

GENERAL NOTES FOR BUILDING:

GENERAL NOTES:

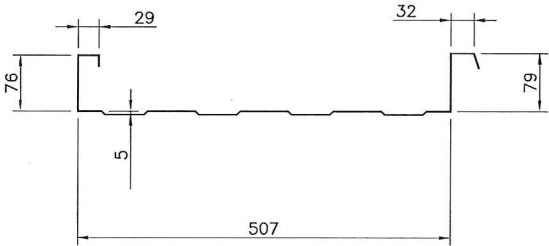
1. BUILDING PACKAGE CONFORMS TO:
- NATIONAL BUILDING CODE 2023-ALBERTA EDITION
2. GROUP F DIVISION 3 OCCUPANCY CATEGORY AS PER
NATIONAL BUILDING CODE CANADA 2020, TABLE 3.1.2.1

BUILDING IMPORTANCE CATEGORY - NORMAL

BUILDING COMPONENTS:

- EXTERIOR WALL AND ROOF PANELS:
22GA PREPAINTED GALVALUME PANELS CONFORMING TO
ASTM A792-09, WITH COATING CONFORMING TO AZ50.

SELF-FRAMING PANEL DIMENSIONS:



BUILDING NOTES:

1. MULTI OIL WELL BATTERY BUILDING SHALL BE A GABLE STYLE
SELF-FRAMING BUILDING, ERECTED ON A STEEL SKID IN OUR
YARD.
2. WALL TO CONSIST OF:
- 22GA SELF-FRAMING WALL PANELS;
- R12 (76mm) MINERAL WOOL INSULATION;
- CONTINUOUS 6MIL CERTIFIED POLY VAPOR BARRIER;
- 24GA WHITE FLUTED ALUMINUM
LINER.
3. ROOF TO CONSIST OF:
- 22GA SELF-FRAMING ROOF PANELS;
- 24GA INSULATION CLIPS 9" DEEP 24GA;
- R20 (152mm) MINERAL WOOL INSULATION;
- CONTINUOUS 6MIL CERTIFIED POLY VAPOR BARRIER;
- 24GA WHITE FLUTED ALUMINUM
LINER.
4. 1 @ FULL LENGTH ANGLE ICE RAKES
5. 1 @ FULL LENGTH EAVES TROUGH C/W GUTTER, DOWNSPOUT
AND ELBOW.
6. 1 @ 16GA 1829mm W x 2,134mm H R4 INSULATED HOLLOW
CORE DOUBLE DOOR C/W:
- 16GA DOUBLE DOOR FRAME;
- HYDRAULIC CLOSER;
- CHECK CHAIN;
- TWO (2) 610mm W x 610mm H IWG WINDOWS;
- BARREL BOLTS;
- DOREX PANIC HARDWARE;
- WEATHER STRIPPING;
- SWEEPS;
- THRESHOLD;
- 16GA DOUBLE DOOR CANOPY W/ TWO (2) 16GA VERTICAL
SUPPORT CHANNELS.

7. 1 @ 1087mm W x 500mm H ACCESS DOOR
8. HVAC

(REFER TO DATA SHEETS FOR FULL SPECS; ANY DISCREPANCY
BETWEEN THESE DRAWINGS AND DATA SHEETS, THE DATA SHEETS
SHALL BE ASSUMED CORRECT)
- 2 @ 12"W x 12"H MANUALLY OPERABLE LOUVER C/W:
- FLANGE FRAME;
- MANUAL WING NUT CONTROLLER;
- BIRD SCREEN;
- 22GA STORM HOOD.
- 1 @ 12" EXPLOSION PROOF EXHAUST FAN (120V/1PH/60HZ)
C/W:
- SHUTTER;
- BACK GUARD;
- BIRD SCREEN;
- 22GA STORM HOOD.
- 1 @ SUPPLY ONLY CATADYNE WX24x30 CATALYTIC HEATER C/W:
- 20,000 BTUH;
- NATURAL GAS CONFIG.;
- 12V START;
- THERMOSTAT APPLIANCE REGULATOR;
- SAFETY SHUT-OFFVALVE;
- WALL MOUNT BRACKET AND VENT HOOD ASSEMBLY.

ARCHITECTURAL SCHEDULES

| | | |
|---------------------------------|-----------------|---------|
| WALL (EXTERIOR) | TAN | QC-8315 |
| WALL (INTERIOR) | WHITE ALUMINUM | |
| ROOF (EXTERIOR) | METRO BROWN | QC-8228 |
| ROOF (INTERIOR) | WHITE ALUMINUM | |
| WALL FLASHINGS (EXTERIOR) | METRO BROWN | QC-8228 |
| WALL FLASHINGS (INTERIOR) | CAMBRIDGE WHITE | QC-8695 |
| ROOF FLASHINGS (SIDE AND FRONT) | METRO BROWN | QC-8228 |
| ICE RAKES | STONE GREY | QC-8305 |
| EAVESTROUGH | METRO BROWN | QC-8228 |
| DOWNSPOUTS | METRO BROWN | QC-8228 |
| DOOR FRAME | TAN METRO BROWN | QC-8228 |
| DOOR SLAB | TAN | QC-8315 |
| CANOPY | METRO BROWN | QC-8228 |

BLUESTAR ENGINEERING LTD
VENDOR APPROVAL

BLUESTAR REF: 236625

ACCEPTED. WORK MAY PROCEED. SUBMIT
WITH FINAL DOCUMENTATION

REVISE & RESUBMIT.
WORK MAY PROCEED SUBJECT TO
INCORPORATION OF CHANGES INDICATED.

CORRECT AND RESUBMIT.
WORK MAY NOT PROCEED.

FOR INFORMATION ONLY.
SUBMIT WITH FINAL DOCUMENTATION.

AS-BUILT REQUIRED

| DEPT | SIGN | DATE |
|---------|------|-------------|
| PROJECT | CL | Jul 7, 2025 |
| MECH | RA | 27-Jun-2025 |
| PROCESS | | |
| E & I | | |
| CSA | | |
| PIPING | | |
| DC | | |
| CLIENT | | |

Straight-Up Metal Buildings Ltd.

AS BUILT

MASTER COPY

APPROVED

07/11/2025 10:32:56 AM

DESIGN DATA

| | |
|------------|------------------|
| LOCATION | AB |
| LSD | 01-34-065-03 W6M |
| q-1/50 | 0.43 kPa |
| Ss | 2.2 kPa |
| St | 0.1 kPa |
| Sa(0.2,X) | 0.269 |
| Sa(0.5,X) | 0.238 |
| Sa(1.0,X) | 0.136 |
| Sa(2.0,X) | 0.0743 |
| Sa(5.0,X) | 0.042 |
| Sa(10.0,X) | 0.026 |
| PGA | - |

BUILDING WEIGHT:

APPROX. 1,633 kgs

TRIPLE SSS

FLARE KNOCKOUT DRUM BUILDING
KARR MULTI WELL OIL BATTERY

ARCHITECTURAL - FLOOR PLAN & SECTION

| | | | |
|-------|----------------|------|-----|
| SCALE | DRAWING NUMBER | VDRL | REV |
| | 25-8852-BLD-1 | | 0A |

| NO. | DATE | REVISION | DRN | CHK | ENG | APR |
|-----|-----------|------------------------|-----|-----|-----|-----|
| 0 | 06 MAY/25 | ISSUED FOR APPROVAL | MO | JV | MF | |
| 0A | 23 JUN/25 | RE-ISSUED FOR APPROVAL | AG | JV | MF | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

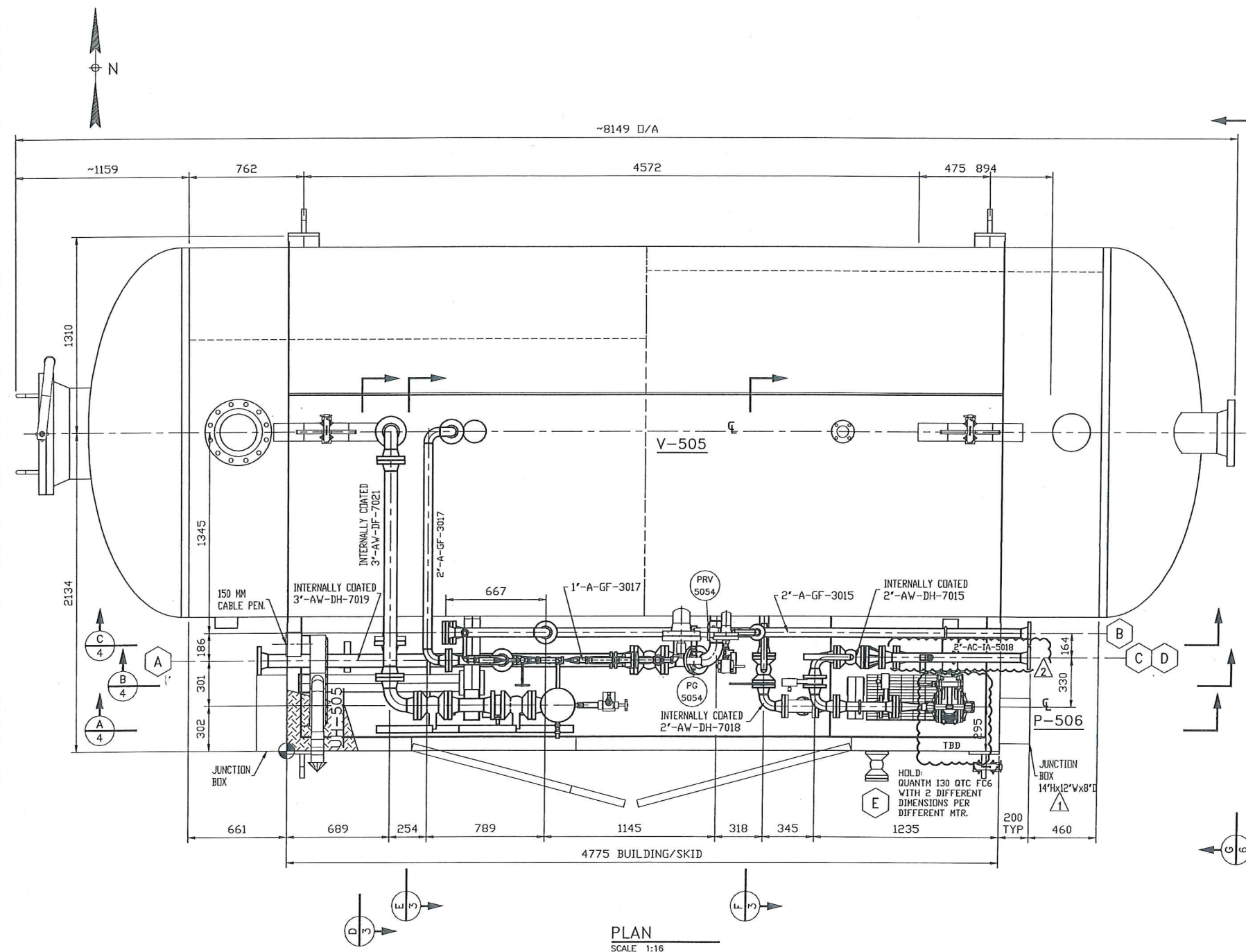
CLIENT/VENDOR

CONSULTANT LOGO

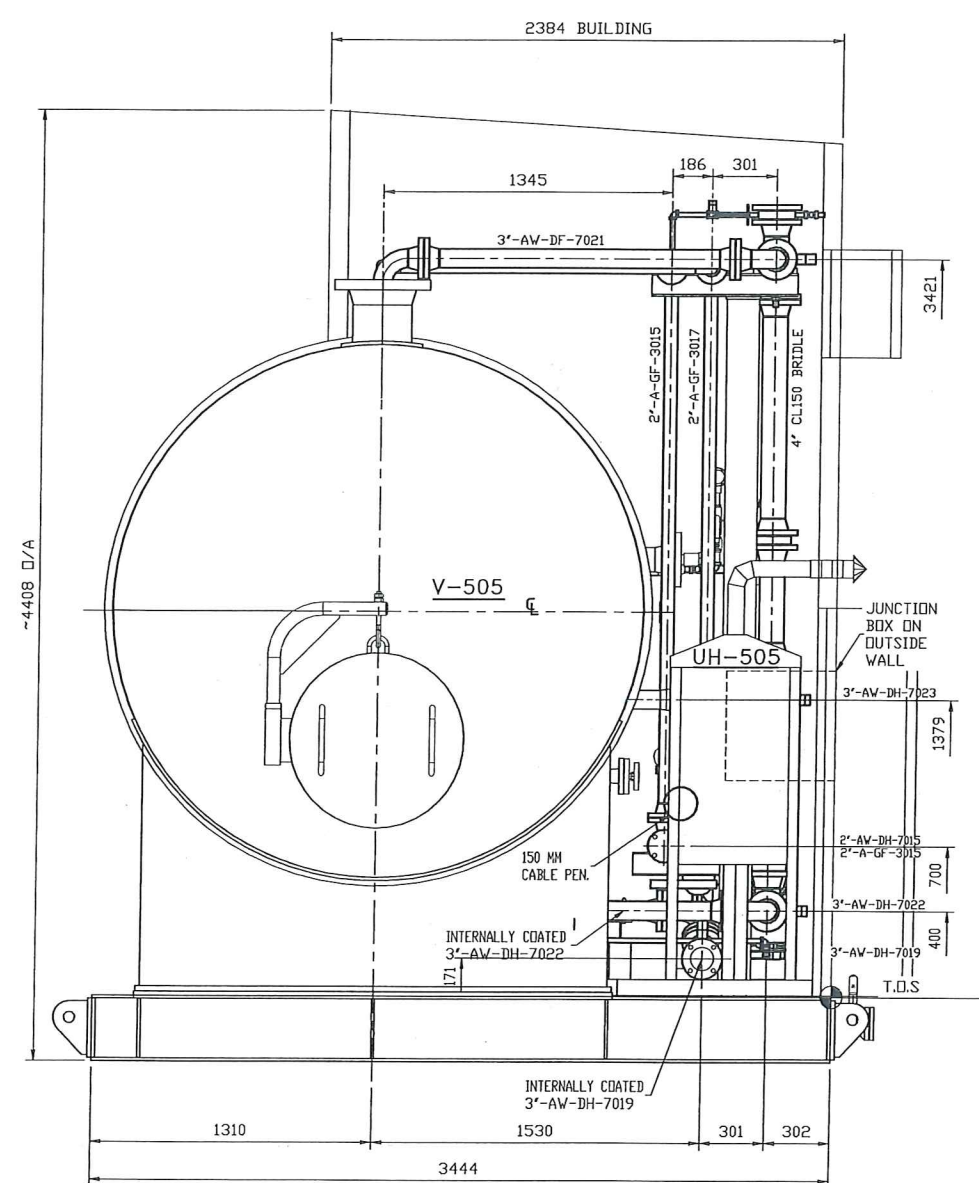


ENGINEERING RECORD

| | BY | DATE |
|--------------|------------|------------|
| DRAWN | MO | 05 MAY/25 |
| CHECKED | JV | ... MAY/25 |
| DESIGNED | MF | ... MAY/25 |
| REVIEWED | | |
| P.O. | 5895 | |
| CONTRACT No. | Y24-110224 | |
| PROJECT No. | 25-8852 | |



