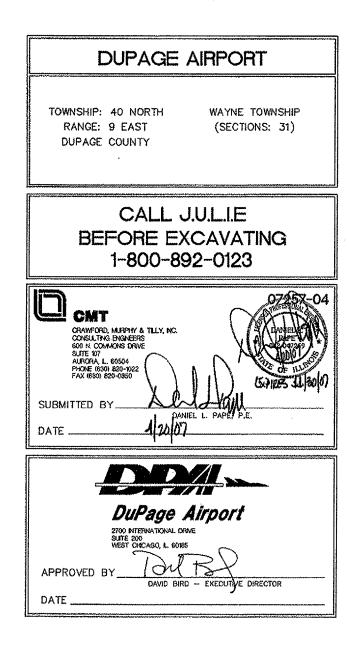
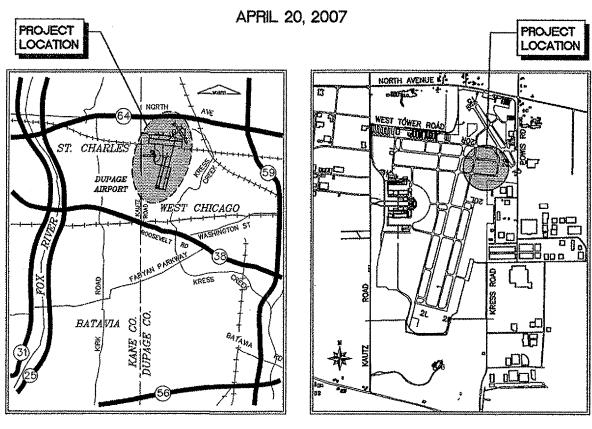
ITEM 18A

