

HIGH MAST
POLE ELEVATION
NOT TO SCALE

ANCHOR BOLTS					
POLE HEIGHT (ft)	POLE DIAMETER (in)	BOLT DIAMETER (in)	BOLT LENGTH (in)	NUMBER OF BOLTS	BOLT CIRCLE DIAMETER (in)
75	18	2	72	6	29
100	20	2	72	6	31
120	22	2	72	8	33
150	26	2	72	8	37

HIGH MAST: COHESIVE SOIL										
HEIGHT (ft)	DRILLED SHAFT DIAMETER 'D' (in)	DRILLED SHAFT LENGTH 'L' (ft)	A-BARS			B-BARS			ESTIMATED QUANTITIES	
			SIZE	NO.	LENGTH	SIZE	NO.	LENGTH	CONCRETE (cu. yd.)	EXCAVATION (cu. yd.)**
75	48	18	#8	24	17'-6"	#4	36	12'-6"	8.4	1422
100	48	20	#8	24	19'-6"	#4	40	12'-6"	9.4	1584
120	54	22	#8	28	21'-6"	#4	44	14'-0"	13.0	2019
150	54	26	#8	28	25'-6"	#4	52	14'-0"	15.4	2393

HIGH MAST: NON-COHESIVE SOIL										
HEIGHT (ft)	DRILLED SHAFT DIAMETER 'D' (in)	DRILLED SHAFT LENGTH 'L' (ft)	A-BARS			B-BARS			ESTIMATED QUANTITIES	
			SIZE	NO.	LENGTH	SIZE	NO.	LENGTH	CONCRETE (cu. yd.)	EXCAVATION (cu. yd.)**
75	48	14	#8	24	13'-6"	#4	28	12'-6"	6.6	1099
100	48	16	#8	24	15'-6"	#4	32	12'-6"	7.5	1261
120	54	18	#8	28	17'-6"	#4	36	14'-0"	10.6	1645
150	54	20	#8	28	19'-6"	#4	40	14'-0"	11.8	1832

HIGH MAST: ROCK										
HEIGHT (ft)	DRILLED SHAFT DIAMETER 'D' (in)	DRILLED SHAFT LENGTH 'L' (ft)*	A-BARS			B-BARS			ESTIMATED QUANTITIES	
			SIZE	NO.	LENGTH	SIZE	NO.	LENGTH	CONCRETE (cu. yd.)	EXCAVATION (cu. yd.)**
75	48	12	#8	24	11'-6"	#4	24	12'-6"	5.6	938
100	48	12	#8	24	11'-6"	#4	24	12'-6"	5.6	938
120	54	14	#8	28	13'-6"	#4	28	14'-0"	8.3	1271
150	54	14	#8	28	13'-6"	#4	28	14'-0"	8.3	1271

DRILLED SHAFT LENGTH 'L' IS MEASURED AS THE LENGTH OF SHAFT IN SOIL.

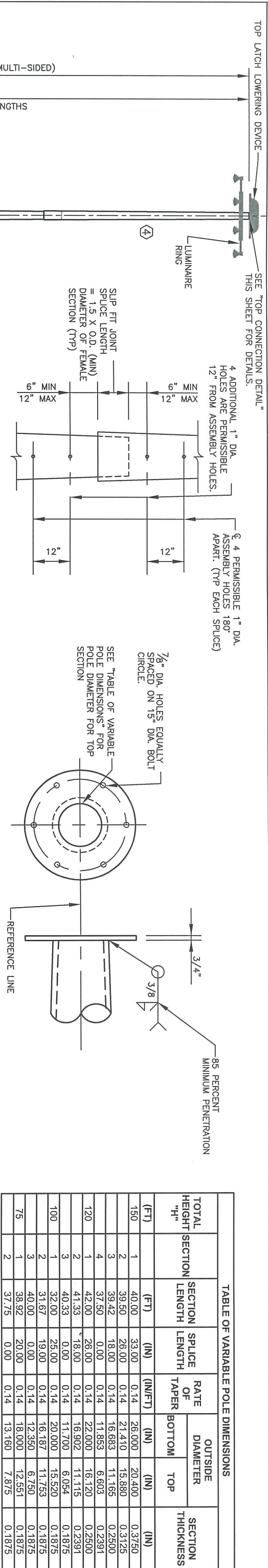
* DRILLED SHAFT LENGTH 'L' IN ROCK IS BASED ON UNWEATHERED ROCK CONDITION. IF WEATHERED ROCK IS ENCOUNTERED, THE CAPACITY OF WEATHERED ROCK SHOULD BE NEGLECTED.

** FOR CONTRACTOR'S INFORMATION ONLY.

- NOTES:**
- CONCRETE SHALL CONFORM TO SECTION 510 - PORTLAND CEMENT CONCRETE. CONCRETE IS TO BE CLASS "G", $f'_c = 3000$ PSI.
 - REINFORCING STEEL (REBAR) SHALL CONFORM TO SECTION 540 - STEEL REINFORCEMENT AASHTO M-31 (ASTM A 615), GRADE 60. DIMENSIONS REFER TO THE CENTERLINE OF BARS.
 - ANCHOR BOLTS SHALL CONFORM TO AASHTO M-314 (ASTM F 1554 GRADE 55). PROVIDE A HEX NUT, LEVELING NUT AND 2 WASHERS TOP AND BOTTOM OF EACH BOLT. ANCHOR BOLTS SHALL BE CONSIDERED INCIDENTAL TO THE FOUNDATIONS.
 - CONCRETE IS TO BE PLACED IN DRILLED HOLES. DUE TO EXISTING SOIL CONDITIONS THE USE OF A HOLE CASING MAY BE REQUIRED. THE CASING SHALL BE PULLED AS THE CONCRETE IS PLACED WITH A 6" MINIMUM OVERLAP.
 - FOUNDATION DESIGN IS FOR THE HIGH MAST STANDARD DIAMETERS. IF A LARGER DIAMETER IS FURNISHED, THE CONTRACTOR SHALL BUILD A LARGER FOUNDATION AS DETERMINED NECESSARY BY THE BRIDGE ENGINEER AND NO ADDITIONAL PAYMENT OR COMPENSATION SHALL BE MADE.
 - ALTERNATE DESIGNS FOR STANDARD FOUNDATIONS TO BE SUBMITTED TO THE BRIDGE ENGINEER FOR APPROVAL.
 - THE FOLLOWING SOIL DESIGN PARAMETERS WERE ASSUMED FOR THE POLE FOUNDATION DESIGN:
 - COHESIVE SOIL:
SOIL UNIT WEIGHT $\gamma = 100$ lb/ft³
SOIL COHESION $c = 400$ lb/ft²
SOIL STRAIN $\epsilon_{50} = 0.02$
THIS DESCRIPTION WOULD APPLY WHERE SOFT TO STIFF CLAY SOILS EXIST.
 - NON-COHESIVE SOIL:
SOIL UNIT WEIGHT $\gamma = 120$ lb/ft³
INTERNAL FRICTION ANGLE $\phi = 15^\circ$
SOIL MODULUS $K = 90$ lb/in³
THIS DESCRIPTION WOULD APPLY WHERE LOOSE TO MEDIUM DENSE SANDY SOILS EXIST.
 - ROCK
ROCK UNIT WEIGHT $\gamma = 140$ lb/ft³
ROCK UNCONFINED STRENGTH $S_u = 21,600$ lb/ft²
THIS DESCRIPTION WOULD APPLY WHERE FAIR ROCK TO VERY GOOD ROCK EXISTS.
- EVALUATE SOIL CONDITIONS TO DETERMINE WHICH SOIL DESIGN PARAMETERS BEST MATCHES SITE CONDITIONS. PROVIDED DESIGN IS LIMITED TO THE NOTED PARAMETERS.
- SHOULD THE SOIL CONDITIONS VARY IN SIGNIFICANT CONTRAST TO ANY OF THOSE DESCRIBED IN a, b OR c ABOVE, THE STATE GEOTECHNICAL ENGINEER SHALL BE CONSULTED FOR APPROVAL OF ANY REQUIRED REMEDIAL MEASURES BEFORE THE FOUNDATION PLACEMENT.
- ALL HOLES FOR FOUNDATION SHAFTS SHALL BE POURED AGAINST UNDISTURBED EARTH. IF SHAFT IS NOT LOCATED IN UNDISTURBED SOILS THEN ALL SOILS THE SHAFT IS PLACED INTO SHALL BE COMPACTED TO 95% MINIMUM.
 - FINISHED GRADE FOR ALL FOUNDATIONS TO BE DETERMINED BY THE PROJECT ENGINEER. THE TOP OF STANDARD FOUNDATIONS SHALL BE FLUSH WITH ADJACENT SIDEWALK OR PAVED AREAS WHEN PRESENT AND SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT.
 - PVC CONDUIT SHALL BE CALLED OUT IN SHOP DRAWINGS USING A MINIMUM 3" CONDUIT PIPE OR AS REQUIRED BY THE HIGH MAST MANUFACTURER.
 - ALL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS AS REQUIRED BY THE HIGH MAST MANUFACTURER. PLACEMENT AND INSTALLATION OF GROUND RODS SHALL BE SHOWN WITH SHOP DRAWINGS AND SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE FOUNDATION.



