DESIGN CRITERIA:

PROJECT NAME: **VANGUARD MODULAR BUILDINGS - V3278-1**
BUILDING SQ. FOOTAGE: 2319 SQ. FT.

2006 MEC
2006 IBC
2006 IMC
2006 IFC
2006 IECC
ANSI A117.1-2003

USE GROUP: B
CONSTRUCTION TYPE: IBC: V-B
OCCUPANT LOAD: 23
PERMISSIBLE GAS TYPE: ☐LP ☐NATURAL ☒N/A

DESIGN LOADS:

ROOF LIVE LOAD: **30 PSF**
FLOOR LIVE LOAD: 50 PSF
100 PSF @ CORRIDORS
CONC. FLOOR LIVE LOAD: 2000 LBS
WIND LOAD: **(130 MPH 3-SEC GUST)**
EXPOSURE: **B**
SEISMIC DESIGN CATEGORY B

SPECIAL CONDITIONS AND / OR LIMITATIONS:

1. HANDICAP ACCESS & SIGNAGE TO BE PROVIDED AS REQUIRED BY OTHERS AS APPLICABLE.
2. THE BUILDING IS TO BE LOCATED PER THE REQUIREMENTS OF TABLE 602 OF THE 2006 IBC
3. FIRE EXTINGUISHER(S) SHALL BE INSTALLED ON-SITE BY OTHERS.
4. ANY REQUIRED ALARM SYSTEM SHALL BE INSTALLED ON-SITE BY OTHERS.
5. ANY REQUIRED FLOOR DRAIN FOR THE RESTROOM SHALL BE INSTALLED ON-SITE BY OTHERS.
6. ANY REQUIRED 18" VERTICAL GRAB BAR SHALL BE & SUPPLIED INSTALLED ON-SITE BY OTHERS.
7. ANY REQUIRED EXTERIOR EMERGENCY LIGHTING SHALL BE INSTALLED ON-SITE BY OTHERS.

FOUNDATION NOTES:

1. FOUNDATION AND ANCHORING ARE SUBJECT TO ACCEPTANCE AND INSPECTION BY LOCAL AUTHORITY HAVING JURISDICTION.
2. TIE-DOWN ANCHORING: SEE SHEET S-2
3. CRAWL SPACE VENTILATION TO BE PROVIDED BY OTHERS ON-SITE PER 1203.3.1 OF THE 2006 IBC

SCOPE OF WORK

NOT INCLUDED IN THE SCOPE OF WORK:
1. UTILITIES AND UTILITY CONNECTIONS.
2. REQUIRED CONCRETE (DRIVEWAY, SIDEWALK, SLABS, FOOTINGS, ETC).
3. SITE PREPARATION.
4. TAX OF ANY KIND.
5. BUILDING PERMITS.

SITE WORK
1. OWNER IS TO EXAMINE THE SITE AND SHALL VERIFY ALL EXISTING CONDITIONS. NO PROVISION FOR SITE WORK HAS BEEN INCLUDED. IT IS PRESUMED THAT THE SITE WILL PROVIDE CLEAR ACCESS FOR TRUCKS AND MODULARS.
2. ALL ELECTRICAL, PLUMBING, SEWER & GAS SERVICE CONNECTIONS AND ALL CONCRETE WORK AT THE SITE, TO INCLUDE POURED PIERS, FOUNDATIONS, SLABS, SIDEWALKS, DRIVEWAYS OF WHATEVER KIND ARE THE RESPONSIBILITY OF THE OWNER.

IDENTIFICATION:

STATE DECAL: **PPE DECAL AND DATA PLATE PLACED IN PANEL BOX**

DECAL: **VANGUARD MODULAR BUILDINGS [NE.]**

FRAME / CHASSIS:

OUTRIGGERS: 48" O.C.
CROSSMEMBERS: 48" O.C.
BEAM: 12-1/2" JR. I-BEAM (99-1/2" CENTERS)
HITCH: DETACHABLE HITCH
AXLES: FIVE W/ NEW BRAKES ON THREE AXLES
TIRES: F (12-PLY)
FRAME: MEDIUM

FLOOR:

BOTTOM BOARD: ROLL POLYETHYLENE FIBER MESH
INSULATION: **R-22 UNFACED (R-11 + R-11)**
JOISTS: 2x8 No. 2 SYP OR BTR. AT 16" O.C.
12" O.C. IN CORRIDORS
SIDEBAND JOISTS: DOUBLE 2x8 SYP No 2 OR EQUAL
DECKING: 3/4" T&G EDGE GOLD
FLOOR COVER: 1/8" TILE **COLOR: 51899**
26oz. CARPET **COLOR: 30552 Graveyard**
COVE BASE: 4" VINYL **COLOR: 84196**

EXTERIOR WALLS:

SIDEWALL HEIGHT: 8'-6" MIN.
STUDS: 2x6 No. 2 SPF OR BTR AT 16" O.C.
BOTTOM PLATE: SNGL 2x6 SPF No. 3 OR BTR
TOP PLATE: DBL 2x6 SPF No. 3 OR BTR
HEADERS: TRIPLE 2x6 WITH 1/2" PLYWOOD FILLER
FIRE BLOCKS: 2x MIN. AT CLG LINE AS REQ'D.
INSULATION: **R-19 FACED**
SHEATHING: TYVEC HOUSE WRAP OR EQUAL OVER 3/8" CDX PLYWOOD
SIDING: SMART LAP SIDING TO BE PROVIDED & INSTALLED ON-SITE BY OTHERS. ARMADALE 6252KT
EXT TRIM: 4" SMART TRIM – TOP, BOTTOM, WINDOWS, DOORS, & CORNERS
SKIRTING: **T.B.D.**

INTERIOR WALLS:

WALL HEIGHT: FULL HEIGHT
STUDS: 2x4 SPF No. 2 OR BTR AT 16" O.C.
2x4 SYP No. 2 @ COLUMNS
BOTTOM PLATE: SNGL 2x4 SPF No. 3 OR BTR
TOP PLATE: DBL 2x4 SPF No. 3 OR BTR
HEADERS: SINGLE 2x4 FLAT
FIRE BLOCKS: 2x MIN. AT CLG LINE AS REQ'D.
COVERING: 1/2" V.C.G. **COLOR: RACE SUITE WHITE**
5/8" V.C.G. @ JANITOR CLOSET ONLY.
(JANITOR CLOSET IS 1-HR. FIRE RATED)
(2) WALLS IN COMBI. RM. TO HAVE 3/4" PLYWOOD FIRE RATED PLYWOOD PAINTED TO MATCH V.C.G.
TRIM: STD. V.C.G.
FRP 4' TALL – ALL WALLS IN R.R.'S & JANITOR w/WHITE
INSULATION: R-11 UNFACED IN ALL INTERIOR WALLS

WINDOWS:

SIZE/TYPE 1: [12] 3/0 X 4/0 V.S. VINYL/LOW E DUAL INSULATED
BRAND: H-R
MISC: [12] SETS OF 35" ALUMN MINIBLINDS **ALABASTER**
ALL WINDOWS TO BE DUAL HUNG TYPE

DOORS:

IT CLOSET: DEAD BOLT & LEVER LOCK

EXTERIOR: [02] 36"x80" 18GA STEELCRAFT W/ 16GA FRAME 6x27 SAFETY PANE, & 1-1/2" PR BALL BEARING HINGES
COLOR:

EXTERIOR HARDWARE: **GRADE 1 "TELL"**
[02] PANIC / PULL
[02] RIM CYLINDER W/ 7-PIN IC CORES
BEST COMPATABLE INTERCHANGABLE CORES
[02] H.D. HYD. CLOSER (GRADE 2)

INTERIOR: [10] 36"x80" MOHAWK – SOLID CORE
[01] 36"x80" 18GA STEELCRAFT W/ 16GA FRAME NO SAFETY PANE (NON-RESIDENTIAL) (WELDED FRAME PAINTED BRONZE)

INTERIOR HARDWARE: **GRADE 1 "TELL"**
[09] LOCKSETS (**LEVERS**)
[02] PRIVACY @ R.R.'S
[02] HYD. CLOSERS @ R.R'S
[01] DOOR W/ 90 MIN. LABEL @ JANITOR
[03] – FRAME. (BRONZE STEEL)

MISC: [11] FLOOR MTD. DOOR STOPS

ROOF:

RAFTERS: 2x8 #2 SYP. OR BTR. @ 16" O.C.
RIM MBR: SNGL 2x8 SYP #2
RIDGE BEAM: 2 & 3 LAYER – 32" HEIGHT & 74' LENGTH
CEILING: 2'x4' ACOUSTIC TILE, LAYIN @ 8'-0" A.F.F.
DBL 9/28" TYPE X GYP INSTALLED ON UNDER SIDE OF RAFTERS IN JANITOR CLOSET ONLY
INSULATION: R-30C UNFACED
SHEATHING: 7/16" FR. DECK
ROOFING: .045 (BLACK) EPDM (UL-R13850)
(.25 IN 12 PITCH)
PARAPET: 11" HEIGHT ALONG SIDES & AT ENDS OF BUILDINGS W/ SCUPPERS & CRICKETS
SHIPLOOSE COLLECTION BOXES & DOWNSPOUTS

ELECTRICAL:

SERVICE: 120/208V THREE PHASE
LOAD CENTER: [02] 100 AMP, EXT. MOUNT LOAD CTR.
NEMA 3R MODEL: CUTLER HAMMER
[01] PANEL IS 30 SPACE
ENTRANCE: 1-1/2" @ 100A & 2" @ 200A – STUB-DN
WIRING: EMT W/ #12 WIRE & MC CABLE FIXTURE WHIPS
LIGHTS: [02] 2x4 T-8 U TUBE FLOURESCENT TROFFERS W/ DIFFUSED LENS
[05] 4ft T-8 2 TUBE FLOURESCENT TROFFERS W/ DIFFUSED LENS
[16] 4ft T-8 4 TUBE FLOURESCENT TROFFERS W/ DIFFUSED LENS
[02] PORCH LT. W/PHOTO-CELL FLUORESCENT
[02] EMERGENCY/EXIT LIGHT W/ BATTERY BACKUP
[03] EXIT LIGHT W/ BATTERY BACKUP
[02] EMERGENCY LIGHT W/ BATTERY BACKUP

FANS: [03] 80CFM EXHAUST FAN

RECEPTS: [47] STD. 120V QUAD RECEPTACLES **IVORY**
[01] GFI 120V DUPLEX RECEPTACLES **IVORY**
[03] GFI 120V QUAD RECEPTACLES
[05] DEDICATED 120V DUPLEX RECEPTACLES
[01] W.P. EXT. GFCI 120V RECEPTACLE
[01] 120V GFCI UNDER FLOOR HEAT TAPE RECEP

SWITCHES: SEE SHEET E-1

J-BOXES: [19] 4x4x2 W/ 3/4" ENT STUBBED ABOVE CEILING
[07] 4x4x2 EMPTY BOX W/ 3/4" ENT STUBBED ABOVE CEILING (FUTURE FIRE ALARM)
[01] WIRED J-BOX (FUTURE FACP)

NOTE: THE GROUNDING ON-SITE IS TO BE IN ACCORDANCE WITH NEC 250.50.

PLUMBING:

WATER SUPPLY: TYPE 'L' COPPER
WASTE: PVC SCHEDULE 40 [MULTIPLE DROPS]
WATER HEATER: [01] 10 GALLON
WATER CLOSET: [02] H.C.AP ELONGATED BOWL W/ TANK
LAVATORY: [02] 19"x17" WALL MTD. AT HANDICAP HT. W/ DUAL LEVER FAUCET. INSULATE HOT SUPPLY AND DRAIN TAILPIECE.
SINKS: [01] 33"X19" DBL. BOWL SINK MTD. IN C.TOP @ H.CAP HT. W/ 8" SWING SPOUT FAUCET. INSULATE HOT SUPPLY AND DRAIN TAILPIECE
[01] 24"x24" FLOOR MTD. FIAT MOP SINK W/ WALL MTD. FAUCET & MOP BRACKET
MISC: INSTALL 2-SETS OF S.S. GRAB BARS
[02] T.P. HOLDERS, [02] FRAMED MIRRORS
[02] FROST-PROOF HOSE BIB

DRINKING FOUNTAIN SHALL BE AVAILABLE ON-SITE OR BE INSTALLED BY OTHER AS REQUIRED BY LOCAL OFFICIALS.
ALL FIXTURE MOUNTING HEIGHTS PER ANSI A117.1

HVAC:

HVAC: [02] 4-TON WALL MTD. WITH 10 KW HEAT STRIP (BARD – GRAY)
MODEL#: WA48A10XXX4
SWITCH JUMPER TO 208V
THERMOSTAT: [02] PROGRAMMABLE
DUCTS: FIBERGLASS (R-6)
SUPPLY: 24"x24" STD. (NON-ADJUSTABLE)
RETURN-AIR: ABOVE PLENUM WALL W/ JUMP DUCTS & FLEX
NOTE: FRESH AIR VENTILATION IS PROVIDED THRU MANUAL AIR DAMPER IN THE HVAC SYSTEM.