DUPAGE AIRPORT AUTHORITY WEST CHICAGO, ILLINOIS CONSTRUCTION PLANS FOR DUPAGE AIRPORT



RE-MARK RUNWAY 10-28 AND RE-LIGHT RUNWAY END 28 THRESHOLD; INSTALL RUNWAY 28 PAPI AND REIL LIGHTS

> A.I.P. PROJECT: 3-17-0017-B21 ILLINOIS PROJECT: DPA-3695



LOCATION MAP

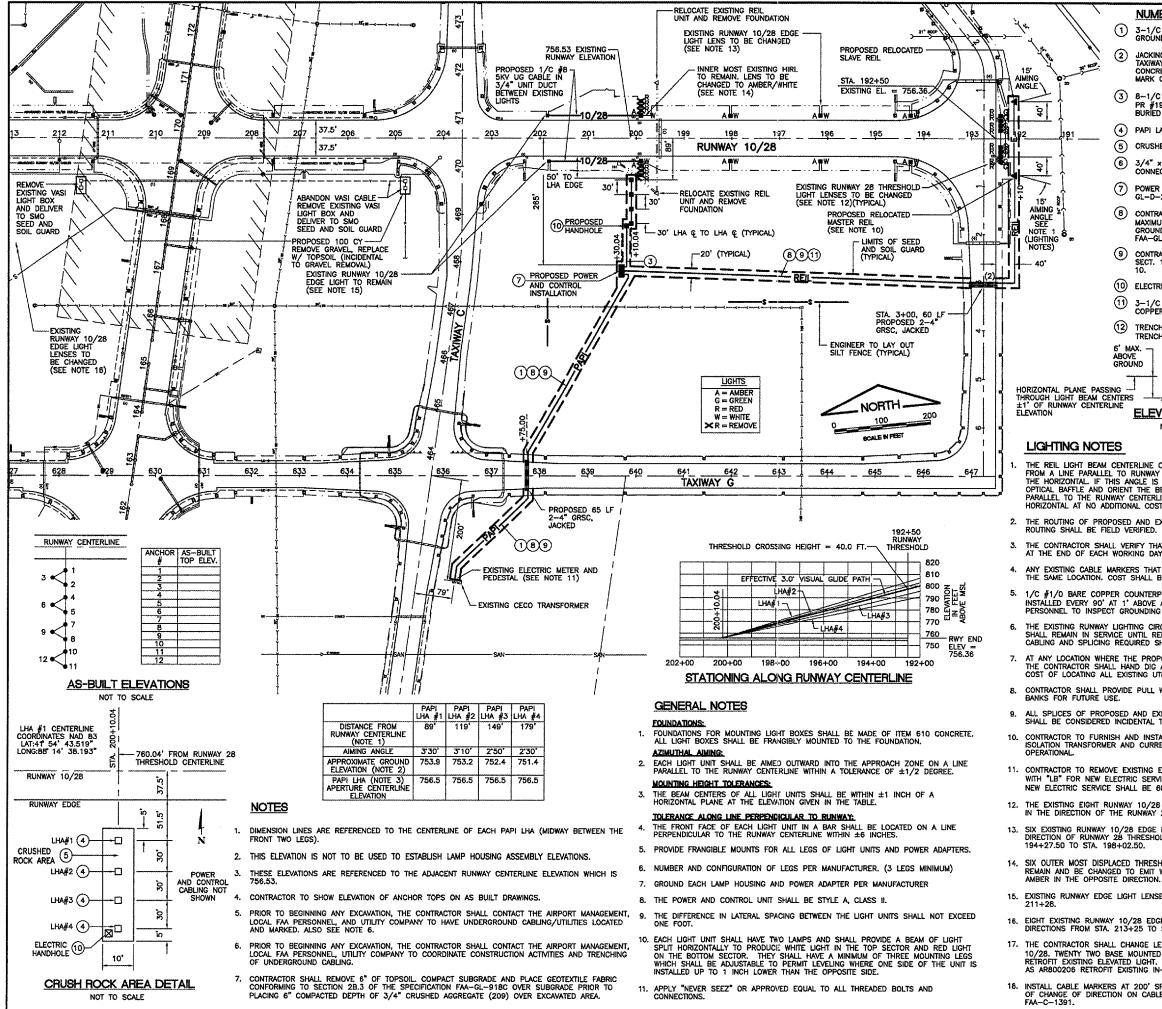
SITE PLAN

DUO76 TOTAL SHEET = 10

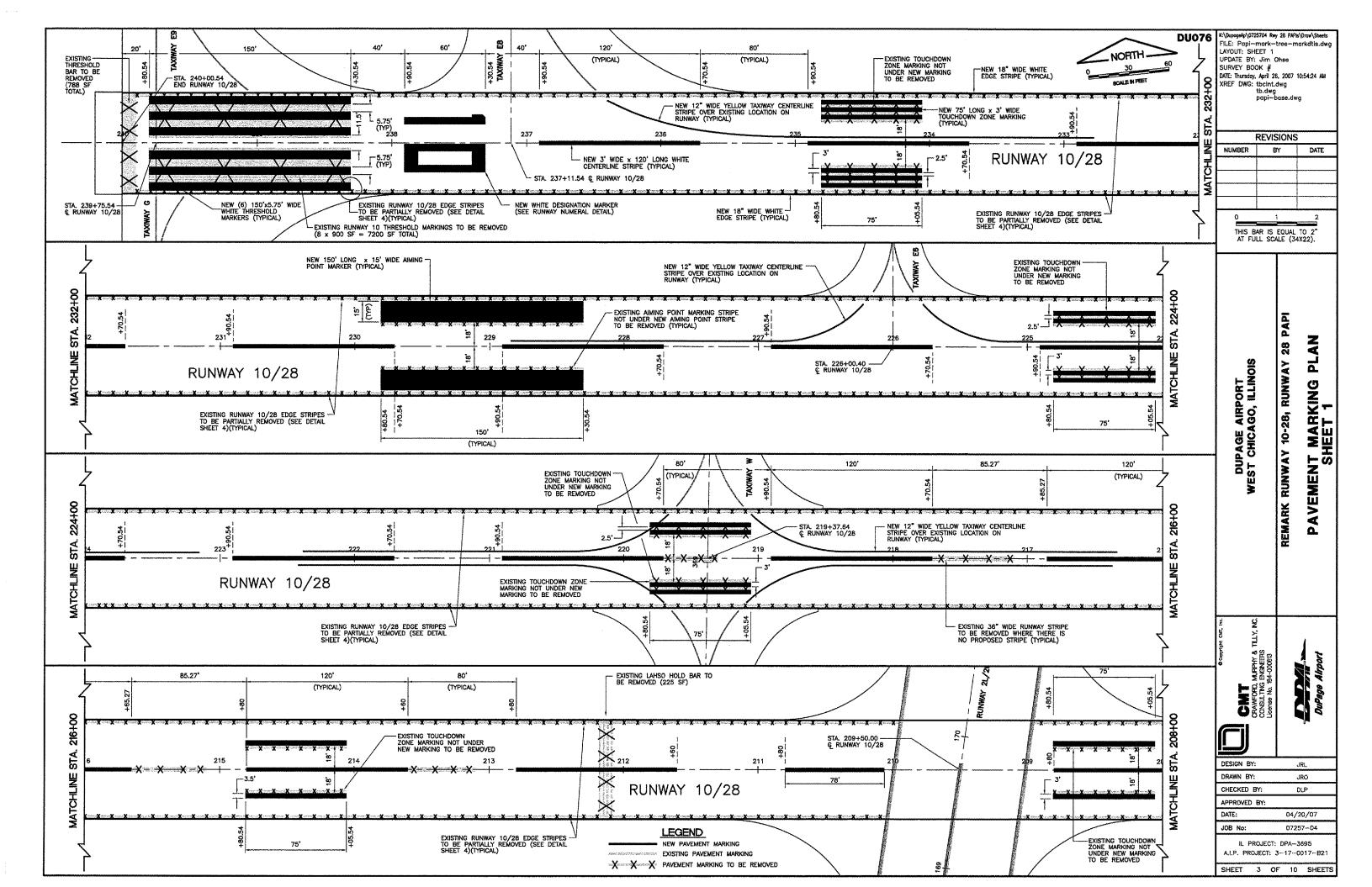
ESTIMATED ITEM NO. DESCRIPTION UNIT QUANTITY AR108156 AR108404 AR108404 AR108766 1/C # 4 600V UG CABLE IN UD AR108766 1/C # 6 GROUND AR108766 AR108766 AR125615 IPAPI (L-880 SYSTEM) AR125902 REMOVE BASE MOUNTED LI AR125902 AREMOVE BASE MOUNTED LI 3,72 2,034 LF EACH AR125909 REMOVE VASI AR125967 RELOCATE REIL AR156510 SILT FENCE EACH PAR LF EACH AR156520 INLET PROTECT AR820520 INCET FOR THE FORMER THE FORME AR820520 PAVEMENT MARKING - WATERBORNE AR820525 PAVEMENT MARKING REMOVAL 50,910 23,811 SF 42.72 53 SOIL GUAR 288 237 093 1/C#1 600V UG CAB AR800119 | REMOVE GRAVE 20 R800176 RETROFIT EXISTING ELEVATED LIGHT EACH 176 RETROFIT EXISTING IN-PAVEMENT LIGH EACH 300177 1/C #1/0 COUNTERPOR LF ACRE 203 A8901510 | SEEDING

