



CONSTRUCTION LEADERS

LETTER OF TRANSMITTAL	
DATE: September 11, 2015	PCL JOB NO: 5515002
ATTN: Chris Barker	TRANSMITTAL NO: 097

To: **State of Vermont Agency of Transportation**
 One National Life Drive
 Montpelier, VT 05633-5001
 (802) 828-0053

Re: Hartford Lateral Slide
 Project No.: IM 091-2(79)
 Contract ID.: 12A132

County: Windsor PCL FILE NO: 5515002-051.3

WE ARE SENDING Attached Under separate cover via **Email & SP** the following:
 Shop drawings Prints Plans Samples Specifications
 Copy of Letter Change Order Other

COPIES	SPEC.	REVISION	DESCRIPTION
1	529	3	Removal of Existing Structures – SB Bridge

TRANSMITTED for as checked below:

For approval Approved as submitted Resubmit Copies for approval
 For your use Approved as noted Submit Copies for distribution
 As requested Returned for corrections Return Corrected prints
 For review and comment

Remarks:

The included demolition plans for the SB Bridge have been revised as a result of conditions encountered during the demolition of the NB Bridge. This revised submittal is for the SB Bridge only.

Please return an email of this approved submittal to Erich Heymann (ewheymann@pcl.com) and Jeremy Mackling (jmackling@pcl.com).

We request the review and return of this submittal within **2 days**. Please advise if this request cannot be met so we can plan accordingly.

By: **Erich Heymann**, Project Engineer

COPY TO: Project Files



CONSTRUCTION LEADERS

SUBMITTAL NO. : 51.3
Removal of Existing Structures – SB Bridge

Item No.	Specification	Description
1	529	Removal of Existing Structures - SB Bridge

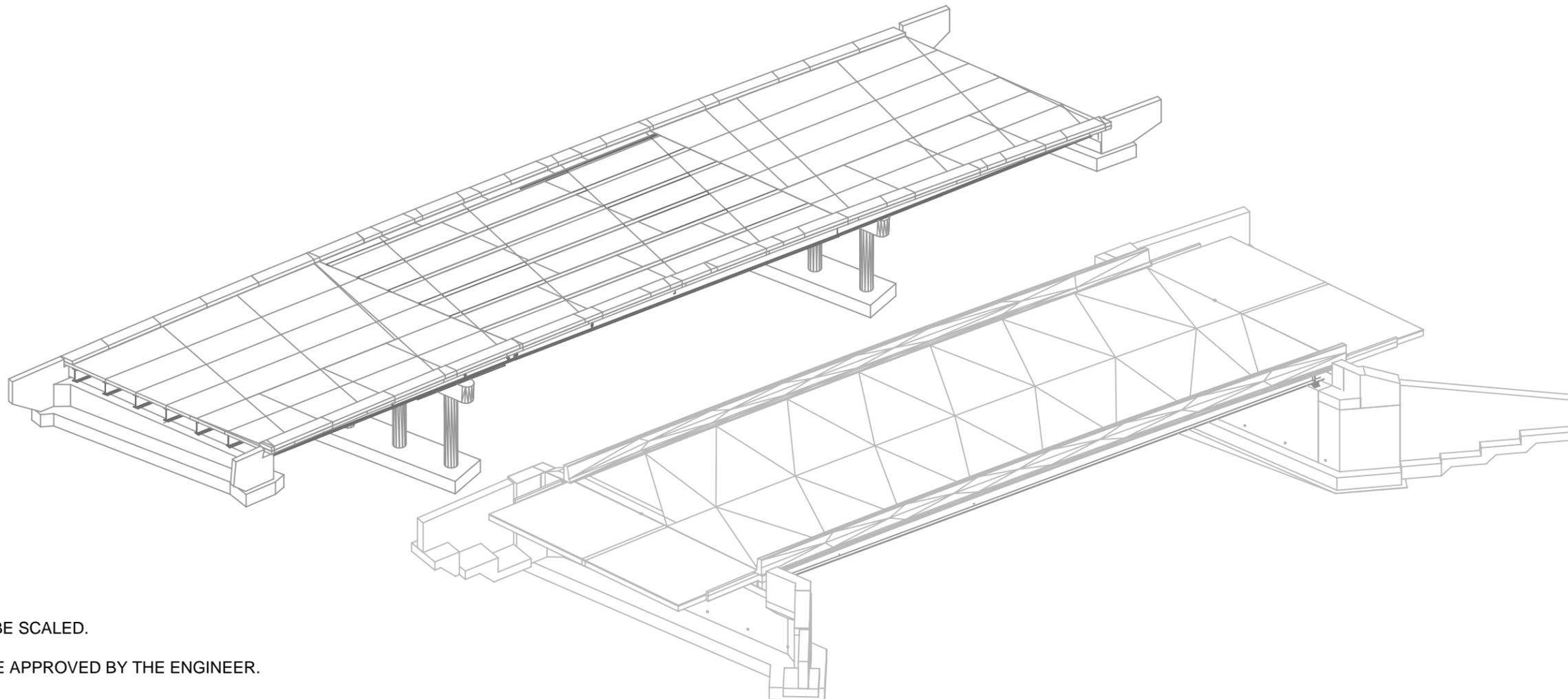
PROJECT:
HARTFORD LATERAL SLIDE
PROJECT NO.: IM 091-2(79)
CONTRACT ID.: 12A132

OWNER:
STATE OF VERMONT AGENCY OF TRANSPORTATION

ENGINEER OF RECORD:
STATE OF VERMONT AGENCY OF TRANSPORTATION

CONTRACTOR:
PCL CIVIL CONSTRUCTORS, INC.

SEPTEMBER 11, 2015



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ANY CHANGES SHALL BE APPROVED BY THE ENGINEER.

MATERIALS SHALL BE NEW OR IN GOOD CONDITION AND APPROVED BY THE DESIGN ENGINEER.

ALL WELDS ARE TO FOLLOW CURRENT AWS STANDARDS.

ALL WORK OVER US-5 TO BE PERFORMED UNDER FLAGGING OPERATIONS PER THE TRAFFIC CONTROL PLAN.

DEMOLITION SEQUENCE BASED ON REMOVAL OF SUSPENDED SPAN AND END SPAN DECK PRIOR TO END SPAN STEEL REMOVAL.

CRANE CONFIGURATIONS ARE AS FOLLOWS:

- ALL RT CRANES ON 100% OUTRIGGER EXTENSION
- LINK-BELT LS-248H I ABC+A COUNTERWEIGHT
- LINK BELT 298 HSL ABCDE+A COUNTERWEIGHT

