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GREENSBORO, NC CORPORATE OFFICE ASHEVILLE, NC CHARLESTON, SC CHARLOTTE, NC CHARLOTTESVILLE, VA RALEIGH-DURHAM, NC WILMINGTON, NC

ABE	BRE'	∕IA ⁻	ΓΙΟΝ	15

A.B. ACI	ANCHOR BOLT AMERICAN CONCRETE	LB. LG. LIN
A.F.F. AISC	ABOVE FINISHED FLOOR AMERICAN INSTITUTE OF	LL LT. WI
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	M.O.S. M.O.W
ALT. ARCH. ASTM	ALTERNATE ARCHITECTURAL AMERICAN SOCIETY FOR	MATL. MAX. MIN.
AVG.	TESTING AND MATERIALS AVERAGE	MISC. MK
AVVS	SOCIETY	N/A N.F.
BLDG. BM. B.P.	BUILDING BEAM BEARING PLATE;BASE PLATE	N.I.C. N.T.S. N-S
BRG. C.J.	BEARING CONSTRUCTION JOINT	NCSB
CMU CGS	CONCRETE MASONRY UNIT CENTER OF GRAVITY OF	NOM.
CL. CLG.	CENTERLINE CEILING	0,C 0.D. 0.F.
CLR. COL. CONC.	CLEAR COLUMN CONCRETE	OPNG OPP. O.H.
CONN. CONST.	CONNECTION CONSTRUCTION	ORIG.
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	P/S P/T P.C.
CTR.		PCI PFN
D.J. D.S.	DOUBLE JOIST DOWN SPOUT	PERP. PL.
DBL. DET. DIA.	DETAIL DIAMETER	PSF PSI P.T.
DIAG. DIM. DI	DIAGONAL DIMENSION DEAD LOAD	PTI PVC
DN. DWG(S).	DOWN DRAWING(S)	R.
E.F. E.S.	EACH FACE EACH SIDE	R.D. RAD. REF.
E.W. E-W FA	EACH WAY EAST-WEST FACH	REINF
ELEV. ENGR.	ELEVATION; ELEVATOR ENGINEER	REQ'D
EQ. EXIST. E.J.	EQUAL EXISTING EXPANSION JOINT	S.J. S.S. S.W.
EXT.		SCHEI SECT.
F.F. FDN.	FACE FOUNDATION	SIM. SJI
FIN. FL. FLG.	FINISH FLOOR FLANGE	SLBB SLO S.O.G.
F.O.B. FT. FTC	FACE OF BRICK FOOT; FEET	SPEC(SQ.
FV. G.B.	FIELD VERIFY GRADE BEAM	STL. STRU
ga. Galv.	GAGE; GAUGE GALVANIZED	SYM. T.O.C.
H.M. H.S.	HOLLOW METAL HIGH STRENGTH	T.O.F. T.O.S.
HSS	HOLLOW STRUCTURAL SHAPE	T&B TEMP
HI. I.D.	HEIGHT INSIDE DIAMETER	THRU TYP.
I.F. IN. IBC	INSIDE FACE INCH;INCHES INTERNATIONAL BUILDING	U.L.
INT.	CODE INTERIOR;INTERSECTION	W/O
JST. JT.	JOIST JOINT	W/ W.P. W.W.F
K K/FT	KIP (1,000 LBS.) KIPS PER FOOT	
LLBB LLH LLO LLV L.W.	LONG LEGS BACK TO BACK LONG LEG HORIZONTAL LONG LEG OUTSTANDING LONG LEG VERTICAL LONG WAY	

LB.	POUND
LG.	LONG
LIN.	LINEAR
LL	LIVE LOAD
LT. WT.	LIGHT WEIGHT
M.O.S.	MIDDLE OF SLAB
M.O.W.	MIDDLE OF WALL
MATL.	MATERIAL
MAX.	MAXIMUM
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MK	MARK
N/A N.F. N.I.C. N.T.S. N-S NCSBC NO.	NOT APPLICABLE NEAR FACE NOT IN CONTRACT NOT TO SCALE NORTH-SOUTH NORTH CAROLINA STATE BUILDING CODE NUMBER NOMINAL
O/C	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OPNG.	OPENING
OPP.	OPPOSITE
O.H.	OPPOSITE HAND
ORIG.	ORIGINAL
P/S P/T P.C. PCI PEN. PERP. PL. PSF PSI P.T. PTI PVC	PRESTRESSED POST-TENSIONING PRECAST CONCRETE PRESTRESSED CONCRETE INSTITUTE PENETRATION PERPENDICULAR PLATE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PRESSURE TREATED POST-TENSIONING INSTITUTE POLYVINYL CHLORIDE
R. R.D. RAD. REF. REINF. REM. REQ'D.	RADIUS ROOF DRAIN RADIUS REFERENCE REINFORCE(D); REINFORCING REMAINING; REMAINDER REQUIRED
S.J.	SAWED JOINT
S.S.	STAINLESS STEEL
S.W.	SHORT WAY
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SIM.	SIMILAR
SJI	STEEL JOIST INSTITUTE
SLBB	SHORT LEGS BACK TO BACK
SLO	SHORT LEG OUTSTANDING
S.O.G.	SLAB ON GRADE
SPEC(S).	SPECIFICATION(S)
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
SYM.	SYMMETRICAL
T.O.C.	TOP OF CONCRETE
T.O.F.	TOP OF FOOTING
T.O.S.	TOP OF SLAB; TOP OF STEEL
T.O.W.	TOP OF WALL
T&B	TOP AND BOTTOM
TEMP.	TEMPORARY
THRU	THROUGH
TYP.	TYPICAL
U.L. U.N.O. W/O W/ W.P. W.W.F.	UNDERWRITERS LABORATORIES UNLESS NOTED OTHERWISE WITHOUT WITH WORKING POINT WELDED WIRE FABRIC

PEMBROKE, NORTH CAROLINA 28372

CONSTRUCTION DOCUMENTS: BID SET



remain the property of SKA Consulting Engine c. whether the project for which they are made executed or not. These drawings are not to be us in part or in whole by the owner or any other pers or agency on this or any other projects or exten o this project except by agreement in writing with appropriate compensation to SKA. Copyright 2024 by SKA Consulting Engineers all rights reserved except as permitted under t Inited States Copyright Act of 1976, no part of t document may be reproduced or distributed in a orm or by any means without the written permiss of SKA Consulting Engineers, Inc. 220476-G0000.0 4/22/2024 7:59:50

Date: 04-22-2024 Set No:

Issued For:

	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL <u>ROOF</u> PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2)	Gross Area (sq. ft.):STORIESAREA 2AREA 3AREA 2AREA 4AREA 5AREA 6AREA 7AREA 8AREA 935,360 ft²245 ft²12,130 ft²500 ft²590 ft²430 ft²5860 ft²2520 ft²
Normal	Name of Project: _Roof Replacement for UNC Pembroke - Oxendine Science Building Address: _1 University Dr., Pembroke, NC Zip Code _27372_ Proposed Use: _Business (no change) Owner/Authorized Agent: _Kevin Witmore Phone # (910) 740-1007 _ E-Mail _kevin.witmore@uncp.edu Owned By: City/County Private X State Code Enforcement Jurisdiction: City City County X State	FIRE PROTECTION REQUIREMENTS BUILDING ELEMENT FIRE RESISTANCE RATING DETAIL # DESIGN # BUILDING ELEMENT FIRE RESISTANCE RATING DETAIL # DESIGN # Roof Construction, including supporting beams and joists 0 hr 0 hr 0 hr Roof Ceiling Assembly 0 hr 0 hr 0 hr Column Supporting Roof 0 hr 0 hr 0 hr
0	CONTACT: SKA Consulting Engineers, Inc. (SKA); NC Firm License No. F-0508; (984) 349-5990 DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL Architectural ()	STRUCTURAL DESIGN
	Civil ()	(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE) DESIGN LOADS:
<form></form>	Plumbing () Mechanical () Sprinkler-Standpipe ()	Importance Factors:Snow(Is)1.10Seismic (IE)1.25
<form></form>	Structural Image: SKA Rosanna Tucker, PE 055413 (910) 977-1465 rmtucker@skaeng.com	Live Loads: Roof <u>20</u> psf
<form></form>	2018 NC CODE FOD:	Ground Snow Load: 10 psf
SNR DERIGNENT TO COMPANY AND DEPAY ADD DEPAY	2016 NC CODE FOR: [A] ROOT Replacement [X] Root Recover [] Root Repair CONSTRUCTED (date): 1987 CURRENT OCCUPANCY(S) (Ch. 3): Business (Education > 12th grade) (no change)	Wind Load:Ultimate Wind Speed135 104+10=114 Cmph (ASCE 7-10) mph
Construction Type:	BASIC BUILDING DATA	Risk Category:
Note: A definition of the order of the order Agentic B to the definition of the order of the	Construction Type: I-A II-A III-A IV V-A (check all that apply) I-B X II-B III-B V-B Sprinklers: No Partial X Yes X NFPA 13 NFPA 13R NFPA 13D Standpipes: No X Yes Class X I III III Wet Dry Fire District: X No Yes (Primary) Yes Yes Yes Yes Yes	Uplift Pressures (includes a factor of safety of 2.0):All Roof AreasZone 1-75psfZone 2-126psfPerimeter Size18 ft wideZone 3-190psfCorner Size18 ft x 18 ftFor Zone sizes and locations, see sheet(s)R1.4
Control		Roof System Weight: Roof Areas 2, 3, 5, 6, 7, 8, 9, and 10 Roof Area 4 Existing 8.0 psf Existing 8.6 psf New 8.6 psf New 3.0 psf
<section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header>	2018 NC Administrative Code and Policies Appendix B for Roof	Total Added 0.6 psf Total Added -5.6 psf 2018 NC Administrative Code and Policies Appendix B for Roof
Name of Project Rest Propriet Rest Car Concentration Address: University DD, Pembraroka, NC Zip Code, 22372	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL ROOF PROJECTS	Gross Area (sq. ft.): STORIES AREA
Proposed Use: Lightary (inco dhange) Owend Way: Childrone Phone # (0 10) 740-1007 U-Mail kerinivitmone @unco.pedu Owend Way: Childrone Phone # (0 10) 740-1007 U-Mail kerinivitmone @unco.pedu Owend Way: Childrone Phone # (0 10) 740-1007 U-Mail kerinivitmone @unco.pedu Cook Enforcement Junisdictions: Childrone Phone # (0 10) 740-1007 U-Mail kerinivitmone @unco.pedu Cook Enforcement Junisdictions: Childrone Phone # (0 10) 740-1007 U-Mail kerinivitmone @unco.pedu Cook Enforcement Junisdictions: Childrone Phone # (0 10) 740-1007 U-Mail kerinivitmone @unco.pedu Cook Enforcement Junisdictions: Childrone Phone # (0 10) 740-1007 U-Mail kerinivitmone @unco.pedu Cook Enforcement Junisdictions: Childrone Phone # (0 10) 770-1000 Uncols #	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL <u>ROOF</u> PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2)	Gross Area (sq. ft.): STORIES AREA AREA AREA AREA AREA 2 17,455 ft ²
Owned By: Cuber Differencement Jurisdiction: City Over Conserve (Colourny) X state Constructor: State State State CONTRACT: State State Over Conserve (Colourn) X state Constructor: Conserve (Colourn) X state Over Colourn) X state Constructor: Colourny X state Over Colourny X state State Colourny Colourny X state Over Colourny Non-One State Colourny Colourny Colourny Non-One State Over Colourny Non-One State Colourny	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL ROOF PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: 1 University Dr., Pembroke, NC	Gross Area (sq. ft.): STORIES AREA A AREA AREA AREA A 2 17,455 ft² Image: colspan="2">Image: colspan="2">AREA A<
Contract: Ska Consulting Engineers. Inc. (SkA): NC Firm License No. F-0508: (984) 349-5990 Deskdawit Max CVII Contract: Electrical Contract: Mediatal Contract: Structural Contract: Contract: Contract: <td>2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL ROOF PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) Carter of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: 1 University Dr., Pembroke, NC Zip Code 27372 Proposed Use: Library (no change) Owner/Authorized Agent: Kevin Witmore Owner/Authorized Agent: Kevin Witmore Phone # (910) 740-1007 E-Mail kevin.witmore@uncp.edu</td> <td>Gross Area (sq. ft.): STORIES AREA A AREA AREA AREA 2 17,455 ft² Image: colspan="2">AREA Image: colspan="2">AREA 2 17,455 ft² Image: colspan="2">Image: colspan="2">AREA BUILDING ELEMENT FIRE PROTECTION REQUIREMENTS FIRE PROTECTION REQUIREMENTS BUILDING ELEMENT FIRE RESISTANCE RATING DETAIL # DESIGN # RATED ASSE Roof Construction, including supporting O hr O hr O hr Building supporting O hr O hr O hr O hr O hr O hr Building supporting O hr <t< td=""></t<></td>	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL ROOF PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) Carter of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: 1 University Dr., Pembroke, NC Zip Code 27372 Proposed Use: Library (no change) Owner/Authorized Agent: Kevin Witmore Owner/Authorized Agent: Kevin Witmore Phone # (910) 740-1007 E-Mail kevin.witmore@uncp.edu	Gross Area (sq. ft.): STORIES AREA A AREA AREA AREA 2 17,455 ft² Image: colspan="2">AREA Image: colspan="2">AREA 2 17,455 ft² Image: colspan="2">Image: colspan="2">AREA BUILDING ELEMENT FIRE PROTECTION REQUIREMENTS FIRE PROTECTION REQUIREMENTS BUILDING ELEMENT FIRE RESISTANCE RATING DETAIL # DESIGN # RATED ASSE Roof Construction, including supporting O hr O hr O hr Building supporting O hr O hr O hr O hr O hr O hr Building supporting O hr O hr <t< td=""></t<>
CONTACT: SKA Consulting Engineers, Inc. (SKA): WC Firm License No. F-9080; (984) 349-5990 Descarbia NAM License II Child Inc. Inc. Child Inc. Inc. Child Inc. Inc. Wetchniced Inc. Inc. Sprickler Stat. Rosanna Tucker, PE 055413 (310) 377-1455 Sprickler Stat. Rosanna Tucker, PE 055413 (310) 377-1455 CURRENT OCCUPANCY(S) (Ch. 3); Library (Assembly A-3) (no change) Ins. Ins. PASIC BUILDING DATA Ins. Ins. Ins. Ins. Currention Type: I-A Ins. Ins. Ins. Sprinklers: No Parina (Si ves) Ins. Ins. Ins. Standplipe: No Parina (Si ves) Ins. Ins. Ins. Ins. Currention Type: I-A Ins.	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL ROOF PROJECTS FOR ALL COMMERCIAL ROOF PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) Cleproduce the following data on the building plans sheet 1 or 2) Name of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: 1 University Dr., Pembroke, NC Zip Code 27372 Proposed Use: Library (no change) Owner/Authorized Agent: Kevin Witmore Phone # (910) 740-1007 E-Mail kevin.witmore@uncp.edu Owned By: City/County Private X State	Gross Area (sq. ft.): STORIES AREA AREA AREA AREA 2 17,455 ft² AREA FIRE PROTECTION REQUIREMENTS BUILDING ELEMENT FIRE RESISTANCE RATING DETAIL # DESIGN # RATED ASSE Roof Construction, including supporting beams and joists 0 hr
Architectunal	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL ROOF PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) CReproduce the following data on the building plans sheet 1 or 2) Name of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: 1 University Dr., Pembroke, NC Zip Code 27372 Proposed Use: Library (no change) Owner/Authorized Agent: Kevin Witmore Phone # (910) 740-1007 E-Mail kevin.witmore@uncp.edu Owned By: City/County Private X State Code Enforcement Jurisdiction: City County X State	Gross Area (sq. ft.): STORIES AREA A AREA AREA AREA 2 17,455 ft²
Live Loads: Spiralkers: Spiralkers: Spiralkers: CONSTRUCTED (date): 1966 CONSTRUCTED (date): 1967 CONSTRUCTED (date): 1968 Construction Type: 1-A 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B 1-B	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL ROOF PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: Name of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: Owner/Authorized Agent: Kevin Witmore Proposed Use: Library (no change) Owner/Authorized Agent: Kevin Witmore Owned By: City/County Private State Coottact: SKA Consulting Engineers, Inc. (SKA); NC Firm License No. F-0508; (984) 349-5990 DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL	Gross Area (sq. ft.):