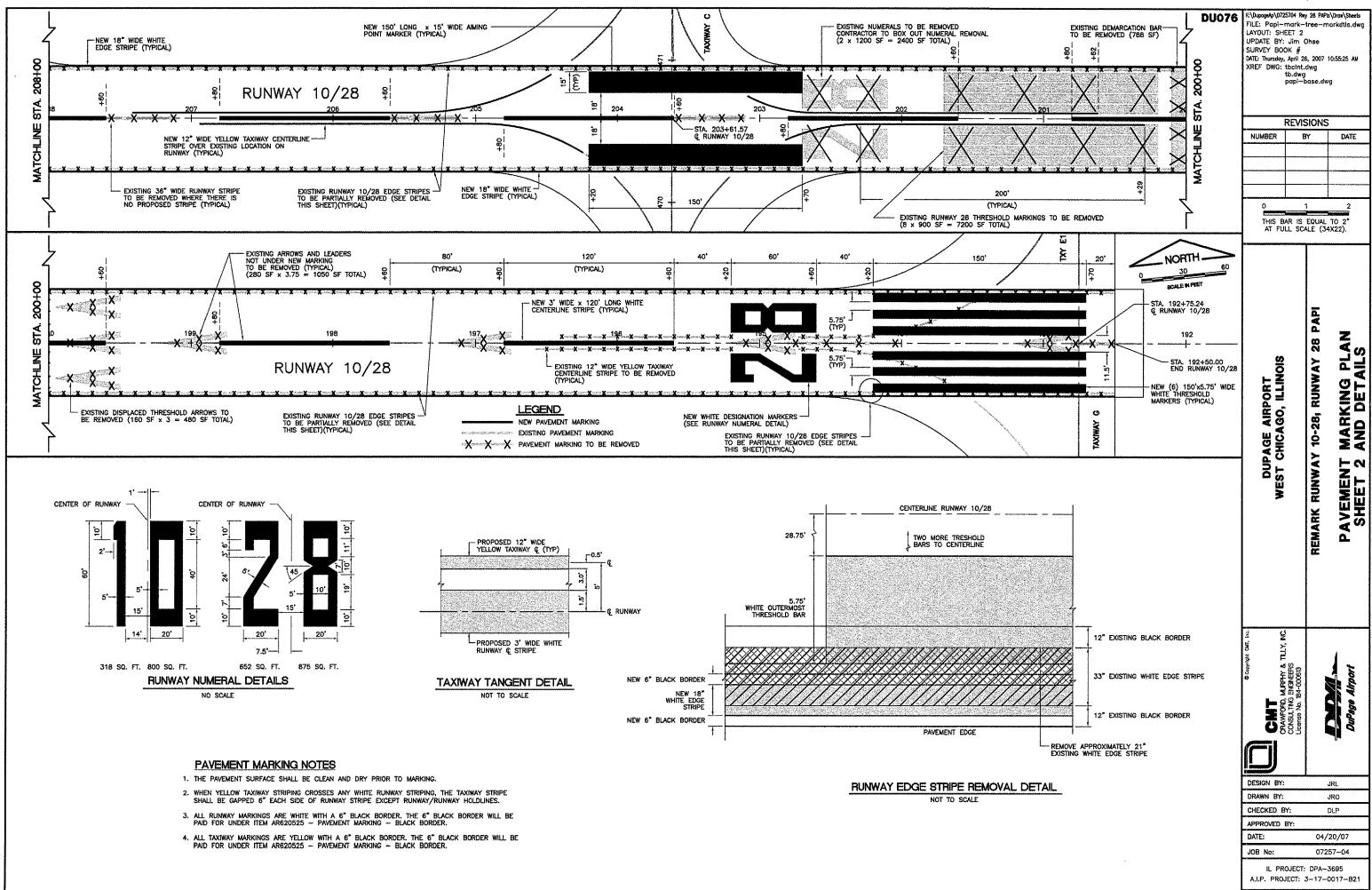
INDEX TO SHEETS

- 1 COVER SHEET
- 2 SITE PLAN/PROJECT LAYOUT
- 3 PAVEMENT MARKING PLAN SHEET 1
- 4 PAVEMENT MARKING PLAN SHEET 2 AND DETAILS
- 5 LAMP HOUSING DETAILS PAPI RUNWAY 28
- 6 POWER AND CONTROL INSTALLATION PAPI RUNWAY 28
- 7 SYSTEM WIRING DIAGRAM PAPI RUNWAY 28
- 8 MISCELLANEOUS DETAILS
- 9 RUNWAY 28 REIL RELOCATION AND DETAILS
- 10 REIL WIRING DIAGRAM

