COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENT OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENT OF THIS DOCUMENT BY ANY METHOD, ELECTRONIC OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. ANY COPY OF THIS DOCUMENT, HAVING WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VALID, TRUE COPIES FROM THE ORIGINAL DOCUMENT.

TAXIWAY A REHABILITATION

FOR THE

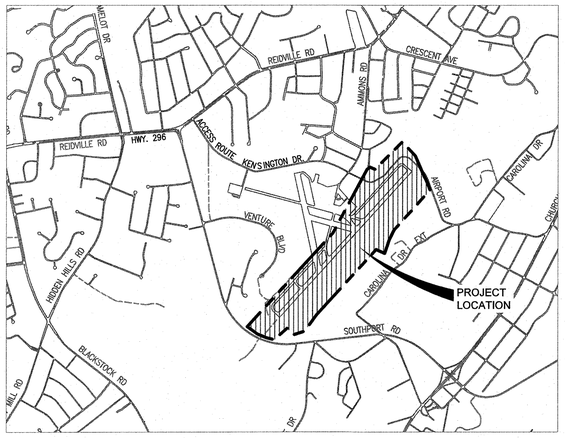
SPARTANBURG DOWNTOWN MEMORIAL AIRPORT

500 AMMONS ROAD,
SPARTANBURG, SC 29306

APRIL 2021

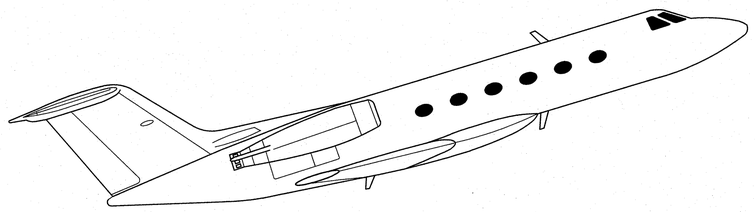
WKD PROJECT #: 20200317.00.CA

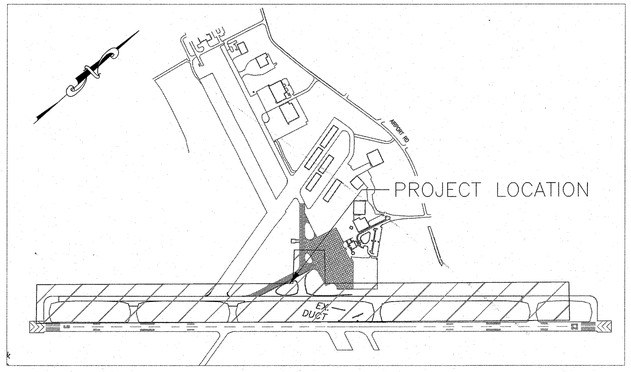
FAA AIP NO: 3-45-0051-024-2020



VICINITY MAP

SCALE: 1" = 2,000'





LOCATION MAP

SCALE 1" = 800'

WK DICKSON
community infrastructure consultants

City of SPARTANBURG
Downtown Memorial Airport

NOTICE TO CONTRACTOR

1. PRIOR TO CONSTRUCTION, DIGGING, OR EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST AND CROSS THROUGH THE AREA(S) OF CONSTRUCTION, WHETHER INDICATED ON THE PLANS OR NOT. CALL "811" A MINIMUM OF 72 HOURS PRIOR TO DIGGING OR EXCAVATING. REPAIRS TO ANY UTILITY DAMAGED RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

811 Know what's below. Call before you dig

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRKMEYER
4-20-2021
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: COVER SHEET

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
00 OF 40

WKD PROJ. NO.:
20200317.00.CA

FILEPATH: Z:\Projects\Airports\Spartanburg\20200317\DOCA - SPA Rnwy 4 Rehabilitation\CAD\Plan Set\Sheet Files\00 - COVER SHEET.dwg LAYOUT: Cover, Plotted: Wednesday, 4/20/2021 11:11:01 AM

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENTS OF THIS DOCUMENT, OR REMOVAL OF THIS NOTICE FROM THIS DOCUMENT WITHOUT THE PRIOR WRITTEN CONSENT OF W.K. DICKSON & CO., INC. IS PROHIBITED. ANY COPY MADE FROM THE ORIGINAL OF THIS DOCUMENT, VARIED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VALID. TRUE COPIES.

FILEPATH:C:\Projects\Projects\Spartanburg\20200317\DOCS - SPA HAPI Taxiway A Rehabilitation\CAD\Plan Set\Sheet Files\01 - GENERAL NOTES.dwg, LAYOUT: 01 - GENERAL NOTES, 4/20/2021 11:11:08 AM

GENERAL PROJECT NOTES:

1. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR HAVING VISITED THE SITE AND HAVING FAMILIARIZED HIMSELF WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
2. WORK INVOLVING ACCESS TO THE PROJECT SITE SHALL CONFORM TO THE REQUIREMENTS OF THE S.C.D.O.T. "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" LATEST APPROVED VERSION. THE CONTRACTOR SHALL PROVIDE THE REQUIRED WARNING DEVICES, FLAGMEN, ETC. FOR TRAFFIC CONTROL, AND OBTAIN ANY NECESSARY PERMITS AT THEIR OWN EXPENSE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, INSTALLING AND REMOVING ALL TEMPORARY SIGNS, MARKERS AND MARKINGS.
4. MONITORING UNICOM FREQUENCY IS REQUIRED AT ALL TIMES WHILE IN AIRPORT OPERATIONS AREA (AOA). THE CONTRACTOR SHALL PROVIDE AT HIS EXPENSE APPROPRIATE RADIO/SCANNER. UNICOM FREQUENCY IS 123.0 MHz.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF THE WORK TO THE LIMITS OF WORK AREAS.
6. THE CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UTILITIES AND FACILITIES (I.E., AIRPORT LIGHTING, NAVAIDS, ETC.) FROM DAMAGE BY EQUIPMENT OR PERSONNEL. THE CONTRACTOR SHALL CONTACT ALL UTILITY AND FACILITY AGENCIES FOR FIELD MARKING PRIOR TO BEGINNING CONSTRUCTION. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE UNDERGROUND UTILITIES. ALL UTILITIES AND FACILITIES ARE NOT NECESSARILY SHOWN.
7. ANY UTILITIES OR FACILITIES DAMAGED DURING THE PROJECT BY THE CONTRACTOR'S PERSONNEL OR EQUIPMENT SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE. HAND DIGGING TO PROTECT UTILITIES FROM DAMAGE SHOULD BE ANTICIPATED.
8. THE OWNER SHALL OBTAIN AN EROSION CONTROL PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY OTHER PERMITS, LICENSES, ETC. REQUIRED BY LOCAL, STATE, AND FEDERAL AGENCIES.
9. A PRE-CONSTRUCTION MEETING AND REGULAR PROJECT SAFETY MEETING MUST BE HELD ONSITE AS INSTRUCTED BY THE AIRPORT MANAGER, RESIDENT PROJECT REPRESENTATIVE OR ENGINEER.
10. THE CONTRACTOR WILL BE REQUIRED TO TRANSPORT AND STORE ALL EQUIPMENT AND MATERIALS IN A MANNER WHICH WILL NOT DAMAGE ANY EXISTING PAVEMENT, BUILDINGS, SIGNS, LIGHTS, ETC. ANY DAMAGE WILL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. THE CONTRACTOR SHALL KEEP ACCESS ROUTES CLEAN AND FREE OF LOOSE DEBRIS FROM CONSTRUCTION MATERIALS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR CLEARING ALL PAVEMENTS TRAVERSED BY CONSTRUCTION EQUIPMENT OF DEBRIS DAILY.
11. NO DEBRIS OF ANY NATURE SHALL BE ALLOWED OUTSIDE OF THE CONSTRUCTION AREAS. ALL LOOSE MATERIALS (DIRT, STONE, PAVEMENT, FORMING, ETC.) MUST BE KEPT WITHIN THE LIMITS OF CONSTRUCTION. WHEN THE CONSTRUCTION BARRIERS ARE MOVED DURING CONSTRUCTION, CLEANUP OF THE AREAS OUTSIDE THE BARRIERS SHALL OCCUR IMMEDIATELY. IN ADDITION, NO LOOSE MATERIALS THAT COULD BLOW INTO AIRCRAFT OPERATIONS AREA SHALL BE ALLOWED IN THE CONSTRUCTION AREA.
12. THE OWNER RESERVES THE RIGHT TO CONTRACT AND PERFORM OTHER OR ADDITIONAL WORK ADJACENT TO AND WITHIN THE WORK AREA COVERED BY THIS CONTRACT. WHEN SEPARATE CONTRACTS ARE LET WITHIN THE LIMITS OF ANY ONE PROJECT, EACH CONTRACTOR SHALL CONDUCT HIS WORK SO AS NOT TO INTERFERE WITH OR HINDER THE PROGRESS OR THE COMPLETION OF THE WORK BEING COMPLETED BY OTHER CONTRACTORS. THE CONTRACTORS WORKING ON THE SAME PROJECT SHALL COOPERATE WITH EACH OTHER AS REQUESTED BY THE ENGINEER. ANY ADDITIONAL EFFORT OR WORK REQUIRED FOR SUCH COORDINATION WITH OTHER CONTRACTORS SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE. REFERENCE IS DIRECTED TO SECTION 50-05 OF THE SPECIFICATIONS.
13. THE CONTRACTOR SHALL PROVIDE STRICT SECURITY FOR ALL PERSONNEL AT THE SITE AND TO TRUCK DRIVERS HAULING MATERIALS AND EQUIPMENT. ANYONE FOUND IN RESTRICTED AREAS OR CROSSING ACTIVE RUNWAYS, TAXIWAYS, AND RAMPS, WILL BE PROMPTLY AND PERMANENTLY REMOVED FROM THE JOB.
14. AT NO TIME WILL THE CONTRACTOR'S PERSONNEL OR EQUIPMENT BE ALLOWED IN THE TERMINAL OR AIRCRAFT PARKING RAMP AREAS EXCEPT IN THE AREAS IMMEDIATELY ADJACENT TO THE PROJECT WORK AREAS.
15. THE CONTRACTOR SHALL PROVIDE FOR EMPLOYEE PARKING WITHIN OR ADJACENT TO HIS STAGING AREA. ONLY AUTHORIZED VEHICLES WILL BE ALLOWED INSIDE THE SECURITY FENCE. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL POSITION ALL EQUIPMENT, TOOLS, MATERIAL, ETC. IN THE APPROVED STAGING AREA UNLESS OTHERWISE REQUESTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
16. EQUIPMENT NOT IN USE SHALL BE PARKED IN THE CONTRACTOR'S STAGING AREA OR IN AREAS DESIGNATED BY THE RESIDENT PROJECT REPRESENTATIVE.
17. ALL REQUIREMENTS OF FAA ADVISORY CIRCULAR 150-5370-2F "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION" SHALL BE FOLLOWED DURING CONSTRUCTION.
18. THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING WORK IN ACCORDANCE WITH THE LATEST REQUIREMENTS AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SAFETY AND SECURITY NOTES:

THROUGHOUT THE CONSTRUCTION PROJECT, THE FOLLOWING SAFETY AND OPERATIONAL PRACTICES SHALL BE OBSERVED:

1. THE CONTRACTOR MUST HAVE AT LEAST ONE (1) WORKING AIRFIELD RADIO AT EACH SITE ALL TIMES DURING CONSTRUCTION AND SHALL ASSIGN RESPONSIBLE PERSONNEL TO CONTINUOUSLY MONITOR GROUND CONTROL ON FREQUENCY 123.0 MHz.
2. THE CONTRACTOR, ENGINEER AND OWNER SHALL PERFORM ONSITE INSPECTIONS THROUGHOUT THE PROJECT, WITH IMMEDIATE REMEDY OF ANY DEFICIENCIES, WHETHER CAUSED BY NEGLIGENCE, OVERSIGHT, OR PROJECT SCOPE CHANGE.
3. THE CONTRACTOR SHALL COMPLY WITH ALL AIRPORT RULES AND REGULATIONS, AND SAFETY AND SECURITY REQUIREMENTS.
4. CONTRACTOR SHALL BE AWARE OF THE PENALTY PROVISIONS FOR NON-COMPLIANCE WITH AIRPORT RULES AND REGULATIONS AND THESE SAFETY PLANS, INCLUDING RESCISSION OF DRIVING PRIVILEGES OR ACCESS TO THE AIRCRAFT OPERATIONS AREA.
5. ALL CONSTRUCTION VEHICLES TRAVERSING ANY PORTION OF THE AIRPORT OPERATIONS AREA (AOA), MUST BE PROVIDED WITH A FLAG ON A STAFF ATTACHED TO THE VEHICLE SO THAT THE FLAG WILL BE READILY VISIBLE. THE FLAG MUST BE AT LEAST 3 FEET BY 3 FEET SQUARE HAVING A CHECKERED PATTERN OF INTERNATIONAL ORANGE AND WHITE SQUARES AT LEAST 1 FOOT ON EACH SIDE. THE STANDARD FOR IDENTIFICATION LIGHTING FOR VEHICLES OPERATING IN THE AOA IS AN AMBER FLASHING LIGHT THAT IS MOUNTED ON THE UPPERMOST PART OF THE VEHICLE STRUCTURE. A STEADY AMBER LIGHT DESIGNATES VEHICLES LIMITED TO NON-MOVEMENT AREAS. ALL MARKING AND LIGHTING SHALL BE IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5210-5. ALL CONSTRUCTION VEHICLES MUST BE CLEARED FOR ACCESS BY OWNER. ALL CONSTRUCTION VEHICLES, WITH THE EXCEPTION OF EQUIPMENT, MUST BE MARKED WITH THE COMPANY NAME IN LETTERING A MINIMUM OF 4 INCHES HIGH.
6. CONSTRUCTION CONTRACTORS SHALL CONTROL AND CONTINUOUSLY REMOVE WASTE OR LOOSE MATERIALS THAT MIGHT ATTRACT WILDLIFE. VARIOUS CONTRACTOR OPERATIONS DURING CONSTRUCTION CAN DIRECTLY OR INDIRECTLY CREATE WILDLIFE HAZARDS AT AIRPORTS. ONE INDIRECT WILDLIFE HAZARD BY CONTRACTOR PERSONNEL ACTIVITY IS THE GENERATION OF TRASH. FOOD SCRAPS MUST BE COLLECTED FROM CONSTRUCTION PERSONNEL AND DISPOSED OF APPROPRIATELY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ARRANGEMENTS FOR TRASH REMOVAL FROM THE PROJECT SITE AS WELL AS THE CONTRACTOR'S STAGING AREA. TRASH SHALL BE REMOVED FROM THE SITE ON A WEEKLY BASIS AS A MINIMUM REQUIREMENT. SHOULD THIS PRACTICE PROVE TO BE INADEQUATE, THE CONTRACTOR SHALL INCREASE THE FREQUENCY OF TRASH REMOVAL. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE DURING CONSTRUCTION TO AVOID STANDING WATER.
7. CONTRACTORS MUST NOT LEAVE OR PLACE FOREIGN OBJECT DEBRIS (FOD) ON OR NEAR ACTIVE AIRCRAFT MOVEMENT AREAS (AIRPORT OPERATIONS AREA). MATERIALS TRACKED ONTO THESE AREAS MUST BE CONTINUOUSLY REMOVED DURING THE CONSTRUCTION PROJECT. AN OPERATING POWER BROOM AND VACUUM SWEEPER, MUST BE ONSITE AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WALKING THE SITE EVERY DAY TO ENSURE THAT IT IS CLEAR OF ALL OBSTRUCTIONS AND FOD AT THE END OF EVERY DAY TO THE SATISFACTION OF THE ENGINEER AND AIRPORT OPERATIONS.
8. THE CONTRACTOR SHALL PROVIDE AT LEAST 72 HOURS NOTICE TO THE OWNER BEFORE ACCESSING ANY WORK AREA UNLESS OTHERWISE NOTED.
9. NO WORK AREAS SHALL BE CLOSED TO AIRCRAFT UNTIL SO AUTHORIZED BY THE OWNER.
10. THE CONTRACTOR SHALL COORDINATE AND MANAGE INGRESS-EGRESS LOCATIONS WITH THE OWNER. ALL GATES TO SECURED AIRPORT AREAS SHALL BE MANNED/MONITORED CONTINUOUSLY BY THE CONTRACTOR TO CONTROL ACCESS IN ACCORDANCE WITH THE OWNERS REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL GATES AT ALL TIMES.
11. THE CONTRACTOR MUST HAVE DIRECT RADIO CONTACT WITH AND RECEIVE APPROVAL FROM AIR TRAFFIC CONTROL (ATC) TOWER PRIOR TO OPERATING IN THE AIRCRAFT MOVEMENT AREA. WHILE OPERATING IN THE MOVEMENT AREA THE CONTRACTOR MUST MAINTAIN DIRECT RADIO CONTACT WITH ATC AT ALL TIMES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS/ HER STAFF AT ALL TIMES WHILE OPERATING IN THE MOVEMENT AREA. NO PERSON SHALL HAVE DIRECT ACCESS TO ANY RUNWAY OR TAXIWAY WITHOUT APPROVAL OF THE OWNER AND PERMISSION OF THE AIR TRAFFIC CONTROL. ANYONE FOUND IN RESTRICTED AREAS OR THE MOVEMENT AREA WITHOUT PERMISSION WILL BE IMMEDIATELY AND PERMANENTLY REMOVED FROM THE JOB SITE.
13. PERSONNEL, EQUIPMENT OR OTHER CONSTRUCTION-RELATED MATERIAL WILL NOT BE PERMITTED OUTSIDE OF DESIGNATED WORK AREAS.
14. COORDINATION AND PLACEMENT OF TEMPORARY BARRICADES SHALL BE COMPLETED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AND OWNER PRIOR TO CONSTRUCTION ACTIVITY.
15. BARRICADES, FLAGMEN AND GATE CONTROL SHALL BE PROVIDED BY THE CONTRACTOR AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER, TO ENSURE THAT TRAFFIC IS MAINTAINED ON THE DESIGNATED ROUTE. FLAGMEN SHALL BE EQUIPPED WITH WORKING AIRFIELD RADIOS AND SHALL BE RESPONSIBLE FOR COORDINATING AND OBTAINING APPROVAL THE MOVEMENT OF PERSONNEL AND EQUIPMENT ACROSS ACTIVE TAXIWAYS WITH GROUND CONTROL.
16. PROJECT ACCESS LOCATIONS, HAUL ROUTES AND STAGING AREAS SHALL BE COORDINATED WITH THE OWNER. THESE AREAS SHALL BE AVAILABLE TO THE CONTRACTOR FOR THE DURATION OF THE PROJECT, UNLESS OTHERWISE NOTED.
17. IN ORDER TO CONSTRUCT THIS PROJECT WITH MINIMAL INTERFERENCE TO AIRPORT OPERATIONS, THE CONTRACTOR SHALL CONDUCT HIS CONSTRUCTION OPERATIONS AS SHOWN ON THE CONSTRUCTION SEQUENCE AND SAFETY PHASING PLAN, & HIS APPROVED CONSTRUCTION PROGRESS SCHEDULE. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE ENGINEER TO MINIMIZE DISRUPTION TO AIRPORT OPERATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE COMPLIANCE WITH SAFETY REQUIREMENTS AND TO MINIMIZE INTERFERENCE TO AIRPORT OPERATIONS DURING CONSTRUCTION.
18. CONTRACTOR SHALL OBTAIN, HAVE KNOWLEDGE OF, & INCORPORATE THE FOLLOWING SAFETY PROVISIONS INTO THE CONSTRUCTION PROJECT:

    • OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION - AC 150/5370-2F.
    • AIRPORT SAFETY SELF-INSPECTION - AC 150/5200-18C.
    • SAFETY REQUIREMENTS OF THE SPECIFICATIONS.
    • SECURITY REQUIREMENTS OF THE SPECIFICATIONS.

20. CONTRACTOR WILL MAINTAIN SECURITY WITHIN THE PROJECT SITE AT ALL TIMES. NO UNAUTHORIZED PERSONNEL SHALL BE ALLOWED ON THE SITE.
21. ALL VEHICLES USED ON THE AIRFIELD SHALL MEET AIRPORT REQUIREMENTS FOR MARKING & LIGHTING.

HAUL ROUTES, STAGING AREAS & CONSTRUCTION ACTIVITIES:

1. ALL EQUIPMENT MUST BE RETURNED TO THE APPROPRIATE STAGING AREA (TRACK VERSUS NON-TRACK VEHICLES) AT THE END OF EACH WORK DAY & WHEN NOT ENGAGED IN THE CONSTRUCTION DURING NON-WORKING DAYS & NIGHTS. PLANS AND SPECIFICATIONS DESIGNATE AREAS FOR CONTRACTOR'S EMPLOYEES AUTO PARKING.
2. THE PROVISION & MAINTENANCE OF HAUL ROADS, HAUL ROAD STONE, TEMPORARY HAUL SLABS & STEEL PLATES SHALL BE CONSIDERED INCIDENTAL TO PROJECT.

CONSTRUCTION MAINTENANCE & FACILITIES MAINTENANCE:

THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT, THE CONTRACTOR MUST:

1. BE FAMILIAR WITH AND UNDERSTAND THE SAFETY PROBLEMS AND HAZARDS DESCRIBED IN AC 150/5370-2F, OPERATIONAL SAFETY ON AIRPORT DURING CONSTRUCTION.
2. CONDUCT ACTIVITIES SO AS NOT TO VIOLATE ANY SAFETY STANDARDS CONTAINED IN AC 150/5370-2F OR ANY OF THE REFERENCES THEREIN.
3. INSPECT ALL CONSTRUCTION AND STORAGE AREAS AS OFTEN AS NECESSARY TO BE AWARE OF CONDITIONS.
4. PROMPTLY TAKE ALL ACTIONS NECESSARY TO PREVENT OR REMEDY ANY UNSAFE OR POTENTIALLY UNSAFE CONDITIONS AS SOON AS THEY ARE DISCOVERED.

NOTAMS:

NOTAM REQUESTS FROM THE CONTRACTOR TO THE OWNER SHALL BE MADE AT LEAST 24 HOURS IN ADVANCE OF THE NEED FOR THE NOTAM. THE OWNER WILL COORDINATE AND ISSUE THE NECESSARY NOTAMS TO REFLECT CONSTRUCTION RELATED IMPACTS. NOTAMS ARE TO BE KEPT CURRENT AND REFLECT THE ACTUAL CONDITIONS WITH RESPECT TO CONSTRUCTION SITUATIONS. ACTIVE NOTAMS SHALL BE REVIEWED PERIODICALLY AND REVISED TO REFLECT THE CURRENT CONDITIONS.

RUNWAY & TAXIWAY SAFETY AREA (RSA & TSA):

THE RUNWAY MUST BE CLOSED IF CONSTRUCTION ACTIVITY WILL OCCUR WITHIN THE RUNWAY SAFETY AREA (RSA).

A TAXIWAY MUST BE CLOSED IF CONSTRUCTION ACTIVITY WILL OCCUR WITHIN THE TAXIWAY SAFETY AREA (TSA) OR TAXIWAY OBJECT FREE AREA (TOFA) (SEE AC 150/5370-2F FOR EXCEPTIONS).

OPEN TRENCHES OR EXCAVATIONS ARE NOT PERMITTED WITHIN ACTIVE RUNWAY OR TAXIWAY SAFETY AREAS.

ROFA - 400' FROM RUNWAY CENTERLINE
TAXIWAY OFA (ADG II) - 65.5' FROM TAXIWAY CENTERLINE
TAXIWAY TSA (ADG II) - 39.5' FROM TAXIWAY CENTERLINE

SURVEY NOTES:

1. THE FOLLOWING INFORMATION WAS USED FOR THE EXISTING SURVEY:
   HORIZONTAL POSITIONS ARE REFERENCED TO DATUM NAD83/11
   VERTICAL POSITIONS ARE REFERENCED TO DATUM NAVD88
2. ORIGINAL SURVEY DATA WAS OBTAINED FROM STEWART DATED JULY 15, 2020. SURVEY SIGNED AND SEALED BY KARL E. ALEWINE, SC PLS LICENSE NO. 22740 ON AUGUST 11, 2020.
3. SEE SHEET 02 FOR BENCHMARK CONTROL POINTS. BENCHMARKS WERE SET DURING SURVEY PERFORMED BY STEWART. THE CONTRACTOR'S SURVEYOR SHALL ESTABLISH CONTROL USING THESE POINTS.
4. NO DETERMINATION HAS BEEN MADE BY THE SURVEYOR AS TO THE FOLLOWING: FLOOD ZONES; WETLANDS; UNDERGROUND STORAGE FACILITIES; UNDERGROUND UTILITIES; GRAVES, CEMETERIES, PROPERTY BOUNDARIES, OR BURIAL GROUNDS; HAZARDOUS WASTE DEPOSITS OR MATERIALS.
5. SURVEY CONTROL POINTS PROVIDED IN SC STATE PLANE COORDINATES. ALL PROPOSED COORDINATES ARE GROUND COORDINATES. THE CONTRACTOR'S SURVEYOR IS RESPONSIBLE FOR ANY CONVERSIONS NEEDED FOR THE STAKEOUT OF THE PROPOSED GROUND COORDINATES SHOWN.

AIRPORT CONTACT:
TERRY CONNORTON
500 AMMONS ROAD
SPARTANBURG, SC 29306
PHONE: (864) 580-5004

Sheet List Table

Sheet Number	Sheet Title
00	COVER SHEET
01	GENERAL NOTES SHEET AND INDEX OF DRAWINGS
02	CONSTRUCTION SAFETY AND PHASING PLAN PHASE 1
03	CONSTRUCTION SAFETY AND PHASING PLAN PHASE 2
04	CONSTRUCTION SAFETY AND PHASING NOTES AND DETAILS
05	EXISTING CONDITIONS AND DEMOLITION PLAN
06	EXISTING CONDITIONS AND DEMOLITION PLAN
07	EXISTING CONDITIONS AND DEMOLITION PLAN
08	EXISTING CONDITIONS AND DEMOLITION PLAN
09	EXISTING CONDITIONS AND DEMOLITION PLAN
10	EXISTING CONDITIONS AND DEMOLITION PLAN
11	TAXIWAY A PLAN AND PROFILE STA. 10+00 TO 15+50
12	TAXIWAY A PLAN AND PROFILE STA. 15+50 TO 23+00
13	TAXIWAY A PLAN AND PROFILE STA. 23+00 TO 29+50
14	TAXIWAY A PLAN AND PROFILE STA. 29+50 TO 37+00
15	TAXIWAY A PLAN AND PROFILE STA. 37+00 TO 44+50
16	TAXIWAY A PLAN AND PROFILE STA. 44+50 TO 52+50
17	TAXIWAY A PLAN AND PROFILE STA. 52+50 TO 59+64.54
18	TAXIWAY B AND TAXIWAY A4 PLAN AND PROFILE
19	STORM DRAINAGE PROFILES
20	GRADING, DRAINAGE, AND EROSION CONTROL PLAN
21	GRADING, DRAINAGE, AND EROSION CONTROL PLAN
22	GRADING, DRAINAGE, AND EROSION CONTROL PLAN
23	GRADING, DRAINAGE, AND EROSION CONTROL PLAN
24	GRADING, DRAINAGE, AND EROSION CONTROL PLAN
25	GRADING, DRAINAGE, AND EROSION CONTROL PLAN
26	TAXIWAY C JOINT LAYOUT PLAN
27	TAXIWAY C JOINT ELEVATION PLAN
28	PAVEMENT MARKING PLAN

Sheet List Table

Sheet Number	Sheet Title
29	PAVEMENT MARKING PLAN
30	PAVEMENT MARKING PLAN
31	PAVEMENT MARKING PLAN
32	PAVEMENT MARKING PLAN
33	PAVEMENT MARKING PLAN
34	PAVEMENT MARKING PLAN
35	EROSION CONTROL DETAILS
36	EROSION CONTROL DETAILS
37	JOINT DETAILS
38	PAVEMENT MARKING DETAILS
39	PAVEMENT DETAILS
40	STORM DRAINAGE DETAILS
E01	AIRFIELD ELECTRICAL LEGEND, ABBREVIATIONS & NOTES
E02	AIRFIELD ELECTRICAL NOTES
E03	ELECTRICAL DEMOLITION PLAN
E04	ELECTRICAL DEMOLITION PLAN
E05	ELECTRICAL DEMOLITION PLAN
E06	ELECTRICAL LIGHTING PLAN
E07	ELECTRICAL LIGHTING PLAN
E08	ELECTRICAL LIGHTING PLAN
E09	ELECTRICAL CIRCUITING PLAN
E10	ELECTRICAL CIRCUITING PLAN
E11	AIRFIELD ELECTRICAL EDGE LIGHT DETAILS
E12	AIRFIELD ELECTRICAL EDGE LIGHT DETAILS
E13	AIRFIELD ELECTRICAL TRENCH DETIALS
E14	AIRFIELD ELECTRICAL CAN PLAZA DETAILS
E15	AIRFIELD ELECTRICAL JUNCTION CAN AND MARKER DETAILS
E16	AIRFIELD ELECTRICAL SIGN DETAILS
E17	AIRFIELD ELECTRICAL SIGN SCHEDULE

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRKMEYER
4-20-2021
PROFESSIONAL SEAL

REVISION RECORD

NO.	DESCRIPTION	DATE	BY

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: GENERAL NOTES SHEET AND INDEX OF DRAWINGS

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

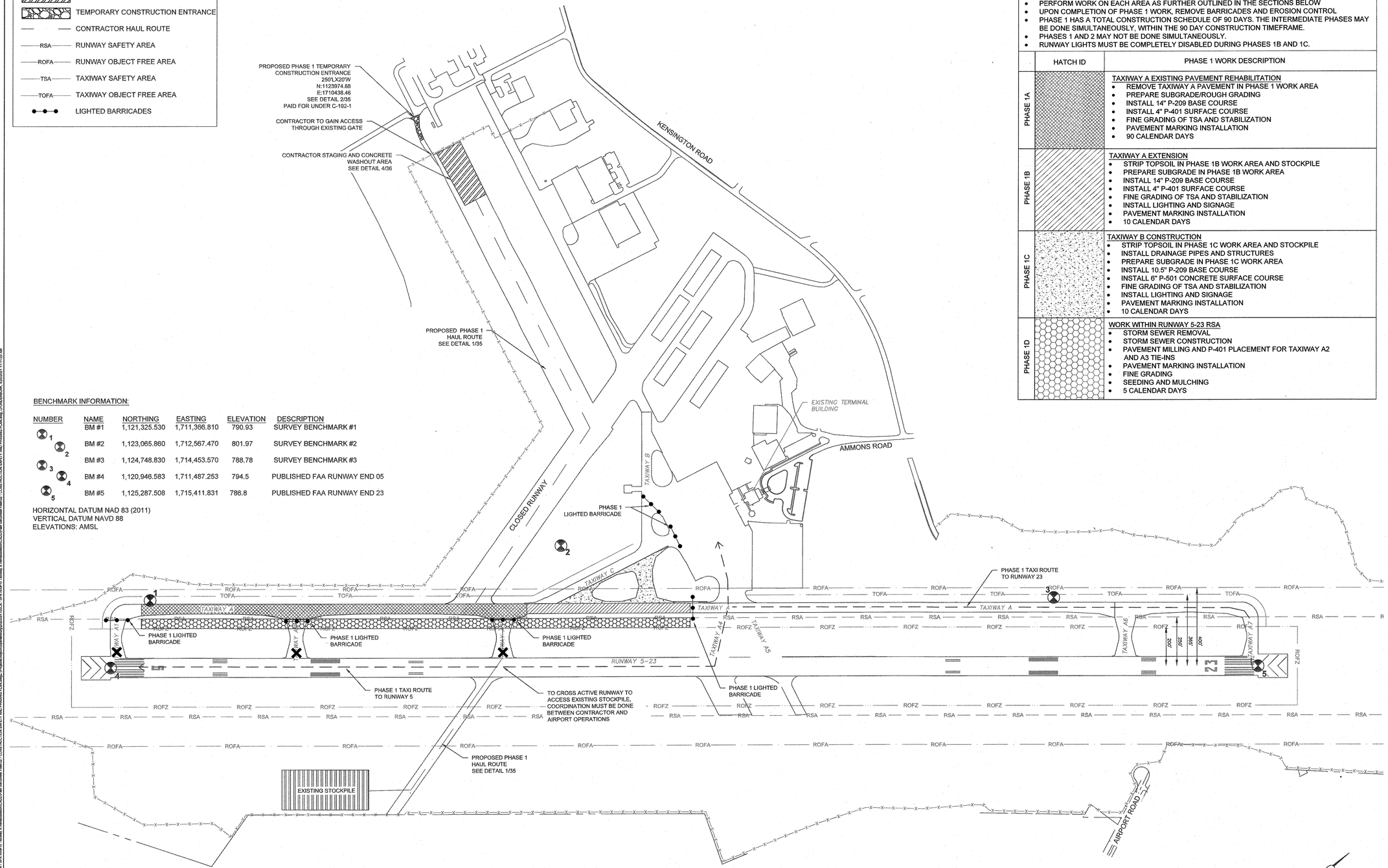
DRAWING NUMBER:
01 OF 40
WKD PROJ. NO.:
20200317.00.CA

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR ALTERATIONS BY ANY METHOD, ELECTRONIC OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. ANY COPY FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID, TRUE COPIES.

FILE PATH: C:\Projects\Airports\Spartanburg\20200317\GCA - SPA\Mar21\Survey & Rehabilitation\CAD\Plan Set\Sheet Files\02 - CONSTRUCTION SAFETY AND PHASING PLAN.dwg, 2/4/2021 11:11:03 AM

LEGEND

- TEMPORARY STOCKPILE AREA
- TEMPORARY CONSTRUCTION ENTRANCE
- CONTRACTOR HAUL ROUTE
- RSA — RUNWAY SAFETY AREA
- ROFA — RUNWAY OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- TOFA — TAXIWAY OBJECT FREE AREA
- LIGHTED BARRICADES



BENCHMARK INFORMATION:

NUMBER	NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	BM #1	1,121,325.530	1,711,366.810	790.93	SURVEY BENCHMARK #1
2	BM #2	1,123,065.860	1,712,567.470	801.97	SURVEY BENCHMARK #2
3	BM #3	1,124,748.830	1,714,453.570	788.78	SURVEY BENCHMARK #3
4	BM #4	1,120,946.583	1,711,487.253	794.5	PUBLISHED FAA RUNWAY END 05
5	BM #5	1,125,287.508	1,715,411.831	786.8	PUBLISHED FAA RUNWAY END 23

HORIZONTAL DATUM NAD 83 (2011)
VERTICAL DATUM NAVD 88
ELEVATIONS: AMSL

CONSTRUCTION PHASING

TAXIWAY A REHABILITATION PHASE 1 PHASING PLAN

- INSTALL PHASE 1 EROSION CONTROL AND BARRICADES
- PERFORM WORK ON EACH AREA AS FURTHER OUTLINED IN THE SECTIONS BELOW
- UPON COMPLETION OF PHASE 1 WORK, REMOVE BARRICADES AND EROSION CONTROL
- PHASE 1 HAS A TOTAL CONSTRUCTION SCHEDULE OF 90 DAYS. THE INTERMEDIATE PHASES MAY BE DONE SIMULTANEOUSLY, WITHIN THE 90 DAY CONSTRUCTION TIMEFRAME.
- PHASES 1 AND 2 MAY NOT BE DONE SIMULTANEOUSLY.
- RUNWAY LIGHTS MUST BE COMPLETELY DISABLED DURING PHASES 1B AND 1C.

	HATCH ID	PHASE 1 WORK DESCRIPTION
PHASE 1A		TAXIWAY A EXISTING PAVEMENT REHABILITATION • REMOVE TAXIWAY A PAVEMENT IN PHASE 1 WORK AREA • PREPARE SUBGRADE/ROUGH GRADING • INSTALL 14" P-209 BASE COURSE • INSTALL 4" P-401 SURFACE COURSE • FINE GRADING OF TSA AND STABILIZATION • PAVEMENT MARKING INSTALLATION • 90 CALENDAR DAYS
PHASE 1B		TAXIWAY A EXTENSION • STRIP TOPSOIL IN PHASE 1B WORK AREA AND STOCKPILE • PREPARE SUBGRADE IN PHASE 1B WORK AREA • INSTALL 14" P-209 BASE COURSE • INSTALL 4" P-401 SURFACE COURSE • FINE GRADING OF TSA AND STABILIZATION • INSTALL LIGHTING AND SIGNAGE • PAVEMENT MARKING INSTALLATION • 10 CALENDAR DAYS
PHASE 1C		TAXIWAY B CONSTRUCTION • STRIP TOPSOIL IN PHASE 1C WORK AREA AND STOCKPILE • INSTALL DRAINAGE PIPES AND STRUCTURES • PREPARE SUBGRADE IN PHASE 1C WORK AREA • INSTALL 10.5" P-209 BASE COURSE • INSTALL 6" P-501 CONCRETE SURFACE COURSE • FINE GRADING OF TSA AND STABILIZATION • INSTALL LIGHTING AND SIGNAGE • PAVEMENT MARKING INSTALLATION • 10 CALENDAR DAYS
PHASE 1D		WORK WITHIN RUNWAY 5-23 RSA • STORM SEWER REMOVAL • STORM SEWER CONSTRUCTION • PAVEMENT MILLING AND P-401 PLACEMENT FOR TAXIWAY A2 AND A3 TIE-INS • PAVEMENT MARKING INSTALLATION • FINE GRADING • SEEDING AND MULCHING • 5 CALENDAR DAYS

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BRINKMEYER
2-22-2021
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: CONSTRUCTION SAFETY PLAN

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
02 OF 40

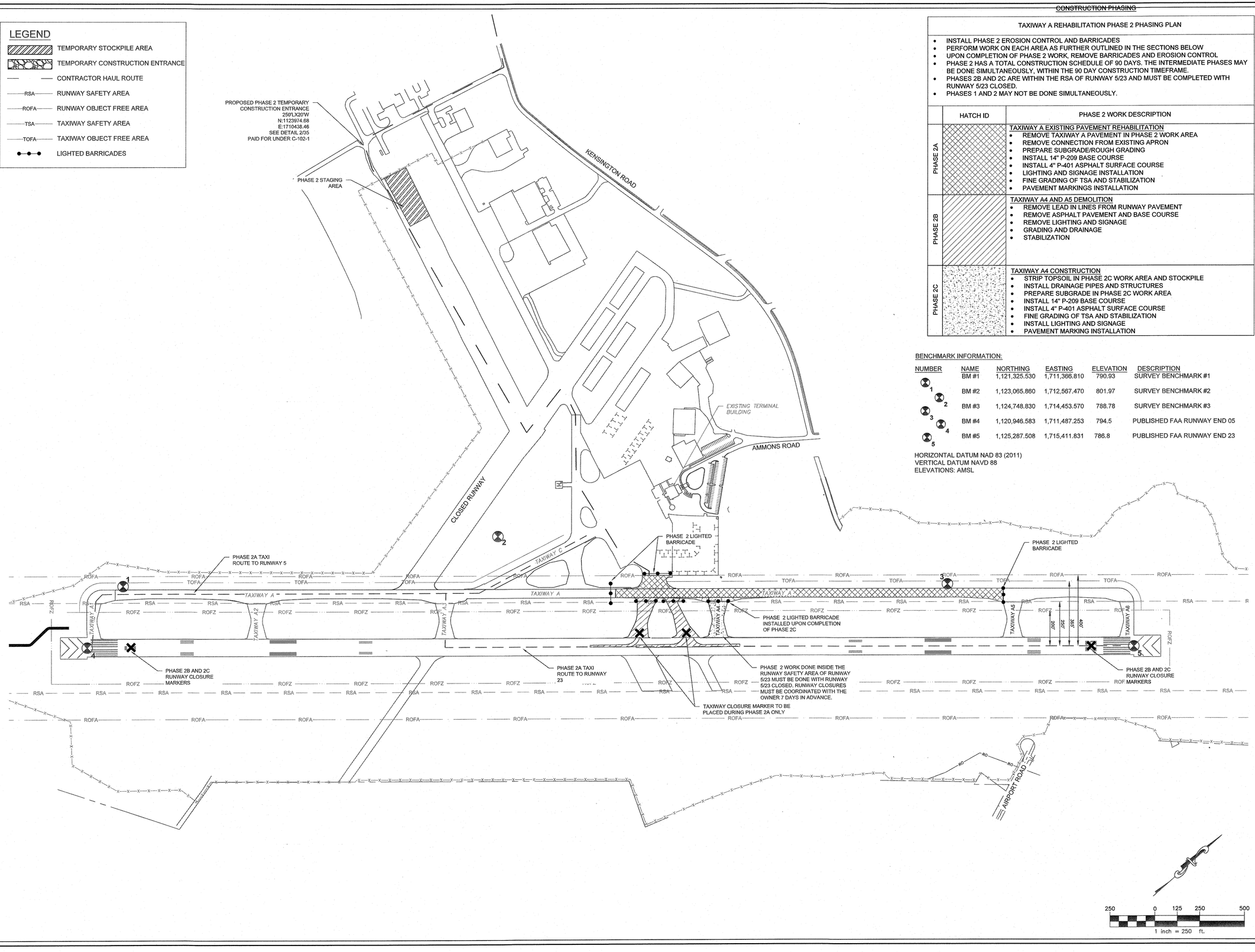
WKD PROJ. NO.:
20200317.00.CA

COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR ALTERATIONS BY ANY METHOD, ELECTRONIC OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. ANY COPY MADE FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID, TRUE COPIES.

FILE PATH: Z:\Projects\Airports\Spartanburg\20200317.00CA - SPA VA4R-5 Taxiway A Rehabilitation\CAD\Plan Set\Sheet Files\4 - CONSTRUCTION SAFETY AND PHASING PLAN.dwg, LPLAN3D(BK), 4/8/2021 11:11:08 AM

LEGEND

- TEMPORARY STOCKPILE AREA
- TEMPORARY CONSTRUCTION ENTRANCE
- CONTRACTOR HAUL ROUTE
- RSA — RUNWAY SAFETY AREA
- ROFA — RUNWAY OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- TOFA — TAXIWAY OBJECT FREE AREA
- LIGHTED BARRICADES



~~CONSTRUCTION PHASING~~

TAXIWAY A REHABILITATION PHASE 2 PHASING PLAN		
• INSTALL PHASE 2 EROSION CONTROL AND BARRICADES • PERFORM WORK ON EACH AREA AS FURTHER OUTLINED IN THE SECTIONS BELOW • UPON COMPLETION OF PHASE 2 WORK, REMOVE BARRICADES AND EROSION CONTROL • PHASE 2 HAS A TOTAL CONSTRUCTION SCHEDULE OF 90 DAYS. THE INTERMEDIATE PHASES MAY BE DONE SIMULTANEOUSLY, WITHIN THE 90 DAY CONSTRUCTION TIMEFRAME. • PHASES 2B AND 2C ARE WITHIN THE RSA OF RUNWAY 5/23 AND MUST BE COMPLETED WITH RUNWAY 5/23 CLOSED. • PHASES 1 AND 2 MAY NOT BE DONE SIMULTANEOUSLY.		
	HATCH ID	PHASE 2 WORK DESCRIPTION
PHASE 2A		TAXIWAY A EXISTING PAVEMENT REHABILITATION • REMOVE TAXIWAY A PAVEMENT IN PHASE 2 WORK AREA • REMOVE CONNECTION FROM EXISTING APRON • PREPARE SUBGRADE/ROUGH GRADING • INSTALL 14" P-209 BASE COURSE • INSTALL 4" P-401 ASPHALT SURFACE COURSE • LIGHTING AND SIGNAGE INSTALLATION • FINE GRADING OF TSA AND STABILIZATION • PAVEMENT MARKINGS INSTALLATION
PHASE 2B		TAXIWAY A4 AND A5 DEMOLITION • REMOVE LEAD IN LINES FROM RUNWAY PAVEMENT • REMOVE ASPHALT PAVEMENT AND BASE COURSE • REMOVE LIGHTING AND SIGNAGE • GRADING AND DRAINAGE • STABILIZATION
PHASE 2C		TAXIWAY A4 CONSTRUCTION • STRIP TOPSOIL IN PHASE 2C WORK AREA AND STOCKPILE • INSTALL DRAINAGE PIPES AND STRUCTURES • PREPARE SUBGRADE IN PHASE 2C WORK AREA • INSTALL 14" P-209 BASE COURSE • INSTALL 4" P-401 ASPHALT SURFACE COURSE • FINE GRADING OF TSA AND STABILIZATION • INSTALL LIGHTING AND SIGNAGE • PAVEMENT MARKING INSTALLATION

BENCHMARK INFORMATION:

NUMBER	NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	BM #1	1,121,325.530	1,711,366.810	790.93	SURVEY BENCHMARK #1
2	BM #2	1,123,065.860	1,712,567.470	801.97	SURVEY BENCHMARK #2
3	BM #3	1,124,748.830	1,714,453.570	788.78	SURVEY BENCHMARK #3
4	BM #4	1,120,946.583	1,711,487.253	794.5	PUBLISHED FAA RUNWAY END 05
5	BM #5	1,125,287.508	1,715,411.831	786.8	PUBLISHED FAA RUNWAY END 23

HORIZONTAL DATUM NAD 83 (2011)
VERTICAL DATUM NAVD 88
ELEVATIONS: AMSL

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177.
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BRAMMER
4-22-2021
PROFESSIONAL SEAL

REVISION RECORD

NO.	DESCRIPTION	DATE	BY

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: CONSTRUCTION SAFETY AND PHASING PLAN PHASE 2

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
03 OF 40
WKD PROJ. NO.:
20200317.00.CA

COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENTS OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENTS OF THIS DOCUMENT BY ANY METHOD OR IN ANY FORM, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ELECTRONIC DOCUMENTS ARE NOT TO BE USED AS CONTRACT DOCUMENTS. ONLY PRINTED COPIES FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. THAT COPIES.

GENERAL SAFETY REQUIREMENTS

THROUGHOUT THE CONSTRUCTION PROJECT, THE FOLLOWING SAFETY AND OPERATIONAL PRACTICES SHOULD BE OBSERVED:

1. OPERATIONAL SAFETY SHOULD BE A STANDING AGENDA ITEM DURING PROGRESS MEETINGS THROUGHOUT THE CONSTRUCTION PROJECT.
2. THE CONTRACTOR AND AIRPORT OPERATOR SHALL PERFORM ONSITE INSPECTIONS THROUGHOUT THE PROJECT, WITH IMMEDIATE REMEDY OF ANY DEFICIENCIES, WHETHER CAUSED BY NEGLIGENCE, OVERSIGHT, OR PROJECT SCOPE CHANGE.
3. AIRPORT RUNWAYS AND TAXIWAYS MUST REMAIN IN USE BY AIRCRAFT TO THE MAXIMUM EXTENT POSSIBLE.
4. AIRCRAFT USE OF AREAS NEAR THE CONTRACTOR'S WORK WILL BE CONTROLLED BY AIRPORT OPERATIONS AND CONTRACTOR'S FLAGMEN TO MINIMIZE DISTURBANCE TO THE CONTRACTOR'S AND AIRCRAFT'S OPERATIONS.
5. CONTRACTOR, SUB CONTRACTORS, AND SUPPLIER EMPLOYEES OR ANY OTHER UNAUTHORIZED PERSONS MUST BE RESTRICTED FROM ENTERING OR REMAINING IN AN AIRPORT OPERATIONS AREA THAT WOULD BE HAZARDOUS.
6. CONSTRUCTION THAT IS WITHIN THE SAFETY AREA OF AN ACTIVE RUNWAY, TAXIWAY, OR APRON THAT IS PERFORMED UNDER NORMAL OPERATIONAL CONDITIONS MUST BE PERFORMED WHEN THE RUNWAY, TAXIWAY, OR APRON IS CLOSED OR USE-RESTRICTED AND INITIATED ONLY WITH PRIOR PERMISSION FROM THE AIRPORT MANAGEMENT.
7. ALL CONSTRUCTION ACTIVITY WITHIN THE AIR OPERATIONS AREA (AOA) MUST BE COORDINATED WITH THE RESIDENT PROJECT REPRESENTATIVE. THE AOA IS THE AREA INSIDE THE AIRPORT PERIMETER FENCE.

RUNWAY AND TAXIWAY SAFETY AREA (RSA AND TSA)

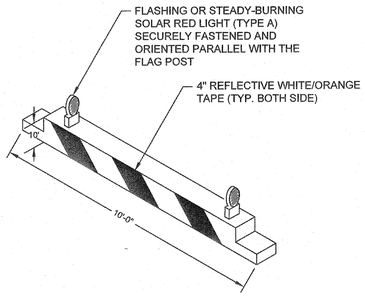
A RUNWAY MUST BE CLOSED FOR CONSTRUCTION ACTIVITY WITHIN THE RSA (SEE AC 150/5370-2G FOR EXCEPTIONS).

NO CONSTRUCTION ACTIVITY IS ALLOWED WITHIN THE TAXIWAY OBJECT FREE AREA WHEN THE TAXIWAY IS OPEN TO AIRCRAFT TRAFFIC.

GENERAL ORDER OF CONSTRUCTION:

THE CONTRACTOR SHALL:

1. ATTEND PRE-CONSTRUCTION MEETING WITH OWNER, ENGINEER, AND REGULATORY PERSONNEL.
2. MOBILIZE AND DELINEATE THE SAFETY AREAS, WITH SURVEYOR'S FLAGGING OR OTHER SUITABLE MEANS, TO CLEARLY IDENTIFY THE SAFETY AREAS TO HIS PERSONNEL.
3. INSTALL THE TEMPORARY CONSTRUCTION ENTRANCES AND INITIAL PHASE EROSION AND SEDIMENT CONTROL MEASURES. DELINEATE THE CONTRACTOR STAGING AREA.
4. FOLLOW CONSTRUCTION IN ORDER OF PHASING AS DEFINED BY THIS PLAN SET.
5. REPAIR ANY DAMAGED AREAS, PROVIDE STABILIZATION PHASE EROSION AND SEDIMENT CONTROL MEASURES, CLEAN SITE, ETC. DEMOBILIZE.



NOTE:

1. BARRICADES SHALL BE WATER FILLED AND SPACED A MAXIMUM OF 4' APART
2. THE CONTRACTOR SHALL MAKE FREQUENT INSPECTION OF THE BARRICADES AND MAKE PROMPT REPAIRS AS NECESSARY. LIGHT SHALL BE OPERATING EVERY NIGHT.
3. BARRICADES SHALL BE ADEQUATELY SECURED WITH SAND BAGS AND FILLED WITH WATER TO WITHSTAND HIGH WINDS AND/OR JET BLAST.
4. CONTRACTOR SHALL PROVIDE AND INSTALL BARRICADES AND MAINTAIN LIGHTS AND FLAGS THROUGHOUT THE DURATION OF THE PROJECT, INCLUDING ANY MORATORIUM PERIOD.
5. BARRICADES SHALL BE INCIDENTAL TO MOBILIZATION, PAID UNDER ITEM C-105-1 AND SHALL BECOME PROPERTY OF THE AIRPORT UPON COMPLETION OF THE PROJECT.

1/04 LIGHTED BARRICADE DETAIL
NOT TO SCALE

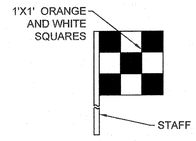
PROCEDURES FOR PROTECTING RUNWAY EDGES

1. PREVENT PERSONNEL, MATERIAL, AND/OR EQUIPMENT, AS DEFINED IN AC 150/5300-13A, PARAGRAPH-308, FROM PENETRATING THE RUNWAY OBSTACLE FREE ZONE (ROFZ).
2. COORDINATE CONSTRUCTION ACTIVITY WITH THE AIRPORT MANAGER THROUGH THE RESIDENT PROJECT REPRESENTATIVE.

CONSTRUCTION MAINTENANCE AND FACILITIES MAINTENANCE:

BEFORE BEGINNING ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR MUST, THROUGH THE AIRPORT OPERATOR, GIVE NOTICE (USING THE NOTICE TO AIRMEN (NOTAM) SYSTEM) OF PROPOSED LOCATION, TIME, AND DATE OF COMMENCEMENT OF CONSTRUCTION. UPON COMPLETION OF WORK AND RETURN OF ALL SUCH AREAS TO STANDARD CONDITIONS, THE CONTRACTOR MUST, THROUGH THE AIRPORT OPERATOR, VERIFY THE CANCELLATION OF ALL NOTICES ISSUED VIA THE NOTAM SYSTEM. THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT, THE CONTRACTOR MUST:

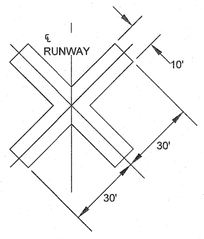
1. BE FAMILIAR WITH AND UNDERSTAND THE SAFETY PROBLEMS AND HAZARDS DESCRIBED IN AC 150/5370-2G, OPERATIONAL SAFETY ON AIRPORT DURING CONSTRUCTION.
2. CONDUCT ACTIVITIES SO AS NOT TO VIOLATE ANY SAFETY STANDARDS CONTAINED IN AC 150/5370-2G OR ANY OF THE REFERENCES THEREIN.
3. INSPECT ALL CONSTRUCTION AND STORAGE AREAS AS OFTEN AS NECESSARY TO BE AWARE OF CONDITIONS.
4. PROMPTLY TAKE ALL ACTIONS NECESSARY TO PREVENT OR REMEDY ANY UNSAFE OR POTENTIALLY UNSAFE CONDITIONS AS SOON AS THEY ARE DISCOVERED.



NOTES:

1. ALL VEHICLES SHALL HAVE A FLAG ON A STAFF OR AMBER FLASHING LIGHT ATTACHED TO THE VEHICLE SO THE FLAG WILL BE READILY VISIBLE.
2. THE FLAG WILL BE A MIN OF 3 FOOT SQUARE WITH A CHECKERED PATTERN OF INTERNATIONAL ORANGE AND WHITE AT LEAST 1 FOOT ON EACH SIDE.

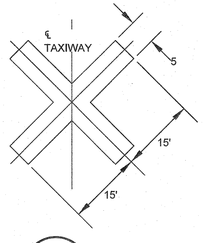
2/04 VEHICLE FLAG DETAIL
NTS



NOTE:

1. MARKERS TO BE CONSTRUCTED OF EXTERIOR GRADE PLYWOOD OR A MATERIAL AS APPROVED BY THE ENGINEER WHICH WILL LAST UNTIL THE PROJECT IS COMPLETED AND CAN BE RELOCATED AS REQUIRED.
2. MARKERS SHALL BE YELLOW IN COLOR.
3. NO SEPARATE PAYMENT WILL BE MADE FOR THE MARKERS - COST SHALL BE INCIDENTAL TO MOBILIZATION.

3/04 TEMPORARY CLOSED RUNWAY MARKER
NTS



NOTE:

1. MARKERS TO BE CONSTRUCTED OF EXTERIOR GRADE PLYWOOD OR A MATERIAL AS APPROVED BY THE ENGINEER WHICH WILL LAST UNTIL THE PROJECT IS COMPLETED AND CAN BE RELOCATED AS REQUIRED.
2. MARKERS SHALL BE YELLOW IN COLOR.
3. NO SEPARATE PAYMENT WILL BE MADE FOR THE MARKERS - COST SHALL BE INCIDENTAL TO MOBILIZATION.

