

CHICAGO EXECUTIVE AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS

CONSTRUCTION PLANS FOR

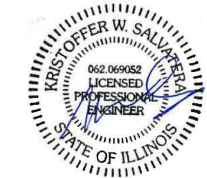
CHICAGO EXECUTIVE AIRPORT



REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALCMS

ILLINOIS PROJECT: PWK-4843
 S.B.G. PROJECT: 3-17-SBGP-TBD

DECEMBER 10, 2021



LICENSE EXPIRATION
 DATE: 02/28/2022
 DATE SIGNED: 12/9/2021



LICENSE EXPIRATION
 DATE: 02/28/2022
 DATE SIGNED: 12/9/2021

811 Know what's below.
 Call before you dig.
 J.U.L.I.E.
 JOINT UTILITY LOCATING
 INFORMATION FOR EXCAVATORS
 www.illinois1call.com

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACTUAL LOCATIONS OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF HIS OPERATIONAL PLANS, OBTAIN FROM RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION AND THE ONE-CALL NOTICE SYSTEM. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH UTILITY OR SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 811.

CHICAGO EXECUTIVE AIRPORT

TOWNSHIP: 42 NORTH WHEELING TOWNSHIP
 RANGE: 11 EAST (SECTION: 13)
 COOK COUNTY

CMT 20029004.00
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 062-069052

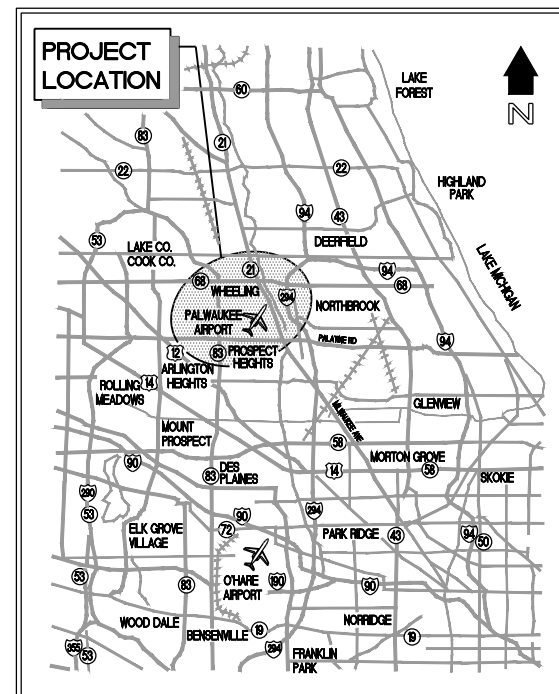
SUBMITTED BY _____
 KRIS SALVATERA, PE

DATE 12/10/2021

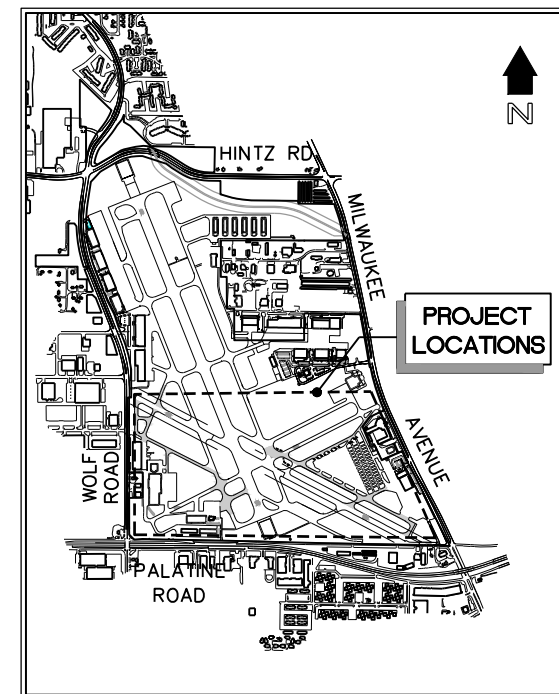
CHICAGO EXECUTIVE AIRPORT

APPROVED _____ EXECUTIVE DIRECTOR
 EFFRE J. MILLER

DATE 12/9/2021



LOCATION MAP



SITE PLAN

PROJECT INFORMATION

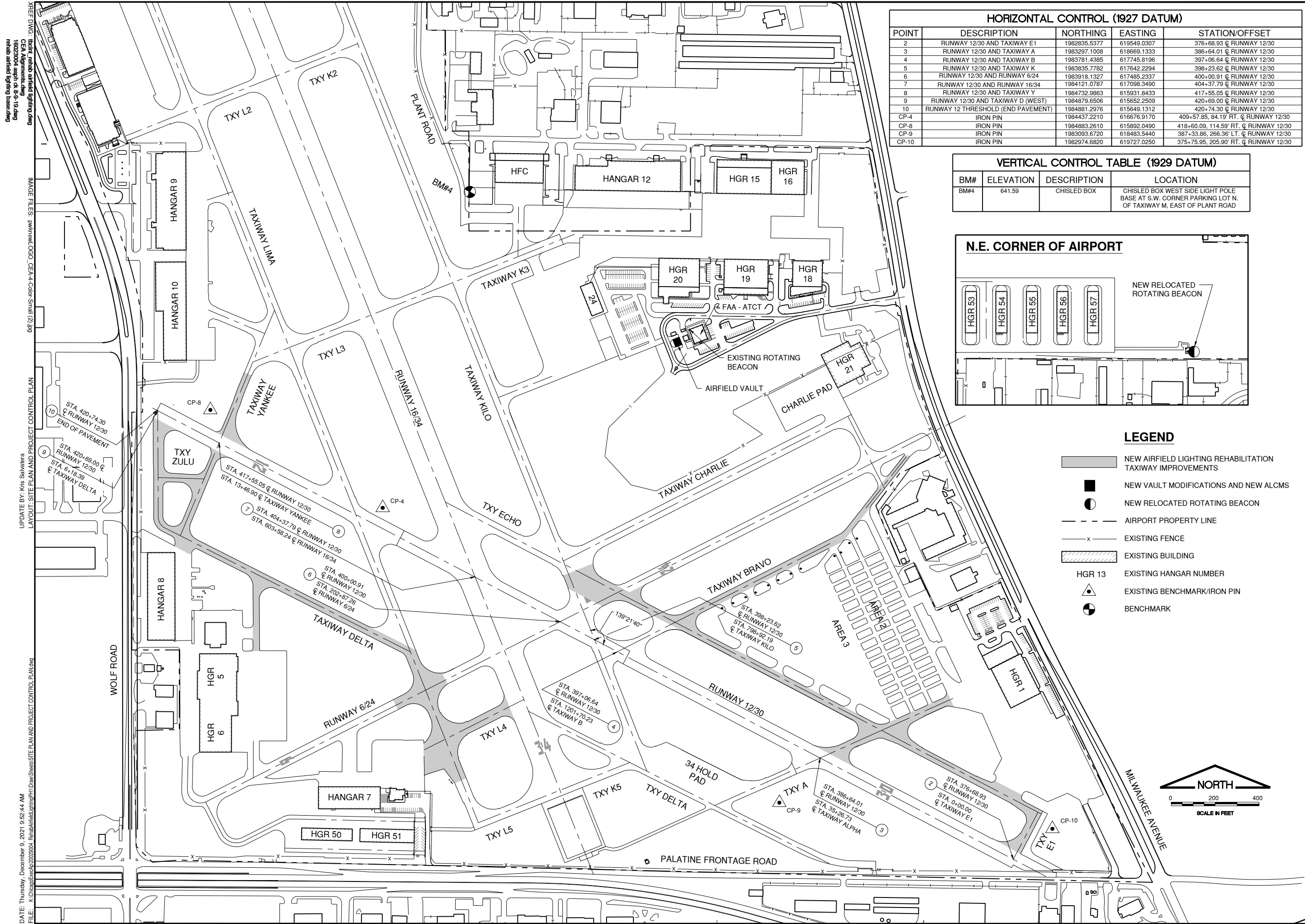
CONTRACTOR:
 RESIDENT ENGINEER:
 ORIGINAL CONTRACT AMOUNT:
 FINAL CONSTRUCTION COST:
 IDOT LETTING DATE:
 IDOT AWARD DATE:
 NOTICE TO PROCEED:
 START OF CONSTRUCTION:
 SUBSTANTIAL COMPLETION:

LOCAL AGENCY CONTACT INFORMATION

VILLAGE OF WHEELING - 847.459.2600
 CITY OF PROSPECT HEIGHTS - 847.398.6070

ENGINEER'S PROJECT PERMIT LOG

NPDES #
 FAA AIRSPACE #
 CCDD LPC-663 DATED
 MWRDGC PERMIT # 03-246 & RL 09-063
 VILLAGE APP FOR CONSTRUCTION PERMIT #
 VILLAGE FLOODPLAIN PERMIT #
 CONTRACTOR'S REGISTRATION WITH VILLAGE
 VILLAGE SITE ALTERATION PERMIT #
 CITY APPLICATION FOR PERMIT #
 CITY FLOODPLAIN PERMIT #
 CITY SITE GRADING PERMIT #
 CONTRACTOR'S REGISTRATION WITH CITY

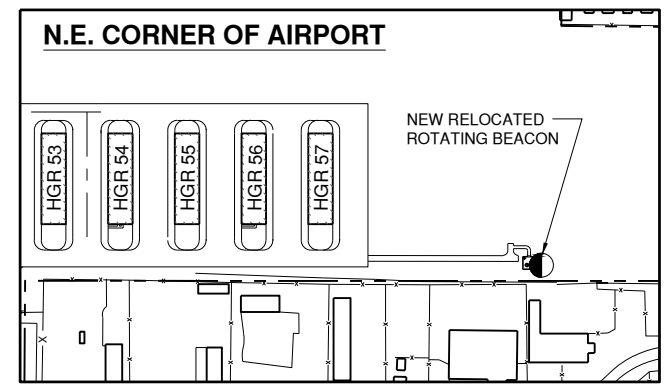


HORIZONTAL CONTROL (1927 DATUM)

POINT	DESCRIPTION	NORTHING	EASTING	STATION/OFFSET
2	RUNWAY 12/30 AND TAXIWAY E1	1982835.5377	619549.0307	376+68.93 @ RUNWAY 12/30
3	RUNWAY 12/30 AND TAXIWAY A	1983297.1008	618669.1333	386+64.01 @ RUNWAY 12/30
4	RUNWAY 12/30 AND TAXIWAY B	1983781.4385	617745.8196	397+06.64 @ RUNWAY 12/30
5	RUNWAY 12/30 AND TAXIWAY K	1983835.7782	617642.2294	398+23.62 @ RUNWAY 12/30
6	RUNWAY 12/30 AND RUNWAY 6/24	1983918.1327	617485.2337	400+00.91 @ RUNWAY 12/30
7	RUNWAY 12/30 AND RUNWAY 16/34	1984121.0787	617098.3490	404+37.79 @ RUNWAY 12/30
8	RUNWAY 12/30 AND TAXIWAY Y	1984732.9863	615931.8433	417+55.05 @ RUNWAY 12/30
9	RUNWAY 12/30 AND TAXIWAY D (WEST)	1984879.6506	615652.2509	420+69.00 @ RUNWAY 12/30
10	RUNWAY 12 THRESHOLD (END PAVEMENT)	1984881.2976	615649.1312	420+74.30 @ RUNWAY 12/30
CP-4	IRON PIN	1984437.2210	616676.9170	409+57.85, 84.19' RT. @ RUNWAY 12/30
CP-8	IRON PIN	1984883.2610	615892.0490	418+60.09, 114.59' RT. @ RUNWAY 12/30
CP-9	IRON PIN	1983093.6720	618483.5440	387+33.86, 266.36' L.T. @ RUNWAY 12/30
CP-10	IRON PIN	1982974.6820	619727.0250	375+75.95, 205.90' RT. @ RUNWAY 12/30

VERTICAL CONTROL TABLE (1929 DATUM)

BM#	ELEVATION	DESCRIPTION	LOCATION
BM#4	641.59	CHISLED BOX	CHISLED BOX WEST SIDE LIGHT POLE BASE AT S.W. CORNER PARKING LOT N. OF TAXIWAY M, EAST OF PLANT ROAD



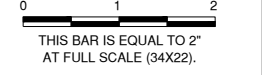
- LEGEND**
- NEW AIRFIELD LIGHTING REHABILITATION TAXIWAY IMPROVEMENTS
 - NEW VAULT MODIFICATIONS AND NEW ALCMS
 - NEW RELOCATED ROTATING BEACON
 - AIRPORT PROPERTY LINE
 - EXISTING FENCE
 - EXISTING BUILDING
 - EXISTING HANGAR NUMBER
 - EXISTING BENCHMARK/IRON PIN
 - BENCHMARK

IL CONTRACT: **PA063**
 IL LETTING ITEM: **12A**
 IL PROJECT: **PWK-4843**
 S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS

NUMBER	BY	DATE



CHICAGO EXECUTIVE AIRPORT
WHEELING/PROSPECT HEIGHTS, ILLINOIS
REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALCMS
SITE PLAN AND PROJECT CONTROL PLAN

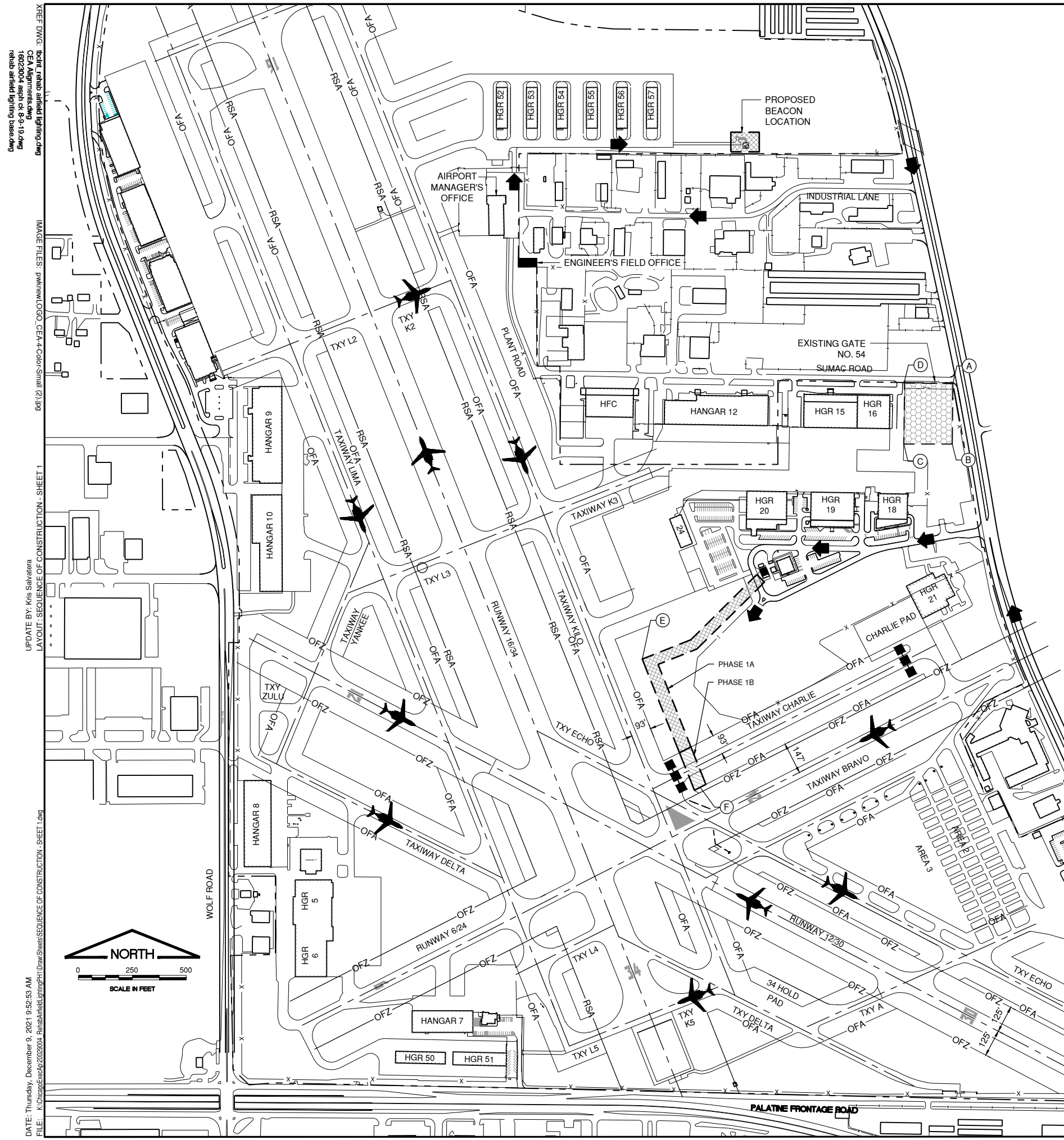
© Copyright CMT, Inc.

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

CHICAGO EXECUTIVE AIRPORT

DESIGN BY: KWS
 DRAWN BY: JRO
 CHECKED BY: KWS
 APPROVED BY: DKP
 DATE: 12/10/2021
 JOB No: 20029004.00

DATE: Thursday, December 9, 2021 9:52:44 AM
 FILE: K:\Chicago\2020\202004 - Rehabilitation\PH1\Draw\Sheets\Site Plan and Project Control Plan.dwg
 UPDATE BY: Kris Savaterra
 LAYOUT: SITE PLAN AND PROJECT CONTROL PLAN
 REF: D:\CMT\Projects\2020\PA063\PA063.dwg
 SCALE: 1"=200'
 PROJECT: PWK-4843
 SHEET: 3 OF 35



SUGGESTED SEQUENCE OF CONSTRUCTION (FOR ALL PHASES)

- NOTIFY RESIDENT ENGINEER/AIRPORT MANAGER 10 DAYS PRIOR TO START OF CONSTRUCTION TO ISSUE NOTAMS
- COORDINATE WITH RESIDENT ENGINEER AND AIRPORT MANGER FOR REQUIRED PAVEMENT CLOSURES FOR WORK AREA.
- PLACE REQUIRED BARRICADES AND PAVEMENT CLOSURE MARKERS
- MEGGER AIRFIELD CIRCUITS
- DE-ENERGIZE CIRCUITS FOR CLOSED PAVEMENTS
- INSTALL TEMPORARY CABLING/DE-ENERGIZE TAXIWAY CIRCUIT OR COVER LIGHT FIXTURE IN SUCH A WAY TO PREVENT LIGHT LEAKAGE WITHIN WORK AREA LIMITS
- INSTALL EROSION CONTROL ITEMS
- COMPLETE NEW REHABILITATE LIGHTING, SIGNAGE AND MISCELLANEOUS IMPROVEMENTS
- COMPLETE TOPSOILING, SEEDING AND MULCHING AROUND SIGNS TO MEET RSA/TSA GRADING
- REMOVE TEMPORARY CABLING AND RE-ENERGIZE CIRCUITS WITHIN WORK AREA LIMITS AND RE-MEGGER AIRFIELD CIRCUITS
- COORDINATE WITH RESIDENT ENGINEER AND AIRPORT MANAGER PAVEMENT CLOSURES FOR NEXT WORK AREA
- CLEAN PAVEMENTS, RESTORE DISTURBED WORK AREAS AND REMOVE MISCELLANEOUS DEBRIS FROM WORK AREA
- RELOCATE BARRICADES AND PAVEMENT CLOSURE MARKERS FOR NEXT WORK AREA
- RESTORE STAGING AREAS

PHASE	FACILITY STATUS - OPEN	FACILITY STATUS - CLOSED
1A	ALL RUNWAYS AND TAXIWAYS OPEN	NONE
1B	RUNWAYS 16/34, 12/30 AND 6/24 TAXIWAYS A, B, D, E, E1, K, K1, K2, K3, L, L1, L2, L3, L4, P, Q, Y, AND Z	TAXIWAY C

PHASE 1A - SEQUENCE OF CONSTRUCTION

- COORDINATE ACCESS TO THE AIRFIELD, AIRFIELD ELECTRICAL VAULT, AIR TRAFFIC CONTROL TOWER, AND THE PROPOSED BEACON LOCATION.
- ALL ACCESS TO THE FAA FACILITIES SHALL BE AT THE APPROVAL OF FAA.
- CONSTRUCT PROPOSED IMPROVEMENTS IN PHASE 1A WORK AREA INCLUDING AIRFIELD LIGHTING, VAULT MODIFICATIONS, NEW ALCMS, AND RELOCATE BEACON.

PHASE 1B - SEQUENCE OF CONSTRUCTION

- COORDINATE CLOSURE OF TAXIWAY C WITH RESIDENT ENGINEER.
- MARK AIR OPERATIONS AREA (A.O.A.) WITH LATHE AND RIBBON AND PLACE BARRICADES FOR TAXIWAY CLOSURES.
- CONSTRUCT PROPOSED IMPROVEMENTS IN PHASE 1B WORK AREA INCLUDING AIRFIELD LIGHTING.
- UPON COMPLETION OF WORK ITEMS, CLEAN PAVEMENTS, REMOVE BARRICADES, AND OPEN TAXIWAY C.

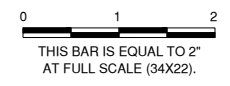
LEGEND

- PHASE 1A WORK AREA
- PHASE 1B WORK AREA
- CONTRACTOR'S EMPLOYEE PARKING, STAGING, AND EQUIPMENT STORAGE AREA
- AIRCRAFT MOVEMENT AREA
- LOW PROFILE BARRICADES WITH SIGNS FOR WORK AREA - PHASE 1B ("DO NOT ENTER" AND "AIRCRAFT MOVEMENT AREA")
- OFZ - RUNWAY OBSTACLE FREE ZONE (ROFZ)
- RSA - RUNWAY SAFETY AREA (RSA)
- OFA - TAXIWAY OBJECT FREE AREA (OFA)
- CRITICAL POINT
- TEMPORARY CLOSED RUNWAY MARKER
- CONTRACTOR'S ACCESS/HAUL ROAD

IL CONTRACT: **PA063**
 IL LETTING ITEM: **12A**
 IL PROJECT: **PWK-4843**
 S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS		
NUMBER	BY	DATE



CHICAGO EXECUTIVE AIRPORT
WHEELING/PROSPECT HEIGHTS, ILLINOIS
REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALCMS
SEQUENCE OF CONSTRUCTION - SHEET 1

© Copyright CMT, Inc.

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

CHICAGO EXECUTIVE AIRPORT

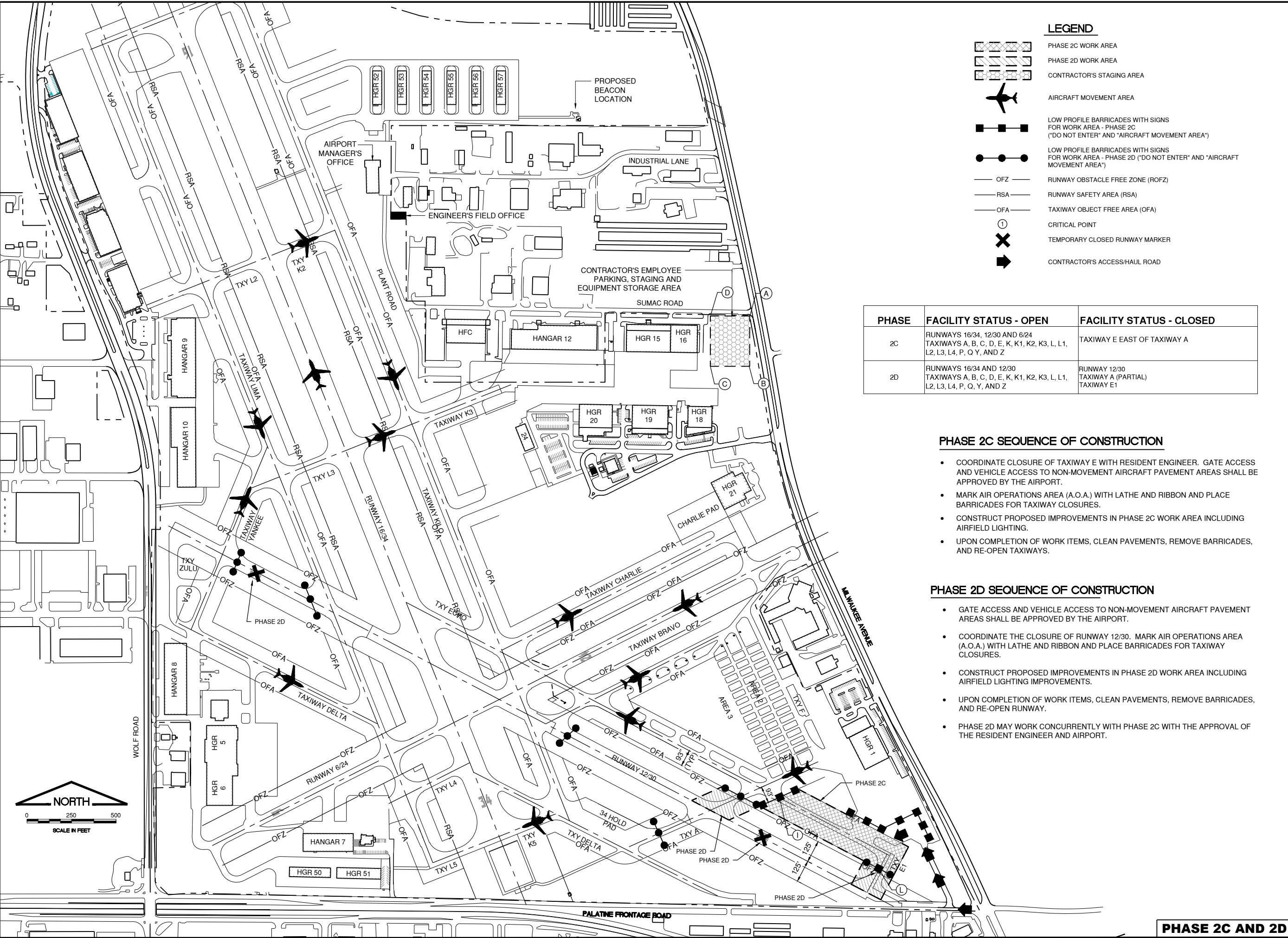
DESIGN BY:	KWS
DRAWN BY:	JRO
CHECKED BY:	KWS
APPROVED BY:	DKP
DATE:	12/10/2021
JOB No:	20029004.00

