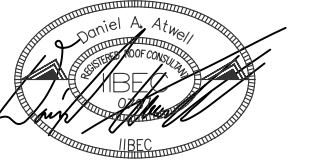


LANDER UNIVERSITY
LAURA LANDER HALL & UNIVERSITY PLACE
STUDENT HOUSING ROOF REPLACEMENTS
WMBE PROJECT NUMBER: 2025-51



DESIGNED: DANIEL ATWELL

LANDER UNIVERSITY
LAURA LANDER HALL & UNIVERSITY PLACE
STUDENT HOUSING ROOF REPLACEMENTS

LAURA LANDER HALL
403 DURST AVENUE W.
GREENWOOD, SC 29649

UNIVERSITY PLACE STUDENT HOUSING
320 STANLEY AVENUE
GREENWOOD, SC 29649



COLUMBIA AREA OFFICE

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EMAIL:DANIEL@WMBECONSULTANTS.COM

CHARLESTON AREA OFFICE

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MONCK'S CORNER, SOUTH CAROLINA
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PROJECT NUMBER: 2025-51

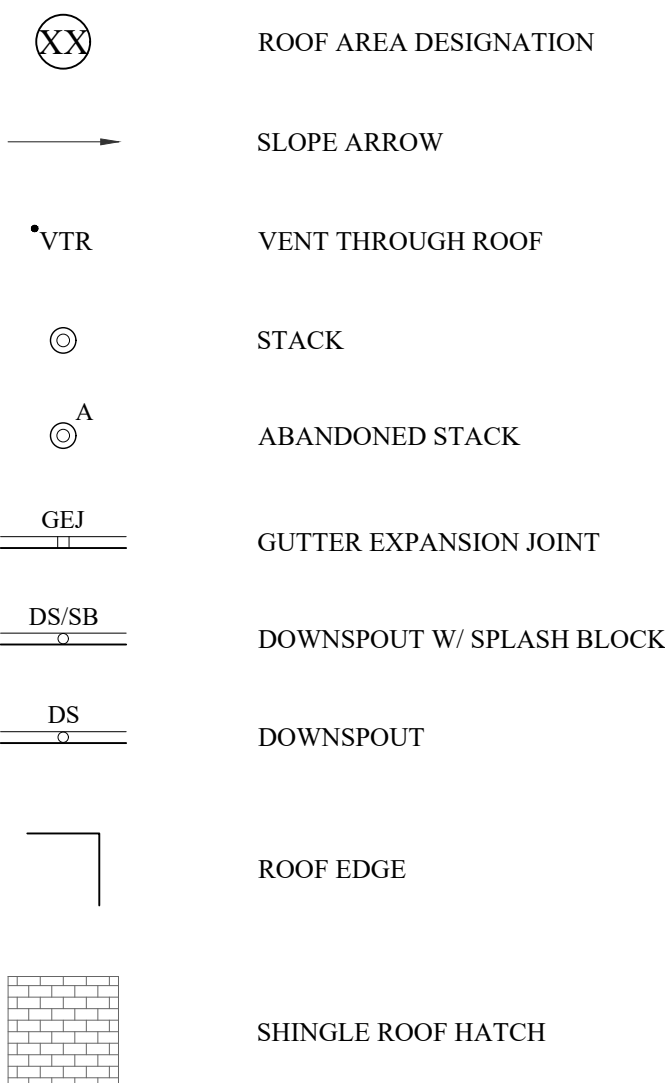
DESIGN DEVELOPMENT

DATE: 04-16-2025

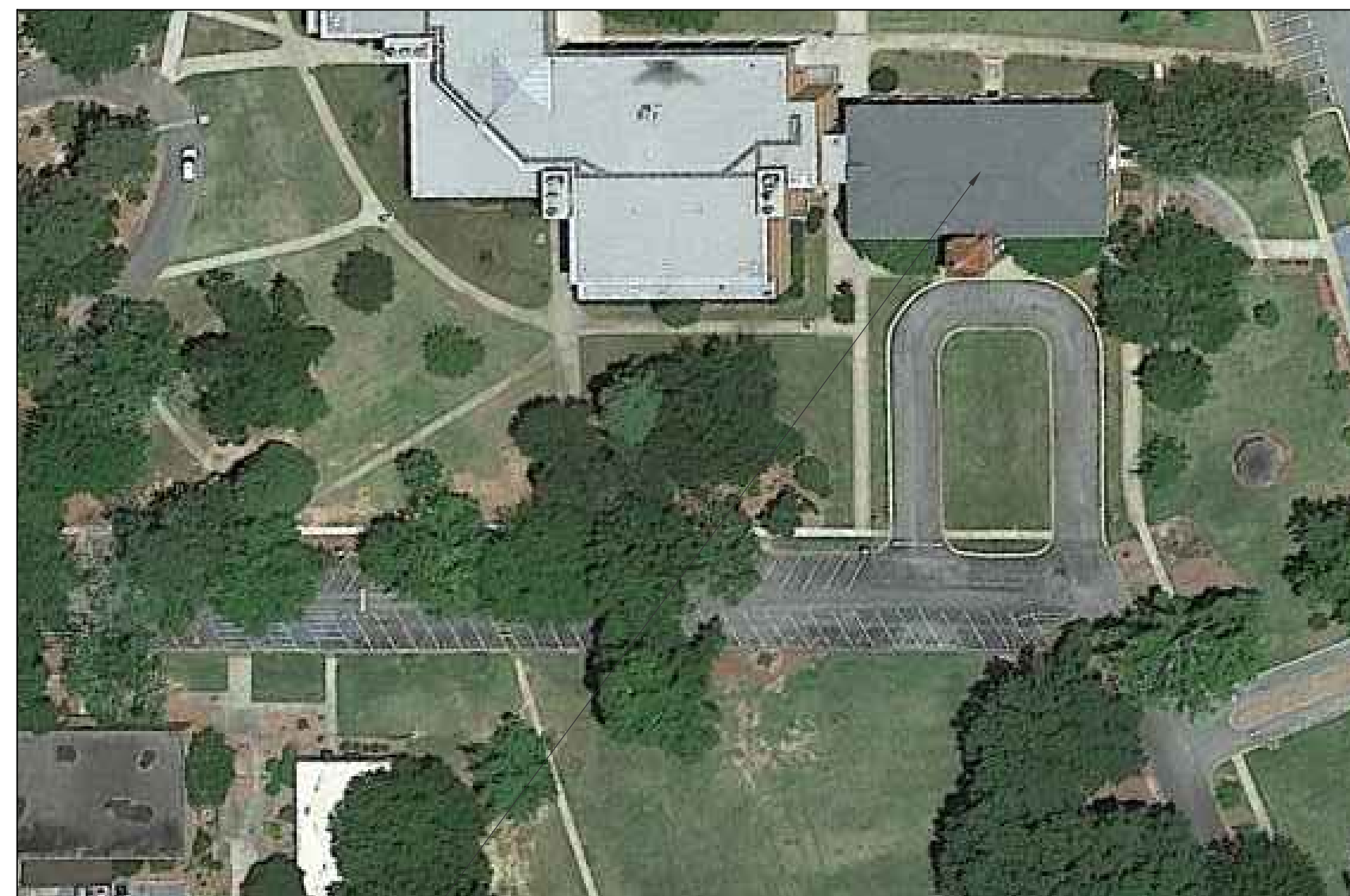
COVER SHEET

R-1.0

DRAWING LEGEND



SITE LOCATIONS



LAURA LANDER HALL
403 DURST AVENUE W.
GREENWOOD, SC 29649

LAURA LANDER HALL
FACILITY MAP



LAURA LANDER HALL
403 DURST AVENUE W.
GREENWOOD, SC 29649

LAURA LANDER HALL
LOCATION MAP



CODE/INDUSTRY STANDARD

REFERENCES

2021 IBC
2021 IEBC
2009 IECC
NRCA - LATEST EDITION
SMACNA - LATEST EDITION

WIND UPLIFT

SEE SPECIFICATIONS

SEISMIC REQUIREMENTS - IEBC

DRAWING SHEETS

- R-1.0 COVER SHEET
- R-1.1 LAURA LANDER HALL EXISTING ROOF PLAN (BASE BID)
- R-1.2 LAURA LANDER HALL NEW ROOF PLAN (BASE BID)
- R-1.3 UNIVERSITY PLACE EXISTING ROOF PLANS (ALTERNATE NO. 1)
- R-1.4 UNIVERSITY PLACE NEW ROOF PLANS (ALTERNATE NO. 1)
- D-1.1 DETAILS
- D-1.2 DETAILS

ABBREVIATIONS

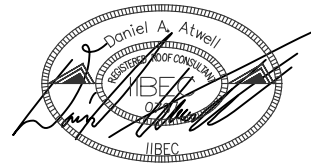
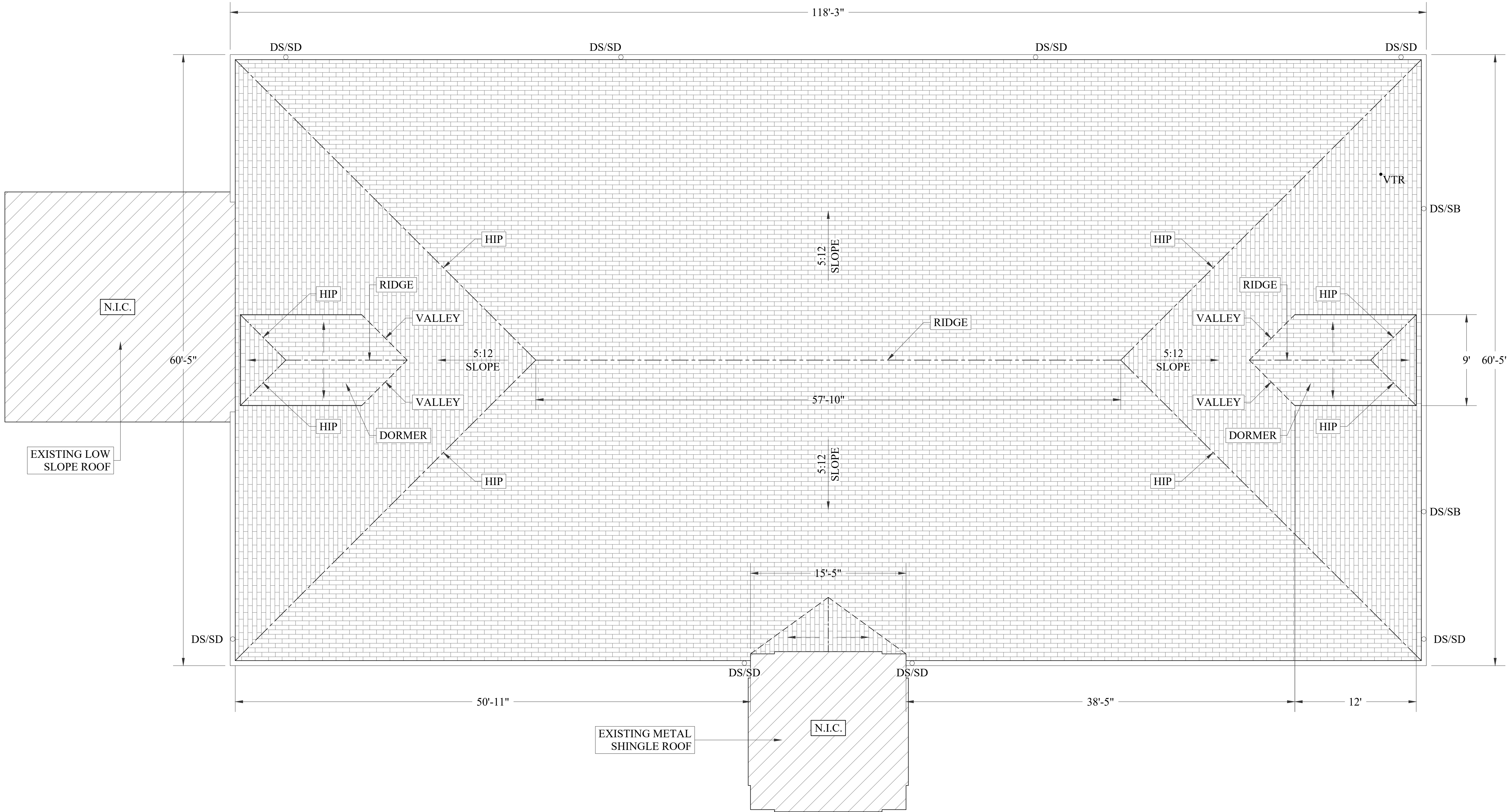
MIN	MINIMUM
MAX	MAXIMUM
NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
O.C.	ON CENTER
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION

JOB CONTACTS

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803-422-7493
DANIEL@WMBECONSULTANTS.COM

WMBE ANDREW LINDLER
803-917-7249
ANDREW@WMBECONSULTANTS.COM

- NOTES:
- 1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, PENETRATIONS, AND EXISTING ROOF CORE SUMMARY.
 - 2. ROOF AREA IS APPROXIMATELY 7,750 SQ.FT.



