

CHAPTER 01	Foundations				
SECTION 01	General				
SUB-SECTION					
Detail Number	Version	Detail Description	Date Issued	Status	
FND-GN-101	1	Skewed Abutment and Wing Wall Footing Intersection	11/17/1997	FOR OFFICE USE ONLY	
SECTION 02	Pile Founda	tion			
SUB-SECTION					
Detail Number	Version	Detail Description	Date Issued	Status	
FND-PF-101	1	Preliminary Embankment for Pedestal Type Bridge Abutments On Piles	07/24/2001	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
FND-PF-102	1	Preliminary Embankment for Semi-Cantilever Type Abutments on Piles with Stepped Wing Wall Footers	07/24/2001	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
FND-PF-201	1	Rebar Mat Pattern over Piling	01/22/2001	FOR OFFICE USE ONLY	
Detail Number	Version	Detail Description	Date Issued	Status	
FND-PF-202	1	Reinforcing Bar Standard Footing Support System	03/07/1991	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
FND-PF-301	1	Steel H Pile Splice Details	01/22/2001	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
FND-PF-302	1.01	Toothed Pile Point for 10" H Pile	04/03/2018	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
FND-PF-303	1.01	Toothed Pile Point for 12" H Pile	04/03/2018	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
FND-PF-304	1.01	Toothed Pile Point for 14" H Pile	04/03/2018	APPROVED	



Detail Number	Version	Detail Description	Date Issued	Status
FND-PF-401	1	Pile Point for Pipe Pile	04/03/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
FND-PF-501	1	Details for Cast-In-Place Concrete Piles	10/09/2007	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
FND-PF-502	1	Splice for Cast-In-Place Concrete Pile Shell	06/20/1975	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
FND-PF-503	1	Splice for Cast-In-Place Concrete Pipe Pile Shell	01/22/2001	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
FND-PF-504	1	Caisson/Pile Rebar Cage Clearance Spacing Devices	08/07/1998	APPROVED
SECTION 03	Slope Prote	ction		
SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
FND-SP-101	1	Slope Protection for Bridges Carrying Road Over Road or Railroad	09/16/2011	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
FND-SP-201	1	Typical Rip Rap Installations at Piers and Abutments		PRELIMINARY DRAFT(OFFICE USE ONLY)



CHAPTER 02	Substruct	ture		
SECTION 01	Drainage			
SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
SUB-DR-101	1	Drainage Inlet At End of Bridge Structure (Open Approach Roadway)	01/30/2007	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUB-DR-201	1	Drainage System and Backfill for Abutments with Fixed Bearings or Expansion Bearings with Lengths Contributing to Expansion Less than or Equal to 70 Feet	10/02/2014	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUB-DR-202	1	Drainage System and Backfill for Abutments with Fixed Bearings or Expansion Bearings with Lengths Contributing to Expansion Greater than 70 Feet	10/02/2014	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUB-DR-203	1	Drainage System and Backfill for Wing Walls that are Parallel to the Highway	10/02/2014	APPROVED
SECTION 02	Abutment			
SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
SUB-AB-101	1	Typical Section for Catilever Abutments on Piles Carrying Steel Girders with Steel Fixed Bearings or Steel Expansion Bearings with Length Contributing to Exapnsion <= 70 FT.	06/26/2013	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUB-AB-102	1	Wing Wall/Abutment Connections for Fixed Bearings or Expansion Bearings with Length Contributing to Exapnsion <= 70 FT Reinforcing Details	12/20/2011	FOR OFFICE USE ONLY



Detail Number	Version	Detail Description	Date Issued	Status
SUB-AB-201	1	Typical Section for Catilever Abutments on Piles Carrying Stell Girders with Steel Expansion Bearings with Length Contributing to Exapnsion > 70 FT.	10/03/2013	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUB-AB-202	1	Wing Wall/Abutment Connections for Fixed Bearings or Expansion Bearings with Length Contributing to Exapnsion > 70 FT Reinforcing Details	06/26/2013	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUB-AB-301	1	Keyways at Construction Joints in Abutments	05/07/2018	FOR OFFICE USE ONLY
SECTION 03	WingWall			
SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
SUB-WW-101	1	Stepped Expansion Joint for Wing Walls at Abutments	03/22/2006	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUB-WW-201	2	Typical Wing Wall Cantilever at End of End Post Reinforcement Details	08/11/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUB-WW-301	1	Cheek Wall at Bridge Abutment with Fixed Bearings or Expansion Bearings with Length Contributing to Exapnsion <= 70 Ft.	03/29/2012	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUB-WW-401	1	Cheek Wall at Bridge Abutment with Expansion Bearings with Length Contributing to Exapnsion > 70 Ft.	11/15/2013	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUB-WW-402	1	Expansion Joint Cross Beam Connection at Wing Walls Parallel to	11/15/2013	APPROVED



Pier

## SECTION 04

SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
SUB-PR-101	1	Design Criteria for Typical Reinforced Concrete Pier	07/26/2006	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUB-PR-201	1	Nose Angle for Solid Shaft Water Pier	01/22/2001	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUB-PR-301	1	Fiberglass Jacket for Cast-In-Place Concrete Column	01/22/2001	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUB-PR-302	1	Fiberglass Jacket For New Cylinder Pile	01/22/2001	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUB-PR-303		Fiberglass Protective Jacket for H-Piles (New Construction)		PRELIMINARY DRAFT
Detail Number	Version	Detail Description	Date Issued	Status
SUB-PR-304	1	Fiberglass Jacket for Cast-In-Place Concrete Footing	01/22/2001	APPROVED

## SECTION 05 Bearing Pad Details

SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
SUB-BP-101	1.01	Bearing Pad Where Only A Single Shoe Is Required On A Support	05/07/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUB-BP-102	1.01	Bearing Pad (For Special Piers) Where Only a Single Shoe is Required on Support	05/07/2018	APPROVED

SECTION 06	Utility Det	ails		
SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
SUB-UTL-101	1	Sleeves for Future Utilities at Abutment Backwalls	12/04/2008	APPROVED



SECTION 07	Endpost Det	Endpost Details				
SUB-SECTION 01	42 F Shape					
Detail Number	Version	Detail Description	Date Issued	Status		
SUB-EP(42F)-101	1	42" F-Shape Parapet End Post with Fencing or Railing (Approach End, End Post Length > 11'-2")	06/01/2005	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SUB-EP(42F)-102	1	42" F-Shape Parapet End Post without Fencing or Railing (Approach End, End Post Length > 11'-2'')	06/01/2005	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SUB-EP(42F)-103	1	42" F-Shape Parapet End Post with Fencing or Railing (Approach End, End Post Length < = 11'-2")	06/01/2005	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SUB-EP(42F)-104	1	42" F-Shape Parapet End Post without Fencing or Railing (Approach End, End Post Length < = 11'-2'')	06/01/2005	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SUB-EP(42F)-105	1	42" F-Shape Parapet End Post with Fencing or Railing Trail End	06/01/2005	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SUB-EP(42F)-106	1	42" F-Shape Parapet End Post without Fencing or Railing Trail End	06/01/2005	APPROVED		
SUB-SECTION 02	Sidewalk					
Detail Number	Version	Detail Description	Date Issued	Status		
SUB-EP(SW)-101	1	Parapet End Post for Abutments with Expansion Joint Cross Beam and Sidewalk	09/01/2015	USEABLE DRAFT		
Detail Number	Version	Detail Description	Date Issued	Status		
SUB-EP(SW)-201	1	Parapet End Post for Abutments with Fixed Joint and Sidewalk	09/01/2015	USEABLE DRAFT		



CHAPTER 03	Superstructure						
SECTION 01	Bridge Dec	Bridge Deck					
SUB-SECTION 01	Bridge Dec	k Details					
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-BD(DT)-101	1	Layout of Transverse Joint for Skewed Bridge Deck	09/13/1994	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-BD(DT)-102	2	Bridge Deck Slab Detail at Transverse Construction Joint	04/30/2018	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-BD(DT)-201	2	Bridge Deck Slab Splice Locations	04/30/2018	APPROVED			
SUB-SECTION 02	Bridge Dec	k Steel Girders					
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-BD(SG)-101	1	Bridge Deck Slab - General Notes and Bar Spacing	04/12/2012	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-BD(SG)-102	2	Type XXXII Bridge Deck Slab for Steel Girders HL-93 Loading	07/03/2017	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-BD(SG)-103	2	Type XXXII Bridge Deck Slab for Steel Girders HL-93 Loading	07/03/2017	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-BD(SG)-104	2	Type XXXIII Bridge Deck Slab for Steel Girders HL-93 Loading	07/03/2017	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-BD(SG)-105	2	Type XXXVIV Bridge Deck Slab for Steel Girders HL-93 Loading	07/03/2017	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-BD(SG)-106	2	Type XXXV Bridge Deck Slab for Steel Girders HL-93 Loading	07/03/2017	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-BD(SG)-107	2	Type XXXVI Bridge Deck Slab for Steel Girders HL-93 Loading	07/03/2017	APPROVED			



Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(SG)-108	2	Type XXXVII Bridge Deck Slab for Steel Girders HL-93 Loading	07/03/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(SG)-109	2	Type XXXVIII Bridge Deck Slab for Steel Girders HL-93 Loading	07/03/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(SG)-110	2	Type XXXIX Bridge Deck Slab for Steel Girders	07/03/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(SG)-201	1	Additional Longitudinal Reinforcing in Top of Continuous Deck Slabs over Piers	09/05/2012	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(SG)-202		Additional Reinforcing for Concrete Bridge Deck Overhang for 42" F-Shape		DRAFT
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(SG)-203		Additional Reinforcing for Concrete Bridge Deck Overhang for Three Strand Rail		DRAFT
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(SG)-204		Additional Reinforcing for Concrete Bridge Deck Overhang for Parapet with Sidewalk		DRAFT
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(SG)-301	1.01	Concrete Diaphragms at Abutments Carrying Steel Girders with Steel Fixed Bearings or Steel Expansion Bearings with Lengths Contributing to Expansion <= 70 Ft.	09/02/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(SG)-401	1.01	Concrete Diaphragms at Abutments Carrying Steel Girders with Steel Expansion Bearings with Lengths Contributing to Expansion > 70 Ft.	09/28/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(SG)-501	1	Steel Forms Which Remain in Place for Concrete Slabs on Steel Stringers	10/18/2011	APPROVED



Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(SG)-502		Lightweight Steel Forms Which Remain in Place for Concrete Slabs on Steel Stringers		DRAFT
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(SG)-601	1	Concrete Haunch Detail – Decks Formed with Timber	05/14/1976	FOR OFFICE USE ONLY
SUB-SECTION 03	Bridge Decl	< Conc Girders		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(CG)-101	1	Bridge Deck Slab - General Notes and Bar Spacing	09/01/2015	USEABLE DRAFT
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(CG)-102	1	Type XLI Bridge Deck Slabs for PCEF Bulb Tee Prestressed Girders HL-93 Loading (Greater than 7'-0" to 8'-0" Girder Spacing)	06/01/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(CG)-103	1	Type XLII Bridge Deck Slabs for PCEF Bulb Tee Prestressed Girders HL-93 Loading (Greater than 8'-0" to 8'-6" Girder Spacing)	06/01/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(CG)-104	1	Type XLIII Bridge Deck Slabs for PCEF Bulb Tee Prestressed Girders HL-93 Loading (Greater than 8'-6" to 9'-0" Girder Spacing)	06/01/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(CG)-105	1	Type XLIV Bridge Deck Slabs for PCEF Bulb Tee Prestressed Girders HL-93 Loading (Greater than 9'-0" to 9'-6" Girder Spacing)	06/01/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(CG)-106	1	Type XLV Bridge Deck Slabs for PCEF Bulb Tee Prestressed Girders HL-93 Loading (Greater than 9'-6" to 10'-0" Girder Spacing)	06/01/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(CG)-107	1	Type XLVI Bridge Deck Slabs for PCEF Bulb Tee Prestressed Girders HL-93 Loading (Greater than 10'-0" to 10'-6" Girder Spacing)	06/01/2018	APPROVED



Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(CG)-108	1	Type XLVII Bridge Deck Slabs for PCEF Bulb Tee Prestressed Girders HL-93 Loading (Greater than 10'-6" to 11'-0" Girder Spacing)	06/01/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(CG)-109	1	Type XLVIII Bridge Deck Slabs for PCEF Bulb Tee Prestressed Girders HL-93 Loading (Greater than 11'-0" to 11'-6" Girder Spacing)	06/01/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(CG)-110	1	Type XLIX Bridge Deck Slabs for PCEF Bulb Tee Prestressed Girders HL-93 Loading (Greater than 11'-6" to 12'-0" Girder Spacing)	06/01/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(CG)-201	1	Additional Longitudinal Reinforcing in Continuous Deck Slabs over Piers for Concrete Girders	09/01/2015	USEABLE DRAFT
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(CG)-301	1	Concrete Diaphragms at Abutments Carrying Prestresed Concrete Girders with Elastomeric Bearings with Lengths Contributing to Expansion > 70 Feet	07/27/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(CG)-401	1	Concrete Diaphragms at Abutments Carrying Prestresed Concrete Girders with Elastomeric Bearings with Lengths Contributing to Expansion <= 70 Feet	07/27/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(CG)-501	1	Steel Forms Which Remain in Place for Concrete Slabs on Concrete Girders	09/01/2015	USEABLE DRAFT
SUB-SECTION 04	Staged Con	struction		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(SC)-101	2	Splicing of Bridge Deck Slab Truss Bars During Stage Construction Lap Splice Alternatives	04/30/2018	APPROVED



Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(SC)-102	2	Splicing of Bridge Deck Slab Reinforcing Steel/Truss Bars During Stage Construction	04/30/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BD(SC)-103	1	Split Pan Construction for Steel Forms Which Remain in Place	07/20/2006	APPROVED
SECTION 02	Traffic Barr	iers (parapets)		
SUB-SECTION 01	42 Fshape I	Parapet		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(42F)-101	1	Level/Low Side/High Side of Crown (or Superelevated) Section of 42″ F-Shape Parapet with Straight Back	11/26/2007	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(42F)-102	1	Level/Low Side/High Side of Crown (or Superelevated) Section of 42" F-Shape Parapet with Diamond Back	11/26/2007	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(42F)-103	1	Level/Low Side/High Side of Crown (or Superelevated) Section of 42" F-Shape Parapet with Architectural Finish	11/26/2007	APPROVED
SUB-SECTION 02	Parapet wit	th Sidewalk		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(SW)-101	1	Level/Low Side/High Side of Crown (or Superelevated) Section of Sidewalk and Parapet with Straight Back	08/18/2014	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(SW)-102	1	Level/Low Side/High Side of Crown (or Superelevated) Section of Sidewalk and Parapet with Diamond Back	08/18/2014	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(SW)-103	1	Level/Low Side/High Side of Crown (or Superelevated) Section of Sidewalk and Parapet with Architectural Finish	08/18/2014	APPROVED



SUB-SECTION 03	Tube Rail			
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(TR)-101	1.01	Three Strand Structural Tube Rail Curb Mounted	04/03/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(TR)-102	1	Three Strand Structural Tube Rail Thrie Beam Connection Plate	02/13/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(TR)-201	1	Bridge Deck Curb Detail for Three Strand Structural Tube Rail	02/10/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(TR)-301	1.01	Precast Concrete Slab Panel Curb Detail for Three Strand Structural Tube Rail	04/30/2018	APPROVED
SUB-SECTION 04	Median Bar	rier		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(MB)-101	1	42" F-Shape Median Barrier for Bridge Without Longitudinal Joint	11/26/2007	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(MB)-102	1	42" F-Shape Median Barrier for Bridge Without Longitudinal Joint Where Traffic Will Use Area Prior to Placing Barrier	06/01/2005	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(MB)-201	1	42" F-Shape Median Barrier For Bridge With Open Longitudinal Joint	11/26/2007	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(MB)-202	1	42" F-Shape Median Barrier for Bridge with Longitudinal Joint Where Traffic Will Use Area Prior to Placing Barrier	11/22/2003	APPROVED
SUB-SECTION 05	Conduit Pla	cement		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(CP)-101	1	Expansion Joint For Conduit in Parapet	01/22/2001	APPROVED



Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(CP)-201	1	Parapet Control Joints and Single Conduit Placement with 42" F- Shape Parapet	03/05/2014	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(CP)-202	1	Parapet Control Joints and Single Conduit Placement on Parapets with Sidewalk	01/06/2016	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(CP)-301	1	Parapet Control Joints and Dual Conduit Placement with 42" F- Shape Parapet	03/05/2014	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(CP)-302	1	Parapet Control Joints and Dual Conduit Placement on Parapets with Sidewalk	01/06/2016	APPROVED
<b>UB-SECTION</b> 06	Miscellane	ous Details		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(MISC)-101	1	Additional Reinforcing for Slip Forming Parapets and Median Barriers	11/22/2003	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(MISC)-201	1	Parapet Reinforcing Steel Placement at Expansion Joint	01/18/2005	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-TB(MISC)-301	1	Concrete Barrier Delineator	11/22/2003	APPROVED
ECTION 03	Support Br	rackets		
UB-SECTION 01	42 Fshape	Parapet		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SB(42F)-101	1	Support Bracket for Bridge Mounted Light Post with Single Conduit and 42'' F-Shape Parapet with Straight Back	01/09/2008	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SB(42F)-102	1	Support Bracket for Bridge Mounted Light Post with Single Conduit and 42'' F-Shape Parapet with Diamond Back	01/09/2008	APPROVED



Detail Number	Version	Detail Description	Date Issued	Status
SUP-SB(42F)-103	1	Support Bracket for Bridge Mounted Light Post with Single Conduit and 42" F-Shape Parapet with Architectural Finish	01/09/2008	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SB(42F)-201	1	Support Bracket for Bridge Mounted Light Post with Dual Conduits and 42" F-Shape Parapet with Straight Back	01/09/2008	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SB(42F)-202	1	Support Bracket for Bridge Mounted Light Post with Dual Conduits and 42" F-Shape Parapet with Diamond Back	01/09/2008	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SB(42F)-203	1	Support Bracket for Bridge Mounted Light Post with Dual Conduits and 42" F-Shape Parapet with Architectural Finish	01/09/2008	APPROVED
SUB-SECTION 02	Parapet wit	n Sidewalk		
Detail Number	Version	Detail Description	Date Issued	Status
Detail Number	Version 1	Detail Description Support Bracket for Bridge Mounted Light Post with Single Conduit and Parapet with Straight Back and Sidewalk	Date Issued 06/01/2005	Status APPROVED
		Support Bracket for Bridge Mounted Light Post with Single		
SUP-SB(SW)-101	1	Support Bracket for Bridge Mounted Light Post with Single Conduit and Parapet with Straight Back and Sidewalk	06/01/2005	APPROVED
SUP-SB(SW)-101	1 Version	Support Bracket for Bridge Mounted Light Post with Single Conduit and Parapet with Straight Back and Sidewalk Detail Description Support Bracket for Bridge Mounted Light Post with Single	06/01/2005 Date Issued	APPROVED
SUP-SB(SW)-101 Detail Number SUP-SB(SW)-102	1 Version 1	Support Bracket for Bridge Mounted Light Post with Single Conduit and Parapet with Straight Back and Sidewalk Detail Description Support Bracket for Bridge Mounted Light Post with Single Conduit and Parapet with Diamond Back and Sidewalk	06/01/2005 Date Issued 06/01/2005	APPROVED Status APPROVED
SUP-SB(SW)-101 Detail Number SUP-SB(SW)-102 Detail Number	1 Version 1 Version	Support Bracket for Bridge Mounted Light Post with Single Conduit and Parapet with Straight Back and Sidewalk Detail Description Support Bracket for Bridge Mounted Light Post with Single Conduit and Parapet with Diamond Back and Sidewalk Detail Description Support Bracket for Bridge Mounted Light Post with Single	06/01/2005 Date Issued 06/01/2005 Date Issued	APPROVED Status Status
SUP-SB(SW)-101 Detail Number SUP-SB(SW)-102 Detail Number SUP-SB(SW)-103	1 Version 1 Version	Support Bracket for Bridge Mounted Light Post with Single Conduit and Parapet with Straight Back and Sidewalk Detail Description Support Bracket for Bridge Mounted Light Post with Single Conduit and Parapet with Diamond Back and Sidewalk Detail Description Support Bracket for Bridge Mounted Light Post with Single Conduit and Parapet with Architectural Finish and Sidewalk	06/01/2005 Date Issued 06/01/2005 Date Issued 06/01/2005	APPROVED Status Status APPROVED
SUP-SB(SW)-101 Detail Number SUP-SB(SW)-102 Detail Number SUP-SB(SW)-103	1 Version 1 Version 1	Support Bracket for Bridge Mounted Light Post with Single Conduit and Parapet with Straight Back and Sidewalk Detail Description Support Bracket for Bridge Mounted Light Post with Single Conduit and Parapet with Diamond Back and Sidewalk Detail Description Support Bracket for Bridge Mounted Light Post with Single Conduit and Parapet with Architectural Finish and Sidewalk Detail Description Support Bracket for Bridge Mounted Light Post with Dual Conduits	06/01/2005 Date Issued 06/01/2005 Date Issued Date Issued	APPROVED Status Status APPROVED Status



