

DECK REMOVAL NOTES:

DEMOLISH DECK STARTING AT PIER 2, 3, OR 4, WITH ONE DEMOLITION OPERATION PROCEEDING TOWARD EACH ABUTMENT. START LOCATION IS TO BE DETERMINED BASED ON TRUCKING ROUTES, AND EXPECTED PRODUCTION.

FALL PROTECTION IS PROVIDED BY SUBDECKING AT INTERIOR BAYS. SUBDECKING IS NOT CONTINUOUS, SO PROVIDE CONCRETE DEADMEN AND CABLE HORIZONTAL LIFELINES FOR WORKERS WHERE FALL HAZARD EXISTS. PROVIDE A CONTROL LINE AT ABUTMENTS, AND TEMPORARY HANDRAILS AS REQUIRED AT WINGWALLS.

INSTALL PLASTIC SHEETING INSIDE SUBDECKING OVER ROAD, SIDEWALK, AND STREAM, TO CONTAIN SAWCUT SLURRY.

BEFORE SAWCUTTING DECK, DEMOLISH A SMALL SECTION TO DETERMINE CONNECTOR LOCATIONS. LAY OUT SAWCUTS SO AT LEAST 2" OF SLAB WIDTH BEARS ON THE GIRDER FLANGE (TYP LAYOUT SHOULD BE ABOUT 3" IF COILS WERE USED AS SHEAR DEVICES).

DEMOLITION EQUIPMENT ON DECK DURING DECK REMOVAL (2 SETUPS NEEDED):
 SAWCUT SUBCONTRACTOR TO PROVIDE SAWS AND RELATED EQUIPMENT
 CAT 324 OR 329 EXCAVATOR, WITH SCRAPER FOR PAVEMENT, HOE RAM, AND SLAB CRAB
 10-WHEEL DUMPTRUCK
 CAT 420 BACKHOE-LOADER WITH HOE-RAM (OPTIONAL)

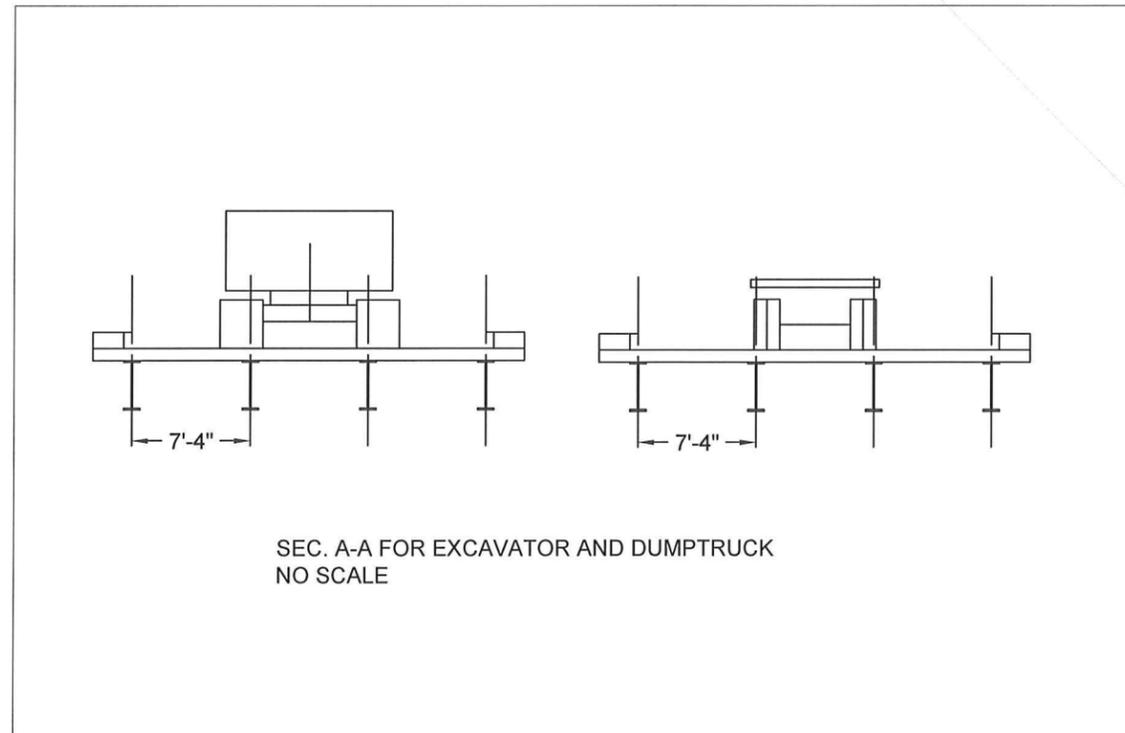
GENERAL SEQUENCE FOR DECK REMOVAL, PER SPAN:

- 1) REMOVE PAVEMENT AND MEMBRANE
- 2) TRANSVERSE SAWCUTS
- 3) CHIP CONCRETE ON OVERHANGS AS NEEDED TO COMPLETE COPING CUTS
- 4) INTERIOR LONGITUDINAL CUTS
- 5) LONGITUDINAL CUTS ALONG EXTERIOR GIRDERS, REMOVING OVERHANG SECTIONS AS THEY ARE CUT FREE (SEE DETAIL).
- 6) CHIP OUT DECK NEAR DIAPHRAGMS TO ALLOW ACCES FOR EXCAVATOR AND TO INSTALL X-BRACES. X-BRACES MAY ALSO BE INSTALLED BEFORE DECK REMOVAL.
- 7) INSTALL TEMPORARY X-BRACING AT START OF WORKING SPAN (SEE DETAIL)
- 8) DEMOLISH CONCRETE DIAPHRAGM AT START OF SPAN, AND END OF PREVIOUS SPAN, BY SAWCUTTING AND CHIPPING
- 9) REMOVE INTERIOR SAWCUT PANELS
- 10) USE EXCAVATOR OR 420 WITH HOE-RAM TO REMOVE MUCH OF THE CONCRETE REMAINING ON TOP FLANGES OF GIRDERS.
- 11) CHIP CONCRETE REMAINING ON FLANGES ONTO SUBDECKING.

KEEP EXCAVATOR TRACKS IN FULL CONTACT WITH THE DECK.

EXCAVATOR AND DUMPTRUCK ARE TO BE LOCATED STRADDLING MIDDLE TWO GIRDERS WHEN POSSIBLE. SEE SECTION LIMIT TRAVEL SPEEDS ON CUT DECK TO 5 MPH.

DUMPTRUCK GVWR IS 64,000 LB.

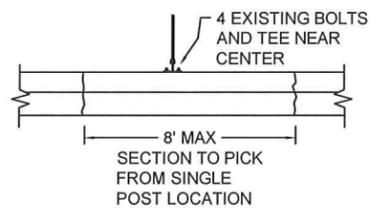
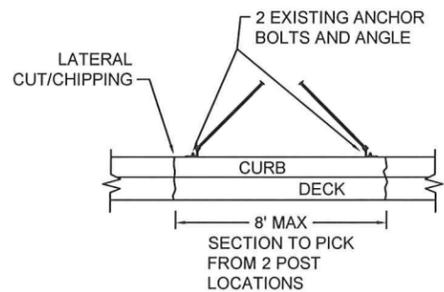


3-30-2016

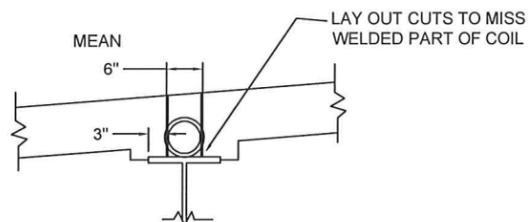
SHEET 1 OF 3

REV:	TITLE: 46A DEMOLITION PLAN - DECK
	PROJECT: WATERBURY IM 089-2 (43)
	SCALE: 1" = 16'
	DATE: MAR. 30, 2016
	BECK & BELLUCCI, INC. FRANKLIN, NEW HAMPSHIRE

