

# ROOF REPAIR / REPLACEMENT FOR BUILDINGS 1785 AND 1788

FEDERAL PROJECT NUMBER: PN15140056 & 7

FOR THE STATE OF HAWAII, DEPARTMENT OF DEFENSE, HAWAII ARMY NATIONAL GUARD

## 100% FINAL DESIGN

NOT FOR CONSTRUCTION



**FERRARO CHOI**  
 FERRARO CHOI AND ASSOCIATES LTD  
 1240 ALA MOANA BLVD, SUITE 510  
 HONOLULU, HI 96826  
 P: 808.540.0855  
 F: 808.599.3789  
 WWW.FERRAROCHOI.COM  
A/E INFO



SEP. 4/20/2008  
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THE PROJECT WILL BE UNDER MY SUPERVISION. SEAL

BUILDING CODE SUMMARY	PROJECT INFORMATION	PROJECT TEAM	ZONING CODE SUMMARY
<p><b>APPLICABLE CODES AND STANDARDS:</b></p> <p>2006 INTERNATIONAL BUILDING CODE (IBC) AS ADOPTED BY THE CITY AND COUNTY OF HONOLULU</p> <p>2006 NFPA 1: UNIFORM FIRE CODE (UFC) AS ADOPTED BY THE CITY AND COUNTY OF HONOLULU</p> <p>2006 UNIFORM PLUMBING CODE (UPC) WITH STATE AMENDMENTS</p> <p>2008 NATIONAL ELECTRICAL CODE (NEC) AS ADOPTED BY THE CITY AND COUNTY OF HONOLULU</p> <p>2006 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) AS ADOPTED BY THE CITY AND COUNTY OF HONOLULU</p> <p>UNIFIED FACILITIES CRITERIA (UFC)                      UFC 1-200-01 GENERAL BUILDING REQUIREMENTS, 01 JULY 2013                      UFC 1-200-02 HIGH PERFORMANCE AND SUSTAINABLE BUILDING REQUIREMENTS, 01 MARCH 2013                      UFC 1-300-09N DESIGN PROCEDURES, 01 MAY 2014                      UFC 3-101-01 ARCHITECTURE, 28 NOVEMBER 2011                      UFC 3-101-04 ROOFING, 01 MAY 2012</p> <p>NATIONAL GUARD DESIGN GUIDES AND STANDARDS (DG)                      DG 415-1 READINESS CENTERS DESIGN GUIDE, 01 JUNE 2011                      DG 415-5 GENERAL FACILITIES INFORMATION DESIGN GUIDE, 01 JUNE 2011, APPENDIX A                      NG PAM 415-12 FACILITIES ALLOWANCES, 01 JUNE 2011</p> <p>2010 ADA STANDARDS FOR ACCESSIBLE DESIGN</p> <p>TRADE STANDARDS:                      AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE) 90.1                      SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA)                      NRCA, ROOFING AND WATERPROOFING MANUAL                      AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM)</p> <p>TYPE OF CONSTRUCTION: VB, NO CHANGE IN CONSTRUCTION</p> <p>FIRE SPRINKLER: NONE</p> <p>OCCUPANCY GROUP: B (EXISTING USE, TO REMAIN)</p> <p>NUMBER OF STORIES: 1 STORY (EXISTING, NO CHANGE)</p> <p>FLOOR AREA (EXISTING): 1,725 SF AND 3,210 SF BUILDING 1785 AND 1788 RESPECTIVELY                      NOTE: NO CHANGE IN FLOOR AREA TO EXISTING BUILDING.</p>	<p>PROJECT NAME: ROOF REPAIR / REPLACEMENT FOR BUILDINGS 1785 &amp; 1788</p> <p>DEPARTMENT OF DEFENSE</p> <p>TAX MAP KEY: 9-1-013-050</p> <p>PROJECT ADDRESS: 91-1168 &amp; 91-1164 ENTERPRISE AVE BARBERS POINT NAS 96862</p> <p>OWNER: DEPARTMENT OF DEFENSE</p> <p>SUMMARY OF WORK: ROOF REPAIR/ REPLACEMENT</p>	<p>ARCHITECT: FERRARO CHOI AND ASSOCIATES, LTD. 1240 ALA MOANA BOULEVARD, SUITE 510 HONOLULU, HAWAII 96814 808.533.8880</p> <p>MECHANICAL, ELECTRICAL &amp; PLUMBING ENGINEERS: WSP HAWAII INC. 1132 BISHOP ST, SUITE 1850 HONOLULU, HAWAII 96813 808.536.1737</p> <p>ENVIRONMENTAL: ENVIRONMETEO SERVICES, INC. 94-520 UKE'E ST WAIPAHU, HAWAII 96797 808.671.8383</p>	<p>TAX MAP KEY: 9-1-013-050</p> <p>ZONING DISTRICT (LUO): F-1</p> <p>FLOOD ZONE: D</p> <p>SPECIAL MANAGEMENT AREAS: NOT IN SMA</p> <p>SPECIAL DESIGN DISTRICT: NOT IN SPECIAL DESIGN DISTRICT</p> <p>HISTORIC REGISTER: NONE</p> <p>LOT RESTRICTIONS: NONE</p> <p>HEIGHT LIMIT: 15 FT OR 25 FT WITH 1:2 SETBACK, NO CHANGE IN HEIGHT</p> <p>STREET SETBACK: NONE</p> <p>LOT AREA: 5.93 ACRES</p> <p>FLOOR AREA (LUO): BLDG 1785: 1,725 SF                      BLDG 1788: 3,210 SF                      EXISTING, NO CHANGE IN AREA</p> <p>EXISTING USES: OFFICE, NO CHANGE IN USE</p> <p>NOTE:                      NO CHANGE IN FLOOR AREA, NO CHANGE IN PARKING</p>
	<p><b>INDEX TO DRAWINGS</b></p>		
	<p>GENERAL: G0.01 - TITLESHEET                      G0.02 - ABBREVIATIONS AND SYMBOLS</p> <p>ARCHITECTURE: A1.01 - BLDG 1785 DEMO &amp; NEW ROOF PLAN                      A1.02 - BLDG 1788 DEMO &amp; NEW ROOF PLAN                      A9.01 - ROOF DETAILS</p>	<p>MECHANICAL: M0.01 - GENERAL NOTES AND LEGEND                      M1.01 - BLDGS 1785 &amp; 1788 ROOF PLANS                      M2.01 - MECHANICAL SCHEDULES</p> <p>ELECTRICAL: E1.01 - BLDGS 1785 &amp; 1788 ELECTRICAL NOTES, LEGEND &amp; ROOF ELECTRICAL PLANS</p>	<p><b>PROJECT SITE</b></p>
<p>ACCESSIBILITY STATEMENT:                      CONFORMANCE WITH THE DESIGN AND CONSTRUCTION REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES ADMINISTERED BY THE DEPARTMENT OF JUSTICE OR THE FAIR HOUSING ACT ACCESSIBILITY GUIDELINES ADMINISTERED BY THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT SHALL BE EQUIVALENT TO MEETING THE ACCESSIBILITY OF THIS CODE. CONSTRUCTION OF PUBLIC BUILDINGS OR FACILITIES IN COMPLIANCE WITH HRS 103-50 SHALL BE EQUIVALENT TO MEETING THE ACCESSIBILITY OF THIS CODE.</p>	<p><b>LOCATION MAP</b></p> <p>PROJECT SITE</p>	<p><b>VICINITY MAP</b></p> <p>PROJECT SITE</p>	<p>PROJECT SITE</p>

