DOCUMENT E – TECHNICAL COMMITTEE INITIAL INPUT ON CORPS MEASURES

<u>Note</u>: The following criteria are the ones that were used by the Technical Committees when considering and evaluating the measures. They are included here because the Technical Committees often referenced which criterion they were considering when evaluating a specific measure. When the Technical Committees evaluated the measures, they used a color coding scheme to indicate their level of desire to see a particular measure advance.

Remember that the purpose of this effort is for the Advisory Committee to provide an initial indication of what Skagit GI measures should be further considered. This effort is not intended to be a detailed, final prioritization of measures.

Dike and Drainage District Technical Committee Screening Criteria

First Tier – Fatal Flaw criteria

- 1. Does the project maintain or improve Public Safety and critical infrastructure protection when compared to existing flood risk?
 - a. Reduce the potential for levee failures?
 - b. Increase conveyance efficiency of the existing levee system?
 - c. Reduce risk of catastrophic failure due to inadequate interior drainage?
- 2. Can the project be implemented without increasing the flood risk up and downstream of the project area? If no, can the increased risk be mitigated?
- 3. Can the project maintenance and operations be sustained locally?
- 4. "Will the project reduce risk to soils and drainage in agricultural resource lands."

Key point: Projects need to be designed from bay-front up to address interior drainage and downstream impacts.

Land Use Technical Committee Criteria Recommendations

LUTC recommended the original Option #2 from Document C (AC Meeting 12/15/08)

OPTION 2: THEMES FROM THE TECHNICAL COMMITTEES

- 1. Critical infrastructure protection
- 2. Other existing infrastructure protection
- 3. Minimal known land use conflicts
- 4. Minimal known regulatory conflicts
- 5. Could be designed to benefit multiple objectives
- 6. Degree of environmental impact/mitigation and could it be designed for ecoysystem benefits
- 7. Timeliness of implementation
- 8. Cost
 - Capital
 - Land acquisition
 - Maintenance
 - Cost-benefit
- 9. Perceived community acceptance
 - Shared burden
 - Impacts to privately-owned land

Environmental Technical Committee "Fatal Flaw" Screening results 1/26/2009

Criteria Applied:

- 1. Does the project demonstrate a significant net gain in natural riverine processes? In particular, does the project:
 - a. Improve natural flood water conveyance?; and
 - b. Preserve or improve channel migration, and floodplain processes and reduce bank hardening?; and
 - c. Improve / restore riparian processes?
- 2. Does the project improve or preserve estuarine, near shore and marine processes, habitats, and resources?
- 3. Does the project demonstrate improvements to flood related Water Quality and contamination problems?
- 4. Can the project work in synergy with other planned actions i.e. up and downstream effects need to be evaluated and addressed?

Key point: No new bank armoring; existing bank armoring needs to be removed with minor excavation as needed to install effective fish habitat features.

DD = Drainage District Technical Committee; ENV = Environmental Technical Committee; LU = Land Use Technical Committee

	lip 1 WHOLE BASIN EFFECTS -Storage (Range of Possible Additional Storage for Each Measure)			
Commit tee	Comments (Focused on Criteria)	Missing Info.	Linkage with Other Measures	
Measure	e #1—Upper Baker			
DD	Green – Meets all criteria and is consistent with Baker FERC Settlement Agreement	Need to continue Corps analysis and modify WCM	Stand alone and improves All	
ENV	Yellow – must be consistent with Baker Settlement Agreement and Skagit GI completed.	Skagit GI Analysis	Yes All	
LU	Green	Need PSE input	#2	
	Maximize storage and modify operations to reduce flood flows (Measure #1C)	What about increasing flood storage capacity by raising the dam?		
AC				
Measure	e #2—Lower Baker			
DD	Green – Same as # 1, meets all criteria and is consistent with Baker FERC Settlement Agreement. Continues to demonstrate significant benefits during recent events. Dike Districts request that the Interim Protection Plan remain in effect until Corps Skagit GI study is completed.	Need to continue Corps analysis and modify WCM	Stand alone and improves All	
ENV	Yellow – Same as # 1, must be consistent with Baker Settlement Agreement and Skagit GI completed.	Skagit GI Analysis	Yes All	
LU	Green	Need PSE input	#1	
	Maximize storage and modify operations to reduce flood flows (Measure #2C)			
AC				
Measur	e #3—Ross			
DD	Green – Meets all criteria and could be improved with operational changes.	Need Corps analysis to modify WCM	Stand alone and improves All	
ENV	Red as proposed due to likely high Chinook and pink salmon impacts; Yellow – if consistent with Skagit Settlement Agreement and Skagit GI completed.	Skagit GI Analysis	Yes All	
LU	Green Maximize storage and modify operations to reduce flood flows	Need Seattle City Light input		
AC				

