



I-15 E&A **SOUTH**

***I-15 SOUTH ENVIRONMENTAL ASSESSMENT
VOLUME 2***

UDOT PROJECT NO. F-115-1(66)0

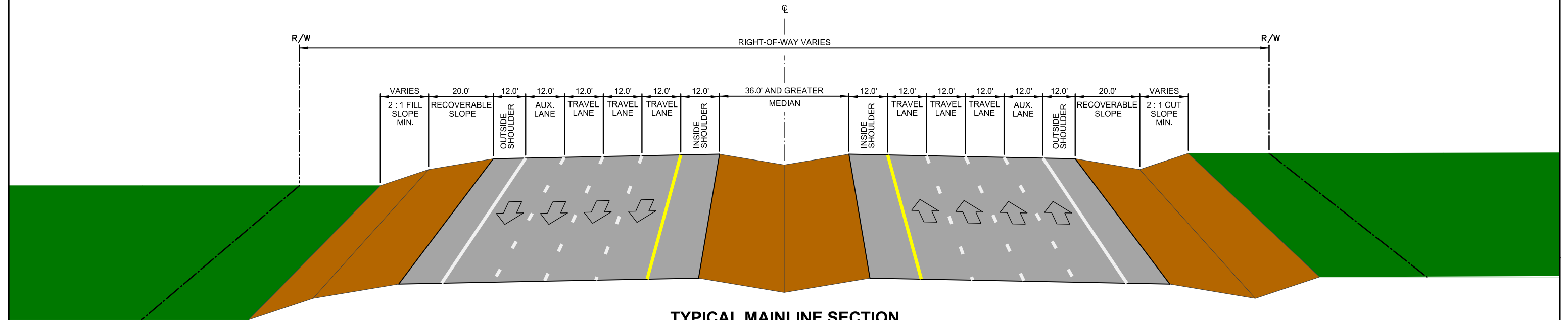
***WASHINGTON COUNTY, UTAH
SUBMITTED PURSUANT TO 42 USC 4332(2)(C)***

***U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION***

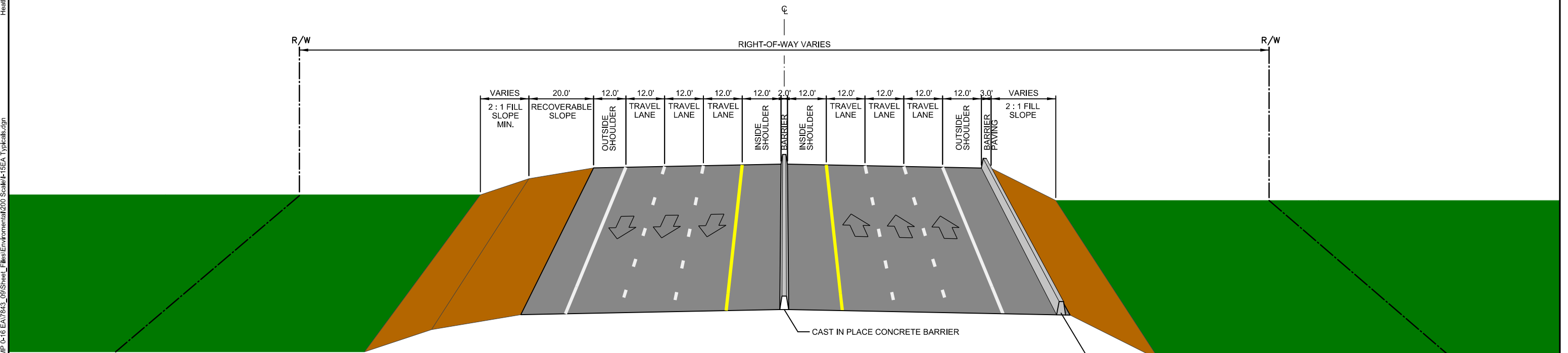
AND UTAH DEPARTMENT OF TRANSPORTATION

JULY 2012

I-15, MP-0 TO MP-16, 6 LANE



**TYPICAL MAINLINE SECTION
WITH AUXILIARY LANES
CLEAR ZONE = 30.0'**



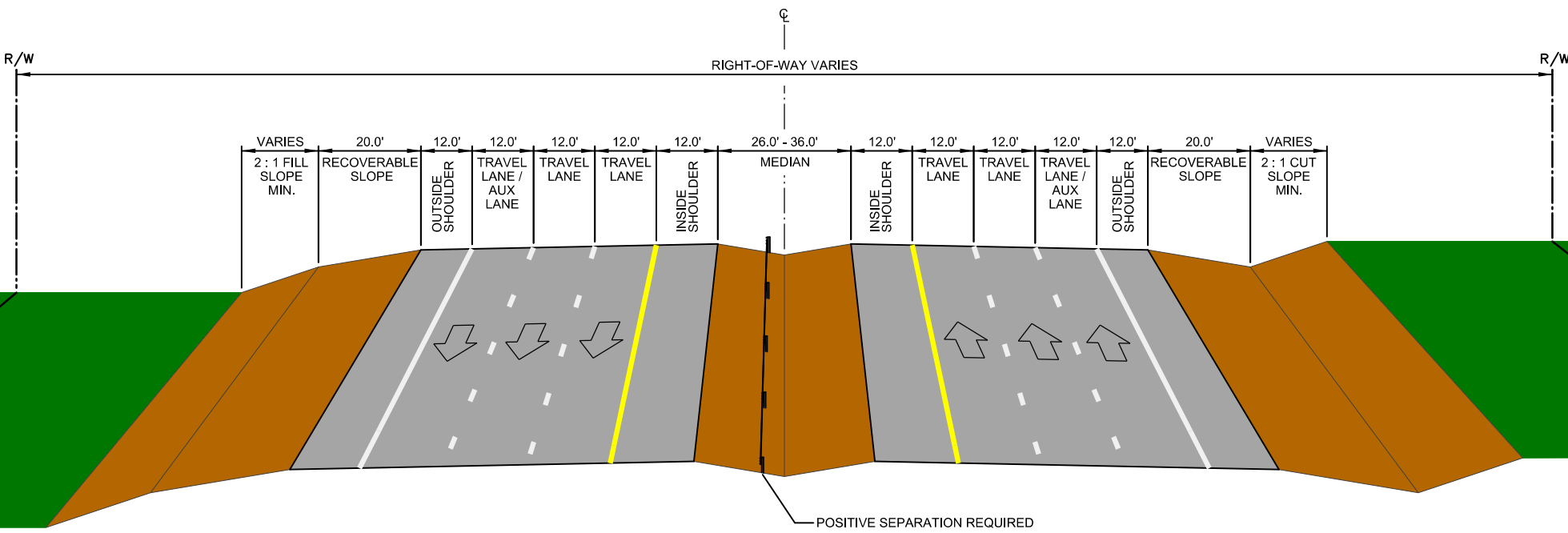
**TYPICAL MAINLINE SECTION
WITH BARRIERS
CLEAR ZONE = 30.0'**

Heather (2)

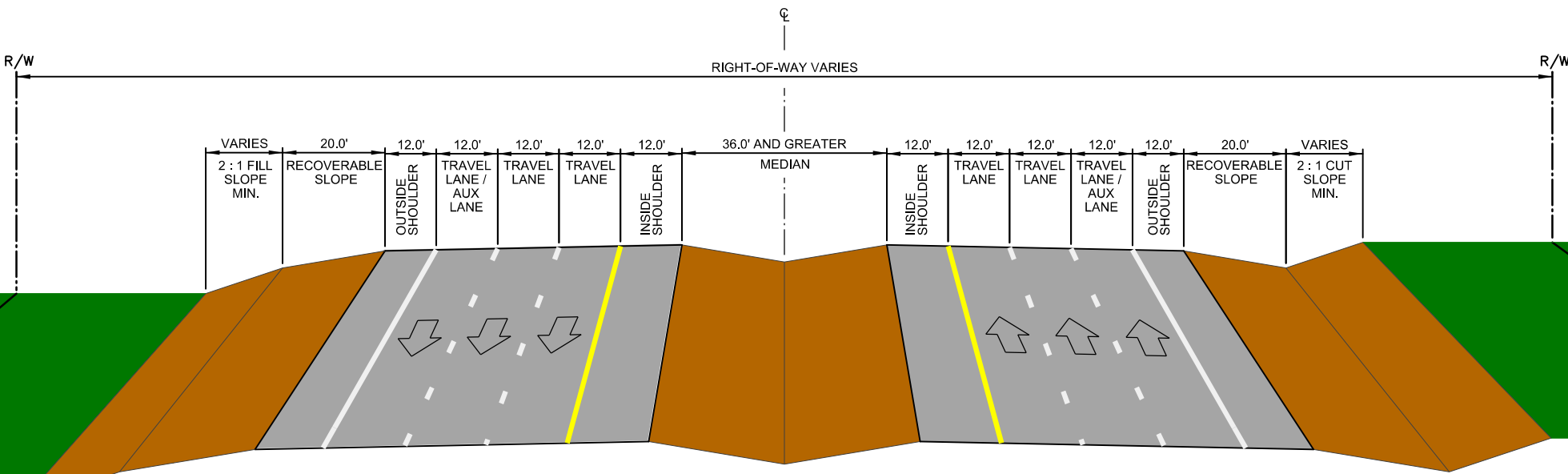
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I-15, MP-0 TO MP-16, 6 LANE



**TYPICAL MAINLINE SECTION
WITH MEDIAN FROM 26.0' TO 36.0'
CLEAR ZONE = 30.0'**



**TYPICAL MAINLINE SECTION
WITH MEDIAN GREATER THAN 36.0'
CLEAR ZONE = 30.0'**

Heather (2)

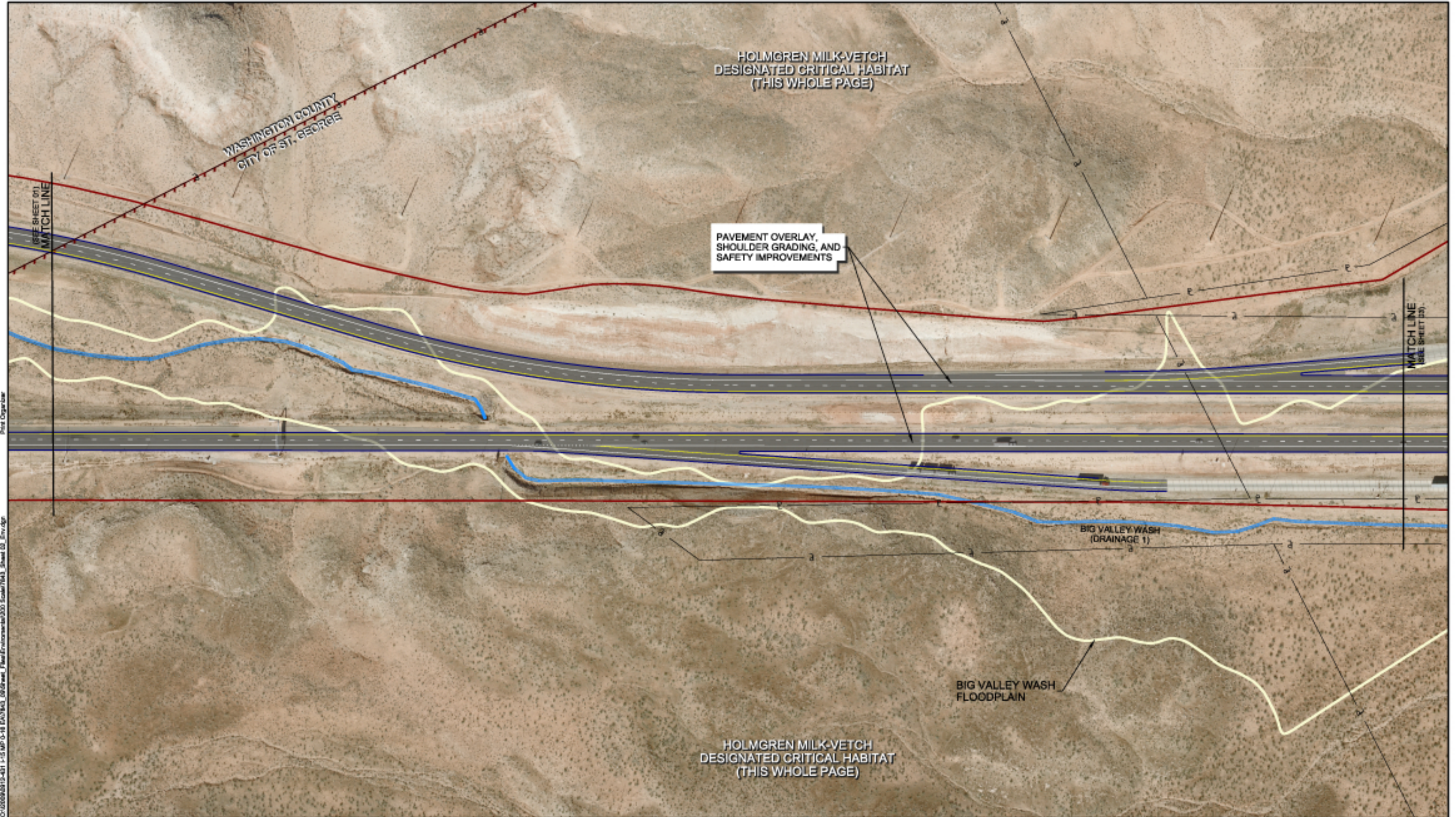
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 Plot Organizer

LEGEND STUDY AREA WETLANDS/WATERS OF THE U.S. HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT		RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT) CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER PUBLIC PARKS / GOLF COURSES (SECTION 4(f))		NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1) NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS POTENTIAL NOISE WALL		HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1) POSSIBLE DETENTION BASIN 100 YEAR FLOODPLAIN		RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1) TRAIL (SECTION 4(f))			I-15 MP 0-16 SHEET 01

