



# DEPARTMENT OF VETERANS AFFAIRS VA MEDICAL CENTER MARTINSBURG, WEST VIRGINIA

## REPLACEMENT OF CHILLER PLANT TRANSFORMER 100% SUBMISSION JULY 30, 2013

ARCHITECT / ENGINEERS:



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Stamp/Seal

Drawing Title

COVER SHEET

Approved: Project Director

Project Title

REPLACEMENT OF CHILLER  
PLANT TRANSFORMER

Location

VAMC, MARTINSBURG, WV

Date

07/30/2013

Checked

TOS

Drawn

LCW

VA Project Number

613-12-114

Building Number

503

Drawing Number

G-001

Office of  
Construction  
and Facilities  
Management



100% SUBMISSION	07/30/2013
95% SUBMISSION	07/01/2013
30% SUBMISSION	04/25/2013
Revisions:	Date

VICINITY MAP



LOCATION MAP



INDEX OF DRAWINGS

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ES001	ELECTRICAL COVER SHEET
ES002	ELECTRICAL RISER DIAGRAMS
ES101	ELECTRICAL DEMOLITION AND NEW WORK

ABBREVIATIONS

<b>A</b>	ACT ACoustical CEILING TILE ADJ ADJACENT AFF ABOVE FINISH FLOOR ALUM ALUMINUM ANOD ANODIZED APPROX APPROXIMATELY @ AT	<b>I</b>	IB INTEGRAL BASE ID INSIDE DIAMETER IN INCH(ES) INT INTERIOR INTEG INTEGRAL INTLK INTERLOCK	<b>S</b>	S SOUTH SCW SOLID CORE WOOD SEAL SEALANT SECT SECTION SHT SHEET SIM SIMILAR SPEC SPECIFICATION(S) SQ SQUARE SSM SOLID SURFACE MATERIAL S STL STAINLESS STEEL SSV SEAMLESS SHEET VINYL STL STEEL STN STAIN STOR STORAGE STRUCT STRUCTURAL SV SHEET VINYL
<b>B</b>	BLKG BLOCKING	<b>L</b>	LAM LAMINATE (D) LAV LAVATORY LB POUND LG LENGTH LH LEFT HAND LHRB LEFT HAND REVERSE BEVEL LOCK LOCKERS LVR LOUVER	<b>T</b>	TC TERRA COTTA TEL TELEPHONE TEMP TEMPORARY THK THICK(NESS) TOC TOP OF CURB/ TOP OF CONC. TOIL TOILET TOS TOP OF SLAB/ TOP OF STEEL TPTN TOILET PARTITION TV TELEVISION TW TOP OF WALL TYP TYPICAL TZ TERRAZZO
<b>C</b>	CAB CABINET CCT CUBICLE CURTAIN TRACK CG CORNER WALL GUARD CLG CEILING CLOS CLOSET CMU CONCRETE MASONRY UNIT CMT CEMENTITIOUS CONC CONCRETE CONT CONTINUOUS CORR CORRIDOR CSS CLINICAL SERVICE SINK CPT CARPET CT CERAMIC TILE	<b>M</b>	MA MEDICAL AIR MAX MAXIMUM MED MEDICAL/MEDICATIONS MFR MANUFACTURER MIN MINIMUM MISC MISCELLANEOUS MO MASONRY OPENING MTL METAL	<b>V</b>	VAC VACUUM VB VAPOR BARRIER VCT VINYL COMPOSITION TILE VERT VERTICAL VIF VERIFY IN FIELD VWC VINYL WALL COVERING
<b>D</b>	DET DETAIL DIA DIAMETER DIM DIMENSION DR DOOR DRESS DRESSING DWG DRAWING DWR DRAWER	<b>N</b>	N NORTH/ NITROGEN NC NURSE CALL NEG NEGATIVE NIC NOT IN CONTRACT NO NUMBER NOM NOMINAL NTS NOT TO SCALE	<b>W</b>	W WEST W WITH WC WATERCLOSET/ WATER COOLER/ WALL COVERING WOOD WG WIRE GLASS WH WALL HUNG WO WITHOUT WP WATERPROOF(ING) WR WATER RESISTANT WS WEATHERSTRIPPING WSCT WAINSCOT WT WEIGHT
<b>E</b>	EA EACH EG END WALL GUARD ELEC ELECTRIC(AL) ELEV ELEVATOR/ ELEVATION EMER EMERGENCY EQUIP EQUIPMENT ETR EXISTING TO REMAIN EWC ELECTRIC WATER COOLER EXIST EXISTING EXT EXTERIOR	<b>O</b>	OA OVERALL OC ON CENTER OD OUTSIDE DIAMETER OH OPPOSITE HAND O/OX OXYGEN OPG OPENING	<b>WD</b>	WD WIRE GLASS WG WALL HUNG WO WITHOUT WP WATERPROOF(ING) WR WATER RESISTANT WS WEATHERSTRIPPING WSCT WAINSCOT WT WEIGHT
<b>F</b>	FA FIRE ALARM FT FEET/ FOOT FD FLOOR DRAIN FE FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET FHS FIRE HOSE STATION FHC FIRE HOSE CABINET FLR FLOOR(ING) FLUOR FLUORESCENT FR FRAME FVC FIRE VALVE CABINET	<b>P</b>	PL PLATE PLAM PLASTIC LAMINATE PLYWD PLYWOOD PNL PANEL PNT PAINT PR PAIR PTD PAINTED PTN PARTITION	<b>W</b>	W WEST W WITH WC WATERCLOSET/ WATER COOLER/ WALL COVERING WOOD WG WIRE GLASS WH WALL HUNG WO WITHOUT WP WATERPROOF(ING) WR WATER RESISTANT WS WEATHERSTRIPPING WSCT WAINSCOT WT WEIGHT
<b>G</b>	GALV GALVANIZE(D) GB GRAB BAR / GYPSUM BOARD GC GENERAL CONTRACTOR GOVT GOVERNMENT GYP BD GYPSUM BOARD	<b>R</b>	RB RESILIENT BASE REQD REQUIRED RESIL RESILIENT REV REVISED RH RIGHT HAND RHRB RIGHT HAND REVERSE BEVEL RO ROUGH OPENING	<b>W</b>	W WEST W WITH WC WATERCLOSET/ WATER COOLER/ WALL COVERING WOOD WG WIRE GLASS WH WALL HUNG WO WITHOUT WP WATERPROOF(ING) WR WATER RESISTANT WS WEATHERSTRIPPING WSCT WAINSCOT WT WEIGHT
<b>H</b>	HC HOLLOW CORE HDW HARDWARE HGT HEIGHT HM HOLLOW METAL HORIZ HORIZONTAL				