PLAN
SCALE 1:16



ELEVATION
SCALE 1:16
LOOKING EAST

- NOTES:
1. PIPING DESIGNED AND FABRICATED PER ASME B31.3 2022 EDITION, SOUR SERVICES.
 2. DESIGN PRESSURE AND HYDROSTATIC TEST PRESSURE AS SHOWN IN LINE LIST.
 3. PROCESS PIPING DESIGNED TO CNRL PIPING CLASS "A", "AW", FOR CL150 PIPING.
 4. LOW TEMP MATERIAL TO BE USED FOR THE PORTION OF PIPING EXTENDING OUT BUILDING, A-333 GR6 FOR PIPE AND A350 LF2 CL1 FOR FLANGE, IF PIPE CLASS IS NOT LOW TEMP.
 5. RADIOGRAPHY: AS PER LINE LIST FOR EACH LINE.
 6. PIPING STRESS RELIEVED: NO.
 7. TO BE PAINTED AS FOLLOWS:
SAND BLAST: SSPC-SP6;
PRIMER: EPOXY PRIMER, DFT PER SHOP STANDARD;
PAINT: COATED WARM GREY CLOVERDALE ARMOR
SHIELD XP ALIPHATIC URETHANE (2-3 MILS DFT)
 8. WEIGHTS: SHOWN IN SKID DRAWING.

| NOZZLE# | SIZE | RATING | DESCRIPTION/LINE# |
|---------|------|--------|-------------------|
| A | 3" | CL150 | TRUCK OUT |
| B | 2" | CL150 | FUEL GAS INLET |
| C | 2" | CL150 | HC DRAIN OUTLET |
| D | 2" | CL150 | I/A INLET |
| E | 2" | CL150 | SKID DRAIN |

AS BUILT
MASTER COPY
APPROVED
07/11/2025 10:33:01 AM

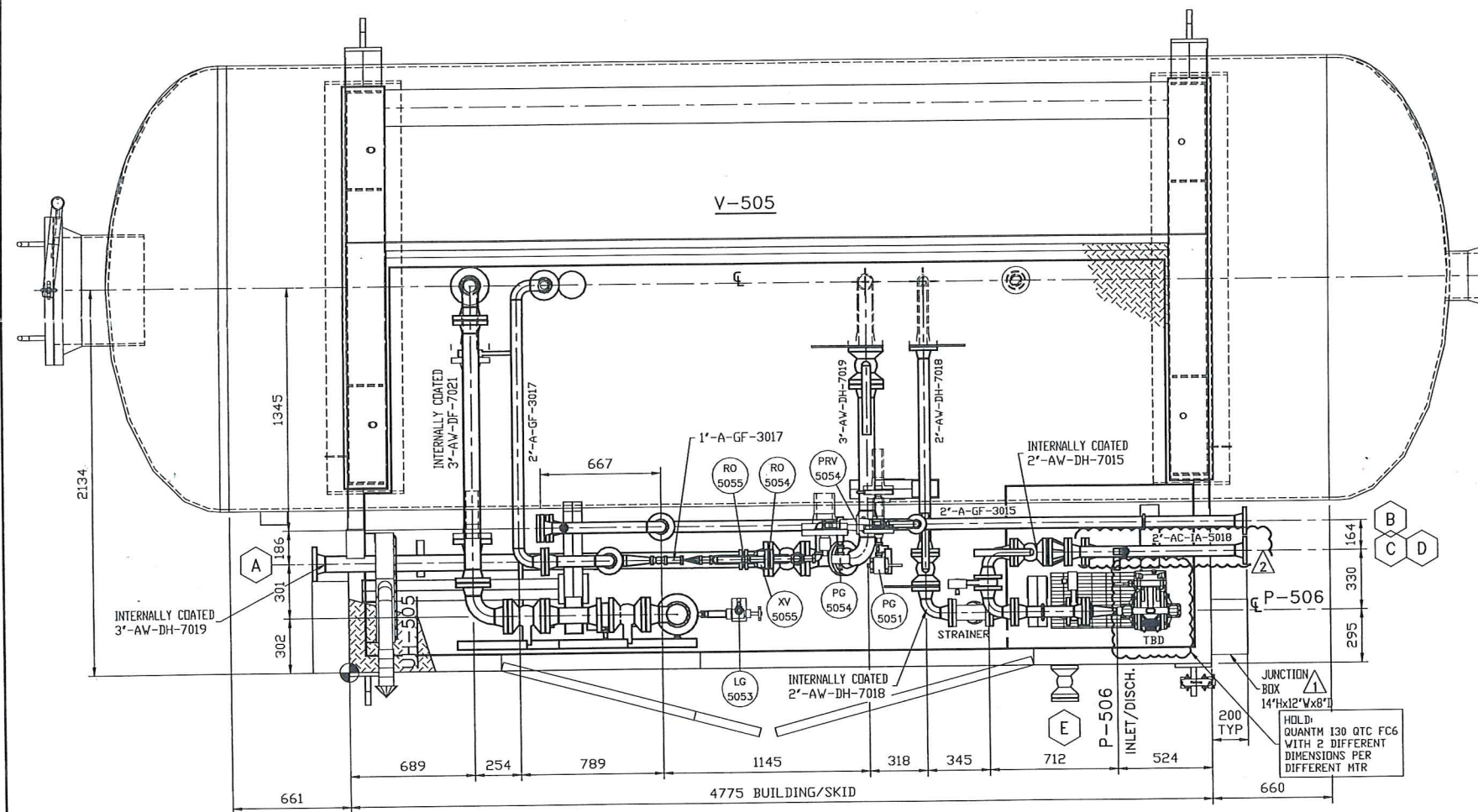
| NO. | DATE | BY | APP'D | DESCRIPTION |
|-----|-----------|----|-------|---|
| 2 | APR 3/25 | CD | CD | PUMP DISCHARGE REVISED PER P&ID CHANGE. ISSUED FOR CONSTRUCTION |
| 1 | JAN 12/25 | CD | CD | ADD ADDITION JUNC BOX. ISSUED FOR CONSTRUCTION |
| 0 | JAN 12/25 | EL | CD | ISSUED FOR CONSTRUCTION |
| E | DEC 13/24 | CD | | ISSUED FOR APPROVAL |
| D | NOV12/24 | CD | | ISSUED FOR APPROVAL |
| C | OCT 25/24 | CD | | ISSUED FOR APPROVAL |
| B | SEP 24/24 | CD | | ISSUED FOR INPUT AND REVIEW |
| A | SEP 12/24 | CD | | ISSUED FOR INPUT AND REVIEW |

REFERENCE DRAWINGS

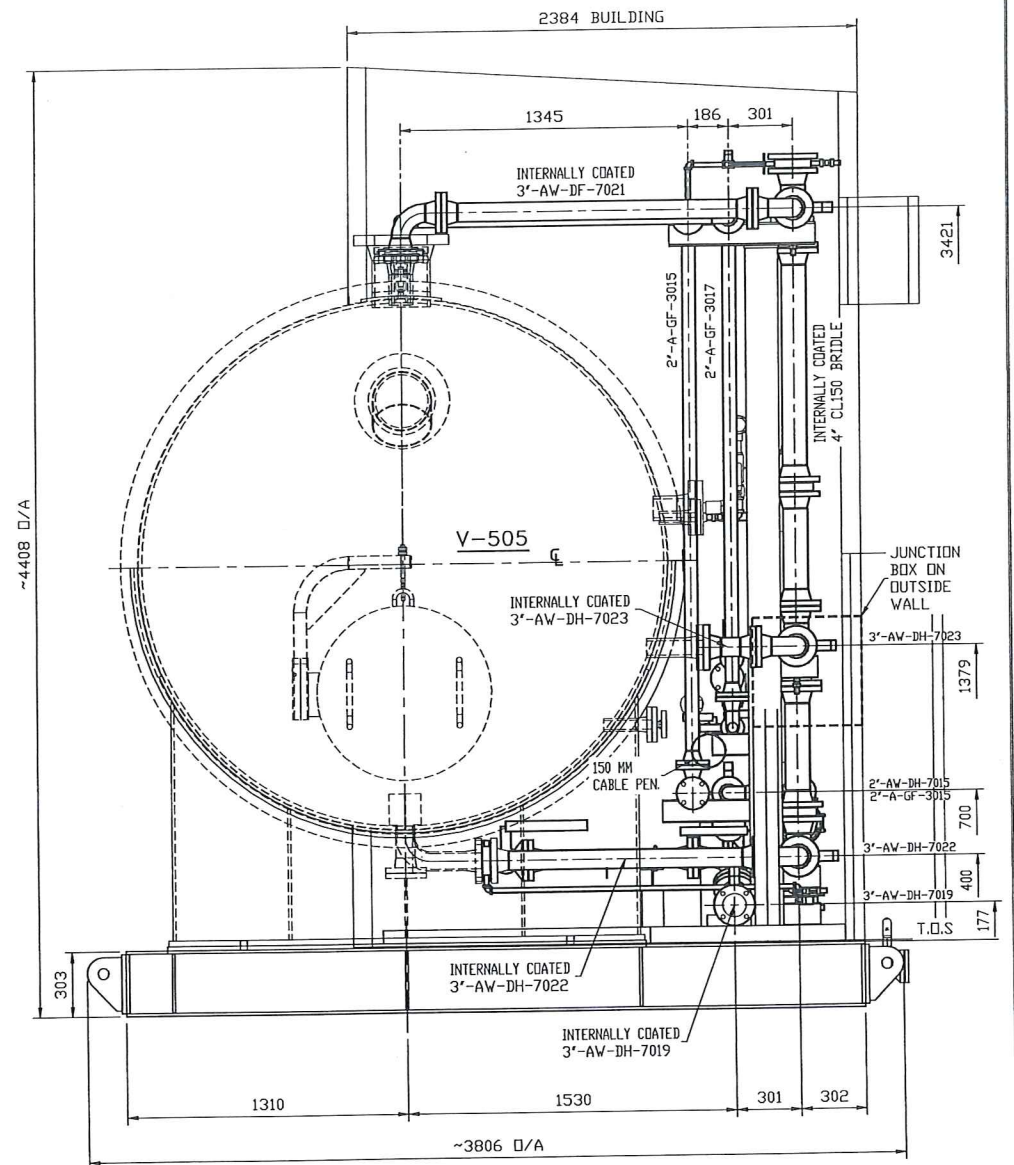
| | |
|------|----------------------------------|
| P&ID | KAR-0134-PID-PR-000055-001 REV 0 |
|------|----------------------------------|

TRIPLE S
SPECIALTY WELDING & FABRICATION LTD

| | | |
|----------------------------|--------------------------------|---|
| DRAWN CD | DATE SEP 12/24 | CUSTOMER/PROJECT/LOCATION CANADIAN NATURAL KARR MULTI WELL OIL BATTERY LSD: 01-34-065-03 V6M |
| CHECKED EL | DATE DEC 27 2024 | TITLE HP FLARE KNOCK OUT DRUM PACKAGE (BU-505) GENERAL ARRANGEMENT DRAWING PLAN VIEW AND ELEVATION |
| ENG. APP'L CD | DATE DEC 27 2024 | SCALE - |
| WORK ORDER NO. V.D. 976 | DRAWING NO. 976-3000 1 OF 7 | REV. 2 |



PLAN
SCALE 1:16 (VESSEL HIDDEN FOR CLARITY)



