



**Date: Oct 22, 2020**

The MH Companies  
1044 Speer Blvd  
Denver CO 80204  
Phone: (303) 573-0222  
Fax: (303) 573-0922

Job Name  
**CDOT Traffic Meridian Rd./Bent Grass Meadows Dr. Intersection Improvements Bent Grass  
Metro District County of El Paso**  
MHDN20-106063

Bid Date  
Jul 8, 2020

Submittal Date  
Oct 22, 2020

*Architect:*  
No Architect

*Controls:*  
No Controls



# Transmittal

The MH Companies  
1044 Speer Blvd  
Denver CO 80204  
Phone: (303) 573-0222  
**From: Brianna Deets**

**Project** CDOT Traffic Meridian Rd./Bent Grass  
Meadows Dr. Intersection Improvements  
Bent Grass Metro District County of El Paso  
**Quote#** MHDN20-106063  
**Location**  
**To** C & D Electric, Inc.  
2025 Aeroplaza Unit 100  
Colorado Springs CO 80916  
Contact: Barry Grieser

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- |                                   |  |        |
|-----------------------------------|--|--------|
| <input type="checkbox"/> Drawings | <input type="checkbox"/> Specifications        | Other: |
| <input type="checkbox"/> Prints   | <input type="checkbox"/> Information           |        |
| <input type="checkbox"/> Plans    | <input checked="" type="checkbox"/> Submittals |        |

THESE ARE TRANSMITTED FOR:

- |  |   |                                 |
|--|---|---------------------------------|
| <input type="checkbox"/> Prior Approval        | <input type="checkbox"/> Resubmittal for Approval | <input type="checkbox"/> Record |
| <input checked="" type="checkbox"/> Approval   | <input type="checkbox"/> Corrections              | Bids due on:                    |
| <input type="checkbox"/> Approval as Submitted | <input type="checkbox"/> Your Use                 | Other:                          |
| <input type="checkbox"/> Approval as Noted     | <input type="checkbox"/> Review and Comment       |                                 |

