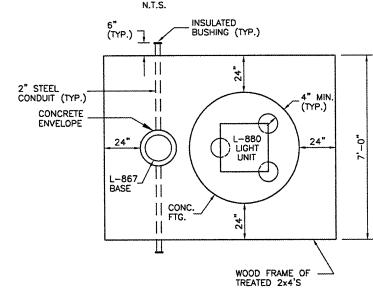


RUNWAY 18 TYPICAL PROFILE



REBUILT PAPI WATERTIGHT FLEXIBLE CONDUIT -BREAKABLE BREAKABLE COUPLING & 4P, 10 COUPLING (TYP.) AWG. 600 V. QUICK DISCONNECT STAINLESS STEEL HOOK (JOY MALE x 8092-50 FEMALE x BOLT W/NUTS (TYP.) 8092-52) OR PER MANUFACTURER. DO NOT TAPE EMBEDDED MINIMUM OF 8" IN CONCRETE SLOPE TO 1/2" WASHED DRAIN 1 1/2" MAX. (TYP.) STONE (TYP. BOTH SIDES) FINISHED 24" GRADE 6 MIL. BLACK L-867 BASE POLYETHYLENE 0 (TYP. BOTH SIDES) SONOTUBE FORMED TO OBTAIN SMOOTH SIDES (TYP.) WEEP HOLE 4" SAND BEDDING #4 BARS SPACED AROUND WIRE MESH, 6" x 6", NO. 6 1/2" JOINT MATERIAL 3" COVER ON ALL REINF. 36" DIA. MIN. APPLY " NEVER SEEZ" OR APPROVED RODS BOTTOM, TOP & SIDES EQUAL TO ALL THREADED BOLTS AND CONCRETE FOOTING CONNECTIONS.

ELEVATION VIEW

PLAN VIEW DETAIL

GENERAL NOTES

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:

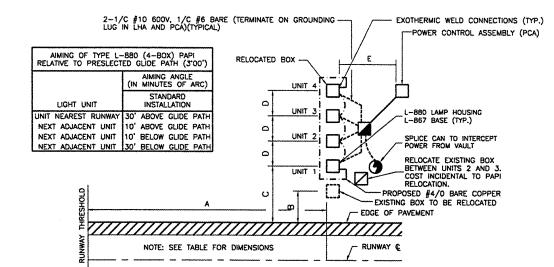
2. EACH LIGHT UNIT SHALL BE AIMED OUTWARD INTO THE APPROACH ZONE ON A LINE PARALLEL TO THE RUNWAY CENTERLINE WITHIN A TOLERANCE OF ±1/2 DEGREE. COST WILL BE INCIDENTAL TO PAPI RELOCATION.

MOUNTING HEIGHT TOLERANCES:

3. 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:

- 4. THE FRONT FACE OF EACH LIGHT UNIT IN A BAR SHALL BE LOCATED ON A LINE PERPENDICULAR TO THE RUNWAY CENTERLINE WITHIN ±6 INCHES.
- 5. PROVIDE FRANCIBLE MOUNTS FOR ALL LEGS OF LIGHT UNITS AND POWER ADAPTERS.
- 6. NUMBER AND CONFIGURATION OF LEGS PER MANUFACTURER. (3 LEGS MINIMUM)
- 7. GROUND EACH LAMP HOUSING AND POWER ADAPTER PER MANUFACTURER
- 8. THE POWER AND CONTROL UNIT SHALL BE STYLE A, CLASS II.
- 9. THE DIFFERENCE IN LATERAL SPACING BETWEEN THE LIGHT UNITS SHALL NOT EXCEED ONE FOOT.
- 10. EACH LIGHT UNIT SHALL HAVE FOUR LAMPS AND SHALL PROVIDE A BEAM OF LIGHT SPLIT HORIZONTALLY TO PRODUCE WHITE LIGHT IN THE TOP SECTOR AND RE LIGHT UN THE BOTTOM SECTOR. THEY SHALL HAVE A MINIMUM OF THREE MOUNTING LEGS WHICH SHALL BE ADJUSTABLE TO PERMIT LEVELING WHERE ONE SIDE OF THE UNIT IS INSTALLED UP TO 1 INCH LOWER THAN THE OPPOSITE SIDE.
- 11. APPLY "NEVER SEEZ" OR APPROVED EQUAL TO ALL THREADED BOLTS AND CONNECTIONS.
- 12. THE COST OF THE PAPI SHALL INCLUDE ANY SITE WORK AROUND THE PAPI, INCLUDING BUT NOT LIMITED TO THE CRUSHED STONE, EARTHWORK AND LANDSCAPING.
- THE CONTRACTOR SHALL RE-AIM ALL EXISTING AND RELOCATED LIGHT UNITS IN ACCORDANCE WITH TABLE.