ELEVATION
SCALE 1:16
LOOKING EAST
VESSEL & BUILDING HEATER HIDDEN
FOR CLARITY

AS BUILT

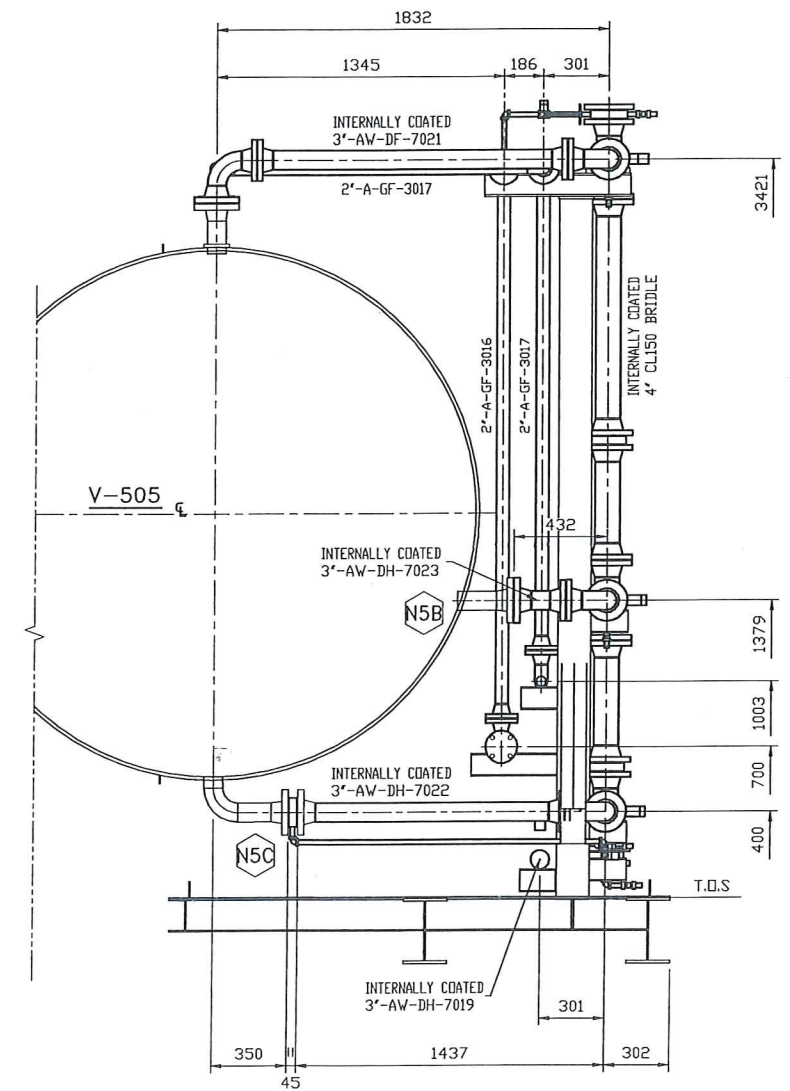
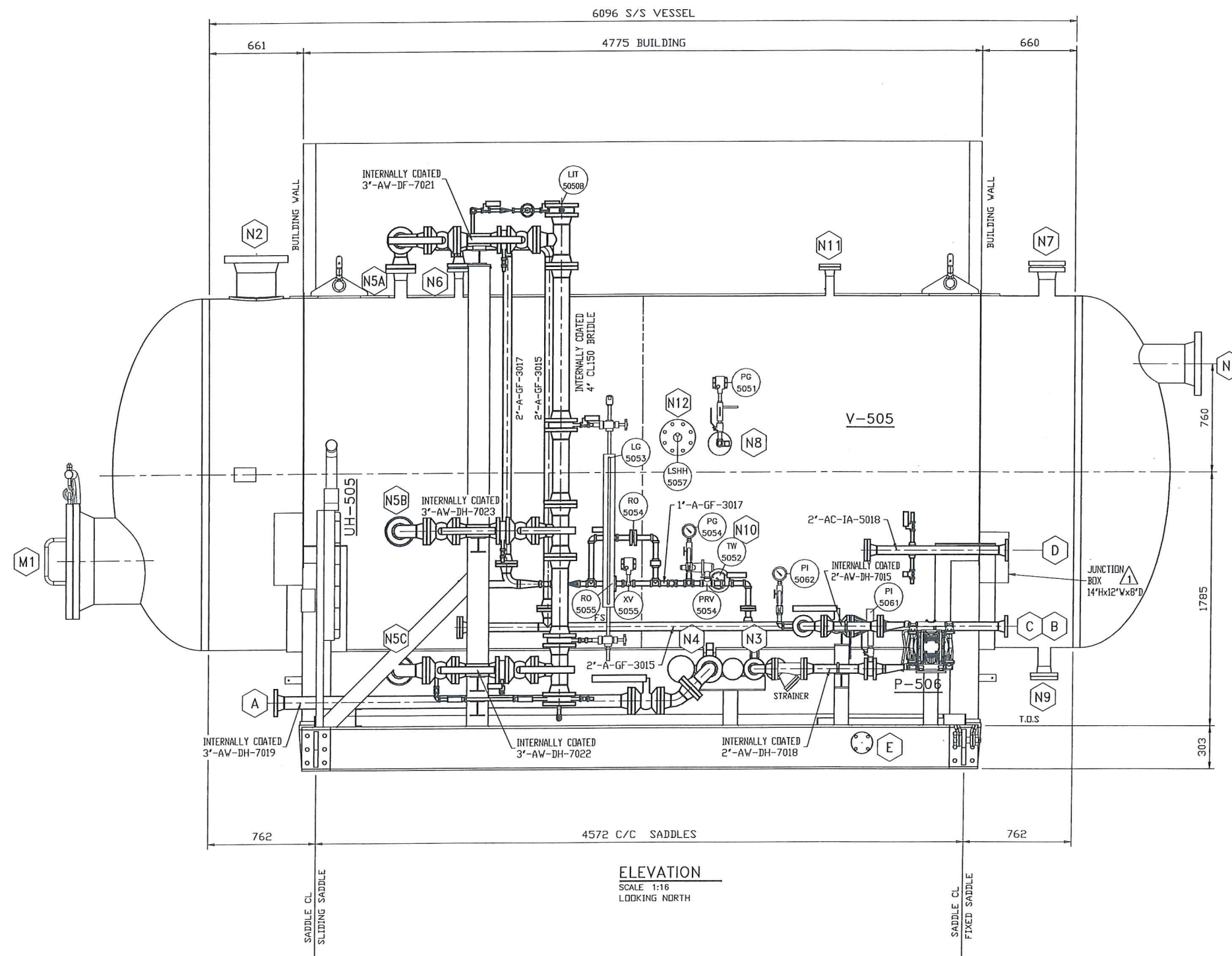
MASTER COPY

APPROVED

07/11/2025 10:33:05 AM

| NO. | DATE | BY | APP'D | DESCRIPTION |
|-----|-----------|----|-------|---|
| 2 | APR 3/25 | CD | CD | PUMP DISCHARGE REVISED PER P&ID CHANGE. ISSUED FOR CONSTRUCTION |
| 1 | JAN 12/25 | CD | CD | ADD ADDITION JUNC BOX. ISSUED FOR CONSTRUCTION |
| 0 | JAN 12/25 | EL | CD | ISSUED FOR CONSTRUCTION |
| E | DEC 13/24 | CD | | ISSUED FOR APPROVAL |
| D | NOV12/24 | CD | | ISSUED FOR APPROVAL |
| C | OCT 25/24 | CD | | ISSUED FOR APPROVAL |
| B | SEP 24/24 | CD | | ISSUED FOR INPUT AND REVIEW |
| A | SEP 12/24 | CD | | ISSUED FOR INPUT AND REVIEW |

| | | | |
|--|---------------------|---|-----------------------------|
| TRIPLE S SPECIALTY WELDING & FABRICATION LTD | | CUSTOMER/PROJECT/LOCATION | |
| | | CANADIAN NATURAL KARR MULTI WELL OIL BATTERY LSD: 01-34-063-03 VGM | |
| DRAWN CD | DATE SEP 12/24 | TITLE HP FLARE KNOCK OUT DRUM PACKAGE (BU-505) GENERAL ARRANGEMENT DRAWING PLAN VIEW AND ELEVATION (VESSEL HIDDEN) | |
| CHECKED EL | DATE DEC 27 2024 | | |
| ENG. APP'L CD | DATE DEC 27 2024 | SCALE | DRAWING NO. 976-3000 2 OF 7 |
| WORK ORDER No. 114 W.O. 976 | | REV. 2 | |



AS BUILT

MASTER COPY

APPROVED

07/11/2025 10:33:10 AM

| NO. | DATE | BY | APP'D | DESCRIPTION |
|-----------|-----------|----|-------|---|
| 2 | APR 3/25 | CD | CD | PUMP DISCHARGE REVISED PER P&ID CHANGE. ISSUED FOR CONSTRUCTION |
| 1 | JAN 12/25 | CD | CD | ADD ADDITION JUNC BOX. ISSUED FOR CONSTRUCTION |
| 0 | JAN 12/25 | EL | CD | ISSUED FOR CONSTRUCTION |
| E | DEC 13/24 | CD | | ISSUED FOR APPROVAL |
| D | NOV12/24 | CD | | ISSUED FOR APPROVAL |
| C | OCT 25/24 | CD | | ISSUED FOR APPROVAL |
| B | SEP 24/24 | CD | | ISSUED FOR INPUT AND REVIEW |
| A | SEP 12/24 | CD | | ISSUED FOR INPUT AND REVIEW |
| NO. | DATE | BY | APP'D | DESCRIPTION |
| REVISIONS | | | | |

| | | | | |
|----------------|--|-------------|--|--|
| DRAWN | | DATE | CUSTOMER/PROJECT/LOCATION | |
| CD | | SEP 12/24 | CANADIAN NATURAL | |
| CHECKED | | DATE | KARR MULTI WELL OIL BATTERY | |
| EL | | DEC 27 2024 | LSD: 01-34-065-03 V6H | |
| ENG. APP'L. | | DATE | TITLE | |
| CD | | DEC 27 2024 | HP FLARE KNOCK OUT DRUM PACKAGE (BU-505) | |
| | | | GENERAL ARRANGEMENT DRAWING | |
| | | | FRONT VIEW AND SECTION VIEW | |
| WORK ORDER NO. | | SCALE | DRAWING NO. | |
| V.O. 976 | | - | 976-3000 3 OF 7 | |
| | | | REV. | |
| | | | 2 | |



