CITY OF HASTINGS
HASTINGS, NEBRASKA

ADDENDUM NO. 3
8/20/25

WEC UNIT 1 FLY ASH SILO
MECHANICAL CONSTRUCTION
WHELAN ENERGY CENTER, UNIT 1

Contract No. HU 2025-72

- Updated PT-333-05 to Rev B. Corrected errors in valve numbers, sizes, and connection types.
- Added UCC drawing 378-0154-01 showing filter separator platform and ladder.
- Clarifications:
  - All pipe supports (as shown on SD-55650-05-001 through -081) from UCC are assembled and ready to be installed.
  - T-Post Pipe rack and Auxiliary Steel Silo Roof Tower (as shown on drawings ASD-55650-05-001, -002, -011, -012, -021, and -022) are supplied by UCC but not assembled.

CITY OF HASTINGS

By Brandon Miller

Title Mechanical Engineer

The undersigned bidder hereby certifies that the revision set forth in this addendum have been incorporated in their bid and are a part of the contract documents.

Signed _____

Title _____

Firm _____

Date _____

ALL ISSUED ADDENDUM(S) MUST BE ACKNOWLEDGED
& RETURNED WITH YOUR BID DOCUMENTS

VALVE LIST - VALVES PURCHASED BY CONTRACTOR WEC 1 FLY ASH SILO								8/19/2025 REV B
VALVE NUMBER	SIZE	TYPE	MATERIAL	CLASS	CONNECTION	MAX PRESSURE	DESCRIPTION	P&ID NO.
1ASB - BV - 1107	1/2"	BALL	CARBON STEEL	CLASS 200	NPT	-	ISOLATION VALVE FOR PT-1252	M-55650-05-005
1ASB - BV - 1118	1/2"	BALL	CARBON STEEL	CLASS 200	NPT	-	ISOLATION VALVE FOR PS-1262	M-55650-05-006
1ASB - BV - 1119	1/2"	BALL	CARBON STEEL	CLASS 200	NPT	-	ISOLATION VALVE FOR PT-1256	M-55650-05-006
1ASB - BV - 1121	1/2"	BALL	CARBON STEEL	CLASS 200	NPT	-	ISOLATION VALVE FOR PI-1282	M-55650-05-006
1CAA - BV - 1122	1/4"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE FOR ASB-ABV-1109	M-55650-05-006
1CAA - BV - 1123	1/4"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE FOR ASB-ABV-1110	M-55650-05-006
1CAA - BV - 1124	1/4"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE FOR ASB-ABV-1124	M-55650-05-006
1CAA - BV - 1125	1/4"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE FOR ASB-ABV-1125	M-55650-05-006
1CAA - BV - 1149	2" / 1"	BALL	CARBON STEEL	CLASS 200	SOCKET WELD or NPT	135 PSI	ISOLATION VALVE FOR FILTER SEPARATOR	M-55650-05-009
1CAA - BV - 1150	2" / 1"	BALL	CARBON STEEL	CLASS 200	SOCKET WELD or NPT	135 PSI	ISOLATION VALVE FOR SILO ROOF AREA	M-55650-05-009
1CAA - BV - 1151	2" / 1"	BALL	CARBON STEEL	CLASS 200	SOCKET WELD or NPT	135 PSI	ISOLATION VALVE FOR UNLOADING FLOOR	M-55650-05-009
1CAA - BV - 1152	2" / 1"	BALL	CARBON STEEL	CLASS 200	SOCKET WELD or NPT	135 PSI	ISOLATION VALVE FOR MECHANICAL EXHAUSTER AREA	M-55650-05-009
1CAA - BV - 1153	1/4"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE FOR ASB-ABV-1101	M-55650-05-009
1CAA - BV - 1154	1/4"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE FOR ASB-ABV-1102	M-55650-05-009
1CAA - BV - 1155	1/4"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE FOR ASB-ABV-1108	M-55650-05-009
1CAA - BV - 1156	1/4"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE FOR ASB-ABV-1100	M-55650-05-009
1CAA - BV - 1157	1/4"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE FOR ASB-ABV-1103	M-55650-05-009
1CAA - BV - 1158	1/4"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE FOR ASB-ABV-1104	M-55650-05-009
1CAA - BV - 1159	1/4"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE FOR ASB-ABV-1140	M-55650-05-009
1CAA - BV - 1160	1/4"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE FOR ASB-ABV-1141	M-55650-05-009
1CAA - BV - 1161	1/4"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE FOR ASB-ABV-1136	M-55650-05-009
1CAA - BV - 1162	1/4"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE FOR ASB-ABV-1137	M-55650-05-009
1CAA - BV - 1186	1/4"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE FOR ASB-ABV-1183	M-55650-05-009
1CAA - BV - 1395	2"	BALL	CARBON STEEL	CLASS 200	SOCKET WELD or NPT	135 PSI	ISOLATION VALVE SILO SERVICE AIR	M1016
1CAA - BV - 1396	1"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	DRAIN VALVE AIR RECV. 1D	M1016
1CAA - BV - 1397	1" / 1/2"	BALL	CARBON STEEL	CLASS 200	NPT	135 PSI	ISOLATION VALVE PI-1107	M1016
1CAA - PSV - 1398	1"	SAFETY RELIEF	CARBON STEEL	CLASS 200	NPT	135 PSI	SAFETY RELIEF VALVE (SET AT 135 PSI)	M1016