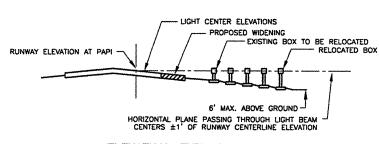


PAPI LIGHT UNIT LOCATION
N.T.S.

DESCRIPTION	RUNWAY END 18
DIMENSION A	477'
DIMENSION B	35*
DIMENSION C	55'
DIMENSION D	20'
DIMENSION E	15'
HEIGHT GROUP USED FOR SITING	1
THRESHOLD STATION	45+00
THRESHOLD ELEVATION	536.70
THRESHOLD CROSSING HEIGHT	20'
GLIDE PATH ANGLE	3*
ELEVATION & OF APERTURE UNIT 1	533.26
ELEVATION & OF APERTURE UNIT 2	533.26
ELEVATION & OF APERTURE UNIT 3	533.26
ELEVATION & OF APERTURE UNIT 4	533.26
AIMING ANGLE UNIT 1	3, 30,
AIMING ANGLE UNIT 2	3' 10'
AIMING ANGLE UNIT 3	2° 50'
AIMING ANGLE LINIT 4	2' 30'

NOTE:

- BASE DESIGN AND LAYOUT ON ADVISORY CIRCULAR 150/5345-28F. CONTRACTOR SHALL MEET THE REQUIREMENTS IN ADVISORY CIRCULAR 150/5345-28F.
- 2. SEE PAPI LIGHT UNIT LOCATION FOR UNIT LOCATIONS AND DIMENSIONS
- THE VISUAL GLIDE PATH ANGLE IS THE CENTER OF THE ON COURSE ZONE AND IS MEASURED FROM THE HORIZONTAL.
- 4. CONTRACTOR SHALL ALIGN RELOCATED LIGHT UNIT WITH EXISTING UNITS.
- RELOCATION OF PAPI SYSTEM PAY ITEM SHALL INCLUDE BUT NOT LIMITED TO PAPI LIGHT UNITS, RE-AIMING, POWER CONTROL AND MONITORING, ALL CABLES BETWEEN PCU AND LIGHT UNITS, GROUNDING SYSTEM, FOUNDATIONS AND ANY NECESSARY EQUIPMENT FOR A COMPLETE AND OPERATIONAL SYSTEM.
- CONTRACTOR SHALL RE-AIM ALL EXISTING AND RELOCATED LIGHT UNIT IN ACCORDANCE WITH THE TABLE.



ELEVATION - TYPICAL N.T.S.

K:\SportoAP\0641203 Widen Rnwy\Draw\Sheets FILE: PAPI DETAILS.dwg UPDATE BY: Dave Allen PLOT DATE: 4/16/2008 10:29 AM REVISIONS NUMBER | BY DATE THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22). 18/36 DETAIL **OVERLAY RUNWAY** TA COMMUNITY AIRPO HUNTER FIELD SPARTA, ILLINOIS API RELOCATED AND SPARTA WIDEN, DESIGN BY: DRAWN BY: CMT JEF CHECKED BY: APPROVED BY: JEF 04/18/2008 DATE: JOB No: 0641203 IL PROJ. NO. SAR~3652 AIP PROJ. NO. 3-17-0094-89 SHEET 12 OF 28 SHEETS