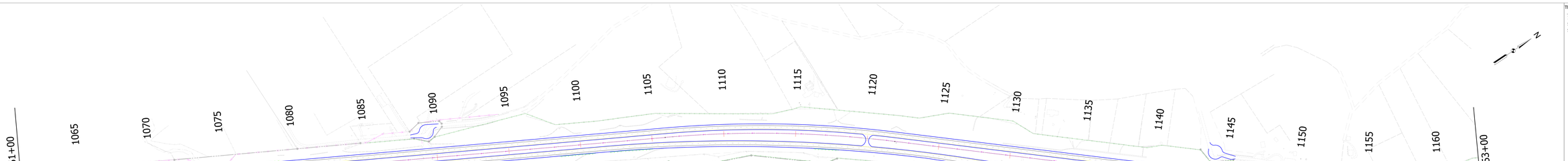
LEGEND:

- OVERHEAD SIGN BRIDGE
- OVERHEAD CANTILEVER
- LOW MAST LIGHTING LEVELS/ LOCATIONS
- HIGH MAST LIGHTING LEVELS/ LOCATIONS
- BURIED SINKS
- SINKHOLES
- SINKING STREAMS



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

LAYOUT MAP

DESIGN SPEED:

MAINLINES	- 70 MPH
RAMPS	- 50 MPH
	- 45 MPH
CROSS STREETS	- 35 MPH

FUNCTIONAL CLASS: RURAL INTERSTATE

TERRAIN: ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

SIGNING, MARKING LIGHTING AND SIGNALS

SUBSECTIONS 5E & 5F
ROLL PLOT
STA. 1061+00 TO STA. 1163+00

RECOMMENDED FOR APPROVAL			
	DESIGN ENGINEER		DATE
DESIGNED	N. RETNOFF	DRAWN	N. RETNOFF
APPROVED		CHECKED	S. DOBURN

DESIGNATION	HORIZONTAL SCALE	DWG NO.	SHT NO.
	1" = 100'	ROLLPLOT	21 OF 21
PROJECT	VERTICAL SCALE	REV. NO.	DWG DATE
	N/A		1/4/2019

ROLL PLOT NO.
73 OF 118

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Signing, Marking, Lighting and Signals

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

LAYOUT MAP

DESIGN SPEED:

MAINLINES	- 70 MPH
RAMPS	- 50 MPH
	- 45 MPH
CROSS STREETS	- 35 MPH

FUNCTIONAL CLASS: RURAL INTERSTATE

TERRAIN: ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

SIGNING, MARKING LIGHTING AND SIGNALS

SUBSECTIONS 5E & 5F
ROLL PLOT
STA. 1061+00 TO STA. 1163+00

RECOMMENDED FOR APPROVAL			
	DESIGN ENGINEER		DATE
DESIGNED	N. RETNOFF	DRAWN	N. RETNOFF
APPROVED		CHECKED	S. DOBURN

DESIGNATION	HORIZONTAL SCALE	DWG NO.	SHT NO.
	1" = 100'	ROLLPLOT	21 OF 21
PROJECT	VERTICAL SCALE	REV. NO.	DWG DATE
	N/A		1/4/2019

ROLL PLOT NO.
73 OF 118

LEGEND:

- OVERHEAD SIGN BRIDGE
- OVERHEAD CANTILEVER
- LOW MAST LIGHTING LEVELS/ LOCATIONS
- HIGH MAST LIGHTING LEVELS/ LOCATIONS
- BURIED SINKS
- SINKHOLES
- SINKING STREAMS

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

LAYOUT MAP

DESIGN SPEED:

MAINLINES	- 70 MPH
RAMPS	- 50 MPH
	- 45 MPH
CROSS STREETS	- 35 MPH

FUNCTIONAL CLASS: RURAL INTERSTATE

TERRAIN: ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

SIGNING, MARKING LIGHTING AND SIGNALS

SUBSECTION 5F

ROLL PLOT

STA. 1163+00 TO STA. 1268+00

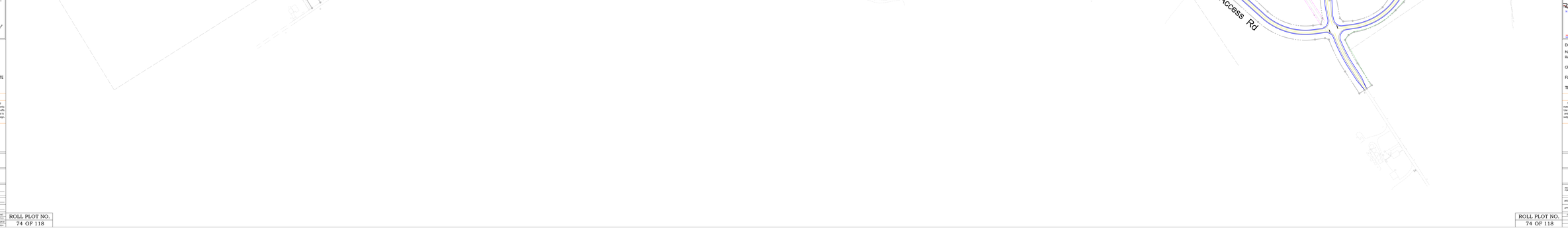
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: N. PETROFF	DRAWN: N. PETROFF	
APPROVED:	CHECKED: S. SUBLER	

DESIGNATION	HORIZONTAL SCALE	2982 REF.	SHT. NO.
	1" = 100'	ROLLPLOT	12 OF 21
PROJECT	VERTICAL SCALE	ADV. NO.	2982.0470
	N/A		1.0.0.0014

ROLL PLOT NO. 74 OF 118

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Signing, Marking, Lighting and Signals



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

LAYOUT MAP

DESIGN SPEED:

MAINLINES	- 70 MPH
RAMPS	- 50 MPH
	- 45 MPH
CROSS STREETS	- 35 MPH

FUNCTIONAL CLASS: RURAL INTERSTATE

TERRAIN: ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

SIGNING, MARKING LIGHTING AND SIGNALS

SUBSECTION 5F

ROLL PLOT

STA. 1163+00 TO STA. 1268+00

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: N. PETROFF	DRAWN: N. PETROFF	
APPROVED:	CHECKED: S. SUBLER	

DESIGNATION	HORIZONTAL SCALE	2982 REF.	SHT. NO.
	1" = 100'	ROLLPLOT	12 OF 21
PROJECT	VERTICAL SCALE	ADV. NO.	2982.0470
	N/A		1.0.0.0014

ROLL PLOT NO. 74 OF 118

LEGEND:

- OVERHEAD SIGN BRIDGE
- OVERHEAD CANTILEVER
- LOW MAST LIGHTING LEVELS/ LOCATIONS
- HIGH MAST LIGHTING LEVELS/ LOCATIONS
- BURIED SINKS
- SINKHOLES
- SINKING STREAMS

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

LAYOUT MAP

DESIGN SPEED:

MAINLINES	- 70 MPH
RAMPS	- 50 MPH
	- 45 MPH
CROSS STREETS	- 35 MPH

FUNCTIONAL CLASS: RURAL INTERSTATE

TERRAIN: ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

SIGNING, MARKING LIGHTING AND SIGNALS

SUBSECTION 5F

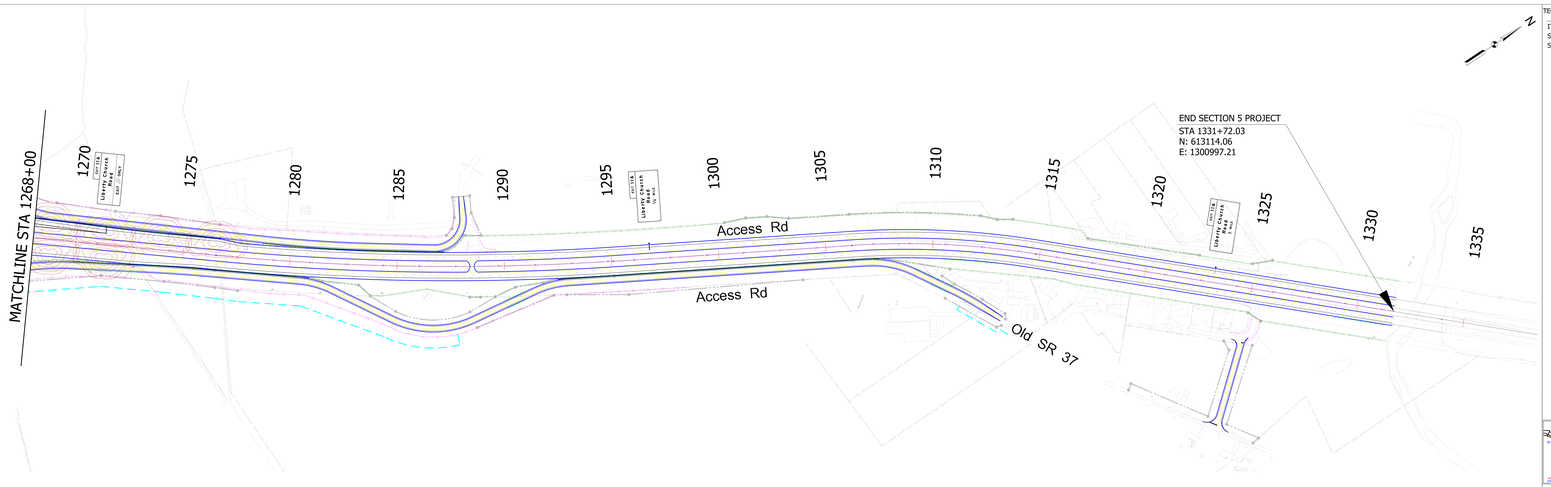
ROLL PLOT

STA. 1268+00 TO STA. 1331+72.03

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: N. PETROFF	DRAWN: N. PETROFF	
APPROVED:	CHECKED: S. DUBURS	

DESIGNATION:	HORIZONTAL SCALE:	2960 NO:	307 NO:
	1" = 100'	ROLLPLOT	13 OF 21
PROJECT:	VERTICAL SCALE:	4DS NO:	2960.00R3
	N/A		5.00.00.R

