Relocation of Taxiway C and Construct New Taxiway F

LRSAT Meeting

Presented to
Joplin Regional Airport

Presented by
CMT
Crawford, Murphy & Tilly

March 23, 2017

Presenter



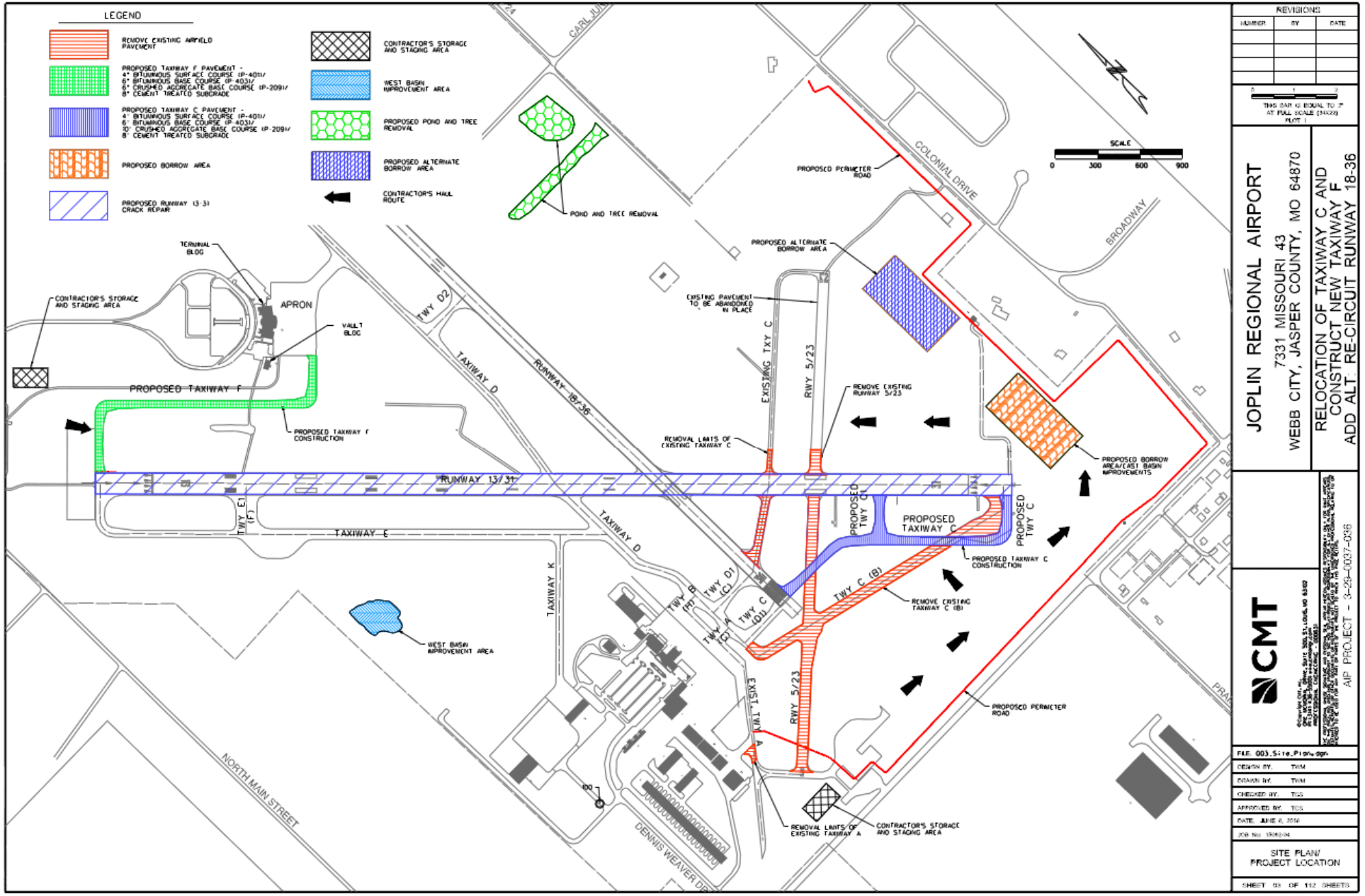
Tom Morris, P.E.

