

# WORKING PAPER TWO

**APRIL 2017** 

TERMINAL RENOVATION AND IMPROVEMENT PROJECT





### Working Paper One

Chapter A - Background Information and Inventory

- Chapter B Forecasts of Aviation Activity
- Chapter C Terminal Area Facility Requirements

### Working Paper Two

Chapter D – Terminal Development Concepts





### Planning Activity Levels (PALs)

PAL/Phase	Enplanement Levels	Selected Scenario Corresponding Year	FAA TAF Scenario Corresponding Year
I	700,000	2017	2017
Ш	900,000	2024	2028
ш	1,100,000	2029	>2035
IV	1,300,000	2034	>2035
SOURCE: Mead & Hunt			





### Terminal: Program Summary

Area (Square Feet)  PAL/Phase	Public: Secure Area	Public: Checkpoint (Number of Lanes)	# LANES	Public: Bag Claim & Car Rental (Arrivals Lobby)	Public: Ticketing & Bag Screening (Departures Lobby)	Nonpublic: Back of House & Tenants	Building Support: Structure, Utilities & Chases	Totals
Existing	71,500	5,535	3	18,830	15,570	28,235	36,830	176,500
I	72,958	6,312	3	27,568	21,781	39,381	51,495	219,495
н	89,411	8,416	3	35,122	27,434	46,180	58,798	265,361
ш	105,865	8,416	3	42,685	33,055	54,874	67,054	311,949
IV	123,351	10,520	5	50,259	38,649	62,008	79,950	364,737

SOURCE: Mead & Hunt

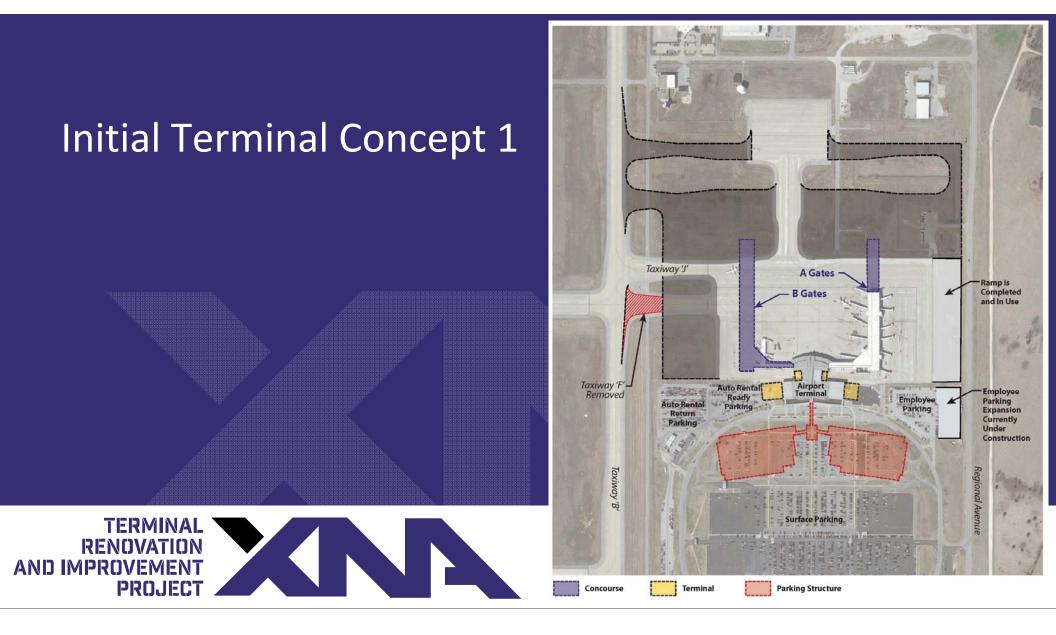




### Working Paper Two, Chapter D Terminal Development Concepts

- Existing Terminal
- Initial Terminal Building Concepts Long Term
- Refined Concepts
- Additional Considerations
- Preliminary Project List and Phasing







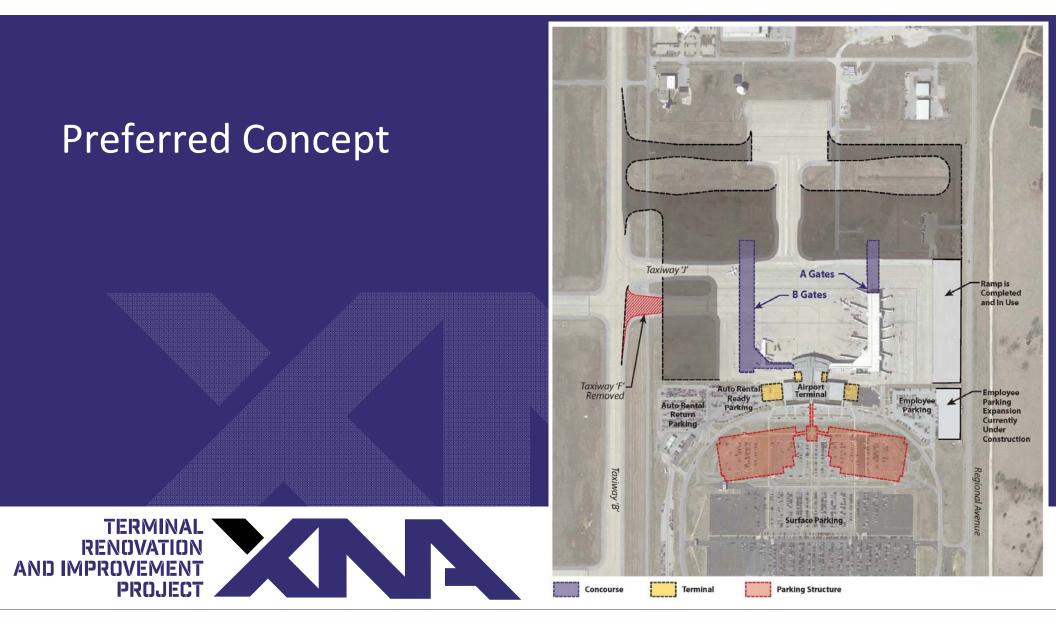


## Initial Terminal Concepts Screening Matrix

### Preferred Concept: Concept 1

### Refined Concepts: Conceptual Development Plan (CDP)

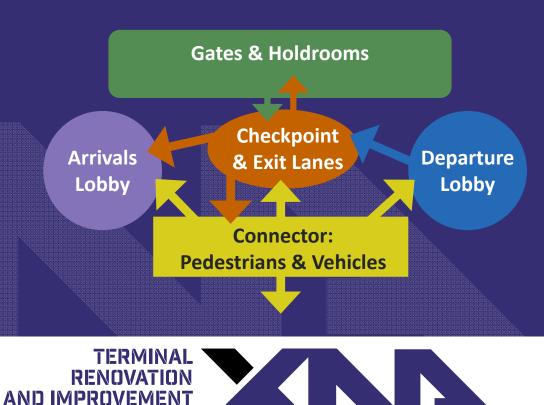
	Initial Concept 1	Initial Concept 2	Initial Concept 3
Passenger Experience			
Concessions not split between concourses			$\checkmark$
Minimize Walking Distance		$\checkmark$	V
Intuitive wayfinding	$\checkmark$	$\checkmark$	$\checkmark$
Enhanced level of service	V		$\checkmark$
Operational Efficiency			
Enhances operations and maintenance	$\checkmark$	V	
Minimizes Impact of Construction Phasing	M	$\checkmark$	×
Improves airport and airline efficiency	$\checkmark$		
Meets programmatic requirements and addresses deficiencies	$\checkmark$	$\checkmark$	$\checkmark$
Takes full advantage of existing aircraft parking apron	$\checkmark$		×
Sustainability			
Reuses existing facilities to the extent practical	$\square$		X
Maintains existing infrastructure		$\checkmark$	×
Potential to promote natural light and sense of space	$\checkmark$		
Promotes long term financial viability/economic growth			$\checkmark$
Implementation/Phasing			
Minimizes impact to passengers			×
Minimized impact to operations	V	V	×
Allows for incremental construction to accommodate PALs	V	V	×
Compatibility with other Airport Planning Documents			
Aligns with SMP goals and objectives	V	×	×
Integrates with 2017/2018 Parking Structure	Ø	V	V



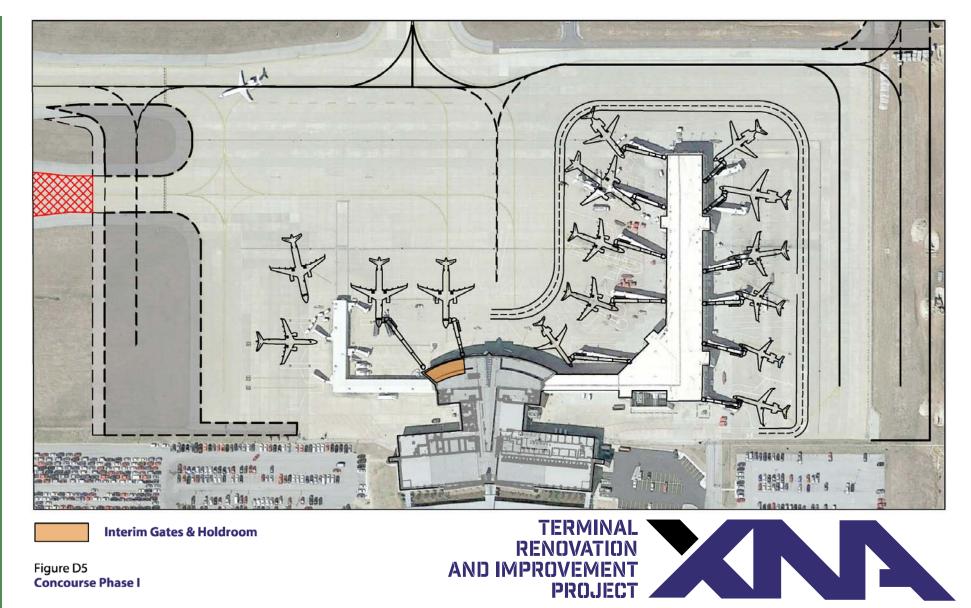


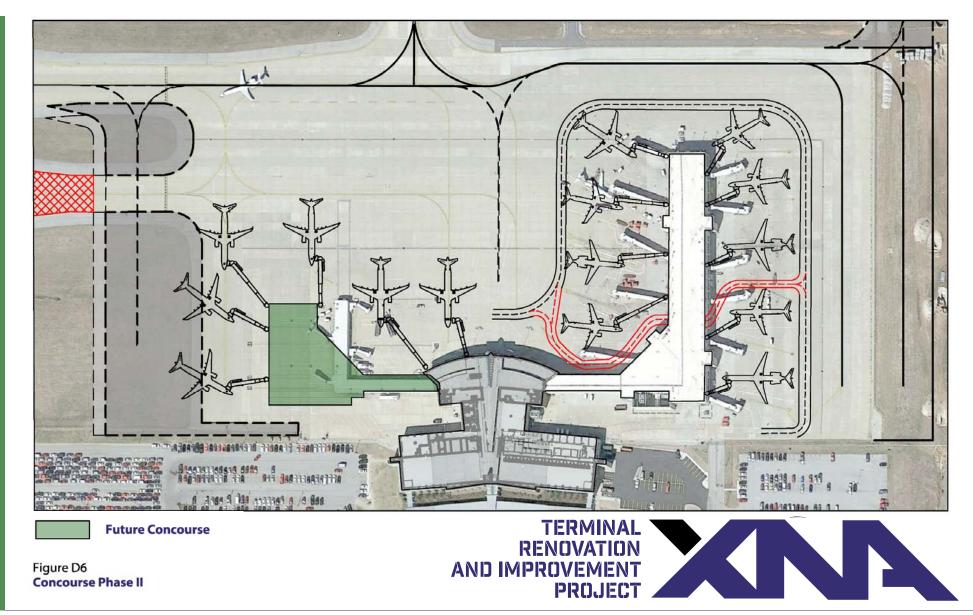
### **Terminal: XNA Passenger Flow Diagram**

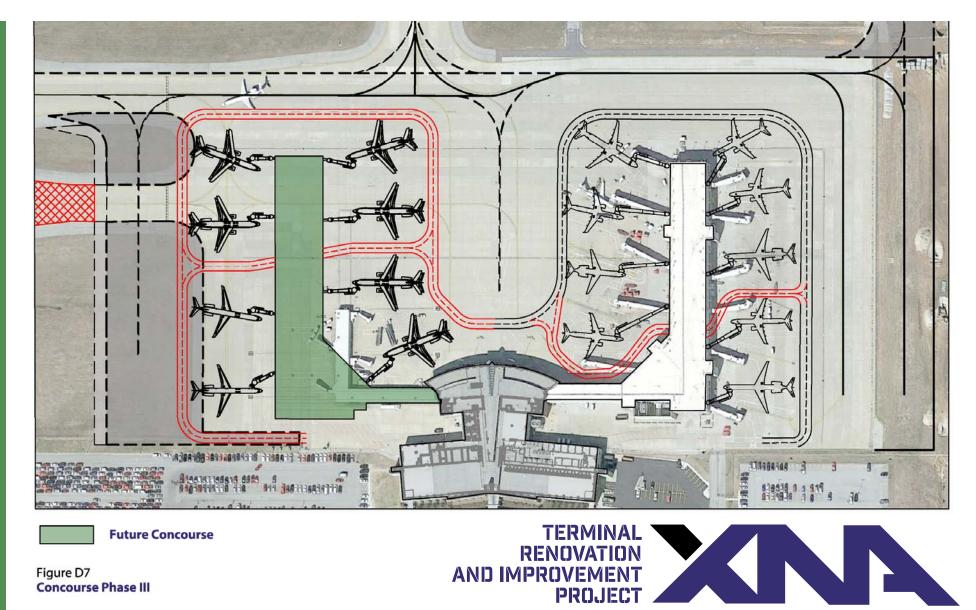
Gates & Concourse
Checkpoint & Exit Lanes
Pedestrian & Vehicle Circulation
Arrivals Lobby
Departure Lobby

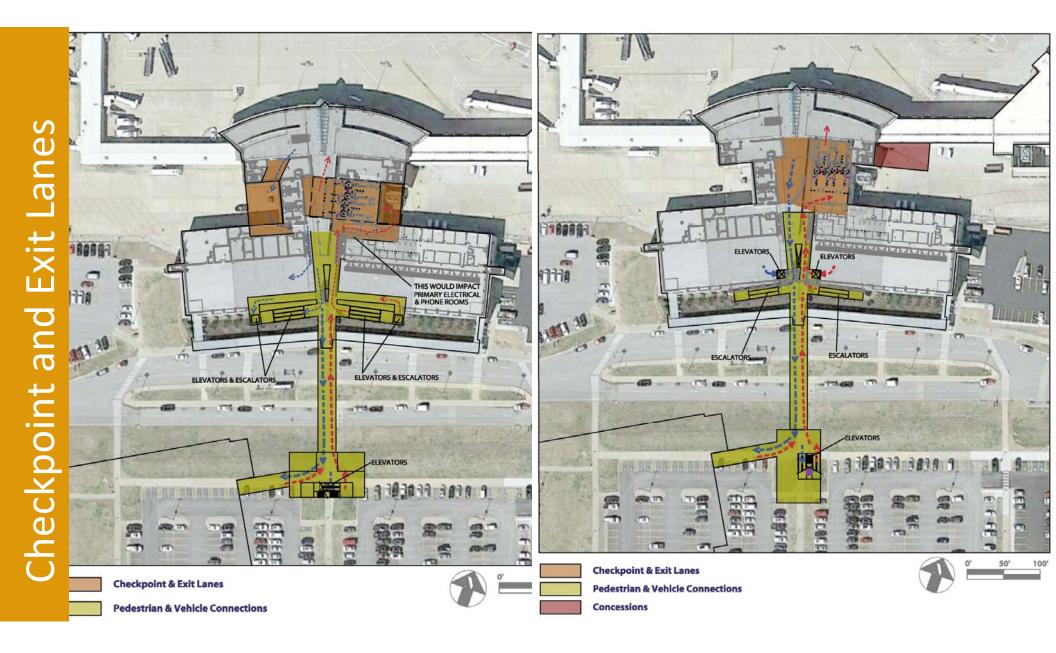


PROJECT

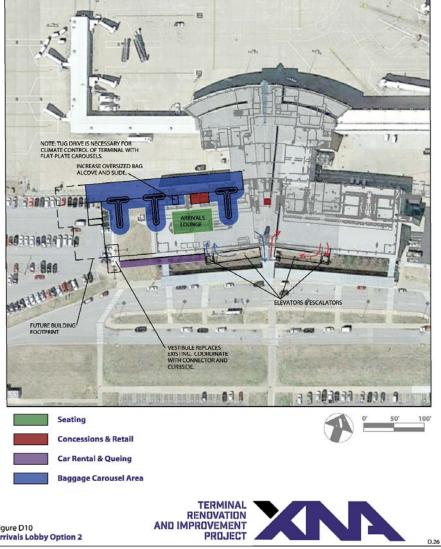








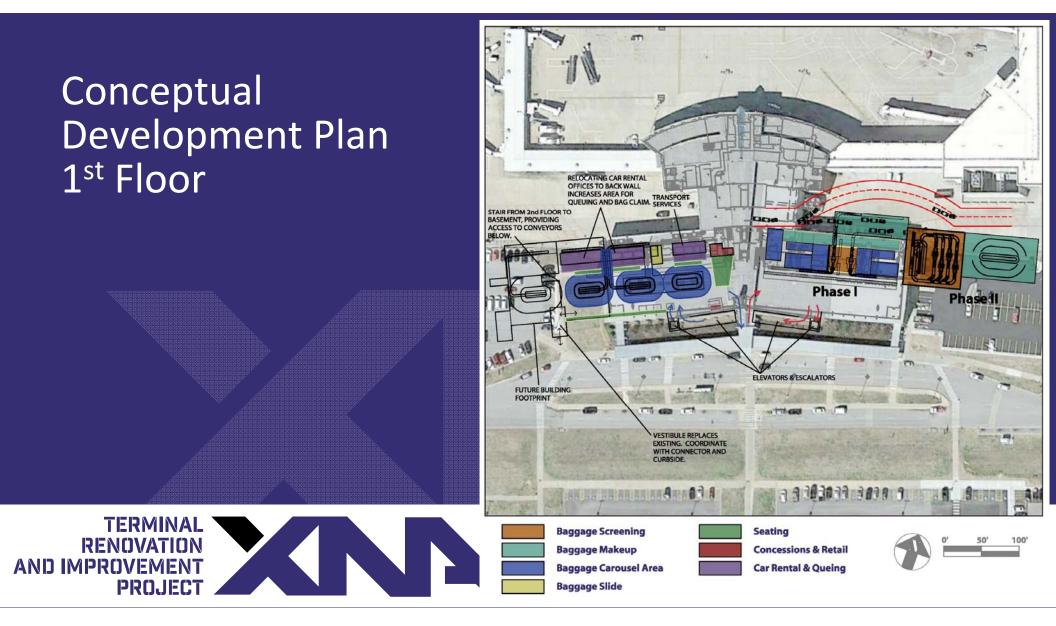
### 8 an 日 11 RELOCATING CAR RENTAL OFFICES TO BACK WALL INCREASES AREA FOR QUEUING AND BAG CLAIM. STAIR FROM 2nd FLOOR TO BASEMENT, PROVIDING ACCESS TO CONVEYORS 0 7 da F BELOW. A.a. 33803333988 883338838777A 33384397 8 888 and a anstituten. 4.88 33113333 412.4 ELEVATORS & ESCALATORS FUTURE BUILDING FUTURE BUILDING -wittent . VESTIBULE REPLACES EXISTING. COORDINATE WITH CONNECTOR AND CURBSIDE. Seating **Baggage Carousel Area** 50' 100 Seating **Concessions & Retail Baggage Slide Car Rental & Queing** TERMINAL RENOVATION AND IMPROVEMENT PROJECT Figure D10 Figure D10 Arrivals Lobby Option 1 Arrivals Lobby Option 2 D.25



# Departures Lobby



D.29



### Conceptual Development Plan 2<sup>nd</sup> Floor

TERMINAL

PROJECT

RENOVATION

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