

DINWIDDIE ELEMENTARY EXTERIOR REPAIRS DINWIDDIE COUNTY PUBLIC SCHOOLS RRMM ARCHITECTS, PC

0 6" 1' 2' 3'

1/2"=1'-0"

0 6" 1'

3/4"=1'-0"

0 1' 2' 3' 4'

3/8"=1'-0"

0 2' 4' 6'

1/4"=1'-0"

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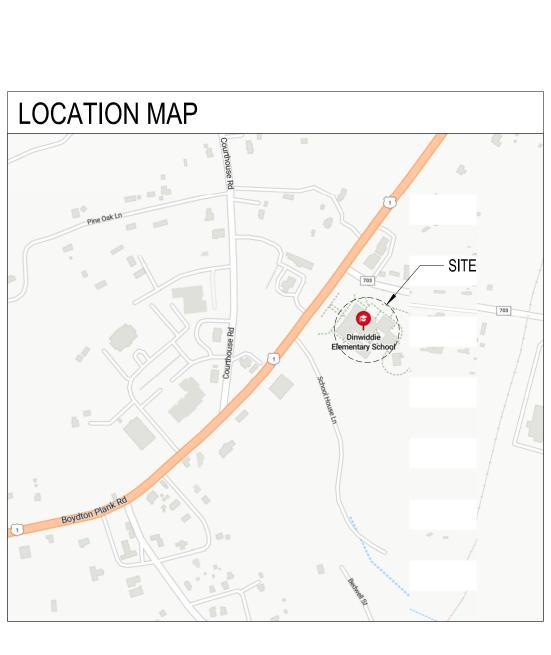
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MECHANICAL DEMOLITION AND NEW WORK -

28 Church Avenue SW Roanoke, VA 24011 (540) 344-1212

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0 3" 6" 9" 1' 1.5'	0 3" 6" 9" 1'	0 1" 2" 3" 4" 5" 6"	0 1" 2" 3"	0
1"=1'-0"	1 1/2"=1'-0"	3"=1'-0"	6"=1'-0"	12"=1'-0"
4			5	



DISCLAIMER GRAPHIC INF DO NOT REL DIMENSIONA

	RAL EXTERIOR REPAIR NOTES DINWIDDIE ELEMENTARY SCHOOL WAS ORIGINALLY CONSTRUCTED IN 1939, AND A MAJOR ADDITION WAS COMPLETED IN 1999. THE SCOPE OF THE REPAIRS IS BASED	1.02	HAZARDO THE PRES
	ON RECOMMENDATIONS OUTLINED BY RRMM IN THE AUGUST 19, 2020 EXTERIOR INVESTIGATION REPORT. THE SCOPE OF WORK FOR THE PROJECT GENERALLY INCLUDES THE FOLLOWING:		CONDITIO
	A. REPAIR OR REPLACEMENT OF DAMAGED OR DETERIORATED CAST STONE WINDOWSILLS.	4.00	FIRMS SH
	 B. REPAIR OR REPLACEMENT OF DAMAGED CAST STONE PILASTER CAPS. C. REPLACEMENT OF EXISTING GUTTERS AND DECORATIVE CORNICE. DEPAIR OF DETERMENTED MOOD FILEMENTE AT EXTERIOR FUTER AND CANODISC. 		CONTRAC
	 D. REPAIR OF DETERIORATED WOOD ELEMENTS AT EXTERIOR ENTRY PORCHES AND CANOPIES. E. ISOLATED SLATE ROOF REPAIRS. 	1.04	ALL DISCA
	DRAWINGS ARE NOT AVAILABLE FOR THE 1939 CONSTRUCTION. REPAIR DRAWINGS WERE BASED ON A LIMITED SITE SURVEY TO DOCUMENT GENERAL DIMENSIONS AND CONDITIONS WHICH ARE SHOWN IN THE DRAWINGS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND PROVIDE INFORMATION TO THE	1.05	MATERIAL ACCORDA
	ARCHITECT/ENGINEER FOR REVIEW AND ACTION. THESE INCLUDE BUT ARE NOT LIMITED TO:	1.06	MATERIAL
	 QUANTITY OF MISSING SLATE ROOF TILE. B. CONDITION OF ALL EXISTING CAST STONE ELEMENTS WITH CLASSIFICATION OF EACH DETERIORATED ELEMENT AS EITHER REPAIR IN-PLACE OR REPLACE. 		NOT BEEN COMPRON
	C. EXISTING UNDERGROUND STORMWATER PIPE DIAMETERS, MAXIMUM AND MINIMUM DOWNSPOUT DIAMETERS THAT CAN BE ACCOMMODATED AT EACH STORMWATER PIPE CONNECTION.		PROTECT TO DAMA
	D. AS-BUILT DRAWINGS OF EXISTING BEAM CONFIGURATION ABOVE PORCH COLUMNS SO THAT CONNECTIONS FOR NEW COLUMNS TO EXISTING BEAMS CAN BE DEVELOPED.	1 07	STORAGE
	E. CONDITION OF EXISTING CANOPY SUPPORTS WITH CLASSIFICATION OF EACH DETERIORATED ELEMENT AS EITHER REPAIR IN-PLACE OR REPLACE.		NOTIFY TH
	UNIT PRICES SHALL BE PROVIDED AS PART OF THE INITIAL BID AND USED TO MODIFY THE TOTAL PRICE OF WORK UP OR DOWN BASED ON FIELD VERIFIED QUANTITIES. PROVIDE UNIT PRICES FOR THE FOLLOWING ELEMENTS, INCLUDE COST FOR EACH ELEMENT IN THE BASE BID BASED ON THE QUANTITIES LISTED.	1.08 1.09	ALL PRIMA
	 REPLACEMENT OF SLATE SHINGLES TO MATCH EXISTING: ASSUME 300 SLATE SHINGLES. INSTALLATION OF NEW ROOF UNDERLAYMENT AT SLATE SHINGLE REPAIR: ASSUME 350 SQUARE FEET. 	1.10 1.11	CONTRAC CONTRAC
	C. CAST STONE PATCH REPAIR: ASSUME 65 SQUARE FEET OF PATCHING.	REGU	LATIONS.
	 D. CAST STONE CRACK REPAIR: ASSUME 40 LINEAR FEET OF CRACK REPAIR. E. CAST STONE REPLACEMENT: ASSUME REPLACEMENT OF 5 CAST STONE WINDOWSILLS, 4VERTICAL PILASTER CAP ELEMENTS, AND 2 SLOPED PILASTER CAP 	1.12	CONTRAC
	ELEMENT. F. WOOD MEMBER REPLACEMENT AT CANOPIES: ASSUME 30 BOARD FEET OF 4X4 MEMBERS TO BE REPLACED.		SION 04 CA Cast Sto
05	THE WORK IS EXCLUSIVELY LIMITED TO THE AREAS INDICATED IN THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS, MATERIALS, DIMENSIONS, LOCATIONS, AND ELEMENTS		REPAIR O EXISTING
	TO REMAIN IN THE FIELD BEFORE PROCEEDING WITH ANY WORK. IF CONDITIONS VARY FROM WHAT IS PRESENTED IN THE DRAWINGS,	1.02	A. MORE
	THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER. CONTRACTOR SHALL COMPLY WITH ALL CODES, ORDINANCES, RULES, REGULATIONS, ORDERS, AND OTHER LEGAL REQUIREMENTS OF		B. IF DEL C. MORE
	PUBLIC AUTHORITIES WHICH BEAR ON THE PERFORMANCE OF WORK. SECTION CUTS AND DETAIL CALLOUTS INDICATED IN THE DRAWINGS ARE TYPICAL FOR THE PROJECT UNLESS EXPRESSLY DEFINED	1.03	DEFINITIC A. DRY C
	OTHERWISE. THEY ARE TO BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AND HAVE NOT BEEN SHOWN EVERYWHERE THEY APPLY		B. VIBRA
	WITHIN THE WORK AREA. SYMBOLS IN THE DRAWINGS ARE NOT TO SCALE. DO NOT SCALE DIMENSIONS FROM THE DRAWINGS.		COMP C. MACH
ONS	TRUCTION NOTES		AGAIN D. WET C
)1	THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS NECESSARY FOR THE CONSTRUCTION OPERATIONS, INCLUDING ALL SUBDIVISIONS THEREOF, AND		E. WET C F. CSI - C
	SHALL BE SOLELY RESPONSIBLE FOR THE EXECUTION OF THE WORK IN ITS ENTIRETY, WHETHER SUBLET OR EXECUTED BY THE CONTRACTOR'S OWN ORGANIZATION.	1.04	UNIT PRIC
	PRIOR TO THE EXECUTION OF WORK, THE CONTRACTOR SHALL COORDINATE A PRE-CONSTRUCTION MEETING ON-SITE WITH THE OWNER, ARCHITECT/ENGINEER, AND REPRESENTATIVES FROM ANY TRADES PERFORMING WORK TO REVIEW THE PROJECT DETAILS, SCHEDULE, ANTICIPATED INSTALLATION, AND SUBMITTALS.		A. PORTI CONT
	THE WORK SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER, WHO WILL APPROVE ALL PHASING AND SCHEDULING OF THE WORK. A PROPOSAL FOR SCHEDULING AND PHASING OF THE WORK SHALL BE SUBMITTED AS PART OF THE PRICING SUBMISSION USING		THAT B. CONT
	THE CRITICAL PATH METHOD. WORK SHALL BE PERFORMED ACCORDING TO THE APPROVED CONSTRUCTION SCHEDULE AND PHASING PLAN AT THE TIME MUTUALLY AGREED TO BY THE OWNER AND CONTRACTOR.		LOCA
4	CONTRACTOR SHALL HAVE LIMITED ACCESS TO AREAS OUTSIDE THE LOCATIONS WHERE CONSTRUCTION IS SHOWN. ACCESS TO WORK	1.05	STON PREINSTA
	AREAS AND STORAGE OF MATERIALS SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE IMPACT ON BUILDING OCCUPANTS. USE OF INTERIOR SPACE AND OTHER AREAS, OUTSIDE OF DEFINED LIMITS OF CONSTRUCTION, WILL BE EVALUATED ON AN AS NEEDED BASIS.		MEETING. SUBMITTA
	REQUESTS MUST BE MADE TO THE OWNER IN WRITING AT LEAST SEVEN (7) DAYS IN ADVANCE. CONTRACTOR PARKING IS LIMITED AND SHALL BE COORDINATED WITH THE OWNER. PARKING SHALL ONLY BE PERMITTED IN		PRESENT A. OWNE
•	PREDETERMINED LOCATIONS APPROVED IN WRITING BY THE OWNER. THE CONTRACTOR SHALL NOT PARK OR STORE MATERIAL OR EQUIPMENT IN LOCATIONS THAT IMPEDE THE OPERATIONS OF THE OWNER OR RESTRICT ACCESS AND USE OF THE FACILITIES BY		B. ARCH
	STUDENTS, FACULTY, OR STAFF.		C. CONT D. CONT
-	COORDINATE LAYDOWN AREAS WITH THE OWNER. EQUIPMENT AND MATERIALS SHALL BE STORED IN DESIGNATED AREAS AND SHALL NOT ENCUMBER THE PUBLIC, SURROUNDING RIGHT OF WAY, OR ADJOINING GROUNDS. DELIVERIES SHALL BE SCHEDULED TO MINIMIZE	1.06	E. FORE
	USE OF DRIVEWAYS AND ENTRANCES, AS WELL AS SPACE AND TIME REQUIREMENTS FOR STORAGE OF MATERIALS AND EQUIPMENT ON-SITE.		A. PROD
7	OWNER DINING AND TOILET FACILITIES WILL NOT BE AVAILABLE FOR CONTRACTOR USE.		WITH B. SHOP
	NOTIFY THE OWNER AND THE ARCHITECT/ENGINEER OF VISIBLE CHANGES IN THE INTEGRITY OF MATERIALS OR COMPONENTS THAT DIFFER FROM THE DRAWINGS, WHETHER DUE TO ENVIRONMENTAL CAUSES (INCLUDING BIOLOGICAL GROWTH, UV DEGRADATION,		DIMEN FINISH
	FREEZING, OR THAWING) OR DUE TO STRUCTURAL DEFECTS (INCLUDING CRACKS, MOVEMENT, OR DISTORTION). DO NOT PROCEED WITH THE WORK IN QUESTION UNTIL DIRECTED BY THE OWNER AND THE ARCHITECT/ENGINEER.		CONS
)9	OBTAIN OWNER AND ARCHITECT/ENGINEER REVIEW AND WRITTEN APPROVAL IN THE FORM OF A CONSTRUCTION CHANGE DIRECTIVE OR		OTHE C. SAMP
	SUPPLEMENTAL INSTRUCTION BEFORE MAKING CHANGES OR ADDITIONS TO CONSTRUCTION OR REMOVING MATERIALS THAT WERE INTENDED TO REMAIN.		1. PF C/
-	THE CONTRACTOR IS FULLY RESPONSIBLE FOR ALL QUALITY CONTROL MEASURES FOR THIS PROJECT. ALL WORK AREAS SHALL BE CLEANED DAILY. EQUIPMENT AND MATERIALS SHALL BE STORED IN AREAS DESIGNATED BY THE OWNER.		2. PF D. QUAL
	MATERIAL STORED ON ELEVATED PLATFORMS OR ROOF LOCATIONS SHALL BE SECURED IN PLACE USING TEMPORARY MEANS. LIQUID WASTE MUST NOT BE DISPOSED OF IN GENERAL TRASH, ON THE GROUND, OR IN THE STORM SEWER.	4 07	SIMIL
13	CONTRACTOR SHALL FOLLOW THE STANDARD OPERATING PROCEDURES ON CONCRETE, MASONRY MATERIALS, AND SAW CUTTING	1.07	MOCK-UF A. CONS
	POLLUTION CONTROL IN ACCORDANCE WITH OSHA STANDARDS.		INTEN B. APPR
	ORARY PROTECTION	1.08	SPEC
	TEMPORARY CONSTRUCTION BARRIERS, TEMPORARY WEATHER BARRIERS, PEDESTRIAN PROTECTION, AND ALL NECESSARY TEMPORARY FACILITIES AND PROTECTION BARRIERS SHALL BE CONSTRUCTED OR INSTALLED IN ACCORDANCE WITH OSHA AND ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS, AND		A. PACK
	AS REQUIRED BY THE 2021 VIRGINIA CONSTRUCTION CODE. A. PROVIDE A MINIMUM OF 8-FOOT TALL FENCING WITH PRIVACY SCREENS AT PERIMETER OF WORK AREAS. FENCING SHALL BE PROVIDED WITH WEIGHTED BASE		B. LIFT V WOOL
	UNITS. CONTRACTOR SHALL PROVIDE SIGNAGE AT DOORS THAT LEAD INTO THE WORK AREA THAT WILL BE CLOSED DURING THE EXECUTION OF WORK.		C. STOR AND T
	PROVIDE FACILITIES AND SERVICES REQUIRED TO COMPLY WITH VIRGINIA CONSTRUCTION CODE CHAPTER 33, "SAFEGUARDS DURING CONSTRUCTION;" FHWA MUTCD CHAPTER 6, "TEMPORARY TRAFFIC CONTROL;" AND ANSI A10.34 "PROTECTING PUBLIC NEAR CONSTRUCTION SITES." THE MOST STRINGENT REQUIREMENT SHALL		D. STOR DISTC
	GOVERN UNDER CIRCUMSTANCES OF OVERLAPPING STANDARD REQUIREMENTS. ACCESSIBLE EGRESS TO AND FROM THE BUILDINGS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE APPROVED OR AS		E. PLACE
-	DIRECTED BY THE OWNER. ADEQUATE PROTECTION FOR THE EXISTING BUILDINGS IN ACCORDANCE WITH ADA, OSHA, AND ALL APPLICABLE STATE CODES AND OWNER REQUIREMENTS SHALL BE PROVIDED. MEASURES SHALL BE TAKEN TO ENSURE GENERAL SAFETY		F. HAND G. LIFT A
	IS HELD PARAMOUNT THROUGH THE ENTIRE DURATION OF THE WORK. WORK SHALL BE CONDUCTED IN A MANNER THAT PROVIDES THE		H. MORT ACCC
4	LEAST INTERFERENCE WITH OWNER AND OCCUPANT ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF BUILDING COMPONENTS ADJACENT TO AREAS OF WORK INDICATED TO		I. DELIV
	REMAIN, MATERIALS, AND EQUIPMENT DURING THE ENTIRE PERIOD OF CONSTRUCTION. CONTRACTOR SHALL PROTECT ANY OPEN AREAS FROM WIND, SNOW, AND RAIN DAMAGE BEFORE THE END OF EACH WORKING DAY.	x -	J. COMF
	DAMAGE TO PORTIONS OF THE EXISTING BUILDINGS NOT SUBJECT TO WORK UNDER THE CONTRACT SHALL BE REPAIRED TO THE FULL	1.09	PROTECT A. COLD
6	SATISFACTION OF THE OWNER, AT THE CONTRACTOR'S EXPENSE. PROTECT FROM INJURY OR DAMAGE ALL ON-SITE TREES, SHRUBBERY, AND OTHER PLANTINGS ADJACENT TO THE WORK AREA. REPLACE DAMAGED TREES AND		COMF 1. C
ANTI	NG WITH LIKE MATERIAL AT NO ADDITIONAL COST TO THE OWNER AND AS APPROVED AND DIRECTED BY THE OWNER ARBORIST.		C
7	TEMPORARY MATERIALS MAY BE NEW OR USED BUT MUST BE ADEQUATE IN CAPACITY FOR REQUIRED USAGE, MUST NOT CREATE	2.01	B. Hot-\ Manufa(
	UNSAFE CONDITIONS, AND MUST NOT VIOLATE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS. WOOD PRODUCTS USED FOR TEMPORARY MATERIALS IN PROXIMITY TO STRUCTURE SHALL BE FIRE RETARDANT MATERIALS.		A. SOUR B. SOUR
	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DUST AND ODOR CONTROL MEASURES. CONTRACTOR SHALL PROVIDE FILTERS OR COVERS AS REQUIRED TO PREVENT THE INTAKE OF DUST, OVERSPRAY, OR FUMES INTO THE EQUIPMENT OR THE BUILDINGS.		CEME C. SOUR
	CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OR REPLACEMENT OF ANY ITEMS DAMAGED OR AFFECTED BY INADEQUATE PROTECTION AND DUST CONTROL MEASURES.	2.02	CAST ST
9	THE CONTRACTOR SHALL INSTALL ALL PROTECTION REQUIRED TO COMPLY WITH OSHA CFR 1926.1153 "RESPIRABLE CRYSTALLINE SILICA,"		A. GENE AND S
	THE CONTRACT DOCUMENTS, STATE, FEDERAL, AND LOCAL JURISDICTIONS AND TO PROTECT ADJACENT AREAS FROM DUST AND FLYING DEBRIS PRIOR TO BEGINNING DEMOLITION.		ACCU
	CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. DO NOT OBSTRUCT ROADWAYS, SIDEWALKS, OR OTHER PUBLIC WAYS WITHOUT COORDINATION AND WRITTEN PERMISSION FROM THE		B. PORT
	OWNER.		PROV C. COAF
	CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE FIRE PROTECTION IN THE FORM OF A FIRE EXTINGUISHER OR OTHER EFFECTIVE MEANS OF EXTINGUISHING FIRE, READY FOR INSTANT USE, DISTRIBUTED AROUND THE PROJECT AND IN AND ABOUT TEMPORARY		STON D. FINE
	INFLAMMABLE STRUCTURES DURING CONSTRUCTION OF WORK. EXISTING FIRE HOSE CONNECTIONS SHALL BE ACCESSIBLE AT ALL TIMES BY FIRE DEPARTMENT PERSONNEL. MATERIALS AND DEBRIS SHALL NOT BE STORED IN FRONT OF THE CONNECTION, THUS PREVENTING		STON E. COLC
	ACCESS. AVOID ACCUMULATIONS OF COMBUSTIBLE FORMS, FORM LUMBER, AND DEBRIS WITHIN CONSTRUCTION SITE. THE CONTRACTOR SHALL COORDINATE ACCESS PROCEDURES WITH THE FIRE MARSHAL.		BLAC
3	ALL EXISTING FIRE PROTECTION SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. IF TEMPORARY SHUTDOWN IS NECESSARY. THE SYSTEM SHALL BE RETURNED TO OPERATIONAL CONDITION AS SOON AS POSSIBLE AND NO LATER THAN THE END OF		F. ADMI 1. D
	EACH WORKING DAY PRIOR TO THE CONTRACTOR LEAVING THE JOB SITE. THE CONTRACTOR IS TO NOTIFY THE FIRE MARSHAL PRIOR TO		AI 2. US
	ANY NECESSARY SHUTDOWNS. ANY NECESSARY SHUTDOWNS SHALL NOT AFFECT OTHER AREAS NOT INVOLVED WITH THIS CONSTRUCTION PROJECT.		3. AI
4	ALL OPERATIONAL STANDPIPES ARE TO BE MAINTAINED AT ALL TIMES. GASOLINE AND OTHER FLAMMABLE LIQUIDS SHALL BE STORED AND DISPENSED FROM UL LISTED SAFETY CONTAINERS IN CONFORMANCE		4. W
	WITH NATIONAL BOARD OF FIRE UNDERWRITER'S RECOMMENDATIONS. STORAGE SHALL NOT BE WITHIN BUILDINGS.		5. W 6. W
	TORCH-CUTTING, WELDING, AND OTHER "HOT" WORK OPERATIONS PERFORMED BY CONTRACTOR OR SUB-CONTRACTORS SHALL HAVE APPROVAL OF OWNER BEFORE SUCH WORK IS COMMENCED, AND CHEMICAL FIRE EXTINGUISHERS SHALL BE AVAILABLE AT LOCATION		G. REINF
	WHERE SUCH WORK IS IN PROGRESS. CONTRACTOR SHALL MAINTAIN A FIRE WATCH AFTER ALL HOT WORK FOR A MINIMUM OF FOUR HOURS OR AS OTHERWISE REQUIRED BY THE OWNER.		Tł
17	CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS OF WATER DAMAGES RESULTING FROM THE CONTRACTOR'S CONSTRUCTION		2. EF 3. G/
	ACTIVITIES. CONTRACTOR SHALL REPLACE ANY MATERIALS OR EQUIPMENT DAMAGED, LOST, OR STOLEN WITHOUT ADDITIONAL COST TO THE OWNER. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING, WITH PHOTOGRAPHS, ANY		4. PL 5. G/
	EXISTING DAMAGE IN AREAS WHERE WORK IS SCHEDULED. RECORD OF EXISTING DAMAGE SHALL BE PROVIDED TO THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK.		6. FI
			H. FABR 1. V/
N 774	ION 02 DEMOLITION NOTES		2. V/ N(
			141
)1	PRIOR TO DEMOLITION FOR CAST STONE REPAIRS, SLATE ROOFING REPAIRS, OR CANOPY AND PORCH REPAIR, CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND SUBMIT A SUMMARY OF THE REPAIR TYPES AND QUANTITIES FOR EACH REPAIR FOR APPROVAL BY THE ARCHITECT/ENGINEER BEFORE CONTINUING WITH WORK.		3. W 4. L(