NO.	DATE	REV. BY	DESCRIPTION
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING			
HIGH MAST LIGHTING POLE FOUNDATION DETAILS			
DESIGNED BY <u>AYB</u> DRAWN BY <u>BDC</u> CHECKED BY <u>JSM</u>			
707L-08-7/7			

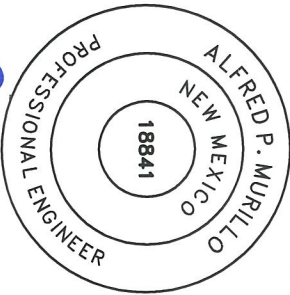


SLIP JOINT DETAIL

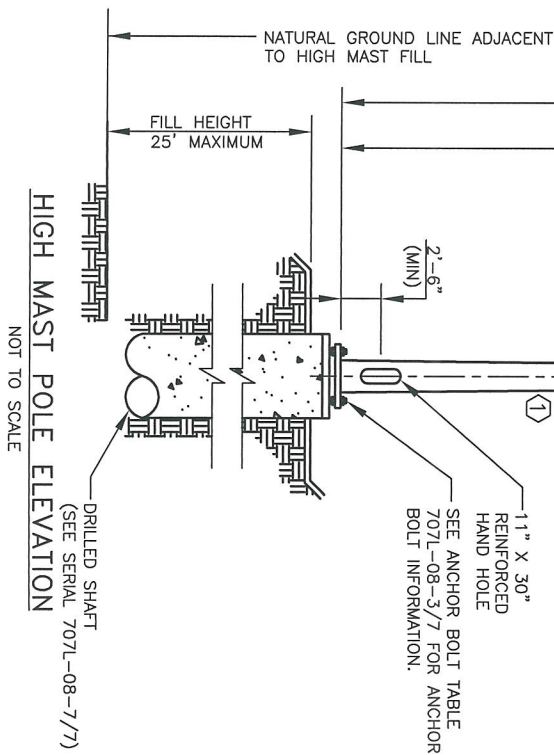
TOP CONNECTION DETAIL

GENERAL NOTES:

- DESIGN CONFORMS TO 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, WITH REVISIONS UP TO AND INCLUDING 2006 INTERIMS.
- DESIGN CRITERIA:
REQUIRENCE INTERVAL = 50 YRS
SERVICE LIFE = 50 YRS
DESIGN WIND SPEED = 90 MPH
GUST EFFECT FACTOR = 1.14
FATIGUE CATEGORY I
MATERIALS (POLES AND HAND HOLES): 55,000 PSI MINIMUM YIELD
MAXIMUM NUMBER OF LUMINAIRES IS EIGHT (8). MAXIMUM WEIGHT OF EACH LUMINAIRE IS 85 LBS, WITH A PROJECTED AREA OF 3.4 FT².
MAXIMUM ALLOWABLE DEFLECTION = 9% OF POLE HEIGHT.
- WORKMANSHIP AND MATERIALS SHALL CONFORM TO NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT) STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION CURRENT EDITION. CONTRACTOR SHALL CONTACT NMDOT FOR APPROVED PRODUCTS LISTING.
- POLES SHALL CONSIST OF ROUND TELESCOPING SECTIONS, TAPERED AT A RATE OF 0.14"/FOOT. MULTI-SIDED SECTIONS WILL BE PERMITTED AS AN ALTERNATE DESIGN. SEE NOTE 9 FOR REQUIREMENTS.
- MATERIALS:
A. POLES SHALL BE STEEL OF 50 KSI MINIMUM YIELD STRENGTH AFTER FABRICATION.
B. BASE PLATES AND ANCHOR BOLT TEMPLATES SHALL BE PER AASHTO M-183 (ASTM A-36).
C. HARDWARE AND ANCHOR BOLTS SHALL BE PER AASHTO M-314 (ASTM F-1554), GR. 55. EACH BOLT SHALL BE SUPPLIED WITH A MINIMUM OF THREE HEAVY HEX NUTS AND TWO FLAT WASHERS. STEEL BOLT TEMPLATES SHALL BE SUPPLIED WITH ANCHOR BOLTS. NUTS SHALL BE ASTM A-563. WASHERS SHALL BE ASTM A-436.
D. PRELOAD BOLTS BASED ON BOLT TYPE AND DIAMETER. PROVIDE LOCKING ADHESIVE (ND INDUSTRIES, NITLOCK, LOCKTITE, OR APPROVED EQUAL).
- GALVANIZING:
A. POLES AND PLATES SHALL BE GALVANIZED PER AASHTO M-111-94 (ASTM A-123).
B. HARDWARE AND ANCHOR BOLTS SHALL BE HOT-DIPPED GALVANIZED PER AASHTO M-232 M (ASTM A-153).
- WELDS:
ALL FABRICATORS SHALL BE CERTIFIED UNDER NMDOT SPECIFICATION SECTION 541.3 "CERTIFICATION OF STEEL FABRICATORS", AND SHALL CONFORM TO THE LATEST EDITION OF THE STRUCTURAL WELDING CODE (ANSI/AWS D1.1) AND SHALL CONFORM TO SECTION 707 "SIGNAL AND LIGHTING STANDARDS" OF THE CURRENT NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT) STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS OR MEET THE DATA SHOWN ON THESE DRAWINGS.
FILET WELD AT BOTTOM OF SLIP FIT JOINT SHALL BE MINIMUM SIZE PER AWS D1.1.
- THE CONTRACTOR/FABRICATOR SHALL FURNISH EIGHT SETS OF SHOP DRAWINGS OF ALL HIGH MAST LUMINAIRE SUPPORT STRUCTURE COMPONENTS FOR THE TYPE VI LIGHTING STANDARD TO THE STATE BRIDGE ENGINEER FOR APPROVAL. SHOP DRAWINGS SHALL COVER ALL MECHANISMS/PARTS REQUIRED FOR THE INSTALLATION. THE CONTRACTOR SHALL FURNISH AN APPROPRIATE CERTIFICATION OF COMPLIANCE WITH ALL DESIGN REQUIREMENTS. THE CONTRACTOR'S CERTIFICATION SHALL APPEAR ON THE DRAWINGS. THE CONTRACTOR MUST RECEIVE WRITTEN APPROVAL OF THE SHOP DRAWINGS FROM THE ENGINEER PRIOR TO BEGINNING FABRICATION OR ASSEMBLY OF PARTS.
- THE INFORMATION AND DETAILS PROVIDED FOR POLES, ANCHOR BOLTS, HAND HOLE, AND FOUNDATIONS IN THESE STANDARDS ARE MINIMUM REQUIREMENTS. DESIGN AND DETAILS FOR ALTERNATE DESIGNS AND ALL OTHER LUMINAIRE SUPPORT STRUCTURE COMPONENTS SUCH AS TOP CONNECTION PLATE, SPECIFIC REQUIREMENTS FOR HAND HOLES TO ACCOMMODATE EXTERNAL WINCH, HEADFRAME ASSEMBLY, LUMINAIRE RING ASSEMBLY, AND TOP LATCH LOWERING DEVICE SHALL BE PROVIDED BY CONTRACTOR/FABRICATOR IN COMPLIANCE WITH AASHTO SPECIFICATIONS REFERENCED IN NOTE 1 AND ALL OTHER GOVERNING ELECTRICAL AND MECHANICAL SPECIFICATIONS.
- THE TOP CONNECTION DETAIL MAY BE REVISED TO COMPLY WITH THE REQUIREMENTS OF THE TOP LATCH LOWERING DEVICE SYSTEM. THE REVISED TOP CONNECTION DETAIL SHALL BE SUBMITTED TO NMDOT FOR REVIEW AND APPROVAL AS PART OF THE DESIGN FOR THE TOP LATCH LOWERING DEVICE SYSTEM.
- ALL TYPE VI STANDARDS SHALL BE EQUIPPED WITH AN INTERNAL MOTOR ASSEMBLY WITH 20' REMOTE CONTROL FOR THE LOWERING DEVICE. LOWERING DEVICES SHALL BE TOP LATCH AS APPROVED BY LIGHTING DESIGN ENGINEER. THE INTERNAL MOTOR ASSEMBLY AND LOWERING DEVICE WILL BE SUBSIDIARY TO THE HIGH MAST POLE PAY ITEM.
- THE LOWERING DEVICE, LIGHTING FIXTURES AND POLES SHALL BE MANUFACTURED AND TESTED AS AN INTEGRATED SYSTEM AND BE PROVIDED AND WARRANTED BY THE MANUFACTURER.
- FACTORY REPRESENTATIVE SHALL PROVIDE ONE DAY TRAINING AND VIDEO TAPE ON OPERATING THE LOWERING DEVICE SYSTEM FOR THE LOCAL MAINTAINING AGENCY AND LOCAL POWER COMPANY. THIS TRAINING SHALL BE APPROXIMATELY ONE-HALF IN THE CLASSROOM AND ONE-HALF IN THE FIELD.
- APPROXIMATELY 90 DAYS AFTER INSTALLATION, A FACTORY REPRESENTATIVE SHALL RETURN TO THE PROJECT SITE TO ADJUST THE LOWERING DEVICE CABLES AND LIGHTING MECHANISMS. THE CONTRACTOR SHALL COORDINATE WITH THE NMDOT LIGHTING ENGINEER, THE LOCAL MAINTENANCE AGENCY, AND THE LOCAL POWER COMPANY TO BE PRESENT WHILE THE ADJUSTMENTS ARE MADE.
- DURING THE ERECTION OF THE HIGH MAST LIGHTING POLES AND LOWERING DEVICES, A FACTORY REPRESENTATIVE SHALL BE PRESENT TO ENSURE CORRECT ERECTION.
- CONTRACTOR SHALL PROVIDE COPIES OF ALL HIGH MAST LIGHTING SYSTEM TECHNICAL DATA, CALCULATIONS, SHOP DRAWINGS, AND LUMINAIRE TYPE INFORMATION TO THE LOCAL MAINTAINING AGENCY AND THE LOCAL POWER COMPANY.
- THE DESIGN PROVIDED FOR THIS STANDARD MUST BE RE-EVALUATED FOR POLES LOCATED IN ELEVATED REGIONS AND POLES LOCATED IN SPECIAL WIND REGIONS EXCEEDING THE DESIGN CRITERIA PROVIDED IN THESE STANDARDS.
- CONTRACTOR/POLE FABRICATOR SHALL SUBMIT GROUNDING DETAILS FOR REVIEW AND APPROVAL.
- ALL DESIGNS SUBMITTED FOR APPROVAL MUST BE SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF NEW MEXICO.