## Type

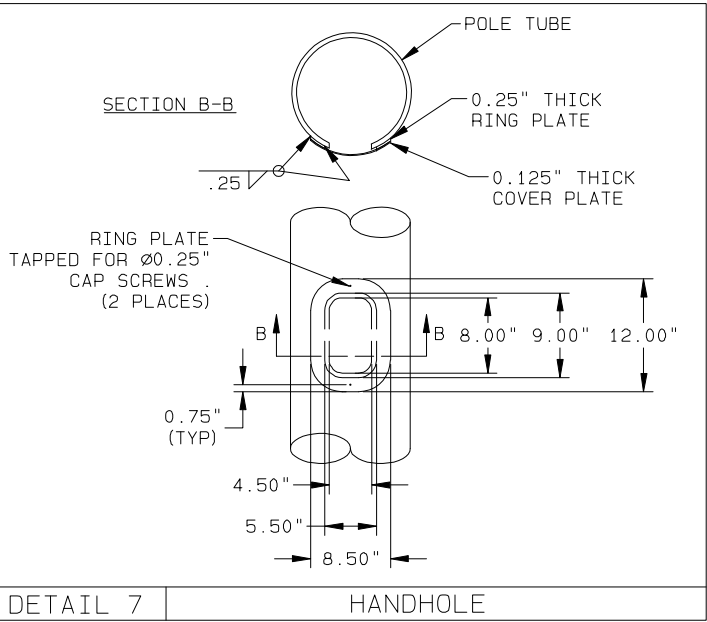
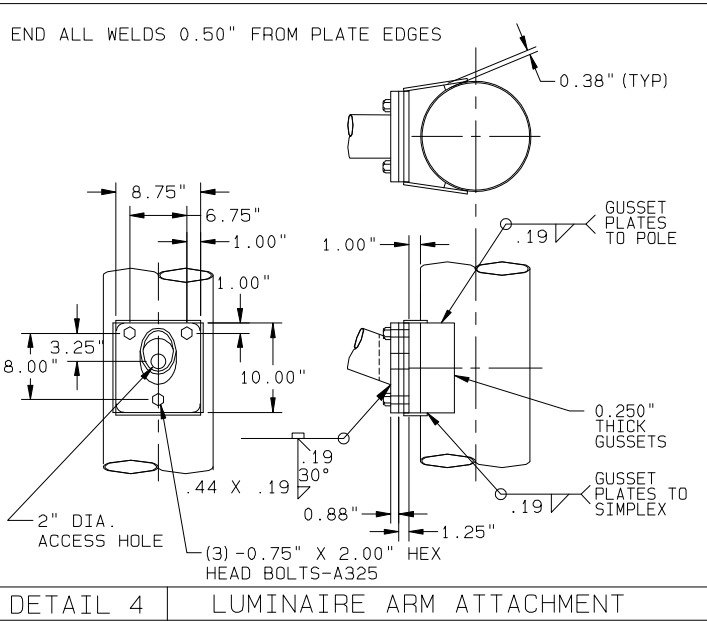
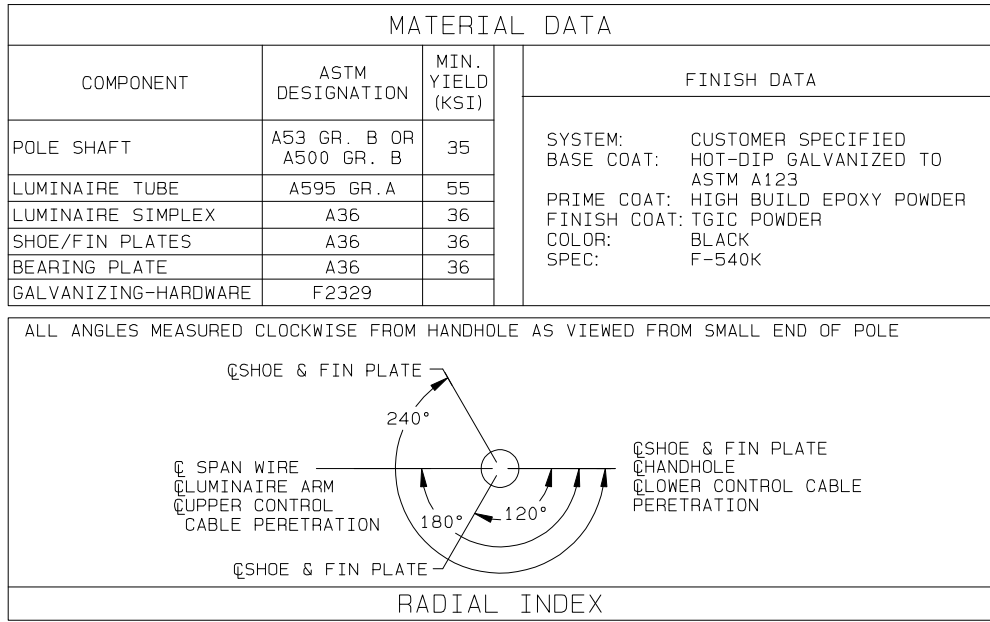
## MFG

## Part

Valmont

S614-41-53'-20" DIA SPAN WIRE-15'  
LMA @ 40' MTG HEIGHT-FP/GV F540  
(BLACK)  
S614-41-SPANWIRE

Valmont



NOTES:

1. EXTENSION TO BE FIELD WELDED. A 0.25" X 1.25" BACKING RING SHALL BE PROVIDED.
2. HOLE FOR SPAN WIRE ATTACHMENT SHALL BE FIELD DRILLED. EYEBOLTS AND HARDWARE PROVIDED BY OTHERS.



SPEC NUMBER: 980618X19-1

DESCRIPTION 18/6 Str 19-1 IMSA

CONSTRUCTION

AWG	18 AWG 7/BC
Conductors	6
Primary Insulation	Polyethylene
Nominal Wall	.025
Shield	Clear Mylar
% Overlap	20
Individual Drains	N/A
Jacket	PVC
Nominal Wall	.045
Tempature Rating	75°C
Operating Voltage	600V
Characteristics	Twisted with fillers to make round and jacketed

Print: "FALCON FINE WIRE "Year" IMSA 19-1 600V

Color Code: BLK-WHT-RD-GRN-ORG-BLU

# IMSA 19-1 14AWG



**Product Description:** 2 or more conductors conforming to ASTM B-3 before insulating. Insulated with PE (per UL 62, ASNI C33.1 - except for the cold bend test shall be minus 55C). Twisted with an overall moisture resistant tape and then jacketed with a high quality Class II PVC (per UL 62 ASNI C33.1). Sunlight resistant (per UL 854 ASNI C33.51)

Rated at 600V Indent printed

Non-wicking, non-metallic moisture resistant filler are used when needed to make round.

