

**PROJECT MANUAL
FOR
CITY OF LYNCHBURG**

May 21, 2013

**Roof Replacement and Exterior Repairs for
Task 3: Fire Station No. 3**

4701 Fort Avenue Lynchburg, Va. 24504

Lynchburg City Building Number FE403



**PROCUREMENT DIVISION
3RD FLOOR CITY HALL
900 CHURCH STREET
LYNCHBURG, VA 24504
TELEPHONE (434) 455-3961
FAX (434) 845-0711**

SECTION 00-0110

TABLE OF CONTENTS

PROCUREMENT AND CONTRACTING REQUIREMENTS

Division 00 -- Procurement and Contracting Requirements

00-0110 - Table of Contents

SPECIFICATIONS

Division 01 -- General Requirements

01-1000 - Summary

01-3000 - Administrative Requirements

01-4000 - Quality Requirements

01-5000 - Temporary Facilities and Controls

01-7000 - Execution and Closeout Requirements

Division 07 -- Thermal and Moisture Protection

07-0150.19 - Preparation for Re-Roofing

07-3113 - Asphalt Shingles

07-9005 - Joint Sealers

Division 09 -- Finishes

09-9000 - Painting and Coating

END OF TABLE OF CONTENTS

SECTION 01-1000

SUMMARY

PART 1 GENERAL

1.01 PROJECT

- A. Project Name: Roof Replacement & Exterior Repairs for Task 3: Fire Station No. 3.
- B. Owner Building Designations: FE403.
- C. Owner's Name: City of Lynchburg.
 - 1. Owner's Project Representative: Scott Glass, AIA
- D. Architect's Name: Craddock Cunningham Architectural Partners.
 - 1. Project Architect: Mark W. Smith
- E. The project consists of removal and replacement of asphalt shingles and associated metal flashing and gutters and downspouts. Miscellaneous exterior painting of soffit and fascia and rake boards.
- F. Roof Area is approximately 6000 square feet.

1.02 CONTRACT DESCRIPTION

- A. Contract Type: A single prime contract based on a Stipulated Price as described in agreement.

1.03 CONTRACTOR USE OF SITE

- A. Construction Operations: Limited to the adjacent parking area and yard as mutually agreed upon by contractor and owner.
- B. Provide access to and from site as required by law and by Owner:
 - 1. Do not obstruct roadways, sidewalks, or other public ways without permit.

1.04 WORK SEQUENCE

- A. Coordinate construction schedule and operations with Owner.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01-3000

ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Preconstruction meeting.
- B. Submittals for review, information, and project closeout.

1.02 PROJECT COORDINATION

- A. Project Coordinator: Scott Glass.
- B. During construction, coordinate use of site and facilities through the Project Coordinator.
- C. Comply with instructions of the Project Coordinator for use of temporary utilities and construction facilities.
- D. Make the following types of submittals to Architect through the Project Coordinator:
- E. The project coordinator may allow the general contractor to submit the following directly to the architect. This will be determined at the pre-construction meeting:
 - 1. Requests for interpretation.
 - 2. Requests for substitution.
 - 3. Shop drawings, product data, and samples.
 - 4. Applications for payment and change order requests.
 - 5. Closeout submittals.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRECONSTRUCTION MEETING

- A. Architect will schedule a meeting after Notice of Award.
- B. Attendance Required:
 - 1. Owner.
 - 2. Architect.
 - 3. Contractor.
- C. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.

3.02 SUBMITTALS FOR REVIEW

- A. When the following are specified in individual sections, submit them for review:
 - 1. Product data.
 - 2. Samples for selection.
- B. Samples will be reviewed only for aesthetic, color, or finish selection.

END OF SECTION

SECTION 01-4000

QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Control of installation.

1.02 RELATED REQUIREMENTS

- A. Section 01-3000 - Administrative Requirements: Submittal procedures.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with manufacturers' instructions, including each step in sequence.
- C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
- D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Have Work performed by persons qualified to produce required and specified quality.

3.02 DEFECT ASSESSMENT

- A. Replace Work or portions of the Work not conforming to specified requirements.
- B. If, in the opinion of Architect, it is not practical to remove and replace the Work, Architect will direct an appropriate remedy or adjust payment.

END OF SECTION

SECTION 01-5000

TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Temporary utilities.
- B. Temporary Controls: Barriers, enclosures, and fencing.
- C. Vehicular access and parking.
- D. Waste removal facilities and services.

