

BIDDING AND CONTRACT DOCUMENTS
ADDENDUM NUMBER ONE
STATE PROJECT NO. 19-045B-2

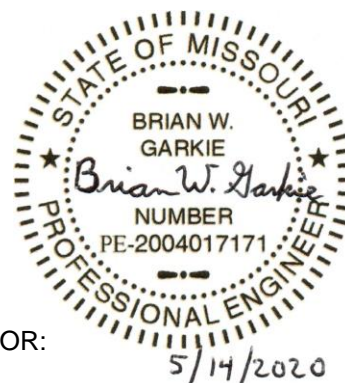
DATE: MAY 15, 2020

CAMDENTON MEMORIAL-LAKE REGIONAL AIRPORT

CRAWFORD, MURPHY, TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MISSOURI 63102

TO: ALL PLANHOLDERS AND POTENTIAL BIDDERS

SUBJECT: ADDENDUM NUMBER ONE TO THE BIDDING DOCUMENTS FOR:
OVERLAY AND EXTEND RUNWAY 15-33



This addendum forms a part of the bidding and contract documents, and modifies the original bidding documents dated April 17, 2020. This addendum must be signed on the last page and included with the submitted Bid Package. An acknowledgement sheet is also attached. This must be signed and returned to Crawford, Murphy, & Tilly, Inc via e-mail by May 20, 2020. FAILURE TO NOT RECOGNIZE THE ADDENDUM ON THE BID FORM MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

The Contract Documents are revised as follows:

CONTRACT PROPOSAL

Page 34

REPLACE Section 70-06 with the following:

70-06 SANITARY, HEALTH, AND SAFETY PROVISIONS. The Contractor shall provide and maintain in a neat, sanitary condition such accommodations for the use of his/her employees as may be necessary to comply with the requirements of the state and local Board of Health, or of other bodies or tribunals having jurisdiction.

Attention is directed to Federal, state, and local laws, rules and regulations concerning construction safety and health standards. The Contractor shall not require any worker to work in surroundings or under conditions that are unsanitary, hazardous, or dangerous to his/her health or safety.

The contractor shall be aware of all COVID-19 guidance from the Center for Disease Control (CDC) and other government health mandates and conduct all operations in conformance with these safety directives. The guidance may change during the project construction and the contractor shall change and adapt their operation and safety protocols accordingly.

The contractor shall include these procedures in the project safety plan as called for in the contract documents and revise the safety plan as needed.

The contractor shall be aware of the Missouri Standard Specifications for Highway Construction Section 107.1 "Laws to be Observed".

Page 46

ADD to the end of section 80-07.1 the following:

If the Contractor finds it impossible for reasons beyond their own control to complete the work within the contract time as specified, or as extended in accordance with the provisions of this

paragraph, the Contractor may, at any time prior to the expiration of the contract time as extended, make a written request to the Owner for an extension of time setting forth the reasons which the Contractor believes will justify the granting of their own request. Requests for extension of time, caused by inclement weather, shall be supported with National Weather Bureau data showing the actual amount of inclement weather exceeded what could normally be expected during the contract period. The Contractor's plea that insufficient time was specified is not a valid reason for extension of time. If the supporting documentation justify the work was delayed because of conditions beyond the control and without the fault of the Contractor, the Owner may extend the time for completion by a change order that adjusts the contract time. The extended time for completion shall then be in full force and effect, the same as though it were the original time for completion.

Page 82

REPLACE the contact information in Item 3.c. with the following:

Missy Stuedle
External Civil Rights Director
P. O. Box 270
Jefferson City, Missouri 65102
Telephone: (573) 526-2978
Fax: (573) 526-0558
E-Mail: missy.stuedle@modot.mo.gov

Page 139

REPLACE section 101-3.2 with the following:

101-3.2 Preparation of joints and cracks prior to overlay/surface treatment. Remove all vegetation and debris from cracks to a minimum depth of 1 inch. If extensive vegetation exists, treat the specific area with a concentrated solution of a water-based herbicide approved by the RPR. Fill all cracks marked out by the RPR greater than 1/4 inch wide and less than or equal to 1-1/2 inch wide with a crack sealant per ASTM D6690. The crack sealant, preparation, and application shall be compatible with the overlay to be used. To minimize contamination of the asphalt with the crack sealant, underfill the crack sealant a minimum of 1/8 inch, not to exceed 1/4 inch. Any excess joint or crack sealer shall be removed from the pavement surface. Cracks greater than 1-1/2 inch wide shall be covered under Item SP-1 Transverse Crack Repair.

Page 140

ADD the following section after section 101-3.6:

101-3.7 Preparation of Cracks in Flexible Pavement prior to sealing. Prior to application of sealant material, clean and dry the joints of all scale, dirt, dust, old sealant, curing compound, moisture and other foreign matter. The Contractor shall demonstrate, in the presence of the RPR, that the method used cleans the cracks and does not damage the pavement.

Page 140

ADD the following section after section 101-4.1:

101-4.2 Crack sealing. The unit of measurement for crack sealing shall be the linear foot of crack.

Page 140

ADD the following to section 101-5.1:

Item P-101-5.2 Asphalt Crack Preparation & Seal - per linear foot

Page 145

REVISE the seventh and eighth paragraphs of Section 152-2.8 to read as follows:

The **Contractor** will take samples of excavated materials which will be used in embankment for testing and develop a Moisture-Density Relations of Soils Report (Proctor) in accordance with ASTM D698. A new Proctor shall be developed for each soil type based on visual classification.

Density tests will be taken by the Contractor for every **3,000 square yards** of compacted embankment, or once per lift for lifts smaller than 3,000 square yards, for each lift which is required to be compacted, or other appropriate frequencies as determined by the RPR.

Page 148

REPLACE Section 152-3.1 with the following:

152-3.1 Contract Quantity Payment. The quantity of Embankment in Place for which payment will be made is that shown in the contract for the embankment in place pay item, provided the project is constructed essentially to the lines and grades shown on the plans. At the time of design, the existing ground elevations were under construction by a separate contract. The Engineer will compare the completed ground elevations from the previous contract with the existing ground elevations shown in this contract. If deviations are found, the existing ground for this contract will be updated and a new contract quantity calculated. The Contractor shall make his or her own check of existing ground elevations prior to commencement of earthwork activities. Upon completion of the earthwork activities, the Contractor shall survey the finished work for deviations in the grade, width or slope from the authorized grade or typical section and provide the survey data to the RPR. Embankment in Place will be measured by the volume between the original ground prior to stripping or topsoil removal and the final embankment shown in the plans as calculated by the average end areas of design cross sections. No adjustments will be made to the Embankment in Place contract quantity due to stripping or topsoil removal.

Contract quantities will be used for final payment of Embankment in Place except when:

- a. Errors are found in original computations.
- b. An original cross section is found to have an average deviation from the true elevation in excess of one foot.
- c. An authorized change in grade, slope, or typical section is made.
- d. Unauthorized deviations decrease the quantities on the plans.

152-3.1.1 If the plans have been altered or when a disagreement exists between the contractor and the RPR as to the accuracy of the plan quantities of any balance, or the entire project, either party has the right to request a re-computation of contract quantities of excavation within any area by written notice to the other party. The written notice shall contain evidence that an error exists in the original groundline elevation or in the original computations which will materially affect the final payment quantity. If such final measurement is required, it will be made from the latest available ground surface and the design section.

Page 148

REVISE the last sentence in section 152-4.3 as follows:

Payment will be made under:

Item P-152-4.1 Embankment in place - per cubic yard

Page 159

REVISE the second paragraph of 208-3.5 to read as follows. This is being updated to clarify that the Contractor is responsible for the Proctor.

