

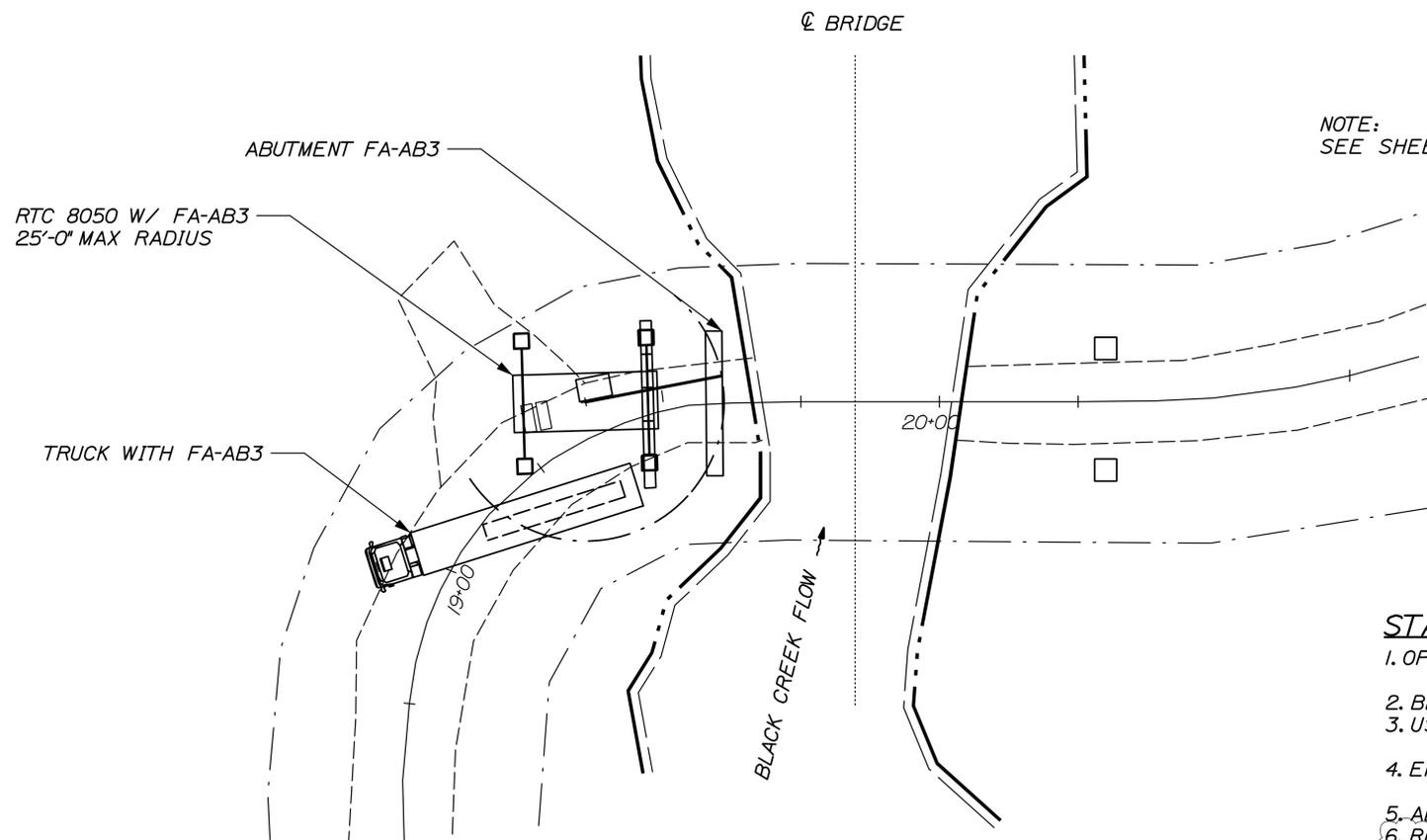
NOTES:
CRANE MATS NOT SHOWN FOR CLARITY

BEARING PLATES AND PILES POSITIONED AS REQ'D IN FIELD TO ALLOW A 50'-0" DISTANCE FROM CL OF PROPOSED BRIDGE TO CL HLI50 CRANE ROTATION

THE REAR CRANE OUTRIGGERS MUST BE PLACED DIRECTLY OVER THE PILES ±"

STAGE 1 - INSTALL TEMPORARY BEARING PLATFORMS

1. ONCE SITE PREPARATION IS COMPLETE AND PILES ARE DRIVEN, BEGIN INSTALLATION OF BEARING WASTE BLOCKS ON ABUTMENT #1 SIDE. PLACE CRANE MATS THE ENTIRE LENGTH OF THE WASTE BLOCK BEARING PLATFORM.
2. ENSURE ELEVATION AND POSITION OF WASTE BLOCKS ARE APPROPRIATE FOR PLACEMENT OF ABUTMENT FA-AB3. MAXIMUM RADIUS OF RTC 8050 WITH ABUTMENT FA-AB3 PIECES IS 25 FEET.
3. BACKFILL EXCAVATION TO ENABLE RTC 8050 TO DRIVE ONTO BEARING WASTE BLOCKS.
4. DRIVE HP 14x73 PILES ON ABUTMENT FA-AB4 SIDE AND INSTALL 4'x4'x1" BEARING STEEL PLATES.
5. ENSURE LOCATIONS OF STEEL BEARING PLATES APPROPRIATE FOR PLACEMENT OF ABUTMENT FA-AB4 AND PRECAST CONCRETE SLABS. CL ROTATION OF HLI50 TO BE 50'-0" FROM CL PROPOSED BRIDGE.
6. BACKFILL TO THE STEEL BEARING PLATES TO ALLOW HLI50 TO PLACE REAR OUTRIGGERS.
7. THE CONTRACTOR'S ENGINEER SHALL VERIFY THE STABILITY OF TEMPORARY BEARING PLATFORMS.