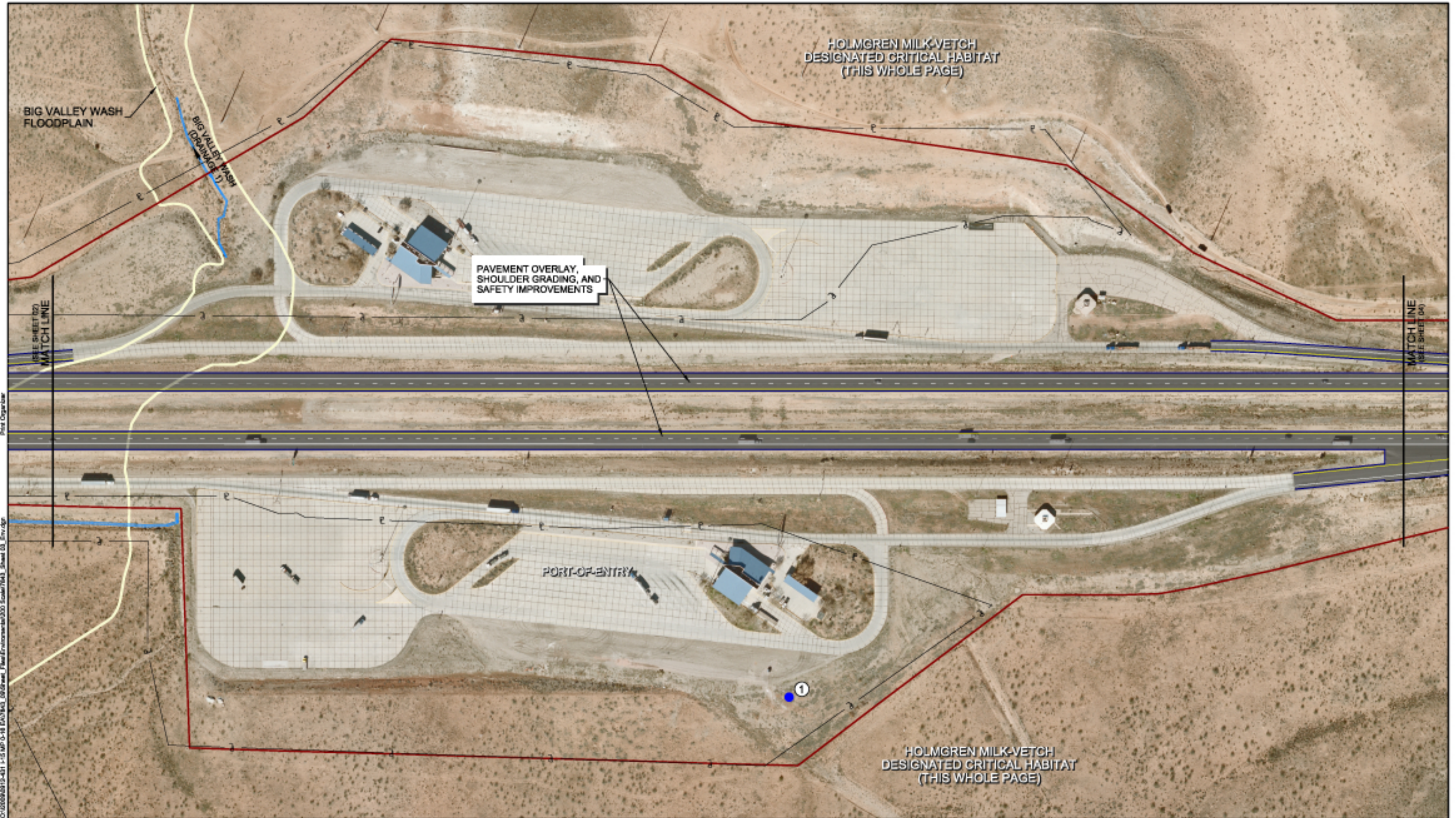


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WETLANDS/WATERS OF THE U.S.	CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER	NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS	POSSIBLE DETENTION BASIN	TRAIL (SECTION 4(f))	
HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT	PUBLIC PARKS / GOLF COURSES (SECTION 4(f))	POTENTIAL NOISE WALL	100 YEAR FLOODPLAIN		

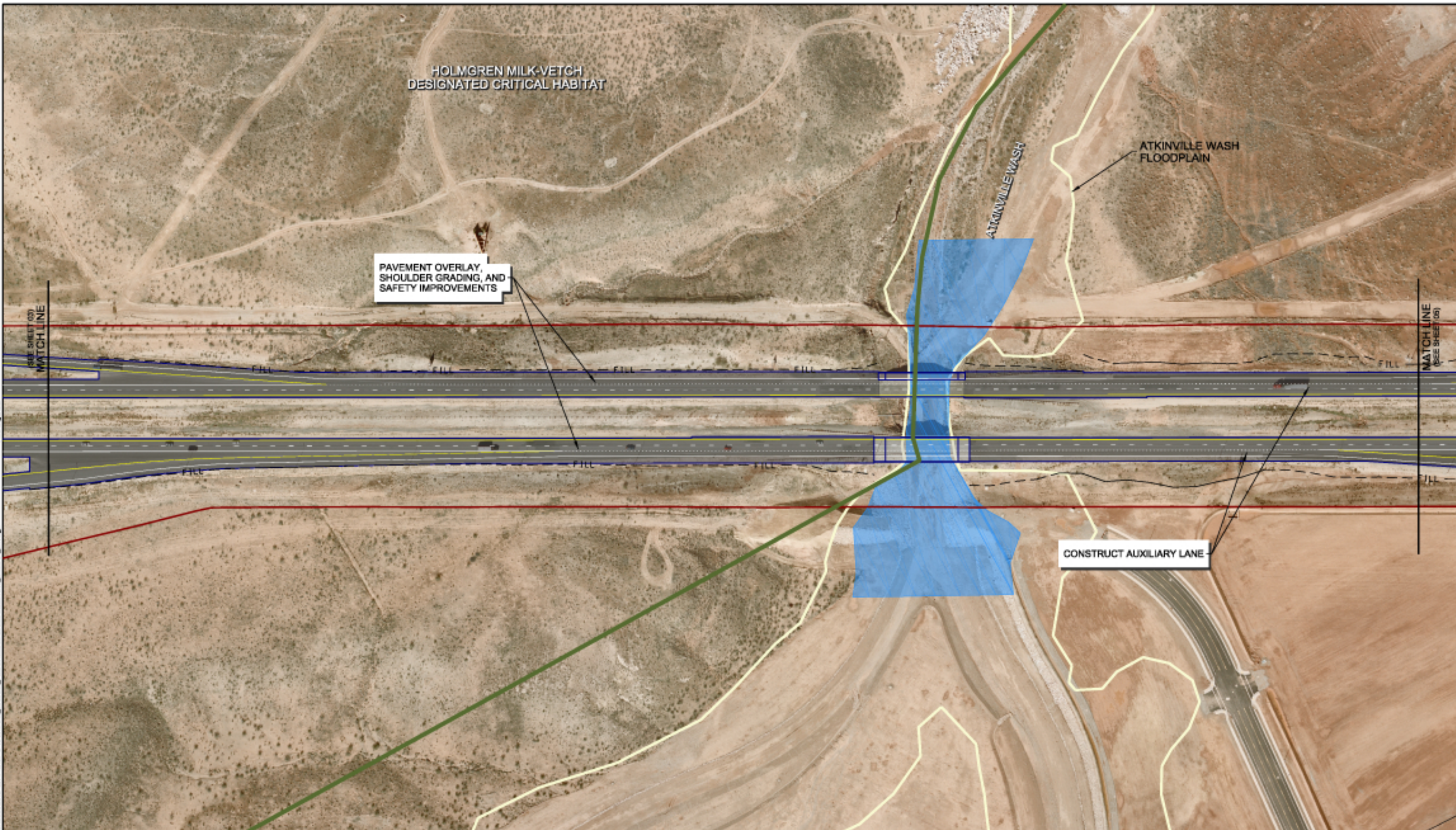
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**I-15 MP 0-16
SHEET 02**



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LEGEND		<p> NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1)</p> <p> NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS</p> <p> POTENTIAL NOISE WALL</p>	<p> HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1)</p> <p> POSSIBLE DETENTION BASIN</p> <p> 100 YEAR FLOODPLAIN</p>	<p> RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1)</p> <p> TRAIL (SECTION 4(f))</p>	<p></p> <p> 0 100 200 FEET</p>	<p>I-15 MP 0-16</p> <p>SHEET 03</p>
<p> STUDY AREA</p> <p> WETLANDS/WATERS OF THE U.S.</p> <p> HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT</p>	<p> RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT)</p> <p> CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER</p> <p> PUBLIC PARKS / GOLF COURSES (SECTION 4(f))</p>					