BUILDING INFORMATION

ADDRESS: VA MEDICAL CENTER  
510 BUTLER AVENUE  
BUILDING 503  
MARTINSBURG, WEST VIRGINIA

BUILDING DESCRIPTION: INDUSTRIAL

SCOPE OF WORK: REPLACEMENT OF CHILLER PLANT TRANSFORMER

BUILDING CODE REFERENCE: INTERNATIONAL BUILDING CODE (2012),  
NEC, OSHA, UFAS, & LIFE SAFETY CODE (2012)

USE GROUP: F2 (FACTORY AND INDUSTRIAL)

CONSTRUCTION TYPE: IIB

FIRE SUPPRESSION: FULLY SPRINKLER PROTECTED

BUILDING STORIES: 1

EXISTING FLOOR AREA: 1,720 GSF

HIGH RISE: NO

RENOVATION AREA: 556 SF INTERIOR

REFERENCE INFORMATION

<b>KEYNOTES</b>	<b>DEMOLITION NOTES</b>	<b>JUNCTION BOX</b>
<b>REFERENCE</b>	<b>PARTITION TYPE IDENTIFICATION</b>	<b>FLUORESCENT FIXTURES</b>
<b>ELEVATION MARKER</b>	<b>ELEVATION REFERENCE</b>	<b>EXST. FLUORESCENT FIXTURES</b>
<b>DETAIL REFERENCE</b>	<b>SECTION REFERENCE</b>	<b>CEILING GRILLE</b>
<b>AREA BEYOND LIMIT OF CONSTRUCTION</b>	<b>REVISION IDENTIFICATION</b>	<b>DOWNLIGHT</b>
<b>EXISTING CONST. TO BE REMOVED</b>	<b>DOOR AND WINDOW IDENTIFICATION</b>	<b>EXIT LIGHT</b>
<b>EXISTING CONST. TO REMAIN</b>	<b>NEW CONST.</b>	<b>DECORATIVE DOWNLIGHT</b>
<b>CONCRETE (CAST IN PLACE OR PRECAST)</b>	<b>RIGID INSULATION</b>	<b>WALL SCONCE</b>
<b>BRICK</b>	<b>UNDERBED MATERIAL</b>	<b>TELEPHONE OUTLET</b>
<b>CONCRETE MASONRY UNIT</b>	<b>CONTINUOUS WOOD BLOCKING</b>	<b>DATA OUTLET</b>
<b>EARTH</b>	<b>DISCONTINUOUS WOOD BLOCKING</b>	<b>DUPLEX OUTLET</b>
<b>BATT INSULATION</b>	<b>ALUMINUM</b>	<b>QUADRAPLEX OUTLET</b>
<b>STEEL</b>		
<b>FINISHED LUMBER</b>		
<b>PLYWOOD</b>		