FINAL

SHEET 4 OF 35 SHEETS

DATE: Thursday, December 9, 2021 9:52:53 AM
 FILE: K:\ChicagoExecAp\202004_ParkSheds\SEQUENCE OF CONSTRUCTION - SHEET 1.dwg
 UPDATE BY: Kris Salvatori
 LAYOUT: SEQUENCE OF CONSTRUCTION - SHEET 1
 REFERENCE: 1. Airport Manager's Office
 2. Engineer's Field Office
 3. Industrial Lane
 4. Existing Gate No. 54
 5. Sumac Road
 6. Palatine Frontage Road
 7. Wolf Road
 8. Mr. Wake Aisle
 9. Taxiway Charlie
 10. Taxiway Bravo
 11. Taxiway Delta
 12. Taxiway Echo
 13. Taxiway Zulu
 14. Taxiway Yankee
 15. Taxiway Lima
 16. Taxiway Kilo
 17. Taxiway Golf
 18. Taxiway Foxtrot
 19. Taxiway Uniform
 20. Taxiway Victor
 21. Taxiway Oscar
 22. Taxiway Papa
 23. Taxiway Quebec
 24. Taxiway Romeo
 25. Taxiway Sierra
 26. Taxiway Tango
 27. Taxiway Uniform
 28. Taxiway Victor
 29. Taxiway Oscar
 30. Taxiway Papa
 31. Taxiway Quebec
 32. Taxiway Romeo
 33. Taxiway Sierra
 34. Taxiway Tango
 35. Taxiway Uniform
 36. Taxiway Victor
 37. Taxiway Oscar
 38. Taxiway Papa
 39. Taxiway Quebec
 40. Taxiway Romeo
 41. Taxiway Sierra
 42. Taxiway Tango
 43. Taxiway Uniform
 44. Taxiway Victor
 45. Taxiway Oscar
 46. Taxiway Papa
 47. Taxiway Quebec
 48. Taxiway Romeo
 49. Taxiway Sierra
 50. Taxiway Tango
 51. Taxiway Uniform
 52. Taxiway Victor
 53. Taxiway Oscar
 54. Taxiway Papa
 55. Taxiway Quebec
 56. Taxiway Romeo
 57. Taxiway Sierra
 58. Taxiway Tango
 59. Taxiway Uniform
 60. Taxiway Victor
 61. Taxiway Oscar
 62. Taxiway Papa
 63. Taxiway Quebec
 64. Taxiway Romeo
 65. Taxiway Sierra
 66. Taxiway Tango
 67. Taxiway Uniform
 68. Taxiway Victor
 69. Taxiway Oscar
 70. Taxiway Papa
 71. Taxiway Quebec
 72. Taxiway Romeo
 73. Taxiway Sierra
 74. Taxiway Tango
 75. Taxiway Uniform
 76. Taxiway Victor
 77. Taxiway Oscar
 78. Taxiway Papa
 79. Taxiway Quebec
 80. Taxiway Romeo
 81. Taxiway Sierra
 82. Taxiway Tango
 83. Taxiway Uniform
 84. Taxiway Victor
 85. Taxiway Oscar
 86. Taxiway Papa
 87. Taxiway Quebec
 88. Taxiway Romeo
 89. Taxiway Sierra
 90. Taxiway Tango
 91. Taxiway Uniform
 92. Taxiway Victor
 93. Taxiway Oscar
 94. Taxiway Papa
 95. Taxiway Quebec
 96. Taxiway Romeo
 97. Taxiway Sierra
 98. Taxiway Tango
 99. Taxiway Uniform
 100. Taxiway Victor
 101. Taxiway Oscar
 102. Taxiway Papa
 103. Taxiway Quebec
 104. Taxiway Romeo
 105. Taxiway Sierra
 106. Taxiway Tango
 107. Taxiway Uniform
 108. Taxiway Victor
 109. Taxiway Oscar
 110. Taxiway Papa
 111. Taxiway Quebec
 112. Taxiway Romeo
 113. Taxiway Sierra
 114. Taxiway Tango
 115. Taxiway Uniform
 116. Taxiway Victor
 117. Taxiway Oscar
 118. Taxiway Papa
 119. Taxiway Quebec
 120. Taxiway Romeo
 121. Taxiway Sierra
 122. Taxiway Tango
 123. Taxiway Uniform
 124. Taxiway Victor
 125. Taxiway Oscar
 126. Taxiway Papa
 127. Taxiway Quebec
 128. Taxiway Romeo
 129. Taxiway Sierra
 130. Taxiway Tango
 131. Taxiway Uniform
 132. Taxiway Victor
 133. Taxiway Oscar
 134. Taxiway Papa
 135. Taxiway Quebec
 136. Taxiway Romeo
 137. Taxiway Sierra
 138. Taxiway Tango
 139. Taxiway Uniform
 140. Taxiway Victor
 141. Taxiway Oscar
 142. Taxiway Papa
 143. Taxiway Quebec
 144. Taxiway Romeo
 145. Taxiway Sierra
 146. Taxiway Tango
 147. Taxiway Uniform
 148. Taxiway Victor
 149. Taxiway Oscar
 150. Taxiway Papa
 151. Taxiway Quebec
 152. Taxiway Romeo
 153. Taxiway Sierra
 154. Taxiway Tango
 155. Taxiway Uniform
 156. Taxiway Victor
 157. Taxiway Oscar
 158. Taxiway Papa
 159. Taxiway Quebec
 160. Taxiway Romeo
 161. Taxiway Sierra
 162. Taxiway Tango
 163. Taxiway Uniform
 164. Taxiway Victor
 165. Taxiway Oscar
 166. Taxiway Papa
 167. Taxiway Quebec
 168. Taxiway Romeo
 169. Taxiway Sierra
 170. Taxiway Tango
 171. Taxiway Uniform
 172. Taxiway Victor
 173. Taxiway Oscar
 174. Taxiway Papa
 175. Taxiway Quebec
 176. Taxiway Romeo
 177. Taxiway Sierra
 178. Taxiway Tango
 179. Taxiway Uniform
 180. Taxiway Victor
 181. Taxiway Oscar
 182. Taxiway Papa
 183. Taxiway Quebec
 184. Taxiway Romeo
 185. Taxiway Sierra
 186. Taxiway Tango
 187. Taxiway Uniform
 188. Taxiway Victor
 189. Taxiway Oscar
 190. Taxiway Papa
 191. Taxiway Quebec
 192. Taxiway Romeo
 193. Taxiway Sierra
 194. Taxiway Tango
 195. Taxiway Uniform
 196. Taxiway Victor
 197. Taxiway Oscar
 198. Taxiway Papa
 199. Taxiway Quebec
 200. Taxiway Romeo
 201. Taxiway Sierra
 202. Taxiway Tango
 203. Taxiway Uniform
 204. Taxiway Victor
 205. Taxiway Oscar
 206. Taxiway Papa
 207. Taxiway Quebec
 208. Taxiway Romeo
 209. Taxiway Sierra
 210. Taxiway Tango
 211. Taxiway Uniform
 212. Taxiway Victor
 213. Taxiway Oscar
 214. Taxiway Papa
 215. Taxiway Quebec
 216. Taxiway Romeo
 217. Taxiway Sierra
 218. Taxiway Tango
 219. Taxiway Uniform
 220. Taxiway Victor
 221. Taxiway Oscar
 222. Taxiway Papa
 223. Taxiway Quebec
 224. Taxiway Romeo
 225. Taxiway Sierra
 226. Taxiway Tango
 227. Taxiway Uniform
 228. Taxiway Victor
 229. Taxiway Oscar
 230. Taxiway Papa
 231. Taxiway Quebec
 232. Taxiway Romeo
 233. Taxiway Sierra
 234. Taxiway Tango
 235. Taxiway Uniform
 236. Taxiway Victor
 237. Taxiway Oscar
 238. Taxiway Papa
 239. Taxiway Quebec
 240. Taxiway Romeo
 241. Taxiway Sierra
 242. Taxiway Tango
 243. Taxiway Uniform
 244. Taxiway Victor
 245. Taxiway Oscar
 246. Taxiway Papa
 247. Taxiway Quebec
 248. Taxiway Romeo
 249. Taxiway Sierra
 250. Taxiway Tango
 251. Taxiway Uniform
 252. Taxiway Victor
 253. Taxiway Oscar
 254. Taxiway Papa
 255. Taxiway Quebec
 256. Taxiway Romeo
 257. Taxiway Sierra
 258. Taxiway Tango
 259. Taxiway Uniform
 260. Taxiway Victor
 261. Taxiway Oscar
 262. Taxiway Papa
 263. Taxiway Quebec
 264. Taxiway Romeo
 265. Taxiway Sierra
 266. Taxiway Tango
 267. Taxiway Uniform
 268. Taxiway Victor
 269. Taxiway Oscar
 270. Taxiway Papa
 271. Taxiway Quebec
 272. Taxiway Romeo
 273. Taxiway Sierra
 274. Taxiway Tango
 275. Taxiway Uniform
 276. Taxiway Victor
 277. Taxiway Oscar
 278. Taxiway Papa
 279. Taxiway Quebec
 280. Taxiway Romeo
 281. Taxiway Sierra
 282. Taxiway Tango
 283. Taxiway Uniform
 284. Taxiway Victor
 285. Taxiway Oscar
 286. Taxiway Papa
 287. Taxiway Quebec
 288. Taxiway Romeo
 289. Taxiway Sierra
 290. Taxiway Tango
 291. Taxiway Uniform
 292. Taxiway Victor
 293. Taxiway Oscar
 294. Taxiway Papa
 295. Taxiway Quebec
 296. Taxiway Romeo
 297. Taxiway Sierra
 298. Taxiway Tango
 299. Taxiway Uniform
 300. Taxiway Victor
 301. Taxiway Oscar
 302. Taxiway Papa
 303. Taxiway Quebec
 304. Taxiway Romeo
 305. Taxiway Sierra
 306. Taxiway Tango
 307. Taxiway Uniform
 308. Taxiway Victor
 309. Taxiway Oscar
 310. Taxiway Papa
 311. Taxiway Quebec
 312. Taxiway Romeo
 313. Taxiway Sierra
 314. Taxiway Tango
 315. Taxiway Uniform
 316. Taxiway Victor
 317. Taxiway Oscar
 318. Taxiway Papa
 319. Taxiway Quebec
 320. Taxiway Romeo
 321. Taxiway Sierra
 322. Taxiway Tango
 323. Taxiway Uniform
 324. Taxiway Victor
 325. Taxiway Oscar
 326. Taxiway Papa
 327. Taxiway Quebec
 328. Taxiway Romeo
 329. Taxiway Sierra
 330. Taxiway Tango
 331. Taxiway Uniform
 332. Taxiway Victor
 333. Taxiway Oscar
 334. Taxiway Papa
 335. Taxiway Quebec
 336. Taxiway Romeo
 337. Taxiway Sierra
 338. Taxiway Tango
 339. Taxiway Uniform
 340. Taxiway Victor
 341. Taxiway Oscar
 342. Taxiway Papa
 343. Taxiway Quebec
 344. Taxiway Romeo
 345. Taxiway Sierra
 346. Taxiway Tango
 347. Taxiway Uniform
 348. Taxiway Victor
 349. Taxiway Oscar
 350. Taxiway Papa
 351. Taxiway Quebec
 352. Taxiway Romeo
 353. Taxiway Sierra
 354. Taxiway Tango
 355. Taxiway Uniform
 356. Taxiway Victor
 357. Taxiway Oscar
 358. Taxiway Papa
 359. Taxiway Quebec
 360. Taxiway Romeo
 361. Taxiway Sierra
 362. Taxiway Tango
 363. Taxiway Uniform
 364. Taxiway Victor
 365. Taxiway Oscar
 366. Taxiway Papa
 367. Taxiway Quebec
 368. Taxiway Romeo
 369. Taxiway Sierra
 370. Taxiway Tango
 371. Taxiway Uniform
 372. Taxiway Victor
 373. Taxiway Oscar
 374. Taxiway Papa
 375. Taxiway Quebec
 376. Taxiway Romeo
 377. Taxiway Sierra
 378. Taxiway Tango
 379. Taxiway Uniform
 380. Taxiway Victor
 381. Taxiway Oscar
 382. Taxiway Papa
 383. Taxiway Quebec
 384. Taxiway Romeo
 385. Taxiway Sierra
 386. Taxiway Tango
 387. Taxiway Uniform
 388. Taxiway Victor
 389. Taxiway Oscar
 390. Taxiway Papa
 391. Taxiway Quebec
 392. Taxiway Romeo
 393. Taxiway Sierra
 394. Taxiway Tango
 395. Taxiway Uniform
 396. Taxiway Victor
 397. Taxiway Oscar
 398. Taxiway Papa
 399. Taxiway Quebec
 400. Taxiway Romeo
 401. Taxiway Sierra
 402. Taxiway Tango
 403. Taxiway Uniform
 404. Taxiway Victor
 405. Taxiway Oscar
 406. Taxiway Papa
 407. Taxiway Quebec
 408. Taxiway Romeo
 409. Taxiway Sierra
 410. Taxiway Tango
 411. Taxiway Uniform
 412. Taxiway Victor
 413. Taxiway Oscar
 414. Taxiway Papa
 415. Taxiway Quebec
 416. Taxiway Romeo
 417. Taxiway Sierra
 418. Taxiway Tango
 419. Taxiway Uniform
 420. Taxiway Victor
 421. Taxiway Oscar
 422. Taxiway Papa
 423. Taxiway Quebec
 424. Taxiway Romeo
 425. Taxiway Sierra
 426. Taxiway Tango
 427. Taxiway Uniform
 428. Taxiway Victor
 429. Taxiway Oscar
 430. Taxiway Papa
 431. Taxiway Quebec
 432. Taxiway Romeo
 433. Taxiway Sierra
 434. Taxiway Tango
 435. Taxiway Uniform
 436. Taxiway Victor
 437. Taxiway Oscar
 438. Taxiway Papa
 439. Taxiway Quebec
 440. Taxiway Romeo
 441. Taxiway Sierra
 442. Taxiway Tango
 443. Taxiway Uniform
 444. Taxiway Victor
 445. Taxiway Oscar
 446. Taxiway Papa
 447. Taxiway Quebec
 448. Taxiway Romeo
 449. Taxiway Sierra
 450. Taxiway Tango
 451. Taxiway Uniform
 452. Taxiway Victor
 453. Taxiway Oscar
 454. Taxiway Papa
 455. Taxiway Quebec
 456. Taxiway Romeo
 457. Taxiway Sierra
 458. Taxiway Tango
 459. Taxiway Uniform
 460. Taxiway Victor
 461. Taxiway Oscar
 462. Taxiway Papa
 463. Taxiway Quebec
 464. Taxiway Romeo
 465. Taxiway Sierra
 466. Taxiway Tango
 467. Taxiway Uniform
 468. Taxiway Victor
 469. Taxiway Oscar
 470. Taxiway Papa
 471. Taxiway Quebec
 472. Taxiway Romeo
 473. Taxiway Sierra
 474. Taxiway Tango
 475. Taxiway Uniform
 476. Taxiway Victor
 477. Taxiway Oscar
 478. Taxiway Papa
 479. Taxiway Quebec
 480. Taxiway Romeo
 481. Taxiway Sierra
 482. Taxiway Tango
 483. Taxiway Uniform
 484. Taxiway Victor
 485. Taxiway Oscar
 486. Taxiway Papa
 487. Taxiway Quebec
 488. Taxiway Romeo
 489. Taxiway Sierra
 490. Taxiway Tango
 491. Taxiway Uniform
 492. Taxiway Victor
 493. Taxiway Oscar
 494. Taxiway Papa
 495. Taxiway Quebec
 496. Taxiway Romeo
 497. Taxiway Sierra
 498. Taxiway Tango
 499. Taxiway Uniform
 500. Taxiway Victor
 501. Taxiway Oscar
 502. Taxiway Papa
 503. Taxiway Quebec
 504. Taxiway Romeo
 505. Taxiway Sierra
 506. Taxiway Tango
 507. Taxiway Uniform
 508. Taxiway Victor
 509. Taxiway Oscar
 510. Taxiway Papa
 511. Taxiway Quebec
 512. Taxiway Romeo
 513. Taxiway Sierra
 514. Taxiway Tango
 515. Taxiway Uniform
 516. Taxiway Victor
 517. Taxiway Oscar
 518. Taxiway Papa
 519. Taxiway Quebec
 520. Taxiway Romeo
 521. Taxiway Sierra
 522. Taxiway Tango
 523. Taxiway Uniform
 524. Taxiway Victor
 525. Taxiway Oscar
 526. Taxiway Papa
 527. Taxiway Quebec
 528. Taxiway Romeo
 529. Taxiway Sierra
 530. Taxiway Tango
 531. Taxiway Uniform
 532. Taxiway Victor
 533. Taxiway Oscar
 534. Taxiway Papa
 535. Taxiway Quebec
 536. Taxiway Romeo
 537. Taxiway Sierra
 538. Taxiway Tango
 539. Taxiway Uniform
 540. Taxiway Victor
 541. Taxiway Oscar
 542. Taxiway Papa
 543. Taxiway Quebec
 544. Taxiway Romeo
 545. Taxiway Sierra
 546. Taxiway Tango
 547. Taxiway Uniform
 548. Taxiway Victor
 549. Taxiway Oscar
 550. Taxiway Papa
 551. Taxiway Quebec
 552. Taxiway Romeo
 553. Taxiway Sierra
 554. Taxiway Tango
 555. Taxiway Uniform
 556. Taxiway Victor
 557. Taxiway Oscar
 558. Taxiway Papa
 559. Taxiway Quebec
 560. Taxiway Romeo
 561. Taxiway Sierra
 562. Taxiway Tango
 563. Taxiway Uniform
 564. Taxiway Victor
 565. Taxiway Oscar
 566. Taxiway Papa
 567. Taxiway Quebec
 568. Taxiway Romeo
 569. Taxiway Sierra
 570. Taxiway Tango
 571. Taxiway Uniform
 572. Taxiway Victor
 573. Taxiway Oscar
 574. Taxiway Papa
 575. Taxiway Quebec
 576. Taxiway Romeo
 577. Taxiway Sierra
 578. Taxiway Tango
 579. Taxiway Uniform
 580. Taxiway Victor
 581. Taxiway Oscar
 582. Taxiway Papa
 583. Taxiway Quebec
 584. Taxiway Romeo
 585. Taxiway Sierra
 586. Taxiway Tango
 587. Taxiway Uniform
 588. Taxiway Victor
 589. Taxiway Oscar
 590. Taxiway Papa
 591. Taxiway Quebec
 592. Taxiway Romeo
 593. Taxiway Sierra
 594. Taxiway Tango
 595. Taxiway Uniform
 596. Taxiway Victor
 597. Taxiway Oscar
 598. Taxiway Papa
 599. Taxiway Quebec
 600. Taxiway Romeo
 601. Taxiway Sierra
 602. Taxiway Tango
 603. Taxiway Uniform
 604. Taxiway Victor
 605. Taxiway Oscar
 606. Taxiway Papa
 607. Taxiway Quebec
 608. Taxiway Romeo
 609. Taxiway Sierra
 610. Taxiway Tango
 611. Taxiway Uniform
 612. Taxiway Victor
 613. Taxiway Oscar
 614. Taxiway Papa
 615. Taxiway Quebec
 616. Taxiway Romeo
 617. Taxiway Sierra
 618. Taxiway Tango
 619. Taxiway Uniform
 620. Taxiway Victor
 621. Taxiway Oscar
 622. Taxiway Papa
 623. Taxiway Quebec
 624. Taxiway Romeo
 625. Taxiway Sierra
 626. Taxiway Tango
 627. Taxiway Uniform
 628. Taxiway Victor
 629. Taxiway Oscar
 630. Taxiway Papa
 631. Taxiway Quebec
 632. Taxiway Romeo
 633. Taxiway Sierra
 634. Taxiway Tango
 635. Taxiway Uniform
 636. Taxiway Victor
 637. Taxiway Oscar
 638. Taxiway Papa
 639. Taxiway Quebec
 640. Taxiway Romeo
 641. Taxiway Sierra
 642. Taxiway Tango
 643. Taxiway Uniform
 644. Taxiway Victor
 645. Taxiway Oscar
 646. Taxiway Papa
 647. Taxiway Quebec
 648. Taxiway Romeo
 649. Taxiway Sierra
 650. Taxiway Tango
 651. Taxiway Uniform
 652. Taxiway Victor
 653. Taxiway Oscar
 654. Taxiway Papa
 655. Taxiway Quebec
 656. Taxiway Romeo
 657. Taxiway Sierra
 658. Taxiway Tango
 659. Taxiway Uniform
 660. Taxiway Victor
 661. Taxiway Oscar
 662. Taxiway Papa
 663. Taxiway Quebec
 664. Taxiway Romeo
 665. Taxiway Sierra
 666. Taxiway Tango
 667. Taxiway Uniform
 668. Taxiway Victor
 669. Taxiway Oscar
 670. Taxiway Papa
 671. Taxiway Quebec
 672. Taxiway Romeo
 673. Taxiway Sierra
 674. Taxiway Tango
 675. Taxiway Uniform
 676. Taxiway Victor
 677. Taxiway Oscar
 678. Taxiway Papa
 679. Taxiway Quebec
 680. Taxiway Romeo
 681. Taxiway Sierra
 682. Taxiway Tango
 683. Taxiway Uniform
 684. Taxiway Victor
 685. Taxiway Oscar
 686. Taxiway Papa
 687. Taxiway Quebec
 688. Taxiway Romeo
 689. Taxiway Sierra
 690. Taxiway Tango
 691. Taxiway Uniform
 692. Taxiway Victor
 693. Taxiway Oscar
 694. Taxiway Papa
 695. Taxiway Quebec
 696. Taxiway Romeo
 697. Taxiway Sierra
 698. Taxiway Tango
 699. Taxiway Uniform
 700. Taxiway Victor
 701. Taxiway Oscar
 702. Taxiway Papa
 703. Taxiway Quebec
 704. Taxiway Romeo
 705. Taxiway Sierra
 706. Taxiway Tango
 707. Taxiway Uniform
 708. Taxiway Victor
 709. Taxiway Oscar
 710. Taxiway Papa
 711. Taxiway Quebec
 712. Taxiway Romeo
 713. Taxiway Sierra
 714. Taxiway Tango
 715. Taxiway Uniform
 716. Taxiway Victor
 717. Taxiway Oscar
 718. Taxiway Papa
 719. Taxiway Quebec
 720. Taxiway Romeo
 721. Taxiway Sierra
 722. Taxiway Tango
 723. Taxiway Uniform
 724. Taxiway Victor
 725. Taxiway Oscar
 726. Taxiway Papa
 727. Taxiway Quebec
 728. Taxiway Romeo
 729. Taxiway Sierra
 730. Taxiway Tango
 731. Taxiway Uniform
 732. Taxiway Victor
 733. Taxiway Oscar
 734. Taxiway Papa
 735. Taxiway Quebec
 736. Taxiway Romeo
 737. Taxiway Sierra
 738. Taxiway Tango
 739. Taxiway Uniform
 740. Taxiway Victor
 741. Taxiway Oscar
 742. Taxiway Papa
 743. Taxiway Quebec
 744. Taxiway Romeo
 745. Taxiway Sierra
 746. Taxiway Tango
 747. Taxiway Uniform
 748. Taxiway Victor
 749. Taxiway Oscar
 750. Taxiway Papa
 751. Taxiway Quebec
 752. Taxiway Romeo
 753. Taxiway Sierra
 754. Taxiway Tango
 755. Taxiway Uniform
 756. Taxiway Victor
 757. Taxiway Oscar
 758. Taxiway Papa
 759. Taxiway Quebec
 760. Taxiway Romeo
 761. Taxiway Sierra
 762. Taxiway Tango
 763. Taxiway Uniform
 764. Taxiway Victor
 765. Taxiway Oscar
 766. Taxiway Papa
 767. Taxiway Quebec
 768. Taxiway Romeo
 769. Taxiway Sierra
 770. Taxiway Tango
 771. Taxiway Uniform
 772. Taxiway Victor
 773. Taxiway Oscar
 774. Taxiway Papa
 775. Taxiway Quebec
 776. Taxiway Romeo
 777. Taxiway Sierra
 778. Taxiway Tango
 779. Taxiway Uniform
 780. Taxiway Victor
 781. Taxiway Oscar
 782. Taxiway Papa
 783. Taxiway Quebec
 784. Taxiway Romeo
 785. Taxiway Sierra
 786. Taxiway Tango
 787. Taxiway Uniform
 788. Taxiway Victor
 789. Taxiway Oscar
 790. Taxiway Papa
 791. Taxiway Quebec
 792. Taxiway Romeo
 793. Taxiway Sierra
 794. Taxiway Tango
 795. Taxiway Uniform
 796. Taxiway Victor
 797. Taxiway Oscar
 798. Taxiway Papa
 799. Taxiway Quebec
 800. Taxiway Romeo
 801. Taxiway Sierra
 802. Taxiway Tango
 803. Taxiway Uniform
 804. Taxiway Victor
 805. Taxiway Oscar
 806. Taxiway Papa
 807. Taxiway Quebec
 808. Taxiway Romeo
 809. Taxiway Sierra
 810. Taxiway Tango
 811. Taxiway Uniform
 812. Taxiway Victor
 813. Taxiway Oscar
 814. Taxiway Papa
 815. Taxiway Quebec
 816. Taxiway Romeo
 817. Taxi

DATE: Thursday, December 9, 2021 9:53:13 AM
 FILE: K:\ChicagoExecAirport\202004_RehabilitateAirfieldLighting\Draw\Sheet\SEQUENCE OF CONSTRUCTION - SHEET 3.dwg
 UPDATE BY: Kris Salvatera
 LAYOUT: SEQUENCE OF CONSTRUCTION - SHEET 3
 XREF: DWG: Airport Rehabilitate Airfield Lighting.dwg
 CEA Main.dwg
 1/20/2004, sheet of 83-19.dwg
 Rehabilitate Airfield Lighting bases.dwg



LEGEND

- PHASE 2C WORK AREA
- PHASE 2D WORK AREA
- CONTRACTOR'S STAGING AREA
- AIRCRAFT MOVEMENT AREA
- LOW PROFILE BARRICADES WITH SIGNS FOR WORK AREA - PHASE 2C ("DO NOT ENTER" AND "AIRCRAFT MOVEMENT AREA")
- LOW PROFILE BARRICADES WITH SIGNS FOR WORK AREA - PHASE 2D ("DO NOT ENTER" AND "AIRCRAFT MOVEMENT AREA")
- OFZ - RUNWAY OBSTACLE FREE ZONE (ROFZ)
- RSA - RUNWAY SAFETY AREA (RSA)
- OFA - TAXIWAY OBJECT FREE AREA (OFA)
- CRITICAL POINT
- TEMPORARY CLOSED RUNWAY MARKER
- CONTRACTOR'S ACCESS/HAUL ROAD

PHASE	FACILITY STATUS - OPEN	FACILITY STATUS - CLOSED
2C	RUNWAYS 16/34, 12/30 AND 6/24 TAXIWAYS A, B, C, D, E, K, K1, K2, K3, L, L1, L2, L3, L4, P, Q, Y, AND Z	TAXIWAY E EAST OF TAXIWAY A
2D	RUNWAYS 16/34 AND 12/30 TAXIWAYS A, B, C, D, E, K, K1, K2, K3, L, L1, L2, L3, L4, P, Q, Y, AND Z	RUNWAY 12/30 TAXIWAY A (PARTIAL) TAXIWAY E1

PHASE 2C SEQUENCE OF CONSTRUCTION

- COORDINATE CLOSURE OF TAXIWAY E WITH RESIDENT ENGINEER. GATE ACCESS AND VEHICLE ACCESS TO NON-MOVEMENT AIRCRAFT PAVEMENT AREAS SHALL BE APPROVED BY THE AIRPORT.
- MARK AIR OPERATIONS AREA (A.O.A.) WITH LATHE AND RIBBON AND PLACE BARRICADES FOR TAXIWAY CLOSURES.
- CONSTRUCT PROPOSED IMPROVEMENTS IN PHASE 2C WORK AREA INCLUDING AIRFIELD LIGHTING.
- UPON COMPLETION OF WORK ITEMS, CLEAN PAVEMENTS, REMOVE BARRICADES, AND RE-OPEN TAXIWAYS.

PHASE 2D SEQUENCE OF CONSTRUCTION

- GATE ACCESS AND VEHICLE ACCESS TO NON-MOVEMENT AIRCRAFT PAVEMENT AREAS SHALL BE APPROVED BY THE AIRPORT.
- COORDINATE THE CLOSURE OF RUNWAY 12/30. MARK AIR OPERATIONS AREA (A.O.A.) WITH LATHE AND RIBBON AND PLACE BARRICADES FOR TAXIWAY CLOSURES.
- CONSTRUCT PROPOSED IMPROVEMENTS IN PHASE 2D WORK AREA INCLUDING AIRFIELD LIGHTING IMPROVEMENTS.
- UPON COMPLETION OF WORK ITEMS, CLEAN PAVEMENTS, REMOVE BARRICADES, AND RE-OPEN RUNWAY.
- PHASE 2D MAY WORK CONCURRENTLY WITH PHASE 2C WITH THE APPROVAL OF THE RESIDENT ENGINEER AND AIRPORT.

IL CONTRACT: **PA063**
 IL LETTING ITEM: **12A**
 IL PROJECT: **PWK-4843**
 S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS		
NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

CHICAGO EXECUTIVE AIRPORT
 WHEELING/PROSPECT HEIGHTS, ILLINOIS
 REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALOMS

SEQUENCE OF CONSTRUCTION - SHEET 3

© Copyright CMT, Inc.

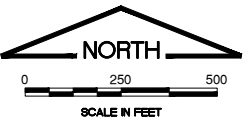
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

CHICAGO EXECUTIVE AIRPORT

DESIGN BY:	KWS
DRAWN BY:	JRO
CHECKED BY:	KWS
APPROVED BY:	DKP
DATE:	12/10/2021
JOB No:	20029004.00

FINAL

SHEET 6 OF 35 SHEETS



DATE: Thursday, December 9, 2021 9:53:54 AM
FILE: K:\Chicago\2020\202004-RehabilitateLightingPH1\Draw\Sheets\10 SEQUENCE OF CONSTRUCTION - GENERAL NOTES AND DETAILS - SHEET DWG011.DWG
UPDATE BY: Kris Solvetero
GENERAL NOTES AND DETAILS - SHEET DWG011 - SEQUENCE OF CONSTRUCTION - GENERAL NOTES AND DETAILS - SHEET DWG011.DWG
DRAWN BY: JRO
CHECKED BY: KWS
APPROVED BY: DKP
DATE: 12/10/2021
JOB No: 20029004.00