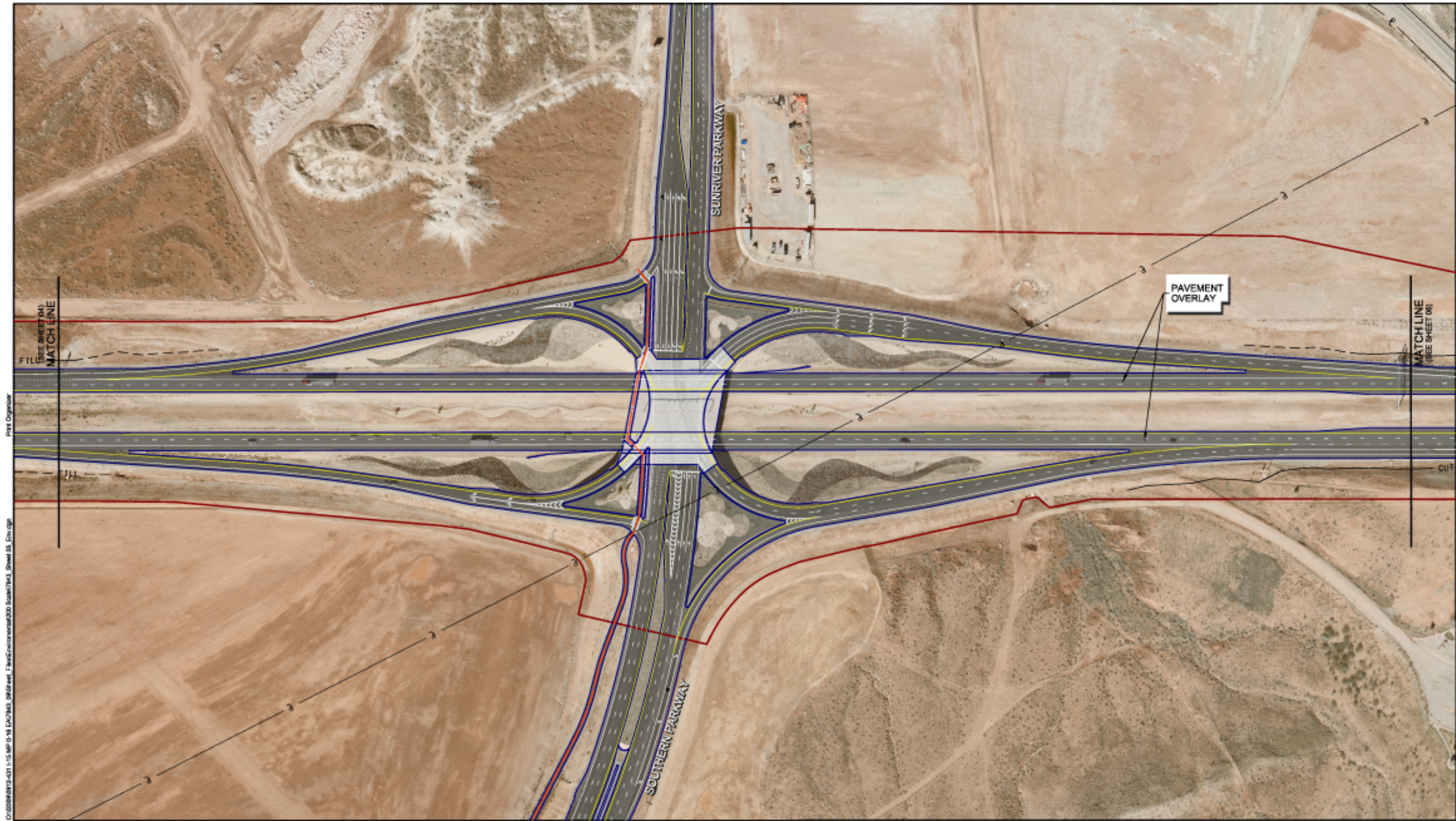


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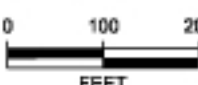
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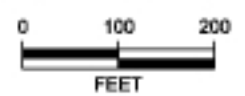
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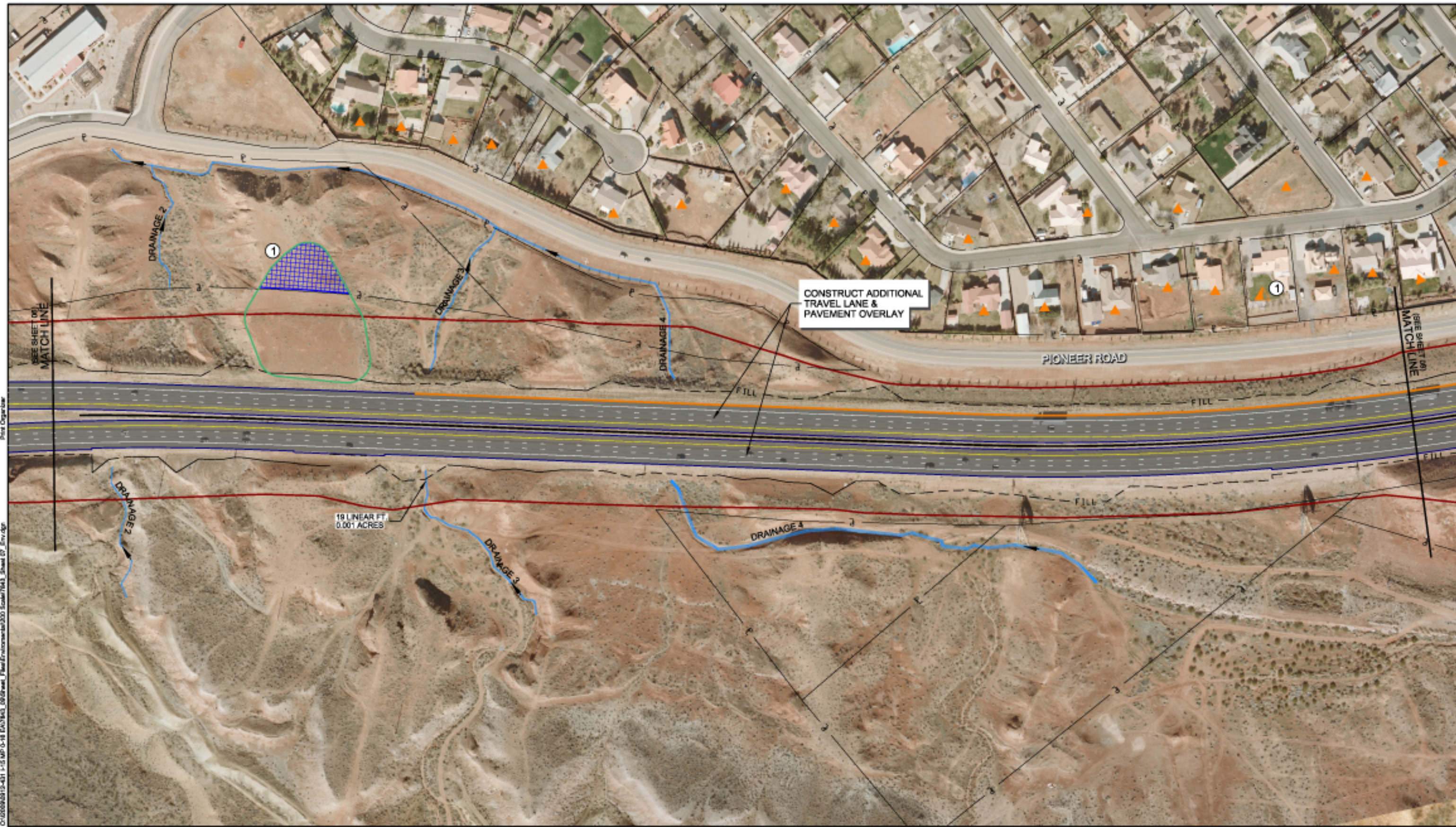


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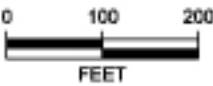
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	CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER
	PUBLIC PARKS / GOLF COURSES (SECTION 4(f))
	NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1)
	NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS
	POTENTIAL NOISE WALL
	HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1)
	POSSIBLE DETENTION BASIN
	100 YEAR FLOODPLAIN
	RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1)
	TRAIL (SECTION 4(f))



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SHEET 06



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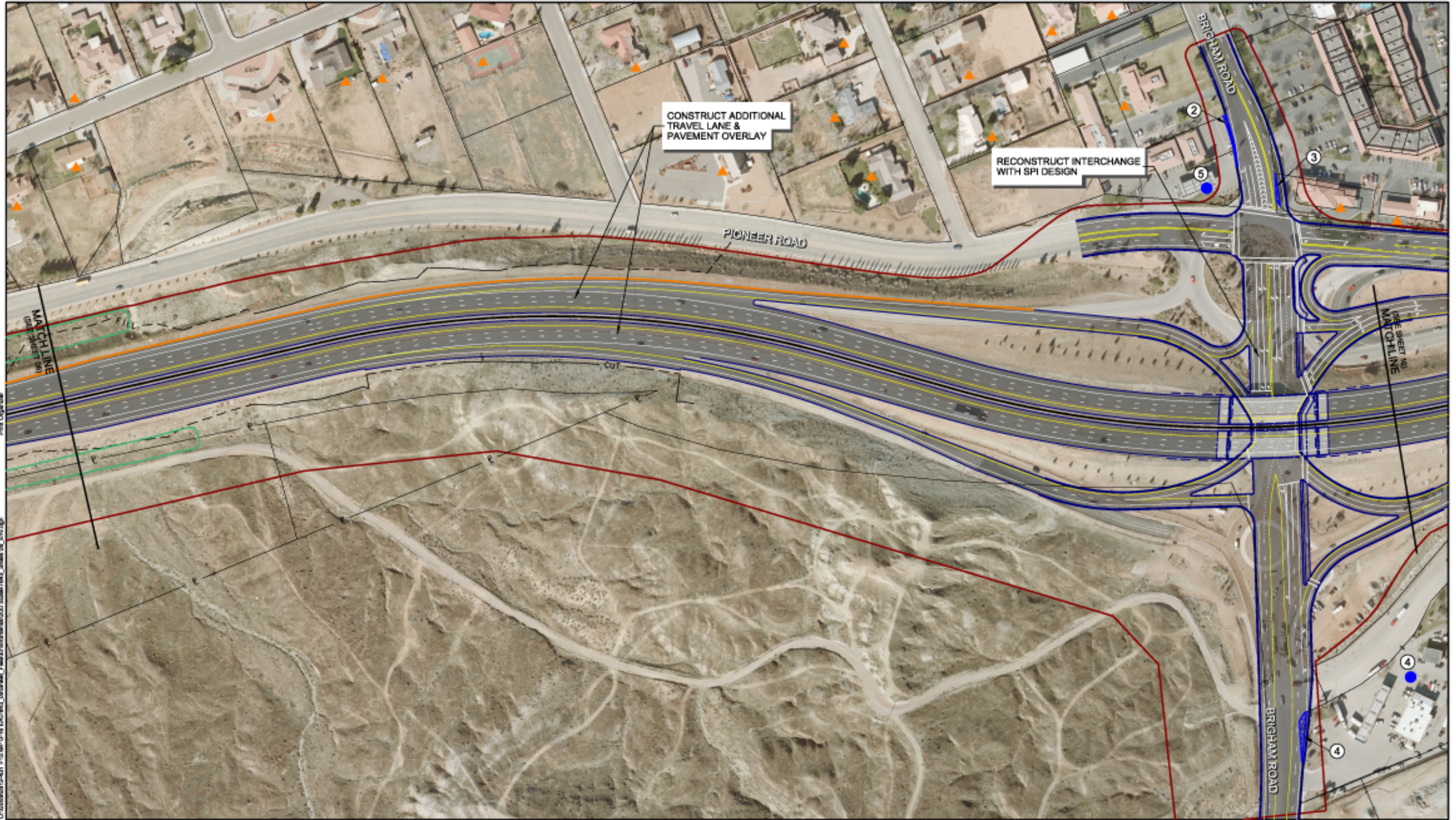


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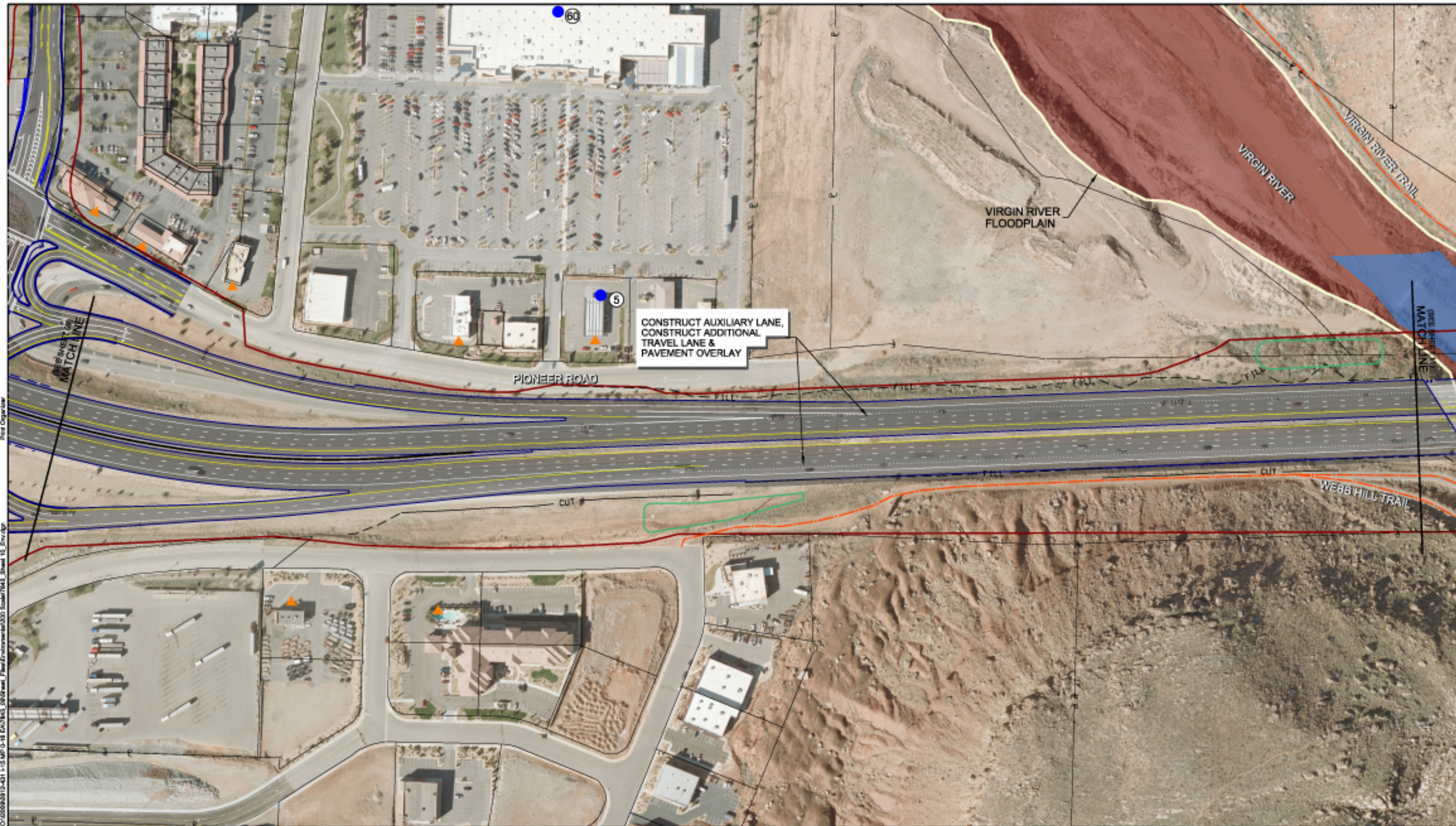
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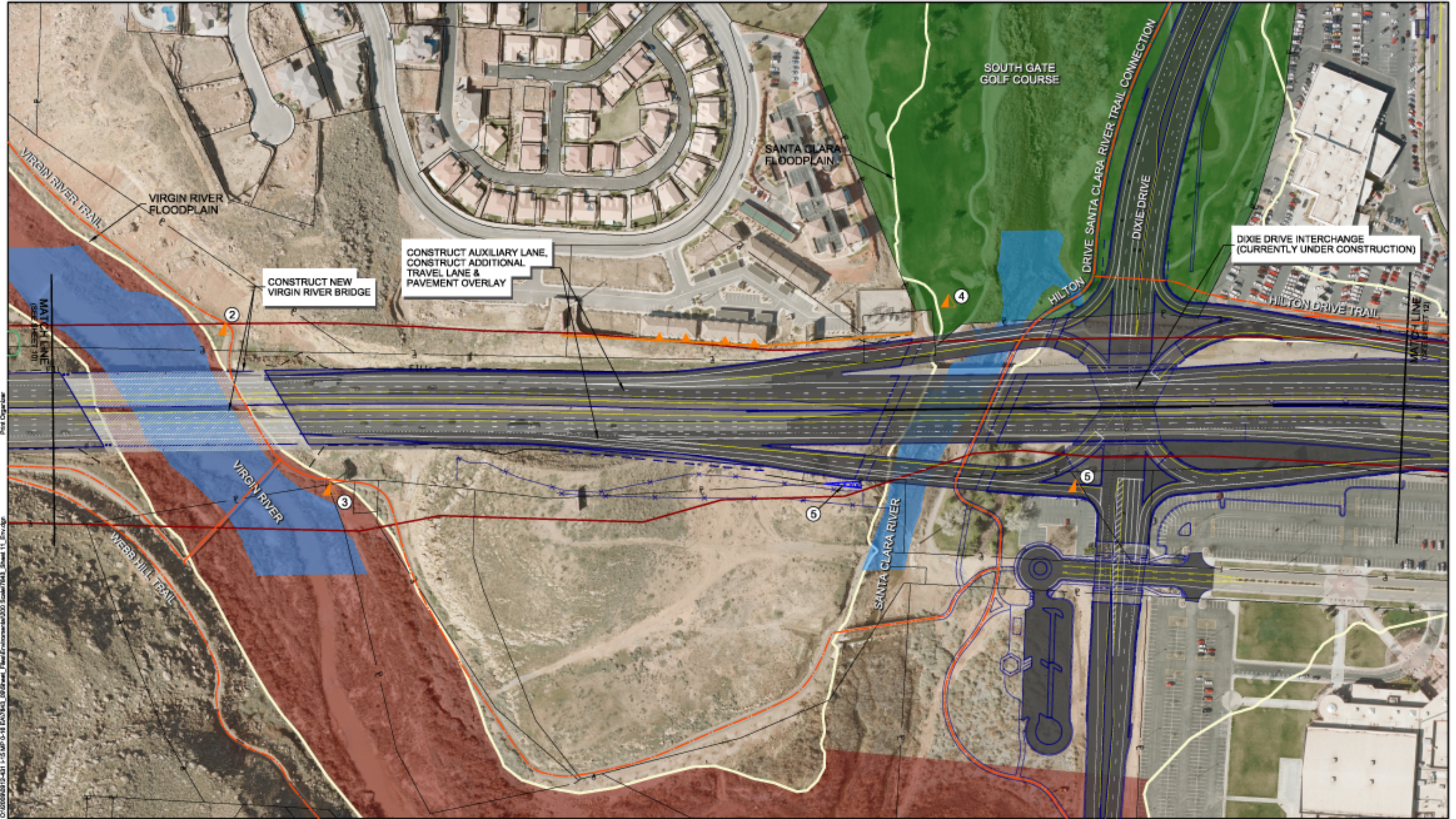
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	WETLANDS/WATERS OF THE U.S.		CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER		POSSIBLE DETENTION BASIN
	HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT		PUBLIC PARKS / GOLF COURSES (SECTION 4(f))		100 YEAR FLOODPLAIN
	NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1)		POTENTIAL NOISE WALL		RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1)
	NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS				TRAIL (SECTION 4(f))