4/04 TEMPORARY CLOSED TAXIWAY MARKER
NTS

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRKMEYER
4-22-21
PROFESSIONAL SEAL

REVISION RECORD

NO.	DESCRIPTION	DATE	BY

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: CONSTRUCTION SAFETY AND PHASING NOTES AND DETAILS

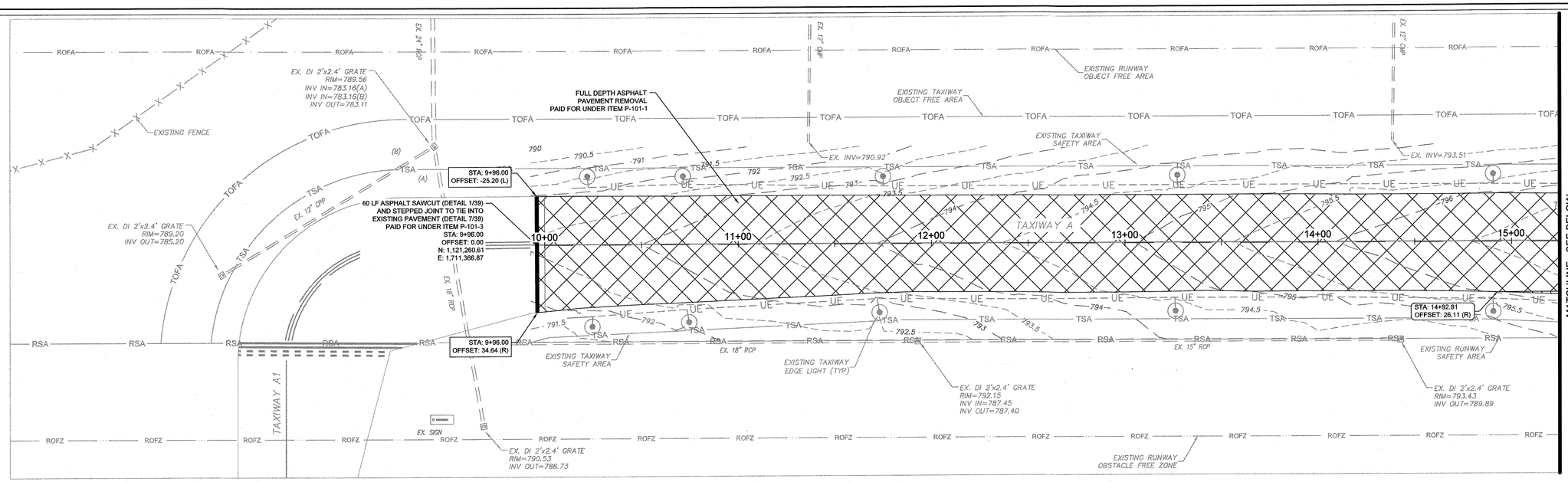
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

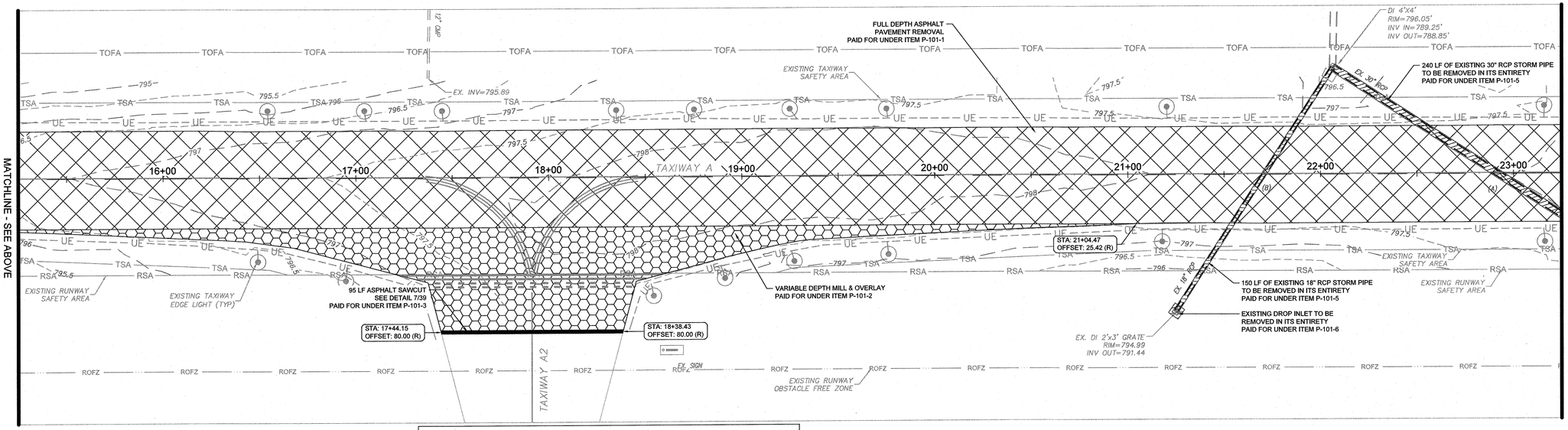
DRAWING NUMBER: 04 OF 40

WKD PROJ. NO.: 20200317.00.CA

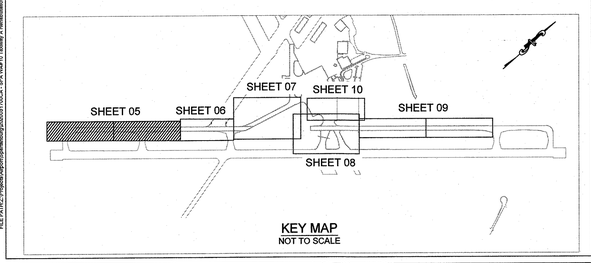
FILE PATH: Z:\Projects\Airport\Spartanburg\20200317.00CA - SPA Wk#15 Taxiway A Rehab\Master\CAD\Plan Set\Sheet Files\04 - CONSTRUCTION SAFETY AND PHASING PLAN.dwg, Z:\Projects\Airport\Spartanburg\20200317.00CA - SPA Wk#15 Taxiway A Rehab\Master\CAD\Plan Set\Sheet Files\04 - CONSTRUCTION SAFETY AND PHASING PLAN.dwg, 4/20/2021 11:13:55 AM

COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENT OR THIS DOCUMENT, ADDITIONS OR MODIFICATIONS TO THIS CONTENT OR THIS DOCUMENT, OR PREPARATION OF DERIVATIVE WORKS BASED ON THIS CONTENT OR THIS DOCUMENT, IN WHOLE OR IN PART, WITHOUT PRIOR WRITTEN PERMISSION IS PROHIBITED. ANY REPRODUCTION OF THIS CONTENT OR THIS DOCUMENT MUST INCLUDE THIS COPYRIGHT NOTICE AND THIS NOTICE AS PRINTED THEREON. ANY REPRODUCTION MADE FROM THIS CONTENT OR THIS DOCUMENT MUST BE MARKED WITH THE WORDS "COPY" OR "REPRODUCTION" AND MUST BE ACCOMPANIED BY A STATEMENT IDENTIFYING THE PARTY WHO MADE THE COPY AND THE DATE ON WHICH IT WAS MADE. ANY REPRODUCTION MADE FROM THIS CONTENT OR THIS DOCUMENT MUST BE MADE FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL AND MUST BE CONSIDERED TO BE VALID, TRUE COPIES.





30 0 15 30 60
1 inch = 30 ft.



KEY MAP
NOT TO SCALE

LEGEND

- RSA — EXISTING RUNWAY SAFETY AREA
- ROFA — EXISTING RUNWAY OBJECT FREE AREA
- ROFZ — EXISTING RUNWAY OBSTACLE FREE ZONE
- TSA — EXISTING TAXIWAY SAFETY AREA
- TOFA — EXISTING TAXIWAY OBJECT FREE AREA
- PROPOSED FULL DEPTH PAVEMENT REMOVAL
- PROPOSED VARIABLE DEPTH MILL (SEE DETAIL 7/39)
- PROPOSED CONCRETE REMOVAL
- PROPOSED PAVEMENT MARKING REMOVAL
- PROPOSED STORM SEWER REMOVAL
- EXISTING TAXIWAY EDGE LIGHTS
- EXISTING RUNWAY EDGE LIGHTS

EXISTING CONDITION & DEMOLITION NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. EXISTING FEATURES NOT SHOWN TO BE REMOVED SHALL BE PROTECTED BY THE CONTRACTOR. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND OWNER, AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ITEMS SHOWN FOR DEMOLITION AND REMOVAL IN A SAFE AND LEGAL MANNER OFF AIRPORT PROPERTY, UNLESS NOTED OTHERWISE.
4. ANY DAMAGE TO THE EXISTING STORM SEWER SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. FULL DEPTH CONCRETE OR ASPHALT PAVEMENT REMOVAL SHALL BE PAID PER SQUARE YARD UNDER ITEM P-101-1.
6. VARIABLE DEPTH MILLING OF ASPHALT PAVEMENT SHALL BE PAID PER SQUARE YARD UNDER ITEM P-101-2.
7. WHERE NEW PAVEMENT ADJOINS EXISTING PAVEMENT, SAW CUT EXISTING PAVEMENT FULL DEPTH TO A NEAT, VERTICAL EDGE PRIOR TO PAVING. SAW CUTTING SHALL BE PAID PER LINEAR FOOT UNDER ITEM P-101-3.
8. THERE WILL BE NO ADDITIONAL PAYMENT FOR THE REMOVAL OF PAVEMENT MARKINGS WITHIN THE LIMITS OF PAVEMENT REMOVAL OR MILLING.
9. EXISTING PAVEMENT MARKINGS TO BE REMOVED, OUTSIDE THE LIMITS OF PAVEMENT REMOVAL OR MILLING, SHALL BE PAID PER SQUARE FOOT UNDER ITEM P-101-4.
10. REMOVAL OF EXISTING DRAINAGE PIPES SHALL BE PAID FOR COMPLETE UNDER ITEM P-101-5. THIS PAY ITEM INCLUDES EXCAVATION NEEDED TO REMOVE THE PIPE, REMOVAL OF THE PIPE AND BACKFILL MATERIAL, AND DISPOSAL.
11. REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE PAID COMPLETE UNDER ITEM P-101-6. PAY ITEM INCLUDES EXCAVATION NEEDED, REMOVAL OF THE STRUCTURE AND FOUNDATIONS OF BACKFILL MATERIAL AND DISPOSAL.
12. SEE THE ELECTRIC LIGHTING DEMOLITION PLAN (COMPLETED BY OTHERS) FOR DEMOLITION OF EXISTING LIGHTS, SIGNS, AND OTHER ELECTRICAL ITEMS.

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA
W. K. DICKSON & COMPANY, INC.
No. C00177
CERTIFICATE OF AUTHORIZATION
C.O.A.

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRMELIN
5-20-2021
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT
SPARTANBURG, SC

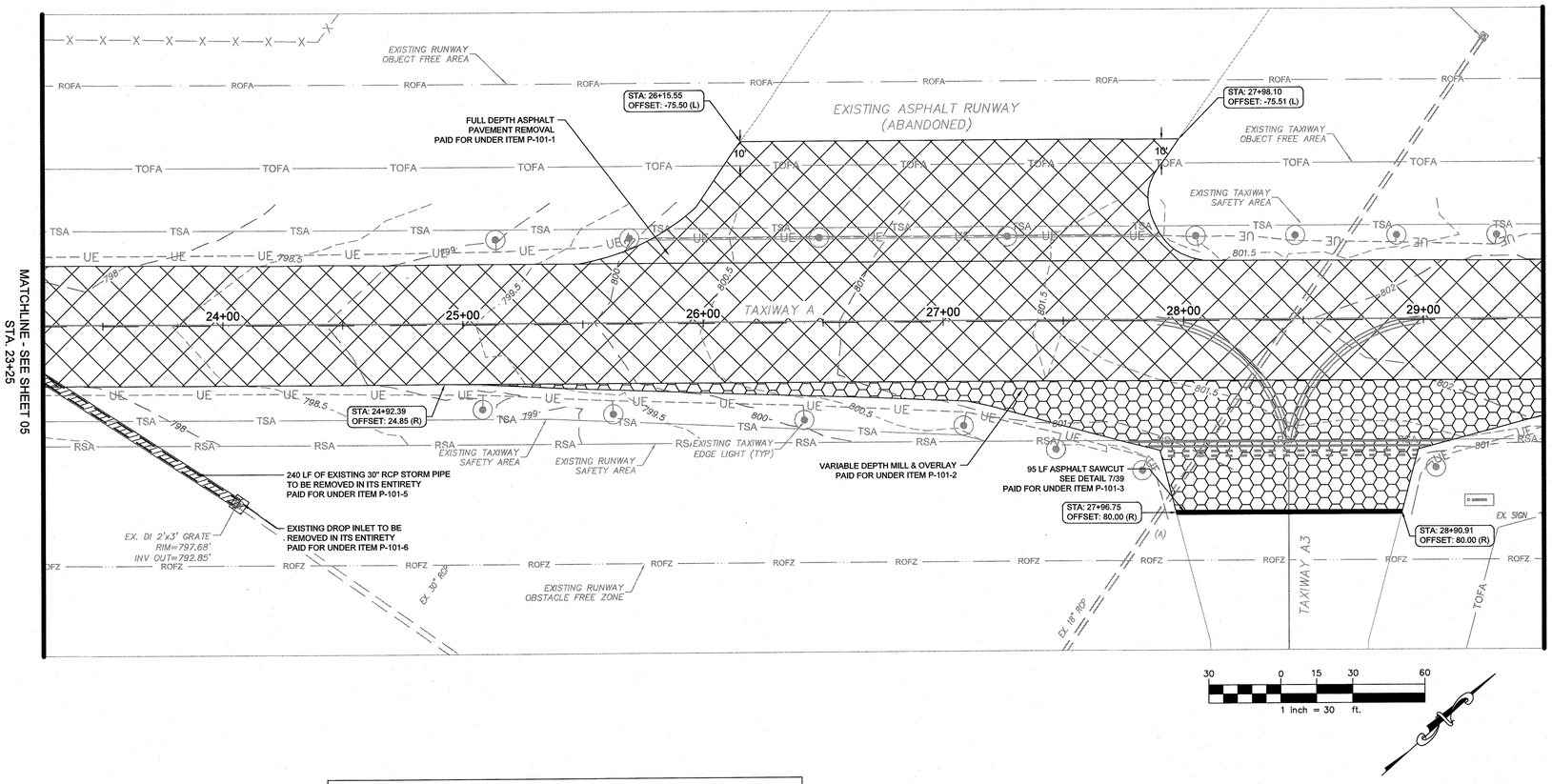
DRAWING TITLE: EXISTING CONDITIONS AND DEMOLITION PLAN

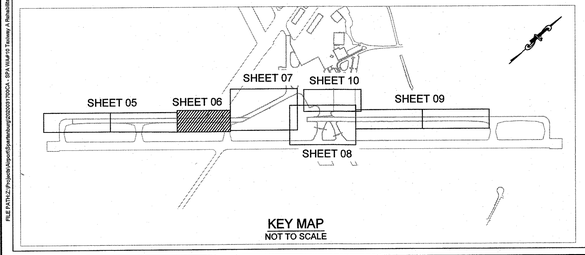
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
05 OF 40
WKD PROJ. NO.:
20200317.00.CA

FILE PATH: C:\Projects\Airport\Spartanburg\20200317.00CA - SPA Mast 6 Taxiway A Rehab\Basin\CAD\Plan Set\Sheet Plans\ - EX CONDI AND DEMO PLAN.dwg, Dynamic Input Dimensions=0, 20200317.00CA - SPA Mast 6 Taxiway A Rehab\Basin\CAD\Plan Set\Sheet Plans\ - EX CONDI AND DEMO PLAN.dwg, 4/30/2021 11:10:58 AM

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR REVISIONS THERETO, IN ANY FORM OR BY ANY MEANS WHATSOEVER, WITHOUT THE EXPRESS WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. ANY UNAUTHORIZED USE OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO W.K. DICKSON & CO., INC. AND THE USER SHALL INDEMNIFY AND HOLD W.K. DICKSON & CO., INC. HARMLESS FROM AND AGAINST ANY AND ALL LOSS, DAMAGE, AND EXPENSE ARISING FROM OR IN ANY WAY RELATED TO SUCH UNAUTHORIZED USE. UNAUTHORIZED USE OF THIS DOCUMENT INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: IF ANY ELECTRONIC FILES OF THIS DOCUMENT ARE PROVIDED, ANY MODIFICATION OF THE INFORMATION CONTAINED THEREIN; REMOVAL OF THIS NOTICE FROM ANY COPY OF THE DOCUMENT OR ANY FILES; AND FAILURE TO INCLUDE THIS NOTICE ON ANY PRINTED COPY OF THE DOCUMENT OR ANY FILES. IF ELECTRONIC FILES OF THIS DOCUMENT ARE PROVIDED, THE ORIGINAL CAD FILES DOCUMENTS VARIFIED WITH PAPER ORIGINALS SIGNED AND SEALED SHALL BE CONSIDERED TO BE VALID AND THE CORRECT INFORMATION. IN THE EVENT OF ANY DISCREPANCY BETWEEN ELECTRONIC FILES AND PAPER ORIGINALS, THE PAPER ORIGINALS SHALL BE CONSIDERED TO BE VALID AND THE CORRECT INFORMATION.





KEY MAP
NOT TO SCALE

LEGEND

- RSA — EXISTING RUNWAY SAFETY AREA
- ROFA — EXISTING RUNWAY OBJECT FREE AREA
- ROFZ — EXISTING RUNWAY OBSTACLE FREE ZONE
- TSA — EXISTING TAXIWAY SAFETY AREA
- TOFA — EXISTING TAXIWAY OBJECT FREE AREA
- PROPOSED FULL DEPTH PAVEMENT REMOVAL
- PROPOSED VARIABLE DEPTH MILL (SEE DETAIL 7/39)
- PROPOSED CONCRETE REMOVAL
- PROPOSED PAVEMENT MARKING REMOVAL
- PROPOSED STORM SEWER REMOVAL
- EXISTING TAXIWAY EDGE LIGHTS
- EXISTING RUNWAY EDGE LIGHTS

EXISTING CONDITION & DEMOLITION NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. EXISTING FEATURES NOT SHOWN TO BE REMOVED SHALL BE PROTECTED BY THE CONTRACTOR. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND OWNER, AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ITEMS SHOWN FOR DEMOLITION AND REMOVAL IN A SAFE AND LEGAL MANNER OFF AIRPORT PROPERTY, UNLESS NOTED OTHERWISE.
4. ANY DAMAGE TO THE EXISTING STORM SEWER SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. FULL DEPTH CONCRETE OR ASPHALT PAVEMENT REMOVAL SHALL BE PAID PER SQUARE YARD UNDER ITEM P-101-1.
6. VARIABLE DEPTH MILLING OF ASPHALT PAVEMENT SHALL BE PAID PER SQUARE YARD UNDER ITEM P-101-2.
7. WHERE NEW PAVEMENT ADJOINS EXISTING PAVEMENT, SAW CUT EXISTING PAVEMENT FULL DEPTH TO A NEAT, VERTICAL EDGE PRIOR TO PAVING. SAW CUTTING SHALL BE PAID PER LINEAR FOOT UNDER ITEM P-101-3.
8. THERE WILL BE NO ADDITIONAL PAYMENT FOR THE REMOVAL OF PAVEMENT MARKINGS WITHIN THE LIMITS OF PAVEMENT REMOVAL OR MILLING.
9. EXISTING PAVEMENT MARKINGS TO BE REMOVED, OUTSIDE THE LIMITS OF PAVEMENT REMOVAL OR MILLING, SHALL BE PAID PER SQUARE FOOT UNDER ITEM P-101-4.
10. REMOVAL OF EXISTING DRAINAGE PIPES SHALL BE PAID FOR COMPLETE UNDER ITEM P-101-5. THIS PAY ITEM INCLUDES EXCAVATION NEEDED TO REMOVE THE PIPE, REMOVAL OF THE PIPE AND BACKFILL MATERIAL, AND DISPOSAL.
11. REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE PAID COMPLETE UNDER ITEM P-101-6. PAY ITEM INCLUDES EXCAVATION NEEDED, REMOVAL OF THE STRUCTURE AND FOUNDATIONS OF BACKFILL MATERIAL AND DISPOSAL.
12. SEE THE ELECTRIC LIGHTING DEMOLITION PLAN (COMPLETED BY OTHERS) FOR DEMOLITION OF EXISTING LIGHTS, SIGNS, AND OTHER ELECTRICAL ITEMS.

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRMINGHAM
4-20-2021
PROFESSIONAL SEAL

REVISION RECORD

NO.	DESCRIPTION	BY	DATE

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: EXISTING CONDITIONS AND DEMOLITION PLAN

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

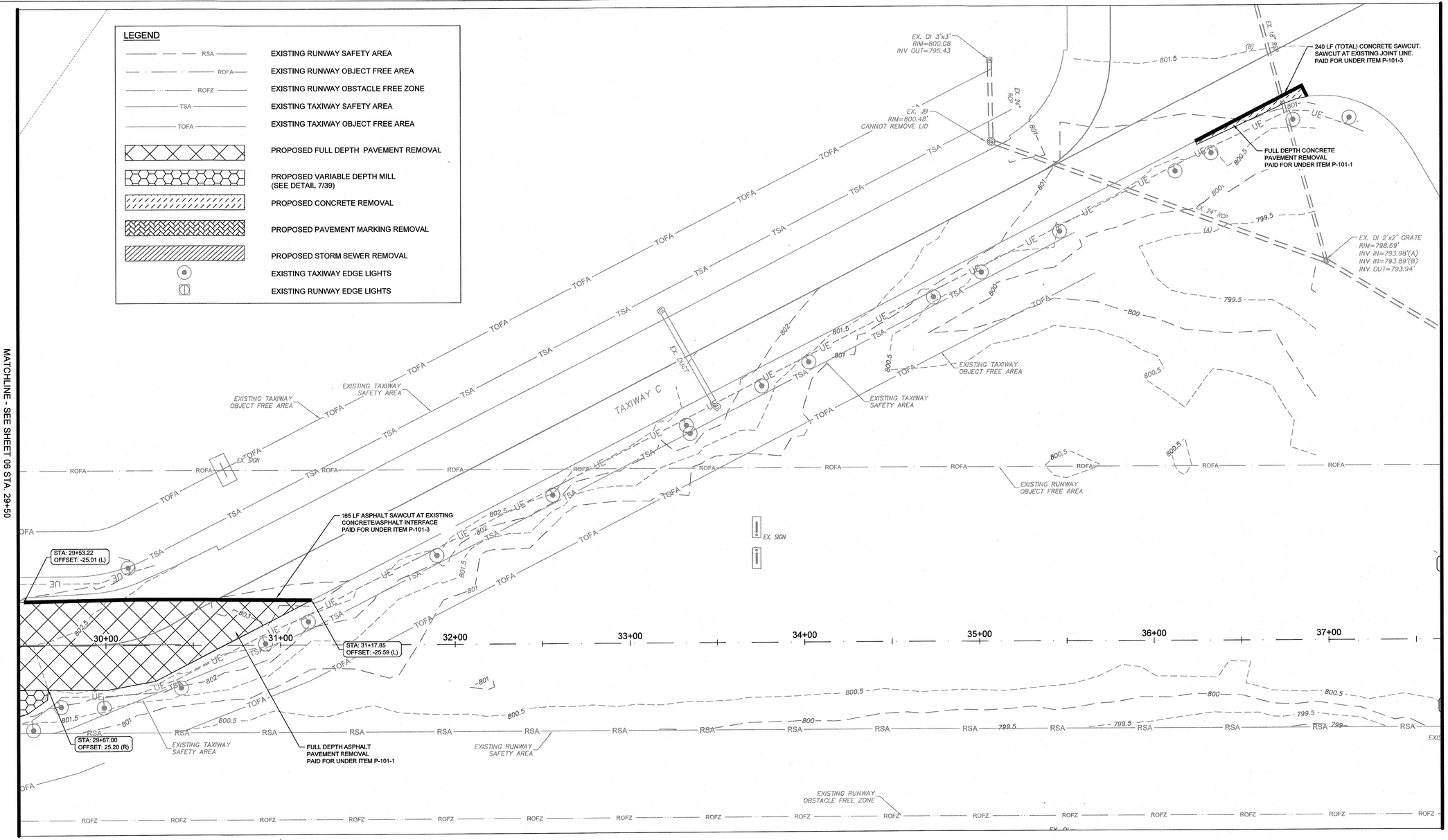
DRAWING NUMBER:
06 OF 40
WKD PROJ. NO.:
20200317.00.CA

FILE PATH:Z:\Projects\Spartanburg\20200317.00\CA - SPX Work\1 Taxiway A Rehabilitation\CAD\Plan Set\Sheet Files\01 ES CONS AND DEMO PLAN.dwg,C:\Users\bmccord\Desktop\20200317.00CA - SPX Work\1 Taxiway A Rehabilitation\CAD\Plan Set\Sheet Files\01 ES CONS AND DEMO PLAN.dwg,4/20/2021 11:10:19 AM

COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENT OF THE DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENT OF THE DOCUMENT BY ANY METHOD, ELECTRONIC OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. THIS DOCUMENT IS FOR THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID, TRUE COPIES.

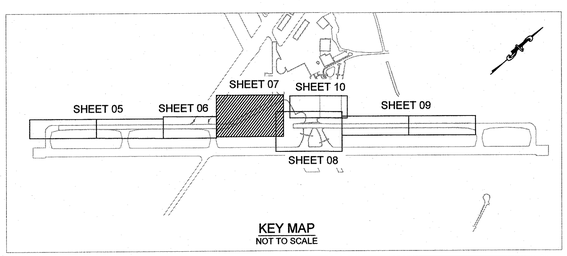
LEGEND

- RSA — EXISTING RUNWAY SAFETY AREA
- ROFA — EXISTING RUNWAY OBJECT FREE AREA
- ROFZ — EXISTING RUNWAY OBSTACLE FREE ZONE
- TSA — EXISTING TAXIWAY SAFETY AREA
- TOFA — EXISTING TAXIWAY OBJECT FREE AREA
- PROPOSED FULL DEPTH PAVEMENT REMOVAL
- PROPOSED VARIABLE DEPTH MILL (SEE DETAIL 7/39)
- PROPOSED CONCRETE REMOVAL
- PROPOSED PAVEMENT MARKING REMOVAL
- PROPOSED STORM SEWER REMOVAL
- EXISTING TAXIWAY EDGE LIGHTS
- EXISTING RUNWAY EDGE LIGHTS



30 0 15 30 60

1 inch = 30 ft.



KEY MAP
NOT TO SCALE

EXISTING CONDITION & DEMOLITION NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. EXISTING FEATURES NOT SHOWN TO BE REMOVED SHALL BE PROTECTED BY THE CONTRACTOR. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND OWNER, AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ITEMS SHOWN FOR DEMOLITION AND REMOVAL IN A SAFE AND LEGAL MANNER OFF AIRPORT PROPERTY, UNLESS NOTED OTHERWISE.
4. ANY DAMAGE TO THE EXISTING STORM SEWER SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. FULL DEPTH CONCRETE OR ASPHALT PAVEMENT REMOVAL SHALL BE PAID PER SQUARE YARD UNDER ITEM P-101-1.
6. VARIABLE DEPTH MILLING OF ASPHALT PAVEMENT SHALL BE PAID PER SQUARE YARD UNDER ITEM P-101-2.
7. WHERE NEW PAVEMENT ADJOINS EXISTING PAVEMENT, SAW CUT EXISTING PAVEMENT FULL DEPTH TO A NEAT, VERTICAL EDGE PRIOR TO PAVING. SAW CUTTING SHALL BE PAID PER LINEAR FOOT UNDER ITEM P-101-3.
8. THERE WILL BE NO ADDITIONAL PAYMENT FOR THE REMOVAL OF PAVEMENT MARKINGS WITHIN THE LIMITS OF PAVEMENT REMOVAL OR MILLING.
9. EXISTING PAVEMENT MARKINGS TO BE REMOVED, OUTSIDE THE LIMITS OF PAVEMENT REMOVAL OR MILLING, SHALL BE PAID PER SQUARE FOOT UNDER ITEM P-101-4.
10. REMOVAL OF EXISTING DRAINAGE PIPES SHALL BE PAID FOR COMPLETE UNDER ITEM P-101-5. THIS PAY ITEM INCLUDES EXCAVATION NEEDED TO REMOVE THE PIPE, REMOVAL OF THE PIPE AND BACKFILL MATERIAL, AND DISPOSAL.
11. REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE PAID COMPLETE UNDER ITEM P-101-6. PAY ITEM INCLUDES EXCAVATION NEEDED, REMOVAL OF THE STRUCTURE AND FOUNDATIONS OF BACKFILL MATERIAL AND DISPOSAL.
12. SEE THE ELECTRIC LIGHTING DEMOLITION PLAN (COMPLETED BY OTHERS) FOR DEMOLITION OF EXISTING LIGHTS, SIGNS, AND OTHER ELECTRICAL ITEMS.

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31406
CHRISTOPHER J. BIRMINGHAM
12-22-2021
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT
SPARTANBURG, SC

DRAWING TITLE: EXISTING CONDITIONS AND DEMOLITION PLAN

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
07 OF 40
WKD PROJ. NO.:
20200317.00.CA

Plotted: 12/22/2021 11:03:58 AM By: MICHAEL ABSHIRE
File: P:\WKD Projects\projects\projects\2020\20200317.00\CA - SPA Muni 3 Taxiway A Rehabilitation\CAD\Plan Sheets\Phase 02 CONS_MEP DEMO PLAN.dwg

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, WHETHER IN WHOLE OR IN PART, BY ANY MEANS WITHOUT THE EXPRESS WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ANY UNAUTHORIZED USE OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO W.K. DICKSON & CO., INC. AND ITS OFFICERS, AGENTS AND EMPLOYEES. ANY COPIES MADE FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VALID, TRUE COPIES.

PLOTTED BY: JACHUNG, 4/20/2021 11:15:48 AM
FILE PATH: Z:\Projects\Airports\Spartanburg\20200317.00CA - SPA H&R II Taxiway A Rehabilitation\CAD\Plan Set\Sheet Files\19 - 20 COVID AND DEMO PLAN.dwg, JACHUNG, 4/20/2021 11:15:48 AM

MATCHLINE - SEE SHEET 10

MATCHLINE - SEE SHEET 07
STA. 37+50

MATCHLINE - SEE SHEET 09
STA. 44+50

STA: 37+97.54
OFFSET: -24.88 (L)

STA: 38+42.40
OFFSET: -25.03 (L)

STA: 37+97.90
OFFSET: 25.10 (R)

STA: 38+83.24
OFFSET: 25.35 (R)

STA: 41+35.39
OFFSET: -25.22 (L)

STA: 41+68.84
OFFSET: 25.14 (R)

38+00 39+00 40+00 41+00 42+00 43+00 44+00

TAXIWAY A

EXISTING RUNWAY SAFETY AREA

EXISTING TAXIWAY SAFETY AREA

EXISTING RUNWAY OBSTACLE FREE ZONE

EXISTING RUNWAY OBJECT FREE AREA

EXISTING TAXIWAY OBJECT FREE AREA

EX. DI 2'x2' GRATE
RIM=797.83'
INV IN=792.43'(A)
INV IN=792.73'(B)
INV OUT=792.23'

EX. 12" CPP

EX. 30" RCP

EX. JB
RIM=797.06'
CANNOT OPEN LID

FULL DEPTH CONCRETE PAVEMENT REMOVAL
PAID FOR UNDER ITEM P-101-1

150 LF OF EXISTING 30" RCP STORM PIPE
TO BE REMOVED IN ITS ENTIRETY
PAID FOR UNDER ITEM P-101-5

FULL DEPTH ASPHALT
PAVEMENT REMOVAL
PAID FOR UNDER ITEM P-101-1

EXISTING JUNCTION BOX TO
BE REMOVED IN ITS ENTIRETY
PAID FOR UNDER ITEM P-101-6

150 LF OF EXISTING 12" RCP STORM PIPE
TO BE REMOVED IN ITS ENTIRETY
PAID FOR UNDER ITEM P-101-5

EX. DI 2'X2'
RIM=798.94'
INV OUT=796.94'

EXISTING DROP INLET TO BE
REMOVED IN ITS ENTIRETY
PAID FOR UNDER ITEM P-101-6

EX. 14" RCP

EX. JB
RIM=798.56'
INV IN=794.26'(A)
INV IN=790.61'(B)
INV OUT=790.51'

EXISTING TAXIWAY
EDGE LIGHT (TYP)

EXISTING RUNWAY
OBSTACLE FREE ZONE

2220 SY FULL DEPTH ASPHALT
PAVEMENT REMOVAL
PAID FOR UNDER ITEM P-101-1

402 LF OF EXISTING 24" RCP STORM PIPE
TO BE REMOVED IN ITS ENTIRETY
PAID FOR UNDER ITEM P-101-5

152 LF OF EXISTING 18" RCP STORM PIPE
TO BE REMOVED IN ITS ENTIRETY
PAID FOR UNDER ITEM P-101-5

EXISTING DROP INLET TO BE
REMOVED IN ITS ENTIRETY
PAID FOR UNDER ITEM P-101-6

EX. DI 2'x3' GRATE
RIM=796.04'
INV OUT=792.50'

1936 SY FULL DEPTH ASPHALT
PAVEMENT REMOVAL
PAID FOR UNDER ITEM P-101-1

EXISTING DROP INLET TO BE
REMOVED IN ITS ENTIRETY
PAID FOR UNDER ITEM P-101-6

EX. DI 2' DIA.
RIM=799.43'
INV OUT=793.95'

1875 SF PAVEMENT MARKING REMOVAL
OF EXISTING RUNWAY EDGE LINE
PAID FOR UNDER ITEM P-101-4

STA: 38+38.45
OFFSET: 251.50 (R)

STA: 39+23.04
OFFSET: 251.50 (R)

STA: 39+95.39
OFFSET: 251.46 (R)

STA: 41+04.43
OFFSET: 251.50 (R)

STA: 41+84.94
OFFSET: 251.50 (R)

STA: 42+17.14
OFFSET: 251.50 (R)

STA: 42+69.46
OFFSET: 251.50 (R)

STA: 44+62.00
OFFSET: 251.50 (R)

EXISTING RUNWAY
EDGE LIGHT, TYP.

143 SF PAVEMENT MARKING REMOVAL
PAID FOR UNDER ITEM P-101-4

160 LF ASPHALT SAWCUT
SEE DETAIL 1/39
PAID FOR UNDER ITEM P-101-3

143 SF PAVEMENT MARKING REMOVAL
PAID FOR UNDER ITEM P-101-4

143 SF PAVEMENT MARKING REMOVAL
PAID FOR UNDER ITEM P-101-4

165 LF ASPHALT SAWCUT
SEE DETAIL 1/39
PAID FOR UNDER ITEM P-101-3

RUNWAY 5-23

STA: 36+54.86
OFFSET: 295.25 (R)

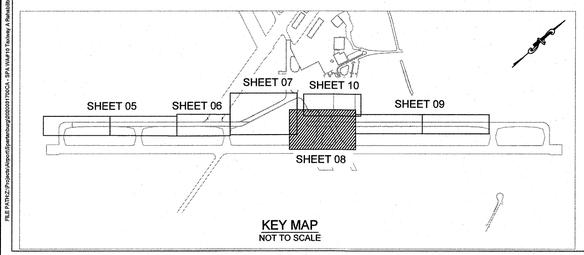
STA: 39+16.76
OFFSET: 295.25 (R)

STA: 44+85.41
OFFSET: 295.25 (R)

CAN NO LIGHT

EX. SIGN

30 0 15 30 60
1 inch = 30 ft.



KEY MAP
NOT TO SCALE

LEGEND

- RSA — EXISTING RUNWAY SAFETY AREA
- ROFA — EXISTING RUNWAY OBJECT FREE AREA
- ROFZ — EXISTING RUNWAY OBSTACLE FREE ZONE
- TSA — EXISTING TAXIWAY SAFETY AREA
- TOFA — EXISTING TAXIWAY OBJECT FREE AREA
- PROPOSED FULL DEPTH PAVEMENT REMOVAL
- PROPOSED VARIABLE DEPTH MILL (SEE DETAIL 7/39)
- PROPOSED CONCRETE REMOVAL
- PROPOSED PAVEMENT MARKING REMOVAL
- PROPOSED STORM SEWER REMOVAL
- EXISTING TAXIWAY EDGE LIGHTS
- EXISTING RUNWAY EDGE LIGHTS

EXISTING CONDITION & DEMOLITION NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. EXISTING FEATURES NOT SHOWN TO BE REMOVED SHALL BE PROTECTED BY THE CONTRACTOR. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND OWNER, AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ITEMS SHOWN FOR DEMOLITION AND REMOVAL IN A SAFE AND LEGAL MANNER OFF AIRPORT PROPERTY, UNLESS NOTED OTHERWISE.
4. ANY DAMAGE TO THE EXISTING STORM SEWER SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. FULL DEPTH CONCRETE OR ASPHALT PAVEMENT REMOVAL SHALL BE PAID PER SQUARE YARD UNDER ITEM P-101-1.
6. VARIABLE DEPTH MILLING OF ASPHALT PAVEMENT SHALL BE PAID PER SQUARE YARD UNDER ITEM P-101-2.
7. WHERE NEW PAVEMENT ADJOINS EXISTING PAVEMENT, SAW CUT EXISTING PAVEMENT FULL DEPTH TO A NEAT, VERTICAL EDGE PRIOR TO PAVING. SAW CUTTING SHALL BE PAID PER LINEAR FOOT UNDER ITEM P-101-3.
8. THERE WILL BE NO ADDITIONAL PAYMENT FOR THE REMOVAL OF PAVEMENT MARKINGS WITHIN THE LIMITS OF PAVEMENT REMOVAL OR MILLING.
9. EXISTING PAVEMENT MARKINGS TO BE REMOVED, OUTSIDE THE LIMITS OF PAVEMENT REMOVAL OR MILLING, SHALL BE PAID PER SQUARE FOOT UNDER ITEM P-101-4.
10. REMOVAL OF EXISTING DRAINAGE PIPES SHALL BE PAID FOR COMPLETE UNDER ITEM P-101-5. THIS PAY ITEM INCLUDES EXCAVATION NEEDED TO REMOVE THE PIPE, REMOVAL OF THE PIPE AND BACKFILL MATERIAL, AND DISPOSAL.
11. REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE PAID COMPLETE UNDER ITEM P-101-6. PAY ITEM INCLUDES EXCAVATION NEEDED, REMOVAL OF THE STRUCTURE AND FOUNDATIONS OF BACKFILL MATERIAL AND DISPOSAL.
12. SEE THE ELECTRIC LIGHTING DEMOLITION PLAN (COMPLETED BY OTHERS) FOR DEMOLITION OF EXISTING LIGHTS, SIGNS, AND OTHER ELECTRICAL ITEMS.

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA
W. K. DICKSON & COMPANY, INC.
No. C00177
CERTIFICATE OF AUTHORIZATION
C.O.A.

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRKMEYER
4-20-21
PROFESSIONAL SEAL

NO.	DATE	DESCRIPTION	BY

REVISION RECORD

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

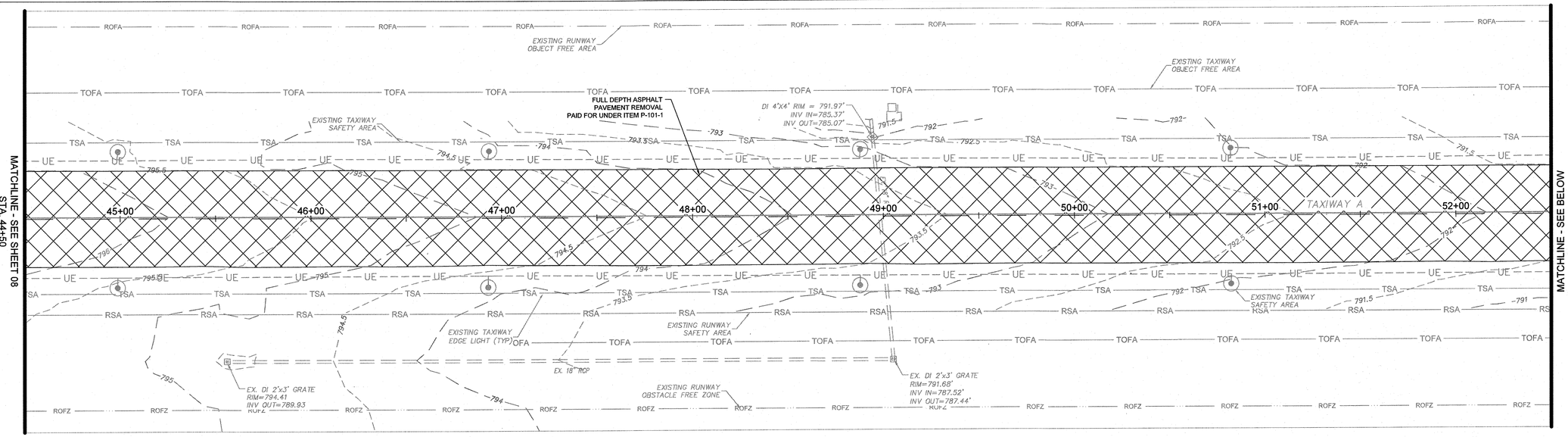
DRAWING TITLE: EXISTING CONDITIONS AND DEMOLITION PLAN

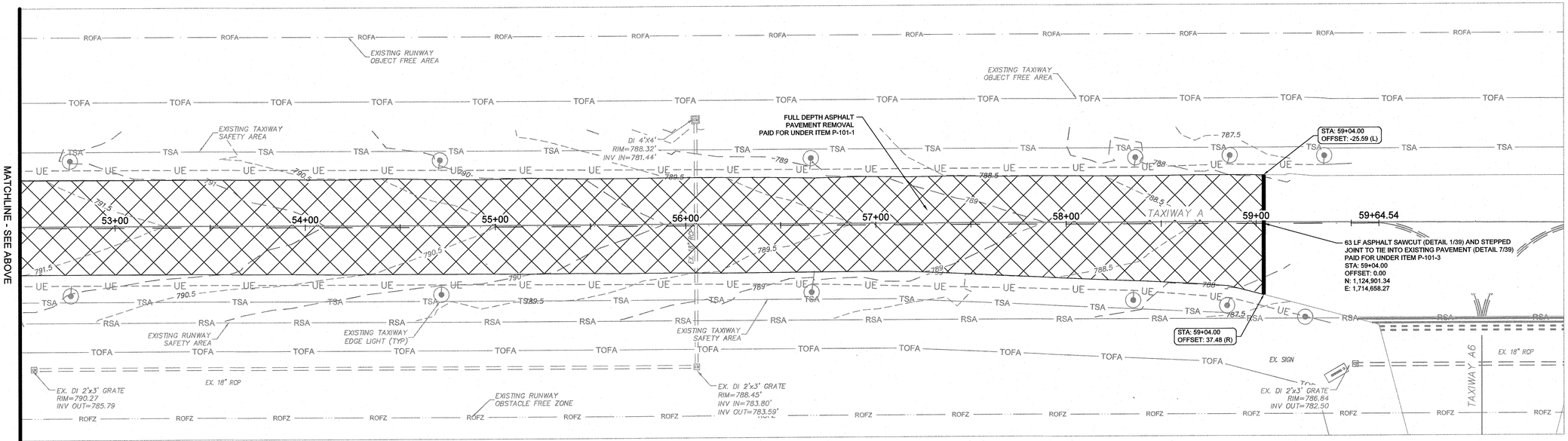
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
08 OF 40

WKD PROJ. NO.:
20200317.00.CA

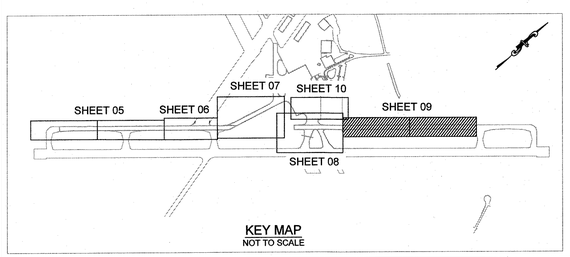
COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENT OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENT OF THIS DOCUMENT BY METHODS OTHER THAN THE AUTHOR OF THIS DOCUMENT IS PROHIBITED. REPRODUCTION OF THIS DOCUMENT OR ANY PORTION THEREOF WITHOUT THE WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ANY UNAUTHORIZED USE OF THE CONTENTS OF THIS DOCUMENT WITHOUT THE EXPRESS WRITTEN CONSENT OF W.K. DICKSON & CO., INC. SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO W.K. DICKSON & CO., INC. ANY RECIPIENT OF THIS DOCUMENT, BY THEIR ACCEPTANCE OR USE OF THIS DOCUMENT, AGREES TO HOLD HARMLESS AND INDEMNIFY W.K. DICKSON & CO., INC. FOR ANY AND ALL CLAIMS, LOSSES, COSTS, AND EXPENSES ARISING FROM THE UNAUTHORIZED USE OF THE CONTENTS OF THIS DOCUMENT. ADDITIONS OR DELETIONS TO THE CONTENTS OF THIS DOCUMENT BY METHODS OTHER THAN THE AUTHOR OF THIS DOCUMENT OR ANY REPRODUCTIONS OF THIS DOCUMENT NOT BEARING THE ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VOID. TRUE COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE TRUE COPIES.





30 0 15 30 60

1 inch = 30 ft.



KEY MAP
NOT TO SCALE

LEGEND

RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
ROFZ	EXISTING RUNWAY OBSTACLE FREE ZONE
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
	PROPOSED FULL DEPTH PAVEMENT REMOVAL
	PROPOSED VARIABLE DEPTH MILL (SEE DETAIL 7/39)
	PROPOSED CONCRETE REMOVAL
	PROPOSED PAVEMENT MARKING REMOVAL
	PROPOSED STORM SEWER REMOVAL
	EXISTING TAXIWAY EDGE LIGHTS
	EXISTING RUNWAY EDGE LIGHTS

EXISTING CONDITION & DEMOLITION NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. EXISTING FEATURES NOT SHOWN TO BE REMOVED SHALL BE PROTECTED BY THE CONTRACTOR. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND OWNER, AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ITEMS SHOWN FOR DEMOLITION AND REMOVAL IN A SAFE AND LEGAL MANNER OFF AIRPORT PROPERTY, UNLESS NOTED OTHERWISE.
4. ANY DAMAGE TO THE EXISTING STORM SEWER SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. FULL DEPTH CONCRETE OR ASPHALT PAVEMENT REMOVAL SHALL BE PAID PER SQUARE YARD UNDER ITEM P-101-1.
6. VARIABLE DEPTH MILLING OF ASPHALT PAVEMENT SHALL BE PAID PER SQUARE YARD UNDER ITEM P-101-2.
7. WHERE NEW PAVEMENT ADJOINS EXISTING PAVEMENT, SAW CUT EXISTING PAVEMENT FULL DEPTH TO A NEAT, VERTICAL EDGE PRIOR TO PAVING. SAW CUTTING SHALL BE PAID PER LINEAR FOOT UNDER ITEM P-101-3.
8. THERE WILL BE NO ADDITIONAL PAYMENT FOR THE REMOVAL OF PAVEMENT MARKINGS WITHIN THE LIMITS OF PAVEMENT REMOVAL OR MILLING.
9. EXISTING PAVEMENT MARKINGS TO BE REMOVED, OUTSIDE THE LIMITS OF PAVEMENT REMOVAL OR MILLING, SHALL BE PAID PER SQUARE FOOT UNDER ITEM P-101-4.
10. REMOVAL OF EXISTING DRAINAGE PIPES SHALL BE PAID FOR COMPLETE UNDER ITEM P-101-5. THIS PAY ITEM INCLUDES EXCAVATION NEEDED TO REMOVE THE PIPE, REMOVAL OF THE PIPE AND BACKFILL MATERIAL, AND DISPOSAL.
11. REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE PAID COMPLETE UNDER ITEM P-101-6. PAY ITEM INCLUDES EXCAVATION NEEDED, REMOVAL OF THE STRUCTURE AND FOUNDATIONS OF BACKFILL MATERIAL AND DISPOSAL.
12. SEE THE ELECTRIC LIGHTING DEMOLITION PLAN (COMPLETED BY OTHERS) FOR DEMOLITION OF EXISTING LIGHTS, SIGNS, AND OTHER ELECTRICAL ITEMS.

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BLANKENSHIP
PROFESSIONAL SEAL

NO.	DATE	DESCRIPTION	BY

REVISION RECORD

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

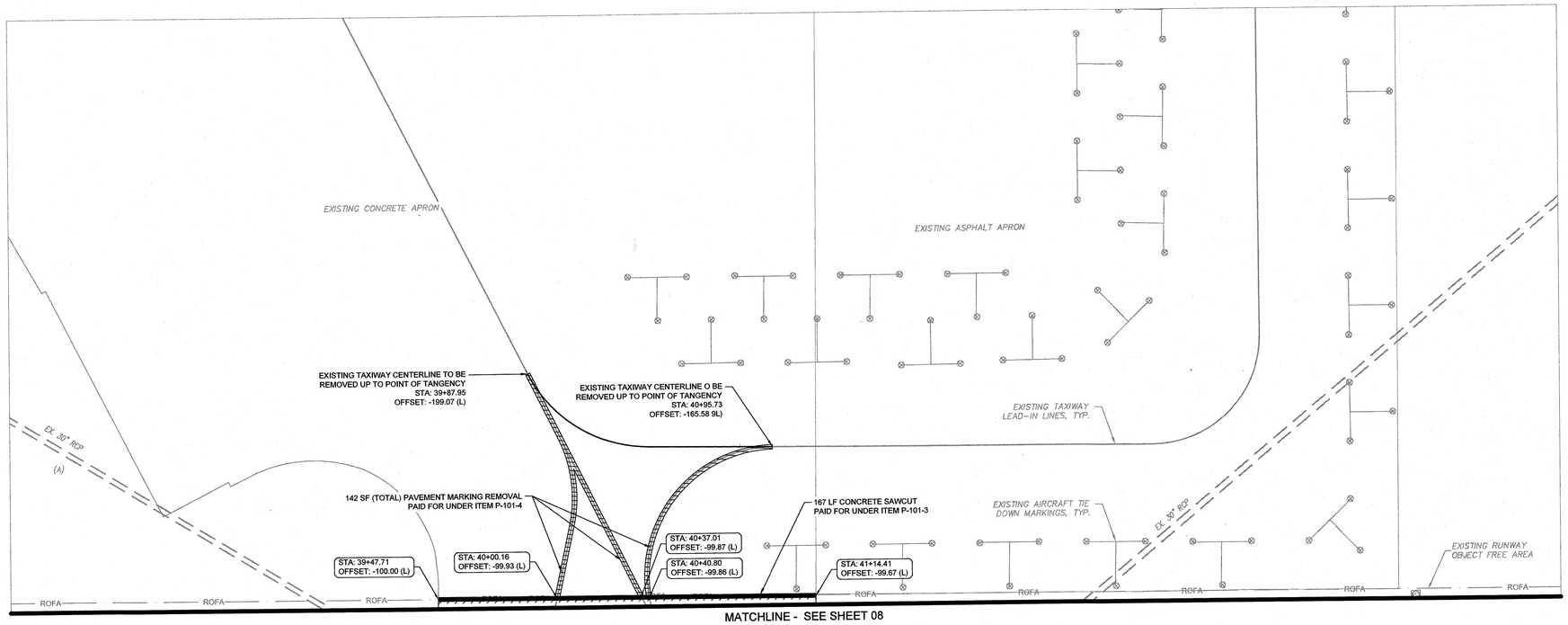
DRAWING TITLE: EXISTING CONDITIONS AND DEMOLITION PLAN

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
09 OF 40
WKD PROJ. NO.:
20200317.00.CA

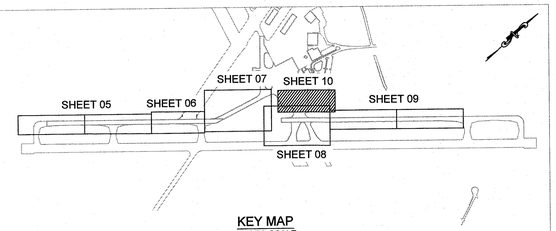
FILE:K:\Projects\Airports\Spartanburg\20200317\DGN - SPA MAP 61 Taxiway A Rehabilitation\CAD\Plan Set\Sheet Files\01 - EX COND AND DEMO Plan.dwg, A-PLAN-Reg2, Printed by: Klynn\Spartanburg\20200317\DGN - SPA MAP 61 Taxiway A Rehabilitation\CAD\Plan Set\Sheet Files\01 - EX COND AND DEMO Plan.dwg, 4/28/2021 11:10:07 AM

COPYRIGHT © W.K.DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENT OF THIS DOCUMENT, ADDITIONS OR ALTERATIONS BY ANY METHOD, ELECTRONIC OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. ANY REPRODUCTION OR ALTERATION MUST BE CLEARLY MARKED WITH ANY ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE NULL AND VOID.



MATCHLINE - SEE SHEET 08

30 0 15 30 60
1 inch = 30 ft.



KEY MAP
NOT TO SCALE

LEGEND

RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
ROFZ	EXISTING RUNWAY OBSTACLE FREE ZONE
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
	PROPOSED FULL DEPTH PAVEMENT REMOVAL
	PROPOSED VARIABLE DEPTH MILL (SEE DETAIL 7/39)
	PROPOSED CONCRETE REMOVAL
	PROPOSED PAVEMENT MARKING REMOVAL
	PROPOSED STORM SEWER REMOVAL
	EXISTING TAXIWAY EDGE LIGHTS
	EXISTING RUNWAY EDGE LIGHTS

EXISTING CONDITION & DEMOLITION NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. EXISTING FEATURES NOT SHOWN TO BE REMOVED SHALL BE PROTECTED BY THE CONTRACTOR. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND OWNER, AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ITEMS SHOWN FOR DEMOLITION AND REMOVAL IN A SAFE AND LEGAL MANNER OFF AIRPORT PROPERTY, UNLESS NOTED OTHERWISE.
4. ANY DAMAGE TO THE EXISTING STORM SEWER SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. FULL DEPTH CONCRETE OR ASPHALT PAVEMENT REMOVAL SHALL BE PAID PER SQUARE YARD UNDER ITEM P-101-1.
6. VARIABLE DEPTH MILLING OF ASPHALT PAVEMENT SHALL BE PAID PER SQUARE YARD UNDER ITEM P-101-2.
7. WHERE NEW PAVEMENT ADJOINS EXISTING PAVEMENT, SAW CUT EXISTING PAVEMENT FULL DEPTH TO A NEAT, VERTICAL EDGE PRIOR TO PAVING. SAW CUTTING SHALL BE PAID PER LINEAR FOOT UNDER ITEM P-101-3.
8. THERE WILL BE NO ADDITIONAL PAYMENT FOR THE REMOVAL OF PAVEMENT MARKINGS WITHIN THE LIMITS OF PAVEMENT REMOVAL OR MILLING.
9. EXISTING PAVEMENT MARKINGS TO BE REMOVED, OUTSIDE THE LIMITS OF PAVEMENT REMOVAL OR MILLING, SHALL BE PAID PER SQUARE FOOT UNDER ITEM P-101-4.
10. REMOVAL OF EXISTING DRAINAGE PIPES SHALL BE PAID FOR COMPLETE UNDER ITEM P-101-5. THIS PAY ITEM INCLUDES EXCAVATION NEEDED TO REMOVE THE PIPE, REMOVAL OF THE PIPE AND BACKFILL MATERIAL, AND DISPOSAL.
11. REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE PAID COMPLETE UNDER ITEM P-101-6. PAY ITEM INCLUDES EXCAVATION NEEDED, REMOVAL OF THE STRUCTURE AND FOUNDATIONS OF BACKFILL MATERIAL AND DISPOSAL.
12. SEE THE ELECTRIC LIGHTING DEMOLITION PLAN (COMPLETED BY OTHERS) FOR DEMOLITION OF EXISTING LIGHTS, SIGNS, AND OTHER ELECTRICAL ITEMS.

