ITEM	QTY.	CATALOG NUMBER	TYPE II SERIES POLE DATA: LENGTH "A"	SHAFT DIMENSIONS TOP O.D. X BASE O.D.	MATERIAL BREAKDOWN .120" THK.	.179" THK.	.239" THK.	.3125" THK.	.375" THK.	BASE SQ. "SQ."	BOLT CIRCLE "B.C."	BASE THK. "THK."	ANCHOR BOLT SIZE	MAST ARM LENGTH RANGE "F"
		TYPE IIA-90-XX-W3724	22'-0" [6.7]	10 1/2" X 13 1/2" [267 X 343]	–	–	–	22'-0" [6.7]	–	18" [457]	18" [457]	1 1/2" [38]	1 1/2" X 60" [38 X 1524]	20'-0" THRU 45'-0" [6.1] [13.7]
		TYPE IIB-90-XX-W3724	22'-0" [6.7]	13 1/4" X 16 1/4" [336 X 413]	–	–	–	22'-0" [6.7]	–	22" [559]	22" [559]	2" [51]	2" X 60" [51 X 1524]	50'-0" THRU 55'-0" [15.2] [16.8]
		TYPE IIC-90-XX-W3724	22'-0" [6.7]	13 1/4" X 16 1/4" [336 X 413]	–	–	–	–	22'-0" [6.7]	22" [559]	22" [559]	2" [51]	2" X 60" [51 X 1524]	60'-0" THRU 65'-0" [18.3] [19.8]

NOTES:

1.) SEE SHEET 1 OF 2 FOR DETAILS & NOTES (W3724-1)
2.) DIMENSIONS IN [ ] ARE METRIC. INCHES CONVERTED TO MILLIMETERS AND FEET TO METERS.
3.) LUMINAIRE POLE EXTENSION VARIES DEPENDING ON LUMINAIRE MOUNTING HEIGHT. THICKNESS IS .120" [3] THK. AND A TAPER OF .1375" PER FT [11.5 mm/m].
4.) 60'-0" & 65'-0" MAST ARMS ARE TO BE FABRICATED IN (2) SECTIONS. INBOARD SECTION IS TO BE 40 FT. LONG.

ITEM	QTY.	CATALOG NUMBER	TYPE III SERIES POLE DATA: LENGTH "A"	SHAFT DIMENSIONS TOP O.D. X BASE O.D.	MATERIAL BREAKDOWN .120" THK.	.179" THK.	.239" THK.	.3125" THK.	.375" THK.	BASE SQ. "SQ."	BOLT CIRCLE "B.C."	BASE THK. "THK."	ANCHOR BOLT SIZE	LUMIN. ARM LENGTH "C"	MAST ARM LENGTH RANGE "F"	LUMIN MOUNTING HEIGHT "A2" (MAX.)	(MIN.)
		TYPE IIIA-90-XX-XXXXX-W3724	22'-0" [6.7]	10 1/2" X 13 1/2" [267 X 343]	③	–	–	22'-0" [6.7]	–	18" [457]	18" [457]	1 1/2" [38]	1 1/2" X 60" [38 X 1524]	16'-0" MAX [4.9] MAX	20'-0" THRU 45'-0" [6.1] [13.7]	50'-0" [15.2]	27'-6" [8.69]
		TYPE IIIB-90-XX-XXXXX-W3724	22'-0" [6.7]	13 1/4" X 16 1/4" [336 X 413]	③	–	–	22'-0" [6.7]	–	22" [559]	22" [559]	2" [51]	2" X 60" [51 X 1524]	16'-0" MAX [4.9] MAX	50'-0" THRU 55'-0" [15.2] [16.8]	50'-0" [15.2]	27'-6" [8.69]
		TYPE IIIC-90-XX-XXXXX-W3724	22'-0" [6.7]	13 1/4" X 16 1/4" [343 X 413]	③	–	–	–	22'-0" [6.7]	22" [559]	22" [559]	2" [51]	2" X 60" [51 X 1524]	16'-0" MAX [4.9] MAX	60'-0" THRU 65'-0" [18.3] [19.8]	50'-0" [15.2]	27'-6" [8.69]