1.02 TEMPORARY UTILITIES

- A. Owner will provide the following:
 - 1. Electrical power, consisting of connection to existing facilities.
 - 2. Water supply, consisting of connection to existing facilities.
 - 3. Contractor is required to provide all components and make all connections to facilities and to restore temporary connections once project is complete. Remove panels, conduit, piping and patch finishes as required to return facility to previous appearance.
- B. Use trigger-operated nozzles for water hoses, to avoid waste of water.

1.03 BARRIERS

- A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public and to protect existing facilities and adjacent properties from damage from construction operations.
 - 1. Polyethylene 4 feet high orange barricade fence.

1.04 VEHICULAR ACCESS AND PARKING

- A. Existing parking areas located at project site may be used for construction parking.

1.05 WASTE REMOVAL

- A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01-7000

EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Examination, preparation, and general installation procedures.
- B. Cutting and patching.
- C. Cleaning and protection.

1.02 COORDINATION

- A. Coordinate completion and clean-up of work of separate sections.
- B. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

PART 2 PRODUCTS

2.01 PATCHING MATERIALS

- A. New Materials: As specified in product sections; match existing products and work for patching and extending work.
- B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
- B. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.
- C. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks or openings of substrate prior to applying next material or substance.

3.03 ALTERATIONS

- A. Remove existing work as indicated and as required to accomplish new work.
 - 1. Where new surface finishes are to be applied to existing work, perform removals, patch, and prepare existing surfaces as required to receive new finish; remove existing finish if necessary for successful application of new finish.
 - 2. Where new surface finishes are not specified or indicated, patch holes and damaged surfaces to match adjacent finished surfaces as closely as possible.
- B. Adapt existing work to fit new work: Make as neat and smooth transition as possible.
- C. Patching: Where the existing surface is not indicated to be refinished, patch to match the surface finish that existed prior to cutting. Where the surface is indicated to be refinished, patch so that the substrate is ready for the new finish.

- D. Remove demolition debris and abandoned items from alterations areas and dispose of off-site.

3.04 CUTTING AND PATCHING

- A. Perform whatever cutting and patching is necessary to:
 1. Complete the work.
 2. Fit products together to integrate with other work.
 3. Match work that has been cut to adjacent work.
 4. Repair areas adjacent to cuts to required condition.

3.05 PROGRESS CLEANING

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.

3.06 FINAL CLEANING

- A. Execute final cleaning prior to final project assessment.
- B. Clean debris from roofs, gutters and downspouts.
- C. Clean site; sweep paved areas, rake clean landscaped surfaces.

3.07 CLOSEOUT PROCEDURES

- A. Notify Architect when work is considered ready for Substantial Completion.
- B. Correct items identified as not complying with requirements.

END OF SECTION

SECTION 07-0150.19

PREPARATION FOR RE-ROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Removal of existing roofing system in preparation for a new roof membrane system.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 MATERIAL REMOVAL

- A. Remove only existing roofing materials that can be replaced with new materials as the weather will permit.
- B. Remove drip edge and gutter and downspouts.
- C. Replace any damaged deck and wood fascia to make substrate suitable for new installation. Notify architect for change in costs to replacements.

3.02 PROTECTION

- A. Provide temporary protective sheeting over uncovered deck surfaces.
- B. Provide for surface drainage from sheeting to existing drainage outlets.

END OF SECTION

SECTION 07-3113

ASPHALT SHINGLES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Asphalt shingle roofing.
- B. Flexible sheet membranes for underlayment.
- C. Associated metal flashings and accessories.

1.02 SUBMITTALS

- A. See Section 01-3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data indicating material characteristics.
- C. Samples: Submit one samples of each shingle color indicating color range and finish texture/pattern; for color selection.
- D. Manufacturer's Instructions: Indicate installation criteria and procedures.
- E. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. Extra Shingles: 25 sq ft of each type and color.

1.03 QUALITY ASSURANCE

- A. Perform Work in accordance with the recommendations of NRCA Steep Roofing Manual.
 - 1. Special attention to slopes with 2:12 conditions.

1.04 FIELD CONDITIONS

- A. Do not install shingles when ambient air temperatures are below 45 degrees F.

PART 2 PRODUCTS

2.01 SHINGLES

- A. Manufacturers:
 - 1. Atlas Roofing Corporation; Product StormMaster Slate: www.atlasroofing.com.
 - 2. GAF Materials Corporation; Product Timberline Natural Shadow: www.gaf.com.
 - 3. Owens Corning Corp; Product Berkshire Collection: www.owenscorning.com.
 - 4. CertianTeed; Product Centinial Slate. www.certainteed.com
 - 5. Tamko; Product: Premium Heritage. www.tamko.com

2.02 SHEET MATERIALS

- A. Underlayment Membrane: Ice & Water Shield as manufactured by Grace or equal underlayment that meets roof shingle manufacturer's warranty.