Micebauka Sprinklers-Standpipe Structural Other SKA Rosanna Tucker, PE 055413 (910) 977-1465 Importance Factors: Structural Other SKA Roof Replacement Roof Replacement Roof Replacement Roof Replacement Roof Replacement CONSTRUCTED (date): 1966 CURRENT OCCUPANCY(S) (Ch. 3): Library (Assembly A-3) (no change) BASIC BUILDING DATA Custuration Type: 10 110 1110 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111 <	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL ROOF PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: Name of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: Owner/Authorized Agent: Kevin Witmore Phone # (910) 740-1007 E-Mail Without a colspan="2">Kevin Witmore Owner/Authorized Agent: Kevin Witmore Phone # (910) 740-1007 E-Mail Kevin.witmore@uncp.edu Owned By: City/County Private Xate Contact: SKA Consulting Engineers, Inc. (SKA); NC Firm License No. F-0508; (984) 349-5990 DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL	Gross Area (sq. ft.):
Structural Other SKA Rosanna Tucker, PE 055413 (910) 977-1465 Imtucker@skaeng.com 2018 NC CODE FOR: Skof Replacement Roof Repair CONSTRUCTED (date): 1966 2018 NC CODE FOR: Construction (and the construction (and the construction (and the construction (and the construction (b) partial (b) part	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL ROOF PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: 1 University Dr., Pembroke, NC Zip Code 27372 Proposed Use: Library (no change) Owner/Authorized Agent: Kevin Witmore Phone # (910) 740-1007 E-Mail kevin.witmore@uncp.edu Ownerd Authorized Agent: Kevin Witmore Phone # (910) 740-1007 E-Mail kevin.witmore@uncp.edu Ownerd By: City/County Private S State CONTACT: SKA Consulting Engineers, Inc. (SKA); NC Firm License No. F-0508; (984) 349-5990 DESIGNER FIRM NAME LICENSE # TELEPBONE # E-MAIL Architectural	Error for a AREA A AREA AREA AREA AREA AREA AREA
2018 NC CODE FOR:	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL ROOF PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: 1 University Dr., Pembroke, NC Zip Code 27372 Proposed Use: Library (no change) Owner/Authorized Agent: Revin Witmore Phone # (910) 740-1007 E-Mail Kevin.witmore@uncp.edu Owned By: City/County Private State Contact: SKA Consulting Engineers, Inc. (SKA); NC Firm License No. F-0508; (984) 349-5990 DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL Architectural	Gross Area (sq. ft.): <u>STORIES</u> <u>AREA _ A _ AREA _ AREA _ AREA _ AREA _ AREA _ AREA _ 2 17,455 ft² <u>17,455 ft² </u> FIRE PROTECTION REQUIREMENTS BUILDING ELEMENT </u>
2018 NC CODE FOR:	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL ROOF PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Except 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: 1 University Dr., Pembroke, NC Zip Code 27372 Proposed Use: Library (no change) Owner/Authorized Agent: Kevin Witmore Phone # (910) 740-1007 E-Mail Address: Contract: SKA Consulting Engineers, Inc. (SKA); NC Firm License No. F-0508; (984) 349-5990 DEBGRORR FIRM NAME LICENSE # TelePHONE E-MAIL Architectural	Gross Area (sq. ft.): <u>STORIES</u> <u>AREA _ A</u> <u>AREA _ AREA _ AREA _ AREA _ AREA _ AREA _ AREA _ 2 17,455 ft² <u>2</u> 17,455 ft² FIRE PROTECTION REQUIREMENTS BUILDING ELEMENT </u>
BASIC BUILDING DATA Construction Type: I-A (include a linta apply) I-B II-B II-B <td>2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL ROOF PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Except 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Except 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: Address: 1 University Dr., Pembroke, NC Proposed Use: Library (no change) Owner/Authorized Agent: Kevin Witmore Phone # (910) 740-1007 E-Mail New of Droject: City/County Private X State Coote Enforcement Jurisdiction: City City/County Private E State CONTACT: SKA Consulting Engineers, Inc. (SKA); NC Firm License No. F-0508; (984) 349-5990 DESIGNER FIRM NAME LICENSE # TELEPHONE # E-Mail Civil </td> <td>Gross Area (sq. ft.): <u>STORIES</u> <u>AREA <u>A</u> <u>AREA</u> <u>AREA</u> <u>AREA</u> <u>AREA</u> <u>AREA</u> <u>AREA</u> <u>AREA</u> <u>2</u> <u>17,455 ft² <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u></u></u></td>	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL ROOF PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Except 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Except 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: Address: 1 University Dr., Pembroke, NC Proposed Use: Library (no change) Owner/Authorized Agent: Kevin Witmore Phone # (910) 740-1007 E-Mail New of Droject: City/County Private X State Coote Enforcement Jurisdiction: City City/County Private E State CONTACT: SKA Consulting Engineers, Inc. (SKA); NC Firm License No. F-0508; (984) 349-5990 DESIGNER FIRM NAME LICENSE # TELEPHONE # E-Mail Civil	Gross Area (sq. ft.): <u>STORIES</u> <u>AREA <u>A</u> <u>AREA</u> <u>AREA</u> <u>AREA</u> <u>AREA</u> <u>AREA</u> <u>AREA</u> <u>AREA</u> <u>2</u> <u>17,455 ft² <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u></u></u>
Construction Type: I-A II-A III-A IV V-A (check all that apply) I-B X II-B III-B V-B Sprinklers: No Partial X Yes NFPA 13 NFPA 13R NFPA 13D Standpipes: No Xes Class I I III III Wet Dry Fire District: Xo Yes (Primary) Ves Fire District: No Yes 15 ft wide Zone 3 -172 psf Corner Size 15 ft wide Zone 3 -172 psf Corner Size 15 ft wide Zone 3 -172 psf For Zone sizes and locations, see sheet(s) R1.4 - Roof System Weight: Existing 10.0 psf 2018 NC Administrative Code and Policies Appendix B for Roof 2018 NC Administrative Code and Policies Appendix B for Roof 2018 NC Administrative Code and Policies Appendix B for Roof	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL <u>ROOF</u> PROJECTS. (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) Name of Project: Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: 1 University Dr., Pembroke, NC Proposed Use: Library (no change) Owner/Authorized Agent: Kevin Witmore Proposed Use: City/County Private Owner/Authorized Agent: City/County Private Owner/Authorized Agent: City/County Private Cottact: SKA Consulting Engineers, Inc. (SKA); NC Firm License No. F-0508; (984) 349-5990 DESKORER FIRM NAME LICENSE# Citvid	Gross Area (sq. ft.): <u> </u>
2018 NC Administrative Code and Policies Appendix B for Roof 2018 NC Administrative Code and Policies Appendix B for Roof 2018 NC Administrative Code and Policies Appendix B for Roof	DIS APPENDIX B BUILDING CODE SUMMARY POR ALL COMMERCIAL ROOF PROJECTS. MAINTER COMMERCIAL ROOF PROJECTS. CRAFT AND 2-FAMILY DWELLINGS AND TOWNHOUSES. Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Reproduce the following data on the building plans sheet 1 or 2) Mater standappe Zip Code 27372 Proposed Use: Library (no change) Owner/Authorized Agent: Kevin Witmore Owner/Authorized Agent: Gray Ortal Owner/State City/County Private State Coottact: SKA Consoliting Engineers, Inc. (SKA); NC Firm License No. F-0508; (984) 349-5990 DESIGNER FIRM NAME City/County Contact: E-MAIL Architectural Contact: E-MAIL <t< td=""><td>Gross Area (sq. ft.): <u>STORIES</u> <u>AREA _ A</u> <u>AREA _ AREA _ AREA _ AREA _ AREA _ 2</u> <u>17,455 ft² <u>10,6 change</u> <u>ND SHEET # RESISTANCE RATING ND SHEET # RATED ASSI Roof Construction, including supporting 0 hr 0 hr (no change) <u>10,0 change</u> <u>10,0 change</u> <u>10,0 change</u> <u>10,0 change</u> <u>125 c</u> <u>11,0 c</u> <u>125 c</u> <u>11,0 c</u> <u>125 c</u> <u>11,0 seismic (h₂) <u>125 c</u> <u>11,5 mp</u> <u>10,0 psf</u> <u>125 mp</u> <u>11,0 mp</u> <u>125 mp</u> <u>11,0 mp</u> <u>125 mp</u> <u>11,0 mp</u> </u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></td></t<>	Gross Area (sq. ft.): <u>STORIES</u> <u>AREA _ A</u> <u>AREA _ AREA _ AREA _ AREA _ AREA _ 2</u> <u>17,455 ft² <u>10,6 change</u> <u>ND SHEET # RESISTANCE RATING ND SHEET # RATED ASSI Roof Construction, including supporting 0 hr 0 hr (no change) <u>10,0 change</u> <u>10,0 change</u> <u>10,0 change</u> <u>10,0 change</u> <u>125 c</u> <u>11,0 c</u> <u>125 c</u> <u>11,0 c</u> <u>125 c</u> <u>11,0 seismic (h₂) <u>125 c</u> <u>11,5 mp</u> <u>10,0 psf</u> <u>125 mp</u> <u>11,0 mp</u> <u>125 mp</u> <u>11,0 mp</u> <u>125 mp</u> <u>11,0 mp</u> </u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u>
2018 NC Administrative Code and Policies Appendix B for Roof 2018 NC Administrative Code and Policies Appendix B for Roof	2018 APPENDIX B BUILDING CODE SUMMARY POR ALL COMMERCIAL <u>ROOF PROJECTS</u> . (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOLDES). (Reproduce the following data on the building plans sheet 1 or 2) Name of Project: Roof Replacement for UNC Pembroke - Livermore Library Address: 10 wore? Authorized Agent: Cevin Witmore Proposed Use: Library (no change) Owner? Authorized Agent: Cevin Witmore Proposed Use: City/County Private State Coot Enforcement Jurisdiction: City Cotter County State Contract: SKAConsulting Engineers, Inc. (SKA); NC Firm License No. F-0508; (984) 349-5990 Distorter Mattic County Betterical County State Civid County Data Binctural County Mattic Civid County Contract State Contracting County Plumbing County Costructiong State Contracting County State Contracting County State Contracting County City </td <td>Gross Area (sq. ft.): <u>17,455 ft²</u> <u>11,125 ft²</u> <u>17,455 ft²</u> <u>11,125 ft² <u>11,125 ft²</u> <u>11,125 ft² ft² <u>11,125 ft² ft² </u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></td>	Gross Area (sq. ft.): <u>17,455 ft²</u> <u>11,125 ft²</u> <u>17,455 ft²</u> <u>11,125 ft² <u>11,125 ft²</u> <u>11,125 ft² ft² <u>11,125 ft² ft² </u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u>
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TRAVEL	RESTRAINT	[·] SYSTEM