SY#	DESCRIPTION	DATE	APPR

100% FINAL DESIGN

06-19-15

DES: JD    DRW: CP    CHK: TM

DEPARTMENT OF DEFENSE  
 DESIGN AND PROJECT MANAGEMENT BRANCH  
 HAWAII ARMY NATIONAL GUARD  
 ROOF REPAIR / REPLACEMENT OF BUILDINGS 1785 & 1788  
 91-1168 & 91-1164 ENTERPRISE AVE  
 KALAELOA, KAPOLEI, OAHU 96062, HI

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 FACILITY MANAGEMENT OFFICE  
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SCALE: VARIES

STATE JOB NO. CA-1419-D



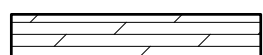
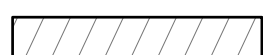
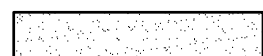
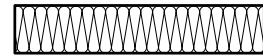

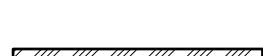
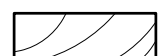
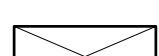
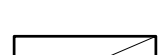
FEDERAL PROJECT NO. PN15140056 & 7

SHEET 1 OF 9

**G0.01**

TITLE SHEET

MATERIAL INDICATIONS

	CONCRETE CAST IN PLACE OR PRECAST
	RIGID INSULATION
	PLYWOOD
	COVER BOARD
	GYPSUM BOARD
	BATT INSULATION
	STEEL (OMIT INDICATION IN THIN MATERIAL)
	ALUMINUM (OMIT INDICATION IN THIN MATERIAL)
	WOOD, FINISH
	WOOD FRAMING THROUGH MEMBER
	WOOD FRAMING INTERRUPTED MEMBER

ABBREVIATIONS

<b>A</b> A.F.F. ABOVE FINISH FLOOR AL ALUMINUM ALT ALTERNATE A.P. ACCESS PANEL APPROX. APPROXIMATE ARCH. ARCHITECTURAL	<b>B</b> BD. BOARD BLDG. BUILDING BLK. BLOCK BLKG. BLOCKING BM. BEAM BOT. BOTTOM	<b>C</b> C.J. CONTROL JOINT CLKG. CAULKING CLR. CLEAR C.M.U. CONCRETE MASONRY UNIT CONC. CONCRETE COND. CONDITION CONN. CONNECTION CONSTR. CONSTRUCTION CONT. CONTINUOUS CONTR. CONTRACTOR CTR. CENTER	<b>D</b> DBL. DOUBLE DIA. DIAMETER DIM. DIMENSION DN. DOWN DWG. DRAWING	<b>E</b> E. EAST (E) EXISTING EA. EACH E.F. EXTERIOR FINISH ELEC. ELECTRICAL ELEV. ELEVATOR E.P. ELECTRICAL PANEL EQ. EQUAL EQPM. EQUIPMENT EXIST. EXISTING EXPO. EXPOSED EXT. EXTERIOR	<b>F</b> F.F. FACTORY FINISH F.F.EL. FINISH FLOOR ELEVATION FIN. FINISH FL. FLOOR F.O.F. FACE OF FINISH F.O.M. FACE OF MASONRY F.O.S. FACE OF STUD FR. FRAME F.S. FINISH SYSTEM FT. FOOT OR FEET	<b>G</b> GA. GAUGE GALV. GALVANIZE G.B. GRAB BAR GL. GLASS GND. GROUND GR. GRADE GYP. GYPSUM	<b>H</b> H. HEIGHT/HIGH H.C. HOLLOW CORE HDWR. HARDWARE H.M. HOLLOW METAL HORIZ. HORIZONTAL HR. HOUR H.V.A.C. HEATING, VENTILATION & AIR CONDITIONING HW. HOT WATER	<b>I</b> I.D. INSIDE DIAMETER INCL. INCLUSIVE OR INCLUDED INSUL. INSULATION INT. INTERIOR	<b>J</b> JAN. JANITOR JST. JOIST JT. JOINT	<b>K</b> KIT. KITCHEN	<b>L</b> LAB. LABORATORY LAM. LAMINATE LAV. LAVATORY L.F. LINEAL FEET LT. LIGHT	<b>M</b> MAT. MATERIAL MAX. MAXIMUM M.D. METAL DECK MECH. MECHANICAL MET. METAL MFR. MANUFACTURER MIN. MINIMUM MISC. MISCELLANEOUS M.O. MASONRY OPENING MOUNT. MOUNTED MTG. MOUNTING MUL. MULLION	<b>N</b> N. NORTH N.I.C. NOT IN CONTRACT NO.; # NUMBER NOM. NOMINAL N.T.S. NOT TO SCALE	<b>O</b> OA. OVERALL OBS. OBSOLETE O.C. ON CENTER O.D. OUTSIDE DIAMETER O.F.C.I. OWNER FURNISHED CONTRACTOR INSTALLED O.F.O.I. OWNER FURNISHED OWNER INSTALLED OFF. OFFICE O.H. OVERHANG OPNG. OPENING OPP. OPPOSITE OVHD. OVERHEAD	<b>P</b> P. PAINT PC. PIECE PL. PLATE P-LAM. PLASTIC LAMINATE PLAS. PLASTER PLBG. PLUMBING PLYWD. PLYWOOD PNL. PANEL PR. PAIR P.T.D. PAPER TOWEL DISPENSER PART. PARTITION P.T.R. PAPER TOWEL RECEPTACLE	<b>R</b> R. RISER RAD. RADIUS REF. REFERENCE REFR. REFRIGERATOR REINF. REINFORCED OR REINFORCING REQD. REQUIRED REV. REVISED RESIL. RESILIENT R.H. ROBE HOOK RM. ROOM R.O. ROUGH OPENING	<b>S</b> S. SOUTH S.A. SINGLE ACTING S.C. SOLID CORE S.C.D. SEAT COVER DISPENSER SCHED. SCHEDULE S.D. SOAP DISPENSER SECT. SECTION SFT. SHEET SHWR. SHOWER SIM. SIMILAR SL. SLOPE S.N.D. SANITARY NAPKIN DISPENSER S.N.R. SANITARY NAPKIN RECEPTACLE SPEC. SPECIFICATION SQ. SQUARE SST. STAINLESS STEEL S.SK. SERVICE SINK STD. STANDARD STL. STEEL STOR. STORAGE STRUCT. STRUCTURAL SURR. SURROUND SUSP. SUSPENDED SYM. SYMMETRICAL SYS. SYSTEM	<b>T</b> T. TREAD T.B. TOWEL BAR TEL. TELEPHONE TEMP. TEMPERED T&G. TONGUE AND GROOVE THK. THICK THR. THRESHOLD TKBD. TACKBOARD TOIL. TOILET T.P.D. TOILET PAPER DISPENSER T.P.H. TOILET PAPER HOLDER T.V. TELEVISION TYP. TYPICAL	<b>U</b> UNFIN. UNFINISHED U.O.N. UNLESS OTHERWISE NOTED UR. URINAL	<b>V</b> V.C.T. VINYL COMPOSITION TILE VERT. VERTICAL VEST. VESTIBULE VIF. VERIFY IN FIELD VTR. VENT TO ROOF	<b>W</b> W. WIDTH W/ WITH W.C. WATER CLOSET WD. WOOD WDW. WINDOW W.H. WATER HEATER W.O. WHERE OCCURS W/O WITHOUT WP. WATERPROOF WR. WATER RESISTANT WT. WEIGHT W.W.M. WELDED WIRE MESH
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A/E/INTD