2.03 ACCESSORIES

- A. Nails: Standard round wire shingle type, of hot-dipped zinc coated steel, 12 gage, 0.105 inch shank diameter, 3/8 inch head diameter, of sufficient length to penetrate decking 3/4 inch but not through roof decking.
- B. Vent Pipe Flashing: Standard flexible boot with aluminum flange.

2.04 METAL GUTTER, DOWNSPOUTS and FLASHINGS

- A. Metal Flashings: Provide sheet metal eave edge.
- B. Sheet Metal: 24 gage, pre-finished paint system for the gutter, downspouts and eave edge.
 - 1. Box gutter with brackets at 32 inch centers.
 - 2. Downspouts with brackets at 6 feet centers, minimum.
 - 3. Eave edge- standard drip edge profile.

4. Fabricate all flashings to allow for expansion and proper drainage.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions prior to beginning work.
- B. Verify deck surfaces are dry, free of ridges, warps, or voids.

3.02 PREPARATION

- A. Install eave edge flashings tight with fascia boards. Weather lap joints 2 inches and seal with plastic cement. Secure flange with nails spaced 12 inches on center.

3.03 INSTALLATION - UNDERLAYMENT

- A. Items projecting through or mounted on roof: Weather lap and seal watertight with plastic cement.
- B. Install underlayment through out the entire roof surface.
- C. Install underlayment perpendicular to slope of roof, with ends and edges weather lapped per manufacturers instructions. Stagger end laps of each consecutive layer.

3.04 INSTALLATION - METAL FLASHING AND ACCESSORIES

- A. Install flashings in accordance with NRCA requirements.
- B. Secure in place with nails at 12 inches on center. Conceal fastenings.
- C. Items Projecting Through or Mounted on Roofing: Flash and seal weather tight with plastic cement.
 1. Vent Pipe: Install boot and paint pipe.

3.05 INSTALLATION - SHINGLES

- A. Install shingles in accordance with manufacturer's instructions.
 1. Special attention to slopes with 2:12 conditions.
- B. Extend shingles 1/2 inch beyond face of gable edge fascia boards.
- C. Verify that nails do not penetrate the decking to exposure on the underside of deck.
- D. Lay shingle to prevent damage from worker walking on finished roof. Protect installed shingles.
- E. Cap ridges with individual shingles, maintaining 5 inch weather exposure. Place to avoid exposed nails.

END OF SECTION

SECTION 07-9005

JOINT SEALERS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Sealants and joint backing.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Polyurethane Sealants:
 - 1. Pecora Corporation; Product Pecora Dynatrol II: www.pecora.com.
 - 2. Chemrex Sonneborn NP1
 - 3. Tremco Dymeric 240
 - 4. Sherwin-Williams Company; Stampede-1/-TX Polyurethane Sealant: www.sherwin-williams.com.
- B. Acrylic Sealants (ASTM C920):
 - 1. Tremco Global Sealants: www.tremcosealants.com.
 - 2. Red Devil; Siliconized Acrylic Construction Grade (35 Year) Sealant: www.reddevil.com.
 - 3. Sherwin-Williams Company; Powerhouse Siliconized Acrylic Latex Sealant: www.sherwin-williams.com.

2.02 ACCESSORIES

- A. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.
- B. Joint Backing: Round foam rod compatible with sealant; closed cell polyethylene; oversized 30 to 50 percent larger than joint width.
- C. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Install bond breaker where joint backing is not used.
- C. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
- D. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- E. Tool joints concave.

3.02 SCHEDULE

- A. Work, generally, shall be polyurethane sealants and work to be painted with non-moving joints shall be acrylic sealants.

END OF SECTION

SECTION 09-9000

PAINTING AND COATING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Field application of paints.
- C. Scope: Finish all exterior surfaces exposed to view, unless fully factory-finished
- D. Do Not Paint or Finish the Following Items:
 - 1. Items fully factory-finished unless specifically so indicated; materials and products having factory-applied primers are not considered factory finished.
 - 2. Items indicated to receive other finishes.
 - 3. Items indicated to remain unfinished.

1.02 SUBMITTALS

- A. Product Data: Provide complete list of all products to be used, with the following information for each:
 - 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").

1.03 QUALITY ASSURANCE

- A. Applicator Qualifications: Company specializing in performing the type of work specified with minimum 5 years experience.