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Stamp/Seal

Drawing Title  
**BUILDING AND GENERAL INFORMATION**

Approved: Project Director

Project Title  
**REPLACEMENT OF CHILLER PLANT TRANSFORMER**

Location  
**VAMC, MARTINSBURG, WV**

Date  
**07/30/2013**

Checked  
**TOS**

Drawn  
**LCW**

VA Project Number  
**613-12-114**

Building Number  
**503**

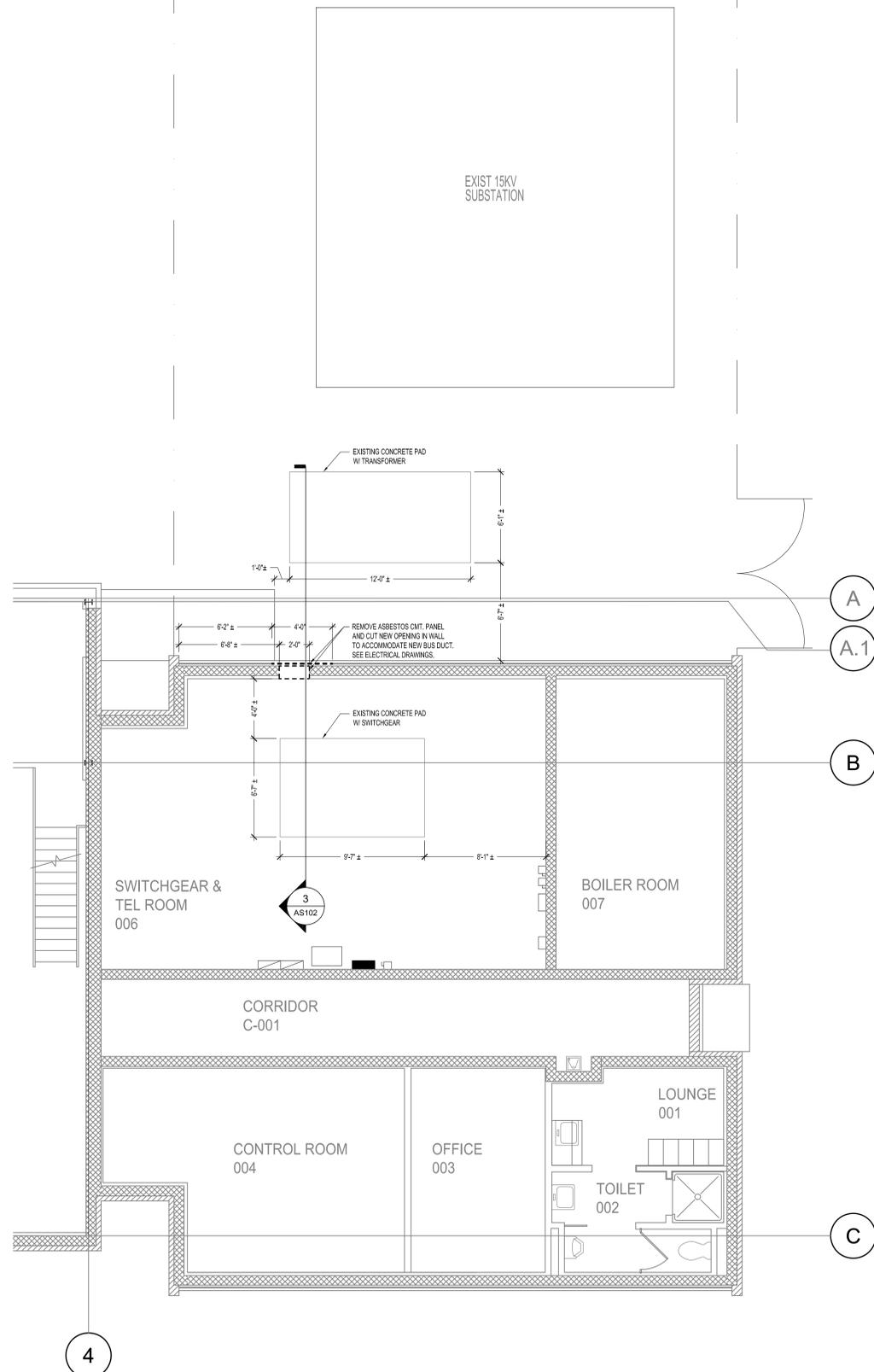
Drawing Number  
**G-002**

Office of  
Construction  
and Facilities  
Management

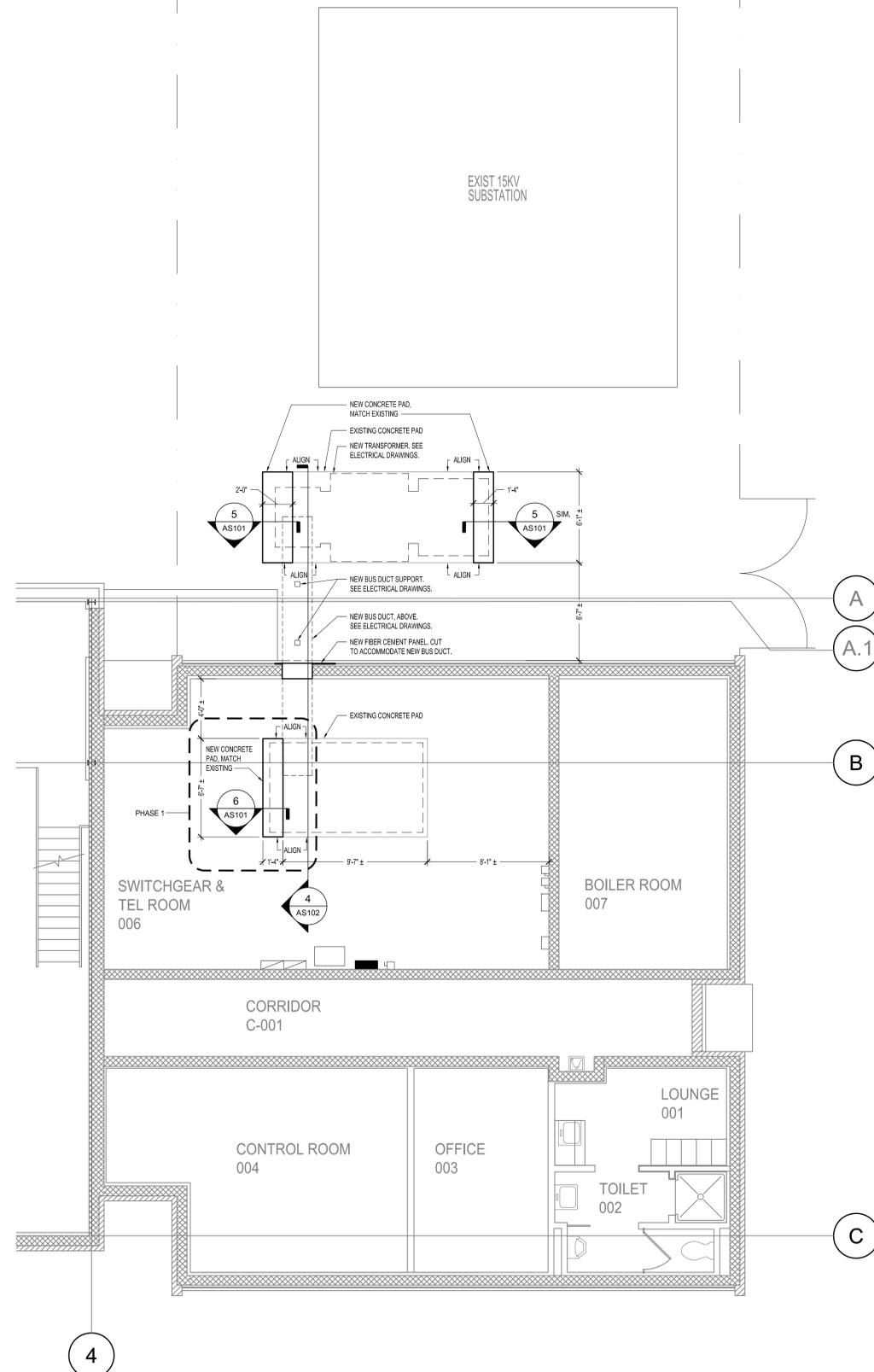


100% SUBMISSION	07/30/2013
95% SUBMISSION	07/01/2013
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3" = 1'-0"  
 1 1/2" = 1'-0"  
 1" = 1'-0"  
 3/4" = 1'-0"  
 1/2" = 1'-0"  
 3/8" = 1'-0"  
 1/4" = 1'-0"  
 1/8" = 1'-0"



