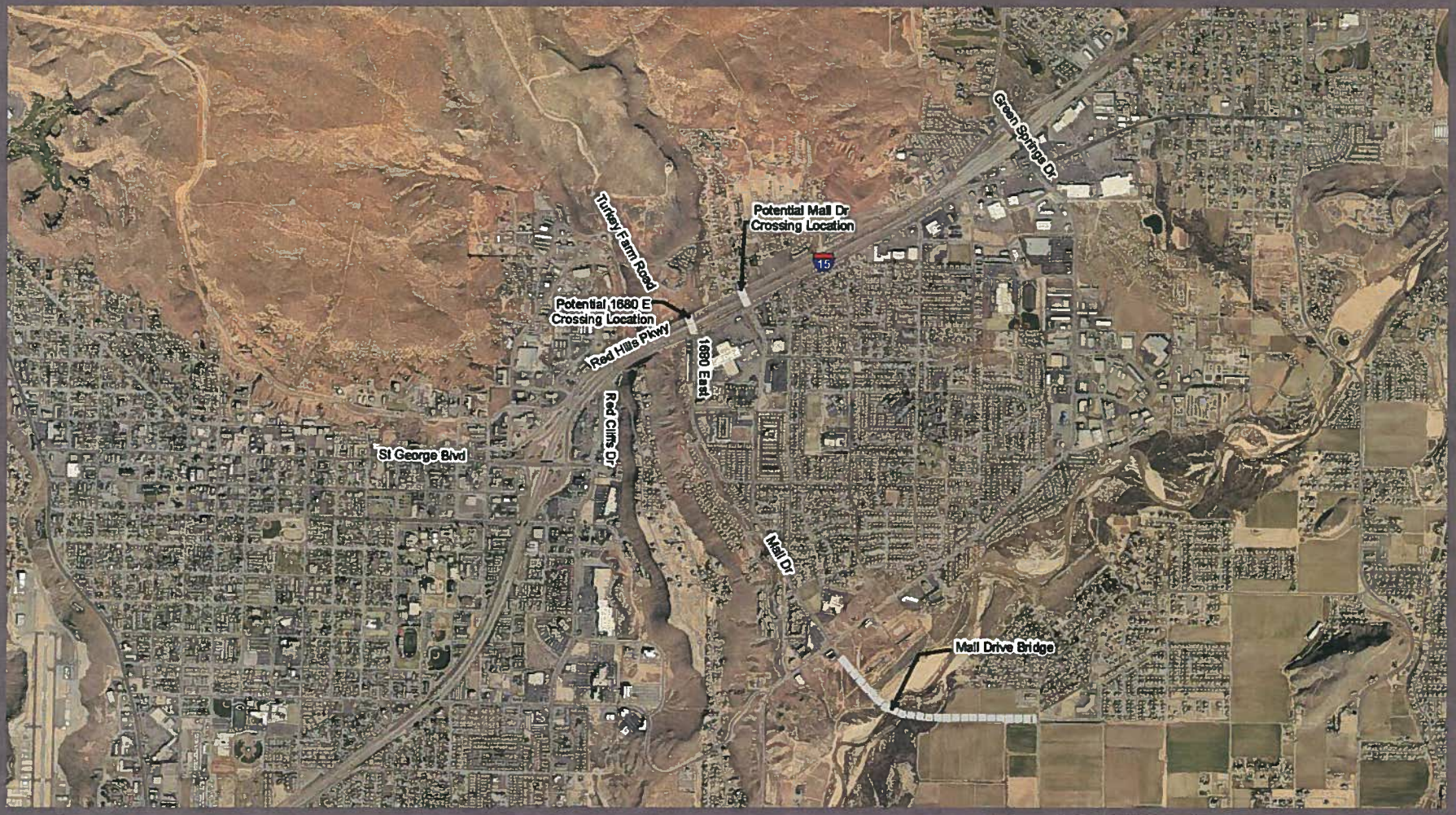
I-15 UNDERPASS

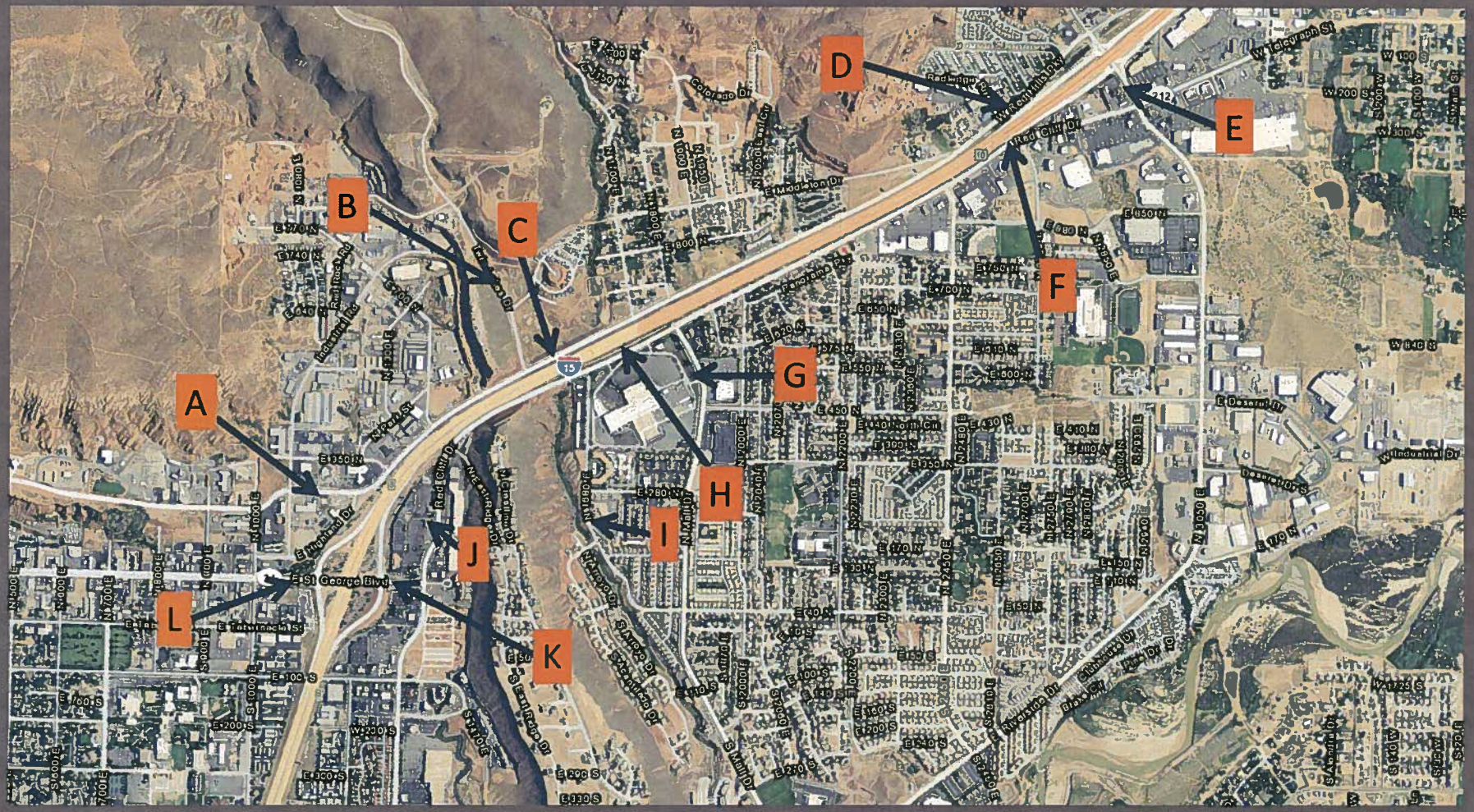
- I-15 Milepost 8 Study (2009)
- I-15 Environmental Assessment (2012)
- I-15 Crossing at Mall Drive/1680 East Study (2013)
- I-15 Corridor, MP8 to MP10 Auxiliary Lanes Project
  - Design Innovation Workshop - Allow For Underpass (2014)

- QRS II Traffic Model (→ 2010)
- Statewide CUBE Traffic Model (2013 →)