Dwg.#	220476-R1004.DWG

	G	ross Area	(sq. ft.):				
REA 3	AREA	AREA	AREA	AREA 	AREA	AREA	AREA _10_
45 ft²	12,130 ft ²	500 ft ²	590 ft ²	430 ft ²	5860 ft ²	2520 ft ²	410 ft ²

	FIRE RESISTANCE RATING		DETAIL #	DESIGN # FOR	
	REQ'D	PROVIDED	AND SHEET #	RATED ASSEMBLY	
supporting	0 hr	0 hr			
		(no change)			
	0 hr	0 hr			
		(no change)			
	0 hr	0 hr			
		(no change)			



	Gross Area (sq. f	t.):	
Α	AREA	AREA	AREA
55 ft²			

	FIRE RESISTANCE RATING		FIRE RESISTANCE RATING DETAIL #		DETAIL #	DESIGN # FOR	
	REQ'D	PROVIDED	AND SHEET #	RATED ASSEMBLY			
supporting	0 hr	0 hr					
		(no change)					
	0 hr	0 hr					
		(no change)					
	0 hr	0 hr					
		(no change)					

••	CONTRACTOR OF A CONDEDEDED DECISION OF THE
	SYSTEM. SYSTEM SHALL UTILIZE HORIZONTAL LIFELINES WIT
	ANCHOR EYES USING A SINGLE LANYARD. SUBMITTAL OF FIN
	ANCHOR LAYOUT SHALL BE SEALED BY A PROFESSIONAL ENG
	IN THE STATE OF NORTH CAROLINA. DESIGN, ENGINEERING, S
	INSTALLATION, TESTING AND CERTIFICATION OF FALL RESTRA
	BE PERFORMED BY A PERSON OSHA-CERTIFIED TO PROVIDE
	SYSTEMS.
2.	TRAVEL RESTRAINT SUPPLIER SHALL PROVIDE A 10 YEAR WA
	ANCHORS AND HORIZONTAL LIFELINES.
3.	HORIZONTAL LIFELINE (HLL) DESIGNED TO SUSTAIN THE ANTI
	DYNAMIC LOADING OF TWO (2) SIMULTANEOUS USERS - EACH
	OR LESS WITH TOOLS - CONNECTED VIA AN ENERGY ABSORB