REMOVE MAX. 8' LONG OVERHANG SECTIONS (5,200 LB)
 REMOVE RAIL AND POST BEFORE PICKING, OR ATTACH STRAPS ONTO POSTS.
 MAKE LONGITUDINAL OVERHANG CUTS LAST, TO LET EXCAVATOR PICK SECTIONS AS THEY ARE CUT LOOSE.
 IF POSTS ARE REMOVED, BOLT DOWN LIFTING HARDWARE TO MIN. 4 BOLTS (2x2 POSTS OR 4x1 POST)

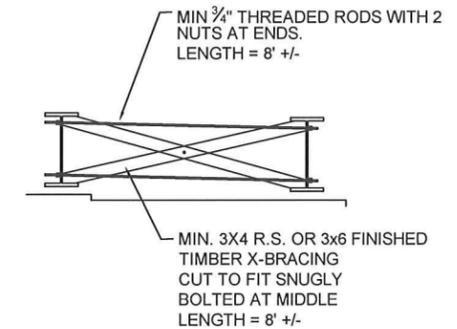


OVERHANG SECTION REMOVAL



INVESTIGATE SHEAR CONNECTOR LOCATIONS BEFORE SAWCUTTING. LAYOUT CUTS FOR MIN 2" WIDTH OF DECK PANEL BEARING

LONGITUDINAL SAWCUT LAYOUT (NTS)

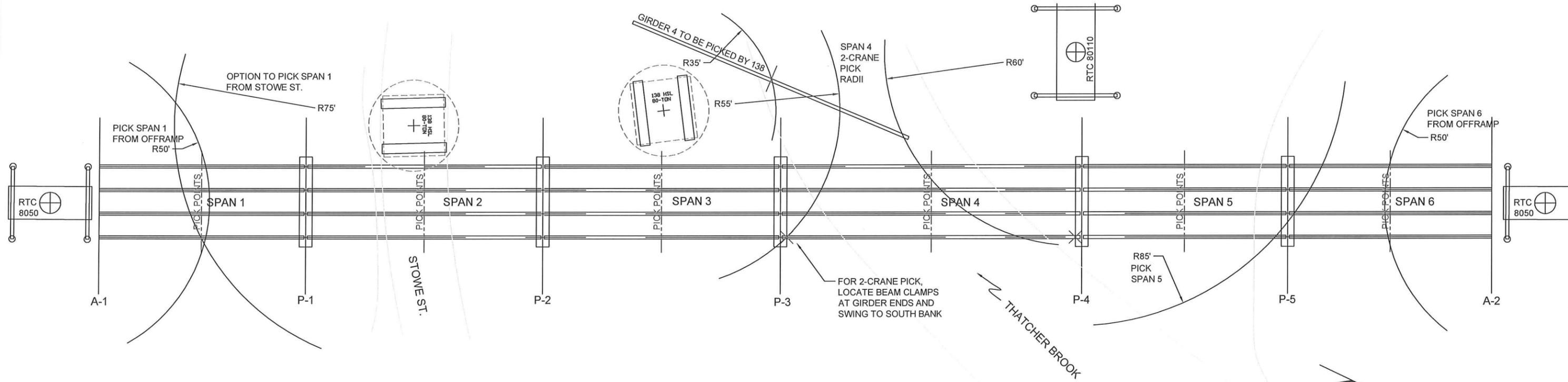


MAY DRILL HOLES AND INSTALL CROSSBRACING AND THREADED RODS BEFORE REMOVING DECK.

LATERAL BRACING DETAIL SEC. B-B, IN MIDDLE BAY



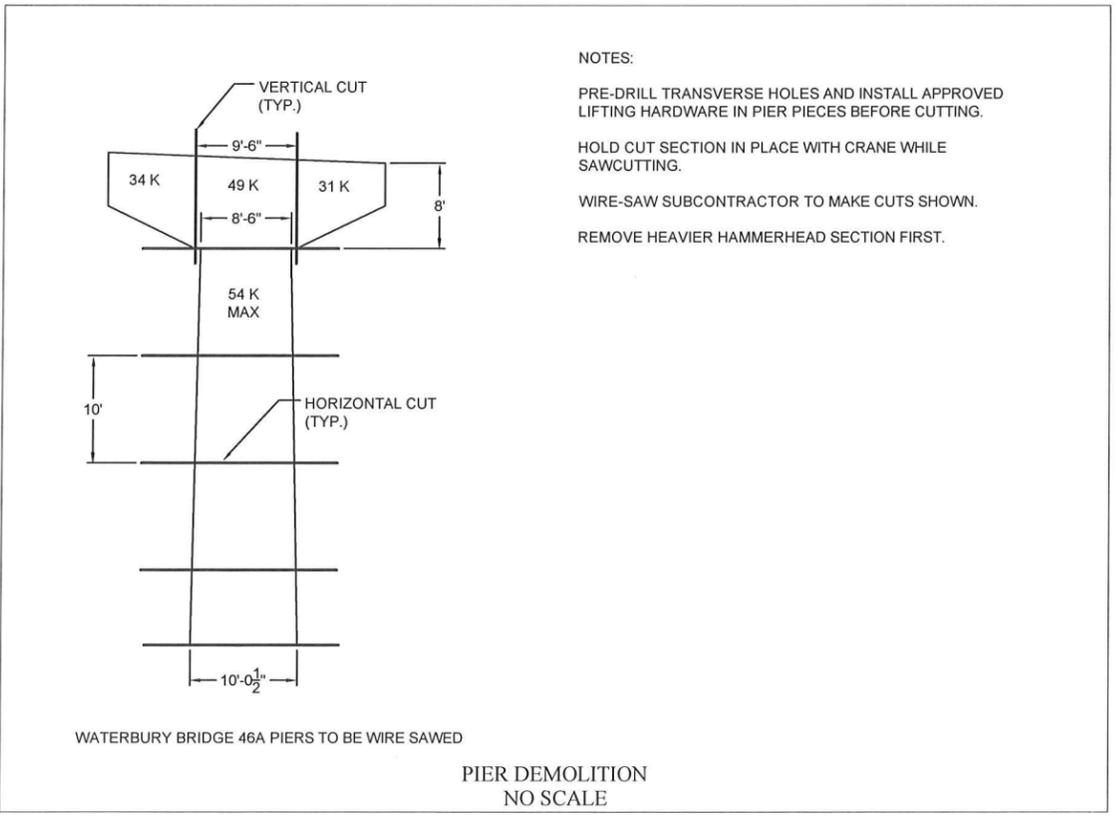
REV:	TITLE: 46A DEMOLITION - DECK DETAILS	
	PROJECT: WATERBURY IM 089-2 (43)	
	SCALE: 1" = 16'	DATE: MAR. 30, 2016
	BECK & BELLUCCI, INC. FRANKLIN, NEW HAMPSHIRE	



CRANE CHART FOR GIRDER DEMOLITION

SPAN	LENGTH (FT)	GIRDER WEIGHT (LBS.)	ADD FOR RIGGING (LBS.)	ADD FOR DIAPHRAGMS (LBS.)	WEIGHT TO PICK (LBS.)	138HSL MAX. RAD. (FT)	RTC80110 MAX. RAD. (FT)	RTC8050 MAX. RAD. (FT)
1,5,6	64	12,000	800	1,280	14,080	75	85	50
2,3	74	17,000	500	1,920	19,420	60	N/A	
4	94	34,000	500	2,560	37,060	35	50	
				2-CRANE PICK:	24,700	55	60	

STEEL DEMOLITION NOTES:
 PICK GIRDERS WITH (1) 15-TON BEAM CLAMP FOR 62' AND 72' SPANS,
 AND (1) 25-TON BEAM CLAMP FOR 92' SPANS.



NOTES:
 PRE-DRILL TRANSVERSE HOLES AND INSTALL APPROVED LIFTING HARDWARE IN PIER PIECES BEFORE CUTTING.
 HOLD CUT SECTION IN PLACE WITH CRANE WHILE SAWCUTTING.
 WIRE-SAW SUBCONTRACTOR TO MAKE CUTS SHOWN.
 REMOVE HEAVIER HAMMERHEAD SECTION FIRST.



SHEET 3 OF 3	
REV:	TITLE: 46A DEMOLITION - STEEL AND PIER
	PROJECT: WATERBURY IM 089-2 (43)
	SCALE: 1" = 30'
	DATE: MAR. 30, 2016
	BECK & BELLUCCI, INC. FRANKLIN, NEW HAMPSHIRE