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SHEET 09



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LEGEND STUDY AREA WETLANDS/WATERS OF THE U.S. HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT		RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT) CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER PUBLIC PARKS / GOLF COURSES (SECTION 4(f))		NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1) NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS POTENTIAL NOISE WALL		HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1) POSSIBLE DETENTION BASIN 100 YEAR FLOODPLAIN		RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1) TRAIL (SECTION 4(f))			I-15 MP 0-16 SHEET 10
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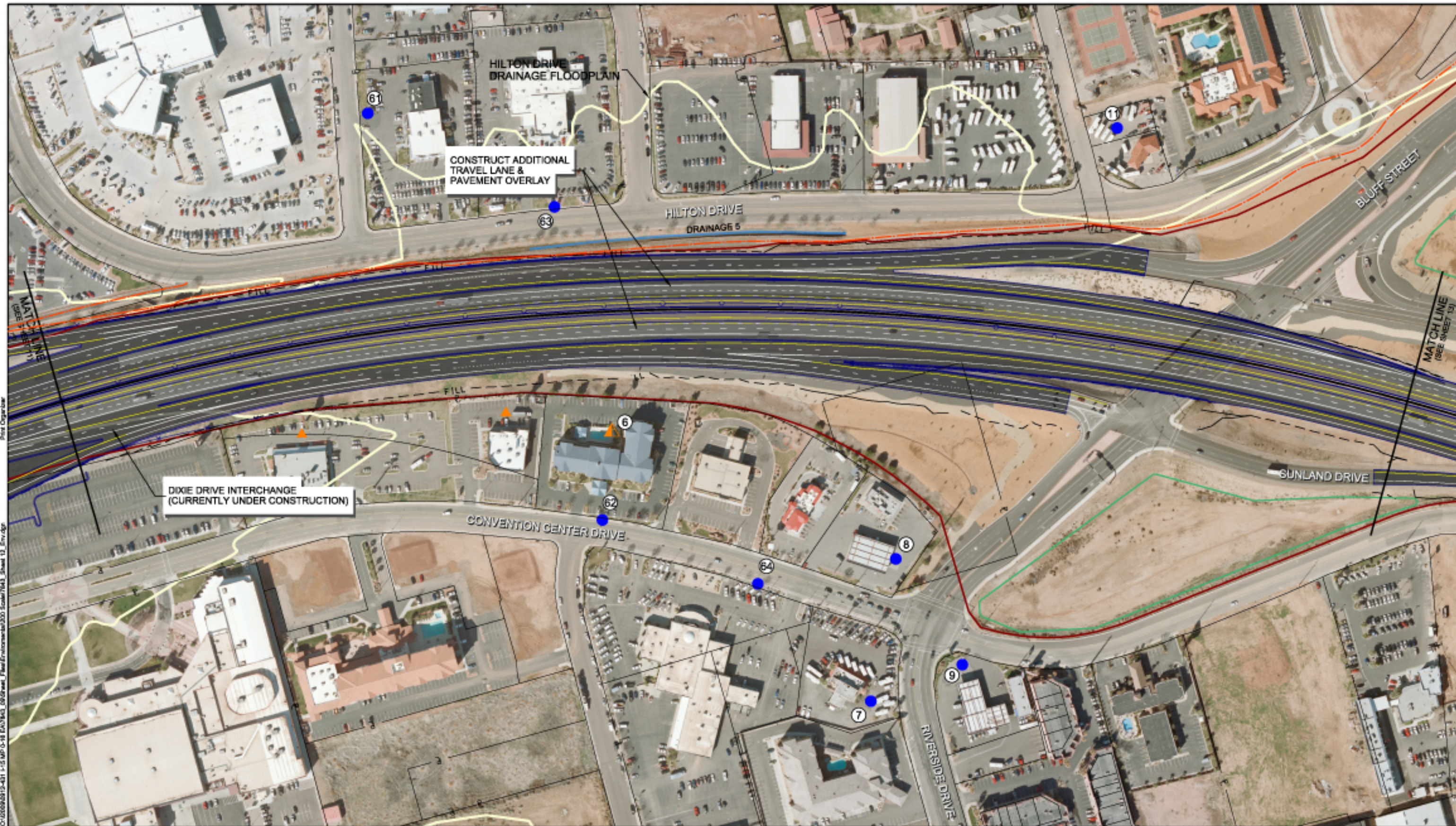


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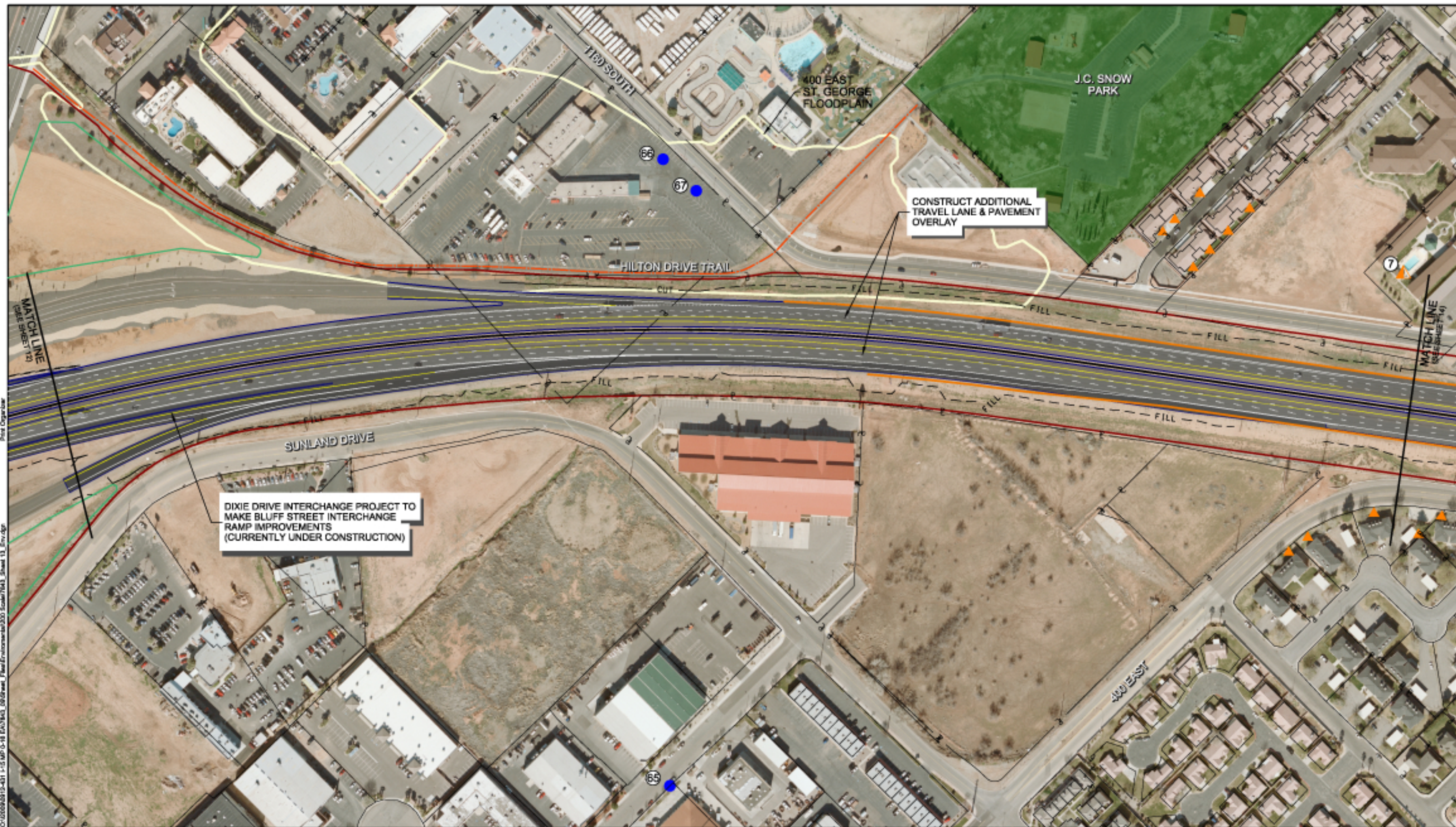
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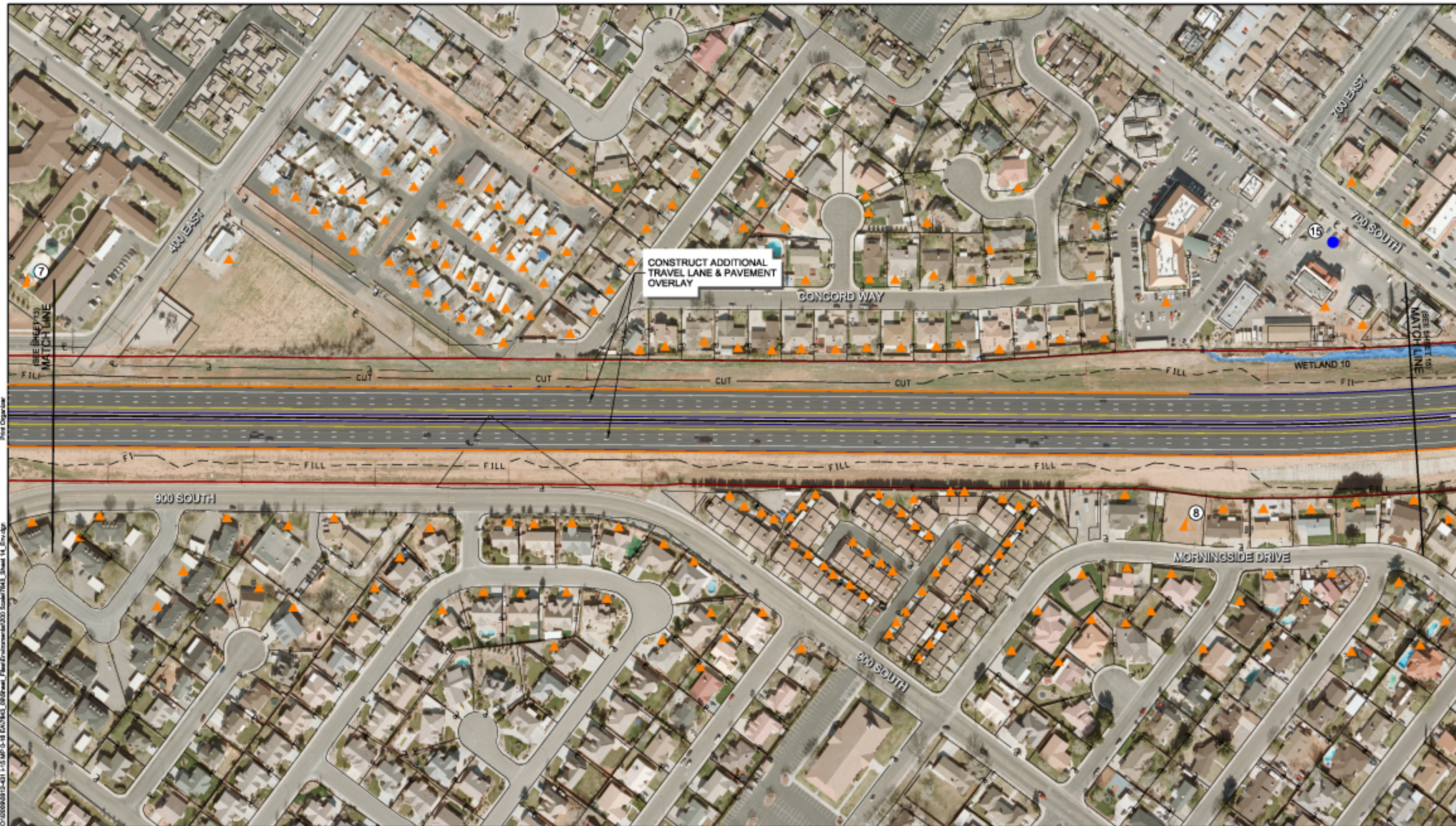
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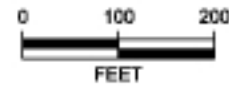