1.04 FIELD CONDITIONS

- A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Provide all paint and coating products from the same manufacturer to the greatest extent possible.
- B. Paints:
 - 1. Base Manufacturer: Sherwin-Williams Company: www.sherwin-williams.com..
 - a. Paint Line for wood shall be 100% acrylic SUPERPAINT.
 - b. Paint Line for metal shall be ALL SURFACE ENAMEL latex.
- C. Other manufacturers acceptable with equal products shall be:
 - 1. Duron, Inc: www.duron.com.
 - 2. Glidden Professional: www.gliddenprofessional.com.
 - 3. Benjamin Moore & Co: www.benjaminmoore.com.
 - 4. PPG Architectural Finishes, Inc: www.ppgaf.com.
 - 5. Pratt & Lambert Paints: www.prattandlambert.com.
- D. Primer Sealers: Same manufacturer as top coats.

2.02 PAINTS AND COATINGS - GENERAL

- A. Paints and Coatings: Ready mixed, unless intended to be a field-catalyzed coating.
 - 1. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.

2. Supply each coating material in quantity required to complete entire project's work from a single production run.
3. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.

B. Colors: As indicated on drawings

2.03 PAINT SYSTEMS - EXTERIOR

- A. Wood, Opaque, Latex, 3 Coat:
1. One coat of alkyd primer sealer.
 2. Semi-gloss: Two coats of latex enamel.
- B. Ferrous Metals, Primed, Latex, 2 Coat:
1. Touch-up with rust-inhibitive primer recommended by top coat manufacturer.
 2. Gloss: Two coats of latex enamel.

2.04 ACCESSORY MATERIALS

- A. Accessory Materials: Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required to achieve the finishes specified whether specifically indicated or not; commercial quality.
- B. Patching Material: Latex filler.
- C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION

3.01 PREPARATION

- A. Clean surfaces thoroughly and correct defects prior to coating application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.
- D. Seal surfaces that might cause bleed through or staining of topcoat.
- E. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
1. Cleaning Method: Power washer.
- F. Corroded Steel and Iron Surfaces to be Painted: Prepare using at least SSPC-PC 2 (hand tool cleaning) or SSPC-SP 3 (power tool cleaning) followed by SSPC-SP 1 (solvent cleaning).
- G. Exterior Wood Surfaces to Receive Opaque Finish: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with tinted exterior calking compound after prime coat has been applied. Back prime concealed surfaces before installation.

3.02 APPLICATION

- A. Apply products in accordance with manufacturer's instructions.
- B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- C. Apply each coat to uniform appearance.
- D. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

END OF SECTION

**Appendix Photos for
Task 3: Fire Station No. 3**



Photo 1.JPG



Photo 2.JPG

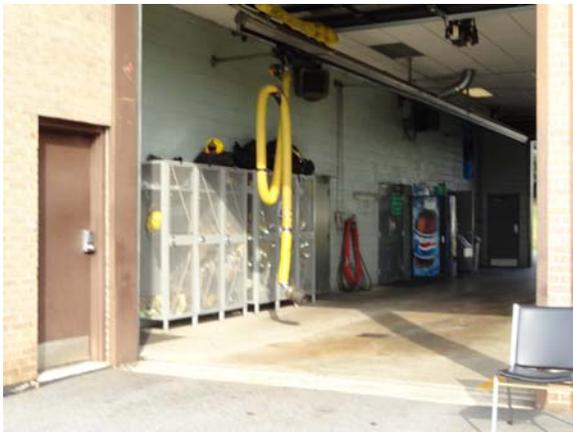


Photo 3.JPG



Photo 4.JPG



Photo 5.JPG



Photo 6.JPG

**Appendix Photos for
Task 3: Fire Station No. 3**



Photo 7.JPG



Photo 8.JPG



Photo 9.JPG



Photo 10.JPG



Photo 11.JPG



Photo 12.JPG

ROOF REPLACEMENT AND EXTERIOR REPAIRS

FOR

TASK 3: FIRE STATION NO. 3

4701 FORT AVENUE LYNCHBURG, VIRGINIA 24504

LYNCHBURG CITY BUILDING NO. FE403

ARCHITECT

CRADDOCK CUNNINGHAM ARCHITECTURAL PARTNERS P.C.

