFECT ESTABLISHED BY MOCKUP.

MASONRY CLEANING JOB MIXED SOLUTION:

PREPARE 2 CUPS OF TSP, 1/2 CUP OF LAUNDRY DETERGENT, AND 20 QUARTS OF HOT WATER FOR EVERY 5 GALLONS OF SOLUTION REQUIRED.

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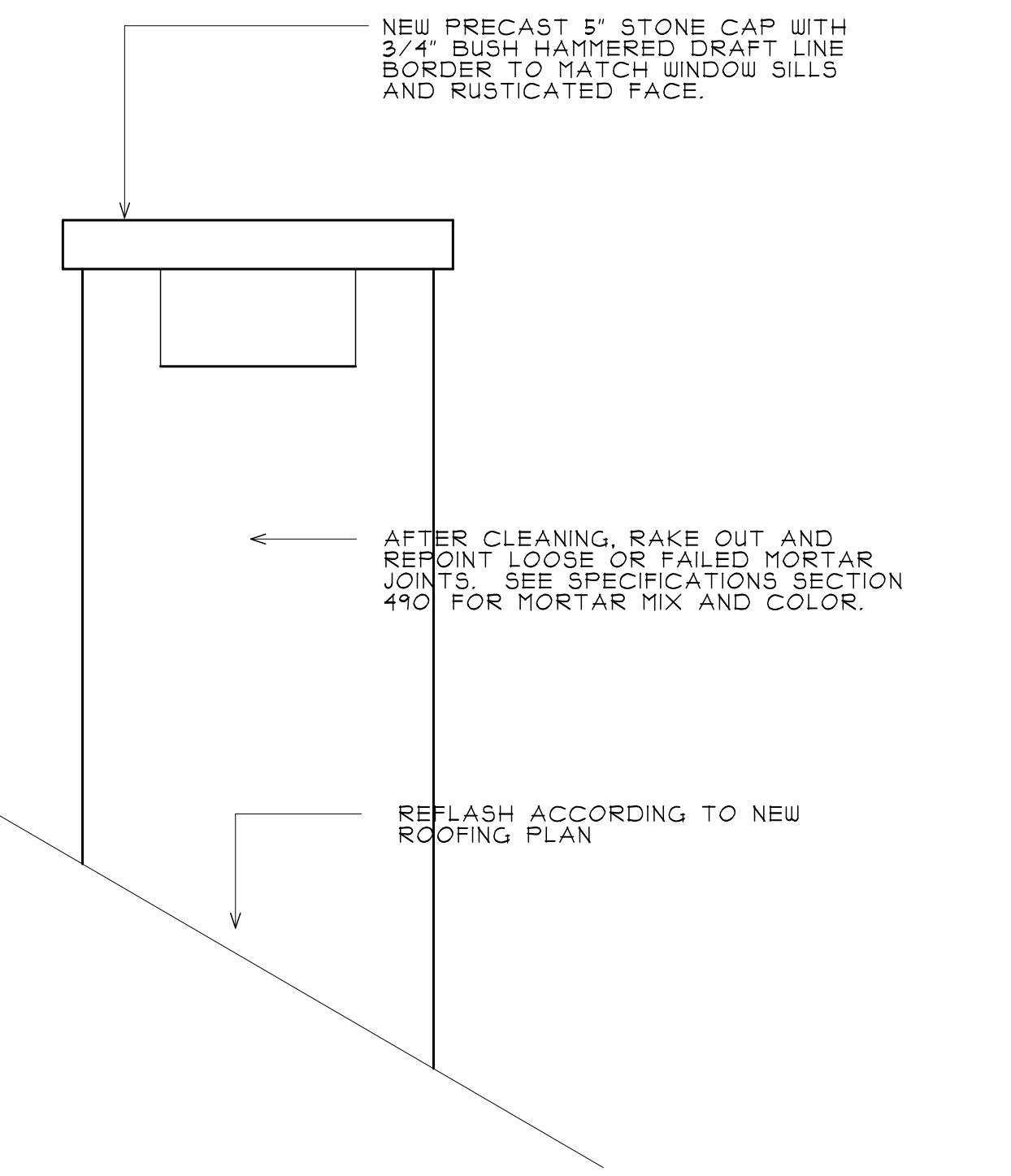
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A 3.5

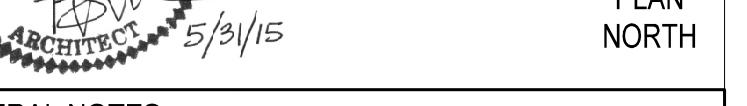
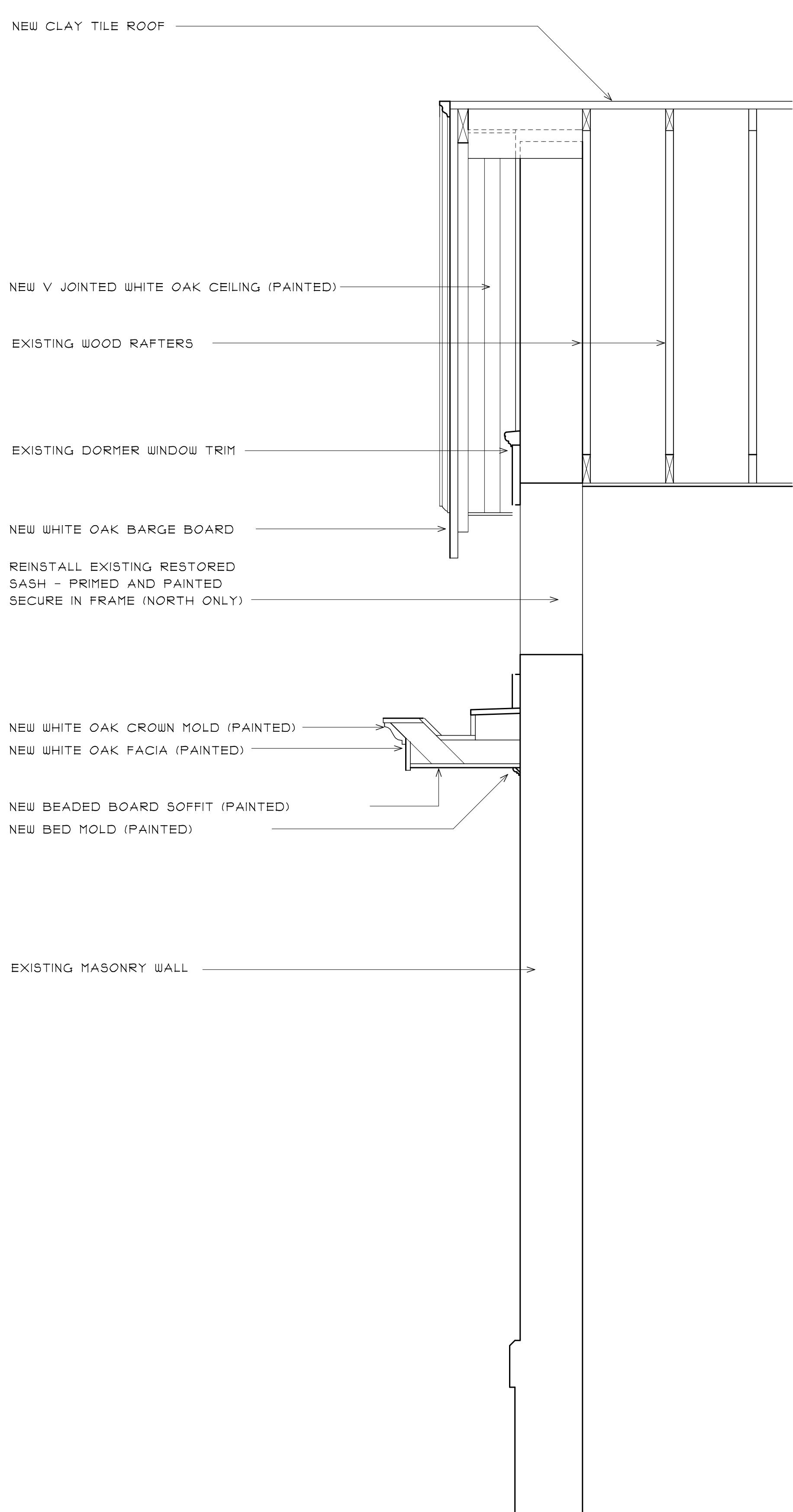
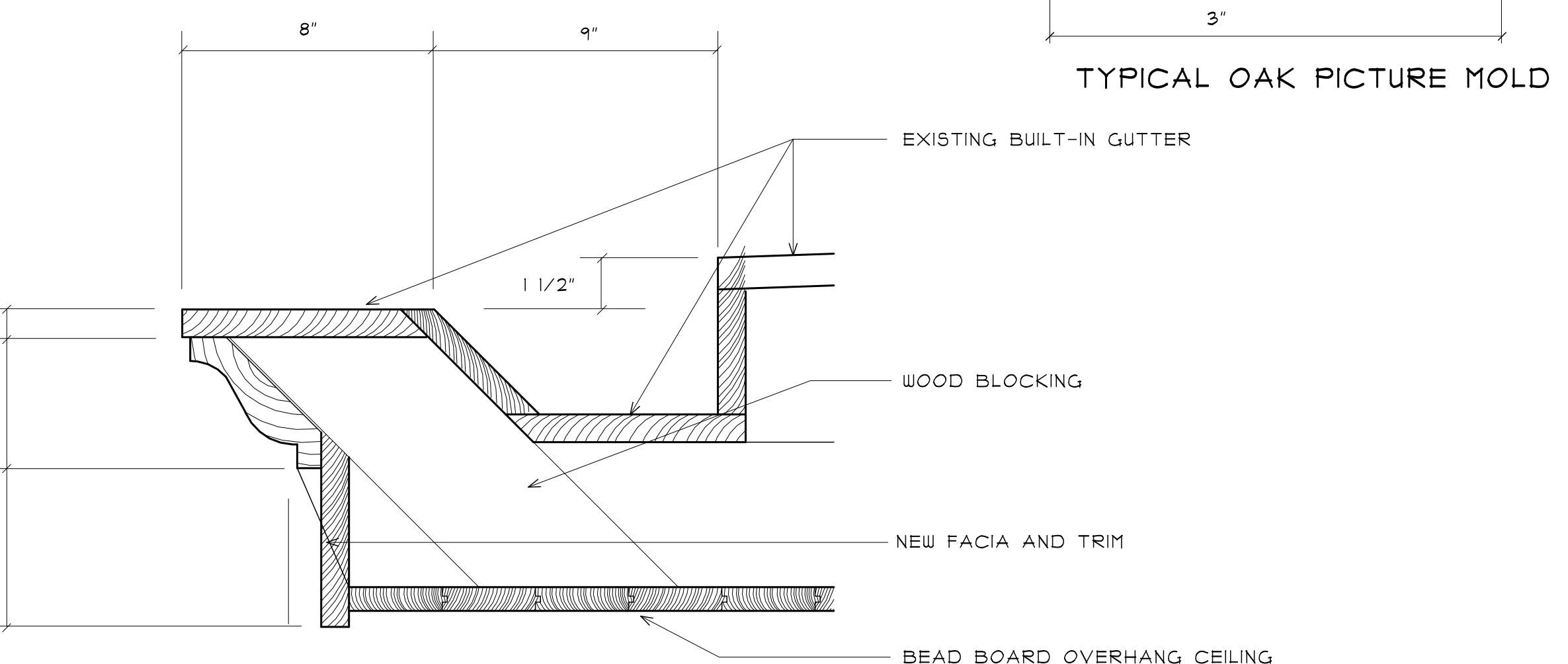


CHIMNEYS

NO SCALE

MASONRY REPOINTING

1. ALL JOINTS ON BOTH CHIMNEYS ARE TO BE EXAMINED
2. JOINTS WHERE MORTAR IS MISSING OR WHERE THEY CONTAIN HOLES TO BE REPOINTED
3. CRACKED JOINTS WHERE CRACKS CAN BE PENETRATED AT LEAST 1/4" BY A KNIFE BLADE .02" THICK TO BE REPOINTED
4. CRACKED JOINTS WHERE CRACKS ARE 1/8" OR MORE IN WIDTH AND OF ANY DEPTH TO BE REPOINTED
5. JOINTS WHERE THEY SOUND HOLLOW WHEN TAPPED BY METAL OBJECT TO BE REPOINTED
6. JOINTS WHERE THEY ARE WORN BACK 1/4" OR MORE FROM SURFACE TO BE REPOINTED
7. JOINTS WHERE THEY ARE DETERIORATED TO POINT THAT MORTAR CAN BE EASILY REMOVED BY HAND TO BE REPOINTED
8. HISTORIC MORTAR TO BE TESTED TO DETERMINE PROPORTIONS AND PORTLAND CONTENT IF PRESENT. USE MIX PROVIDED BY RIVERTON OR SITE MIXED BY MASON, APPROVED BY ARCHITECT
9. REPLACE ALL WHITE GLASS BRICK ON BAGGAGE AND EXPRESS BUILDING WITH NEW MATCHING BRICK.



PLAN NORTH

GENERAL NOTES

CHIMNEY SURFACE CLEANING

NO CHIMNEY WORK SHALL COMMENCE UNTIL TILE ROOF IS PROTECTED FROM RUNOFF AND PHYSICAL DAMAGE. ALL SCAFFOLDING AND LIFT WORK SHALL BE APPROVED BY THE ARCHITECT.

A. PERFORM MASONRY RESTORATION WORK IN THE FOLLOWING SEQUENCE:

1. REMOVE PLANT GROWTH
2. WHERE REQUIRED, REPAIR EXISTING MASONRY INCLUDING REPOINTING EXISTING MASONRY WITH NEW MASONRY MATERIALS.
3. RAKE OUT JOINTS THAT ARE TO BE REPOINTED
4. INSPECT FOR OPEN MORTAR JOINTS AND REPAIR BEFORE CLEANING TO PREVENT THE INGESTION OF WATER AND OTHER CLEANING MATERIALS INTO THE CHIMNEY
5. CLEAN MASONRY SURFACES.

B. MASONRY CLEANING

(MOCKUP REQUIRED IN AREA SELECTED BY ARCHITECT AND CONTRACTOR)

1. REMOVE PAINT AND CAULKING WITH ALKALINE PAINT REMOVER
2. REMOVE ASPHALT AND TAR WITH SOLVENT-TYPE PAINT REMOVER. APPLY ONLY TO ASPHALT AND TAR. RINSE WITH COLD WATER. ALLOW PAINT REMOVER TO REST ON SURFACE FOR 10 TO 30 MINUTES. RINSE OFF WITH COLD WATER USING LOW-PRESSURE SPRAY. REPEAT IF NEEDED
3. GENERAL MASONRY CLEANING - WET MASONRY WITH COLD WATER APPLIED BY LOW-PRESSURE SPRAY. SCRUB MASONRY WITH DETERGENT SOLUTION USING MEDIUM-SOFT BRUSHES UNTIL UNTIL SOIL IS THOROUGHLY DISLODGED AND CAN BE REMOVED BY RINSING. USE SMALL BRUSHES TO REMOVE SOIL FROM MORTAR JOINTS AND CREVICES. DIP BRUSH IN SOLUTION OFTEN TO ENSURE THAT ADEQUATE AMOUNT OF DETERGENT IS USED AND THAT MASONRY SURFACE REMAINS WET. RINSE WITH COLD WATER APPLIED BY LOW-PRESSURE SPRAY TO REMOVE DETERGENT. SOLUTION AND SOIL. REPEAT CLEANING WHERE REQUIRED TO PRODUCE CLEANING EFFECT ESTABLISHED BY MOCKUP.

MASONRY CLEANING JOB MIXED SOLUTION:

PREPARE 2 CUPS OF TSP, 1/2 CUP OF LAUNDRY DETERGENT, AND 20 QUARTS OF HOT WATER FOR EVERY 5 GALLONS OF SOLUTION REQUIRED.

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VIRGINIAN RAILWAY PASSENGER STATION PHASE II - RESTORATION

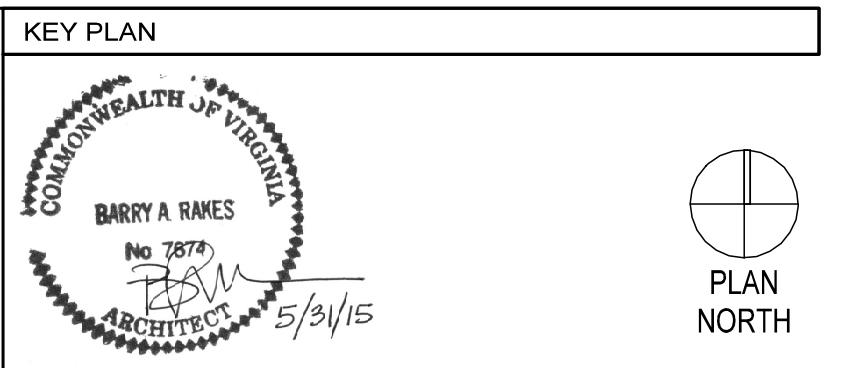
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SHEET TITLE EXTERIOR DETAILS

A 3.5



PLAN NORTH

GENERAL NOTES



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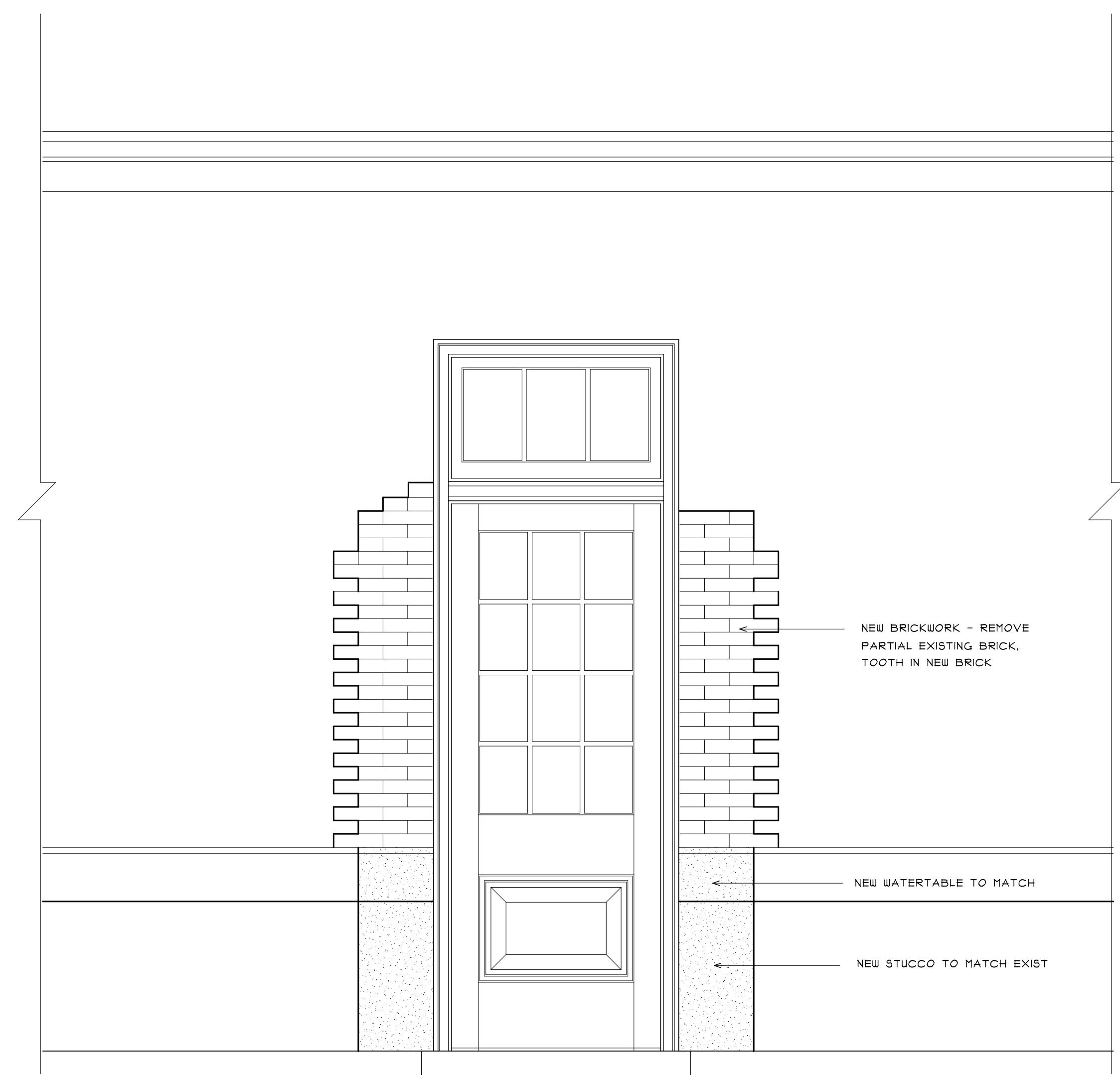
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PHASE II - RESTORATION
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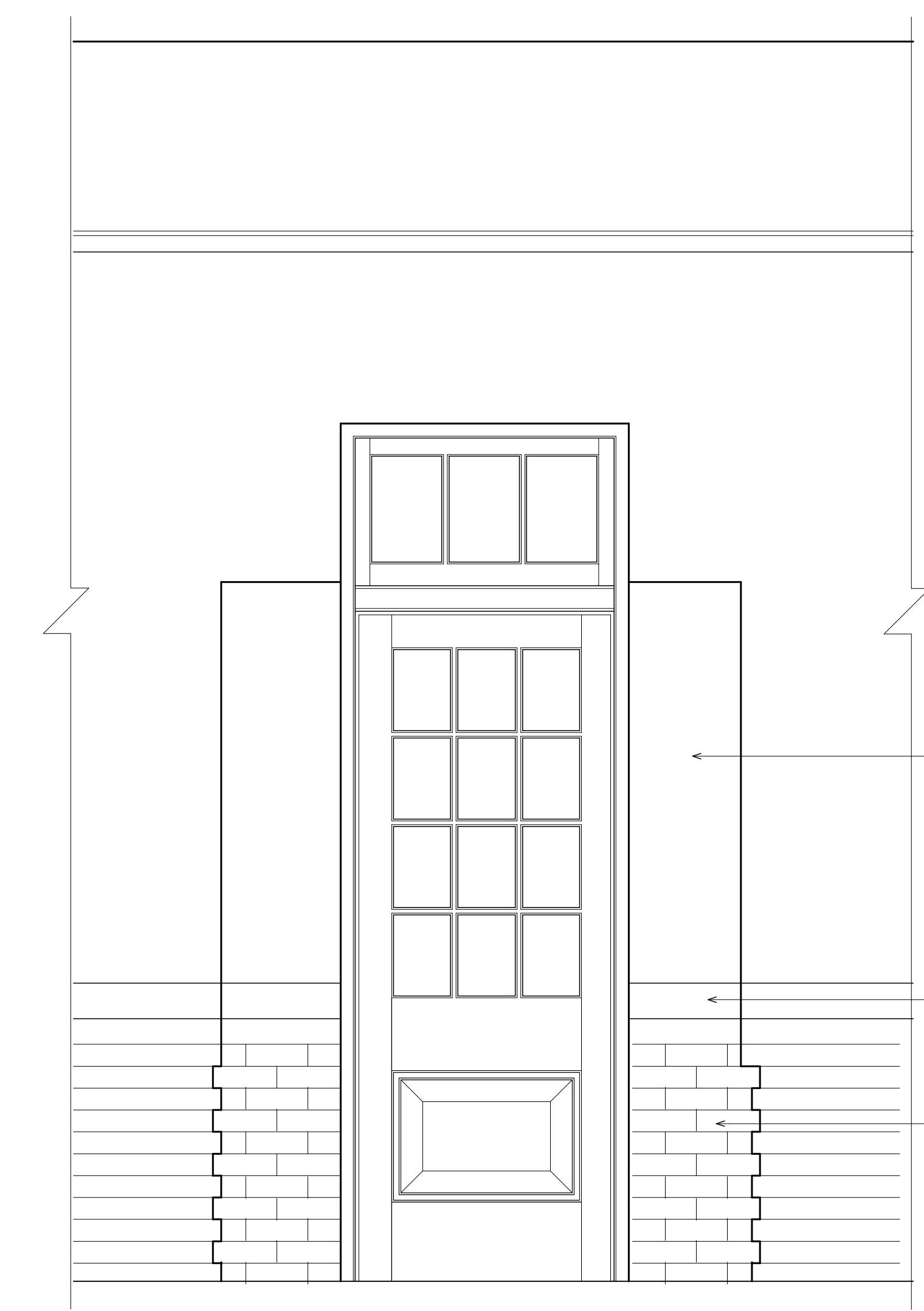
SHEET TITLE ENTRANCE DETAILS

A 3.6



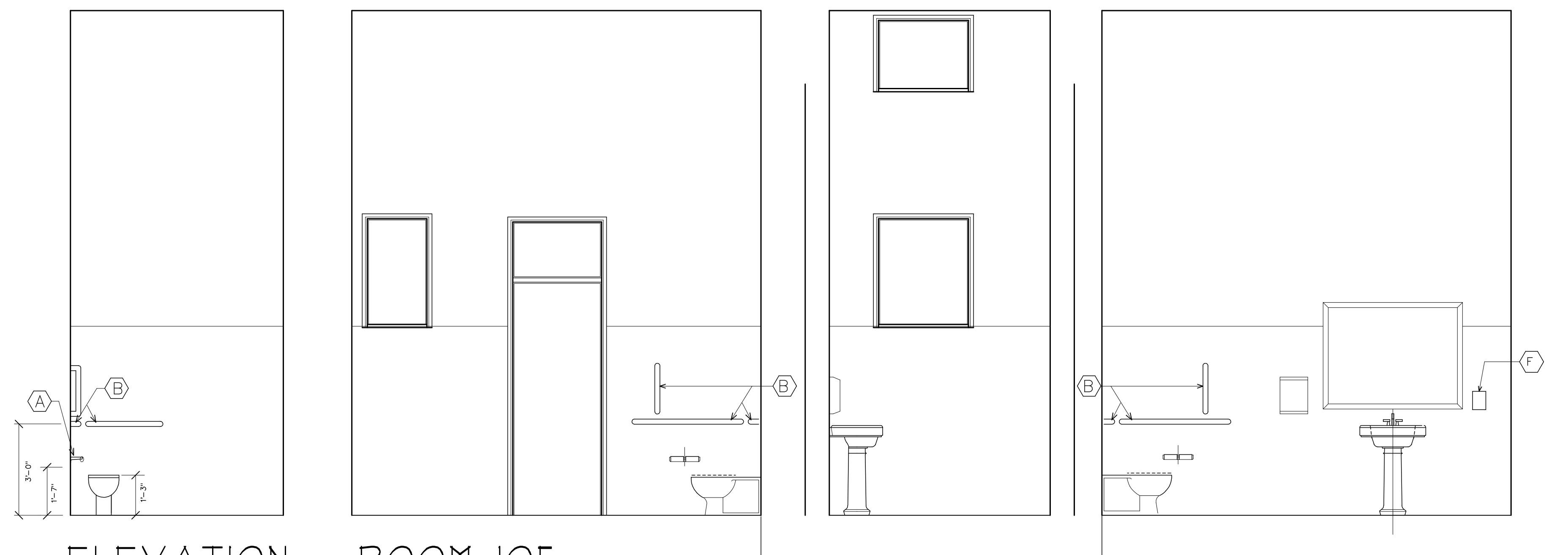
DOI ENTRANCE REPAIR - EXTERIOR

3/4" = 1'-0"



DOI ENTRANCE REPAIR - INTERIOR

3/4" = 1'-0"

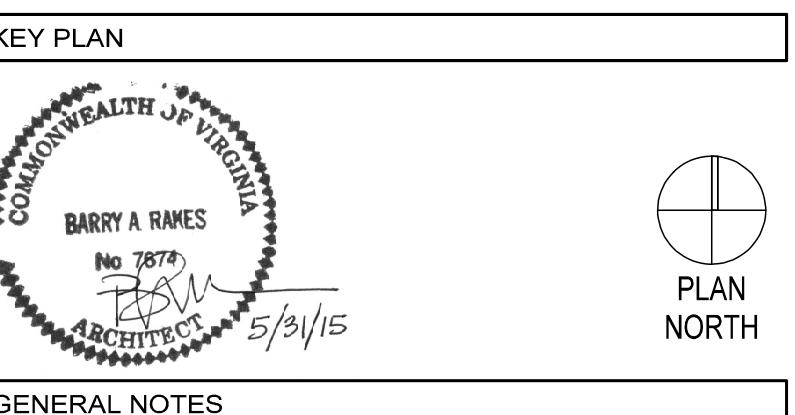


ELEVATION - ROOM 105

SCALE: 3/8" = 1'-0"

TOILET ACCESSORY SCHEDULE

ITEM	ITEM NAME	MTG. HT.	REMARKS
A	TOILET PAPER HOLDER	TOP @ 28" AFF	THEFT RESISTANT SPINDLE
B	ASSIST RAILS	Q @ 36" AFF	CONCEALED MOUNTING, PEENED SURFACE
C	PAPER TOWEL DISPENSER	OPNG. @ 40" AFF	
D	SANITARY NAPKIN DISPOSAL	TOP @ 28" AFF	NO SHELF REQUIRED
E	MIRROR	MATCH EXIST OPG	WOOD FRAME AS PER A3.4
F	SOAP DISPENSER	LEVER @ 40" AFF	SURFACE MOUNTED
G	MOP HOLDER	TOP @ 72" AFF	LOCATE ADJACENT TO MOP SINK
H			
I	COAT HOOK	Q @ 66" AFF	ONE PER TOILET BACK OF DOOR



GENERAL NOTES

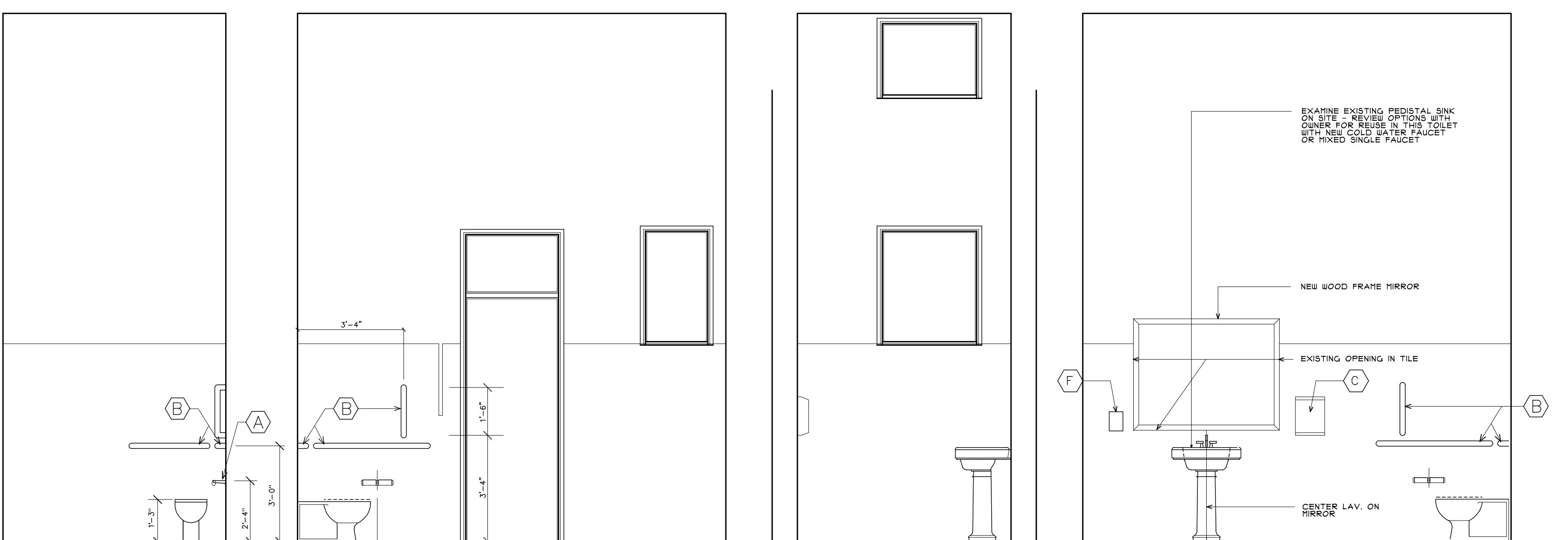


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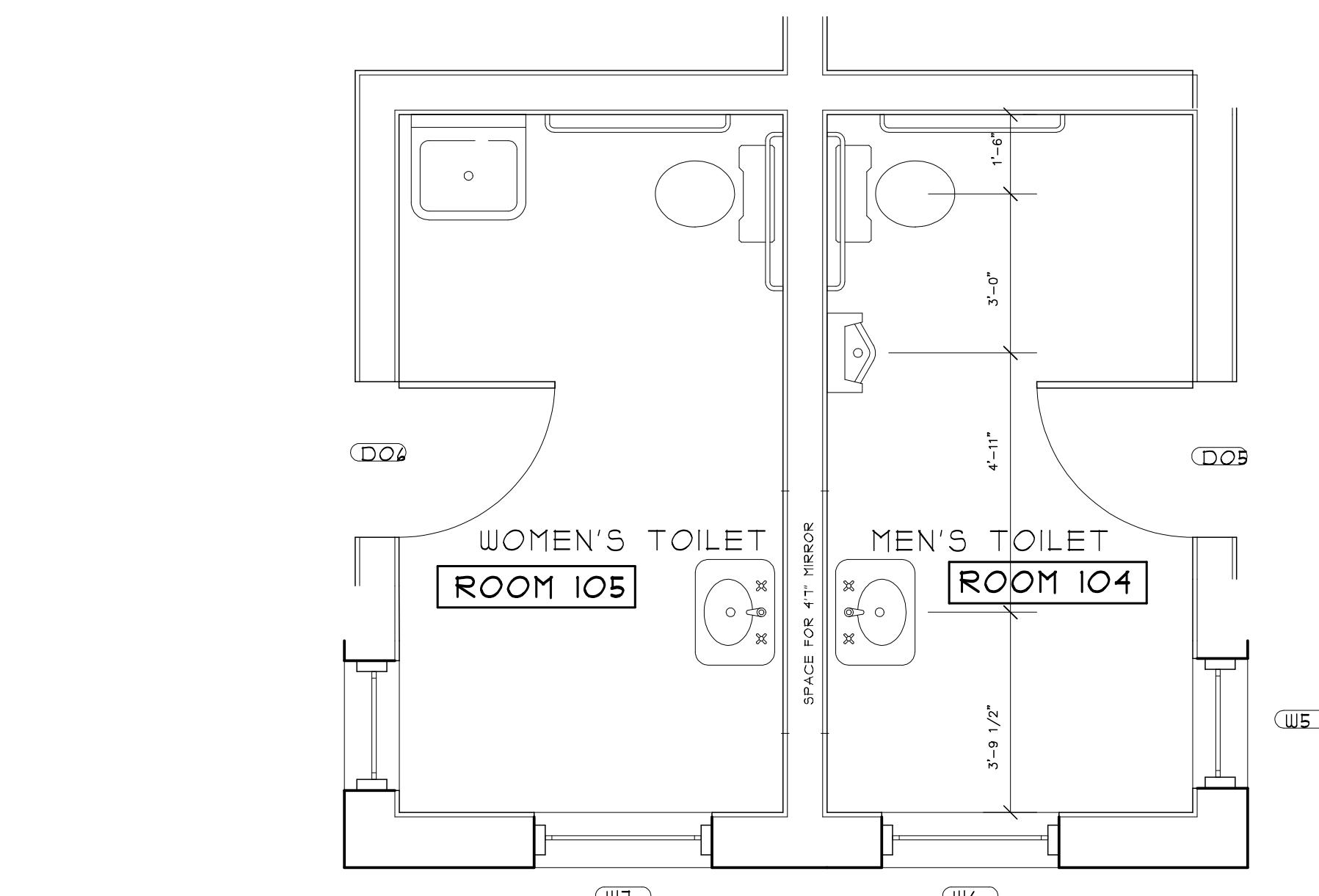
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ELEVATION - ROOM 104

SCALE: 3/8" = 1'-0"



FLOOR PLAN

SCALE: 3/8" = 1'-0"

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SHEET TITLE: ENLARGED TOILET PLANS

A 4 |

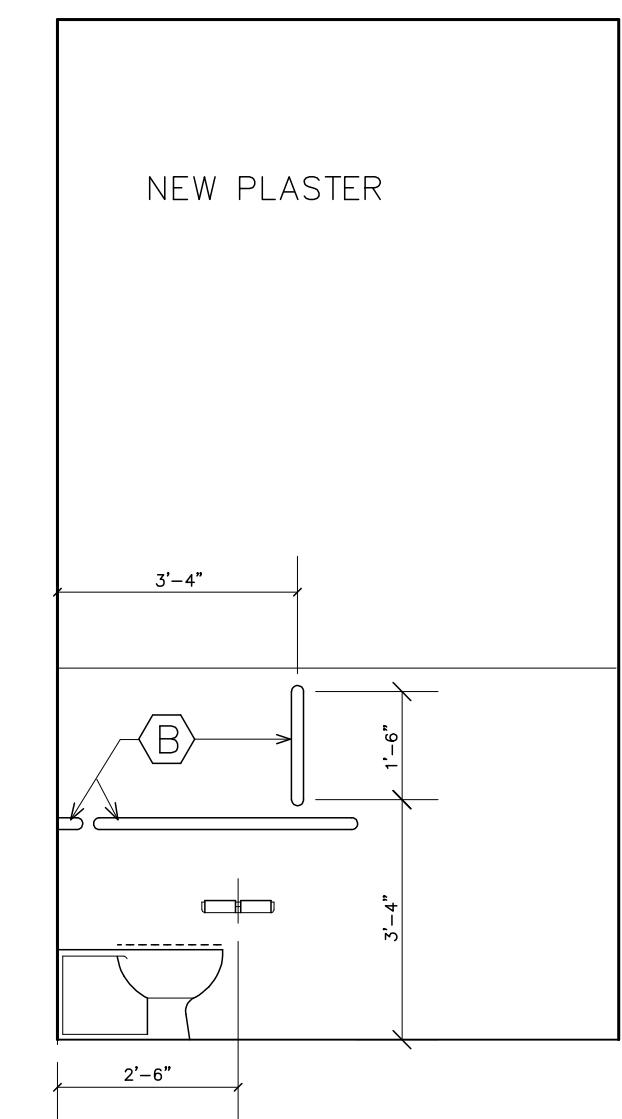
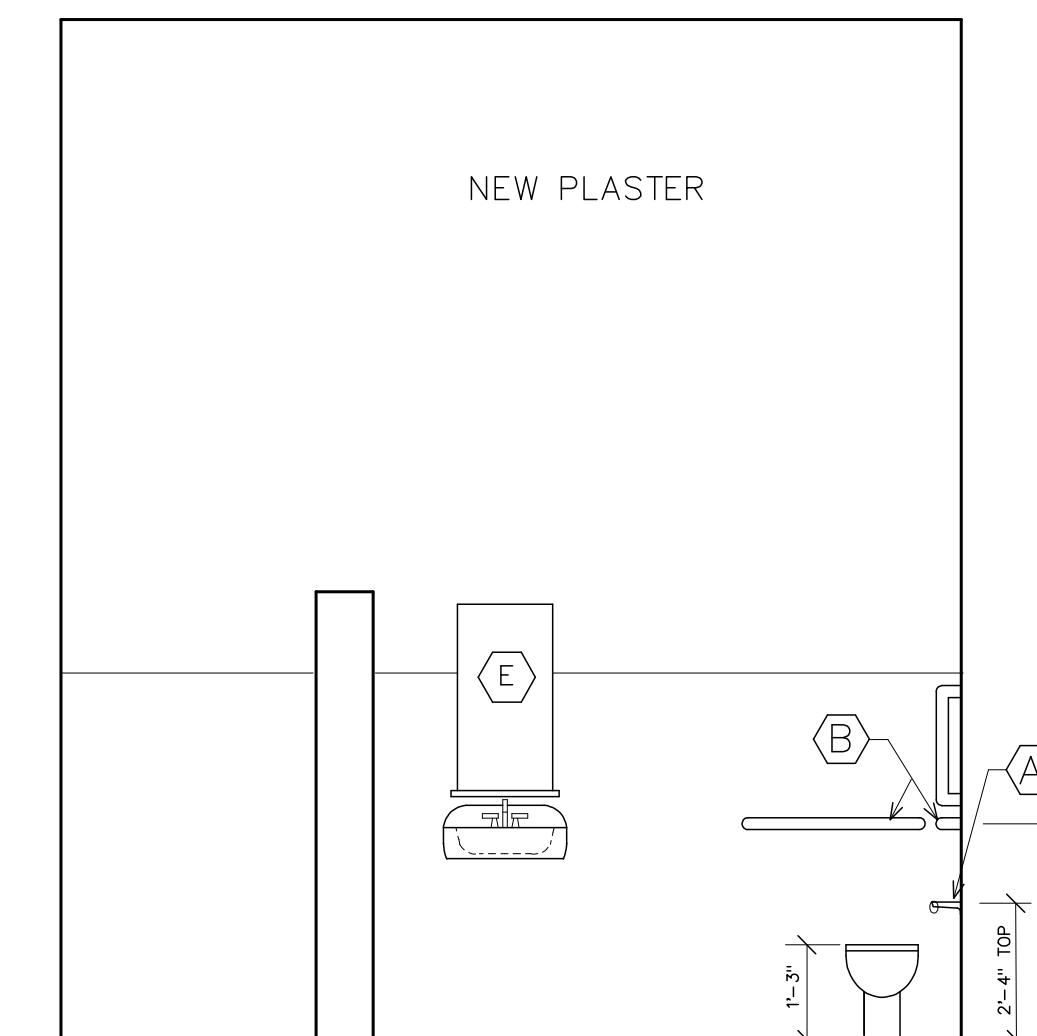
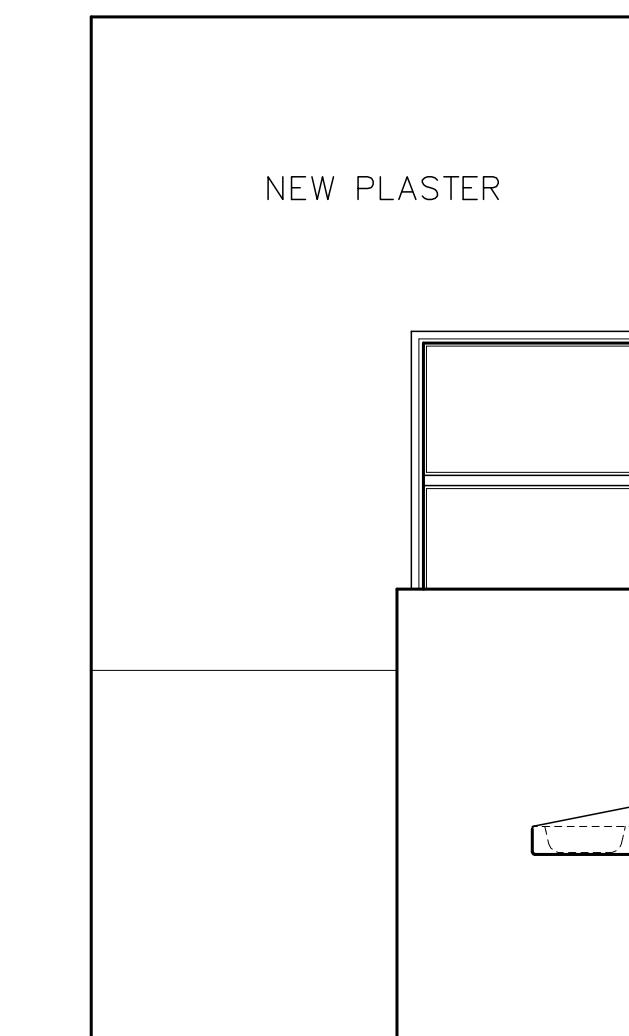
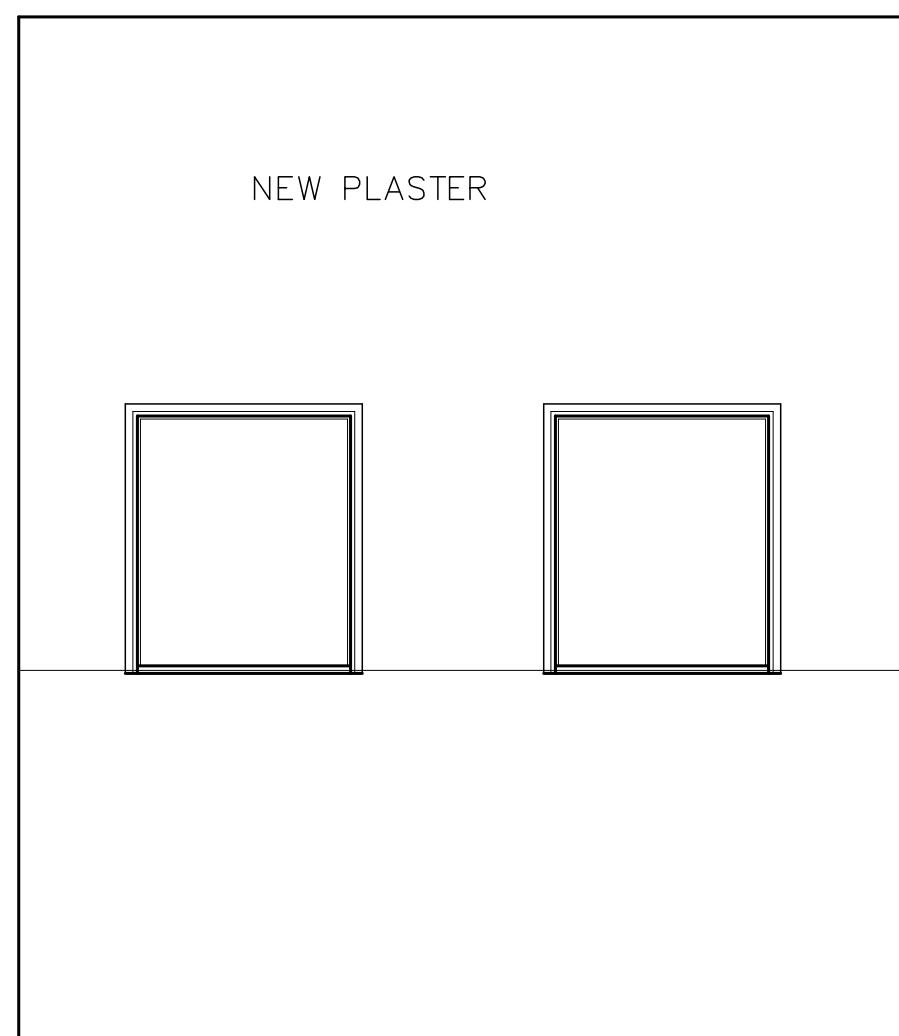
TOILET ACCESSORY SCHEDULE

