

# Installation Manual



## Grain Dryer

**MODELS:**

**DP-DPSL-DPXSL-DPX4T-DPX8GT-DPX12GT-DPX16GT**



## Dryer Installation & Before Startup

The dryer is designed for minimal field erection time, depending on dryer model and associated sections. This may include assembly and installation of the garner bin.

### Before Delivery

- 1) **Site selection: The dryer is not to be operated inside a building or enclosure. Sufficient area around the dryer must be maintained to allow adequate air flow to supply the dryer and to allow exhausted air to escape freely to atmosphere. Do not operate dryer in an area where combustible materials can be drawn into the fans.** Also consider the grain handling systems and the locations of storage bins and existing conveyors in selecting the dryer site. Refer to back page of brochure for general dimensions and specifications.
- 2) **The supply and take away systems** such as fill auger and unload augers should be of sufficient capacity to handle maximum load and unload requirements of each dryer. (Approximately two (2) times each dryer's rated capacity, based on five (5) point moisture removal is recommended.)
- 3) **Dryer is to be set permanently.** Delux maintains recommended foundation drawings for each dryer model that should be followed for new installations. If any doubt, consult local certified engineer for your specific application.
- 4) **Dryer must be level both lengthwise and crosswise at all times during the drying process or damage to the dryer will result.**
- 5) **Consult your local electrical power company for proper transformer sizing. Consult with your local electrician for installation of electrical service.**
- 6) **Consult your propane or natural gas service supplier for locating and sizing tank, meters and regulators.**

### Electrical Hookup

- 1) **All dryers should be equipped with a power disconnect switch ahead of dryer control box to permit total power shut down before opening control box, as required for inspection and service. The power disconnect switch should also be located close to the dryer for quick shut down. Dryer service should be protected by means that will suffice local or state electrical codes.**
- 2) An adequate power supply, proper wire size and electrical grounding are important factors for maximum performance and long dryer life. Electrical service must be of adequate size to prevent low voltage damage to motors and control circuits. See table 2.1 for full load amps per dryer model.

- 3) Dryers are wired for one of the following voltage options: 230V single (1) phase, 208V, 240V, 380V, 415V, 480V or 575V three (3) phase operation. When only 240V single (1) phase power is available, a phase converter may be installed ahead of dryer to obtain three (3) phase power to operate 240V or 480V three (3) phase dryers.
- 4) All motors that are wired at the factory are phased together. If one motor runs backwards, they all will. Simply change the L1 & L3 wire leads around at the distribution block for proper rotation. **(Note: Control design requires wild leg to be connected to terminal "L2" on 240V three (3) phase dryers).**
- 5) The rotation of the fans should be clockwise when looking at the burner downward.
- 6) Check fan motor current, discharge and leveling motor current before and after the dryer is filled with grain. Make certain the current draw on each motor is within the acceptable range.
- 7) The rotation of the discharge auger or drag conveyor should move the grain towards the exit for grain being discharged from the dryer.
- 8) The rotation of the leveling auger or conveyor should move in the direction that pulls grain away from the point of filling the grain dryer.
- 9) Auxiliary starting equipment is supplied as standard equipment. Refer to drawing for properly connecting and interlocking wet loading and dry unloading auxiliary starting equipment located in the electrical control panel. Make certain that the motor overload protection matches the motor being used.
- 10) **Make sure dryer is properly grounded.** A ground lug is provided near the main distribution block
- 11) **Have the power company or your local electrician check line voltage and amperage.** Make sure voltage drop is minimal.
- 12) Prior to running the dryer for the first time, make sure all field electrical connections have been terminated.

### **LP Fuel Systems**

- 1) **Consult your local propane supplier for proper line sizing requirements and local gas codes.** Proper line and pressure requirements should be based off of maximum btu/hr consumption per dryer model. See table 2.2.
- 2) **Dryer must be started on vapor until internal vaporizer is warm, then switched to liquid. Tank must have both vapor and liquid draw available to dryer.**



The dryer is designed to operate on liquid propane drawn from the supply tank. However initial start-up **requires vapor** to be drawn from the tank to allow the dryer to start and warm up. Once the temperature inside the dryer has risen, you may switch over to liquid. Typically a “Y” is installed at the supply tank to feed either liquid or vapor to the LP inlet manifold of the dryer. In other instances running separate lines for both liquid and vapor may be appropriate.

- 3) Normal operating vapor pressure (on regulator) is 10-12 psi. **Do not exceed 20 psi.**
- 4) Before starting the dryer for the first time, make certain that all pipe unions and fittings are properly tightened both inside and outside of the dryer.
- 5) In some cases burner orifices may need to be resized to accommodate varying drying conditions.

#### **E. NG Fuel Systems**

- 1) **Consult your local gas supplier for proper line sizing requirements and local gas codes.** Proper line size and pressure requirements should be based on maximum BTU/HR consumption per dryer model. See table 2.2.
- 2) All natural gas dryers require a pressure regulator near the base of the dryer to minimize pressure fluctuations.
- 3) **Supply pressure to dryer fuel system must not exceed 20 psi.** Normal supply pressure to operate properly is 8-12 psi
- 4) Before starting the dryer for the first time, make certain that all pipe unions and fittings both inside and outside the dryer are properly tightened.
- 5) In some cases burner orifices may need to be resized to accommodate varying drying conditions.

#### **Field Assembly & Erection**

- 1) Unload dryer sections and inspect for damage during shipment. If the dryer has multiple sections, unload so that each section sets on level ground. Block and evenly distribute the weight of the sections at least every 5 feet for the length of the dryer.
- 2) Set the base of the dryer onto the concrete foundation pad. Measure the placement precisely so that the fuel, electricity, load and unload points of the dryer meet where they had been planned for prior. Install the optional leg kit to the bottom frame angle of the dryer and secure. Then secure the leg kit to the foundation.
- 3) When needed, assemble the garner bin using drawing (900-009194). Assemble the garner bin on a flat surface at ground level. Use the lifting eyelets to raise the

assembled garner bin to the top of the dryer (roof) and secure. Variations in dryer models may result in your specific garner bin looking a bit different from the drawing, but the overall assembly objective is the same.

- 4) Make the electrical connections for the high/low fill switch, low grain switch & leveling motor. Check high/low fill switch for proper fill switch settings.
- 5) When needed, assemble the side walkways while the dryer section is on the ground. Remove the bottom bolts from the walkway that secure it parallel to the dryer during shipment. Lift the walkway up so that it is perpendicular to the dryer and install the walkway support angles. Use drawing (900-008640) to install the handrail and fittings.
- 6) When needed, assemble the garner walkway handrail & fittings while the roof section is on the ground. Use drawing (400-008624) to install the handrail and fittings.
- 7) Install the plenum walkway handrail and fittings on the base section. Use drawing (400-008618) to install the handrail and fittings.
- 8) When needed, install the ladders to each dryer section. Base ladders (no cage) are secured to the dryer before shipment. Sections above the base will need to have ladders installed. With the dryer section on the ground, align the ladder upright to determine which bolts on the endwall will need to be removed. Install the ladders in opposite corners of each dryer section. Each ladder cage opening should correspond with a walkway or platform. In some instances a ladder cage may interfere with a side walkway support angle. Route the support angle through the ladder cage if this occurs.
- 9) When needed, lift the burner can(s) into the plenum and secure them to the fan drum(s) before stacking any other sections. Install and connect the burner manifold pipe to each burner. Route the spark plug, flame rod & ground wire through the grommets of the fan drum to the burner.
- 10) When needed, lift empty sections (above the base section) into place. Use tag lines at both ends of the section to keep it aligned with the rest of the dryer. Lower and secure the section into place using the hardware shown on drawing (900-005526).
- 11) Lift the roof (and garner bin) section into place. Use tag lines at both ends of the section to keep it aligned with the rest of the dryer. Lower and secure the section into place using the hardware shown on the illustration erection drawing (900-005523).

- 12) When needed, install and connect the pipes between the fuel manifold and the vaporizer.
- 13) Install the electrical conduit and saddles on the end(s) of the dryer. Route the wire bundle from the top of the dryer through the conduit. Match and connect wire colors or wire numbers in each junction box.
- 14) When needed, install the plenum door assembly using drawing (900-010876)
- 15) When needed, install the drag conveyor using drawing (900-008749 / 900-008750)
- 16) When needed, install the auger trough and auger extension.
- 17) When needed, install the MoistureLink sensor bypass chute to the discharge using drawing (900-010161 / 900-010162)
- 18) Make sure all bolts and screws are in place and tight. Make sure metering rolls and augers are free of any foreign material.
- 19) When needed, remove any section bracing that interferes with walking atop the heat deck (marked in red).
- 20) Before filling the dryer with grain for the first time, check the dryer inside and outside for missing nuts or bolts. Also, check to make sure the feedrolls are clear of any nuts or bolts that may have been dropped in the field assembly process.

### **MoistureLink Discharge System**

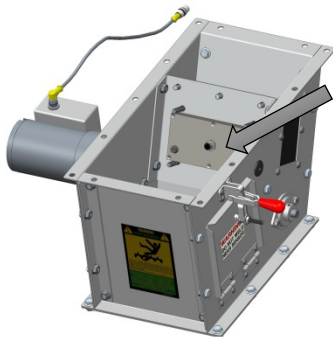
Finishing the installation of the discharge sensor by-pass chute is the only field installation that is required from factory. Care must be taken so that components are not damaged during the installation of other grain handling equipment set in place to carry grain away from the dryer. The discharge sensor located in the by-pass chute is electrically sensitive. Welding, plasma-cutting, or any type of arc-to-ground construction equipment used on the discharge sensor by-pass chute or dryer will void the manufacturer's warranty for the sensor. It is recommended that the sensor be installed after all millwright work has been done on the handling system. It is also recommended that the sensor be removed if any subsequent welding, cutting, etc. is to be done near or around the dryer.

Depending on the dryer installation, there may be variations in the discharge length or type but the by-pass chute assembly is similar for both.

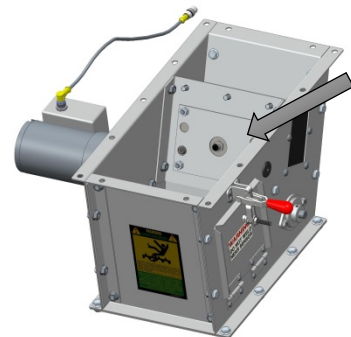
- Install the auger extension trough & auger. This is the portion of the auger and carrying trough that extends past the end of the dryer. If the dryer discharge is a drag conveyor, install the drag conveyor first.

- Use drawing 900-010162 for assembly & dimensioning for discharge auger installations.
- Use drawing 900-010161 for assembly & dimensioning for discharge drag installations.

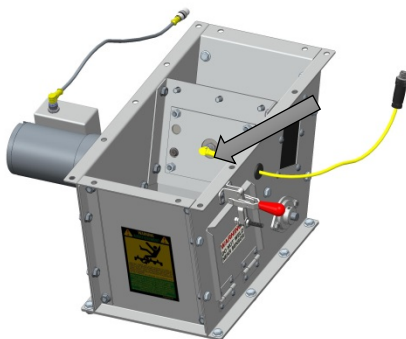
Install the discharge sensor & cable as shown:



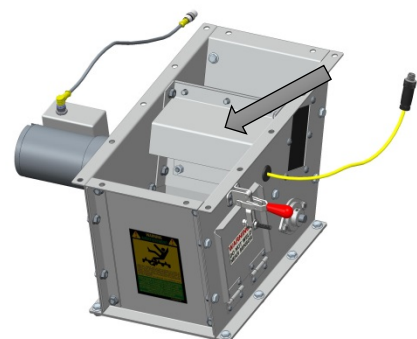
**Step 1**  
*Remove sensor cover & compression plate and install sensor as shown.*



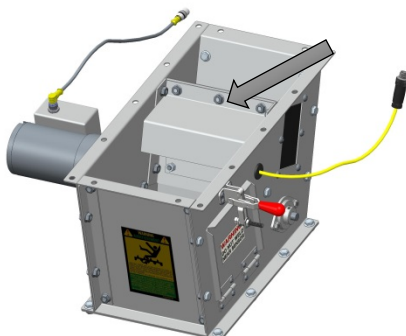
**Step 2**  
*Install sensor compression plate and tighten down with nylon lock nuts provided.*



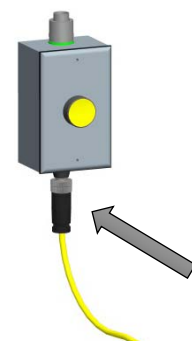
**Step 3**  
*Connect the moisture sensor cable (yellow) to the sensor. Remove the rubber grommet to get the right angle plug through the hole.*



**Step 4**  
*Reinstall the sensor cover plate.*



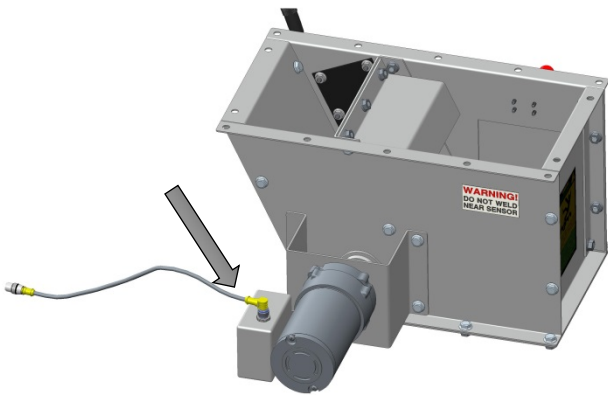
**Step 5**  
*Reinstall all hardware & make sure it is tightened before completing the installation.*



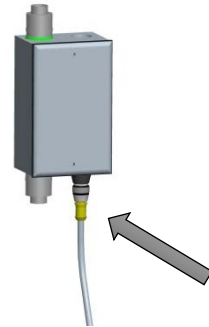
**Step 6**  
*Connect the other end of the moisture sensor cable to the Sensor Calibration Button Junction Box.*



Install the gearmotor cable as shown:



**Step 1**  
*Connect the right angle end of the gearmotor sensor cable (gray) to the gearmotor.*



**Step 2**  
*Connect the other end of the gearmotor sensor cable to the Gearmotor / Discharge Overflow Junction Box.*

TABLE 2.1

MODEL	FT	FULL LOAD AMPS (DRYER ONLY) - MOTOR TAG DATA					
		230V 1P	208V 3P	230V 3P	400V 3P	460V 3P	575V 3P
DP10 (15hp)	10	77.9	N/A	N/A	N/A	N/A	N/A
DP15	15	99.5	N/A	N/A	N/A	N/A	N/A
DP20	20	99.5	N/A	N/A	N/A	N/A	N/A
DP30	30	145.6	N/A	N/A	N/A	N/A	N/A
DP40	40	191.2	N/A	N/A	N/A	N/A	N/A
DPSL10	10	N/A	70.0	61.7	35.6	31.0	24.8
DPSL15	15	N/A	103.1	90.5	53.2	45.4	36.3
DPSL20	20	N/A	130.7	114.5	65.2	57.4	45.9
DPSL25	25	N/A	177.7	159.7	95.8	80.0	64.0
DPSL30	30	N/A	194.2	169.7	95.8	85.0	68.0
DPSL40	40	N/A	260.2	227.1	129.0	113.7	91.0
DPXSL20	20	N/A	171.7	157.3	93.2	77.4	61.9
DPXSL25	25	N/A	180.5	162.1	96.8	81.2	65.0
DPXSL30	30	N/A	258.5	232.1	138.8	116.2	93.0
DPXSL40	40	N/A	356.0	319.1	191.1	159.7	127.8
DPX4T20	20	N/A	177.7	159.7	95.8	80.0	64.0
DPX4T25	25	N/A	280.5	254.1	146.8	127.2	102.2
DPX4T30	30	N/A	264.2	237.1	143.0	118.7	95.0
DPX4T40	40	N/A	356.0	319.1	191.1	159.7	127.8
DPX8GT20	20	N/A	177.7	159.7	95.8	80.0	64.0
DPX8GT25	25	N/A	286.2	259.1	151.0	129.7	104.2
DPX8GT30	30	N/A	264.2	237.1	143.0	118.7	95.0
DPX8GT40	40	N/A	356.0	319.1	191.1	159.7	127.8
DPX12GT20	20	N/A	225.7	203.7	123.8	102.0	81.6
DPX12GT25	25	N/A	328.2	299.1	178.0	149.7	119.8
DPX12GT30	30	N/A	336.2	303.1	185.0	151.7	121.4
DPX12GT40	40	N/A	457.7	412.1	251.3	206.2	165.0
DPX16GT20	20	N/A	277.7	251.7	145.8	126.0	101.2
DPX16GT25	25	N/A	328.2	299.1	178.0	149.7	119.8
DPX16GT30	30	N/A	414.2	375.1	218.0	187.7	150.8
DPX16GT40	40	N/A	561.7	508.1	295.3	254.2	204.2

\*\* FULL LOAD AMPS BASED ON MOTOR TAG DATA AVAILABLE AT DATE PUBLISHED.

\*\* FULL LOAD AMPS DOES NOT INCLUDE ANY AUX. HANDLING EQUIPMENT.

TABLE 2.2

**MINIMUM AND MAXIMUM BTU/HR - ALL**

MODEL	TOTAL CFM	MINIMUM		MAXIMUM		MAX w/Reclaim	
		TEMP. RISE (F)	BTU/HR (MILLION)	TEMP. RISE (F)	BTU/HR (MILLION)	TEMP. RISE (F)	BTU/HR (MILLION)
DP10	14,985	50	0.8	160	2.6	130	2.1
DP15	20,154	50	1.1	160	3.5	130	2.8
DP20	20,154	50	1.1	160	3.5	130	2.8
DP30	30,231	50	1.6	160	5.2	130	4.2
DP40	40,308	50	2.2	160	7.0	130	5.7
DPSL10	17,808	50	1.0	160	3.1	130	2.5
DPSL15	22,896	50	1.2	160	4.0	130	3.2
DPSL20	35,616	50	1.9	160	6.2	130	5.0
DPSL25	45,792	50	2.5	160	7.9	130	6.4
DPSL30	53,424	50	2.9	160	9.2	130	7.5
DPSL40	71,232	50	3.8	160	12.3	130	10.0
DPXSL20	45,792	50	2.5	160	7.9	130	6.4
DPXSL25	57,876	50	3.1	160	10.0	130	8.1
DPXSL30	68,688	50	3.7	160	11.9	130	9.6
DPXSL40	91,584	50	4.9	160	15.8	130	12.9
DPX4T20	57,876	50	3.1	160	10.0	130	8.1
DPX4T25	79,500	50	4.3	160	13.7	130	11.2
DPX4T30	86,814	50	4.7	160	15.0	130	12.2
DPX4T40	115,752	50	6.3	160	20.0	130	16.3
DPX8GT20	57,876	50	3.1	160	10.0	130	8.1
DPX8GT25	79,500	50	4.3	160	13.7	130	11.2
DPX8GT30	86,814	50	4.7	160	15.0	130	12.2
DPX8GT40	115,752	50	6.3	160	20.0	130	16.3
DPX12GT20	68,402	50	3.7	160	11.8	130	9.6
DPX12GT25	88,086	50	4.8	160	15.2	130	12.4
DPX12GT30	102,603	50	5.5	160	17.7	130	14.4
DPX12GT40	136,804	50	7.4	160	23.6	130	19.2
DPX16GT20	79,500	50	4.3	160	13.7	130	11.2
DPX16GT25	88,086	50	4.8	160	15.2	130	12.4
DPX16GT30	119,250	50	6.4	160	20.6	130	16.7
DPX16GT40	159,000	50	8.6	160	27.5	130	22.3

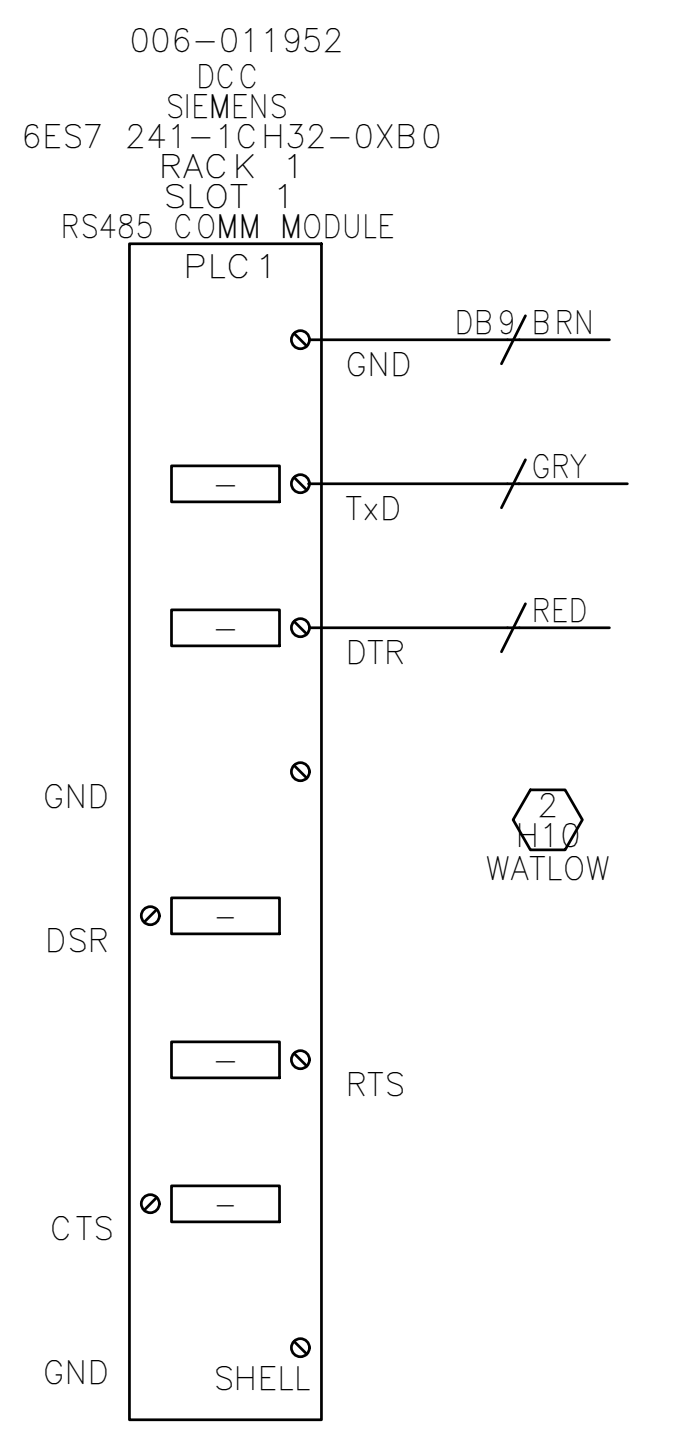
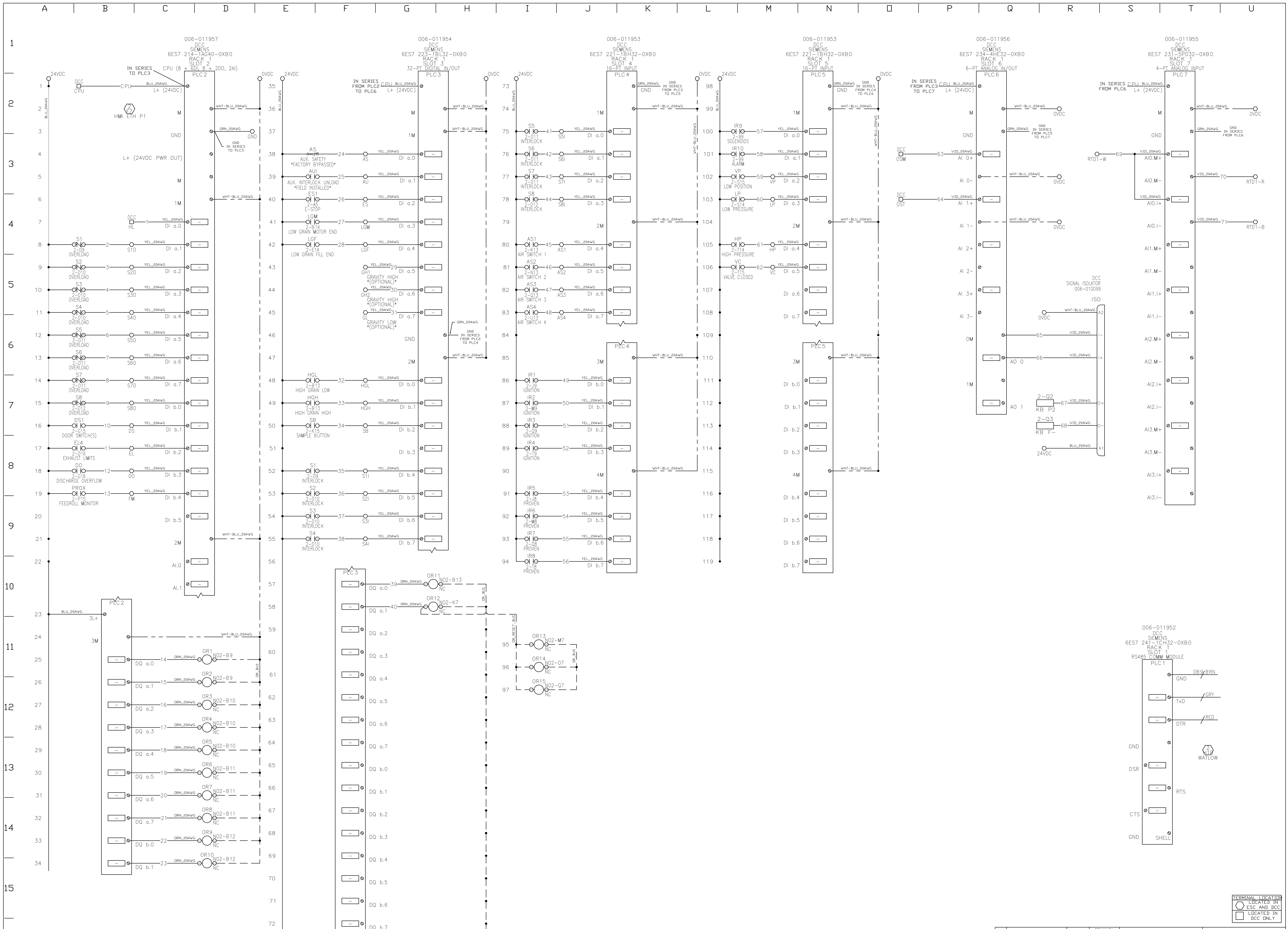
**\*\* OPERATING FUEL CONSUMPTION WILL FALL BETWEEN THE MINIMUM AND MAXIMUM VALUES, AND IS DEPENDENT UPON AMBIENT CONDITIONS AND HEAT RECAPTURE FROM COOLING GRAIN.**











TERMINAL LOCATION  
 LOCATED IN ESC AND DCC  
 LOCATED IN DCC ONLY

DRAWN BY:	AJ Lentzer	DATE:	12/01/2020	CHECKED BY:	
PROJECT:	TEMPLATE		DRAWING NO:	900-012198	
REV	0	SHEET NO.	1	OF	2

006-011952  
 DCC  
 SIEMENS  
 6ES7 241-1BH32-0XB0  
 RACK 1  
 SLOT 1  
 RS485 COMM MODULE

006-011955  
 DCC  
 SIEMENS  
 6ES7 231-7BH32-0XB0  
 RACK 1  
 SLOT 7  
 4-PT ANALOG INPUT

006-011954  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 4  
 16-PT INPUT

006-011953  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 5  
 16-PT INPUT

006-011956  
 DCC  
 SIEMENS  
 6ES7 234-4BH32-0XB0  
 RACK 1  
 SLOT 6  
 6-PT ANALOG IN/OUT

006-011953  
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 SLOT 6  
 6-PT ANALOG IN/OUT

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 SIEMENS  
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 SLOT 7  
 4-PT ANALOG INPUT

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 SLOT 1  
 RS485 COMM MODULE

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 RS485 COMM MODULE

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006-011953  
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 RACK 1  
 SLOT 5  
 16-PT INPUT

006-011956  
 DCC  
 SIEMENS  
 6ES7 234-4BH32-0XB0  
 RACK 1  
 SLOT 6  
 6-PT ANALOG IN/OUT

006-011955  
 DCC  
 SIEMENS  
 6ES7 231-7BH32-0XB0  
 RACK 1  
 SLOT 7  
 4-PT ANALOG INPUT

006-011952  
 DCC  
 SIEMENS  
 6ES7 241-1BH32-0XB0  
 RACK 1  
 SLOT 1  
 RS485 COMM MODULE

006-011954  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 4  
 16-PT INPUT

006-011953  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 5  
 16-PT INPUT

006-011956  
 DCC  
 SIEMENS  
 6ES7 234-4BH32-0XB0  
 RACK 1  
 SLOT 6  
 6-PT ANALOG IN/OUT

006-011955  
 DCC  
 SIEMENS  
 6ES7 231-7BH32-0XB0  
 RACK 1  
 SLOT 7  
 4-PT ANALOG INPUT

006-011952  
 DCC  
 SIEMENS  
 6ES7 241-1BH32-0XB0  
 RACK 1  
 SLOT 1  
 RS485 COMM MODULE

006-011954  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 4  
 16-PT INPUT

006-011953  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 5  
 16-PT INPUT

006-011956  
 DCC  
 SIEMENS  
 6ES7 234-4BH32-0XB0  
 RACK 1  
 SLOT 6  
 6-PT ANALOG IN/OUT

006-011955  
 DCC  
 SIEMENS  
 6ES7 231-7BH32-0XB0  
 RACK 1  
 SLOT 7  
 4-PT ANALOG INPUT

006-011952  
 DCC  
 SIEMENS  
 6ES7 241-1BH32-0XB0  
 RACK 1  
 SLOT 1  
 RS485 COMM MODULE

006-011954  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 4  
 16-PT INPUT

006-011953  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 5  
 16-PT INPUT

006-011956  
 DCC  
 SIEMENS  
 6ES7 234-4BH32-0XB0  
 RACK 1  
 SLOT 6  
 6-PT ANALOG IN/OUT

006-011955  
 DCC  
 SIEMENS  
 6ES7 231-7BH32-0XB0  
 RACK 1  
 SLOT 7  
 4-PT ANALOG INPUT

006-011952  
 DCC  
 SIEMENS  
 6ES7 241-1BH32-0XB0  
 RACK 1  
 SLOT 1  
 RS485 COMM MODULE

006-011954  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 4  
 16-PT INPUT

006-011953  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 5  
 16-PT INPUT

006-011956  
 DCC  
 SIEMENS  
 6ES7 234-4BH32-0XB0  
 RACK 1  
 SLOT 6  
 6-PT ANALOG IN/OUT

006-011955  
 DCC  
 SIEMENS  
 6ES7 231-7BH32-0XB0  
 RACK 1  
 SLOT 7  
 4-PT ANALOG INPUT

006-011952  
 DCC  
 SIEMENS  
 6ES7 241-1BH32-0XB0  
 RACK 1  
 SLOT 1  
 RS485 COMM MODULE

006-011954  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 4  
 16-PT INPUT

006-011953  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 5  
 16-PT INPUT

006-011956  
 DCC  
 SIEMENS  
 6ES7 234-4BH32-0XB0  
 RACK 1  
 SLOT 6  
 6-PT ANALOG IN/OUT

006-011955  
 DCC  
 SIEMENS  
 6ES7 231-7BH32-0XB0  
 RACK 1  
 SLOT 7  
 4-PT ANALOG INPUT

006-011952  
 DCC  
 SIEMENS  
 6ES7 241-1BH32-0XB0  
 RACK 1  
 SLOT 1  
 RS485 COMM MODULE

006-011954  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 4  
 16-PT INPUT

006-011953  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 5  
 16-PT INPUT

006-011956  
 DCC  
 SIEMENS  
 6ES7 234-4BH32-0XB0  
 RACK 1  
 SLOT 6  
 6-PT ANALOG IN/OUT

006-011955  
 DCC  
 SIEMENS  
 6ES7 231-7BH32-0XB0  
 RACK 1  
 SLOT 7  
 4-PT ANALOG INPUT

006-011952  
 DCC  
 SIEMENS  
 6ES7 241-1BH32-0XB0  
 RACK 1  
 SLOT 1  
 RS485 COMM MODULE

006-011954  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 4  
 16-PT INPUT

006-011953  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 5  
 16-PT INPUT

006-011956  
 DCC  
 SIEMENS  
 6ES7 234-4BH32-0XB0  
 RACK 1  
 SLOT 6  
 6-PT ANALOG IN/OUT

006-011955  
 DCC  
 SIEMENS  
 6ES7 231-7BH32-0XB0  
 RACK 1  
 SLOT 7  
 4-PT ANALOG INPUT

006-011952  
 DCC  
 SIEMENS  
 6ES7 241-1BH32-0XB0  
 RACK 1  
 SLOT 1  
 RS485 COMM MODULE

006-011954  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 4  
 16-PT INPUT

006-011953  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 5  
 16-PT INPUT

006-011956  
 DCC  
 SIEMENS  
 6ES7 234-4BH32-0XB0  
 RACK 1  
 SLOT 6  
 6-PT ANALOG IN/OUT

006-011955  
 DCC  
 SIEMENS  
 6ES7 231-7BH32-0XB0  
 RACK 1  
 SLOT 7  
 4-PT ANALOG INPUT

006-011952  
 DCC  
 SIEMENS  
 6ES7 241-1BH32-0XB0  
 RACK 1  
 SLOT 1  
 RS485 COMM MODULE

006-011954  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 4  
 16-PT INPUT

006-011953  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 5  
 16-PT INPUT

006-011956  
 DCC  
 SIEMENS  
 6ES7 234-4BH32-0XB0  
 RACK 1  
 SLOT 6  
 6-PT ANALOG IN/OUT

006-011955  
 DCC  
 SIEMENS  
 6ES7 231-7BH32-0XB0  
 RACK 1  
 SLOT 7  
 4-PT ANALOG INPUT

006-011952  
 DCC  
 SIEMENS  
 6ES7 241-1BH32-0XB0  
 RACK 1  
 SLOT 1  
 RS485 COMM MODULE

006-011954  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 4  
 16-PT INPUT

006-011953  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 5  
 16-PT INPUT

006-011956  
 DCC  
 SIEMENS  
 6ES7 234-4BH32-0XB0  
 RACK 1  
 SLOT 6  
 6-PT ANALOG IN/OUT

006-011955  
 DCC  
 SIEMENS  
 6ES7 231-7BH32-0XB0  
 RACK 1  
 SLOT 7  
 4-PT ANALOG INPUT

006-011952  
 DCC  
 SIEMENS  
 6ES7 241-1BH32-0XB0  
 RACK 1  
 SLOT 1  
 RS485 COMM MODULE

006-011954  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 4  
 16-PT INPUT

006-011953  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 5  
 16-PT INPUT

006-011956  
 DCC  
 SIEMENS  
 6ES7 234-4BH32-0XB0  
 RACK 1  
 SLOT 6  
 6-PT ANALOG IN/OUT

006-011955  
 DCC  
 SIEMENS  
 6ES7 231-7BH32-0XB0  
 RACK 1  
 SLOT 7  
 4-PT ANALOG INPUT

006-011952  
 DCC  
 SIEMENS  
 6ES7 241-1BH32-0XB0  
 RACK 1  
 SLOT 1  
 RS485 COMM MODULE

006-011954  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 4  
 16-PT INPUT