The field density of each compacted lift of material shall be at least **100%** of the maximum density of laboratory specimens prepared from samples taken by the Contractor of the subbase material delivered to the jobsite. The laboratory specimens shall be compacted and tested by the Contractor in accordance with **ASTM D698**. The moisture content of the material during placing operations shall be within ± 2 percentage points of the optimum moisture content as determined by **ASTM D698**. Maximum density refers to maximum dry density at optimum moisture content unless otherwise specified.

Page 168

ADD in the first sentence of section 403-3.5 after the word production the words "of each JMF". The control strip shall be used for each mix design.

Pages 306-314

REPLACE page 306-314 with 306A-314A.

PLANS**Sheet 2 of 74**

REPLACE Sheet 2 of 74 with REVISION 1.

Sheet 5 of 74

REPLACE Sheet 5 of 74 with REVISION 1.

Sheet 16 of 74

REPLACE Sheet 16 of 74 with REVISION 1.

Sheet 25 of 74

REPLACE Sheet 25 of 74 with REVISION 1.

Sheet 30 of 74

REPLACE Sheet 30 of 74 with REVISION 1.

Sheet 31 of 74

REPLACE Sheet 31 of 74 with REVISION 1.

Sheet 68 of 74

REPLACE Sheet 68 of 74 with REVISION 1.

CLARIFICATION:

Language on allowable justification for extension of contract time was inadvertently removed from standard language and is being added back in.

Specification language for the crack sealing has been added.

The grading plan has been updated to allow for a graded pad to install the Runway 33 PAPI on.

Payment for excavation and embankment covered under Item P-152 is being switched from unclassified excavation to embankment in place. The quantity has been adjusted to reflect this.

Quantities in Section 1 – Notice to Bidders do not reflect revised quantities from this addendum.

The transverse crack repair detail has been added to show the correct width.

CRAWFORD, MURPHY & TILLY, INC.

This Addendum consists of 5 pages plus 7 revised plan sheets, a revised Proposal Form, and an acknowledgment transmittal sheet.

Signed
(Contractor)

Date

Contractor to sign and date this Addendum #1 to acknowledge receipt. This signed Addendum must be included with the submitted Bid Package.

TRANSMITTAL

To: Crawford, Murphy & Tilly, Inc

Attention: **Brian Garkie**

Re: Addendum #1

E-mail: bgarkie@cmtengr.com

From:

(name)

(company)

Date:

To verify that all contractors are in receipt of this addendum, Contractors are asked to sign and date this acknowledgement sheet. The Contractor should e-mail to Brian Garkie of Crawford, Murphy, & Tilly, Inc. at the e-mail address listed below by **May 20, 2020**.

Phone: (314) 436-5500

E-mail : bgarkie@cmtengr.com

BY: CRAWFORD, MURPHY, & TILLY, INC.

BASE BID						
BID ITEM	SPEC. NO.	ITEM DESCRIPTION	APPROX. QTY AND UNITS		UNIT PRICE	EXTENSION
X	XXXXXX	Sample	109 Each	Words	<i>Twenty one and 55/100</i>	<i>Two thousand three hundred forty eight and 95/100</i>
				Numerals	<i>21.55</i>	<i>2,348.95</i>
1	C-100-14.1	Contractor Quality Control Program (CQCP)	1 Lump Sum	Words		
				Numerals		
2	C-102-5.1	Installation and Removal of Straw Wattles	4,000 Linear Foot	Words		
				Numerals		
3	C-102-5.2	Erosion Control Blanket	24,500 Square Yard	Words		
				Numerals		
4	C-102-5.3	Rip Rap	1,060 Square Yard	Words		
				Numerals		
5	C-105-6.1	Mobilization (10% Limit)	1 Lump Sum	Words		
				Numerals		

6	C-105-6.2	Engineer's Field Office	1 Lump Sum	Words		
				Numerals		
7	P-101-5.1	Bituminous Pavement Milling - 0.5"	35,622 Square Yard	Words		
				Numerals		
8	P-101-5.2	Asphalt Crack Preparation & Seal	6,000 Linear Foot	Words		
				Numerals		
9	P-152-4.1	Embankment in Place	7,285 Cubic Yard	Words		
				Numerals		
10	P-154-5.1	Subbase Course – 12"	9,108 Square Yard	Words		
				Numerals		
11	P-208-5.1	9" Crushed Aggregate Base Course	9,108 Square Yard	Words		
				Numerals		
12	P-403-8.1	Asphalt Mixture Surface Course (3.5")	10,000 Ton	Words		
				Numerals		

13	P-403-8.1	Asphalt Mixture Base Course (2.5")	1,600 Ton	Words		
				Numerals		
14	P-602-5.1	Emulsified Asphalt Prime Coat	3,200 Gallon	Words		
				Numerals		
15	P-603-5.1	Emulsified Asphalt Tack Coat	6,800 Gallon	Words		
				Numerals		
16	P-620-5.1	White Runway Markings, with Reflective Media	26,000 Square Foot	Words		
				Numerals		
17	P-620-5.2	Yellow Taxiway Markings, with Reflective Media	1,600 Square Foot	Words		
				Numerals		
18	P-620-5.3	Black Markings	10,000 Square Foot	Words		
				Numerals		
19	D-705-5.1	4" Perforated Underdrain Pipe	2,100 Linear Foot	Words		
				Numerals		

20	D-705-5.2	4" Non-Perforated Underdrain Pipe	130 Linear Foot	Words		
				Numerals		
21	D-705-5.3	Underdrain Cleanout	4 Each	Words		
				Numerals		
22	D-705-5.4	Underdrain Collection Structure	2 Each	Words		
				Numerals		
23	D-705-5.5	Underdrain End Section	2 Each	Words		
				Numerals		
24	D-705-5.6	Direct Connection	1 Each	Words		
				Numerals		
25	T-901-5.1	Airport Seeding	9.6 Acre	Words		
				Numerals		
26	T-908-5.1	Hydraulically Applied Mulching	4.8 Acre	Words		
				Numerals		

27	L-101-5.1	Replace Airport Rotating Beacon Light	1 Each	Words		
				Numerals		
28	L-103-5.1	Repaint Airport Beacon Tower	1 Lump Sum	Words		
				Numerals		
29	L-107-5.1	L-807 Wind Cone, Internally LED Lighted, 12-Foot (In-Place)	1 Each	Words		
				Numerals		
30	L-108-5.1	1/C #8, L-824, Type C, 5KV Cable	13,800 Linear Foot	Words		
				Numerals		
31	L-108-5.2	PAPI 15-33 Circuit, 2-1/C #8, L-824, Type C, 5KV Cable, in 1-1/2" Unit Duct	4,500 Linear Foot	Words		
				Numerals		
32	L-108-5.3	1/C #6 Bare Copper Counterpoise Cable	12,300 Linear Foot	Words		
				Numerals		
33	L-108-5.4	Wind Cone Circuit, 2#8 Type USE, 1#8 Gnd., in 1" Unit Duct	1,900 Linear Foot	Words		
				Numerals		