GENERAL NOTES

1. THE SUGGESTED SEQUENCE OF CONSTRUCTION SHOWN IS INTENDED TO ALLOW FOR THE ORDERLY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS WHILE MAINTAINING AIRCRAFT ACCESS AT ALL TIMES. THE PHASING SHOWN IS A SUGGESTED SEQUENCE OF CONSTRUCTION ONLY. THIS SEQUENCE MAY BE MODIFIED HOWEVER, ALTERNATE STAGING PLANS MUST MAINTAIN AIRPORT OPERATIONS TO THE SATISFACTION OF THE AIRPORT MANAGER AND RESIDENT ENGINEER AND BE APPROVED BY THE DIVISION OF AERONAUTICS AND FEDERAL AVIATION ADMINISTRATION.
2. ALL OPERATIONS SHALL BE IN CONFORMANCE WITH AC 150/5370-2G (LATEST EDITION) "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
3. CONTRACTOR'S EQUIPMENT SHALL BE STORED IN THE EQUIPMENT AND MATERIAL STORAGE/STAGING AREA WHEN CONSTRUCTION IS NOT IN PROGRESS. NO EXCEPTIONS FOR SLOW MOVING EQUIPMENT SHALL BE ALLOWED.
4. THE AIRPORT MANAGER SHALL HAVE FINAL SAY IN THE APPROVAL OF THE CONSTRUCTION OPERATION PHASING AND SEQUENCE AS IT RELATES TO PEDESTRIAN, VEHICULAR AND AIRCRAFT SAFETY.
5. ALL EXISTING PAVEMENTS, DRIVES OR ANY OTHER AREAS USED AS A HAUL ROAD OR STORAGE AREA BY THE CONTRACTOR SHALL BE RESTORED IN KIND TO THEIR PRE-CONSTRUCTION CONDITION OR TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER. THE COST OF MAINTAINING, REPAIRING OR CONSTRUCTING THESE PAVEMENTS AND AREAS SHALL BE INCIDENTAL TO THE CONTRACT. EXISTING AREAS OUTSIDE THE PROJECT LIMITS WHICH ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND THE AIRPORT MANAGER.
6. THE CONTRACTOR SHALL KEEP ALL TRUCKS, EQUIPMENT AND MATERIALS OFF OF THE EXISTING TAXIWAYS, APRONS AND RUNWAYS OUTSIDE OF THE PROJECT LIMITS EXCEPT AS SHOWN OR WITH THE PRIOR PERMISSION OF THE ENGINEER AND AIRPORT.
7. WORK PERFORMED BY THE CONTRACTOR OUTSIDE OF DAYLIGHT HOURS SHALL BE DONE UNDER SUFFICIENT ARTIFICIAL LIGHTING TO ALLOW FOR PROPER CONSTRUCTION METHODS AND INSPECTIONS. LIGHT SHALL CONSIST OF MOVABLE POLE MOUNTED FLOODLIGHTS AND/OR SPOTLIGHTS OF SUFFICIENT NUMBER TO ILLUMINATE THE WORK AREA. VEHICLE HEADLIGHTS WILL BE ALLOWED ONLY IN ADDITION TO OTHER LIGHTS MENTIONED ABOVE. LIGHTING SHALL BE AS APPROVED BY THE ENGINEER AND SHALL NOT BE USED IF THEY AFFECT FLIGHT SAFETY. CONTRACTOR'S WORK HOURS SHALL BE IN ACCORDANCE WITH LOCAL ORDINANCES.
8. ALL AIRFIELD LIGHTING AND LIGHTING GUIDANCE SYSTEMS (NAVAIDS) LOCATED WITHIN AND IMMEDIATELY ADJACENT TO THE CONTRACTORS WORK ZONE SHALL BE CHECKED FOR OPERATIONAL CONDITION PRIOR TO THE DEPARTURE FROM THE AIRPORT WITH THE AIRPORT MANAGER. ANY DEFICIENCIES IN THESE SYSTEMS DUE TO THE ACTS OF CONTRACTOR OR HIS SUBCONTRACTORS, SUPPLIERS OR CONSULTANTS SHALL BE REPAIRED IMMEDIATELY.
9. THE CONTRACTOR WILL BE REQUIRED TO HAVE A SWEEPER AVAILABLE FOR USE AT ALL TIMES. WHEN ACTIVE AIRFIELD PAVEMENTS ARE UTILIZED AS HAUL ROADS BY THE CONTRACTOR, MATERIAL TRACKED ON TO THE PAVEMENT SHALL BE CONTINUALLY REMOVED WITH SAID SWEEPER. THIS SWEEPING SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
10. MATERIALS REMOVED FROM THE PROJECT WILL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF AIRPORT PROPERTY, UNLESS NOTED OTHERWISE.
11. PAYMENT FOR TRAFFIC CONTROL INCLUDING, BUT NOT LIMITED TO BARRICADES, CONSTRUCTION FENCE, SIGNING, RUNWAY AND TAXIWAY CLOSED MARKERS, SAFETY AND OBJECT FREE AREAS, LATHE AND RIBBON, ETC. SHALL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. LOW PROFILE BARRICADES SHALL CONFORM TO THE DETAILS IN THE PLANS AND SEQUENCE OF CONSTRUCTION. BARRICADE INSTALLATION WILL BE REQUIRED PRIOR TO ACCESS TO THE WORK AREA BY CONTRACTOR'S WORKERS, EQUIPMENT OR MATERIAL. SIGNS SHALL BE PLACED AT EACH TAXIWAY/RUNWAY CLOSURE LOCATION AND SHALL BE ATTACHED TO THE BARRICADES. EACH BARRICADE LOCATION SHALL CONSIST OF ONE "DO NOT ENTER" SIGN AND ONE "AIRCRAFT MOVEMENT AREA" SIGN. SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ALL BARRICADES SHALL BE PLACED OUTSIDE OF ACTIVE SAFETY AREAS AND OBJECT FREE AREAS.
12. THE CONTRACTOR SHALL CONTACT THE AIRPORT MANAGER THROUGH THE RESIDENT ENGINEER TEN (10) WORKING DAYS IN ADVANCE OF THE START OF CONSTRUCTION SO THAT THE APPROPRIATE NOTAMS MAY BE ISSUED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL CONSTRUCTION ACCESS GATES CLOSED DURING NON-WORKING HOURS. THE CONTRACTOR SHALL PROVIDE A SIGN AT THE ACCESS GATE SAYING "AUTHORIZED PERSONNEL ONLY". THE CONTRACTOR SHALL CLOSE AND LOCK THE ACCESS GATE UPON LEAVING THE SITE. THROUGHOUT THE DURATION OF THE CONTRACT, ANY DAMAGES TO THE ACCESS ROAD, ACCESS GATE OR FENCING ADJACENT TO THE PROJECT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE RESIDENT ENGINEER. ALL COST RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
14. CONTRACTOR WILL BE REQUIRED TO PUT AIRPORT FLAGS OR A WORKING BEACON LIGHT ON ALL EQUIPMENT AT ALL TIMES DURING CONSTRUCTION. SEE FLAG DETAIL.
15. IN THE CASE OF AN EMERGENCY, CONTRACTOR SHALL NOTIFY AIRPORT MANAGER AND THE RESIDENT ENGINEER IMMEDIATELY.
16. DURING ADVERSE WEATHER, THE CONTRACTOR SHALL MAKE PROVISIONS FOR ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK.
17. THE TALLEST PIECE OF CONSTRUCTION EQUIPMENT IS ANTICIPATED TO BE AN ASPHALT/STONE TRUCK WHICH HAS A MAXIMUM HEIGHT OF 25 FEET IN A DUMP POSITION.
18. IF RUNWAY NUMERALS ARE PRESENT DURING CONSTRUCTION THEN CONTRACTOR SHALL PLACE CLOSED RUNWAY MARKER OVER NUMERALS AS DETAILED, OTHERWISE PLACE RUNWAY CLOSED MARKER IN TURF AT ENDS OF RUNWAY AS DETAILED.
19. CHICAGO EXECUTIVE AIRPORT WILL BE IN OPERATION DURING THE CONSTRUCTION OF THIS PROJECT. COORDINATION OF WORK WITH THE AIRPORT IS MANDATORY SO AS TO MINIMIZE IMPACTS ON AIRPORT OPERATIONS.
20. APPROXIMATE LOCATION OF HAUL ROUTES ON THE AIRPORT SITE ARE SHOWN ON THE GENERAL PROJECT LAYOUT AND THE PHASING PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF-SITE HAUL ROUTES (STATE HIGHWAYS, COUNTY ROADS OR CITY STREETS) WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE ROADS USED AS HAUL ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. THE BEFORE AND AFTER CONDITION OF ON-SITE HAUL ROUTES SHALL BE JOINTLY INSPECTED AND DETERMINED BY THE CONTRACTOR AND THE ENGINEER. FENCING, DRAINAGE, GRADING AND OTHER MISCELLANEOUS CONSTRUCTION REQUIRED TO CONSTRUCT TEMPORARY HAUL ROUTES OR ACCESS POINTS ON THE AIRPORT WILL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE WORK. ALL ON-SITE ACCESS ROADS TO AIRPORT FACILITIES SHALL REMAIN OPEN AND MAINTAINED AT ALL TIMES.
21. MOBILIZATION/EQUIPMENT STORAGE AREA WILL BE MADE AVAILABLE FOR CONTRACTOR'S MOBILIZATION AND STORAGE AS SHOWN ON THE PLANS. THIS AREA SHALL BE RESTORED TO THE ORIGINAL CONDITION UPON COMPLETION OF THE PROJECT AT THE CONTRACTOR'S EXPENSE.

22. LOCATION OF KNOWN EXISTING AIRPORT UNDERGROUND CABLES ARE SHOWN ON THE PLANS AND MUST BE VERIFIED BY THE CONTRACTOR. REPAIR OF DAMAGED CABLE MUST BE STARTED IMMEDIATELY AND CONTINUED UNTIL COMPLETED. ALL SUCH REPAIRS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, OR AS DIRECTED BY THE OWNER OF THE CABLE OR FACILITY, AND SHALL BE AT THE CONTRACTOR'S EXPENSE. IF FAA CABLES ARE DAMAGED, REPAIRS SHALL BE DONE FROM PREVIOUS EXISTING TERMINATION POINT TO PREVIOUS EXISTING TERMINATION POINT IN ACCORDANCE WITH FAA REQUIREMENTS AND IN THE PRESENCE OF A FAA REPRESENTATIVE. THE OWNER MAY ELECT TO HAVE THE REPAIR PERFORMED BY OTHERS IN WHICH CASE THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING THE INCURRED COSTS OF REPAIRS.
23. COORDINATION MEETINGS - THE CONTRACTOR SHALL CONDUCT WEEKLY COORDINATION MEETINGS TO DISCUSS WORK AREAS AND SCHEDULING, ETC. WITH THE ENGINEER, AIRPORT OPERATIONS, FAA, AND OTHER APPROPRIATE OFFICIALS. MINUTES FROM THE WEEKLY MEETINGS SHALL BE PREPARED BY THE CONTRACTOR, FURNISHED TO ALL ATTENDEES PRIOR TO THE SUBSEQUENT MEETING, AND KEPT ON FILE AT THE FIELD OFFICE. THE COORDINATION MEETING COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
24. THE CONTRACTOR SHALL PROVIDE THE PHONE NUMBERS OF THREE PERSONNEL, INCLUDING THE PROJECT SUPERINTENDENT, WHO MAY BE CONTACTED IN AN EMERGENCY. PERSONNEL SHALL BE ON CALL 24 HOURS PER DAY FOR MAINTAINING AIRPORT HAZARD LIGHTING AND BARRICADES.
25. DRAINAGE MODIFICATIONS SHALL BE SEQUENCED TO PROVIDE POSITIVE DRAINAGE AT ALL TIMES AT NO ADDITIONAL COST TO THE CONTRACT.
26. VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED WITHIN THE TAXIWAY OBJECT FREE AREA AND RUNWAY SAFETY AREA OF ACTIVE TAXIWAYS AND RUNWAYS.
27. CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A MANNER AS NOT TO VIOLATE FEDERAL AVIATION ADMINISTRATION PART 77 IMAGINARY SURFACES OR RUNWAY AND TAXIWAY SAFETY AREAS.
28. ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER ELECTRICAL CABLES SHALL REMAIN IN SERVICE AT ALL TIMES. ALL EXISTING LIGHTING AND VAULT EQUIPMENT SHALL REMAIN IN SERVICE UNTIL PROPOSED IMPROVEMENTS ARE INSTALLED AND OPERATIONAL, UNLESS OTHERWISE APPROVED BY THE ENGINEER. ANY CABLES DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPAIRED AT HIS EXPENSE. ANY NECESSARY TEMPORARY JUMPER CABLES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
29. COORDINATION BY THE CONTRACTOR WITH THE EXISTING UTILITIES SHALL BE COMPLETED BEFORE CONSTRUCTION IS STARTED. CONTRACTOR IS REFERRED TO SECTION 50-17 OF THE SPECIAL PROVISIONS FOR SPECIFIC REQUIREMENTS. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER OR THE DESIGN ENGINEER ASSUME ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, COMPLETENESS OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED THAT THE LOCATIONS, SIZE AND TYPE MATERIAL OF EXISTING UNDERGROUND UTILITIES AS INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OF HIS OPERATIONAL PLANS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR DETAILED INFORMATION AND ASSISTANCE IN LOCATING UTILITIES. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY, THE RESIDENT ENGINEER AND THE AIRPORT MANAGER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER.

CONTRACTOR CROSSING RUNWAY SAFETY AREAS (RSA) AND TAXIWAY OBJECT FREE AREAS (TOFA)

31. ANYTIME THE CONTRACTOR IS REQUIRED TO UTILIZE OR CROSS ACTIVE AIRFIELD PAVEMENTS FOR ACCESS TO AND FROM THE WORK ZONE, A FULL TIME CROSSING GUARD IN RADIO CONTACT WITH THE CONTROL TOWER SHALL BE FURNISHED BY THE CONTRACTOR FOR MOVEMENTS OF VEHICLES OR EQUIPMENT TO AND FROM THE WORK ZONE. THE RADIO OPERATOR SHALL BE FAMILIAR WITH AIRPORT GROUND CONTROL PROCEDURES AND DEMONSTRATE KNOWLEDGE OF SAME TO THE AIRPORT. THE AIRPORT RESERVES THE RIGHT TO APPROVE THE CROSSING GUARDS. THE CONTRACTOR SHALL PROVIDE THEIR OWN RADIOS. THIS COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF MUNICIPAL FINES (\$500 PER OCCURENCE) DUE TO AIRFIELD INCURSIONS BY HIS EMPLOYEES, SUBCONTRACTORS, SUPPLIERS, CONSULTANTS AND/OR AGENTS.
32. ANY PAVEMENT DAMAGED BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY HIM TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER AT NO ADDITIONAL COST TO THE OWNER. PAVEMENT SHALL BE CONTINUALLY SWEEPED TO PROVIDE DEBRIS FREE SURFACE DURING ALL HAUL ROAD OPERATIONS. THIS COST SHALL NOT BE PAID SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

LIMITATIONS ON CONSTRUCTION WITHIN RUNWAY SAFETY AREAS (RSA) / RUNWAY OBSTACLE FREE ZONE (OFZ) AND TAXIWAY OBJECT FREE AREAS (TOFA)

RUNWAYS:

33. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT MANAGER TEN (10) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS. ANY WORK WITHIN THE RUNWAY SAFETY AREA OR RUNWAY OBSTACLE FREE AREA WILL REQUIRE A RUNWAY CLOSURE. WORK SHALL BE EXPEDITED IN THESE AREAS AND AT THE END OF EACH WORKING PERIOD THESE AREAS SHALL BE SMOOTHLY GRADED TO ALLOW THE RUNWAY TO BE REOPENED PER FAA REQUIREMENTS. AT LEAST ONE OF THE RUNWAYS SHALL REMAIN IN OPERATION AT ALL TIMES. IF NECESSARY, STEEL PLATES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR TO COVER ANY OPEN TRENCHES OR EXCAVATION WITHIN THE RSA AT NO ADDITIONAL COST TO THE CONTRACT. NO MATERIAL SHALL BE STOCKPILED WITHIN THE RSA. IF DURING RUNWAY CLOSURE AN EMERGENCY IS DECLARED, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE RUNWAY OF ALL VEHICLES, MEN, EQUIPMENT AND BARRICADES.

TAXIWAYS:

34. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT MANAGER FIVE (5) WORKING DAYS IN ADVANCE FOR WORK WITHIN THE TAXIWAY OBJECT FREE AREA. ANY WORK WITHIN THE TAXIWAY OBJECT FREE AREA WILL REQUIRE A TAXIWAY CLOSURE. WORK WITHIN THE TAXIWAY OBJECT FREE AREA SHALL BE EXPEDITED AND AT THE END OF EACH WORKING PERIOD THESE AREAS SHALL BE SMOOTHLY GRADED TO ALLOW THE TAXIWAY TO BE REOPENED PER FAA REQUIREMENTS. IF NECESSARY, STEEL PLATES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR TO COVER ANY OPEN TRENCHES OR EXCAVATION WITHIN THE TOFA AT NO ADDITIONAL COST TO THE CONTRACT. NO MATERIAL OR EQUIPMENT SHALL BE STOCKPILED OR STORED WITHIN THE TOFA. SHOULD IT BE NECESSARY FOR THE CONTRACTOR TO TEMPORARILY RELOCATE EQUIPMENT TO ALLOW AIRCRAFT TO PASS, THEY SHALL DO SO AT NO EXTRA COST TO THE PROJECT.

ALLOWABLE CONSTRUCTION HOURS

1. THE ALLOWABLE CONSTRUCTION HOURS FOR THE VILLAGE OF WHEELING AND THE CITY OF PROSPECT HEIGHTS ARE FROM 7 AM TO 6 PM, MONDAY THROUGH SATURDAY. THE AIRPORT WILL SEEK A WAIVER WITH THE VILLAGE AND CITY TO ALLOW CONSTRUCTION OUTSIDE OF THOSE HOURS FOR THE PHASES SHOWN TO BE COMPLETED OVER WEEKENDS ONLY. AT ALL OTHER TIMES, IT IS EXPECTED THE CONTRACTOR WILL ADHERE TO THE VILLAGE AND CITY NOISE ORDINANCE AND ALLOWABLE CONSTRUCTION HOUR POLICIES. SHOULD THE CONTRACTOR REQUIRE ADDITIONAL WORKING HOURS, HE SHALL REQUEST, THROUGH THE RESIDENT ENGINEER, THAT THE VILLAGE AND CITY BE CONTACTED TO REQUEST ADDITIONAL WAIVER OF THE NOISE ORDINANCE POLICY. ANY FINES LEVIED BY THE VILLAGE OR CITY TO THE AIRPORT FOR VIOLATIONS OF THE NOISE ORDINANCE AND ALLOWABLE CONSTRUCTION HOURS SHALL BE PAID BY THE CONTRACTOR.

CONTRACTOR SHALL PLAN AND PERFORM HIS WORK SO AS NOT TO INTERFERE OR HINDER THE PROGRESS, WORK OR HAUL ROAD ACCESS OF OTHER CONTRACTORS (SEE SPECIAL PROVISIONS SECTION 30-05). THE PRIME CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE CONSTRUCTION ACTIVITIES AND ACCESS BETWEEN ALL ON-SITE CONTRACTORS SUBCONTRACTORS. IT IS ANTICIPATED THE FOLLOWING PROJECTS MAY BE UNDER CONSTRUCTION CONCURRENTLY WITH THIS PROJECT. NO ADDITIONAL COMPENSATION SHALL BE CONSIDERED FOR ANY EFFORTS TO COORDINATE AND ACCESS THE TAXIWAY SITE DUE TO ADJACENT BUILDING CONSTRUCTION

GROUND CONTROL FREQUENCY: 121.7 MHz
AIR CONTROL FREQUENCY: 119.9 MHz

MAXIMUM ANTICIPATED HEIGHT OF CONSTRUCTION EQUIPMENT: DUMP TRUCK IN DUMP POSITION - 25'

IN THE EVENT THE CONTRACTOR PROPOSES TO UTILIZE CONSTRUCTION EQUIPMENT THAT IS TALLER THAN WHAT IS LISTED, THE CONTRACTOR WILL BE RESPONSIBLE TO SUBMIT FAA FORM 7460 FOR AIRSPACE APPROVAL. THE RESIDENT ENGINEER WILL PROVIDE BASE AIRPORT INFORMATION FOR THE CONTRACTOR'S USE.

ELECTRICAL NOTES - ALL PHASES

1. ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER AIRPORT ELECTRICAL CABLES SHALL REMAIN IN SERVICE UNTIL REPLACED AS ACCEPTABLE TO THE RESIDENT ENGINEER. ALL TEMPORARY CABLING AND SPLICING NECESSARY TO KEEP THE CIRCUITS IN OPERATION SHALL BE CONSIDERED INCIDENTAL TO CONTRACT.
2. WHEN FAA CABLES ARE REQUIRED TO BE LOCATED. A 10 WORKING DAY ADVANCED NOTICE SHALL BE GIVEN TO THE FAA BEFORE ANY SUCH MARKINGS ARE REQUIRED. ONCE FAA MARKS THE CABLES, THE CONTRACTOR WILL BE REQUIRED TO SURVEY THE FAA UTILITIES SO THEY CAN BE REPLACED DURING CONSTRUCTION WITHOUT REMARKING BY THE FAA. THIS SHALL BE INCIDENTAL AND AT THE CONTRACTOR'S EXPENSE. THE FAA PERSONNEL ARE ONLY AVAILABLE FROM 9 AM TO 3 PM, MONDAY THROUGH FRIDAY WITH ADVANCED NOTICE.
3. SPECIAL ATTENTION IS NECESSARY WHEN WORKING NEAR FAA POWER AND CONTROL CABLES. ANY FAA UTILITY THAT IS DAMAGED OR CUT DURING CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY. FAA REQUIRES THAT ANY DAMAGED CABLE BE REPLACED IN ITS ENTIRETY, FROM POWER/CONTROL SOURCE TO THE EQUIPMENT/SERVICE. SPLICES OF ANY KIND WILL NOT BE PERMITTED. EXPOSURES OF ANY FAA CABLES MUST BE DONE BY HAND DIGGING OR HYDRO-EXCAVATION. NO ADDITIONAL COMPENSATION WILL BE MADE FOR LOCATING, REPLACEMENT OR REPAIR OF FAA FACILITIES OR CABLES BUT, SHALL BE INCIDENTAL AND AT THE CONTRACTOR'S EXPENSE.

EXISTING CRITICAL AIRCRAFT AND REQUIRED SAFETY AREAS

RUNWAY	16/34	12/30	6/24
APPROACH CATEGORY	D	B	B
DESIGN GROUP	III	II	I
DESIGN AIRCRAFT	GULFSTREAM 550	KING AIR B200	CESSNA 421
APPROACH SPEED	141 KNOTS	103 KNOTS	96 KNOTS
WINGSPAN	94 FEET	55 FEET	42 FEET
TAIL HEIGHT	25.8 FEET	15.0 FEET	11.6 FEET
STRENGTH (MGTW)	90,500 LBS.	12,500 LBS.	7,450 LBS.
LENGTH	97 FEET	44 FEET	37 FEET
RUNWAY SAFETY AREA WIDTH (RSA)	500 (250' FROM C)	150 (75' FROM C)	120 (60' FROM C)
RWY OBJECT FREE AREA WIDTH (ROFA)	800	500	400
RWY OBSTACLE FREE ZONE WIDTH (ROFZ)	400 (200' FROM C)	250 (125' FROM C)(2)	250 (125' FROM C)(2)
TAXIWAY SAFETY AREA WIDTH (TSA)	118	79	49
(2) TXY OBJECT FREE AREA WIDTH (TOFA)	186 (93' FROM C)	131(65.5' FROM C)	89 (44.5' FRM C)

1. TOFA, ROFA, RSA, CRITICAL AREAS, PART 77 AND DEPARTURE/APPROACH SURFACES ARE SHOWN FOR REFERENCE FOR RUNWAY TO BE CLOSED DURING VARIOUS CONSTRUCTION PHASES.
2. NO CONSTRUCTION WITHIN THESE LIMITS WILL BE ALLOWED WITHOUT THE RUNWAY AND/OR TAXIWAY CLOSED.
3. AT THE END OF THE WORK DAY NO CONSTRUCTION EQUIPMENT SHALL BE PARKED/STORED WITHIN THE OBJECT FREE AREA(S) OF OPEN OR CLOSED RUNWAYS AND/OR TAXIWAYS. PARKED/STORED EQUIPMENT HEIGHT SHALL NOT PENETRATE PART 77 SURFACE(S).

CRITICAL POINTS TABLE

WORK AREA	POINT	APPROXIMATE ELEVATION OF GROUND (1929 DATUM)	ANTICIPATED EQUIPMENT AND HEIGHT	APPROXIMATE ELEVATION OF EQUIPMENT (1929 DATUM)	LATITUDE (NAD 83)	LONGITUDE (NAD83)
STAGING	A	640	MINI-EXCAVATOR - 25'	665	N042° 07' 06.92"	W087° 53' 42.49"
STAGING	B	640	MINI-EXCAVATOR - 25'	665	N042° 07' 04.16"	W087° 53' 42.55"
STAGING	C	640	MINI-EXCAVATOR - 25'	665	N042° 07' 04.17"	W087° 53' 45.52"
STAGING	D	640	MINI-EXCAVATOR - 25'	665	N042° 07' 07.05"	W087° 53' 45.46"
PHASE 1A	E	635	MINI-EXCAVATOR - 25'	660	N042° 06' 54.39"	W087° 54' 01.67"
PHASE 1B	F	635	MINI-EXCAVATOR - 25'	660	N042° 06' 48.50"	W087° 53' 58.16"
PHASE 2A	G	637	MINI-EXCAVATOR - 25'	662	N042° 06' 45.03"	W087° 53' 56.00"
PHASE 2A	H	637	MINI-EXCAVATOR - 25'	662	N042° 06' 40.15"	W087° 53' 43.67"
PHASE 2A/2C	I	637	MINI-EXCAVATOR - 25'	662	N042° 06' 40.19"	W087° 53' 40.48"
PHASE 2A	J	635	MINI-EXCAVATOR - 25'	660	N042° 06' 50.00"	W087° 53' 45.62"
PHASE 2B	K	638	MINI-EXCAVATOR - 25'	663	N042° 06' 47.48"	W087° 54' 00.90"
PHASE 2C/2D	L	638	MINI-EXCAVATOR - 25'	663	N042° 06' 36.19"	W087° 53' 33.05"
PHASE 3A	M	638	MINI-EXCAVATOR - 25'	663	N042° 06' 44.23"	W087° 54' 08.92"
PHASE 3A	N	637	MINI-EXCAVATOR - 25'	662	N042° 06' 47.10"	W087° 54' 01.25"
PHASE 3A	O	640	MINI-EXCAVATOR - 25'	665	N042° 06' 38.68"	W087° 54' 06.00"
PHASE 3A	P	635	MINI-EXCAVATOR - 25'	660	N042° 06' 44.43"	W087° 53' 54.48"
PHASE 3C	Q	639	MINI-EXCAVATOR - 25'	664	N042° 06' 38.99"	W087° 54' 06.16"
PHASE 3C	R	639	MINI-EXCAVATOR - 25'	664	N042° 06' 41.15"	W087° 54' 06.47"
PHASE 3B/3C	S	639	MINI-EXCAVATOR - 25'	664	N042° 06' 41.51"	W087° 54' 08.89"
PHASE 3B	T	639	MINI-EXCAVATOR - 25'	664	N042° 06' 43.40"	W087° 54' 07.69"
PHASE 3B	U	639	MINI-EXCAVATOR - 25'	664	N042° 06' 45.86"	W087° 54' 11.22"
PHASE 4A	V	640	MINI-EXCAVATOR - 25'	665	N042° 06' 45.00"	W087° 54' 11.97"
PHASE 4A	W	640	MINI-EXCAVATOR - 25'	665	N042° 06' 48.60"	W087° 54' 18.68"
PHASE 4A/4B	X	640	MINI-EXCAVATOR - 25'	665	N042° 06' 50.10"	W087° 54' 22.61"
PHASE 4B/4C	Y	640	MINI-EXCAVATOR - 25'	665	N042° 06' 52.70"	W087° 54' 22.47"
PHASE 4B/4C	Z	640	MINI-EXCAVATOR - 25'	665	N042° 06' 54.01"	W087° 54' 25.80"
PHASE 4C	AA	640	MINI-EXCAVATOR - 25'	665	N042° 06' 56.74"	W087° 54' 18.84"

IL CONTRACT: PA063

IL LETTING ITEM: 12A

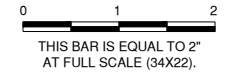
IL PROJECT: PWK-4843

S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS

NUMBER	BY	DATE



CHICAGO EXECUTIVE AIRPORT
WHEELING/PROSPECT HEIGHTS, ILLINOIS
REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALCOMS

SEQUENCE OF CONSTRUCTION
GENERAL NOTES AND DETAILS - SHEET 1

© copyright CMT, Inc.



DESIGN BY: KWS

DRAWN BY: JRO

CHECKED BY: KWS

APPROVED BY: DKP

DATE: 12/10/2021

JOB No: 20029004.00

FINAL

SHEET 10 OF 35 SHEETS

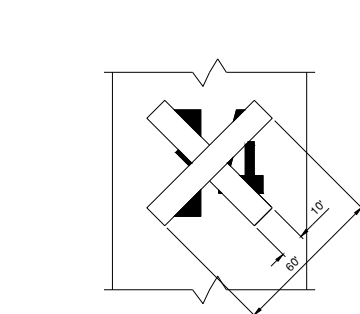
DATE: Thursday, December 9, 2021 9:53:59 AM
 FILE: K:\Chicago\2020\2020004_RehabilitateAirfield\Draw\Sheet11_Sequence of Construction - General Notes and Details - Sheet 2.dwg
 UPDATE BY: Kris Salvatera
 LAYOUT: SEQUENCE OF CONSTRUCTION - GENERAL NOTES AND DETAILS - SHEET 2.dwg
 IMAGE FILE: C:\Program Files\Autodesk\AutoCAD 2020\Help\Draw\Sheet11_Sequence of Construction - General Notes and Details - Sheet 2.dwg
 REF: DWG: 2020004_RehabilitateAirfield\Draw\Sheet11_Sequence of Construction - General Notes and Details - Sheet 2.dwg

PHASING NOTES (ALL PHASES)

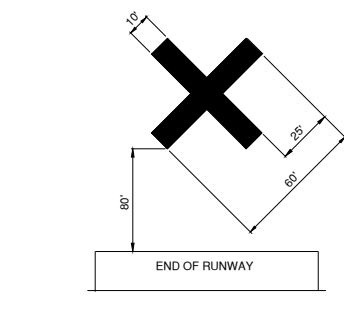
- THE INTENT OF THE PHASING PLANS IS TO MINIMIZE THE IMPACT OF CONSTRUCTION ON THE OPERATION OF THE AIRPORT. THE CONTRACTOR SHALL CONSTRUCT THE PROJECT IN CONSECUTIVE PHASES AS OUTLINED IN THE PLANS UNLESS OTHERWISE APPROVED BY THE RESIDENT ENGINEER AND AIRPORT EXECUTIVE DIRECTOR.
- PRIOR TO REOPENING A CLOSED RUNWAY, THE ENTIRE (RSA) RUNWAY SAFETY AREA (250 FEET FROM CENTERLINE AND INCLUDING BEYOND THE END OF THE RUNWAY WITHIN AIRPORT PROPERTY) AND (TOFA) TAXIWAY OBJECT FREE AREA MUST MEET FAA CRITERIA. FAA CRITERIA REQUIRES THAT THERE BE NO OPEN EXCAVATIONS OR TRENCHES IN THE SAFETY AREA(S), THE MAXIMUM PAVEMENT DROP OFF BE 3 INCHES, AND ALL GRADES IN ANY DIRECTION BE LESS THAN 3 PERCENT. STEEL PLATES, TEMPORARY WEDGING OF BASE COURSE AND BITUMINOUS CONCRETE MAY BE REQUIRED TO MEET CRITERIA. ALL NECESSARY TEMPORARY MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE. STRICT ADHERENCE TO THE APPROVED SCHEDULE WILL BE ENFORCED TO AVOID CONFLICTS WITH OTHER CONSTRUCTION ACTIVITIES ON THE AIRPORT AND THE ADVERSE EFFECTS THEY COULD HAVE ON AIRPORT OPERATIONS.
- THE CONTRACTOR SHALL COORDINATE CLOSELY WITH THE AIRPORT STAFF TO SCHEDULE THE RUNWAY/TAXIWAY CLOSURES. ITEMS SUCH AS THE EXTENDED WEATHER FORECAST, MATERIAL AVAILABILITY, EQUIPMENT DEPENDABILITY AND MANPOWER AVAILABILITY SHALL BE DISCUSSED PRIOR TO SCHEDULING THIS CRITICAL CLOSURE. THE AIRPORT EXECUTIVE DIRECTOR AND THE CONTRACTOR SHALL MUTUALLY AGREE ON THE EXACT DATES AND TIMES OF THE CLOSURE(S).
- CONTRACTOR MUST MAINTAIN ACCESS TO ALL ACTIVE AND OPEN AREAS AT ALL TIMES. CONTRACTOR SHALL RELOCATE EQUIPMENT AT NO ADDITIONAL COST TO CONTRACT TO ALLOW AIRCRAFT TO PASS. CONTRACTOR SHALL COORDINATE CONSTRUCTION OPERATIONS AT ALL ACTIVE AND OPEN AREAS TO PROVIDE MINIMAL DISRUPTIONS TO AIRCRAFT MOVEMENT IN THAT AREA.
- FAA AND AIRPORT ACCESS ROAD(S) SHALL NOT BE USED AS A HAUL ROAD BY THE CONTRACTOR WITHOUT PRIOR APPROVAL.
- TO THE EXTENT POSSIBLE THE CONTRACTOR SHALL HAVE ALL EMPLOYEE PARKING OUTSIDE OF AIRPORT FENCE OR AS INDICATED AT THE LOCATION SHOWN.
- THE AIRPORT RESERVES THE RIGHT TO MODIFY THE SEQUENCE OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO PHASING, WORK AREAS, BARRICADE PLACEMENT, ACCESS AND HAUL ROUTES, AND CONTRACTOR MOVEMENTS AT ANY TIME DURING THE PROJECT WITH FAA, IDA AND ATCT APPROVAL.
- CONTRACTOR MAY REQUEST TO COMBINE WORK PHASES/AREAS. THE AIRPORT WILL DETERMINE IF THE REQUEST IS ACCEPTABLE.
- WHEN HAUL ROUTE IS IN USE ON ACTIVE AIRFIELD PAVEMENTS, THE CONTRACTOR WILL BE REQUIRED TO BE UNDER CONTROL BY A CROSSING GUARD OR ESCORT IN RADIO CONTACT WITH THE ATCT FOR CONSTRUCTION PERSONNEL, CONSTRUCTION TRAFFIC, CONTRACTORS VEHICLES AND EQUIPMENT CROSSING BY, TO OR FROM WORK ZONE. STOP SIGNS SHALL BE IN PLACE AT ALL TIMES IN THIS AREA. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
- TEMPORARY CLOSED TAXIWAY MARKERS ARE ONLY REQUIRED WHEN THE TAXIWAY WILL REMAIN CLOSED FOR 3 CONSECUTIVE DAYS OR MORE.
- ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER AIRPORT ELECTRICAL CABLES SHALL REMAIN IN SERVICE UNTIL REPLACED AS ACCEPTABLE TO THE RESIDENT ENGINEER. ALL TEMPORARY CABLING AND SPLICING TO KEEP THE CIRCUITS IN OPERATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ALL TEMPORARY CABLING SHALL BE PLACED IN SCHEDULE 400 PVC CONDUIT ALONG CLOSED SIDE OF THE BARRICADE LINE.