NOTES:

1.) ALL VALVES ARE IN FIELD ROUTED PIPING. CONTRACTOR HAS OPTION TO ADJUST VALVE CONNECTION TYPES AND SIZES TO FIT WITH PIPING ROUTING.
2.) VALVE TYPES AND SIZES PER P&IDS LISTED.

No.	Revision	By	Date
1	New List to Correct Errors	BWM	8/19/25

HASTINGS UTILITIES

CITY OF HASTINGS ENGINEERING DEPT.

SCALE: N.T.S.	CONTRACTOR -	DRN. BY. BWM
DATE: 7/18/25		APPRD. BY. -

WEC1 FLY ASH SILO

VALVE LIST

DRG. NO. PT-333-05

UCC ENVIRONMENTAL

HASTINGS, NE

FILTER RECEIVER

MODEL: 100TB-FRWT-32:S6

GENERAL NOTES:

1) DESIGN PRESSURE IS ±15" HG.

2) SOLENOIDS PREWIRED IN NEMA 4X HOUSING PER DWG 140-0155. ENCLOSURE REQUIRES 110 VAC, 60 HZ FIELD CONNECTION, 6.3 VA MAX CONSUMPTION WITHOUT LOADS. WINTERIZING KIT REQUIRES 110 VAC, 60 HZ FIELD CONNECTION PER DWG 140-0184-C, 53 WATTS POWER CONSUMPTION. NEMA 4 THERMOSTAT.

3) UNIT REQUIRES 90-100 P.S.I. OF CLEAN, DRY AIR FOR TUBULAR BAG PULSE CLEANING.