- MAXIMUM ARREST FORCE OF 900 LBS OR LESS. 4. ALL INSTALLATION WORK MUST BE PERFORMED UNDER THE SUPERVISION OF A QUALIFIED PERSON PER OSHA REGULATIONS. 5. HORIZONTAL LIFELINES TO BE PRE-TENSIONED PER MANUFACTURER'S
- INSTRUCTIONS. 6. HORIZONTAL LIFELINE MUST BE INSTALLED AND ROUTINELY MAINTAINED AND INSPECTED PER ALL INSTRUCTIONS REFERENCED HERE. HORIZONTAL LIFELINE WILL REQUIRE AN ANNUAL RECORDED INSPECTION BY A QUALIFIED PERSON PER
- THE MANUFACTURER'S INSTRUCTIONS. 7. ALL FALL PROTECTION EQUIPMENT AND RELATED SYSTEMS SUBJECTED TO IMPACT LOADINGS MUST BE IMMEDIATELY REMOVED FROM SERVICE UNTIL INSPECTED AND RE-CERTIFIED BY A QUALIFIED PERSON.
- 8. ALL EQUIPMENT MUST BE INSTALLED, MAINTAINED AND UTILIZED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION AND MAINTENANCE INSTRUCTIONS.
- 9. SYSTEM TO BE USED UNDER THE GUIDANCE OF AN OSHA QUALIFIED PERSON PER ALL MANUFACTURER'S INSTRUCTIONS. 10. SINCE THE SYSTEM IS TO BE USED FOR TRAVEL RESTRAINT, THE EFFECTIVE LANYARD LENGTH MUST BE LESS THAN THE DISTANCE BETWEEN THE HORIZONTAL
- LIFELINE AND THE FALL HAZARD. 11. THE SYSTEM SHALL NOT BE USED TO HOIST MATERIALS OR EQUIPMENT, AND SHALL NOT BE USED FOR ROOF TIE-BACK FOR POWERED PLATFORMS OR ROPE DESCENT SYSTEMS.
- 12. FOR SAFETY REASONS, ONLY ONE (1) WORKER IS PERMITTED WITHIN A CABLE SUB-SPAN (E.G.: TERMINATING ANCHOR TO THE CLOSEST INTERMEDIATE ANCHOR OR INTERMEDIATE ANCHOR TO THE CLOSEST INTERMEDIATE ANCHOR), TWO (2) WORKERS SHALL NOT WORK SIMULTANEOUSLY WITHIN A CABLE SUB-SPAN. TWO (2) WORKERS MAY WORK SIMULTANEOUSLY ON THE OVERALL CABLE SPAN ONLY WHEN EACH WORKER IS POSITIONED WITHIN A NON-UTILIZED HLL SUB-SPAN.

M NOTES:

1 CONTRACTOR SHALL PROVIDE DELEGATED DESIGN FOR TRAVEL RESTRAINT

TH PASS-THROUGH NAL LIFELINE AND GINEER REGISTERED SUPPLY, RAINT SYSTEM SHALL

FALL RESTRAINT ARRANTY ON

ICIPATED PEAK I WEIGHING 310 LBS. BING LANYARD WITH A

GENERAL ROOFING NOTES:

Dwg.# 220476-R1004.DWG

- 1. DIMENSIONS SHOWN ON PLAN ARE FOR ESTIMATING PURPOSES ONLY AND MAY NOT REFLECT ACTUAL CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO BID AND BEFORE ORDERING ANY MATERIALS.
- 2. THIS PROJECT INVOLVES WORK WITH EXISTING CONSTRUCTION. REQUIREMENTS FOR NEW CONSTRUCTION ARE BASED IN MANY INSTANCES, ON MATERIALS AND CONSTRUCTION FOUND DURING FIELD INVESTIGATION AND/OR TAKEN FROM THE ORIGINAL CONSTRUCTION DOCUMENTS. INFORMATION SHOWN FOR FRAMING, DECKING AND SUPPORTS IS FOR ILLUSTRATION ONLY AND MAY NOT REFLECT ACTUAL CONDITIONS. ADJUSTMENTS IN THE WORK MAY BE NECESSARY TO COMPENSATE FOR VARIATIONS IN ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL NOTIFY THE ENGINEER IF CONDITIONS VARY FROM THOSE SHOWN. 3. THE CONTRACTOR SHALL FIELD VERIFY QUANTITIES OF ROOF PENETRATIONS CURRENTLY ON THE ROOF. SEE ROOF PLAN LEGEND FOR SYMBOLS IDENTIFYING
- VARIOUS TYPES OF PENETRATIONS ON THE ROOF, AND REFER TO DETAILS WHICH APPLY. SEE ROOF PLAN ON SHEET R1.1 & R1.2.
- 4. THE CONTRACTOR SHALL PROTECT ALL EXISTING LANDSCAPE PLANTINGS ADJACENT TO THE BUILDING DURING CONSTRUCTION. 5. THE CONTRACTOR SHALL CONDUCT THOROUGH CLEAN UP OF ROOF AREAS AND GROUNDS ON DAILY (WORK EVENT) BASIS AND AT COMPLETION OF CONSTRUCTION.

<u>DEMOLITION</u>:

OXENDINE SCIENCE BUILDING - ROOF AREAS '2', '3' & '4' (BASE BID) & LIVERMORE LIBRARY (ALTERNATE 3):

REMOVE AND DISPOSE OF THE EXISTING AGGREGATED BUILT-UP ROOF, PERLITE INSULATION, POLYISOCYANURATE THERMAL ROOF INSULATION AND LOOSE OR DELAMINATED VAPOR BARRIER EXPOSING THE EXISTING SOUND BITUMINOUS VAPOR BARRIER OR CONCRETE ROOF DECK. DEMOLITION SHALL INCLUDE METAL FLASHINGS, WOOD FIBER CANTS ETC. IOTE: EXISTING VAPOR RETARDER. REMOVE ALL AREAS OF THE EXISTING VAPOR RETARDER THAT IS NOT ADHERED TO THE CONCRETE DECK. CLEAN AND PRIME

AS REQUIRED BY THE ROOFING SYSTEM MANUFACTURER. OXENDINE SCIENCE BUILDING - ROOF AREAS '5', '6' AND '7' (ALTERNATE 1) & ROOF AREAS '8', '9' & '10 (ALTERNATE 2):

REMOVE AND DISPOSE OF ALL LOOSE AGGREGATE AND DIRT FROM BUILT-UP ROOF. PREPARE SURFACE IN ACCORDANCE WITH THE ROOF MEMBRANE MANUFACTURER'S WRITTEN INSTRUCTIONS. DEMOLITION SHALL INCLUDE ALL PERIMETER BASE WOOD FIBER CANTS AND RELATED B.U.R. MEMBRANE AND FLASHINGS.

<u>DXENDINE SCIENCE BUILDING - ALL ROOF AREAS:</u> DEMOLISH LIGHTNING PROTECTION TO MINIMUM EXTENT NECESSARY TO COMPLETE WORK.

VERMORE LIBRARY ROOF ARE REMOVE AND DISPOSE OF THE EXISTING AGGREGATED BUILT-UP ROOF, PERLITE INSULATION, POLYISOCYANURATE THERMAL ROOF INSULATION AND LOOSE OR DELAMINATED VAPOR BARRIER EXPOSING THE EXISTING SOUND BITUMINOUS VAPOR BARRIER OR CONCRETE ROOF DECK. DEMOLITION SHALL INCLUDE METAL FLASHINGS, WOOD FIBER CANTS ETC. NOTE: EXISTING VAPOR RETARDER. REMOVE ALL AREAS OF THE EXISTING VAPOR RETARDER THAT IS NOT ADHERED TO THE CONCRETE DECK. CLEAN AND PRIME AS REQUIRED BY THE ROOFING SYSTEM MANUFACTURER.