	Flip 2 WHOLE BASIN EFFECTS - Nonstructural			
Commit tee	Comments (Focused on Criteria)	Missing Info.	Linkage with Other Measures	
Measure	= #25— Nonstructural (Evacuation, Flood Warning, Flo	odproofing)		
DD	Green – No downside. Support good land use decisions.	Needs to be coordinated with DEM	Stand alone and improves All	
ENV	Green – support concept. Need to review existing and potential land use regulations; SMA		Yes	
LU	Green			
AC				
Measure	e #27— Debris Management			
DD	Green – Ongoing maintenance needs to be coordinated better.	Programmatic Permits	Stand alone	
ENV	Red - If LWD is removed from system.		Yes	
	Green - Need debris management program to keep LWD passing bridge structures			
LU	Green			
AC	-		_	
Measure	#23— Estuarine Restoration			
DD	Yellow – Only if project has positive impact on flood control and improves interior drainage and outlet facilities. Example: New Stanwood outlet WCS at bayfront.		# 38	
ENV	Green – What are the projects?	Need location and	Yes	
	Design should meet Salmon Recovery goals.	design		
LU	Green			
AC				

	Flip 3		
	UPPER BASIN		
Commit tee	Comments (Focused on Criteria)	Missing Info.	Linkage with Other Measures
Measure	e #22— Cockreham Island Levee Removal	-	
DD	Red/Yellow- Impacts farm land with minimal flood control benefits. Potential restoration project	Flood control benefits	
ENV	Yellow – Concerned with potential loss of main stem habitat	Need design info.	24 & 24A
LU	Yellow	Impacts unknown	
AC			
Measure	e #24— Riparian Restoration		
DD	Yellow- Needs to be combined with flood control projects.	Impact to critical infrastructure	Must be linked to other measures
ENV	Green – include 24A	Design – see # 23	Yes All
LU	Green	List could be expanded.	OK to have stand alone flood projects without restoration and vice versa
AC		-	
Measure	#26— Hamilton Relocation		
DD	<mark>Green</mark> – Meets criteria	Funding Sources	
ENV	Green – Incorporate wetland and slough habitats where		Yes
	possible		All
LU	Green		
AC			

	Flip 4 MIDDLE/LOWER BASIN - Smal	II-Scale Storage	
Commit tee	Comments (Focused on Criteria)	Missing Info.	Linkage with Other Measures
Measure			-
DD	Yellow - As presented. Project has support of Dike Districts and Cities.	Need design and elevation of weirs. Need to evaluate up and down stream impacts	Improved timing benefits other measures
ENV	Red – As presented. No new hardened structures allowed along river.	Acceptable design for restoration	24 & 24A
LU	Green	Provided design is modified and environmental concerns	
		addressed	
AC			
Measure	#5— Hart's Slough		
DD	Yellow – See # 4	Need design and elevation	
ENV	Red – As presented. Same as # 4, no new hardened structures allowed along river.	Acceptable design for restoration	24 & 24A
LU	Yellow	Needs additional evaluation	
AC			

	Flip 5 MIDDLE/LOWER BASIN - I	evees	
Commit tee	Comments (Focused on Criteria)	Missing Info.	Linkage with Other Measures
Measure	e #9— Overtopping Levees	-	-
DD	Red – As presented if existing level of protection is reduced for adjacent areas. Yellow - Where suitable when combined with improved interior drainage	Locations	# 38
ENV	Yellow- 1) Where does water go? 2) Where are overtopping levees located in system?	Fish loss and up and downstream effects	23, 24 & 24A
LU	Green Overtopping happens! Need to direct flow to reduce damages.	Flow paths and easements needed	
AC			
Measure	#11— Raise All Levees		
DD	Red – No 100-year protection for rural areas. Yellow – if less than 100-year protection for rural areas	Policy on level of protection	
ENV	Red – Doesn't meet criteria 1 -3, 4 is maybe.		
LU	Red		
AC		-	_
Measure	#12— Setback Levees with Excavation		
DD	Red – Loss of farm land. Yellow- Need to mitigate for loss of farmland and or if ag is allowed in set back area, need to compensate for inability to grow crops which must overwinter. Excavation can't increase risk to levees.	Need design, locations and elevation	
ENV	Yellow – Existing levee / rock armoring needs to be removed with minor excavation as needed to install effective fish habitat features. Needs to restore riverine processes.	Need location and design	23, 24 & 24A
LU	Yellow Excavate where appropriate	Needs additional analysis. Incorporate habitat restoration	
AC			
Measure	#13— Setback Levees Entire System		
DD	Red – Doesn't meet criteria 4 and critical infrastructure needs to be protected.	Cost	
ENV	Red – Prefer # 12, existing levee / rock armoring needs to be removed with minor excavation as needed to install effective fish habitat features. Needs to restore riverine processes.		
LU	Yellow Unrealistic due to costs		

AC

	Flip 6 MIDDLE/LOWER BASIN -	Levees	
Commit tee	Comments (Focused on Criteria)	Missing Info.	Linkage with Other Measures
Measure	e #6a— Sterling Levee		-
DD	Green – Support from DD to combine 6a and 6b. Over- topping weir at Hwy 20. Levee should be realigned to south of Lafayette road. Need to establish use frequency and combined with interior drainage and bay front outfall project.	Flows and frequency of use, topo and overland flow pathway identified	# 38
ENV	Red – As presented. Same as # 4, no new hardened structures allowed along river. Same as # 11, doesn't meet criteria 1 -3, 4 is maybe.		
LU	Red		
AC			
Measure	e #6b— Sterling Levee		
DD	Green - Same as # 6a.	Same as 6a	# 38
ENV	Green – Preferred alignment for protection of Hwy 20.	Trigger flows	9, 24 & 24A?
LU	Yellow More study needed.	Realign per proposal from City of Burlington (see attached)	
AC			

	Flip 7 MIDDLE/LOWER BASIN - L	evees	
Commit tee	Comments (Focused on Criteria)	Missing Info.	Linkage with Other Measures
Measure	e #7— Levee Setback below 3-Bridge (Main stem, S. & N	N. Fork)	-
DD	Red – Same as # 13, doesn't meet criteria 4 and critical infrastructure needs to be protected. Yellow – Specific areas could be identified. Need to address loss of farm land and up and downstream impacts	Dike Districts will provide input on locations	
ENV	Yellow - Same as # 13, existing levee / rock armoring needs to be removed with minor excavation as needed to install effective fish habitat features. Needs to restore riverine processes. Preferred over # 10	Design, hydraulic and sediment transport impacts	23, 24 & 24A
LU	Yellow		
	Needs additional analysis regarding levee heights		
AC			
Measure	e #8— Levee Setback 3-Bridge		
DD	Yellow – Need to address any identified impacts up and downstream.	Impact analysis	Most
ENV	<u>Red</u> – <u>Criteria 4.</u> <u>Yellow</u> – Only when combined with other measures. Same as # 13, existing levee / rock armoring needs to be removed with minor excavation as needed to install effective fish habitat features. Needs to restore riverine processes.	Design, hydraulic and sediment transport impacts	<u>Must be linked</u> to downstream <u>measures.</u>
LU	Yellow		#7 and #10
	Downstream impacts need to be addressed. Should be noted that this project is phased. 1^{st} phase is levee setbacks. 2^{nd} phase will be modifications to bridge(s)		
AC	¥¥¥¥¥¥		
Measure	#10— Levee Setback below 3-Bridge (Main stem & N.	Fork)	
DD	Red – Same as # 13, doesn't meet criteria 4 and critical infrastructure needs to be protected. Yellow – Specific areas could be identified. Need to address loss of farm land and up and downstream impacts		
ENV	Red – # 7 is preferred because functions are restored in <u>S. Fork as well.</u> Yellow - Same as # 13, existing levee / rock armoring needs to be removed with minor excavation as needed to install effective fish habitat features. Needs to restore riverine processes.	Design, hydraulic and sediment transport impacts	23, 24 & 24A
LU	Yellow		
	Needs additional analysis regarding levee heights		
AC			·

	Flip 8 MIDDLE/LOWER BASIN - L	evees	
Commit tee	Comments (Focused on Criteria)	Missing Info.	Linkage with Other Measures
Measure	#14— Improve Left Bank Levees		
DD	Red - As presented. Doesn't meet criteria. Improving all levees along one side will cause increased hazard on the opposite side. Yellow - if combined with appropriate measures	Location and elevation	
ENV	Red – Same as # 11, doesn't meet criteria 1 -3, 4 is maybe.		
LU	Yellow		
AC			
Measure	#15— Improve Right Bank Levees		
DD	Red As presented. Same as # 14, doesn't meet criteria. Improving all levees along one side will cause increased hazard on the opposite side. Yellow - if combined with appropriate measures	Location and elevation	
ENV	Red – Same as # 11, doesn't meet criteria 1 -3, 4 is maybe.		
LU	Yellow		
AC			
Measure	#16— Mount Vernon Floodwall		
DD	Green – Has support of Dike and Drainage District Technical Committee		38
ENV	Red - As presented. Same as # 11, doesn't meet criteria <u>1 -3, 4 is maybe.</u> Yellow - Same as # 13, existing levee / rock armoring needs to be removed with minor excavation as needed to install effective fish habitat features. Needs to restore riverine processes.	Need MV design	24 & 24A
LU	Green See new design and levee alignment information from Mount Vernon	Need to incorporate City of Mount Vernon info	
AC			

	Flip 9 MIDDLE/LOWER BASIN - E	sypass	
Commit tee	Comments (Focused on Criteria)	Missing Info.	Linkage with Other Measures
Measure	e #17— Swinomish Bypass	-	-
DD	Yellow – Depends on design. Needs to protect impacted infrastructure. Support for farmed floodway concept.		
ENV	Yellow – Acceptable range of flows (when initiated and how much); design needs to include "significant" restoration	Biggest issues are: fish stocks and sedimentation	Yes
LU	Yellow Bypasses in general were deemed too expensive for the benefits derived		Perhaps necessary if levees are setback upstream
AC			
Measure	#18— Fir Island Bypass		
DD	Red – As presented. Support for increasing conveyance in both forks.		
ENV	Yellow – Same as # 17, acceptable range of flows (when initiated and how much); design needs to include "significant" restoration	Biggest issues are: year round flows	Yes
LU	Yellow		
AC			
Measure	#19— Samish Bypass		
DD	Red – As presented. Yellow - If frequency is greater than 75 year event and low velocity flows. Design needs to focus on existing low areas and include interior drainage and outfall structure.	Flow, velocity, use frequency, flow pathway	Lower basin measures
ENV	Yellow – Same as # 17, acceptable range of flows (when initiated and how much); design needs to include "significant" restoration	Biggest issues are: fish stocks and sedimentation	Yes
LU	Red		
AC			
Measure	#20— Mount Vernon Bypass		
DD	Red – As presented.		
ENV	Yellow – Same as #18, acceptable range of flows (when initiated and how much); design needs to include "significant" restoration	Year round flow impact to low flows	Yes
LU	Red		
AC			

	Flip 10 SPOT ISSUES Ring Dikes		
Commit tee	Comments (Focused on Criteria)	Missing Info.	Linkage with Other Measures
Measure	#28— Sedro-Woolley Ring Dike		
DD	Red – No Picture.	All	
ENV	Red – Same as # 4, no new hardened structures allowed along river. Design should include Hart Slough restoration	All	24 & 24A
LU	Red		
AC			
Measure	##29— Sedro-Woolley WWTP Ring Dike	-	-
DD	<mark>Green</mark> – Get started.		
ENV	Green – design needs to address any habitat issues		24 & 24A
LU	Green		
AC			
Measure	#30— Sedro-Woolley Hospital Ring Dike	-	-
DD	Green – Get started. Must have plan in place to evacuate patients. Could increase risk if levee breaks on "pressure" side.		
ENV	Green – same as # 29, design needs to address any habitat issues		24A
LU	Yellow		
AC			
Measure	#31— Burlington Ring Dike		
DD	Red – As presented. Yellow – Three sided and combined with interior drainage. Needs to address potential impacts	Design and evaluation of impacts	6a or 6b and 38
ENV	Red - As presented. Same as # 11, doesn't meet criteria <u>1 -3, 4 is maybe.</u> Yellow - Same as # 13, existing levee / rock armoring needs to be removed with minor excavation as needed to install effective fish habitat features. Needs to restore riverine processes including restoration of Gages Slough.	Need Burlington design	24 & 24A
LU	Red as described	City of Burlington	
	Green if redesigned per latest City of Burlington Proposal. Not a ring dike but a 100 year levee certification project. See attached exhibits	proposal	
AC			

	Flip 11		
	SPOT ISSUES Ring Dikes		
Commit tee	Comments (Focused on Criteria)	Missing Info.	Linkage with Other Measures
Measure	#32— North Mount Vernon Ring Dike		
DD	Red – As presented. Yellow – Only if critical infrastructure is protected and existing levees remain. Need to provide existing level of protection.		
ENV	Red - Same as # 11, doesn't meet criteria 1 -3, 4 is maybe. Yellow - Same as # 13, existing levee / rock armoring needs to be removed with minor excavation as needed to install effective fish habitat features. Needs to restore riverine processes.	Design	24 & 24A
LU	Yellow	Needs to be modified	
	w/modifications		
AC			
Measure	#33— West Mount Vernon Ring Dike		
DD	Red – As presented.		
ENV	Red - Same as # 11, doesn't meet criteria 1 -3, 4 is <u>maybe.</u> Yellow - Same as # 13, existing levee / rock armoring needs to be removed with minor excavation as needed to install effective fish habitat features. Needs to restore riverine processes and not preclude potential benefits of #20.	Design	24 & 24A
LU	Red		
AC			
Measure	e #34— East Mount Vernon Ring Dike		
DD	Green – Some concern about impact to DD #3 levees and other infrastructure. Provides localized benefits only. Concerned with potential expansion of Mount Vernon UGA.	Benefit and impacted areas	Yes
ENV	Red - Same as # 11, doesn't meet criteria 1 -3. Yellow - Same as # 13, existing levee / rock armoring needs to be removed with minor excavation as needed to install effective fish habitat features. Needs to restore riverine processes including restoration of Britt Slough.	Design	24 & 24A
LU	Yellow		
	w/modifications		
AC			

r			
	Flip 12 SPOT ISSUES Ring Dikes		
Commit tee	Comments (Focused on Criteria)	Missing Info.	Linkage with Other Measures
Measure	#35— La Conner Ring Dike		
DD	Green – Get started. Localized impacts and benefits.	Design	
ENV	Red - Same as # 11, doesn't meet criteria 1 -3. Yellow - Same as # 13, existing levee / rock armoring needs to be removed with minor excavation as needed to install effective fish habitat features. Needs to restore riverine processes including restoration of Sullivan Slough.	Need LaConner design	24 & 24A
LU	Green Project should described as "gap filler"		
AC			
Measure	#36— Clear Lake Ring Dike		
DD	Green – Localized impacts and benefits.		
ENV	Yellow – needs to include restoration of wetland and slough habitats		24 & 24A
LU	Yellow	Need more information	
AC			
Measure	#37— Anacortes WTP Ring Dike		
DD	Green – Get started. Anacortes plant upgrade design includes flood protection for facility.		
ENV	Green	Need Anacortes design	24 & 24A
LU	Green Levee upgrade to 100 year protection already underway	Need update info from Anacortes	
AC			

New Projects:

From Drainage District Technical Committee:

#38 - Need interior drainage projects to handle excess flows.

Comments: Need to identify locations to direct overland flow to discharge via control structures into Samish, Padilla and Skagit bays. Everything needs to be engineered from the bottom to upstream.

From Environmental Technical Committee:

Habitat restoration projects in Upper basin tributaries could be evaluated for habitat restoration projects with flood damage reduction potential. Benefits include reduction in sedimentation and LWD (mass wasting) and increased off channel flood water attenuation (storage). Possible locations include Hansen, Coal, Wiseman, Jones creeks etc. Sources of information include the Chinook Recovery Plan and the Skagit Watershed Council strategy document and "Three year list."

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From City of Burlington:

- Burlington levee segment certification project
- Clarify the three-bridge corridor project is in phases:
 - 1. certified setback levee with existing bridges
 - 2. setting back the bridges (like in 30 years)

Comments from the City of Mount Vernon about the USACE Skagit GI Measures that have a direct and significant impact on the City of Mount Vernon.

Measure 16 – Mount Vernon Floodwall

Part of the GI Measures slide show mentions four "Potential Disadvantages" to the MV Floodwall.

The City has some level of concern with all four of the potential disadvantages comments.

- **Does not provide significant flood protection as a standalone project** The floodwall will provide significant flood protection to downtown Mount Vernon. The City can show that this is the case with both the ACE GI Hydrology model and the Cities own modeling.
- Impacts to commercial structures (i.e. parking) The Downtown and Waterfront Master Plan, which the flood wall is a key part of, calls for the replacement of all parking plus more in the downtown area. A parking structure will be built between the transportation hub and the waterfront. No long term affect on commercial business. The retail business will be replaced and additional upscale residential condos will allow local residents the full enjoyment of the Skagit River.
- **Restricts public access to the river** The City will remove the existing parking revetment which is currently a restriction to public access to the river. The City intends to increase the density of downtown, building on and enhancing existing retail activity along First Street to create a vibrant, attractive and safe waterfront and downtown, with enhanced public access to the shoreline and river, new and improved public amenities, and mixed-use redevelopment that will generate new jobs and create housing that preserves the character of downtown Mount Vernon. It is a place where people come to live, work, and play, enjoying the riverfront promenade, boutique shopping, fine dining, and entertainment of all sorts. Its public spaces are enlivened to include a farmer's market and live music. People will come for its fairs, festivals, and riverfront setting.
- **Need to determine if impacts to historic buildings** The City has completed the NEPA process and consultation with the tribes. As part of the NEPA process the City has a firm inventory of all the significant buildings within the area of impact. Of all the buildings in the area of impact only one was found to be of historic significance, the Eddy Laughlin building. The City mitigated the impacts of demolishing the building by working with the Skagit County Historical Museum and an architectural salvage company to save those building elements which have some value before we raze the building. The City of Mount Vernon inventoried the historic buildings within the entire downtown area. The City has all of the concerns addressed in a Memorandum of Understanding between the City, Washington State Historic Preservation Officer (SHPO), and the Skagit County Historical Museum.

On an additional note related to the floodwall and Skagit GI hydraulic model. It has come to the City's attention that the historic sandbag wall is not included in the existing conditions hydraulic model. The City has historically constructed flood protection along Main Street during every major flood event. In addition the City has recently purchased a mobile flood fence and constructed a concrete footing to further assure that the flood fighting operation in downtown Mount Vernon is facilitated. The City's concern is that if a 4-foot flood or sandbag wall is not included in the existing conditions hydraulic model but the proposed 4-foot Mount Vernon Flood Wall is added to the future conditions (measures) hydraulic model then the

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future conditions model may indicate changes in upstream and/or downstream conditions that, in reality, do not exist.

It is completely understandable that modeling protocols need to be followed. However, the decision makers and public still needs to understand what the actual impacts of the Mount Vernon Flood Wall will be. If the ACE modeling protocols require only permanent structures can be placed within the existing hydraulic model then this should be noted in any report. Any hydraulic report or modeling results associated with the change in conditions related to the floodwall should be fully explained to include the fact that upstream and downstream impacts may be insignificant or none at all due to the fact that the historic City of Mount Vernon sandbag wall was not included in the existing conditions hydraulic model.

Measure 20 – Mount Vernon Bypass

The bypass has some very good advantages and could provide substantial flood protection especially in conjunction with the floodwall.

One concern worth mentioning is low flow design. The City of Mount Vernon is working extremely hard to create a waterfront and downtown environment that enhances the public access to the shoreline and Skagit River. Many of the envisioned uses, like the farmers market, live music, fairs, and riverfront festivals, would take place during the traditional low flow season. The City would like to see a design that keeps the maximum amount of the river's low flows along Mount Vernon's historic downtown waterfront area.

The City appreciates all of the USACE's hard work and dedication. We look forward to an ongoing relationship and future successes.

Take care,

Blaine Chesterfield

Engineering Manager *Program Coordination Division* Public Works **City of Mount Vernon**