006-011953  
 DCC  
 SIEMENS  
 6ES7 221-1BH32-0XB0  
 RACK 1  
 SLOT 5  
 16-PT INPUT

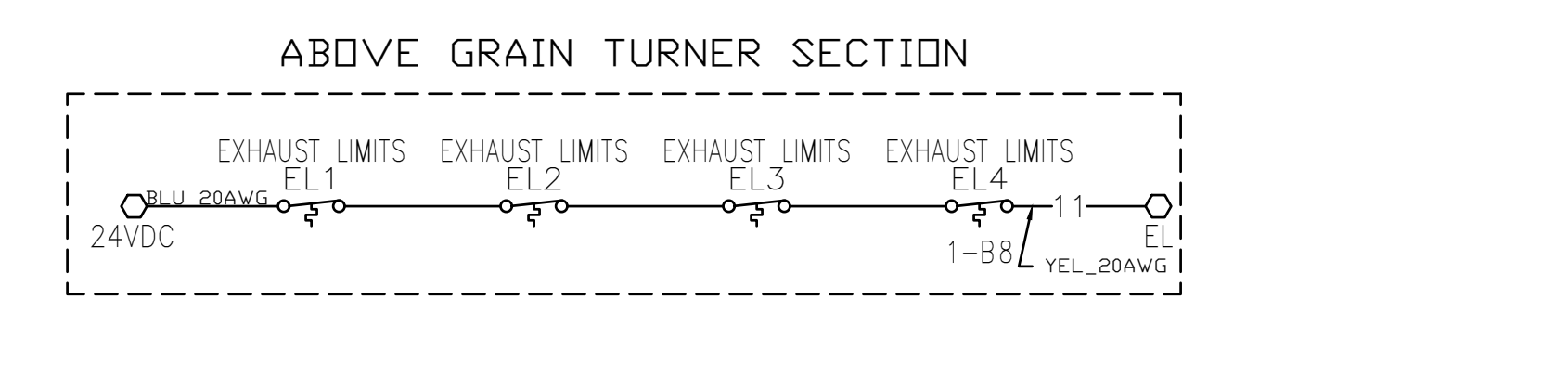
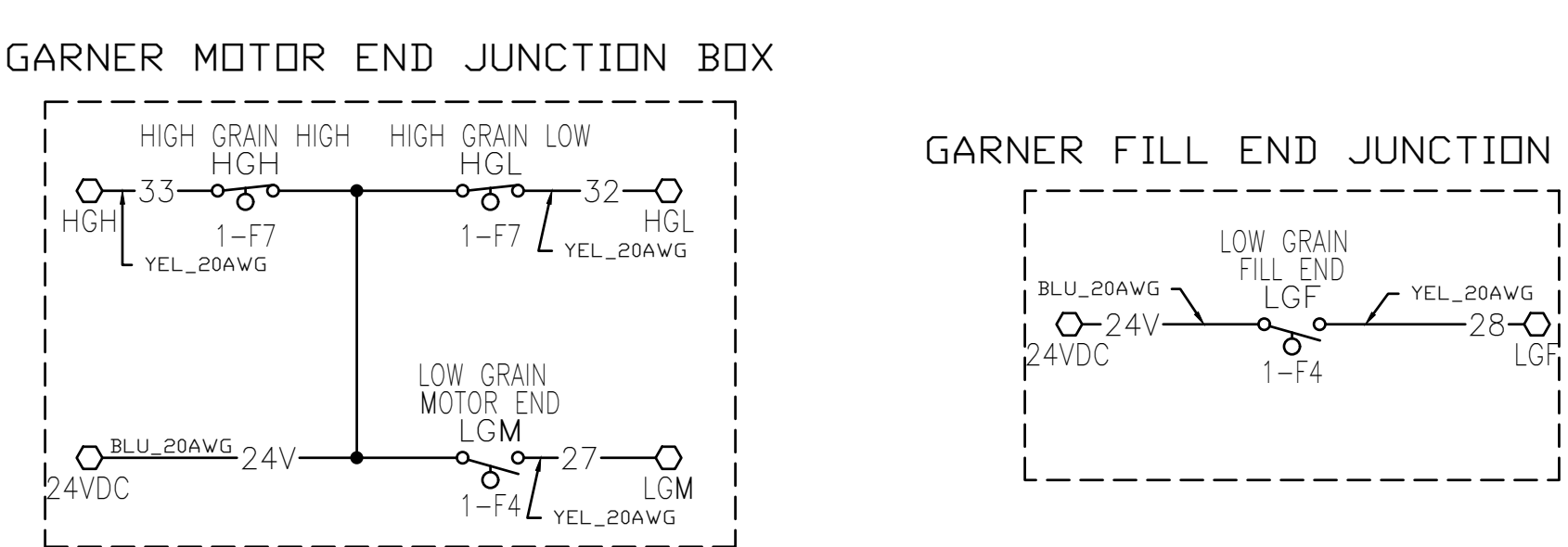
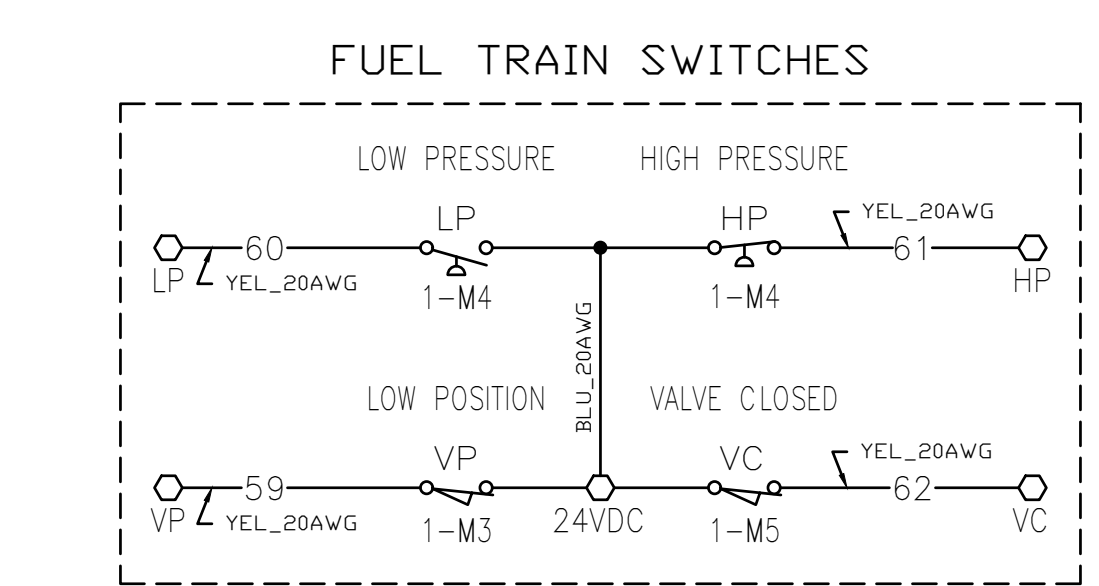
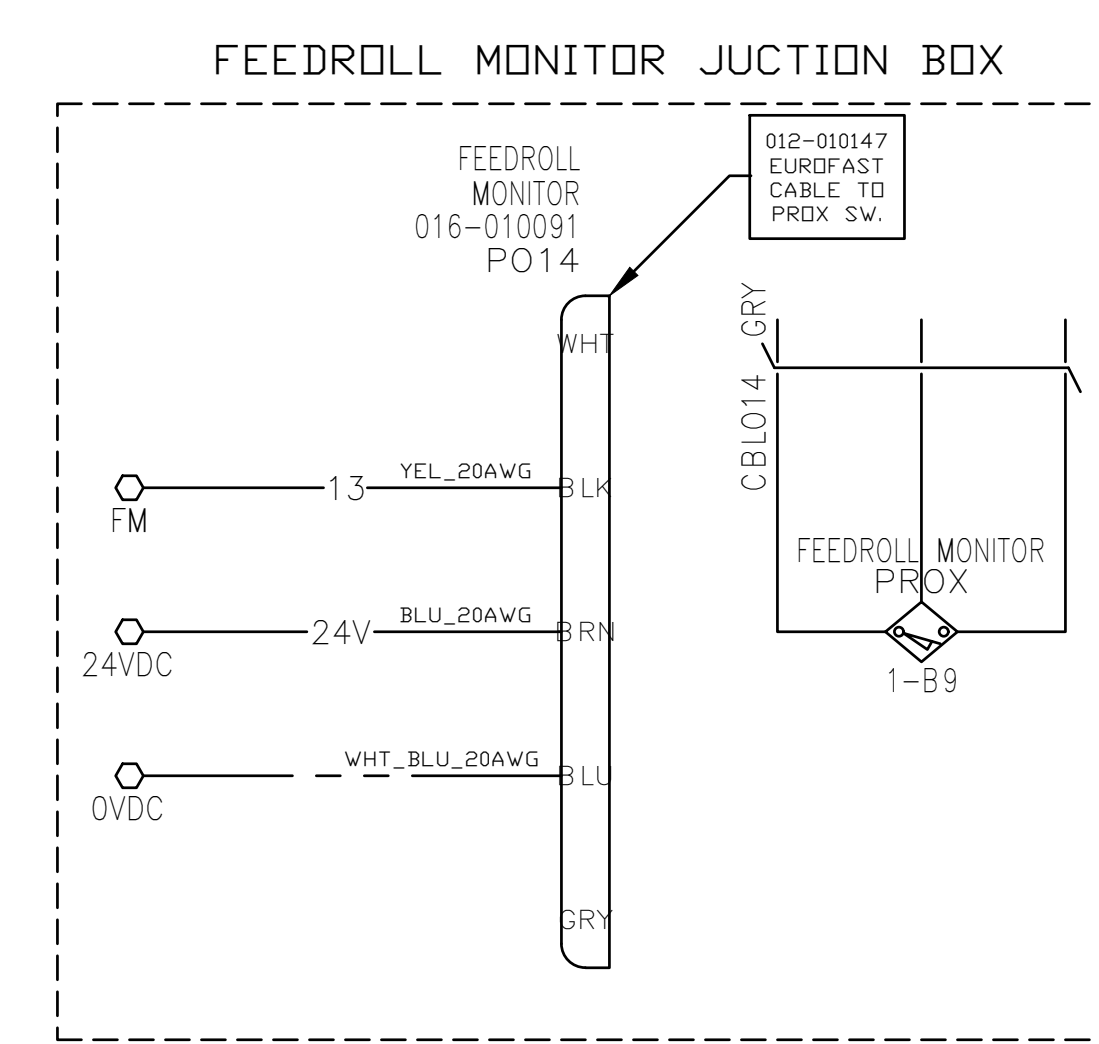
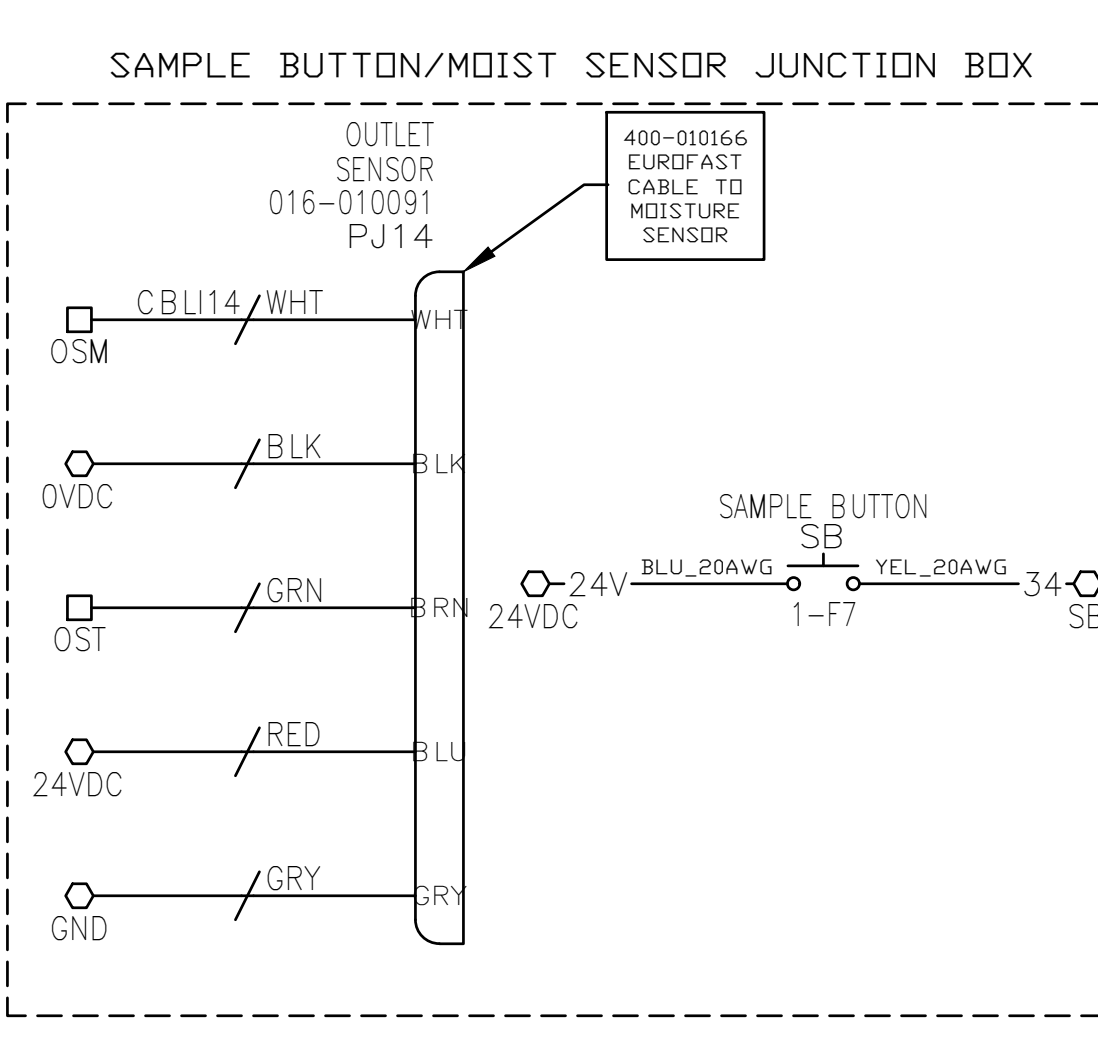
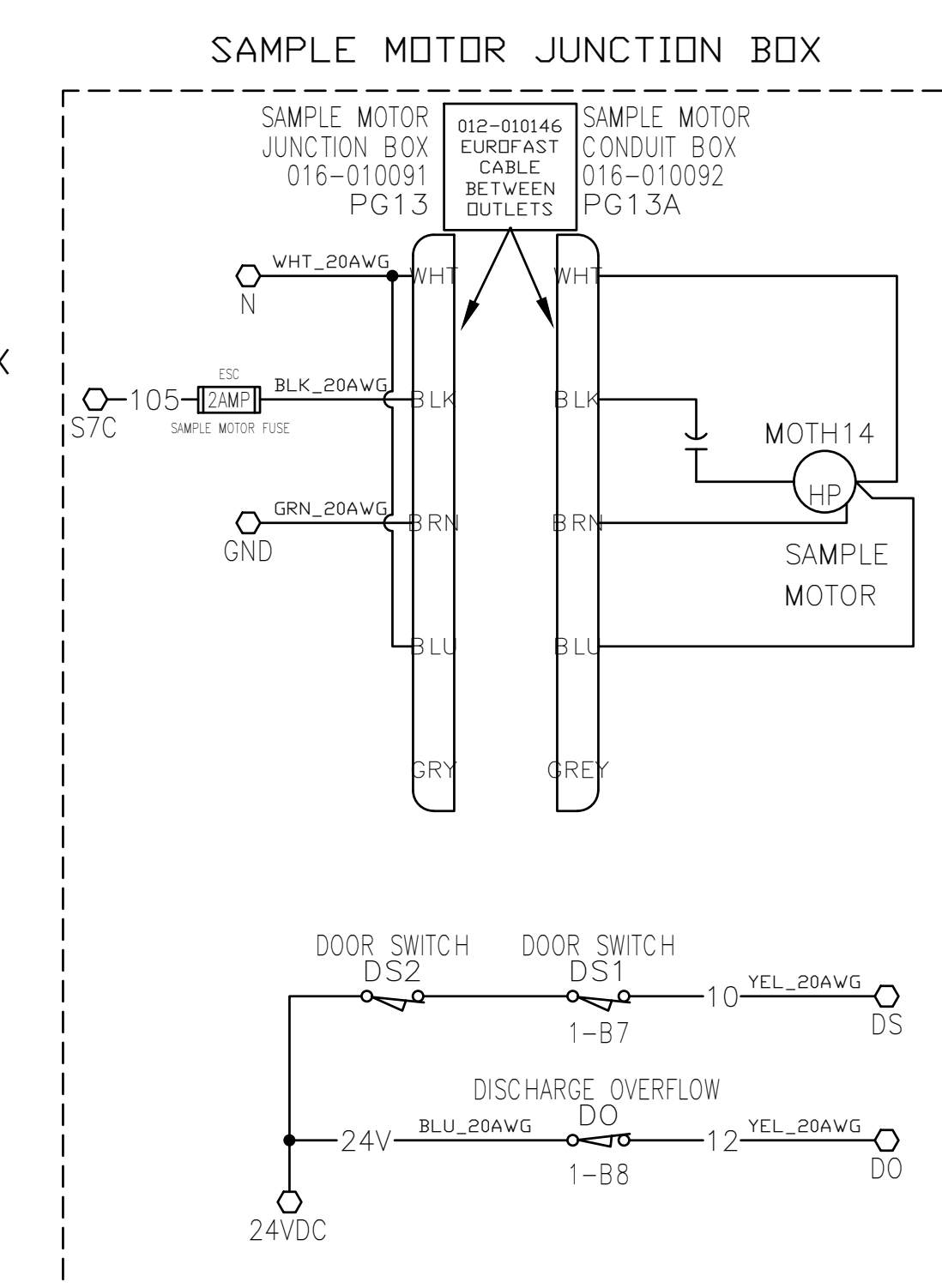
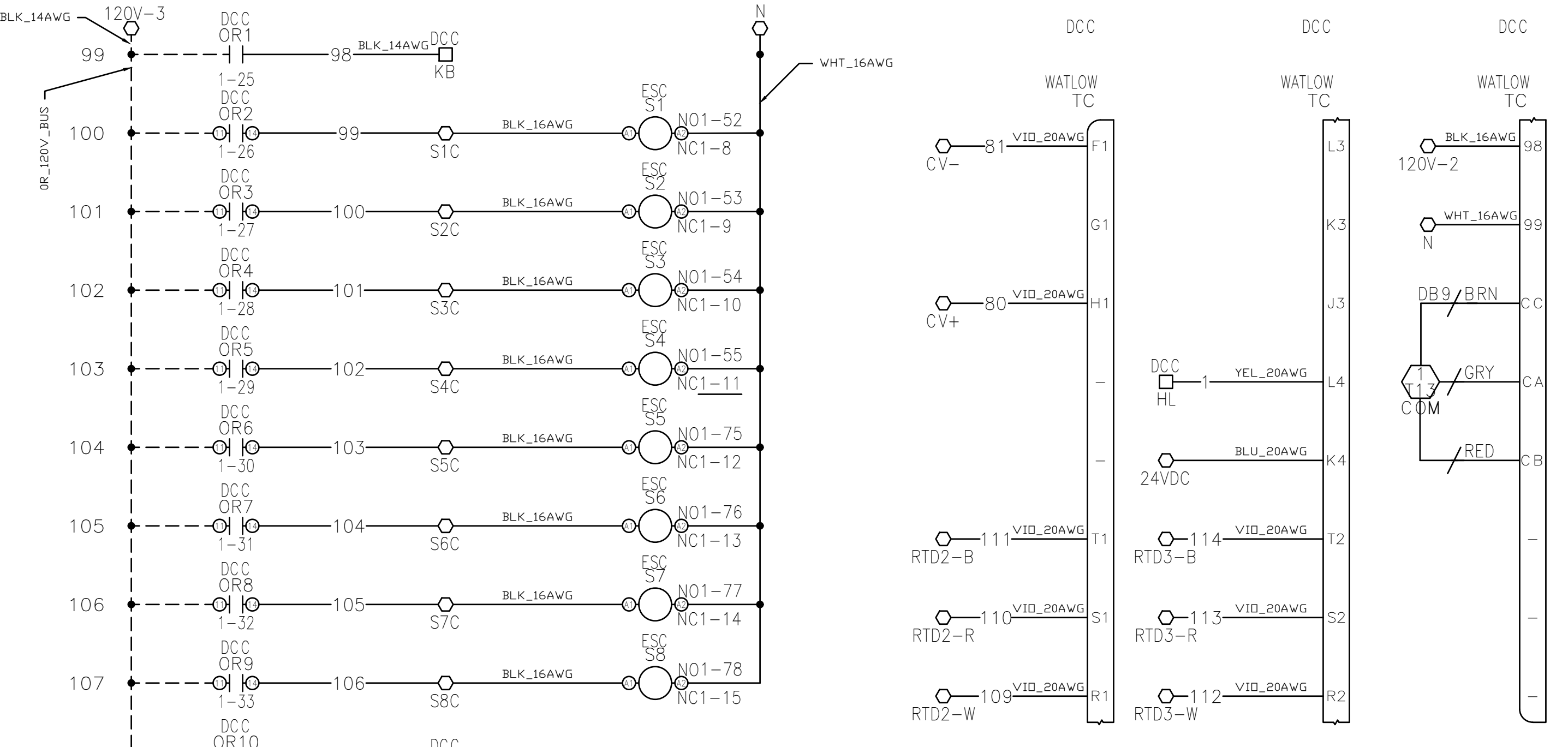
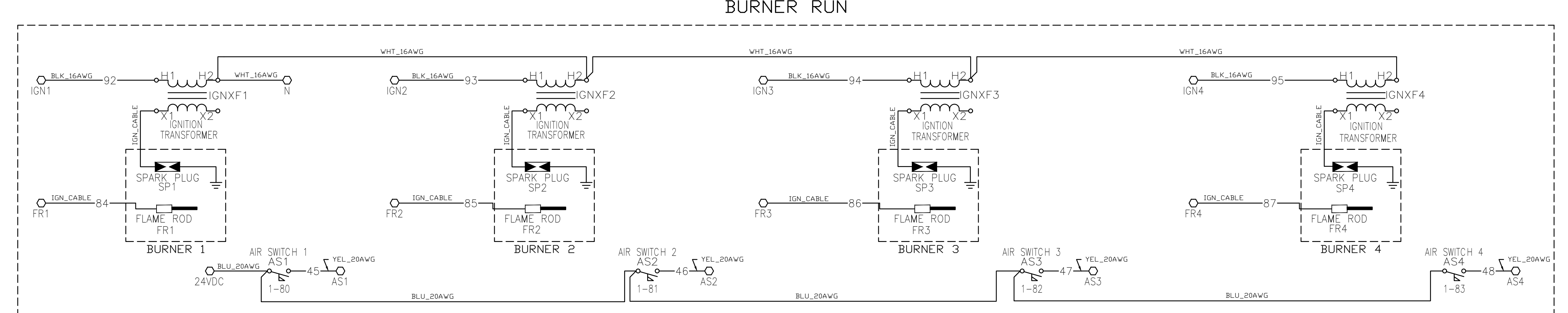
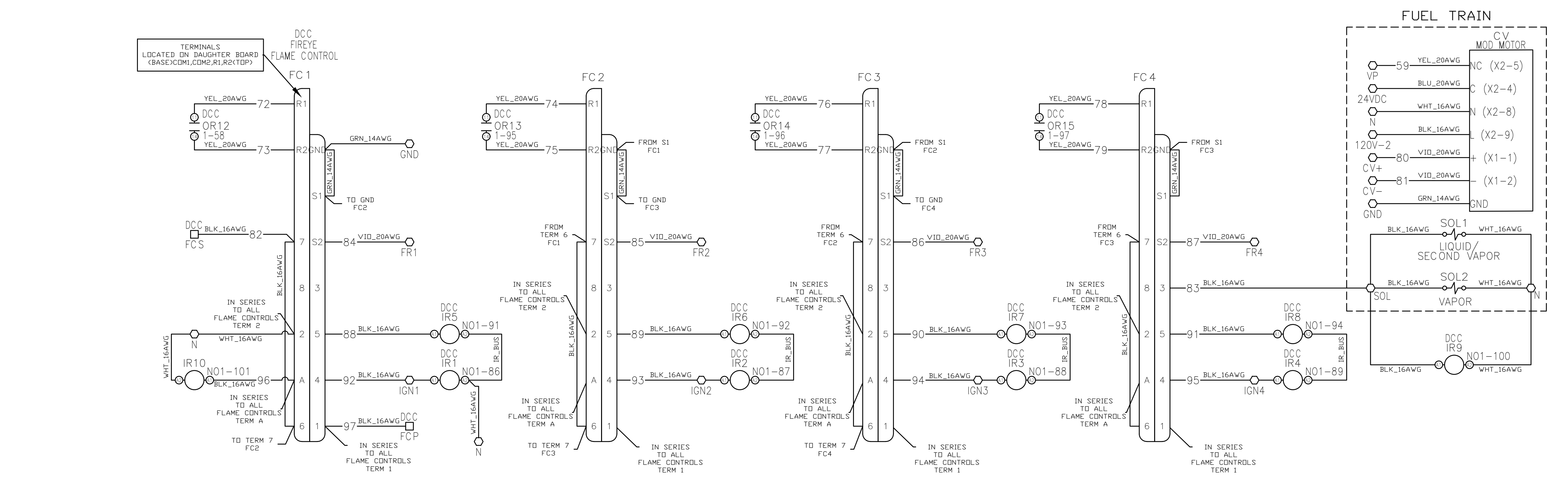
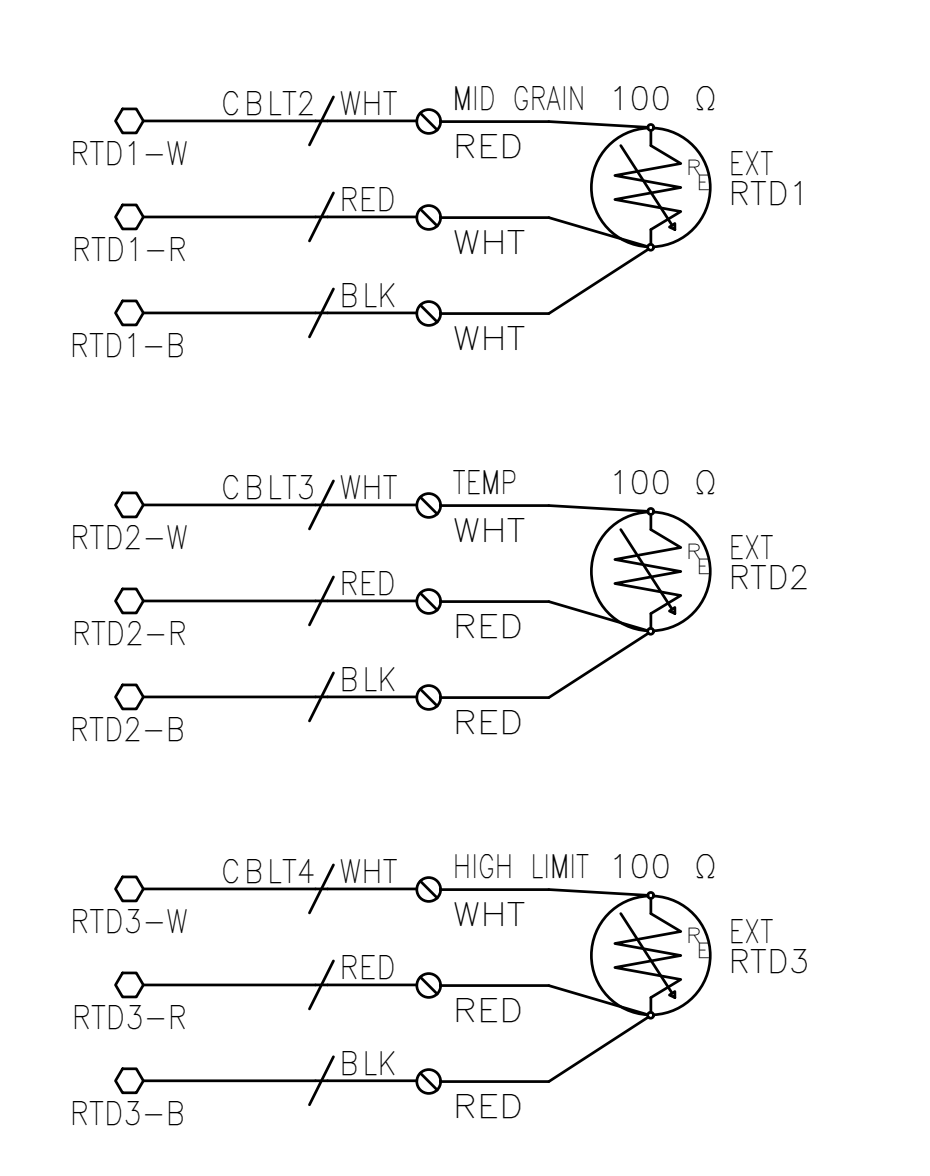
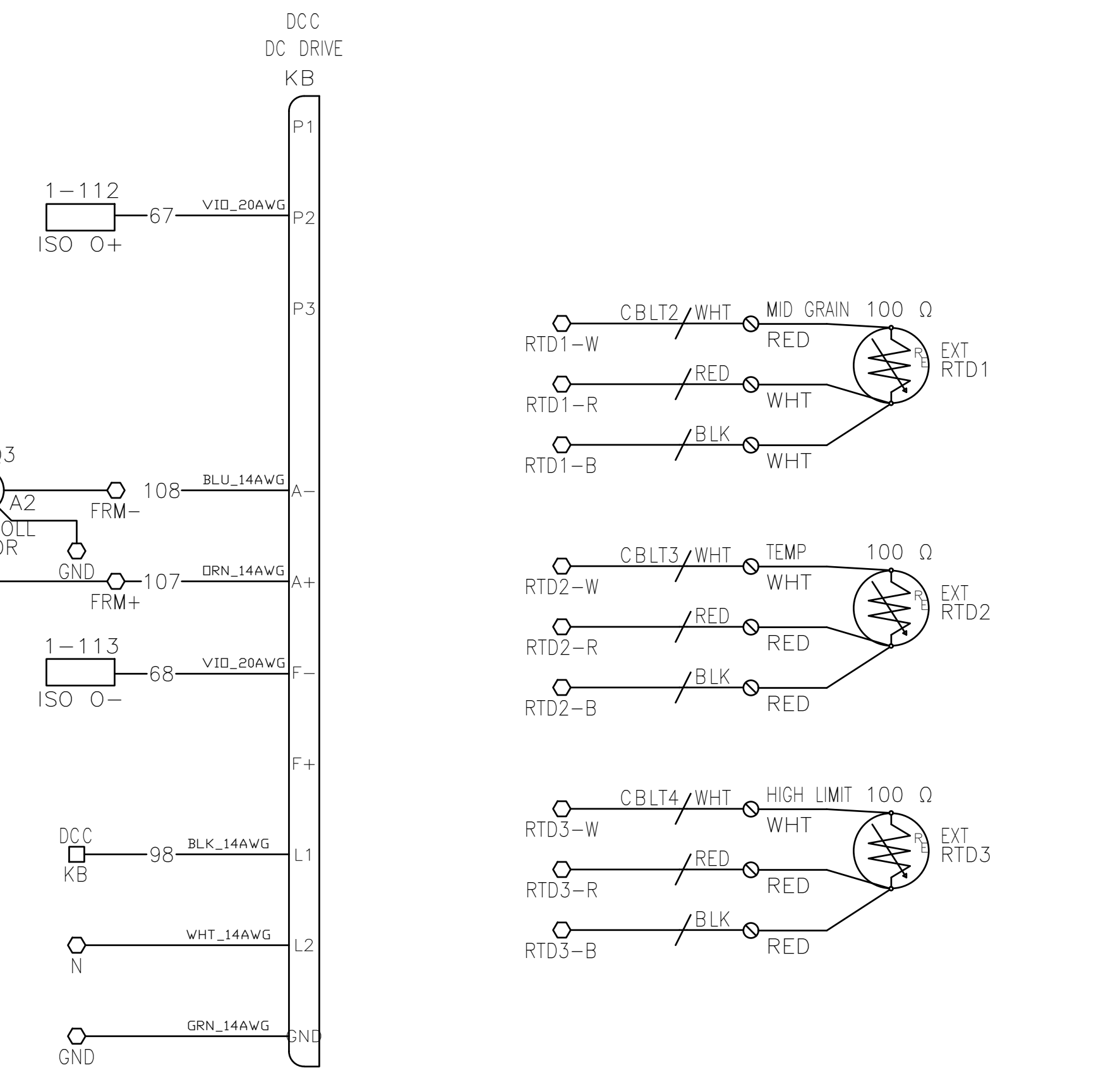
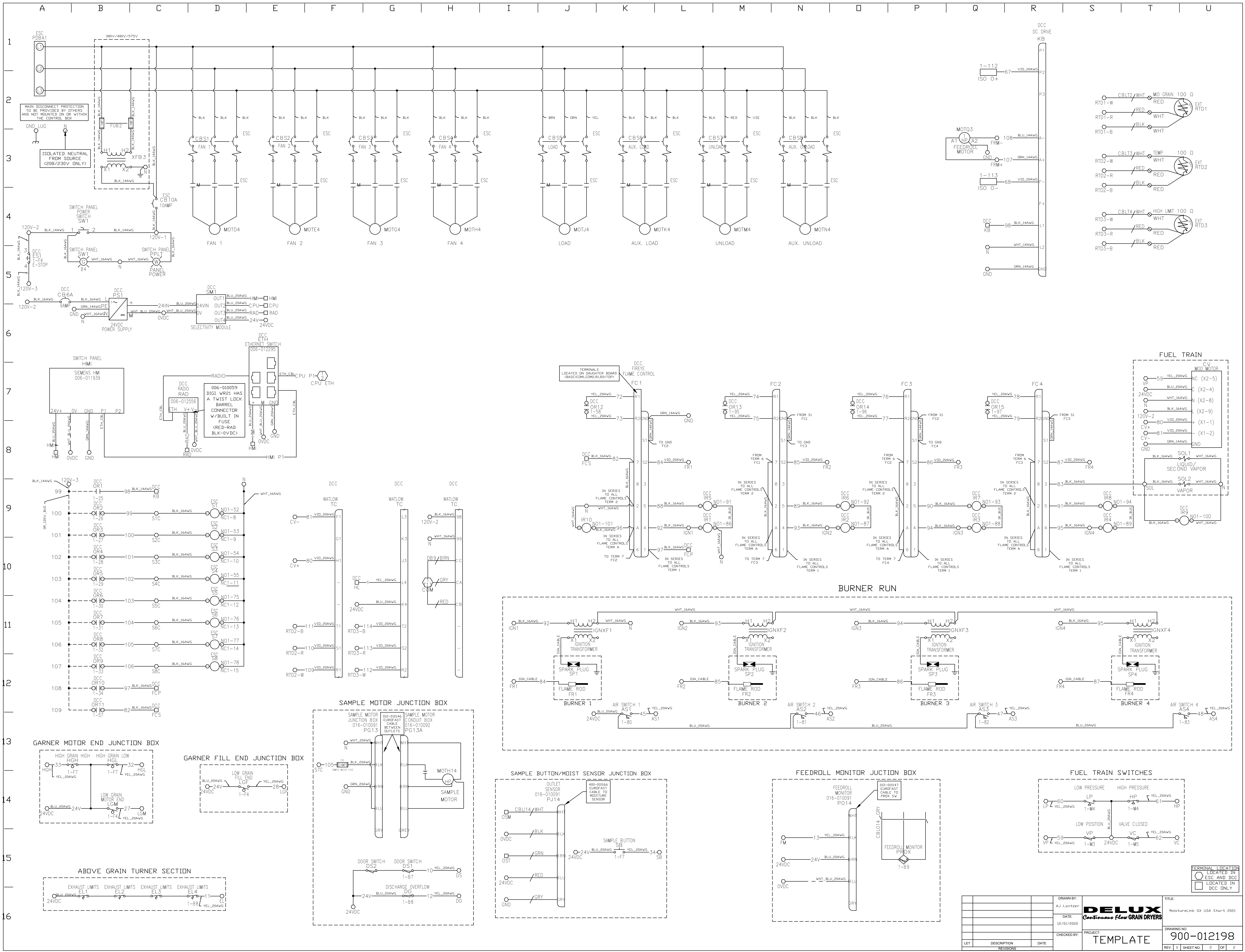
006-011956  
 DCC  
 SIEMENS  
 6ES7 234-4BH32-0XB0  
 RACK 1  
 SLOT 6  
 6-PT ANALOG IN/OUT

006-011955  
 DCC  
 SIEMENS  
 6ES7 231-7BH32-0XB0  
 RACK 1  
 SLOT 7  
 4-PT ANALOG INPUT

006-011952  
 DCC  
 SIEMENS  
 6ES7 241-1BH32-0XB0  
 RACK 1  
 SLOT 1  
 RS485 COMM MODULE







TERMINAL LOCATION  
 ○ LOCATED IN ESC AND DCC  
 □ LOCATED IN DCC ONLY

DRAWN BY:	AJ Lentzer	TITLE:	MoistureLink GX USA Start 2021
DATE:	12/01/2020	PROJECT:	900-012198
CHECKED BY:		PROJECT:	TEMPLATE
LET	DESCRIPTION	DATE	REV   0   SHEET NO.   2   OF   2

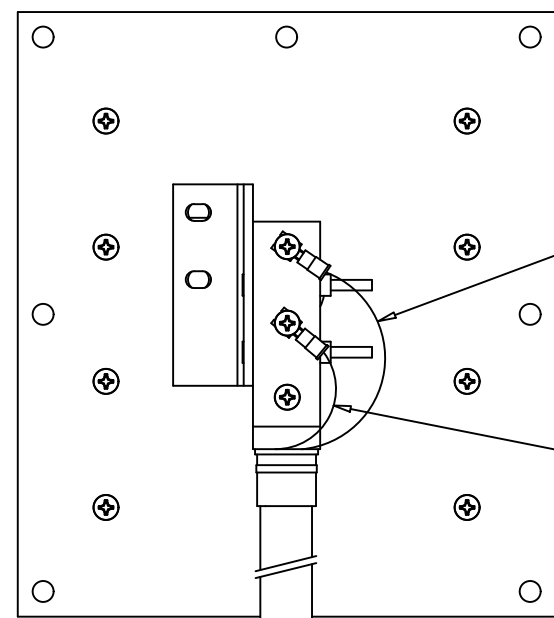


GARNER ASSEMBLY

ADJUST FOR HIGHER GRAIN LEVEL  
(PADDLE NO MORE THAN 45°)

ADJUST FOR LOWER GRAIN LEVEL

16/3 SJOW  
BLACK TO BOTH SWITCHES  
WHITE TO TOP SWITCH  
GREEN TO BOTTOM SWITCH



TO GARNER MOTOR END CONTROL BOX

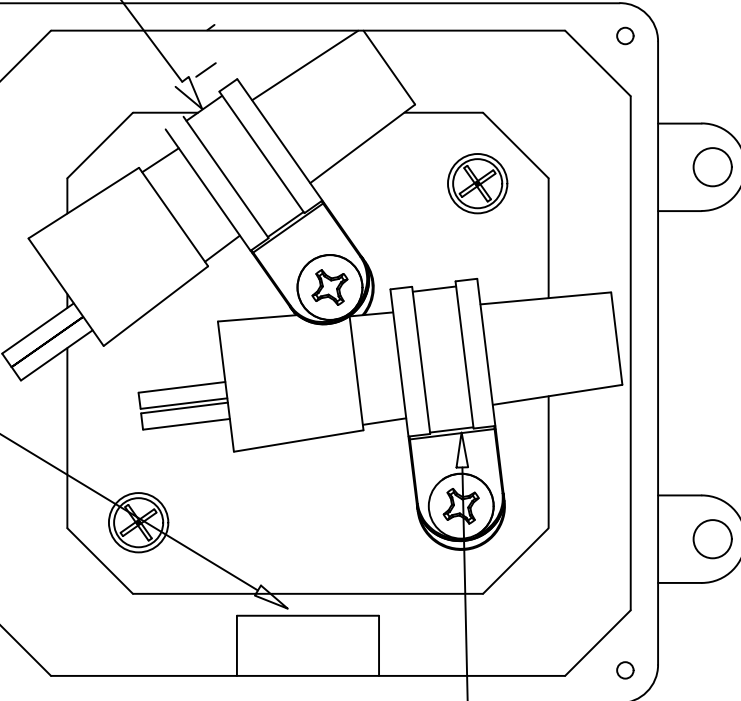
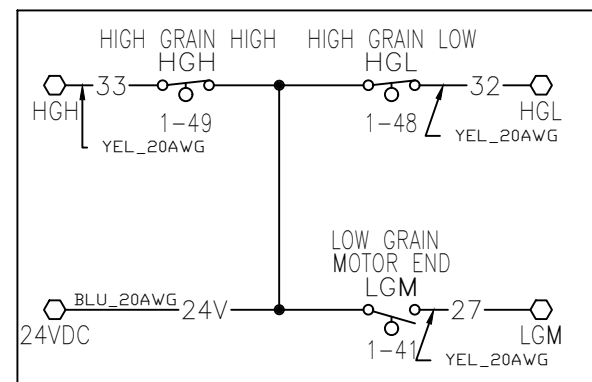
BLUE 16GA CDM

YELLOW 16GA NC

BLACK 16GA  
BLUE 20GA WIRE# 24V  
BLUE 16GA

YELLOW 16GA  
YELLOW 20GA WIRE# 27

GARNER MOTOR END JUNCTION BOX



FACTORY SET TO FILL WHEN PADDLE IS AT 10°

GARNER MOTOR END CONTROL BOX

WHITE 16GA

YELLOW 20GA WIRE# 33

GREEN 16GA

YELLOW 20GA WIRE# 32

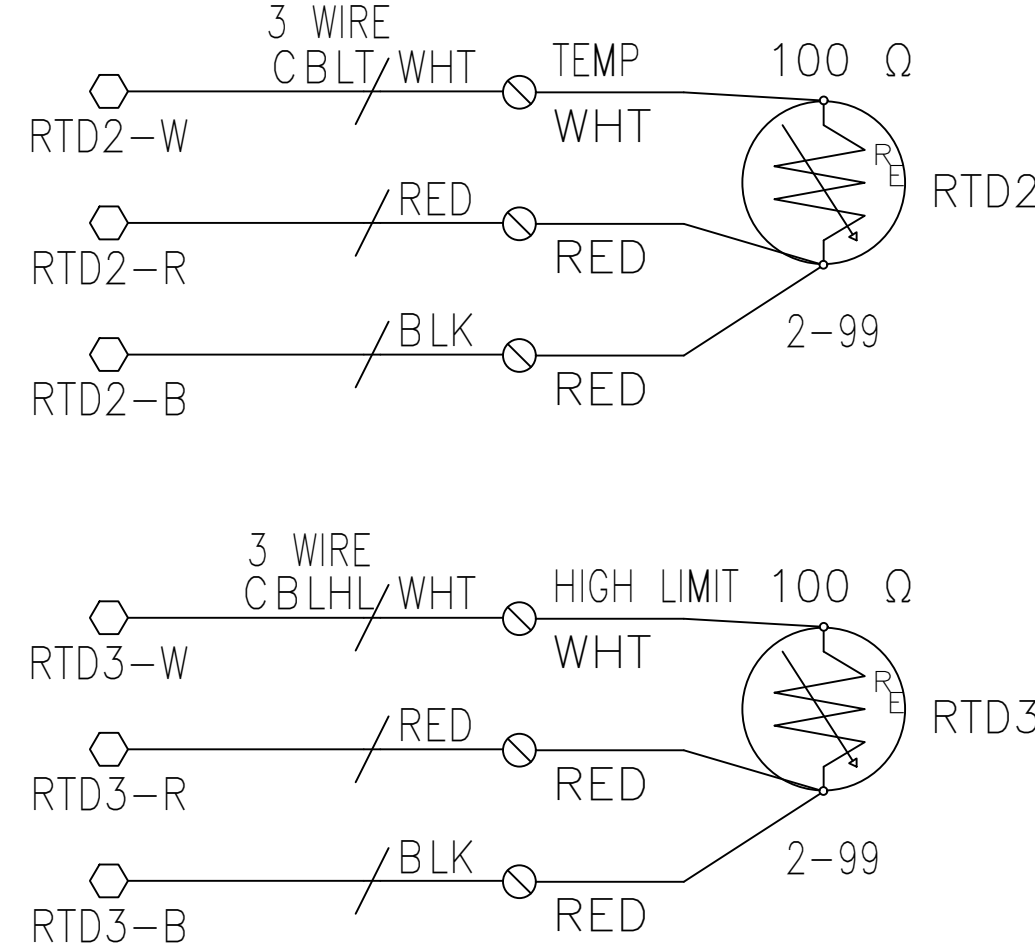
△ = WIRE NUT

TO LOW GRAIN SWITCH

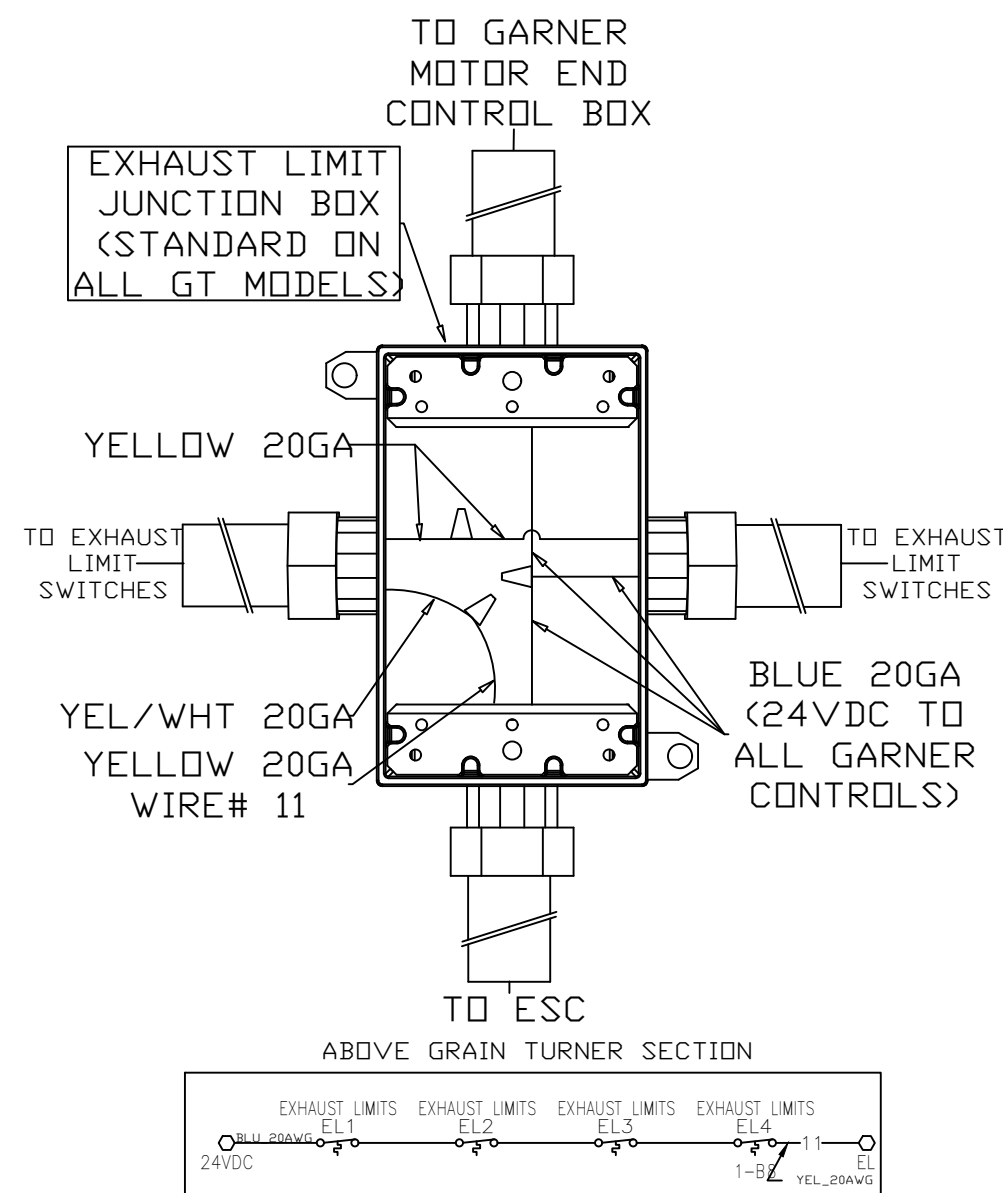
TO ESC

TEMP/HIGH LIMIT SENSOR BOX

RTD2 AND RTD3 ARE LOCATED IN TEMP AND HIGH LIMIT SENSOR BOX (400-009304)

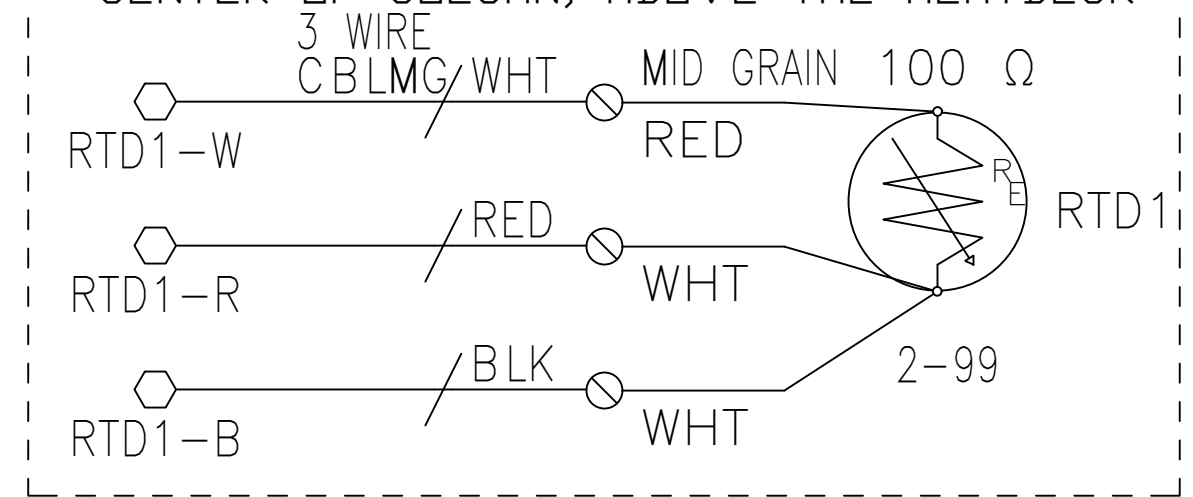


EXHAUST LIMIT JUNCTION BOX (GT MODELS)

