

**FISCAL YEAR 2007
WORK PROGRAM
AND
COST ESTIMATE
FOR
TRANSPORTATION RESEARCH
PROJECT SPR-PL-MPL-1 (404) PART II**

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PART II BUDGET AND STUDY ADVISORY MEMBERS, FISCAL YEAR 2007

STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-3120-3128	Administration and Peer Review	\$ 418,819		
SPR-3129-3139	Contingency Fund	\$ 500,000		
SPR-3140-3149	Implementation Fund	\$ 1,000,000		

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2200	High Performance Concrete (HPC) Bridge Project for SR-43	20,000	R. Drumm	T. Nantung ³ J. Wright M. Byers Y. Belew N. Comstock J. Golkhajeh
SPR-2205	Wetlands Replacement Practices and Procedures for Indiana Highway Projects	0	J. Newland	B. Partridge ³ J. Wilson
SPR-2228	Research and Education Initiatives of the JTRP	20,000	D. Unkefer	B. Partridge ³
SPR-2335	Lab Testing and Field Implementation of Soil Flushing	0	J. Newland	B. Partridge ³ J. Osadcuk T. Shields B. Jarvis L. Nies
SPR-2350	Information Technology Initiative of the JTRP	100,000	D. Unkefer	B. Partridge ³
SPR-2357	Initiative for Formulating a Long-Range Research Plan for INDOT	10,000	D. Unkefer	B. Partridge ³ J. Weaver
SPR-2378	Implementation of Erosion Control Warranty Specification	3,000	E. Ratulowski	S. Newbolds ³ E. Spangler M. Dougherty R. Phillabaum B. Flint
SPR-2382	Performance Related Specifications for Concrete Pavement, Phase II	10,000	L. Gallivan	T. Nantung ³ R. Smutzer J. Weaver T. Zander B. Flora

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2385	Fatigue of Older Bridges in Northern Indiana Due to Overweight and Oversize Loads	0	K. Hoernschemeyer	T. Nantung ³ R. Fieberg W. Skinner B. Dittrich A.Khan
SPR-2393	Jointless and Smoother Bridges	50,000	K. Hoernschemeyer	T. Nantung ³ K. Dughaiash N. Burki R. Strain J. Golkhajah M. Wenning
SPR-2400	Effective Deployment of Portable Dynamic Message Signs	3,000	D. Lee	S. Noureldin ³ M. Newland D. Boruff W. Shaw
SPR-2411	Using Automated Vehicle Location Technology to Enhance Traffic Signal Timing and Travel Demand Modeling	15,000	D. Lee	S. Noureldin ³ S. Smith D. Shamo J. Nagle M. Newland
SPR-2413	Frictional Resistance of Superpave Mixtures	0	R. Drumm	S. Noureldin ³ B.Flora K. Sommer S. Shahbahrani R. Terrell D. Andrewski E. Pastuszka

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2415	Mechanistic Evaluation of Rubblized PCC Pavements	20,000	L. Gallivan	K. Dave S. Shabahrami
SPR-2417	Performance of Indiana's Superpave HMA Mixtures	9,000	L. Gallivan	K. Sommer D. Hamilton V. Shipbaugh D. Andrewski L. Bandy J. Roccio G. Huber
SPR-2419	Performance Evaluation of Ultrathin White Topping Using Large Scale Accelerated Pavement Testing Facility	50,000	L. Gallivan	Y. Belew L. Vaughn T. Johnson B. Tompkins M. Byers B. Flora
SPR-2454	Snow and Ice Removal and Anti-Icing Synthesis Study	0		T. Williams ³ D. Belter T. Konieczny T. Byrns
SPR-2455	Constructed Wetlands for INDOT Rest Stop Wastewater Treatment: Proof of Concept Research	25,000	J. Newland	B.Partridge ³ F.Abbassi C.Mason T. Duncan

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SPR-2456	Hydrology of Natural and Constructed Wetlands, Phase I	50,000	A. DeSimone	B.Partridge ³ S. Sperry J. Unterreiner S. McAvoy T. Vanderpool M. Doughery
SPR-2459	The Problem of Wet Subgrades	3,000	V. Straumins	S. Noureldin ³ M. Wink G. Pankow C. Alley P. Berebitsky J. Sanneman N. Zia D. Kim
SPR-2469	Alternative Land Use Patterns to Minimize Congestion Research and Education Forums, Part I	1,500	J. Newland	S. Li ³ S. Smith J. Nagle
SPR-2472	Investigation of the Performance of Neat and Modified Asphalt Binders	0	L. Gallivan	T. Nantung ³ E. Pastuszka
SPR-2487	Constructed Wetland Systems for Wastewater Management	174	J. Newland	B.Partridge ³ F.Abbasi C.Mason J. Unterreiner
SPR-2491	Implementation of a Non-Metallic Reinforced Bridge Deck	0	K. Hoernschemeyer	T. Nantung ³ G. Snyder D. Leonard T. Byrne

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SPR-2494	Fatigue Strength and Evaluation of Sign Structures	0	E. Ratulowski	S. Newbolds ³ T. Bewley D. Louie P. Patel
SPR-2495	Evaluation of Radar (Radio Detection and Ranging) Sensing in Reducing Vehicle-Deer Collisions on the Indiana Toll Road	0	K. Stippich	S. Noureldin ³ S. Wolfe C. Tuttle T. Duncan D. Hinshaw J. Nagle
SPR-2591	Determination of Ash Mixture Properties and Construction of Test Embankment	2,000	K. Hoernschemeyer	D. Kim ³ H. Lewis T. Duncan L. Messinger N. Zia
SPR-2630	Response of Laterally Loaded Piles in Multi-Layer Soils	35,000	K. Hoernschemeyer	D. Kim ³ M. Zaheer
SPR-2632	Interpretation of Cone Penetration Tests in Cohesive Soils	0	K. Hoernschemeyer	D. Kim ³ N. Zia
SPR-2634	Limit States and Load Resistance Design of Slopes and Retaining Structures	32,500	K. Hoernschemeyer	D. Kim ³ M. Zaheer
SPR-2636	Mitigating the Expansive Behavior of Chemically Treated Soils	40,000	D. Unkefer	D. Kim ³ M. Zaheer
SPR-2642	High-Performance Concrete Pavement for Indiana	63,684	L. Gallivan	K. Sommer T. Zander B. Flora

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2647	Risk Analysis of the INDOT Implementation of the Maturity Concept	0	L. Gallivan	D. Kuchler Y. Belew M. Byers D. Newell
SPR-2648	Evaluation of Rapid Setting Cement-Based Materials for Patching and Repair (Phase I)	0		S. Newbolds ³ Y. Belew M. Byers W. Flora
SPR-2780	Constructed Wetland Remediation of Slag Leachates	0	A. DeSimone	B. Partridge ³ T. Duncan B. Rees
SPR-2783	A Study of Effective Compaction of Granular Soils	9,500	L. Gallivan	D. Kim ³ G. Pankow N. Zia S. Sipes J. Geiger K. Sommer
SPR-2789	Dowel Bar Retrofit Mix Design and Specification	10,000	L. Gallivan	M. Byers Y. Belew R. Meskis
SPR-2791	Expansion of Concrete Technology to the Districts	15,000	L. Gallivan	M. Miller S. Thieroff R. Walker T. Zander M. Byers D. Newell T. Grisinger

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2792	Field Investigation of Concrete Design Designed by the Empirical Method	14,000	K. Hoernschemeyer	T. Nantung ³ J. Jordan D. Leonard Y. Belew
SPR-2793	Long-Term Effects of Super Heavy-Weight Vehicles on Bridges	13,753	K. Hoernschemeyer	T. Nantung ³ J. Jordan D. Andrewski B. Dittrich D. Ishola-Ghenla B. Harvey W. Skinner J. Faulkenberg R. Fieberg
SPR-2813	Validation of NCAT Structural Test Track Experiment Using INDOT APT Facility	170,000	L. Gallivan	T. Nantung ³ D. Andrewski K. Sommer G. Huber L. Bandy J. Haddock D. Bonte B. McDaniel

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2851	Corridor Mapping Using Aerial Lidar Techniques	26,000	A. DeSimone	D. Harris ³ B. Steckler J. McManama S. Ashby J. Kinder D. Long J. Nugent
SPR-2852	Wireless Communication Projects	30,000	D. Lee	S. Newbolds ³ J. Nugent B. McCullouch R. Gallagher L. Hartman J. Wasson S. Swinford C. Harris J. Sturdevant