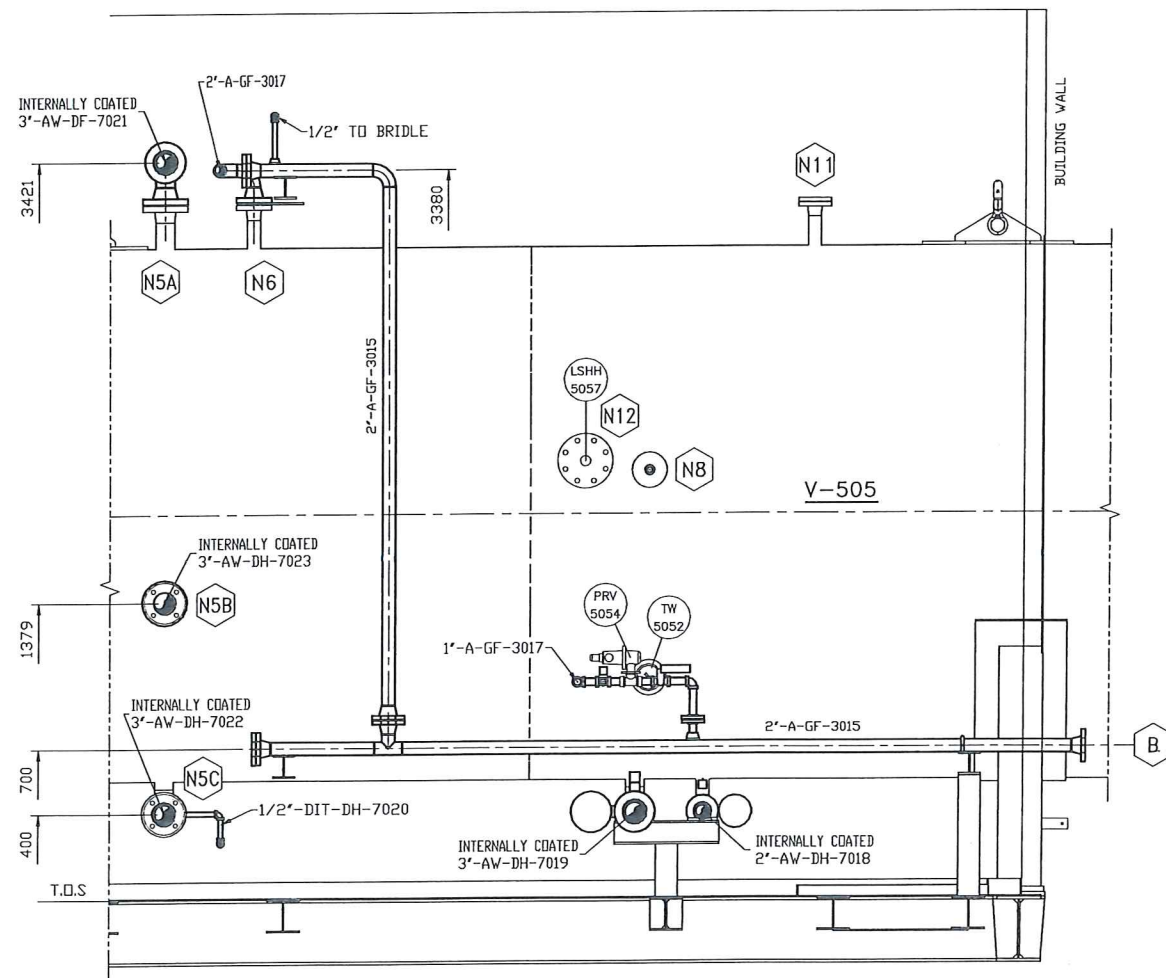


07/11/2025 10:33:14 AM

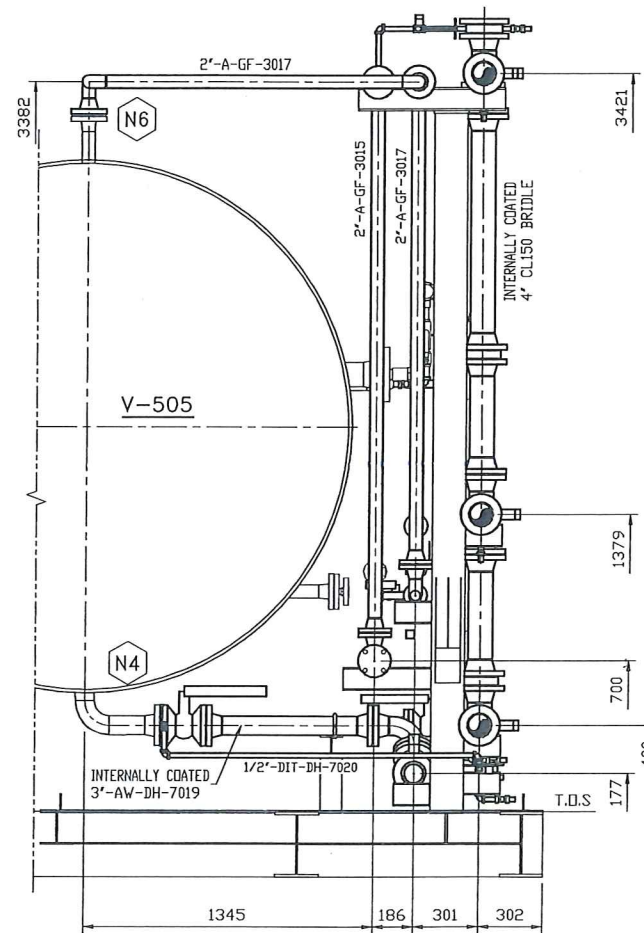


SPECIALTY WELDING & FABRICATION LTD

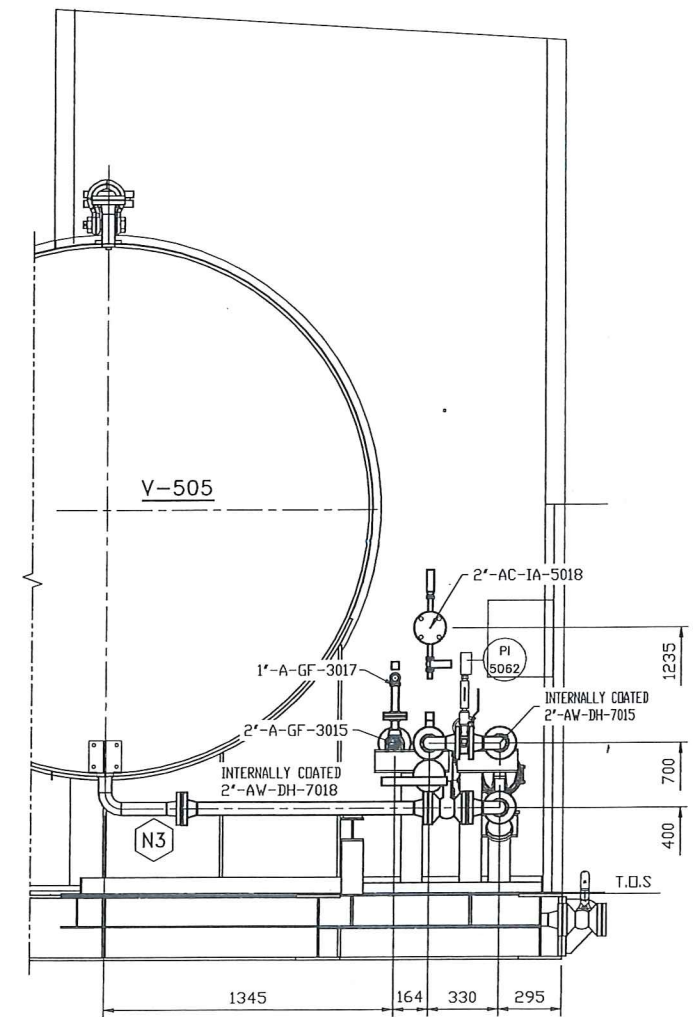
| | | | | |
|--------------------|---------------------|---|-----------------------------|--------|
| DRAWN CD | DATE SEP 12/24 | CUSTOMER/PROJECT/LOCATION CANADIAN NATURAL KARR MULTI WELL OIL BATTERY LSD: 01-34-065-03 WGM | | |
| CHECKED EL | DATE DEC 27 2024 | TITLE HP FLARE KNOCK OUT DRUM PACKAGE (BU-505) GENERAL ARRANGEMENT DRAWING FRONT VIEW AND SECTION VIEW | | |
| ENG. APPL. CD | DATE DEC 27 2024 | | | |
| WORK ORDER No. 976 | | SCALE - | DRAWING NO. 976-3000 8 OF 7 | REV. 2 |



ELEVATION C
SCALE 1:16



SECTION E
SCALE 1:16



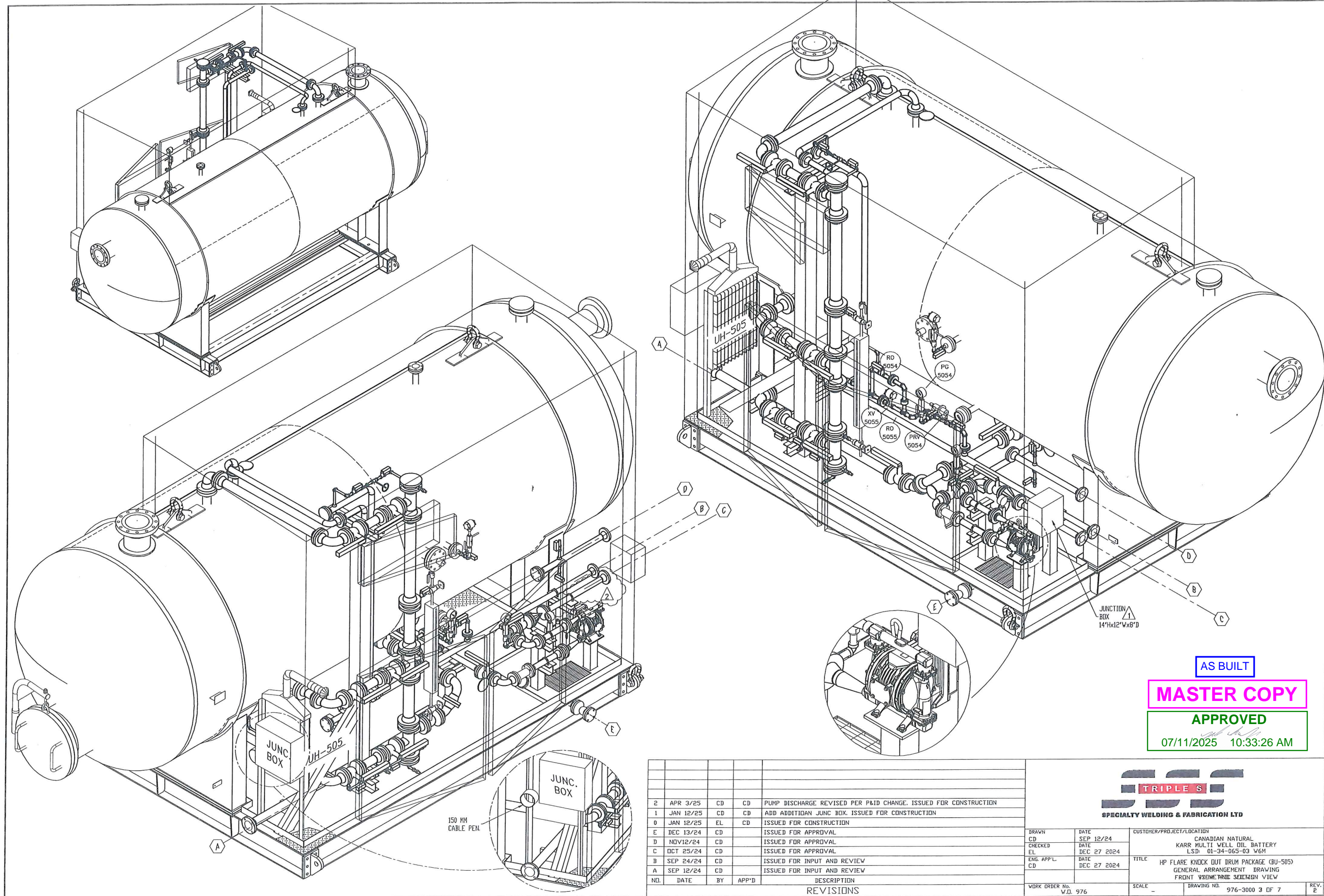
SECTION F
SCALE 1:16

AS BUILT
MASTER COPY
APPROVED
07/11/2025 10:33:18 AM

| NO. | DATE | BY | APP'D | DESCRIPTION |
|-----------|-----------|----|-------|---|
| 2 | APR 3/25 | CD | CD | PUMP DISCHARGE REVISED PER P&ID CHANGE. ISSUED FOR CONSTRUCTION |
| 1 | JAN 12/25 | CD | CD | ADD ADDITION JUNC BOX. ISSUED FOR CONSTRUCTION |
| 0 | JAN 12/25 | EL | CD | ISSUED FOR CONSTRUCTION |
| E | DEC 13/24 | CD | | ISSUED FOR APPROVAL |
| D | NOV12/24 | CD | | ISSUED FOR APPROVAL |
| C | OCT 25/24 | CD | | ISSUED FOR APPROVAL |
| B | SEP 24/24 | CD | | ISSUED FOR INPUT AND REVIEW |
| A | SEP 12/24 | CD | | ISSUED FOR INPUT AND REVIEW |
| NO. | DATE | BY | APP'D | DESCRIPTION |
| REVISIONS | | | | |



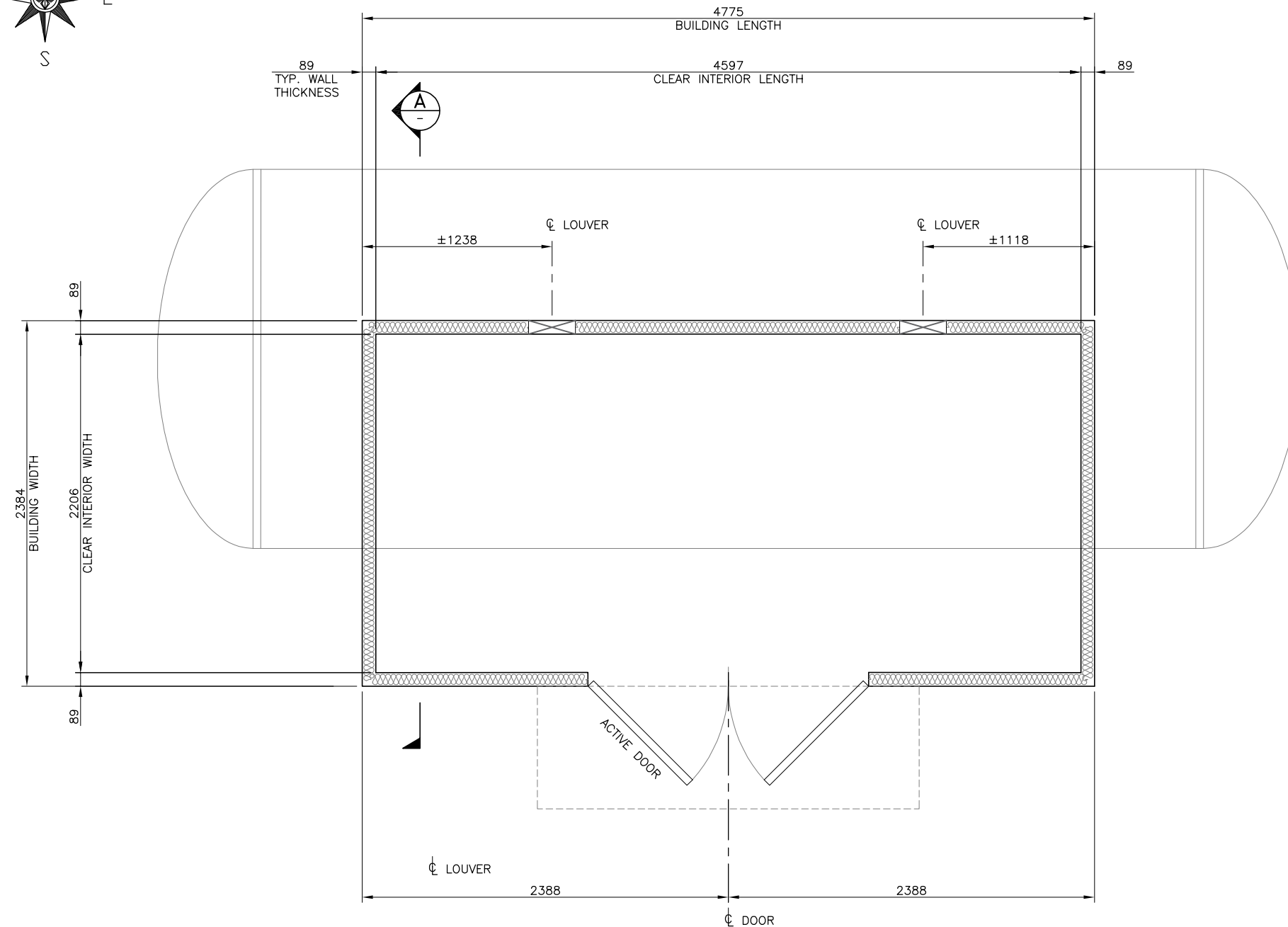
| | | |
|----------------------------|--------------------------------|---|
| DRAWN CD | DATE SEP 12/24 | CUSTOMER/PROJECT/LOCATION CANADIAN NATURAL KARR MULTI WELL OIL BATTERY LSD: 01-34-065-03 V6M |
| CHECKED EL | DATE DEC 27 2024 | TITLE HP FLARE KNOCK OUT DRUM PACKAGE (BU-505) GENERAL ARRANGEMENT DRAWING FRONT VIEW AND SECTION VIEW |
| ENG. APP'L. CD | DATE DEC 27 2024 | SCALE 1:16 |
| WORK ORDER No. W.O. 976 | DRAWING No. 976-3000 9 OF 7 | REV. 2 |



