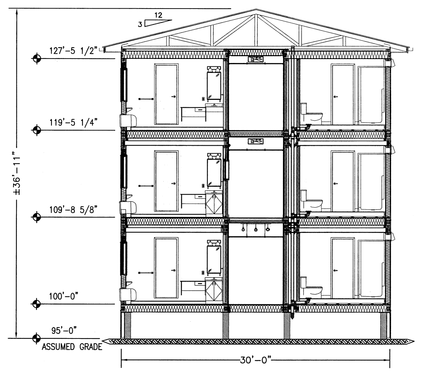
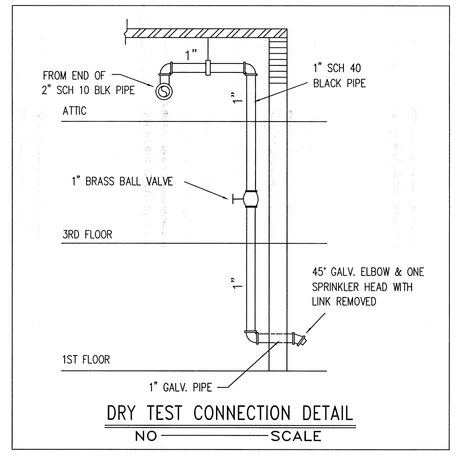


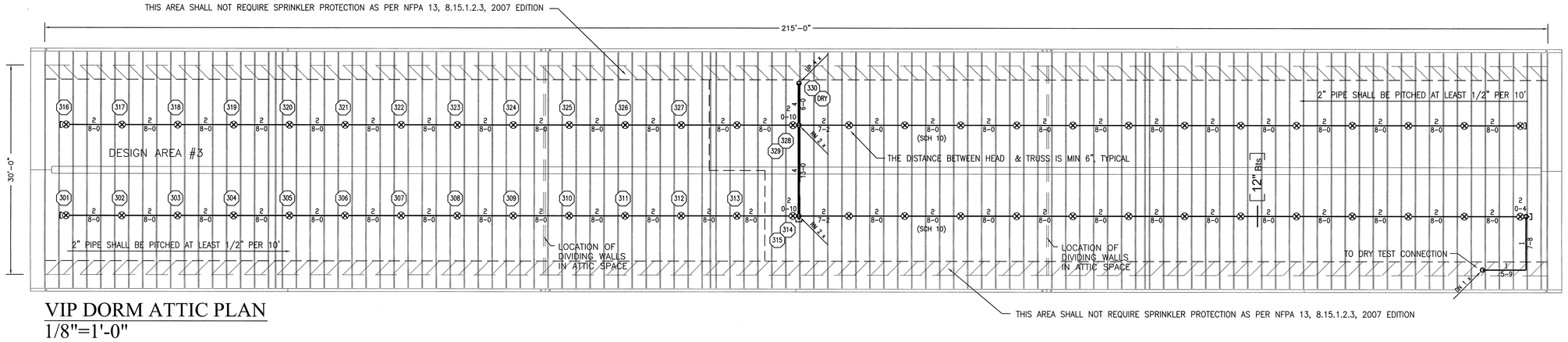

## BUILDING SECTION
1/8"=1'-0"

| Dry Volume Report: | | |
|---|---|---|
| Diameter | Volume (Gal) | Length (Feet) |
| 1 in | 0.9 | 20.0 |
| 2 in | 79.87 | 420.33 |
| 4 in | 18.5 | 25.0 |