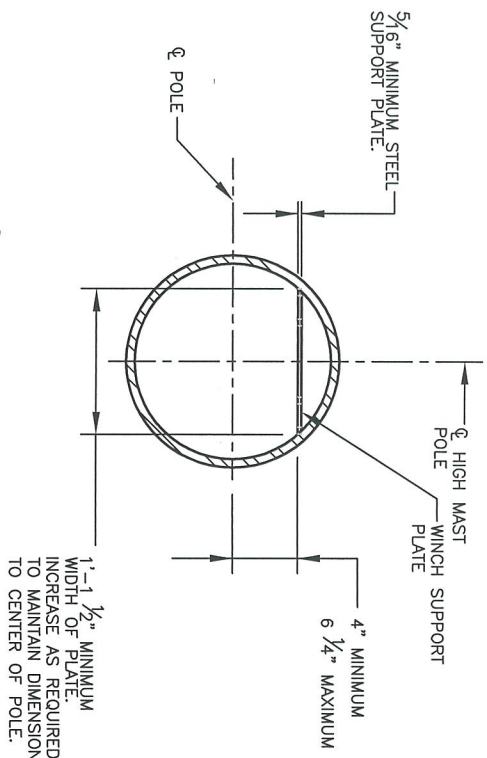
Alfred P. Murillo
12-15-08



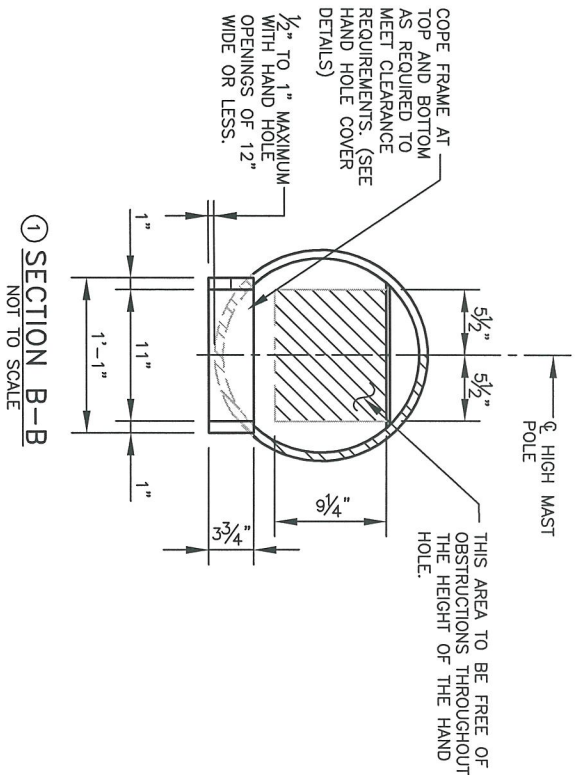
NEW MEXICO
DEPARTMENT OF TRANSPORTATION
STANDARD DRAWING

HIGH MAST LUMINAIRE
SUPPORT STRUCTURES
TYPE VI

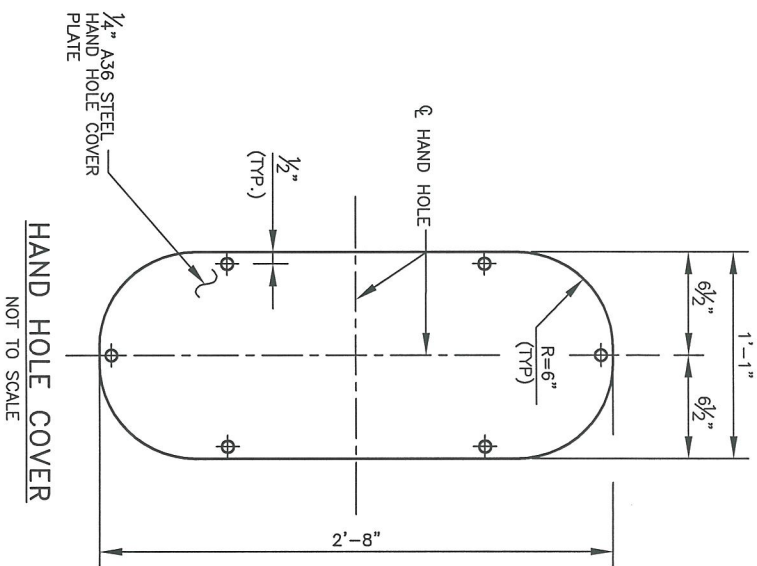
DESIGNED BY NB/MS DRAWN BY CCS CHECKED BY APM
707L-08-1/7