ITEM	ITEM NAME	MTG. HT.	REMARKS
A	TOILET PAPER HOLDER	TOP @ 28" AFF	THEFT RESISTANT SPINDLE
B	ASSIST RAILS	C @ 36" AFF	CONCEALED MOUNTING, PEENED SURFACE
C	PAPER TOWEL DISPENSER	OPNG. @ 40" AFF	
D	SANITARY NAPKIN DISPOSAL	TOP @ 28" AFF	NO SHELF REQUIRED
E	FRAMELESS S.S. MIRROR	BOTTOM @ 40" AFF	BOTTOM @ 40" AFF
F	SOAP DISPENSER	LEVER @ 40" AFF	SURFACE MOUNTED,
G	MOP HOLDER	TOP @ 72" AFF	LOCATE ADJACENT TO MOP SINK
H			
I	COAT HOOK	C @ 66" AFF	ONE PER TOILET BACK OF DOOR

KEY PLAN

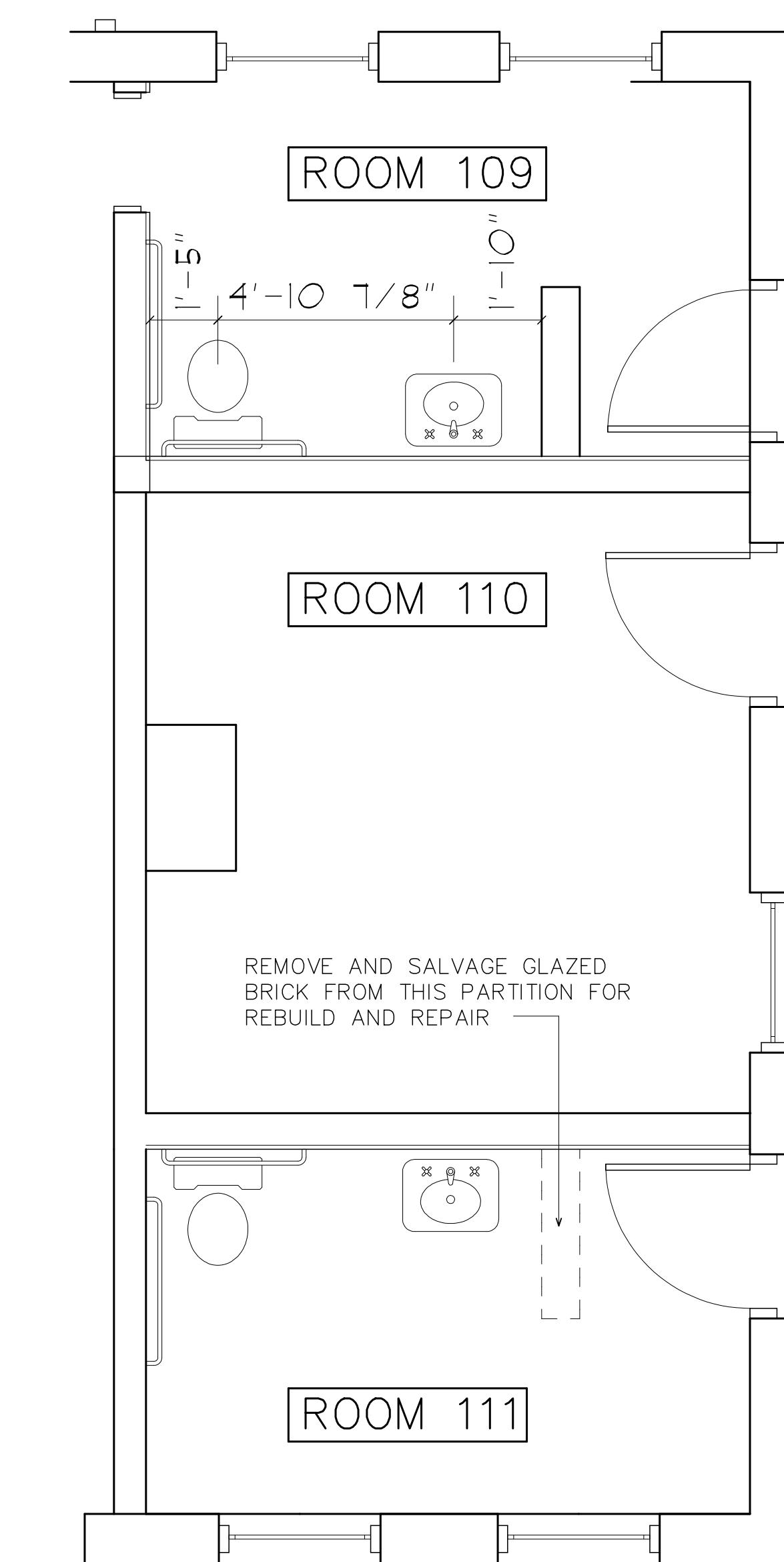
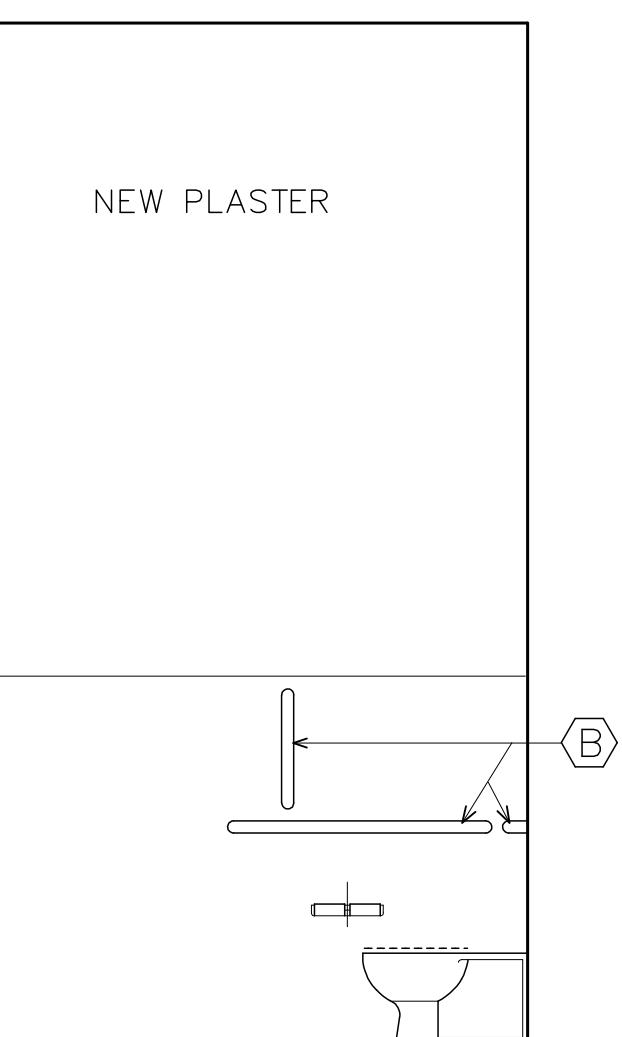
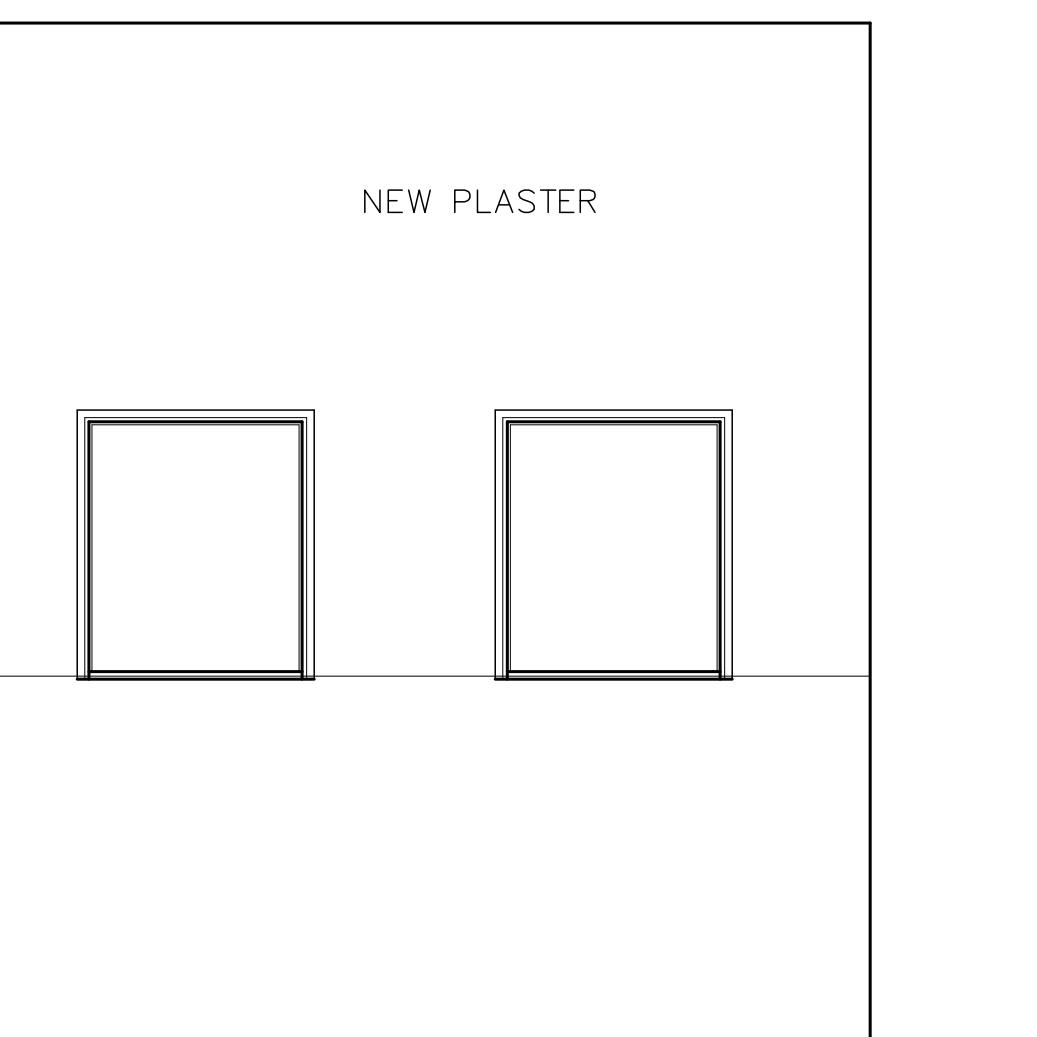
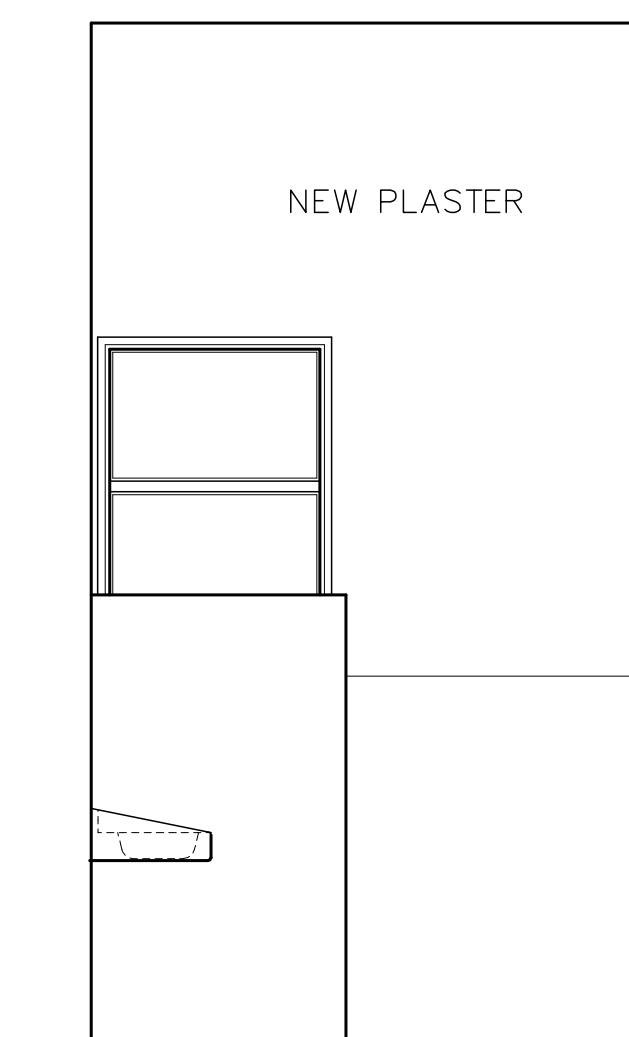
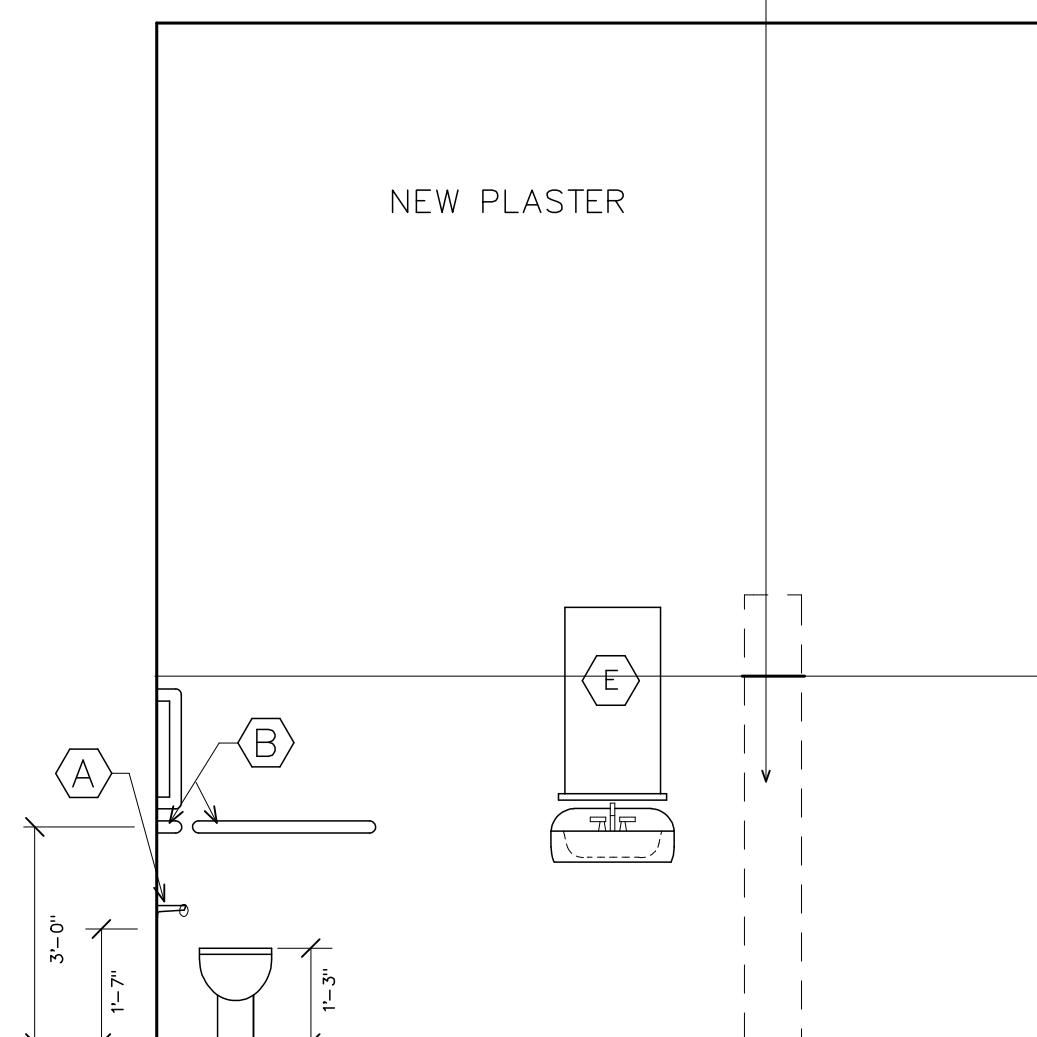
PLAN NORTH

GENERAL NOTES



ELEVATION - ROOM 109

SCALE: 3/8" = 1'-0"

FILL IN WALL VOID WITH SALVAGED SLATE FROM PARTITIONS.
FILL CONCRETE FLOOR TO MATCH HEIGHT AND TEXTURE
OF EXISTING FLOOR

ELEVATION - ROOM 110

SCALE: 3/8" = 1'-0"

FLOOR PLAN

SCALE: 3/8" = 1'-0"

A 4.2

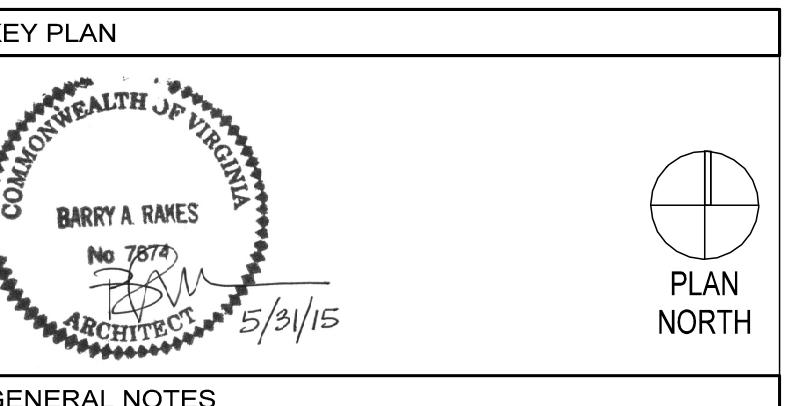
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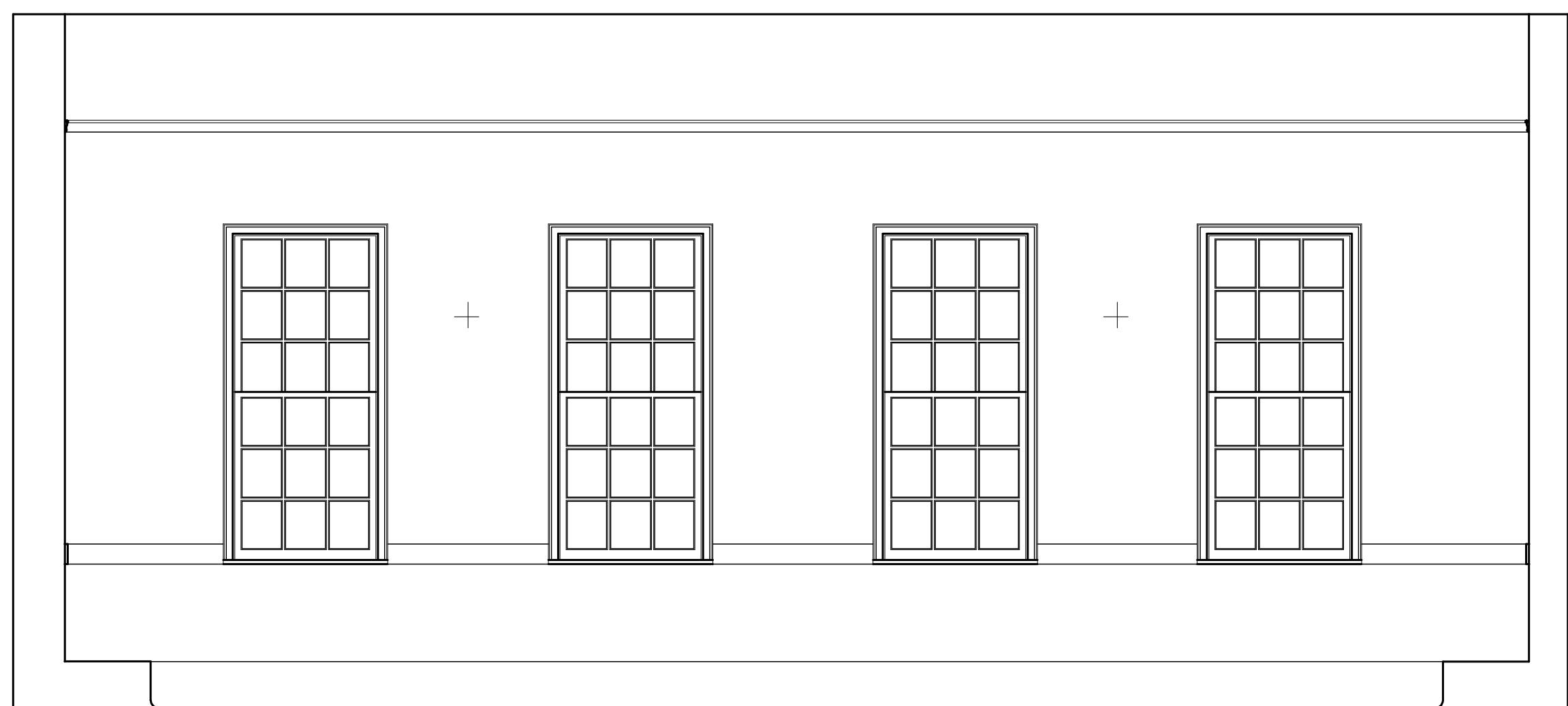
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NUMBER: *[Signature]* DATE: *[Signature]*

SHEET TITLE: ENLARGED TOILET PLANS



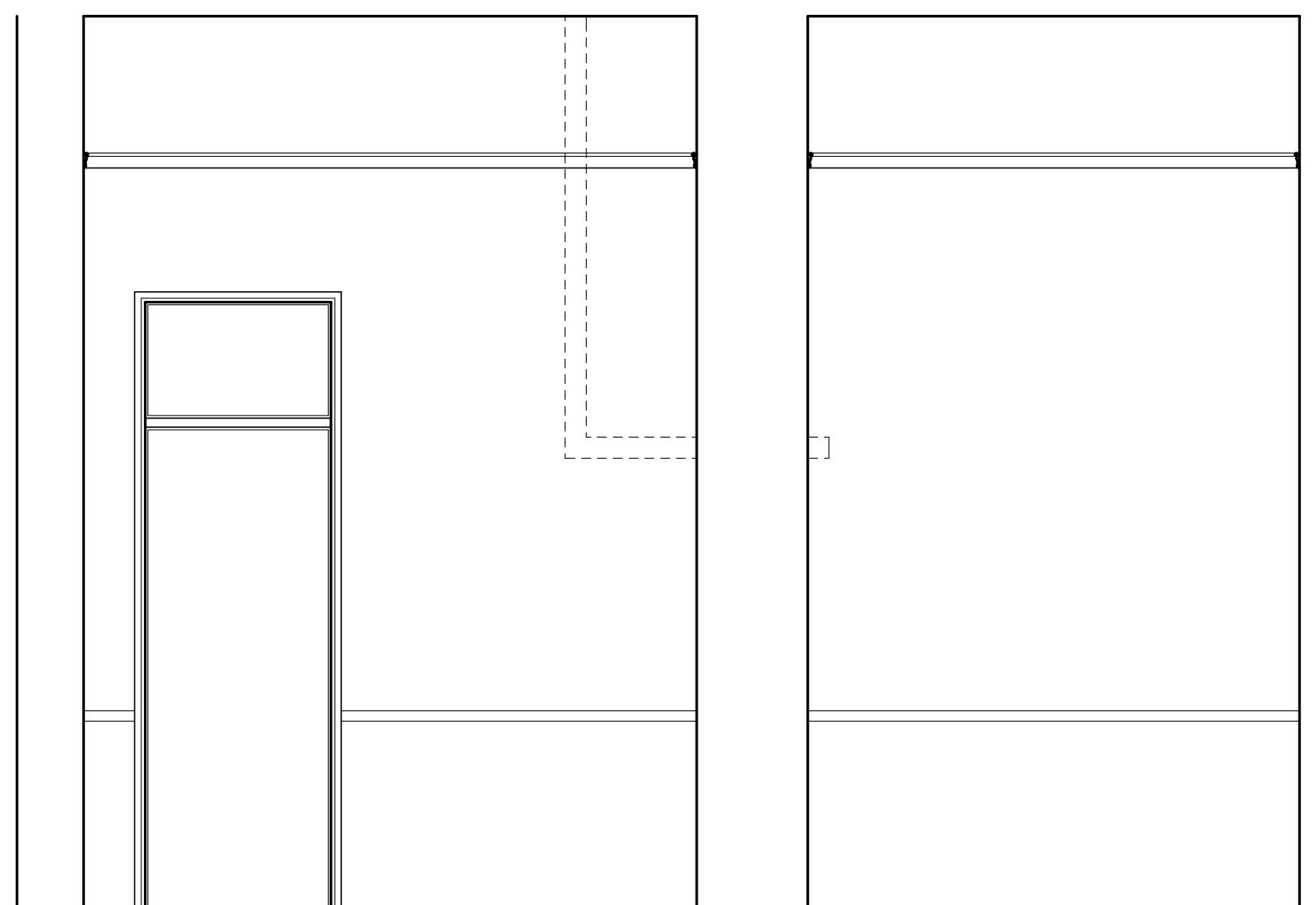
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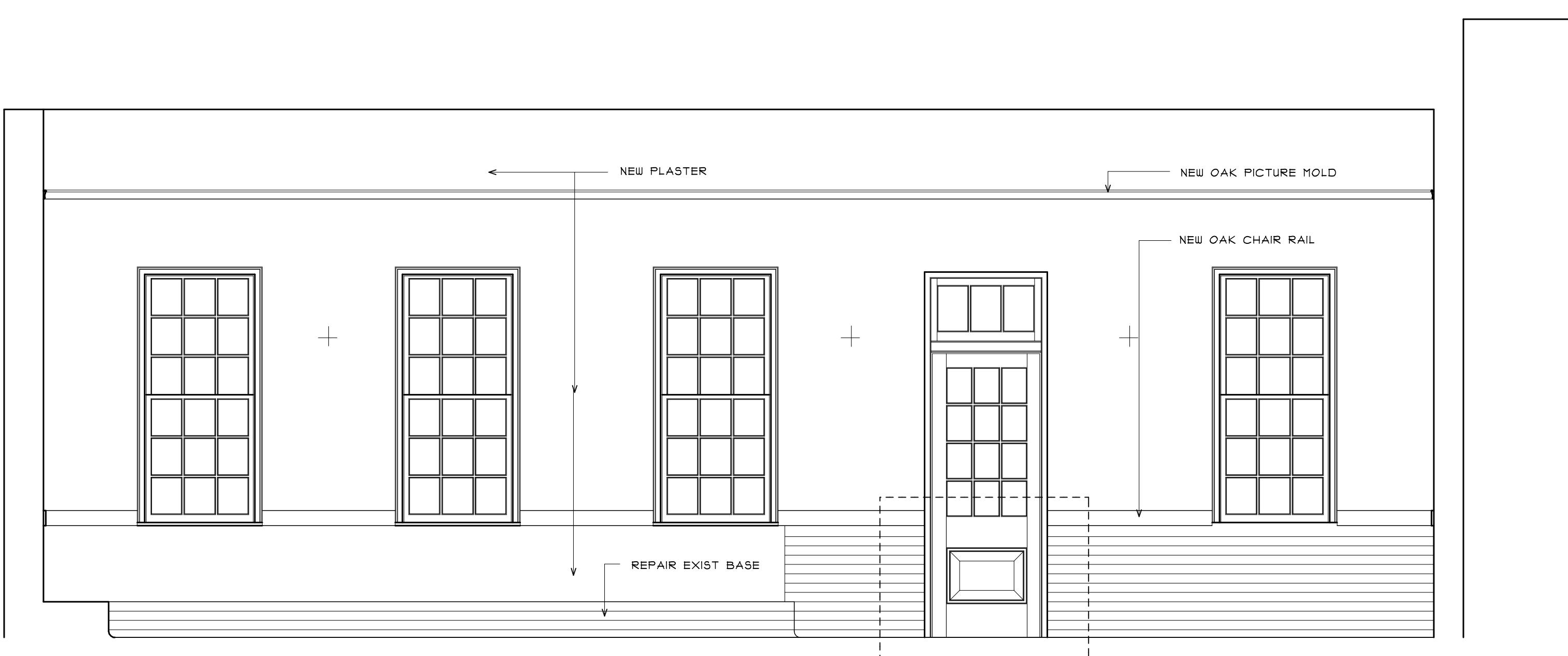
WEST WALL



SOUTH WALL



EAST WALL



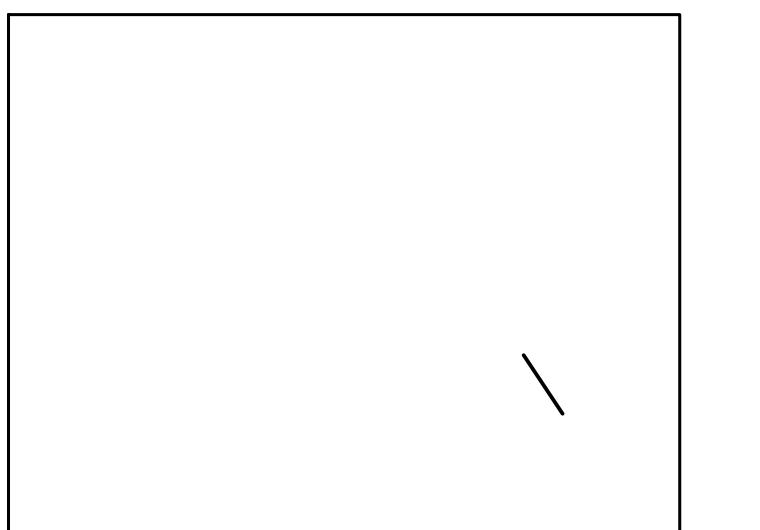
NORTH WALL

WEST WAITING ROOM - INTERIOR ELEVATIONS

3/8" = 1'-0"

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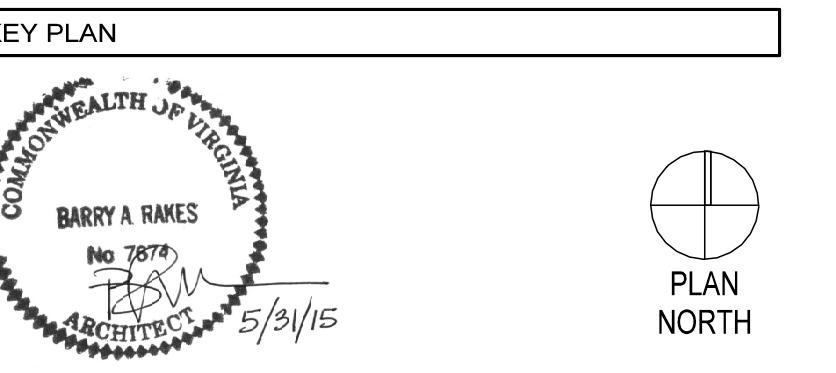
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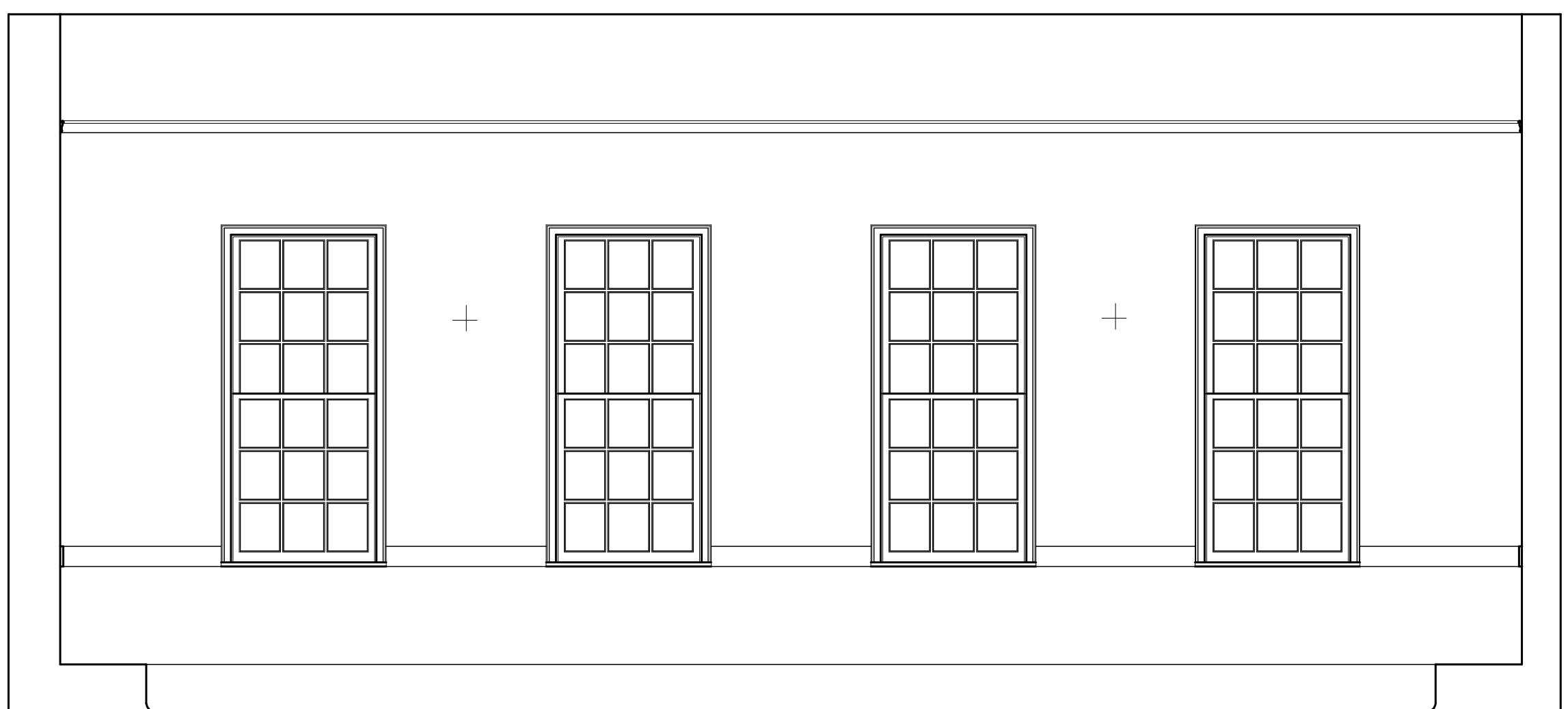
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SHEET TITLE INTERIOR ELEVATIONS

A5.1



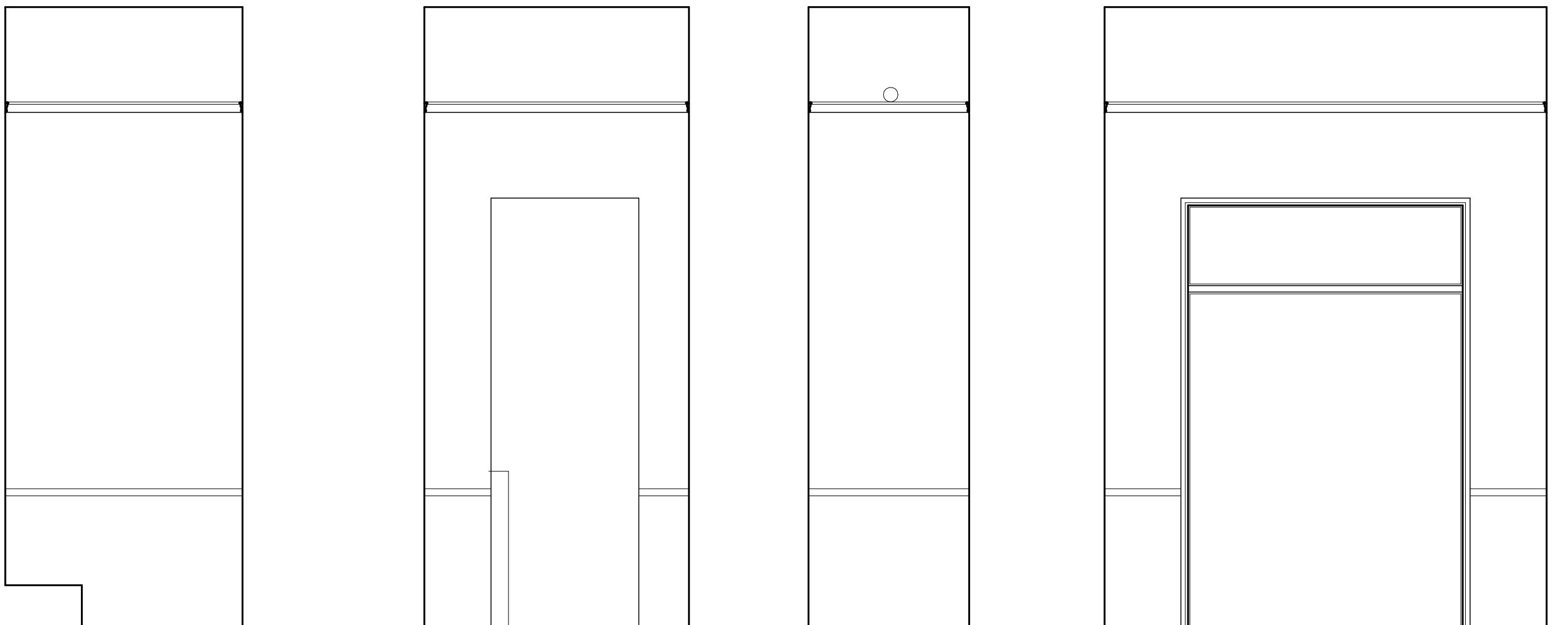
PLAN
NORTH



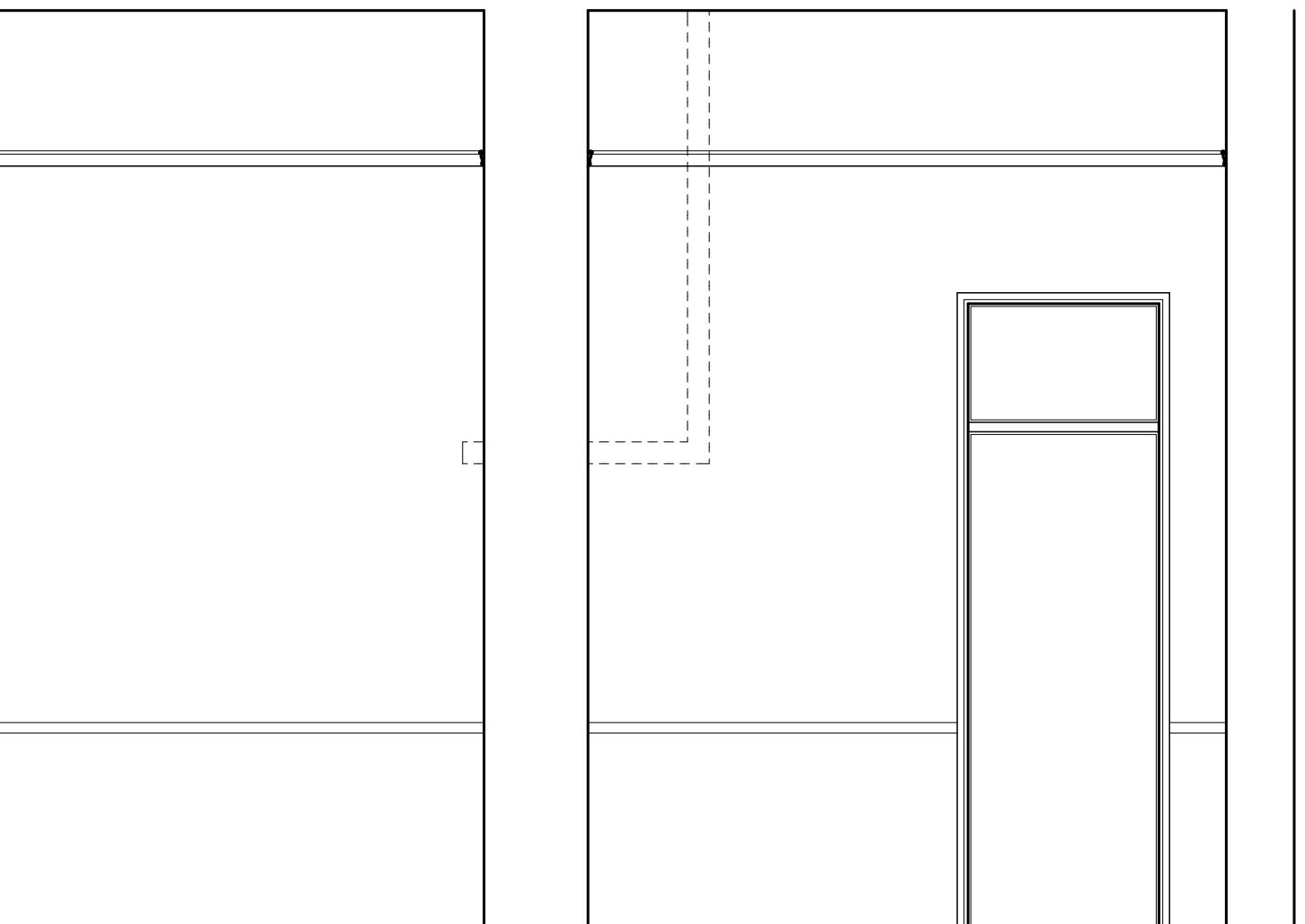
EAST WALL



SOUTH WALL



WEST WALL



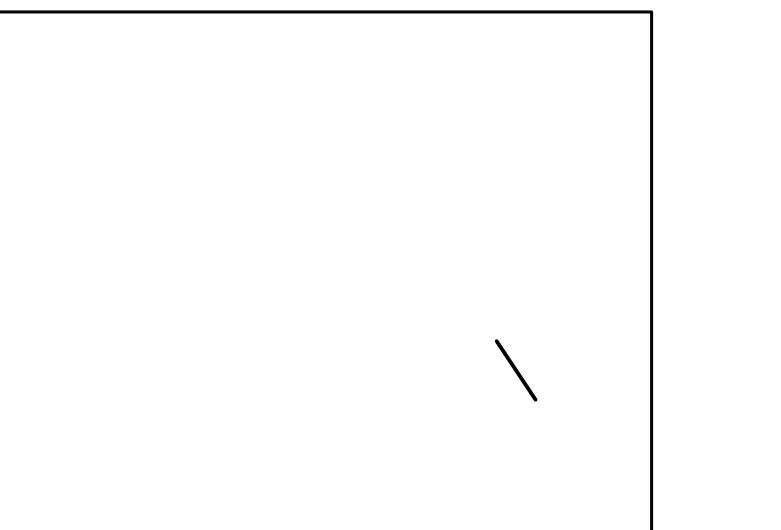
NORTH WALL

EAST WAITING ROOM - INTERIOR ELEVATIONS

3/8" = 1'-0"

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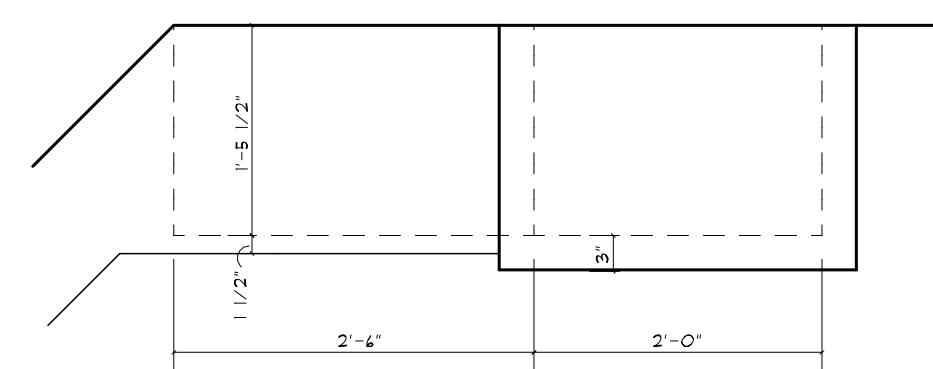
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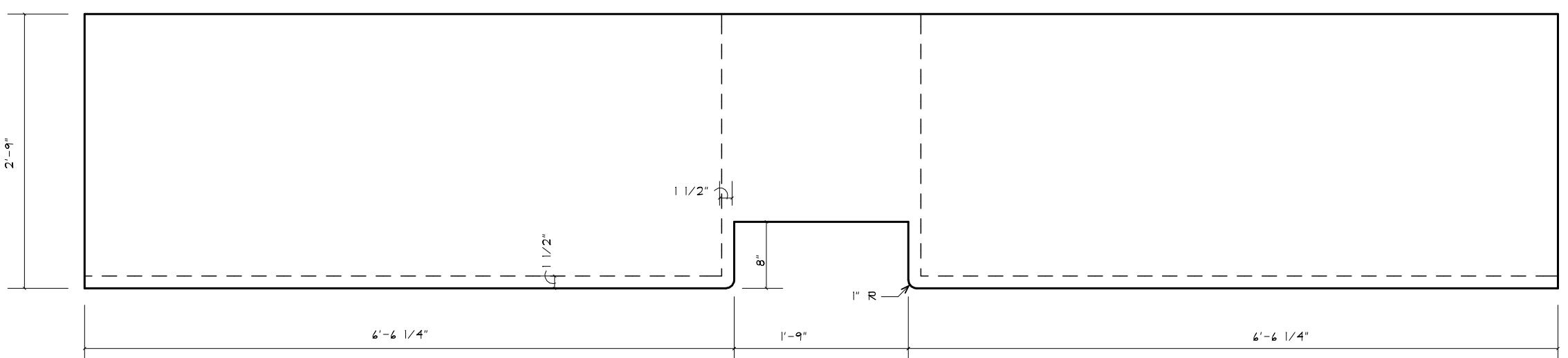
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PLAN VIEW