34	L-108-5.5	Beacon Circuit, 2-#8 Type USE, 1-#8 Gnd., in 1" Unit Duct	2,300 Linear Foot	Words		
				Numerals		
35	L-108-5.6	AWOS Circuit, 2-#4 Type USE, 1-#8 Gnd., in 1-1/2" Unit Duct	50 Linear Foot	Words		
				Numerals		
36	L-109-7.1	14' x 12' Prefabricated Electrical Vault Shelter	1 Lump Sum	Words		
				Numerals		
37	L-109-7.2	Vault Foundation	1 Lump Sum	Words		
				Numerals		
38	L-109-7.3	L-828, 7.5KW Ferroresonant Regulator	1 Each	Words		
				Numerals		
39	L-109-7.4	Electrical Vault Removal	1 Lump Sum	Words		
				Numerals		
40	L-110-5.1	2" PVC Conduit Direct Buried	12,800 Linear Foot	Words		
				Numerals		

41	L-110-5.2	2" PVC Concrete Encased Duct	170 Linear Foot	Words		
				Numerals		
42	L-110-5.2	2-4" PVC Concrete Encased Duct	125 Linear Foot	Words		
				Numerals		
43	L-125-5.1	MIRL LED Base Mounted	52 Each	Words		
				Numerals		
44	L-125-5.2	MITL LED Base Mounted	36 Each	Words		
				Numerals		
45	L-125-5.3	Bi-Directional LED Threshold Light	16 Each	Words		
				Numerals		
46	L-125-5.4	Remove Base Mounted Light	11 Each	Words		
				Numerals		
47	L-125-5.5	Remove Stake Mounted Light	81 Each	Words		
				Numerals		

48	L-125-5.6	Remove Runway PAPI, 4 Box System	2 Each	Words		
				Numerals		
49	L-125-5.7	Install Runway PAPI, 4 Box System	2 Each	Words		
				Numerals		
50	L-125-5.8	Replace Runway 15 REIL	1 Lump Sum	Words		
				Numerals		
51	L-125-5.9	Remove Runway 33 REIL	1 Lump Sum	Words		
				Numerals		
52	L-125-5.10	Install Runway 33 REIL	1 Lump Sum	Words		
				Numerals		
53	L-125-5.11	Replace Runway Hold Sign, Unlighted	1 Each	Words		
				Numerals		
54	L-125-5.12	Splice Can	15 Each	Words		
				Numerals		

55	L-125-5.13	Spare MIRL LED	5 Each	Words		
				Numerals		
56	L-125-5.14	Spare MITL LED	3 Each	Words		
				Numerals		
57	L-125-5.15	Spare Bi-Directional LED Threshold Light	2 Each	Words		
				Numerals		
58	SP-1-6.1	Transverse Crack Repair (36” Width)	5,000 Linear Foot	Words		
				Numerals		
59	SP-2-5.1	Traffic Control	1 Lump Sum	Words		
				Numerals		
TOTAL BASE BID				Words		
				Numerals		

SUMMARY OF QUANTITIES

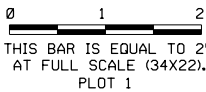
BASE BID

NO.	ITEM	DESCRIPTION	UNIT	QUANTITY
1	C-100-14.1	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	LS	1
2	C-102-5.1	INSTALLATION AND REMOVAL OF STRAW WATTLES	LF	4,000
3	C-102-5.2	EROSION CONTROL BLANKET	SY	24,500
4	C-102-5.3	RIP RAP	SY	1,060
5	C-105-6.1	MOBILIZATION (10% LIMIT)	LS	1
6	C-105-6.2	ENGINEER'S FIELD OFFICE	LS	1
7	P-101-5.1	BITUMINOUS PAVEMENT MILLING - 0.5"	SY	35,622
8	P-101-5.2	ASPHALT CRACK PREPARATION & SEAL	LF	6,000
9	P-152-4.1	EMBANKMENT IN PLACE	CY	7,285
10	P-154-5.1	SUBBASE COURSE - 12"	SY	9,108
11	P-208-5.1	9" CRUSHED AGGREGATE BASE COURSE	SY	9,108
12	P-403-8.1	ASPHALT MIXTURE SURFACE COURSE (3.5")	TON	10,000
13	P-403-8.2	ASPHALT MIXTURE BASE COURSE (2.5")	TON	1,600
14	P-602-5.1	EMULSIFIED ASPHALT PRIME COAT	GAL	3,200
15	P-603-5.1	EMULSIFIED ASPHALT TACK COAT	GAL	6,800
16	P-620-5.1	WHITE RUNWAY MARKINGS, WITH REFLECTIVE MEDIA	SF	26,000
17	P-620-5.2	YELLOW TAXIWAY MARKINGS, WITH REFLECTIVE MEDIA	SF	1,600
18	P-620-5.3	BLACK MARKINGS	SF	10,000
19	D-705-5.1	4" PERFORATED UNDERDRAIN PIPE	LF	2,100
20	D-705-5.2	4" NON-PERFORATED UNDERDRAIN PIPE	LF	130
21	D-705-5.3	UNDERDRAIN CLEANOUT	EA	4
22	D-705-5.4	UNDERDRAIN COLLECTION STRUCTURE	EA	2
23	D-705-5.5	UNDERDRAIN END SECTION	EA	2
24	D-705-5.6	DIRECT CONNECTION	EA	1
25	T-901-5.1	AIRPORT SEEDING	AC	9.6
26	T-908-5.1	HYDRAULICALLY APPLIED MULCHING	AC	4.8
27	L-101-5.1	REPLACE AIRPORT ROTATING BEACON LIGHT	EA	1
28	L-103-5.1	REPAINT AIRPORT BEACON TOWER	LS	1
29	L-107-5.1	L-807 WIND CONE, INTERNALLY LED LIGHTED, 12-FEET (IN-PLACE)	EA	1
30	L-108-5.1	1/C *8, L-824, TYPE C, 5KV CABLE	LF	13,800
31	L-108-5.2	PAPI 15-33 CIRCUIT, 2-1/C*8, L-824, TYPE C, 5KV CABLE, IN 1-1/2" UNIT DUCT	LF	4,500
32	L-108-5.3	1/C *6 BARE COPPER COUNTERPOISE CABLE	LF	12,300
33	L-108-5.4	WIND CONE CIRCUIT, 2*8 TYPE USE, 1*8 GND., IN 1" UNIT DUCT	LF	1,900
34	L-108-5.5	BEACON CIRCUIT, 2*8 TYPE USE, 1*8 GND., IN 1" UNIT DUCT	LF	2,300
35	L-108-5.6	AWOS CIRCUIT, 2*4 TYPE USE, 1*8 GND., IN 1-1/2" UNIT DUCT	LF	50
36	L-109-7.1	14' x 12' PREFABRICATED ELECTRICAL VAULT SHELTER	LS	1
37	L-109-7.2	VAULT FOUNDATION	LS	1
38	L-109-7.3	L-828, 7.5 KW FERRORESONANT REGULATOR	EA	1
39	L-109-7.4	ELECTRICAL VAULT REMOVAL	LS	1
40	L-110-5.1	2" PVC CONDUIT DIRECT BURIED	LF	12,800
41	L-110-5.2	2" PVC CONCRETE ENCASED DUCT	LF	170
42	L-110-5.3	2-4" PVC CONCRETE ENCASED DUCT	LF	125
43	L-125-5.1	MIRL LED BASE MOUNTED	EA	52
44	L-125-5.2	MITL LED BASE MOUNTED	EA	36
45	L-125-5.3	BI-DIRECTIONAL LED THRESHOLD LIGHT	EA	16
46	L-125-5.4	REMOVE BASE MOUNTED LIGHT	EA	11
47	L-125-5.5	REMOVE STAKE MOUNTED LIGHT	EA	81
48	L-125-5.7	REMOVE RUNWAY PAPI, 4 BOX SYSTEM	EA	2
49	L-125-5.8	INSTALL RUNWAY PAPI, 4 BOX SYSTEM	EA	2
50	L-125-5.9	REPLACE RUNWAY 15 REIL	LS	1
51	L-125-5.10	REMOVE RUNWAY 33 REIL	LS	1
52	L-125-5.11	INSTALL RUNWAY 33 REIL	LS	1
53	L-125-5.12	REPLACE RUNWAY HOLD SIGN, UNLIGHTED	EA	1
54	L-125-5.13	SPLICE CAN	EA	15
55	L-125-5.14	SPARE MIRL LED	EA	5
56	L-125-5.15	SPARE MITL LED	EA	3
57	L-125-5.16	SPARE BI-DIRECTIONAL LED THRESHOLD LIGHT	EA	2
58	SP-1-6.1	TRANSVERSE CRACK REPAIR (36" WIDTH)	LF	5,000
59	SP-2-5.1	TRAFFIC CONTROL	LS	1

