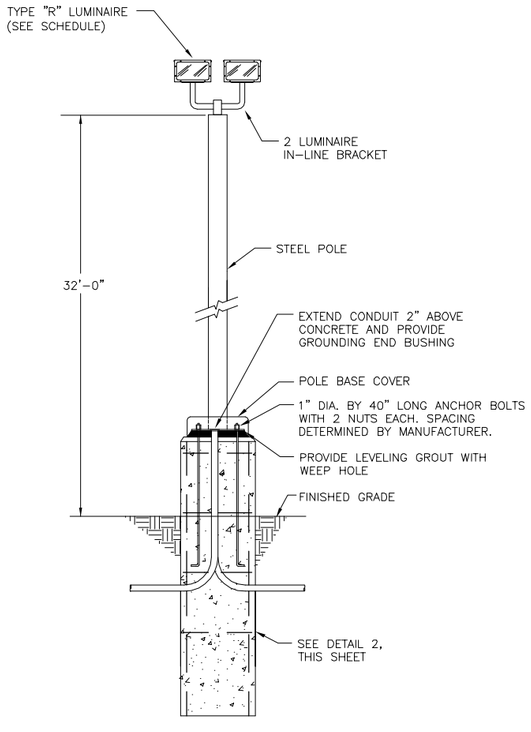
LIGHTING FIXTURE SCHEDULE
(NOTES 1 THRU 8)

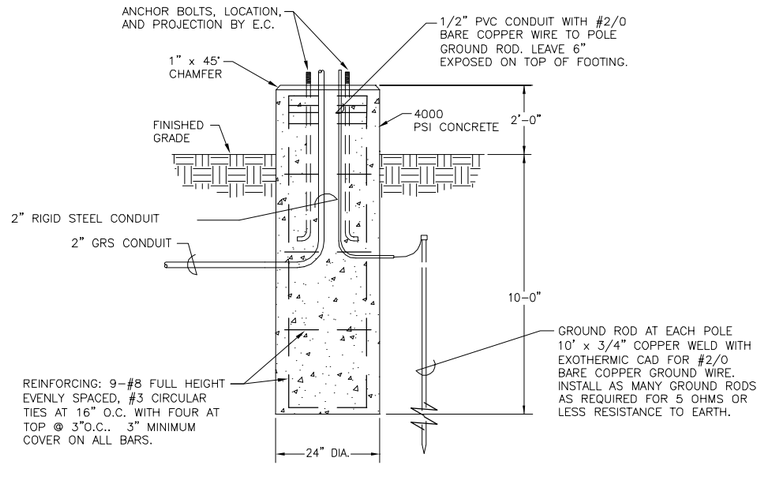
MARK	DESCRIPTION	MOUNTING	LAMPS					APPROVED MANUFACTURER	CATALOG NUMBER	SEE NOTE
			QTY	TYPE	LAMP WATTS / FIXT. WATTS	VOLTS				
R	AREA FLOODLIGHT, METAL HALIDE, 1000 WATT, INTEGRAL BALLAST DARK BRONZE FINISH. AIRPORT LOUVER SYSTEM. 2 PER POLE.	POLE	1	1000W MH	1000W	240	1	STERNER	INFRANOR – 876–20–AL–1000H–xxx–E	1–8

LIGHTING FIXTURE SCHEDULE NOTES:

1. THE LIGHTING FIXTURE SCHEDULE AND CATALOG NUMBERS INDICATE MAJOR REQUIREMENTS FOR THE LIGHTING FIXTURES. WHETHER SPECIFIED BY THE CATALOG NUMBERS OR NOT THE CONTRACTOR SHALL PROVIDE ALL COMPONENTS, HARDWARE AND RELATED ITEMS TO PROVIDE A COMPLETE LIGHTING FIXTURE TO MEET THE REQUIREMENTS AS SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS.
2. WHERE APPROVED EQUAL OR SINGLE MANUFACTURER FIXTURE IS INDICATED, THE CONTRACTOR MAY SUBMIT A FIXTURE WHICH IS EQUAL OR BETTER TO THE A/E FOR SHOP DRAWING APPROVAL. THE A/E'S DETERMINATION FOR APPROVED EQUAL SHALL GOVERN. PROVIDE A COMPLETE DETAIL OF THE EQUAL FIXTURE WITH A COMPARISON TO THE SPECIFIED FIXTURE. PHOTOMETRIC (POINT–TO–POINT) LAYOUT OF LIGHTED AREA SHALL ALSO BE PROVIDED BY THE CONTRACTOR FROM THE MANUFACTURER.
3. PROVIDE PHOTOCELL ON FIXTURE FOR CONTROL.
4. PROVIDE COLD WEATHER BALLASTS FOR FIXTURES LOCATED OUTSIDE.
5. PROVIDE ROUND TAPERED STEEL POLE AS MANUFACTURED BY MILLERBERND "11RA8341300" (30 FEET) OR APPROVED EQUAL. POLE EPA SHALL BE EQUAL TO OR GREATER THAN FIXTURE(S) EPA (90 MPH) IN ACCORDANCE TO AASHTO WIND MAP FOR JOB SITE.
6. PROVIDE 2 LIGHT INLINE BRACKET, AS MANUFACTURED BY STERNER, OR APPROVED EQUAL.
7. PROVIDE OPTICAL SHIELDING/LOUVER TO MINIMIZE GLARE TO THE AIRFIELD.
8. PROVIDE ANCHOR BOLTS. DIAMETER AND LENGTH AS REQUIRED TO MEET EPA (90 MPH) WIND REQUIREMENTS.



1 POLE MOUNTING DETAIL
N.T.S.



2 30' LIGHT POLE FOUNDATION DETAIL
N.T.S.

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DULUTH INTERNATIONAL AIRPORT

NORTH BUSINESS DEVELOPMENT AREA

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature Darren K Christopher
Typed Name DARREN K. CHRISTOPHER
Date 08/18/2009 Reg. No. 45052

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 08-18-2009
REVIEWED BY: MLS
DRAWN BY: JKE
DESIGNED BY: DKC

AEP PROJECT NUMBER
214-1882-077

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SHEET TITLE
AIRFIELD DETAILS AND NOTES

SHEET NUMBER
E400

BID DOCUMENTS

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