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ZONE 5 (120 MPH) SPECIAL WIND ZONE

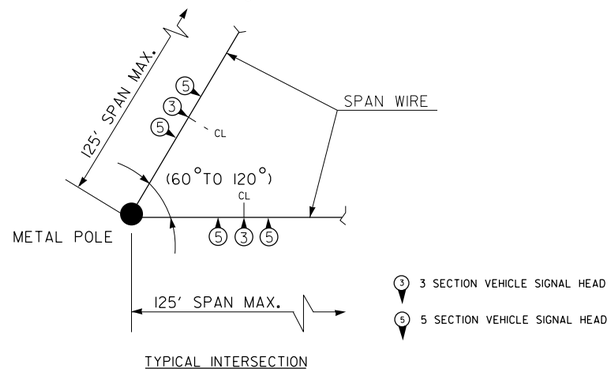
PROJECT ID. NO.	SHEET NO.
DN12132102	Sig.SP 12

LIGHT LOADING

(FOR ONE POLE AND ONE FOUNDATION)

CASE No.	POLE HEIGHT IN (FT.)	METAL POLE		BASE PLATES			ANCHOR BOLTS		CONCRETE FOOTING		
		WALL THICKNESS TH GAGE,(IN)	BASE DIAMETER (IN.)	D (IN.)	BC (IN.)	T (IN.)	NO. OF BOLTS	DIAMETER X TOTAL LENGTH (IN.)	DIAMETER d (IN.)	DEPTH L (FT.)	VOLUME (CU. YDS.)
S26L2	26	0.3125	16	29	23	2	8	2 X 60	48	*	*
S30L2	30	0.3125	17	29	23	2	8	2 X 60	48	*	*
S35L2	35	0.375	17	29	23	2	8	2 X 60	48	*	*

*SEE NOTE 1 AND 2 "SOIL TESTING AND STANDARD SOIL FOUNDATIONS" ON SHEET Sig.SP2 OF THE STANDARD NOTES.



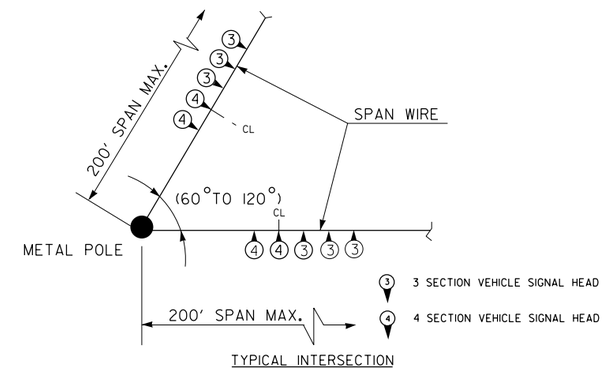
TYPICAL INTERSECTION

HEAVY LOADING

(FOR ONE POLE AND ONE FOUNDATION)

CASE No.	POLE HEIGHT IN (FT.)	METAL POLE		BASE PLATES			ANCHOR BOLTS		CONCRETE FOOTING		
		WALL THICKNESS TH GAGE,(IN.)	BASE DIAMETER (IN.)	D (IN.)	BC (IN.)	T (IN.)	NO. OF BOLTS	DIAMETER X TOTAL LENGTH (IN.)	DIAMETER d (IN.)	DEPTH L (FT.)	VOLUME (CU. YDS.)
S30H2	30	0.3125	21	35	29	2	12	2 X 60	48	*	*
S35H2	35	0.375	21	35	29	2	12	2 X 60	48	*	*

*SEE NOTE 1 AND 2 "SOIL TESTING AND STANDARD SOIL FOUNDATIONS" ON SHEET Sig.SP2 OF THE STANDARD NOTES.



TYPICAL INTERSECTION

METAL STRAIN POLES

COUNTY WIND ZONE 5

120 mph /58 m/s

ASHE
AVERY
WATAUGA
MADISON
MITCHELL
YANCEY
CHEROKEE
GRAHAM
HAYWOOD
SWAIN

Prepared in the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
ITS and Signals Unit
750 N.Greenfield Pkwy,Garner,NC 27529

Designed in conformance with the latest 2015 Interim to the 6th Edition 2013
AASHTO
Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals

WIND ZONE 5
LOAD CASE AND DESIGN
DETAILS

PLAN DATE:	JUNE 2016	DESIGNED BY:	K.C.DURIGON
PREPARED BY:	N. BITTING	REVIEWED BY:	D.C. SARKAR

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 028094 ENGINEER DEBESH C. SARKAR

DocuSigned by:
Debesh C Sarkar
SIGNATURE
8/2/2016
DATE

19-JUL-2016 16:12
S:\ITS&SU\ITS Signals\Workgroups\Structures\Drawings\2016 NEW Statewide Standards-ALL METAL POLES\2016-STD STRAIN POLE, Sig. SP 1-12\2016 Sig.SP 12 STD Strain Pole WZ 5.dgn
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