ROLL PLOT NO. 75 OF 118



TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Signing, Marking, Lighting and Signals

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

LAYOUT MAP

DESIGN SPEED:

MAINLINES	- 70 MPH
RAMPS	- 50 MPH
	- 45 MPH
CROSS STREETS	- 35 MPH

FUNCTIONAL CLASS: RURAL INTERSTATE

TERRAIN: ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

SIGNING, MARKING LIGHTING AND SIGNALS

SUBSECTION 5F

ROLL PLOT

STA. 1268+00 TO STA. 1331+72.03

RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE

DESIGNED: N. PETROFF | DRAWN: N. PETROFF

APPROVED: | CHECKED: S. DUBURS

DESIGNATION: | HORIZONTAL SCALE: | 2960 NO: | 307 NO:
1" = 100' | ROLLPLOT | 13 OF 21
PROJECT: | VERTICAL SCALE: | 4DS NO: | 2960.00R3
N/A | | 5.00.00.R

ROLL PLOT NO. 75 OF 118

LEGEND:

- CORE FOREST
- CAVE RECHARGE AREA
- HISTORICAL RESOURCE
- SURFSPRING RECHARGE AREA
- HAZARDOUS WASTE/SUPERFUND AREA
- ARCHAEOLOGICAL SENSITIVE AREA
- WETLANDS
- LIMIT OF WETLAND SWD AREA. SEE SPECIFICATIONS FOR DETAILS
- EXISTING TREE LINE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- ROCK OUTCROP
- PROTECT TREES IN PLACE
- ABUTMENT, RETAINING, AND SOUND WALLS
- KARST: KARST FEATURE AND FEATURE NUMBER; SINKHOLE (SH-###), CAVE/CAVE ENTRANCE (C-###), SWITCH FEEDING (SF-###), SWALLOWING STREAM (SS-###), SPRING (SP-###)
- KARST SINKHOLE AREA
- KARST BURIED SINKHOLE AREA
- KARST SINKING STREAM AREA

ENVIRONMENTAL:

- WILDLIFE FENCE
- US WATERS PROTECTIVE FENCE AND SIGNS

EROSION AND SEDIMENT CONTROL:

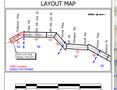
- ROCK CHECK DAM, WOOD CHECK DAM, SEE DETAIL FOR ROCK DAM SPACING
- TEMPORARY SILT FENCE
- TEMPORARY SEDIMENT BASIN
- TRAP — SEDIMENT TRAP #/# (TYP.)
- BERM — ROCK FILTER BERM
- SLOPE — TEMPORARY SLOPE DRAIN/S DRAIN
- DITCH — TEMPORARY SEDIMENT TRAP WITH INTERCEPTOR DITCH
- OUTLET — TEMPORARY OUTLET PROTECTION
- TRANSITION — NUMBER 3 STONE CUT-FILL TRANSITION

* REPRESENTS QUANTITY (EACH) OF ITEM PER CAL NOTES.

NOTES:

1. SEE SHEET ECO ROLLED FOR ALL DETAILS.
2. ALL WATER WAYS AND WETLANDS WITHIN AND ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED.
3. ALL KARST FEATURES SHALL HAVE TEMPORARY SEDIMENT PLACEMENT.
4. EROSION CONTROL BLANKETS SHALL BE PLACED ON ALL SLOPES 3:1 OR STEEPER AND ON ALL SLOPES UNLESS OTHERWISE NOTED. SEE DETAIL SHEET ECO ROLLED.

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

RECONSTRUCTION SA

ROLL PLOT

STA. 215+13.48 TO STA. 277+00

RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE
DESIGNED: RH	DRAWN: JP	
APPROVED:	CHECKED: DS	

DESIGNATION:	HORIZONTAL SCALE:	ZERO ADJ:	ADJ. ADJ:	SHT. NO.
RECONSTRUCTION	1"=100'	0.0 INCHES	0.0 INCHES	77 OF 118
PROJECT:	VERTICAL SCALE:	ZERO:	ADJ. ADJ:	PLOT DATE:
N/A	N/A			7/19/2019

ROLL PLOT NO.
76 OF 118

I-69 Segment 5 - Erosion and Sediment Control and Environmental Mitigation Plan

Approach

Erosion and sediment control is an important and vital component of the I-69 Segment 5 Project (Project). The Project corridor is home to many sensitive and protected environmental features , flora and fauna. Due diligence has been applied to making the erosion and sediment control plan as comprehensive and yet flexible as possible. Building on the efforts already prepared, the Erosion Control (EC) Plan components for Segment 5 of I-69 are being developed to address several project requirements:

- The environmental impact statement (EIS), mitigation requirements
- Technical provisions including Drainage, Environmental, Landscape Architecture, Utilities, Roadway, MOT and others.
- The I-69 Segment 5 record of decision (ROD) FHWA
- Indiana Department of Transportation (INDOT) standard specifications and details,
- Indiana Department of Transportation (INDOT) Standard Manual (INDOT 2013),
- INDOT Design Memorandum No. 10-06 Technical Advisory (January 14, 2010),
- I-69 Section 5 Karst Feature Inventory and 2013 I-69 Section 5 Karst Agreement
- Identification of all on-site contractor use areas, borrow sites and waste sites.
- Requirements of Rule 5 permit from Indiana Department of Environmental Management (IDEM)
- Protection of local water wells and properties
- Staffing with qualified, experienced personnel during all project phases.

Erosion and sediment control consists of a wide range of Best Management Practices (BMPs) to afford the most comprehensive temporary erosion and sediment control in the most timely manner. Built in flexibility allows the application of a "tool box" of EC BMP practices, to address the wide range of specific EC issues. The following Table identifies the BMPs that will be applied during the construction and operations phases of the project.

Table of Types of Erosion and Sediment Control Best Management Practices (BMPs)			
1	Diversion Interceptor	15	Filter Berm
2	Temporary Seeding	16	Filter Sock
3	Permanent Soil or Seed	17	Turbidity Curtain
4	Mulch (hydraulic or bonded fiber mulch)	18	Surface Roughening
5	Straw Mulch (blown/laid)	19	Vegetative Filter Strip
6	Manufactured Surface Protection Products	20	Inlet Protection
7	Check Dam	21	Construction entrance/exit
8	Check Dam, Traversable	22	Concrete Washout
9	Slope Drain	23	Secondary Spill Containment Hazmat Trap
10	Splash Pad	24	Mini-benching of slopes
11	Sediment Trap	25	Dust Palliative
12	Sediment Basin	26	Erosion Control Blanket
13	Detention Pond	27	Karst Features Protection Details
14	Silt Fence	28	Weather Monitoring

Environmental Mitigation

Environmental analyses and evaluations of the I-69 Segment 5 project were documented in a Draft and Final Environmental Impact Statement (EIS) and Record of Decision. As a result of this analysis environmental impacts were identified and defined. To abate the effects of the environmental impacts, mitigation measures were developed. Many of these are implemented during the design and construction phases of the project and are shown on these plans. However, the nature of environmental effects often include non-construction mitigation solutions, such as environmental training programs for staff, which are not shown on these plans but are included in the proposal.

Environmental mitigation items identified on these plans include wildlife fencing to facilitate White Tail Deer crossings at selected bridges, installation of noise barriers, identification of sensitive Karst features and protection of same, protection of individual water wells, water quality testing at springs during construction and for 5 years afterward and several other activities.

Benefits to the Project

The E&SC Plans provides the necessary direction to the contractors during the construction phase, the EC Plan will form the basis of the Stormwater Pollution Protection Plan or SWPPP. The EC Plan is a product of intense and continuous interaction among the various disciplines involved in the Project. For instance, Karst features are addressed in the EC plans for temporary protection and water quality compliance testing, in the Drainage plans for long term protection and in Utility plans where utility relocations involve potential Karst excavation.

Interpretation of Plan requirements will be facilitated by skilled and experienced staff. A Certified Erosion Control Professional (CPESC) will direct the preparation and implementation of the SWPPP In conjunction with the Environmental Compliance Manager (ECM), the CPESC will exercise the authority to stop or redirect construction work as needed to maintain environmental compliance of the EC in accordance with the SWPPP. Erosion control measures will also constitute a principal component of the Environmental Training Program to assure that all staff working on the Project are fully versed in meeting the requirements. The Training will consist of an initial course that will be augmented with planned training updates and special trainings as needed.

