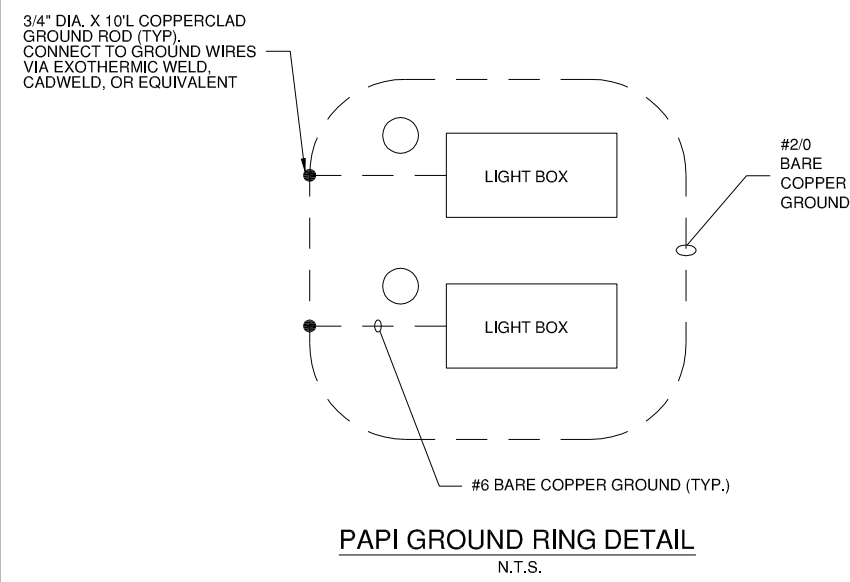
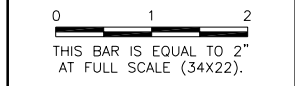
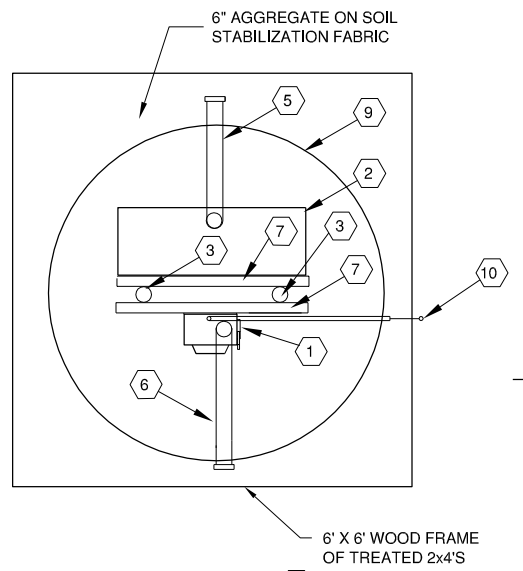


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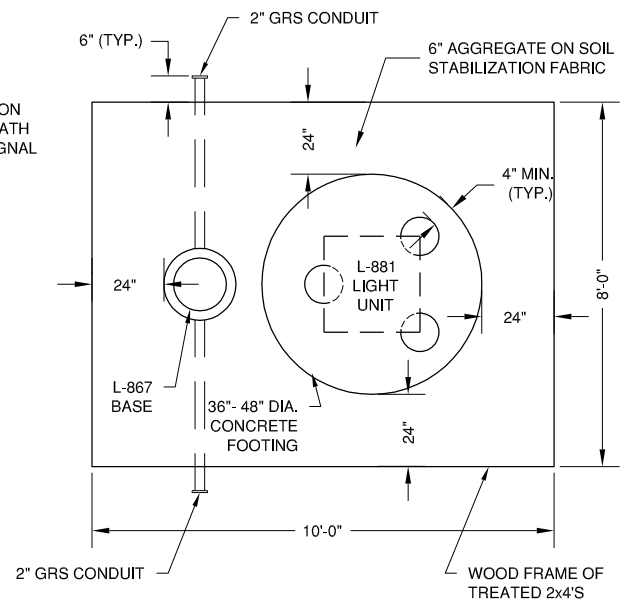
REVISIONS		
NUMBER	BY	DATE



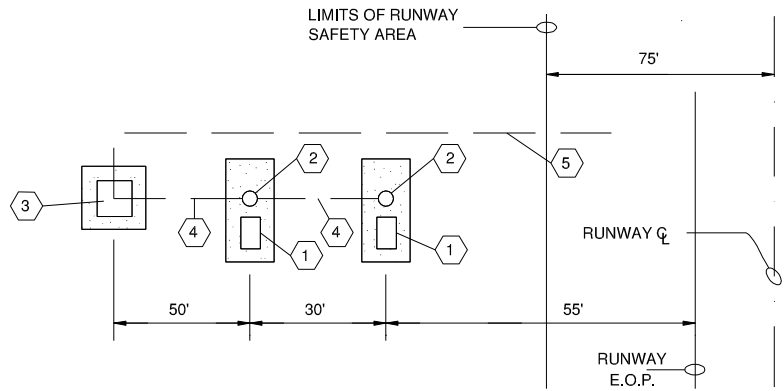
PAPI GROUND RING DETAIL
N.T.S.