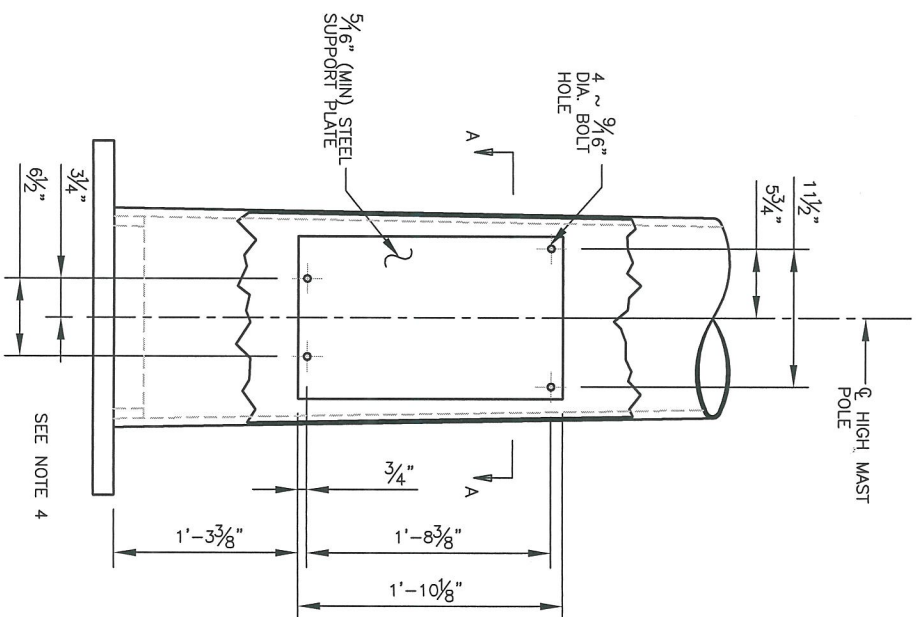
① SECTION A-A
NOT TO SCALE



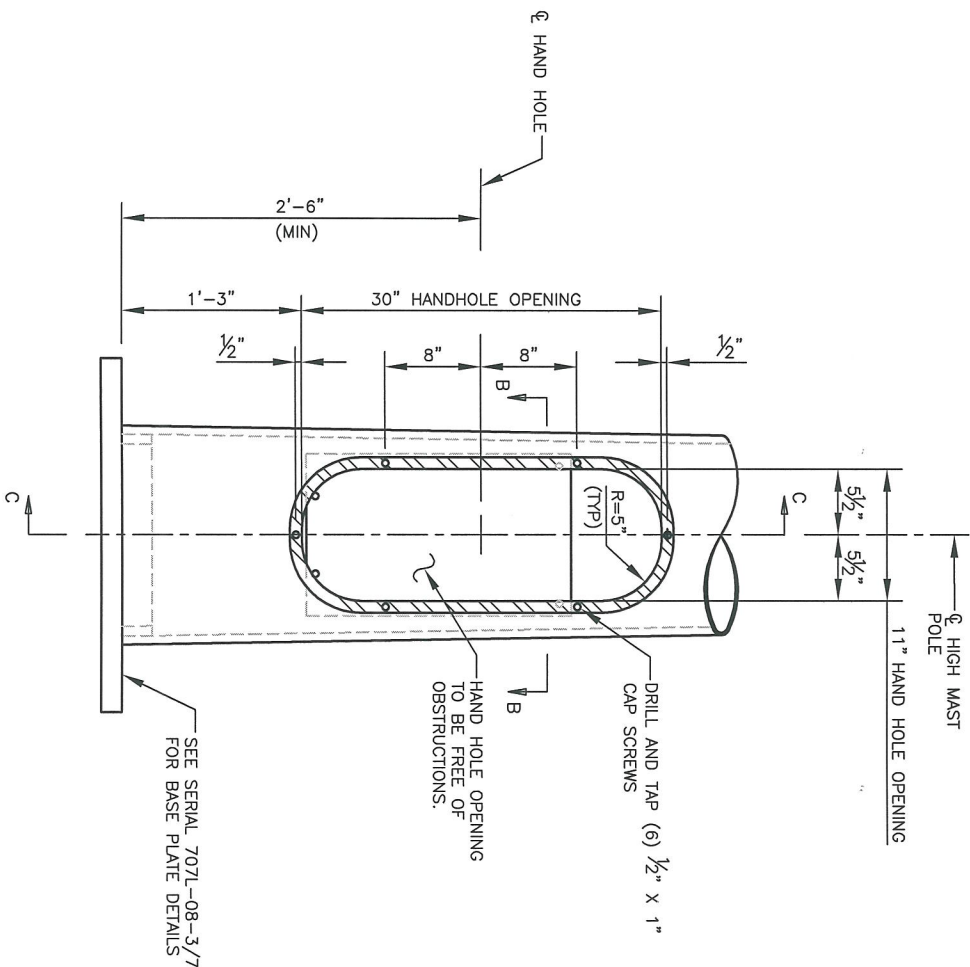
① SECTION B-B
NOT TO SCALE



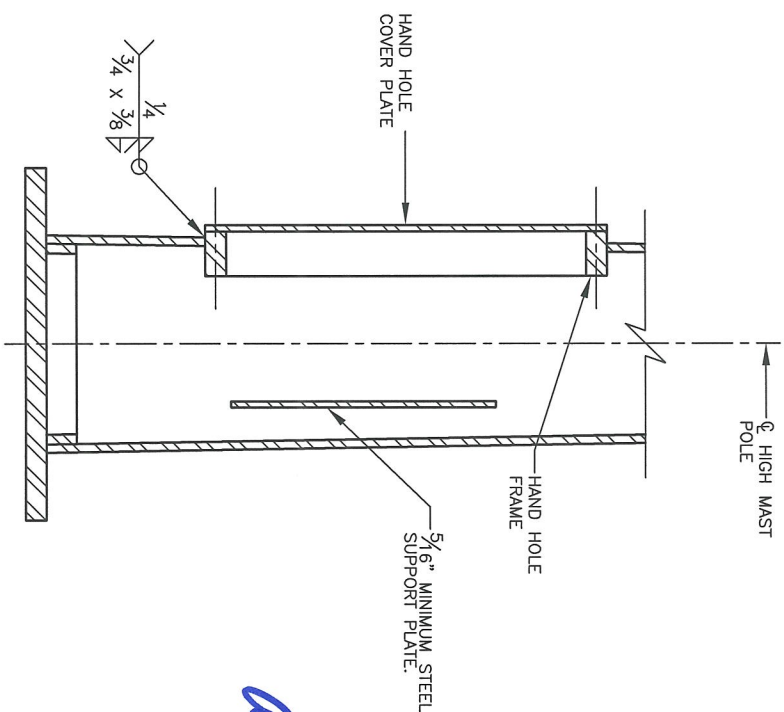
HAND HOLE COVER
NOT TO SCALE



WINCH SUPPORT PLATE DETAIL
NOT TO SCALE



HAND HOLE DETAIL
NOT TO SCALE

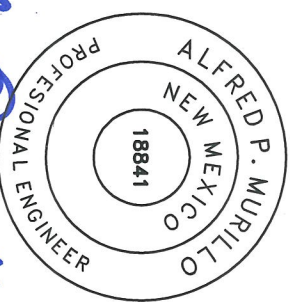


SECTION C-C
NOT TO SCALE

- NOTES:
- POLES SHALL BE FREE OF INTERNAL AND EXTERNAL OBSTRUCTIONS WHICH WOULD INTERFERE WITH WIRE ROPES, CORD, OR THE PROPER OPERATION OF ANY OTHER ELECTRICAL OR MECHANICAL COMPONENT.
 - HAND HOLE COVER SHALL BE FABRICATED FROM 1/4" A36 STEEL PLATE OR MAY BE HINGED WITH A SUITABLE METHOD OF CLOSURE. POLE CONTRACTOR/FABRICATOR SHALL SUBMIT DRAWINGS TO NMDOT FOR REVIEW AND APPROVAL FOR ANY ADDITIONAL OPENINGS WITHIN COVER PLATE TO ACCOMMODATE SPECIFIC INTERNAL AND EXTERNAL WINCH REQUIREMENTS.
 - HAND HOLE COVER PLATES SHALL BE GALVANIZED PER ASTM A-123.
 - INFORMATION AND DETAILS PROVIDED FOR WINCH SUPPORT PLATE AND MINIMUM CLEARANCES MAY BE REVISED ACCORDINGLY TO CONFORM WITH REQUIREMENTS FOR THE SPECIFIC WINCH SPECIFIED FOR THE PROJECT. SEE PROJECT DEVELOPMENT PLANS AND DETAILS FOR WINCH AND EXTERNAL DRIVE ASSEMBLY REQUIREMENTS.