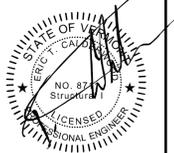


NOTE:
SEE SHEET 4 FOR DEADMAN PUSH-PULL DETAILS

STAGE 2 - INSTALLATION

1. OPERATE RTC 8050 ONTO BEARING WASTE BLOCKS AND DRIVE TRUCK WITH ABUTMENT FA-AB3 INTO PLACE AS SHOWN.
2. BEGIN INSTALLATION OF FA-AB3, 19.1T. MAX RADIUS = 25 FEET
3. USE PUSH-PULL BRACES TO STABILIZE ABUTMENT AND TO ENSURE ABUTMENT IS PLUMB. VERIFY EXACT LAYOUT OF CL BEARING.
4. ENSURE ELEVATIONS AND POSITIONS ARE CORRECT ON PIECE, INSTALL RAPID SETTING CONCRETE IN ABUTMENT PILE CAVITIES (ITEM 900.607, SPECIAL PROVISIONS)
5. ALLOW CONCRETE TO REACH THE CONTRACT REQUIRED STRENGTH OF 3500 PSI.
6. REMOVE TIMBER BLOCKING AND WASTE BLOCKS AT BOTTOM OF ABUTMENT AND PLACE STONE FILL PER CONTRACT DETAILS.
7. LEAVE PUSH-PULL BRACES IN PLACE UNTIL PRESTRESSED SLABS CONNECTED.

CALDERWOOD ENGINEERING, ETC.
STRUCTURAL ENGINEERING • DESIGNING SERVICES
222 RIVER RD. RICHMOND, ME 04357 PH: (207) 737-2008 FAX: (207) 737-2008
PREPARED FOR:
A.L. ST. ONGE CONTRACTOR, INC
VTAOT PROJ. NUMBER BRO-1448(41)
CEE 38-MI-15



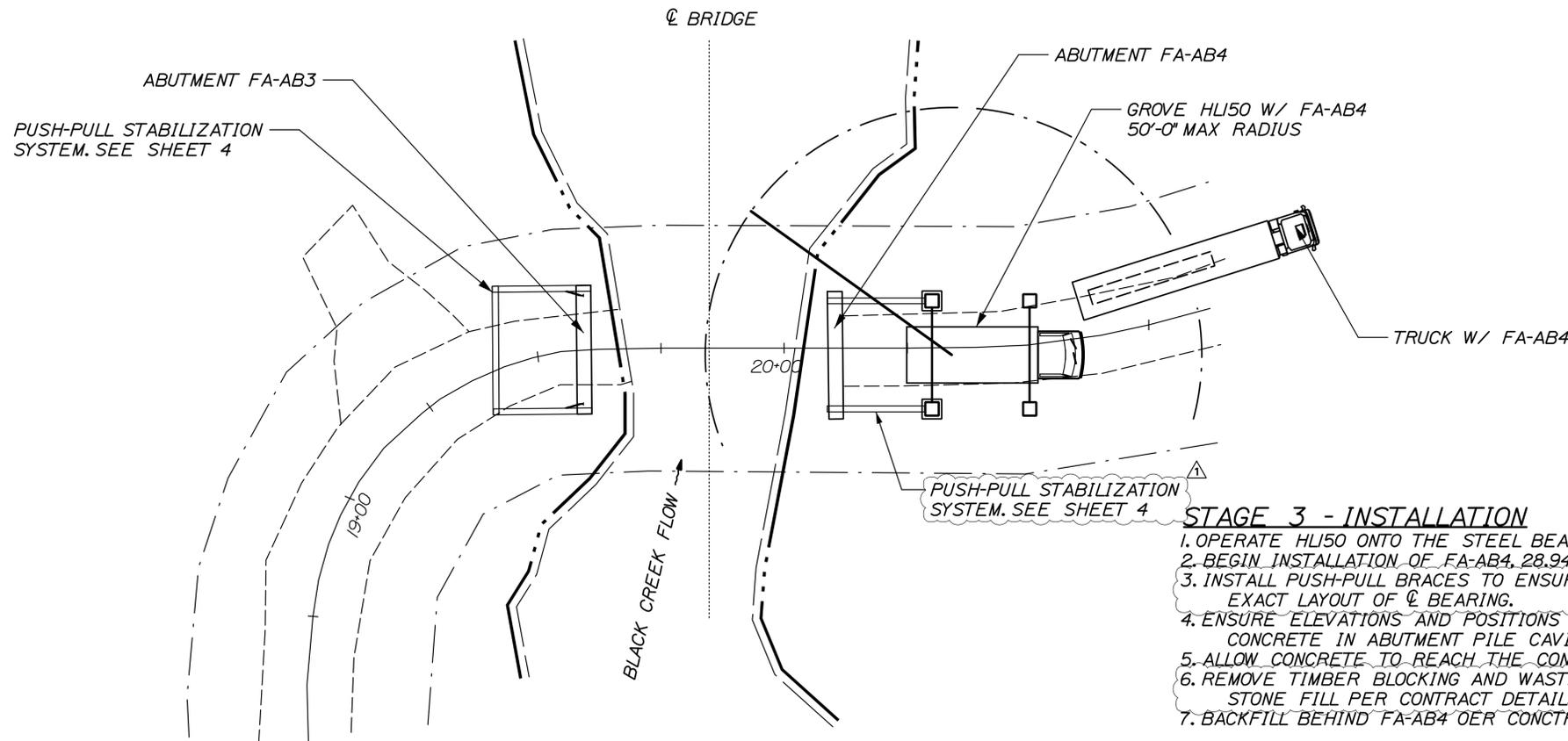
P.E. NUMBER
APR 2015
DATE

DESIGN-DETAILED	CHECKED-REVIEWED	BY	DATE
		TEPA	4/15
		ETC	4/15
REVISIONS 1		TEPA	5/15
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