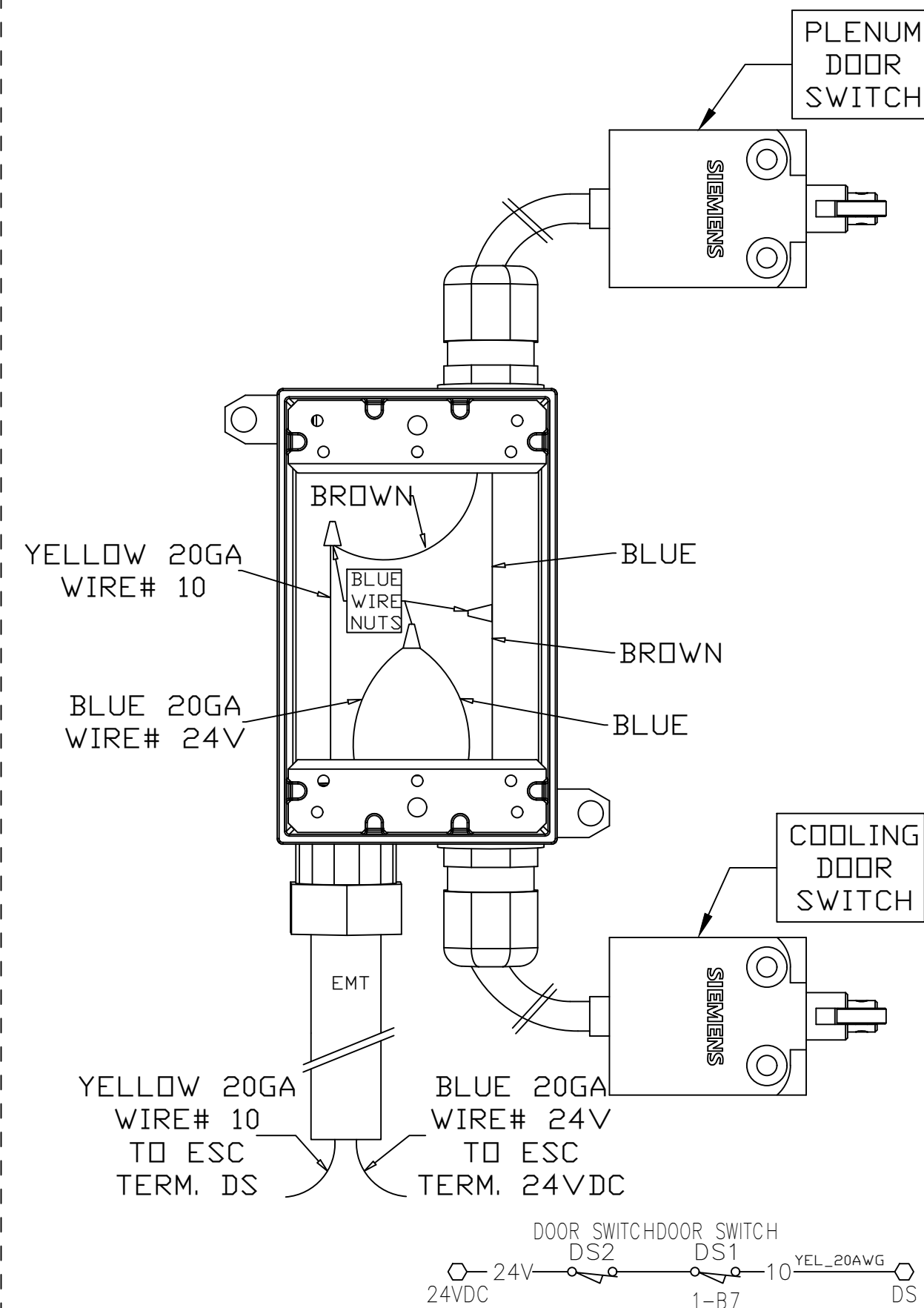


MID GRAIN SENSOR BOX

RTD1 IS LOCATED IN MID GRAIN SENSOR BOX CENTER OF COLUMN, ABOVE THE HEATDECK



DOOR SWITCH JUNCTION BOX



DRAWN BY: AJ LANTZER				TITLE: GX INSTALLATION DIAGRAM DP-DPX16GT
DATE: 01/20/2021				DRAWING NO. 900-012543
CHECKED BY:			PROJECT: INSTALLATION	REV. 0 SHEET NO. 1 OF 1
LET	DESCRIPTION	DATE		
REVISIONS				





LADDER END

CLOSED END

- \* 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- \*\* 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- \*\*\* 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

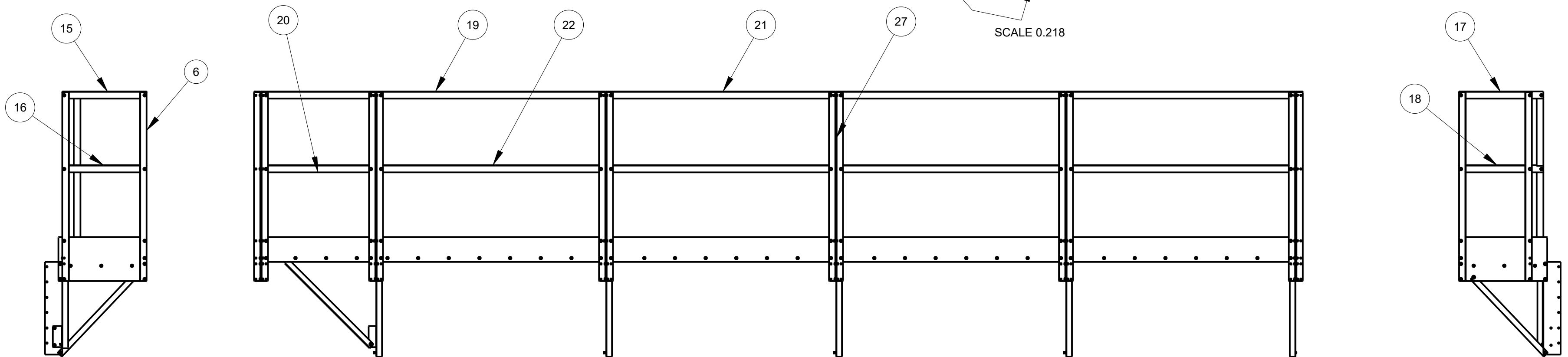
ITEM	PART NUMBER	QTY	DESCRIPTION
1	040-001450	28	SCREW - TCS - HEX - 5/16-18UNC X 1/2
2	040-001459	130	NUT - WHIZ LOCK - 5/16-18UNC
3	040-001460	22	NUT - WHIZ LOCK - 3/8-16UNC
4	040-002193	22	BOLT - WHIZ LOCK - 3/8-16UNC X 3/4
5	040-005321	130	BOLT - WHIZ LOCK - 5/16-18UNC X 3/4"
6	100-012163	6	HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL
7	100-012169	5	WALKWAY SUPPORT-SIDE-ANGLE RAIL
8	100-012170	5	WALKWAY BRACE-SIDE-ANGLE RAIL
9	100-012171	4	WALKWAY BRACKET-20" SIDE-ANGLE RAIL
10	100-012172	10	WALKWAY MOUNT ANGLE-20" SIDE-ANGLE RAIL
11	100-012175	3	WALKWAY TOE GUARD-60"-SIDE-ANGLE RAIL
12	100-012176	1	WALKWAY TOE GUARD-90"-SIDE-ANGLE RAIL
13	100-012177	1	WALKWAY BRACKET-LADDER END-20" SIDE-ANGLE RAIL
14	100-012178	1	WALKWAY BRACKET-CLOSED END-20" SIDE-ANGLE RAIL
15	100-012179	1	HANDRAIL-22"-TOP-ANGLE RAIL
16	100-012180	1	HANDRAIL-19"-MID-ANGLE RAIL
17	100-012181	1	HANDRAIL-19"-TOP-ANGLE RAIL
18	100-012182	1	HANDRAIL-19"-MID-ANGLE RAIL
19	100-012183	1	HANDRAIL-90"-TOP-ANGLE RAIL
20	100-012184	1	HANDRAIL-30"-MID-ANGLE RAIL
21	100-012185	3	HANDRAIL-60"-TOP-ANGLE RAIL
22	100-012186	4	HANDRAIL-60"-MID-ANGLE RAIL
23	100-012188	6	WALKWAY PLANK-10" X 60"-ANGLE RAIL
24	100-012189	2	WALKWAY PLANK-10" X 90"-ANGLE RAIL
25	100-012192	1	WALKWAY BRACE-LADDER END-ANGLE RAIL
26	100-012193	1	WALKWAY BRACKET ANGLE-LADDER END-ANGLE RAIL
27	300-012174	4	SUB ASSY-HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL

REFERENCE VIEW  
SCALE 0.046

CORNERS USE TWO 'HANDRAIL-VERTICAL' (6)  
SANDWICHED OVER END BRACKETS.

SLIP EACH 'SUB-ASSY-HANDRAIL-VERTICAL' (27)  
OVER EACH INTERMEDIATE WALKWAY BRACKET (9).

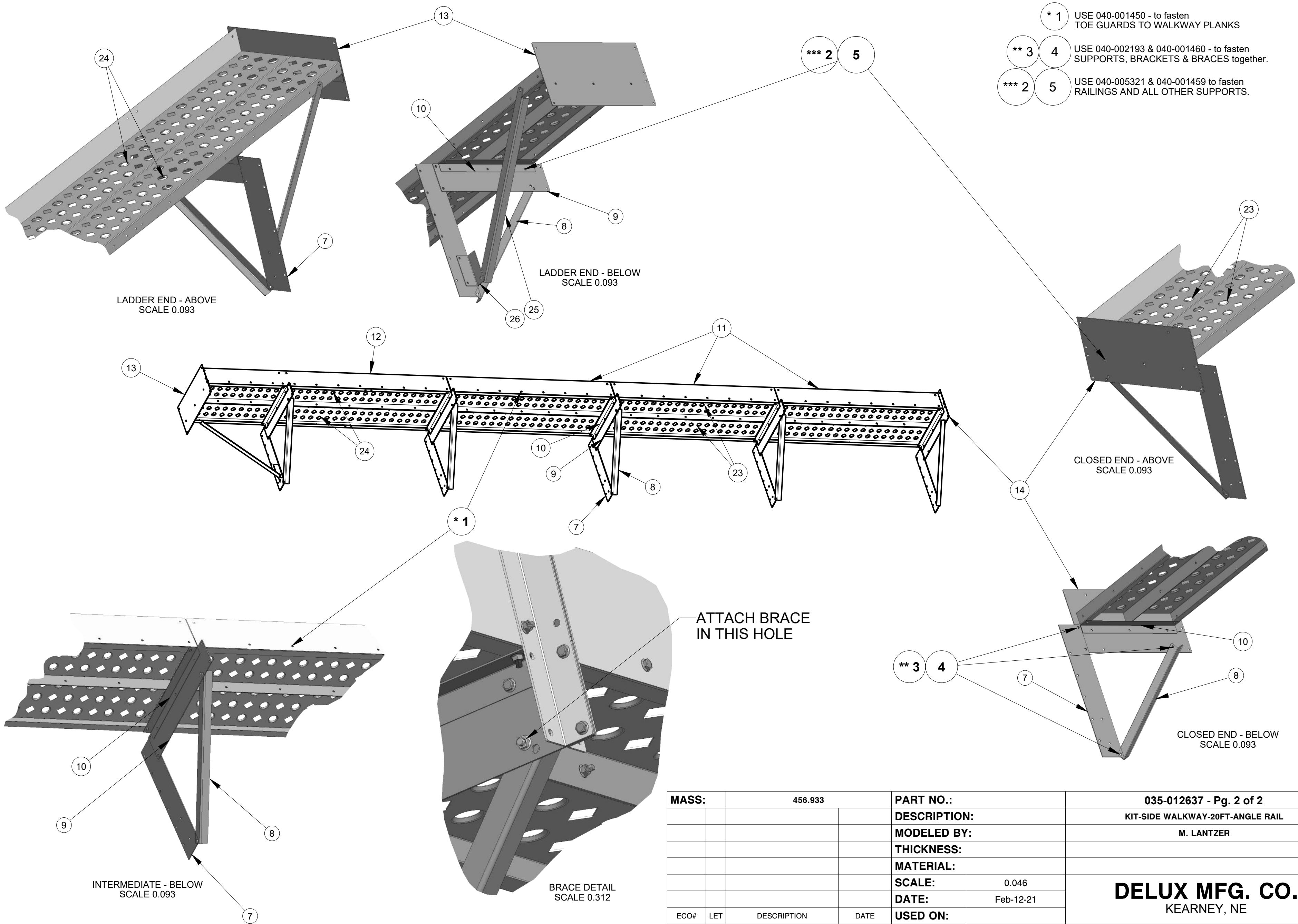
SCALE 0.218



MASS:	456.933	PART NO.:	035-012637 - Pg. 1 of 2
		DESCRIPTION:	KIT-SIDE WALKWAY-20FT-ANGLE RAIL
		MODELED BY:	M. LANTZER
		THICKNESS:	
		MATERIAL:	
		SCALE:	0.046
		DATE:	Feb-03-21
ECO#	LET	DESCRIPTION	DATE

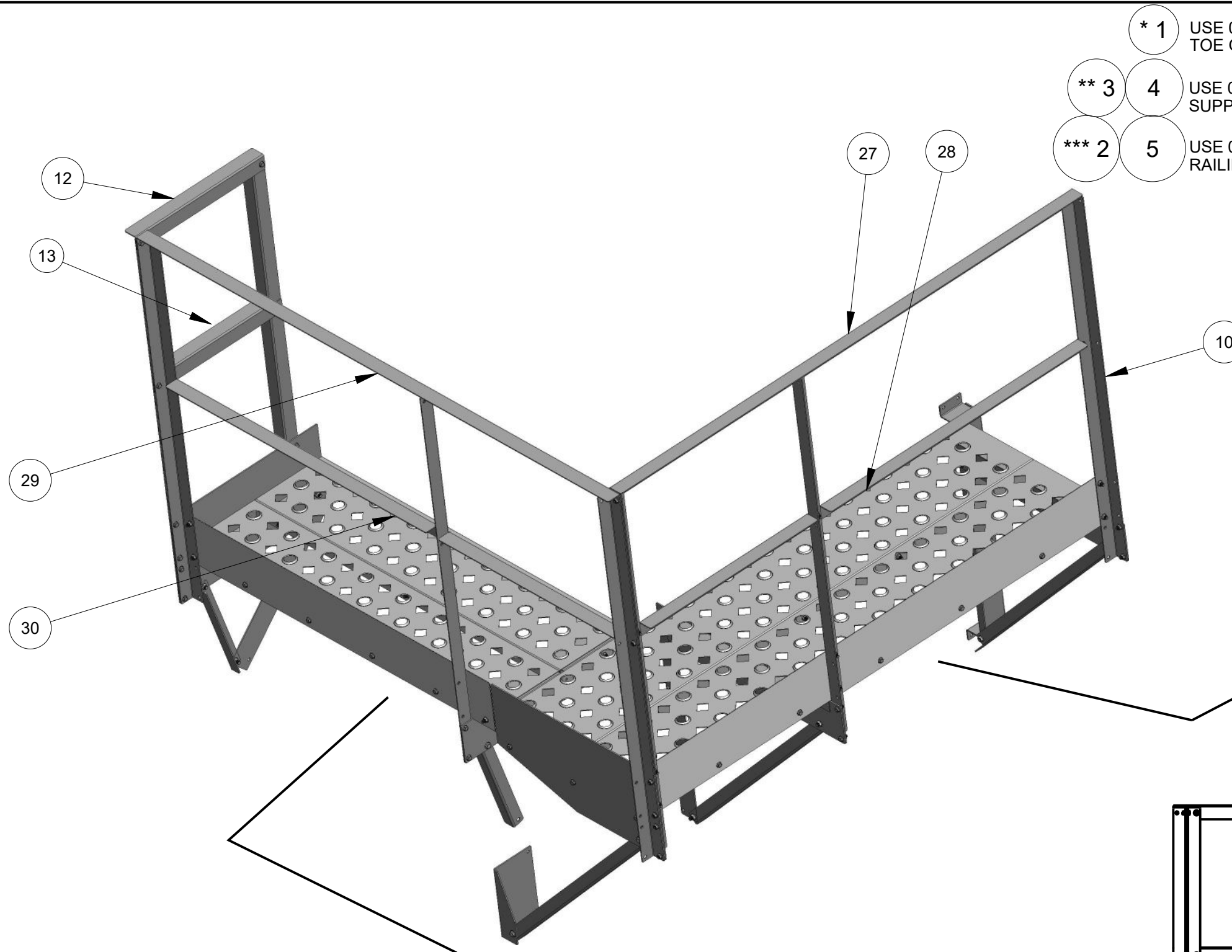
**DELUX MFG. CO.**  
KEARNEY, NE

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED



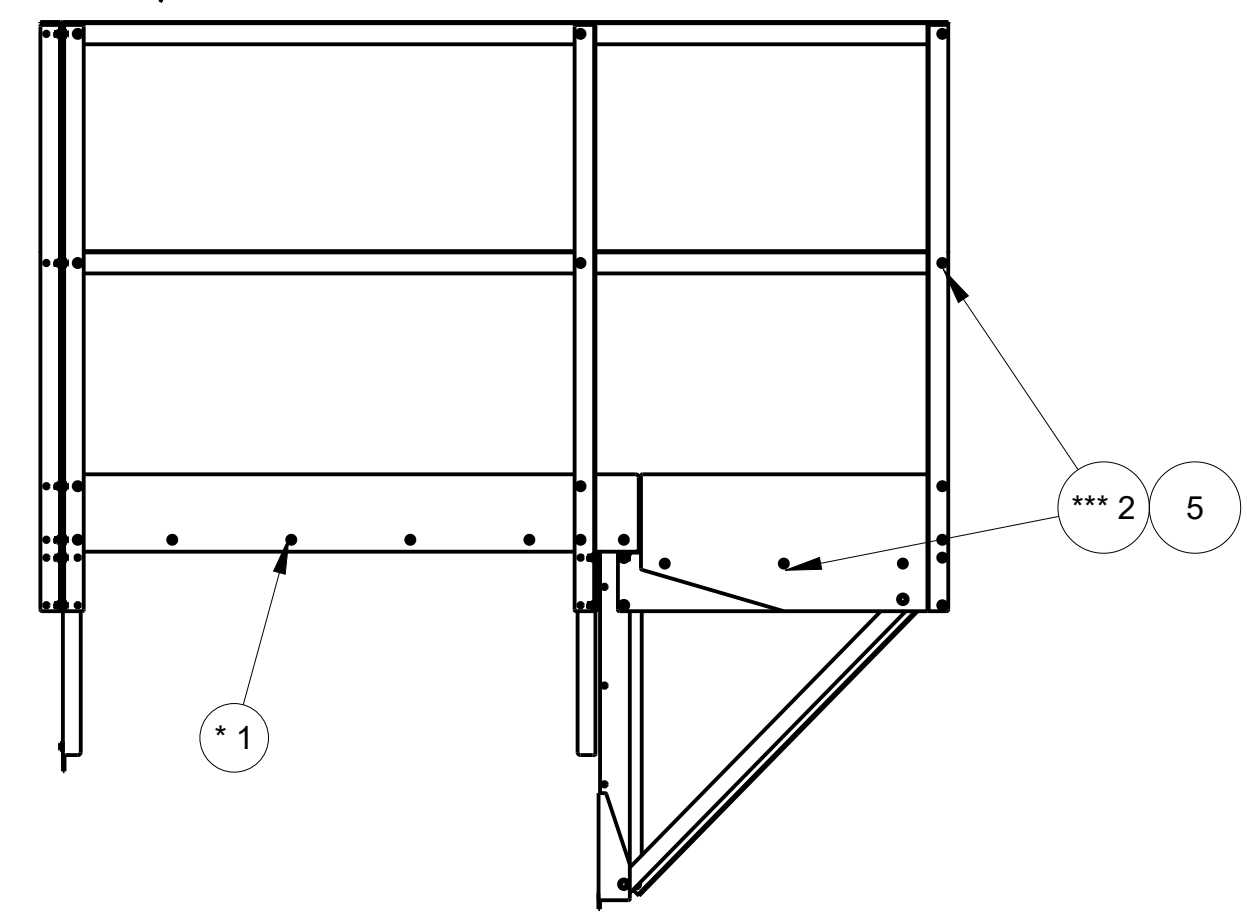
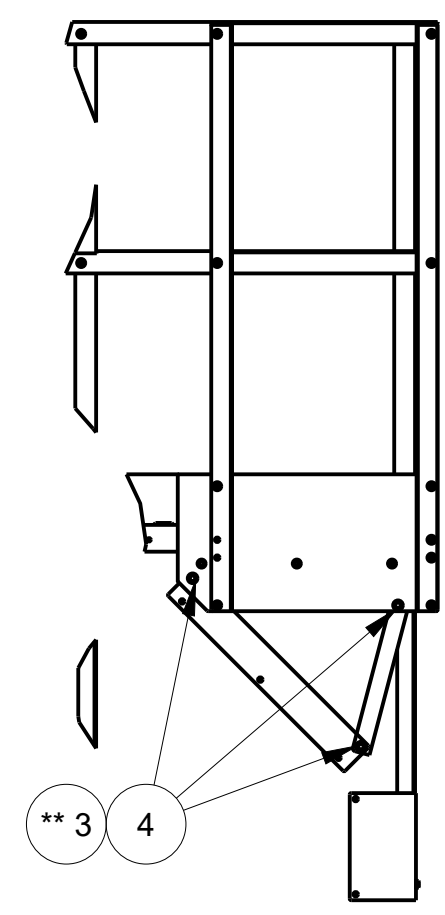
<b>MASS:</b>	456.933	<b>PART NO.:</b>	035-012637 - Pg. 2 of 2
		<b>DESCRIPTION:</b>	KIT-SIDE WALKWAY-20FT-ANGLE RAIL
		<b>MODELED BY:</b>	M. LANTZER
		<b>THICKNESS:</b>	
		<b>MATERIAL:</b>	
		<b>SCALE:</b>	0.046
		<b>DATE:</b>	Feb-12-21
<b>ECO#</b>	<b>LET</b>	<b>DESCRIPTION</b>	<b>DATE</b>
TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED			

**DELUX MFG. CO.**  
KEARNEY, NE

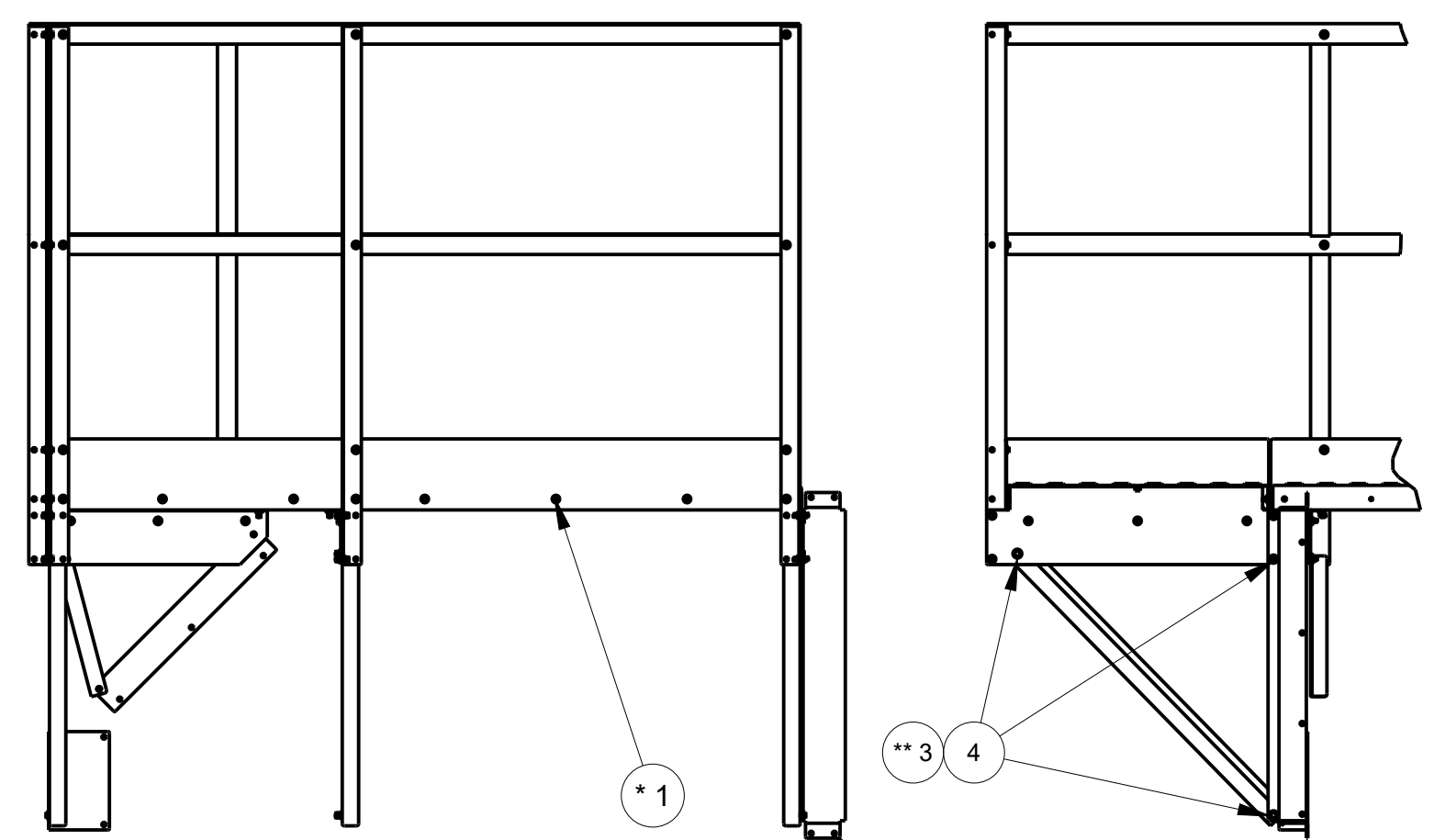


- \* 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- \*\* 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- \*\*\* 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

ITEM	PART NUMBER	QTY	DESCRIPTION
1	040-001450	9	SCREW - TCS - HEX - 5/16-18UNC X 1/2
2	040-001459	86	NUT - WHIZ LOCK - 5/16-18UNC
3	040-001460	14	NUT - WHIZ LOCK - 3/8-16UNC
4	040-002193	14	BOLT - WHIZ LOCK - 3/8-16UNC X 3/4
5	040-005321	86	BOLT - WHIZ LOCK - 5/16-18UNC X 3/4"
6	100-012157	1	WALKWAY SUPPORT-LEFT-GARNER & PLENUM-ANGLE RAIL
7	100-012158	3	WALKWAY BRACE-GARNER & PLENUM-ANGLE RAIL
8	100-012159	1	WALKWAY BRACKET RIGHT-GARNER & PLENUM-ANGLE RAIL
9	100-012161	4	WALKWAY MOUNT ANGLE-GARNER/PLENUM-ANGLE RAIL
10	100-012163	8	HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL
11	100-012172	2	WALKWAY MOUNT ANGLE-20" SIDE-ANGLE RAIL
12	100-012181	1	HANDRAIL-19"-TOP-ANGLE RAIL
13	100-012182	1	HANDRAIL-19"-MID-ANGLE RAIL
14	100-012195	2	WALKWAY BRACE-TOP SLOPE-SIDE-ANGLE RAIL
15	100-012197	1	WALKWAY SUPPORT-RIGHT-GARNER & PLENUM-ANGLE RAIL
16	100-012203	1	WALKWAY BRACKET-24" FRONT/REAR-ANGLE RAIL
17	100-012204	1	WALKWAY BRACKET-LEFT-24" FRONT/REAR-ANGLE RAIL
18	100-012205	1	WALKWAY BRACKET-INTER-.20"-TOP SLOPE-ANGLE RAIL
19	100-012206	1	WALKWAY BRACKET-LEFT-20" TOP SLOPE-ANGLE RAIL
20	100-012207	1	WALKWAY SUPPORT-LEFT-20" TOP SLOPE-ANGLE RAIL
21	100-012208	1	WALKWAY BRACKET ANGLE-FRONT/REAR LEFT-ANGLE RAIL
22	100-012209	1	WALKWAY END CHANNEL-RIGHT-20" TOP SLOPE-ANGLE RAIL
23	100-012210	1	WALKWAY TOEGUARD-FRONT/REAR-GARNER-ANGLE RAIL
24	100-012211	1	WALKWAY TOEGUARD-TOP SLOPE-DPX GARNER-ANGLE RAIL
25	100-012212	2	WALKWAY PLANK-12" X 68.5"-FRONT/REAR-GARNER-ANGLE RAIL
26	100-012213	2	WALKWAY PLANK-10" X 48"-TOP SLOPE-ANGLE RAIL
27	100-012214	1	HANDRAIL-68.5"-TOP-FRONT/REAR-GARNER-ANGLE RAIL
28	100-012215	1	HANDRAIL-68.5"-MID-FRONT/REAR-GARNER-ANGLE RAIL
29	100-012216	1	HANDRAIL-74.5"-TOP-TOP SLOPE-GARNER-ANGLE RAIL
30	100-012217	1	HANDRAIL-74.5"-MID-TOP SLOPE-GARNER-ANGLE RAIL
31	040-002739	4	SCREW TCS HEX 5/16-18UNC X 3/4 ZINC



SIDE - TOP SLOPE  
SCALE 0.062  
(REF Pg. 3)

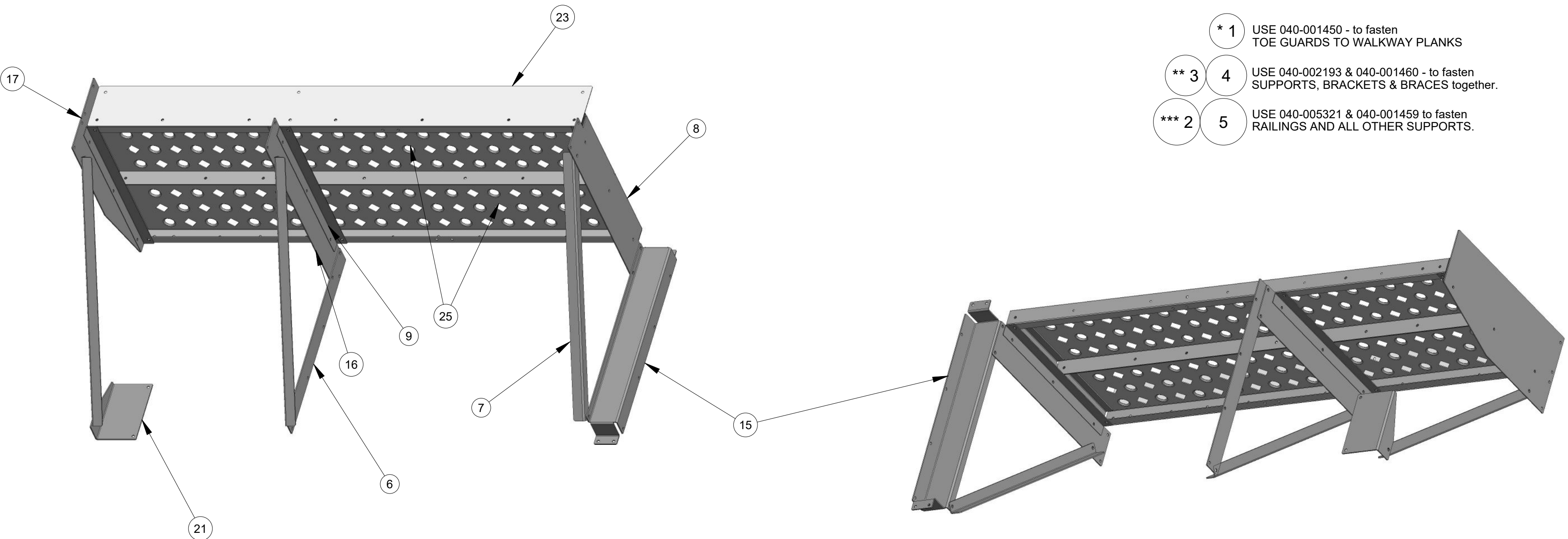


FRONT  
SCALE 0.062  
(REF. Pg. 2)

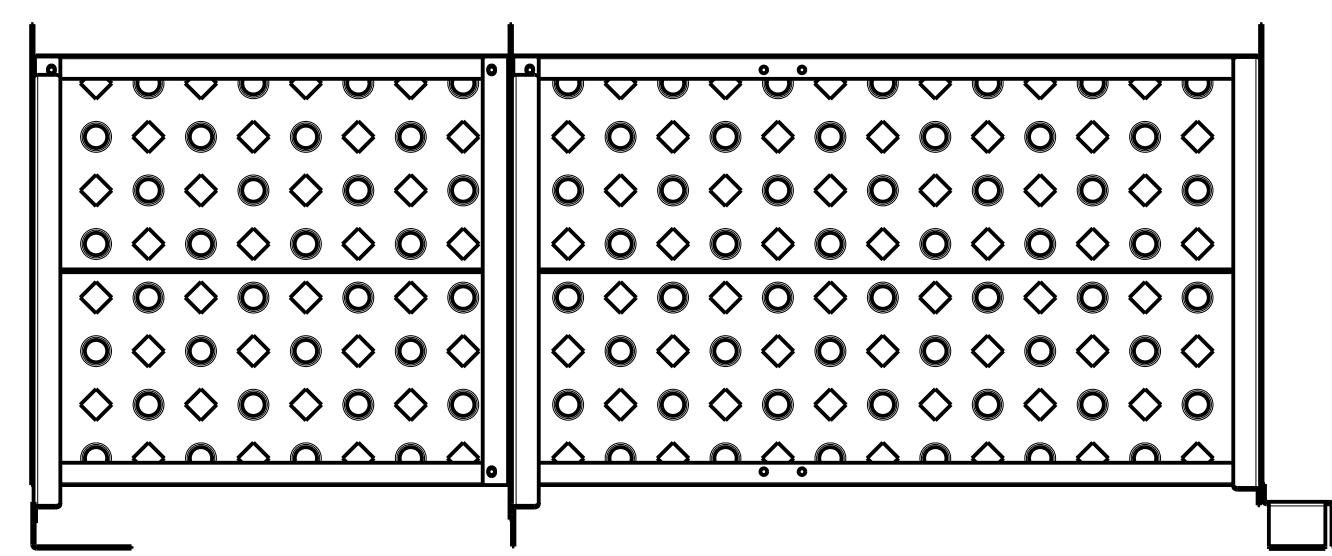
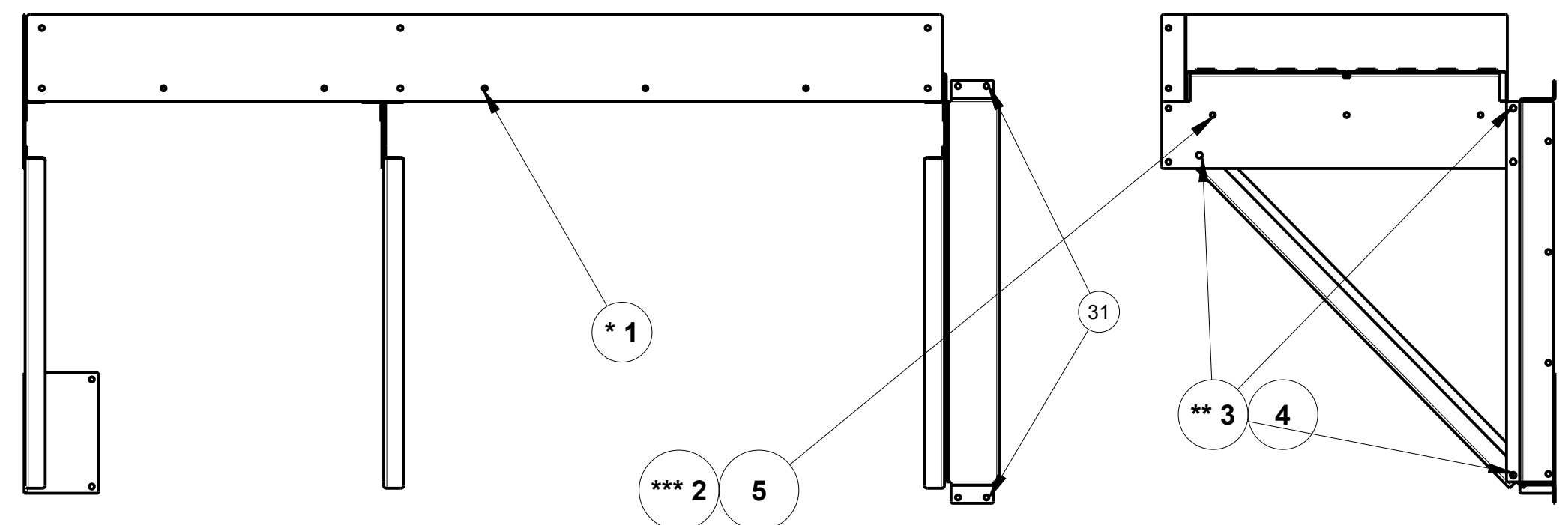
MASS:	258.727	PART NO.:	035-012636 - Pg. 1 of 4
		DESCRIPTION:	KIT-WALKWAY-GARNER-ANGLE RAIL
		MODELED BY:	M. LANTZER
		THICKNESS:	
		MATERIAL:	
		SCALE:	0.078
		DATE:	Jan-25-21
ECO#	LET	DESCRIPTION	DATE

**DELUX MFG. CO.**  
KEARNEY, NE

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED



- \* 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- \*\* 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- \*\*\* 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

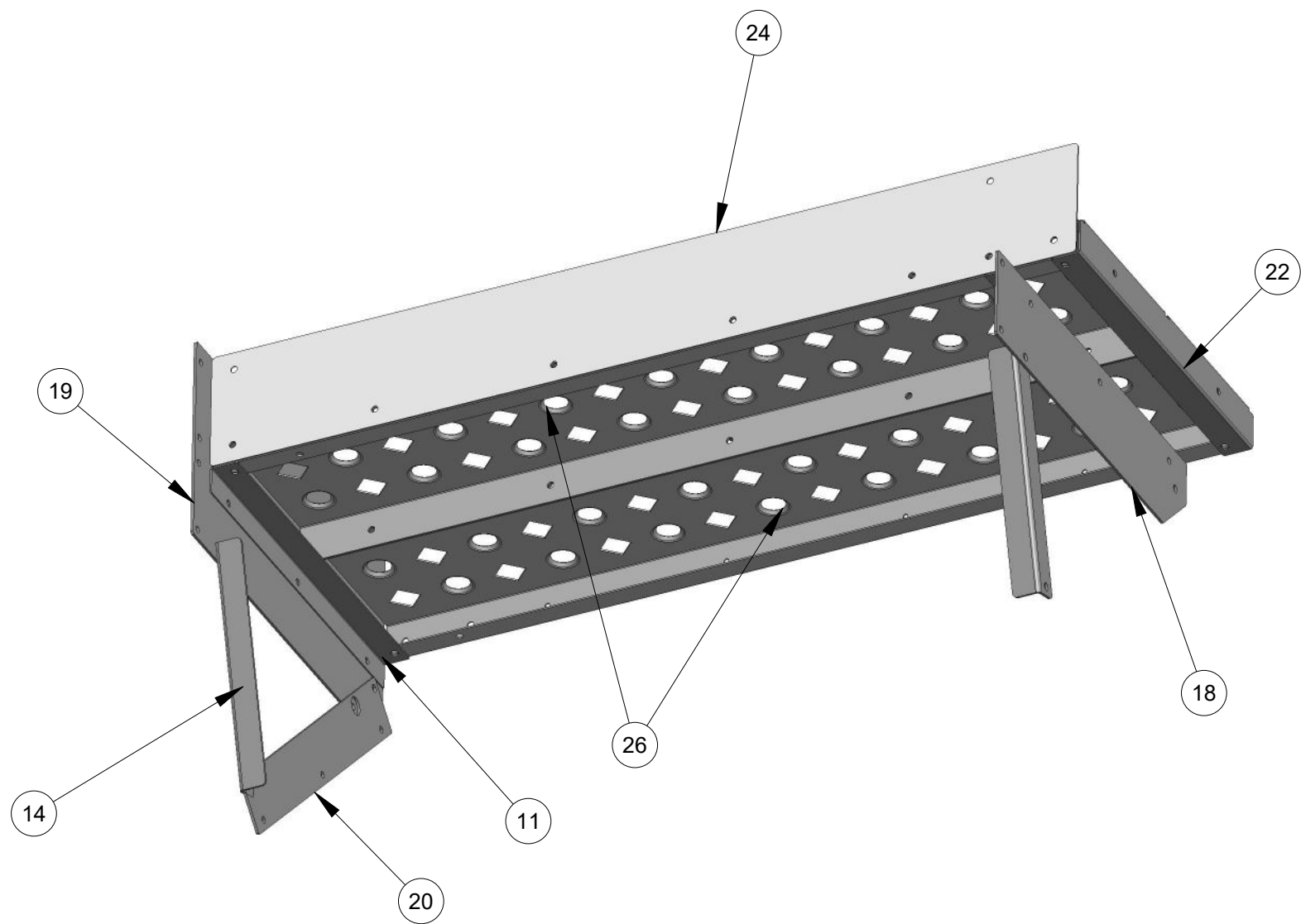


**FRONT**

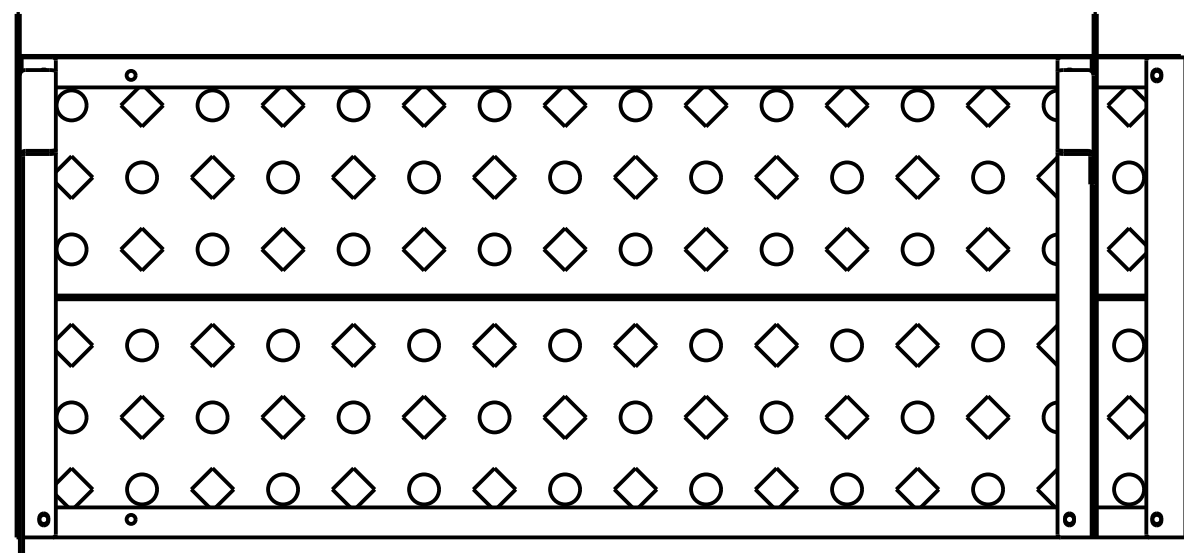
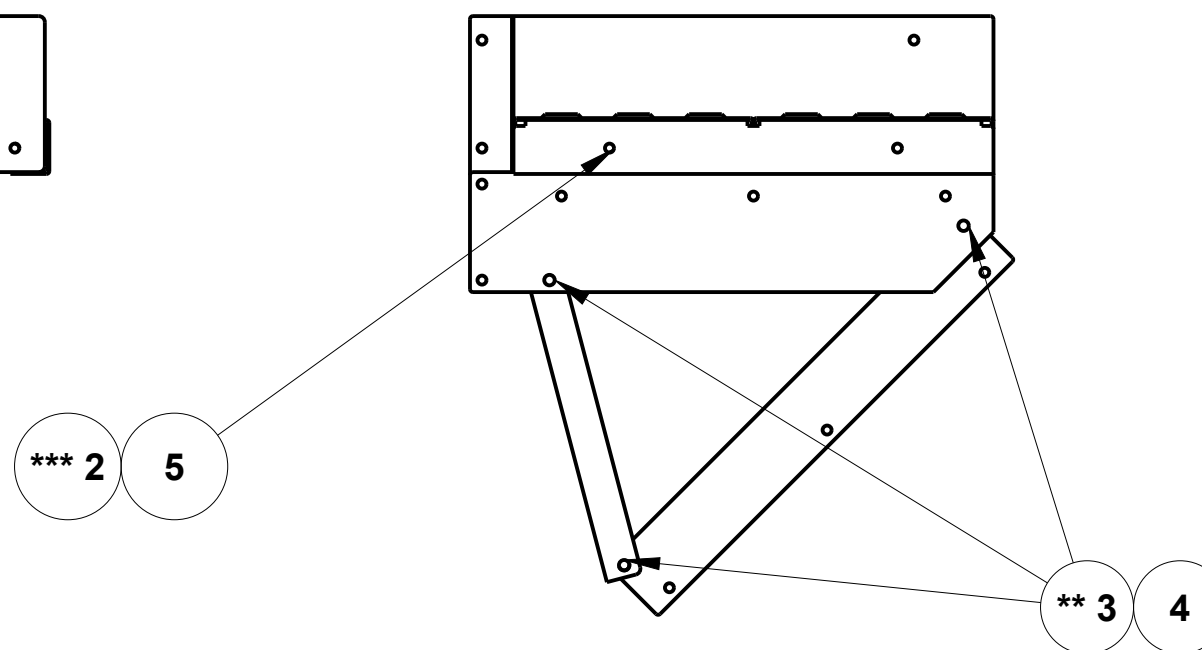
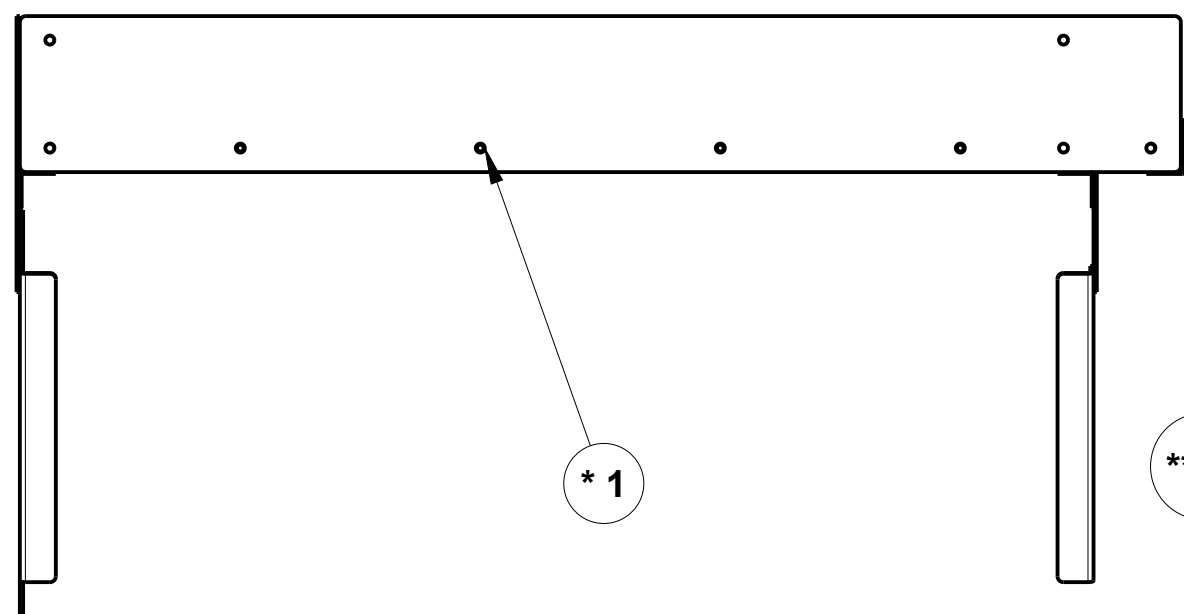
<b>MASS:</b>	258.727	<b>PART NO.:</b>	035-012636 - Pg. 2 of 4
		<b>DESCRIPTION:</b>	KIT-WALKWAY-GARNER-ANGLE RAIL
		<b>MODELED BY:</b>	M. LANTZER
		<b>THICKNESS:</b>	
		<b>MATERIAL:</b>	
		<b>SCALE:</b>	0.093
		<b>DATE:</b>	Feb-03-21
<b>ECO#</b>	<b>LET</b>	<b>DESCRIPTION</b>	<b>DATE</b>