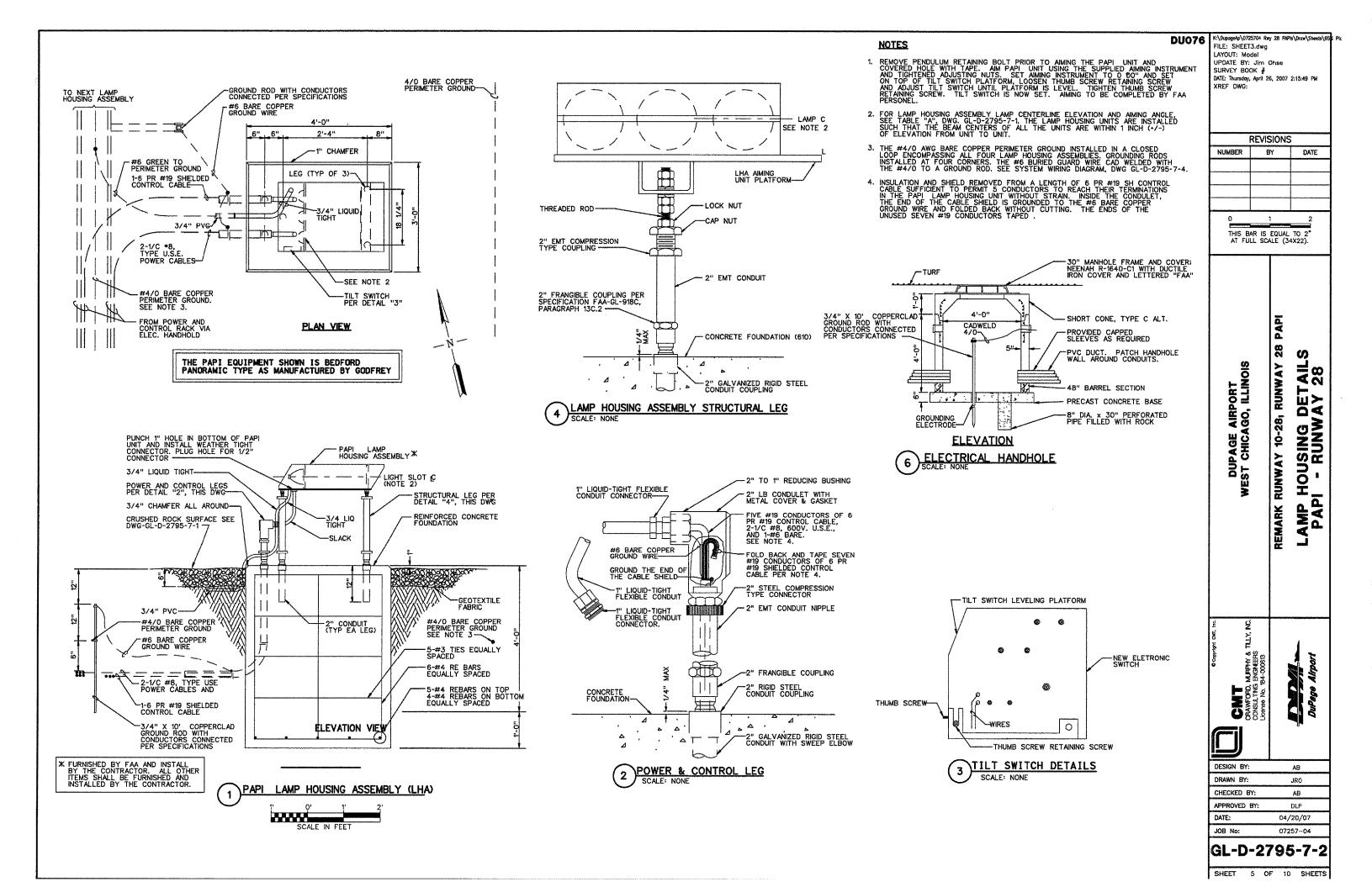


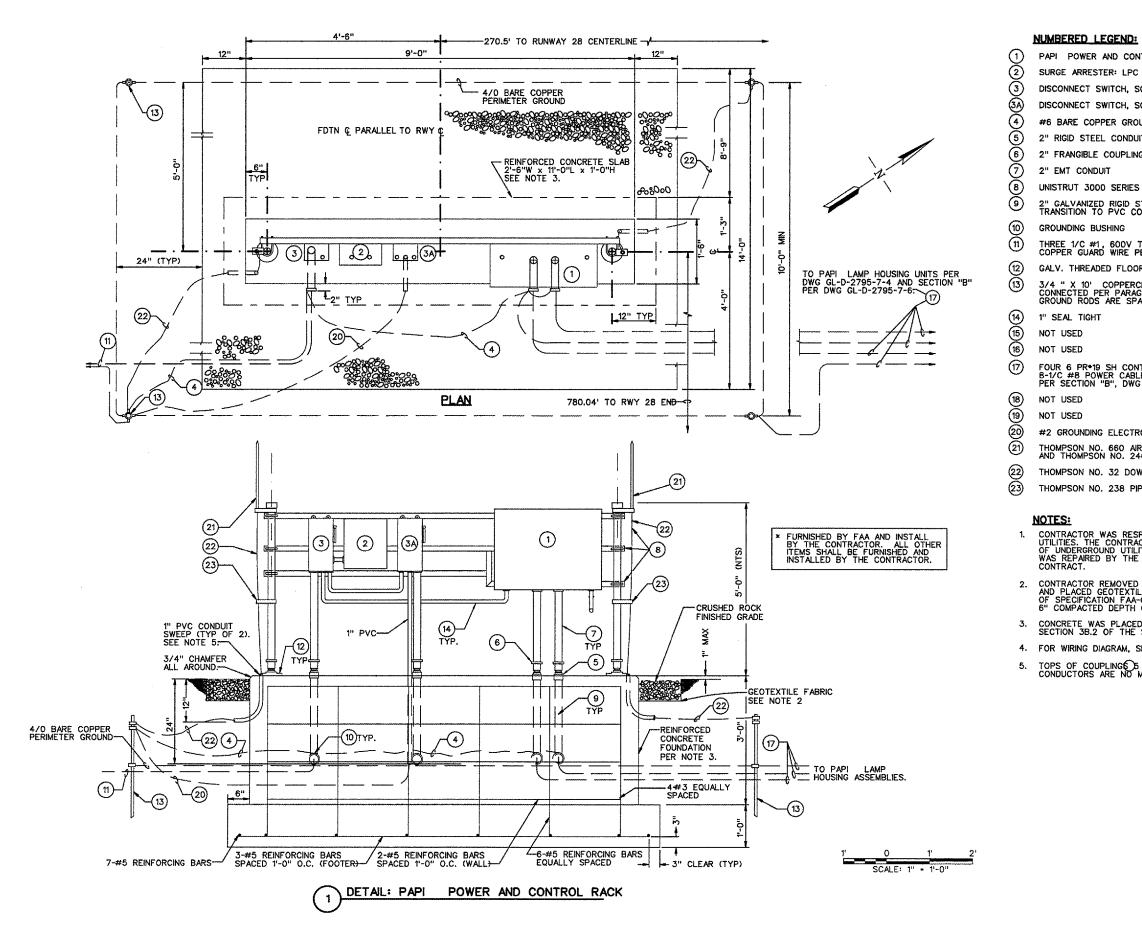
| ABERED LEGEND DU07 | FILE: Papi-site.dwg |
|---|--|
| 'C #1 TYPE U.S.E. POWER CABLES AND 1/C #6 BARE COPPEF IND WIRE. SEE DWG. GL-D-2795-7-4. | UPDATE BY: Jim Ohse |
| ING OPERATION: JACK 3" GRS A MINIMUM OF 4 FEET UNDER NAYS AND SHOULDERS, EXTEND A MINIMUM OF 5 FEET BEYOND RETE EDGE, RESTORE PIT AREAS TO PREVIOUS CONDITIONS. CASING PIPE ENDS WITH ABOVE GROUND MARKERS. | SURVEY BOOK # DATE: Thursday, April 26, 2007 10:43:04 AM XREF DWG: tbclnt.dwg tb.dwg popi-base.dwg |
| 'C #8, 4#6 GROUND, TYPE U.S.E. POWER CABLES, FOUR 6 19 SHIELDED CONTROL CABLES AND 1/C #6 BARE COPPER 2D GUARD WIRE, PER DWG. GL-D-2795-7-4. | |
| LAMP HOUSING ASSEMBLY (LHA) PER DWG. GL-D-2795-7-2. | REVISIONS |
| HED ROCK AREA, SEE NOTE 7. | NUMBER BY DATE |
| × 10' COPPER CLAD GROUND ROD W/ EXOTHERMIC WELD ECTION SEE DETAIL "1" DWG. GL-D-2795-7-2. | |
| R AND CONTROL INSTALL. SEE DETAIL "1", DWG. | |
| RACTOR TO INSTALL GROUND RODS ALONG CABLE RUN AT 90' IUM INTERVALS AND CONNECT TO ∯1/0 BARE COPPER IND WIRE PER SECTION 16A.4E OF SPECIFICATION GL—918C. | 0 1 2 THIS BAR IS EQUAL TO 2" |
| RACTOR TO INSTALL CABLE MARKERS FOR BURIED CABLE PER 16F-3G OF SPECIFICATIONS FAA-GL-918C, AND SHEET 8 OF | AT FULL SCALE (34X22). |
| TRIC HANDHOLE, SEE DETAIL 6, DWG. D-2795-7-12. | |
| 'C #4, TYPE U.S.E. POWER CABLES AND 1/C #6 BARE ER GROUND WIRE TO REIL MASTER UNIT. | |
| CH SECTIONS, SEE DWG. GL-D-2795-7-6. THE NORMAL CH DEPTH FOR THIS PROJECT IS 30". | _ |
| LIGHT CENTER ELVATIONS RUNWAY ELEVATION AT PAPI = 756.53 | S Y 28 PAP |
| - Hotel - | |
| NOT TO SCALE | AIRPORT GO, ILLINOI 28, RUNWA |
| OF EACH LIGHT UNIT SHALL BE AIMED 15 DEGREES OUTWARD Y CENTERLINE AND INCLINED AT AN ANGLE 10 DEGREES ABOV S OPERATIONALLY OBJECTABLE, CONTRACTOR SHALL PROVIDE A BEAM AXIS OF UNIT 10 DEGREES OUTWARD FROM A LINE RLINE AND INCLINED AT AN ANGLE OF 3 DEGREES ABOVE THE ST. | age air Hicago 10-28, ROJE(|
| EXISTING CABLE SHOWN IS FOR INFORMATION ONLY, THE EXAC | BUP/ WEST C RUNWAY |
| HAT THE EXISTING RUNWAY LIGHTING CIRCUIT IS OPERATIONAL AY. | |
