



C

Construction Tables

This page intentionally left blank.

**104th Fighter Wing at Westfield-Barnes Regional Airport
(BAF)**

This page intentionally left blank.

Table MA-1 Proposed Construction and Modification for the F-15EX Beddown at the 104 FW Installation at BAF

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
1.1 (Option 1) 1.2 (Option 2) 1.3 (Option 3)	Renovate/Construct Wing HQ	<p>Project would either renovate the existing Wing HQ (Building 1) or construct a new Wing HQ at one of two optional locations.</p> <p>Option 1 – Renovate Wing HQ, existing Building 1</p> <p>Option 2 – Construct a 16,900 SF Wing HQ at the Building 20 location. The new building would include the following: Reserve Forces General Training Support Honor Guard (4,600 SF) and Reserve Forces Operational Training (12,300 SF). The project would also include 13,800 SF for parking. The project would also involve demolishing the current Wing HQ (Building 1) (22,400 SF) and returning it to green space and demolishing Building 20.</p> <p>Option 3 – Construct a 42,800 SF Wing HQ. The new building would consolidate administrative and support functions including the following: Reserve Forces General Training Support Honor Guard (2,600 SF), Services Flight (4,900 SF), Reserve Forces Operational Training (16,500 SF), Dining and Training Facility (8,500 SF), Physical Fitness (2,400 SF), and Deployment Processing Center (7,900 SF). The project would also include approximately 1,000 LF of utilities (water, sewer, stormwater and electric/telecom) and parking for 150 spots (approximately 59,000 SF including driving aisles). The entire project would be constructed on undeveloped land (in wooded area of newly acquired parcel by new Entry Control Point Gatehouse & Road). The project would also involve demolishing the current Wing HQ (Building 1) (22,400 SF) and returning it to green space.</p>	FY 2027	<p>Option 2- 30,700 SF (entire new construction)</p> <p>Option 3 – 102,800 SF (entire new construction)</p>	<p>Option 2- 30,700 SF (entire new construction) minus 22,400 SF new green space = 8,300 SF</p> <p>Option 3 – 102,800 SF (entire new construction) minus 22,400 SF new green space = 80,400 SF</p>
2	Alter Supply Warehouse (Building 54)	Project would implement internal modifications to improve storage solutions at the Supply Warehouse (Building 54).	FY 2025	Internal modifications	N/A
3	Construct Taxiway Juliet	Project would construct a 33,600 SF new taxiway including shoulder areas to remove aircraft taxiing choke point.	FY 2026	33,600 SF	33,600 SF

Table MA-1 Proposed Construction and Modification for the F-15EX Beddown at the 104 FW Installation at BAF

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
4	Renovate POL Shop (Building 33)	Project would implement internal modifications to improve POL testing and administration in POL Shop (Building 33).	FY 2026	Internal modifications	N/A
5	Renovate Avionics Shop (Building 26)	Project would implement internal modifications and repair fire suppression and HVAC systems in Avionic Shop (Building 26).	FY 2026	Internal modifications	N/A
6	Repair MNS	Project would add external mass notification and occupied building notifications to comply with MNS criteria. The project would add 2 to 3 poles with 2-foot diameter concrete pads. The locations would be based on a noise study and are not shown on Figure MA2.1-3.	FY 2027	10 SF	10 SF
7	Construct Vehicle Operations Parking Sheds	Project would demolish existing parking sheds (Buildings 56 and 58) and build new covered parking (Building 56). The project would reconfigure the vehicle operations yard to increase efficiency.	FY 2027	N/A	N/A
8	Construct Redundant Utilities	Project would add redundant feeds for power, water, and natural gas on existing paved areas. a. Telecomm: 3,500 LF b. Power: 4,000 LF c. Water: 400 LF d. Gas: 400 LF	FY 2030	8,300 LF	N/A
9	Renovate JISCC Storage	Project would implement internal modifications to improve storage for Communications Flight JISCC mission.	FY 2028	Internal modifications	N/A

Table MA-1 Proposed Construction and Modification for the F-15EX Beddown at the 104 FW Installation at BAF

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
10.1 (Option 1) 10.2 (Option 2)	Construct Running Track	Project would construct a new 0.25-mile running track (approximately 17,000 SF). Option 1 - The track would be constructed on undeveloped land west of TSG Austin C Cooper Road and north of a paved parking lot by the Aviation Readiness Support Facility and the current Main Gate. This option is dependent on a real estate agreement with the Army National Guard. Option 2 – The project would be located in the wooded area on the east side of Building 3 and the parking lot.	FY 2033	17,000 SF	17,000 SF
11	Alter AAS Signage	Project would move existing AAS signs in compliance with FAA criteria. Project would clear the requirement for the existing airfield waiver. Signs would be located on either side of the runway on an 18-inch diameter sonna tube.	FY 2029	N/A	N/A
12	Repair Base Roads and Parking Lots	Project would repair multiple parking lots and base roads to modernize paved infrastructure on the installation. The project would involve repairing approximately 50 percent of the parking lots and roads.	FY 2032	N/A	N/A
13	Construct Base Engineer Storage Yard	Project would construct an outdoor, uncovered storage 5,400 SF gravel yard for base engineer equipment and materials.	FY 2033	5,400 SF	N/A
14	Alter Civil Engineer Building (Building 40)	Project would reconfigure internal Civil Engineer Administrative area in Building 40 and add a 4,300 SF addition for the Emergency Management functions to the facility. Emergency Management functions are currently located in Building 8.	FY 2029	4,300 SF	4,300 SF
15.1 (Option 1) 15.2 (Option 2)	Add/Alter Dining Facility (Building 3)	Project would add/alter the Dining Facility (Building 3). Option 1 – Construct a 2,400 SF gym as an addition to Building 003. Demolish Building 12 (9,400 SF) and return it to green space. Option 2 – Renovate 12,915 SF of Building 3 to include a gym.	FY 2029	Option 1 – 2,400 SF	Option 1 – 2,400 SF minus 9,400 SF of new green space = - 7,000 SF

Table MA-1 Proposed Construction and Modification for the F-15EX Beddown at the 104 FW Installation at BAF

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
16.1 (Option 1) 16.2 (Option 2)	Construct Flight Simulator Facility	Project would construct a new 20,000 SF flight simulator that includes all utilities required for the structures. Option 1 – Construct the facility north of Building 25 over Building 36 and Building 37 footprint. Part of the new facility will be constructed over approximately 6,400 SF of grassy area. (Preferred) Option 2 – Construct the facility west of Building 29 in the existing paved parking lot.	FY 2029	20,000 SF	Option 1 - 6,400 SF
17	Repair HAZMAT HVAC (Building 52)	Project would upgrade the HVAC system to meet the environmental requirements for storage of paint specific to the F-15EX. The HVAC system would be located on an existing paved area outside of Building 52.	FY 2024	N/A	N/A
18	ADAL WLT Door (Building 23)	Project would modify existing WLT facility (Building 23) for new access door and ramp on the existing paved area to accommodate weapons maintenance requirements.	FY 2024	Internal modification/ Exterior modification on existing paved area for the ramp	N/A
19	Demo Liquid Oxygen Facility (Building 38 & 39)	Project would demolish the overhang structures and facilities in POL Yard, but the existing pads would remain in place.	FY 2030	N/A	N/A
20	Repair Munitions Administration Facility (Building 65)	Project would repair and reconfigure the Munitions Administration facility (Building 65) to provide increased space for munitions trailer maintenance to accommodate increase in munitions for air-to-ground mission training. Includes modifications to HVAC, fire suppression, and utilities as required.	FY 2028	Internal repair	N/A

Table MA-1 Proposed Construction and Modification for the F-15EX Beddown at the 104 FW Installation at BAF

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
21	Construct PL3 Fence Line	Project would construct a physical security fence line (approximately 1,800 LF) and access points to consolidate PL3 resources areas and reduce SFS personnel requirements. The project would be completed after most major construction in affected area is completed.	FY 2029	1,800 LF	1,800 LF
22.1 (Option 1) 22.2 (Option 2)	Construct Temporary Facility (Squadron Operations) (Building 25)	Project would provide a temporary squadron operations area (approximately 3,000 SF) until completion of Squadron Operations modifications (Project 29, Building 25). The project would involve temporary trailers situated on the existing paved areas. Option 1 – Between Buildings 25 and 36 (paved area) Option 2 – East of Building 25 and the ramp (paved road)	FY 2024	N/A	N/A
23	Investigative Study for Squadron Operations (second floor and Simulator location) (Building 25)	Project would conduct an engineering study to determine best course of action for future projects. The project would study site locations for Squadron Operations (Projects 22.1 and 22.2) and Flight Simulator (Projects 16.1 and 16.2) projects. Option 1 – single-story addition. Option 2 – two-story addition.	FY 2024	N/A	N/A
24	Add HVAC (Building 37)	Project would add HVAC system for computers in Tool Crib facility (Building 37). The HVAC system might be pad mounted (18 SF) on a grassy area immediately east or west of Building 37.	FY 2024	Internal modification/ 18 SF if pad mounted	18 SF if pad mounted
25	Repair MAC Pad	Project would repair the existing 7,650 SF MAC Pad on the southeast side of Building 65. The repairs might require the removal of the existing hardstand.	FY 2028	7,560 SF	N/A

Table MA-1 Proposed Construction and Modification for the F-15EX Beddown at the 104 FW Installation at BAF

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
26	Repair Maintenance Shops (Building 15)	Project would provide for relocation of shops to the Maintenance Hangar (Building 15) to correctly size them for the maintenance functions required, establishment of a battery maintenance shop, and electrical power upgrades to provide 480V power where required. The internal modifications to the hangar would include renovations to the Battery Storage, Tool Crib, Electric Shop, Egress, and Metals Tech.	FY 2024	Internal repair/reconfiguration	N/A
27	ADAL Fuel Cell (Building 27)	Project would provide adequate and adequately configured space for CFT Maintenance and an external pad for drop tank storage. The 750 SF external pad would be constructed on the northeast corner of Building 27.	FY 2028	750 SF	750 SF
28	ADAL Alert Crew Readiness (Building 48)	Project would provide a 1,500 SF addition for six additional bed spaces while providing minor renovations to the existing space for most efficient use and flow. The addition would be located on the east and south of Building 48 on a grassy area.	FY 2030	1,500 SF	1,500 SF
29	ADAL Squadron Operations Facility (Building 25)	Project would implement internal modifications and expand usable footprint to second story, including increasing Aircrew Flight Equipment, Pilot Locker Room, administrative and common spaces. The 6,600 SF two-story addition would be located within the paved area.	FY 2029	3,400 SF	N/A
30	Repair Avionics Facility (Building 26)	Project would repair and reconfigure the existing Avionics Facility (Building 26) for ECM pod storage and maintenance. The 9,200 SF addition would be constructed on a grassy area north of Building 26.	FY 2025	9,200 SF	9,200 SF

Note: *Year of construction is estimated and is dependent upon funding.

Legend: ADAL = Addition and Alteration; CFT = Conforming Fuel Tank; ECM = Electronic Countermeasures; FY = Fiscal Year; HAZMAT = Hazardous Materials; HQ = Headquarters; HVAC = Heating, Ventilation, and Air Conditioning; LF = linear feet; MNS = Mass Notification System; N/A = Not Applicable; PL3 = Protection Level 3; PN = Person; POL = Petroleum, Oil, and Lubricants; SF = square foot/feet; SFS = Security Forces Specialist; TBD = To be determined; WLT = Weapons Load Crew Training.

Sources: 104 FW n.d.; ACC and NGB 2021a; NGB 2021a.

Table MA-2 Proposed Construction and Modification for the F-35A Beddown at the 104 FW Installation at BAF

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
1.1 (Option 1) 1.2 (Option 2) 1.3 (Option 3)	Renovate/Construct Wing HQ	<p>Project would either renovate the existing Wing HQ (Building 1) or construct a new Wing HQ at one of two optional locations.</p> <p>Option 1 – Renovate Wing HQ, existing Building 1</p> <p>Option 2 – Construct a 16,900 SF Wing HQ at the Building 20 location. The new building would include the following: Reserve Forces General Training Support Honor Guard (4,600 SF) and Reserve Forces Operational Training (12,300 SF). The project would also include 13,800 SF for parking. The project would also involve demolishing the current Wing HQ (Building 1) (22,400 SF) and returning it to green space and demolishing Building 20.</p> <p>Option 3 – Construct a 42,800 SF Wing HQ. The new building would consolidate administrative and support functions including the following: Reserve Forces General Training Support Honor Guard (2,600 SF), Services Flight (4,900 SF), Reserve Forces Operational Training (16,500 SF), Dining and Training Facility (8,500 SF), Physical Fitness (2,400 SF), and Deployment Processing Center (7,900 SF). The project would also include approximately 1,000 LF of utilities (water, sewer, stormwater and electric/telecom) and parking for 150 spots (approximately 59,000 SF including driving aisles). The entire project would be constructed on undeveloped land (in wooded area of newly acquired parcel by new Entry Control Point Gatehouse & Road). The project would also involve demolishing the current Wing HQ (Building 1) (22,400 SF) and returning it to green space.</p>	FY 2027	<p>Option 2- 30,700 SF (entire new construction)</p> <p>Option 3 – 102,800 SF (entire new construction)</p>	<p>Option 2- 30,700 SF (entire new construction) minus 22,400 SF new green space = 8,300 SF</p> <p>Option 3 – 102,800 SF (entire new construction) minus 22,400 SF new green space = 80,400 SF</p>
2	Alter Supply Warehouse (Building 54)	Project would implement internal modifications to improve storage solutions at the Supply Warehouse (Building 54).	FY 2025	Internal modifications	N/A
3	Construct Taxiway Juliet	Project would construct a 33,600 SF new taxiway including shoulder areas to remove aircraft taxiing choke point.	FY 2026	33,600 SF	33,600 SF

Table MA-2 Proposed Construction and Modification for the F-35A Beddown at the 104 FW Installation at BAF

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
4	Renovate POL Shop (Building 33)	Project would implement internal modifications to improve POL testing and administration in POL Shop (Building 33).	FY 2026	Internal modifications	N/A
5	Renovate Avionics Shop (Building 26)	Project would implement internal modifications and repair fire suppression and HVAC systems in Avionic Shop (Building 26).	FY 2026	Internal modifications	N/A
6	Repair MNS	Project would add external mass notification and occupied building notifications to comply with MNS criteria. The project would add 2 to 3 poles with 2-foot diameter concrete pads. The locations would be based on a noise study and are not shown on Figure MA2.1-3.	FY 2027	10 SF	10 SF
7	Construct Vehicle Operations Parking Sheds	Project would demolish existing parking sheds (Buildings 56 and 58) and build new covered parking (Building 56). The project would reconfigure the vehicle operations yard to increase efficiency.	FY 2027	N/A	N/A
8	Construct Redundant Utilities	Project would add redundant feeds for power, water, and natural gas on existing paved areas. a. Telecomm: 3,500 LF b. Power: 4,000 LF c. Water: 400 LF d. Gas: 400 LF	FY 2030	8,300 LF	N/A
9	Renovate JISCC Storage	Project would implement internal modifications to improve storage for Communications Flight JISCC mission.	FY 2028	Internal modifications	N/A
10.1 (Option 1) 10.2 (Option 2)	Construct Running Track	Project would construct a new 0.25-mile running track (approximately 17,000 SF). Option 1 - The track would be constructed on undeveloped land west of TSG Austin C Cooper Road and north of a paved parking lot by the Aviation Readiness Support Facility and the current Main Gate. This option is dependent on a real estate agreement with the Army National Guard. Option 2 – The project would be located in the wooded area on the east side of Building 3 and the parking lot.	FY 2033	17,000 SF	17,000 SF

Table MA-2 Proposed Construction and Modification for the F-35A Beddown at the 104 FW Installation at BAF

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
11	Alter AAS Signage	Project would move existing AAS signs in compliance with FAA criteria. Project would clear the requirement for the existing airfield waiver. Signs would be located on either side of the runway on an 18-inch diameter sonna tube.	FY 2029	N/A	N/A
12	Repair Base Roads and Parking Lots	Project would repair multiple parking lots and base roads to modernize paved infrastructure on the installation. The project would involve repairing approximately 50 percent of the parking lots and roads.	FY 2032	N/A	N/A
13	Construct Base Engineer Storage Yard	Project would construct an outdoor, uncovered storage 5,400 SF gravel yard for base engineer equipment and materials.	FY 2033	5,400 SF	N/A
14	Alter Civil Engineer Building (Building 40)	Project would reconfigure internal Civil Engineer Administrative area in Building 40 and add a 4,300 SF addition for the Emergency Management functions to the facility. Emergency Management functions are currently located in Building 8.	FY 2029	4,300 SF	4,300 SF
15.1 (Option 1) 15.2 (Option 2)	Add/Alter Dining Facility (Building 3)	Project would add/alter the Dining Facility (Building 3). Option 1 – Construct a 2,400 SF gym as an addition to Building 3. Option 2 – Renovate 12,915 SF of Building 3 to include a gym.	FY 2029	Option 1 – 2,400 SF	Option 1 – 2,400 SF minus 9,400 SF of new green space = - 7,000 SF
16.1 (Option 1) 16.2 (Option 2)	Construct Flight Simulator Facility	Project would construct a new 20,000 SF flight simulator that includes all utilities required for the structures. Option 1 – Construct the facility north of Building 25 over Building 36 and Building 37 footprint. Part of the new facility will be constructed over approximately 6,400 SF of grassy area. (Preferred) Option 2 – Construct the facility west of Building 29 in the existing paved parking lot.	FY 2029	20,000 SF	Option 1 – 6,400 SF

Table MA-2 Proposed Construction and Modification for the F-35A Beddown at the 104 FW Installation at BAF