FURNITURE OR MISC:

COUNTER TOP: 9.5 L.F. POST FORMED ~~FROSTY WHITE~~ 6653-60 NATURAL LEGACY
BASE CABINET: [01] B36, [01] B39, [01] 4"x36" APRON
UPPER CABINET: [02] W3630, [01] W3915, [01] W3930
MISC: [04] DF ABC SEMI-RECESSED FIRE EXTINGUISHERS MOUNTED IN CABINET

DRAWING INDEX:

COVER SHEET / SPECIFICATIONS	A-1
ENERGY DESIGN INFORMATION	A-1.1
FLOOR PLAN	A-2
CABINET ELEVATION	A-2.1
CROSS-SECTION	A-3
PARAPET CONSTRUCTION	A-4
CRICKET/SCUPPER LCTN'S	A-5
HVAC LAYOUT	M-1
ELECTRICAL	E-1
PANEL BOX & ELEC. CALCS.	E-1.1
PLUMBING – DRAIN	P-1
PLUMBING – WATER	P-2
RIDGE BEAM	S-1
BLOCKING & TIEDOWN PLAN	S-2
HEAT LOSS CALCULATIONS	SEE ATTACHED

LTR	REVISION	BY	DATE

DRAWN BY: M.L.S. | DATE: 6/24/09 | SCALE: N.T.S. | PROJECT: VANGUARD MODULAR BUILDINGS | DWG. NO. V3278-1 | SHEET A-1
TITLE: COVER SHEET / SPECIFICATIONS

MARK STEELE, P.E.
5139 N. TOM MURRAY AVE.
GLENDALE, AZ. 85301 P/F: 602.385.2173
832 EAST WALNUT
GARLAND, TX 75040
P: 972.276.7626 / F: 972.526.0457

ENERGY DESIGN INFORMATION:

CLIMATE ZONE: 5a window and glazed door area 10 percent or less
HDD [HEATING DEGREE DAYS]: 6300

R-VALUES TO COMPLY WITH TABLE: 502.2(1)
ACTUAL INSULATION R-VALUES IN BUILDING:
CEILING: ALL WOOD JOIST / TRUSS – R-30C
FLOOR: ALL WOOD JOIST / TRUSS – R-22
WALLS: WOOD FRAME, ANY SPACING – R-19

WINDOW U-FACTOR: 0.54
WINDOW SHGC: 0.32

GLASS DOOR U-FACTOR: 0.00
GLASS DOOR SHGC: 0.00

SOLID DOOR U-FACTOR: 0.50

SWITCHING SCHEMES SHALL BE PER ELECTRICAL PLAN
LIGHT FIXTURES: 24" U-TUBE T-8 W/ ELEC. BALLAST AT 30 WATTS
48" 2-TUBE T-8 W/ ELEC. BALLAST AT 61 WATTS
48" 4-TUBE T-8 W/ ELEC. BALLAST AT 122 WATTS
PORCH LIGHT FLUORESCENT W/ ELEC. BALLAST AT 13 WATTS

EQUIPMENT EFFICIENCIES: HVAC MUST COMPLY WITH SECTION 503 AND TABLE 503.2.3(1) OF THE 2006 IECC [MIN. 9.7 SEER]
WATER HEATING COMPONENTS SHALL BE PER SECTION 504 AND TABLE 504.2 OF THE 2006 IECC TO BE CONSISTENT WITH THE NATIONAL APPLIANCE ENERGY CONSERVATION ACT OF 1987.

SYSTEM CONTROLS: HEATING AND COOLING SYSTEMS SHALL BE PROVIDED WITH PROGRAMMABLE THERMOSTAT PER SECTION 503.2.4.1 OF THE 2006 IECC.