ERIALS: CONTRACTOR SHALL ENGAGE A QUALIFIED TESTING AGENCY TO SURVEY THE PORTION OF THE SCHOOL CONSTRUCTION IN 1939 TO IDENTIFY CURE UNITS AS FOLLOWS: OF LEAD, PCB'S OR ASBESTOS AT PAINTED CORNICE, ROOF UNDERLAYMENT, SEALANTS, EXISTING FLASHINGS, OR OTHER SUSPECT EXISTING CURE UNITS IN ENCLOSED, MOIST CURING ROOM AT 95 PERCENT RELAT AT COULD BE DISTURBED AS PART OF THE DEMOLITION SCOPE. ENGAGE A QUALIFIED ABATEMENT FIRM TO REMOVE ANY LEAD OR ASBESTOS HOURS. KEEP UNITS DAMP AND CONTINUE CURING TO COMPLY WITH ONE OF THE ERIALS AND DISPOSE OF ABATED MATERIALS IN ACCORDANCE WITH LOCAL AND STATE REQUIREMENTS. QUALIFIED INSPECTION AND ABATEMENT VE A MINIMUM OF 5 YEARS EXPERIENCE PERFORMING SIMILAR WORK IN THE COMMONWEALTH OF VIRGINIA. NO FEWER THAN FIVE DAYS AT MEAN DAILY TEMPERATURE OF 70 DEG F) FULLY RESPONSIBLE FOR MEANS AND METHODS OF DEMOLITION AND SHALL MAINTAIN THE INTEGRITY AND STABILITY OF THE EXISTING STRUCTURE NO FEWER THAN SEVEN DAYS AT MEAN DAILY TEMPERATURE OF 50 DEG ITION AND REPAIRS UNTIL THE WORK IS COMPLETED. NO PORTIONS OF THE STRUCTURE SHALL BE PERMITTED TO FALL OR DROP. ACID ETCH UNITS AFTER CURING TO REMOVE CEMENT FILM FROM SURF. MATERIAL SHALL BE DISPOSED OF PROPERLY OFFSITE. CONTRACTOR SHALL PROVIDE A PLAN FOR REMOVAL OF DISCARDED MATERIAL THROUGH J. SETTING MORTAR FOR CAST STONE REPLACEMENT UNITS: ITH PROVISIONS FOR THE PROTECTION OF INTERIOR SURFACES AND WALKWAYS FROM DAMAGE DUE TO CONSTRUCTION TRAFFIC. PORTLAND CEMENT: ASTM C150/C150M, TYPE I OR II, EXCEPT TYPE III MAY CATED TO BE REMOVED, DISCARDED, OR DISPOSED OF SHALL BE REMOVED FROM THEIR EXISTING LOCATION AND DISPOSED OF OFFSITE IN CEMENT AS REQUIRED TO PRODUCE MORTAR COLOR INDICATED. 'ITH LOCAL, STATE, AND FEDERAL REQUIREMENTS AND GUIDELINES. 2. HYDRATED LIME: ASTM C207, TYPE S. CATED TO BE REMOVED AND SALVAGED SHALL BE REMOVED IN A MANNER THAT LIMITS DAMAGE OR DEGRADATION. ONLY MATERIALS THAT HAVE 3. WATER: POTABLE. ED, BROKEN, CRACKED, OR OTHERWISE DAMAGED SUCH THAT THE ORIGINAL FUNCTION, APPEARANCE, OR DURABILITY HAS NOT BEEN MORTAR PIGMENTS: NATURAL AND SYNTHETIC IRON OXIDES AND CHRON SHALL BE SALVAGED. AS DEMOLITION PROGRESSES, CATALOGUE MATERIALS INDICATED TO BE SALVAGED AND STORE OFF THE GROUND. C979/C979M. USE ONLY PIGMENTS WITH A RECORD OF SATISFACTORY P IM WEATHER UNTIL THEY CAN BE REINSTALLED. NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IF REPLACEMENT MATERIALS ARE REQUIRED DUE FORMULATE BLEND AS REQUIRED TO PRODUCE COLOR, AS SELECTED F MATERIALS INDICATED TO BE SALVAGED. MATERIALS DAMAGED DUE TO AGGRESSIVE OR CARELESS DEMOLITION PROCEDURES OR IMPROPER OF COLOR. BE REPLACED AT NO COST TO THE OWNER. AGGREGATE FOR MORTAR: ASTM C144. SEEN OR OTHER CONDITIONS ARE REVEALED DURING DEMOLITION THAT WOULD AFFECT INSTALLATION OF THE WORK SHOWN IN THE DRAWINGS. K. ACCESSORIES: HITECT/ENGINEER IMMEDIATELY ANCHORS: TYPE AND SIZE AND SIZE TO BE DETERMINED ONCE EXISTING ILITIES DISCOVERED DURING DEMOLITION SHALL BE PROPERLY PRESERVED AND PROTECTED. BE REPLACED. FABRICATED FROM TYPE 304 STAINLESS STEEL COMPLY HALL PROTECT EXISTING PLANT MATERIAL NOT DESIGNATED FOR REMOVAL OR RELOCATION FROM DAMAGE DURING CONSTRUCTION. PROPRIETARY ACIDIC CLEANER: MANUFACTURER'S STANDARD-STRENG OTHER NEW CONSTRUCTION STAINS FROM NEW MASONRY WITHOUT DI HALL KEEP ALL SURROUNDING AREAS AND DRAINAGE SYSTEMS FREE FROM DIRT, MUD, AND CONSTRUCTION DEBRIS AT ALL TIMES. HALL REMOVE MISCELLANEOUS ITEMS AS NECESSARY TO FACILITATE CONSTRUCTION IN ACCORDANCE WITH STATE, LOCAL, AND OWNER FOR INTENDED USE BY CAST STONE MANUFACTURER AND EXPRESSLY AP 1AS DRIED, BUT NO FEWER THAN SEVEN DATS AFTER COMPLETING CLEANIN B. HOT-WEATHER REQUIREMENTS: COMPLY WITH HOT-WEATHER CONSTRUCTION REQUIREMENTS IN TMS 602. MASONRY MATERIALS. HALL BE RESPONSIBLE FOR THE REPAIR OF ANY ITEMS DAMAGED DURING CONSTRUCTION. L. MORTAR MIXES: 2.01 REPLACEMENT BRICK: PROVIDE ASTM C216 GRADE SW, TYPE FBS BRICK OF SIZE, COLOR, AND TEXTURE TO MATCH EXISTING. PROVIDE PORTLAND CEMENT-LIME (PCL) MORTAR COMPLYING WITH ASTM C270, TYPE N PROPORTION SPECIFICATION. ONE MASONRY 2.03 CAST STONE PATCH REPAIR MATERIALS. PROVIDE PREMIXED CEMENTITIOUS REPAIR MATERIALS FORMULATED TO MATCH THE COLOR AND TEXTURE OF THE EXISTING PAIRS INCLUDE REMOVAL AND REPLACEMENT OF CAST STONE ELEMENTS, PATCH REPAIR OF SPALLED OR DELAMINATED CAST STONE ELEMENTS, AND HISTORIC LIME MORTAR TO ALIGN WITH THE ACTUAL MORTAR MATERIALS IDENTIFIED. CAST STONE, AND DO NOT CONTAIN ANY ACRYLIC, LATEX, OR OTHER SYNTHETIC POLYMER ADDITIVES. KS WITHIN CAST STONE ELEMENTS. A. PROVIDE JAHN M90 REPAIR MORTAR OR APPROVED EQUAL. COLOR MATCH TO BE APPROVED BY THE OWNER. A. PORTLAND CEMENT: ASTM C150/C150M, TYPE I; WHITE OR GRAY WHERE REQUIRED FOR COLOR MATCHING OF MORTAR. STONE ELEMENTS SHALL BE REMOVED AND REPLACED IF THE FOLLOWING IS IDENTIFIED: 2.04 ENGAGE A QUALIFIED INDEPENDENT TESTING AGENCY TO SAMPLE AND TEST CAST STONE UNITS ACCORDING TO ASTM C1364. 1. PROVIDE CEMENT CONTAINING NOT MORE THAN 0.60 PERCENT TOTAL ALKALI WHEN TESTED ACCORDING TO ASTM C114. 40% OF THE EXPOSED SURFACE AREA IS DELAMINATED OR SPALLED. B. HYDRATED LIME: ASTM C207, TYPE S. 3.01 DEMOLITION: FIONS OR SPALLS IN THE CAST STONE ELEMENT ARE MORE THAN 50% OF THE OVERALL DEPTH OF THE CAST STONE ELEMENT. C. MORTAR SAND: ASTM C144 UNLESS OTHERWISE INDICATED. A. CAST STONE REPLACEMENT: REMOVE EXISTING CAST STONE ELEMENTS AND CLEAN EXISTING SURFACES TO REMAIN TO PREPARE FOR INSTALLATION OF NEW 40% OF THE EXPOSED SURFACE IS CRACKED. CAST STONE. MATCH. 1. PROVIDE TEMPORARY SHORING OF ELEMENTS TO REMAIN TO PREVENT MOVEMENT, SAGGING OR DISPLACEMENT OF EXISTING ELEMENT BEARING ON CAST IANUFACTURED FROM ZERO SLUMP CONCRETE 2. COLORED MORTAR: NATURAL SAND OR GROUND MARBLE, GRANITE, OR OTHER SOUND STONE OF COLOR NECESSARY TO PRODUCE REQUIRED MORTAR COLOR. STONE. / TAMP - DRY CAST METHOD USING VIBRATORY RAMMING OF EARTH MOIST, ZERO-SLUMP CONCRETE AGAINST A RIGID MOLD UNTIL IT IS DENSELY 3. PROVIDE SAND WITH SHAPES MATCHING EXISTING. 2. VISUALLY INSPECT CONDITIONS PRIOR TO DEMOLITION TO IDENTIFY ANY FLASHING OR DRAINAGE COMPONENTS. PERFORM DEMOLITION IN A MANNER THAT DOES NOT DAMAGE EXISTING FLASHING OR DRAINAGE ELEMENTS. IF FLASHINGS ARE FOUND NOTIFY THE ARCHITECT/ENGINEER TO DETERMINE IF EXISTING FLASHING STING METHOD: MANUFACTURED FROM EARTH MOIST, ZERO-SLUMP CONCRETE COMPACTED BY MACHINERY USING VIBRATION AND PRESSURE MORTARS. ELEMENTS SHOULD BE REPLACED. IOLD UNTIL IT BECOMES DENSELY CONSOLIDATED. E. WATER: POTABLE 3. REMOVE MORTAR AROUND CAST STONE USING GRINDERS AND CHIPPING HAMMERS TO LOOSEN THE CAST STONE ELEMENT FROM THE WALL. REMOVE CAST IANUFACTURED FROM MEASURABLE SLUMP CONCRETE. STONE ELEMENTS TAKING CARE NOT TO DAMAGE SURROUNDING ELEMENTS TO REMAIN. G METHOD: MANUFACTURED FROM MEASURABLE SLUMP CONCRETE AND VIBRATED INTO A MOLD UNTIL IT BECOMES DENSELY CONSOLIDATED. WITH ASTM C270 PROPORTION SPECIFICATION CONSISTING OF 1 PART CEMENT, 1 PART LIME, AND 6 PARTS SAND. FONE INSTITUTE. 4. ONCE CAST STONE IS REMOVED RETAIN SAMPLES OF EXISTING CAST STONE UNTIL PROJECT COMPLETION TO BE USED FOR COLOR MATCHING AND SAMPLE VERIFICATION. SHOVEL; USE KNOWN MEASURE. MIX MATERIALS IN A CLEAN, MECHANICAL BATCH MIXER. F THE CAST STONEWORK BEYOND THE BASE BID SHALL BE PERFORMED AS UNIT PRICE WORK AND THE TOTAL VALUE OF THE CONSTRUCTION B. CAST STONE PATCH REPAIR: IDENTIFY LIMITS OF PATCH REPAIR USING SOUNDING TECHNIQUES TO DETERMINE LIMITS OF EXISTING DELAMINATIONS. HALL BE REVISED UP OR DOWN THROUGH CHANGE ORDERS USING UNIT PRICES SUBMITTED AT THE TIME OF BID AND FIELD VERIFIED QUANTITIES 1. SAW CUT PERIMETER OF PATCH A ½ INCH DEEP USING GRINDERS EQUIPPED WITH A CONCRETE OR MASONRY BLADE. EEN APPROVED BY THE ARCHITECT/ENGINEER. 2. REMOVE DELAMINATED CONCRETE USING CHIPPING HAMMERS. RESOUND DEMOED SURFACE TO ENSURE ALL DELAMINATED CONCRETE HAS BEEN REMOVED. 🛿 SHALL PROVIDE ACCESS AND VISUALLY SURVEY AND SOUND ALL CAST STONE ELEMENTS. CONTRACTOR SHALL DOCUMENT THE TYPE OF REPAIR. OF FINAL MIXING; DO NOT RETEMPER OR USE PARTIALLY HARDENED MATERIAL. 3. WHERE EXISTING REINFORCEMENT IS EXPOSED CLEAN REINFORCING BARS TO REMOVE SURFACE CORROSION. NOTIFY ARCHITECT/ENGINEER IF EXISTING BARS FREPAIR, AND QUANTITY FOR ALL UNIT PRICE ITEMS. ACCESS SHALL BE PROVIDED TO THE ARCHITECT/ENGINEER TO SURVEY AND SOUND CAST 3.01 PROTECTION EXHIBIT AREAS OF SECTION LOSS. /ERIFICATION OF CONTRACTOR'S SUBMITTED QUANTITIES. A. PREVENT MORTAR FROM STAINING FACE OF SURROUNDING MASONRY AND OTHER SURFACES. 4. WHERE MORE THAN 50% OF A REINFORCING BAR DIAMETER IS EXPOSED, UNDERCUT THE BAR TO ALLOW FOR INSTALLATION OF PATCH MATERIAL BEHIND BAR. IN CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE. CONTRACTOR TO PREPARE AGENDA AND DISTRIBUTE MEETING MINUTES AFTER THE B. COVER SILLS, LEDGES, AND OTHER PROJECTING ITEMS TO PROTECT THEM FROM MORTAR DROPPINGS. ING AGENDA SHALL INCLUDE REVIEW FIELD VERIFIED QUANTITIES FOR EACH TYPE OF PRECAST REPAIR ON THE PROJECT, REVIEW APPROVED C. CAST STONE CRACK REPAIR: USING GRINDERS ROUT CRACKS AS INDICATED IN THE DRAWINGS. C. KEEP WALL AREA WET BELOW REBUILDING AND REPAIR WORK TO DISCOURAGE MORTAR FROM ADHERING CUSS SEQUENCE OF WORK AND COORDINATION OF WORK BASED ON BUILDING OPERATIONS. AT A MINIMUM, THE FOLLOWING PARTIES SHALL BE 3.02 EXAMINE SUBSTRATES AND CONDITIONS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER D. IMMEDIATELY REMOVE MORTAR SPLATTERS IN CONTACT WITH EXPOSED MASONRY AND OTHER SURFACES. 3.02 BRICK REPLACEMENT: AT LOCATIONS INDICATED OR AS APPROVED BASED ON EXAMINATION OF THE FAÇADE, REMOVE BRICK UNITS THAT ARE DAMAGED, SPALLED, OR CONDITIONS AFFECTING PERFORMANCE OF THE WORK. PRESENTATIVE, 3.03 PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. NGINEER'S PROJECT MANAGER REPLACEMENT WITH FULL-SIZE UNITS. 3 04 PROVIDE ACCESS TO ARCHITECT/ENGINEER TO REVIEW SUBSTRATE CONDITIONS WHERE CAST STONE ELEMENTS ARE TO BE REMOVED IN REPLACED. COORDINATE R'S PROJECT MANAGER, A. WHEN REMOVING SINGLE BRICK, REMOVE MATERIAL FROM CENTER OF BRICK AND WORK TOWARD OUTSIDE EDGES. ARCHITECT/ENGINEER REVIEW OF CONDITIONS TO ALLOW MINIMUM SEVEN (7) DAYS FOR DESIGN OF ANY REQUIRED CONNECTIONS BASED ON EXISTING S SUPERINTENDENT. B. SUPPORT AND PROTECT REMAINING MASONRY THAT SURROUNDS REMOVAL AREA. CONDITIONS. R THE INSTALLER 3.05 REPLACEMENT CAST STONE INSTALLATION: ROTTED WOOD, RUSTED METAL, AND OTHER DETERIORATED ITEMS. TA: PROVIDE THE MANUFACTURER'S PUBLISHED PRODUCT LITERATURE FOR MATERIALS TO BE USED IN CAST STONE WORK TO SHOW COMPLIANCE A. SET CAST STONE UNITES AS INDICATED IN TMS 604. REMOVE IN AN UNDAMAGED CONDITION AS MANY WHOLE BRICKS AS POSSIBLE. QUIREMENTS INDICATED. INCLUDE TESTING REPORTS NOT MORE THAN ONE YEAR OLD, INSTALLATION INSTRUCTIONS AND STANDARD DETAILS. E. REMOVE MORTAR, LOOSE PARTICLES, AND SOIL FROM BRICK BY CLEANING WITH HAND CHISELS, BRUSHES, AND WATER. B. SET UNITS ACCURATELY IN LOCATIONS APPROVED BY THE ARCHITECT/ENGINEER, WITH EDGES AND FACES ALIGNED ACCORDING TO ESTABLISHED RELATIONSHIPS VIGS FOR REPLACEMENT UNITS: DETAIL FABRICATION AND INSTALLATION OF CAST STONE UNITS. INDICATE LOCATIONS, PLANS, ELEVATIONS, F. REPLACE DAMAGED BRICK OR BRICK DAMAGED DURING BRICK REMOVAL WITH NEW BRICK MATCHING EXISTING BRICK. DO NOT REINSTALL SALVAGED BRICK UNI AND INDICATED TOLERANCES. SHAPES, AND CROSS SECTIONS OF EACH UNIT. INDICATE JOINTS, REVEALS, DRIPS, CHAMFERS, AND EXTENT AND LOCATION OF EACH SURFACE C. INSTALL ANCHORS. SUPPORTS. FASTENERS. AND OTHER ATTACHMENTS INDICATED IN ASI PROVIDED BY ARCHITECT/ENGINEER FOLLOWING FIELD VERIFICATION OF ATE LOCATIONS, TOLERANCES, AND DETAILS OF ANCHORAGE DEVICES TO BE EMBEDDED IN OR ATTACHED TO STRUCTURE OR OTHER EXISTING CONDITIONS AND AS NECESSARY TO SECURE UNITS IN PLACE. ON. INDICATE RELATIONSHIP OF CAST STONE UNITS TO ADJACENT MATERIALS. COORDINATE AND INDICATE OPENINGS AND INSERTS REQUIRED BY MOTOR-DRIVEN SAW DESIGNED TO CUT MASONRY WITH CLEAN, SHARP, UNCHIPPED EDGES. D. WET JOINT SURFACES THOROUGHLY BEFORE APPLYING MORTAR OR SETTING IN MORTAR. H. MAINTAIN JOINT WIDTH FOR REPLACEMENT UNITS TO MATCH EXISTING JOINTS. E. SET UNITS IN FULL BED OF MORTAR WITH FULL HEAD JOINTS UNLESS OTHERWISE INDICATED. VERIFICATION: F. SET UNITS WITH 3/8 WIDE MORTAR JOINTS. FIREE (3) CURED 2 INCH. BY 2 INCH. BY 2 INCH CUBE SAMPLES OF REPAIR MORTAR FOR VERIFICATION OF COLOR AND TEXTURE MATCH WITH EXISTING FILL HEAD JOINTS AND SHOVE INTO PLACE. WET BOTH REPLACEMENT AND SURROUNDING BRICKS THAT HAVE ASTM C67 INITIAL RATES OF ABSORPTION (SUCTION) ONE WINDOWSILLS AND PILASTER CAPS. G. BUILD ANCHORS AND TIES INTO MORTAR JOINTS AS UNITS ARE SET. ANCHORS SHALL BE INSTALLED AT 16" OC OR AS INDICATED BY THE ARCHITECT/ENGINEER CURED MORTAR SAMPLES FOR MORTAR TO BE USED FOR SETTING NEW CAST STONE ELEMENTS. AFTER REVIEW OF THE SUBSTRATE CONDITIONS. TOOL EXPOSED MORTAR JOINTS IN REPAIRED AREAS TO MATCH JOINTS OF SURROUNDING EXISTING BRICKWORK. DN STATEMENT FOR MANUFACTURER OF REPLACEMENT CAST STONE ELEMENTS TO SHOW MANUFACTURER HAS PRODUCED CAST STONE UNITS K. WHEN MORTAR IS HARD ENOUGH TO SUPPORT UNITS, REMOVE SHIMS AND OTHER DEVICES INTERFERING WITH POINTING OF JOINTS. H. AT WINDOWSILLS REPLACE WINDOW PERIMETER SEALS THAT WERE DISTURBED AS PART OF THE WORK USING AN ASTM C920, SINGLE COMPONENT, NS, CLASS 50 HOSE INDICATED FOR THIS PROJECT, HAS SUFFICIENT PRODUCTION CAPACITY TO MANUFACTURE REQUIRED UNITS, AND IS A PLANT CERTIFIED BY CSI. SILICONE SEALANT OF COLOR TO MATCH EXISTING. D MOCKUPS TO VERIFY SELECTIONS MADE UNDER SAMPLE SUBMITTALS AND SET QUALITY REQUIREMENTS FOR MATERIALS AND EXECUTION. M. HAIRLINE CRACKING WITHIN THE MORTAR OR MORTAR SEPARATION AT EDGE OF A JOINT IS UNACCEPTABLE. COMPLETELY REMOVE SUCH MORTAR AND REPOINT 3.06 INSTALLATION TOLERANCES FOR REPLACEMENT CAST STONE: IN-PLACE MOCKUPS FOR ONE (1) CAST STONE CRACK REPAIR AND ONE (1) CAST STONE PATCH REPAIR. USE MATERIALS AND INSTALLATION METHODS 3.03 REPOINTING A. VARIATION FROM PLUMB: DO NOT EXCEED 1/8 INCH IN 10 FT. MAXIMUM R THE ENTIRE PROJECT. B. VARIATION FROM LEVEL: DO NOT EXCEED 1/8 INCH IN 10 FT. MAXIMUM. F MOCKUPS DOES NOT CONSTITUTE APPROVAL OF DEVIATIONS FROM THE CONTRACT DOCUMENTS CONTAINED IN MOCKUPS UNLESS OWNER MASONRY BUILDINGS." FOR REPOINTING WITH PORTLAND CEMENT MORTAR, ALSO FOLLOW ASTM E2260 "STANDARD GUIDE FOR REPOINTING (TUCKPOINTING) C. VARIATION IN JOINT WIDTH: DO NOT VARY JOINT THICKNESS MORE THAN 1/8 INCH IN 36 INCHES OR ONE-FOURTH OF NOMINAL JOINT WIDTH, WHICHEVER IS LESS. APPROVES SUCH DEVIATIONS BY CHANGE ORDER. HISTORIC MASONRY' AGE AND HANDLING D. VARIATION IN PLANE BETWEEN ADJACENT SURFACES (LIPPING): DO NOT VARY FROM FLUSH ALIGNMENT WITH ADJACENT UNITS OR ADJACENT SURFACES INDICATED B. RAKE OUT AND REPOINT EXPOSED JOINTS IN EXTERIOR BRICK WALLS THAT HAVE WEATHERED SUCH THAT THE ORIGINAL TOOLING PROFILE IS NO LONGER AND SHIP CAST STONE UNITS IN SUITABLE PACKS OR PALLETS. TO BE FLUSH WITH UNITS BY MORE THAN 1/16 INCH, EXCEPT WHERE VARIATION IS DUE TO WARPAGE OF UNITS WITHIN TOLERANCES SPECIFIED. IDENTIFIABLE OR POINTING MORTAR IS DETERIORATED AND CRUMBING. E-BELT SLINGS; DO NOT USE WIRE ROPE OR ROPES THAT MIGHT CAUSE STAINING. MOVE CAST STONE UNITS IF REQUIRED, USING DOLLIES WITH 3.07 INSTALLATION OF PATCH MATERIAL AT PATCHES AND CRACK REPAIR: A. FOLLOW MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. STONE UNITS ON WOOD SKIDS OR PALLETS WITH NONSTAINING, WATERPROOF COVERS, SECURELY TIED. ARRANGE TO DISTRIBUTE WEIGHT EVENLY DIRECTION. B. PROCEED ONLY ONCE ALL DEMOLITION AND REINFORCING BAR CLEANING/REPAIR HAS BEEN COMPLETED. DOCUMENT EXISTING PATCH LOCATIONS WITH /ENT DAMAGE TO UNITS. VENTILATE UNDER COVERS TO PREVENT CONDENSATION. D. REMOVE MORTAR FROM MASONRY SURFACES WITHIN RAKED-OUT JOINTS TO PROVIDE REVEALS WITH SQUARE BACKS AND TO EXPOSE MASONRY FOR CONTACT PHOTOGRAPHS TO BE DISTRIBUTED TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION OF PATCH MATERIAL WITH ADEQUATE DUNNAGE AND BRACING, AND PROTECT UNITS TO PREVENT CONTACT WITH SOIL, PREVENT STAINING, AND PREVENT CRACKING, WITH POINTING MORTAR. BRUSH, VACUUM, OR FLUSH JOINTS TO REMOVE DIRT AND LOOSE DEBRIS. C. PRE-WET THE SUBSTRATE AHEAD OF TIME TO PREVENT THE SUBSTRATE FROM DRAWING MOISTURE OUT OF THE REPAIR TOO QUICKLY. RE-WET THE SURFACE WARPING, OR OTHER PHYSICAL DAMAGE. E. DO NOT OVER CUT, SPALL, OR OTHERWISE DAMAGE SURFACE OF BRICK MASONRY IN ANY WAY WHEN REMOVING EXISTING MORTAR. ANY BRICK UNIT DAMAGED IMMEDIATELY BEFORE APPLYING THE REPAIR MATERIAL. ED UNITS SO IDENTIFICATION MARKS ARE CLEARLY VISIBLE, AND UNITS CAN BE INSPECTED. D. MIX REPAIR MATERIAL AT 5:1 (DRY MATERIAL TO POTABLE WATER) RATIO OR AS REQUIRED BY THE MANUFACTURER FOR PROPER INSTALLATION. TRANSPORT UNITS IN A MANNER THAT AVOIDS EXCESSIVE STRESSES THAT CAUSE CRACKING OR DAMAGE. E. APPLY MANUFACTURER'S RECOMMENDED PRIME COAT TO SURFACE OR REPAIRS. PRIME COAT SHALL BE 1/8 INCH THICK UNLESS OTHERWISE INDICATED IN WRITING PPORT UNITS ONLY AT DESIGNATED POINTS INDICATED ON SHOP DRAWINGS. METAL, AND OTHER DETERIORATED ITEMS. PREPAIR MATERIALS ARE TO BE DELIVERED, STORED, AND HANDLED TO PROTECT THEM FROM DAMAGE, EXTREME TEMPERATURE, AND MOISTURE IN BY THE MANUFACTURER. G. RINSE JOINT SURFACES WITH WATER TO REMOVE DUST AND MORTAR PARTICLES. TIME RINSING APPLICATION SO, AT TIME OF POINTING, JOINT SURFACES ARE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. F. APPLY REPAIR MATERIAL IN LIFTS PRIOR TO THE PRIME COAT DRYING OUT. APPLY MATERIAL IN LIFTS NOT MORE THAN 2 INCHES THICK. ALLOW EACH LIFT TO CURE DAMP BUT FREE OF STANDING WATER. IF RINSE WATER DRIES, DAMPEN JOINT SURFACES BEFORE POINTING. STORE MORTAR AND REPAIR MATERIALS IN MANUFACTURER'S ORIGINAL, UNOPENED CONTAINERS WITH THE PRODUCTION DATE SHOWN ON THE 2 HOURS PRIOR TO INSTALLATION OF SUBSEQUENT LIFTS. OR PACKAGING. G. IF APPLIED IN LAYERS SCRAPE OFF ANY CEMENT SKIN THAT HAS FORMED AND CONTINUE APPLICATION. DAMPEN THE SURFACE BEFORE APPLYING THE NEXT LAYER. I THE MANUFACTURER'S WRITTEN SPECIFICATIONS AND RECOMMENDATIONS FOR MIXING, APPLICATION, AND CURING OF MORTARS. APPLYING THE NEXT LAYER WORK MORTAR FIRMLY INTO THE SURFACE OF THE CAST STONE, INCLUDING THE CORNERS, AND UNDER AND AROUND ALL MECHANICAL ANCHORS. **FE CONDITIONS** H. BUILD UP REPAIR MATERIAL SO THAT IT IS SLIGHTLY ABOVE THE ADJACENT CAST STONE SURFACE. ALLOW MORTAR 30 TO 60 MINUTES TO SET SLIGHTLY (WAIT TIME ER REQUIREMENTS: DO NOT USE FROZEN MATERIALS OR MATERIALS MIXED OR COATED WITH ICE OR FROST. DO NOT BUILD ON FROZEN SUBSTRATES. WILL VARY WITH TEMPERATURE AND HUMIDITY-LONGER IN COOL WEATHER), AND THEN SCRAPE OFF EXCESS MATERIAL USING A STRAIGHT EDGE (A PLASTERER'S I COLD-WEATHER CONSTRUCTION REQUIREMENTS IN TMS 602. MITER ROD IS GOOD FOR THIS). DO NOT PRESS DOWN OR "FLOAT" THE REPAIR. WHERE REPAIRS OCCUR AT PANEL EDGES OR CORNERS, FORM MORTAR TO MATCH ATHER CLEANING: USE LIQUID CLEANING METHODS ONLY WHEN AIR TEMPERATURE IS 40 DEG F (4 DEG C) AND ABOVE AND WILL REMAIN SO UNTIL ONTO EXPOSED MASONRY SURFACES OR TO FEATHEREDGE THE MORTAR. THE PROFILE OF THE SURROUNDING MASONRY ONE HAS DRIED, BUT NO FEWER THAN SEVEN DAYS AFTER COMPLETING CLEANING. 3.08 FINAL CLEANING: AFTER MORTAR IS THOROUGHLY SET AND CURED, CLEAN EXPOSED CAST STONE AS FOLLOWS: R REQUIREMENTS: COMPLY WITH HOT-WEATHER CONSTRUCTION REQUIREMENTS IN TMS 602 MORTAR FROM EDGE OF JOINT BY BRUSHING. A. REMOVE LARGE MORTAR PARTICLES BY HAND WITH WOODEN PADDLES AND NONMETALLIC SCRAPE HOES OR CHISELS. K. CURE MORTAR BY MAINTAINING IN THOROUGHLY DAMP CONDITION FOR AT LEAST 72 CONSECUTIVE HOURS, INCLUDING WEEKENDS AND HOLIDAYS. B. TEST CLEANING METHODS ON SAMPLE; LEAVE ONE SAMPLE UNCLEANED FOR COMPARISON PURPOSES. OBTAIN ARCHITECT'S APPROVAL OF SAMPLE CLEANING TATIONS FOR CAST STONE: OBTAIN CAST STONE UNITS FROM SINGLE SOURCE FROM SINGLE MANUFACTURER. BEFORE PROCEEDING WITH CLEANING OF CAST STONE. TATIONS FOR MORTAR MATERIALS: OBTAIN MORTAR INGREDIENTS OF A UNIFORM QUALITY, INCLUDING COLOR, FROM ONE MANUFACTURER FOR EACH FAHRENHEIT. PROTECT FROM FREEZING FOR 28 DAYS. JS COMPONENT AND FROM ONE SOURCE OR PRODUCER FOR EACH AGGREGATE DIVISION 04 BRICK MASONRY REPAIRS TATIONS FOR CAST STONE REPAIR MATERIALS: OBTAIN PATCH AND CRACK REPAIR MATERIALS FROM A SINGLE MANUFACTURER. SYSTEM OF PIPES, MIST HEADS, AND TIMERS. 1.01 BRICK MASONRY REPAIRS FOR THE PROJECT ARE LIMITED TO REPOINTING OF CRACKS IN THE BRICK FACADE AND REPLACEMENT OF BRICK THAT HAVE CRACKED. TERIALS FOR REPLACEMENT UNITS 1.02 UNIT PRICES MPLY WITH ASTM C1364. MANUFACTURER UNITS USING THE MANUFACTURER'S RECOMMENDED METHOD. SIZES, TEXTURE FOR EXPOSED SURFACES, DAYS. A. BRICK MASONRY WORK BEYOND THE BASE BID SHALL BE PERFORMED AS UNIT PRICE WORK AND THE TOTAL VALUE OF THE CONSTRUCTION CONTRACT SHALL BE OF UNITS SHALL MATCH THE EXISTING UNIT TO BE REPLACED BASED ON FIELD VERIFIED DIMENSIONS. FABRICATE UNITS WITH SHARP ARRIS AD O. HAIRLINE CRACKING WITHIN THE MORTAR OR MORTAR SEPARATION AT EDGE OF A JOINT IS UNACCEPTABLE. REMOVE MORTAR AND REPOINT. REVISED UP OR DOWN THROUGH CHANGE ORDERS USING UNIT PRICES SUBMITTED AT THE TIME OF BID AND FIELD VERIFIED QUANTITIES THAT HAVE BEEN / REPRODUCED DETAILS. SLOPE EXPOSED HORIZONTAL SURFACES 1:12 TO DRAIN UNLESS OTHERWISE INDICATED. PROVIDE DRIPS ON PROJECTING APPROVED BY THE ARCHITECT/ENGINEER NLESS OTHERWISE INDICATED. 01 FINAL CLEANING: AFTER MORTAR IS THOROUGHLY SET AND CURED, CLEAN BRICK REPAIRS AS FOLLOWS: B. CONTRACTOR SHALL PROVIDE ACCESS AND VISUALLY SURVEY THE FAÇADE TO IDENTIFY LOCATIONS OF CRACKS IN THE BRICK VENEER. CONTRACTOR SHALL EMENT: ASTM C150/C150M, TYPE I OR TYPE III, CONTAINING NOT MORE THAN 0.60 PERCENT TOTAL ALKALI WHEN TESTED ACCORDING TO ASTM C114 A. REMOVE LARGE MORTAR PARTICLES BY HAND WITH WOODEN PADDLES AND NONMETALLIC SCRAPE HOES OR CHISELS. DOCUMENT THE TYPE OF REPAIR, LOCATION OF REPAIR, AND QUANTITY FOR ALL UNIT PRICE ITEMS. URAL COLOR OR WHITE CEMENT AS REQUIRED TO PRODUCE CAST STONE COLOR INDICATED. B. CLEAN REPAIR AREA WITH LOW PRESSURE SPRAY OF 200 PSI OR LESS. 1.03 PREINSTALLATION CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE. CONTRACTOR TO PREPARE AGENDA AND DISTRIBUTE MEETING MINUTES AFTER THE REGATES: GRANITE, QUARTZ, OR LIMESTONE COMPLYING WITH ASTM C33/C33M; GRADATION AND COLORS AS NEEDED TO PRODUCE REQUIRED CAST MEETING. MEETING AGENDA SHALL INCLUDE REVIEW FIELD VERIFIED QUANTITIES FOR EACH TYPE OF BRICK MASONRY REPAIR ON THE PROJECT, REVIEW APPROVED JRES AND COLORS. DIVISION 06 WOOD SUBMITTALS, DISCUSS SEQUENCE OF WORK AND COORDINATION OF WORK BASED ON BUILDING OPERATIONS. AT A MINIMUM, THE FOLLOWING PARTIES SHALL BE GATES: NATURAL SAND OR CRUSHED STONE COMPLYING WITH ASTM C33/C33M, GRADATION AND COLORS AS NEEDED TO PRODUCE REQUIRED CAST PRESENT: URES AND COLORS. ENT: ASTM C979/C979M, SYNTHETIC MINERAL-OXIDE PIGMENTS OR COLORED WATER-REDUCING ADMIXTURES; COLOR STABLE, FREE OF CARBON A. OWNER'S REPRESENTATIVE, ADING, AND RESISTANT TO LIME AND OTHER ALKALIS 1.02 UNIT PRICES B. ARCHITECT/ENGINEER'S PROJECT MANAGER, : USE ONLY ADMIXTURES SPECIFIED OR APPROVED IN WRITING BY ARCHITECT/ENGINEER. C. CONTRACTOR'S PROJECT MANAGER, ISE ADMIXTURES THAT CONTAIN MORE THAN 0.1 PERCENT WATER-SOLUBLE CHLORIDE IONS BY MASS OF CEMENTITIOUS MATERIALS. DO NOT USE D. CONTRACTOR'S SUPERINTENDENT, RES CONTAINING CALCIUM CHLORIDE. APPROVED BY THE ARCHITECT/ENGINEER. FOREMAN FOR THE INSTALLER ADMIXTURES THAT ARE CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH CEMENT AND OTHER ADMIXTURES USED. B. CONTRACTOR SHALL PROVIDE ACCESS AND VISUALLY SURVEY THE WOOD ELEMENTS TO IDENTIFY LOCATIONS OF ROT AND DETERIORATION. CONTRACTOR SHAL 1.04 SUBMITTALS: AINING ADMIXTURE: ASTM C260/C260M. ADD TO MIXES FOR UNITS EXPOSED TO THE EXTERIOR AT MANUFACTURER'S PRESCRIBED RATE TO RESULT IN DOCUMENT THE TYPE OF REPAIR, LOCATION OF REPAIR, AND QUANTITY FOR ALL UNIT PRICE ITEMS. DNTENT OF 4 TO 6 PERCENT, EXCEPT DO NOT ADD TO ZERO-SLUMP CONCRETE MIXES. A. PRODUCT DATA: PROVIDE THE MANUFACTURER'S PUBLISHED PRODUCT LITERATURE FOR MATERIALS TO BE USED IN BRICK MASONRY REPAIRS TO SHOW COMPLIANCE WITH THE REQUIREMENTS INDICATED. INCLUDE TESTING REPORTS NOT MORE THAN 1 YEAR OLD, INSTALLATION INSTRUCTIONS AND STANDARD EDUCING ADMIXTURE: ASTM C494/C494M, TYPE A. DETAILS. EDUCING, RETARDING ADMIXTURE: ASTM C494/C494M, TYPE D. EDUCING, ACCELERATING ADMIXTURE: ASTM C494/C494M, TYPE E. PRESENT: B. SAMPLES FOR VERIFICATION: A. OWNER'S REPRESENTATIVE, 1. PROVIDE SAMPLE BRICK TO ILLUSTRATE COLOR. COLOR BLEND, SHAPE AND SIZE WILL MATCH EXISTING. D STEEL BARS COMPLYING WITH ASTM A615/A615M, GRADE 40. USE GALVANIZED OR EPOXY-COATED REINFORCEMENT WHEN COVERED WITH LESS B. ARCHITECT/ENGINEER'S PROJECT MANAGER, 2. PROVIDE CURED MORTAR SAMPLES FOR MORTAR TO BE USED FOR SETTING NEW CAST STONE ELEMENTS. 2 INCHES OF CAST STONE MATERIAL. C. CONTRACTOR'S PROJECT MANAGER, C. QUALIFICATION STATEMENT FOR INSTALLER SHOWING EXPERIENCE PERFORMING SIMILAR MASONRY REPAIR WORK ON NOT LESS THAN FIVE (5) PROJECTS IN THE OATING: ASTM A775/A775M. D. CONTRACTOR'S SUPERINTENDENT, LAST 10 YEARS. ZED COATING: ASTM A767/A767M. E. FOREMAN FOR THE INSTALLER D. PRECONSTRUCTION TEST REPORTS: FOR EXISTING MORTAR TO BE USED FOR VERIFICATION AND SELECTION OF POINTING MORTAR AND SETTING MORTAR FOR EEL, WELDED-WIRE REINFORCEMENT: ASTM A1064/A1064M, PLAIN, FABRICATED FROM AS-DRAWN STEEL WIRE INTO FLAT SHEETS. 1.04 SUBMITTALS BRICK MASONRY REPAIRS. ZED-STEEL, WELDED-WIRE REINFORCEMENT: ASTM A1064/A1064M. PLAIN. FABRICATED FROM GALVANIZED-STEEL WIRE INTO FLAT SHEETS. A. PRODUCT DATA: FOR ALL PRODUCTS LISTED. 1. SUBMIT TESTING REPORTS INDICATING FINDINGS AND RECOMMENDATIONS FOR MORTAR CONSTITUENTS. SEE ARTICLE IN THIS SECTION ENTITLED INFORCEMENT: ASTM C1116/C1116M. "PRECONSTRUCTION TESTING" FOR REQUIREMENTS. N TOLERANCES: INSTALLING, AND FINISHING TREATED MATERIAL N IN CROSS SECTION: DO NOT VARY FROM INDICATED DIMENSIONS BY MORE THAN 1/8 INCH. 1.05 PRECONSTRUCTION TESTING 2. FOR TIMBER CONNECTIONS. INCLUDE INSTALLATION INSTRUCTIONS. DN IN LENGTH: DO NOT VARY FROM INDICATED DIMENSIONS BY MORE THAN 1/360 OF THE LENGTH OF UNIT OR 1/8 INCH, WHICHEVER IS GREATER, BUT IN 🍴 3. FOR PRODUCTS RECEIVING A WATERBORNE TREATMENT, INCLUDE STATEMENT THAT MOISTURE CONTENT OF TREATED MATERIALS WAS REDUCED BEFORE A. PRECONSTRUCTION TESTING SERVICE: ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM PRECONSTRUCTION TESTING ON BRICK MASONRY AS FOLLOWS: BY MORE THAN 1/4 INCH. SHIPMENT TO PROJECT SITE TO LEVELS SPECIFIED. 1. PROVIDE TEST SPECIMENS AS INDICATED AND REPRESENTATIVE OF PROPOSED MATERIALS AND EXISTING CONSTRUCTION. OW, AND TWIST: NOT TO EXCEED 1/360 OF THE LENGTH OF UNIT OR 1/8 INCH, WHICHEVER IS GREATER. FOR EXTERIOR PAINT, INCLUDE PREPARATION REQUIREMENTS, APPLICATION INSTRUCTIONS, AND VOC CONTENT. N OF GROOVES, FALSE JOINTS, HOLES, ANCHORAGES, AND SIMILAR FEATURES: DO NOT VARY FROM INDICATED POSITION BY MORE THAN 1/8 INCH ON B. SHOP DRAWINGS: FOR HEAVY TIMBER FRAMING. SHOW LAYOUT, DIMENSIONS OF EACH MEMBER, AND DETAILS OF CONNECTIONS. SURFACES OF UNITS AND 3/8 INCH ON UNFORMED SURFACES. C. PAINT SAMPLES: FOR EACH TYPE OF TOPCOAT PRODUCT. 1. SAMPLES FOR INITIAL SELECTION: FOR EACH TYPE OF TOPCOAT PRODUCT.

