		ORTH HAMILTON C	ROSSING (NHX) C		RNATIVES EVALUA		D 115755)
Feature/Consideration	No Build Alternative	Alternative A		Alternative C		Alternative E	Alternative E1
	No Build Alternative	Alternative A		Alternative C pose and Need - Primary N		Alternative E	Alternative E1
Improves East-West Connectivity	No	Yes (Ties to NW Washington Blvd, providing connectivity further west)	Yes (Ties to Lagonda Ave with no direct connectivity further west)	Yes (Ties to relocated Rhea Ave, providing connectivity further west)	Yes (Ties to Gordon Ave, providing connectivity further west)	Yes (Ties to relocated Rhea Ave, providing connectivity further west)	Yes (Ties to relocated Rhea Ave, providing connectivity further west)
Improves Lack of Sufficient River Crossings. Improves Lack of Grade-Separated	No	Yes	Yes	Yes	Yes	Yes	Yes
Railroad Crossings. Improves Mobility/Congestion on Local	No	Yes	Yes	Yes	Yes	Yes	Yes
Road Network	No	Minimal Improvement	Minimal Improvement	Yes	Yes	Yes	Yes
Improves Safety	No	Minimal Improvement	Minimal Improvement Purp	Yes ose and Need - Secondary	Yes Needs	Yes	Yes
Supports Economic Development	No	Yes	Yes	No, impacts City-identified prime development parcels		No, impacts City-identified prime development parcels	No, impacts City-identified prime development parcels
Improves Bike/Pedestrian Connectivity	No	Yes	Yes	Yes	Yes	Yes	Yes Potentially
· · ·		Potentially	Potentially	Potentially Cultural Resources	Potentially	Potentially	
NRHP-Listed Sites NRHP-Listed Historic Districts	None None	Greenwood Cemetery None	Greenwood Cemetery None	Greenwood Cemetery None Section 4(f)/6(f) Sites	Greenwood Cemetery None	Greenwood Cemetery None	Greenwood Cemetery None
Section 4(f)/6(f) Sites	None	Combs Park (bisects), Butler County Fairgrounds (minor), GMR Recreational Trail (minor)	Combs Park (bisects), LJ Smith Park (bisects), Butler County Fairgrounds (minor), GMR Recreational Trail (minor)	LJ Smith Park (bisects), Butler County Fairgrounds (minor), Beltline Trail (minor), GMR Recreational Trail (minor) Ecological Resources	LJ Smith Park (minor), Butler County Fairgrounds (minor), Beltline Trail (minor), GMR Recreational Trail (minor)	LJ Smith Park (minor), Butler County Fairgrounds (minor), Beltline Trail (minor), GMR Recreational Trail (minor)	LJ Smith Park (bisects), Butler County Fairgrounds (minor), Beltline Trail (minor), GMR Recreational Trail (minor)
Great Miami River / Hydraulic Canal Other Large Streams	None None	2 crossings None	2 crossings None	1 crossing None	1 crossing None	1 crossing None	1 crossing None
Wetlands (not including Open Water features)	None	1	1	None	None	None	None
				Floodplains and Floodway			
100-Year Floodplain Encroachment (not including Floodway)	None	20 - 30 ac	3 - 8 ac	< 1 ac	< 1 ac	< 1 ac	< 1 ac
100-Year Floodway Encroachment	None	< 5 ac	< 5 ac	< 5 ac Hazardous Materials	< 5 ac	< 5 ac	< 5 ac
Regulated Materials Review	None	6 LUST, 12 UST, 2 RCRA	10 LUST, 13 UST, 5 RCRA, 1 DERR site, 1 site with Institutional Controls	8 LUST, 15 UST, 7 RCRA, 1 NPL site, 1 DERR site, 1 site with Institutional Controls, 1 spill	9 LUST, 20 UST, 5 RCRA, 1 DERR site, 2 sites with Institutional Controls, 1 spill, 3 VAP2	4 LUST, 3 UST, 4 RCRA, 2 spills	3 LUST, 4 RCRA, 1 NPL, 2 spills
Farmland Impacts	None	35 - 45 acres	20 - 30 acres	Community and Land Use None	None	None	None
Community Facilities	None	BCEO, Transitional Learning Center	BCEO, Transitional Learning Center	BCEO, Transitional Learning Center, Electric Power House, Pentecostal Apostolic Church	BCEO, Transitional Learning Center, Electric Power House, True Free Christian Church of God	BCESC Main Building, Transitional Learning Center, Hamilton Fire Station 25, Fairwood Elementary School, Butler County Children Services, Juvenile Justice Center, Butler County Board of Developmental Disabilities, Electric Power House	BCESC Main Building, Transitional Learning Center, Fairwood Elementary School, Butler County Children Services, Juvenile Justice Center, Butler County Board of Developmental Disabilities, Electric Power House, Pentecostal Apolistic Church (R/W)
Cemeteries (Non-Historic)	None	Greenwood Cemetery (<0.5 ac)	Greenwood Cemetery (>0.5 ac)	Greenwood Cemetery (>0.5 ac)	Greenwood Cemetery (>0.5 ac)	None	None
Traditionally Underserved Populations per Census Blocks	None	Impacts to Minority, Low Income & Over 64	Impacts to Minority, Low Income & Over 64	Impacts & Displacements to Minority, Low Income & Over 64	Impacts & Displacements to Minority, Low Income & Over 64	Impacts & Displacements to Minority, Low Income & Over 64	Impacts & Displacements to Minority, Low Income & Over 64
Public Concerns	TBD	TBD	St TBD	akeholder/Public Involvem TBD	ent TBD	TBD	TBD
Stakeholder Concerns	TBD	TBD	TBD	TBD Right-of-Way	TBD	TBD	TBD
Relocations							
	None	5 - 15 85 - 95 acres	5 - 15 50 - 60 acres	10 - 20 25 - 35 acres	15 - 25 10 - 20 acres	45 - 55 25 -35 acres	55 - 65 20 -30 acres
Right-of-Way (acres)	None	85 - 95 acres	50 - 60 acres	25 - 35 acres Engineering Consideration	10 - 20 acres s	25 -35 acres	20 -30 acres
			50 - 60 acres	25 - 35 acres	10 - 20 acres		
Right-of-Way (acres) Alternative Length (mi)	None N/A	85 - 95 acres 2.70	50 - 60 acres 2.64	25 - 35 acres Engineering Consideration 2.59 35 North B Street may require profile adjustments	10 - 20 acres s 2.86	25 -35 acres 2.26 35 North B Street may	20 -30 acres 2.29
Right-of-Way (acres) Alternative Length (mi) Design Speed (mph)	None N/A N/A	85 - 95 acres 2.70 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades mear roundabout. Not directly connected to US 127 requiring connecting road and additional traffic signal. Significant fill required in floodplain. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is	50 - 60 acres 2.64 35 Requires North B Street to be raised roughly 5 feet at west terminus. Requires US 127 to be raised roughly 10 feet. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is	25 - 35 acres Engineering Consideration 2.59 35 North B Street may require profile adjustments at west terminus. Requires US 127 to be raised roughly 13 feet. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton	10 - 20 acres S 2.86 35 North B Street may require profile adjustments at west terminus. North B Street intersection is in a curve. Intersection at US 127 is skewed. Proximity of US 127 intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton	25-35 acres 2.26 35 North B Street may require profile adjustments at west terminus. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is	20 -30 acres 2.29 35 North B Street may require profile adjustments at west terminus. Intersection at US 127 is skewed and may requires skewed and may requires to be raised 1 to 2 feet. Proximity of US 127 intersection to power plant reduces sight distance. Steep grade on alignment approaching 127 from crossing over railroad and near Humane Society and requires retaining wall. Intersection of Princeton
Right-of-Way (acres) Alternative Length (mi) Design Speed (mph) Roadway Design Issues	None N/A N/A	85 - 95 acres 2.70 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Not directly connected to US 127 requiring connecting road and additional traffic signal. Significant fill required in floodplain. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. No existing flood levy at	50 - 60 acres 2.64 35 Requires North B Street to be raised roughly 5 feet at west terminus. Requires US 127 to be raised roughly 10 feet. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5	25 - 35 acres Engineering Consideration 2.59 35 North B Street may require profile adjustments at west terminus. Requires US 127 to be raised roughly 13 feet. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2	10 - 20 acres S 2.86 35 North B Street may require profile adjustments at west terminus. North B Street intersection is in a curve. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2	25 -35 acres 2.26 35 North B Street may require profile adjustments at west terminus. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on aignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2	20 -30 acres 2.29 35 North B Street may require profile adjustments at west terminus. Intersection at US 127 is skewed and may requires skewed and may requires thersection to power plant reduces sight distance. Steep grade on alignment approaching 127 from crossing over railroad and near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2
Right-of-Way (acres) Alternative Length (mi) Design Speed (mph) Roadway Design Issues Existing Flood Levy Design Issues Number of New Structures Requiring	None N/A N/A N/A	2.70 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Not directly connected to US 127 requiring connecting road and additional traffic signal. Significant fill required in floodplain. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. No existing flood levy at this location	50 - 60 acres 2.64 35 Requires North B Street to be raised roughly 5 feet at west terminus. Requires US 127 to be raised roughly 10 feet. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet.	25 - 35 acres Engineering Consideration 2.59 35 North B Street may require profile adjustments at west terminus. Requires US 127 to be raised roughly 13 feet. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet.	10 - 20 acres 2.86 35 North B Street may require profile adjustments at west terminus. North B Street intersection is in a curve. Intersection at US 127 is skewed. Proximity of US 127 intersection at US 127 is skewed. Proximity of US 127 intersection at US 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet.	25 -35 acres 2.26 35 North B Street may require profile adjustments at west terminus. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet.	20 -30 acres 2.29 35 North B Street may require profile adjustments at west terminus. Intersection at US 127 is skewed and may requires US 127 to be raised 1 to 2 feet. Proximity of US 127 intersection to power plant reduces sight distance. Steep grade on alignment approaching 127 from crossing over railroad and near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet.
Right-of-Way (acres) Alternative Length (mi) Design Speed (mph) Roadway Design Issues Existing Flood Levy Design Issues Number of New Structures Requiring Long-Term Maintenance	None N/A N/A N/A N/A N/A N/A N/A Black Street Bridge reaching end of serviceable life for vehicular traffic and cannot be widened. Replacement on same alignment would result in closure during	2.70 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Not directly connected to US 127 requiring connecting road and additional traffic signal. Significant fill required in floodplain. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. No existing flood levy at this location	50 - 60 acres         2.64         35         Requires North B Street to be raised roughly 5 feet at west terminus. Requires US 127 to be raised roughly 10 feet. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed.         Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet.         3         River Bridge - tie into floodwall system required         Electric Transmission Line relocations required near SR 4. Coordination with hydroelectric plant.	25 - 35 acres Engineering Consideration 2.59 35 North B Street may require profile adjustments at west terminus. Requires US 127 to be raised roughly 13 feet. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 2 No significant issues Power plant located on US 127 impacted.	10 - 20 acres  2.86 35 North B Street may require profile adjustments at west terminus. North B Street intersection is in a curve. Intersection is in a curve. Intersection is in a curve. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. 2 River Bridge - Curve at NW end of bridge complicates design RR bridge - Severe skew complicates design RR bridge - Severe skew complicates design Electric Transmission Line relocations required for Railroad overpass and near SR 4. Power plant located on US 127 impacted.	25 -35 acres 2.26 35 North B Street may require profile adjustments at west terminus. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 2 River Bridge - Curve at SE end of bridge & taper at NW end complicates design Rt bridge - Severe skew	20 -30 acres 2.29 35 North B Street may require profile adjustments at west terminus. Intersection at US 127 is skewed and may requires US 127 to be raised 1 to 2 feet. Proximity of US 127 intersection to power plant reduces sight distance. Steep grade on alignment approaching 127 from crossing over railroad and near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 2 River Bridge - Curve at SE end of bridge & taper at NW end complicates design RR bridge - Severe skew
Right-of-Way (acres)         Alternative Length (mi)         Design Speed (mph)         Roadway Design Issues         Roadway Design Issues         Existing Flood Levy Design Issues         Number of New Structures Requiring Long-Term Maintenance         Structural Design Issues         Major Utility Relocations and/or Issues         Major Utility Relocations and/or Issues	None N/A N/A N/A N/A N/A N/A N/A N/A Black Street Bridge reaching end of serviceable life for vehicular traffic and cannot be widened. Replacement on same alignment would result in closure during construction.	2.70 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades mear roundabout. Not directly connected to US 127 requiring connecting road and additional traffic signal. Significant fill required in floodplain. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. No existing flood levy at this location 5 Electric Transmission Line relocations required at NW Washington Blvd and near	50 - 60 acres         2.64         35         Requires North B Street to be raised roughly 5 feet at west terminus. Requires US 127 to be raised roughly 10 feet. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed.         Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet.         3         River Bridge - tie into floodwall system required         Electric Transmission Line relocations required near SR 4. Coordination with hydroelectric plant.	25 - 35 acres Engineering Consideration 2.59 35 North B Street may require profile adjustments at west terminus. Requires US 127 to be raised roughly 13 feet. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 2 No significant issues Power plant located on US	10 - 20 acres  2.86  35  North B Street may require profile adjustments at west terminus. North B Street intersection is in a curve. Intersection is in a curve. Intersection is in a curve. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed.  The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street.  2  River Bridge - Curve at NW end of bridge complicates design RR bridge - Severe skew complicates design RR bridge - Severe skew complicates design Electric Transmission Line relocations required for Railroad overpass and near SR 4. Power plant located on US 127 impacted.	25 -35 acres 2.26 35 North B Street may require profile adjustments at west terminus. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on aignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 2 River Bridge - Curve at SE end of bridge & taper at NW end complicates design RR bridge - Severe skew complicates design Electric Transminssion & Distribution Line relocations required near US 127. Power plant located on US 127	20 -30 acres 2.29 35 North B Street may require profile adjustments at west terminus. Intersection at US 127 is skewed and may requires US 127 to be raised 1 to 2 feet. Proximity of US 127 intersection to power plant reduces sight distance. Steep grade on alignment approaching 127 from crossing over railroad and near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 2 River Bridge - Curve at SE end of bridge & taper at NW end complicates design RR bridge - Severe skew complicates design Electric Transminssion & Distribution Line relocations required near US 127. Power plant located on US 127
Right-of-Way (acres)         Alternative Length (mi)         Design Speed (mph)         Roadway Design Issues         Roadway Design Issues         Existing Flood Levy Design Issues         Number of New Structures Requiring Long-Term Maintenance         Structural Design Issues         Major Utility Relocations and/or Issues	None N/A N/A N/A N/A N/A N/A N/A Black Street Bridge reaching end of serviceable life for vehicular traffic and cannot be widened. Replacement on same alignment would result in closure during construction. None None	2.70 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Not directly connected to US 127 requiring connecting road and additional traffic signal. Significant fill required in floodplain. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. No existing flood levy at this location 5 No significant issues Electric Transmission Line relocations required at NWW Washington Blvd and near SR 4.	50 - 60 acres 2.64 35 Requires North B Street to be raised roughly 5 feet at west terminus. Requires US 127 to be raised roughly 10 feet. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet. 3 River Bridge - tie into floodwall system required Electric Transmission Line relocations required near SR 4. Coordination with hydroelectric plant. Traffic/M	25 - 35 acres Engineering Consideration 2.59 35 North B Street may require profile adjustments at west terminus. Requires US 127 to be raised roughly 13 feet. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 2 No significant issues Power plant located on US 127 impacted.	10 - 20 acres 2.86 35 North B Street may require profile adjustments at west terminus. North B Street intersection is in a curve. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 2 River Bridge - Curve at NW end of bridge complicates design RR bridge - Severe skew complicates design RR bridge - Severe skew complicates design RR bridge - Applied for Rairoad overpass and near SR 4. Power plant located on US 127 impacted.	25 -35 acres 2.26 35 North B Street may require profile adjustments at west terminus. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 2 River Bridge - Curve at SE end of bridge & taper at NW end complicates design RR bridge - Severe skew complicates design Electric Transminssion & Distribution Line relocations required near US 127. Power plant located on US 127 impacted.	20 -30 acres 2.29 35 North B Street may require profile adjustments at west terminus. Intersection at US 127 is skewed and may requires US 127 to be raised 1 to 2 feet. Proximity of US 127 intersection to power plant reduces sight distance. Steep grade on alignment approaching 127 from crossing over railroad and near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 2 River Bridge - Curve at SE end of bridge & taper at NW end complicates design RR bridge - Severe skew complicates design Electric Transminssion & Distribution Line relocations required near US 127. Power plant located on US 127 impacted.
Right-of-Way (acres)         Alternative Length (mi)         Design Speed (mph)         Roadway Design Issues         Roadway Design Issues         Existing Flood Levy Design Issues         Number of New Structures Requiring Long-Term Maintenance         Structural Design Issues         Major Utility Relocations and/or Issues         Anticipated Alternative Travel Time (MM:SS)         Anticipated High Street (SR 129)	None N/A N/A N/A N/A N/A N/A N/A N/A N/A Black Street Bridge reaching end of serviceable life for vehicular traffic and cannot be widened. Replacement on same alignment would result in closure during construction. None None None N/A AM Peak-Hour - 00:00	85 - 95 acres         2.70         35         Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Not directly connected to US 127 requiring connecting road and additional traffic signal. Significant fill required in floodplain. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed.         No existing flood levy at this location         5         No significant issues         Electric Transmission Line relocations required at NW Washington Bvd and near SR 4.         5:53         AM Peak-Hour - 00:09 PM Peak-Hour - 00:00	50 - 60 acres 2.64 35 Requires North B Street to be raised roughly 5 feet at west terminus. Requires US 127 to be raised roughly 10 feet. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet. 3 River Bridge - tie into floodwall system required Electric Transmission Line relocations required near SR 4. Coordination with hydroelectric plant. Traffic/M 6:20 AM Peak-Hour - 00:09 PM Peak-Hour - 00:00	25 - 35 acres Engineering Consideration 2.59 35 North B Street may require profile adjustments at west terminus. Requires US 127 to be raised roughly 13 feet. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot with. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 2 No significant issues Power plant located on US 127 impacted. aintenance of Traffic Consi 6:37 AM Peak-Hour - 00:28 AM Peak-Hour - 8%	10 - 20 acres  2.86  35  North B Street may require profile adjustments at west terminus. North B Street intersection is in a curve. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 2 River Bridge - Curve at NW end of bridge complicates design RR bridge - Severe skew complicates design RR bridge - Severe skew complicates design Electric Transmission Line relocations required for Railroad overpass and near SR 4. Power plant located on US 127 impacted. 6:10 AM Peak-Hour - 00:18 PM Peak-Hour - 00:20 AM Peak-Hour - 5%	25 -35 acres 2.26 35 North B Street may require profile adjustments at west terminus. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 2 River Bridge - Curve at SE end of bridge & taper at NW end complicates design RR bridge - Severe skew complicates design Electric Transminssion & Distribution Line relocations required near US 127. Power plant located on US 127 impacted. 5:44 AM Peak-Hour - 00:33	20 -30 acres 2.29 35 North B Street may require profile adjustments at west terminus. Intersection at US 127 is skewed and may requires US 127 to be raised 1 to 2 feet. Proximity of US 127 intersection to power plant reduces sight distance. Steep grade on alignment approaching 127 from crossing over railroad and near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 2 River Bridge - Curve at SE end of bridge & taper at NW end complicates design RR bridge - Severe skew complicates design Cated on US 127 impacted. 5:44 AM Peak-Hour - 00:33 PM Peak-Hour - 00:56 AM Peak-Hour - 14%
Right-of-Way (acres)         Alternative Length (mi)         Design Speed (mph)         Roadway Design Issues         Roadway Design Issues         Existing Flood Levy Design Issues         Number of New Structures Requiring Long-Term Maintenance         Structural Design Issues         Major Utility Relocations and/or Issues         Anticipated Alternative Travel Time (MM:SS)         Anticipated % Reduction in High Street         Anticipated % Reduction in High Street	None N/A	85 - 95 acres         2.70         35         Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Not directly connected to US 127 requiring connecting road and additional traffic signal. Significant fill required in floodplain. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed.         No existing flood levy at this location         5         No significant issues         Electric Transmission Line relocations required at NW Washington Blvd and near SR 4.         5:53         AM Peak-Hour - 00:09 PM Peak-Hour - 00:09 PM Peak-Hour - 0% Construction of roundabout at the intersection of We Elkton Rd and N B St will likely require a closure. Intersection of Neal Blvd	50 - 60 acres         2.64         35         Requires North B Street to be raised roughly 5 feet at west terminus. Requires US 127 to be raised roughly 10 feet. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed.         Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet.         3         River Bridge - tie into floodwall system required near SR 4. Coordination with hydroelectric plant.         Electric Transmission Line relocations required near SR 4. Coordination with hydroelectric plant.         Traffic/M 6:20         AM Peak-Hour - 00:09         PM Peak-Hour - 00:00	25 - 35 acres Engineering Consideration 2.59 35 North B Street may require profile adjustments at west terminus. Requires US 127 to be raised roughly 13 feet. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. 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Right-of-Way (acres)         Alternative Length (mi)         Design Speed (mph)         Roadway Design Issues         Roadway Design Issues         Existing Flood Levy Design Issues         Number of New Structures Requiring Long-Term Maintenance         Structural Design Issues         Major Utility Relocations and/or Issues         Anticipated Alternative Travel Time (MM:SS)         Anticipated High Street (SR 129) Travel Time Savings (MM:SS)         Anticipated % Reduction in High Street (SR 129) Traffic	None N/A	85 - 95 acres         2.70         35         Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Not directly connected to US 127 requiring connecting road and additional traffic signal. Significant fill required in floodplain. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed.         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Right-of-Way (acres)         Alternative Length (mi)         Design Speed (mph)         Roadway Design Issues         Roadway Design Issues         Existing Flood Levy Design Issues         Number of New Structures Requiring Long-Term Maintenance         Structural Design Issues         Major Utility Relocations and/or Issues         Anticipated Alternative Travel Time (MM:SS)         Anticipated High Street (SR 129) Travel Time Savings (MM:SS)         Anticipated % Reduction in High Street (SR 129) Traffic         Maintenance of Traffic Concerns	None N/A	85 - 95 acres         2.70         35         Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Not directly connected to US 127 required in floodplain. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed.         No existing flood levy at this location         5         No significant issues         Electric Transmission Line relocations required at NW Washington Blvd and near SR 4.         5:53         AM Peak-Hour - 00:00 AM Peak-Hour - 2% PM Peak-Hour - 2% PM Peak-Hour - 2% PM Peak-Hour a closure. Intersection of Neal Blvd and Joe Nuxhall Blvd will likely require a closure. Intersection of Neal Blvd and Joe Nuxhall Blvd will likely require short term closures.	50 - 60 acres  2.64  35  Requires North B Street to be raised roughly 5 feet at west terminus. Requires US 127 to be raised roughly 10 feet. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed.  Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require the profile to be elevated to avoid the levy. 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Right-of-Way (acres)         Alternative Length (mi)         Design Speed (mph)         Roadway Design Issues         Roadway Design Issues         Existing Flood Levy Design Issues         Number of New Structures Requiring Long-Term Maintenance         Structural Design Issues         Major Utility Relocations and/or Issues         Anticipated Alternative Travel Time (MM:SS)         Anticipated High Street (SR 129) Travel Time Savings (MM:SS)         Anticipated % Reduction in High Street (SR 129) Traffic         Maintenance of Traffic Concerns         Preliminary Construction Costs         Preliminary Design & Management	None N/A N/A N/A N/A N/A N/A N/A N/A N/A Black Street Bridge reaching end of serviceable life for vehicular traffic and cannot be widened. Replacement on same alignment would result in closure during construction. N/A N/A N/A MPeak-Hour - 00:00 PM Peak-Hour - 0% None None None None None None None None	85 - 95 acres         2.70         35         Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Not directly connected to US 127 requiring connecting road and additional traffic signal. Significant fill required in floodplain. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed.         No existing flood levy at this location         So existing flood levy at this location         So significant issues         So significant issues         See Acression Line relocations required at NW Washington Blvd and near SR 4.         Significant issues         Construction of roundabout at the intersection of Weak-Hour - 0% Construction of roundabout at the intersection of Neal Blvd and Joe Nuxhall Blvd will likely require a closure. Intersection of Neal Blvd and Joe Nuxhall Blvd will likely requires short term closures.         \$85 - \$95 million         \$7 - \$12 million         \$15 - \$20 million	50 - 60 acres         2.64         35         Requires North B Street to be raised roughly 5 feet at west terminus. Requires US 127 to be raised roughly 10 feet. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed.         Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet.         3         River Bridge - tie into floodwall system required floodwall system required         Steet Cordination with hydroelectric plant.         Fred.         3         Coordination with hydroelectric plant.         M Peak-Hour - 00:09 PM Peak-Hour - 00:09 PM Peak-Hour - 00:09 PM Peak-Hour - 00:09 PM Peak-Hour - 0%         Complicated construction staging at North B Street. North B Street & US 127 may require closures to raise the profiles. Complex detours would be required.         \$75 - \$85 million         \$75 - \$85 million         \$75 - \$12 million	25 - 35 acres Engineering Consideration 2.59 35 North B Street may require profile adjustments at west terminus. Requires US 127 to be raised roughly 13 feet. Intersection at US 127 is skewed. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near BCEO and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. 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Right-of-Way (acres)         Alternative Length (mi)         Design Speed (mph)         Roadway Design Issues         Roadway Design Issues         Existing Flood Levy Design Issues         Number of New Structures Requiring Long-Term Maintenance         Structural Design Issues         Major Utility Relocations and/or Issues         Anticipated Alternative Travel Time (MM:SS)         Anticipated High Street (SR 129)         Travel Time Savings (MM:SS)         Anticipated % Reduction in High Street (SR 129)         Travel Time Savings (MM:SS)         Anticipated Street (SR 129)         Travel Time Savings (MM:SS)         Anticipated Ye Reduction in High Street (SR 129)         Maintenance of Traffic Concerns         Maintenance of Traffic Concerns         Preliminary Construction Costs         Preliminary Right of Way Costs	None N/A N/A N/A N/A N/A N/A N/A N/A N/A Black Street Bridge reaching end of serviceable life for vehicular traffic and cannot be widened. 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		DF	RAFT NHX CONCEP	TUAL ALTERNATI	/ES EVALUATION I	MATRIX (PID 1157	55)	
Feature/Consideration	Alternative AC	Alternative AD	Alternative AE		Alternatives Alternative BD	Alternative BE	Alternative ABE	Alternative EBE
Improves East-West Connectivity	Yes (Ties to NW Washington Blvd, providing connectivity further west)	Yes (Ties to NW Washington Blvd, providing connectivity further west)	Yes (Ties to NW Washington Blvd, providing connectivity further west)	Purpose and Nee Yes (Ties to Lagonda Ave with no direct connectivity further west)	d - Primary Needs Yes (Ties to Lagonda Ave with no direct connectivity further west)	Yes (Ties to Lagonda Ave with no direct connectivity further west)	Yes (Ties to NW Washington Blvd, providing connectivity further west)	Yes (Ties to Gordon Ave, providing connectivity further west)
Improves Lack of Sufficient River Crossings.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Improves Lack of Grade-Separated Railroad Crossings.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Improves Mobility/Congestion on Local Road Network	Minimal Improvement	Minimal Improvement	Yes	Minimal Improvement	Minimal Improvement	Yes	Yes	Yes
Improves Safety	Minimal Improvement	Minimal Improvement	Yes	Minimal Improvement Purpose and Need	Minimal Improvement	Yes	Yes	Yes
Supports Economic Development		No, impacts City-identified prime development parcels		No, impacts City-identified prime development parcels	No, impacts City-identified	No, impacts City-identified prime development parcels	Yes	Yes
Improves Bike/Pedestrian Connectivity	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Improves Multimodal Linkage	Potentially	Potentially	Potentially	Potentially	Potentially	Potentially	Potentially	Potentially
NRHP-Listed Sites	Greenwood Cemetery	Greenwood Cemetery	Greenwood Cemetery	Cultural F Greenwood Cemetery	Resources Greenwood Cemetery	Greenwood Cemetery	Greenwood Cemetery	Greenwood Cemetery
NRHP-Listed Historic Districts	None	None	None	None Section 4(	None f)/6(f) Sites	None	None	None
Section 4(f)/6(f) Sites	Combs Park (bisects), LJ Smith Park (bisects), Butler County Fairgrounds (minor)	Combs Park (bisects), LJ Smith Park (minor), Butler County Fairgrounds (minor)	Combs Park (bisects), LJ Smith Park (minor), Butler County Fairgrounds (minor)	Combs Park (bisects), LJ Smith Park (bisects), Butler County Fairgrounds (minor)	Combs Park (bisects), LJ Smith Park (minor), Butler County Fairgrounds (minor)	Combs Park (bisects), LJ Smith Park (minor), Butler County Fairgrounds (minor)	LJ Smith Park (bisects), Combs Park (bisects), Butler County Fairgrounds (minor), GMR Recreational Trail (minor)	LJ Smith Park (bisects), Butler Co. Fairgrounds (minor), GMR Recreational Trail (minor), Beltline Trail (bisects)
Great Miami River / Hydraulic Canal	1 crossing	1 crossing	1 crossing	Ecological 1 crossing	Resources 1 crossing	1 crossing	2 crossings	2 crossings
Other Large Streams Wetlands (not including Open Water	None	None	None	None	None	None	None 1	None 1
features)	None	None	None	Floodplains		None	I	ļ.
100-Year Floodplain Encroachment (not including Floodway)	< 1 ac	< 1 ac	< 1 ac	< 1 ac	< 1 ac	< 1 ac	5 - 10 ac	5 - 10 ac
100-Year Floodway Encroachment	< 5 ac	< 5 ac	< 5 ac	< 5 ac	< 5 ac	< 5 ac	< 5 ac	< 5 ac
				Hazardou	s Materials			
Regulated Materials Review	8 LUST, 15 UST, 7 RCRA, 1 NPL site, 1 DERR site, 1 site with Institutional Controls	9 LUST, 20 UST, 5 RCRA, 1 DERR site, 2 sites with Institutional Controls, 3 VAP2	4 LUST, 3 UST, 4 RCRA, 1 spill	8 LUST, 15 UST, 7 RCRA, 1 NPL site, 1 DERR site, 1 site with Institutional Controls	7 LUST, 17 UST, 5 RCRA, 1 DERR site, 2 sites with Institutional Controls, 3 VAP2	4 LUST, 3 UST, 4 RCRA, 1 spill	7 LUST, 2 UST, 3 RCRA, 1 spill	7 LUST, 2 UST, 4 RCRA, 1 spill
Farmland Impacts	None	None	None	Community a None	None	None	20 - 30 acres	20 - 30 acres
Community Facilities	BCEO, Transitional Learning Center, Electric Power House, Pentecostal Apostolic Church	BCEO, Transitional Learning Center, Electric Power House, True Free Christian Church of God	BCESC Main Building, Transitional Learning Center, Hamilton Fire Station 25, Fairwood Elementary School, Butler County Children Services, Juvenile Justice Center, Butler County Board of Developmental Disabilities, Electric Power House	BCEO, Transitional Learning Center, Electric Power House, Pentecostal Apostolic Church	BCEO, Transitional Learning Center, Electric Power House, True Free Christian Church of God	BCESC Main Building, Transitional Learning Center, Hamilton Fire Station 25, Fairwood Elementary School, Butler County Children Services, Juvenile Justice Center, Butler County Board of Developmental Disabilities, Electric Power House	BCESC Main Building, Transitional Learning Center, Fairwood Elementary School, Butler County Children Services, Juvenile Justice Center, Butler County Board of Developmental Disabilities, Pentecostal Apolistic Church (R/W)	BCESC Main Building, Transitional Learning Center, Fairwood Elementary School, Butler County Children Services, Juvenile Justice Center, Butler County Board of Developmental Disabilities, Pentecostal Apolistic Church (R/W)
Cemeteries (Non-Historic)	Greenwood Cemetery	Greenwood Cemetery	None	Greenwood Cemetery	Greenwood Cemetery	None	None	None
Traditionally Underserved Populations per Census Blocks	(>0.5 ac) Impacts & Displacements to Minority, Low Income & Over 64	(>0.5 ac) Impacts & Displacements to Minority, Low Income & Over 64	Impacts & Displacements to Minority, Low Income & Over 64	(>0.5 ac) Impacts & Displacements to Minority, Low Income & Over 64	(>0.5 ac) Impacts & Displacements to Minority, Low Income & Over 64	Impacts & Displacements to Minority, Low Income & Over 64	Impacts & Displacements to Minority, Low Income & Over 64	Impacts & Displacements to Minority, Low Income & Over 64
Public Concerns	TBD	TBD	TBD	Stakeholder/Pu TBD	blic Involvement TBD	TBD	TBD	TBD
Stakeholder Concerns	TBD	TBD	TBD	TBD Right-	TBD of-Way	TBD	TBD	TBD
Relocations Right-of-Way (acres)	5 - 15	10 - 20	45 - 55	10 - 20	45 05	45 - 55	55 - 65	55 - 65
	25 - 35 acres	5 - 15 acres	25 -35 acres		15 - 25 10 - 20 acres			
	25 - 35 acres	5 - 15 acres	25 -35 acres	20 -30 acres Engineering C	10 - 20 acres onsiderations	20 -30 acres	50 - 60 acres	45 - 55 acres
Alternative Length (mi) Design Speed (mph)	3.43 35	3.61 35	3.02 35	20 -30 acres	10 - 20 acres			
Alternative Length (mi)	3.43	3.61	3.02	20 -30 acres Engineering C 2.85	10 - 20 acres considerations 3.02	20 -30 acres	50 - 60 acres 3.2	45 - 55 acres 2.49
Alternative Length (mi) Design Speed (mph)	3.43 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is	3.61 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is	3.02 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton	20-30 acres Engineering C 2.85 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.	10 - 20 acres considerations 3.02 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is	20 -30 acres 2.44 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on aignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system	50 - 60 acres 3.2 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Steep grade approaching US te9 grade approaching US te9 grade approaching US te9 grade approaching US te9 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is	45 - 55 acres 2.49 35 Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton
Alternative Length (mi) Design Speed (mph) Roadway Design Issues	3.43 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.	3.61 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.	3.02 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.	20-30 acres Engineering C 2.85 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.	10 - 20 acres considerations 3.02 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5	20 -30 acres 2.44 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5	50 - 60 acres 3.2 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. No existing flood levy at	45 - 55 acres 2.49 35 Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2
Alternative Length (mi) Design Speed (mph) Roadway Design Issues Existing Flood Levy Design Issues Number of New Structures Requiring	3.43 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.	3.61 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.	3.02 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. No existing flood levy at this location	20-30 acres Engineering C 2.85 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.	10 - 20 acres considerations 3.02 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet.	20 -30 acres 2.44 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet.	50 - 60 acres 3.2 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. No existing flood levy at this location	45 - 55 acres 2.49 35 Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet.
Alternative Length (mi) Design Speed (mph) Roadway Design Issues Existing Flood Levy Design Issues Number of New Structures Requiring Long-Term Maintenance	3.43 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades mear roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. No existing flood levy at this location 2	3.61 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. No existing flood levy at this location 2 RR bridge - Severe skew	3.02 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. No existing flood levy at this location 2 RR bridge - Severe skew complicates design Electric Transmission Line relocations required at NW Washington Blvd. Power plant located on US 127 impacted.	20-30 acres Engineering C 2.85 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet. 2 River Bridge - tie into floodwall system required Power plant located on US 127 impacted.	10 - 20 acres         considerations         3.02         35         Requires North B Street         to be raised roughly 5 feet         at west terminus. Proximity         of US 127 intersection to         power plant reduces sight         distance. Bikepath along         the canal was reduced to a         10 foot width. Steep grade         on alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.	20 -30 acres 2.44 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet. 2 River Bridge - tie into floodwall system required RR bridge - Severe skew complicates design	50 - 60 acres         3.2         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Steep         grade approaching US 127         intersection for mthe west         due to elevation of railroad         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         3         No existing flood levy at         this location         3         No significant issues	45 - 55 acres 2.49 35 Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 3 River Bridge - Curve at the SE and of bridge, skewed alingment and location of dam complicates design.
Alternative Length (mi)         Design Speed (mph)         Roadway Design Issues         Roadway Design Issues         Existing Flood Levy Design Issues         Number of New Structures Requiring Long-Term Maintenance         Structural Design Issues         Major Utility Relocations and/or Issues         Anticipated Alternative Travel Time	3.43 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. 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This will require raising the west terminus roughly 5 feet. 2 River Bridge - tie into floodwall system required Power plant located on US	10 - 20 acres considerations 3.02 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet. 2 River Bridge - tie into floodwall system required RR bridge - Severe skew complicates design Power plant located on US	20 -30 acres 2.44 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. 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No existing flood levy at this location           3    No significant issues    Coordination with hydroelectric plant. Potential power substation	45 - 55 acres 2.49 35 Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 3 River Bridge - Curve at the SE end of bridge, skewed alignment and location of dam complicates design. Potential scour concerns. High voltage power-line tower relocation required. Coordination with hydroelectric plant. Potential power substaion
Alternative Length (mi)         Design Speed (mph)         Roadway Design Issues         Roadway Design Issues         Existing Flood Levy Design Issues         Number of New Structures Requiring Long-Term Maintenance         Structural Design Issues         Major Utility Relocations and/or Issues         Anticipated Alternative Travel Time (MM:SS)         Anticipated High Street (SR 129)	3.43         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Fill         required in floodplain.         Proximity of US 127         intersection to power plant         reduces sight distance.         Bikepath along the canal         was reduced to a 10 for         width. Steep grade on         alignment near Humane         Society and requires         society and requires         society and requires         sciety and requires         society and requires         2         2         No significant i	3.61         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Fill         required in floodplain.         Proximity of US 127         intersection to power plant         reduces sight distance.         Bikepath along the canal         was reduced to a 10 foot         width. Steep grade on         alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         2         RR bridge - Severe skew         complicates design         Electric Transmission Line         relocations required at NW         Washington Blvd. Power         plant located on US 127         impacted.         7:35	3.02 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. No existing flood levy at this location 2 RR bridge - Severe skew complicates design Electric Transmission Line relocations required at NW Washington Blvd. Power plant located on US 127 impacted. Traffic/Maintenance of 6:26 AM Peak-Hour - 00:28	20-30 acres Engineering C 2.85 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.  Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet. 2 River Bridge - tie into floodwall system required Power plant located on US 127 impacted. Traffic Considerations 6:48 AM Peak-Hour - 00:07	10 - 20 acres considerations 3.02 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. 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This will require raising the west terminus roughly 5 feet. 2 River Bridge - tie into floodwall system required RR bridge - Severe skew complicates design Power plant located on US 127 impacted. 5:48 AM Peak-Hour - 00:18	50 - 60 acres         3.2         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Steep         grade approaching US 127         intersection for me west         due to elevation of railroad         crossing. Steep grade on         alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         3         No existing flood levy at         this location         3         Coordination with         hydroelectric plant.         Potential power substaion         impacts at US 127.	45 - 55 acres 2.49 35 Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 3 River Bridge - Curve at the SE end of bridge, skewed alignment and location of dam complicates design. Potential scour concerns. High voltage power-line tower relocation required. Coordination with hydroelectric plant. Potential power substaion impacts at US 127.
Alternative Length (mi)         Design Speed (mph)         Roadway Design Issues         Roadway Design Issues         Existing Flood Levy Design Issues         Number of New Structures Requiring Long-Term Maintenance         Structural Design Issues         Major Utility Relocations and/or Issues         Anticipated Alternative Travel Time (MM:SS)         Anticipated High Street (SR 129) Travel Time Savings (MM:SS)         Anticipated % Reduction in High Street	3.43         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Fill         required in floodplain.         Proximity of US 127         intersection to power plant         reduces sight distance.         Bikepath along the canal         was reduced to a 10 foot         width. Steep grade on         alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         2         2         No significant issues         electric Transmission Line         relocations required at NW         Washington Blvd. Power         plant located on US 127         impacted.         2         AM Peak-Hour - 00:00         PM Peak-Hour - 00:00         AM Peak-Hour - 00:00	3.61         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Fill         required in floodplain.         Proximity of US 127         intersection to power plant         reduces sight distance.         Bikepath along the canal         was reduced to a 10 foot         width. Steep grade on         alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         2         RR bridge - Severe skew         complicates design         electric Transmission Line         relocations required at NW         Washington Bivd. Power         plant Ledd or US 127         impacted.         7:35         AM Peak-Hour - 00:00         AM Peak-Hour - 0%	3.02 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. 2 RR bridge - Severe skew complicates design Electric Transmission Line relocations required at NW Washington Blvd. Power plant located on US 127 impacted. Traffic/Maintenance of 6:26 AM Peak-Hour - 00:28 PM Peak-Hour - 00:31 AM Peak-Hour - 11%	20-30 acres Engineering C 2.85 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. Trais will require raising the west terminus roughly 5 feet. 2 River Bridge - tie into floodwall system required Power plant located on US 127 impacted. Traffic Considerations 6:48 AM Peak-Hour - 00:07 PM Peak-Hour - 00:13 AM Peak-Hour - 1%	10 - 20 acres considerations 3.02 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. 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AM Peak-Hour - 00:24         PM Peak-Hour - 00:22         AM Peak-Hour - 8%	45 - 55 acres 2.49 35 Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet. 3 River Bridge - Curve at the SE and of bridge, skewed aligngment and location of dam complicates design. Potential scour concerns. High voltage power-line tower relocation required. Coordination with hydroelectric plant. Potential power substaion impacts at US 127. AM Peak-Hour - 00:28 PM Peak-Hour - 00:31 AM Peak-Hour - 11%
Alternative Length (mi)         Design Speed (mph)         Roadway Design Issues         Roadway Design Issues         Existing Flood Levy Design Issues         Number of New Structures Requiring Long-Term Maintenance         Structural Design Issues         Major Utility Relocations and/or Issues         Anticipated Alternative Travel Time (MM:SS)         Anticipated High Street (SR 129) Travel Time Savings (MM:SS)	3.43 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. No existing flood levy at this location 2 Relectric Transmission Line relocations required at NW Washington Blvd. Power plant located on US 127 impacted. 7:00 AM Peak-Hour - 00:00 PM Peak-Hour - 00:00	3.61         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Fill         required in floodplain.         Proximity of US 127         intersection to power plant         reduces sight distance.         Bikepath along the canal         was reduced to a 10 foot         width. Steep grade on         alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         2         RR bridge - Severe skew         complicates design         Electric Transmission Line         relections required at NW         Washington Blvd. Power         plant located on US 127         impacted.         7:35         AM Peak-Hour - 00:00	3.02 35 Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. 2 RR bridge - Severe skew complicates design Electric Transmission Line relocations required at NW Washington Blvd. Power plant located on US 127 impacted. Traffic/Maintenance of 6:26 AM Peak-Hour - 00:28 PM Peak-Hour - 00:31	20-30 acres Engineering C 2.85 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system vill require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet. 2 River Bridge - tie into floodwall system required Power plant located on US 127 impacted. Traffic Considerations 6:48 AM Peak-Hour - 00:13 AM Peak-Hour - 1% PM Peak-Hour - 2% Complicated construction Staging at North B Street. North B Street would be required.	10 - 20 acres         considerations         3.02         35         Requires North B Street         to be raised roughly 5 feet         at west terminus. Proximity         of US 127 intersection to         power plant reduces sight         taisance. Bikepath along         the canal was reduced to a         10 foot width. Steep grade         on alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         Proximity of North B Street         to the existing levy system         will require the profile to be         elevated to avoid the levy.         This will require raising the         west terminus roughly 5         feet.         2         River Bridge - tie into         floodwall system required         RR bridge - Severe skew         complicates design         Oright Pack-Hour - 00:03         PM Peak-Hour - 00:03         PM Peak-Hour - 00:03         PM Peak-Hour - 0%         PM Peak-Hour - 0%         PM Peak-Hour - 0%         PM Peak-Hour - 0%         PM Peak-Hour - 0% <td>20 -30 acres 2.44 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. 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Potential power substaion         impacts at US 127.         6:53         AM Peak-Hour - 00:24         PM Peak-Hour - 00:24</td> <td>45 - 55 acres         2.49         35         Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall.         Intersection of Princeton Road is skewed.         The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet.         3         River Bridge - Curve at the SE end of bridge, skewed alingment and location of dam complicates design. Potential scour concerns.         High voltage power-line tower relocation required. Coordination with hydroelectric plant. Potential power substaion impacts at US 127.         5:50         AM Peak-Hour - 00:28 PM Peak-Hour - 00:21</td>	20 -30 acres 2.44 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. 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Alternative Length (mi)         Design Speed (mph)         Roadway Design Issues         Roadway Design Issues         Existing Flood Levy Design Issues         Number of New Structures Requiring Long-Term Maintenance         Structural Design Issues         Major Utility Relocations and/or Issues         Anticipated Alternative Travel Time (MM:SS)         Anticipated High Street (SR 129) Travel Time Savings (MM:SS)         Anticipated % Reduction in High Street (SR 129) Traffic	3.43         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Fill         required in floodplain.         Proximity of US 127         intersection to power plant         reduces sight distance.         Bikepath along the canal         was reduced to a 10 for         skewed.         Society and requires         Society and requires         scating flood levy at this location         this location         2         No significant issues         Pint located on US 127         impacted.         102         AM Peak-Hour - 00:00         PM Peak-Hour - 00:00         PM Peak-Hour - 0%         Construction of         roundabout at the         intensection of W Elkton         Rd and N B	3.61         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Fill         required in floodplain.         Proximity of US 127         intersection to power plant         reduces sight distance.         Bikepath along the canal         was reduced to a 10 foot         width. Steep grade on         alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed. <b>2</b> RR bridge - Severe skew         complicates design         complicates design         relocations required at NW         Washington Blvd. Power         plant located on US 127         impacted. <b>7:35</b> AM Peak-Hour - 00:00         AM Peak-Hour - 00:00         AM Peak-Hour - 00:00         PM Peak-Hour - 0%	3.02         35         Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.         No existing flood levy at this location         2         RR bridge - Severe skew complicates design         2         Electric Transmission Line relocations required at NW Washington Blvd. Power plant located on US 127 impacted.         Traffic/Maintenance of 6:26         AM Peak-Hour - 00:31         AM Peak-Hour - 11% PM Peak-Hour - 12%         Construction of roundabout at the intersection of W Elkton Rd and N B St will likely	20-30 acres Engineering C 2.85 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system vill require the profile to be elevated to avoid the levy. 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AM Peak-Hour - 00:24 PM Peak-Hour - 00:22         AM Peak-Hour - 00:24 PM Peak-Hour - 6%         PM Peak-Hour - 6%         Construction of roundabout at the intersection of W Elkton Rd and N B St will likely	45 - 55 acres 2.49 35 Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to leas than 2 feet. 3 River Bridge - Curve at the SE end of bridge, skewed aligngent and location of dam complicates design. Potential scour concerns. High voltage power-line tower relocation required. Coordination with hydroelectric plant. Potential power substaion impacts at US 127. 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Alternative Length (mi)         Design Speed (mph)         Roadway Design Issues         Roadway Design Issues         Existing Flood Levy Design Issues         Number of New Structures Requiring Long-Term Maintenance         Structural Design Issues         Major Utility Relocations and/or Issues         Anticipated Alternative Travel Time (MM:SS)         Anticipated High Street (SR 129) Travel Time Savings (MM:SS)         Anticipated W Reduction in High Street (SR 129) Traffic         Maintenance of Traffic Concerns	3.43         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Fill         required in floodplain.         Proximity of US 127         intersection to power plant         reduces sight distance.         Bikepath along the canal         was reduced to a 10 foot         width. Steep grade on         alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         2         2         No significant issues         electric Transmission Line         relocations required at NW         Washington Blvd. Power         plant located on US 127         impacted.         1000         PM Peak-Hour - 00:00         PM Peak-Hour - 0%         PM Peakeri Hour = 0 <t< td=""><td>3.61         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Fill         required in floodplain.         Proximity of US 127         intersection to power plant         reduces sight distance.         Bikepath along the canal         was reduced to a 10 foot         width. Steep grade on         alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         2         RR bridge - Severe skew         complicates design         celectric Transmission Line         relocations required at NW         Washington Blvd. Power         plant located on US 127         impacted.         102         7:35         AM Peak-Hour - 00:00         PM Peak-Hour - 0%         PM Peak-Hour - 0%</td><td>3.02         35         Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.         No existing flood levy at this location         2         RR bridge - Severe skew complicates design         2         Electric Transmission Line relocations required at NW Washington Blvd. Power plant located on US 127 impacted.         Traffic/Maintenance of 6:26         AM Peak-Hour - 00:28 PM Peak-Hour - 01:28         PM Peak-Hour - 11% PM Peak-Hour - 12%         Construction of roundabout at the intersection of W Elkton Rd and N B St will likely require a closure.</td><td>20-30 acres Engineering C 2.85 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. 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Steep         grade approaching US 127         intersection from the west         due to elevation of railroad         crossing. Steep grade on         alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         3         No existing flood levy at         this location         3         No significant issues         Coordination with         hydroelectric plant.         Potential power substaion         impacts at US 127.         AM Peak-Hour - 00:22         AM Peak-Hour - 00:24         PM Peak-Hour - 8%         PM Peak-Hour - 6%         Construction of         roundabout at the         intersection of W Elkton         Rd and N B St will likely         require a closure.</td><td>45 - 55 acres 2.49 35 Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall. 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Bikepath along the canal         was reduced to a 10 foot         width. Steep grade on         alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         2         RR bridge - Severe skew         complicates design         celectric Transmission Line         relocations required at NW         Washington Blvd. Power         plant located on US 127         impacted.         102         7:35         AM Peak-Hour - 00:00         PM Peak-Hour - 0%	3.02         35         Proximity of Elkton Road / NW Washington Blvd intersection to roundabout and steep existing grades near roundabout. Fill required in floodplain. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.         No existing flood levy at this location         2         RR bridge - Severe skew complicates design         2         Electric Transmission Line relocations required at NW Washington Blvd. Power plant located on US 127 impacted.         Traffic/Maintenance of 6:26         AM Peak-Hour - 00:28 PM Peak-Hour - 01:28         PM Peak-Hour - 11% PM Peak-Hour - 12%         Construction of roundabout at the intersection of W Elkton Rd and N B St will likely require a closure.	20-30 acres Engineering C 2.85 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. 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Steep         grade approaching US 127         intersection from the west         due to elevation of railroad         crossing. Steep grade on         alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         3         No existing flood levy at         this location         3         No significant issues         Coordination with         hydroelectric plant.         Potential power substaion         impacts at US 127.         AM Peak-Hour - 00:22         AM Peak-Hour - 00:24         PM Peak-Hour - 8%         PM Peak-Hour - 6%         Construction of         roundabout at the         intersection of W Elkton         Rd and N B St will likely         require a closure.	45 - 55 acres 2.49 35 Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. 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Alternative Length (mi)         Design Speed (mph)         Roadway Design Issues         Roadway Design Issues         Existing Flood Levy Design Issues         Number of New Structures Requiring Long-Term Maintenance         Structural Design Issues         Major Utility Relocations and/or Issues         Anticipated Alternative Travel Time (MM:SS)         Anticipated High Street (SR 129)         Travel Time Savings (MM:SS)         Anticipated % Reduction in High Street (SR 129)         Travel Time Savings (MM:SS)         Anticipated of Traffic Concerns         Maintenance of Traffic Concerns         Preliminary Right of Way Costs         Preliminary Design & Management	3.43         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Fill         required in floodplain.         Proximity of US 127         intersection to power plant         reduces sight distance.         Bikepath along the canal         was reduced to a 10 for         skewed.         Jone existing flood levy at this location         cl         2         No significant issues         Peak-tour sequired at NW         Washington Blvd. Power plant located on US 127 impacted.         impacted.         To:00         AM Peak-Hour - 00:00         PM Peak-Hour - 00:00         PM Peak-Hour - 0%         Construction of W Elkton Rd and N B St will likely require a closure to raise the profile. Complex detour would be required.         S65 - \$75 million         \$56 - \$75 million         \$50 - \$10 million	3.61         35         Proximity of Elkton Road /         NW Washington Blvd         Intersection to roundabout         and steep existing grades         near roundabout. Fill         required in floodplain.         Proximity of US 127         intersection to power plant         reduces sight distance.         Bikepath along the canal         was reduced to a 10 for         was reduced to a 10 for         was reduced to a 10 for         Society and requires         retaining wall. Intersection         of Princeton Road is         society and requires         retaining wall.         retaining wall.         RR bridge - Severe skew         complicates design         felectric Transmission Line         relocations required at NW         Washington Blvd. Power         plant located on US 127         impacted.         Tr:35         AM Peak-Hour - 00:00         PM Peak-Hour - 0%         PM Peak-Hour - 0%         PM Peak-Hour - 0%         PM Peak-Hour - 0%         S75 - \$85 million         \$75 - \$85 million         \$14 - \$19 million	3.02         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Fill         required in floodplain.         Proximity of US 127         intersection to power plant         reduces sight distance.         Width of bikepath on         Heaton Street reduced to 8         foot width at cemetery.         Steep grade on alignment         near Humane Society and         requires retaining wall.         Intersection of Princeton         RR bridge - Severe skew         complicates design         Electric Transmission Line         relocations required at NW         Washington Blvd. Power         plant located on US 127         impacted.         Traffic/Maintenance of         6:26         AM Peak-Hour - 00:28         PM Peak-Hour - 102%         Construction of         require a closure.         \$75 - \$85 million         \$17 - \$22 million         \$13 - \$18 million	20 -30 acres         Engineering C         2.85         35         Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.         Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet.         2         River Bridge - tie into floodwall system required         Power plant located on US 127 impacted.         127 impacted.         Traffic Considerations 6:48         AM Peak-Hour - 00:07 PM Peak-Hour - 00:07 PM Peak-Hour - 00:13 AM Peak-Hour - 1% PM Peak-Hour - 2%         Complicated construction staging at North B Street a closure to raise the profile. Complex detour would be required.         Vereliminary C \$60 - \$70 million         \$5 - \$10 million         \$11 - \$16 million	10 - 20 acres         considerations         3.02         35         Requires North B Street         to be raised roughly 5 feet         at west terminus. Proximity         of US 127 intersection to         power plant reduces sight         10 foot width. Steep grade         on alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         skewed.         Proximity of North B Street         to the existing levy system         will require the profile to be         elevated to avoid the levy.         This will require raising the         west terminus roughly 5         feet.         2         River Bridge - tie into         floodwall system required         RR bridge - Severe skew         complicates design         7:39         AM Peak-Hour - 00:00         AM Peak-Hour - 00:01         PM Peak-Hour - 00:02         PM Peak-Hour - 0%         PM Peak-Hour - 0%         Complicated construction         staging at North B Street         \$70 - \$80 million         \$12 -	20 -30 acres 2.44 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed. Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet. 2 River Bridge - tie into floodwall system required R bridge - Severe skew complicates design 5:48 AM Peak-Hour - 00:18 PM Peak-Hour - 00:20 AM Peak-Hour - 5% PM Peak-Hour - 5% PM Peak-Hour - 5% Complicated construction staging at North B Street North B Street may required \$90 - \$100 million \$12 - \$12 million	30 - 60 acres         3.2         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Steep         grade approaching US 127         intersection for mthe west         due to elevation of railroad         crossing. Steep grade on         alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         3         O         3         No significant issues         Coordination with         hydroelectric plant.         Potential power substaion         impacts at US 127.         AM Peak-Hour - 00:24         PM Peak-Hour - 00:24         PM Peak-Hour - 6%         Construction of         roundabout at the         intersection of W Elkton         Rd and N ES twill likely         require a closure.         \$90 - \$100 million         \$10 - \$20 million         \$16 - \$21 million	45 - 55 acres         2.49         35         Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.         The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet.         3         River Bridge - Curve at the SE end of bridge, skewed alingment and location of dam complicates design. Potential scour concerns.         Ventral Street. This will hydroelectric plant. Potential power substaion impacts at US 127.         5:50         AM Peak-Hour - 00:38 PM Peak-Hour - 10:30 AM Peak-Hour - 11% PM Peak-Hour - 12%         Construction of roundabouts on North B Street will likely require a closure.         \$115 - \$125 million         \$10 - \$20 million
Atternative Length (mi) Design Speed (mph) Roadway Design Issues Existing Flood Levy Design Issues Existing Flood Levy Design Issues Number of New Structures Requiring Long-Term Maintenance Structural Design Issues Structural Design Issues Major Utility Relocations and/or Issues Anticipated Alternative Travel Time (MM:SS) Anticipated High Street (SR 129) Travel Time Savings (MM:SS) Anticipated High Street (SR 129) Travel Time Savings (MM:SS) Anticipated % Reduction in High Street (SR 129) Traffic Maintenance of Traffic Concerns Preliminary Construction Costs Preliminary Right of Way Costs	3.43         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Fill         required in floodplain.         Proximity of US 127         intersection to power plant         reduces sight distance.         Bikepath along the canal         was reduced to a 10 for         skewed.         2         2         2         2         2         No significant issues         relocations required at NW         Washington Blvd. Power         plant located on US 127         impacted.         1000000         AM Peak-Hour - 00:00         PM Peak-Hour - 00:00         PM Peak-Hour - 00:00         PM Peak-Hour - 00:00         Construction of         roundabout at the         intersection of W Elkton         require a closure to US 127         may require a closure to U	3.61         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout         and steep existing grades         near roundabout. Fill         required in floodplain.         Proximity of US 127         intersection to power plant         reduces sight distance.         Bikepath along the canal         was reduced to a 10 for         width. Steep grade on         alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         scociety and requires         retaining wall. Intersection         of Princeton Road is         scociety and requires         complicates design         complicates design         lettic Transmission Line         relocations required at NW         Washington Blvd. Power         plant located on US 127         impacted.         O         AM Peak-Hour - 00:00         PM Peak-Hour - 0%         PM Peak-Hour - 0%         PM Peak-Hour - 0%         S75 - \$85 million         \$5 - \$10 million	3.02         35         Proximity of Elkton Road /         NW Washington Blvd         intersection to roundabout and steep existing grades         near roundabout. Fill         required in floodplain.         Proximity of US 127         intersection to power plant         reduces sight distance.         Width of bikepath on         Heaton Street reduced to 8         foot width at cemetery.         Steep grade on alignment         near fumane Society and         requires retaining wall.         Intersection of Princeton         RR bridge - Severe skew         complicates design         2         RR bridge - Severe skew         complicates design         relocations required at NW         Washington Blvd. Power         plant located on US 127         impacted.         Traffic/Maintenance of         6:26         AM Peak-Hour - 00:28         PM Peak-Hour - 012%         PM Peak-Hour - 11%         PM Peak-Hour - 11%         PM Peak-Hour - 12%         Construction of         roundabout at the         intersection of W Elkton         Rd and N B St will likely </td <td>20-30 acres Engineering C 2.85 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. 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Bikepath along the canal was reduced to a 10 foot width. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.         Proximity of North B Street to the existing levy system will require the profile to be elevated to avoid the levy. This will require raising the west terminus roughly 5 feet.         2         River Bridge - tie into floodwall system required RR bridge - Severe skew complicates design         7:39         AM Peak-Hour - 00:03 PM Peak-Hour - 00:03 PM Peak-Hour - 00:04 AM Peak-Hour - 0%         Complicated construction staging at North B Street a closure to raise the profile. Complex detour would be required.         ost Estimates         \$70 - \$80 million</td> <td>20 -30 acres 2.44 35 Requires North B Street to be raised roughly 5 feet at west terminus. Proximity of US 127 intersection to power plant reduces sight distance. Width of bikepath on Heaton Street reduced to 8 foot width at cemetery. 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Steep grade on         alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         3         O         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         3         O         3         O         Significant issues         Coordination with         hydroelectric plant.         Potential power substaion         impacts at US 127.         AM Peak-Hour - 00:22         AM Peak-Hour - 00:24         PM Peak-Hour - 00:24         PM Peak-Hour - 6%         Construction of         roundabout at the         intersection of W Elkton         Rd an</td> <td>45 - 55 acres         2.49         35         Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. Steep grade on alignment near Humane Society and requires retaining wall. Intersection of Princeton Road is skewed.         The offset of North B Street to the existing levy system will allow a smooth transition of the proposed alignment over the levy to North B Street. This will limit raising at the west terminus to less than 2 feet.         3         River Bridge - Curve at the SE end of bridge, skewed alingment and location of dam complicates design. Potential scour concerns.         Ventral Street. This will limit raising at the west terminus to less than 2 feet.         3         River Bridge - Curve at the SE end of bridge, skewed alingment and location of dam complicates design. Potential scour concerns.         Feat.Holt action of comdination with hydroelectric plant. Potential power substaion impacts at US 127.         Construction of roundabouts on North B Street will likely require a closure.         \$115 - \$125 million         \$10 - \$20 million</td>	20-30 acres Engineering C 2.85 35 Requires North B Street to be raised roughly 5 feet at west terminus. 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Steep         grade approaching US 127         intersection for mthe west         due to elevation of railroad         crossing. Steep grade on         alignment near Humane         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         3         O         Society and requires         retaining wall. Intersection         of Princeton Road is         skewed.         3         O         3         O         Significant issues         Coordination with         hydroelectric plant.         Potential power substaion         impacts at US 127.         AM Peak-Hour - 00:22         AM Peak-Hour - 00:24         PM Peak-Hour - 00:24         PM Peak-Hour - 6%         Construction of         roundabout at the         intersection of W Elkton         Rd an	45 - 55 acres         2.49         35         Steep grade approaching US 127 intersection from the west due to elevation of railroad crossing. 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