I-15 UNDERPASS

STUDY LOCATION



I-15 CROSSING AT MALL DR/1680 E STUDY

DATA COLLECTION SITES

Table 1: Shift In Traffic

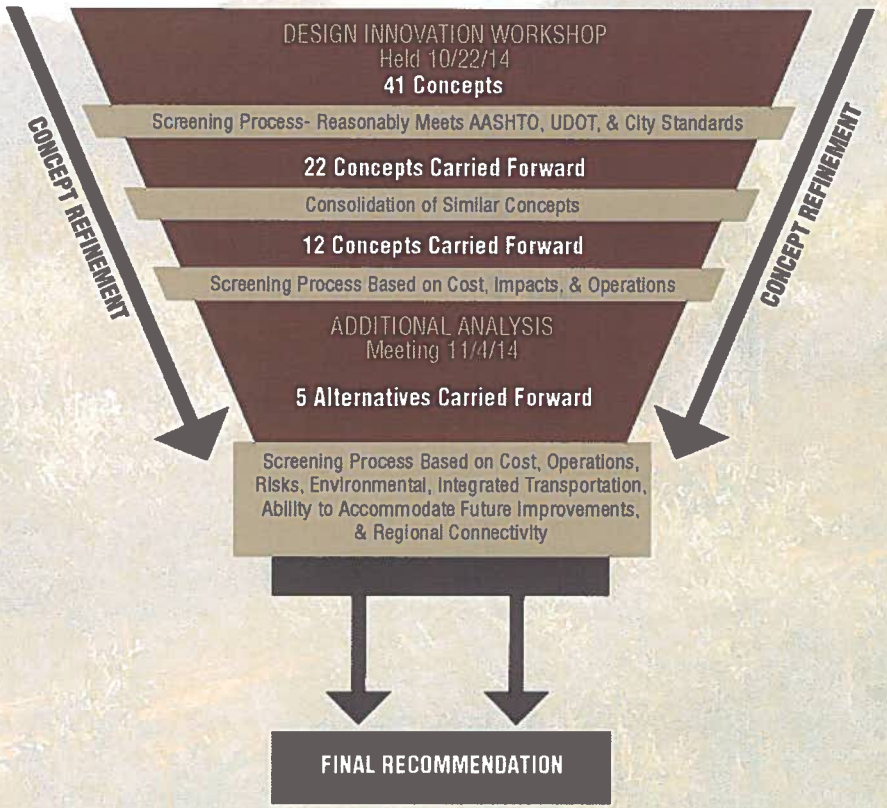
Figure ID	Description	2040 Traffic Shift Without Wash. Pkwy Extension & Turkey Farm Rd				2040 Traffic Shift With Wash. Pkwy Extension Only				2040 Traffic Shift With Wash. Pkwy Extension & Turkey Farm Rd			
		No Crossing (base)	Mall Dr Crossing	1680 E Crossing w/ friction	1680 E Crossing	No Crossing	Mall Dr Crossing	1680 E Crossing w/ friction	1680 E Crossing	No Crossing	Mall Dr Crossing	1680 E Crossing w/ friction	1680 E Crossing
A	Red Hills Pkwy: East of 1000 E	0%	18%	20%	21%	-11%	1%	4%	5%	-16%	-97%	-33%	-33%
B	Turkey Farm Road	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
C	Red Hills Pkwy: East of Turkey Farm Rd	0%	73%	85%	88%	-22%	40%	55%	57%	-4%	69%	108%	117%
D	Red Hills Pkwy: West of Green Springs Dr	0%	-43%	-41%	-44%	-21%	-60%	-56%	-57%	-6%	-59%	-55%	-57%
E	Green Springs Dr: Between Interchange & Red Cliffs Dr	0%	-15%	-10%	-11%	-10%	-20%	-16%	-16%	-4%	-20%	-18%	-18%
F	Red Cliffs Dr: South of Green Springs	0%	6%	7%	6%	-7%	-1%	-1%	-1%	-9%	1%	0%	0%
G	Mall Dr	0%	30%	7%	-11%	2%	29%	4%	-15%	4%	41%	10%	-11%
H	Red Cliffs Dr: Between Mall Dr and 1680 E	0%	-3%	10%	7%	-5%	-7%	4%	0%	-7%	-13%	7%	3%
I	1680 E	0%	-42%	147%	406%	-9%	-52%	150%	417%	-16%	-54%	212%	637%
J	Red Cliffs Dr: North of Blvd	0%	-8%	-11%	-10%	-5%	-11%	-15%	-14%	-7%	-16%	-17%	-17%
K	St George Blvd: East of Interchange	0%	-9%	-12%	-11%	0%	-7%	-9%	-8%	1%	-11%	-12%	-12%
L	St George Blvd:West of Interchange	0%	-10%	-12%	-11%	-10%	-18%	-20%	-20%	-9%	-21%	-22%	-23%

Table 2: St George Blvd 2040 PM Peak Traffic Analysis Summary

Intersection	Movement	No I-15 Crossing		No I-15 Crossing w/ Side Street Improvements		I-15 Crossing w/ Side Street Improvements	
		Delay (sec/veh)	Level of Service	Delay (sec/veh)	Level of Service	Delay (sec/veh)	Level of Service
St George Blvd/1000 E	EBL	98.3	F	78.8	E	67.9	E
	EBR	106.6	F	61.3	E	40	D
	EBT	103.3	F	87.3	F	47.1	D
	SBR	10.6	B	53.5	D	10.8	B
	SBT	51.1	D	102.5	F	43.6	D
	SBL	61	E	160.2	F	57.2	E
	NBT	67.3	E	66.8	E	64.2	E
	NBL	61.1	E	60.4	E	63.8	E
	NBR	12.3	B	34	C	18.4	B
	WBR	14.8	B	15.6	B	14.3	B
	WBT	33.6	C	33.6	C	29.2	C
	WBL	57.9	E	63.7	E	64.2	E
	Avg Sum	**58.6**	E	**70.8**	E	**41.3**	D
St George Blvd/SB Ramps	SBR	41.4	D	36.6	D	31.8	C
	SBL	23.9	C	40	D	23.1	C
	EBR	2.3	A	3.2	A	3.2	A
	EBT	9.5	A	24.5	C	10.9	B
	WBL	21.6	C	26.3	C	4.5	A
	WBT	69.4	E	72.1	E	29.1	C
	Avg Sum	**31.7**	C	**37.5**	D	**18.9**	B
SG Blvd and NB Ramps	NBL	37.1	D	72.2	E	18	B
	NBR	37.7	D	85.7	F	32.2	C
	EBL	1.6	A	3.1	A	2.2	A
	EBT	33.4	C	57	E	26.2	C
	WBR	2.3	A	1.2	A	1.7	A
	WBT	42.2	D	50.9	D	24.6	C
	Avg Sum	**27**	C	**43.2**	D	**17.7**	B
SG Blvd and River Rd	WBR	53	D	53.3	D	29.7	C
	WBL	80.9	F	101.5	F	98.9	F
	WBT	66.5	E	64	E	60.4	E
	SBL	118.7	F	107.8	F	70.9	E
	SBT	129	F	133.2	F	13.7	B
	SBR	102.3	F	136.3	F	44.1	D
	NBT	29.8	C	51.7	D	30.3	C
	NBR	28.5	C	42.5	D	38.2	D
	NBL	78.8	E	146.2	F	56.7	E
	EBL	35.8	D	37.6	D	33.8	C
	EBT	40.2	D	37.8	D	39	D
	EBR	10.5	B	12.5	B	11.7	B
	Avg Sum	**60.9**	E	**74.7**	E	**33.6**	C