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRMELIN
4-20-21
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: EXISTING CONDITIONS AND DEMOLITION PLAN

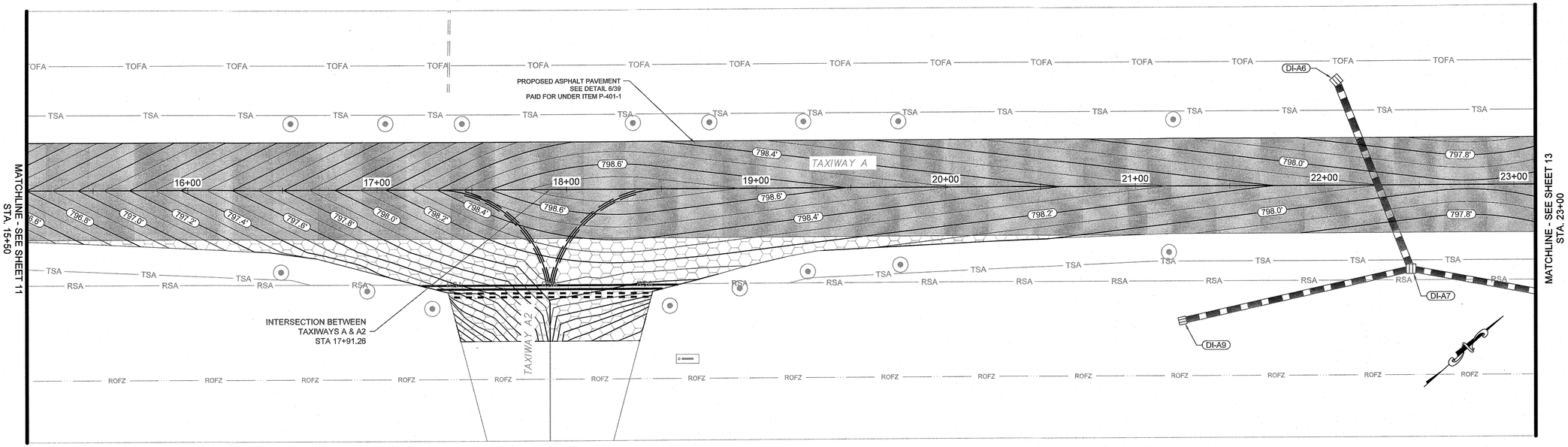
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
10 OF 40
WKD PROJ. NO.:
20200317.00.CA

FILE PATH Z:\Projects\Airport\Spartanburg\20200317\00CA - SPA 18-Apt A Taxiway A Rehabilitation\CAD\Plan Set\Sheet Files\08 - ES COND AND DEMO PLAN.dwg, ACAD R21 (Taxiway A Rehabilitation).ctb, 4/20/2021 11:15:51 AM

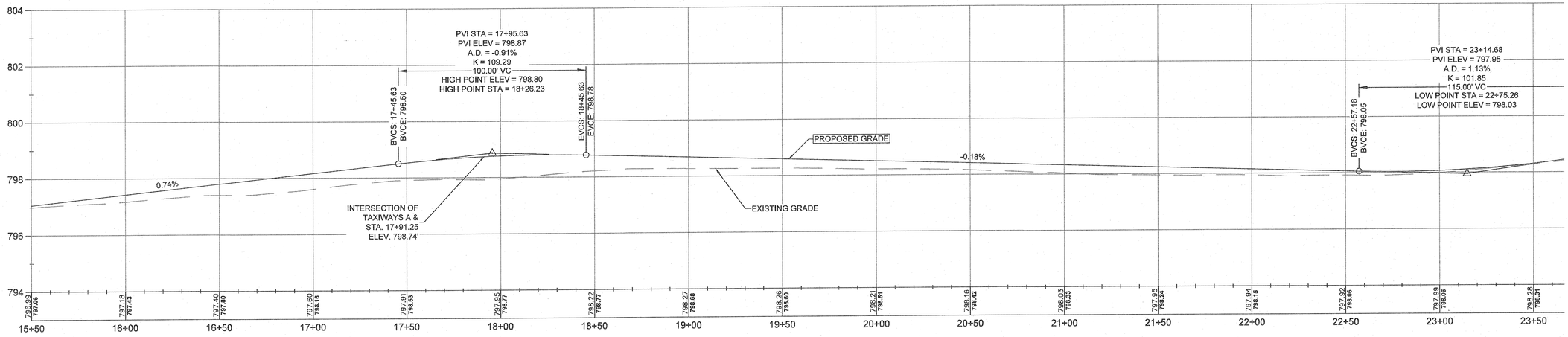
COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENT OF THIS DOCUMENT, ADDITIONS OR REVISIONS TO THE CONTENT OF THIS DOCUMENT, OR ANY PORTION THEREOF, IN ANY FORM OR BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS STRICTLY FORBIDDEN. ANY REPRODUCTION OF THIS DOCUMENT, IN WHOLE OR IN PART, MUST BE CREDITED TO W.K. DICKSON & CO., INC. AND THE ORIGINAL DOCUMENT MUST BE CLEARLY LABELED AS SUCH

COPYRIGHT © 2021 W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION FROM THIS DOCUMENT, ADDITION OR ALTERATION TO THIS DOCUMENT BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. ANY UNAUTHORIZED REPRODUCTION, ADDITION OR ALTERATION WILL BE THE RESPONSIBILITY OF THE PERSON OR ENTITY MAKING THE UNAUTHORIZED REPRODUCTION, ADDITION OR ALTERATION AND SHALL BE CONSIDERED TO BE FALSE, INVALID AND FRAUDULENT. ANY UNAUTHORIZED REPRODUCTION, ADDITION OR ALTERATION WITHOUT THE ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE FALSE, INVALID AND FRAUDULENT.

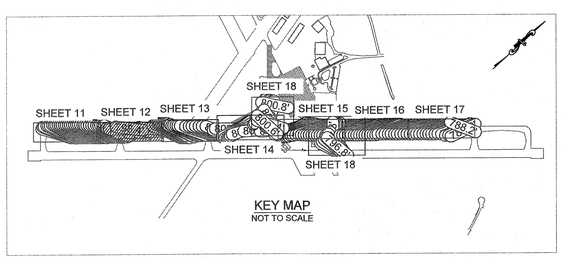


TAXIWAY A: PLAN VIEW
STA. 15+50 TO STA. 23+00
HORIZONTAL SCALE: 1"=30'

30 0 15 30 60
1 inch = 30 ft.



TAXIWAY A: PROFILE VIEW
STA. 15+50 TO STA. 23+00
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=2'



NOTES:
1. ASPHALT PAVEMENT SHALL BE PAID PER TON UNDER ITEM P-401-1.
2. AGGREGATE BASE COURSE SHALL BE PAID PER CUBIC YARD UNDER ITEM P-209-1.
3. PROPOSED CONCRETE PAVEMENT SHALL BE PAID PER SQUARE YARD UNDER P-501-1.
4. SEE GRADING, DRAINAGE AND EROSION CONTROL SHEETS FOR ADDTIONAL GRADING INFORMATION.

LEGEND
- RSA — EXISTING RUNWAY SAFETY AREA
- ROFA — EXISTING RUNWAY OBJECT FREE AREA
- TSA — EXISTING TAXIWAY SAFETY AREA
- TOFA — EXISTING TAXIWAY OBJECT FREE AREA
- TSA — PROPOSED TAXIWAY SAFETY AREA
- TOFA — PROPOSED TAXIWAY OBJECT FREE AREA
- PROPOSED FULL-DEPTH ASPHALT SECTION
- PROPOSED CONCRETE PAVEMENT

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BURMEISTER
12-22-21
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT
SPARTANBURG, SC

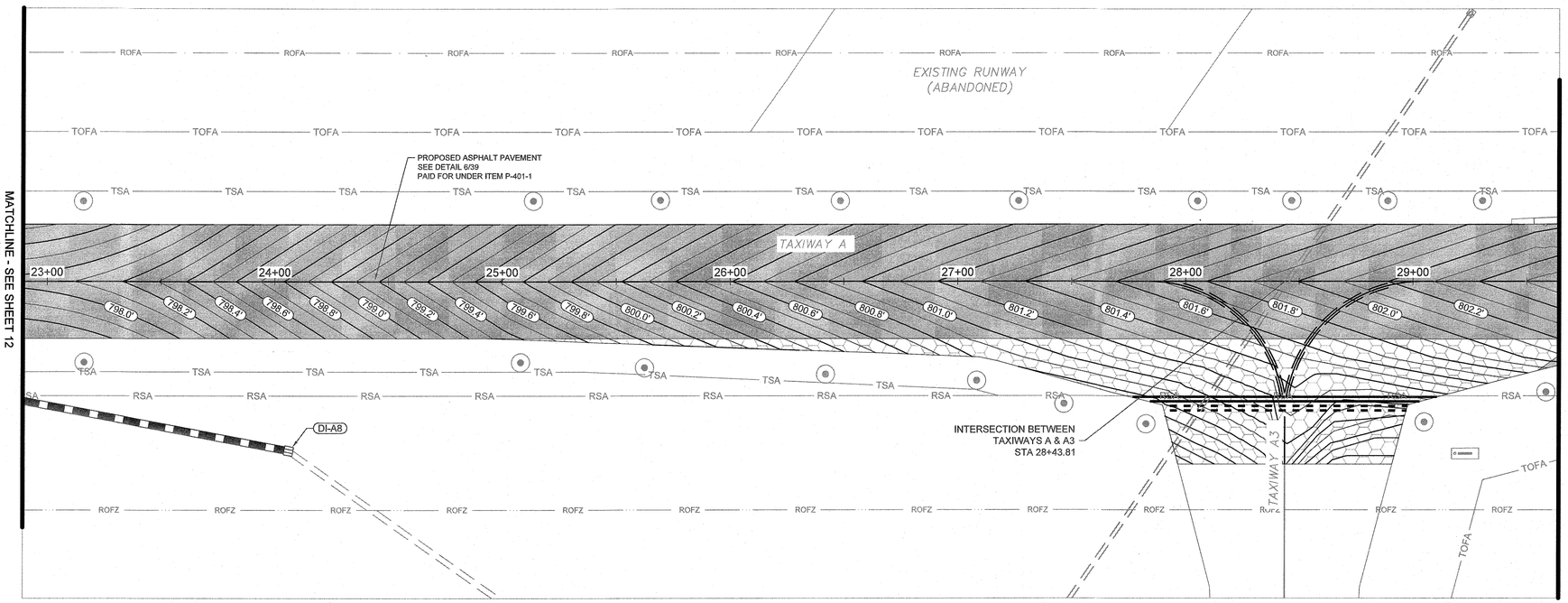
DRAWING TITLE: TAXIWAY A PLAN AND PROFILE STA. 15+50 TO 23+00

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
12 OF 40
WKD PROJ. NO.:
20200317.00.CA

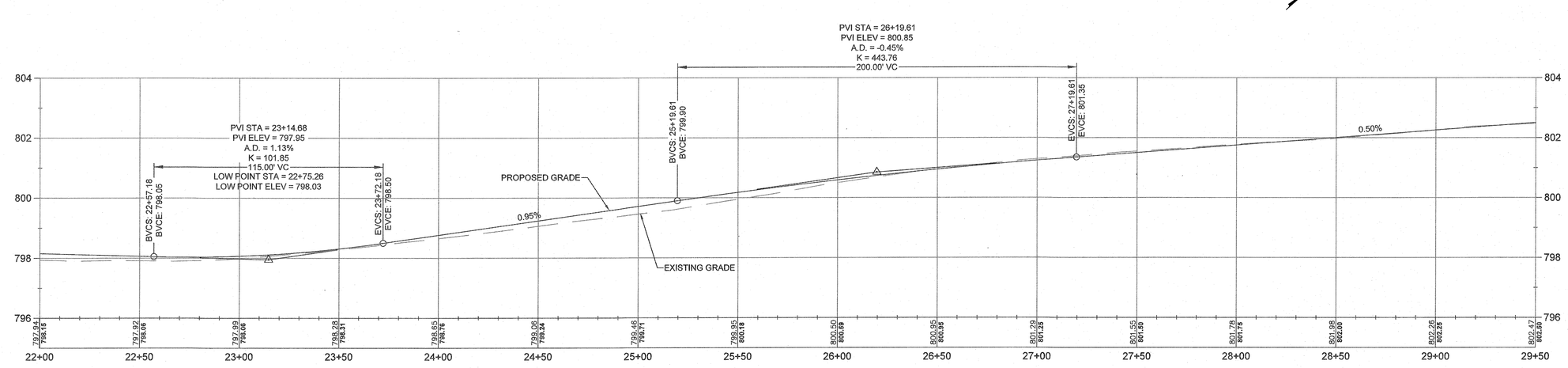
RELEASED:P:\Projects\projects\spartanburg\20200317\00CA - 2019 Maint\ Survey & Mobilization\CAD\The Ballfield Basin - PLAN & PROFILE.dwg, Christopher Burmeister, 12/20/2021 11:14:44 AM

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, AUTHORED OR PREPARED BY W.K. DICKSON & CO., INC., WITHOUT EXPRESS WRITTEN PERMISSION IS PROHIBITED. ANY UNAUTHORIZED REUSE, MODIFICATION, OR ASSIGNMENT WITHOUT EXPRESS WRITTEN CONSENT FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VOID. THE AUTHOR SHALL NOT BE LIABLE FOR ANY DAMAGES RESULTING FROM UNAUTHORIZED REUSE OF THESE PLANS.

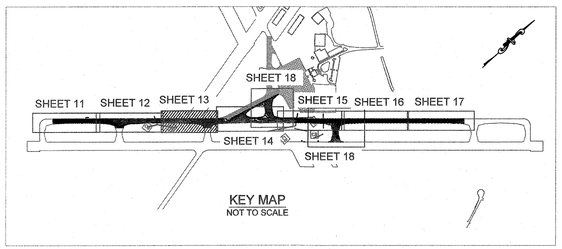


TAXIWAY A: PLAN VIEW
STA. 23+00 TO STA. 29+50
HORIZONTAL SCALE: 1"=30'

30 0 15 30 60
1 inch = 30 ft.



TAXIWAY A: PROFILE VIEW
STA. 23+00 TO STA. 29+50
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=2'



KEY MAP
NOT TO SCALE

NOTES:

1. ASPHALT PAVEMENT SHALL BE PAID PER TON UNDER ITEM P-401-1.
2. AGGREGATE BASE COURSE SHALL BE PAID PER CUBIC YARD UNDER ITEM P-209-1.
3. PROPOSED CONCRETE PAVEMENT SHALL BE PAID PER SQUARE YARD UNDER P-501-1.
4. SEE GRADING, DRAINAGE AND EROSION CONTROL SHEETS FOR ADDTIONAL GRADING INFORMATION.

LEGEND

- RSA — EXISTING RUNWAY SAFETY AREA
- ROFA — EXISTING RUNWAY OBJECT FREE AREA
- TSA — EXISTING TAXIWAY SAFETY AREA
- TOFA — EXISTING TAXIWAY OBJECT FREE AREA
- TSA — PROPOSED TAXIWAY SAFETY AREA
- TOFA — PROPOSED TAXIWAY OBJECT FREE AREA
- PROPOSED FULL-DEPTH ASPHALT SECTION
- PROPOSED CONCRETE PAVEMENT

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC.
No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRMINGHAM
4-22-21
PROFESSIONAL SEAL

REVISION RECORD

NO.	DESCRIPTION	DATE	BY

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: TAXIWAY A PLAN AND PROFILE STA. 23+00 TO 29+50

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

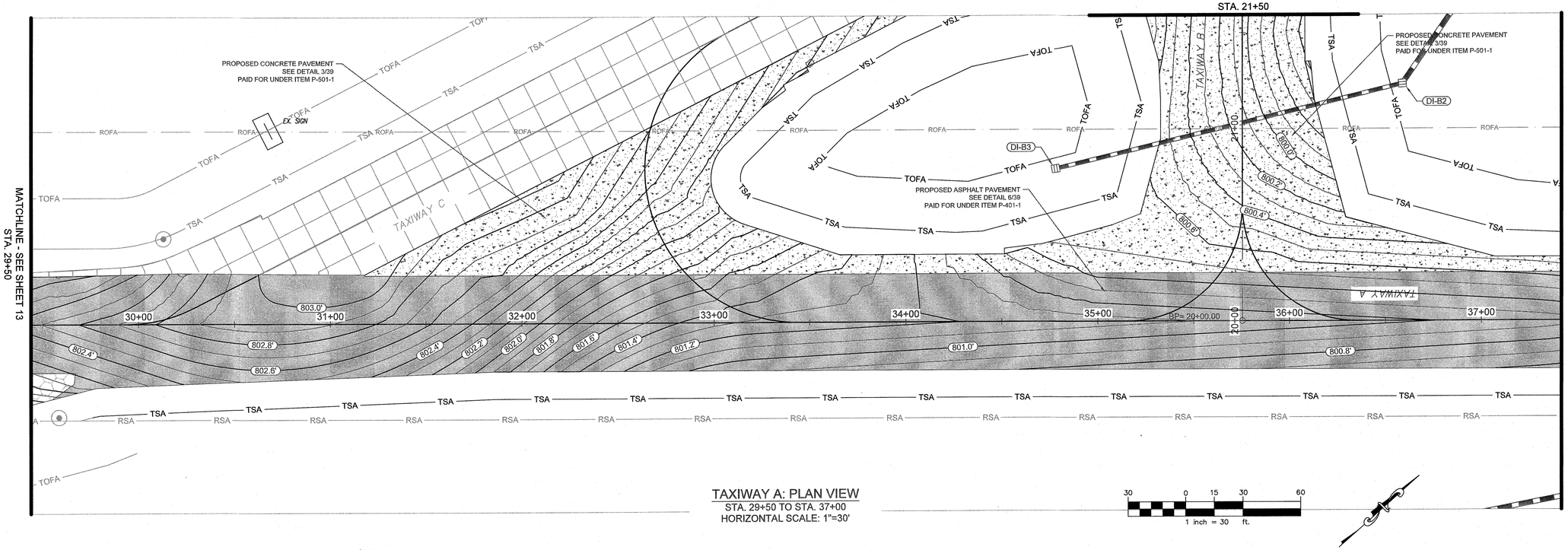
DRAWING NUMBER:
13 OF 40

WKD PROJ. NO.:
20200317.00.CA

FILE PATH: Z:\Projects\Airport\Spartanburg\20200317\00CA - SPA HAR13 Runway 1 Rehabilitation\CAD\Plan Set\Sheet Files\04 - PLAN & PROFILES.dwg, LAYOUT1, 4/22/2021 11:10:54 AM

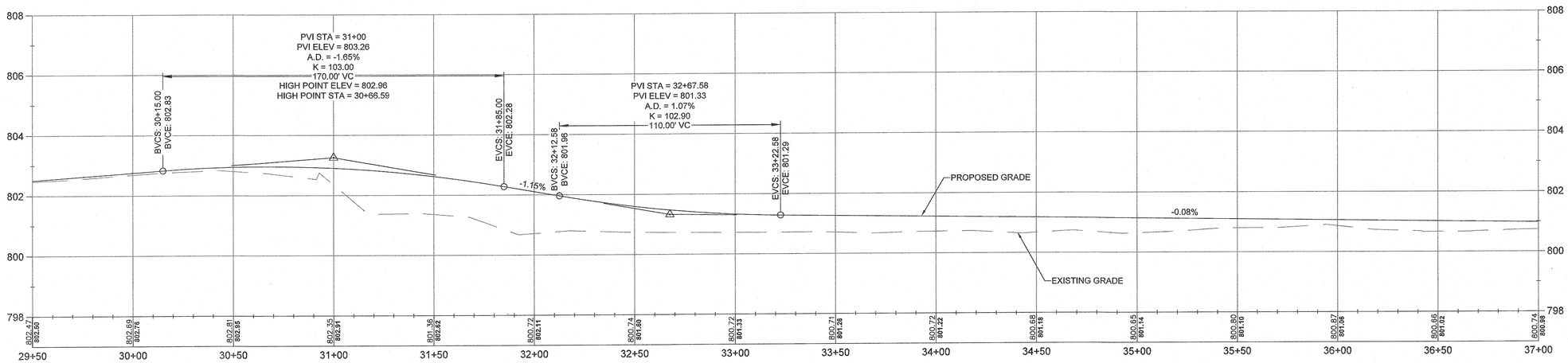
COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENTS OF THIS DOCUMENT BY ANY METHOD, ELECTRONIC OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. ANY DOCUMENT RECEIVED FROM W.K. DICKSON & CO., INC. THAT IS NOT PRINTED ON ORIGINAL SIGNATURE AND SEAL PAPER AND/OR DOES NOT HAVE THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VOID. "WKD CORP.05"

FILE PATH:C:\Projects\Spartanburg\20200317\00CA - SPA HAR-21 Taxiway A Rehabilitation\CAD\Plan Set\Sheet Files\A - PLAN & PROFILE.dwg - PLAN & PROFILE - Layout: 14 - PLAN & PROFILE - User: BMcAlister - Date/Time: 4/20/2021 11:15:59 AM

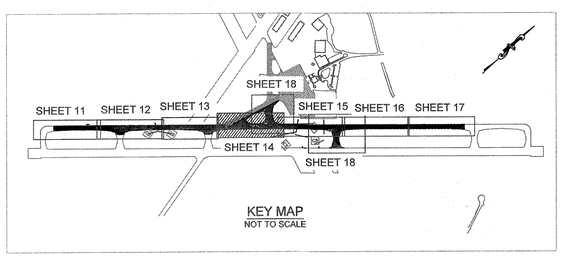


TAXIWAY A: PLAN VIEW
STA. 29+50 TO STA. 37+00
HORIZONTAL SCALE: 1"=30'

30 0 15 30 60
1 inch = 30 ft.



TAXIWAY A: PROFILE VIEW
STA. 29+50 TO STA. 37+00
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=2'



NOTES:

1. ASPHALT PAVEMENT SHALL BE PAID PER TON UNDER ITEM P-401-1.
2. AGGREGATE BASE COURSE SHALL BE PAID PER CUBIC YARD UNDER ITEM P-209-1.
3. PROPOSED CONCRETE PAVEMENT SHALL BE PAID PER SQUARE YARD UNDER P-501-1.
4. SEE GRADING, DRAINAGE AND EROSION CONTROL SHEETS FOR ADDTIONAL GRADING INFORMATION.

LEGEND

RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
TSA	PROPOSED TAXIWAY SAFETY AREA
TOFA	PROPOSED TAXIWAY OBJECT FREE AREA
	PROPOSED FULL-DEPTH ASPHALT SECTION
	PROPOSED CONCRETE PAVEMENT

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRKMEYER
4-20-2021
PROFESSIONAL SEAL

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

REVISION RECORD

NO.	DESCRIPTION	DATE	BY

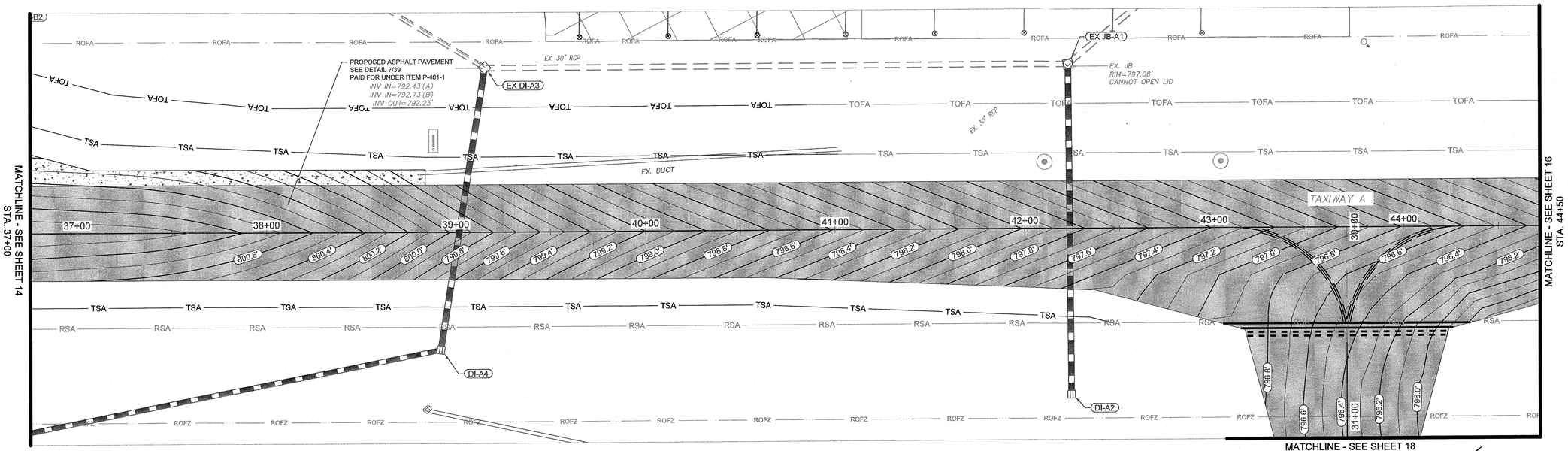
PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT
SPARTANBURG, SC

DRAWING TITLE: TAXIWAY A PLAN AND PROFILE STA. 29+50 TO 37+00

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

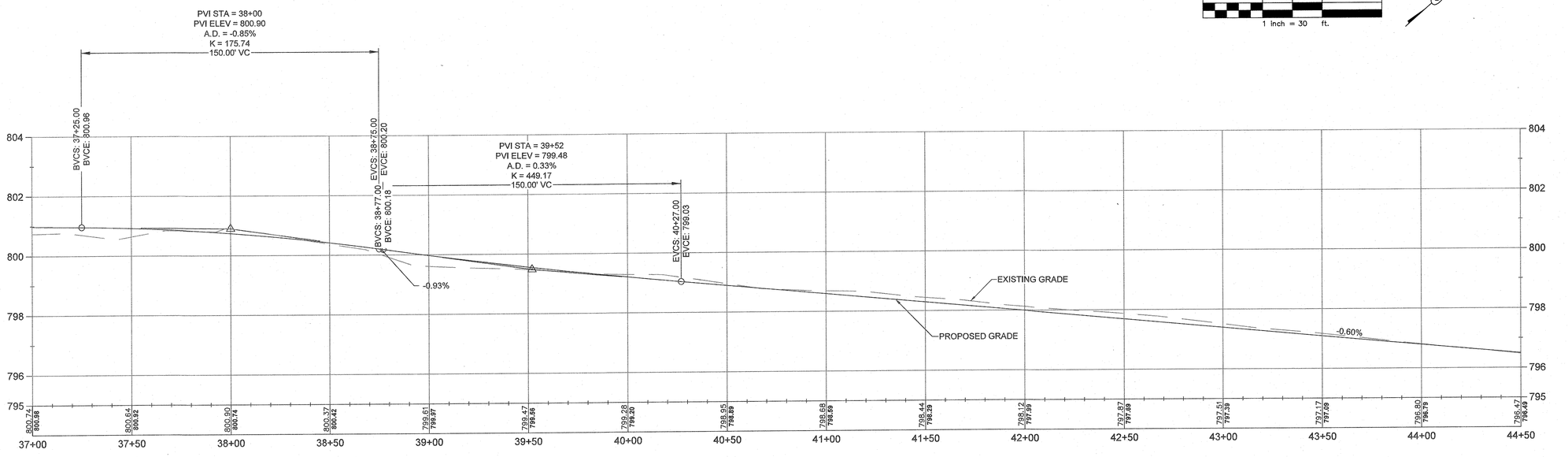
DRAWING NUMBER:
14 OF 40
WKD PROJ. NO.:
20200317.00.CA

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR REVISIONS BY OTHERS, OR USE FOR OTHER PROJECTS WITHOUT THE EXPRESS WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ANY REPRODUCTION FROM AN ELECTRONIC FILE OF THIS DOCUMENT, OR ANY PORTION THEREOF, SHALL BE CONSIDERED TO BE VALID ONLY IF IT IS A TRUE COPY FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VALID. ANY OTHER COPIES.

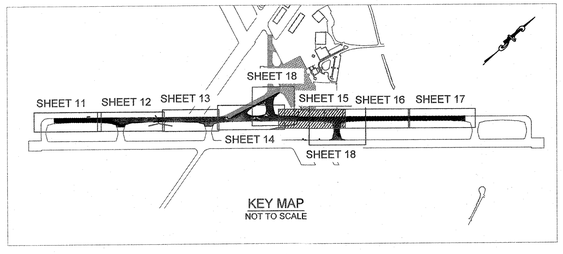


TAXIWAY A: PLAN VIEW
STA. 37+00 TO STA. 44+50
HORIZONTAL SCALE: 1"=30'

30 0 15 30 60
1 inch = 30 ft.



TAXIWAY A: PROFILE VIEW
STA. 37+00 TO STA. 44+50
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=2'



KEY MAP
NOT TO SCALE

NOTES:

1. ASPHALT PAVEMENT SHALL BE PAID PER TON UNDER ITEM P-401-1.
2. AGGREGATE BASE COURSE SHALL BE PAID PER CUBIC YARD UNDER ITEM P-209-1.
3. PROPOSED CONCRETE PAVEMENT SHALL BE PAID PER SQUARE YARD UNDER P-501-1.
4. SEE GRADING, DRAINAGE AND EROSION CONTROL SHEETS FOR ADDTIONAL GRADING INFORMATION.

LEGEND

RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
TSA	PROPOSED TAXIWAY SAFETY AREA
TOFA	PROPOSED TAXIWAY OBJECT FREE AREA
	PROPOSED FULL-DEPTH ASPHALT SECTION
	PROPOSED CONCRETE PAVEMENT

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC.
No. C00177
C.O.A.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRKMYER
PROFESSIONAL SEAL

REVISION RECORD

NO.	DESCRIPTION	DATE	BY

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT
SPARTANBURG, SC

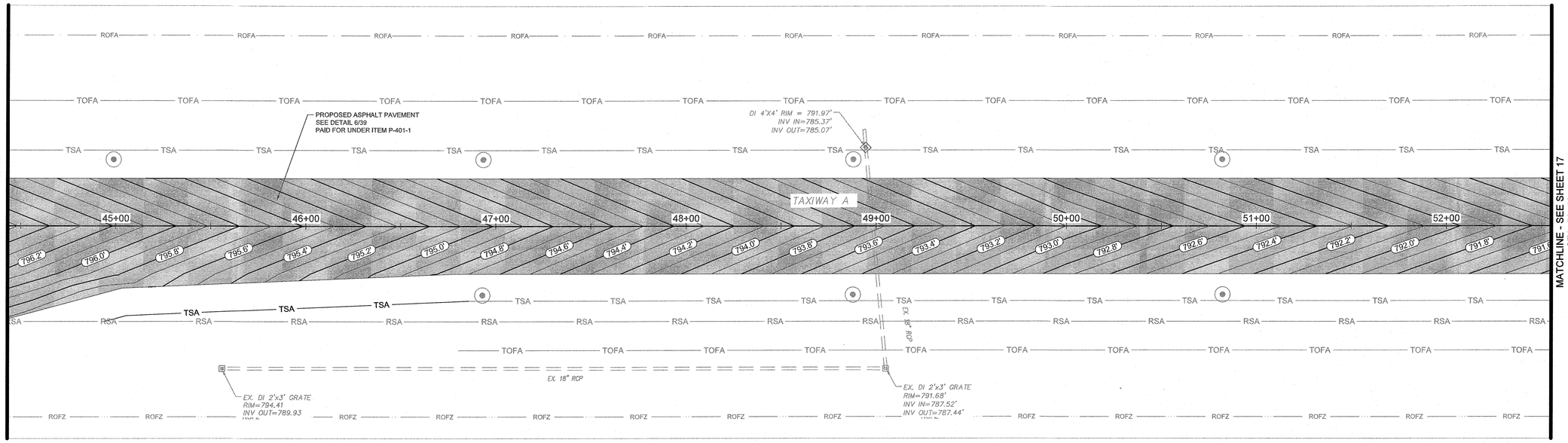
DRAWING TITLE: TAXIWAY A PLAN AND PROFILE STA. 37+00 TO 44+50

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
15 OF 40
WKD PROJ. NO.:
20200317.00.CA

R:\&Projects\Spartanburg\20200317.00\5- SPA Airport\1-Taxiway A Rehabilitation\ACAD\Tax Aplan\Tax A PROFILE.dwg, 4/20/2021 11:19:06 AM

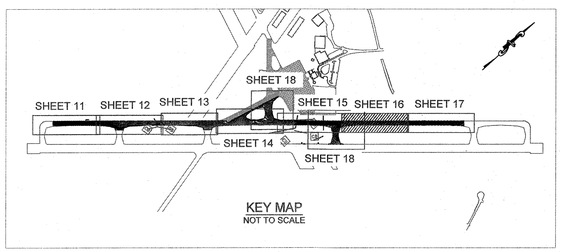
COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENTS OF THIS DOCUMENT BY ANY METHOD, ELECTRONIC OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. ANY UNAUTHORIZED REUSE OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID, TRUE COPIES.



TAXIWAY A: PLAN VIEW
STA. 44+50 TO STA. 52+50
HORIZONTAL SCALE: 1"=30'

30 0 15 30 60
1 inch = 30 ft.

TAXIWAY A: PROFILE VIEW
STA. 44+50 TO STA. 52+50
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=2'



KEY MAP
NOT TO SCALE

NOTES:

1. ASPHALT PAVEMENT SHALL BE PAID PER TON UNDER ITEM P-401-1.
2. AGGREGATE BASE COURSE SHALL BE PAID PER CUBIC YARD UNDER ITEM P-209-1.
3. PROPOSED CONCRETE PAVEMENT SHALL BE PAID PER SQUARE YARD UNDER P-501-1.
4. SEE GRADING, DRAINAGE AND EROSION CONTROL SHEETS FOR ADDTIONAL GRADING INFORMATION.

LEGEND

RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
TSA	PROPOSED TAXIWAY SAFETY AREA
TOFA	PROPOSED TAXIWAY OBJECT FREE AREA
	PROPOSED FULL-DEPTH ASPHALT SECTION
	PROPOSED CONCRETE PAVEMENT

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC.
No. C00177
C.O.A.

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRMINGHAM
4-23-21
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: TAXIWAY A PLAN AND PROFILE STA. 44+50 TO 52+50

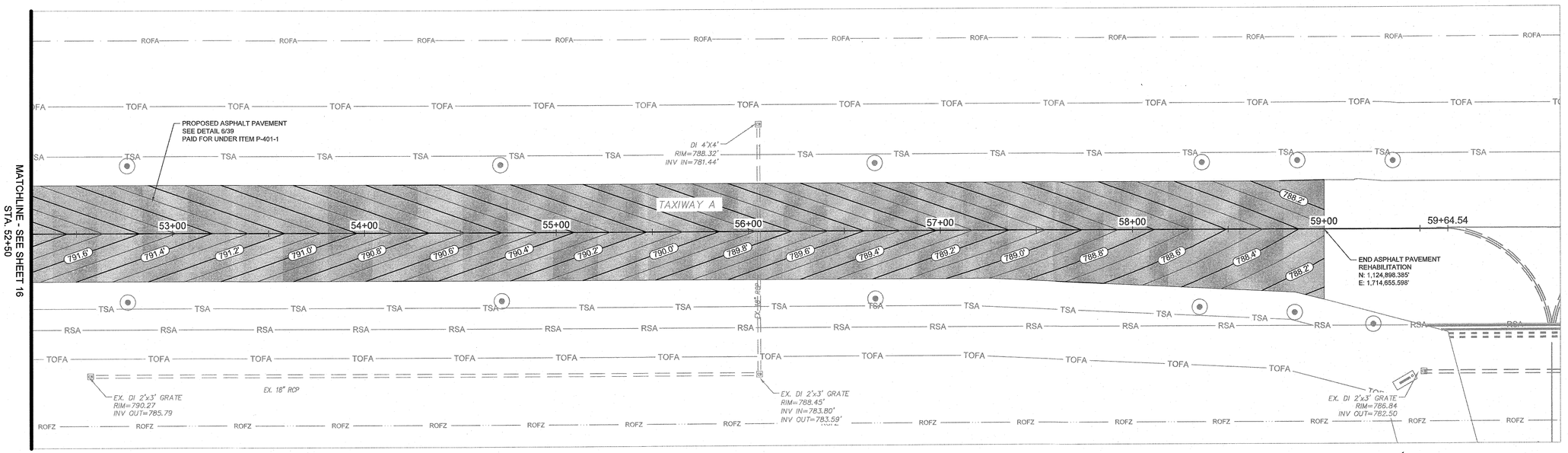
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
16 OF 40

WKD PROJ. NO.:
20200317.00.CA

FILE PATH:Z:\Projects\Airports\Spartanburg\20200317.00CA - SPA Wrk#1's Taxiway A Rehabilitation\CAD\Plan Set\Sheet Files\A - PLAN & PROFILE.dwg LAYOUT:PLAN & PROFILE 11:19:23 AM 4/23/2021

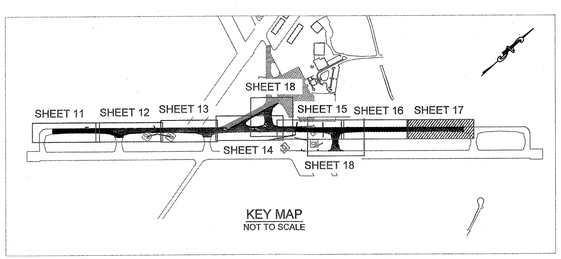
COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. INTRODUCTION OR USE OF THIS CONTENT OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENT BY ANY METHOD WITHOUT THE EXPRESS WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. PRINTS THE ORIGINAL OF THIS DOCUMENT MARKED WITH ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID, THE ONLY COPIES.



TAXIWAY A: PLAN VIEW
STA. 52+50 TO STA. 59+64.54
HORIZONTAL SCALE: 1"=30'

30 0 15 30 60
1 inch = 30 ft.

TAXIWAY A: PROFILE VIEW
STA. 52+50 TO STA. 59+64.54
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=2'



NOTES:

1. ASPHALT PAVEMENT SHALL BE PAID PER TON UNDER ITEM P-401-1.
2. AGGREGATE BASE COURSE SHALL BE PAID PER CUBIC YARD UNDER ITEM P-209-1.
3. PROPOSED CONCRETE PAVEMENT SHALL BE PAID PER SQUARE YARD UNDER P-501-1.
4. SEE GRADING, DRAINAGE AND EROSION CONTROL SHEETS FOR ADDTIONAL GRADING INFORMATION.

LEGEND

RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
TSA	PROPOSED TAXIWAY SAFETY AREA
TOFA	PROPOSED TAXIWAY OBJECT FREE AREA
	PROPOSED FULL-DEPTH ASPHALT SECTION
	PROPOSED CONCRETE PAVEMENT

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BRINKER
4.20.2021
PROFESSIONAL SEAL

NO.	DATE	DESCRIPTION	BY

REVISION RECORD

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: TAXIWAY A PLAN AND PROFILE STA. 52+50 TO 59+64.54

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

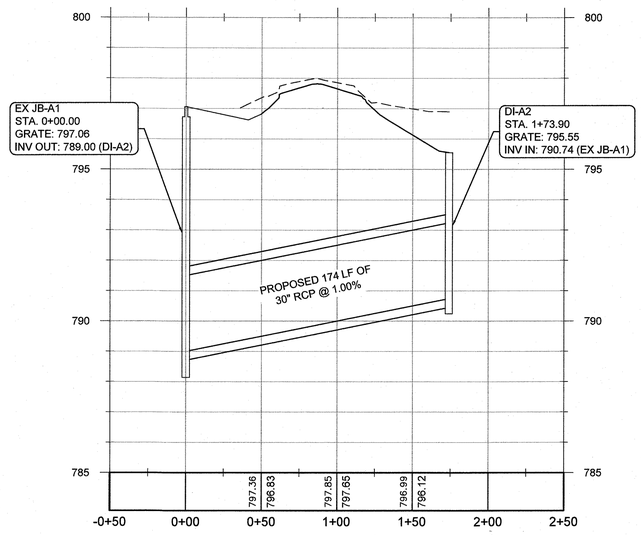
DRAWING NUMBER:
17 OF 40

WKD PROJ. NO.:
20200317.00.CA

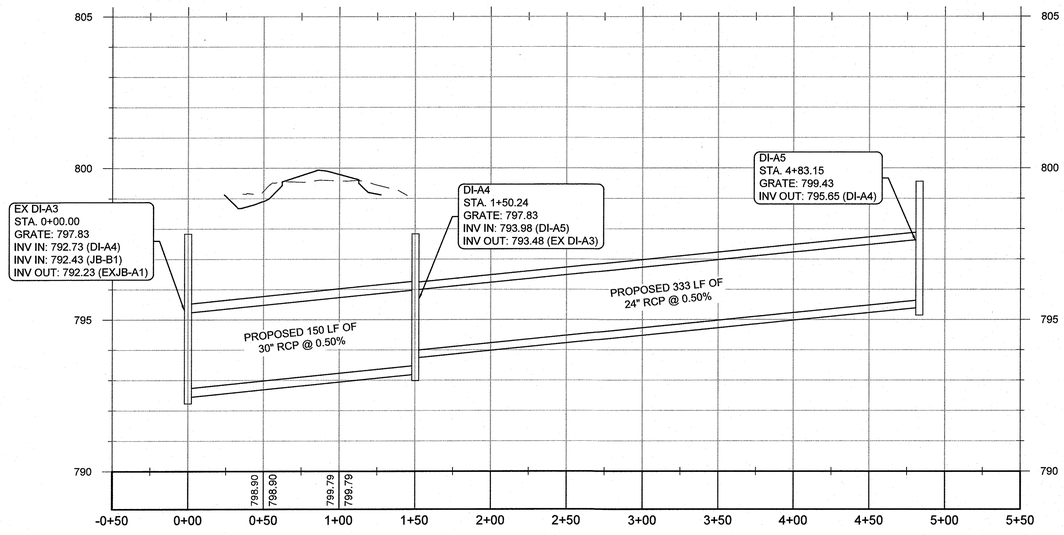
FILENAME:J:\Projects\Spartanburg\20200317\00CA - SPA MAP\Survey & Mapping\Base\CAD\Plan Set\Sheet Files\A - PLAN & PROFILE.dwg, LAYOUT:A - PLAN & PROFILE, 4/20/2021 11:19:04 AM

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR REVISIONS BY OTHERS TO THIS DOCUMENT, OR ITS USE FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS PREPARED WITHOUT THE EXPRESS WRITTEN CONSENT OF W.K. DICKSON & CO., INC. IS PROHIBITED. ANY UNAUTHORIZED USE SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO W.K. DICKSON & CO., INC. ELECTRONIC FILES ARE NOT CONSIDERED TO BE THE ORIGINAL OF THE DOCUMENT. ANY DOCUMENT PRINTED FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VALID. PRINTED COPIES

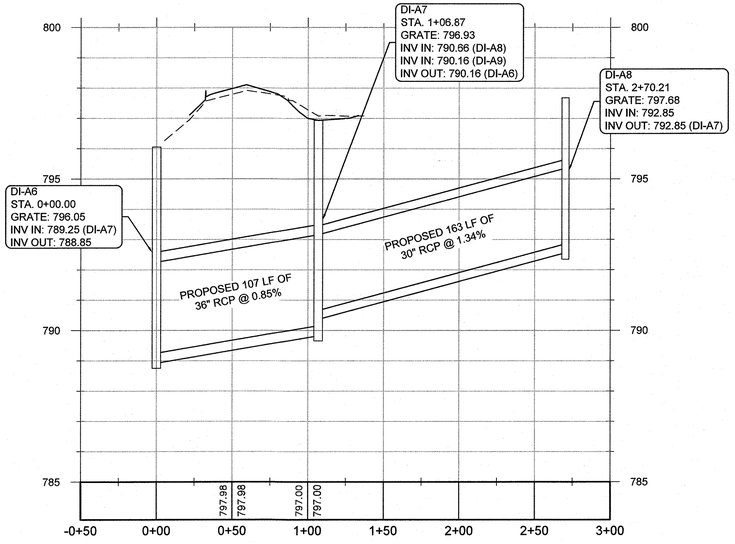
COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENTS OF THIS DOCUMENT BY ANY METHOD, ELECTRONIC OR MECHANICAL, WITHOUT THE EXPRESS WRITTEN PERMISSION FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VALID, TRUE COPIES.



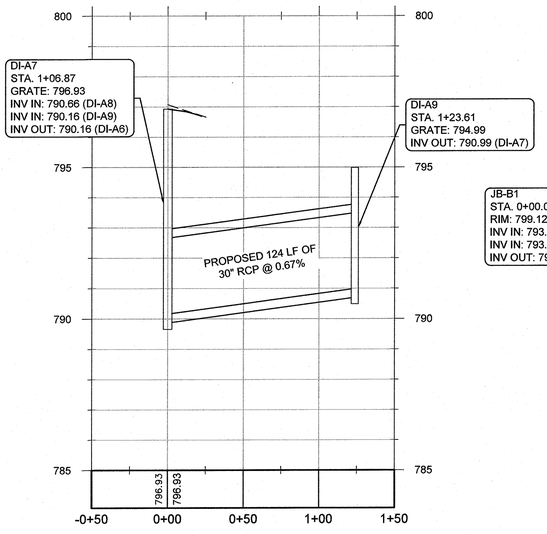
TAXIWAY A: STORM
DRAINAGE PROFILE 1
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



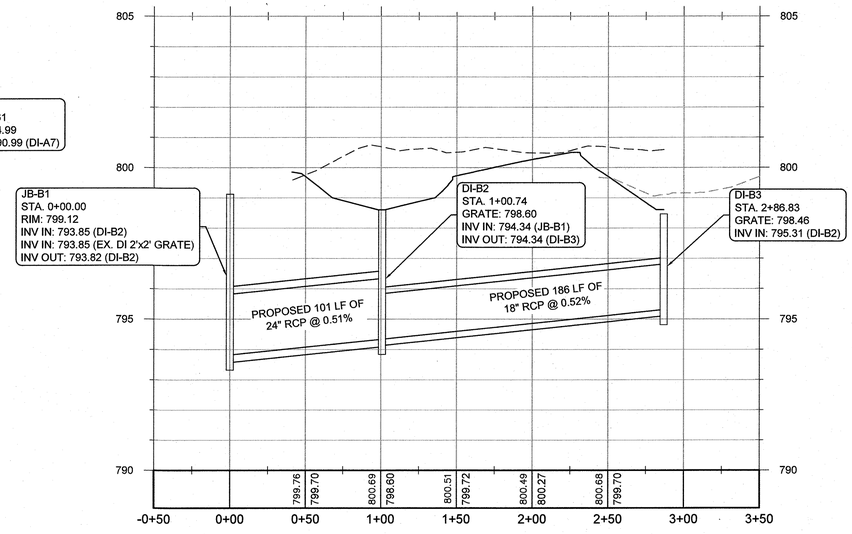
TAXIWAY A: STORM
DRAINAGE PROFILE 2
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



TAXIWAY A: STORM
DRAINAGE PROFILE 3
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



TAXIWAY A: STORM
DRAINAGE PROFILE 4
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



TAXIWAY B: STORM
DRAINAGE PROFILE
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BITKOWSKY
4-12-2021
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME: TAXIWAY A REHABILITATION
FOR THE
SPARTANBURG DOWNTOWN MEMORIAL
AIRPORT
SPARTANBURG, SC

DRAWING TITLE: STORM DRAINAGE PROFILES

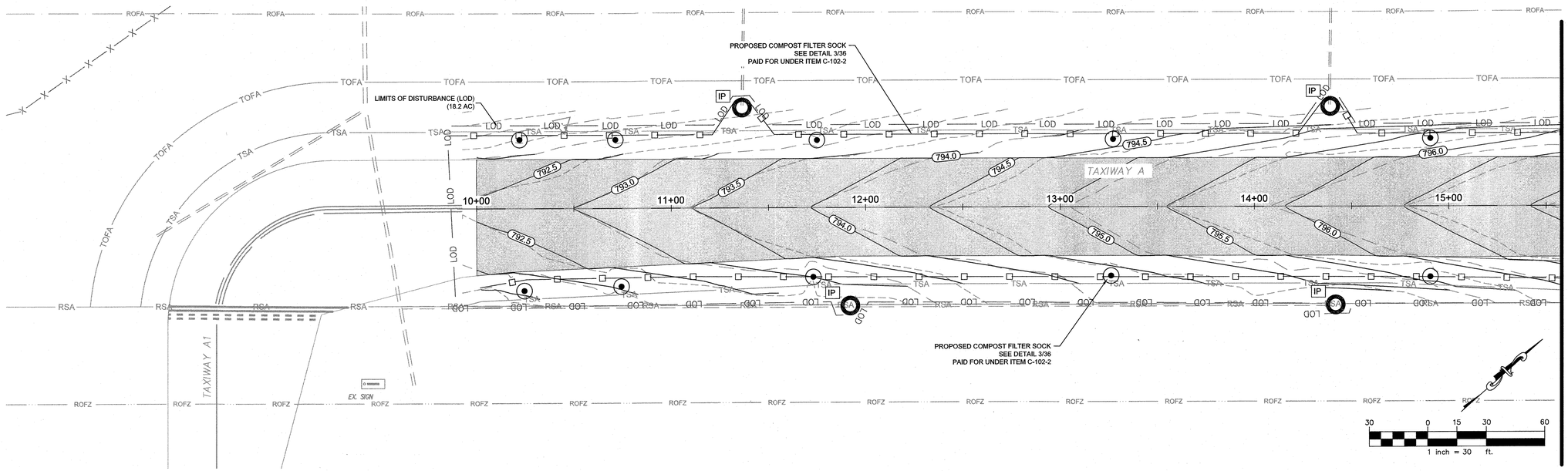
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

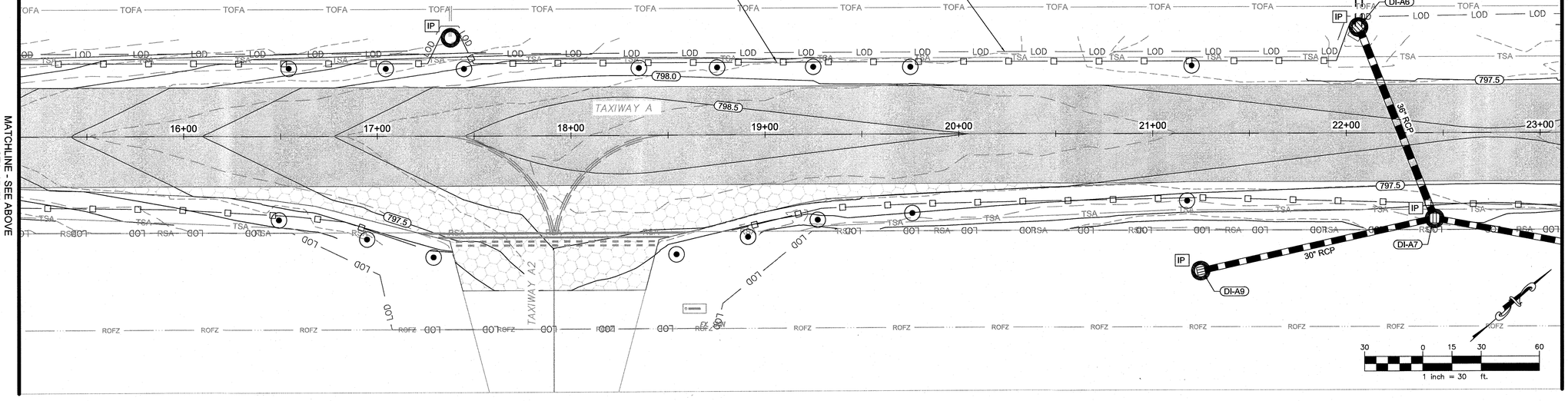
DRAWING NUMBER:
19 OF 40

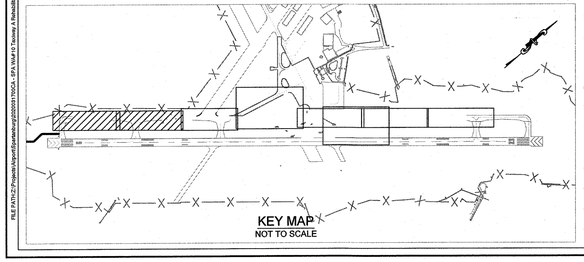
WKD PROJ. NO.:
20200317.00.CA

FILEPATH:C:\Projects\Airports\Spartanburg\2020\20200317000\CA - SPA\SA\13 Survey & Mapping\Base Files\13 STORM\SA13TB PROFILES.dwg, LEANDERBURK, 4/2/2021 11:17:44 AM

COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENT OF THIS DOCUMENT, ADDENDA OR ATTACHMENTS IN ANY FORM OR MEDIUM WITHOUT EXPRESS WRITTEN AUTHORIZATION BY W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. ANY REUSE, MODIFICATION, ALTERATION, OR ADAPTATION OF THIS DOCUMENT WITHOUT EXPRESS WRITTEN AUTHORIZATION BY W.K. DICKSON & CO., INC. FOR USE ON ANY OTHER PROJECT OR EXTENSION OF THIS PROJECT, OR ANY OTHER PROJECT WHATSOEVER, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO W.K. DICKSON & CO., INC. AND USER SHALL INDEMNIFY AND HOLD HARMLESS W.K. DICKSON & CO., INC. FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM. ANY MODIFICATION OF THIS DOCUMENT WITHOUT THE WRITTEN AUTHORIZATION OF W.K. DICKSON & CO., INC. SHALL REMOVE ALL REFERENCES TO W.K. DICKSON & CO., INC. AND ITS PROFESSIONAL SEAL. ANY MODIFICATION OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND AFFIXED SEAL SHALL BE CONSIDERED TO BE VALID. TRUE COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND AFFIXED SEAL SHALL BE CONSIDERED TO BE VALID. TRUE COPIES.







GENERAL GRADING, DRAINAGE, & EROSION CONTROL NOTES:

1. TEMPORARY GROUND COVER SHALL BE PLACED ON EXPOSED SLOPES WITHIN 14 CALENDAR DAYS PER THE TEMPORARY SEEDING SPECIFICATIONS IN DETAIL 2/36 WITHIN THE SEEDING SCHEDULE.
2. ONCE FINAL GRADING AND STABILIZATION IS COMPLETE, APPLY PERMANENT SEEDING MIXTURES PER DETAIL 2/36.
3. ALL PROPOSED CONTOURS SHOWN ARE AT 0.1' INTERVALS.
4. CONTRACTOR SHALL REFER TO GENERAL NOTES (SHEET 01) & DETAILS (SHEETS 35 TO 36) FOR ADDITIONAL INFORMATION ON EROSION CONTROL.
5. REFER TO DETAIL 2/39 FOR FULL DEPTH ASPHALT PAVEMENT SECTION
6. REFER TO DETAIL 3/39 FOR FULL DEPTH CONCRETE PAVEMENT SECTION
7. 18" PIPE SHALL BE PAID PER LINEAR FOOT UNDER D-701-1.
8. 30" RCP PIPE SHALL BE PAID PER LINEAR FOOT UNDER D-701-2.
9. AIRFIELD RATED DRAINAGE STRUCTURES SHALL BE PAID PER EACH UNDER D-751-1.
10. REFER TO SHEET 19 FOR STORM DRAINAGE PROFILES.
11. REFER TO SHEET 40 FOR STORM DRAINAGE DETAILS.
12. COMPOST FILTER SOCK SHALL BE PAID PER LINEAR FOOT UNDER C-102-2. SEE DETAIL 2/36.
13. COMPOST FILTER SOCK INLET PROTECTION SHALL BE PAID PER EACH UNDER C-102-3. SEE DETAIL 1/36.

LEGEND

798	EXISTING CONTOUR
798	PROPOSED CONTOUR
LOD	LIMITS OF DISTURBANCE
RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
TSA	PROPOSED TAXIWAY SAFETY AREA
TOFA	PROPOSED TAXIWAY OBJECT FREE AREA
x 286.17	EXISTING GRADE SPOT ELEVATION
x 286.17	PROPOSED GRADE SPOT ELEVATION
	PROPOSED COMPOST FILTER SOCK
	PROPOSED ASPHALT PAVEMENT SECTION
	PROPOSED CONCRETE PAVEMENT SECTION
IP	PROPOSED COMPOST FILTER SOCK INLET PROTECTION - SEE NOTE 10
	PROPOSED DROP INLET DRAINAGE STRUCTURE
SD	PROPOSED STORM DRAIN PIPE

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRKMEYER
4-20-22
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: GRADING, DRAINAGE, AND EROSION CONTROL PLAN

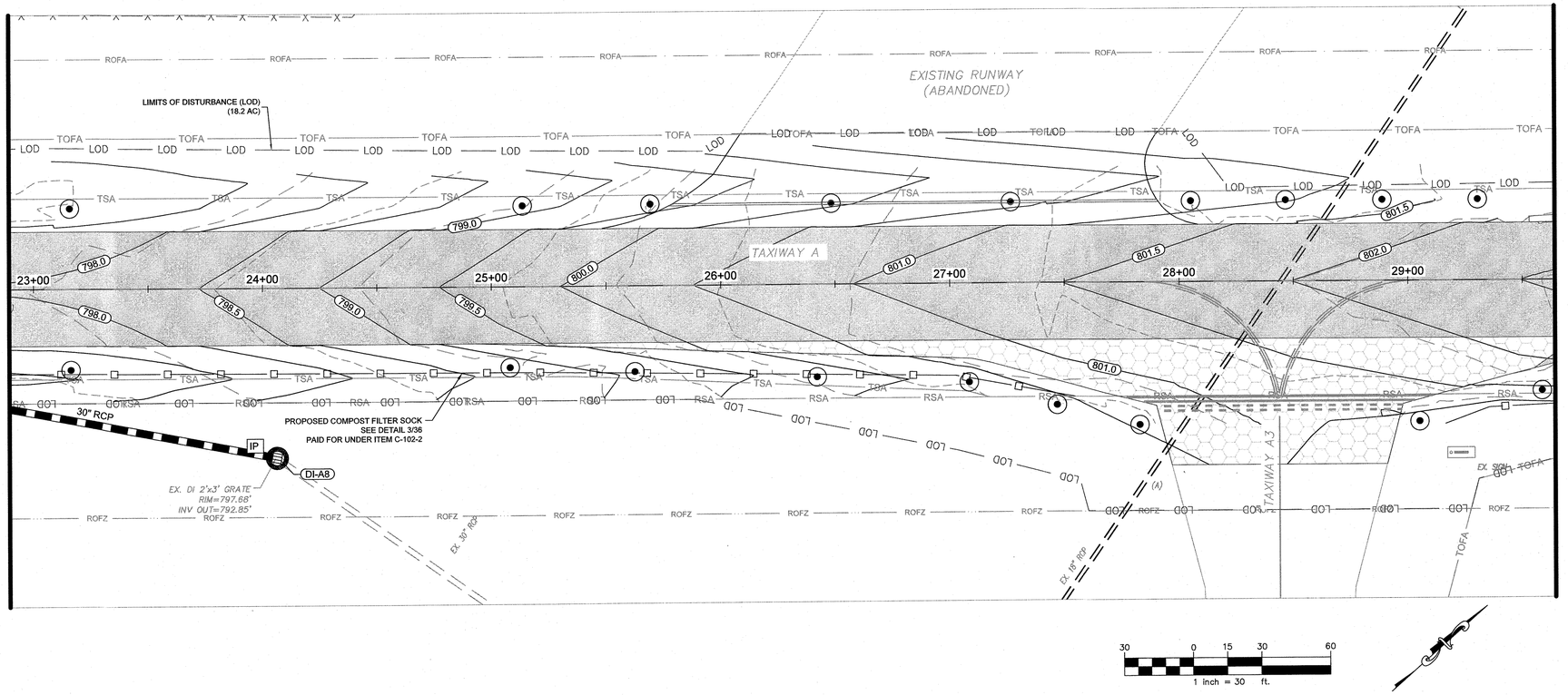
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
20 OF 40
WKD PROJ. NO.:
20200317.00.CA

P:\E FATS\Projects\Spartanburg\20200317\DGN\S - EPA MAP 01 Taxiway A Rehab\Sheet\CAD\The Northwest Plans\S - GRADING, DRAINAGE, AND EROSION CONTROL - EPA MAP 01 Taxiway A Rehab\Sheet\CAD\The Northwest Plans\S - GRADING, DRAINAGE, AND EROSION CONTROL PLAN.dwg, LAYOUT1, BRIAN.MEYER, 4/20/2022 11:18:16 AM

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR MODIFICATIONS TO THE CONTENTS OF THIS DOCUMENT, OR ANY PORTION THEREOF, WITHOUT THE EXPRESS WRITTEN CONSENT OF W.K. DICKSON & CO., INC. IS PROHIBITED. ANY COPY OF THIS DOCUMENT, OR ANY PORTION THEREOF, MUST INCLUDE THIS COPYRIGHT NOTICE. ANY COPY OF THIS DOCUMENT NOT BEARING AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VOID. THIS INCLUDES COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, THAT ARE SUBSEQUENTLY ALTERED IN ANY WAY, AND COPIES MADE FROM SUCH ALTERED COPIES.