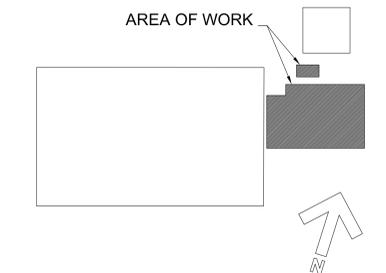
1 DEMOLITION FLOOR PLAN  
 SCALE: 1/4" = 1'-0"



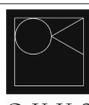
2 NEW WORK FLOOR PLAN  
 SCALE: 1/4" = 1'-0"

- EXCAVATION, TRENCHING, AND BACKFILLING NOTES:
- EXCAVATION FOR EQUIPMENT PADS:
    - DIG OUT TO DEPTH OF EXISTING CONCRETE EQUIPMENT PAD.
    - PRIOR TO PLACEMENT OF CONCRETE, COMPACT SOIL IN AREA OF PAD EXTENSIONS USING MECHANICAL EQUIPMENT TO NOT LESS THAN 95% OF THE MAXIMUM DENSITY DETERMINED IN ACCORDANCE WITH ASTM D698.
    - IF NECESSARY, ADD SOIL AND COMPACT AS DESCRIBED ABOVE, TO RAISE ELEVATION TO MATCH BOTTOM OF EXISTING EQUIPMENT PAD.
  - TRENCHING FOR FEEDERS:
    - EXCAVATE TO A WIDTH AS NECESSARY FOR SHEETING AND BRACING AND PROPER PERFORMANCE OF THE WORK.
    - PROVIDE SHORING AS REQUIRED TO PROTECT WORKERS.
    - GRADE BOTTOM OF TRENCHES TO PROVIDE UNIFORM BEARING.
    - SUPPORT FEEDERS ON SUITABLE UNDISTURBED EARTH. UNSTABLE MATERIAL REMOVED FROM THE BOTTOM OF THE TRENCH OR EXCAVATION SHALL BE REPLACED WITH SELECT GRANULAR MATERIAL PLACED IN LAYERS NOT EXCEEDING 150 MM (6 INCHES) LOOSE THICKNESS.
    - PROVIDE IDENTIFICATION TAPE. BURY TAPE 300 MM (12 INCHES) BELOW FINISHED GRADE.
    - REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS REGARDING INSTALLATION OF NEW FEEDERS.
  - FILLING AND BACKFILLING:
    - DO NOT FILL OR BACKFILL UNTIL ALL DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS HAVE BEEN REMOVED FROM THE EXCAVATION.
    - PLACE MATERIAL IN HORIZONTAL LAYERS NOT EXCEEDING 200 MM (8 INCHES) IN LOOSE DEPTH AND THEN COMPACTED. DO NOT PLACE MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST.
    - COMPACTION: USE APPROVED EQUIPMENT (HAND OR MECHANICAL) WELL SUITED TO THE TYPE OF MATERIAL BEING COMPACTED. DO NOT OPERATE MECHANIZED VIBRATORY COMPACTION EQUIPMENT WITHIN 10 FEET OF NEW OR EXISTING BUILDING WALLS WITHOUT THE PRIOR APPROVAL OF THE COTR. MOISTEN OR AERATE MATERIAL AS NECESSARY TO PROVIDE THE MOISTURE CONTENT THAT WILL READILY FACILITATE OBTAINING THE SPECIFIED COMPACTION WITH THE EQUIPMENT USED. COMPACT EACH LAYER TO NOT LESS THAN 95 PERCENT OF THE MAXIMUM DENSITY DETERMINED IN ACCORDANCE WITH ASTM D698.

PHASING NOTE:  
 PHASE 1 ARCHITECTURAL WORK SHALL ONLY INCLUDE THE EXTENSION OF THE EXISTING CONCRETE PAD IN THE SWITCHGEAR & TEL ROOM 006, AS INDICATED ON THE PLAN. ALL OTHER ARCHITECTURAL WORK SHALL BE INCLUDED IN PHASE 2. SEE ELECTRICAL DRAWINGS FOR CONCURRENT ELECTRICAL WORK IN PHASES 1 AND 2.



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Drawing Title  
**FLOOR PLANS**

Approved: Project Director

Project Title  
**REPLACEMENT OF CHILLER  
 PLANT TRANSFORMER**

Location  
**VAMC, MARTINSBURG, WV**

Date  
**07/30/2013**

Checked  
**TOS**

Drawn  
**LCW**

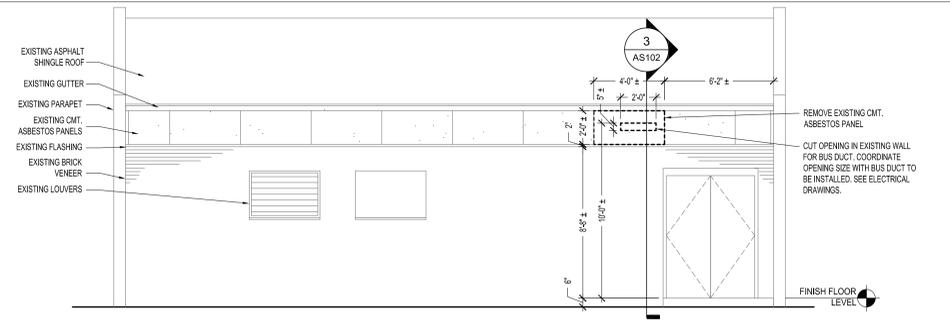
VA Project Number  
**613-12-114**

Building Number  
**503**

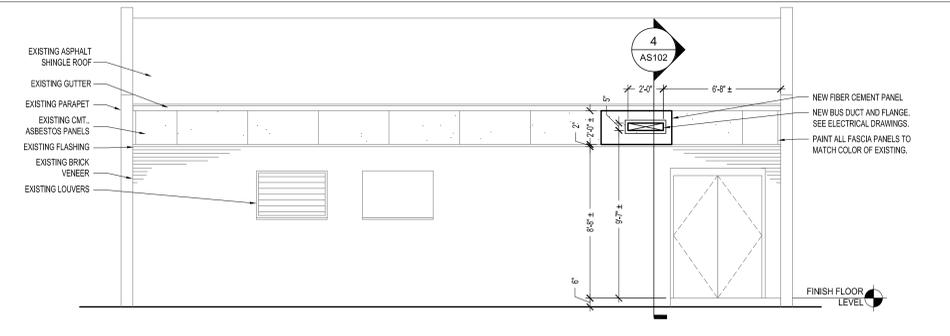
Drawing Number  
**AS101**

Office of  
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 and Facilities  
 Management