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IVE HUMIDITY AND TEMPERATURE OF 100 DEG F FOR 12 HOURS OR 70 DEG F FOR 16	AGGREGATES, AND APPROXIMATE ST	TO ASTM C1324, TO DETERMINE PROPORTIONAL COMPOSITION OF ORIGINAL RENGTH. USE X-RAY DIFFRACTION, INFRARED SPECTROSCOPY, AND DIFFERE LY REMOVE EXISTING MORTAR FOR TESTING FROM WITHIN JOINTS AT FIVE (5	ENTIAL THERM
E FOLLOWING:		ST WING AS DESIGNATED BY ARCHITECT/ENGINEER. AT EACH SAMPLE LOCA	,
) OR ABOVE.		STING POINTING MORTAR AND EXISTING SETTING MORTAR. LABEL EACH SAN	
G F OR ABOVE.	OUTSIDE FACE OF THE WALL WHERE 1		
ACES TO BE EXPOSED TO VIEW.	1.06 DELIVERY, STORAGE AND HANDLING		
	A. PACK, HANDLE, AND BRICK UNITS IN SUITA	ABLE PACKS OR PALLETS.	
Y BE USED FOR COLD-WEATHER CONSTRUCTION. PROVIDE NATURAL COLOR OR WHITE	B. STORE BRICK UNITS ON WOOD SKIDS OR	PALLETS WITH NONSTAINING, WATERPROOF COVERS, SECURELY TIED. ARRA UNDER COVERS TO PREVENT CONDENSATION.	ANGE TO DIST
	C. STORE UNITS WITH ADEQUATE DUNNAGE DISTORTION, WARPING, OR OTHER PHYSI	AND BRACING, AND PROTECT UNITS TO PREVENT CONTACT WITH SOIL, PREV CAL DAMAGE.	VENT STAININ
MIUM OXIDES, COMPOUNDED FOR USE IN MORTAR MIXES AND COMPLYING WITH ASTM	D. HANDLE AND TRANSPORT UNITS IN A MAN	INER THAT AVOIDS EXCESSIVE STRESSES THAT CAUSE CRACKING OR DAMAG	GE.
ERFORMANCE IN MASONRY MORTAR.	E. MORTAR MATERIALS ARE TO BE DELIVERE	ED, STORED, AND HANDLED TO PROTECT THEM FROM DAMAGE, EXTREME TE	MPERATURE,
ROM MANUFACTURER'S STANDARD COLORS. SUBMIT SAMPLES FOR OWNER'S APPROVAL	WITH MANUFACTURER'S WRITTEN INSTRU	JCTIONS.	
	F. DELIVER AND STORE MORTAR AND REPAI CONTAINER OR PACKAGING.	R MATERIALS IN MANUFACTURER'S ORIGINAL, UNOPENED CONTAINERS WITH	I THE PRODUC
	G. COMPLY WITH THE MANUFACTURER'S WR	ITTEN SPECIFICATIONS AND RECOMMENDATIONS FOR MIXING, APPLICATION,	, AND CURING
G CONDITIONS ARE EXPOSED DURING REMOVAL OF EXISTING CAST STONE ELEMENTS TO	1.07 PROTECTION / SITE CONDITIONS		
ING WITH ASTM A240/A240M, ASTM A276/A276M, OR ASTM A666.	A. COLD-WEATHER REQUIREMENTS: DO NOT	USE FROZEN MATERIALS OR MATERIALS MIXED OR COATED WITH ICE OR FR	ROST. DO NOT
TH CLEANER DESIGNED FOR REMOVING MORTAR/GROUT STAINS, EFFLORESCENCE, AND	COMPLY WITH COLD-WEATHER CONSTRU	CTION REQUIREMENTS IN TMS 602.	
SCOLORING OR DAMAGING MASONRY SURFACES. USE PRODUCT EXPRESSLY APPROVED	1. COLD-WEATHER CLEANING: USE LIQUI	D CLEANING METHODS ONLY WHEN AIR TEMPERATURE IS 40 DEG F AND ABO	VE AND WILL
APPROVED BY CLEANER MANUFACTURER FOR USE ON CAST STONE AND ADJACENT	HAS DRIED BUT NO FEWER THAN SEV	EN DAYS AFTER COMPLETING CLEANING	

A. POINTING MORTAR: THE EXISTING MORTAR ON THE ORIGINAL BUILDING AND ADDITION ARE ANTICIPATED TO BE "MODERN" MORTAR CONTAINING PORTLAND CEMENT. EXISTING MORTAR MATERIALS TO BE VERIFIED WITH PRE-CONSTRUCTION TESTING. AND CONTRACTOR TO PROVIDE CEMENT LIME MORTAR OR A

1. MATCH SIZE, TEXTURE, AND GRADATION OF EXISTING MORTAR SAND AS CLOSELY AS POSSIBLE, BLEND SEVERAL SANDS IF NECESSARY TO ACHIEVE SUITABLE

D. MORTAR PIGMENTS: ASTM C979/C979M, COMPOUNDED FOR USE IN MORTAR MIXES, AND HAVING A RECORD OF SATISFACTORY PERFORMANCE IN MASONRY

MORTAR MIXES: SHOULD EXISTING SETTING MORTAR FOR BRICK FACADES BE FOUND TO CONTAIN CEMENT, PROVIDE PORTLAND CEMENT LIME MORTAR COMPLYING A. MEASUREMENT AND MIXING: MEASURE CEMENTITIOUS MATERIALS AND SAND IN A DRY CONDITION BY VOLUME OR EQUIVALENT WEIGHT. DO NOT MEASURE BY

B. MIXING POINTING MORTAR: THOROUGHLY MIX CEMENTITIOUS MATERIALS AND SAND TOGETHER BEFORE ADDING ANY WATER. THEN MIX AGAIN, ADDING ONLY ENOUGH WATER TO PRODUCE A DAMP, UNWORKABLE MIX THAT WILL RETAIN ITS FORM WHEN PRESSED INTO A BALL. MAINTAIN MORTAR IN THIS DAMPENED CONDITION FOR 15 TO 30 MINUTES. ADD REMAINING WATER IN SMALL PORTIONS UNTIL MORTAR REACHES DESIRED CONSISTENCY. USE MORTAR WITHIN ONE HOUR

DETERIORATED. CAREFULLY REMOVE ENTIRE UNITS FROM JOINT TO JOINT, WITHOUT DAMAGING SURROUNDING MASONRY, IN A MANNER THAT PERMITS

C. NOTIFY ARCHITECT/ENGINEER OF UNFORESEEN DETRIMENTAL CONDITIONS, INCLUDING VOIDS, CRACKS, BULGES, LOOSE MASONRY UNITS IN EXISTING BACKUP,

THAT ARE CRACKED, SPALLED, DAMAGED IN A MANNER SUCH THAT THE INTEGRITY AND USE OF THE ORIGINAL UNIT HAS BEEN ADVERSELY COMPROMISED. G. INSTALL BLEND OF SALVAGED AND REPLACEMENT BRICK INTO BONDING AND COURSING PATTERN OF EXISTING BRICK. IF CUTTING IS REQUIRED, USE A

I. LAY REPLACEMENT BRICK WITH SETTING MORTAR AND WITH COMPLETELY FILLED BED, HEAD, AND COLLAR JOINTS. BUTTER ENDS WITH SUFFICIENT MORTAR TO

OF MORE THAN 30 G/30 SQ. IN. PER MIN.. USE WETTING METHODS THAT ENSURE UNITS ARE SATURATED, BUT SURFACE IS DRY WHEN LAID.

L. CURING: CURE MORTAR BY MAINTAINING IN THOROUGHLY DAMP CONDITION FOR AT LEAST 72 CONSECUTIVE HOURS, INCLUDING WEEKENDS AND HOLIDAYS.

A. REPOINTING SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL PARK SERVICE PRESERVATION BRIEF 2. "REPOINTING MORTAR JOINTS IN HISTORIC

C. REMOVE MORTAR FROM JOINTS TO DEPTH OF 3/4 INCH MINIMUM AND NOT LESS THAN THAT REQUIRED TO EXPOSE SOUND, UN-WEATHERED MORTAR. DO NOT

REMOVE UNSOUND MORTAR MORE THAN 1-1/2 INCHES DEEP. IF SOUND MORTAR IS NOT UNCOVERED WITHIN 1-1/2 INCHES, NOTIFY ARCHITECT/ENGINEER FOR

MUST BE REPLACED OR REPAIRED TO THE FULL SATISFACTION OF THE ARCHITECT/ENGINEER AND UNIVERSITY AT NO ADDITIONAL COST TO THE UNIVERSITY. F. NOTIFY ARCHITECT/ENGINEER OF UNFORESEEN DETRIMENTAL CONDITIONS, INCLUDING VOIDS IN MORTAR JOINTS, CRACKS, LOOSE BRICK, ROTTED WOOD, RUSTED

H. APPLY POINTING MORTAR FIRST TO AREAS WHERE EXISTING MORTAR WAS REMOVED TO DEPTHS GREATER THAN SURROUNDING AREAS. APPLY IN LAYERS NOT GREATER THAN 1/4 INCH UNTIL A UNIFORM DEPTH IS FORMED. FULLY COMPACT EACH LAYER THOROUGHLY, AND ALLOW IT TO BECOME THUMBPRINT HARD BEFORE

AFTER DEEP AREAS HAVE BEEN FILLED TO SAME DEPTH AS REMAINING JOINTS, POINT JOINTS BY PLACING MORTAR IN 1/4-INCH LIFTS. FULLY COMPACT EACH LAYER, AND ALLOW IT TO BECOME THUMBPRINT HARD BEFORE APPLYING NEXT LAYER. WHERE EXISTING MASONRY HAS WORN OR ROUNDED EDGES, SLIGHTLY RECESS FINISHED MORTAR SURFACE BELOW FACE OF MASONRY TO AVOID WIDENED JOINT FACES. TAKE CARE NOT TO SPREAD MORTAR BEYOND JOINT EDGES

. WHEN MORTAR IS THUMBPRINT HARD, TOOL JOINTS TO MATCH ORIGINAL APPEARANCE OF JOINTS AS DEMONSTRATED IN APPROVED MOCKUP. REMOVE EXCESS

L. PROTECT POINTING MORTAR FROM DRIVING RAIN, WIND, SUN EXPOSURE, AND TEMPERATURES ABOVE 90 DEGREES FAHRENHEIT OR BELOW 40 DEGREES

M. ACCEPTABLE CURING METHODS INCLUDE COVERING WITH WET BURLAP AND PLASTIC SHEETING, PERIODIC HAND MISTING, AND PERIODIC MIST SPRAYING USING

N. ADJUST CURING METHODS TO ENSURE THAT POINTING MORTAR IS DAMP THROUGHOUT ITS DEPTH WITHOUT ERODING SURFACE MORTAR FOR A MINIMUM OF 3

P. WHERE REPOINTING WORK PRECEDES CLEANING OF EXISTING MASONRY, ALLOW MORTAR TO HARDEN AT LEAST 28 DAYS BEFORE BEGINNING CLEANING WORK

1.01 SCOPE OF WOOD REPAIRS INCLUDES THE REMOVAL AND REPLACEMENT OF PAINTED WOOD CORNICE, INSTALLATION OF NEW WOOD ELEMENTS TO CREATE BUILT GUTTER ASSEMBLIES, AND REPLACEMENT OF PAINTED WOOD TRIM AND DETERIORATED WOOD STRUCTURAL MEMBERS AT EXISTING PORCHES AND CANOPIES.