**DELUX MFG. CO.**  
KEARNEY, NE

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED



- \* 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- \*\* 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- \*\*\* 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

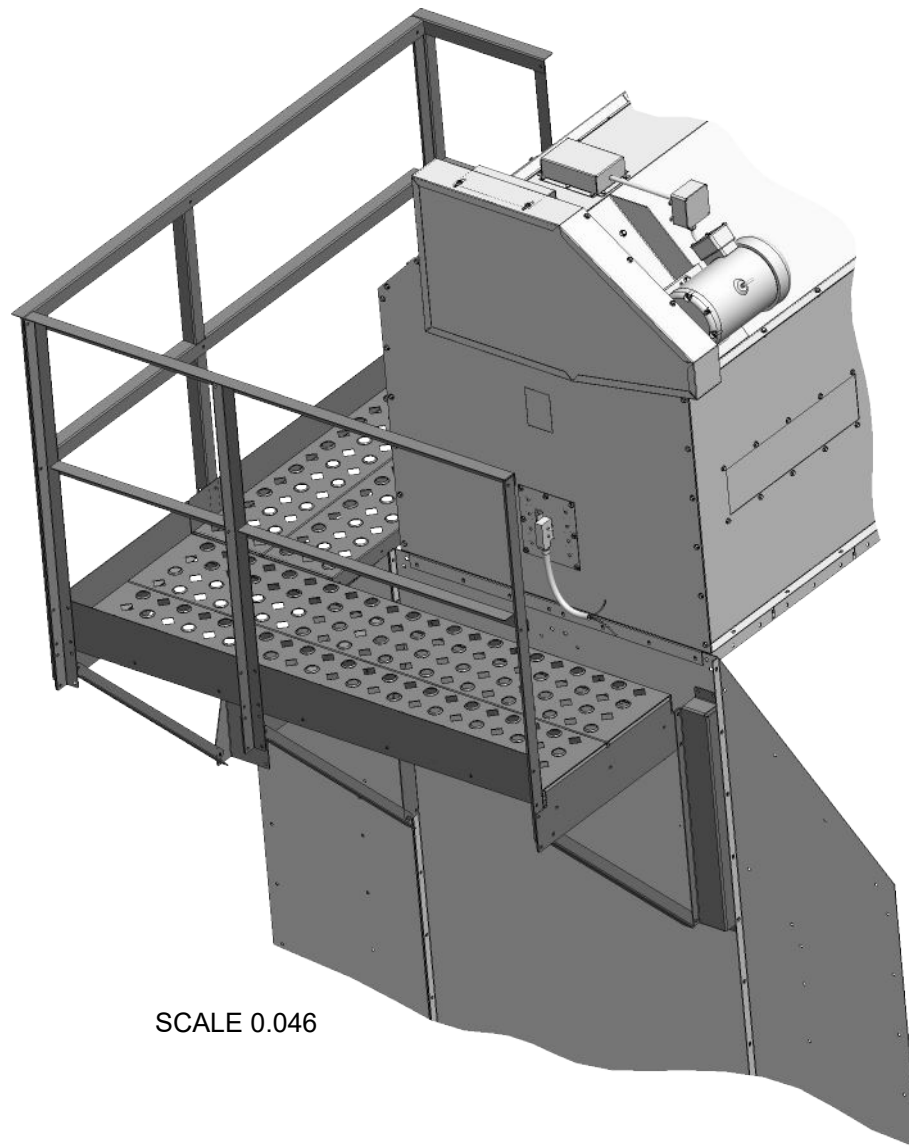


**SIDE - TOP SLOPE**

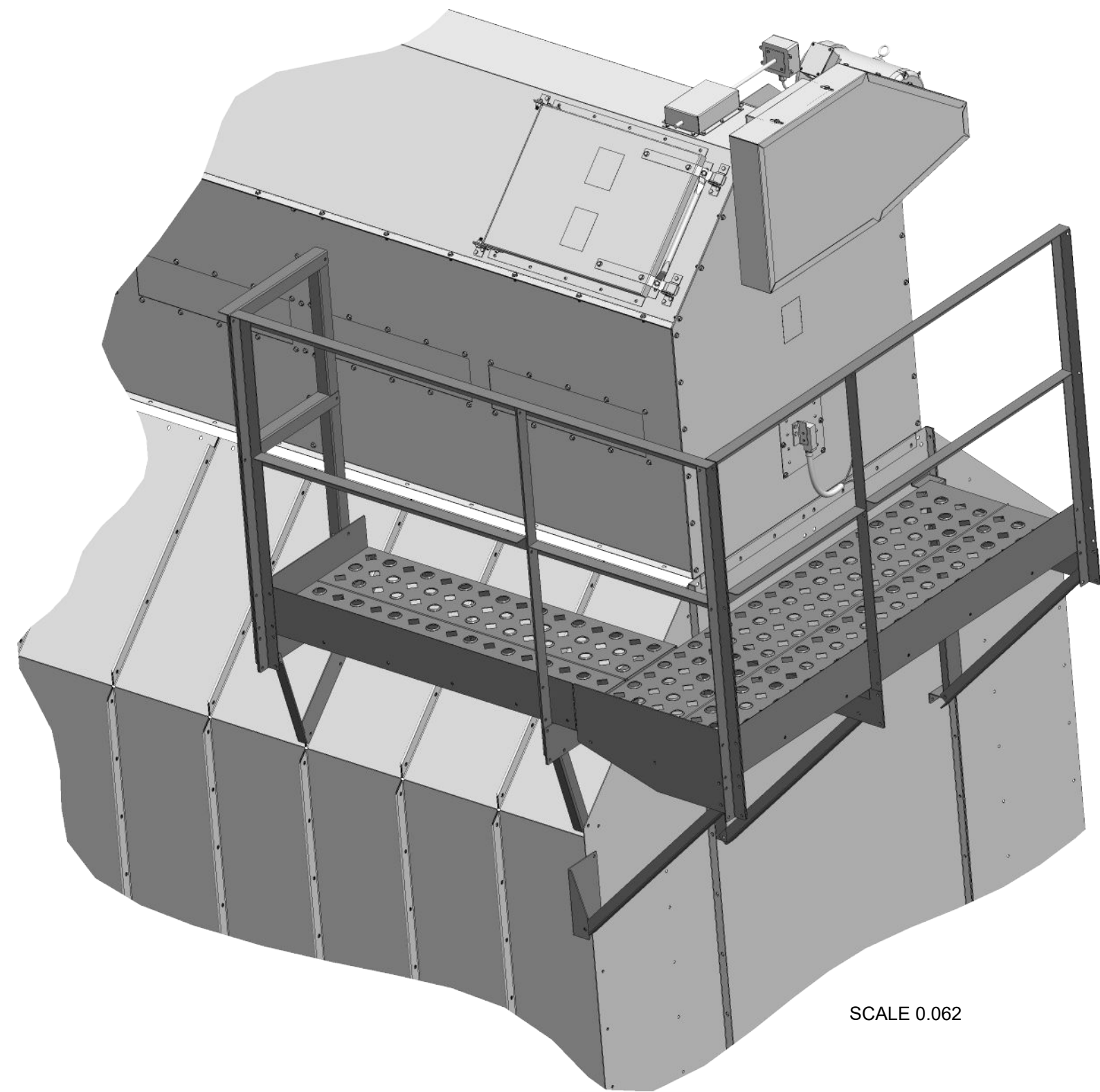
<b>MASS:</b>		258.727	<b>PART NO.:</b>		035-012636 - Pg. 3 of 4
			<b>DESCRIPTION:</b>		KIT-WALKWAY-GARNER-ANGLE RAIL
			<b>MODELED BY:</b>		M. LANTZER
			<b>THICKNESS:</b>		
			<b>MATERIAL:</b>		
			<b>SCALE:</b>	0.125	<b>DELUX MFG. CO.</b> KEARNEY, NE
			<b>DATE:</b>	Feb-03-21	
<b>ECO#</b>	<b>LET</b>	<b>DESCRIPTION</b>	<b>DATE</b>	<b>USED ON:</b>	

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED

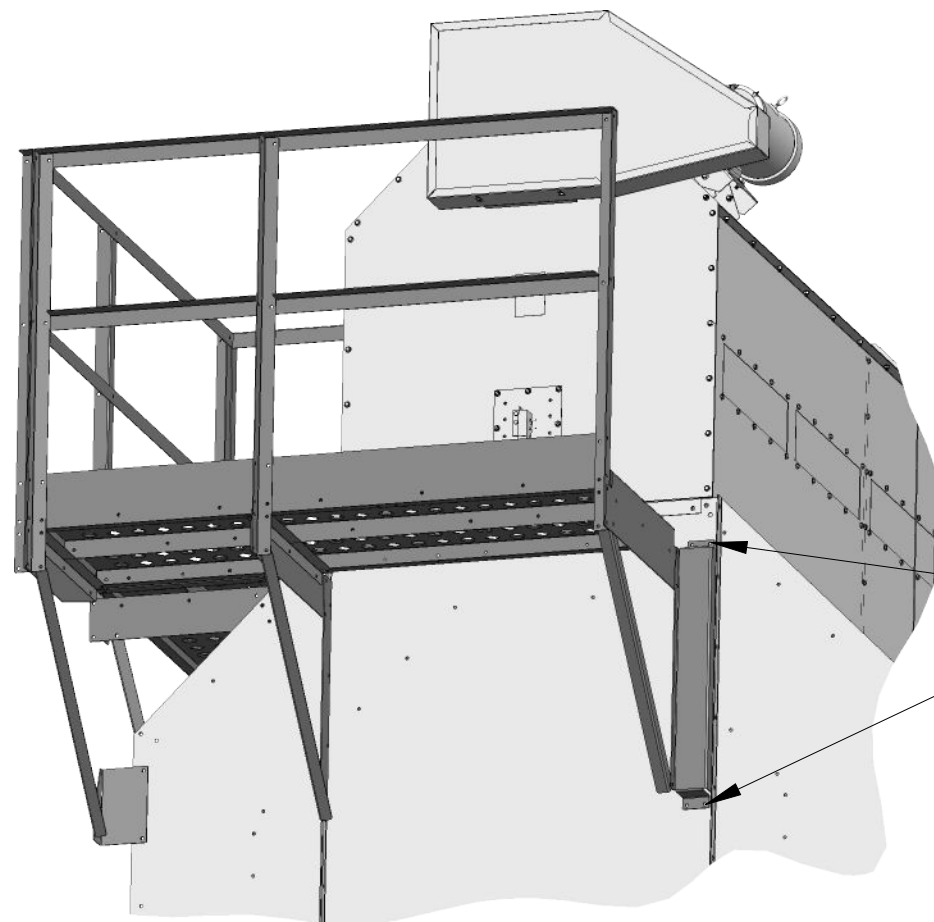




SCALE 0.046



SCALE 0.062



SCALE 0.046

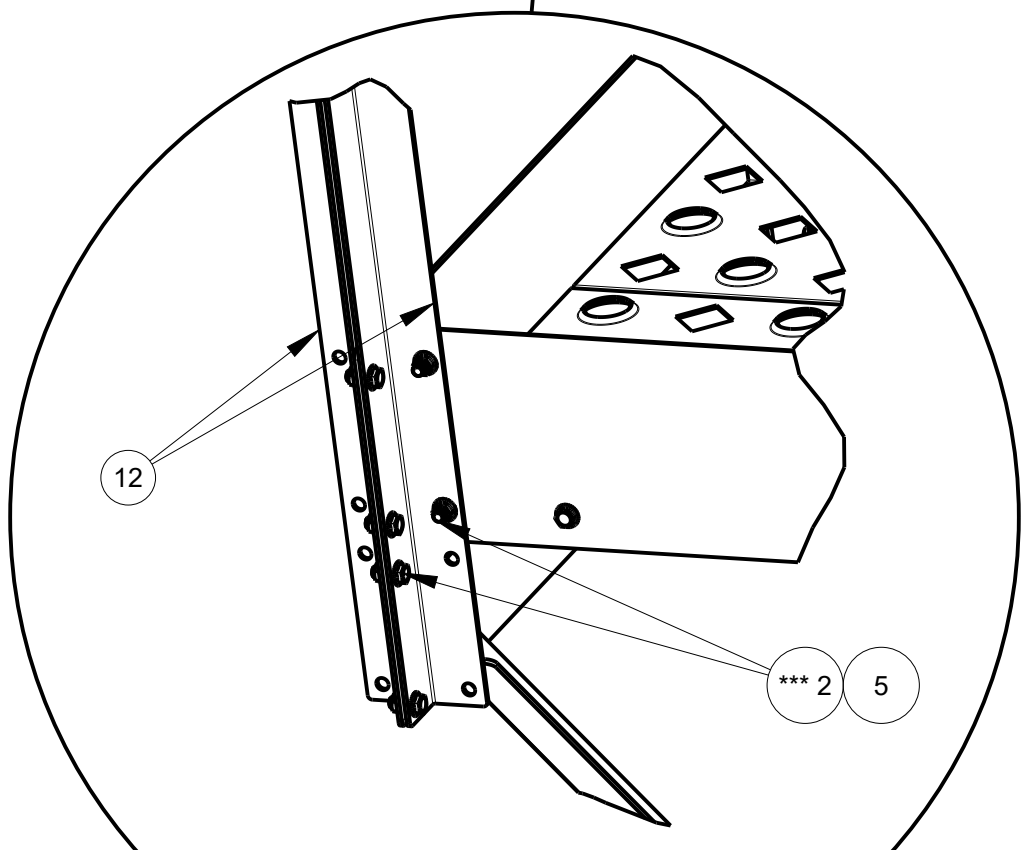
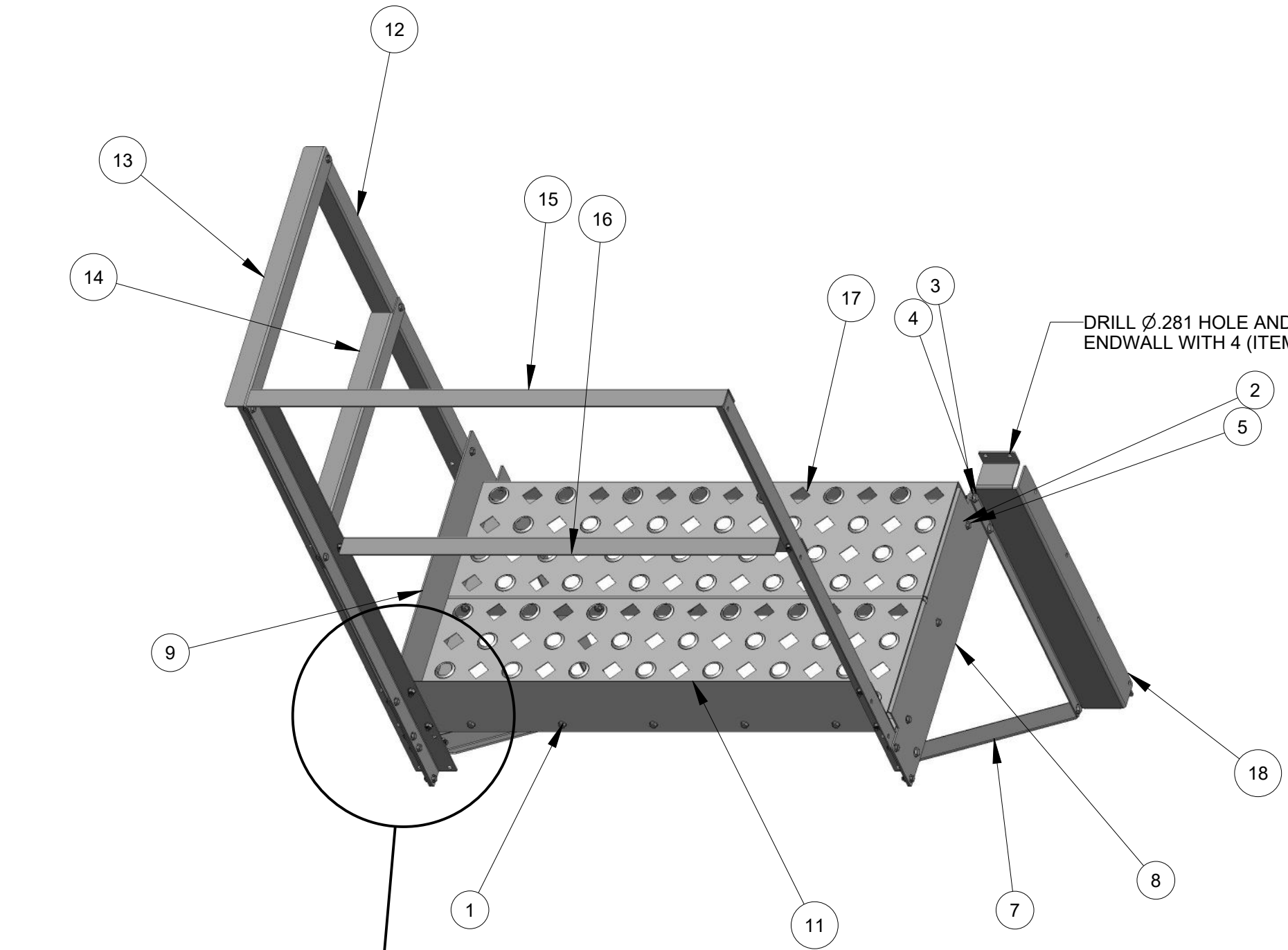
**DRILL  $\phi$ .281 HOLES AND FASTEN TO  
ENDWALL WITH 4 (ITEM 31) 040-002739.**

<b>MASS:</b>		258.727	<b>PART NO.:</b>		035-012636 - Pg. 4 of 4
			<b>DESCRIPTION:</b>		KIT-WALKWAY-GARNER-ANGLE RAIL
			<b>MODELED BY:</b>		M. LANTZER
			<b>THICKNESS:</b>		
			<b>MATERIAL:</b>		
			<b>SCALE:</b>	0.078	<b>DELUX MFG. CO.</b> KEARNEY, NE
			<b>DATE:</b>	Feb-12-21	
<b>ECO#</b>	<b>LET</b>	<b>DESCRIPTION</b>	<b>DATE</b>	<b>USED ON:</b>	
TOLERANCE: DECIMAL $\pm$ .010 FRACTION $\pm$ 1/32 ANGLE $\pm$ 1° UNLESS OTHERWISE SPECIFIED					

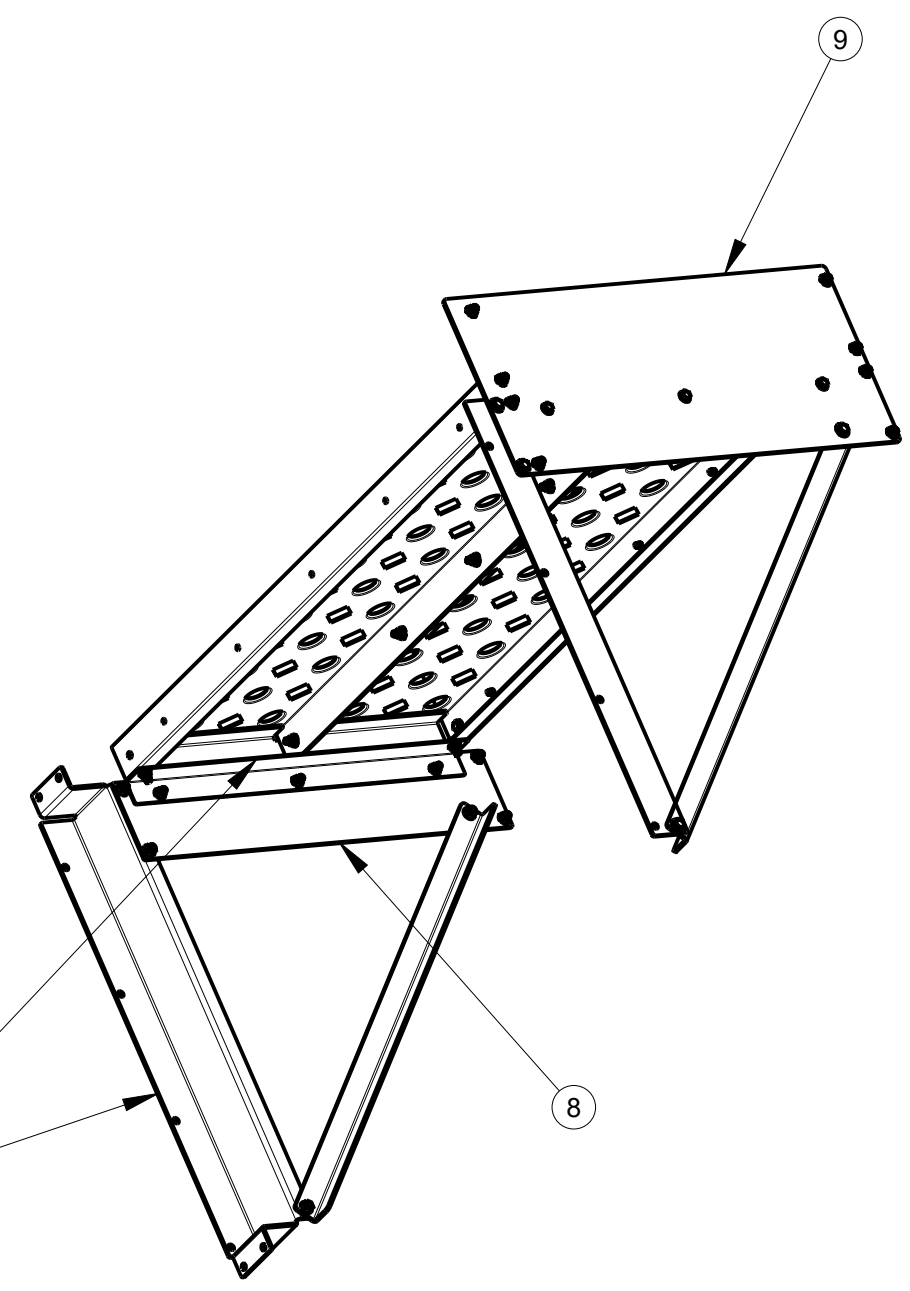
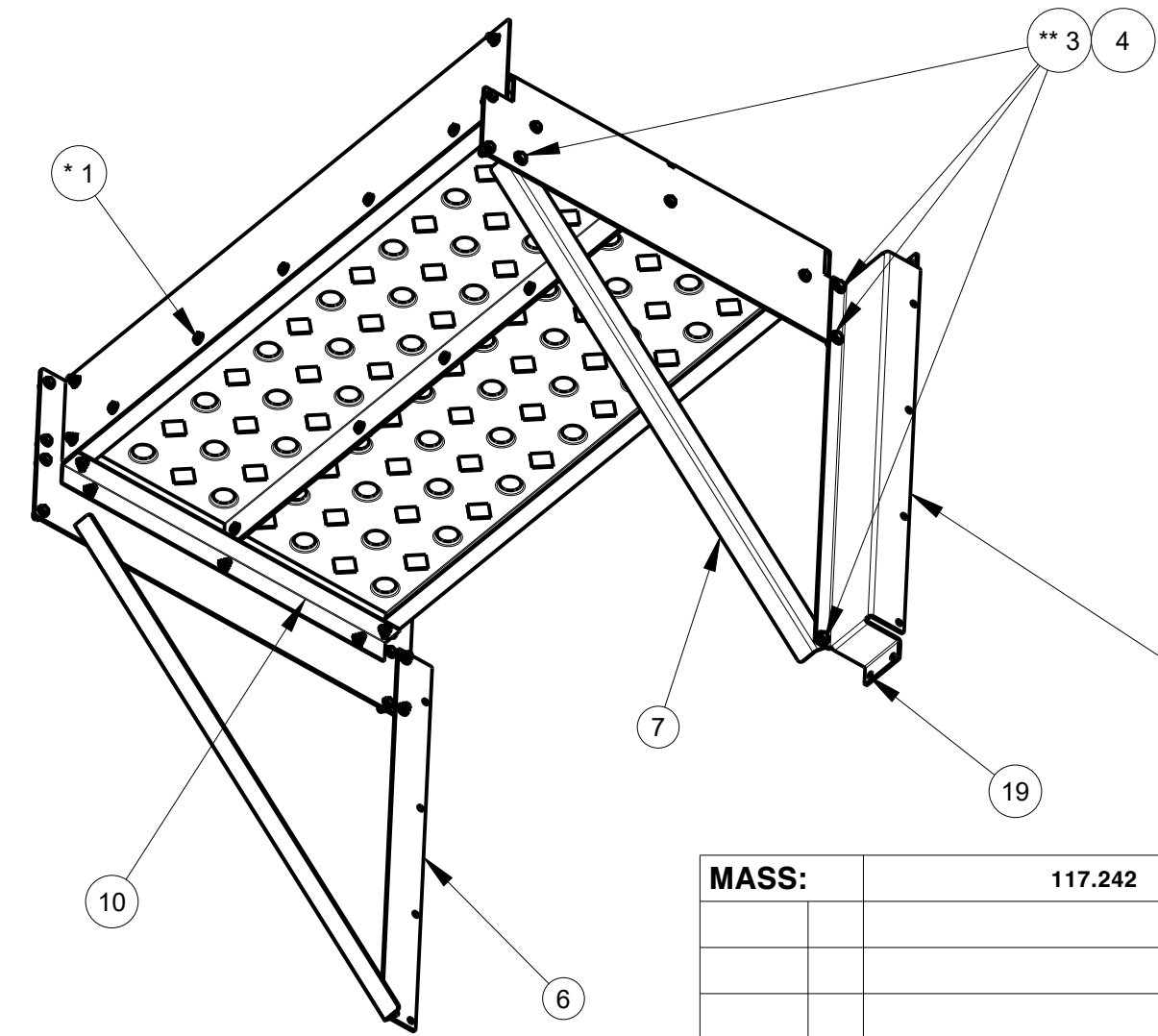
ITEM	PART NO.	QTY	DESCRIPTION
1	040-001450	5	SCREW - TCS - HEX - 5/16-18UNC X 1/2
2	040-001459	37	NUT - WHIZ LOCK - 5/16-18UNC
3	040-001460	8	NUT - WHIZ LOCK - 3/8-16UNC
4	040-002193	8	BOLT - WHIZ LOCK - 3/8-16UNC X 3/4
5	040-005321	37	BOLT - WHIZ LOCK - 5/16-18UNC X 3/4"
6	100-012157	1	WALKWAY SUPPORT-LEFT-GARNER & PLENUM-ANGLE RAIL
7	100-012158	2	WALKWAY BRACE-GARNER & PLENUM-ANGLE RAIL
8	100-012159	1	WALKWAY BRACKET RIGHT-GARNER & PLENUM-ANGLE RAIL
9	100-012160	1	WALKWAY BRACKET LEFT-GARNER/PLENUM-ANGLE RAIL
10	100-012161	2	WALKWAY MOUNT ANGLE-GARNER/PLENUM-ANGLE RAIL
11	100-012162	1	WALKWAY TOEGUARD-FRONT-GARNER/PLENUM-ANGLE RAIL
12	100-012163	4	HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL
13	100-012164	1	HANDRAIL-26.75-TOP-ANGLE RAIL
14	100-012165	1	HANDRAIL-26.75-MID-ANGLE RAIL
15	100-012166	1	HANDRAIL-42"-TOP-ANGLE RAIL
16	100-012167	1	HANDRAIL-42"-MID-ANGLE RAIL
17	100-012168	2	WALKWAY PLANK-12" X 42"-GARNER/PLENUM-ANGLE RAIL
18	100-012197	1	WALKWAY SUPPORT-RIGHT-GARNER & PLENUM-ANGLE RAIL
19	040-002739	4	SCREW TCS HEX 5/16-18UNC X 3/4 ZINC

- \* 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- \*\* 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- \*\*\* 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

DRILL Ø.281 HOLE AND FASTEN TO ENDWALL WITH 4 (ITEM 19) 040-002739.

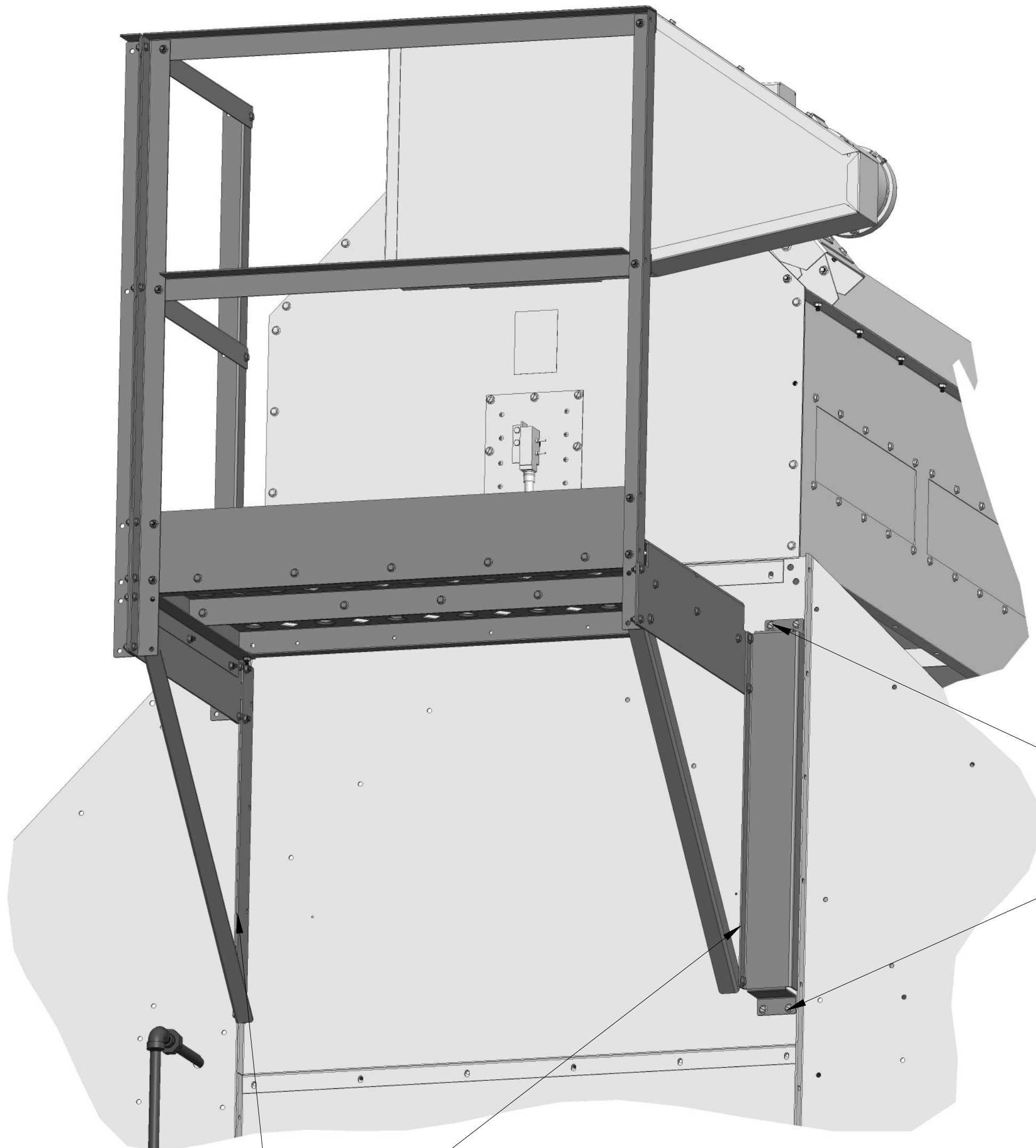


CORNER VERTICAL RAIL DETAIL  
SCALE 0.187



<b>MASS:</b>		117.242	<b>PART NO.:</b>		035-012635
			<b>DESCRIPTION:</b>		KIT-WALKWAY-PLENUM-ANGLE RAIL
			<b>MODELED BY:</b>		M. LANTZER
			<b>THICKNESS:</b>		
			<b>MATERIAL:</b>		
			<b>SCALE:</b>	0.093	<b>DELUX MFG. CO.</b> KEARNEY, NE
			<b>DATE:</b>	Feb-02-21	
			<b>USED ON:</b>		
ECO#	LET	DESCRIPTION	DATE	TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED	



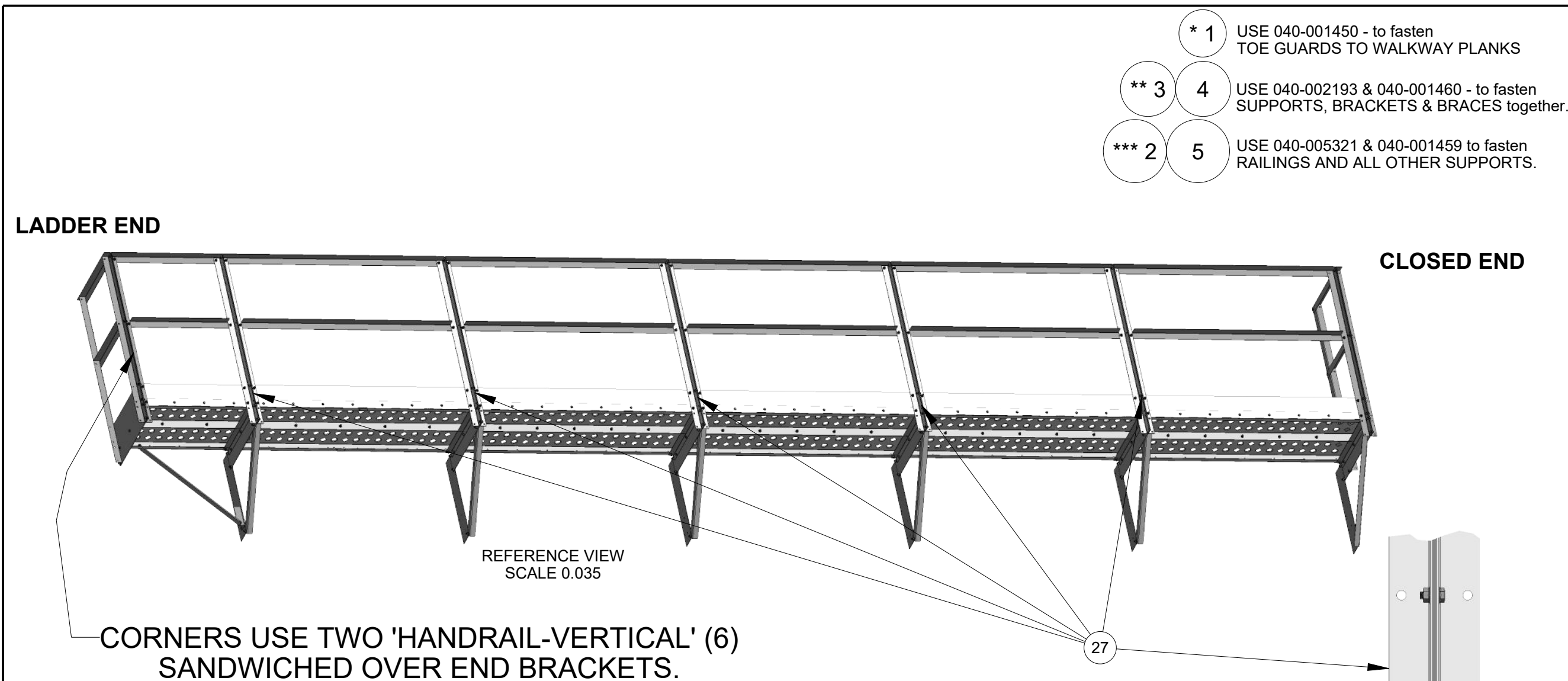


SCALE 0.125

**ATTACH LEFT AND RIGHT SUPPORTS TO INSIDE OF END SHEET LIPS FIRST.**

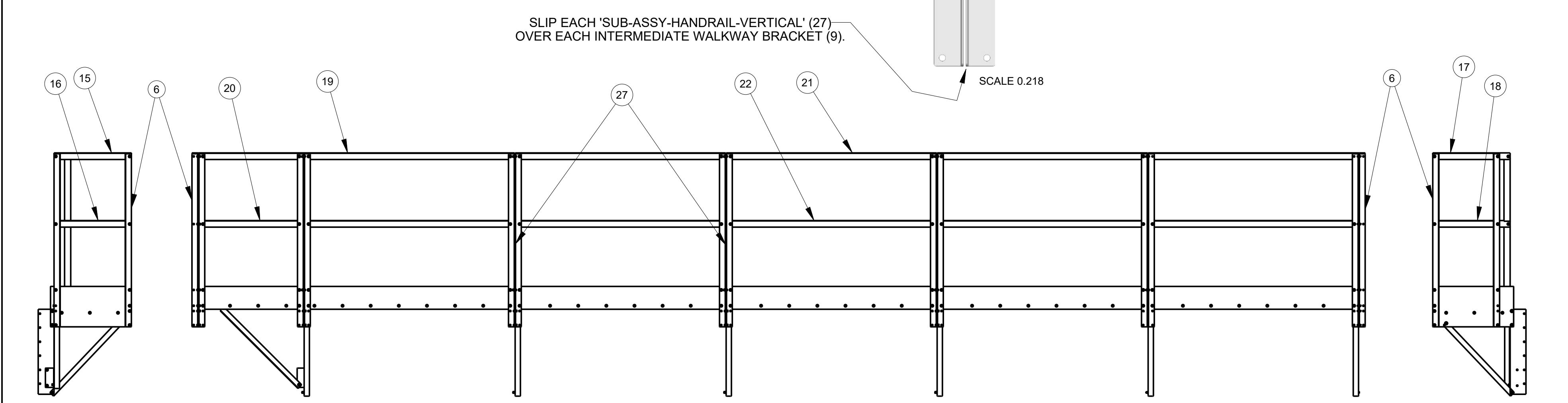
**DRILL Ø.281 HOLES AND FASTEN TO ENDWALL WITH 4 (ITEM 19) 040-002739.**

<b>MASS:</b>		117.242	<b>PART NO.:</b>		035-012635
			<b>DESCRIPTION:</b>		KIT-WALKWAY-PLENUM-ANGLE RAIL
			<b>MODELED BY:</b>		M. LANTZER
			<b>THICKNESS:</b>		
			<b>MATERIAL:</b>		
			<b>SCALE:</b>	0.093	<b>DELUX MFG. CO.</b> KEARNEY, NE
			<b>DATE:</b>	Feb-18-21	
<b>ECO#</b>	<b>LET</b>	<b>DESCRIPTION</b>	<b>DATE</b>	<b>USED ON:</b>	
TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED					



- \* 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- \*\* 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- \*\*\* 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

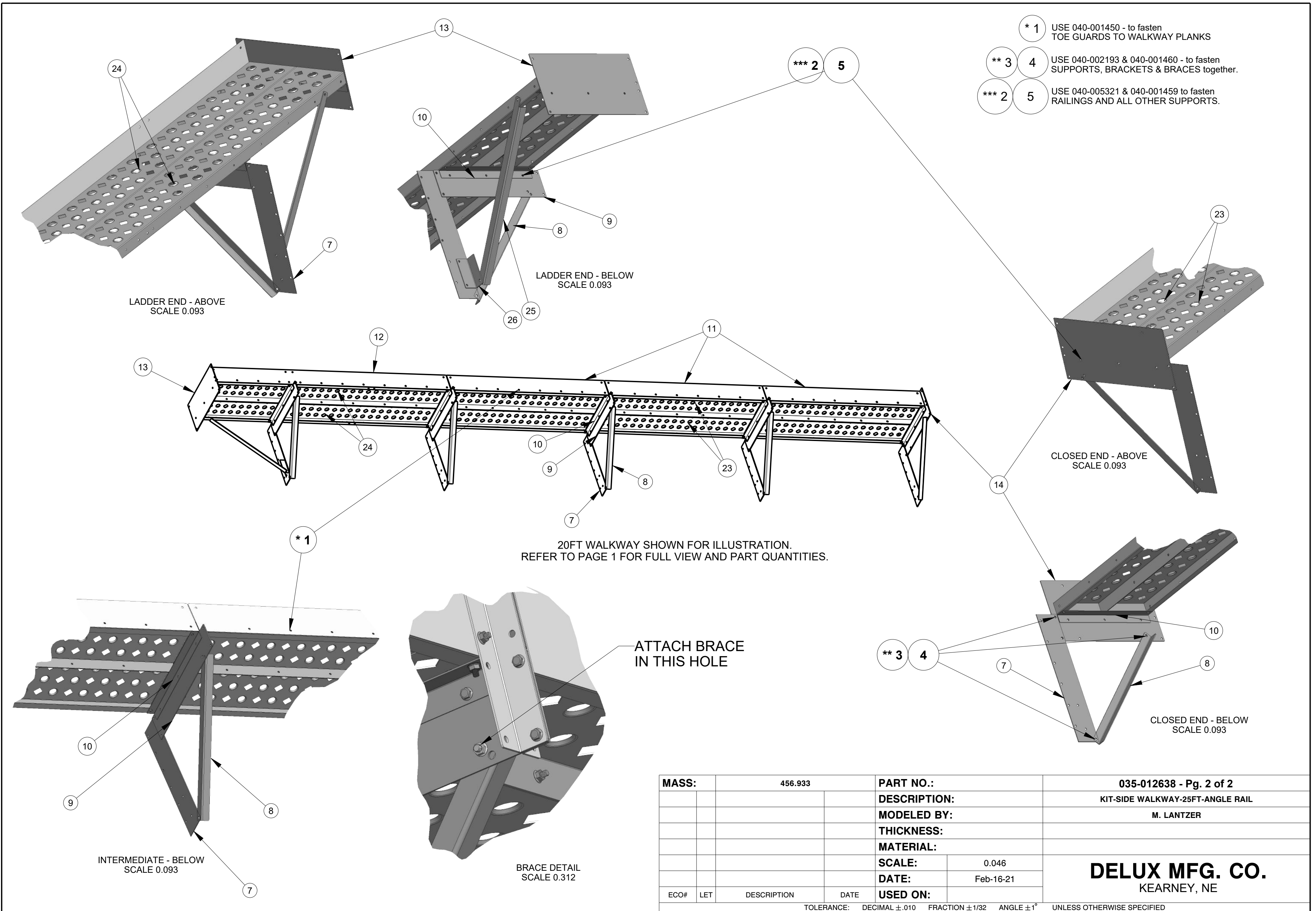
ITEM	PART NUMBER	QTY	DESCRIPTION
1	040-001450	34	SCREW - TCS - HEX - 5/16-18UNC X 1/2
2	040-001459	148	NUT - WHIZ LOCK - 5/16-18UNC
3	040-001460	26	NUT - WHIZ LOCK - 3/8-16UNC
4	040-002193	26	BOLT - WHIZ LOCK - 3/8-16UNC X 3/4
5	040-005321	148	BOLT - WHIZ LOCK - 5/16-18UNC X 3/4"
6	100-012163	6	HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL
7	100-012169	6	WALKWAY SUPPORT-SIDE-ANGLE RAIL
8	100-012170	6	WALKWAY BRACE-SIDE-ANGLE RAIL
9	100-012171	5	WALKWAY BRACKET-20" SIDE-ANGLE RAIL
10	100-012172	12	WALKWAY MOUNT ANGLE-20" SIDE-ANGLE RAIL
11	100-012175	4	WALKWAY TOE GUARD-60"-SIDE-ANGLE RAIL
12	100-012176	1	WALKWAY TOE GUARD-90"-SIDE-ANGLE RAIL
13	100-012177	1	WALKWAY BRACKET-LADDER END-20" SIDE-ANGLE RAIL
14	100-012178	1	WALKWAY BRACKET-CLOSED END-20" SIDE-ANGLE RAIL
15	100-012179	1	HANDRAIL-22"-TOP-ANGLE RAIL
16	100-012180	1	HANDRAIL-22"-MID-ANGLE RAIL
17	100-012181	1	HANDRAIL-19"-TOP-ANGLE RAIL
18	100-012182	1	HANDRAIL-19"-MID-ANGLE RAIL
19	100-012183	1	HANDRAIL-90"-TOP-ANGLE RAIL
20	100-012184	1	HANDRAIL-30"-MID-ANGLE RAIL
21	100-012185	4	HANDRAIL-60"-TOP-ANGLE RAIL
22	100-012186	5	HANDRAIL-60"-MID-ANGLE RAIL
23	100-012188	8	WALKWAY PLANK-10" X 60"-ANGLE RAIL
24	100-012189	2	WALKWAY PLANK-10" X 90"-ANGLE RAIL
25	100-012192	1	WALKWAY BRACE-LADDER END-ANGLE RAIL
26	100-012193	1	WALKWAY BRACKET ANGLE-LADDER END-ANGLE RAIL
27	300-012174	5	SUB ASSY-HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL



<b>MASS:</b>	543.569	<b>PART NO.:</b>	035-012638 - Pg. 1 of 2
		<b>DESCRIPTION:</b>	KIT-SIDE WALKWAY-25FT-ANGLE RAIL
		<b>MODELED BY:</b>	M. LANTZER
		<b>THICKNESS:</b>	
		<b>MATERIAL:</b>	
		<b>SCALE:</b>	0.046
		<b>DATE:</b>	Feb-16-21
<b>ECO#</b>	<b>LET</b>	<b>DESCRIPTION</b>	<b>DATE</b>

**DELUX MFG. CO.**  
KEARNEY, NE

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED



- \* 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- \*\* 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- \*\*\* 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

20FT WALKWAY SHOWN FOR ILLUSTRATION.  
REFER TO PAGE 1 FOR FULL VIEW AND PART QUANTITIES.