4) MATERIALS OF CONSTRUCTION (A36 HRS):
CLEAN AIR PLENUM/HOUSING/HOPPER - 3/16" H.R.S.
WINTERIZING KIT - 12 GA. H.R.S. HOUSING & LID, 3/8"Ø H.R.S. ROD DOOR HANDLES, 1" FIBERGLASS INSULATION
DISHED HEAD - 1/4" H.R.S.
TUBE SHEET (SANDWICHED) - 3/16" H.R.S. w/ 1/4" STIFFENERS
INLET/OUTLET FLANGES - SCH 40, 150 LB SLIP ON RAISED FACE ANSI.
INLET/OUTLET COVERS (PRESSURE TESTING) - 1/4" H.R.S. w/ 1/4" STIFFENERS.
ASSEMBLY FLANGES - 1/4" H.R.S.
DISCHARGE FLANGE - 3/8" H.R.S.
HOUSING RING STIFFENERS - 1/4" x 3" H.R.S.
△0 ACCESS DOOR REPAD STEEL - 1/2" H.R.S.
BULK HEADS - CARBON STEEL
AIR HEADER/FITTINGS/BLOW PIPES - 11 GA. H.R.S. TUBE
w/DISHED ENDS, 150# NPT FITTINGS, SCH. 40 PIPE COMPONENTS
SOLENOID TO PULSE VALVE CONNECTING TUBING - 1/4" x 0.025" WALL ASTM B280 SOFT DRAWN COPPER w/ BRASS FERRULE-STYLE COMPRESSION FITTINGS
'DP' INSTRUMENT/GAUGE CONNECTING TUBING - 1/4" x 0.025" WALL ASTM B280 SOFT DRAWN COPPER w/ BRASS FERRULE-STYLE COMPRESSION FITTINGS
STONE BOX - 8" SCH. 40 C.S. PIPE
△0 STONE BOX END FLANGES - 8" 150# SLIP ON RAISED FACE, CARBON STEEL
BLIND FLANGE - 1" H.R.S.
STONE BOX ASSEMBLY HARDWARE - 3/4"-10 GR. 5 PLATED, 3 3/4" LG. BOLTS w/ NY-LOCK NUTS & (2) FLAT WASHERS PER BOLT
VENT STUB - 3" SCH. 40 C.S. PIPE SUPPLIED AND FIELD INSTALLED BY OTHERS
OUTLET STUB - 3/16" H.R.S.
SUPPORT STRUCTURE - 8" x 13.75# H.R.S. 'C' CHANNEL TOP FRAME
5" x 5" x 3/8" H.R.S. ANGLE LEGS
3" x 3" x 1/4" H.R.S. ANGLE CROSS BRACES
3/8" H.R.S. GUSSETS/ASSEMBLY BRACKETS
3/4" H.R.S. LEG FOOT PADS
SUPPORT LUGS - 3/8" H.R.S.
LIFTING LUGS - 1/4" H.R.S. WITH BACKING PLATE
LOCAL PANEL MOUNTING BRACKET - 10 GA H.R.S. & 3/8" H.R.S. w/ PLATED HARDWARE
HORIZONTAL PIPE SUPPORT FOR VERTICAL PIPE - 3/16" H.R.S. STRAP W/ 6" x 8.2# H.R.S. 'C' CHANNEL FRAME & PLATED HARDWARE
△0 VERTICAL PIPE SUPPORT FOR HORIZONTAL PIPE - 3/16" H.R.S. STRAP W/ 5" x 3.7# H.R.S. 'C' CHANNEL, 3"x3"x1/4" ANGLE POST, 1/4" H.R.S. MOUNTING CLIP & PLATED HARDWARE
LEVEL INDICATOR JUNCTION BOX MOUNTING BRACKET - 12 GA. H.R.S.
SOLENOID ENCLOSURE MOUNTING BRACKET - 12 GA. H.R.S.
SIDE ACCESS DOOR - VARIOUS H.R.S. COMPONENTS w/10 GA. H.R.S. PANEL & PLATED HARDWARE
ACCESS DOOR GASKET - 3/8" x 1" WHITE SILICONE
INSPECTION DOOR - 10 GA. H.R.S. w/ 3/8"Ø H.R.S. ROD HANDLE & PLATED HARDWARE
INSPECTION DOOR GASKET - 1/4" WHITE SILICONE
ACCESS LADDER - 3" x 4.1# H.R.S. CHANNEL w/ 1 1/4"Ø H.R.S. RUNGS, 3/8" x 3" H.R.S. FLARED TOP
ACCESS LADDER FOOT PADS - 3" x 3" x 3/8" H.R.S. ANGLE
SERVICE PLATFORM FRAME & BRACES - 2 1/2" x 2 1/2" x 1/4" H.R.S. ANGLE
SERVICE PLATFORM DECK - WELDED OPEN BAR GRATE, NON-SERRATED, 1 1/4" x 3/16" BEARING BARS @ 1 3/16" O.C., 1/4" SQUARE TWISTED CROSS BARS @ 4" O.C., TYPE 19-W-4 OR EQUAL, GALVANIZED CARBON STEEL
PLATFORM HANDRAIL - 1 1/2" x 11 GA. C.R.S. ASTM A-500 or A-513 SQUARE TUBE w/ 1/4" H.R.S. KICK PLATE
LADDER/PLATFORM ATTACHMENT BRACKETS & CLIPS - 1/4" & 3/8" H.R.S.
BAG GRATE - 4" x 4" x 1/4"Ø H.R.S. LOCK CRIMP WIRE CLOTH
POKE HOLE - 3" SCH. 40 PIPE, 12" OAL w/ NPT CAP
VIBRATOR MOUNT - 4" x 5.4# H.R.S. CHANNEL WITH 1/4" H.R.S. BACKING PLATE
LEVEL INDICATOR COUPLING - 150# CARBON STEEL
HALF COUPLINGS - ALL HALF COUPLINGS TO BE MOUNTED WITH THREADS ON THE OUTSIDE
FLANGE ASSEMBLY SEALANT - 100% CLEAR F.D.A. SILICONE CAULK (GE IS808) - TO APPLY TO ANY FIELD CONNECTIONS
ASSEMBLY HARDWARE - GRADE 5 ZINC PLATED STEEL UNLESS NOTED OTHERWISE
STRUCTURE & PLATFORM ASSEMBLY/MOUNTING HARDWARE - ASTM A325 GALVANIZED STEEL w/ WASHER UNDER NUT

5) WELDING SPECIFICATIONS - - PER AWS D1.1 & D1.3
INTERIOR - CONTINUOUS/UNIFORM WELD
EXTERIOR - CONTINUOUS/UNIFORM WELD HOUSING SEAMS AND FLANGES. STITCH WELD STIFFENERS 2" LONG ON 12" CENTERS, BOTH SIDES, STAGGERED. CAULK STIFFENERS BOTH SIDES BETWEEN STITCH WELDS AFTER FINAL PAINTING.
VERTICAL SHEET SEAMS - MUST BE OFFSET A MINIMUM OF 18".
HANDRAILS - ALL BURRS AND WELD SPATTER TO BE REMOVED. WELDS ON TOP RAIL TO BE GROUND SMOOTH ON ALL SIDES.