I-15 CORRIDOR
MILEPOST 8-10
AUXILIARY LANES

MALL DRIVE CROSSING CONCEPT ANALYSIS AND REFINEMENT



EA OPTION 1 – MALL DRIVE UNDERPASS

ESTIMATE $27.3M

OPTION 2 – MALL DRIVE TEE INTO RED HILLS PKWY

ESTIMATE $24.5M

OPTION 3 – 1680 EAST CROSSING

ESTIMATE $13M

OPTION 4 – MID BLOCK CROSSING

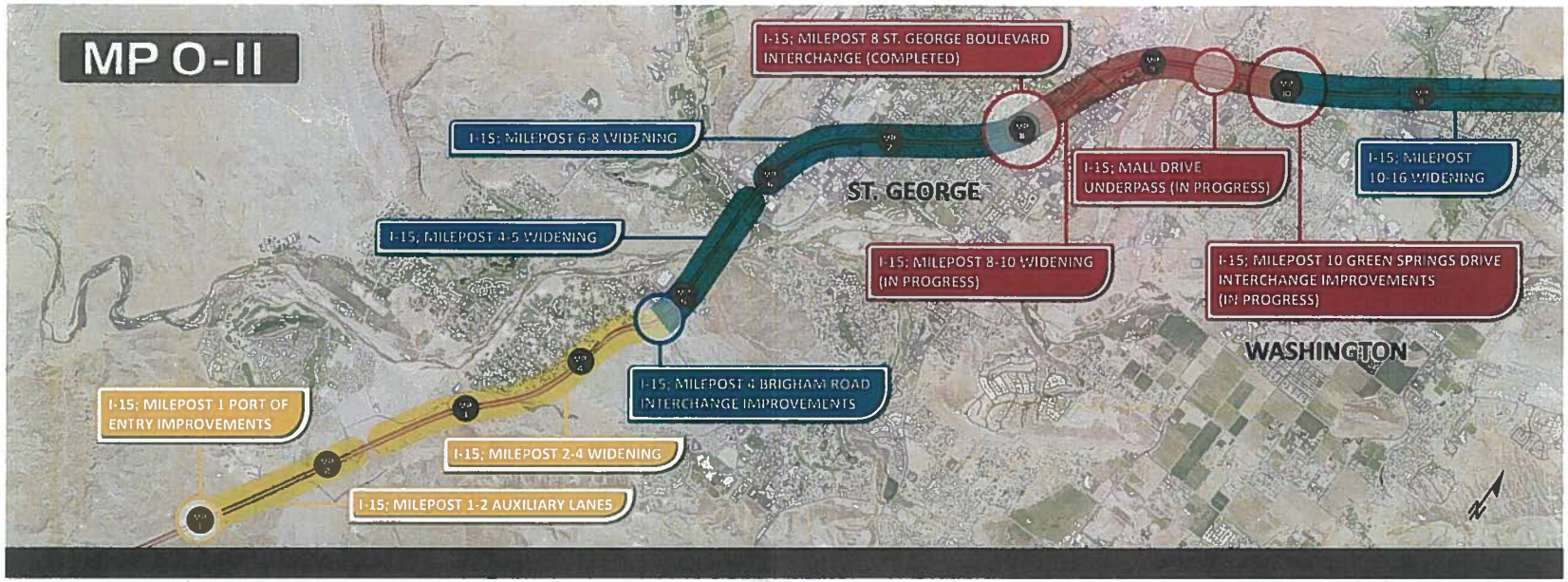
ESTIMATE $15M

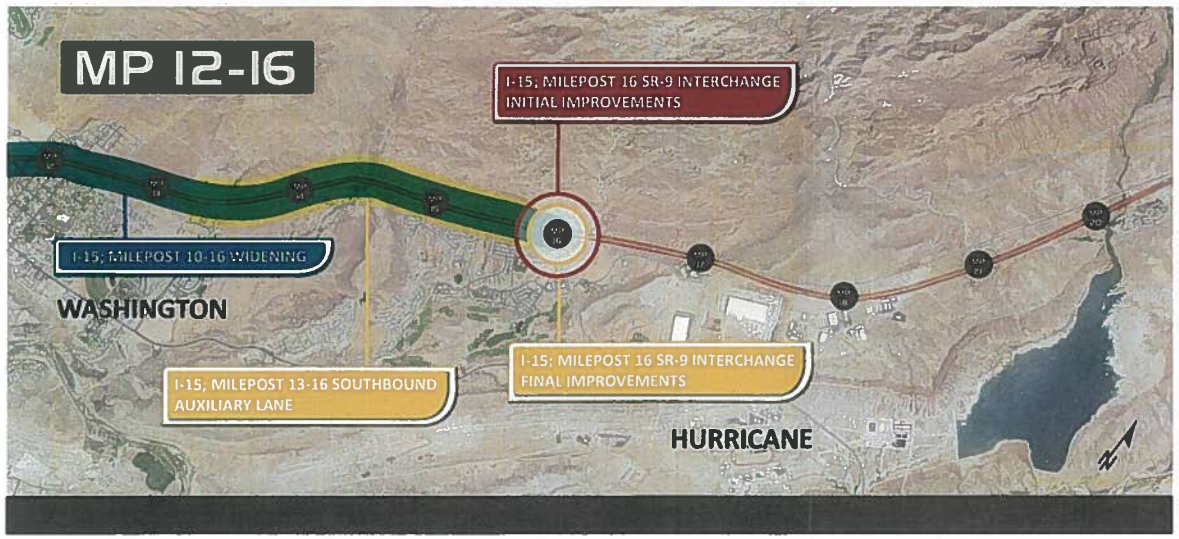
OPTION 5 - SPIDR

ESTIMATE $35M

I-15 WIDENING MILE POST 8 to 10 with UNDERPASS IMPROVEMENTS			
OPTION	OPTION UNDERPASS TOTAL	WORK WITHIN I-15 N/A LINE SUBTOTAL (APPROX)	WORK OUTSIDE I-15 N/A LINE SUBTOTAL (APPROX)