OUTDOOR AIR VENTILATION RATES SHALL COMPLY WITH TABLE 403.3 OF THE 2006 IMC: 20 CFM PER PERSON

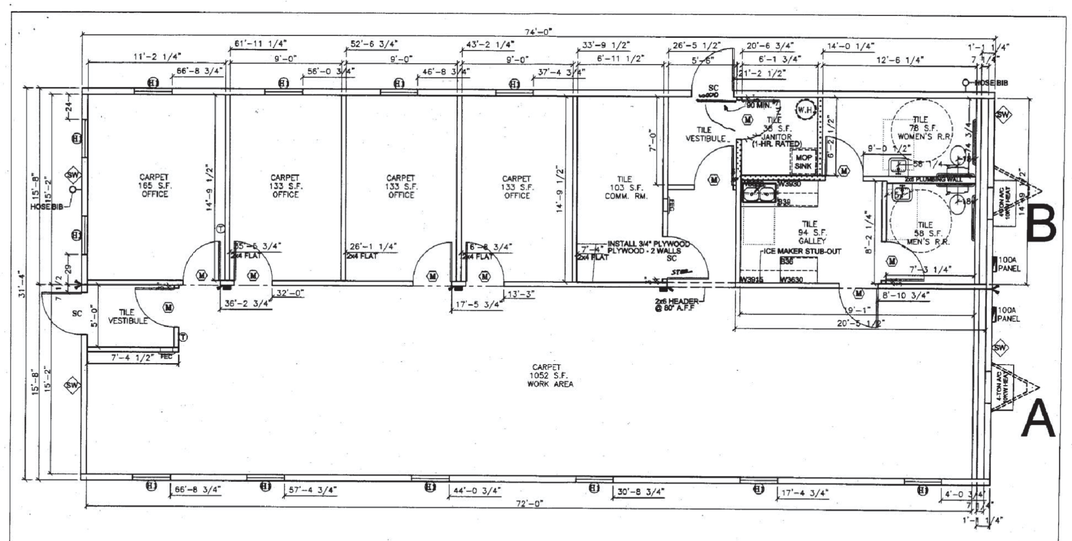
DUCT INSULATION SHALL COMPLY WITH SECTION 503.2.7 OF THE 2006 IECC:
R-5 INSULATION WHEN LOCATED IN UNCONDITIONED SPACE
R-8 INSULATION WHEN LOCATED OUTSIDE BUILDING ENVELOPE

DUCT SEALING MUST COMPLY WITH SECTION 503.2.7 OF THE 2006 IECC.

LTR	REVISION	BY	DATE

DRAWN BY: M.L.S. | DATE: 6/24/09 | SCALE: N.T.S. | PROJECT: VANGUARD MODULAR BUILDINGS | DWG. NO. V3278-1 | SHEET A-1.1
TITLE: ENERGY DESIGN INFORMATION

MARK STEELE, P.E.
5139 N. TOM MURRAY AVE.
GLENDALE, AZ. 85301 P/F: 602.385.2173
832 EAST WALNUT
GARLAND, TX 75040
P: 972.276.7626 / F: 972.526.0457



SCHEDULE \ LEGEND

KEY	ITEM DESCRIPTION	SIZE	ROUGH OPENING
SC	36" X 80" STEELCRAFT W/ 6x27 PANE	3680	40 1/2" X 82 1/2"
M	36" X 80" MOHAWK - SOLID CORE	3680	37 1/4" X 81"
H	3/0 X 4/0 H.R. V.S. VINYL/LOW E DUAL INSULATED W/ MINIBLINDS	3/0X4/0	36 1/2" X 48 1/2" UP 31 1/2"
SW	= SHEARWALL (REF. AMTEX DESIGN MANUAL: SECTION 07.101.001 FOR FASTENING)		