- 7. THE CONTRACTOR SHALL INSTALL NEW ROOF SYSTEMS AS FOLLOWS:
- OXENDINE SCIENCE BUILDING ROOF AREA '2' & '3' (BASE BID) SEE TYPICAL SYSTEM CROSS SECTION A/R2.1
- NEW CONT. ½" COVER BOARD. MECHANICALLY ATTACH AS A COMPOSITE WITH THE EXISTING COVER BOARD, EXISTING THERMAL ROOF INSULATION AND COVER BOARD, INTO METAL ROOF DECK IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS.
- FURNISH AND INSTALL A NEW CONT. FLEECE/FELT BACKED THERMOPLASTIC SINGLE-PLY ROOF MEMBRANE. FULLY ADHERE TO NEW COVER BOARD IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS.
- PROVIDE AND INSTALL CAULKING AND SEALING FOR ROOFING WORK AS SPECIFIED HEREIN AND AS REQUIRED TO PREVENT MOISTURE INTRUSION.
- INSTALL LIGHTNING PROTECTION SYSTEM AND RE-CERTIFY. EXISTING COMPONENTS MAY BE RE-USED.
- OXENDINE SCIENCE BUILDING ROOF AREA '4' (BASE BID) SEE TYPICAL ROOF SYSTEM CROSS SECTION B/R2.
- FURNISH AND INSTALL A NEW CONT. MODIFIED BITUMEN VAPOR RETARDER/TEMPORARY ROOF. COLD ADHERE TO CONCRETE ROOF DECK AND EXISTING VAPOR RETARDER IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS. PREPARE SURFACE OF DECK IN ACCORDANCE WITH THE ROOFING SYSTEMS MANUFACTURER'S WRITTEN INSTRUCTIONS.
- FURNISH AND INSTALL NEW CONT. 1/2" THICK FLAT POLYISOCYANURATE THERMAL ROOF INSULATION (BASE LAYER). COLD ADHERE TO NEW VAPOR BARRIER IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS. INSTALL WITH STAGGERED JOINTS.
- FURNISH AND INSTALL NEW CONT. TAPERED POLYISOCYANURATE THERMAL ROOF INSULATION (SLOPING ½" PER FOOT 2" START THICKNESS AT PERIMETERS/SCUPPERS. COLD ADHERE TO 11/2" BASE LAYER AND ADDITIONAL TAPERED LAYER(S) IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS. INSTALL WITH STAGGERED JOINTS.
- NEW CONT. ½" COVER BOARD. COLD ADHERE TO NEW THERMAL ROOF INSULATION IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS. INSTALL WITH STAGGERED JOINTS.
- FURNISH AND INSTALL A NEW CONT. FLEECE/FELT BACKED THERMOPLASTIC SINGLE-PLY ROOF MEMBRANE. FULLY ADHERE TO COVER BOARD IN ACCORDANCE
- WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS. PROVIDE AND INSTALL CAULKING AND SEALING FOR ROOFING WORK AS SPECIFIED HEREIN AND AS REQUIRED TO PREVENT MOISTURE INTRUSION.
- INSTALL LIGHTNING PROTECTION SYSTEM AND RE-CERTIFY. EXISTING COMPONENTS MAY BE RE-USED.
- OXENDINE SCIENCE BUILDING ROOF AREA '5', '6' & '7' (ALTERNATE 1) SEE TYPICAL ROOF SYSTEM CROSS SECTION A/R2.3
- NEW CONT. ¹/₂" COVER BOARD. MECHANICALLY ATTACH AS A COMPOSITE WITH THE EXISTING COVER BOARD, EXISTING THERMAL ROOF INSULATION AND GYPSUM SUBSTRATE BOARD, INTO METAL ROOF DECK IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS.
- FURNISH AND INSTALL A NEW CONT. FLEECE/FELT BACKED THERMOPLASTIC SINGLE-PLY ROOF MEMBRANE. FULLY ADHERE TO NEW COVER BOARD IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS.
- PROVIDE AND INSTALL CAULKING AND SEALING FOR ROOFING WORK AS SPECIFIED HEREIN AND AS REQUIRED TO PREVENT MOISTURE INTRUSION.
- INSTALL LIGHTNING PROTECTION SYSTEM AND RE-CERTIFY. EXISTING COMPONENTS MAY BE RE-USED.
- OXENDINE SCIENCE BUILDING ROOF AREA '8', '9' & '10' (ALTERNATE 2) SEE TYPICAL ROOF SYSTEM CROSS SECTION A/R2.5 & B/R2.5
- NEW CONT. ½" COVER BOARD. MECHANICALLY ATTACH AS A COMPOSITE WITH THE EXISTING COVER BOARD, EXISTING THERMAL ROOF INSULATION AND GYPSUM COVER BOARD, INTO METAL ROOF DECK IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS.
- FURNISH AND INSTALL A NEW CONT. FLEECE/FELT BACKED THERMOPLASTIC SINGLE-PLY ROOF MEMBRANE. FULLY ADHERE TO NEW COVER BOARD IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS.
- PROVIDE AND INSTALL CAULKING AND SEALING FOR ROOFING WORK AS SPECIFIED HEREIN AND AS REQUIRED TO PREVENT MOISTURE INTRUSION.
- INSTALL LIGHTNING PROTECTION SYSTEM AND RE-CERTIFY. EXISTING COMPONENTS MAY BE RE-USED.
- LIVERMORE LIBRARY (ADD ALTERNATE 3) SEE TYPICAL ROOF SYSTEM CROSS SECTION A/R2.1A • FURNISH AND INSTALL A NEW CONT. MODIFIED BITUMEN VAPOR RETARDER/TEMPORARY ROOF. COLD ADHERE TO CONCRETE ROOF DECK AND EXISTING VAPOR RETARDER IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS. PREPARE SURFACE OF DECK IN ACCORDANCE WITH THE ROOFING SYSTEMS MANUFACTURER'S WRITTEN INSTRUCTIONS.
- FURNISH AND INSTALL NEW CONT. 1/2" THICK FLAT POLYISOCYANURATE THERMAL ROOF INSULATION (BASE LAYER). COLD ADHERE TO NEW VAPOR BARRIER IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS. INSTALL WITH STAGGERED JOINTS.
- FURNISH AND INSTALL NEW CONT. TAPERED POLYISOCYANURATE THERMAL ROOF INSULATION (SLOPING ¼" PER FOOT 2" START THICKNESS AT PERIMETERS/SCUPPERS. COLD ADHERE TO 1¹/₂" BASE LAYER AND ADDITIONAL TAPERED LAYER(S) IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS. INSTALL WITH STAGGERED JOINTS.
- NEW CONT. ¼" COVER BOARD. COLD ADHERE TO NEW THERMAL ROOF INSULATION IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS. INSTALL WITH STAGGERED JOINTS.
- FURNISH AND INSTALL A NEW CONT. FLEECE/FELT BACKED THERMOPLASTIC SINGLE-PLY ROOF MEMBRANE. FULLY ADHERE TO COVER BOARD IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS.
- PROVIDE AND INSTALL CAULKING AND SEALING FOR ROOFING WORK AS SPECIFIED HEREIN AND AS REQUIRED TO PREVENT MOISTURE INTRUSION.
- 8. THE CONTRACTOR SHALL VERIFY SECUREMENT OF EXISTING WOOD BLOCKING AND PLYWOOD SHEATHING ENCOUNTERED DURING CONSTRUCTION AND FURNISH MATERIALS AND LABOR TO REPLACE DAMAGED/DETERIORATED WOOD BLOCKING AND PLYWOOD SHEATHING IN ACCORDANCE WITH THE PROJECT DOCUMENTS. SEE SPECIFICATIONS FOR UNIT COSTS AND ALLOWANCES.
- 9. MECHANICAL UNITS AND OTHER ROOF PROJECTIONS SHALL BE RAISED/EXTENDED AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO OBTAIN 8" MIN. FLASHING TERMINATIONS. THE CONTRACTOR SHALL FIELD VERIFY QUANTITY, SIZE AND LOCATIONS OF ALL ROOF PENETRATIONS PRIOR TO BID AND BEFORE ORDERING MATERIALS. POWERED UNITS SHALL BE DISCONNECTED/RE-CONNECTED BY A LICENSED ELECTRICIAN. NOTE: IF MODIFYING ELECTRICAL CONNECTIONS WHEN RAISING MECHANICAL EQUIPMENT, OBTAIN APPROVED ELECTRICAL INSPECTION FROM LOCAL AUTHORITY HAVING JURISDICTION BEFORE RE-ENERGIZING MECHANICAL EQUIPMENT. NOTE: CONTRACTOR MUST SUBMIT REQUEST TO THE OWNER FOR ANY EQUIPMENT SHUTDOWNS AT LEAST (5) BUSINESS DAYS IN ADVANCE. SHUTDOWN TIME WILL BE SCHEDULED AT THE SOLE DISCRETION OF THE OWNER WITH NO EXTRA COMPENSATION GIVEN FOR WEEKEND OR AFTER-HOURS SHUTDOWNS.
- 10. THE CONTRACTOR SHALL PROVIDE CRICKET INSULATION AT LOCATIONS SHOWN ON THE ROOF PLANS. CRICKET INSULATION SHALL BE 0" THICK AT ITS LOWEST POINT AND TAPER AT A RATE OF $\frac{1}{2}$ " PER FOOT. SEE SHEET R3.1 FOR TYPICAL CRICKET INSULATION LAYOUTS.
- 11. THE CONTRACTOR SHALL PROVIDE CRICKET INSULATION ON THE UPSLOPE SIDE OF CURBED PENETRATIONS 30" OR WIDER AS SHOWN ON THE ROOF PLANS. SEE NOTE #10 FOR ADDITIONAL CRICKET INSULATION INFORMATION.
- 12. INSTALL PRE-FINISHED ALUMINUM AND COATED METAL COUNTERFLASHINGS IN ACCORDANCE WITH THE PROJECT DOCUMENTS. SEE APPLICABLE SECTIONS AND DETAILS.
- 13. THE CONTRACTOR SHALL INCLUDE SUCH TIME AND MATERIALS IN HIS BID AS REQUIRED TO MAKE WATERTIGHT CLOSURES AND TRANSITIONS WHERE DIFFERENT ROOF DETAILS INTERSECT OR WHERE A ROOF DETAIL TERMINATES. THESE WATERTIGHT CLOSURES SHALL BE MADE IN COMPLETE COMPLIANCE WITH ENGINEER APPROVED AND CONTRACTOR SUBMITTED SHOP DRAWINGS. CLOSURES SHALL BE MADE WITH FLASHING MEMBRANE, COATED METAL, PREFINISHED METAL, PMMA REINFORCED LIQUID FLASHING MEMBRANE AND OTHER APPROVED ACCESSORIES. SURFACE SEALANTS ARE NOT ACCEPTABLE AS THE PRIMARY CLOSURE COMPONENTS.
- 14. ALTERNATE No.1: (OXENDINE SCIENCE BUILDING ROOF AREAS '5', '6' & '7'): CONTRACTOR SHALL WRAP EXISTING PRECAST COPING STONE WITH THERMOPLASTIC FLASHING MEMBRANE AND PROVIDE NEW PERIMETER FASCIA SYSTEM AS SHOWN IN THE APPLICABLE SECTIONS AND DETAILS. EXISTING SEALANT JOINTS BETWEEN PRECAST COPING STONES TO REMAIN ALTERNATE No.2: (OXENDINE SCIENCE BUILDING - ROOF AREAS '8', '9' & '10'):
- REMOVE AND REPLACE EXISTING SEALANT JOINTS BETWEEN PRECAST COPING STONES. SEE TYPICAL DETAIL ON SHEET R4.2
- 15. THE CONTRACTOR SHALL PROVIDE A SEPARATION SHEET, COATING, OR OTHER APPROVED MEANS TO PREVENT CONTACT BETWEEN ALL DISSIMILAR METALS. 16. ALTERNATE 4 (OXENDINE SCIENCE BUILDING - ROOF AREA '8'):