AS BUILT
MASTER COPY
APPROVED
[Signature]
07/11/2025 10:33:26 AM

| NO. | DATE | BY | APP'D | DESCRIPTION |
|-----------|-----------|----|-------|---|
| 2 | APR 3/25 | CD | CD | PUMP DISCHARGE REVISED PER P&ID CHANGE. ISSUED FOR CONSTRUCTION |
| 1 | JAN 12/25 | CD | CD | ADD ADDITIOAN JUNC. BOX. ISSUED FOR CONSTRUCTION |
| 0 | JAN 12/25 | EL | CD | ISSUED FOR CONSTRUCTION |
| E | DEC 13/24 | CD | | ISSUED FOR APPROVAL |
| D | NOV12/24 | CD | | ISSUED FOR APPROVAL |
| C | OCT 25/24 | CD | | ISSUED FOR APPROVAL |
| B | SEP 24/24 | CD | | ISSUED FOR INPUT AND REVIEW |
| A | SEP 12/24 | CD | | ISSUED FOR INPUT AND REVIEW |
| REVISIONS | | | | |

| | | | |
|----------------------------|--|--------------------------------|--|
| DRAWN CD | | DATE SEP 12/24 | CUSTOMER/PROJECT/LOCATION CANADIAN NATURAL KARR MULTI WELL OIL BATTERY LSD: 01-34-065-03 W6M |
| CHECKED EL | | DATE DEC 27 2024 | |
| ENG. APP'L. CD | | DATE DEC 27 2024 | |
| WORK ORDER No. W.O. 976 | | | TITLE HP FLARE KNOCK OUT DRUM PACKAGE (BU-505) GENERAL ARRANGEMENT DRAWING FRONT ISOMETRIC SECTION VIEW |
| SCALE - | | DRAWING NO. 976-3000 3 OF 7 | REV. 2 |



±2595
SHIPPING BUILDING WIDTH

R20 INSULATION
ICE RAKE
1 12

4089
LOW EAVE HEIGHT

3939
CLEAR INTERIOR HEIGHT

89
TYP. WALL THICKNESS

2206
CLEAR INTERIOR WIDTH

3933
HIGH EAVE HEIGHT

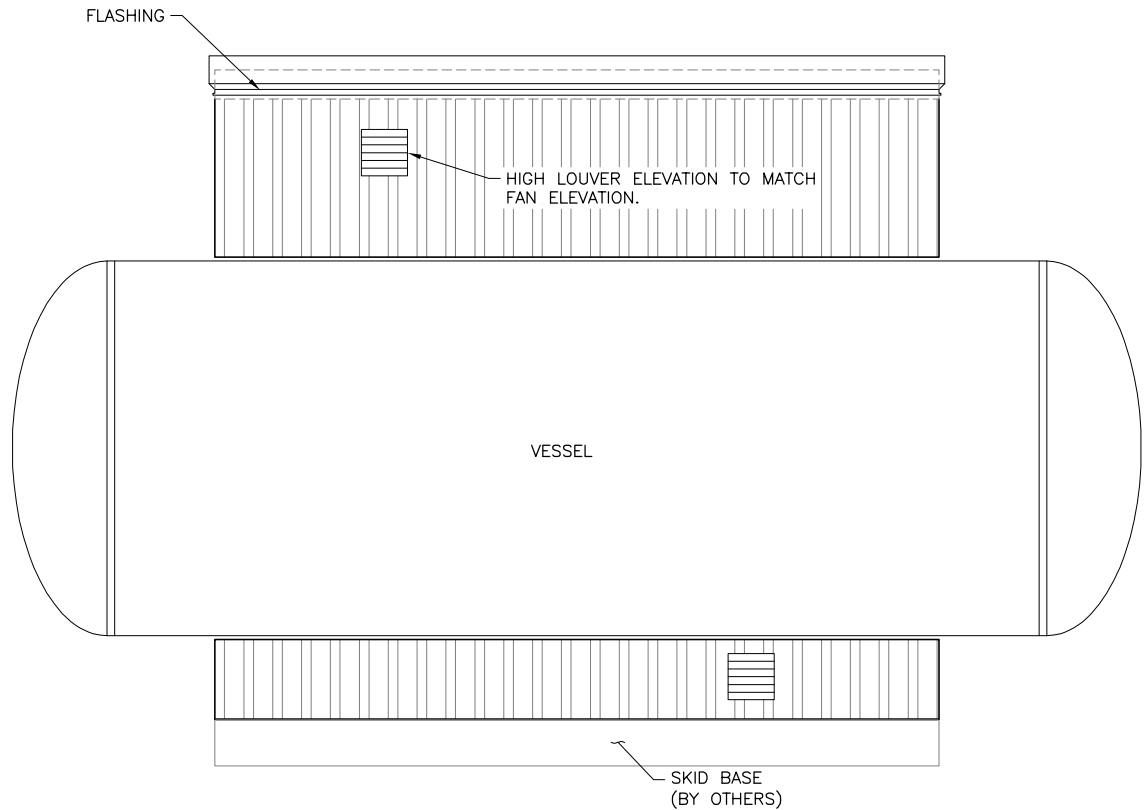
±4375
SHIPPING BUILDING HEIGHT

FLAT BAR
BOTTOM CHANNEL
4" LONG #14
@10" O.C.
FLASHING
L2x3x1/4 (SLV)
VESSEL
1"x2"x1"
22GA Z-BAR
#14 SCREWS @ 10" O.C.
NO LIP TOP
CHANNEL
FLAT BAR
SKID BASE
(BY OTHERS)

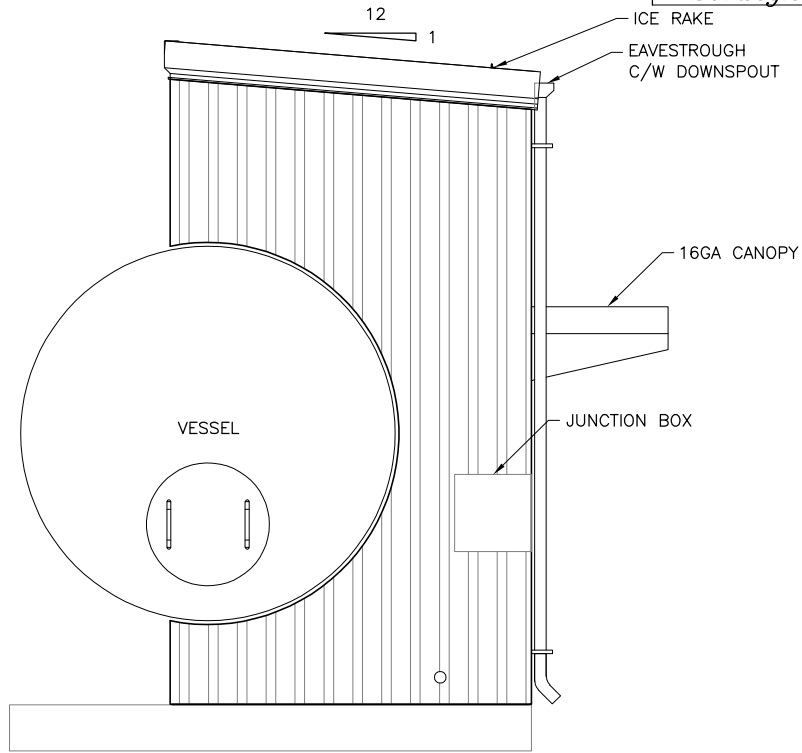
R12 INSULATION

A SECTION
1:35

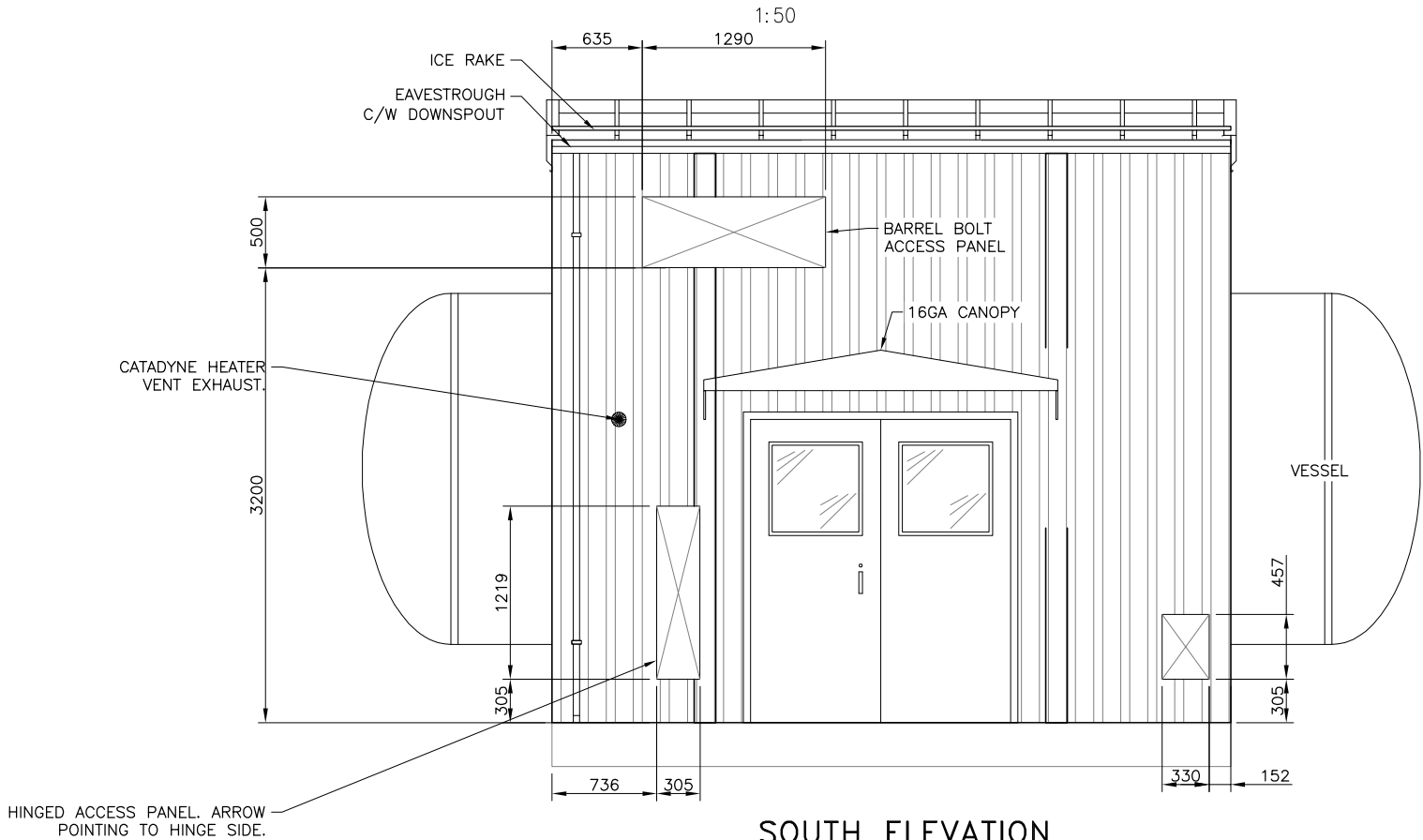
[illegible]



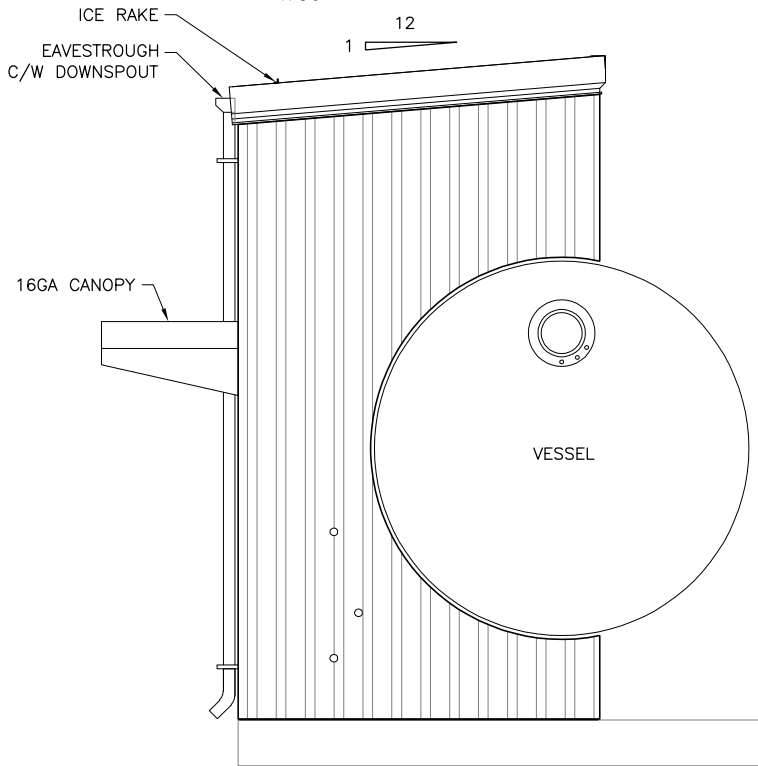
NORTH ELEVATION



EAST ELEVATION



SOUTH ELEVATION



WEST ELEVATION

| NO. | DATE | REVISION | DRN | CHK | ENG | APR |
|-----|-----------|-------------------------|-----|-----|-----|-----|
| 0 | 06 MAY/25 | ISSUED FOR APPROVAL | MO | JV | MF | |
| 0A | 23 JUN/25 | RE-ISSUED FOR APPROVAL | AG | JV | MF | |
| 1 | 08 JUL/25 | ISSUED FOR CONSTRUCTION | MF | JV | MF | |
| 1A | 06 AUG/25 | REVISION | MF | JV | MF | |
| 1B | 10 SEP/25 | REVISION | MF | JV | MF | |
| 2 | 06 NOV/25 | AS BUILT | AR | JV | MF | |
| | | | | | | |
| | | | | | | |
| | | | | | | |



