
ORIGINATION FORM

Proposed Revisions to a Standard Plans Index

(Please provide all information — Incomplete forms will be returned)

Contact Information:

Date: January 13, 2022

Originator: Joshua Turley

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Standard Plans:

Index Number: 649-030

Sheet Number (s): 1

Index Title: Standard Mast Arm Assemblies

Summary of the changes:

Sheet 1: Changed columns in Arm and Base Plate table to consolidate cells with repeated information.

Commentary / Background:**Other Affected Offices / Documents:** (Provide name of person contacted)

- | 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 Rick Jenkins)

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

Implementation:

- | | |
|-------------------------------------|----------------------------------|
| <input type="checkbox"/> | Design Bulletin (Interim) |
| <input type="checkbox"/> | DCE Memo |
| <input checked="" type="checkbox"/> | Program Mgmt. Bulletin |
| <input checked="" type="checkbox"/> | FY-Standard Plans (Next Release) |

Contact the Roadway Design Office for assistance in completing this form

Email to: Rick Jenkins rick.jenkins@dot.state.fl.us and Darren Martin darren.martin@dot.state.fl.us

ADDED: Dashes in the blank cells

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	
A30/S/H		30	12	0.25						3
A30/D		30	11	0.250				30	36	
A30/D/H		30	12	0.250						
A40/S	40	40	13	0.250				22	27	
A40/S/H		40	14	0.25						3
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		22	29	
A50/S/H		32.5	13	0.25	20.5	15	0.313			3
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				
A60/S/H		35.5	13	0.25	27.5	16	0.375	30	36	3
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				
A70/S/H		38	14	0.25	35	18	0.375	30	36	3
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				
A78/S/H		39	15	0.25	42	20	0.375	30	36	3
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									22	25			14		2	8.5					
P1/S/L	39	16	0.375	37.5	6	32	2.5	2	40	30	36	0.75	0.438	23	1.25	2.75	12.5	0.438				
P1/D	25																					
P1/D/L	39																					
P2/S	25									22	27			15		2	8.5					
P2/S/L	39	18	0.375	37.5	6	34	2.5	2	40	30	36	0.75	0.438	23	1.25	2.75	12.5	0.438				
P2/D	25																					
P2/D/L	39																					
P3/S	25									22	29			16		2	8.5					
P3/S/L	39	20	0.375	37.5	6	36	2.5	2	40	30	36	0.75	0.438	23	1.25	2.75	12.5	0.438				
P3/D	25																					
P3/D/L	39																					
P4/S	25													17								
P4/S/L	39	22	0.375	37.5	8	38	2.5	2	40	30	36	0.75	0.438	23	1.25	2.5	12.5	0.438				
P4/D	25																					
P4/D/L	39																					
P5/S	25									30	36	0.75	0.5	18		2.5	12.5	0.5				
P5/S/L	39	24	0.375	37.5	8	40	2.5	2	40	30	36	0.75	0.5	23	1.25	2.5	12.5	0.5				
P5/D	25																					
P5/D/L	39																					
P6/S	25									30	36	0.75	0.625	18		2.5	12	0.625				
P6/S/L	39	24	0.5	37.5	8	40	2.5	2	40	30	36	0.75	0.625	23	1.5	2.5	12	0.625				
P6/D	25																					
P6/D/L	39																					
P7/S	25													19								
P7/S/L	39	26	0.5	37.5	8	42	2.5	2	40	30	36	0.75	0.625	23	1.5	2.5	12	0.625				
P7/D	25																					
P7/D/L	39																					

Updated

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
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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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	0.25	--	--	--	22	25	3	
A30/S/H			12					30			
A30/D			11					36			
A30/D/H			12					36			
A40/S	40	40	13	0.25	--	--	--	22	27	3	
A40/S/H			14					30			
A40/D			13					36			
A40/D/H			14					36			
A50/S	50	32.5	12	0.25	20.5	14	0.313	22	29	3	
A50/S/H			13					30			
A50/D			12					36			
A50/D/H			13					36			
A60/S	60	35.5	12	0.25	27.5	15	0.375	30	36	3	
A60/S/H			13								36
A60/D			12								36
A60/D/H			13								36
A70/S	70	38	13	0.25	35	17	0.375	30	36	3	
A70/S/H			14								36
A70/D			13								36
A70/D/H			14								36
A78/S	78	39	13	0.25	42	18	0.375	30	36	3	
A78/S/H			15								36
A78/D			13								36
A78/D/H			15								36

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	32	2.5	2	40	22	25	0.75	0.438	14	1.25	2	8.5	0.438			
P1/S/L	39									30	23			2.75		12.5					
P1/D	25									36	23			2.75		12.5					
P1/D/L	39									36	23			2.75		12.5					
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	23			2.75		12.5					
P2/D	25									36	23			2.75		12.5					
P2/D/L	39									36	23			2.75		12.5					
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	23			2.75		12.5					
P3/D	25									36	23			2.75		12.5					
P3/D/L	39									36	23			2.75		12.5					
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									36	23			2.5		12.5					
P4/D	25									36	23			2.5		12.5					
P4/D/L	39									36	23			2.5		12.5					
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									36	23			2.5		12.5					
P5/D	25									36	23			2.5		12.5					
P5/D/L	39									36	23			2.5		12.5					
P6/S	25	24	0.5	37.5	8	40	2.5	2	40	30	36	0.75	0.625	18	1.5	2.5	12	0.625			
P6/S/L	39									36	23			2.5		12					
P6/D	25									36	23			2.5		12					
P6/D/L	39									36	23			2.5		12					
P7/S	25	26	0.5	37.5	8	42	2.5	2	40	30	36	0.75	0.625	19	1.5	2.5	12	0.625			
P7/S/L	39									36	23			2.5		12					
P7/D	25									36	23			2.5		12					
P7/D/L	39									36	23			2.5		12					

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
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

SDATES