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ABBREVIATIONS AND SYMBOLS

SCALE: VARIES

STATE JOB NO. CA-1419-D

FEDERAL PROJECT NO. PN15140056 & 7

SHEET 2 OF 9

G0.02

DEMO NOTES:

1. VERIFY ROOF PENETRATION SIZES IN FIELD.
2. FIELD VERIFY ROOF DECK SLOPES. NOTIFY ARCHITECT IF ROOF DECK SLOPES ARE LESS THAN THOSE INDICATED.

KEY NOTES:

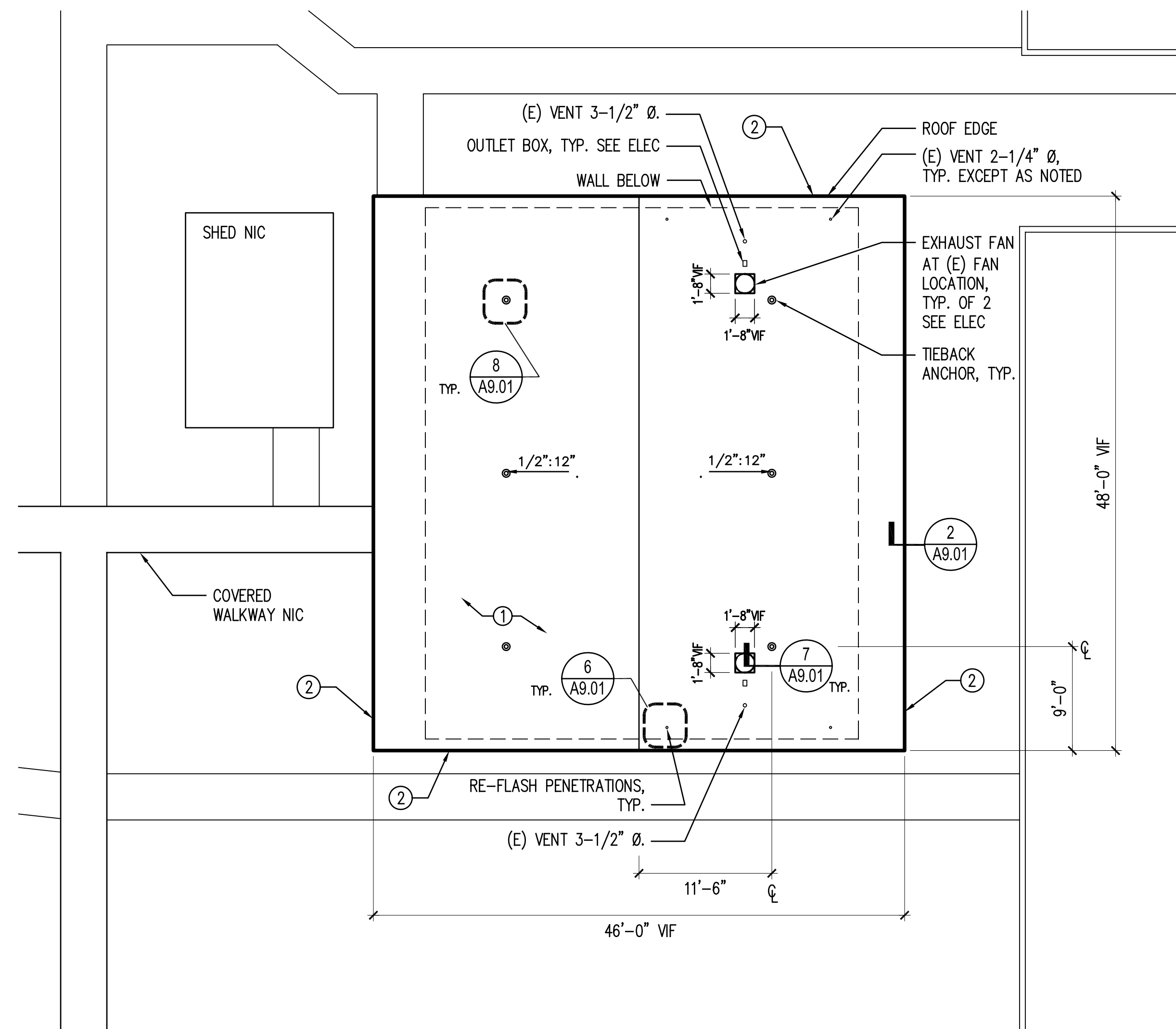
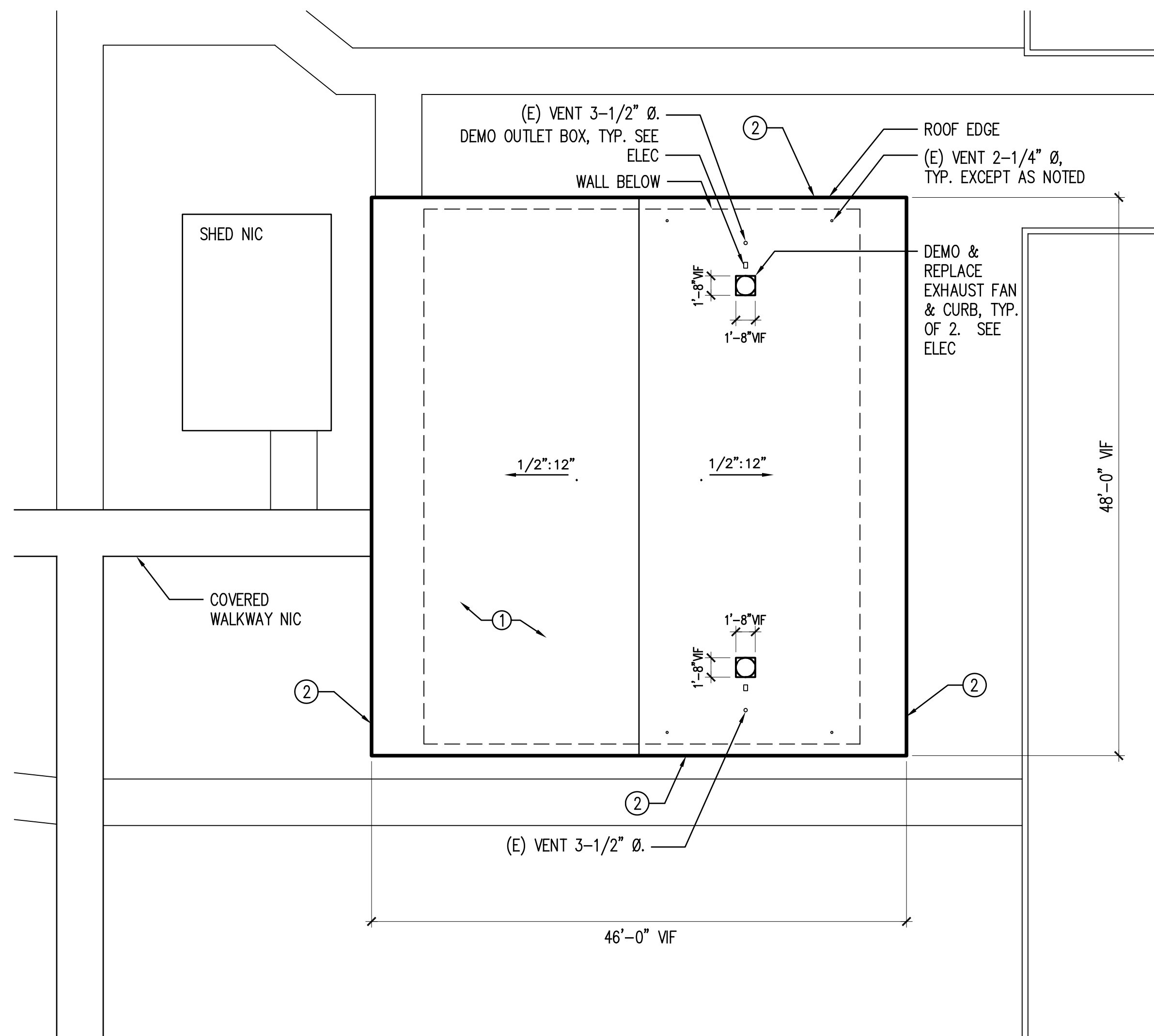
- ① REMOVE ROOFING SYSTEM TO CONCRETE ROOF DECK
- ② REMOVE EDGE FLASHING IN ITS ENTIRETY

ROOF NOTES:

1. VERIFY ROOF PENETRATION SIZES IN FIELD.
2. FIELD VERIFY ROOF SLAB SLOPES. NOTIFY ARCHITECT IF ROOF SLAB SLOPES ARE LESS THAN THOSE NOTED.

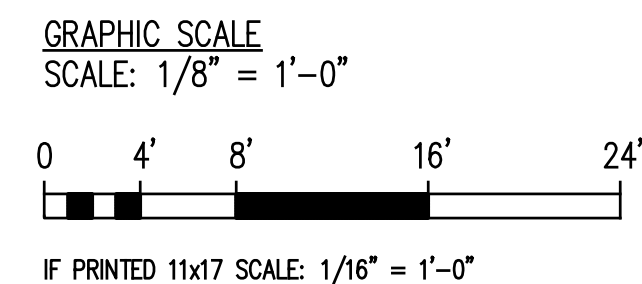
KEY NOTES:

- ① INSTALL EPDM COOL ROOF MEMBRANE WITH FLASHED PENETRATIONS OVER COVER BOARD AND RIGID INSULATION ON ALL ROOF SURFACES.
- ② METAL EDGE FLASHING



**1** BLDG 1785 - DEMO ROOF PLAN  
A1.01 SCALE: 1/8" = 1' - 0"

**2** BLDG 1785 - ROOF PLAN  
A1.01 SCALE: 1/8" = 1' - 0"



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SUBMITTAL DATE 06-19-15			
DES	JD	DRW	CPK

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DESIGN AND PROJECT MANAGEMENT BRANCH  
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STATE OF HAWAII FACILITY MANAGEMENT OFFICE	SCALE: 1/8" = 1' - 0"
STATE JOB NO. CA-1419-D	
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SHEET 3 OF 9	

DEMO NOTES:

1. VERIFY ROOF PENETRATION SIZES IN FIELD.
2. FIELD VERIFY ROOF DECK SLOPES. NOTIFY ARCHITECT IF ROOF DECK SLOPES ARE LESS THAN THOSE INDICATED.