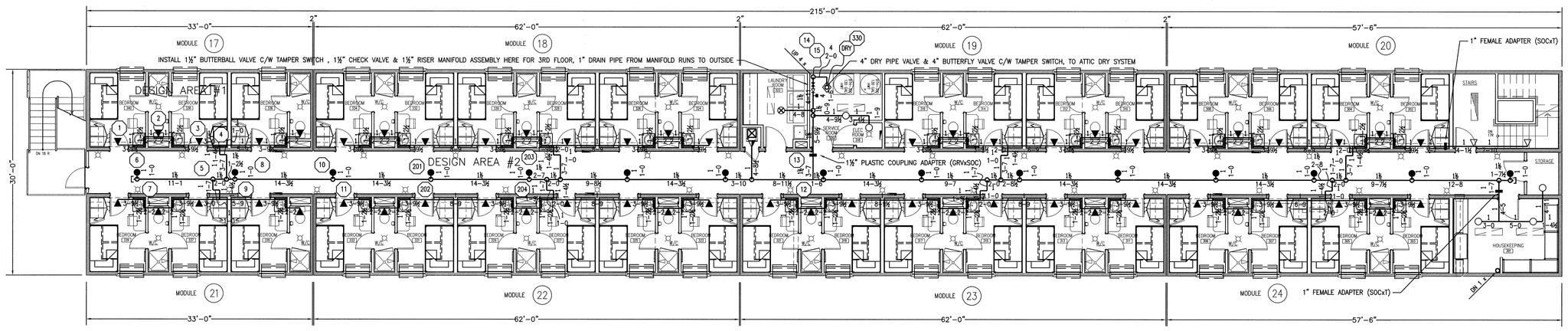
The Total Dry Volume is 99.27 U.S. Gallons