PLAN VIEW

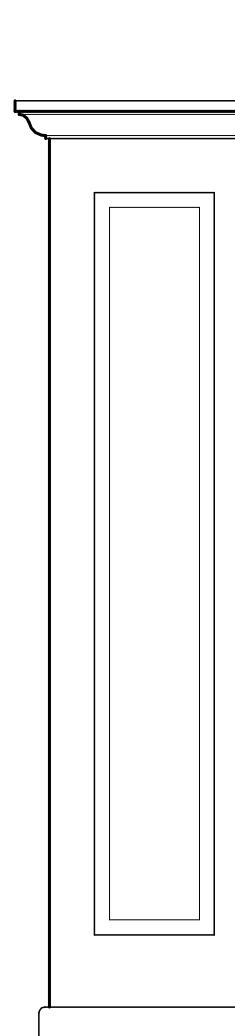
KEY PLAN	
 BARRY A RAKES No. 7878 B.R.A. ARCHITECT 5/3/15	
PLAN NORTH	
GENERAL NOTES	
HARDWARE	
1. VANDYKES: BLACK PORCELAIN KNOB AND ROSETTE, STORE ID 2000840, RFG NO: H/H# 2.25" BLK/BPC IRN ROSETTES 2. VANDYKES: 2 3/8" BACKSET RIMLOCK, STORE ID 20481 3. VANDYKES: RESTORERS CUPBOARD LATCH, ITEM# 0202004 4. VANDYKES: BELWITH KEELER 5/8" BORING CATCH, NO: 21148 5. VANDYKES: WARWICK BIN PULL, STORE ID: 203244 6. VANDYKES: 2 1/2" DK BRONZE BALL TIP HINGES, NO: 210481 7. VANDYKES: CAST IRON COAT HOOK, ITEM# 02023345	

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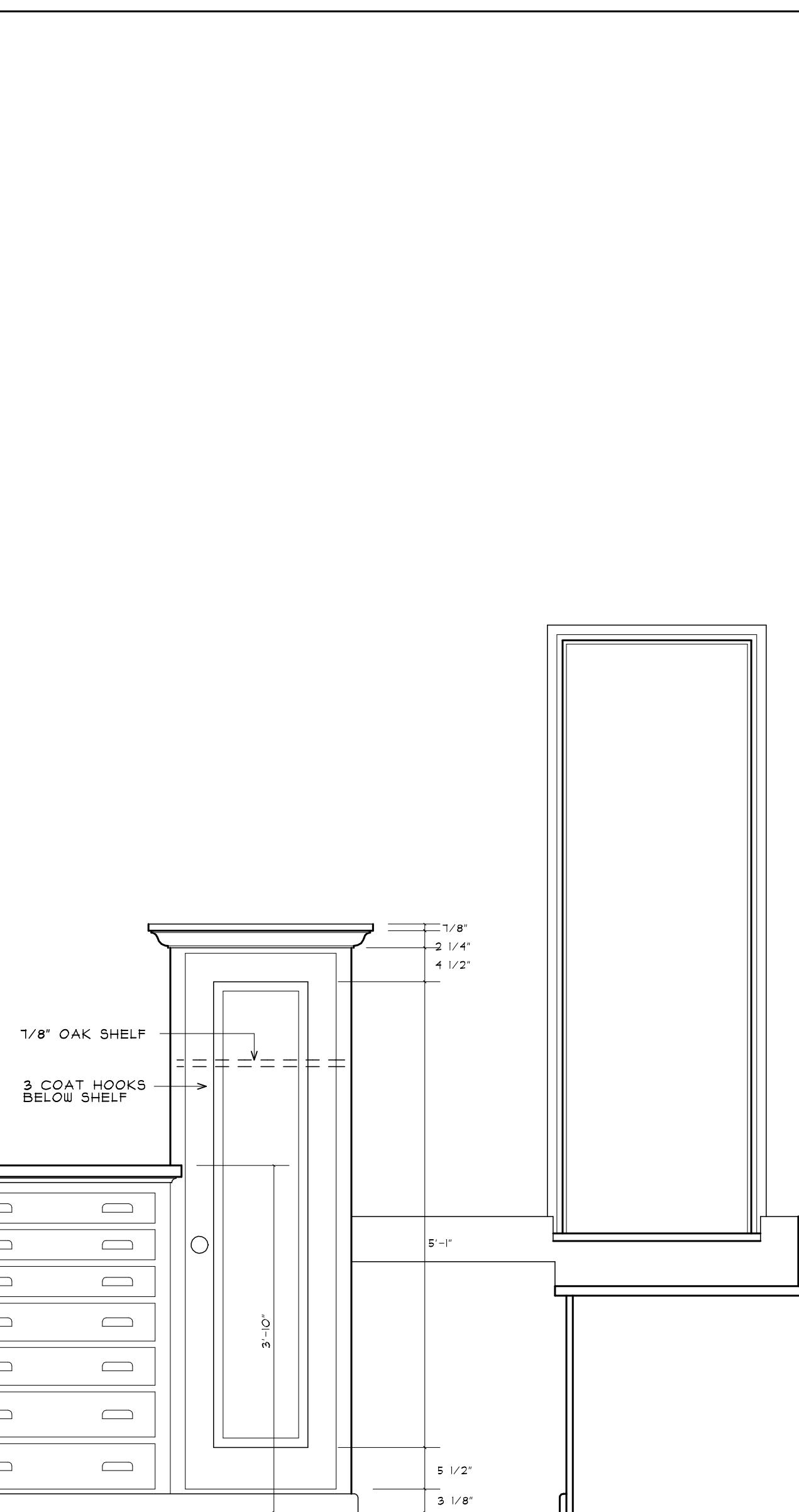
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SHEET TITLE TICKET OFFICE ELEVATIONS



SIDE VIEW



EAST ELEVATION

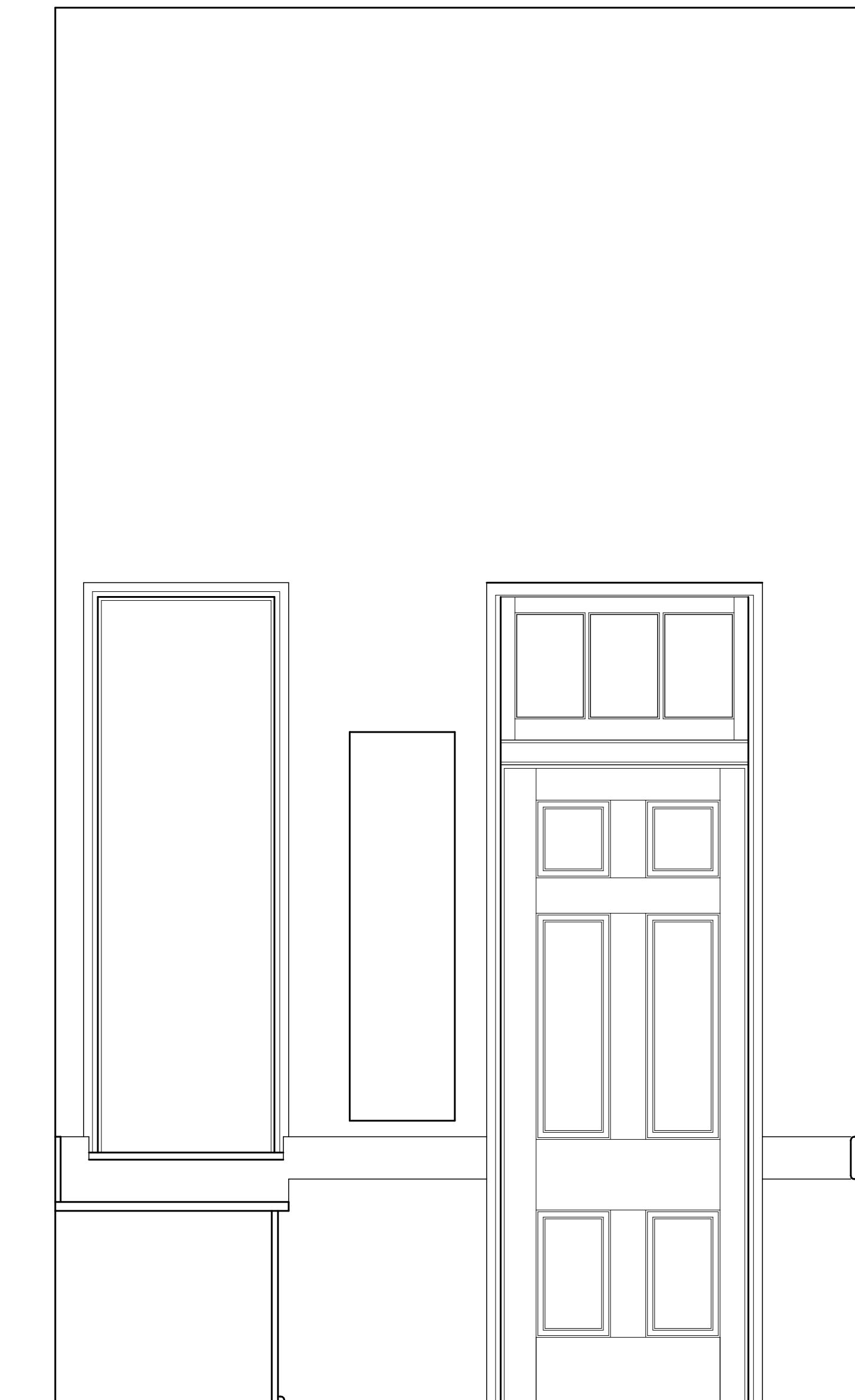
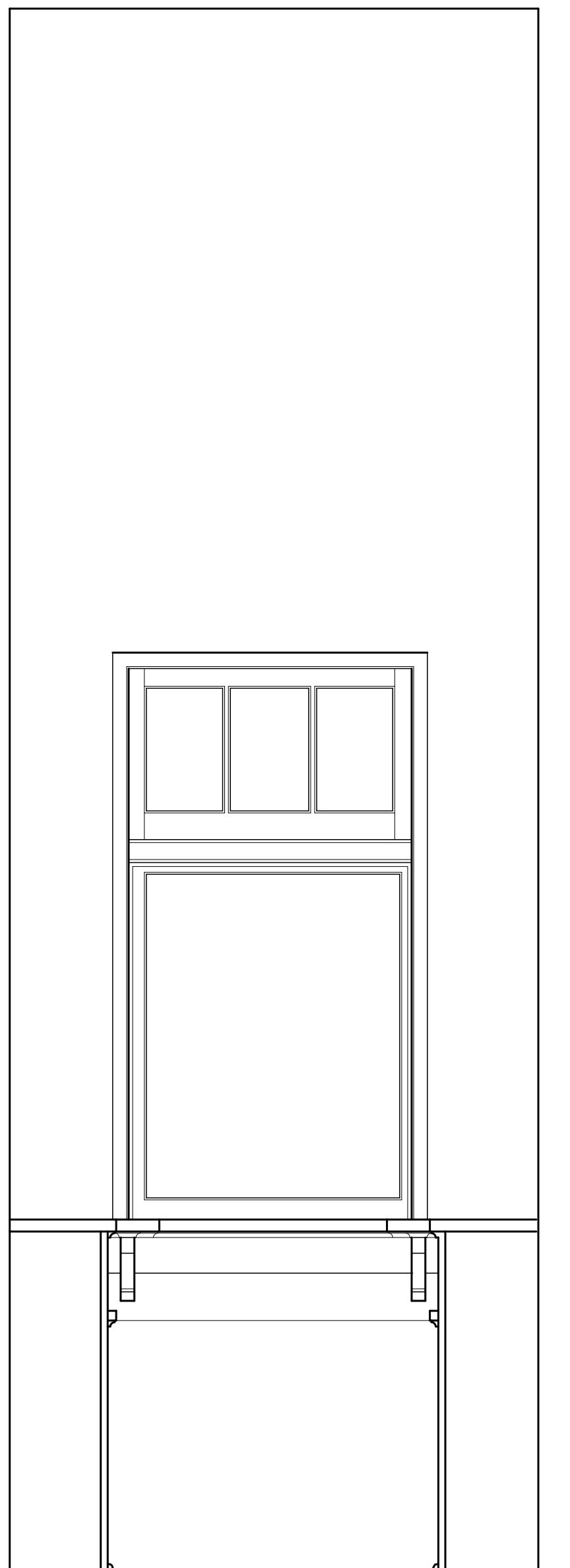
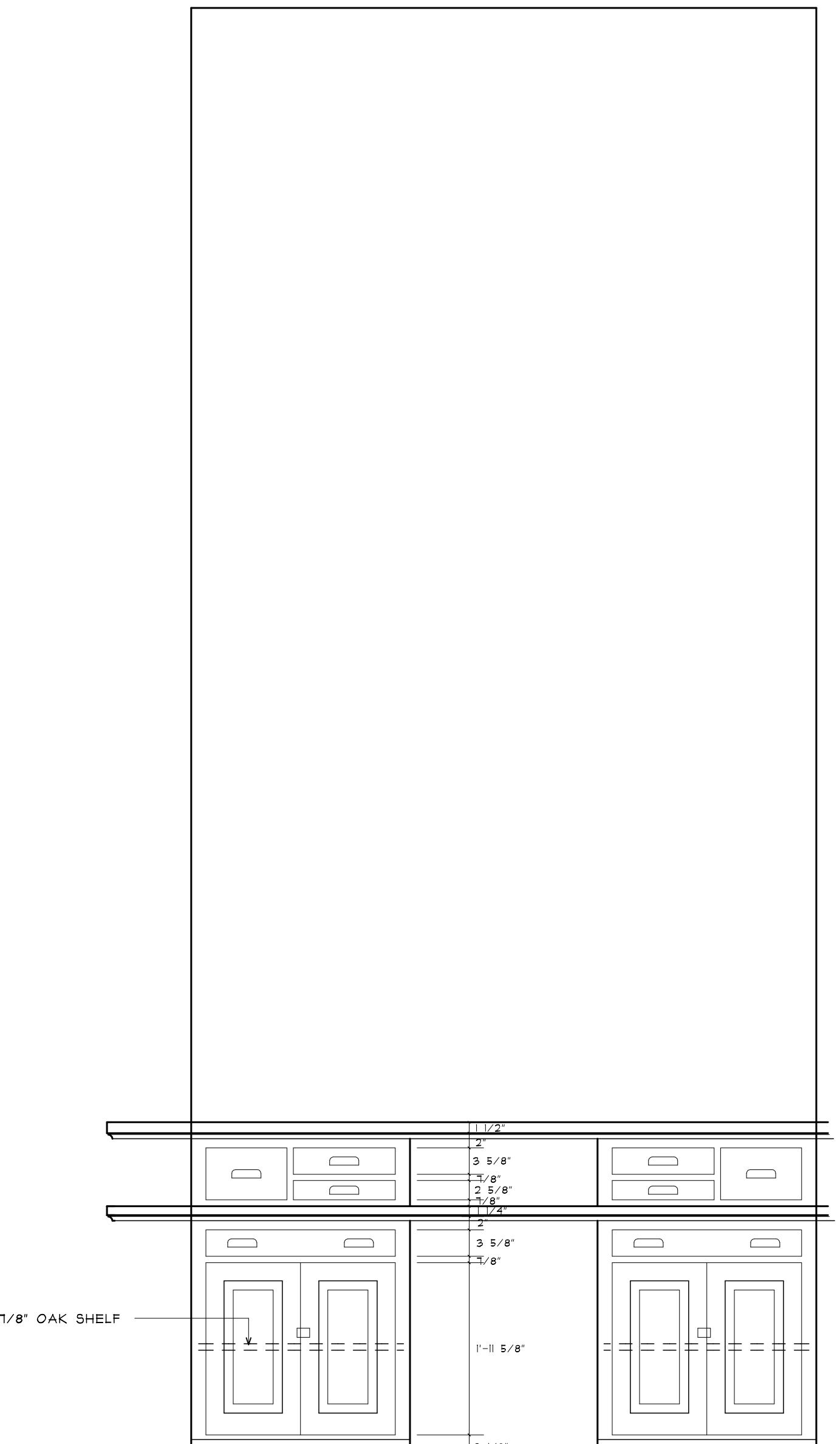
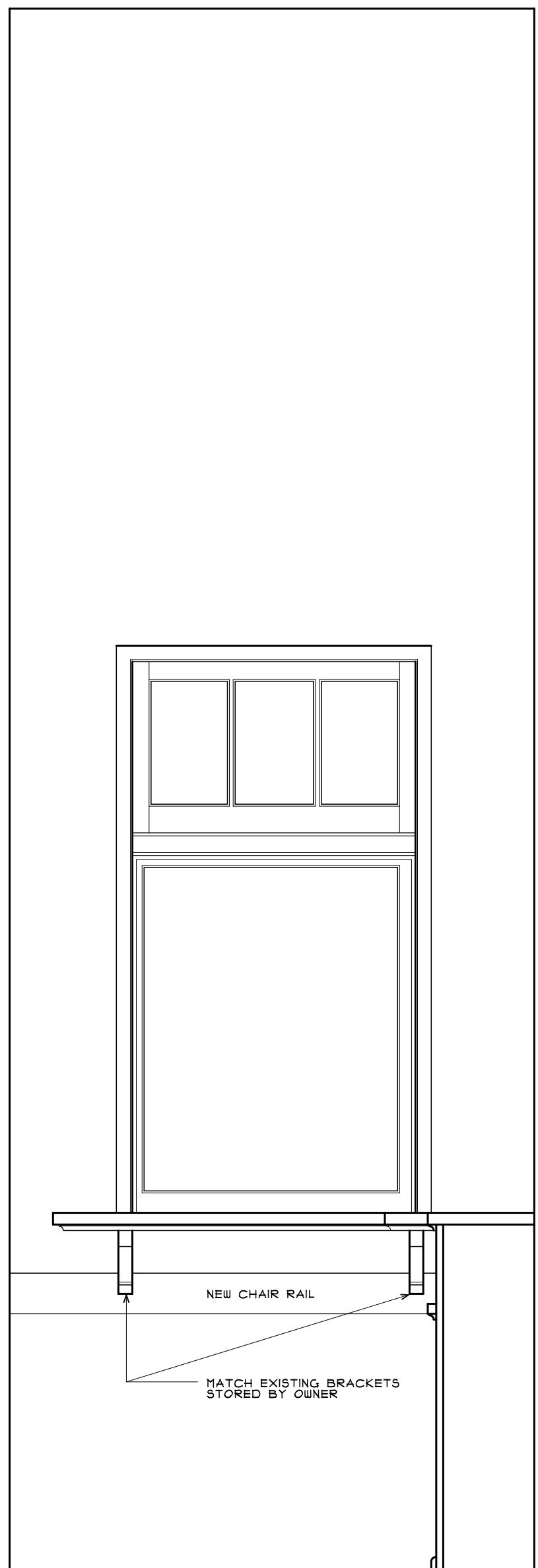
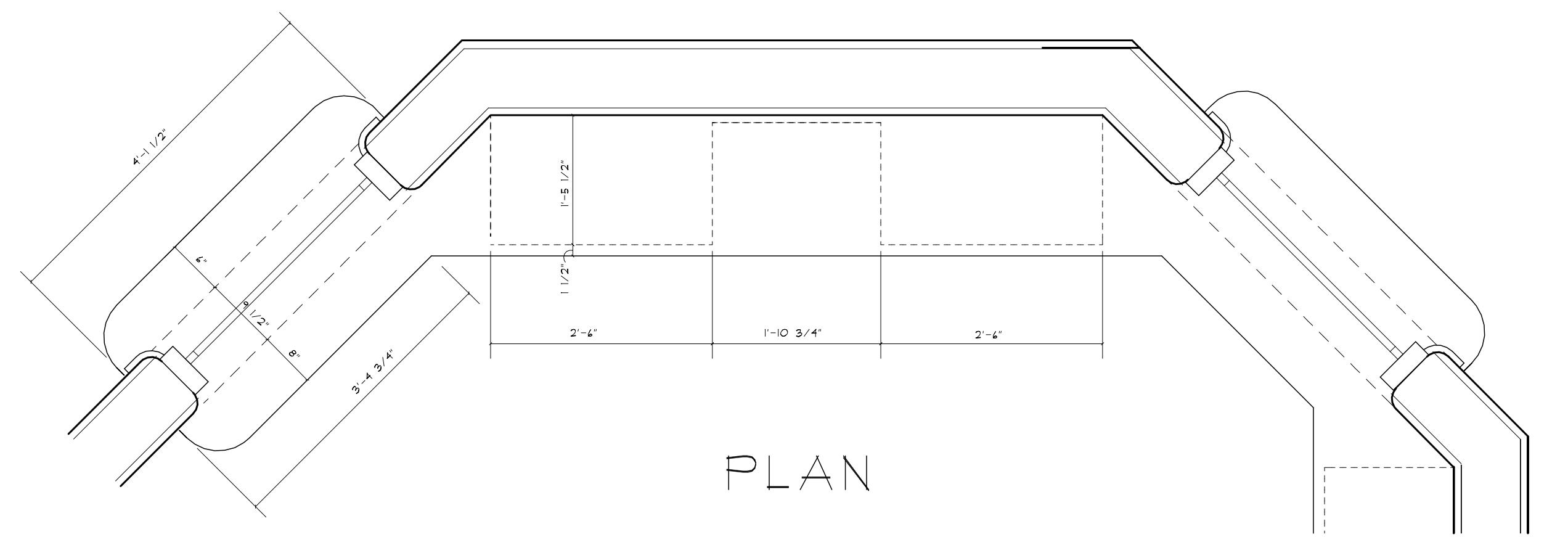


SOUTH

TICKET OFFICE INTERIOR ELEVATIONS

SCALE: 3/4" = 1'-0"

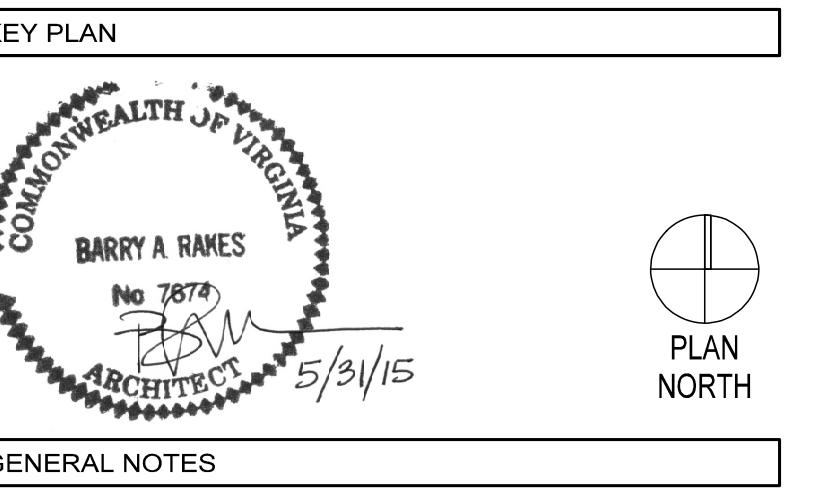
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TICKET OFFICE INTERIOR ELEVATIONS

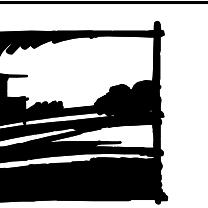
SCALE: 3/4" = 1'-0"

KEY PLAN	
 BARRY A. RAKES No. 7570 ARCHITECT 5/3/15	
PLAN NORTH	
GENERAL NOTES	
HARDWARE 1. VANDYKES: BLACK PORCELAIN KNOB AND ROSETTE, STORE ID 2000840, RFG NO: H/H68 2.25" BLK/BPC IRN ROSETTES 2. VANDYKES: 2 3/8" BACKSET RIMLOCK, STORE ID 20451 3. VANDYKES: RESTORERS CUPBOARD LATCH, ITEM# 0202006 4. VANDYKES: BELWITH KEELER 5/8" BORING CATCH, NO: 21146 5. VANDYKES: WARWICK BIN PULL, STORE ID: 203244 6. VANDYKES: 2 1/2" DK BRONZE BALL TIP HINGES, NO: 210981 7. VANDYKES: CAST IRON COAT HOOK, ITEM# 02023945 STORE ID203421	
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A5.4	



PLAN NORTH

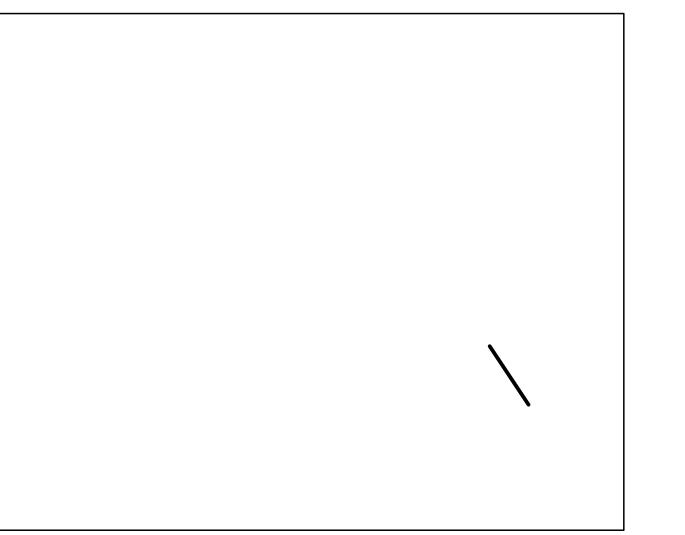
GENERAL NOTES



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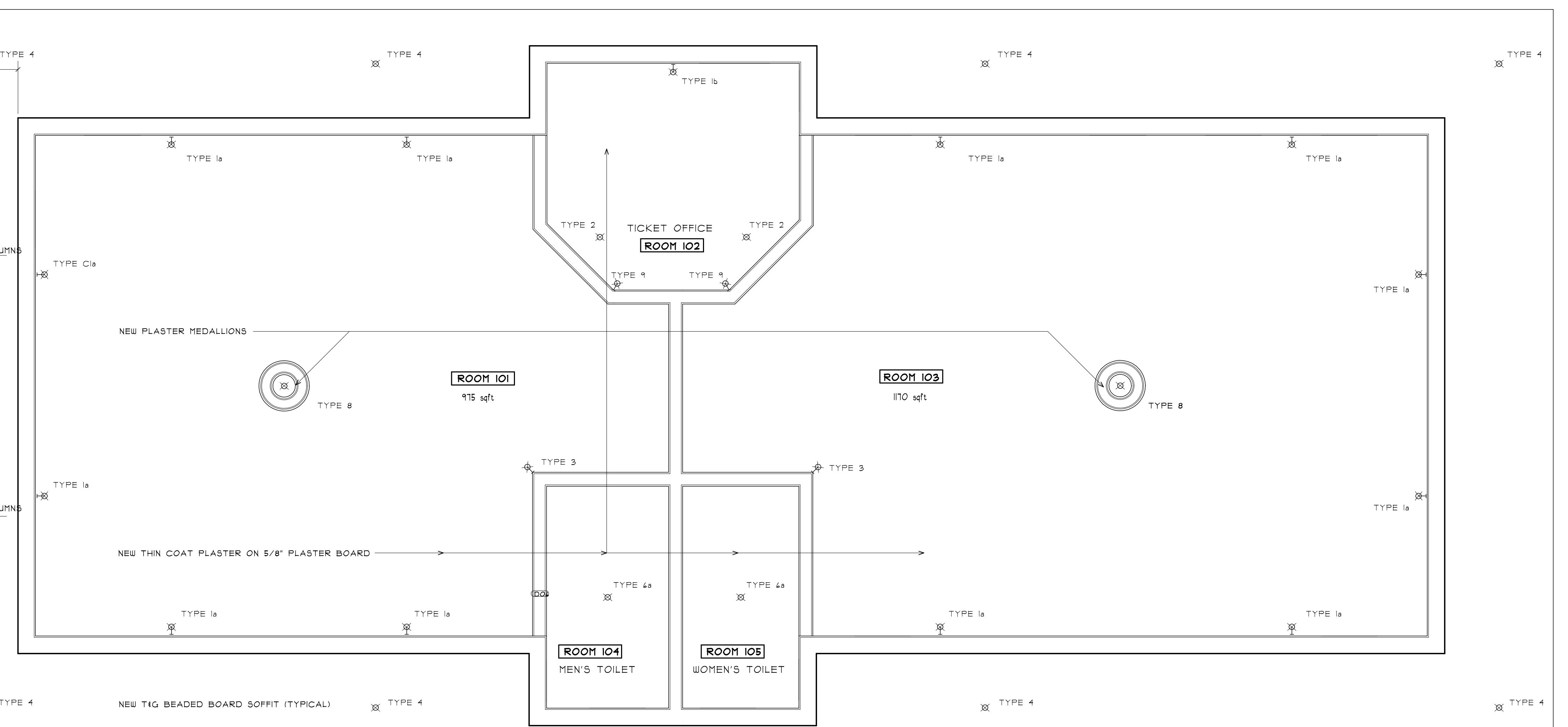
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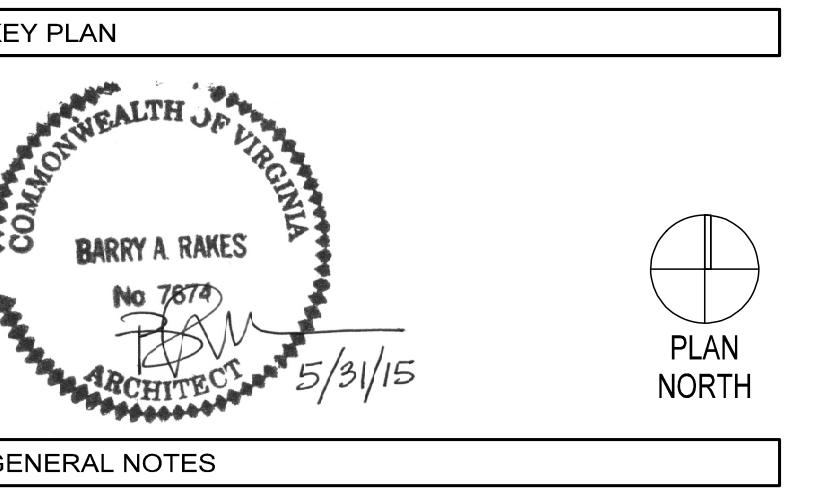
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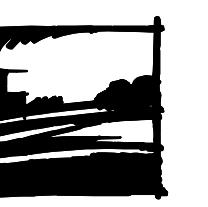
SHEET TITLE REFLECTED CEILING PLAN

A6.1





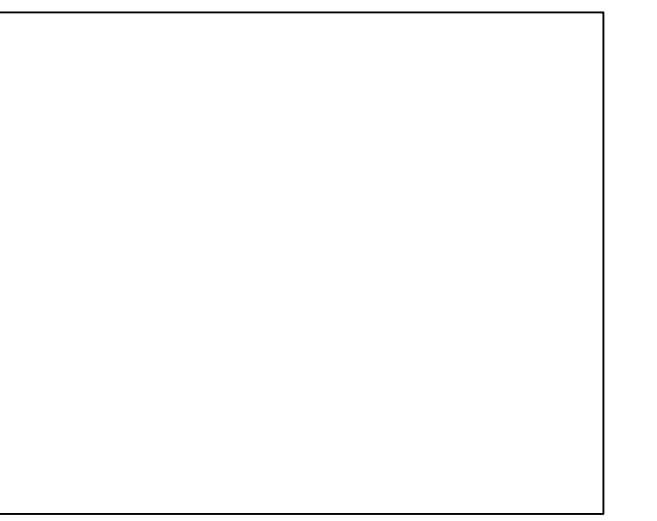
GENERAL NOTES



Landscape Architecture
Architecture
Community Planning
Historic Preservation

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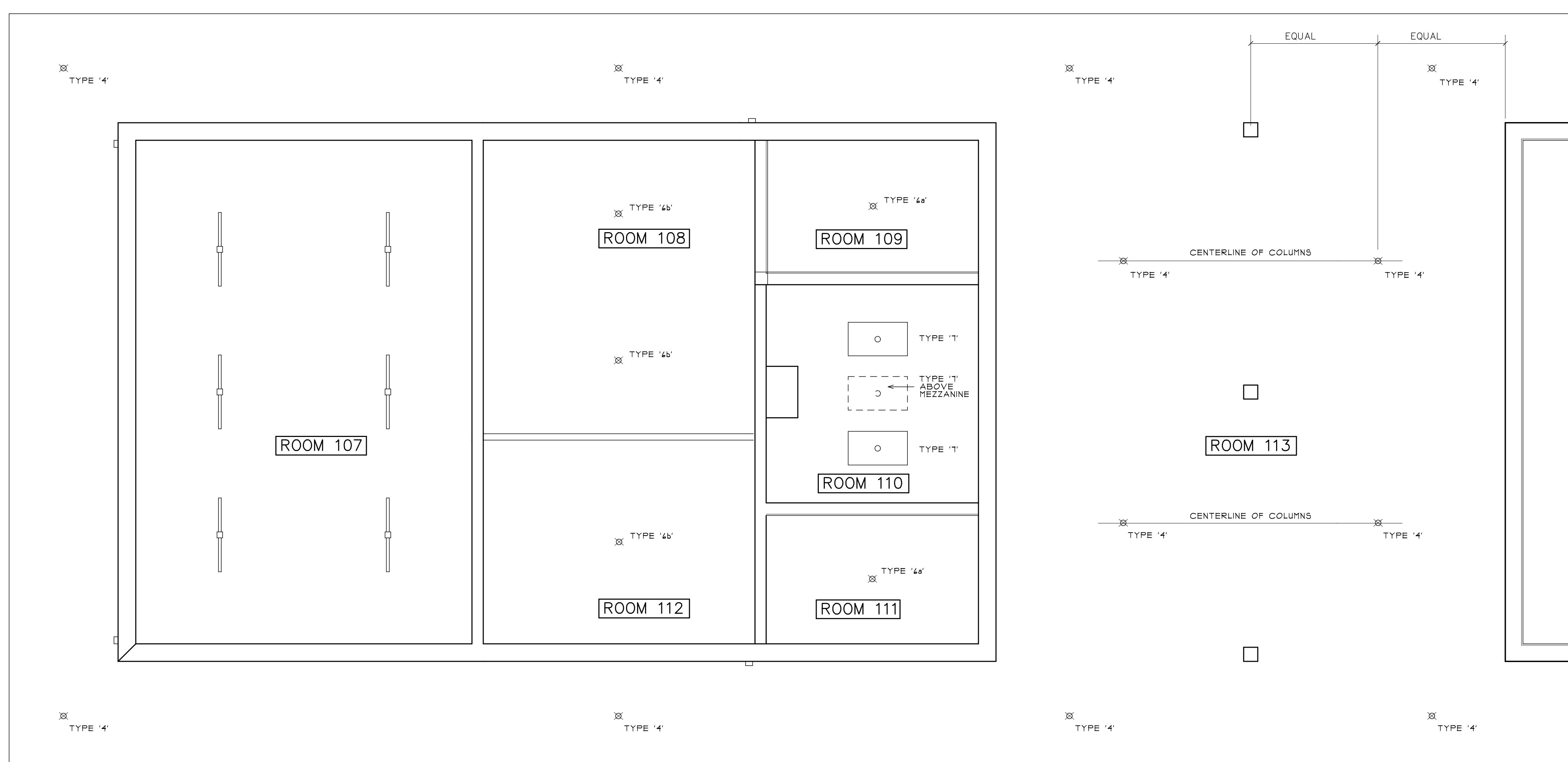
10 CHURCH AVE SE, PLAZA SUITE 1 ROANOKE, VIRGINIA 24011 540.342.6001
**VIRGINIAN RAILWAY
PASSENGER STATION
PHASE II - RESTORATION**
VDOT UPC # 103592
STATE PROJ# EN05-128-325, C502
ROANOKE, VA
SPECTRUM DESIGN PROJECT NO. 12138

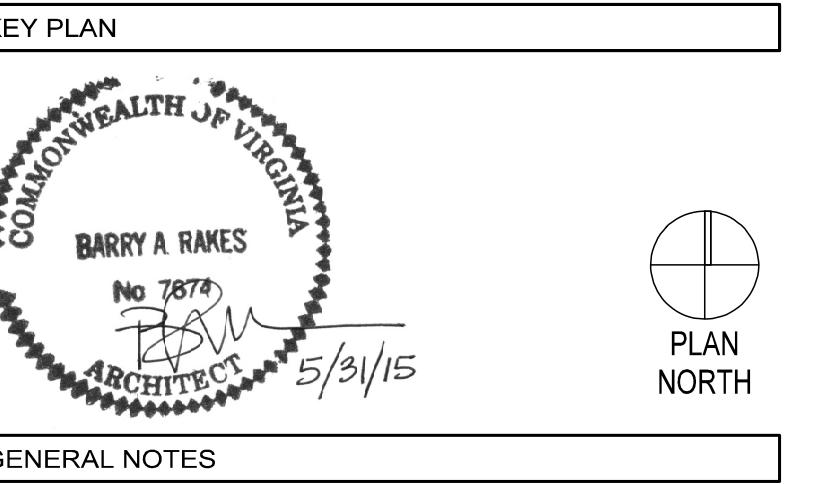
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SHEET TITLE REFLECTED CEILING PLAN

A6.2

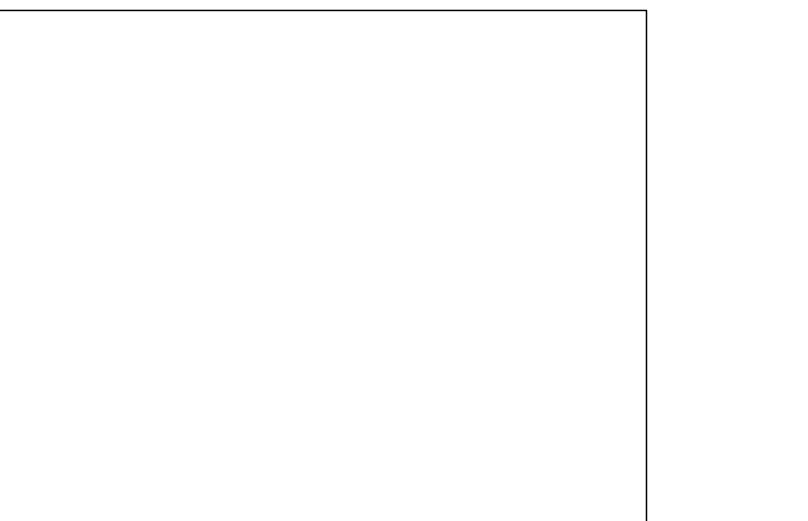




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SHEET TITLE FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR		BASE		WAINGSCOT		WALLS		CROWN		CEILING		REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		MATERIALS	HEIGHT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
101	WEST WAITING ROOM	1	1 EXISTING TERRAZZO FLOOR TO REMAIN	2	2 EXISTING CONCRETE TO REMAIN	3	3 NEW TERRAZZO FLOOR	4	4 NEW CONCRETE FLOOR	5	5 NEW TILE FLOOR	6	6	7	7	8	9	10 EXISTING GLAZED BRICK BASE	11	1 EXISTING GLAZED BRICK WAINGSCOT	12	2 NEW WOOD CHAIR RAIL	13	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	

DOOR & FRAME SCHEDULE										KEY PLAN	
DOOR						FRAME					
DOOR NO.	SIZE	CONDITION	GLASS	TRANSOM	CONDITION	REPAIRS	CONDITION	REPAIRS	HARDWARE	REMARKS	
D01	3-OXT-1	ENLARGED DOOR OPENING				NEW OUTSWING DOOR AND TRANSOM SASH	TRANSOM BAR AND HEAD INTACT	REPLACE JAMBS, STOP AND TRIM		DOOR OPENING WIDENED	
D02	3-OXT-1					NEW OUTSWING DOOR	PAINTED DOOR AND TRANSOM FRAME	REPL LEFT STOP, REPL HINGE SIDE TRIM			
D03	3-OXT-1	I2 LT (I2 X)	INTACT (3 X)			NEW OUTSWING DOOR	DOOR/FRAME - WATER DAMAGE	REPL JAMBS, STOP AND TRIM		TERMITE DAMAGE	
D04	2-IIXT-1	I2 LT (8 X)	INTACT (3 X)	PARTIAL TRANSOM HDWR	NEW OUTSWING DOOR	TERMITE DAMAGE BOT DOOR/FRAME	EXAMINE FRAME FOR DAMAGE, REPL STOP	HINGES, EXT PULL BAR	TERMITE DAMAGE		
D05	3-OXT-4	VENEERS LOOSE, PARTIALLY DELAM.	N/A	INTACT (1 X)	HARDWARE INTACT	INTACT DOOR AND TRANSOM FRAME	REPAIR JAMB ROT, REPAIR STOP, REPL TRIM	HINGES, MORTISE LOCK	KEEPER MISSING		
D06	3-OXT-1					FRAME INTACT	REPAIR BOT 2' JAMBS, REPL STOP AND TRIM				
D07	PR3OT4	DAMAGE TO 2 PANELS		INTACT (1 X)	2-3 LITE TRANSOM	INTACT DOOR AND TRANSOM FRAME	REPAIR BOT 8" JAMBS + TRIM,	HINGES, MORTISE LOCK	STATIONARY DOOR HDWR (DOORS NOT IN OPENING)		
D08										RETURNED TO A TICKET WINDOW	
D09	3-OXT-1	VENEERS LOOSE, NOTCH AT LOCK		INTACT (3 X)		SOME TERMITE DAMAGE	REPAIR BOT 2' JAMBS, REPL STOP AND TRIM	MISSING, HOLE FOR D.B.	DOOR NOT IN OPENING		
D10		REPL W/ PR 3 PANEL DOORS		INTACT (4 X)		INTACT					
D11		REPL W/ PR 3 PANEL DOORS		INTACT (4 X)		INTACT					
D12		REPL W/ PR 3 PANEL DOORS		INTACT (4 X)		INTACT					
D13	ROLLING	INTACT		INTACT (4 X)		REPAIR EXISTING DOOR	INTACT				
D14		2 PANEL V-GROOVE DOOR		INTACT (?X)		REPAIR EXISTING DOOR	INTACT		INTACT		
D15		2 PANEL V-GROOVE DOOR		INTACT (?X)		REPAIR EXISTING DOOR	INTACT		INTACT	STRIKE STYLE DAMAGED	
D16		2 PANEL V-GROOVE DOOR		INTACT (?X)		REPAIR EXISTING DOOR	INTACT		INTACT		
D17	3-OXT-1	NEW OPENING	SINGLE LT			2 PANEL W/UPPER OBSCURE GL	NEW FRAME				
D18	3-OXT-1	NEW OPENING	SINGLE LT			2 PANEL W/UPPER OBSCURE GL	NEW FRAME				
D19	2-4X4-8	DISPOSE OF EXISTING DOOR	SINGLE LT			2 PANEL W/UPPER OBSCURE GL					