FURNISH AND INSTALL EXTERNAL FIXED LADDER AT PENTHOUSE (ROOF AREA '8'). INCLUDES ASSOCIATED WALKWAYS.







Dwg.# 220476-R2002.DWG







LIVERMORE LIBRARY (ALTERNATE 3) ROOF PLAN



PLAN LEGEND Dwg.# 220476-R1001.DWG

0'-0"	••••	NEW INSULATION START THICKNESS
	•••••	ROOF SLOPE INDICATOR ARROW
	•••••	EXISTING ITEM TO BE REMOVED. SEE ASSOCIATED SECTIONS FOR MORE INFORMATION.
R.D.	•••••	ROOF DRAIN. SEE SECTION 5/ <mark>R2.1A</mark> , 3/ <mark>R2.2</mark> & 4/ <mark>R2.2</mark>
0.S.C.	•••••	OVERFLOW SCUPPER. SEE SECTION 3/ <mark>R2.2</mark> & 2/ <mark>R2.3</mark>
OR	•••••	PRE-FABRICATED EQUIPMENT RAIL/ SLEEPER CURB. SEE SECTION 5/ <mark>R2.2</mark>
	••••	HVAC UNIT/ ROOF CURB. SEE SECTION 4/ <mark>R2.1A</mark> , 1/ <mark>R2.2</mark> & 2/ <mark>R2.2</mark>
\bigcirc	••••	ROOF FAN/ MECHANICAL VENT. SEE SECTION 4/ <mark>R2.1A</mark> , 1/ <mark>R2.2</mark> & 2/ <mark>R2.2</mark>
HOT	•••••	HOT PIPE/ HOT STACK WITH CURB. SEE SECTION 3/ <mark>R3.1</mark>
ЮТ	•••••	HOT PIPE/ HOT STACK. SEE SECTION 3/ <mark>R2.2</mark>
P.P.	••••	PITCH POCKET. SEE SECTION 3/ <mark>R2.2</mark>
P.V. ()	•••••	PIPE VENT. SEE SECTION 1/ <mark>R3.1</mark> , 2/ <mark>R3.1</mark>
E.T.O. O	•••••	EXISTING FALL PROTECTION/ SAFETY TIE-OFF ANCHOR POST. SEE SECTION
	••••	NEW WALKWAY TREAD. SEE WALKWAY PLAN ON <mark>R3.1</mark>
	••••	AREAS WHERE INSULATION IS TO BE REMOVED AND REPLACED.
	- 	EXISTING METAL ROOF DECK DIRECTION - NEW LINE OF MEMBRANE FASTENERS TO RUN PERPENDICULAR TO DECK DIRECTION.











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1/16" = 1'-0" Dwg.# 220476-R2004.DWG R1.2

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PLAN LEGEND Dwg.# 220476-R1001.DWG NEW INSULATION START 0'-0" THICKNESS ------ ROOF SLOPE INDICATOR ARROW EXISTING ITEM TO BE REMOVED. ······ SEE ASSOCIATED SECTIONS FOR MORE INFORMATION. X ROOF DRAIN. SEE SECTION 5/<mark>R2.1A</mark>, 3/<mark>R2.2</mark> & 4/<mark>R2.2</mark> R.D O.S.C. OVERFLOW SCUPPER. SEE SECTION 3/<mark>R2.2</mark> & 2/<mark>R2.3</mark> PRE-FABRICATED EQUIPMENT RAIL/ SLEEPER CURB. ` t===⊐ SEE SECTION 5/<mark>R2.2</mark> HVAC UNIT/ ROOF CURB. SEE SECTION 4/<mark>R2.1A</mark>, 1/<mark>R2.2</mark> & 2/<mark>R2.2</mark> ROOF FAN/ MECHANICAL VENT. SEE SECTION 4/<mark>R2.1A</mark>, 1/<mark>R2.2</mark> & 2/<mark>R2.2</mark> HO HOT PIPE/ HOT STACK WITH CURB. ο SEE SECTION 3/<mark>R3.1</mark> HOT HOT PIPE/ HOT STACK. SEE SECTION 3/<mark>R2.2</mark> PITCH POCKET. P.P. 🗌 •••••• SEE SECTION 3/R2.2 PIPE VENT. P.V. O SEE SECTION 1/R3.1, 2/R3.1 EXISTING FALL PROTECTION/ E.T.O. O SAFETY TIE-OFF ANCHOR POST. SEE SECTION NEW WALKWAY TREAD. SEE WALKWAY PLAN ON <mark>R3.1</mark> _____ AREAS WHERE INSULATION IS TO BE REMOVED AND REPLACED. EXISTING METAL ROOF DECK DIRECTION - NEW LINE OF MEMBRANE FASTENERS TO RUN PERPENDICULAR

TO DECK DIRECTION.