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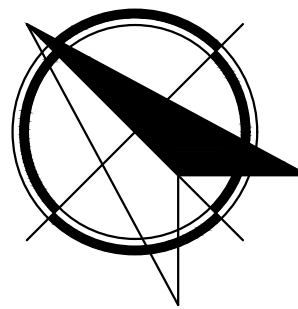


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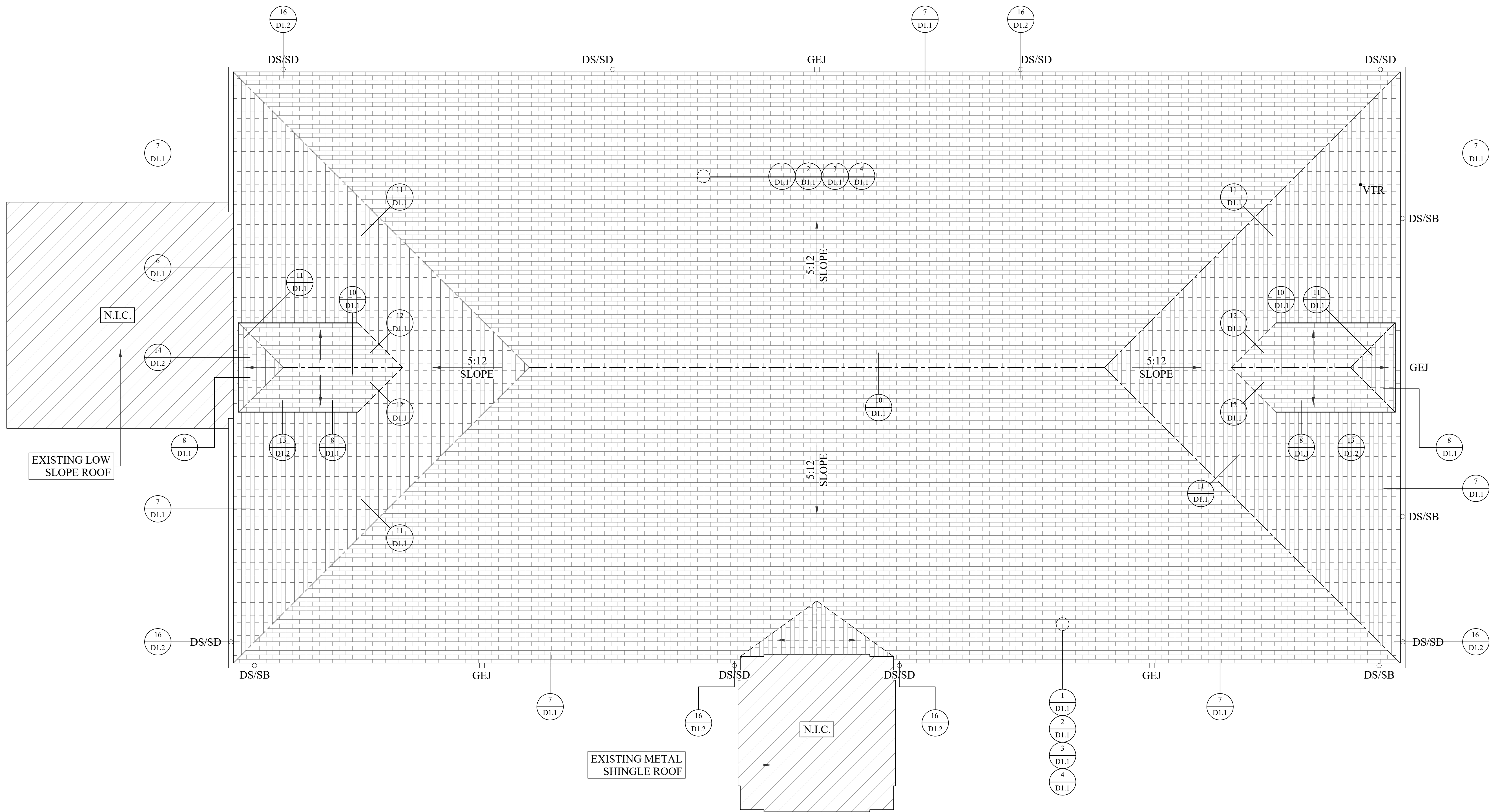
PROJECT NUMBER: 2025-51

DESIGN DEVELOPMENT

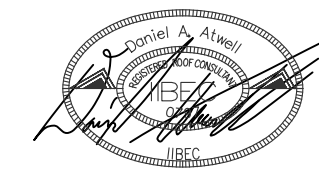
DATE: 04-16-2025

LAURA LANDER HALL
EXISTING ROOF PLAN
(BASE BID)

R-1.1



1
R-1.2
LAURA LANDER HALL NEW ROOF PLAN (BASE BID)
1/8" = 1'-0"



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STUDENT HOUSING ROOF REPLACEMENTS

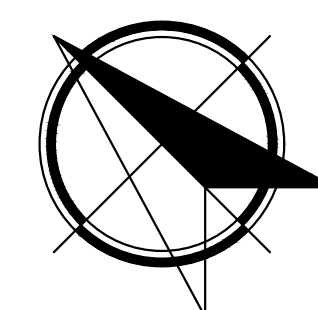
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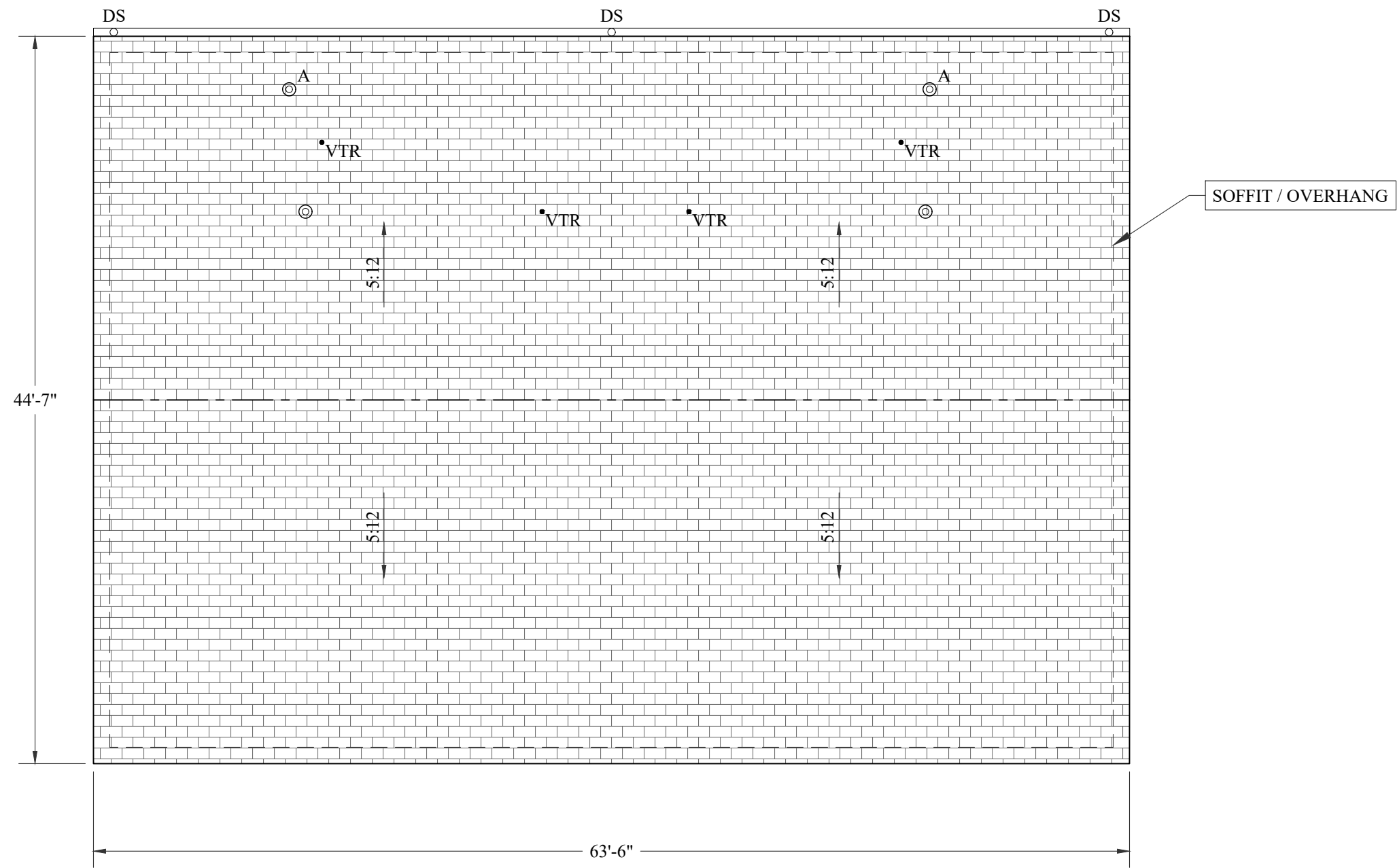
DESIGN DEVELOPMENT

DATE: 04-16-2025

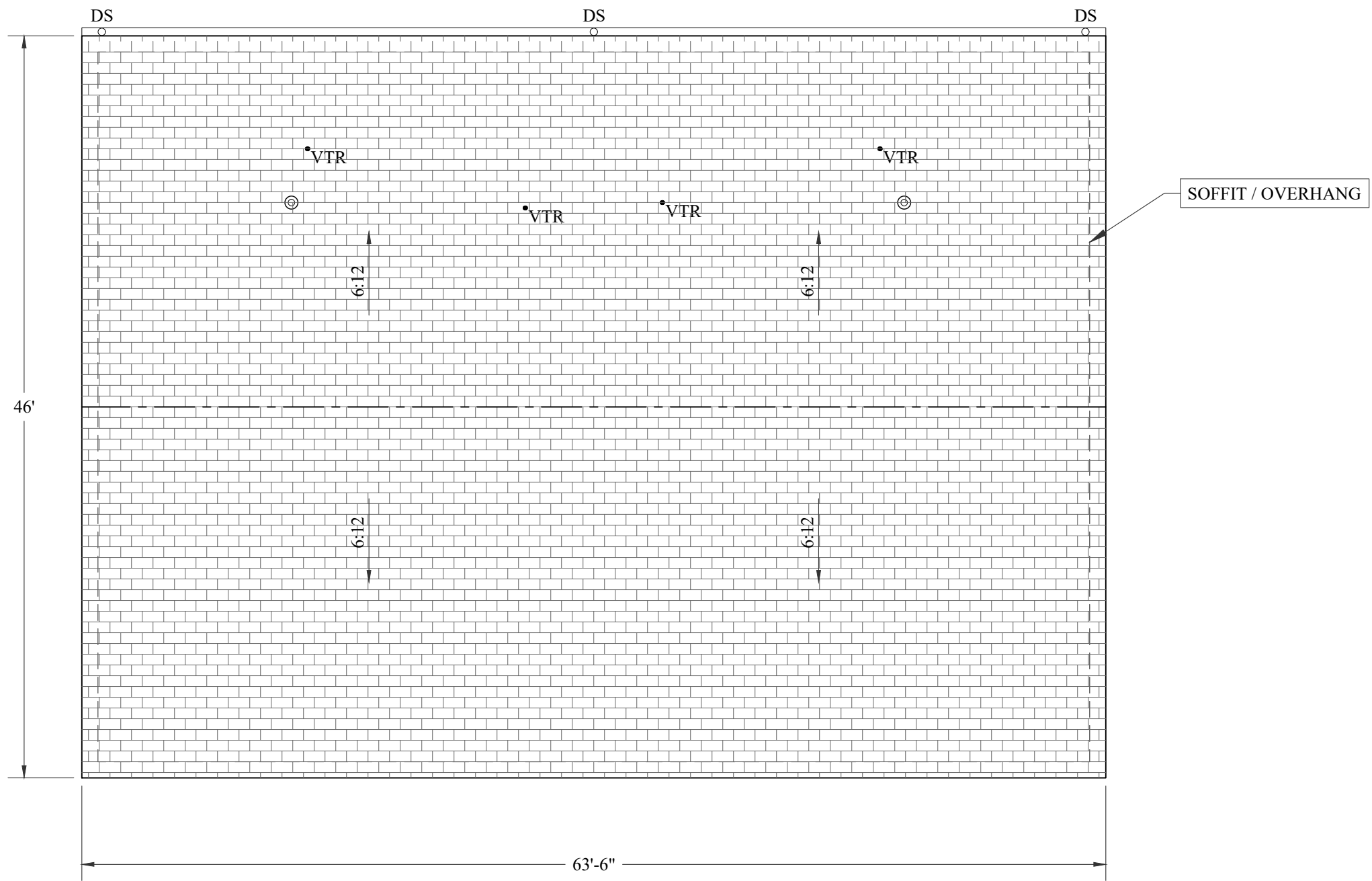
LAURA LANDER HALL
NEW ROOF PLAN (BASE
BID)