ENVIRONMENTAL ASSESSMENT	$ 27,300,000.00	$ 16,300,000.00	$ 11,000,000.00
MALL DRIVE TEE INTO RED HILLS PKWY	$ 24,500,000.00	$ 12,600,000.00	$ 11,900,000.00
1680 E TEE INTO REF HILLS PKWY	$ 13,000,000.00	$ 8,200,000.00	$ 4,800,000.00
MID BLOCK CROSSING NEAR MALL ACCESS TEE INTO RED HILLS PKWY	$ 15,000,000.00	$ 9,400,000.00	$ 5,600,000.00
SPIDR INTERSECTION	$ 35,000,000.00	$ 18,200,000.00	$ 16,800,000.00

I-15 CORRIDOR
MP 0-16





PHASE 1 PROJECTS (2012-2020)

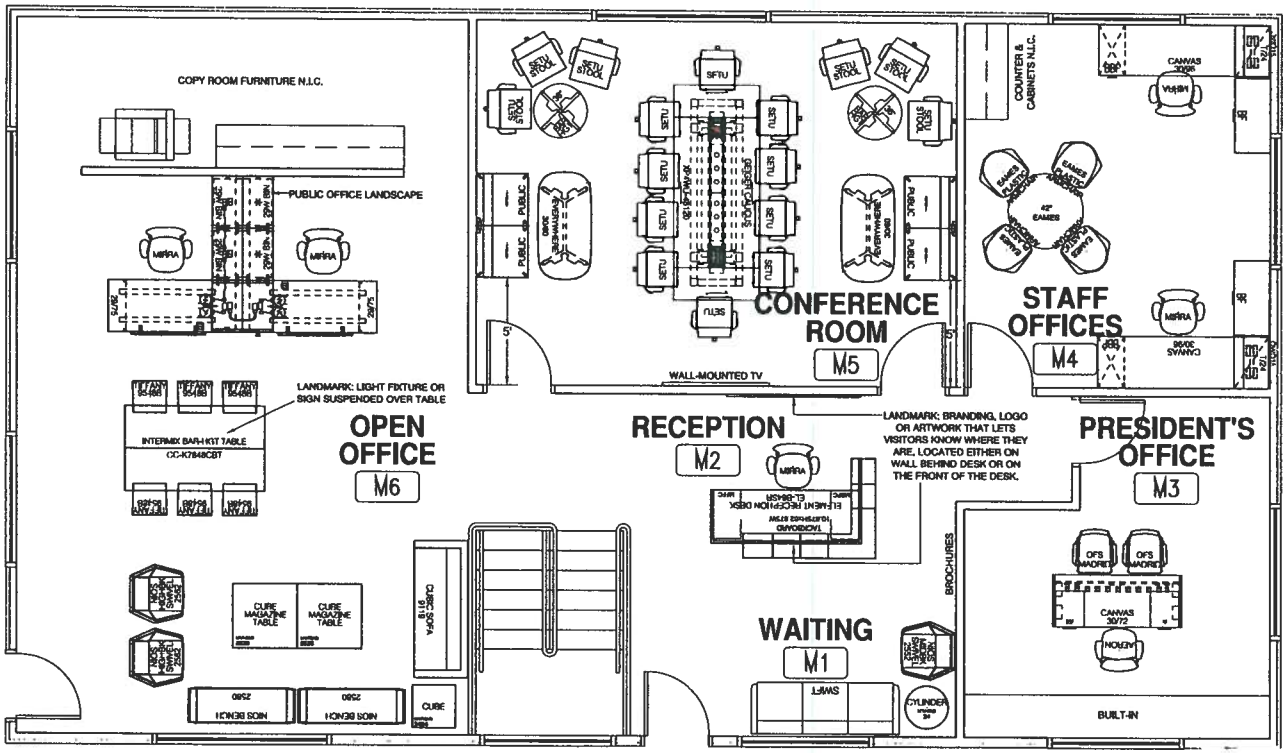
PHASE 2 PROJECTS (2020-2030)

PHASE 3 PROJECTS (2030-2040)