EXISTING SOUTHBOUND BRIDGE DEMOLITION PLAN

DESIGN AIDS

- ASD NINTH ED. (STEEL)
- AASHTO GUIDE DESIGN SPECIFICATIONS FOR BRIDGE TEMPORARY WORKS

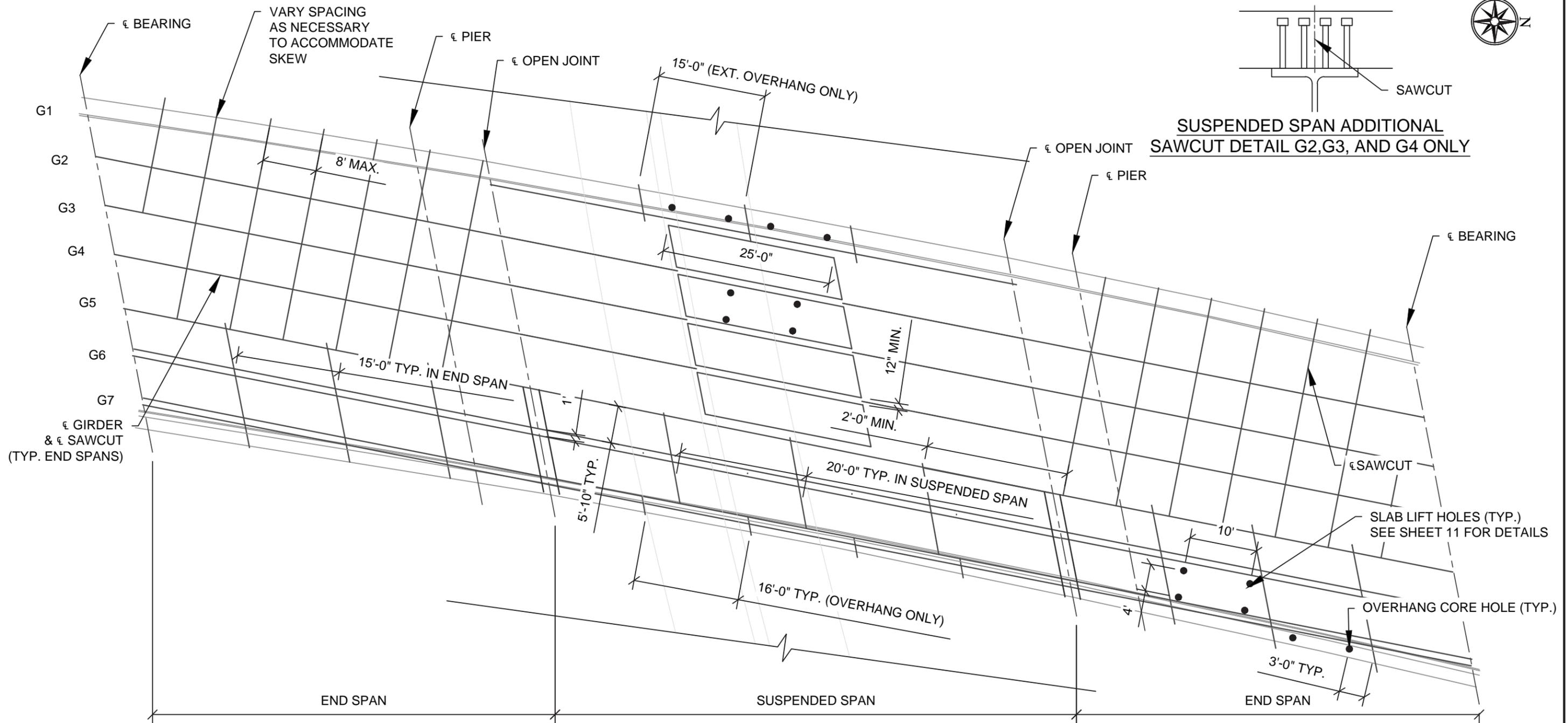
MATERIAL PROPERTIES

- STEEL
- PLATE, MISC.
 - ASTM A36 Fy = 36 ksi MIN

LIST OF DRAWINGS

TITLE SHEET	01
SAWCUT LAYOUTS	02
RIGGING DETAILS	08
PIER CAP DEMO DETAIL	13
SB SEQUENCE	14

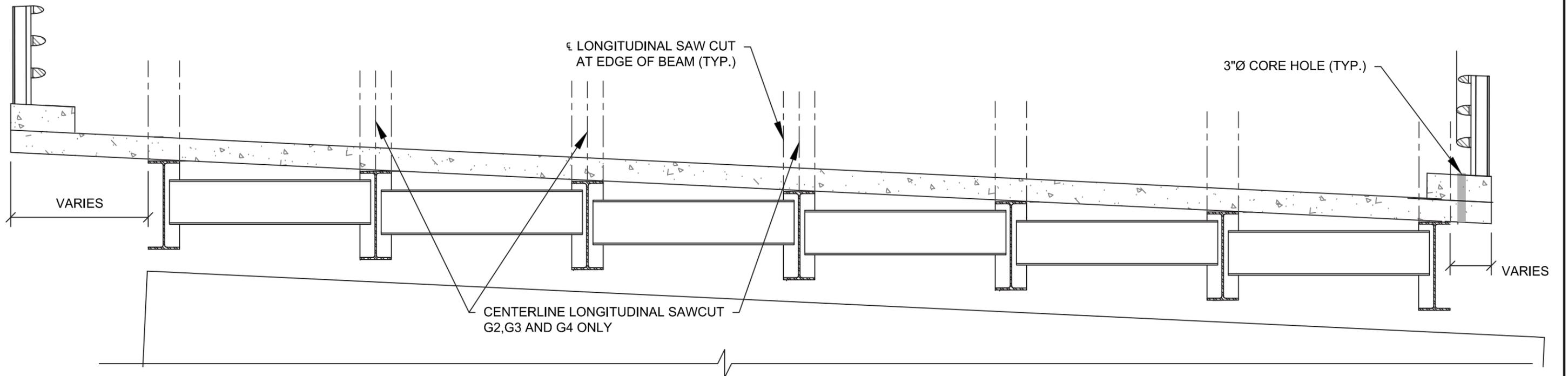
Revision No. & Date		Vermont Agency of Transportation			Drawing Status		Name		Date		PCL Civil Constructors, Inc.		
					Tim Davis, P.E. Sep 10 2015 9:00 PM FOR CONSTRUCTION		Drawn By AJT		09/03/15		3810 Northdale Blvd. Suite 200, Tampa Florida 33624 (813)-264-9500 ; Fax: (813)-264-6689		
Road No.	County / City	Financial Project ID No.				Design By		TMD/ AJT		09/03/15		Submittal SB DEMOLITION PLAN	PCL Project / Job No. I-91 Windsor / Hartford / 5514001
I-91	Windsor / Hartford	IM 091-2(79)				Check By		TMD		09/08/15		Drawing Title TITLE PAGE AND GENERAL NOTES	Sheet No. 01



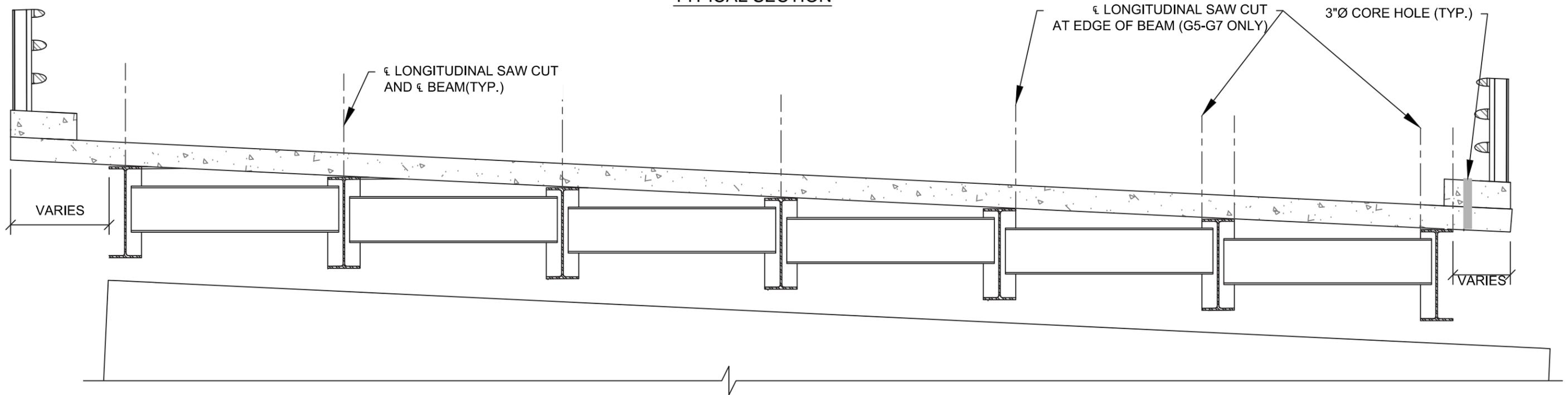
SB SAWCUT LINES

Revision No. & Date	Vermont Agency of Transportation				Drawing Status	Name	Date	PCL Civil Constructors, Inc. 3810 Northdale Blvd. Suite 200, Tampa Florida 33624 (813)-264-9500 ; Fax: (813)-264-6689		
	Road No.	County / City	Financial Project ID No.		Sep 10 2015 8:58 PM FOR CONSTRUCTION	Drawn By	AJT	09/03/15	Submittal DEMOLITION PLAN	PCL Project / Job No. I-91 Windsor / Hartford / 5514001
	I-91	Windsor / Hartford	IM 091-2(79)			Design By	TMD/ AJT	09/03/15	Drawing Title SB SAWCUT LAYOUT	Sheet No. 02
					Check By	TMD	09/08/15			

N:\Projects\Office\Engineering\01_TG_Tampa Active Projects\5514001 - I-91 Windsor\01 Demolition\01 CAD Files\Drawings\SB.dwg 9/8/2015 8:37 PM

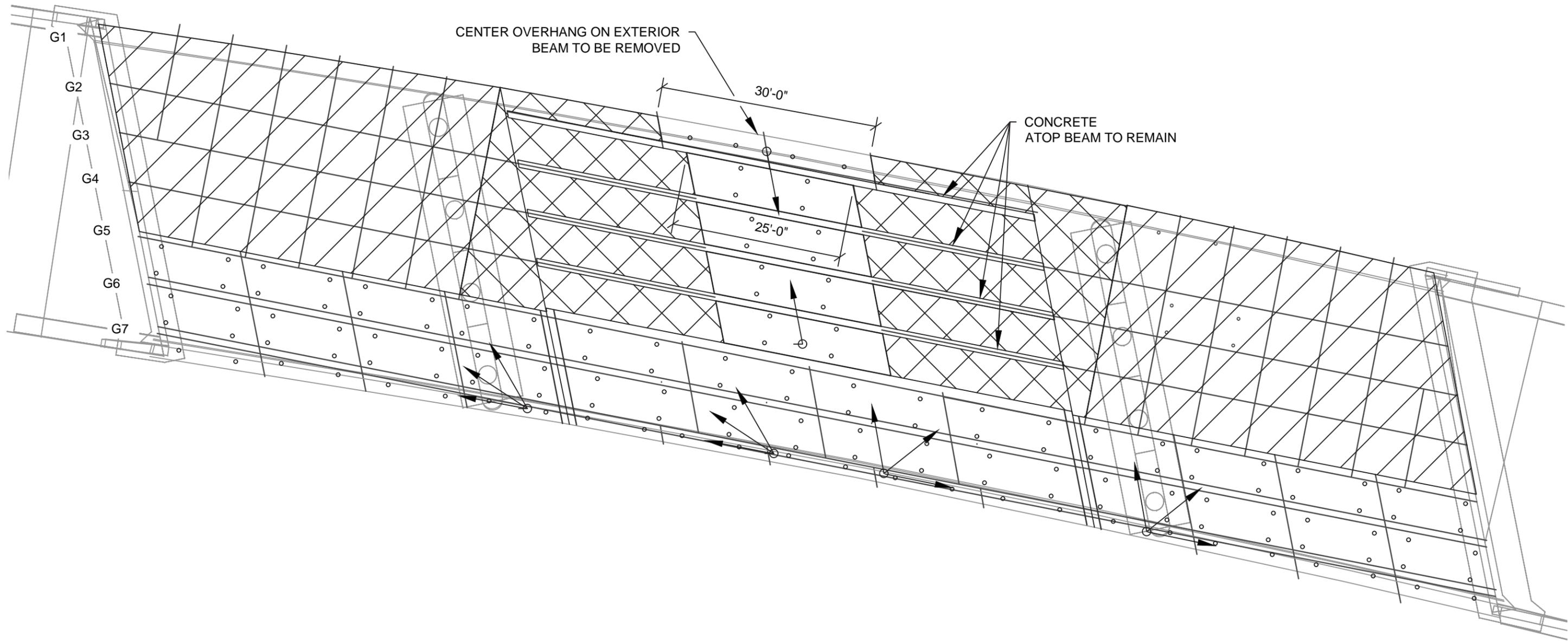


**SB SAWCUT LINES - SUSPENDED SPAN
TYPICAL SECTION**



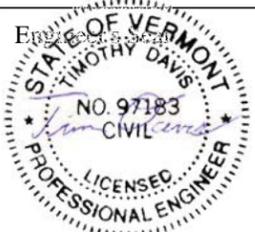
**SB SAWCUT LINES - END SPAN TYPICAL
SECTION**