	Landscape Architecture Architecture Community Planning Historic Preservation
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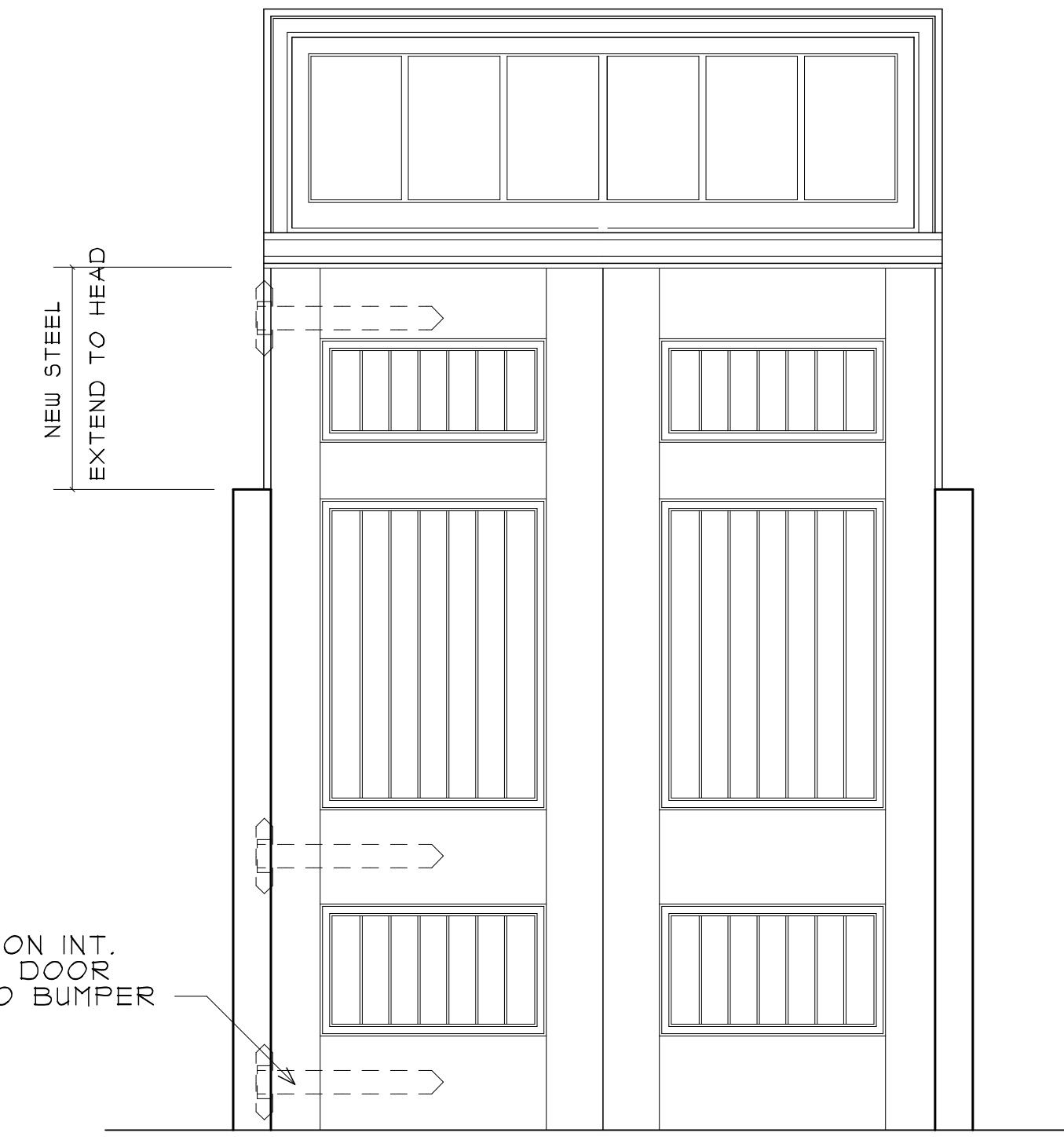
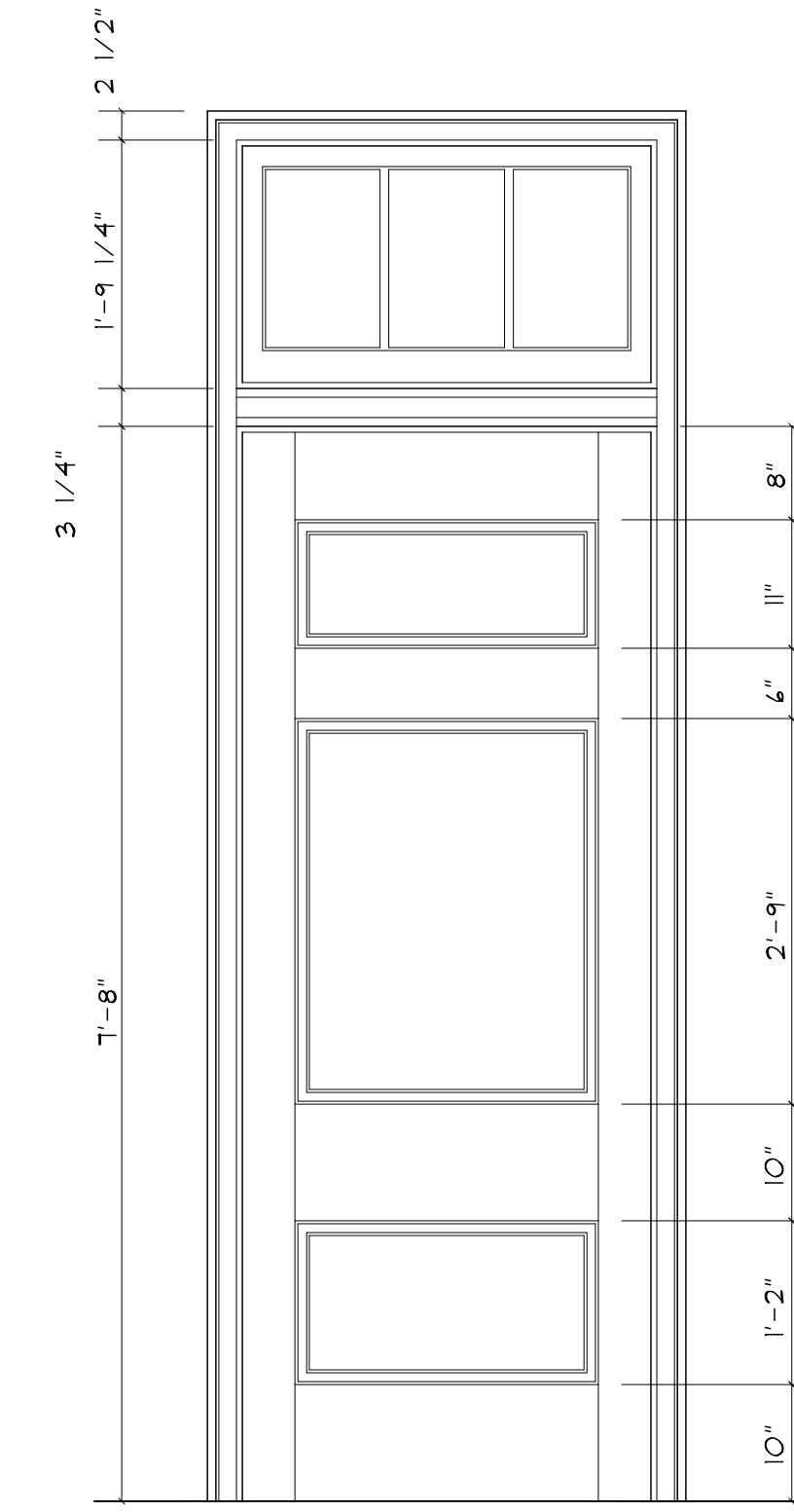
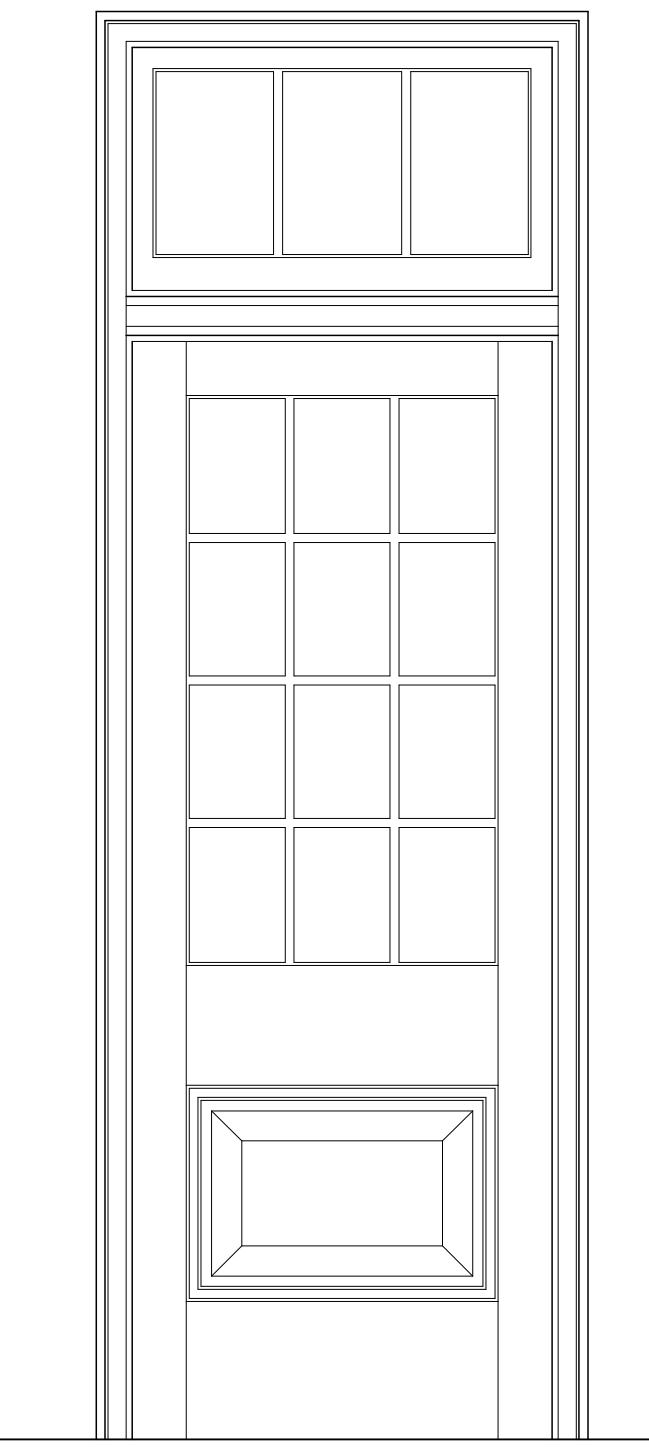
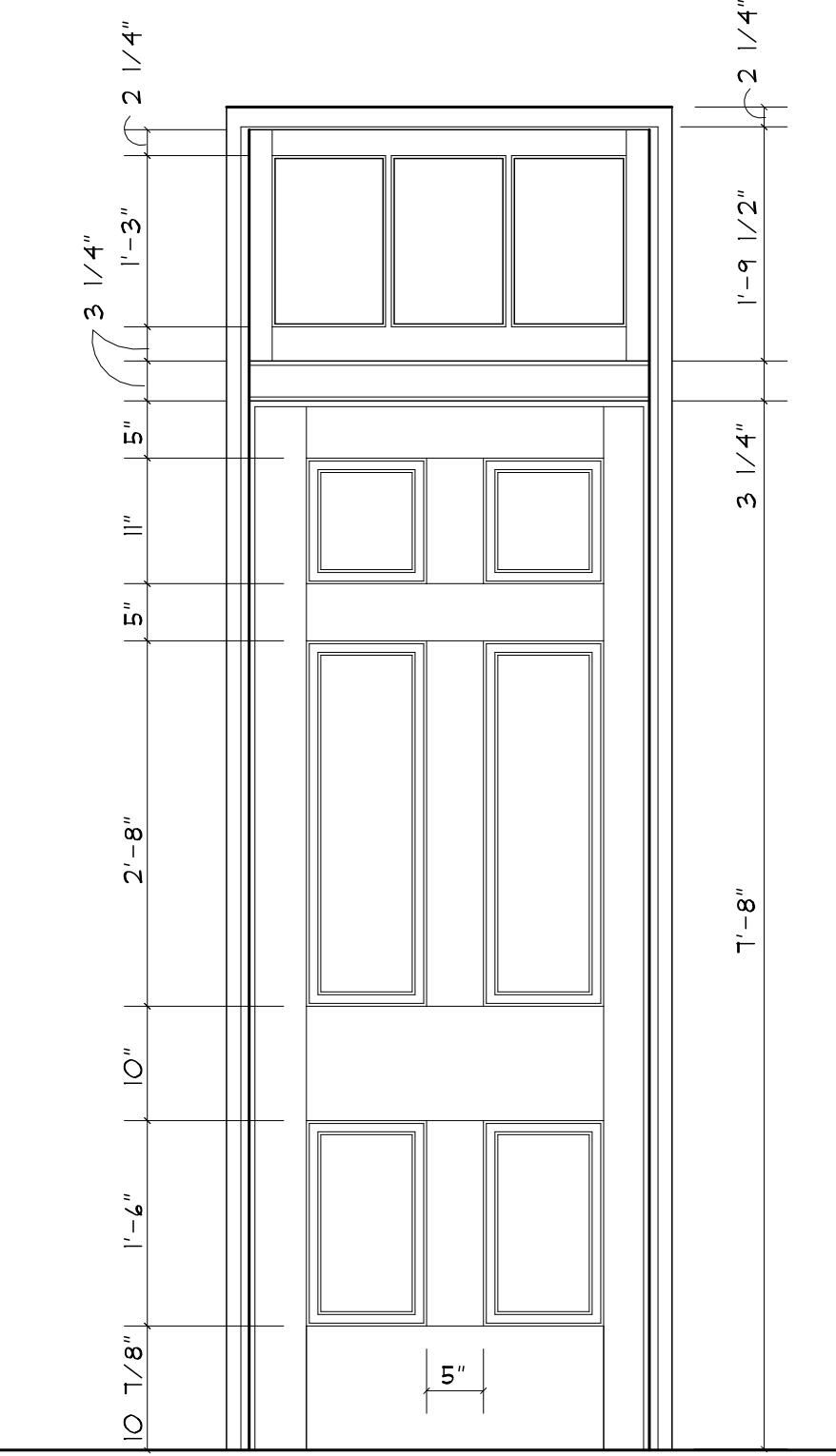
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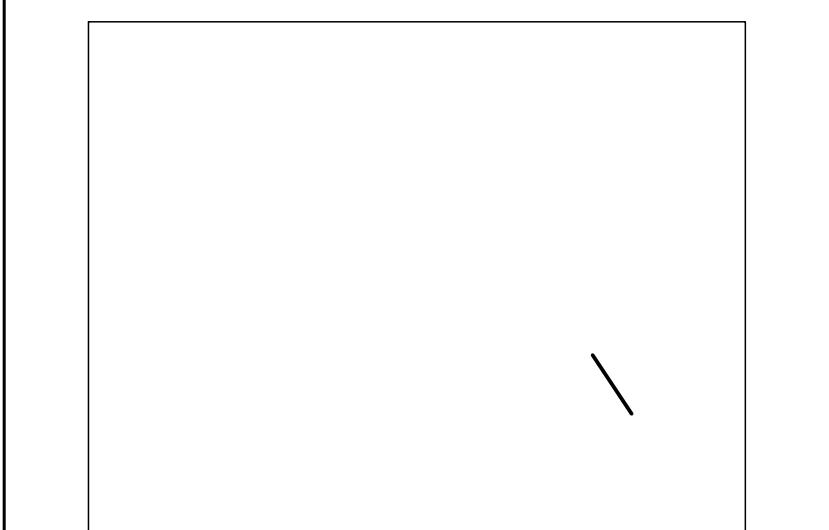
SHEET TITLE DOOR AND WINDOW SCHEDULE

WINDOW & FRAME SCHEDULE						FRAME					
SASH				FRAME							
WINDOW NO.	SASH CONDITION	GLASS	REPAIRS	CONDITION	REPAIRS			HARDWARE			
W1	INTACT	9/9		INTACT	REPL LEFT STOP AND PARTING BEAD (PB), REPL STOOL						
W2	INTACT	9/9		INTACT	REPL L/R STOP, REPL L PB, REPL STOOL						
W3	INTACT	9/9 (3X)		HORZ MUNTIN MISSING	REPL L STOP AND PB, REPAIR EXST STOOL						
W4	INTACT	9/9 (9X)		MUNTINS MISSING BOT SASH	REPL L STOP AND PB, REPL STOOL						
W5	INTACT	6 LITE TILT (IX)		INTACT	OK						
W6	INTACT	9 LITE TILT (IX)		INTACT	OK						
W7	NOT ACCESSIBLE				REPL R STOP AND PB, REPL STOOL						
W8	NOT ACCESSIBLE				REPL STOP AND L PB, REPL STOOL						
W9	NOT ACCESSIBLE				REPL L STOP AND PB, REPL STOOL						
W10	NOT ACCESSIBLE				REPL STOP AND L PB, REPL STOOL						
W11	NOT ACCESSIBLE				REPL STOP AND L PB, REPL STOOL						
W12	NOT ACCESSIBLE				REPL STOP AND L PB, REPL STOOL						
W13	NOT ACCESSIBLE				REPL L STOP AND PB, REPL STOOL						
W14	NOT ACCESSIBLE				REPL L STOP AND PB, REPL STOOL						
W15	NOT ACCESSIBLE				REPL STOP AND L PB, REPL STOOL						
W16	NOT ACCESSIBLE				REPL L STOP AND PB, REPAIR R STOP, REPL STOOL						
W17	NOT ACCESSIBLE				REPL L STOP AND PB, REPAIR R STOP, REPL STOOL						
W18	NOT ACCESSIBLE				REPL STOP AND L PB, REPL STOOL						
W19	INTACT	6/6 (9X)	IRONWORK INTACT	INTACT	REPL R STOP AND PB, REPL STOOL						
W20	INTACT	9/9 (18X)	IRONWORK INTACT	INTACT	REPL R STOP AND PB, REPL STOOL						
W21	INTACT	9/9 (18X)	IRONWORK INTACT	INTACT	REPL R STOP AND PB, REPL STOOL						
W22	INTACT	6/6 (TX)	IRONWORK INTACT	MUNTINS MISSING BOT SASH	REPL R STOP AND PB, REPL STOOL						
W23	INTACT	9/9 (ITX)	MUNTIN MISSING BOT SASH	TERMITE DAMAGE TO JAM AND SILL	REPLACE FRAME, SILL AND STOOL						
W24	INTACT	9/9 (4X)	ONE MUNTIN DAMAGED	TERMITE DAMAGE TO JAM AND SILL	REPL R STOP AND PB						
W25	INTACT	9/9 (4X)		SILL DAMAGED	REPL STOP AND L PB, REPL STOOL						
W26	INTACT	9/9 (2X)		SILL DAMAGED	REPL STOP AND L PB, REPL STOOL						
W27	INTACT	9/9 (18X)		SILL DAMAGED, RT JAMB DAMAGED	REPL SILL AND STOOL, STOP AND L PB, REPAIR JAMBS						
W28	INTACT	9/9 (18X)		BOT RAIL DAMAGED, SILL MISSING	REPL SILL AND STOOL, LEFT JAMB, REPAIR RIGHT JAMB						
W29	INTACT	9/9 (18X)		SILL MISSING							
W30	INTACT	9/9 (18X)		SILL MISSING							
W31	MISSING		TRANSOM INTACT	INTACT, SILL/SHLF DAMAGED							
W32	INTACT	6 LITE TILT (?X)		NOT ACCESSIBLE							
W33	INTACT	6 LITE TILT (?X)		NOT ACCESSIBLE							
W34	INTACT	6 LITE TILT (?X)		NOT ACCESSIBLE							
W35	INTACT	6 LITE TILT (?X)		NOT ACCESSIBLE							
W36	INTACT	9 LITE TILT (?X)		NOT ACCESSIBLE							
W37	INTACT	9 LITE TILT (?X)		NOT ACCESSIBLE							
W38	INTACT	9 LITE TILT (?X)		NOT ACCESSIBLE							
W39	INTACT	9 LITE TILT (?X)		NOT ACCESSIBLE							
W40	INTACT	9 LITE TILT (?X)		NOT ACCESSIBLE							
W41	INTACT	9 LITE TILT (?X)		NOT ACCESSIBLE							
W42	INTACT	9 LITE TILT (?X)		NOT ACCESSIBLE							
W43	INTACT	9 LITE TILT (?X)		NOT ACCESSIBLE							
W44	INTACT	9 LITE TILT (?X)		NOT ACCESSIBLE							
W45	INTACT	9 LITE TILT (?X)		NOT ACCESSIBLE							
W46	INTACT	9 LITE TILT (?X)		NOT ACCESSIBLE							
W47	INTACT	9 LITE TILT (?X)		NOT ACCESSIBLE							
W48	INTACT	9 LITE TILT (?X)		NOT ACCESSIBLE							
W49	INTACT	9 LITE TILT (?X)		NOT ACCESSIBLE							

A 8.2



KEY PLAN	
 BARRY A. RAKES No. 7878 ARCHITECT 5/31/15	
PLAN NORTH	
GENERAL NOTES	
 Landscape Architecture Architecture Community Planning Historic Preservation 120 W. Campbell Ave. SW Roanoke, VA 24011 tel: 540-342-5263 fax: 540-345-5625 www.hillstudio.com	
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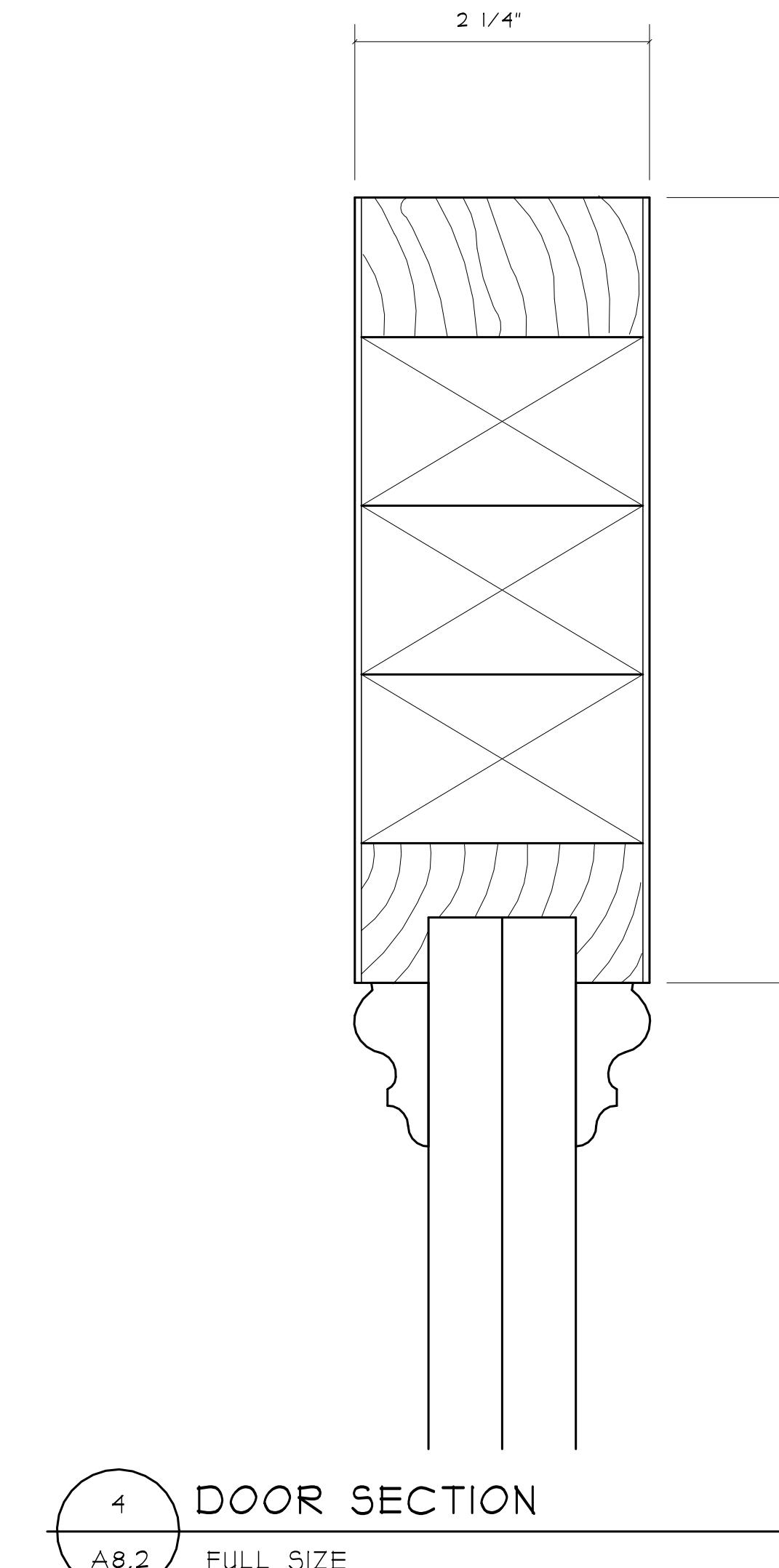
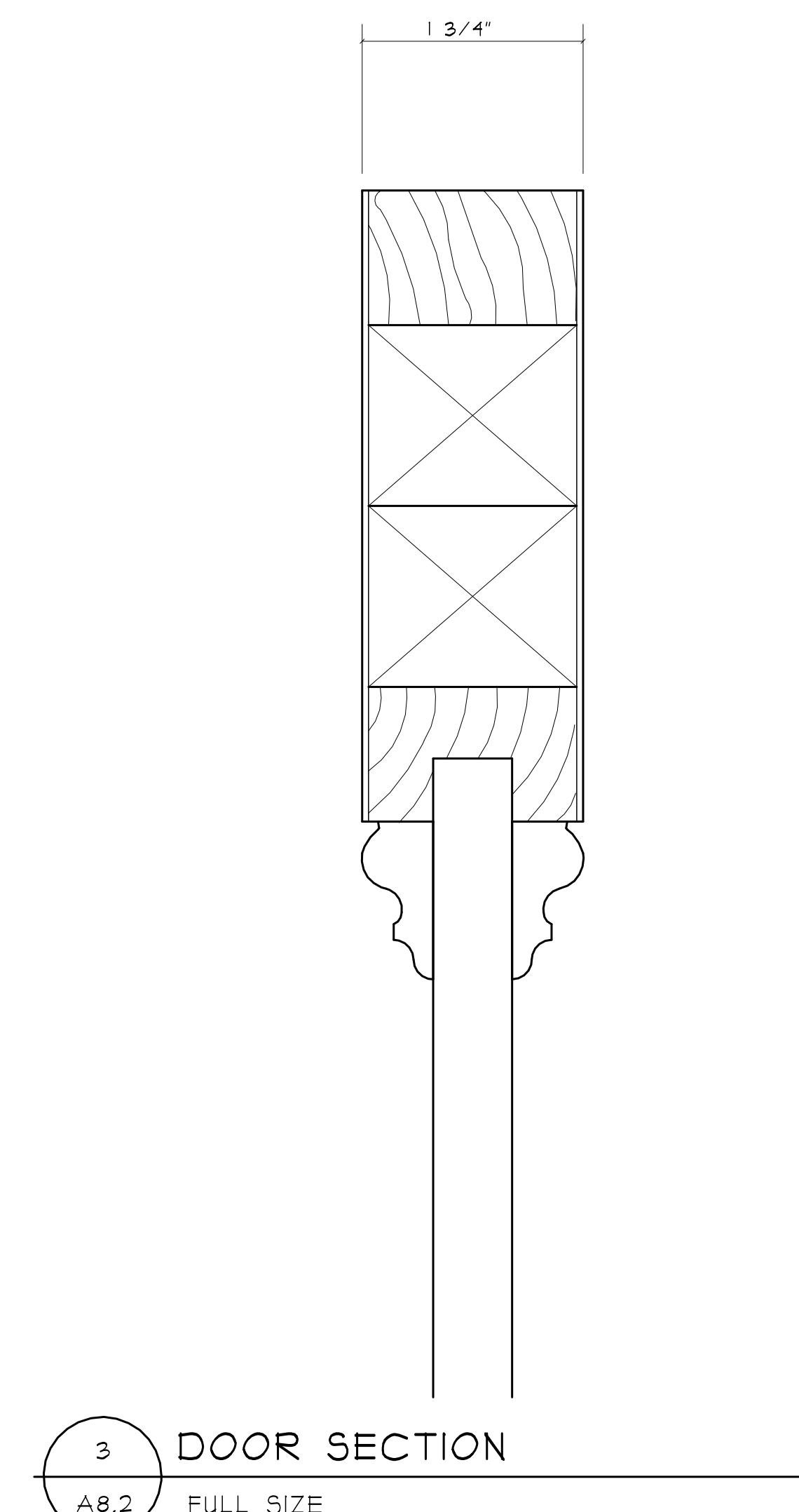
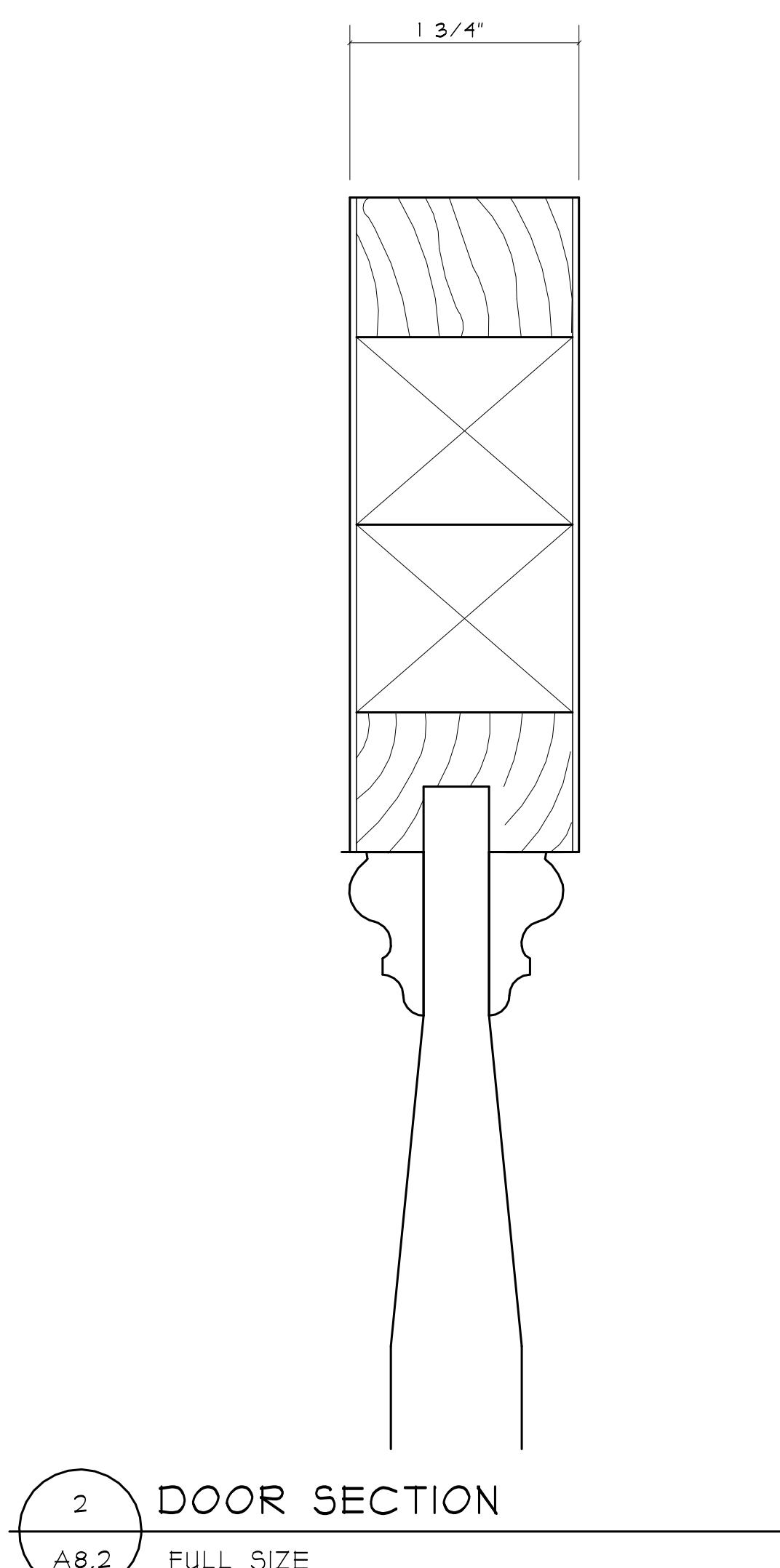
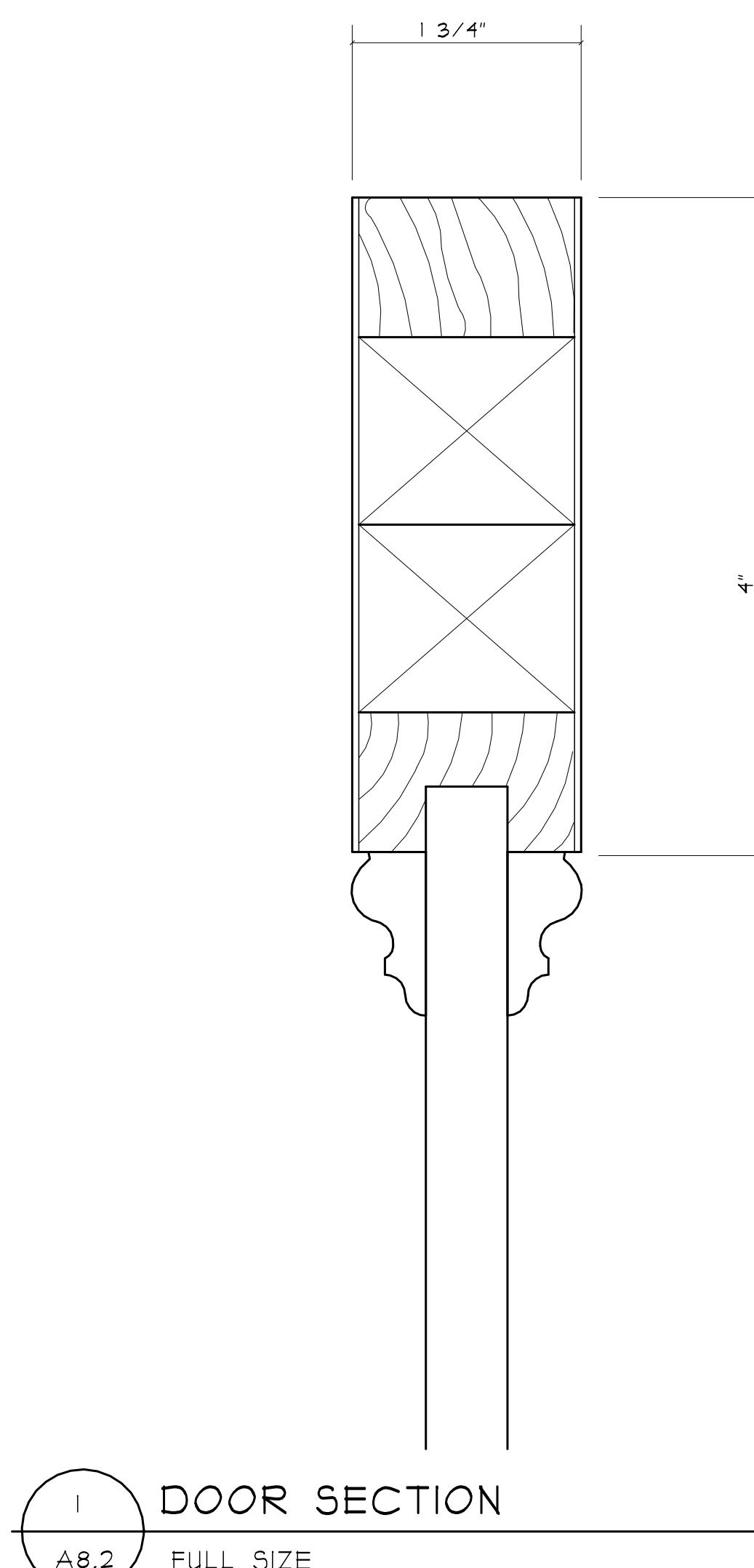


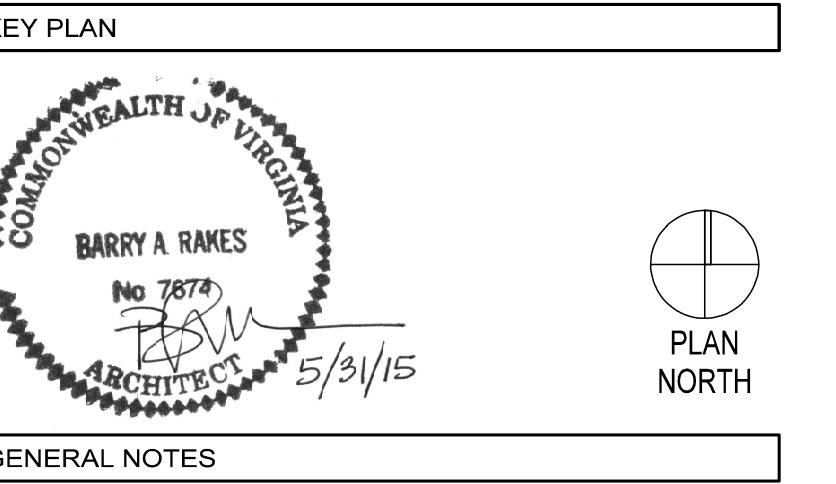
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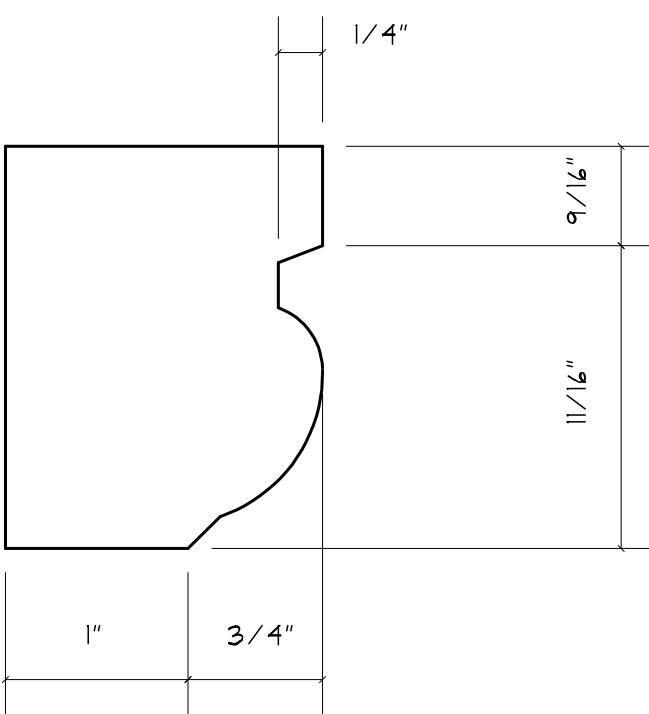
SHEET TITLE DOOR ELEVATIONS

