PLANS.

PROJECT LOCATION:



STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT

BRIDGE PROJECT

TOWN OF CLARENDON COUNTY OF RUTLAND

ROUTE NO: TOWN HIGHWAY 39 (EAST STREET) (LOCAL ROAD, CLASS 3) BRIDGE NO: 28

- BEGINNING AT THE INTERSECTION OF GORGE ROAD AND EAST STREET APPROXIMATELY 1.4 MILES EAST OF VT ROUTE 7 AND EXTENDING SOUTHERLY ALONG EAST STREET (TH-39) FOR APPROXIMATELY 0.08 MILES

LENGTH	OF	BRIDGE:	119.04	FEET
LENGTH	OF	ROADWAY:	241.36	FEET
IENGTH	OF	PROJECT:	360.40	FFFT



STA 15+60.40

FINAL PLANS 8/19/2022

HIGHWAY DIVISION	,	CHIEF ENGINEER	
APPROVED		DATE	_
PROJECT MANAGER	8	JAMES B. McCARTHY	
PROJECT NAME : Project number :		CLARENDON BO 1443 (55)	
SHEET I OF 5	2	SHEETS	

STATE OF VERMONT AGENCY OF TRANSPORTATION

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1/5/2018

	TRAFFIC DATA					AS BUILT "REBAR" DETAIL			
							LEVEL I	LEVEL II	LEVEL III
YEAR	ADT	DHV	% D	% T	ADTT	20 year ESAL for flexible pavement from 2024 to 2044 : 156000	TYPE:	TYPE:	TYPE:
2024	720	110	62	8.1	60	40 year ESAL for flexible pavement from 2024 to 2064 : 320000	GRADE:	GRADE:	GRADE:
2044	780	120	62	10.4	80	Design Speed : 20 mph			

PRELIMINARY INFORMATION SHEET (BRIDGE)

NOT REQUIRED FOR THIS PROJECT

	WORKING	STRF	SSIOAD	RATING	(TONS)	
				TRUCK	(10110)	
LUADING LEVELS	Н	HS	3S2	6 AXLE	3A. STR.	4A.
TONNAGE	12	-	36	66	30	3
INVENTORY	12	-				
POSTING	12	-			-	
OPERATING		-	-	-	-	
COMMENTS:			•			



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FINAL HYDRA		
СТ		
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_		
_		
	TRAFFIC MAINTENANCE NOTES	
	1. MAINTAIN TRAFFIC ON AN OFF SITE DETOUR.	
	3. SIDEWALKS ARE NOT NECESSARY.	
		11.12
	2. FUTURE PAVEMENT	<u>H-12</u> d p:
	3. DESIGN SPAN	L: 119.00 FT
	4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ:
	5. PRESTRESSING STRAND 6. PRESTRESSED CONCRETE STRENGTH	fy:
	7. PRESTRESSED CONCRETE RELEASE STRENGTH	f'ci:
	8. HIGH PERFORMANCE CONCRETE, CLASS PCD 9. HIGH PERFORMANCE CONCRETE, CLASS PCS	<u>f'c:</u> f'c: 3.5 KSI
	10. CONCRETE HIGH PERFORMANCE, CLASS SCC	f'c:
	11. CONCRETE, CLASS C 12. REINFORCING STEEL	f'c: fy: 60 KSI
	13. STRUCTURAL STEEL AASHTO M270	fy:
	14. NOMINAL BEARING RESISTANCE OF SOIL	q n:
	15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD) 16. NOMINAL BEARING RESISTANCE OF ROCK	φ:
	17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ:
4A. STR. 5A. SEMI	18. PILE RESISTANCE FACTOR	φ:
34.5 38	19. LATERAL PILE DEFLECTION	Δ:
	20. BASIC WIND SPEED 21. MINIMUM GROUND SNOW LOAD	pg:
	22. SEISMIC DATA PGA:	<u>Ss:</u> S1:
	23	
	24. 25	
	26.	
	project name: CLARENDON	
	PROJECT NUMBER: BO 1443(55)	
	FILE NAME: ZIGI22801 dan PLATE.	8/19/2022
TLE	PROJECT LEADER: J.BICJA DRAWN BY:	P.DUSTIN
NNER	DESIGNED BY: J.RIPLEY CHECKED BY:	J.BICJA
	PRELIMINARY INFORMATION SHEET SHEET 2	OF 52