PLOTTED: Thursday, April 22, 2021 - 11:09:38 AM
P:\Projects\Airport\Drawings\20200317.00.CA - SPX Grant 3 Taxiway A Rehabilitation\CAD\Plan Sheets - GRADING, DRAINAGE, AND EROSION CONTROL PLAN.dwg, PLAN-EROSION, ASBUILT 11:09:38 AM



KEY MAP
NOT TO SCALE

GENERAL GRADING, DRAINAGE, & EROSION CONTROL NOTES:

1. TEMPORARY GROUND COVER SHALL BE PLACED ON EXPOSED SLOPES WITHIN 14 CALENDAR DAYS PER THE TEMPORARY SEEDING SPECIFICATIONS IN DETAIL 2/36 WITHIN THE SEEDING SCHEDULE.
2. ONCE FINAL GRADING AND STABILIZATION IS COMPLETE, APPLY PERMANENT SEEDING MIXTURES PER DETAIL 2/36.
3. ALL PROPOSED CONTOURS SHOWN ARE AT 0.1' INTERVALS.
4. CONTRACTOR SHALL REFER TO GENERAL NOTES (SHEET 01) & DETAILS (SHEETS 35 TO 36) FOR ADDITIONAL INFORMATION ON EROSION CONTROL.
5. REFER TO DETAIL 2/39 FOR FULL DEPTH ASPHALT PAVEMENT SECTION
6. REFER TO DETAIL 3/39 FOR FULL DEPTH CONCRETE PAVEMENT SECTION
7. 18" PIPE SHALL BE PAID PER LINEAR FOOT UNDER D-701-1.
8. 30" RCP PIPE SHALL BE PAID PER LINEAR FOOT UNDER D-701-2.
9. AIRFIELD RATED DRAINAGE STRUCTURES SHALL BE PAID PER EACH UNDER D-751-1.
10. REFER TO SHEET 19 FOR STORM DRAINAGE PROFILES.
11. REFER TO SHEET 40 FOR STORM DRAINAGE DETAILS.
12. COMPOST FILTER SOCK SHALL BE PAID PER LINEAR FOOT UNDER C-102-2. SEE DETAIL 2/36.
13. COMPOST FILTER SOCK INLET PROTECTION SHALL BE PAID PER EACH UNDER C-102-3. SEE DETAIL 1/36.

LEGEND

798	EXISTING CONTOUR
798	PROPOSED CONTOUR
LOD	LIMITS OF DISTURBANCE
RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
TSA	PROPOSED TAXIWAY SAFETY AREA
TOFA	PROPOSED TAXIWAY OBJECT FREE AREA
x 286.17	EXISTING GRADE SPOT ELEVATION
x 286.17	PROPOSED GRADE SPOT ELEVATION
	PROPOSED COMPOST FILTER SOCK
	PROPOSED ASPHALT PAVEMENT SECTION
	PROPOSED CONCRETE PAVEMENT SECTION
	PROPOSED COMPOST FILTER SOCK INLET PROTECTION - SEE NOTE 10
	PROPOSED DROP INLET DRAINAGE STRUCTURE
SD	PROPOSED STORM DRAIN PIPE

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC.
No. C00177
C.O.A.

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BLANKENSHIP
4.22.21
PROFESSIONAL SEAL

REVISION RECORD

NO.	DESCRIPTION	DATE	BY

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: GRADING, DRAINAGE, AND EROSION CONTROL PLAN

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
21 OF 40

WKD PROJ. NO.:
20200317.00.CA

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENT OR THIS DOCUMENT, ADDITIONS OR EDITS TO THIS DOCUMENT, OR REMOVAL OF THIS NOTICE FROM THIS DOCUMENT IS PROHIBITED WITHOUT THE EXPRESS WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. ANY REPRODUCTION OF THIS DOCUMENT, IN WHOLE OR IN PART, MUST BE MADE FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL. E-SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. PRINTED COPIES.

R:\20317\2-Project Data\Drawings\Construction\20317003-ZPH Airfield Tasks & Rehabilitation\CAD\Tax Airfield Rehab - GRADING, DRAINAGE, AND EROSION CONTROL PLAN.dwg, 2-Project Map\Airfield Rehab - GRADING, DRAINAGE, AND EROSION CONTROL PLAN, 4/6/2021 11:16:48 AM

MATCHLINE - SEE SHEET 21
STA. 29+50

MATCHLINE - SEE SHEET 23
STA. 37+00

LIMITS OF DISTURBANCE (LOD)
(18.0 AC)

EX. DI 3'x3'
RIM=800.08
INV OUT=795.43

EX. JB
RIM=800.48'
CANNOT REMOVE LID

EX. SIGN

22+88.59

22+00

21+18

IP
JB-B1
DI-B2
DI-B3
DI-A5

24" RCP
18" RCP

30+00 31+00 32+00 33+00 34+00 35+00 20+00 36+00 37+00

30 0 15 30 60
1 inch = 30 ft.

KEY MAP
NOT TO SCALE

GENERAL GRADING, DRAINAGE, & EROSION CONTROL NOTES:

1. TEMPORARY GROUND COVER SHALL BE PLACED ON EXPOSED SLOPES WITHIN 14 CALENDAR DAYS PER THE TEMPORARY SEEDING SPECIFICATIONS IN DETAIL 2/36 WITHIN THE SEEDING SCHEDULE.
2. ONCE FINAL GRADING AND STABILIZATION IS COMPLETE, APPLY PERMANENT SEEDING MIXTURES PER DETAIL 2/36.
3. ALL PROPOSED CONTOURS SHOWN ARE AT 0.1' INTERVALS.
4. CONTRACTOR SHALL REFER TO GENERAL NOTES (SHEET 01) & DETAILS (SHEETS 35 TO 36) FOR ADDITIONAL INFORMATION ON EROSION CONTROL.
5. REFER TO DETAIL 2/39 FOR FULL DEPTH ASPHALT PAVEMENT SECTION
6. REFER TO DETAIL 3/39 FOR FULL DEPTH CONCRETE PAVEMENT SECTION
7. 18" PIPE SHALL BE PAID PER LINEAR FOOT UNDER D-701-1.
8. 30" RCP PIPE SHALL BE PAID PER LINEAR FOOT UNDER D-701-2.
9. AIRFIELD RATED DRAINAGE STRUCTURES SHALL BE PAID PER EACH UNDER D-751-1.
10. REFER TO SHEET 19 FOR STORM DRAINAGE PROFILES.
11. REFER TO SHEET 40 FOR STORM DRAINAGE DETAILS.
12. COMPOST FILTER SOCK SHALL BE PAID PER LINEAR FOOT UNDER C-102-2. SEE DETAIL 2/36.
13. COMPOST FILTER SOCK INLET PROTECTION SHALL BE PAID PER EACH UNDER C-102-3. SEE DETAIL 1/36.

LEGEND

798	EXISTING CONTOUR
798	PROPOSED CONTOUR
LOD	LIMITS OF DISTURBANCE
RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
TSA	PROPOSED TAXIWAY SAFETY AREA
TOFA	PROPOSED TAXIWAY OBJECT FREE AREA
x 286.17	EXISTING GRADE SPOT ELEVATION
x 286.17	PROPOSED GRADE SPOT ELEVATION
	PROPOSED COMPOST FILTER SOCK
	PROPOSED ASPHALT PAVEMENT SECTION
	PROPOSED CONCRETE PAVEMENT SECTION
	PROPOSED COMPOST FILTER SOCK INLET PROTECTION - SEE NOTE 10
	PROPOSED DROP INLET DRAINAGE STRUCTURE
SD	PROPOSED STORM DRAIN PIPE

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRKMEYER
4-30-2021
PROFESSIONAL SEAL

NO.	DATE	DESCRIPTION	BY

REVISION RECORD

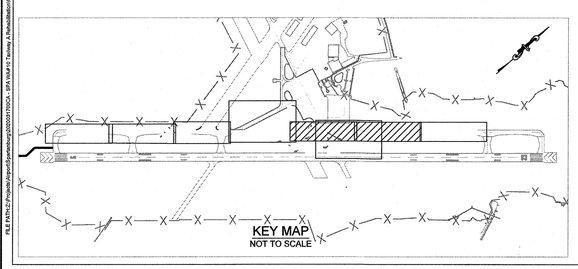
PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT
SPARTANBURG, SC

DRAWING TITLE: GRADING, DRAINAGE, AND EROSION CONTROL PLAN

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
22 OF 40
WKD PROJ. NO.:
20200317.00.CA

COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR MODIFICATIONS TO THE CONTENTS OF THIS DOCUMENT, OR REMOVAL OF THIS NOTICE FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VOID. THIS COPIER...



GENERAL GRADING, DRAINAGE, & EROSION CONTROL NOTES:

1. TEMPORARY GROUND COVER SHALL BE PLACED ON EXPOSED SLOPES WITHIN 14 CALENDAR DAYS PER THE TEMPORARY SEEDING SPECIFICATIONS IN DETAIL 2/36 WITHIN THE SEEDING SCHEDULE.
2. ONCE FINAL GRADING AND STABILIZATION IS COMPLETE, APPLY PERMANENT SEEDING MIXTURES PER DETAIL 2/36.
3. ALL PROPOSED CONTOURS SHOWN ARE AT 0.1' INTERVALS.
4. CONTRACTOR SHALL REFER TO GENERAL NOTES (SHEET 01) & DETAILS (SHEETS 35 TO 36) FOR ADDITIONAL INFORMATION ON EROSION CONTROL.
5. REFER TO DETAIL 2/39 FOR FULL DEPTH ASPHALT PAVEMENT SECTION
6. REFER TO DETAIL 3/39 FOR FULL DEPTH CONCRETE PAVEMENT SECTION
7. 18" PIPE SHALL BE PAID PER LINEAR FOOT UNDER D-701-1.
8. 30" RCP PIPE SHALL BE PAID PER LINEAR FOOT UNDER D-701-2.
9. AIRFIELD RATED DRAINAGE STRUCTURES SHALL BE PAID PER EACH UNDER D-751-1.
10. REFER TO SHEET 19 FOR STORM DRAINAGE PROFILES.
11. REFER TO SHEET 40 FOR STORM DRAINAGE DETAILS.
12. COMPOST FILTER SOCK SHALL BE PAID PER LINEAR FOOT UNDER C-102-2. SEE DETAIL 2/36.
13. COMPOST FILTER SOCK INLET PROTECTION SHALL BE PAID PER EACH UNDER C-102-3. SEE DETAIL 1/36.

LEGEND

798	EXISTING CONTOUR
798	PROPOSED CONTOUR
LOD	LIMITS OF DISTURBANCE
RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
TSA	PROPOSED TAXIWAY SAFETY AREA
TOFA	PROPOSED TAXIWAY OBJECT FREE AREA
x 286.17	EXISTING GRADE SPOT ELEVATION
x 286.17	PROPOSED GRADE SPOT ELEVATION
	PROPOSED COMPOST FILTER SOCK
	PROPOSED ASPHALT PAVEMENT SECTION
	PROPOSED CONCRETE PAVEMENT SECTION
	PROPOSED COMPOST FILTER SOCK INLET PROTECTION - SEE NOTE 10
	PROPOSED DROP INLET DRAINAGE STRUCTURE
SD	PROPOSED STORM DRAIN PIPE

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC.
No. C00177
C.O.A.

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRKMEYER
4-22-2021
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: GRADING, DRAINAGE, AND EROSION CONTROL PLAN

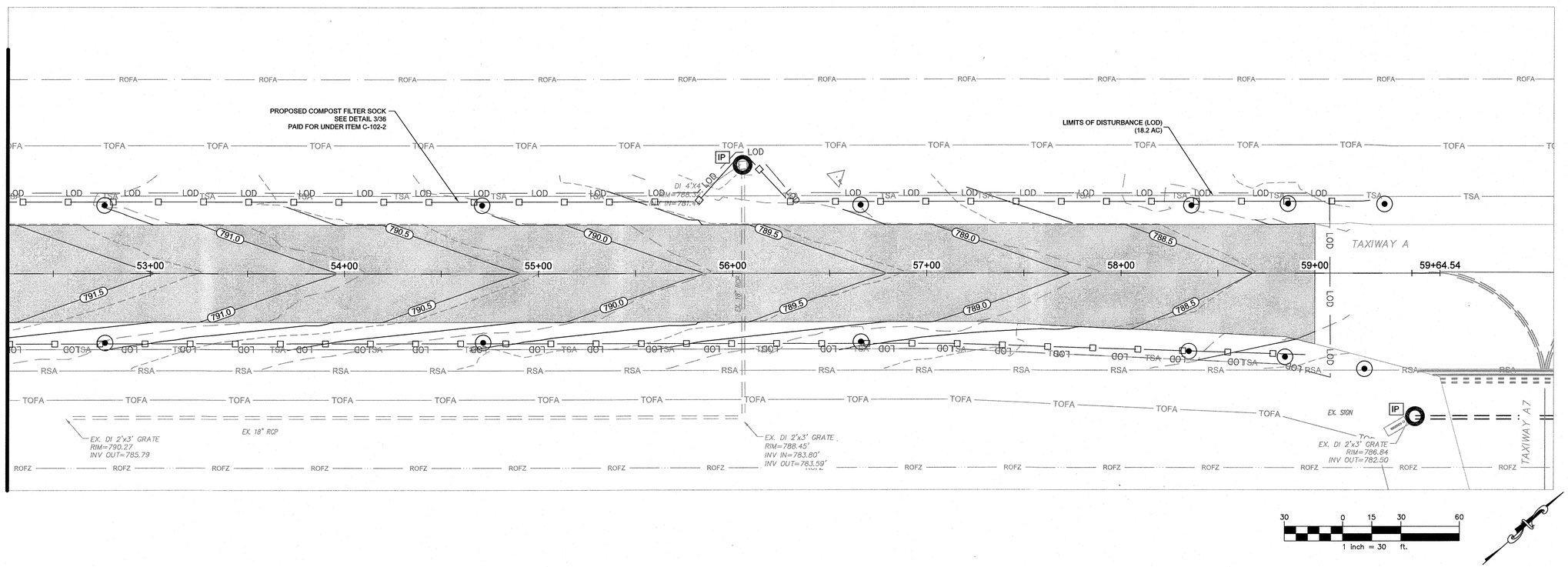
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

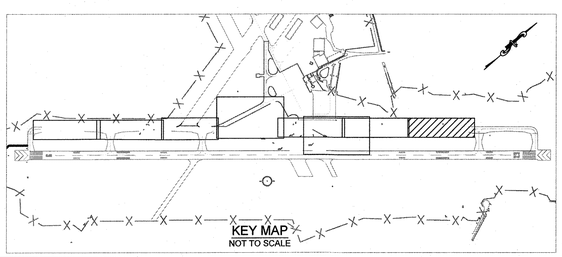
DRAWING NUMBER:
23 OF 40

WKD PROJ. NO.:
20200317.00.CA

FILEPATH:Z:\Projects\Airport\Spartanburg\20200317.00CA - SPA MAP19 Taxiway A Rehabilitation\CAD\Plan Set\Sheet Plan\4 - GRADING, DRAINAGE, AND EROSION CONTROL PLAN.dwg(4-22-2021 11:19:49 AM

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENTS OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THIS DOCUMENT BY ANY METHOD OR IN ANY FORM, ELECTRONIC OR MECHANICAL, WITHOUT THE EXPRESS WRITTEN PERMISSION FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VALID, TRUE COPIES.





GENERAL GRADING, DRAINAGE, & EROSION CONTROL NOTES:

1. TEMPORARY GROUND COVER SHALL BE PLACED ON EXPOSED SLOPES WITHIN 14 CALENDAR DAYS PER THE TEMPORARY SEEDING SPECIFICATIONS IN DETAIL 2/36 WITHIN THE SEEDING SCHEDULE.
2. ONCE FINAL GRADING AND STABILIZATION IS COMPLETE, APPLY PERMANENT SEEDING MIXTURES PER DETAIL 2/36.
3. ALL PROPOSED CONTOURS SHOWN ARE AT 0.1' INTERVALS.
4. CONTRACTOR SHALL REFER TO GENERAL NOTES (SHEET 01) & DETAILS (SHEETS 35 TO 36) FOR ADDITIONAL INFORMATION ON EROSION CONTROL.
5. REFER TO DETAIL 2/39 FOR FULL DEPTH ASPHALT PAVEMENT SECTION
6. REFER TO DETAIL 3/39 FOR FULL DEPTH CONCRETE PAVEMENT SECTION
7. 18" PIPE SHALL BE PAID PER LINEAR FOOT UNDER D-701-1.
8. 30" RCP PIPE SHALL BE PAID PER LINEAR FOOT UNDER D-701-2.
9. AIRFIELD RATED DRAINAGE STRUCTURES SHALL BE PAID PER EACH UNDER D-751-1.
10. REFER TO SHEET 19 FOR STORM DRAINAGE PROFILES.
11. REFER TO SHEET 40 FOR STORM DRAINAGE DETAILS.
12. COMPOST FILTER SOCK SHALL BE PAID PER LINEAR FOOT UNDER C-102-2. SEE DETAIL 2/36.
13. COMPOST FILTER SOCK INLET PROTECTION SHALL BE PAID PER EACH UNDER C-102-3. SEE DETAIL 1/36.

LEGEND

798	EXISTING CONTOUR
798	PROPOSED CONTOUR
LOD	LIMITS OF DISTURBANCE
RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
TSA	PROPOSED TAXIWAY SAFETY AREA
TOFA	PROPOSED TAXIWAY OBJECT FREE AREA
x 286.17	EXISTING GRADE SPOT ELEVATION
x 286.17	PROPOSED GRADE SPOT ELEVATION
	PROPOSED COMPOST FILTER SOCK
	PROPOSED ASPHALT PAVEMENT SECTION
	PROPOSED CONCRETE PAVEMENT SECTION
	PROPOSED COMPOST FILTER SOCK INLET PROTECTION - SEE NOTE 10
	PROPOSED DROP INLET DRAINAGE STRUCTURE
SD	PROPOSED STORM DRAIN PIPE

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BYRNE
4-22-2021
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: GRADING, DRAINAGE, AND EROSION CONTROL PLAN

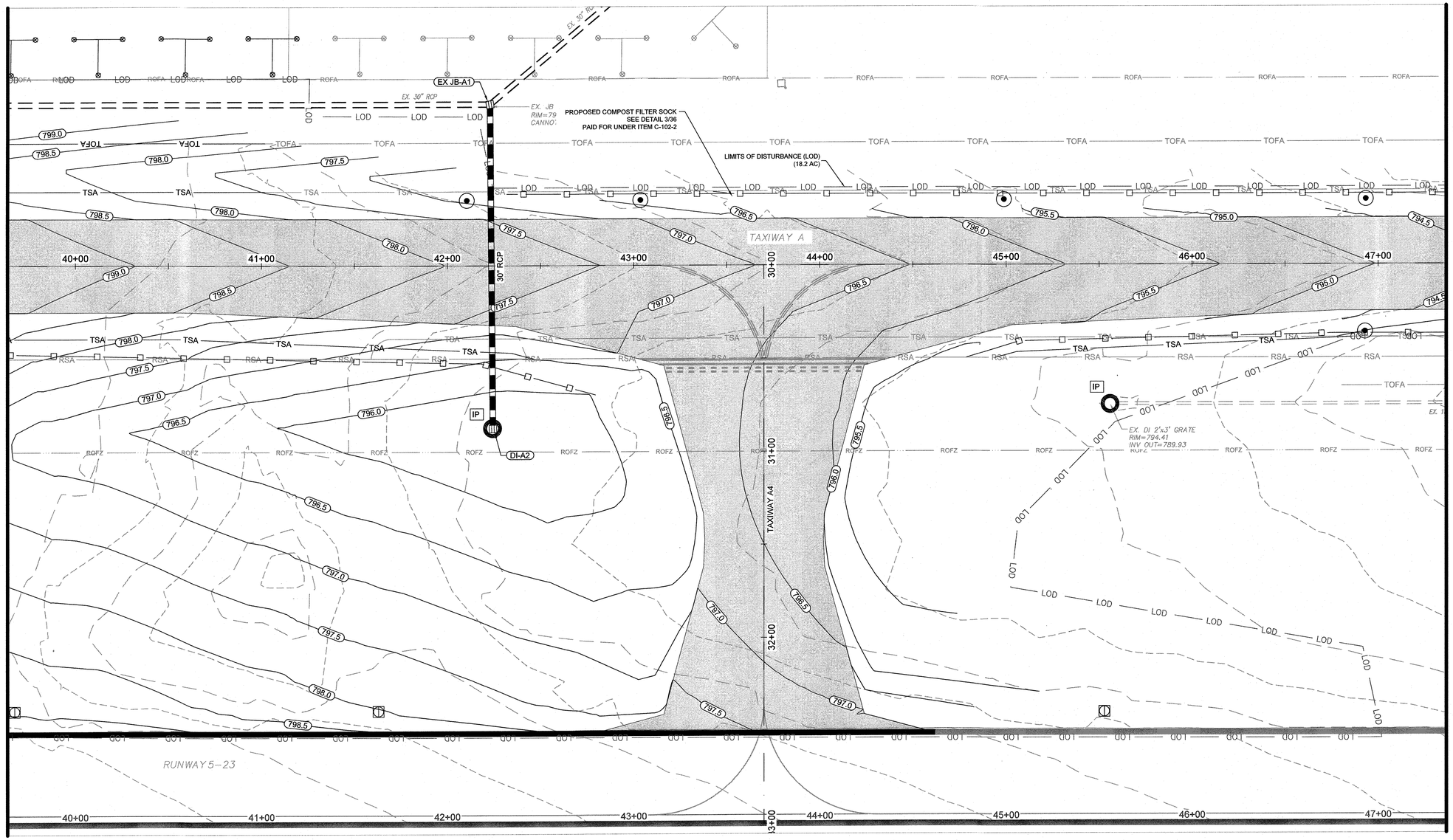
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

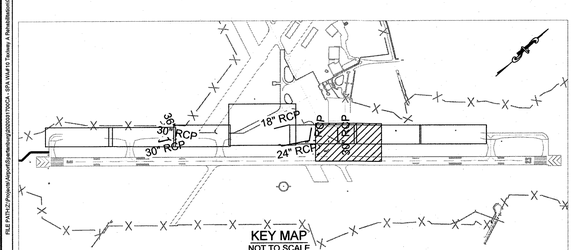
DRAWING NUMBER:
24 OF 40

WKD PROJ. NO.:
20200317.00.CA

FILEPATH:C:\Projects\Airport\Spartanburg\20200317000CA - SPA RUNWAY A Rehabilitation\CAD\Plan Set\Sheet Files\04 - GRADING, DRAINAGE, AND EROSION CONTROL PLAN.dwg,C:\Projects\Airport\Spartanburg\20200317000CA - SPA RUNWAY A Rehabilitation\CAD\Plan Set\Sheet Files\04 - GRADING, DRAINAGE, AND EROSION CONTROL PLAN.dwg, 4/22/2021 11:19:22 AM

COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENT OF THIS DOCUMENT, ADDITIONS OR ALTERATIONS BY ANY METHOD, ELECTRONIC OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. ANY REUSE OF THE DOCUMENTS FOR OTHER PROJECTS, EXTENSIONS OF THE PROJECT OR ANY MODIFICATIONS TO THE DOCUMENTS NOT PREPARED BY OR UNDER THE DIRECT SUPERVISION OF W.K. DICKSON & CO., INC. SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO W.K. DICKSON & CO., INC. ANY USER AGREES TO INDEMNIFY AND HOLD HARMLESS W.K. DICKSON & CO., INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING FROM SUCH UNAUTHORIZED USE OF THE DOCUMENTS. ANY USE OF THESE DOCUMENTS FOR OTHER PROJECTS OR EXTENSIONS OF THIS PROJECT, EXCEPT BY AGREEMENT WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VOID. THESE CONDITIONS SHALL BE GOVERNED BY THE LAWS OF THE STATE OF SOUTH CAROLINA.





30 0 15 30 60
1 inch = 30 ft.

GENERAL GRADING, DRAINAGE, & EROSION CONTROL NOTES:

1. TEMPORARY GROUND COVER SHALL BE PLACED ON EXPOSED SLOPES WITHIN 14 CALENDAR DAYS PER THE TEMPORARY SEEDING SPECIFICATIONS IN DETAIL 2/36 WITHIN THE SEEDING SCHEDULE.
2. ONCE FINAL GRADING AND STABILIZATION IS COMPLETE, APPLY PERMANENT SEEDING MIXTURES PER DETAIL 2/36.
3. ALL PROPOSED CONTOURS SHOWN ARE AT 0.1' INTERVALS.
4. CONTRACTOR SHALL REFER TO GENERAL NOTES (SHEET 01) & DETAILS (SHEETS 35 TO 36) FOR ADDITIONAL INFORMATION ON EROSION CONTROL.
5. REFER TO DETAIL 2/39 FOR FULL DEPTH ASPHALT PAVEMENT SECTION
6. REFER TO DETAIL 3/39 FOR FULL DEPTH CONCRETE PAVEMENT SECTION
7. 18" PIPE SHALL BE PAID PER LINEAR FOOT UNDER D-701-1.
8. 30" RCP PIPE SHALL BE PAID PER LINEAR FOOT UNDER D-701-2.
9. AIRFIELD RATED DRAINAGE STRUCTURES SHALL BE PAID PER EACH UNDER D-751-1.
10. REFER TO SHEET 19 FOR STORM DRAINAGE PROFILES.
11. REFER TO SHEET 40 FOR STORM DRAINAGE DETAILS.
12. COMPOST FILTER SOCK SHALL BE PAID PER LINEAR FOOT UNDER C-102-2. SEE DETAIL 2/36.
13. COMPOST FILTER SOCK INLET PROTECTION SHALL BE PAID PER EACH UNDER C-102-3. SEE DETAIL 1/36.

LEGEND

798	EXISTING CONTOUR
798	PROPOSED CONTOUR
LOD	LIMITS OF DISTURBANCE
RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
TSA	PROPOSED TAXIWAY SAFETY AREA
TOFA	PROPOSED TAXIWAY OBJECT FREE AREA
x 286.17	EXISTING GRADE SPOT ELEVATION
x 286.17	PROPOSED GRADE SPOT ELEVATION
	PROPOSED COMPOST FILTER SOCK
	PROPOSED ASPHALT PAVEMENT SECTION
	PROPOSED CONCRETE PAVEMENT SECTION
	PROPOSED COMPOST FILTER SOCK INLET PROTECTION - SEE NOTE 10
	PROPOSED DROP INLET DRAINAGE STRUCTURE
SD	PROPOSED STORM DRAIN PIPE

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRKMEYER
9-2-21
PROFESSIONAL SEAL

REVISION RECORD

NO.	DESCRIPTION	DATE	BY

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: GRADING, DRAINAGE, AND EROSION CONTROL PLAN

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

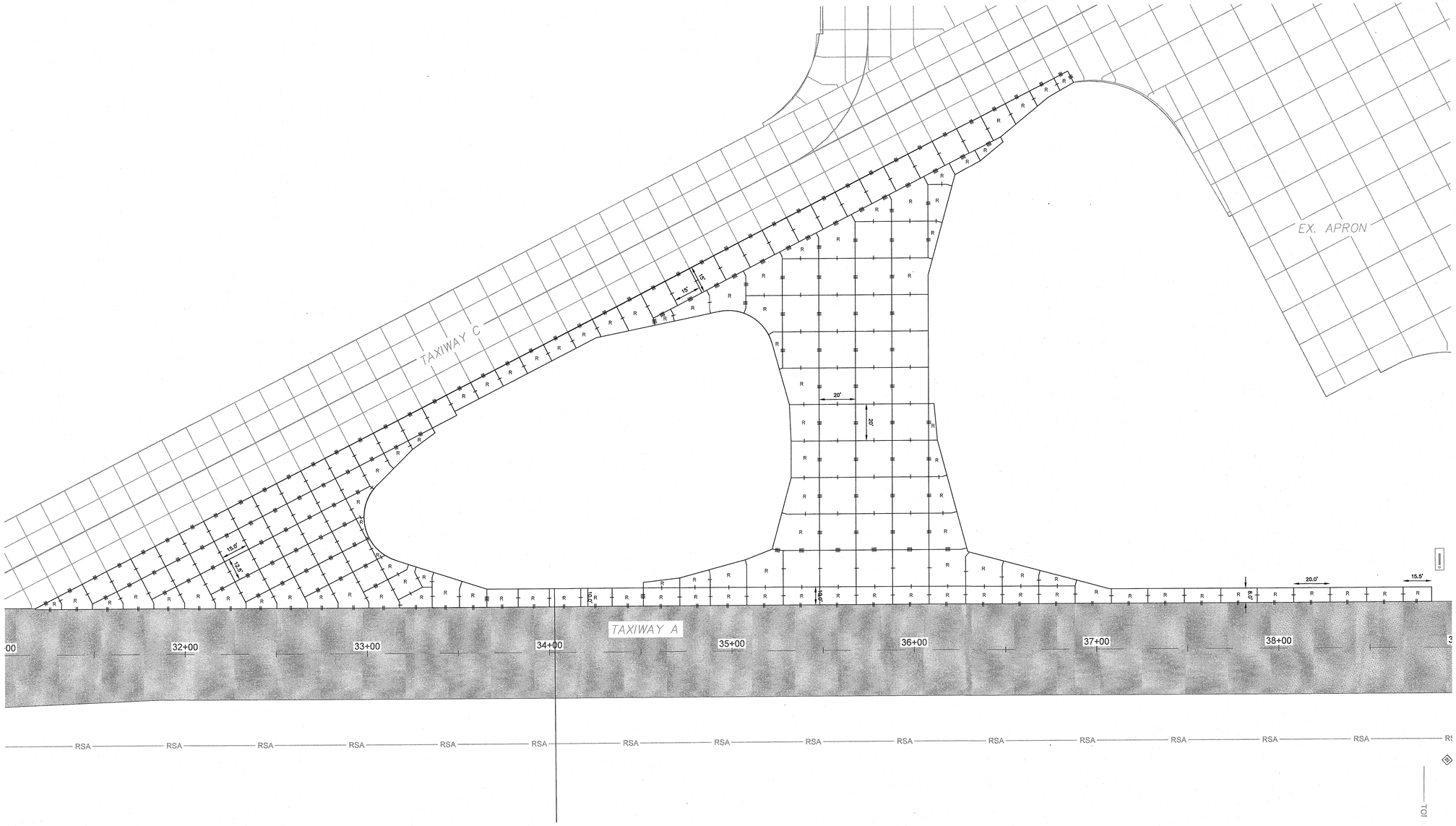
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

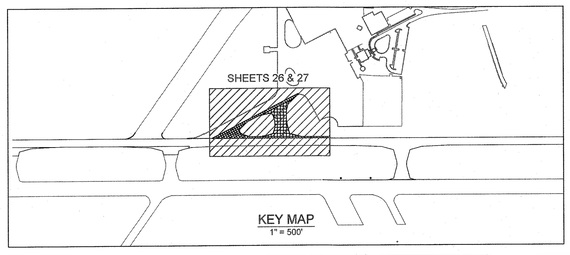
DRAWING NUMBER: 25 OF 40

WKD PROJ. NO.: 20200317.00.CA

FILE PATH:Z:\Projects\Airport\Engineering\20200317\DGN - SPA Wk#19 Taxiway A Rehab\Master\CAD\Plan Set\Sheet Files\08 - GRADING, DRAINAGE, AND EROSION CONTROL PLAN.dwg LAYOUT:ARCH D1 USER:BIRKMEYER, CHRISTOPHER J 8/2/2021 11:19:08 AM

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENTS OF THIS DOCUMENT, ADDITIONS OR REVISIONS THERETO, IN WHOLE OR IN PART, BY ANY METHOD OR IN ANY FORM, WITHOUT PRIOR WRITTEN PERMISSION IS FORBIDDEN. ANY RECIPIENT OF THIS DOCUMENT, BY ACCEPTING THIS DOCUMENT, AGREES TO THE FOREGOING AND ACKNOWLEDGES THAT ONLY DOCUMENTS BEARING THE ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID, TRUE COPIES.





JOINT LAYOUT LEGEND

- DOWELED CONTRACTION JOINT (TYPE C), SEE DETAIL 6 & 9/37
- CONCRETE/ASPHALT BUTT JOINT (TYPE J), SEE DETAIL 2/37
- DOWELED CONSTRUCTION JOINT (TYPE E), SEE DETAIL 4 & 6/37
- ISOLATION JOINT (TYPE A), SEE DETAIL 6 AND 7/37
- R — PANELS TO BE REINFORCED, SEE DETAIL 3/37
- TOFA — EXISTING TAXIWAY OBJECT FREE AREA
- TSA — EXISTING TAXIWAY SAFETY AREA
- ROFA — EXISTING RUNWAY OBJECT FREE AREA
- RSA — EXISTING RUNWAY SAFETY AREA
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT

30 0 15 30 60
1 inch = 30 ft.

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BYRAM
4.20.21
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: TAXIWAY C JOINT LAYOUT PLAN

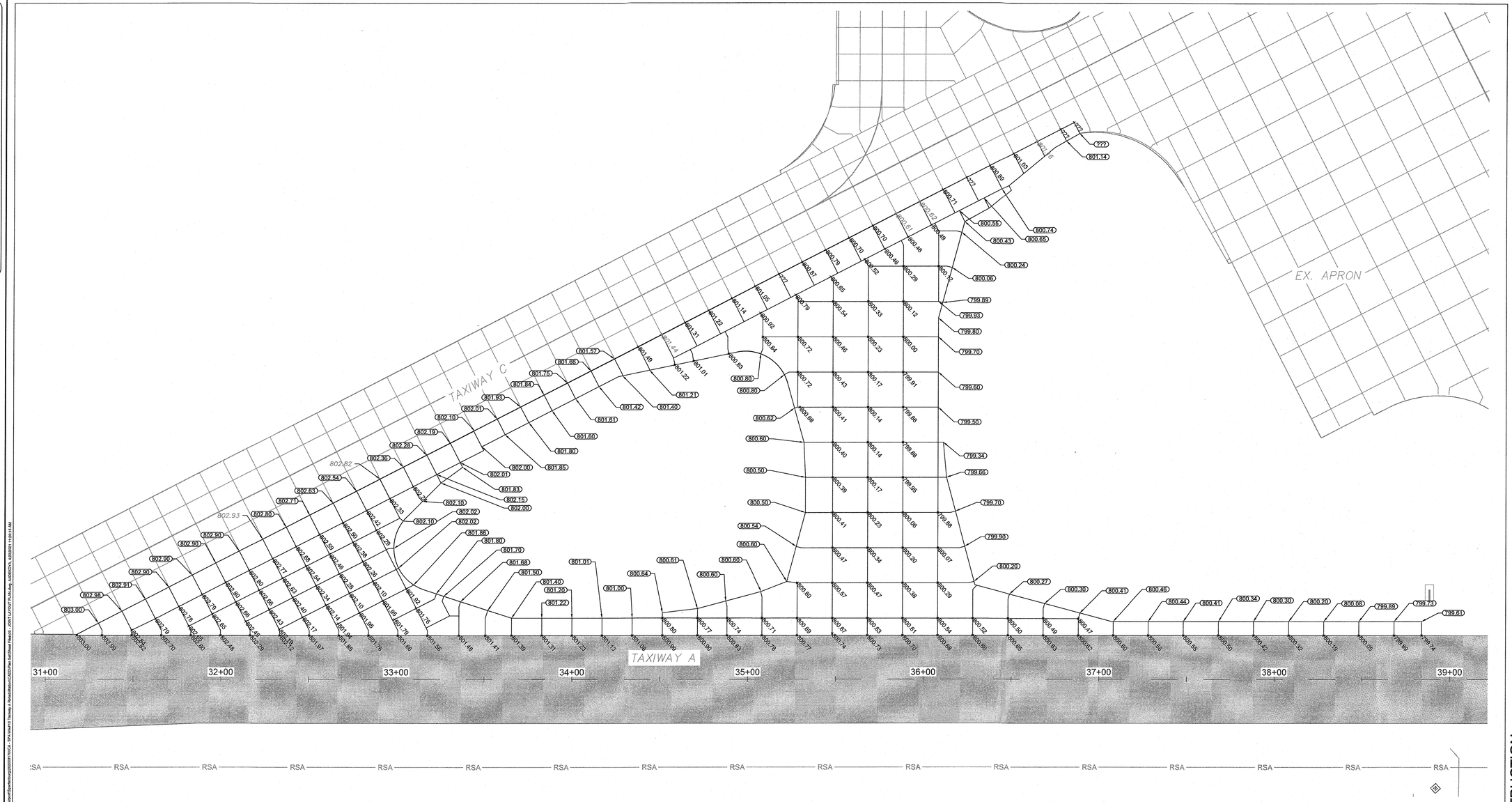
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

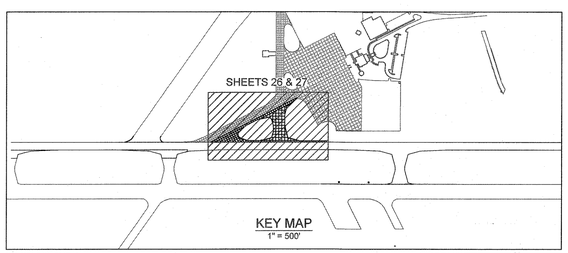
DRAWING NUMBER:
26 OF 40
WKD PROJ. NO.:
20200317.00.CA

RS:\2020\20200317\project\drawings\20200317.DGN, 26 TAXIWAY C Taxiway A Rehabilitation-CADD\The Ashfield Patrick - 20917 LVD\17 Full Aug\Project\plan\sheets\20200317.DGN, 26 TAXIWAY C Taxiway A Rehabilitation-CADD\The Ashfield Patrick - 20917 LVD\17 Full Aug, 4/20/2021 11:20:01 AM

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENT OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENT OF THIS DOCUMENT BY ANY METHOD, ELECTRONIC OR MECHANICAL, WITHOUT EXPRESS WRITTEN PERMISSION FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID, TRUE COPIES.

FILE PATH: Z:\Projects\Airport\Spartanburg\20200317.00\CA - SPA VIA#15 Taxiway A Rehab\Master\CAD\Plan Set\Sheet Files\05 - JOINT LAYOUT PLAN.dwg, Z:\Projects\Airport\Spartanburg\20200317.00\CA - SPA VIA#15 Taxiway A Rehab\Master\CAD\Plan Set\Sheet Files\05 - JOINT LAYOUT PLAN.dwg, ADRIONA, 4/5/2021 11:05:15 AM





30 0 15 30 60
1 inch = 30 ft.

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BLANKENSHIP
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

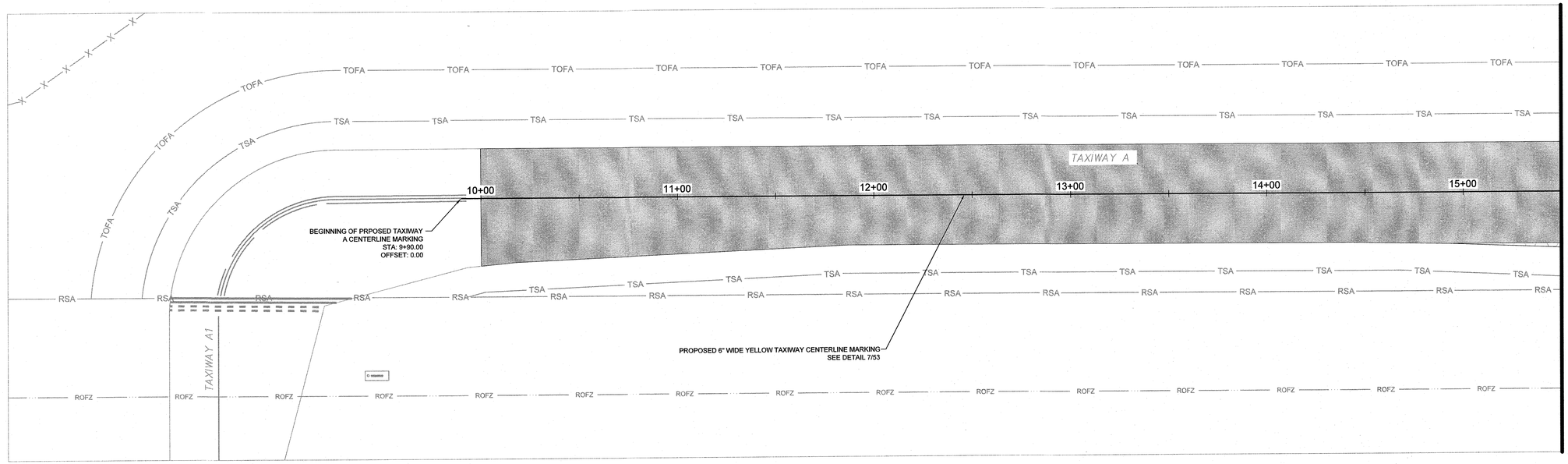
PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

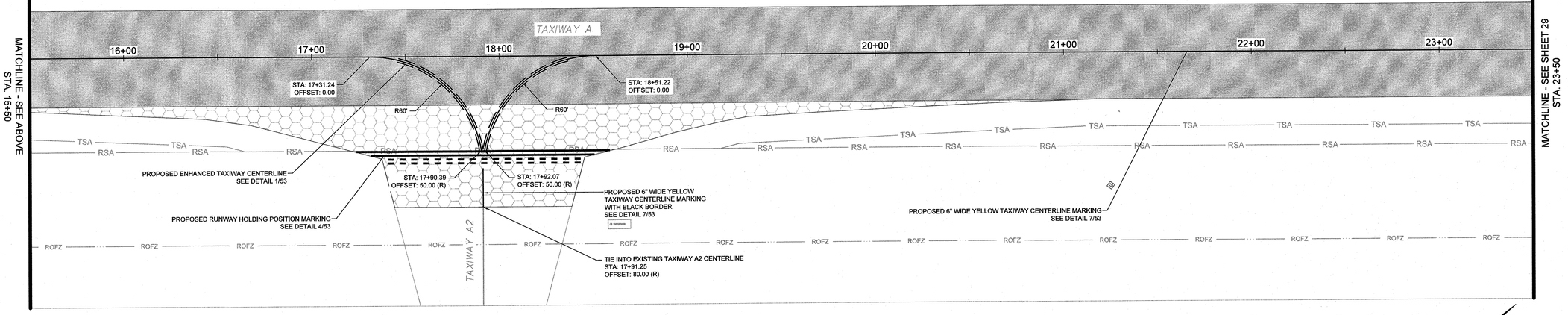
DRAWING TITLE: TAXIWAY C JOINT ELEVATION PLAN

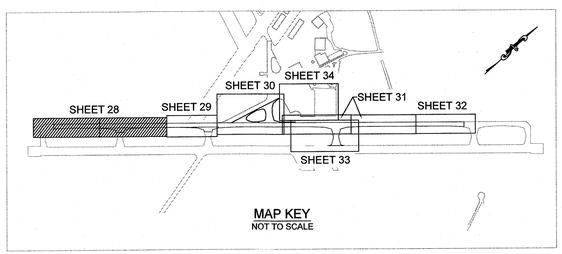
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
27 OF 40
WKD PROJ. NO.:
20200317.00.CA

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENTS OF THIS DOCUMENT BY ANY METHOD, ELECTRONIC OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. USE OF THIS DOCUMENT FOR ANY PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT WAS PREPARED, OR EXTENSIONS OF THAT PROJECT, WITHOUT THE EXPRESS WRITTEN CONSENT OF W.K. DICKSON & CO., INC. SHALL BE UNLAWFUL. ANY UNAUTHORIZED USE SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO W.K. DICKSON & CO., INC. IN ADDITION, THE USER SHALL INDEMNIFY AND HOLD HARMLESS W.K. DICKSON & CO., INC. AND ITS OFFICERS AND EMPLOYEES FROM ALL LOSSES, DAMAGES, CLAIMS, SUITS, JUDGMENTS AND EXPENSES INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM. ANY MODIFICATION OF THIS DOCUMENT IS DONE WITHOUT THE KNOWLEDGE AND CONSENT OF W.K. DICKSON & CO., INC. AND IS THE RESPONSIBILITY OF THE PERSON MAKING THE MODIFICATION. IF THIS DOCUMENT IS MODIFIED, IT SHALL NO LONGER BE CONSIDERED TO BE AN ACCURATE REPRESENTATION OF THE DATA CONTAINED HEREIN. IF THIS DOCUMENT IS MODIFIED, THE PERSON MAKING THE MODIFICATION SHALL REMOVE ALL REFERENCES TO W.K. DICKSON & CO., INC. AND ITS OFFICERS AND EMPLOYEES. IN ADDITION, IF THIS DOCUMENT IS MODIFIED, IT SHALL NOT BEAR THE SEAL OF THE ENGINEER OF RECORD. IF THIS DOCUMENT IS NOT THE ORIGINAL OF THIS DOCUMENT, IT SHALL NOT BEAR THE SEAL OF THE ENGINEER OF RECORD. IF THIS DOCUMENT IS NOT THE ORIGINAL OF THIS DOCUMENT, IT SHALL NOT BE CONSIDERED TO BE VALID. RAE COPIES.







LEGEND

RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
TSA	PROPOSED TAXIWAY SAFETY AREA
TOFA	PROPOSED TAXIWAY OBJECT FREE AREA
	PROPOSED ASPHALT PAVEMENT
	PROPOSED ASPHALT OVERLAY
	PROPOSED CONCRETE PAVEMENT

30 0 15 30 60
1 inch = 30 ft.

PAVEMENT MARKINGS GENERAL NOTES

1. ALL TAXIWAY PAVEMENT MARKINGS SHALL BE 6" WIDE YELLOW MARKINGS UNLESS OTHERWISE NOTED.
2. FOR THIS PROJECT, ALL YELLOW AND WHITE PAVEMENT MARKINGS ARE TO RECEIVE GLASS BEADS (TYPE I OR TYPE III) PER AC 150/5340-1M STANDARDS FOR AIRPORT MARKINGS.
3. PAYMENT SHALL BE MADE UNDER:
   - 3.1. ITEM P-620-1 - PAVEMENT MARKINGS, TEMPORARY, YELLOW (PER SF)
   - 3.2. ITEM P-620-2 - PAVEMENT MARKINGS, PERMANENT, YELLOW, REFLECTIVE, INCLUDING MICROBICIDE (PER SF)
   - 3.3. ITEM P-620-3 - PAVEMENT MARKINGS, PERMANENT, WHITE, REFLECTIVE, INCLUDIN MICROBICIDE (PER SF)
   - 3.4. ITEM P-620-4 - PAVEMENT MARKINGS, TEMPORARY, BLACK (PER SF)
   - 3.5. ITEM P-620-5 - PAVEMENT MARKINGS, PERMANENT, BLACK, INCLUDING MICROBICIDE (PER SF)

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BYRNES
7-20-2021
PROFESSIONAL SEAL

REVISION RECORD

NO.	DESCRIPTION	DATE	BY

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

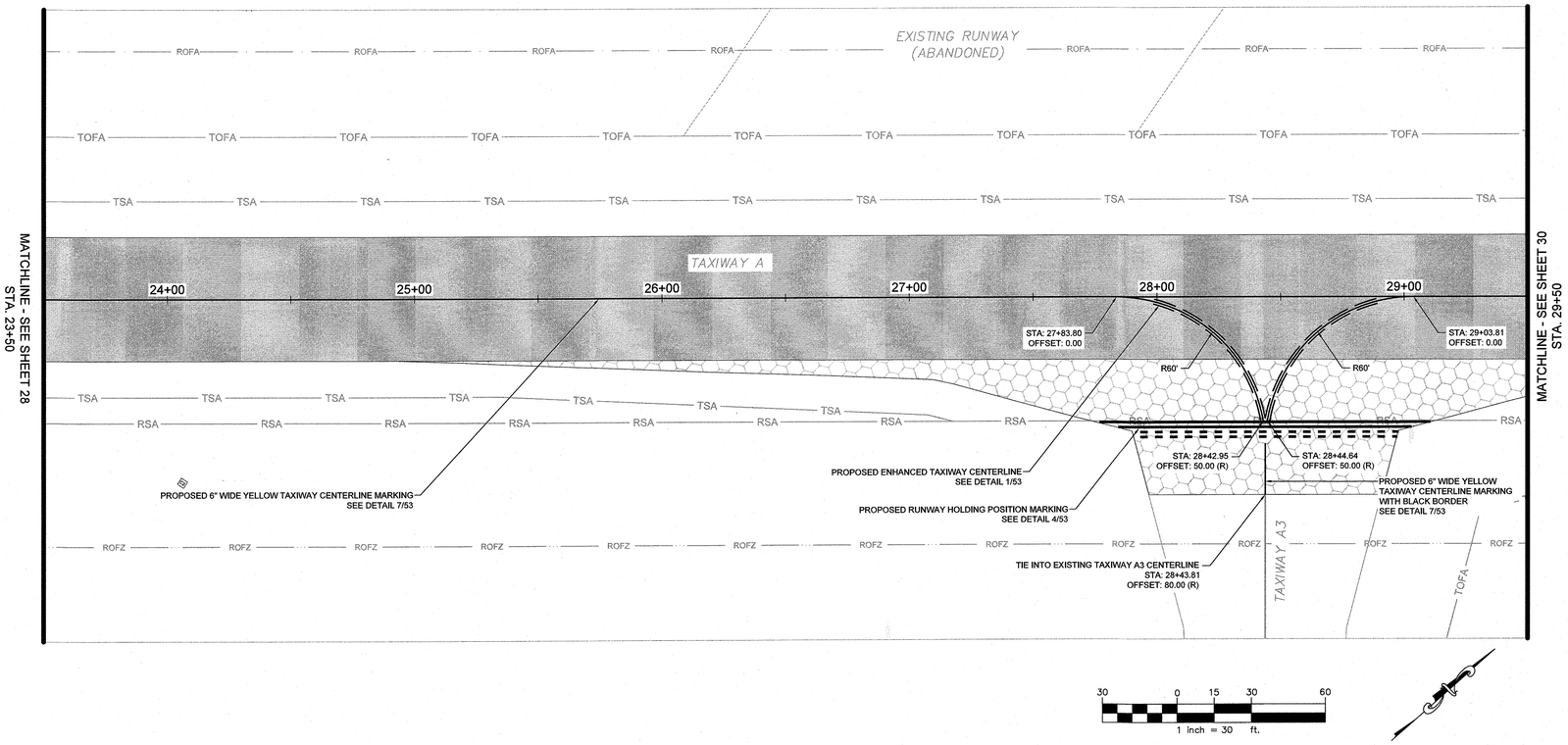
DRAWING TITLE: PAVEMENT MARKING PLAN

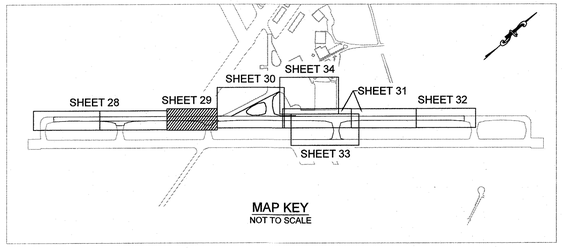
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
28 OF 40
WKD PROJ. NO.:
20200317.00.CA

FILE PATH:Z:\Projects\Airport\Spartanburg\20200317.00\CA - SPA Wk#19 Taxiway A Rehabilitation\CAD\Plan Set\Sheet Files\SPA_PAVEMENT MARKING PLAN.dwg, Plotted by:bgordon,Plotted on:8/3/2021 11:29:04 AM

COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENT OR THE DOCUMENT, IN ANY FORM, WITHOUT EXPRESS WRITTEN PERMISSION FROM W.K. DICKSON & CO., INC. IS PROHIBITED. ANY UNAUTHORIZED REPRODUCTION OR USE OF THIS DOCUMENT MAY RESULT IN LEGAL ACTION. COPIES MAY BE MADE FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL. ELECTRONIC COPIES SHALL NOT BE CONSIDERED TO BE VALID, TRUE COPIES.





LEGEND

RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
TSA	PROPOSED TAXIWAY SAFETY AREA
TOFA	PROPOSED TAXIWAY OBJECT FREE AREA
	PROPOSED ASPHALT PAVEMENT
	PROPOSED ASPHALT OVERLAY
	PROPOSED CONCRETE PAVEMENT

PAVEMENT MARKINGS GENERAL NOTES

1. ALL TAXIWAY PAVEMENT MARKINGS SHALL BE 6" WIDE YELLOW MARKINGS UNLESS OTHERWISE NOTED.
2. FOR THIS PROJECT, ALL YELLOW AND WHITE PAVEMENT MARKINGS ARE TO RECEIVE GLASS BEADS (TYPE I OR TYPE III) PER AC 150/5340-1M STANDARDS FOR AIRPORT MARKINGS.
3. PAYMENT SHALL BE MADE UNDER:
   - 3.1. ITEM P-620-1 - PAVEMENT MARKINGS, TEMPORARY, YELLOW (PER SF)
   - 3.2. ITEM P-620-2 - PAVEMENT MARKINGS, PERMANENT, YELLOW, REFLECTIVE, INCLUDING MICROBICIDE (PER SF)
   - 3.3. ITEM P-620-3 - PAVEMENT MARKINGS, PERMANENT, WHITE, REFLECTIVE, INCLUDIN MICROBICIDE (PER SF)
   - 3.4. ITEM P-620-4 - PAVEMENT MARKINGS, TEMPORARY, BLACK (PER SF)
   - 3.5. ITEM P-620-5 - PAVEMENT MARKINGS, PERMANENT, BLACK, INCLUDING MICROBICIDE (PER SF)

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRMINGHAM
7-20-2021
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT
SPARTANBURG, SC

DRAWING TITLE: PAVEMENT MARKING PLAN

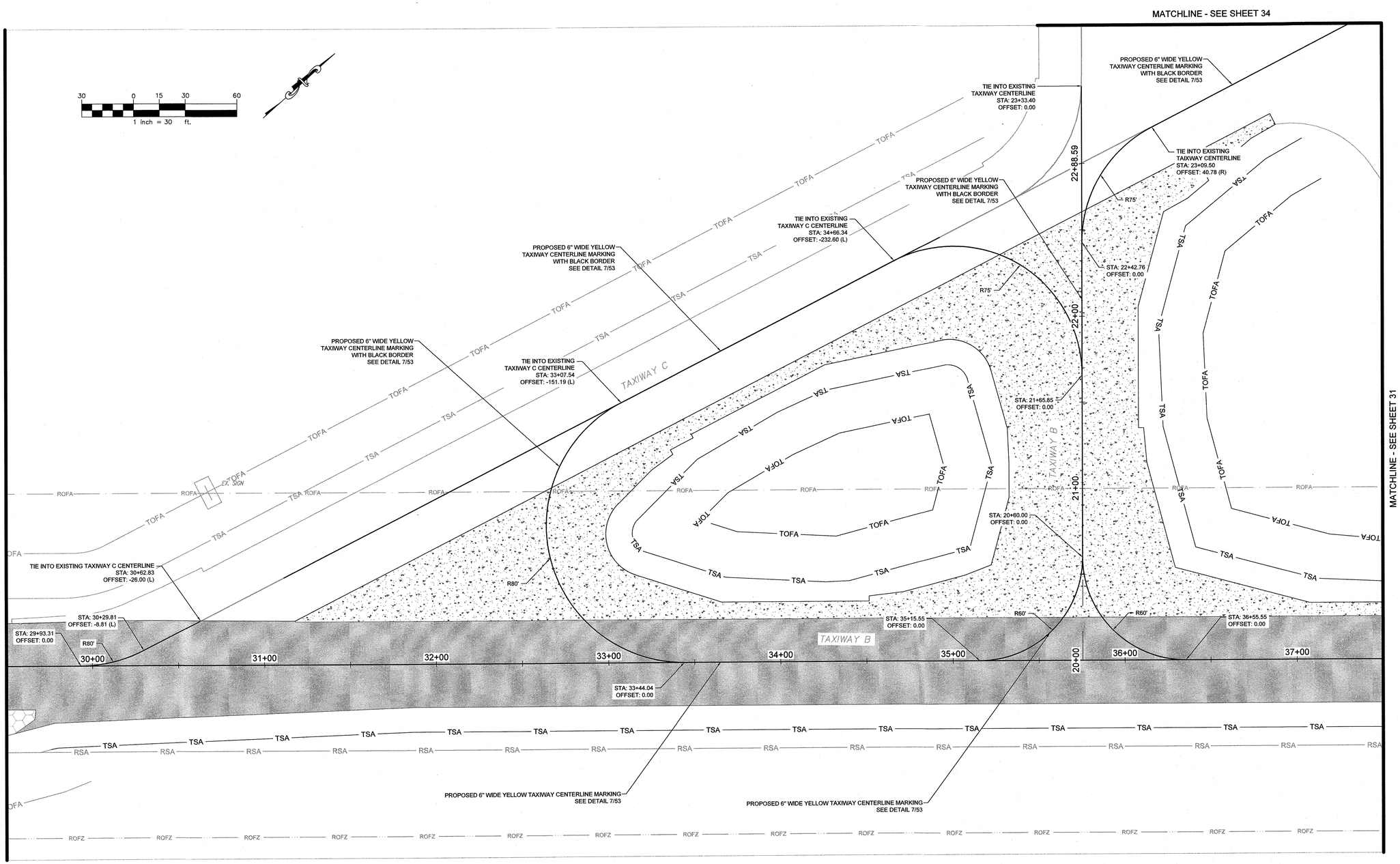
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

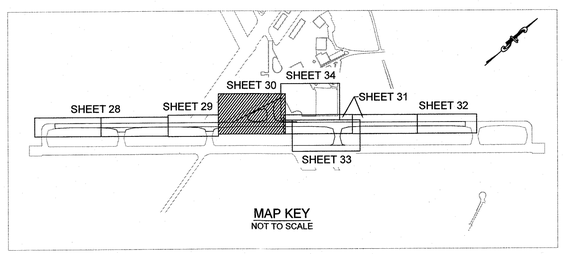
DRAWING NUMBER:
29 OF 40
WKD PROJ. NO.:
20200317.00.CA

FILE PATH: C:\Projects\Airports\Spartanburg\20200317.00CA - SPA Wolf 13 Taxiway A Rehabilitation\CAD\Pav Set\Sheet Files\A PAVEMENT MARKING PLAN.dwg, A PAVEMENT MARKING PLAN, 4/20/2021 11:01:10 AM

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENT OF THIS DOCUMENT, ADDITIONS OR REVISIONS THERETO, IN ANY FORM OR BY ANY MEANS WHATSOEVER, WITHOUT THE EXPRESS WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. AND ITS AUTHORIZED SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VOID. W.K. DICKSON.