① BASE PLATE NOT SHOWN FOR CLARITY.

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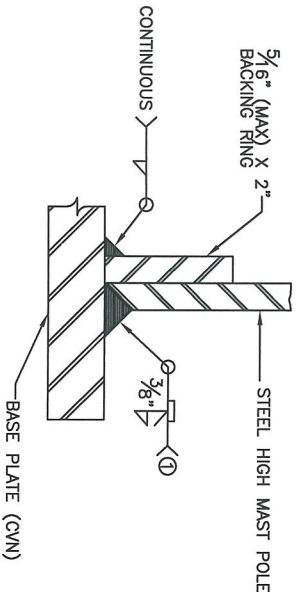
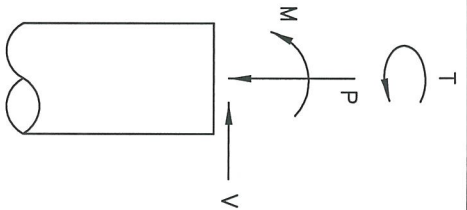
NO.	DATE	REV. BY	DESCRIPTION

NEW MEXICO
DEPARTMENT OF TRANSPORTATION
STANDARD DRAWING

HIGH MAST LUMINAIRE
SUPPORT STRUCTURES
TYPE VI

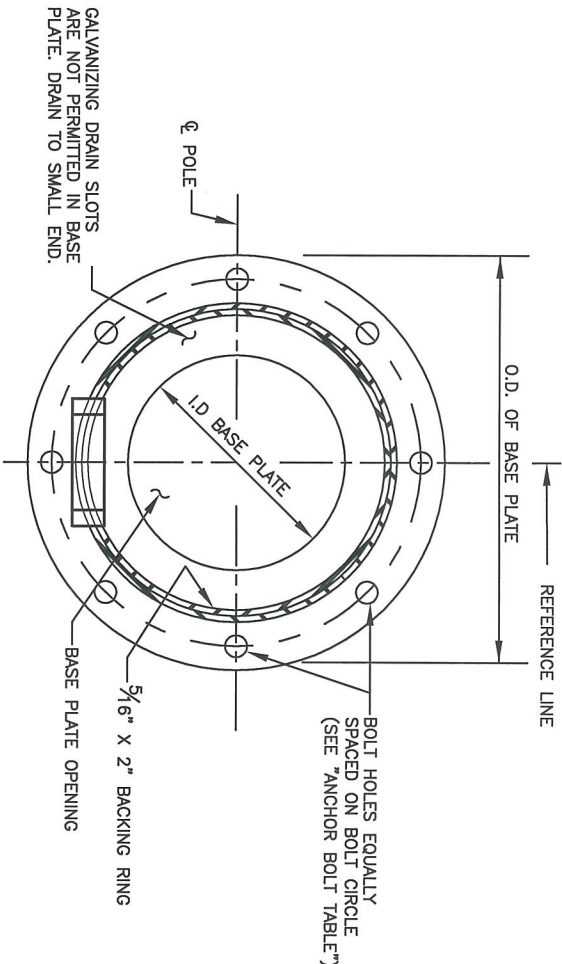
DESIGNED BY NB/MS DRAWN BY CCS CHECKED BY APM
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SERVICE LOADS AT TOP OF DRILLED SHAFT				
TOTAL HEIGHT	AXIAL LOAD *P*	SHEAR *V*	MOMENT *M*	TORSION *T*
(FT)	(KIP)	(KIP)	(KIP-FT)	(KIP-FT)
150	10.85	3.22	273.76	1.09
120	6.86	2.47	178.84	1.05
100	5.16	2.03	128.94	1.02
75	3.94	1.54	78.98	0.97

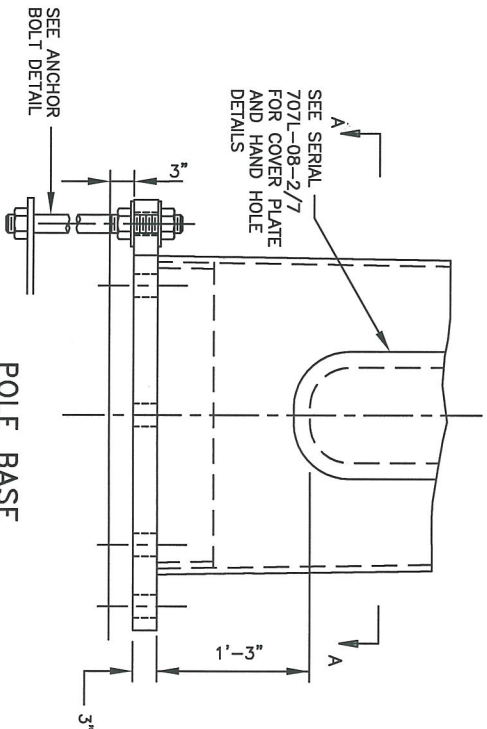


WELD DETAIL
NOT TO SCALE

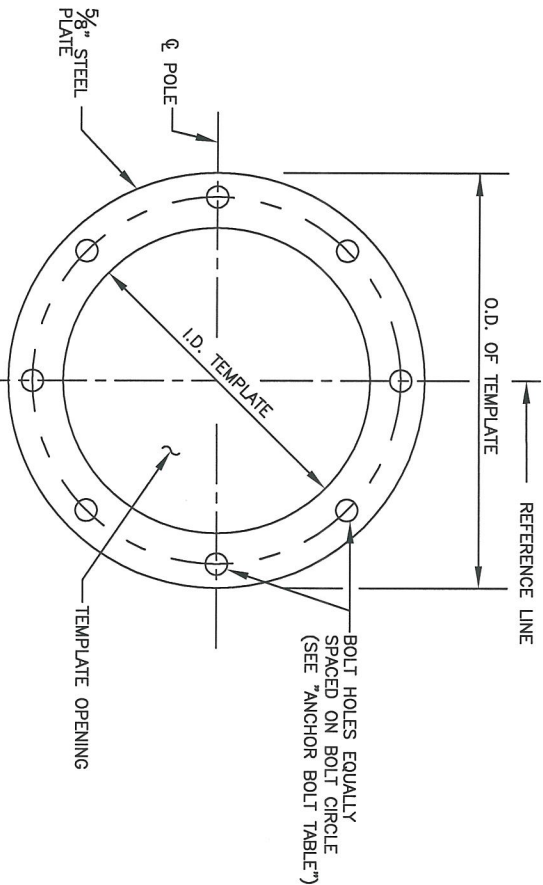
NOTE:
BACKING RING MUST BE FITTED/SIZED
TO THE STEEL POLE AND CONTINUOUSLY
FILLET WELDED TO THE BASE PLATE
BEFORE FULL PENETRATION GROOVE WELD
IS MADE.



SECTION A-A
NOT TO SCALE



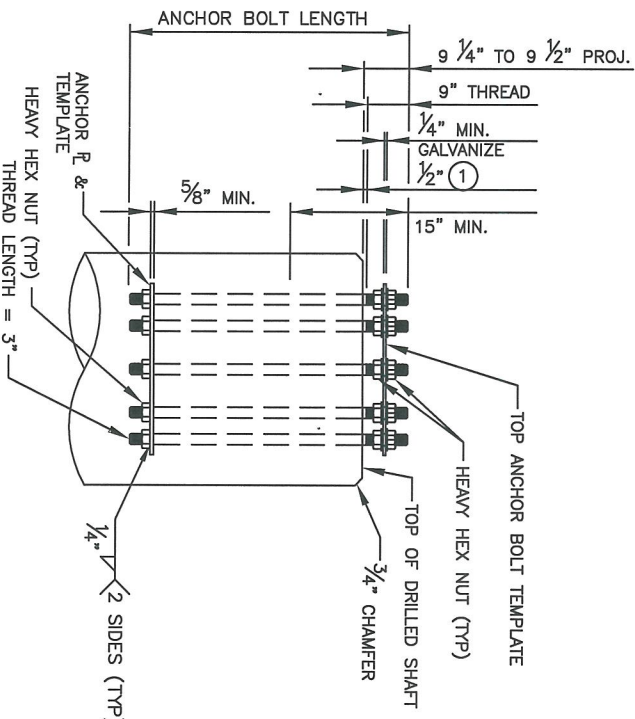
POLE BASE
ELEVATION
NOT TO SCALE



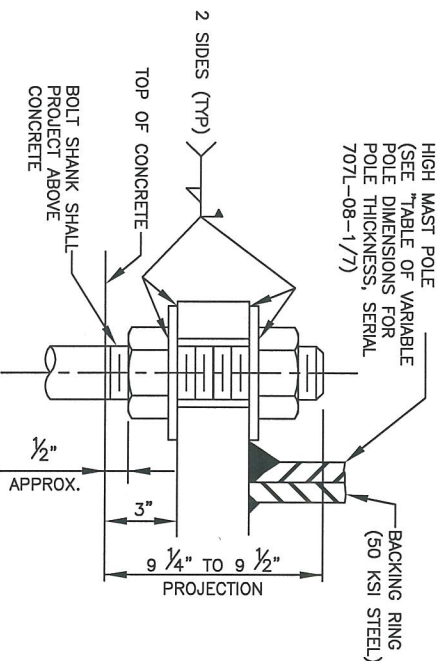
ANCHOR BOLT AND ANCHOR PLATE TEMPLATE
NOT TO SCALE

