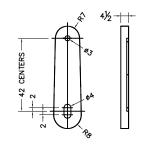


MAIN BUCKET BELT LENGTH 2596" = 216'-4" WDTH 31" WTH 5 HOLES FOR 5/16" BOLTS, 3" HORIZONTAL CENTERS END SPACING = 5 1/2" (235) SPACES © 11" LONG 215'-5" (2585")

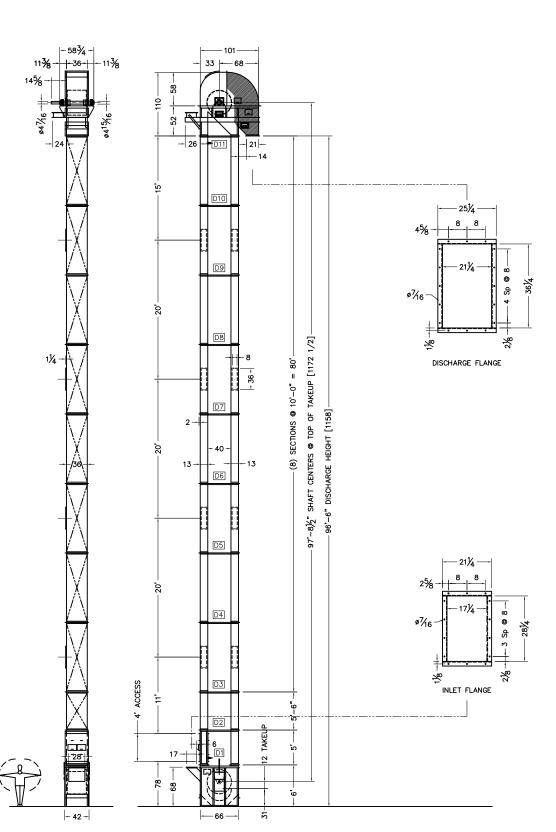
ELEVATOR BELT AND BUCKETS
BUCKET QUANITITY = 227 PER ROW x 2 ROWS = 454
BELT LENGTH, FEET = 216'-4" = 2596" (2 SPACES ADDED)
BUCKET CENTERS = 11"
ROWS = 2 ROWS = 2 SPLICE OR LAP LENGTH, INCHES = 77" @ 7 SPACES HOLES = 2360 @ 5 PER BUCKET CALCULATED FROM: HEAD PULLEY 42" DIAMETER WITH 1/2" LAGGING BOOT PULLET 42" DIAMETER SHAFT CENTERS, INCHES 1172 1/2"

NOTICE: CASING BLOW-OFF PANELS MAY BE LOCATED ON EITHER SIDE OF ELEVATOR. LOCATE PANELS AWAY FROM LADDERS, WALKWAYS, OR PLATFORMS TO MINIMIZE DANGER TO PERSONNEL IN CASE OF FIRE OR EXPLOSION. ALL EXPLOSION RELIEF PANELS MUST BE LOCATED OUTSIDE OF ANY ENCLOSED BUILDING STRUCTURE OR VENTED TO OUTSIDE TO REDUCE THE RISK OF SECONDARY EXPLOSION OR FIRE.



DRIVE GUARD





ESSMUELLER MODEL DF14842 BUCKET ELEVATOR WITH 96'-6" DISCHARGE HEIGHT, REQUIRING 40 HP AT 42 RPM, BASED ON USE OF 2 ROWS OF $14'' \times 8''$ POLYETHYLENE BUCKETS ON 11" VERTICAL CENTERS © WATER LEVEL LOADING FOR 15000 CFH OF DDGS © 32 PCF. BELT SPEED 472 FPM.

AMMIGS SHOW COMPONENTS AND NOMINAL DIMENSIONS. OPTIONS WILL BE SUPPLIED ONLY INDICATED IN THE ORDER ACKNOWLEDGEMENT. IN THE EVENT OF DISCREPANCY, THE XNOWLEDGEMENT SUPERCEDS THIS DETAIL.