KEY NOTES:

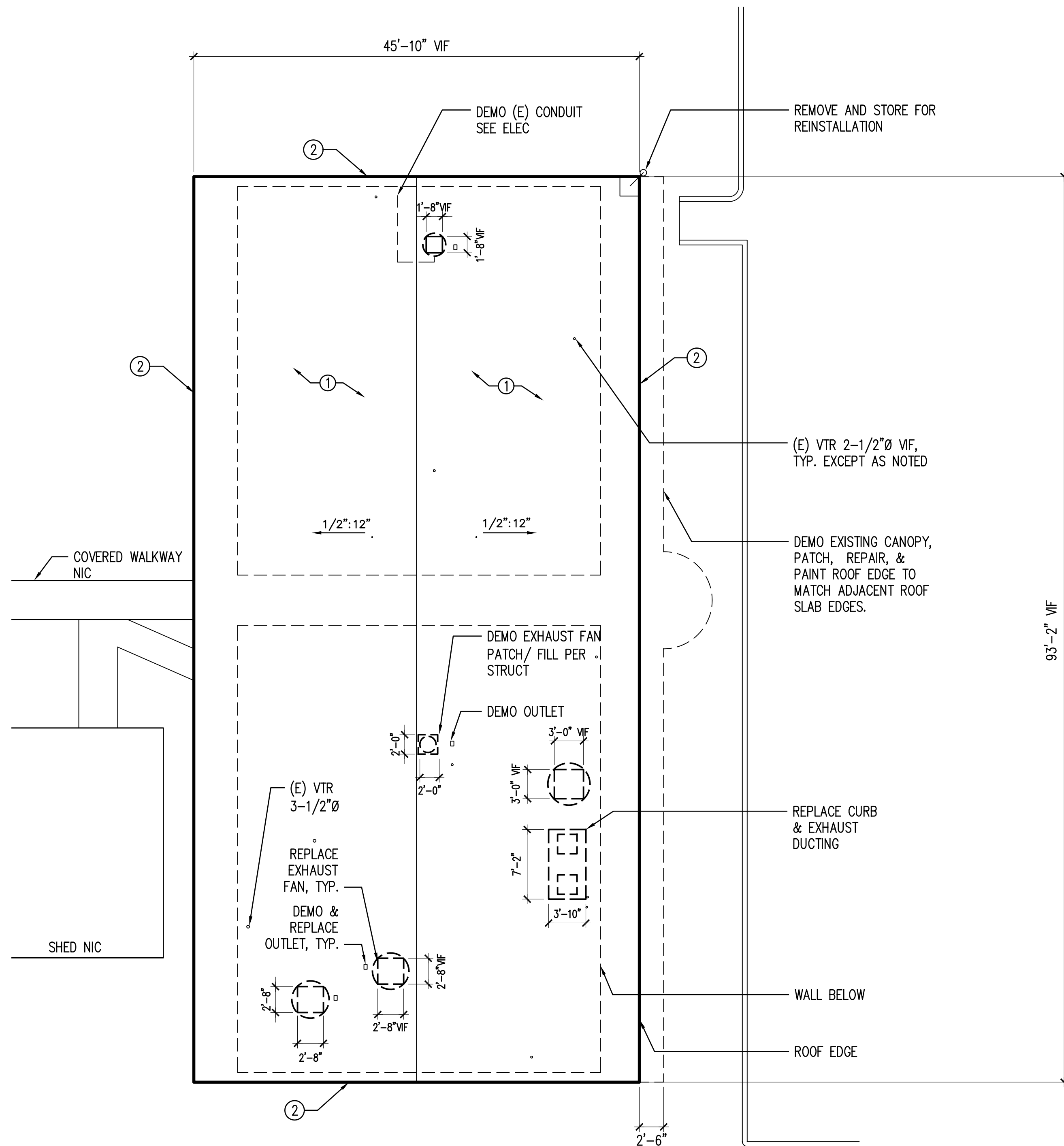
- ① REMOVE ROOFING SYSTEM TO CONCRETE ROOF DECK
- ② REMOVE EDGE FLASHING IN ITS ENTIRETY

ROOF NOTES:

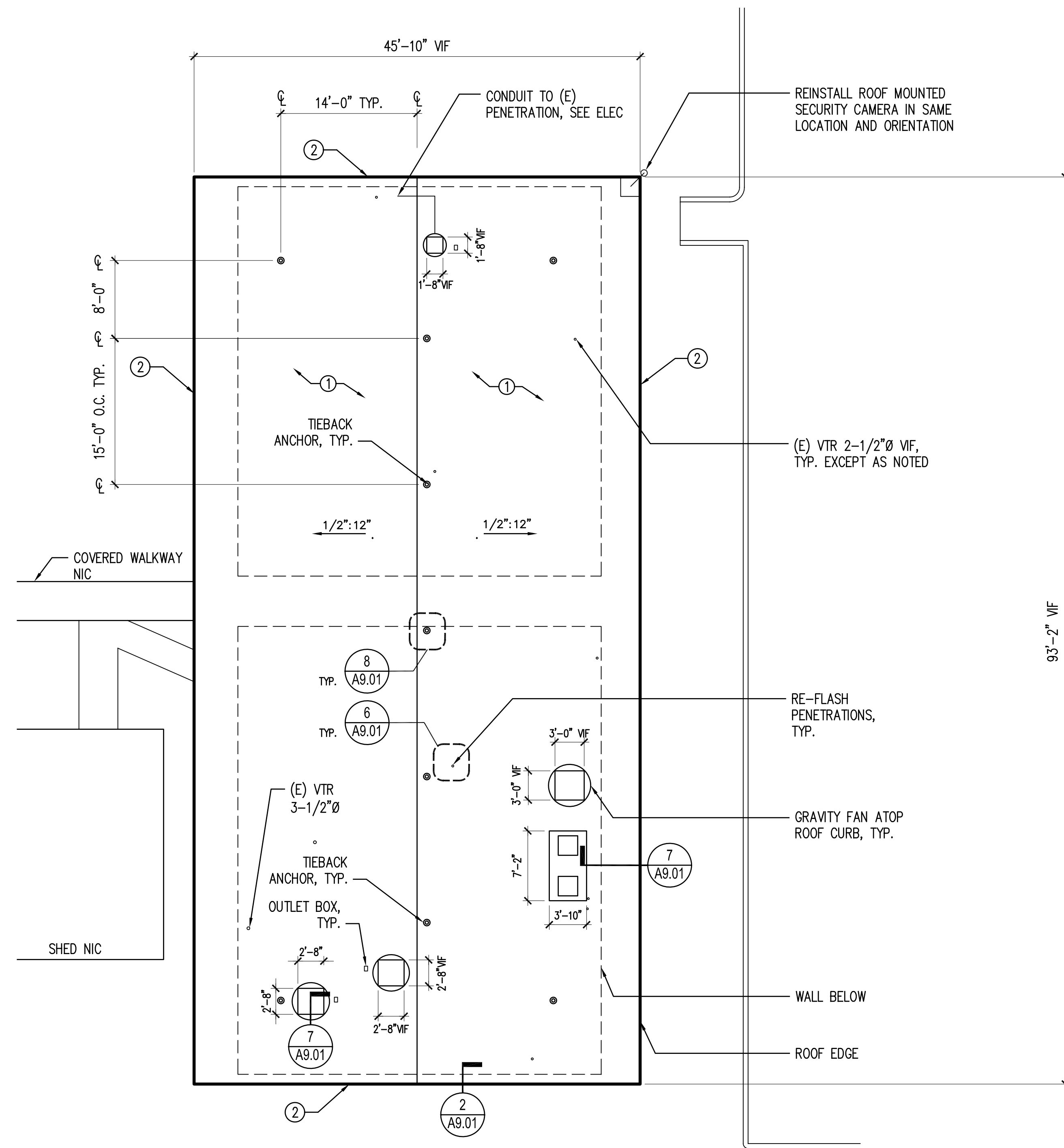
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2. FIELD VERIFY ROOF SLAB SLOPES. NOTIFY ARCHITECT IF ROOF SLAB SLOPES ARE LESS THAN THOSE NOTED.