Detail Number	Version	Detail Description	Date Issued	Status
SUP-SB(SW)-203	1	Support Bracket for Bridge Mounted Light Post with Dual Conduits and Parapet with Architectural Finish and Sidewalk	06/01/2005	APPROVED

SECTION 04	Fence and Railing					
SUB-SECTION 01	Fencing					
Detail Number	Version	Detail Description	Date Issued	Status		
SUP-FR(FN)-101	2	Layout of Fencing on Bridges	07/27/2018	FOR OFFICE USE ONLY		
Detail Number	Version	Detail Description	Date Issued	Status		
SUP-FR(FN)-201	1	Chain Link Safety Fence - New Structures General Notes	10/09/2007	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SUP-FR(FN)-202	1	Type I Chain Link Safety Fence - New Structures	09/24/2013	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SUP-FR(FN)-203	1	Type II Chain Link Safety Fence for New Structures with 34" or 42" F-Shape Parapet	09/24/2013	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SUP-FR(FN)-204	1	Chain Link Safety Fence - New Structures Miscellaneous Details	01/22/2001	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SUP-FR(FN)-205	1	Anti-Climb Shield for Chain Link Safety Fences - Types I and II	09/24/2013	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SUP-FR(FN)-301	1	Chain Link Safety Fence Retaining Walls and Box Culverts General Notes	07/24/2001	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SUP-FR(FN)-302	1	Type III Chain Link Safety Fence Retaining Walls and Box Culverts	01/14/2014	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SUP-FR(FN)-401	1	Ornamental Fence General Notes	02/10/2017	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SUP-FR(FN)-402	1	3 Foot Ornamental Fence Details	02/10/2017	APPROVED		



Detail Number	Version	Detail Description	Date Issued	Status
SUP-FR(FN)-403	1	5 Foot Ornamental Fence Details	02/10/2017	APPROVED
SUB-SECTION 02	Railing			
Detail Number	Version	Detail Description	Date Issued	Status
SUP-FR(RL)-101	1	Layout of Railing on Bridges	06/01/2005	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-FR(RL)-201	1	One Strand Bridge Railing	08/01/2018	APPROVED
SUB-SECTION 03	Railroad Ba	arrier		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-FR(RR)-101	1	Protective Barrier For Portion of Bridge Over Electrified Railroad	05/13/2013	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-FR(RR)-102	1	Protective Barrier for Portion of Bridge over Electrified Railroad with Sidewalk	04/15/2011	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
Detail Number SUP-FR(RR)-201	Version 1	Detail Description Electrified Territory Danger Sign	Date Issued 01/22/2001	APPROVED
		Electrified Territory Danger Sign		
SUP-FR(RR)-201	1	Electrified Territory Danger Sign		
SUP-FR(RR)-201 SECTION 05	1 Structural	Electrified Territory Danger Sign		
SUP-FR(RR)-201 SECTION 05 SUB-SECTION 01	1 Structural General	Electrified Territory Danger Sign Steel	01/22/2001	APPROVED
SUP-FR(RR)-201 SECTION 05 SUB-SECTION 01 Detail Number	1 Structural 1 General Version	Electrified Territory Danger Sign Steel Detail Description	01/22/2001 Date Issued	APPROVED
SUP-FR(RR)-201 SECTION 05 SUB-SECTION 01 Detail Number SUP-SS(GEN)-101	1 Structural General Version 1	Electrified Territory Danger Sign Steel Detail Description Steel Stud Shear Developer Embedment Detail	01/22/2001 Date Issued 09/08/1976	APPROVED Status APPROVED
SUP-FR(RR)-201 SECTION 05 SUB-SECTION 01 Detail Number SUP-SS(GEN)-101 Detail Number	1 Structural General Version 1 Version	Electrified Territory Danger Sign Steel Detail Description Steel Stud Shear Developer Embedment Detail Detail Description	01/22/2001	APPROVED Status Status Status
SUP-FR(RR)-201 SECTION 05 SUB-SECTION 01 Detail Number SUP-SS(GEN)-101 Detail Number SUP-SS(GEN)-201	1 Structural General Version 1 Version 1	Electrified Territory Danger Sign Steel Detail Description Steel Stud Shear Developer Embedment Detail Detail Description Stiffener Attachment Details for Steel Girders	01/22/2001	APPROVED Status APPROVED Status FOR OFFICE USE ONLY
SUP-FR(RR)-201 SECTION 05 SUB-SECTION 01 Detail Number SUP-SS(GEN)-101 Detail Number SUP-SS(GEN)-201 Detail Number	1 Structural 2 General Version 1 Version 1 Version	Electrified Territory Danger Sign  Electrified Territory Sign  Electrifi	Date Issued 09/08/1976 Date Issued 10/09/2007 Date Issued	APPROVED Status APPROVED Status FOR OFFICE USE ONLY Status



SUP-SS(CF)-501

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Detail Number SUP-SS(GEN)-204 Detail Number	Version 1 Version	Detail Description Steel Seat Plates/Angles for Skewed Concrete Diaphragms Detail Description	Date Issued 03/07/2013 Date Issued	Status APPROVED Status
SUP-SS(GEN)-301	1	Typical Steel Stringer Splice Detail	10/09/2007	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SS(GEN)-401	1	Shop Splice Details for Plate Girder Stringers	08/16/1992	APPROVED
SUB-SECTION 02	Cross Fram	es		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SS(CF)-101	1	Rolled Steel Beams Intermediate Diaphragm Details Welded and Bolted Connections	01/22/2003	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SS(CF)-201		Cross Frame Layout Skew Angle is Less Than 70 Degrees		DRAFT
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SS(CF)-202		Cross Frame Layout Skew Angle is Greater Than or Equal to 70 Degrees or Radial Supports		DRAFT
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SS(CF)-301		Intermediate Cross Frames for Fabricated Steel Girders (K Frame)		DRAFT
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SS(CF)-302		Intermediate Cross Frames for Fabricated Steel Girders (X Frame)		DRAFT
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SS(CF)-401		Cross Frames at Piers where Fabricated Structural Steel Girders are Continuous (K Frame)		DRAFT
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SS(CF)-402		Cross Frames at Piers where Fabricated Structural Steel Girders are Continuous (X Frame)		DRAFT
Detail Number	Version	Detail Description	Date Issued	Status

**Cross Frame Connections** 

DRAFT



Detail Number	Version	Detail Description	Date Issued	Status
SUP-SS(CF)-502		Weld Termination Details for Cross Frames		DRAFT
SUB-SECTION 03	Deck Repla	cements		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SS(DR)-101	1	Roadway Joint - Clip Angle Detail - Deck Replacement - Existing Stringer	07/24/2001	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SS(DR)-201	1	Fascia Stringer Closure Plate Detail	06/03/1976	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SS(DR)-301	1	Detail of Existing Spiral Removal	05/19/2011	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SS(DR)-302	1	Detail of Additional Reinforcment at Existing Shear Stud Developers or Addition of Stud Extensions	05/19/2011	APPROVED
SECTION 06	Concrete G	irder		
SECTION 06 SUB-SECTION 01	Concrete G General	irder		
		Detail Description	Date Issued	Status
SUB-SECTION 01	General		Date Issued 05/04/2017	Status FOR OFFICE USE ONLY
SUB-SECTION 01	General Version	Detail Description Typical Non-Prestressing Reinforcing Detail for PCEF Bulb Tee		
SUB-SECTION 01 Detail Number SUP-CG(GEN)-101	General <sub>Version</sub> 1	Detail Description Typical Non-Prestressing Reinforcing Detail for PCEF Bulb Tee Prestressed Concrete Girders	05/04/2017	FOR OFFICE USE ONLY
SUB-SECTION 01 Detail Number SUP-CG(GEN)-101 Detail Number	General Version 1 Version	Detail Description Typical Non-Prestressing Reinforcing Detail for PCEF Bulb Tee Prestressed Concrete Girders Detail Description Section Properties for PCEF Bulb Tee Prestressed Concrete Girders	<b>05/04/2017</b> Date Issued	FOR OFFICE USE ONLY
SUB-SECTION 01 Detail Number SUP-CG(GEN)-101 Detail Number SUP-CG(GEN)-201	General Version 1 Version 1	Detail Description Typical Non-Prestressing Reinforcing Detail for PCEF Bulb Tee Prestressed Concrete Girders Detail Description Section Properties for PCEF Bulb Tee Prestressed Concrete Girders with 7" Thick Bottom Flanges	05/04/2017 Date Issued 05/04/2017	FOR OFFICE USE ONLY Status FOR OFFICE USE ONLY
SUB-SECTION 01 Detail Number SUP-CG(GEN)-101 Detail Number SUP-CG(GEN)-201 Detail Number	General Version 1 Version 1 Version	Detail Description Typical Non-Prestressing Reinforcing Detail for PCEF Bulb Tee Prestressed Concrete Girders Detail Description Section Properties for PCEF Bulb Tee Prestressed Concrete Girders with 7" Thick Bottom Flanges Detail Description Section Properties for PCEF Bulb Tee Prestressed Concrete Girders	05/04/2017 Date Issued 05/04/2017 Date Issued	FOR OFFICE USE ONLY Status Status



Detail Number	Version	Detail Description	Date Issued	Status
SUP-CG(GEN)-302	1	Typical Spacing of Prestressing Strands for PCEF Bulb Tee Prestressed Concrete Girders with 9" Thick Bottom Flanges	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-CG(GEN)-401	1	Prestressed Concrete Girder Top Finish and Stirrup Embedment Detail	05/04/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-CG(GEN)-501	1	Lifting Device Details for Prestressed Concrete Girders	05/04/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-CG(GEN)-601	1	Pier Connection Details for PCEF Bulb Tee Prestressed Concrete Girders with 7" Thick Bottom Flanges	05/04/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-CG(GEN)-602	1	Pier Connection Details for PCEF Bulb Tee Prestressed Concrete Girders with 9" Thick Bottom Flanges	05/04/2017	APPROVED
SUB-SECTION 02	Intermedia	te Diaphragms		

SUB-SECTION 02	Intermediate	e Diaphragms		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-CG(DIA)-101	1	Intermediate Diaphragm for 29" and 31" PCEF Bulb Tee Girder	12/13/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-CG(DIA)-102	1	Intermediate Diaphragm for 37" and 39" PCEF Bulb Tee Girder	12/13/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-CG(DIA)-103	1	Intermediate Diaphragm for 45" and 47" PCEF Bulb Tee Girder	12/13/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-CG(DIA)-104	1	Intermediate Diaphragm for 53" through 63" PCEF Bulb Tee Girder	12/13/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-CG(DIA)-105	1	Intermediate Diaphragm for 69" and 71" PCEF Bulb Tee Girder	12/13/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-CG(DIA)-106	1	Intermediate Diaphragm for 77" through 87" PCEF Bulb Tee Girder	12/13/2017	APPROVED
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Detail Number