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2853	Assessment and Selection of Storm Water BMPs for Highway Construction, Retrofitting, and Maintenance	1,500	D. Unkefer	B. Partridge ³ R. Buskirk R. Phillabaum B. Tompkins M. Dougherty R. Fry R. Turner T. Vanderpool K. Cornett T. Duncan R. Cales P. Berebitsky M. Ruhl B. Ghalayini B. Vakily G. Hughes D. Hayward

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2854	Deriving the Cost Impacts of Indiana's Storm Water Rule 13 on INDOT Maintenance Facility Operations	20,000	K. Hoernschemeyer	B. Partridge ³ T. Butler R. Buskirk R. Phillabaum M. Dougherty T. Giller R. Turner T. Vanderpool S. McAvoy T. Duncan B. Vakily B. Ghalayini G. Hughes
SPR-2855	Mechanically Stabilized Earth Wall Abutments for Bridge Support	30,000	K. Hoernschemeyer	D. Kim ³ T. Uremovich S. Hiremath
SPR-2856	Assessment of Axially-Loaded Pile Dynamic Design Methods and Review of INDOT Axially-Loaded Pile Design Procedure	115,000	K. Hoernschemeyer	D. Kim ³ D. Leonard M. Zaheer N. Zia
SPR-2857	Tire Shred Backfill in Mechanically Stabilized Earth Wall Applications	20,000	D. Unkefer	D. Kim ³ M. Frazer T. Uremovich N. Zia S. Newell

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2859	Factors in Debris Accumulation at Bridge Crossings	600	D. Unkefer	S. Newbolds ³ M. Dougherty B. Bowman J. Ude T. Shields T. Duncan B. Dittrich J. McCrary D. Ghere D. Knipe
SPR-2860	Update Commodity Flow Model - Freight Forecast -Truck and Rail	15,854	D. Franklin	S. Noureldin ³ R. Rebling S. Smith J. Weaver R. Nunnally T. Beck D. Munn S. Sigman

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2861	Economic Development Effects of INDOT Transportation Projects	50,000	J. Newland	S. Nouredin ³ R. Rebling L. Bandy D. Faulkenberg S. Smith P. Desai J. McManama J. Leckie J. Weaver E. Hays M. Kenley
SPR-2862	Determining the Binder Content of Hot Mix Asphalt Containing Dolomitic Aggregates Using the Ignition Oven	25,000	L. Gallivan	J. Stone R. Terrell D. Bonte E. Pastuszka K. Sommer
SPR-2863	Saw-Cutting Guidelines for Concrete Pavements: Examining the Requirements for Time and Depth of Saw-Cutting	15,000	L. Gallivan	T. Nantung ³ D. Kuchler M. Byers D. Newell S. Newbolds Y. Belew J. Cheatham J. Keefer

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2864	Optimization of Mixture Properties for Concrete Pavement	25,000	L. Gallivan	S. Thieroff M. Byers D. Newell S. Newbolds Y. Belew T. Grisinger M. Kaelin
SPR-2865	Investigation of Coarse Aggregate Strength for Use in Stone Matrix Asphalt	0	L. Gallivan	K. Galal ³ B. Williamson G. Huber D. Andrews
SPR-2866	Specifications for Flowable Fill in Indiana	0	L. Gallivan	J. James D. Hamilton Y. Belew T. Grisinger C. Tull C. Wolff N. Thoeming
SPR-2867	Earthquake Resistance of Integral Bridges	60,000	K. Hoernschemeyer	T. Nantung ³ J. McCrary T. McClellan R. Strain M. Zaheer
SPR-2868	Training for Load and Resistance Factor Design	8,000	K. Hoernschemeyer	S. Newbolds ³ J. Jordan M. Zaheer

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SPR-2869	Instrumented Intersection in Noblesville, Indiana	25,000	D. Lee	S. Li ³ E. Cox J. Sturdevant R. Gallagher C. Lang G. Walk D. Shamo D. Plattner D. Schoon
SPR-2870	Cost Effectiveness Analysis of Ramp Metering and High Occupancy Vehicle Facilities: A Synthesis Study	0	D. Lee	S. Li ³ R. Rebling E. Cox R. Gallagher J. Sturdevant M. Newland S. Wuertz D. Shamo B. Steckler J. Nagle
SPR-2872	Synthesis of Best Practices in Transportation Security	5,500	K. Hoernschemeyer	T. Nantung ³ J. Poturalski M. Hougland B. Bonning
SPR-2874	Primary Emergency Route for Transportation Security	0	K. Hoernschemeyer	T. Nantung ³ S. Wuertz T. Shields

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2875	Safety-Conscious Planning in Indiana - Predicting Safety Benefits in Corridors	10,000	K. Stippich	T. Nantung ³ J. Nagle S. Smith R. Nunnally R. Drumm
SPR-2910	Annual Motor Oil Usage Reduction and Engine Life Extension Through Bypass and Full Flow Bypass Oil Filtration for INDOT Heavy Duty Vehicles	0		B. Partridge ³ B. Timm M. Frazer O. Carter
SPR-2911	High-Performance Concrete Bridge Decks: A Fast-Track Implementation Study	35,000	K. Hoernschemeyer	T. Nantung ³ J. Jordan T. Zander S. Newbolds M. Byers

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2922	Automated Vehicle Location (AVL) for Road Condition Reporting	25,000	K. Stippich	K. Zhu ³ J. Nugent S. Swinford T. McClellan T. Konieczny M. Newland D. Sipes M. Rivers D. Russell M. Simpson D. Belter J. Wasson S. Newbolds G. Phillips J. McIntyre D. Unkefer
SPR-2923	Implementation of Warranty Clauses for Steel Bridge Painting Contracts	12,000	K. Hoernschemeyer	T. Nantung ³ T. McClellan B. Dittrich J. Golkhajeh S. Bates

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2925	Highway Mortality (Roadkill) Reduction of Terrestrial Vertebrates	0	R. Drumm	B. Partridge ³ J. Nagle B. Williamson K. Knoke D. Russell J. Keefer A. Nahrwold S. Sperry D. Beall
SPR-2927	Efficacy of Incentive Structures for Environmental Protection in Road Construction	0	R. Dirks	B. Partridge ³ S. Thieroff D. Rogers T. Duncan J. Jones
SPR-2928	Advanced Compaction Quality Control	7,000	L. Gallivan	D. Kim ³ S. Hiremath J. Kaiser
SPR-2930	A Method for Accounting for Pile Setup and Relaxation in Pile Design and Quality Assurance	45,000	K. Hoernschemeyer	D. Leonard M. Zaheer J. Franzino J. Camacho
SPR-2931	Use of Micropiles for Foundations for Transportation Projects	40,000	K. Hoernschemeyer	D. Kim ³ D. Leonard M. Zaheer

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2932	Statistical Analysis of Indiana Rainfall Data	1,000	D. Ghere	S. Newbolds ³ M. Dougherty D. Knipe D. Finley J. Pangallo
SPR-2933	A Truck-Mounted Scour Inspection System for INDOT	95,000	K. Hoernschemeyer	S. Newbolds ³ M. Dougherty D. Knipe A. McClellan B. Dittrich J. McCrary J. Jones D. Ghere L. Feagans M. Rairdon
SPR-2934	Alternatives to Fuel Tax	35,000	J. DuMontelle	S. Noureldin ³ D. Holtz D. Faulkenberg L. Bandy M. Byers S. Risch G. Eaton
SPR-2935	Development of Standards for Conducting an Origin-Destination Study	5,000	J. Newland	S. Li ³ S. Smith S. MacArthur R. Black

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2936	Investigating the Feasibility of Integration Pavement Friction and Texture Depth Data in Modeling for INDOT PMS	20,000	L. Gallivan	D. Andrewski B. Flora M. Yamin G. Huber M. Byers B. Williams L. Bandy K. Stippich
SPR-2938	Materials Characterization for AASHTO 200x Design Guide	150,000	L. Gallivan	D. Andrewski K. Dave J. James B. Flora G. Huber L. Bandy M. Byers S. Boyer
SPR-2939	Long-Term Performance of a Porous Friction Course	25,000	L. Gallivan	S. Nouredin ³ B. Cruea D. Andrewski M. Yamin D. Hamilton J. Novak J. Kaiser E. Pastuszka