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
17	Repair HAZMAT HVAC (Building 52)	Project would upgrade HVAC system to meet the environmental requirements for storage of paint specific to the F-15EX. The HVAC system would be located on an existing paved area outside of Building 52.	FY 2024	N/A	N/A
18	ADAL WLT Door (Building 23)	Project would modify existing WLT facility for new access door and ramp on the existing paved area to accommodate weapons maintenance requirements.	FY 2024	Internal modification/ Exterior modification on existing paved area for the ramp	N/A
19	Demo Liquid Oxygen Facility (Building 38 & 39)	Project would demolish the overhang structures and facilities in POL Yard, but the existing pads would remain in place.	FY 2030	N/A	N/A
20	Repair Munitions Administration Facility (Building 65)	Project would repair and reconfigure the Munitions Administration facility to provide increased space for munitions trailer maintenance to accommodate increase in munitions for air-to-ground mission training. Includes modifications to HVAC, fire suppression, and utilities as required.	FY 2028	Internal repair	N/A
21	Construct PL3 Fence Line	Project would construct a physical security fence line (approximately 1,800 LF) and access points to consolidate PL3 resources areas and reduce SFS personnel requirements. The project would be completed after most major construction in affected area is completed.	FY 2029	1,800 LF	1,800 LF
22.1 (Option 1) 22.2 (Option 2)	Construct Temporary Facility (Squadron Operations) (Building 25)	Project would provide a temporary squadron operations area (approximately 3,000 SF) until completion of Squadron Operations modifications (Project 36, Building 25). The project would involve temporary trailers situated on the existing paved areas. Option 1 – Between Buildings 25 and 36 (paved area) Option 2 – East of Building 25 and the ramp (paved road)	FY 2024	N/A	N/A

Table MA-2 Proposed Construction and Modification for the F-35A Beddown at the 104 FW Installation at BAF

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
23	Investigative Study for Squadron Operations (second floor and Simulator location) (Building 25)	Project would conduct an engineering study to determine best course of action for future projects. The project would study site locations for Squadron Operations (Projects 22.1 and 22.2) and Flight Simulator (Projects 16.1 and 16.2) projects. Option 1 – single-story addition. Option 2 – two-story addition.	FY 2024	N/A	N/A
24	Add HVAC (Building 37)	Project would add HVAC system for computers in Tool Crib facility (Building 37). The HVAC system might be pad mounted (18 SF) on a grassy area immediately east or west of Building 37.	FY 2024	Internal modification/ 18 SF if pad mounted	18 SF if pad mounted
25	Repair MAC Pad	Project would repair the existing 7,650 SF MAC Pad on the southeast side of Building 65. The repairs might require the removal of the existing hardstand.	FY 2028	7,560 SF	N/A
31	Construct Aircraft Shelters and Shades	Project would add six aircraft shelters and four aircraft shades to the aircraft parking apron along the north and south side.	FY 2027	N/A	N/A
32	Install Power Converters (Buildings 13, 27, 45, 46, 47)	Project would install electrical power convertors in five aircraft shelters for support.	FY 2024	N/A	N/A
33	Repair Maintenance Shops (Building 15) (specific for F-35A)	Project would provide for relocation of shops (Hydraulics, Egress, Collateral Storage, Crew Chiefs, MOF, Electric Shop and Battery Storage) to the Maintenance Hangar (Building 15) to correctly size them for the maintenance functions required, electrical power upgrades, and potential relocation of maintenance administration to the second story.	FY 2025	Internal repair/ reconfiguration	N/A
34	Convert Shelter to Wash Rack (Building 19)	Project would add utilities (water, sewer, etc.) and drainage required to convert existing aircraft shelter into an aircraft wash rack. The project would include approximately 400 SF of disturbance on the existing paved area for the water line and the sewer line connections.	FY 2026	400 SF	N/A

Table MA-2 Proposed Construction and Modification for the F-35A Beddown at the 104 FW Installation at BAF

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
35	Repair LRS (Levelator, Building 54)	Project would modify (widen) existing loading dock to allow for clearances and capacity to load/off-load aircraft engines. Work would be performed on the existing paved hardstand.	FY 2024	N/A	N/A
36	Repair Squadron Operations (Building 25)	Project would include modifications to expand interior areas and interior repairs to move spaces.	FY 2024	Internal modifications	N/A
37	Repair Avionics Facility (Building 26) (specific for F-35A)	Project would repair and reconfigure the existing Avionics Facility (Building 26) for ECM pod storage and maintenance.	FY 2025	Internal modifications	N/A
38	Repair Drop Tank Storage for AGE (Building 116)	Project would convert existing pre-engineered storage building from fuel tank storage to serve as an AGE storage facility. The project would include approximately 200 SF of ground disturbance on a paved area for heating utilities (natural gas).	FY 2026	200 SF	N/A

Note: *Year of construction is estimated and is dependent upon funding.

Legend: AAS = Airfield Arresting System; ADAL = Addition and Alteration; AGE = Aerospace Ground Equipment; ECM = Electronic Countermeasures; FY = Fiscal Year; HAZMAT = Hazardous Materials; HQ = Headquarters; HVAC = Heating, Ventilation, and Air Conditioning; JISCC = Joint Incident Site Communications Capability; LF = linear foot/feet; LRS = Logistics Readiness Squadron; MNS = Mass Notification System; MOF = Maintenance Operations Flight; N/A = Not Applicable; PL3 = Protection Level 3; PN = Person; POL = Petroleum, Oil, and Lubricants; SF = square foot/feet; SFS = Security Forces Specialist; TBD = To be determined; WLT = Weapons Load Crew Training.

Sources: 104 FW n.d.; ACC and NGB 2021a; NGB 2021b.

Table MA-3 Proposed Construction and Modification for the Legacy Aircraft at the 104 FW Installation at BAF

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
1.1 (Option 1) 1.2 (Option 2) 1.3 (Option 3)	Renovate/Construct Wing HQ	<p>Project would either renovate the existing Wing HQ (Building 1) or construct a new Wing HQ at one of two optional locations.</p> <p>Option 1 – Renovate Wing HQ, existing Building 1</p> <p>Option 2 – Construct a 16,900 SF Wing HQ at the Building 20 location. The new building would include the following: Reserve Forces General Training Support Honor Guard (4,600 SF) and Reserve Forces Operational Training (12,300 SF). The project would also include 13,800 SF for parking. The project would also involve demolishing the current Wing HQ (Building 1) (22,400 SF) and returning it to green space and demolishing Building 20.</p> <p>Option 3 – Construct a 42,800 SF Wing HQ. The new building would consolidate administrative and support functions including the following: Reserve Forces General Training Support Honor Guard (2,600 SF), Services Flight (4,900 SF), Reserve Forces Operational Training (16,500 SF), Dining and Training Facility (8,500 SF), Physical Fitness (2,400 SF), and Deployment Processing Center (7,900 SF). The project would also include approximately 1,000 LF of utilities (water, sewer, stormwater and electric/telecom) and parking for 150 spots (approximately 59,000 SF including driving aisles). The entire project would be constructed on undeveloped land (in wooded area of newly acquired parcel by new Entry Control Point Gatehouse & Road). The project would also involve demolishing the current Wing HQ (Building 1) (22,400 SF) and returning it to green space.</p>	FY 2027	<p>Option 2- 30,700 SF (entire new construction)</p> <p>Option 3 – 102,800 SF (entire new construction)</p>	<p>Option 2- 30,700 SF (entire new construction) minus 22,400 SF new green space = 8,300 SF</p> <p>Option 3 – 102,800 SF (entire new construction) minus 22,400 SF new green space = 80,400 SF</p>
2	Alter Supply Warehouse (Building 54)	Project would implement internal modifications to improve storage solutions at the Supply Warehouse (Building 54).	FY 2025	Internal modifications	N/A
3	Construct Taxiway Juliet	Project would construct a 33,600 SF new taxiway including shoulder areas to remove aircraft taxiing choke point.	FY 2026	33,600 SF	33,600 SF

Table MA-3 Proposed Construction and Modification for the Legacy Aircraft at the 104 FW Installation at BAF

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
4	Renovate POL Shop (Building 33)	Project would implement internal modifications to improve POL testing and administration in POL Shop (Building 33).	FY 2026	Internal modifications	N/A
5	Renovate Avionics Shop (Building 26)	Project would implement internal modifications and repair fire suppression and HVAC systems in Avionic Shop (Building 26).	FY 2026	Internal modifications	N/A
6	Repair MNS	Project would add external mass notification and occupied building notifications to comply with MNS criteria. The project would add 2 to 3 poles with 2-foot diameter concrete pads. The locations would be based on a noise study and are not shown on Figure MA2.1-3.	FY 2027	10 SF	10 SF
7	Construct Vehicle Operations Parking Sheds	Project would demolish existing parking sheds (Buildings 56 and 58) and build new covered parking (Building 56). The project would reconfigure the vehicle operations yard to increase efficiency.	FY 2027	N/A	N/A
8	Construct Redundant Utilities	Project would add redundant feeds for power, water, and natural gas on existing paved areas. a. Telecomm: 3,500 LF b. Power: 4,000 LF c. Water: 400 LF d. Gas: 400 LF	FY 2030	8,300 LF	N/A
9	Renovate JISCC Storage	Project would implement internal modifications to improve storage for Communications Flight JISCC mission.	FY 2028	Internal modifications	N/A
10.1 (Option 1) 10.2 (Option 2)	Construct Running Track	Project would construct a new 0.25-mile running track (approximately 17,000 SF). Option 1 – The track would be constructed on undeveloped land west of TSG Austin C Cooper Road and north of a paved parking lot by the Aviation Readiness Support Facility and the current Main Gate. This option is dependent on a real estate agreement with the Army National Guard. Option 2 – The project would be located in the wooded area on the east side of Building 3 and the parking lot.	FY 2033	17,000 SF	17,000 SF

Table MA-3 Proposed Construction and Modification for the Legacy Aircraft at the 104 FW Installation at BAF

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
11	Alter AAS Signage	Project would move existing AAS signs in compliance with FAA criteria. Project would clear the requirement for the existing airfield waiver. Signs would be located on either side of the runway on an 18-inch diameter sonna tube.	FY 2029	N/A	N/A
12	Repair Base Roads and Parking Lots	Project would repair multiple parking lots and base roads to modernize paved infrastructure on the installation. The project would involve repairing approximately 50 percent of the parking lots and roads.	FY 2032	N/A	N/A
13	Construct Base Engineer Storage Yard	Project would construct an outdoor, uncovered storage 5,400 SF gravel yard for base engineer equipment and materials.	FY 2033	5,400 SF	N/A
14	Alter Civil Engineer Building (Building 40)	Project would reconfigure internal Civil Engineer Administrative area in Building 40 and add a 4,300 SF addition for the Emergency Management functions to the facility. Emergency Management functions are currently located in Building 8.	FY 2029	4,300 SF	4,300 SF
15.1 (Option 1) 15.2 (Option 2)	Add/Alter Dining Facility (Building 3)	Project would add/alter the Dining Facility (Building 3). Option 1 – Construct a 2,400 SF gym as an addition to Building 003. Demolish Building 12 (9,400 SF) and return it to green space. Option 2 – Renovate 12,915 SF of Building 3 to include a gym.	FY 2029	Option 1 – 2,400 SF	Option 1 – 2,400 SF minus 9,400 SF of new green space = - 7,000 SF

Note: *Year of construction is estimated and is dependent upon funding.

Legend: AAS = Airfield Arresting System; FY = Fiscal Year; HQ = Headquarters; HVAC = Heating, Ventilation, and Air Conditioning; JISCC = Joint Incident Site Communications Capability; LF = linear feet; MNS = Mass Notification System; N/A = Not Applicable; PN = person; POL = Petroleum, Oil, and Lubricants; SF = square foot/feet; TBD = To be determined.

Source: 104 FW n.d.

[This page intentionally left blank]

104th Fighter Wing

Pride - Professionalism - Patriotism

Table Top Brief F-15EX & F-35A Operational Beddown



104th Fighter Wing
Barnes Air National Guard Base
Westfield, MA



Overview



■ F-15EX Projects

- Project ID 16.1/16.2 - Construct Flight Simulator Facility (2 Options)
- Project ID 21 - Construct PL3 Fence Line
- Project ID 22.1/22.2 - Construct Temporary Facility (2 Options)
- Project ID 27 - Add/Alter Fuel Cell
- Project ID 28 - Add/Alter Alert Crew Readiness
- Project ID 29 - Add/Alter Squadron Operations



Overview



■ F-35A Projects

- Project ID 3 - Construct Taxiway Juliet
- Project ID 7 - Construct Vehicle Operations Parking Sheds
- Project ID 8 - Construct Redundant Utilities
- Project ID 10.1/10.2 - Construct Running Track (2 Options)
- Project ID 11 - Alter AAS Signage
- Project ID 13 - Construct Base Engineer Storage Yard
- Project ID 14 - Alter Civil Engineer Building (Building 40)
- Project ID 15.1/15.2 - Add/Alter Dining Facility (Building 3)
- Project ID 16.1/16.2 - Construct Flight Simulator Facility (2 Options)
- Project ID 18 - ADAL WLT Door (Building 23)
- Project ID 21 - Construct PL3 Fence Line
- Project ID 22.1/22.2 - Construct Temporary Facility (2 Options)
- Project ID 31 - Construct Aircraft Shelters & Shades

104th Fighter Wing

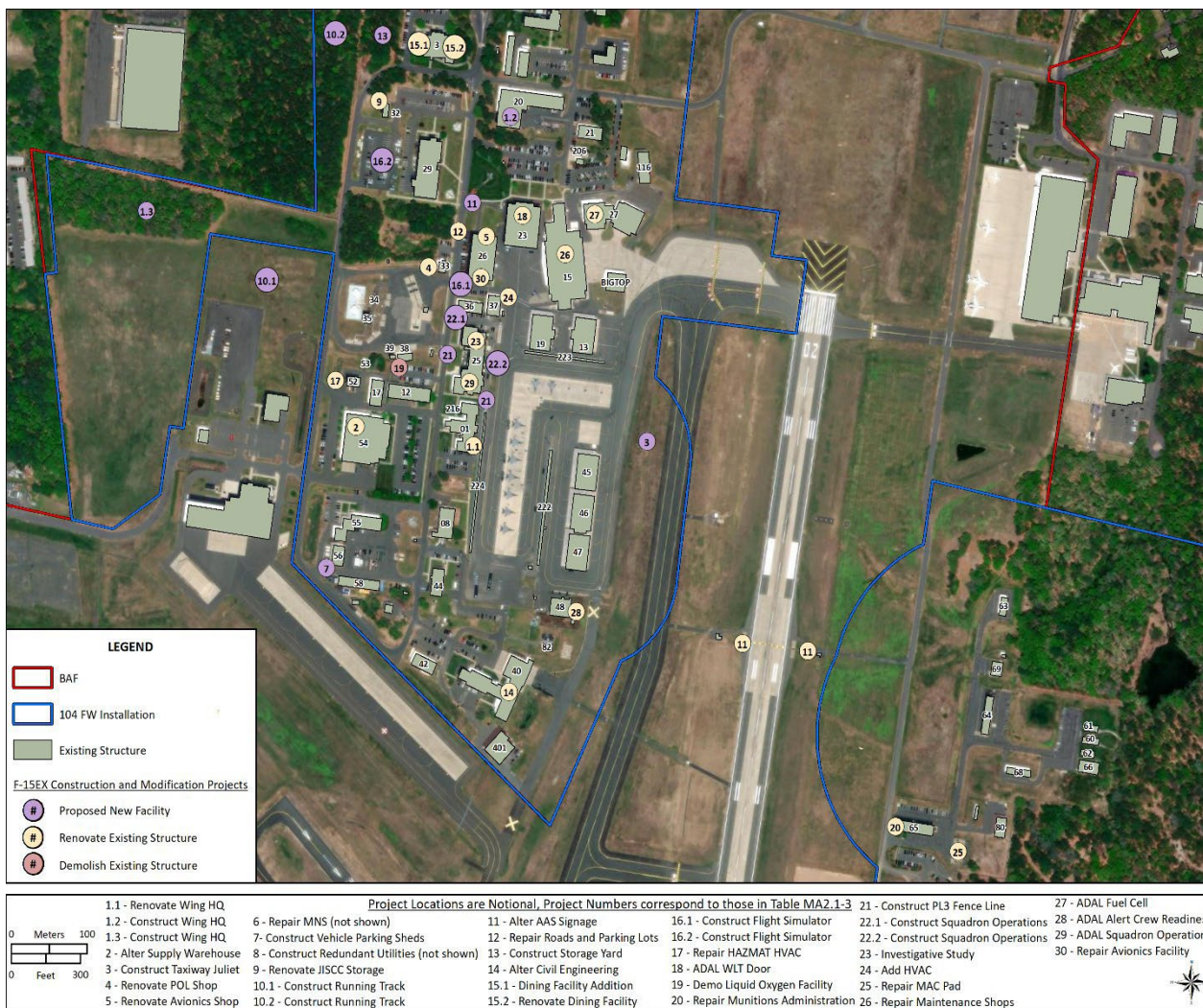
Pride - Professionalism - Patriotism



F-15EX Projects



F-15EX Proposed Construction Map





Construct Flight Simulator Facility Option 1



- Project ID: 16.1
- Lat/Long:
42.169484, -72.718094
- Estimated Height:
30'
- Size:
20,000 SF





Construct Flight Simulator Facility Option 2



- Project ID: 16.2
- Lat/Long:
42.171181, -72.719607
- Estimated Height:
30'
- Size:
20,000 SF





Construct PL3 Fence Line



- Project ID: 21
- Lat/Long:
42.170704, -72.717912
- Estimated Height:
8'
- Size:
1,800 LF





Construct Temporary Facilities Options 1 and 2



- Project ID: 22.1
- Lat/Long:
42.169416, -72.718256
- Estimated Height:
15'
- Size:
3,000 SF

- Project ID: 22.2
- Lat/Long:
42.169002, -72.718155
- Estimated Height:
15'
- Size:
3,000 SF





Add/Alter Alert Crew Readiness



- Project ID: 28
- Lat/Long:
42.166090, -72.716880
- Estimated Height:
25'
- Size:
1,500 SF





Add/Alter Squadron Operations



- **Project ID: 29**
- **Lat/Long:**
42.168865, -72.718253
- **Estimated Height:**
34'
- **Size:**
3,400 SF