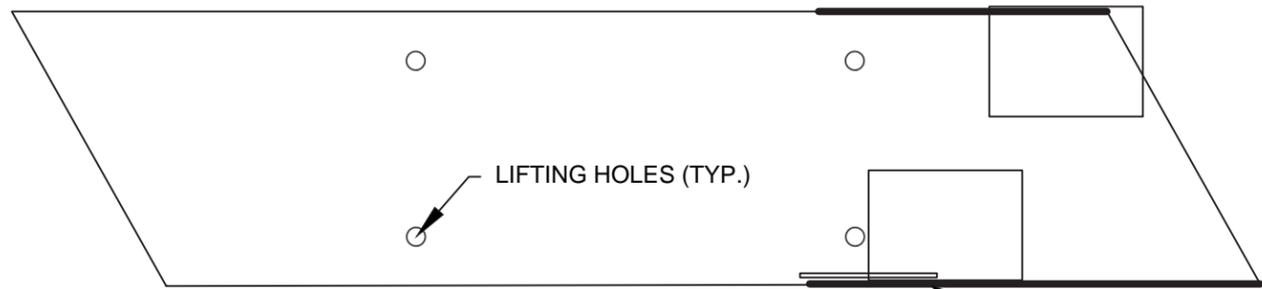
Revision No. & Date	Vermont Agency of Transportation				Drawing Status	Name	Date	PCL Civil Constructors, Inc.		
	Road No.	County / City	Financial Project ID No.		Sep 10 2015 8:58 PM FOR CONSTRUCTION	Drawn By	AJT	09/03/15	3810 Northdale Blvd. Suite 200, Tampa Florida 33624 (813)-264-9500 ; Fax: (813)-264-6689	
	I-91	Windsor / Hartford	IM 091-2(79)			Design By	TMD/ AJT	09/03/15	Submittal DEMOLITION PLAN	PCL Project / Job No. I-91 Windsor / Hartford / 5514001
					Check By	TMD	09/08/15	Drawing Title SB SAWCUT SECTIONS	Sheet No. 03	



SB DECK REMOVAL SEQUENCE
 SEQUENCE SUBJECT TO FIELD MODIFICATION UNDER THE
 DIRECTION OF THE CONSTRUCTION ENGINEER

- CHIPPED WITH HOE RAM
- PANEL REMOVED WITH EXCAVATOR

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	Road No.	County / City	Financial Project ID No.		Sep 10 2015 8:59 PM FOR CONSTRUCTION	Drawn By	AJT	09/03/15	Submittal DEMOLITION PLAN		PCL Project / Job No. I-91 Windsor / Hartford / 5514001
	I-91	Windsor / Hartford	IM 091-2(79)			Design By	TMD/ AJT	09/03/15	Drawing Title SB DECK REMOVAL DETAIL		Sheet No. 04
					Check By	TMD	09/08/15				

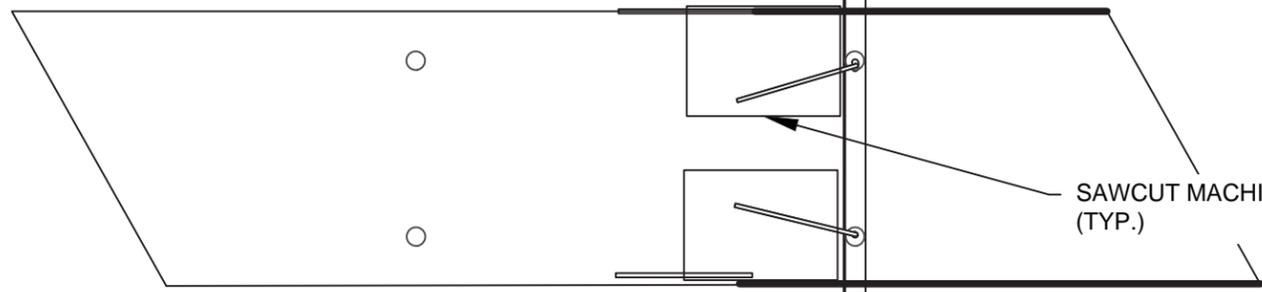


LIFTING HOLES (TYP.)

SUPPORT ANGLE (TYP.)

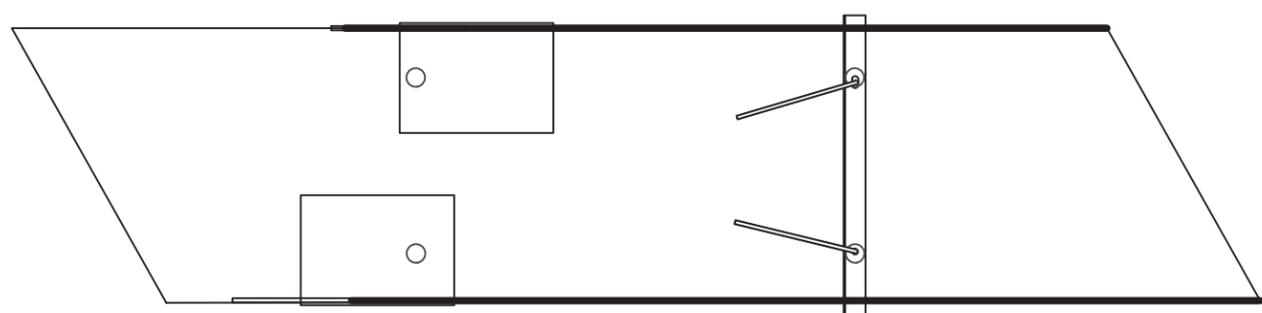
COMPLETED SAWCUT (TYP.)

1. LONGITUDINALLY SAWCUT PAST THE LIFTING HOLES

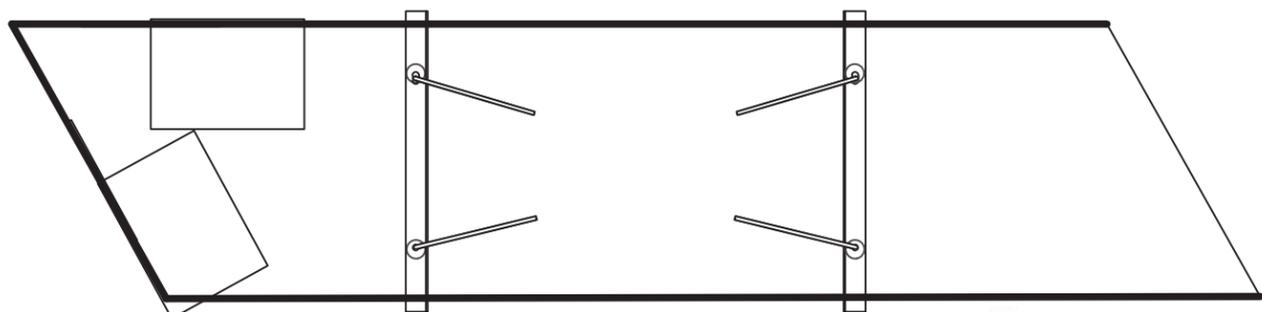


SAWCUT MACHINE (TYP.)

2. STOP SAWCUT, MOVE MACHINE CLEAR AND INSTALL SUPPORT ANGLE AND RIG FREE HALF OF SLAB TO CRANE.



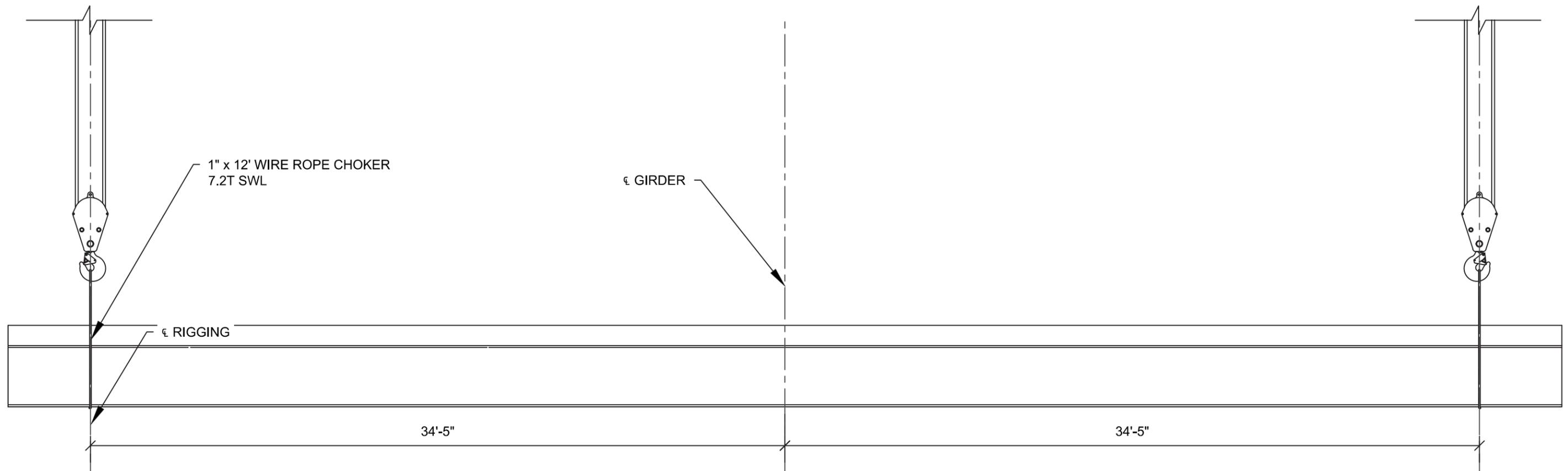
3. CONTINUE SAWCUT PAST NEXT SET OF LIFTING HOLES



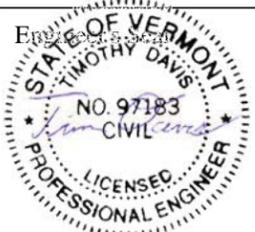
4. STOP SAWCUT, MOVE MACHINE CLEAR AND INSTALL SUPPORT ANGLE. RIG TO SECOND HALF OF SLAB. COMPLETE SAWCUT.