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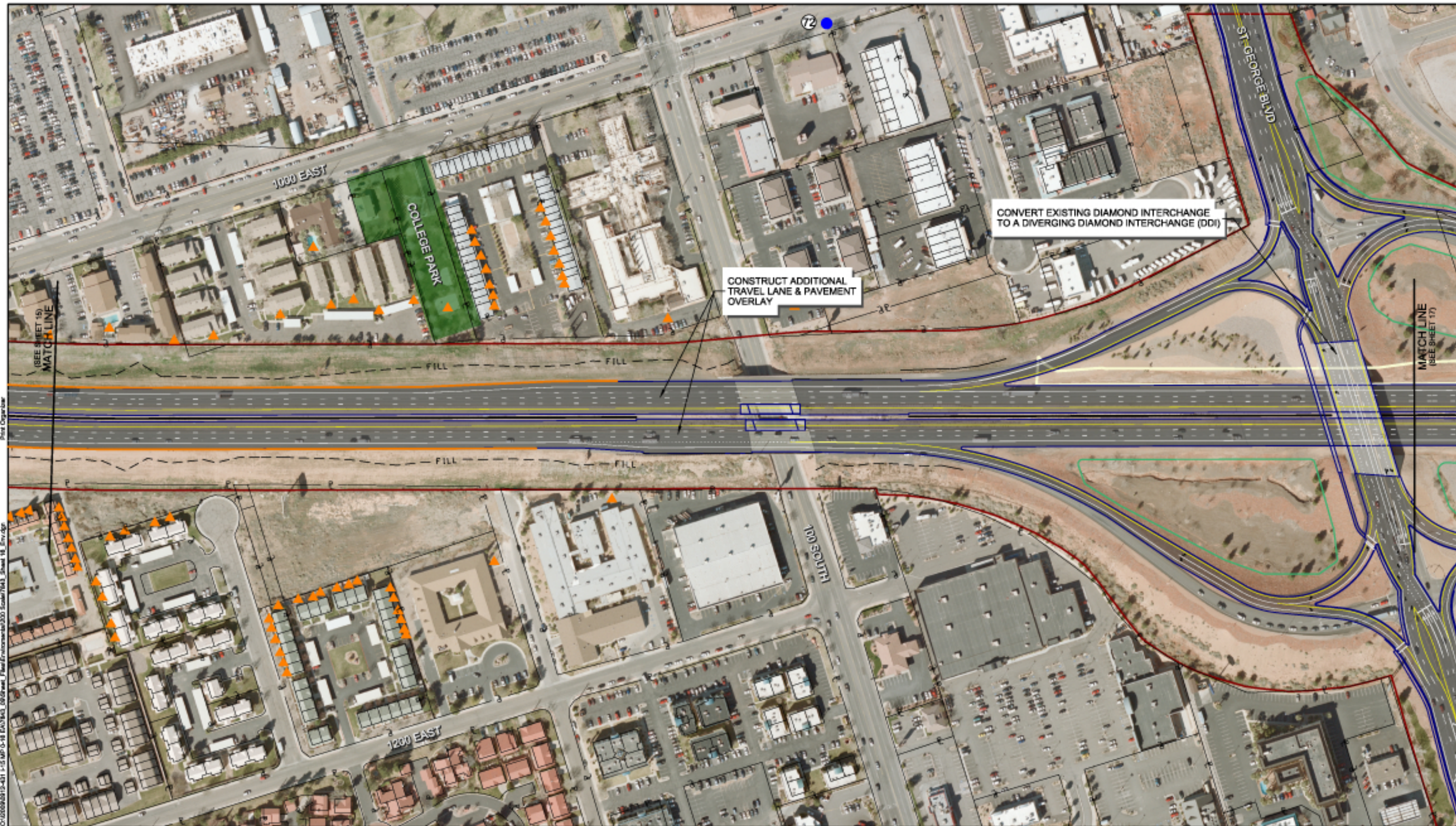
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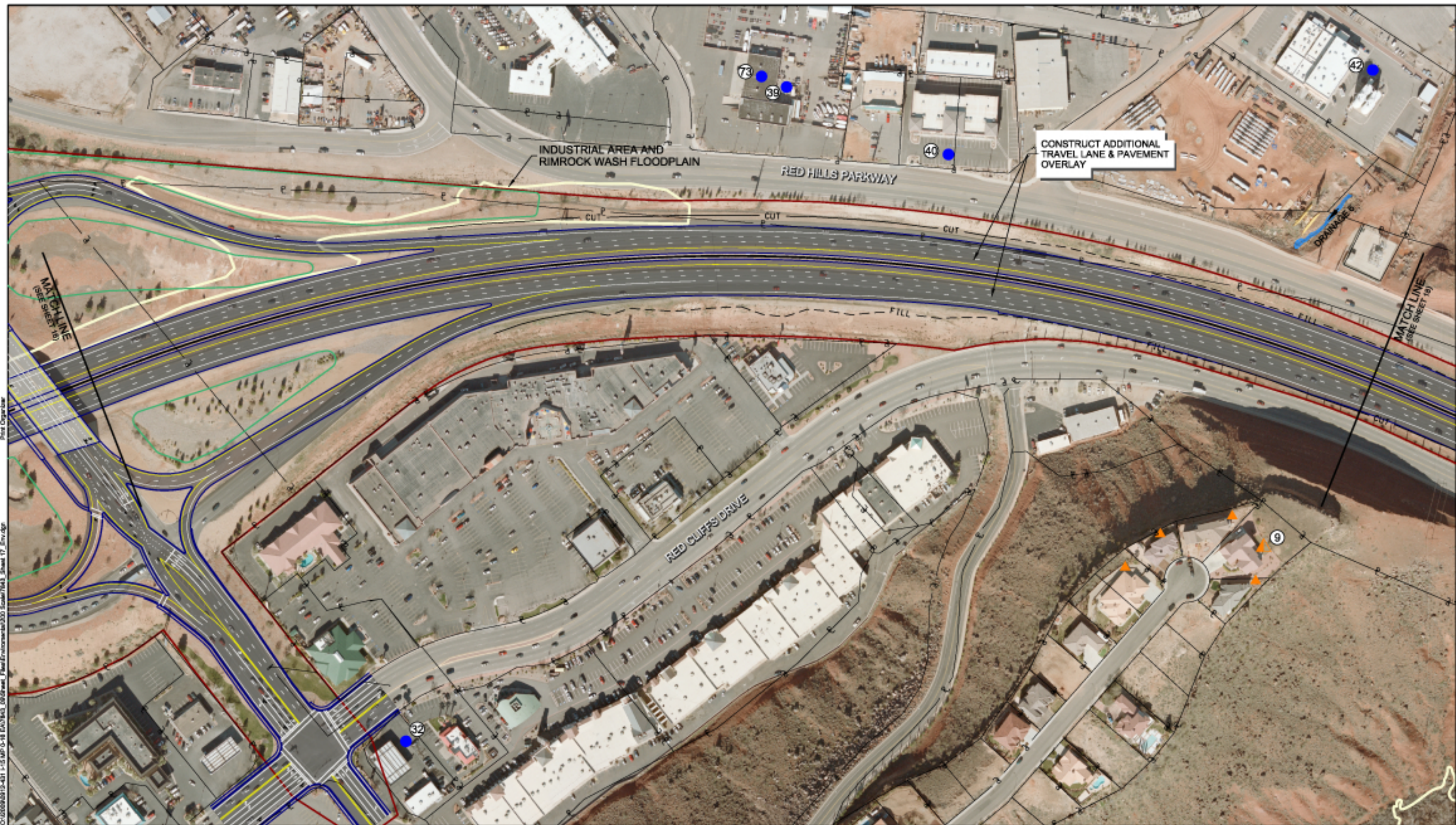
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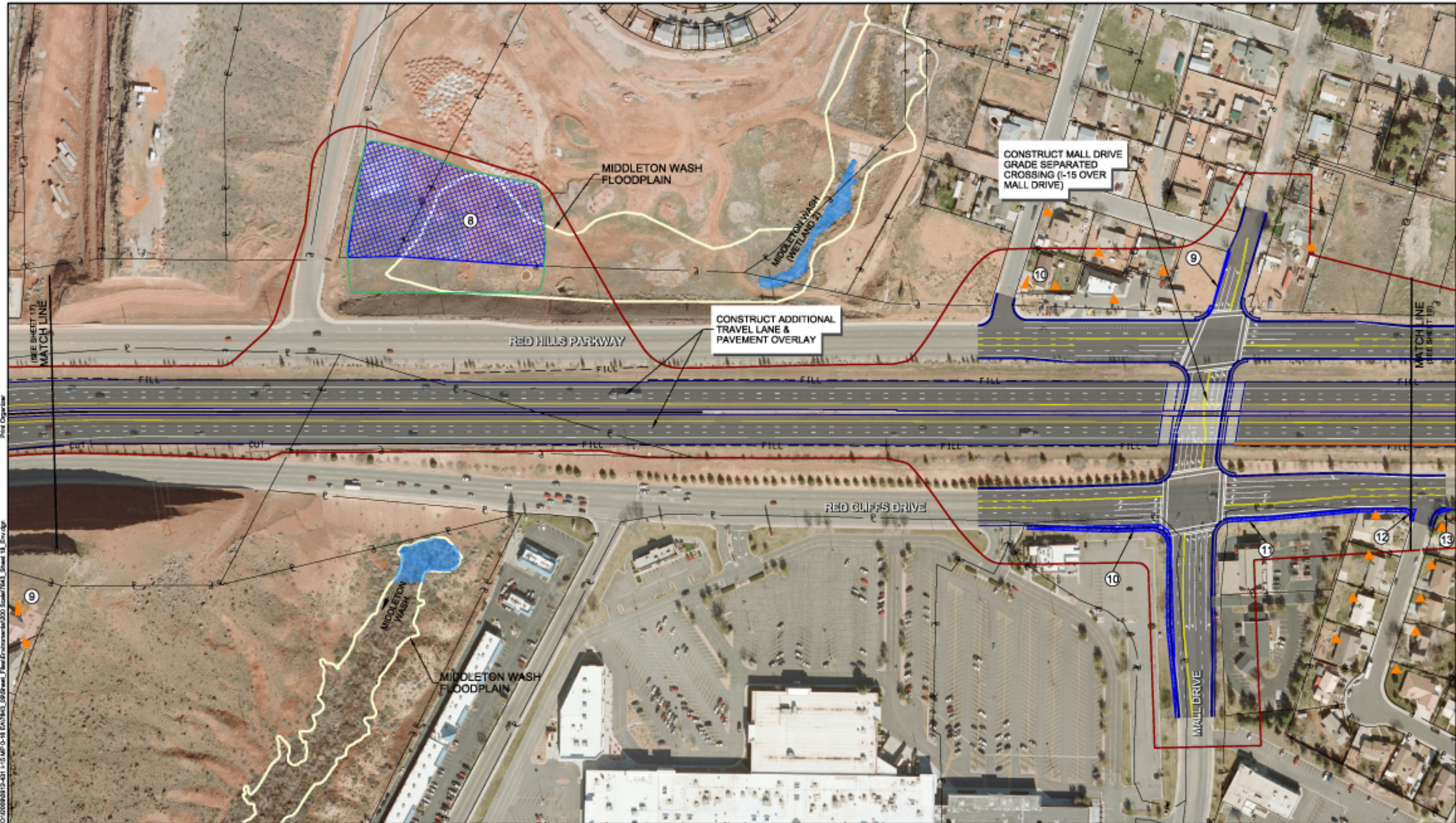
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LEGEND STUDY AREA WETLANDS/WATERS OF THE U.S. HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT		RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT) CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER PUBLIC PARKS / GOLF COURSES (SECTION 4(f))		NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1) NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS POTENTIAL NOISE WALL		HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1) POSSIBLE DETENTION BASIN 100 YEAR FLOODPLAIN		RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1) TRAIL (SECTION 4(f))			I-15 MP 0-16 SHEET 16
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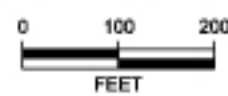
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<p>LEGEND</p> <ul style="list-style-type: none"> — STUDY AREA — WETLANDS/WATERS OF THE U.S. — HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT 	<ul style="list-style-type: none"> — RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT) — CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER — PUBLIC PARKS / GOLF COURSES (SECTION 4(f)) 	<ul style="list-style-type: none"> ▲ NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1) ▲ NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS — POTENTIAL NOISE WALL 	<ul style="list-style-type: none"> ● HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1) □ POSSIBLE DETENTION BASIN □ 100 YEAR FLOODPLAIN 	<ul style="list-style-type: none"> ▭ RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1) — TRAIL (SECTION 4(f)) 	<div style="text-align: center;">   </div>	<p>I-15 MP 0-16</p> <p>SHEET 17</p>
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LEGEND

STUDY AREA	RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT)	NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1)	HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1)
WETLANDS/WATERS OF THE U.S.	CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER	NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS	RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1)
HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT	PUBLIC PARKS / GOLF COURSES (SECTION 4(f))	POTENTIAL NOISE WALL	TRAIL (SECTION 4(f))
	MIDDLETON WASH FLOODPLAIN	POSSIBLE DETENTION BASIN	100 YEAR FLOODPLAIN



I-15 MP 0-16
SHEET 18

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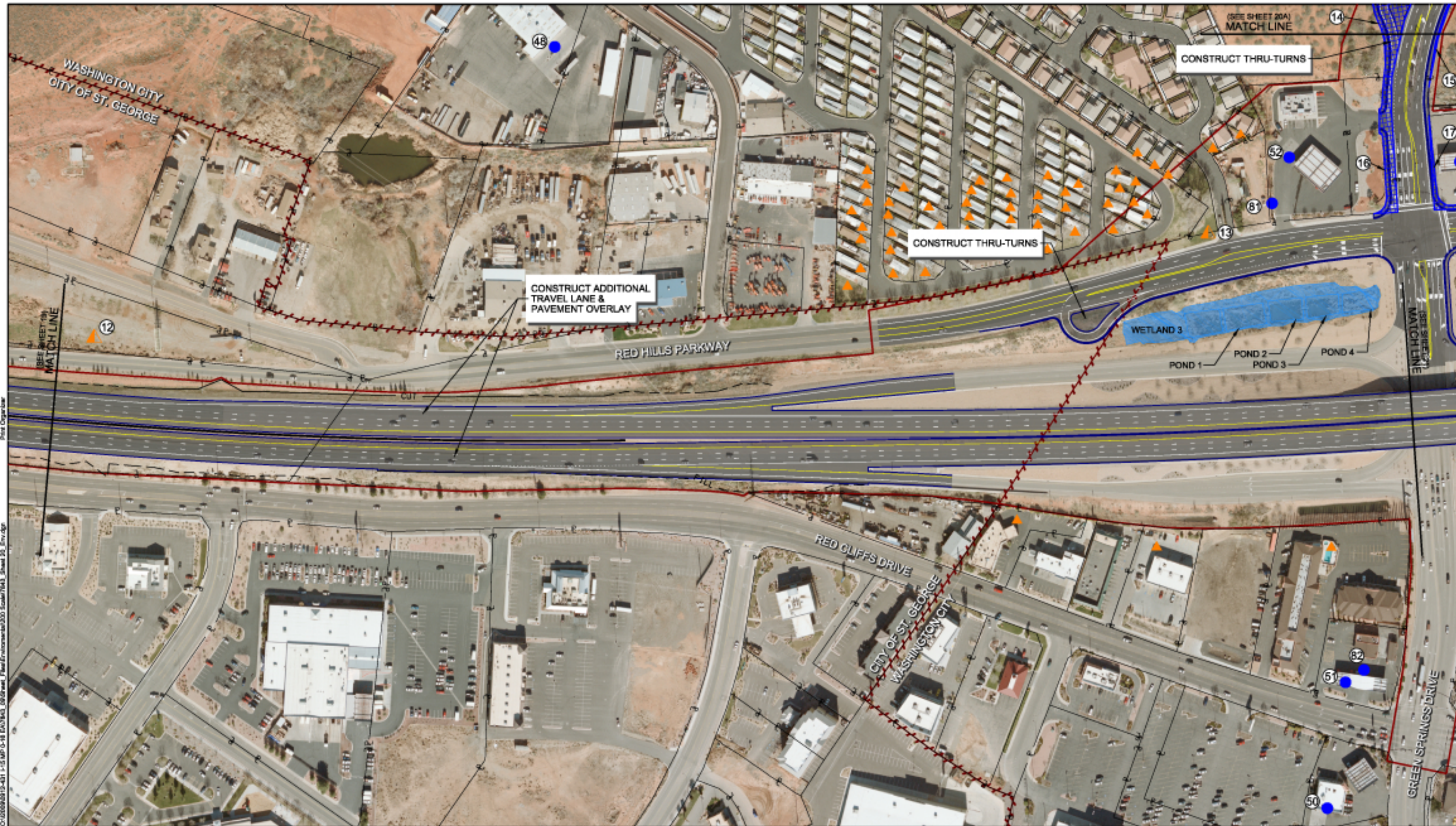