FILENAME: P:\projects\projects\projects\20200317.00\CA - SPA Martin's Taxiway A Rehabilitation-CA\07\Tax lay\Sheet Files\PAVEMENT MARKING PLAN.dwg, ACADVER: 24.0s (LMS Tech), DWG: A.BERRIER, LAYOUT: MARKING PLAN.dwg, ACADVER: 24.0s (LMS Tech), DWG: A.BERRIER, LAYOUT: MARKING PLAN, 4/23/2021 11:37:29 AM





LEGEND

- EXISTING RUNWAY SAFETY AREA (RSA)
- EXISTING RUNWAY OBJECT FREE AREA (ROFA)
- EXISTING TAXIWAY SAFETY AREA (TSA)
- EXISTING TAXIWAY OBJECT FREE AREA (TOFA)
- PROPOSED TAXIWAY SAFETY AREA (TSA)
- PROPOSED TAXIWAY OBJECT FREE AREA (TOFA)
- PROPOSED ASPHALT PAVEMENT
- PROPOSED ASPHALT OVERLAY

PAVEMENT MARKINGS GENERAL NOTES

1. ALL TAXIWAY PAVEMENT MARKINGS SHALL BE 6" WIDE YELLOW MARKINGS UNLESS OTHERWISE NOTED.
2. FOR THIS PROJECT, ALL YELLOW AND WHITE PAVEMENT MARKINGS ARE TO RECEIVE GLASS BEADS (TYPE I OR TYPE III) PER AC 150/5340-1M STANDARDS FOR AIRPORT MARKINGS.
3. PAYMENT SHALL BE MADE UNDER:
   - 3.1. ITEM P-620-1 - PAVEMENT MARKINGS, TEMPORARY, YELLOW (PER SF)
   - 3.2. ITEM P-620-2 - PAVEMENT MARKINGS, PERMANENT, YELLOW, REFLECTIVE, INCLUDING MICROBICIDE (PER SF)
   - 3.3. ITEM P-620-3 - PAVEMENT MARKINGS, PERMANENT, WHITE, REFLECTIVE, INCLUDIN MICROBICIDE (PER SF)
   - 3.4. ITEM P-620-4 - PAVEMENT MARKINGS, TEMPORARY, BLACK (PER SF)
   - 3.5. ITEM P-620-5 - PAVEMENT MARKINGS, PERMANENT, BLACK, INCLUDING MICROBICIDE (PER SF)

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRKMEYER
4-23-21
PROFESSIONAL SEAL

NO.	DESCRIPTION	BY	DATE

REVISION RECORD

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

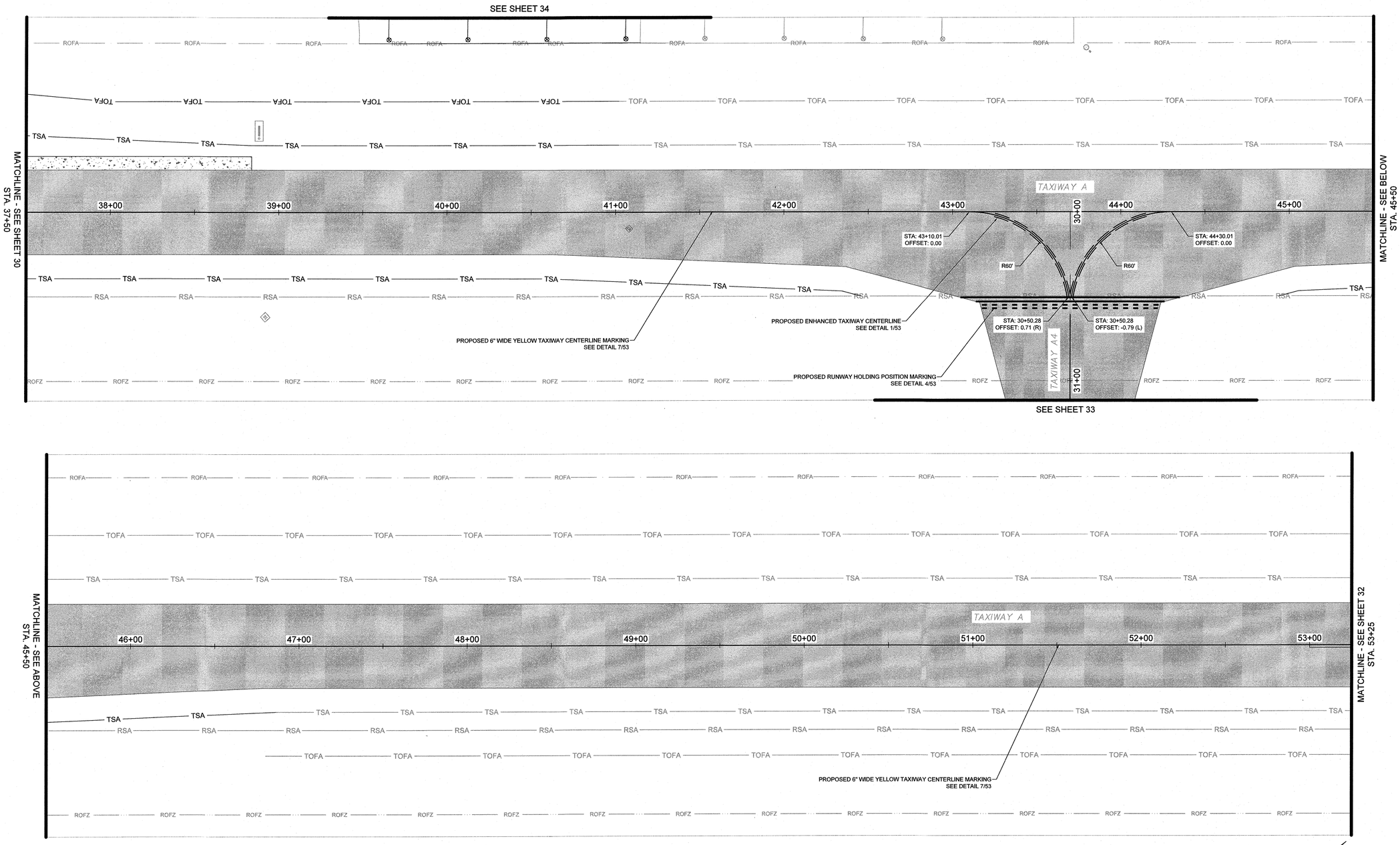
PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

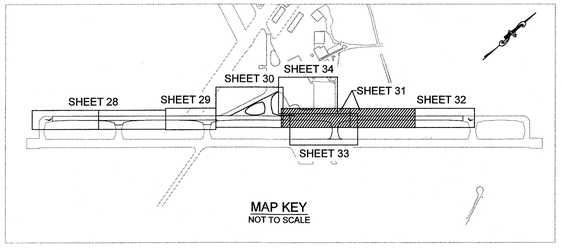
DRAWING TITLE: PAVEMENT MARKING PLAN

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
30 OF 40
WKD PROJ. NO.:
20200317.00.CA

COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENTS OF THIS DOCUMENT BY ANY METHOD, ELECTRONIC OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. ANY REPRODUCTION OF THIS DOCUMENT, IN WHOLE OR IN PART, SHALL BE IDENTIFIED AS BEING DERIVED FROM THE ORIGINAL OF THE DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VALID, TRUE COPIES.





LEGEND

- RSA — EXISTING RUNWAY SAFETY AREA
- ROFA — EXISTING RUNWAY OBJECT FREE AREA
- TSA — EXISTING TAXIWAY SAFETY AREA
- TOFA — EXISTING TAXIWAY OBJECT FREE AREA
- TSA — PROPOSED TAXIWAY SAFETY AREA
- TOFA — PROPOSED TAXIWAY OBJECT FREE AREA
- PROPOSED ASPHALT PAVEMENT
- PROPOSED ASPHALT OVERLAY

30 0 15 30 60
1 Inch = 30 ft.

PAVEMENT MARKINGS GENERAL NOTES

1. ALL TAXIWAY PAVEMENT MARKINGS SHALL BE 6" WIDE YELLOW MARKINGS UNLESS OTHERWISE NOTED.
2. FOR THIS PROJECT, ALL YELLOW AND WHITE PAVEMENT MARKINGS ARE TO RECEIVE GLASS BEADS (TYPE I OR TYPE III) PER AC 150/5340-1M STANDARDS FOR AIRPORT MARKINGS.
3. PAYMENT SHALL BE MADE UNDER:
   - 3.1. ITEM P-620-1 - PAVEMENT MARKINGS, TEMPORARY, YELLOW (PER SF)
   - 3.2. ITEM P-620-2 - PAVEMENT MARKINGS, PERMANENT, YELLOW, REFLECTIVE, INCLUDING MICROBICIDE (PER SF)
   - 3.3. ITEM P-620-3 - PAVEMENT MARKINGS, PERMANENT, WHITE, REFLECTIVE, INCLUDIN MICROBICIDE (PER SF)
   - 3.4. ITEM P-620-4 - PAVEMENT MARKINGS, TEMPORARY, BLACK (PER SF)
   - 3.5. ITEM P-620-5 - PAVEMENT MARKINGS, PERMANENT, BLACK, INCLUDING MICROBICIDE (PER SF)

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BYRNE
12-20-2021
PROFESSIONAL SEAL

REVISION RECORD

NO.	DESCRIPTION	DATE	BY

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

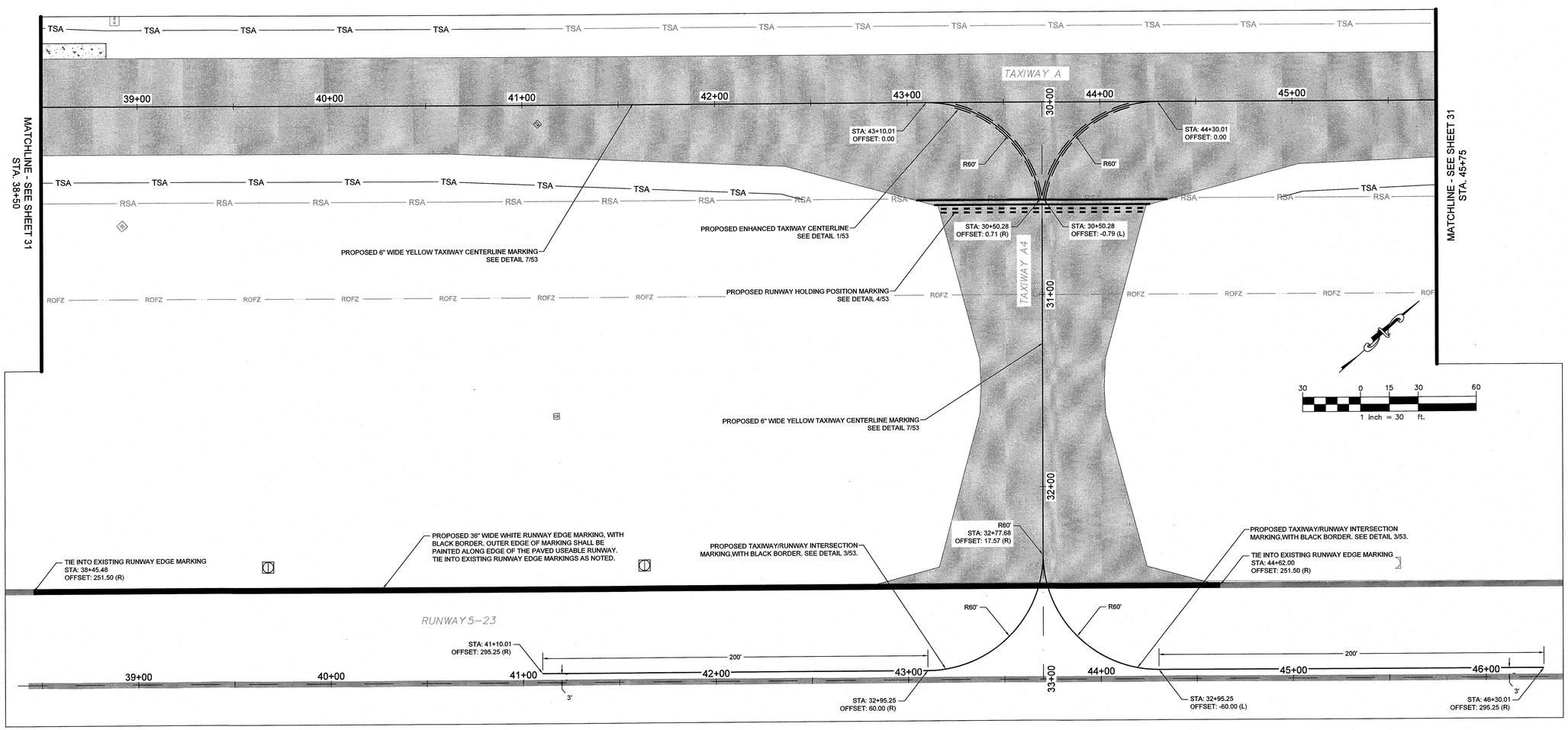
DRAWING TITLE: PAVEMENT MARKING PLAN

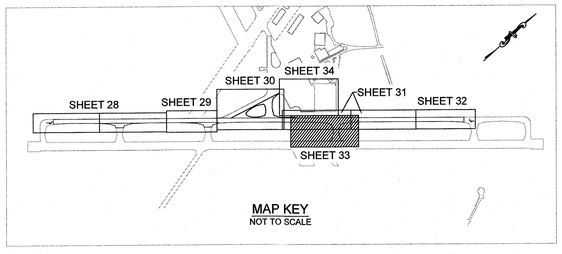
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
31 OF 40
WKD PROJ. NO.:
20200317.00.CA

FILE:H:\C3 Projects\Airport\Spartanburg\20200317\00CA - SPA Wk#15 Taxiway A Rehab\Admin\CAD\Rev Set\Sheet Files\06 PAVEMENT MARKING PLAN.dwg-Rev2-Property Airport\Spartanburg\20200317\00CA - SPA Wk#15 Taxiway A Rehab\Admin\CAD\Rev Set\Sheet Files\06 PAVEMENT MARKING PLAN.dwg, 5/5/2021 11:21:58 AM

COPYRIGHT © WK DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR ALTERATIONS TO ITS CONTENTS, OR DELIVERY TO ANY THIRD PARTY, WITHOUT THE EXPRESS WRITTEN PERMISSION OF WK DICKSON & CO., INC. IS PROHIBITED. ANY UNAUTHORIZED USE, ADDITIONS OR ALTERATIONS TO, OR DELIVERY OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VOID. TRUE COPIES FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VALID. TRUE COPIES.





MAP KEY
NOT TO SCALE

LEGEND

- RSA — EXISTING RUNWAY SAFETY AREA
- ROFA — EXISTING RUNWAY OBJECT FREE AREA
- TSA — EXISTING TAXIWAY SAFETY AREA
- TOFA — EXISTING TAXIWAY OBJECT FREE AREA
- TSA — PROPOSED TAXIWAY SAFETY AREA
- TOFA — PROPOSED TAXIWAY OBJECT FREE AREA
- PROPOSED ASPHALT PAVEMENT
- PROPOSED ASPHALT OVERLAY
- PROPOSED CONCRETE PAVEMENT

PAVEMENT MARKINGS GENERAL NOTES

1. ALL TAXIWAY PAVEMENT MARKINGS SHALL BE 6" WIDE YELLOW MARKINGS UNLESS OTHERWISE NOTED.
2. FOR THIS PROJECT, ALL YELLOW AND WHITE PAVEMENT MARKINGS ARE TO RECEIVE GLASS BEADS (TYPE I OR TYPE III) PER AC 150/5340-1M STANDARDS FOR AIRPORT MARKINGS.
3. PAYMENT SHALL BE MADE UNDER:
   - 3.1. ITEM P-620-1 - PAVEMENT MARKINGS, TEMPORARY, YELLOW (PER SF)
   - 3.2. ITEM P-620-2 - PAVEMENT MARKINGS, PERMANENT, YELLOW, REFLECTIVE, INCLUDING MICROBICIDE (PER SF)
   - 3.3. ITEM P-620-3 - PAVEMENT MARKINGS, PERMANENT, WHITE, REFLECTIVE, INCLUDIN MICROBICIDE (PER SF)
   - 3.4. ITEM P-620-4 - PAVEMENT MARKINGS, TEMPORARY, BLACK (PER SF)
   - 3.5. ITEM P-620-5 - PAVEMENT MARKINGS, PERMANENT, BLACK, INCLUDING MICROBICIDE (PER SF)

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC.
No. C00177
C.O.A.

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRKMEYER
4-12-2021
PROFESSIONAL SEAL

NO.	DESCRIPTION	DATE	BY

REVISION RECORD

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT
SPARTANBURG, SC

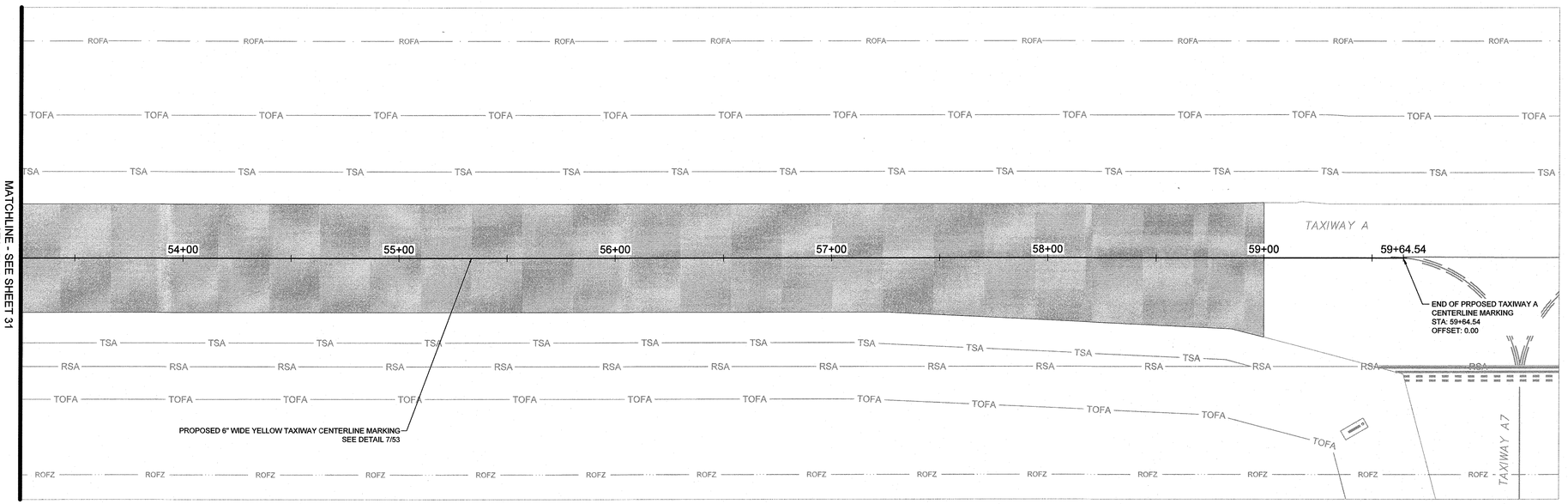
DRAWING TITLE: PAVEMENT MARKING PLAN

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
33 OF 40
WKD PROJ. NO.:
20200317.00.CA

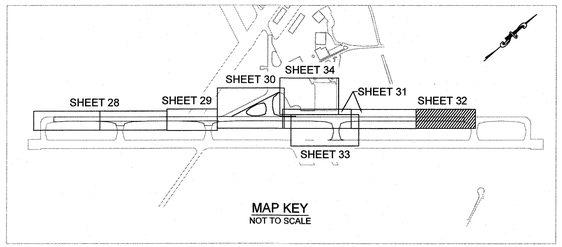
FILE PATH Z:\Projects\Airports\spg\20200317\00CA - SPA MAP\3 Tasks\1 Rehabilitation\CAD\Rw Safe\Sheet Files\A PAVEMENT MARKING PLAN.dwg, ACADVER, 4.5(LMS Tech), 4/12/2021 11:08:19 AM, KEVIN.MCCARTHY

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR MODIFICATIONS TO THE CONTENTS OF THIS DOCUMENT BY ANY METHOD WITHOUT THE EXPRESS WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ANY COPIES MADE FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID, TRUE COPIES.



30 0 15 30 60

1 inch = 30 ft.



MAP KEY
NOT TO SCALE

LEGEND

RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
TSA	PROPOSED TAXIWAY SAFETY AREA
TOFA	PROPOSED TAXIWAY OBJECT FREE AREA
	PROPOSED ASPHALT PAVEMENT
	PROPOSED ASPHALT OVERLAY
	PROPOSED CONCRETE PAVEMENT

PAVEMENT MARKINGS GENERAL NOTES

1. ALL TAXIWAY PAVEMENT MARKINGS SHALL BE 6" WIDE YELLOW MARKINGS UNLESS OTHERWISE NOTED.
2. FOR THIS PROJECT, ALL YELLOW AND WHITE PAVEMENT MARKINGS ARE TO RECEIVE GLASS BEADS (TYPE I OR TYPE III) PER AC 150/5340-1M STANDARDS FOR AIRPORT MARKINGS.
3. PAYMENT SHALL BE MADE UNDER:
   - 3.1. ITEM P-620-1 - PAVEMENT MARKINGS, TEMPORARY, YELLOW (PER SF)
   - 3.2. ITEM P-620-2 - PAVEMENT MARKINGS, PERMANENT, YELLOW, REFLECTIVE, INCLUDING MICROBICIDE (PER SF)
   - 3.3. ITEM P-620-3 - PAVEMENT MARKINGS, PERMANENT, WHITE, REFLECTIVE, INCLUDIN MICROBICIDE (PER SF)
   - 3.4. ITEM P-620-4 - PAVEMENT MARKINGS, TEMPORARY, BLACK (PER SF)
   - 3.5. ITEM P-620-5 - PAVEMENT MARKINGS, PERMANENT, BLACK, INCLUDING MICROBICIDE (PER SF)

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRKNER
4-20-21
PROFESSIONAL SEAL

NO.	DATE	DESCRIPTION
A9		

REVISION RECORD

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: PAVEMENT MARKING PLAN

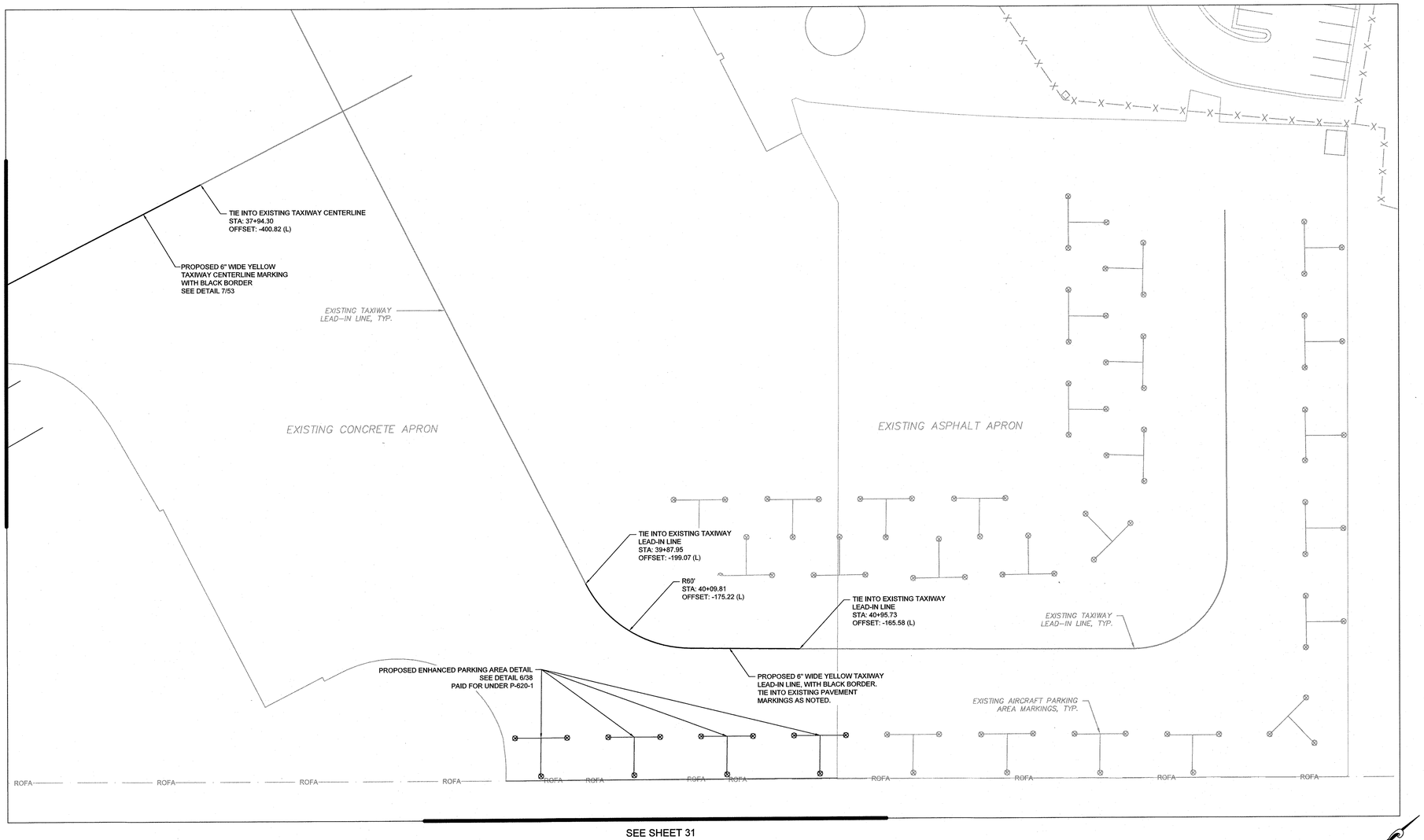
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
32 OF 40
WKD PROJ. NO.:
20200317.00.CA

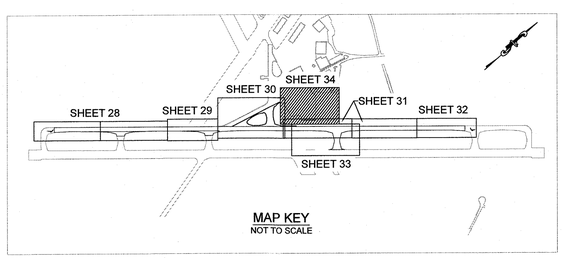
ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

FILE PATH:C:\Projects\Airport\Spartanburg\20200317\00CA - SPA HAA13 Taxiway A Rehabilitation\CADD\Plan Set\Sheet Files\04 PAVEMENT MARKING PLAN.dwg,C:\Projects\Airport\Spartanburg\20200317\00CA - SPA HAA13 Taxiway A Rehabilitation\CADD\Plan Set\Sheet Files\04 PAVEMENT MARKING PLAN.dwg, 4/20/2021 11:02:38 AM

COPYRIGHT © 2021 DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR MODIFICATIONS TO THE CONTENTS OF THIS DOCUMENT, OR DISTRIBUTION OF THIS DOCUMENT IN WHOLE OR IN PART WITHOUT PERMISSION FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VOID. TITLE COPIES.



30 0 15 30 60
1 inch = 30 ft.



MAP KEY
NOT TO SCALE

LEGEND

RSA	EXISTING RUNWAY SAFETY AREA
ROFA	EXISTING RUNWAY OBJECT FREE AREA
TSA	EXISTING TAXIWAY SAFETY AREA
TOFA	EXISTING TAXIWAY OBJECT FREE AREA
TSA	PROPOSED TAXIWAY SAFETY AREA
TOFA	PROPOSED TAXIWAY OBJECT FREE AREA
	PROPOSED ASPHALT PAVEMENT
	PROPOSED ASPHALT OVERLAY
	PROPOSED CONCRETE PAVEMENT

PAVEMENT MARKINGS GENERAL NOTES

1. ALL TAXIWAY PAVEMENT MARKINGS SHALL BE 6" WIDE YELLOW MARKINGS UNLESS OTHERWISE NOTED.
2. FOR THIS PROJECT, ALL YELLOW AND WHITE PAVEMENT MARKINGS ARE TO RECEIVE GLASS BEADS (TYPE I OR TYPE III) PER AC 150/5340-1M STANDARDS FOR AIRPORT MARKINGS.
3. PAYMENT SHALL BE MADE UNDER:
   - 3.1. ITEM P-620-1 - PAVEMENT MARKINGS, TEMPORARY, YELLOW (PER SF)
   - 3.2. ITEM P-620-2 - PAVEMENT MARKINGS, PERMANENT, YELLOW, REFLECTIVE, INCLUDING MICROBICIDE (PER SF)
   - 3.3. ITEM P-620-3 - PAVEMENT MARKINGS, PERMANENT, WHITE, REFLECTIVE, INCLUDIN MICROBICIDE (PER SF)
   - 3.4. ITEM P-620-4 - PAVEMENT MARKINGS, TEMPORARY, BLACK (PER SF)
   - 3.5. ITEM P-620-5 - PAVEMENT MARKINGS, PERMANENT, BLACK, INCLUDING MICROBICIDE (PER SF)

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BRINKMEYER
4-20-2021
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT
SPARTANBURG, SC

DRAWING TITLE: PAVEMENT MARKING PLAN

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
34 OF 40
WKD PROJ. NO.:
20200317.00.CA

FILE:N:\Z Projects\Airport\Spartanburg\20200317\DGN - SPA Rnwy9-27 Taxiway A Rehab\Sheet Files\04 PAVEMENT MARKING PLAN.dwg ACAD/R24, 4/20/2021 11:28:58 AM

COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENT OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENT OF THIS DOCUMENT BY ANY METHOD OR IN ANY FORM, INCLUDING BUT NOT LIMITED TO ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING, OR OTHERWISE WITHOUT THE PRIOR WRITTEN PERMISSION OF WK DICKSON & CO., INC. IS PROHIBITED. ANY REPRODUCTION OF THIS DOCUMENT, IN WHOLE OR IN PART, MUST BE MADE FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VALID. "WK DICKSON"

PLOTTED: 2/12/2021 11:05:04 AM BY: Kelly Mc... LOGIN NAME: LP:\NEW\Projects\Spartanburg\20200317\DGN\S... SPLAN01 Tranes: X:\Models\Base\CAD\Per Sid\Shee Plan.dgn Z:\Projects\Spartanburg\20200317\DGN\... SPLAN01 Tranes: X:\Models\Base\CAD\Per Sid\Shee Plan.dgn - PROJECT DETAILS.dwg PLOT DETAILS.dwg PLOTSCRIPT: ANSI full bleed D (24.00 x 36.00 Inches).ctb PLOTTED BY: Kelly McCarthy FILE PATH: Z:\Projects\Spartanburg\20200317\DGN\S... SPLAN01 Tranes: X:\Models\Base\CAD\Per Sid\Shee Plan.dgn - PROJECT DETAILS.dwg PLOT DETAILS.dwg PLOTSCRIPT: ANSI full bleed D (24.00 x 36.00 Inches).ctb PLOTTED BY: Kelly McCarthy

SCDHEC EROSION AND SEDIMENT CONTROL NOTES:

1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
   - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
   - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY CONSTRUCTED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.

8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

11. A COPY OF THE SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE;

15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).

16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
    WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
    WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
    FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
    SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS ORANGEBURG COUNTY HAS APPROVED OTHERWISE.

20. CONTRACTORS ARE REQUIRED TO HAVE RAIN GAUGES AT THE CONSTRUCTION SITE AND THE RAIN TOTALS DOCUMENTED FOR REVIEW BY RICHLAND COUNTY AND SCDHEC.

21. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD WITH ORANGEBURG COUNTY AT LEAST 48 HOURS PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES. THE OWNER, DESIGN ENGINEER AND CONTRACTOR MUST BE PRESENT AND HAVE OBTAINED THE STORMWATER PERMIT, STAMPED APPROVED PLANS AND THE N.O.I APPROVAL LETTER FROM SCDHEC BEFORE CALLING ORANGEBURG COUNTY TO SCHEDULE THIS MEETING.

SITE WORK, GRADING AND EROSION CONTROL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL CABLE, CONDUITS, DUCTS AND SIMILAR ITEMS PRIOR TO COMMENCING EXCAVATION WORK. ANY DAMAGE TO EXISTING CABLES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR TO THE SATISFACTION OF THE OWNER AND AT NO COST TO THE OWNER.

2. THE CONTRACTOR SHALL CONTACT THE UTILITY LOCATOR COMPANY TO LOCATE CABLES IN THE PROJECT AREAS PRIOR TO ANY CONSTRUCTION BEGINNING.

3. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES THROUGHOUT THE LIFE OF THE PROJECT, AND PROVIDE PERIODIC CLEANOUT AS NECESSARY. THE CONTRACTOR SHALL INSPECT ALL DEVICES EVERY SEVEN (7) CALENDAR DAYS OR AFTER EACH RAINFALL EVENT THAT EXCEEDS 1/2 INCH (0.5"). SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCES WHEN IT BECOMES ABOUT 1/2 FOOT (0.5') DEEP AT THE FENCE. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED, AS NECESSARY.

4. CONTRACTOR SHALL LIMIT AREAS OF DISTURBANCE AS MUCH AS POSSIBLE DURING THE COURSE OF THE PROJECT, AND STABILIZE AREAS AS WORK IS COMPLETED. NO SEPARATE MEASUREMENT WILL BE MADE FOR PAYMENT FOR AREAS REQUIRING PERMANENT SEEDING OUTSIDE OF THE LIMITS OF CONSTRUCTION.

5. ALL DISTURBED AREAS, INCLUDING THE CONTRACTORS STAGING AREA, HAUL ROUTES, GRADING LIMITS, ETC., SHALL BE RESTORED TO A SMOOTH LINE AND GRADE WITH POSITIVE DRAINAGE. THE CONTRACTOR SHALL PERMANENTLY SEED ALL DISTURBED AREAS.

6. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY FOR REMOVAL/RELOCATION OF EXISTING UTILITIES THAT ARE WITHIN THE PROPOSED WORK AREAS.

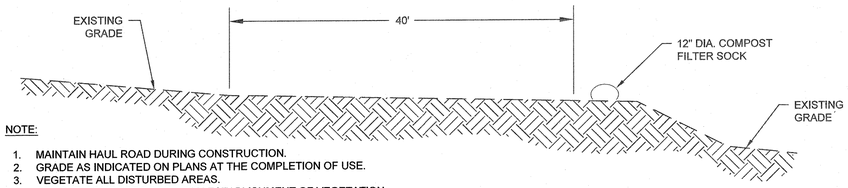
7. AREAS REQUIRING TOPSOIL STRIPPING SHALL BE STRIPPED AND STOCKPILED IN AN AREA APPROVED BY THE ENGINEER AND PROTECTED FROM EROSION.

8. ALL EROSION CONTROL METHODS SHALL BE IN ACCORDANCE WITH "SOUTH CAROLINA STORM WATER MANAGEMENT & SEDIMENT CONTROL BMP HANDBOOK FOR LAND DISTURBANCE ACTIVITY".

9. IN ADDITION TO THE SEDIMENTATION AND EROSION CONTROL MEASURES AS SET FORTH IN THE PLANS AND SPECIFICATIONS, BEST MANAGEMENT PRACTICES FOR SEDIMENTATION AND EROSION CONTROL SHALL BE UTILIZED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PLACE ADDITIONAL CONTROL DEVICES, AS NECESSARY DURING CONSTRUCTION, IN ORDER TO CONTROL EROSION AND/OR OFF SITE SEDIMENTATION. ALL DISTURBED AREAS SHALL BE CLEAN, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE GRADING IS COMPLETED.

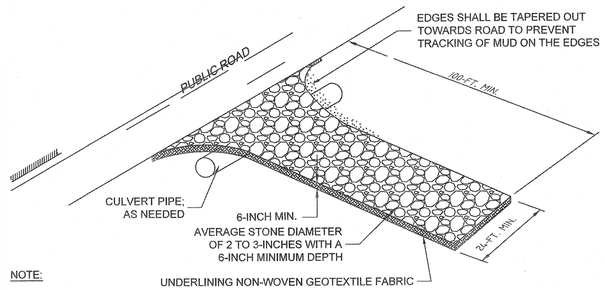
10. THE CONTRACTOR IS RESPONSIBLE FOR WATERING ALL GRASSED AREAS UNTIL PERMANENT VEGETATION IS ESTABLISHED.

11. CONTRACTOR SHALL CONTROL DUST AS MUCH AS POSSIBLE. CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING CONCERNS OF ADJACENT PROPERTY OWNERS. THERE SHALL BE NO PAYMENT MADE TO CONTRACTOR FOR THE REMEDY OF PROPERTY OWNER CONCERNS DUE TO CONSTRUCTION EFFORTS.



NOTE:
1. MAINTAIN HAUL ROAD DURING CONSTRUCTION.
2. GRADE AS INDICATED ON PLANS AT THE COMPLETION OF USE.
3. VEGETATE ALL DISTURBED AREAS.
4. REMOVE COMPOST SOCK UPON ESTABLISHMENT OF VEGETATION.
5. HAUL ROUTE INSTALLATION, MAINTENANCE AND REMOVAL SHALL BE INCIDENTAL TO MOBILIZATION.
6. HAUL ROUTE SHALL BE RESTORED TO EXISTING CONDITIONS UPON COMPLETION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.

1/35 TYPICAL HAUL ROAD SECTION
NOT TO SCALE



NOTE:
1. INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
2. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING STRUCTURE.
3. TEMPORARY CONSTRUCTION ENTRANCE (INSTALLATION, MAINTENANCE AND REMOVAL) SHALL BE PAID FOR UNDER ITEM C-102-1.
4. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE RESTORED TO EXISTING CONDITIONS UPON COMPLETION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.

PLAN SYMBOL

WHEN AND WHERE TO USE IT

STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD.

IMPORTANT CONSIDERATIONS

IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFFSITE.
WASHDOWN FACILITIES SHALL BE REQUIRED AS DIRECTED BY SCDHEC AS NEEDED.
WASHDOWN AREAS IN GENERAL MUST BE ESTABLISHED WITH CRUSHED GRAVEL AND DRAIN INTO A SEDIMENT TRAP OR SEDIMENT BASIN.
CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY VEHICLES.

INSTALLATION:

REMOVE ALL VEGETATION AND ANY OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.
DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM STONES TO A SEDIMENT TRAP OR BASIN.
INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY STONE.
INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
THE ENTRANCE SHALL CONSIST OF 1-INCH TO 3-INCH D50 STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES. MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 24-FEET WIDE BY 100-FEET LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.
THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING OF MUD AT THE EDGE OF THE ENTRANCE.

INSPECTION AND MAINTENANCE:

INSPECT ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY.
MAKE DAILY INSPECTIONS DURING PERIODS OF WET WEATHER. MAINTENANCE IS REQUIRED MORE FREQUENTLY IN WET WEATHER CONDITIONS.
RESHAPE THE STONE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
WASH OR REPLACE STONES AS NEEDED AND AS DIRECTED BY THE INSPECTOR. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE.
IMMEDIATELY REMOVING MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING.
FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.
REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

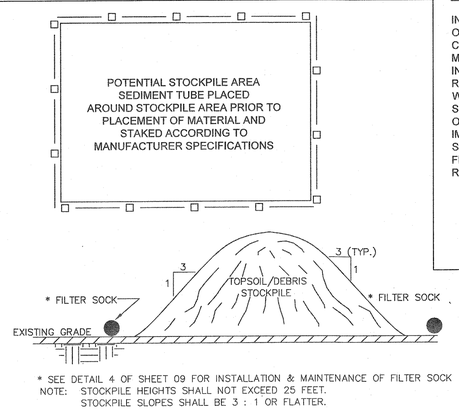
2/35 TEMPORARY CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE

SEQUENCE OF CONSTRUCTION

INITIAL EROSION CONTROL SEQUENCE
1. RECEIVE NPDES COVERAGE FROM SCDHEC AND/OR LOCAL MS4.
2. CONDUCT ON-SITE PRE-CONSTRUCTION MEETING.
3. NOTIFY SCDHEC EQC REGIONAL EQC OFFICE 48 HOURS PRIOR TO BEGINNING LAND DISTURBANCE ACTIVITIES. MAY ALSO REQUIRE LOCAL REGULATORY NOTIFICATION.
4. CLEARING AND GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS.
5. INSTALL PRELIMINARY EROSION CONTROLS (SEDIMENT BASINS, DIVERSION DITCHES, ETC.) AND TEMPORARY CONSTRUCTION ENTRANCES IN CONJUNCTION WITH CLEARING AND GRUBBING. SEDIMENT BASINS SHALL BE INSTALLED AND FUNCTIONING PROPERLY PRIOR TO MOVING FORWARD WITH CLEARING AND GRUBBING.
6. CLEAR AND GRUB ALL WOODED AREAS LOCATED WITHIN THE LIMITS OF DISTURBANCE.
7. BEGIN PERFORMING SCDHEC SWPPP INSPECTIONS AT BEGINNING OF LAND DISTURBING ACTIVITIES AND CONTINUE UNTIL SITE IS PERMANENTLY STABILIZED.

CONSTRUCTION EROSION CONTROL SEQUENCE
1. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES AND CONTINUE WEEKLY SCDHEC SWPPP INSPECTIONS UNTIL SITE IS PERMANENTLY STABILIZED.
2. PREPARE CONSTRUCTION STAGING AREA.
3. CONDUCT REMAINDER OF GRADING OPERATIONS. LIMIT THE AMOUNT OF EXPOSED SOIL BY INITIATING STABILIZATION MEASURES AS CONSTRUCTION PROGRESSES.
4. CONTINUE SCDHEC WEEKLY SWPPP INSPECTIONS UNTIL SITE IS PERMANENTLY STABILIZED.

STABILIZATION EROSION CONTROL SEQUENCE
1. AFTER CONSTRUCTION OF SITE IMPROVEMENTS WITHIN AN AREA, BEGIN STABILIZATION BY PREPARING PROPER SEEDBED AND BEGIN PERMANENT GRASSING.
2. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER AREA DRAINING TO STRUCTURE IS STABILIZED.
3. UPON COMPLETE STABILIZATION OF THE SITE, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES, INCLUDING TEMPORARY SEDIMENT DAMS 1-3. RE-STABILIZE AREA WHERE SEDIMENT BASINS ARE REMOVED.
4. SUBMIT TO THE ENGINEER AN AS-BUILT FIELD SURVEY BY A REGISTERED LAND SURVEYOR OF ALL PERMANENT STORMWATER IMPROVEMENTS.
5. SUBMIT NOTICE OF TERMINATION TO SCDHEC AS APPROPRIATE.

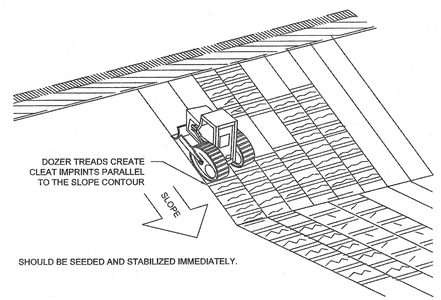


* SEE DETAIL 4 OF SHEET 09 FOR INSTALLATION & MAINTENANCE OF FILTER SOCK
NOTE: STOCKPILE HEIGHTS SHALL NOT EXCEED 25 FEET.
STOCKPILE SLOPES SHALL BE 3 : 1 OR FLATTER.

INSTALLATION AND MAINTENANCE NOTES:

1. FILTER SOCK TO EXTEND AROUND THE ENTIRE PERIMETER OF STOCKPILE, OR IF STOCKPILE AREA IS LOCATED ON/NEAR A SLOPE THE FILTER SOCK IS TO EXTEND ALONG CONTOURS OF THE DOWN-GRADIENT AREA.
2. IF STOCKPILE IT TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY STABILIZATION MEASURES MUST BE IMPLEMENTED.
3. FILTER SOCK SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.
4. THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
5. STOCKPILE AREA SHALL BE INCIDENTAL TO MOBILIZATION.
6. FILTER SOCK ASSOCIATED WITH STOCKPILE AREAS TO MAINTAIN SEDIMENT AND EROSION CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

3/35 STOCKPILE STORAGE AREA DETAIL
NOT TO SCALE



4/35 TRACKING DETAIL
NOT TO SCALE

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRKMEIER
2-12-21
PROFESSIONAL SEAL

NO.	DESCRIPTION	DATE	BY

REVISION RECORD

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT
SPARTANBURG, SC

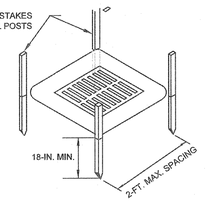
DRAWING TITLE: EROSION CONTROL DETAILS

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER: 35 OF 40

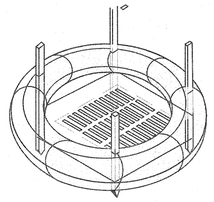
WKD PROJ. NO.: 20200317.00.CA

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENTS OF THIS DOCUMENT BY ANY METHOD, ELECTRONIC OR MECHANICAL, WITHOUT THE EXPRESS WRITTEN PERMISSION FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VOID. TRUE COPIES.



POST INSTALLATION DETAIL

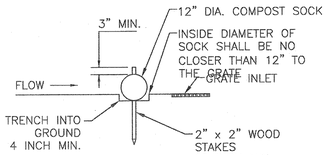
NOT TO SCALE



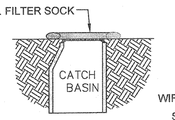
FILTER SOCK INSTALLATION DETAIL

NOT TO SCALE

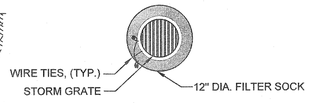
NOTE:
WHEN JOINING TWO SEPARATE PIECES OF COMPOST SOCK, PROVIDE A MINIMUM 12" OVERLAP. SOCKS SHALL BE STAKED AT THE OVERLAPPED AREA TO KEEP THE SECTIONS TOGETHER.



ENTRENCHED INSTALLATION



DRAIN INLET SECTION



DRAIN INLET PLAN

NOTES:

1. FILTER SOCK INLET PROTECTION SHALL BE PLACED AS DIRECTED BY THE ENGINEER OR THE RESIDENT PROJECT REPRESENTATIVE (RPR) TO PREVENT THE DISCHARGE OF SOIL INTO WETLANDS AND/OR STREAMS THROUGH DRAINAGE STUCTURES.
2. ONCE FINAL STABILIZATION IS ACHIEVED, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE STAKES, CUT MESH FOR FILTER SOCK AND SPREAD MULCH ON THE SURROUNDING GROUND. IF A NON-BIODEGRADABLE MESH IS USED, THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF THE MESH.
3. INSTALLATION, MAINTENANCE AND REMOVAL OF TEMPORARY FILTER SOCK INLET PROTECTION SHALL BE PAID UNDER ITEM C-102-3.

INSPECTION AND MAINTENANCE:

1. THE KEY TO FUNCTIONAL INLET PROTECTION IS WEEKLY INSPECTION, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
2. REGULAR INSPECTIONS OF SEDIMENT TUBE SHALL BE CONDUCTED ONCE EVER CALENDAR WEEK AND, AS RECOMMENDED, WITH 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½ INCH OR MORE OF PRECIPITATION.
3. ATTENTION TO SEDIMENT ACCUMULATION IN FRONT OF THE SEDIMENT TUBE IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
4. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ½ HEIGHTS OF THE SEDIMENT TUBE. WHEN A SUMP IS INSTALLED IN FRONT OF THE TUBE, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY ½ THE DEPTH OF THE SUMP.
5. REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
6. LARGE DEBRIS, TRASH, AND LEAVES SHOULD BE REMOVED FROM IN FRONT OF THE TUBES WHEN FOUND.
7. INLET PROTECTION STRUCTURES SHOULD BE REMOVED AFTER ALL THE DISTURBED AREAS ARE PERMANENT STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE. STABILIZE ALL BARE AREAS IMMEDIATELY.

1/36 TEMPORARY FILTER SOCK INLET PROTECTION DETAIL

NOT TO SCALE

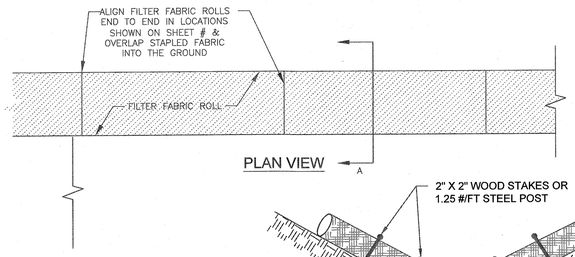
TEMPORARY SEEDING - UPPER STATE													
COMMON NAME	PLANTING RATE (LBS/AC)	PLANTING DATES											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Rye Grain (Alone)	56		X	X	X					X	X	X	X
Rye Grain (Mix)	10		X	X	X					X	X	X	X
Rye Grass (Alone)	50									X	X	X	
Rye Grass (Mix)	8									X	X	X	

PERMANENT SEEDING - UPPER STATE													
COMMON NAME	PLANTING RATE (LBS/AC)	PLANTING DATES											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Bahia Grass (Alone)	40				X	X	X	X					
Bahia Grass (Mix)	30				X	X	X	X					
Bermuda Grass (Hulled) (Alone)	4-6					X	X	X	X				
Bermuda Grass (Hulled) (Mix)	8-12					X	X	X	X				
Fescue, Tall (KY31) Alone	40									X	X	X	
Fescue, Tall (KY31) Mix	20									X	X	X	
Ladino Clover (mix only) Innoculate with AB Innoculant	2									X	X	X	

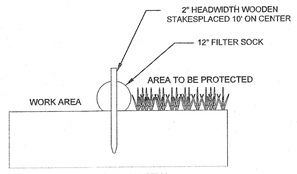
1. AREAS TO BE GRASSED SHALL BE DEFINED AS ALL AREAS OF SITE WITHIN THE GRADING LIMITS AND NOT OCCUPIED BY PAVING, CRUSHED STONE SURFACING OR STRUCTURES. GRASSING SHALL INCLUDE FINAL SHAPING, LIMING, FERTILIZING AND SEEDING OR SODDING.
2. LIME SHALL BE AGRICULTURAL GRADE, GROUND LIMESTONE. GROUND LIMESTONE SHALL CONTAIN NOT LESS THAN 85% OF CALCIUM CARBONATE CONTENT EQUIVALENT AND SHALL BE SUCH A FINENESS THAT 90% WILL PASS THROUGH A NO. 20 SIEVE AND NOT LESS THAN 50% THROUGH A NO. 100 SIEVE.
3. FERTILIZER SHALL BE GRADE 10-10-10 COMPLETE FERTILIZER OF UNIFORM COMPOSITION, FREE-FLOWING AND SUITABLE FOR APPLICATION WITH EQUIPMENT, DELIVERED TO SITE IN BAGS LABELED WITH MANUFACTURER'S GUARANTEED ANALYSIS, AND SHALL CONFORM TO ALL STATE AND FEDERAL REGULATIONS.
4. SEEDS SHALL BE MIXTURE AS APPROVED BY THE ENGINEER AND SHALL MEET REQUIREMENTS OF SEED LAWS OF THE STATE AND THE U.S. DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS UNDER FEDERAL SEED ACT IN EFFECT ON DATE BIDS ARE RECEIVED. SEED SHALL BE DELIVERED IN STANDARD CONTAINERS. SEED WHICH HAS BECOME WET, MOLDY OR DAMAGED IN TRANSIT OR STORAGE WILL NOT BE ACCEPTABLE.
5. MULCH SHALL CONSIST OF SMALL GRAIN STRAW OF GOOD QUALITY, CLEAN, FREE OF NOXIOUS WEEDS, AND REASONABLY FREE OF OTHER WEEDS. SPREAD MULCH AT A RATE OF 1 TON PER ACRE ON SLOPES UP TO 8.0 % AND AT A RATE OF 1-1/2 TONS PER ACRE FROM 8.0% UP TO A SLOPE OF 3 TO 1.
6. SPREAD LIME AT A RATE OF 1,000 LBS. PER ACRE.
7. FERTILIZER SHALL BE DISTRIBUTED UNIFORMLY AT A RATE OF 1,000 LBS. PER ACRE AND SHALL BE INCORPORATED INTO SOIL TO A DEPTH OF AT LEAST 2" BY DISKING AND HARROWING.
8. SPREAD SEED AT A RATE AS NOTED ON THE DRAWINGS.
9. IMMEDIATELY AFTER FERTILIZING AND SEEDING HAVE BEEN COMPLETED, ENTIRE AREA SHALL BE COMPACTED BY MEANS OF A CULTIPACKER, ROLLER, OR APPROVED EQUIPMENT WEIGHING APPROXIMATELY 90 LBS. PER LINEAR FOOT OF ROLLER. USE OF SPECIFIED MULCH, APPLIED AT A RATE OF 1 - 2 TONS/ACRE (USE THE HIGHER RATE FOR 3 TO 1 SLOPES OR GREATER), WITH ASPHALT EMULSION TYPE SS-1, MS-2, RS-1, OR RS-2, SHALL BE USED TO PROTECT SITE AGAINST EROSION.
10. AREAS THAT REQUIRE RE-FERTILIZATION AND\OR RE-SEEDING WILL BE DESIGNATED BY THE ENGINEER. WHEN ANY PORTION OF SURFACE BECOMES GULLED OR OTHERWISE DAMAGED FOLLOWING SEEDING, OR SEEDLINGS HAVE BEEN WINTER-KILLED OR OTHERWISE DESTROYED, AFFECTED PORTION SHALL BE REPAIRED TO RE-ESTABLISH CONDITION AND GRADE OF SOIL PRIOR TO SEEDLING AND SHALL BE RE-SEEDED AS SPECIFIED ABOVE.
11. ALL DISTURBED AREAS ARE TO BE GRASSED IMMEDIATELY AFTER CONSTRUCTION IN THE AREA. AT NO TIME WILL AN AREA BE LEFT BARE FOR MORE THAN 14 DAYS AFTER COMPLETION OF CONSTRUCTION.
12. PERMANENT GRASS SHALL BE PROVIDED FOR ALL DISTURBED AREAS. SEED SHALL BE A MINIMUM 90% PURITY AND 80% GERMINATION. AREAS TO HAVE GRASS APPLIED SHALL BE SCARIFIED CULTIVATED TO A DEPTH OF 3 INCHES, WITH ALL CLODS OR CLUMPS BROKEN UP AND FOREIGN MATERIAL AND DEBRIS REMOVED. FERTILIZER AND LIME SHALL BE THOROUGHLY WORKED INTO THE SOIL, AND THE SURFACE RAKED SMOOTH BEFORE APPLYING SEED. SEED SHALL BE APPLIED EVENLY AT THE MINIMUM RATE AND RAKED IN LIGHTLY. MULCH SHALL BE APPLIED AT THE RATE AS SPECIFIED ABOVE.
13. CONTRACTOR SHALL WATER AS NEEDED UNTIL GRASS IS ESTABLISHED.
14. ALL DISTURBED AREAS SHALL BE HYDROSEEDED UNLESS SHOWN ON PLANS TO RECEIVE COMPOST BLANKET.
15. NO BURNING IS ALLOWED ON THE PROJECT SITE.