AIRFIELD LIGHTS AND SIGNS NOTES

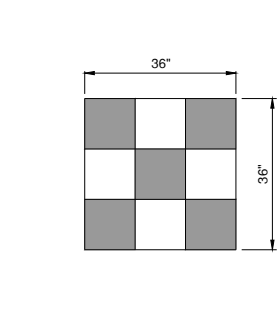
- CONTRACTOR SHALL COVER ALL AIRFIELD SIGNS AND TAXIWAY LIGHTS ON CLOSED TAXIWAYS UNTIL THE TAXIWAY IS RE-OPENED FOR AIRCRAFT USE. THE METHOD AND MATERIALS USED TO COVER THE SIGNS AND LIGHTS SHALL MEET THE ENGINEER'S AND AIRPORT'S APPROVAL. COST INCIDENTAL TO THE CONTRACT. REMOVING LAMPS FROM ENERGIZED FIXTURES AS A MEANS TO REMOVE THE LIGHTS OR FIXTURES FROM SERVICE SHALL NOT BE ACCEPTABLE.
- CONTRACTOR SHALL TURN OFF RUNWAY EDGE LIGHTING REGULATOR AND LOCK-OUT/TAG-OUT CIRCUIT BREAKER AND CUT OUT INSIDE THE ELECTRICAL VAULT. DURING ALL RUNWAY CLOSURES, CONTRACTOR SHALL COORDINATE ACCESS TO THE VAULT WITH THE AIRPORT MANAGER/RESIDENT ENGINEER PRIOR TO RE-OPENING THE RUNWAY, THE CONTRACTOR SHALL COORDINATE WITH AIRPORT MANAGER/RESIDENT ENGINEER TO RE-ENERGIZE THE RUNWAY CIRCUIT.



TEMPORARY CLOSED RUNWAY MARKER DETAIL
ON PAVEMENT - NO SCALE



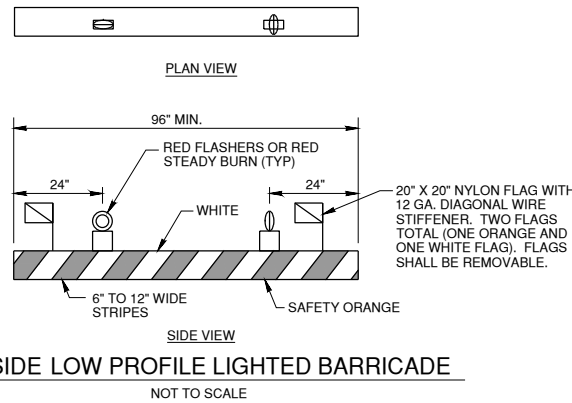
OFF PAVEMENT TEMPORARY CLOSED RUNWAY MARKER DETAIL
NO SCALE



CONSTRUCTION EQUIPMENT AND TRUCK SIGNAL FLAG
NOT TO SCALE

CLOSED RUNWAY MARKER NOTES

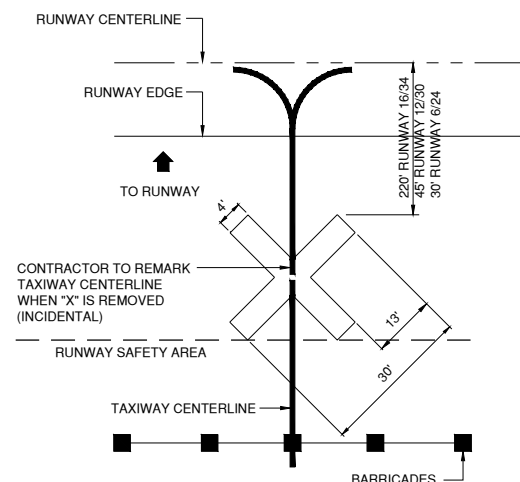
- DURING VARIOUS PHASES OF WORK, IT WILL BE NECESSARY TO CLOSE RUNWAYS TO AIR TRAFFIC ON A TEMPORARY BASIS AS COORDINATED WITH THE AIRPORT AND TOWER PERSONNEL.
- FOR RUNWAY CLOSURES INVOLVING A SINGLE RUNWAY, IT IS ANTICIPATED THAT THE AIRPORT SHALL MOBILIZE THE AIRPORT OWNED LIGHTED "X'S ON EACH END OF THE CLOSED RUNWAY. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE LIGHTED "X'S DURING EACH CLOSURE PERIOD. CONTRACTOR SUPPLIED MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, FUELING, REPLACING LAMPS, CHECKING AND SUPPLYING OIL, ETC. IF ANY DAMAGE IS INCURRED TO THE AIRPORT LIGHTED "X'S DURING CONSTRUCTION BY THE CONTRACTOR, THE CONTRACTOR SHALL REPLACE THE LIGHTED "X" IN KIND AT NO COST TO THE CONTRACT OR AIRPORT.
- FOR RUNWAY CLOSURES INVOLVING MORE THAN ONE RUNWAY, OR IF THE AIRPORT OWNED LIGHTED "X'S ARE NOT AVAILABLE, THE CONTRACTOR SHALL MARK THE RUNWAYS TO BE CLOSED BY PLACING YELLOW CROSSES AT THE LOCATION AND DIMENSIONS DETAILED ON THE SEQUENCE OF CONSTRUCTION AND PER AC 150/5370-2 (LATEST EDITION), THE CROSSES ARE SHOWN ON THE RESPECTIVE RUNWAYS ACCORDING TO THE VARIOUS PHASES OF WORK AS DELINEATED IN THE SUGGESTED SEQUENCE OF CONSTRUCTION.
- TEMPORARY CLOSED RUNWAY MARKERS SHALL BE YELLOW.
- TEMPORARY MARKERS SHALL BE MATERIAL APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL MAINTAIN AND RELOCATE MARKERS AS SHOWN ON THE PLANS OR AS NEEDED TO FACILITATE CONSTRUCTION.
- MARKERS ON PAVEMENT SHALL BE PLACED OVER EXISTING RUNWAY NUMERALS AS SHOWN.
- COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING MARKERS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.



AIRSIDE LOW PROFILE LIGHTED BARRICADE
NOT TO SCALE

BARRICADE NOTES

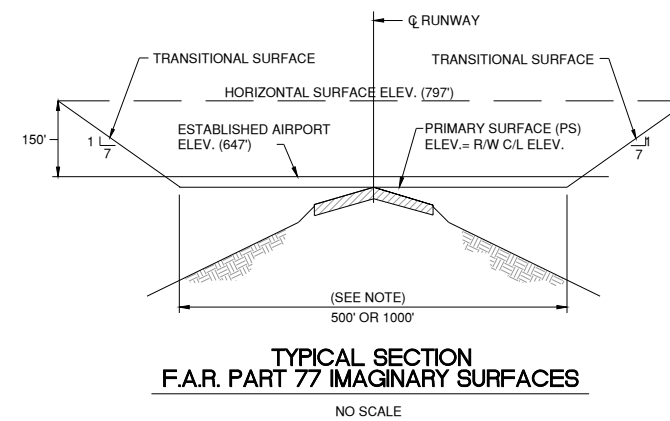
- FLASHER OR STEADY BURN LIGHTS SHALL BE BATTERY OPERATED. LENS SHALL BE RED AND BE ABLE TO ROTATE 90°.
- FACING OF BARRICADE SHALL BE COVERED WITH REFLECTIVE TAPE OR PAINT.
- BARRICADES TO BE PLACED WITH A MAXIMUM OF 4' SPACING END TO END UP TO THE EDGE OF PAVEMENT ALONG OPERATIONAL PAVEMENT ADJACENT TO CONSTRUCTION AS DIRECTED BY THE RESIDENT ENGINEER. ALTERNATE FLASHER OR STEADY BURN LENSES SO THAT EVERY OTHER LENS IS ROTATED 90°.
- FLASHER OR STEADY BURN LIGHTS SHALL BE SECURED TO THE BARRICADES, AS APPROVED BY THE RESIDENT ENGINEER.
- BARRICADES SHALL BE OF LOW MASS, EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT OR ANY OF IT COMPONENTS, AND WEIGHTED TO AVOID BEING BLOWN OVER.
- BARRICADES SHALL BE OF A COMMERCIAL DESIGN AND SHALL MEET CURRENT FAA REQUIREMENTS.
- PLACE ALL BARRICADES OUTSIDE RUNWAY SAFETY AREAS AND OUTSIDE TAXIWAY OBJECT FREE AREAS.
- ALL COST ASSOCIATED WITH THE LOW PROFILE BARRICADES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.



CLOSED TAXIWAY MARKER DETAIL
NOT TO SCALE

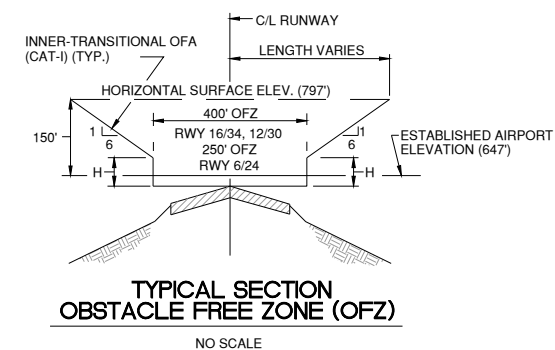
CLOSED TAXIWAY MARKER DETAIL NOTES

- CLOSED TAXIWAY MARKERS SHALL BE PAINTED YELLOW WITH TEMPORARY MARKING CAPABLE OF BEING REMOVED WITH LOW PRESSURE WATER BLASTING OR OTHER MATERIAL THAT DOES NOT VIOLATE THE OBJECT FREE AREA CRITERIA AND RUNWAY SAFETY AREA CRITERIA PER ADVISORY CIRCULAR 150/5300-13A (LATEST EDITION) AND ARE APPROVED BY THE RESIDENT ENGINEER AND AIRPORT.
- CONTRACTOR SHALL MAINTAIN AND RELOCATE MARKERS AS SHOWN ON THE PLANS OR AS NEEDED TO FACILITATE CONSTRUCTION.
- COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING MARKERS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- PLACE MARKERS OVER TAXIWAY CENTERLINE.
- MARKERS SHALL BE ADEQUATELY SECURED TO PREVENT MOVEMENT BY PROPELLER WASH, JET BLAST OR OTHER WIND CURRENTS.
- MARKERS ARE ONLY REQUIRED FOR CLOSURES EXCEEDING 72 HOURS.



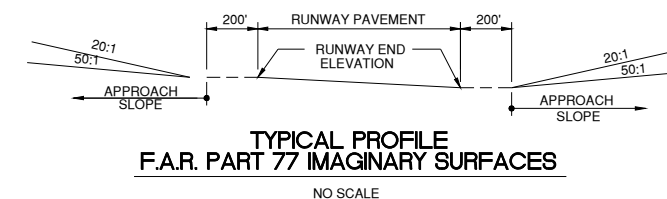
TYPICAL SECTION F.A.R. PART 77 IMAGINARY SURFACES
NO SCALE

NOTE:
IMAGINARY SURFACE REQUIREMENTS FOR EXISTING ACTIVE RUNWAYS (R/W) ARE SIMILAR EXCEPT PRIMARY SURFACE (PS) DIMENSIONS VARY R/W 6/24 & 12/30 500' PS (250' LT & RT OF C/L) R/W 16/34 1000' PS (500' LT & RT OF C/L)



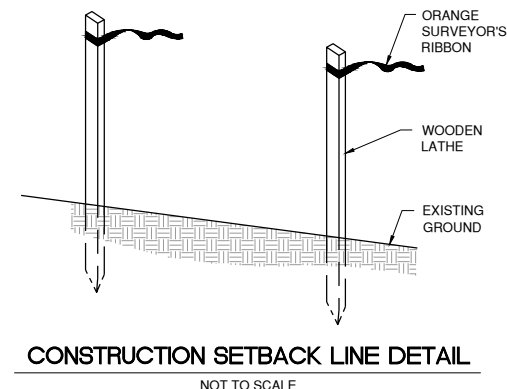
TYPICAL SECTION OBSTACLE FREE ZONE (OFZ)
NO SCALE

RUNWAY	TYPE OF RUNWAY	H (FEET)
16-34	PRECISION (CAT I)	48
6-24	VISUAL	150



TYPICAL PROFILE F.A.R. PART 77 IMAGINARY SURFACES
NO SCALE

RUNWAY END	ELEVATION	APPROACH SLOPE
16	643	50:1
34	644	20:1
12	645	20:1
30	640	20:1
6	647	20:1
24	638	20:1



CONSTRUCTION SETBACK LINE DETAIL
NOT TO SCALE

CONSTRUCTION SETBACK NOTES

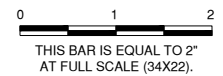
- CONTRACTOR SHALL MARKER THE RUNWAY SAFETY AREA, TAXIWAY OBJECT FREE AREA AND RUNWAY OBSTACLE FREE ZONE PER THE CONSTRUCTION SETBACK DETAIL AS DIRECTED BY THE RESIDENT ENGINEER.
- ALL COST ASSOCIATED WITH THE CONSTRUCTION SETBACK LINE SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

IL CONTRACT: **PA063**
IL LETTING ITEM: **12A**
IL PROJECT: **PWK-4843**
S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS

NUMBER	BY	DATE



CHICAGO EXECUTIVE AIRPORT
 WHEELING/PROSPECT HEIGHTS, ILLINOIS
 REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALOMS

SEQUENCE OF CONSTRUCTION
 GENERAL NOTES AND DETAILS - SHEET 2

© Copyright CMT, Inc.

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

CHICAGO EXECUTIVE AIRPORT

DESIGN BY: **KWS**

DRAWN BY: **JRO**

CHECKED BY: **KWS**

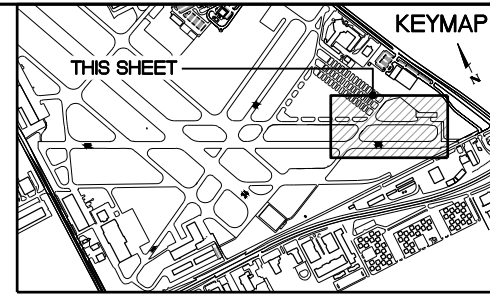
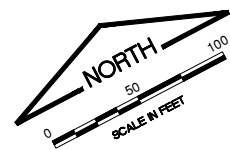
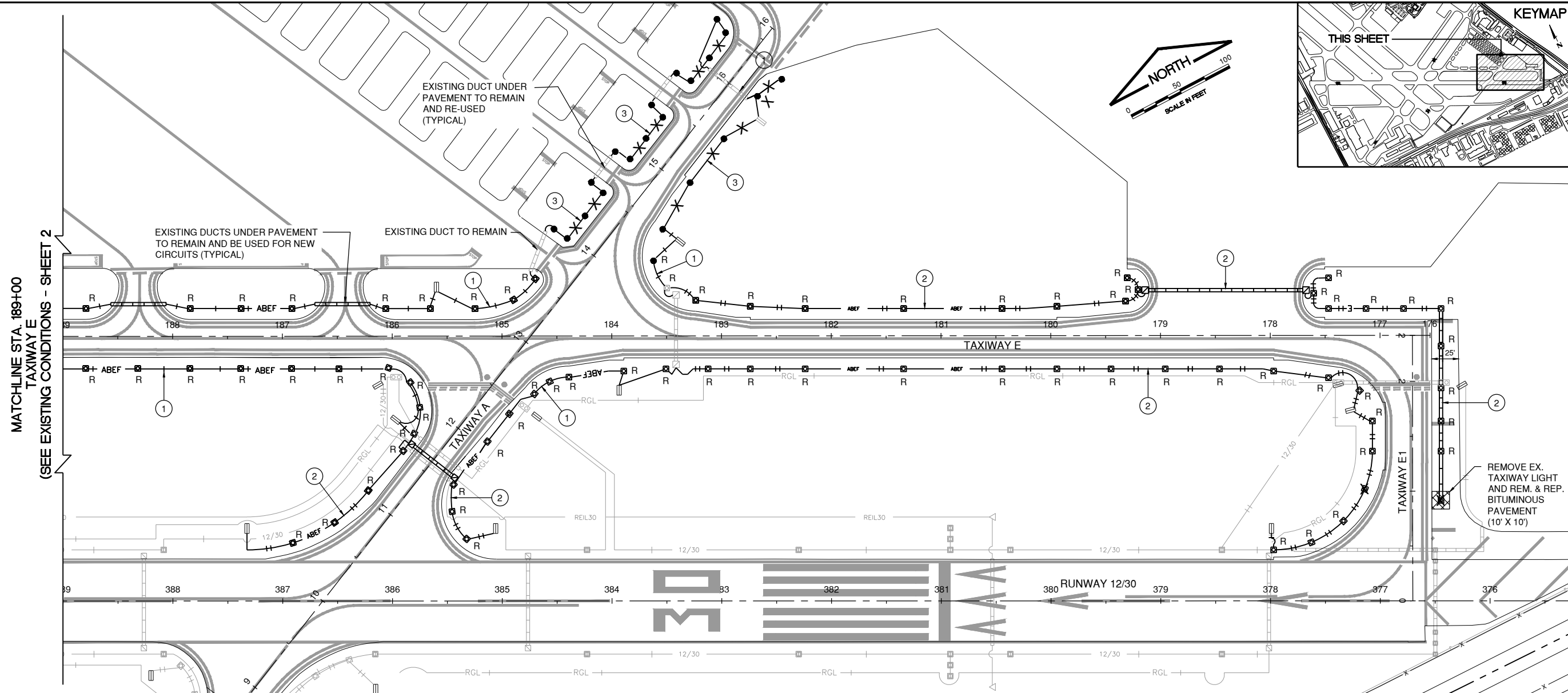
APPROVED BY: **DKP**

DATE: 12/10/2021

JOB No: 20029004.00

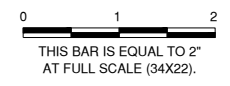
FINAL

SHEET 11 OF 35 SHEETS



IL CONTRACT: PA063
 IL LETTING ITEM: 12A
 IL PROJECT: PWK-4843
 S.B.G. PROJECT:
 SURVEY BOOK #

REVISIONS		
NUMBER	BY	DATE



MATCHLINE STA. 189+00
 TAXIWAY E
 (SEE EXISTING CONDITIONS - SHEET 2)

CHICAGO EXECUTIVE AIRPORT
 WHEELING/PROSPECT HEIGHTS, ILLINOIS
 REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALOMS
 EXISTING CONDITIONS AND REMOVALS - SHEET 1

EXISTING CONDITIONS LEGEND

<ul style="list-style-type: none"> ▣ EXISTING BASE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT ○ EXISTING STAKE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT ▣ EXISTING BASE MOUNTED HIGH INTENSITY RUNWAY LIGHT ▣ EXISTING STAKE MOUNTED HIGH INTENSITY RUNWAY LIGHT ● EXISTING IN PAVEMENT MOUNTED HIGH INTENSITY RUNWAY LIGHT ⊗ EXISTING ELEVATED RETROREFLECTIVE MARKER □ EXISTING VISUAL APPROACH SLOPE INDICATOR (VASI) △ EXISTING RUNWAY END IDENTIFIER LIGHT (REIL) ▣ EXISTING APPROACH LIGHTING SYSTEM ▣ EXISTING AIRFIELD GUIDANCE SIGN ▣ EXISTING WINDCONE ⊙ EXISTING WINDCONE WITH SEGMENTED CIRCLE ▣ EXISTING ELECTRICAL TRANSFORMER ● EXISTING ELECTRICAL/STORM/SANITARY/TELEPHONE MANHOLE OR EXISTING WATER VALVE VAULT ▣ EXISTING ELECTRICAL HANDHOLE ▣ EXISTING STORM INLET ▣ EXISTING SLOPE BOX ▽ EXISTING FLARED END SECTION ⋈ EXISTING HEADWALL ⊙ EXISTING CLEANOUT STRUCTURE ⊙ EXISTING FLUSH MOUNTED FIRE HYDRANT ⊗ EXISTING WATER VALVE ⊗ EXISTING UTILITY PEDESTAL 	<ul style="list-style-type: none"> — EXISTING CONDUIT/DUCT BANK — 16/34 — EXISTING RUNWAY 16/34 CIRCUIT — 12/30 — EXISTING RUNWAY 12/30 CIRCUIT — 6/24 — EXISTING RUNWAY 6/24 CIRCUIT — 16APP — EXISTING RUNWAY 16 APPROACH LIGHTING CIRCUIT — G/D — EXISTING TAXIWAY G AND D CIRCUIT — ABEF — EXISTING TAXIWAY A, B, D, E, F, L4 AND Y CIRCUIT (TO BE REMOVED) — KILO — EXISTING TAXIWAY KILO CIRCUIT — HFC — EXISTING TAXIWAY HFC CIRCUIT — ECHO — EXISTING TAXIWAY ECHO CIRCUIT (TO BE REMOVED) — REIL — EXISTING REIL CABLES — VASI — EXISTING VASI CABLES — FAA — EXISTING FAA CABLES — FAA COMED — EXISTING COMED SERVICE TO FAA ILS SYSTEM — FAA WIND — EXISTING FAA WIND INSTRUMENT CABLES — PRIESTER — EXISTING PRIESTER AVIATION CABLES —) — EXISTING STORM SEWER — UD — EXISTING UNDERDRAIN — W — EXISTING WATERMAIN — SAN — EXISTING SANITARY SEWER — SAN — EXISTING SEWER IN CASING PIPE — T — EXISTING TELEPHONE LINES — CATV — EXISTING CABLE TELEVISION LINES
--	---

REMOVALS LEGEND

- ① REMOVE 1/C #8 5KV UG CABLE IN EXISTING CONDUIT, TAXIWAY A,B,D,E,F,L4,Y,Z CIRCUIT (CONDUIT TO REMAIN)
- ② REMOVE 2 - 1/C #8 5KV UG CABLE IN EXISTING CONDUIT, TAXIWAY A,B,D,E,F,L4,Y,Z CIRCUIT (CONDUIT TO REMAIN)
- ③ REMOVE 1/C #8 5KV UG CABLE AND REMOVE EXISTING DUCT
- ④ REMOVE 2 - 1/C #8 5KV UG CABLE AND REMOVE EXISTING DUCT
- ⑤ DISCONNECT TAXIWAY CIRCUIT A,B,D,E,F,L4,Y,Z AT EXISTING FIXTURE
- REMOVE EXISTING STAKE MOUNTED LIGHT
- X REMOVAL ITEM
- R REMOVE BASE MOUNTED LIGHT FIXTURE (TO BE PAID UNDER PAY ITEM "AR125922 - REPLACE BASE MOUNTED LIGHT")
- REL RELOCATE BASE MOUNTED LIGHT

NOTES

1. EXISTING CIRCUITS TO BE REMOVED SHALL BE PAID FOR UNDER PAY ITEM "AR108960 - REMOVE CABLE". EXISTING CONDUITS TO BE REMOVED SHALL BE PAID FOR UNDER PAY ITEM "AR110900 - REMOVE DUCT".
2. EXISTING LIGHTS, GUIDANCE SIGNS, AND AIRFIELD CIRCUITS, OTHER THAN THOSE INDICATED FOR REMOVAL, ARE TO BE PROTECTED FROM DAMAGE. CONTRACTOR IS TO REPAIR ALL DAMAGED EQUIPMENT AND CIRCUITS AT HIS EXPENSE.
3. LIGHT FIXTURES, LAMPS, TRANSFORMERS, AND SIGNS AND ELEVATED MARKERS TO BE REMOVED SHALL BE TURNED OVER TO AIRPORT MAINTENANCE. IF AIRPORT MAINTENANCE DOES NOT WANT ANY OF THE REMOVED MATERIALS, THEN THE CONTRACTOR SHALL DISPOSE OF OFF AIRPORT PROPERTY AT NO ADDITIONAL COST TO THE CONTRACT. LIGHT BASES AND SIGN FOUNDATIONS SHALL BE DISPOSED OF OFF AIRPORT PROPERTY.
4. WHEN NEW CABLES ARE TO BE INSTALLED IN EXISTING CONDUITS, CONTRACTOR SHALL REMOVE ABANDONED CABLE FROM EXISTING CONDUIT.
5. ALL EXISTING AIRFIELD LIGHTING CIRCUITS CONNECTED TO SIGNS SHALL BE REMOVED AND REPLACED WITH NEW CIRCUIT AS SHOWN ON THE PLANS.
6. CONTRACTOR SHALL COORDINATE WITH FAA TO LOCATE EXISTING FAA FACILITIES.
7. CONTRACTOR SHALL FIELD INVESTIGATE AND VERIFY EXISTING CIRCUIT ROUTING. INSTALL JUMPERS BETWEEN EXISTING LIGHTS TO KEEP EXISTING CIRCUITS OPERATIONAL FOR EACH CONSTRUCTION PHASE AS LISTED ON PHASING SHEETS. THE COST OF ALL TEMPORARY CONNECTIONS SHALL BE INCIDENTAL TO THE CONTRACT.
8. SEE AIRFIELD ELECTRICAL IMPROVEMENT PLAN SHEETS FOR REMOVE AND REPLACE BASE MOUNTED LIGHTS.
9. NUMBER OF TICK MARKS FOR EACH CIRCUIT REPRESENTS NUMBER OF EXISTING CONDUCTORS IN EACH CONDUIT.

© Copyright CMT, Inc.
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613
CHICAGO EXECUTIVE AIRPORT

DESIGN BY:	KWS
DRAWN BY:	JRO
CHECKED BY:	KWS
APPROVED BY:	DKP
DATE:	12/10/2021
JOB No:	20029004.00

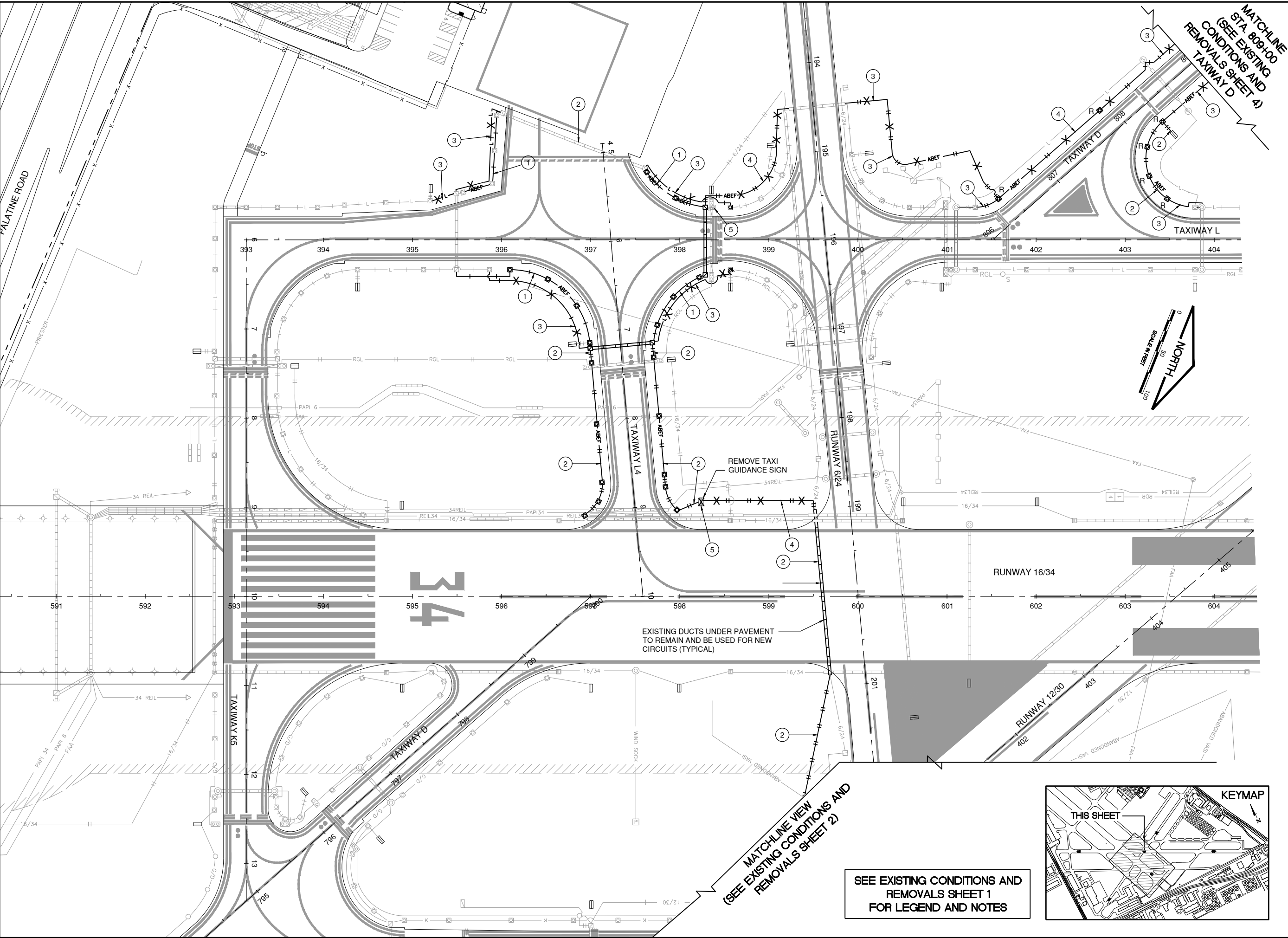
FINAL

DATE: Thursday, December 9, 2021 9:54:59 AM
 FILE: K:\ChicagoEnergy\2020\2021\14-Existing Conditions and Removals\14-Existing Conditions and Removals - Sheet 1.dwg
 XREF DWG: 14-Existing Conditions and Removals - Sheet 1.dwg
 14-Existing Conditions and Removals - Sheet 1.dwg
 14-Existing Conditions and Removals - Sheet 1.dwg
 14-Existing Conditions and Removals - Sheet 1.dwg

UPDATE BY: Kris Salvatera
 LAYOUT: EXISTING CONDITIONS AND REMOVALS - SHEET 1

IMAGE FILES: pmw\m\14-Existing Conditions and Removals - Sheet 1.dwg
 PALATINE ROAD
 PRESTER

DATE: Thursday, December 9, 2021 9:54:59 AM
 FILE: K:\ChicagoEnergy\2020\2021\14-Existing Conditions and Removals\14-Existing Conditions and Removals - Sheet 1.dwg
 XREF DWG: 14-Existing Conditions and Removals - Sheet 1.dwg
 14-Existing Conditions and Removals - Sheet 1.dwg
 14-Existing Conditions and Removals - Sheet 1.dwg
 14-Existing Conditions and Removals - Sheet 1.dwg



IL CONTRACT: PA063
 IL LETTING ITEM: 12A
 IL PROJECT: PWK-4843
 S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS		
NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

CHICAGO EXECUTIVE AIRPORT
 WHEELING/PROSPECT HEIGHTS, ILLINOIS
 REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALOMS

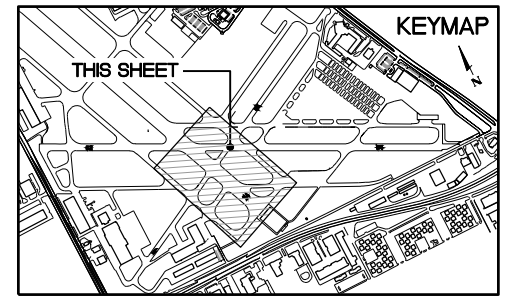
EXISTING CONDITIONS AND REMOVALS - SHEET 3

© Copyright CMT, Inc.