LAYOUT MAP

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

RECONSTRUCTION SA

ROLL PLOT

STA. 215+13.48 TO STA. 277+00

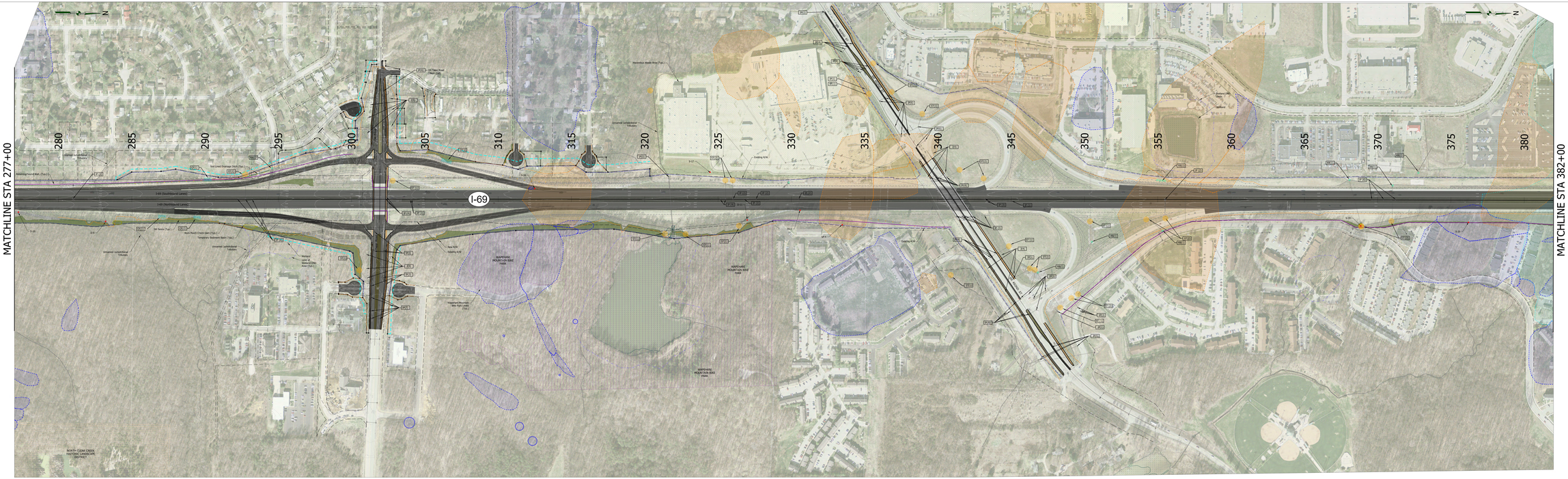
RECOMMENDED FOR APPROVAL: DESIGN ENGINEER DATE

DESIGNED: RH DRAWN: JP

APPROVED: CHECKED: DS

DESIGNATION: RECONSTRUCTION | HORIZONTAL SCALE: 1"=100' | ZERO ADJ: 0.0 INCHES | ADJ. ADJ: 0.0 INCHES | SHT. NO. 77 OF 118

PROJECT: N/A | VERTICAL SCALE: N/A | ZERO: | ADJ. ADJ: | PLOT DATE: 7/19/2019



LEGEND:

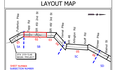
- CORE FOREST
- CAVE RECHARGE AREA
- HISTORICAL RESOURCE
- SURFSPAND RECHARGE AREA
- HAZARDOUS WASTE/SUPERFUND AREA
- ARCHAEOLOGICAL SENSITIVE AREA
- WETLANDS
- LIMIT OF WETLAND (WA) AREA. SEE SPECIFICATIONS FOR DETAILS
- EXISTING TREE LINE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- ROCK OUTCROP
- PROTECT TREES IN PLACE
- ABUTMENT, RETAINING, AND SOUND WALLS
- KARST
- KARST FEATURE AND FEATURE NUMBER
  - SINKHOLE
  - CAVE/CAVE ENTRANCE
  - SWITCH FAILURE
  - SPRING
  - GLOSSING STREAM
  - DISAPPEARING STREAM
- KARST SINKHOLE AREA
- KARST BURIED SINKHOLE AREA
- KARST SINKING STREAM AREA
- ENVIRONMENTAL
- WILDLIFE FENCE
- US WATERS PROTECTIVE FENCE AND SIGNS
- EROSION AND SEDIMENT CONTROL
- TEMPORARY SEDIMENT TRAP (ROCK DAM, SEE DETAIL FOR ROCK DAM SPACING
- TEMPORARY SILT FENCE
- TEMPORARY SEDIMENT BASIN
- ESCP ENTRANCE SCE-EAP
- RFB-1 ROCK FILTER BERM
- SLOPE TEMPORARY SLOPE DRAIN/U-DRAIN
- TEMPORARY SEDIMENT TRAP WITH INTERCEPTOR DITCH
- TEMPORARY VALLEY PROTECTION
- NUMBER 3 STONE CUT-FILL TRANSITION

* REPRESENTS QUANTITY (EACH) OF ITEM PER CALL

NOTES:

1. SEE SHEET ECE-ROLLS1 FOR ALL DETAILS.
2. ALL WATER GAPS AND WETLANDS WITHIN AND ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED.
3. ALL KARST FEATURES SHALL HAVE TEMPORARY SEDI PLACEMENT.
4. EROSION CONTROL BLANKETS SHALL BE PLACED ON ALL SLOPES 3:1 OR STEEPER AND IN DITCHES UNLESS OTHERWISE NOTED. SEE DETAIL SHEET ECE-ROLLS1.

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

SECTION/ITEM: 000
ROLL PLOT
STA. 277+00 TO STA. 382+00

RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE
DESIGNED: RN	DRAWN: JP	
APPROVED:	CHECKED: BG	

DESIGNATION:	HORIZONTAL SCALE:	ORIG. NO.:	SHT. NO.:
	1"=100'	ECE-ROLL02	77 OF 118
PROJECT:	VERTICAL SCALE:	INITIS:	DATE SHT:
	N/A		11/6/2014

ROLL PLOT NO.
77 OF 118

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Erosion Control and Environmental Mitigation Plan

LAYOUT MAP

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

SECTION/ITEM: 000
ROLL PLOT
STA. 277+00 TO STA. 382+00

RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE
DESIGNED: RN	DRAWN: JP	
APPROVED:	CHECKED: BG	

DESIGNATION:	HORIZONTAL SCALE:	ORIG. NO.:	SHT. NO.:
	1"=100'	ECE-ROLL02	77 OF 118
PROJECT:	VERTICAL SCALE:	INITIS:	DATE SHT:
	N/A		11/6/2014

ROLL PLOT NO.
77 OF 118

LEGEND:

- CORE FOREST
- CAVE RECHARGE AREA
- HISTORICAL RESOURCE
- SUPERFUND RECHARGE AREA
- HAZARDOUS WASTE/SUPERFUND AREA
- ARCHAEOLOGICAL SENSITIVE AREA
- WETLANDS
- LIMIT OF WETLAND DND AREA, SEE SPECIFICATIONS FOR DETAILS
- EXISTING TREE LINE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- ROCK OUTCROP
- PROTECT TREES IN PLACE
- ABUTMENT, RETAINING, AND SOUND WALLS

KARST

- S-1 KARST FEATURE AND FEATURE NUMBER
  - C=CAVE; CU=CULVERT; D=DITCH FAILURE; M=MISCELLANEOUS
  - S = SINKHOLE; SP=SPRING; SS=SINKING STREAM
- KARST SINKHOLE AREA
- KARST BURIED SINKHOLE AREA
- KARST SINKING STREAM AREA

ENVIRONMENTAL

- WILDLIFE FENCE
- US WATERS PROTECTIVE FENCE AND SIGNS

EROSION AND SEDIMENT CONTROL

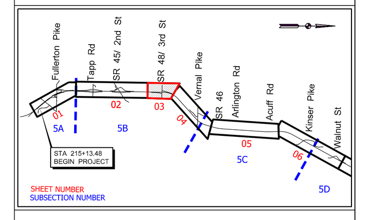
- TEMPORARY ROCK MULCH CHECK DAM, SEE DETAIL FOR CHECK DAM SPACING
- TEMPORARY SILT FENCE
- TEMPORARY SEDIMENT BASIN
- RRR REVETMENT RIP RAP
- RB(1*) ROCK FILTER BERM
- J(1*) TEMPORARY SLOPE DRAIN/J-DRAIN
- ST(1*) TEMPORARY SEDIMENT TRAP WITH INTERCEPTOR DITCH
- IP(1*) TEMPORARY INLET PROTECTION
- CF(1*) NUMBER 2 STONE CUT-FILL TRANSITION

* REPRESENTS QUANTITY (EACH) OF ITEM PER CALL

NOTES:

1. SEE SHEET ECE-ROLL03 FOR ALL DETAILS.
2. ALL WATER WAYS AND WETLANDS WITHIN AND ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED.
3. ALL KARST FEATURES SHALL HAVE TEMPORARY SIGN PLACEMENT.
4. EROSION CONTROL BLANKETS SHALL BE PLACED ON ALL SLOPES (EXCEPT ROCK CUTS) 3:1 OR STEEPER UNLESS OTHERWISE NOTED. SEE DETAIL SHEET ECE-ROLL03.

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

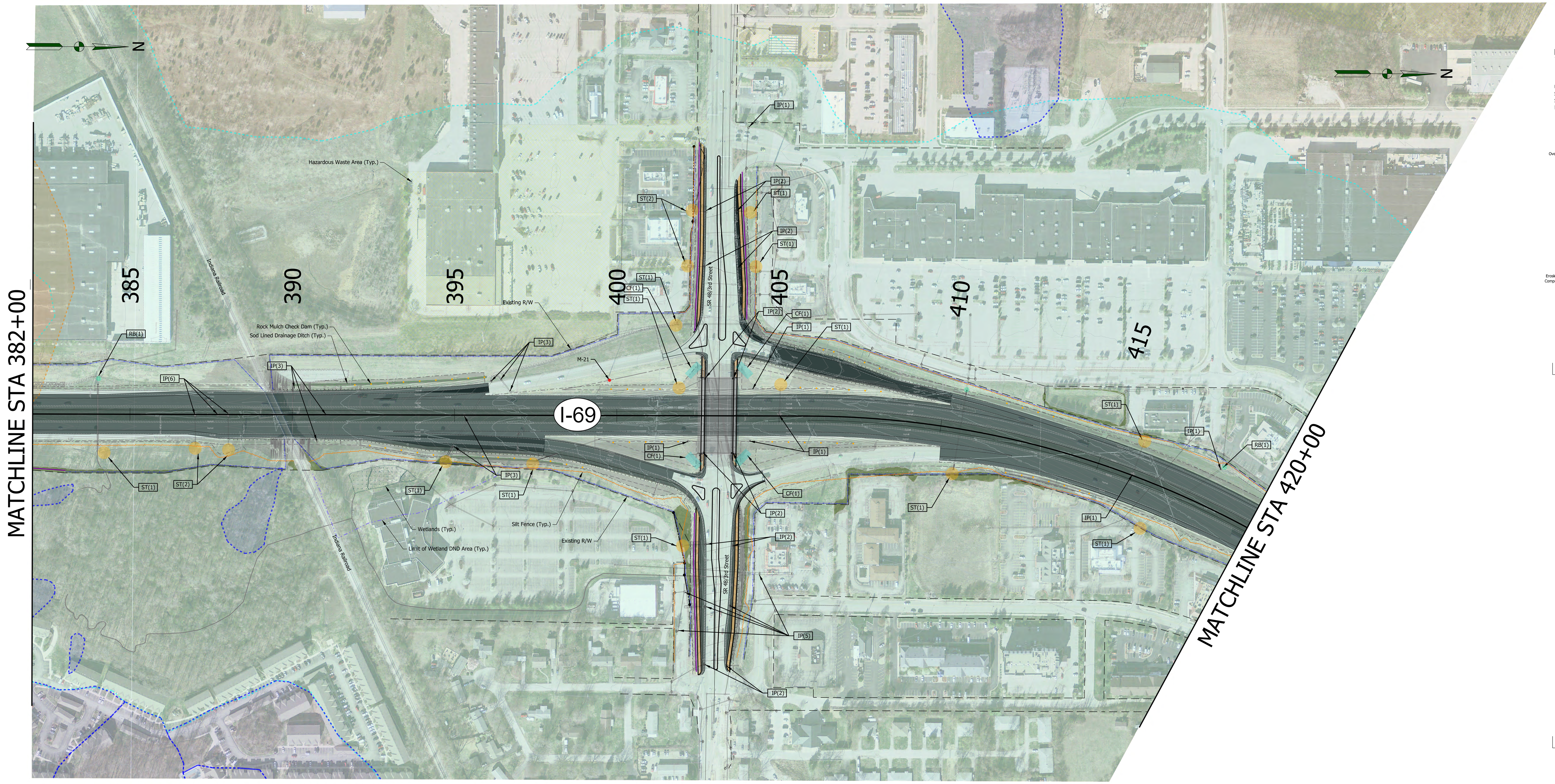
SUBSECTION 5B
ROLL PLOT
STA. 382+00 TO STA. 420+00

RECOMMENDED FOR APPROVAL: ______ DESIGN ENGINEER ______ DATE

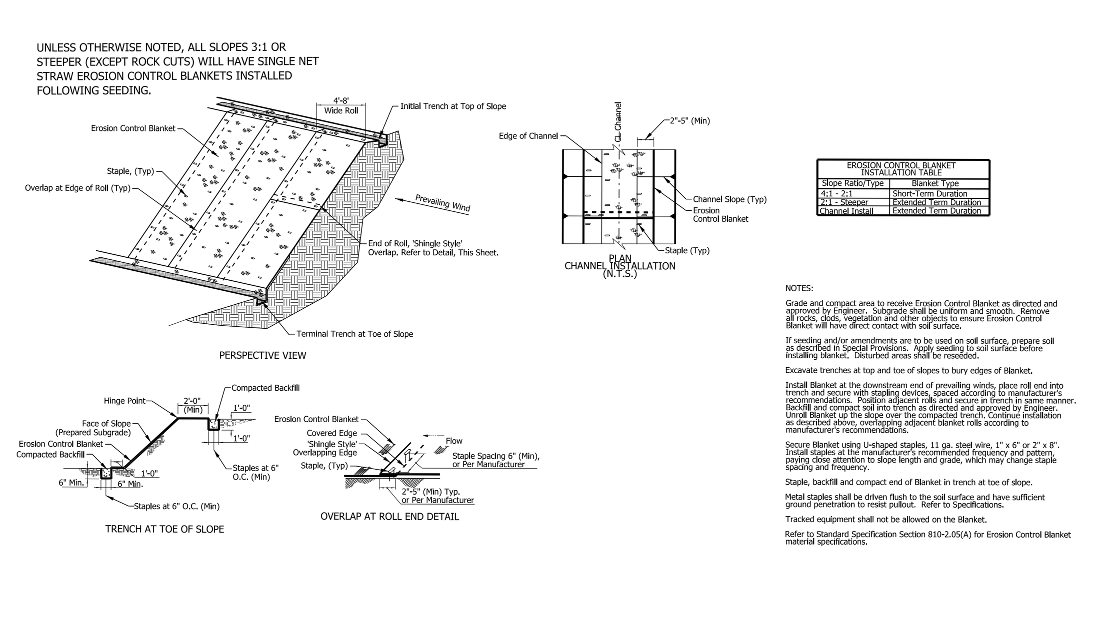
DESIGNED: PH	DRAWN: JP
APPROVED:	CHECKED: SEL

DESIGNATION:	HORIZONTAL SCALE:	DWG NO.	SHT NO.
	1" = 100'	ECE-ROLL03	3 OF 13
PROJECT:	VERTICAL SCALE:	REV. NO.	DWG DATE
	N/A		1-10-2014

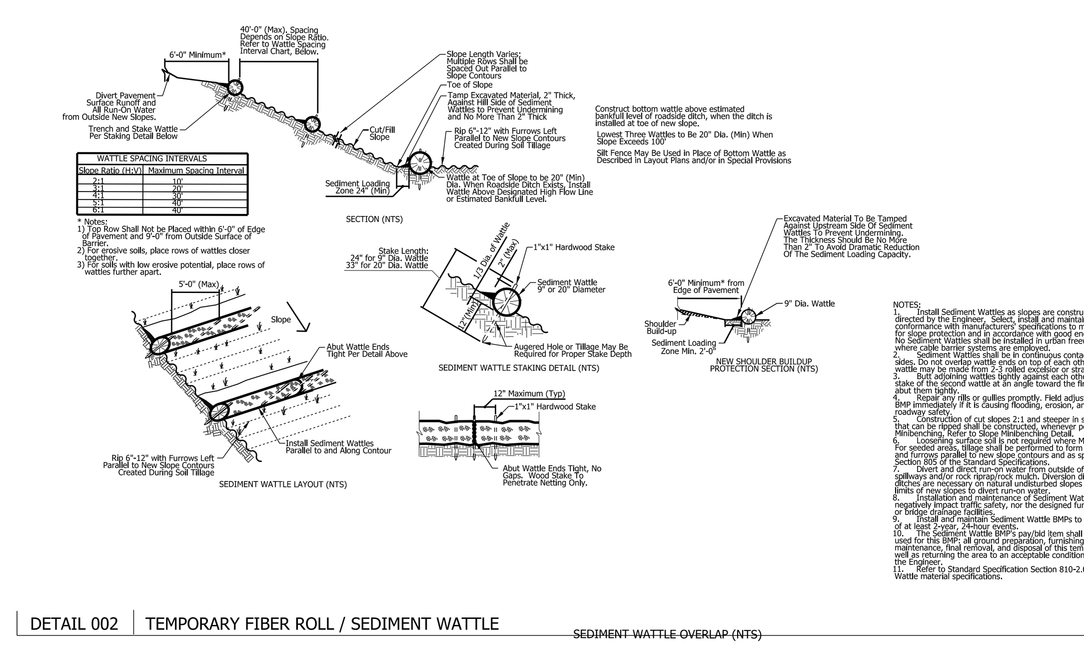
ROLL PLOT NO.
78 OF 118



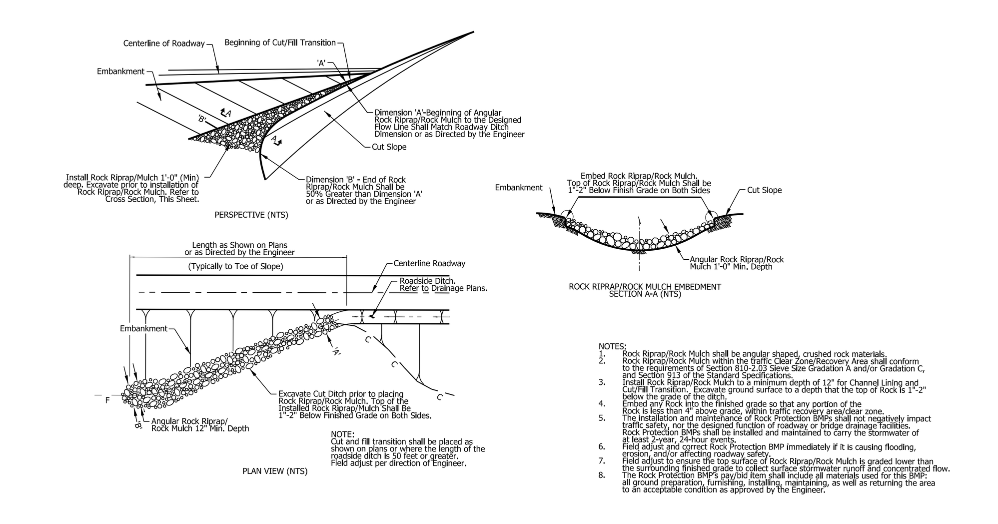
EROSION CONTROL DETAILS



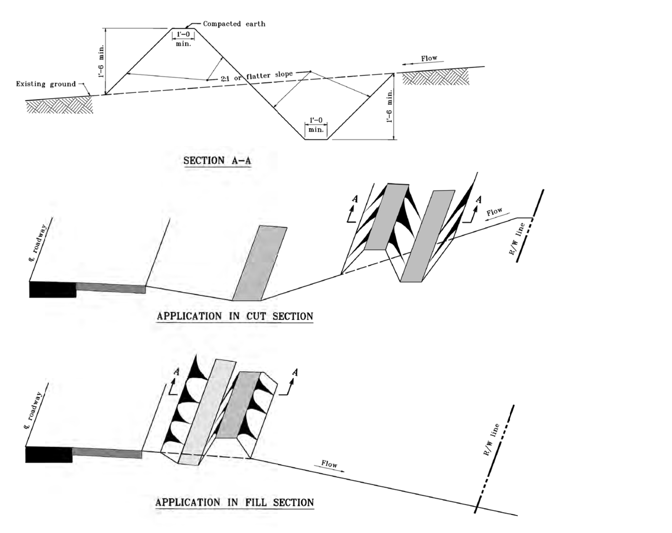
DETAIL 001 | EROSION CONTROL BLANKET



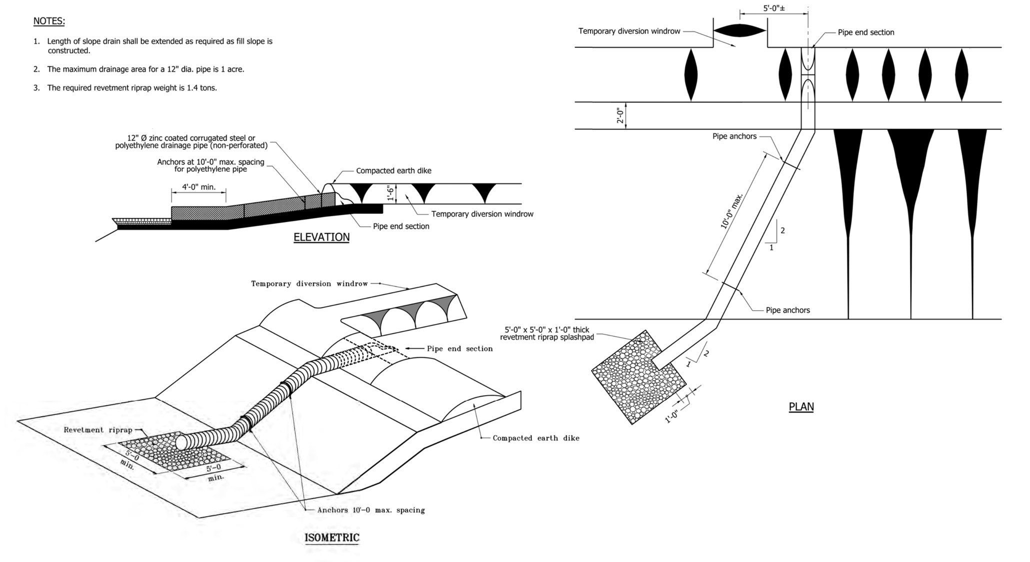
DETAIL 002 | TEMPORARY FIBER ROLL / SEDIMENT WATTLE



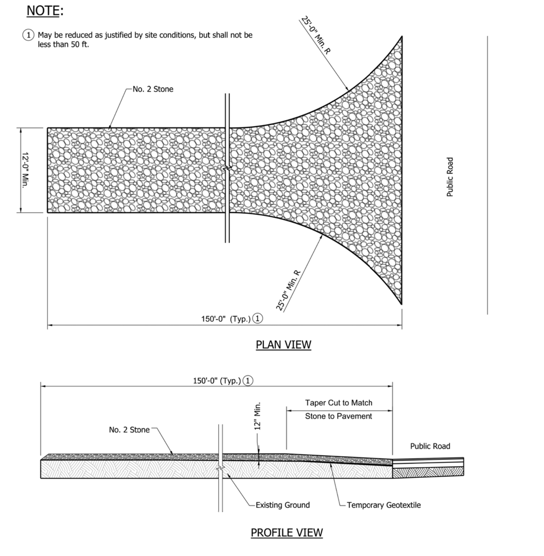
DETAIL 003 | ROCK PROTECTION FOR CUT & FILL TRANSITION AND CHANNEL LINING



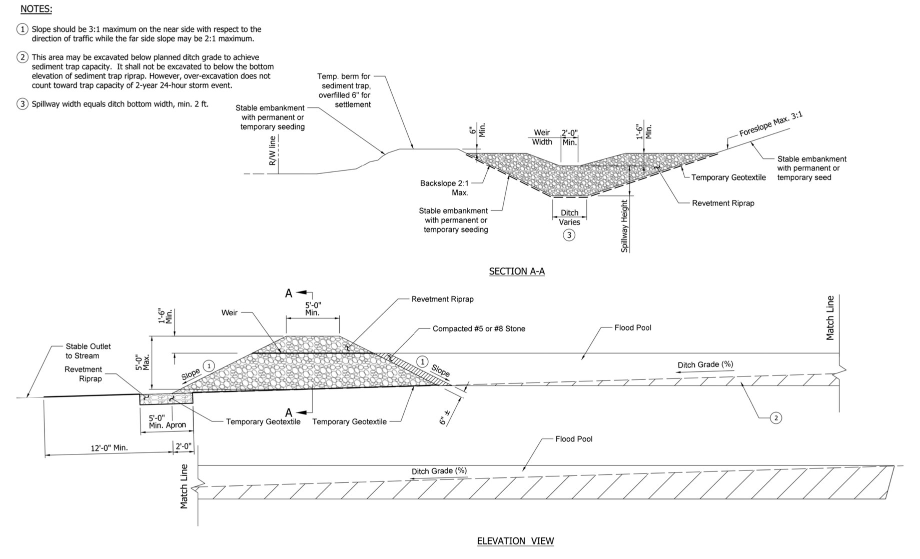
205-TECI-01 | TEMPORARY INTERCEPTOR DITCH



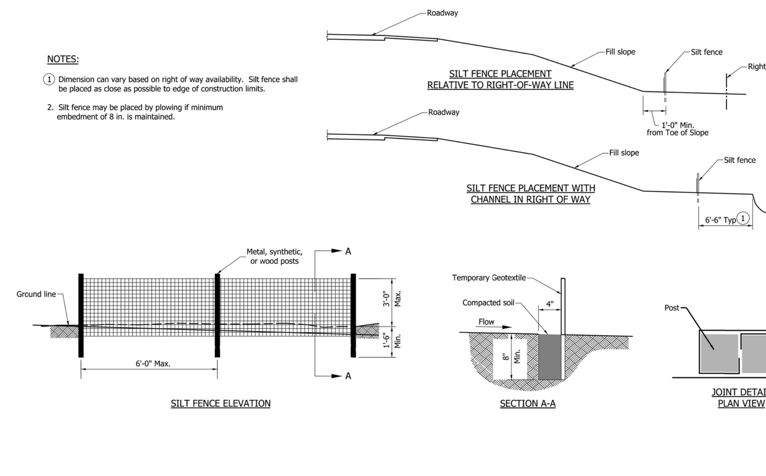
205-TECS-02 | TEMPORARY SLOPE DRAIN / J DRAIN



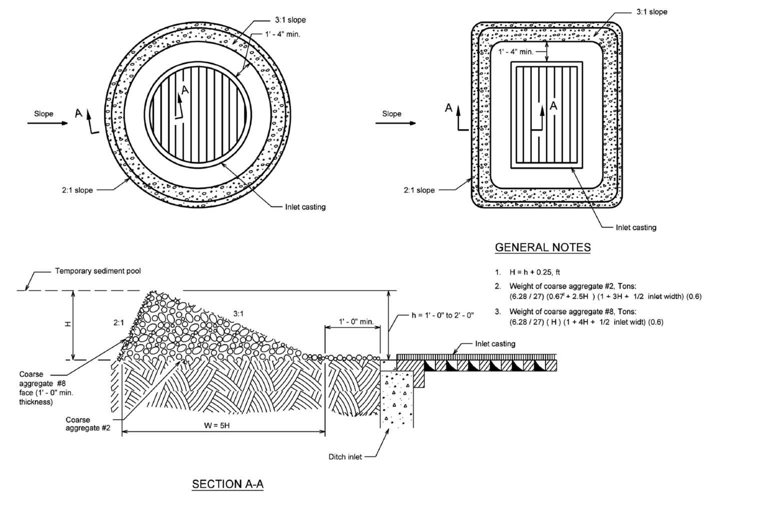
205-TECP-01 | TEMPORARY CONSTRUCTION ENTRANCE