10 NINTH STREET
LYNCHBURG, VA 24504
phone: (434) 846-8456
fax: (434) 846-4534
email: info@ccappp.com
contact person: Mark Smith, Architect
direct email: mark@ccappp.com

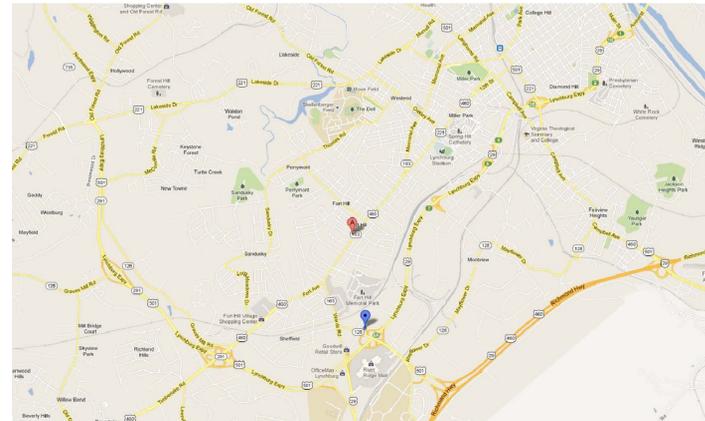
OWNER

CITY OF LYNCHBURG, VA
PUBLIC WORKS DEPARTMENT

BUILDINGS & GROUNDS DIVISION
800 ORCHARD STREET
LYNCHBURG, VA 24501
phone: (434) 455-4409
fax: (434) 845-1813
email: scott.glass@lynchburgva.gov
contact person: Scott Glass, AIA