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

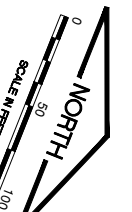
CHICAGO EXECUTIVE AIRPORT

DESIGN BY:	KWS
DRAWN BY:	JRO
CHECKED BY:	KWS
APPROVED BY:	DKP
DATE:	12/10/2021
JOB No:	20029004.00
FINAL	
SHEET 16 OF 35 SHEETS	



MATCHLINE VIEW
 (SEE EXISTING CONDITIONS AND REMOVALS SHEET 2)

SEE EXISTING CONDITIONS AND REMOVALS SHEET 1 FOR LEGEND AND NOTES



EXISTING DUCTS UNDER PAVEMENT TO REMAIN AND BE USED FOR NEW CIRCUITS (TYPICAL)

REMOVE TAXI GUIDANCE SIGN

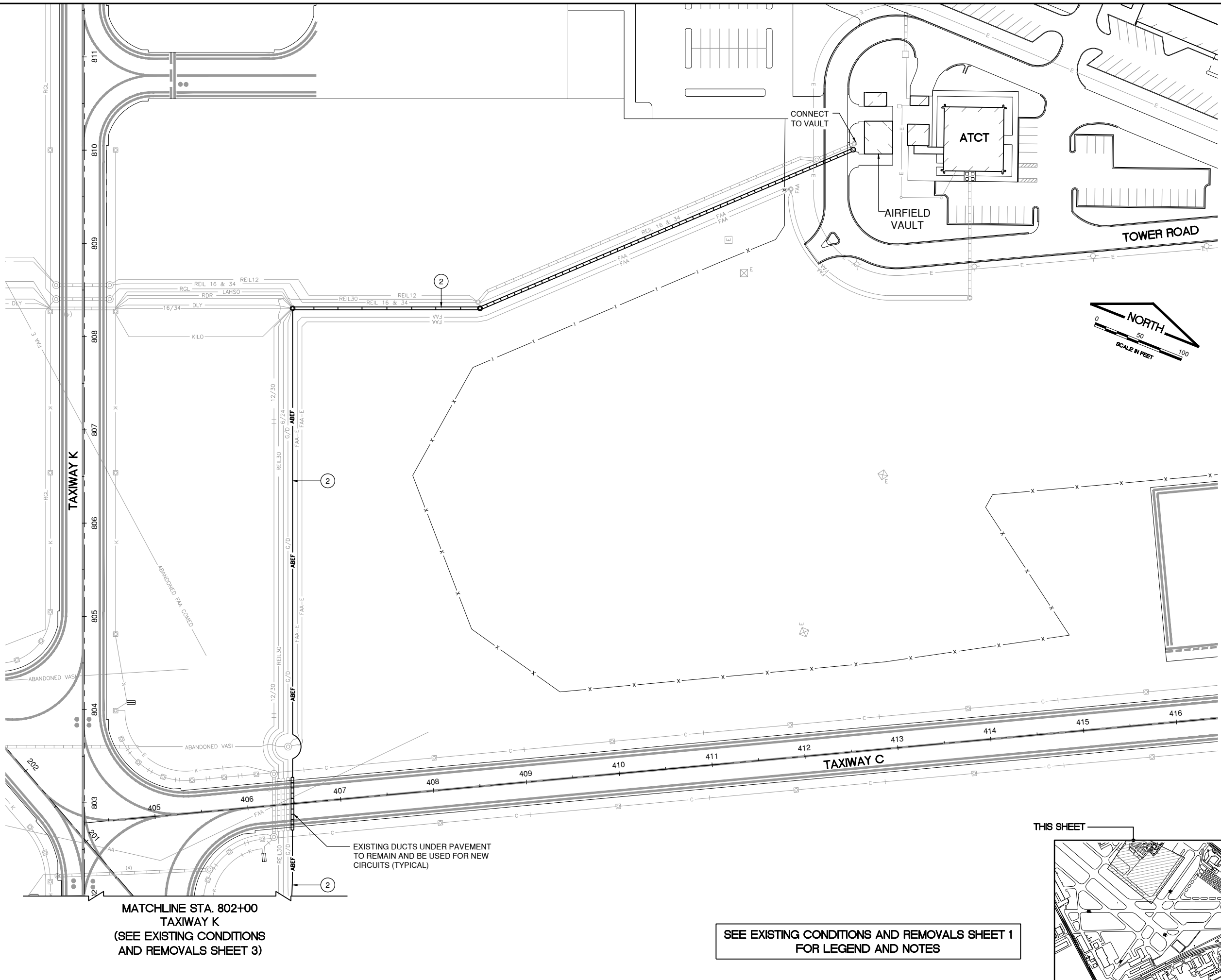
MATCHLINE STA. 809+00
 (SEE EXISTING CONDITIONS AND REMOVALS SHEET 4)

XREF DWG: **rehab airfield lighting.dwg**
 GEA: **GEA**
 1/20/2024, sheet of 89-19.dwg
 rehab airfield lighting base.dwg

IMAGE FILES: **pkw\m\LOGO_GEA+Color-Small (2).jpg**

UPDATE BY: **Kris Salvatera**
 LAYOUT: **Layout6**

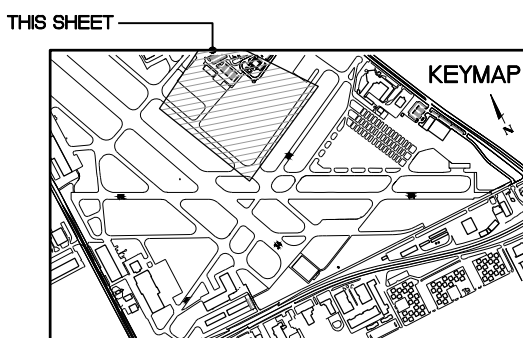
DATE: **Thursday, December 9, 2021 9:55:24 AM**
 FILE: **K:\ChicagoExecAirp\2023004_RehabAirfieldLighting\Plt\Draw\Sheet14_Existing Conditions and Removals - Sheet 1.dwg**



MATCHLINE STA. 802+00
TAXIWAY K
(SEE EXISTING CONDITIONS
AND REMOVALS SHEET 3)

EXISTING DUCTS UNDER PAVEMENT
 TO REMAIN AND BE USED FOR NEW
 CIRCUITS (TYPICAL)

SEE EXISTING CONDITIONS AND REMOVALS SHEET 1
FOR LEGEND AND NOTES



IL CONTRACT: **PA063**
 IL LETTING ITEM: **12A**
 IL PROJECT: **PWK-4843**
 S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS		
NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2"
 AT FULL SCALE (34X22).

CHICAGO EXECUTIVE AIRPORT
WHEELING/PROSPECT HEIGHTS, ILLINOIS
REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALOMS

EXISTING CONDITIONS AND REMOVALS -
SHEET 5

© Copyright CMT, Inc.

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

CHICAGO EXECUTIVE AIRPORT

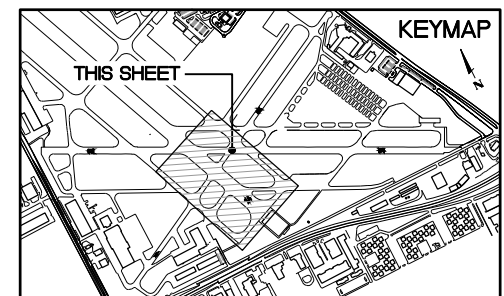
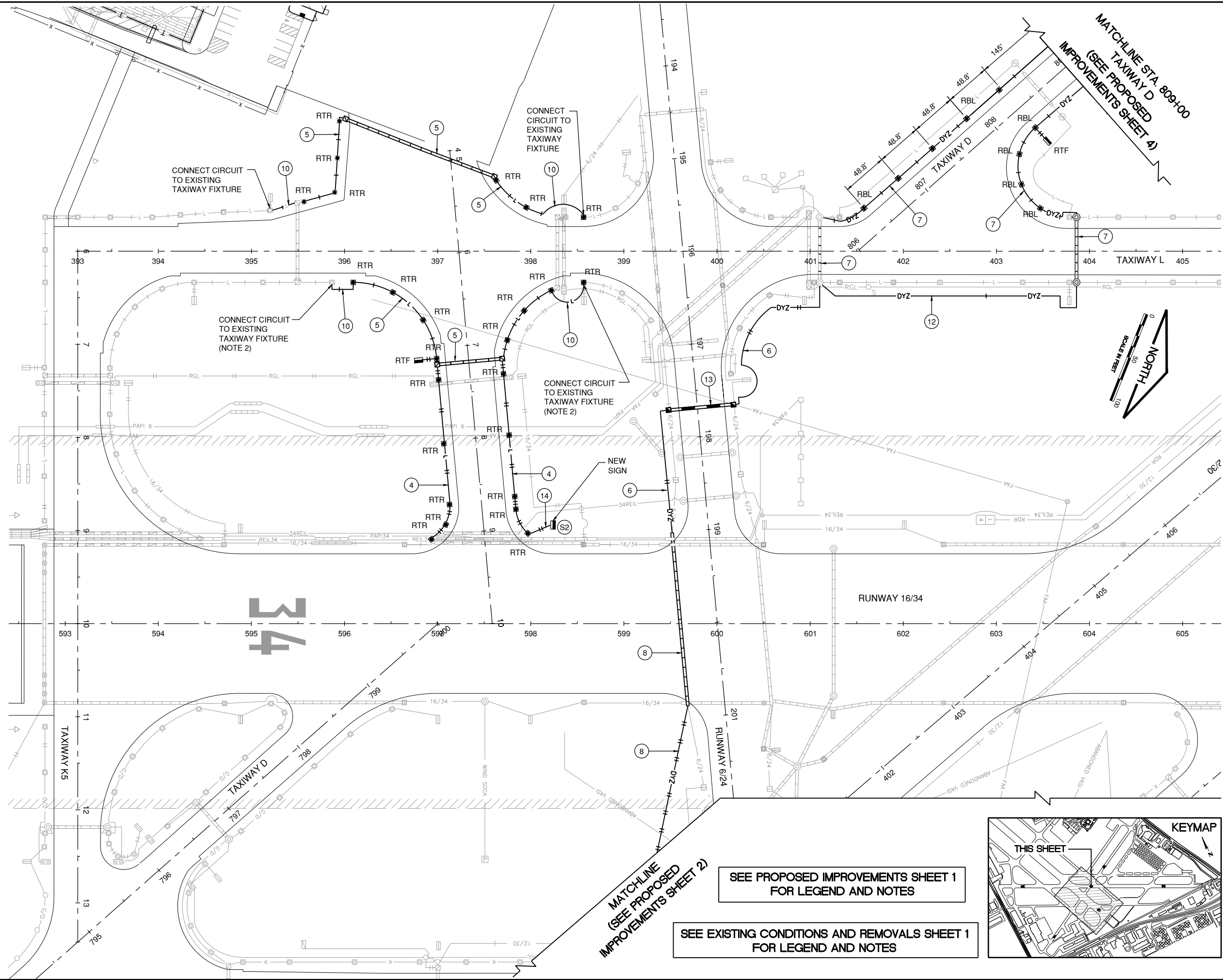
DESIGN BY:	KWS
DRAWN BY:	JRO
CHECKED BY:	KWS
APPROVED BY:	DKP
DATE:	12/10/2021
JOB No:	20029004.00
FINAL	
SHEET	18 OF 35 SHEETS

DATE: Thursday, December 9, 2021 9:56:04 AM
 FILE: K:\ChicagoExecAirport\202004\Draw\Sheet22\Airfield Electrical Improvement Plan - Sheet 5.dwg
 16022004.dwg
 rebase airfield lighting base.dwg

UPDATE BY: Kris Salvatera
 LAYOUT: PROPOSED IMPROVEMENTS PLAN - SHEET 3

IMAGE FILES: pwk\mwd\ODG\CGA+COG+Small (2).jpg

DATE: Thursday, December 9, 2021 9:56:04 AM
 FILE: K:\ChicagoExecAirport\202004\Draw\Sheet22\Airfield Electrical Improvement Plan - Sheet 5.dwg



MATCHLINE
 (SEE PROPOSED
 IMPROVEMENTS SHEET 2)

SEE PROPOSED IMPROVEMENTS SHEET 1
 FOR LEGEND AND NOTES

SEE EXISTING CONDITIONS AND REMOVALS SHEET 1
 FOR LEGEND AND NOTES

IL CONTRACT: PA063
 IL LETTING ITEM: 12A
 IL PROJECT: PWK-4843
 S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS		
NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2"
 AT FULL SCALE (34X22).

CHICAGO EXECUTIVE AIRPORT
 WHEELING/PROSPECT HEIGHTS, ILLINOIS
 REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALOMS

**PROPOSED IMPROVEMENTS PLAN -
 SHEET 3**

© Copyright CMT, Inc.

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

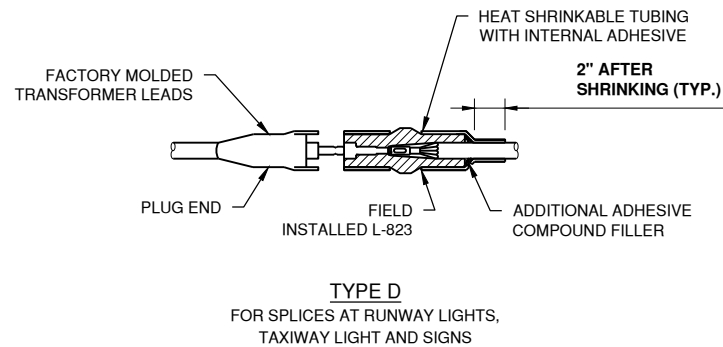
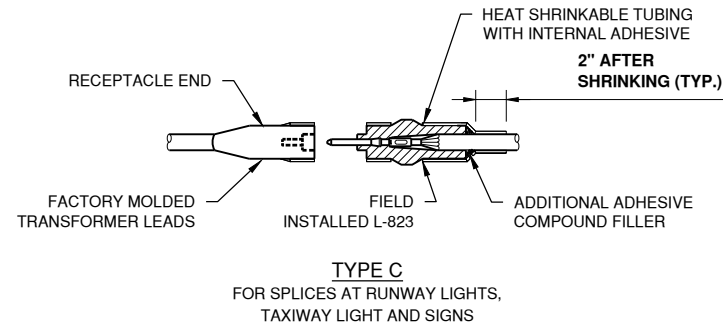
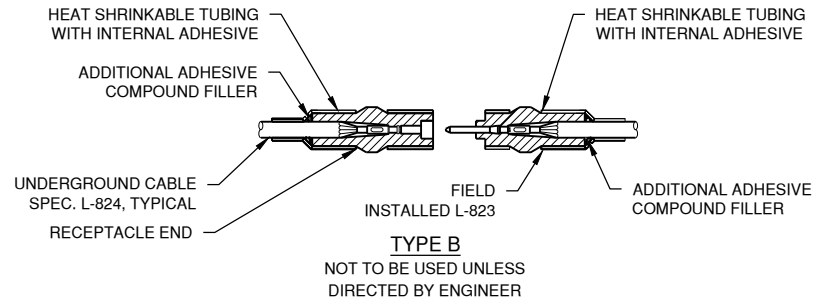
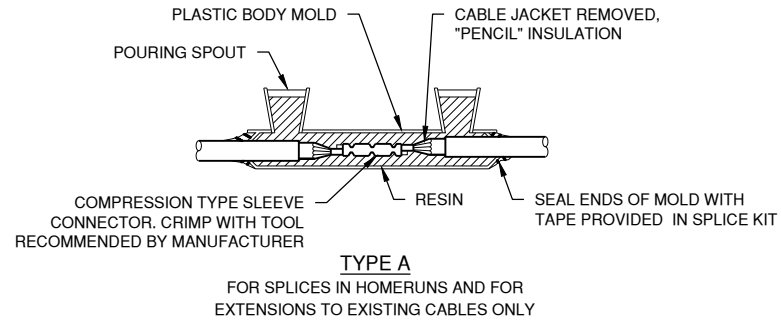
CHICAGO EXECUTIVE AIRPORT

DESIGN BY:	KWS
DRAWN BY:	JRO
CHECKED BY:	KWS
APPROVED BY:	DKP
DATE:	12/10/2021
JOB No:	20029004.00

FINAL

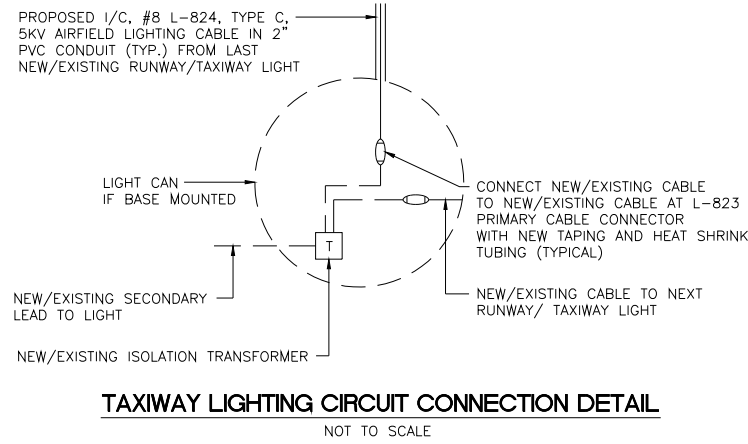
SHEET 21 OF 35 SHEETS

DATE: Thursday, December 9, 2021 9:56:35 AM
 FILE: K:\Chicago\Tech\2020\2004-RehabilitateAirfieldLighting\Draw\Sheets\27 Electrical Details - Sheet 5.dwg
 UPDATE BY: Kris Solvetera
 LAYOUT: ELECTRICAL DETAILS - SHEET 1
 REF: DWG: 202004-RehabilitateAirfieldLighting\Draw\Sheets\27 Electrical Details - Sheet 5.dwg
 IMAGE FILES: pwknewLOGO_CEA-4-Color-Small.pdf (2) 10



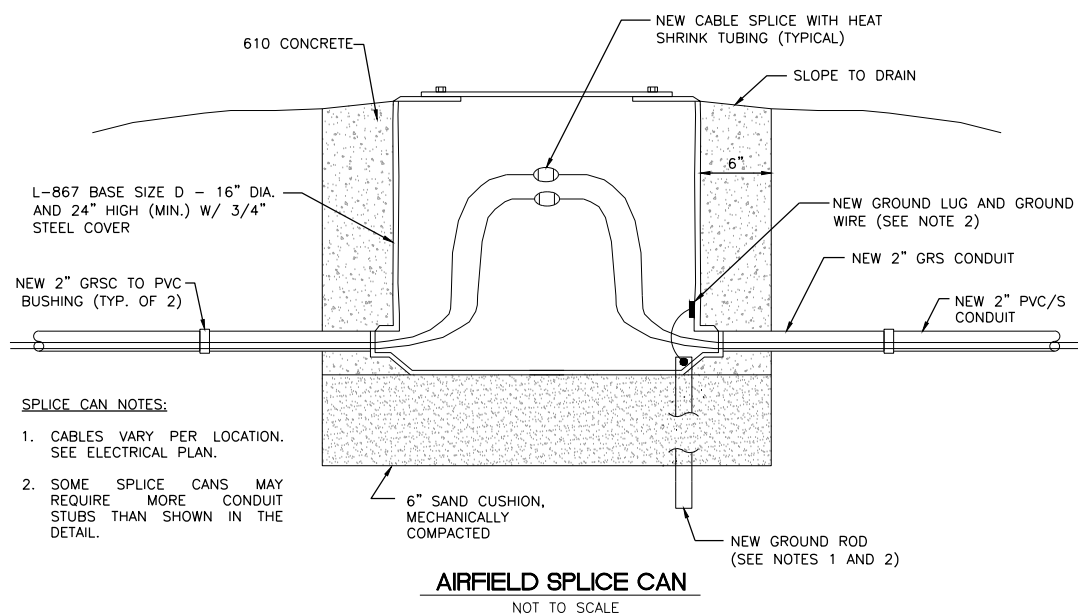
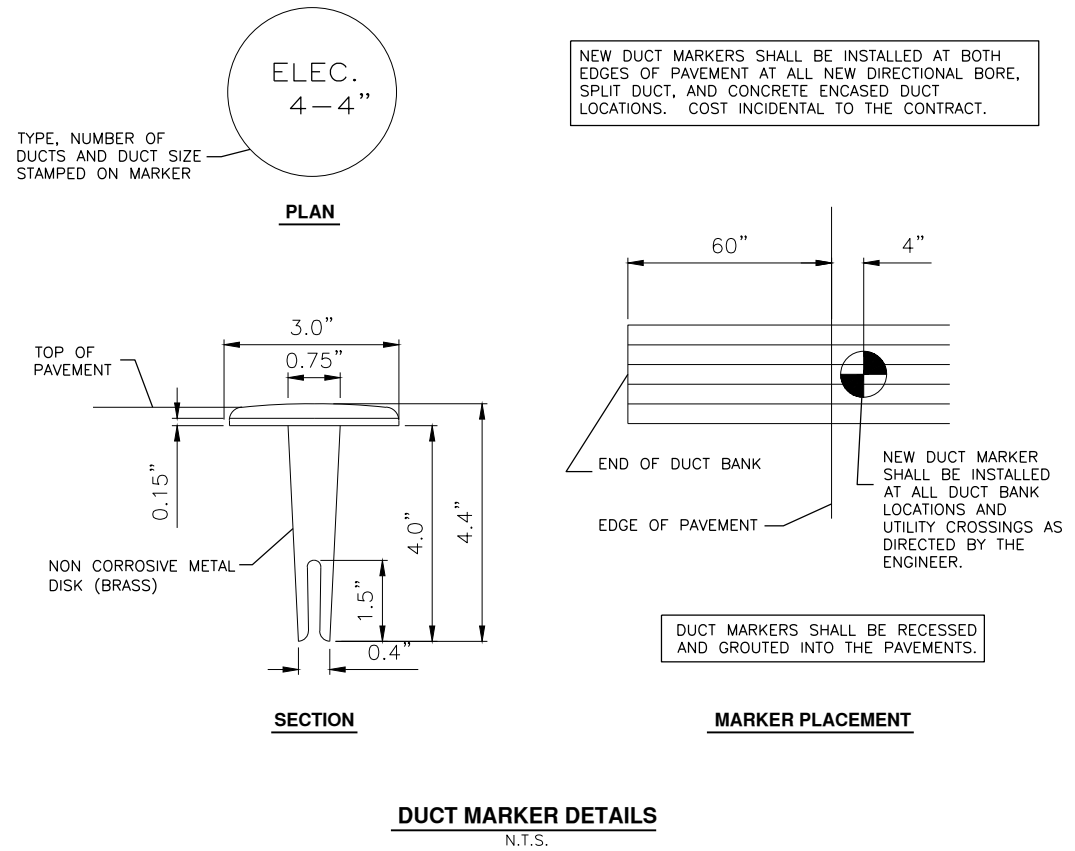
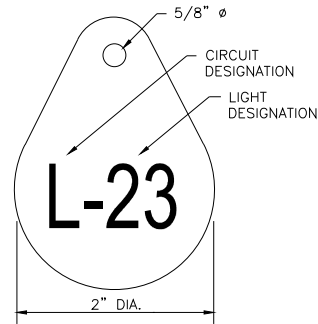
SPLICE NOTES

- INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE.
- WRAP WITH AT LEAST ONE LAYER OF RUBBER OR SYNTHETIC RUBBER TAPE AND ONE LAYER OF PLASTIC TAPE, ONE-HALF LAPPED, EXTENDING AT LEAST 1-1/2 INCHES ON EACH SIDE OF JOINT.
- THE COST OF FURNISHING AND INSTALLING ALL SPLICE MATERIALS SHALL BE INCIDENTAL TO THE ASSOCIATED CABLE ITEMS.
- THE CONTRACTOR SHALL HAVE A MINIMUM OF FIVE (5) TYPE A SPLICE KITS ON THE JOB SITE AT ALL TIMES FOR EMERGENCY REPAIRS.
- THE CONTRACTOR MAY ELECT TO USE AN FAA APPROVED "COMPLETE" KIT IN LIEU OF HEAT SHRINK KIT AT NO ADDITIONAL COST.



NOTES

- INSTALL A NON-CORROSIVE DISC OF 2" MINIMUM DIAMETER WITH THE NUMBER PERMANENTLY STAMPED, CUT OUT, OR ENGRAVED UNDER THE HEAD OF THE BASE PLATE BOLT OR ATTACHED TO LIGHT FLANGE WITH A SET SCREW.
- NUMERALS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ALL EXISTING AND PROPOSED TAXIWAY AND RUNWAY LIGHTS AND SIGNS SHALL BE TAGGED AS DIRECTED BY THE RESIDENT ENGINEER. ALL LIGHTS ON EXISTING CIRCUITS THAT HAVE LIGHTING IMPROVEMENTS (PROPOSED OR RELOCATED LIGHTS) SHALL BE RETAGGED.
- COST OF TAGGING LIGHTS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- COORDINATE WITH RESIDENT ENGINEER FOR TAXIWAY LIGHTING TAG NUMBERS.



SPLICE CAN NOTES:

- CABLES VARY PER LOCATION. SEE ELECTRICAL PLAN.
- SOME SPLICE CANS MAY REQUIRE MORE CONDUIT STUBS THAN SHOWN IN THE DETAIL.

NOTES:

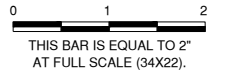
- INSTALL SAFETY GROUND TO EXISTING SIGNS AND L-867 CANS. ATTACH GROUND LUG TO EXISTING CAN AND INSTALL GROUND ROD AS SHOWN ON PLANS.
- INSTALL 1/C #6 AWG BARE COPPER GROUND JUMPER CONNECTED TO GROUND LUG INSIDE BASE CAN AND EXOTHERMICALLY WELDED TO GROUND ROD. INSTALL GROUND LUG FOR EXISTING CANS, IF REQUIRED.