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Detail Description

SUP-CG(DIA)-107	1	Intermediate Diaphragm for 93" and 95" PCEF Bulb Tee Girder	12/13/2017	APPROVED				
SECTION 07	Concrete SI	Concrete Slabs						
SUB-SECTION 01	General							
Detail Number	Version	Detail Description	Date Issued	Status				
SUP-SLAB-101	1	Precast Concrete Slab Panel General Notes	02/15/2017	APPROVED				
Detail Number	Version	Detail Description	Date Issued	Status				
SUP-SLAB-102	1	Precast Concrete Slab Panel Slab Erection Sequence of Operations	02/15/2017	APPROVED				
Detail Number	Version	Detail Description	Date Issued	Status				
SUP-SLAB-103	1.01	Precast Concrete Slab Panel Concrete Overlay Squence of Operations	04/25/2017	APPROVED				
Detail Number	Version	Detail Description	Date Issued	Status				
SUP-SLAB-201	1	Precast Slab Unit and Tie Rod Layout Slabs 30' and Less	02/15/2017	FOR OFFICE USE ONLY				
Detail Number	Version	Detail Description	Date Issued	Status				
SUP-SLAB-202	1	Precast Slab Unit and Tie Rod Layout Slabs Greater Than 30' up to 50'	02/15/2017	FOR OFFICE USE ONLY				
Detail Number	Version	Detail Description	Date Issued	Status				
SUP-SLAB-203	1	Precast Slab Unit and Tie Rod Layout Slabs Greater Than 50'	02/15/2017	FOR OFFICE USE ONLY				
Detail Number	Version	Detail Description	Date Issued	Status				
SUP-SLAB-301	1	Precast Slab Unit and Tie Rod Layout Slabs 30' and Less with Staged Construction	02/15/2017	FOR OFFICE USE ONLY				
Detail Number	Version	Detail Description	Date Issued	Status				
SUP-SLAB-302	1	Precast Slab Unit and Tie Rod Layout Slabs Greater Than 30' up to 50' with Staged Construction	02/15/2017	FOR OFFICE USE ONLY				
Detail Number	Version	Detail Description	Date Issued	Status				
SUP-SLAB-303	1	Precast Slab Unit and Tie Rod Layout Slabs Greater Than 50' with Staged Construction	02/15/2017	FOR OFFICE USE ONLY				

Date Issued

Status



Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB-401	1.01	Precast Concrete Slab Units Tie-Rod Details	08/11/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB-501	1	Precast Concrete Slab Panel Shear Key Details	02/15/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB-601	1.02	Precast Concrete Slab Unit Detail at Abutment	05/12/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB-602	1	Precast Concrete Slab Curb Joint Details	02/15/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB-701	1.01	Precast Concrete Slab Panel Bridge Overlay Reinforcement Details	04/30/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB-801	1	Precast Concrete Slab Panel Lifting Devices Location and Working Load	02/15/2017	APPROVED

#### SUB-SECTION 02 3ft slabs Detail Number Version Detail Description Date Issued Status SUP-SLAB(3FT)-050 Simple Span Interior/Exterior 3'-0" Precast Concrete Slab Panel 05/04/2017 1 FOR OFFICE USE ONLY Diagram and Notes for Camber Detail Number Detail Description Date Issued Version Status Simple Span 20'-0" or Less Interior 3'-0" Precast Concrete Slab SUP-SLAB(3FT)-101 05/04/2017 FOR OFFICE USE ONLY 1 Panel Detail Number Version Detail Description Date Issued Status Simple Span 20'-0" or Less Exterior 3'-0" Precast Concrete Slab SUP-SLAB(3FT)-102 05/04/2017 FOR OFFICE USE ONLY 1 Panel Detail Number Detail Description Date Issued Status Version SUP-SLAB(3FT)-103 1 Simple Span 20'-0" or Less 3'-0" Precast Concrete Slab Panel 05/04/2017 FOR OFFICE USE ONLY Skewed End Detail



Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-201	1	Simple Span Greater than 20'-0" to 25'-0" Interior 3'-0" Precast Concrete Slab Panel	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-202	1	Simple SpanGreater than 20'-0" to 25'-0" Exterior 3'-0" Precast Concrete Slab Panel	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-203	1	Simple Span Greater than 20'-0" to 25'-0" - 3'-0" Precast Concrete Slab Panel Skewed End Detail	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-301	1	Simple Span Greater than 25'-0" to 30'-0" Interior 3'-0" Precast Concrete Slab Panel	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-302	1	Simple SpanGreater than 25'-0" to 30'-0" Exterior 3'-0" Precast Concrete Slab Panel	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-303	1	Simple Span Greater than 25'-0" to 30'-0" - 3'-0" Precast Concrete Slab Panel Skewed End Detail	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-401	1	Simple Span Greater than 30'-0" to 35'-0" Interior 3'-0" Precast Concrete Slab Panel	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-402	1	Simple SpanGreater than 30'-0" to 35'-0" Exterior 3'-0" Precast Concrete Slab Panel	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-403	1	Simple Span Greater than 30'-0" to 35'-0" - 3'-0" Precast Concrete Slab Panel Skewed End Detail	05/04/2017	FOR OFFICE USE ONLY



Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-501	1	Simple Span Greater than 35'-0" to 40'-0" Interior 3'-0" Precast Concrete Slab Panel	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-502	1	Simple Span Greater than 35'-0" to 40'-0" Exterior 3'-0" Precast Concrete Slab Panel	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-503	1	Simple Span Greater than 35'-0" to 40'-0" - 3'-0" Precast Concrete Slab Panel Skewed End Detail	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-601	1	Simple Span Greater than 40'-0" to 45'-0" Interior 3'-0" Precast Concrete Slab Panel	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-602	1	Simple Span Greater than 40'-0" to 45'-0" Exterior 3'-0" Precast Concrete Slab Panel	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-603	1	Simple Span Greater than 40'-0" to 45'-0" - 3'-0" Precast Concrete Slab Panel Skewed End Detail	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-701	1	Simple Span Greater than 45'-0" to 50'-0" Interior 3'-0" Precast Concrete Slab Panel	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-702	1	Simple Span Greater than 45'-0" to 50'-0" Exterior 3'-0" Precast Concrete Slab Panel	05/04/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(3FT)-703	1	Simple Span Greater than 45'-0" to 50'-0" - 3'-0" Precast Concrete Slab Panel Skewed End Detail	05/04/2017	FOR OFFICE USE ONLY



	Version	Detail Description	Date Issued	Status
(3FT)-801	1	Simple Span Greater than 50'-0" to 55'-0" Interior 3'-0" Precast Concrete Slab Panel	05/04/2017	FOR OFFICE USE ONLY
	Version	Detail Description	Date Issued	Status
(3FT)-802	1.01	Simple Span Greater than 50'-0" to 55'-0" Exterior 3'-0" Precast Concrete Slab Panel	08/11/2017	FOR OFFICE USE ONLY
	Version	Detail Description	Date Issued	Status
(3FT)-803	1	Simple Span Greater than 50'-0" to 55'-0" - 3'-0" Precast Concrete Slab Panel Skewed End Detail	05/04/2017	FOR OFFICE USE ONLY
	(3FT)-801 (3FT)-802 (3FT)-803	(3FT)-801 1 Version (3FT)-802 1.01 Version	(3FT)-8011Simple Span Greater than 50'-0" to 55'-0" Interior 3'-0" Precast Concrete Slab Panel(3FT)-8021.01Detail Description(3FT)-8031Simple Span Greater than 50'-0" to 55'-0" Exterior 3'-0" Precast Concrete Slab PanelVersionDetail DescriptionSimple Span Greater than 50'-0" to 55'-0" Exterior 3'-0" Precast Concrete Slab PanelVersionDetail Description(3FT)-8031Simple Span Greater than 50'-0" to 55'-0" - 3'-0" Precast Concrete	(3FT)-8011Simple Span Greater than 50'-0" to 55'-0" Interior 3'-0" Precast Concrete Slab Panel05/04/2017(3FT)-802Detail DescriptionDate Issued(3FT)-8021.01Simple Span Greater than 50'-0" to 55'-0" Exterior 3'-0" Precast Concrete Slab Panel08/11/2017VersionDetail DescriptionDate IssuedVersionDetail DescriptionDate IssuedVersionDetail DescriptionDate Issued(3FT)-8031Simple Span Greater than 50'-0" to 55'-0" - 3'-0" Precast Concrete05/04/2017

#### SUB-SECTION 03 4ft slabs Detail Number Version Detail Description Date Issued Status Simple Span Interior/Exterior 4'-0" Precast Concrete Slab Panel 05/12/2017 FOR OFFICE USE ONLY SUP-SLAB(4FT)-050 1 Diagram and Notes for Camber Detail Number Detail Description Date Issued Status Version Simple Span 20'-0" or Less Interior 4'-0" Precast Concrete Slab SUP-SLAB(4FT)-101 1 05/12/2017 FOR OFFICE USE ONLY Panel Detail Number Version Detail Description Date Issued Status Simple Span 20'-0" or Less Exterior 4'-0" Precast Concrete Slab SUP-SLAB(4FT)-102 1 05/12/2017 FOR OFFICE USE ONLY Panel Detail Number Version Detail Description Date Issued Status SUP-SLAB(4FT)-103 Simple Span 20'-0" or Less 4'-0" Precast Concrete Slab Panel 05/12/2017 FOR OFFICE USE ONLY 1 Skewed End Detail Detail Description Date Issued Detail Number Version Status Simple Span Greater than 20'-0" to 25'-0" Interior 4'-0" Precast 05/12/2017 SUP-SLAB(4FT)-201 FOR OFFICE USE ONLY 1 **Concrete Slab Panel** Detail Description Detail Number Version Date Issued Status Simple SpanGreater than 20'-0" to 25'-0" Exterior 4'-0" Precast SUP-SLAB(4FT)-202 05/12/2017 FOR OFFICE USE ONLY 1

**Concrete Slab Panel** 



Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-203	1	Simple Span Greater than 20'-0" to 25'-0" - 4'-0" Precast Concrete Slab Panel Skewed End Detail	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-301	1	Simple Span Greater than 25'-0" to 30'-0" Interior 4'-0" Precast Concrete Slab Panel	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-302	1	Simple SpanGreater than 25'-0" to 30'-0" Exterior 4'-0" Precast Concrete Slab Panel	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-303	1	Simple Span Greater than 25'-0" to 30'-0" - 4'-0" Precast Concrete Slab Panel Skewed End Detail	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-401	1	Simple Span Greater than 30'-0" to 35'-0" Interior 4'-0" Precast Concrete Slab Panel	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-402	1	Simple SpanGreater than 30'-0" to 35'-0" Exterior 4'-0" Precast Concrete Slab Panel	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-403	1	Simple Span Greater than 30'-0" to 35'-0" - 4'-0" Precast Concrete Slab Panel Skewed End Detail	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-501	1	Simple Span Greater than 35'-0" to 40'-0" Interior 3'-0" Precast Concrete Slab Panel	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-502	1	Simple Span Greater than 35'-0" to 40'-0" Exterior 3'-0" Precast Concrete Slab Panel	05/12/2017	FOR OFFICE USE ONLY



Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-503	1	Simple Span Greater than 35'-0" to 40'-0" - 3'-0" Precast Concrete Slab Panel Skewed End Detail	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-601	1	Simple Span Greater than 40'-0" to 45'-0" Interior 4'-0" Precast Concrete Slab Panel	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-602	1	Simple Span Greater than 40'-0" to 45'-0" Exterior 4'-0" Precast Concrete Slab Panel	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-603	1	Simple Span Greater than 40'-0" to 45'-0" - 4'-0" Precast Concrete Slab Panel Skewed End Detail	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-701	1	Simple Span Greater than 45'-0" to 50'-0" Interior 4'-0" Precast Concrete Slab Panel	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-702	1	Simple Span Greater than 45'-0" to 50'-0" Exterior 4'-0" Precast Concrete Slab Panel	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-703	1	Simple Span Greater than 45'-0" to 50'-0" - 4'-0" Precast Concrete Slab Panel Skewed End Detail	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-801	1	Simple Span Greater than 50'-0" to 55'-0" Interior 4'-0" Precast Concrete Slab Panel	05/12/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SLAB(4FT)-802	1	Simple Span Greater than 50'-0" to 55'-0" Exterior 4-0" Precast Concrete Slab Panel	05/12/2017	FOR OFFICE USE ONLY



Detail Number	Version	Detail Description	Date Issued	Status			
SUP-SLAB(4FT)-803	1	Simple Span Greater than 50'-0" to 55'-0" - 4'-0" Precast Concrete Slab Panel Skewed End Detail	05/12/2017	FOR OFFICE USE ONLY			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-SLAB(4FT)-901	1	4'-0" Precast Concrete Slab Panel Alternate Reinforcing Details	05/12/2017	FOR OFFICE USE ONLY			
SECTION 08	Bridge Deck	< Joints					
SUB-SECTION 01	Joint Const	ruction Details					
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(JC)-101	1	Roadway Joint Splices for Sequential Construction	01/09/2011	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(JC)-102	1	Roadway Joint Angle Shop Splices for Non-Sequential Construction	09/16/2011	APPROVED			
SUB-SECTION 02	Joint Seal D	Joint Seal Details					
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(JS)-101	1	Compression Seal Joint and Retainer Angle Detail	09/24/2015	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(JS)-102	1	Preformed Compression Seal Selection Chart	10/01/1982	FOR OFFICE USE ONLY			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(JS)-201	1	Silicone Seal Joint and Retainer Angle Detail	03/07/2013	APPROVED			
SUB-SECTION 03	Fixed Joints	5					
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(FIX)-101	1	Roadway Joint at Abutments Carrying Steel Griders with Steel Fixed Bearing or Steel Expansion Bearings with Length Contributing to Exansion <= 70 Feet	03/18/2014	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(FIX)-201	1	Roadway Joint at Abutments Carrying Prestessed Griders with Elastomeric Fixed Bearing or Expansion Bearings with Length Contributing to Exansion <= 70 Feet	02/24/2017	APPROVED			



Detail Number	Version	Detail Description	Date Issued	Status
SUP-JT(FIX)-301	1.01	Full Height Roadway Joint For 42" F-Shape Parapet for Bridge with Fixed Bearings or Expansion Bearings with Length Contributing to Expansion <= 70 Ft.	05/07/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-JT(FIX)-401	1	Full Height Roadway Joint for Sidewalks for Bridge with Fixed Bearings or Expansion Bearings with Length Contributing to Expansion <= 70 Ft.	02/24/2017	APPROVED

SUB-SECTION 04	Expansion .	loints		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-JT(EXP)-101	1.01	Roadway Joint at Abutments Carrying Steel Griders with Steel Expansion Bearings with Length Contributing to Exansion > 70 Feet	04/03/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-JT(EXP)-201	1.01	Roadway Joint at Abutments Carrying Prestressed Concrete Griders with Elastomeric Expansion Bearings with Length Contributing to Exansion > 70 Feet	04/03/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-JT(EXP)-301	1	Full Height Roadway Joint For 42" F-Shape Parapet for Bridge with Expansion Bearings with Length Contributing to Expansion > 70 Ft.	03/29/2012	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-JT(EXP)-401	1	Full Height Roadway Joint For Sidewalks for Bridge with Expansion Bearings with Length Contributing to Expansion > 70 Ft.	11/15/2013	APPROVED
SUB-SECTION 05	Finger Join	t Details		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-JT(FJ)-101	1	Finger Joint Details (42" F-Shape Parapet) for Bridges with Steel Stringers with Skew Angles Between 50° and 90°	07/19/2006	APPROVED



SUB-SECTION 06	Modified J	Modified Joint Details					
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(MJ)-101	1	Modified Existing Bridge Deck Expansion Joint At Abutments	01/07/2002	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(MJ)-102	1	Modified Existing Bridge Deck Expansion Joint At Piers	01/07/2002	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(MJ)-201	1	Modified Existing Bridge Deck Non-Armored Expansion Joint at Abutments	01/22/2001	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(MJ)-202	1	Modified Existing Bridge Deck Non-Armored Expansion Joint At Piers	01/17/1997	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(MJ)-301	1	Modified Existing Bridge Armored Joint At Walkway	11/17/1997	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(MJ)-302	1	Modified Existing Bridge Non-Armored Joint At Walkway	09/09/1982	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(MJ)-303	1	Modified Existing Bridge Non-Armored Joint at Parapet (No Walkway)	06/21/1994	APPROVED			
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(MJ)-401	1	Compression Seal Roadway Joints At Piers	07/19/2006	APPROVED			
SUB-SECTION 07	Drainage T	Drainage Trough Details					
Detail Number	Version	Detail Description	Date Issued	Status			
SUP-JT(DT)-101	1	Drainage Trough Catch Basin	02/26/2015	APPROVED			



SECTION 09	Bearings			
SUB-SECTION 01	Bearing Stee	21		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BR(SB)-101	2	Fixed Bearing Short Length Spans (Grade 50 Steel)	04/03/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BR(SB)-102	2	Expansion Bearing Short Length Spans (Grade 50 Steel)	04/03/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BR(SB)-103	2	Fixed Bearing Medium Length Spans (Grade 50 Steel)	04/03/2018	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BR(SB)-104	2	Bronze Expansion Bearing Medium Length Spans (Grade 50 Steel)	04/03/2018	APPROVED
SUB-SECTION 02	Elastomeric	Bearings		
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BR(EB)-101	1	Bearings for Prestressed Concrete Girders General Notes	02/23/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BR(EB)-102	1	Expansion Bearings for PCEF Bulb Tee Prestressed Concrete Girders	02/23/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-BR(EB)-103	1	Fixed Bearings for PCEF Bulb Tee Prestressed Concrete Girders	02/23/2017	APPROVED
SECTION 10	Scuppers			
SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SC-101	1	Type I Bridge Scupper	04/17/2018	RESCINDED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SC-102	1	Type IA Bridge Scupper	01/22/2001	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SC-103	1	Type II Bridge Scupper	01/22/2001	APPROVED



Detail Number	Version	Detail Description	Date Issued	Status
SUP-SC-104	1	Type III Bridge Scupper	06/13/2001	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SC-105	1	Type IV Bridge Scupper	07/14/2008	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SC-106	1	Type V Bridge Scupper	07/14/2008	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SC-201	1	Scupper Downspout Support Bracket for Short Cast Iron Scupper Downspout	07/14/2008	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SC-202	1	Scupper Downspout Support Bracket for Long Cast Iron Scupper Downspout	07/14/2008	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SC-301	1	Bridge Deck Reinforcement Pattern in Scupper Area for Scupper Types I and IA at F-Shape Parapet with Straight Back	10/22/2003	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SC-302	1	Bridge Deck Reinforcement Pattern in Scupper Area for Scupper Types I and IA at F-Shape Parapet with Diamond Back	10/22/2003	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SC-303	1	Bridge Deck Reinforcement Pattern in Scupper Area for Scupper Types I and IA at F-Shape Parapet with Architectural Finish	10/22/2003	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SC-304	1	Bridge Deck Reinforcement Pattern in Scupper Area for Scupper Types I, IA, IV and V at Sidewalk	08/07/1998	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SUP-SC-401	1	Splash Blocks for Scupper Outlets	01/22/2001	APPROVED



CHAPTER 04	Maintenance of Traffic			
SECTION				
SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
MOT-101	1	Temporary Precast Single Face F-Type Concrete Barrier	01/21/2013	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
MOT-102	1	Temporary Precast Double Face F- Type Concrete Barrier	10/21/2013	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
MOT-201	1	Detail of Temporary Slab Underpinning During Stage Construction	10/09/2007	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
MOT-301	1	Temporary Movable Barricade	07/24/2007	APPROVED



CHAPTER 05	Retainin	g Walls		
SECTION				
SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
RW-101	1	Standard Retaining Wall - General Notes	03/21/2014	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
RW-102	1	Type A Retaining Wall Section (for Excellent Soil Condition and Two Foot Surcharge)	12/04/2013	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
RW-103	1	Type B Retaining Wall Section (for Good Soil Condition and Two Foot Surcharge)	12/04/2013	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
RW-104	1	Type C Retaining Wall Section (for Poor Soil Condition and Two Foot Surcharge)	12/04/2013	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
RW-105	1	Type D Retaining Wall Section (for Excellent Soil Condition and Sloping Groundline)	12/04/2013	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
RW-106	1	Type E Retaining Wall Section (for Good Soil Condition and Sloping Groundline)	12/04/2013	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
RW-107	1	Type F Retaining Wall Section (for Poor Soil Condition and Sloping Groundline)	12/04/2013	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
RW-108	1	Type G Retaining Wall Section (for Pile Footing and Two Foot Surcharge)	12/04/2013	APPROVED



Detail Number	Version	Detail Description	Date Issued	Status
RW-109	1	Type H Retaining Wall Section (for Pile Footing and Sloping Groundline)	11/13/2007	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
RW-201	1	Standard Retaining Wall Standard Details	07/16/2002	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
RW-301	1	Retaining Wall and Wing Wall Drainage Systems	01/22/2001	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
RW-401	1	Concrete Retaining Wall Contraction and Expansion Joints	05/04/2006	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
RW-402	1	Stepped Footing Detail	08/28/2002	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
RW-403	1	Stepped Footing Detail with Piles	07/16/2002	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
RW-501	1	Reinforcement Adjustment At Utility And/Or Pipe Opening In Wall	07/02/1993	FOR OFFICE USE ONLY