DRAWING LIST

CS1.1 Cover Sheet
A1.1 Roof Plan and Details



VICINITY MAP



SITE MAP



ABBREVIATIONS

AB ANCHOR BOLT	DET DETAIL(ED)	GRG GRATING	LLV LONG LEG VERTICAL	FLYD PLYWOOD	STC SOUND TRANSMISSION COEFFICIENT
ABV ABOVE	DIA DIAMETER	GWB GYPSUM WALLBOARD	LOC LOCATION	PNLG PANELING	STD STANDARD
ACST ACOUSTIC	DIAG DIAGONAL, DIAGRAM	GYP GYPSUM	LONG LONGITUDINAL	PR PAIR	STL STEEL
ACT ABOVE FINISHED CEILING TILE	DIM DIMENSION	H HEIGHT, HIGH	LPT LOW POINT	PSF POUNDS PER SQUARE FOOT	STO STORAGE
AFI ABOVE FINISHED FLOOR	DK DECK	HB HOSE BIBB	MACH MACHINE	PSI POUNDS PER SQUARE INCH	STRUCT STRUCTURAL
AGGR AGGREGATE	DN DOWN	HBD HARDBOARD	MAS MASONRY	PT PRESSURE TREATED, POINT, POINT OF TANG.	SUSP (SUSPENDED)
AHR ANCHOR	DGH DOOR OPENING HEIGHT	HC HANDICAPPED	MATL MATERIAL	FTN PARTITION	SYM SYMMETRICAL
AL ALUMINUM	DON DOOR OPENING WIDTH	HWN HARDWARE	MAX MAXIMUM	FVC POLYVINYL CHLORIDE, POINT OF VERTICAL CURVE	SYS SYSTEM
APC ARCHITECTURAL PRECAST	DP DAMPROOFING	HWD HARDWOOD	MCT MARMOLEUM COMPOSITE TILE	GT QUARRY TILE	TEL TELEPHONE
APPROX APPROXIMATE	DR DOOR	HM HOLLOW METAL	MDF MEDIUM DENSITY FIBERBOARD	R RADIUS, REACTION, RISER, RESISTANCE	T46 TONGUE AND GROOVE
ARCH ARCHITECTURAL	DS DOWNSPOUT	HMD HOLLOW METAL DOOR	MECH MECHANICAL	RA RETURN AIR	THK THICK(NESS)
AVG AVERAGE	DWG DRAWING	HMF HOLLOW METAL FRAME	MEZZ MEZZANINE	RAF RESILIENT ATHLETIC FLOORING	THR THRESHOLD
BD BOARD	EA EACH	HOR HORIZONTAL	MFR MANUFACTURER	RCP REFLECTED CEILING PLAN	TOS TOP OF STEEL
BET BETWEEN	EIFS EXTERIOR INSULATION FINISH SYSTEM	HPT HIGH POINT	MIN MINIMUM	R&PT RECEPTACLE(S)	TOT TOTAL
BLDG BUILDING	EJ EXPANSION JOINT	HR HANDRAIL	MISC MISCELLANEOUS	RD ROOF DRAIN	TRD TREAD
BLK BLOCKING	EL ELEVATION	HT HEIGHT	MO MASONRY OPENING	REF REFERENCE	TRD TREATED
BM BEAM	ELEC ELECTRICAL	HVAC HEATING, VENTILATING & AIR CONDITIONING	MOH MASONRY OPENING HEIGHT	REINF REINFORCEMENT(I) (NG)	T STAT THERMOSTAT
BOT BOTTOM	ELEV ELEVATOR, ELEVATION	HW HOT WATER	MON MASONRY OPENING WIDTH	REQD REQUIRED	TYP TYPICAL
BRG BEARING	ENCL ENCLOSE(URE)	ID INSIDE DIAMETER	MNT MOUNT	RCP REFLECTED CEILING PLAN	UON UNLESS OTHERWISE NOTED
BUR BUILT-UP ROOF(ING)	EQ EQUAL	IN INCH	MTL METAL	RET RETURN	UTIL UTILITY
C/C CENTER TO CENTER	EGPT EQUIPMENT	INCL INCLUSIVE	MUL MULLION	REV REVERSE ACTING, REVISED, REVISION	VENT VENTILATE
CIP CAST-IN-PLACE, CAST IRON PIPE	ENG ELECTRIC WATER COOLER	INSTL INSTALL(ED)	MNP MEMBRANE WATERPROOFING	RF RETURN FAN, ROOF	VERT VERTICAL
CJ CONTROL JOINT	EXH EXHAUST	INSUL INSULATE(I) (NG) (ION)	N NORTH	RG RETURN GRILLE	VEST VESTIBULE
CL CENTER LINE	EXT EXISTING	INT INTERIOR	NO NOT IN CONTRACT	RM ROOM	VIF VERIFY IN FIELD
CFS COLD FORMED STEEL	EXP EXPOSED	INTMD INTERMEDIATE	NO NUMBER	RO ROUGH OPENING	VNR VENEER
CFMF COLD FORMED METAL FRAMING	EXPN EXPANSION	ISOL ISOLATION	NOM NOMINAL	RU ROLL UP	VTR VENT THRU ROOF
CLG CEILING	EXT EXTERIOR	JAN JANITOR	NST NONSLIP TREAD	S SOLID, SOUTH, SWITCH	VWG VINYL WALL COVERING
CLR CLEAR	F4R FLASHING & NEEPS	JST JOIST	NIS NOT TO SCALE	SA STATUS ALARM, SUPPLY AIR	W WITH
CMU CONCRETE MASONRY UNIT	FD FLOOR DRAIN	JT JOINT(S), POWER TRANSMITTER	OAH OVERALL HEIGHT	SCHD SCHEDULE	WC WATER CLOSET, WATER COLUMN
COL COLUMN	FCN FOUNDATION	KOP KNOCKOUT PANEL	OC ON CENTER	SECT SECTION	WD WINDOW
COMP COMPOSITE	F/F FACE TO FACE	L LENGTH, LINE, LONG	OD OUTSIDE DIAMETER	SF SQUARE FEET (FOOT)	W/O WITHOUT
CONC CONCRETE, CONCENTRATED	FIN FINISH(ED)	LAB LABORATORY	OFCI OWNER FURNISHED CONTRACTOR INSTALLED	SG SUPPLY GRILLE	WOH WINDOW OPENING HEIGHT
CONN CONNECT(ED), CONNECTION	FL FLOOR	LAM LAMINATE	OFF OFFER FURNISHED OWNER INSTALLED	SH SHEET	WOW WINDOW OPENING WIDTH
CONSTR CONSTRUCTION	FRP FIBERGLASS REINFORCED POLYESTER	LAV LAVATORY	OFF OFFICE	SIM SIMILAR	WP WEATHERPROOF, WORKING POINT
CONT CONTINUATION, CONTINUOUS, CONTROL	FT FOOT(FEET)	LB POUND	OH OVERHEAD	SLP SLOPE	WRWB WATER RESISTANT GYPSUM WALLBOARD
CONTR CONTRACT, CONTRACTOR	FRT FIRE RETARDANT TREATED	LF LINEAR FOOT	OC ON CENTER	SNT SEALANT	WVF WELDED WIRE FABRIC
COORD COORDINATE	FTG FOOTING	LG LENGTH, LONG	OC ON CENTER	SPEC SPECIFICATION(S)	WV WATER RESISTANT GYPSUM WALLBOARD
CORR CORRIDOR, CORRUGATED	FUT FUTURE	LIN LINEAR	OC ON CENTER	SPEF SPRAY POLYURETHANE FOAM INSULATION	WV WATER RESISTANT GYPSUM WALLBOARD
CT CERAMIC TILE	GA GAGE	LL LIVE LOAD	OC ON CENTER	SQ SQUARE	WV WELDED WIRE FABRIC
CTNG CEILING	GAL GALLON	LLH LONG LEG HORIZONTAL	OC ON CENTER	SST STAINLESS STEEL	WV WELDED WIRE FABRIC
CTR CENTER	GALV GALVANIZED				
COUNTERSINK	GL GLASS				
DEPTH DEEP					
DBL DOUBLE					
DEPT DEPARTMENT					