A 8.3



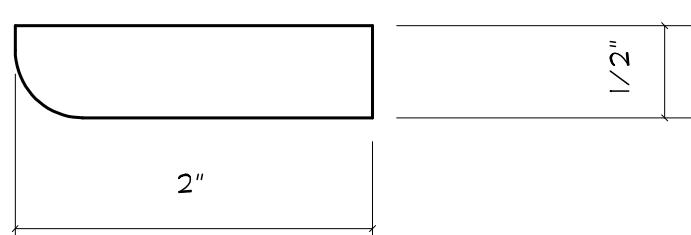


PLAN NORTH

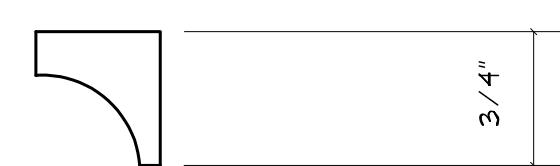


I/A8.3 - EXTERIOR MOLD

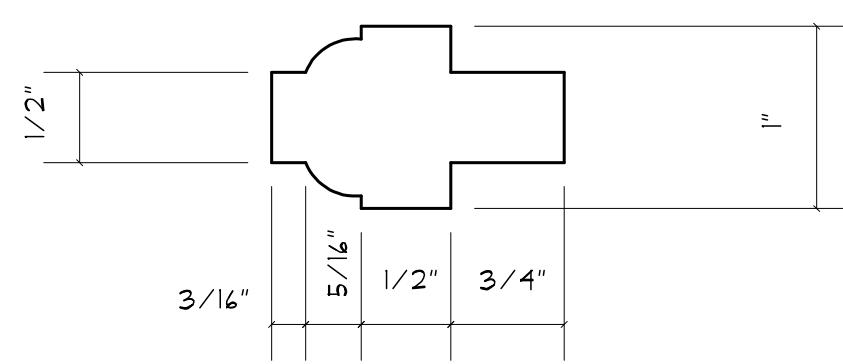
FULL SIZE



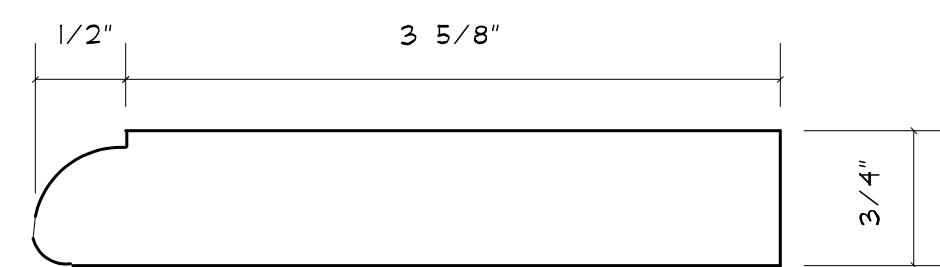
2/A8.3 - INTERIOR WINDOW STOP



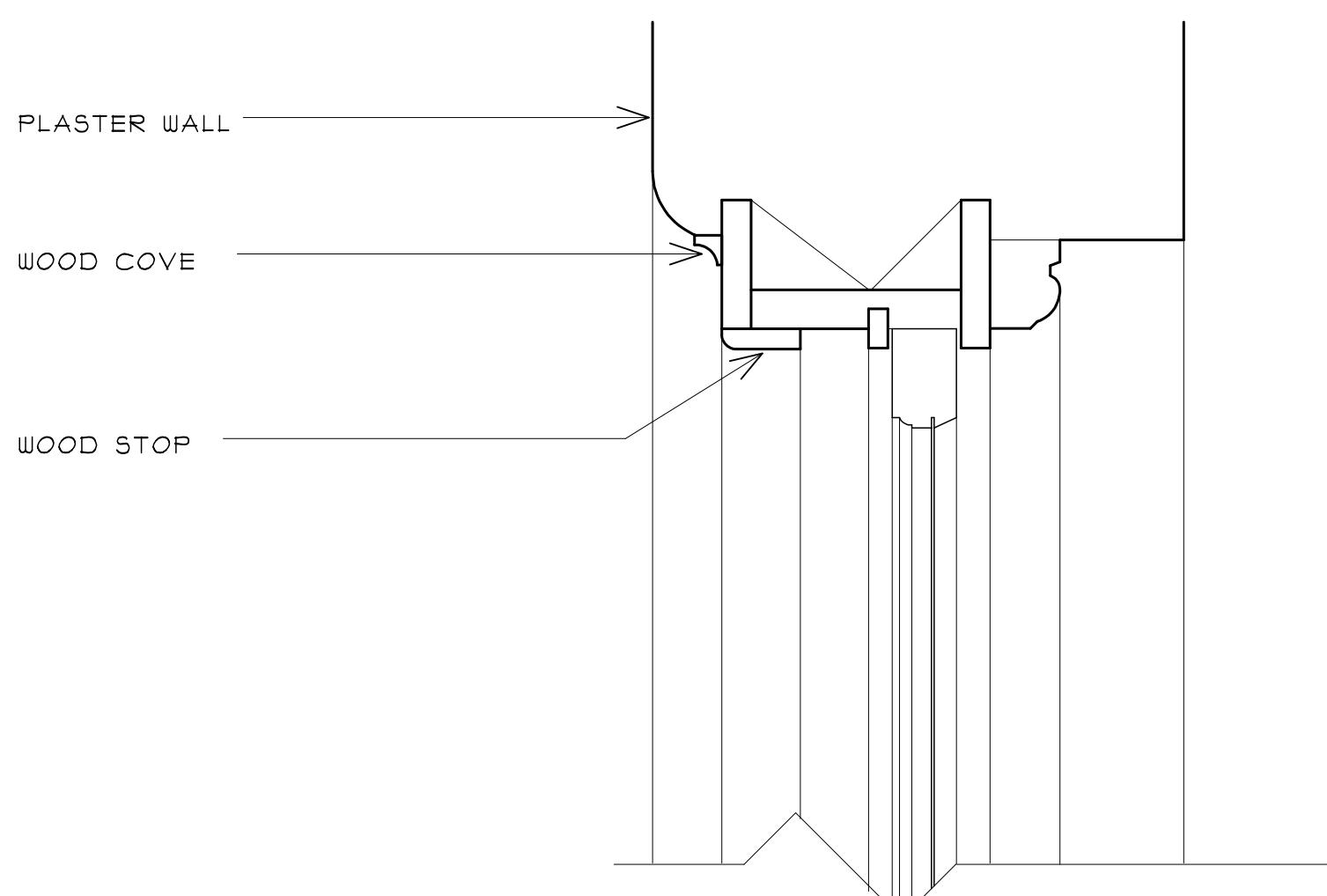
3/A8.3 - INTERIOR WINDOW COVE



4/A8.3 - WINDOW MUNTIN

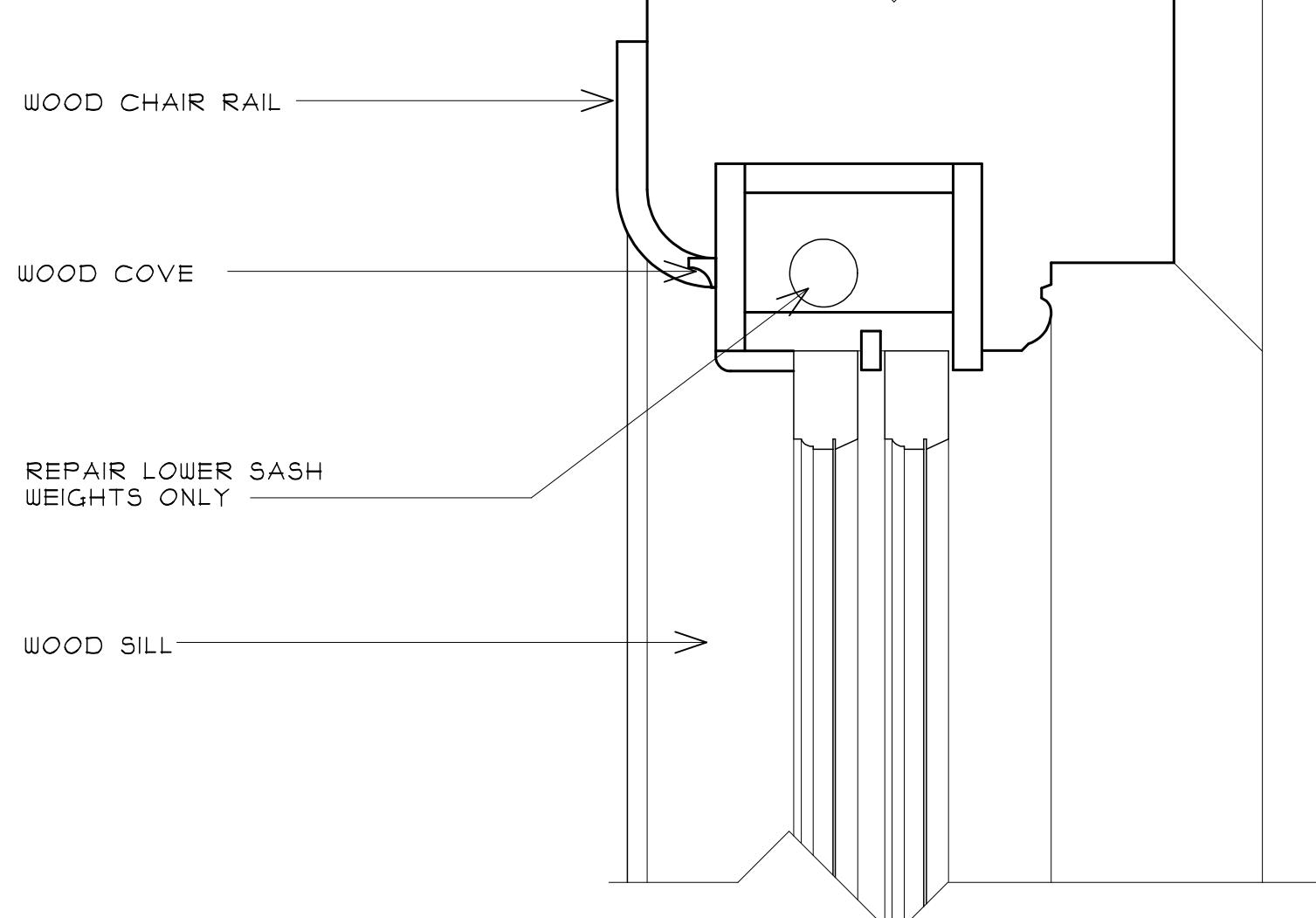


5/A8.3 - INTERIOR WINDOW STOOL

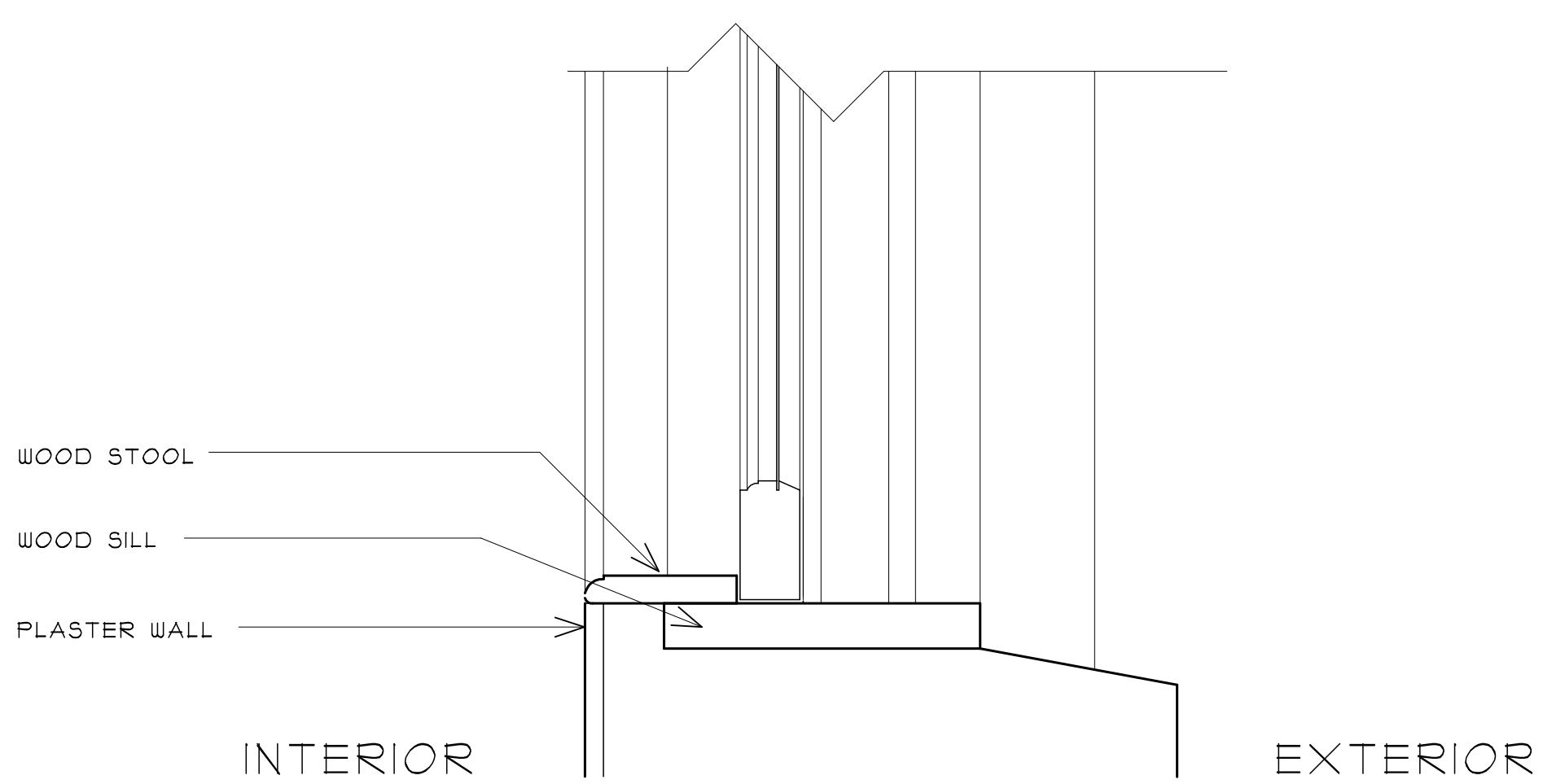


6/A8.3 - WINDOW HEAD

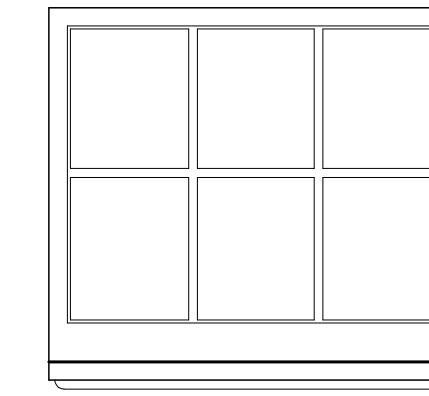
3" = 1'-0"



7/A8.3 - WINDOW JAMB

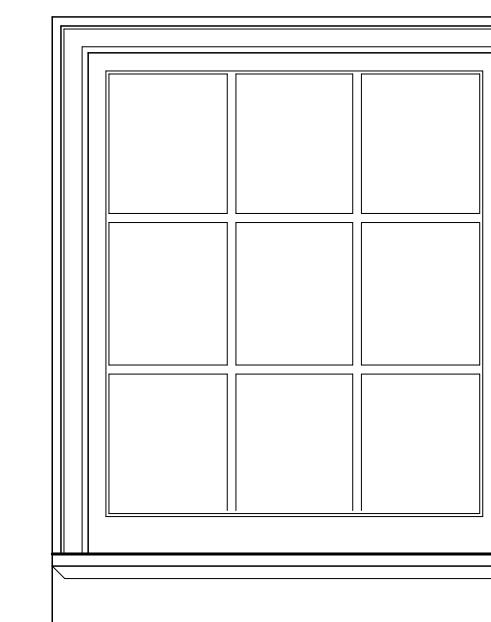


8/A8.3 - WINDOW SILL



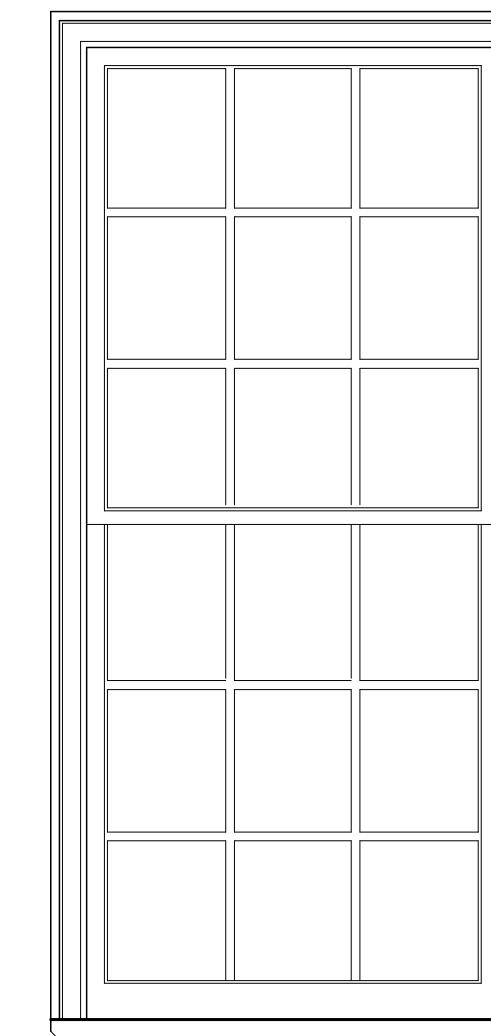
9/A8.3 - DORMER WINDOW ELEVATION

3/4" = 1'-0"



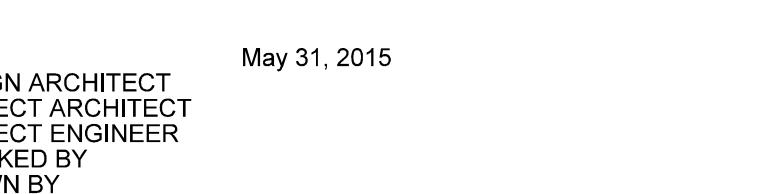
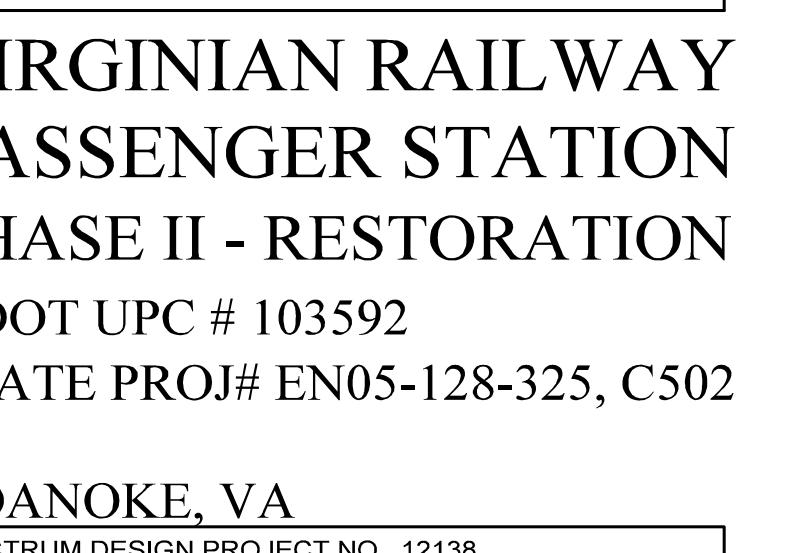
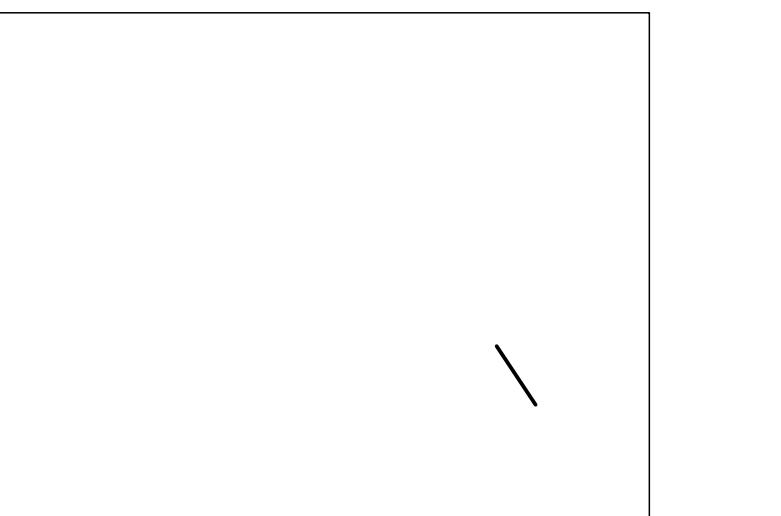
10/A8.3 - WINDOW ELEVATION

3/4" = 1'-0"

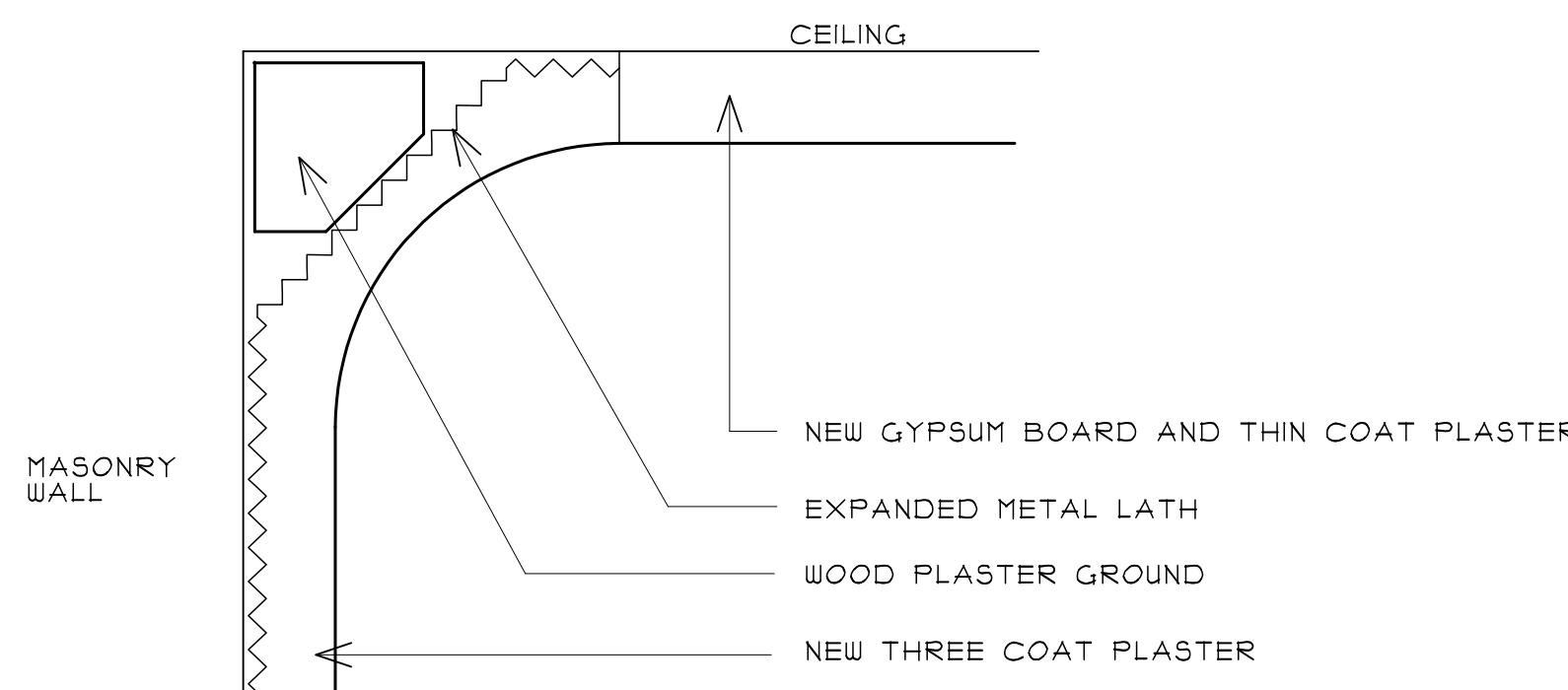
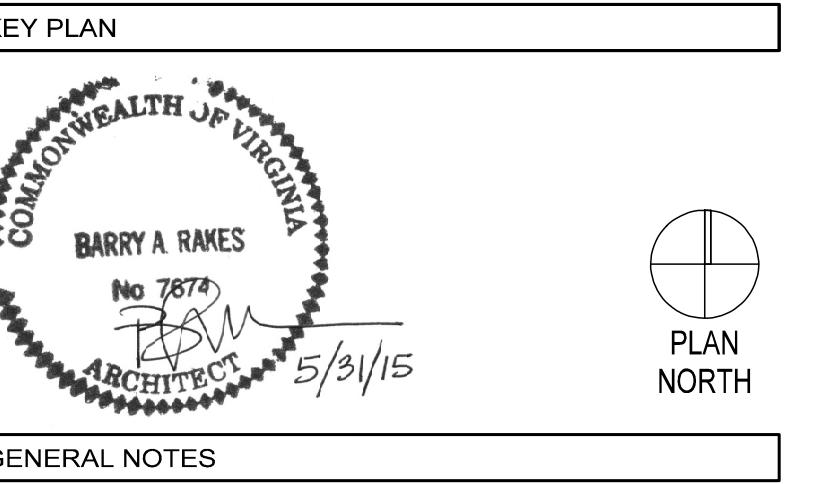


II/A8.3 - WINDOW ELEVATION

3/4" = 1'-0"

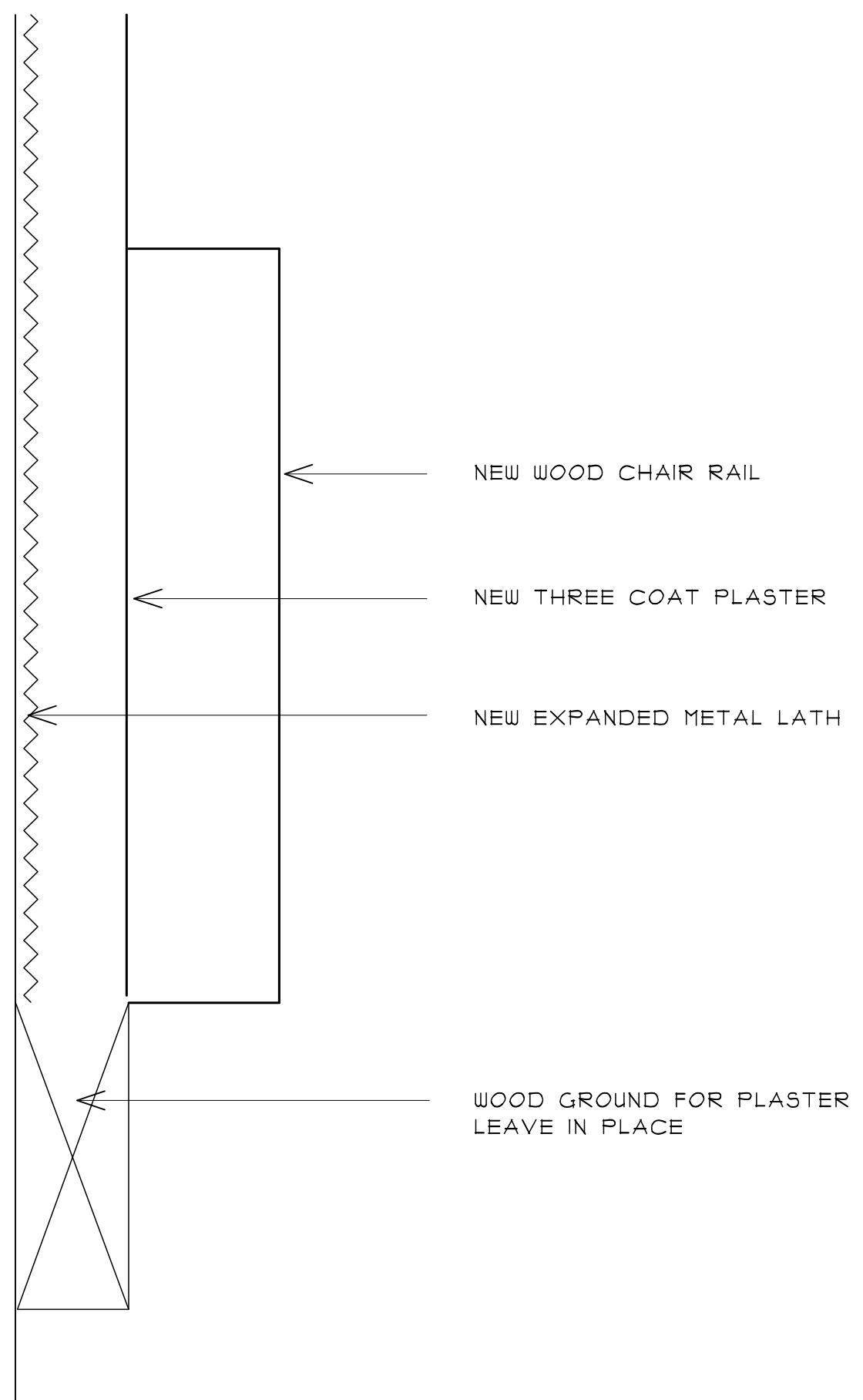
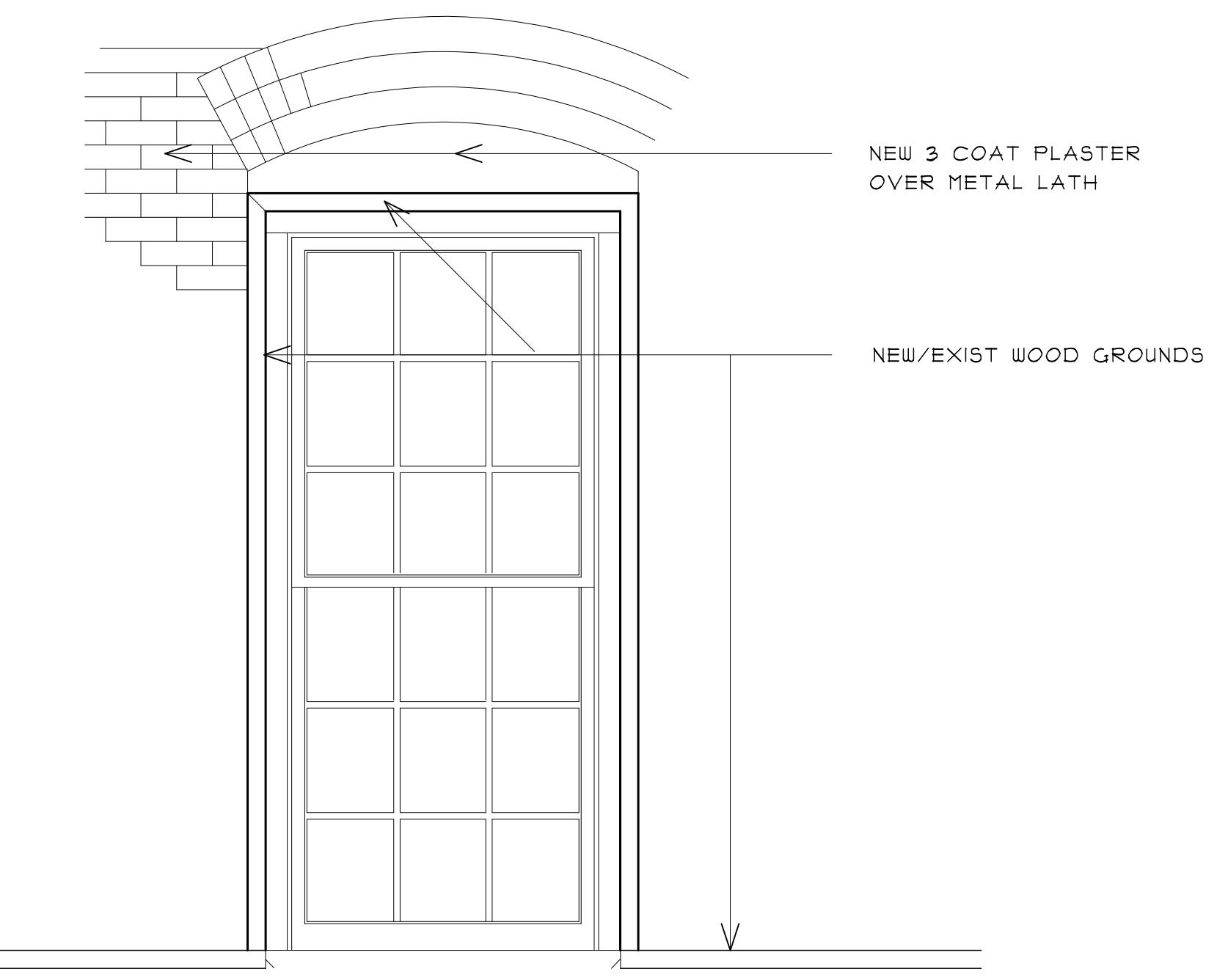
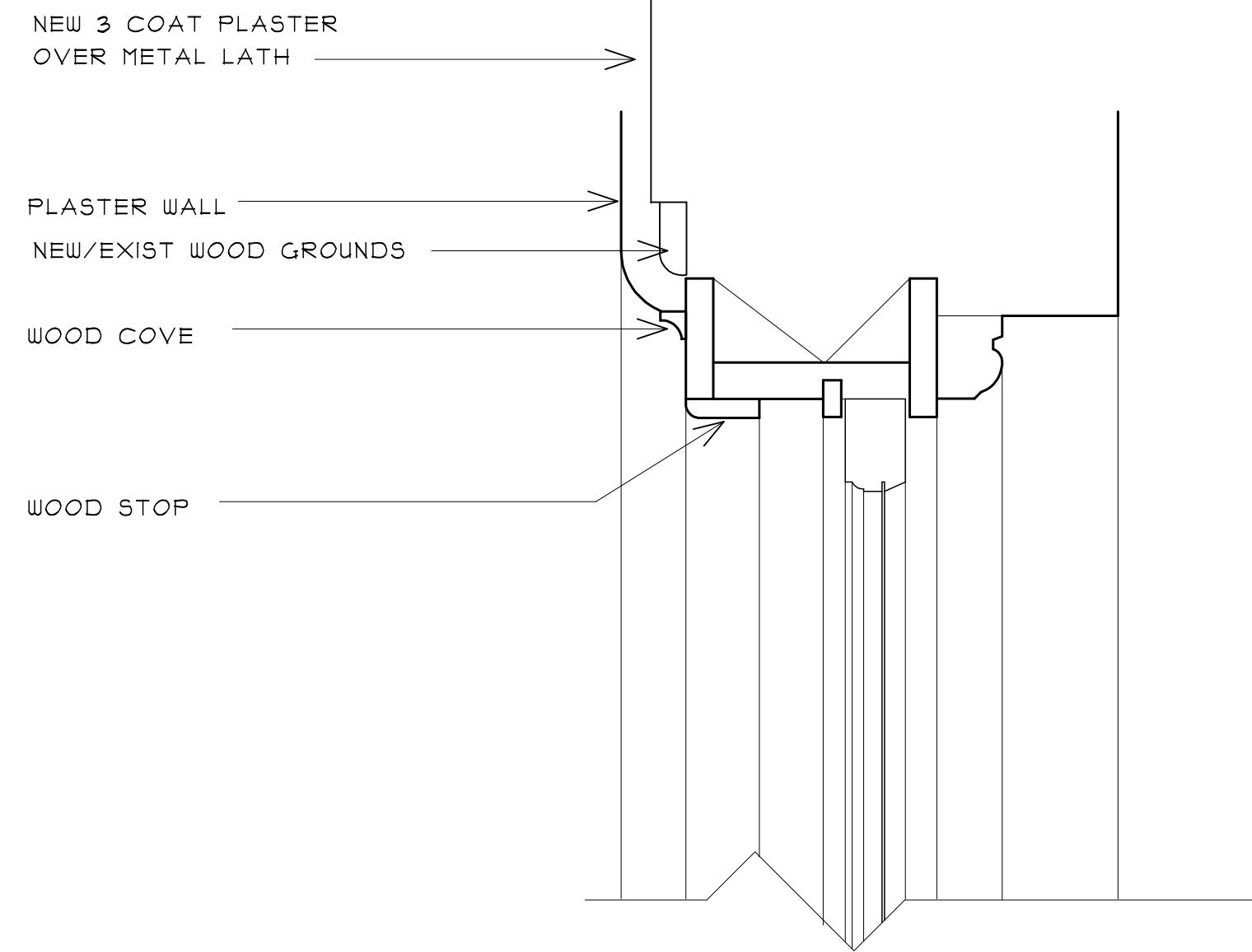


A 8.4



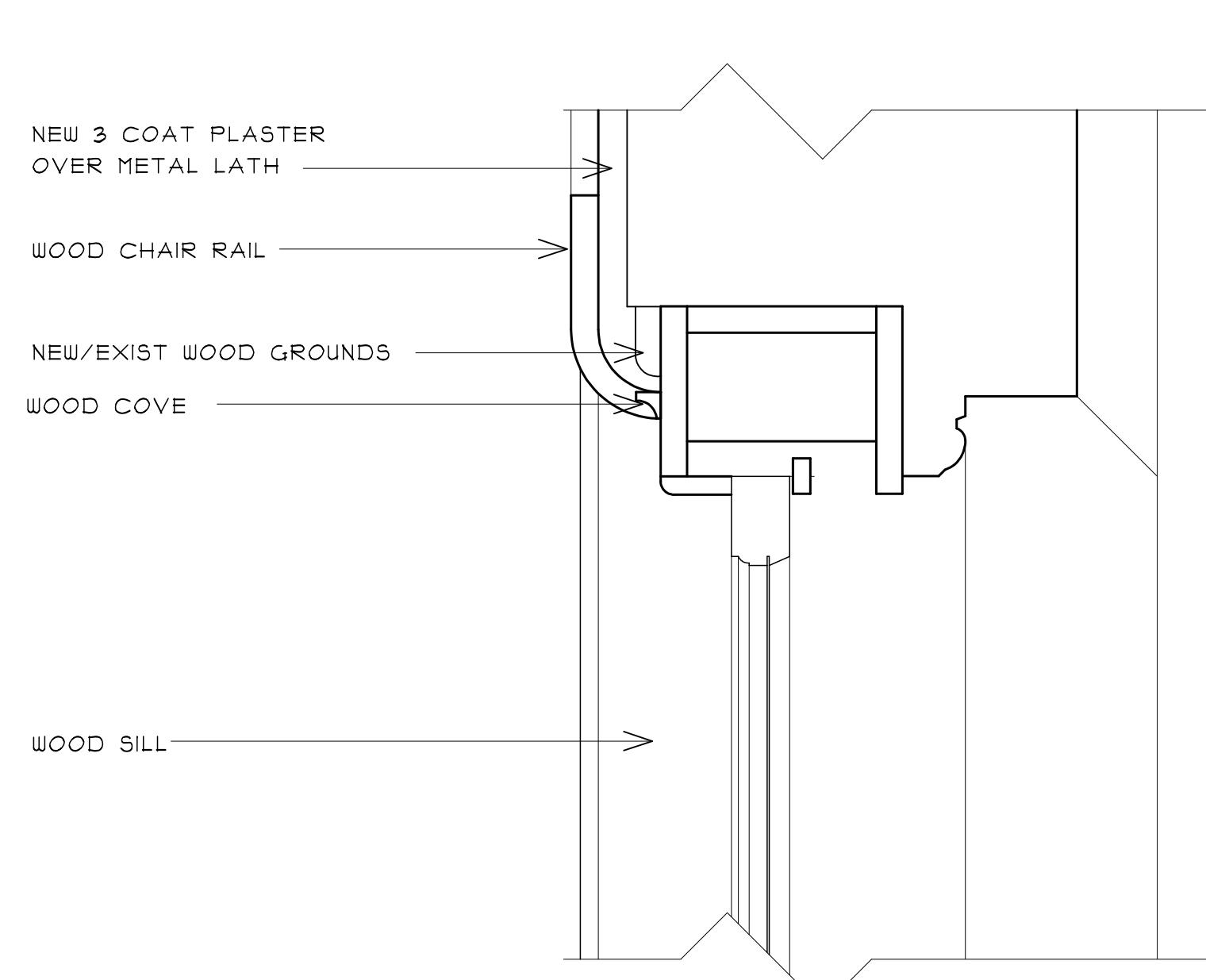
I/A8.5 - PLASTER CEILING DETAIL

NO SCALE



2/A8.5 - PLASTER AT CHAIR RAIL

NO SCALE



4/A8.5 - PLASTER AT WINDOW JAMB

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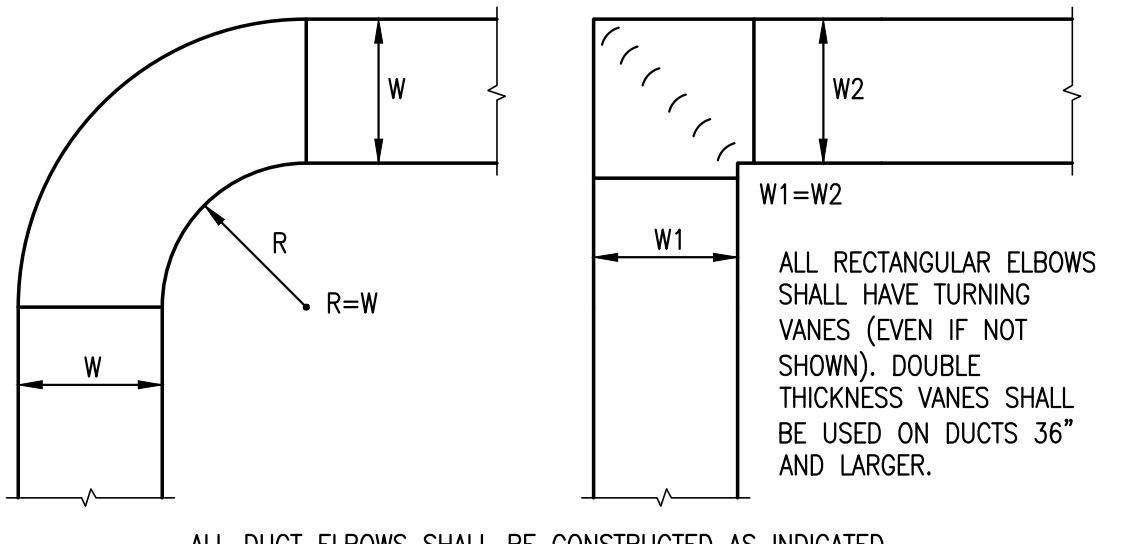
10 CHURCH AVE SE, PLAZA SUITE 1 ROANOKE, VIRGINIA 24011 540.342.6001

VIRGINIAN RAILWAY
PASSENGER STATION
PHASE II - RESTORATION
VDOT UPC # 103592
STATE PROJ# EN05-128-325, C502
ROANOKE, VA
SPECTRUM DESIGN PROJECT NO. 12138

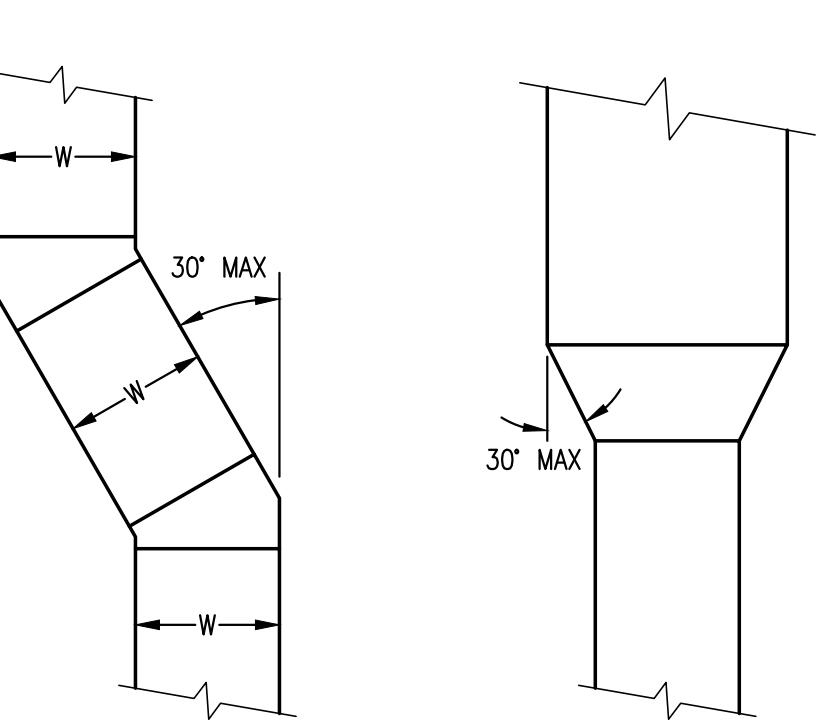
DATE May 31, 2015
DESIGN ARCHITECT
PROJECT ARCHITECT
PROJECT ENGINEER
CHECKED BY
DRAWN BY
REVISIONS NUMBER DATE

SHEET TITLE PLASTER DETAILS

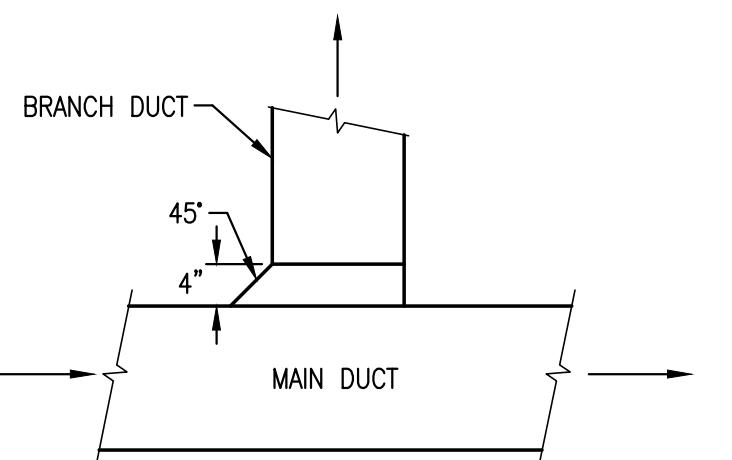
A8.5



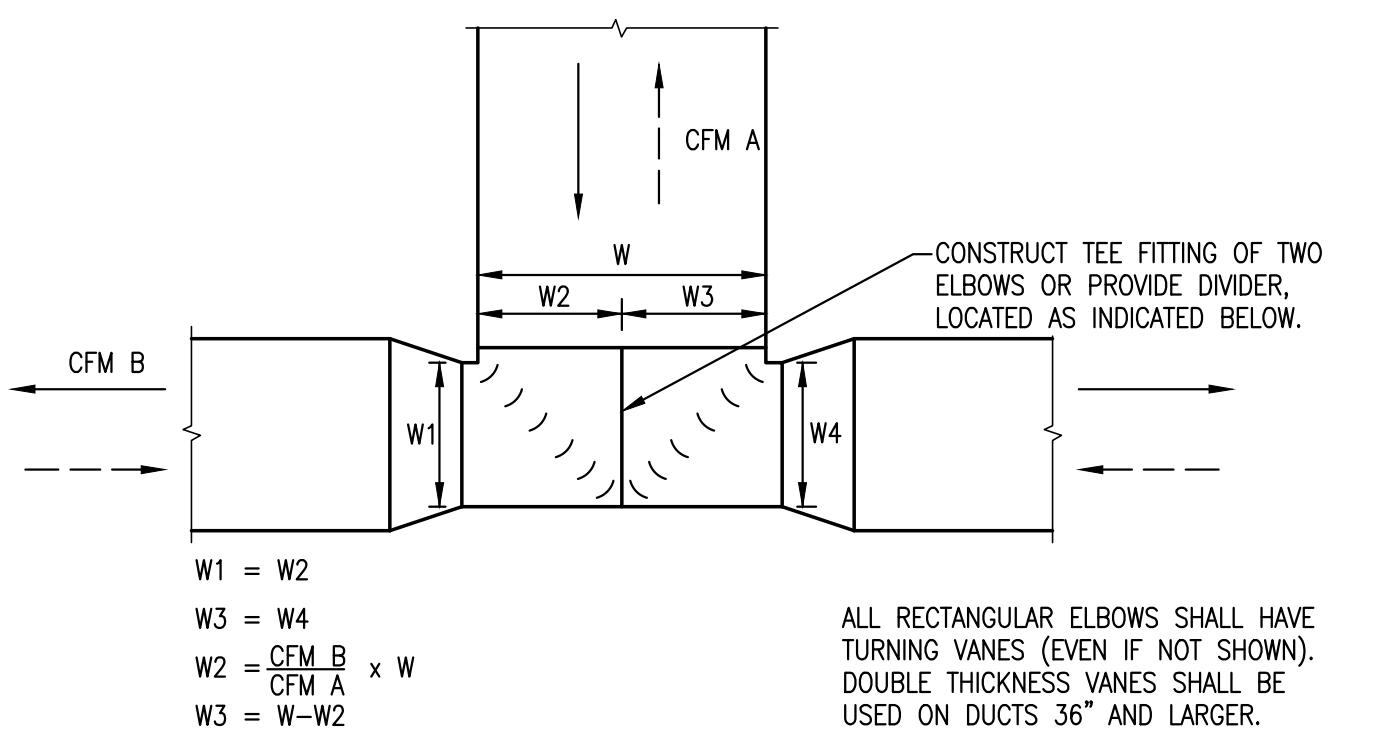
DETAIL - DUCT ELBOWS
NO SCALE



DUCT OFFSETS AND TRANSITIONS SHALL BE CONSTRUCTED AS INDICATED ABOVE. DO NOT USE BACK-TO-BACK ELBOWS FOR OFFSETS.
DETAIL - DUCT OFFSETS AND TRANSITIONS
NO SCALE



DETAIL - BRANCH DUCT CONNECTION
NO SCALE



DETAIL - DUCT TEE FITTING
NO SCALE

AIR HANDLING UNITS & CONDENSING UNITS	
SPECIFICATION SECTIONS 15630, 15670 & 15720	
AIR HANDLING UNIT MARK	AH-1 AH-2
SUPPLY FAN	
SUPPLY AIR CFM	1500 1800
OUTDOOR AIR DESIGN FLOW	315 170
EXTERNAL SP INCH H2O	0.5 0.5
MOTOR HP	0.5 1.0
FAN TYPE	FC FC
FAN DRIVE	DIRECT DIRECT
MODEL NUMBER	ML19GU110P08C ML19GU110P08C
COOLING COIL	
TOTAL COOLING MBH	42.1 58.6
SENSIBLE COOLING MBH	28.8 36.8
ENTERING AIR TEMP, DEG F DBW	80.67 80.67
MODEL NUMBER	CH-23-51-2 CH-23-51-2
GAS HEAT EXCHANGER	
INPUT MBH	110 110
OUTPUT MBH	89 89
ENTERING AIR TEMP, DEG F DB	47 47
CONDENSING UNIT	CU-1 CU-2
MINIMUM EER	11.2 11.2
UNIT VOLTAGE/PHASE	230/1 230/1
MODEL NUMBER	TSA04854 TSA0654

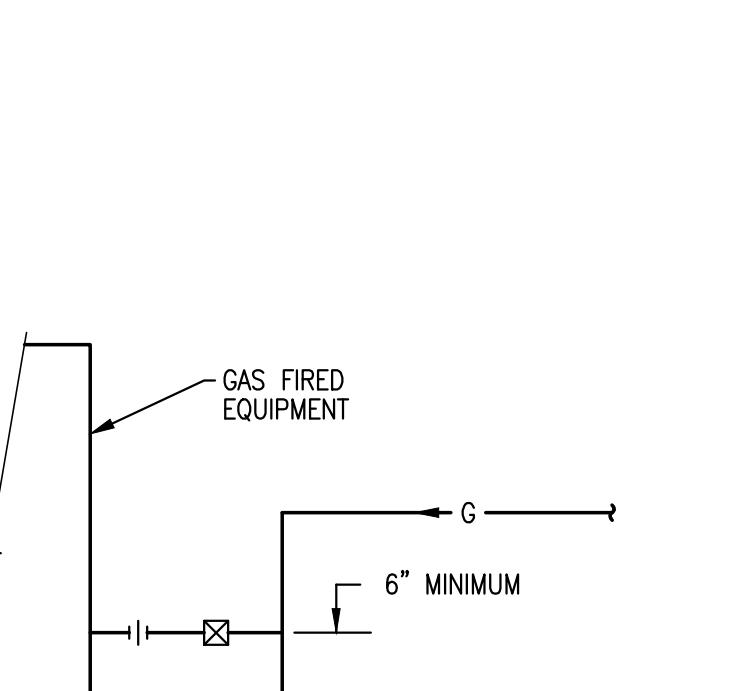
NOTES:
1. MODEL NUMBERS LISTED ARE LENNOX.
2. PROVIDE RACK KIT AND PLEATED MEDIA, 1 INCHES THICK, MERV 8 AS RATED BY ASHRAE 52.
3. CONDENSING UNITS SHALL HAVE ANTI-SHORT CYCLE TIMER, TIME DELAY RELAY AND CONDENSER COIL GUARD.
4. PROVIDE WALL MOUNTED 7 DAY PROGRAMMABLE THERMOSTAT FOR EACH SYSTEM. REFER TO SEQUENCE OF OPERATION.
5. AIR HANDLING UNIT FAN SHALL HAVE INTERNAL SPRING VIBRATION ISOLATORS.
6. UNITS INSTALLED ABOVE CEILING. PROVIDE AUXILIARY DRAIN PAN BENEATH UNIT. AUXILIARY DRAIN PAN SHALL HAVE A MINIMUM DEPTH OF 1.5 INCHES. SHALL NOT BE LESS THAN 3 INCHES LARGER THAN THE UNIT AND SHALL BE CONTINUED IN GALVANIZED STEEL OR ALUMINUM. WATER SENSOR SHALL SHUT OFF THE UNIT IF WATER IS DETECTED.
7. PROVIDE CATEGORY I VENTING SYSTEM.