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SPR-2940	Synthesis Study: Mechanistic Evaluation of Composite Pavement Design	25,000	L. Gallivan	D. Andrewski J. James M. Yamin T. Byrne G. Huber L. Bandy M. Byers
SPR-2941	Modifying the Selection Process of Concrete Mixture Proportions for INDOT	20,000	K. Hoernschemeyer	T. Nantung ³ D. Leonard J. Jordan A. Zander Y. Belew J. Golkhajeh R. Strain J. Routh M. Byers S. Barry
SPR-2942	Fatigue Strength of Steel Bridge Members with Intersecting Welds	55,000	K. Hoernschemeyer	S. Newbolds ³ D. Leonard B. Dittrich J. Mickler G. Snyder C. Bucher

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STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-2943	Evaluation of Fiber-Reinforced Polymer Decks for Bridge Rehabilitation	35,000	K. Hoernschemeyer	T. Nantung ³ D. Leonard Y. Belew J. Golkhajah A. Rearick G. Lee
SPR-2944	Experimental Evaluation and Implementation of Post-Tensioning in Concrete Bridge Decks	50,000	K. Hoernschemeyer	S. Newbolds ³ D. Leonard Y. Belew J. Golkhajah N. Shah J. Ford G. Klevitsky
SPR-2946	Blind Pedestrians and their Ability to Navigate Indiana Intersections – a Review of the Technology Available for Audible Signals	350	R. Drumm	S. Li ³ C. Coffin A. Hanza E. Rader D. Koors
SPR-2947	Effective and Robust Coordination of Traffic Signals on Arterial Streets	12,000	D. Lee	S. Li ³ J. Nagle R. Gallagher J. Peters D. Lee J. Sturdevant G. Montgomery

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SPR-2948	Dynamic Message Signs on Indiana Highways – Guidelines for Message Content and Deployment	5,000	D. Lee	S. Li ³ P. Berebitsky M. Newland D. Boruff J. Nagle M. Hofmann J. Wasson M. Simpson S. Apple
SPR-2949	Raised Pavement Marking Effectiveness and Criteria for Placement (Synthesis Study)	500	R. Drumm	S. Li ³ D. Harris C. Tuttle E. Rader T. Summers D. Ellis J. Nagle
SPR-2950	Risk Assessment of Various Median Treatments of Rural Interstates	10,000	R. Drumm	T. Nantung ³ R. Glesing G. Mrocza B. Steckler D. Andrewski J. Nagle J. Ude G. Richards

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SPR-2951	Expert System to Support Site Investigation for Safety Improvement	10,000	R. Drumm	K. Zhu ³ S. Li J. Nagle M. Holowaty K. Kalirai E. Rader
SPR-2952	Merging ITS and Smart Infrastructure	30,000	D. Lee	B. Partridge ³ T. Nantung J. Nugent M. Newland E. Conklin M. Hougland M. Simpson D. Bullock
SPR-2953	Investigation of Factors Affecting the Improvement of Clay with Ground Blast Furnace Slag	35,000	K. Hoernschemeyer	T. Nantung ³ D. Kim T. Sorge N. Zia T. Duncan B. Descheneaux D. McPherson J. Hile
SPR-2954	Mock Drill Prototype for Transportation Security	25,000		B. Partridge ³ M. Smith T. Nantung

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SPR-2981	Creation of a Committed Johnson Grass Research Test Area and an Implementation Study	12,000		S. Newbolds ³ D. Lamb B. Fielding O. Nantz C. Mason
SPR-2982	Implementation of Instructional Materials for Bridge Deck Construction Inspection	1,000		A. Zander J. Jordan D. Leonard
SPR-2985	Implementation Study: Surface Texture and Friction Characteristics on Tined Concrete Pavements	1,200		S. Noureldin ³ K. Zhu
SPR-2986	Innovative Remediation Technology Implementation Plan for the Crawfordsville INDOT ROW Site	70,000	A. DeSimone	B. Partridge ³ B. Vakily
SPR-2987	Nighttime Maintenance Safety	30,000	R. Drumm	S. Newbolds ³ M. Bowman J. Jones S. Shields C. Lee P. Monroe C. Nierman K. Rogan D. Rogers C. Tuttle
SPR-3000	Durability and Retroreflectivity of Pavement Markings (Synthesis Study)	10,000	D. Unkefer	D. Harris ³ C. Tuttle
SPR-3002	Applicability of Borman Decision Tree ITS Management Tool to Other Expressway Systems	35,000		

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SPR-3003	Evaluating the Re-release of Mercury from Recycled Coal Combustion Residues: A Synthesis Study	20,000	R. Dirks	B. Partridge ³ K. Banks N. Zia
SPR-3005	Classification of Organic Soils	20,000	K. Hoernschemeyer	D. Kim ³ N. Zia S. Hiremath J. Stone A. Apple G. Ellis
SPR-3006	Design and Application of Helical (Screw) Piles	25,000	K. Hoernschemeyer	D. Kim ³ M. Zaheer D. Leonard A. Apple G. Ellis
SPR-3007	Post-Construction Evaluation of Lime-Treated Soils	15,000	K. Hoernschemeyer	D. Kim ³ N. Zia K. Dave M. Byers A. Apple G. Ellis J. Hile
SPR-3008	Evaluation of In-Situ Stiffness of Subgrade by Resilient and FWD Modulus	15,000	L. Gallivan	D. Andrewski V. Drnevich J. James G. Ellis

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PART II BUDGET AND STUDY ADVISORY MEMBERS, FISCAL YEAR 2007

STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-3009	Use of DCPT and Clegg Hammer for Quality Control/Quality Assurance of Roadway Compaction and Construction	25,000	L. Gallivan	D. Kim ³ N. Zia R. Heustis A. Apple G. Ellis C. Wildt S. Sweeney M. Rose
SPR-3010	WWW-Based Watershed Delineation and Characterization System	50,000	D. Ghere	S. Newbolds ³ K. Zhu M. Dougherty L. Feagans M. Wood B. Burns
SPR-3011	Bendway Weirs: An Environmentally-Sensitive Response to Stream Stability Problems at Bends	45,000	D. Ghere	S. Newbolds ³ M. Dougherty
SPR-3012	Development of a Framework for Ex Post Facto Evaluation of Transportation Projects and Programs in Indiana	50,000		
SPR-3013	Updating and Enhancements of the Indiana Bridge Management System (IBMS)	55,000	K. Hoernschemeyer	S. Noureldin ³ J. Weaver D. Holtz J. Golkhajej K. Zhu
SPR-3015	A Prescriptive Analysis of the Indiana Coal Transportation Infrastructure	25,000		S. Noureldin ³ L. Heil T. Beck S. Smith

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PART II BUDGET AND STUDY ADVISORY MEMBERS, FISCAL YEAR 2007

STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-3016	Investigation of Premature Distress Around Joints in PCC Pavement	30,000	L. Gallivan	D. Andrewski G. Kicinski M. Koch M. Byers D. Newell T. Zander
SPR-3017	Continued Monitoring of Indiana's SPS9-A Test Site	12,000	L. Gallivan	T. Nantung ³ D. Andrewski
SPR-3018	Evaluation of Recycled Asphalt Pavement for Surface Mixtures	15,000	L. Gallivan	T. Nantung ³ D. Andrewski J. Novak S. Henderson
SPR-3019	Field Trials of Rapid Setting Repair Materials	12,000	L. Gallivan	T. Nantung ³ K. Dave J. Novak M. Byers
SPR-3020	Updating Physical and Chemical Characteristics Data for Fly Ash in Concrete	40,000	L. Gallivan	T. Nantung ³ D. Andrewski D. Vogel
SPR-3021	PCC Properties to Support W/C Determination for Durability	40,000	L. Gallivan	T. Zander D. Leonard M. Byers C. Wolf

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PART II BUDGET AND STUDY ADVISORY MEMBERS, FISCAL YEAR 2007

STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-3022	Training for Load and Resistance Factor Design (LRFD) of Substructures	60,000	K. Hoernschemeyer	S. Newbolds ³ J. Nugent A. Rearick N. Burki G. Klevitsky M. Wood L. Egler
SPR-3023	Evaluation and Verification of Bridge LRFD Design and Analysis Software for INDOT	50,000	K. Hoernschemeyer	S. Newbolds ³ A. Rearick J. Nugent
SPR-3024	Innovative Bridge Construction Program: Implementation of Full-Depth Bridge Deck Panels in Indiana	30,000	K. Hoernschemeyer	T. Nantung ³ D. Leonard E. Liberati B. Rinard M. Wenning E. Spahr
SPR-3025	Synthesis Study: Heat Treatment and Its Applications for Rehabilitating Steel Bridges in Indiana	20,000	K. Hoernschemeyer	S. Newbolds ³ D. Leonard G. Snyder