ATTACH BRACE  
IN THIS HOLE

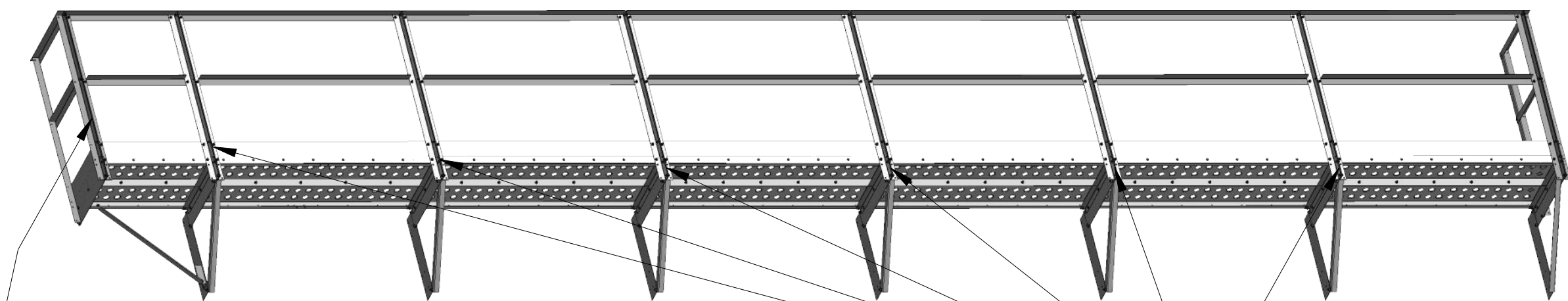
<b>MASS:</b>		456.933	<b>PART NO.:</b>		035-012638 - Pg. 2 of 2	
			<b>DESCRIPTION:</b>		KIT-SIDE WALKWAY-25FT-ANGLE RAIL	
			<b>MODELED BY:</b>		M. LANTZER	
			<b>THICKNESS:</b>			
			<b>MATERIAL:</b>			
			<b>SCALE:</b>	0.046	<b>DELUX MFG. CO.</b> KEARNEY, NE	
			<b>DATE:</b>	Feb-16-21		
			<b>USED ON:</b>			
ECO#	LET	DESCRIPTION	DATE	TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED		

- \* 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- \*\* 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- \*\*\* 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

ITEM	PART NUMBER	QTY	DESCRIPTION
1	040-001450	40	SCREW - TCS - HEX - 5/16-18UNC X 1/2
2	040-001459	174	NUT - WHIZ LOCK - 5/16-18UNC
3	040-001460	30	NUT - WHIZ LOCK - 3/8-16UNC
4	040-002193	30	BOLT - WHIZ LOCK - 3/8-16UNC X 3/4
5	040-005321	174	BOLT - WHIZ LOCK - 5/16-18UNC X 3/4"
6	100-012163	6	HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL
7	100-012169	7	WALKWAY SUPPORT-SIDE-ANGLE RAIL
8	100-012170	7	WALKWAY BRACE-SIDE-ANGLE RAIL
9	100-012171	6	WALKWAY BRACKET-20" SIDE-ANGLE RAIL
10	100-012172	14	WALKWAY MOUNT ANGLE-20" SIDE-ANGLE RAIL
11	100-012175	5	WALKWAY TOE GUARD-60"-SIDE-ANGLE RAIL
12	100-012176	1	WALKWAY TOE GUARD-90"-SIDE-ANGLE RAIL
13	100-012177	1	WALKWAY BRACKET-LADDER END-20" SIDE-ANGLE RAIL
14	100-012178	1	WALKWAY BRACKET-CLOSED END-20" SIDE-ANGLE RAIL
15	100-012179	1	HANDRAIL-22"-TOP-ANGLE RAIL
16	100-012180	1	HANDRAIL-22"-MID-ANGLE RAIL
17	100-012181	1	HANDRAIL-19"-TOP-ANGLE RAIL
18	100-012182	1	HANDRAIL-19"-MID-ANGLE RAIL
19	100-012183	1	HANDRAIL-90"-TOP-ANGLE RAIL
20	100-012184	1	HANDRAIL-30"-MID-ANGLE RAIL
21	100-012185	5	HANDRAIL-60"-TOP-ANGLE RAIL
22	100-012186	6	HANDRAIL-60"-MID-ANGLE RAIL
23	100-012188	10	WALKWAY PLANK-10" X 60"-ANGLE RAIL
24	100-012189	2	WALKWAY PLANK-10" X 90"-ANGLE RAIL
25	100-012192	1	WALKWAY BRACE-LADDER END-ANGLE RAIL
26	100-012193	1	WALKWAY BRACKET ANGLE-LADDER END-ANGLE RAIL
27	300-012174	6	SUB ASSY-HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL

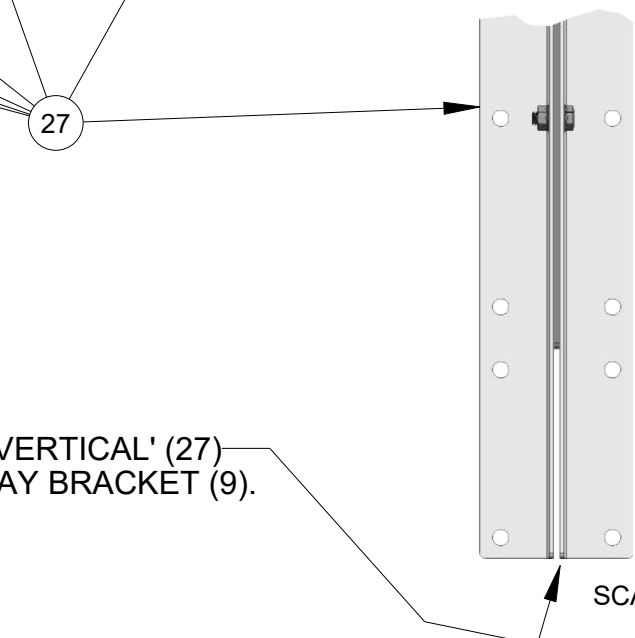
LADDER END

CLOSED END



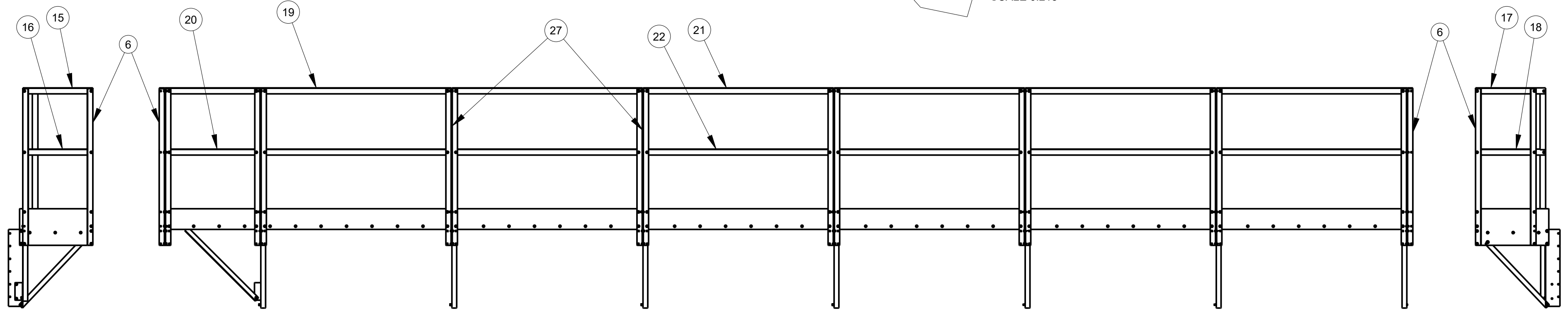
REFERENCE VIEW  
SCALE 0.032

CORNERS USE TWO 'HANDRAIL-VERTICAL' (6)  
SANDWICHED OVER END BRACKETS.



SLIP EACH 'SUB-ASSY-HANDRAIL-VERTICAL' (27)  
OVER EACH INTERMEDIATE WALKWAY BRACKET (9).

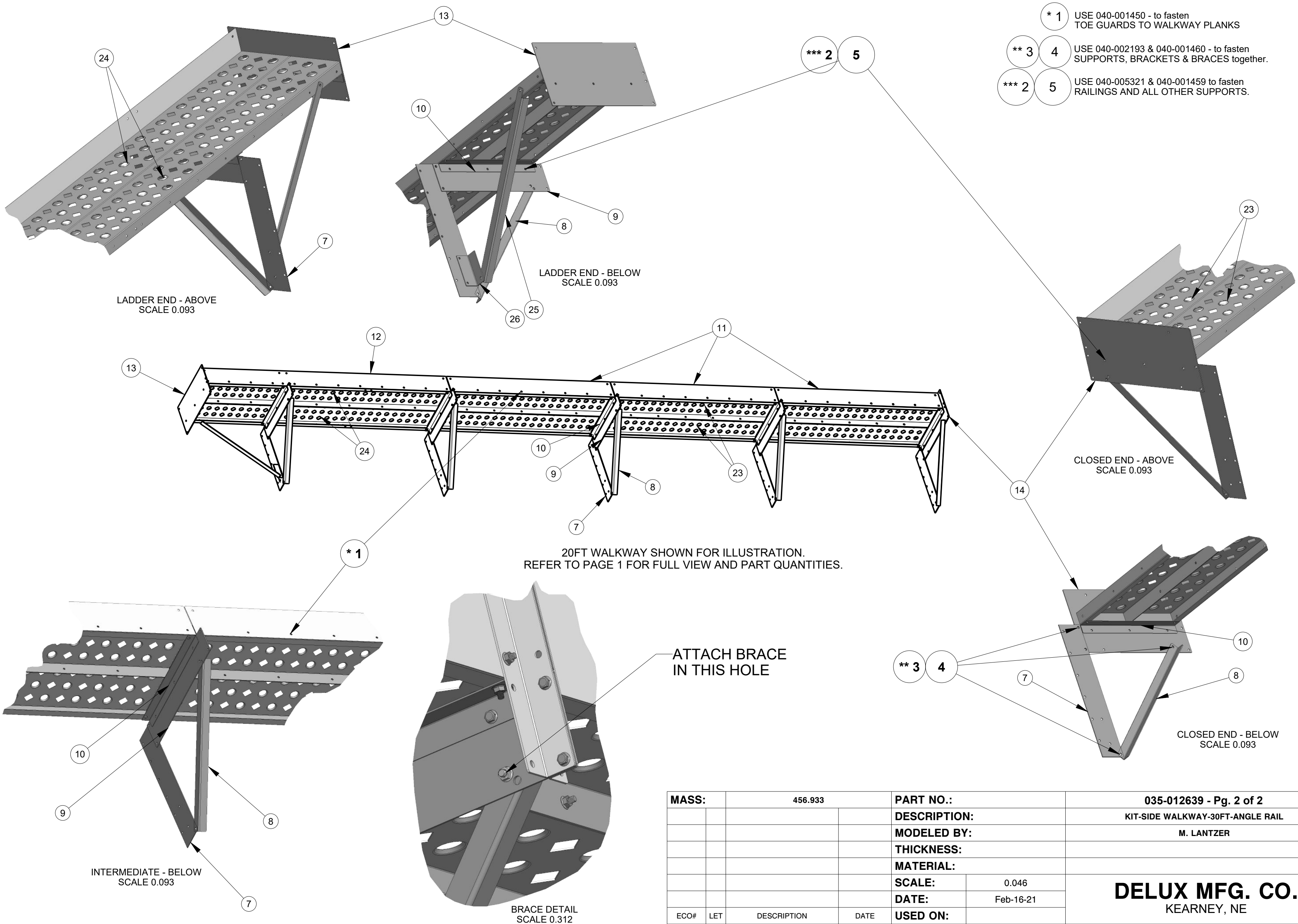
SCALE 0.218



<b>MASS:</b>	631.361	<b>PART NO.:</b>	035-012639 - Pg. 1 of 2
		<b>DESCRIPTION:</b>	KIT-SIDE WALKWAY-30FT-ANGLE RAIL
		<b>MODELED BY:</b>	M. LANTZER
		<b>THICKNESS:</b>	
		<b>MATERIAL:</b>	
		<b>SCALE:</b>	0.040
		<b>DATE:</b>	Feb-16-21
<b>ECO#</b>	<b>LET</b>	<b>DESCRIPTION</b>	<b>DATE</b>

**DELUX MFG. CO.**  
KEARNEY, NE

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED



- \* 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- \*\* 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- \*\*\* 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

20FT WALKWAY SHOWN FOR ILLUSTRATION.  
REFER TO PAGE 1 FOR FULL VIEW AND PART QUANTITIES.

ATTACH BRACE  
IN THIS HOLE

<b>MASS:</b>		456.933	<b>PART NO.:</b>		035-012639 - Pg. 2 of 2
			<b>DESCRIPTION:</b>		KIT-SIDE WALKWAY-30FT-ANGLE RAIL
			<b>MODELED BY:</b>		M. LANTZER
			<b>THICKNESS:</b>		
			<b>MATERIAL:</b>		
			<b>SCALE:</b>	0.046	
			<b>DATE:</b>	Feb-16-21	
ECO#	LET	DESCRIPTION	DATE	<b>USED ON:</b>	
TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED					

**DELUX MFG. CO.**  
KEARNEY, NE

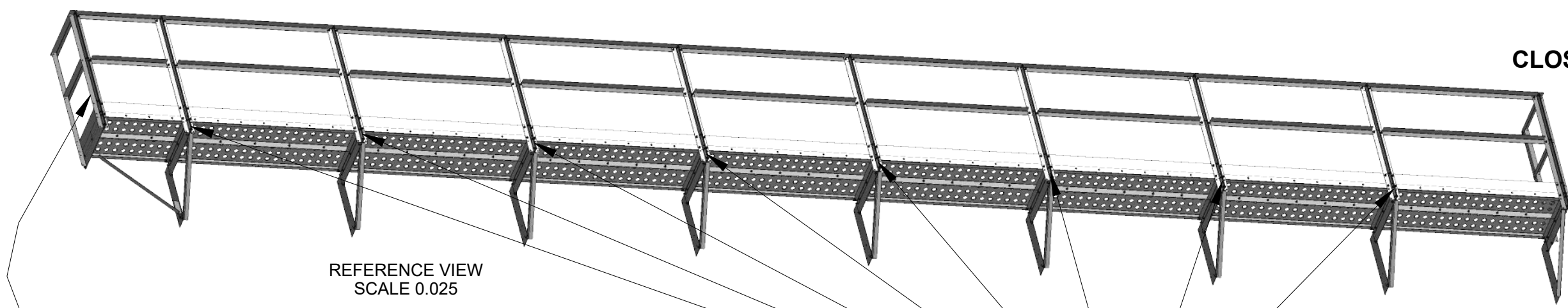


- \* 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- \*\* 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- \*\*\* 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

ITEM	PART NUMBER	QTY	DESCRIPTION
1	040-001450	52	SCREW - TCS - HEX - 5/16-18UNC X 1/2
2	040-001459	218	NUT - WHIZ LOCK - 5/16-18UNC
3	040-001460	38	NUT - WHIZ LOCK - 3/8-16UNC
4	040-002193	38	BOLT - WHIZ LOCK - 3/8-16UNC X 3/4
5	040-005321	218	BOLT - WHIZ LOCK - 5/16-18UNC X 3/4"
6	100-012163	6	HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL
7	100-012169	9	WALKWAY SUPPORT-SIDE-ANGLE RAIL
8	100-012170	9	WALKWAY BRACE-SIDE-ANGLE RAIL
9	100-012171	8	WALKWAY BRACKET-20" SIDE-ANGLE RAIL
10	100-012172	18	WALKWAY MOUNT ANGLE-20" SIDE-ANGLE RAIL
11	100-012175	7	WALKWAY TOE GUARD-60"-SIDE-ANGLE RAIL
12	100-012176	1	WALKWAY TOE GUARD-90"-SIDE-ANGLE RAIL
13	100-012177	1	WALKWAY BRACKET-LADDER END-20" SIDE-ANGLE RAIL
14	100-012178	1	WALKWAY BRACKET-CLOSED END-20" SIDE-ANGLE RAIL
15	100-012179	1	HANDRAIL-22"-TOP-ANGLE RAIL
16	100-012180	1	HANDRAIL-22"-MID-ANGLE RAIL
17	100-012181	1	HANDRAIL-19"-TOP-ANGLE RAIL
18	100-012182	1	HANDRAIL-19"-MID-ANGLE RAIL
19	100-012183	1	HANDRAIL-90"-TOP-ANGLE RAIL
20	100-012184	1	HANDRAIL-30"-MID-ANGLE RAIL
21	100-012185	7	HANDRAIL-60"-TOP-ANGLE RAIL
22	100-012186	8	HANDRAIL-60"-MID-ANGLE RAIL
23	100-012188	14	WALKWAY PLANK-10" X 60"-ANGLE RAIL
24	100-012189	2	WALKWAY PLANK-10" X 90"-ANGLE RAIL
25	100-012192	1	WALKWAY BRACE-LADDER END-ANGLE RAIL
26	100-012193	1	WALKWAY BRACKET ANGLE-LADDER END-ANGLE RAIL
27	300-012174	8	SUB ASSY-HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL

LADDER END

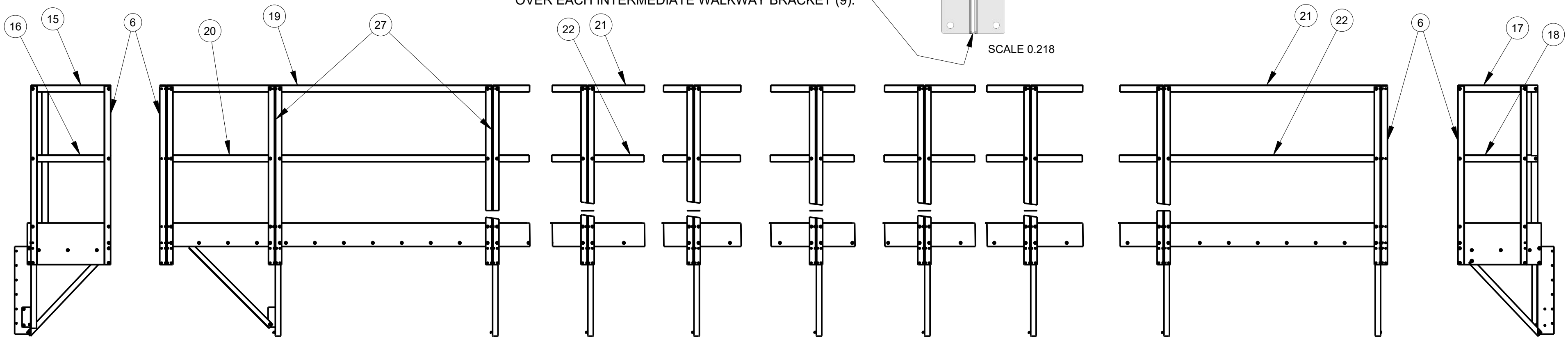
CLOSED END



REFERENCE VIEW  
SCALE 0.025

CORNERS USE TWO 'HANDRAIL-VERTICAL' (6)  
SANDWICHED OVER END BRACKETS.

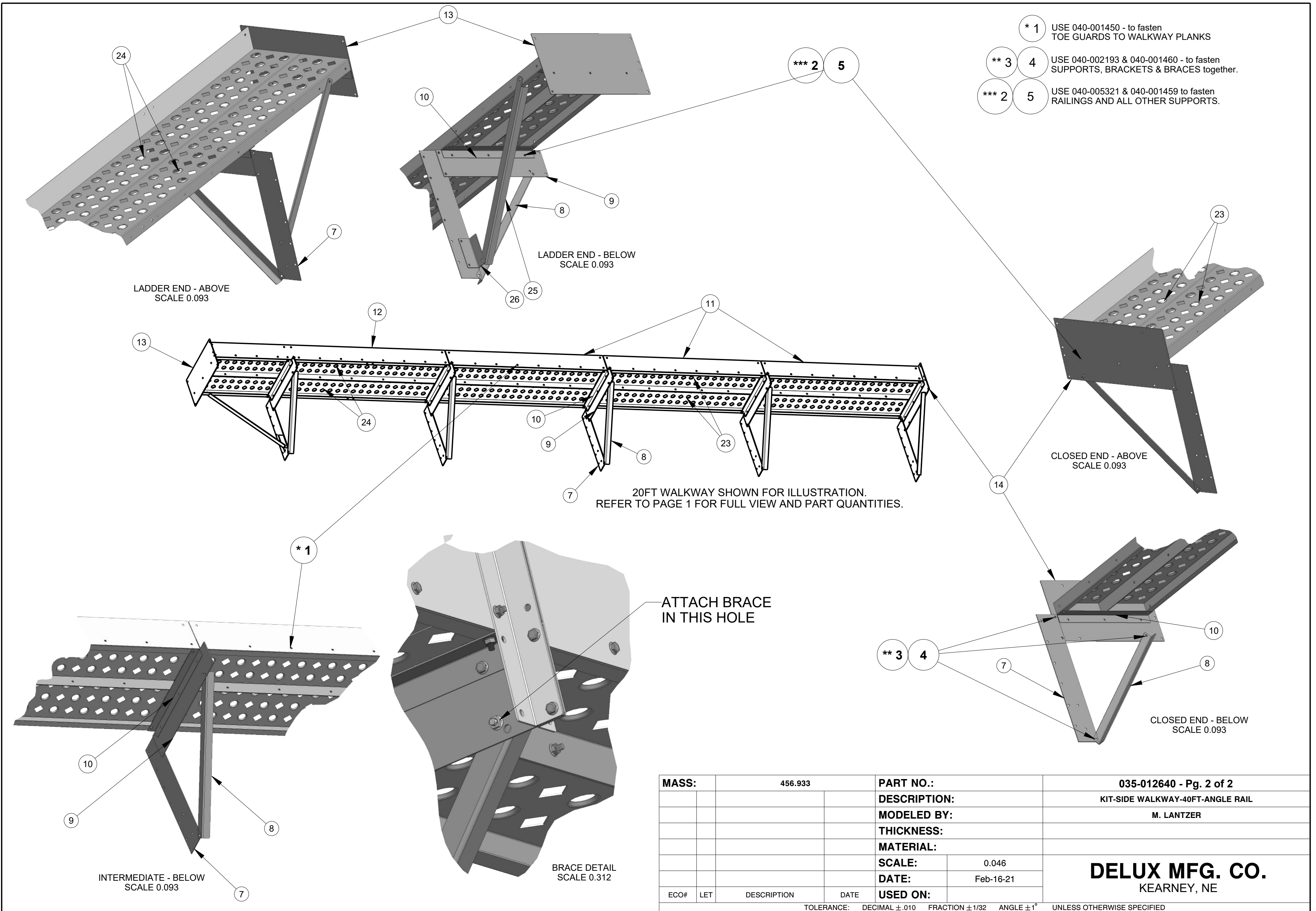
SLIP EACH 'SUB-ASSY-HANDRAIL-VERTICAL' (27)  
OVER EACH INTERMEDIATE WALKWAY BRACKET (9).



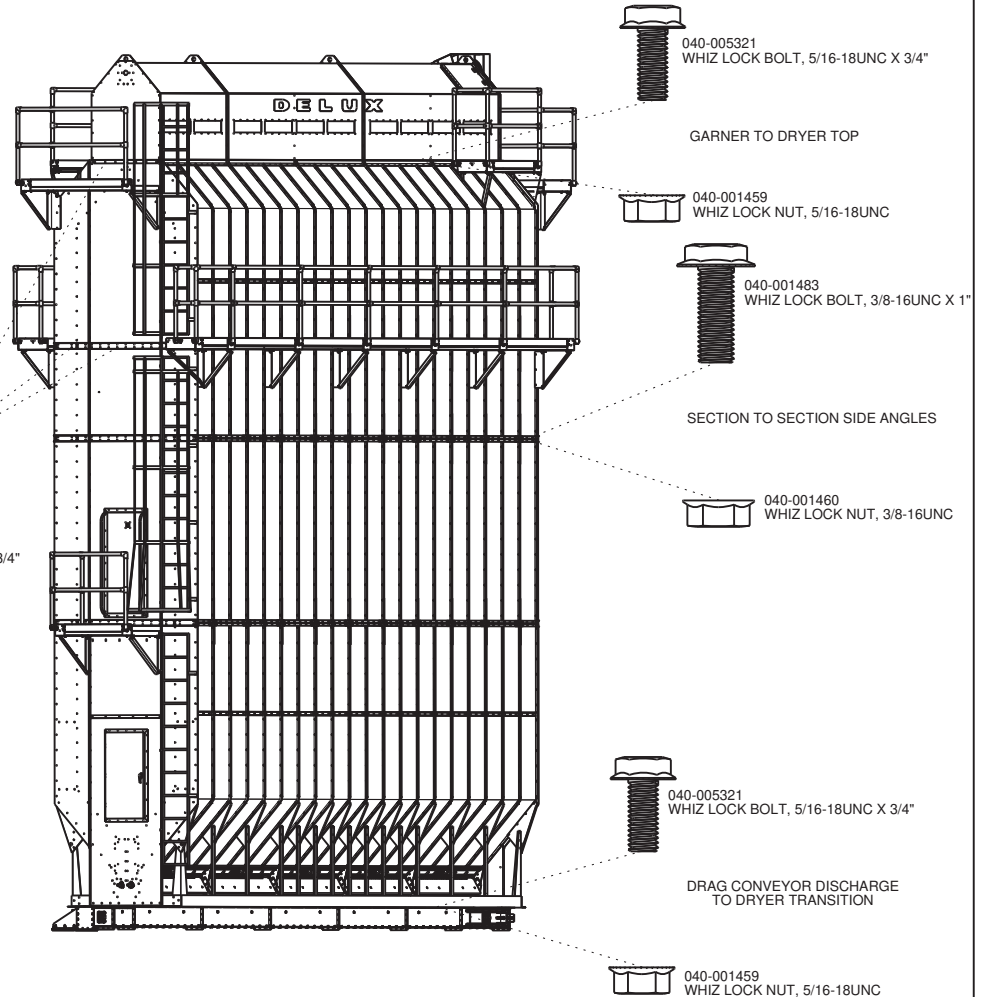
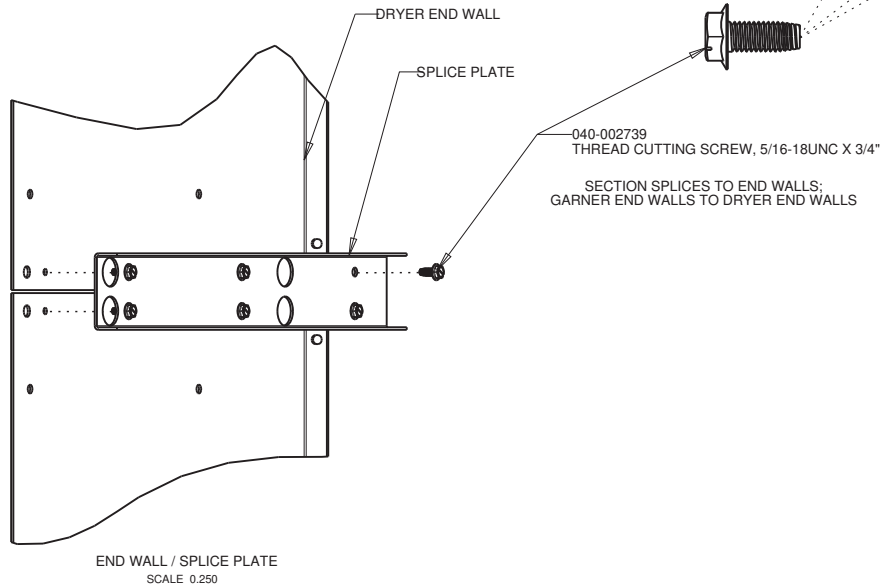
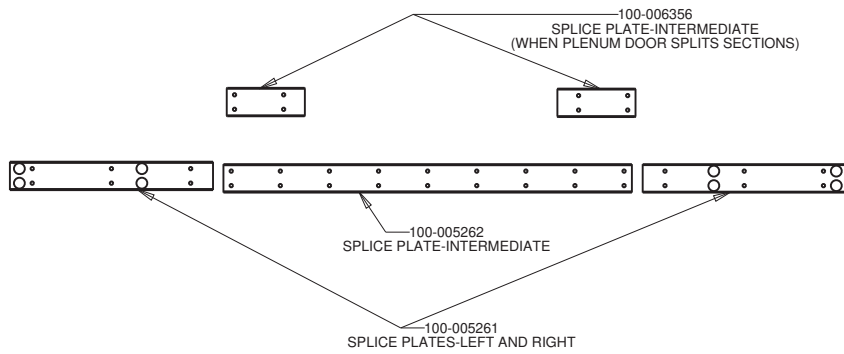
<b>MASS:</b>	805.789	<b>PART NO.:</b>	035-012640 - Pg. 1 of 2
		<b>DESCRIPTION:</b>	KIT-SIDE WALKWAY-40FT-ANGLE RAIL
		<b>MODELED BY:</b>	M. LANTZER
		<b>THICKNESS:</b>	
		<b>MATERIAL:</b>	
		<b>SCALE:</b>	0.046
		<b>DATE:</b>	Feb-16-21
<b>ECO#</b>	<b>LET</b>	<b>DESCRIPTION</b>	<b>DATE</b>

**DELUX MFG. CO.**  
KEARNEY, NE

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED



<b>MASS:</b>		456.933	<b>PART NO.:</b>		035-012640 - Pg. 2 of 2
			<b>DESCRIPTION:</b>		KIT-SIDE WALKWAY-40FT-ANGLE RAIL
			<b>MODELED BY:</b>		M. LANTZER
			<b>THICKNESS:</b>		
			<b>MATERIAL:</b>		
			<b>SCALE:</b>	0.046	<b>DELUX MFG. CO.</b> KEARNEY, NE
			<b>DATE:</b>	Feb-16-21	
			<b>USED ON:</b>		
ECO#	LET	DESCRIPTION	DATE	TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED	



			DRAWN BY MEL	<b>DELUX MFG. CO.</b> KEARNEY, NE		TITLE: ILLUSTRATION ERECTION DPX/DPXSL; 4T; 8T; 12T; 16GT	
			DATE 12/28/04				
			CHK'D	USED ON:			
C	UPDATE FOR EXPANDED MODELS	07/25/12	SCALE		NEXT ASSY:		
B	REDRAWN	12/28/04	.020 (C' SIZE)		MATL.	SHEAR SIZE	DRAWING NO. 900-005526
ECO#	LET	DESCRIPTION	DATE				

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED



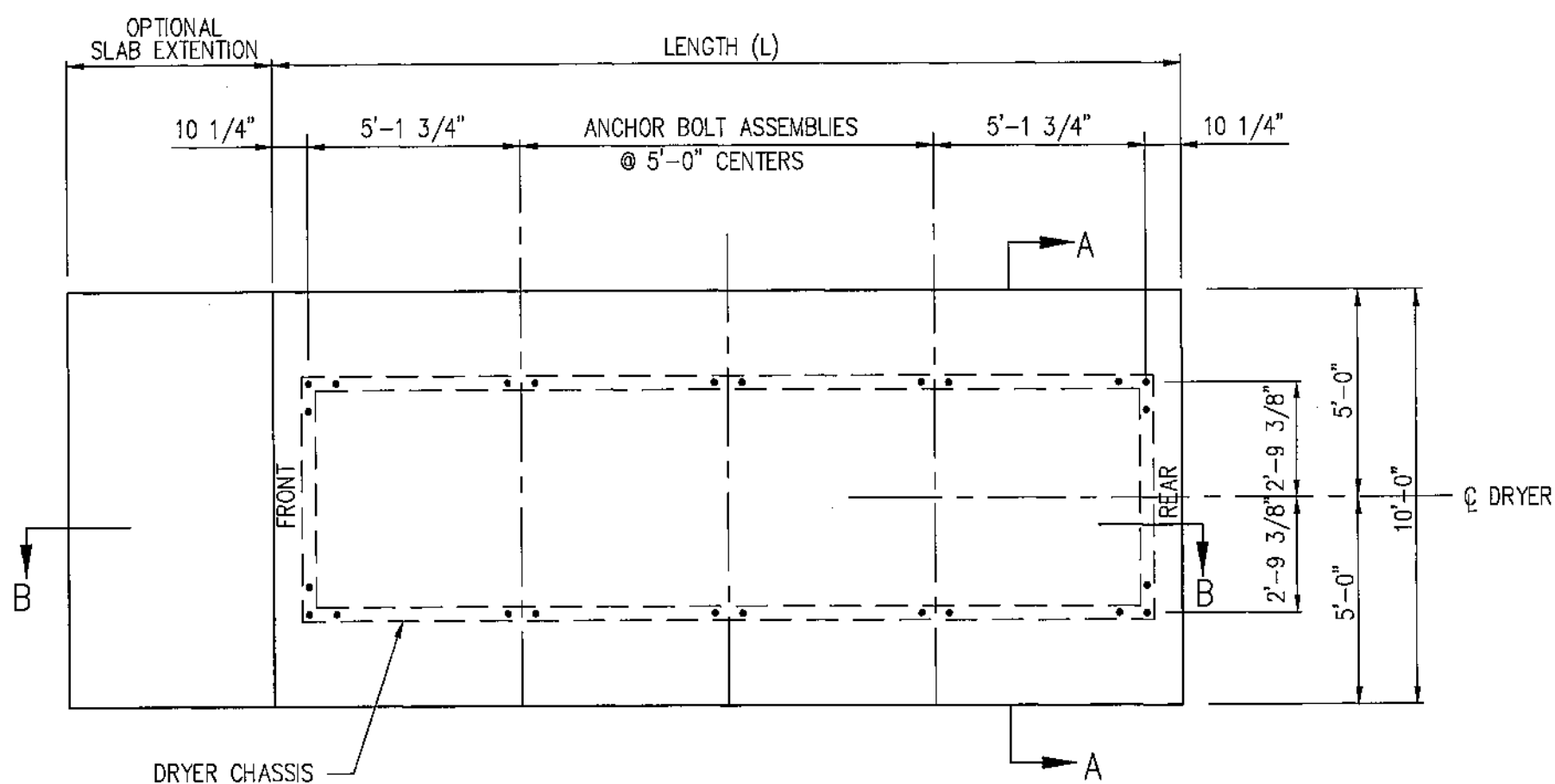
ECN	DATE	CHANGE	AUTH



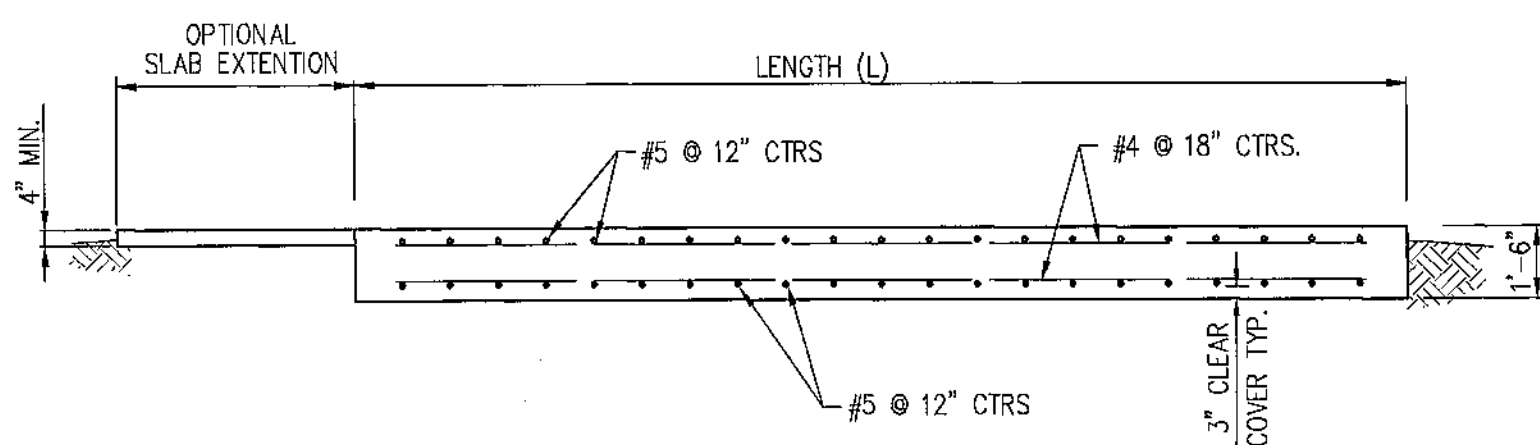
MILLER & ASSOCIATES  
CONSULTING  
ENGINEERS,  
P.C.

SCALE:  
1/4" = 1'-0"  
PROJECT NO.  
130-P167-002  
DATE:  
JANUARY, 1987  
DRAWN BY:  
BKS  
APPROVED BY:  
SYJ  
DRAWING NO.  
6704

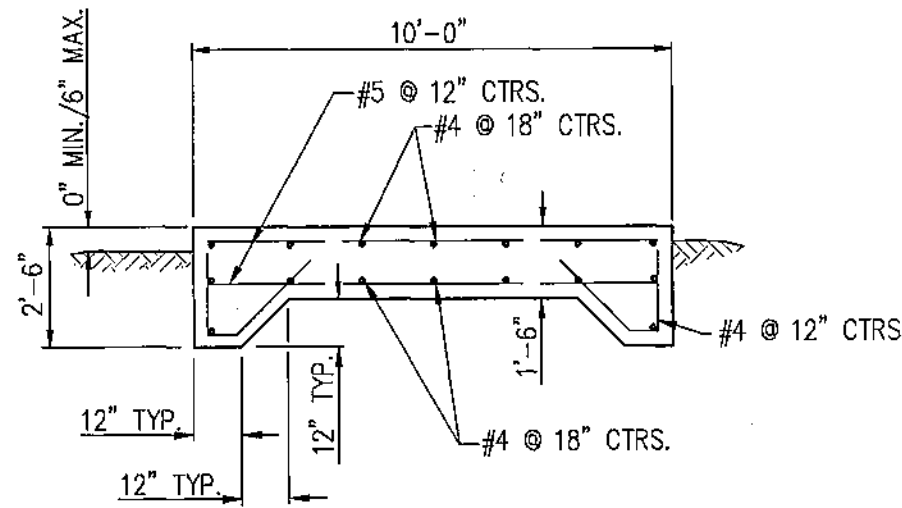
- NOTES:
- "FRONT" INDICATES CONTROL PANEL END OF DRYER.
  - OPTIONAL SLAB EXTENSION IS FOR CONCRETE WORK AREA AT CONTROL PANEL END. A MINIMUM LENGTH OF 5 FEET SHOULD BE USED.



PLAN VIEW



SECTION B-B



SECTION A-A

FOUNDATION PLAN  
MSF-DP-DPSL SERIES

DELUX MFG. CO.  
AIR BASE ROAD  
KEARNEY, NEBRASKA



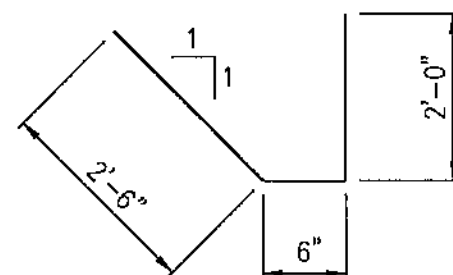
DELUX DRAWING NO.  
900-006320  
SHEET 1 OF 2

M&A, INC. 10/80

MODEL NO.	FOOTING LENGTH (L)	CONCRETE C.Y.	REINF. STEEL
DP 3015	12'	8.0	26-#5x 9'-6"
DPSL 3520			14-#4x 11'-6"
MSF 31010			26-#4x 5'-0" BENT
MSF 41515			
DP 4025	17'	11.3	36-#5x 9'-6"
DPSL 4530			16-#4x 16'-6"
MSF 62520			36-#4x 5'-0" BENT
MSF 72525			
DP 6030	22'	14.7	46-#5x 9'-6"
DPSL 7040			16-#4x 21'-6"
			46-#4x 5'-0" BENT
DP 7550	27'	18.0	56-#5x 9'-6"
DPSL 8560			16-#4x 26'-6"
			56-#4x 5'-0" BENT
DP 9045	32'	21.3	66-#5x 9'-6"
DPSL 10560			16-#4x 31'-6"
			66-#4x 5'-0" BENT
DP 12060	42'	28.0	86-#5x 9'-6"
DPSL 14080			16-#4x 41'-6"
			86-#4x 5'-0" BENT

**NOTES:**

QUANTITY CONCRETE SHOWN IN THIS TABLE IS BASED ON THE NEAT FOOTING DIMENSIONS AND IS PROVIDED FOR INFORMATION ONLY. ACTUAL QUANTITY REQUIRED MAY VARY BASED ON EXCAVATION DIMENSIONS; OPTIONAL SLAB EXTENSION AND YIELD OF CONCRETE SUPPLIED.