A. WOOD REPAIR WORK BEYOND THE BASE BID SHALL BE PERFORMED AS UNIT PRICE WORK AND THE TOTAL VALUE OF THE CONSTRUCTION CONTRACT SHALL BE REVISED UP OR DOWN THROUGH CHANGE ORDERS USING UNIT PRICES SUBMITTED AT THE TIME OF BID AND FIELD VERIFIED QUANTITIES THAT HAVE BEEN

1.03 PREINSTALLATION CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE. CONTRACTOR TO PREPARE AGENDA AND DISTRIBUTE MEETING MINUTES AFTER THE

MEETING. MEETING AGENDA SHALL INCLUDE REVIEW FIELD VERIFIED QUANTITIES FOR EACH TYPE OF PRECAST REPAIR ON THE PROJECT, REVIEW APPROVED SUBMITTALS, DISCUSS SEQUENCE OF WORK AND COORDINATION OF WORK BASED ON BUILDING OPERATIONS. AT A MINIMUM, THE FOLLOWING PARTIES SHALL BE

1. FOR PRESERVATIVE-TREATED WOOD PRODUCTS. INCLUDE CHEMICAL TREATMENT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR HANDLING, STORING,

6"=1'-0"

1 1/2"=1'-0"

0 1" 2" 3" 4" 5" 6" 0 3" 6" 9" 1' 0 1" 2"

3"=1'-0"

0 1' 2' 3' 4'

3/8"-1'-0"

0 2' 4' 6

1/4"=1'-0"

0 6" 1' 2' 3'

1/2"=1'-0"

0 6" 1'

3/4"=1'-0"

0 3" 6" 9" 1' 1.5'

1"=1'-0"



	 SAMPLES FOR VERIFICATION: FOR EACH TYPE OF PAINT SYSTEM AND EACH COLOR AND GLOSS OF TOPCOAT. SUBMIT SAMPLES ON RIGID BACKING, 8 INCHES SQUARE. 		B. INSTALL CONTINI
	 APPLY COATS ON SAMPLES IN STEPS TO SHOW EACH COAT REQUIRED FOR SYSTEM. LABEL EACH COAT OF EACH SAMPLE. 		C. HANDLE WITH INI
	 6. LABEL EACH SAMPLE FOR LOCATION AND APPLICATION AREA. D. MATERIAL CERTIFICATES: 1. FOR TIMPERS SPECIFIED TO COMPLY WITH MINIMUM ALLOWARD ELINIT STRESSES, INDICATE SPECIES AND CRAPE SELECTER FOR EACH USE AND RESION 		D. CUTTING
	 FOR TIMBERS SPECIFIED TO COMPLY WITH MINIMUM ALLOWABLE UNIT STRESSES. INDICATE SPECIES AND GRADE SELECTED FOR EACH USE AND DESIGN VALUES APPROVED BY ALSC'S BOARD OF REVIEW. FOR PRESERVATIVE-TREATED WOOD PRODUCTS. INDICATE TYPE OF PRESERVATIVE USED AND NET AMOUNT OF PRESERVATIVE RETAINED. FOR PRODUCTS 		F. PREDRIL G. FINISH E NO. 120
	RECEIVING A WATERBORNE TREATMENT, INCLUDE STATEMENT THAT MOISTURE CONTENT OF TREATED MATERIALS WAS REDUCED TO LEVELS SPECIFIED BEFORE SHIPMENT TO PROJECT SITE.		H. WHERE I. INSTALL
	 CERTIFICATES OF INSPECTION: ISSUED BY LUMBER-GRADING AGENCY FOR EXPOSED TIMBER NOT MARKED WITH GRADE STAMP. COMPLIANCE CERTIFICATES: 		J. UNLESS K. INSTALL
	 FOR LUMBER THAT IS NOT MARKED WITH GRADE STAMP. FOR PRESERVATIVE-TREATED WOOD THAT IS NOT MARKED WITH TREATMENT-QUALITY MARK. 	3.08	INSTALLATIO A. INSTALL
	G. EVALUATION REPORTS: FOR THE FOLLOWING, FROM ICC-ES : 1. WOOD-PRESERVATIVE-TREATED WOOD.		B. INSTALL PIECES C. USE SCA
1.05	H. SAMPLE WARRANTIES: FOR EXTERIOR TRIM, PROVIDE MANUFACTURER'S WARRANTIES. MOCKUPS: APPLY MOCKUPS OF EACH PAINT SYSTEM INDICATED AND EACH COLOR AND FINISH SELECTED TO VERIFY SELECTIONS MADE UNDER SAMPLE SUBMITTALS, TO DEMONSTRATE AESTHETIC EFFECTS, AND TO SET QUALITY STANDARDS FOR MATERIALS AND EXECUTION.		D. STAGGE
	 A. ARCHITECT/ENGINEER WILL SELECT ONE LOCATION AT LEAST 10 SQ. FT. IN AREA. SURFACE TO REPRESENT SURFACES AND CONDITIONS FOR APPLICATION OF EACH PAINT SYSTEM. 		F. COPE A G. PLANE E
	 VERTICAL AND HORIZONTAL SURFACES: PROVIDE SAMPLES OF AT LEAST 100 SQ. FT. OTHER ITEMS: ARCHITECT WILL DESIGNATE ITEMS OR AREAS REQUIRED. 	3.09	H. WHERE
	 B. FINAL APPROVAL OF COLOR SELECTIONS WILL BE BASED ON MOCKUPS. C. IF PRELIMINARY COLOR SELECTIONS ARE NOT APPROVED, APPLY ADDITIONAL MOCKUPS OF ADDITIONAL COLORS SELECTED BY ARCHITECT/ENGINEER AT NO 		A. APPLY F B. USE API
	ADDED COST TO OWNER. D. APPROVAL OF MOCKUPS DOES NOT CONSTITUTE APPROVAL OF DEVIATIONS FROM THE CONTRACT DOCUMENTS CONTAINED IN MOCKUPS UNLESS ARCHITECT/ENGINEER SPECIFICALLY APPROVES SUCH DEVIATIONS IN WRITING.		C. PAINT S FIXED I D. DO NOT
1.06	DELIVERY, STORAGE, AND HANDLING A. WOOD COMPONENTS:		E. APPLY F. TINT UN
	 SCHEDULE DELIVERY OF MATERIALS TO AVOID EXTENDED ON-SITE STORAGE AND TO AVOID DELAYING THE WORK. STORE MATERIALS UNDER COVER AND PROTECTED FROM WEATHER AND CONTACT WITH DAMP OR WET SURFACES. PROVIDE FOR AIR CIRCULATION WITHIN 		SAME N G. ALLOW
	AND AROUND STACKS AND UNDER TEMPORARY COVERINGS. B. PAINT:		H. IF UNDE
	 STORE MATERIALS NOT IN USE IN TIGHTLY COVERED CONTAINERS IN WELL-VENTILATED AREAS WITH AMBIENT TEMPERATURES CONTINUOUSLY MAINTAINED AT NOT LESS THAN 45 DEG F. MAINTAIN CONTAINERS IN CLEAN CONDITION, FREE OF FOREIGN MATERIALS AND RESIDUE. 	3 10	I. APPLY I OTHER ADJUSTING
1.07	3. REMOVE RAGS AND WASTE FROM STORAGE AREAS DAILY. FIELD CONDITIONS	0.10	A. REPAIR REPAIR
	A. WEATHER LIMITATIONS: PROCEED WITH INSTALLATION ONLY WHEN EXISTING AND FORECAST WEATHER CONDITIONS PERMIT WORK TO BE PERFORMED AND AT LEAST ONE COAT OF SPECIFIED FINISH CAN BE APPLIED WITHOUT EXPOSURE TO RAIN, SNOW, OR DAMPNESS.	3.11	 B. ADJUST CLEANING
	 B. DO NOT INSTALL FINISH CARPENTRY MATERIALS THAT ARE WET, MOISTURE DAMAGED, OR MOLD DAMAGED. 1. INDICATIONS THAT MATERIALS ARE WET OR MOISTURE DAMAGED INCLUDE, BUT ARE NOT LIMITED TO, DISCOLORATION, SAGGING, OR IRREGULAR SHAPE. 		A. CLEAN B. TOUCH
	 INDICATIONS THAT MATERIALS ARE MOLD DAMAGED INCLUDE, BUT ARE NOT LIMITED TO, FUZZY OR SPLOTCHY SURFACE CONTAMINATION AND DISCOLORATION. APPLY PAINTS ONLY WHEN TEMPERATURE OF SURFACES TO BE PAINTED AND AMBIENT AIR TEMPERATURES ARE BETWEEN 50 AND 95 DEG F. 		C. AFTER SCRAT(D. PROTE(
	 DO NOT APPLY PAINTS ONLY WHEN TEMPERATURE OF SURFACES TO BE PAINTED AND AMBIENT AIR TEMPERATURES ARE BETWEEN 50 AND 95 DEG F. 1. DO NOT APPLY PAINTS IN SNOW, RAIN, FOG, OR MIST; WHEN RELATIVE HUMIDITY EXCEEDS 85 PERCENT; AT TEMPERATURES LESS THAN 5 DEG F ABOVE THE DEW POINT; OR TO DAMP OR WET SURFACES. 		D. PROTE REPLAC E. AT CON
2.01	TIMBER A. COMPLY WITH DOC PS 20 AND WITH GRADING RULES OF LUMBER-GRADING AGENCIES CERTIFIED BY ALSC'S BOARD OF REVIEW AS APPLICABLE.	3.12	PROTECTION A. PROTECTION
	 FACTORY MARK EACH ITEM OF TIMBER WITH GRADE STAMP OF GRADING AGENCY. TIMBER SPECIES AND GRADE: 		B. REMOV C. INDICA
	 SOUTHERN PINE; NO. 2, SPIB. SIZE: SHOWN IN THE DRAWINGS. STRUCTURAL PROPERTIES: PROVIDE ANY SPECIES AND GRADE THAT, FOR MOISTURE CONTENT PROVIDED, COMPLIES WITH REQUIRED STRUCTURAL PROPERTIES. 	פועום	D. INDICA
	 MOISTURE CONTENT: PROVIDE TIMBER WITH 19 PERCENT MAXIMUM MOISTURE CONTENT AT TIME OF DRESSING DRESSING: PROVIDE DRESSED TIMBER (S4S) UNLESS OTHERWISE INDICATED . 	1.01	THE EXIST
2.02	WOOD TRIM A. GENERAL: LUMBER: DOC PS 20 AND APPLICABLE RULES OF GRADING AGENCIES INDICATED. IF NO GRADING AGENCY IS INDICATED, COMPLY WITH APPLICABLE		USE OF TH
	RULES OF ANY RULES-WRITING AGENCY CERTIFIED BY THE AMERICAN LUMBER STANDARD COMMITTEE'S (ALSC) BOARD OF REVIEW. GRADE LUMBER BY AN AGENCY CERTIFIED BY THE ALSC'S BOARD OF REVIEW TO INSPECT AND GRADE LUMBER UNDER THE RULES INDICATED.	1.02	THE GUTTI EXISTING S
	 FACTORY MARK EACH PIECE OF LUMBER WITH GRADE STAMP OF INSPECTION AGENCY, INDICATING GRADE, SPECIES, MOISTURE CONTENT AT TIME OF SURFACING, AND MILL. FOR EXPOSED LUMBER, MARK GRADE STAMP ON END OR BACK OF EACH PIECE 	1.03	DRAINING. CONTRACT SECTION.
	 B. TIM FOR PAINTED FINISH: 1. EASTERN WHITE PINE, EASTERN HEMLOCK-BALSAM FIR-TAMARACK, EASTERN SPRUCE, OR WHITE WOODS; NELMA, NLGA, WCLIB, OR WWPA D SELECT. 	1.04	PREINSTAL MEETING.
	 MAXIMUM MOISTURE CONTENT: 15 PERCENT FACE SURFACE: SMOOTH 		FOLLOWING A. OWNER
2.03	WOOD-PRESERVATIVE-TREATED MATERIAL, TIMBER A. PRESSURE-TREAT MATERIALS WITH WATERBORNE PRESERVATIVE ACCORDING TO AWPA U1; USE CATEGORY UC2		B. ARCHIT C. CONTR
	 B. PRESERVATIVE CHEMICALS: ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND CONTAINING NO ARSENIC OR CHROMIUM. C. USE PROCESS THAT DOES NOT INCLUDE SUBSTANCES THAT MIGHT INTERFERE WITH APPLICATION OF INDICATED FINISHES. D. AFTER TREATMENT, REDRY MATERIALS TO 10 REPORT MAXIMUM MOISTURE CONTENT. 	1.05	D. CONTR E. FOREM
	 D. AFTER TREATMENT, REDRY MATERIALS TO 19 PERCENT MAXIMUM MOISTURE CONTENT. E. MARK TREATED MATERIALS WITH TREATMENT QUALITY MARK OF AN INSPECTION AGENCY APPROVED BY ALSC'S BOARD OF REVIEW. F. APPLICATION: TREAT ALL HEAVY TIMBER FRAMING UNLESS OTHERWISE INDICATED. 	1.05	SUBMITTAL A. PRODU B. SHOP [
2.04	WOOD-PRESERVATIVE-TREATED MATERIALS, EXTERIOR TRIM A. PROVIDE NEW WOOD TRIM ELEMENTS AS SHOWN IN THE DRAWINGS AND TO MATCH EXISTING TRIM PROFILES. PROVIDE WOOD TRIM THAT MATCHES EXISTING		SPECIF
	EXPOSED GUTTER PROFILES AT CORNICE CONDITIONS. B. WATER-REPELLENT PRESERVATIVE TREATMENT BY NONPRESSURE PROCESS: AWPA N1; DIP, SPRAY, FLOOD, OR VACUUM-PRESSURE TREATMENT.		C. CERTIF D. SAMPL
	 C. PRESERVATIVE CHEMICALS: 3-IODO-2-PROPYNYL BUTYL CARBAMATE (IPBC), COMBINED WITH AN INSECTICIDE CONTAINING CHLOROPYRIFOS (CPF). 1. USE CHEMICAL FORMULATIONS THAT DO NOT BLEED THROUGH OR OTHERWISE ADVERSELY AFFECT FINISHES. DO NOT USE COLORANTS IN SOLUTION TO DISTINGUISH TREATED MATERIAL FROM UNTREATED MATERIAL. 	1.06	QUALITY A A. FABRIC FOR TH
	 DISTINGUISH TREATED MATERIAL FROM UNTREATED MATERIAL. D. PRESERVATIVE TREATMENT BY PRESSURE PROCESS: AWPA U1; USE CATEGORY UC3A. 1. KILN DRY LUMBER AND PLYWOOD AFTER TREATMENT TO A MAXIMUM MOISTURE CONTENT OF 19 AND 18 PERCENT, RESPECTIVELY. 		B. FOR RC FABRIC
	 PRESERVATIVE CHEMICALS: ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND CONTAINING NO ARSENIC OR CHROMIUM. DO NOT USE MATERIAL THAT IS WARPED OR DOES NOT COMPLY WITH REQUIREMENTS FOR UNTREATED MATERIAL. 	1.07	MOCKUPS: FOR FABRI
2.05	TIMBER CONNECTORS CONNECTION A. COLUMN BASE CONNECTION		A. BUILD F
	 MATERIAL: STAINLESS STEEL TYPE 304 OR 316. SIZE: NOMINAL 6-IN X 6-IN 12 GAUGE THICKNESS: 12 GAUGE 	1.08	B. APPRO SPECIF DELIVERY
	 FASTENERS: 3-1/2 LONG EXTERIOR GRADE WOOD SCREWS 0.162 INCH DIAMETER EPOXY : POLYMER OR HYBRID MORTAR ADHESIVE INJECTION SYSTEM, CERTIFIED BY ICC ES TO COMPLY WITH REQUIREMENTS OF THE 2021 IBC. SUITABLE 	1.00	A. DO NOT
	FOR INSTALLATION IN CRACKED AND UNCRACKED CONCRETE. 6. PROVIDE 3/8 INCH DIAMETER THREADED ROD, TYPE 304 STAINLESS STEEL WITH STAINLESS STEEL WASHER AND NUT SIZED TO FIT ROD.		1. STC 2. PRC
	B. BEAM CONNECTIONS: EXISTING BEAM CONSTRUCTION AND PROFILE AT PORCH ROOF CONDITIONS IS NOT KNOWN. CONTRACTOR TO EXPOSE EXISTING BEAM CONDITION AND FINAL DESIGN OF CONNECTION OF NEW 6X6 POSTS TO EXISTING BEAM WILL BE PROVIDED BY THE ARCHITECT/ENGINEER.		B. PROTE NECES
	 MATERIAL: STAINLESS STEEL TYPE 304 OR 316. THICKNESS: 12 GUAGE. FASTENERS:3-1/2 LONG EXTERIOR GRADE WOOD SCREWS 0.162 INCH DIAMETER 	1.09	COORDINA
2.06	EXTERIOR PAINT A. MATERIAL COMPATIBILITY:	2.01	WARRANT
	1. PROVIDE MATERIALS FOR USE WITHIN EACH PAINT SYSTEM THAT ARE COMPATIBLE WITH ONE ANOTHER AND SUBSTRATES INDICATED, UNDER CONDITIONS OF SERVICE AND APPLICATION AS DEMONSTRATED BY MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.	2.01	A. SHEET MOVEN
	2. FOR EACH COAT IN A PAINT SYSTEM, PROVIDE PRODUCTS RECOMMENDED IN WRITING BY TOPCOAT MANUFACTURER FOR USE IN PAINT SYSTEM AND ON SUBSTRATE INDICATED.		OR OTH WATER
	 PROVIDE MATERIALS RECOMMENDED BY THE MANUFACTURER FOR EXTERIOR APPLICATIONS. COLORS: WHITE TO MATCH EXISTING ENVIOLE SEAL OF COMPLEX AND ADDRESS OF FLAT TO MATCH EXISTING 		B. COMPL REQUIF
2.07	 FINISH: SEMI-GLOSS OR FLAT TO MATCH EXISTING. PROVIDE TWO COATS OF ACRYLIC LATEX PAINT AND ONE COAT OF ACRYLIC LATEX PRIMER. MISCELLANEOUS MATERIALS 		C. SPRI W CAPAB 1. DES
2.07	A. FASTENERS FOR EXTERIOR FINISH CARPENTRY TRIM: PROVIDE GALVANIZED FINISH NAILS, IN SUFFICIENT LENGTH TO PENETRATE NOT LESS THAN 1-1/2 INCHES (38 MM) INTO WOOD SUBSTRATE.		D. THERM
	 B. FOR PRESSURE-PRESERVATIVE-TREATED WOOD, PROVIDE STAINLESS STEEL OR HOT DIP GALVANIZED FASTENERS. C. FOR APPLICATIONS NOT OTHERWISE INDICATED, PROVIDE STAINLESS STEEL OR HOT DIP GALVANIZED FASTENERS. 	2.02	SHEET ME A. FOR ST
	 D. WOOD GLUE: WATERPROOF RESORCINOL GLUE RECOMMENDED BY MANUFACTURER FOR EXTERIOR CARPENTRY USE. E. ADHESIVE FOR CELLULAR PVC TRIM: PRODUCT RECOMMENDED BY TRIM MANUFACTURER. E. MOOD FILLER: PROVIDE WOOD RUTTY FOR FILLING OVER FASTENER UFACES ON EXPOSED SUBFACES OF WOOD TRIM. 		UNDER B. FOR LC
2.08	 F. WOOD FILLER: PROVIDE WOOD PUTTY FOR FILLING OVER FASTENER HEADS ON EXPOSED SURFACES OF WOOD TRIM. FABRICATION A. SHOP FABRICATE MEMBERS BY CUTTING AND RESTORING EXPOSED SURFACES TO MATCH SPECIFIED SURFACING. FINISH EXPOSED SURFACES TO REMOVE 		MANUF FLAT SI PRETRI
3.01	PLANING OR SURFACING MARKS, AND TO PROVIDE A FINISH EQUIVALENT TO THAT PRODUCED BY MACHINE SANDING WITH NO. 120 GRIT SANDPAPER. REMOVE EXISTING CORNICE AND TRIM ELEMENTS INDICATED. INSPECT EXISTING STRUCTURAL COMPONENTS FOR DETERIORATION OR DAMAGE. SURVEY ALL		SEACO ROOF C
	STRUCTURAL MEMBERS INDICATED TO BE FIELD VERIFIED AND REPAIRED. NOTIFY THE ARCHITECT/ENGINEER IF CONDITIONS OUTSIDE THE SCOPE OF REPAIRS ARE FOUND TO BE DETERIORATED.	2.03	UNDERLAY A. SELF-A
2 00	A. PROVIDE TEMPORARY SUPPORTS AND SHORING PRIOR TO REMOVAL OF STRUCTURAL MEMBERS TO PREVENT MOVEMENT, SETTLEMENT OR DISPLACEMENT OF EXISTING BUILDING ELEMENTS.		SPECIF MANUF
J.UZ	EXAMINE SUBSTRATES, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK. A. EXAMINE FINISH CARPENTRY MATERIALS BEFORE INSTALLATION. REJECT MATERIALS THAT ARE WET, MOISTURE DAMAGED, AND MOLD DAMAGED.	2.04	MINUS : B. FELT: A PROVIDE N
3.03	 EXAMINE FINISE CARPENTRY MATERIALS BEFORE INSTALLATION. REJECT MATERIALS THAT ARE WET, MOISTORE DAMAGED, AND MOLD DAMAGED. B. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. CLEAN SUBSTRATES OF PROJECTIONS AND SUBSTANCES DETRIMENTAL TO APPLICATION. 	2.04	FLASHING A
3.04	PRIME LUMBER AND MOLDINGS TO BE PAINTED, INCLUDING BOTH FACES AND EDGES, UNLESS FACTORY PRIMED. A. CUT TO REQUIRED LENGTHS AND PRIME ENDS. SAND SURFACES THAT WILL BE EXPOSED TO VIEW AND REMOVE SANDING DUST. PRIME EDGES, ENDS, FACES,		WITHSTAN A. GENER
0.5	UNDERSIDES, AND BACKSIDES OF WOOD. AFTER PRIMING, FILL HOLES AND IMPERFECTIONS IN THE FINISH SURFACES WITH PUTTY OR PLASTIC WOOD FILLER. SAND SMOOTH WHEN DRIED.		B. EXPOSI SEALIN
3.05 3.06	THE MAXIMUM MOISTURE CONTENT OF WOOD WHEN MEASURED WITH AN ELECTRONIC MOISTURE METER SHALL BE 15 PERCENT BEFORE APPLICATION. CLEAN SUBSTRATES OF SUBSTANCES THAT COULD IMPAIR BOND OF PAINTS, INCLUDING DUST, DIRT, OIL, GREASE, AND INCOMPATIBLE PAINTS AND ENCAPSULANTS.		C. BLIND F D. SPIKES
	 PROCEED WITH PAINTING APPLICATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. INSTALLATION, TIMBER 		E. FASTEN
3.07	A. GENERAL: ERECT TIMBER FRAMING TRUE AND PLUMB. PROVIDE TEMPORARY BRACING TO MAINTAIN LINES AND LEVELS UNTIL PERMANENT SUPPORTING	1	