104th Fighter Wing

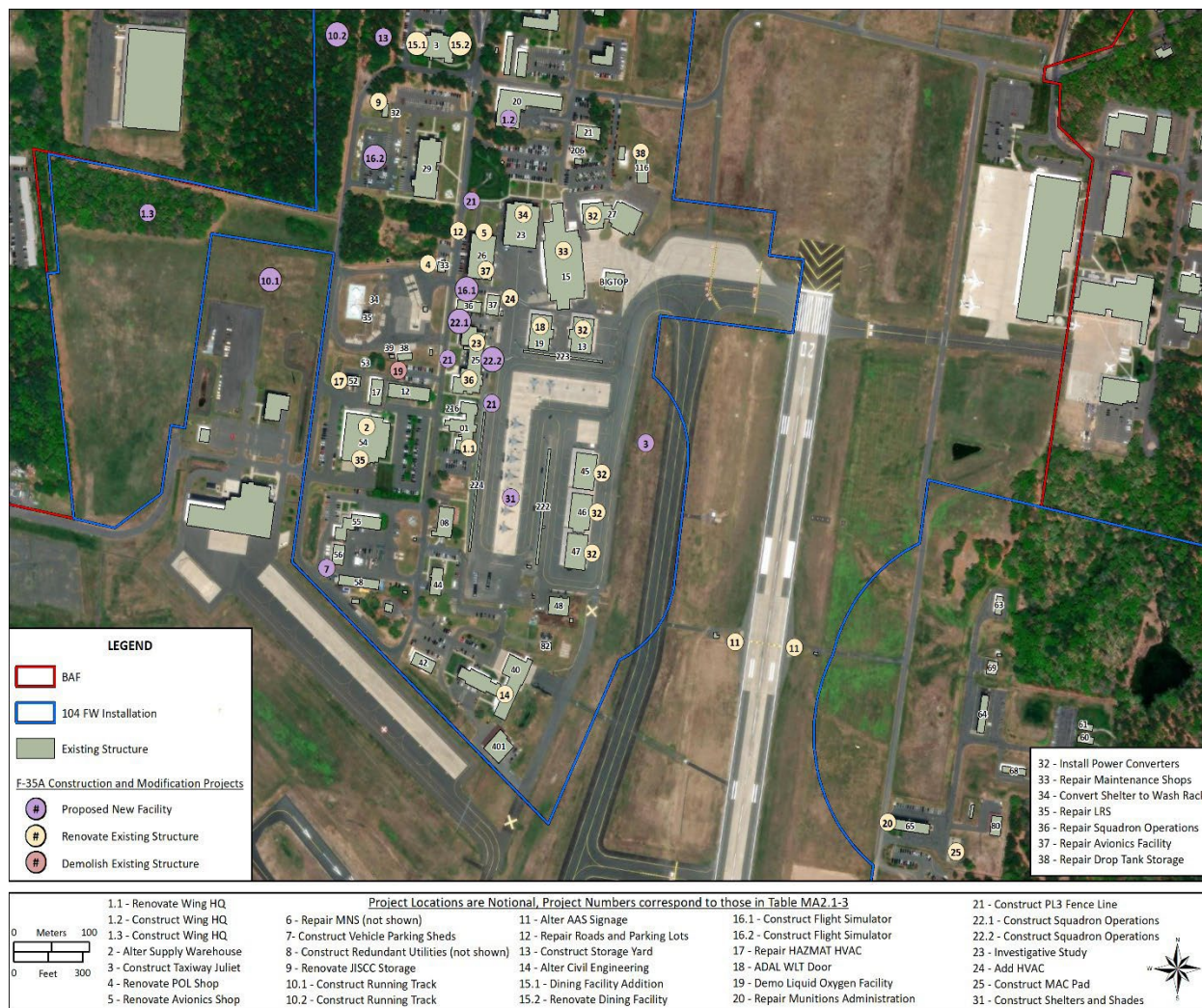
Pride - Professionalism - Patriotism



F-35A Projects



F-35A Proposed Construction Map



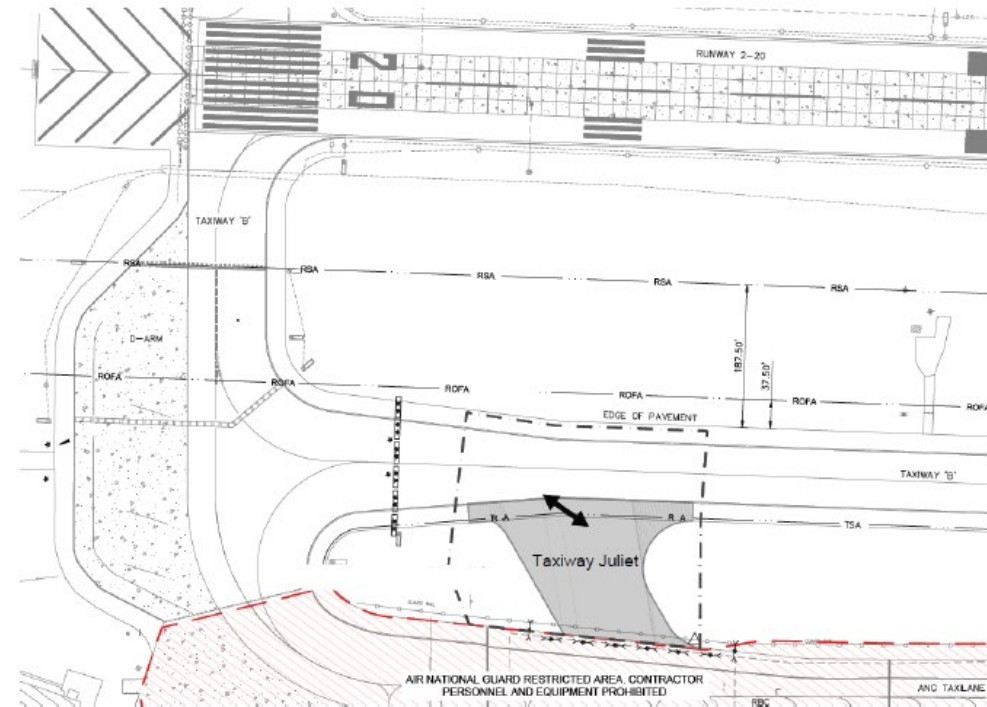


Construct Taxiway Juliet



- **Project ID: 3**
- **Lat/Long:**
42.168776, -72.715514
- **Estimated Height:**
0'
- **Size:**
33,600 SF

ACA Taxiway Juliet (Cancelled)





Construct Vehicle Operations Parking Sheds



- **Project ID: 7**
- **Lat/Long:**
42.166743, -72.720668
- **Estimated Height:**
21'
- **Size:**
8,276 SF (No new ground disturbance)

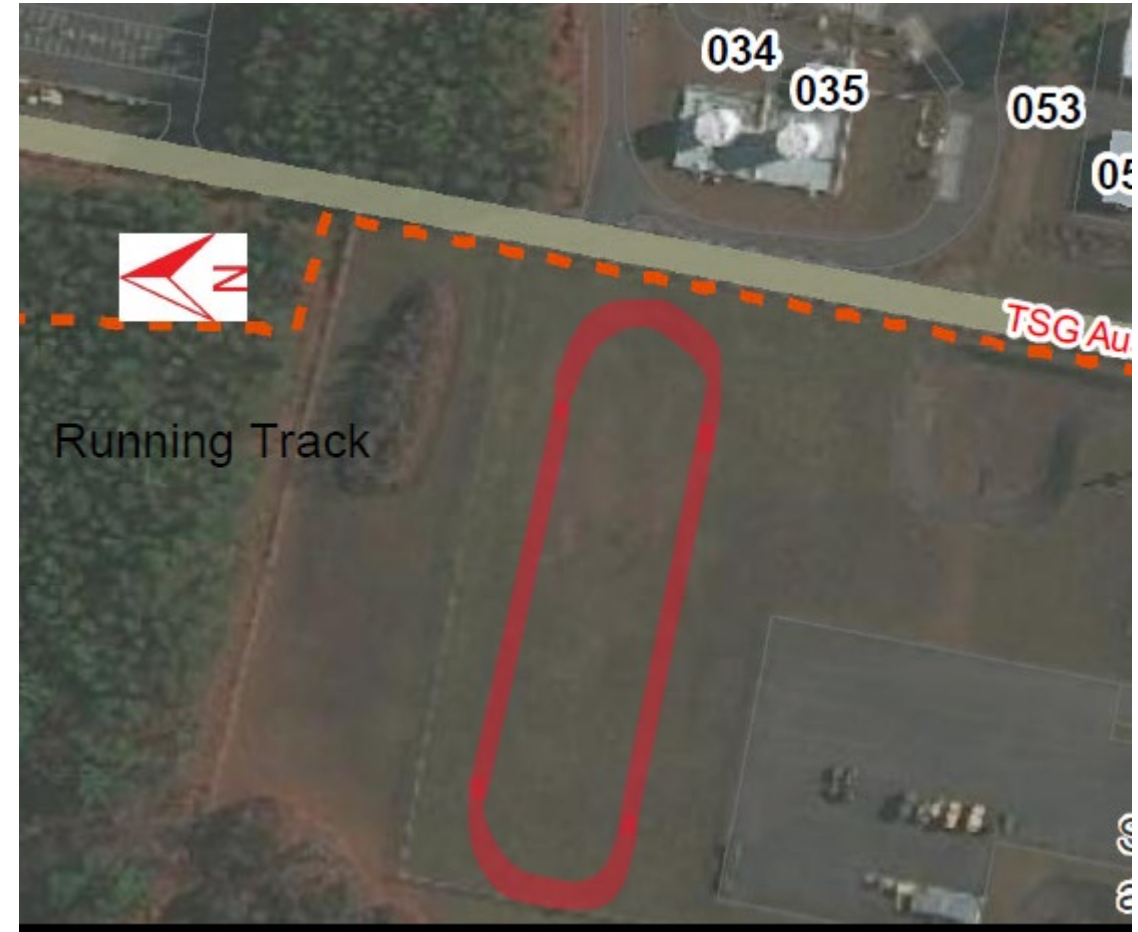




Construct Running Track Option 1



- Project ID: 10.1
- Lat/Long:
42.169965, -72.721547
- Estimated Height:
0'
- Size:
17,000 SF





Construct Running Track Option 2



- Project ID: 10.2
- Lat/Long:
42.172595, -72.720518
- Estimated Height:
0'
- Size:
17,000 SF

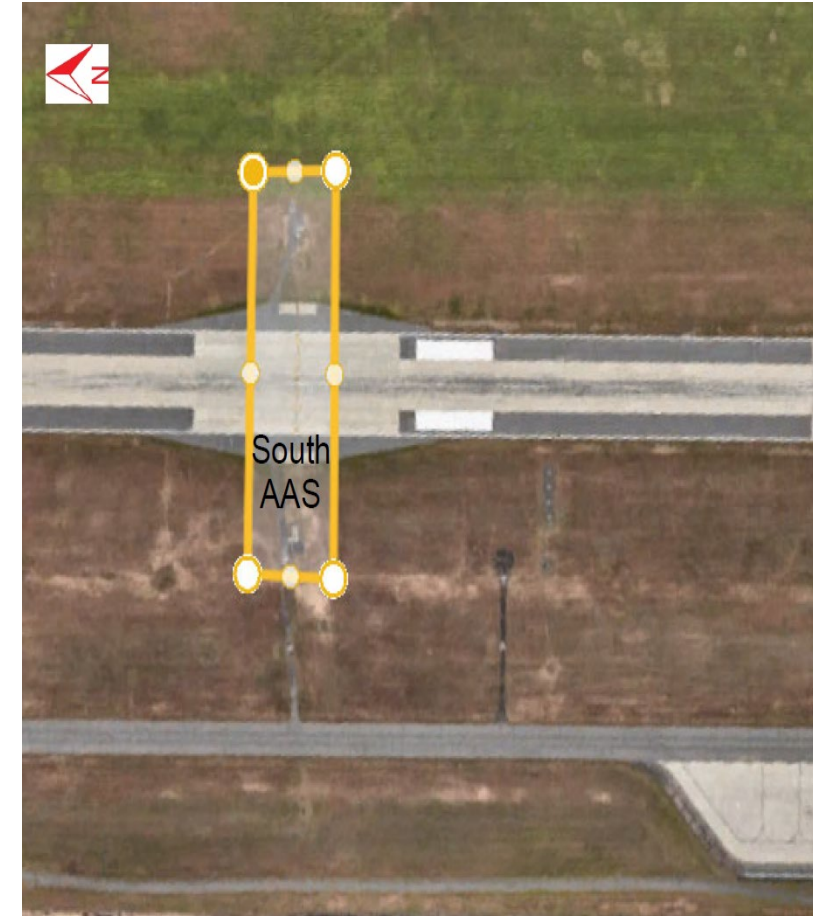
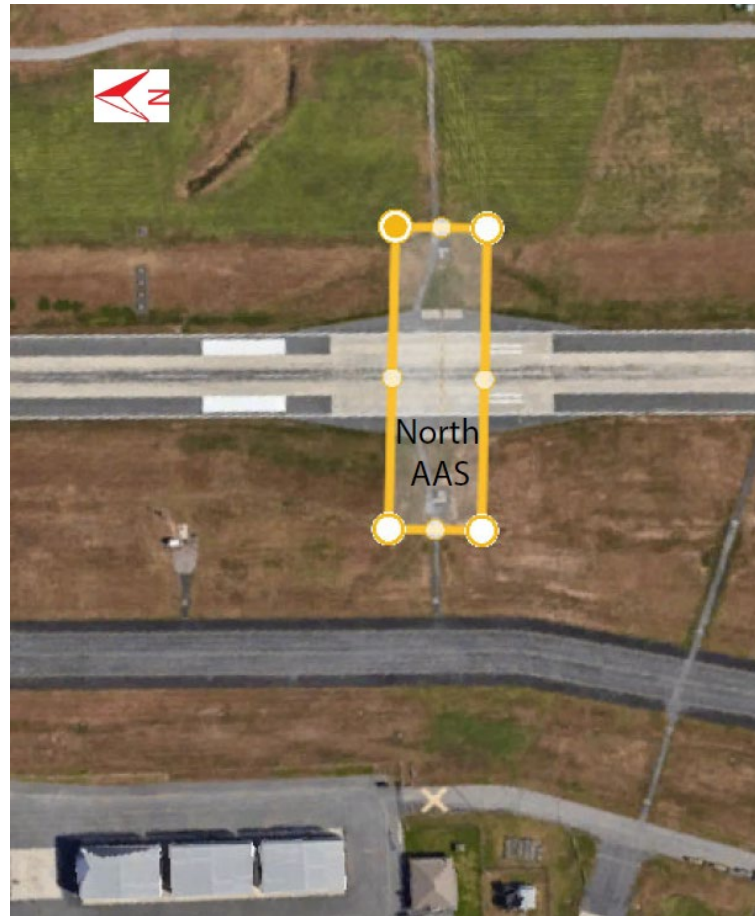




Alter AAS Signage



- **Project ID: 11**
- **Lat/Long:**
42.165694, -72.713864
42.149134, -72.717888
- **Estimated Height:**
N/A
- **Size:**
N/A (relocation of existing AAS signs)





Construct Base Engineer Storage Yard



- **Project ID: 13**
- **Lat/Long:**
42.166152, -72.719258
- **Estimated Height:**
0'
- **Size:**
5,400 SF





Alter Civil Engineer Building (Building 40)



- **Project ID: 14**
- **Lat/Long:
42.165263, -72.718335**
- **Estimated Height:
29'**
- **Size:
4,300 SF**





Add/Alter Dining Facility (Building 3) Option 1



- **Project ID: 15.1**
- **Lat/Long:**
42.1172511, -72.719242
- **Estimated Height:**
17'
- **Size:**
2,400 SF





Add/Alter Dining Facility(Building 3) Option 2



- **Project ID: 15.2**
- **Lat/Long:**
42.169484, -72.718094
- **Estimated Height:**
N/A
- **Size:**
NA (internal renovation)





Construct Flight Simulator Facility Option 1



- Project ID: 16.1
- Lat/Long:
42.169484, -72.718094
- Estimated Height:
30'
- Size:
20,000 SF





Construct Flight Simulator Facility Option 2



- Project ID: 16.2
- Lat/Long:
42.171181, -72.719607
- Estimated Height:
30'
- Size:
20,000 SF

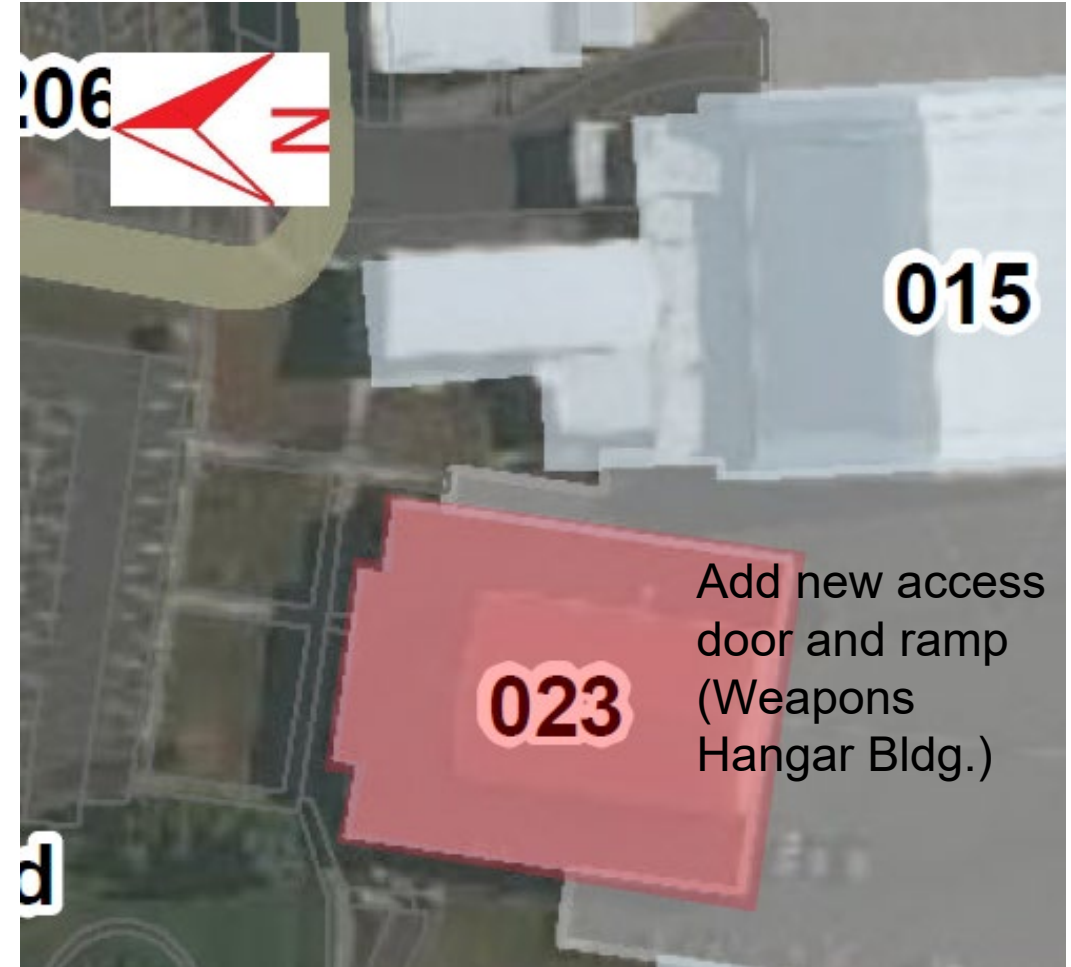




ADAL WLT Door (Building 23)



