

ORINATION FORM

Proposed Revisions to a Standard Plans Index
(Please provide all information – Incomplete forms will be returned)

Contact Information:

Date: July 24, 2018
Originator: **Cheryl Hudson/Charlie Harvey**
Phone: 414-5332
Email:

Standard Plans:

Index Number: **649-030**
Sheet Number (s): 1
Index Title: Standard Mast Arm Assemblies

Summary of the changes:

Added 25' long shaft to Drilled Shafts; Changed BA & BC for Pole 1; Changed No. Bolts for P4, P5, P6, and P7.

Commentary / Background:

Drilled shaft is request from Districts.

Other Affected Offices / Documents: (Provide name of responsible personnel)

- | Yes | No | |
|--------------------------|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Standard Plans – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | FDOT Design Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Basis of Estimates Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Standard Specifications – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Approved Product List – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Construction – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Maintenance – |

Origination Package Includes: (Email or hand deliver package to Derwood Sheppard)

- | Yes | N/A | |
|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Redline Mark-ups |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Proposed Standard Plan Instructions (SPI) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Revised SPI |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Support Documents |

Implementation:

- Design Bulletin (Interim) DCE Memo Program Mgmt. Bulletin FY-Standard Plans (Next Release)

————— **Contact the Roadway Design Office for assistance in completing this form** —————

ARM AND BASE PLATE												
Arm ID Axx-ArmLength S-SingleArm D-DoubleArm H-HeavyDuty	Total Arm Length (ft)	Arm			Arm Extension			Base Plate				
		FA/SA (ft)	FC/SC (in)	FD/SD (in)	FE/SE (ft)	FG/SG (in)	FH/SH (in)	HT (in)	FJ/SJ (in)	FK/SK (in)		
A30/S	30	30	11	0.250				22	25	3		
A30/S/H		30	12	0.250								
A30/D		30	11	0.250				30	36			
A30/D/H		30	12	0.250								
A40/S	40	40	13	0.250				22	27	3		
A40/S/H		40	14	0.250								
A40/D		40	13	0.250				30	36			
A40/D/H		40	14	0.250								
A50/S	50	32.5	12	0.250	20.5	14	0.313	22	29	3		
A50/S/H		32.5	13	0.250	20.5	15						
A50/D		32.5	12	0.250	20.5	14			30		36	
A50/D/H		32.5	13	0.250	20.5	15						
A60/S	60	35.5	12	0.250	27.5	15	0.375	30	36	3		
A60/S/H		35.5	13	0.250	27.5	16						
A60/D		35.5	12	0.250	27.5	15						
A60/D/H		35.5	13	0.250	27.5	16						
A70/S	70	38	13	0.250	35	17	0.375	30	36	3		
A70/S/H		38	14	0.250	35	18						
A70/D		38	13	0.250	35	17						
A70/D/H		38	14	0.250	35	18						
A78/S	78	39	13	0.250	42	18	0.375	30	36	3		
A78/S/H		39	15	0.250	42	20						
A78/D		39	13	0.250	42	18						
A78/D/H		39	15	0.250	42	20						

POLE, BASE PLATE AND ARM CONNECTION																													
Pole ID Px-PoleNo S-SingleArm D-DoubleArm L-Luminaire	Upright				Base Plate				Arm-Upright Connection																				
	UA (ft)	UD (in)	UE (in)	UG (ft)	No. Bolts	BA (in)	BB (in)	BC (in)	BF (in)	HT (in)	FJ/SJ (in)	FL/SL (in)	FN/SN (in)	FO/SO (in)	FP/SP (in)	FR/SR (in)	FS/SS (in)	FT/ST (in)											
P1/S	25	16	0.375	37.5	6	30	2.5	1.75	40	22	25	0.75	0.438	14	1.25	2	8.5	0.438											
P1/S/L	39																			30	36	23							
P1/D	25																												
P1/D/L	39																												
P2/S	25	18	0.375	37.5	6	34	2.5	2	40	22	27	0.75	0.438	15	1.25	2	8.5	0.438											
P2/S/L	39																			30	36	23							
P2/D	25																												
P2/D/L	39																												
P3/S	25	20	0.375	37.5	6	36	2.5	2	40	22	29	0.75	0.438	16	1.25	2	8.5	0.438											
P3/S/L	39																			30	36	23							
P3/D	25																												
P3/D/L	39																												
P4/S	25	22	0.375	37.5	6	38	2.5	2	40	30	36	0.75	0.438	17	1.25	2.5	12.5	0.438											
P4/S/L	39																						23						
P4/D	25																												
P4/D/L	39																												
P5/S	25	24	0.375	37.5	6	40	2.5	2	40	30	36	0.75	0.5	18	1.25	2.5	12.5	0.5											
P5/S/L	39																						23						
P5/D	25																												
P5/D/L	39																												
P6/S	25	24	0.5	37.5	6	42	2.5	2.25	45	30	36	0.75	0.625	18	1.5	2.5	12	0.625											
P6/S/L	39																						23						
P6/D	25																												
P6/D/L	39																												
P7/S	25	26	0.5	37.5	6	44	2.5	2.25	45	30	36	0.75	0.625	19	1.5	2.5	12	0.625											
P7/S/L	39																						23						
P7/D	25																												
P7/D/L	39																												

NOTE:

1. Work this Index with Index 649-031.

DRILLED SHAFT								
Drilled Shaft ID	DA (ft)	DB (ft)	RA	RB	RC	RD (in)	RE	RF (in)
DS/12/4.0	12	4.0	11	14	8	12		
DS/12/4.5	12	4.5	11	16	8	12		
DS/14/4.5	14	4.5	11	16	10	8		
DS/14/5.0	14	5.0	11	18	10	8		
DS/16/4.5	16	4.5	11	16	10	8		
DS/16/5.0	16	5.0	11	18	10	8		
DS/18/5.0	18	5.0	11	18	10	8		
DS/20/5.0	20	5.0	11	18	10	6	10	9