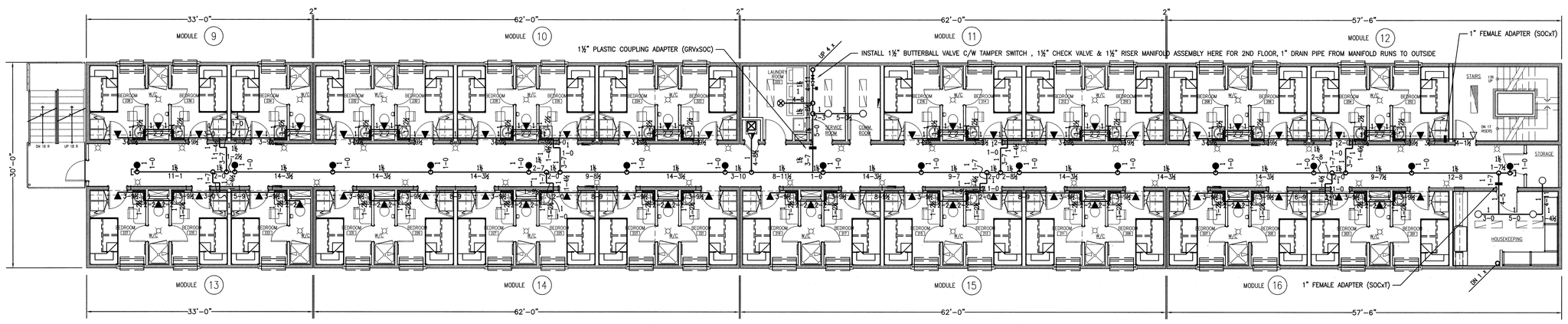

## DRY TEST CONNECTION DETAIL
NO SCALE



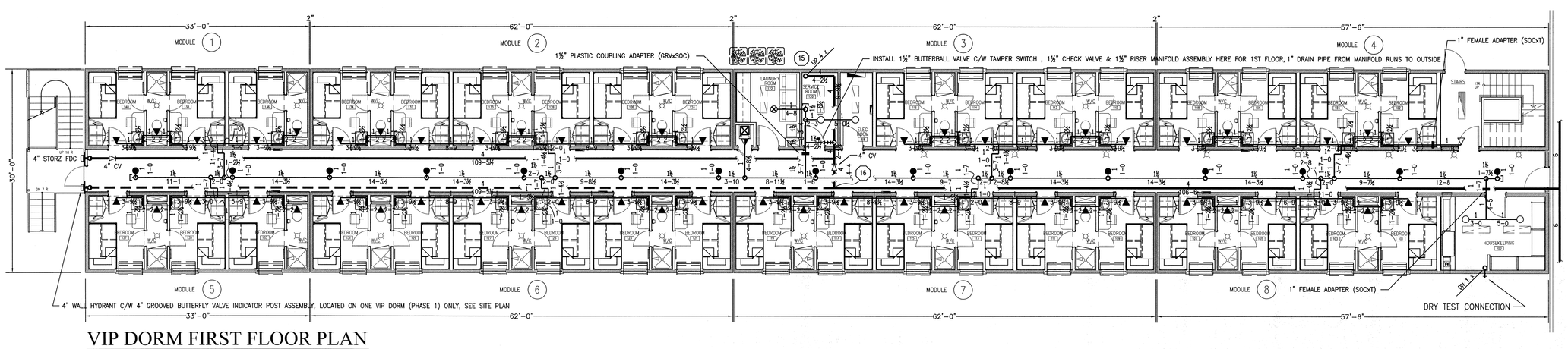

## VIP DORM ATTIC PLAN
1/8"=1'-0"




## VIP DORM THIRD FLOOR PLAN
1/8"=1'-0"




## VIP DORM SECOND FLOOR PLAN
1/8"=1'-0"




## VIP DORM FIRST FLOOR PLAN
1/8"=1'-0"

### DESIGN CRITERIA

| | |
|---|---|
| -Zone : VP DORM ATTIC | -Design Area No : 3 |
| -Occupancy : LIGHT HAZARD | |
| -Density : 0.10 usgpm/sq. ft. | -Design Area : 2535 sq. ft. |
| -Area per Sprinkler : 104 sq. ft. | -Storage Height : N/A |
| -Orifice : 1/2"ø | -"K" Factor : 5.6 |
| -Hose Allowance : INSIDE N/A usgpm | OUTSIDE 500 usgpm |
| -Number of Sprinklers Calculated : 25 | |
| -Total Demand at Base of Riser : 454.44 usgpm @ 52.7 Psi | |

FIRE PUMP: PEERLESS – 6AEP16
RATED FOR 1500 USGpm @ 110 Psi

### DESIGN CRITERIA

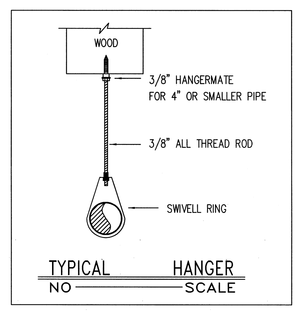
| | |
|---|---|
| -Zone : VP DORM 3RD FLOOR SUITE | -Design Area No : 1 |
| -Occupancy : LIGHT HAZARD | |
| -Density : 0.10 usgpm/sq. ft. | -Design Area : N/A |
| -Area per Sprinkler : VARIES | -Storage Height : N/A |
| -Orifice : 1/2"ø & 7/16"ø | -"K" Factor : 5.6 & 4.0 |
| -Hose Allowance : INSIDE N/A usgpm | OUTSIDE 500 usgpm |
| -Number of Sprinklers Calculated : 3 A/S IN DWELLING UNIT + 3 A/S IN CORR. | |
| -Total Demand at Base of Riser : 107.01 usgpm @ 64.8 Psi | |