**FAIRFIELD-VT ELM BROOK RD
OVER BLACK CREEK
ASSEMBLY PLAN**

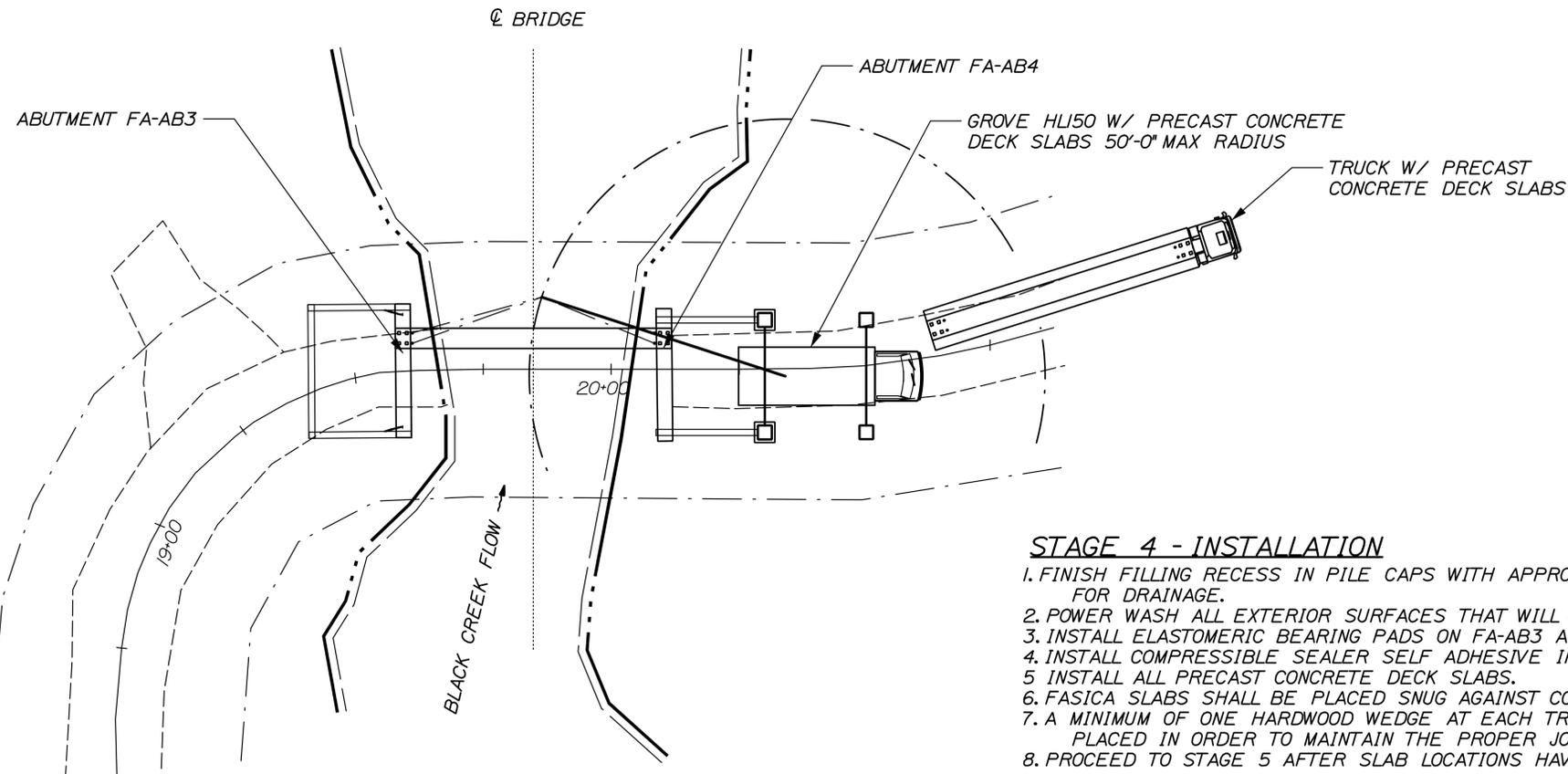
SHEET NUMBER
1





STAGE 3 - INSTALLATION

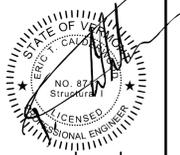
1. OPERATE HLI50 ONTO THE STEEL BEARING PLATES AND POSITION THE TRUCK WITH FA-AB4.
2. BEGIN INSTALLATION OF FA-AB4. 28.94 T. MAX RADIUS = 50 FEET
3. INSTALL PUSH-PULL BRACES TO ENSURE ABUTMENT IS PLUMB, AND TO VERIFY EXACT LAYOUT OF ϕ BEARING.
4. ENSURE ELEVATIONS AND POSITIONS ARE CORRECT ON PIECE, INSTALL RAPID SETTING CONCRETE IN ABUTMENT PILE CAVITIES (ITEM 900.607, SPECIAL PROVISIONS)
5. ALLOW CONCRETE TO REACH THE CONTRACT REQUIRED STRENGTH OF 3500 PSI.
6. REMOVE TIMBER BLOCKING AND WASTE BLOCKS AT BOTTOM OF ABUTMENT AND PLACE STONE FILL PER CONTRACT DETAILS.
7. BACKFILL BEHIND FA-AB4 OER CONTRACT DETAILS.