| ESSMUELLER BUCKET ELEVATOR: DF14842 |
| DISCHARGE HEICHT 96"-6" (1158") |
| PULLEY SHAFT CENTERS 97"-8 1/2" (1172 1/2") @ TOP OF TAKE-UP |
| HP: 40 HP (WITH MINIMUM 15% EFFICIENCY FACTOR) |
| HEAD PULLEY RPM: 42 |
| BELT SPEED: 472 FPM (CALCULATED WITH 1/2" LAGGING) |
| SIZE BUCKETS: 14" x 8" MAXI-LIFT HD-MAX |
| BUCKETS: POLYETHYLENE WITH YENT PATTERN #4 |
| DUCKET SACING 7" (CALCULATED WITH RUBBER SHAFT SEAL) |
| 2-PIECE HOOD SHELL 14 GAUGE WITH RUBBER SHAFT SEAL |
| 2-PIECE HOOD SHELL 14 GAUGE WITH RUBBER SHAFT SEAL |
| 12-PIECE HOOD SHELL 14 GAUGE WITH RUBBER SHAFT SEAL |
| 12-PIECE HOOD SHELL 14 GAUGE WITH RUBBER SHAFT SEAL |
| 13-PIECE HEAD PULLEY WITH 4 15/16" KEYED ATTES DUSHINGS |
| 14-BOSHAFT DIAMETER @ DRIVE END NECKED TO 4 P.7/16" |
| 14-BOSHAFT DIAMETER @ DRIVE END NECKED TO 4 P.7/16" |
| 15 PIECE STAR WITH DISCHARGE INSPECTION DOOR ON NEAR SIDE |
| 17 TIUNK CASINGS, FLANGED, CONTINUOUS WELDED: 10 GAUGE |
| 17 TIUNK CASINGS, FLANGED, CONTINUOUS WELDED: 10 GAUGE |
| 17 TIUNK CASINGS, FLANGED, CONTINUOUS WELDED: 10 GAUGE |
| 17 TIUNK CASINGS, FLANGED, CONTINUOUS WELDED: 10 GAUGE |
| 17 TIUNK CASINGS, FLANGED, CONTINUOUS WELDED: 10 GAUGE |
| 18 TIUNK CASINGS, FLANGED, CONTINUOUS WELDED: 10 GAUGE |
| 18 TIUNK CASINGS, FLANGED, CONTINUOUS WELDED: 10 GAUGE |
| 18 TIUNK CASINGS, FLANGED, CONTINUOUS WELDED: 10 GAUGE |
| 18 TIUNK CASINGS, FLANGED, CONTINUOUS WELDED: 10 GAUGE |
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| 18 TIUNK CASINGS, FLANGED, CONTINUOUS WELDED: 10 GAUGE |
| 18 TIUNK CASINGS, FLANGED, CONTINUOUS WELDED: 10 GAUGE |
| 18 TIUNK CASINGS, FLANGED, CONTINUOUS WELDED: 10 GAUGE |
| 18 TIUNK DRAWINGS SHOW COMPONENTS AND NOMINAL DIMENSIONS. OPTIONS WILL BE SUPPLIED ONLY IF INDICATED IN THE ORDER ACKNOWLEDGEMENT. IN THE EVENT OF DISCREPANCY, THE ACKNOWLEDGEMENT SUPERCEDES THIS DETAIL.

b. (4) BEARING TEMPERATURE SENSORS
c. (1) DISCHARGE PLUG SWITCH WITH MOUNT ADAPTER (MOUNTED IN DOWNSPOUT BY
d. (1) CONTROL PANEL

VERTICAL AND HORIZONTAL JACK BOLTS FOR HEAD BEARINGS

HEAD WEAR POINTS LINED WITH 1/4" URETHANE

EXPLOSION RELIEF BLOW-OFF PANEL IN HOOD WITH CATCH CHAIN

EXPLOSION RELIEF BLOW-OFF PANELS ON TRUNKING: CHECK OR SPECIFY LOCATIONS
OR CENTER DISTANCE

PAINT: STANDARD ESSMUELLER BLUE PRIMER
BELT AND BUCKETS TO SHIP SEPARATELY

MAIN BELT 216"-4", (2596") LONG

BELT 31" WIDE WITH 5 HOLES FOR 5/16" DIAMETER BOLTS, ON
3" HORIZONTAL x 11" VERTICAL SPACING

SPLICE: 7 BUCKET LAP (MINIMUM)