CHAPTER 06	Box Culverts			
SECTION				
SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
BC-101	1	Box Culvert Headwall and Toewall Details	10/09/2007	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
BC-102	1	Headwall For Multi-Celled Box Culvert Groove Details	06/20/1975	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
BC-201	1	Contraction Joint For Box Culvert Barrel	01/17/1997	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
BC-202	1	Box Culvert Wing Wall Construction Joint	10/09/2007	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
BC-301	1	Expansion Joint For Box Culvert Barrel	03/22/2006	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
BC-302	1	Box Culvert Wing Wall Expansion Joint	10/09/2007	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
BC-401	1	Typical Section For Single Box Culvert	10/09/2007	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
BC-402	1	Typical Section Multi-Celled Box Culvert	10/09/2007	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
BC-501	1	Tie-In Detail for Box Culvert Bottom Slab and Wing Wall Footing	10/09/2007	APPROVED



CHAPTER 07	Reinforcing Details			
SECTION 01	Bar Laps			
SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
REBAR-BL-101	1	Bar Lap Dimensions for Grade 60 Reinforcing Steel in Mix No. 3 (3500 P.S.I.) Concrete	03/21/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
REBAR-BL-102	1	Bar Lap Dimensions for Grade 60 Reinforcing Steel in Lightweight (4500 P.S.I.) Concrete	03/21/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
REBAR-BL-103	1	Bar Lap Dimensions for Grade 60 Reinforcing Steel In Mix No. 6 (4500 P.S.I.) Concrete	03/21/2017	APPROVED
SECTION 02	Developme	nt Length		
SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
REBAR-DL-101	1	Development Length Dimensions for Grade 60 Reinforcing Steel in Mix No. 3 (3500 P.S.I.) Concrete	03/21/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
REBAR-DL-102	1	Development Length Dimensions for Grade 60 Reinforcing Steel in Lightweight (4500 P.S.I.) Concrete	03/21/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
REBAR-DL-103	1	Development Length Dimensions for Grade 60 Reinforcing Steel in Mix No. 6 (4500 P.S.I.) Concrete	03/21/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
REBAR-DL-201	1	Development Length Dimensions of Hooked Bars for Grade 60 Reinforcing Steel in Mix No. 3 (3500 P.S.I.) Concrete	05/10/2011	APPROVED



Detail Number	Version	Detail Description	Date Issued	Status
REBAR-DL-202	1	Development Length Dimensions of Hooked Bars for Grade 60 Reinforcing Steel in Lightweight (4500 P.S.I.) Concrete	05/10/2011	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
REBAR-DL-203	1	Development Length Dimensions of Hooked Bars for Grade 60 Reinforcing Steel in Mix No. 6 (4500 P.S.I.) Concrete	05/10/2011	APPROVED

SECTION 03	Bar Bends			
SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
REBAR-BB-101	1	Bar Bend Types	02/10/1994	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
REBAR-BB-102	1	Reinforcing Steel Hook Tables and Diagrams	11/17/1997	APPROVED
SECTION 04	Existing Re	inforcing		
SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
REBAR-ER-101	1	Splicing to Existing Reinforcing Steel	11/26/2007	APPROVED



CHAPTER 08	Aestheti	ics		
SECTION				
SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
AES-101	1	Groove Detail for Substructure Elements	03/14/1994	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
AES-201	1	Trapezoidal Striation Details for Bridge Substructure Units and Retaining Walls	10/22/2003	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
AES-202	1	Trapezoidal Striation Layout for Bridge Substructure Units and Retaining Walls	10/22/2003	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
AES-203	1	Trapezoidal Striation Corner Details	01/22/2001	APPROVED



CHAPTER 09	Structure Inventory				
SECTION					
SUB-SECTION					
Detail Number	Version	Detail Description	Date Issued	Status	
SI-101	1	Location of Year Built Marking and Structure Inventory Number on Bridges	10/17/2013	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SI-102	1.01	Small Structure Sign and Placement Details	07/27/2018	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SI-103	1	Location of Year Built Marking and Structure Inventory Number on Headwalls for Pipes and Box Culverts	10/17/2013	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SI-104	1	Location of Year Built Marking and Structure Inventory Number on Retaining Walls	10/17/2013	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SI-201	1	Numerals for Year Built Marking on Structures	09/14/1999	APPROVED	



CHAPTER 11	Structure Repairs				
SECTION 01	Steel Repai	irs			
SUB-SECTION 01	Fatigue Rep	pairs			
Detail Number	Version	Detail Description	Date Issued	Status	
SR-ST(FR)-101	1.01	Fatigue Crack Repairs for Structural Steel	08/11/2017	APPROVED	
SUB-SECTION 02	Gouge Rep	airs			
Detail Number	Version	Detail Description	Date Issued	Status	
SR-ST(GR)-101	1	Gouge Repair Details	06/28/2017	APPROVED	
SUB-SECTION 03	Bearing Sti	ffener Retrofits			
Detail Number	Version	Detail Description	Date Issued	Status	
SR-ST(BSR)-101	1	Bearing Stiffener Plating - General Notes	06/28/2017	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SR-ST(BSR)-102	1	Exterior/Interior Girder/Beam End Bearing Stiffener Plating Details - Concrete Diaphragm	06/28/2017	APPROVED	
SUB-SECTION 04	Structural F	Retrofits			
Detail Number	Version	Detail Description	Date Issued	Status	
SR-ST(SR)-101	1	Girder/Beam End Plating - General Notes	06/28/2017	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SR-ST(SR)-102	1	Interior Girder/Beam End Plating Details - Concrete Diaphragm	06/28/2017	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SR-ST(SR)-103	1	Interior Girder/Beam End Plating Details - Steel Diaphragm with Deterioration below Diaphragm	06/28/2017	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SR-ST(SR)-104	1	Exterior Girder/Beam End Plating Outside Face without Stiffener Details - Concrete Diaphragm	06/28/2017	APPROVED	



Detail Number	Version	Detail Description	Date Issued	Status
SR-ST(SR)-105	1	Exterior Girder/Beam Beam End Plating Outside Face with Stiffener Details - Concrete Diaphragm	06/28/2017	APPROVED

SUB-SECTION 05	Non-Structural Retrofits					
Detail Number	Version	Detail Description	Date Issued	Status		
SR-ST(NSR)-101	1	Non-Structural Girder/Beam End Plating General Notes	06/28/2017	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SR-ST(NSR)-102	1	Non-Structural Interior Girder/Beam End Plating Details - Concrete Diaphragm	06/28/2017	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SR-ST(NSR)-103	1	Non-Structural Interior Girder/Beam End Plating Details - Steel Diaphragm with Deterioration Below Diaphragm	06/28/2017	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SR-ST(NSR)-104	1	Non-Structural Exterior Girder Beam End Plating Outside Face withour Stiffener Details - Concrete Diaphragm	06/28/2017	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SR-ST(NSR)-105	1	Non-Structural Exterior Girder/Beam End Plating Outside Face with Stiffener Details - Concrete Diaphrgam	06/28/2017	APPROVED		

#### **SUB-SECTION** 06 Heat Straightening Detail Number Version Detail Description Date Issued Status SR-ST(HS)-101 Heat Straightening - General Heating Procedures - Design Guide 06/28/2017 FOR OFFICE USE ONLY 1 Detail Number Version Detail Description Date Issued Status SR-ST(HS)-102 Heat Straightening - Web Straightening Details - Design Field 06/28/2017 FOR OFFICE USE ONLY 1 Measurements Detail Number Version Detail Description Date Issued Status SR-ST(HS)-103 Heat Straightening - General Heating Procedures - Construction 06/28/2017 FOR OFFICE USE ONLY 1 Guide



Detail Number	Version	Detail Description	Date Issued	Status
SR-ST(HS)-104	1	Heat Straightening - Defect Notes	06/28/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SR-ST(HS)-105	1	Heat Straightening - Heating Pattern & Torch Tip Recommendations	06/28/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SR-ST(HS)-106	1	Heat Straightening - Straightening Details - Typical Framing Plan	06/28/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SR-ST(HS)-107	1	Heat Straightening - Flange Straightening Details	06/28/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SR-ST(HS)-108	1	Heat Straightening - Web Straightening Details	06/28/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SR-ST(HS)-109	1	Heat Straightening - Temporary Diaphragm Details	06/28/2017	FOR OFFICE USE ONLY

SECTION 02

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SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
SR-CR-101	1	Cast-In-Place Concrete Sequence and Repair Details (Pier Cap and Pier Column)	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-CR-102	1	Cast-In-Place Concrete Repair to Concrete Diaphragm at Pier	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-CR-103	1	Cast-In-Place Concrete Sequence and Repair Details for Concrete Pier Wall	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-CR-201	1	Pneumatically Applied Mortar Sequence and Repair Details (Pier Cap and Pier Column)	06/28/2017	APPROVED



Detail Number	Version	Detail Description	Date Issued	Status
SR-CR-202	1	Pneumatically Applied Mortar Repair to Concrete Diaphrgam at Pier	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-CR-203	1	Pneumatically Applied Mortar Sequence and Repair Details for	06/28/2017	APPROVED

SECTION 03	Jacking Sys	Jacking Systems				
SUB-SECTION 01	Jacking Bea	Jacking Beam				
Detail Number	Version	Detail Description	Date Issued	Status		
SR-JS(JB)-101	1	Jacking Beam Design Guidelines	06/28/2017	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SR-JS(JB)-102	1	Jacking Details	06/28/2017	APPROVED		
Detail Number	Version	Detail Description	Date Issued	Status		
SR-JS(JB)-103	1	Jacking Beam Jacking Chart	06/28/2017	APPROVED		

### SUB-SECTION 02 Prestressing Bar

Detail Number Version	Detail Description	Date Issued	Status
SR-JS(PSB)-101 1	Prestressing Bar Design Guidelines	06/28/2017	APPROVED
Detail Number Version	Detail Description	Date Issued	Status
SR-JS(PSB)-102 1	Jack Support Assembly for Prestressing Bar Brackets	06/28/2017	APPROVED
Detail Number Version	Detail Description	Date Issued	Status
SR-JS(PSB)-103 1	Single Prestressing Bar Bracket Details (90 degree alignments)	06/28/2017	APPROVED
2K-J2(F2D)-102 I	Single Prestressing bar bracket Details (90 degree anglintents)	00/20/201/	APPROVED
Detail Number Version	Detail Description	Date Issued	Status
SR-JS(PSB)-104 1	Double Prestressing Bar Bracket Details (90 degree alignments)	06/28/2017	APPROVED
51(35(135) 104 1	bouble restressing bar bracket betails (50 degree angriments)	00/20/2017	ATTROVED
Detail Number Version	Detail Description	Date Issued	Status
SR-JS(PSB)-105 1	Cap Plate for Single Prestressing Bar Brackets (skewed alignment)	06/28/2017	APPROVED