STAGE 4 - INSTALLATION

1. FINISH FILLING RECESS IN PILE CAPS WITH APPROVED GROUT - FINISH TOP WITH PROPER GRADE FOR DRAINAGE.
2. POWER WASH ALL EXTERIOR SURFACES THAT WILL COME INTO CONTACT WITH GROUT.
3. INSTALL ELASTOMERIC BEARING PADS ON FA-AB3 AND FA-AB4.
4. INSTALL COMPRESSIBLE SEALER SELF ADHESIVE IN POST TENSIONING SLEEVES IN DECK SLABS.
5. INSTALL ALL PRECAST CONCRETE DECK SLABS.
6. FASICA SLABS SHALL BE PLACED SNUG AGAINST CORK ON INTERIOR OF CHEEKWALL.
7. A MINIMUM OF ONE HARDWOOD WEDGE AT EACH TRANSVERSE POST-TENSIONING LOCATION SHALL BE PLACED IN ORDER TO MAINTAIN THE PROPER JOINT OPENING.
8. PROCEED TO STAGE 5 AFTER SLAB LOCATIONS HAVE BEEN VERIFIED BY THE RESIDENT ENGINEER.

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P.E. NUMBER
 APR 2015
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DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
4/15	TEPA							
4/15	ETC							
5/15	TEPA							

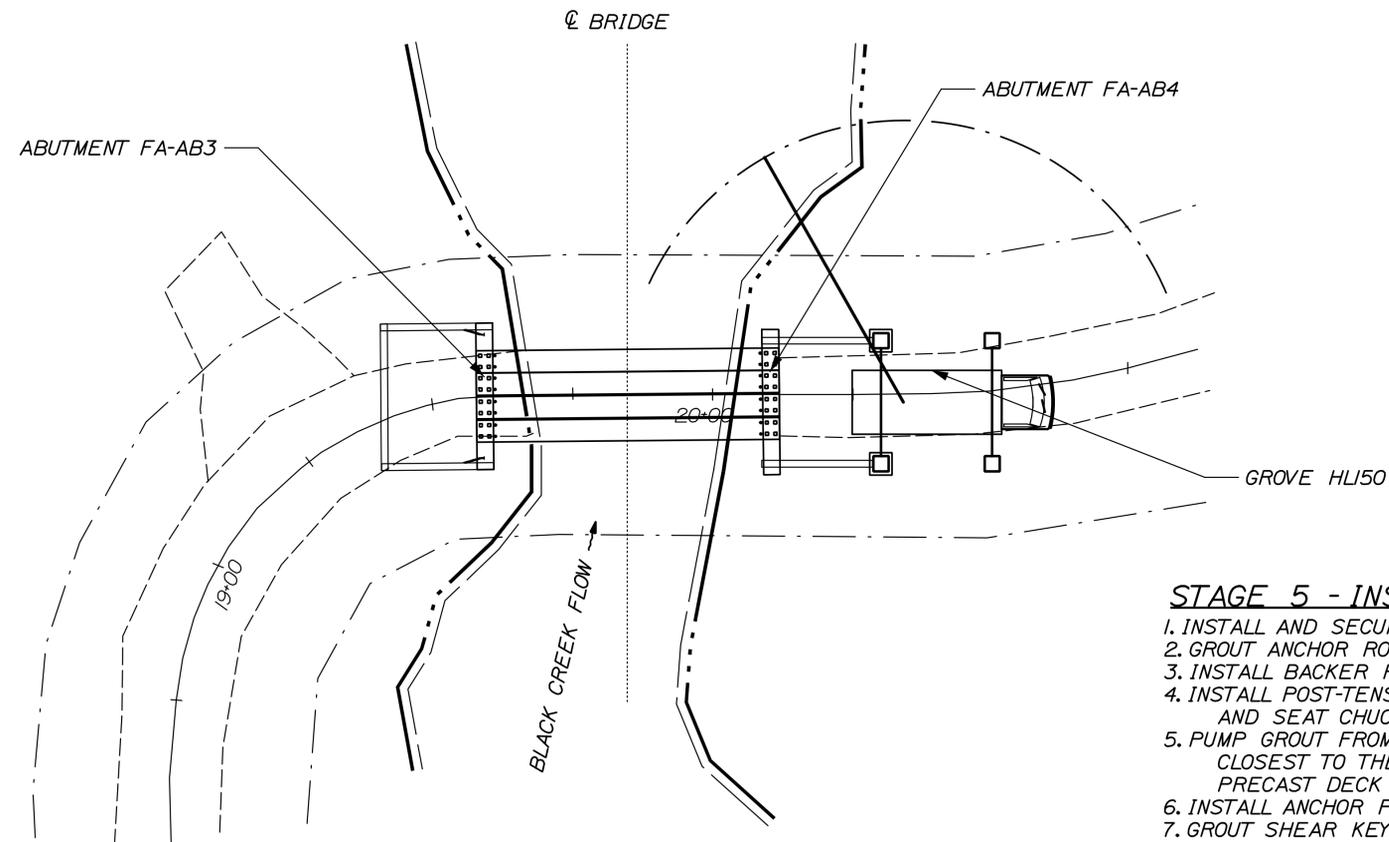
**FAIRFIELD-VT ELM BROOK RD
 OVER BLACK CREEK**