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PART II BUDGET AND STUDY ADVISORY MEMBERS, FISCAL YEAR 2007

STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-3026	Implementation of Station Health Monitoring Procedures for ITS Sensors	50,000	K. Stippich	S. Li ³ D. Belter M. Newland M. Simpson J. Wasson D. Rogers D. Pierle T. Boyd B. Egelsen K. Mangold
SPR-3028	Risk Management Assessment of Upgrading, Standardizing Guardrail	14,000	D. Unkefer	B. Steckler S. Thieroff J. Nagle L. Vaughan E. Conklin D. Belter K. Munro
SPR-3029	Assessment and Enhancement of Awareness Training and Security	55,000	K. Hoernschemeyer	B. Partridge ³ D. Belter M. Newland D. Shelton
SPR-3030	Influence of Speed on Safety	30,000	R. Drumm	S. Li ³ J. Nagle M. Holowaty D. Steckler S. Wuertz

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PART II BUDGET AND STUDY ADVISORY MEMBERS, FISCAL YEAR 2007

STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-3032	Bicycle Safety Feasibility Study	18,000	R. Srumm	B.Partridge ³ R. Irvin M. O'Loughlin C. Szabo
SPR-3049	INDOT and Indiana Supply Chains	0	K. Quinn	B. Partridge ³ T. Sharp J. Weaver T. Nantung K. Sinha P. Klika
SPR-3050	INDOT Customer Service	0	K. Quinn	B. Partridge ³ L. Sadler R. Thomas C. Carr T. Nantung B. McCullouch
SPR-3051	Development of Integrated Land-Use Transportation Model for Indiana	150,000		S. Noureldin S. Smith

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PART II BUDGET AND STUDY ADVISORY MEMBERS, FISCAL YEAR 2007

STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-3060	Critical Route Network for Earthquake Response and Dynamic Routes Analysis	3,000	K. Hoernschemeyer	T. Nantung ³ W. Dittelberger J. Thompson M. Bowman B. Rinard J. Jordan R. Strain M. Zaheer M. Wood D. Chase B. Dittrich K. Dughaish D. Leonard L. Vaughan T. McClellan C. Schum K. Mangold D. Holtz J. McCrary J. Hill
SPR-3061	Safety Enhancement of the INDOT Network Pavement Friction Testing Program	10,000	L. Gallivan	
SPR-3062	Development of a Structural Index as Integral Part of the Overall Pavement Quality in the INDOT PMS	25,000		
SPR-3063	Computation of Indiana Flood Discharges	0	K. Hoernschemeyer	S. Newbolds ³ M. Dougherty M. Wood B. Burns

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PART II BUDGET AND STUDY ADVISORY MEMBERS, FISCAL YEAR 2007

STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
SPR-3085	Worker Injury Prevention Strategies	40,000		S. Newbolds C. Lee
SPR-3113	Development of a Comprehensive Highway Technician Training Program for INDOT Personnel	40,000		B. Partridge
SPR-3115	Project Management Training for INDOT	40,000		B. Partridge
FHWA-2004001	Implementation of a Non-Metallic Reinforced Bridge Deck: Phase II	1,000	K. Hoernschemeyer	T. Nantung ³ T. Byrne D. Leonard G. Snyder
FHWA-2004024	Deck Replacement - Use of Extra Coating Thickness Epoxy-Coated Bars	16,000	K. Hoernschemeyer	T. Nantung ³ G. Snyder M. Barrett J. Webster
FHWA-9979022	Design, Construction, and Evaluation of Fiber Reinforced Polymer Decks for Bridge Rehabilitation	19,000	K. Hoernschemeyer	T. Nantung ³ G. Snyder

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PART II BUDGET AND STUDY ADVISORY MEMBERS, FISCAL YEAR 2007

STATE PROJECT NUMBER	STUDY TITLE	BUDGET ESTIMATE (\$)	FTC¹	SAC²
PUR-2990	Mobile Weather and Road Condition Reporting	19,000	K. Stippich	K. Zhu ³ J. Nugent S. Swinford T. McClellan T. Konieczny M. Newland D. Sipes M. Rivers D. Russell M. Simpson D. Belter S. Newbolds J. Wasson G. Phillips J. McIntyre D. Unkefer

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SPR PART II COST ESTIMATE AND COMPLETION DATE SUMMARY

Project No.	Project Title	Agency	Latest Appr. Total	Est. Cost to 6/30/06	Est. Cost in FY 2006	Est. Cost in FY2007	Completion Date	Expected Draft Final Report
SPR-2200	High Performance Concrete Bridge Project for SR 43	JTRP	175,000	127,087	0	20,000	04/30/08	Submitted 04/30/03
SPR-2205	Wetlands Replacement Practices and Procedures for Indiana Highway Projects	JTRP	67,220	67,220	0	0	10/31/05	Submitted 6/14/02
SPR-2228	Research and Education Initiatives of the JTRP	JTRP	298,450	290,450	26,000	20,000	09/30/06	Annual report
SPR-2335	Lab Testing and Field Implementation of Soil Flushing	JTRP	145,482	145,376	0	0	06/30/05	02/28/05
SPR-2350	Information Technology Initiative Within the JTRP	JTRP	814,422	708,328	145,094	100,000	06/30/06	Annual report
SPR-2357	Initiative for Formulating a Long-Range Research Plan for INDOT	JTRP	248,000	240,000	42,625	10,000	11/16/06	Annual report
SPR-2378	Implementation of Erosion Control Warranty Specifications	JTRP	43,797	35,277	0	3,000	11/30/09	07/31/09
SPR-2382	Performance Related Specifications for Concrete Pavement, Phase II	JTRP	199,739	189,388	1,500	10,000	07/31/05	Submitted 09/30/03
SPR-2385	Fatigue of Older Bridges in Northern Indiana Due to Overweight and Oversize Loads	JTRP	290,500	290,500	0	0	11/30/04	07/31/04
SPR-2393	Jointless and Smoother Bridges	JTRP	313,655	258,773	8,700	50,000	12/31/07	Submitted 9/27/04
SPR-2400	Effective Deployment of Portable Dynamic Message Signs	JTRP	95,010	92,010	7,250	3,000	12/31/06	Submitted 08/28/01
SPR-2411	Using Automated Vehicle Location Technology to Enhance Traffic Signal Timing and Travel Demand Modeling	JTRP	124,648	98,474	5,350	15,000	12/31/06	Submitted 05/23/01
SPR-2413	Identification of Laboratory Techniques to Optimize Superpave HMA Surface Friction Characteristics (Pooled Fund Study)	JTRP	80,000 (320,000 Total Funding)	80,000	9,500	0	02/28/06	10/31/05*

*Time extension request in progress.

SPR PART II COST ESTIMATE AND COMPLETION DATE SUMMARY

Project No.	Project Title	Agency	Latest Appr. Total	Est. Cost to 6/30/06	Est. Cost in FY 2006	Est. Cost in FY2007	Completion Date	Expected Draft Final Report
SPR-2415	Mechanistic Evaluation of Rubblized PCC Pavements	INDOT	20,000	0	20,000	20,000	12/31/04	08/31/04
SPR-2417	Performance of Indiana's Superpave HMA Mixtures	JTRP	76,355	65,421	1,500	9,000	09/30/06	05/31/06
SPR-2419	Performance Evaluation of Ultra-Thin White Topping Using Full Scale Accelerated Pavement Testing	JTRP	224,390	127,149	21,718	50,000	03/31/07	10/31/06
SPR-2454	Snow and Ice Removal and Anti-Icing Synthesis Study	JTRP	58,436	58,436	500	0	12/31/06	12/31/06
SPR-2455	Constructed Wetlands for INDOT Rest Stop Wastewater Treatment: Proof of Concept Research	JTRP	95,000	76,301	28,000	25,000	08/31/09	04/30/09
SPR-2456	Hydrology of Natural and Constructed Wetlands	JTRP	380,000	232,833	53,451	50,000	08/31/09	04/30/09
SPR-2459	The Problem of Wet Subgrades	JTRP	134,992	131,119	15,338	3,000	07/31/06	03/31/06
SPR-2469	Alternative Land Use Patterns to Minimize Congestion Research and Education Forums	JTRP	223,476	221,555	2,500	1,500	06/30/06	02/28/06*
SPR-2472	Investigation of the Performance of Neat and Modified Asphalt Binders	JTRP	149,965	149,953	0	0	04/30/06	12/31/05
SPR-2487	Constructed Wetland Systems for Wastewater Management	JTRP	85,000	84,826	2,031	174	08/31/09	04/30/09
SPR-2491	Implementation of a Non-Metallic Reinforced Bridge Deck	JTRP	125,352	125,352	0	0	09/30/06	Submitted 12/31/04 Vol. 1
SPR-2494	Fatigue Strength and Evaluation of Sign Structures	JTRP	170,000	170,000	0	0	10/31/05	06/31/05
SPR-2495	Evaluation of Radar (Radio Detection and Ranging) Sensing in Reducing Vehicle-Deer Collisions on the Indiana Toll Road	JTRP	137,178 (402,178 Total Funding)	393,778	34,778	0	06/30/08	06/30/08

*Time extension request in progress.