**BENDING DIAGRAM FOR #4 REBAR**

ECN	DATE	CHANGE	AUTH
	9/30/98	ADDED MODEL No.s DPSL & MSF	SKJ



MILLER & ASSOCIATES CONSULTING ENGINEERS, P.C.

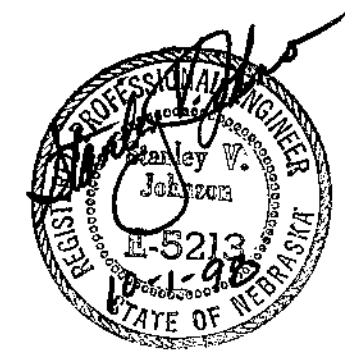
SCALE:  
PROJECT NO. 130-P167-002  
DATE: JANUARY, 1987  
DRAWN BY: BKS  
APPROVED BY: SKJ  
DRAWING NO. 6803

**GENERAL NOTES**

1. THIS FOOTING IS DESIGNED IN ACCORDANCE WITH THE 1994 UNIFORM BUILDING CODE. BASIC WIND SPEED IS 80 MPH, EXPOSURE C.
2. FOOTINGS ARE DESIGNED FOR THE SPECIFIC MODEL NUMBER LISTED WITH A 4 FOOT MAXIMUM LEG EXTENSION.
3. ANCHORS SHALL BE 5/8" DOUBLE CONE ANCHORS AS MANUFACTURED BY RAWLPLUG CO. INC. OR EQUAL. HOLES FOR ANCHORS WILL BE DRILLED AFTER DRYER IS SET. PROVIDE 2"x 2"x 1/4" PLATE WASHERS FOR EACH ANCHOR.
4. DRYER MUST BE LEVEL ALONG LENGTH AND WIDTH AT ALL TIMES DURING DRYING PROCESS.
5. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
6. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
7. MINIMUM SOIL BEARING CAPACITY SHALL BE 1000 PSF.

**FOUNDATION PLAN**  
MSF-DP-DPSL SERIES

**DELUX MFG. CO.**  
AIR BASE ROAD  
KEARNEY, NEBRASKA



DELUX DRAWING NO. 900-006320  
SHEET 2 OF 2

B7 11 118-12814 © Project 130-P167-002(130-#11814)

ECN	DATE	CHANGE	AUTH

**M&A**  
**MILLER & ASSOCIATES CONSULTING ENGINEERS, P.C.**

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SCALE:  
1/4" = 1'-0"

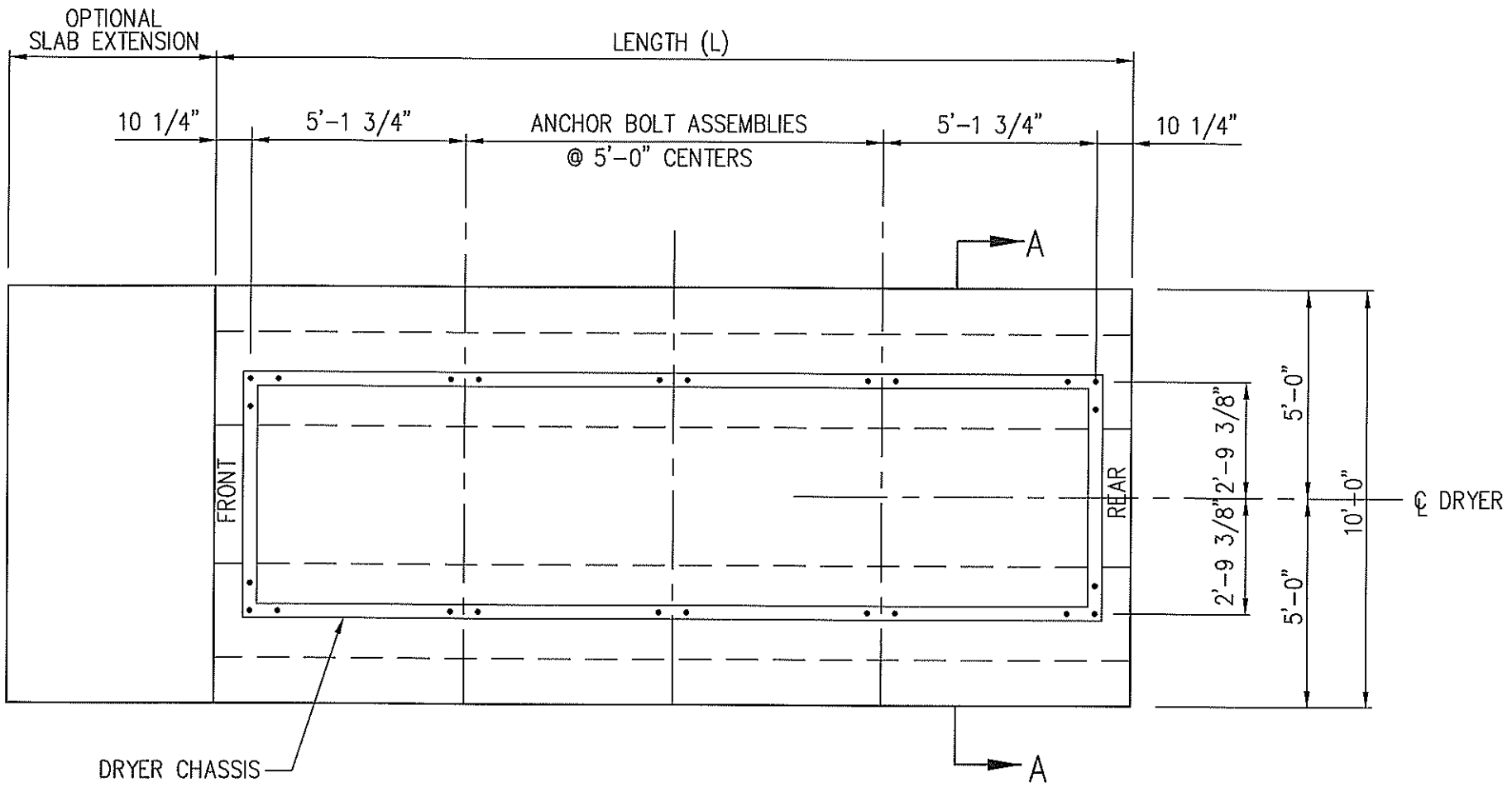
PROJECT NO.  
130-P167-006

DATE:  
APRIL 2007

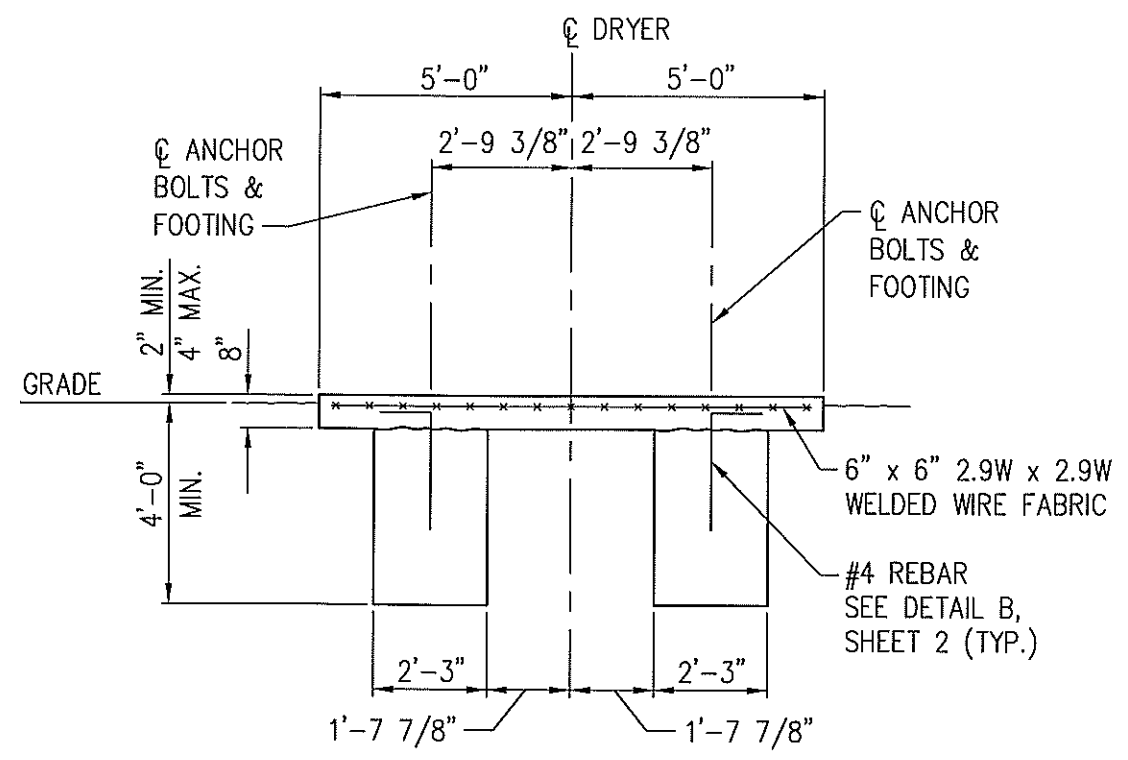
DRAWN BY:  
DDM

APPROVED BY:  
SWJ

DRAWING NO.



PLAN VIEW



SECTION A-A

- NOTES:
- "FRONT" INDICATES CONTROL PANEL END OF DRYER.
  - OPTIONAL SLAB EXTENSION IS FOR CONCRETE WORK AREA AT CONTROL PANEL END. A MINIMUM LENGTH OF 5 FEET SHOULD BE USED.

GENERAL NOTES

- THIS FOOTING IS DESIGNED IN ACCORDANCE WITH THE 2004 INTERNATIONAL BUILDING CODE. BASIC WIND SPEED IS 90 MPH, EXPOSURE C.
- FOOTINGS ARE DESIGNED FOR THE SPECIFIC MODEL NUMBER LISTED WITH A 4 FOOT MAXIMUM LEG EXTENSION.
- DRYER MUST BE LEVEL ALONG LENGTH AND WIDTH AT ALL TIMES DURING DRYING PROCESS.
- CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
- REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
- ANCHOR BOLTS SHALL BE 5/8"x 6" ALL THREAD RODS WITH HEX NUT AND WASHER MEETING THE REQUIREMENTS OF ASTM A307. DRILL 3/4"φ x 6" HOLES IN CONCRETE THROUGH DRYER BASE PLATE. USE SIMPSON EPOXY-TIE ADHESIVE OR EQUAL TO BOND ANCHOR BOLTS IN CONCRETE.
- MINIMUM SOIL BEARING CAPACITY SHALL BE 1800 PSF.
- THE 8" REINFORCED SLAB MAY BE EXTENDED BEYOND THE LIMITS SHOWN FOR ADDITIONAL SERVICE AREA.

TITLE: **FOUNDATION PLAN**  
DPX-DPXSL SERIES

**DELUX MFG. CO.**  
AIR BASE ROAD  
KEARNEY, NEBRASKA



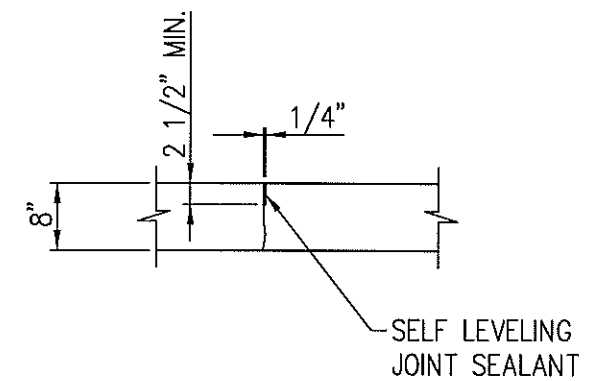
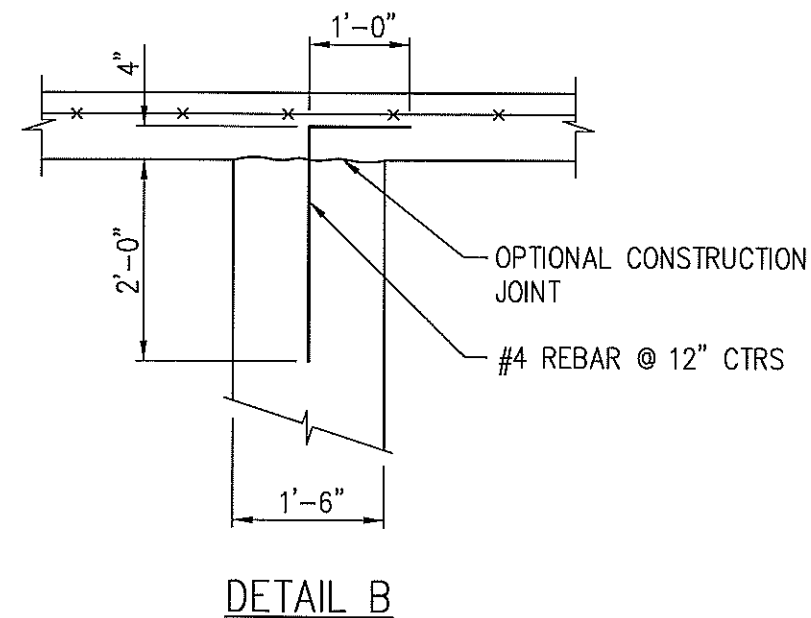
DELUX DRAWING NO.  
900-006321

SHEET 1 OF 2

APR 17, 2007 1:55:48 C:\Project\130\130-P167-006\DPX-DPXSL-01.dwg

MODEL NO.	FOUNDATION LENGTH (L)	CONCRETE * (CY)	#4 x 3'-0" BENT REBAR	6" x 6" - 2.9W x 2.9W WELDED WIRE FABRIC	5/8"Ø ANCHOR BOLTS
DPX 4525	12'-0"	10.0	24	9'-6" x 11'-6"	16
DPXSL 5030					
DPX 7040	17'-0"	14.1	34	9'-6" x 11'-6"	20
DPXSL 8050					
DPX 9050	22'-0"	18.3	44	9'-6" x 21'-6"	24
DPXSL 10060					
DPXSL 12560	27'-0"	22.4	54	9'-6" x 26'-6"	28
DPX 13575	32'-0"	26.6	64	9'-6" x 31'-6"	32
DPXSL 15090					
DPX 180100	42'-0"	34.9	84	9'-6" x 41'-6"	40
DPXSL 200120					

\* CONCRETE QUANTITY SHOWN IN THIS TABLE IS BASED ON NEAT FOOTING DIMENSIONS AND IS PROVIDED FOR INFORMATION ONLY. ACTUAL QUANTITY REQUIRED MAY VARY.



PROVIDE TRANSVERSE CONTROL JOINTS AT 12' MINIMUM SPACING.

ECN	DATE	CHANGE	AUTH

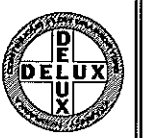


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SCALE:  
1/4" = 1'-0"  
PROJECT NO.  
130-P167-006  
DATE:  
APRIL, 2007  
DRAWN BY:  
DDM  
APPROVED BY:  
SVJ  
DRAWING NO.

DELUX MFG. CO. AIR BASE ROAD KEARNEY, NEBRASKA  
TITLE: FOUNDATION PLAN  
DPX-DPXSL SERIES

DELUX MFG. CO. AIR BASE ROAD KEARNEY, NEBRASKA



DELUX DRAWING NO. 900-006321  
SHEET 2 OF 2

ECN	DATE	CHANGE	AUTH



MILLER & ASSOCIATES CONSULTING ENGINEERS, P.C.

SCALE: 1/4" = 1'-0"  
 PROJECT NO. 130-P187-002  
 DATE: JANUARY, 1997  
 DRAWN BY: BKS  
 APPROVED BY: SW  
 DRAWING NO. 8806

- NOTES:
- "FRONT" INDICATES CONTROL PANEL END OF DRYER.
  - OPTIONAL SLAB EXTENSION IS FOR CONCRETE WORK AREA AT CONTROL PANEL END. A MINIMUM LENGTH OF 5 FEET SHOULD BE USED.

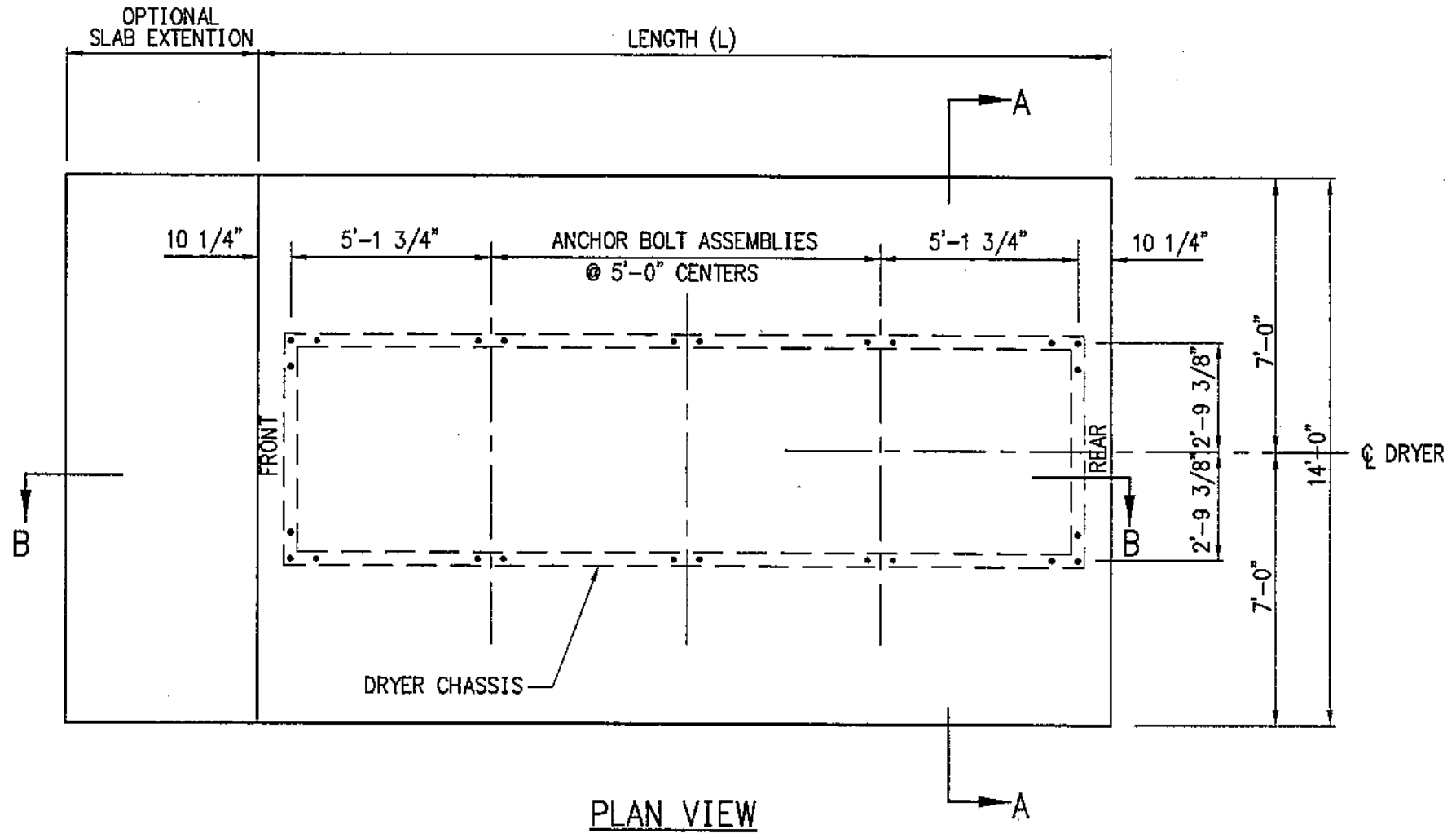


TITLE  
**FOUNDATION PLAN**  
 DPX4T SERIES

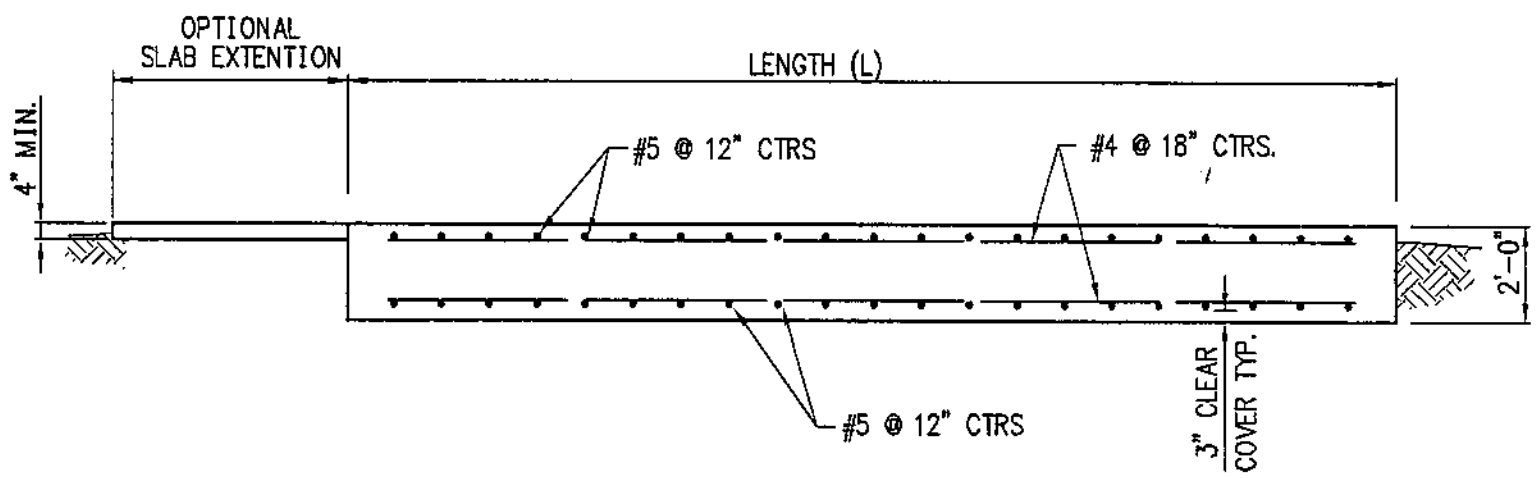
**DELUX MFG. CO.**  
 AIR BASE ROAD  
 KEARNEY, NEBRASKA



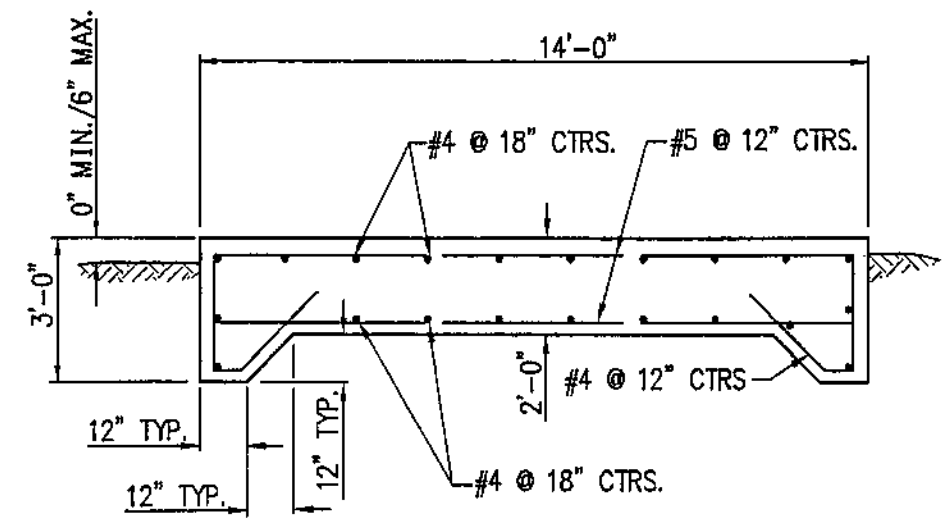
DELUX DRAWING NO. 900-006322  
 SHEET 1 OF 2



PLAN VIEW




SECTION B-B



SECTION A-A

MODEL NO.	FOOTING LENGTH (L)	CONCRETE C.Y.	REINF. STEEL	ANCHOR BOLT ASSEMBLIES	
				CORNER	SIDE
DPX4T 5630	12'	13.8	26-#5x 13'-6" 22-#4x 11'-6" 26-#4x 6'-0" BENT	4	2
DPX4T 8460	17'	19.5	36-#5x 13'-6" 22-#4x 16'-6" 36-#4x 6'-0" BENT	4	4
DPX4T 11260	22'	25.3	46-#5x 13'-6" 22-#4x 21'-6" 46-#4x 6'-0" BENT	4	6
DPX4T 140100	27'	31.0	56-#5x 13'-6" 22-#4x 26'-6" 56-#4x 6'-0" BENT	4	8
DPX4T 16890	32'	37.4	66-#5x 13'-6" 22-#4x 31'-6" 66-#4x 6'-0" BENT	4	10
DPX4T 224120	42'	48.2	86-#5x 13'-6" 22-#4x 41'-6" 86-#4x 6'-0" BENT	4	14

ECN	DATE	CHANGE	AUTH
	9/30/98	REVISE MODEL No. w/ DPX4T	



MILLER & ASSOCIATES  
CONSULTING ENGINEERS,  
P.C.

SCALE:

PROJECT NO.  
130-P167-002

DATE:  
JANUARY, 1997

DRAWN BY:  
BKS

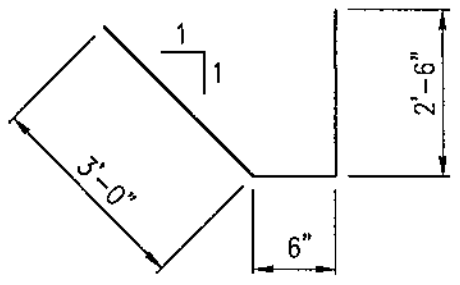
APPROVED BY:  
SVJ

DRAWING NO.  
8807

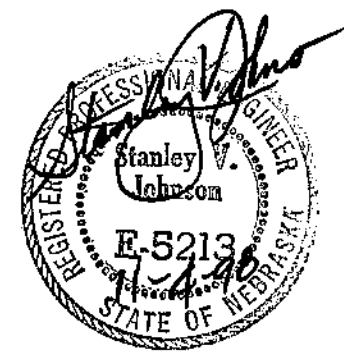
**GENERAL NOTES**

1. THIS FOOTING IS DESIGNED IN ACCORDANCE WITH THE 1994 UNIFORM BUILDING CODE. BASIC WIND SPEED IS 80 MPH, EXPOSURE C.
2. FOOTINGS ARE DESIGNED FOR THE SPECIFIC MODEL NUMBER LISTED WITH A 4 FOOT MAXIMUM LEG EXTENSION.
3. ANCHORS SHALL BE 3-3/4"  $\phi$  ANCHOR BOLTS FOR EACH CORNER LEG EXTENSION AND 2-3/4"  $\phi$  ANCHOR BOLT FOR EACH SIDE LEG EXTENSION. PROVIDE 2" x 2" x 1/4" PLATE WASHER FOR EACH ANCHOR BOLT.
4. DRYER MUST BE LEVEL ALONG LENGTH AND WIDTH AT ALL TIMES DURING DRYING PROCESS.
5. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
6. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
7. MINIMUM SOIL BEARING CAPACITY SHALL BE 1300 PSF.

NOTES:  
QUANTITY OF CONCRETE SHOWN IN THIS TABLE IS BASED ON THE NEAT FOOTING DIMENSIONS AND IS PROVIDED FOR INFORMATION ONLY. ACTUAL QUANTITY REQUIRED MAY VARY BASED ON EXCAVATION DIMENSIONS, OPTIONAL SLAB EXTENSION AND YIELD OF CONCRETE SUPPLIED.



**BENDING DIAGRAM  
FOR #4 REBAR**



**FOUNDATION PLAN**  
**DPX4T SERIES**

**DELUX MFG. CO.**  
 AIR BASE ROAD  
 KEARNEY, NEBRASKA



DELUX DRAWING NO.  
900-006322  
SHEET 2 OF 2

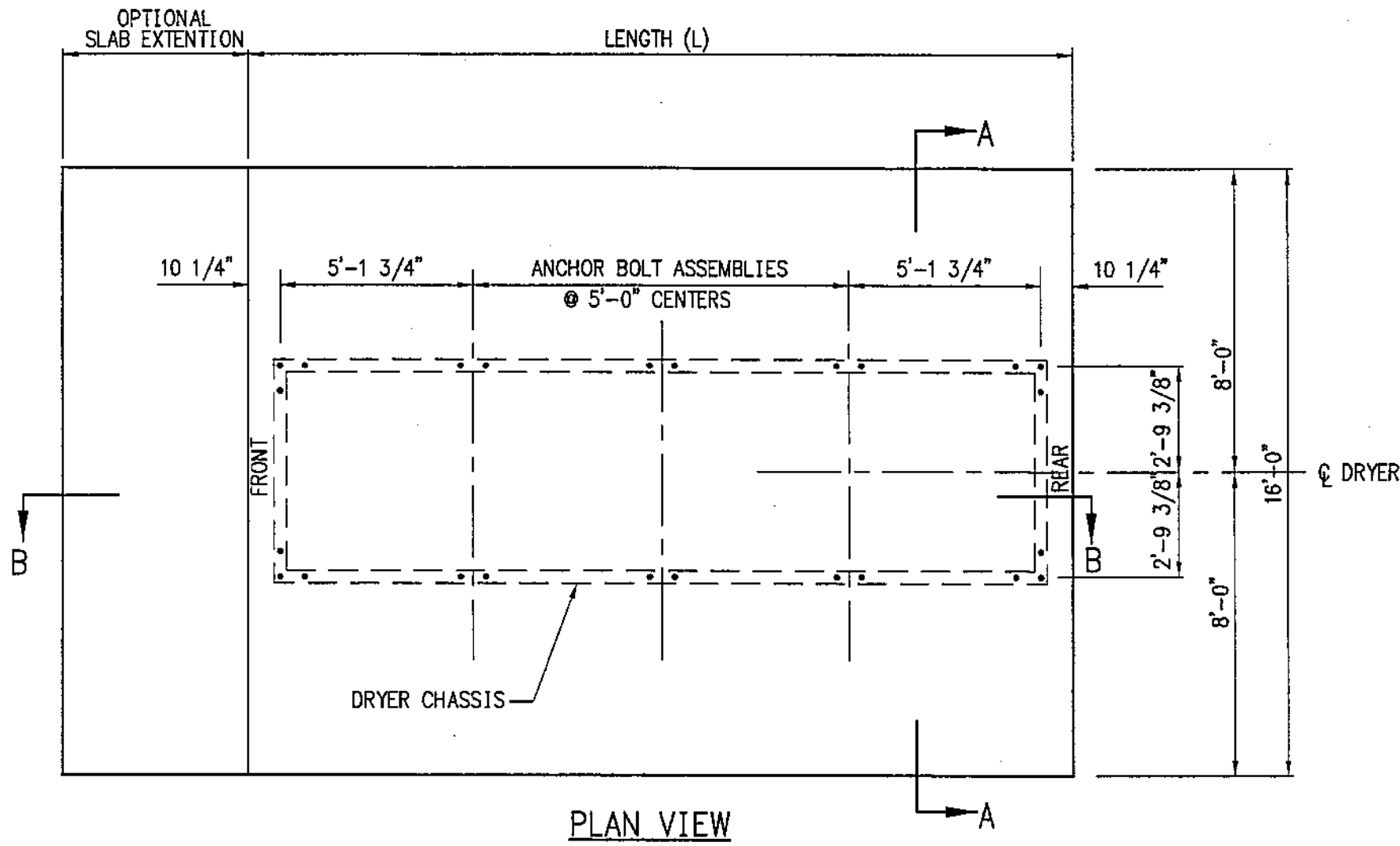
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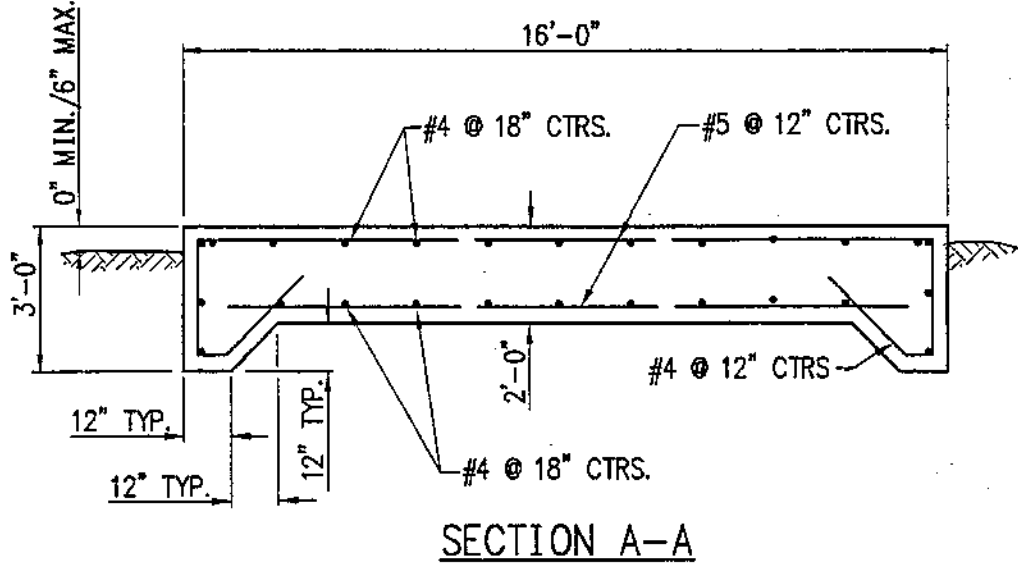
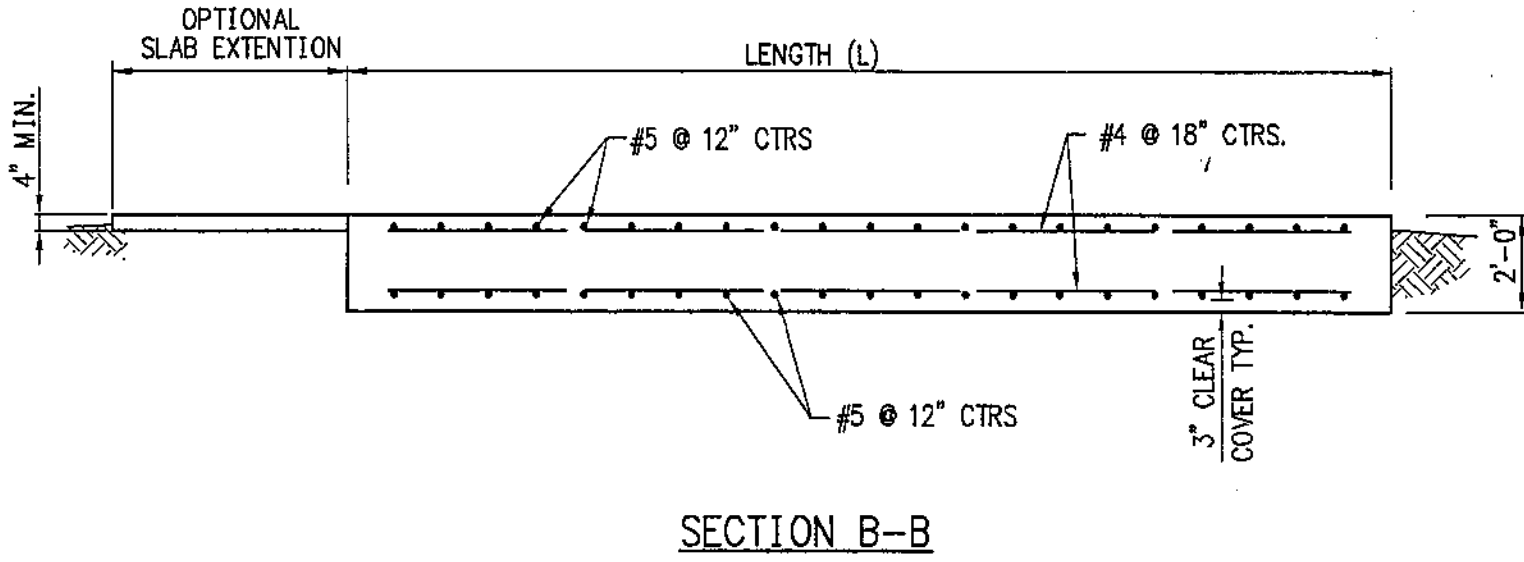
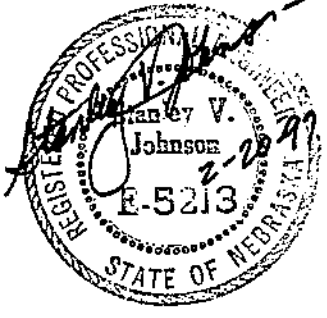


MILLER &  
ASSOCIATES  
CONSULTING  
ENGINEERS,  
P.C.

SCALE:  
1/4" = 1'-0"  
PROJECT NO.  
130-P167-002  
DATE:  
JANUARY, 1997  
DRAWN BY:  
BKS  
APPROVED BY:  
SHJ  
DRAWING NO.  
6810



- NOTES:
1. "FRONT" INDICATES CONTROL PANEL END OF DRYER.
  2. OPTIONAL SLAB EXTENSION IS FOR CONCRETE WORK AREA AT CONTROL PANEL END. A MINIMUM LENGTH OF 5 FEET SHOULD BE USED.



TITLE  
**FOUNDATION PLAN**  
DPXST SERIES

**DELUX MFG. CO.**  
AIR BASE ROAD  
KEARNEY, NEBRASKA




DELUX DRAWING NO.  
900-006323  
SHEET 1 OF 2

10.11.1997 10:54:57 C:\PROJECTS\130P167\130-5111

MODEL NO.	FOOTING LENGTH (L)	CONCRETE C.Y.	REINF. STEEL	ANCHOR BOLT ASSEMBLIES	
				CORNER	SIDE
DPX8T 6440	12'	15.6	26-#5x 15'-6" 24-#4x 11'-6" 26-#4x 6'-0" BENT	4	2
DPX8T 12880	22'	28.5	46-#5x 15'-6" 24-#4x 21'-6" 46-#4x 6'-0" BENT	4	6
DPX8T 160120	27'	35.1	56-#5x 15'-6" 24-#4x 31'-6" 56-#4x 6'-0" BENT	4	8
DPX8T 192120	32'	41.5	66-#5x 15'-6" 24-#4x 31'-6" 66-#4x 6'-0" BENT	4	10
DPX8T 256160	42'	54.4	86-#5x 15'-6" 24-#4x 41'-6" 86-#4x 6'-0" BENT	4	14

ECN	DATE	CHANGE	AUTH
	9/30/98	REVISED MODEL No.s w/ DPX8T ADDED MODEL No. DPX8T 160120	



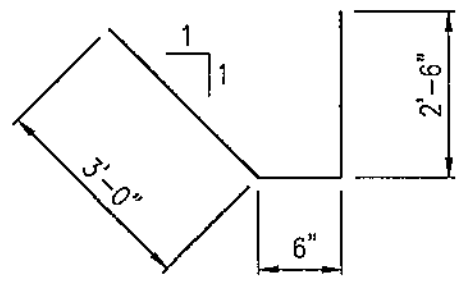
MILLER & ASSOCIATES CONSULTING ENGINEERS, P.C.

SCALE: NONE  
PROJECT NO. 130-P167-002  
DATE: JANUARY, 1997  
DRAWN BY: BKS  
APPROVED BY: SVJ  
DRAWING NO. 8808

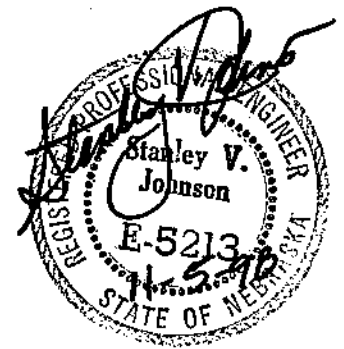
**GENERAL NOTES**

1. THIS FOOTING IS DESIGNED IN ACCORDANCE WITH THE 1994 UNIFORM BUILDING CODE. BASIC WIND SPEED IS 80 MPH, EXPOSURE C.
2. FOOTINGS ARE DESIGNED FOR THE SPECIFIC MODEL NUMBER LISTED WITH A 4 FOOT MAXIMUM LEG EXTENSION.
3. ANCHORS SHALL BE 3-3/4"  $\phi$  ANCHOR BOLTS FOR EACH CORNER LEG EXTENSION AND 2-3/4"  $\phi$  ANCHOR BOLT FOR EACH SIDE LEG EXTENSION. PROVIDE 2" x 2" x 1/4" PLATE WASHERS FOR EACH ANCHOR BOLT.
4. DRYER MUST BE LEVEL ALONG LENGTH AND WIDTH AT ALL TIMES DURING DRYING PROCESS.
5. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
6. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
7. MINIMUM SOIL BEARING CAPACITY SHALL BE 1250 PSF.

NOTES:  
QUANTITY OF CONCRETE SHOWN IN THIS TABLE IS BASED ON THE NEAT FOOTING DIMENSIONS AND IS PROVIDED FOR INFORMATION ONLY. ACTUAL QUANTITY REQUIRED MAY VARY BASED ON EXCAVATION DIMENSIONS, OPTIONAL SLAB EXTENSION AND YIELD OF CONCRETE SUPPLIED.



**BENDING DIAGRAM FOR #4 REBAR**



**FOUNDATION PLAN**  
**DPX8T SERIES**  
**DELUX MFG. CO.**  
 AIR BASE ROAD  
 KEARNEY, NEBRASKA







MILLER & ASSOCIATES  
CONSULTING ENGINEERS,  
P.C.