2/36 SEEDING SCHEDULE

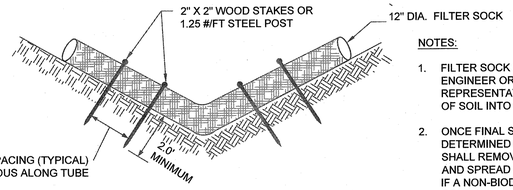
NOT TO SCALE



PLAN VIEW



SECTION VIEW



NOTES:

1. FILTER SOCK SHALL BE PLACED AS DIRECTED BY THE ENGINEER OR THE RESIDENT PROJECT REPRESENTATIVE (RPR) TO PREVENT THE DISCHARGE OF SOIL INTO WETLANDS AND/OR STREAMS.
2. ONCE FINAL STABILIZATION IS ACHIEVED, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE STAKES, CUT MESH FOR FILTER SOCK AND SPREAD MULCH ON THE SURROUNDING GROUND. IF A NON-BIODEGRADABLE MESH IS USED, THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF THE MESH.
3. INSTALLATION, MAINTENANCE AND REMOVAL OF TEMPORARY FILTER SOCK SHALL BE PAID UNDER ITEM C-102-2.

FILTER SOCK DETAIL NOTES:

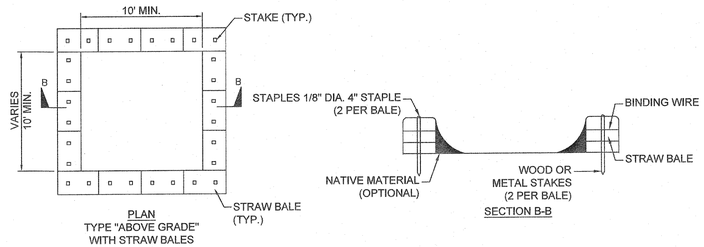
A. RANGE OF PH IS 5.0-8.0 IN ACCORDANCE WITH TMECC 04.11-A, " ELECTROMETRIC PH DETERMINATIONS FOR COMPOST "
B. PARTICLE SIZE - 99% PASSING A 2 IN (50MM) SIEVE WITH A RANGE OF 30%-50% PASSING A 3/8 IN (9.5MM) SIEVE, IN ACCORDANCE WITH TMECC 02.02-B, " SAMPLE SIEVING FOR AGGREGATE SIZE CLASSIFICATION " . (NOTE- IN THE FIELD, PRODUCT COMMONLY IS BETWEEN ½ IN [12.5MM] AND 2 IN [50MM] PARTICLE SIZE.)
C. MESH OPENING SIZE SHALL BE BETWEEN 1/8" AND 3/8".
D. MOISTURE CONTENT OF LESS THAN 60% IN ACCORDANCE WITH STANDARDIZED TEST METHODS FOR MOISTURE DETERMINATION.
E. MATERIAL SHALL BE RELATIVELY FREE (<1% BY DRY WEIGHT) OF INERT OR FOREIGN MAN MADE MATERIALS.
F. A SAMPLE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO BEING USED AND MUST COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
G. EXAMPLES OF MEDIA THAT MAY BE USED INCLUDE UNTREATED AND NON-PAINTED WOOD PALLETS, AND CLEAN LAND CLEARING DEBRIS OR TREE CHIPS PROVIDED THEY MEET THE CRITERIA SHOWN ABOVE.
H. FILTER SOCK SHALL BE FILTREXX FILTER SOCK, OR APPROVED EQUAL.

FILTER SOCK MAINTENANCE NOTES:

A. THE CONTRACTOR SHALL REMOVE SEDIMENT AT THE BASE OF THE UPSLOPE SIDE OF THE PERIMETER WHEN ACCUMULATION HAS REACHED 1//2 HEIGHT OF THE SOCK, OR AS DIRECTED BY THE ENGINEER.
B. THE FILTER MEDIA WILL BE DISPERSED ON SITE ONCE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED, CONSTRUCTION ACTIVITY HAS CEASED, OR AS DETERMINED BY THE ENGINEER.

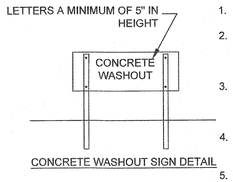
3/36 FILTER SOCK DETAIL

NOT TO SCALE



PLAN
TYPE "ABOVE GRADE" WITH STRAW BALES

SECTION B-B



CONCRETE WASHOUT SIGN DETAIL

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. FILTER SOCK SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. AN IMPERMEABLE LINER SHALL BE USED WITHIN THE WASHOUT TO PROTECT THE AREA UNDERNEATH IT.
8. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.
9. CONCRETE WASHOUT AREA SHALL BE INCIDENTAL TO MOBILIZATION.

4/36 STRAW BALE BARRIER CONCRETE WASHOUT

NOT TO SCALE

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BITANCOURT
4-12-21
PROFESSIONAL SEAL

NO.	DESCRIPTION	DATE	BY

REVISION RECORD

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT
SPARTANBURG, SC

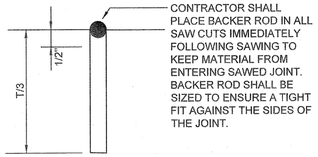
DRAWING TITLE: EROSION CONTROL DETAILS

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

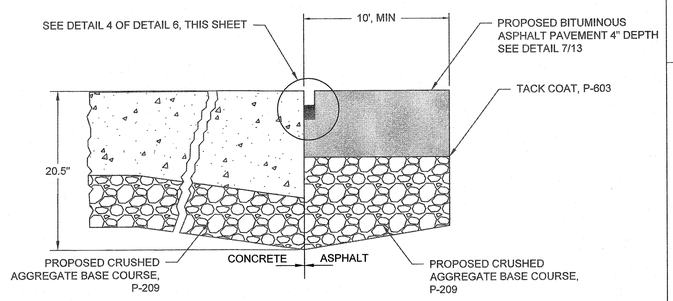
DRAWING NUMBER:
36 OF 40
WKD PROJ. NO.:
20200317.00.CA

PLOTTED By: Christopher Bitancourt 4/8/2021 11:23:11 AM
FILE NAME: P:\projects\projects\projects\2020\20200317.00_SPA Model 3 Series 1 Rehabilitation\CAD\Tax Bellmar Rehab - PROJECT DETAILS.dwg

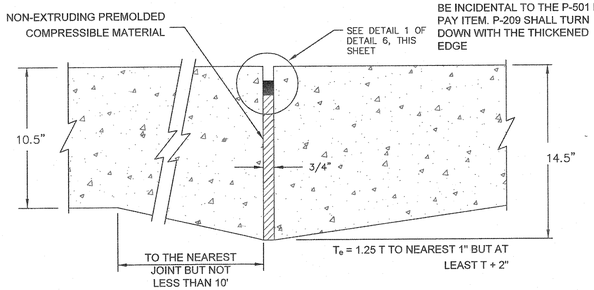
COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR ALTERATIONS TO THIS DOCUMENT, OR ANY PART THEREOF, BY ANY METHOD, ELECTRONIC OR OTHERWISE, WITHOUT THE PRIOR WRITTEN CONSENT OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. ANY UNAUTHORIZED REUSE, EDITING, OR TAKING OF INFORMATION CONTAINED HEREIN OR FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VOID. THIS IS COPIED.



1/37 INITIAL SAW CUT DETAIL
NOT TO SCALE



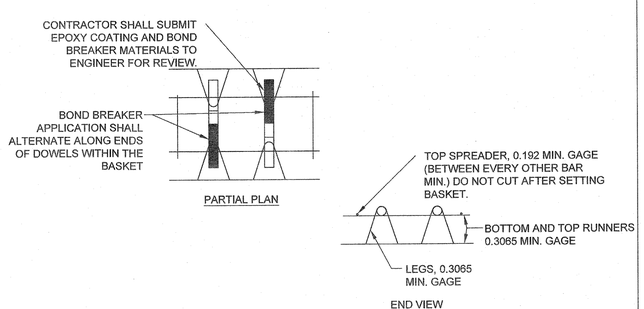
2/37 CONCRETE/ASPHALT BUTT JOINT (TYPE J)
NOT TO SCALE



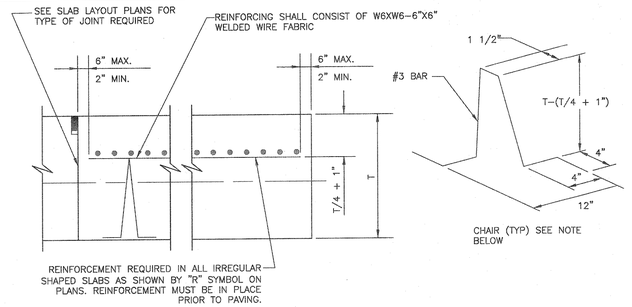
7/37 ISOLATION JOINT (THICKENED EDGE TYPE A)
NOT TO SCALE

DOWEL BAR ASSEMBLY NOTES:

1. WIRE USED IN BASKETS SHALL CONFORM TO ASTM A82 COLD DRAWN WIRE.
2. DOWEL BAR ATTACHMENT TO WIRE BASKET MAY BE ARC OR RESISTANCE WELDED.
3. WIRE FRAME MEMBERS SHALL BE RESISTANCE WELDED EXCEPT FOR SPREADER WIRES WHICH MAY BE ARC WELDED.
4. DOWEL BARS SHALL BE EPOXY COATED PRIOR TO DELIVERY TO SITE. APPLY BOND BREAKER TO HALF OF DOWEL BARS WITHIN BASKETS.
5. ALL ITEMS WITHIN THIS DETAIL SHALL BE INCIDENTAL TO P-501, PORTLAND CEMENT CONCRETE PAVEMENT.
6. BOND BREAKER SHALL BE FIELD APPLIED.
7. DO NOT CUT DOWEL BASKET SHIPPING WIRES.
8. ALL ITEMS WITHIN THIS DETAIL SHALL BE INCIDENTAL TO THE P-501 PAY ITEM.



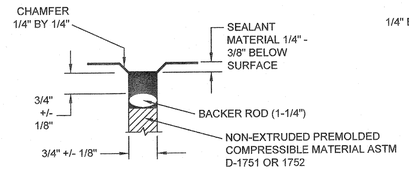
8/37 DOWEL BAR ASSEMBLY (BASKETS)
NOT TO SCALE



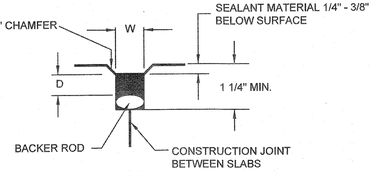
NOTES:

1. CHAIR SHALL BE ANCHORED TO BASE AND SPACED TO PREVENT SAGGING DURING CONCRETE PLACEMENT/WORKERS WEIGHT.
2. ALL ITEMS WITHIN THIS DETAIL SHALL BE INCIDENTAL TO P-501, PORTLAND CEMENT CONCRETE PAVEMENT.

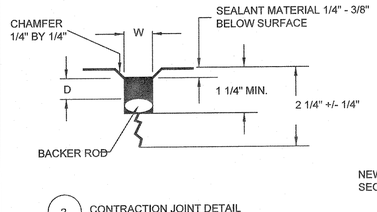
3/37 REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT SECTION
NTS



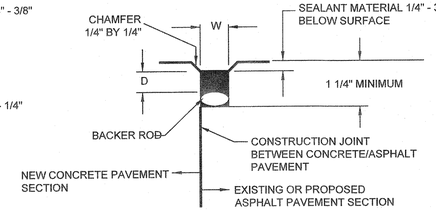
1 ISOLATION JOINT DETAIL
NOT TO SCALE



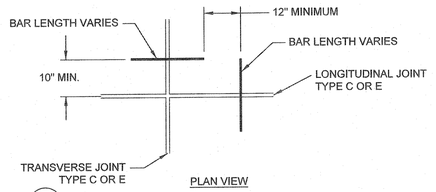
3 CONSTRUCTION JOINT DETAIL
NOT TO SCALE



2 CONTRACTION JOINT DETAIL
NOT TO SCALE



4 CONSTRUCTION JOINT DETAIL
NOT TO SCALE

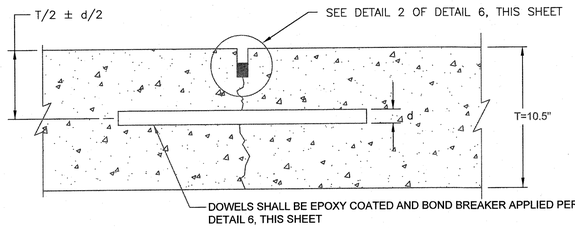


5 POSITION OF DOWELS AT EDGE OF JOINT (TYPE C AND E)
NOT TO SCALE

JOINT DETAIL NOTES:

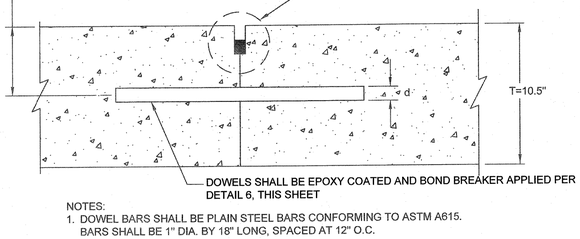
1. SEALANT RESERVOIR SIZED TO PROVIDE PROPER SHAPE FACTOR, W/D. FIELD POURED SEALANTS REQUIRE DIFFERENT SHAPE FACTORS FOR OPTIMUM PERFORMANCE, AS RECOMMENDED BY MANUFACTURER. MINIMUM DIMENSION FOR W=⅜". THE "D" DIMENSION SHALL BE DETERMINED UPON SUBMISSION OF JOINT SEALANT SHOP DRAWING.
2. BACKER ROD MATERIAL MUST BE COMPATIBLE WITH THE TYPE OF SEALANT USED AND SIZED TO PROVIDE THE DESIRED SHAPE FACTOR, AS RECOMMENDED BY MANUFACTURER.
3. JOINT SEALANT MATERIAL SHALL BE DOW CORNING TYPE 890-SL OR APPROVED EQUAL.
4. CHAMFERED EDGES ARE REQUIRED FOR DETAILS 1, 2, 3 AND 4.
5. SHADED AREA IS JOINT SEALANT.
6. GROOVE MUST BE FORMED BY SAWING.
7. DOWEL BARS SHALL BE PLAIN STEEL BARS CONFORMING TO ASTM A615. BARS SHALL BE 1-¼" DIA. BY 20" LONG, SPACED AT 15" O.C. BARS SHALL BE FACTORY EPOXY RESIN COATED. BOND BREAKER SHALL BE APPLIED IN THE FIELD PER MANUFACTURER'S RECOMMENDATION.
8. ALL ITEMS WITHIN THIS DETAIL SHALL BE INCLUDED IN ITEM P-501, PORTLAND CEMENT CONCRETE PAVEMENT PAY ITEM.

6/37 POSITION OF DOWELS AT EDGE OF JOINT (TYPE C OR E)
NOT TO SCALE



NOTES:
1. DOWEL BARS SHALL BE PLAIN STEEL BARS CONFORMING TO ASTM A615. BARS SHALL BE 1" DIA. BY 18" LONG, SPACED AT 12" O.C.
2. WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT, SAW CUT EXISTING PAVEMENT FULL DEPTH TO A NEAT, VERTICAL EDGE PRIOR TO PAVING.

9/37 DOWELED CONTRACTION JOINT (TYPE C)
NOT TO SCALE



NOTES:
1. DOWEL BARS SHALL BE PLAIN STEEL BARS CONFORMING TO ASTM A615. BARS SHALL BE 1" DIA. BY 18" LONG, SPACED AT 12" O.C.

4/37 DOWELED CONSTRUCTION JOINT (TYPE E)
NOT TO SCALE

10/37 NOT USED
NOT TO SCALE

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BIRKMEYER
4-20-21
PROFESSIONAL SEAL

NO.	DATE	DESCRIPTION	BY

REVISION RECORD

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

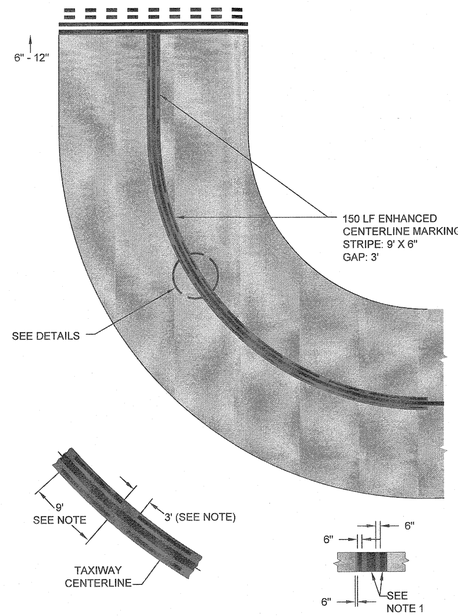
DRAWING TITLE: JOINT DETAILS

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
37 OF 40
WKD PROJ. NO.:
20200317.00.CA

FILE PATH: Z:\Projects\Airports\Spartanburg\20200317.00CA - SPX Taxi A Rehab\Admin\CAD\Plan Set\Sheet Files\ - PROJECT DETAILS.dwg, LAYOUT: Taxiway A Rehabilitation-CAD\Plan Set\Sheet Files\01 - PROJECT DETAILS.dwg, 4/29/2021 11:29:14 AM

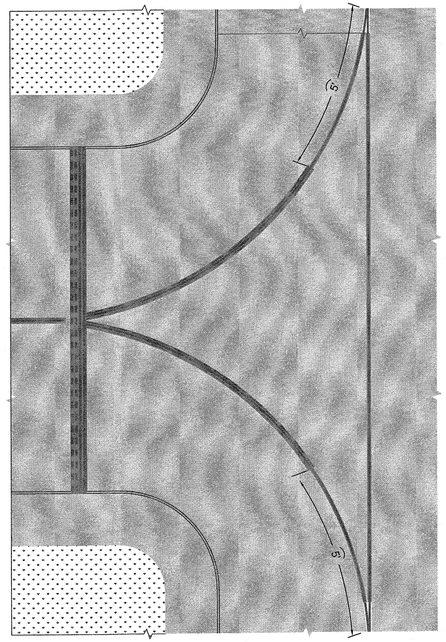
COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR REVISIONS TO THE CONTENTS OF THIS DOCUMENT, OR ANY PART THEREOF, WITHOUT THE EXPRESS WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ANY COPY OF THIS DOCUMENT, OR ANY PART THEREOF, MUST BE CLEARLY LABELED AS SUCH AND SHALL INCLUDE THIS COPYRIGHT NOTICE. ANY COPY OF THIS DOCUMENT, OR ANY PART THEREOF, NOT BEARING AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VOID. "FILE COPIES" FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VOID. "FILE COPIES".



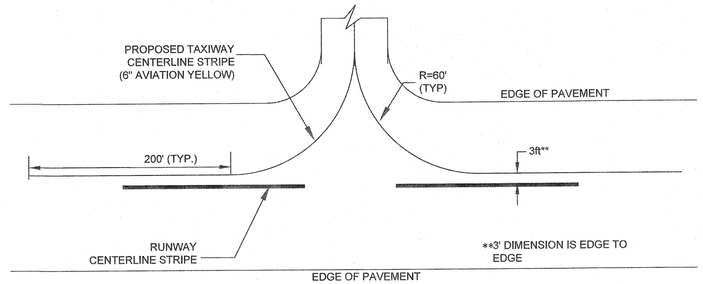
TYPICAL ENHANCED TAXIWAY MARKING SPACING

NOTES:
1. DASHED LINES DIMENSIONS ARE TAKEN ALONG THE CENTER OF THE TAXIWAY CENTERLINE.
2. DASHED LINES FOR THE ENHANCED TAXIWAY CENTERLINE MARKING ARE 6 INCHES IN WIDTH AND SEPARATED 6 INCHES FROM THE TAXIWAY CENTERLINE.

1/38 ENHANCED TAXIWAY CENTERLINE MARKING DETAIL
NOT TO SCALE

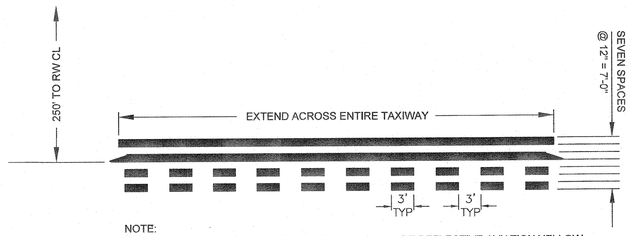


2/38 TWO TAXIWAY CENTERLINES CONVERGING AT A RUNWAY HOLDING POSITION MARKING DETAIL
NOT TO SCALE



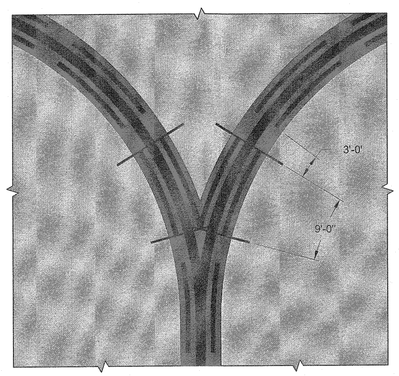
NOTE: ALL TAXIWAY CENTERLINE MARKINGS SHALL BE REFLECTIVE AVIATION YELLOW. ALL RUNWAY CENTERLINE MARKINGS SHALL BE REFLECTIVE AVIATION WHITE.

3/38 TAXIWAY/RUNWAY INTERSECTION MARKING DETAIL
NOT TO SCALE



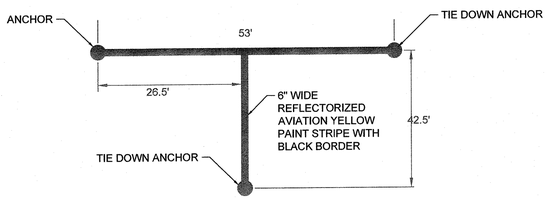
NOTE:
1. ALL TAXIWAY HOLDING LINE MARKINGS SHALL BE REFLECTIVE AVIATION YELLOW.
2. TAXIWAY HOLDING LINE MARKINGS SHALL BE OFFSET 250' FROM RUNWAY CENTERLINE.

4/38 RUNWAY HOLDING POSITION DETAIL
NOT TO SCALE



NOTES:
1. AS SHOWN IN THIS CASE THE V-SHAPED INNER DASHES START AND STOP WITH THE OUTSIDE 9-FOOT DASHES. - HOWEVER, THIS MAY NOT ALWAYS BE THE CASE FOR THE INNER DASHES. IF THE V-SHAPED ARE LESS THAN 5 FEET THEY MAY BE OMITTED.
2. MEASUREMENTS ARE TAKEN ALONG THE CENTER OF THE CENTERLINE STRIPE.

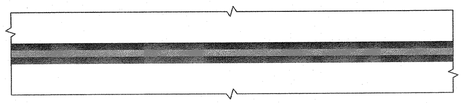
5/38 ENHANCED DASHED LINES AT CONVERGING TAXIWAY CENTERLINE MARKING DETAIL
NOT TO SCALE



MARKING NOTES:

1. ALL PAVEMENT MARKINGS SHALL CONFORM TO FAA SPECIFICATION P-620.
2. ALL PARKING AREA MARKINGS SHALL BE REFLECTIVE AVIATION YELLOW WITH GLASS BEADS.
3. ALL YELLOW PAVEMENT MARKINGS SHALL HAVE A BLACK BORDER THAT EXTENDS 3" BEYOND YELLOW MARKINGS.
4. PAVEMENT MARKINGS SHALL BE APPLIED IN TWO APPLICATIONS. THE TEMPORARY APPLICATION SHALL BE APPLIED AT A RATE OF 50%, FOLLOWED BY A PERMANENT APPLICATION AT 100% 30 DAYS LATER.

6/38 ENHANCED PARKING AREA DETAIL
NOT TO SCALE



MARKING NOTES

1. PROPOSED TAXIWAY CENTERLINE PAVEMENT MARKINGS SHALL CONFORM TO FAA SPECIFICATION P-620.
2. TAXIWAY CENTERLINE MARKINGS SHALL BE 6" WIDE REFLECTIVE AVIATION YELLOW WITH GLASS BEADS.
3. TAXIWAY CENTERLINE PAVEMENT MARKINGS ON NEW AND EXISTING PORTLAND CEMENT CONCRETE SHALL HAVE A BLACK BORDER THAT EXTENDS 6" EITHER SIDE BEYOND YELLOW MARKING. GLASS BEADS SHALL NOT BE USED IN BLACK PAINT. BLACK BORDERS FOR TAXIWAY CENTERLINE MARKINGS ARE NOT REQUIRED ON NEW ASPHALT CONCRETE. REFER TO FAA AC 150/5340-1M CHAPTER 1, SECTION 1.4, TABLE 1-1 FOR FURTHER INFORMATION.
4. PAVEMENT MARKINGS SHALL BE APPLIED IN TWO APPLICATIONS. THE TEMPORARY APPLICATION SHALL BE APPLIED AT A RATE OF 50%, FOLLOWED BY A PERMANENT APPLICATION AT 100% 30 DAYS LATER.

7/38 TAXIWAY CENTERLINE DETAIL
NOT TO SCALE

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BYRNSTER
4.20.2021
PROFESSIONAL SEAL

NO.	DATE	DESCRIPTION	BY

REVISION RECORD

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

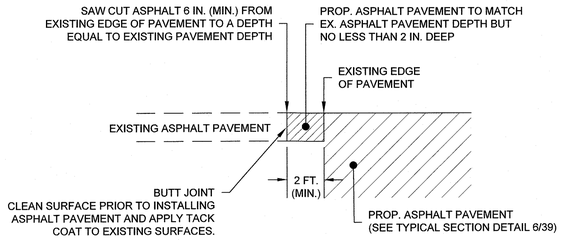
DRAWING TITLE: PAVEMENT MARKING DETAILS

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER:
38 OF 40
WKD PROJ. NO.:
20200317.00.CA

R:\1 PROJECTS\Airports\2020\20200317.00CA - SPA Multi\1 Survey & Mobilization\CAD\Pre Bid\Sheet Files\ - PROJECT DETAILS.dwg, Christopher Byrnster, 4/20/2021 11:03:21 AM

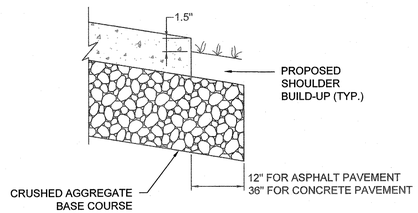
COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR MODIFICATIONS TO THE CONTENTS OF THIS DOCUMENT, OR USE OF ANY PART OF THIS DOCUMENT FOR ANY PURPOSE WITHOUT PRIOR WRITTEN PERMISSION FROM THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VALID, TRUE COPIES.



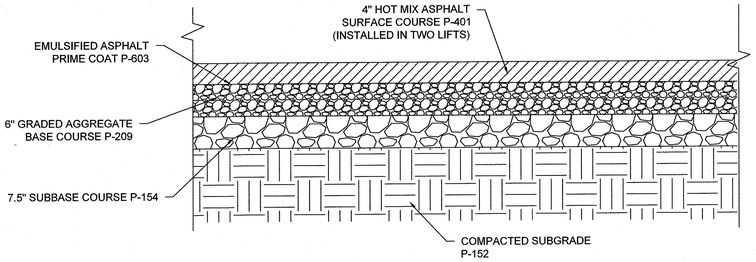
SECTION VIEW

NOTES:
1. SAW CUT AND REMOVE EXISTING PAVEMENT AT LOCATIONS SHOWN ON PLANS.

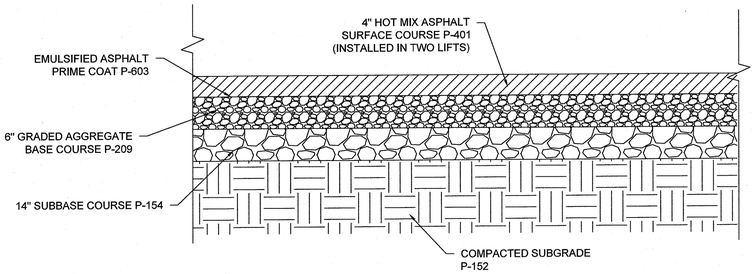
1 / 39 PAVEMENT SAWCUT & REMOVAL DETAIL
NOT TO SCALE



7 / 39 EDGE OF PAVEMENT DETAIL
NOT TO SCALE

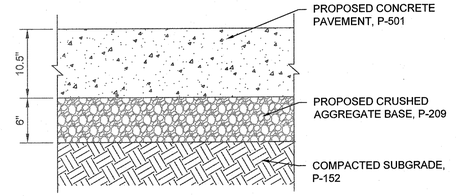


NOTES:
1. ASPHALT THICKNESS NOTED SHALL BE THE FINAL COMPACTED MATERIAL THICKNESS.
2. FOLLOW THE GEOTECHNICAL RECOMMENDATIONS FOR SUBGRADE PREPARATIONS.
3. IF THE ASPHALT SURFACE IS INSTALLED IN ON SEPARATE DAYS USE EMULSIFIED TACK COAT ON THE FIRST LIFT PRIOR T INSTALLING THE FINAL SURFACE LIFT.
4. ABOVE PAVEMENT SECTION TO BE UTILIZED FOR STA 10+00 THROUGH STA 31+00 AND FOR STA 42+50 THROUGH STA 59+00.



NOTES:
1. ASPHALT THICKNESS NOTED SHALL BE THE FINAL COMPACTED MATERIAL THICKNESS.
2. FOLLOW THE GEOTECHNICAL RECOMMENDATIONS FOR SUBGRADE PREPARATIONS.
3. IF THE ASPHALT SURFACE IS INSTALLED IN ON SEPARATE DAYS USE EMULSIFIED TACK COAT ON THE FIRST LIFT PRIOR T INSTALLING THE FINAL SURFACE LIFT.
4. ABOVE PAVEMENT SECTION TO BE UTILIZED FOR STA 31+00 THROUGH STA 42+50.

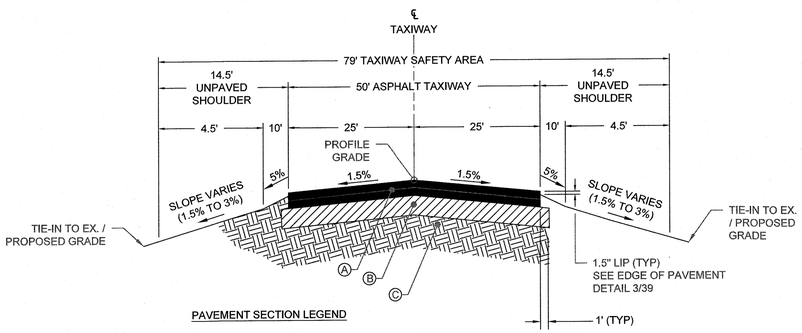
2 / 39 HMA PAVEMENT DETAIL
NOT TO SCALE



3 / 39 PCC PAVEMENT DETAIL
NOT TO SCALE

NOTES:
1. PAYMENT FOR NEW TIE DOWN ANCHOR SHALL BE UNDER THE LINE ITEM "TIE DOWN COMPLETE" AND SHALL INCLUDE ALL ITEMS TO CONSTRUCT THE TIE DOWN IN ACCORDANCE WITH THIS DETAIL.

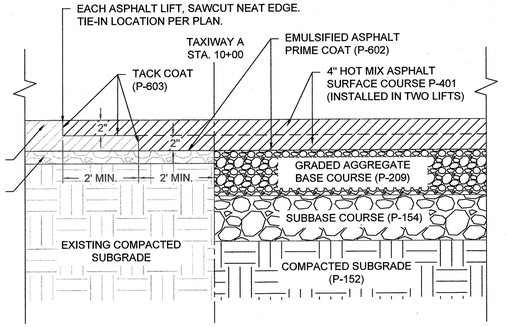
5 / 39 TYPICAL NEW TIE DOWN ANCHOR
NOT TO SCALE

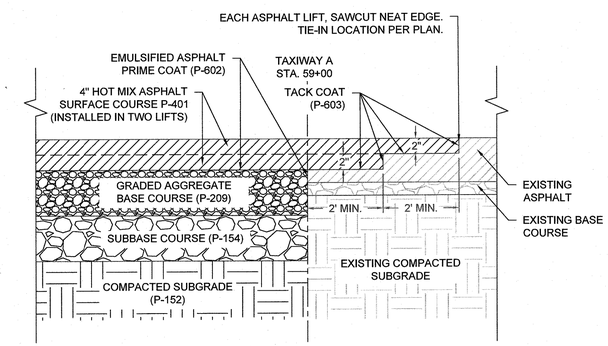


PAVEMENT SECTION LEGEND
- Ⓐ FAA P-401 BITUMINOUS SURFACE COURSE, (INSTALL IN TWO (2) LIFTS)
- Ⓑ FAA P-209 GRADED AGGREGATE BASE COURSE
- Ⓓ EXISTING SUBGRADE

NOTES
1) CONTRACTOR TO REMOVE EXISTING PAVEMENT AND AGGREGATE BASE MATERIAL. COMPACT EXISTING SUBGRADE TO 100% STANDARD COMPACTION, AND BACKFILL WITH 12" OF COMPACTED SUITABLE SOILS. SUITABLE SOIL BACKFILL SHALL BE PAID FOR IN FAA P-152 "UNSUITABLE EXCAVATION AND REPLACE, COMPACT WITH SUITABLE SOILS" PAY ITEM.
2) APPLY TACK COAT (ITEM PAID FOR UNDER P-603-1) BETWEEN ASPHALT LIFTS.
3) REFER TO THE PLAN AND PROFILE SHEETS ON PAGES 11 THROUGH 18 FOR FURTHER INFORMATION.
4) CONTRACTOR SHALL COMPLETE ADDITIONAL GEOTECHNICAL INVESTIGATION TO DETERMINE AREAS WHERE SUBGRADE UNDERCUT AND REPAIR MAY BE REQUIRED.

6 / 39 TAXIWAY - FULL DEPTH ASPHALT TYPICAL SECTION
NOT TO SCALE





7 / 39 TAXIWAY A - STEPPED JOINT CONNECTION
NOT TO SCALE

NOTES
1) PROPOSED STEPPED JOINT SHALL BE 2' MIN. EACH LIFT; VARIES PER PLAN.

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER — No.31405 — CHRISTOPHER J. BIRKMEYER — 12.22.20
PROFESSIONAL SEAL

NO.	DESCRIPTION	DATE	BY

REVISION RECORD

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT
SPARTANBURG, SC

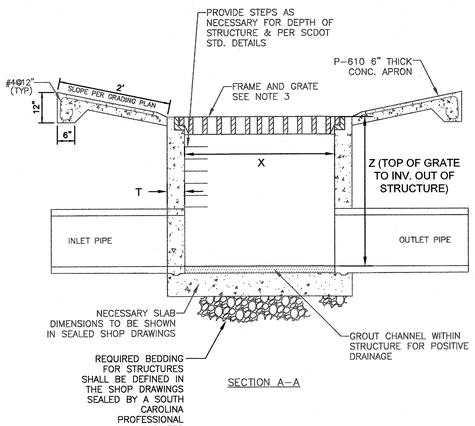
DRAWING TITLE: PAVEMENT DETAILS

PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

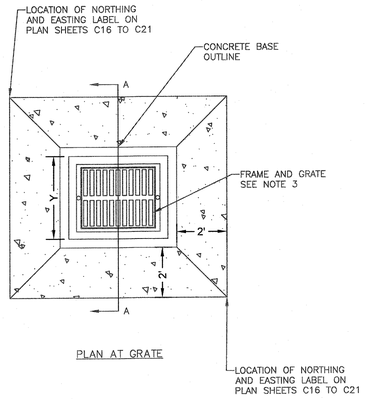
DRAWING NUMBER:
39 OF 40
WKD PROJ. NO.:
20200317.00.CA

PLOTTED:2:\Projects\Spartanburg\20200317.00\CA - SPA WAY 3 Taxiway A Rehabilitation\CAD\Plan Set\Sheet Files\ - PROJECT DETAILS.dwg, by:Kyle.Mcfarland@wkdickson.com, 12/9/2020 11:09:58 AM

COPYRIGHT © W.K. DICKSON & CO., INC., ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, ADDENDA OR REVISIONS THERETO IN ANY FORM OR BY ANY MEANS WITHOUT THE EXPRESS WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ANY COPY FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. PRINT COPIES.



SECTION A–A



PLAN AT GRATE

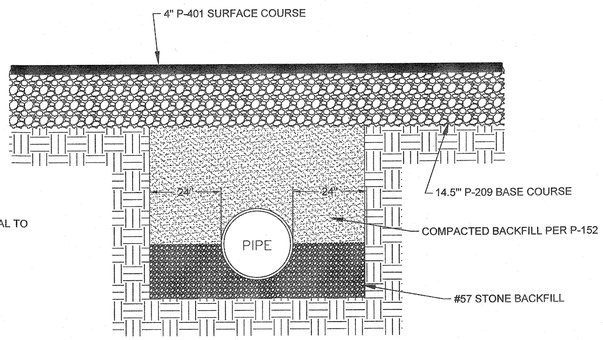
STRUCTURE ID	ACTION	TOP OF GRATE	INV. IN	INV. IN DIAM. (IN.)	INV. OUT	INV. OUT DIAM. (IN.)	DIM. X	DIM. Y	DIM. Z
DI-1	INSTALL NEW	798.46	N/A	N/A	795.31	18	*	*	3.15
DI-2	INSTALL NEW	798.50	794.34	18	794.23	18	*	*	4.27
JB-1	INSTALL NEW	799.13	793.75	793.85	793.85	30	*	*	5.28
DI-3	INSTALL NEW	794.01	N/A	N/A	790.00	30	*	*	4.01
JB-2	INSTALL NEW	797.05	789.00	N/A	789.00**	30	*	*	8.05

*NOTE - DIMENSIONS TO BE SET BY SEALED SHOP DRAWINGS
** NOT SURVEYED, INV. APPROXIMATE

NOTES FOR PRE-CAST STRUCTURE:

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE STRUCTURES INDICATED IN THIS DETAIL AS "PROVIDED BY THE CONTRACTOR". THE SHOP DRAWINGS SHALL BE SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA.
2. THE STRUCTURES AND GRATES MUST BE CAPABLE OF SUPPORTING AIRCRAFT LOADING AS DETERMINED IN APPENDIX B OF AC150/5320-6F, ASSUMING A GULFSTREAM 550 FOR LOADING. A STATEMENT ON THE SEALED SUBMITTAL MUST INDICATE THAT APPENDIX B CRITERIA HAS BEEN ADHERED TO.
3. THE INLETS SHALL BE DESIGNED TO ACCOMMODATE A NEENAH INLET FRAME AND GRATE OF TYPE R-3475, OR APPROVED EQUAL PRODUCT IN QUALITY AND DESIGN.
4. BACKFILL AROUND STRUCTURE SHALL BE PER P-152 SPECIFICATION.
5. OPENINGS IN THE WALLS FOR PIPE CONNECTIONS (TYPE AS CALLED OUT ON PLAN SHEETS) SHALL BE CAST-IN OR CUT CLEANLY TO A MAXIMUM DIAMETER OF OUTER DIAMETER OF THE PIPE PLUS 3". VOIDS AT PIPE CONNECTIONS SHALL BE MADE WATERTIGHT WITH THE USE OF A FAST SETTING HYDRAULIC CEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AFTER A 24 HOUR CURE TIME. SHOP DRAWINGS MUST SHOW ALL PIPE CONNECTIONS IF THOSE OPENINGS ARE PROPOSED TO BE PRE-CAST.
6. THE CONCRETE APRON SHALL BE CAST-IN-PLACE PER THIS DETAIL AND CONSIST OF P-610 CONCRETE. APRON SHALL BE INCIDENTAL TO THE STRUCTURE PAY ITEM.
7. CONTRACTOR SHALL CONFIRM PIPE DIAMETERS OF EXISTING PIPE BEFORE SHOP DRAWING SUBMISSION.
8. DROP INLET STRUCTURE SHALL CONFORM TO FAA D-751 SPECIFICATION.
9. STEEL REINFORCING CONFORMS TO REQUIREMENTS OF ASTM C890 SPECIFICATIONS FOR STRUCTURAL DESIGN LOADING FOR WATER AND WASTEWATER STRUCTURES AND UTILIZES GRADE 60 REBAR CONFORMING TO REQUIREMENTS OF ASTM A615 OR WWF CONFORMING TO REQUIREMENTS OF ASTM A185 OR BOTH.
10. PIPE PENETRATION TO BE AS PER JOB REQUIREMENTS. PIPE TO BE INSTALLED BY CONTRACTOR AS PER SCDOT REQUIREMENTS FOR MORTAR JOIN CONNECTIONS.
11. JOINTS TO BE SEALED WITH BUTYL RUBBER JOINT SEALANT CONFORMING TO REQUIREMENTS OF ASTM C990, OR MORTAR AS PER SCDOT REQUIREMENTS, OR BOTH.
12. PROVIDE STRUCTURES OVER 3'6" IN DEPTH WITH STEPS/LADDER INSTALLED IN ACCORDANCE WITH OSHA STANDARD 1910.27 AND AS FIELD CONDITIONS DICTATE. STEPS SHALL MEET NCDOT STANDARD 840.66 - 12" O.C. VERT. MAX.

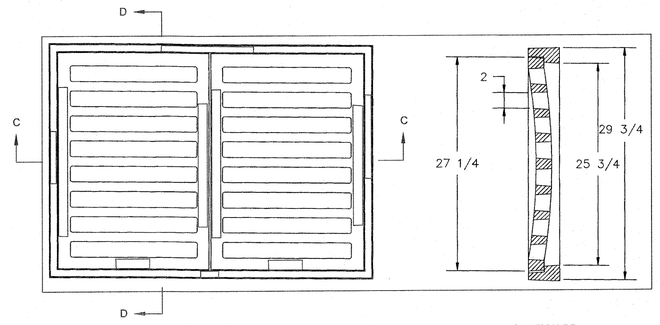
1/40 PRE-CAST STORM INLET (AIRCRAFT RATED)
NTS



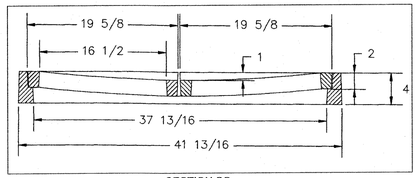
GENERAL NOTES:

1. ALL ITEMS IN THIS DETAIL ARE INCIDENTAL TO THE P-701 PAY ITEM FOR THE PIPE.

3/40 PIPE UNDER PAVEMENT DETAIL
NOT TO SCALE



PLAN VIEW SECTION DD

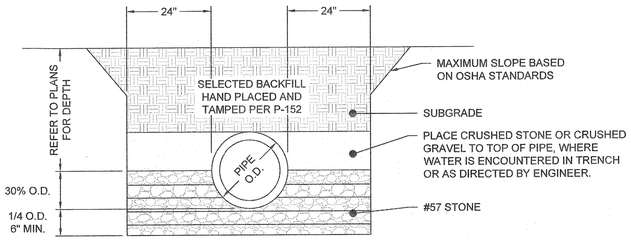


SECTION CC

GENERAL NOTES:

1. GRATE AND FRAME MATERIAL TO CONFORM TO LATEST ASTM-A48, CLASS 35B SPECIFICATIONS.
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.
3. GRATES MUST BE TRAFFIC-RATED AND CAPABLE OF SUPPORTING 90,000 LBS AIRCRAFT AND H-20 LOADINGS.

2/40 GRATE & FRAME DETAILS
NOT TO SCALE



CLASS B

NOTES:

1. A MINIMUM OF 24" FROM OUTSIDE DIAMETER OF PIPE TO SIDE OF TRENCH MUST BE ALLOWED FOR COMPACTION OF FILL MATERIAL. BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER THE PIPE IS INSTALLED. THE FILL AROUND THE PIPE SHALL BE PLACED IN LAYERS NOT TO EXCEED 6". UNDER NO CIRCUMSTANCES SHALL WATER BE PERMITTED TO RISE IN UNBACKFILLED TRENCHES AFTER THE PIPE HAS BEEN PLACED. COMPACTION REQUIREMENTS SHALL BE ATTAINED BY THE USE OF MECHANICAL TAMPS ONLY. EACH AND EVERY LAYER OF BACKFILL SHALL BE PLACED LOOSE AND THOROUGHLY COMPACTED INTO PLACE.
2. ALL BACKFILL MATERIAL SHALL HAVE AN IN PLACE COMPACTED DENSITY OF 95% STANDARD PROCTOR. THE FINAL 2' BELOW FINISHED GRADE SHALL BE MINIMUM 98% STANDARD PROCTOR IN ACCORDANCE WITH SPECIFICATION P-152.
3. ALL TRENCHING OPERATIONS SHALL MEET OSHA STANDARDS.
4. COSTS OF EXCAVATION, CRUSHED STONE, #57 STONE, AND BACKFILL ARE INCIDENTAL TO ASSOCIATED PIPE WORK. NO SEPARATE PAYMENT SHALL BE MADE FOR THESE ITEMS.

4/40 PIPE BEDDING DETAIL(NOT UNDER PAVEMENT)
NOT TO SCALE

WK DICKSON
community infrastructure consultants
1320 MAIN STREET, SUITE 400
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No.31405
CHRISTOPHER J. BYRNE
Feb 10, 22
PROFESSIONAL SEAL

REVISION RECORD

NO.	DESCRIPTION	BY	DATE

ISSUED FOR BID - DO NOT USE FOR CONSTRUCTION

PROJECT NAME: TAXIWAY A REHABILITATION FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT SPARTANBURG, SC

DRAWING TITLE: STORM DRAINAGE DETAILS

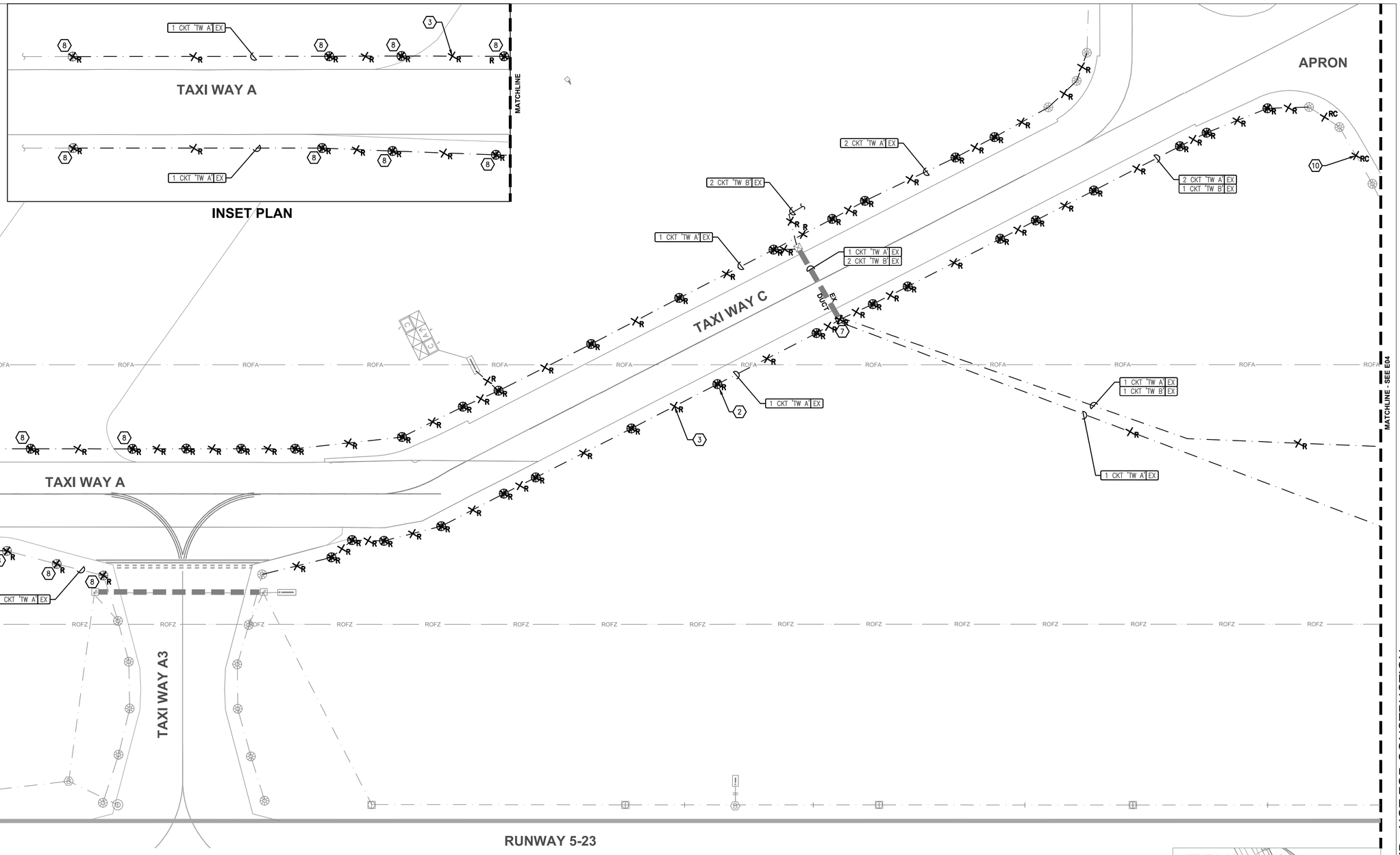
PROJ. MGR.:	KLM
DESIGN BY:	BM
DRAWN BY:	BM
PROJ. DATE:	APR 2021

DRAWING NUMBER: 40 OF 40

WKD PROJ. NO.: 20200317.00.CA

K:\Projects\Airports\Spartanburg\20200317.00_TAXIWAY A Rehab\Admin\CAD\Plan Set\Sheet Files\D_PROJECT DETAILS.dwg, 2/9/2022 11:23:01 AM

COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION/USE OF THE CONTENT OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENT OF THIS DOCUMENT BY ANY METHOD, ELECTRONIC OR OTHERWISE, WITHOUT THE PRIOR WRITTEN CONSENT OF WK DICKSON & CO., INC. IS STRICTLY PROHIBITED. ANY UNAUTHORIZED REPRODUCTION/USE OF THIS DOCUMENT, OR ANY PORTION THEREOF, MAY RESULT IN LEGAL ACTION. COPIES OF THIS DOCUMENT SHALL NOT BE CONSIDERED TO BE VALID UNLESS IT IS DIRECTLY FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL. SHALL BE CONSIDERED TO BE VALID. 'WET SEALED' COPIES



ELECTRICAL DEMOLITION PLAN

0 20' 40' 80' 120' SCALE: 1" = 40'-0"

GENERAL NOTE

1. SEE **E01** FOR GENERAL NOTES.

KEYED NOTES

(2) DISCONNECT AND REMOVE EXISTING TAXIWAY BASE MOUNTED LIGHT FIXTURE, TRANSFORMER AND LIGHT BASE. TYPICAL.

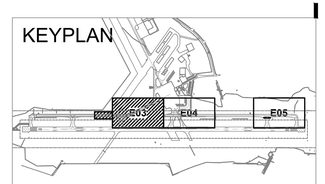
(3) DISCONNECT AND REMOVE EXISTING CONDUIT AND AIRFIELD LIGHTING CONDUCTORS (TYPICAL)

(7) EXISTING HANDHOLE/ CAN PLAZA TO BE REMOVED AND DISPOSED OF OFF SITE.

(8) CAREFULLY DISCONNECT AND REMOVE EXISTING ELEVATED TAXIWAY EDGE LIGHT FIXTURE, ISOLATION TRANSFORMER AND ASSOCIATED EQUIPMENT. LIGHT FIXTURE, TRANSFORMER AND ASSOCIATED EQUIPMENT TO BE STORED FOR REINSTALLATION AT NEW GRADE WITH NEW BASE. EXISTING BASE AND CONCRETE ENCASEMENT SHALL BE REMOVED AND DISPOSED OF OFF SITE.