NOTES:INSTALLATION AND REMOVAL OF STRAW WATTLES (ITEM C-102-5.1) TO BE USED FOR TROUBLED AREAS. OTHERWISE, QUANTITY SHOULD NOT BE USED.

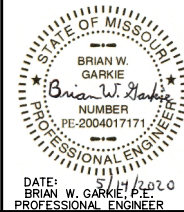
REVISIONS

NUMBER	BY	DATE
1	BDB	4/29/2020



CAMDENTON MEMORIAL-LAKE
REGIONAL AIRPORT
CAMDENTON, MISSOURI

OVERLAY AND EXTEND RUNWAY 15-33



STATE PROJECT NO. 19-045B-2



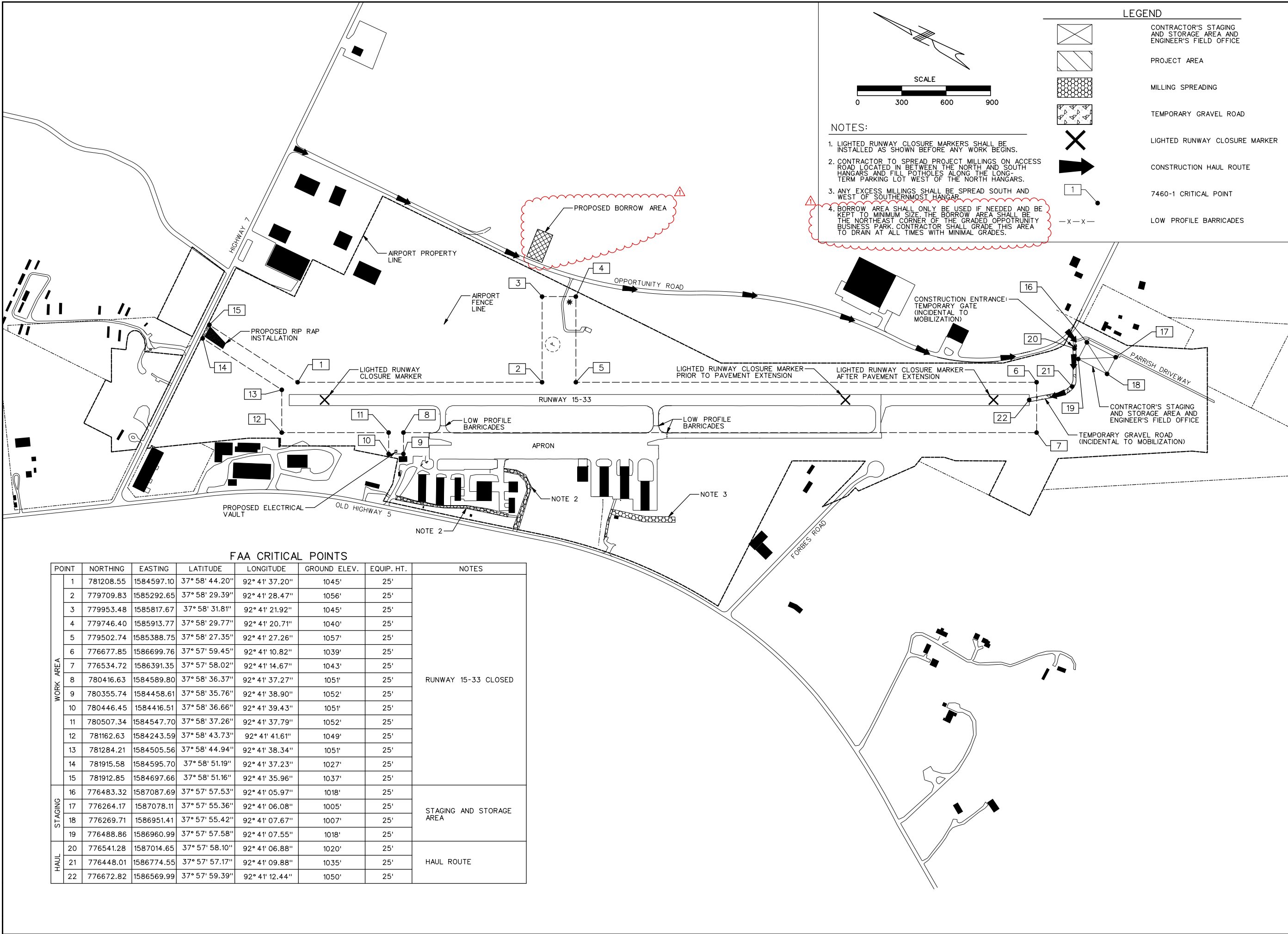
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR THE ACCURACY OF THE QUANTITIES SHOWN ON THIS SUMMARY OF QUANTITIES. ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, AND OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED OR SIGNED BY THE PROFESSIONAL ENGINEER SHALL BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS SUMMARY OF QUANTITIES APPLIES.

EARTHWORK SUMMARY

BASLINE	CUT (CY)	FILL (CY)
RUNWAY	6,501	7,029
TAXIWAY A1	2	27
TAXIWAY A2	0	115
TAXIWAY A3	138	114
TOTAL	6,641	7,285

NOTE: EARTHWORK NUMBERS WERE NOT ADJUSTED FOR ANY SHRINKAGE OR SWELL FACTORS

SUMMARY OF QUANTITIES



REVISIONS

NUMBER	BY	DATE
1	BDB	4/29/2020

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

CAMDENTON MEMORIAL-LAKE REGIONAL AIRPORT
CAMDENTON, MISSOURI

OVERLAY AND EXTEND RUNWAY 15-33

STATE OF MISSOURI
BRIAN W. GARKIE
NUMBER
PE-2004017171
PROFESSIONAL ENGINEER
DATE: 5/14/2020
BRIAN W. GARKIE, P.E.
PROFESSIONAL ENGINEER

ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102
(314) 436-5500
CMT
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PROFESSIONAL ENGINEERING - 000631

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN AND NOT FOR THE ACCURACY OF ANY OTHER INFORMATION CONTAINED HEREIN. ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE PROFESSIONAL ENGINEER SHALL BE VOID AND NOT BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS SEAL APPLIES.