**USE:** Cable may be used in underground conduit or as aerial cable when supported by a messenger, or for installation in raceway in buildings (not including trays). This cable can be used as fire protective signaling or traffic signal cable. Suitable for use in wet or dry locations at 75°C

P/N	AWG	# COND	STRAND	INS THICKNESS	JACKET THICKNESS	NOM DIA.
98021419-1	14	2	SOLID	.025	.045	.350
980214X19-1	14	2	STRANDED	.025	.045	.360
98031419-1	14	3	SOLID	.025	.045	.335
980314X19-1	14	3	STRANDED	.025	.045	.340
98051419-1	14	5	SOLID	.025	.045	.402
980514X19-1	14	5	STRANDED	.025	.045	.426
98071419-1	14	7	SOLID	.025	.045	.445
980714X19-1	14	7	STRANDED	.025	.045	.463
98091419-1	14	9	SOLID	.025	.045	.515
980914X19-1	14	9	STRANDED	.025	.060	.575
98101419-1	14	10	SOLID	.025	.060	.570
981014X19-1	14	10	STRANDED	.025	.060	.590
98121419-1	14	12	SOLID	.025	.060	.585
981214X19-1	14	12	STRANDED	.025	.060	.620
98161419-1	14	16	SOLID	.025	.060	.660
981614X19-1	14	16	STRANDED	.025	.060	.702
98201419-1	14	20	SOLID	.025	.060	.720
982014X19-1	14	20	STRANDED	.025	.060	.779
982114X19-1	14	21	STRANDED	.025	.060	.790
98251419-1	14	25	SOLID	.025	.060	.810
982514X19-1	14	25	STRANDED	.025	.060	.900
98301419-1	14	30	SOLID	.025	.080	.838
983014X19-1	14	30	STRANDED	.025	.080	.935
98401419-1	14	40	SOLID	.025	.080	.989
984014X19-1	14	40	STRANDED	.025	.080	1.05
98501419-1	14	50	SOLID	.025	1.10	1.25
985014X19-1	14	50	STRANDED	.025	1.10	1.30

These values are nominal in accordance with industry standards. Additional gauges and conductor count are available. Additional color codes and State specific specs available upon request.

Color Code Chart: 4

Voltage: 600V

Temperature: 75°C



FALCON FINE WIRE, AND WIRE PRODUCTS, INC.  
2401 DISCOVERY BLVD • ROCKWALL, TEXAS 75032  
214-771-3441 • 972-722-9168 • falconwire@aol.com



# IMSA 50-2



**Product Description:** 2 conductor tinned copper wires conforming to ASTM B-3 before insulating, Insulated with polyethylene (per UL 62, ASNI C33.1 - except for the cold bend test shall be minus 55°C). Twisted together with an overall aluminum mylar shielding tape around the conductors with the drain wire outside the tape. Jacketed with a high quality sunlight resistant polyethylene compound.  
Rated at 600V Ink jet printing

**Use:** For use in traffic signal installations, suitable for conduit installations in wet or dry locations.

P/N	AWG	# COND	STRAND	INS THICKNESS	JACKET THICKNESS	NOM DIA.
98021250-2	12	2	19/TC	.030	.030	.365
98021450-2	14	2	19/TC	.030	.030	.340
98021650-2	16	2	19/TC	.030	.030	.295
98021850-2	18	2	19/TC	.030	.030	.280
These values are nominal in accordance with industry standards. Additional color code and State specific specs available upon request. Color Code: Blk-Clr Voltage: 600V Temperature: 75°C						

**PRODUCTS****Steel Wire Rope****Pc Strand****Cable Tie Out****Chain****Chain Assemblies****Anchor Chain & Anchor****Frame Hook****G80 Hook****Regular Hook****Miscellaneous Hook****Link****Ring****Load Binder****Turnbuckle****Eye Bolt****Shackle****Wire Rope Clip****Thimble****Snap Hook****Sleeve****Small Anchor****Buckle****Metal Hook****Pulley and Block****Other**