KEY NOTES:

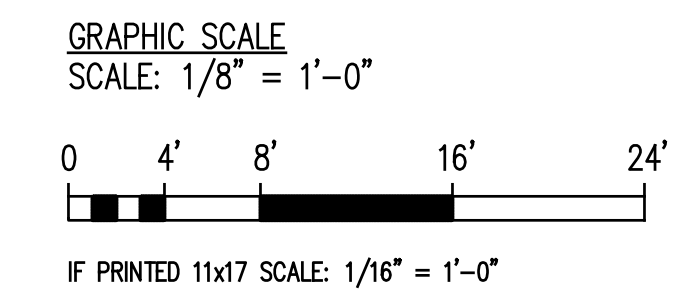
- ① INSTALL EPDM COOL ROOF MEMBRANE WITH FLASHED PENETRATIONS OVER COVER BOARD AND RIGID INSULATION ON ALL ROOF SURFACES.
- ② METAL EDGE FLASHING



**1 BLDG 1788 - DEMO ROOF PLAN**  
SCALE: 1/16" = 1' - 0"



**2 BLDG 1788 - ROOF PLAN**  
SCALE: 1/16" = 1' - 0"



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BLDG 1788 ROOF AND DEMO PLAN

STATE OF HAWAII  
FACILITY MANAGEMENT OFFICE

SCALE: 1/8" = 1'-0"

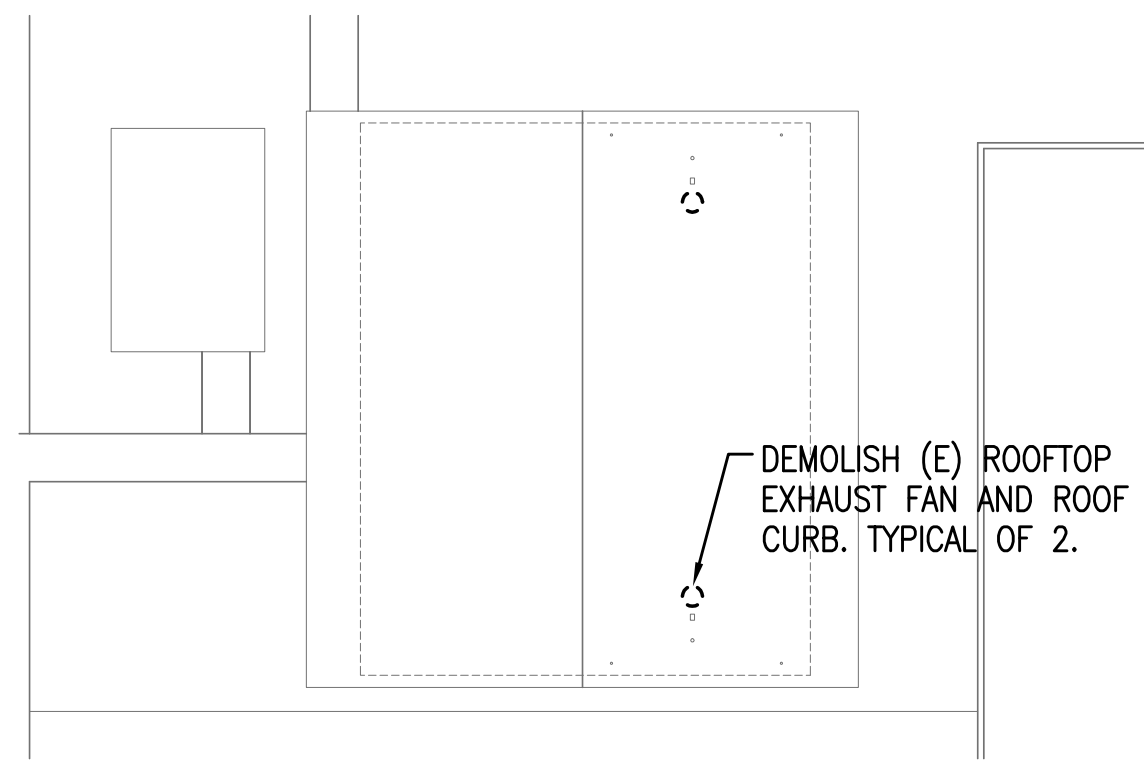
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SHEET 4 OF 9