STATE PROJECT NO. 19-045B-2

FILE: 05_Construction_Activity_Plan.dgn

DESIGN BY: JTZ

DRAWN BY: CAG

CHECKED BY: TCS

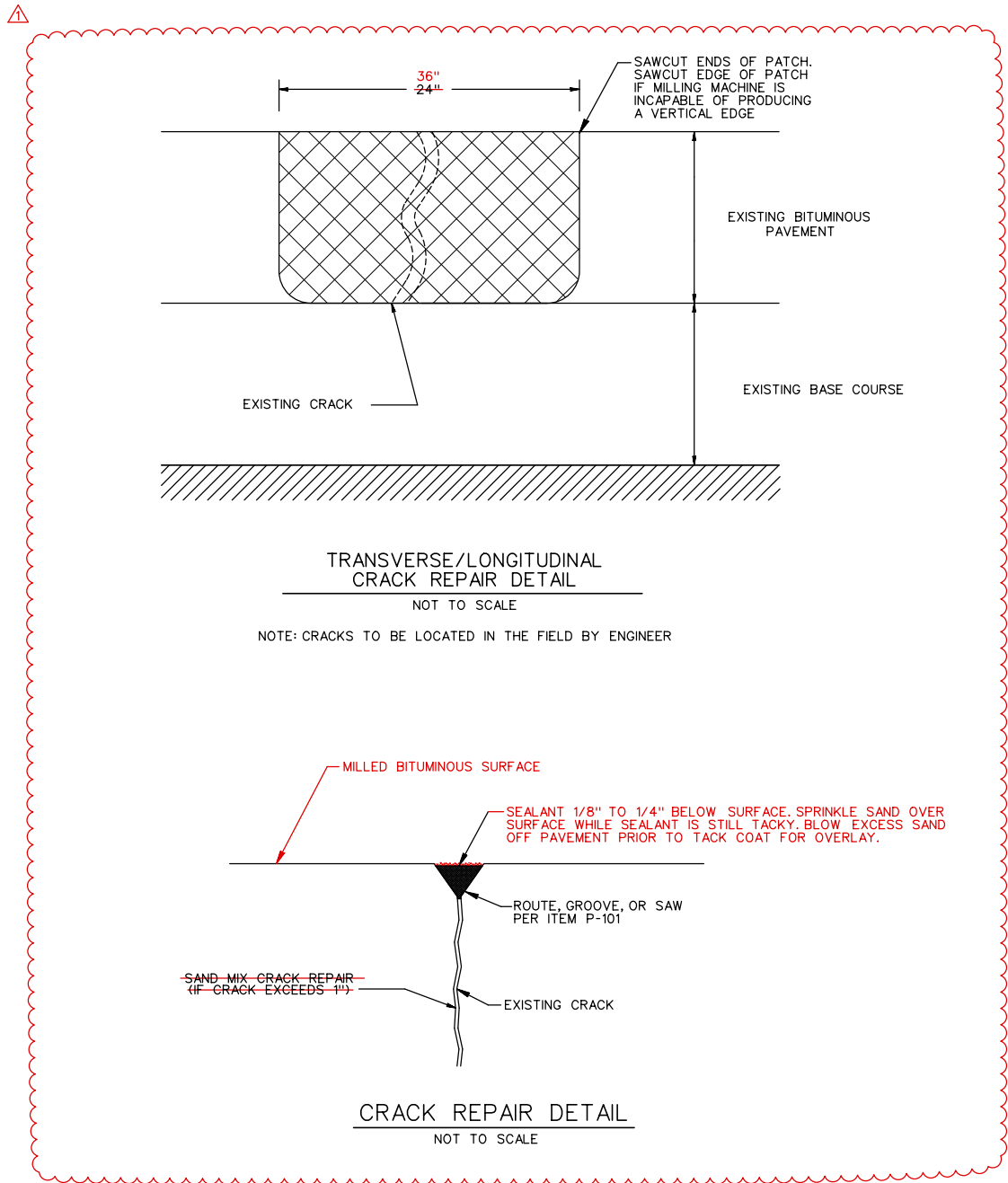
APPROVED BY: BWG

DATE: APRIL 17, 2020

JOB No: 19048002


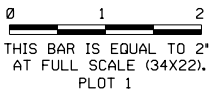



CONSTRUCTION ACTIVITY PLAN

SHEET 5 OF 74 SHEETS

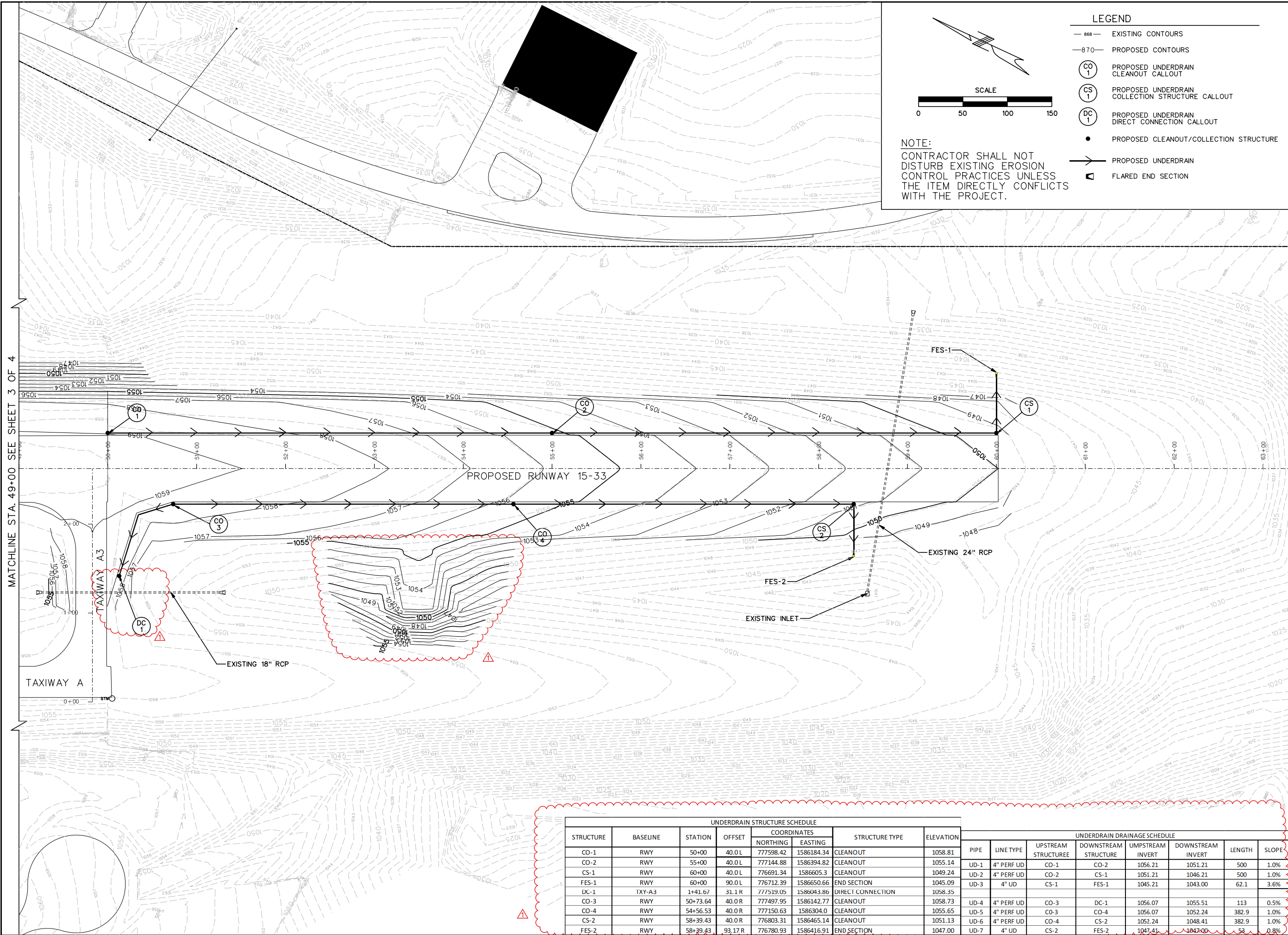


NOTE:

CONTRACTOR SHALL NOT EXCEED CONTRACT QUANTITY ON ANY PAY ITEM WITHOUT PRIOR AUTHORIZATION. ANY CRACKS THAT ARE ROUTED THAT EXCEED THE CONTRACT QUANTITY WITHOUT PRIOR AUTHORIZATION, SHALL BE SEALED AT NO ADDITIONAL COST TO THE CONTRACT.