◀ **STEEL WIRE ROPE** ▶

*Previous* *Next*

**SPECIFICATION: ASTM A 475**  
**HOT DIP GALVANIZED STRANDS , CLASS A**



Nominal Diameter	Construction	Nominal Diameter Of Wires	Approx Weight		Min Breaking Strength		Weight Of Zinc Coating(Grade A)	
					High Strength	Extra High Strength		
in		in	lb/ft	kg/1000'	lb	lb	oz/sq.ft	g/sq.m
1/8	1x7	0.041	0.032	14.5	1,330	1,830	0.40	122
5/32	1x7	0.052	0.051	23	2,140	2,940	0.40	122
3/16	1x7	0.062	0.073	33	2,850	3,990	0.50	153
7/32	1x7	0.072	0.098	45	3,850	5,400	0.50	153
1/4	1x7	0.080	0.121	55	4,750	6,650	0.60	183
9/32	1x7	0.093	0.164	74	6,400	8,950	0.70	214
5/16	1x7	0.109	0.205	93	8,000	11,200	0.80	244
3/8	1x7	0.120	0.273	124	10,800	15,400	0.80	244
7/16	1x7	0.145	0.399	181	14,500	20,800	0.90	275
1/2	1x7	0.165	0.517	235	18,800	26,900	0.90	275
9/16"	1x7	.188	0.671	304	24,500	35,000	1.00	305
1/2	1x19	0.100	0.504	229	19,100	26,700	0.70	214
9/16	1x19	0.113	0.637	289	24,100	33,700	0.80	244
5/8	1x19	0.125	0.796	362	28,100	40,200	0.85	259

Provide sketch showing where each size is being used

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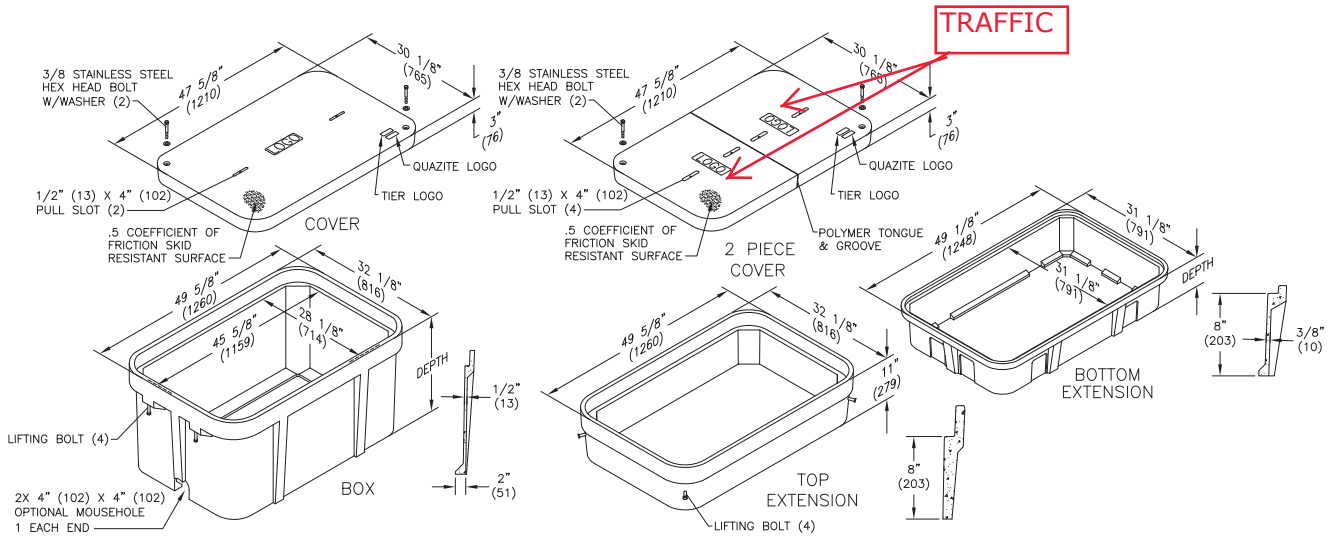




# Dimensions / Data

## 30" x 48" PG Style Polymer Concrete (Stackable) Assembly

**Hex Head Bolts are Standard**



### Covers

	DESCRIPTION	TIER	DESIGN / TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
UL	W/ 2 Bolts	8	8,000 / 12,000	159	10	PG3048CA00**
	2 piece w/2 Bolts	8	8,000 / 12,000	181	10	PG3048CS00**
UL	W/ 2 Bolts	15	15,000 / 22,500	206	10	PG3048HA00**
UL	2 piece w/2 Bolts	15	15,000 / 22,500	206	10	PG3048HS00**
UL	W/ 2 Bolts	22	22,500 / 33,750	220	10	PG3048HH00**
	2 piece w/2 Bolts	22	22,500 / 33,750	202	10	PG3048H510**
UL	No Bolts	8	8,000 / 12,000	159	10	PG3048WA00**

To order gasketed covers, replace the letter "A" with the letter "G".