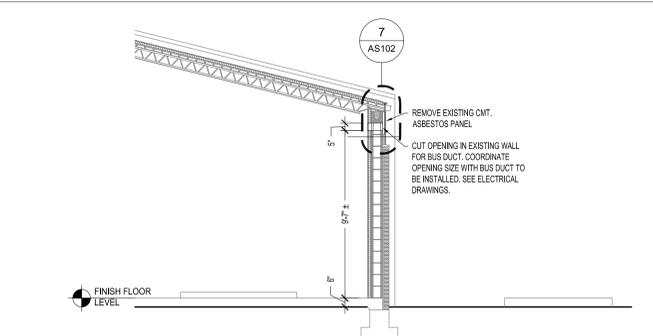
Department of  
 Veterans Affairs



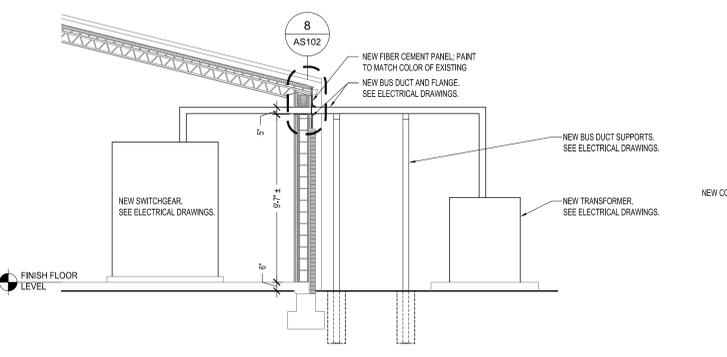
1 NORTH EXTERIOR ELEVATION - PHASE 2 DEMOLITION  
SCALE: 1/4" = 1'-0"



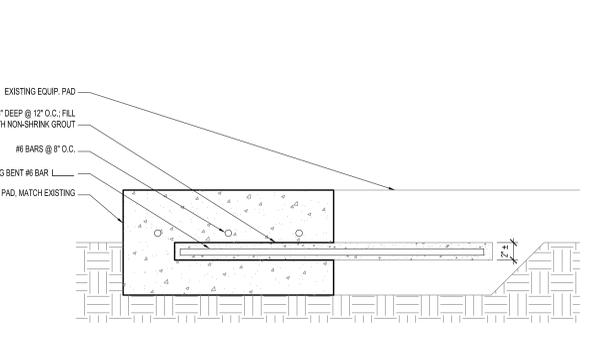
2 NORTH EXTERIOR ELEVATION - PHASE 2 NEW WORK  
SCALE: 1/4" = 1'-0"



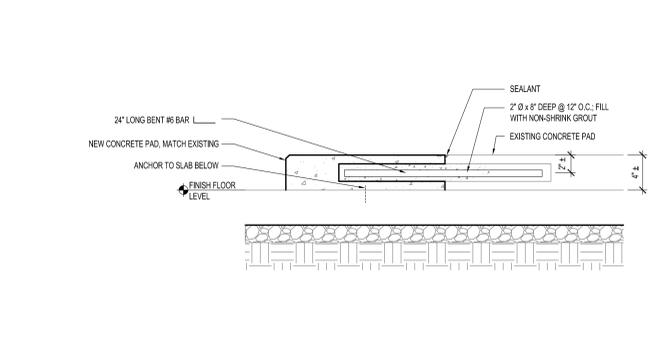
3 SECTION THRU EXISTING EXTERIOR WALL - PHASE 2 DEMOLITION  
SCALE: 1/4" = 1'-0"



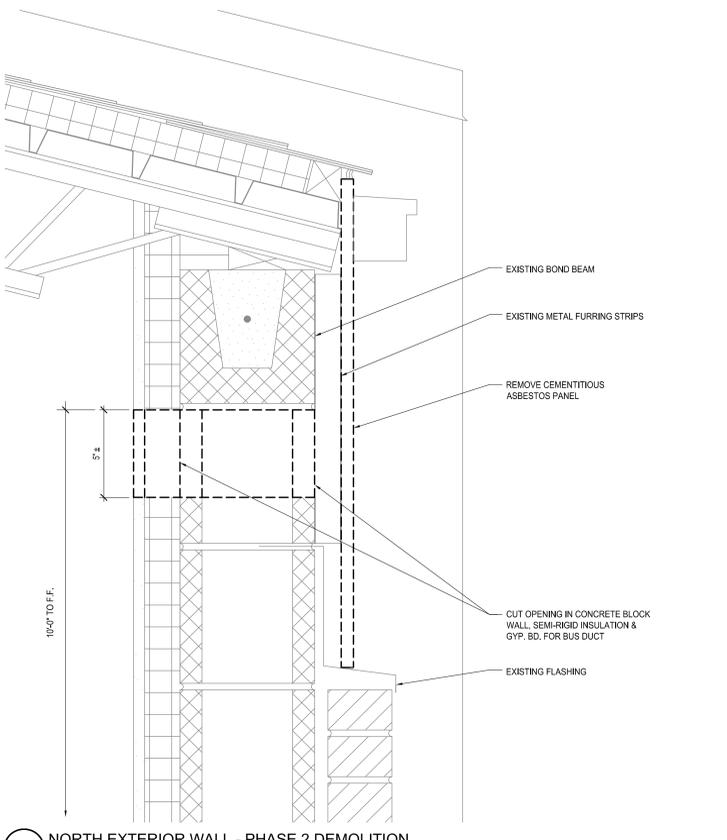
4 SECTION THRU EXISTING EXTERIOR WALL - PHASE 2 NEW WORK  
SCALE: 1/4" = 1'-0"