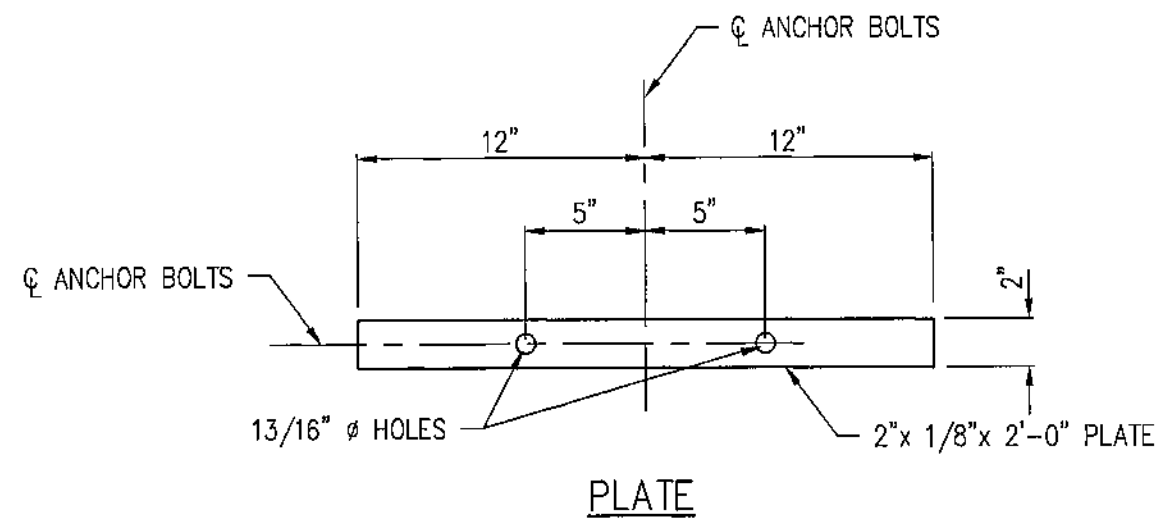
SCALE:  
PROJECT NO.  
130-P187-002  
DATE:  
JANUARY, 1987  
DRAWN BY:  
BKS  
APPROVED BY:  
SVJ  
DRAWING NO.  
8803H

**ANCHORS**  
DPX4T AND DPX8T SERIES

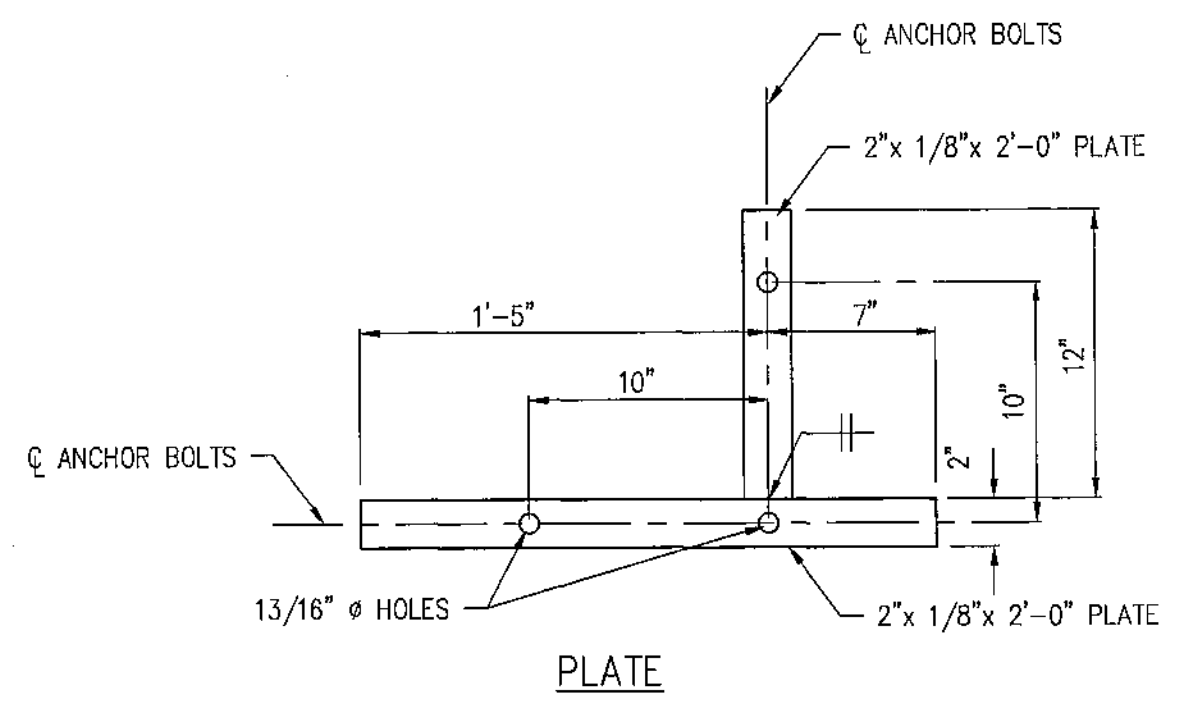
TITLE:  
**DELUX MFG. CO.**  
AIR BASE ROAD  
KEARNEY, NEBRASKA



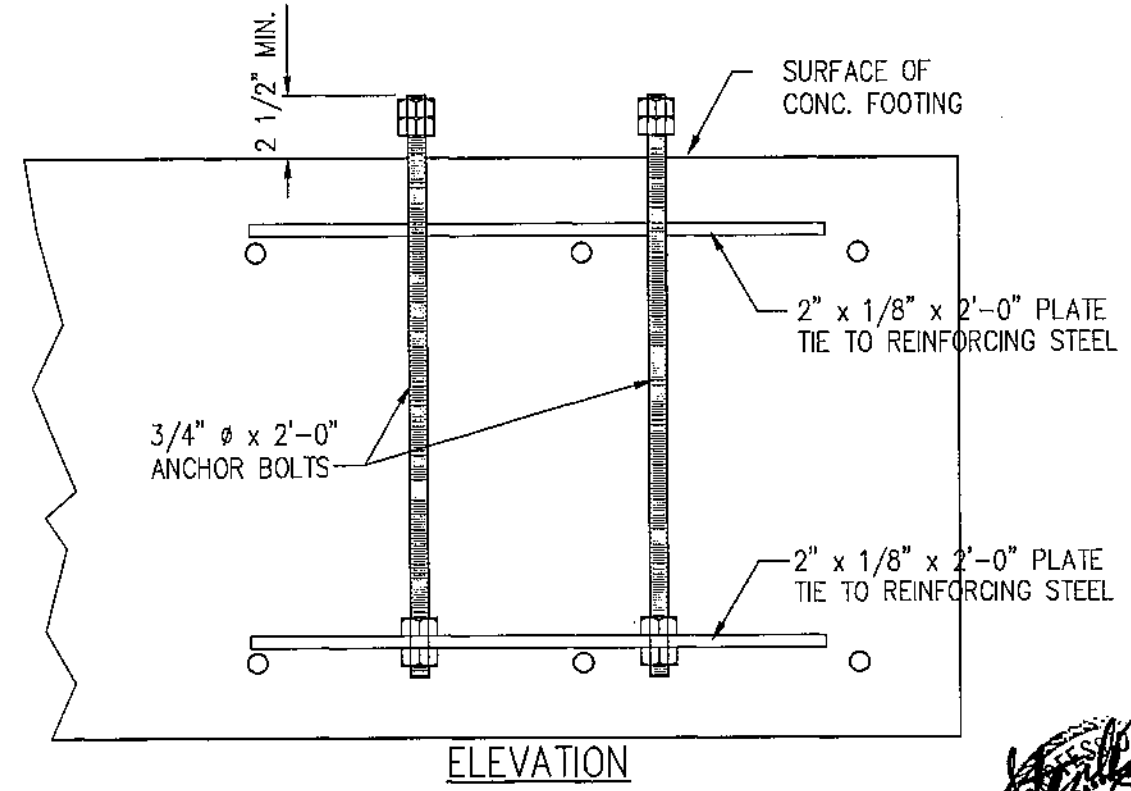
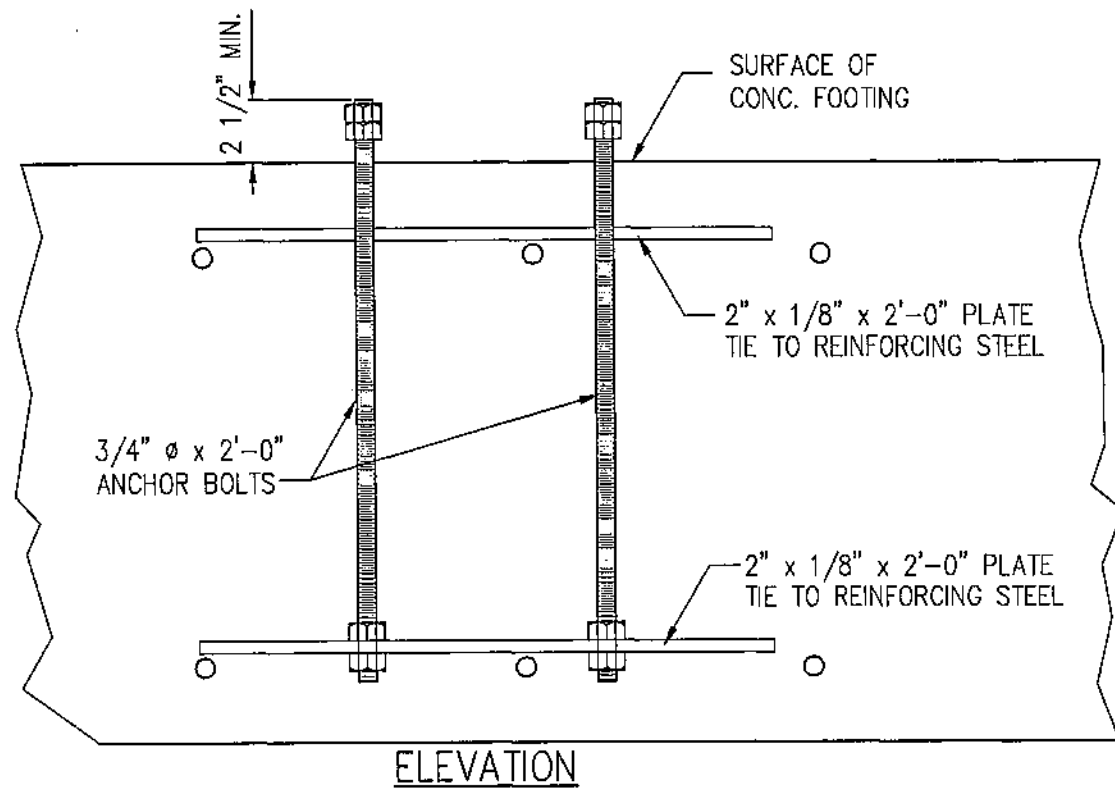
DELUX DRAWING NO.  
900-006327  
SHEET 1 OF 1



SIDE ANCHOR BOLT ASSEMBLY



CORNER ANCHOR BOLT ASSEMBLY



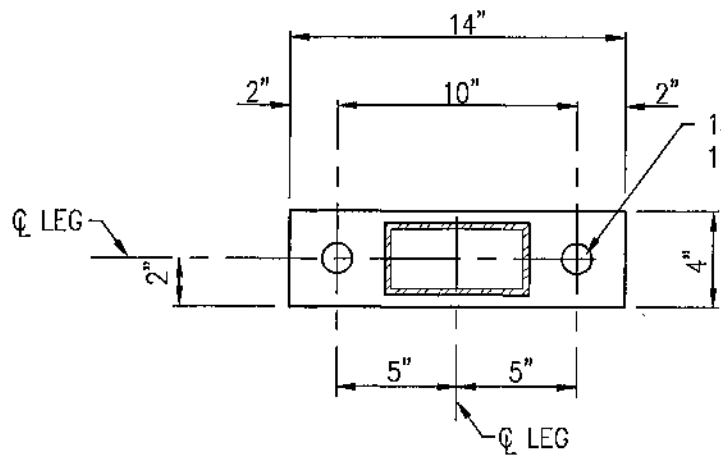
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ECN	DATE	CHANGE	AUTH

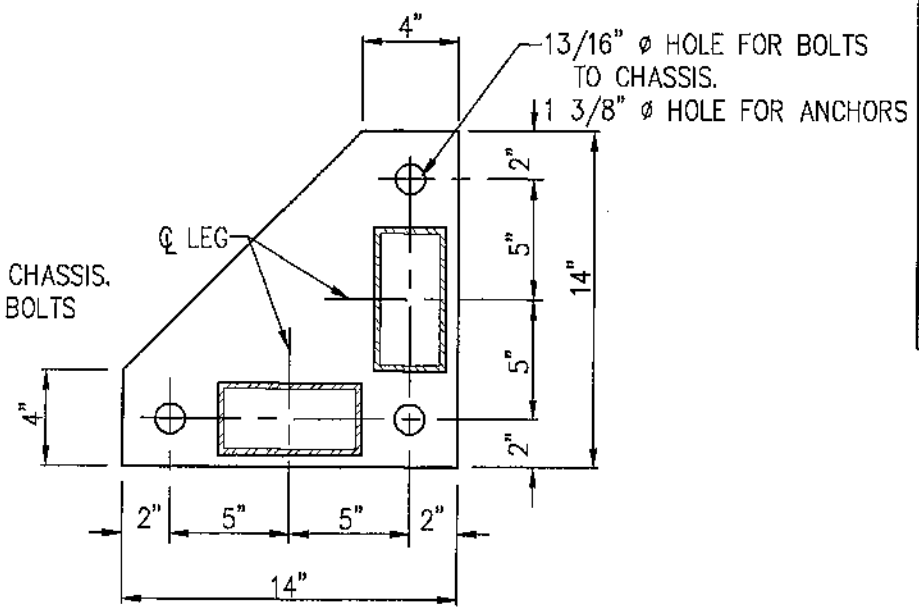


MILLER & ASSOCIATES  
CONSULTING ENGINEERS,  
P.C.

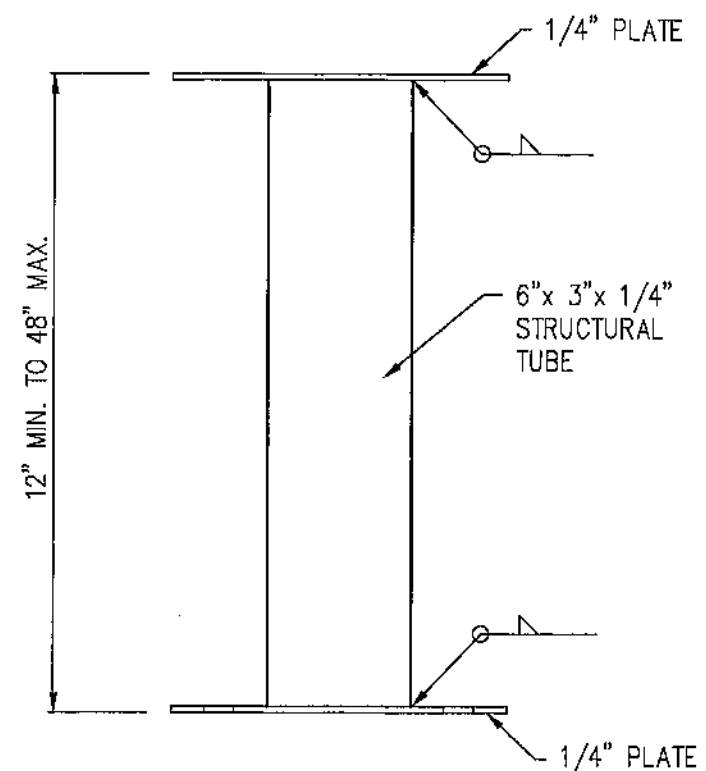
SCALE:  
1 1/2" = 1'-0"  
PROJECT NO.  
130-1167-002  
DATE:  
JANUARY, 1987  
DRAWN BY:  
BKS  
APPROVED BY:  
SWJ  
DRAWING NO.  
6803C



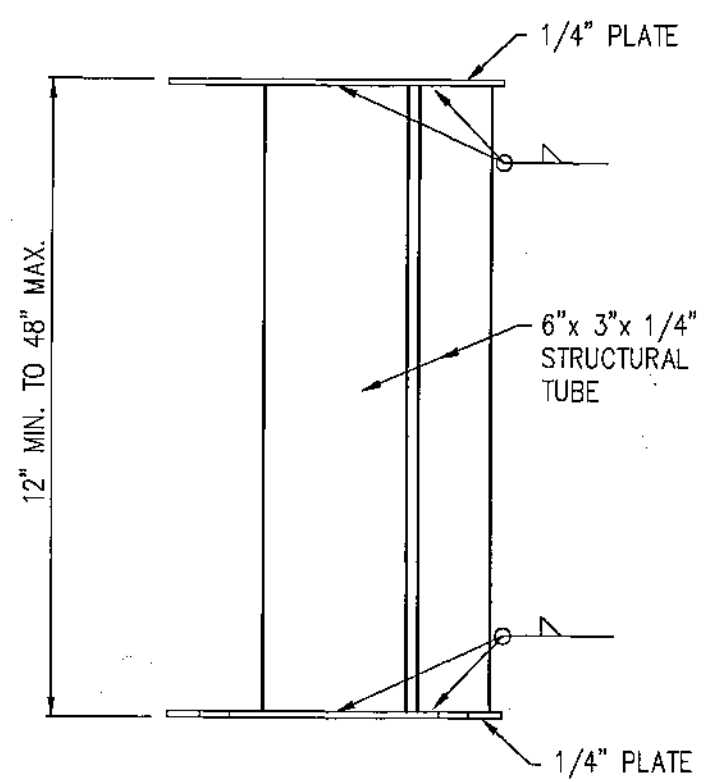
PLAN



PLAN



ELEVATION OF  
SIDE LEG EXTENSION



ELEVATION OF  
CORNER LEG EXTENSION

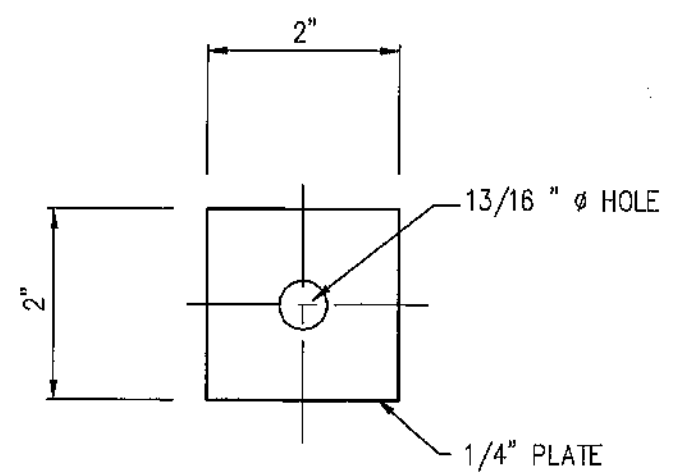
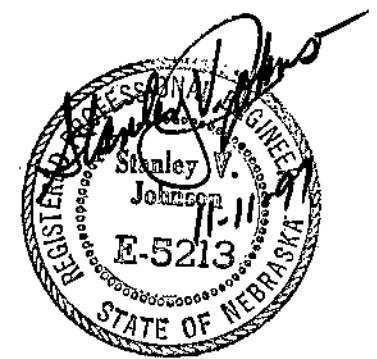


PLATE WASHER  
NTS



LEG EXTENSION  
DPX4T AND DPX8T SERIES

DELUX MFG. CO.  
AIR BASE ROAD  
KEARNEY, NEBRASKA



DELUX DRAWING NO.  
900-006328  
SHEET 1 OF 1

ECN	DATE	CHANGE	AUTH

**MA**  
**MILLER & ASSOCIATES**  
**CONSULTING ENGINEERS, P.C.**

SCALE:  
1/4" = 1'-0"

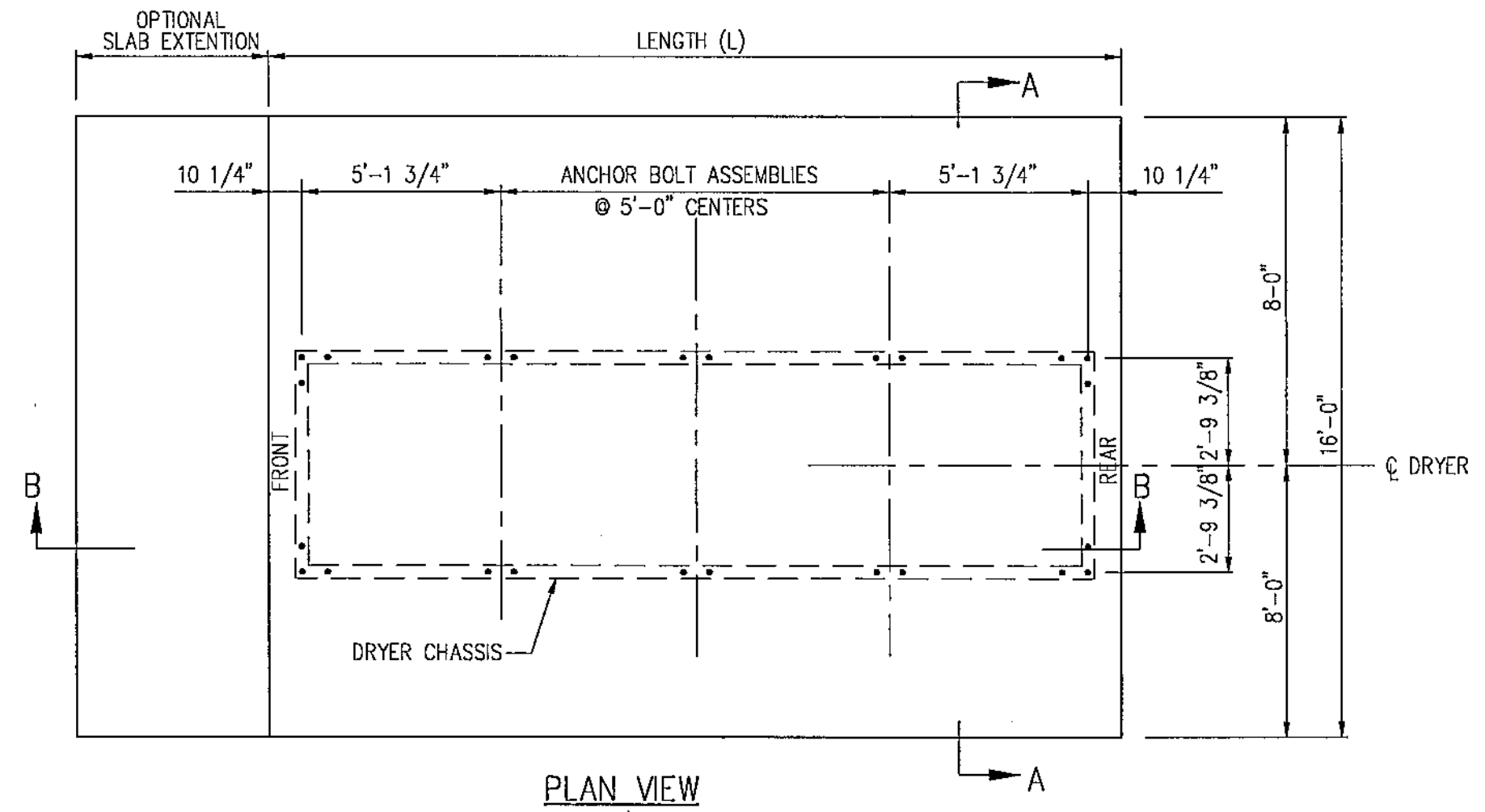
PROJECT NO.  
130-P167-003

DATE:  
FEBRUARY 2000

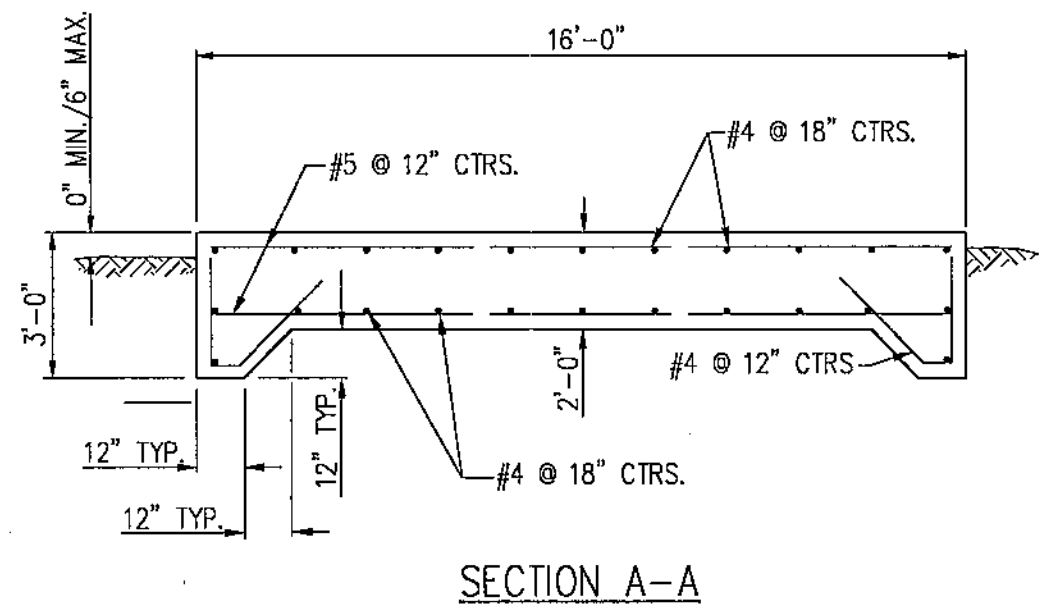
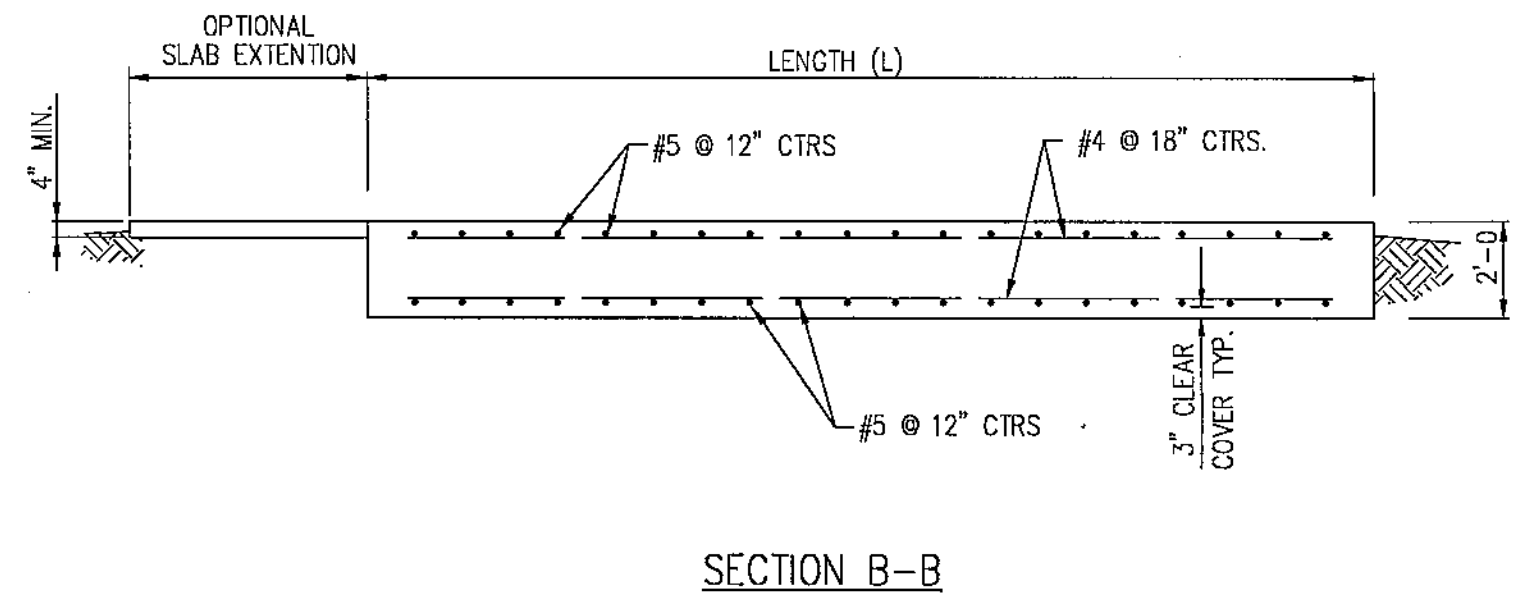
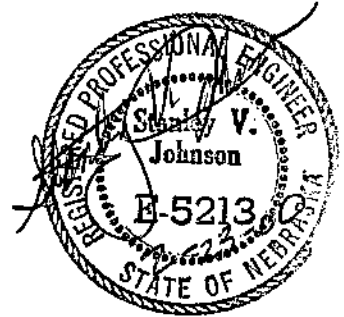
DRAWN BY:  
CLB

APPROVED BY:  
SVJ

DRAWING NO.  
9185



- NOTES:
- "FRONT" INDICATES CONTROL PANEL END OF DRYER.
  - OPTIONAL SLAB EXTENSION IS FOR CONCRETE WORK AREA AT CONTROL PANEL END. A MINIMUM LENGTH OF 5 FEET SHOULD BE USED.



DELUX MFG. CO.  
AIR BASE ROAD  
KEARNEY, NEBRASKA

DPX12T SERIES

DELUX



DELUX DRAWING NO.  
900-007220

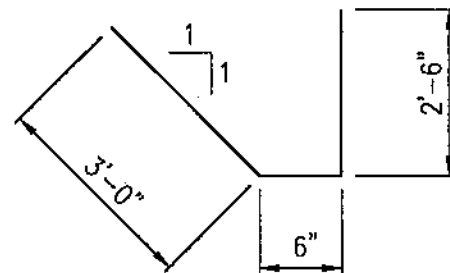
SHEET 1 OF 2

FIG. 07, 2000 1:10:00 0:\proj\delux\130-P167-003\130-P167-003.dwg

MODEL NO.	FOOTING LENGTH (L)	CONCRETE C.Y.	REINF. STEEL	ANCHOR BOLT ASSEMBLIES	
				CORNER	SIDE
DPX12T 7250	12'	15.6	26-#5x 15'-6" 24-#4x 11'-6" 26-#4x 6'-0" BENT	4	2
DPX12T 10860	17'	22.0	36-#5x 15'-6" 24-#4x 16'-6" 36-#4x 6'-0" BENT	4	4
DPX12T 144100	22'	28.5	46-#5x 15'-6" 24-#4x 21'-6" 46-#4x 6'-0" BENT	4	6
DPX12T 175120	27'	35.1	56-#5x 15'-6" 24-#4x 26'-6" 56-#4x 6'-0" BENT	4	8
DPX12T 216150	32'	41.5	66-#5x 15'-6" 24-#4x 31'-6" 66-#4x 6'-0" BENT	4	10
DPX12T 288200	42'	54.4	86-#5x 15'-6" 24-#4x 41'-6" 86-#4x 6'-0" BENT	4	14

**NOTES:**

QUANTITY OF CONCRETE SHOWN IN THIS TABLE IS BASED ON THE NEAT FOOTING DIMENSIONS AND IS PROVIDED FOR INFORMATION ONLY. ACTUAL QUANTITY REQUIRED MAY VARY BASED ON EXCAVATION DIMENSIONS, OPTIONAL SLAB EXTENSION AND YIELD OF CONCRETE SUPPLIED.



**BENDING DIAGRAM FOR #4 REBAR**

ECN	DATE	CHANGE	AUTH

**MA**  
MILLER & ASSOCIATES  
CONSULTING ENGINEERS, P.C.

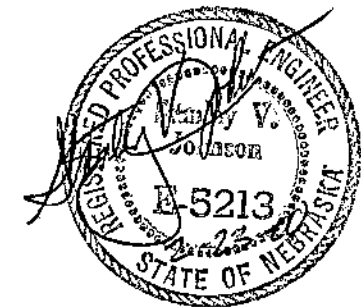
SCALE: NONE  
PROJECT NO. 130-P157-002  
DATE: JANUARY, 1997  
DRAWN BY: BKS  
APPROVED BY: SVJ  
DRAWING NO. 9184

**GENERAL NOTES**

1. THIS FOOTING IS DESIGNED IN ACCORDANCE WITH THE 1994 UNIFORM BUILDING CODE. BASIC WIND SPEED IS 80 MPH, EXPOSURE C.
2. FOOTINGS ARE DESIGNED FOR THE SPECIFIC MODEL NUMBER LISTED WITH A 4 FOOT MAXIMUM LEG EXTENSION.
3. ANCHORS SHALL BE 3-3/4" Ø ANCHOR BOLTS FOR EACH CORNER LEG EXTENSION AND 2-3/4" Ø ANCHOR BOLT FOR EACH SIDE LEG EXTENSION. PROVIDE 2" x 2" x 1/4" PLATE WASHERS FOR EACH ANCHOR BOLT.
4. DRYER MUST BE LEVEL ALONG LENGTH AND WIDTH AT ALL TIMES DURING DRYING PROCESS.
5. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
6. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
7. MINIMUM SOIL BEARING CAPACITY SHALL BE 1250 PSF.

**FOUNDATION PLAN**  
DPX12T SERIES

**DELUX MFG. CO.**  
AIR BASE ROAD  
KEARNEY, NEBRASKA



DELUX DRAWING NO. 900-007220  
SHEET 2 OF 2



**MILLER & ASSOCIATES CONSULTING ENGINEERS, P.C.**

SCALE:  
 PROJECT NO. 130-P167-002  
 DATE: JANUARY, 1997  
 DRAWN BY: EKS  
 APPROVED BY: SVJ  
 DRAWING NO. 9183

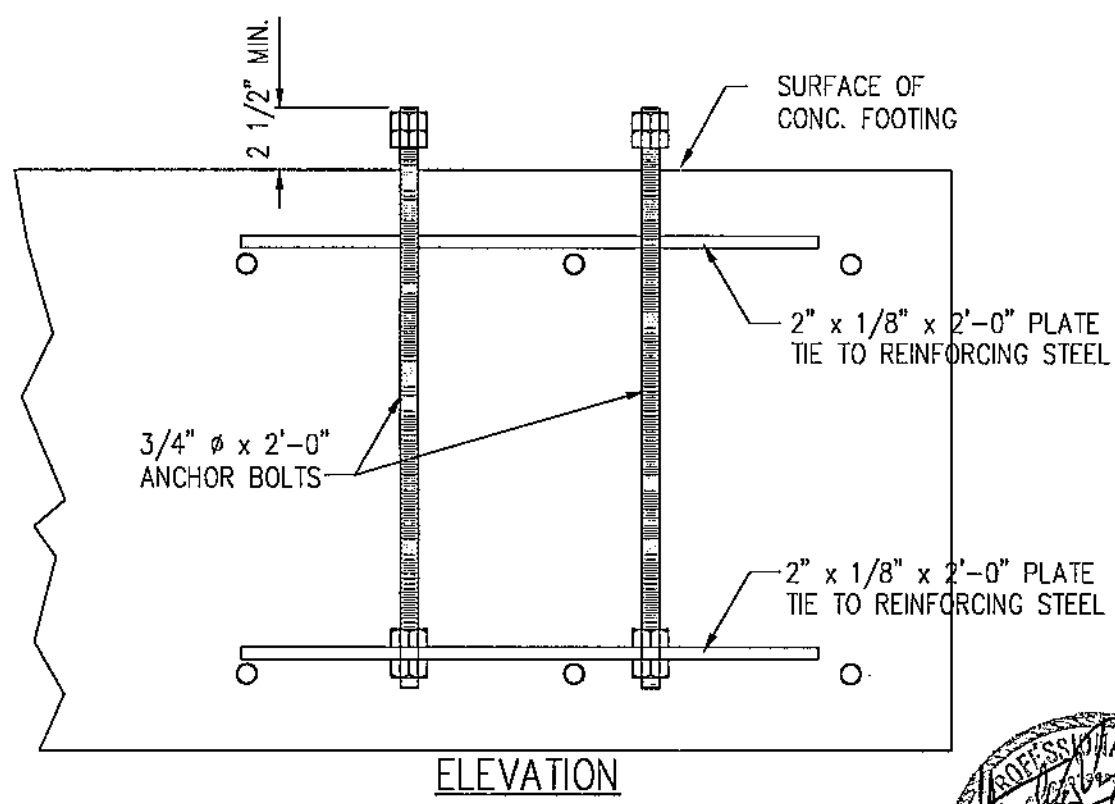
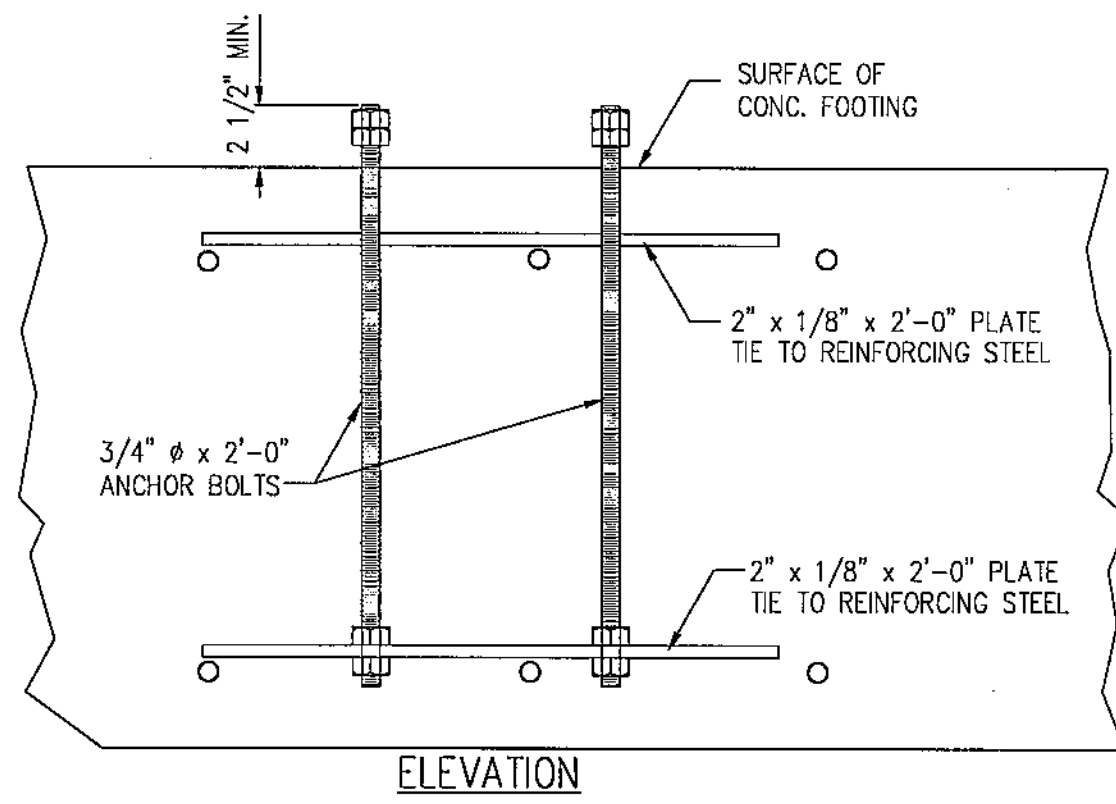
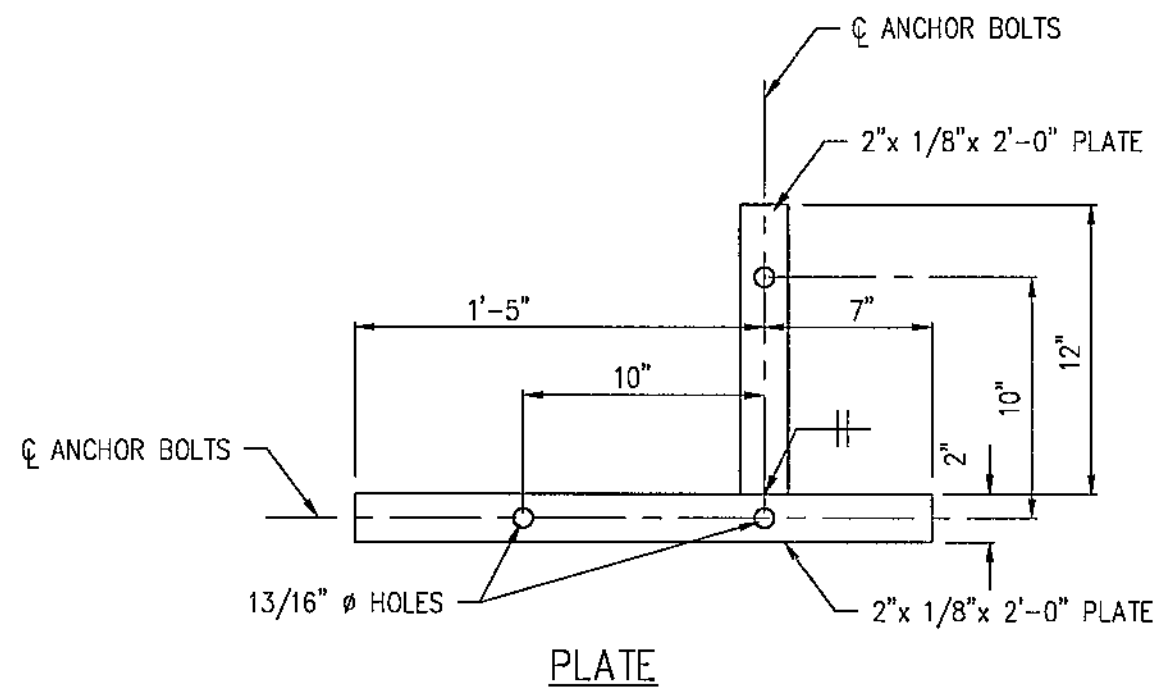
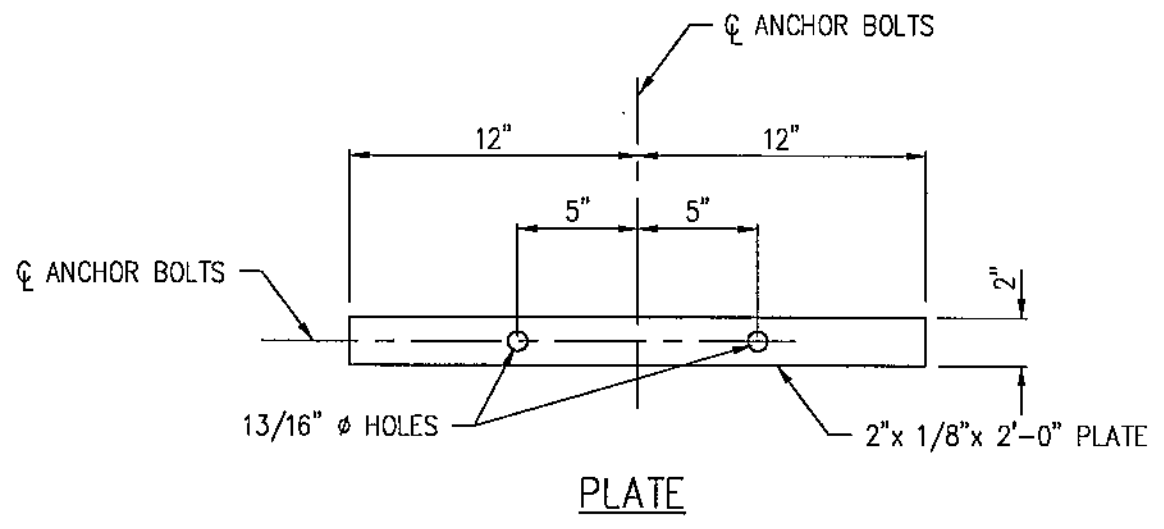
**ANCHORS**  
 DPX12T SERIES