- **Project ID: 18**
- **Lat/Long:
42.170437, -72.717663**
- **Estimated Height:
N/A**
- **Size:
N/A (internal renovation)**

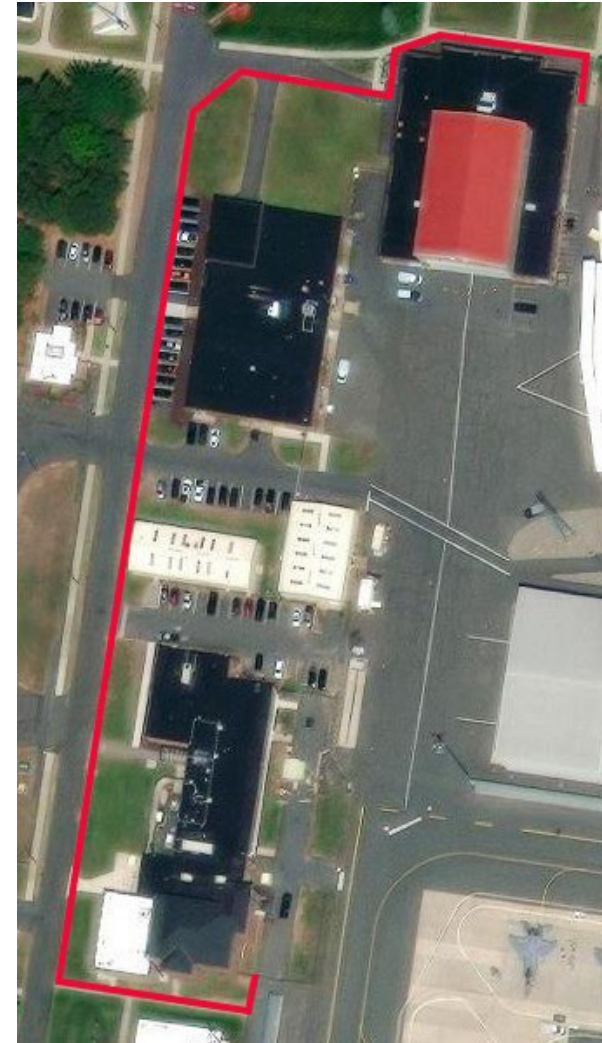




Construct PL3 Fence Line



- Project ID: 21
- Lat/Long:
42.170704, -72.717912
- Estimated Height:
8'
- Size:
1,800 LF



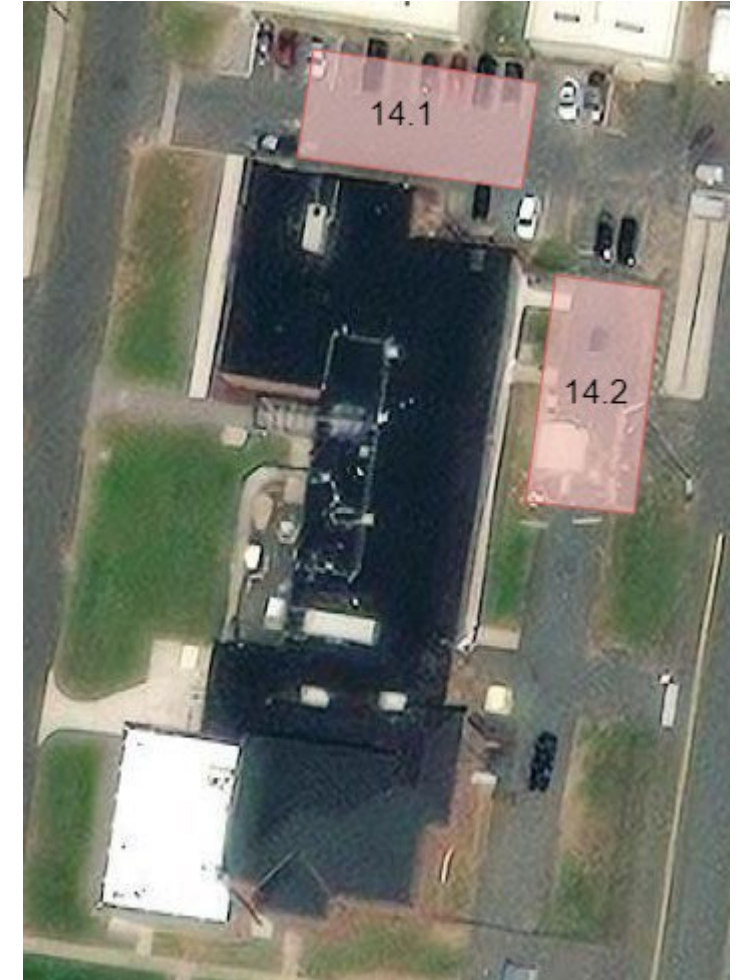


Construct Temporary Facilities Options 1 and 2



- Project ID: 22.1
- Lat/Long:
42.169416, -72.718256
- Estimated Height:
15'
- Size:
3,000 SF

- Project ID: 22.2
- Lat/Long:
42.169002, -72.718155
- Estimated Height:
15'
- Size:
3,000 SF

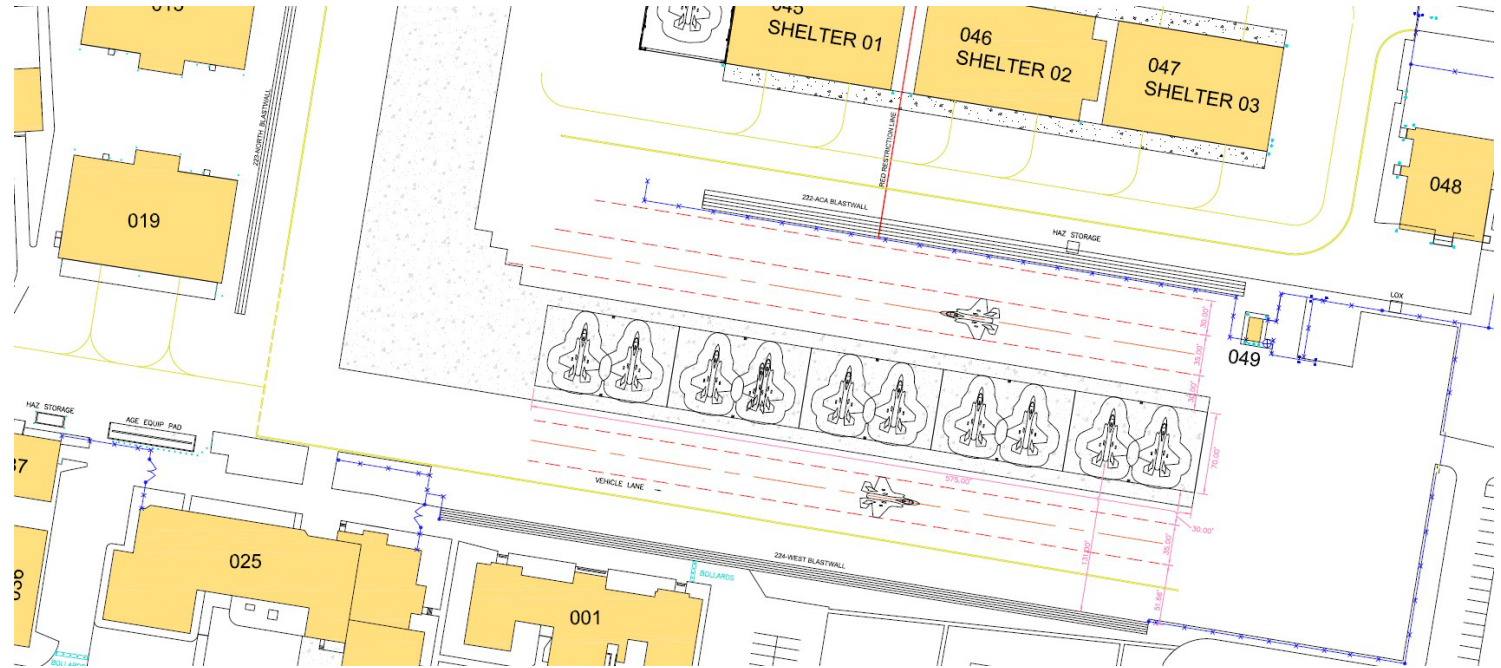




Construct Aircraft Shelters & Shades



- Project ID: 31
- Lat/Long
42.168228, -72.717686
- Estimated Height:
38'-3"
- Size: 40,250 SF (No new ground disturbance)



**144th Fighter Wing at Fresno Yosemite International
Airport (FAT)**

This page intentionally left blank.

Table CA-1 Proposed Construction and Modification for the F-15EX Beddown at the 144 FW Installation at FAT

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
Locational Scenario 1 – Installation to Remain in Place					
1	Construct Munitions Administration	Project would construct a 4,400 SF munitions administration facility to address explosive safety arc concerns. New building would be located northwest of Building 2601 on open, undeveloped land.	FY 2024	4,400 SF	4,400 SF
2	Construct Entry Control Area – Munitions Dakota Gate	Project would construct Entry Control Facilities at the Munitions Dakota Gate to include security fence, gatehouse, vehicle turnaround area, vehicle inspection area, Overwatch area, and respective roads and pavements.	FY 2025	139,400 SF	45,000 SF
3	Construct Three Phase ECP – Main Gate	Project would demolish existing ECP and construct Entry Control Facilities at the Main Gate (Griffin Way & Falcon Drive) to include security fence, gatehouse, vehicle turnaround area, Overwatch area, and respective roads and pavements. The project would bring the gate up to DAF code.	FY 2025	139,400 SF	45,000 SF
4	Construct Vehicle Maintenance Complex	<p>Project would demolish existing Vehicle Maintenance facilities and construct a 26,500 SF Vehicle Maintenance Complex for authorized 129 vehicles location to be determined.</p> <p>Vehicle Maintenance Facilities:</p> <ul style="list-style-type: none"> - Vehicle Maintenance Support Core = 5,000 SF - Vehicle/Vehicular Equipment Maintenance = 6,300 SF - Customer Service = 1,200 SF - Under 20 material handling = 2,500 SF - Refueling Maintenance = 3,500 SF - Total = 18,500 SF <p>Parking areas and large vehicle turning radius entryways = 8,000 SF</p>	FY 2024	26,500 SF	N/A

Table CA-1 Proposed Construction and Modification for the F-15EX Beddown at the 144 FW Installation at FAT

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
5	Construct Med Training and SFS EMEDS Facility	Project would construct a Medical Training and SFS EMEDS Facility. New facility would be located at the existing parking lot between Building 125 and Building 123.	FY 2024	10,300 SF	10,300 SF
6	Repair Airfield Pavements	Project would replace the existing apron. The existing apron pavement is subject to severe alkali-silica reaction (also known as concrete cancer) and is in poor and rapidly declining condition. This project would replace the entire apron to full-depth as the only means of long-term repair. The project would involve the removal of the current shelters (to be recycled or reused), demolition of the concrete (approximately 26,000 CY) with the use of a batch plant, and removal of the aggregate concrete from the site.	FY 2025	702,000 SF	N/A
7	Repair Munitions M&I (Building 2600)	Project would repair the existing Munitions M&I facility (Building 2600). Facility is in overall good condition. This project would modify the existing administrative space to be another pull-through munitions bay for efficiency.	FY 2028	Internal repair	N/A
8	ADAL Building 2606 for ATG Munitions / Construct MAC Pad	Project would repair the existing Building 2606 in the munitions area to accommodate air-to-ground munitions inspection & assembly and training functions. In addition, the project would construct a MAC Pad southeast of Building 2606 and west of Building 2620 on an undeveloped, grassy area.	FY 2027	Internal repairs to Building 2606. 7,600 SF for MAC Pad	7,600 SF for MAC Pad
9.1 (Option 1)	Construct Fire Station	Project would construct a 17,400 SF fire response station with six bays and 68,100 SF of associated paved apron and taxiway connectors for access to the airfield. Current Fire Station has four bays and would be demolished in the future. For the South COA, the proposed location is Option 1. Between the track and the south side of the runway on open, undeveloped land at the same 'level' as current location.	FY 2024	85,500 SF	85,500 SF

Table CA-1 Proposed Construction and Modification for the F-15EX Beddown at the 144 FW Installation at FAT

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
10	ADAL Squadron Operations (Building 194)	Project would consist of a 1,200 SF addition to Building 194 and modification of the remaining 24,400 SF facility to accommodate increased space, administrative requirements, and administrative space for additional crew. The 1,200 SF addition would be constructed on an open, grassy area to the northwest side of Building 194.	FY 2025	1,200 SF	1,200 SF
11	Repair Small Maintenance Hangar (Building 159)	Project would repair the Small Maintenance Hangar, Building 159. Facility is in overall good condition. This project would provide adequate clean and dirty room separation as required by DAF code.	FY 2025	Internal repair	N/A
12	Repair Fuel Cell HVAC (Building 157)	Project would repair existing HVAC system in order to provide adequate make-up air for fuel cell operations. The HVAC system and facility as a whole are in otherwise good condition.	FY 2028	Internal repair	N/A
13	ADAL Alert Crew Readiness	Project would renovate the existing Alert Crew Readiness facility (Building 155). Facility is in overall good condition but is undersized for the mission requirement. This project would provide the maximum addition allowable by the site footprint while renovating the existing space for most efficient use and flow. It also brings the inadequate alert ECP up to security standards. Notes: Alternative to constructing a new Alert Crew Readiness Facility.	FY 2026	Internal repair	N/A
14	Construct F-15EX Four Bay FMS Facility	Project would construct a 20,000 SF facility to house four FMSs and support systems and associated administrative spaces. The new facility would be located on open, undeveloped land north of Building 120.	FY 2027	20,000 SF	20,000 SF

Table CA-1 Proposed Construction and Modification for the F-15EX Beddown at the 144 FW Installation at FAT

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
15	Construct WLT Hangar	Project would construct a 10,000 SF single bay WLT hangar and associated pavements on the south side of the runway. The new hangar would be located on open, undeveloped land east of Building 167.	FY 2027	10,000 SF	10,000 SF
16	Construct CFT Maintenance Facility	Project would construct a 2,300 SF facility for maintenance of the F-15EX specific CFTs. A facility for this activity currently does not exist. The facility would be constructed north of Building 167 on an undeveloped grassy area.	FY 2027	2,300 SF	2,300 SF
Locational Scenario 2 – ACA Mission Only Move to North					
1	Construct Munitions Administration	Project would construct a 4,400 SF munitions administration facility to address explosive safety arc concerns. New building would be located northwest of Building 2601 on open, undeveloped land.	FY 2024	4,400 SF	4,400 SF
2	Construct Entry Control Area – Munitions Dakota Gate	Project would construct Entry Control Facilities at the Munitions Dakota Gate to include security fence, gatehouse, vehicle turnaround area, vehicle inspection area, Overwatch area, and respective roads and pavements.	FY 2025	139,400 SF	45,000 SF
3	Construct Three Phase ECP – Main Gate	Project would demolish existing ECP and construct Entry Control Facilities at the Main Gate (Griffin Way & Falcon Drive) to include security fence, gatehouse, vehicle turnaround area, Overwatch area, and respective roads and pavements. The project would bring the gate up to DAF code.	FY 2025	139,400 SF	45,000 SF

Table CA-1 Proposed Construction and Modification for the F-15EX Beddown at the 144 FW Installation at FAT

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
4	Construct Vehicle Maintenance Complex	<p>Project would demolish existing Vehicle Maintenance facilities and construct a 26,500 SF Vehicle Maintenance Complex for authorized 129 vehicles on the existing footprint of Buildings 102 and 116.</p> <p>Vehicle Maintenance Facilities:</p> <ul style="list-style-type: none"> - Vehicle Maintenance Support Core = 5,000 SF - Vehicle/Vehicular Equipment Maintenance = 6,300 SF - Customer Service = 1,200 SF - Under 20 material handling = 2,500 SF - Refueling Maintenance = 3,500 SF - Total = 18,500 SF <p>Parking areas and large vehicle turning radius entryways = 8,000 SF</p>	FY 2024	26,500 SF	N/A
5	Construct Med Training and SFS EMEDS Facility	Project would construct a Medical Training and SFS EMEDS Facility. New facility would be located at the existing parking lot between Building 125 and Building 123.	FY 2024	10,300 SF	10,300 SF
6	Repair Airfield Pavements	Project would replace the existing apron. The existing apron pavement is subject to severe alkali-silica reaction (also known as concrete cancer) and is in poor and rapidly declining condition. This project would replace the entire apron to full-depth as the only means of long-term repair. The project would involve the removal of the current shelters (to be recycled or reused), demolition of the concrete (approximately 26,000 CY) with the use of a batch plant, and removal of the aggregate concrete from the site.	FY 2025	702,000 SF	N/A

Table CA-1 Proposed Construction and Modification for the F-15EX Beddown at the 144 FW Installation at FAT