SYMBOL LEGEND

	PRE CAST ARCHITECTURAL CONCRETE "APC"		FINISH WOOD
	GYPSUM WALLBOARD		PLYWOOD
	BRICK OR MASONRY VENEER		CONCRETE
	CONCRETE MASONRY UNITS "CMU"		CRUSHED STONE BASE MATERIAL
	RIGID INSULATION		EARTH
	BATT INSULATION		STEEL
	COLUMN TAG		ELEV. NO. SYMBOL ELEVATION REFERENCE
	ELEVATION MARKER		DOOR TAG
	WALL TYPE TAG		DETAIL NO. SYMBOL DETAIL REFERENCE
	GENERAL NOTE TAG		SECTION NO. SYMBOL SECTION REFERENCE
	LOUVER TAG		INTERIOR ELEVATION MARKER
	WINDOW TAG		SECTION NO. SYMBOL 2 SECTION REFERENCE
	FINISH SCHEDULE TAG		



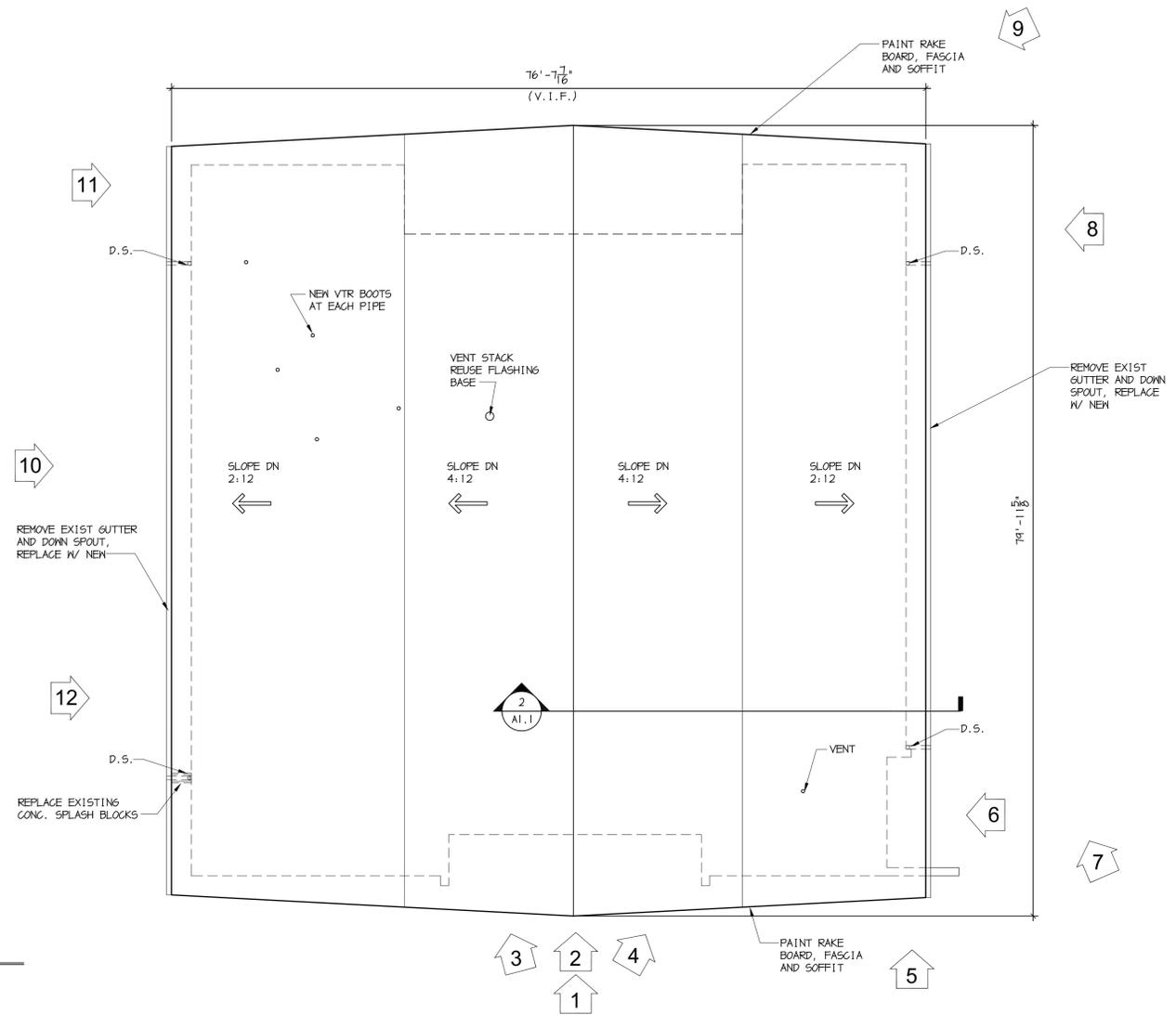
WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