RZCONTAL AND SLOPING MEMBERS WITH CROWN EDGE UP, AND PROVIDE NOT LESS THAN 4 INCHES (102 MM) OF BEARING ON SUPPORTS. PROVIDE S MEMBERS UNLESS OTHERWISE INDICATED; TIE TOGETHER OVER SUPPORTS WITH METAL STRAP TIES IF NOT CONTINUOUS. D TEMPORARILY SUPPORT HEAVY TIMBER FRAMING TO PREVENT SURFACE DAMAGE, COMPRESSION, AND OTHER EFFECTS THAT MIGHT INTERFERE ITED FINISH. JOID EXTRA CUTTING AFTER FABRICATION. WHERE FIELD FITTING IS UNAVOIDABLE, COMPLY WITH REQUIREMENTS FOR SHOP FABRICATION. MEMBERS BY CUTTING AND RESTORING EXPOSED SURFACES TO MATCH SPECIFIED SURFACING. DR FASTENERS USING TIMBER CONNECTORS AS TEMPLATES. JSEED SURFACES TO REMOVE PLANING OR SURFACING MARKS, AND TO PROVIDE A FINISH EQUIVALENT TO THAT PRODUCED BY MACHINE SANDING WITH I SANDPAPER. SERVATIVE-TREATED MEMBERS MUST BE CUT DURING ERECTION, APPLY A FIELD-TREATMENT PRESERVATIVE TO COMPLY WITH AWPA MA. BER CONNECTORS AS INDICATED. HERVISE INDICATED. HERVISE INDICATED. BOLTS WITH SAME ORIENTATION WITHIN EACH CONNECTION AND IN SIMILAR CONNECTIONS. TS WITH ORIENTATION AS INDICATED OR, IF NOT INDICATED, AS DIRECTED BY ARCHITECT. EXTERIOR TRIM T-GRAIN LUMBER WITH BARK SIDE EXPOSED TO WEATHER. WITH MINIMUM NUMBER OF JOINTS AS IS PRACTICAL, USING FULL-LENGTH PIECES FROM MAXIMUM LENGTHS OF LUMBER AVAILABLE. DO NOT USE S THAN 24 INCHES (610 MM) LONG, EXCEPT WHERE NECESSARY. JOINTS FOR END-TO-END JOINTS. ND JOINTS IN ADJACENT AND REALTED MEMBERS. ITANY AND MITER AT CORNERS TO PRODUCE TIGHT-FITTING JOINTS, WITH FULL-SURFACE CONTACT THROUGHOUT LENGTH OF JOINT. (S OF CASINGS TO PROVIDE UNFORM THEXINESS ACROSS JOINTS, WHERE NECESSARY FOR ALIGNMENT. E FASTENING IS UNAVOIDABLE, COUNTERSINK FASTENERS, FILL SURFACE FLUSH, AND SAND UNLESS OTHERWISE INDICATED. PAINT TS IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS. ATORS AND TECHNIQUES SUITED FOR PAINT AND SUBSTRATE INDICATED. AANT TS IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS. ATORS AND TECHNIQUES SUITED FOR PAINT AND SUBSTRATE INDICATED. ACOSS BEHIND MOVABLE ITEMS THE SAME WAY AS SIMILAR EXPOSED SUR		MISCELLANEOUS MATERIALS: A SEALANT TAPE: PRESSURE-SENSITIVE, 100 PERCENT SOLIDS, POLYISOBUTYLENE COMPOUND SEALANT TAPE WITH RELEASE-PAPER BACKING, PROVIDE PERMANENTLY ELASTIC, NONSAG, NONTXIC, NONSTAINING TAPE 121 INCH WIDE AND 1/8 INCH THICK. B ELASTOMERIC SEALANT: ASTIM C1311, SINGLE-COMPONENT, SOLVENT-RELEASE BUTYL RUBBER SEALANT; POLYISOBUTYLENE PLASTICIZED; HEAVY BODIED FOR HOOKED-TYPE EXPANSION JOINTS WITH LIMITED MOVEMENT. D. EPOXY SEALANT: ASTM C1311, SINGLE-COMPONENT, SOLVENT-RELEASE BUTYL RUBBER SEALANT; POLYISOBUTYLENE PLASTICIZED; HEAVY BODIED FOR HOOKED-TYPE EXPANSION JOINTS WITH LIMITED MOVEMENT. D. EPOXY SEAM SEALER: TWO-PART, NONCORROSIVE, ALUMINUM SEAM-CEMENTING COMPOUND, RECOMMENDED BY ALUMINUM MANUFACTURER FOR EXTERIOR NONMOVING JOINTS, INCLUDING RUVETED JOINTS. E BITUMINOUS COATING: COLD-APPLIED ASPHALT EMULSION IN ACCORDANCE WITH ASTM D1187/D1187M. F. ASPHALT ROOFING CEMENT: ASTM D4580D4586M, ASBESTOS FREE, OF CONSISTENCY REQUIRED FOR APPLICATION. G. SOLDER: FOR COPPER, ASTM B32, GRADE SN50, 50 PERCENT TIN AND 50 PERCENT LEAD. FABRICATE SHEET METAL FLASHING AND TRIM TO COMPLY WITH DETAILS INDICATED AND RECOMMENDATIONS IN CITED SHEET METAL STANDARD THAT APPLY TO DESIGN, DIMENSIONS, GEOMETRY, METAL THICKNESS, AND OTHER CHARACTERISTICS OF ITEM REQUIRED. B. FABRICATE SHEET METAL FLASHING AND TRIM IN SHOP TO GREATEST EXTENT POSSIBLE. C. FABRICATE SHEET METAL FLASHING AND TRIM IN SHOP TO GREATEST EXTENT POSSIBLE. C. FABRICATE SHEET METAL FLASHING AND TRIM IN SHOP TO BE COVERED AND DRECOMMENDATIONS IN CITED SHEET METAL STANDARD THAT SPECIFIED FOR EACH APPLICATION NO METAL. D. VERIFY SHAPES AND DIMENSIONS OF SURFACES TO BE COVERED AND OBTIAN FIELD MEASUREMENTS FOR ACCURATE FIT DEFORE SHOP FABRICATION. E. FORM SHEET METAL FLASHING AND TRIM IN THICKNESS OR WEIGHT NEEDED TO COMPLY WITH PERFORMANCE REQUIREMENTS, BUT NOT LESS THAN THAT SPECIFIED FOR EACH APPLICATION NO METAL. D. VERIFY SHAPES AND DIMENSIONS OF SURFACES TO BE COVERED AND OBTIAN FIELD MEASUREMENTS FOR ACCURATE FIT DEF
RIAL ARE TO BE APPLIED. PROVIDE SUFFICIENT DIFFERENCE IN SHADE OF UNDERCOATS TO DISTINGUISH EACH SEPARATE COAT. PER CURING TIME IN ACCORDANCE WITH THE PAINT MANUFACTURER'S REQUIREMENTS PRIOR TO APPLICATION OF PAINT. DATS OR OTHER CONDITIONS SHOW THROUGH TOPCOAT, APPLY ADDITIONAL COATS UNTIL CURED FILM HAS A UNIFORM PAINT FINISH, COLOR, AND DE. TS TO PRODUCE SURFACE FILMS WITHOUT CLOUDINESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, ROLLER TRACKING, RUNS, SAGS, ROPINESS, OR FACE IMPERFECTIONS. CUT IN SHARP LINES AND COLOR BREAKS.	2.08	 SEALANT MANUFACTURER FOR INTENDED USE. M. DO NOT USE GRAPHITE PENCILS TO MARK METAL SURFACES. HANGING GUTTERS AT LOW-SLOPED ROOF CONDITIONS: A. FABRICATE TO CROSS SECTION REQUIRED, COMPLETE WITH END PIECES, OUTLET TUBES, AND OTHER ACCESSORIES AS REQUIRED. B. FABRICATE IN MINIMUM 96-INCH-LONG SECTIONS. C. FURNISH FLAT-STOCK GUTTER BRACKETS AND FLAT-STOCK GUTTER SPACERS AND STRAPS FABRICATED FROM SAME METAL AS GUTTERS, OF SIZE RECOMMENDED BY CITED SHEET METAL STANDARD, BUT WITH THICKNESS NOT LESS THAN TWICE THE GUTTER THICKNESS.
IAGED SURFACES AND FINISHES AFTER COMPLETING ERECTION INSTALLATION. REPLACE DAMAGED HEAVY TIMBER FRAMING WOOD COMPONENTS IF E NOT APPROVED BY ARCHITECT/ENGINEER. NERY FOR UNIFORM APPEARANCE. ERIOR FINISH CARPENTRY ON EXPOSED AND SEMIEXPOSED SURFACES.	2.09	 D. FABRICATE EXPANSION JOINTS, EXPANSION-JOINT COVERS AND GUTTER ACCESSORIES FROM SAME METAL AS GUTTERS. SHOP FABRICATE INTERIOR AND EXTERIOR CORNERS. E. PROVIDE OGEE GUTTER WITH WIDTH AND DEPTH TO MATCH DIMENSIONS INDICATED IN DRAWINGS. BUILT-IN GUTTERS: A. FABRICATE TO CROSS SECTION REQUIRED, WITH RIVETED AND SOLDERED JOINTS, COMPLETE WITH END PIECES, OUTLET TUBES, AND OTHER SPECIAL
ACTORY-APPLIED FINISHES TO RESTORE DAMAGED OR SOILED AREAS. PLETING PAINT APPLICATION, CLEAN SPATTERED SURFACES. REMOVE SPATTERED PAINTS BY WASHING, SCRAPING, OR OTHER METHODS. DO NOT R DAMAGE ADJACENT FINISHED SURFACES.		ACCESSORIES AS REQUIRED. B. FABRICATE IN MINIMUM 96-INCH-LONG SECTIONS. FABRICATE EXPANSION JOINTS AND ACCESSORIES FROM SAME METAL AS GUTTERS UNLESS OTHERWISE INDICATED.
ORK OF OTHER TRADES AGAINST DAMAGE FROM PAINT APPLICATION. CORRECT DAMAGE TO WORK OF OTHER TRADES BY CLEANING, REPAIRING, AND REFINISHING, AS APPROVED BY ARCHITECT/ENGINEER, AND LEAVE IN AN UNDAMAGED CONDITION. TION OF CONSTRUCTION ACTIVITIES OF OTHER TRADES, TOUCH UP AND RESTORE DAMAGED OR DEFACED PAINTED SURFACES. STALLED PRODUCTS FROM DAMAGE FROM WEATHER AND OTHER CAUSES DURING CONSTRUCTION. D REPLACE FINISH CARPENTRY MATERIALS THAT ARE WET, MOISTURE DAMAGED, AND MOLD DAMAGED. S THAT MATERIALS ARE WET OR MOISTURE DAMAGED INCLUDE, BUT ARE NOT LIMITED TO, DISCOLORATION, SAGGING, OR IRREGULAR SHAPE. S THAT MATERIALS ARE MOLD DAMAGED INCLUDE, BUT ARE NOT LIMITED TO, FUZZY OR SPLOTCHY SURFACE CONTAMINATION AND DISCOLORATION. THAT MATERIALS ARE MOLD DAMAGED INCLUDE, BUT ARE NOT LIMITED TO, FUZZY OR SPLOTCHY SURFACE CONTAMINATION AND DISCOLORATION. THAT MATERIALS ARE MOLD DAMAGED INCLUDE, BUT ARE NOT LIMITED TO, FUZZY OR SPLOTCHY SURFACE CONTAMINATION AND DISCOLORATION. THAT MATERIALS ARE MOLD DAMAGED INCLUDE, BUT ARE NOT LIMITED TO, FUZZY OR SPLOTCHY SURFACE CONTAMINATION AND DISCOLORATION. THAT MATERIALS ARE MOLD DAMAGED INCLUDE, BUT ARE NOT LIMITED TO, FUZZY OR SPLOTCHY SURFACE CONTAMINATION AND DISCOLORATION. THAT MATERIALS ARE MOLD DAMAGED INCLUDE, BUT ARE NOT LIMITED TO, FUZZY OR SPLOTCHY SURFACE CONTAMINATION AND DISCOLORATION. THAT MATERIALS ARE MOLD DAMAGED INCLUDE, BUT ARE NOT LIMITED TO, FUZZY OR SPLOTCHY SURFACE CONTAMINATION AND DISCOLORATION. THAT MATERIALS ARE MOLD DAMAGED INCLUDE, BUT ARE NOT LIMITED TO SUCE DRAINAGE AND LEAKAGE. THE EXISTING GUTTERS ARE STALLED AS SURFACE MOUNTED GUTTER SYSTEMS THAT PROVIDE AN EXTENSION OF THE DECORATIVE CORNICE AT THE ROOF EAVE. HOWEVER, THE TTER AS AN AESTHETIC COMPONENT IN THIS APPLICATION LIMITS THE ABILITY TO SLOPE THE GUTTER. THE REPAIRS ARE INTENDED TO CREATE A NEW ER PROFILE THAT RECREATES THE APPEARANCE OF THE EXISTING CORNICE WHILE CREATING A GUTTER SYSTEM THAT CAN BE SLOPED TO DRAIN.	3.01	 FABRICATE GUTTERS WITH BUILT-IN EXPANSION JOINTS AND GUTTER-END EXPANSION JOINTS AT WALLS. DEMOLITION: REMOVE EXISTING GUTTER AND CORNICE, PROVIDE TEMPORARY WEATHER PROTECTION TO PREVENT MIGRATION OF MOISTURE INTO THE BUILDING. CAREFULLY REMOVE EXISTING ROOFING SLATE OR METAL ROOF ATTACHMENT AT EAVE OF THE ROOF TO FACILITATE THE WORK. SALVAGE EXISTING SLATE FOR RE-USE. PRIOR TO FORECASTED WIND EVENTS, PROVIDE TEMPORARY MEASURES TO SECURE ROOF ELEMENTS THAT HAVE BEEN FREED TO PREVENT WIND DAMAGE TO METAL ROOF CLADDING. DAMAGE TO METAL ROOFING CAUSED BY CONTRACTOR NEGLIGENCE SHALL BE REPAIRED AT NO COST TO THE OWNER. EXAMINATION: ONCE EXISTING GUTTER AND CORNICE HAS BEEN REMOVED, INSPECT THE CONDITIONS WITH THE INSTALLER AND ARCHITECT/ENGINEER PRESENT TO VERIFY CONDITION OF EXISTING SUBSTRATES. NOTIFY ARCHITECT/ENGINEER IF CONDITIONS PREVENT INSTALLATION OF GUTTERS AS INDICATED IN THE DRAWINGS. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. A. KNOWLEDGE OF THE EXISTING SUBSTRATE CONDITIONS IS LIMITED BASED ON THE DOCUMENTS PROVIDED FOR THE DEVELOPMENT OF THE DESIGN. CONTRACTOR SHALL CREATE EXPLORATORY OPENINGS 6 FEET WIDE TO EXPOSE A REPRESENTATIVE EAVE CONDITION AT THE METAL ROOF AND SLATE ROOF FOR OBSERVATION BY THE ARCHITECT/ENGINEER PRIOR TO DEMOLITION TO ALLOW FOR VERIFICATION OF CONDITIONS AND ISSUANCE OF ADDITIONAL DIRECTION FOR GUTTER CONSTRUCTION AS NECESSARY. B. PROVIDE ACCESS TO EXPLORATORY OPENINGS IN A TIMELY FASHION TO AFFORD A MINIMUM OF 14-BUSINESS DAYS FOR THE DEVELOPMENT OF ADDITIONAL DETAILS IF NECESSARY.
STEM REPAIRS DO NOT INCLUDE REPLACEMENT OF THE UNDERGROUND STORMWATER PIPING. NEW DOWNSPOUTS ARE TO INTEGRATE WITH THE MWATER CONNECTIONS AT THE BASE OF DOWNSPOUTS. CONTRACTOR SHALL FIELD VERIFY THAT EXISTING STORMWATER PIPING IS CLEAR AND FREE IFY THE ARCHITECT/ENGINEER IF ANY EXISTING UNDERGROUND DRAIN LINES DO NOT DRAIN PROPERLY. SHALL SIZE REPLACEMENT DOWNSPOUTS TO PROPERLY CONNECT WITH EXISTING STORMWATER DRAIN LINE CONNECTIONS AND NEW GUTTER CROSS ON CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE. CONTRACTOR TO PREPARE AGENDA AND DISTRIBUTE MEETING MINUTES AFTER THE TING AGENDA SHALL INCLUDE REVIEW FIELD VERIFIED DIMENSIONS, SHOP DRAWINGS, SCHEDULE AND COORDINATION OF WORK. AT A MINIMUM, THE RTIES SHALL BE PRESENT: EPRESENTATIVE, ENGINEER'S PROJECT MANAGER, DR'S SUPERINTENDENT, DR THE INSTALLER	3.03	 INSTALL SELF-ADHERED HIGH TEMPERATURE UNDERLAYMENT AT LOCATIONS INDICATED IN THE DRAWINGS. A. APPLY MANUFACTURER'S RECOMMENDED PRIMER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO MEMBRANE INSTALLATION. PROTECT EXPOSED SURFACES FROM PRIMER. B. INSTALL MEMBRANE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. C. LAP ADJACENT SECTIONS OF MEMBRANE AND METAL GUTTER MATERIAL NOT LESS THAN 4 INCHES. D. SHINGLE MEMBRANE TO PROPERLY SHED WATER. E. INSTALL MEMBRANE FREE OF WRINKLES, BUBBLES OR AIR POCKETS, F. USE HAND ROLLERS TO PROMOTE ADHESION AND PREVENT WRINKLES. G. SEAL LEADING EDGES AS REQUIRED BY THE MANUFACTURER WITH THE MANUFACTURER'S RECOMMENDED TERMINATION SEALANT. H. COVER MEMBRANE WITHIN THE UV EXPOSURE LIMITS OUTLINED BY THE MANUFACTURER. DO NOT LEAVE ANY PORTION OF THE MEMBRANE PERMANENTLY EXPOSED TO UV. INSTALL ROOFING FELT AS NECESSARY TO SUPPLEMENT EXISTING ROOF UNDERLAYMENT AT GUTTER INTEGRATIONS. A. SHINGLE ROOFING FELT TO PROPERLY SHED WATER.
<pre>ci, Produce The MANEKATUREER PRULIESE PROJECULTERIA/TIERE FOR EACH PROJECT HOADTED, NULLEE MATELING AND THE AUTOMATION AND THE MATERIAL THE FUEL PROFINES STOREMONTHAND THAT IS ANS PROVINDING MITCHANDRO FITE PROVINDING AND THAT IS ANS PROVINDING THE AUTOMATION AND THAT IS ANS PROVINDING FOR EXCENTION OF MATERIAL THE, FUEL PROVINDING THAT IS ANS PROVINDING FOR EXCENTION OF MATERIAL THE, FUEL PROVINDING THAT IS ANS PROVINDING AND THAT PROVINDING AND THAT IS ANS PROVINDING FOR EXCENTION OF MATERIAL THE FUEL PROVINDING FOR AND THAT IS ANS PROVINDING FOR AND THAT IS AND THAT IS ANS PROVINDING FOR AND THAT IS AND THAT IS ANS PROVINDING FOR AND THAT IS AND THAT PROVINDING FOR AND THAT IS AND THAT IS ANS PROVINDING FOR AND THAT IS AND THAT PROVINDING FOR AND THAT IS AND THAT IS ANS PROVINDING FOR AND THAT IS AND THAT IS ANS PROVINDING FOR AND THAT IS AND THAT IS</pre>	3.06	 LPARAUCHT SCHONG OF FEIT AND FEIT AND FEUT WITH CONTROL QUERAVEEN INCLUSS THAN 4 HORES. CERREN, GET LETK, MARAUMA AND TRATO CONFY WITH CENTS INDUCATE MAR RECOMPRISED OF CITED SEET MENTS STANDARD THAT APPLY TO MENTAL AND DEVELOPENCIAL MEMOLING AND THAT APPLY TO MENTAL AND THAT APPLY THAT A SAME AND THAT APPLY TO MENTAL AND THAT APPLY THAT A SAME AND THAN NO OTHER CONFERENCES OF THE WORK SECURELY IN RUCK, WITH PROVIDED HET CALL, AND THAN THAT THAT A SAME AND THAN NO OTHER CONFERENCES OF THE WORK SECURELY IN RUCK, WITH PROVIDED HET CALL, AND THAN TO OTHER CONFERENCES OF THAT APPLY TO MENTAL ADDITIONAL CLASS TO MENTAL THAT THAT A SAME AND THAN NO OTHER CONFERENCES OF THAT APPLY TO MENTAL ADDITIONAL CLASS TO MENTAL THAT A SAME AND THAN NO OTHER CONFERENCES OF THAT APPLY TO MENTAL ADDITIONAL CLASS TO MENTAL THAT AND APPLY ADDITIONAL CLASS TO MENTAL THAT AND THAN THAT APPLY TO MENTAL ADDITIONAL CLASS TO MENTAL THAT AND ADDITIONAL ADDITIONAL CLASS TO MENTAL THAT AND ADDITIONAL ADDITIONAL CLASS TO MENTAL THAT AND ADDITIONAL ADDITIONAL CLASS TO MENTAL THAT AND ADDITIONAL CLASS TO MENTAL THAT ADDITIONAL CLASS TO ME

L. INSTALL GUTTER WITH EXPANSION JOINTS AT MIDSPAN BETWEEN DOWNSPOUTS, BUT NOT EXCEEDING 50 FT. APART. INSTALL EXPANSION-JOINT CAPS. RESSURE-SENSITIVE, 100 PERCENT SOLIDS, POLYISOBUTYLENE COMPOUND SEALANT TAPE WITH RELEASE-PAPER BACKING. PROVIDE M. BED METAL GUTTER IN FULL BED OF BUTYL SEALANT. ASTIC, NONSAG, NONTOXIC, NONSTAINING TAPE 1/2 INCH WIDE AND 1/8 INCH THICK. 3.08 DOWNSPOUTS:

- ALANT: ASTM C920, ELASTOMERIC SILICONE POLYMER SEALANT; TYPE NS, CLASS 50, TO SEAL JOINTS IN SHEET METAL FLASHING AND TRIM AND A. CREATE WATERTIGHT INTEGRATIONS AT CONNECTION OF DOWNSPOUTS WITH METAL GUTTER. B. JOIN SECTIONS WITH 1-1/2-INCH TELESCOPING JOINTS. ASTM C1311, SINGLE-COMPONENT, SOLVENT-RELEASE BUTYL RUBBER SEALANT; POLYISOBUTYLENE PLASTICIZED; HEAVY BODIED FOR
 - C. PROVIDE HANGERS WITH FASTENERS DESIGNED TO HOLD DOWNSPOUTS SECURELY TO WALLS.
 - D. LOCATE HANGERS AT TOP AND BOTTOM AND AT APPROXIMATELY 60 INCHES OC.
 - E. PROVIDE ELBOWS AT BASE OF DOWNSPOUT TO DIRECT WATER AWAY FROM BUILDING. F. CONNECT DOWNSPOUTS TO UNDERGROUND DRAINAGE SYSTEM.
 - 3.09 CLEANING REMOVE SEALANT, METAL FILINGS, AND DEBRIS WITHIN GUTTER SYSTEM OR ON EXPOSED GUTTER SURFACES.

DIVISION 07 SLATE ROOF REPAIRS

- 1.01 SLATE ROOF REPAIRS INCLUDE THE REPLACEMENT OF CRACKED, DAMAGED OR MISSING SLATE ROOF SHINGLES; AND THE INSTALLATION OF NEW ROOF UNDERLAYMENT WHERE EXISTING UNDERLAYMENT IS FOUND TO BE DAMAGED, DETERIORATED, OR MISSING AT LOCATIONS OF SLATE SHINGLE REPLACEMENT. 1.02 THERE HAVE NOT BEEN REPORTS OF WATER INFILTRATION WITHIN THE FIELD OF THE SLATE ROOF. THE SLATE ROOF REPAIRS ARE MAINTENANCE REPAIRS IN NATURE. IF EXISTING ROOF FLASHINGS OR UNDERLAYMENT IS IDENTIFIED TO BE COMPROMISED OR IN A CONDITION THAT WOULD NOT MANAGE WATER PROPERLY, NOTIFY THE OWNER AND ARCHITECT/ENGINEER.
- 1.03 THE EXISTING DETAILS FOR THE SLATE ROOF ARE NOT FULLY KNOWN, AND DRAWINGS FROM ORIGINAL CONSTRUCTION DO NOT EXIST. DETAILS AND PROJECT REQUIREMENTS ARE BASED ON TYPICAL ROOF REQUIREMENTS. NOTIFY THE ARCHITECT/ENGINEER IF PROJECT REQUIREMENTS DO NOT ALIGN WITH EXISTING ROOF CONDITIONS ONCE ACCESS IS PROVIDED FOR VERIFICATION OF EXISTING CONDITIONS.
- 1.04 UNIT PRICES A. SLATE SHINGLE AND ROOF UNDERLAYMENT REPAIR WORK BEYOND THE BASE BID SHALL BE PERFORMED AS UNIT PRICE WORK AND THE TOTAL VALUE OF THE CONSTRUCTION CONTRACT SHALL BE REVISED UP OR DOWN THROUGH CHANGE ORDERS USING UNIT PRICES SUBMITTED AT THE TIME OF BID AND FIELD VERIFIED QUANTITIES THAT HAVE BEEN APPROVED BY THE ARCHITECT/ENGINEER.
- B. CONTRACTOR SHALL PROVIDE ACCESS AND VISUALLY SURVEY THE ROOF TO IDENTIFY LOCATIONS OF CRACKED OR MISSING SLATE SHINGLES. CONTRACTOR SHALL DOCUMENT THE TYPE OF REPAIR, LOCATION OF REPAIR, AND QUANTITY FOR ALL UNIT PRICE ITEMS. 1.05 PREINSTALLATION CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE. CONTRACTOR TO PREPARE AGENDA AND DISTRIBUTE MEETING MINUTES AFTER THE MEETING. MEETING AGENDA SHALL INCLUDE REVIEW FIELD VERIFIED QUANTITIES FOR EACH TYPE OF SLATE ROOF REPAIR ON THE PROJECT, REVIEW APPROVED
- SUBMITTALS, DISCUSS SEQUENCE OF WORK AND COORDINATION OF WORK BASED ON BUILDING OPERATIONS. AT A MINIMUM, THE FOLLOWING PARTIES SHALL BE PRESENT: A. OWNER'S REPRESENTATIVE,
- B. ARCHITECT/ENGINEER'S PROJECT MANAGER,
- C. CONTRACTOR'S PROJECT MANAGER,
- D. CONTRACTOR'S SUPERINTENDENT, E. FOREMAN FOR THE INSTALLER
- 1.06 SUBMITTALS:
- A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INCLUDE CONSTRUCTION DETAILS, MATERIAL DESCRIPTIONS, DIMENSIONS OF INDIVIDUAL COMPONENTS AND PROFILES, AND FINISHES. INCLUDE MATERIAL DATA AND CERTIFICATES INDICATING COMPLIANCE WITH SPECIFIED MATERIAL PROPERTIES FOR EACH OF THE FOLLOWING: 3. SLATE TILES AND FASTENERS.
- 4. NEW FELT UNDERLAYMENT, SELF-ADHERED TRANSITION MEMBRANE, AND ACCESSORIES.
- B. SHOP DRAWINGS: INCLUDE PLAN VIEW, ELEVATIONS, AND DETAILS FOR SLATE TILE CONDITIONS, TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING CONDITIONS: LOCATIONS OF ALL CONDITIONS REQUIRING SLATE TILE REPAIRS BASED ON FIELD SURVEY OF LOOSE, MISSING, AND DAMAGED SLATE TILES. 2. DETAILS FOR INTEGRATION OF NEW SELF-ADHERED TRANSITION MEMBRANE WITH EXISTING UNDERLAYMENT AND NEW FLASHING ELEMENTS.
- TYPICAL INSTALLATION AND ATTACHMENT FOR NEW SELF-ADHERED TRANSITION MEMBRANE AND SLATE TILES. C. SAMPLES: PROVIDE FULL SIZE SAMPLES OF SLATE SHINGLES FOR EACH COLOR, SHAPE AND TEXTURE FOR VERIFICATION OF MATCH WITH EXISTING SLATE SHINGLES.
- 7 MOCKUPS
- A. BUILD IN-PLACE MOCKUPS TO VERIFY SELECTIONS MADE UNDER SAMPLE SUBMITTALS, TO DEMONSTRATE WORKMANSHIP, INSTALLATION METHOD, AESTHETIC EFFECTS, AND TO SET QUALITY STANDARDS FOR MATERIALS AND EXECUTION. B. BUILD MOCKUPS FOR SLATE SHINGLES INCLUDING RELATED ROOFING MATERIALS.
- C. SIZE: FOUR (4) FEET WIDE, TO EXTEND TWO (2) FEET ABOVE THE ROOF LINE TO ALLOW FOR INSTALLATION OF NEW SELF-ADHERED TRANSITION MEMBRANE, NEW METAL FLASHING, AND INTEGRATION WITH EXISTING UNDERLAYMENT.
- D. APPROVAL OF MOCKUPS DOES NOT CONSTITUTE APPROVAL OF DEVIATIONS FROM THE CONTRACT DOCUMENTS CONTAINED IN MOCKUPS UNLESS ARCHITECT SPECIFICALLY APPROVES SUCH DEVIATIONS IN WRITING.
- E. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, APPROVED MOCKUPS MAY BECOME PART OF THE COMPLETED WORK IF UNDISTURBED AT TIME OF SUBSTANTIAL COMPLETION.
- 1.08 DELIVERY. STORAGE AND HANDLING A. STORE UNDERLAYMENT ROLLS IN A DRY, WELL-VENTILATED LOCATION PROTECTED FROM WEATHER, SUNLIGHT, AND MOISTURE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS
- B. STORE ON END, ON PALLETS OR OTHER RAISED SURFACES.
- C. DO NOT DOUBLE-STACK ROLLS.
- D. PROTECT UNUSED UNDERLAYMENT FROM WEATHER, SUNLIGHT, AND MOISTURE WHEN LEFT OVERNIGHT OR WHEN ROOFING WORK IS NOT IN PROGRESS. E. HANDLE, STORE, AND PLACE ROOFING MATERIALS IN A MANNER TO PREVENT DAMAGE TO ROOF DECK OR STRUCTURAL SUPPORTING MEMBERS. 1.09 FIELD CONDITIONS
- A. ENVIRONMENTAL LIMITATIONS: PROCEED WITH INSTALLATION ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS PERMIT PRODUCT INSTALLATION AND RELATED WORK TO BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND WARRANTY REQUIREMENTS. 0 WARRANTY
- A. ROOFING INSTALLER'S WARRANTY: ON WARRANTY FORM AT END OF THIS SECTION, SIGNED BY INSTALLER, IN WHICH INSTALLER AGREES TO REPAIR OR REPLACE. COMPONENTS OF SLATE-SHINGLE ROOFING THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD. B. WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
- 2.01 SOURCE LIMITATIONS: OBTAIN EACH TYPE OF PRODUCT FROM A SINGLE MANUFACTURER.
- 2.02 PERFORMANCE REQUIREMENTS:

A. EXTERIOR FIRE-TEST EXPOSURE: PROVIDE SLATE SHINGLES AND RELATED ROOFING MATERIALS IDENTICAL TO THOSE OF ASSEMBLIES TESTED FOR CLASS A FIRE RESISTANCE IN ACCORDANCE WITH ASTM E108 OR UL 790 BY UNDERWRITERS LABORATORIES OR ANOTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. IDENTIFY PRODUCTS WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AGENCY. 2.03 SLATE SHINGLES