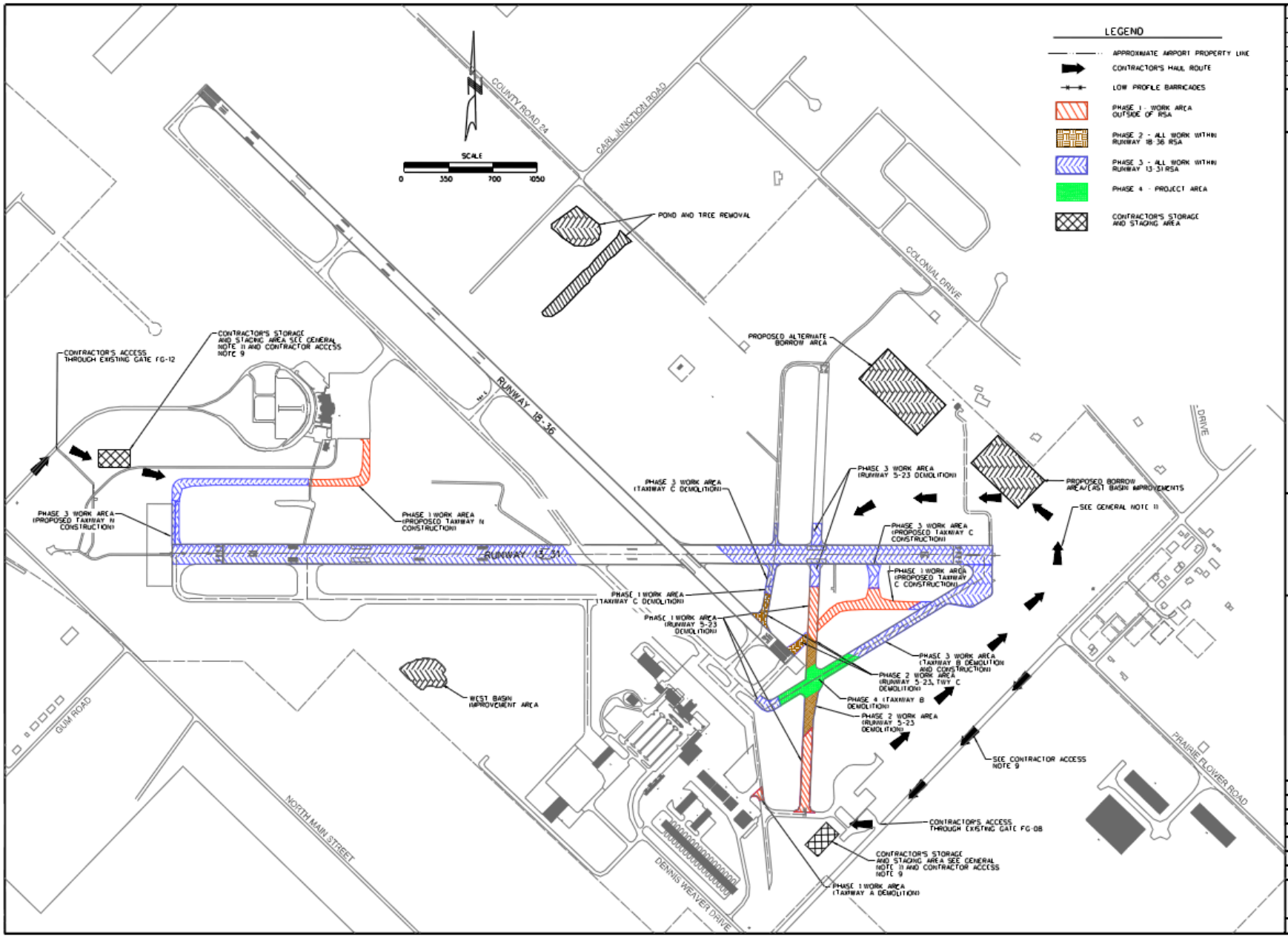
Project Advisor

Project Overview

Key Project Elements

- Demo
  - Runway 5-23 (partial)
  - Taxiway C (partial)
  - Taxiway A (partial)
  - Taxiway B
- Relocation of Taxiway C
- Construct Taxiway F
- Detention Basin and Wetland Improvements (pending approval)
- Construct Partial Perimeter Road