R-1.2

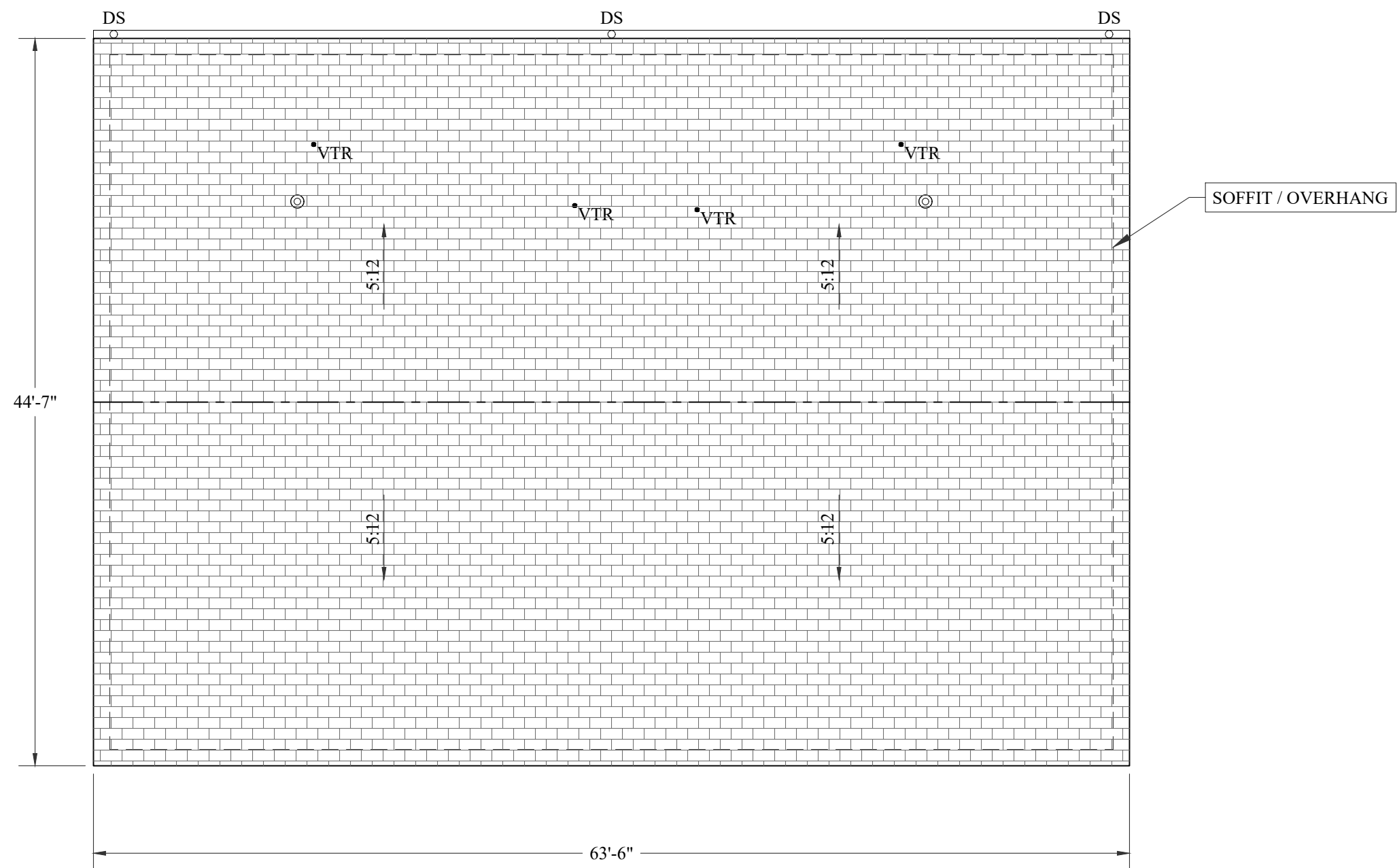
- NOTES:
1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, PENETRATIONS, AND EXISTING ROOF CORE SUMMARY.
 2. ROOF AREA FOR BUILDING 105 IS APPROXIMATELY 3,150 SQ.FT.
 3. ROOF AREA FOR BUILDING 107 IS APPROXIMATELY 3,350 SQ.FT.
 4. ROOF AREA FOR BUILDING 109 IS APPROXIMATELY 3,150 SQ.FT.
 5. ROOF AREA FOR BUILDING 111 IS APPROXIMATELY 3,400 SQ.FT.



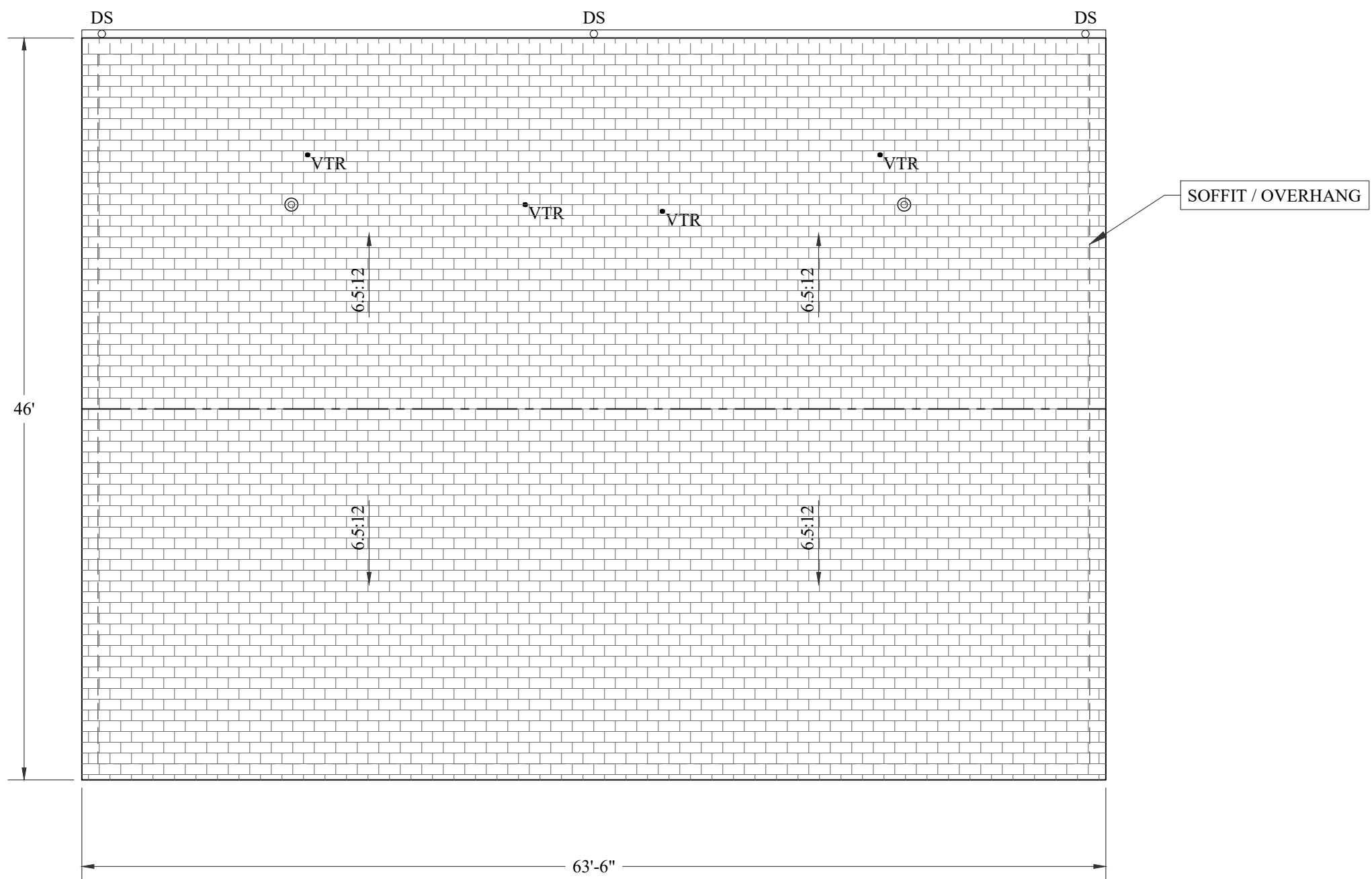
1
R-1.3 BUILDING 105
1/8" = 1'-0"



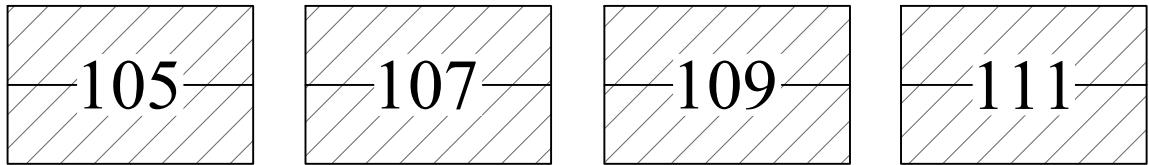
2
R-1.3 BUILDING 107
1/8" = 1'-0"



3
R-1.3 BUILDING 109
1/8" = 1'-0"

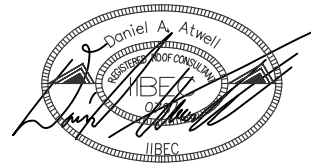


4
R-1.3 BUILDING 111
1/8" = 1'-0"



KEY PLAN

1
R-1.3 UNIVERSITY PLACE EXISTING ROOF PLANS (ALTERNATE NO. 1)
1/8" = 1'-0"



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STUDENT HOUSING ROOF REPLACEMENTS

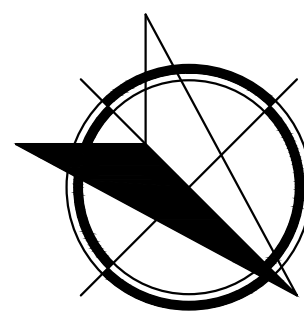
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DESIGN DEVELOPMENT

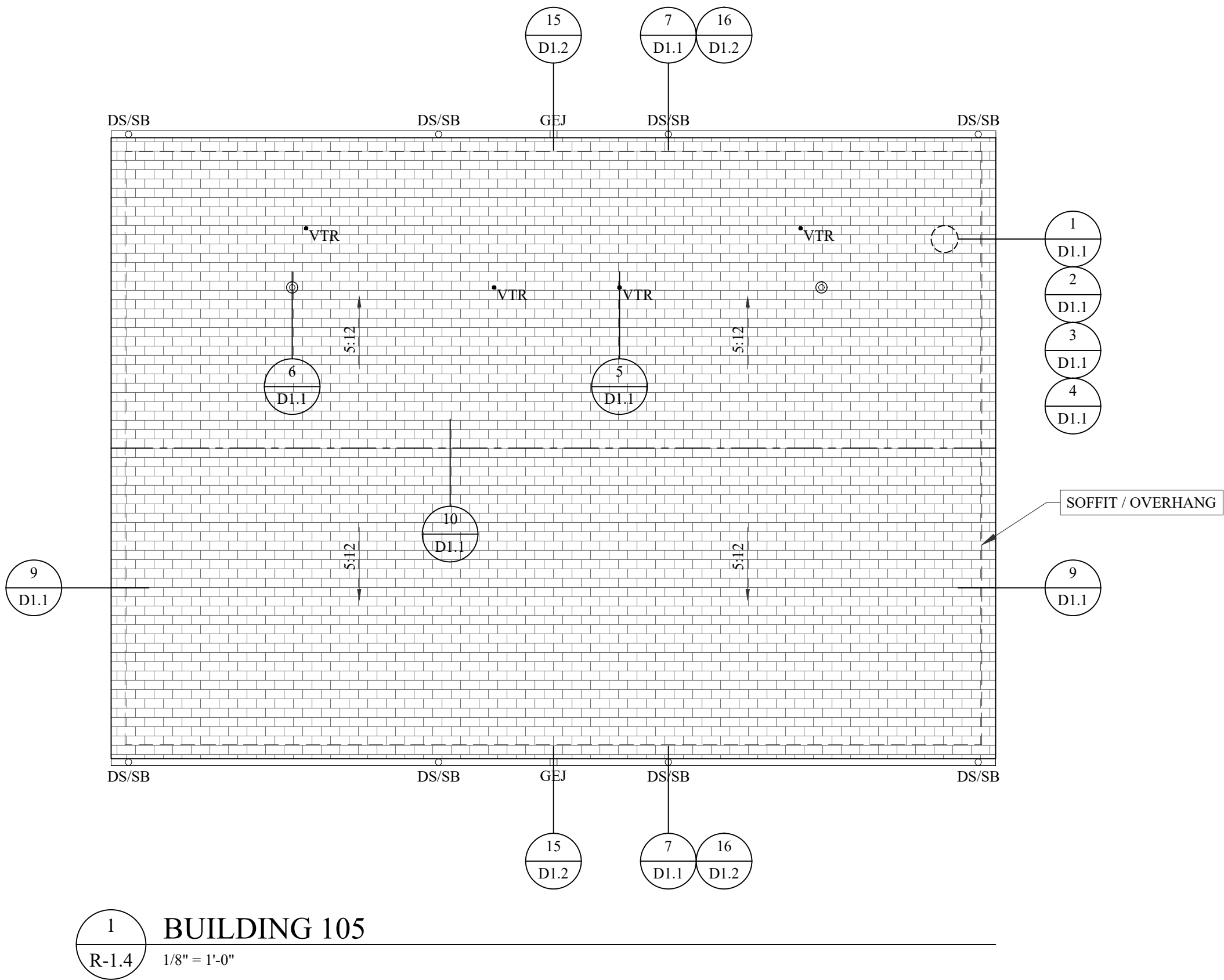
DATE: 04-16-2025

UNIVERSITY PLACE
EXISTING ROOF PLANS
(ALTERNATE NO.1)