(10) DISCONNECT AND REMOVE EXISTING AIRFIELD LIGHTING CONDUCTORS FROM CONDUIT. (TYPICAL)

KEYPLAN



OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
1509 LADY STREET, SUITE K, COLUMBIA, SC 29201
T : 803-883-0483 | WWW.OHMEGAGROUP.COM
SC COA NO. 4769

DRAWING STATUS - ISSUE FOR BID - NOT FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA
THE OHMEGA GROUP LLC
NO. 4769
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
4-9-21
No. 25642
MARK A. MORLEY

REVISION RECORD

NO.	DESCRIPTION	DATE	BY

PROJECT NAME:
TAXIWAY 'A' REHABILITATION DESIGN FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT (SPA) SPARTANBURG, SOUTH CAROLINA

DRAWING TITLE:
ELECTRICAL DEMOLITION PLAN

PROJ. MGR.:	SLG
DESIGN BY:	MAM
DRAWN BY:	BPR
PROJ. DATE:	4-9-2021

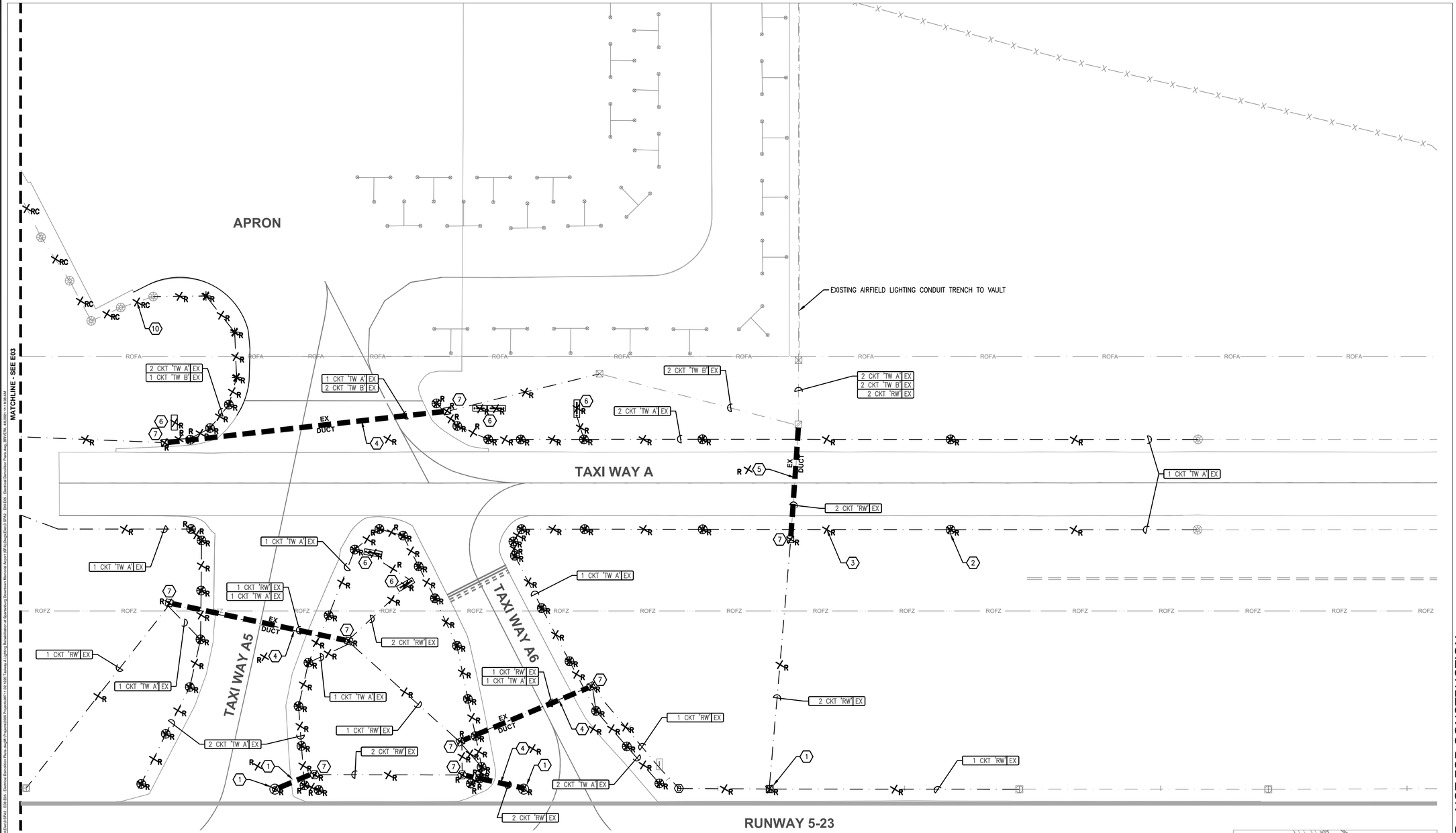
DRAWING NUMBER:
E03

TOG PROJ. NO.:
00711-02-1220

TOG PLOT DATE: 4/8/2021

FILENAME Projects\2020 Projects\00711-02-1220 Taxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA)\Dwg\Elec\E03.DWG - E03 E03 - Electrical Demolition Plans.dwg, BRYAN, 4/8/2021 11:19:08 AM

COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION/USE OF THIS CONTENT OF THIS DOCUMENT, ADDITIONS OR MODIFICATIONS TO THIS DOCUMENT, OR ANY PART THEREOF, BY ANY PERSON OR ENTITY WITHOUT THE EXPRESS WRITTEN PERMISSION OF WK DICKSON & CO., INC. IS PROHIBITED. ANY REPRODUCTION OF THIS DOCUMENT AS A PDF, OR ANY OTHER ELECTRONIC FORMAT, OTHER THAN DIRECTLY FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. TRUE COPIES



NORTH

ELECTRICAL DEMOLITION PLAN

0 20' 40' 80' 120' SCALE: 1" = 40'-0"

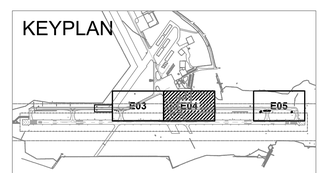
GENERAL NOTE

1. SEE **E01** FOR GENERAL NOTES.

KEYED NOTES

1. DISCONNECT AND REMOVE EXISTING RUNWAY EDGE LIGHT FIXTURE, TRANSFORMER AND LIGHT BASE.
2. DISCONNECT AND REMOVE EXISTING TAXIWAY BASE MOUNTED LIGHT FIXTURE, TRANSFORMER AND LIGHT BASE. TYPICAL.
3. DISCONNECT AND REMOVE EXISTING CONDUIT AND AIRFIELD LIGHTING CONDUCTORS (TYPICAL)
4. EXISTING CONCRETE ENCASED DUCTBANK TO BE REMOVED ALONG WITH TAXIWAY PAVEMENT REMOVAL. REMOVE EXISTING AIRFIELD LIGHTING CONDUCTOR(S)
5. EXISTING CONCRETE ENCASED DUCTBANK TO BE REMOVED. DISCONNECT DUCTBANK FROM CAN PLAZAS. REMOVE EXISTING AIRFIELD LIGHTING CONDUCTOR(S).
6. DISCONNECT AND REMOVE EXISTING GUIDANCE SIGN AND ISOLATION TRANSFORMER. TURN OVER TO THE AIRPORT. EXISTING BASE AND CONCRETE PAD SHALL BE REMOVED AND DISPOSED OF OFF SITE.
7. EXISTING HANDHOLE/ CAN PLAZA TO BE REMOVED AND DISPOSED OF OFF SITE.
10. DISCONNECT AND REMOVE EXISTING AIRFIELD LIGHTING CONDUCTORS FROM CONDUIT. (TYPICAL)

KEYPLAN



OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
1509 LADY STREET, SUITE K, COLUMBIA, SC 29201
T : 803-883-0483 | WWW.OHMEGAGROUP.COM
SC COA NO. 4769

WK DICKSON
community infrastructure consultants
1320 MAIN STREET
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA
THE OHMEGA GROUP LLC
NO. 4769
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
4-9-21
No. 25642
MARK A. MORLEY

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

DRAWING STATUS - ISSUE FOR BID - NOT FOR CONSTRUCTION

PROJECT NAME:
TAXIWAY 'A' REHABILITATION DESIGN FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT (SPA) SPARTANBURG, SOUTH CAROLINA

DRAWING TITLE:
ELECTRICAL DEMOLITION PLAN

PROJ. MGR.:	SLG
DESIGN BY:	MAM
DRAWN BY:	BPR
PROJ. DATE:	4-9-2021

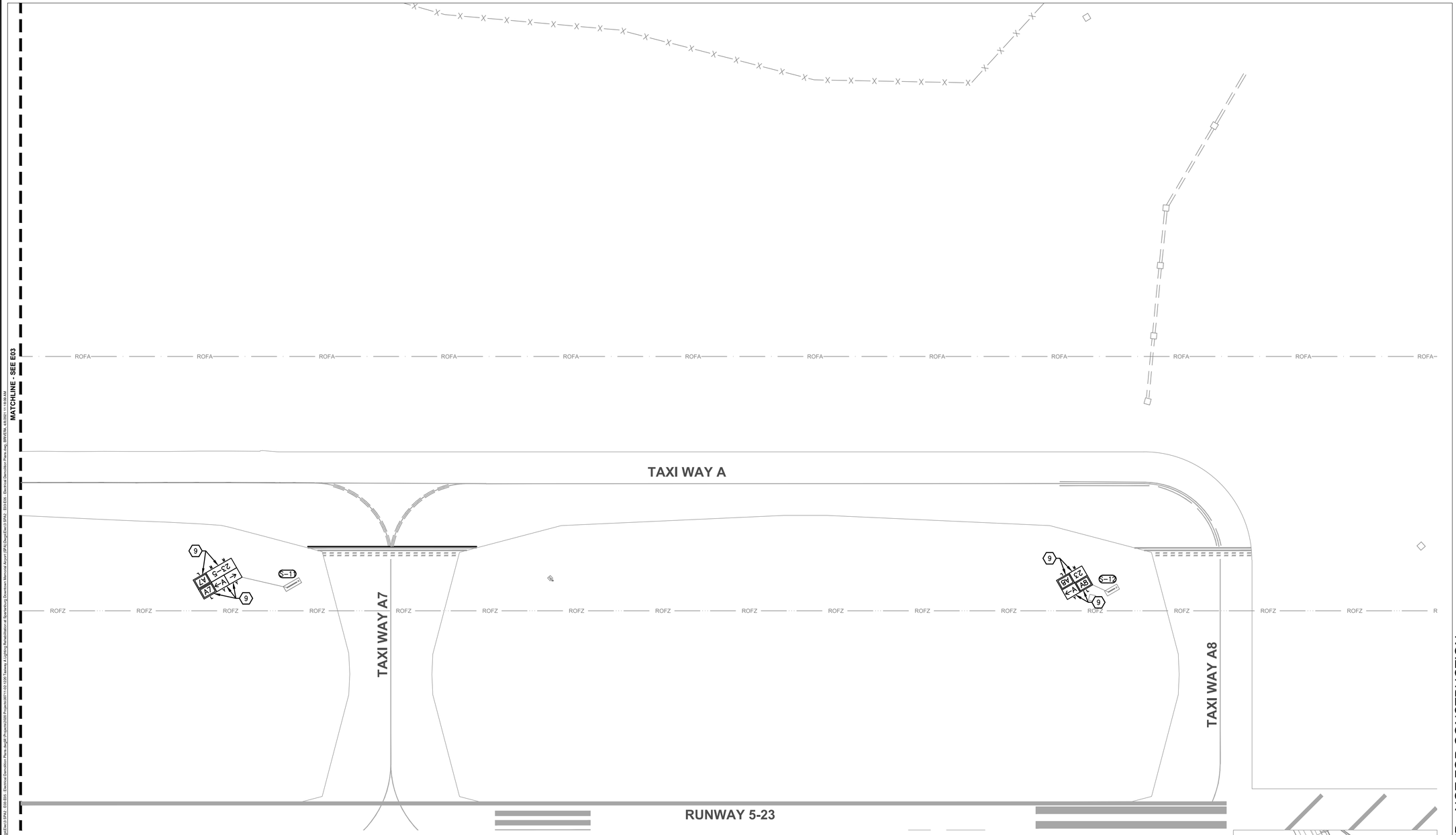
DRAWING NUMBER:
E04

TOG PROJ. NO.:
00711-02-1220

TOG PLOT DATE: 4/8/2021

FILE PATH: M:\Projects\2020 Projects\00711-02-1220 Taxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA)\Design\Electrical\Plans\Airfield\E04_Electrical Demolition Plans.dwg, BRYAN, 4/8/2021 11:15:08 AM

COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION/USE OF THE CONTENT OF THIS DOCUMENT, ADDITIONS OR MODIFICATIONS TO THE CONTENT OF THIS DOCUMENT, OR ANY PART THEREOF, WITHOUT THE EXPRESS WRITTEN PERMISSION OF WK DICKSON & CO., INC. IS PROHIBITED. ANY UNAUTHORIZED REPRODUCTION OR MODIFICATION OF THIS DOCUMENT, OR ANY PART THEREOF, WILL NOT BE AUTHORIZED BY WK DICKSON & CO., INC. AND WILL BE DONE WITHOUT THE RISK OF LEGAL ACTION. ANY COPIES MADE FROM THIS DOCUMENT SHALL NOT BE CONSIDERED TO BE VALID UNLESS IT IS AN EXACT COPY OF THE ORIGINAL OF THIS DOCUMENT, MARKED WITH AN ORIGINAL SIGNATURE AND SEAL, SHALL BE CONSIDERED TO BE VALID. TRUE COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. TRUE COPIES



ELECTRICAL DEMOLITION PLAN

NORTH

0 20' 40' 80' 120' SCALE: 1" = 40'-0"

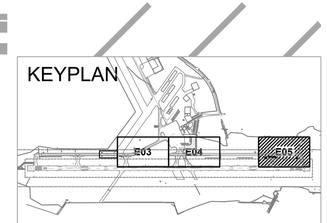
GENERAL NOTE

1. SEE **E01** FOR GENERAL NOTES.

KEYED NOTES

(9) CAREFULLY REMOVE EXISTING SIGN PANEL AND TURN OVER TO THE AIRPORT FOR FIRST RIGHT OF REFUSAL.

KEYPLAN



OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
1509 LADY STREET, SUITE K, COLUMBIA, SC 29201
T : 803-883-0483 | WWW.OHMEGAGROUP.COM
SC COA NO. 4769

DRAWING STATUS - ISSUE FOR BID - NOT FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA
THE OHMEGA GROUP LLC
NO. 4769
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
4-9-21
No. 25642
Mark A Morley
MARK A. MORLEY

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
TAXIWAY 'A' REHABILITATION DESIGN FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT (SPA) SPARTANBURG, SOUTH CAROLINA

DRAWING TITLE:
ELECTRICAL DEMOLITION PLAN

PROJ. MGR.:	SLG
DESIGN BY:	MAM
DRAWN BY:	BPR
PROJ. DATE:	4-9-2021

DRAWING NUMBER:
E05

TOG PROJ. NO.:
00711-02-1220

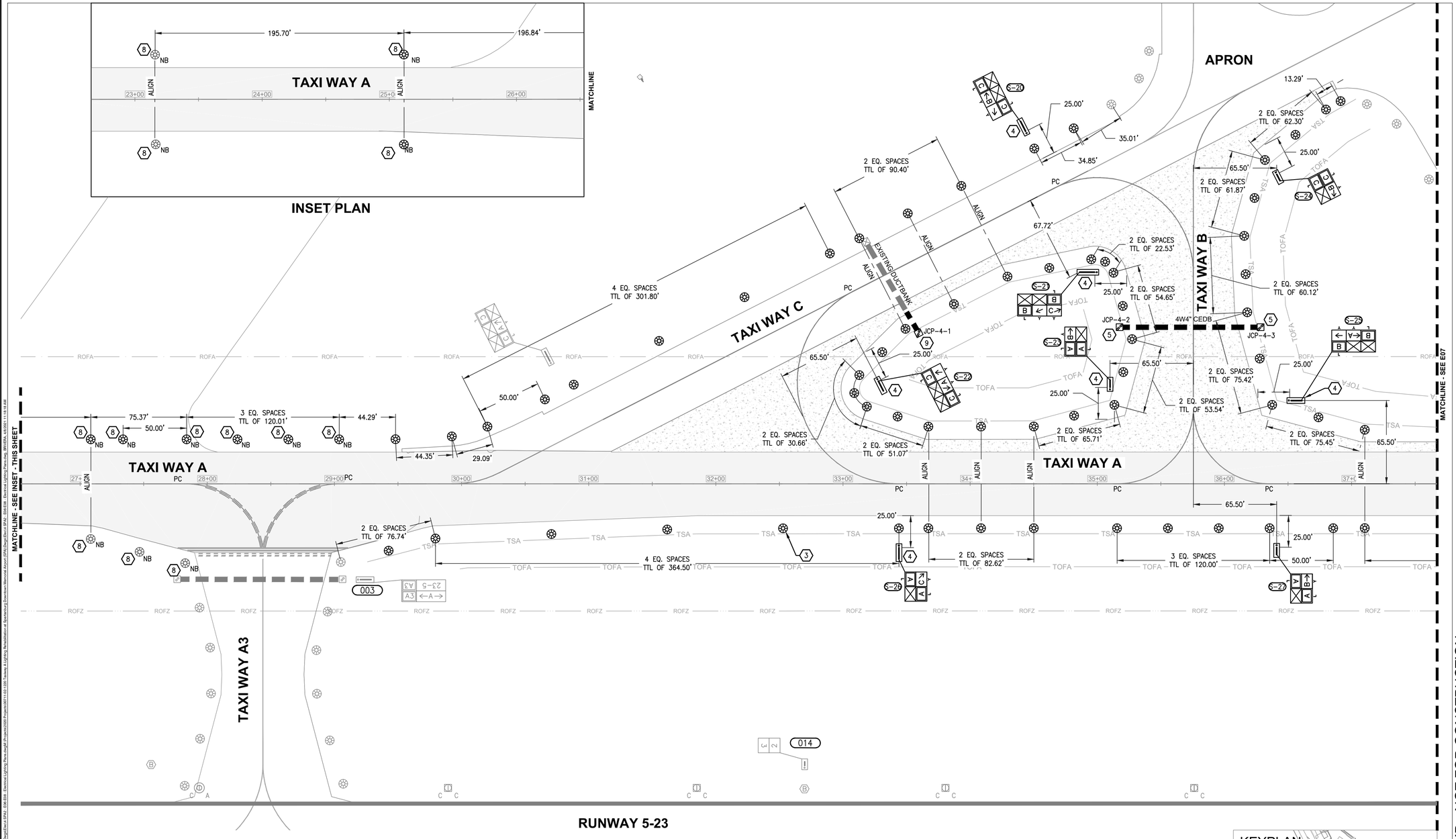
TOG PLOT DATE: 4/8/2021

FILE PATH: M:\Projects\00711-02-1220 Taxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA)\Design\Elec\ SPA1_E03-E05 - Electrical Demolition Plans.dwg[M. Projects\2020 Projects\00711-02-1220 Taxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA)\Design\Elec\ SPA1_E03-E05 - Electrical Demolition Plans.dwg, 4/8/2021 11:15:09 AM

COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION/USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR ALTERATIONS BY ANY METHOD, ELECTRONIC OR PRINTED, FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ANY UNAUTHORIZED USE, ADDITIONS OR ALTERATIONS BY ANY METHOD, ELECTRONIC OR PRINTED, FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ANY UNAUTHORIZED USE, FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VOID. 'INK' COPIES

FILE PATH M:\Projects\2020 Projects\0071.02-1220 Taxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA)\Dwg\Elect (SPA) - E06-E08 - Electrical Lighting Plans.dwg(R) (By:MAM) - E06-E08 - Electrical Lighting Plans.dwg(R) (Saved:4/8/2021 11:09:19 AM)

INSET PLAN



ELECTRICAL LIGHTING PLAN

NORTH

0 20' 40' 80' 120' SCALE: 1" = 40'-0"

GENERAL NOTE

1. SEE **E01** FOR GENERAL NOTES.

KEYED NOTES

(3) PROPOSED L-861T(L) TAXIWAY EDGE LIGHT, BASE MOUNTED. SEE SHEET **E11**. TYPICAL.

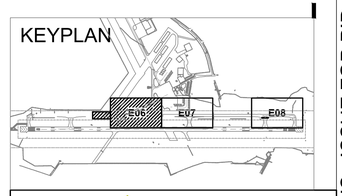
(4) PROPOSED GUIDANCE SIGN ON NEW CONCRETE FOUNDATION. SEE DETAILS ON SHEET **E16** AND SIGN SCHEDULE ON SHEET **E17**.

(5) PROPOSED JUNCTION CAN PLAZA. INSTALL AT END OF PROPOSED DUCT AT 15' FROM EDGE OF PAVEMENT. SEE SHEET **E14**.

(8) RELOCATE EXISTING ELEVATED TAXIWAY EDGE LIGHT ON NEW LIGHT BASE. THE CONTRACTOR SHALL CLEAN (AND REPAIR AS REQUIRED) LENS PRIOR TO INSTALLATION.

(9) PROPOSED JUNCTION CAN PLAZA. INSTALL AT END OF PROPOSED DUCTBANK EXTENSION AT 15' FROM EDGE OF PAVEMENT. SEE SHEET **E14**.

KEYPLAN



OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
1509 LADY STREET, SUITE K, COLUMBIA, SC 29201
T : 803-883-0483 | WWW.OHMEGAGROUP.COM
SC COA NO. 4769

DRAWING STATUS - ISSUE FOR BID - NOT FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA
THE OHMEGA GROUP LLC
NO. 4769
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
4-9-21
No. 25642
MARK A. MORLEY

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
TAXIWAY 'A' REHABILITATION DESIGN FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT (SPA) SPARTANBURG, SOUTH CAROLINA

DRAWING TITLE:
ELECTRICAL LIGHTING PLAN

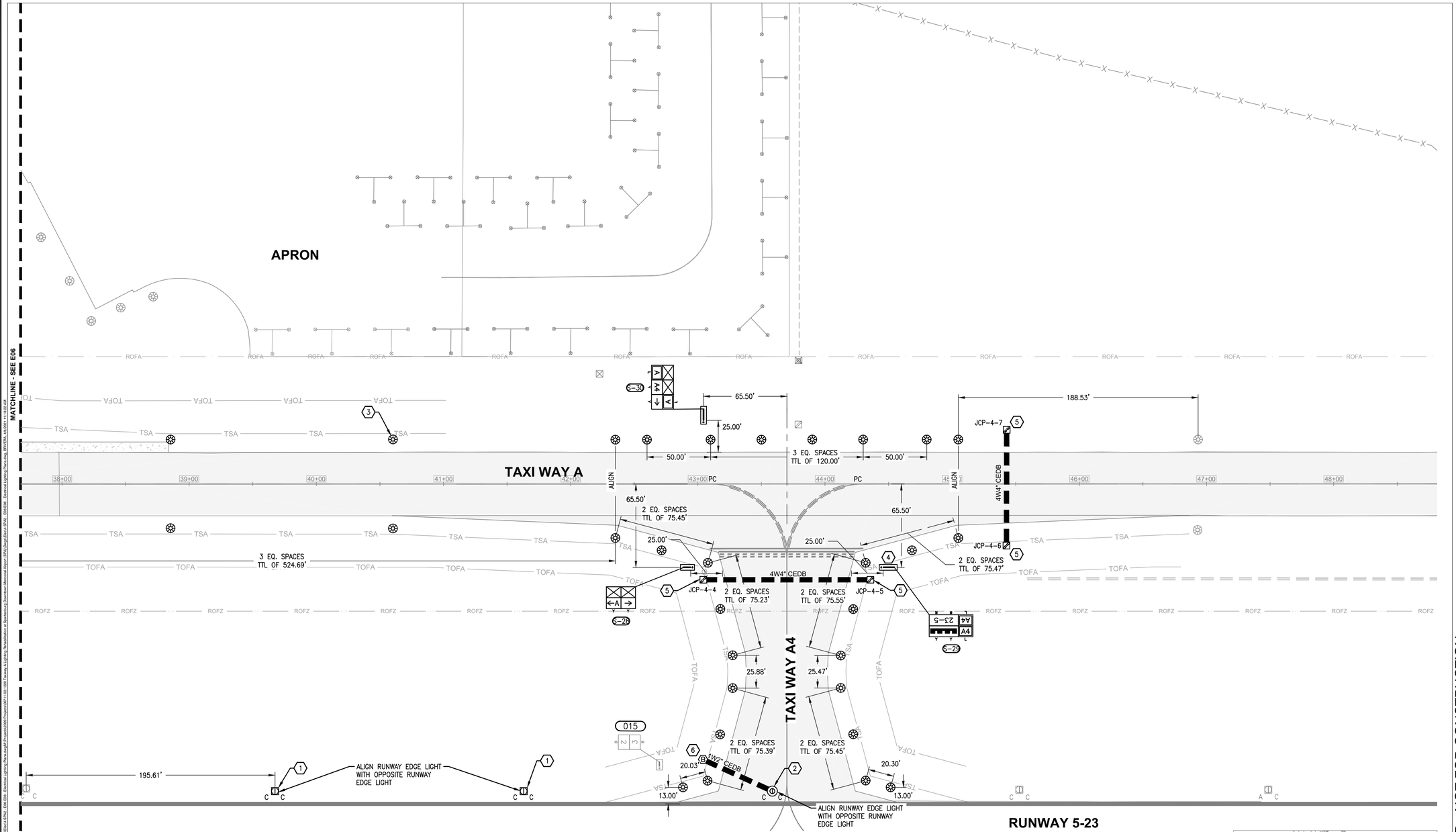
PROJ. MGR.:	SLG
DESIGN BY:	MAM
DRAWN BY:	BPR
PROJ. DATE:	4-9-2021

DRAWING NUMBER:
E06

TOG PROJ. NO.:
00711-02-1220

TOG PLOT DATE: 4/8/2021

COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION/USE OF THE CONTENT OF THIS DOCUMENT, ADDITIONS OR MODIFICATIONS TO THE CONTENT OF THIS DOCUMENT BY ANY METHOD WITHOUT THE EXPRESS WRITTEN PERMISSION OF WK DICKSON & CO., INC. IS PROHIBITED. ANY COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID, TRUE COPIES



ELECTRICAL LIGHTING PLAN

NORTH

0 20' 40' 80' 120' SCALE: 1" = 40'-0"

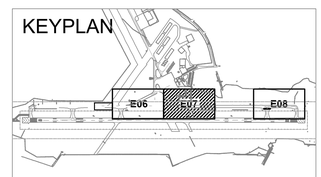
KEYED NOTES

1. PROPOSED L-862 ELEVATED RUNWAY EDGE LIGHT, BASE MOUNTED. SEE SHEET **E11**. TYPICAL.
2. PROPOSED L-850C IN-PAVEMENT RUNWAY EDGE LIGHT, BASE MOUNTED. SEE SHEET **E12**.
3. PROPOSED L-861T(L) TAXIWAY EDGE LIGHT, BASE MOUNTED. SEE SHEET **E11**. TYPICAL.
4. PROPOSED GUIDANCE SIGN ON NEW CONCRETE FOUNDATION. SEE DETAILS ON SHEET **E16** AND SIGN SCHEDULE ON SHEET **E17**.
5. PROPOSED JUNCTION CAN PLAZA. INSTALL AT END OF PROPOSED DUCT AT 15' FROM EDGE OF PAVEMENT. SEE SHEET **E14**.
6. PROPOSED L-867, SIZE B, JUNCTION CAN WITH BLANK COVER. INSTALL AT END OF PROPOSED DUCT AT 15' FROM EDGE OF PAVEMENT.

GENERAL NOTE

1. SEE **E01** FOR GENERAL NOTES.

KEYPLAN



OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
1509 LADY STREET, SUITE K, COLUMBIA, SC 29201
T : 803-883-0483 | WWW.OHMEGAGROUP.COM
SC COA NO. 4769

WK DICKSON
community infrastructure consultants
1320 MAIN STREET
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA
THE OHMEGA GROUP LLC
NO. 4769
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
4-9-21
No. 25642
Mark A Morley
MARK A. MORLEY

DRAWING STATUS - ISSUE FOR BID - NOT FOR CONSTRUCTION

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
TAXIWAY 'A' REHABILITATION DESIGN FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT (SPA) SPARTANBURG, SOUTH CAROLINA

DRAWING TITLE:
ELECTRICAL LIGHTING PLAN

PROJ. MGR.:	SLG
DESIGN BY:	MAM
DRAWN BY:	BPR
PROJ. DATE:	4-9-2021

DRAWING NUMBER:
E07

TOG PROJ. NO.:
00711-02-1220

TOG PLOT DATE: 4/8/2021

FILE PATH: M:\Projects\2020 Projects\00711-02-1220 Taxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA)\Design\Elect (SPA)_E06-E08 - Electrical Lighting Plans.dwg, BRYAN, 4/8/2021 11:02:29 AM

COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION/USE OF THE CONTENT OF THIS DOCUMENT, ADDITIONS OR REVISIONS BY OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF WK DICKSON & CO., INC. IS PROHIBITED. ANY REPRODUCTION NOT BEARING THE ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VOID. TRUE COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. TRUE COPIES

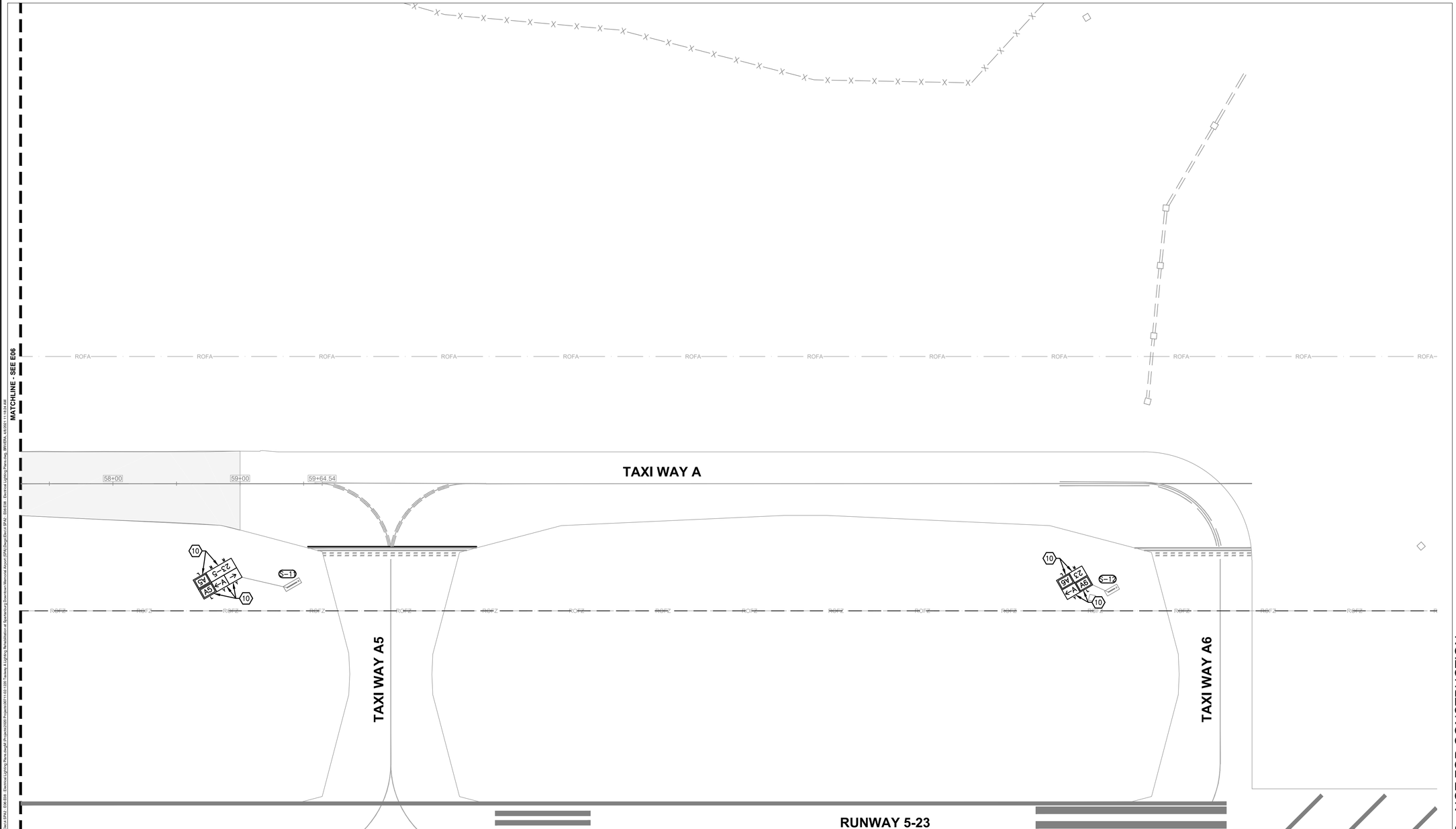
WK DICKSON
community infrastructure consultants
1320 MAIN STREET
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA
THE OHMEGA GROUP LLC
NO. 4769
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
4-9-21
No. 25642
Mark A Morley
MARK A. MORLEY

REVISION RECORD

NO.	DATE	DESCRIPTION	BY



ELECTRICAL LIGHTING PLAN

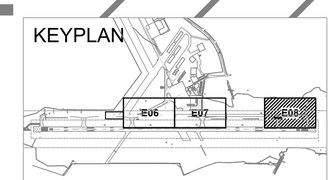
GENERAL NOTE

1. SEE **E01** FOR GENERAL NOTES.

KEYED NOTES

(10) PROPOSED NEW PANEL ON EXISTING SIGN. SEE SIGN SCHEDULE ON SHEET **E17**.

KEYPLAN



OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
1509 LADY STREET, SUITE K, COLUMBIA, SC 29201
T : 803-883-0483 | WWW.OHMEGAGROUP.COM
SC COA NO. 4769

DRAWING STATUS - ISSUE FOR BID - NOT FOR CONSTRUCTION

PROJECT NAME:
TAXIWAY 'A' REHABILITATION DESIGN FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT (SPA) SPARTANBURG, SOUTH CAROLINA

DRAWING TITLE:
ELECTRICAL LIGHTING PLAN

PROJ. MGR.:	SLG
DESIGN BY:	MAM
DRAWN BY:	BPR
PROJ. DATE:	4-9-2021

DRAWING NUMBER:
E08

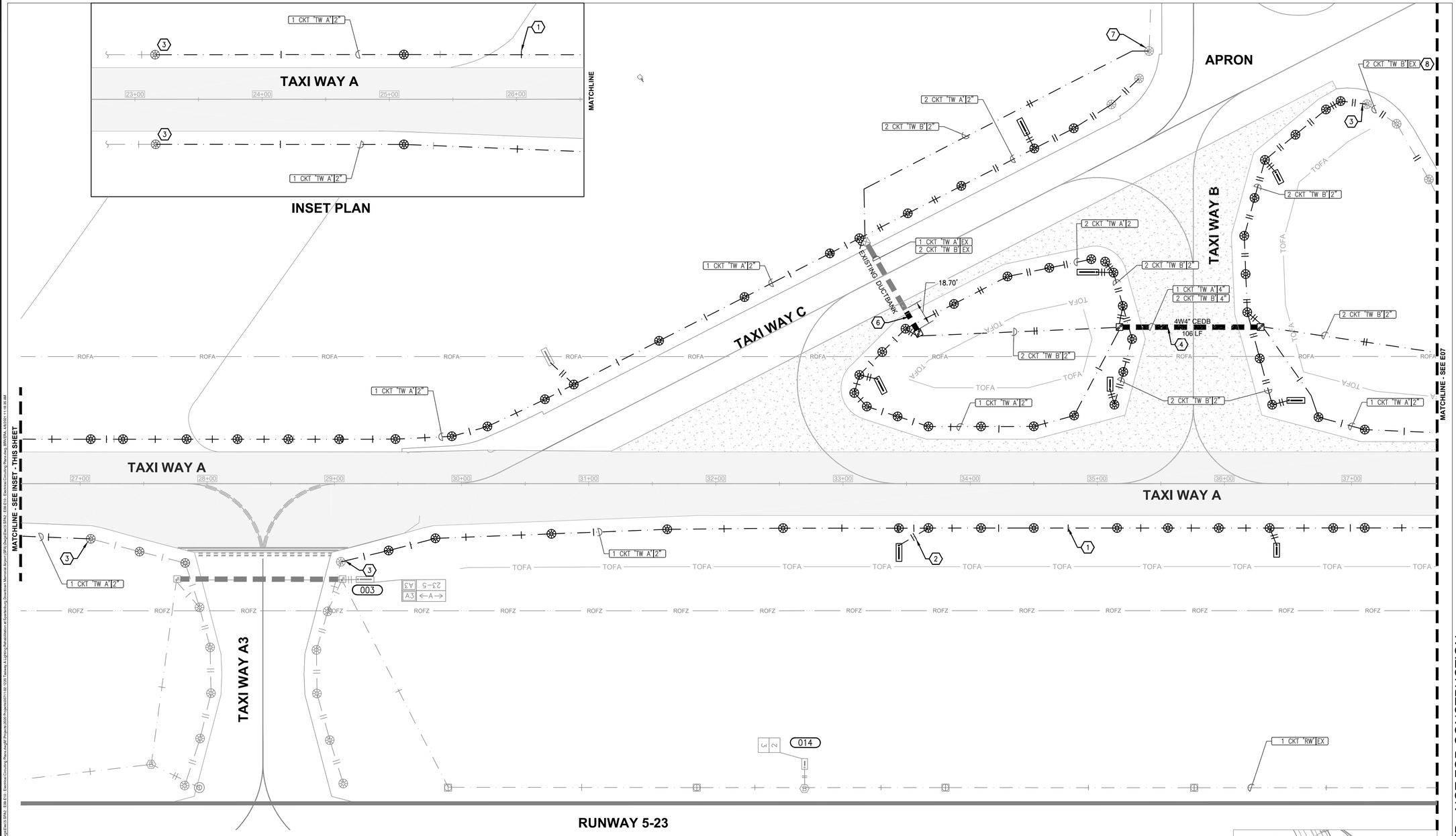
TOG PROJ. NO.:
00711-02-1220

TOG PLOT DATE: 4/8/2021

FILENAME Projects\2020 Projects\00711-02-1220 Taxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA)\Dwg\Electrical\ SPA2 - E08.E08 - Electrical Lighting Plans.mpg BRYAN, 4/8/2021 11:10:24 AM

COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENT OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENT OF THIS DOCUMENT BY ANY METHOD OR MEDIUM IS STRICTLY PROHIBITED BY COPYRIGHT LAW. ANY UNAUTHORIZED USE OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THE ARCHITECT AND THE USER SHALL INDEMNIFY AND HOLD THE ARCHITECT HARMLESS FROM ANY AND ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM. ONLY THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. THE COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. THE COPIES

INSET PLAN



ELECTRICAL CIRCUITING PLAN

NORTH

0 20' 40' 80' 120' SCALE: 1" = 40'-0"

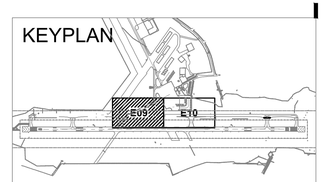
GENERAL NOTE

1. SEE **E01** FOR GENERAL NOTES.

KEYED NOTES

1. PROPOSED DIRECT BURIED 2" PVC WITH 1#8 5KV, TYPE C, L-824 AIRFIELD LIGHTING CABLE. TYPICAL.
2. PROPOSED DIRECT BURIED 2" PVC WITH 2#8 5KV, TYPE C, L-824 AIRFIELD LIGHTING CABLES. TYPICAL.
3. SPLICE PROPOSED CABLE TO EXISTING CABLE INSIDE LIGHT BASE USING L-823 SPLICE CONNECTOR KIT. SEE DETAIL ON SHEET **E13**.
4. PROPOSED 2-WAY, 4" PVC CONCRETE ENCASED DUCTBANK. EXTEND TO 15' FROM EDGE OF PAVEMENT. SEE SHEET **E13**
6. PROPOSED EXISTING DUCTBANK EXTENSION. EXTEND LENGTH AS SHOWN ON PLAN TO 15' FROM EDGE OF PAVEMENT. FIELD VERIFY SIZE AND AMOUNT OF CONDUITS TO EXTEND.
7. ALL TAXIWAY LIGHTS NORTHWEST OF THIS LIGHT FIXTURE SHALL BE ON TAXIWAY B CIRCUIT. SPLICE PROPOSED 'TAXIWAY B' CABLES TO EXISTING CABLES INSIDE EXISTING LIGHT BASE USING L-823 SPLICE CONNECTOR KIT. SEE DETAIL ON SHEET **E13**
8. PROPOSED 2#8 5KV, TYPE C, L-824 AIRFIELD LIGHTING CABLES IN EXISTING LIGHTING CIRCUIT CONDUIT. TYPICAL.

KEYPLAN



DRAWING STATUS - ISSUE FOR BID - NOT FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA
THE OHMEGA GROUP LLC
NO. 4769
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
4-9-21
No. 25642
MARK A. MORLEY

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
TAXIWAY 'A' REHABILITATION DESIGN FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT (SPA) SPARTANBURG, SOUTH CAROLINA

DRAWING TITLE:
ELECTRICAL CIRCUITING PLAN

PROJ. MGR.:	SLG
DESIGN BY:	MAM
DRAWN BY:	BPR
PROJ. DATE:	4-9-2021

DRAWING NUMBER:
E09

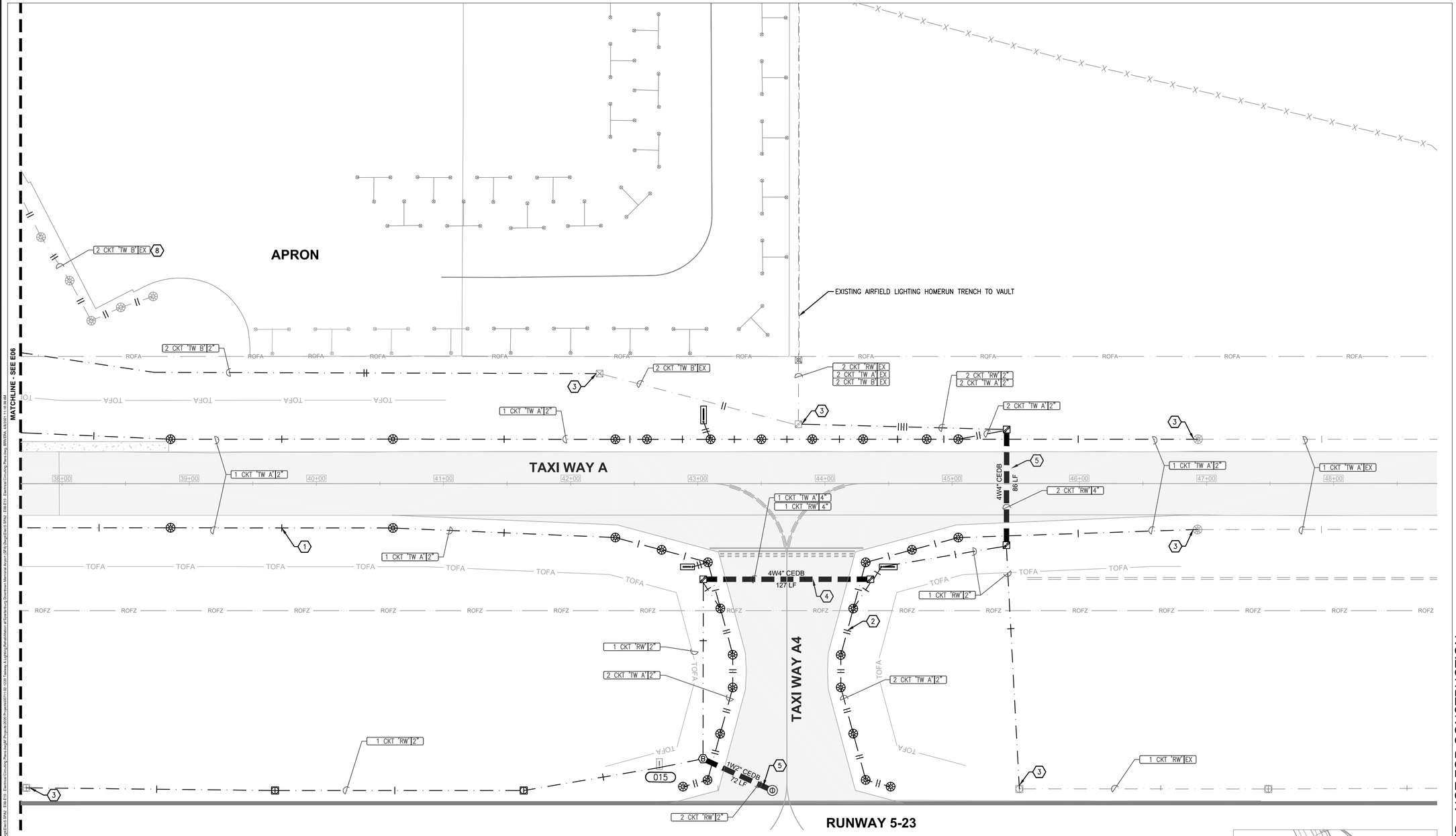
TOG PROJ. NO.:
00711-02-1220

OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
1509 LADY STREET, SUITE K, COLUMBIA, SC 29201
T : 803-883-0483 | WWW.OHMEGAGROUP.COM
SC COA NO. 4769

TOG PLOT DATE: 4/8/2021

FILENAME Projects\2020 Projects\00711-02-1220 Taxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA)\Design\Electrical\SPA - E09 E10 - Electrical Circuiting Plan.dwg, BRYAN, 4/8/2021 11:18:30 AM

COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENT OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENT OF THIS DOCUMENT BY ANY METHOD, ELECTRONIC OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF WK DICKSON & CO., INC. IS STRICTLY PROHIBITED. THIS DOCUMENT IS NOT TO BE CONSIDERED TO BE VALID UNLESS IT BEARS THE ORIGINAL SIGNATURE AND SEAL OF THE ENGINEER OF RECORD. ANY COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. THESE COPIES



NORTH

ELECTRICAL CIRCUITING PLAN

0 20' 40' 80' 120' SCALE: 1" = 40'-0"

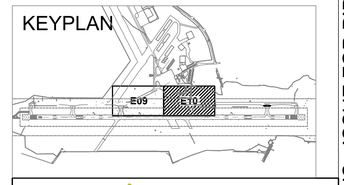
KEYED NOTES

1. PROPOSED DIRECT BURIED 2" PVC WITH 1#8 5KV, TYPE C, L-824 AIRFIELD LIGHTING CABLE. TYPICAL.
2. PROPOSED DIRECT BURIED 2" PVC WITH 2#8 5KV, TYPE C, L-824 AIRFIELD LIGHTING CABLES. TYPICAL.
3. SPLICE PROPOSED CABLE TO EXISTING CABLE INSIDE LIGHT BASE USING L-823 SPLICE CONNECTOR KIT. SEE DETAIL ON SHEET **E13.**
4. PROPOSED 2-WAY, 4" PVC CONCRETE ENCASED DUCTBANK. EXTEND TO 15' FROM EDGE OF PAVEMENT. SEE SHEET **E13.**
5. PROPOSED 1-WAY, 2" PVC CONCRETE ENCASED DUCTBANK. EXTEND TO 15' FROM EDGE OF PAVEMENT. SEE SHEET **E13**
8. PROPOSED 2#8 5KV, TYPE C, L-824 AIRFIELD LIGHTING CABLES IN EXISTING LIGHTING CIRCUIT CONDUIT. TYPICAL.

GENERAL NOTE

1. SEE **E01** FOR GENERAL NOTES.

KEYPLAN



OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
1509 LADY STREET, SUITE K, COLUMBIA, SC 29201
T : 803-883-0483 | WWW.OHMEGAGROUP.COM
SC COA NO. 4769

DRAWING STATUS - ISSUE FOR BID - NOT FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA
THE OHMEGA GROUP LLC
NO. 4769
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
4-9-21
No. 25642
Mark A Morley
MARK A. MORLEY

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
TAXIWAY 'A' REHABILITATION DESIGN FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT (SPA) SPARTANBURG, SOUTH CAROLINA

DRAWING TITLE:
ELECTRICAL CIRCUITING PLAN

PROJ. MGR.:	SLG
DESIGN BY:	MAM
DRAWN BY:	BPR
PROJ. DATE:	4-9-2021

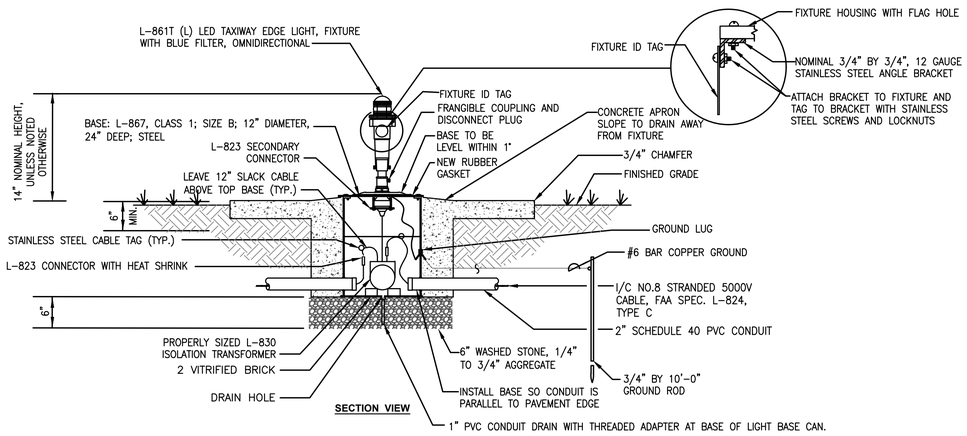
DRAWING NUMBER:
E10

TOG PROJ. NO.:
00711-02-1220

TOG PLOT DATE: 4/8/2021

FILE PATH: M:\Projects\00711-02-1220 Taxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA)\Design\Elec\ SPA1_E06 E10 - Electrical Circuiting Plans.dwg, BRYDEN, 4/8/2021 11:39:38 AM

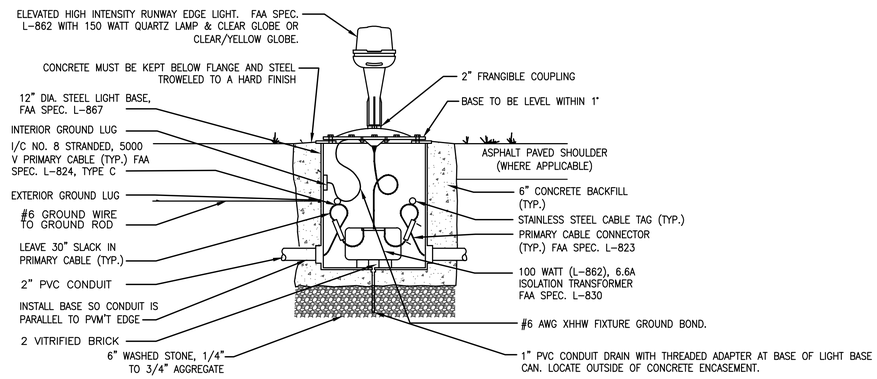
COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION/USE OF THE CONTENT OF THIS DOCUMENT, ADDITIONS OR MODIFICATIONS BY ANY METHOD WITHOUT THE EXPRESS WRITTEN PERMISSION OF WK DICKSON & CO., INC. IS PROHIBITED. COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID, TRUE COPIES



1 MEDIUM INTENSITY TAXIWAY EDGE LIGHT DETAIL - BASE MOUNTED

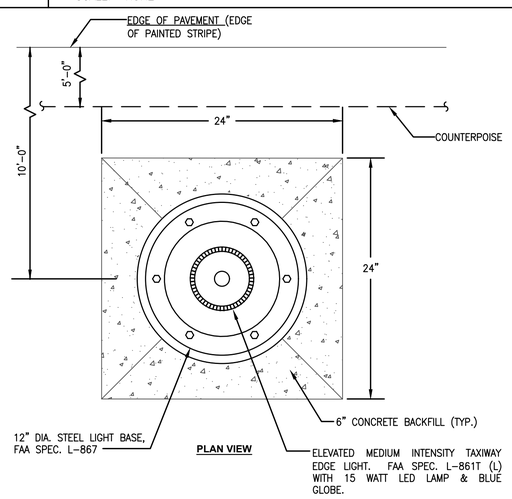
SCALE: NONE

NOTE: FIXTURE IDENTIFYING NUMBERS (1" MIN. HEIGHT) SHALL BE IMPRESSED ON A 2" MIN. DIA. NON-CORROSIVE METAL DISC AND ATTACHED TO THE MOUNTING COLUMN WITH TWO STAINLESS STEEL SCREWS.



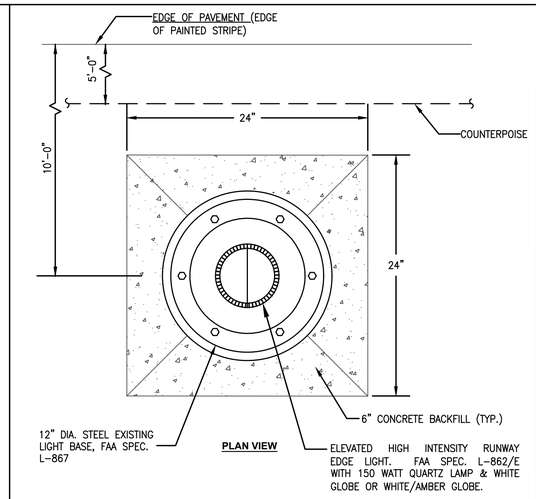
2 HIGH INTENSITY RUNWAY EDGE LIGHT DETAIL - BASE MOUNTED

SCALE: NONE



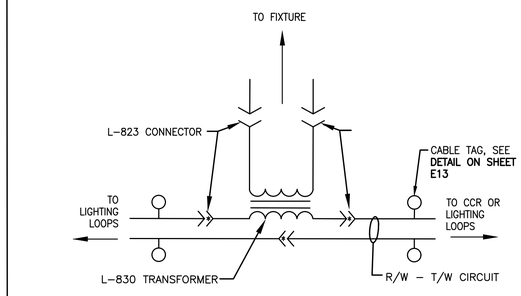
3 TAXIWAY EDGE LIGHT DETAIL - BASE MOUNTED

SCALE: NONE



4 RUNWAY EDGE LIGHT DETAIL - BASE MOUNTED

SCALE: NONE

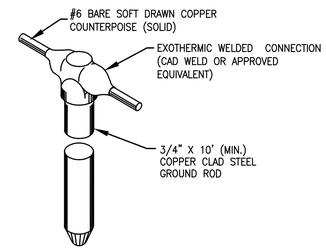


* INSTALL SHRINKABLE TUBING OVER CONNECTOR

DO NOT USE HEAT SHRINK TUBING ON THE SECONDARY OF THE L-830 TRANSFORMER WHEN CONNECTED TO AN ELEVATED FIXTURE.

5 LIGHTING CONNECTION SCHEMATIC

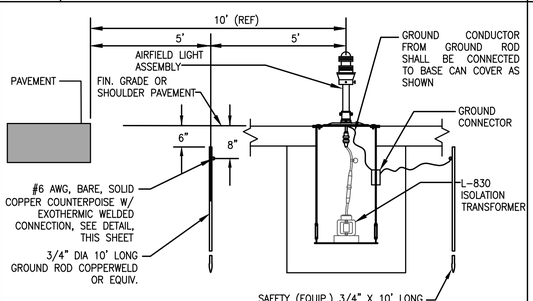
SCALE: NONE



NOTE: GROUND RODS SHALL BE INSTALLED NOT MORE THAN 500 FEET APART.

6 COUNTERPOISE EXOTHERMIC WELD CONNECTION

SCALE: NONE

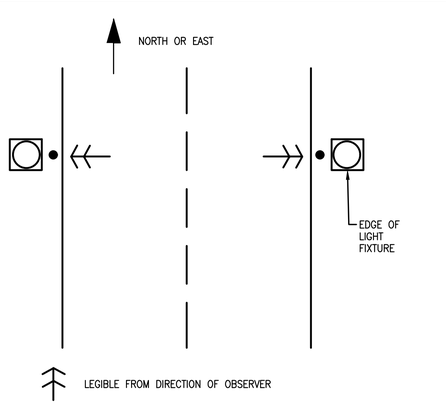


COUNTERPOISE NOTES

1. TYPE AND MINIMUM NUMBER OF GROUND RODS SHALL BE AS SPECIFIED ON THE PLAN.
2. INSTALL GROUND ROD AT MAXIMUM 500' SPACING. USE GROUND ROD TO TERMINATE THE COUNTERPOISE AT BOTH ENDS OF DUCT.
3. COST OF GROUND ROD IS INCIDENTAL TO THE ASSOCIATED ITEMS REQUIRING GROUND UNLESS OTHERWISE SPECIFIED.
4. THE NUMBER OF GROUND RODS IS SITE SPECIFIC AND MAY DEPEND ON SOIL RESISTIVITY.

7 TYPICAL CABLE AND COUNTERPOISE LOCATION

SCALE: NONE



8 FIXTURE I.D. ORIENTATION

SCALE: NONE

WK DICKSON
community infrastructure consultants
1320 MAIN STREET
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA — THE OHMEGA GROUP LLC NO. 4769 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER — 4-9-21 — No. 25642 — MARK A. MORLEY

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME: TAXIWAY 'A' REHABILITATION DESIGN FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT (SPA) SPARTANBURG, SOUTH CAROLINA

DRAWING TITLE: AIRFIELD ELECTRICAL EDGE LIGHT DETAILS

DRAWING STATUS - ISSUE FOR BID - NOT FOR CONSTRUCTION

PROJ. MGR.:	SLG
DESIGN BY:	MAM
DRAWN BY:	BPR
PROJ. DATE:	4-9-2021

DRAWING NUMBER: E11

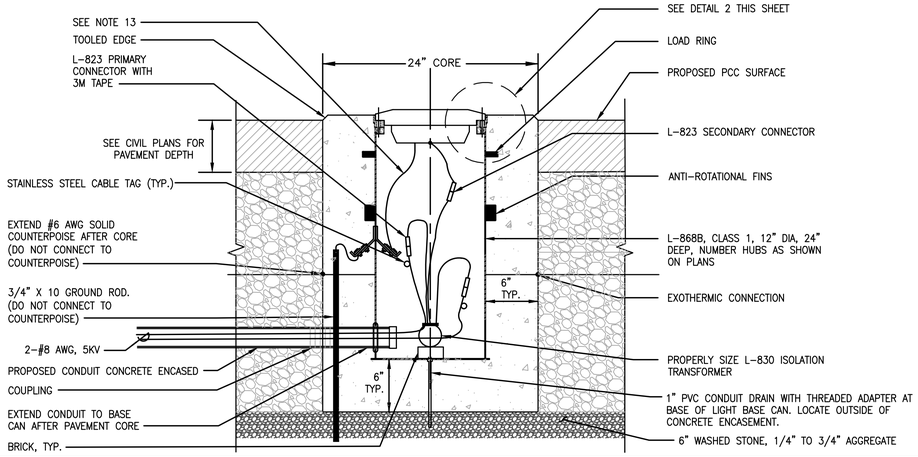
TOG PROJ. NO.: 00711-02-1220

OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
1509 LADY STREET, SUITE K, COLUMBIA, SC 29201
T : 803-883-0483 | WWW.OHMEGAGROUP.COM
SC COA NO. 4769

TOG PLOT DATE: 4/8/2021

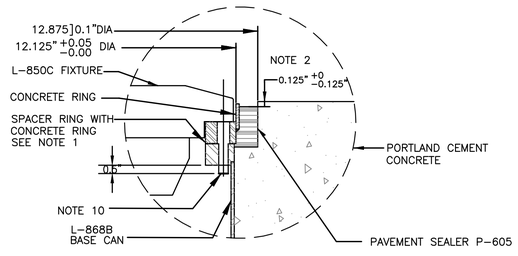
P:\SPA\Civil Projects\2020 Projects\00711-02-1220 - Taxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA) Design\Excel & SPAS\ E11.E12 - Airfield Electrical Edge Light Details.mxd" BRIANNA 4/8/2021 11:18:48 AM

COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION/USE OF THE CONTENT OF THIS DOCUMENT, ADDITIONS OR ALTERATIONS TO THIS DOCUMENT IN ANY FORM WITHOUT THE EXPRESS WRITTEN CONSENT OF WK DICKSON & CO., INC. IS PROHIBITED. ANY COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID, TRUE COPIES.