LEGEND
REMOVE EXISTING AIRFIELD PAVEMENT
PROPOSED TAXIWAY F PAVEMENT - 4" BITUMINOUS SURFACE COURSE (P-401) 6" BITUMINOUS BASE COURSE (P-403) 6" CRUSHED AGGREGATE BASE COURSE (P-209) 8" CEMENT TREATED SUBGRADE
PROPOSED TAXIWAY C PAVEMENT - 4" BITUMINOUS SURFACE COURSE (P-401) 6" BITUMINOUS BASE COURSE (P-403) 10" CRUSHED AGGREGATE BASE COURSE (P-209) 8" CEMENT TREATED SUBGRADE
PROPOSED BORROW AREA
PROPOSED RUNWAY 13-31 CRACK REPAIR
CONTRACTOR'S STORAGE AND STAGING AREA
WEST BASIN IMPROVEMENT AREA
PROPOSED POND AND TREE REMOVAL
PROPOSED ALTERNATE BORROW AREA
CONTRACTOR'S HAUL ROUTE
POND AND TREE REMOVAL
PROPOSED PERIMETER ROAD
COLONIAL DRIVE
BROADWAY
SCALE
0 300 600 900
TERMINAL BLDG
APRON
VAULT BLDG
CONTRACTOR'S STORAGE AND STAGING AREA
TWY D2
TAXIWAY D
RUNWAY 18-36
PROPOSED TAXIWAY F
PROPOSED TAXIWAY F CONSTRUCTION
EXISTING PAVEMENT TO BE ABANDONED IN PLACE
EXISTING TXY C
RWY 5/23
REMOVE EXISTING RUNWAY 5/23
REMOVAL LIMITS OF EXISTING TAXIWAY C
PROPOSED BORROW AREA/CAST BASIN IMPROVEMENTS
RUNWAY 13/31
TWY E1 (F)
TAXIWAY E
PROPOSED TWY C1
PROPOSED TAXIWAY C
PROPOSED TWY C
PROPOSED TAXIWAY C CONSTRUCTION
TAXIWAY K
TWY B (H1)
TWY D1 (C)
TWY A (G)
TWY C (D1)
TWY C (B)
REMOVE EXISTING TAXIWAY C (B)
EXIST. TWY A
RWY 5/23
PROPOSED PERIMETER ROAD
WEST BASIN IMPROVEMENT AREA
NORTH MAIN STREET
DENNIS WEAVER DR
REMOVAL LIMITS OF EXISTING TAXIWAY A
CONTRACTOR'S STORAGE AND STAGING AREA
REVISIONS
NUMBER BY DATE
JOPLIN REGIONAL AIRPORT
7331 MISSOURI 43
WEBB CITY, JASPER COUNTY, MO 64870
RELOCATION OF TAXIWAY C AND CONSTRUCT NEW TAXIWAY F
ADD ALT: RE-CIRCUIT RUNWAY 18-36
CMT
AIP PROJECT - 3-29-0037-056
FILE: 003_Site_Plan.dgn
DESIGN BY: TWM
DRAWN BY: TWM
CHECKED BY: TGS
APPROVED BY: TGS
DATE: JUNE 8, 2016
SITE PLAN/ PROJECT LOCATION
SHEET 03 OF 112 SHEETS



REVISIONS

NUMBER	BY	DATE
1	TWM	1/24/17

THIS BAR IS EQUAL TO 1" AT FULL SCALE (11X22) PLOT 1

JOPLIN REGIONAL AIRPORT
7331 MISSOURI 43
WEBB CITY, JASPER COUNTY, MO 64870

RELOCATION OF TAXIWAY C AND CONSTRUCT NEW TAXIWAY F
ADD ALT. RE-CIRCUIT RUNWAY 18-36

CMT

AIP PROJECT - 3-29-0037-0?16

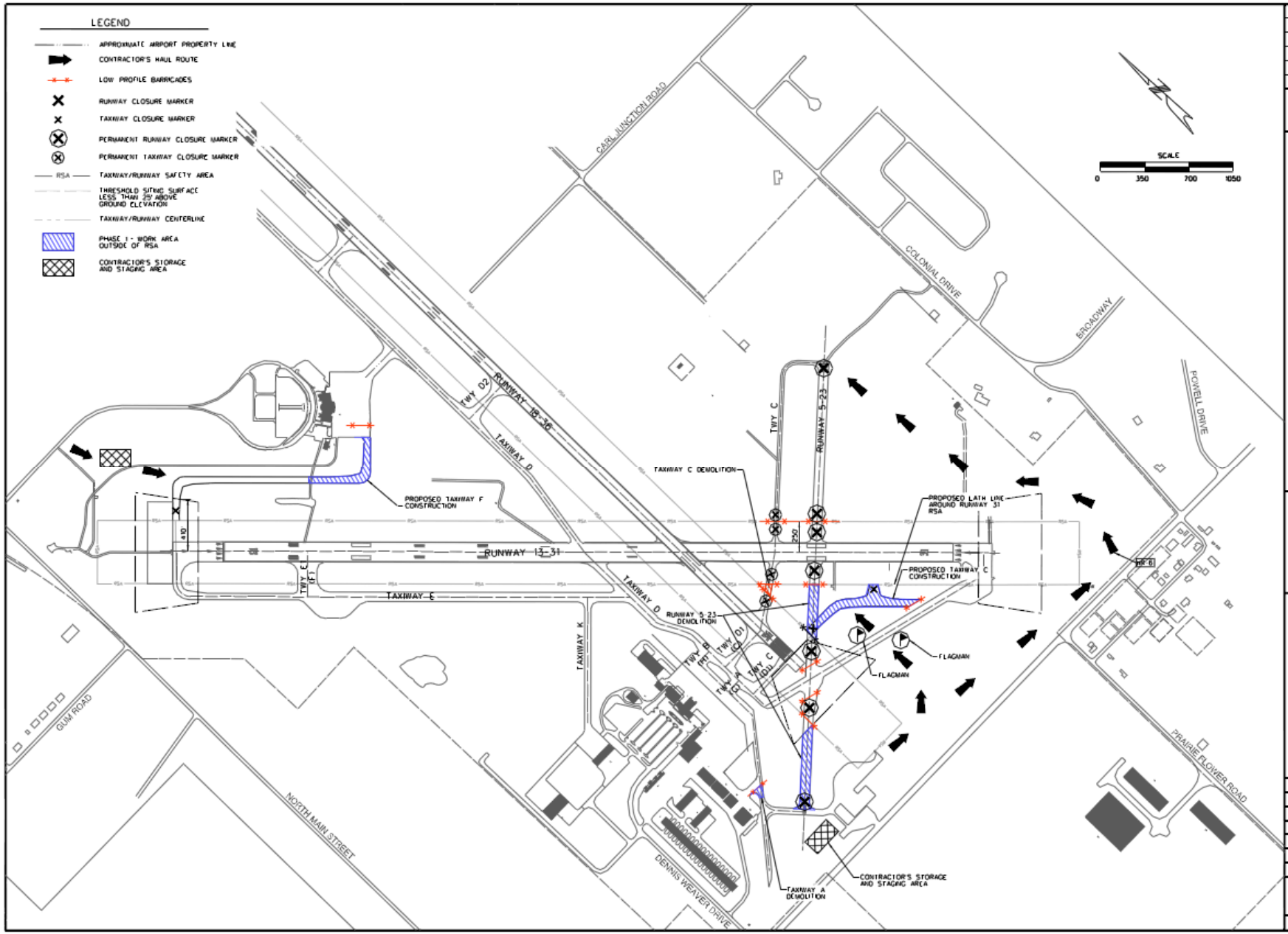
FILE: 007_CAP_Overall.dgn
DESIGN BY: TWM
DRAWN BY: TWM
CHECKED BY: TGS
APPROVED BY: TGS
DATE: JUNE 6, 2016
JOB No. 130620.04

CONSTRUCTION ACTIVITY PLAN - OVERALL

SHEET 07 OF 112 SHEETS

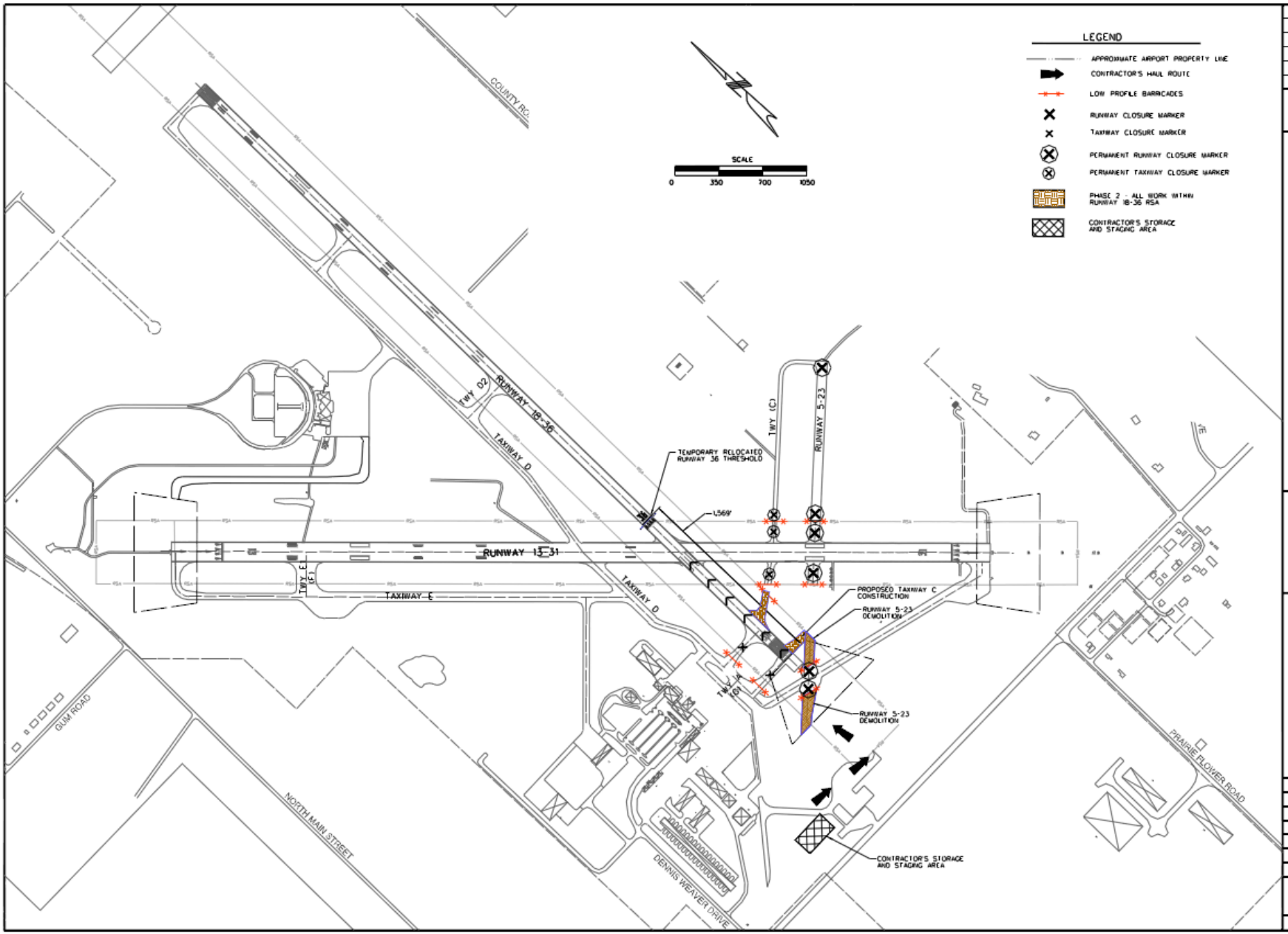
Phase 1 – Phase Table

Phase	Days	Significant Work	Sequence Info
1		• Demolition of a portion of Existing Taxiway C • Demolition of a portion of Runway 5-23 • Construction of New Taxiway F: outside of all active airfield pavement safety areas • Construction of New Taxiway C: outside of all active airfield pavement safety areas	• Phase 1 may occur simultaneously with Phase 2 or Phase 3, but not both simultaneously. • Phase 1 may not occur simultaneously with Phase 4. Phase 1 must be completed before work can begin in Phase 4.


LEGEND
APPROXIMATE AIRPORT PROPERTY LINE
CONTRACTOR'S HAUL ROUTE
LOW PROFILE BARRICADES
RUNWAY CLOSURE MARKER
TAXIWAY CLOSURE MARKER
PERMANENT RUNWAY CLOSURE MARKER
PERMANENT TAXIWAY CLOSURE MARKER
RSA TAXIWAY/RUNWAY SAFETY AREA
THRESHOLD SLOPED SURFACE LESS THAN 25' ABOVE GROUND ELEVATION
TAXIWAY/RUNWAY CENTERLINE
PHASE 1 - WORK AREA OUTSIDE OF RSA
CONTRACTOR'S STORAGE AND STAGING AREA
SCALE
0 350 700 1050
CARL JUNCTION ROAD
COLONIAL DRIVE
BROADWAY
POWELL DRIVE
PRAIRIE FLOWER ROAD
GUM ROAD
NORTH MAIN STREET
DENNIS WEAVER DRIVE
RUNWAY 18-36
RUNWAY 13-31
RUNWAY 5-23
TAXIWAY C
TAXIWAY D
TAXIWAY E
TAXIWAY K
TWY D2
TWY E
TWY B
TWY C
TWY D1
TWY D
PROPOSED TAXIWAY F CONSTRUCTION
TAXIWAY C DEMOLITION
PROPOSED LATH LINE AROUND RUNWAY 31 RSA
PROPOSED TAXIWAY C CONSTRUCTION
RUNWAY 5-23 DEMOLITION
FLAGMAN
FLAGMAN
TAXIWAY A DEMOLITION
CONTRACTOR'S STORAGE AND STAGING AREA
410
250
REVISIONS
NUMBER BY DATE
1 TWM 1/24/17
THIS BAR IS EQUAL TO 1" AT FULL SCALE (24X36) PLOT 1
JOPLIN REGIONAL AIRPORT
7331 MISSOURI 43
WEBB CITY, JASPER COUNTY, MO 64870
RELOCATION OF TAXIWAY C AND CONSTRUCT NEW TAXIWAY F
ADD ALT. RE-CIRCUIT RUNWAY 18-36
CMT
AIP PROJECT - 3-29-0037-018
FILE 008.CAP.Overall Plan
DESIGN BY. TWM
DRAWN BY. TWM
CHECKED BY. TGS
APPROVED BY. TGS
DATE JUNE 6, 2016
CONSTRUCTION ACTIVITY PLAN - PHASE 1
SHEET 08 OF 112 SHEETS

Phase 2 – Phase Table

Phase	Days	Significant Work	Sequence Info
2	60	• Implement temporary displaced threshold for Runway 18-36 • Demolition of Runway 5-23 and portion of Taxiway C, Construction of Taxiway C within the Runway 5-23 RPZ • Re-circuit Runway 18-36 inside existing Taxiway B TOFA	• Phase 2 may occur simultaneously with Phase 1. • Phase 2 may not occur simultaneously with Phase 3 or Phase 4. Phase 2 must be completed before work can begin in Phase 4.



REVISIONS

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1	TWM	1/24/17

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WEBB CITY, JASPER COUNTY, MO 64870

RELOCATION OF TAXIWAY C AND CONSTRUCT NEW TAXIWAY F
ADD ALT. RE-CIRCUIT RUNWAY 18-36

CMT

AIP PROJECT - 3-29-0017-018

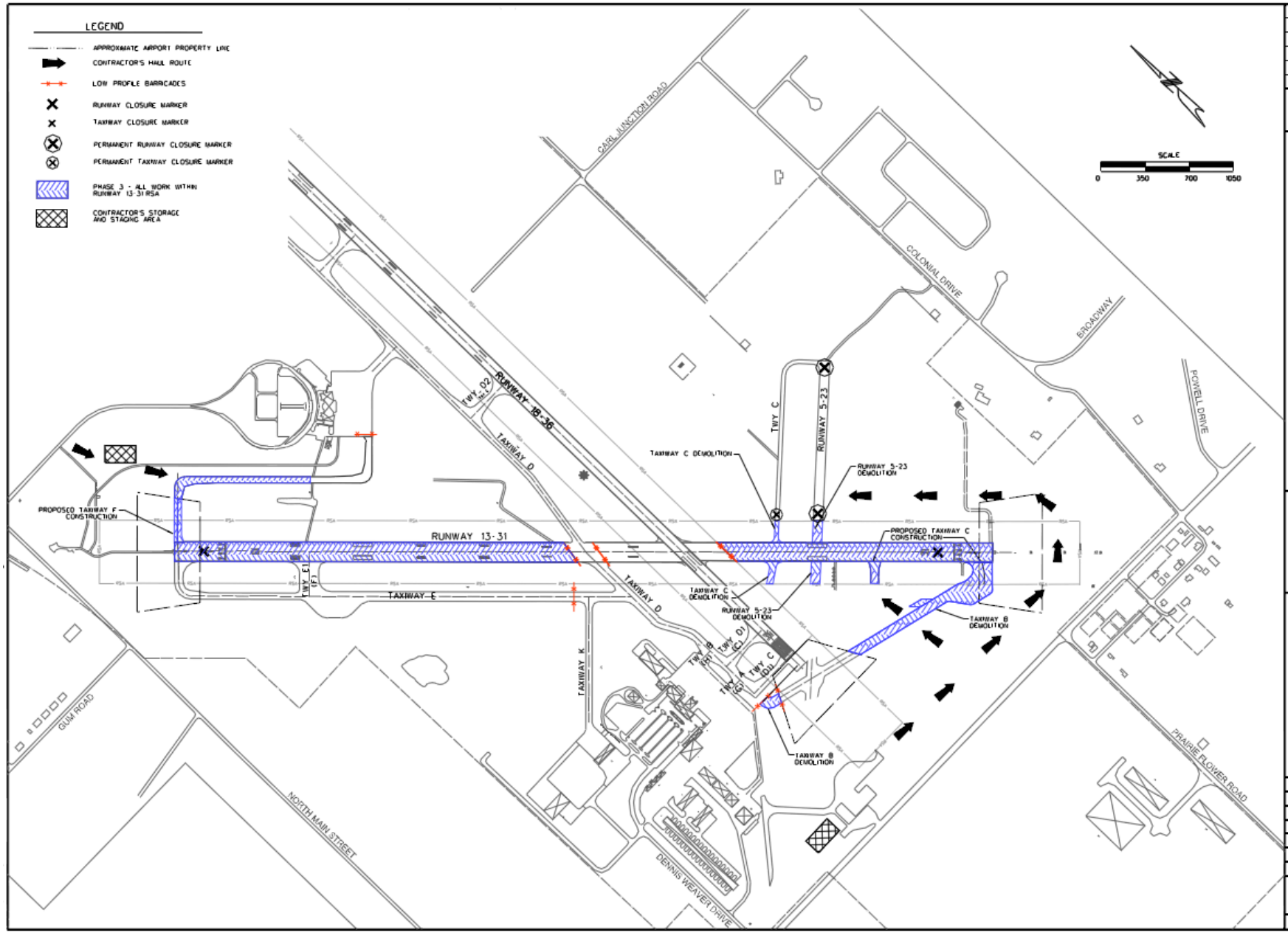
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DRAWN BY	TWM
CHECKED BY	TJS
APPROVED BY	TJS
DATE	JUNE 6, 2016
JOB No.	150020.04