ANCHOR BOLT TABLE									
POLE HEIGHT	POLE DIAMETER	BOLT DIAMETER	BOLT LENGTH	NUMBER OF BOLTS	BOLT CIRCLE DIAMETER	BASE PLATE		BOLT TEMPLATE	
	O.D.					O.D.	I.D.	O.D.	I.D.
FT	IN	IN	IN		IN	IN	IN	IN	IN
150	26	2	72	8	37	43	16	41.5	32.5
120	22	2	72	8	33	39	16	37.5	28.5
100	20	2	72	6	31	37	16	35.5	26.5
75	18	2	72	6	29	35	16	33.5	24.5

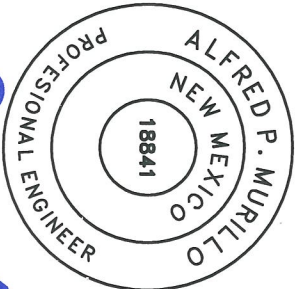
① BOLT SHANK PROJECTION ABOVE CONCRETE.



ANCHOR BOLT ASSEMBLY
NOT TO SCALE
(SEE ANCHOR BOLT TABLE)

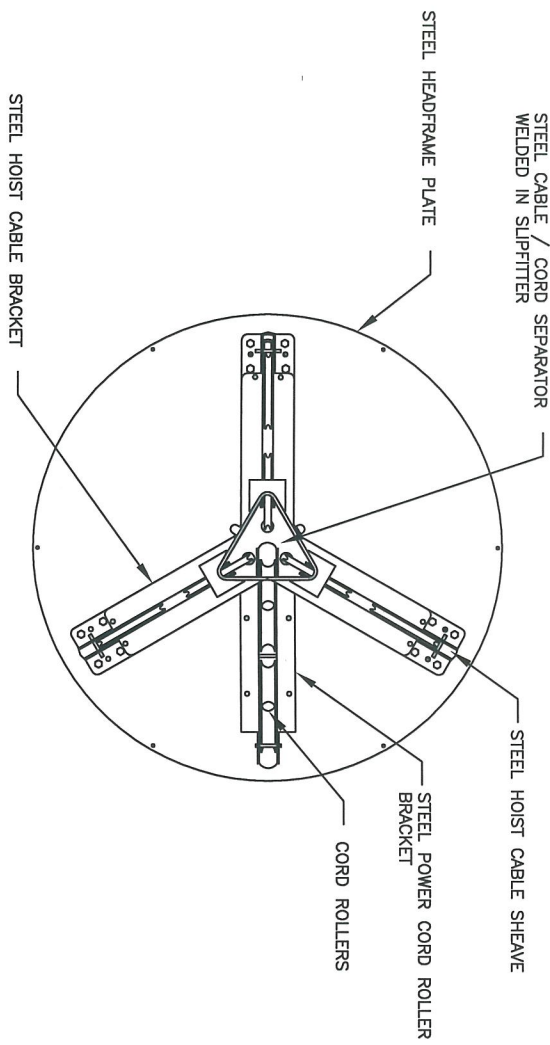


ANCHOR BOLT DETAIL
NOT TO SCALE

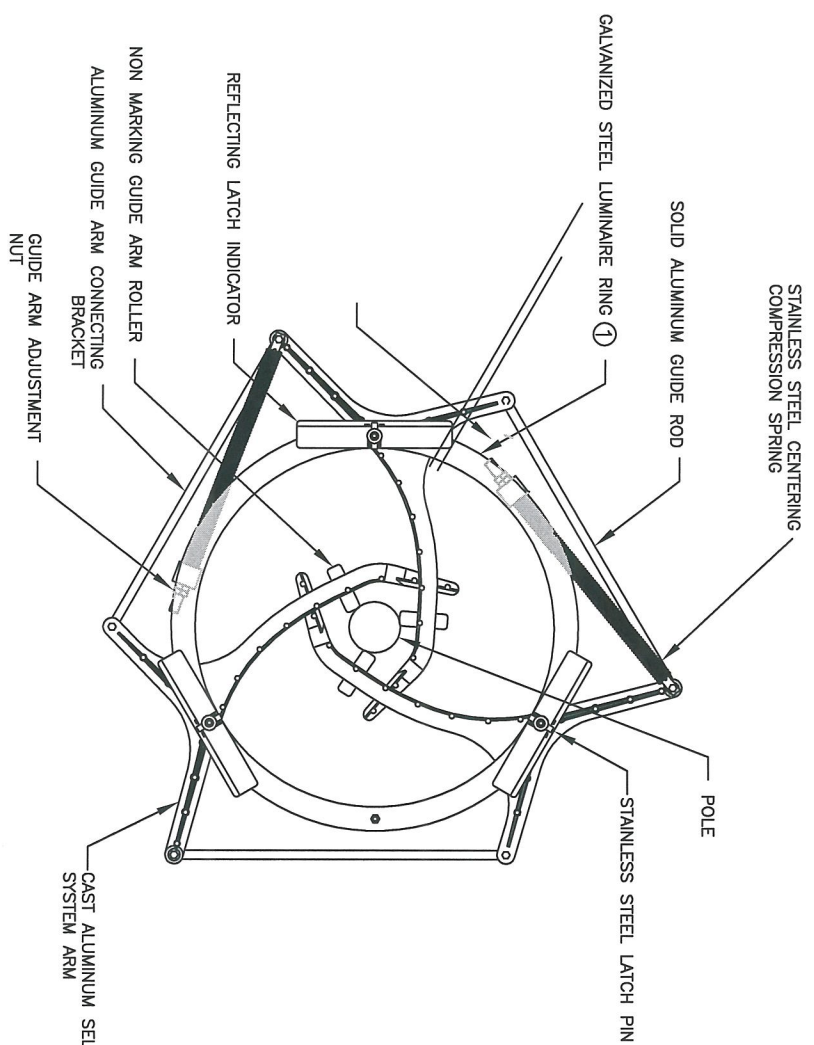


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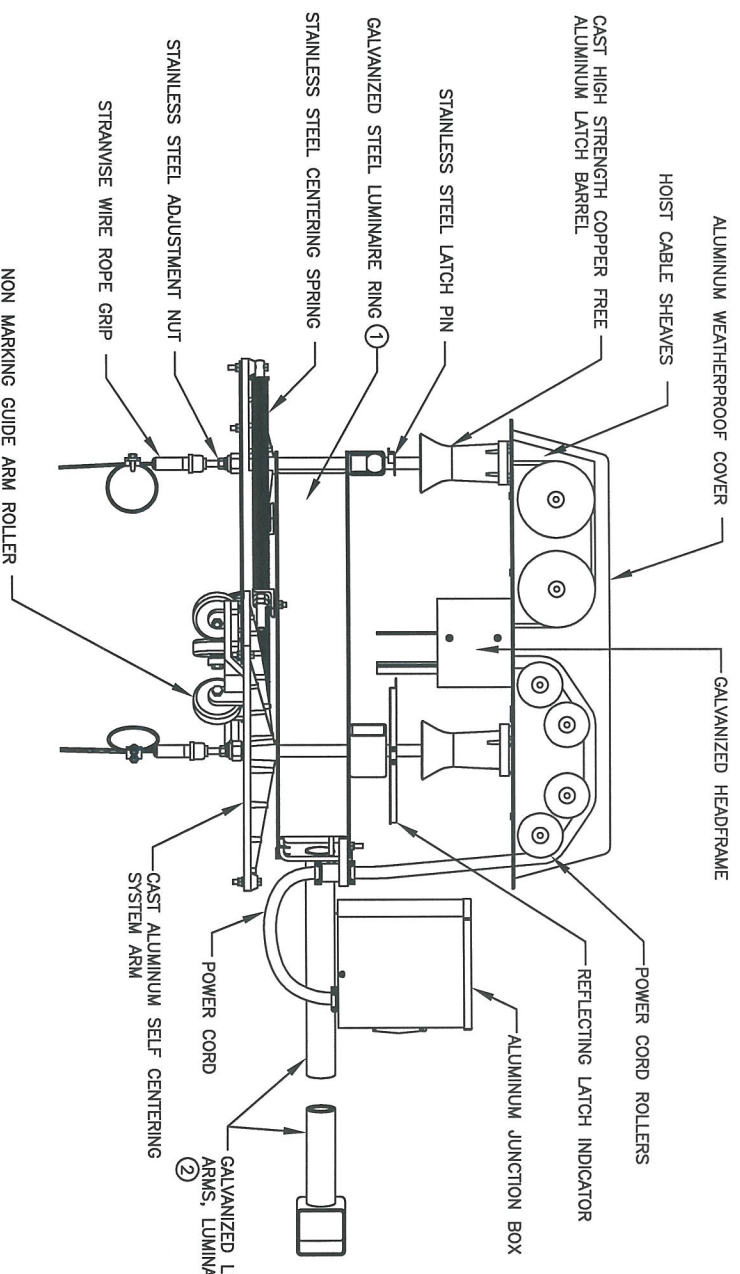
NO.	DATE	REV/BY	DESCRIPTION					
REVISIONS (OR CHANGE NOTICES)								
NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING								
HIGH MAST LUMINAIRE SUPPORT STRUCTURES TYPE VI								
DESIGNED BY <u>MB/MS</u> DRAWN BY <u>CCS</u> CHECKED BY <u>APM</u>								
707L-08-3/7								



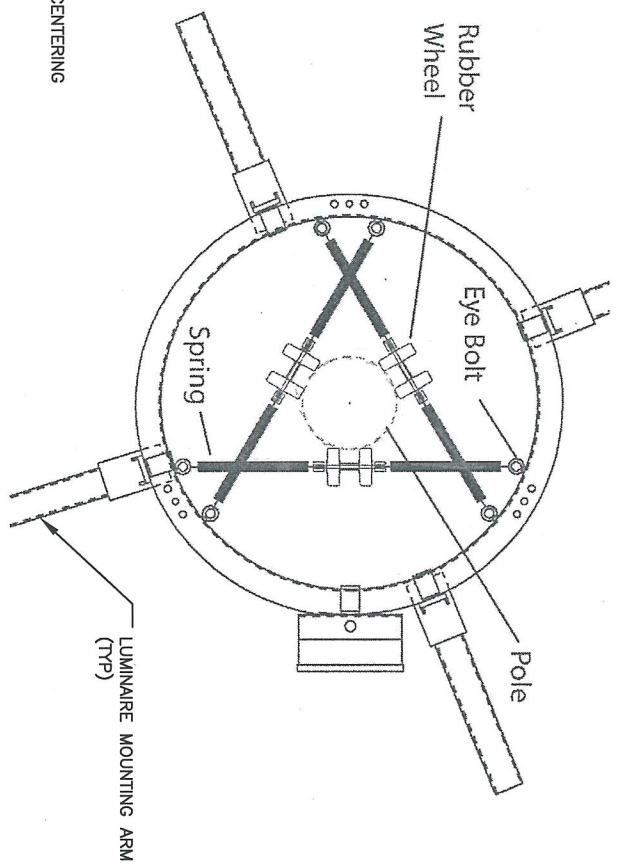
HEADFRAME ASSEMBLY
NOT TO SCALE



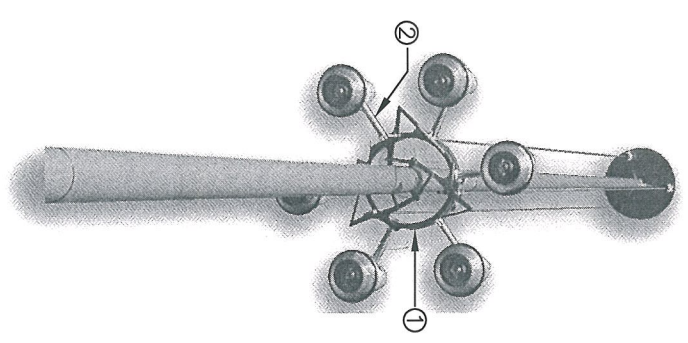
RING ASSEMBLY
NOT TO SCALE
(WITH SPRING LOADED,
INTER-CONNECTED CENTERING