6) ALL WELDS AND GASKET JOINTS TO BE LEAK TESTED AT 3 PSIG INTERNAL PRESSURE PER UCC ENVIRONMENTAL SPECIFICATION UCC-800 AFTER UNIT IS FULLY ASSEMBLED AND PAINTED. PRIOR TO TESTING TEMPORARILY COVER DISCHARGE FLANGE WITH 3/8" MIN MATERIAL AND ALL OTHERS WITH 1/4" MIN MATERIAL THICKNESS. ANY WELD REPAIR WILL BE RE-PAINTED. 3 5/8"Ø VENT HOLE IN D.A.P. RECOMMENDED TO BE CUT AFTER LEAK TEST IS COMPLETED.

7) MATERIAL FINISH PREPARATION AND FINISH SCHEDULE PER PAINT SPECIFICATION DOCUMENT - 24188PS. UNPAINTED CARBON STEEL SURFACES SUCH AS INTERIOR AND FLANGE MATING SURFACES MAY OXIDIZE DURING TRANSIT OR STORAGE DEPENDING ON ENVIRONMENTAL CONDITIONS.

8) FILTRATION MEDIA - 16 oz. POLYESTER WITH PTFE MEMBRANE (5.81"Ø x 100 1/2" L SBDI).

9) BAG SUPPORT CAGES - 304 S.S., 12 WIRE, 7 GA. WITH INTEGRAL VENTURI (5.625"Ø x 100" L RFTSVP).

10) MAGNEHELIC 'DP' GAUGE IS PROVIDED w/ UNIT, (4) 1/4" TAPS FOR 'DP' LOCATED ON AS SHOWN.

11) (2) 3/4" TAPS FOR 'DP' MEASUREMENT TO BE LOCATED AS SHOWN. INSTRUMENT PROVIDED BY OTHERS.

12) ALL SHOP ASSEMBLED FLANGES TO BE SEALED WITH GASKET CAULKED ON ONE SIDE. IAC RECOMMENDS FIELD ASSEMBLED FLANGES TO BE SEALED WITH CAULK BETWEEN MATING SURFACES IF GASKETS (SUPPLIED BY OTHERS) ARE NOT USED. SEE DRAWING MD504-61.

13) SHIPPING - UNIT IS TO SHIP ASSEMBLED IN ONE PIECE AS SHOWN LYING ON SIDE 'C'. PRESSURE GAUGE, 'DP' GAUGE TUBING, BAGS, CAGES, PLATFORM, LADDER, BALL VALVE AND GASKETS, PIPE SUPPORTS, ITEMS #19, #22 & #23 WILL SHIP LOOSE FOR FIELD ATTACHMENT. ALL OPENINGS TO BE COVERED WITH PLASTIC PIPE PLUGS OR 1/4" PLYWOOD HELD IN PLACE WITH NUTS & BOLTS.

14) I.D. CLASS - O.E.M./PRIVATE LABEL
NO I.A.C. LOGO OR DECAL
NO I.A.C. PAPERWORK
NO I.A.C. PACKING LIST OR BILL
SHOW CLIENT AS SHIPPER

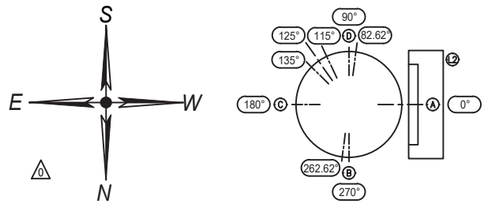
15) WELDING PROCEDURE SPECIFICATIONS (WPS) AND PROCEDURE QUALIFICATION RECORDS (PQR) ARE REQUIRED TO BE SUPPLIED BY THE FABRICATOR FOR THIS PROJECT.

16) MATERIAL TEST REPORTS (MTR) ARE REQUIRED FOR THIS PROJECT.

17) FABRICATE AIR HEADER AND BLOW PIPES PER THE REFERENCED STANDARD 358-0030. FABRICATE CLEAN AIR PLENUM AS SHOWN ON THIS DRAWING.

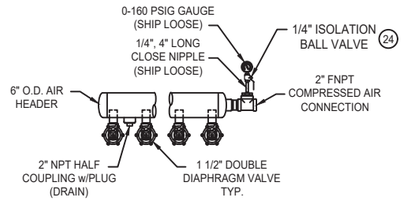
18) FABRICATE ACCESS PLATFORM HANDRAILS WITH 21" EXTENSION AS SHOWN ON THIS DRAWING. USE DRAWING 523-7198 AS REFERENCE.