UDOT
Keeping Utah Moving

ST. GEORGE CHAMBER OF COMMERCE

ST. GEORGE, UTAH



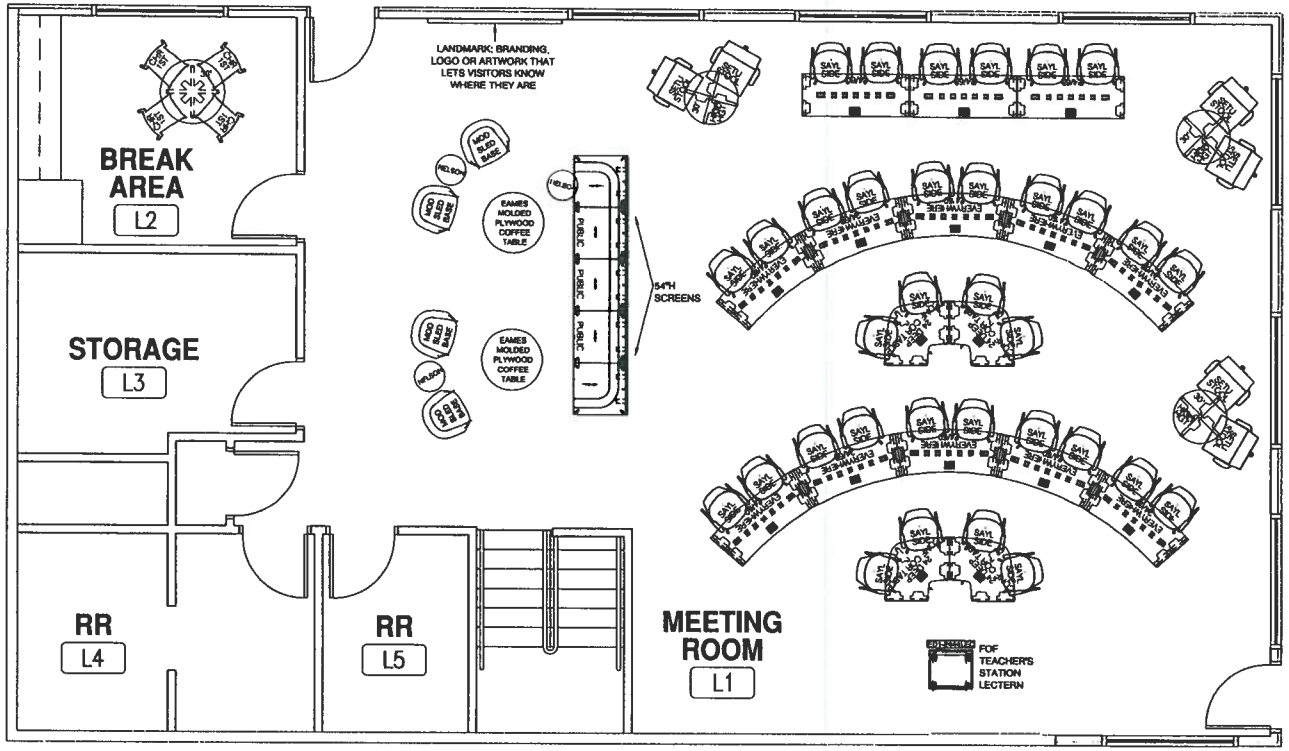
FURNITURE PLAN

MAIN LEVEL

HENRIKSEN BUTLER

ST. GEORGE CHAMBER OF COMMERCE

ST. GEORGE, UTAH

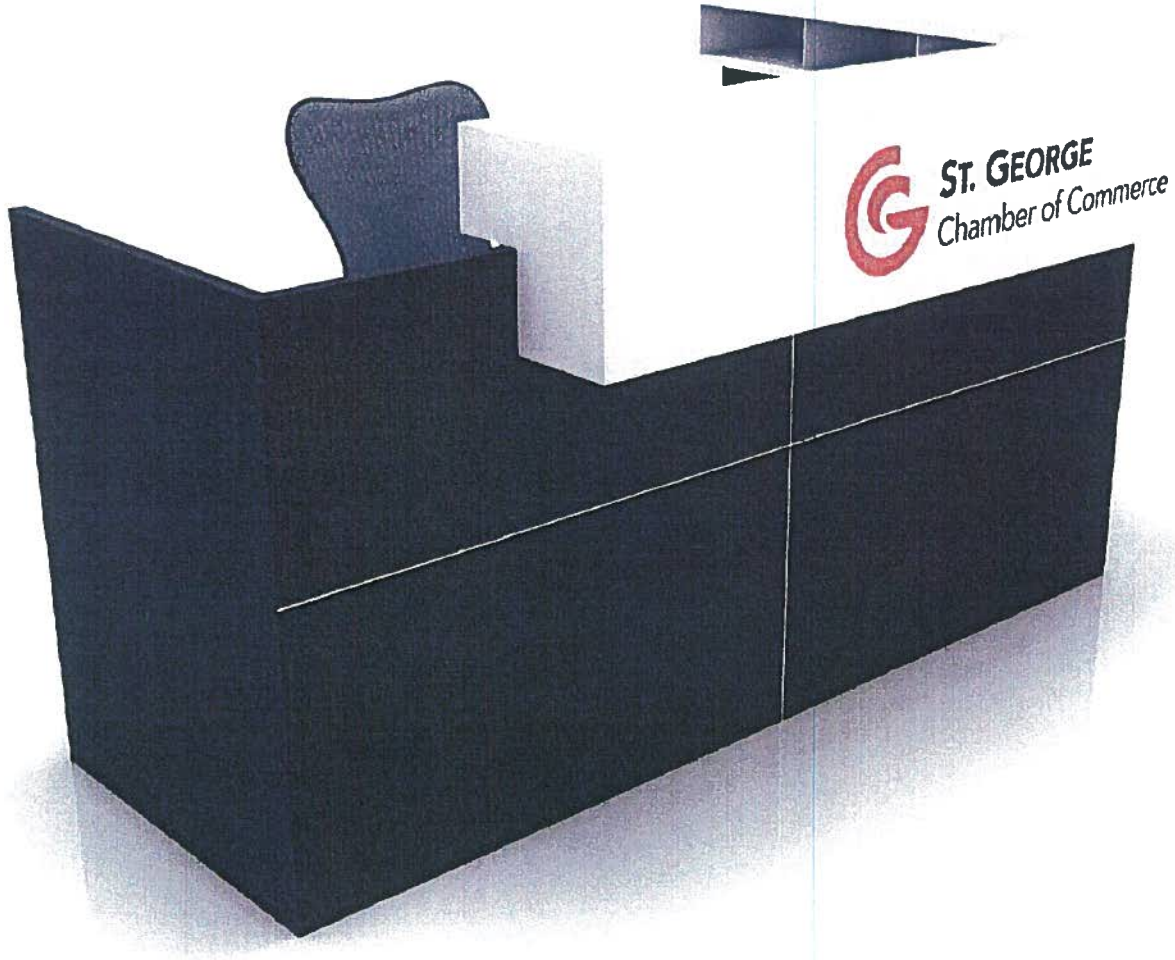


FURNITURE PLAN

LOWER LEVEL

HENRIKSEN BUTLER

ST. GEORGE CHAMBER OF COMMERCE
ST. GEORGE, UTAH



RECEPTION HIVE - RENDERING 1

LEVEL ONE

HENRIKSEN BUTLER

ST. GEORGE CHAMBER OF COMMERCE
ST. GEORGE, UTAH

RECEPTION HIVE - RENDERING 2

LEVEL ONE

HENRIKSEN BUTLER