REVISIONS		
NUMBER	BY	DATE
	BWG	5/14/2020
		
<div>CAMDENTON MEMORIAL-LAKE REGIONAL AIRPORT CAMDENTON, MISSOURI</div> <div>OVERLAY AND EXTEND RUNWAY 15-33</div>		
<div><div>DATE: 5/14/2020 BRIAN W. GARKIE, P.E. PROFESSIONAL ENGINEER</div></div> <div><div><div>© Copyright CMT, Inc. PROFESSIONAL ENGINEERING - 000631</div></div></div> <div>STATE PROJECT NO. 19-045B-2</div>		
FILE: 16_Paving_Misc_Details.dgn		
DESIGN BY: JTZ		
DRAWN BY: CAG		
CHECKED BY: TCS		
APPROVED BY: BWG		
DATE: APRIL 17, 2020		
JOB No: 19048002		
PAVING MISCELLANEOUS DETAILS		
SHEET 16 OF 74 SHEETS		

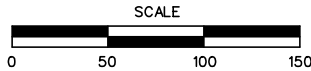
MATCHLINE STA. 49+00 SEE SHEET 3 OF 4



NOTE:
CONTRACTOR SHALL NOT
DISTURB EXISTING EROSION
CONTROL PRACTICES UNLESS
THE ITEM DIRECTLY CONFLICTS
WITH THE PROJECT.

LEGEND

- 868 — EXISTING CONTOURS
- 870 — PROPOSED CONTOURS
- CO 1 — PROPOSED UNDERDRAIN CLEANOUT CALLOUT
- CS 1 — PROPOSED UNDERDRAIN COLLECTION STRUCTURE CALLOUT
- DC 1 — PROPOSED UNDERDRAIN DIRECT CONNECTION CALLOUT
- — PROPOSED CLEANOUT/COLLECTION STRUCTURE
- — PROPOSED UNDERDRAIN
- ▤ — FLARED END SECTION



REVISIONS

NUMBER	BY	DATE
1	BDB	4/29/2020

012

1

2

THIS BAR IS EQUAL TO 2'
AT FULL SCALE (34X22).
PLOT 1

CAMDENTON MEMORIAL-LAKE
REGIONAL AIRPORT
CAMDENTON, MISSOURI

OVERLAY AND EXTEND RUNWAY 15-33

STATE OF MISSOURI
BRIAN W. GARKIE
NUMBER
PE-2004017171
PROFESSIONAL ENGINEER
DATE: 02/24/15
BRIAN W. GARKIE, P.E.
PROFESSIONAL ENGINEER

ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102
(314) 436-5500

CMT

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PROFESSIONAL ENGINEERING - 000631

STATE PROJECT NO. 19-045B-2

FILE: 25_Grading_And_Drainage_Plan_4.dgn

DESIGN BY: JTZ

DRAWN BY: CAG

CHECKED BY: TCS

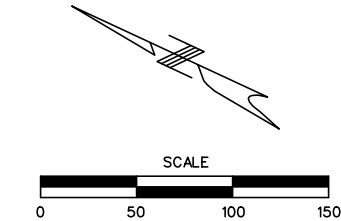
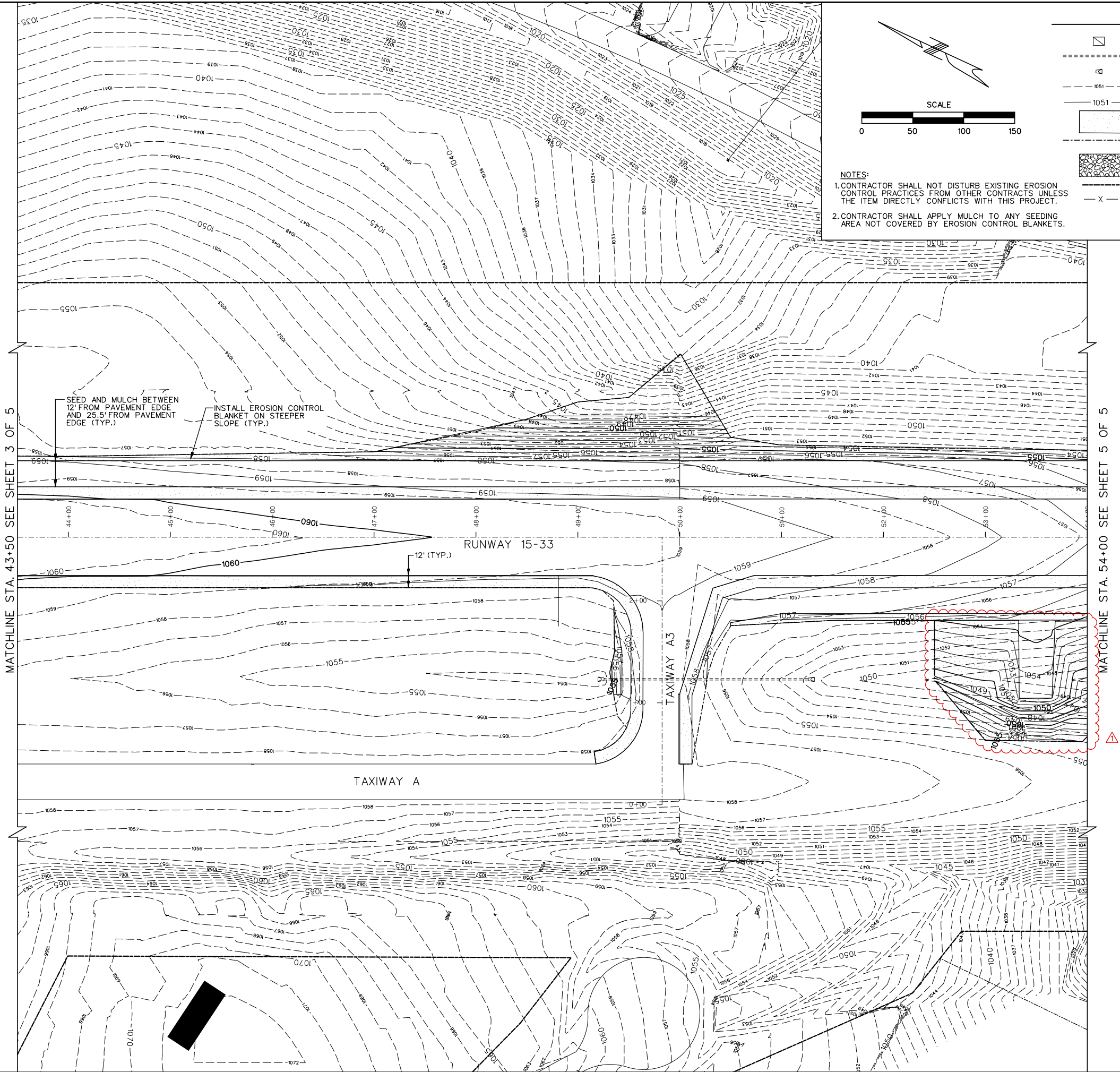
APPROVED BY: BWG

DATE: APRIL 17, 2020

JOB No: 19048002

GRADING AND
DRAINAGE PLAN
SHEET 4 OF 4

SHEET 25 OF 74 SHEETS



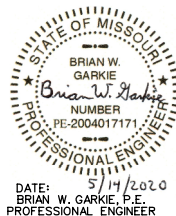
- NOTES:
1. CONTRACTOR SHALL NOT DISTURB EXISTING EROSION CONTROL PRACTICES FROM OTHER CONTRACTS UNLESS THE ITEM DIRECTLY CONFLICTS WITH THIS PROJECT.
 2. CONTRACTOR SHALL APPLY MULCH TO ANY SEEDING AREA NOT COVERED BY EROSION CONTROL BLANKETS.