19) THE (0°) & (A) DESIGNATORS CORRESPOND TO THE AIR HEADER LOCATION ON THE FILTER. ORIENT FINAL ASSEMBLY BY ALIGNING PINS IN TUBESHEET WITH HOLES IN FLANGES. ALIGNMENT HOLES REQUIRED IN TUBE SHEET MATING FLANGES ONLY.



AIR HEADER LOCATION	A / 0°
AIR INLET LOCATION	82.62"
POKE HOLE LOCATION	B / 270°
AIR OUTLET LOCATION	TOP
LEVEL INDICATOR LOCATION	135° △1
ACCESS DOOR (ITEM 4) LOCATION	A
PLATFORM (ITEM 6) LOCATION	A
HOPPER DOOR (ITEM 5) LOCATION	C
LADDER (ITEM 7) LOCATION	L2
EQUALIZING PIPE HOLE LOCATION	A / 0°
VIBRATOR CHANNEL LOCATION	A
LEVEL INDICATOR JB BRACKET	115° △1
TEMP PROBE LOCATION	125°
PANEL MOUNT	270°
AIR OUTLET SUPPORT	115°

△0 ORIENTATIONS



HEADER DETAIL
FOR REFERENCE ONLY

FIELD BOLT LIST			
ITEM	CONNECTION	DESCRIPTION	QTY.
BC1	LADDER CONNECTION	BOLT, 1/2"-13 x 1 1/2" LG., Gr 5, Zn PL NUT, 1/2"-13 (2) FLAT WASHERS PER BOLT	9
BC2	SERVICE PLATFORM CONNECTION	BOLT, 1/2"-13 x 1 1/2" LG., A325 NUT, 1/2"-13 (2) FLAT WASHERS PER BOLT	20
BC3	PANEL MOUNT CONNECTION	BOLT, 1/2"-13 x 1 1/2" LG., Gr 5, Zn PL NUT, 1/2"-13 (2) FLAT WASHERS PER BOLT	5
BC4	HORIZONTAL PIPE SUPPORT CONNECTION	BOLT, 1/2"-13 x 1 1/2" LG., Gr 5, Zn PL NUT, 1/2"-13 (2) FLAT WASHERS PER BOLT	3

ALL HARDWARE TO BE PROVIDED BY FABRICATOR
QUANTITIES INCLUDE 10% EXTRA

UCC Document No.: V-55650-05-00001
Rev.: C

Hastings Utilities - Whelan Energy Center
UCC Environmental Contract No.: 55650-05

UCC Part #: 55650-05-M200
FILTER SEPARATOR, 60" DIAMETER, WALK IN
UCC P&ID #: M-55650-05-006
UCC BOM Item #: M-05-006-1

No.	By	Date	Description of Revision
1	GIL	01/24/2025	CHANGED ORIENTATIONS: LEVEL INDICATOR FROM 145° TO 135° & LEVEL INDICATOR BRACKET FROM 130° TO 115°.
0	SPM	01/13/2025	CERTIFIED FOR CONSTRUCTION

CERTIFIED FOR CONSTRUCTION
DESIGNER SPM DATE: 01/13/2025
APPROVED JMO DATE: 01/13/2025

STANDARD TOLERANCES UNLESS NOTED OTHERWISE:
LINEAR
I. <20": ± 1/16"
II. ≥20": ± 1/8"
HOLES
I. DIAMETER: ± 1/32"
II. LOCATION: ± 1/16"
ANGULAR: ± 0.5°

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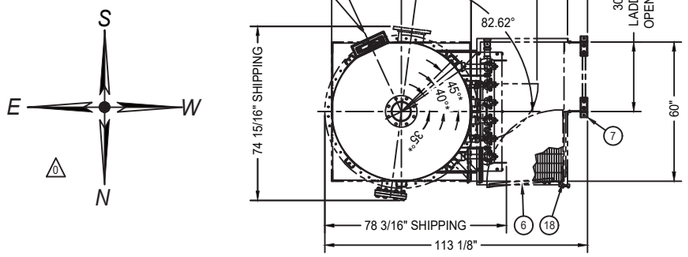
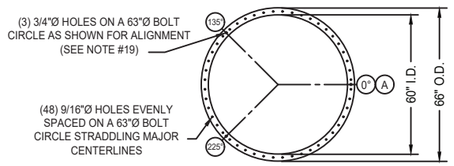
CUSTOMER	UCC ENVIRONMENTAL WHELAN ENERGY CENTER HASTINGS, NE	DRAWN SPM	DATE 11/21/2024
CUSTOMER P.O.	US273444	QTY. 1	JOB NO. 378-0154
DESCRIPTION	GENERAL ARRANGEMENT/INSTALLATION FILTER RECEIVER: 100TB-FRWT-32:S6	DRAWING NO. 378-0154-01 SHT. 1 OF 2	REV. 1