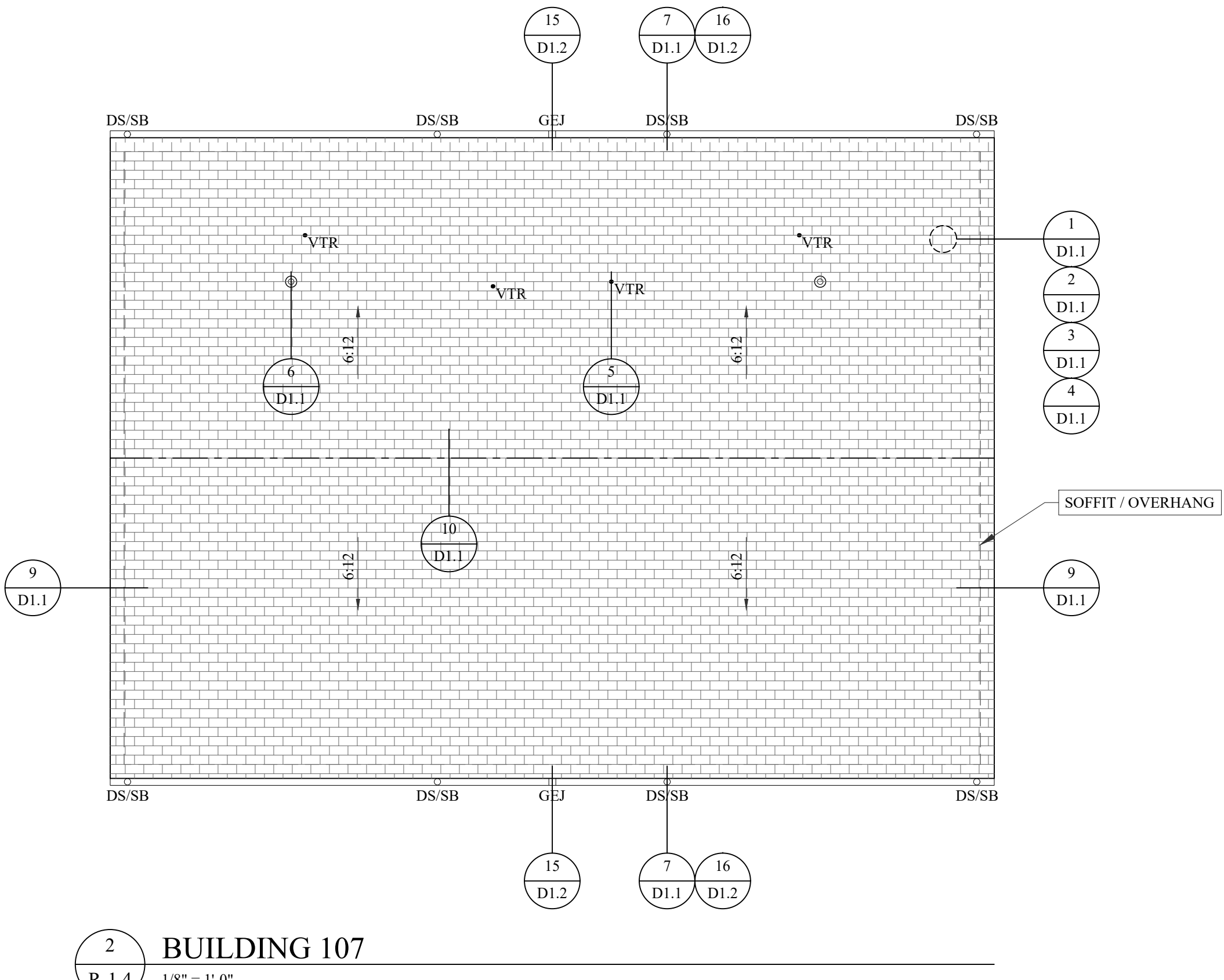
R-1.3



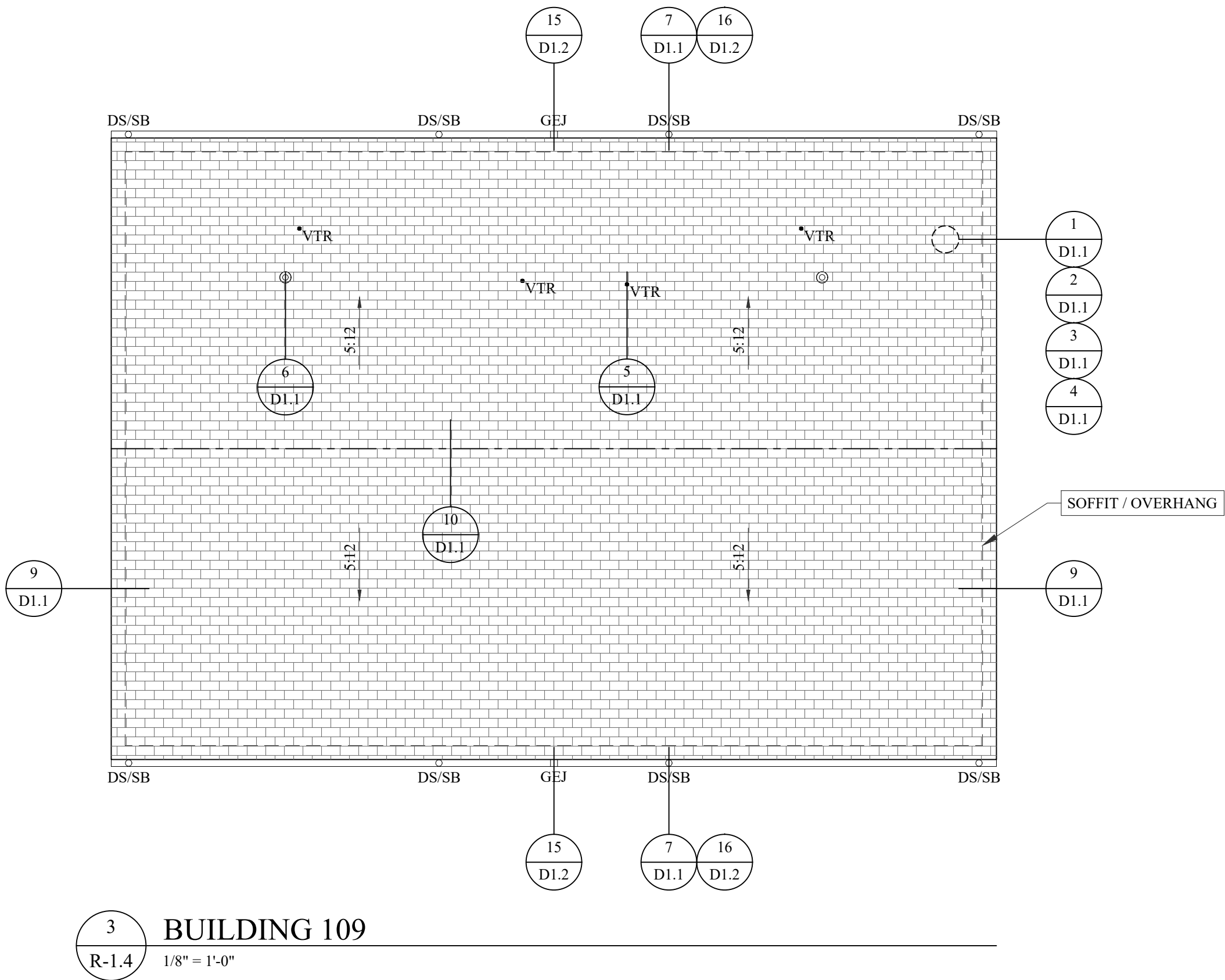
KEY PLAN



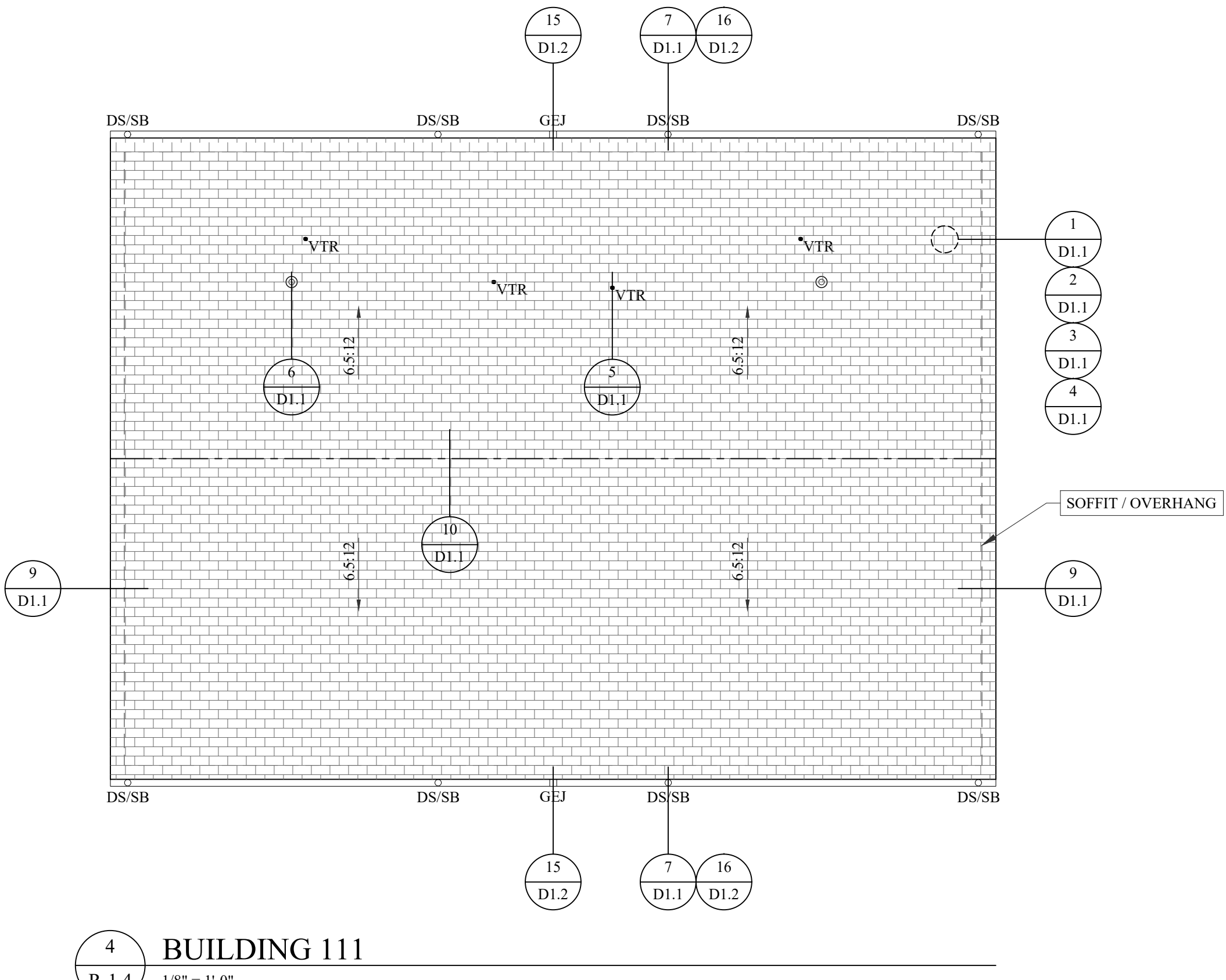
1 BUILDING 105
R-1.4 1/8" = 1'-0"



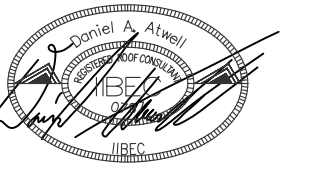
2 BUILDING 107
R-1.4 1/8" = 1'-0"



3 BUILDING 109
R-1.4 1/8" = 1'-0"



4 BUILDING 111
R-1.4 1/8" = 1'-0"



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STUDENT HOUSING ROOF REPLACEMENTS

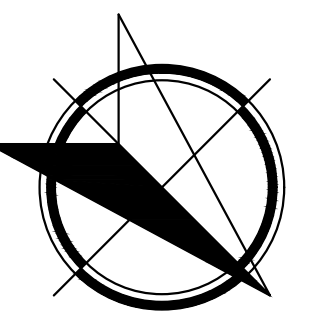
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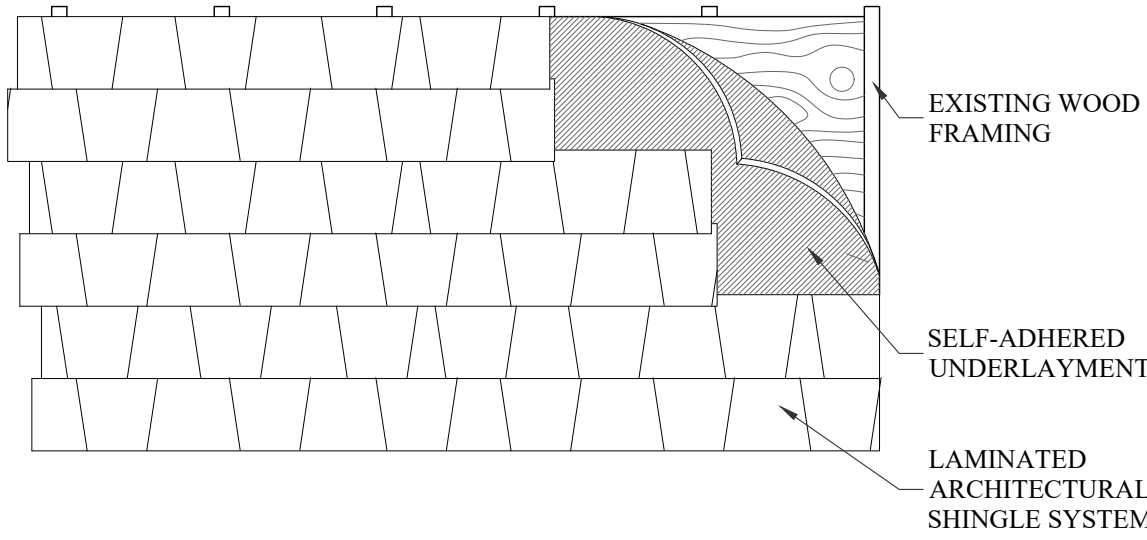


PROJECT NUMBER: 2025-51
DESIGN DEVELOPMENT
DATE: 04-16-2025

UNIVERSITY PLACE
NEW ROOF PLANS
(ALTERNATE NO.1)

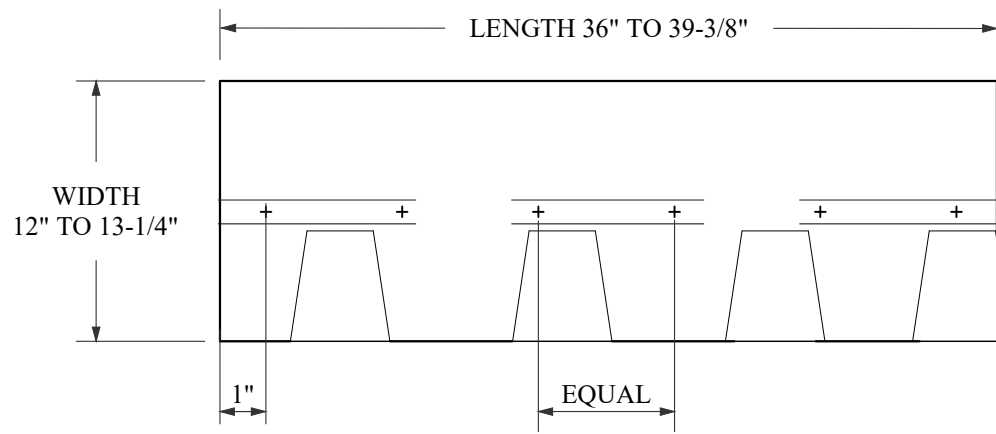
R-1.4

NOTE:
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND MATCH EXISTING CONDITIONS DURING RE-INSTALLATION OF FRAMING / SUBSTRATE / STEEP SLOPE ROOF SYSTEM.