DIFUSERS, REGISTERS AND GRILLES			
SPECIFICATIONS SECTION 15850			
MARK	SERVICE	DESCRIPTION	MODEL
CD-1	SUPPLY	SQUARE 3 CONE CEILING DIFFUSER, ROUND NECK, FIXED	SCD
CG-1	RETURN	PERFORATED FACE, ROUND NECK, FLUSH FACE, SURFACE MOUNT	PDOR
CG-2	RETURN OR EXHAUST	1/4 INCH SQUARE GRID, ALUMINUM WITH ALUMINUM OPPOSED BLADE DAMPER, SURFACE MOUNT	800AL

NOTES:
1. MODEL NUMBERS LISTED ARE PRICE INDUSTRIES.
2. CEILING AIR OUTLET'S SHALL HAVE STANDARD 4 WAY AIR PATTERN (2 WAY AIR PATTERN FOR SLOT DIFFUSERS) UNLESS INDICATED OTHERWISE ON FLOOR PLAN.
3. DIFFUSERS, REGISTERS AND GRILLES SHALL HAVE THE FOLLOWING FINISHES:
a. DIFFUSERS AND GRILLES INSTALLED IN CEILINGS OR HORIZONTAL SURFACES, WHETHER GYPSUMBOARD OR LAY-IN-T-BAR, SHALL HAVE STANDARD WHITE FINISH.

FANS							
SPECIFICATIONS SECTION 15830							
MARK	CFM	SP. INCH WG	MOTOR W	TYPE	VOLTAGE /PHASE	MAX SONES	MODEL NUMBER
F-1	75	0.125	51	CEILING	115/1	0.8	SPA-470
F-2	315	0.5	135	CEILING	115/1	5.0	SPA-390

NOTES:
1. MODEL NUMBERS LISTED ARE GREENHECK.
2. PROVIDE INTERNAL INSULATION, PLUG DISCONNECT AND INTEGRAL BACKDRAFT DAMPER. PROVIDE MODEL WC WALL CAP FOR FAN F-1 AND F-2.

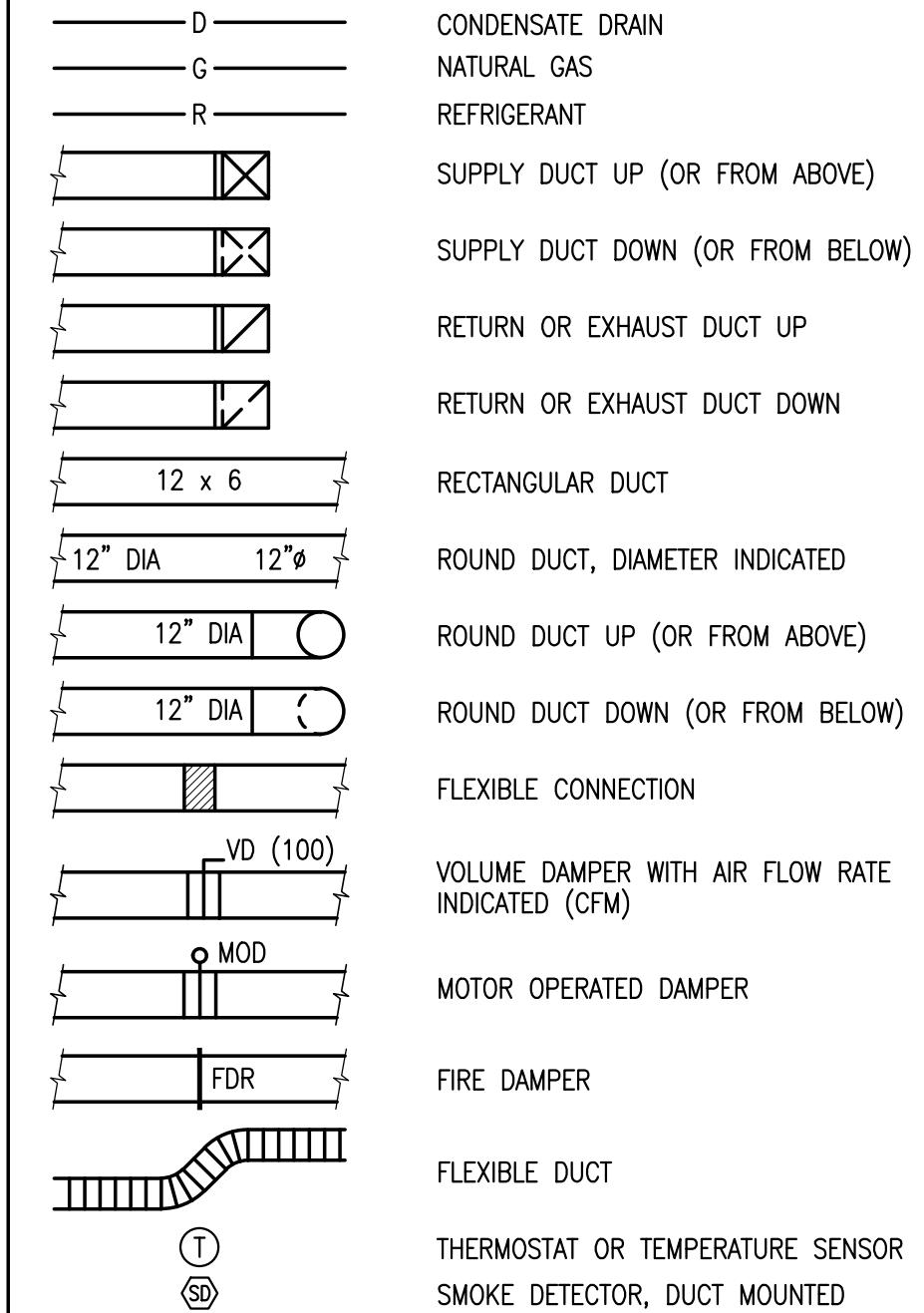


DETAIL - GAS CONNECTION
NO SCALE

SEQUENCE OF OPERATION

- GENERAL
 - WHERE SETPOINTS ARE INDICATED, THEY SHALL BE USED AS A GUIDE AND ACTUAL SETPOINTS SHALL BE ADJUSTED AS REQUIRED TO SUIT JOB CONDITIONS. THE FOLLOWING INDOOR SETPOINTS ARE SUGGESTED:
 - OCCUPIED COOLING 75F
 - OCCUPIED HEATING 70F
 - UNOCCUPIED COOLING 85F
 - UNOCCUPIED HEATING 65F
- SEQUENCES ARE GENERALLY DESCRIBED FOR A RISE IN ROOM TEMPERATURE. REVERSE SEQUENCE SHALL OCCUR ON A FALL IN ROOM TEMPERATURE.
- AIR HANDLING UNIT (FURNACE AND COOLING COIL) (AH-1) AND CONDENSING UNIT (CU-1)
 - OCCUPIED MODE
 - SUPPLY AIR FAN SHALL OPERATE CONTINUOUSLY.
 - ON A RISE IN SPACE TEMPERATURE, THE UNIT CONTROLLER SHALL DE-ENERGIZE THE GAS-FIRED HEATER. ON A CONTINUED RISE IN SPACE TEMPERATURE, THE UNIT CONTROLLER SHALL ENERGIZE CONDENSING UNIT CU-1 TO PROVIDE MECHANICAL COOLING.
 - UNOCCUPIED MODE
 - UNIT CONTROLLER SHALL OPERATE THE GAS-FIRED HEATER AND CONDENSING UNIT AS DESCRIBED ABOVE TO MAINTAIN A REDUCED HEATING SETPOINT AND AN INCREASED COOLING SETPOINT.
 - OCCUPIED/UNOCCUPIED MODE
 - SYSTEM SHALL BE PLACED IN OCCUPIED OR UNOCCUPIED MODE BY THE 7 DAY PROGRAMMABLE THERMOSTAT IN ACCORDANCE WITH OWNER SPECIFIED SCHEDULE.
 - THE SYSTEM MAY BE TEMPORARILY PLACED IN OCCUPIED MODE BY MANUAL OVERRIDE FUNCTION OF THE THERMOSTAT.
- AIR HANDLING UNIT (FURNACE AND COOLING COIL) (AH-2) AND CONDENSING UNIT (CU-2)
 - OCCUPIED MODE
 - SUPPLY AIR FAN SHALL OPERATE CONTINUOUSLY.
 - THE OUTDOOR AIR DAMPER SHALL OPEN TO MINIMUM OPEN POSITION.
 - ON A RISE IN SPACE TEMPERATURE, THE UNIT CONTROLLER SHALL DE-ENERGIZE THE GAS-FIRED HEATER.
 - ON A FURTHER RISE IN SPACE TEMPERATURE, WHEN OUTDOOR AIR ENTHALPY IS LESS THAN RETURN AIR ENTHALPY, THE ECONOMIZER SHALL MODULATE OPEN TO PROVIDE COOLING WITH UP TO 100% OUTDOOR AIR.
 - ON A FURTHER RISE IN SPACE TEMPERATURE, THE MECHANICAL COOLING SHALL BE ENERGIZED.
 - UNOCCUPIED MODE
 - THE OUTDOOR AIR DAMPER SHALL CLOSE.
 - THE THERMOSTAT SHALL CYCLE THE AIR HANDLING UNIT FAN AND CONTROL HEATING AND COOLING TO MAINTAIN A REDUCED HEATING SETPOINT AND AN INCREASED COOLING SETPOINT.
 - OCCUPIED/UNOCCUPIED MODE
 - SYSTEM SHALL BE PLACED IN OCCUPIED OR UNOCCUPIED MODE BY THE 7 DAY PROGRAMMABLE THERMOSTAT IN ACCORDANCE WITH OWNER SPECIFIED SCHEDULE.
 - THE SYSTEM MAY BE TEMPORARILY PLACED IN OCCUPIED MODE BY MANUAL OVERRIDE FUNCTION OF THE THERMOSTAT.
- EXHAUST FANS F-1
 - FANS SHALL OPERATE IN CONJUNCTION WITH BATHROOM LIGHT ON/OFF SWITCH.
- EXHAUST FANS F-2
 - FANS SHALL OPERATE CONTINUOUSLY WHEN AIR HANDLING UNITS ARE IN OCCUPIED MODE.
 - FANS SHALL BE STOPPED WHEN AIR HANDLING UNITS ARE IN UNOCCUPIED MODE.

LEGEND

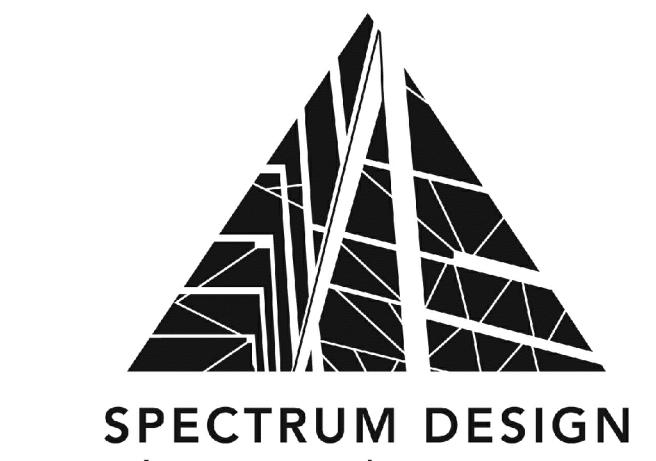


KEY PLAN

GENERAL NOTES

Landscape Architecture
Architecture
Community Planning
Historic Preservation
120 W. Campbell Ave. SW
Roanoke, VA 24011
tel: 540-342-5263 fax: 540-345-5625
HILL STUDIO

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(540) 473-1567



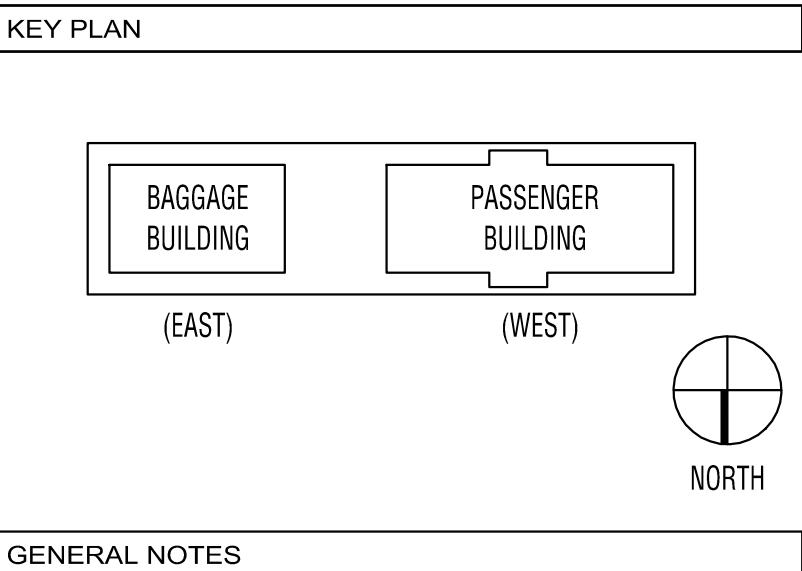
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VIRGINIAN RAILWAY PASSENGER STATION PHASE II - RESTORATION
VDOT UPC # 103592
STATE PROJ# EN05-128-325, C502

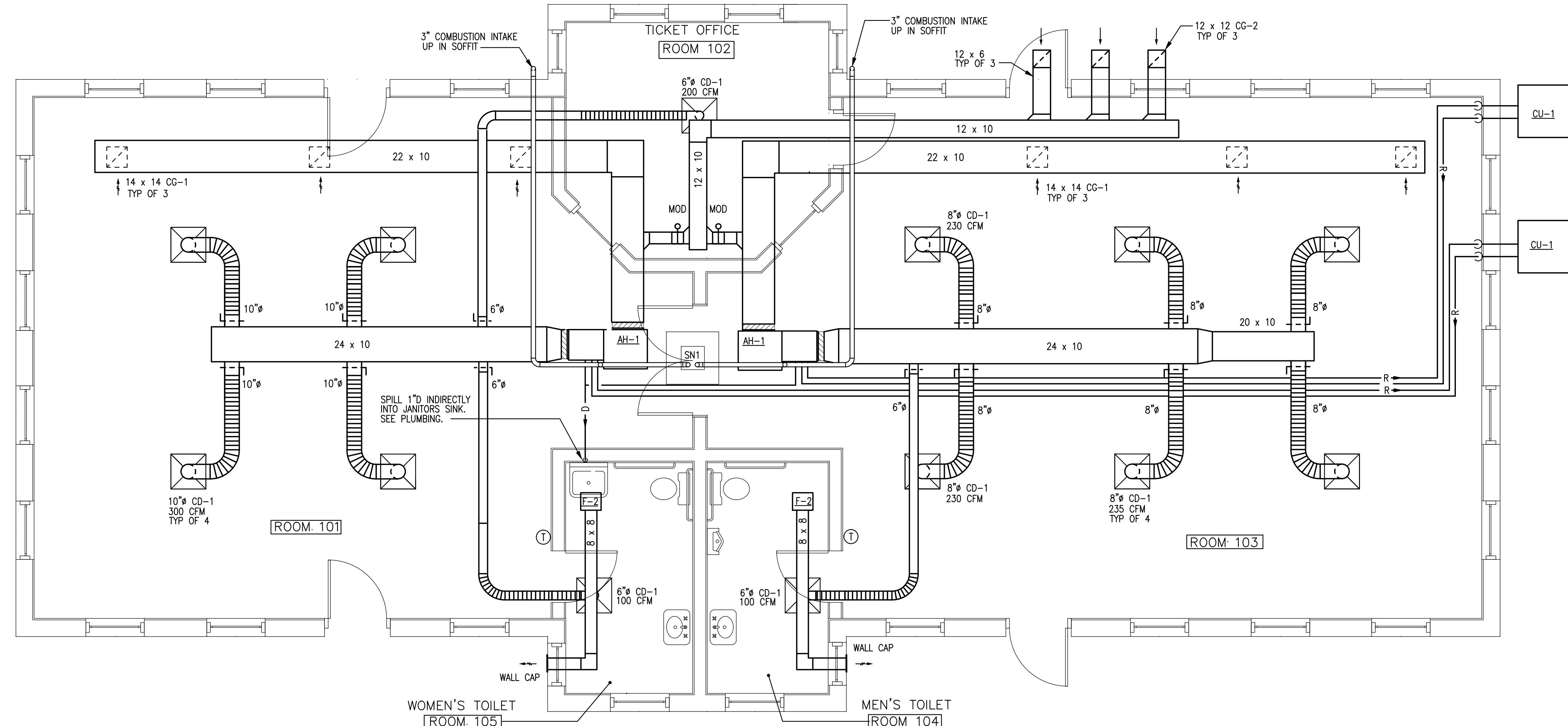
ROANOKE, VA
SPECTRUM DESIGN PROJECT NO. 12138



MECHANICAL LEGEND, SCHEDULES, DETAILS, AND CONTROLS
M001



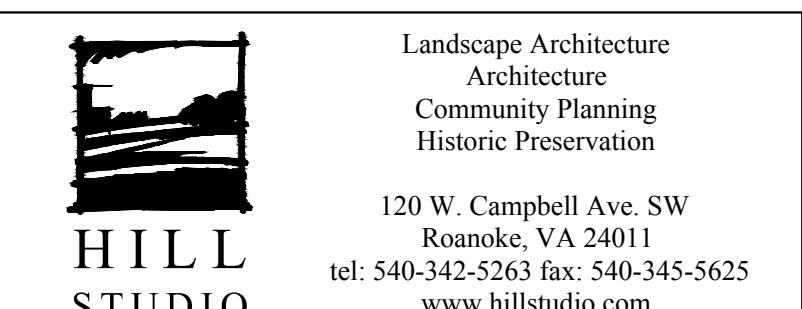
GENERAL NOTES



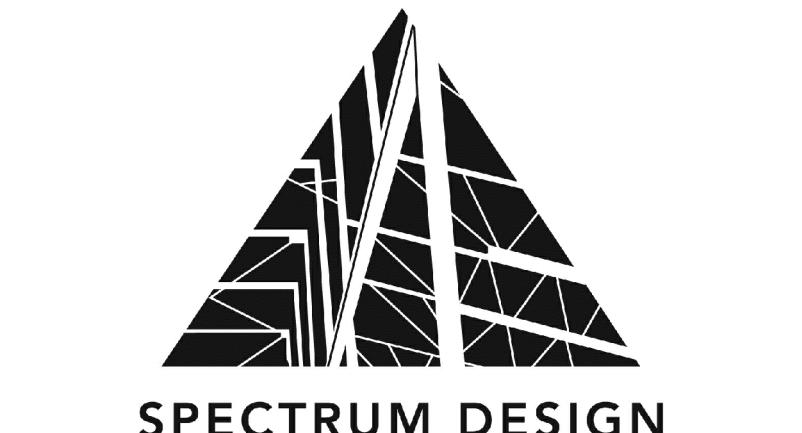
PASSENGER BUILDING MECHANICAL PLAN

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

SN1 3"Ø VENT UP THROUGH EXISTING CHIMNEY. TERMINATE MIN 12" ABOVE CHIMNEY TOP PLATE. PROVIDE SHEET METAL TOP PLATE.
COMMONWEALTH OF VIRGINIA
DAVID PAUL FERON
Lic. No. 020473
5/31/15

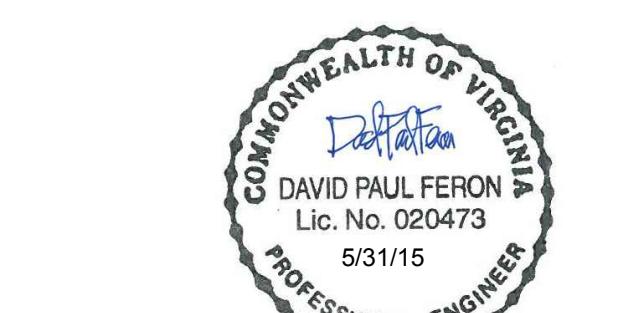


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VIRGINIAN RAILWAY
PASSENGER STATION
PHASE II - RESTORATION
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STATE PROJ# EN05-128-325, C502

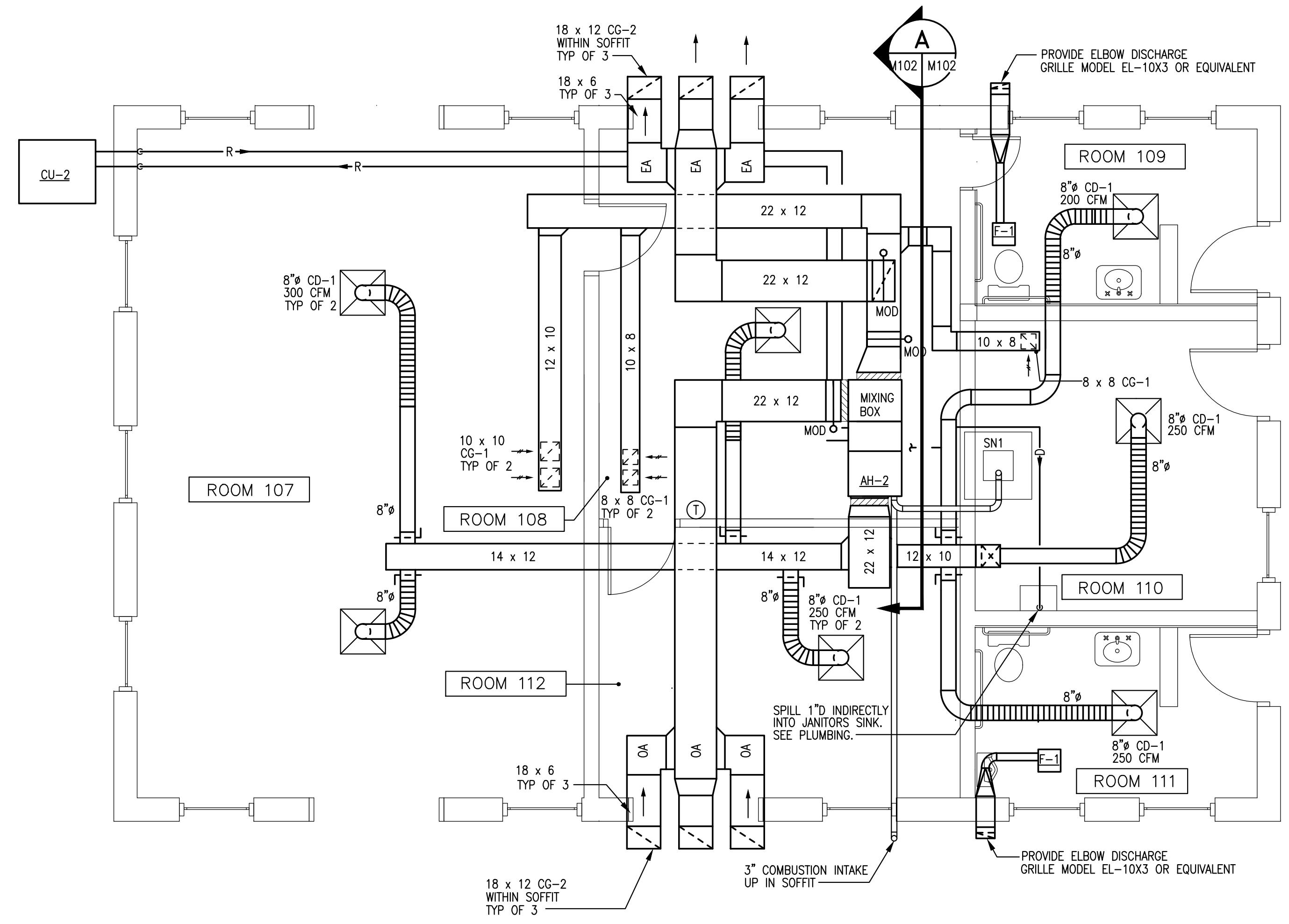
ROANOKE, VA
SPECTRUM DESIGN PROJECT NO. 12138



DATE: 31 MAY 2015
DESIGN ARCHITECT: BAR
PROJECT ARCHITECT: BAR
PROJECT ENGINEER: JMR
CHECKED BY: DPF
DRAWN BY: JMR
REVISIONS: NUMBER DATE

SHEET TITLE: MECHANICAL FLOOR PLANS

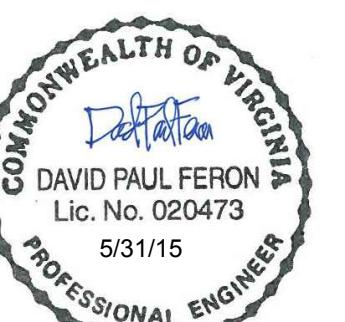
M101



BAGGAGE AND EXPRESS BUILDING MECHANICAL PLAN

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

SN1 3"Ø VENT UP THROUGH EXISTING CHIMNEY. TERMINATE MIN 12" ABOVE CHIMNEY TOP PLATE. PROVIDE SHEET METAL TOP PLATE.

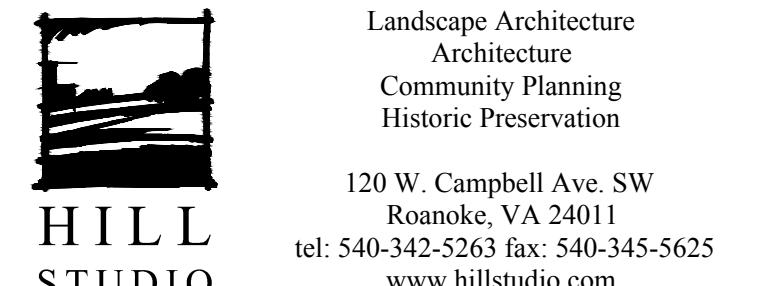
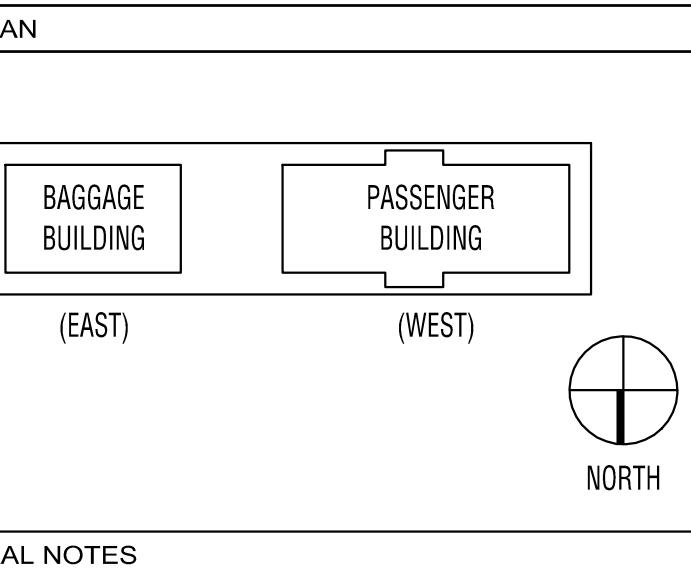


DATE	31 MAY 2015	
DESIGN ARCHITECT	BAR	
PROJECT ARCHITECT	BAR	
PROJECT ENGINEER	JMR	
CHECKED BY	DPF	
DRAWN BY	JMR	
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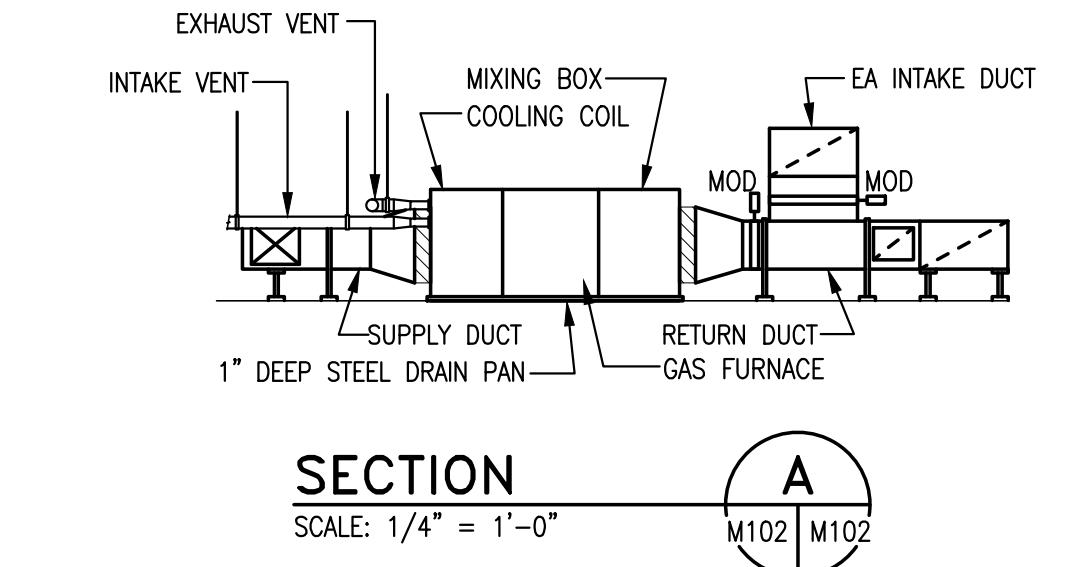
SHEET TITLE

MECHANICAL FLOOR PLANS

M102



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SECTION A

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VIRGINIAN RAILWAY PASSENGER STATION PHASE II - RESTORATION

**VDOT UPC # 103592
STATE PROJ# EN05-128-325, C502**

ROANOKE, VA

SPECTRUM DESIGN PROJECT NO. 12138

PLUMBING SPECIFICATIONS

1. GENERAL PROVISIONS
 - A. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE INCLUDING ALL REFERENCED CODES AND STANDARDS AND IN ACCORDANCE WITH MANDATES OF THE LOCAL BUILDING OFFICIALS AND/OR LOCAL AUTHORITY HAVING JURISDICTION.
 - B. THE GENERAL ARRANGEMENT AND LOCATIONS OF PIPING, FIXTURES AND EQUIPMENT ARE INDICATED BY THE DRAWINGS AND SHALL BE INSTALLED IN ACCORDANCE THEREWITH; WITH THE EXCEPTION OF SUCH CHANGES AS MAY BE REQUIRED ON ACCOUNT OF OTHER TRADES, CONTRACTOR SHALL COORDINATE WORK WITH INSTALLATION OF OTHER SUBCONTRACTORS.
 - C. PLUMBING WORK SHALL BE COORDINATED WITH THE CONTRACTOR AS TO SCHEDULING, DIMENSIONING AND LOCATION OF EQUIPMENT.
 - D. MAJOR ITEMS ARE SHOWN ON THE PROJECT PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INCIDENTAL ITEMS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.
 - E. ALL PIPING SYSTEMS SHALL EXTEND 5 FEET BEYOND THE BUILDING LINE UNLESS INDICATED OTHERWISE. REFER TO CIVIL DRAWINGS FOR PIPING OUTSIDE THIS AREA.
 - F. TRADE NAMES AND CATALOG NUMBERS SHALL BE INTERPRETED AS ESTABLISHING A GENERAL DESIGN AND STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. UNLESS STATED OTHERWISE, THE CONTRACTOR MAY USE ANY ARTICLE WHICH, IN HIS JUDGEMENT, AND WITH WRITTEN COMMENT FROM THE ARCHITECT/ENGINEER INDICATING NO OBJECTION, IS EQUAL OR SUPERIOR TO THAT SPECIFIED. DRAWINGS SHOWING CHANGES OR REVISIONS REQUIRED BY THE SUBSTITUTION FOR SPECIFIED ITEMS SHALL BE SUBMITTED WITH THE SHOP DRAWING DATA, AND THE COSTS OF ALL SUCH CHANGES SHALL BE BORNE BY THE CONTRACTOR.
 - G. SIMILAR ITEMS SHALL BE PROVIDED BY A SINGLE MANUFACTURER.
 - H. ALL REQUIRED WALL OR FLOOR OPENINGS SHALL BE COORDINATED WITH THE CONTRACTOR.
 - I. DO NOT INSTALL PVC PIPING OR ANY COMBUSTIBLE MATERIAL IN ANY AIR PLENUM.
 - J. ALL EQUIPMENT SHALL BE WIPE CLEAN, REMOVING ALL TRACES OF OIL, DIRT, OR PAINT SPOTS.
 - K. PROVIDE SUPPORTS TO RIGIDLY ATTACH ALL EQUIPMENT, APPURTENANCES AND PIPE AS REQUIRED FOR SUPPORT. PRIOR TO INSTALLATION OF HANGERS AND INSERTS, THE CONTRACTOR SHALL COORDINATE LOCATIONS AND REQUIREMENTS TO MINIMIZE CONFLICTS WITH OTHER BUILDING SYSTEMS. INSTALLATION OF PIPE HANGERS AND SUPPORTS SHALL BE IN STRICT ACCORDANCE WITH MSS SP-58, 69 AND 89.
 - L. CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT INDICATED TO BE FURNISHED BY OTHERS.
 - M. SIZES AND LOCATIONS FOR EXISTING PIPING ARE SHOWN FOR REFERENCE ONLY AND SHALL BE VERIFIED BY FIELD MEASUREMENTS WHEN EXACT SIZE AND LOCATION IS REQUIRED.
2. SUBMISSION OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND PROJECT INFORMATION
 - A. SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS:
 - (1) PIPE MATERIALS & IDENTIFICATION
 - (2) VALVES
 - (3) ALL EQUIPMENT/FIXTURES CONTAINED WITHIN THE PLUMBING EQUIPMENT SCHEDULE ON SHEET P101.
 - B. IDENTIFY ALL PLUMBING SHOP DRAWINGS, PRODUCT DATA AND SAMPLES WITH THE NAME OF THE PROJECT. CLEARLY MARK THE SPECIFIC ITEMS INTENDED FOR USE. SUBMIT ALL RELATED ITEMS AT ONE TIME.
 - C. PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT, SUBMIT THE FOLLOWING INFORMATION FOR REVIEW AND APPROVAL.
 - (1) OPERATING AND MAINTENANCE INSTRUCTIONS.
 - (2) "AS BUILT" DRAWINGS.
 - D. GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AND CONTRACTOR SHALL MAKE GOOD, WITHOUT ADDITIONAL COST TO THE OWNER, ANY DEFECTS WHICH MAY APPEAR WITHIN THAT PERIOD. MANUFACTURER'S WARRANTIES EXTINGUISHING BEYOND ONE YEAR SHALL BE PROCESSED AND TURNED OVER TO THE OWNER.
 - E. "AS BUILT" DRAWINGS: CONTRACTOR SHALL KEEP AN ACCURATE RECORD OF THE LOCATION OF ALL CONCEALED PIPING, VALVES, CONTROLS, ETC., BOTH INTERIOR AND EXTERIOR. ON COMPLETION OF THE WORK, ONE PRINT EACH OF THE CONTRACT DRAWINGS WHICH ARE APPLICABLE SHALL BE NEATLY AND CLEARLY MARKED IN COLOR TO SHOW ALL VARIATIONS BETWEEN THE WORK ACTUALLY PROVIDED AND THAT INDICATED ON THE CONTRACT DRAWINGS.
 - F. OPERATING AND MAINTENANCE MANUALS
 - A. GENERAL: PRIOR TO COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE TWO HARDBACKED LOOSELEAF RING TYPE BINDERS, IDENTIFIED WITH THE NAME OF THE PROJECT. CONTRACTOR SHALL DELIVER THESE BINDERS TO THE ENGINEER FOR REVIEW AND TRANSMISSION TO THE OWNER.
 - B. THE FOLLOWING ITEMS AND OTHER ADDITIONAL PERTINENT DATA FOR EACH ITEM OF EQUIPMENT SHALL BE INCLUDED:
 - (1) NAME OF MANUFACTURER.
 - (2) NAME, ADDRESS AND TELEPHONE NUMBER OF NEAREST MANUFACTURER'S REPRESENTATIVE.
 - (3) COPY OF LATEST APPROVED SHOP DRAWING.
 - (4) MANUFACTURER'S OPERATING AND MAINTENANCE MANUAL

- A. INCLUDING LUBRICATION DATA.
 - (5) PARTS NUMBERS FOR ALL REPLACEABLE ITEMS.
 - (6) SERIAL NUMBERS OF ALL PRINCIPAL ITEMS OF EQUIPMENT.
 - (7) MANUFACTURER'S WRITTEN GUARANTEES THAT EXTEND BEYOND THE CONTRACTOR'S ONE YEAR GUARANTEE.
- C. THE OPERATING AND MAINTENANCE MANUALS SHALL BE CONSIDERED A PART OF THE FINAL INSPECTION AND THEY SHALL BE SUBMITTED FOR APPROVAL AT LEAST THIRTY (30) DAYS PRIOR TO REQUEST FOR FINAL INSPECTION.
6. ACCESS DOORS: ACCESS DOORS SHALL BE PROVIDED FOR ALL CONCEALED VALVES, CONTROLS, AND ANY OTHER EQUIPMENT OR MATERIALS REQUIRING INSPECTION OR MAINTENANCE. ACCESS DOORS SHALL BE FURNISHED FOR FLOORS, WALLS AND CEILINGS, OF ADEQUATE SIZE SO THAT CONCEALED ITEMS WILL BE READILY ACCESSIBLE FOR SERVICING OR FOR REMOVAL AND REPLACEMENT IF NECESSARY.
7. IDENTIFICATION
 - A. NAMEPLATES
 - (1) DESCRIPTION: LAMINATED THREE-LAYER PLASTIC WITH ENGRAVED LETTERS ON LIGHT CONTRASTING BACKGROUND COLOR.
 - B. TAGS
 - (1) METAL TAGS: BRASS WITH STAMPED LETTERS; TAG SIZE MINIMUM 1-1/2 INCHES (40 MM) DIAMETER.
 - (2) CHART: TYPEWRITTEN LETTER SIZE LIST IN ANODIZED ALUMINUM FRAME.
 - C. PIPE MARKERS
 - (1) COLOR: CONFORM TO ASME A13.1.
 - (2) PLASTIC PIPE MARKERS: FACTORY FABRICATED, FLEXIBLE, SEMI-RIGID PLASTIC, PREFORMED TO FIT AROUND PIPE OR PIPE COVERING; MINIMUM INFORMATION INDICATING FLOW DIRECTION ARROW AND IDENTIFICATION OF FLUID BEING CONVEYED.
 - D. INSTALLATION
 - (1) DEGREASE AND CLEAN SURFACES TO RECEIVE ADHESIVE FOR IDENTIFICATION MATERIALS.
 - (2) INSTALL PLASTIC NAMEPLATES WITH CORROSIVE-RESISTANT MECHANICAL FASTENERS, OR ADHESIVE, APPLY WITH SUFFICIENT ADHESIVE TO ENSURE PERMANENT ADHESION AND SEAL WITH CLEAR LAQUER.
 - (3) INSTALL TAGS WITH CORROSION RESISTANT CHAIN.
 - (4) INSTALL PLASTIC PIPE MARKERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - (5) IDENTIFY VALVES IN MAIN AND BRANCH PIPING WITH TAGS.
 - (6) IDENTIFY PIPING, CONCEALED OR EXPOSED, WITH PLASTIC PIPE MARKERS. IDENTIFY SERVICE, FLOW DIRECTION, AND PRESSURE. INSTALL IN CLEAR VIEW AND ALIGN WITH AXIS OF PIPING. LOCATE IDENTIFICATION NOT TO EXCEED 20 FEET (6 M) ON STRAIGHT RUNS INCLUDING RISERS AND DROPS, ADJACENT TO EACH VALVE AND TEE, AT EACH SIDE OF PENETRATION OF STRUCTURE OR ENCLOSURE, AND AT EACH OBSTRUCTION.
 8. PIPING SPECIALTIES
 - A. PIPE ESCUTCHEONS: INSTALL PIPE ESCUTCHEONS ON EACH PIPE PENETRATION THRU FLOORS, WALLS PARTITIONS, AND CEILINGS WHERE PENETRATION IS EXPOSED TO VIEW AND ON EXTERIOR OF BUILDING. SECURE ESCUTCHEON TO PIPE OR INSULATION SO ESCUTCHEON COVERS PENETRATION HOLE, AND FLUSH WITH ADJOINING SURFACE. PROVIDE SHEET STEEL ESCUTCHEONS, SOLID OR SPLIT HINGED. FOR AREAS WHERE WATER AND CONDENSATION CAN BE EXPECTED TO ACCUMULATE, PROVIDE CAST BRASS SHEET BRASS ESCUTCHEONS, SOLID OR SPLIT HINGED.
 - B. PIPE SLEEVES: INSTALL PIPE SLEEVES WHERE PIPING PASSES THROUGH WALLS, FLOORS, CEILINGS, AND ROOFS. DO NOT INSTALL SLEEVES THROUGH STRUCTURAL MEMBERS OF WORK, EXCEPT AS DETAILED ON DRAWINGS, OR AS REVIEWED BY ARCHITECT/ENGINEER. SIZE SLEEVES SO THAT PIPING AND INSULATION (IF ANY) WILL HAVE FREE MOVEMENT IN SLEEVE, INCLUDING ALLOWANCE FOR THERMAL EXPANSION; BUT NOT LESS THAN 2 PIPE SIZES LARGER THAN PIPING RUN. INSTALL LENGTH OF SLEEVE EQUAL TO THICKNESS OF CONSTRUCTION PENETRATED, AND FINISH FLUSH TO SURFACE; EXCEPT FLOOR SLEEVES. EXTEND FLOOR SLEEVES 1/4 INCH ABOVE LEVEL FLOOR FINISH, AND 3/4 INCH ABOVE FLOOR FINISH SLOPED TO DRAIN. PROVIDE TEMPORARY SUPPORT OF SLEEVES DURING PLACEMENT OF CONCRETE AND OTHER WORK AROUND SLEEVES, AND PROVIDE TEMPORARY CLOSURE TO PREVENT CONCRETE AND OTHER MATERIALS FROM ENTERING SLEEVES.
 - C. FIRE BARRIER PENETRATION SEALS: PROVIDE SEALS FOR ANY OPENING THROUGH FIRE-RATED WALLS, FLOORS, OR CEILINGS, USED AS PASSAGE FOR PLUMBING COMPONENTS SUCH AS PIPING. INSTALLATION SHALL BE AS RECOMMENDED BY THE MANUFACTURER. SEALS SHALL BE EQUAL TO ONE OF THE FOLLOWING:
 - (1) DOM-CORNING FIRESTOP SYSTEM PENETRATION SEALS INCLUDING FIRE STOP SEALANT AND FIRE STOP FOAM.
 - (2) 3M BRAND "FIRE BARRIER WRAP/STRIP" NO. FS-195. FIRE BARRIER CAULK, CP-25 AND PUTTY NO. 303 SHALL BE USED WHERE PVC, POLYPROPYLENE OR OTHER NON-METALLIC PIPES PASS THROUGH FLOORS AND FIRE RATED WALLS.
 9. GAUGES
 - A. PRESSURE GAUGES: PROVIDE PRESSURE GAUGES OF MATERIALS, CAPACITIES, AND RANGES INDICATED, DESIGNED AND CONSTRUCTED FOR USE IN SERVICE INDICATED. PRESSURE GAUGES SHALL BE GENERAL USE, 1% ACCURACY, ANSI B40.1 GRADE A, PHOSPHOR BRONZE BOURDON TYPE, BOTTOM CONNECTION, DRAWN STEEL OR BRASS CASE, GLASS LENS, 4-1/2 INCH DIAMETER, BRASS CONNECTOR WITH 1/4 INCH MALE NPT. WHITE COATED ALUMINUM SCALE WITH PERMANENTLY ETCHED MARKINGS.
 - (1) RANGE: CONFORM TO THE FOLLOWING:
 10. INSULATION
 - A. FLAME/SMOKE RATINGS: PROVIDE COMPOSITE PLUMBING INSULATION (INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES) WITH FLAME-Spread RATING OF 25 OR LESS, AND SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 METHOD. INSULATION SHALL BE LABELED BY THE MANUFACTURER. THE LABEL SHALL INDICATE THE INSULATING VALUE, FLAME SPREAD AND SMOKE-DEVELOPED RATING.
 - B. INSTALLATION: INSULATION SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS USING ONLY ADHESIVES, MASTICS AND PLUMBING FASTENERS APPROVED BY THE INSULATION MANUFACTURER. INSULATION SHALL NOT BE APPLIED UNTIL AFTER THE EQUIPMENT HAS BEEN TESTED WITH RESULTS ACCEPTABLE TO THE ARCHITECT/ENGINEER. INSULATION WITH A VAPOR BARRIER JACKET SHALL BE APPLIED WITH A CONTINUOUS, UNBROKEN VAPOR SEAL AND ALL JOINTS SHALL BE SEALED WITH A VAPOR BARRIER ADHESIVE UNLESS OTHERWISE INDICATED. STAPLES, STICK CLIPS AND HANGERS SHALL BE VAPOR SEALED WHERE THEY PUNCTURE VAPOR BARRIER JACKETS.
 - C. MATERIALS:
 - (1) GLASS FIBER PIPE INSULATION: HEAVY DENSITY PREFORMED PIPE INSULATION WITH OPERATING TEMPERATURE RANGE OF -60 DEGREES F TO 350 DEGREES F, THERMAL CONDUCTIVITY " $k=0.24$ " BTU-IN/HOUR-SF-DEG F AT 100 DEGREES F. FACTORY APPLIED JACKET (ASME) SHALL CONSIST OF WHITE KRAFT PAPER BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBER YARN, EQUAL TO OMENS-CORNING ASME C-564.
 - (2) CELLULAR FOAM PIPE INSULATION: TUBULAR, FLEXIBLE, FIRE RESISTANT INSULATION WITH OPERATING TEMPERATURE RANGE OF -40 DEGREES F TO 220 DEGREES F, THERMAL CONDUCTIVITY " $k=0.27$ " BTU-IN/HOUR-SF-DEG F AT 100 DEGREES F. EQUAL TO ARMSTRONG MB ARMAFLEX FINISH, ARMAFLEX AG, APPLY ARMSTRONG MB ARMAFLEX FINISH, IMCOA, FLEXIBLE CLOSED CELL POLYETHYLENE TUBING, ASTM C534, " $k=0.24$ " AT 75 DEGREES F, SERVICE TEMPERATURE -110F TO 210F.
 - D. PIPE INSULATION
 - (1) INSULATION OMITTED: OMIT INSULATION ON EXPOSED PLUMBING FIXTURE RUNOUTS FROM FACES OF WALL OR FLOOR TO FIXTURE; ON UNIONS, FLANGES, STRAINERS, FLEXIBLE CONNECTIONS, AND EXPANSION JOINTS.
 - (2) COVER VALVES, FITTINGS AND SIMILAR ITEMS IN EACH PIPING SYSTEM WITH EQUIVALENT THICKNESS AND COMPOSITION OF INSULATION AS APPLIED TO ADJOINING PIPE RUN.
 - (3) EXTEND PIPING INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS AND SIMILAR PIPING PENETRATIONS, EXCEPT WHERE OTHERWISE INDICATED.
 - (4) INSTALL PROTECTIVE METAL SHIELDS AND INSULATED INSERTS WHEREVER NEEDED TO PREVENT COMPRESSION OF INSULATION.
 - (5) PIPE HANGER INSULATION INSERTS: BUTT PIPE INSULATION AGAINST PIPE INSULATION INSERTS. FOR HOT PIPES, APPLY 3 INCH WIDE VAPOR BARRIER TAPE OR BAND OVER THE BUTT JOINTS. FOR COLD PIPING APPLY WET COAT OF VAPOR BARRIER LAP CEMENT ON BUTT JOINTS AND SEAL JOINTS WITH 3 INCH WIDE VAPOR BARRIER TAPE OR BAND.
 - (6) DOMESTIC HOT AND COLD WATER PIPING, ABOVE GROUND: PIPING SHALL BE INSULATED WITH GLASS FIBER PIPE INSULATION. CELLULAR FOAM OR POLYETHYLENE PIPE INSULATION MAY BE USED ON PIPE SIZES 1 INCH AND SMALLER. VAPOR SEAL IS NOT REQUIRED ON HOT WATER PIPING.
 11. NATURAL GAS SYSTEMS
 - A. GAS SERVICE PIPING:
 - (1) ALL SIZES: SCHEDULE 40 BLACK STEEL PIPE, ASTM A120/A53-OW OR ASTM/A53 GRADE B (WELDED OR SEAMLESS); WROUGHT STEEL BUTTWELD FITTINGS.
 - (2) WRAPPING FOR EXPOSED PIPING: MACHINE WRAP PIPE USING 50% OVERLAP WRAP, WITH POLYVINYL CHLORIDE TAPE. HAND WRAP FITTINGS USING 100% OVERLAP WRAP EXTENDING 6 INCHES BEYOND FITTING ON WRAPPED PIPE. COMPLY WITH TAPE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - B. BUILDING DISTRIBUTION PIPING:
 - (1) ALL SIZES: SCHEDULE 40 BLACK STEEL PIPE, ASTM A120/A53-OW OR ASTM/A53 GRADE B (WELDED OR SEAMLESS); MALLEABLE IRON THREADED FITTINGS (EXPOSED PIPING ONLY); WROUGHT STEEL BUTTWELD FITTINGS (CONCEALED AND EXPOSED PIPING).
 - C. GAS COCKS:
 - (1) GAS COCKS 2 INCHES AND SMALLER: 150 PSI NON-SHOCK WOG, BRONZE STRAIGHTWAY COCK, FLAT OR SQUARE HEAD, THREADED ENDS.
 - D. ALL GAS PIPING EQUIPMENT CONNECTIONS SHALL BE PROVIDED WITH A 6 INCH DIRT TRAP, UNION AND GAS COCK SHUT OFF.
 - E. ALL JOINTS SHALL BE SEALED WITH CHEMICALLY RESISTANT SEALER APPLIED TO MALE THREADS OF PIPE CONNECTION.
 - F. GAS PIPING SHALL BE INSTALLED WITH A 1/64 INCH PER FOOT DOWNWARD SLOPE IN DIRECTION OF FLOW.
 12. PLUMBING PIPING
 - A. DOMESTIC WATER PIPING ABOVE GROUND