IL CONTRACT: **PA063**
IL LETTING ITEM: **12A**
IL PROJECT: **PWK-4843**
S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS

NUMBER	BY	DATE



CHICAGO EXECUTIVE AIRPORT
 WHEELING/PROSPECT HEIGHTS, ILLINOIS
 REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALOMS

ELECTRICAL DETAILS - SHEET 1

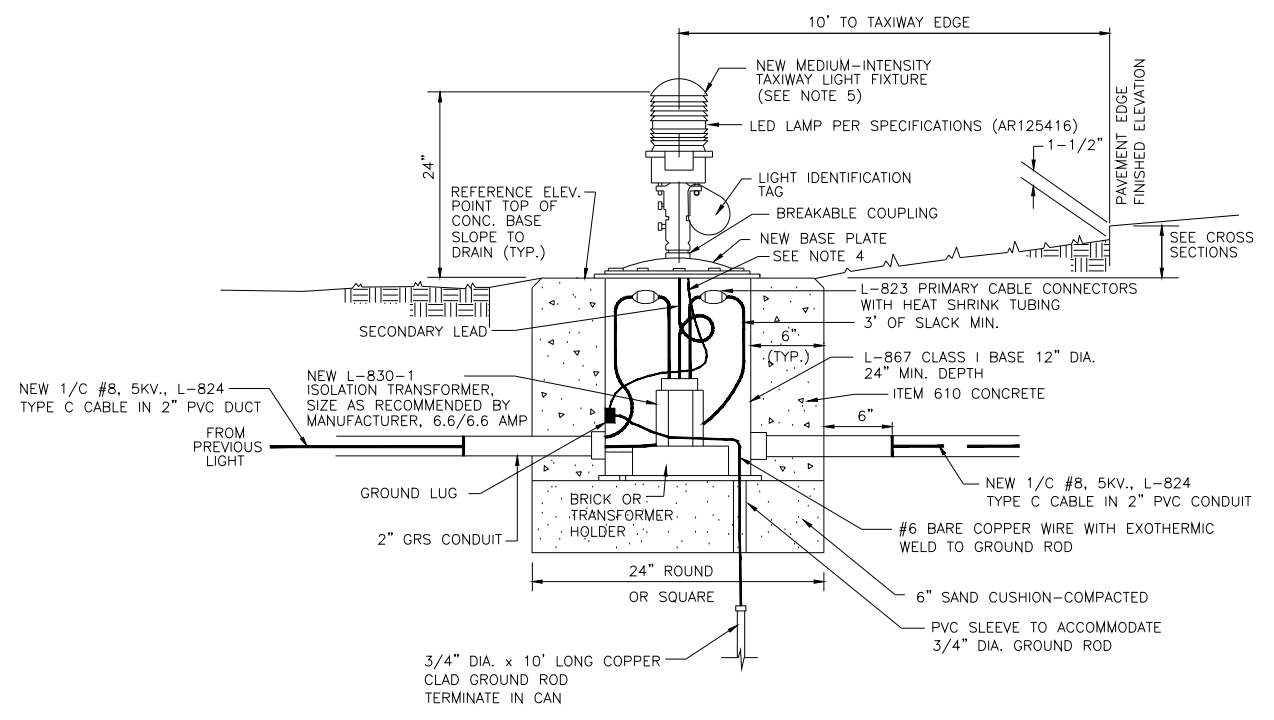
© Copyright CMT, Inc.
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

CHICAGO EXECUTIVE AIRPORT

DESIGN BY: KWS
 DRAWN BY: JRO
 CHECKED BY: KWS
 APPROVED BY: DKP
 DATE: 12/10/2021
 JOB No: 20029004.00

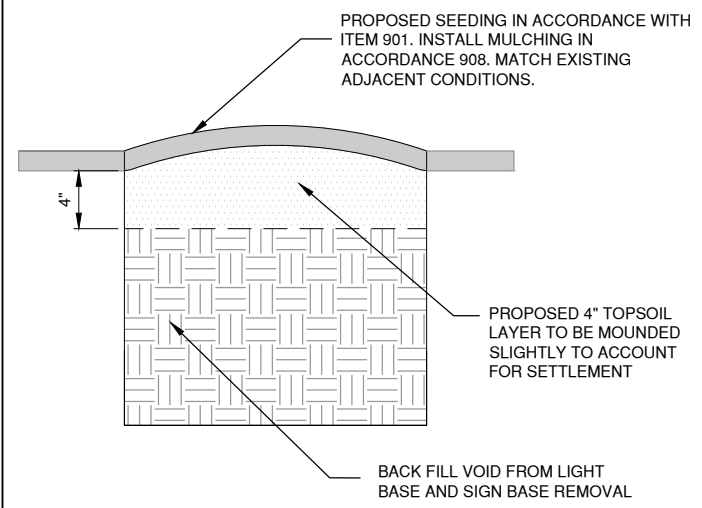
FINAL

DATE: Thursday, December 9, 2021 9:56:38 AM
 FILE: K:\Chicago\tech\20029004_RehabilitateLighting\Draw\Sheet\27_Electrical_Details - Sheet 5.dwg
 UPDATE BY: Kris Solvetero
 LAYOUT: ELECTRICAL DETAILS - SHEET 2
 IMAGE FILES: pwknewLOGO_CEA-4-Cor-Steel (2).jpg
 XREF DWG: \chicago\tech\20029004_RehabilitateLighting\Draw\Sheet\27_Electrical_Details - Sheet 5.dwg



NEW BASE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT
NOT TO SCALE

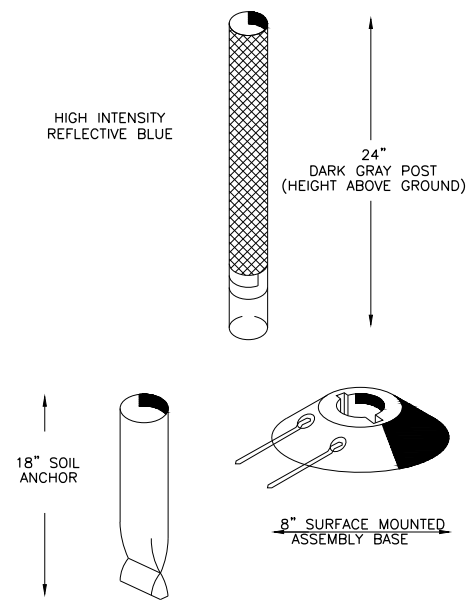
- LIGHTING NOTES**
1. TRANSFORMER WATTAGE AS RECOMMENDED BY MANUFACTURER FOR EACH LAMP TYPE.
 2. NON-LED FIXTURES SHALL UTILIZE QUARTZ LAMPS.
 3. ARCTIC KIT SHALL NOT BE REQUIRED FOR LED FIXTURES.
 4. THE LIGHT FIXTURE SHALL BE BONDED TO THE LIGHT BASE INTERNAL GROUND LUG VIA A #6 AWG STRANDED COPPER WIRE RATED FOR 600 VOLTS WITH GREEN XHHW INSULATION. THE GROUND WIRE LENGTH SHALL BE SUFFICIENT TO ALLOW THE REMOVAL OF THE LIGHT FIXTURE FROM THE LIGHT BASE FOR ROUTINE MAINTENANCE. SEE THE LIGHT FIXTURE MANUFACTURER'S INSTRUCTIONS FOR PROPER METHODS OF ATTACHING THIS BONDING WIRE.
 5. LED LIGHT FIXTURES SHALL BE L-861T AS INDICATED ON THE PLANS AND SPECIFICATIONS.
 6. AFTER INSTALLATION OF CABLE IN UNIT DUCT, SEAL END OF CONDUIT TO MAKE WATERTIGHT.
 7. PRECAST BASE MAY BE USED.



COMPLETED STAKE MOUNTED LIGHT, BASE MOUNTED LIGHT AND SIGN REMOVAL
N.T.S.

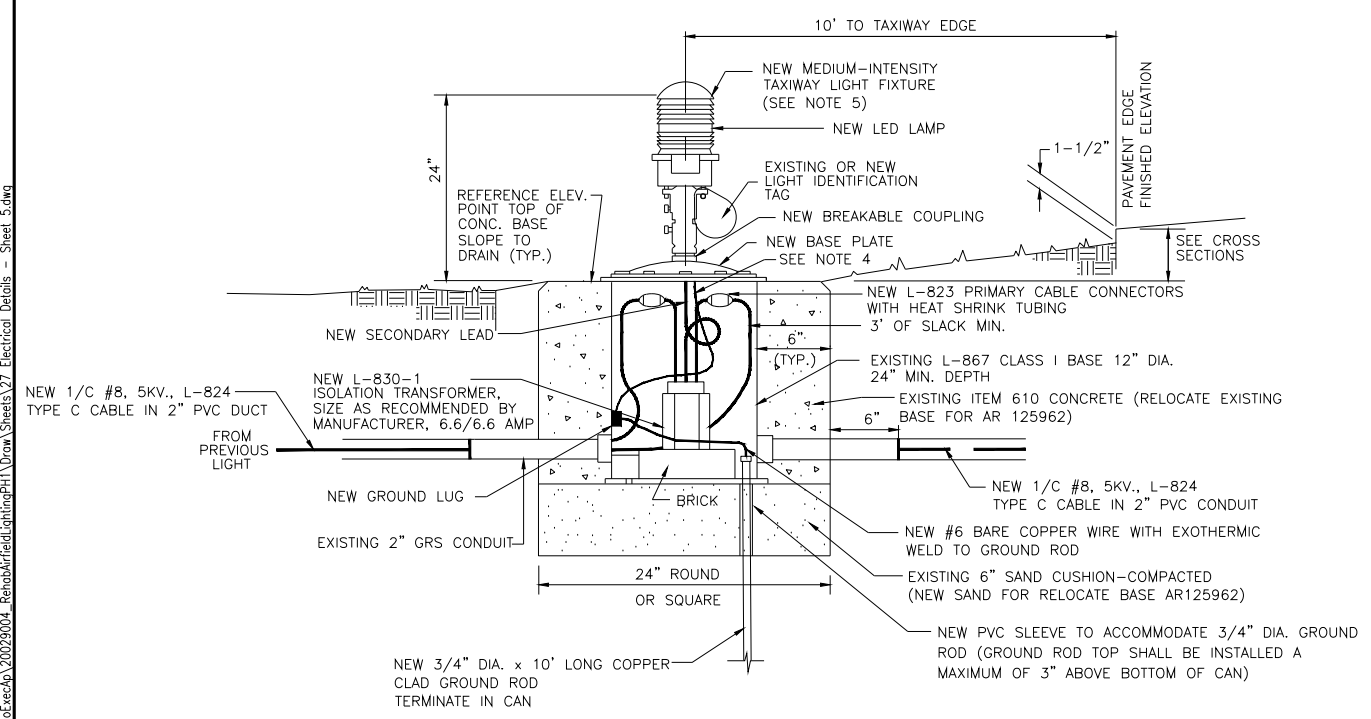
NOTE: COST OF BACKFILL AND RESTORATION SHALL BE INCIDENTAL TO THE CONTRACT.

- GENERAL NOTES**
1. TRANSFORMER HOLDER MAY BE ANY COMMERCIALY AVAILABLE BRICK.
 2. BREAKING GROOVE COUPLINGS SHALL NOT BE OVER 1" ABOVE GROUND LINE.
 3. ISOLATION TRANSFORMERS SHALL HAVE A FACTORY INSTALLED PLUG (TYPE 1, CLASS A, STYLE 2) AND RECEPTACLE (TYPE 1, CLASS A, STYLE 9), A TYPE 1, CLASS B, STYLE 3 PLUG AND TYPE 1, CLASS B, STYLE 10 RECEPTACLE SHALL BE INSTALLED ON THE 1/C, No. 8, 5000 V., L-824 TYPE C CABLES FOR CONNECTION TO EACH TRANSFORMER.
 4. TO FURTHER REDUCE THE POSSIBILITY OF WATER/MOISTURE ENTRANCE INTO THE CONNECTOR BETWEEN THE CABLE AND THE FIELD ATTACHED CONNECTOR, IT IS REQUIRED THAT A HEAT SHRINKABLE TUBING WITH INTERNAL ADHESIVE BE APPLIED OVER THE ENTIRE CABLE CONNECTOR.
 5. AT THE CONTRACTOR'S OPTION, IN LIEU OF TAPE AND HEAT SHRINKABLE TUBING, A SELF-SEALING STYLE CONNECTOR L-823 "COMPLETE KITS" OR FAA APPROVED EQUAL MAY BE USED.
 6. LAMP FOR FIXTURES SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS. ISOLATION TRANSFORMERS SHALL BE SIZED PER THE FIXTURE MANUFACTURER, 6.6 AMP.
 7. THE CONCRETE BASE FOR BASE MOUNTED LIGHTS AND SIGNS SHALL BE TROWEL FINISHED WITH A 45° BEVELED EDGE AND SLOPED TO DRAIN.

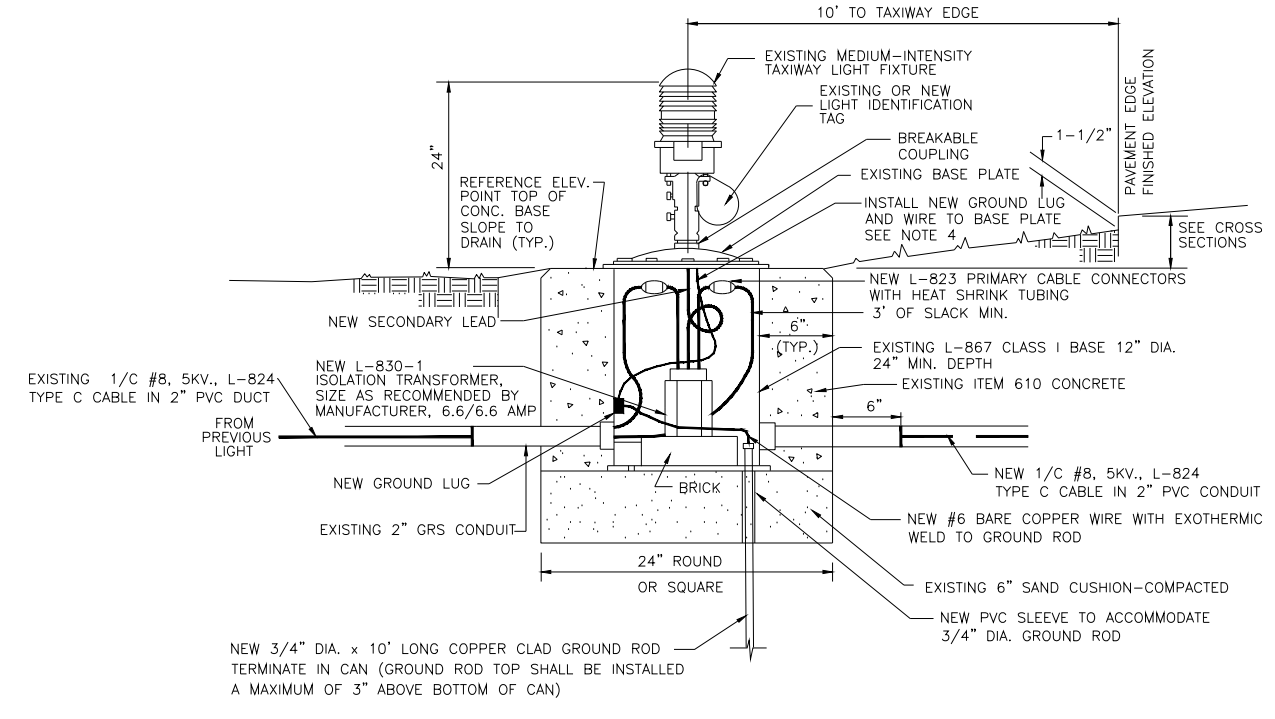


ELEVATED RETROREFLECTIVE MARKER DETAIL
NOT TO SCALE

NOTE: RETROREFLECTIVE MARKER SHALL MET FAA AC 150/5345-39D AIRFIELD LIGHTING EQUIPMENT CERTIFICATION PROGRAM



RELOCATE/REPLACE BASE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT
NOT TO SCALE



RETROFIT BASE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT
NOT TO SCALE

IL CONTRACT: **PA063**
IL LETTING ITEM: **12A**
IL PROJECT: **PWK-4843**
S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS		
NUMBER	BY	DATE

0 1 2
THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

CHICAGO EXECUTIVE AIRPORT
WHEELING/PROSPECT HEIGHTS, ILLINOIS
REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALOMS
ELECTRICAL DETAILS - SHEET 2

© Copyright CMT, Inc.

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

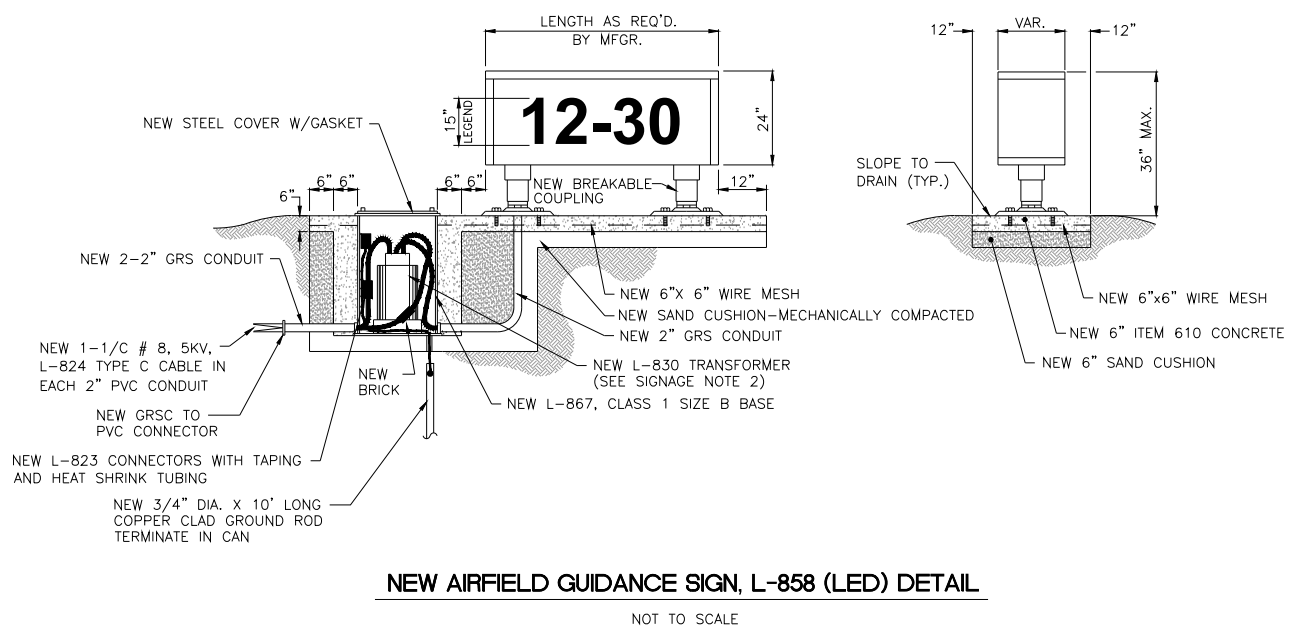
CHICAGO EXECUTIVE AIRPORT

DESIGN BY:	KWS
DRAWN BY:	JRO
CHECKED BY:	KWS
APPROVED BY:	DKP
DATE:	12/10/2021
JOB No:	20029004.00

FINAL

SHEET 25 OF 35 SHEETS

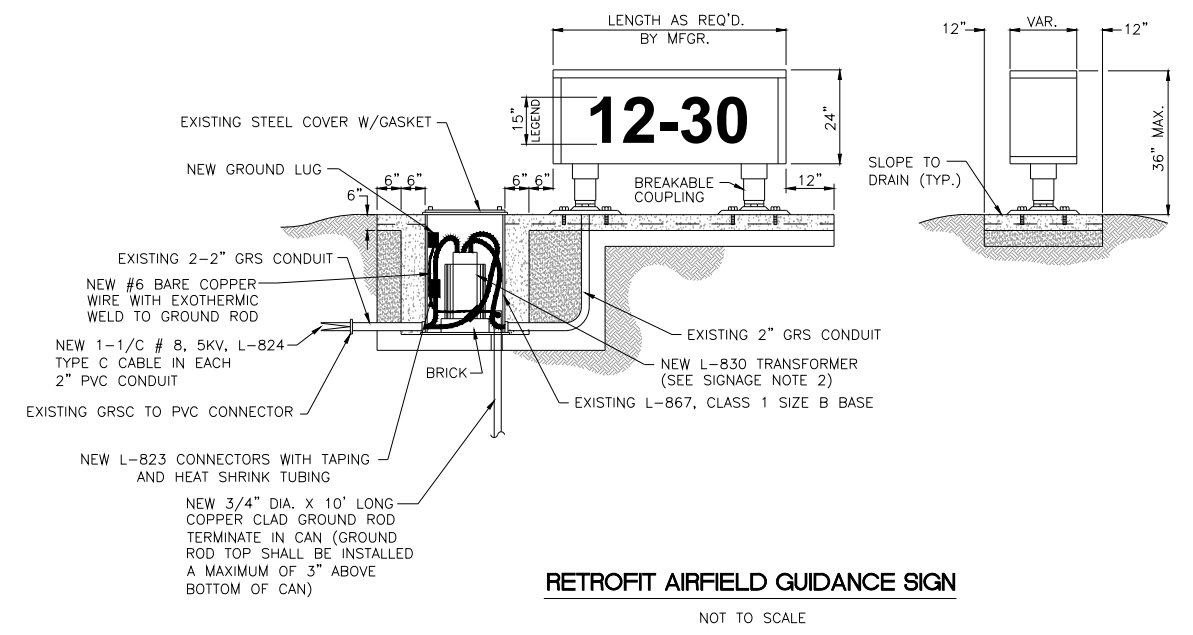
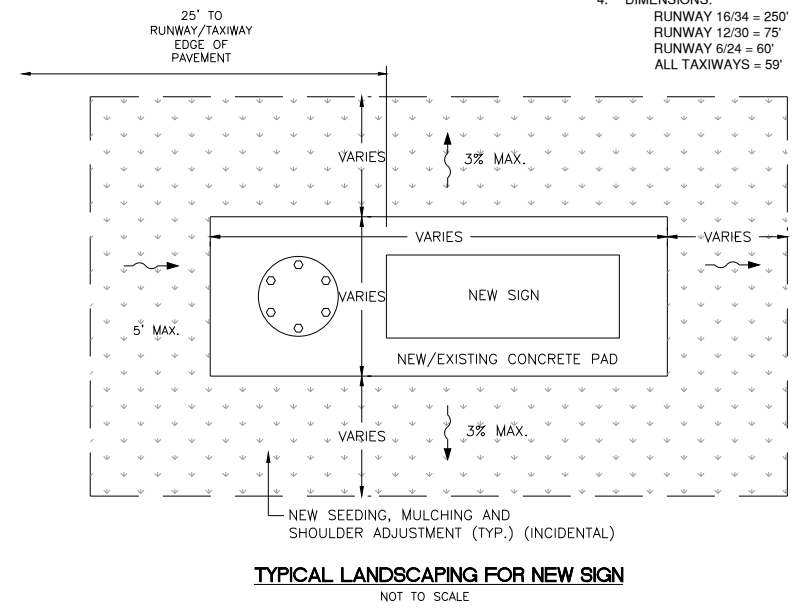
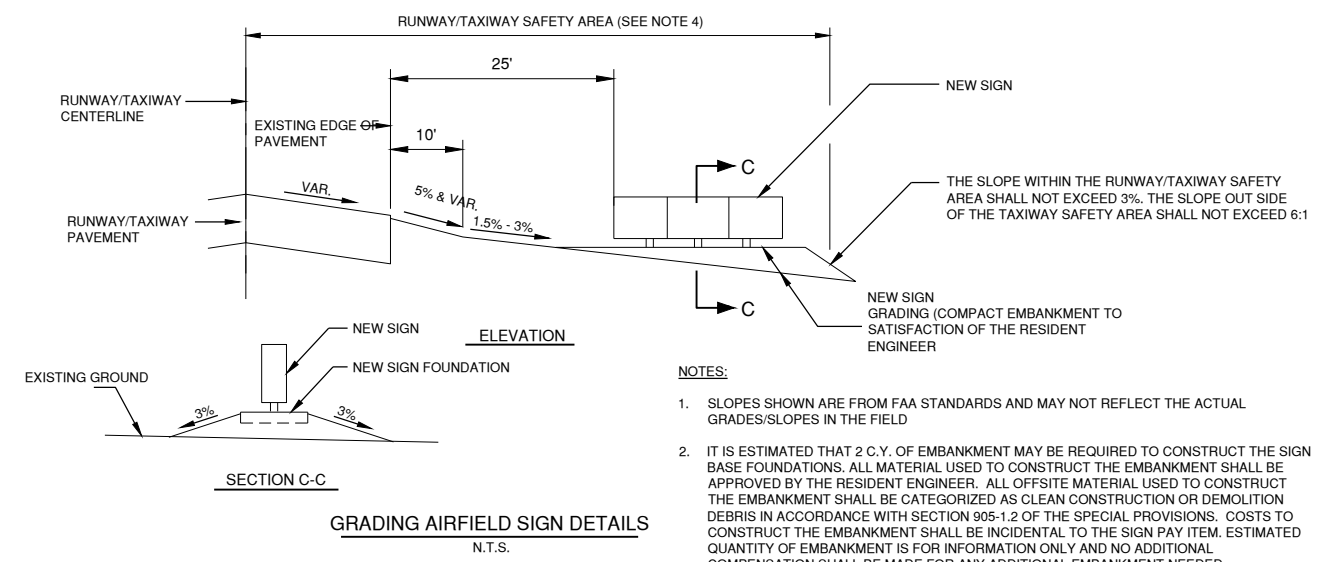
DATE: Thursday, December 9, 2021 9:56:42 AM
 FILE: K:\Chicago\cedep\2022\2004-RehabilitateLighting\Draw\Sheets\27 Electrical\Details - Sheet 5.dwg
 UPDATE BY: Kris Solvetera
 LAYOUT: ELECTRICAL DETAILS - SHEET 3
 REF: DWG: 2022004-RehabilitateLighting\Draw\Sheets\27 Electrical\Details - Sheet 5.dwg
 IMAGE FILES: pwk\new\LOGO_CEA-4-Color-Small.png



- ### SIGNAGE NOTES
- ALL SIGNS ARE 2-SIDED LED SIGNS, CLASS 2 AS MANUFACTURED BY ADB OR APPROVED EQUAL. SIGNS SHALL BE CAPABLE OF BEING CONNECTED TO A 3-STEP OR 5-STEP REGULATOR.
 - TRANSFORMER WATTAGE AS RECOMMENDED BY MANUFACTURER FOR LED SIGNS.
 - LIGHTED SIGNS SHALL BE BASE MOUNTED ONLY.
 - THE NUMBER OF MODULES PER SIGN SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
 - CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS INCLUDING SIGN, COLOR, SIZE AND PROPOSED LEGEND, IN ENOUGH DETAIL TO DETERMINE PROPOSED SPACING AND OTHER INFORMATION REQUIRED BY THE SPECIAL PROVISIONS.
 - CONTRACTOR TO VERIFY PROPOSED SIGN LOCATIONS AND ORIENTATIONS WITH RESIDENT ENGINEER PRIOR TO INSTALLATION.

AIRFIELD SIGNAGE SCHEDULE					
NEW SIGN NUMBER	NEW SIGN FACE	NEW SIGN LEGEND	NEW SIGN TYPE	NEW SIGN LOCATION	NOTES
S2	N S		3 1	RUNWAY 16/34	NEW 4 CHARACTER SIGN
S38	W E		0 3	RUNWAY 6/24	NEW 2 CHARACTER SIGN
S109	N S		2,0 3,2	TAXIWAY Y	NEW 3 CHARACTER SIGN

- ### NEW SIGN TYPE LEGEND
- 0 — BLANK PANEL — BLACK
 - 1 — RUNWAY/TAXIWAY HOLDLINE — WHITE LEGEND ON RED BACKGROUND
 - 2 — LOCATION SIGN — YELLOW LEGEND ON BLACK BACKGROUND
 - 3 — DIRECTION/INFORMATION SIGN — BLACK LEGEND ON YELLOW BACKGROUND
- NOTE**
- GUIDANCE SIGN PANEL SIZE WILL BE BASED ON THE MANUFACTURER'S RECOMMENDATION.



IL CONTRACT: **PA063**
 IL LETTING ITEM: **12A**
 IL PROJECT: **PWK-4843**
 S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS		
NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

CHICAGO EXECUTIVE AIRPORT
 WHEELING/PROSPECT HEIGHTS, ILLINOIS
 REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALOMS
 ELECTRICAL DETAILS - SHEET 3

© Copyright CMT, Inc.
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

DESIGN BY: KWS
 DRAWN BY: JRO
 CHECKED BY: KWS
 APPROVED BY: DKP
 DATE: 12/10/2021
 JOB No: 20029004.00

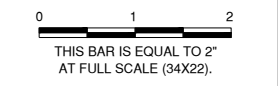
FINAL

SHEET 26 OF 35 SHEETS

IL CONTRACT: **PA063**
 IL LETTING ITEM: **12A**
 IL PROJECT: **PWK-4843**
 S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS		
NUMBER	BY	DATE



CHICAGO EXECUTIVE AIRPORT
WHEELING/PROSPECT HEIGHTS, ILLINOIS
REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALCMS
AIRFIELD ELECTRICAL VAULT IMPROVEMENTS
AND NEW ALCMS

© Copyright CMT, Inc.