1 **IN-PAVEMENT HIGH INTENSITY RUNWAY EDGE LIGHT DETAIL - BASE MOUNTED**

SCALE: NONE



2 **SPACER RING INSTALLATION**

SCALE: NONE

3 **NOT USED**

SCALE: NONE

4 **NOT USED**

SCALE: NONE

IN-PAVEMENT EDGE LIGHT NOTES

1. THE SPACER RING IS DESIGNED AS A NOMINAL 0.75" THICKNESS. THE SPACER RING MAY BE REQUIRED TO BE THINNER OR THICKER DEPENDING ON BASE CAN INSTALLATION AND PAVING TECHNIQUES. THIS CONTRACTOR SHALL BE RESPONSIBLE TO MEASURE AND DETERMINE THE REQUIRED THICKNESS OF EACH INDIVIDUAL SPACER RING REQUIRED TO PUT THE AIRFIELD LIGHTING FIXTURE AT THE CORRECT ELEVATION, AZIMUTH AND ROTATION PER FAA ADVISORY CIRCULARS, LATEST EDITIONS. THE CONTRACTOR'S BID PRICE FOR EACH LIGHT FIXTURE SHALL INCLUDE FURNISHING AND INSTALLING ALL SPACER RINGS. THE FIXTURE SHALL BE SEALED WITH A O-RING IN A GROOVED RING.
2. THE P-605 SEALER SHALL FILL THE VOID TO WITHIN 0.125" OF THE TOP EDGE OF THE CONCRETE RING AT THE LOWEST POINT OF THE CONCRETE RING. ANY OVER POURS SHALL BE REPLACED BY AND AT THE CONTRACTOR'S EXPENSE.
3. ALL AIRFIELD LIGHTING MATERIALS SHALL COMPLY WITH FAA REQUIREMENTS.
4. TWO PIECE BASE CANS MAY BE USED WHERE PAVING INTERFERENCES REQUIRE THEIR USE. THE REBAR CAGE SHALL BE EXTENDED/MODIFIED TO ACCOMMODATE THE TWO PIECE BASE CAN.
5. ALL BASE CAN INSTALLATION TECHNIQUES, METHODS, MATERIALS, ETC., SHALL BE SUBMITTED TO THE RESIDENT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK.
6. IMMEDIATELY AFTER THE HOLES ARE CORED IN THE SOIL CEMENT, THE BASE CANS SHALL BE INSTALLED AND THE P-610 PLACED SO AS TO PREVENT WATER FROM ENTERING THE STABILIZED SUBGRADE.
7. BEFORE PAVING MAY PROCEED THE CONTRACTOR SHALL DEMONSTRATE TO THE RESIDENT ENGINEER THAT THE BASE CANS ARE AT THE CORRECT ELEVATION, AZIMUTH AND ROTATION AND THAT THE PROPER CLEARANCE EXISTS BETWEEN THE BASE CAN AND THE PAVING TRAIN.
8. THE FINISHED PAVEMENT SURFACE SHALL BE PROTECTED FROM FOREIGN SUBSTANCES WHICH COULD CAUSE STAINING, IE. OIL, P-605, ETC. THE CONTRACTOR SHALL IMMEDIATELY CLEAN ALL SPILLS AND CORRECT/CLEAN ANY STAINED SURFACES AT THE CONTRACTOR'S EXPENSE.
9. USE ELECTRICALLY CONDUCTIVE SILICONE GREASE AS A SEALANT BETWEEN SEMI-FLUSH FIXTURE AND ADAPTER/SPACER RING IN PLACE OF AN O-RING. USE ELECTRICALLY CONDUCTIVE SILICONE GREASE BETWEEN ADAPTER/SPACER RING AND BASE CAN. DO NOT USE EXCESSIVE AMOUNTS OF SEALANT. THE SEALANT SHALL ACT AS A BARRIER FOR WATER, BUT SHALL NOT EFFECT THE ELECTRICAL CONDUCTIVITY BETWEEN THE BASE CANS AND THE SPACER RINGS.
10. THE FIXTURE MOUNTING BOLTS SHALL EXTEND THRU THE BASE CAN MOUNTING FLANGE INTO THE BASE CAN A MIN. OF 0.5". THE BOLTS SHALL HAVE ENOUGH THREAD LENGTH SO THEY DO NOT SHOULDER OUT BEFORE THE FIXTURE IS SECURELY TIGHTENED.LL HUBS SHALL BE FACTORY DRILL PRIOR TO GALVANIZING.
11. ALL FIXTURE CASTINGS SHALL HAVE A 12" DIAMETER. 8" LIGHT FIXTURES WITH 12" ADAPTER RING WILL NOT BE ACCEPTED.
12. BACKFILL UNDER TURF SHALL BE NATIVE MATERIAL COMPACTED PER P-152. BACKFILL UNDER PAVED AREAS SHALL BE FLOWABLE FILL PER P-153.
13. LIGHT FIXTURE SHALL BE BONDED TO THE LIGHT BASE INTERNAL GROUND LUG VIA A NO.6 AWG XHHW STRANDED GREEN 600V COPPER WIRE. CABLE LENGTH SHALL BE SUFFICIENT TO ALLOW FOR THE REMOVAL OF THE LIGHT FIXTURE FOR ROUTINE MAINTENANCE.

WK DICKSON
community infrastructure consultants
1320 MAIN STREET
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA
THE OHMEGA GROUP LLC
NO. 4769
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
4-9-21
No. 25642
Mark A Morley
MARK A. MORLEY

REVISION RECORD

NO.	DESCRIPTION	DATE	BY

DRAWING STATUS - ISSUE FOR BID - NOT FOR CONSTRUCTION

PROJECT NAME:
TAXIWAY 'A' REHABILITATION DESIGN FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT (SPA) SPARTANBURG, SOUTH CAROLINA

DRAWING TITLE:
AIRFIELD ELECTRICAL EDGE LIGHT DETAILS

PROJ. MGR.:	SLG
DESIGN BY:	MAM
DRAWN BY:	BPR
PROJ. DATE:	4-9-2021

DRAWING NUMBER:
E12

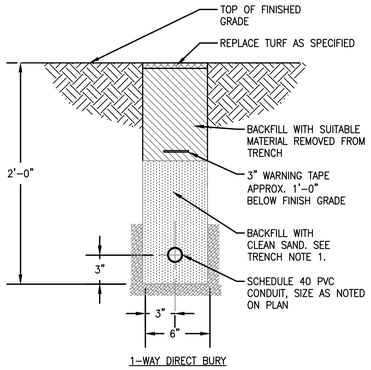
TOG PROJ. NO.:
00711-02-1220

OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
1509 LADY STREET, SUITE K, COLUMBIA, SC 29201
T : 803-883-0483 | WWW.OHMEGAGROUP.COM
SC COA NO. 4769

TOG PLOT DATE: 4/8/2021

FILE PATH: P:\Projects\2020 Projects\00711-02-1220 Taxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA)\Design\Excel & PDFs - E12 E13 - Airfield Electrical Edge Light Details.dwg, BRENNA, 4/8/2021 11:18:09 AM

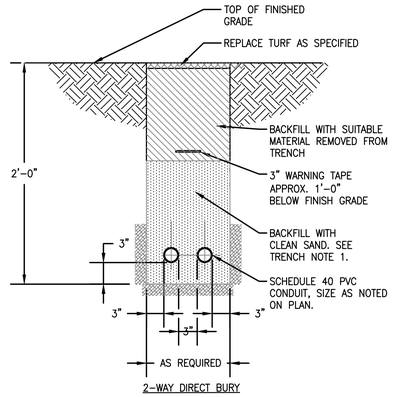
COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THIS CONTENT OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENT OF THIS DOCUMENT BY ANY METHOD, ELECTRONIC OR OTHERWISE, WITHOUT THE PRIOR WRITTEN CONSENT OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. ANY COPY OF THIS DOCUMENT OR PORTION THEREOF MUST CONTAIN THIS COPYRIGHT NOTICE AND ALL OTHER RESTRICTIVE LEGENDS APPEARING ON THE ORIGINAL VERSION. ANY COPY NOT PRODUCED FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VOID. FAX COPIES



1-WAY DIRECT BURY

TRENCH NOTE
1. EXISTING EXCAVATED TRENCH MATERIAL MAY BE USED AS BACKFILL IN LIEU OF SAND, PROVIDED IT CONTAINS NO MINERAL AGGREGATE PARTICLES THAT WOULD BE RETAINED ON A 1/4" "SIEVE".

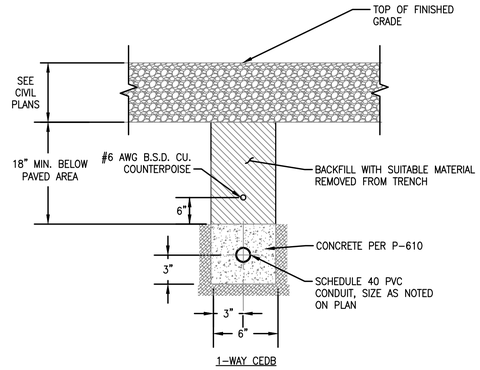
1 1-WAY DIRECT BURIED CONDUIT DETAIL
SCALE: NONE



2-WAY DIRECT BURY

TRENCH NOTE
1. EXISTING EXCAVATED TRENCH MATERIAL MAY BE USED AS BACKFILL IN LIEU OF SAND, PROVIDED IT CONTAINS NO MINERAL AGGREGATE PARTICLES THAT WOULD BE RETAINED ON A 1/4" "SIEVE".

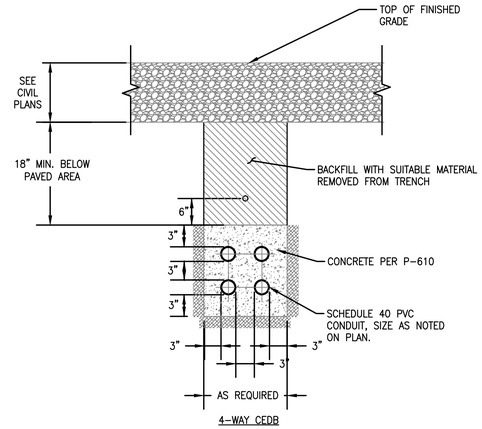
2 2-WAY DIRECT BURIED CONDUIT DETAIL
SCALE: NONE



1-WAY CEDB

TRENCH NOTE
1. EXISTING EXCAVATED TRENCH MATERIAL MAY BE USED AS BACKFILL IN LIEU OF SAND, PROVIDED IT CONTAINS NO MINERAL AGGREGATE PARTICLES THAT WOULD BE RETAINED ON A 1/4" "SIEVE".

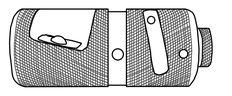
3 CONCRETE ENCASED DUCTBANK - 1-WAY SCALE: NONE



4-WAY CEDB

TRENCH NOTE
1. EXISTING EXCAVATED TRENCH MATERIAL MAY BE USED AS BACKFILL IN LIEU OF SAND, PROVIDED IT CONTAINS NO MINERAL AGGREGATE PARTICLES THAT WOULD BE RETAINED ON A 1/4" "SIEVE".

4 CONCRETE ENCASED DUCTBANK - 4-WAY SCALE: NONE

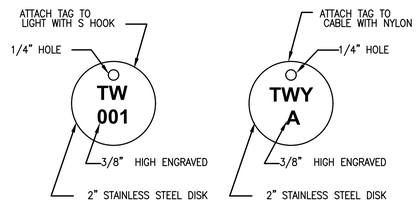


CABLE END STRIPPER/PENCILLER

CRIMPING TOOL

CRIMPING TOOLS AND CABLE END STRIPPER/ PENCILLER TOOLS REQUIRED FOR ALL 5KV. L-824C CABLE CONNECTIONS TO L-823 CONNECTORS. CRIMPING TOLL SHALL BE FURNISHED AS RECOMMENDED BY THE L-823 CONNECTOR KIT MANUFACTURER

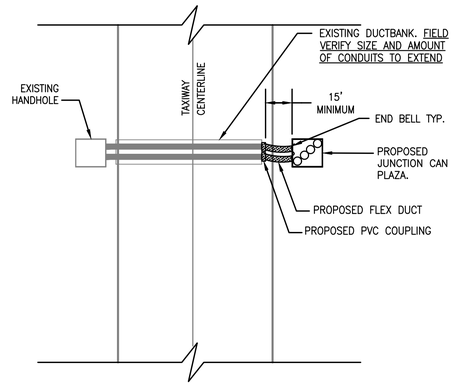
5 CABLE CONNECTOR TOOLS
SCALE: NONE



LIGHT ID TAG **CABLE ID TAG**

NOTE: COORDINATE NUMBERING METHOD WITH OWNER

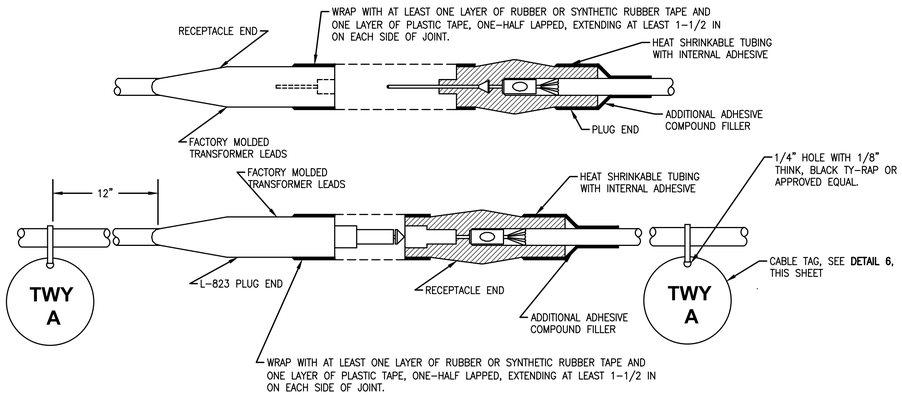
6 LIGHT AND CABLE TAG DETAILS
SCALE: NONE



7 DUCTBANK EXTENSION TO CAN PLAZA DETAIL SCALE: NONE

CONDUIT NOTES

1. THE #6 AWG BSD SOLID COPPER COUNTERPOISE SHALL BE CENTERED ON THE CONDUIT WHEN INSTALLED UNDER FULL STRENGTH PAVEMENT.
2. A PLASTIC, DETECTABLE NON-MAGNETIC 3" (MIN.) WIDE RED TAPE SHALL BE INSTALLED EIGHT INCHES (8") BELOW GRADE ABOVE ALL PORTIONS OF EXISTING UNDERGROUND UTILITIES EXPOSED FOR ANY REASONS. THE DETECTABLE TAPE SHALL BE OMITTED WHERE THE UNDERGROUND UTILITY IS UNDER AIRFIELD PAVEMENT.
3. ALL CONDUITS UNDER PAVEMENT SHALL BE ENCASED IN P-610 CONCRETE WITH NOT LESS THAN 3" OF COVER AT TOP, BOTTOM AND SIDES.
4. TRENCHED AREAS SHALL BE BACKFILLED AND COMPACTED AS SHOWN. NO SEPARATE PAYMENT SHALL BE MADE FOR RESTORING TURF.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE APPROPRIATE UTILITY, AGENCY, ETC. PRIOR TO ANY EXCAVATION/CONSTRUCTION TO LOCATE THE UTILITY'S OR AGENCY'S UNDERGROUND CABLES, PIPE, CONDUITS, DUCT BANKS, ETC. REPLACEMENT OF EXISTING CABLES SHALL BE AT THE NO ADDITIONAL COST TO THE OWNER.
6. GROUND RODS SHALL BE INSTALLED AT NO MORE THAN 500' AND SHALL BE 3/4"x10'. GROUND RODS SHALL BE TESTED TO OBTAIN A NOT-TO-EXCEED 25 OHMS PRIOR TO CONNECTION WITH COUNTERPOISE WIRE AND 5 OHMS AFTER CONNECTION TO THE COUNTERPOISE.
7. BACKFILL UNDER TURF AND PAVED AREAS SHALL BE NATIVE MATERIAL COMPACTED PER P-152.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR AND OBTAIN ANY AND ALL PERMITS REQUIRED FOR DEWATERING.
9. ALL L-824 CABLES SHALL BE IDENTIFIED WITH AN 18 GAUGE STAINLESS STEEL TAG WITH ITS RESPECTIVE CIRCUIT/LOOP NUMBER AT ALL ACCESSIBLE LOCATIONS. ATTACH ID TAG 12" FROM THE L-823 CONNECTORS OR MID LOOP, IF NO CONNECTORS ARE REQUIRED, THE CONDUCTORS SHALL BE IDENTIFIED ON EACH SIDE OF THE LOOP.
10. L-823 CONNECTORS SHALL BE INSTALLED ON ALL CABLES, IN EACH MANHOLE, BASE CAN, OR OTHER ACCESSIBLE LOCATIONS.



8 L-824 SPLICE CONNECTION OR L-823 CIRCUIT CONNECTION DETAIL
SCALE: NONE

PLUG CONNECTOR NOTES

1. CONTRACTOR SHALL PROVIDE CABLE CIRCUIT IDENTIFICATION MARKERS ATTACHED TO BOTH SIDES OF EACH CABLE CONNECTION.
2. CABLE IDENTIFICATION MARKERS SHALL BE ATTACHED WITH TY-RAP IDENTIFICATION CABLE TIES, MANUFACTURED BY THOMAS & BETTS, OR APPROVED EQUIVALENT.
3. THE CABLE SHALL THOROUGHLY BE CLEANED PRIOR TO THE INSTALLATION OF THE L-823 CONNECTOR KIT.
4. INSTALLATION OF THE PIN/RECEPTACLE SHALL BE COMPLETED WITH "CRIMPING" TOOL SUPPLIED OR RECOMMENDED BY THE MANUFACTURER AND DESIGNED FOR THIS SPECIFIC PURPOSE. TWO CRIMPING TOOLS SHALL BE TURNED OVER TO THE AIRPORT UPON COMPLETION OF THE PROJECT.
5. ATTACH EACH CABLE TIE ENOUGH TO HOLD IN PLACE WITHOUT COMPRESSING HOUSING. TRIM OFF EXCESS CABLE TIE.
6. INSTALLATION OF L-823 AND HEAT SHRINKABLE TUBING SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURERS REQUIREMENTS.
7. THE HEAT SHRINK TUBING SHALL BE FACTORY PRESOAKED WITH SEALANT. HEAT SHRINK SHALL BE MANUFACTURED BY 3M, INC., PART NO. MDT-1100-BK48A OR APPROVED EQUAL.
8. CONTRACTOR SHALL USE SHRINKABLE TUBING. DIRECT FLAME HEATING OF TUBING WILL NOT BE ALLOWED. A HEAT GUN APPROVED BY THE MANUFACTURER MUST BE USED.

OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
1509 LADY STREET, SUITE K, COLUMBIA, SC 29201
T : 803-883-0483 | WWW.OHMEGAGROUP.COM
SC COA NO. 4769

DRAWING STATUS - ISSUE FOR BID - NOT FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
THE OHMEGA GROUP LLC NO. 4769

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
4-9-21
No. 25642
MARK A. MORLEY

NO.	DESCRIPTION	DATE	BY

REVISION RECORD

PROJECT NAME: TAXIWAY 'A' REHABILITATION DESIGN FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT (SPA) SPARTANBURG, SOUTH CAROLINA

DRAWING TITLE: AIRFIELD ELECTRICAL TRENCH DETAILS

PROJ. MGR.:	SLG
DESIGN BY:	MAM
DRAWN BY:	BPR
PROJ. DATE:	4-9-2021

DRAWING NUMBER: E13

TOG PROJ. NO.: 00711-02-1220

TOG PLOT DATE: 4/8/2021

FILEPATH: Projects\2020 Projects\00711-02-1220 Taxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA)\Design\Elec\ SPA(L) E13 - Airfield Electrical Trench Details.dwg, BY:MAM, 4/8/2021 11:10:58 AM

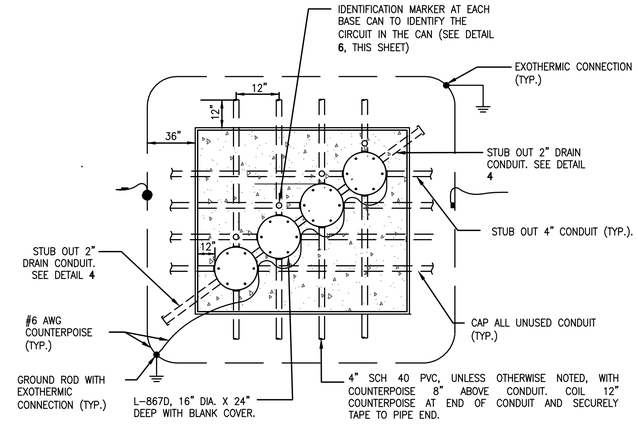
COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION/USE OF THE CONTENTS OF THIS DOCUMENT, ADDITIONS OR ALTERATIONS BY ANY METHOD, ELECTRONIC OR PRINTED, FOR ANY PURPOSE WITHOUT THE EXPRESSED WRITTEN CONSENT OF WK DICKSON & CO., INC. IS PROHIBITED AND ANY USE FOR ANY PURPOSE OTHER THAN FOR THE SPECIFIC PROJECT AND SITE FOR WHICH IT WAS PREPARED IS PROHIBITED AND SHALL BE CONSIDERED TO BE VOID. FAX COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VOID. FAX COPIES

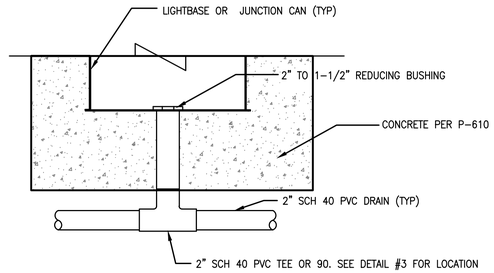
FILENAME Projects\2020 Projects\20-111-00 Taxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA) Design Files\E Civil\Junction Can Plaza Details.dwg, JENKINS, 4/8/2021 11:02:06 AM

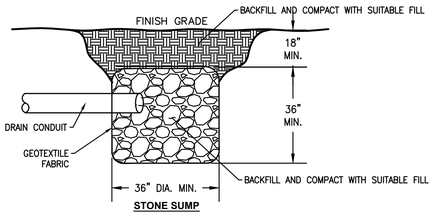
1 NOT USED
SCALE: NONE

2 NOT USED
SCALE: NONE

3 JUNCTION CAN PLAZA - 4 WAY
SCALE: NONE

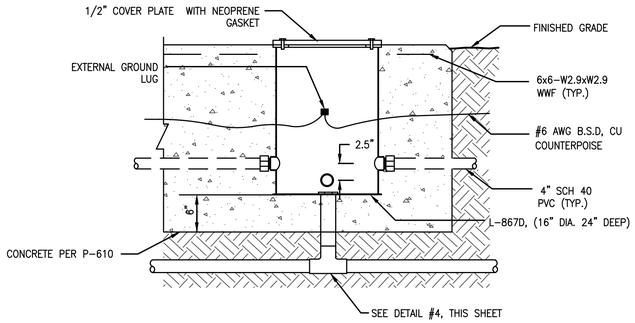






NOTES
1. SLOPE DRAIN CONDUITS 1/8" PER FOOT MINIMUM TOWARD DRAINAGE STRUCTURES.
2. PENETRATE INLET/MANHOLE WITH DRAIN CONDUIT ABOVE STORM SEWER PIPES WHERE POSSIBLE WHILE MAINTAINING SLOPE REQUIREMENT.
3. SEAL ENTRY AROUND DRAIN CONDUIT AT THE INLET/MANHOLE WITH COMPATIBLE NONSHRINK GROUT.
4. WHERE A SUITABLE DRAINAGE STRUCTURE IS NOT WITHIN 30FT, CONSTRUCT A STONE SUMP AS ILLUSTRATED ABOVE.

4 TYPICAL JCP DRAIN
SCALE: NONE

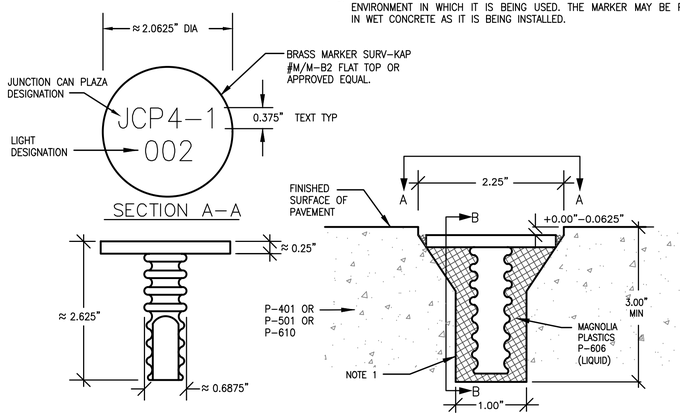


NOTES
1. NUMBER OF JUNCTION CANS AND CONDUIT CONFIGURATIONS VARY. SEE LAYOUT PLAN SHEETS FOR ORIENTATION.
2. CONDUITS WHICH ARE NOT USED IN THE PROJECT SHALL BE CAPPED 12" OUTSIDE OF PLAZA CONCRETE.
3. ORIENT PLAZA AS SHOWN ON LAYOUT PLAN SHEETS.
4. CONTRACTOR SHALL PROVIDE A 2" DIA DOMED BRONZE MARKER AT EACH JUNCTION CAN AS SHOWN. MARKER SHALL BE STAMPED WITH CIRCUIT IDENTIFICATION AS SHOWN ON LAYOUT PLAN SHEETS.
5. INSTALL GROUND RODS AND GROUND LOOP AT ALL JUNCTION CAN PLAZAS AS SHOWN. TWO GROUND RODS PER PLAZA LOCATED AT OPPOSITE CORNERS SHALL BE PROVIDED. COUNTERPOISE SHALL BE LOCATED NOMINALLY 12" BELOW EXISTING GRADE.
6. CONTRACTOR SHALL LABEL 2 ENDS OF EACH JUNCTION CAN PLAZA (JCP) BY IMPRESSING THE JCP IDENTIFICATION NUMBER INTO THE CONCRETE FOUNDATION DURING PLACEMENT. LETTERS AND NUMBERS SHALL BE 4" IN HEIGHT, PROPORTIONAL IN WIDTH, AND HAVE A STROKE WIDTH OF 1/2" AND 1/4" DEPTH.
7. SEE LAYOUT PLAN SHEETS FOR JCP IDENTIFICATION NUMBERS.
8. DRAIN CONDUITS SHALL BE PROVIDED AS SHOWN IN DETAIL 4.

5 TYPICAL JCP BASE CAN SECTION
SCALE: NONE

I.D. MARKER NOTES

1. CLEAN HOLE WITH WIRE BRUSH AND DRY COMPRESSED AIR IMMEDIATELY PRIOR TO PLACING THE P-606. THE P-606 FILL TUBE SHALL BE KEPT WITHIN 1/8" OF THE BOTTOM OF THE DRILLED HOLE DURING FILLING TO PREVENT AIR ENTRAPMENT. INSTALL MARKER AND ROTATE 1/4 TURN. VOLUME OF P-606 USED SHALL BE SUFFICIENT TO ALLOW A SMALL AMOUNT TO SQUEEZE OUT EVENLY AROUND THE PERIMETER OF THE MARKER TOP. ANY OVER OR UNDER POURS SHALL BE CORRECTED IMMEDIATELY.
2. INSTALLATION OF ID MARKERS AND STAMPING OF ID'S ARE INCIDENTAL TO FIXTURE, DUCT, HANDHOLE/MANHOLE, CABLE, ETC., PAY ITEMS.
3. THE P-606 SHALL BE COMPATIBLE WITH THE TYPE OF PAVEMENT AND ENVIRONMENT IN WHICH IT IS BEING USED. THE MARKER MAY BE PLACED IN WET CONCRETE AS IT IS BEING INSTALLED.



6 ID MARKER DETAIL FOR CAN PLAZA
SCALE: NONE

WK DICKSON
community infrastructure consultants
1320 MAIN STREET
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA — THE OHMEGA GROUP LLC NO. 4769 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
4-9-21
No. 25642
Mark A Morley
MARK A. MORLEY

NO.	DESCRIPTION	DATE	BY

REVISION RECORD

DRAWING STATUS - ISSUE FOR BID - NOT FOR CONSTRUCTION

PROJECT NAME: TAXIWAY 'A' REHABILITATION DESIGN FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT (SPA) SPARTANBURG, SOUTH CAROLINA

DRAWING TITLE: AIRFIELD ELECTRICAL CAN PLAZA DETAILS

OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
1509 LADY STREET, SUITE K, COLUMBIA, SC 29201
T : 803-883-0483 | WWW.OHMEGAGROUP.COM
SC COA NO. 4769

PROJ. MGR.:	SLG
DESIGN BY:	MAM
DRAWN BY:	BPR
PROJ. DATE:	4-9-2021

DRAWING NUMBER:
E14
TOG PROJ. NO.:
00711-02-1220

TOG PLOT DATE: 4/8/2021

COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION/USE OF THE CONTENT OF THIS DOCUMENT, ADDITIONS OR MODIFICATIONS TO THE CONTENT OF THIS DOCUMENT BY ANY METHOD OR MEDIUM IS PROHIBITED WITHOUT THE EXPRESS WRITTEN PERMISSION OF WK DICKSON & CO., INC. ANY COPIES MADE FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID, TRUE COPIES

WK DICKSON
community infrastructure consultants
1320 MAIN STREET
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA — THE OHMEGA GROUP LLC NO. 4769 — CERTIFICATE OF AUTHORIZATION

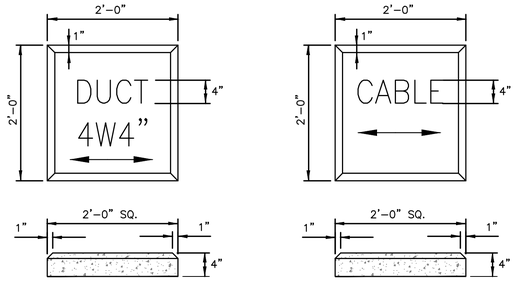
SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER — 4-9-21 — No. 25642 — MARK A. MORLEY

1 NOT USED

SCALE: NONE

2 DUCT/CABLE MARKER DETAIL

SCALE: NONE

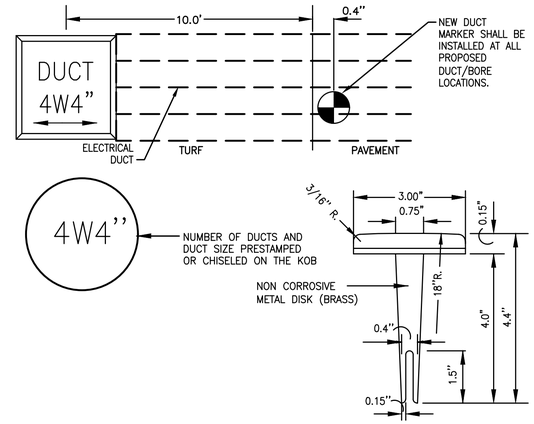


NOTES:

1. LETTERS SHALL BE 4" HIGH, 3" WIDE W/STROKE 1/2" WIDE AND 1/4" DEEP.
2. DUCT/CABLE MARKERS TO BE INSTALLED DIRECTLY ABOVE DUCT OR CONDUIT..
3. DUCT/CABLE MARKERS SHALL BE PLACED AT CHANGES OF DIRECTION AND APPROXIMATELY EVERY 200' ALONG DUCT RUNS.
4. LETTERS TO BE IMPRESSED NOT SCRATCHED INTO CONCRETE.
5. COST OF CONCRETE DUCT/CABLE MARKERS IS INCIDENTAL TO THE ASSOCIATED BID ITEMS.

3 DUCT MARKER INSTALLATION AT PAVEMENT EDGE

SCALE: NOT TO SCALE



NOTES:

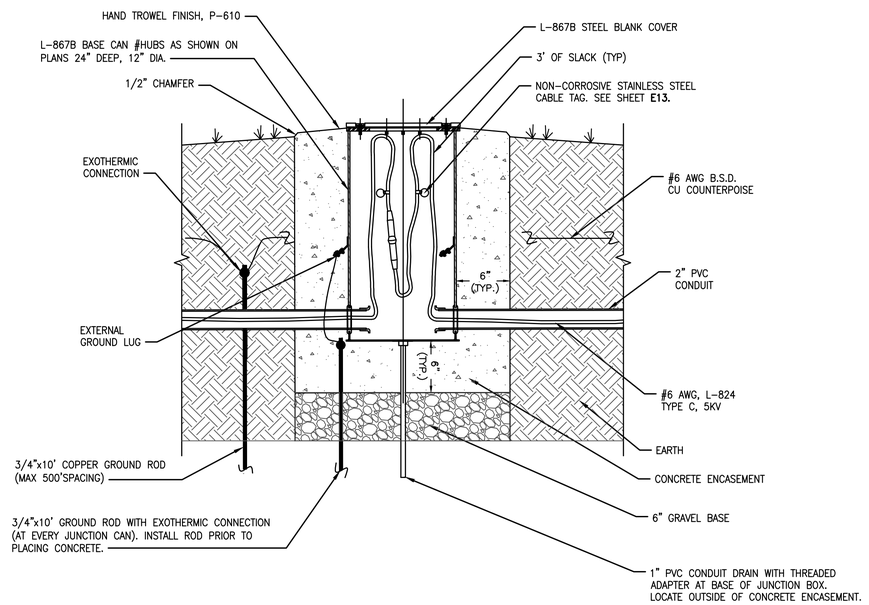
1. DUCT MARKER SHALL BE DRILLED AND GROUTED FLUSH WITH THE SURFACE OF THE PAVEMENTS.
2. COST OF DUCT MARKERS IS INCIDENTAL TO THE ASSOCIATED BID ITEMS.

4 NOT USED

SCALE: NONE

5 JUNCTION CAN DETAIL

SCALE: NONE



JUNCTION CAN NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR AND OBTAIN ANY AND ALL PERMITS REQUIRED FOR DEWATERING.
2. ALL BASE CAN INSTALLATION TECHNIQUES, METHODS, MATERIALS, ETC., SHALL BE SUBMITTED TO THE RESIDENT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK.
3. THE BASE CAN COVER MOUNTING BOLTS SHALL EXTEND THROUGH THE BASE CAN MOUNTING FLANGE INTO THE BASE CAN A MIN. OF 0.5". THE BOLTS SHALL HAVE ENOUGH THREAD LENGTH SO THEY DO NOT SHOULDER OUT BEFORE THE COVER IS SECURELY TIGHTENED. ANTI–SEIZE SHALL BE USED ON BOLTS (NOALOX OR APPROVED EQUAL).
4. P–610 CONCRETE AROUND BASE CANS AND DUCT/CONDUIT SHALL BE COMPLETELY CONSOLIDATED BY MECHANICAL MEANS AND SHALL BE FREE OF ANY VOIDS.
5. IMMEDIATELY AFTER THE HOLES ARE AUGURED, THE BASE CANS SHALL BE INSTALLED AND THE P–610 PLACED SO AS TO PREVENT WATER FROM ENTERING THE HOLE.
6. ALL L–824 CABLES SHALL BE IDENTIFIED WITH AN 18 GAUGE STAINLESS STEEL TAG WITH ITS RESPECTIVE CIRCUIT/LOOP NUMBER AT ALL ACCESSIBLE LOCATIONS. ATTACH ID TAG 12" FROM THE L–823 CONNECTORS OR MID LOOP. IF NO CONNECTORS ARE REQUIRED, THE CONDUCTORS SHALL BE IDENTIFIED ON EACH SIDE OF THE LOOP.
7. L–823 CONNECTORS SHALL BE INSTALLED ON ALL CABLES, IN EACH MANHOLE, BASE CAN, OR OTHER ACCESSIBLE LOCATIONS.

OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
1509 LADY STREET, SUITE K, COLUMBIA, SC 29201
T : 803-883-0483 | WWW.OHMEGAGROUP.COM
SC COA NO. 4769

DRAWING STATUS - ISSUE FOR BID - NOT FOR CONSTRUCTION

REVISION RECORD

NO.	DESCRIPTION	BY	DATE

PROJECT NAME: TAXIWAY 'A' REHABILITATION DESIGN FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT (SPA) SPARTANBURG, SOUTH CAROLINA

DRAWING TITLE: AIRFIELD ELECTRICAL JUNCTION CAN AND MARKER DETAILS

PROJ. MGR.:	SLG
DESIGN BY:	MAM
DRAWN BY:	BPR
PROJ. DATE:	4-9-2021

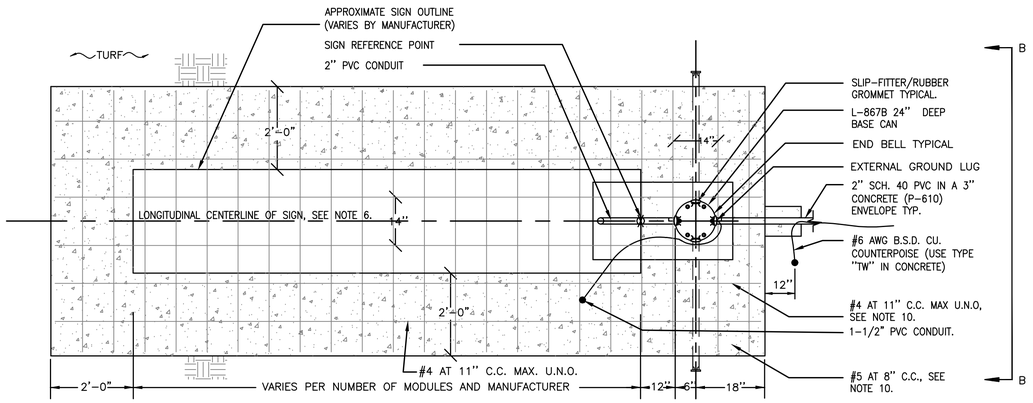
DRAWING NUMBER: E15

TOG PROJ. NO.: 00711-02-1220

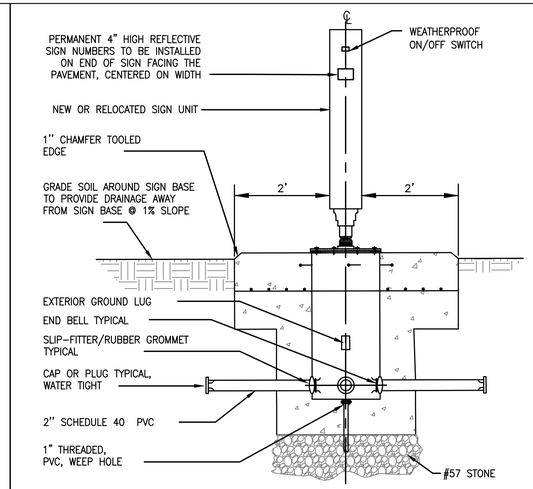
TOG PLOT DATE: 4/8/2021

FILE PATH: P:\spa-dwntwn\2020 Projects\2011-02-1220 Taxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA)\Drgs\Excel & PDFs - E15 - Airfield Electrical Junction Can and Marker Details.dwg, BRYSON, 4/8/2021 11:19:55 AM

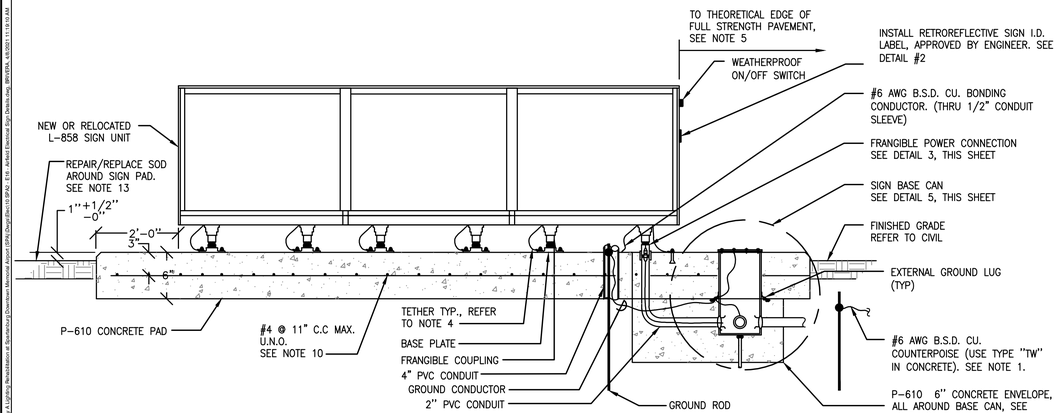
COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION/USE OF THIS CONTENT OF THIS DOCUMENT, ADDITIONS OR DELETIONS TO THE CONTENT BY ANY METHOD WITHOUT THE EXPRESS WRITTEN CONSENT OF WK DICKSON & CO., INC. IS STRICTLY PROHIBITED. ANY USE OF THIS DOCUMENT FOR ANY PURPOSE OTHER THAN FOR THE SPECIFIC PROJECT AND SITE FOR WHICH IT WAS PREPARED IS PROHIBITED. COPIES OF THIS DOCUMENT SHALL NOT BE USED FOR ANY OTHER PROJECT OR SITE. ANY COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. FALSE COPIES



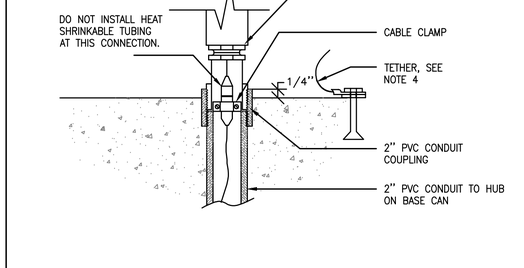
1 SIGN DETAIL - PLAN VIEW
SCALE: NOT TO SCALE



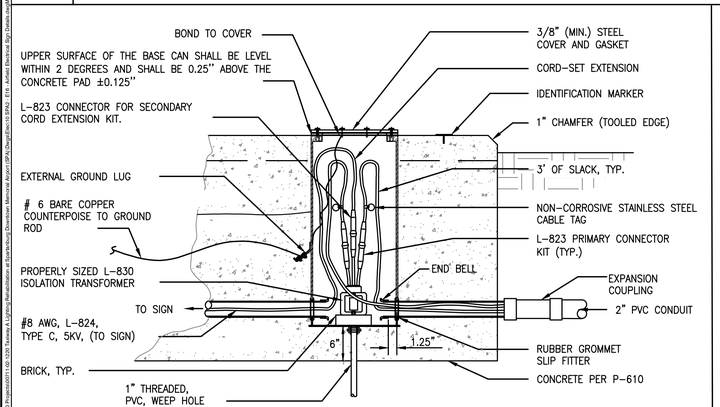
2 B - B SIDE VIEW
SCALE: NOT TO SCALE



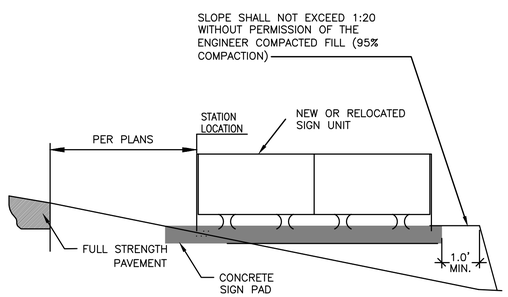
3 SIGN DETAIL
SCALE: 3/4" – 1'-0"



4 FRANGIBLE POWER CONNECTION DETAIL
SCALE: NOT TO SCALE



5 SIGN BASE CAN
SCALE: NOT TO SCALE



6 GRADING AND FILL DETAIL
SCALE: NOT TO SCALE

NOTES:

1. CONNECT COUNTERPOISE TO GROUND ROD LOCATED OUTSIDE SIGN FOUNDATION. DO NOT CONNECT COUNTERPOISE TO BASE CAN.
2. THE DETAILS SHOWN IN THE PLANS PROVIDE THE MINIMUM REQUIREMENTS FOR SIGN INSTALLATIONS. THE CONTRACTOR SHALL USE STANDARDS APPLICABLE FOR THE PARTICULAR SIGN MANUFACTURER. THE BOLTING PATTERN, METHOD OF ANCHORING, ETC., SHALL BE PER SIGN MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE ENGINEER.
3. THE SIGN SHALL WITHSTAND 200 MPH WIND LOAD PER AC 150/5345-44H WITHOUT DAMAGE. THE SIGN SHALL NOT BREAK AT THE FRANGIBLE POINTS NOR SUFFER PERMANENT DISTORTION. THE SIGN MANUFACTURER SHALL SUBMIT TO THE ENGINEER MOUNTING METHODS, AND THE CALCULATIONS OR TEST RESULTS SUPPORTING THE ABOVE REQUIREMENT. THE SIGNS SHALL BE FRANGIBLE, MEETING THE REQUIREMENTS OF AC 150/5345-44H.
4. ALL SIGNS SHALL BE FURNISHED WITH TETHERS. TETHERS SHALL BE 3/16" STAINLESS STEEL AIRCRAFT CABLE WITH A FORMED EYE ON BOTH ENDS. THE TETHER EYE SHALL BE ATTACHED TO THE SIGN AND BASE BY BEING SANDWICHED BETWEEN TWO STAINLESS STEEL FENDER WASHERS, WITH A 1/2" MINIMUM STAINLESS STEEL BOLT. THE TETHER SHALL BE OF SUFFICIENT LENGTH TO HAVE A MINIMUM OF 6" OF SLACK WHEN ATTACHED BETWEEN THE SIGN AND THE SIGN BASE. THE TETHERS AND BONDING CONDUCTORS SHALL BE OF SUFFICIENT LENGTH TO ALLOW THE FRANGIBLE COUPLINGS TO OPERATE WITHOUT RESTRICTIONS AND TO ALLOW THE POWER CABLE TO DISCONNECT IF THE SIGN FALLS OVER. PROVIDE 6" +- 1/2" SLACK IN TETHER AND ALL TETHERS SHALL BE SAME LENGTH.
5. FOR LOCATION AND ORIENTATION OF SIGNS AND FOUNDATIONS, SEE PLANS. THE LOCATION SHOWN ON THE PLANS IS THE PERPENDICULAR DISTANCE FROM THE DEFINED TAXIWAY/RUNWAY EDGE OF FULL STRENGTH PAVEMENT, TO THE NEAR SIDE OF THE SIGN ON THE SIGN'S LONGITUDINAL CENTERLINE (SEE PLAN VIEW).
6. ALL SIGNS SHALL BE ORIENTED SUCH THAT THE LONGITUDINAL CENTERLINE OF THE SIGN IS PERPENDICULAR TO THE RESPECTIVE TAXIWAY/RUNWAY CENTERLINE, UNLESS NOTED OTHERWISE.
7. ALL TAXIWAY GUIDANCE SIGNS SHALL BE LOCATED **25'** MINIMUM OFF THE EDGE OF FULL STRENGTH PAVEMENT, ALIGNED WITH THE POINT OF TANGENCY (PT), POINT OF CURVATURE (PC) OR AS SHOWN ON THE PLANS.
8. THE ACTUAL SIGN DIMENSIONS WILL VARY. THE BASE SIZE AS SHOWN SHALL BE ADJUSTED TO MATCH THE SIGN.
9. THE CONCRETE SHALL COMPLY WITH P-610 SPECIFICATION.
10. P-610 CONCRETE STEEL REINFORCEMENT SHALL BE TYPE ASTM A615 GRADE 60. ALL REINFORCEMENT SHALL HAVE A 3" MINIMUM CONCRETE COVER. REINFORCEMENTS MAY BE ADJUSTED TO MISS INTERFERENCES.
11. INSTALL SIGN UNIT LEVEL. USE STRUCTURAL BACKFILL AS REQUIRED. STRUCTURAL BACKFILL, FREE-DRAINING, AS APPROVED BY THE ENGINEER, SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED 4" IN LOOSE DEPTH, AND COMPACTED TO 95% MAXIMUM DENSITY AT ZERO TO 2% ABOVE OPTIMUM MOISTURE AS DETERMINED BY ASTM D698.
12. ALL AREAS FOR THE LEG FLANGE PLATES SHALL BE IN THE SAME PLANE. THE ANCHOR BOLTS SHALL BE A-36 STEEL, HOT DIP GALVANIZED WHEN CAST INTEGRALLY WITH THE CONCRETE PAD OR STAINLESS STEEL EXPANSION ANCHORS.
13. SODDING OF DISTURBED AREAS SHALL BE INCIDENTAL TO THE SIGN INSTALLATION.
14. EACH ABANDONED CONDUIT AND DUCT SHALL BE WATERPROOF SEALED.
15. GROUND RODS SHALL BE 3/4 INCH DIAMETER, 10 FEET LONG, COPPER CLAD STEEL SECTIONAL RODS. EACH GROUND ROD SHALL BE INDIVIDUALLY TESTED PRIOR TO CONNECTION TO THE GROUND GRID OR COUNTERPOISE. EACH INDIVIDUAL ROD SHALL HAVE AN EARTH RESISTANCE OF 25 OHMS OR LESS. ADDITIONAL SECTIONS SHALL BE ADDED TO THE ROD TO ACHIEVE THE 25 OHM REQUIREMENT.
16. THE BONDING CONDUCTOR AND SIGN TETHER SHALL NOT BE ATTACHED AT THE SAME ANCHOR BOLT. AN APPROVED MECHANICAL OR COMPRESSION LUG SHALL BE USED TO CONNECT THE BONDING CONDUCTOR TO THE SIGN FLANGE AND SIGN.

OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
1509 LADY STREET, SUITE K, COLUMBIA, SC 29201
T : 803-883-0483 | WWW.OHMEGAGROUP.COM
SC COA NO. 4769

DRAWING STATUS - ISSUE FOR BID - NOT FOR CONSTRUCTION

WK DICKSON
community infrastructure consultants
1320 MAIN STREET
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA — THE OHMEGA GROUP LLC NO. 4769 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
4-9-21
No. 25642
MARK A. MORLEY

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
TAXIWAY 'A' REHABILITATION DESIGN FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT (SPA) SPARTANBURG, SOUTH CAROLINA

DRAWING TITLE:
AIRFIELD ELECTRICAL SIGN DETAILS

PROJ. MGR.:	SLG
DESIGN BY:	MAM
DRAWN BY:	BPR
PROJ. DATE:	4-9-2021

DRAWING NUMBER:
E16

TOG PROJ. NO.:
00711-02-1220

TOG PLOT DATE: 4/8/2021

RELATIVE Projects\2020 Projects\20111.06_SPA Taxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA)\Drawings\Electrical\E16 - Airfield Electrical Sign Details.dwg, BRYAN, 4/8/2021 11:16:10 AM

COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION/USE OF THE CONTENT OF THIS DOCUMENT, ADDITIONS OR MODIFICATIONS TO THE CONTENT OF THIS DOCUMENT BY ANY METHOD OR MEDIUM WITHOUT THE EXPRESS WRITTEN PERMISSION OF WK DICKSON & CO., INC. IS PROHIBITED. ANY COPY OF THIS DOCUMENT NOT BEARING THE ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VOID. THIS COPY IS FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL.

SIGNAGE SCHEDULE (SEE NOTES)

SIGN NO.	LEGEND - SIDE 1				LEGEND - SIDE 2				SIZE	STYLE	MODE	CLASS	REMARKS	CIRCUIT
	1	2	3	4	1	2	3	4						
S-11	A5	←A	→		23	- 5	A5		2	2	2	2	NEW PANELS EXISTING SIGN	"TAXIWAY A"
	L	Y	Y		R	R	L							
S-12	A6	←A			23	A6			2	2	2	2	NEW PANELS ON EXISTING SIGN	"TAXIWAY A"
	L	Y			R	L								
S-20	C	↖B	↘		C				2	2	2	2	NEW SIGN	"TAXIWAY A"
	L	Y	Y		L									
S-21	B	←C	→		B				2	2	2	2	NEW SIGN	"TAXIWAY B"
	L	Y	Y		L									
S-22	C	↙A	↗		C				2	2	2	2	NEW SIGN	"TAXIWAY A"
	L	Y	Y		L									
S-23	←B	A			A				2	2	2	2	NEW SIGN	"TAXIWAY B"
	Y	L			L									
S-24	↖B	C			C				2	2	2	2	NEW SIGN	"TAXIWAY B"
	Y	L			L									
S-25	B	←A	→		B				2	2	2	2	NEW SIGN	"TAXIWAY B"
	L	Y	Y		L									
S-26	A	C↘			A				2	2	2	2	NEW SIGN	"TAXIWAY A"
	L	Y			L									
S-27	A	B→			A				2	2	2	2	NEW SIGN	"TAXIWAY A"
	L	Y			L									
S-28	←A	→							2	2	2	2	NEW SIGN	"TAXIWAY A"
	Y	Y												
S-29	A4	23	- 5				A4		2	2	2	2	NEW SIGN	"TAXIWAY A"
	L	R	R		Y	Y	L							
S-30	A	A4	→		A				2	2	2	2	NEW SIGN	"TAXIWAY A"
	L	Y	Y		L									

TYPE DESIGNATIONS
L = L-858L LOCATION SIGN (BLACK BACKGROUND, YELLOW LETTERS AND BORDERS)
Y = L-858Y DIRECTION OR BOUNDARY SIGN (YELLOW BACKGROUND, BLACK LETTERS)
R = L-858R MANDATORY INSTRUCTION SIGN (RED BACKGROUND, WHITE LETTERS)
B = L-858B RUNWAY DISTANCE REMAINING SIGN (BLACK BACKGROUND, WHITE LETTERS)
C = L-858C TAXIWAY END MARKER SIGN (BLACK BACKGROUND, YELLOW STRIPES)
BLANK = SIGN PANEL WITHOUT INSCRIPTION – BLANK PANEL ☒

SIZES OF SIGNS		SIGN TYPES
SIZE 1	18 INCH LEGEND PANEL WITH 12 INCH LEGEND	L/R/Y
SIZE 2	24 INCH LEGEND PANEL WITH 15 INCH LEGEND	L/R/Y
SIZE 3	30 INCH LEGEND PANEL WITH 18 INCH LEGEND	L/R/Y
SIZE 4	48 INCH LEGEND PANEL WITH 40 INCH LEGEND	B
SIZE 5	30 INCH LEGEND PANEL WITH 25 INCH LEGEND	B

STYLES OF SIGNS		SIGN TYPES
STYLE 1	POWERED FROM 120VAC POWER SOURCE	ALL
STYLE 2	POWERED FROM SERIES LIGHTING CIRCUIT (4.8A TO 6.6A)	ALL
STYLE 3	POWERED FROM SERIES LIGHTING CIRCUIT (2.8A TO 6.6A OR 8.5A TO 20A)	ALL
STYLE 4	UNLIGHTED SIGNS	C/L/R/Y
STYLE 5	POWERED FROM A SERIES LIGHTING CIRCUIT OF 5.5A	ALL

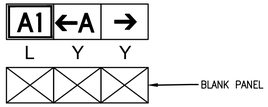
MODES OF SIGNS	
MODE 1	WITHSTAND WIND LOADS OF 100 MPH (UNLIGHTED STYLE 4 SIGN ONLY)
MODE 2	WITHSTAND WIND LOADS OF 200 MPH
MODE 3	WITHSTAND WIND LOADS OF 300 MPH

CLASSES OF SIGNS			
CLASS 1	OPERATING ENVIRONMENT OF –4°F TO 131°F	CLASS 2	OPERATING ENVIRONMENT OF –40°F TO 131°F

LEGEND:

SIDE 2 / SIDE 1 → END TOWARD T/W OR R/W

SIGNAGE LEGEND



NOTES

1. EXISTING TAXIWAY SIGNS ARE SIZE 2, CLASS 2, MODE 2, STYLE 2 AND MANUFACTURED BY ADB.
2. NOT ALL SIGNS ARE GIVEN. MODIFIED SIGNS ONLY ARE PROVIDED ON SCHEDULE.

WK DICKSON
community infrastructure consultants
1320 MAIN STREET
COLUMBIA, SC 29201
(t)803-786-4261
(f)803-786-4263
WWW.WKDICKSON.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
THE OHMEGA GROUP LLC
NO. 4769

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
4-9-21
No. 25642
MARK A. MORLEY

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

DRAWING STATUS - ISSUE FOR BID - NOT FOR CONSTRUCTION

PROJECT NAME:
TAXIWAY 'A' REHABILITATION DESIGN FOR THE SPARTANBURG DOWNTOWN MEMORIAL AIRPORT (SPA) SPARTANBURG, SOUTH CAROLINA

DRAWING TITLE:
AIRFIELD ELECTRICAL SIGN SCHEDULE

PROJ. MGR.:	SLG
DESIGN BY:	MAM
DRAWN BY:	BPR
PROJ. DATE:	4-9-2021

DRAWING NUMBER:
E17
TOG PROJ. NO.:
00711-02-1220

OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
1509 LADY STREET, SUITE K, COLUMBIA, SC 29201
T : 803-883-0483 | WWW.OHMEGAGROUP.COM
SC COA NO. 4769

TOG PLOT DATE: 4/8/2021

FILE PATH: M:\Projects\2020 Projects\00711-02-1220 Traxiway A Lighting Rehabilitation at Spartanburg Downtown Memorial Airport (SPA)\Dwg\Elec\11 SPA2 - E17 - Airfield Electrical Sign Schedule.dwg, BRIVERA, 4/8/2021 11:19:10 AM