Added DS/25/5.0

LUMINAIRE AND CONNECTION											
LA (ft)	LB (ft)	LC (in)	LD (in)	LE	LF (ft)	LG (in)	LH (in)	LJ (in)	LK (in)	LL (deg)	UG (ft)
40	10	3	0.125	0.5	8	0.5	0.75	0.25	0.25	0	37.5

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LAST REVISION	DESCRIPTION:
11/01/17	11/01/18



FY 2018-19
STANDARD PLANS

STANDARD MAST ARM ASSEMBLIES

INDEX
649-030

SHEET
1 of 1

ARM AND BASE PLATE											
Arm ID Axx-ArmLength S-SingleArm D-DoubleArm H-HeavyDuty	Total Arm Length (ft)	Arm			Arm Extension			Base Plate			
		FA/SA (ft)	FC/SC (in)	FD/SD (in)	FE/SE (ft)	FG/SG (in)	FH/SH (in)	HT (in)	FJ/SJ (in)	FK/SK (in)	
A30/S	30	30	11	0.250				22	25	3	
A30/S/H		30	12	0.250							
A30/D		30	11	0.250				30	36		
A30/D/H		30	12	0.250							
A40/S	40	40	13	0.250				22	27	3	
A40/S/H		40	14	0.250							
A40/D		40	13	0.250				30	36		
A40/D/H		40	14	0.250							
A50/S	50	32.5	12	0.250	20.5	14	0.313	22	29	3	
A50/S/H		32.5	13	0.250	20.5	15					
A50/D		32.5	12	0.250	20.5	14			30		36
A50/D/H		32.5	13	0.250	20.5	15					
A60/S	60	35.5	12	0.250	27.5	15	0.375	30	36	3	
A60/S/H		35.5	13	0.250	27.5	16					
A60/D		35.5	12	0.250	27.5	15					
A60/D/H		35.5	13	0.250	27.5	16					
A70/S	70	38	13	0.250	35	17	0.375	30	36	3	
A70/S/H		38	14	0.250	35	18					
A70/D		38	13	0.250	35	17					
A70/D/H		38	14	0.250	35	18					
A78/S	78	39	13	0.250	42	18	0.375	30	36	3	
A78/S/H		39	15	0.250	42	20					
A78/D		39	13	0.250	42	18					
A78/D/H		39	15	0.250	42	20					

POLE, BASE PLATE AND ARM CONNECTION																						
Pole ID Px-PoleNo S-SingleArm D-DoubleArm L-Luminaire	Upright				Base Plate				Arm-Upright Connection													
	UA (ft)	UD (in)	UE (in)	UG (ft)	No. Bolts	BA (in)	BB (in)	BC (in)	BF (in)	HT (in)	FJ/SJ (in)	FL/SL (in)	FN/SN (in)	F0/S0 (in)	FP/SP (in)	FR/SR (in)	FS/SS (in)	FT/ST (in)				
P1/S	25	16	0.375	37.5	6	32	2.5	2	40	22	25	0.75	0.438	14	1.25	2	8.5	0.438				
P1/S/L	39																					
P1/D	25																					
P1/D/L	39																					
P2/S	25	18	0.375	37.5	6	34	2.5	2	40	22	27	0.75	0.438	15	1.25	2	8.5	0.438				
P2/S/L	39																					
P2/D	25																					
P2/D/L	39																					
P3/S	25	20	0.375	37.5	6	36	2.5	2	40	22	29	0.75	0.438	16	1.25	2	8.5	0.438				
P3/S/L	39																					
P3/D	25																					
P3/D/L	39																					
P4/S	25	22	0.375	37.5	8	38	2.5	2	40	30	36	0.75	0.438	17	1.25	2.5	12.5	0.438				
P4/S/L	39																					
P4/D	25																					
P4/D/L	39																					
P5/S	25	24	0.375	37.5	8	40	2.5	2	40	30	36	0.75	0.5	18	1.25	2.5	12.5	0.5				
P5/S/L	39																					
P5/D	25																					
P5/D/L	39																					
P6/S	25	24	0.5	37.5	8	42	2.5	2.25	45	30	36	0.75	0.625	18	1.5	2.5	12	0.625				
P6/S/L	39																					
P6/D	25																					
P6/D/L	39																					
P7/S	25	26	0.5	37.5	8	44	2.5	2.25	45	30	36	0.75	0.625	19	1.5	2.5	12	0.625				
P7/S/L	39																					
P7/D	25																					
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NOTE:

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DS/12/4.5	12	4.5	11	16	8	12		
DS/14/4.5	14	4.5	11	16	10	8		
DS/14/5.0	14	5.0	11	18	10	8		
DS/16/4.5	16	4.5	11	16	10	8		
DS/16/5.0	16	5.0	11	18	10	8		
DS/18/5.0	18	5.0	11	18	10	8		
DS/20/5.0	20	5.0	11	18	10	6	10	9
DS/25/5.0	25	5.0	11	18	10	6	10	9

LUMINAIRE AND CONNECTION											
LA (ft)	LB (ft)	LC (in)	LD (in)	LE	LF (ft)	LG (in)	LH (in)	LJ (in)	LK (in)	LL (deg)	UG (ft)
40	10	3	0.125	0.5	8	0.5	0.75	0.25	0.25	0	37.5

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