ASSEMBLY PLAN

SHEET NUMBER

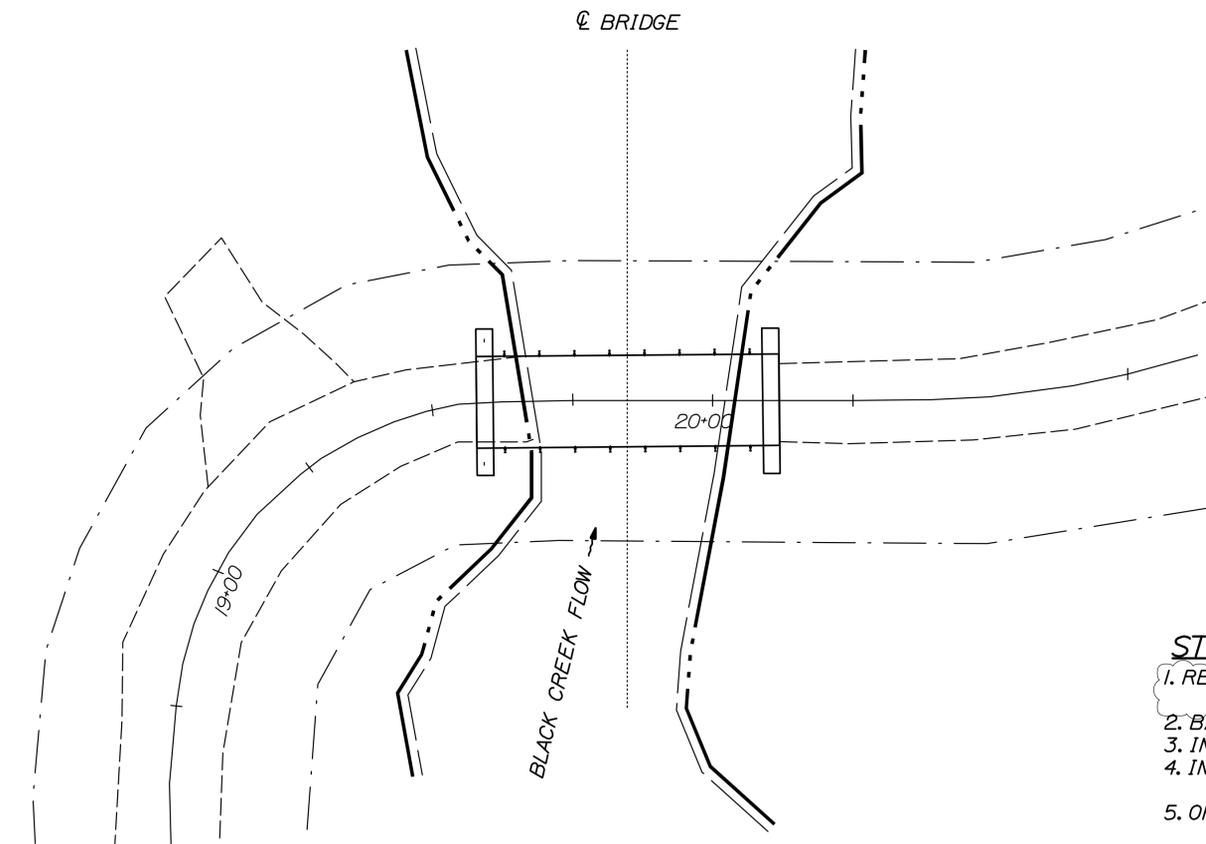
2





STAGE 5 - INSTALLATION

1. INSTALL AND SECURE ANCHOR RODS ACCORDING TO CONTRACT DETAILS.
2. GROUT ANCHOR RODS IN ABUTMENT ANCHOR ROD CAVITIES.
3. INSTALL BACKER RODS BELOW THE BOTTOM OF ALL SHEAR KEYS.
4. INSTALL POST-TENSIONING STRANDS AND TENSION TO 3 KIPS TO REMOVE SAG AND SEAT CHUCK.
5. PUMP GROUT FROM THE LOW END OF THE BRIDGE SEAT THROUGH THE ANCHOR BOLT DUCTS CLOSEST TO THE FASCIA TO FILL THE VOID BETWEEN THE SEAT AND THE BOTTOM OF THE PRECAST DECK SLABS. CONTINUE TO PUMP GROUT UNTIL ALL ANCHOR DUCTS ARE FULL.
6. INSTALL ANCHOR PLATES, WASHERS, AND NUTS FOR ALL ANCHOR BOLTS.
7. GROUT SHEAR KEYS FULLY. ALLOW GROUT TO CURE TO A MINIMUM COMPRESSIVE STRENGTH OF 600 PSI. THE CONTRACTOR SHALL MOLD AND CURE A SUFFICIENT AMOUNT OF CUBES DURING THE GROUT PLACEMENT FOR TESTING.
8. FULLY TENSION TRANSVERSE TENDONS PER CONTRACT DRAWINGS.



STAGE 6 - INSTALLATION

1. REMOVE PUSH-PULL BRACES ON BOTH ABUTMENTS. REMOVE STEEL PLATES AND EXTRACT HP 14x73 PILES FROM FA-AB4 SIDE.
2. BACKFILL EXCAVATION ON BOTH APPROACHES.
3. INSTALL CIP CONCRETE CURBS AND BRIDGE RAILING PER CONTRACT DETAILS.
4. INSTALL BRIDGE RAILING, APPLY MEMBRANE WATERPROOFING, PAVE AND INSTALL ASPHALTIC PLUG TYPE EXPANSION JOINT.
5. OPEN BRIDGE TO TRAFFIC.