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

CHICAGO EXECUTIVE AIRPORT

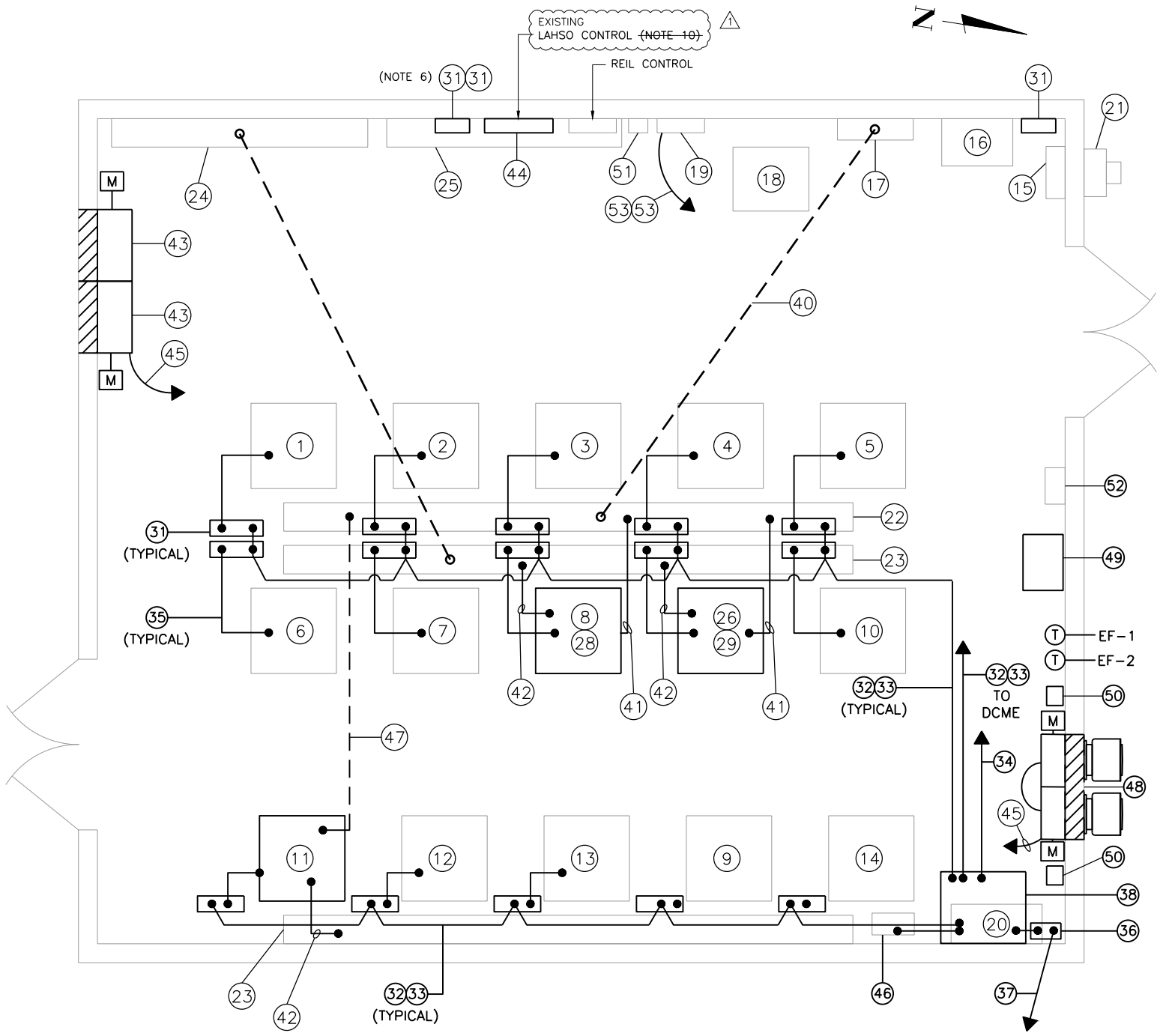
DESIGN BY:	AB
DRAWN BY:	JRO
CHECKED BY:	AB
APPROVED BY:	DKP
DATE:	12/10/2021
JOB No:	20029004.00

FINAL

SHEET 28 OF 35 SHEETS

VAULT NOMENCLATURE

- 1 EXISTING 30KW (5-STEP) REGULATOR FOR RUNWAY 16/34.
- 2 EXISTING 20KW (5-STEP) REGULATOR FOR RUNWAY 6/24.
- 3 EXISTING 10KW (3-STEP) REGULATOR FOR RUNWAY 12/30
- 4 EXISTING 10KW (3-STEP) REGULATOR FOR TAXIWAY G,D AND 34 HOLD APRON.
- 5 EXISTING 10KW (3-STEP) REGULATOR FOR RUNWAY 16/34 RDR.
- 6 EXISTING 15KW (3-STEP) REGULATOR FOR RUNWAY 16/34 RGL.
- 7 EXISTING 30 KW (5-STEP) REGULATOR (SPARE).
- 8 EXISTING 30 KW (3-STEP) REGULATOR FOR A, B, D, E, F, Y AND L4 TO BE REMOVED (SEE NOTE 7).
- 9 EXISTING 30KW (5-STEP) SPARE.
- 10 EXISTING 20KW (5-STEP) REGULATOR FOR RUNWAY 16 APPROACH.
- 11 EXISTING 30 KW (3-STEP) REGULATOR FOR LIMA TO BE REPLACED WITH NEW 30KW REGULATOR.
- 12 EXISTING 30KW (3-STEP) REGULATOR FOR TAXIWAY K.
- 13 EXISTING 10KW (3-STEP) REGULATOR FOR TAXIWAY C.
- 14 EXISTING 30kW (3-STEP) FUTURE AIRFIELD LIGHTING REGULATOR.
- 15 EXISTING MAIN UTILITY SERVICE CIRCUIT BREAKER DISCONNECT. 800A, 480V, 3-POLE.
- 16 EXISTING AUTOMATIC TRANSFER SWITCH. 800A, 480V, 3-POLE. PROVIDE ALCMS INTERFACE.
- 17 EXISTING HIGH VOLTAGE POWER DISTRIBUTION PANEL. 480V, 3-PHASE WITH 800AMP MAIN CIRCUIT BREAKER (SEE NOTE 3).
- 18 EXISTING 150KVA, 480V-280Y/120V, 3ø, 4-WIRE TRANSFORMER.
- 19 EXISTING LOW VOLTAGE LIGHTING PANEL. 208Y/120V, 3-PHASE WITH 400AMP MAIN CIRCUIT BREAKER (SEE NOTE 3).
- 20 EXISTING PLC CONTROL CABINET TO BE REMOVED.
- 21 EXISTING 800AMP CT CABINET.
- 22 EXISTING 12"x12"x12' LONG LOW VOLTAGE WIREWAY.
- 23 EXISTING 12"x12"x12' LONG HIGH VOLTAGE WIREWAY.
- 24 EXISTING 12"x12"x9' LONG HIGH VOLTAGE WIREWAY (SEE NOTE 8).
- 25 EXISTING 12"x12"x9' LONG LOW VOLTAGE WIREWAY.
- 26 EXISTING 10KW (3-STEP) REGULATOR FOR HFC APRON TO BE REMOVED (SEE NOTE 7).
- 27 INSTALL NEW 2-1/C #8 5KV, L-824 CABLES IN EXISTING CONDUIT FROM NEW 15KW ABEF REGULATOR TO HIGH VOLTAGE WIREWAY, INSTALL L-823 CONNECTORS.
- 28 NEW 15KW, 480V (3-STEP) L-829 FERRORESONANT REGULATOR FOR TAXIWAY A, B, E, F CIRCUIT.
- 29 NEW 15KW, 480V (3-STEP) L-829 FERRORESONANT REGULATOR FOR TAXIWAY D, Y, Z CIRCUIT.
- 30 CONNECT NEW REGULATOR TO POWER DISTRIBUTION PANEL.
- 31 NEW DISTRIBUTED CONTROL AND MONITORING EQUIPMENT (DCME) MOUNTED ON EXISTING EQUIPMENT PLATE OR WALL. TYPICAL FOR EACH CCR (TOTAL OF 15), A.T.S., LAHSO AND REIL CONTROLLER (TOTAL OF 3)(SEE NOTE 9).
- 32 NEW (2) #24 AWG, SHIELDED, TWO TWISTED PAIR, BELDEN 9842 OR AS REQUIRED BY ALCMS MANUFACTURER IN 1" GRS CONDUIT (TYPICAL FOR ALL DCME UNITS).
- 33 NEW 2 #10 THWN, 1 #10 GND. FOR DCME UNIT UPS POWER OR AS REQUIRED BY ALCMS MANUFACTURER IN 1" GRS CONDUIT (TYPICAL FOR ALL DCME).
- 34 NEW 2 #12 THWN, 1 #12 GND. IN 1" GRS CONDUIT TO LOW VOLTAGE LIGHTING PANEL (SEE NOTE 3).
- 35 NEW 14 #18 AWG OR AS REQUIRED BY ALCMS IN 3/4" FLEXIBLE CONDUIT (TYPICAL FOR ALL CCR'S).
- 36 NEW FIBER OPTIC PATCH PANEL AND FIBER OPTIC JUMPER CABLES AS REQUIRED BY ALCMS MANUFACTURER.
- 37 NEW 1-12 STRAND MULTI-MODE FIBER OPTIC CABLE IN EXISTING CONDUIT TO ATCT.
- 38 NEW ALCMS RACK (SEE NOTE 2).
- 40 NEW 2 #2, 4 #4 THWN, 3 #6 GND. IN EXISTING CONDUIT.
- 41 NEW 2 #4 THWN, 1 #6 IN FLEXIBLE CONDUIT.
- 42 NEW 2 #1/C #8, 5KV L-824 AIRFIELD LIGHTING CABLE IN FLEXIBLE CONDUIT. (SEE NOTE 9).
- 43 REMOVE EXISTING LOUVERS, MOTORIZED DAMPERS AND FILTERS AND REPLACE WITH NEW STATIONARY LOUVERS SL-1 AND SL-2 WITH NEW MOTORIZED DAMPERS AND FILTERS. FURNISH AND INSTALL NEW ALUMINUM SLEEVE TO MOUNT MOTORIZED DAMPERS AND FILTERS IN BEHIND LOUVER. SEE STATIONARY LOUVER SCHEDULE SHEET 29.
- 44 EXISTING LAHSO CONTROLLER
- 45 NEW 2 #10 THWN, 1 #10 GND. IN 1" CONDUIT TO LIGHTING PANEL.
- 46 EXISTING L-854 RADIO CONTROLLER, PROVIDE ALCMS INTERFACE.
- 47 NEW 2 #2 THWN, 1 #6 GND. IN EXISTING CONDUIT.
- 48 REMOVE EXISTING LOUVER, PLENUM AND EXHAUST FAN. INSTALL NEW ANGLE IRON FRAME AND NEW EXHAUST FANS EF-1 AND EF-2. SEE EXHAUST FAN SCHEDULE SHEET 29. SEE EXHAUST FAN MOUNTING DETAIL SHEET 29.
- 49 REUSE EXISTING INTERLOCK CONTROL BOX AND CONDUIT TO WIRE NEW LINE VOLTAGE THERMOSTAT CONTROL FROM EF-1 TO SL-1 AND SEPARATE THERMOSTAT CONTROL FROM EF-2 TO SL-2.
- 50 MOUNT DISCONNECT AND SPEED CONTROL ADJACENT TO NEW EXHAUST FAN
- 51 EXISTING TOWER ROAD STREET LIGHTS SWITCH TO REMAIN.
- 52 EXISTING TYCO FIRE ALARM AND VIDEO SURVEILLANCE EQUIPMENT TO REMAIN.
- 53 NEW 2 #12 THWN, 1 #12 GND. IN 1" CONDUIT TO EXHAUST FAN.



AIRFIELD ELECT. VAULT PLAN VIEW
 NOT TO SCALE

NOTES:

1. ALL PROPOSED WORK OR ITEMS BEING MODIFIED ARE SHOWN IN BOLD. ALL OTHER ITEMS SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.
2. PROPOSED ALCMS RACK SHALL BE SUPPLIED WITH WHEELS. NEW CONTROL SYSTEM SHALL BE OPERATIONAL AND TESTED PRIOR TO THE REMOVAL OF EXISTING PLC CABINET. PROVIDE J-BOX, FLEX CONDUIT AND SUFFICIENT CABLE SLACK REQUIRED FOR ALCMS RACK TO BE OPERATIONAL.
3. SEE PANEL SCHEDULE FOR REGULATOR, ALCMS AND HVAC CIRCUITS.
4. INSTALL POWER AND CONTROL WIRES BETWEEN INTERFACE CONTROL PANEL AND A.T.S., BEACON CONTROL, LAHSO CONTROL, L-854 RADIO CONTROLLER AND REIL CONTROLLER PER ALCMS MANUFACTURER.
5. INSTALL AND WIRE PROPOSED DCME FOR FUTURE REGULATORS.
6. RELOCATE EXISTING WALL MOUNTED TRANSFORMER BELOW LAHSO CONTROLLER. MOUNT (2) ACE-II UNITS ON TOP OF EACH OTHER BETWEEN LAHSO AND REIL CONTROLLERS.
7. REMOVE EXISTING REGULATOR AND INSTALL PROPOSED REGULATOR. INSTALL PROPOSED POWER AND CONTROL WIRES IN FLEXIBLE CONDUIT. MATCH EXISTING CONDITIONS.
8. INSTALL L-823 CONNECTORS IN HIGH VOLTAGE WIREWAY.
9. RELOCATE EXISTING INDICATOR UNIT ON EXISTING PANEL TO PROVIDE SPACE FOR NEW DCME UNIT.

DATE: Thursday, December 9, 2021 9:56:54 AM
 FILE: K:\Chicago\20029004 - Rehabilitation\Lighting\PH1\Draw\Sheets\20029004 - PWK-4843 - Vault.dwg
 UPDATE BY: Kris Solvatera
 LAYOUT: VAULT MODIFICATIONS - AIRFIELD LIGHTING
 IMAGE FILES: DSC00769.JPG
 DSC00774.JPG
 DSC00777.JPG
 PWKnewLOC_CEA-4-Color-Small (2).jpg

DATE: Thursday, December 9, 2021 9:56:56 AM
 FILE: K:\Chicago\2020\202004_Renovation\Lighting\Panel\Draw\Sheet\202004-PWK-4843_Vault.dwg
 UPDATER: BY: Kri: Solvatero
 LAYOUT: PANEL SCHEDULE
 XREF DWG: \PanelSchedule.dwg
 IMAGE FILES: DSC0072A.JPG DSC0077A.JPG
 D:\new\LOC_CEA-4-Color-Small (2).jpg

PANELBOARD SCHEDULE																	
PANEL DESIGNATION: PDP						BOND NEUTRAL AND GROUND BAR: NO						POLE: 30					
LOCATION: VAULT						NEUTRAL BUS RATING:						SHORT CIRCUIT RATING:					
MFR & TYPE: SQUARE D						SERVICE ENTRANCE RATED: NO						SERIES OR FULLY RATED: SERIES					
						TVSS & DISCONNECT REQUIRED: NO											
VOLTS: 480/277V						MOUNTING: SURFACE						BUS RATING (AMPS): 800					
PHASE: 3						ENCL RATING: NEMA 1						BUS: COPPER					
WIRE: 3												MAIN CIRCUIT BREAKER: AMP/POLE 800					
CKT NO.	LOAD	BREAKER SIZE	LOAD AMPS	USAGE FACTOR	PHASE AMPS (USAGE)			POLE NO.		PHASE AMPS (USAGE)			USAGE FACTOR	LOAD AMPS	BREAKER SIZE	LOAD	CKT NO.
					A	B	C	1	2	A	B	C					
1	TRANSFORMER	225A/3P	10.2	0.5	5.1			1	2	7.5			0.5	15	100A/2P	RWY 16/34	2
3			10.2	0.5		5.1		3	4		7.5		0.5	15			4
5			10.2	0.5		5.1		5	6		7.5		0.5	15			6
7	TWY LIMA	100A/2P	6.8	0.5	3.4			7	8	6			0.5	12	30A/2P	RWY 12/30	8
9			6.8	0.5		3.4		9	10		6		0.5	12			10
11	TWY DYZ	60A/2P	6.8	0.5			3.4	11	12			6	0.5	12	50A/2P	RGL	12
13			4.2	0.5	2.1			13	14	10			0.5	20			14
15	TWY AEBF	100A/2P	4.2	0.5			2.1	15	16			10	0.5	20	100A/2P	STAND BY	16
17			4.2	0.5			2.1	17	18		10		0.5	20			18
19	UNIT HEATER	50A/3P	27	0.5	13.5			19	20	10			0.5	20	50A/3P	UNIT HEATER	20
21			27	0.5		13.5		21	22		10		0.5	20			22
23			27	0.5		13.5		23	24		10		0.5	20			24
25	STREET LIGHTS	20A/3P	3.4	0.5	1.7			25	26	10			0.5	20	60A/2P	RWY 6/24	26
27			3.4	0.5		1.7		27	28		10		0.5	20			28
29			3.4	0.5		1.7		29	30		10		0.5	20			30
31	KILO	100A/2P						31	32					30A/2P	RDR	32	
33								33	34							34	
35	REIL 12	20A/2P						35	36					20A/2P	REIL 16	36	
37								37	38							38	
39	REIL 30	20A/2P						39	40					20A/2P	REIL 34	40	
41								41	42							42	
43	TWY C	30A/2P						43	44					20A/2P	LAHSO STEP DOWN TRANSFORMER	44	
45								45	46							46	
SECTION TOTAL:					25.8	25.8	25.8			43.5	43.5	43.5					
					PHASE TOTAL AMPS:			TOTAL USAGE LOAD:									
										69.3	69.3	69.3			57588.3	VA	
					PHASE TOTAL VA:												
										19196.1	19196.1	19196.1					

PANELBOARD SCHEDULE																	
PANEL DESIGNATION: LP						BOND NEUTRAL AND GROUND BAR: NO						POLE: 30					
LOCATION: VAULT						NEUTRAL BUS RATING:						SHORT CIRCUIT RATING:					
MFR & TYPE: SQUARE D						SERVICE ENTRANCE RATED: NO						SERIES OR FULLY RATED: SERIES					
						TVSS & DISCONNECT REQUIRED: NO											
VOLTS: 208Y/120V						MOUNTING: SURFACE						BUS RATING (AMPS): 400					
PHASE: 3						ENCL RATING: NEMA 1						BUS: COPPER					
WIRE: 4												MAIN CIRCUIT BREAKER: AMP/POLE 400					
CKT NO.	LOAD	BREAKER SIZE	LOAD AMPS	USAGE FACTOR	PHASE AMPS (USAGE)			POLE NO.		PHASE AMPS (USAGE)			USAGE FACTOR	LOAD AMPS	BREAKER SIZE	LOAD	CKT NO.
					A	B	C	1	2	A	B	C					
1	REGULATOR TWY GD , 34 HOLD	20A/2P	0	0	0			1	2	0			0	0	20A/2P	EXHAUST FAN	2
3			0	0		0		3	4		0		0	0			4
5			0	0		0		5	6		0		0	0			6
7	GEN- SET-PANEL	100A/2P	0	0	0			7	8	0			0	0	20A/1P	LOUVERS - FAN	8
9			0	0		0		9	10		0		0	0			10
11	OUTLET - WEST	20A/1P	0	0			0	11	12			0	0	20A/1P	OUTSIDE LIGHTS	12	
13	OUTLET - SOUTH	20A/1P	0	0			0	13	14	0		0	0	20A/1P	VAULT LIGHTS	14	
15	ALCMS POWER	20A/1P	0	0			0	15	16	0		0	0	20A/1P	BEACON CONTROLLER	16	
17	RADIO CONTROL UNIT	20A/1P	0	0			0	17	18			0	0	20A/1P	SPARE	18	
19	SPARE	20A/1P	0	0			0	19	20			0	0	60A/2P	TRAILER TEMP SERVICE	20	
21	ST LIGHTING CONTROL	20A/1P	0	0			0	21	22			0	0	60A/2P		22	
23	LAHSO CONTROL	20A/1P	0	0			0	23	24			0	0	60A/2P	RWY 6/24	24	
25	BLANK	20A/1P	0	0			0	25	26	0		0	0	20A/2P	LAHSO	26	
27	REIL CONTROL	15A/1P	0	0			0	27	28			0	0	20A/2P		28	
29	EXHAUST FAN	20A/2P					0	29	30			0	0	15A/1P	DAMPER MOTORS	30	
SECTION TOTAL:					0	0	0			0	0	0					
					PHASE TOTAL AMPS:			TOTAL USAGE LOAD:									
										0	0	0			0	VA	
					PHASE TOTAL VA:												
										0	0	0					

NOTES:

POWER DISTRIBUTION NOTES

- CONNECT NEW TAXIWAY LIMA REGULATOR CABLES TO EXISTING CIRCUIT BREAKER.
- REPLACE EXISTING 60A SPARE CIRCUIT BREAKER WITH NEW 50A, 2-POLE BREAKER FOR TAXIWAY D,Y,Z REGULATOR.
- REPLACE EXISTING 100A TAXIWAY A,B,E,F CIRCUIT BREAKER WITH NEW 50A, 2-POLE BREAKER FOR TAXIWAY A,B,E,F REGULATOR.

LIGHTING PANEL NOTES

- REPLACE EXISTING 20A PLC-POWER CIRCUIT BREAKER WITH NEW 20A, 1-POLE BREAKER FOR ALCMS.
- REPLACE HFC CIRCUIT BREAKER WITH 20A, 2-POLE BREAKER FOR EXHAUST FAN.

EXHAUST FAN SCHEDULE

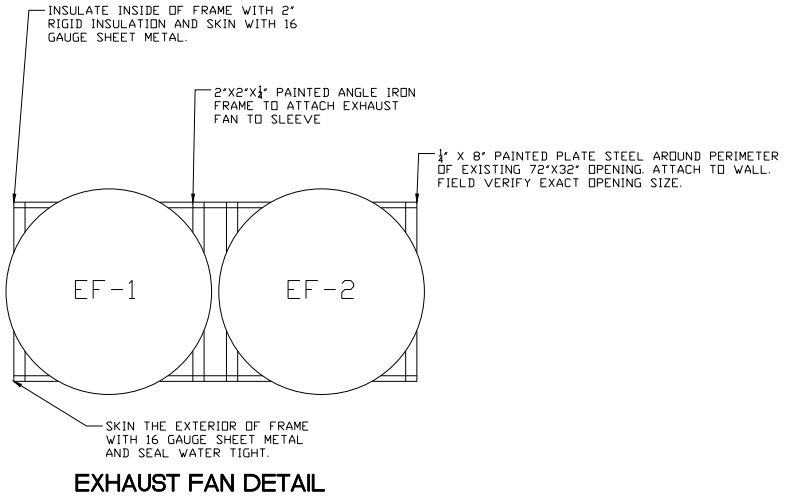
MARK	EF-1	EF-2
SERVICE	VAULT	VAULT
LOCATION	SIDEWALL	SIDEWALL
MANUFACTURER	GREENHECK	GREENHECK
MODEL	CUE-180-VG	CUE-180-VG
TYPE	SIDEWALL	SIDEWALL
CFM	4000	4000
S.P.	0.75"	0.75"
FAN RPM	1239	1239
MOTOR	HP	2
	VOLT	208
	PHASE	1
	RPM	1325
ACCESSORIES	SEE NOTES 1 THRU 6	SEE NOTES 1 THRU 6
REMARKS	INTERLOCK WITH SL-1	INTERLOCK WITH SL-2

- NOTES:
- WEATHER TIGHT DISCONNECT SWITCH
 - ALUMINUM BIRDSCREEN
 - LOW LEAK INSULATED 115V MOTORIZED DAMPER
 - SPEED CONTROL
 - LINE VOLTAGE COOLING THERMOSTAT
 - MAKE/MODEL NUMBER IS SHOWN FOR INFORMATION ONLY. APPROVED EQUAL EQUIPMENT SHALL BE ACCEPTABLE.

STATIONARY LOUVER SCHEDULE

MARK	SL-1	SL-2
SERVICE	VAULT	VAULT
TYPE	DRAINABLE	DRAINABLE
MANUFACTURER	GREENHECK	GREENHECK
MODEL	ESD-635	ESD-635
CFM	4000	4000
MAX. Δ S.P. (IN)	0.1	0.1
NOM. SIZE	WIDTH	36
	HEIGHT	32
	DEPTH	6"
AREA (SQ. FT.)	NET	7.50
	FREE	3.845
FRAME	CHANNEL	CHANNEL
MATERIAL	ALUMINUM	ALUMINUM
FINISH	KYNAR	KYNAR
ACCESSORIES	SEE NOTES 1 THRU 7	SEE NOTES 1 THRU 7
REMARKS	INTERLOCK WITH EF-1	INTERLOCK WITH EF-2

- NOTES:
- COLOR TO BE SELECTED BY OWNER
 - BIRD SCREEN
 - EXTENDED SILL
 - 115V LOW LEAK INSULATED MOTORIZED DAMPER
 - WASHABLE FILTER
 - FIELD VERIFY LOUVER SIZE
 - MAKE/MODEL NUMBER IS SHOWN FOR INFORMATION ONLY. APPROVED EQUAL EQUIPMENT SHALL BE ACCEPTABLE.

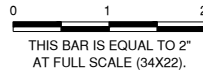


IL CONTRACT: **PA063**
 IL LETTING ITEM: **12A**
 IL PROJECT: **PWK-4843**
 S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS

NUMBER	BY	DATE



CHICAGO EXECUTIVE AIRPORT
 WHEELING/PROSPECT HEIGHTS, ILLINOIS
 REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALCMS

PANEL SCHEDULE

© Copyright CMT, Inc.

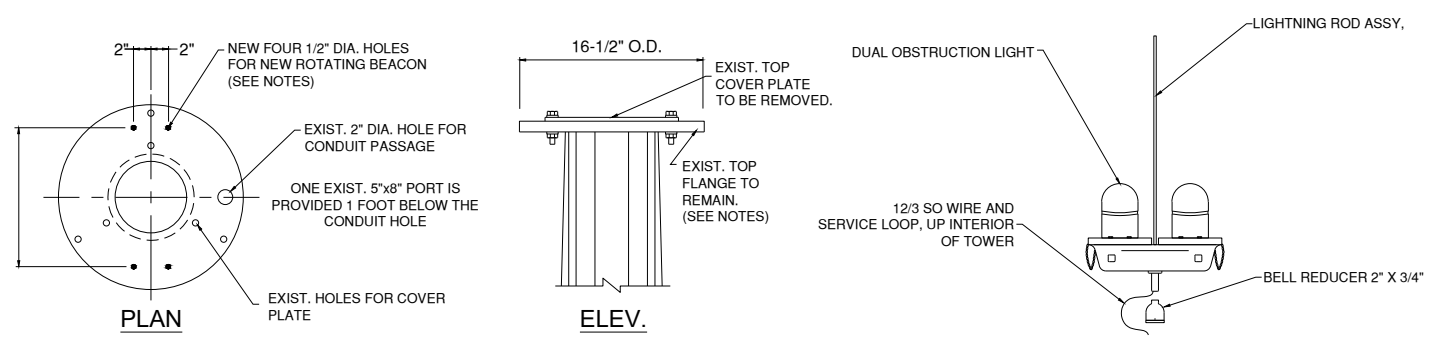
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

CHICAGO EXECUTIVE AIRPORT

DESIGN BY:	AB
DRAWN BY:	JRO
CHECKED BY:	AB
APPROVED BY:	DKP
DATE:	12/10/2021
JOB No:	20029004.00

FINAL

DATE: Thursday, December 9, 2021 9:57:20 AM
 FILE: K:\ChicagoExecAirg\202004_RehabilitateAirfieldLighting\Plan\Draw\Sheet03 BEACON - LOCATION PLAN.dwg
 UPDATE BY: Kris Salvatera
 LAYOUT: BEACON - LOCATION PLAN
 IMAGE FILES: DSC00789.JPG
 DSC00777.JPG
 DSC00777.JPG
 ptk\new\LOGO_CEA-4-Color_Small (2).jpg
 REF: DWG: 04-01-2021 - Rehabilitate Airfield Lighting.dwg



EXISTING TOP FLANGE DETAIL
NOT TO SCALE

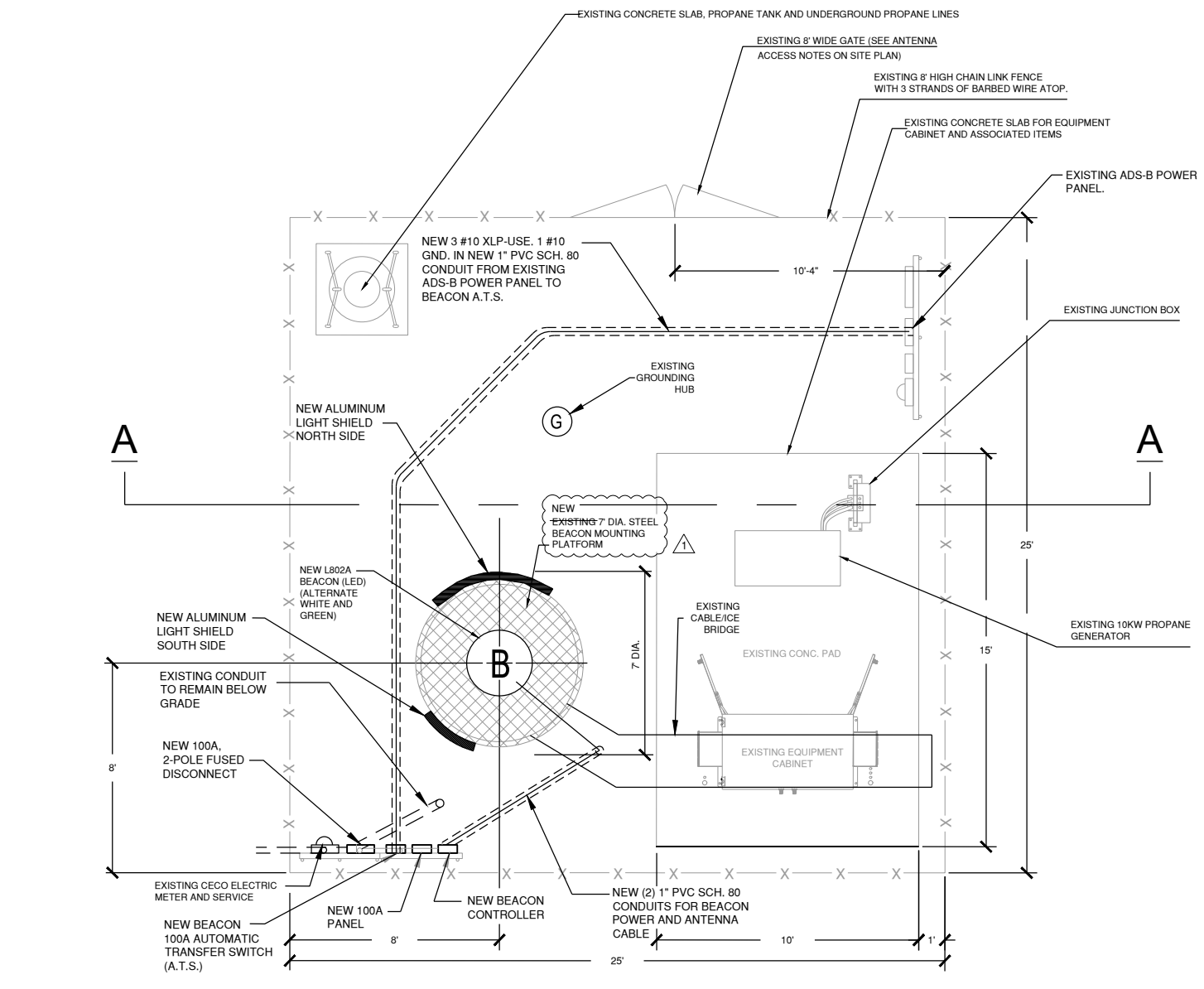
THE EXISTING TOP FLANGE BOLT PATTERN SHALL BE MODIFIED PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR SHALL VERIFY CORRECT BOLT PATTERN AND REQUIREMENTS FOR NEW BEACON.

EXISTING FAA OBSTRUCTION LIGHT MOUNT DETAIL (TO BE RELOCATED)
NOT TO SCALE

1. THE RELOCATION OF THE EXISTING FAA OBSTRUCTION LIGHTS SHALL BE INCIDENTAL TO THE NEW BEACON PAY ITEM.
2. OBSTRUCTION LIGHT SHALL BE ON 24 HOURS (DAY AND NIGHT).