ITEM	PART NO.	DWG NO.	DESCRIPTION	QTY	SUP'R	STATUS
1	SEE NOTE 17	358-0030	AIR HEADER/BLOW PIPES - FRT-32	1	FAB	REF
2	501-0433	501-0433	TUBE SHEET - FRT-32:S6	1	FAB	STD
3	504-0346	504-0346	LIFTING LUG WITH BACKING PLATE	8	FAB	STD
4	504-0179	504-0179	18" x 60" ACCESS DOOR	1	FAB	STD
5	504-0077	504-0077	16"Ø INSPECTION DOOR	1	FAB	STD
6	SEE NOTE 18	523-7198	FRWT FRONT ACCESS SERVICE PLATFORM	1	FAB	REF
7	522-7007	522-7007	ACCESS LADDER	1	FAB	STD
8	378-0154-100	378-0154-100	SUPPORT STRUCTURE	1	FAB	SUBASSY
9	378-0154-200	378-0154-200	HOPPER DETAIL	1	FAB	SUBASSY
10	378-0154-300	378-0154-300	DIRTY AIR PLENUM: FRWT-32:S6	1	FAB	SUBASSY
11	378-0154-400	378-0154-400	CLEAN AIR PLENUM: FRWT-32:S6	1	FAB	SUBASSY
12	378-0154-401	378-0154-401	FRWT-32 WINTERIZING KIT, NEMA 4	1	FAB	STD
13	378-0154-402	378-0154-402	WINTERIZING KIT HEAT CABLE INSTALLATION, NEMA 4	1	FAB	STD
14	378-0154-500	378-0154-500	PANEL MOUNTING BRACKET DETAIL	1	FAB	SUBASSY
15	- -	- -	NOT USED	-	-	-
16	378-0154-700	378-0154-700	VERTICAL PIPE SUPPORT FOR HORIZONTAL PIPE	1	FAB	SUBASSY
17	209-0916	209-1142-C	DWYER/DCT TIMER BOX, N4X, 6 VLVS, 110VAC	1	IAC	SUBASSY
18	211-0148	- -	SAFETY GATE, 28 3/4"-32 1/2", YELLOW	1	IAC	-
19**	208-0001	- -	DWYER 2015 MAGNEHELIC 'DP' GAUGE, 0-15" WG	1	IAC	-
20	563-4012	563-4012	4" VIBRATOR CHANNEL w/ BACKING PLATE	1	FAB	STD
21	133-0455	133-0455	HOUSING GASKET, 60" I.D. x 66 O.D., 1/4" THK	3	IAC	STD
22**	8521T934 McM	(OR EQUIVALENT)	HIGH TEMP SILICONE PIPE GASKET FOR 8" 150# ANSI	3	IAC	-
23**	204-0008	- -	TUBE, 1/4"Ø COPPER (SHIP LOOSE)	30'	FAB	STD
24	77-101-01	APOLLO	1/4" FNPT BRONZE VALVE (SHIP LOOSE)	1	IAC	-

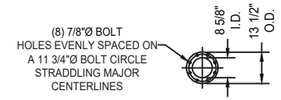
** ITEM NOT SHOWN AND SHIPS LOOSE



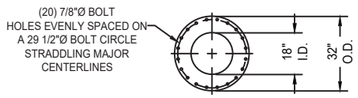
0 TOP VIEW
SOME ITEMS SHOWN IN PHANTOM
* CENTERLINES OF 'DP' TAPS