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
7	Repair Munitions M&I (Building 2600)	Project would repair the existing Munitions M&I facility (Building 2600). Facility is in overall good condition. This project would modify the existing administrative space to be another pull-through munitions bay for efficiency.	FY 2028	Internal repair	N/A
8	ADAL Building 2606 for ATG Munitions / Construct MAC Pad	Project would construct an addition to and repair existing Building 2606 in the munitions area to accommodate air-to-ground munitions inspection & assembly and training functions. In addition, the project would construct a MAC Pad southeast of Building 2606 and west of Building 2620 on an undeveloped, grassy area.	FY 2027	Internal repairs to Building 2606. 7,600 SF for MAC Pad	7,600 SF for MAC Pad
9.1 (Option 1) 9.2 (Option 2)	Construct Fire Station	Project would construct a 17,400 SF fire response station with six bays and 68,100 SF of associated paved apron and taxiway connectors for access to the airfield. Current Fire Station has four bays and would be demolished in the future. There are two proposed locations for ACA Mission Only Move to North COA: Option 1. Adjacent to Building 145 and the south side of the runway on open, undeveloped land at the same 'level' as current location. Option 2. North side northwest of the Marine Corps ramp on existing concrete hardstand.	FY 2024	85,500 SF	85,500 SF for Option 1 N/A for Option 2
10	ADAL Squadron Operations (Building 194)	Project would consist of a 1,200 SF addition to Building 194 and modification of the remaining 24,400 SF facility to accommodate increased space, administrative requirements, and administrative space for additional crew. The 1,200 SF addition would be constructed on an open, grassy area to the northwest side of Building 194.	FY 2025	1,200 SF	1,200 SF
11	Repair Small Maintenance Hangar (Building 159)	Project would repair the Small Maintenance Hangar, Building 159. Facility is in overall good condition. This project would provide adequate clean and dirty room separation as required by DAF code.	FY 2025	Internal repair	N/A

Table CA-1 Proposed Construction and Modification for the F-15EX Beddown at the 144 FW Installation at FAT

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
12	Repair Fuel Cell HVAC (Building 157)	Project would repair existing HVAC system in order to provide adequate make-up air for fuel cell operations. The HVAC system and facility as a whole are in otherwise good condition.	FY 2028	Internal repair	N/A
14	Construct F-15EX Four Bay FMS Facility	Project would construct a 20,000 SF facility to house four FMSs and support systems and associated administrative spaces. The new facility would be located on open, undeveloped land north of Building 120.	FY 2027	20,000 SF	20,000 SF
15	Construct WLT Hangar	Project would construct a 10,000 SF single bay WLT hangar and associated pavements on the south side of the runway. The new hangar would be located on open, undeveloped land east of Building 167.	FY 2027	10,000 SF	10,000 SF
16	Construct CFT Maintenance Facility	Project would construct a 2,300 SF facility for maintenance of the F-15EX specific CFTs. A facility for this activity currently does not exist. The facility would be constructed north of Building 167 on an undeveloped grassy area.	FY 2027	2,300 SF	2,300 SF
17	Construct Alert Spots 5 & 6	Project would construct the final two parking spots (approximately 63,000 SF) for the full ACA mission on the new north side installation.	FY 2028	63,000 SF	63,000 SF
18	Construct Alert Complex	Project would construct a 10,210 SF Alert Crew Readiness facility, along with a 270,000 SF adjacent aircraft parking apron for the initial four aircraft mission, taxiway connectors, and security fencing with ECP. Proposed location is on the former Marine Corps Reserve Center.	FY 2024	280,210 SF	280,210 SF

Table CA-1 Proposed Construction and Modification for the F-15EX Beddown at the 144 FW Installation at FAT

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
19	Construct North Utilities Infrastructure	Project would construct approximately 96,000 SF of utility service lines for electricity, natural gas, water, sewer, and ducting for telecommunications to the new north side installation.	FY 2024	96,000 SF	96,000 SF
20	Construct ECP – E. Airway Boulevard	Project would construct a 100 SF check house and vehicle search pit for a total of 300 SF.	FY 2024	300 SF	300 SF

Note: *Year of construction is estimated and is dependent upon funding.

Legend: ACA = Aerospace Control Alert; ADAL = Addition and Alteration; ASE = Aircraft Support Equipment; ATG = air-to-ground; CFT = Conforming Fuel Tank; COA = course of action; CY = cubic yard; DAF = Department of the Air Force; ECP = Entry Control Point; EMEDS = Expeditionary Medical Support; FMS = Full Mission Simulator; FY = fiscal year; GFE = Government Furnished Equipment; HVAC = Heating, Ventilation, and Air Conditioning; M&I = Maintenance and Inspection; MAC = Munitions Assembly Conveyor; MCCA = Military Construction Cooperative Agreement; N/A = Not Applicable; SF = square foot/feet; SFS = Security Forces Squadron; WLT = Weapons Load Crew Training.

Source: ACC and NGB 2021b; NGB 2021c.

**Table CA-2 Proposed Construction and Modification for the F-15C Legacy Aircraft Mission
at the 144 FW Installation at FAT**

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
1	Construct Munitions Administration Facility	Project would construct a 4,400 SF munitions administration facility to address explosive safety arc concerns. New building would be located northwest of Building 2601 on open, undeveloped land.	FY 2024	4,400 SF	4,400 SF
2	Construct Entry Control Area – Munitions Dakota Gate	Project would construct Entry Control Facilities at the Munitions Dakota Gate to include security fence, gatehouse, vehicle turnaround area, vehicle inspection area, Overwatch area, and respective roads and pavements.	FY 2025	139,400 SF	45,000 SF
3	Construct Three Phase ECP – Main Gate	Project would demolish existing ECP and construct Entry Control Facilities at the Main Gate (Griffin Way & Falcon Drive) to include security fence, gatehouse, vehicle turnaround area, Overwatch area, and respective roads and pavements. The project would bring the gate up to DAF code.	FY 2025	139,400 SF	45,000 SF
4	Construct Vehicle Maintenance Complex	<p>Project would demolish existing Vehicle Maintenance facilities and construct a 26,500 SF Vehicle Maintenance Complex for authorized 129 vehicles on the existing footprint of Buildings 102 and 116.</p> <p>Vehicle Maintenance Facilities:</p> <ul style="list-style-type: none"> - Vehicle Maintenance Support Core = 5,000 SF - Vehicle/Vehicular Equipment Maintenance = 6,300 SF - Customer Service = 1,200 SF - Under 20 material handling = 2,500 SF - Refueling Maintenance = 3,500 SF - Total = 18,500 SF <p>Parking areas and large vehicle turning radius entryways = 8,000 SF.</p>	FY 2024	26,500 SF	N/A

**Table CA-3 Proposed Construction and Modification for the F-15C Legacy Aircraft Mission
at the 144 FW Installation at FAT**

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
5	Construct Med Training and SFS EMEDS Facility	Project would construct a Medical Training and SFS EMEDS Facility. New facility would be located at the existing parking lot between Building 125 and Building 123.	FY 2024	10,300 SF	10,300 SF
6	Repair Airfield Pavement	Project would replace the existing apron. The existing apron pavement is subject to severe alkali-silica reaction (also known as concrete cancer) and is in poor and rapidly declining condition. This project would replace the entire apron to full-depth as the only means of long-term repair. The project would involve the removal of the current shelters (to be recycled or reused), demolition of the concrete (approximately 26,000 CY) with the use of a batch plant, and removal of the aggregate concrete from the site.	FY 2024	702,000 SF	N/A
21	Building 130 Renovation	Comprehensive renovation.	FY 2024	Internal renovation	N/A
22	Building 135 Dining Facility Remodel	Perform Dining Facility renovation.	FY 2024	Internal renovation	N/A

Note: *Year of construction is estimated and is dependent upon funding.

Legend: CY = cubic yard; DAF = Department of the Air Force; ECP = Entry Control Point; EMEDS = Expeditionary Medical Support; FY = fiscal year; MCCA = Military Construction Cooperative Agreement; N/A = Not Applicable; SF = square foot/feet; SFS = Security Forces Squadron.

Source: 144 FW n.d.



144th FIGHTER WING



F-15EX FACILITIES



F-15EX PROPOSED CONSTRUCTION OVERVIEW – LOCATIONAL SCENARIO 1



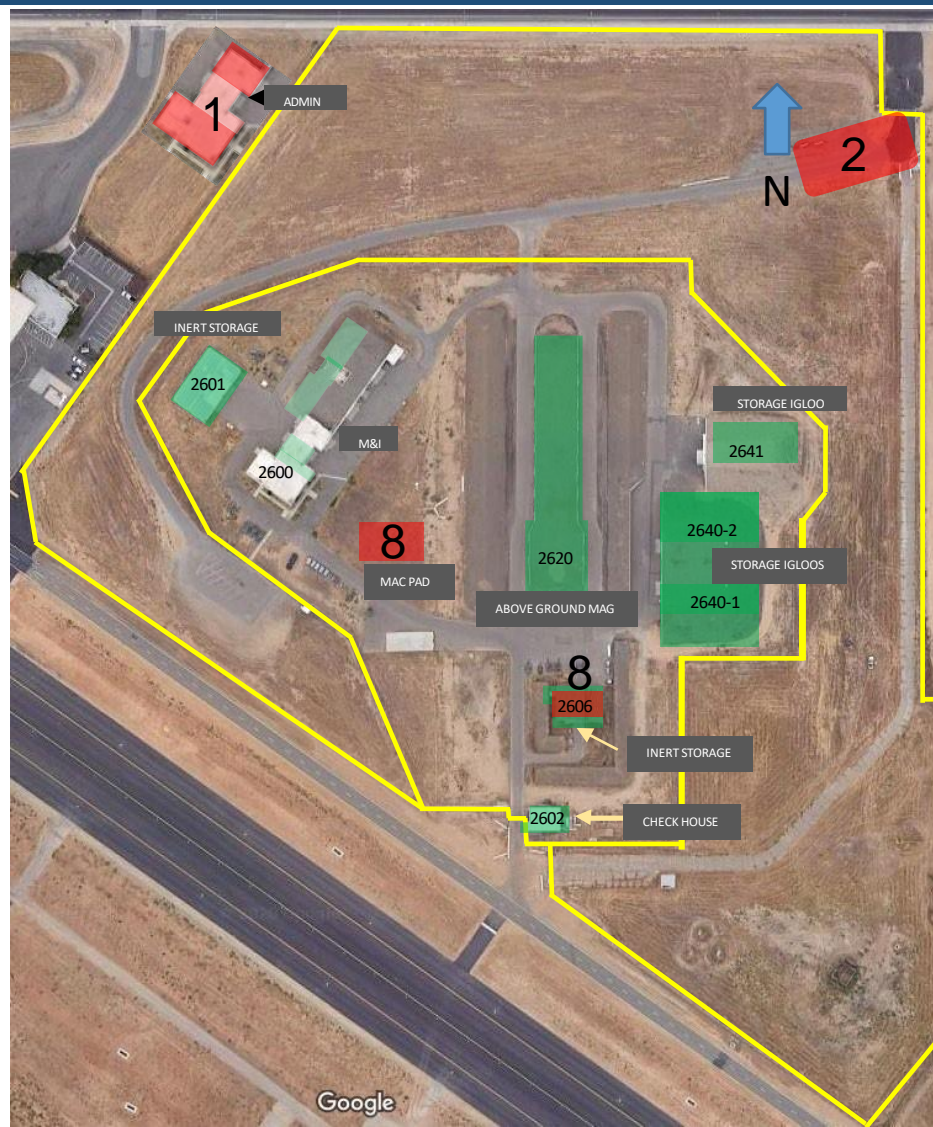


F-15EX PROPOSED CONSTRUCTION

OVERVIEW – Locational Scenario 1 (MSA Vicinity)



Project ID	Facility	Height (feet)	Distance from 29R (feet)	Total Square Feet
1	Muns Admin	20'	1,385	4.4K
2	ECP	23'	1,900	45K
8	MAC Pad	25' (If Covered)	1,040	7.6K



Project 1 – Construct Munitions Administration Facility

Project 2 – Construct Entry Control Point (ECP)

Project 8 – Addition/Alter Building 2606 / Construct MAC Pad



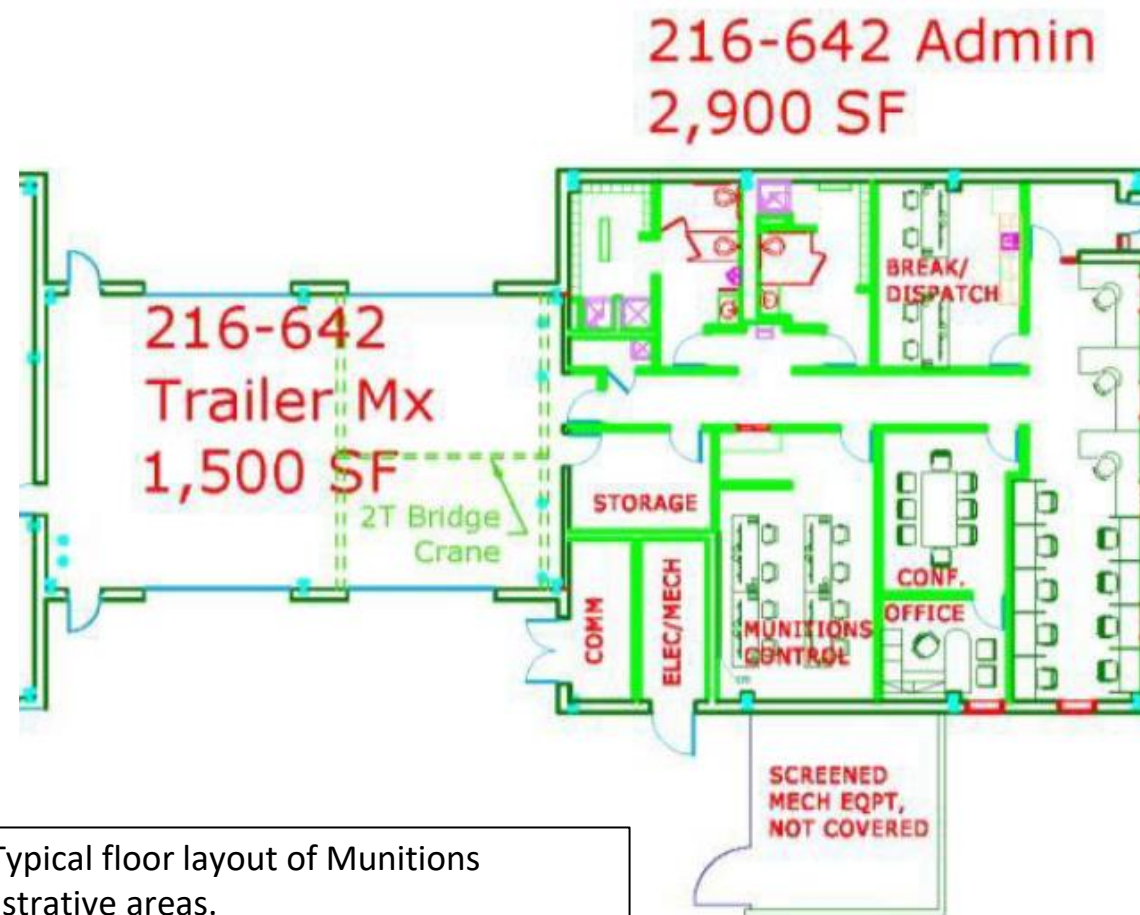
F-15EX PROPOSED CONSTRUCTION

Construct Munitions Administration



Project ID	Facility	Height (feet)	Distance from 29R (feet)	Total Square Feet
1	Muns Admin	20'	1,385	4.4K

Project constructs a 4,400 SF munitions administration facility. The current facility is connected to a live munitions inspection and assembly facility, in violation of explosive safety arc requirements. This project corrects this serious safety deficiency.



Note: Typical floor layout of Munitions Administrative areas.