Replace \*\* with a logo code found on page 62. See page 68 for meter and touch/radio read cover options.

NOTE: Gasketed covers and bolt grommets must be used with a gasketed box. Gaskets reduce the inflow of fluids but do not make the enclosure water tight.

Available with EZ Locate. See page 67 for more information.



# Dimensions / Data 30" x 48" PG Style Polymer Concrete (Stackable) Assembly (Continued)

Hex Head Bolts are Standard

## Boxes (Box depths 24" thru 48" must be used as bottom of any stack)

	DESCRIPTION	DEPTH	TIER	DESIGN / TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
UL		18"		22,500 / 33,750	185	4	PG3048BA18
UL	Standard Open Bottom	24"	22	22,500 / 33,750	236	3	PG3048BA24
UL		36"		22,500 / 33,750	343	2	PG3048BA36
		48"		22,500 / 33,750	450	1	PG3048BA48
UL	Solid Bottom	18 1/2"	22	22,500 / 33,750	220	4	PG3048DA18
UL		24 1/2"		22,500 / 33,750	287	3	PG3048DA24
UL		36 1/2"		22,500 / 33,750	394	2	PG3048DA36
		48"		22,500 / 33,750	501	1	PG3048DA48

To order boxes with 2 standard mouseholes, replace the letter "A" with the letter "B".

To order gasketed boxes, replace the letter "A" with the letter "G".

NOTE: Gasketed covers and bolt grommets must be used with a gasketed box. Gaskets reduce the inflow of fluids but do not make the enclosure water tight.

## Top Extension

DESCRIPTION	DEPTH	TIER	DESIGN / TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
Open bottom	11"	22	22,500 / 33,750	100	8	PG3048EA11

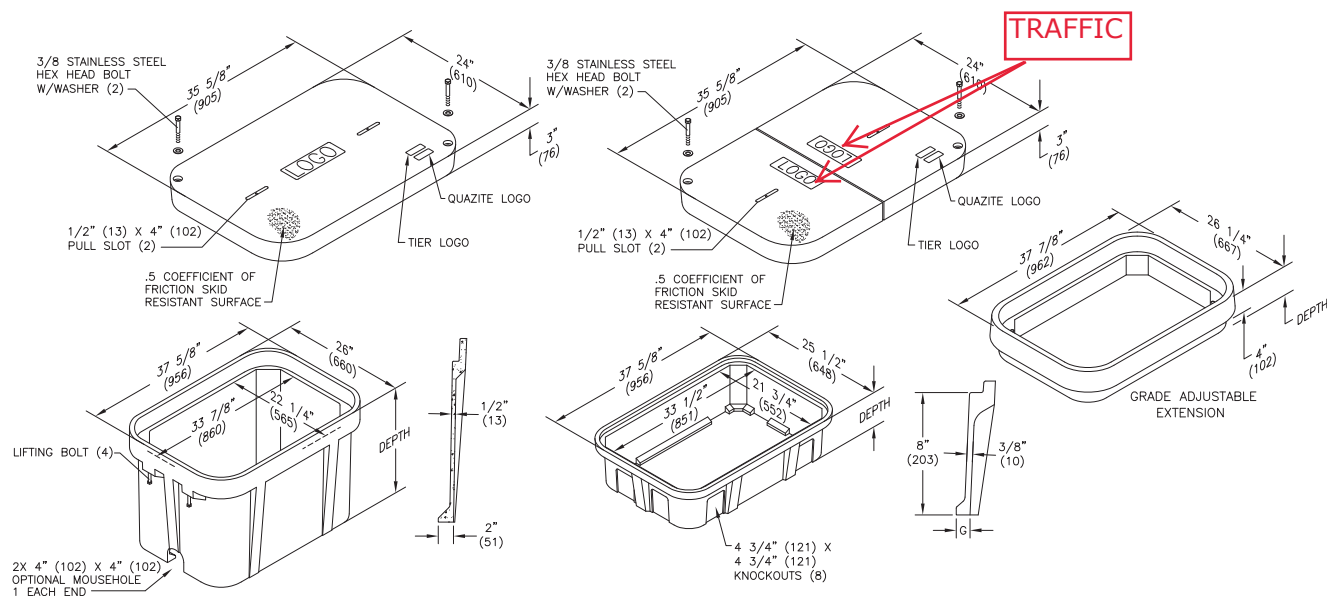
## Bottom Extensions (for use under 18" box only, one per box)