CLIENT/VENDOR

CONSULTANT LOGO

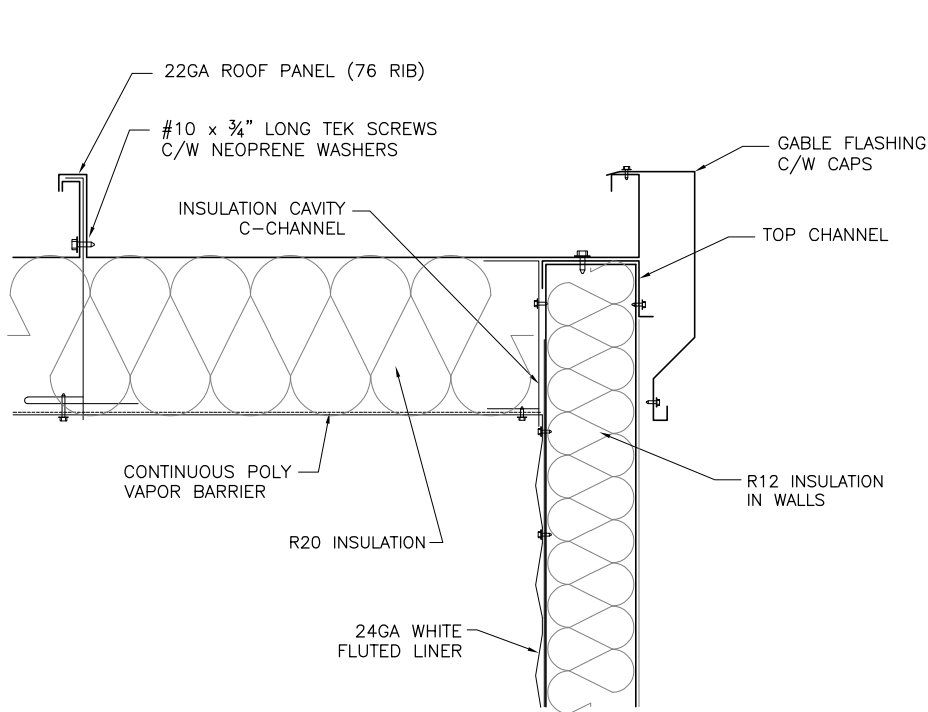


| ENGINEERING RECORD | | |
|--------------------|------------|------------|
| | BY | DATE |
| DRAWN | MO | 05 MAY/25 |
| CHECKED | JV | ... MAY/25 |
| DESIGNED | MF | ... MAY/25 |
| REVIEWED | | |
| P.O. | 5895 | |
| CONTRACT No. | Y24-110224 | |
| PROJECT No. | 25-8852 | |

TRIPLE SSS

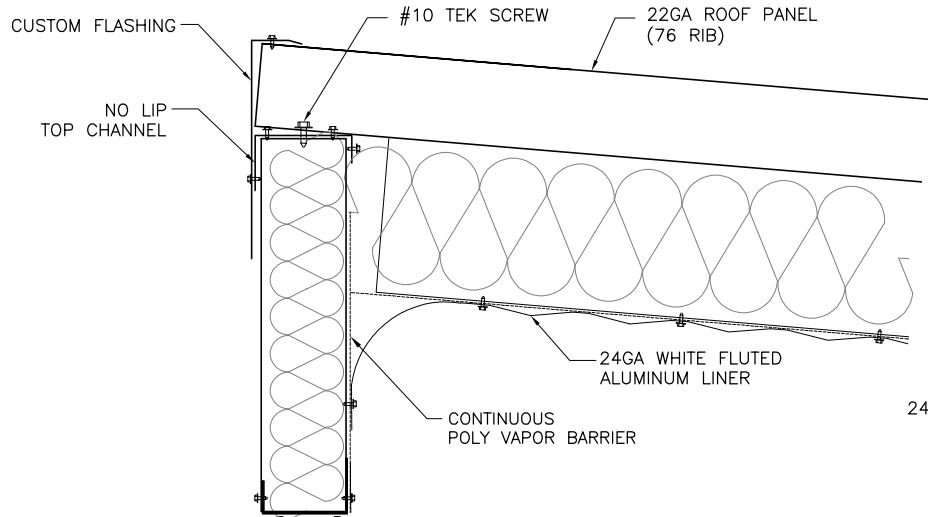
FLARE KNOCKOUT DRUM BUILDING
KARR MULTI WELL OIL BATTERY
ARCHITECTURAL – ELEVATIONS

| SCALE | DRAWING NUMBER | VDRL | REV |
|-------|----------------|------|-----|
| | 25-8852-BLD-3 | | 2 |



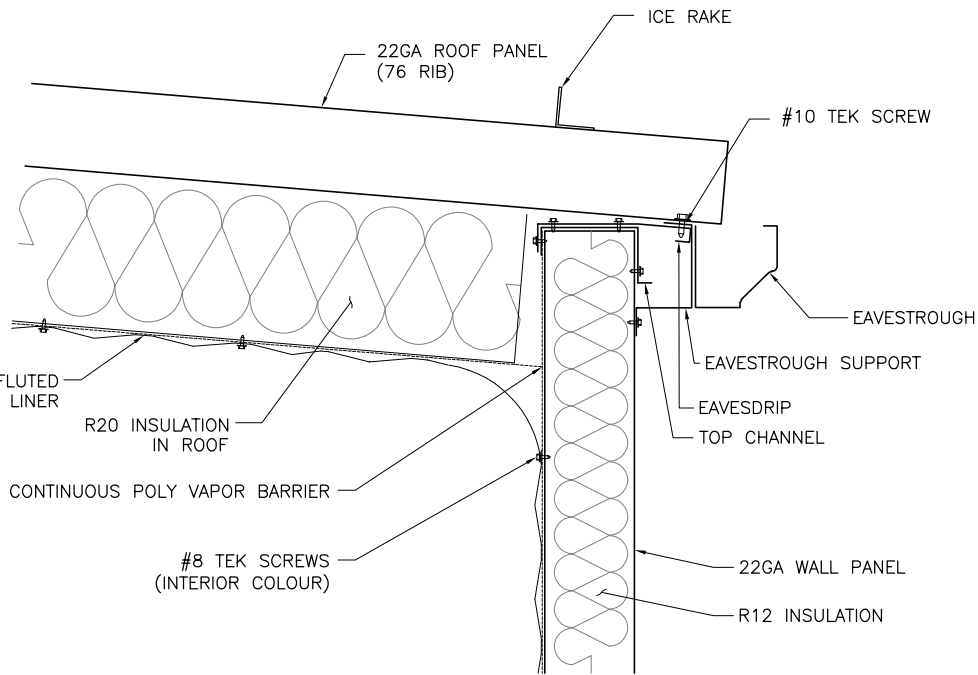
WALL ROOF CONNECTION DETAIL

NTS



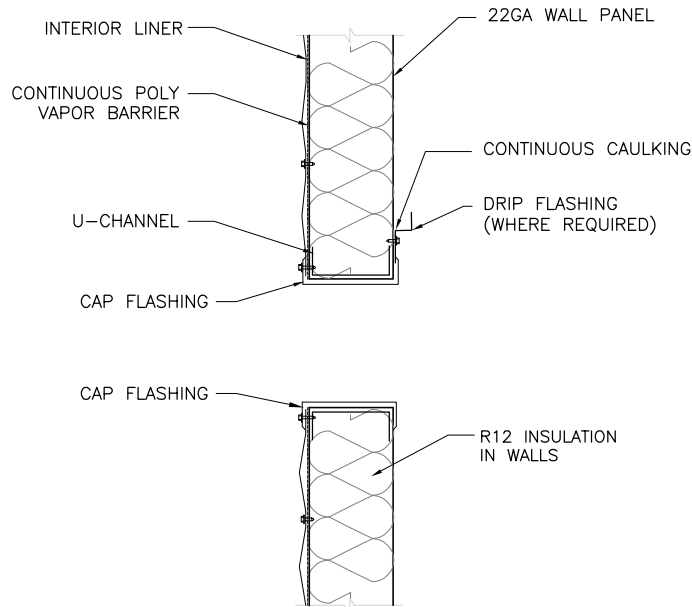
WALL SECTION AT HIGH EAVE

NTS



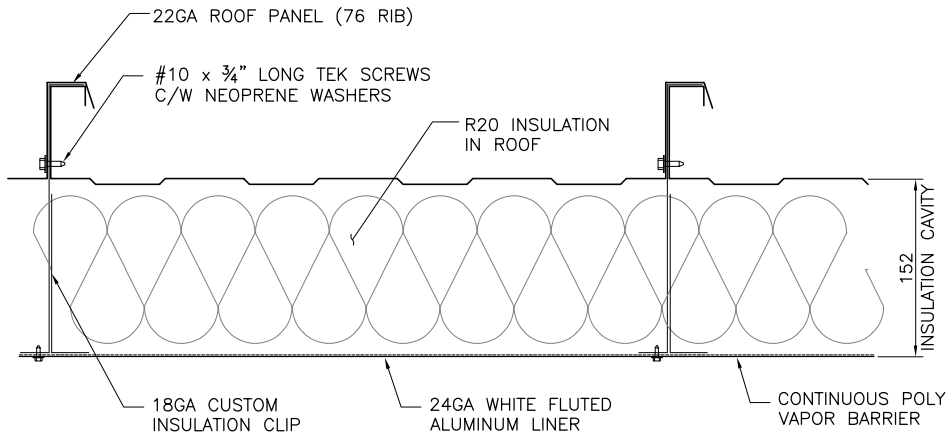
WALL SECTION AT LOW EAVE

NTS



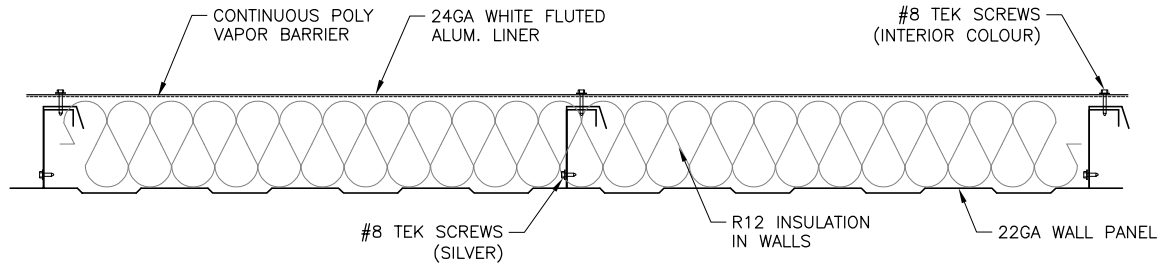
TYPICAL FRAMED OPENING

NTS

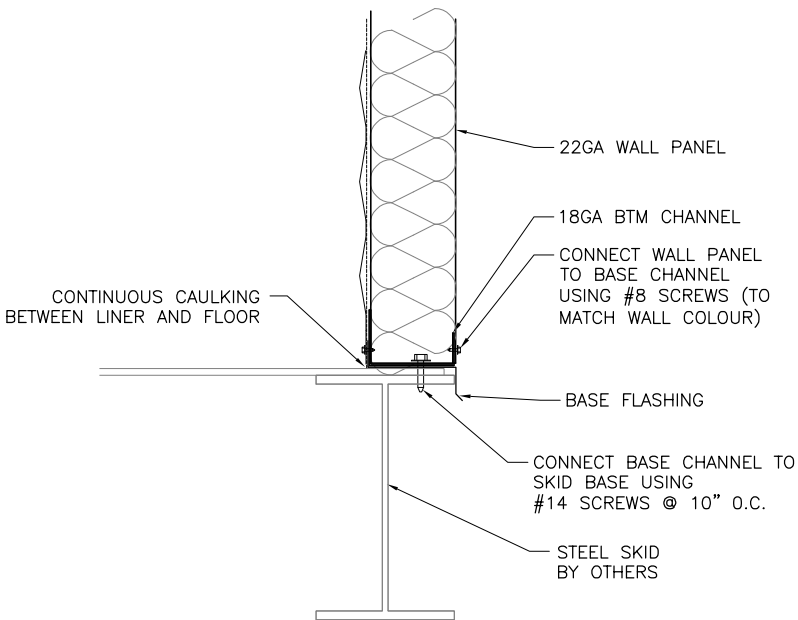


ROOF SECTION

NTS



WALL SECTION



WALL TO BASE SECTION

NTS

| NO. | DATE | REVISION | DRN | CHK | ENG | APR |
|-----|-----------|-------------------------|-----|-----|-----|-----|
| 0 | 06 MAY/25 | ISSUED FOR APPROVAL | MO | JV | MF | |
| 0A | 23 JUN/25 | RE-ISSUED FOR APPROVAL | AG | JV | MF | |
| 1 | 08 JUL/25 | ISSUED FOR CONSTRUCTION | MF | JV | MF | |
| 2 | 06 NOV/25 | AS BUILT | AR | JV | MF | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |



PERMIT TO PRACTICE
STRAIGHT-UP METAL BUILDINGS LTD.
RM SIGNATURE: *Max Furry*
RM APEGA ID #: ID# 96210
DATE: 2025-11-07
PERMIT NUMBER: P012663
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

CLIENT/VENDOR

CONSULTANT LOGO

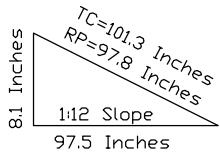


| ENGINEERING RECORD | | |
|--------------------|------------|------------|
| | BY | DATE |
| DRAWN | MO | 05 MAY/25 |
| CHECKED | JV | ... MAY/25 |
| DESIGNED | MF | ... MAY/25 |
| REVIEWED | | |
| P.O. | 5895 | |
| CONTRACT No. | Y24-110224 | |
| PROJECT No. | 25-8852 | |

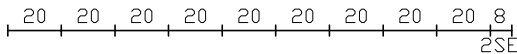
TRIPLE SSS

FLARE KNOCKOUT DRUM BUILDING
KARR MULTI WELL OIL BATTERY
ARCHITECTURAL – DETAILS

| SCALE | DRAWING NUMBER | VDRL | REV |
|-------|----------------|------|-----|
| | 25-8852-BLD-4 | | 2 |



ROOF PANELS
9 @ 20x101.3
1 @ 8x101.3 2SE



26 25 24 23 22 21 20 19 18 17

14 20 20 20 20 20 20 20 20 14
169.1 50 50 50 50 50 50 50 50 169.1

188"

50"

WALL PANELS ABOVE & BELOW TANK.
SEE DETAIL ON THIS PAGE.