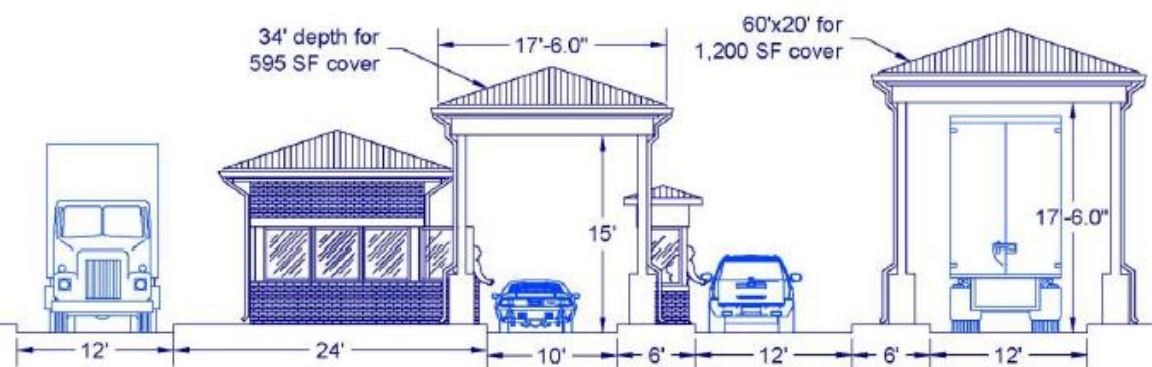
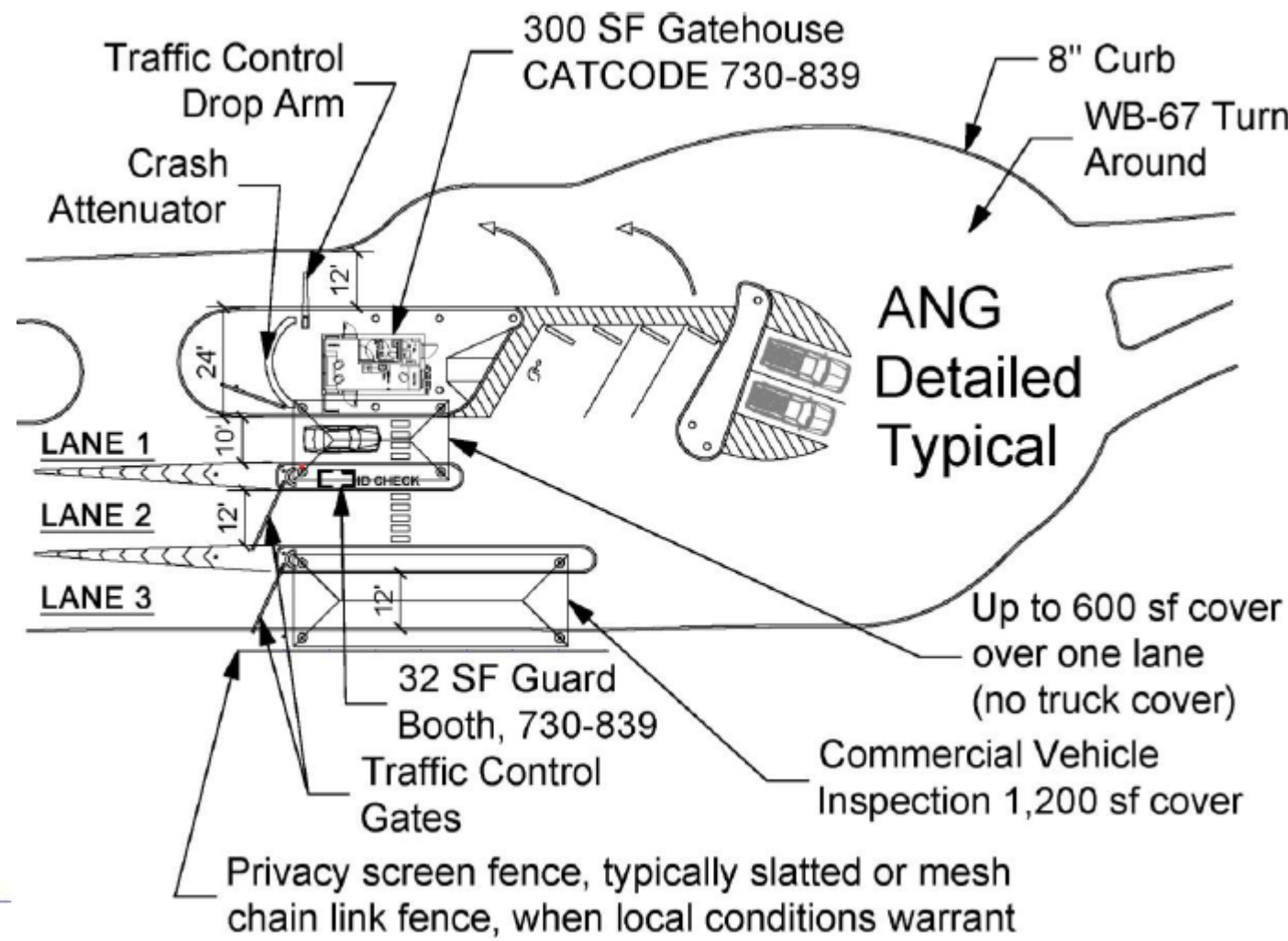
F-15EX PROPOSED CONSTRUCTION

Construct Entry Control Point (ECP)



Project ID	Facility	Height (feet)	Distance from 29R (feet)	Total Square Feet
2	ECP	23'	1,900	45K

Note: This project creates an ECP at the Munitions Dakota Gate into the Munitions Storage Area. As conditions allow, the project would include a 300 SF entry control admin facility, two 100 SF check houses, and covered canopy.





F-15EX PROPOSED CONSTRUCTION

Add/Alter M&I (B2606) & Construct MAC Pad



Project ID	Facility	Height (feet)	Distance from 29R (ft)	Total Square Feet
8	MAC Pad	25' (If Covered)	1,040	7.6K

This project modifies the existing admin space, Building 2606 (which will be re-built due to explosive safety, see Project 1) to be another pull-through munitions bay for efficiency. This project also constructs a MAC Pad.



MAC Pad Example





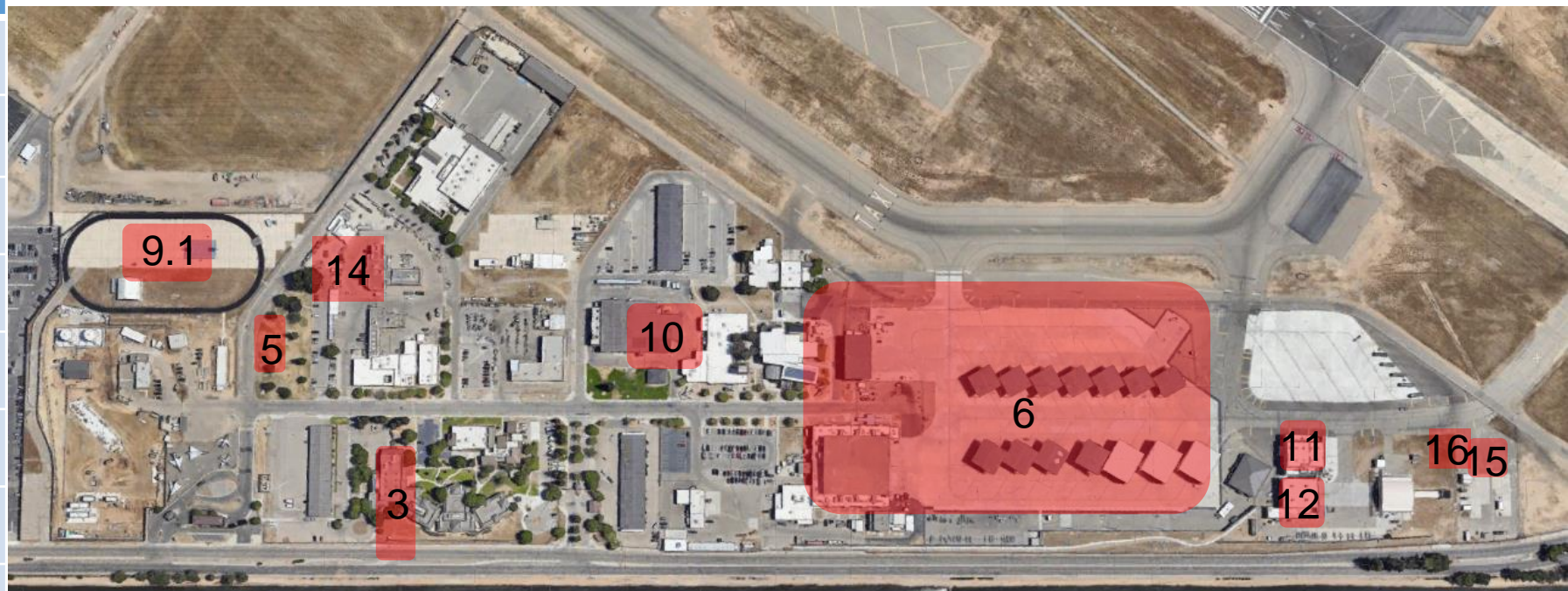
F-15EX PROPOSED CONSTRUCTION

OVERVIEW – Locational Scenario 1 (Main Base)



Project ID	Facility	Height (ft)	Distance from 29L (ft)	Total Square Feet
3	ECP Main Gate	23	1,530	45,000
5	Med Trng Facility	30	1,200	10,300
6	Apron	0	330	702,000
9.1	Fire Station	30	640	85,000
10	Ops Squadron	25	830	1,200
11	Corrosion Ctrl	40	920	8,500*
12	Fuel Cell	30	340	11,300*
14	FMS Facility	25	1,170	20,000
15	WLT Hangar	30	640	10,000
16	CFT Facility	25	300	2,300

* Internal repair only.



Project 3 – Construct Entry Ctrl Point
 Project 5 – Construct Medical Training Facility
 Project 6 – Repair Airfield Pavements
 Project 9.1 – Construct Fire Station
 Project 10 – Add/Alter Ops Squadron B194
 Project 11 – Repair Small Mx Hangar B159

Project 12 – Repair Fuel Cell HVAC (B157)
 Project 14 – Construct F-15EX Full Mission Simulator
 Project 15 – Construct Weapons Loadcrew Trainer (WLT)
 Project 16 – Construct Conformal Fuel Tank (CFT)



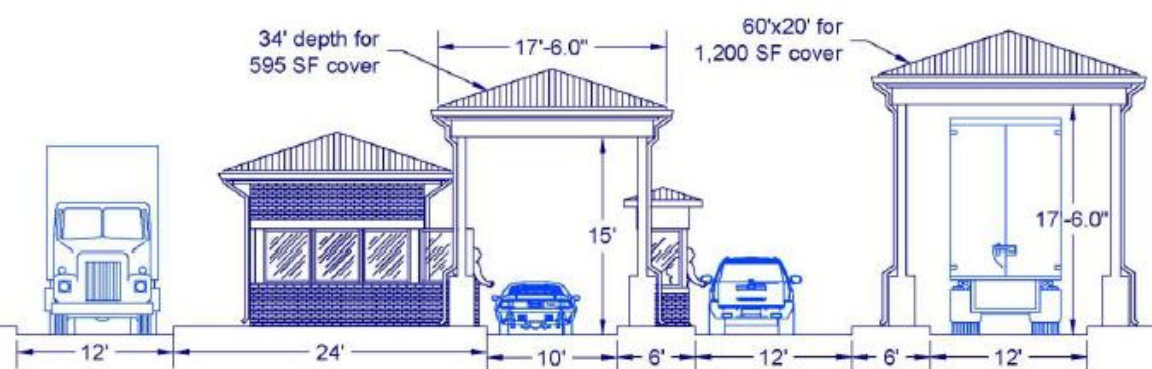
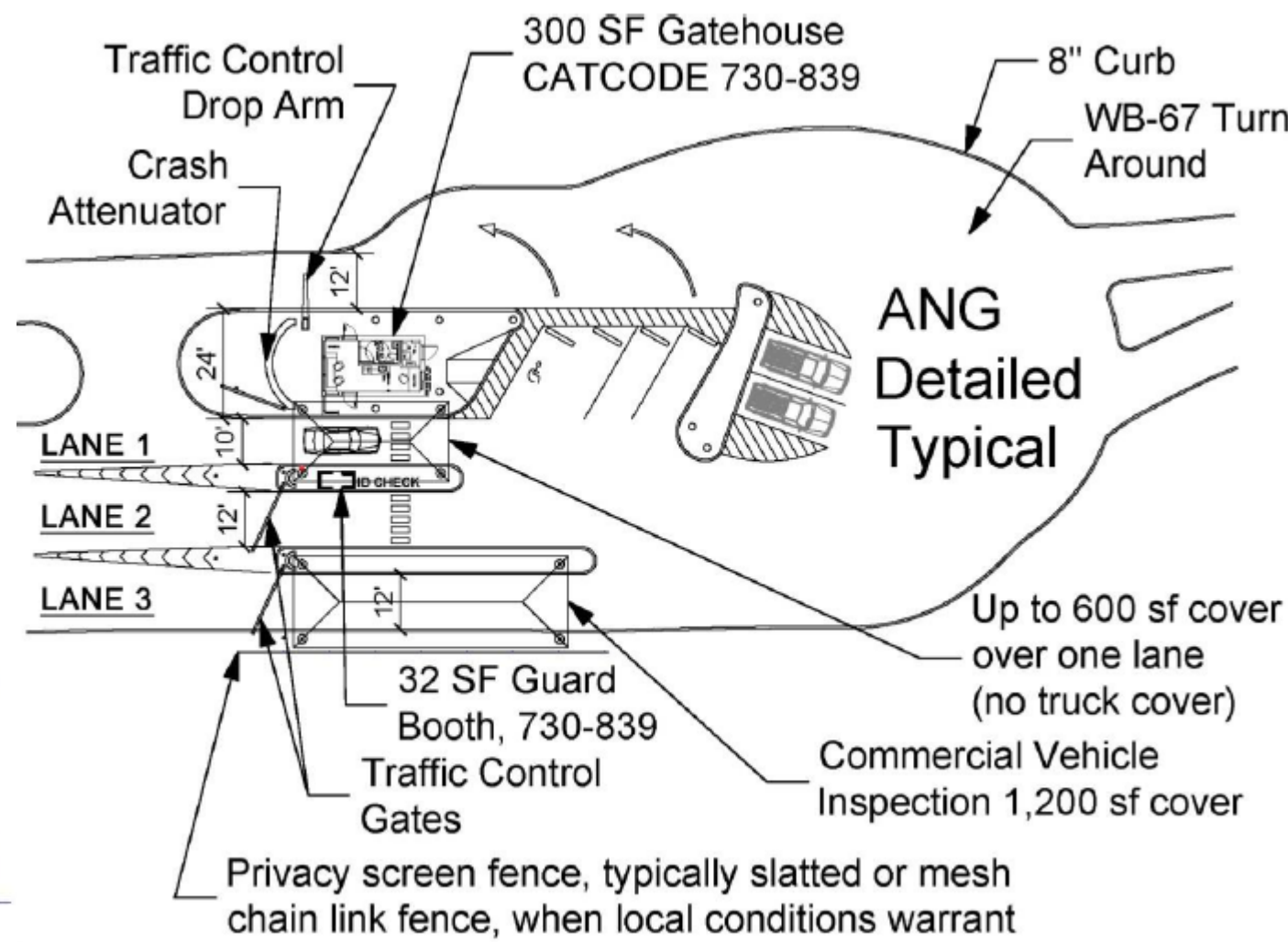
F-15EX PROPOSED CONSTRUCTION

Construct Entry Control Point (ECP)



Project ID	Facility	Height (feet)	Distance from 29L (feet)	Total Square Feet
3	Main Gate	23	1,530	45,000

Note: This project creates an ECP at the current Main Gate. As conditions allow, the project would include a 300 SF entry control admin facility, two 100 SF check houses, and covered canopy.





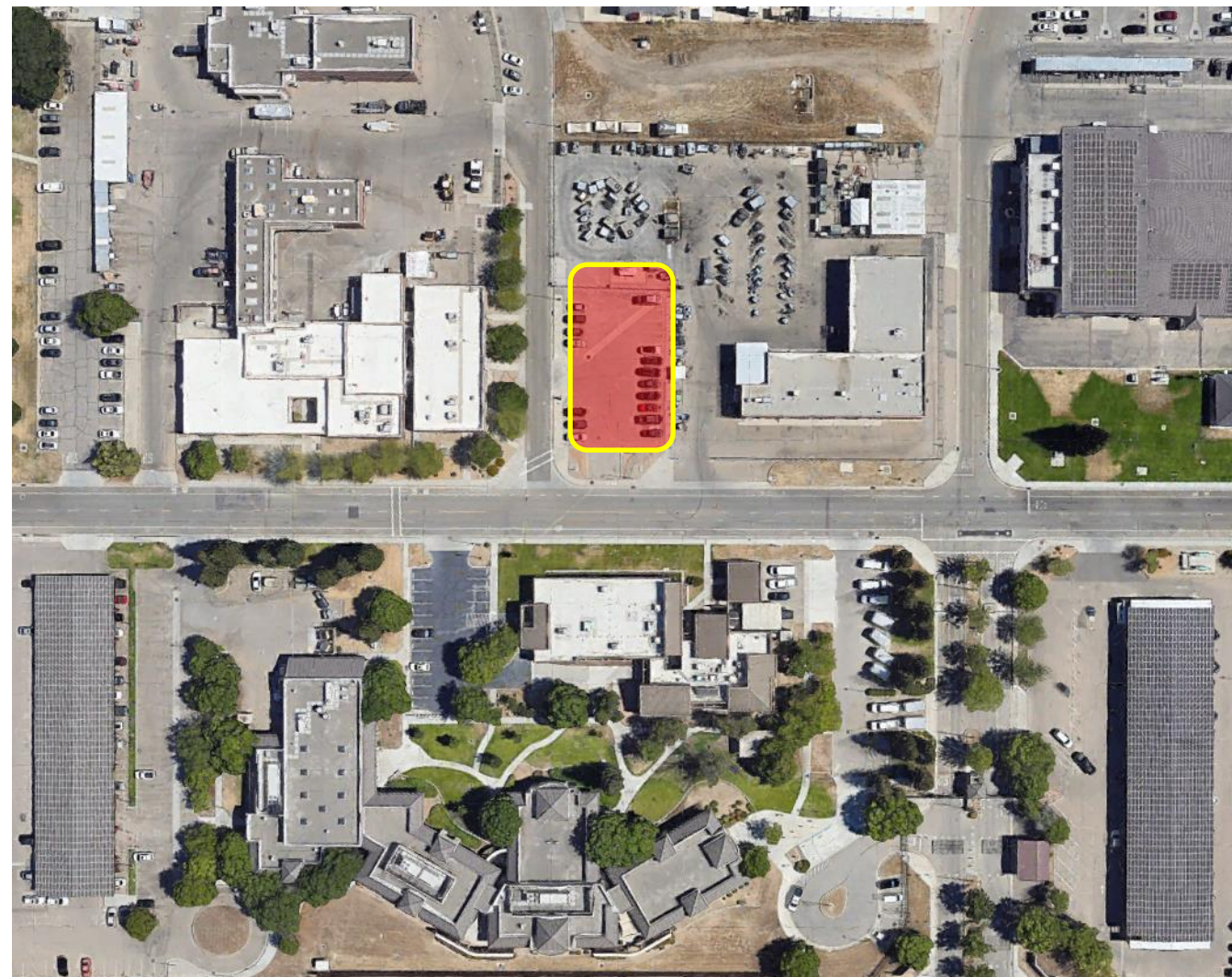
F-15EX PROPOSED CONSTRUCTION

Construct Medical Training Facility



Project ID	Facility	Height (feet)	Distance from 29L (feet)	Total Square Feet
5	Med Trng Facility	30	1,200	10,300

This new construction provides space for medical training and administration and will include areas designated for CBRNE Enhanced Response Force Package personnel and equipment to support a flying unit and state emergency responses.





F-15EX PROPOSED CONSTRUCTION

Construct Fire Station



Project ID	Facility	Height (feet)	Distance from 29L (feet)	Total Square Feet
9.1	Fire Station	30	640	85,000

Project constructs an Aircraft Rescue Fire Fighting station and associated apron and taxiway connectors for access to the airfield.