ST. GEORGE CHAMBER OF COMMERCE
ST. GEORGE, UTAH

WAITING AREA - RENDERING

LEVEL ONE

HENRIKSEN BUTLER

ST. GEORGE CHAMBER OF COMMERCE
ST. GEORGE, UTAH

CONFERENCE ROOM MEETING SPACE - RENDERING

LEVEL ONE

HENRIKSEN BUTLER

ST. GEORGE CHAMBER OF COMMERCE
ST. GEORGE, UTAH

PRESIDENT'S OFFICE HAVEN - RENDERING

LEVEL ONE

HENRIKSEN BUTLER

ST. GEORGE CHAMBER OF COMMERCE
ST. GEORGE, UTAH

STAFF OFFICE HIVE - RENDERING 1

LEVEL ONE

HENRIKSEN BUTLER

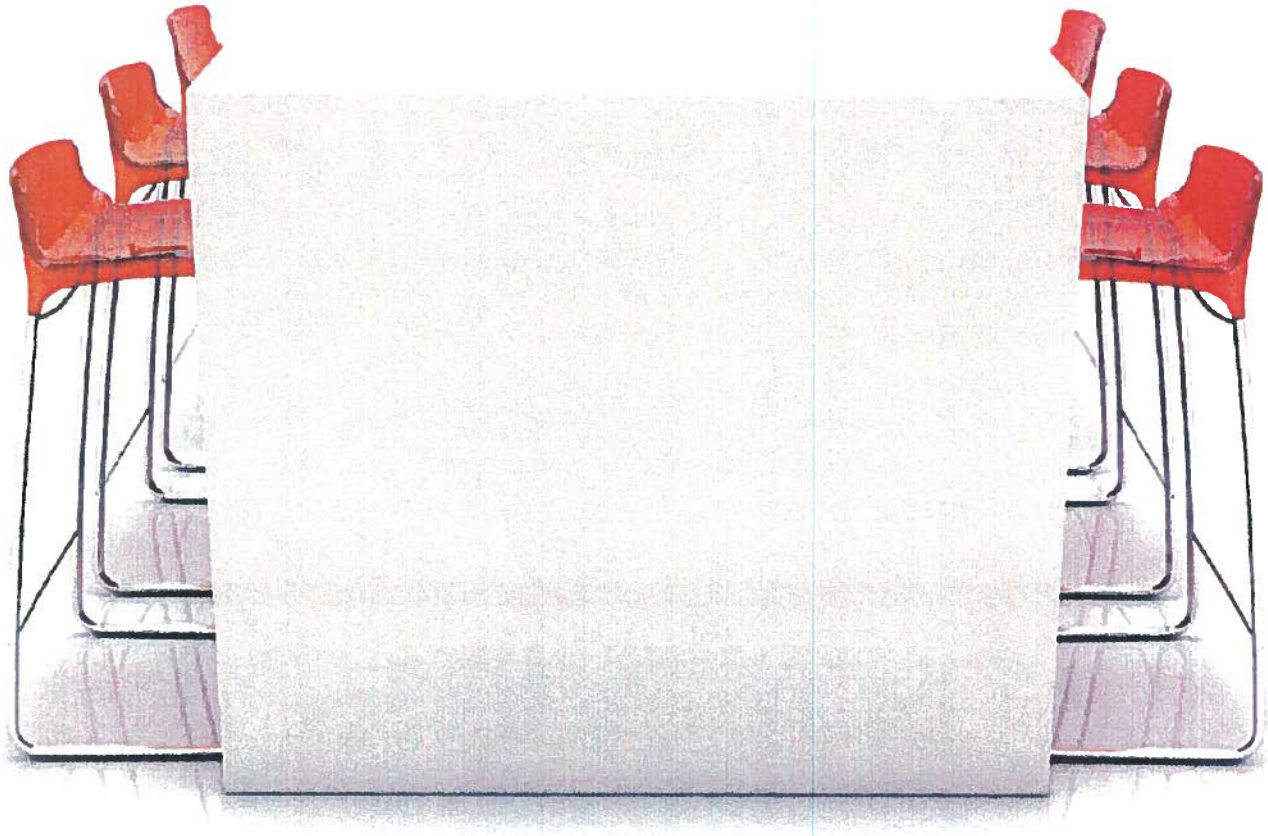
ST. GEORGE CHAMBER OF COMMERCE
ST. GEORGE, UTAH