BELT OR COVERING: FORP 3-PLY 450-PIW RUBBER COVERED

(454) POLYETHYLENE BUCKETS, PUNCHED STANDARD FOR BELT

BUCKETS ARE VENTED WITH PATTERN #4

(2300) 5/16" x 1 1/2" ELEVATOR BOLTS WITH NYLON INSERT LOCK NUTS

(100) 5/16" x 2" ELEVATOR BOLTS WITH NYLON INSERT LOCK NUTS

BOLTS ARE NORWAY #1

TWO BOLTED LAGGING ACCESS PANELS IN HEAD

LAGGING INSPECTION DOORS ON HEAD / HOOD: NEAR SIDE

BOOT INSPECTION DOORS: FAR SIDE

(340) CASING ASSEMBLY BOLTS 3/8"-16 x 1 1/2", WITH HEX NUT, LOCK

WASHER, AND (2) FLAT WASHERS EACH

ESS SPECIFIED, THE FOLLOWING STANDARDS WILL BE USED

UNLESS SPECIFIED, THE FOLLOWING STANDARDS WILL BE USED

DRIVE SIDE: NEAR SIDE
SHAFT-MOUNTED REDUCER IS DODGE TA8407H40
40 HP 230/460VAC 3PH 60HZ RELIANCE STANDARD EFFICINCEY MOTOR
KEYED HEAD SHAFT EXTENSION FOR DRIVE SUPPLIED BY ESSMUELLER
MOTORS TO 7-1/2 HP WITH TORQUE-ARM REDUCER-MOUNTED BASE
LARGER MOTOR MOUNT IS PLATFORM AT UP LEG END OF HEAD
OSHA-SPECIFIED GUARD FOR DRIVE SUPPLIED BY ESSMUELLER
HINGED DISCHARGE THROAT INSPECTION DOORS FAR SIDE
BOLT-ON TRUNK ACCESS PANEL SECTION WILL BE LOCATED IMMEDIATLEY
ABOVE ABOVE BOOT SECTION. IF ALTERNATENATE LOCATION IS DESIRED
(WHEN BOOT IS IN A PIT), LOCATION MUST BE SPEDIFIED.
SWITCHES, OTHER ELECTRICAL COMPONENTS: TE (DUST TIGHT) IS
STANDARD. XP (EXPLOSION PROOF) IS OPTIONAL
BELT, BUCKETS, AND DRIVE COMPONENTS SHIPPED SEPARATELY
FROM ELEVATOR
SHOVEL POCKET, BOOT INSPECTION DOOR, SPEED SENSOR

FROM ELEVATOR
SHOVEL POCKET, BOOT INSPECTION DOOR, SPEED SENSOR
LOCATED ON DRIVE SIDE UNLESS SPECIFIED
ESSMUELLER ELEVATORS ARE DESIGNED TO SUPPORT PLATFORMS
AND DRIVE COMPONENTS ONLY AS NORMALLY SUPPLIED.
LONG, HEAVY SPOUTS MUST NOT BE SUPPORTED SOLELY BY
ELEVATOR DISCHARGE FLANGE. CONTRACTOR OR INSTALLER IS
RESPONSIBLE FOR DETERMINING SUPPORT REQUIREMENTS AND
PROVIDING ADDITIONAL ANCHORNG AND BRACNG
ESSMUELLER ELEVATORS ARE SELF—SUPPORTING, BUT NOT
FREE—STANDING. GUYING IS REQUIRED AT MAXIMIM 20'—O" ELEVATIONS,
WITH UPPRMOST WIRE ROPES NOT MORE THAN 5'—O" FROM HEAD
SHAFT. REQUIREMENT IS WAIVED FOR ELEVATORS INSTALLED WITHIN
SUPPORT TOWERS, OR RIGIDLY ATTACHED TO PERMANENT
BUILDING STRUCTURES
OSHA REQUIRES BREAK IN VERTICAL ASCENT LADDERS AT ELEVATIONS

OSHA REQUIRES BREAK IN VERTICAL ASCENT LADDERS AT ELEVATIONS NOT MORE THAN 30'-0" APART, WHICH REQUIRES WORKERS TO CHANGE TO ALTERNATE LADDER AT PLATFORMS. PURCHASER APPROVAL WITH FEWER LADDERS, CAGES, STEP-OFF PLATFORMS THAN REQUIRED ACKNOWLEDGES OSHA STANDARDS WILL BE SUPPLIED IN FIELD.

IMPORTANT: FEDERAL O.S.H.A. REGULATIONS REQUIRE THAT:

" WHEN LADDERS ARE USED TO ASCEND TO HEIGHTS EXCEEDING 20 FEET. LANDING PLATFORMS SHALL BE PROVIDED FOR EACH 30 FEET OF HEIGHT OR FRACTION THEREOF . . .

EACH LADDER SECTION SHALL BE OFFSET FROM ADJACENT SECTIONS . . .

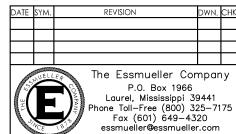
CHAPTER XVII -- PART 1910-27 -- FIG D-10

SOLD TO:

WW CONSTRUCTORS P.O. BOX 231 HAMEL, MN 55340

SHIP TO:

WW CONSTRUCTOS C/O CENTRAL ILLINOIS ENERGY 23133 EAST COUNTY HIGHWAY 6 CANTON, IL 61620



15-MAR-07 JWL SHEET NO: 07-0677 D DWG. TITLE:

DF14842 ELEVATOR x 96'-6" DISCHARGE

TAG: CE8411