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LEGEND STUDY AREA WETLANDS/WATERS OF THE U.S. HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT	RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT) CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER PUBLIC PARKS / GOLF COURSES (SECTION 4(f))	NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1) NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS POTENTIAL NOISE WALL	HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1) POSSIBLE DETENTION BASIN 100 YEAR FLOODPLAIN	RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1) TRAIL (SECTION 4(f))	 0 100 200 FEET	<p align="center">I-15 MP 0-16 SHEET 19</p>



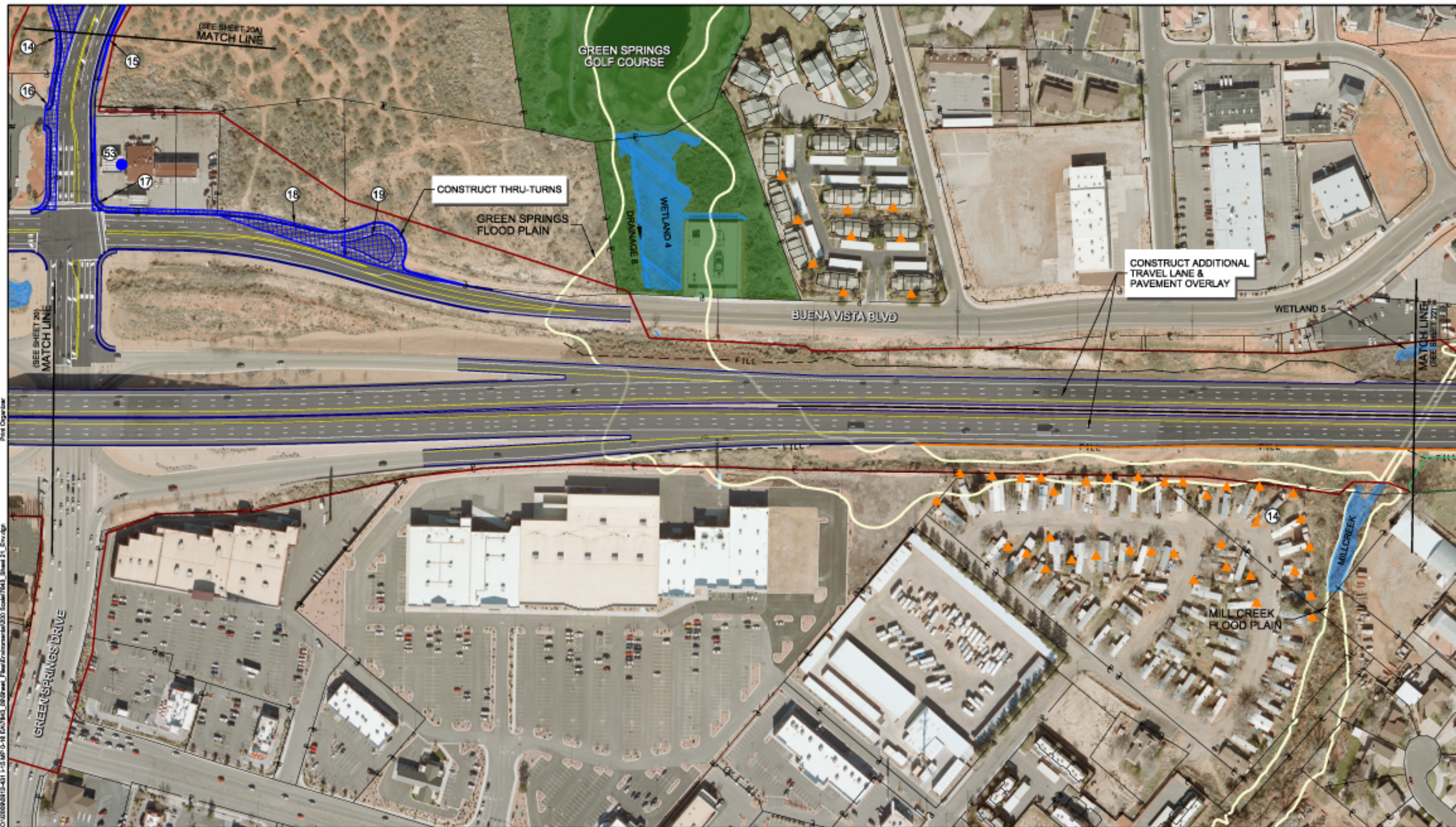
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LEGEND STUDY AREA WETLANDS/WATERS OF THE U.S. HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT	RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT) CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER PUBLIC PARKS / GOLF COURSES (SECTION 4(f))	NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1) NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS POTENTIAL NOISE WALL	HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1) POSSIBLE DETENTION BASIN 100 YEAR FLOODPLAIN	RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1) TRAIL (SECTION 4(f))		I-15 MP 0-16 SHEET 20



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LEGEND STUDY AREA WETLANDS/WATERS OF THE U.S. HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT		RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT) CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER PUBLIC PARKS / GOLF COURSES (SECTION 4(f))		NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1) NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS POTENTIAL NOISE WALL		HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1) POSSIBLE DETENTION BASIN 100 YEAR FLOODPLAIN		RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1) TRAIL (SECTION 4(f))			I-15 MP 0-16 SHEET 20A
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LEGEND — STUDY AREA WETLANDS/WATERS OF THE U.S. HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT		RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT) CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER PUBLIC PARKS / GOLF COURSES (SECTION 4(f))		▲ NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1) ▲ NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS — POTENTIAL NOISE WALL		● HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1) □ POSSIBLE DETENTION BASIN 100 YEAR FLOODPLAIN		■ RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1) — TRAIL (SECTION 4(f))			I-15 MP 0-16 SHEET 21
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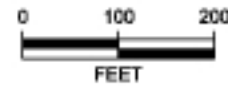
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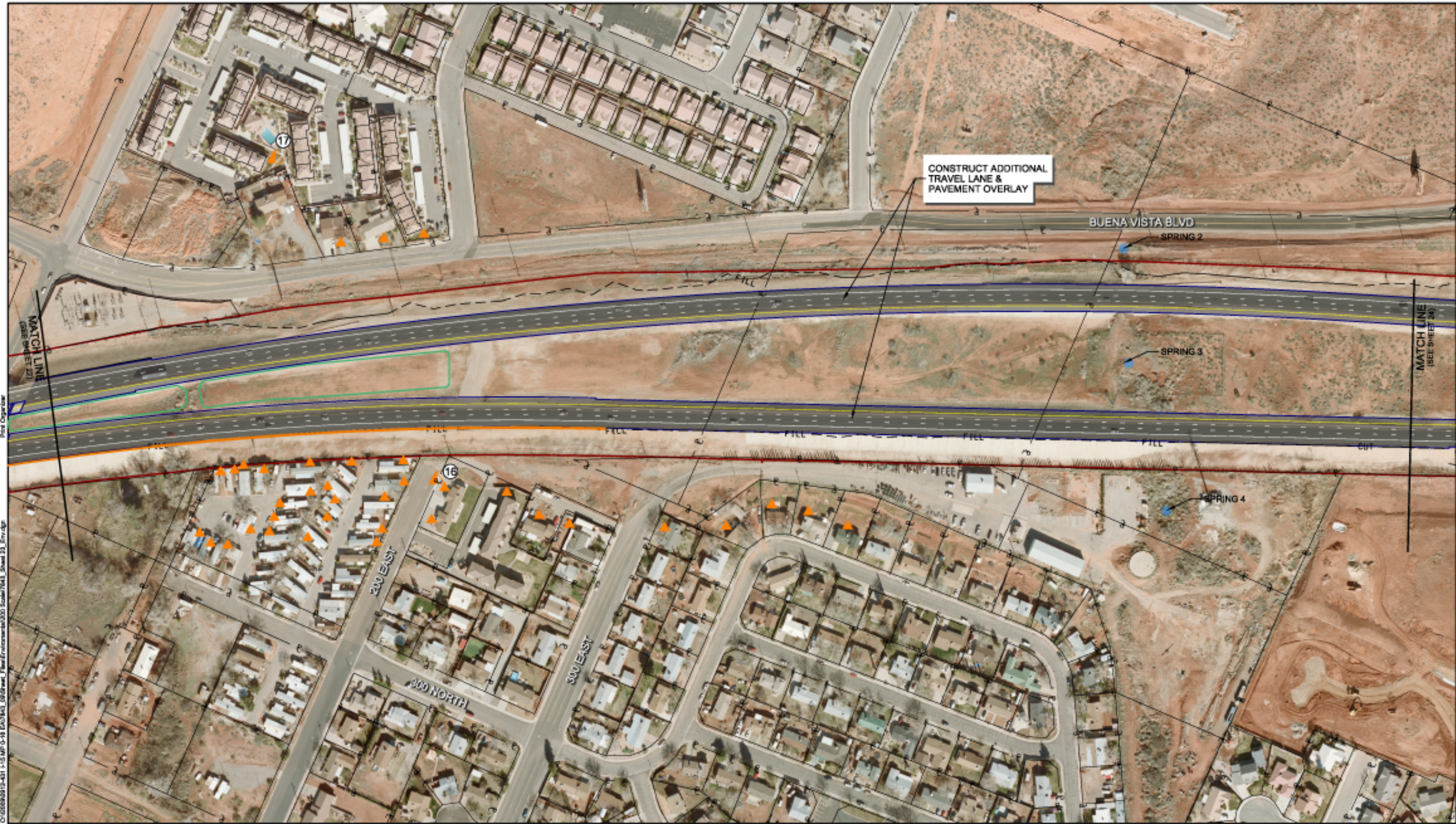
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LEGEND

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| STUDY AREA | RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT) | NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1) | HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1) | RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1) |
| WETLANDS/WATERS OF THE U.S. | CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER | NOISE IMPACTS
≥ 66 dBA RESIDENCE
≥ 71 dBA BUSINESS | POSSIBLE DETENTION BASIN | TRAIL (SECTION 4(f)) |
| HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT | PUBLIC PARKS / GOLF COURSES (SECTION 4(f)) | POTENTIAL NOISE WALL | 100 YEAR FLOODPLAIN | |