PIPE: TYPE L HARD DRAWN COPPER
FITTINGS: CAST BRONZE OR WROUGHT COPPER
JOINTS: SOLDERED USING TIN-ANTIMONY (95-5) SOLDER
 - B. DOMESTIC WATER PIPING UNDERGROUND

PIPE: TYPE K SEAMLESS ROLL STOCK
FITTINGS: CAST BRONZE OR WROUGHT COPPER
JOINTS: SOLDERED USING TIN-ANTIMONY (95-5) SOLDER
 - C. SOIL, WASTE AND VENT PIPING BELOW GRADE

SIZE: 4 INCHES AND SMALLER
PIPE: SERVICE WEIGHT CAST IRON ASTM A-74 OR SCH. 40 PVC-DWV ASTM D-2665
FITTINGS: SERVICE WEIGHT CAST IRON OR PVC SOCKET
JOINTS: HUB & SPIGOT CAULKED OR COMPRESSION GASKETS FOR CAST IRON OR SOLVENT CEMENT JOINTS FOR PVC
 13. CLEANOUTS
 - A. CLEANOUTS SHALL BE THE SAME SIZE AS LINE SERVED, BUT NOT LARGER THAN 4 INCHES AND AT ALL POINTS WHERE DIRECTION CHANGE IS MORE THAN 45 DEGREES, AT MINIMUM INTERVALS OF 50 FEET FOR 4 INCH AND SMALLER PIPING, AT MINIMUM INTERVALS OF 100 FEET FOR PIPING LARGER THAN 4 INCHES, AS REQUIRED BY CODE AND AS INDICATED ON THE DRAWINGS. COVERS SHALL BE SET FLUSH WITH FLOOR OR WALL.
 14. PLUMBING VALVES
 - A. PROVIDE SHUT-OFF VALVE AND UNION OR EQUIVALENT AT EACH HOT AND COLD WATER EQUIPMENT CONNECTION. PROVIDE SHUT-OFF VALVE ON EACH BRANCH OR RISER THAT SERVES TWO OR MORE PLUMBING FIXTURES.
 - B. GATE VALVES 2-1/2 INCHES AND SMALLER: ALL BRONZE, RISING STEM, SOLID WEDGE DISC. STOCKHAM B-100 OR B-108.
 - C. BALL VALVES MAY BE USED IN LIEU OF GATE VALVES 2 INCHES AND SMALLER. BALL VALVES SHALL HAVE BRONZE BODY, BRONZE BALL AND TEE SEATS AND SEALS. STOCKHAM S-216BRRT OR S-216BRRS.
 15. WATER HEATERS
 - A. UL AND NEMA COMPLIANCE: PROVIDE ELECTRICAL COMPONENTS REQUIRED AS PART OF PLUMBING EQUIPMENT, WHICH HAVE BEEN LISTED AND LABELED BY UNDERWRITERS LABORATORIES AND COMPLY WITH NEMA STANDARDS.
 - B. NEC COMPLIANCE: COMPLY WITH NATIONAL ELECTRICAL CODE (ANSI/NFPA 70) AS APPLICABLE TO INSTALLATION AND ELECTRICAL CONNECTIONS OF ANCILLARY ELECTRICAL COMPONENTS OF PLUMBING EQUIPMENT.
 16. PLUMBING FIXTURES
 - A. CODES AND STANDARDS: COMPLY WITH APPLICABLE PORTIONS OF NATIONAL STANDARD PLUMBING CODE PERTAINING TO MATERIALS AND INSTALLATION OF PLUMBING FIXTURES.
 - (1) ANSI STANDARDS: COMPLY WITH APPLICABLE ANSI STANDARDS PERTAINING TO PLUMBING FIXTURES AND SYSTEMS.
 - (2) PDI COMPLIANCE: COMPLY WITH STANDARDS ESTABLISHED BY PDI PERTAINING TO PLUMBING FIXTURE SUPPORTS.
 - (3) UL COMPLIANCE: CONSTRUCT WATER COOLERS IN ACCORDANCE WITH UL STANDARD 399 "DRINKING-WATER COOLERS" AND PROVIDE UL LISTING AND LABEL.
 - (4) ASHRAE COMPLIANCE: TEST AND RATE WATER COOLERS IN ACCORDANCE WITH ASHRAE STANDARD 18 "METHOD OF TESTING FOR RATING DRINKING-WATER COOLERS WITH SELF-CONTAINED MECHANICAL REFRIGERATION SYSTEMS".
 - (5) ARI COMPLIANCE: CONSTRUCT AND INSTALL WATER COOLERS IN ACCORDANCE WITH ARI STANDARD 1010 "DRINKING-FOUNTAINS AND SELF-CONTAINED MECHANICALLY-REFRIGERATED DRINKING-WATER COOLERS".

(6) AND PROVIDE CERTIFICATION SYMBOL.
(6) ANSI AND ADA COMPLIANCE: CONSTRUCT AND INSTALL BARRIER FREE PLUMBING FIXTURES IN ACCORDANCE WITH ANSI STANDARD A117.1 "SPECIFICATIONS FOR MAKING BUILDINGS AND FACILITIES ACCESSIBLE TO AND USABLE BY PHYSICALLY HANDICAPPED PEOPLE" AND WITH THE "AMERICANS WITH DISABILITIES ACT GUIDELINES".

B. ALL EXPOSED FIXTURE SUPPLIES AND WASTE LINES SHALL BE CHROME PLATED. NO EXPOSED COPPER, PVC AND/OR CAST IRON PIPING IS ALLOWED. UTILIZE CHROME NIPPLES AS REQUIRED FOR DOMESTIC ROUGH-IN.

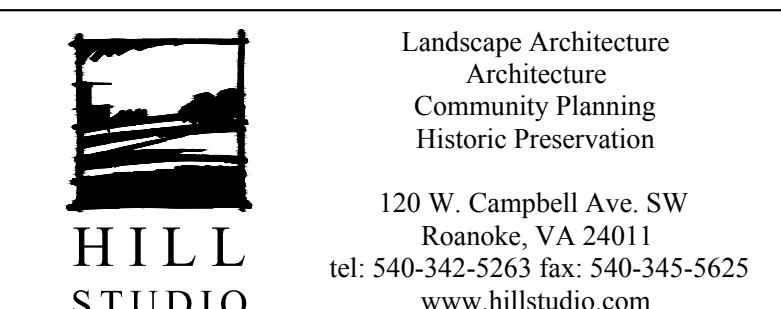
C. PLUMBING FIXTURES SHALL BE POSITIVELY VENTED AND TRAPPED IN ACCORDANCE WITH THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE, LATEST EDITION. WET VENTING IS ALLOWED IF WASTE PIPING IS OVERSIZED AND IN ACCORDANCE WITH CODE PROVISIONS. LOCATION OF VENT SHALL NOT EXCEED MAXIMUM DISTANCES TO THE TRAP AS ESTABLISHED WITHIN THE CODE.

17. CLEANING AND TESTING

A. ALL WATER PIPING, VALVES, ETC. SHALL BE THOROUGHLY FLUSHED OF FOREIGN MATTER AND TESTED FOR LEAKS IN ACCORDANCE WITH THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE, LATEST EDITION. ANY LEAKAGE SHALL BE REPAIRED. DISINFECT DOMESTIC WATER PIPING INCLUDING WATER SERVICE PIPING IN ACCORDANCE WITH AWWA C601.

B. ALL DRAIN, WASTE AND VENT PIPING SHALL BE TESTED FOR LEAKS IN ACCORDANCE WITH THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE, LATEST EDITION. NO VISIBLE DROP IN WATER LEVEL WILL BE ACCEPTABLE.

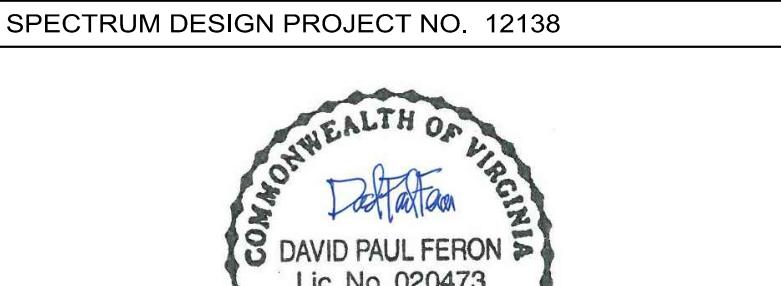
END OF SPECIFICATIONS



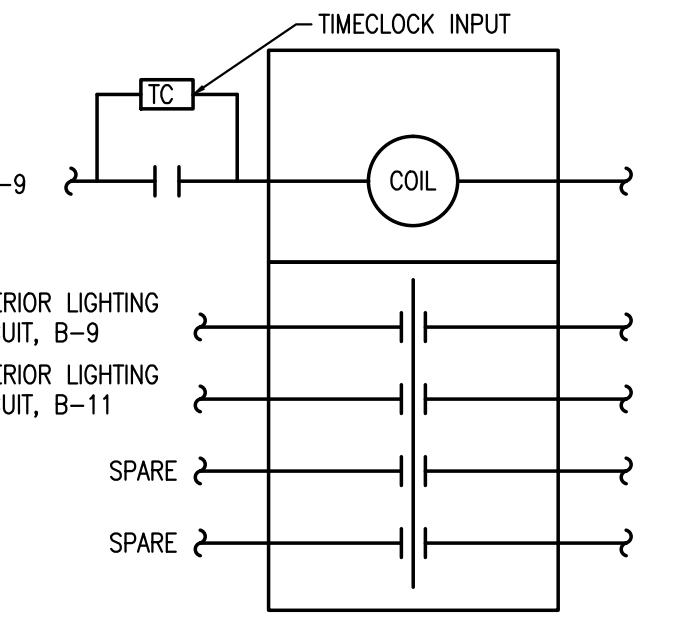
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VIRGINIAN RAILWAY PASSENGER STATION PHASE II - RESTORATION
VDOT UPC # 103592
STATE PROJ# EN05-128-325, C502
ROANOKE, VA
SPECTRUM DESIGN PROJECT NO. 12138



DATE: 31 MAY 2015
DESIGN ARCHITECT: BAR
PROJECT ARCHITECT: ZAZ
PROJECT ENGINEER: GEG
CHECKED BY: ZAZ
DRAWN BY: ZAZ
REVISIONS: NUMBER: DATE
SHEET TITLE: PLUMBING - SPECIFICATIONS
P001



**TYPICAL LIGHTING CONTACTOR
DETAIL (LCN OR LCE)**

SCALE: NONE

LIGHTING CONTACTOR NOTES:

- EACH CONTACTOR SHALL BE ELECTRICALLY HELD WITH FOUR (4) - 30A CONTACTS, 120/277V RATED. PROVIDE WITH HAND-OFF-AUTO SELECTOR AND NEMA 1 ENCLOSURE. REFER TO THE SPECIFICATIONS FOR ADDITIONAL DETAILS.
- PROVIDE 120V OR 277V CIRCUIT FOR CONTROL OF LIGHTING CONTACTOR. UTILIZE NORMAL POWER CIRCUIT FOR LCN CONTACTORS AND LIFE SAFETY CIRCUIT FOR LCE CONTACTORS.
- ROUTE CIRCUITS BE-9 & BE-11 TO EXTERIOR LIGHTING FIXTURES VIA LIGHTING CONTACTOR AS INDICATED ON THE LIGHTING FLOOR PLANS.
- PROVIDE LIGHTING CONTACTORS LCE WITH UL 924 LISTED EMERGENCY RELAY CAPABLE OF SWITCHING CONTACTOR ON AND TURNING ASSOCIATED LIGHTING CIRCUITS ON UPON LOSS OF NORMAL POWER REGARDLESS OF LIGHTING CONTROL SWITCH INPUT. RELAY SHALL SENSOR NORMAL POWER IN AREA SERVED BY EMERGENCY LIGHTING CIRCUITS.

LIGHT FIXTURE SCHEDULE

- TYPE-1** WALL MOUNTED CASCADE UP/DOWN DOUBLE SCONCE FIXTURE. FINISH SHALL BE OLD BRASS. 120 INPUT WATTS
REJUVENATION LIGHTING #A3447
DOWN SHADE: MISSION AMBER FLARED #B6611
UP SHADE: MISSION AMBER FROSTED FLARED #B8899
- TYPE-2** PENDANT MOUNTED LIGHT FIXTURE. FINISH SHALL BE OLD BRASS. REFER TO MANUFACTURER'S INSTALLATION FOR MAXIMUM WATTAGE.
REJUVENATION LIGHTING #A0850
SHADE: B0420 OPAL
- TYPE-3** PENDANT MOUNTED CASCADE UP/DOWN CHANDELIER FIXTURE. FINISH SHALL BE OLD BRASS. REFER TO MANUFACTURER'S INSTALLATION FOR MAXIMUM WATTAGE.
REJUVENATION LIGHTING #A5889-4 ARM
DOWN SHADE: MISSION AMBER FLARED #B6611
UP SHADE: MISSION AMBER FROSTED FLARED #B8899
- TYPE-4** EXTERIOR CEILING MOUNT LIGHT FIXTURE SUITABLE FOR WET LOCATION. REFER TO MANUFACTURER'S INSTALLATION FOR MAXIMUM WATTAGE.
RAB LIGHTING VC100B WITH GL100B, OPAL GLOBE 100 SERIES
- TYPE-5** PENDANT MOUNTED CASCADE UP/DOWN CHANDELIER FIXTURE. FINISH SHALL BE OLD BRASS. REFER TO MANUFACTURER'S INSTALLATION FOR MAXIMUM WATTAGE.
REJUVENATION LIGHTING #A5889-2 ARM
DOWN SHADE: MISSION AMBER FLARED #B6611
UP SHADE: MISSION AMBER FROSTED FLARED #B8899
- TYPE-6** PENDANT MOUNTED CASCADE UP/DOWN CHANDELIER FIXTURE. FINISH SHALL BE OLD BRASS. REFER TO MANUFACTURER'S INSTALLATION FOR MAXIMUM WATTAGE.
REJUVENATION LIGHTING #A5889-2 ARM
DOWN SHADE: MISSION SATIN ETCHED FLARED #B6611
UP SHADE: MISSION SATIN ETCHED FLARED #B8899
- TYPE-7** SURFACE MOUNTED 2x4 LINEAR FLUORESCENT FIXTURE. 59 INPUT WATTS.
- TYPE-8** WALL MOUNTED CASCADE DOUBLE SCONCE FIXTURE (UP ONLY). FINISH SHALL BE OLD BRASS. REFER TO MANUFACTURER'S INSTALLATION FOR MAXIMUM WATTAGE.
REJUVENATION LIGHTING #A3447
UP SHADE: MISSION SATIN ETCHED FLARED #B8899
- TYPE-9** WALL MOUNTED CASCADE UP/DOWN DOUBLE SCONCE FIXTURE. FINISH SHALL BE OLD BRASS. 120 INPUT WATTS
REJUVENATION LIGHTING #A3447
DOWN SHADE: MISSION SATIN ETCHED FLARED #B6611
UP SHADE: MISSION SATIN ETCHED FLARED #B8899
- TYPE-10** EXTERIOR LIGHT FIXTURE, SEE SHEET E201.
- TYPE-11** EXTERIOR LIGHT FIXTURE, SEE SHEET E201.
- LT-1** 4' SINGLE CIRCUIT TRACK LIGHTING SYSTEM. SYSTEM DESIGN BASED ON TWO 15W MOGU BASED LED LAMPS PER TWO FOOT SECTION. 120V. FIXTURES AND FINISH TO BE SELECTED BY THE OWNER. 60 LIGHTING INPUT WATTS. 300 INPUT WATTS FOR CIRCUIT CALCULATIONS PER NEC 220.43(B).

EM LIGHT SURFACE MOUNTED EMERGENCY WALL PACK WITH TWO HEADS, EACH HAVING ONE 1.5W, 3.6V LED LAMPS. PROVIDE WITH BATTERY CAPACITY TO ACHIEVE RATED OUTPUT A MINIMUM OF 90 MINUTES UPON LOSS OF BUILDING POWER. PROVIDE WEATHERPROOF REMOTE HEADS WHERE DESIGNATED 'WP'. PROVIDE UNSWITCHED HOT AND NEUTRAL FROM LIGHTING IN SAME SPACE.

EXIT SIGN EXIT SIGN SHALL BE IMPACT RESISTANT PLASTIC WHITE HOUSING, LOW TEMPERATURE LED LIGHT SOURCE THAT SHALL BE CONNECTED TO EMERGENCY POWER SYSTEM, PROVIDED WITH RED STENCIL LETTERING; CEILING OR WALL UNIVERSAL MOUNT AND UNIVERSAL ARROWS. PROVIDE SINGLE OR DOUBLE FACE AS INDICATED ON THE PLANS. CONTRACTOR SHALL CONNECT ALL EXIT SIGNS UNSWITCHED TO THE LOCAL LIGHTING CIRCUIT IN THE SAME SPACE IN WHICH THE SIGN IS LOCATED. INPUT WATTS < 5W. PROVIDE UNSWITCHED HOT & NEUTRAL FROM LIGHTING IN SAME SPACE.

NOTE 1: ALL FIXTURE MOUNTING HEIGHTS PER ARCHITECT UNLESS OTHERWISE NOTED.

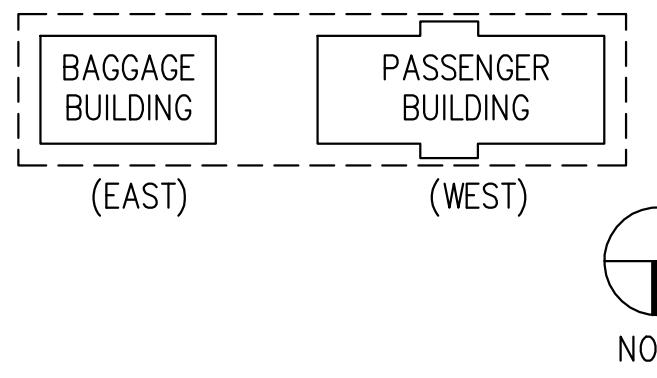
NOTE 2: LAMPS SHALL BE 3500K UNLESS NOTED OTHERWISE.

NOTE 3: ALL FIXTURE SHALL BE PROVIDED WITH LAMPS.

LEGEND

\$	SINGLE POLE LIGHT SWITCH
\$3	THREE WAY LIGHT SWITCH
Φ	DUPLEX RECEPTACLE
ΦG	DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER
ΦW	DUPLEX RECEPTACLE - WEATHERPROOF IN USE COVER & WEATHERPROOF GROUND FAULT RECEPTACLE
ΦA	DUPLEX RECEPTACLE - ABOVE COUNTER BACKSPLASH
③	WIRING JUNCTION BOX OR EQUIPMENT JUNCTION BOX - WALL MOUNTED
⑤	WIRING JUNCTION BOX OR EQUIPMENT JUNCTION
④	DATA/COMMUNICATIONS WALL OUTLET
TV	TELEVISION OUTLET
TC	TIME CLOCK
PBD	PANELBOARD
■■■	PANELBOARD
□	SAFETY DISCONNECT SWITCH
—	ELECTRICAL GROUND
◎	LIGHT FIXTURE - CEILING MOUNTED WITH TYPE DESIGNATION
◎+	LIGHT FIXTURE - WALL MOUNTED WITH TYPE DESIGNATION
◎()	LIGHT FIXTURE - CEILING MOUNTED WITH TYPE AND SIZE SHOWN
□□	FLUORESCENT LIGHT FIXTURE - SURFACE OR PENDANT MOUNTED
□□□	FLUORESCENT LIGHT FIXTURE - WALL MOUNTED - WITH TYPE DESIGNATION
—◎	LIGHT TRACK SYSTEM - WITH TYPE DESIGNATION
EM	LIGHT FIXTURE - ON GENERATOR POWER
EOI	EXIT SIGN - SOLID FACE(S) ILLUMINATED - ARROW(S) SHOW DIRECTION
EOH	EXIT SIGN - WALL MOUNTED
E, EX	EXISTING
SN3	SHEET NOTE
ECC	EQUIPMENT GROUNDING CONDUCTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
DO	DOOR OPERATOR

KEY PLAN



GENERAL NOTES

Landscape Architecture
Architecture
Community Planning
Historic Preservation

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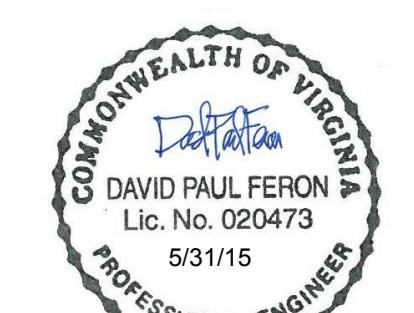


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**VIRGINIAN RAILWAY
PASSENGER STATION
PHASE II - RESTORATION**
VDOT UPC # 103592
STATE PROJ# EN05-128-325, C502

ROANOKE, VA

SPECTRUM DESIGN PROJECT NO. 12138

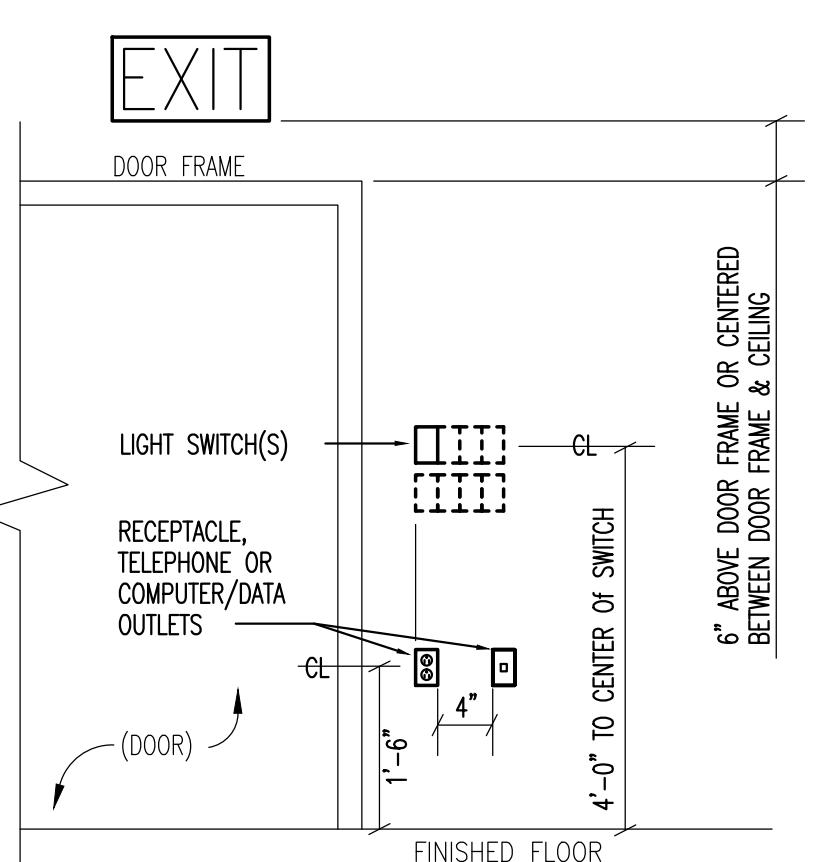


DATE: 31 MAY 2015
DESIGN ARCHITECT: BAR
PROJECT ARCHITECT: BAR
PROJECT ENGINEER: DCV
CHECKED BY: CAM
DRAWN BY: MAR
REVISIONS: NUMBER DATE

SHEET TITLE

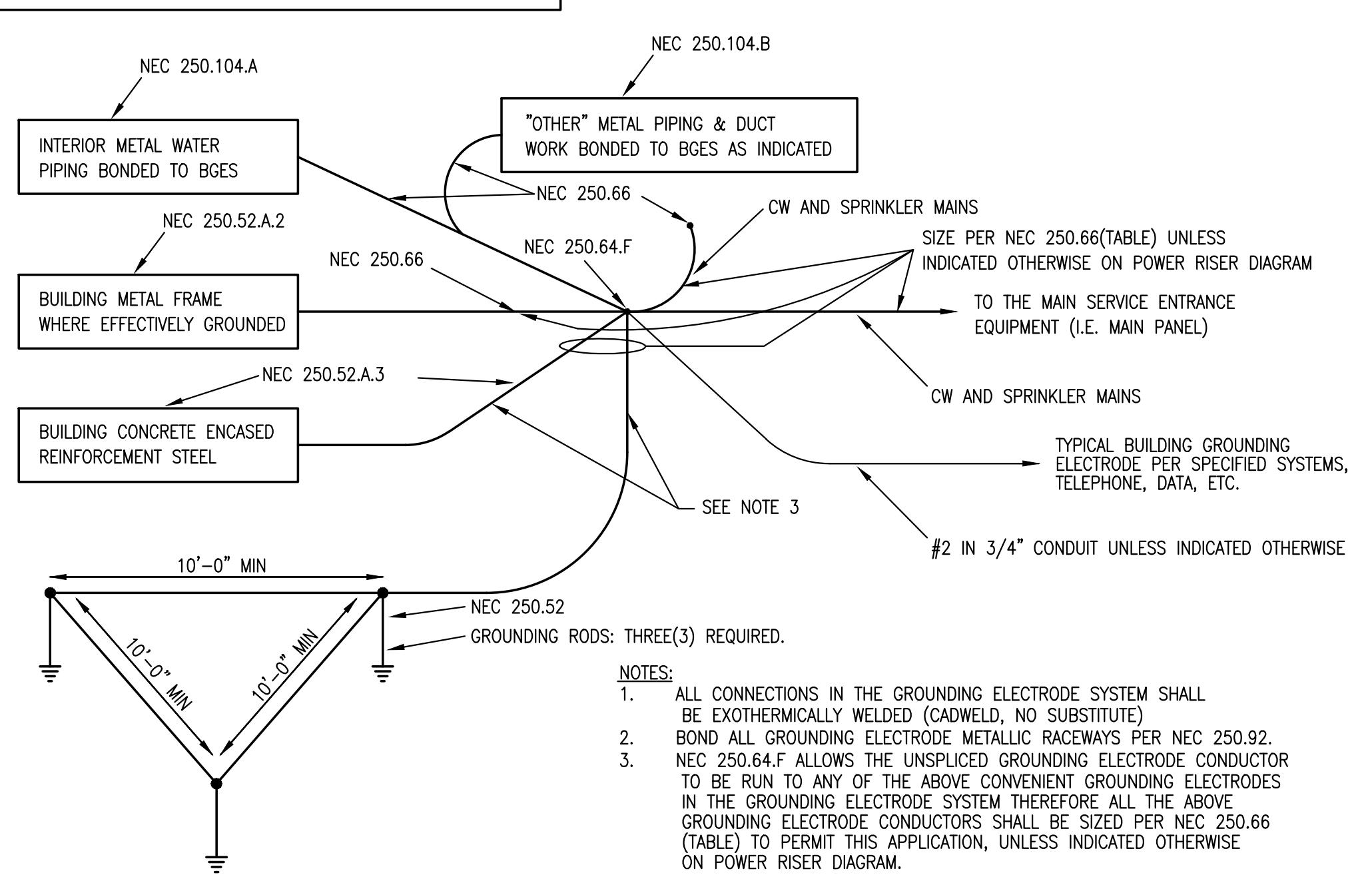
**ELECTRICAL LEGEND,
FI□TURE SCHEDULE
□ DETAILS**

E001



DETAIL - TYPICAL OUTLET BOX ELEVATIONS
NO SCALE

- NOTES:**
- WHERE MULTIPLE SWITCHES ARE USED, PROVIDE MULTIPLE GANG BOXES AS REQUIRED UP TO SIX GANGS. FOR GREATER NUMBER OF SWITCHES OR LIGHT CONTROL DIMMERS, USE ADDITIONAL ROWS AT 8" LOWER HEIGHT. DIVIDE MULTIPLE SWITCHES EVENLY, FOR MATCHING BOX GANGS.
 - FOR DIMMER, DERATE AND PROVIDE SPACING AS RECOMMENDED BY THE MANUFACTURER.
 - RECEPTACLES AND OTHER OUTLETS SHALL ALIGN VERTICALLY WITH LIGHT SWITCHES AND OTHER DEVICES MOUNTED ABOVE.
 - RECEPTACLES SHOWN AT 48" HEIGHT MAY BE INCORPORATED INTO SAME SWITCHPLATE WITH LIGHT SWITCH.
 - RECEPTACLES AND OTHER OUTLETS AT SAME ELEVATION SHOWN SIDE BY SIDE ON PLANS SHALL BE MOUNTED 4" APART IN WALL UNLESS OTHERWISE REQUIRED BY FIRE ASSEMBLY DETAILS.



BUILDING GROUNDING ELECTRODE SYSTEM
SCHEMATIC

ELECTRICAL NOTES AND SPECIFICATIONS

1. INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, UNIFORM STATEWIDE BUILDING CODE, AND MANDATES OF THE LOCAL BUILDING OFFICIALS.
2. THE GENERAL ARRANGEMENT AND LOCATIONS OF LIGHT FIXTURES, OUTLETS AND EQUIPMENT IS INDICATED BY THE DRAWINGS AND SHALL BE INSTALLED IN ACCORDANCE THEREWITH, WITH THE EXCEPTION OF SUCH CHANGES WHICH MAY BE NECESSARY TO COORDINATE WITH EXISTING CONDITIONS. ELECTRICAL SUBCONTRACTOR SHALL COORDINATE WORK WITH INSTALLATION OF OTHER SUBCONTRACTORS, WITH EXISTING CONDITIONS, AND WITH OWNER SUPPLIED EQUIPMENT AND FURNISHINGS.
3. INSTALLATION OF LIGHT FIXTURES SHALL BE COORDINATED WITH CEILING LAYOUT, STRUCTURAL MEMBERS AND ADJACENT FINISHES.
4. ELECTRICAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF POWER WIRES TO ALL PLUMBING AND HVAC EQUIPMENT. ELECTRICAL SUBCONTRACTOR SHALL REVIEW ALL PLUMBING AND HVAC DRAWINGS TO DETERMINE LOCATIONS OF EQUIPMENT, 120 VOLT CONTROL WIRING AND CONDUIT SHALL BE BY THE ELECTRICAL SUBCONTRACTOR. ALL WIRING AND CONDUIT ASSOCIATED WITH LOW VOLTAGE MECHANICAL CONTROLS (LESS THAN 100 VOLTS) SHALL BE BY THE MECHANICAL SUBCONTRACTOR UNLESS WORKED OUT OTHERWISE BY THE INDIVIDUAL TRADES. MECHANICAL CONTROLS WIRING SHALL BE IN CONDUIT AND SHALL BE INSTALLED PER NATIONAL ELECTRIC CODE, UNIFORM STATEWIDE BUILDING CODE, AND MANDATES OF THE LOCAL BUILDING OFFICIALS.
5. ELECTRICAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE POWER COMPANY AND OBTAINING SERVICE FROM ELECTRIC POWER COMPANY. ANY FEES OR CHARGES BY THE POWER COMPANY SHALL BE PAID FOR BY THE OWNER. HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL CONDUIT, WIRING, CONCRETE PADS, ETC. REQUIRED BY THE UTILITY COMPANY FROM THE BUILDING TO THE EXTERIOR SERVICE ENTRANCE LOCATIONS. NEW ELECTRIC SERVICE SHALL BE 120/240VOLTS.
6. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL TESTING THE ELECTRICAL SYSTEM FOR:
- A. VOLTAGE AND TOTAL LOAD IN AMPS AND FOR INSULATION RESISTANCE IN OHMS ON EACH PHASE FOR SERVICE ENTRANCE.
 - B. VOLTAGE AND TOTAL LOAD IN AMPS FOR EACH PANELBOARD OR MOTOR CONTROL CENTER INSTALLED.
 - C. VOLTAGE AND TOTAL LOAD IN AMPS FOR EACH FEEDER CIRCUIT WITH #4 CONDUCTORS OF LARGER.
7. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW ON LIGHT FIXTURES, SWITCHES AND WIRING, DEVICES, SWITCHGEAR, LIGHTING CONTACTOR AND THE LIKE PRIOR TO INSTALLATION. ONE COPY OF SUBMITTAL SHALL BE PROVIDED FOR EACH CONTRACTOR AND SUBCONTRACTOR PLUS THREE COPIES FOR ARCHITECT/ENGINEER AND OWNER.
8. MAJOR ITEMS ARE SHOWN ON THE PROJECT PLANS. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL INCIDENTAL ITEMS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.
9. ELECTRICAL WORK SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AS TO SCHEDULING, DIMENSIONING AND LOCATION OF EQUIPMENT.
10. COORDINATE WITH ALL SECTIONS OF THE CONTRACT DOCUMENT TO PROVIDE PROPER ELECTRICAL POWER AND CONTROL CONNECTIONS FOR ARCHITECTURAL EQUIPMENT SUCH AS ELECTRIC DOOR OPENERS, ETC. COORDINATE WITH THE ARCHITECT/ENGINEER FOR LOCATIONS OF CONTROLLERS.
11. BUILDING ELECTRIC SERVICE SHALL BE GROUNDED PER NATIONAL ELECTRIC CODE, INCLUDING BUT NOT LIMITED TO CONNECTION TO METALLIC UNDERGROUND WATER PIPE AND AT LEAST TWO 10' X 3/4" DRIVEN COPPER GROUND ROD, BOND TO THE BUILDING STRUCTURAL STEEL AT THE NEAREST POINT, WHERE APPLICABLE, AND TO METAL ROOFING SYSTEMS. GROUNDING SYSTEM CONNECTIONS BELOW GRADE AND IN WET/DAMP LOCATIONS SHALL BE CADWELD EXOTHERMIC METHOD. GROUNDING CONNECTIONS INDOORS AND IN DRY LOCATIONS MAY BE MECHANICAL COMPRESSION TYPE. TOTAL RESISTANCE OF THE GROUNDING SYSTEM SHALL BE LESS THAN 25 OHMS PER NEC. PROVIDE ADDITIONAL GROUND RODS AS NECESSARY TO ACHIEVE THIS RESULT.
12. ALL CONDUIT SYSTEMS, EQUIPMENT CASES, MOTOR FRAMES AND SYSTEM NEUTRAL CONDUCTORS SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, ARTICLE 250.
13. WIRE SHALL BE COPPER OF MINIMUM OF 12 GAUZE SIZE AND SHALL BE TYPE THHN, THWN, RH OR RHW AND STRANDED IF NUMBER 8 AWG OR LARGER. WIRE SHALL BE RATED FOR 75 DEGREES MINIMUM. AND CONDUCTOR SIZES SHALL BE SELECTED BASED UPON 75 DEGREE WIRE. PROVIDE OVERSIZED WIRE FOR LONG CIRCUIT RUNS TO MAINTAIN VOLTAGE DROP WITHIN 3% AT FULL LOAD. EXAMPLE: FOR 20 AMP CIRCUIT WITH 13 AMP LOAD, PROVIDE #12 WIRE UP TO 70' LENGTH, PROVIDE #10 WIRE FROM 71 TO 115' LENGTH; PROVIDE #6 WIRE FROM 116 TO 185' LENGTH, AND PROVIDE #6 WIRE FOR BRANCH CIRCUITS OVER 185'.
14. ALL WIRING SHALL BE IN CONDUIT, RIGID METAL WHERE EXPOSED OUTDOORS AND BELOW GRADE; FLEXIBLE FOR EQUIPMENT CONNECTIONS AND EMT OTHERWISE. A SEPARATE GREEN INSULATED GROUND WIRE SHALL BE INSTALLED IN ALL CONDUITS. ALL CONDUIT SHALL BE NEATLY RUN AND SUPPORTED PER NATIONAL ELECTRIC CODE.
15. IN FINISHED AREAS WHERE EXPOSED STRUCTURE AND BEAMS EXIST, FOR ARCHITECTURAL EFFECT, CONDUITS WHICH CANNOT BE CONCEALED SHALL BE ROUTED CAREFULLY FOR BEST CONCEALMENT AND FOR ALIGNMENT WITH ARCHITECTURAL FEATURES.
16. METAL CLAD MC CABLE WITH GREEN GROUND WIRE MAY BE USED, CONCEALED FOR RUNS NO LONGER THAN 70 FEET AND FOR CIRCUITS NO GREATER THAN 30 AMPERES. FOR LONGER CIRCUIT RUNS, PROVIDE JUNCTION BOX AND CONTINUE HOME RUN USING WIRE IN CONDUIT. DERATE WIRE PER NEC FOR CONDUIT FILL AND FOR TOTAL DISTANCE OF THE BRANCH CIRCUIT.
17. WHERE MORE THAN THREE CURRENT CARRYING CONDUCTORS ARE CONTAINED IN A SINGLE CONDUIT, ADJUST CONDUCTOR SIZES AS NECESSARY TO ACCOUNT FOR DE-RATING THEIR AMPACITY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. GENERALLY, THERE SHOULD BE NO MORE THAN EIGHT CURRENT CARRYING CONDUCTORS (INCLUDING NEUTRALS) IN A CONDUIT.
18. ALL CONDUIT TO BE RUN CONCEALED WHERE POSSIBLE IN FINISHED SPACES. EXPOSED CONDUIT IS ACCEPTABLE IN MECHANICAL ROOMS, JANITOR CLOSETS. PVC CONDUIT IS NOT PERMITTED INSIDE THE BUILDING. WHERE UNDERGROUND PVC CONDUITS ENTER THE BUILDING, CONCRETE ENCASEMENT OR METAL SHROUD MAY BE USED TO PROTECT THE PVC FROM POSSIBLE DAMAGE.
19. PROVIDE WEATHERPROOF SEALS ON ALL CONDUIT AND SLEEVE PENETRATIONS INTO THE BUILDING.
20. SOME ELECTRICAL SYSTEM CABLING, SUCH AS FIRE ALARM, SOUND, TELEVISION, DATA OR TELEPHONE, MAY BE PERMITTED ABOVE ACCESSIBLE CEILING WITHOUT CONDUIT. HOWEVER, SUCH CABLING IS NOT PERMITTED TO BE EXPOSED. PROVIDE PARTIAL CONDUIT SYSTEM AS NEEDED TO PROTECT AND CONCEAL THE WIRING FROM VIEW. ANY LOCATION WHERE CABLES PASS ABOVE NON-ACCESSIBLE CEILINGS OR THROUGH FIRE RATED PARTITIONS SHALL UTILIZE CONDUIT AND SLEEVES WITH SEALANT TO RESTORE THE FIRE RATING OF THE PARTITION.
21. PANELBOARDS AND SWITCHGEAR SHALL BE SQUARE-D OR EQUAL, PROVIDED WITH NEMA 1 ENCLOSURE WITH DOOR FOR INDOOR LOCATIONS AND NEMA 3R ENCLOSURE WITH DOOR FOR EXTERIOR AND FOR WET/DAMP LOCATIONS. PROVIDE PLATED SOLID COPPER BUS, FULL SIZE NEUTRAL BAR AND GROUNDING BAR WITH LUGS FOR CABLE CONNECTION. PROVIDE TYPEDWRITTEN DIRECTORY WITH TRANSPARENT COVER INDICATING CIRCUITS, SPACES AND SPARES FOR ALL PANELS.
22. PROVIDE LIGHTNING PROTECTION ON ELECTRIC SERVICE CONSISTING OF GENERAL ELECTRIC #9L1SECC001, 3-POLE 650V RMS "TRANQUELL" SECONDARY LIGHTNING ARRESTOR AND GENERAL ELECTRIC #9L18BBB301, 3-POLE 650V RMA SECONDARY SURGE ARRESTOR.
23. PROVIDE TRANSIENT VOLTAGE SURGE PROTECTION (TVSS) ON ELECTRIC SERVICE AND ON EACH ELECTRIC SERVICE SEPARATELY DERIVED BY TRANSFORMERS. TVSS UNITS SHALL BE COMPLETE WITH DISCONNECTING MEANS AND SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE SERVICE EQUIPMENT OR WITHIN IT. TVSS UNITS SHALL BE RATED FOR 250KA SURGE CURRENT PER PHASE OR 125KA SURGE CURRENT PER MODE, L-G, N-G.
24. ALL SAFETY SWITCHES SHALL BE SIMILAR OR EQUAL TO SQUARE-D, HEAVY DUTY H SERIES WITH PADLOCK CAPABILITY. PROVIDE COMPLETE WITH AUXILIARY MICRO-SWITCH WHERE REQUIRED FOR INTERFACE WITH UPS, EMERGENCY POWER OFF SYSTEM OR WHERE REQUIRED FOR ELEVATOR EMERGENCY BATTERY DISCONNECT. COORDINATE WITH EQUIPMENT SUPPLIER AND WITH SPECIFICATIONS. PROVIDE NEMA-1 SWITCHES INDOORS AND NEMA-3R SWITCHES OUTDOORS AND IN WET OR DAMP LOCATIONS. PROVIDE FUSIBLE TYPE UNLESS NOTED OTHERWISE. SWITCHES IN KITCHENS SHALL BE STAINLESS STEEL.