LOADS PER AASHTO 2009:

1.) LOCATION: WASHINGTON STATE
2.) BASIC WIND SPEED: 90 MPH.
3.) DESIGN LIFE: 50 YEARS RECURRENCE INTERVAL
4.) FATIGUE CATEGORY III
5.) GALLOPING LOADS: YES (I_F = 0.30)
6.) TRUCK LOADS: YES (I_F = 0.70)
7.) NATURAL WIND GUSTS: YES (I_F = 0.55)
8.) CAFL AT CRITICAL CONNECTIONS:
POLE TO BASE PLATE CONNECTION:
A. SOCKET DETAIL W/FILLET WELD = E'
B. FULL PENETRATION WELD = E
ARM TO SIMPLEX PLATE CONNECTION:
A. SOCKET DETAIL W/FILLET WELD = E'
B. FULL PENETRATION WELD = E
SIMPLEX GUSSETS = E'
POLE WALL AT SIMPLEX GUSSET = E
POLE SHAFT = B'
SHAFT FULL PENETRATION WELD = 0

– – MAST ARM DATA – –

MAST ARM LENGTH "F"	MAST ARM DIMENSIONS END O.D. X BASE O.D.	MATERIAL BREAKDOWN .120" THK.	.179" THK.	.239" THK.	.3125" THK.	CONN. LOC. "A1"	FLANGE THK "D"	FLANGE THK "I"	BOLT CIRCLE "J"	HHCS SIZE DIAMETER X LENGTH "K"	FLANGE SQ. "L"	PLATE THK "M"	"CUBIC" (ft^3)
20'-0" [6.1]	5 1/4" X 8" [133 X 203]	—	20'-0" [6.1]	—	—	20'-6" [6.2]	1 3/4" [44]	1 3/4" [44]	15 3/4" [400]	1 1/2"-6NC X 4" [1 1/2"-6NC X 102]	15" [381]	5/16" [8]	470
25'-0" [7.6]	4 9/16" X 8" [116 X 203]	5'-0" [1.5]	10'-0" [3.05]	10'-0" [3.05]	—	20'-6" [6.2]	1 3/4" [44]	1 3/4" [44]	15 3/4" [400]	1 1/2"-6NC X 4" [1 1/2"-6NC X 102]	15" [381]	5/16" [8]	680
30'-0" [9.1]	5 1/4" X 9 3/8" [133 X 238]	—	10'-0" [3.05]	20'-0" [6.1]	—	20'-6" [6.2]	1 3/4" [44]	1 3/4" [44]	15 3/4" [400]	1 1/2"-6NC X 4" [1 1/2"-6NC X 102]	15" [381]	5/16" [8]	892
35'-0" [10.7]	4 9/16" X 9 3/8" [116 X 238]	5'-0" [1.5]	10'-0" [3.05]	10'-0" [3.05]	10'-0" [3.05]	20'-6" [6.2]	1 3/4" [44]	1 3/4" [44]	15 3/4" [400]	1 1/2"-6NC X 4" [1 1/2"-6NC X 102]	15" [381]	5/16" [8]	1105
40'-0" [12.2]	5 1/4" X 10 3/4" [113 X 273]	10'-0" [3.05]	10'-0" [3.05]	10'-0" [3.05]	10'-0" [3.05]	20'-6" [6.2]	1 3/4" [44]	1 3/4" [44]	15 3/4" [400]	1 1/2"-6NC X 4" [1 1/2"-6NC X 102]	15" [381]	5/16" [8]	1320
45'-0" [13.7]	4 9/16" X 10 3/4" [116 X 273]	5'-0" [1.5]	10'-0" [3.05]	20'-0" [6.1]	10'-0" [3.05]	20'-6" [6.2]	1 3/4" [44]	1 3/4" [44]	15 3/4" [400]	1 1/2"-6NC X 4" [1 1/2"-6NC X 102]	15" [381]	5/16" [8]	1531
50'-0" [15.2]	5 1/4" X 12 1/8" [113 X 308]	—	10'-0" [3.05]	20'-0" [6.1]	20'-0" [6.1]	20'-6" [6.2]	1 3/4" [44]	1 3/4" [44]	19 1/2" [495]	1 1/2"-6NC X 4" [1 1/2"-6NC X 102]	18 1/2" [470]	3/8" [10]	1744
55'-0" [16.8]	4 9/16" X 12 1/8" [116 X 308]	5'-0" [1.5]	10'-0" [3.05]	20'-0" [6.1]	20'-0" [6.1]	20'-6" [6.2]	1 3/4" [44]	1 3/4" [44]	19 1/2" [495]	1 1/2"-6NC X 4" [1 1/2"-6NC X 102]	18 1/2" [470]	3/8" [10]	1957
* 60'-0" [18.3]	6 5/8" X 14 7/8" [168 X 378]	—	20'-0" [6.1]	20'-0" [6.1]	20'-0" [6.1]	20'-0" [6.1]	1 3/4" [44]	1 3/4" [44]	20" [508]	1 1/2"-6NC X 4" [1 1/2"-6NC X 102]	20" [508]	3/8" [10]	2666
* 65'-0" [19.8]	5 15/16" X 14 7/8" [151 X 378]	—	15'-0" [4.6]	20'-0" [6.1]	30'-0" [9.1]	20'-0" [6.1]	1 3/4" [44]	1 3/4" [44]	20" [508]	1 1/2"-6NC X 4" [1 1/2"-6NC X 102]	20" [508]	3/8" [10]	2932