SPR PART II COST ESTIMATE AND COMPLETION DATE SUMMARY

Project No.	Project Title	Agency	Latest Appr. Total	Est. Cost to 6/30/06	Est. Cost in FY 2006	Est. Cost in FY2007	Completion Date	Expected Draft Final Report
SPR-2591	Determination of Ash Mixture Properties and Construction of Test Embankment (Cost Sharing Study)	JTRP	132,894	130,800	35,471	2,000	08/31/06	04/30/06*
SPR-2630	Response of Laterally Loaded Piles in Multi-Layer Soils	JTRP	154,983	107,415	32,136	35,000	04/30/07	12/31/07
SPR-2632	Interpretation of Cone Penetration Tests in Cohesive Soils	JTRP	100,000	100,000	15,015	0	09/30/06	05/31/06
SPR-2634	Limit States and Load Resistance Design of Slopes and Retaining Structures	JTRP	159,515	123,209	27,506	20,000	06/30/07	02/28/07
SPR-2636	Mitigating the Expansive Behavior of Chemically Treated Soils	JTRP	125,000	68,552	21,695	32,500	05/31/07	01/31/07
SPR-2642	High-Performance Concrete Pavement for Indiana	INDOT	75,000 (275,000 Total Funding)	11,316	2,000	63,684	12/31/06	08/31/06
SPR-2647	Risk Analysis of the INDOT Implementation of the Maturity Concept	JTRP	25,000	24,657	0	0	08/31/06	04/30/06
SPR-2648	Evaluation of Rapid Setting Cement-Based Materials for Patching and Repair (Phase I)	JTRP	95,000	91,748	0	0	12/31/04	08/31/04
SPR-2780	Constructed Wetlands for Remediation of Slag Leachates	JTRP	116,140	116,140	20,957	0	06/14/06	02/14/06
SPR-2783	A Study of Effective Soil Compaction Control of Granular Soils	JTRP	140,339	130,498	26,092	9,500	08/14/06	04/14/06*
SPR-2789	Dowel Bar Retrofit Mix Design and Specification	JTRP	90,000	79,321	16,817	10,000	09/30/06	05/31/06
SPR-2791	Expansion of Concrete Technology to the INDOT Districts and Concrete Industry in Indiana	JTRP	50,000	34,241	0	15,000	12/31/06	08/31/06
SPR-2792	Field Investigation of a Concrete Bridge Deck Designed by the AASHTO LRFD Empirical Method	JTRP	152,325	137,780	22,828	14,000	12/31/06	08/31/06

*Time extension request in progress.

SPR PART II COST ESTIMATE AND COMPLETION DATE SUMMARY

Project No.	Project Title	Agency	Latest Appr. Total	Est. Cost to 6/30/06	Est. Cost in FY 2006	Est. Cost in FY2007	Completion Date	Expected Draft Final Report
SPR-2793	Long-Term Effects of Super Heavy-Weight Vehicles on Bridges	JTRP	240,000	226,247	32,815	13,753	10/31/06	06/30/06
SPR-2813	Validation of NCAT Structural Test Track Experiment Using INDOT APT Facility	JTRP	1,129,530	954,628	89,013	170,000	12/31/06	08/31/06
SPR-2851	Corridor Mapping Using Aerial Lidar Techniques	JTRP	150,000	121,714	37,782	26,000	08/10/06	04/10/06
SPR-2852	Wireless Communication Projects	JTRP	149,774	76,309	10,402	30,000	04/30/07	12/31/06
SPR-2853	Assessment and Selection of Storm Water BMPs for Highway Construction, Retrofitting, and Maintenance	JTRP	300,000	298,534	35,407	1,500	06/30/06	02/28/06*
SPR-2854	Deriving the Cost Impacts of Indiana's Storm Water Rule 13 on INDOT Maintenance Facility Operations	JTRP	150,000	125,108	42,632	20,000	12/31/06	08/31/06
SPR-2855	Mechanically Stabilized Earth Wall Abutments for Bridge Support	JTRP	124,952	93,070	12,242	30,000	04/30/07	12/31/06
SPR-2856	Assessment of Axially-Loaded Pile Dynamic Design Methods and Review of INDOT Axially-Loaded Pile Design Procedure	JTRP	200,000	65,853	20,258	115,000	08/31/07	04/30/07
SPR-2857	Tire Shred Backfill in Mechanically Stabilized Earth Wall Applications	JTRP	95,000	54,874	27,463	20,000	10/31/07	06/30/07
SPR-2859	Factors in Debris Accumulation at Bridge Crossings	JTRP	101,715	100,180	20,100	600	09/30/06	05/31/06
SPR-2860	Update Commodity Flow Model – Freight Forecast – Truck and Rail	JTRP	154,230	138,376	33,187	15,854	08/31/06	04/30/06
SPR-2861	Economic Development Effects of INDOT Transportation Projects	JTRP	125,000	79,956	49,710	50,000	04/30/07	12/31/06

*Time extension request in progress.

SPR PART II COST ESTIMATE AND COMPLETION DATE SUMMARY

Project No.	Project Title	Agency	Latest Appr. Total	Est. Cost to 6/30/06	Est. Cost in FY 2006	Est. Cost in FY2007	Completion Date	Expected Draft Final Report
SPR-2862	Determining the Binder Content of Hot Mix Asphalt Containing Dolomitic Aggregates Using the Ignition Oven	JTRP	100,000	70,849	24,523	25,000	08/31/06	04/30/06
SPR-2863	Saw-Cutting Guidelines for Concrete Pavements: Examining the Requirements for Time and Depth of Saw-Cutting	JTRP	100,000	81,664	35,070	15,000	02/28/07	10/31/06
SPR-2864	Optimization of Mixture Properties for Concrete Pavement	JTRP	120,000	72,527	39,004	25,000	12/31/06	08/31/06
SPR-2865	Investigation of Coarse Aggregate Strength for Use in Stone Matrix Asphalt	JTRP	80,000	80,000	28,282	0	12/31/05	Submitted 04/17/06
SPR-2866	Specifications for Flowable Fill in Indiana	JTRP	72,500	72,500	28,879	0	06/30/06	06/30/06
SPR-2867	Earthquake Resistance of Integral Bridges	JTRP	225,000	91,860	60,987	60,000	12/31/07	08/31/07
SPR-2868	Training for Load and Resistance Factor Design	JTRP	110,000	101,044	13,439	8,000	06/24/06	06/24/06
SPR-2869	Instrumented Intersection in Noblesville, Indiana	JTRP	150,000	123,803	77,892	25,000	12/31/06	Submitted 02/07/06
SPR-2870	Cost Effectiveness Analysis of Ramp Metering and High Occupancy Vehicle Facilities: A Synthesis Study	JTRP	50,000	50,000	25,631	0	02/14/06	Submitted 02/07/06
SPR-2872	Synthesis of Best Practices in Transportation Security	JTRP	146,927	146,927	27,509	5,500	10/31/06	06/30/06
SPR-2874	Primary Emergency Route for Transportation Security	JTRP	100,000	100,000	25,071	0	05/31/06	01/31/06
SPR-2875	Safety-Conscious Planning in Indiana – Predicting Safety Benefits in Corridors	JTRP	89,500	79,103	19,974	10,000	08/17/06	04/17/06*

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SPR PART II COST ESTIMATE AND COMPLETION DATE SUMMARY

Project No.	Project Title	Agency	Latest Appr. Total	Est. Cost to 6/30/06	Est. Cost in FY 2006	Est. Cost in FY2007	Completion Date	Expected Draft Final Report
SPR-2910	Annual Motor Oil Usage Reduction and Engine Life Extension Through Bypass and Full Flow Bypass Oil Filtration for INDOT Heavy Duty Vehicles	JTRP	58,642	58,642	25,240	0	07/31/06	07/31/06
SPR-2911	High-Performance Concrete Bridge Decks: A Fast-Track Implementation Study	JTRP	203,697	169,766	37,219	35,000	12/31/06	08/31/06
SPR-2922	Automated Vehicle Location (AVL) for Road Condition Reporting	JTRP	111,263	81,069	34,985	25,000	07/31/07	03/31/07
SPR-2923	Implementation of Warranty Clauses for Steel Bridge Painting Contracts	JTRP	89,629	64,950	18,866	12,000	12/31/09	08/31/09
SPR-2925	Highway Mortality (Roadkill) Reduction of Terrestrial Vertebrates	JTRP	158,854	158,854	78,214	0	12/31/06	08/31/06
SPR-2927	Efficacy of Incentive Structures for Environmental Protection in Road Construction	JTRP	30,000	30,000	15,400	0	12/31/05	12/31/05
SPR-2928	Advanced Compaction Quality Control	JTRP	28,107	20,826	20,826	7,000	07/31/06	03/31/06
SPR-2930	A Method for Accounting for Pile Setup and Relaxation in Pile Design and Quality Assurance	JTRP	100,000	10,136	10,136	45,000	07/31/07	03/31/07
SPR-2931	Use of Micropiles for Foundations for Transportation Projects	JTRP	100,000	54,311	35,747	40,000	07/31/07	03/31/07
SPR-2932	Statistical Analysis of Indiana Rainfall Data	JTRP	90,000	88,323	52,484	1,000	12/31/06	Submitted 05/01/06
SPR-2933	A Truck-Mounted Scour Inspection System for INDOT	JTRP	183,339	24,415	24,415	95,000	12/31/06	08/31/06
SPR-2934	Alternatives to Fuel Tax	JTRP	100,000	66,539	48,833	35,000	01/14/07	09/30/06

*Time extension request in progress.

SPR PART II COST ESTIMATE AND COMPLETION DATE SUMMARY

Project No.	Project Title	Agency	Latest Appr. Total	Est. Cost to 6/30/06	Est. Cost in FY 2006	Est. Cost in FY2007	Completion Date	Expected Draft Final Report
SPR-2935	Development of Standards for Conducting an Origin-Destination Study	JTRP	99,328	81,525	49,106	5,000	06/30/06	Submitted 02/07/06
SPR-2936	Investigating the Feasibility of Integration Pavement Friction and Texture Depth Data in Modeling for INDOT PMS	JTRP	30,000	8,551	8,551	20,000	05/31/07	01/31/07
SPR-2938	Materials Characterization for AASHTO 200x Design Guide	INDOT	150,000	0	0	150,000	12/31/07	08/31/07
SPR-2939	Long-Term Performance of a Porous Friction Course	JTRP	80,000	16,823	10,015	25,000	09/30/08	05/31/08
SPR-2940	Synthesis Study: Mechanistic Evaluation of Composite Pavement Design	INDOT	25,000	25,000	25,000	25,000	12/31/06	08/31/06
SPR-2941	Modifying the Selection Process of Concrete Mixture Proportions for INDOT	JTRP	100,000	73,668	49,811	20,000	12/31/06	08/31/06
SPR-2942	Fatigue Strength of Steel Bridge Members with Intersecting Welds	JTRP	175,000	86,267	55,759	55,000	08/15/07	04/15/07
SPR-2943	Evaluation of Fiber-Reinforced Polymer Decks for Bridge Rehabilitation	JTRP	150,000	58,548	58,548	35,000	05/31/08	01/31/08
SPR-2944	Experimental Evaluation and Implementation of Post-Tensioning in Concrete Bridge Decks	JTRP	125,000	93,1554	30,175	50,000	07/31/06	03/31/06*
SPR-2946	Blind Pedestrians and their Ability to Navigate Indiana Intersections – a Review of the Technology Available for Audible Signals	JTRP	24,969	24,601	12,917	350	09/30/36	05/31/06
SPR-2947	Effective and Robust Coordination of Traffic Signals on Arterial Streets	JTRP	67,729	52,832	25,918	12,000	09/14/06	05/14/06
SPR-2948	Dynamic Message Signs on Indiana Highways – Guidelines for Message Content and Deployment	JTRP	52,162	45,021	13,339	5,000	06/14/06	02/28/06*

*Time extension request in progress.

SPR PART II COST ESTIMATE AND COMPLETION DATE SUMMARY

Project No.	Project Title	Agency	Latest Appr. Total	Est. Cost to 6/30/06	Est. Cost in FY 2006	Est. Cost in FY2007	Completion Date	Expected Draft Final Report
SPR-2949	Raised Pavement Marking Effectiveness and Criteria for Placement (Synthesis Study)	JTRP	25,000	24,457	21,032	500	08/31/06	Submitted 05/01/06
SPR-2950	Risk Assessment of Various Median Treatments of Rural Interstates	JTRP	120,000	109,561	55,745	10,000	12/14/06	08/14/06
SPR-2951	Expert System to Support Site Investigation for Safety Improvement	JTRP	75,000	65,429	26,334	10,000	10/31/06	06/30/06
SPR-2952	Merging ITS and Smart Infrastructure Technology with Transportation Security	JTRP	100,000	55,992	47,810	30,000	12/31/06	08/31/06
SPR-2953	Investigation of Factors Affecting the Improvement of Clay with Ground Blast Furnace Slag	JTRP	39,884	12,320	13,320	35,000	02/28/07	10/31/06
SPR-2954	Mock Drill Prototype for Transportation Security	JTRP	106,197	81,555	32,231	25,000	12/31/06	08/31/06
SPR-2981	Creation of a Committed Johnson Grass Research Test Area and an Implementation Study	JTRP	71,300	21,062	11,538	12,000	07/31/09	03/31/09
SPR-2982	Implementation of Instructional Materials for Bridge Deck Construction Inspection	JTRP	7,500	6,832	6,361	1,000	01/14/07	01/14/07
SPR-2985	Implementation Study: Surface Texture and Friction Characteristics on Tined Concrete Pavements	JTRP	10,000	8,597	6,097	1,200	06/30/06	06/30/06
SPR-2986	Innovative Remediation Technology Implementation Plan for the Crawfordsville INDOT ROW Site	JTRP	150,000	70,025	70,025	70,000	06/30/07	02/28/07
SPR-2987	Nighttime Maintenance Safety	JTRP	61,386	20,352	20,352	30,000	08/14/06	08/14/06
SPR-3000	Durability and Retroreflectivity of Pavement Markings (Synthesis Study)	JTRP	10,000	0	0	10,000	05/31/07	01/31/07

*Time extension request in progress.

SPR PART II COST ESTIMATE AND COMPLETION DATE SUMMARY

Project No.	Project Title	Agency	Latest Appr. Total	Est. Cost to 6/30/06	Est. Cost in FY 2006	Est. Cost in FY2007	Completion Date	Expected Draft Final Report
SPR-3002	Applicability of Borman Decision Tree ITS Management Tool to Other Expressway Systems	JTRP	125,000	29,682	29,682	35,000	02/28/07	10/31/06
SPR-3003	Evaluating the Re-release of Mercury from Recycled Coal Combustion Residues: A Synthesis Study	JTRP	30,000	5,180	5,180	20,000	12/31/06	08/31/06
SPR-3005	Classification of Organic Soils	JTRP	70,000	35,420	35,420	20,000	10/31/06	06/30/06
SPR-3006	Design and Application of Helical (Screw) Piles	JTRP	101,038	44,393	44,393	25,000	09/30/08	05/31/08
SPR-3007	Post-Construction Evaluation of Lime-Treated Soils	JTRP	60,000	42,450	42,450	15,000	01/31/07	09/30/06
SPR-3008	Evaluation of In-Situ Stiffness of Subgrade by Resilient and FWD Modulus	INDOT	30,000	15,000	15,000	15,000	12/31/07	08/31/07
SPR-3009	Use of DCPT and Clegg Hammer for Quality Control/Quality Assurance of Roadway Compaction and Construction	JTRP	81,936	5,763	5,763	25,000	06/30/08	02/28/08
SPR-3010	WWW-Based Watershed Delineation and Characterization System	JTRP	90,000	10,554	10,554	50,000	12/31/07	08/31/07
SPR-3011	Bendway Weirs: An Environmentally-Sensitive Response to Stream Stability Problems at Bends	JTRP	101,950	26,099	26,099	45,000	12/31/07	08/31/07
SPR-3012	Development of a Framework for Ex Post Facto Evaluation of Transportation Projects and Programs in Indiana	JTRP	200,000	15,000	15,000	50,000	10/14/08	06/14/08
SPR-3013	Updating and Enhancements of the Indiana Bridge Management System (IBMS)	JTRP	200,000	43,043	43,043	55,000	04/14/08	12/14/08