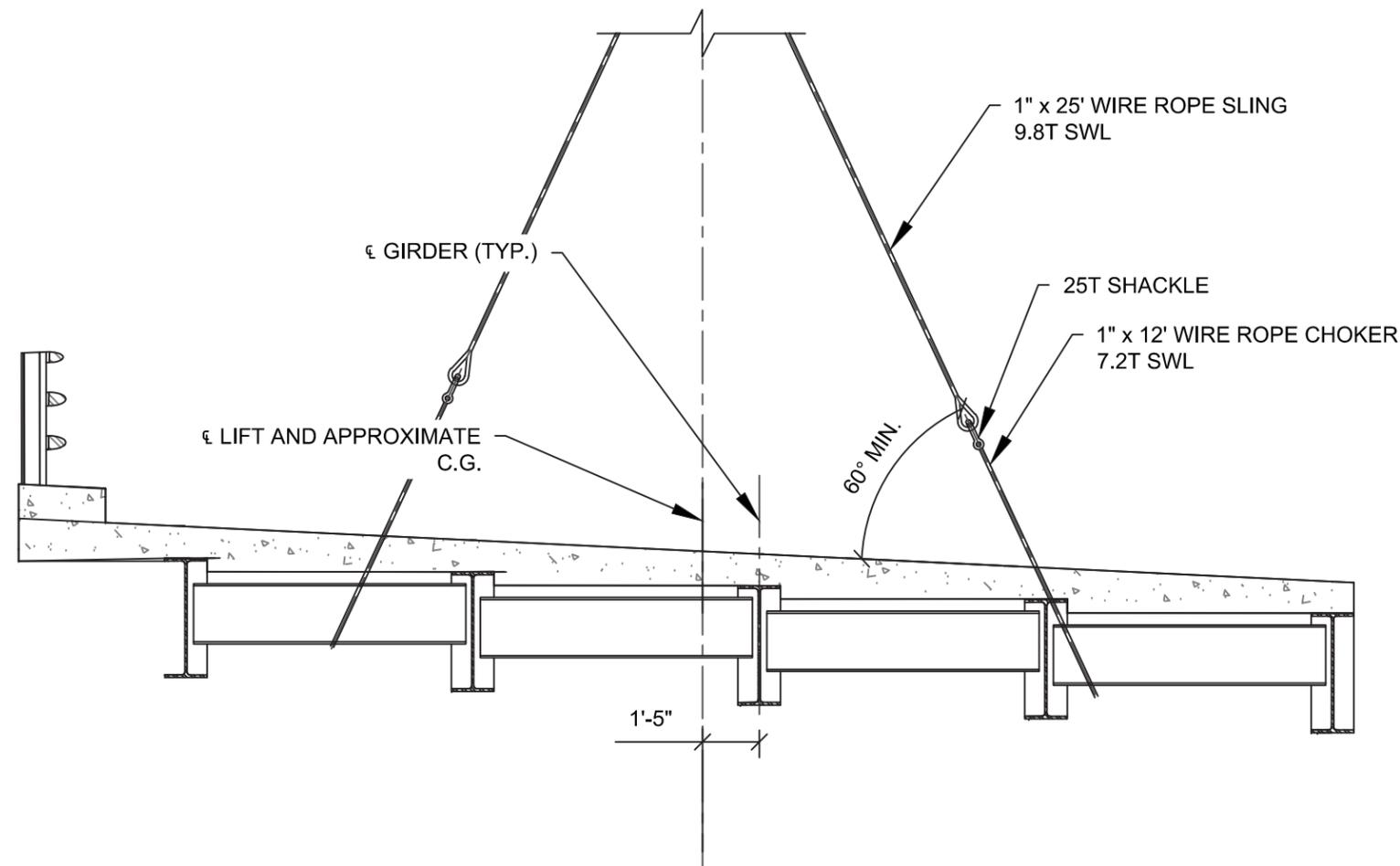
5. COMPLETE TRANSVERSE SAWCUT.

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	Road No.	County / City	Financial Project ID No.		Sep 10 2015 8:59 PM FOR CONSTRUCTION	Drawn By	AJT	09/03/15	Submittal DEMOLITION PLAN
	I-91	Windsor / Hartford	IM 091-2(79)		Design By	TMD/ AJT	09/03/15	Drawing Title DECK PANEL DETAILED SEQUENCE	Sheet No. 07
					Check By	TMD	09/08/15		



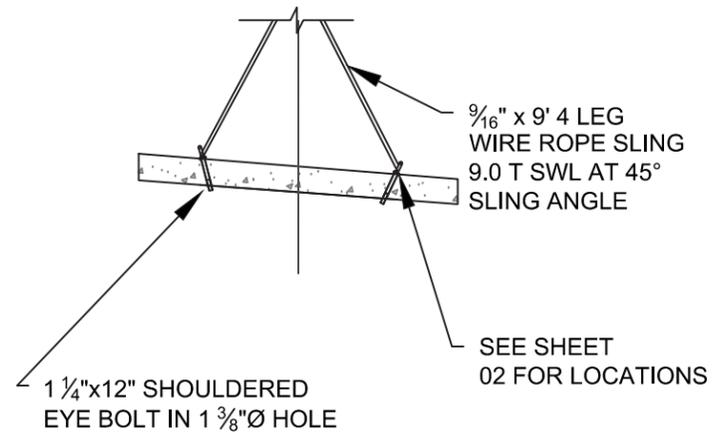
DEMOLITION RIGGING - TWO CRANE LIFT

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	I-91	Windsor / Hartford	IM 091-2(79)		Design By	TMD/ AJT	09/03/15	Drawing Title RIGGING DETAILS (2)	Sheet No. 09
					Check By	TMD	09/08/15		

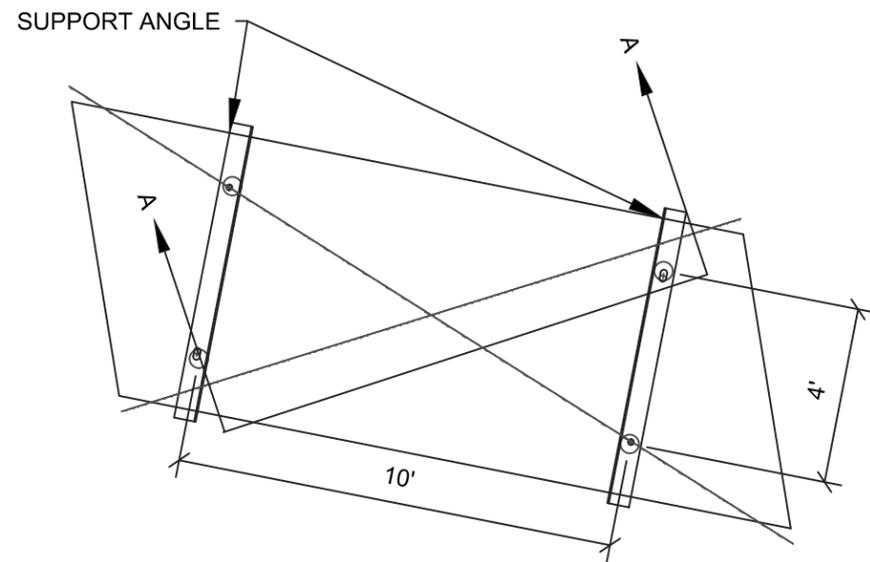


DEMOLITION RIGGING - EXPANSION JOINT
 G1-G5 JOINT PIECE SHOWN, G6-G7 PIECE SIMILAR

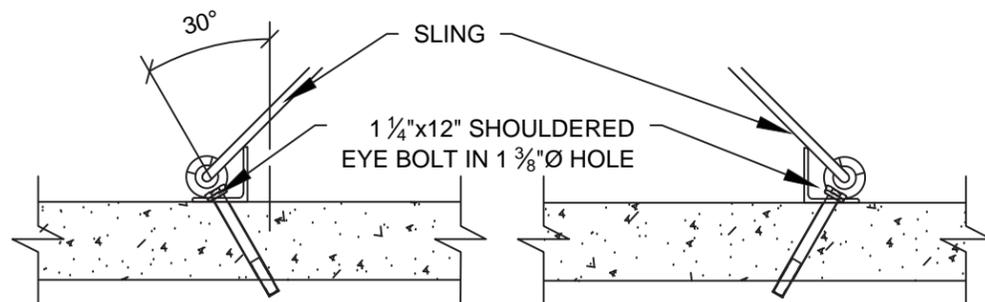
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	I-91	Windsor / Hartford	IM 091-2(79)			Design By	TMD/ AJT	09/03/15	SB DEMOLITION PLAN	I-91 Windsor / Hartford / 5514001
					Check By	TMD	09/08/15	Drawing Title	Sheet No.	
								RIGGING DETAILS (3)	10	