CONSTRUCTION ACTIVITY PLAN - PHASE 2

SHEET 09 OF 112 SHEETS

Phase 3 – Phase Table

Phase	Days	Significant Work	Sequence Info
3	60	• Implement closure of Runway 13-31 • Demolition of existing Taxiway B • Construction of Taxiway F: within the Runway 13-31 RSA • Repair Runway 13-31 Cracks	• Phase 3 may occur simultaneously with Phase 1. • Phase 2 may not occur simultaneously with Phase 1 or Phase 4. Phase 2 must be completed before work can begin in Phase 4.



REVISIONS

NUMBER	BY	DATE
1	TWM	1/24/17

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JOPLIN REGIONAL AIRPORT
7331 MISSOURI 43
WEBB CITY, JASPER COUNTY, MO 64870

RELOCATION OF TAXIWAY C AND CONSTRUCT NEW TAXIWAY F
ADD ALT. RE-CIRCUIT RUNWAY 18-36

CMT

AIP PROJECT - 3-29-0037-0?16

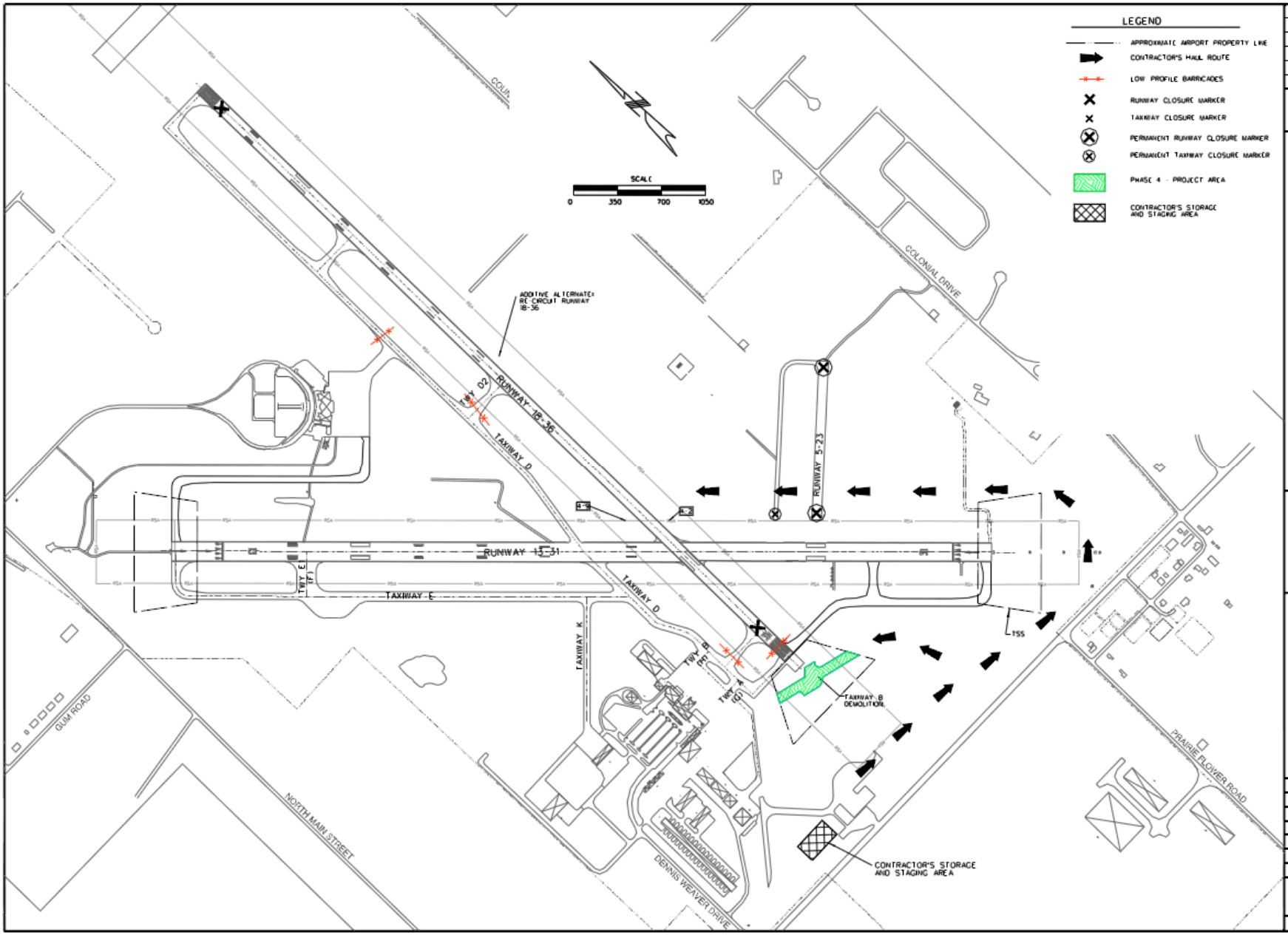
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DESIGN BY	TWM
DRAWN BY	TWM
CHECKED BY	TGS
APPROVED BY	TGS
DATE	JUNE 6, 2016
JOB No.	150624

CONSTRUCTION ACTIVITY PLAN - PHASE 3

SHEET 10 OF 112 SHEETS

Phase 4 – Phase Table

Phase	Days	Significant Work	Sequence Info
4	25	• Implement closure of Runway 18-36 • Demolition of existing Taxiway B: within the Runway 18-36 RSA and RPZ • Re-circuiting of Runway 18-36	• Phase 4 may not occur simultaneously with Phase 1, Phase 2 or Phase 3. • The work in Phase 1, Phase 2 and Phase 3 must all be completed in their entirety before Phase 4 may begin.



REVISIONS

NUMBER	BY	DATE
1	TWM	1/24/17

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JOPLIN REGIONAL AIRPORT
7331 MISSOURI 43
WEBB CITY, JASPER COUNTY, MO 64870

RELOCATION OF TAXIWAY C AND CONSTRUCT NEW TAXIWAY F
ADD ALT RE-CIRCUIT RUNWAY 18-36

CMT

AIP PROJECT - 3-29-0027-016

FILE	011_CAP_Overall P4.dgn
DESIGN BY	TWM
DRAWN BY	TWM
CHECKED BY	TGS
APPROVED BY	TGS
DATE	JUNE 6, 2016
JOB No.	130624.04

CONSTRUCTION ACTIVITY PLAN - PHASE 4

SHEET 11 OF 112 SHEETS

Proposed Schedule

Year:	2017																							
Month:	April				May					June				July				August				September		
Week:	-	-	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Phase 1			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■			
Phase 2			■	■	■	■	■	■	■	■															
Phase 3											■	■	■	■	■	■	■	■							
Phase 4																			■	■	■	■			

Anticipated project start date is: April 17, 2017

Phase 1 may be performed concurrently with Phase 2 or Phase 3 but not both concurrently

Phase 2 and 3 may not be performed concurrently

Phase 4 may not begin until Phase 1, 2 and 3 have all been completed

■ Construction Activity

Thank You