SYSTEM)



TOP LATCH LOWERING DEVICE SYSTEM
NOT TO SCALE

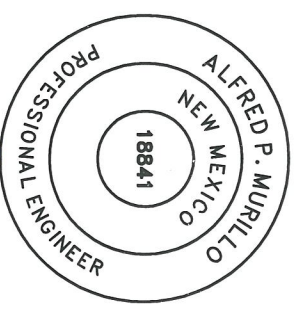


RING ASSEMBLY
NOT TO SCALE
(WITH CENTERING SPRINGS)



ISOMETRIC VIEW
NOT TO SCALE

- NOTES:
1. DETAILS SHOWN ON THIS SHEET ARE GENERAL SCHEMATIC DETAILS AND ARE NOT TO BE USED FOR CONSTRUCTION. THESE DETAILS ARE INTENDED TO PROVIDE MINIMUM REQUIREMENTS.
 2. RING ASSEMBLIES SHALL ACCOMMODATE EIGHT (MAX) LUMINAIRES.
 3. THE CONTRACTOR/FABRICATOR SHALL SUBMIT SPECIFIC DESIGN AND DETAILS FOR ALL ELECTRICAL AND MECHANICAL COMPONENTS, HEADFRAME ASSEMBLIES, RING ASSEMBLIES, CENTERING DEVICE, AND TOP LATCH LOWERING DEVICE SYSTEMS TO THE NMDOT FOR REVIEW AND APPROVAL. ALL DESIGN AND DETAILS SHALL BE SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF NEW MEXICO.
 4. SEE PROJECT DEVELOPMENT PLANS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.
 5. REFERENCE NMDOT SPECIFICATIONS FOR ADDITIONAL PERFORMANCE REQUIREMENTS OF THE TOP LATCH LOWERING DEVICE SYSTEM.

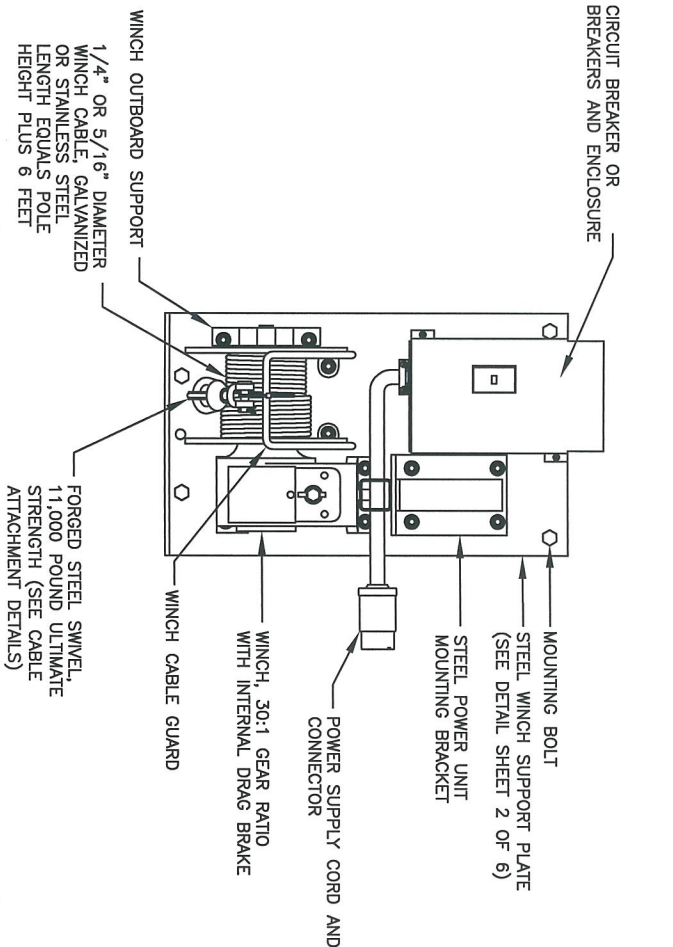


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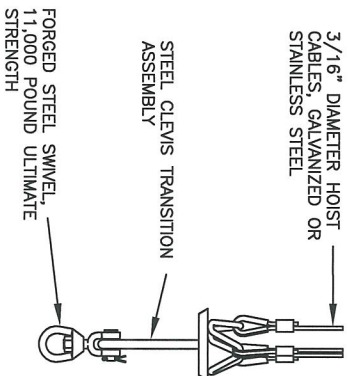
NEW MEXICO
DEPARTMENT OF TRANSPORTATION
STANDARD DRAWING