STAFF OFFICE HIVE - RENDERING 2

LEVEL ONE

HENRIKSEN BUTLER

ST. GEORGE CHAMBER OF COMMERCE
ST. GEORGE, UTAH

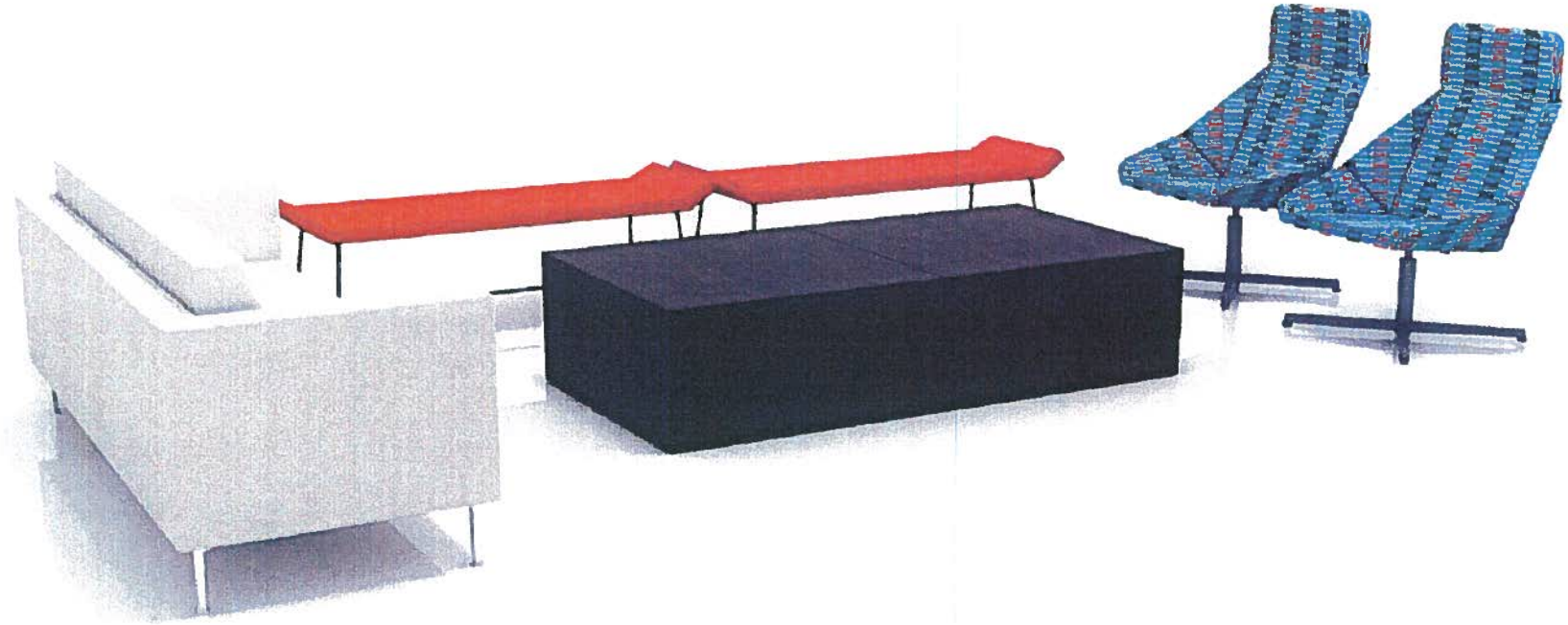


LANDING - RENDERING

LEVEL ONE

HENRIKSEN BUTLER

ST. GEORGE CHAMBER OF COMMERCE
ST. GEORGE, UTAH



OPEN OFFICE WORKSHOP - RENDERING

LEVEL ONE

HENRIKSEN BUTLER

ST. GEORGE CHAMBER OF COMMERCE
ST. GEORGE, UTAH

JUMP SPACE - RENDERING
LOWER LEVEL

HENRIKSEN BUTLER

ST. GEORGE CHAMBER OF COMMERCE
ST. GEORGE, UTAH

MEETING ROOM FORUM - RENDERING

LOWER LEVEL

HENRIKSEN BUTLER