

(251) 952-4011  
FAX (251) 971 -3442

April 15, 2015

Mayor and City Council  
City of Foley  
407 East Laurel Avenue  
Foley, Alabama 36535

RE: Public Project Recommendation

Dear Mayor Koniar and City Council Members:

The City of Foley Planning Commission held a meeting on April 14, 2015 and the following action was taken:

**Agenda Item:** Public Project – Airport Drainage

**Action Taken:** Commissioner Rauch made a motion to recommend to Mayor and Council the public project airport drainage as proposed. Commissioner Rouzie seconded the motion. All Commissioners voted aye.

**Motion to recommend to Mayor and Council the public project airport drainage as proposed.**

Please let me know if you have any questions or concerns.

Respectfully,

Melissa Ringler  
Planning & Zoning Coordinator  
mringler@cityoffoley.org

**MAYOR:** John E. Koniar

**CITY ADMINISTRATOR:** Michael L. Thompson

**CITY CLERK:** Vickey Southern

**COUNCIL MEMBERS:** J. Wayne Trawick; Vera Quaite; Ralph G. Hellmich; Cecil R. Blackwell; Charles Ebert III

## **STORM DRAIN RECOMMENDATIONS**

### **CRITICAL STRUCTURES**

Structures described as “Critical” consist of various inlets, junction boxes, pipe, and outfalls at various locations within the airport property. These structures are considered to be either unsafe, or in need of immediate attention, in order to reduce risk of permanent failure of the structure. Structures 1A, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15, 18, 22, & 23, are located within the airport’s OFA for Runway 18/36 and taxiway system. These structures are responsible for carrying storm water under the existing taxiways and runway, and therefore could create potential unsafe conditions for aircraft if not addressed. Structures 33, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, & 56, are located within the taxiway between Hangar B1 and Hangar B2. Since planes and aircraft operations are located in the vicinity of these structures the deficiencies should be addressed.

A description of recommended improvements for each structure and cost associated with the repair has been provided in Appendix “C” of this report. A brief summary of the estimated cost to repair and/or replace structures described as Critical is shown in Table 1.

<b>CRITICAL STRUCTURES</b>		
<b>ID#</b>	<b>Drainage Structure Description</b>	<b>Estimate</b>
1A	EARTHEN DIVERSION BERM	\$5,000.00
2, 3, & 4	Concrete Drop Inlet, 15" Concrete Pipe, and 15" Headwall	\$36,500.00
5, 6, & 7	Concrete Drop Inlet, 18" Concrete Pipe, and 18" Headwall	\$34,000.00
8, 9, & 10	Concrete Drop Inlet, 15" x 22" Corrugated Metal Pipe, and Buried Junction Box	\$38,500.00
11 & 12	18" Concrete Pipe with Headwall	\$68,450.00
15	48" Concrete Headwall	\$8,000.00
18	23" X 36" Concrete Arch Pipe (Beneath Runway)	\$93,000.00
22	26" x 44" Concrete Headwall	\$5,400.00
23	26" x 44" Concrete Headwall	\$5,400.00
33	12" PVC Storm Drain Pipe	\$3,800.00
45-56	Concrete Drop Inlet, 15" Concrete Pipe, and 15" Headwall	\$59,000.00
	Sub-Total	\$357,050.00
	Engineering at 20%	\$71,410.00
	<b>Total for Critical Structures</b>	<b>\$428,460.00</b>

**Table 1 (Approximate Cost to Repair or Replace Critical Structures)**

### **NEED IMPROVEMENT STRUCTURES**

Structures described as “Needs Improvement” consist of various inlets, junction boxes, pipes, and outfalls at various locations within the airport property. These structures at the time of inspection were found to be functioning properly, but were in need of minor maintenance or minor improvements. Structure 17, and 19 are located within the OFA of Runway 18/36. These structures are in need of basic maintenance in the form of backfilling minor washing in the area installing permanent vegetation. Structures 25, 30, 36, 38, and 43 are not located within OFA. These structures should be evaluated periodically to judge changes in conditions and if those changes require immediate attention. A description of possible solutions for each structure and cost associated with the repair has been provided in Appendix “D” of this report. A brief summary of the estimated cost to repair and/or replace structures described as Needs Improvement is shown in Table 1. A brief summary of the estimated cost is shown in Table 2.



NEEDS IMPROVEMENT		
ID#	Drainage Structure Description	Estimate
17	23" X 36" Headwall	\$1,500.00
19	23" X 36" Headwall	\$2,100.00
25	26" x 44" Headwall and Slope (Beyond Fence)	\$1,700.00
30	18" x 29" Outfall	\$1,600.00
36	Standard Yard Inlet	\$1,500.00
38	18" Concrete Headwall	\$700.00
43	18" Concrete Headwall	\$11,000.00
Sub-Total		\$20,100.00
Engineering at 20%		\$4,020.00
<b>Total for Needs Improvement Structures</b>		<b>\$24,120.00</b>

Table 2 (Approximate Cost to Repair or Replace Needs Improvement Structures)

### SATISFACTORY STRUCTURES

Structures described as "Satisfactory" need not be considered for replacement at this time. These structures were in an acceptable operating condition at the time of this study but should be inspected annually and maintained as needed to prevent problems.



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

Airports District Office  
100 West Cross Street, Suite B  
Jackson, Mississippi 39208-  
2307

March 20, 2015

Ms. Rachel Keith  
Purchasing Agent/Airport Manager  
City of Foley  
Post Office Box 1750  
Foley, AL 36536

Re: AIP Project in FY 2015

Dear Ms. Keith:

This fiscal year, we expect to fund the following project for \$160,705.00 at the Foley Municipal Airport and are asking that you get started now. The planned Federal participation rate is 90 percent.

Project Items
Improve airport drainage, Phase 1

Safety Plan: Your proposed FY 2015 project includes development on the airside of your airport and will require submission of a safety plan. If you have not already submitted your safety plan, please do so as soon as possible. You should file your plan electronically at <https://oeaaa.faa.gov/oeaaa/external/portal.jsp>. Make sure you indicate that the construction is "on airport" so it will be coordinated with this office.

Plans and Specifications: A certification of the plans and specifications is required for all construction and equipment purchase projects. A review of the plans and specifications will be required for certain construction and equipment purchase projects,. Your program manager will coordinate with you when plans and specifications review is required.

SAM Registration: All grant recipients must be registered in the System for Award Management (SAM), formerly CCR, and the correct DUNS number shown on all project applications. Registration must be renewed annually at <https://www.sam.gov>. You are registered in SAM under DUNS 072630544. Your registration in SAM is current to February 10, 2016.

**It is important that you take all actions that will enable you to submit a grant application for your project by July 15, 2015**, so please work closely with your Program Manager, Mr. Kevin L. Morgan at 601-664-9891.

Sincerely,

Rans D. Black  
Manager

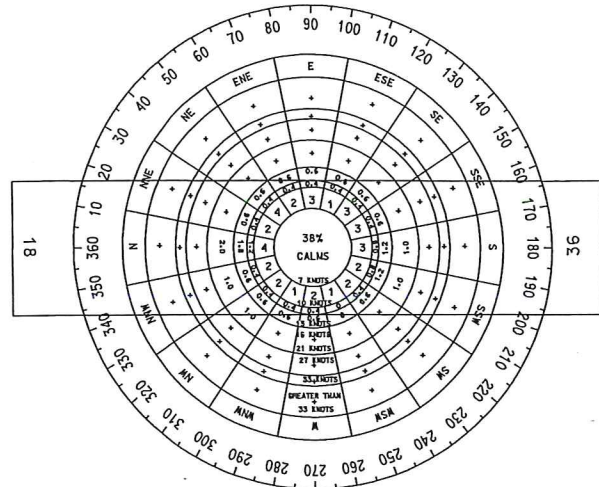
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Mr. Bobby Odom  
ALDOT



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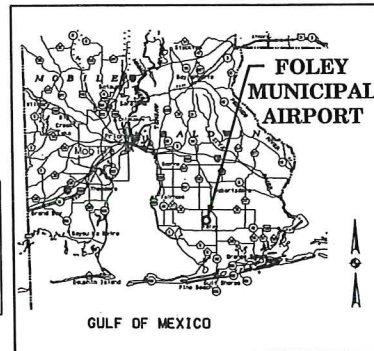
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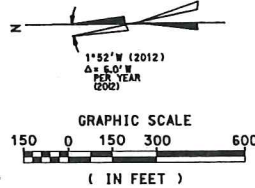


WIND ROSE

SOURCE: U.S. WEATHER BUREAU, CLIMATOGRAPHY OF THE UNITED STATES  
STATION NO.: NO. 82-1 FOR BATES FIELD, MOBILE, ALABAMA  
LOCATION: 2 MILES NORTHWEST, CITY OF FOLEY, ALABAMA  
PERCENTAGE OF WIND COVERAGE TO 10 KNOTS CROSSWIND COMPONENT -- 94.7%  
PERCENTAGE OF WIND COVERAGE TO 13 KNOTS CROSSWIND COMPONENT -- 97.9%  
PERCENTAGE OF WIND COVERAGE TO 16 KNOTS CROSSWIND COMPONENT -- 99.9%  
PERCENTAGE OF WIND COVERAGE TO 20 KNOTS CROSSWIND COMPONENT -- 100.0%  
PERIOD OF RECORD: 1962



LOCATION MAP  
SCALE: N.T.S.



CONSTRUCTION NOTICE  
REQUIREMENT  
TO PROTECT OPERATIONAL SAFETY  
AND FUTURE DEVELOPMENT, ALL  
PROPOSED CONSTRUCTION ON THE  
AIRPORT MUST BE COORDINATED BY  
THE AIRPORT OWNER WITH THE FAA  
AIRPORTS DISTRICT OFFICE PRIOR TO  
CONSTRUCTION. FAA'S REVIEW TAKES  
APPROXIMATELY 60 DAYS.

BUILDING DATA		
NO.	STRUCTURE	ELEVATION
B1	ALUMINUM HANGAR	69.64'
B2	T. HANGAR	69.65'
B3	T. HANGAR	69.83'
B4	PUMP HOUSE	71.35'
B5	TERMINAL & HANGAR	72.09'
B6	STORAGE BUILDING	70.00'
B7	T. HANGAR	63.00'

VIOLATIONS TO FAR PART 77 SURFACES			
	DESCRIPTION	ELEVATION VIOLATION	PROPOSED DISPOSITION
V1	FERN AVE.	76.46' 4.66'	DISPLACE Rwy 36 THRESHOLD 125'
V2	FERN AVE.	73.19' 1.28'	

RUNWAY PROTECTION ZONE DIMENSIONS		
Rwy END	EXISTING	FUTURE/ULTIMATE
18	1000' L X 500' W X 700' DW	1000' L X 500' W X 700' DW
36	1000' L X 500' W X 700' DW	1000' L X 500' W X 700' DW

RUNWAY SAFETY AREA DIMENSIONS		
Rwy END	EXISTING	FUTURE/ULTIMATE
18	150' W X 300' BEYOND END OF RUNWAY	150' W X 300' BEYOND END OF RUNWAY
36	150' W X 300' BEYOND END OF RUNWAY	150' W X 300' BEYOND END OF RUNWAY

RUNWAY OBJECT FREE AREA DIMENSIONS		
Rwy END	EXISTING	FUTURE/ULTIMATE
18	500' W X 300' BEYOND END OF RUNWAY	500' W X 300' BEYOND END OF RUNWAY
36	500' W X 300' BEYOND END OF RUNWAY	500' W X 300' BEYOND END OF RUNWAY

RUNWAY OBSTACLE FREE ZONE DIMENSIONS		
Rwy END	EXISTING	FUTURE/ULTIMATE
18	250' W X 200' BEYOND END OF RUNWAY	250' W X 200' BEYOND END OF RUNWAY
36	250' W X 200' BEYOND END OF RUNWAY	250' W X 200' BEYOND END OF RUNWAY

AIRPORT DATA			
	EXISTING	FUTURE	ULTIMATE
AIRPORT REFERENCE POINT	N30°25'39.64"	SAME	N30°25'33.20"
COORDINATES (NAD 83 WEST)	W87°42'03.46"	SAME	W87°42'03.47"
MEAN MAX. TEMP. HOTTEST MONTH	91.2°F	SAME	SAME
AIRPORT ELEVATION	74.54'	73.49'	78.00'
NAVIGATIONAL AIDS	NDB, GPS	SAME	SAME

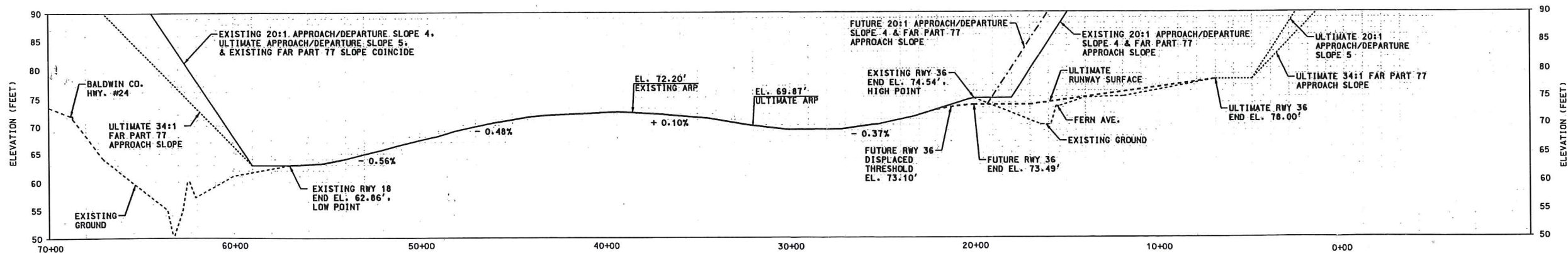
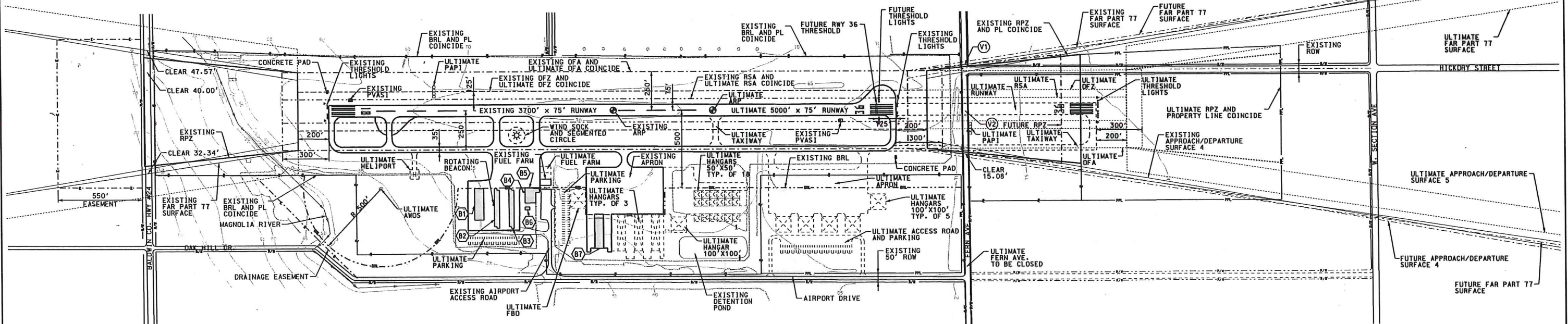
RUNWAY DATA 1836			
	EXISTING	FUTURE	ULTIMATE
AIRPORT REFERENCE CODE	8-11	SAME	SAME
CRITICAL AIRCRAFT	BEECH SUPER KING A18B200	SAME	CITATION III
APPROACH VISIBILITY MINIMUMS	720' & 1 MI.	SAME	400' & 1 MI.
RUNWAY LENGTH	3,700'	SAME	5,000'
RUNWAY WIDTH	75'	SAME	SAME
APPROACH SLOPE	20:1/20:1	SAME	SAME
APPROACH TYPE	NON-PRECISION	SAME	SAME
MARKINGS	NON-PRECISION	SAME	SAME
LIGHTING	MIRL, MITL	SAME	SAME
APPROACH AIDS	PVASI	PAPI	PAPI/REIL
% WIND COVERAGE (10 KNOTS)	94.7%	SAME	SAME
% WIND COVERAGE (13 KNOTS)	97.9%	SAME	SAME
% WIND COVERAGE (16 KNOTS)	99.9%	SAME	SAME
% WIND COVERAGE (20 KNOTS)	100.0%	SAME	SAME
TRUE RUNWAY BEARING	N00°02'59"E	SAME	SAME
EFFECTIVE GRADIENT	0.32%	0.29%	0.30%
PAVEMENT CONSTRUCTION	ASPHALT	SAME	SAME
PAVEMENT STRENGTH	28,000 LBS.	SAME	60,000 LBS.
RUNWAY END COORDINATES (NAD 83 WEST)	Rwy 18 N30°25'57.94" W87°42'03.45"	SAME	SAME
	Rwy 36 N30°25'21.33" W87°42'03.48"	N30°25'22.56" W87°42'03.49"	N30°25'08.46" W87°42'03.49"
RUNWAY END ELEVATIONS	Rwy 18 62.86'	SAME	SAME
	Rwy 36 74.54'	73.49'	78.00'

A.I.P. NO.	PROJECT NO.	SHEET NO.
3-01-0031-012-2014	036016.07	2

LEGEND		
	EXISTING	ULTIMATE
GRADE CONTOURS	TO	NOT SHOWN
AIRPORT PROPERTY LINE	---	---
EASEMENT	---	SAME
BUILDING RESTRICTION LINE (BRL)	---	SAME
FENCE LINE	---	SAME
THRESHOLD LIGHTS	++++	++++
REIL	---	---
PVASI	---	N/A
PAPI	---	---
BUILDING	---	---
PAVEMENT	---	---
PECAN TREE	---	SAME
WOODS	---	SAME

EXISTING DECLARED DISTANCE TABLE				
	TORA	TODA	ASDA	LDA
Rwy 18	3700'	3700'	3700'	3700'
Rwy 36	3700'	3700'	3700'	3700'

FUTURE DECLARED DISTANCE TABLE				
	TORA	TODA	ASDA	LDA
Rwy 18	3575'	3575'	3700'	3700'
Rwy 36	3700'	3700'	3700'	3575'



RUNWAY 18-36 PROFILE

SCALE: HORIZ.: 1"=300'  
VERT.: 1"=10'

SPONSOR APPROVAL

NO.	DATE	DESCRIPTION	BY
11/14	MODIFIED FOR PROJECT 036016.07	B.R.O.	

DESIGNED: M.J.C.	CHECKED: B.R.O.
DETAILED: J.R.C.	CHECKED: G.B.M.
SCALE: AS NOTED	DATE: 01/04/13

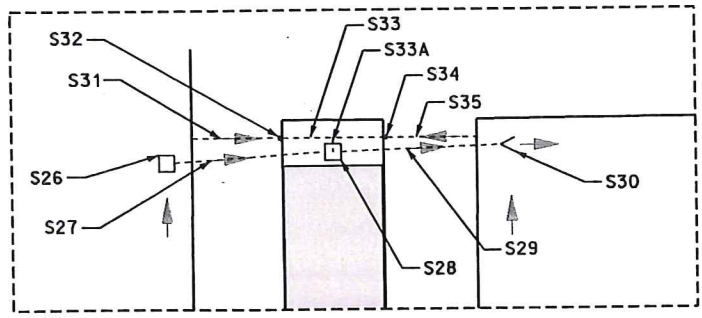
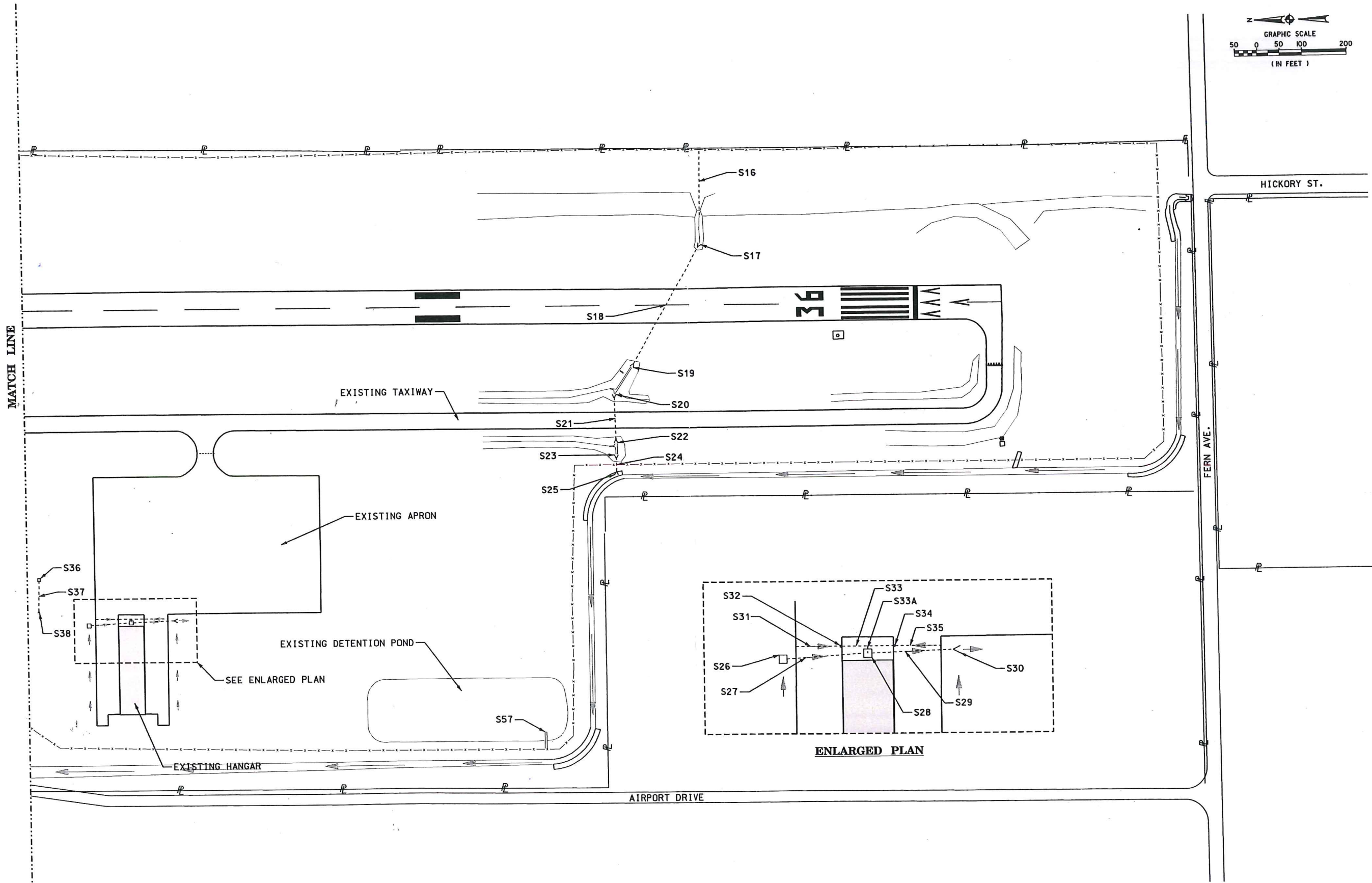
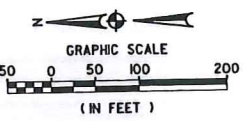
**VOLKERT**

FOLEY MUNICIPAL AIRPORT  
FOLEY, ALABAMA

AIRPORT LAYOUT PLAN	
AIRPORT DRAINAGE STUDY	PROJECT NO. 036016.10 SHEET NO.



A.I.P. NO.	PROJECT NO.	SHEET NO.
3-01-0031-012-2014	036016.07	



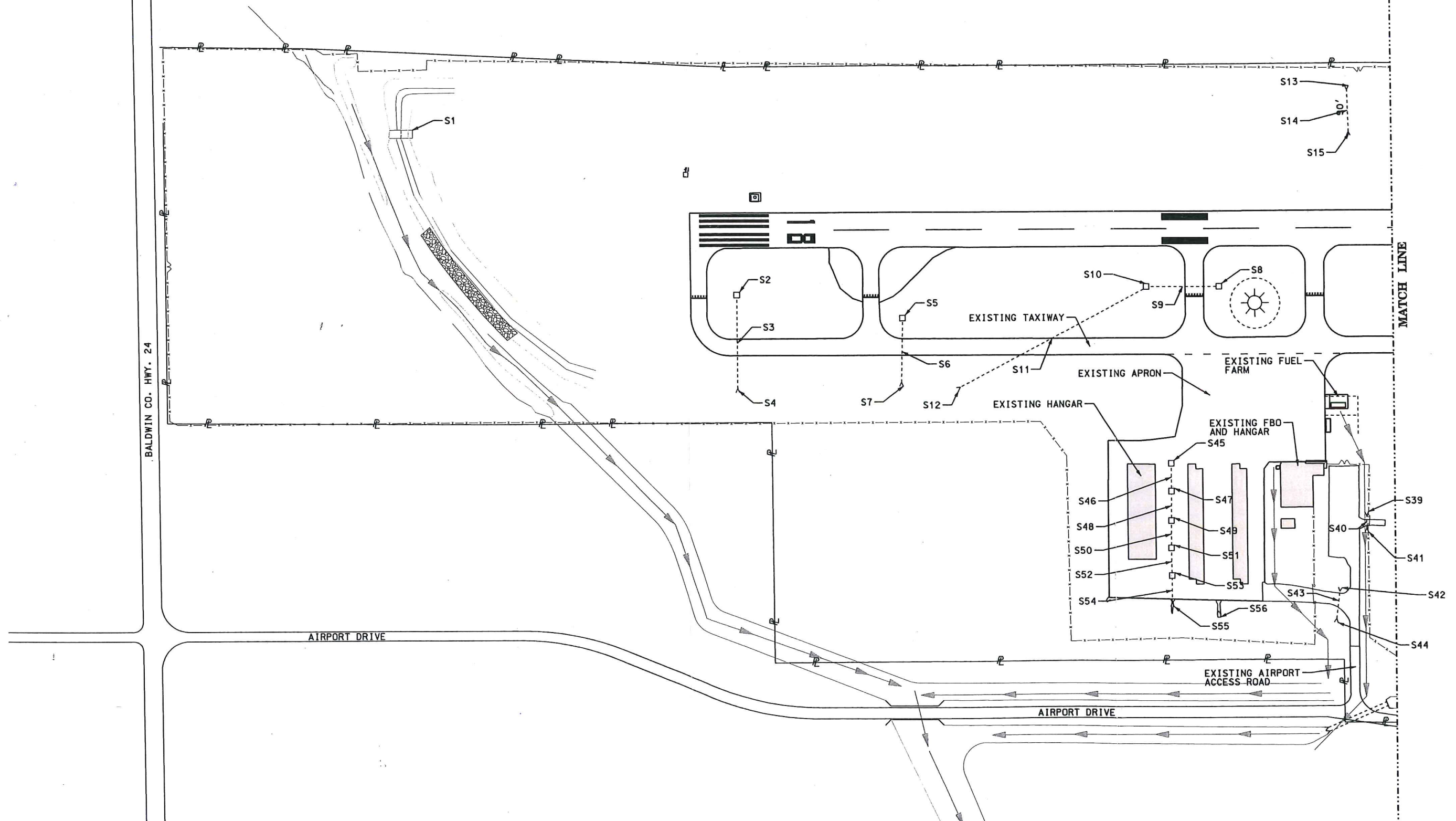
				DESIGNED: G.B.M.	CHECKED: H.Z.E.
				DETAILED: J.R.C.	CHECKED: G.B.M.
NO.	DATE	DESCRIPTION	BY	SCALE: AS NOTED	DATE: 11/00/14
REVISIONS					

**Volkert**

FOLEY MUNICIPAL AIRPORT  
FOLEY, ALABAMA

PROJECT LAYOUT	
SHEET 2 OF 2	
AIRPORT DRAINAGE STUDY	PROJECT NO. 036016.07 SHEET NO.





				DESIGNED: G.B.M.	CHECKED: H.Z.E.		FOLEY MUNICIPAL AIRPORT FOLEY, ALABAMA	PROJECT LAYOUT SHEET 1 OF 2		
				DETAILED: J.R.C.	CHECKED: G.B.M.			AIRPORT DRAINAGE STUDY	PROJECT NO. 036016.07 SHEET NO.	
NO.	DATE	DESCRIPTION	BY	SCALE: AS NOTED					DATE: 11/00/14	