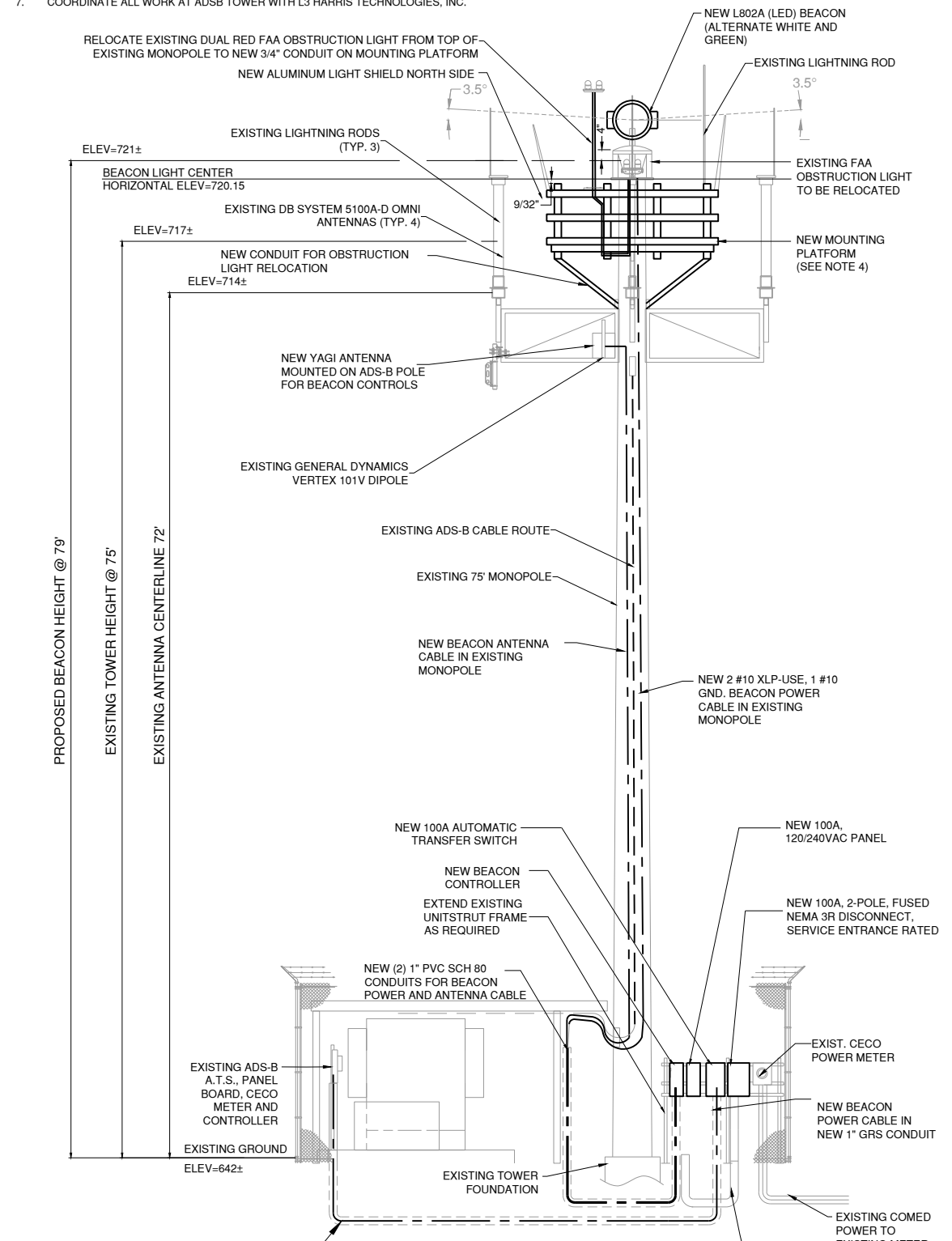
NOTES:

1. ANY EXISTING UTILITY, CABLE, GROUNDING, AND CONDUIT LOCATIONS SHALL BE LOCATED BY THE CONTRACTOR PRIOR TO NEW INSTALLATION. LOCATIONS NOT SHOWN FOR CLARITY.
2. ALL EXISTING UTILITY VERIFICATION AND NEW UNDERGROUND INSTALLATION SHALL BE COMPLETED BY HAND DIGGING TRENCHES.
3. NEW L802A BEACON (LED) SHALL BE HALI-BRITE L802AL216 CIVILIAN VERSION, 120 VAC, 60 HZ, CLASS II, OR APPROVED EQUAL.
4. THE MOUNTING PLATFORM SHALL BE HALI-BRITE 440C98-1 7 FOOT DIA. ROUND BEACON BASKET OR APPROVED EQUAL. ALL PLATFORM SUPPORTS AND INSTALLATION SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
5. THE NEW LIGHT SHIELDS SHALL PROTECT GLARE FROM THE NEW BEACON TO THE FAA AIR TRAFFIC CONTROL TOWER AND THE RESIDENCE TO THE NORTH OF HINTZ ROAD AS SHOWN ON SHEET 3, SEQUENCE OF CONSTRUCTION. THE LIGHT SHIELDS SHALL BE VARIOUS SIZED ALUMINUM PANELS OR APPROVED EQUAL AND SHALL BE INSTALLED TO THE PLATFORM TO THE SATISFACTION OF THE AIRPORT AND ENGINEER. AFTER INSTALLATION, THE CONTRACTOR MAY NEED TO ADJUST THE SHIELDS UP TO TWO TIMES TO THE SATISFACTION OF THE FAA TOWER CHIEF, THE AIRPORT AND THE ENGINEER.
6. THE BEACON LIGHT BEAM ANGLE SHALL BE SET TO 3.5 DEGREES ABOVE HORIZONTAL OR AS DETERMINED BY THE AIRPORT.
7. COORDINATE ALL WORK AT ADSB TOWER WITH L3 HARRIS TECHNOLOGIES, INC.



ADS-B ANTENNA SITE
NOT TO SCALE

ALL NEW ITEMS AND ASSOCIATED WORK SHOWN ARE INCIDENTAL TO AS101510, AIRPORT ROTATING BEACON.



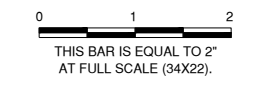
ADS-B ANTENNA ELEVATION A-A
NOT TO SCALE

ALL NEW ITEMS AND ASSOCIATED WORK SHOWN ARE INCIDENTAL TO AS101510, AIRPORT ROTATING BEACON.

IL CONTRACT: **PA063**
 IL LETTING ITEM: **12A**
 IL PROJECT: **PWK-4843**
 S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS		
NUMBER	BY	DATE



CHICAGO EXECUTIVE AIRPORT
WHEELING/PROSPECT HEIGHTS, ILLINOIS
REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALOMS
ADDITIVE ALTERNATE #1
BEACON - LOCATION PLAN

© Copyright CMT, Inc.

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

CHICAGO EXECUTIVE AIRPORT

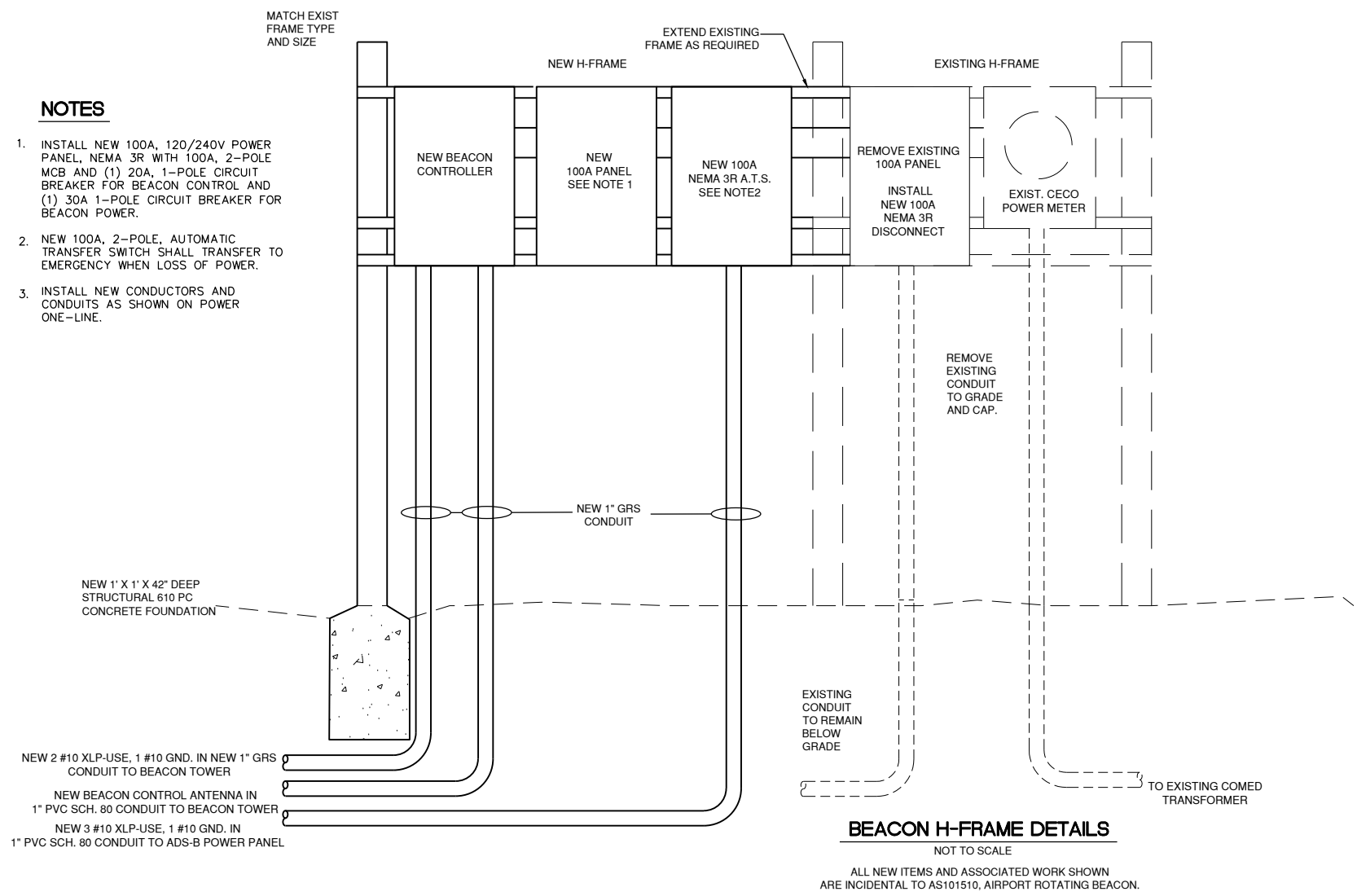
DESIGN BY:	AB
DRAWN BY:	JRO
CHECKED BY:	AB
APPROVED BY:	DKP
DATE:	12/10/2021
JOB No:	20029004.00

FINAL

DATE: Thursday, December 9, 2021 9:57:24 AM
 FILE: K:\Chicago\Electrical\202004 - Rehabilitation\Lighting\Draw\Sheet04 - BEACON - ELECTRICAL DETAILS.dwg
 UPDATE BY: Kris Salvatera
 LAYOUT: BEACON - ELECTRICAL DETAILS
 IMAGE FILES: DSC00789.JPG
 DSC00777.JPG
 psktnewLOGO_CFA-4-Color_Small (2).jpg
 XREF DWG: 04 - BEACON - electrical field lighting.dwg

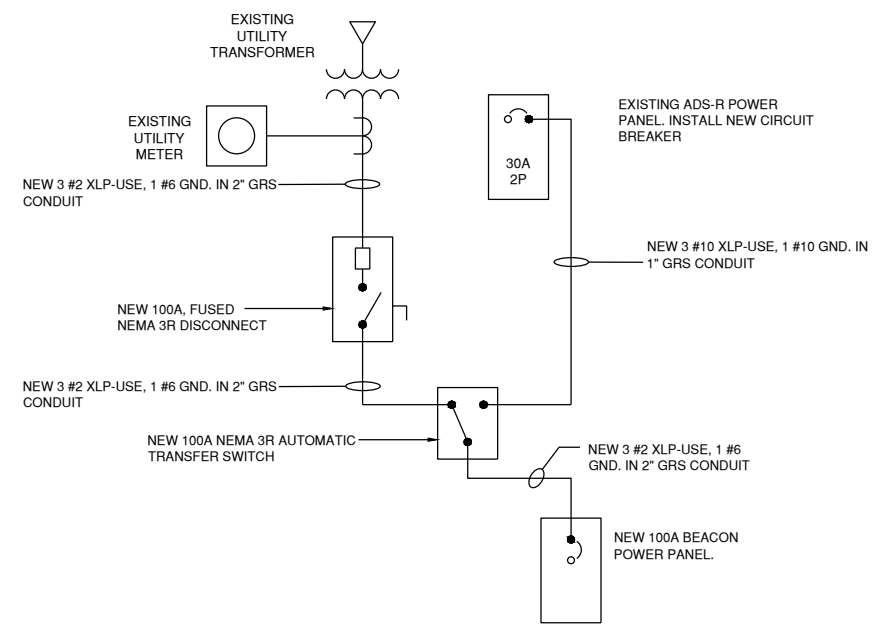
NOTES

1. INSTALL NEW 100A, 120/240V POWER PANEL, NEMA 3R WITH 100A, 2-POLE MCB AND (1) 20A, 1-POLE CIRCUIT BREAKER FOR BEACON CONTROL AND (1) 30A 1-POLE CIRCUIT BREAKER FOR BEACON POWER.
2. NEW 100A, 2-POLE, AUTOMATIC TRANSFER SWITCH SHALL TRANSFER TO EMERGENCY WHEN LOSS OF POWER.
3. INSTALL NEW CONDUCTORS AND CONDUITS AS SHOWN ON POWER ONE-LINE.

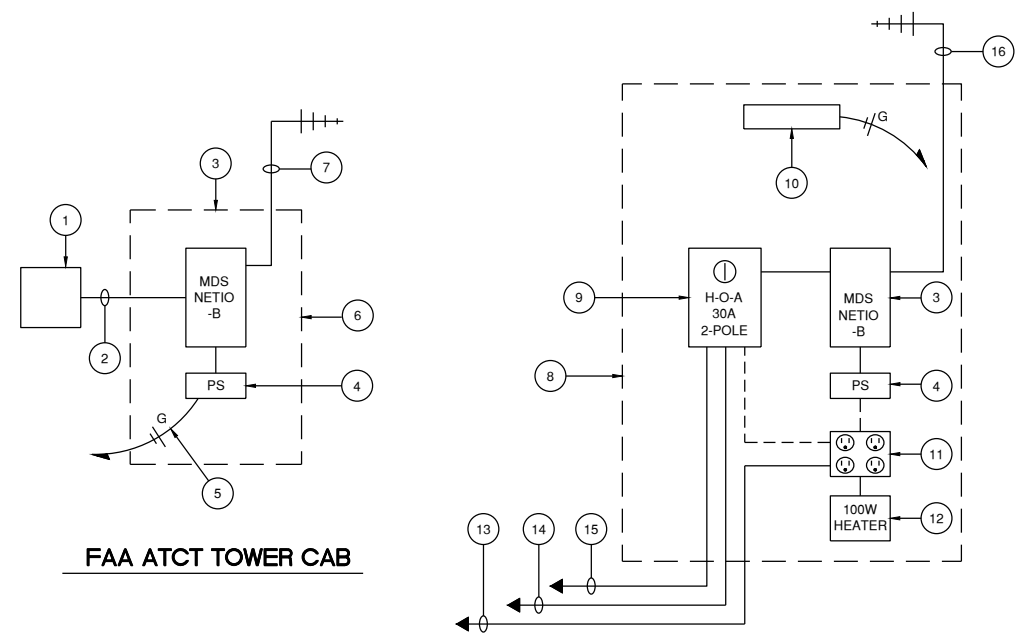


BEACON H-FRAME DETAILS
NOT TO SCALE

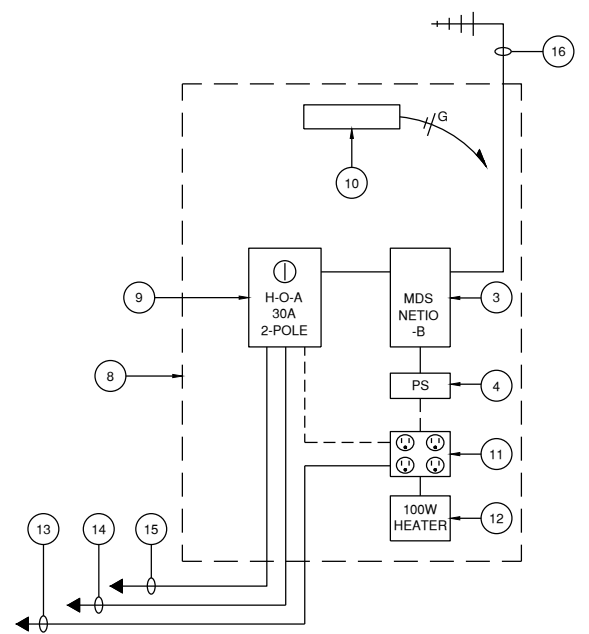
ALL NEW ITEMS AND ASSOCIATED WORK SHOWN ARE INCIDENTAL TO AS101510, AIRPORT ROTATING BEACON.



BEACON POWER ONE-LINE



BEACON CONTROL DIAGRAM



ADS-B/BEACON SITE

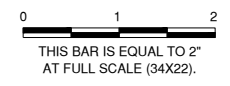
EQUIPMENT CONDUIT NOMENCLATURE

- 1 NEW DCME (ALCMS) CONTROL FOR BEACON.
- 2 NEW 2 #12 THWN CONTROLS FROM DCME TO BEACON CONTROLLER.
- 3 NEW FCC LICENSED WIRELESS TRANSMITTER/RECEIVER WITH ANALOG AND DIGITAL I/O. CONTRACTOR SHALL OBTAIN LICENSE AND DESIGN EQUIPMENT..
- 4 NEW 24V DC POWER SUPPLY OR AS REQUIRED FOR WIRELESS TRANSMITTER/RECEIVER.
- 5 NEW 2 #12 THWN, 1 #12 GND. IN 3/4" CONDUIT, 120 VAC POWER FROM EXISTING CIRCUIT UNDER CABINET.
- 6 NEW 18"Hx12"Wx12"D NEMA 1 ENCLOSURE, SIZED FOR TRANSMITTER AND POWER SUPPLY, HOFFMAN OR EQUAL. INSTALL ENCLOSURE INSIDE CABINET UNDER L-890 TOUCHSCREEN.
- 7 NEW ANTENNA CABLE AND YAGI ANTENNA MOUNTED ON TOP OF FAA ATCT TOWER CAB. ANTENNA CABLE AND ANTENNA SHALL BE AS RECOMMENDED BY WIRELESS EQUIPMENT MANUFACTURER.
- 8 NEW 36"Hx24"Wx12"D NEMA 3R ENCLOSURE SIZED TO ACCOMMODATE RECEIVER, POWER SUPPLY, CONTRACTOR AND HEATER, HOFFMAN OR EQUAL.
- 9 NEW 30A, 2-POLE, 240V LIGHTING CONTRACTOR WITH 120 VAC COIL AND 3-POSITION HAND-OFF-AUTO SELECTOR SWITCH MOUNTED ON ENCLOSURE DOOR.
- 10 NEW ENCLOSURE LIGHT
- 11 NEW QUAD RECEPTACLE
- 12 NEW 100W HEATER WITH THERMOSTAT
- 13 NEW 2 #12 XLP-USE, 1 #12 GND. 120 VAC POWER FROM BEACON POWER PANEL.
- 14 NEW 2 #10 XLP-USE, 1 #10 GND. 120 VAC POWER FROM BEACON POWER PANEL.
- 15 NEW 2 #10 XLP-USE, 1 #10 GND. 120 VAC POWER TO BEACON.
- 16 NEW ANTENNA AND YAGI ANTENNA MOUNTED ON BEACON TOWER. ANTENNA CABLE AND ANTENNA SHALL BE AS RECOMMENDED BY WIRELESS EQUIPMENT MANUFACTURER.

IL. CONTRACT: **PA063**
 IL. LETTING ITEM: **12A**
 IL. PROJECT: **PWK-4843**
 S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS		
NUMBER	BY	DATE



CHICAGO EXECUTIVE AIRPORT
WHEELING/PROSPECT HEIGHTS, ILLINOIS
REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALCMS
ADDITIVE ALTERNATE #1
BEACON - ELECTRICAL DETAILS

© Copyright CMT, Inc.

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

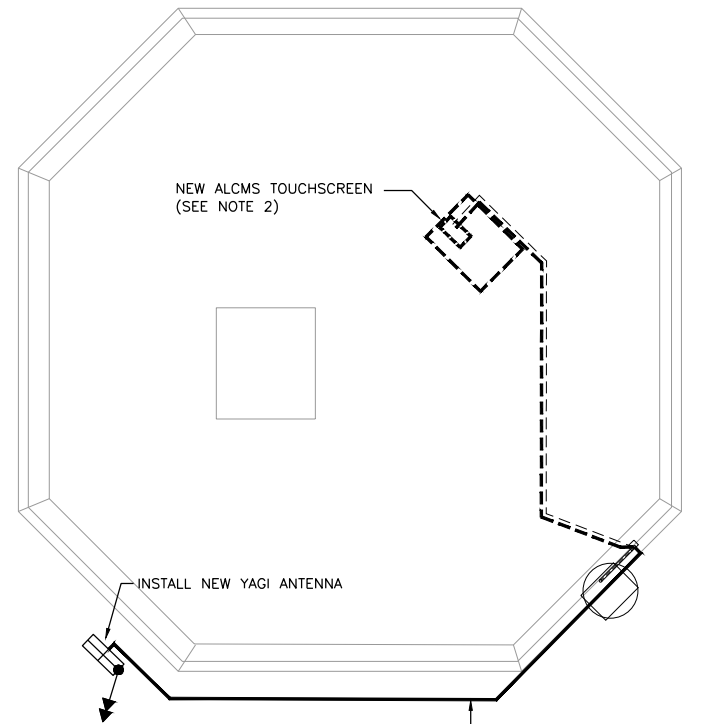
CHICAGO EXECUTIVE AIRPORT

DESIGN BY:	AB
DRAWN BY:	JRO
CHECKED BY:	AB
APPROVED BY:	DKP
DATE:	12/10/2021
JOB No:	20029004.00

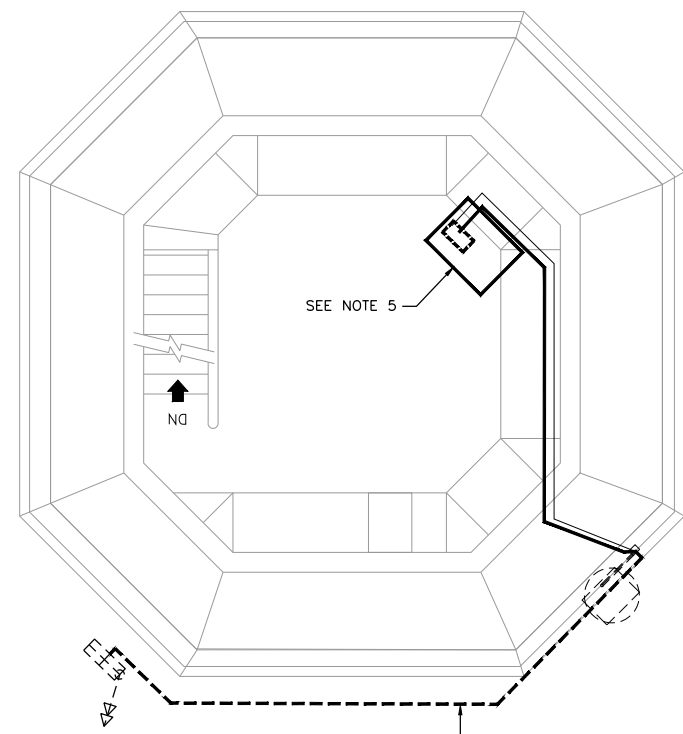
FINAL



EXISTING BEACON

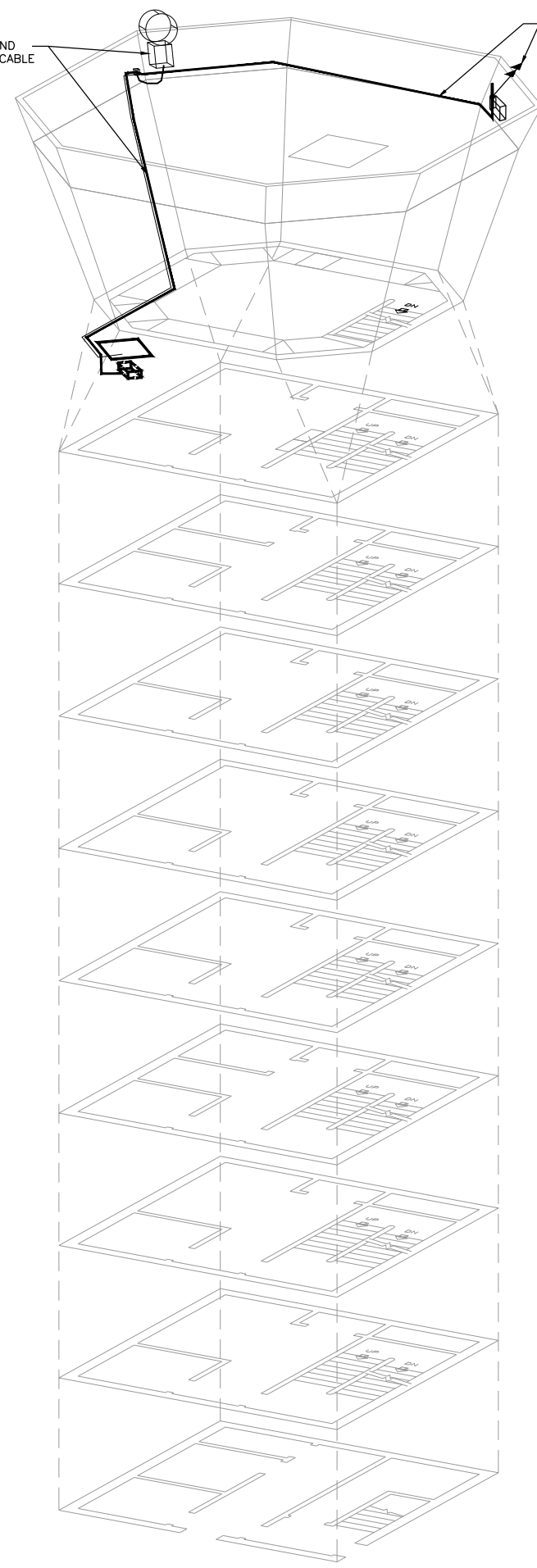


ROOF PLAN
NOT TO SCALE



ATCT TOWER CAB PLAN
NOT TO SCALE

REMOVE EXISTING BEACON AND BEACON POWER CABLES IN CABLE TROUGH / WIREWAY



ATCT ELEVATION
NOT TO SCALE



VIEW FROM WIRELESS ANTENNA TOWARDS ADS-B SITE

NOTES:

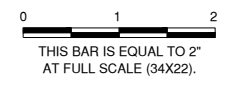
1. CONTRACTOR SHALL COORDINATE ALL WORK IN THE EXISTING CONTROL TOWER WITH THE FAA AIRWAYS FACILITIES REPRESENTATIVES, THE AIRPORT AND THE RESIDENT ENGINEER. CONTRACTOR SHALL GIVE A MINIMUM OF 7 DAYS NOTICE PRIOR TO BEGINNING WORK IN THE EXISTING TOWER.
2. CONTRACTOR SHALL INSTALL NEW BEACON WIRELESS TRANSMITTER IN ENCLOSURE INSIDE CABINET UNDER NEW ALCMS TOUCH SCREEN. CONNECT DIGITAL INPUT FROM BEACON PUSH BUTTON TO WIRELESS TRANSMITTER.
3. CONTRACTOR SHALL REMOVE EXISTING BEACON AND ASSOCIATED CONDUCTORS AFTER NEW BEACON IS OPERATIONAL.
4. CONTRACTOR TO PERFORM RADIO PATH STUDY FOR BEACON WIRELESS FOR ICC LICENSED COMMUNICATION AND ADJUST ANTENNA TYPE, HEIGHT AND DIRECTION AS NECESSARY, INCIDENTAL TO AS101510.
5. CONTRACTOR SHALL INSTALL NEW BEACON CONTROLLER, DCME, CONTROLLER POWER, ANTENNA, ANTENNA CABLE AND REMOVAL OF EXISTING BEACON TO PROVIDE COMPLETE AND OPERATIONAL SYSTEM TO THE SATISFACTION OF THE TOWER CHIEF, AIRPORT AND ENGINEER. ALL WORK TO BE PAID UNDER AS101510.
6. CONTRACTOR SHALL OBTAIN FCC LICENSE FROM RADIO CONTROL RADIO SERVICE (RCRS) FOR AUTHORIZED FREQUENCY TO OPERATE RADIO CONTROL. NEW WIRELESS EQUIPMENT SHALL BE DESIGNED TO OPERATE ON SPECIFIC FREQUENCY.

ALL NEW ITEMS AND ASSOCIATED WORK SHOWN ARE INCIDENTAL TO AS101510, AIRPORT ROTATING BEACON.

IL CONTRACT: **PA063**
IL LETTING ITEM: **12A**
IL PROJECT: **PWK-4843**
S.B.G. PROJECT:

SURVEY BOOK #

REVISIONS		
NUMBER	BY	DATE



CHICAGO EXECUTIVE AIRPORT
WHEELING/PROSPECT HEIGHTS, ILLINOIS
REHABILITATE AIRFIELD LIGHTING - PHASE 1 AND INSTALL ALCMS
ADDITIVE ALTERNATE #1
BEACON - ATCT MODIFICATIONS

© Copyright CMT, Inc.

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

DESIGN BY:	AB
DRAWN BY:	JRO
CHECKED BY:	AB
APPROVED BY:	DKP
DATE:	12/10/2021
JOB No:	20029004.00

FINAL

DATE: Thursday, December 9, 2021 9:57:30 AM
 FILE: K:\ChicagoExecApt\20029004_RehabilitateLightingPH1\Draw\Sheets\35 BEACON - ATCT MODIFICATIONS.dwg
 UPDATE BY: Kris Solvatero
 LAYOUT: BEACON - ATCT MODIFICATIONS
 XREF: DWG: \Media\chicagoexecutiveairport\lighting\img\img.dwg
 IMAGE FILES: DSC00768.JPG
 DSC00774.JPG
 PWRVIEWLOC_CEA-4-Color-Small (2).jpg