| AT ARE DISTURBED SHOULD BE REMOVED AND REINSTALLED AT BE INCIDENTAL TO GRADING. | |
| RPOISE COMPLETE WITH $3/4" \times 10'$ ground rods shall be all non-armored cable. Contractor shall request fau g before backfilling. | |
| RCUIT, FAA CABLES AND OTHER AIRPORT ELECTRICAL CABLES REPLACED AS DIRECTED BY THE ENGINEER. ALL TEMPORARY SHALL BE CONSIDERED INCIDENTAL TO CONTRACT. | |
| DPOSED DUCT OR CABLE ROUTE CROSSES AN EXISTING UTILITY, AND LOCATE THE EXISTING UTILITY PRIOR TO TRENCHING. JTILITIES SHALL BE INCIDENTAL TO THE CONTRACT. | , |
| WIRE FOR ALL DUCT BANKS AND CAP THE UNUSED DUCT | |
| EXISTING CABLES IN ELECTRICAL HANDHOLES AND LIGHT BASES TO THE CONTRACT. | tro 🖌 |
| TALL CONTROL WIRES BETWEEN REIL MASTER AND SLAVE UNITS RENT SENSING UNIT TO MAKE REIL SYSTEM COMPLETE AND | ocapright Capright Althort Althort |
| ELECTRIC SERVICE CONDUIT AND INSTALL NEW 2" CONDUIT MICE, COORDINATE NEW SERVICE CONNECTION WITH COMED. 60A, 120/240V, SINGLE PHASE, 3-WIRE. | L THG ENG No. 184-0. |
| 28 THRESHOLD LIGHTS SHALL BE CHANGED TO EMIT RED LIGHT 7 28 END AND GREEN LIGHT OUTWARD. | CONT CONT CONTINE CONTINE CONTINE License No. 18 License No. 18 Duffege |
| E LIGHTS SHALL BE CHANGED TO EMIT WHITE LIGHT IN THE OLD AND AMBER LIGHT IN THE OPPOSITE DIRECTION FROM STA | |
| SHOLD LIGHTS TO BE REMOVED. TWO INNER MOST HIRLS TO WHITE LIGHT TOWARD THE 28 END OF THE RUNWAY AND N. REPLACE EXISTING LAMPS WITH 120W LAMP. | DESIGN BY: DLP |
| ses to remain amber/white from sta. 201+81.43 to sta. | DRAWN BY: JRO CHECKED BY: AB |
| DGE LIGHTS TO BE CHANGED TO EMIT WHITE LIGHT IN BOTH O STA. 219+04.29 INCLUDING TWO IN-PAVEMENT LIGHTS. | APPROVED BY: DLP |
| LENSES IN A TOTAL OF TWENTY-FOUR LIGHTS ON RUNWAY ED LIGHT LENS CHANGES TO BE PAID FOR AS AR800205 . TWO IN-PAVEMENT LIGHT LENS CHANGES TO BE PAID FOR | DATE: 04/20/07 JOB No: 07257-04 |
| N-PAVEMENT LIGHT. SPACING ON RUNS OVER 200' IN LENGTH AND AT LOCATION | IL PROJECT: DPA-3695 A.I.P. PROJECT: 3-17-0017-B21 |
| BLE RUN AND AT SPLICES AS REQUIRED BY SPECIFICATION | SHEET 2 OF 10 SHEETS |