RUNWAY TYPICAL PROFILE
N.T.S.
PAPI -L-881 (2 BOX)



PAPI LIGHT UNIT PLAN
N.T.S.



- 1 PAPI LIGHT BOX. SEE DETAIL, THIS SHEET.
- 2 L-867 CAN WITH SOLID LID. SEE DETAIL, THIS SHEET.
- 3 PAPI PCU. SEE DETAIL, THIS SHEET.
- 4 PAPI LIGHT BOX POWER & TILT SWITCH WIRING. SEE DETAIL, THIS SHEET.
- 5 PAPI POWER WIRING FROM VAULT. SEE DETAIL, THIS SHEET.

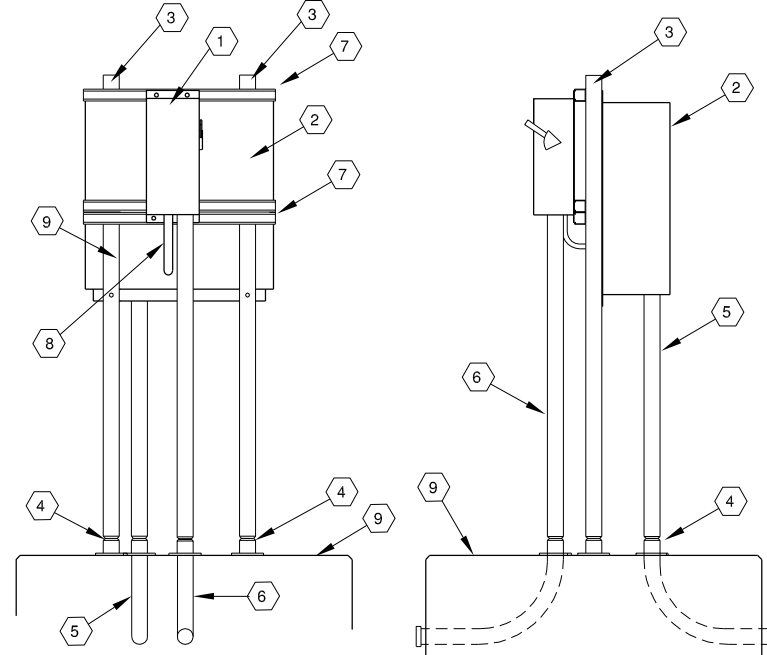
RWY. 18 PAPI PLAN
(RWY. 36 MIRROR IMAGE)
N.T.S.

AIMING OF TYPE L-881 (2-BOX) PAPI RELATIVE TO PRESELECTED GLIDE PATH (3°00')

LIGHT UNIT	AIMING ANGLE (IN MINUTES OF ARC)	
	STANDARD INSTALLATION	UNIT NEAREST RUNWAY
UNIT NEAREST RUNWAY	15' ABOVE GLIDE PATH	15' ABOVE GLIDE PATH
UNIT FARTHEST FROM RUNWAY	15' BELOW GLIDE PATH	15' BELOW GLIDE PATH

RUNWAY	18	36
HEIGHT GROUP USED FOR SITING	1	1
THRESHOLD STATIONING	150+00.82	100+00.00
THRESHOLD ELEVATION	519.25	534.14
THRESHOLD CROSSING HEIGHT	40'	40'
STATION FOR MIDPOINT OF PROJECTORS	142+27.00	109+45.00
GLIDE PATH ANGLE *	3°	3°
ELEVATION Q OF APERTURE	522.46	529.09
ELEVATION OF FOUNDATION OF UNIT NEAREST RUNWAY	520.80	526.86
ELEVATION OF FOUNDATION OF UNIT FARTHEST FROM RUNWAY	519.68	526.62