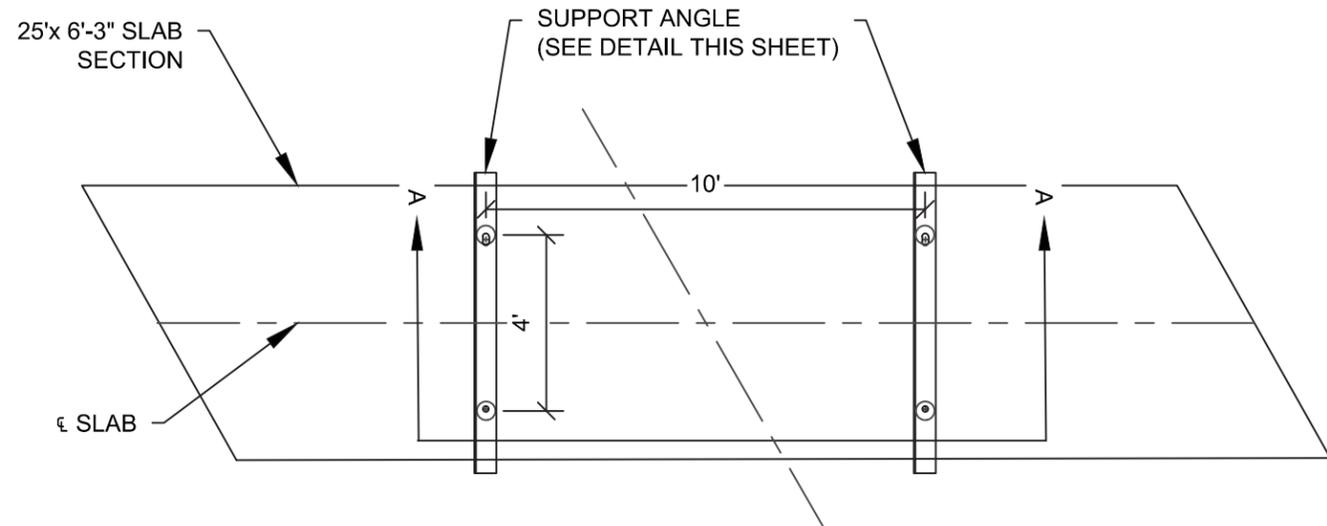
CONCRETE SLAB RIGGING - ELEVATION



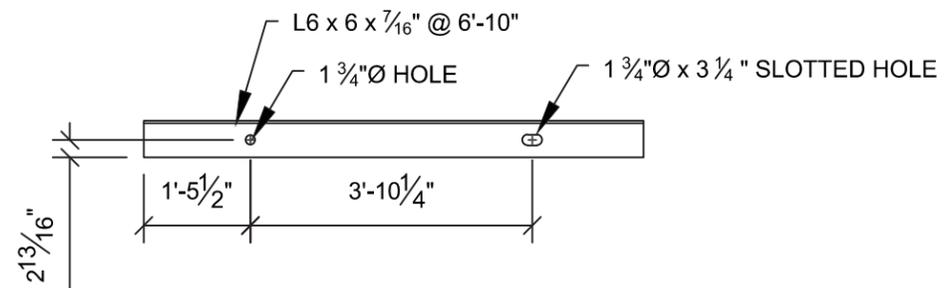
TYPICAL CONCRETE SLAB RIGGING - PLAN



SECTION A-A

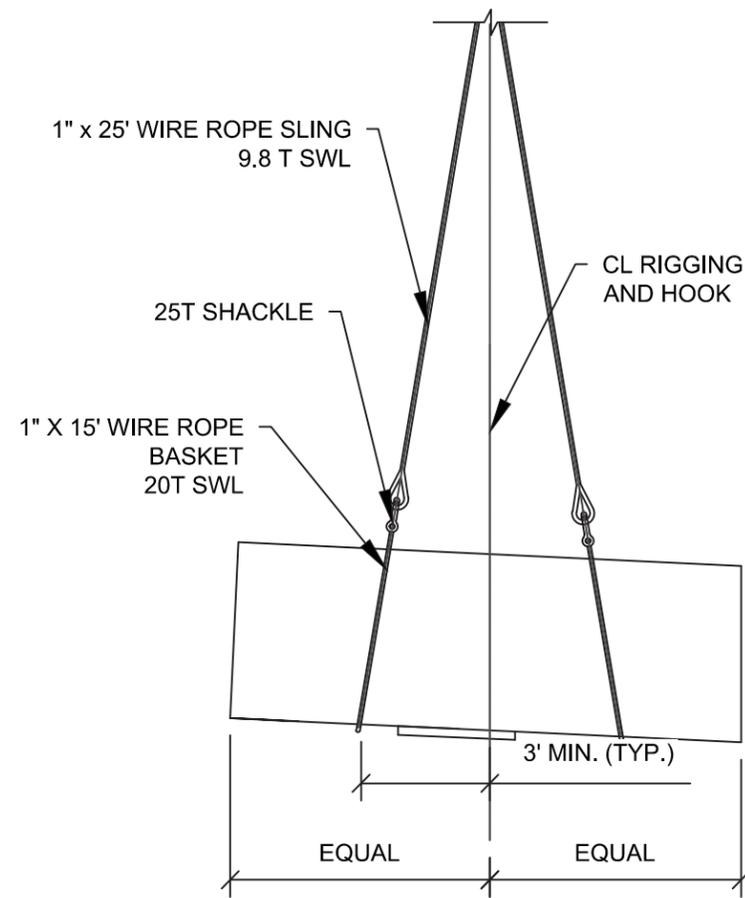


SUSPENDED SPAN CONCRETE SLAB RIGGING - PLAN

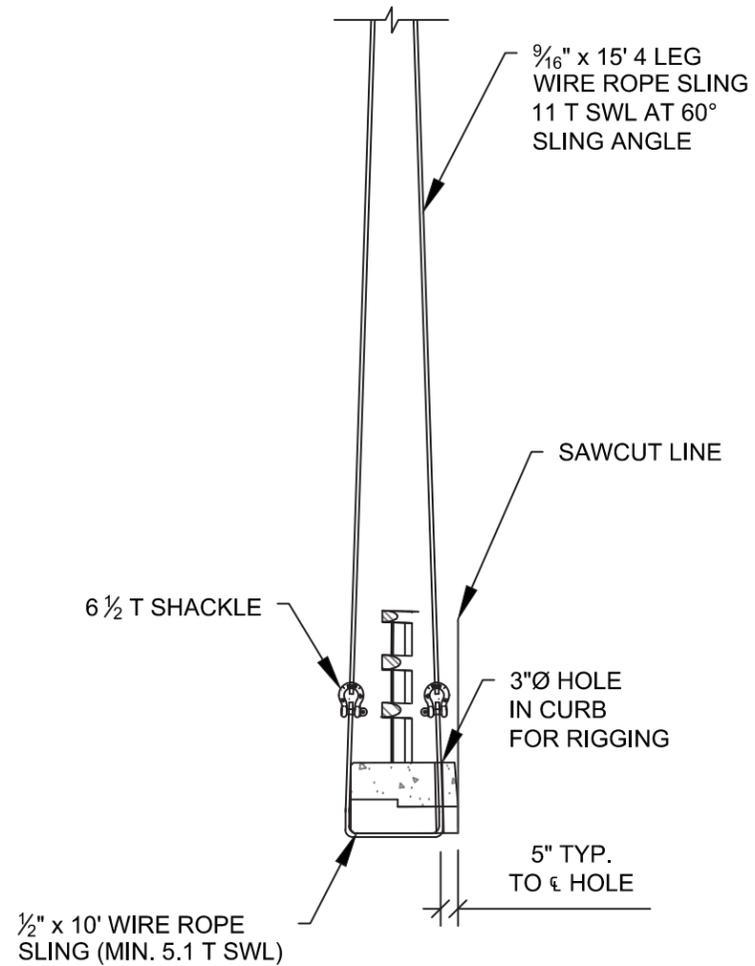


SUPPORT ANGLE DETAIL

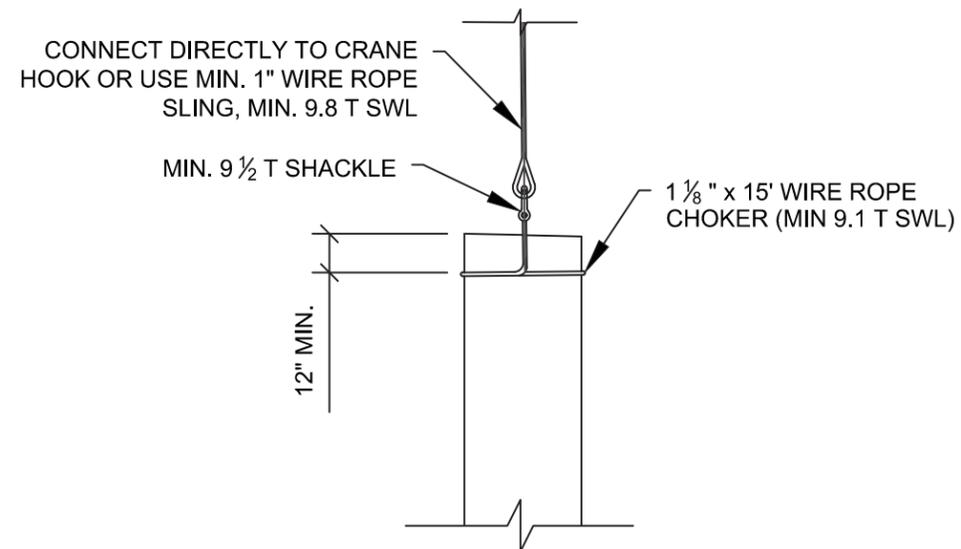
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	I-91	Windsor / Hartford	IM 091-2(79)		Design By	TMD/ AJT	09/03/15	Drawing Title RIGGING DETAILS (4)	Sheet No. 11
					Check By	TMD	09/08/15		



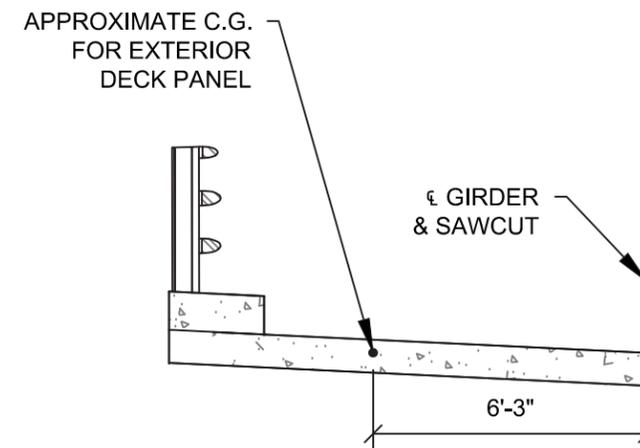
PIER CAP RIGGING



OVERHANG CURB RIGGING

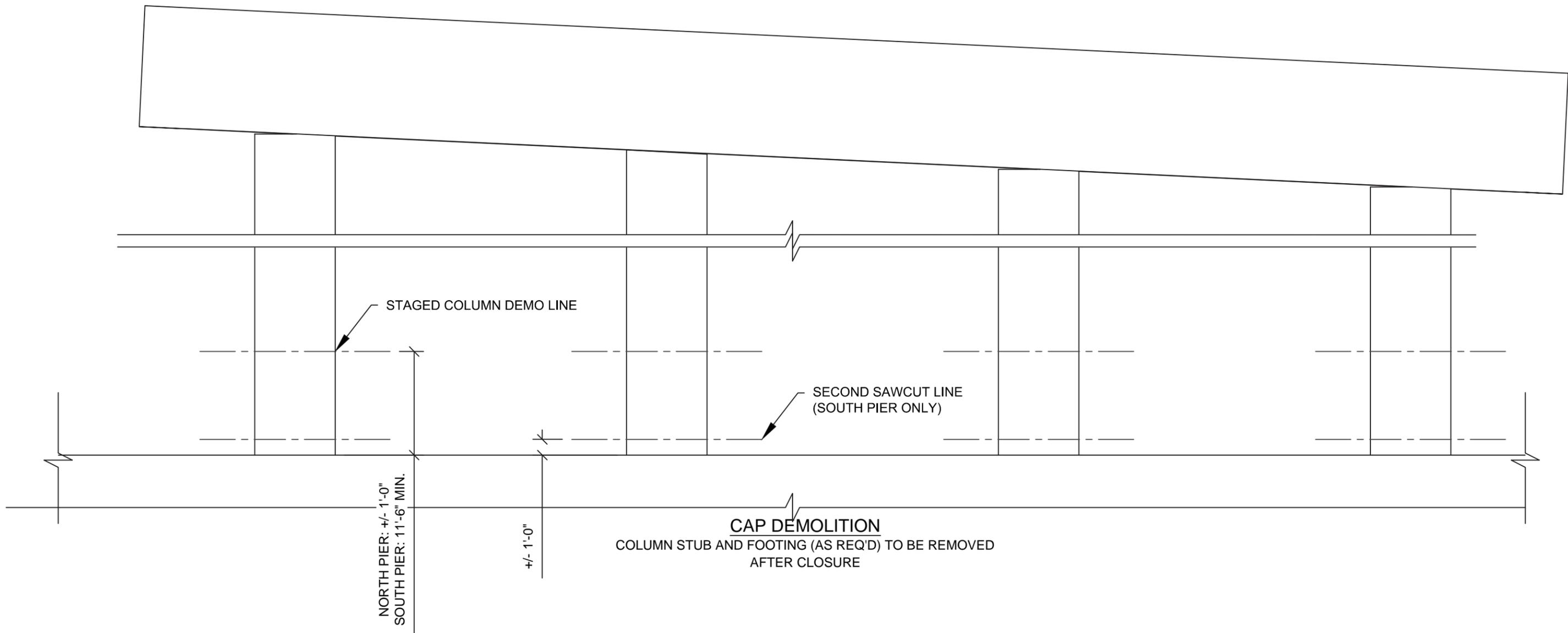


COLUMN RIGGING

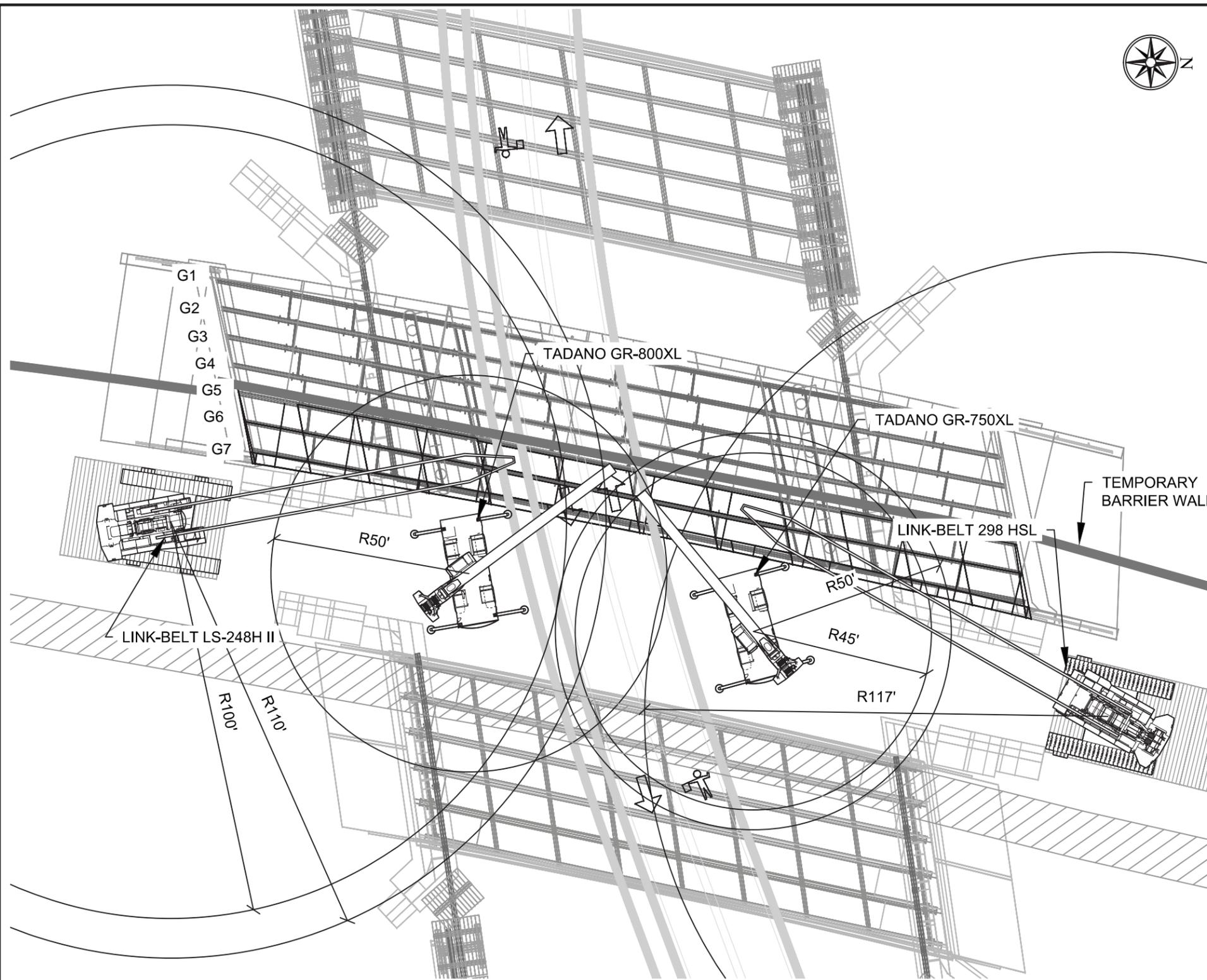


END SPAN EXTERIOR DECK C.G.

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	Road No.	County / City	Financial Project ID No.		Sep 10 2015 8:59 PM FOR CONSTRUCTION	Drawn By	AJT	09/03/15	3810 Northdale Blvd. Suite 200, Tampa Florida 33624 (813)-264-9500 ; Fax: (813)-264-6689
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					Check By	TMD	09/08/15	Drawing Title RIGGING DETAILS (5)	Sheet No. 12



Revision No. & Date	Vermont Agency of Transportation				Drawing Status	Name	Date	PCL Civil Constructors, Inc. 3810 Northdale Blvd. Suite 200, Tampa Florida 33624 (813)-264-9500 ; Fax: (813)-264-6689	
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	I-91	Windsor / Hartford	IM 091-2(79)		Design By	TMD/ AJT	09/03/15	Drawing Title COLUMN AND CAP DEMO	Sheet No. 13
					Check By	TMD	09/08/15		



CRANE INFO:		TADANO GR-800XL	TADANO GR-750XL	LINK BELT LS-248H II	LINK BELT 298 HSL
BOOM LENGTH:	ft	91, TELE MODE 1	88.6, TELE MODE I	120	120
PIECE TYPE		DECK OVERHANG	DECK OVERHANG	DECK OVERHANG	DECK OVERHANG
MAX. PIECE WEIGHT	lbs	14,000	14,000	14,000	14,000
PICK WEIGHT + RIGGING:	lbs	16,330	16,330	22,913	22,913
MAX. CRANE RADIUS:	ft	50	45	100	117
CRANE CAPACITY:	ft	19,300	22,200	31,400	38,000
% OF CHART:		85%	74%	73%	60%

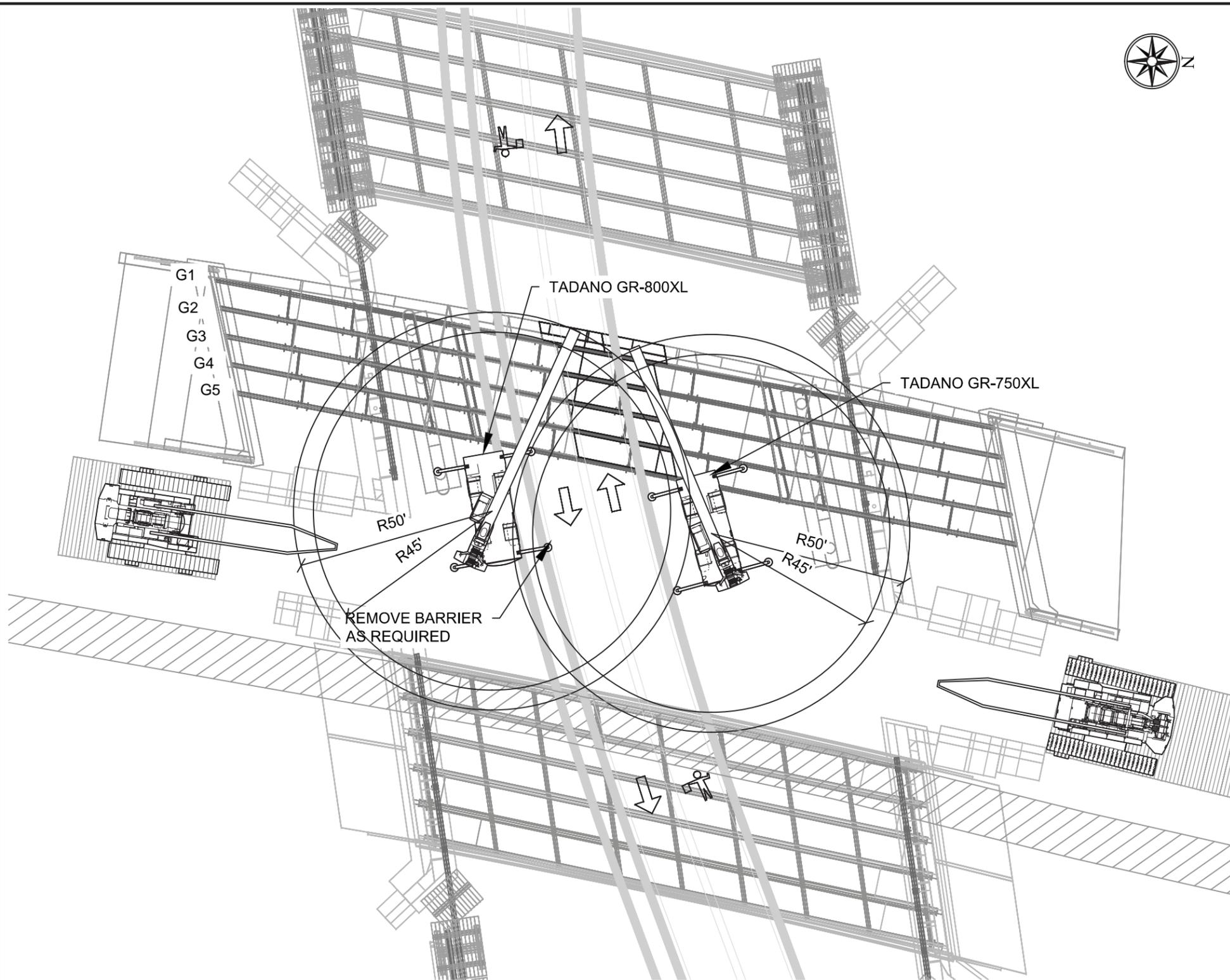
CRANE INFO:		TADANO GR-800XL	TADANO GR-750XL	LINK BELT LS-248H II	LINK BELT 298 HSL
BOOM LENGTH:	ft	91, TELE MODE 1	88.6, TELE MODE I	120	120
PIECE TYPE		DECK SECTION	DECK SECTION	DECK SECTION	DECK SECTION
MAX. PIECE WEIGHT	lbs	11,000	11,000	11,000	11,000
PICK WEIGHT + RIGGING:	lbs	13,330	13,330	19,913	19,913
MAX. CRANE RADIUS:	ft	50	50	110	117
CRANE CAPACITY:	ft	19,300	18,100	27,500	38,000
% OF CHART:		69%	74%	72%	52%