HIGH MAST LUMINAIRE
SUPPORT STRUCTURES
TYPE VI



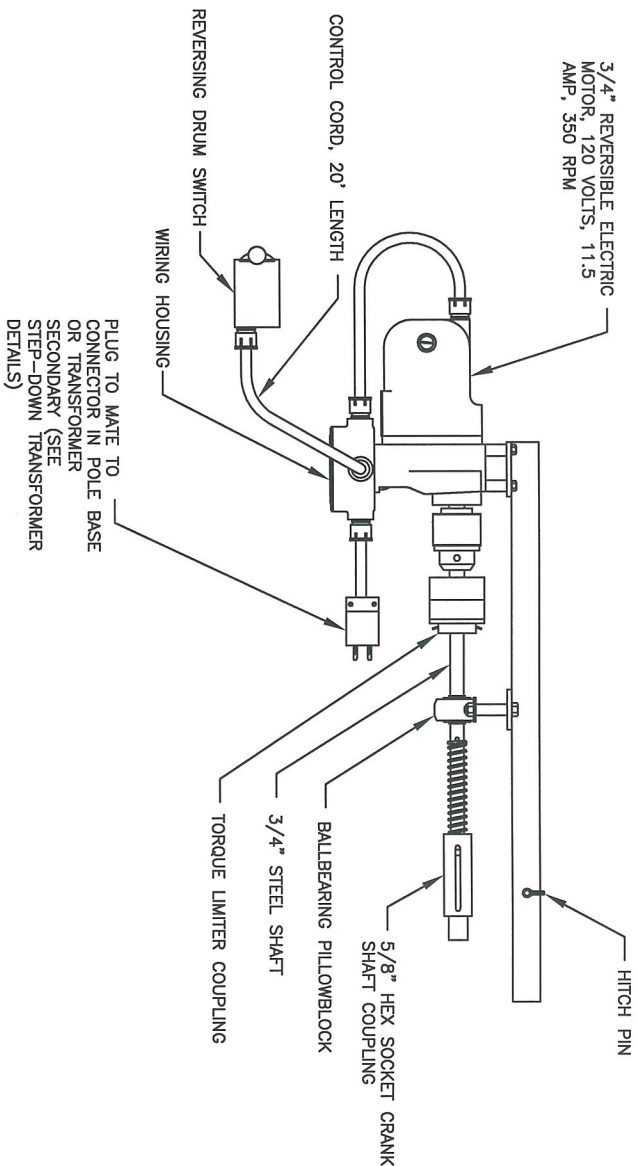
WINCH PLATE ASSEMBLY

NOT TO SCALE



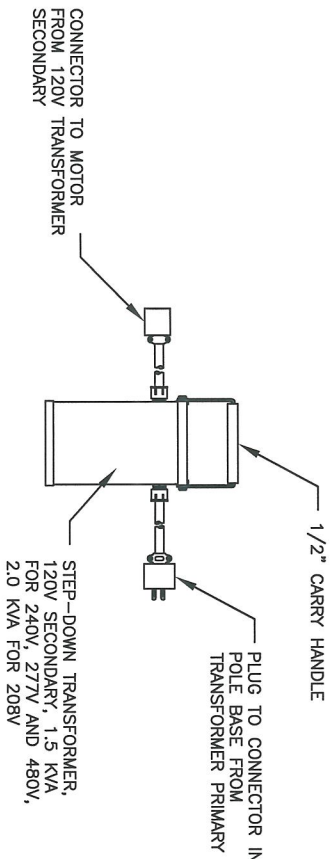
CABLE ATTACHMENT ASSEMBLY

NOT TO SCALE



PORTABLE DRIVE MOTOR ASSEMBLY

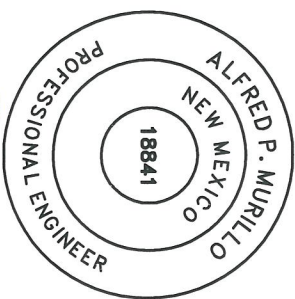
NOT TO SCALE



STEP-DOWN TRANSFORMER DETAILS

NOT TO SCALE

- NOTES:
1. DETAILS SHOWN ON THIS SHEET ARE GENERAL SCHEMATIC DETAILS AND ARE NOT TO BE USED FOR CONSTRUCTION OR FABRICATION PURPOSES. THESE DETAILS ARE INTENDED TO PROVIDE MINIMUM REQUIREMENTS.
 2. SEE PROJECT DEVELOPMENT PLANS AND SPECIFICATIONS FOR SPECIFIC WINCH REQUIREMENTS.
 3. WINCH PLATE ASSEMBLY BOLTS, PORTABLE DRIVE MOTOR, AND STEP DOWN TRANSFORMER DETAILS AND SPECIFICATIONS SHALL BE SUBMITTED BY MANUFACTURER TO NMDOT FOR REVIEW AND APPROVAL.
 4. THE CONTRACTOR/FABRICATOR SHALL SUBMIT SPECIFIC DESIGN AND DETAILS FOR ALL ELECTRICAL AND MECHANICAL COMPONENTS, IN COMPLIANCE WITH PROJECT SPECIFIC REQUIREMENTS, TO THE NMDOT FOR REVIEW AND APPROVAL. ALL DESIGN AND DETAILS SHALL BE SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF NEW MEXICO.



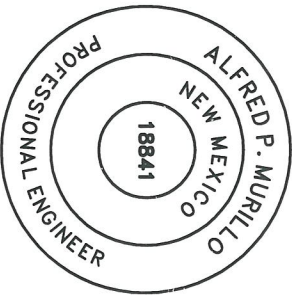
Alfred P. Murillo
12-15-08

NO.	DATE	REV. BY	DESCRIPTION
REVISIONS (OR CHANGE NOTICES)			

NEW MEXICO
DEPARTMENT OF TRANSPORTATION
STANDARD DRAWING

HIGH MAST LUMINAIRE
SUPPORT STRUCTURES
TYPE VI

1. DETAILS SHOWN ON THIS SHEET ARE GENERAL, SCHEMATIC DETAILS AND ARE NOT TO BE USED FOR CONSTRUCTION OR FABRICATION PURPOSES. THESE DETAILS ARE INTENDED TO PROVIDE MINIMUM REQUIREMENTS.
2. SEE PROJECT DEVELOPMENT PLANS AND SPECIFICATIONS FOR SPECIFIC PORTABLE WINCH REQUIREMENTS AND STEPDOWN TRANSFORMER ASSEMBLY POWER REQUIREMENTS.
3. PORTABLE WINCH TO BE USED IN CASE OF FAILURE OF PRIMARY (INTERVAL) WINCH.
4. CONTROL CORD LENGTH SHALL BE 20' MINIMUM.
5. THE CONTRACTOR/FABRICATOR SHALL SUBMIT SPECIFIC DESIGN AND DETAILS FOR ALL ELECTRICAL AND MECHANICAL COMPONENTS, IN COMPLIANCE WITH PROJECT SPECIFIC REQUIREMENTS, TO THE NMDOT FOR REVIEW AND APPROVAL. ALL DESIGN AND DETAILS SHALL BE SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF NEW MEXICO.



August Drmills
12-15-08