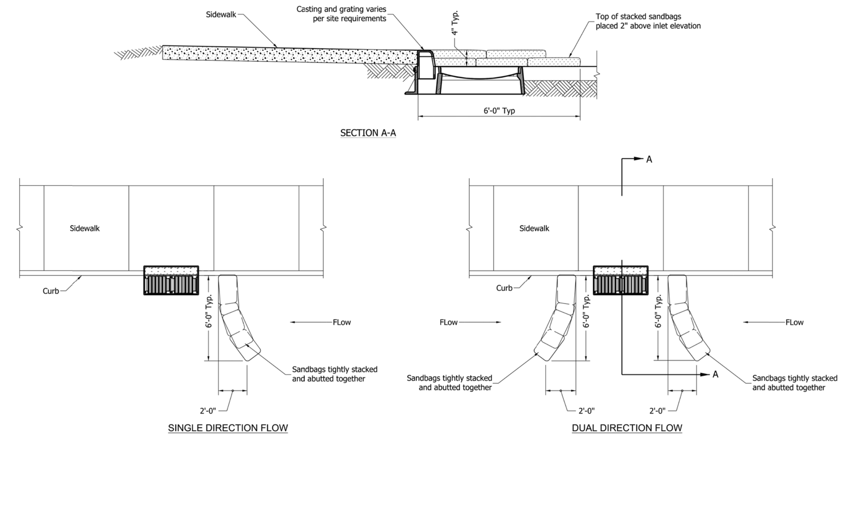
205-TECD-03 | TEMPORARY SEDIMENT TRAP



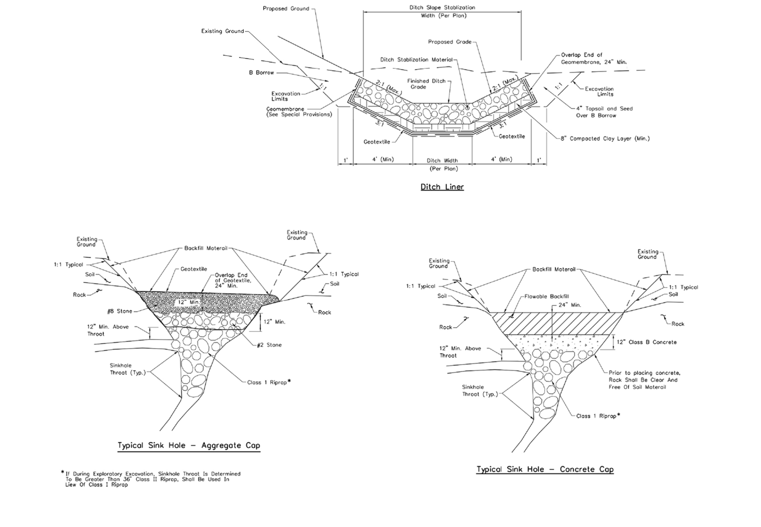
205-TECP-02 | TEMPORARY SILT FENCE



205-TECI-01 | TEMPORARY DITCH INLET PROTECTION, GRAVEL RING



205-TECI-05 | SANDBAG PROTECTION FOR INLETS

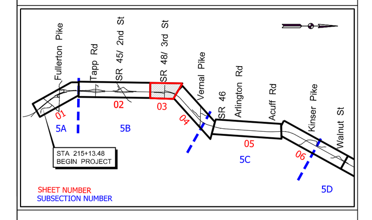


205-TECP-02 | KARST - SINK HOLE CAP AND DITCH LINER

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Erosion Control and
Environmental Mitigation
Plan

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

SUBSECTION 5B
ROLL PLOT
STA. 382+00 TO STA. 420+00

RECOMMENDED FOR APPROVAL: ______ DESIGN ENGINEER ______ DATE

DESIGNED: PH DRAWN: JP
APPROVED: CHECKED: SEL

DESIGNATION: HORIZONTAL SCALE: 1" = 100' DWG NO. ECE-ROLL03 SHT NO. 3 OF 13
PROJECT: VERTICAL SCALE: N/A REV. NO. DWG DATE 1-10-2014

ROLL PLOT NO.
78 OF 118

ITP Exhibit B - 4.2.1.3
Erosion Control and Environmental Mitigation Plan

LEGEND:

- CORE FOREST
- CAVE RECHARGE AREA
- HISTORICAL RESOURCE
- SUPERFUND RECHARGE AREA
- HAZARDOUS WASTE/SUPERFUND AREA
- ARCHAEOLOGICAL SENSITIVE AREA
- WETLANDS
- LIMIT OF WETLAND DND AREA, SEE SPECIFICATIONS FOR DETAILS
- EXISTING TREE LINE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- ROCK OUTCROP
- PROTECT TREES IN PLACE
- ABUTMENT, RETAINING, AND SOUND WALLS

KARST

- S-1 KARST FEATURE AND FEATURE NUMBER
  - C=CAVE S = SINKHOLE
  - CU=CULVERT SP=SPRING
  - D=DITCH FAILURE SS=SINKING STREAM
  - M=MISCELLANEOUS
- KARST SINKHOLE AREA
- KARST BURIED SINKHOLE AREA
- KARST SINKING STREAM AREA

ENVIRONMENTAL

- WILDLIFE FENCE
- US WATERS PROTECTIVE FENCE AND SIGNS

EROSION AND SEDIMENT CONTROL

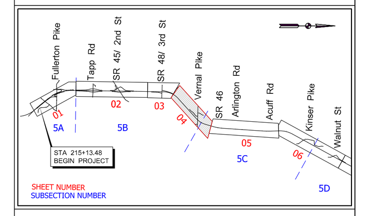
- TEMPORARY ROCK MULCH CHECK DAM, SEE DETAIL FOR CHECK DAM SPACING
- TEMPORARY SILT FENCE
- TEMPORARY SEDIMENT BASIN
- RRR REVETMENT RIP RAP
- RB(1*) ROCK FILTER BERM
- J(1*) TEMPORARY SLOPE DRAIN/J-DRAIN
- ST(1*) TEMPORARY SEDIMENT TRAP WITH INTERCEPTOR DITCH
- IP(1*) TEMPORARY INLET PROTECTION
- CF(1*) NUMBER 2 STONE CUT-FILL TRANSITION

* REPRESENTS QUANTITY (EACH) OF ITEM PER CALL

NOTES:

1. SEE SHEET ECE-ROLL03 FOR ALL DETAILS.
2. ALL WATER WAYS AND WETLANDS WITHIN AND ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED.
3. ALL KARST FEATURES SHALL HAVE TEMPORARY SIGN PLACEMENT.
4. EROSION CONTROL BLANKETS SHALL BE PLACED ON ALL SLOPES (EXCEPT ROCK CUTS) 3:1 OR STEEPER UNLESS OTHERWISE NOTED. SEE DETAIL SHEET ECE-ROLL03.

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

SUBSECTION 5B AND 5C
ROLL PLOT
STA. 420+00 TO STA. 494+00

RECOMMENDED FOR APPROVAL: ______ DESIGN ENGINEER DATE

DESIGNED:	PH	DRAWN:	JP
APPROVED:		CHECKED:	SEL

DESIGNATION:	HORIZONTAL SCALE:	DWG NO.	SHT NO.
	1" = 100'	ECE-ROLL04	4 OF 13
PROJECT:	VERTICAL SCALE:	REV. NO.	DWG DATE
	N/A		1-10-2014

ROLL PLOT NO.
79 OF 118

LAYOUT MAP

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

SUBSECTION 5B AND 5C
ROLL PLOT
STA. 420+00 TO STA. 494+00

ROLL PLOT NO.
79 OF 118

LEGEND:

- CORE FOREST
- CAVE RECHARGE AREA
- HISTORICAL RESOURCE
- SUPERFUND RECHARGE AREA
- HAZARDOUS WASTE/SUPERFUND AREA
- ARCHAEOLOGICAL SENSITIVE AREA
- WETLANDS
- LIMIT OF WETLAND DND AREA, SEE SPECIFICATIONS FOR DETAILS
- EXISTING TREE LINE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- ROCK OUTCROP
- PROTECT TREES IN PLACE
- ABUTMENT, RETAINING, AND SOUND WALLS

KARST

- S-1 KARST FEATURE AND FEATURE NUMBER
  - C=CAVE S = SINKHOLE
  - CU=CULVERT SP=SPRING
  - D=DITCH FAILURE SS=SINKING STREAM
  - M=MISCELLANEOUS
- KARST SINKHOLE AREA
- KARST BURIED SINKHOLE AREA
- KARST SINKING STREAM AREA

ENVIRONMENTAL

- WILDLIFE FENCE
- US WATERS PROTECTIVE FENCE AND SIGNS

EROSION AND SEDIMENT CONTROL

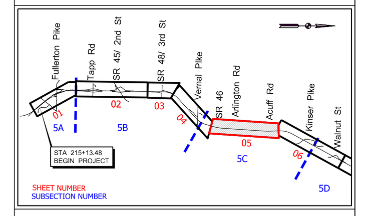
- TEMPORARY ROCK MULCH CHECK DAM, SEE DETAIL FOR CHECK DAM SPACING
- TEMPORARY SILT FENCE
- TEMPORARY SEDIMENT BASIN
- RRR REVETMENT RIP RAP
- RB(1*) ROCK FILTER BERM
- J(1*) TEMPORARY SLOPE DRAIN/J-DRAIN
- ST(1*) TEMPORARY SEDIMENT TRAP WITH INTERCEPTOR DITCH
- IP(1*) TEMPORARY INLET PROTECTION
- CF(1*) NUMBER 2 STONE CUT-FILL TRANSITION

* REPRESENTS QUANTITY (EACH) OF ITEM PER CALL

NOTES:

1. SEE SHEET ECE-ROLL03 FOR ALL DETAILS.
2. ALL WATER WAYS AND WETLANDS WITHIN AND ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED.
3. ALL KARST FEATURES SHALL HAVE TEMPORARY SIGN PLACEMENT.
4. EROSION CONTROL BLANKETS SHALL BE PLACED ON ALL SLOPES (EXCEPT ROCK CUTS) 3:1 OR STEEPER UNLESS OTHERWISE NOTED. SEE DETAIL SHEET ECE-ROLL03.