TITLE

**DELUX MFG. CO.**  
 AIR BASE ROAD  
 KEARNEY, NEBRASKA

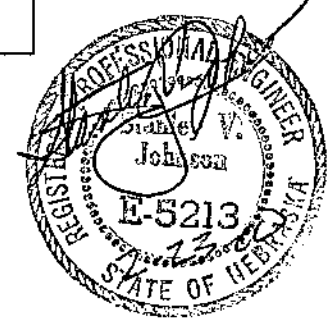


DELUX DRAWING NO. 900-007221  
 SHEET 1 OF 1



**SIDE ANCHOR BOLT ASSEMBLY**

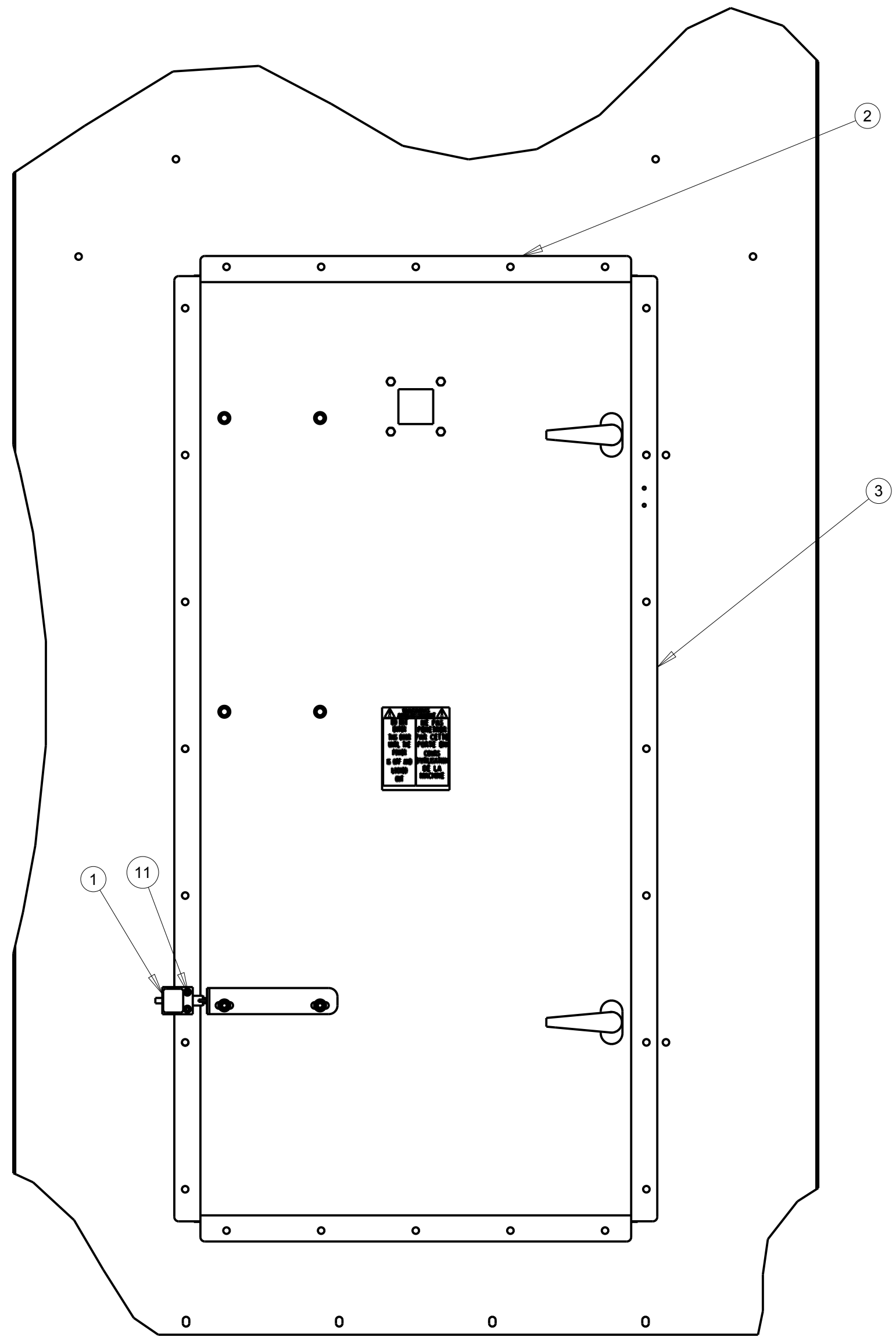
**CORNER ANCHOR BOLT ASSEMBLY**



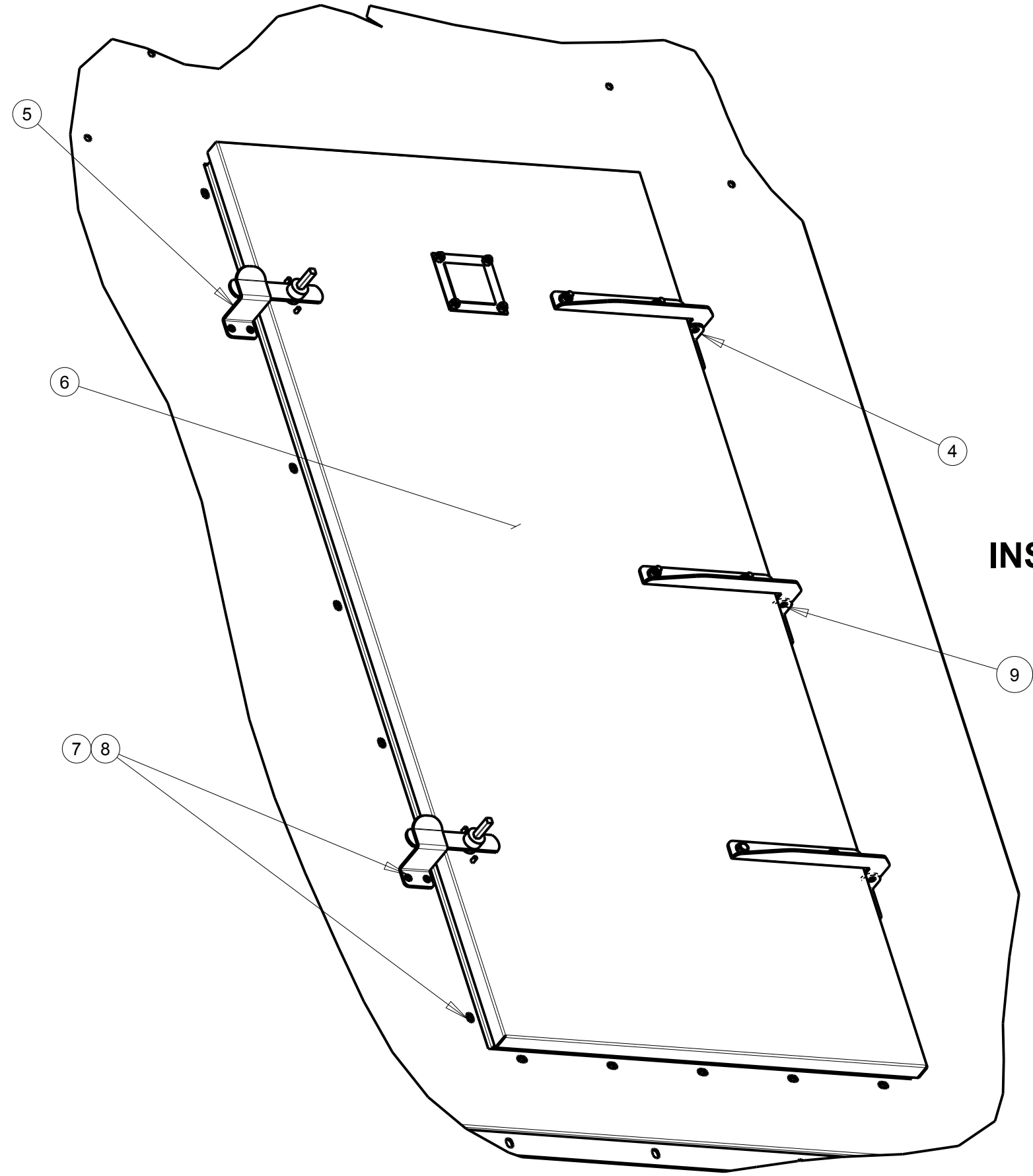
FEB 07, 2000 10:12:38 C:\Projects\130-p167-003\12-1.dwg



ITEM	PART NUMBER	QTY	DESCRIPTION
1	010-010837	1	LIMIT SWITCH - SAFETY - ACCESS DOORS
2	100-010344	2	TOP & BOTTOM-PLENUM & COOLING DOOR-GALV. FRAME
3	100-010345	2	LEFT & RIGHT-PLENUM DOOR-GALV. FRAME
4	100-010353	3	HINGE SUPPORT-PLENUM & COOLING DOOR-GALV. FRAME
5	100-010835	2	CATCH - PLENUM DOOR FRAME W/SWITCH
6	300-010839	1	SUB-ASSY - PLENUM DOOR-GALV. FRAME WITH SWITCH
7	040-005321	26	BOLT - WHIZLOCK HEX - 5/16-18UNC X 3/4
8	040-001459	26	NUT - WHIZLOCK HEX - 5/16-18UNC
9	040-001434	3	BOLT - HEX - 5/16-18UNC X 3/4
10	040-004068	3	NUT - NYLON LOCK - 5/16-18UNC
11	040-001453	2	SCREW - TCS #10-32UNF X 3/4"



**OUTSIDE OF DRYER**



**INSIDE OF DRYER**

MASS:	18249208.931	PART NO.:	900-010876
		DESCRIPTION:	ILLUSTRATION-PLENUM DOOR ASSEMBLY W/SAFETY SWITCH
		MODELED BY:	M. LANTZER
		THICKNESS:	
		MATERIAL:	
		SCALE:	0.156
		DATE:	Nov-26-14
ECO#	LET	DESCRIPTION	DATE
		USED ON:	

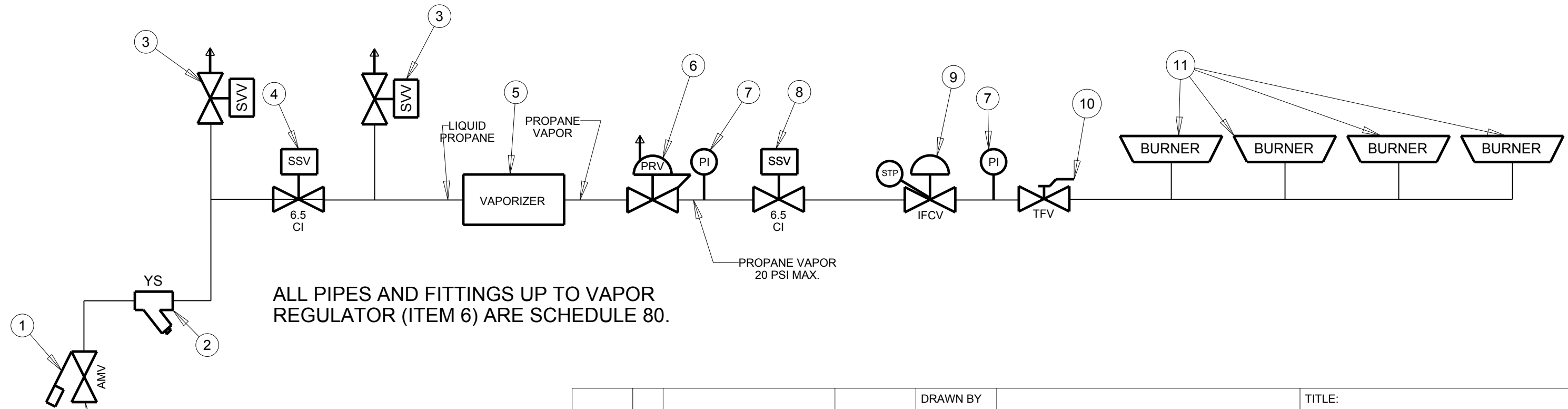
**DELUX MFG. CO.**  
KEARNEY, NE

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED





ITEM	SYMBOL	DESCRIPTION
1	AMV	APPLIANCE MANUAL SHUT-OFF VALVE
2	YS	Y-STRAINER
3	SVV	HYDROSTATIC RELIEF VALVE
4	SSV (6.5, CI)	SAFETY SHUTOFF VALVE
5	VAPORIZER	INTERNAL - INDIRECT HEAT PROPANE VAPORIZER
6	PRV	PRESSURE REGULATOR
7	PI	PRESSURE INDICATOR
8	SSV (6.5, CI)	SAFETY SHUTOFF VALVE
9	IFCV/STP	INPUT FLOW CONTROL VALVE WITH TRAVEL STOP
10	TFV	TEST FIRE VALVE
11	BURNER	BURNER - (DELUX MFG. CO.)



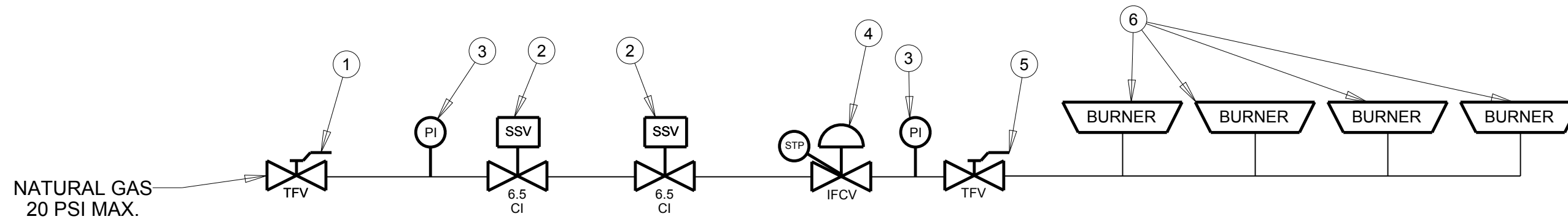
ALL PIPES AND FITTINGS UP TO VAPOR REGULATOR (ITEM 6) ARE SCHEDULE 80.

LIQUID PROPANE  
250 PSI MAX.  
MUST ALSO HAVE  
VAPOR DRAW FOR  
START-UP. SEE  
OWNERS MANUAL.

				DRAWN BY MEL	<b>DELUX MFG. CO.</b> KEARNEY, NE		TITLE:  PLUMBING SCHEMATIC PROPANE-1 THRU 4 BURNER DP THRU DPX16GT SERIES 2015+	
				DATE 03/03/15				
				CHK'D	USED ON:		DRAWING NO. 900-010902	
					NEXT ASS'Y:			
				SCALE	MATL.	SHEAR SIZE		
ECO#	LET	DESCRIPTION	DATE					

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED

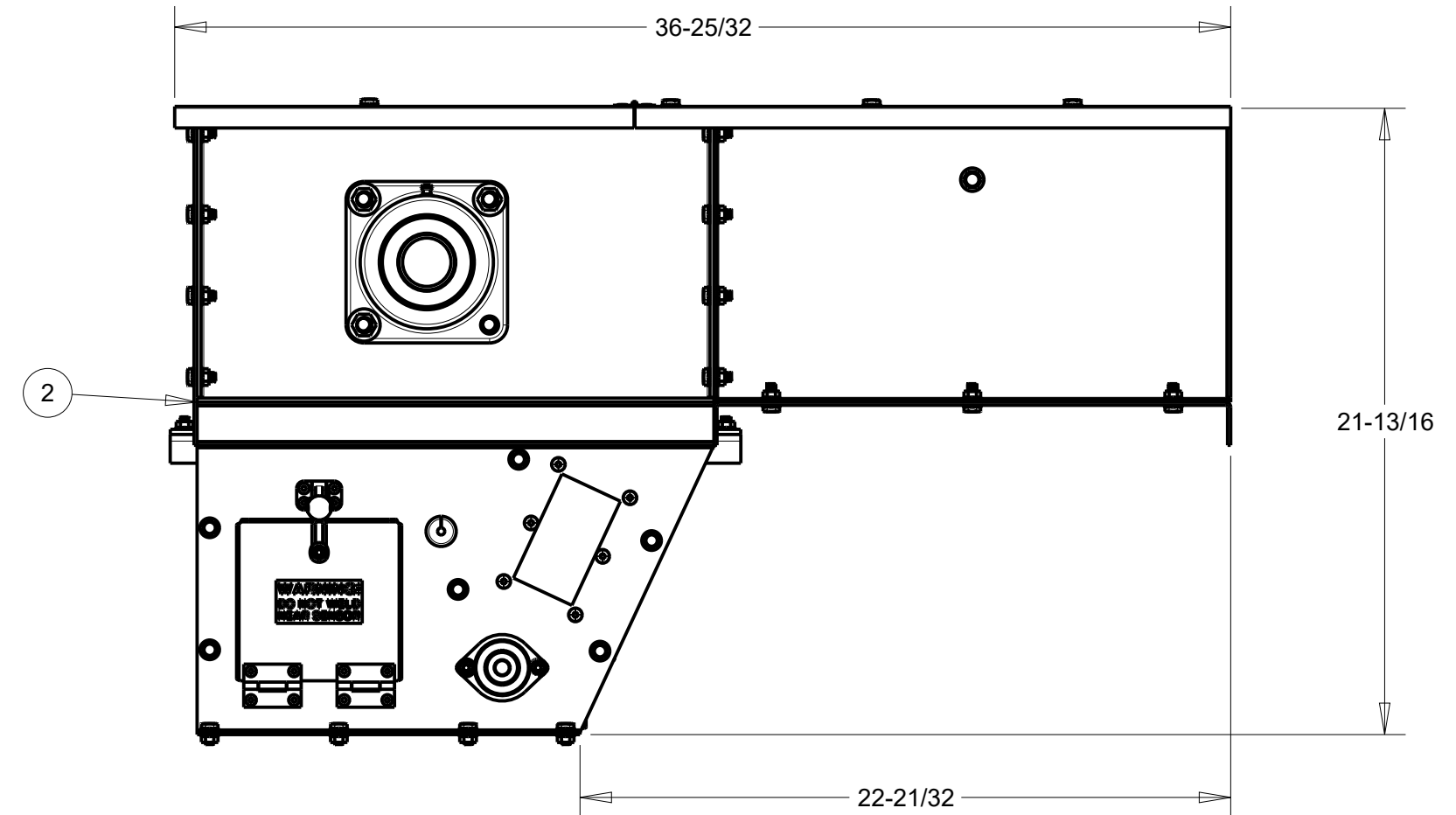
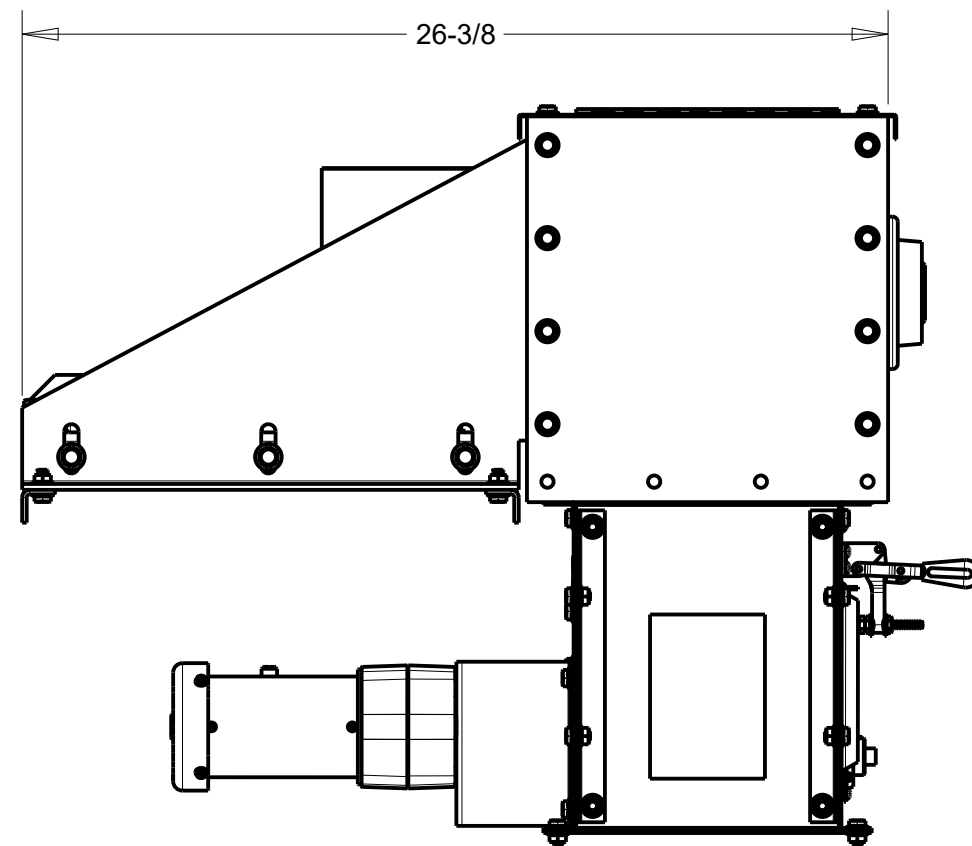
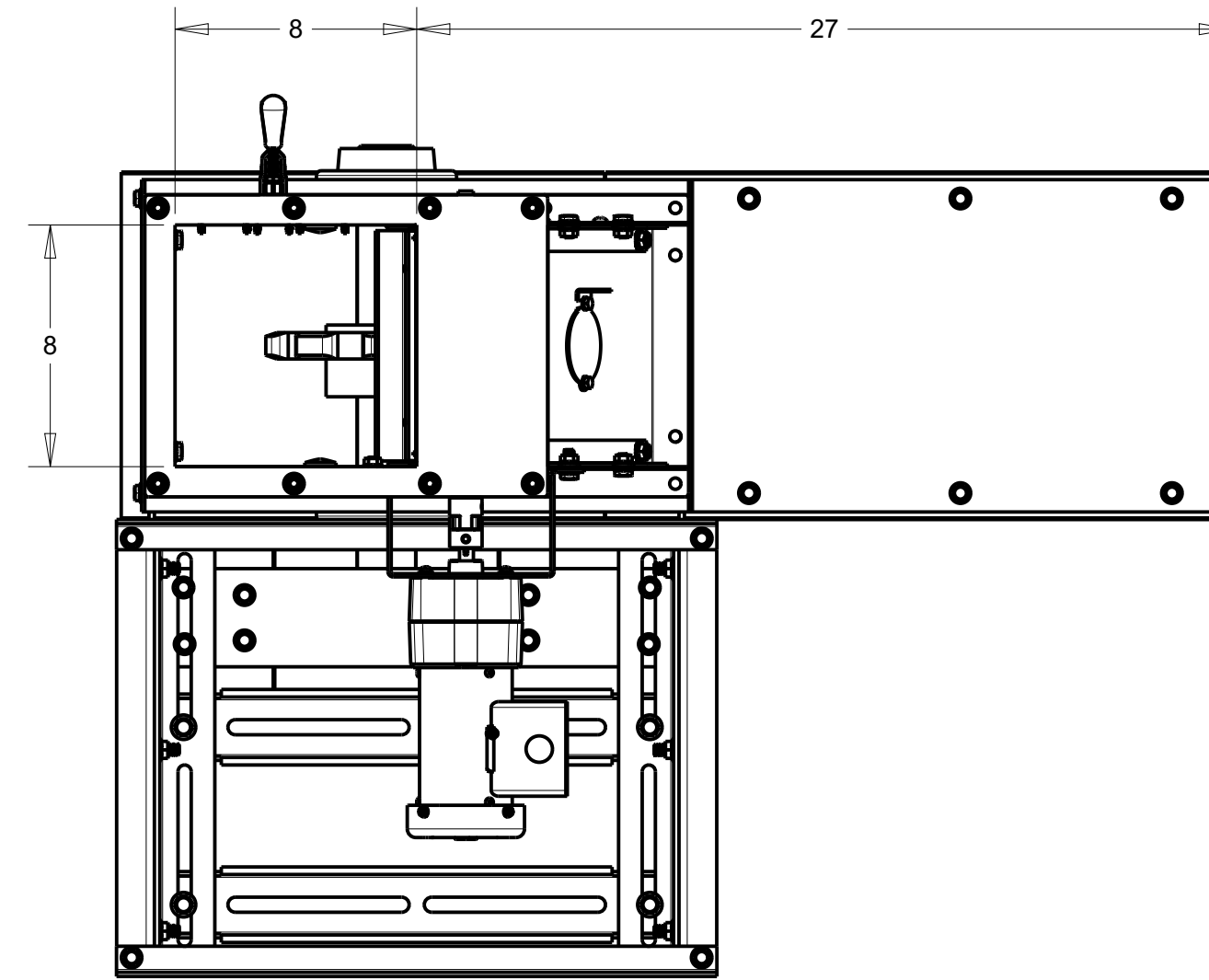
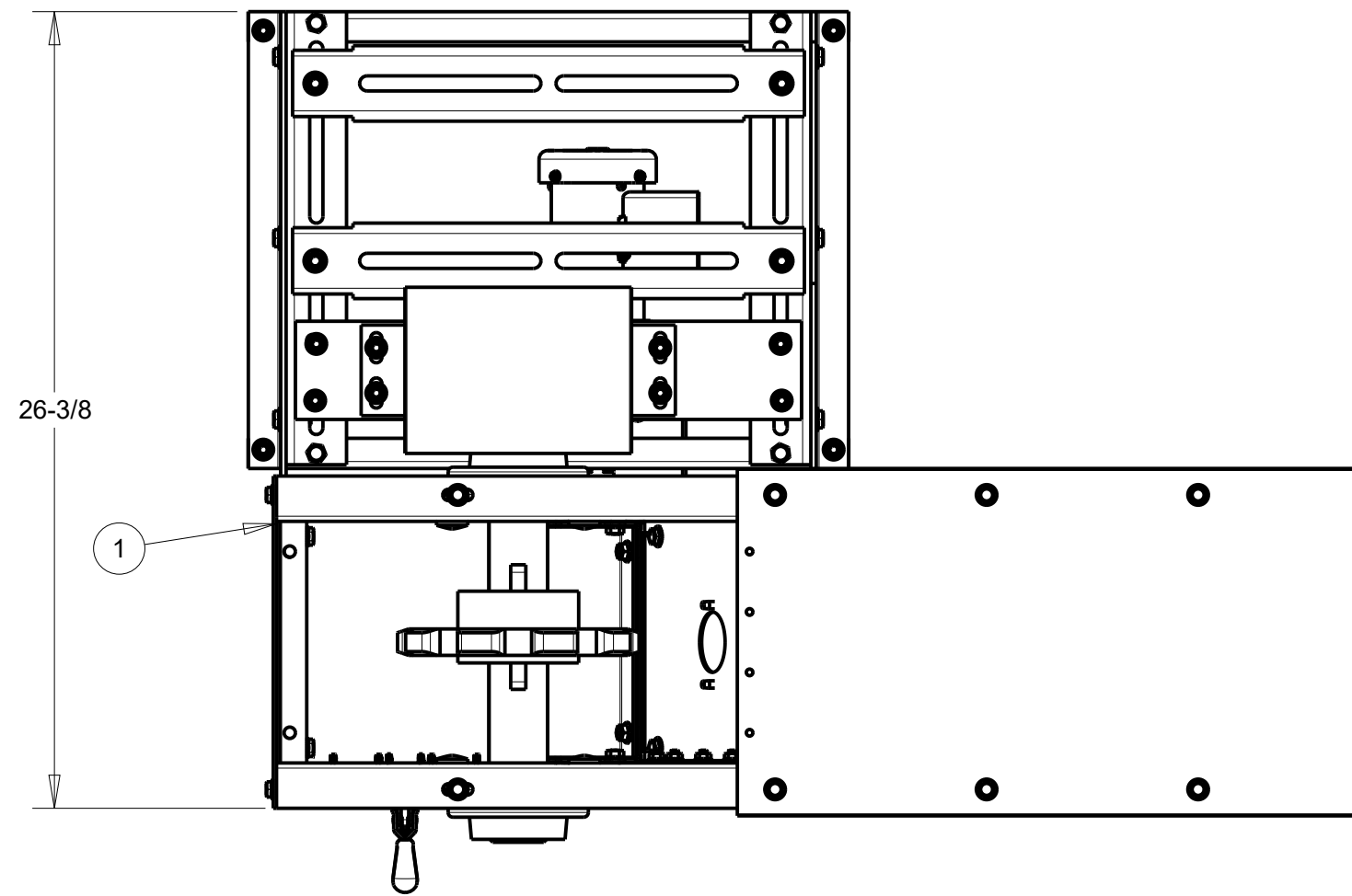
ITEM	SYMBOL	DESCRIPTION
1	AMV	APPLIANCE MANUAL SHUT-OFF VALVE
2	SSV (6.5, CI)	SAFETY SHUTOFF VALVE
3	PI	PRESSURE INDICATOR
4	IFCV/STP	INPUT FLOW CONTROL VALVE WITH TRAVEL STOP
5	TFV	TEST FIRE VALVE
6	BURNER	BURNER - (DELUX MFG. CO.)



				DRAWN BY MEL	<b>DELUX MFG. CO.</b> KEARNEY, NE		TITLE:  PLUMBING SCHEMATIC NAT. GAS-1 THRU 4 BURNER DP THRU DPX16GT SERIES 2015+
				DATE 03/03/15			
				CHK'D	USED ON:		
					NEXT ASS'Y:		
				SCALE	MATL.	SHEAR SIZE	DRAWING NO. 900-010903
ECO#	LET	DESCRIPTION	DATE				

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED

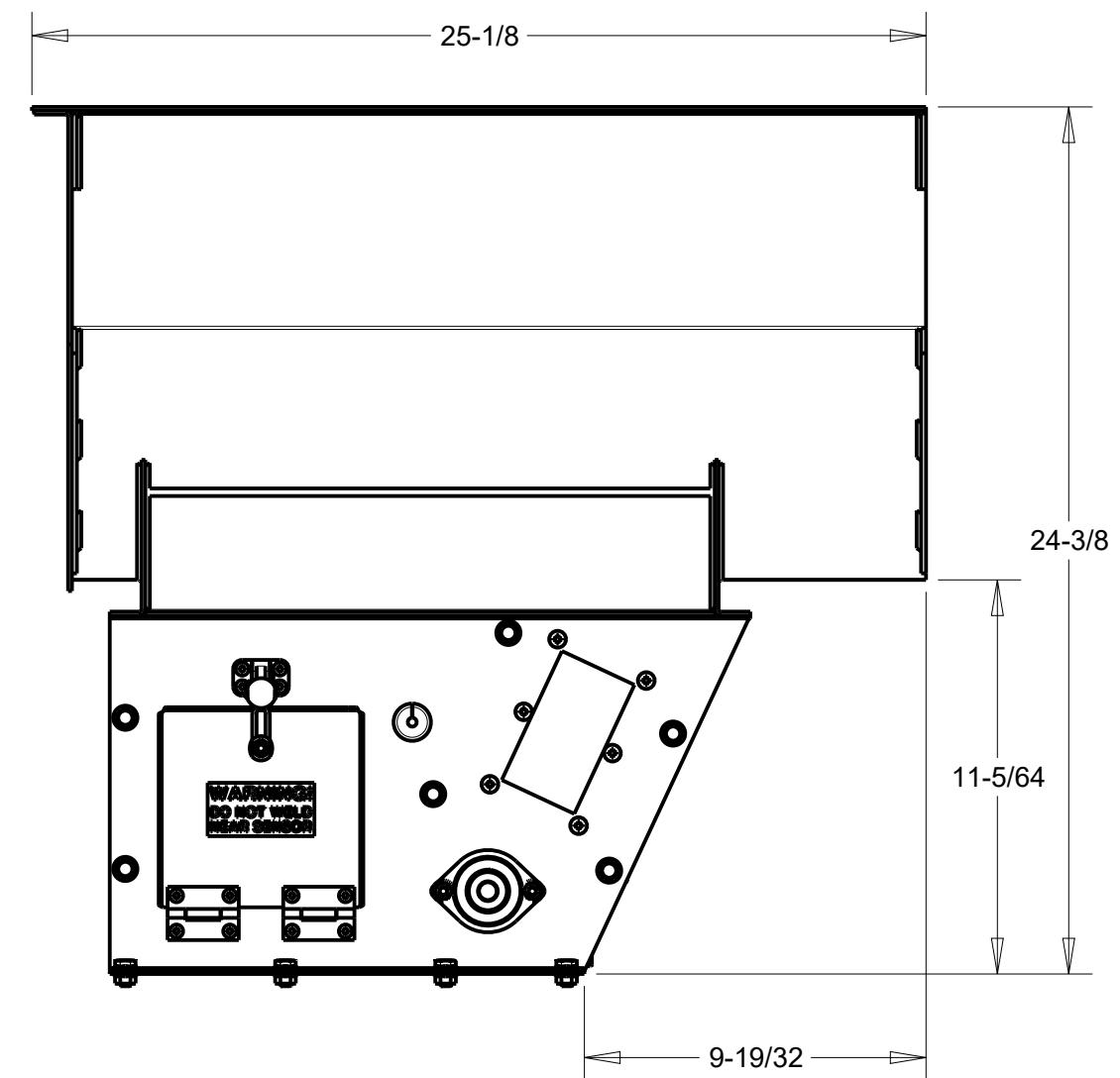
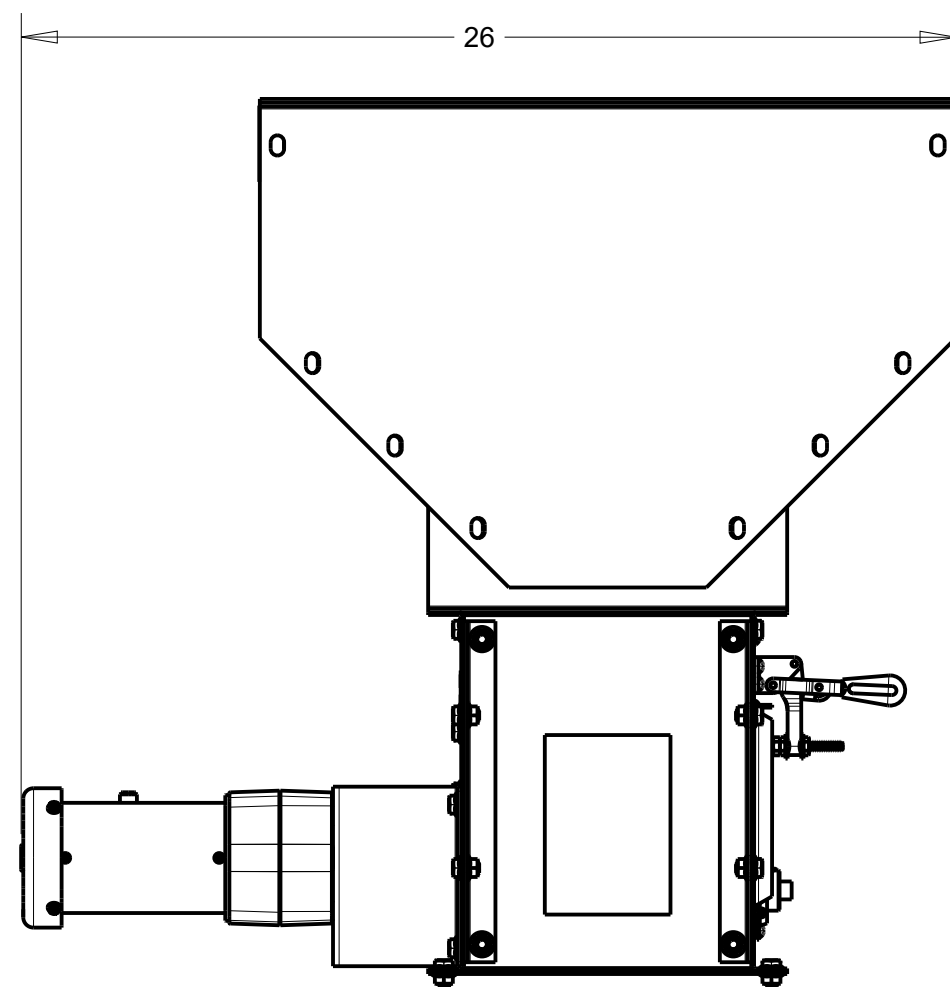
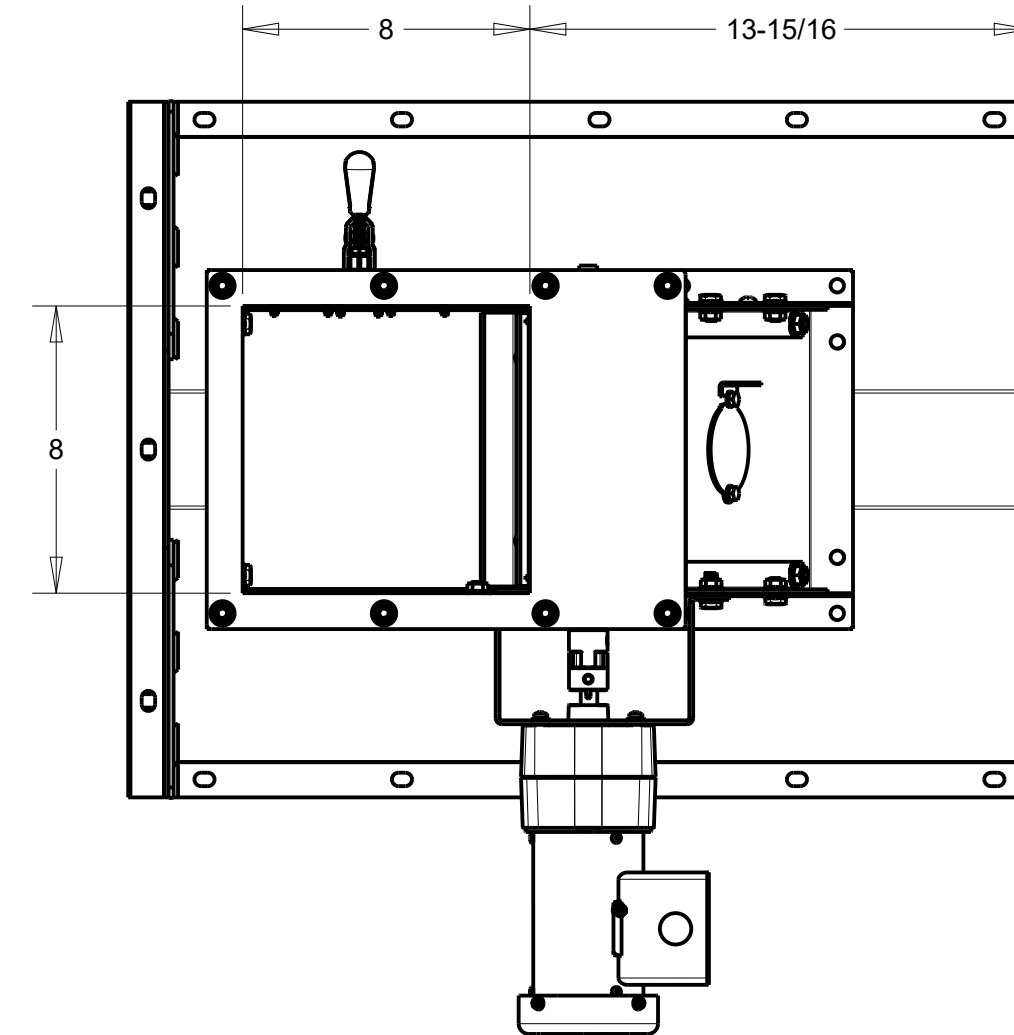
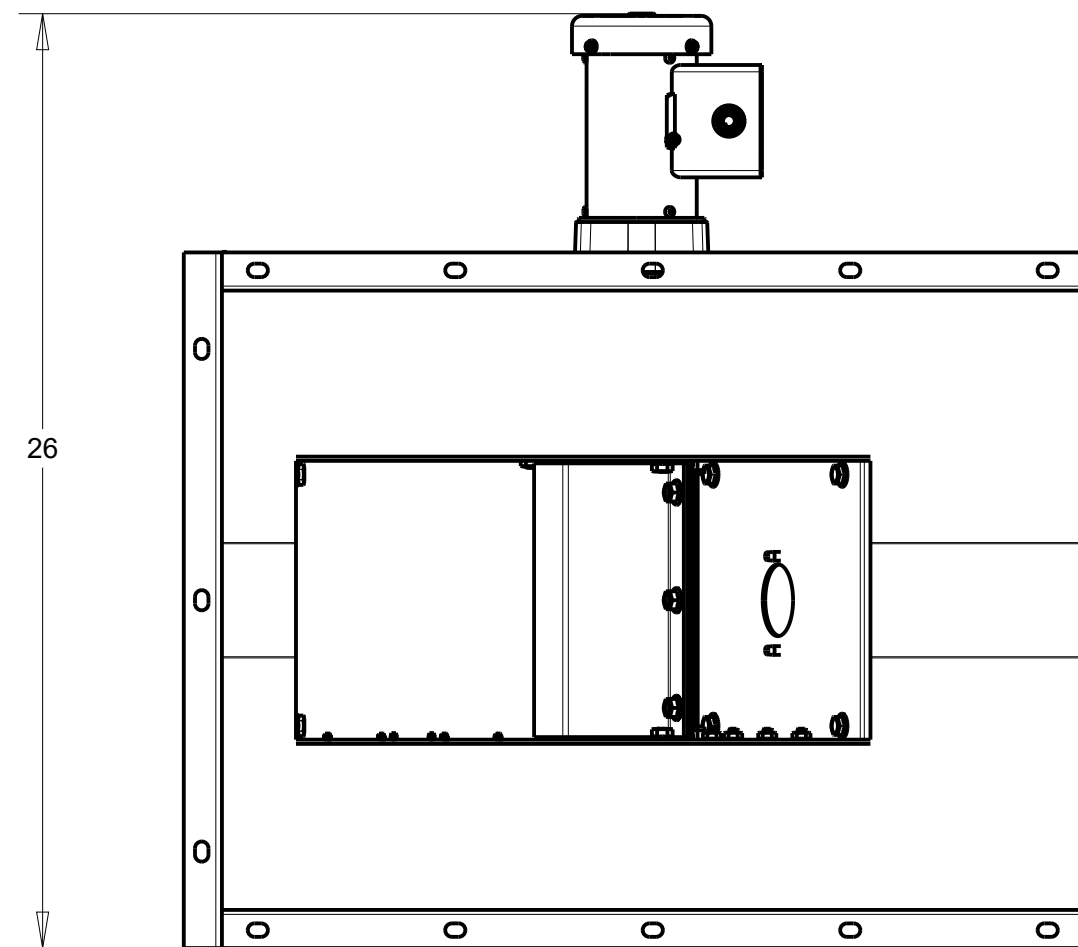
ITEM	PART NUMBER	QTY	DESCRIPTION
1	100-010159	2	ANGLE - FRONT/REAR - DRAG TO MLNK BY-PASS
2	100-010160	2	ANGLE - SIDE - DRAG TO MLNK BY-PASS
3	400-008731	1	ASSY-HEAD-8X10 DRAG-HEAD DISCH
4	400-010113	1	SENSOR BY-PASS CHUTE - MOISTURELINK



- NOTES:
- 1) THERE IS NO GEARBOX OR MOTOR DISPLAYED IN MODEL. THIS WILL VARY DEPENDING ON DRYER MODEL.
  - 2) GRAIN OUTLET IS 8" X 8"
  - 3) DRYER MODELS MUST HAVE A MINIMUM LEG SUPPORT OF 24". THIS HOWEVER DOES NOT TAKE INTO ACCOUNT THE HEIGHT OF HANDLING EQUIPMENT THE DRYER IS DISCHARGING INTO.
  - 4) REFERENCE DRAWING NO. 900-008750 FOR MORE INFORMATION REGARDING CONVEYOR ASSEMBLY & DIMENSIONING
  - 5) DRAWING BASED ON STANDARD DRAG DISCHARGE EXTENSION LENGTH.

				DRAWN BY JGW	<b>DELUX MFG. CO.</b> KEARNEY, NE		TITLE: ILLUSTRATION 8X10 DRAG CONVEYOR TO MOISTURELINK SENSOR BY-PASS CHUTE ASSEMBLY & DIMENSIONS	
				DATE 03/04/12				
				CHK'D	USED ON:		DRAWING NO. 900-010161	
				NEXT ASS'Y:				
				SCALE .171	MATL.	SHEAR SIZE		
ECO#	LET	DESCRIPTION	DATE	TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED				

ITEM	PART NUMBER	QTY	DESCRIPTION
1	400-010113	1	SENSOR BY-PASS CHUTE - MOISTURELINK
2	400-010114	1	DISCHARGE AUGER TROUGH - MLNK - 2FT



NOTES:

- 1) GRAIN OUTLET IS 8" X 8"
- 2) DRYER MODELS MUST HAVE A MINIMUM LEG SUPPORT OF 18". THIS HOWEVER DOES NOT TAKE INTO ACCOUNT THE HEIGHT OF HANDLING EQUIPMENT THE DRYER IS DISCHARGING INTO.
- 3) DRAWING BASED ON STANDARD AUGER EXTENSION LENGTH.

				DRAWN BY JGW	<b>DELUX MFG. CO.</b> KEARNEY, NE		TITLE: ILLUSTRATION 8" DISCHARGE AUGER TO MOISTURELINK SENSOR BY-PASS CHUTE ASSEMBLY & DIMENSIONS	
				DATE 03/04/12				
				CHK'D	USED ON:		DRAWING NO. 900-010162	
				NEXT ASS'Y:				
				SCALE .187	MATL.	SHEAR SIZE		
ECO#	LET	DESCRIPTION	DATE	TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED				