

Step 4: Incorporate Public Feedback and Stakeholder Input



Alternatives presented at the November 2022 public meeting were refined and evaluated along with new alternatives developed based on public and stakeholder feedback.

Phase 1

North Subarea:

- Added Modified Green to improve geometry at the crossing with I-30
 Middle & South Subareas:
- Added Aqua to address public requests and minimize impacts to major utilities and floodplains as well as uneconomic land remainders by combining previous alternatives with minor modifications

Phase 2 (Merged North & South Subareas for further evaluation)

- Added White to represent the 2007 approved alternative; Added Gray &
 Orange as variations with lesser impact considering recent developments
- Added Aqua & Pink in response to public feedback regarding proximity to neighborhoods
- Added Modified Purple in coordination with Kaufman County Outer Loop study and stakeholders
- Added Brown & Violet as variations of previous alternatives to lessen impacts to commercial operations, residences, & major oil/gas pipelines

Evaluation criteria was updated for the following:

- the # of residences within 500 feet of alternatives
- conservation easements acreage located within new alternatives

ALTERNATIVE FEATURES AND POTENTIAL IMPACTS		PHASE 1 NORTH - NEW AND FURTHER EVALUATED ALTERNATIVES						PHASE 1 MIDDLE - NEW AND FURTHER EVALUATED ALTERNATIVES						PHASE 1 SOL	PHASE 1 SOUTH - NEW AND FURTHER EVALUATED ALTERNATIVES			
	10.4		From	Collin County Line	to I-30		1		From I	-30 to North of Line	da Lane		10.4		From North of Linda	Lane to Howell Road		
	ID#		All build alignments are subject to future refinements.				ID#		All build alignmen	nts are subject to f	uture refinements.		ID#	A	ll build alignments are su	ubject to future refiner	nents.	
		1N-Gray	1N-Green	1N-Green MOD	1N-Orange	1N-Purple		1M-Aqua	1M-Blue	1M-Green	1M-Orange	1M-Red		1S-Aqua	1S-Orange	1S-Red	1S-Turquoise	
ENGINEERING / DESIGN FEATURES			- Cons. 11				-											
Alignment Length (miles)	1	3,370	3.612	3.499	3.384	3.660	1	2.700	2.799	2.787	2.755	2.616	1	2.449	2,459	2.396	2.427	
Estimated Existing ROW Utilized (acres)	2	19.6	19.8	17.9	14.6	20.1	2	2.7	0.6	11.3	7.8	0.8	2	2.7	2.8	2.7	2.8	
Estimated Total ROW Required (acres)	3	204.2	214.9	194.1	205.1	221.8	3	163.6	169.6	168.9	166.9	158.6	3	145.7	149.0	145,2	147.1	
COMMUNITY AND SOCIO-ECONOMIC IMPACTS								1			1							
of Property Owners Affected by Proposed ROW	4	29	33	34	23	41	4	17	20	20	16	15	4	21	21	17	20	
Proposed ROW Impact to Public School Properties (acres)	5	0	0	0	0	0	5	0	0	0	0	0	5	0	0	0	0	
Proposed ROW Impact to Other Publicly-Owned Properties / Conservation	6	0	0	0	0	0	6	0	0	O.	Ō	Ō	6	0.0	0.024	0.5	0.5	
Easement (acres)				- 7		7			· ·	0	•			-	1			
# of Displaced Residences	7	1	3	3	1	4	7	0	1	1	0	1	7	4	3	7	3	
# of Residences within 500 feet	7A	34	35	35	32	84	7A	5	15	64	42	24	7A	44	50	59	64	
f of Displaced Publicly-Owned Facilities	8	0	0	0	0	0	8	0	0	0	0	0	8	0	0	0	0	
f of Displaced Barns/Sheds/Detached Garages	9	6	8	8	2	5	9	0	5	6	6	0	9	25	24	20	14	
# of Displaced Places of Worship	10	1	0	0	0	1	10	0	0	0	0	0	10	0	0	0	0	
f of Displaced Billboard Signs	11	0	0	0	0	0	11	0	0	0	0	0	11	0	0	0	0	
f of Displaced Commercial / Industrial / Other Facilities	12	0	0	0	0	2	12	0	0	1	Ō	0	12	2	2	1	1	
f of Census Block Groups with Minority and/or Low-Income Populations	13	0	0	0	0	1	13	0	0	0	Ö	Ö	13	0	0	0	0	
f of TCEQ-Identified High-Risk Hazmat Sites	14	0	0	0	0	0	14	0	0	0	0	0	14	0	0	0	0	
MPACTS TO FEDERAL PROPERTY OR MAJOR INFRASTRUCTURE				7														
Proposed ROW Impact to Federal Land or Projects (acres)	15	0	0	0	0	0	15	0	0	0	0	0	15	0	0	0	0	
Proposed ROW Impact to Railroads (acres)	16	1.23	1.31	1.33	1.17	1.30	16	0	0	0	0	0	16	0	0	0	0	
Proposed ROW Impact to Airports (acres)	17	0	0	0	0	0	17	0	0	0	0	0	17	0	0	0	0	
Proposed ROW Impact to Major Electric Utility Infrastructure (linear feet)	18	6657	3916	3771	3720	3635	18	5443	6401	4399	6185	5140	18	501	365	500	365	
Proposed ROW Impact to Major Oil/Gas Utility Infrastructure (linear feet)	19	538	547	547	540	546	19	5593	10651	8284	5638	9104	19	9899	13201	4395	13277	
# of Displaced Utility Structures	20	3	2	3	1	2	20	4	3	4	5	4	20	1	1	1	1	
MPACTS TO SECTION 4(f) RESOURCES																		
Proposed ROW Impact to Parks (acres)	21	0	0	0	0	0	21	0	0	0	0	0	21	0	0	0	0	
Proposed ROW Impact to Wildlife or Waterfowl Refuges (acres)	22	0	0	0	0	0	22	0	0	0	0	0	22	0	0	0	0	
of Known Historic Properties within the Proposed ROW	23	0	0	0	0	0	23	0	0	0	0	0	23	0	0	0	0	
of Historic-age Properties within the Proposed ROW	24	1	3	3	1	1	24	4	0	1	0	0	24	4	4	4	4	
f of Archeological Sites within Proposed ROW	25	0	0	0	0	0	25	0	-1-	0	0	1	25	0	0	0	0	
Proposed ROW Impact to Areas of High-Risk Potential Archeological Liability	26	0	0.1	0.1	16.5	9.1	26	19.2	11.8	5.5	12.8	13.3	26	0	0	0	0	
(acres)						712			200	0,0							7	
Proposed ROW Impact to Cemeteries (acres)	27	0	0	0	0	0	27	0	0	0	0	0	27	0	0	0	0	
# of Cemeteries within Proposed ROW	28	0	0	0	0	0	28	0	0	0	0	0	28	0	0	0	0	
# of Local/State Landmarks or Historical Markers within the Proposed ROW	29	0	0	0	0	0	29	0	0	0	0	0	29	0	0	0	0	
# of Known Historic Properties within the APE	30	0	0	0	0	0	30	0	0	0	0	0	30	0	0	0	0	
# of Historic-age Properties within the APE	31	4	6	ь	4	5	31	- 1	1	2	2	2	31	5	6	6	6	
MPACTS TO NATURAL RESOURCES	- 00	0.4	8.7	0.7	00.0	40.4		200										
Proposed ROW Impact within 100-Year Floodplain (acres)	32	6.4	3.7	3.7	26.6	13.1	32	36.1	30.2	21.2	25.5	33.3	32	0	0	0	0	
Proposed ROW Impact to Ponds and Lakes (acres)	33	1.6	0.9	0.9	0.4	0.7	33	0.0	0.7	0.5	1.3	0.2	33	0.5	0.5	3.6	1.6	
Proposed ROW Impact to NWI Wetlands (acres)	34	0.12	0.03	0.03	0.21	0.04	34	2.55	3.09	1.56	2.04	3.27	34	0.57	0.70	0.32	0.60	
Proposed ROW Impact to NHD Rivers and Streams (acres)	35	1.53	0.64	0.64	2.14	1.38	35	2.18	2.21	0.98	1.18	2.05	35	0.45	0.48	0.29	0.34	
Proposed ROW Impact to Riparian Forest Areas (acres)	36	3.5	1.5	1.5	14.1	15.2	36	22.4	18.5	12.1	16.7	14.8	36	1.7	2.0	1.0	0.9	
Proposed ROW Impact to Potential Prime Farmland (acres)	37	178.1	187.6	178.3	171.5	199.3	37	151.6	163.0	163.7	158.9	149.6	37	148.4	149.0	145.2	147.0	
TRANSPORTATION PERFORMANCE FEATURES																	4	
Effect on Regional Mobility; Consistency with Approved Thoroughfare Plans; Effect on Local Access; Effect on Operations/Safety; Accomodates Future Traffic;	38-43			TBD			38-43	1		TBD			38-43		T	BD		
Construction Difficulty or Disruption	00 10						00 40			,55			00 10					
COMMUNITY SUPPORT			b															
ocal Agency and Public Official Support (City/County Concurrence); Public	44-45			TBD			44-45			TBD			44-45		T	BD		
Acceptance				1.55/			45			1						2,8		
PROJECT COSTS (IN \$ MILLIONS)	10												16	0			0 0	
Estimated Construction Costs (\$M)	46	\$ 191.6			1275		46	\$ 206.5	200		and the second second	120	46	100	.5 \$ 97.0		0 \$	
Estimated ROW Costs (\$M)	47	\$ 11.6					47	\$ 10.2			100	2.70.00	47		.0 \$ 9.2		0 \$	
stimated Utility Costs (\$M)	48	\$ 1.9	100	1.00	210	1.50	48	\$ 2.1				- Indiana	48	-	No. 2		9 \$	
stimated Engineering Costs (\$M)	49	\$ 19.2			-		49	\$ 20.7			\$ 20.4	\$ 20.8	49				5 \$	
stimated Total Costs (\$M)	50	\$ 224.4	\$ 211.2	\$ 186.2	\$ 346.6	\$ 259.2	50	\$ 239.4	\$ 248.3	\$ 213.5	\$ 236.6	\$ 240.7	50	\$ 114	.0 \$ 116.9	\$ 114	4 \$ 1	

Contract of the Contract of th				PHA	ASE 2 - NEW AND	FURTHER EVALUA	TED ALTERNATI	VES					
ALTERNATIVE FEATURES AND POTENTIAL IMPACTS		From Howell Road to South of SH 205											
ACTEMIATIVE TEATORES AND TOTERTIAL IIII ACTO	ID#	All build alignments are subject to future refinements.											
		Aqua	Brown	Gray	Green/Purple	Green/Purple MOD	Orange	Pink	Violet	White			
NGINEERING / DESIGN FEATURES													
slignment Length (miles)	1	7.911	7.432	7.512	7.367	7.056	7.686	8.986	7.402	6.553			
stimated Existing ROW Utilized (acres)	2	11.7	10.8	8.0	9.4	7.3	15.8	21.8	7.6	21.2			
Estimated Total ROW Required (acres)		479.29	450.28	454.01	446.34	421.1	465.69	544.45	448.47	397.05			
COMMUNITY AND SOCIO-ECONOMIC IMPACTS	2												
of Property Owners Affected by Proposed ROW	4	23	47	22	44	26	30	50	33	62			
Proposed ROW Impact to Public School Properties (acres)	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Proposed ROW Impact to Other Publicly-Owned Properties / Conservation assement (acres)	6	0.00	0.00	0.00	0.00	1.51	0.00	7.37	0.00	0.00			
Proposed ROW Impact to Other HOA-Owned Open Space (acres)	6A	1.65	1.97	2.07	1.97	0.00	2.20	0.00	1.97	7.96			
of Displaced Residences	7	7	2	2	2	1	1	4	4	24			
of Residences within 500 feet	7A	37	67	52	63	54	48	54	64	108			
# of Displaced Publicly-Owned Facilities		0	0	Ö	0	0	0	0	0	0			
# of Displaced Barns/Sheds/Detached Garages		12	8	8	19	19	7	4	9	40			
of Displaced Places of Worship	10	0	0	0	0	0	0	0	0	0			
of Displaced Billboard Signs	11	0	0	0	0	0	0	0	0	1			
of Displaced Commercial / Industrial / Other Facilities	12	1	0	0	2	2	0	0	0	2			
of Census Block Groups with Minority and/or Low-Income Populations	13	0	0	0	0	0	0	0	0	0			
of TCEQ-Identified High-Risk Hazmat Sites	14	0	0	0	0	0	0	0	0	0			
MPACTS TO FEDERAL PROPERTY OR MAJOR INFRASTRUCTURE													
Proposed ROW Impact to Federal Land or Projects (acres)	15	0.00	0.00	0.00	0.20	0.01	0.00	0.00	0.12	0.00			
Proposed ROW Impact to Railroads (acres)	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Proposed ROW Impact to Airports (acres)	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Proposed ROW Impact to Major Electric Utility Infrastructure (linear feet)	18	647	2207	2514	2207	2276	3715	641	2161	6872			
Proposed ROW Impact to Major Oil/Gas Utility Infrastructure (linear feet)	19	646	15944	2297	1961	4073	3454	5907	6247	7457			
of Displaced Utility Structures	20	1	4	4	4	4	7	1	4	12			
MPACTS TO SECTION 4(f) RESOURCES													
Proposed ROW Impact to Parks (acres)	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Proposed ROW Impact to Wildlife or Waterfowl Refuges (acres)	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
of Known Historic Properties within the Proposed ROW	23	0	0	0	0	0	0	0	0	0			
of Historic-age Properties within the Proposed ROW	24	5	4	4	4	5	4	3	4	9			
of Archeological Sites within Proposed ROW	25	0	0	0	0	0	0	0	0	0			
Proposed ROW Impact to Areas of High-Risk Potential Archeological Liability	26	-0.00	4.45	7,255	2.50	20.20	5.47			227			
acres)	THE TAY	29.40	8,42	6,15	8.47	10.47	6.03	11.54	8.47	2.31			
Proposed ROW Impact to Cemeteries (acres)	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
of Cemeteries within Proposed ROW	28	0	0	0	0	0	0	0	0	0			
of Local/State Landmarks or Historical Markers within the Proposed ROW	29	0	0	0	0	0	0	0	0	0			
of Known Historic Properties within the APE	30	0	0	0	0	0	0	0	0	0			
of Historic-age Properties within the APE	31	8	4	6	4	6	5	3	4	10			
MPACTS TO NATURAL RESOURCES													
Proposed ROW Impact within 100-Year Floodplain (acres)	32	78.22	63.33	55.34	63.04	60.93	47.60	47.33	73.69	52.28			
Proposed ROW Impact to Ponds and Lakes (acres)	33	11.23	2.29	1.39	3.44	5.97	3.24	5.05	2.74	2.28			
Proposed ROW Impact to NWI Wetlands (acres)	34	4.80	6.01	2.48	8.66	9.08	2.53	0,60	9.01	3.30			
Proposed ROW Impact to NHD Rivers and Streams (acres)	35	2.99	2.74	2.03	2.77	2.52	2.52	2.68	3.08	2.32			
Proposed ROW Impact to Riparian Forest Areas (acres)	36	14.06	21.77	28.31	23.17	18.46	17.20	41.80	28.44	29.30			
Proposed ROW Impact to Potential Prime Farmland (acres)	37	441.74	432.84	442.44	428.30	402.60	456.10	491.97	424.77	387.61			
RANSPORTATION PERFORMANCE FEATURES													
Effect on Regional Mobility; Consistency with Approved Thoroughfare Plans; Effect						TRD							
on Local Access; Effect on Operations/Safety; Accomodates Future Traffic; Construction Difficulty or Disruption	38-43					TBD							
COMMUNITY SUPPORT			- 4		1		1						
ocal Agency and Public Official Support (City/County Concurrence); Public	44-45			1		TBD							
cceptance	44-45					טפו							
PROJECT COSTS (IN \$ MILLIONS)	400		100		A A				↓				
stimated Construction Costs (\$M)	46	\$ 576.5	1,0,5 (5)						\$ 552.2	\$			
stimated ROW Costs (\$M)	47	\$ 34.4	\$ 29.1	\$ 29.5	\$ 31.0	\$ 29.1	\$ 29.2	\$ 35.2	- U.A.A.				
Stimated Utility Costs (\$M)	48	\$ 5.8		\$ 4.8	\$ 5.	1 \$ 4.8	\$ 4.6	\$ 5.0	\$ 5.5				
stimated Engineering Costs (\$M)	49	\$ 57.7	\$ 52.8	\$ 48.5	\$ 50.9	\$ 47.7	\$ 46.2	\$ 50.3	\$ 55.2				
stimated Total Costs (\$M)	50	\$ 674.3	\$ 615.2	\$ 567.8	\$ 596.0	\$ 559.0	\$ 541.8	\$ 593.0	\$ 643.2	\$!			