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-SEE TYPICAL ROOF SYSTEM CROSS SECTION FOR ALL RELATED MATERIALS AND NOTES.

BACKED THERMOPLASTIC ROOF MEMBRANE. FULLY ADHERE TO PROJECT DOCUMENTS AND

COLD ADHERE TO NEW THERMAL PROJECT DOCUMENTS AND SPECIFICATIONS. INSTALL WITH







SEE TYPICAL ROOF SECTION FOR ALL RELATED MATERIALS AND NOTES.





ĔŇĠĬŇĔĖŔ GREENSBORO, NO CORPORATE OFFIC ASHEVILLE, NC CHARLESTON, SC CHARLOTTE, NC CHARLOTTESVILLE, VA RALEIGH-DURHAM, N WILMINGTON, NO QUALITY. INTEGRITY. INNOVATION SKA Consulting Engineers, Inc. 100 Capitola Drive, Suite 109 Durham, NC 27713-4411 t: 984 349 5990 www.skaeng.com NC License No. F-050 ese drawings are instruments of s all remain the property of SKA gineers, Inc. whether the project for avings are made is executed or not. The rawings are not to be used in part or in wh the owner or any other person or agend s or any other projects or extensions ect except by agreement in writing and opropriate compensation to SKA. © Copyr 024 by SKA Consulting Engineers, Inc. all ri served except as permitted under the es Copyright Act of 1976, no part ument may be reproduced or distrib ny form or by any means without the wermission of SKA Consulting Engineers oject Number 220476-R020 File Name: otted: 4/22/2024 9·09 A CH CARO FESSIO SEAL 055413 O MAINEE G AND LIVERMORE LIBRARY PEMBROKE, NORTH CAROLINA 28372 TIONS AND DETAILS -DING BUIL BUIL NCE 22-24 SCI NION CE 00 OXE PEMBROKE UNC DQS 04-22-2024 R2.2

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NEW CONT. COATED METAL RECEIVER. FABRICATED TO PROFILE SHOWN. SECURE TO EXISTING WALL SHEATHING W/ #12 S.S.

NEW CONT. .125" ALUMINUM TERMINATION BAR W/ INTEGRAL CAULK TRAY. SECURE THRU WALL FLASHING MEMBRANE TO EXISTING PLYWOOD SHEATHING W/ #12 S.S. SCREWS W/ EPDM SEALING WASHERS AT 8" O/C. PROVIDE A CONT. BEAD OF SEALANT IN CAULK TRAY AS SHOWN.

- NEW CONT. .050" PRE-FINISHED ALUMINUM COUNTERFLASHING. FABRICATE TO PROFILE SHOWN, SECURE TO NEW CONT, RECEIVER W/ S.S.

- NEW CONT. $\frac{1}{4}$ " THICK COVER BOARD. SECURE TO EXISTING PLYWOOD SHEATHING W/ TWO (2) ROWS OF #12 S.S. SCREWS AND 3" DIA. GALVALUME PLATES AT 12" O/C STAGGERED TOP AND BOTTOM.

- NEW CONT. FLEECE/FELT BACKED THERMOPLASTIC ROOF MEMBRANE. FULLY ADHERE TO NEW COVER BOARD IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND

・NEW CONT. ½" COVER BOARD. MECHANICALLY ATTACH AS A COMPOSITE WITH THE EXISTING COVER BOARD, EXIST. THERMAL ROOF INSULATION AND GYPSUM COVER BOARD, INTO METAL ROOF DECK IN ACCORDANCE WITH THE PROJECT

EXISTING WOOD FIBER CANT TO BE REMOVED AND DISPOSED OF FROM SITE. TRIM REMAINING EXISTING

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R2.4 3" = 1'-0" Dwg.# 220476-R6032.DWG

EXTERIOR PARAPET WALL - ELEVATION OXENDINE SCIENCE BUILDING - ROOF AREA '5', '6' AND '7' (ALTERNATE 1) 3 R2.4 3" = 1'-0" Dwg.# 220476-R6014.DWG

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- EXISTING METAL WALL PANEL. – EXISTING COUNTERFLASHING RECEIVER. - NEW CONT. .125" ALUMINUM TERMINATION BAR W/ INTEGRAL CAULK TRAY. SECURE THRU WALL FLASHING MEMBRANE TO EXISTING PLYWOOD SHEATHING W/ $\frac{1}{4}$ " S.S. TAPCON SCREWS W/ EPDM SEALING WASHERS AT 8" O/C. PROVIDE A CONT. BEAD OF SEALANT IN CAULK TRAY AS SHOWN. - NEW CONT. .050" PRE-FINISHED ALUMINUM COUNTERFLASHING. FABRICATE TO PROFILE SHOWN. SECURE TO NEW CONT. RECEIVER W/ S.S. POP RIVETS AT 6" O/C. NEW CONT. 1/4" THICK COVER BOARD. SECURE TO EXISTING MASONRY WALL W/ TWO (2) ROWS OF $\frac{1}{4}$ " S.S. TAPCON SCREWS AND 3" DIA. GALVALUME PLATES AT 12" O/C STAGGERED TOP AND BOTTOM. - NEW CONT. FLEECE/FELT BACKED THERMOPLASTIC ROOF MEMBRANE. FULLY ADHERE TO NEW COVER BOARD IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND SPECIFICATIONS. NEW CONT. $\frac{1}{2}$ " COVER BOARD. MECHANICALLY ATTACH AS A COMPOSITE WITH THE EXISTING COVER BOARD, EXIST. THERMAL ROOF INSULATION AND GYPSUM COVER BOARD, INTO METAL ROOF DECK IN ACCORDANCE WITH THE PROJECT MIN. DOCUMENTS AND SPECIFICATIONS. R2.5 L SEE TYPICAL ROOF SYSTEM CROSS SECTION FOR ALL RELATED MATERIALS AND NOTES. EXISTING WOOD FIBER CANT TO BE REMOVED AND DISPOSED OF FROM SITE. TRIM REMAINING EXISTING B.U.R. AS SHOWN.

PENTHOUSE BASE OF WALL (ROOF AREA '9') - SECTION OXENDINE SCIENCE BUILDING - ROOF AREA '8' (ALTERNATE 2) 3" = 1'-0" Dwg.# 220476-R6022.DWG

PENTHOUSE DOOR THRESHOLD - SECTION OXENDINE SCIENCE BUILDING - ROOF AREA '8' (ALTERNATE 2) 2 R2.5 3" = 1'-0" Dwg.# 220476-R6021.DWG

AS SHOWN.

R2.5 3" = 1'-0" Dwg.# 220476-R6023.DWG

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- CONT. BEAD OF SPECIFIED SEALANT.

- NEW CONT. THERMOPLASTIC WALL FLASHING MEMBRANE. SEE 3/R2.6.

- NEW VERTICAL SPRING LOADED .050" PRE-FINISHED ALUMINUM COUNTERFLASHING. EXTEND UNDER COUNTERFLASHING ABOVE. SEE 3/R2.6.

MEMBRANE INTO EXISTING MASONRY

OF TERMINATION BAR AS SHOWN.

CONT. BEAD OF SPECIFIED SEALANT. NEW VERTICAL SPRING LOADED .050" PRE-FINISHED ALUMINUM COUNTERFLASHING. SECURE INTO BRICK VENEER W/ ¼" DIA. S.S. CONCRETE SCREWS AND EPDM WASHERS AT 8" O/C. EXTEND UNDER COUNTERFLASHING ABOVE. SEE PARTIAL ELEVATION 1/R2.6.

3" = 1'-0" Dwg.# 220476-R7011.DWG

R2.6

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