

Lesson-5

Disaster Assessment & Damage Survey Summary Report



Disaster Assessment

What it is?

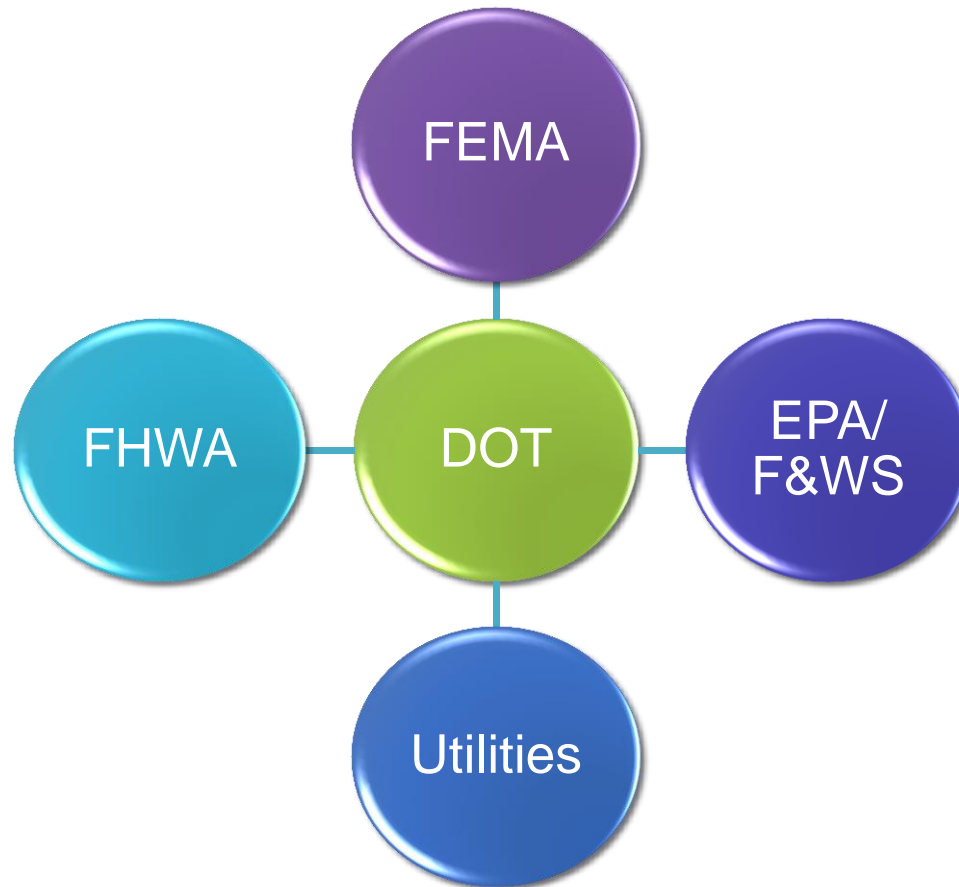
evaluation of a natural occurrence that affects transportation facilities

performed by State DOT, FHWA field staff & local authorities

verify the extent of damage

estimate the cost of repairs eligible for ER funding

Disaster Assessment



Early agency coordination is critical!

Damage Survey Summary Report (DSSR)

Prepared by State DOT for an eligibility determination by the FHWA Division Administrator.

Content furnished by DOT:

description of damage

approximate cost

description of the limits and destruction

dates of occurrence

pictures

Detailed Damage Inspection Report (DDIR)

What it is?



preliminary cost estimate

brief description of the scope of work

determination of eligibility

support our request to HQ for
Emergency Relief funding

one is written per site

Detailed Damage Inspection Report (DDIR)



What it is not?

contracting mechanism

NEPA determination or approval

authorization to begin Permanent
Restoration work

DDIR Form FHWA-1547



What is included?

specific location

description of damage

Emergency Repair (ER)

Permanent Restoration (PR)

cost and quantity estimates


Method of work

Environmental determination
(NEPA)

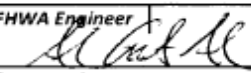
FHWA / State Recommendations

State and/or Local Agency
Concurrence

DDIR Form FHWA-1547

		DETAILED DAMAGE INSPECTION REPORT (Title 23, Federal-aid Highways)			Report number	
					Sheet <u>1</u> of <u>1</u>	
Location (Name of Road and Milepost) PR-181 Km 20.9, Gurabo Daños por Huracán Irene		FHWA Disaster Number			Inspection Date August 28, 2011	
Description of Damage Para estabilizar el deslizamiento en el área se deben realizar los siguientes trabajos: <ul style="list-style-type: none"> • Instalar "silt fence" • Demoler muro existente en hormigón y bloque el cual colapsó, encintados y cunetones. • Remover y disponer material de excavación de estructura y escombros por demolición. • Construir un nuevo muro en hormigón de aproximadamente 40.0 LnM. • Depositar material selecto • Construir cunetones y encintados • Remover y disponer "guard rail" • Instalar "guard rail" nuevo • Remover Asfalto existente (Cold Milling). • Depositar asfalto y marcado de pavimento. 		Federal-aid Route Number			State Puerto Rico Country Gurabo	
Cost Estimate						
Emergency Repair	Description of Work to Date (Equipment, Labor, and Materials)	Unit	Unit Price	Quantity	Cost	
					Completed	Remaining
					\$ -	
	Method <input type="checkbox"/> Local Forces <input type="checkbox"/> State Forces <input type="checkbox"/> Contract				Subtotal PE/CE	
				Emergency Repair Total		

DDIR Form FHWA-1547

Permanent Restoration	(Spec. 151-001) Mobilization 10%	LS	\$ 149.80	100.00	\$ 14,979.50
	(Spec. 202-001) Removal of Structures & Obstruction	LS	\$ 200.00	100.00	\$ 20,000.00
	(Spec. 203-001) Unclassified Excavation	CuM	\$ 25.00	225.00	\$ 5,625.00
	(Spec. 203-008) Borrow Class B	CuM	\$ 19.00	600.00	\$ 11,400.00
	(Spec. 206-001) Unclassified Excavation for Structure	CuM	\$ 20.00	425.00	\$ 8,500.00
	(Spec. 210-007) Silt Fence	LnM	\$ 8.00	60.00	\$ 480.00
	(Spec. 301-001) Subbase Course	CuM	\$ 40.00	45.00	\$ 1,800.00
	(Spec. 304-001) Aggregate Base Course	CuM	\$ 65.00	12.00	\$ 780.00
	(Spec. 401-032) Hot Plant-Mix Bituminous Pavement Type S(75)(12)	Ton	\$ 150.00	25.00	\$ 3,750.00
	(Spec. 401-049) Hot Plant-Mix Bituminous Pavement Mix B (75)	Ton	\$ 145.00	25.00	\$ 3,625.00
	(Spec. 403-001) Cold Milling Bituminous Concrete Pavement	CuM	\$ 55.00	25.00	\$ 1,375.00
	(Spec. 601-009) Rubble Concrete	CuM	\$ 325.00	180.00	\$ 58,500.00
	(Spec. 606-001) Corrugate Steel Beam Guard Rail, Single Face	LnM	\$ 125.00	45.00	\$ 5,625.00
	(Spec. 606-003) Removal, Storage and Delivery of Existing Guard Rail	LnM	\$ 25.00	45.00	\$ 1,125.00
	(Spec. 609-009) Combination Concrete Curb and Gutter, Type F	LnM	\$ 70.00	60.00	\$ 4,200.00
	(Spec. 617-003) Bed Course Material	CuM	\$ 45.00	10.00	\$ 450.00
	(Spec. 617-001) Concrete Paved Waterway	SqM	\$ 75.00	40.00	\$ 3,000.00
	(Spec. 618-007) Thermoplastic PVT markings Stripes, white & yellow	LnM	\$ 6.00	135.00	\$ 810.00
	Spec. (888-150) Allowance for PRASA	FA	\$ 50.00	100.00	\$ 5,000.00
	Spec. (888-151) Allowance for PREPA	FA	\$ 50.00	100.00	\$ 5,000.00
(Spec. 638-000) Maintenance of Traffic (Small Area, <100 LnM)	LS	\$ 50.00	100.00	\$ 5,000.00	
(Spec. 909-002) Prefabricated Drainage Composite	SqM	\$ 25.00	150.00	\$ 3,750.00	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
Method <input type="checkbox"/> Local Forces <input type="checkbox"/> State Forces <input checked="" type="checkbox"/> Contract					Subtotal PE/CE Right-of-Way Perm. Repair Totals
					\$ 164,774.50
Environmental Assessment Recommendation <input type="checkbox"/> Categorical Exclusion <input type="checkbox"/> EA/EIS					Estimated Total \$ 164,774.50
Recommendation <input checked="" type="checkbox"/> Eligible <input type="checkbox"/> Ineligible		FHWA Engineer 		Date Sept 25, 2011	
Concurrence <input type="checkbox"/> Yes <input type="checkbox"/> No		State Engineer		Date	
Concurrence <input type="checkbox"/> Yes <input type="checkbox"/> No		Local Agency Representative		Date	

Initial DDIRs General Requirements

General Requirements

DDIRs
completed/
submitted within
180 days!



DDIR Form FHWA-1547

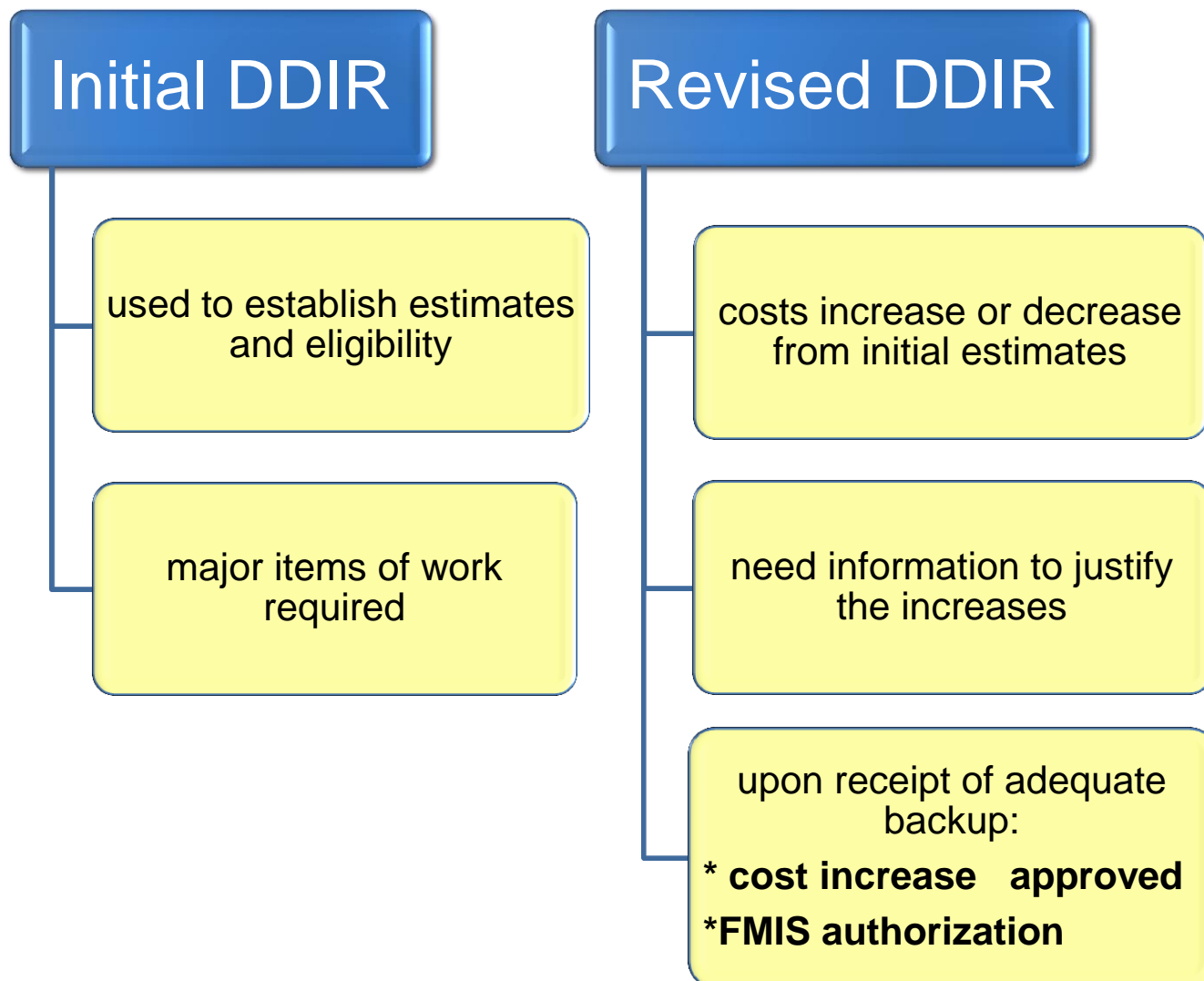
copies of contracts and amendments

cost summaries or spreadsheet
(not lump sum)

sketch of the site and required photos

FHWA Emergency Relief
eligible roads

Phases of the DDIR



DDIR Team Members



FHWA/State



State and/or Local Agency
Representatives



Specialists:

- Geotechnical Engineer
- Hydrologist
- Biologist
- Cultural Specialist
- Structural Engineer
- Right of Way Specialist
- Environmental Specialist

DDIR Team Equipment



Functional Classification Maps

FHWA Emergency Relief Manual

Camera

Calculator

Measuring Tape

List of Average Unit Prices

Blank DDIR forms

Safety Equipment