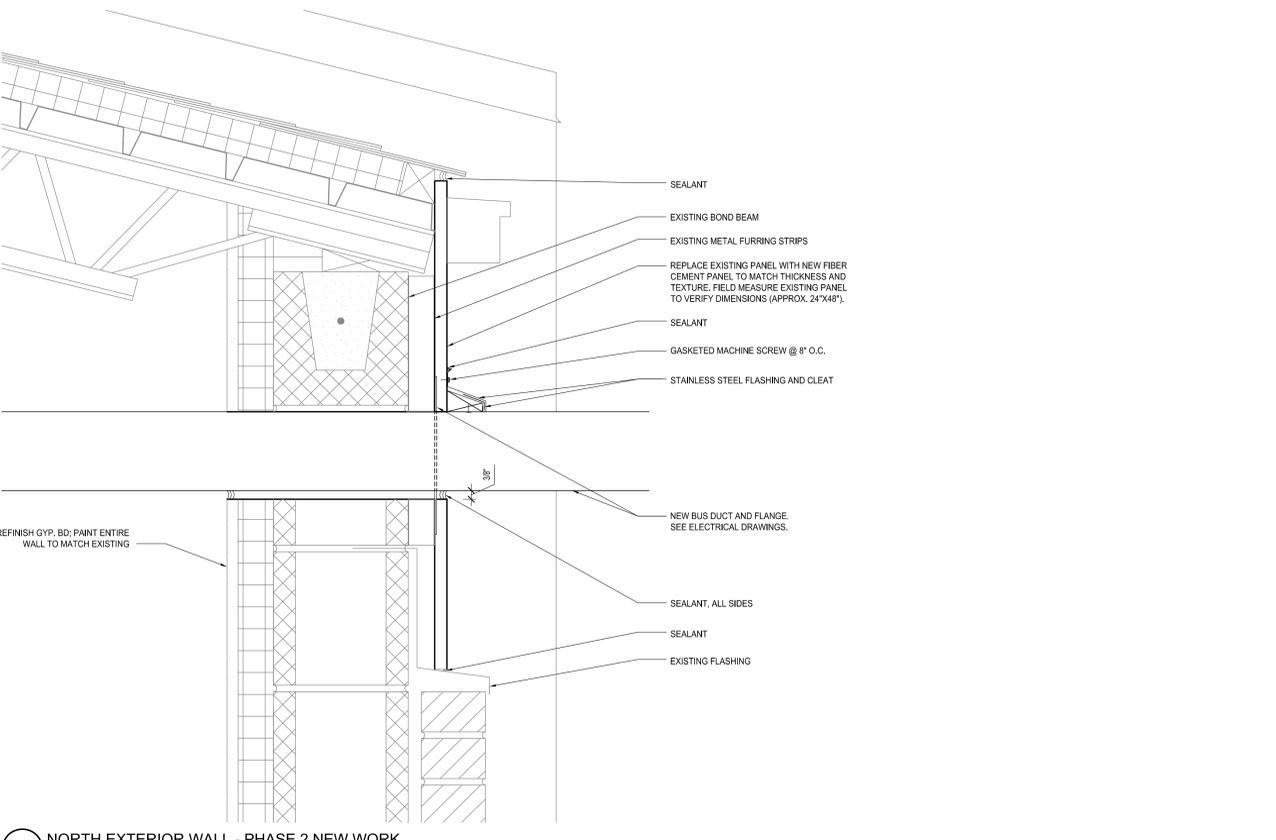
5 SECTION THRU EXTERIOR EQUIPMENT PAD EXTENSION - PHASE 2  
SCALE: 1-1/2" = 1'-0"



6 SECTION THRU INTERIOR EQUIPMENT PAD EXTENSION - PHASE 1  
SCALE: 1-1/2" = 1'-0"

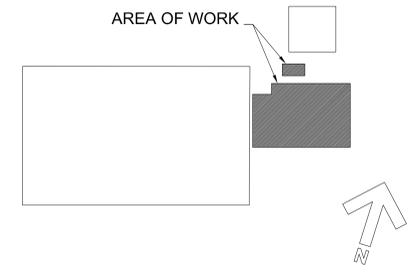


7 NORTH EXTERIOR WALL - PHASE 2 DEMOLITION  
SCALE: 3" = 1'-0"



8 NORTH EXTERIOR WALL - PHASE 2 NEW WORK  
SCALE: 3" = 1'-0"

PHASING NOTE:  
PHASE 1 ARCHITECTURAL WORK SHALL ONLY INCLUDE THE EXTENSION OF THE EXISTING CONCRETE PAD IN THE SWITCHGEAR & TEL. ROOM (00). AS INDICATED. ALL OTHER ARCHITECTURAL WORK SHALL BE INCLUDED IN PHASE 2. SEE ELECTRICAL DRAWINGS FOR CONCURRENT ELECTRICAL WORK IN PHASES 1 AND 2.



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Drawing Title  
**ELEVATIONS AND DETAILS**