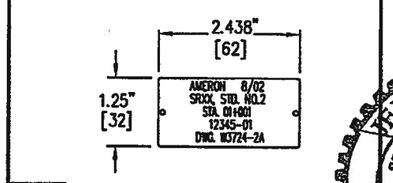
* SEE NOTE 4

TYPE "T" LUMINAIRE ARM DATA

ARM LENGTH "C"	"T" LUM DIMENSIONS END O.D. X BASE O.D. X THK.	RADIUS "R1"	RADIUS "R2"	RISE
6'-0" [1.8]	2 3/8" X 4" X .120" [60 X 102 X 3]	7'-5" [2.3]	1'-0" [0.3]	3'-0" [0.9]
8'-0" [2.4]	2 3/8" X 4" X .120" [60 X 102 X 3]	7'-5" [2.3]	1'-0" [0.3]	4'-0" [1.2]
10'-0" [3.0]	2 3/8" X 4" X .120" [60 X 102 X 3]	7'-5" [2.3]	1'-0" [0.3]	5'-0" [1.5]
12'-0" [3.7]	2 3/8" X 4 1/2" X .120" [60 X 114 X 3]	7'-5" [2.3]	1'-0" [0.3]	6'-6" [2.0]
14'-0" [4.3]	2 3/8" X 4 1/2" X .120" [60 X 114 X 3]	7'-5" [2.3]	1'-0" [0.3]	7'-6" [2.3]
16'-0" [4.9]	2 3/8" X 4 1/2" X .120" [60 X 114 X 3]	7'-5" [2.3]	1'-0" [0.3]	8'-9" [2.7]

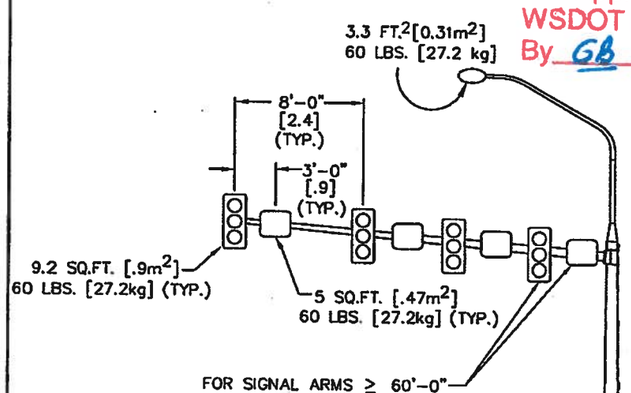
NOTES:

1.) TAG MOUNTED W/ (2) DRIVE SCREWS.
2.) MOUNT BOTTOM OF TAG 0'-6" ABOVE TOP OF HAND HOLE. MOUNT (1 ea.) 6" FROM FLANGE PLATE ON ARM & 6" PAST CONNECTION IN DETS. "I" OR "J".
3.) MANUFACTURER MONTH/YEAR = AMERON MM/YY
STATE RT., POLE NO.= XXXXX
STATION NO. = STA. XX+XXX
PART NO. = XXXXX-XX
DRAWING NO. = DWG. W3724-2X

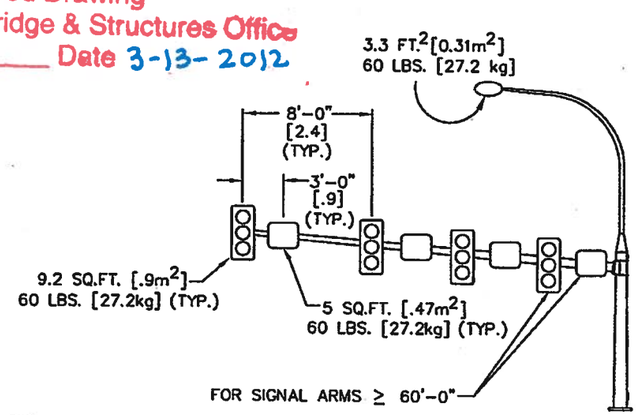


DETAIL "J" I.D. TAG DETAIL

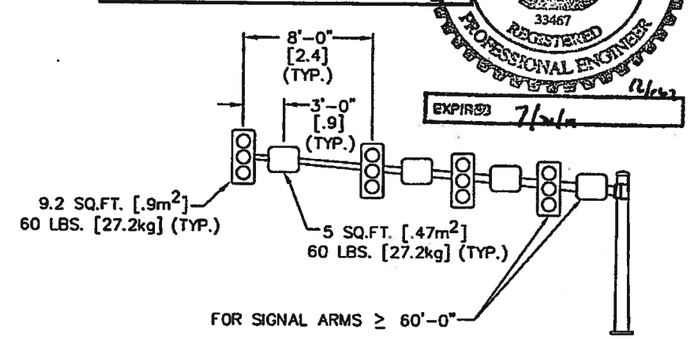
APPROVED
Manufacturer's Pole Plan
Approved For Listing As A
Pre-Approved Drawing
WSDOT Bridge & Structures Office
By GB Date 3-13-2012



TYPE III SERIES "T"



TYPE III SERIES "J"



TYPE II SERIES

DESIGN LOAD CASE FOR AASHTO 2001 90 M.P.H. WIND LOADING

JEFF L. GRIFFIN
STATE OF WASHINGTON
33467
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 7/24/12

MATERIAL LIST

QTY.	DESCRIPTION

AGENCY	WSDOT
PROJECT	
DISTRIBUTOR	
CONTRACTOR	
CUSTOMER ORDER NO.	
AMERON NO.	

REV	DATE	DESCRIPTION	BY	APPR
G	12/11	ADDED TYPE IIIC POLE & REV. DESIGN CRITERIA	GM	JB
F	3/08	REV. LOAD NOTES, "J" DIM. & 65FT SMA CUBICS	BB	GM
E	2/07	CHG. ARM BOLT LG.	JB	GM
D	9/04	CHANGED "M" DIMENSION	MHM	JB
C	11/02	POLE DESCRIPTION	MHM	RD
B	9/02	PER WA. D.O.T. REQUEST	MHM	RD
A	8/02	PER WA. D.O.T. REQUEST	MHM	RD

Ameron POLE PRODUCTS DIVISION

STATE OF WASHINGTON
TYPE II AND III SERIES

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DRAWN: MHM	DATE: 6/02	SCALE N.T.S.	DWG.NO.	REV.
APPR: JB	DATE: 6/02	SHT 2 OF 2	W3724-2	G