DESCRIPTION	DEPTH	TIER	DESIGN / TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
Open bottom	8 3/4"	22	22,500 / 33,750	102	8	PG3048EA08
Solid bottom	9 1/4"	22	22,500 / 33,750	151	8	PG3048RA08

## Dimensions / Data

## 24" x 36" PG Style Polymer Concrete (Stackable) Assembly

## Hex Head Bolts are Standard



## Covers

	DESCRIPTION	TIER	DESIGN / TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
U <sub>L</sub>	W/ 2 Bolts	8	8,000 / 12,000	100	10	PG2436CA00**
	2 piece w/2 Bolts	8	8,000 / 12,000	122	10	PG2436CS00**
U <sub>L</sub>	W/ 2 Bolts	15	15,000 / 22,500	115	10	PG2436HA00**
U <sub>L</sub>	2 piece w/2 Bolts	15	15,000 / 22,500	122	10	PG2436HS00**
U <sub>L</sub>	W/ 2 Bolts	22	22,500 / 33,750	122	10	PG2436HH00**
	2 piece w/2 Bolts	22	22,500 / 33,750	202	10	PG2436H544**
U <sub>L</sub>	No Bolts	8	8,000 / 12,000	100	10	PG2436WA00**

To order gasketed covers, replace the letter "A" with the letter "G".

Replace \*\* with a logo code found on page 62. See page 68 for meter and touch/radio read cover options.

**NOTE:** Gasketed covers and bolt grommets must be used with a gasketed box. Gaskets reduce the inflow of fluids but do not make the enclosure water tight.

Available with EZ Locate. See page 67 for more information.

# Dimensions / Data 24"x 36" PG Style Polymer Concrete (Stackable) Assembly (Continued)

Hex Head Bolts are Standard

## Boxes (Box depths 24" thru 42" must be used as bottom of any stack)

	DESCRIPTION	DEPTH	TIER	DESIGN / TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
UL	Standard Open Bottom	18"	22	22,500 / 33,750	141	4	PG2436BA18
UL		24"		22,500 / 33,750	180	3	PG2436BA24
UL		30"		22,500 / 33,750	196	2	PG2436BA30
UL		36"		22,500 / 33,750	254	2	PG2436BA36
UL		42"		22,500 / 33,750	293	1	PG2436BA42
UL	Solid Bottom	18 1/2"	22	22,500 / 33,750	171	4	PG2436DA18
UL		24 1/2"		22,500 / 33,750	228	3	PG2436DA24
UL		30 1/2"		22,500 / 33,750	238	2	PG2436DA30
UL		36 1/2"		22,500 / 33,750	282	2	PG2436DA36
UL		42 1/2"		22,500 / 33,750	321	1	PG2436DA42

To order boxes with 2 standard mouseholes, replace the letter "A" with the letter "B".

To order gasketed boxes, replace the letter "A" with the letter "G".

NOTE: 24" thru 42" boxes must be used as bottom on any stack.

NOTE: Gasketed covers and bolt grommets must be used with a gasketed box. Gaskets reduce the inflow of fluids but do not make the enclosure water tight.

## Bottom Extensions (for use under 12" and 18" boxes only, one per box)

DESCRIPTION	DEPTH	TIER	DESIGN / TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
Open bottom	8 3/4"	22	22,500 / 33,750	81	6	PG2436EA08
Solid bottom	9 1/4"	22	22,500 / 33,750	95	6	PG2436RA08

## Grade Adjustable Extension

DESCRIPTION	DEPTH	TIER	DESIGN / TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
4" top extension, 1/2 thread	7 1/8"	22	22,500 / 33,750	80	6	PG2436ED04
4" top extension, 3/8 thread	7 1/8"	22	22,500 / 33,750	80	6	PG2436E503