F-15EX PROPOSED CONSTRUCTION

Add/Alter Squadron Ops B194



Project ID	Facility	Height (feet)	Distance from 29L (feet)	Total Square Feet
10	Ops Squadron	25	830	1,200

Project constructs an addition to the existing facility, Building 194 and accommodates for increased secure space, administrative requirements, and administrative space for additional crew.





F-15EX PROPOSED CONSTRUCTION

Construct F-15EX Full Mission Simulator



Project ID	Facility	Height (feet)	Distance from 29L (feet)	Total Square Feet
14	FMS Facility	25	1,170	20K

This project provides a facility for four Full Mission Simulators (FMS), support systems, and associated administrative spaces.





F-15EX PROPOSED CONSTRUCTION

Construct Weapon Loadcrew Trainer



Project ID	Facility	Height (feet)	Distance from 29L (feet)	Total Square Feet
15	WLT	30	640	10,000

Project would construct a 10,000 SF single bay WLT hangar and associated pavements on the south side of the runway.

The new hangar would be located on open, undeveloped land.





F-15EX PROPOSED CONSTRUCTION

Construct Conformal Fuel Tank Facility



Project ID	Facility	Height (feet)	Distance from 29L (feet)	Total Square Feet
16	CFT Facility	25	300	2,300

This project constructs a 2,300 SF facility for maintenance of the F-15EX specific conforming fuel tanks.





F-15EX PROPOSED CONSTRUCTION OVERVIEW – LOCATIONAL SCENARIO 2





F-15EX PROPOSED CONSTRUCTION

OVERVIEW – Locational Scenario 2 (Alert North Area)



Project ID	Facility	Height (ft)	Distance from 29R (ft)	Total Square Feet
9.2	Fire Station	20'	1,350	85,500
17	Alert Spots	23'	915	63,000
18	Alert Complex	20'	1,210	280,210
19	Utilities	0'	N/A	96,000
20	Entry Ctrl Point (ECP)	20'	1,620	300

Project 9.2 – Construct Fire Station
 Project 17 – Construct Alert Spots 5 & 6
 Project 18 – Construct Alert Complex
 Project 19 – Construct Utilities
 Project 20 – Construct Entry Ctrl Point (E. Airway Blvd)





F-15EX PROPOSED CONSTRUCTION

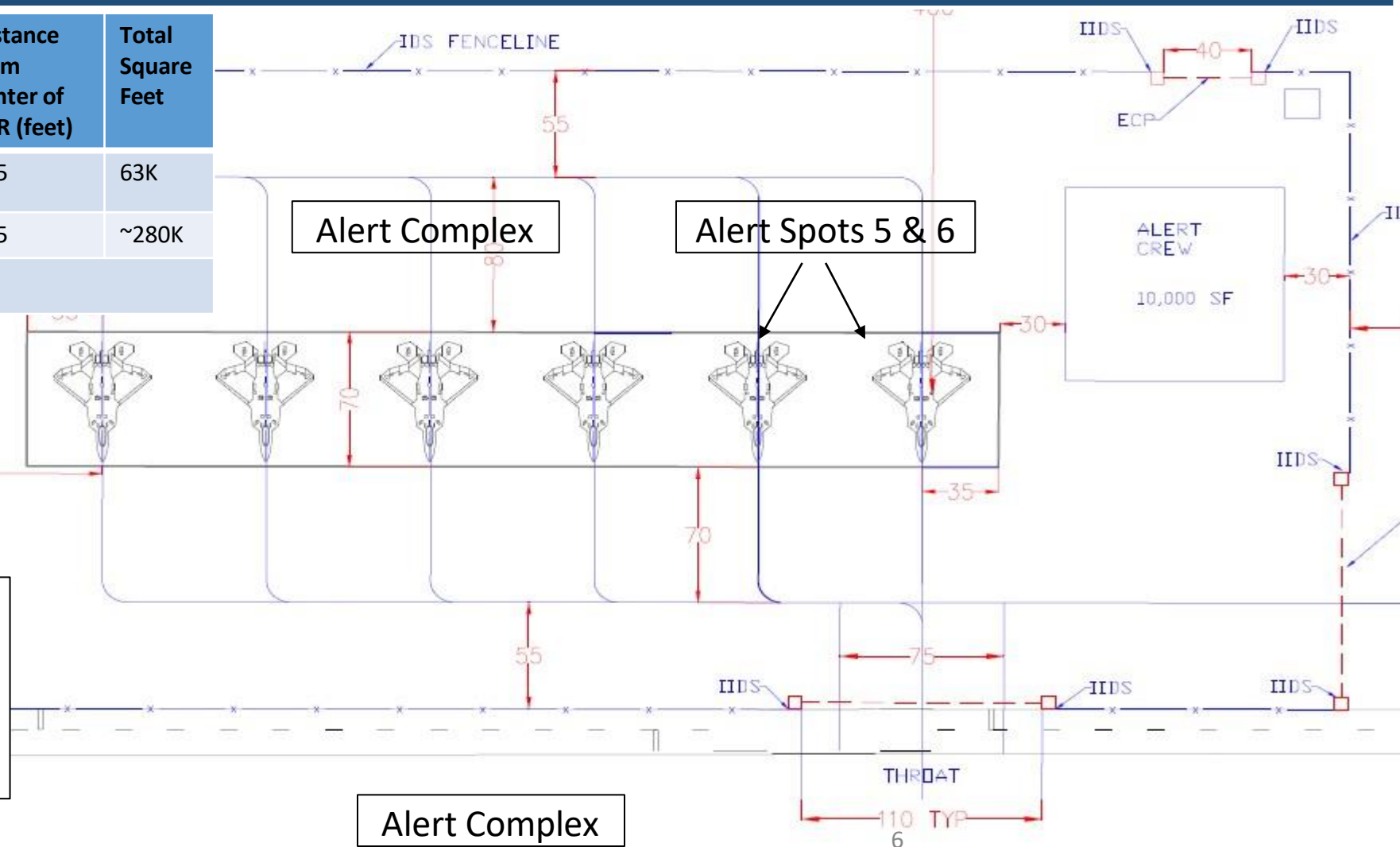
Construct Alert Complex & Spots 5&6



Project ID	Facility	Height (feet)	Distance from center of 29R (feet)	Total Square Feet
17	Alert Spots (5 & 6)	35*	935	63K
18	Alert Complex	20**	935	~280K

*Height of Aircraft Sun Shelters
**Height of Alert Crew Readiness Facility

Note: The Alert Complex project would construct an ~10,000 SF Alert Crew Readiness facility, along with a 270,000 SF adjacent aircraft parking apron for the initial four aircraft mission, taxiway connectors, and security fencing with ECP.





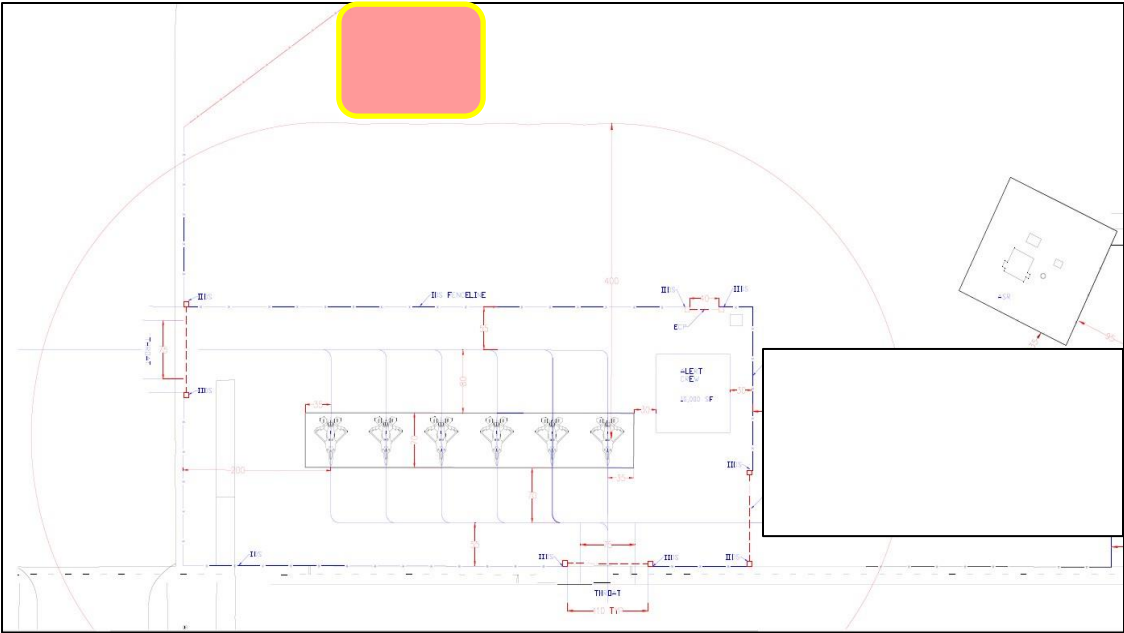
F-15EX PROPOSED CONSTRUCTION

Construct Fire Station



Project ID	Facility	Height (feet)	Distance from center of 29R (feet)	Total Square Feet
9.2	Fire Station	25	962	85,500

Project constructs an Aircraft Rescue Fire Fighting station and associated apron and taxiway connectors for access to the airfield.





F-15EX PROPOSED CONSTRUCTION

Construct Entry Control Point (ECP)



Project ID	Facility	Height (feet)	Distance from 29L (feet)	Total Square Feet
20	Entry Ctrl Point	20'	1,620	300

Note: This project creates an ECP in accordance with design standards for the Alert Complex. As conditions allow, the project would include a 300 SF entry control admin facility or check house, and covered canopy.



This page intentionally left blank.

159th Fighter Wing at NAS JRB New Orleans

This page intentionally left blank.

**Table LA-1 Proposed Construction and Modification for the F-15EX Beddown at the
159 FW Installation at NAS JRB New Orleans**

<i>Project ID</i>	<i>Project Name¹</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
1	Repair Hangar Maintenance Shops (Building 5) (Full Rehab)	Project would completely repair Hangar 5 throughout the various shops in the hangar. It would replace the existing hangar door and add a new megadoor, two passenger elevators, and service elevator. Second floor offices have an abundance of space with opportunities to utilize the spaces more efficiently.	FY 2032	Internal repair	N/A
2	Repair Avionics Building 425 for MEDGP CERF-P/ Demolish Building 144	Project would involve converting the vacant space in Building 425 (once Avionics is relocated to Building 119 [Building 119 repair project is funded in FY 2022]) into an administration space for the ANG MEDGP CERF-P activity.	FY 2028	Internal repair	N/A
3	Construct New Communications Facility	Project would construct a new 10,200 SF Communications Facility in the existing parking lot of Building 149. The current Communications Facility functions are spread throughout six facilities on base. The project will include administrative communications functions, planning and programming, Communications Focal Point and other telecommunications functions to maintain the computer network on the installation.	FY 2031	10,200 SF	N/A
4	Construct Weapons Load Facility (Building 386)	Project would construct a 20,700 SF WLT and Weapons Release Facility (Building 386). The facility would provide space for the overhaul and repair of fighter aircraft weapons release and gun systems which include bomb racks, pylons, ejection racks, and weapons loading tools/equipment. The facility also has offices, bench stock room, test equipment and spare parts. Total ground disturbance would be 25,000 SF.	FY 2031	25,000 SF	22,000 SF
5	Renovate Building 144	Project would renovate Building 144. The building houses the 159 FW Support Staff (Mental Health, Yellow Ribbon, Drug Reduction Program, etc.) and many finishes have exceeded its useful life.	FY 2024	Internal repairs	N/A

**Table LA-1 Proposed Construction and Modification for the F-15EX Beddown at the
159 FW Installation at NAS JRB New Orleans**

<i>Project ID</i>	<i>Project Name¹</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
6	Construct Parking Lot	Project would construct a 30,000 SF parking lot. It is located near Building 197 and near the old POL yard. Parking lot will be used for various organizational vehicles. Total ground disturbance would be 35,000 SF.	FY 2030	35,000 SF	30,000 SF
7	Renovate Building 119	Project would renovate Building 119 and include NDI and FAB shops for aircraft repair, maintenance and training. It will also include offices, classrooms, break room and mechanical room.	FY 2024	Internal repairs	N/A
8	Renovate Building 820	Project would renovate Building 820 which is located in Alexandra, LA. The building does not meet the current mission needs of the 259 ATCS. <i>Notes: This project is not depicted in the figures.</i>	FY 2024–2025	Internal repairs	N/A
9.1 (Option 1) 9.2 (Option 2)	ADAL Fuel Lab, Building 142	Project would involve setting up a POL Fuel Lab that meets Air Force requirements. <i>Notes: Option 1 – Renovate the Navy POL lab in Building 503 (Preferred)</i> <i>Option 2 – Construct a new 1,500 SF POL Fuel Lab addition to Building 142.</i>	FY 2029	Option 2 – 1,500 SF	Option 2 – 1,500 SF
10	Repair AGE (Building 489)	Project would construct a 500 SF additional bay on the paved west side of the AGE facility (Building 489) with two overhead doors and a 4-ton hoist with hook height of 17 feet. The project would also provide for a special foundation due to the poor soil conditions on base along with transformer and panel upgrades.	FY 2024	500 SF	N/A
11	Construct Inert MAC Pad	Project would construct a 10,000 SF concrete Inert MAC Pad on open, undeveloped land.	FY 2027	10,000 SF	10,000 SF

**Table LA-1 Proposed Construction and Modification for the F-15EX Beddown at the
159 FW Installation at NAS JRB New Orleans**

<i>Project ID</i>	<i>Project Name¹</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
12	Construct Munitions Administration Facility (Joint Navy)	Project would construct an 8,800 SF Munitions Administration Facility with a total ground disturbance of 10,000 SF. The existing administration function is currently co-located with the M&I Facility (Building 90), but the administration function cannot be collocated with M&I due to operational and safety concerns.	FY 2025	10,000 SF	9,000 SF
13	Repair Munitions M&I (Building 90)	Project would renovate the Munitions M&I Facility (Building 90) after the Munitions Administration function has moved. The renovation is required to restore the facility to a Munitions M&I facility.	FY 2027	Internal repairs	N/A
14	Repair Munitions Security Fence Line	Project would update the fence line around the munitions area after Munitions Administration is moved. The fencing would be 728 linear feet and 8 feet high, galvanized steel with 3 strands of barbwire.	FY 2027	728 LF	728 LF
15	Construct Two Munitions Igloos	Project would construct two igloos for air-to-ground munitions. The project would be a total of 5,200 SF with a total ground disturbance of 7,000 SF for the igloos. In addition, a 1,500 SF access road would need to be constructed to get access to the igloos. Location of the igloos would need to be coordinated with the Navy.	FY 2028	8,500 SF	7,500 SF
16	Repair Hangar Maintenance Shops (Building 5)	Project would repair hangar (Building 5) for the F-15EX conversion. The hangar is capable of parking six aircraft. The project would provide electrical converters. Second floor offices have an abundance of space with opportunities to utilize the spaces more efficiently.	FY 2024	Internal repair	N/A
17	ADAL Simulator Facility 5 Tons HVAC (Building 197)	Project would add 5 tons of air conditioning to support the four new simulators for the F-15EX. The project would incorporate a construction surveillance plan due to the secure space in the facility.	FY 2025	Internal repair	N/A

Table LA-1 Proposed Construction and Modification for the F-15EX Beddown at the 159 FW Installation at NAS JRB New Orleans

<i>Project ID</i>	<i>Project Name¹</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
18	Repair OHWS/JWICS Intel (Building 197)	Project would construct a 4,500 SF addition and convert 600 SF of underutilized space in Building 197 into an OHWS/JWICS facility. Notes: Current Simulator Facility.	FY 2026	Internal repair	N/A
19	ADAL Simulator Facility (Building 197)	Project would construct a 4,500 SF addition adjacent to the existing facility (Building 197) with up to 6,000 SF of ground disturbance. Project would consist of a large open space for four simulators with sufficient HVAC, with offices for instructors.	FY 2027	6,000 SF	4,500 SF
20	Fuel Cell Hangar Power Upgrade (Building 195)	Project would upgrade the power in Fuel Cell Hangar, Building 195.	FY 2025	Internal repair	N/A
21	ADAL Alert Facility	Project would add four additional bedrooms, mechanical room, ready rooms and common area to the new Alert Facility that is under construction. The project would also add a second hallway in order to not disturb current occupants during construction.	FY 2027	Internal repair	N/A
22	Repair Squadron Operations (Building 590) OHWS/JWICS	Project would upgrade electronic system for JWICS in Building 590.	FY 2027	Internal repair	N/A
23	ADAL Squadron Operations (Building 590)	Project would include repairs for OHWS which consists of physical health services for pilots and JWICS which consists of a computer network system integrated into the facility (Building 590) with communications rooms and network cabling.	FY 2027	Internal repair	N/A
24.1 (Option 1)	Ramp Shelters (up to 18 new shelters)	Project would construct up to 18 aircraft ramp shelters on existing aircraft apron surface for F-15EX aircraft if existing shelters cannot be repaired. Each aircraft shelter is approximately 5,300 SF and the total SF for 18 shelters is 95,400 SF.	FY 2028	95,400 SF	N/A

**Table LA-1 Proposed Construction and Modification for the F-15EX Beddown at the
159 FW Installation at NAS JRB New Orleans**

<i>Project ID</i>	<i>Project Name¹</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
24.2 (Option 2)	Demolish Two Ramp Shelters (#9 & #18)	Project would demolish Aircraft Shelters 9 and 18 due to apron clearance issues. The shelters would be unbolted from hardstand and removed for scrap metal.	FY 2025	N/A	N/A
24.3 (Option 3)	Ramp Shelters (up to 3 new shelters)	Project would construct up to three aircraft ramp shelters on existing aircraft apron surface. Each shelter is approximately 5,300 SF and the total for three shelters is 15,900 SF.	FY 2031	15,900 SF	N/A
25	Modify Fuel Cell for CFT Storage and Maintenance (Building 195A)	Project would modify the Fuel Cell second bay to support CFT storage and maintenance. Project would include the upgrading of the HVAC and installation of a fire suppression system.	FY 2027	Internal repair	N/A
26	Repair Fuel Cell Hangar, Building 195	Project would include renovations to the Fuel Cell Hangar (Building 195). The facility currently consists of two hangar bays separated by tool rooms and offices. One bay would be converted into a corrosion control bay with modifications made to temperature and humidity controls throughout the facility. Notes: All internal (half would remain fuel cell, other half corrosion control). According to Maj Askins, corrosion control will not occur locally on the F-35A, so this would be another maintenance hangar (the other half).	FY 2025	Internal repair	N/A
27	Add Squadron Operations CSO Lockers	Project would add lockers for the additional CSO crews in the Squadron Operations Facility, Building 590.	FY 2027	Internal repair	N/A

Note: *Year of construction is estimated and is dependent upon funding and the date the ROD is signed.