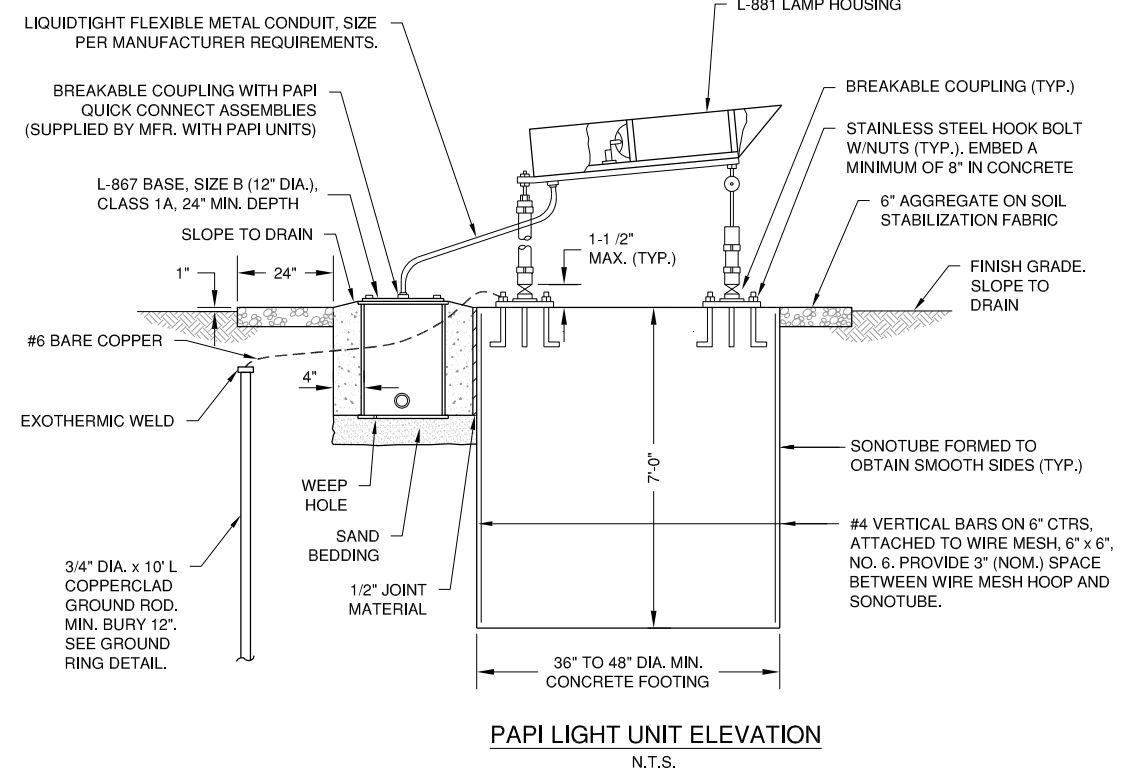
* THE VISUAL GLIDE PATH ANGLE IS THE CENTER OF THE ON COURSE ZONE AND IS MEASURED FROM THE HORIZONTAL



PAPI PCU DETAILS

PAPI PCU PLAN AND ELEVATION NOTES

- 1 HEAVY DUTY FUSIBLE DISCONNECT, 600VAC, 30A, NEMA 3R. SQUARE D H361AWK OR EQUAL, WITH TWO 15A FUSES.
- 2 208V PAPI POWER & CONTROL UNIT, WITH PHOTOCELL.
- 3 2" GALVANIZED EMT LEGS WITH TOPS CAPPED.
- 4 FRANGIBLE COUPLINGS & FLOOR FLANGES. ANCHOR TO CONCRETE FOUNDATION.
- 5 2" GRS CONDUIT WITH PAPI LIGHT HOUSING POWER & PAPI TILT CONTROL CABLES, PER PAPI MANUFACTURER.
- 6 CONDUIT AND WIRING TO VAULT AS FOLLOWS:
PAPI 18: TWO #4 TYPE USE, ONE #8 GND IN 1" UNIT DUCT
PAPI 36: TWO #2 TYPE USE, ONE #8 GND IN 1-1/4" UNIT DUCT
- 7 1 5/8 X 1 5/8 GALVANIZED STRUT.
- 8 TWO #12 THWN, ONE #12 GND IN 3/4" CONDUIT, TO PAPI POWER & CONTROL UNIT.
- 9 CONCRETE FOOTING, 36" DIAMETER X 48" DEEP (MIN.). SEE PAPI INSTALLATION FOR REBAR AND WIRE MESH INFO.
- 10 3/4" DIA. BY 10 FT. LONG COPPER CLAD GROUND ROD WITH #6 SOLID BARE COPPER GROUND CABLE ATTACHED BY EXOTHERMIC WELDING. OTHER END OF CABLE TERMINATES ON GROUND LUG IN DISCONNECT.



PAPI LIGHT UNIT ELEVATION
N.T.S.

FOUNDATIONS:
FOUNDATIONS FOR MOUNTING LIGHT BOXES SHALL BE MADE OF ITEM 610 CONCRETE. ALL LIGHT BOXES SHALL BE FRANGIBLY MOUNTED TO THE FOUNDATION.

AZIMUTHAL AIMING:
EACH LIGHT UNIT SHALL BE AIMED OUTWARD INTO THE APPROACH ZONE ON A LINE PARALLEL TO THE RUNWAY CENTERLINE WITHIN A TOLERANCE OF ±1/2 DEGREE.

MOUNTING HEIGHT TOLERANCES:
THE BEAM CENTERS OF ALL LIGHT UNITS SHALL BE WITHIN ±1 INCH OF A HORIZONTAL PLANE AT THE ELEVATION GIVEN IN THE TABLE.

TOLERANCE ALONG LINE PERPENDICULAR TO RUNWAY:
THE FRONT FACE OF EACH LIGHT UNIT IN A BAR SHALL BE LOCATED ON A LINE PERPENDICULAR TO THE RUNWAY CENTERLINE WITHIN ±6 INCHES.

LATERAL SPACING:
THE DIFFERENCE IN LATERAL SPACING BETWEEN LIGHT UNITS SHALL NOT EXCEED 1'-0".

CITY OF CENTRALIA, ILLINOIS
CENTRALIA MUNICIPAL AIRPORT
CENTRALIA, ILLINOIS
CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE
MIRLS, PAPI & REILS ON RUNWAY 18/36
PAPI DETAILS

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CHECKED BY:	KLB
APPROVED BY:	RLV
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SHEET	18 OF 30 SHEETS