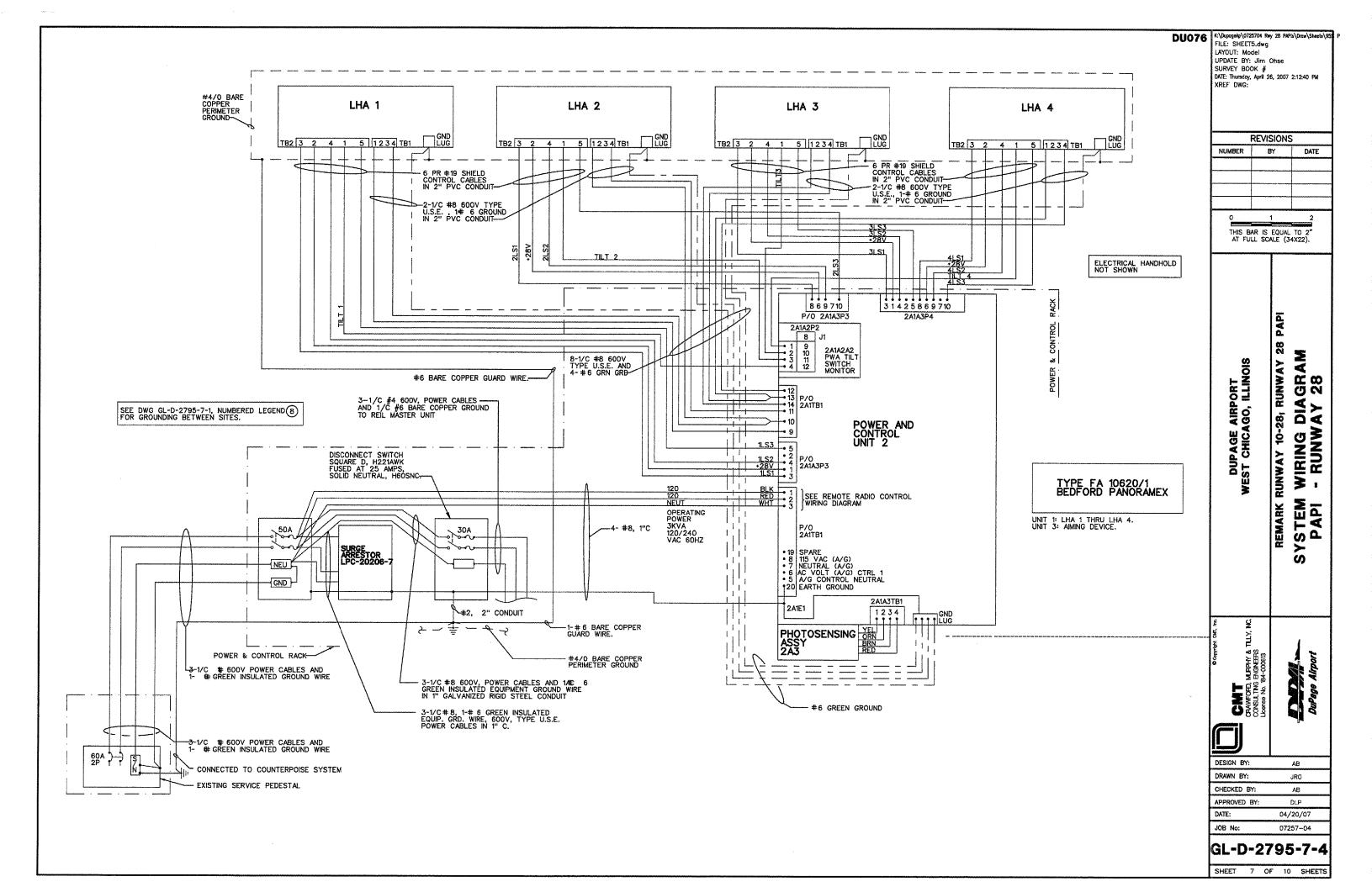


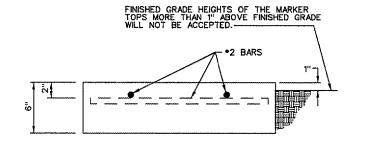
SHEET 4 OF 10 SHEETS



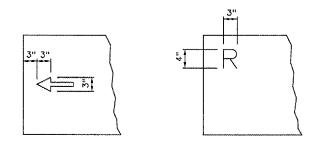


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SECTION 'A-A'



DETAIL "A"

DETAIL "B"