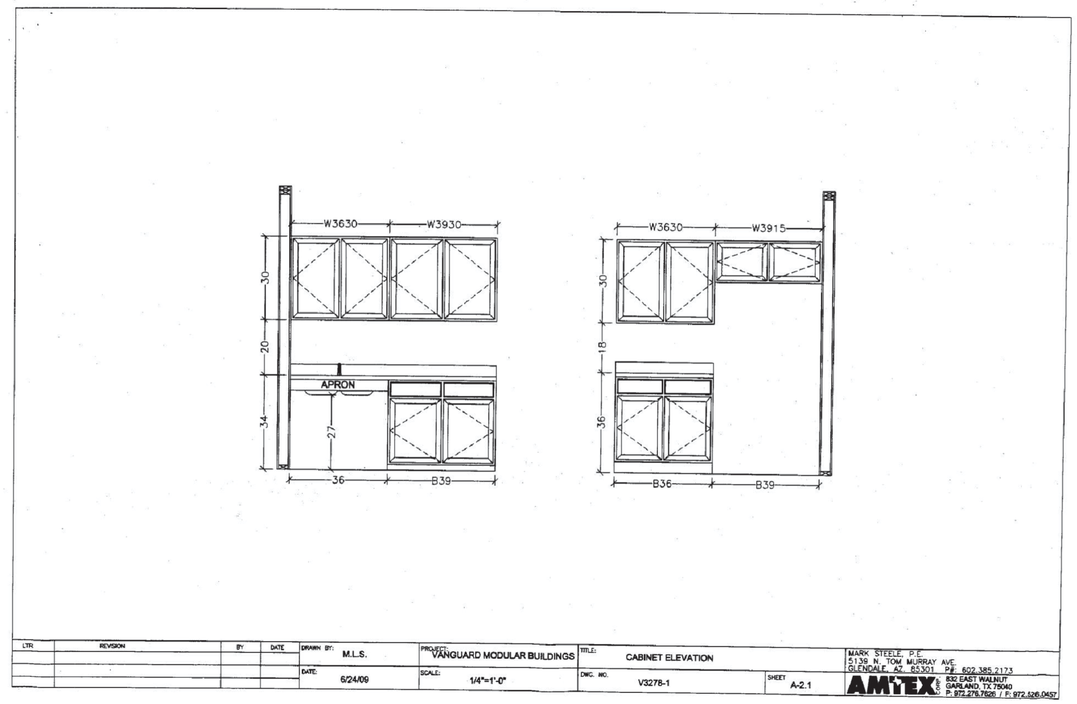
NOTE:
1. R-11 UNFACED INSULATION IN ALL INTERIOR WALLS.
2. ALL INTERIOR WALLS TO BE FULL HEIGHT.

► = MINIMUM 4-2x4 STUD SPF No. 2 COLUMNS WITH MIN. 2-20ga X 1-1/4" STRAPS FASTENED WITH MINIMUM 6-EACH No 8 SCREWS EACH END OF EACH STRAP.

LTR	REVISION	BY	DATE

DRAWN BY: M.L.S. | DATE: 6/24/09 | SCALE: 3/16"=1'-0" | PROJECT: VANGUARD MODULAR BUILDINGS | DWG. NO. V3278-1 | SHEET A-2
TITLE: FLOOR PLAN MOD B & C

MARK STEELE, P.E.
5139 N. TOM MURRAY AVE.
GLENDALE, AZ. 85301 P/F: 602.385.2173
832 EAST WALNUT
GARLAND, TX 75040
P: 972.276.7626 / F: 972.526.0457



LTR	REVISION	BY	DATE

DRAWN BY: M.L.S. | DATE: 6/24/09 | SCALE: 1/4"=1'-0" | PROJECT: VANGUARD MODULAR BUILDINGS | DWG. NO. V3278-1 | SHEET A-2.1
TITLE: CABINET ELEVATION

MARK STEELE, P.E.
5139 N. TOM MURRAY AVE.
GLENDALE, AZ. 85301 P/F: 602.385.2173
832 EAST WALNUT
GARLAND, TX 75040
P: 972.276.7626 / F: 972.526.0457

Revisions	Date

CONSULTANTS:

ARCHITECT/ENGINEERS:
LEO A DALY PLANNING ARCHITECTURE ENGINEERING INTERIORS EST. 1915
8600 Indian Hills Drive
Omaha, NE 68114-4039 USA
Tel 402-391-8111 Fax 402-391-8564

Architect Project No. 003-10121-017

Drawing Title: MANUFACTURER'S DRAWINGS SHEET 1 FOR INFORMATION ONLY
Approved: Project Director / Name
Project Title: FISHER HOUSE SITE PREP
Location: OMAHA, NE
Date: October 18, 2016 R | Checked: GAL | Drawn: JMK
Project Number: 636-CSI-100
Building Number: A, B, 3
Drawing Number: GI003 2

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

P:\003\003-10121-017\E Design 03-00-02\01 Drawings\03 General\VAFI76003.dwg October 18, 2016 - 3:07pm JMKent