SQUARE "D" LOAD CENTER 22,000 AIC											
PANELBOARD (PBD) "BE"											
200 AMPS MLO, 120/240 VOLT, 1 PHASE, 3 WIRE 42 SPACES, NEMA 1, SURFACE MTD											
CIRC. NO.	DESCRIPTION OF LOAD	SPACE #	AMPS/ POLES	WIRE SZ	PHASE KVA	AMPS/ POLES	WIRE SZ	PHASE KVA	AMPS/ POLES	WIRE SZ	DESCRIPTION OF LOAD
1	LIGHTING ROOM 107	1	20/1	12	1.80	20/1	12	RECEPTACLES ROOM	20/1	12	RECEPTACLES ROOM
3	LIGHTING ROOM 108	3	-	12	0.80	-	12	RECEPTACLES ROOM	-	12	RECEPTACLES ROOM
5	LIGHTS ROOMS 109-112	5	-	12	0.23	-	12	RECEPTACLES ROOM	-	12	RECEPTACLES ROOM
7	INTERIOR DOOR OPERATORS	7	-	12	0.10	-	12	RECEPTACLES ROOM	-	12	RECEPTACLES ROOM
9	CANOPY LIGHTS	9	-	12	0.42	-	12	RECEPTACLES	-	12	RECEPTACLES
11	SITE LIGHTING	11	-	12	0.83	-	12	RECEPTACLES ROOM	-	12	RECEPTACLES ROOM
13	CU-2 21.3MCA-1P-240V	13	35/2	8	2.56	15/2	14	AH-2 1HP-240V	14	-	-
		15	-	8	0.96	-	16	-	-	-	-
17	DWH-1 5.5KW-1P-240V	17	30/2	10	2.75	20/2	18	DWH-2 3.5KW-1P-240V	18	-	-
		19	-	10	1.75	-	20	-	-	-	-
21	EWC-1	21	20/1	12	0.60	-	22	PROVISION	-	22	PROVISION
23	PROVISION	23	-	-	-	-	24	PROVISION	-	24	PROVISION
25	PROVISION	25	-	-	-	-	26	PROVISION	-	26	PROVISION
27	PROVISION	27	-	-	-	-	28	PROVISION	-	28	PROVISION
29	PROVISION	29	-	-	-	-	30	PROVISION	-	30	PROVISION
31	PROVISION	31	-	-	-	-	32	PROVISION	-	32	PROVISION
33	PROVISION	33	-	-	-	-	34	PROVISION	-	34	PROVISION
35	PROVISION	35	-	-	-	-	36	PROVISION	-	36	PROVISION
37	PROVISION	37	-	-	-	-	38	PROVISION	-	38	PROVISION
39	TVSS	39	30/2	10	-	-	40	PROVISION	-	40	PROVISION
		41	-	10	-	-	42	PROVISION	-	42	PROVISION
TOTAL LOAD				12.37	12.85						

TOTAL CONNECTED LOAD: 25.2 kVA (105.1 A)

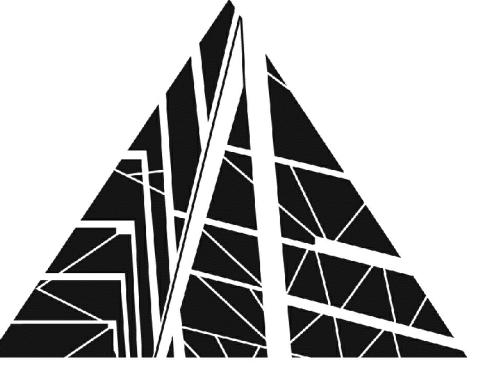
SQUARE "D" LOAD CENTER 22,000 AIC											
PANELBOARD (PBD) "PB"											
400 AMPS MLO, 120/240 VOLT, 1 PHASE, 3 WIRE 42 SPACES, NEMA 1, SURFACE MTD											
CIRC. NO.	DESCRIPTION OF LOAD	SPACE #	AMPS/ POLES	WIRE SZ	PHASE KVA	AMPS/ POLES	WIRE SZ	PHASE KVA	AMPS/ POLES	WIRE SZ	DESCRIPTION OF LOAD
1	LIGHTS ROOM 101	1	20/1	12	1.80	20/1	12	RECEPTACLES ROOM	20/1	12	RECEPTACLES ROOM
3	LIGHTS ROOM 103	3	-	12	0.60	-	12	RECEPTACLES ROOM	-	12	RECEPTACLES ROOM
5	LIGHTS ROOM 102, 103, 105	5	-	12	0.28	-	12	RECEPTACLES ROOM	-	12	RECEPTACLES ROOM
7	DWH-1 5.5KW-1P-240V	7	30/2	10	2.75	20/2	12	RECEPTACLES ROOM	10	12	RECEPTACLES ROOM
11	DWH-2 3.5KW-1P-240V	11	20/2	12	1.75	20/2	12	RECEPTACLES ROOM	12	12	RECEPTACLES ROOM
15	CU-1 18.8MCA-1P-240V	15	30/2	10	2.26	20/2	12	RECEPTACLES ROOM	14	14	RECEPTACLES ROOM
19	AH-1 1/2HP-240V	19	15/2	12	0.60	15/2	12	RECEPTACLES ROOM	20	20	RECEPTACLES ROOM
23	ATTIC RECEPTACLES	23	20/1	12	0.40	-	24	PROVISION	-	24	PROVISION
25	PROVISION	25	-	-	-	-	26	PROVISION	-	26	PROVISION
27	PROVISION	27	-	-	-	-	28	PROVISION	-	28	PROVISION
29	PROVISION	29	-	-	-	-	30	PROVISION	-	30	PROVISION
31	PROVISION	31	-	-	-	-	32	PROVISION	-	32	PROVISION
33	PROVISION	33	-	-	-	-	34	PROVISION	-	34	PROVISION
35	PROVISION	35	-	-	-	-	36	PROVISION	-	36	PROVISION
37	PROVISION	37	-	-	-	-	38	PROVISION	-	38	PROVISION
39	TVSS	39	30/2	10	-	-	40	PROVISION	-	40	PROVISION
		41	-	10	-	-	42	PROVISION	-	42	PROVISION
TOTAL LOAD				14.90	14.42						



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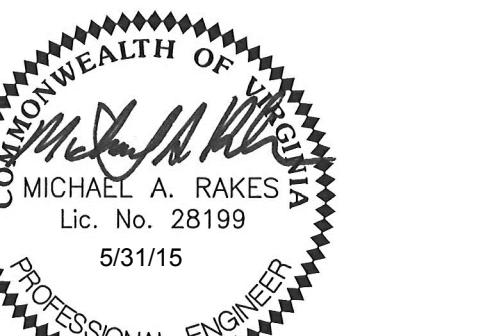
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VERGINIAN RAILWAY PASSENGER STATION CASE II - RESTORATION

DT UPC # 103592
DT PROJ# EN05-128-325, C502

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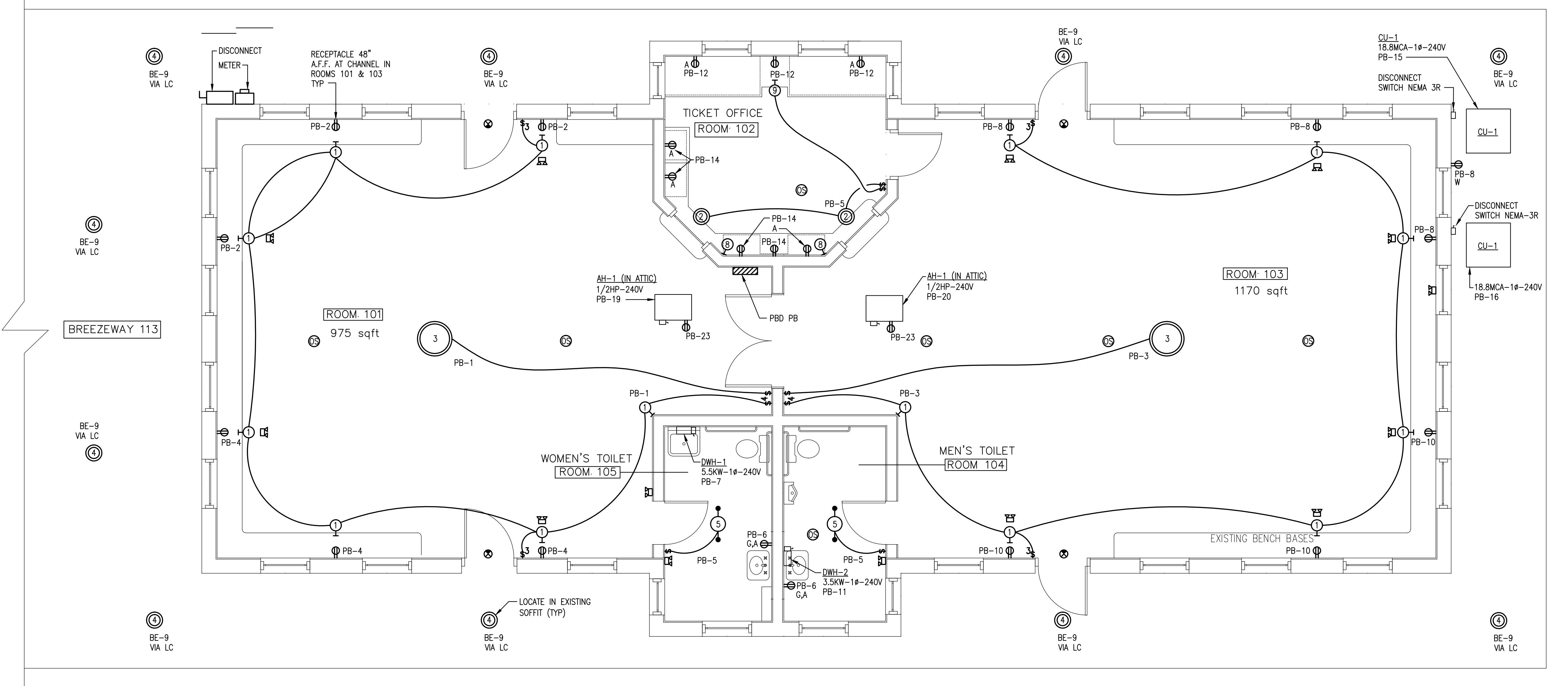
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ARCHITECT	31 MAY 2015
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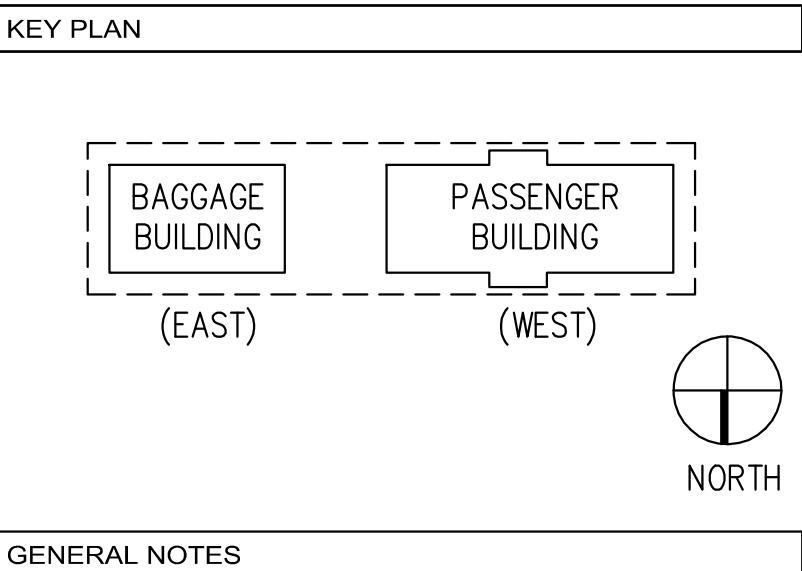
**PASSENGER BUILDING
ELECTRICAL PLAN**



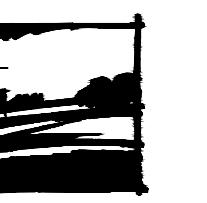
PASSENGER BUILDING ELECTRICAL PLAN

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

E101



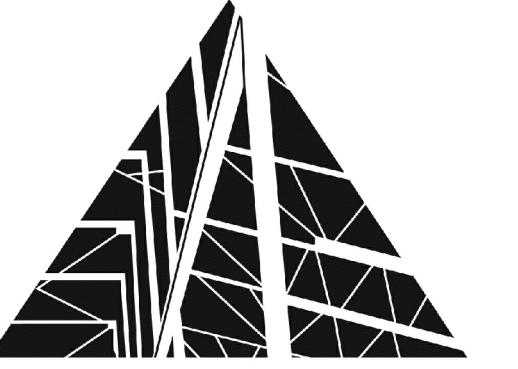
GENERAL NOTES



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STATE PROJ# EN05-128-325, C502

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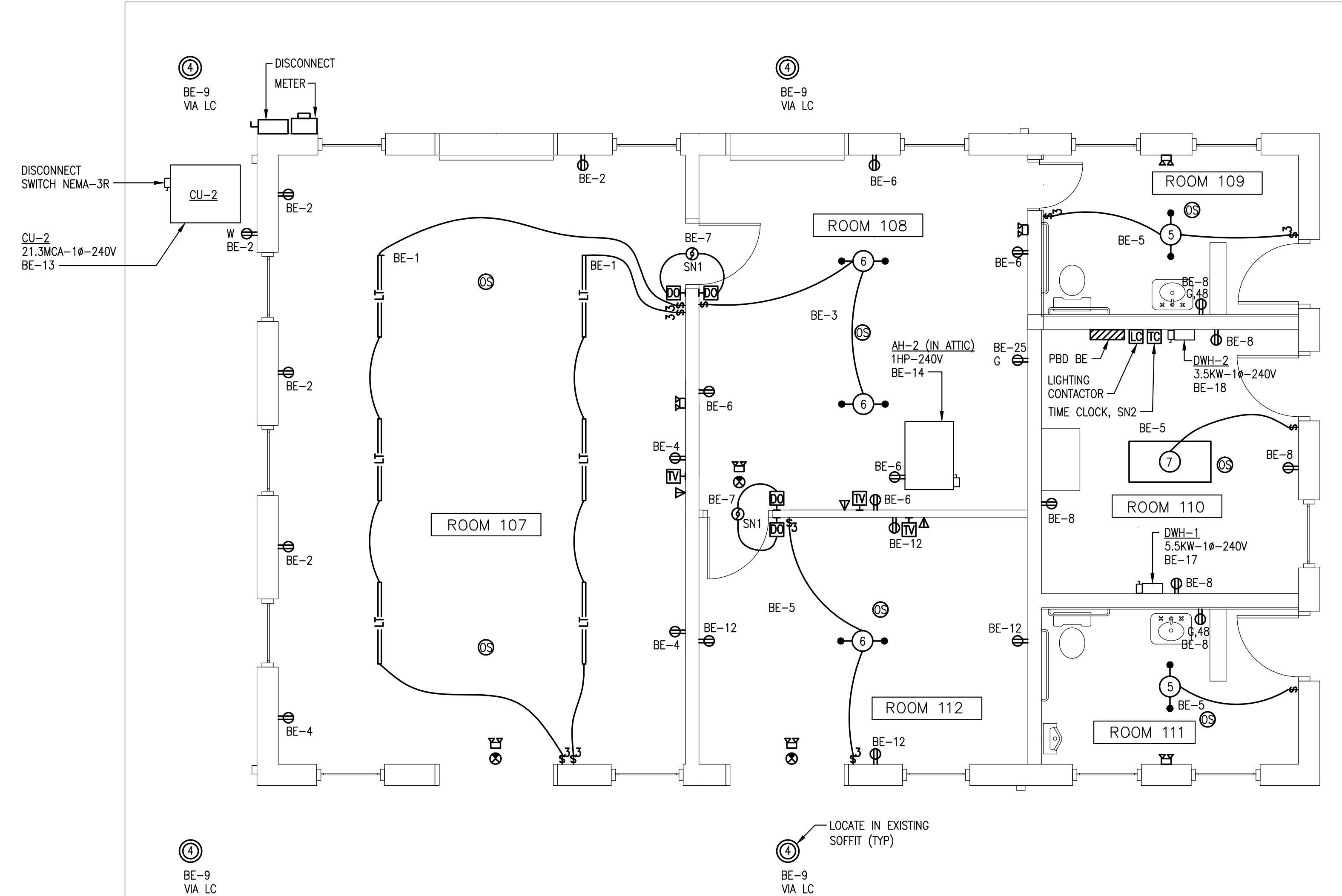


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PROJECT ENGINEER: BSM
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BAGGAGE AND
EXPRESS BUILDING
ELECTRICAL PLAN

E102



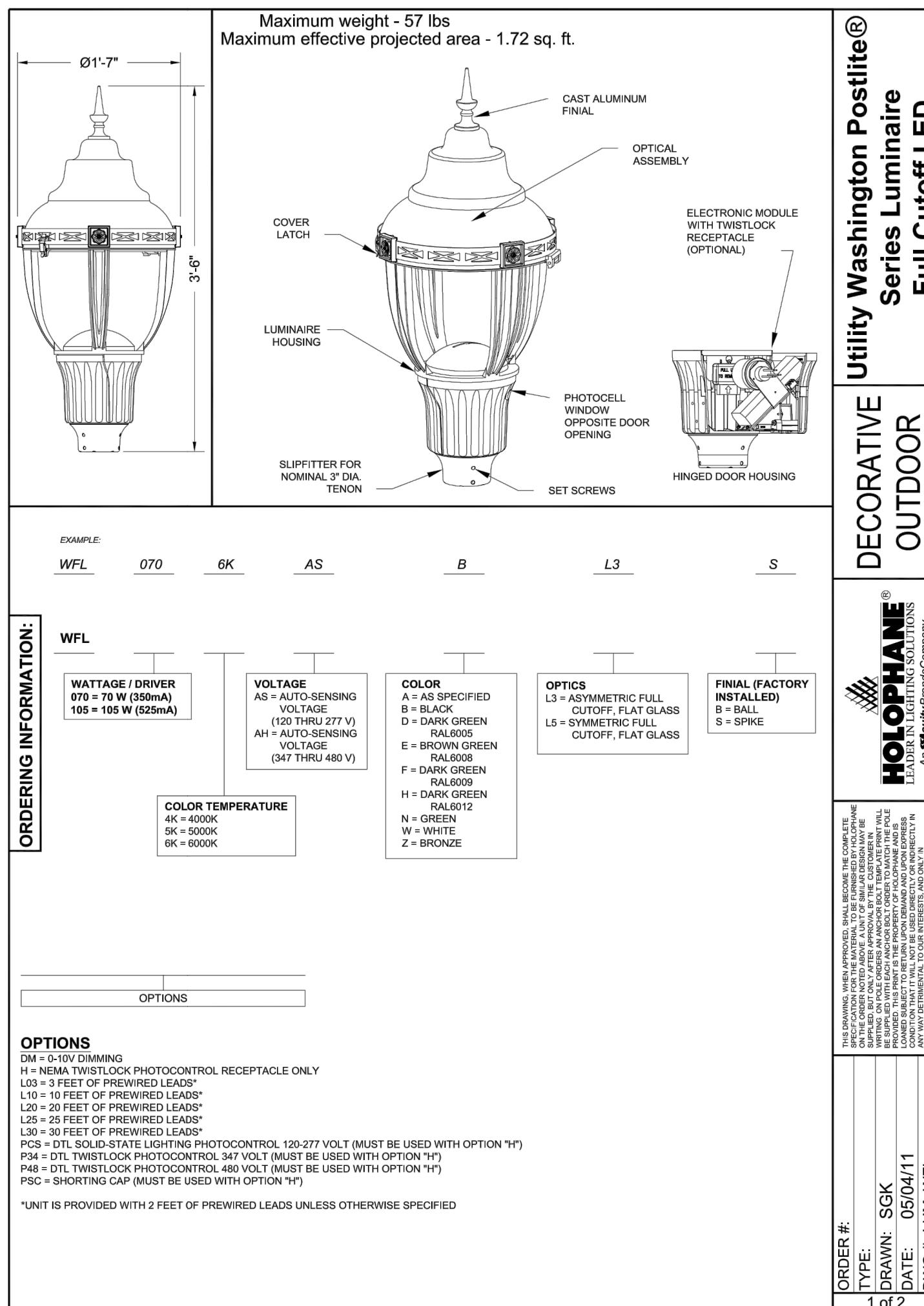
BAGGAGE AND EXPRESS BUILDING ELECTRICAL PLAN

ELECTRICAL SHEET NOTES:

SN1 DOOR OPERATOR. PROVIDE ALL REQUIRED WIRING AND CONNECTIONS FOR PUSH BUTTONS AND MOTOR.
SN2 TIMECLOCK, TORK # 7122ZL, 208-277V, SPDT, RESERVE POWER & NORYL
INDOOR/OUTDOOR ENCLOSURE. UTILIZE CIRCUIT BE-9 FOR TIMECLOCK POWER.

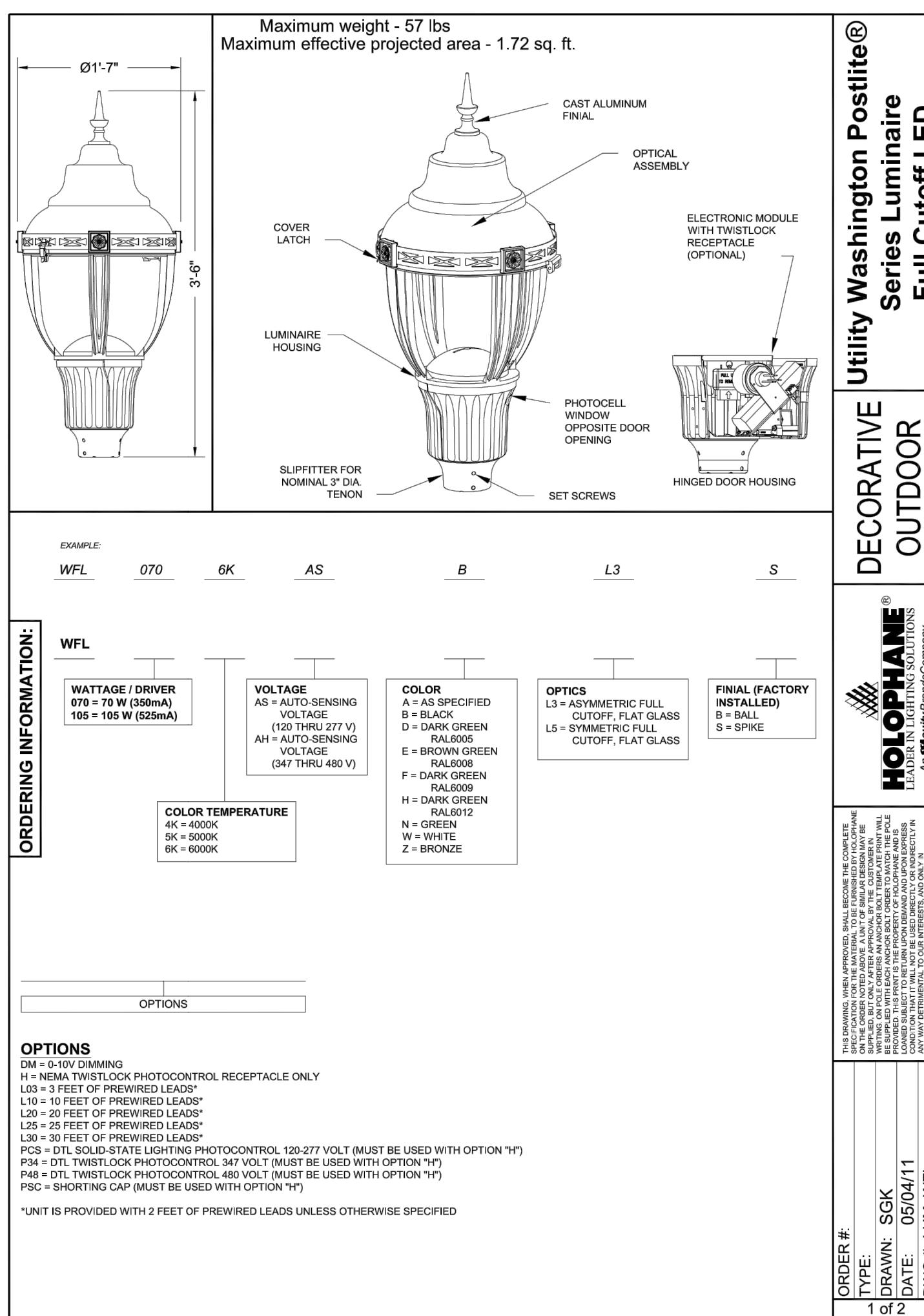
1/4" = 1'-0" 4' 2' 0' 2' 4' 6' 8'

Fixture Type 10

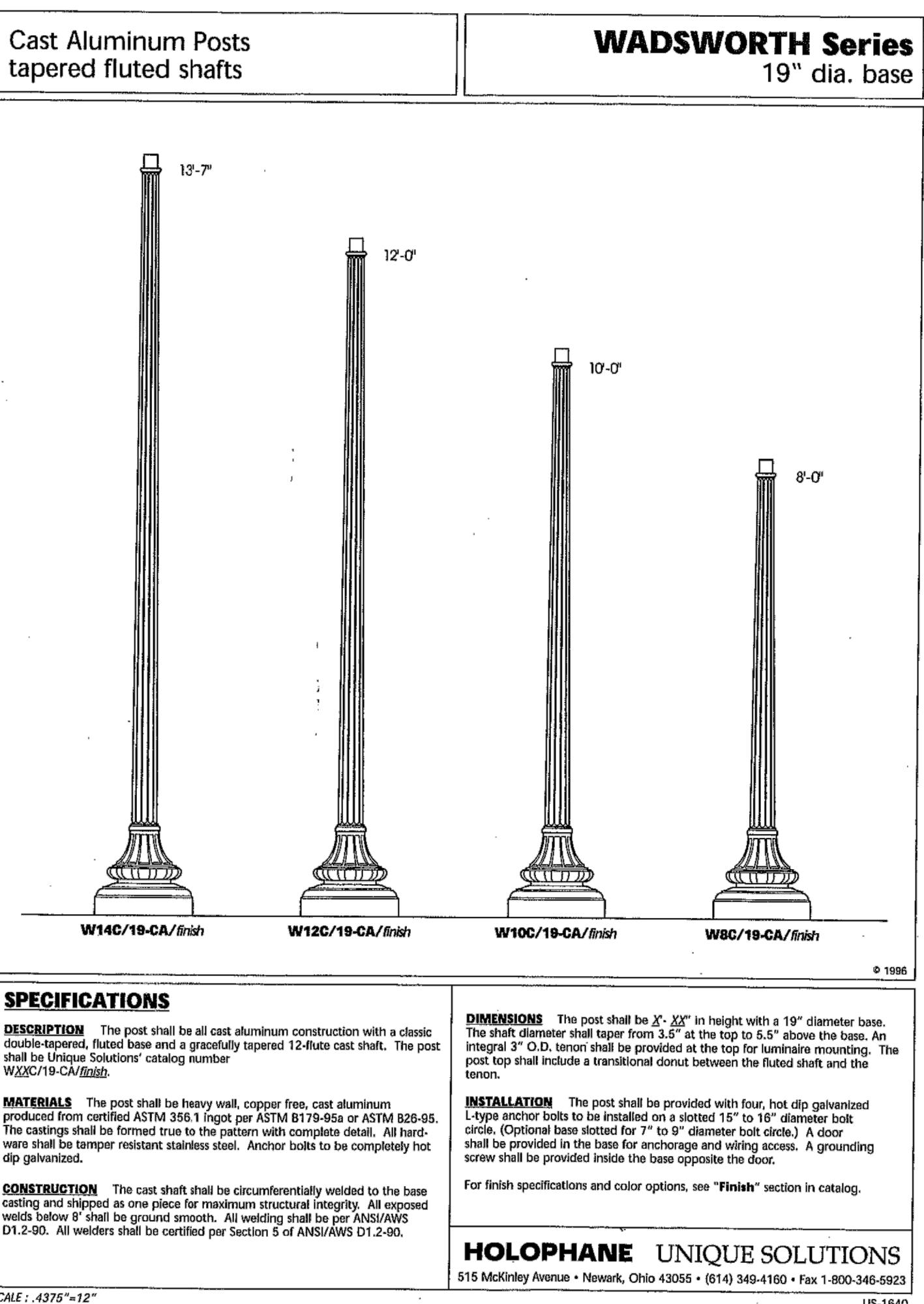


WFL 105 5K ASXL 5X

Fixture Type 11

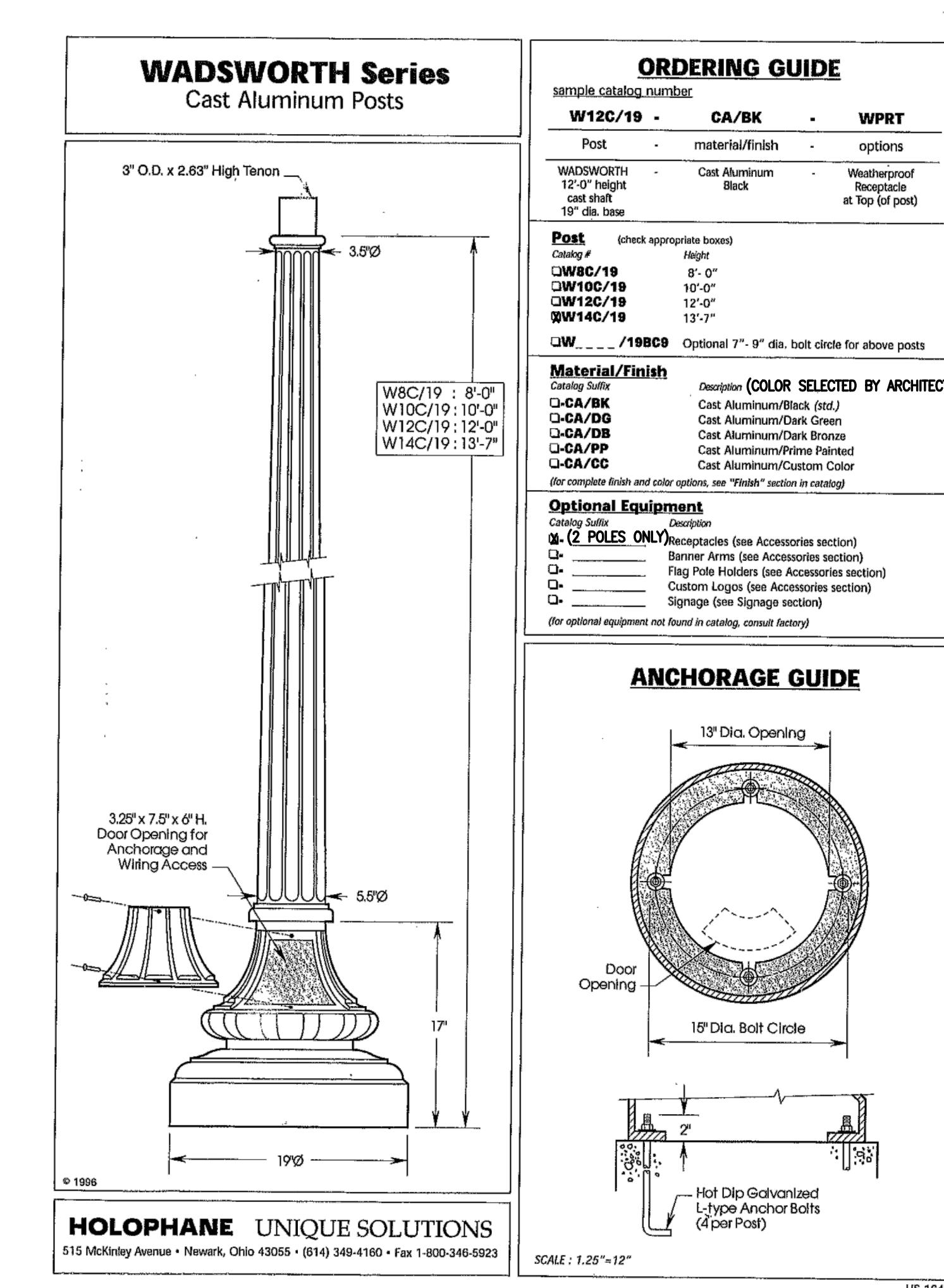


POLE FOR TYPES 10 & 11

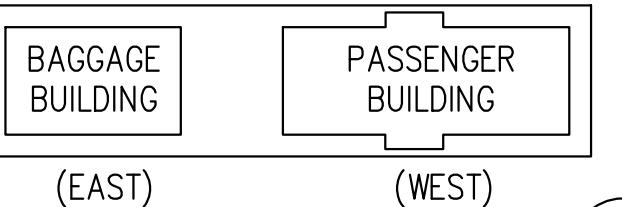


W14C/19

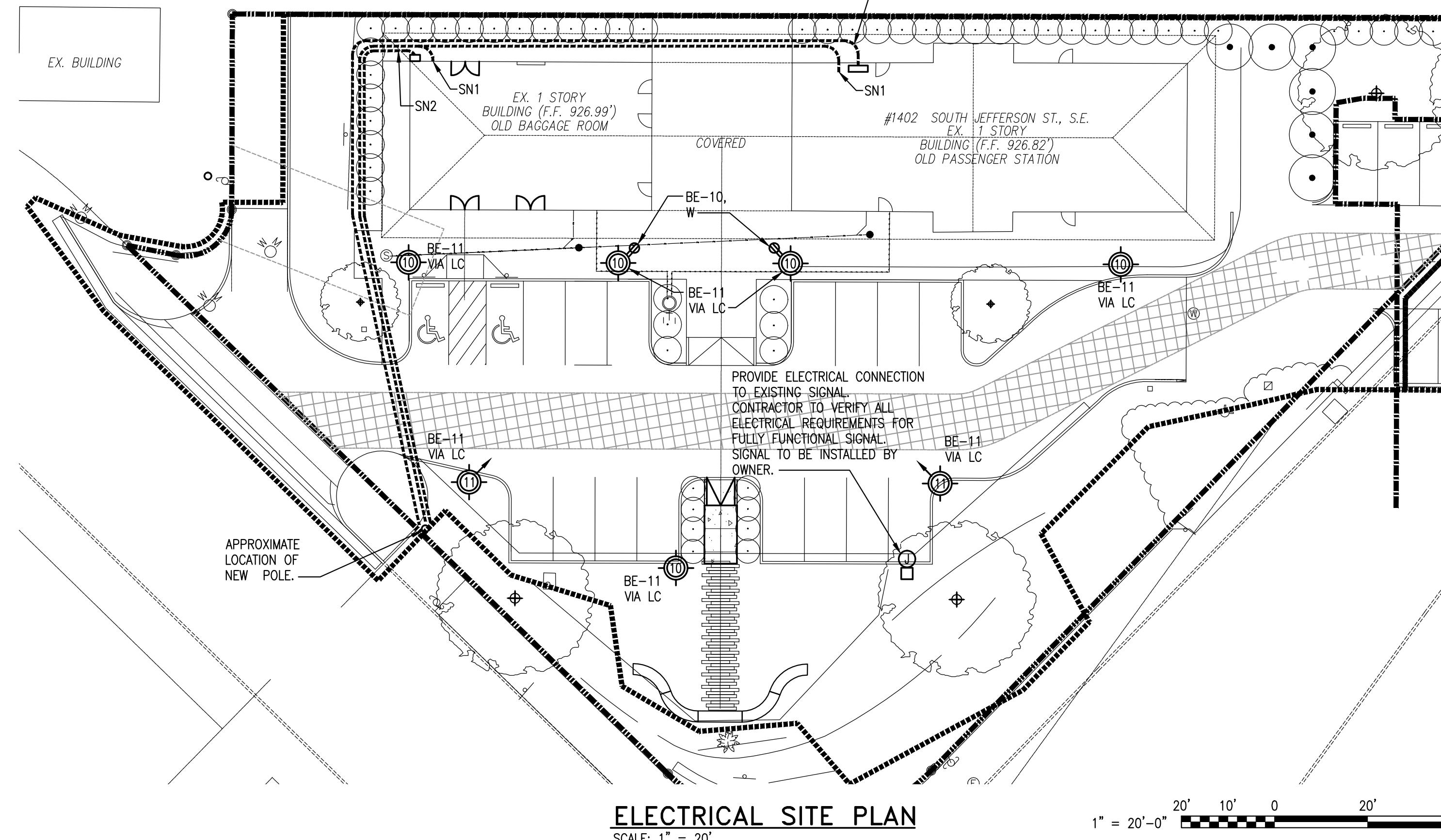
POLE FOR TYPES 10 & 11



GENERAL NOTES



 RTH



ELECTRICAL SITE PLAN

$1'' = 20' - 0''$



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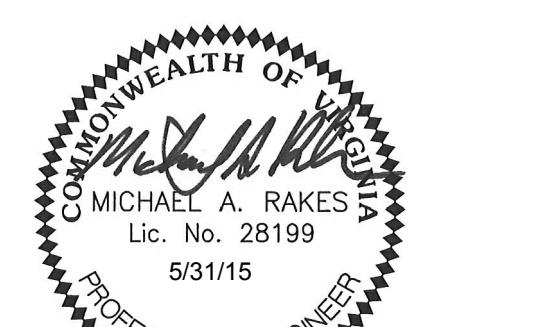


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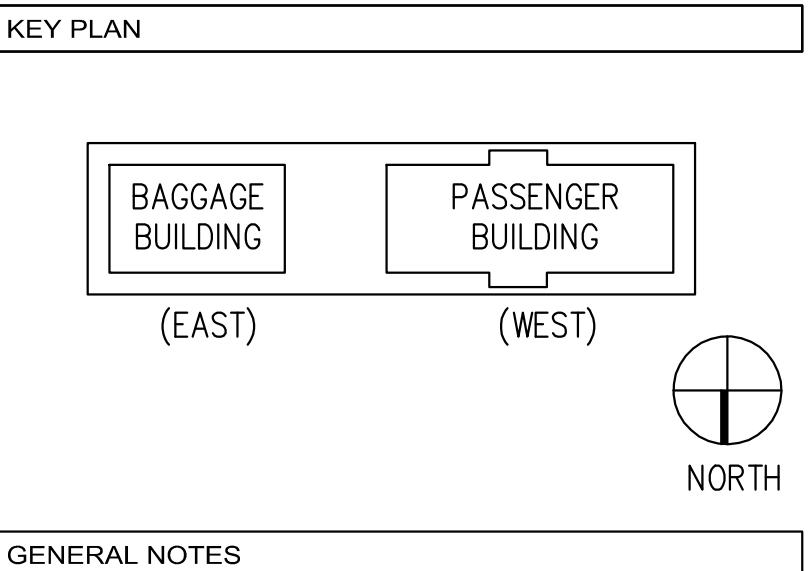
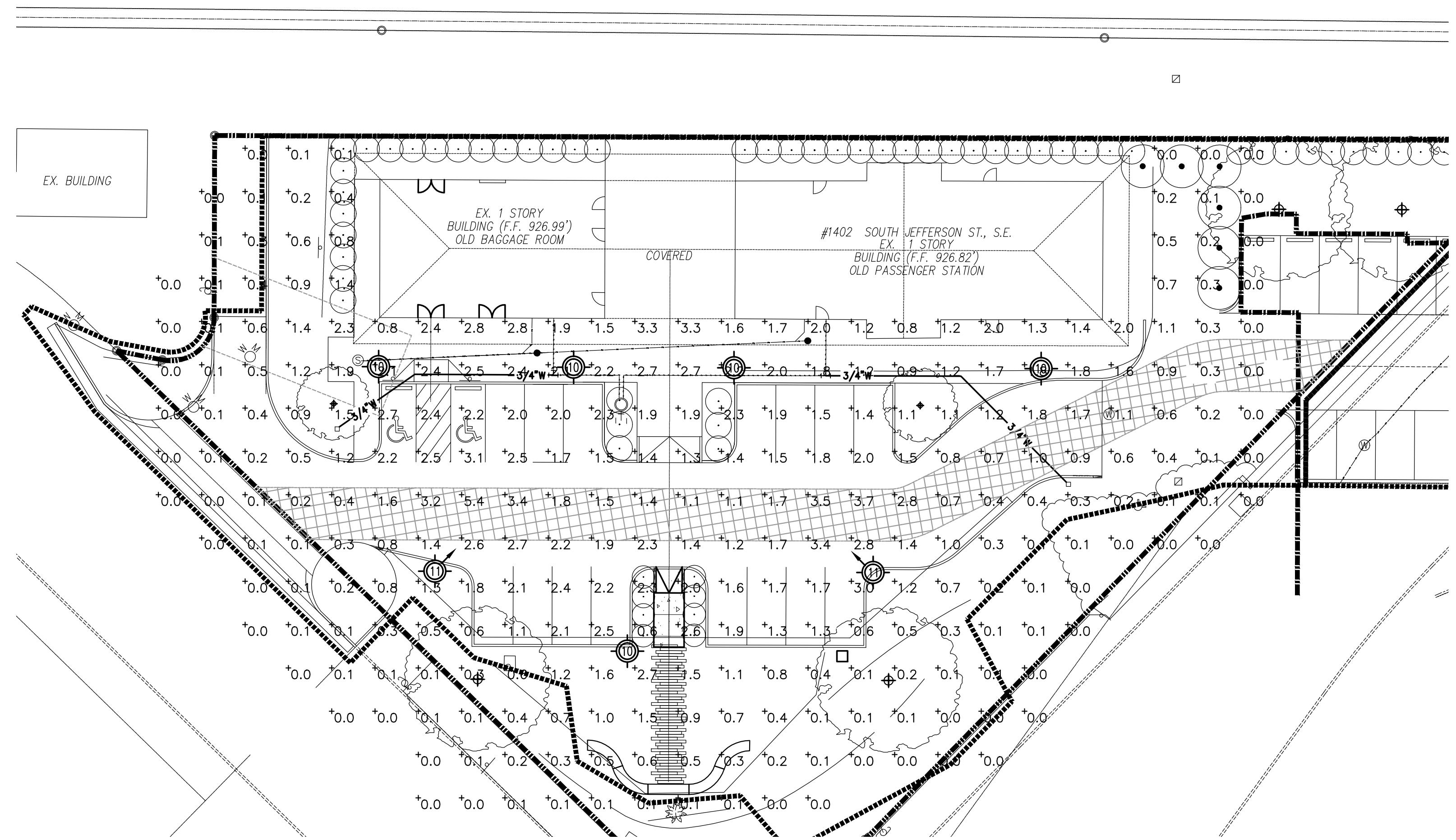


DATE 31 MAY 2015
DESIGN ARCHITECT BAR
PROJECT ARCHITECT BAR
PROJECT ENGINEER BSM
CHECKED BY CAM
DRAWN BY BSM

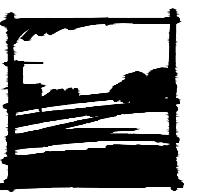
HEET TITLE

ELECTRICAL SITE PLAN

E201

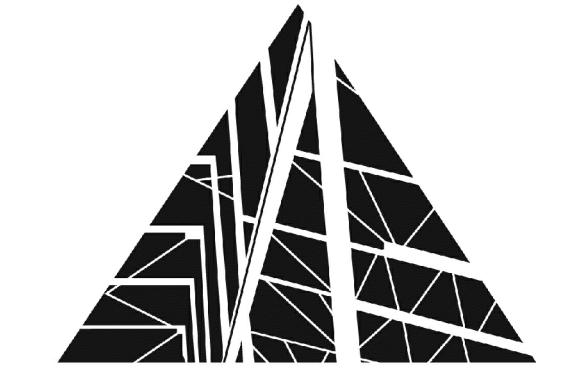


GENERAL NOTES



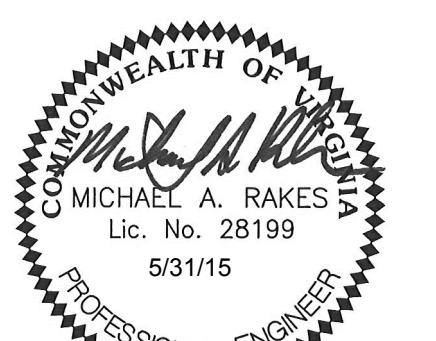
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SHEET TITLE

ELECTRICAL
SITE PLAN
PHOTOMETRICS

E301

1" = 20'-0" 20' 10' 0' 20' 40'