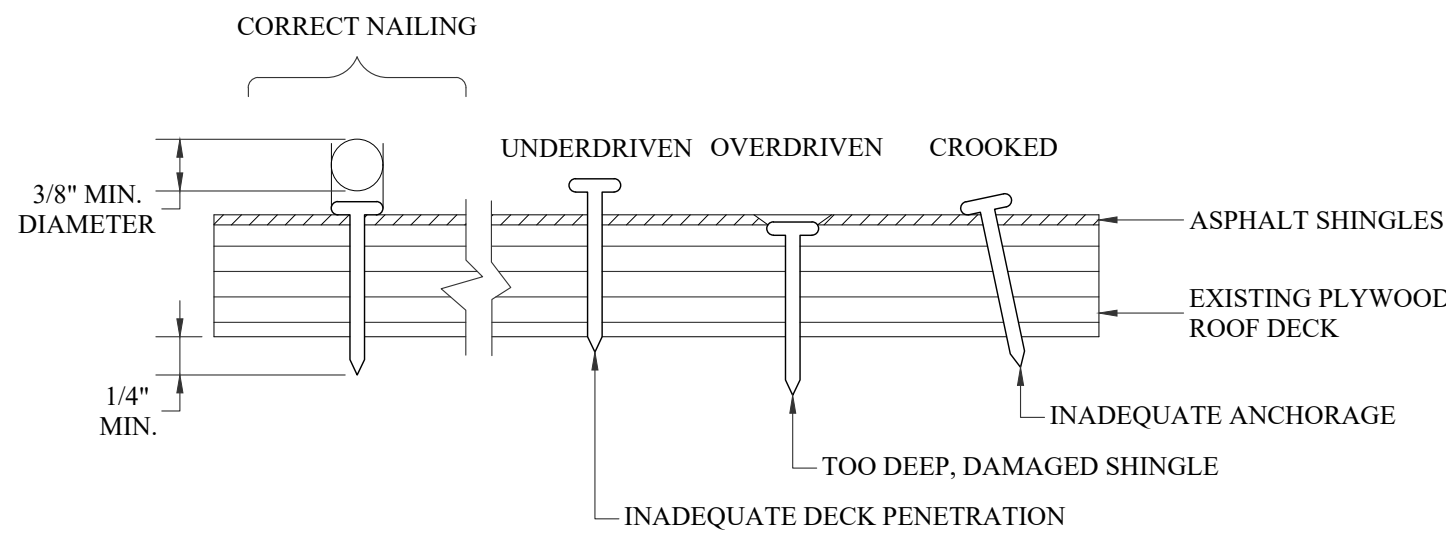
1 ARCHITECTURAL LAMINATE SHINGLE ASSEMBLY
D-1.1 N.T.S.

NOTES:
1. SIX (6) FASTENERS ARE REQUIRED TO BE INSTALLED PER SHINGLE INSTALLATION.
2. FASTENING PATTERN LAYOUT MAY VARY BASED ON MANUFACTURER REQUIREMENTS.



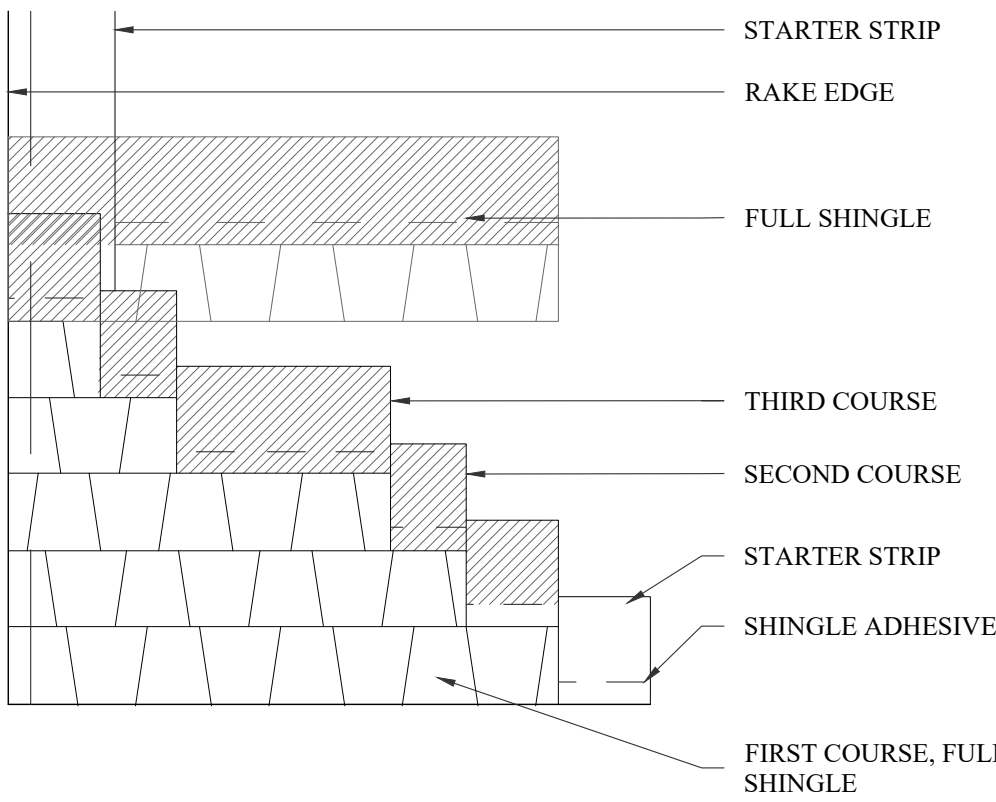
2 FASTENER LAYOUT (GENERAL)
D-1.1 N.T.S.

NOTES:
1. 3/4\"/>

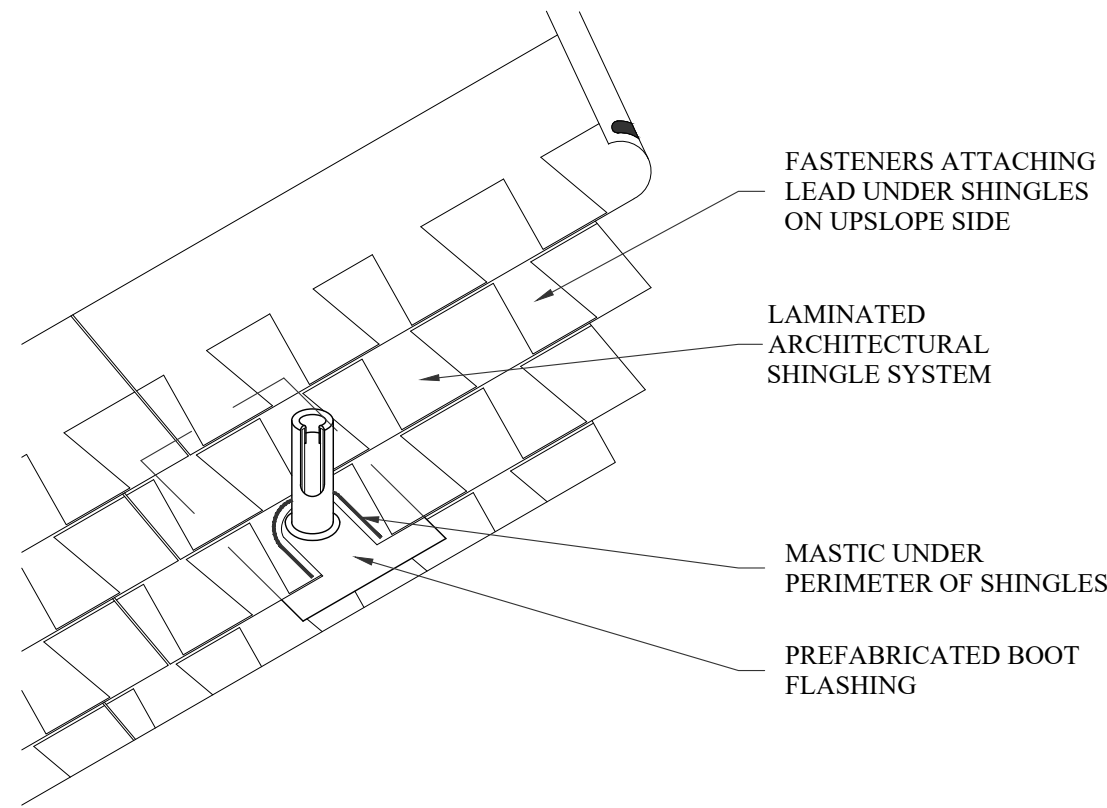


3 SHINGLE FASTENING STANDARD
D-1.1 N.T.S.

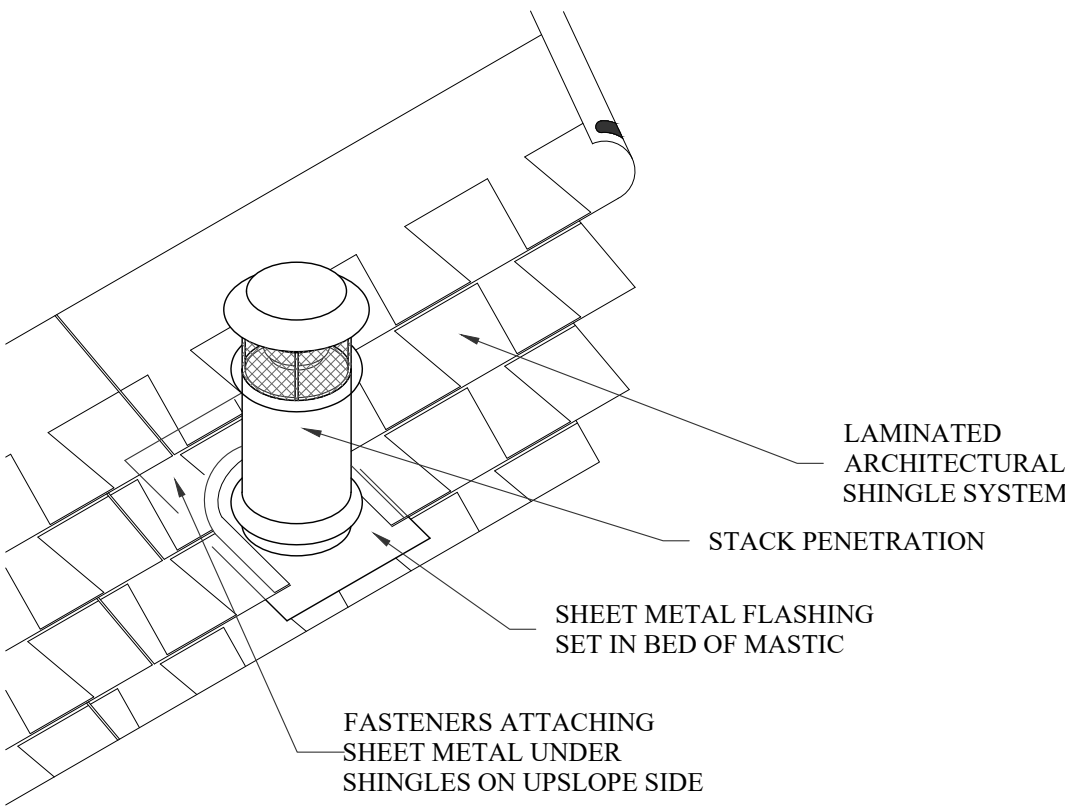
NOTES:
1. DIMENSION OF STAGGER PER MANUFACTURER REQUIREMENTS.
2. UNDERLAYMENT SYSTEM NOT SHOWN FOR CLARITY.