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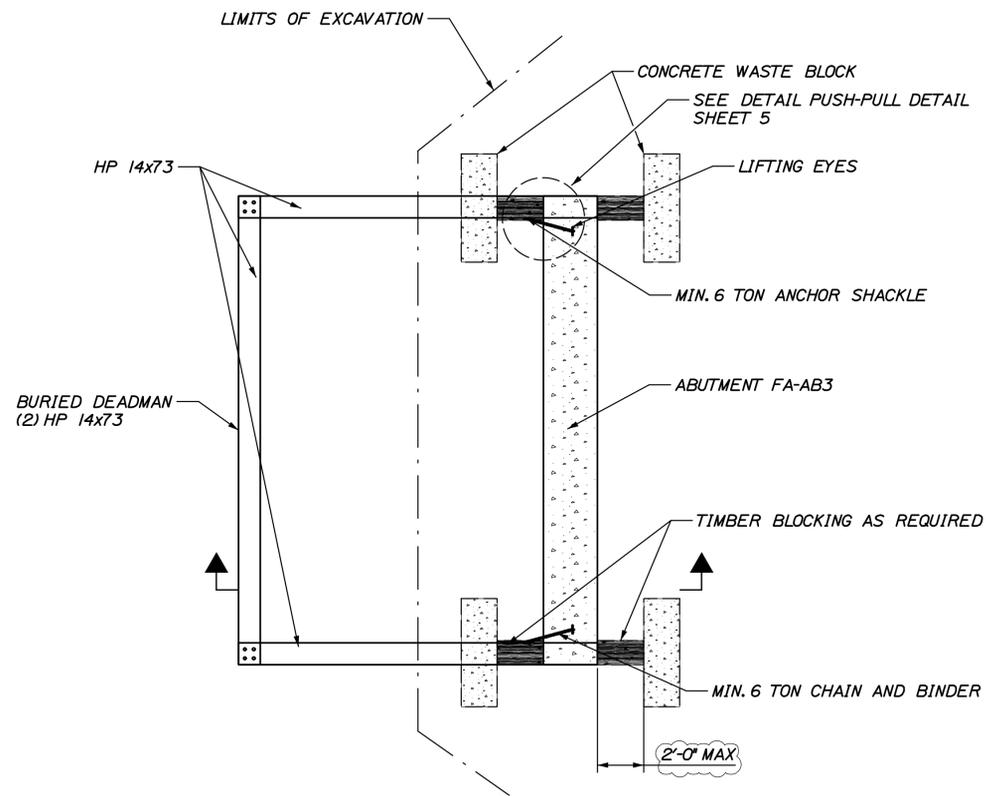
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 BY: TEPA, ETC.
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 DATE: APR 2015

DESIGN-DETAILED	CHECKED-REVIEWED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES

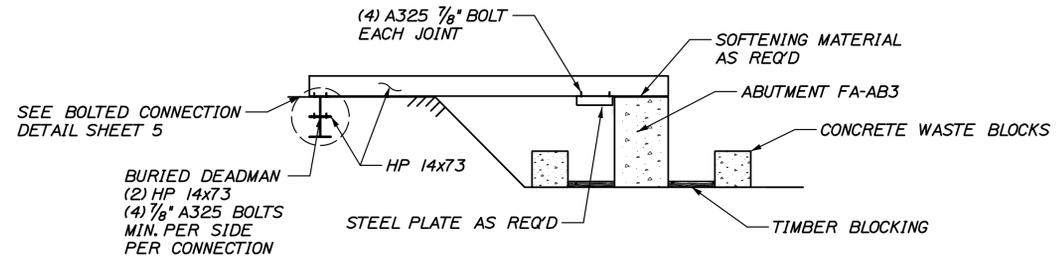
**FAIRFIELD-VT ELM BROOK RD
 OVER BLACK CREEK**
ASSEMBLY PLAN