**Time extension request in progress.*

SPR PART II COST ESTIMATE AND COMPLETION DATE SUMMARY

Project No.	Project Title	Agency	Latest Appr. Total	Est. Cost to 6/30/06	Est. Cost in FY 2006	Est. Cost in FY2007	Completion Date	Expected Draft Final Report
SPR-3015	A Prescriptive Analysis of the Indiana Coal Transportation Infrastructure	JTRP	25,000	0	0	25,000	09/30/06	09/30/06
SPR-3016	Investigation of Premature Distress Around Joints in PCC Pavement	JTRP	34,915	5,041	5,041	30,000	11/14/06	07/14/06
SPR-3017	Continued Monitoring of Indiana's SPS9-A Test Site	JTRP	74,907	8,500	8,500	12,000	12/31/09	08/31/09
SPR-3018	Evaluation of Recycled Asphalt Pavement for Surface Mixtures	JTRP	99,995	8,371	8,371	15,000	05/31/08	01/31/08
SPR-3019	Field Trails of Rapid Setting Repair Materials	JTRP	84,988	7,918	7,918	12,000	12/31/10	08/31/10
SPR-3020	Updating Physical and Chemical Characteristics Data for Fly Ash in Concrete	JTRP	102,161	6,777	6,777	40,000	12/31/07	08/31/07
SPR-3021	PCC Properties to Support W/C Determination for Durability	JTRP	80,000	8,127	8,127	40,000	12/31/07	08/31/07
SPR-3022	Training for Load and Resistance Factor Design (LRFD) of Substructures	JTRP	150,000	22,156	22,156	60,000	04/30/08	12/31/07
SPR-3023	Evaluation and Verification of Bridge LRFD Design and Analysis Software for INDOT	JTRP	150,000	20,000	20,000	50,000	04/30/08	12/31/07
SPR-3024	Innovative Bridge Construction Program: Implementation of Full-Depth Bridge Deck Panels in Indiana	JTRP	125,000	72,720	72,720	30,000	06/30/08	02/28/08
SPR-3025	Synthesis Study: Heat Treatment and Its Applications for Rehabilitating Steel Bridges in Indiana	JTRP	35,000	8,089	8,089	20,000	04/30/07	12/31/06
SPR-3026	Implementation of Station Health Monitoring Procedures for ITS Sensors	JTRP	100,000	27,226	27,226	50,000	09/30/07	05/31/07

*Time extension request in progress.

SPR PART II COST ESTIMATE AND COMPLETION DATE SUMMARY

Project No.	Project Title	Agency	Latest Appr. Total	Est. Cost to 6/30/06	Est. Cost in FY 2006	Est. Cost in FY2007	Completion Date	Expected Draft Final Report
SPR-3028	Risk Management Assessment of Upgrading Standardizing Guardrail	INDOT	20,000	0	6,000	14,000	03/31/08	11/30/07
SPR-3029	Assessment and Enhancement of Awareness Training and Security	JTRP	125,000	34,111	34,111	55,000	12/31/07	08/31/07
SPR-3030	Influence of Speed on Safety	JTRP	100,000	41,877	41,877	30,000	08/14/07	04/14/07
SPR-3032	Bicycle Safety Feasibility Study	JTRP	50,000	31,384	31,384	18,000	08/14/06	04/14/06*
SPR-3049	INDOT and Indiana Supply Chains	JTRP	51,000	49,348	49,348	0	05/31/06	06/30/06
SPR-3050	INDOT Customer Service	JTRP	88,123	83,822	83,822	0	06/30/06	06/30/06
SPR-3051	Development of Integrated Land-Use Transportation Model for Indiana	JTRP	192,811	26,765	26,765	150,000	09/14/07	05/14/07
SPR-3060	Critical Route Network for Earthquake Response and Dynamic Routes Analysis	JTRP	25,000	20,551	20,551	3,000	05/31/06	05/31/06
SPR-3061	Safety Enhancement of the INDOT Network Pavement Friction Testing Program	INDOT	10,000	0	0	10,000	04/30/07	12/31/06
SPR-3062	Development of a Structural Index as Integral Part of the Overall Pavement Quality in the INDOT PMS	JTRP	46,979	15,000	15,000	25,000	09/30/08	05/31/08
SPR-3063	Computation of Indiana Flood Discharges	JTRP	54,044	54,044	54,044	0	06/30/06	06/30/06
SPR-3085	Worker Injury Prevention Strategies	JTRP	75,000	5,000	5,000	40,000	04/14/08	12/31/07
SPR-3113	Development of a Comprehensive Highway Technician Training Program for INDOT Personnel	JTRP	100,000	15,000	15,000	40,000	04/14/08	12/31/07
SPR-3115	Project Management Training for INDOT	JTRP	100,000	5,000	5,000	40,000	04/14/08	12/31/07
FHWA-2004001	Implementation of a Non-Metallic Reinforced Bridge Deck: Phase II	JTRP	70,000	69,000	12,585	1,000	09/30/06	05/31/06

*Time extension request in progress.

SPR PART II COST ESTIMATE AND COMPLETION DATE SUMMARY

Project No.	Project Title	Agency	Latest Appr. Total	Est. Cost to 6/30/06	Est. Cost in FY 2006	Est. Cost in FY2007	Completion Date	Expected Draft Final Report
FHWA-2004024	Deck Replacement - Use of Extra Coating Thickness Epoxy-Coated Bars	JTRP	180,000	163,826	25,854	16,000	07/31/07	03/31/07
FHWA-9979022	Design, Construction, and Evaluation of Fiber Reinforced Polymer Decks for Bridge Rehabilitation	JTRP	165,000	146,385	44,059	19,000	11/30/06	07/31/06*
PUR-2990	Mobile Weather and Road Condition Reporting	JTRP	75,000	55,776	55,776	19,000	01/31/07	09/30/06

*Time extension request in progress.

PART II SUMMARY OF PLANNED STUDIES, FISCAL YEAR 2007

State Project No.	Title of Proposed Studies - Planned	Proposed Research Agency	Estimated Total Cost	Study Length (Months)	SRP* Designation	Priority
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Construction Management and Contract Administration

SPR-3080	Contract Time Optimization Based on Acceleration, User Costs and Economic Impact Consideration	JTRP	\$100,000	24	CMC-1	1
SPR-3081	3D As-Built Data for Utilities	JTRP	\$150,000	24	CMC-2	2
SPR-3082	Acquisition and Analysis of Earthwork Pay Quantity Verification	JTRP	\$35,000	18	CMC-3	3
SPR-3083	Material Delivery Data	JTRP	\$30,000	12	CMC-6	6
SPR-3084	Construction Costs - Using Federal Funds versus Local Funds	JTRP	\$30,000	12	CMC-9	9

District and Highway Operations

SPR-3086	Investigation of Effective Use of Warning Lights on Vehicles	JTRP	\$50,000	24	DHO-2	3
SPR-3087	Pavement Crack Sealing/Chip Sealing Technology	INDOT	\$50,000	18	DHO-40	4
SPR-3088	Evaluation of Surface Treatments	INDOT	\$50,000	18	DHO-20	5

ITS and Traffic Engineering

SPR-3089	Real-Time Performance Measures at Signalized Intersections	JTRP	\$150,000	24	ITE-2	1
SPR-3090	Integration of Freeways and Arterials for Combined Traffic Management Strategies	JTRP	\$125,000	24	ITE-1	2

*Strategic Research Plan

PART II SUMMARY OF PLANNED STUDIES, FISCAL YEAR 2007

State Project No.	Title of Proposed Studies - Planned	Proposed Research Agency	Estimated Total Cost	Study Length (Months)	SRP* Designation	Priority
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Pavement Engineering and Materials Management

SPR-3091	Investigation of Anti-Icing Chemicals and Interactions	INDOT/JTRP	\$150,000	24	PMM-11	1
SPR-3092	Indiana Pavement Preservation Program	INDOT/JTRP	\$150,000	24	PMM-14	2
SPR-3093	PCCP Performance Relative to Permeability	INDOT/JTRP	\$150,000	24	PMM-27	3