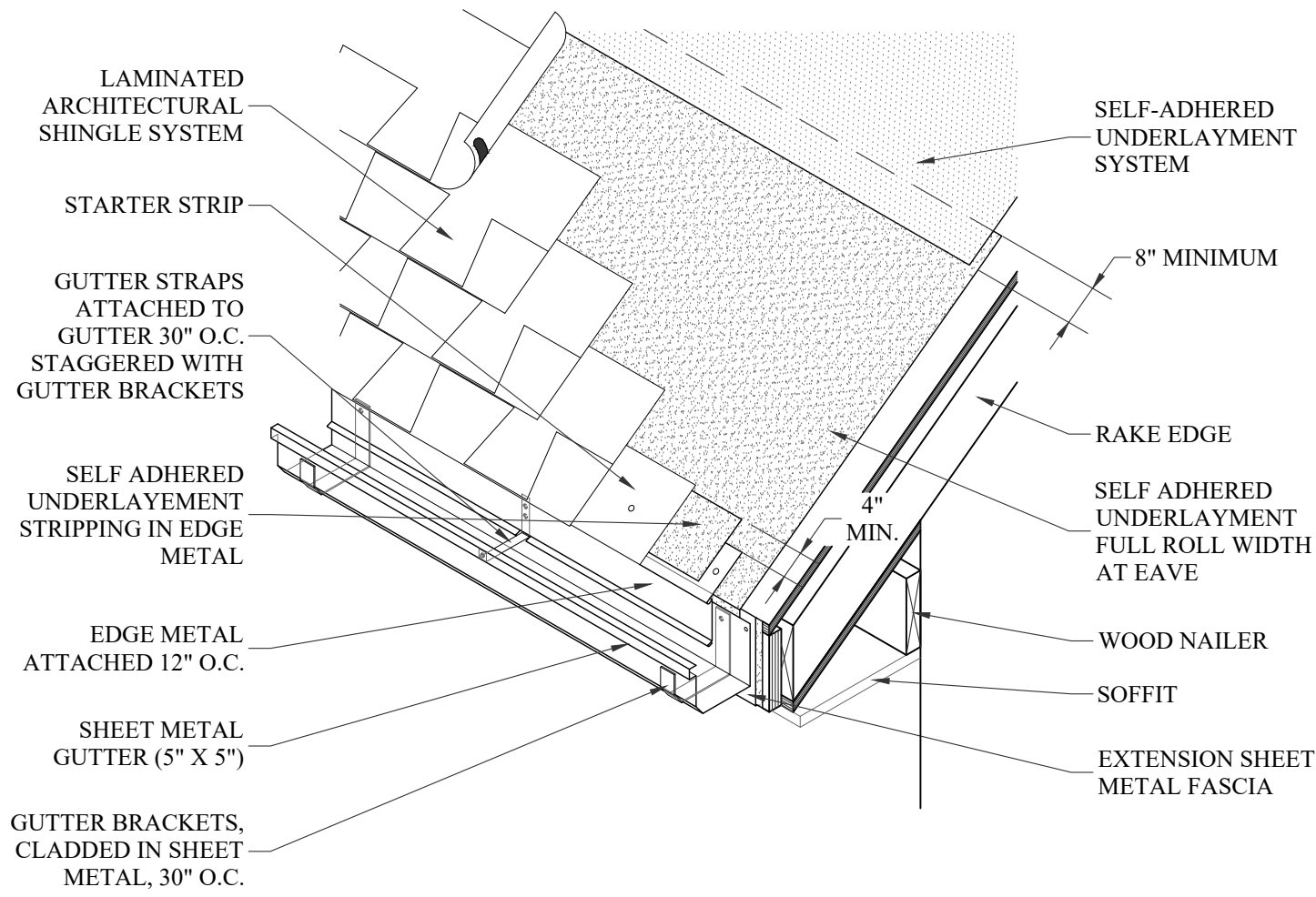
4 SHINGLE INSTALLATION
D-1.1 N.T.S.



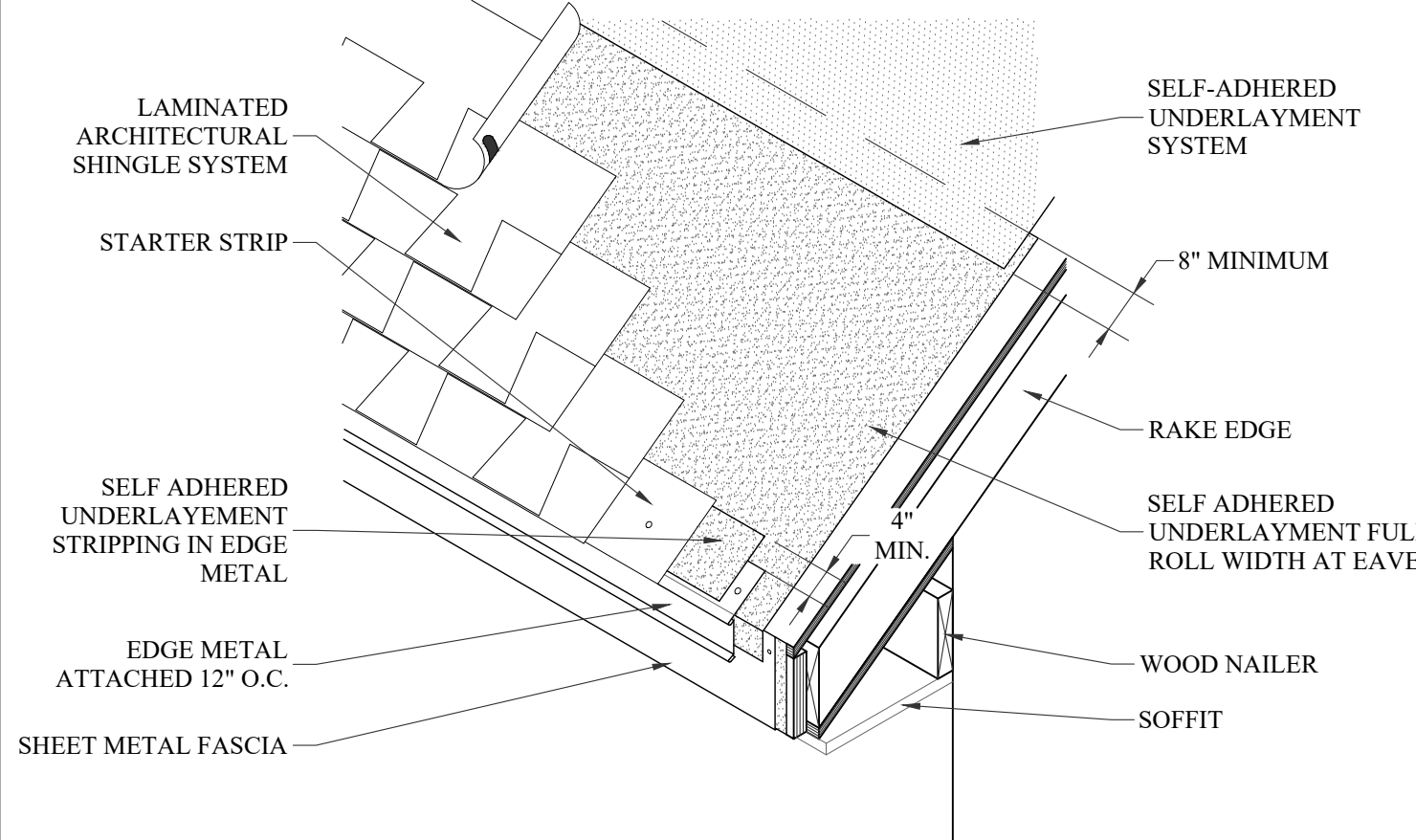
5 VENT THROUGH ROOF
D-1.1 N.T.S.



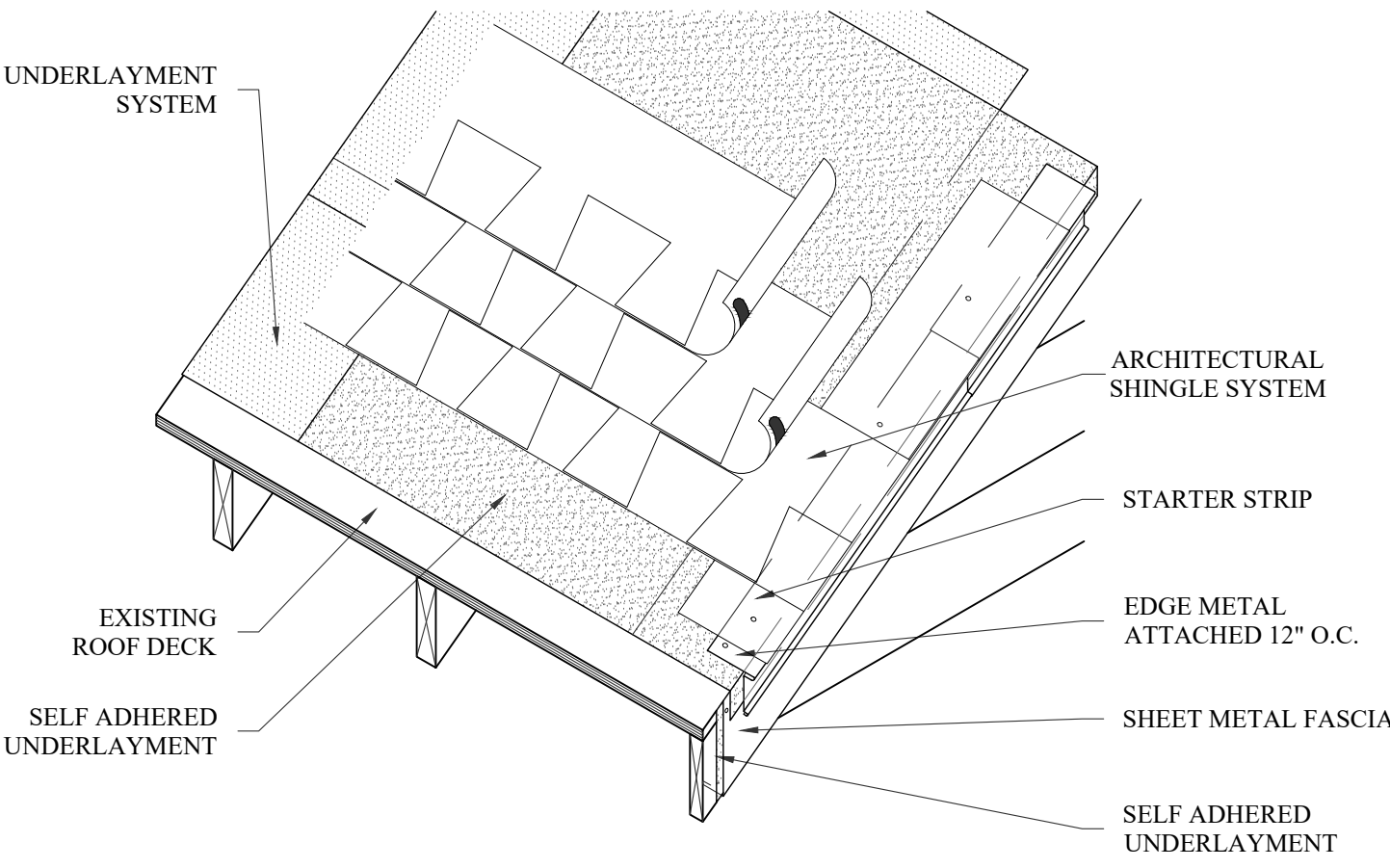
6 STACK
D-1.1 N.T.S.



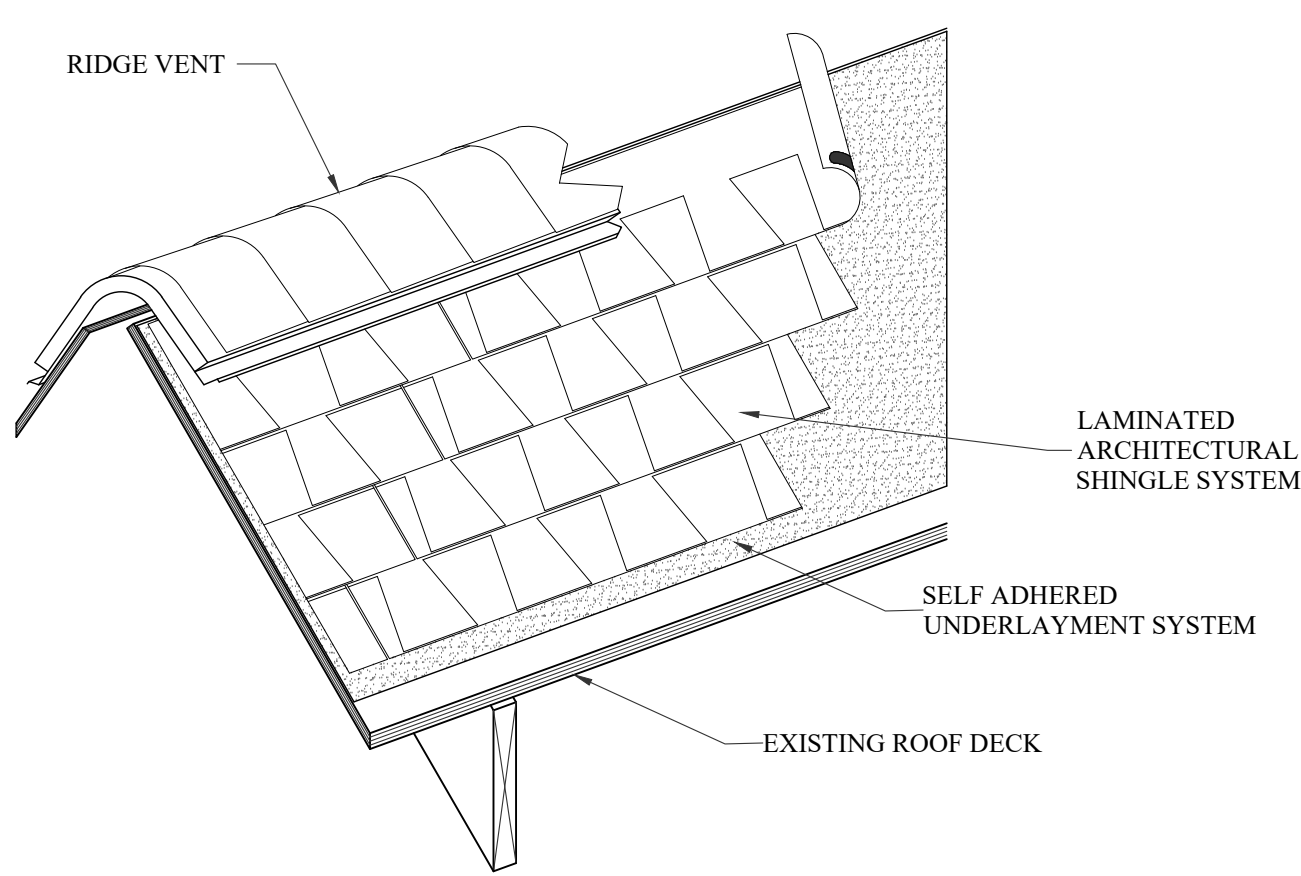
7 ROOF EDGE WITH GUTTER
D-1.1 N.T.S.