Approved: Project Director

Project Title  
**REPLACEMENT OF CHILLER PLANT TRANSFORMER**

Location  
**VAMC, MARTINSBURG, WV**

Date  
**07/30/2013**

Checked  
**TOS**

Drawn  
**LCW**

VA Project Number  
**613-12-114**

Building Number  
**503**

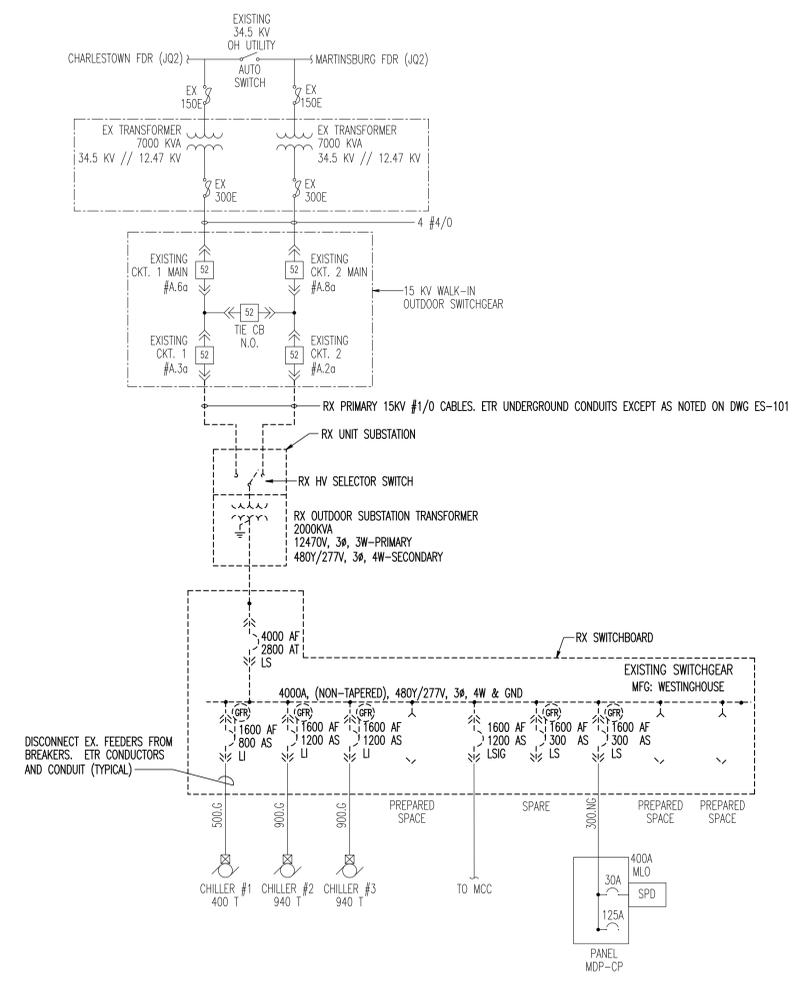
Drawing Number  
**AS102**

Office of Construction and Facilities Management

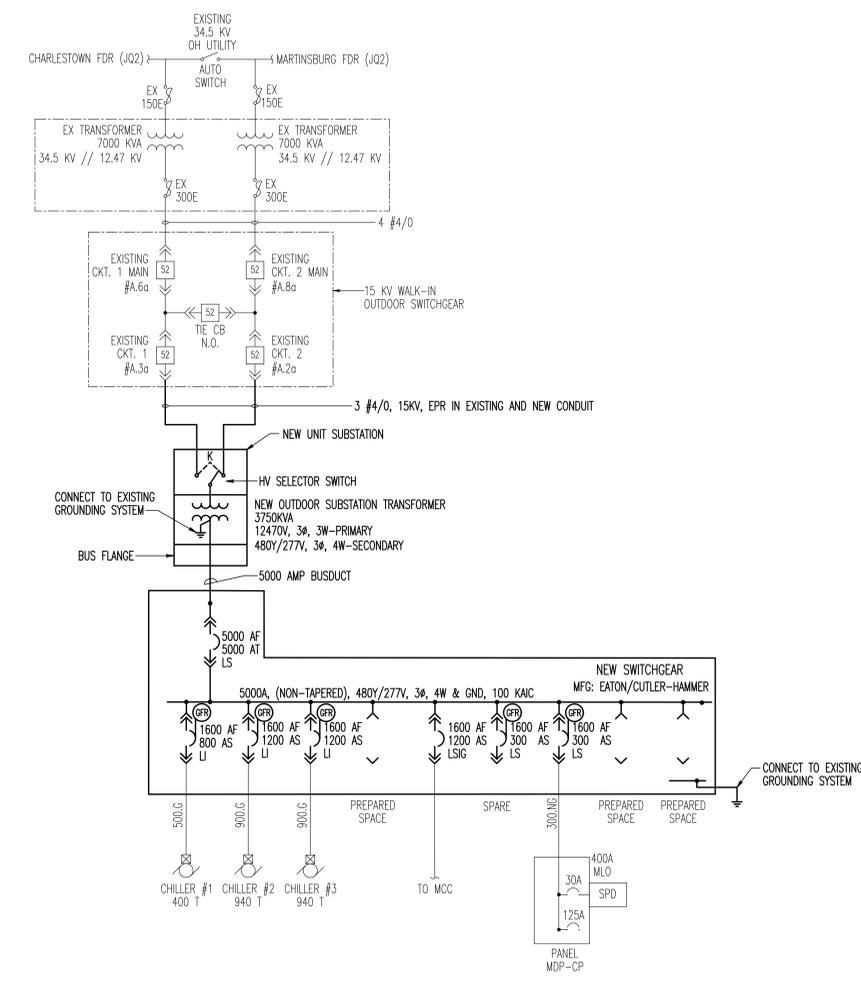
Department of Veterans Affairs



GENERAL NOTES: (APPLICABLE TO ELECTRICAL DRAWINGS ONLY)  
 G1. REFER TO DRAWING ES101 FOR PROJECT PHASING REQUIREMENTS.



1 SINGLE LINE DIAGRAM - DEMOLITION  
 ES-4.1 SCALE: NTS



1 SINGLE LINE DIAGRAM - NEW WORK  
 ES-4.1 SCALE: NTS

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Drawing Title  
**ELECTRICAL RISER DIAGRAMS**