Planning, Urban Corridor, Multimodal and Environmental Services

SPR-3094	Effects of Bypasses	JTRP	\$100,000	24	PME-38/34	1
SPR-3095	Origin-Destination Planning Tools for District Offices	JTRP	\$70,000	24	PME-27	2
SPR-3096	INDOT/MPO Coordination	JTRP	\$40,000	12	PME-32	5
SPR-3097	Multi-Jurisdiction Congestion Management	JTRP	\$40,000	12	PME-31	6

Policy, Financing, Forecasting and Economic Development

SPR-3098	Economic Development Measures	JTRP	\$50,000	12	PED-1	1
SPR-3099	Indiana Freight Network Reliability and Security	JTRP	\$150,000	24	PED-2	2
SPR-3100	Forecasting of Highway Revenues under Various Options	JTRP	\$100,000	24	PED-4	4

Safety, Roadway Safety and Transportation Security

SPR-3101	Methods of Safety Improvements at Coordinated Signals	JTRP	\$80,000	24	STS-B-1	2
SPR-3102	Safety and Operational Impacts of Alternative Intersections	JTRP	\$120,000	24	STS-B-7	3
SPR-3103	Knowledge-Based Tool for Investigating High-Crash Intersections	JTRP	\$80,000	24	STS-B-2	4

*Strategic Research Plan

PART II SUMMARY OF PLANNED STUDIES, FISCAL YEAR 2007

State Project No.	Title of Proposed Studies - Planned	Proposed Research Agency	Estimated Total Cost	Study Length (Months)	SRP* Designation	Priority
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Structural and Geotechnical Engineering

SPR-3104	Control and Repair of Bridge Deck Cracking	JTRP	\$150,000	24	SGE-20(S)	1
SPR-3105	Effects of Realistic Heat Straightening Repairs on Steel Bridge Beam	JTRP	\$155,000	24	SGE-9(S)	2
SPR-3106	Geotechnical Design Based on INDOT CPT and Pressuremeter Test	INDOT/JTRP	\$80,000	24	SGE-18(G)	3
SPR-3107	Chemical and Bio-Chemical Clogging of Underdrain Geotextile Filters	JTRP	\$45,000	18	SGE-6(G)	4
SPR-3108	Development of Geotechnical LRFD Framework for Use in Various Design Problems	INDOT/JTRP	\$180,000	36	SGE-19(G)	5
SPR-3109	Building on Collapsible Soils	JTRP	\$75,000	24	SGE-7(G)	6

System Performance, Monitoring and Analysis

SPR-3110	Tradeoff Analysis Methodology for Asset Management	INDOT/JTRP	\$175,000	36	SPM-1	1
SPR-3111	Pavement Condition Data Collection Protocols, Quality (QC/QA) and Reliability	INDOT/JTRP	\$150,000	24	SPM-2	2
SPR-3112	Risk Assessment and Vulnerability	JTRP	\$50,000	12	SPM-6	3

Technical Training Support and Emerging Technology

SPR-3114	Best Practices for Pavement Rehabilitation Preventative Maintenance and Pavement Preservation	INDOT	\$35,000	12	TTE-12	2
SPR-3116	Training Need Assessment	JTRP	\$225,000	24	TTE-2	4

*Strategic Research Plan

PART II, FISCAL YEAR 2007 SUMMARY OF ESTIMATED COSTS			
JULY 1, 2006 TO JUNE 30, 2007	FEDERAL SHARE	STATE SHARE	TOTAL
SUBTOTAL FOR APPROVED CONTINUING STUDIES ^(a)	\$ 4,261,947	\$ 1,065,487	\$ 5,327,434
AVAILABLE BALANCE FOR PLANNED STUDIES	\$ 2,696,000	\$ 674,000	\$ 3,370,000
TRB Research Correlation Service (TRIS) – (100% Federal)	\$ 168,590	\$ 0	\$ 168,590
NATIONAL COOPERATIVE HIGHWAY RESEARCH PROJECT (NCHRP) ESTIMATE (100% Federal)	\$ 841,073	\$ 0	\$ 841,073
NATIONAL FHWA & AASHTO POOLED FUND STUDIES (100% Federal)	\$ 500,000	\$ 0	\$ 500,000
GRAND TOTAL, PROJECT SPR-PL-1(404), PART II	\$ 8,467,610	\$ 1,739,487	\$ 10,207,097^(b)

(a) Includes continuing studies, administration line items and JTRP funding. Total contract continuing study budgets are encumbered at the time of approval.

(b) Includes estimated new FY 2007 funding of \$ (\$820,343 State, \$3,281,373 Federal)

ESTIMATED NATIONAL/REGIONAL POOLED FUND STUDY FUNDING FOR FISCAL YEAR 2007

Project Title	Project Number	INDOT Study Advisory Representative	Proposed FY 2007 Funding (\$)
Various Proposed Projects INDOT has expressed interest in	To be determined	To be assigned	\$150,000 (100% Federal)
Materials and Construction Optimization for Prevention of Premature Pavement Distress in PCC Pavement	TPF-5(066)	Tommy Nantung	\$15,000 (100% Federal)
Training in Highway Construction Activities	TPF-5(046)	Ron Walker	\$20,000 (100% Federal)
AURORA Road and Weather Information System	SPR-3(042)	Dennis Belter	\$25,000 (100% Federal)
Computer-Based, Self-Operating, Interactive Training System on Anti-Icing/Road Weather Information Systems (AI/RWIS)	TPF-5(009)	Dennis Belter	\$30,000 (100% Federal)
Base Funding for the North Central Superpave Center	TPF-5(021)	Dave Andrewski	\$25,000 (100% Federal)
Evaluation of the Safety Edge	TPF-5(097)	Todd Shield	\$15,000 (100% Federal)
Maintenance Decision Support System	TPF-5(054)	Dennis Belter	\$50,000 (100% Federal)
Evaluation of Low Cost Safety Improvement	TPF-5(099)	John Nagle	\$30,000 (100% Federal)
FWD Calibration Center	TPF-5(039)	Tommy Nantung	\$10,000 (100% Federal)
Guidelines for Evaluation of Remaining Fatigue Life of Existing Steel Bridges	TBA	John Jordan	\$20,000 (100% Federal)
Clear Roads	TPF-5(092)	Dennis Belter	\$25,000 (100% Federal)

Mid-West Pavement Preservation	TPF-5(112)	Mike Bowman	\$15,000 (100% Federal)
Upper Mid-West Freight Corridor Study, Phase II	TPF-5(118)	Larry Goode	\$20,000 (100% Federal)
Intelligent Compaction Technology for Embankment, Subgrade Soils, Aggregate Base, and Asphalt Materials	TPF-5(128)	Dave Andrews	\$25,000 (100% Federal)
Impact of New Seismic Design Provisions on Bridges in Mid-America: A Pilot Pooled Funds Project	TBA	John Jordan	\$25,000 (100% Federal)

TOTAL ESTIMATED NATIONAL POOLED FUND STUDY FUNDING FOR FY 2007	\$500,000 (100% Federal)
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STUDIES FUNDED WITH 100% FEDERAL FUNDS FOR FISCAL YEAR 2007

Project Number	Study Title	Total Project Cost	Project Completion Date	FTC
DTFH-7196(070)	Warranted Asphalt Pavement	\$25,662	August 30, 2001	Lee Gallivan
RECH001 SPR-2642	High Performance Concrete Pavement	\$200,000	December 31, 2006	Lee Gallivan
2004(024) FHWA-2004024	Innovative Bridge Research and Construction: Thicker Epoxy Coated Bars for Bridge Deck	\$ 200,000	June 28, 2006	Keith Hoermschemeyer
9979(022) FHWA-9979022	Innovative Bridge Research and Construction: Fiber Reinforced Polymer Bridge Deck	\$ 475,000	May 31, 2007	Keith Hoermschemeyer
0003(042) or IBRC001 FHWA-2004001	Innovative Bridge Research and Construction: Fiber Reinforced Polymer Rebars for Bridge Deck	\$ 75,000	June 30, 2005	Keith Hoermschemeyer
TBA (FHWA) SPR-3024	Innovative Bridge Research and Construction: Rapid Renewal of Bridge Deck	\$ 300,000	June 30, 2008	Keith Hoermschemeyer
TBA (FHWA)	Pre-Cast Concrete Pavement	\$ 200,000	June 30, 2008	Lee Gallivan
TPF-5(021)	Base Funding for the North Central Superpave Center (Pooled Fund Study, Indiana is the Lead State)	\$225,000	Continuous	Lee Gallivan