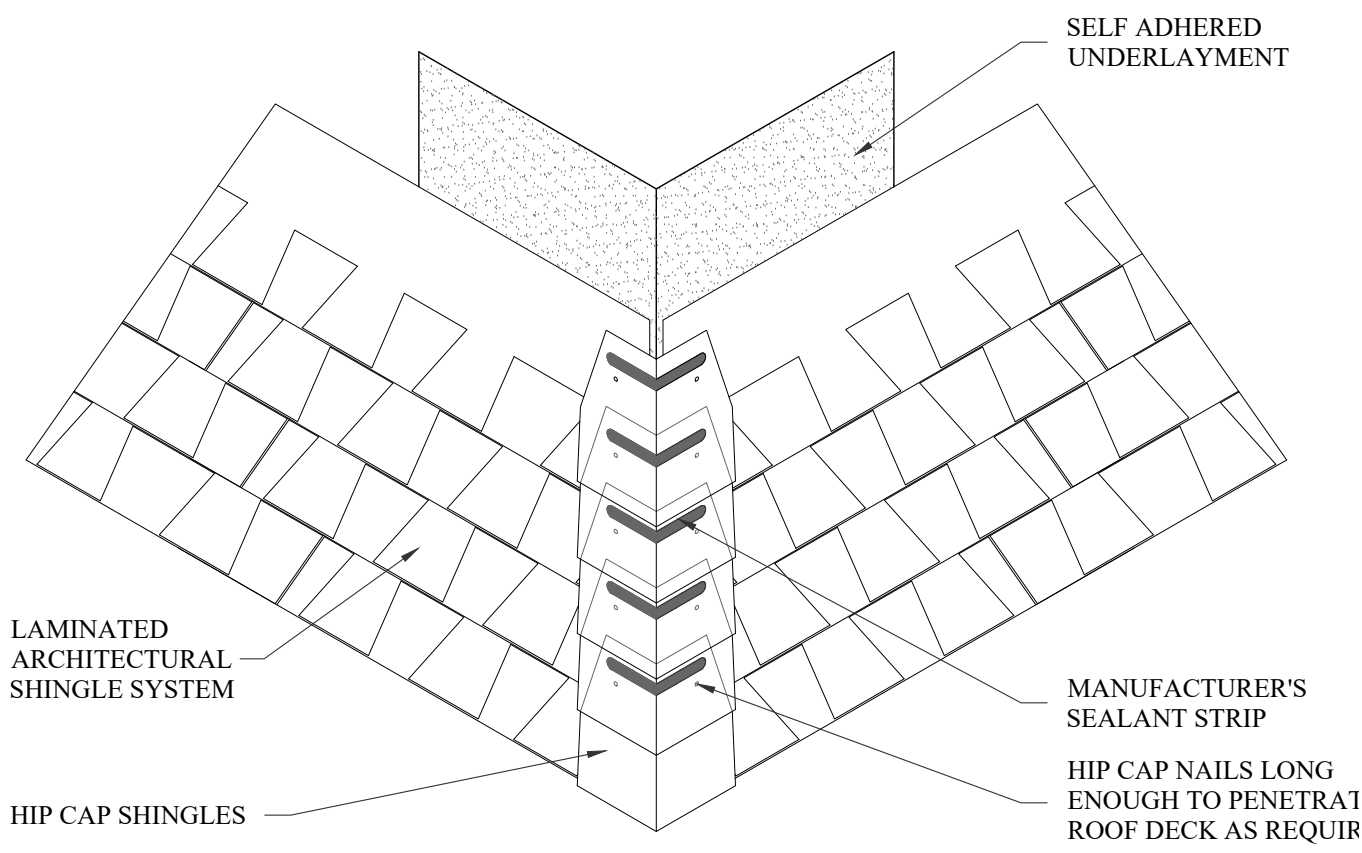
8 ROOF EDGE
D-1.1 N.T.S.



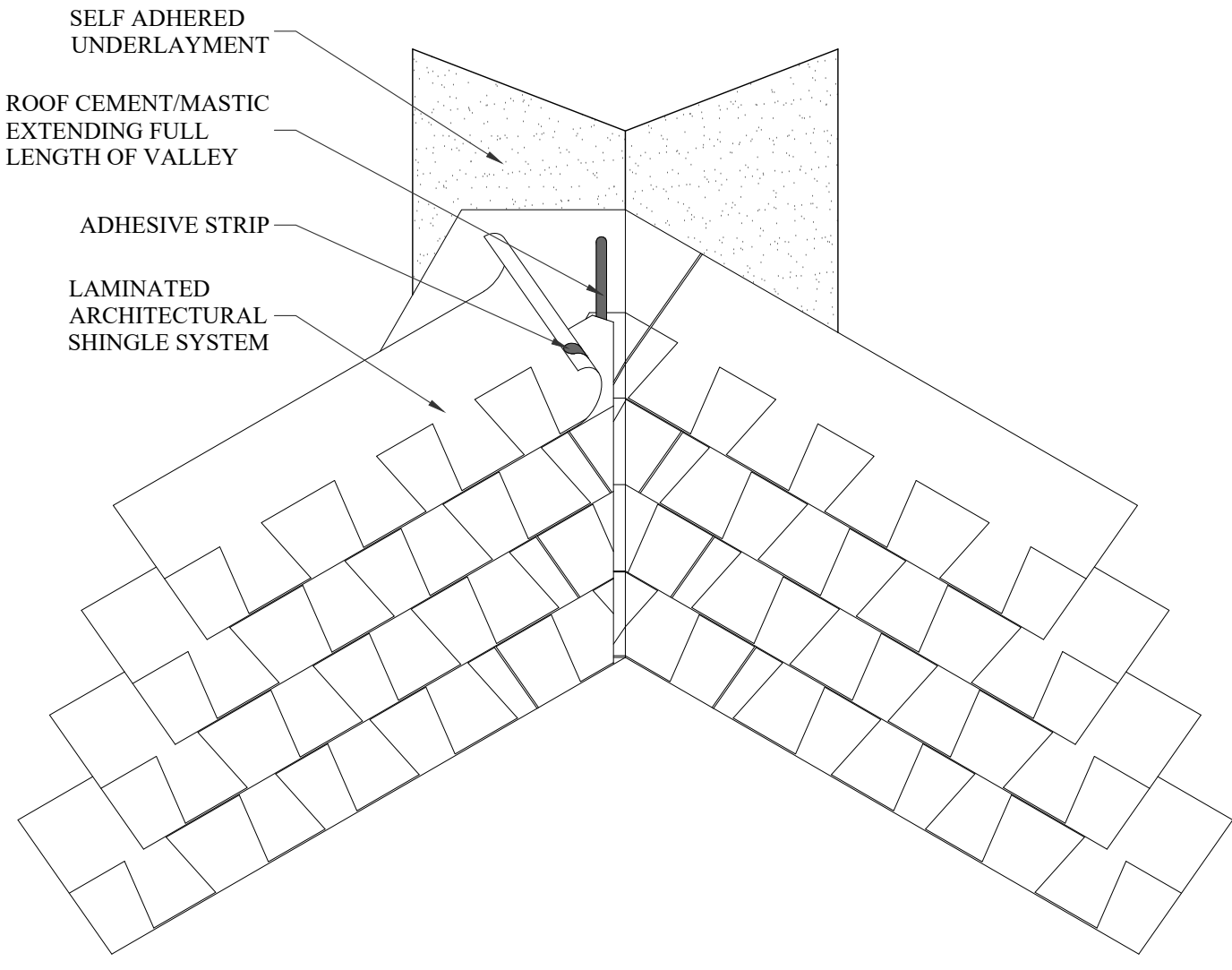
9 RAKE
D-1.1 N.T.S.



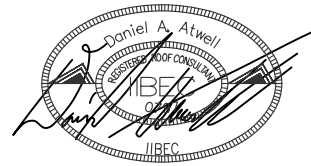
10 RIDGE
D-1.1 N.T.S.