Approved: Project Director

Project Title  
**REPLACEMENT OF CHILLER PLANT TRANSFORMER**

Location  
**VAMC, MARTINSBURG, WV**

Date: 07/30/2013  
 Checked: KMG  
 Drawn: MLS

VA Project Number  
**613-12-114**

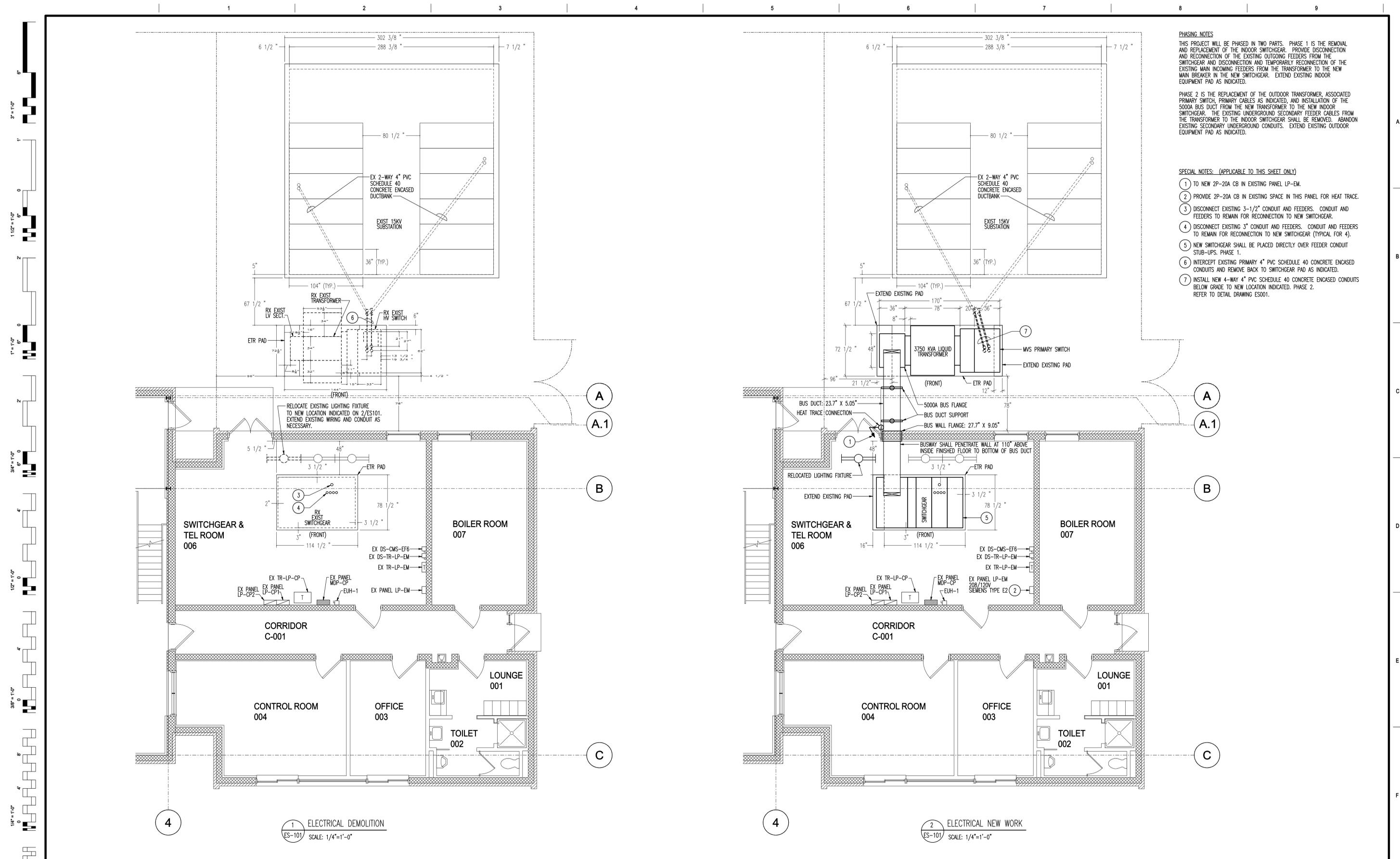
Building Number  
**503**

Drawing Number  
**ES002**

Office of  
 Construction  
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**PHASING NOTES**

THIS PROJECT WILL BE PHASED IN TWO PARTS. PHASE 1 IS THE REMOVAL AND REPLACEMENT OF THE INDOOR SWITCHGEAR. PROVIDE DISCONNECTION AND RECONNECTION OF THE EXISTING OUTGOING FEEDERS FROM THE SWITCHGEAR AND DISCONNECTION AND TEMPORARILY RECONNECTION OF THE EXISTING MAIN INCOMING FEEDERS FROM THE TRANSFORMER TO THE NEW MAIN BREAKER IN THE NEW SWITCHGEAR. EXTEND EXISTING INDOOR EQUIPMENT PAD AS INDICATED.

PHASE 2 IS THE REPLACEMENT OF THE OUTDOOR TRANSFORMER, ASSOCIATED PRIMARY SWITCH, PRIMARY CABLES AS INDICATED, AND INSTALLATION OF THE 5000A BUS DUCT FROM THE NEW TRANSFORMER TO THE NEW INDOOR SWITCHGEAR. THE EXISTING UNDERGROUND SECONDARY FEEDER CABLES FROM THE TRANSFORMER TO THE INDOOR SWITCHGEAR SHALL BE REMOVED. ABANDON EXISTING SECONDARY UNDERGROUND CONDUITS. EXTEND EXISTING OUTDOOR EQUIPMENT PAD AS INDICATED.

- SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)**
- 1 TO NEW 2P-20A CB IN EXISTING PANEL LP-EM.
  - 2 PROVIDE 2P-20A CB IN EXISTING SPACE IN THIS PANEL FOR HEAT TRACE.
  - 3 DISCONNECT EXISTING 3-1/2" CONDUIT AND FEEDERS. CONDUIT AND FEEDERS TO REMAIN FOR RECONNECTION TO NEW SWITCHGEAR.
  - 4 DISCONNECT EXISTING 3" CONDUIT AND FEEDERS. CONDUIT AND FEEDERS TO REMAIN FOR RECONNECTION TO NEW SWITCHGEAR (TYPICAL FOR 4).
  - 5 NEW SWITCHGEAR SHALL BE PLACED DIRECTLY OVER FEEDER CONDUIT STUB-UPS. PHASE 1.
  - 6 INTERCEPT EXISTING PRIMARY 4" PVC SCHEDULE 40 CONCRETE ENCASED CONDUITS AND REMOVE BACK TO SWITCHGEAR PAD AS INDICATED.
  - 7 INSTALL NEW 4-WAY 4" PVC SCHEDULE 40 CONCRETE ENCASED CONDUITS BELOW GRADE TO NEW LOCATION INDICATED. PHASE 2. REFER TO DETAIL DRAWING ES001.

1 ELECTRICAL DEMOLITION  
ES-101 SCALE: 1/4"=1'-0"

2 ELECTRICAL NEW WORK  
ES-101 SCALE: 1/4"=1'-0"

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