**A1.02**



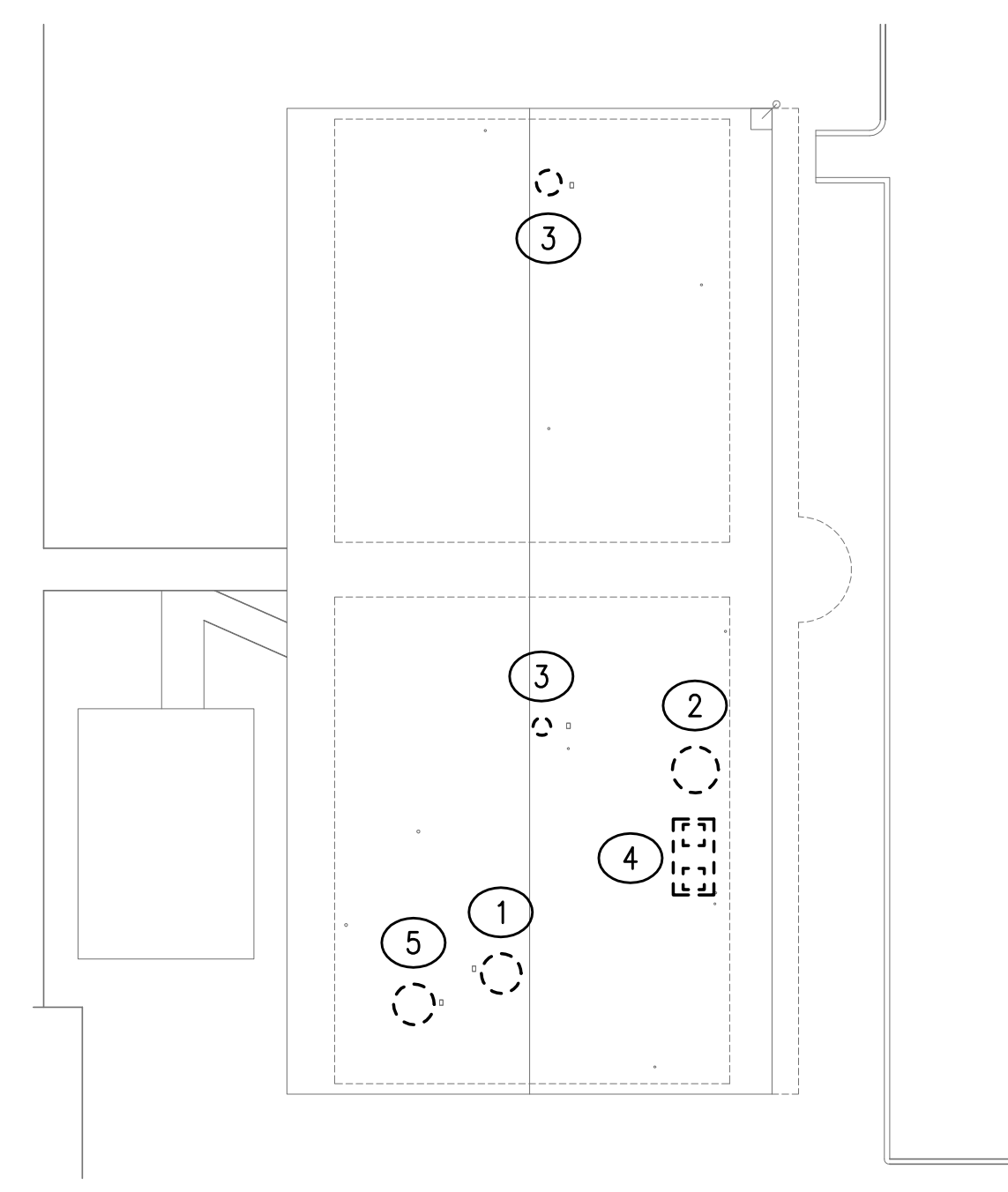




**1 BLDG 1785 ROOF PLAN - DEMOLITION**  
1/16" = 1'-0"

**GENERAL NOTES**

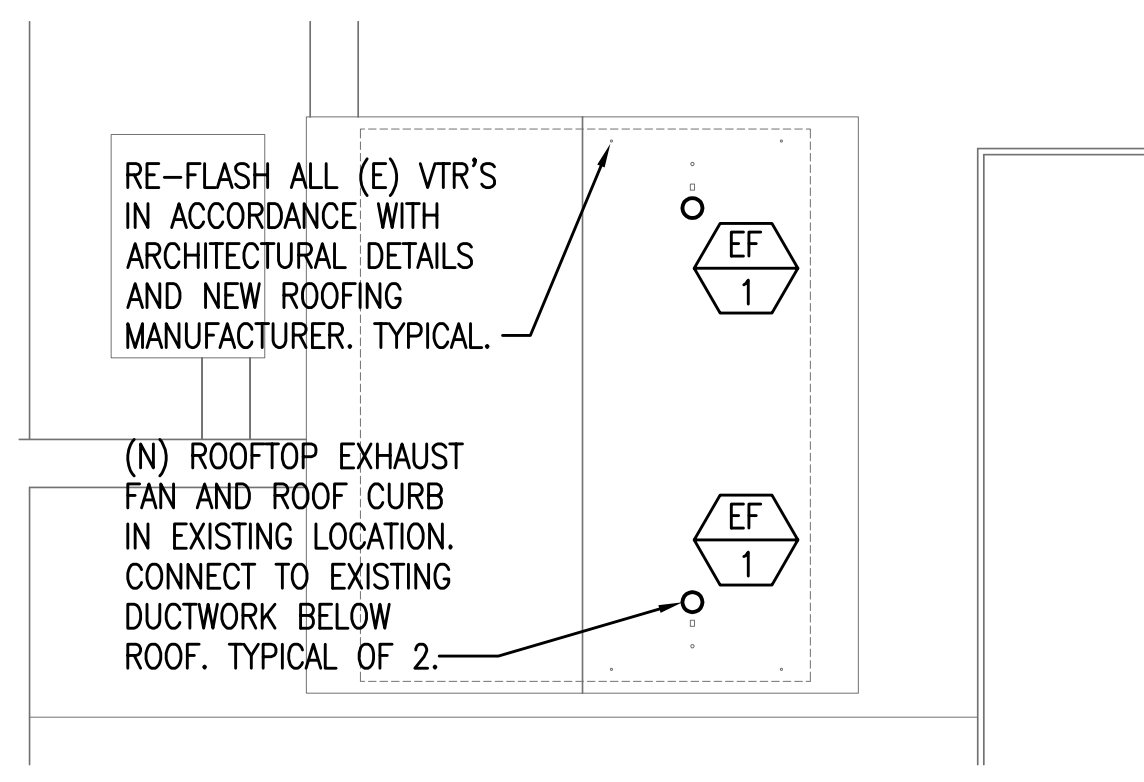
1. ALL FANS AND VENTILATORS WILL BE INSTALLED IN EXISTING OPENINGS. THERE IS FLEXIBILITY IN CONTRACTOR SELECTION OF FAN SIZES IF IT CAN MATCH EXISTING OPENING BETTER.