11 HIP FLASHING
D-1.1 N.T.S.



12 VALLEY
D-1.1 N.T.S.



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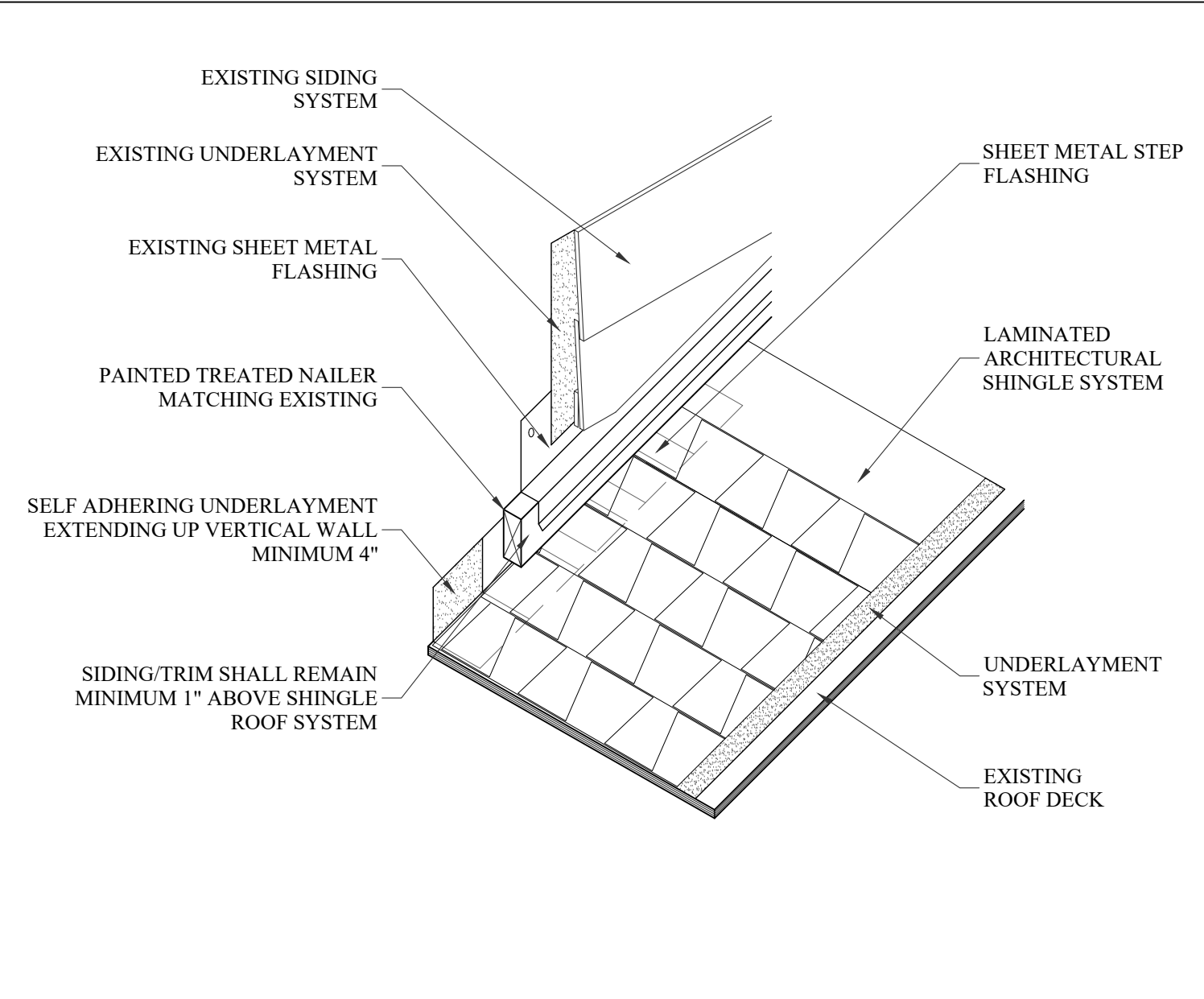
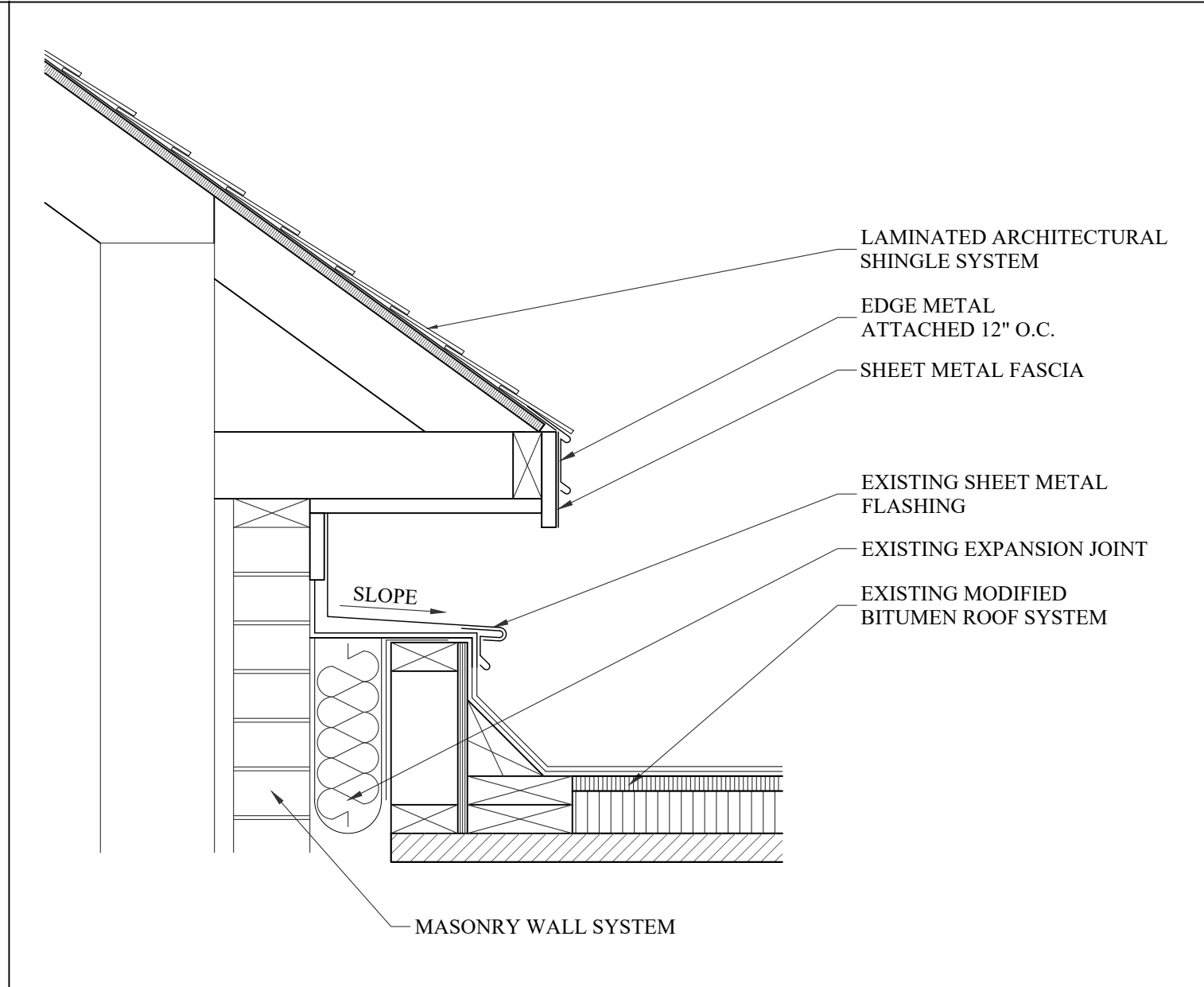
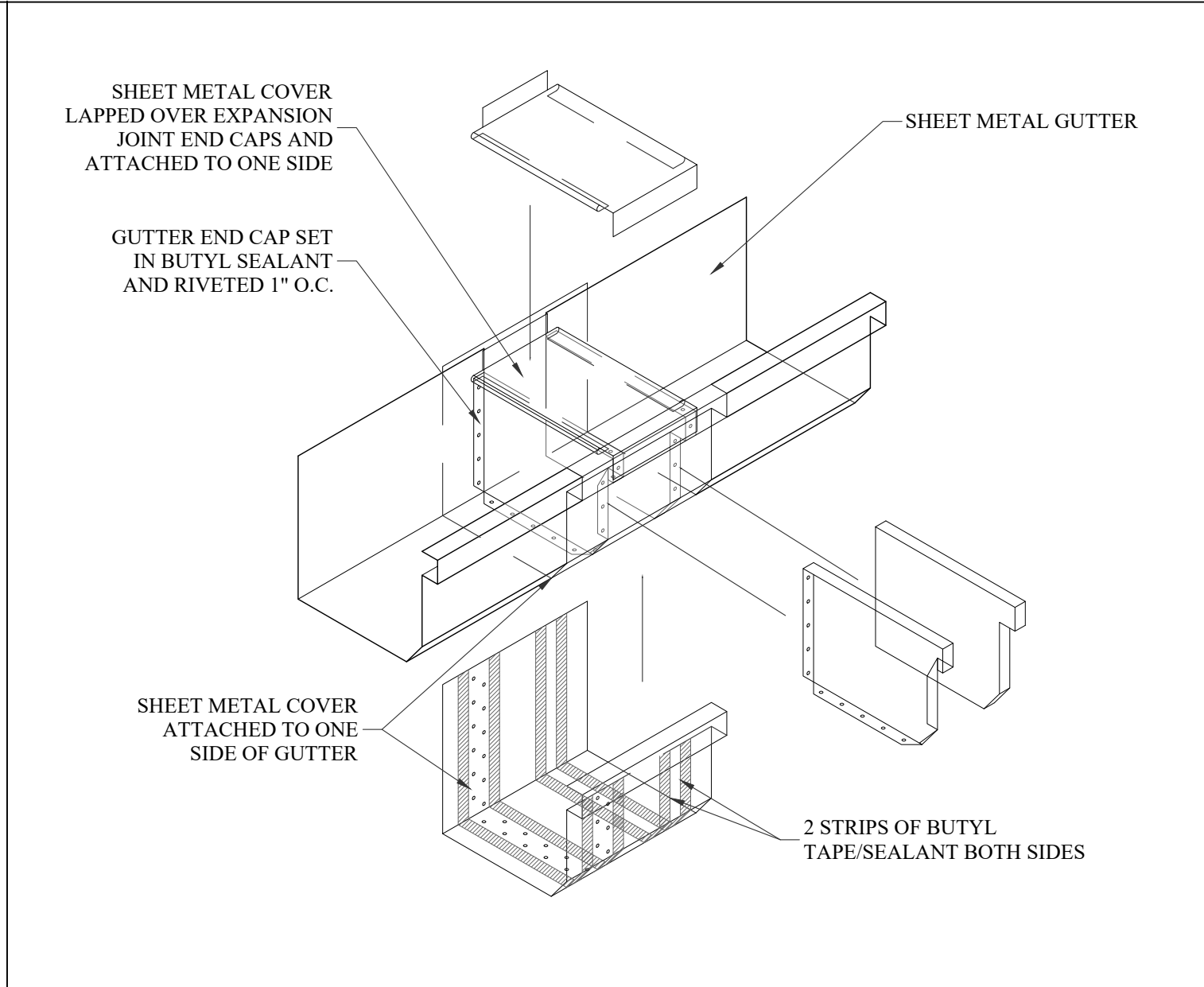
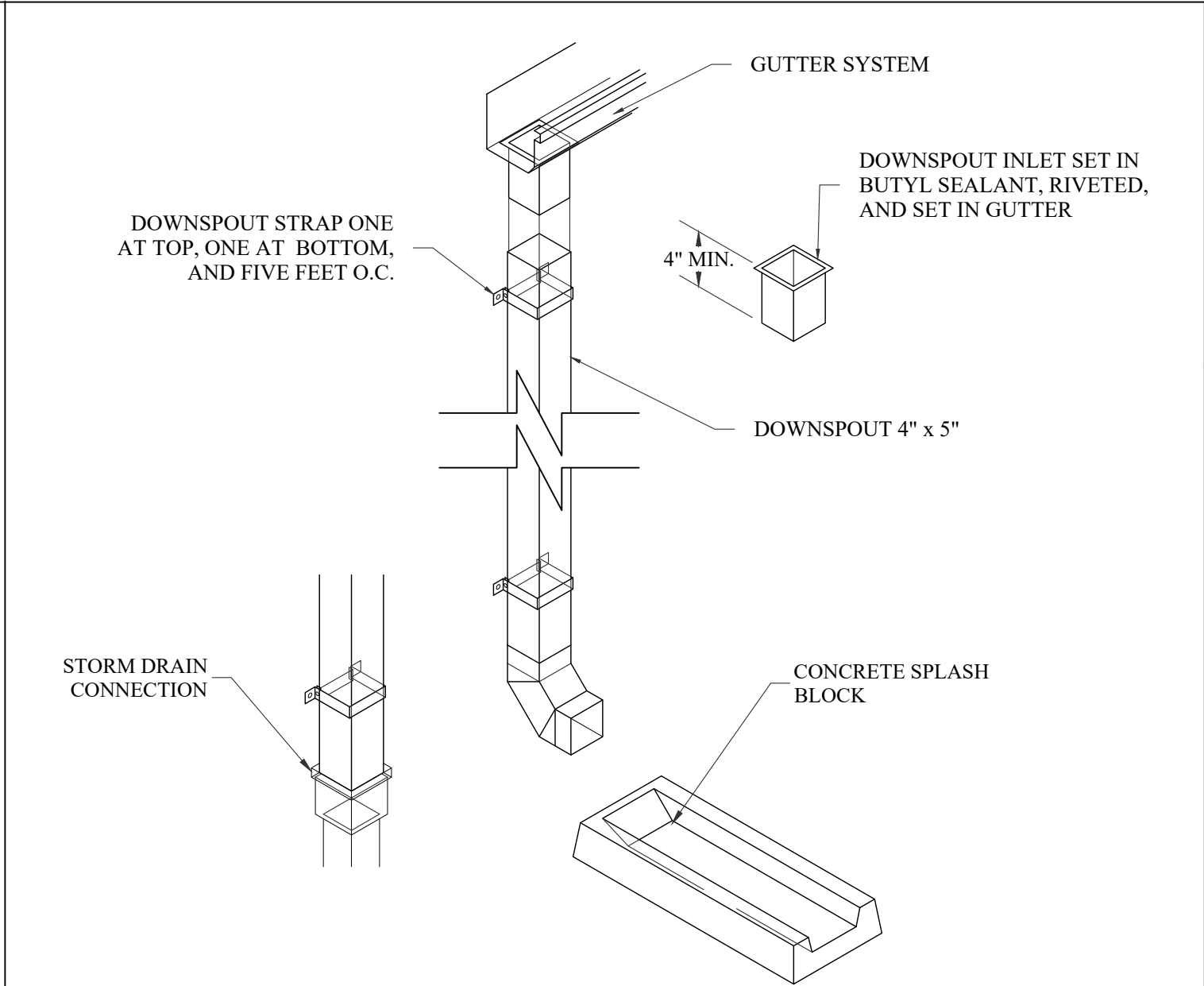
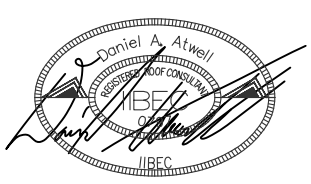
PROJECT NUMBER: 2025-51

DESIGN DEVELOPMENT

DATE: 04-16-2025

DETAILS

D-1.1

 EXISTING SIDING SYSTEM EXISTING UNDERLAYMENT SYSTEM EXISTING SHEET METAL FLASHING PAINTED TREATED NAILER MATCHING EXISTING SELF ADHERING UNDERLAYMENT EXTENDING UP VERTICAL WALL MINIMUM 4" SIDING/TRIM SHALL REMAIN MINIMUM 1" ABOVE SHINGLE ROOF SYSTEM SHEET METAL STEP FLASHING LAMINATED ARCHITECTURAL SHINGLE SYSTEM UNDERLAYMENT SYSTEM EXISTING ROOF DECK 13 ROOF TO SIDEWALL @ DORMER D-1.2 N.T.S.	 LAMINATED ARCHITECTURAL SHINGLE SYSTEM EDGE METAL ATTACHED 12" O.C. SHEET METAL FASCIA EXISTING SHEET METAL FLASHING EXISTING EXPANSION JOINT EXISTING MODIFIED BITUMEN ROOF SYSTEM SLOPE MASONRY WALL SYSTEM 14 STEEP SLOPE TO LOW SLOPE TRANSITION D-1.2 N.T.S.	 SHEET METAL COVER LAPPED OVER EXPANSION JOINT END CAPS AND ATTACHED TO ONE SIDE GUTTER END CAP SET IN BUTYL SEALANT AND RIVETED 1" O.C. SHEET METAL GUTTER SHEET METAL COVER ATTACHED TO ONE SIDE OF GUTTER 2 STRIPS OF BUTYL TAPE/SEALANT BOTH SIDES 15 GUTTER EXPANSION JOINT D-1.2 N.T.S.	 GUTTER SYSTEM DOWNSPOUT STRAP ONE AT TOP, ONE AT BOTTOM, AND FIVE FEET O.C. 4" MIN. DOWNSPOUT INLET SET IN BUTYL SEALANT, RIVETED, AND SET IN GUTTER DOWNSPOUT 4" x 5" CONCRETE SPLASH BLOCK STORM DRAIN CONNECTION 16 DOWNSPOUT TO STORM DRAIN / SPLASH BLOCK D-1.2 N.T.S.	 DESIGNED: DANIEL ATWELL LANDER UNIVERSITY LAURA LANDER HALL & UNIVERSITY PLACE STUDENT HOUSING ROOF REPLACEMENTS LAURA LANDER HALL 403 DURST AVENUE W. GREENWOOD, SC 29649 UNIVERSITY PLACE STUDENT HOUSING 320 STANLEY AVENUE GREENWOOD, SC 29649
17 DETAIL NOT USED D-1.2 N.T.S.	18 DETAIL NOT USED D-1.2 N.T.S.	19 DETAIL NOT USED D-1.2 N.T.S.	20 DETAIL NOT USED D-1.2 N.T.S.	 COLUMBIA AREA OFFICE 1611 CHAPIN ROAD CHAPIN, SOUTH CAROLINA EMAIL:CHRIS@WMBECONSULTANTS.COM EMAIL:DANIEL@WMBECONSULTANTS.COM CHARLESTON AREA OFFICE 217 N. LIVE OAK DRIVE MONCK'S CORNER, SOUTH CAROLINA EMAIL:JOE@WMBECONSULTANTS.COM THESE DRAWINGS ARE THE PROPERTY OF: WM BUILDING ENVELOPE CONSULTANTS, LLC THE REPRODUCTION, COPYING OR OTHER USE OF THESE DRAWINGS WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND MAY BE SUBJECT TO LEGAL ACTION.
21 DETAIL NOT USED D-1.2 N.T.S.	22 DETAIL NOT USED D-1.2 N.T.S.	23 DETAIL NOT USED D-1.2 N.T.S.	24 DETAIL NOT USED D-1.2 N.T.S.	PROJECT NUMBER: 2025-51 DESIGN DEVELOPMENT DATE: 04-16-2025 DETAILS D-1.2