- A. SLATE SHINGLES: ASTM C406/C406M, GRADE S1; HARD, DENSE, AND SOUND; WITH CHAMFERED EDGES AND NAIL HOLES MACHINE PUNCHED OR DRILLED AND COUNTERSUNK; WITH NO BROKEN OR CRACKED SLATES, NO BROKEN EXPOSED CORNERS, AND NO BROKEN CORNERS ON COVERED ENDS THAT COULD SACRIFICE NAILING STRENGTH OR LAYING OF A WATERTIGHT ROOF
- B. THICKNESS AND SURFACE TEXTURE: MATCH EXISTING. C. LENGTH: MATCH EXISTING. SLATE IN THE FIELD OF ROOF DIFFERS FROM SLATE ALONG THE RIDGE.
- D. WIDTH: MATCH EXISTING. E. NAIL HOLES: TWO PER SHINGLE.
- F. BUTT SHAPE: STANDARD SQUARE CUT.
- G. COLOR: GRAY OF SHADE AND COLOR TO MATCH EXISTING.
- H. WEATHER-EXPOSURE COLOR CHANGE: WEATHERING.
- I. STARTER SLATE: SLATE SHINGLES WITH CHAMFERED NAIL HOLES FRONT-SIDE PUNCHED. LENGTH: EXPOSURE OF SLATE SHINGLE PLUS HEADLAP.
- 2.04 UNDERLAYMENT MATERIALS
- A. ROOFING FELT: WHERE POSSIBLE, EXISTING ROOF FELT SHOULD BE MAINTAINED. WHERE EXISTING ROOF FELT IS DEEMED UNSUITABLE BY THE ARCHITECT/ENGINEER, PROVIDE 30 POUND ROOFING FELT MEETING REQUIREMENTS OF ASTM D4896 TYPE III.
- B. SELF-ADHERED TRANSITION MEMBRANE: SELF-ADHERING MEMBRANE CONSISTING OF RUBBERIZED ASPHALT BONDED TO A SLIP RESISTANT CROSS LAMINATED POLYETHYLENE FACER. MINIMUM 55 MIL- THICK SHEET; RECOMMENDED IN WRITING BY MANUFACTURER FOR USE IN TILE ROOFING SYSTEM REQUIRED IN TEMPERATURES EXCEEDING 110 DEGREES FAHRENHEIT.
- PROVIDE MANUFACTURER'S RECOMMENDED PRIMER TO FACILITATE BOND. PROVIDE MANUFACTURER'S RECOMMENDED TERMINATION MASTIC/SEALANT
- 2.05 ACCESSORIES
- A. ASPHALT ROOFING CEMENT: ASTM D4586/D4586M TYPE II, ASBESTOS FREE. B. BUTYL SEALANT: ASTM C1311, SINGLE-COMPONENT, SOLVENT-RELEASE BUTYL RUBBER SEALANT; POLYISOBUTYLENE PLASTICIZED; HEAVY BODIED
- C. ELASTOMERIC SEALANT: ASTM C920, TYPE S, GRADE NS, ONE-PART, NON-SAG, ELASTOMERIC POLYMER SEALANT; OF CLASS AND USE CLASSIFICATIONS REQUIR TO SEAL JOINTS IN SLATE-SHINGLE ROOFING AND REMAIN WATERTIGHT; RECOMMENDED IN WRITING BY MANUFACTURER FOR APPLICATIONS INDICATED. D. SLATING NAILS : ASTM F1667, STAINLESS STEEL, SMOOTH-SHANKED, WIRE NAILS; 0.135 INCH MINIMUM THICKNESS; SHARP POINTED; WITH 3/8 INCH MINIMUM
- DIAMETER FLAT HEAD; OF SUFFICIENT LENGTH TO PENETRATE A MINIMUM OF 3/4 INCH INTO SHEATHING OR EXTEND AT LEAST 1/8 INCH THROUGH SHEATHING LES THAN 3/4 INCH THICK.
- WHERE NAILS ARE IN CONTACT WITH METAL FLASHING, USE NAILS MADE FROM SAME METAL AS FLASHING. E. UNDERLAYMENT NAILS: ALUMINUM, STAINLESS STEEL, OR HOT-DIP GALVANIZED-STEEL WIRE NAILS WITH LOW-PROFILE METAL OR PLASTIC CAPS, 1-INCH MINIMUM DIAMETER.
- 1. PROVIDE WITH MINIMUM 0.0134 INCH- THICK METAL CAP, 0.010 INCH- THICK POWER-DRIVEN METAL CAP, OR 0.035 INCH- THICK PLASTIC CAP; AND WITH MINIMUM 0.083 INCH- THICK RING SHANK OR 0.091 INCH- THICK SMOOTH SHANK OF LENGTH TO PENETRATE AT LEAST 3/4 INCH- INTO ROOF SHEATHING OR T PENETRATE THROUGH ROOF SHEATHING LESS THAN 3/4 INCH- THICK.
- F. NAILS FOR WOOD STRIPS: ASTM F1667; COMMON OR BOX, STEEL WIRE, FLAT HEAD, AND SMOOTH SHANK; HOT-DIP GALVANIZED. .01 SLATE REPAIR, GENERAL
- A. REMOVE DAMAGED, LOOSE, AND DISLODGED SLATE TILE. REMOVE SLATE TILES ADJACENT TO DAMAGED, LOOSE, AND DISLODGED TILES AS NECESSARY TO PERFORM THE WORK. B. SALVAGE WHOLE SLATE TILES FREE OF CRACKS AND DAMAGE FOR REINSTALLATION.
- C. EXAMINE SUBSTRATES, AREAS, AND CONDITIONS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK.
- D. EXAMINE EXISTING UNDERLAYMENT AND NOTIFY ARCHITECT/ENGINEER IF EXISTING UNDERLAYMENT IS CRACKED, TORN, OR DAMAGED. E. WHERE SLATE SHINGLES AND UNDERLAYMENT ARE REMOVED, EXAMINE EXISTING SLATE TILE WOOD SHEATHING SUBSTRATES TO VERIFY THAT EXISTING WOOD SHEATHING IS SUPPORTED BY FRAMING AND BLOCKING OR METAL CLIPS AND THAT INSTALLATION IS WITHIN FLATNESS TOLERANCES.
- F. WHERE EXISTING WOOD SHEATHING IS EXPOSED. CONTRACTOR TO NOTIFY ARCHITECT/ENGINEER IF EVIDENCE OF DETERIORATION IS OBSERVED. INCLUDE FIELD VERIFIED DIMENSIONS FOR SIZE OF DETERIORATED EXISTING WOOD SHEATHING SUBSTRATES, THICKNESS OF EXISTING WOOD SHEATHING SUBSTRATES, AND ANY OTHER PERTINENT EXISTING CONDITIONS. PROCEED WITH WORK AND REPLACEMENT OF DETERIORATED EXISTING WOOD SHEATHING SUBSTRATES BASED ON WRITTEN DIRECTION FROM THE ARCHITECT/ENGINEER.
- G. SEAL PENETRATIONS AND EXPOSED JOINTS IN SHEATHING WITH SEALANT PRIOR TO INSTALLATION OF UNDERLAYMENT MATERIALS. H. INSPECT EXISTING FELT UNDERLAYMENT BEHIND SLATE TILE CLADDING. REPLACE DAMAGED SECTIONS OF EXISTING FELT UNDERLAYMENT AND WOOD SHEATHING
- AS NECESSARY: SHINGLE EXISTING FELT UNDERLAYMENT AND NEW SELF-ADHERED TRANSITION MEMBRANE OVER METAL FLASHING ELEMENTS TO SHED WATER PROPERLY. I. SUPPLEMENT SALVAGED TILES WITH REPLACEMENT TILES AS NECESSARY. BLEND SALVAGED AND REPLACEMENT TILES TO LIMIT DISCRETE GROUPINGS OF
- REPLACEMENT TILES.
- J. INSTALL FIRST AND SUCCEEDING SHINGLE COURSES CHAMFERED FACE UP. INSTALL FULL-WIDTH FIRST COURSE AT RAKE EDGE. K. OFFSET JOINTS OF UNIFORM-WIDTH SLATE SHINGLES BY HALF THE SHINGLE WIDTH IN SUCCEEDING COURSES.
- L. OFFSET JOINTS OF RANDOM-WIDTH SLATE SHINGLES A MINIMUM OF 3 INCHES IN SUCCEEDING COURSES.

0 1" 2" 3" 4" 5" 6"

3"=1'-0"

- M. MAINTAIN A MINIMUM HEADLAP CONSISTENT WITH THE EXISTING HEADLAP IN THE FIELD OF SLATE TILES WHERE WORK IS BEING PERFORMED BETWEEN SUCCEEDING SHINGLE COURSES.
- N. MAINTAIN UNIFORM EXPOSURE OF SHINGLE COURSES WITHIN THE FIELD OF SLATE TILE CLADDING TO MATCH EXISTING.
- O. CUT AND FIT SLATE NEATLY AROUND ROOF VENTS, PIPES, VENTILATORS, AND OTHER PROJECTIONS THROUGH ROOF. P. HANG SLATE WITH TWO SLATING NAILS FOR EACH SHINGLE, WITH NAIL HEADS LIGHTLY TOUCHING SLATE. AT DISCRETE SLATE TILE REPLACEMENT AND AT STARTER
- COURSE, INSTALL SLATE TILE HOOKS TO PROVIDE DEADLOAD SUPPORT AT THE BASE OF THE TILE. INSTALL SLATE HOOKS PER THE MANUFACTURER'S INSTRUCTIONS, AND SEAL ANY PENETRATIONS WITH MASTIC OR SEALANT RECOMMENDED FOR ADHESION AND USE WITH APPLICABLE UNDERLAYMENT MATERIALS AT THE LOCATION OF THE HOOK INSTALLATION.

0 1" 2" 3

12"=1'-0"

6"=1'-0"

- GUTTERS WITH BUILT-IN EXPANSION JOINTS AND GUTTER-END EXPANSION JOINTS AT WALLS.
- E EXISTING GUTTER AND CORNICE, PROVIDE TEMPORARY WEATHER PROTECTION TO PREVENT MIGRATION OF MOISTURE INTO THE BUILDING. EXISTING ROOFING SLATE OR METAL ROOF ATTACHMENT AT EAVE OF THE ROOF TO FACILITATE THE WORK. SALVAGE EXISTING SLATE FOR DRECASTED WIND EVENTS, PROVIDE TEMPORARY MEASURES TO SECURE ROOF ELEMENTS THAT HAVE BEEN FREED TO PREVENT WIND DAMAGE DDING. DAMAGE TO METAL ROOFING CAUSED BY CONTRACTOR NEGLIGENCE SHALL BE REPAIRED AT NO COST TO THE OWNER. EXISTING GUTTER AND CORNICE HAS BEEN REMOVED. INSPECT THE CONDITIONS WITH THE INSTALLER AND ARCHITECT/ENGINEER PRESENT TO
- F EXISTING SUBSTRATES. NOTIFY ARCHITECT/ENGINEER IF CONDITIONS PREVENT INSTALLATION OF GUTTERS AS INDICATED IN THE DRAWINGS. ALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. THE EXISTING SUBSTRATE CONDITIONS IS LIMITED BASED ON THE DOCUMENTS PROVIDED FOR THE DEVELOPMENT OF THE DESIGN. CONTRACTOR
- (PLORATORY OPENINGS 6 FEET WIDE TO EXPOSE A REPRESENTATIVE EAVE CONDITION AT THE METAL ROOF AND SLATE ROOF FOR OBSERVATION T/ENGINEER PRIOR TO DEMOLITION TO ALLOW FOR VERIFICATION OF CONDITIONS AND ISSUANCE OF ADDITIONAL DIRECTION FOR GUTTER
- TO EXPLORATORY OPENINGS IN A TIMELY FASHION TO AFFORD A MINIMUM OF 14-BUSINESS DAYS FOR THE DEVELOPMENT OF ADDITIONAL
- ED HIGH TEMPERATURE UNDERLAYMENT AT LOCATIONS INDICATED IN THE DRAWINGS. 'URER'S RECOMMENDED PRIMER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO MEMBRANE
- NE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ECTIONS OF MEMBRANE AND METAL GUTTER MATERIAL NOT LESS THAN 4 INCHES.
- DGES AS REQUIRED BY THE MANUFACTURER WITH THE MANUFACTURER'S RECOMMENDED TERMINATION SEALANT.

- STALL SEALANT-TYPE JOINTS AT TEMPERATURES BELOW 40 DEG F (4 DEG C). ANTS IN ACCORDANCE WITH THE SEALANT MANUFACTURERS RECOMMENDATIONS FOR SURFACE PREPARATION AND MATERIAL INSTALLATION.
- S: SOLDER ALL NON-MOVEMENT JOINTS IN COPPER GUTTER ASSEMBLIES. FACES TO BE SOLDERED, REMOVING OILS AND FOREIGN MATTER.
- ES OF SHEETS WITH SOLDER TO WIDTH OF 1-1/2 INCHES (38 MM); HOWEVER, REDUCE PRETINNING WHERE PRETINNED SURFACE WOULD SHOW IN

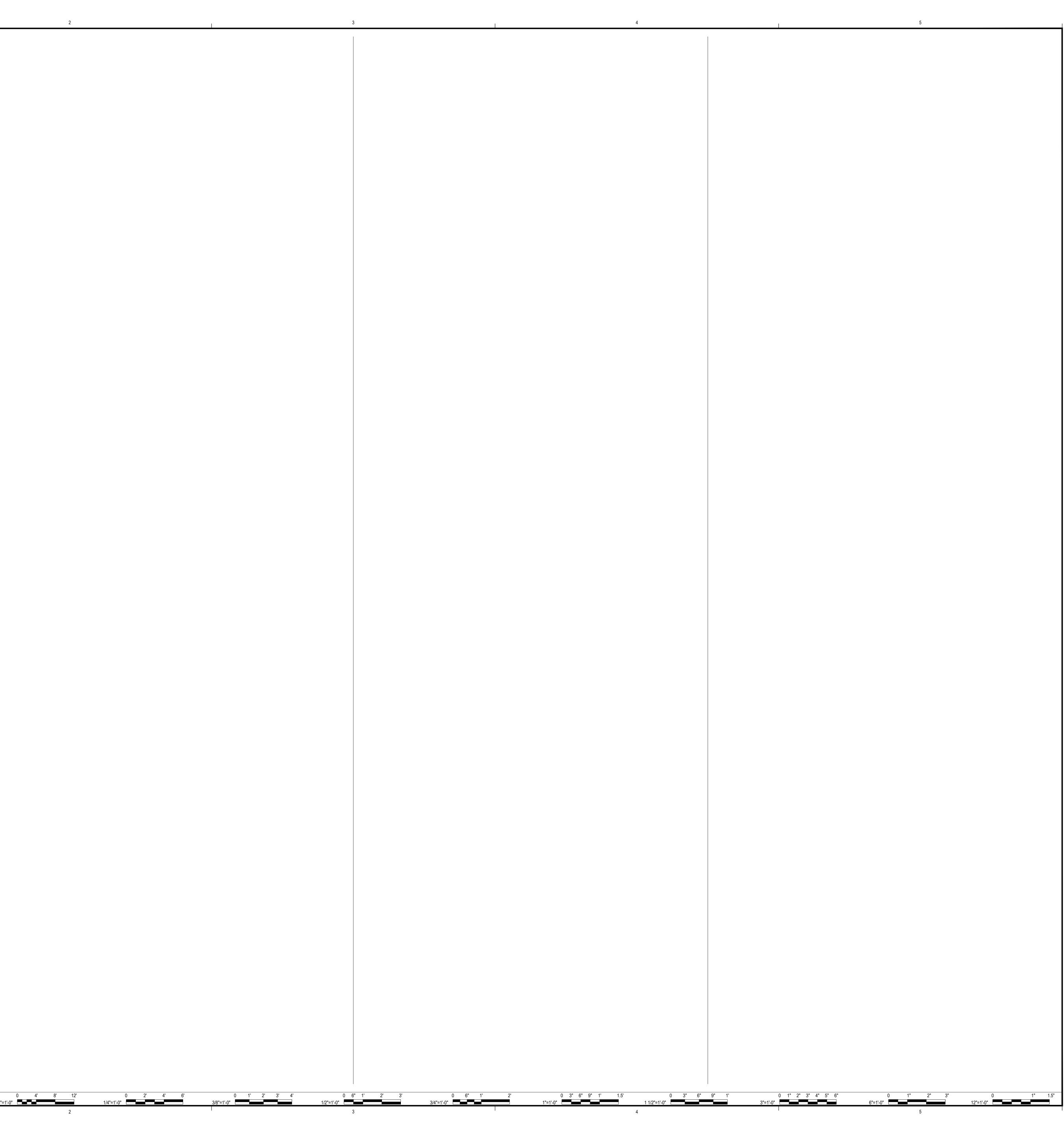
- S AT EAVE OR FASCIA TO FIRMLY ANCHOR THEM IN POSITION.
- OSELY LOCK BACK EDGE OF GUTTER TO CONTINUOUS CLEAT.

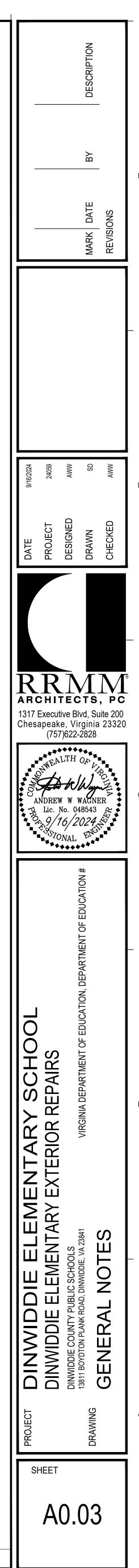
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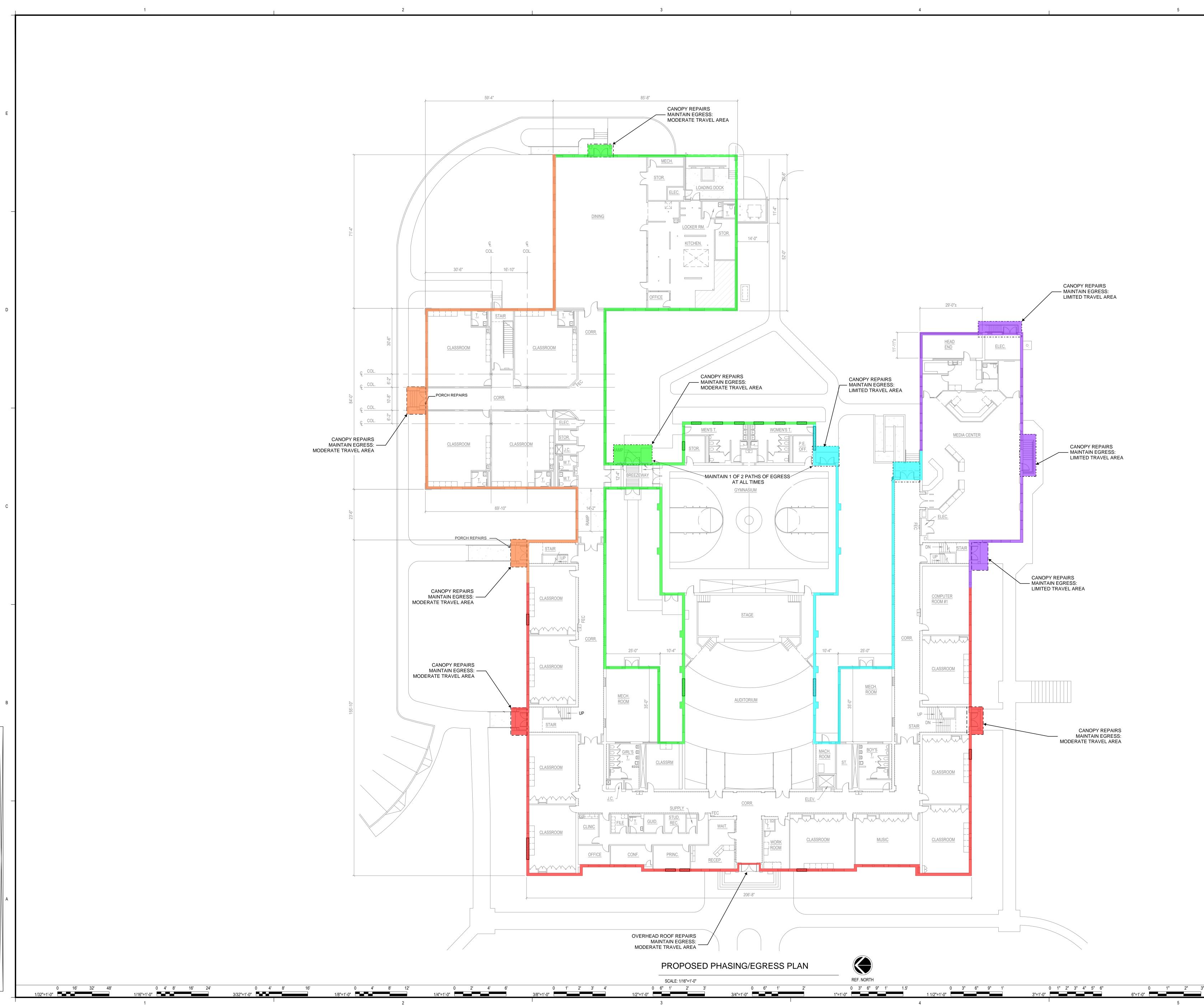
1 1/2"=1'-0"



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:: Au.US GENERAL NOTES PLOTTED: Friday, September zu, zuza - 5:34pm B		
C		
D		
Ε	 SHINGLE ABOVE. R. AT VENTED RIDGES, TERMINATE SLATE SHINGLES TO PRODUCE A UNIFORM AIRSPACE ON EACH SIDE OF RIDGE APEX. 3.02 INSTALLATION OF UNDERLAYMENT MATERIALS A. COMPLY WITH SLATE-SHINGLE AND UNDERLAYMENT MANUFACTURERS' WRITTEN INSTALLATION INSTRUCTIONS AND WITH RECOMMENDATIONS IN NRCA'S 'THE NRCA ROOFING MANUAL: STEEP-SLOPE ROOF SYSTEMS' APPLICABLE TO PRODUCTS AND APPLICATIONS INDICATED UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED IN THIS SECTION OR INDICATED ON DRAWINOS. B. NEW FELT UNDERLAYMENT: WHERE EXISTING FELT UNDERLAYMENT IS DEEMED UNSUITABLE, INSTALL ON EXISTING WOOD SHEATHING STARTING AT THE BASE OF THE WALL AND FASTEN WITH UNDERLAYMENT NAILS. C. SINGLE-LAYER INSTALLATION: D. LAP SIDES A MINIMUM OF 4 INCHES OVER UNDERLYING COURSE. E. LAP ENDS A MINIMUM OF 4 INCHES. F. WHERE FEASIBLE, STAGGER END LAPS BETWEEN SUCCEEDING COURSES AT LEAST 72 INCHES. G. SELF-ADHERED TRANSITION MEMBRANE: INSTALL, WRINKLE FREE. TO SEAL OVER LAP INTEGRATIONS BETWEEN ROOFING FELT AND EXISTING METAL ROOF FLASHINGS. H. COMPLY WITH LOW-TEMPERATURE INSTALL, WRINKLE FREE. TO SEAL OVER LAP INTEGRATIONS BETWEEN ROOFING FELT AND EXISTING METAL ROOF FLASHINGS. H. COMPLY WITH LOW-TEMPERATURE INSTALL, WRINKLE FREE. TO SEAL OVER LAP INTEGRATIONS MEMBRANE MANUFACTURER. I. PRIME SURFACES AS REQUIRED BY SELF-ADHERED TRANSITION MEMBRANE MANUFACTURER. J. INSTALL LAPPED IN DIRECTION THAT SHEDS WATER. LAP SIDES NOT LESS THAN 4 INCHES OR AS RECOMMENDED BY THE SELF-ADHERED TRANSITION MEMBRANE MANUFACTURER. J. INSTALL LAPPED IN DIRECTION THAT SHEDS WATER. LAP SIDES NOT LESS THAN 4 INCHES OR AS RECOMMENDED BY THE SELF-ADHERED TRANSITION MEMBRANE MANUFACTURER. J. INSTALL LAPPED IN DIRECTION THAT SHEDS WATER. LAP SIDES NOT LESS THAN 4 INCHES OR AS RECOMMENDED BY THE SELF-ADHERED TRANSITION MEMBRANE MANUFACTURER. K. LAP ENDS NOT LESS THAN 4 INCHES, STAGGERED 24 INCHES BETWEEN SUCCEEDING COURS	