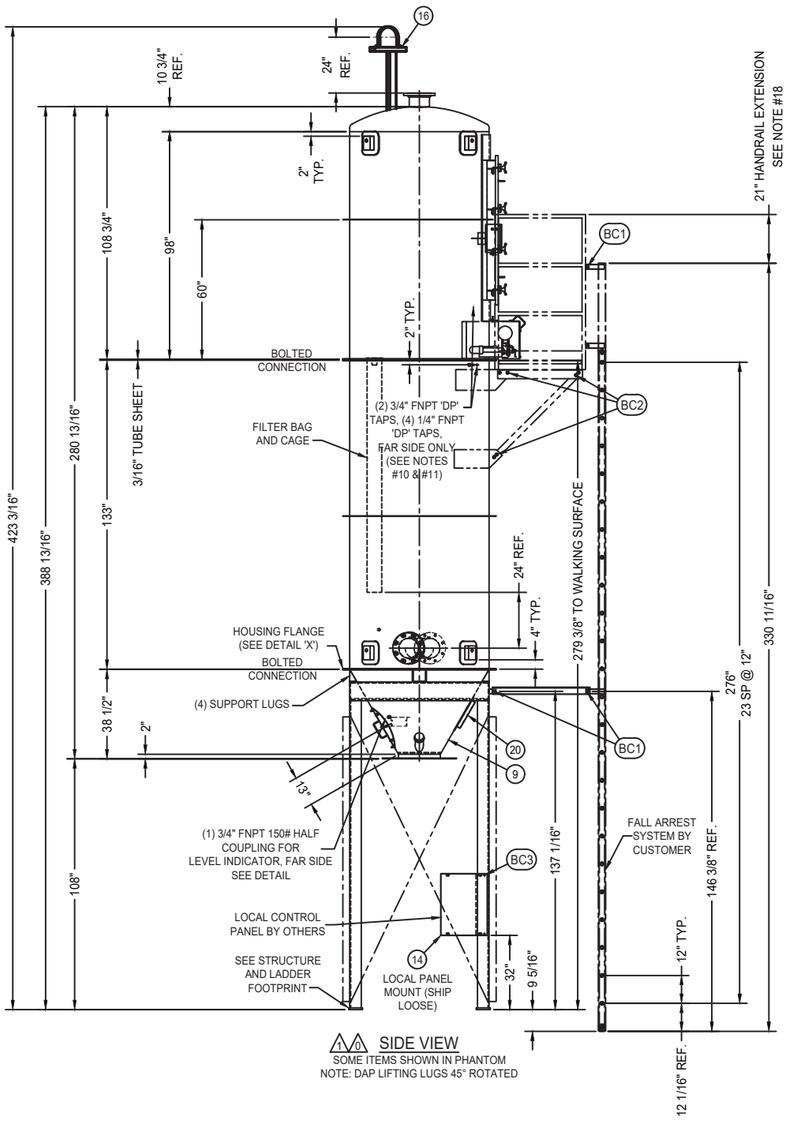
HOUSING FLANGE DETAIL 'X'
IAC STANDARD BOLT PATTERN



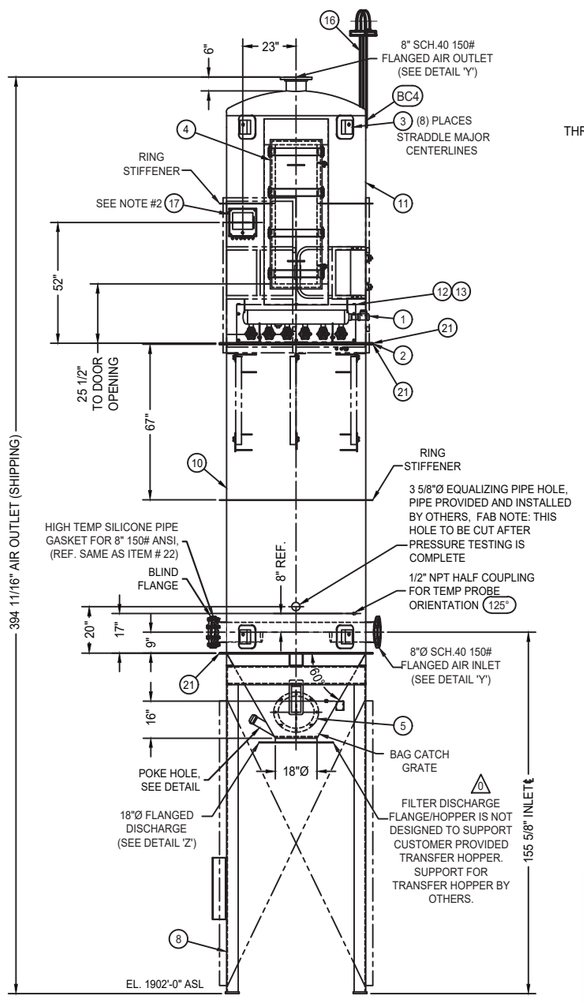
AIR INLET/OUTLET FLANGE DETAIL 'Y'
8" 150# ANSI PATTERN