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

SUBSECTION 5C
ROLL PLOT
STA. 494+00 TO STA. 594+00

RECOMMENDED FOR APPROVAL: ______ DESIGN ENGINEER DATE

DESIGNED: PH	DRAWN: JP
APPROVED:	CHECKED: SEL

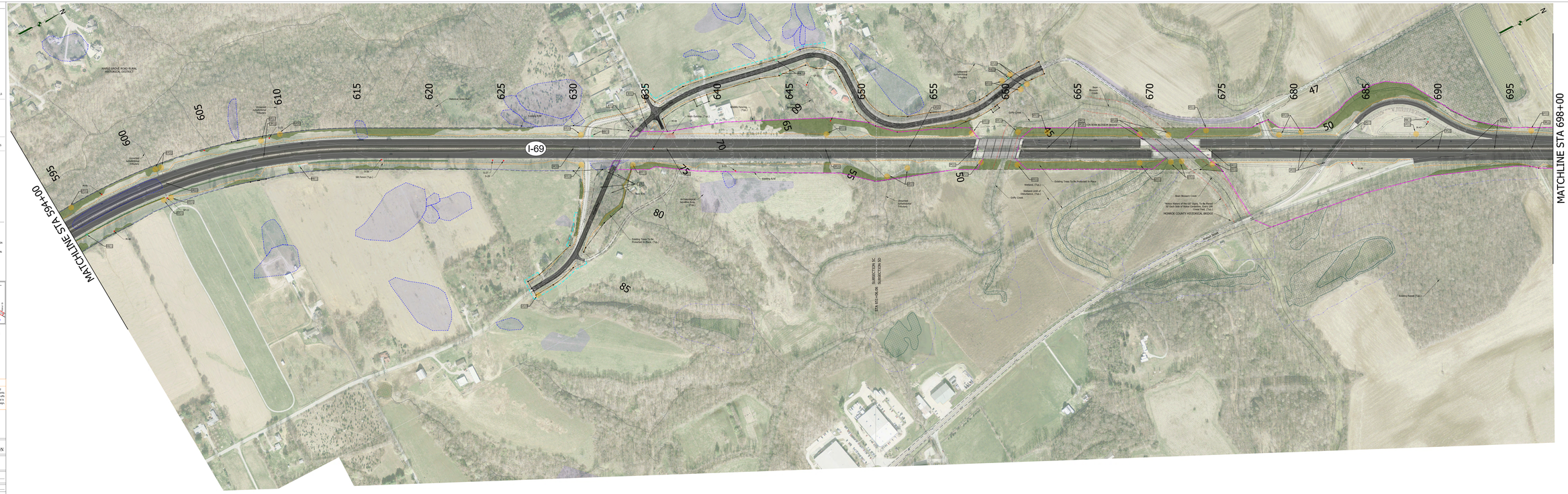
DESIGNATION:	HORIZONTAL SCALE:	DWG NO.	SHT NO.
	1" = 100'	ECE-ROLL05	5 OF 13
PROJECT:	VERTICAL SCALE:	REV. NO.	DWG DATE
	N/A		1-10-2014

ROLL PLOT NO.
80 OF 118

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Erosion Control and Environmental Mitigation Plan

LAYOUT MAP
SCALE: 1 INCH = 100 FEET (HORIZONTAL)
FUNCTIONAL CLASS: URBAN/RURAL INTERSTATE
TERRAIN: ROLLING
PRELIMINARY ONLY
This document, and the associated engineering details and material quantities reflect Preliminary Schematic-level Design only. Use of this information for quantity verification, quantity take-offs and construction estimating is the responsibility of others, and is subject to the limitations and accuracy of Preliminary-level design. This document shall not be used for construction.
EROSION CONTROL AND ENVIRONMENTAL MITIGATION
SUBSECTION 5C ROLL PLOT STA. 494+00 TO STA. 594+00
ROLL PLOT NO. 80 OF 118



LEGEND:

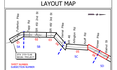
- CORE FOREST
- CAVE RECHARGE AREA
- HISTORICAL RESOURCE
- SURFSPRD RECHARGE AREA
- HAZARDOUS WASTE/SURFSPRD AREA
- ARCHAEOLOGICAL SENSITIVE AREA
- WETLANDS
- LIMIT OF WETLAND END AREA, SEE SPECIFICATIONS FOR DETAILS
- EXISTING TREE LINE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- ROCK OUTCROP
- PROTECT TREES IN PLACE
- ADJTMENT, RETAINING, AND SOUND WALLS
- KARST: KARST FEATURE AND FEATURE NUMBER. SINK=SK-# SPRING=SP-# CAVE=CAVE-# SINKHOLE=SH-# SINKING STREAM=SS-# RISING STREAM=SR-#
- KARST SINKHOLE AREA
- KARST BURIED SINKHOLE AREA
- KARST SINKING STREAM AREA
- ENVIRONMENTAL: WILDLIFE FENCE
- US WATERS PROTECTIVE FENCE AND SIGNS
- EROSION AND SEDIMENT CONTROL: SEE DETAILS, PACKAGES AND CHECK OWL SEE DETAIL PACKAGES FOR SPACING
- TEMPORARY SILT FENCE
- TEMPORARY SEDIMENT BASIN
- RIPRAP: RIPRAP SEE RAP
- RSF: ROCK FILTER BERM
- TSD: TEMPORARY SLOPE DRAIN/S DRAIN
- TSDT: TEMPORARY SEDIMENT TRAP WITH ANTISCRIPTOR DITCH
- SFT: TEMPORARY SILLT PROTECTION
- NUMBER 2 STONE CUT FILL TRANSITION

* REPRESENTS QUANTITY (EACH) OF ITEM PER CALL

NOTES:

1. SEE SHEET ECO ROLLED FOR ALL DETAILS.
2. ALL WATER WAYS AND WETLANDS WITHIN AND ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED.
3. ALL KARST FEATURES SHALL HAVE TEMPORARY SEDI PLACEMENT.
4. EROSION CONTROL BLANKETS SHALL BE PLACED ON ALL SLOPES 3:1 OR STEEPER AND DITCHES UNLESS OTHERWISE NOTED. SEE DETAIL SHEET ECO ROLLED.

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

SUBSECTIONS 3C & 3D
ROLL PLOT
STA. 594+00 TO STA. 698+00

RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE
DESIGNED: RH	DRAWN: JP	
APPROVED:	CHECKED: BS	

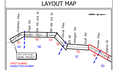
DESIGNATION:	HORIZONTAL SCALE:	ZONE NO:	SHT. NO:
	1"=100'	E3 N-NAD	81 OF 118
PROJECT:	VERTICAL SCALE:	DATE:	PLOT DATE:
	N/A		7/14/2014

ROLL PLOT NO.
81 OF 118

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Erosion Control and Environmental Mitigation Plan

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

SUBSECTIONS 3C & 3D
ROLL PLOT
STA. 594+00 TO STA. 698+00

RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE
DESIGNED: RH	DRAWN: JP	
APPROVED:	CHECKED: BS	

DESIGNATION:	HORIZONTAL SCALE:	ZONE NO:	SHT. NO:
	1"=100'	E3 N-NAD	81 OF 118
PROJECT:	VERTICAL SCALE:	DATE:	PLOT DATE:
	N/A		7/14/2014

ROLL PLOT NO.
81 OF 118

LEGEND:

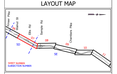
- CORE FOREST
- CAVE RECHARGE AREA
- HISTORICAL RESOURCE
- SURFSPAND RECHARGE AREA
- HAZARDOUS WASTE/SURFSPAND AREA
- ARCHEOLOGICAL SENSITIVE AREA
- WETLANDS
- LIMIT OF WETLAND END AREA SEE SPECIFICATIONS FOR DETAILS
- EXISTING TREE LINE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- ROCK OUTCROP
- PROTECT TREES IN PLACE
- ADJTMENT, RETAINING, AND SOUND WALLS
- KARST
- KARST FEATURE AND FEATURE NUMBER
  - SINKHOLE — SPRING
  - CAVE/CLIFF — SINKING STREAM
  - SWITCH FAILURE — RISING STREAM
  - SWITCH FAILURE
- KARST SINKHOLE AREA
- KARST BURIED SINKHOLE AREA
- KARST SINKING STREAM AREA
- ENVIRONMENTAL
- WILDLIFE FENCE
- US WATERS PROTECTIVE FENCE AND SIGNS
- EROSION AND SEDIMENT CONTROL
  - SILT FENCE WITH CHECK DAMS, SEE DETAIL FOR SPACING (SHA SPACING)
  - TEMPORARY SILT FENCE
  - TEMPORARY SEDIMENT BASIN
  - EXCETMENT SED BAP
  - ROCK FILTER BERM
  - TEMPORARY SLOPE DRAIN(S) DRAIN
  - TEMPORARY SEDIMENT TRAP WITH ANTISCIPTOR DITCH
  - TEMPORARY SILT PROTECTION
  - NUMBER 3 STONE CUT-FILL TRANSITION

* REPRESENTS QUANTITY (EACH) OF ITEM PER CALL

NOTES:

1. SEE SHEET ECO #(ILLO) FOR ALL DETAILS.
2. ALL WATER WAYS AND WETLANDS WITHIN AND ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED.
3. ALL KARST FEATURES SHALL HAVE TEMPORARY SEDI PLACEMENT.
4. EROSION CONTROL BLANKETS SHALL BE PLACED ON ALL SLOPES 3:1 OR STEEPER AND ALL DITCHES UNLESS OTHERWISE NOTED. SEE DETAIL SHEET ECO #(ILLO).

LAYOUT MAP



SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

RECONSTRUCT I-69 TO 6 LANE
ROLL PLOT
STA. 698+00 TO STA. 797+00

RECOMMENDED FOR APPROVAL:	EROSION ENGINEER	DATE
DESIGNED: PH	DRAWN: JP	
APPROVED:	CHECKED: DG	

DESIGNATION:	HORIZONTAL SCALE:	1"=100'	SHEET NO.:	82 OF 118
	VERTICAL SCALE:	N/A	SHEET SIZE:	11x34

ROLL PLOT NO.
82 OF 118

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Erosion Control and Environmental Mitigation Plan

LAYOUT MAP

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

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I-69 DEVELOPMENT PARTNERS

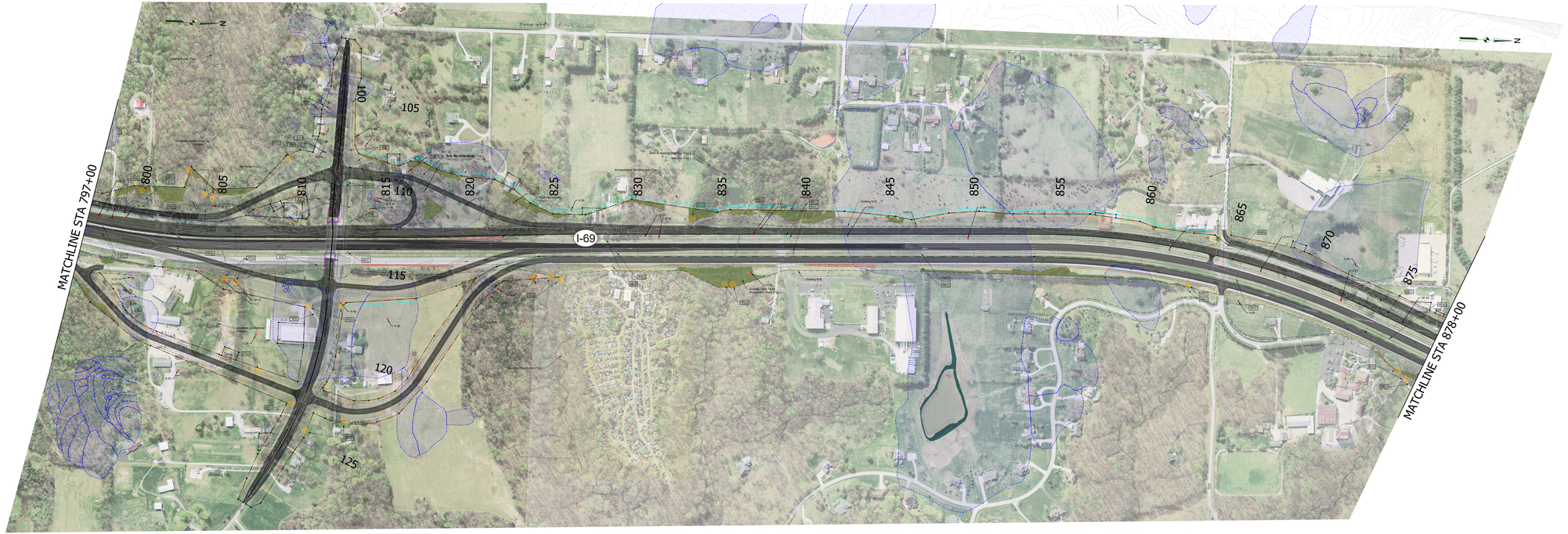
EROSION CONTROL AND ENVIRONMENTAL MITIGATION

RECONSTRUCT I-69 TO 6 LANE
ROLL PLOT
STA. 698+00 TO STA. 797+00

RECOMMENDED FOR APPROVAL: EROSION ENGINEER DATE
DESIGNED: PH DRAWN: JP
APPROVED: CHECKED: DG

DESIGNATION: HORIZONTAL SCALE: 1"=100' SHEET NO.: 82 OF 118
PROJECT: VERTICAL SCALE: N/A SHEET SIZE: 11x34

ROLL PLOT NO.
82 OF 118



LEGEND:

- CORE FOREST
- CAVE RECHARGE AREA
- HISTORICAL RESOURCE
- SURFSPRD RECHARGE AREA
- HAZARDOUS WASTE/SUPERFUND AREA
- ARCHAEOLOGICAL SENSITIVE AREA
- WETLANDS
- LIMIT OF WETLAND DNO AREA, SEE SPECIFICATIONS FOR DETAILS
- EXISTING TREE LINE
- CONSTRUCTION LIMITS
- CLEAR ZONE (30')
- ROCK OUTCROP
- PROTECT TREES IN PLACE
- ABUTMENT, RETAINING, AND SOUND WALLS
- KARST: KARST FEATURE AND FEATURE NUMBER; SINKHOLE / SWALLOW HOLE / CAVE/CLIMAT / SPRING / SWITCH FAILURE / DISAPPEARING STREAM
- KARST SINKHOLE AREA
- KARST BURIED SINKHOLE AREA
- KARST SINKING STREAM AREA
- ENVIRONMENTAL: WILDLIFE FENCE
- US WATERS PROTECTIVE FENCE AND SIGNS
- EROSION AND SEDIMENT CONTROL: SEE DETAILS ON ROLLPLOTS CHECK DAM, SEE DETAIL FOR CHECK DAM SPACING
- TEMPORARY SILT FENCE
- TEMPORARY SEDIMENT BASIN
- EXCAVATION OR FILL
- ROCK FILTER BERM
- TEMPORARY SLOPE DRAIN/ CHANN
- TEMPORARY SEDIMENT TRAP WITH INTERCEPTOR DITCH
- TEMPORARY INLET PROTECTION
- NUMBER 2 STONE CLOV FILL TRANSITION

* REPRESENTS QUANTITY (EACH) OF ITEM PER CALL

NOTES:

1. SEE SHEET ECO ROLLED FOR ALL DETAILS.
2. ALL WATER WAYS AND WETLANDS WITHIN AND ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED.
3. ALL KARST FEATURES SHALL HAVE TEMPORARY SEDIMENT PLACEMENT.
4. EROSION CONTROL BLANKETS SHALL BE PLACED ON ALL SLOPES 3:1 OR STEEPER AND DITCHES UNLESS OTHERWISE NOTED. SEE DETAIL SHEET ECO ROLLED.

LAYOUT MAP

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
URBAN/RURAL INTERSTATE
TERRAIN:
ROLLING

PRELIMINARY ONLY

This document, and the associated engineering details and material quantities, are Preliminary Information and Design Data only. Use of this information for quantity verification, quantity take-offs and construction estimating is the responsibility of others, and is subject to the limitations and accuracy of Preliminary-level design. This document shall not be used for construction.

I-69 DEVELOPMENT PARTNERS

EROSION CONTROL AND ENVIRONMENTAL MITIGATION

ECO MAP/ECO ROLL PLOT
ROLL PLOT
STA. 797+00 TO STA. 878+00

RECOMMENDED FOR APPROVAL:	ERSION ENGINEER	DATE
DESIGNED	PH	DRAWN JP
APPROVED		CHECKED BS

DESIGNATION	HORIZONTAL SCALE	ORIG SIZE	SHT NO
	1"=100'	ARCH D	ECO 24 OF 24
PROJECT	VERTICAL SCALE	ARCH	SHT DATE
N/A	N/A		7/24/2014

ROLL PLOT NO.
83 OF 118

TECHNICAL PROPOSAL - ROLL PLOT

ITP Exhibit B - 4.2.1.3
Erosion Control and Environmental Mitigation Plan

LAYOUT MAP

SCALE: 1 INCH = 100 FEET (HORIZONTAL)

FUNCTIONAL CLASS:
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DESIGNED PH DRAWN JP
APPROVED CHECKED BS

DESIGNATION 1"=100' HORIZONTAL SCALE ORIG SIZE ARCH D SHT NO ECO 24 OF 24
PROJECT N/A VERTICAL SCALE N/A ARCH SHT DATE 7/24/2014

ROLL PLOT NO.
83 OF 118