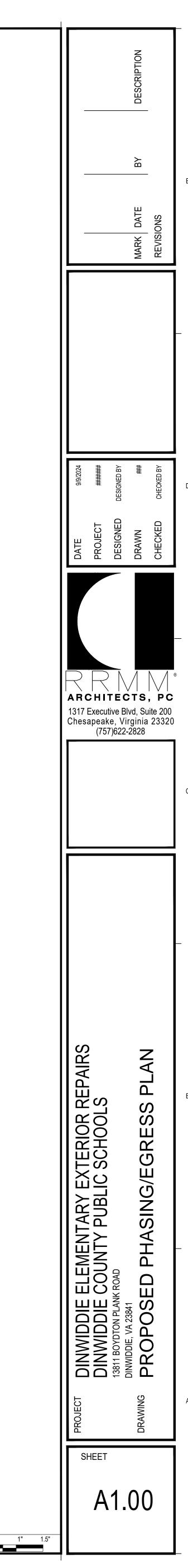






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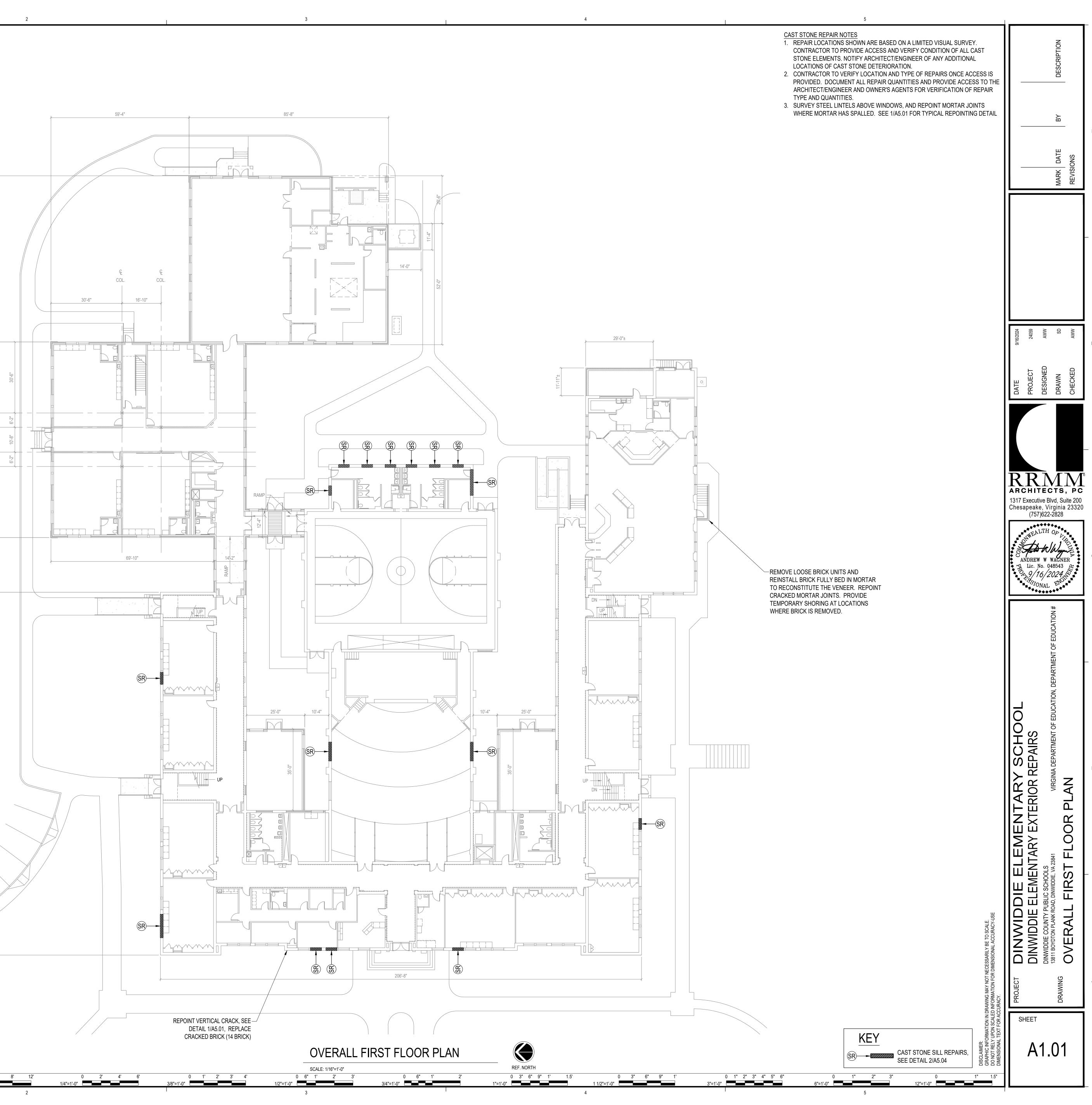
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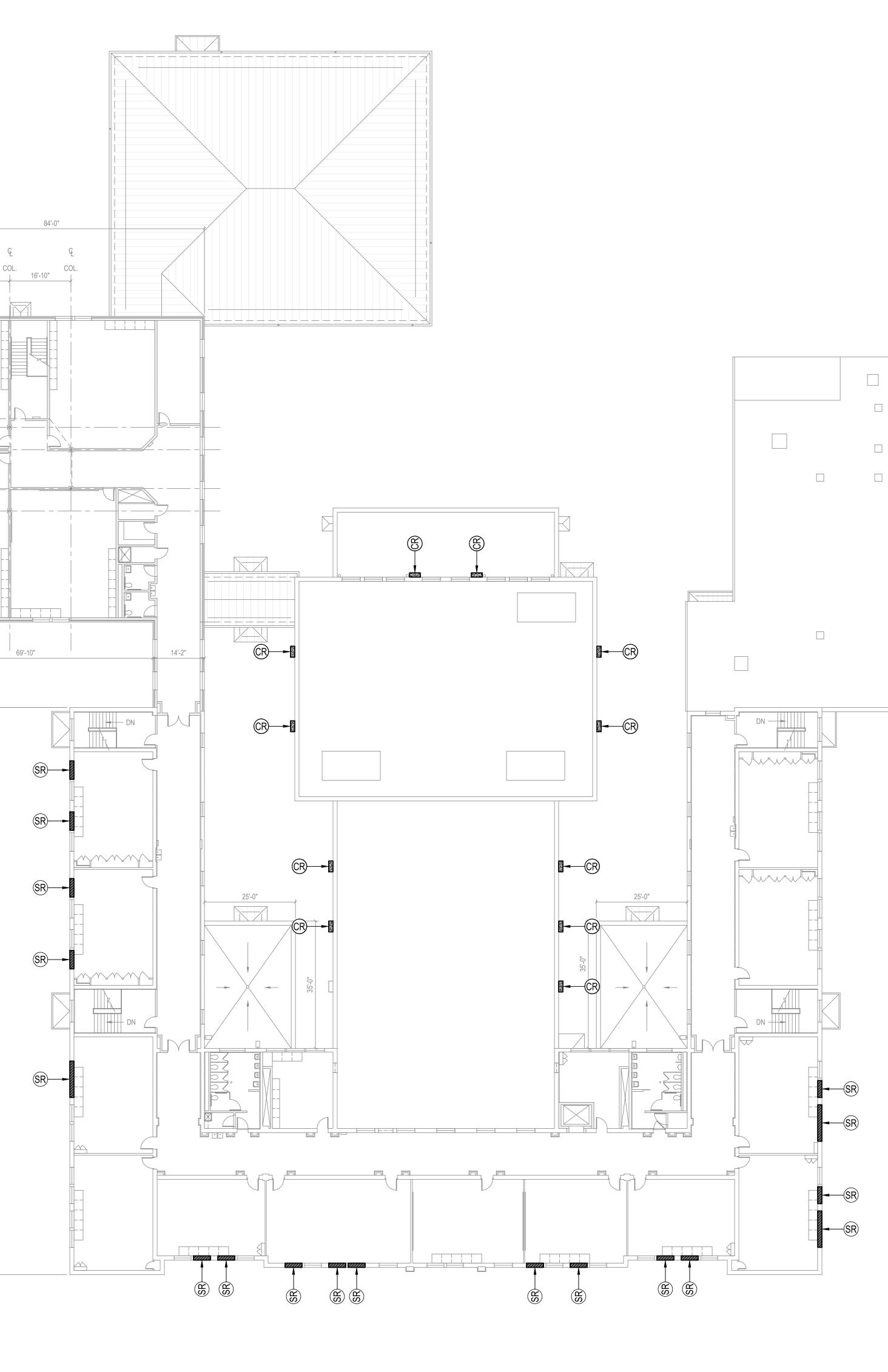
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FILE NAME: Z:\Shared\char data\2024\24059 - dinwiddie elementary\100 autocad\D\VG\2024-09-19 dwg\A1.01.dwg LAYOUT NAME: Overall first floor plan PLOTTED: Friday, September 20, 2024 - 5:34pm			



			<u>, 30'-6"</u>
	بل 10" 10"	2 COL. COL. COL. COL. 	
	23 ¹ .6 ⁿ (±)		
	155'-10"		



OVERALL SECOND FLOOR PLAN SCALE: 1/16"=1'-0"

0 6" 1' 2' 3' 1/2"=1'-0"

0 1' 2' 3' 4' 3/8"=1'-0"

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

REF. NORTH

0 6" 1' 3/4"=1'-0"

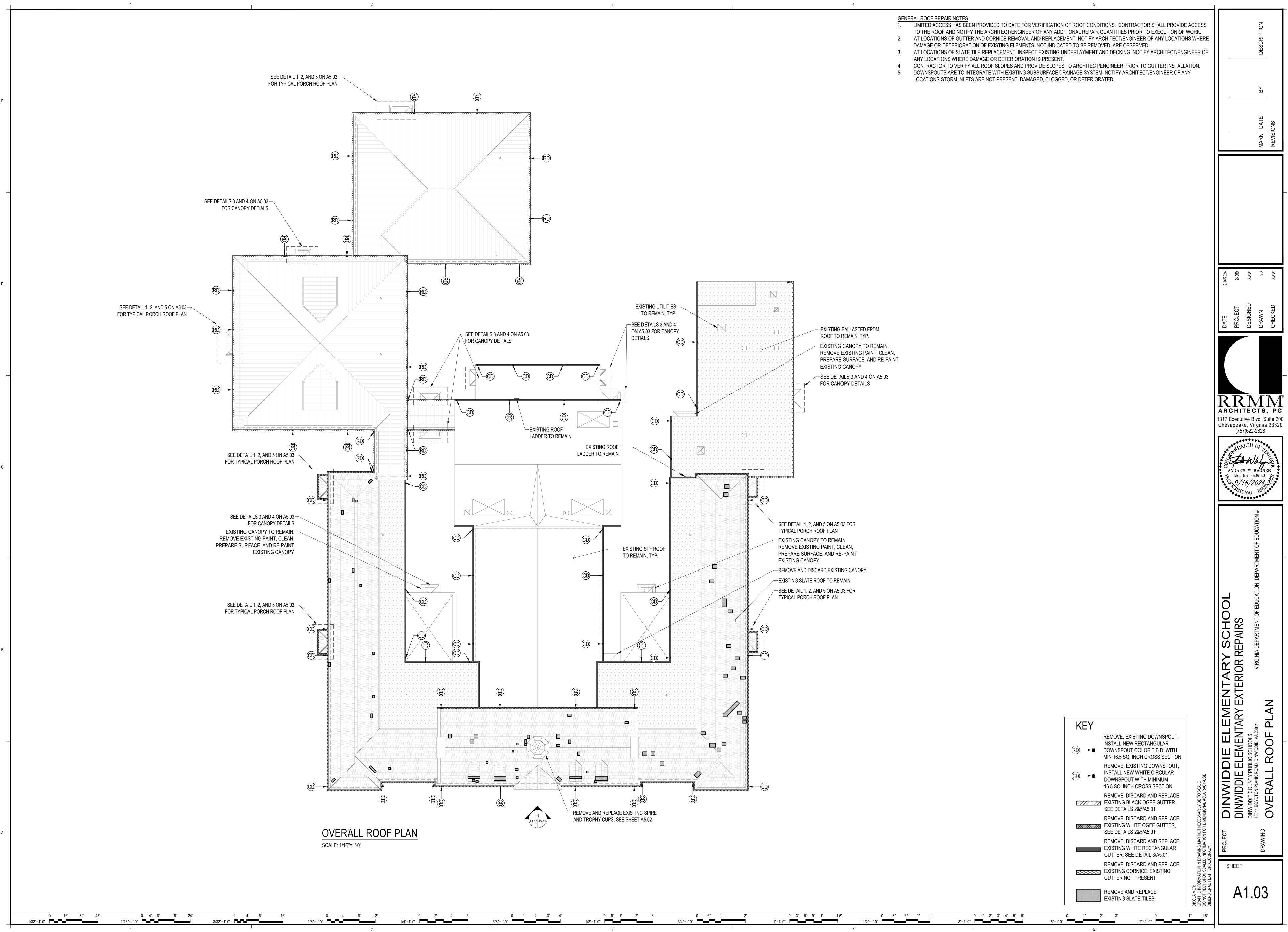
CAST STONE REPAIR NOTES

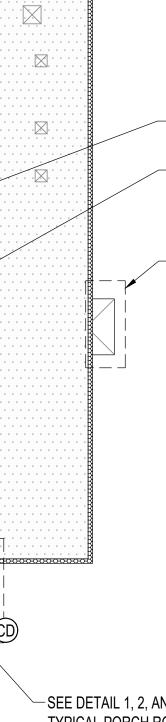
- 1. REPAIR LOCATIONS SHOWN ARE BASED ON A LIMITED VISUAL SURVEY. CONTRACTOR TO PROVIDE ACCESS AND VERIFY CONDITION OF ALL CAST STONE ELEMENTS. NOTIFY ARCHITECT/ENGINEER OF ANY ADDITIONAL LOCATIONS OF CAST STONE DETERIORATION.
- 2. CONTRACTOR TO VERIFY LOCATION AND TYPE OF REPAIRS ONCE ACCESS IS PROVIDED. DOCUMENT ALL REPAIR QUANTITIES AND PROVIDE ACCESS TO THE ARCHITECT/ENGINEER AND OWNER'S AGENTS FOR VERIFICATION OF REPAIR TYPE AND QUANTITIES.
- 3. SURVEY STEEL LINTELS ABOVE WINDOWS, AND REPOINT MORTAR JOINTS WHERE MORTAR HAS SPALLED. SEE 1/A5.01 FOR TYPICAL REPOINTING DETAIL.

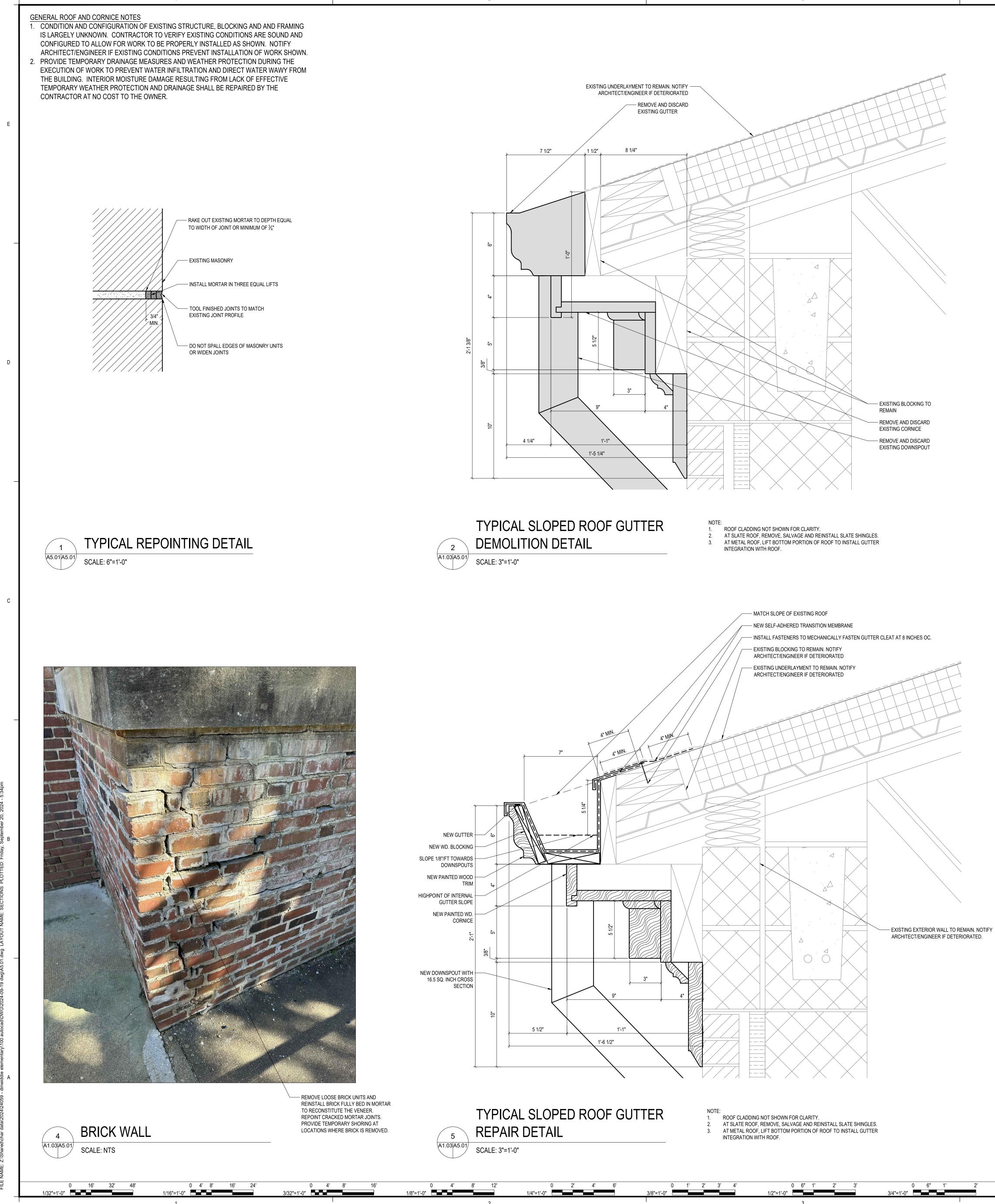
			KEY
			CR CAST STONE PILA CAP REPAIRS, SEI
			SR CAST STONE SILL SEE DETAIL 2/A5.0
0 3" 6" 9" 1' 1.5' 1"=1'-0"	0 3" 6" 9" 1' 1 1/2"=1'-0"	0 1" 2" 3" 4" 5" 6" 3"=1'-0"	0 1" 2" 3" 0 6"=1'-0" 12"=1'-0"
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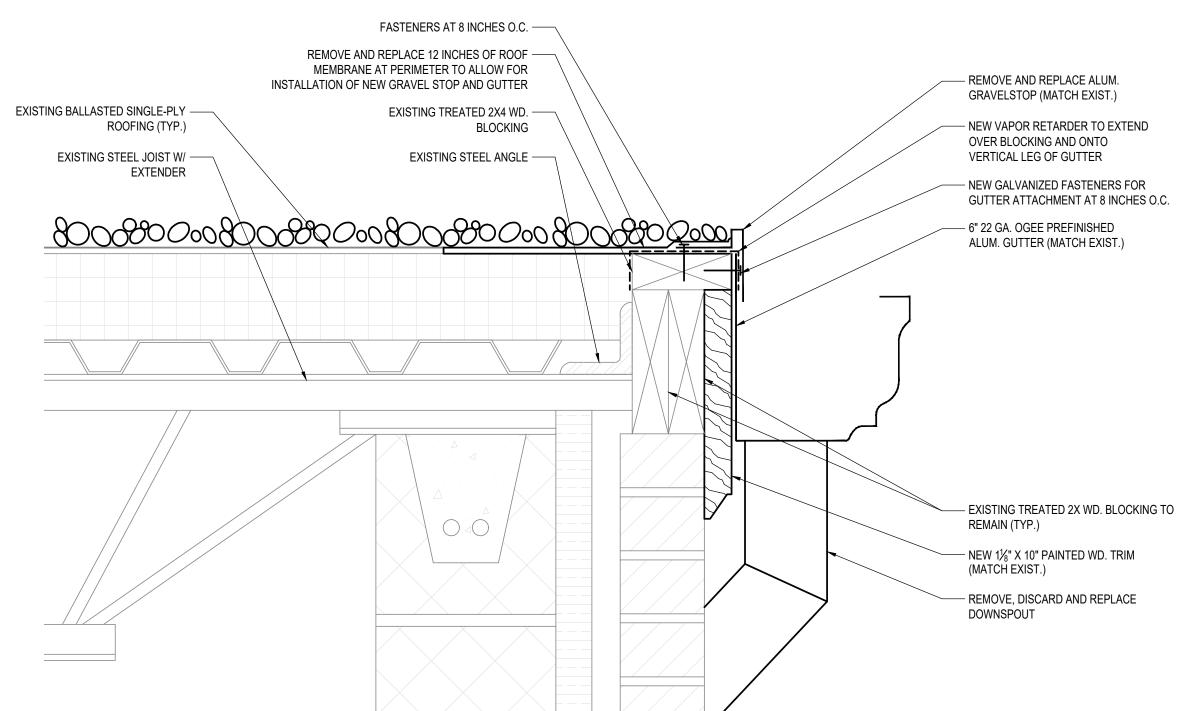




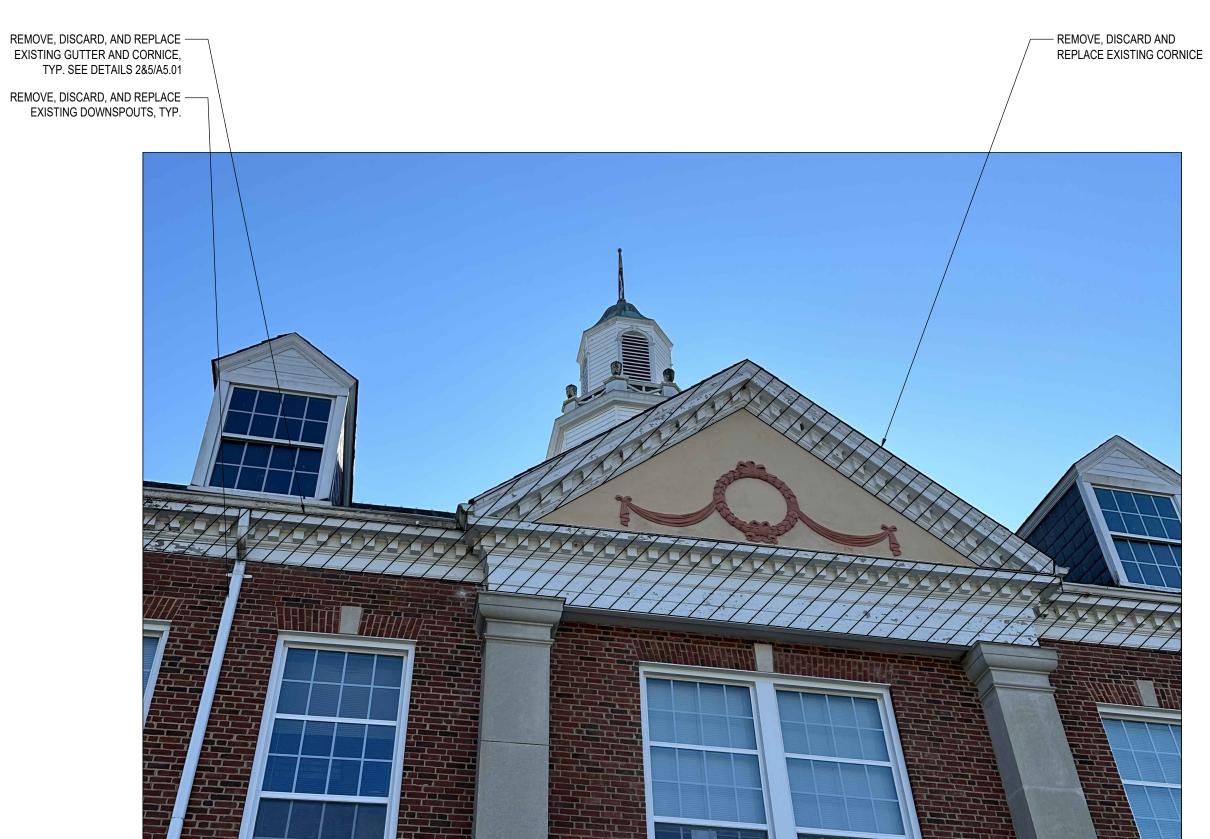




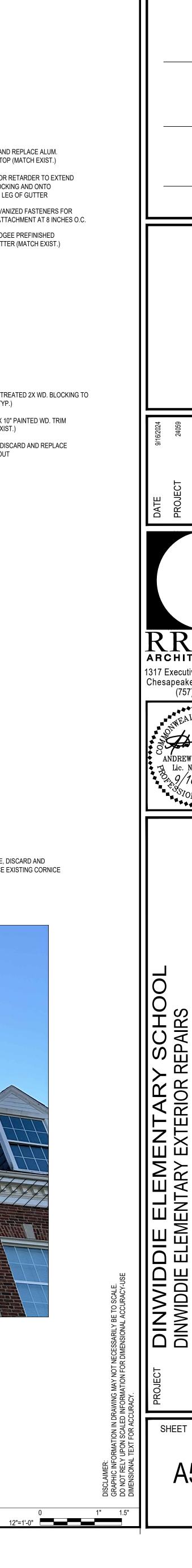
8'	12'	0 2' 4' 6'	0 1' 2' 3' 4'	0 6" 1' 2' 3'	0 6" 1' 2'
		1/4"=1'-0"	3/8"=1'-0"	1/2"=1'-0"	3/4"=1'-0"
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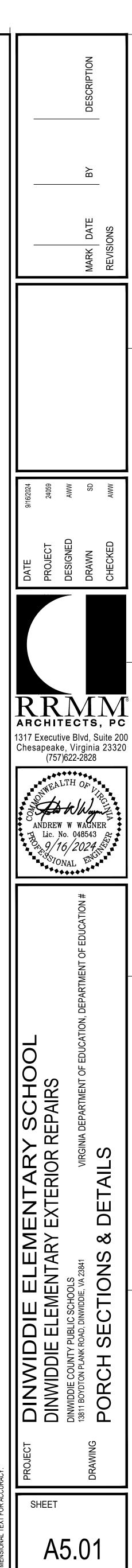














- GENERAL CUPOLA NOTES 1. PRIOR TO REMOVAL OF SPIRE AND DECORATIVE TROPHY CUPS, DOCUMENT PROFILES AND DIMENSIONS OF EXISTING
- CONDITIONS FOR FABRICATION OF REPLACEMENT ELEMENTS TO MATCH EXISTING. 2. REMOVE EXISTING SPIRE AND DECORATIVE TROPHY CUPS AND RETAIN FOR APPROVAL OF REPLACEMENT ELEMENTS.
- 3. CONTRACTOR TO VERIFY EXISTING SUBSTRATES ARE SOUND. PROVIDE ARCHITECT AND ENGINEER ACCESS TO
- INSPECT CONDITIONS AND PROVIDE RECOMMENDATIONS FOR ATTACHMENT OF NEW ELEMENTS.



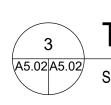


SPIRE REPAIR DETAIL SCALE: NO SCALE



REMOVE, DISCARD, AND REPLACE EXISTING TROPHY CUPS, TYP.