119 1/8"

26A 25A 24A 23A 22A 21A 20A 19A 18A

9.5 20 20 20 20 20 20 20 20

x x x x x x x x x

21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5

2SE

12"x12" MANUAL
LOUVER. 2 REQ. TYP.

31" 16" 74" 57"

26 6 x 169.1
27 20 x 167.0
28 20 x 165.3
29 20 x 163.6
30 20 x 162.0
1 11.5 x 161.0

97 1/2"

16"x52" FRAMED OPENING
FOR HINGED POLYURETHANE
ACCESS DOOR W/ LATCH
(SEE DETAIL ON FAB-2)
ARROW POINTING TO HINGE SIDE.

ROUTE CATADYNE HEATER VENT
OUT THROUGH THIS WALL.

51"x20" FRAMED OPENING
FOR POLYURETHANE
ACCESS DOOR W/ BARREL BOLTS
(SEE DETAIL ON FAB-2)
CONNECT TO WALL USING
4 @ BARREL BOLTS.

126"

25"

8.5 20 8.5 20 14 20 20 20 20 8.5 20 8.5
x x x x x x x x x x x x
161 161 161 161 73 73 73 161 161 161 161

2SE FLIP 2BE

1 2 3 4 5 6 7 8 9 10 11 12

INSTALL L2x3, (SLV),
CONNECT TO FLATBAR
AS SHOWN.

FLATBAR WELDED
ON TOP OF TANK.

#14 SCREWS @ 10" O.C.,

ELEVATION OF THIS LOUVER
TO MATCH FAN ELEVATION.

TOP OF TANK CONNECTION

CUT DOWN CORNER PANELS
AS REQUIRED.

VESSEL PENETRATION
BOTH ENDS.

13"Wx18"H FRAMED OPENING
FOR POLYURETHANE HINGED
ACCESS DOOR W/ LATCH
SEE DETAIL ON FAB-2).
ARROW POINTING TO HINGE SIDE.

6" 16GA SUPPORT
CHANNELS.

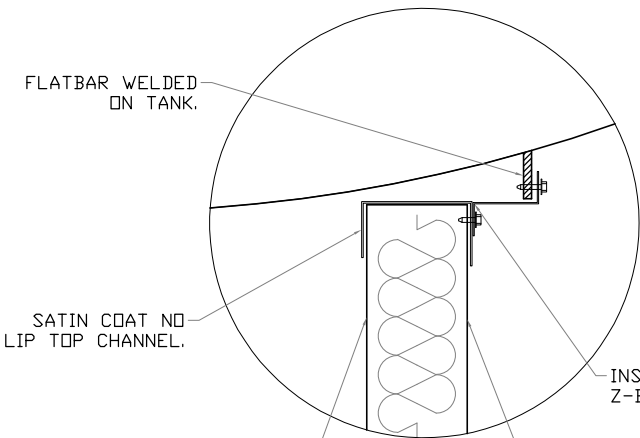
FLATBAR WELDED
ON TANK.

INSTALL WALL PANELS AS
SHOWN. INSULATE & LINE AS
PER NORMAL. (LINER & VAPOUR
BARRIER NOT SHOWN IN THIS
VIEW FOR CLARITY).

SATIN COAT NO
LIP TOP CHANNEL.

INSTALL BASE FLASHING, BOTTOM
CHANNEL & WALL PANELS AS
SHOWN. INSULATE & LINE AS
PER NORMAL. (LINER & VAPOUR
BARRIER NOT SHOWN IN THIS
VIEW FOR CLARITY).

CONTOUR OF TANK.



INSTALL 1"x2"x1"
Z-BAR AS SHOWN.

OUTSIDE OF WALL PANEL
OFFSET 2" FROM FLATBAR.

BOTTOM OF TANK CONNECTION

| | | | |
|----------|-------------------------|-------------|-----------|
| 2 | AS BUILT | A. ROY | NOV 06/25 |
| 1B | ISSUED FOR CONSTRUCTION | M. FORSBERG | SEP 12/25 |
| 1A | ISSUED FOR CONSTRUCTION | M. FORSBERG | AUG 06/25 |
| 1 | ISSUED FOR CONSTRUCTION | M. FORSBERG | JUL 07/25 |
| REVISION | STATUS | DRAWN BY | DATE |

Straight-Up Metal Buildings Ltd.

22GA Tan Exterior Walls R-12
22GA Metro Brown Exterior Roof R-20
24GA Fluted Alum. White Interior Liner
22GA Metro Brown Trim & Tan Doors

ERECTOR'S NOTES

- CONNECT BOTTOM CHANNEL TO SKID USING #14 SCREWS @ 10" O.C. OR ON EITHER SIDE OF WALL PANEL RIB.
- CONNECT WALL PANELS TO EACH OTHER USING #8 SCREWS @ 18" O.C. IN SIDE WALLS & @ 16" O.C. IN END WALLS.
- CONNECT EACH ROOF PANEL TO BUILDING USING 8 @ #10 SCREWS, 4 @ HIGH WALL & 4 @ LOW WALL
- CONNECT ROOF PANELS TO EACH OTHER USING #10 SCREWS @ 18" O.C.
- CONNECT STARTER ROOF PANEL TO END WALL TOP CHANNEL USING #10 SCREWS @ 18" O.C.
- CONNECT INTERIOR LINER TO WALL PANEL RIBS USING WHITE #8 SCREWS IN EVERY 2nd LOW LINER PROFILE.
- CONNECT THRESHOLD TO SKID USING THRESHOLD SCREWS.
- APPLY CLEAR CAULKING AROUND DOOR FRAMES.
- APPLY TREMSIL 600 FOR CAULKING ROOF
- FLASH AROUND EXTERIOR OF ACCESS BOXES WITH OUTSIDE COOLER FLASHING AND INTERIOR WITH INSIDE LOUVER TRIM. CAULK BOTH SIDES COMPLETELY.

DESIGN NOTES

- STEEL USED IN WALL PANELS, ROOF PANELS AND FLASHINGS CONFORM TO ASTM A792-09 GRADE 37, WITH AZ50 COATING CLASS.
- REFER TO SPECIAL NOTES & BUILDING ASSEMBLY MANUAL FOR COMPLETE ERECTION INSTRUCTIONS.
- NORMAL IMPORTANCE CATEGORY AND SEISMIC CATEGORY D ASSUMED

NOTES

- ALL DIMENSIONS ARE IN INCHES AND FRACTIONS OF AN INCH.
- DO NOT SCALE DRAWINGS.
- ALL DIMENSIONS TO WINDOWS AND DOORS ARE TO ROUGH OPENINGS
- CONFIRM LOCATION OF ANY LOUVERS AND OR ANY FANS BEFORE INSTALLING.

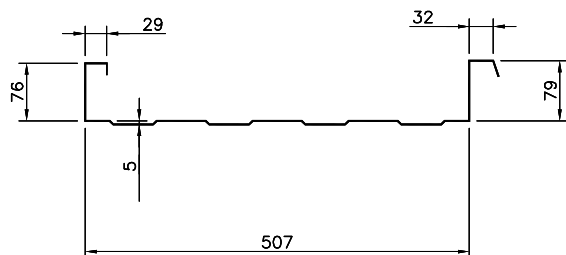
| | | | | | |
|-----------|--------------------------|--------|--------|---------|--------|
| CLIENT: | TRIPLE S | | | | |
| PROJECT: | WO 976 FLARE KO BUILDING | | | | |
| TITLE: | PLAN/PANEL LAYOUT | | | | |
| SIZE: W | 15'8" | L | 8'1.5" | H 13'5" | 1:12 |
| Sq. FT. W | 649' | G | 5' | R 128' | T 782' |
| Perimeter | 47'7" | Weight | — | | |

| | | | |
|--------------|--------------|----------|---------------|
| Quote: | Y24-110223R2 | Unit: | - |
| Drawn by: | M. FORSBERG | Date: | JUL 07/25 |
| Checked by: | M. FORSBERG | Date: | JUL 07/25 |
| APPROVED BY: | M. FORSBERG | Date: | |
| Job: | 25-8852 | Drawing: | 25-8852-FAB-1 |
| Rev: | 2 | | |


| DESIGN DATA |
|-------------------------|
| LOCATION AB |
| LSD 01-34-065-03 W6M |
| Q-1/50 0.43 kPa |
| Ss 2.2 kPa |
| Sr 0.1 kPa |
| Sa(0.2X) 0.269 |
| Sa(0.5X) 0.238 |
| Sa(1.0X) 0.136 |
| Sa(2.0X) 0.0743 |
| Sa(5.0X) 0.042 |
| Sa(10.0X) 0.026 |
| PGA - |




| PERMIT TO PRACTICE STRAIGHT-UP METAL BUILDINGS LTD. |
|--|
| RM SIGNATURE: <i>Max Forsberg</i> |
| RM APEGA ID #: ID# 96210 |
| DATE: 2025-11-07 |
| PERMIT NUMBER: P012663 The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |

| GENERAL NOTES FOR BUILDING: | | | | | | | | | | Straight-Up Metal Buildings Ltd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|---------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|----------------|------|------------------|--------|---------------|----|---------|----|---------|-----------------|-------|-----------|-----------------|----------------|-------|-----------------|-------------|-----------|-----------------|----------------|-------|---------------------------|-------------|------------------|---------------------------|-----------------|-----------|---------------------------------|-------------|---------|-----------|-------------|---------|-------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|-----------|-----|---------|--------|-------------|---------|
| <p>GENERAL NOTES:</p> <p>1. BUILDING PACKAGE CONFORMS TO: – NATIONAL BUILDING CODE 2023–ALBERTA EDITION</p> <p>2. GROUP F DIVISION 3 OCCUPANCY CATEGORY AS PER NATIONAL BUILDING CODE CANADA 2020, TABLE 3.1.2.1</p> <p>BUILDING IMPORTANCE CATEGORY – NORMAL</p> <p>BUILDING COMPONENTS:</p> <p>– EXTERIOR WALL AND ROOF PANELS: 22GA PREPAINTED GALVALUME PANELS CONFORMING TO ASTM A792–09, WITH COATING CONFORMING TO AZ50.</p> <p>SELF–FRAMING PANEL DIMENSIONS:</p> <div></div> <p>BUILDING NOTES:</p> <p>1. MULTI OIL WELL BATTERY BUILDING SHALL BE A GABLE STYLE SELF–FRAMING BUILDING, ERECTED ON A STEEL SKID IN OUR YARD.</p> <p>2. WALL TO CONSIST OF: – 22GA SELF–FRAMING WALL PANELS; – R12 (76mm) INSULATION; – CONTINUOUS 6MIL CERTIFIED POLY VAPOR BARRIER; – 24GA WHITE FLUTED ALUMINUM LINER.</p> <p>3. ROOF TO CONSIST OF: – 22GA SELF–FRAMING ROOF PANELS; – 24GA INSULATION CLIPS 9” DEEP 24GA; – R20 (152mm) INSULATION; – CONTINUOUS 6MIL CERTIFIED POLY VAPOR BARRIER; – 24GA WHITE FLUTED ALUMINUM LINER.</p> <p>4. 1 @ FULL LENGTH ANGLE ICE RAKES</p> <p>5. 1 @ FULL LENGTH EAVES TROUGH C/W GUTTER, DOWNSPOUT AND ELBOW.</p> <p>6. 1 @ 16GA 1829mm W x 2,134mm H R4 INSULATED HOLLOW CORE DOUBLE DOOR C/W: – 16GA DOUBLE DOOR FRAME; – HYDRAULIC CLOSER; – CHECK CHAIN; – TWO (2) 610mm W x 610mm H IWG WINDOWS; – BARREL BOLTS; – DOREX PANIC HARDWARE; – WEATHER STRIPPING; – SWEEPS; – THRESHOLD; – 16GA DOUBLE DOOR CANOPY W/ TWO (2) 16GA VERTICAL SUPPORT CHANNELS.</p> | | | | | | | | | | <p>7. 1 @ 1087mm W x 500mm H ACCESS DOOR</p> <p>8. HVAC</p> <p>(REFER TO DATA SHEETS FOR FULL SPECS; ANY DISCREPANCY BETWEEN THESE DRAWINGS AND DATA SHEETS, THE DATA SHEETS SHALL BE ASSUMED CORRECT)</p> <p>2 @ 12”W x 12”H MANUALLY OPERABLE LOUVER C/W: – FLANGE FRAME; – MANUAL WING NUT CONTROLLER; – BIRD SCREEN; – 22GA STORM HOOD.</p> <p>1 @ SUPPLY ONLY CATADYNE WX24x30 CATALYTIC HEATER C/W: – 20,000 BTUH; – NATURAL GAS CONFIG.; – 12V START; – THERMOSTAT APPLIANCE REGULATOR; – SAFETY SHUT–OFFVALVE; – WALL MOUNT BRACKET AND VENT HOOD ASSEMBLY.</p> | | | | | | | | | | <p>ARCHITECTURAL SCHEDULES</p> <table><tr><td>WALL (EXTERIOR)</td><td>TAN</td><td>QC–8315</td></tr><tr><td>WALL (INTERIOR)</td><td>WHITE ALUMINUM</td><td></td></tr><tr><td>ROOF (EXTERIOR)</td><td>METRO BROWN</td><td>QC–8228</td></tr><tr><td>ROOF (INTERIOR)</td><td>WHITE ALUMINUM</td><td></td></tr><tr><td>WALL FLASHINGS (EXTERIOR)</td><td>METRO BROWN</td><td>QC–8228</td></tr><tr><td>WALL FLASHINGS (INTERIOR)</td><td>CAMBRIDGE WHITE</td><td>QC–8695</td></tr><tr><td>ROOF FLASHINGS (SIDE AND FRONT)</td><td>METRO BROWN</td><td>QC–8228</td></tr><tr><td>ICE RAKES</td><td>METRO BROWN</td><td>QC–8305</td></tr><tr><td>EAVESTROUGH</td><td>METRO BROWN</td><td>QC–8228</td></tr><tr><td>DOWNSPOUTS</td><td>METRO BROWN</td><td>QC–8228</td></tr><tr><td>DOOR FRAME</td><td>METRO BROWN</td><td>QC–8228</td></tr><tr><td>DOOR SLAB</td><td>TAN</td><td>QC–8315</td></tr><tr><td>CANOPY</td><td>METRO BROWN</td><td>QC–8228</td></tr></table> | | | | | | | | | | WALL (EXTERIOR) | TAN | QC–8315 | WALL (INTERIOR) | WHITE ALUMINUM | | ROOF (EXTERIOR) | METRO BROWN | QC–8228 | ROOF (INTERIOR) | WHITE ALUMINUM | | WALL FLASHINGS (EXTERIOR) | METRO BROWN | QC–8228 | WALL FLASHINGS (INTERIOR) | CAMBRIDGE WHITE | QC–8695 | ROOF FLASHINGS (SIDE AND FRONT) | METRO BROWN | QC–8228 | ICE RAKES | METRO BROWN | QC–8305 | EAVESTROUGH | METRO BROWN | QC–8228 | DOWNSPOUTS | METRO BROWN | QC–8228 | DOOR FRAME | METRO BROWN | QC–8228 | DOOR SLAB | TAN | QC–8315 | CANOPY | METRO BROWN | QC–8228 |
| WALL (EXTERIOR) | TAN | QC–8315 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WALL (INTERIOR) | WHITE ALUMINUM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROOF (EXTERIOR) | METRO BROWN | QC–8228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROOF (INTERIOR) | WHITE ALUMINUM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WALL FLASHINGS (EXTERIOR) | METRO BROWN | QC–8228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WALL FLASHINGS (INTERIOR) | CAMBRIDGE WHITE | QC–8695 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROOF FLASHINGS (SIDE AND FRONT) | METRO BROWN | QC–8228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICE RAKES | METRO BROWN | QC–8305 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EAVESTROUGH | METRO BROWN | QC–8228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DOWNSPOUTS | METRO BROWN | QC–8228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DOOR FRAME | METRO BROWN | QC–8228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DOOR SLAB | TAN | QC–8315 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CANOPY | METRO BROWN | QC–8228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | <p>DESIGN DATA</p> <table><tr><td>LOCATION</td><td>AB</td></tr><tr><td>LSD</td><td>01–34–065–03 W6M</td></tr><tr><td>Q–1/50</td><td>0.43 kPa</td></tr><tr><td>Ss</td><td>2.2 kPa</td></tr><tr><td>Sr</td><td>0.1 kPa</td></tr><tr><td>Sa(0.2,X)</td><td>0.269</td></tr><tr><td>Sa(0.5,X)</td><td>0.238</td></tr><tr><td>Sa(1.0,X)</td><td>0.136</td></tr><tr><td>Sa(2.0,X)</td><td>0.0743</td></tr><tr><td>Sa(5.0,X)</td><td>0.042</td></tr><tr><td>Sa(10.0,X)</td><td>0.026</td></tr><tr><td>PCA</td><td>–</td></tr><tr><td>BUILDING WEIGHT:</td><td></td></tr><tr><td>APPROX.</td><td>1,633 kgs</td></tr></table> | | | | | | | | | | LOCATION | AB | LSD | 01–34–065–03 W6M | Q–1/50 | 0.43 kPa | Ss | 2.2 kPa | Sr | 0.1 kPa | Sa(0.2,X) | 0.269 | Sa(0.5,X) | 0.238 | Sa(1.0,X) | 0.136 | Sa(2.0,X) | 0.0743 | Sa(5.0,X) | 0.042 | Sa(10.0,X) | 0.026 | PCA | – | BUILDING WEIGHT: | | APPROX. | 1,633 kgs | | | | | | | | | | | | | | | | | | | | | |
| LOCATION | AB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LSD | 01–34–065–03 W6M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q–1/50 | 0.43 kPa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ss | 2.2 kPa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sr | 0.1 kPa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sa(0.2,X) | 0.269 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sa(0.5,X) | 0.238 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sa(1.0,X) | 0.136 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sa(2.0,X) | 0.0743 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sa(5.0,X) | 0.042 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sa(10.0,X) | 0.026 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PCA | – | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUILDING WEIGHT: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APPROX. | 1,633 kgs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | <p>TRIPLE SSS</p> <p>FLARE KNOCKOUT DRUM BUILDING KARR MULTI WELL OIL BATTERY ARCHITECTURAL – FLOOR PLAN & SECTION</p> <table><tr><td>SCALE</td><td>DRAWING NUMBER</td><td>VDRL</td><td>REV</td></tr><tr><td></td><td>25–8852–BLD–1</td><td></td><td>2</td></tr></table> | | | | | | | | | | SCALE | DRAWING NUMBER | VDRL | REV | | 25–8852–BLD–1 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCALE | DRAWING NUMBER | VDRL | REV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 25–8852–BLD–1 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| NO. | DATE | REVISION | DRN | CHK | ENG | APR |
|-----|-----------|-------------------------|-----|-----|-----|-----|
| 0 | 06 MAY/25 | ISSUED FOR APPROVAL | MO | JV | MF | |
| 0A | 23 JUN/25 | RE–ISSUED FOR APPROVAL | AG | JV | MF | |
| 1 | 08 JUL/25 | ISSUED FOR CONSTRUCTION | MF | JV | MF | |
| 2 | 06 NOV/25 | AS BUILT | AR | JV | MF | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |



PERMIT TO PRACTICE
STRAIGHT-UP METAL BUILDINGS LTD.
RM SIGNATURE: *Max Forsberg*
RM APEGA ID #: ID# 96210
DATE: 2025-11-07
PERMIT NUMBER: P012663
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

| CLIENT/VENDOR | CONSULTANT LOGO | ENGINEERING RECORD | | | | | | | | | | | | |
|---------------|---|---|--------------|------------|-------------|-----------|------------|------------|-------------|------------|----------|--|------|------|
| |  | <table><tr><th>BY</th><th>DATE</th></tr><tr><td>DRAWN MO</td><td>05 MAY/25</td></tr><tr><td>CHECKED JV</td><td>... MAY/25</td></tr><tr><td>DESIGNED MF</td><td>... MAY/25</td></tr><tr><td>REVIEWED</td><td></td></tr><tr><td>P.O.</td><td>5895</td></tr></table> | BY | DATE | DRAWN MO | 05 MAY/25 | CHECKED JV | ... MAY/25 | DESIGNED MF | ... MAY/25 | REVIEWED | | P.O. | 5895 |
| BY | DATE | | | | | | | | | | | | | |
| DRAWN MO | 05 MAY/25 | | | | | | | | | | | | | |
| CHECKED JV | ... MAY/25 | | | | | | | | | | | | | |
| DESIGNED MF | ... MAY/25 | | | | | | | | | | | | | |
| REVIEWED | | | | | | | | | | | | | | |
| P.O. | 5895 | | | | | | | | | | | | | |
| | | <table><tr><td>CONTRACT No.</td><td>Y24–110224</td></tr><tr><td>PROJECT No.</td><td>25–8852</td></tr></table> | CONTRACT No. | Y24–110224 | PROJECT No. | 25–8852 | | | | | | | | |
| CONTRACT No. | Y24–110224 | | | | | | | | | | | | | |
| PROJECT No. | 25–8852 | | | | | | | | | | | | | |



Certificate of Design and Manufacturing Conformance with NBC, 2020

This Certificate is to affirm that all components of the steel building system described below, to be supplied by the Manufacturer, Straight-Up Metal Buildings Ltd., certified in accordance with CSA A660, have been or will be designed and fabricated in accordance with the following Standards to carry the loads and load combinations specified.

1. DESCRIPTION:

| | |
|---|---|
| Manufacturer's Name and Address | Straight-Up Metal buildings Ltd. 98 Carmek Blvd. Rocky View County, AB, T1X 1X1 |
| Manufacturer's Certificate No. under CSA A660 | straio |
| Customer Order Number | Straight-Up job 25-8852 |
| Building Type and Size | 2,384mm W x 4,775mm L x 3,734mm H Shed Style Building |
| Intended Use and Occupancy | Group F division 3 |
| Importance Category (NBC, Sentence 4.1.2.1.(3)) | Normal |
| Site Location | 01-34-065-03 W6M |
| Applicable Building Code | National Building Code 2023- Alberta Edition |
| Builder's Name and Address | Straight-Up Metal buildings Ltd. 98 Carmek Blvd. Rocky View County, AB, T1X 1X1 |
| Owner's Name and Address | CNRL |

2. DESIGN STANDARDS

National Building Code of Canada, 2020, Part 4: Structural Design

CAN/CSA-S16-19, Limit States Design of Steel Structures

CAN/CSA-S136-16, North American Specification for the Design of Cold-Formed Steel Structural Members

Other (specify) CSA A277

Engineer's Initials*

MF

Dated 25-Jun-25

3. MANUFACTURING STANDARDS

- (A) Fabrication has been or will be in accordance with CAN/CSA-S16 and CAN/CSA-S136, as applicable
- (B) Welding has been or will be performed in accordance with CSA W59 and CAN/CSA-S136, as applicable
- (C) The Manufacturer has been certified in accordance with CSA W47.1, for Division 1 or 2, and/or CSA W55.3, if applicable
- (D) Welders have been qualified in accordance with CSA W47.1

4. PURLIN STABILITY

N/A

Purlin braces are provided in accordance with CAN/CSA-S136, Clause D3 and Appendix B, Clause D3.2.3. In particular, for a standing seam roof supported on movable clips, braces providing lateral support to both top and bottom purlin flange have been or will be provided. The number of rows is determined by analysis but in no case is less than 1 for spans up to 7m inclusive or less than 2 for spans greater than 7m.

5. LOADS

(A) Snow and Rain Load

| | | |
|---|------|-------|
| 1-in-50 year ground snow load, Ss, | 2.2 | (kPa) |
| 1-in-50 year associated rain load, Sr, | 0.1 | (kPa) |
| Wind exposure factor, Cw, | 1 | |
| Importance Factor, Is, | 1 | |
| Roof snow load, S, | 1.86 | (kPa) |
| Drift load considered (NBC Sub-section 4.1.6.2.8) refer to drawing of specific building | | |
| Specified rain load (NBC, Article 4.1.6.4) | - | (mm) |

*Initial each true statement. Mark N/A if statement does not apply.



Certificate of Design and Manufacturing Conformance with NBC, 2020

5. LOADS con't...

(B) Full and Partial Snow Load

- (i) Applied on any one and any two adjacent spans of continuous purlins
(ii) Applied on any one and any two adjacent spans of modular rigid frames with continuous roof beams
(iii) Applied as described for the building geometry in NBC 2020, Part 4.1.6.

Engineer's Initials*
N/A

(C) Wind Load

I-in-50 year reference velocity pressure 0.43 (kPa)
Importance Factor, Iw 1

(D) Wind Load Application

- (i) Applied as per NBC, Part 4, Sub-section 4.1.7
(ii) Pressure coefficients as per NBC 2020 Part 4.1.7, Figures 4.1.7.6-A - 4.1.7.6-H.
(iii) Building internal pressure Category 1 per NBC 2020, Part 4.1.7, Table 4.1.7.7.

(E) Crane Loads (where applicable)

Type N/A (top running)(under-running)(jib)
Capacity N/A (tonnes)
Wheel Base N/A (m)
Maximum Static, vertical wheel load N/A (kN)
Vertical impact factor N/A %
Lateral Factor N/A % Lateral Wheel Load N/A (kN)
Longitudinal Factor N/A % Maximum Longitudinal Load N/A (kN/side)

(F) Mezzanine Live Load

N/A (kPa)

(G) Seismic Load:

Applied as per NBC, Part 4, Sub-Section 4.1.8 S (0.2,X) 0.269 S (0.5,X) 0.238 S (1.0,X) 0.136 S (2.0,X) 0.0743 S (5.0,X) 0.042 S (10.0,X) 0.026
I_e 1

(H) Other Live Loads (specify)

1.0 kPa live load on roof

(I) Dead Loads

Dead Load of building components is incorporated in the design

Collateral load (mechanical, electrical, ceiling, sprinklers, etc.)

Mezzanine N/A (kPa) Other (Specify) 0.5 (kPa)

(J) Load Combinations

Applied in accordance with NBC, Part 4, Section 4.1.
1.25D+1.5S, 0.9D+1.4W

6. GENERAL REVIEW DURING CONSTRUCTION

The Manufacturer, Straight-Up Metal Buildings Ltd., does not provide general review during construction for regulatory purposes.

**Initial each true statement. Mark N/A if statement does not apply.*

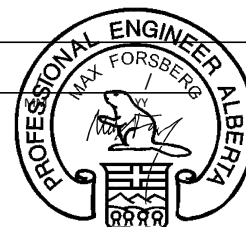
7. CERTIFICATION BY ENGINEER

I Max Forsberg, a Professional Engineer registered or licensed to practice in the Province or Territory of Alberta, hereby certify that I have reviewed the design and manufacturing process for the steel building system described. I certify that the foregoing statements, initialed by me, are true.

NAME Max Forsberg
TITLE P.Eng
AFFILIATION Straight-Up Metal Buildings Ltd

SIGNATURE _____
DATE DD

Professional Seal



ID# 96210
2025-06-24