LEGEND		
	EXISTING INLET	
	EXISTING STORM SEWER	
	EXISTING FLARED END SECTION	
	EXISTING CONTOURS	
	PROPOSED CONTOURS	
	PROPOSED EROSION CONTROL BLANKET	
	PROPOSED SEEDING LIMITS	
	PROPOSED RIP-RAP EROSION CONTROL INSTALLATION	
	AIRPORT PROPERTY LINE	
	AIRPORT FENCE LINE	

REVISIONS		
NUMBER	BY	DATE
1	BDB	4/29/2020
THIS BAR IS EQUAL TO 2' AT FULL SCALE (34X22). PLOT 1		

CAMDENTON MEMORIAL-LAKE
REGIONAL AIRPORT
CAMDENTON, MISSOURI

OVERLAY AND EXTEND RUNWAY 15-33

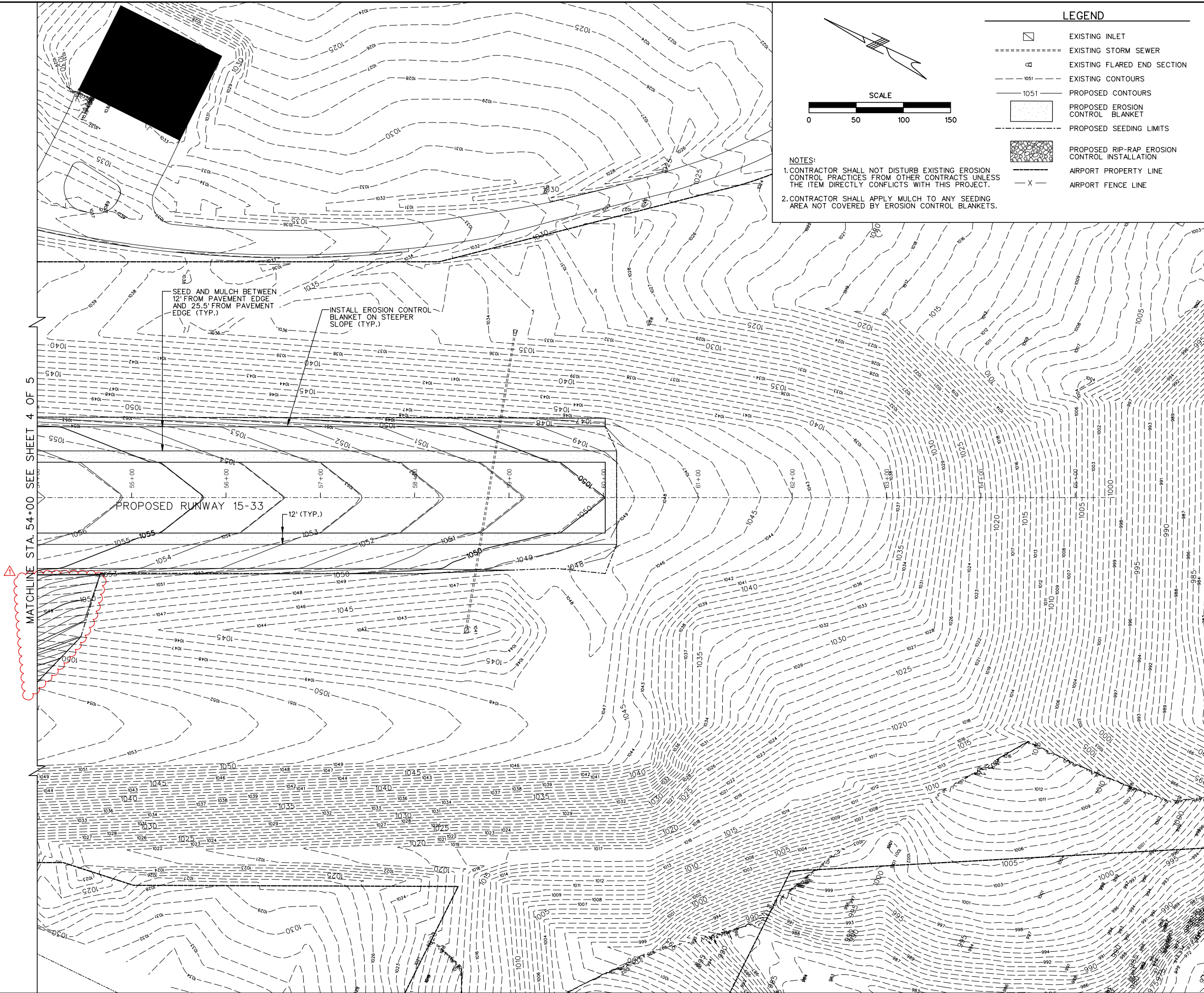


DATE: 4/15/2020
BRIAN W. GARKIE, P.E.
PROFESSIONAL ENGINEER



STATE PROJECT NO. 19-045B-2

FILE: 30_Erosion_Control_Plan_Sheet_4_of_5.dgn
DESIGN BY: JTZ
DRAWN BY: CAG
CHECKED BY: TCS
APPROVED BY: BWG
DATE: APRIL 17, 2020
JOB No: 19048002
EROSION CONTROL PLAN SHEET 4 OF 5
SHEET 30 OF 74 SHEETS



REVISIONS		
NUMBER	BY	DATE
1	BDB	4/29/2020
THIS BAR IS EQUAL TO 2' AT FULL SCALE (34X22). PLOT 1		
CAMDENTON MEMORIAL-LAKE REGIONAL AIRPORT CAMDENTON, MISSOURI		
OVERLAY AND EXTEND RUNWAY 15-33		
<div><div><div>STATE OF MISSOURI BRIAN W. GARKIE NUMBER PE-2004017171 PROFESSIONAL ENGINEER DATE: 5/14/2020 BRIAN W. GARKIE, P.E. PROFESSIONAL ENGINEER</div><div><div>CMT</div><div>ONE MEMORIAL DRIVE, SUITE 500 ST. LOUIS, MO 63102 (314) 436-5500</div><div>© Copyright CMT, Inc. PROFESSIONAL ENGINEERING - 000631</div></div></div><div>THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR THE ACCURACY OF THE INFORMATION AND DATA FURNISHED TO HIM BY OTHERS AND FOR THE PREPARATION OF ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, AND OTHER DOCUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT FOR WHICH THIS PAGE PREPARED.</div></div>		
STATE PROJECT NO. 19-045B-2		
FILE: 31_Erosion_Control_Plan_Sheet_5_of_5		
DESIGN BY: JTZ		
DRAWN BY: CAG		
CHECKED BY: TCS		
APPROVED BY: BWG		
DATE: APRIL 17, 2020		
JOB No: 19048002		
EROSION CONTROL PLAN SHEET 5 OF 5		
SHEET 31 OF 74 SHEETS		