Legend: 159 FW = 159th Fighter Wing; 259 ATCS = 259th Air Traffic Control Squadron; ADAL = Addition and Alteration; AGE = Aerospace Ground Equipment; ANG = Air National Guard; CERF-P = Chemical, Biological, Radiological/Nuclear, and Explosive (CBRNE) – Enhanced Response Force Package; CFT = Conformal Fuel Tank; CSO = Combat Systems Officer; FAB = Fabrication; FY = Fiscal Year; HVAC = Heating, Ventilation, and Air Conditioning; JWICS = Joint Worldwide Intelligence Communication System; LA = Louisiana; M&I = Maintenance & Inspection; MAC = Munitions Assembly Conveyor; MEDGP = Medical Group; N/A = Not Applicable; NDI = Non-Destructive Inspection; OWHS = Optimizing Human Weapon System; POL = petroleum, oil, and lubricant; SF = square foot/feet; WTT = Weapons and Tactics Trainer.

Sources: ACC and NGB 2021d; NGB 2021f.

**Table LA-2 Proposed Construction and Modification for the F-35A Beddown at the
159 FW Installation at NAS JRB New Orleans**

<i>Project ID</i>	<i>Project Name¹</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
1	Repair Hangar Maintenance Shops (Building 5) (Full Rehab)	Project would completely repair Hangar 5 throughout the various shops in the hangar. It would replace the existing hangar door and add a new megadoor, two passenger elevators, and service elevator. Second floor offices have an abundance of space with opportunities to utilize the spaces more efficiently.	FY 2032	Internal repair	N/A
2	Repair Avionics Building 425 for MEDGP CERF-P/ Demolish Building 144	Project would involve converting the vacant space in Building 425 (once Avionics is relocated to Building 119 [Building 119 repair project is funded in FY 2022]) into an administration space for the ANG MEDGP CERF-P activity.	FY 2028	Internal repair	N/A
3	Construct New Communications Facility	Project would construct a new 10,200 SF Communications Facility in the existing parking lot of Building 149. The current Communications Facility functions are spread throughout six facilities on base. The project will include administrative communications functions, planning and programming, Communications Focal Point, and other telecommunications functions to maintain the computer network on the installation.	FY 2031	10,200 SF	N/A
4	Construct Weapons Load Facility (Building 386)	Project would construct a 20,700 SF WLT and Weapons Release Facility (Building 386). The facility would provide space for the overhaul and repair of fighter aircraft weapons release and gun systems which include bomb racks, pylons, ejection racks, and weapons loading tools/equipment. The facility also has offices, bench stock room, test equipment and spare parts. Total ground disturbance would be 25,000 SF.	FY 2031	25,000 SF	22,000 SF
5	Renovate Building 144	Project would renovate Building 144. The building houses the 159 FW Support Staff (Mental Health, Yellow Ribbon, Drug Reduction Program, etc.) and many finishes have exceeded its useful life.	FY 2024	Internal repairs	N/A

**Table LA-2 Proposed Construction and Modification for the F-35A Beddown at the
159 FW Installation at NAS JRB New Orleans**

<i>Project ID</i>	<i>Project Name¹</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
6	Construct Parking Lot	Project would construct a 30,000 SF parking lot. It is located near Building 197 and near the old POL yard. Parking lot will be used for various organizational vehicles. Total ground disturbance would be 35,000 SF.	FY 2030	35,000 SF	30,000 SF
7	Renovate Building 119	Project would renovate Building 119 and include NDI and FAB shops for aircraft repair, maintenance and training. It will also include offices, classrooms, break room and mechanical room.	FY 2024	Internal repairs	N/A
8	Renovate Building 820	Project would renovate Building 820 which is located in Alexandra, LA. The building does not meet the current mission needs of the 259 ATCS. <i>Notes: This project is not depicted in the figures.</i>	FY 2024-2025	Internal repairs	N/A
9.1 (Option 1) 9.2 (Option 2)	ADAL Fuel Lab, Building 142	Project would involve setting up a POL Fuel Lab that meets Air Force requirements. <i>Notes: Option 1 – Renovate the Navy POL lab in Building 503 (Preferred) Option 2 -Construct a new 1,500 SF POL Fuel Lab addition to Building 142.</i>	FY 2029	Option 2 – 1,500 SF	Option 2 – 1,500 SF
10	Repair AGE (Building 489)	Project would construct a 500 SF additional bay on the paved west side of the AGE facility (Building 489) with two overhead doors and a 4-ton hoist with hook height of 17 feet. The project would also provide for a special foundation due to the poor soil conditions on base along with transformer and panel upgrades.	FY 2024	500 SF	N/A
11	Construct Inert MAC Pad	Project would construct a 10,000 SF concrete Inert MAC Pad on open, undeveloped land.	FY 2027	10,000 SF	10,000 SF

**Table LA-2 Proposed Construction and Modification for the F-35A Beddown at the
159 FW Installation at NAS JRB New Orleans**

<i>Project ID</i>	<i>Project Name¹</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
12	Construct Munitions Administration Facility (Joint Navy)	Project would construct an 8,800 SF Munitions Administration Facility with a total ground disturbance of 10,000 SF. The existing administration function is currently co-located with the M&I Facility (Building 90), but the administration function cannot be collocated with M&I due to operational and safety concerns.	FY 2025	10,000 SF	9,000 SF
13	Repair Munitions M&I (Building 90)	Project would renovate the Munitions M&I Facility (Building 90) after the Munitions Administration function has moved. The renovation is required to restore the facility to a Munitions M&I facility.	FY 2027	Internal repairs	N/A
14	Repair Munitions Security Fence Line	Project would update the fence line around the munitions area after Munitions Administration is moved. The fencing would be 730 linear feet and 8 feet high, galvanized steel with 3-strands of barbwire.	FY 2027	730 LF	730 LF
15	Construct Two Munitions Igloos	Project would construct two igloos for air-to-ground munitions. The project would be a total of 5,200 SF with a total ground disturbance of 7,000 SF for the igloos. In addition, a 1,500 SF access road would need to be constructed to get access to the igloos. Location of the igloos would need to be coordinated with the Navy.	FY 2028	8,500 SF	7,500 SF
28	Construct Flight Simulator Facility	Project would construct a 20,000 SF facility with a special foundation due to the poor soil conditions on the base. The project demolishes Buildings 144, 164, or 146 (depending on the site selection). The facility will include a secure space. Notes: Building 144 is preferred to be demolished. Alternative locations are 164 or 146. Functions currently in Building 144 would be transferred to Hangar 5. Simulator needs to be as close to Operations (Building 590) as possible. Current Simulator (Building 197) will get a new function.	FY 2025	20,000 SF	N/A

**Table LA-2 Proposed Construction and Modification for the F-35A Beddown at the
159 FW Installation at NAS JRB New Orleans**

<i>Project ID</i>	<i>Project Name¹</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
29.1 (Option 1)	Demolish 3 Ramp Shelters & Reorient 3 Shelters (Option 1)	Project would demolish aircraft shelters #7–9 due to apron clearance issues and reorient the three shelters to eliminate clearance issues. Notes: Demo the three shelters that are requiring an airfield waiver; reorient (Option 1), re-use the existing 18 shelters. These would require a waiver because they are too short for the F-35 tails. In order to demolish the shelters, they would need to be unbolted from the hardstand and then removed for scrap metal.	FY 2025	N/A	N/A
29.2 (Option 2)	Demolish 18 Ramp Shelters and Replace Shelters (Options 1-3)	Project would demolish aircraft shelters #1–18 and reorient 16 new shelters to allow for a more efficient aircraft taxiing pattern on the ramp. Notes: New shelters will be oriented perpendicular to the runway. Old shelters are not large enough and would be demolished. Option 1 – Demo and reorient 16 new shelters. Option 2 – Demo and reorient 12 shelters. Option 3 – Option 1 but extend the hardstand (20,000 SF) into the grassy areas to either side, parallel to the runway. Total ground disturbance would be 30,000 SF.	FY 2025	Option 1- N/A Option 2- N/A Option 3 – 30,000 SF	Option 1- N/A Option 2- N/A Option 3 – 20,000 SF
30	Repurpose Building 197 for OHWS/JWICS Intel	Project would repurpose Building 197 for F-35A intelligence-related activities (OWHS/JWICS facility). Building 197 is the current F-15C Simulator Facility and is next door to Squadron Operations, Building 590 making it well-suited for the Intelligence activity. The facility would be in a secure space and fitted with an IDS.	FY 2026	Internal repair	N/A

**Table LA-2 Proposed Construction and Modification for the F-35A Beddown at the
159 FW Installation at NAS JRB New Orleans**

<i>Project ID</i>	<i>Project Name¹</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
31	Repair Fuel Cell, Modify Clean/Dirty (Building 195)	Project would include renovations to the Fuel Cell Hangar (Building 195). The facility currently consists of two hangar bays separated by tool rooms and offices. One bay would be converted into a corrosion control bay with modifications made to temperature and humidity controls throughout the facility. Five additional electrical drops would be required along with a major repair of the High Expansion Foam system. Notes: All internal (half would remain fuel cell, other half corrosion control). According to Maj Askins, corrosion control will not occur locally on the F-35A, so this would be another maintenance hangar (the other half).	FY 2025	Internal repair	N/A
32	Install LRS Levelator (Building 31)	Project would install a 100-inch levelator and reconfigure the loading dock with 200 cubic yards of concrete for a more efficient loading/off-loading of supplies. All external repairs would be performed on the existing hardstand.	FY 2024	N/A	N/A
33	Renovate Supply DSP (Building 31)	Project would repair the co-use Navy/ANG Supply facility (Building 31) for the DSP. Notes: Option 1 – all internal; Option 2 – Repair DSP, Building 31	FY 2027	Internal repair	N/A
34	Install Blast Deflectors	Project would install 600 feet of blast deflectors between aircraft parking spots 10–18 and the flightline facilities. Two hundred feet of separation is required behind the F-35A jetblast and that distance is unattainable due to the ramp’s close proximity to the flightline facilities. Low level vehicle jersey barriers would be replaced with blast deflectors on top of the existing pavement.	FY 2026	N/A.	N/A
35	Repair Engine Shop (Building 385)/Recertify Crane (Building 385B)	Project would recertify the crane and perform structural repairs as necessary.	FY 2027	Internal repair	N/A

**Table LA-2 Proposed Construction and Modification for the F-35A Beddown at the
159 FW Installation at NAS JRB New Orleans**

<i>Project ID</i>	<i>Project Name¹</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
36	Repair Supply DSP Roll Up Doors (Option 1) (Buildings 195A/ Building 385A)	Project would replace five 12-foot by 14-foot overhead doors, five 12-foot by 12-foot overhead doors and two 30-foot by 60-foot aircraft doors.	FY 2026	Internal repair	N/A
37	Repair Squadron Operations Vault (Building 590)	Project would modify the 1,600 SF storage room for the ALIS and Administration to secure facility standards in Building 590. The ALIS/Administration Room will be adjacent to the Mission Planning Room and Mission Briefing Room and will be equipped with an IDS.	FY 2024	Internal repair	N/A
38	Repair Hangar Maintenance Shops (Building 5)	The hangar (Building 5) is capable of parking six aircraft. The Machine Shop and Sheet Metal Shops will be relocated to another facility as part of a current mission FY 2022 SRM project. The current Hydraulic Shop is not required for the F-35A. As a result, these three shop areas would provide spaces for F-35A maintenance functions. Due to the size of the hangar, two elevators would be required. A Battery Shop would also be required for this facility. Second floor offices have an abundance of space with opportunities to utilize the spaces more efficiently. Adds four electrical converters and associated wiring.	FY 2025	Internal repair	N/A
39	Repair LRS (HVAC) (Building 31)	Project would update the failing HVAC system within the ANG held portions of Building 31.	FY 2026	Internal repair	N/A

Note: *Year of construction is estimated and is dependent upon funding.

Legend: 159 FW = 159th Fighter Wing; 259 ATCS = 259th Air Traffic Control Squadron; ADAL = Addition and Alteration; AGE = Aerospace Ground Equipment; ALIS = Autonomic Logistics Information System; ANG = Air National Guard; CERF-P = Chemical, Biological, Radiological/Nuclear, and Explosive (CBRNE) – Enhanced Response Force Package; DSP = Defense Support Program; FAB = Fabrication; FY = Fiscal Year; HVAC = Heating, Ventilation, and Air Conditioning; IDS = Intrusion Detection System; JWICS = Joint Worldwide Intelligence Communication System; LF = linear foot/feet; LRS = Logistics Readiness Squadron; M&I = Maintenance & Inspection; MAC = Munitions Assembly Conveyor; MEDGP = Medical Group; N/A = Not Applicable; NDI = Non-Destructive Inspection; OWHS = Optimizing Human Weapon System; POL = petroleum, oil, and lubricant; SF = square foot/feet; SRM = Facilities Sustainment, Restoration; WLT = Weapons Load Crew Training.

Sources: ACC and NGB 2021d; NGB 2021g.

**Table LA-3 Proposed Construction and Modification for the Legacy Aircraft at the
159 FW Installation at NAS JRB New Orleans**

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
1	Repair Hangar Maintenance Shops (Building 5) (Full Rehab)	Project would completely repair Hangar 5 throughout the various shops in the hangar. It would replace the existing hangar door and add a new megadoor, two passenger elevators, and service elevator. Second floor offices have an abundance of space with opportunities to utilize the spaces more efficiently.	FY 2032	Internal repair	N/A
2	Repair Avionics Building 425 for MEDGP CERF-P/ Demolish Building 144	Project would involve converting the vacant space in Building 425 (once Avionics is relocated to Building 119 [Building 119 repair project is funded in FY 2022]) into an administration space for the ANG MEDGP CERF-P activity.	FY 2028	Internal repair	N/A
3	Construct New Communications Facility	Project would construct a new 10,200 SF Communications Facility in the existing parking lot of Building 149. The current Communications Facility functions are spread throughout six facilities on base. The project will include administrative communications functions, planning and programming, Communications Focal Point and other telecommunications functions to maintain the computer network on the installation.	FY 2031	10,200 SF	N/A
4	Construct Weapons Load Facility (Building 386)	Project would construct a 20,700 SF WLT and Weapons Release Facility (Building 386). The facility would provide space for the overhaul and repair of fighter aircraft weapons release and gun systems which include bomb racks, pylons, ejection racks, and weapons loading tools/equipment. The facility also has offices, bench stock room, test equipment and spare parts. Total ground disturbance would be 25,000 SF.	FY 2031	25,000 SF	22,000 SF
5	Renovate Building 144	Project would renovate Building 144. The building houses the 159 FW Support Staff (Mental Health, Yellow Ribbon, Drug Reduction Program, etc.) and many finishes have exceeded its useful life.	FY 2024	Internal repairs	N/A

**Table LA-3 Proposed Construction and Modification for the Legacy Aircraft at the
159 FW Installation at NAS JRB New Orleans**

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
6	Construct Parking Lot	Project would construct a 30,000 SF parking lot. It is located near Building 197 and near the old POL yard. Parking lot will be used for various organizational vehicles. Total ground disturbance would be 35,000 SF.	FY 2030	35,000 SF	30,000 SF
7	Renovate Building 119	Project would renovate Building 119 and include NDI and FAB shops for aircraft repair, maintenance and training. It will also include offices, classrooms, break room and mechanical room.	FY 2024	Internal repairs	N/A
8	Renovate Building 820	Project would renovate Building 820 which is located in Alexandra, LA. The building does not meet the current mission needs of the 259 ATCS. <i>Notes: This project is not depicted in the figures.</i>	FY 2024-2025	Internal repairs	N/A
9.1 (Option 1) 9.2 (Option 2)	ADAL Fuel Lab, Building 142	Project would involve setting up a POL Fuel Lab that meets Air Force requirements. <i>Notes: Option 1 – Renovate the Navy POL lab in Building 503 (Preferred)</i> <i>Option 2 – Construct a new 1,500 SF POL Fuel Lab addition to Building 142.</i>	FY 2029	Option 2 – 1,500 SF	Option 2 – 1,500 SF

**Table LA-3 Proposed Construction and Modification for the Legacy Aircraft at the
159 FW Installation at NAS JRB New Orleans**

<i>Project ID</i>	<i>Project Name</i>	<i>Description</i>	<i>Anticipated Year of Implementation*</i>	<i>Approximate Total Area of New Ground Disturbance (SF)</i>	<i>Approximate New Impervious Surface (SF)</i>
40	Construct Munitions Administration Facility	Project would construct a new 8,800 SF Munitions Administration Facility (not with the Navy). The facility would consist of drive through work bays, office space, control center, training areas, inert storage and latrines. No munitions are stored or maintained in this facility and the facility is sited outside of any Quantity-Distance explosive arc. Total ground disturbance would be 10,000 SF.	FY 2031	10,000 SF	9,000 SF

Note: *Year of construction is estimated and is dependent upon funding.

Legend: 159 FW = 159th Fighter Wing; 259 ATCS = 259th Air Traffic Control Squadron; ADAL = Addition and Alteration; ANG = Air National Guard; CERF-P = Chemical, Biological, Radiological/Nuclear, and Explosive (CBRNE) – Enhanced Response Force Package; FAB = Fabrication; FY = Fiscal Year; LA = Louisiana; MEDGP = Medical Group; N/A = Not Applicable; NDI = Non-Destructive Inspection; POL = petroleum, oil, and lubricant; SF = square foot/feet; WLT = Weapons Load Crew Training.

Source: 159 FW 2022.

There are no construction footprints for NAS JRB New Orleans as it is a Navy installation and the footprints were not required for FAA analysis.

This page intentionally left blank.