FIRE PUMP: PEERLESS – 6AEP16
RATED FOR 1500 USGpm @ 110 Psi

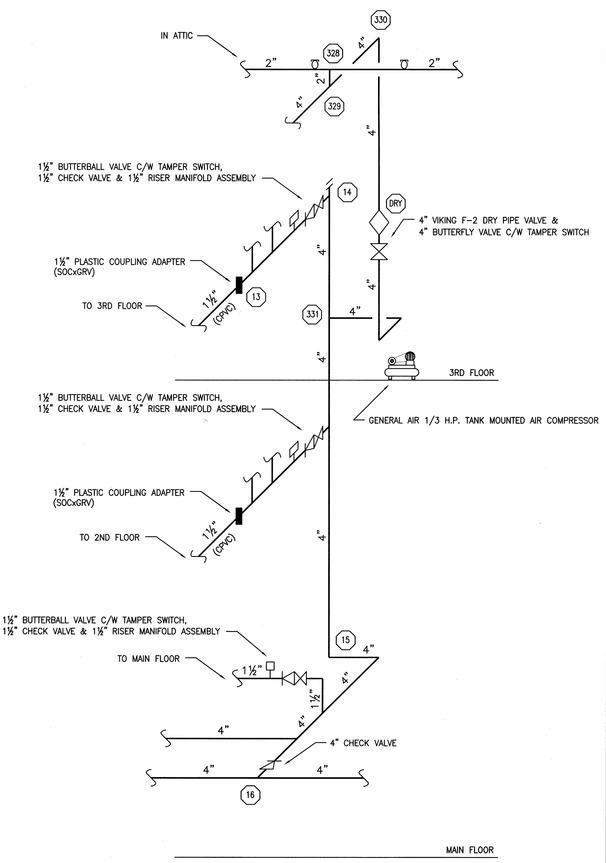
### DESIGN CRITERIA

| | |
|---|---|
| -Zone : VP DORM 3RD FLOOR CORRIDOR | -Design Area No : 2 |
| -Occupancy : LIGHT HAZARD | |
| -Density : 0.10 usgpm/sq. ft. | -Design Area : N/A |
| -Area per Sprinkler : 130 sq. ft. | -Storage Height : N/A |
| -Orifice : 1/2"ø | -"K" Factor : 5.6 |
| -Hose Allowance : INSIDE N/A usgpm | OUTSIDE 500 usgpm |
| -Number of Sprinklers Calculated : 5 | |
| -Total Demand at Base of Riser : 77.75 usgpm @ 34.9 Psi | |

FIRE PUMP: PEERLESS – 6AEP16
RATED FOR 1500 USGpm @ 110 Psi




TYPICAL HANGER
NO SCALE




## SPRINKLER SYS. IN VIP DORM SCHEMATIC
N.T.S.

## NOTES:

1. IN LAUNDRY RMS, HOUSEKEEPING, SERVICE RMS, ELEC. RMS & STAIRS OF DORMS: PIPES TO BE SCH.40 BLK. PIPES WITH BLK. C.I. SCRD. FITTINGS
2. IN CORRIDORS & DWELLING UNITS OF DORMS: PIPES TO BE CPVC PIPES
3. IN ATTIC: PIPES TO BE SCH.10 BLK. PIPE, JOINED WITH GROOVED FITTINGS

OWNERS MUST MAINTAIN SUFFICIENT HEAT (MINIMUM 5°C/41°F) THROUGHOUT THE AREAS WHERE "WET" SYSTEM ARE INSTALLED TO PREVENT FREEZING OF WATER UNLESS AN ANTI-FREEZE OR A DRY SYSTEM IS PROVIDED.

C 12 760 — INDICATES THE DISTANCE IN INCHES OR MILLIMETERS FROM THE CENTER LINE OF THE PIPE TO THE UNDERSIDE OF THE CEILING, CONCRETE SLAB OR ROOF DECK.

C 1-0 305 — INDICATES THE DISTANCE IN FEET OR MILLIMETERS FROM THE CENTER LINE OF THE PIPE TO THE FLOOR.

HYDRAULIC REFERENCE POINT

SPRINKLERS IN CENTER OF TILES — NONE ☐ 1 WAY ■ 2 WAYS ☐

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| | |
|---|---|
| A | LOCATION OF MAINS & BRANCH LINES |
| B | VERIFY PIPE SLOPE |
| C | VERIFY PIPE ELEVATION |
| D | VERIFY SPRINKLERS TYPE |
| E | VERIFY HANGERS (TYPE / LOCATION) |
| F | LOCATION & INSTALLATION OF FIRE HOSE CABINET |
| G | VERIFY PIPE DIAMETERS |
| H | G1 |
| J | G2 |
| K | G3 |

VERIFICATION CODE (ID) / DATE / FOREMAN INITIALS

KEEP THIS COPY CLEAN AND RETURN IT TO THE OFFICE AT THE END OF THE PROJECT

ALL MODIFICATIONS DONE ON SITE MUST BE SHOWN

FOREMAN SIGNATURE

DATE

| | |
|---|---|
| | EXCAVATING AND BACKFILLING |
| | UNDERGROUND WATER MAIN |
| | CITY WATER CONNECTION |
| | ELECTRICAL WIRING |
| | ELECTRICAL COMPONENTS CONNECTION |
| | FIRE HOSE CABINETS |
| | FIRE DEPARTMENT CONNECTION |
| | MAIN CONTROL VALVE |
| | AIR SUPPLY |
| | PAINTING PIPES & EQUIPMENTS (IF REQUIRED) |
| | DOMESTIC WATER CONNECTION |
| F1 | HUB DRAIN OUTLET |
| | SLEEVES, CORING AND FIRE STOPPING |
| | PORTABLE FIRE EXTINGUISHER |
| F7 | |
| F8 | |
| F9 | |
| F10 | |

D1 UNDERGROUND
- ☐ CLASS 52
- ☐ CLASS 53
- ☐ P.V.C.