SHEET NUMBER
3

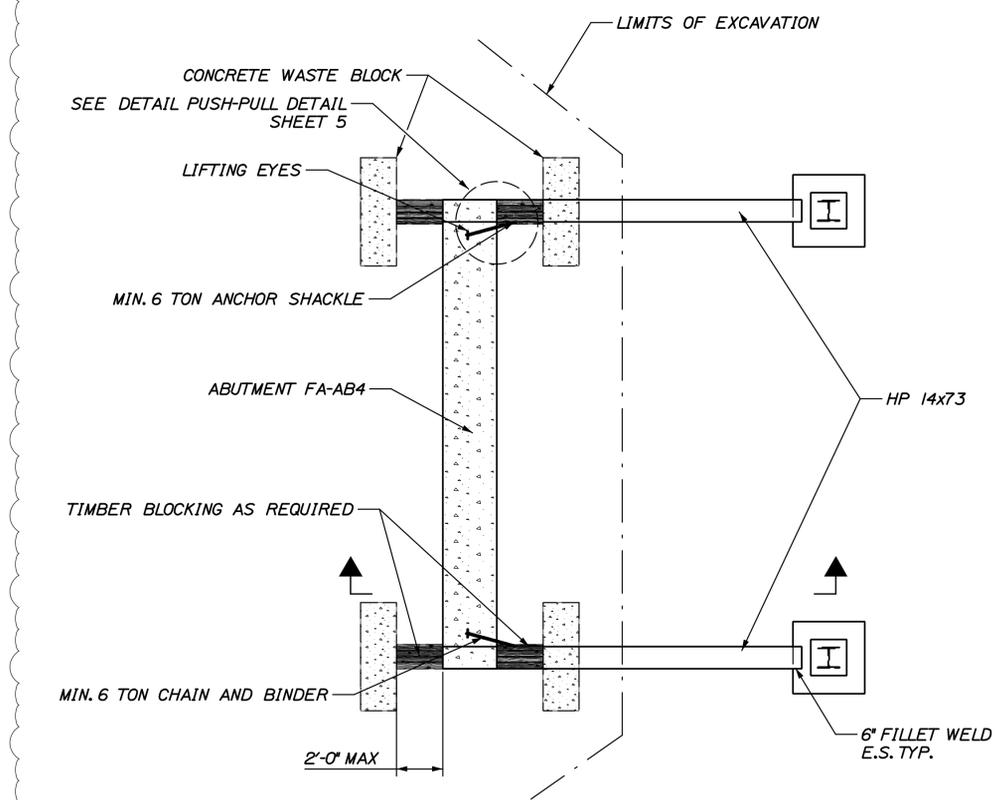




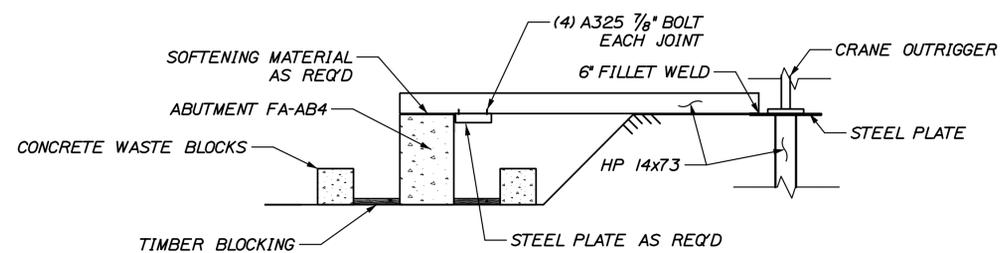
FA-AB3 DEADMAN SET UP PLAN
NOT TO SCALE



FA-AB3 DEADMAN SET UP SECTION
NOT TO SCALE

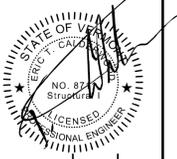


FA-AB4 DEADMAN SET UP PLAN
NOT TO SCALE



FA-AB4 PUSH-PULL SET UP SECTION
NOT TO SCALE

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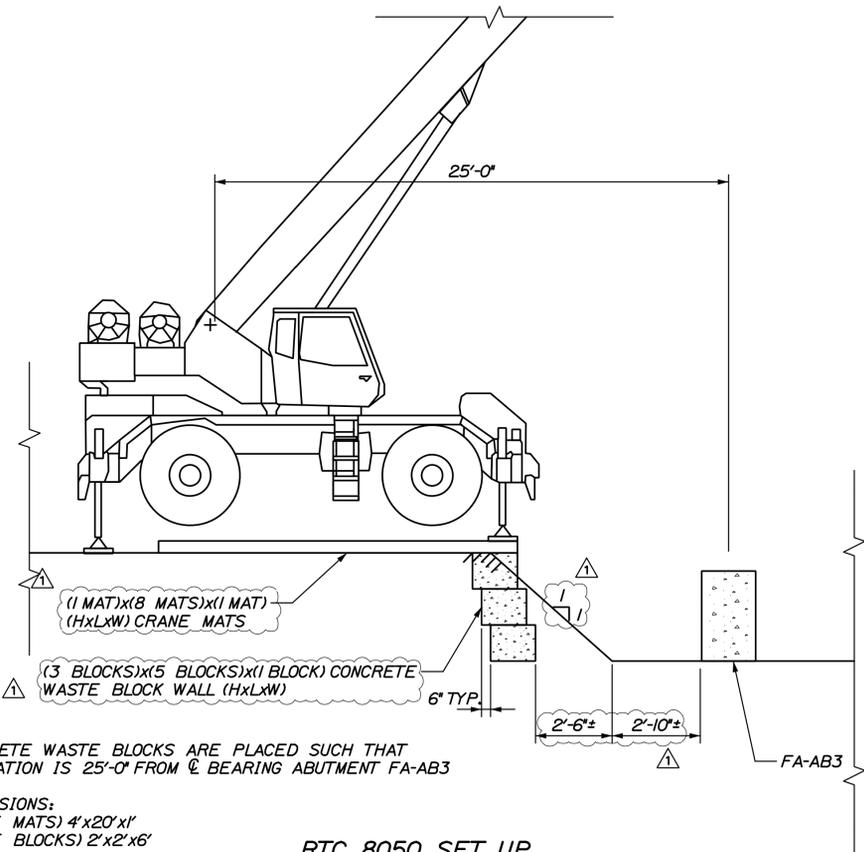
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REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
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**FAIRFIELD-VT ELM BROOK RD
OVER BLACK CREEK**
ASSEMBLY PLAN