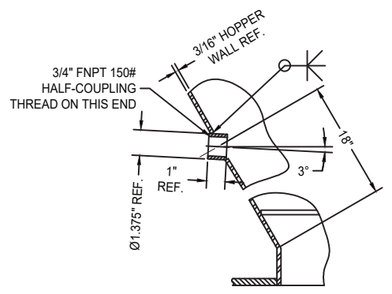
HOPPER DISCHARGE FLANGE DETAIL 'Z'
MATES TO CUSTOMER'S TRANSFER HOPPER



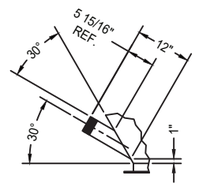
0 0 SIDE VIEW
SOME ITEMS SHOWN IN PHANTOM
NOTE: DAP LIFTING LUGS 45° ROTATED



0 0 FRONT VIEW
SOME ITEMS SHOWN IN PHANTOM
LADDER NOT SHOWN



0 LEVEL INDICATOR COUPLING DETAIL
SCALE 8x
ORIENTATION 135° 1

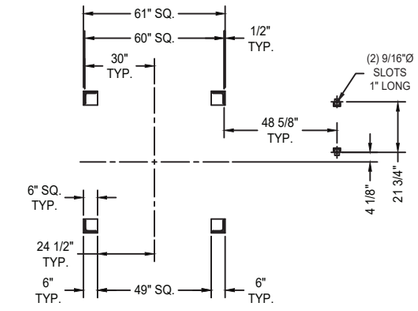


POKE HOLE DETAIL
PIPE CAP NOT SHOWN
SCALE 2X
ORIENTATION 270°

LADDER MOUNTING ANGLES
FABRICATION MOUNTING DETAIL

LOAD CHART			
LOAD	LATERAL LOAD (KIPS)	VERTICAL LOAD (KIPS)	LONGITUDINAL LOAD (KIPS)
DEAD	-	4.1	-
DUST	-	1.0	-
LIVE	-	0.75	-
WIND LATERAL (±)	± 1.18	± 21.4	-
WIND LONGITUDINAL (±)	-	± 21.4	± 1.18
SNOW	-	0.2	-

NOTES:
1) ALL LOADS ARE IN KIPS AND PER COLUMN
2) DUST LOAD BASED ON 70 LBS/CU. FT. LOAD
3) WIND LOAD BASED ON 115 MPH EXP. "C"
4) WIND LOAD GOVERNS OVER SEISMIC LOAD
5) LOADS HAVE NOT BEEN REDUCED
6) ROOF SNOW LOAD = 25 LBS/SQ. FT.
7) WEIGHT OF UCC TRANFER HOPPER INCLUDED



0 STRUCTURE AND LADDER FOOTPRINT

APPLICATION INFORMATION

UNIT APPLICATION:	FILTER RECEIVER
PRODUCT COLLECTED:	FLY ASH
BULK DENSITY:	46-68 LBS/CU. FT.
PARTICLE SIZE:	VARIES
MOISTURE CONTENT:	<1% (ASSUMED)
AIR TEMPERATURE:	230° F (MAX)
AIR VOLUME:	1188-1580 CFM
AIR TO CLOTH RATIO:	3.6 TO 1
INLET LOADING:	4.58 TPH
INTERSTITIAL VELOCITY:	122 FT/MIN.
FILTRATION EFFICIENCY:	.005 GRS/DSCF MAX. EMISSION BETWEEN 2" TO 4" DIFFERENTIAL PRESSURE AND OVER 5 MICRON PARTICLE SIZE

No.	By	Date	Description of Revision
1	GIL	01/24/2025	CHANGED ORIENTATIONS: LEVEL INDICATOR FROM 145° TO 135° & LEVEL INDICATOR BRACKET FROM 130° TO 115°.
0	SPM	01/13/2025	CERTIFIED FOR CONSTRUCTION

STYLE	NO. OF SOL'D. VALVES	NO. OF FILTERS	FILTER LENGTH (IN.)	FILTER AREA SQ. FT.	NORMAL COMP. AIR REQ'D.	MAXIMUM COMP. AIR REQ'D.	SHIP. WEIGHT (LBS.)
III	6	32	100 1/2	433	13.5 CFM	36.0 CFM	8,350

CERTIFIED FOR CONSTRUCTION
DESIGNER SPM DATE: 01/13/2025
APPROVED JMO DATE: 01/13/2025

STANDARD TOLERANCES UNLESS NOTED OTHERWISE:
LINEAR
I. <20": ± 1/16"
II. ≥20": ± 1/8"
HOLES
I. DIAMETER: ± 1/32"
II. LOCATION: ± 1/16"
ANGULAR: ± 0.5°

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(913) 384-5511 IAC-INTL.COM

CUSTOMER: UCC ENVIRONMENTAL
WHELAN ENERGY CENTER
HASTINGS, NE
CUSTOMER P.O. US273444 QTY. 1

DRAWN SPM DATE 11/21/2024 SCALE 32
PART NO. 378-0154 MISC.
JOB NO. 24188 CHK'D. APP'D.
DESCRIPTION GENERAL ARRANGEMENT/INSTALLATION
FILTER RECEIVER: 100TB-FRWT-32:S6
DRAWING NO. 378-0154-02 SHT. 2 OF 2 REV. 1