D3 ABOVEGROUND - LINES
- ☐ SCH. 10
- ■ SCH. 40
- ☐ C.P.V.C.
- ☐ GALVANIZED
- ☐ D4

D5 ABOVEGROUND - MAINS
- ☐ SCH. 10
- ☐ SCH. 30
- ■ SCH. 40
- ☐ GALVANIZED
- ☐ C.P.V.C.

| DESCRIPTION | LINE | MAIN |
|---|---|---|
| TYTON JOINT | | |
| MECH. JOINT | | |
| D2 | | |
| SWIVEL RING | ■ | ■ |
| ADJUSTABLE CLEVIS | ■ | ■ |
| ALL THREAD ROD | ■ | ■ |
| COACH SCREW ROD | | |
| BEAM CLAMP "C" TYPE | | |
| CONCRETE ANCHOR | | |
| "UNISTRUT" CHANNEL | | |
| "UNISTRUT" PIPE STRAP | | |
| TRAPEZE | | |
| "U" BOLT | | |
| SEISMIC SWAY BRACING | | |
| RETAINING STRAP | | |
| HANGERMATE | | |
| E2 | | |
| E3 | | |
| E4 | | |

THREAD WALL / THREAD C.I. / THREAD GALV. / GROOVED / COPPER / FLANGED

| SYM. | C" | F° | K-FACT. | THREAD | DSN No. | MAX. O/C | MODEL | QTY. |
|---|---|---|---|---|---|---|---|---|
| ▼ | 68 | 155 | 7/16" | 1/2" | VA488 | 12' X 12' | FREEDOM WHITE RESIDENTIAL HSW | 165 |
| ■ | 68 | 155 | 1/2" | 1/2" | VA302 | 225 S.F. | WHITE PENDENT QR | 40 |
| ▽ | 68 | 155 | 1/2" | 1/2" | VA305 | 225 S.F. | CHROME HSW QR | 4 |
| ○ | 68 | 155 | 1/2" | 1/2" | VA300 | 130 S.F. | BRASS UPRIGHT QR | 14 |
| ▽ | 141 | 286 | 1/2" | 1/2" | VA305 | 130 S.F. | CHROME HSW QR | 3 |
| ◇ | 93 | 200 | 1/2" | 1/2" | VA300 | 130 S.F. | BRASS UPRIGHT QR | 57 |
| | | | | | | | TOTAL | 288 |

| SYM. | DESCRIPTION | QTY. |
|---|---|---|
| | | |

APPLICABLE CODES & STANDARDS
- ☐ N.F.P.A. 11
- ☐ N.F.P.A. 13
- ☐ N.F.P.A. 14
- ☐ N.F.P.A. 20
- ☐ N.F.P.A. 24
- ☐ N.F.P.A. 30

DESIGN ACCORDING TO
- ■ N.F.P.A.
- ☐ F.M.
- ☐ B1
- ☐ A1
- ☐ A2
- ☐ A3

| APPROVED BY | ISSUED | APPROVAL |
|---|---|---|
| | | |

PROFESSIONAL ENGINEERS ALBERTA — A. HOFFMAN — MAR 13 2014

- ■ WET
- ■ DRY
- ☐ DELUGE
- ☐ DELUGE WATER/FOAM
- ☐ FIRECYCLE
- ☐ FIREFLEX
- ☐ TOTALFAC 2
- ☐ FRACTION
- ☐ NON INTERLOCK
- ☐ SINGLE INTERLOCK
- ☐ DOUBLE INTERLOCK
- ☐ ICAF
- ☐ C1
- ☐ C2
- ☐ C3

| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| A | ISSUED FOR CLIENT REVIEW | P.W. | JAN. 23, 14 |
| B | ISSUED FOR APPROVAL | P.W. | MAR. 13, 14 |

VIKING FIRE PROTECTION INC

| | |
|---|---|
| DATE | 2014-03-13 |
| DRAWN BY | P. WU |
| CHECK BY | A. HOFFMAN |
| CONTRACT NO. | VVC05334 |
| PROJECT | CENOVUS - NARROWS LAKE CAMP |
| | NARROWS LAKE, AB |
| SECTION | VIP DORM PLAN |
| CONTRACT WITH | BRITCO |
| SCALE | 1/8"=1'-0" |
| SHEET NO. | 1 of 5 |
| DRAWING NO. | V5384SP1B |