I-15 MP 0-16
SHEET 22



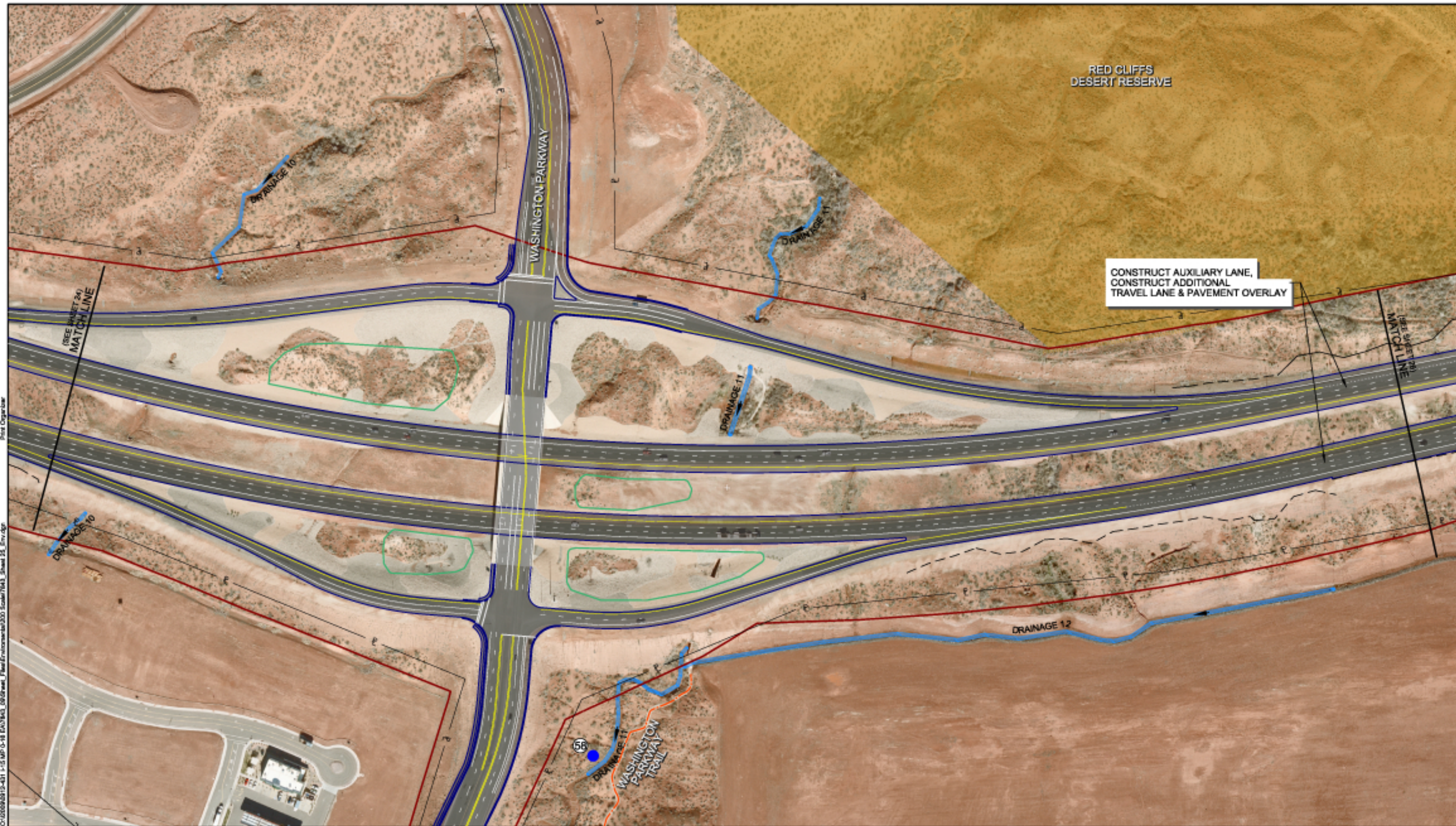
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LEGEND STUDY AREA WETLANDS/WATERS OF THE U.S. HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT	RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT) CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER PUBLIC PARKS / GOLF COURSES (SECTION 4(f))	NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1) NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS POTENTIAL NOISE WALL	HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1) POSSIBLE DETENTION BASIN 100 YEAR FLOODPLAIN	RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1) TRAIL (SECTION 4(f))		I-15 MP 0-16 SHEET 23
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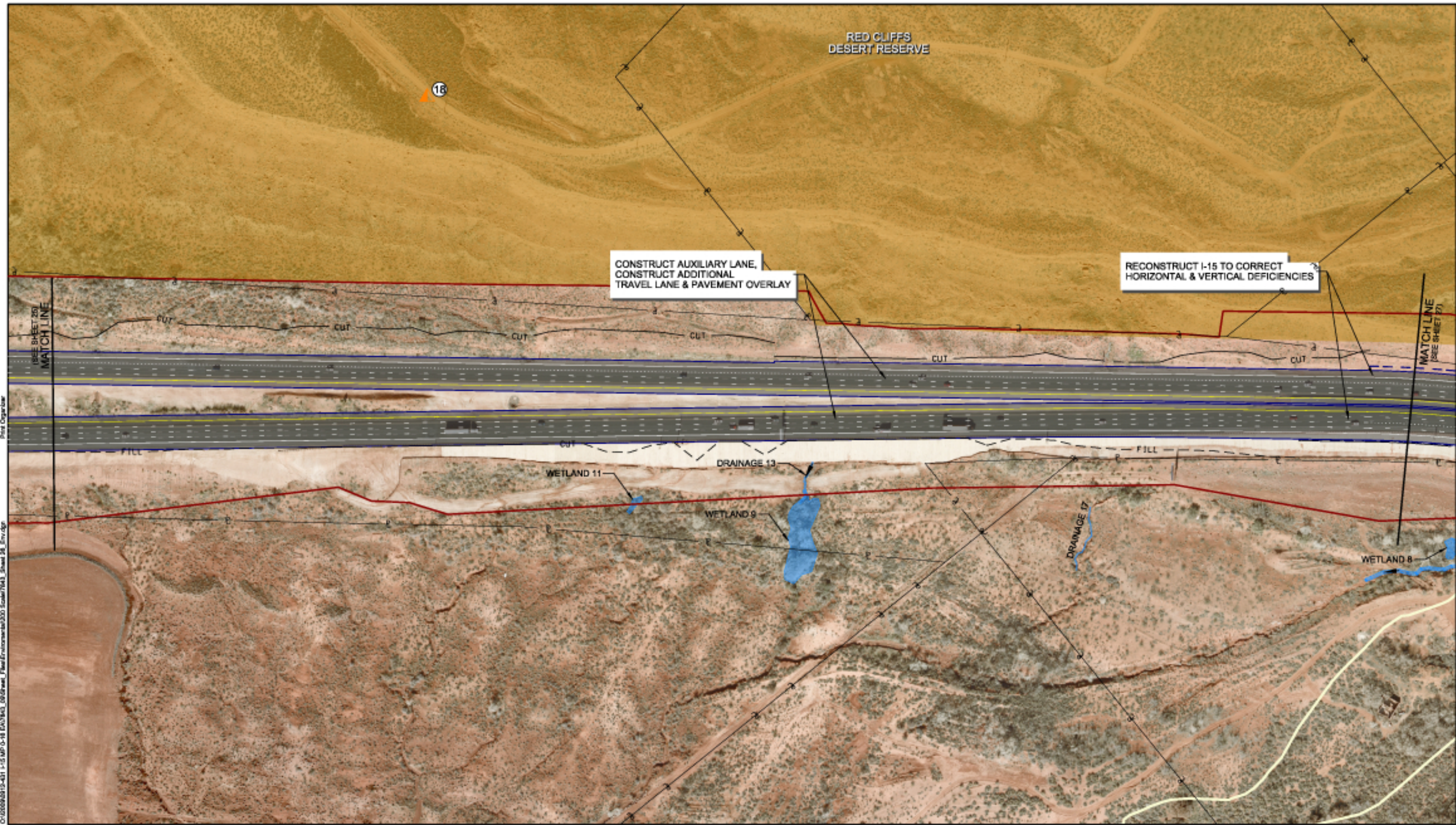
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LEGEND — STUDY AREA WETLANDS/WATERS OF THE U.S. HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT		RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT) CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER PUBLIC PARKS / GOLF COURSES (SECTION 4(f))		NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1) NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS POTENTIAL NOISE WALL		HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1) POSSIBLE DETENTION BASIN 100 YEAR FLOODPLAIN		RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1) TRAIL (SECTION 4(f))			I-15 MP 0-16 SHEET 25
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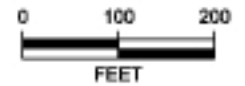


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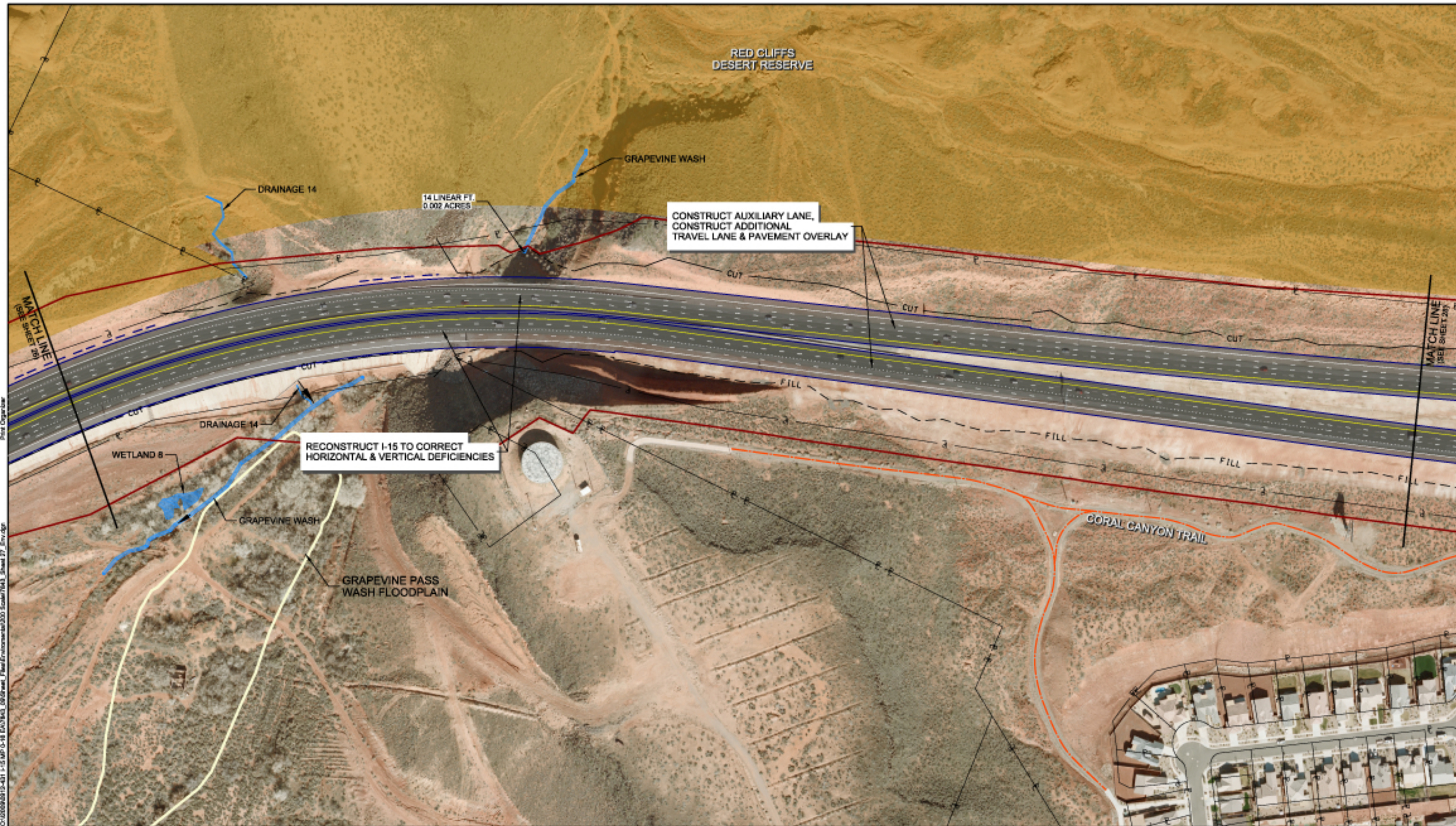
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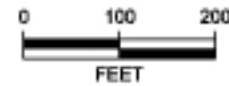
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STUDY AREA	RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT)	NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1)	HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1)
WETLANDS/WATERS OF THE U.S.	CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER	NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS	POSSIBLE DETENTION BASIN
HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT	PUBLIC PARKS / GOLF COURSES (SECTION 4(f))	POTENTIAL NOISE WALL	100 YEAR FLOODPLAIN
			RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1)
			TRAIL (SECTION 4(f))