-EXISTING RAILING TO BE CLEANED, SURFACE PREPARED, AND RE-PAINTED. NOTIFY ARCHITECT/ENGINEER IF RAILING ELEMENTS HAVE DETERIORATED



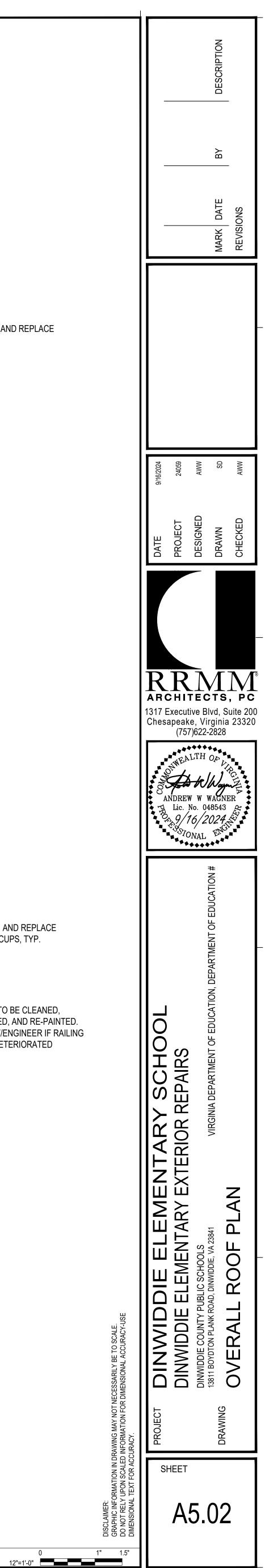
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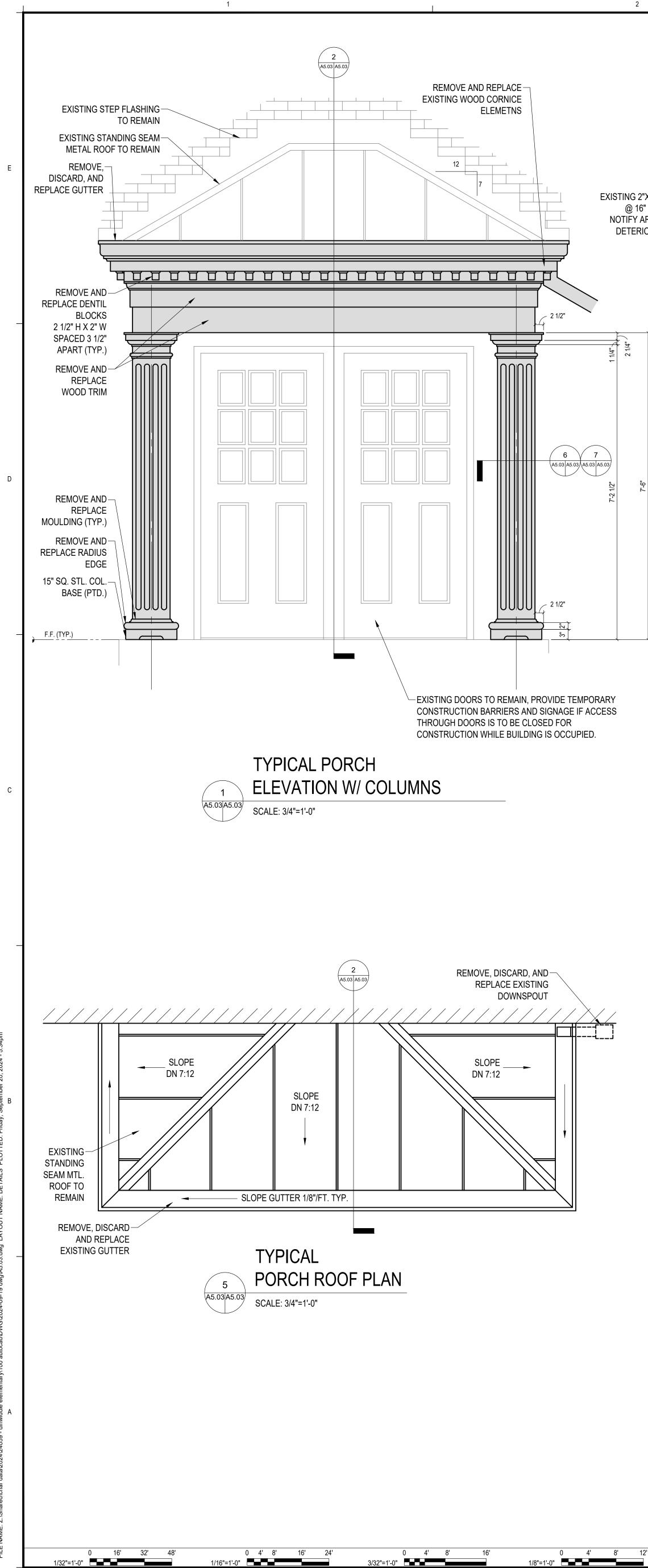
TYPICAL TROPHY CUP DETAIL SCALE: NO SCALE

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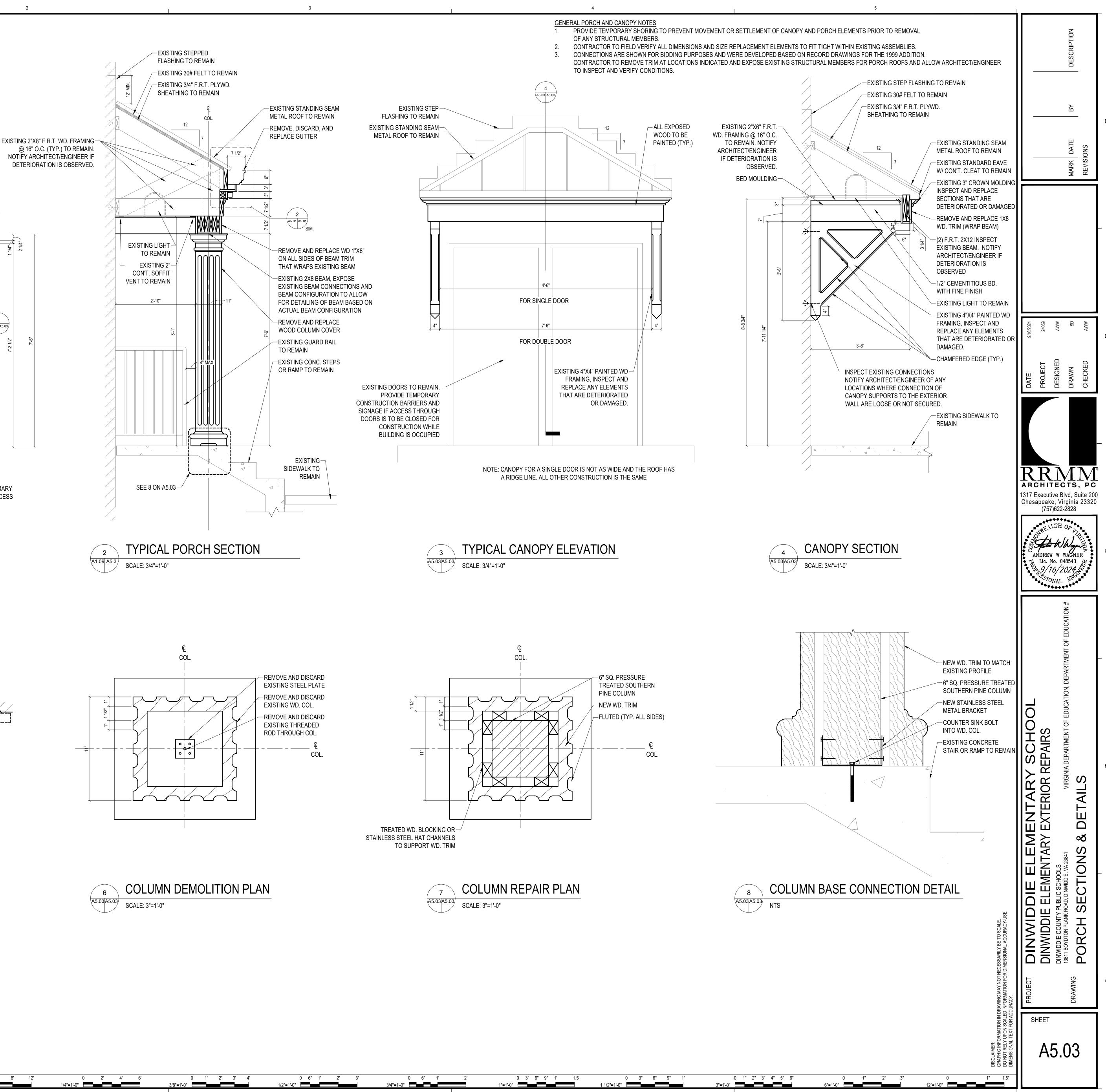
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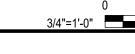
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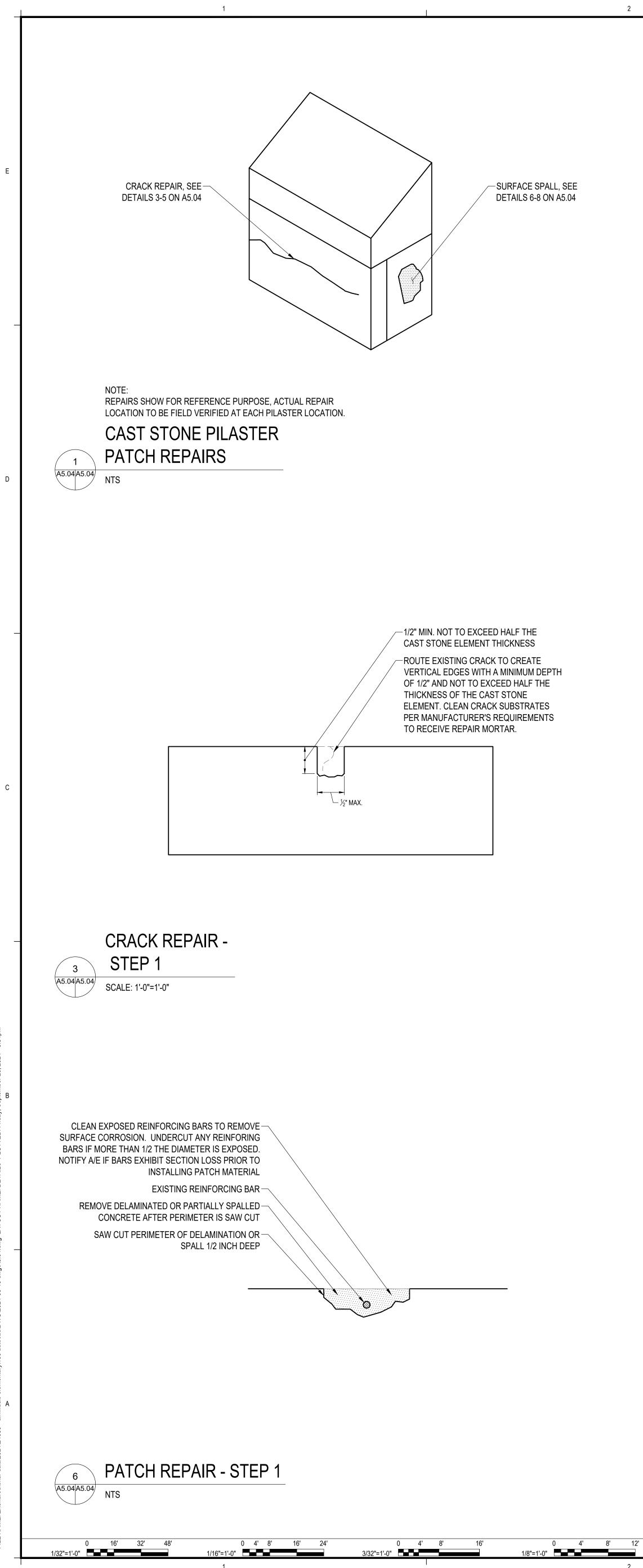


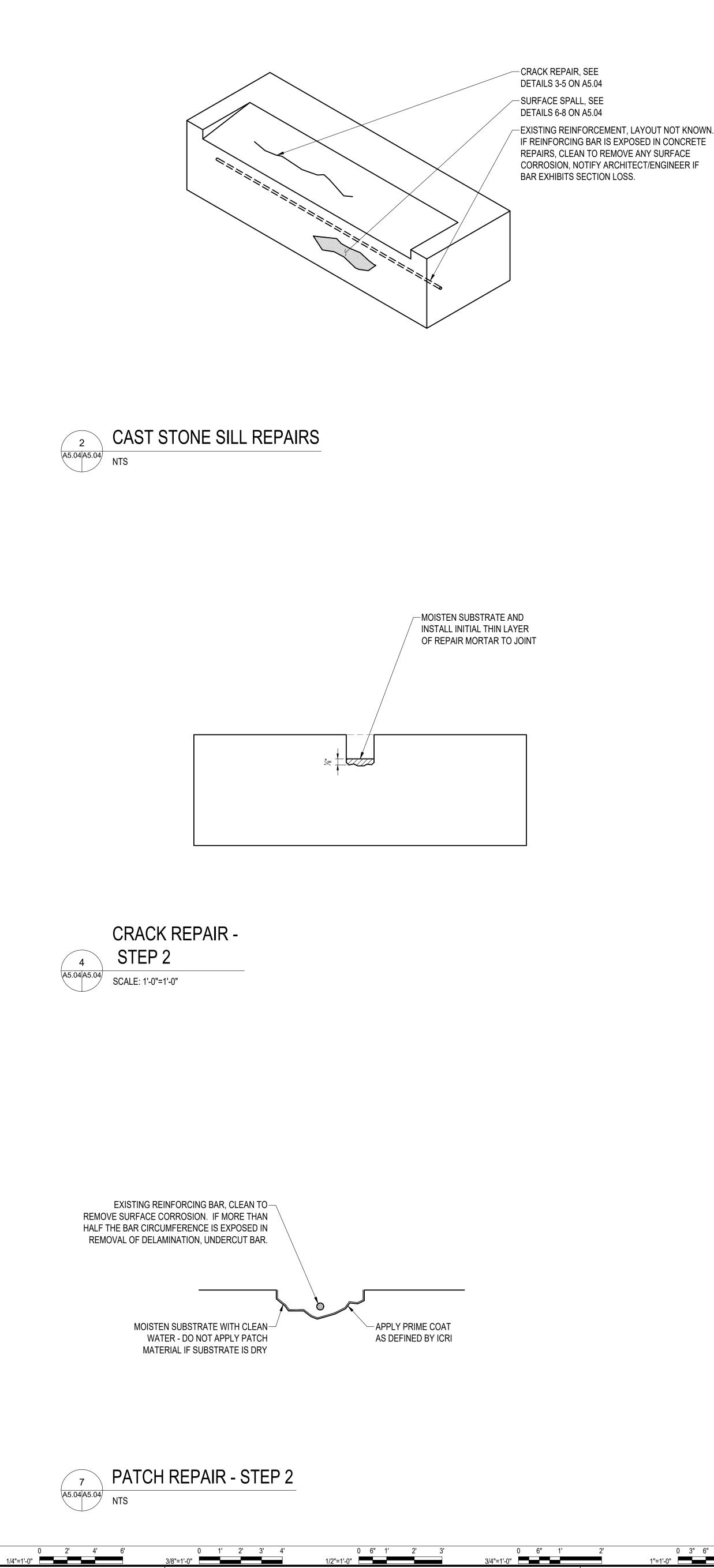




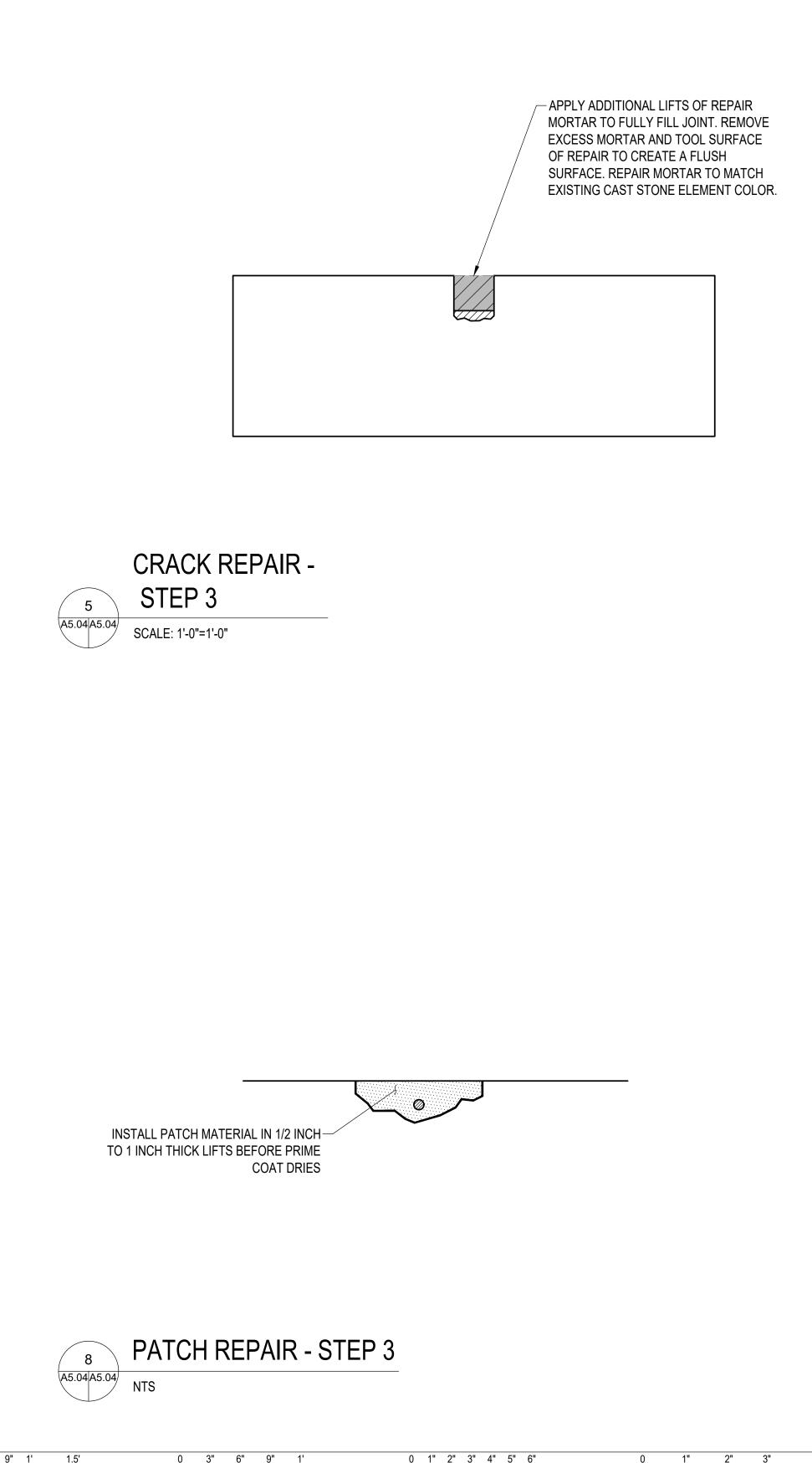






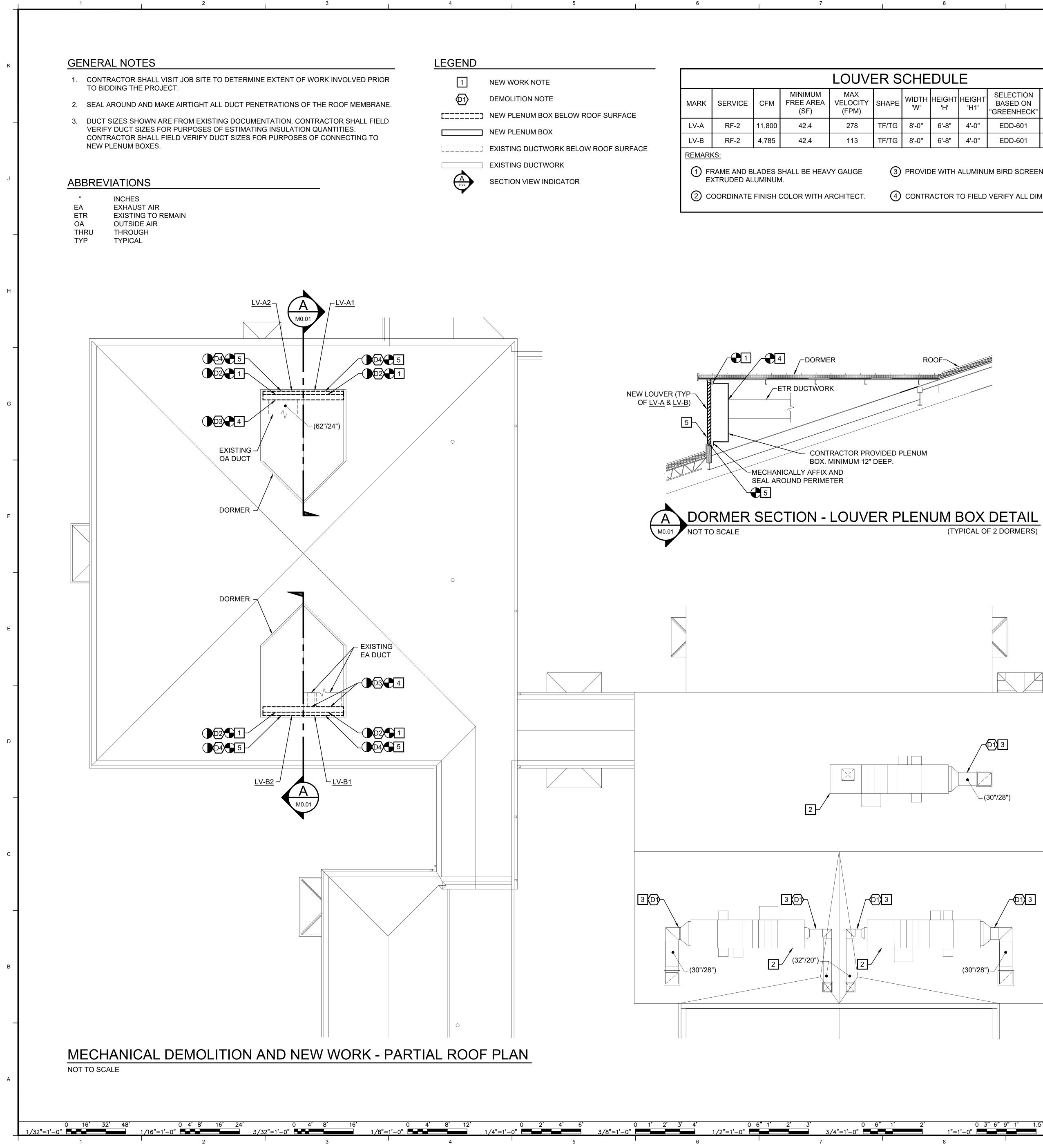


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0 3" 6" 9" 1' 1.5' 1"=1'-0" 0 1" 2" 3" 4" 5" 6" 0 3" 6" 9" 1' 1 1/2"=1'-0" 6"=1'-0" 5





GEND	
1	NEW WORK NOTE
	DEMOLITION NOTE
3	NEW PLENUM BOX BELOW ROOF SURFA
	NEW PLENUM BOX
	EXISTING DUCTWORK BELOW ROOF SUI
	EXISTING DUCTWORK

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	LOUVER SCHEDULE									
MARK	SERVICE	CFM	MINIMUM FREE AREA (SF)	MAX VELOCITY (FPM)	SHAPE	WIDTH 'W'	HEIGHT 'H'	HEIGHT 'H1'	SELECTION BASED ON "GREENHECK"	REMARKS
LV-A	RF-2	11,800	42.4	278	TF/TG	8'-0"	6'-8"	4'-0"	EDD-601	1234
LV-B	RF-2	4,785	42.4	113	TF/TG	8'-0"	6'-8"	4'-0"	EDD-601	1234
REMAR	REMARKS:									
1 FRAME AND BLADES SHALL BE HEAVY GAUGE EXTRUDED ALUMINUM.					3 PROVIDE WITH ALUMINUM BIRD SCREEN.					
2 COORDINATE FINISH COLOR WITH ARCHITECT.						CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.				

8' 12'	0 2' 4' 6'	0 1' 2' 3' 4'	0 6" 1' 2'	3' 0 6" 1'	' 2'	0 3" 6" 9" 1' 1.5' 0 3" 6" 9	" 1' 0 1" 2" 3" 4" 5" 6"	0 1" 2" 3"
	1/4"=1'-0"	3/8"=1'-0"	1/2"=1'-0"	3/4"=1'-0"	1"=1'-(0"	3"=1'-0"	6"=1'-0" 1 2"=1'-0
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SPECIFICATIONS

DUCTWORK AND PLENUM BOXES

- All PLENUM BOXES SHALL BE CONSTRUCTED OF SHEET METAL TO COVER THE ENTIRE FREE AREA OF EACH LOUVER.
- SHEET-METAL PLENUM BOXES SHALL BE FABRICATED FROM SHEET ALUMINUM AND SHALL BE OF GAUGES CALLED FOR AND AS DETAILED IN 2020 SMACNA MANUAL, HVAC DUCT CONSTRUCTION STANDARDS (METAL AND FLEXIBLE).
- DUCT SEALING REQUIREMENTS SHALL BE CLASS A FOR ALL DUCTWORK AND PLENUM BOXES INDICATED TO BE FABRICATED, RESEALED, AND/OR CONNECTED TO NEW WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING AND INSULATION OF THE DUCTWORK CONNECTION TO NEW PLENUM BOXES.

DUCT INSULATION

- 2. BOARD TYPE IN UNCONDITIONED SPACE OR OUTSIDE BUILDING: GLASS FIBER, 3.0-LBS./CU. FT., FOIL FACED, VAPOR-SEALED BOARD INSULATION. THERMAL CONDUCTIVITY SHALL NOT EXCEED 0.23 BTU*IN/HR*SQFT*ºF.
- WHERE INSULATION OF EXISTING OUTDOOR DUCTWORK IS INDICATED, INSULATION SHALL BE 3" THICKNESS RIGID BOARD INSULATION.
- 4. WHERE INSULATION OF EXISTING OUTDOOR DUCTWORK IS INDICATED, INSULATION SHALL BE APPLIED FROM AIR HANDLING UNIT CONNECTION TO ROOF PENETRATION. SEAL INSULATION TO UNIT AND ROOF PENETRATION CURB.
- 5. NEW PLENUM BOXES SHALL BE FULLY INSULATED.

SELF-ADHESIVE, FIELD-APPLIED, OUTDOOR JACKETS

- 1. PROVIDE SELF-ADHESIVE OUTDOOR JACKET BY POLYGUARD PRODUCTS INC., 3M, MFM BUILDING PRODUCTS CORP., OR APPROVED EQUAL.
- OUTDOOR JACKET SHALL CONSIST OF A LAMINATED VAPOR BARRIER AND WATERPROOFING MEMBRANE WITH PERM RATING 0.00 PERM, WHEN TESTED ACCORDING TO ASTM 96/E 96M, FOR INSTALLATION OVER FOAM BOARD INSULATION LOCATED ABOVE GROUND OUTDOORS. SYSTEM SHALL CONSIST OF A FOIL POLYMER LAMINATED FILM WITH A COATING OF RUBBERIZED BITUMINOUS COMPOUND OR ACRYLIC ADHESIVE THAT ALLOWS MEMBRANE TO SELF-ADHERE TO THE SUBSTRATE.
- COMPOSITE MEMBRANE SHALL CONSIST OF A MULTI-PLY EMBOSSED UV RESISTANT ALUMINUM FOIL/POLYMER LAMINATE TO WHICH IS APPLIED A LAYER OF RUBBERIZED ASPHALT AND SHALL HAVE THE FOLLOWING CHARACTERISTICS:
- A. MEMBRANE THICKNESS: 59 MILS
- SOLAR REFLECTANCE, CRRC INITIAL RATING: 0.86
- SOLAR REFLECTANCE, CRRC 3-YEAR RATING: 0.77
- THERMAL EMITTANCE, CRRC INITIAL RATING: 0.82
- THERMAL EMITTANCE, CRRC 3-YEAR RATING: 0.86

NOTE: EXISTING CONDITIONS ILLUSTRATED HAVE BEEN DETERMINED FROM ORIGINAL CONSTRUCTION DOCUMENTS AND LIMITED NON-INVASIVE FIELD INVESTIGATION. THE CONTRACTOR SHALL INVESTIGATE FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK, COORDINATE AND MAKE ADJUSTMENTS AS NECESSARY

DEMOLITION NOTES						
NO.	DESCRIPTION					
D1	DEMOLISH EXISTING EXTERIOR INSULATION COMPLETE.					
D2	DEMOLISH EXISTING MATERIAL COVERING INTERIOR OF LOUVER FREE AREA.					
D3	DISCONNECT DUCTWORK FROM EXISTING PLENUM BOX. DEMOLISH EXISTING PLENUM BOX.					
D4	DEMOLISH EXISTING LOUVER COMPLETE.					

	NEW WORK NOTES
NO.	DESCRIPTION
1	FABRICATE AND ATTACH GALVANIZED SHEET METAL PLENUM BOX TO THE PERIMETER OF NEW LOUVER. MAKE WEATHER-TIGHT, MECHANICALLY AFFIX TO THE INTERIOR, AND SEAL. SEE DETAIL ON THIS SHEET.
2	MAKE ALL AIR HANDLING UNIT ACCESS DOORS WEATHER-TIGHT. REPLACE DOOR SEALS AND ADJUST OR REPLACE DOOR HANGING HARDWARE AS NECESSARY TO FULLY SEAL.
3	CLEAN SURFACE AND APPLY DUCT SEALANT TO ALL SEAMS AND JOINTS OF EXISTING DUCTWORK INDICATED. INSULATE EXTERIOR DUCTWORK WITH 3" RIGID BOARD INSULATION. PROVIDE AND INSTALL SELF-ADHESIVE, FIELD-APPLIED, OUTDOOR DUCT JACKET.
4	CONNECT EXISTING DUCTWORK TO NEW PLENUM BOX.
5	INSTALL NEW LOUVER IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS. PROVIDE WITH MANUFACTURER SILL PAN AND BIRD SCREEN.