Detail Number	Version	Detail Description	Date Issued	Status
SR-JS(PSB)-106	1	Cap Plate for Double Prestressing Bar Brackets (skewed alignment)	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-JS(PSB)-107	1	Prestressing Bar Tensioning and Jacking Chart	06/28/2017	APPROVED
SUB-SECTION 03	Channel Bra	cket		
Detail Number	Version	Detail Description	Date Issued	Status
SR-JS(CB)-101	1	Double Channel Bracket Design Guidelines	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-JS(CB)-102	1	Channel Bracket Jacking Details	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-JS(CB)-103	1	Double Channel Bracket Jacking Chart	06/28/2017	APPROVED
	Culture	Density		
SECTION 04	Substructure	e Repairs		
SUB-SECTION				
SOD-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
	Version 1	Detail Description Fiberglass Protective Pile Jacket for Existing Piles	Date Issued 06/28/2017	Status APPROVED
Detail Number				
Detail Number	1	Fiberglass Protective Pile Jacket for Existing Piles	06/28/2017	APPROVED
Detail Number SR-SUB-101 Detail Number	1 Version	Fiberglass Protective Pile Jacket for Existing Piles	06/28/2017 Date Issued	APPROVED Status
Detail Number SR-SUB-101 Detail Number SR-SUB-102	1 <sup>Version</sup>	Fiberglass Protective Pile Jacket for Existing Piles Detail Description Nylon Form Protective Pile Jacket for Existing Piles	06/28/2017 Date Issued 06/28/2017	APPROVED Status APPROVED
Detail Number SR-SUB-101 Detail Number SR-SUB-102 Detail Number	1 Version 1 Version	Fiberglass Protective Pile Jacket for Existing Piles Detail Description Nylon Form Protective Pile Jacket for Existing Piles Detail Description	06/28/2017 Date Issued 06/28/2017 Date Issued	APPROVED Status APPROVED Status
Detail Number SR-SUB-101 Detail Number SR-SUB-102 Detail Number SR-SUB-201	1 Version 1 Version 1	Fiberglass Protective Pile Jacket for Existing Piles Detail Description Nylon Form Protective Pile Jacket for Existing Piles Detail Description Splice for Connecting Existing Timber Piling to New Timber Piling	06/28/2017 Date Issued 06/28/2017 Date Issued 06/28/2017	APPROVED Status APPROVED Status APPROVED
Detail Number SR-SUB-101 Detail Number SR-SUB-102 Detail Number SR-SUB-201 Detail Number	1 Version 1 Version 1 Version	Fiberglass Protective Pile Jacket for Existing Piles Detail Description Nylon Form Protective Pile Jacket for Existing Piles Detail Description Splice for Connecting Existing Timber Piling to New Timber Piling Detail Description	06/28/2017 Date Issued 06/28/2017 Date Issued 06/28/2017 Date Issued	APPROVED Status APPROVED Status Status
Detail Number SR-SUB-101 Detail Number SR-SUB-102 Detail Number SR-SUB-201 Detail Number	1 Version 1 Version 1 Version	Fiberglass Protective Pile Jacket for Existing Piles Detail Description Nylon Form Protective Pile Jacket for Existing Piles Detail Description Splice for Connecting Existing Timber Piling to New Timber Piling Detail Description Steel Replacement/Temporary Bent for Timber/Concrete	06/28/2017 Date Issued 06/28/2017 Date Issued 06/28/2017 Date Issued	APPROVED Status APPROVED Status Status
Detail Number SR-SUB-101 Detail Number SR-SUB-102 Detail Number SR-SUB-201 Detail Number SR-SUB-301	1 Version 1 Version 1 Version	Fiberglass Protective Pile Jacket for Existing Piles Detail Description Nylon Form Protective Pile Jacket for Existing Piles Detail Description Splice for Connecting Existing Timber Piling to New Timber Piling Detail Description Steel Replacement/Temporary Bent for Timber/Concrete Composite or Concrete Slab Bridges	06/28/2017 Date Issued 06/28/2017 Date Issued 06/28/2017 Date Issued 06/28/2017	APPROVED Status APPROVED Status APPROVED Status
Detail Number SR-SUB-101 Detail Number SR-SUB-102 Detail Number SR-SUB-201 Detail Number SR-SUB-301	1 Version 1 Version 1 Version	Fiberglass Protective Pile Jacket for Existing Piles         Detail Description         Detail Description         Splice for Connecting Existing Timber Piling to New Timber Piling         Detail Description         Steel Replacement/Temporary Bent for Timber/Concrete Composite or Concrete Slab Bridges         Detail Description	06/28/2017 Date Issued 06/28/2017 Date Issued 06/28/2017 Date Issued 06/28/2017	APPROVED Status APPROVED Status APPROVED Status
Detail Number SR-SUB-101 Detail Number SR-SUB-102 Detail Number SR-SUB-201 Detail Number SR-SUB-301 Detail Number SR-SUB-401	1 Version 1 Version 1 Version 1	Fiberglass Protective Pile Jacket for Existing Piles Detail Description Nylon Form Protective Pile Jacket for Existing Piles Detail Description Splice for Connecting Existing Timber Piling to New Timber Piling Detail Description Steel Replacement/Temporary Bent for Timber/Concrete Composite or Concrete Slab Bridges Detail Description Steel Replacement/Temporary Bent for Steel Stringer Bridges	06/28/2017 Date Issued 06/28/2017 Date Issued 06/28/2017 Date Issued 06/28/2017	APPROVED Status APPROVED Status APPROVED Status APPROVED



SECTION 05	Bearing Repairs				
SUB-SECTION					
Detail Number	Version	Detail Description	Date Issued	Status	
SR-BR-101	1	Bearing Shim Details - General Notes	06/28/2017	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SR-BR-102	1	Bearing Shim - Shim Plate Details - Rotation Installation	06/28/2017	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SR-BR-103	1	Bearing Shim - Shim Plate Details - Direct Installation	06/28/2017	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SR-BR-201	1	Sliding Plate Bearing - Supplementary Anchorage System	06/28/2017	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SR-BR-202	1	Rocker Bearing - Supplementary Anchorage System	06/28/2017	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SR-BR-301	1	Elastomeric Restraint System - Steel Beam	06/28/2017	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SR-BR-302	1	Elastomeric Restraint System - Concrete Girder	06/28/2017	APPROVED	
SECTION 06	Scour Erosi	ion Repairs			
SUB-SECTION					
Detail Number	Version	Detail Description	Date Issued	Status	
SR-SCOUR-101	1	Grout Bag Installation General Notes	06/28/2017	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SR-SCOUR-102	1	Grout Bag Installation for Undermined Areas at Piers and Abutments General Notes	06/28/2017	APPROVED	
Detail Number	Version	Detail Description	Date Issued	Status	
SR-SCOUR-103	1	Grout Bag Section (various cases)	06/28/2017	APPROVED	



Detail Number	Version	Detail Description	Date Issued	Status
SR-SCOUR-201	1	Grout Bag Section - Case where Scour and Underpinning has Occurred at Headwall (without Apron)	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-SCOUR-202	1	Grout Bag Section - Case where Scour and Underpinning has Occurred at Headwall (with Apron)	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-SCOUR-301	1	Riprap Underpinning and Armoring Section	06/28/2017	APPROVED
SECTION 07	Roadway Jo	oint Repairs		
SUB-SECTION 01	Retainer Ba	ar		
Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(RB)-101	1.01	Compression Seal Gland Replacement - Armored Joint	04/30/2018	APPROVED
SUB-SECTION 02	Pourable Se	eals		
Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(PS)-101	1	Installing Pourable Joint Seals for Existing Bridge Decks with Armored Joints	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(PS)-102	1	Installing Pourable Joint Seals for Existing Bridge Decks with Non- Armored Joints	06/28/2017	APPROVED
SUB-SECTION 03	Silicone Joi	nt Seals		
Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(SJ)-101	1	Preformed Silicone Joint Seals with Primer for Existing Bridge Decks with Armored Joints (Joint Opening < 4")	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(SJ)-102	1	Preformed Silicone Joint Seals with Primer for Existing Bridge Decks with NonArmored Joints (Joint Opening < 4")	06/28/2017	APPROVED



Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(SJ)-103	1	Preformed Silicone Joint Seal Installation (Joint Opening >4")	06/28/2017	APPROVED
SUB-SECTION 04	Parapet C	urb Seals		
Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(PCS)-101	1	Installing Parapet/Curb Joint Seals for Existing Bridge Decks with Non-Armored Joints	06/28/2017	APPROVED
SUB-SECTION 05	Roadway	Angle		
Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(RA)-101	1	Roadway Angle Repair Details (Deck - Armored Joint)	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(RA)-102	1	Roadway Angle Repair Details (Backwall - Non-Armored Joint)	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(RA)-103	1	Roadway Angle Repair Details (Backwall - Armored Joint)	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(RA)-104	1	Roadway Angle Repair Details (Backwall - Angle Joint - Seal Side)	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(RA)-105	1	Roadway Angle Repair Details (Backwall - Armored Joint - Approach Side)	06/28/2017	APPROVED
SUB-SECTION 06	Finger Joir	nt Repairs		
Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(FJ)-101	1	Finger Joint Details - Bolt Repair for Bridge with Skew Angles between 50 and 90 degrees	06/28/2017	APPROVED
SUB-SECTION 07 Draina		Frough		
Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(DT)-101	1	Drainage Trough Detail at Pier For Existing Structure	06/28/2017	APPROVED



Paved Inverts

Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(DT)-201	1.01	Drainage Trough Detail at Abutment For Existing Structure	08/11/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-JT(DT)-301	1	Details for Replacing Sections of Existing Neoprene Drainage Troughs	06/28/2017	APPROVED

### SECTION 08

SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-101	1	Design Guidelines for Invert Paving	06/28/2017	FOR OFFICE USE ONLY
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-102	1.01	Invert Paving of Existing Pipe - General Notes	08/11/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-103	1.01	Invert Paving of Existing Pipe - General Notes (Project with E&S Permit)	08/11/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-104	1	Invert Paving of Existing Pipe - Construction Notes	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-105	1	Invert paving of Existing Pipe - Notice to Contractor	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-106	1	Invert paving of Existing Pipe - Notice to Contractor (Project with E&S Permit)	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-107	1	Invert paving of Existing Pipe - Sequence of Construction	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-108	1	Invert paving of Existing Pipe - Sequence of Construction (Project with E&S Permit)	06/28/2017	APPROVED



Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-201	1	Invert Paving of Existing Circular Metal Pipe	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-202	1	Invert Paving of Existing Metal Pipe Arch	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-203	1	Invert Paving of Existing Circular Concrete Pipe	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-204	1	Invert Paving of Existing Concrete Pipe Arch	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-205	1	Invert Paving of Existing Box Culvert	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-206	1	Invert Paving of Existing Box Culvert with Curtain Wall	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-207	1	Invert Paving of Existing Rigid Frame Culvert	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-301	1	Invert Paving of Existing Circular Metal Pipe with Drop Inlet Pipe	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-302	1	Invert Paving of Existing Metal Arch Pipe with Drop Inlet Pipe	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-303	1	Invert Paving of Existing Box Culvert with Drop Inlet Pipe	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-401	1	Invert Paving Extensions of Existing Circular Metal Pipe with Previous Invert Paving	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-402	1	Invert Paving Extensions of Existing Metal Pipe Arch with Previous Invert Paving	06/28/2017	APPROVED



Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-501	1	Pipe Plating of Existing Circular Metal Pipe around Defective Joints and Circumferential Deterioration	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-502	1	Pipe Plating of Existing Metal Pipe Arch around Defective Joints and Circumferential Deterioration	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-503	1	Pipe Plating of Existing Circular Metal Pipe for Isolated Defects	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PI-504	1	Pipe Plating of Existing Metal Pipe Arch for Isolated Defects	06/28/2017	APPROVED

SECTION 09 Pipe and Culvert Lining

#### **SUB-SECTION**

Detail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-1011.01Lining of Existing Culvert - General Notes08/11/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-1021Lining of Existing Culvert - Construction Notes06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-1031Lining of Existing Culvert - Notice to Contractors06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2011Lining of Existing Culvert - Sequence of Construction - Using Existing Pipes for Stream DiversionDate IssuedStatusDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2021Lining of Existing Culvert - Sequence of Construction - Using Trench in Pavement for Stream DiversionDate IssuedStatusDetail NumberVersionDetail DescriptionDate					
Detail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-1021Lining of Existing Culvert - Construction Notes06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-1031Lining of Existing Culvert - Notice to Contractors06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2011Lining of Existing Culvert - Sequence of Construction - Using Existing Pipes for Stream Diversion06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2021Lining of Existing Culvert - Sequence of Construction - Using Trench in Pavement for Stream DiversionDate IssuedStatusDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2031Lining of Existing Culvert - Sequence of Construction - Using Trench in Pavement for Stream DiversionDate IssuedStatusDetail NumberVersionDetail DescriptionDate IssuedStatusDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2031Lining of Existing Culvert - Sequence of Construction - Using HoseDate IssuedStatusSR-PCL-2031Lining of Existing Culvert - Sequence of Constructi	Detail Number	Version	Detail Description	Date Issued	Status
SR-PCL-1021Lining of Existing Culvert - Construction Notes06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-1031Lining of Existing Culvert - Notice to Contractors06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2011Lining of Existing Culvert - Sequence of Construction - Using Existing Pipes for Stream Diversion06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2021Lining of Existing Culvert - Sequence of Construction - Using Trench in Pavement for Stream DiversionDate IssuedStatusSR-PCL-2031Lining of Existing Culvert - Sequence of Construction - Using Hose06/28/2017APPROVEDSR-PCL-2031Lining of Existing Culvert - Sequence of Construction - Using Hose06/28/2017APPROVED	SR-PCL-101	1.01	Lining of Existing Culvert - General Notes	08/11/2017	APPROVED
Detail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-1031Lining of Existing Culvert - Notice to Contractors06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2011Lining of Existing Culvert - Sequence of Construction - Using Existing Pipes for Stream Diversion06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2021Lining of Existing Culvert - Sequence of Construction - Using Trench in Pavement for Stream Diversion06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2021Lining of Existing Culvert - Sequence of Construction - Using Trench in Pavement for Stream DiversionDate IssuedStatusDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2031Lining of Existing Culvert - Sequence of Construction - Using Hose06/28/2017APPROVED	Detail Number	Version	Detail Description	Date Issued	Status
SR-PCL-1031Lining of Existing Culvert - Notice to Contractors06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2011Lining of Existing Culvert - Sequence of Construction - Using Existing Pipes for Stream Diversion06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2021Lining of Existing Culvert - Sequence of Construction - Using Trench in Pavement for Stream Diversion06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2021Lining of Existing Culvert - Sequence of Construction - Using Trench in Pavement for Stream DiversionDate IssuedStatusDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2031Lining of Existing Culvert - Sequence of Construction - Using Hose06/28/2017APPROVED	SR-PCL-102	1	Lining of Existing Culvert - Construction Notes	06/28/2017	APPROVED
Detail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2011Lining of Existing Culvert - Sequence of Construction - Using Existing Pipes for Stream Diversion06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2021Lining of Existing Culvert - Sequence of Construction - Using Trench in Pavement for Stream Diversion06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2021Lining of Existing Culvert - Sequence of Construction - Using Trench in Pavement for Stream Diversion06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusRecord NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2031Lining of Existing Culvert - Sequence of Construction - Using Hose06/28/2017APPROVED	Detail Number	Version	Detail Description	Date Issued	Status
SR-PCL-2011Lining of Existing Culvert - Sequence of Construction - Using Existing Pipes for Stream Diversion06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2021Lining of Existing Culvert - Sequence of Construction - Using Trench in Pavement for Stream Diversion06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2021Lining of Existing Culvert - Sequence of Construction - Using Trench in Pavement for Stream DiversionDate IssuedStatusSR-PCL-2031Lining of Existing Culvert - Sequence of Construction - Using Hose06/28/2017APPROVED	SR-PCL-103	1	Lining of Existing Culvert - Notice to Contractors	06/28/2017	APPROVED
Existing Pipes for Stream DiversionDetail NumberVersionDate IssuedStatusSR-PCL-2021Lining of Existing Culvert - Sequence of Construction - Using Trench in Pavement for Stream Diversion06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2031Lining of Existing Culvert - Sequence of Construction - Using Hose06/28/2017APPROVED	Detail Number	Version	Detail Description	Date Issued	Status
SR-PCL-2021Lining of Existing Culvert - Sequence of Construction - Using Trench in Pavement for Stream Diversion06/28/2017APPROVEDDetail NumberVersionDetail DescriptionDate IssuedStatusSR-PCL-2031Lining of Existing Culvert - Sequence of Construction - Using Hose06/28/2017APPROVED	SR-PCL-201	1		06/28/2017	APPROVED
Detail Number       Version       Detail Description       Date Issued       Status         SR-PCL-203       1       Lining of Existing Culvert - Sequence of Construction - Using Hose       06/28/2017       APPROVED	Detail Number	Version	Detail Description	Date Issued	Status
SR-PCL-203 1 Lining of Existing Culvert - Sequence of Construction - Using Hose 06/28/2017 APPROVED	SR-PCL-202	1		06/28/2017	APPROVED
	Detail Number	Version	Detail Description	Date Issued	Status
	SR-PCL-203	1		06/28/2017	APPROVED



Detail Number	Version	Detail Description	Date Issued	Status
SR-PCL-204	1	Lining of Existing Culvert - Sequence of Construction - Using Adjacent Stream for Stream Diversion	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PCL-301	1	Pipe Lining of Existing Culvert - Circular Metal Pipe	06/28/2017	APPROVED
Detail Number	Version	Detail Description	Date Issued	Status
SR-PCL-302	1	Pipe Lining of Existing Culvert - Metal Pipe Arch	06/28/2017	APPROVED
SECTION 10	Retaining	Wall Repairs		
SUB-SECTION				
Detail Number	Version	Detail Description	Date Issued	Status
SR-RW-101	1	MSE Panel Joint Repairs	06/28/2017	APPROVED
SECTION 11	Noise Wall	Renairs		
SECTION II				
SUB-SECTION				
	Version	Detail Description	Date Issued	Status
SUB-SECTION			Date Issued 06/28/2017	Status APPROVED
SUB-SECTION Detail Number	Version	Detail Description		
SUB-SECTION Detail Number SR-NW-101	Version 1	Detail Description Noise Wall Panel Restraint Detail - General Notes	06/28/2017	APPROVED
SUB-SECTION Detail Number SR-NW-101 Detail Number	Version 1 Version	Detail Description Noise Wall Panel Restraint Detail - General Notes Detail Description	<b>06/28/2017</b> Date Issued	APPROVED Status
SUB-SECTION Detail Number SR-NW-101 Detail Number SR-NW-102	Version 1 Version 1	Detail Description Noise Wall Panel Restraint Detail - General Notes Detail Description Noise Wall Panel Restraint Detail - Wedge	06/28/2017 Date Issued 06/28/2017	APPROVED Status APPROVED
SUB-SECTION Detail Number SR-NW-101 Detail Number SR-NW-102 Detail Number	Version 1 Version 1 Version	Detail Description Noise Wall Panel Restraint Detail - General Notes Detail Description Noise Wall Panel Restraint Detail - Wedge Detail Description	06/28/2017 Date Issued 06/28/2017 Date Issued	APPROVED Status APPROVED Status
SUB-SECTION Detail Number SR-NW-101 Detail Number SR-NW-102 Detail Number SR-NW-103	Version 1 Version 1 Version 1	Detail Description Noise Wall Panel Restraint Detail - General Notes Detail Description Noise Wall Panel Restraint Detail - Wedge Detail Description Noise Wall Panel Restraint Detail - Stand Alone Concrete Posts	06/28/2017 Date Issued 06/28/2017 Date Issued 06/28/2017	APPROVED Status APPROVED Status APPROVED
SUB-SECTION Detail Number SR-NW-101 Detail Number SR-NW-102 Detail Number SR-NW-103 Detail Number	Version 1 Version 1 Version 1 Version	Detail Description Noise Wall Panel Restraint Detail - General Notes Detail Description Noise Wall Panel Restraint Detail - Wedge Detail Description Noise Wall Panel Restraint Detail - Stand Alone Concrete Posts Detail Description Noise Wall Panel Restraint Detail - Concrete Noise Wall with	06/28/2017 Date Issued 06/28/2017 Date Issued 06/28/2017 Date Issued	APPROVED Status APPROVED Status APPROVED Status



Detail Number	Version	Detail Description	Date Issued	Status
SR-NW-106	1	Noise Wall Panel Restraint Detail - Skewed Panel Connection - Special Steel Posts	06/28/2017	APPROVED
SECTION 12	Miscellane	ous Repairs		
SUB-SECTION 01	Traffic Plating			
Detail Number	Version	Detail Description	Date Issued	Status
SR-MISC(TP)-101		Traffic Plating Details		DRAFT
SUB-SECTION 05	Safety Fend	ce Handrail		
Detail Number	Version	Detail Description	Date Issued	Status
SR-MISC(SFH)-101		Safety Fence Handrail		DRAFT



CHAPTER 12	Miscella	neous			
SECTION					
SUB-SECTION					
Detail Number	Version	Detail Description	Date Issued	Status	
MISC-101		Diversion Detail using Precast Concrete Blocks		DRAFT	