SHEET NUMBER

4

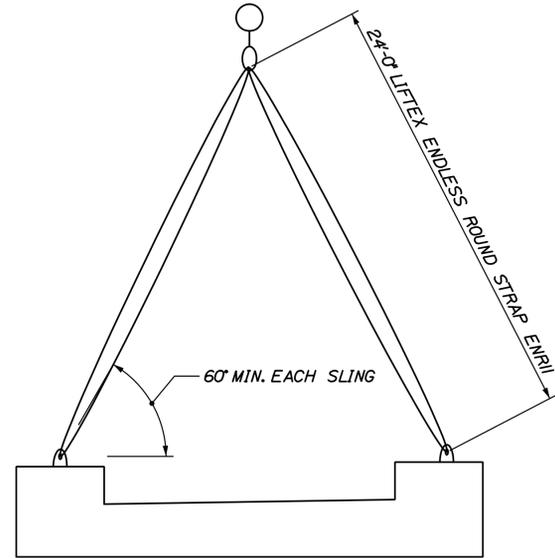




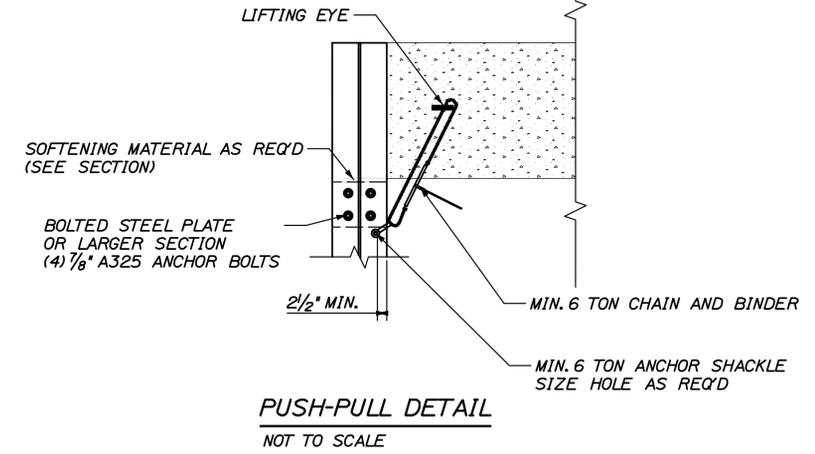
NOTE:
CONCRETE WASTE BLOCKS ARE PLACED SUCH THAT
Q ROTATION IS 25'-0" FROM Q BEARING ABUTMENT FA-AB3

DIMENSIONS:
CRANE MATS) 4'x20'x1'
WASTE BLOCKS) 2'x2'x6'

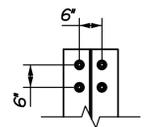
RTC 8050 SET UP
NOT TO SCALE



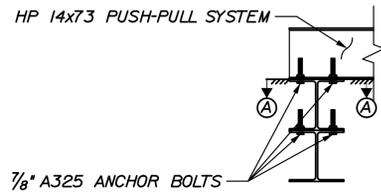
ABUTMENT LIFTING SCHEME
NOT TO SCALE



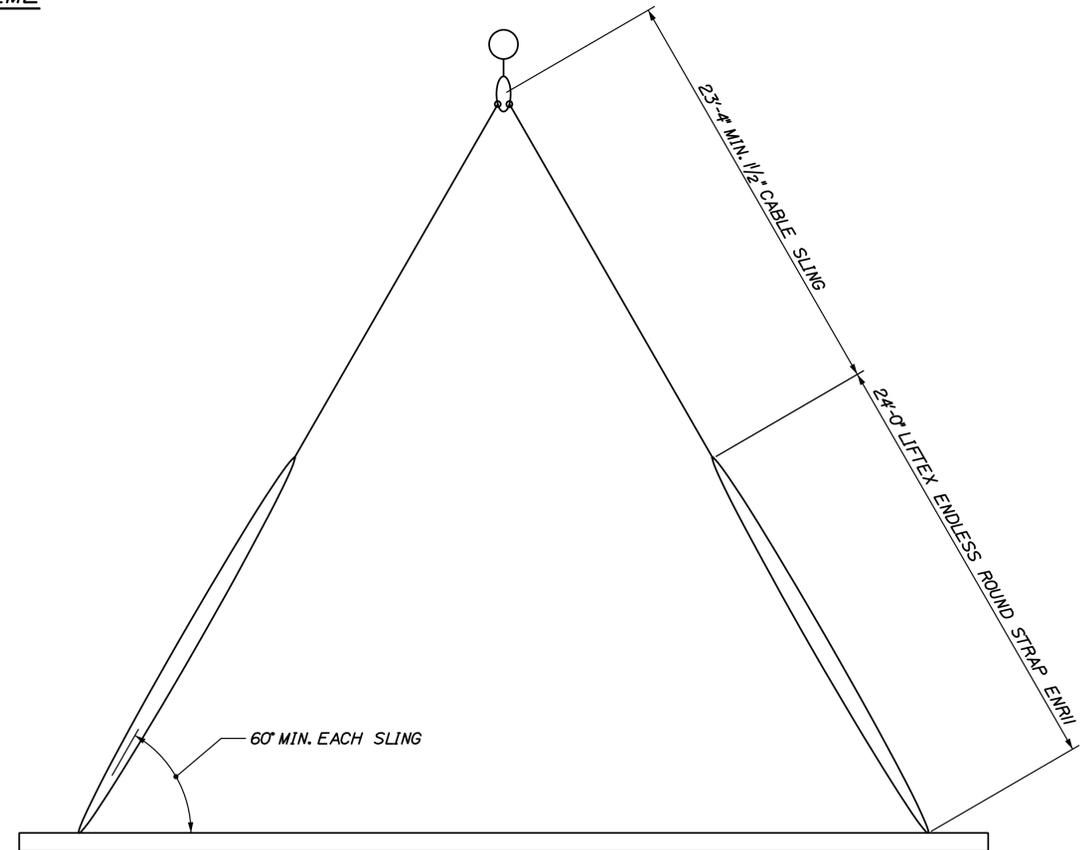
PUSH-PULL DETAIL
NOT TO SCALE



SECTION A
NOT TO SCALE

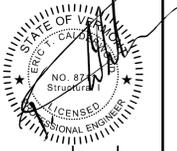


BOLTED CONNECTION DETAIL
NOT TO SCALE



PRECAST DECK PANEL LIFTING SCHEME
NOT TO SCALE

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**FAIRFIELD-VT ELM BROOK RD
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5