CABLE MARKER DETAILS SCALE: NONE

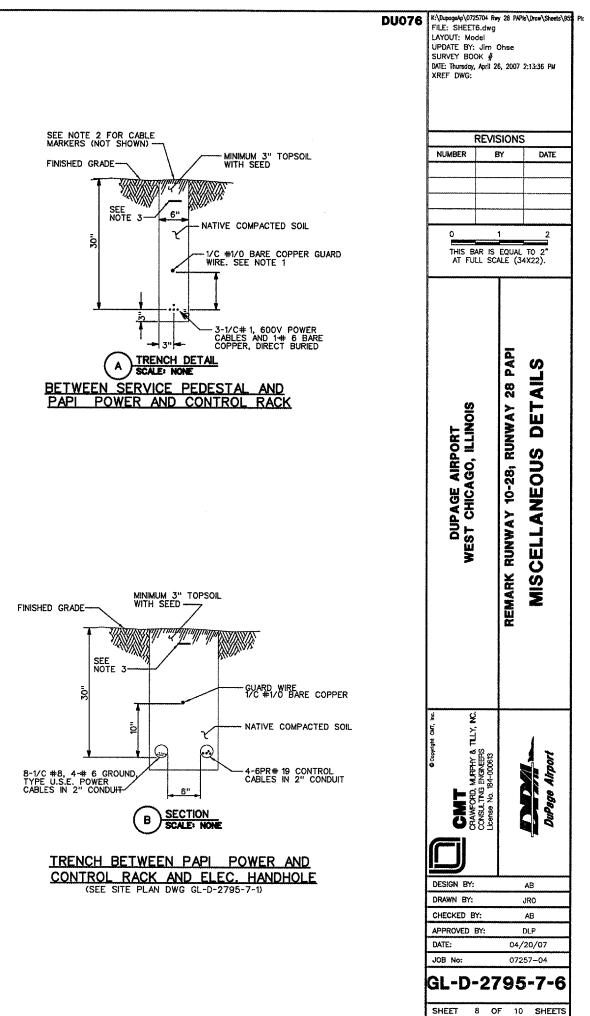


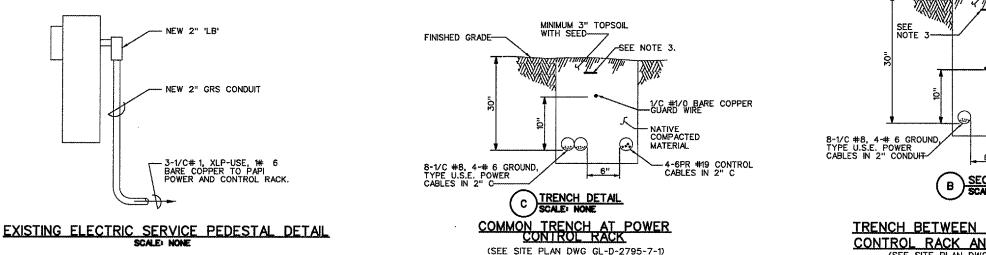
- 1. CONTRACTOR WAS RESPONSIBLE FOR LOCATING AND PROTECTING UTILITIES. THE CONTRACTOR HAND-DUG THE TRENCH IN THE VICINITY OF UNDERGROUND UTILITIES. ANY DAMAGE DONE TO UTILITIES WAS REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE GOVERNMENT.
- 2. CONTRACTOR INSTALLED CABLE MARKERS FOR BURIED CABLING PER SECT. 16F.3g OF SPEC. FAA-GL-918C AND DWG GL-D-5388G.
- 3, CONTRACTOR INSTALLED WARNING TAPE "CAUTION-UNDERGROUND CABLE". ALLEN SYSTEMS P.N. 0761315 OR EQUAL. INSTALLED 6" BELOW GRADE.
- 4. CONTRACTOR REPAIRED ALL DAMAGED SURFACES IN ACCORDANCE WITH FAA-GL-918C-2A.9d.

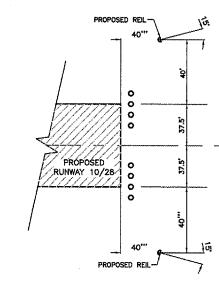
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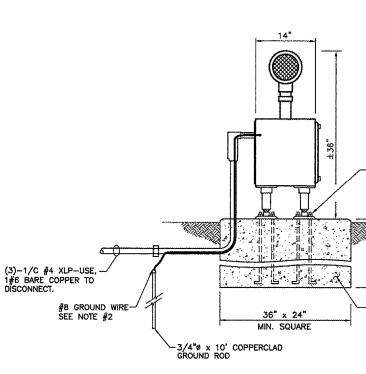
GROUND RODS NOT SHOWN IN TRENCH DETAILS.

SEE SITE PLAN FOR TRENCH TYPE LOCATION.





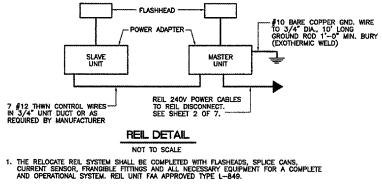




REIL DETAIL NOT TO SCALE

REIL NOTES

- THE BEAM CENTERLINE OF EACH LIGHT UNIT SHALL BE AIMED 15 DEGREES OUTWARD FROM A LINE PARALLEL TO RUNNWAY CENTERLINE AND INCLINED AT AN ANGLE 10 DEGREES ABOVE THE HORIZONTAL IF THIS ANGLE IS OPERATIONALLY OBJECTABLE, CONTRACTOR SHALL PROVIDE AN OPTICAL BAFFLE AND ORIENT THE BEAM AXIS OF UNIT 10 DEGREES OUTWARD FROM A LINE PARALLET TO THE RUNWAY CENTERLINE AND INCLINED AT AN ANGLE OF 3 DEGREES ABOVE THE HORIZONTAL AT NO ADDITIONAL COST.
- 2. ALL CONNECTIONS TO GROUND ROD SHALL BE ONE-SHOT EXOTHERMIC CADWELD OR EQUAL.
- REL MASTER AND SLAVE UNITS SHALL BE RELOCATED BY THE CONTRACTOR. ALL OTHER TEMS INCLUDING SPLICE CAN, GROUNDING, POWER AND CONTRO WIRES, AND CURRENT SENSOR SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.



2. THE CONTRACTOR SHALL INSTALL AND ADJUST CURRENT SENSOR AND ISOLATION TRANSFORMER FOR REIL'S TO OPERATE AT 100% BRIGHTNESS OF RUNWAY CIRCUIT ONLY.

N

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| TIEM 610 CONCRETE | | | THIS B | AR IS EQU | AL TO 2" | |
| CONCRETE S DEGREES 15 DEGREE | OR AS RECOMMENDED BY MANUFACTURER | | DUPAGE AIRPORT West Chicago. Illinois | REMARK RUNWAY 10-28, RUNWAY 28 PAPI | RUNWAY 28 REIL RELOCATION AND DETAILS | |
| INCLINED AT Inclined AT E is DESIGN BY: AB OPTICAL DRAWN BY: JRO INCAD FROM TA AN AT AN ANGLE DRAWN BY: JRO ST. CHECKED BY: AB CONTRACTOR. APPROVED BY: DLP CONTROL DATE: 04/20/07 ALLED BY THE JOB No: 07257-04 IL PROJECT: DPA-3695 A.I.P. PROJECT: 3-17-0017-B21 | | | CMT CONSTRAINED IN INC. | CONSULTING ENAMERS Liberes No. 184-000613 | DuPage Airport | |
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| SHEET 9 OF 10 SHEETS | | | | | | |
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