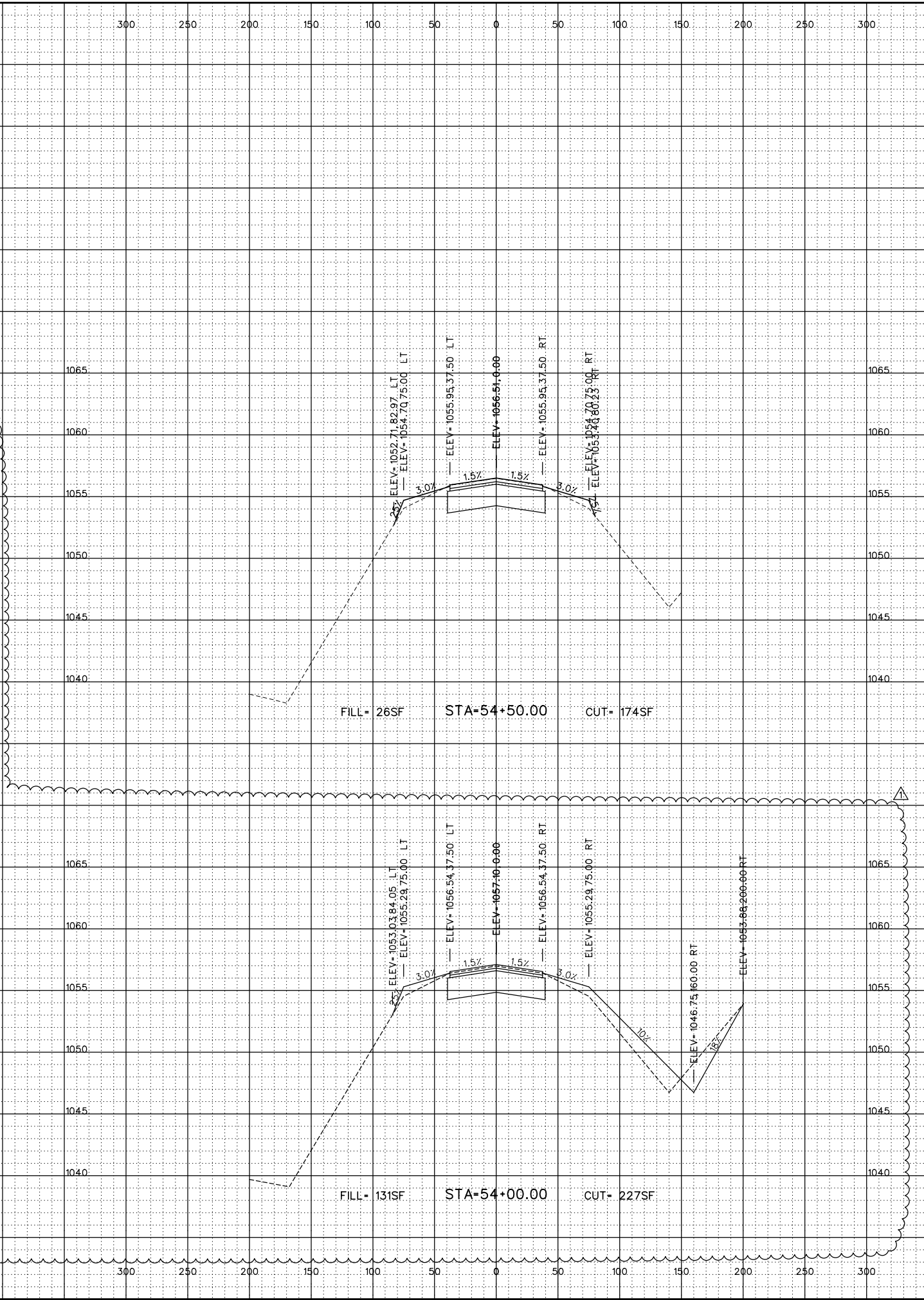
The image displays two cross-section diagrams of a road, one for STA=53+00.00 and another for STA=53+50.00. Both diagrams show a road cross-section with a centerline at 0.00, left side (LT) and right side (RT) elevations, and a cross-section area. The top diagram is for STA=53+50.00 and the bottom for STA=53+00.00. Both show a fill area of 391SF and a cut area of 227SF. The diagrams include a grid with stationing from 300 to 0 and 0 to 300, and elevations from 1045 to 1065.

Top Diagram (STA=53+50.00):

- Centerline:** ELEV=1057.48+0.00
- Left Side (LT):** ELEV=1053.18+85.78 LT, ELEV=1055.88+75.00 LT, ELEV=1057.12+37.50 LT
- Right Side (RT):** ELEV=1057.12+37.50 RT, ELEV=1055.50+87.50 RT, ELEV=1054.90+107.50 RT, ELEV=1054.30+127.50 RT, ELEV=1053.70+147.50 RT, ELEV=1053.40+157.50 RT, ELEV=1047.43+175.37 RT, ELEV=1054.54+200.00 RT
- Grades:** 3.0%, 1.5%, 1.5%, 3.0%, 3.0%, 3.0%, 3.0%, 3.0%
- Fill:** 391SF
- Cut:** 227SF

Bottom Diagram (STA=53+00.00):

- Centerline:** ELEV=1056.16+0.00
- Left Side (LT):** ELEV=1053.35+87.02 LT, ELEV=1056.36+75.00 LT, ELEV=1057.60+37.50 LT
- Right Side (RT):** ELEV=1057.60+37.50 RT, ELEV=1056.36+75.00 RT, ELEV=1048.14+160.00 RT, ELEV=1055.13+200.00 RT
- Grades:** 3.0%, 1.5%, 1.5%, 3.0%, 10%
- Fill:** 157SF
- Cut:** 207SF



REVISIONS		
NUMBER	BY	DATE
1	BDB	4/29/2020
<p>THIS BAR IS EQUAL TO 2' AT FULL SCALE (34X22). PLOT 1</p>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center; font-size: 24pt; font-weight: bold;">CAMDENTON MEMORIAL-LAKE REGIONAL AIRPORT</p> <p style="text-align: center;">CAMDENTON, MISSOURI</p> </div> <div style="width: 45%; text-align: right;"> <p style="font-size: 24pt; font-weight: bold;">OVERLAY AND EXTEND RUNWAY 15-33</p> </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>DATE: 5/14/2020 BRIAN W. GARKIE, P.E. PROFESSIONAL ENGINEER</p> </div> <div style="width: 45%; font-size: 8pt;"> <p>THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR THE ACCURACY OF THE INFORMATION AND DATA FURNISHED TO HIM BY OTHERS AND FOR THE PREPARATION OF ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED AND NOTED HEREON. NO PART OF THIS PROJECT IS TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.</p> </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>ONE MEMORIAL DRIVE, SUITE 500 ST. LOUIS, MO 63022 (314) 436-5500</p> <p>©Copyright CMT, Inc. PROFESSIONAL ENGINEERING - 000631</p> </div> <div style="width: 45%; text-align: right;"> <p style="font-size: 24pt; font-weight: bold;">STATE PROJECT NO. 19-045B-2</p> </div> </div>		
FILE: 54_to_71_Runway Cross Sect		
DESIGN BY: BDB		
DRAWN BY: BDB		
CHECKED BY: CAG		
APPROVED BY: BWG		
DATE: APRIL 17, 2020		
JOB No: 19048002		
<p>RUNWAY CROSS SECTIONS SHEET 15 OF 18</p>		
SHEET 68 OF 74 SHEETS		