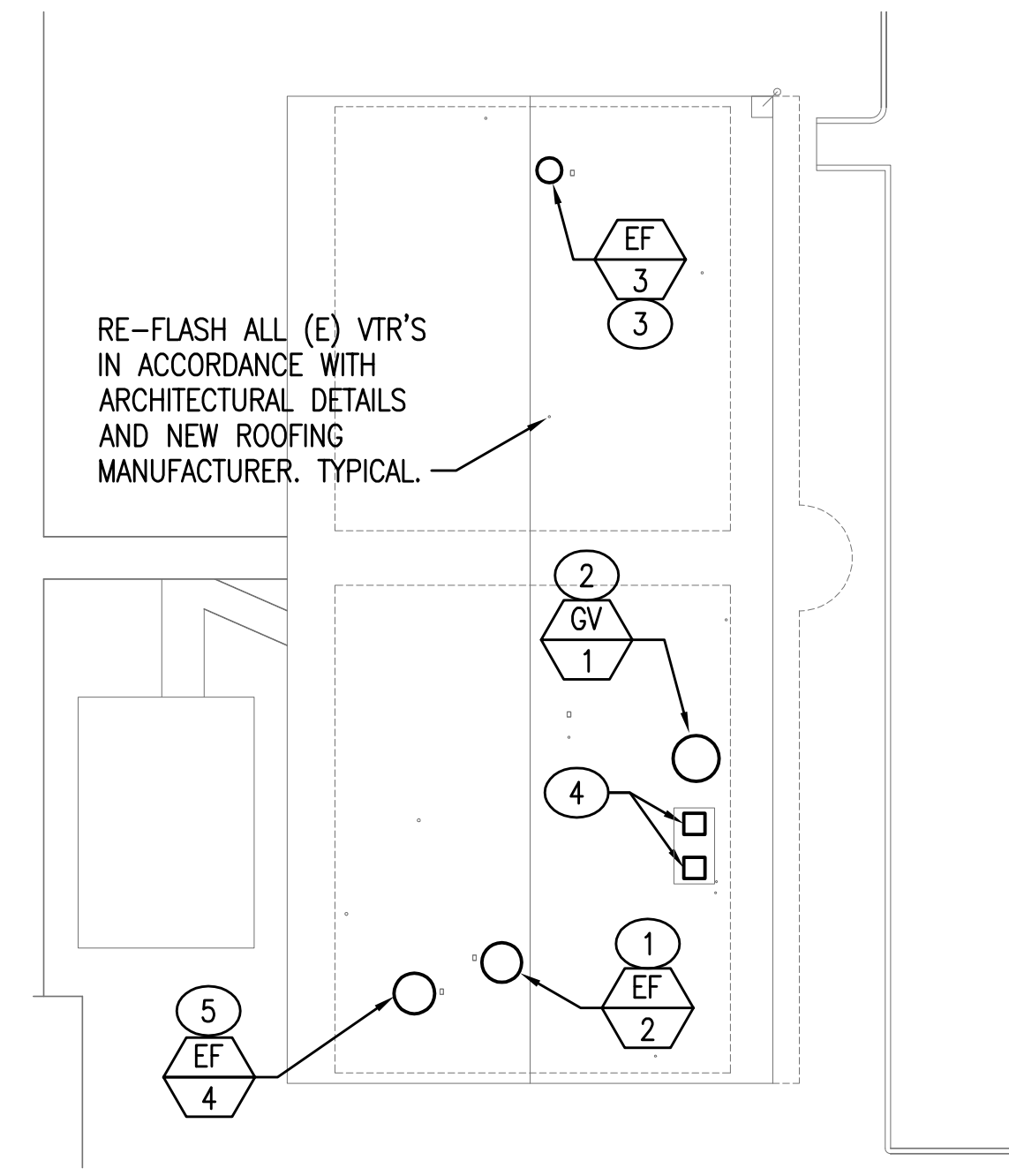
**3 BLDG 1788 ROOF PLAN - DEMOLITION**  
1/16" = 1'-0"

**KEYNOTES**

- 1 DEMOLISH (E) CLOTHES DRYER EXHAUST FAN AND ROOF CURB.
- 2 DEMOLISH (E) GRAVITY INTAKE HOOD AND ROOF CURB,
- 3 DEMOLISH (E) EXHAUST FAN AND ROOF CURB.
- 4 DEMOLISH (E) WATER HEATER GAS FLUES AND ROOF CURB.
- 5 DEMOLISH (E) BOILER ROOM VENTILATION FAN



**2 BLDG 1785 ROOF PLAN - RENOVATION**  
1/16" = 1'-0"



**4 BLDG 1788 ROOF PLAN - RENOVATION**  
1/16" = 1'-0"

**KEYNOTES**

- 1 (N) CLOTHES DRYER EXHAUST FAN AND ROOF CURB IN EXISTING LOCATION.
- 2 (N) GRAVITY INTAKE HOOD AND ROOF CURB IN EXISTING LOCATION.
- 3 (N) EXHAUST FAN AND ROOF CURB IN EXISTING LOCATION.
- 4 (N) WATER HEATER GAS FLUES AND ROOF CURB IN EXISTING LOCATION. MATCH SIZE AND MATERIAL TO EXISTING. FLUE TO BE COMPATIBLE WITH EXISTING GAS WATER HEATER A.O. SMITH MODEL BTR 400A 119 390,000 BTUH. PROVIDE VENT CAP ON TOP AND EXTEND 2' ABOVE ROOF. PROVIDE FLASHING AND STORM COLLAR, REFER TO ARCH PLANS FOR FLASHING DETAILS.
- 5 (N) EXHAUST FAN ON ROOF. TIE TO THERMOSTAT MOUNTED IN BOILER ROOM. SET INITIAL AT 80F (ADJ.)

1132 Bishop Street Suite 1850  
Honolulu Hawaii 96813 USA  
Telephone 808 536 1737  
Facsimile 808 537 5829  
honolulu@wspgroup.com

KEVIN T. LUOMA  
LICENSED PROFESSIONAL ENGINEER  
No. 13191-M  
HAWAII, U.S.A.  
Exp 4/30/2016

SYMBOL	DESCRIPTION	DATE	APPROVED

DEPARTMENT OF DEFENSE  
HAWAII ARMY NATIONAL GUARD  
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BLDG 1785 & 1788 ROOF PLANS

STATE OF HAWAII  
FACILITY MANAGEMENT OFFICE

SCALE:

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SHEET OF

M1.01