DESIGNED: MWS, CCS
DRAWN: CCS
CHECKED: MWS
DATE: 2013-05-21
REVISIONS:

COVER SHEET

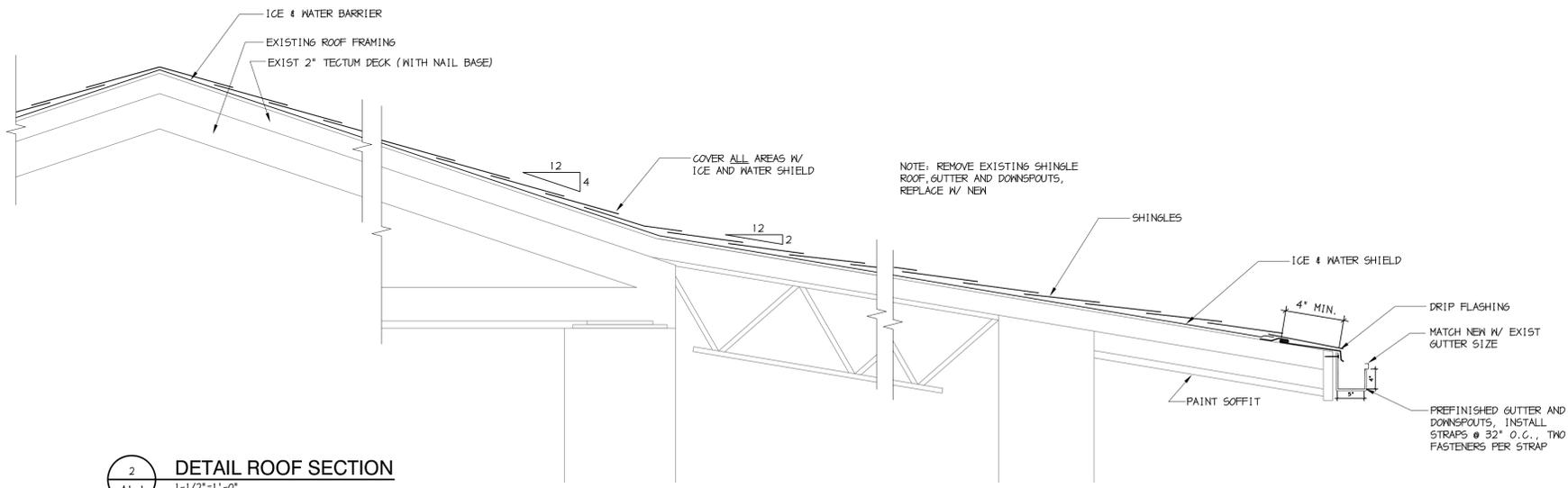
CS1.1

- LEGEND**
- ROOF SLOPE
 - PHOTO REFERENCE
 - VENT PIPE

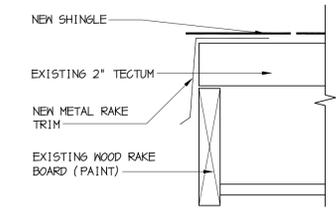


GENERAL NOTE
 1. ALL DIMENSIONS ARE TAKEN LEVEL, NOT ON SLOPE OF ROOF. CONTRACTOR TO BE RESPONSIBLE FOR ALL QUANTITIES OF MATERIALS.

NORTH
 1 ROOR PLAN BLDG. NO. FE403
 A1.1 1/8"=1'-0"



2 DETAIL ROOF SECTION
 A1.1 1-1/2"=1'-0"



3 EDGE DETAIL
 A1.1 3"=1'-0"

CITY OF LYNCHBURG
TASK 3: FIRE STATION NO. 3
 LYNCHBURG, VA PROJECT NO: 13102



WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

DESIGNED: MWS, CCS
 DRAWN: CCS
 CHECKED: MWS
 DATE: 2013-05-21
 REVISIONS:

ROOF PLAN AND DETAILS