SB DEMOLITION - STAGE 1
PRE-CLOSURE WORK

- SB DEMOLITION - STAGE 1**
- LAYOUT CORE HOLES AS SHOWN ON SHEETS 02 AND 11 UNDER LANE CLOSURES.
 - CORE DRILL HOLES IN BRIDGE DECK UNDER LANE CLOSURES. FLAG TRAFFIC FOR HOLES IN SUSPENDED SPAN.
 - REMOVE ASPHALT FROM BRIDGE SURFACE UNDER LANE CLOSURES.
 - SET UP NB LEFT LANE CLOSURE FOR STAGING OF DEBRIS REMOVAL TRUCKS.
 - INSTALL TEMPORARY BARRIER WALL AND SECURE TO BRIDGE DECK PER THE TRAFFIC CONTROL PLAN.
 - REMOVE INTERIOR BRIDGE RAILING.
 - LAYOUT SAWCUTS AS SHOWN ON SHEETS 02 AND 03.
 - COMPLETE PLUNGE CUTS IN OVERHANG. FLAG TRAFFIC FOR CUTS IN SUSPENDED SPAN.
 - REMOVE OVERHANG DECK SECTIONS. FLAG TRAFFIC FOR CUTS IN SUSPENDED SPAN.
 - RIG TO SECTION PER RIGGING DETAILS ON SHEET 12.
 - REMOVE SLACK FROM RIGGING.
 - PERFORM FINAL LONGITUDINAL CUT TO RELEASE PIECE.
 - REMOVE DECK SECTIONS, WORKING FROM CENTER OF SPANS OUT. SEE SHEET 07 FOR DETAILED SEQUENCE.
 - CHIP CONCRETE NEXT TO EXPANSION JOINTS WITH MINI EXCAVATOR.

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										Drawing Title SB DEMO - STAGE 1		Sheet No. 14	

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SB DEMOLITION - STAGE 3
CLOSURE WORK

CRANE INFO:		TADANO GR-800XL	TADANO GR-750XL
BOOM LENGTH:	ft	91, TELE MODE 1	88.6, TELE MODE I
PIECE TYPE		CENTER OVERHANG SECTION	CENTER OVERHANG SECTION
MAX. PIECE WEIGHT	lbs	12,000	12,000
PICK WEIGHT + RIGGING:	lbs	14,330	14,330
MAX. CRANE RADIUS:	ft	50	50
CRANE CAPACITY:	ft	19,300	18,100
% OF CHART:		74%	79%

CRANE INFO:		TADANO GR-800XL	TADANO GR-750XL
BOOM LENGTH:	ft	91, TELE MODE 1	88.6, TELE MODE I
PIECE TYPE		CENTER DECK SECTION	CENTER DECK SECTION
MAX. PIECE WEIGHT	lbs	15,000	15,000
PICK WEIGHT + RIGGING:	lbs	17,330	17,330
MAX. CRANE RADIUS:	ft	45	45
CRANE CAPACITY:	ft	23,600	22,200
% OF CHART:		73%	78%

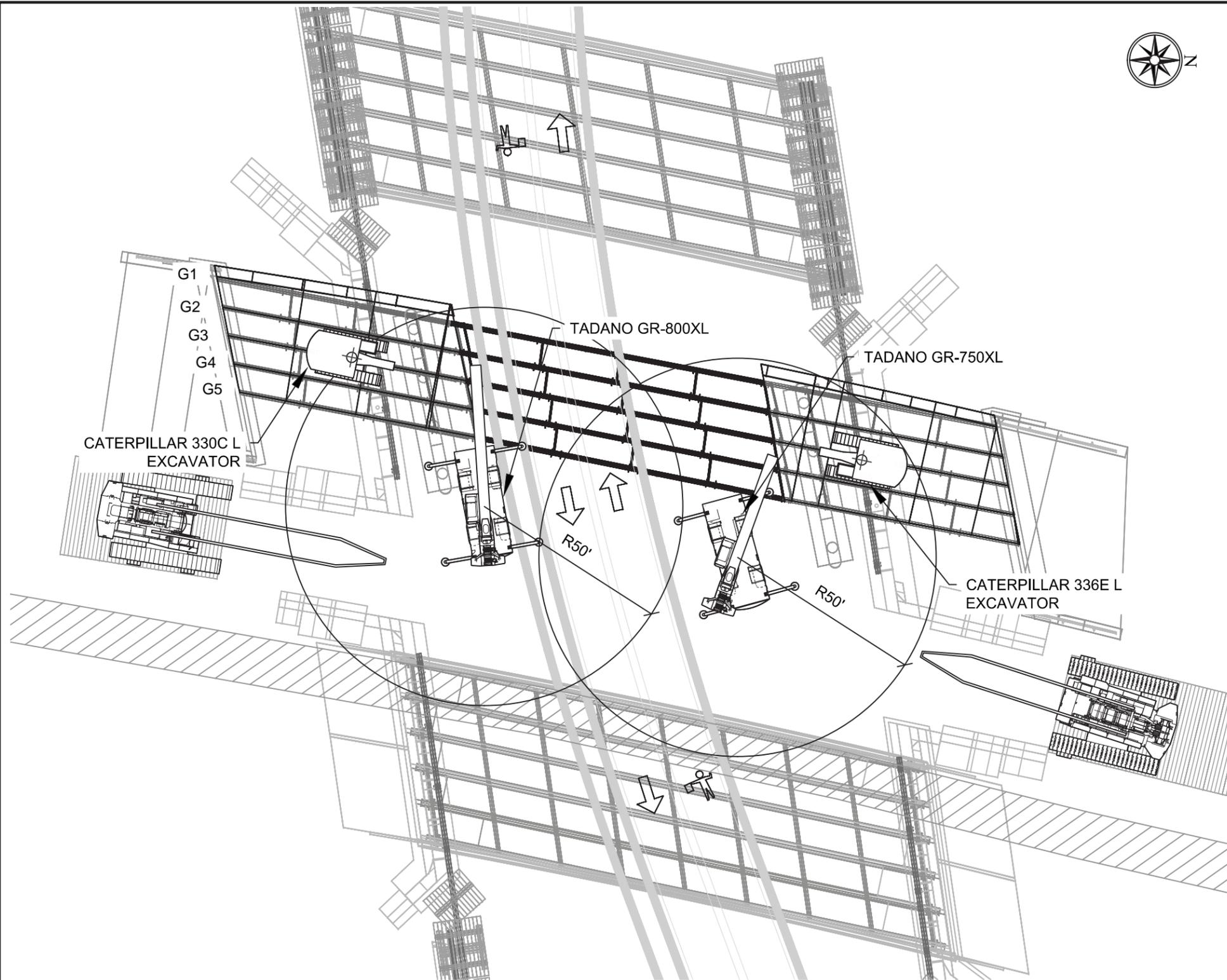
SB DEMOLITION - STAGE 3

1. FLAG US-5 TRAFFIC AS NECESSARY FOR SUSPENDED SPAN WORK.
2. REMOVE OVERHANG DECK SECTIONS.
 - 2.1. RELOCATE GR-750XL CRANE NORTH TO SECOND LOCATION SHOWN.
 - 2.2. COMPLETE CORE HOLES IN OVERHANG.
 - 2.3. INSTALL PANEL RIGGING AND REMOVE SLACK FROM RIGGING. SEE RIGGING DETAIL SHEET 12.
 - 2.4. COMPLETE LONGITUDINAL SAWCUT.
3. REMOVE MIDSPAN DECK SECTIONS.
 - 3.1. COMPLETE LONGITUDINAL SAWCUT AND INSTALL SUPPORT ANGLE. SEE ANGLE DETAIL SHEET 11.
 - 3.2. INSTALL PANEL RIGGING AND REMOVE SLACK FROM RIGGING. SEE RIGGING DETAIL SHEET 11.
 - 3.3. TRANSVERSELY SAWCUT PANELS.
 - 3.4. REMOVE PANEL.
 - 3.5. REPEAT FOR REMAINING PANELS

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					Sep 10 2015 8:59 PM		AJT		09/03/15		3810 Northdale Blvd. Suite 200, Tampa Florida 33624 (813)-264-9500 ; Fax: (813)-264-6689	
					FOR CONSTRUCTION		TMD/ AJT		09/03/15		Submittal DEMOLITION PLAN	
Road No.	County / City	Financial Project ID No.				TMD		09/08/15		PCL Project / Job No. I-91 Windsor / Hartford / 5514001		
I-91	Windsor / Hartford	IM 091-2(79)								Sheet No. 16		

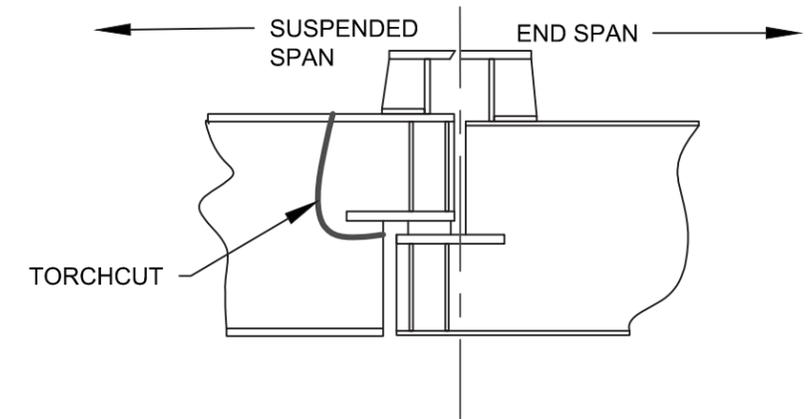


CRANE INFO:		TADANO GR-800XL	TADANO GR-750XL
BOOM LENGTH:	ft	91, TELE MODE 1	88.6, TELE MODE I
PIECE TYPE		SUSPENDED GIRDER W/ CONC.	SUSPENDED GIRDER W/ CONC.
MAX. PIECE WEIGHT	lbs	27,000	27,000
PICK WEIGHT + RIGGING:	lbs	15,830	15,830
MAX. CRANE RADIUS:	ft	50	50
CRANE CAPACITY:	ft	19,300	18,100
% OF CHART:		82%	87%



SB DEMOLITION - STAGE 5

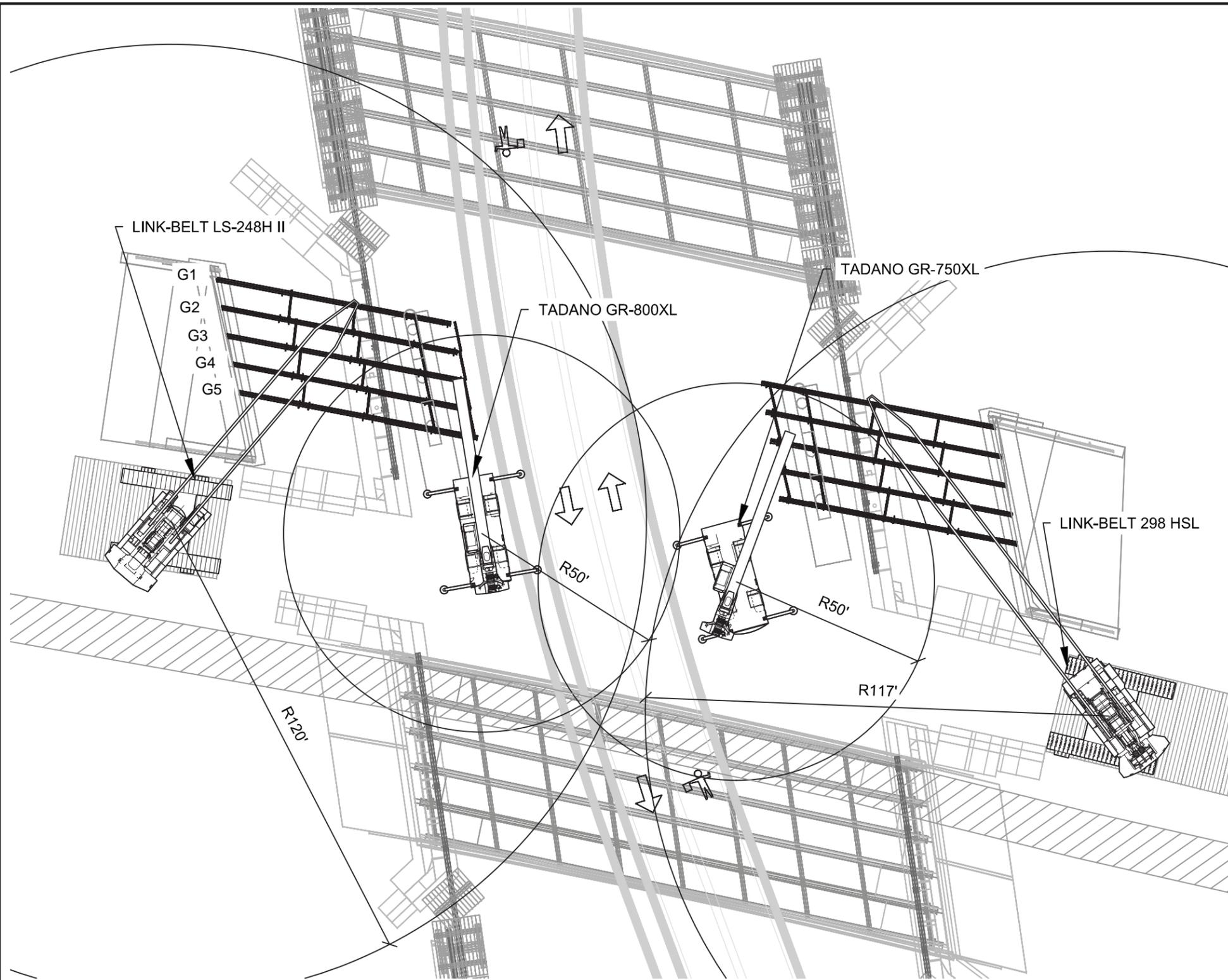
1. FLAG US-5 TRAFFIC AS NECESSARY FOR SUSPENDED SPAN WORK.
2. RIG TO SUSPENDED SPAN G5 AS SHOWN ON SHEET 09. REMOVE SLACK FROM MAIN LINES AND RIGGING.
3. STOP TRAFFIC.
4. TORCH CUT OR UNBOLT GIRDER FROM DIAPHRAGMS. TORCH CUT GIRDER NEAR EXPANSION JOINT AS SHOWN BELOW.
5. PICK G5 AND SET ONTO HAUL TRUCK.
6. RELEASE G5 FROM CRANES AND RELEASE TRAFFIC.
7. TORCH CUT OR UNBOLT DIAPHRAGMS.
8. REPEAT STEPS 2 THROUGH 7 FOR GIRDERS G1 THROUGH G4. NOTE - GIRDER G1 MUST BE REMOVED BEFORE G2.
9. WORKING FROM EXPANSION JOINT BACKWARDS, USE SLAB CRAB ON EXCAVATOR TO REMOVE END SPAN DECK PANELS. REMOVE CRANE MATS AS NECESSARY. SEE SHEET 04 FOR LIMITS OF REMOVAL. SLAB REMOVAL ON END SPAN MAY TAKE PLACE SIMULTANEOUSLY WITH SUSPENDED SPAN GIRDER REMOVAL.
10. TORCH OR SAW CUT REMAINING REBAR.



SB DEMOLITION - STAGE 5
CLOSURE WORK

EXPANSION JOINT TORCHCUT DETAIL

Revision No. & Date		Vermont Agency of Transportation			Drawing Status		Name		Date		PCL Civil Constructors, Inc.	
					Sep 10 2015 9:00 PM FOR CONSTRUCTION		AJT		09/03/15		3810 Northdale Blvd. Suite 200, Tampa Florida 33624 (813)-264-9500 ; Fax: (813)-264-6689	
Road No.	County / City	Financial Project ID No.					TMD/ AJT		09/03/15		Submittal DEMOLITION PLAN	
I-91	Windsor / Hartford	IM 091-2(79)				TMD		09/08/15		Drawing Title SB DEMO - STAGE 5		Sheet No. 18



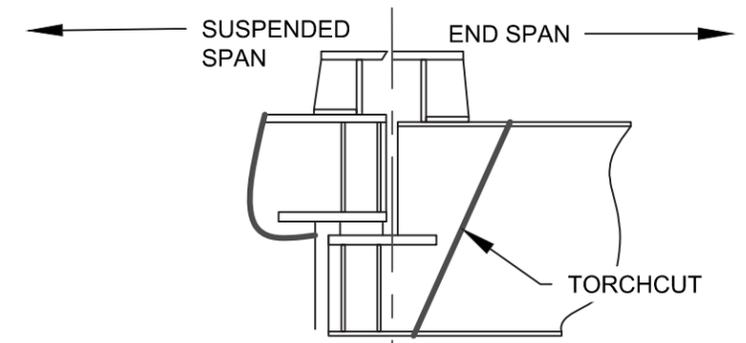
SB DEMOLITION - STAGE 6
CLOSURE WORK

CRANE INFO:		TADANO GR-800XL	TADANO GR-750XL
BOOM LENGTH:	ft	91, TELE MODE 1	88.6, TELE MODE I
PIECE TYPE		EXPANSION JOINT	EXPANSION JOINT
MAX. PIECE WEIGHT	lbs	11,000	11,000
PICK WEIGHT + RIGGING:	lbs	13,330	13,330
MAX. CRANE RADIUS:	ft	50	50
CRANE CAPACITY:	ft	19,300	18,100
% OF CHART:		69%	74%

CRANE INFO:		LINK BELT LS-248H II	LINK BELT 298 HSL
BOOM LENGTH:	ft	120	120
PIECE TYPE		END SPAN GIRDER W/O CONC.	END SPAN GIRDER W/O CONC.
MAX. PIECE WEIGHT	lbs	11,700	11,700
PICK WEIGHT + RIGGING:	lbs	20,613	20,613
MAX. CRANE RADIUS:	ft	120	117
CRANE CAPACITY:	ft	24,300	28,900
% OF CHART:		85%	71%

SB DEMOLITION - STAGE 6

- NOTE: EXPANSION JOINT REMOVAL MAY START AFTER DECK AND REBAR REMOVAL IN SUSPENDED SPAN IS COMPLETE. RIG TO EXPANSION JOINT AS SHOWN ON SHEET 10. REMOVE SLACK FROM RIGGING.
- TORCH CUT GIRDERS AT LOCATION SHOWN BELOW.
- REMOVE EXPANSION JOINT SECTION AND RELEASE FROM CRANE.
- RIG TO END SPAN GIRDER G5 AS SHOWN ON SHEET 08. REMOVE SLACK FROM MAIN LINES AND RIGGING.
- TORCH CUT OR UNBOLT GIRDER DIAPHRAGMS AND TORCH CUT ANCHOR BOLTS.
- LIFT GIRDER AND SET ONTO HAUL TRUCK.
- RELEASE GIRDER FROM CRANE.
- TORCH CUT OR UNBOLT DIAPHRAGMS.
- REPEAT STEPS 4 THROUGH 8 FOR G1 THROUGH G4. NOTE - G1 MUST BE REMOVED BEFORE G2.



EXPANSION JOINT TORCHCUT DETAIL

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I-91	Windsor / Hartford	IM 091-2(79)				TMD		09/08/15		Drawing Title SB DEMO - STAGE 6		
										PCL Project / Job No. I-91 Windsor / Hartford / 5514001		
										Sheet No. 19		