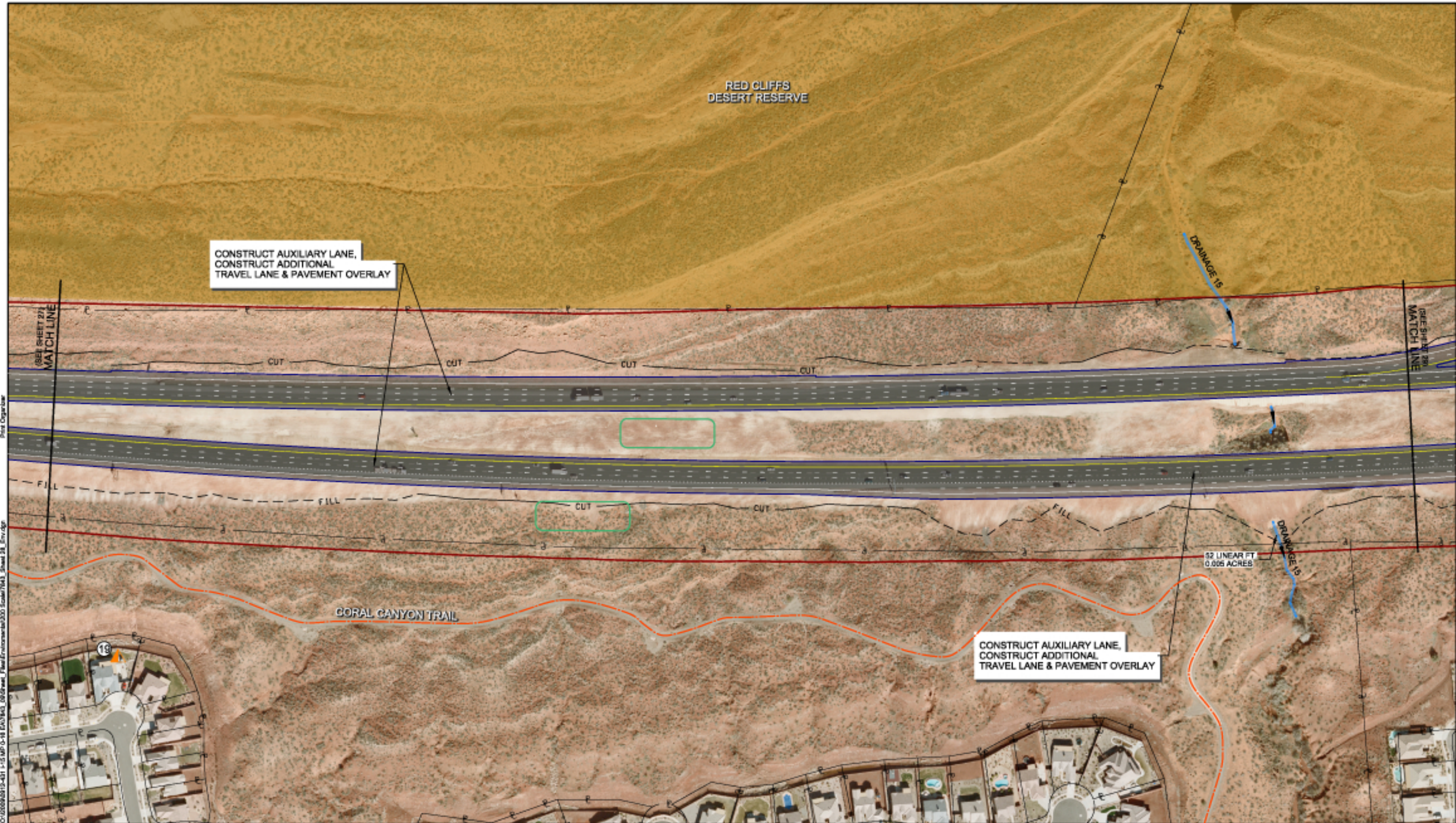


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SHEET 26



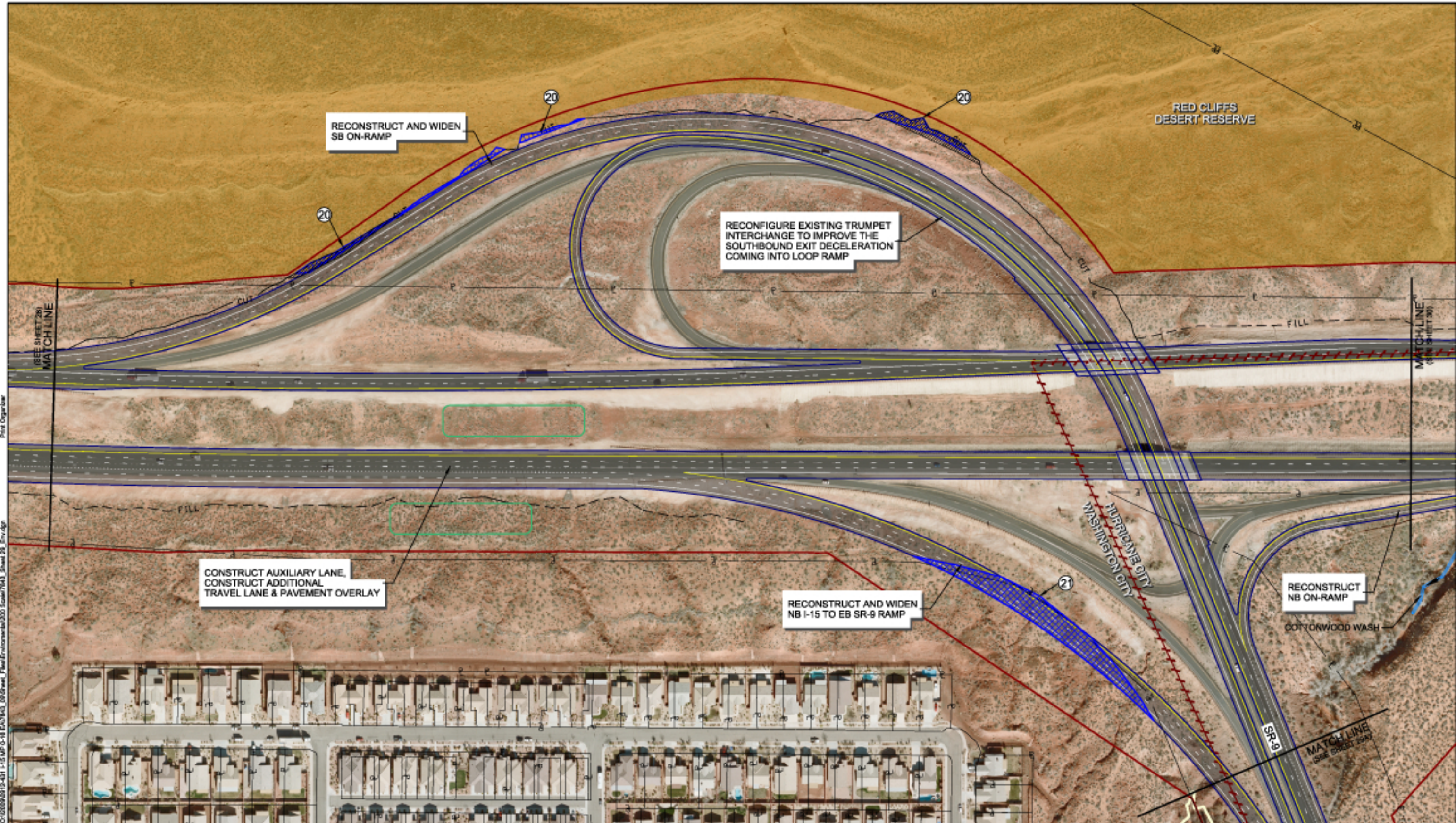
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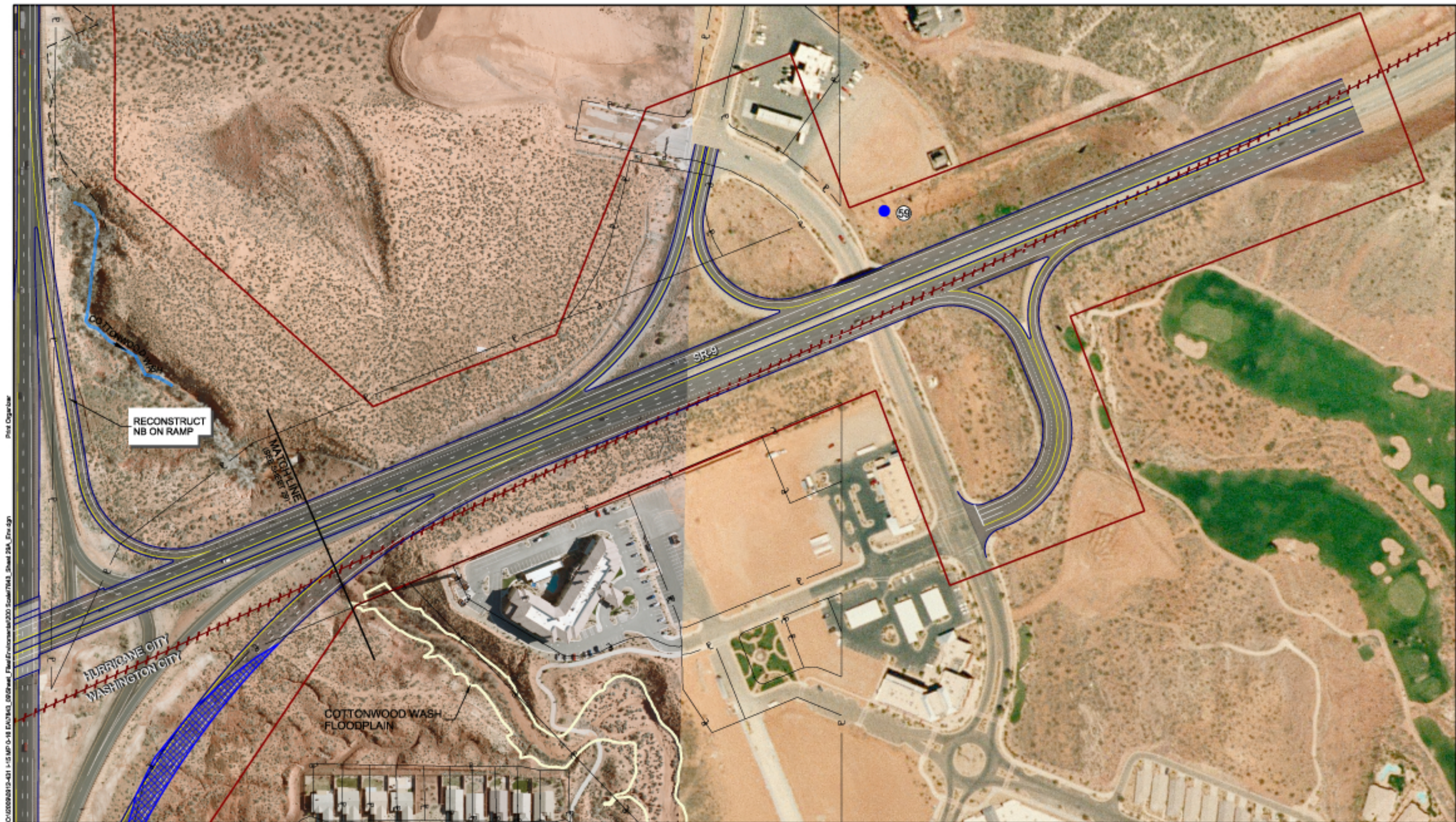
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LEGEND STUDY AREA WETLANDS/WATERS OF THE U.S. HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT		RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT) CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER PUBLIC PARKS / GOLF COURSES (SECTION 4(f))		NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1) NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS POTENTIAL NOISE WALL		HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1) POSSIBLE DETENTION BASIN 100 YEAR FLOODPLAIN		RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1) TRAIL (SECTION 4(f))				I-15 MP 0-16 SHEET 28	
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LEGEND STUDY AREA WETLANDS/WATERS OF THE U.S. HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT		RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT) CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER PUBLIC PARKS / GOLF COURSES (SECTION 4(f))		NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1) NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS POTENTIAL NOISE WALL		HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1) POSSIBLE DETENTION BASIN 100 YEAR FLOODPLAIN		RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1) TRAIL (SECTION 4(f))			I-15 MP 0-16 SHEET 29
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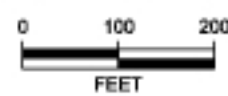
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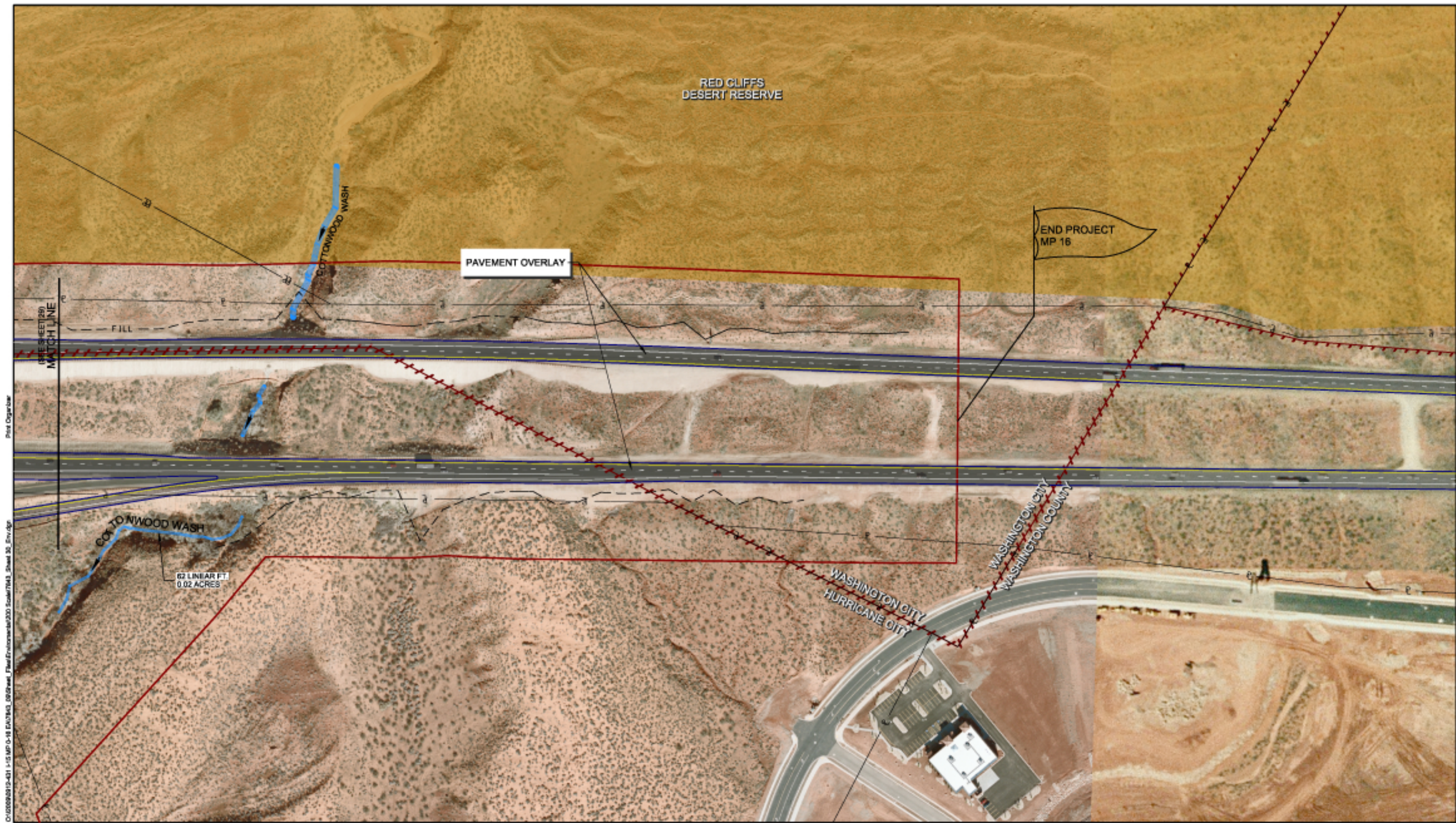
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LEGEND

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| STUDY AREA | RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT) | NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1) | HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1) | RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1) |
| WETLANDS/WATERS OF THE U.S. | CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER | NOISE IMPACTS
≥ 66 dBA RESIDENCE
≥ 71 dBA BUSINESS | POSSIBLE DETENTION BASIN | TRAIL (SECTION 4(f)) |
| HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT | PUBLIC PARKS / GOLF COURSES (SECTION 4(f)) | POTENTIAL NOISE WALL | 100 YEAR FLOODPLAIN | |



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SHEET 29A



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LEGEND — STUDY AREA ■ WETLANDS/WATERS OF THE U.S. ■ HOLMGREN MILK-VETCH DESIGNATED CRITICAL HABITAT		■ RED CLIFFS DESERT RESERVE (DESERT TORTOISE DESIGNATED CRITICAL HABITAT) ■ CRITICAL HABITAT ASSOCIATED WITH THE VIRGIN RIVER ■ PUBLIC PARKS / GOLF COURSES (SECTION 4(f))		▲ NOISE MEASUREMENT SITES (See Table 3-10 in Vol. 1) ▲ NOISE IMPACTS ≥ 66 dBA RESIDENCE ≥ 71 dBA BUSINESS — POTENTIAL NOISE WALL		● HAZARDOUS WASTE SITES (See Table 3-37 in Vol. 1) □ POSSIBLE DETENTION BASIN ■ 100 YEAR FLOODPLAIN		■ RIGHT-OF-WAY ACQUISITION (See Table 3-7 in Vol. 1) — TRAIL (SECTION 4(f))				I-15 MP 0-16 SHEET 30
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