Version



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EXISTING AND PROPOSED PORTAL ELEVATIONS SHEET 3 OF 52



LIMITS OF CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS (SEE NOTE)

<u>NOTE</u> ALL TREE LIMBS THAT EXTEND FROM TRUNKS BEYOND THE RIGHT OF WAY SHALL BE CUT ALONG THE RIGHT OF WAY LINE UNLESS NOTED OTHERWISE. ALL COSTS INCIDENTAL TO LIMITS OF CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS.

LIMITS OF CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS (SEE NOTE)

MATERIAL TO	<u>_ERANCES</u>
SURFACE - PAVEMENT (TOTAL THIC - AGGREGATE SURFACE CO SUBBASE	KNESS) +/- $\frac{1}{4}$ " DURSE +/- $\frac{1}{2}$ " +/- "
PROJECT NAME: CLARENDON PROJECT NUMBER: BO 1443(55)	
FILE NAME: zI9j228typ.dgn PROJECT LEADER: J.BICJA DESIGNED BY: J.RIPLEY TYPICAL SECTIONS I	PLOT DATE: 8/19/2022 DRAWN BY: P.DUSTIN CHECKED BY: J.BICJA SHEET 5 OF 52

GENERAL NOTES

- G-1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2018, AND ITS LATEST REVISIONS AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION, DATED 2002, AND ITS LATEST REVISIONS. ALL WOOD CONSTRUCTION SHALL COMPLY WITH THE LATEST AASHTO SPECIFICATIONS, THE NATIONAL DESIGN SPECIFICATION (NDS) AND SUPPLEMENT FOR WOOD CONSTRUCTION.
- G-2. DESIGN OF THE REHABILITATED STRUCTURE IS FOR AN AASHTO H12 LIVE LOAD.
- G-3. THE CONTRACTOR SHALL TAKE SPECIAL CARE AND PRECAUTION TO ENSURE THAT NO DEBRIS OR COATING FALLS, DRIPS, SPATTERS, OR BLOWS INTO MILL BROOK DURING CONSTRUCTION. ALL MATERIAL FALLING IN THE AREA BELOW AND ADJACENT TO THE BRIDGE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO COST TO THE STATE.
- ALL WORK SHALL BE COMPLETED WITHIN THE EXISTING R.O.W SHOWN IN THESE PLANS. SHOULD G-4. THE CONTRACTOR REQUIRE ANY EASEMENTS TO SUIT THEIR MEANS AND METHODS OF CONSTRUCTION. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL EASEMENTS AND BEAR THE COSTS OF SUCH EASEMENTS WITHOUT FURTHER COMPENSATION FROM THE STATE.
- THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTIONS AND OTHER G-5. INFORMATION FROM THE STATE. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE CHECKED BY THE CONTRACTOR IN THE FIELD PRIOR TO COMMENCING THE WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE DIMENSIONS AND DETAILS OF EXISTING BRIDGE FEATURES AND COMPONENTS PRIOR TO THE FABRICATION OF NEW BRIDGE COMPONENTS. ACTUAL WORK SHALL MATCH FIELD CONDITIONS UNLESS NOTED OTHERWISE. ANY DISCREPANCIES IN DIMENSIONS, CHARACTER OR EXTENT OF THE EXISTING FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- BRIDGE NO. 28 WILL CLOSED FOR THE DURATION OF CONSTRUCTION AND TRAFFIC WILL BE DETOURED AROUND THE SITE. THE TOWN OF CLARENDON IS RESPONSIBLE FOR SIGNING AND MAINTAINING THE DETOUR ROUTE.
- G-7. THE COST OF INSTALLING AND MAINTAINING ALL TEMPORARY ON-PROJECT CONSTRUCTION SIGNS WILL BE INCLUDED IN ITEM 641.11, TRAFFIC CONTROL, ALL-INCLUSIVE. THE REMOVAL AND/OR RESETTING OF TRAFFIC SIGNS, AS DEEMED NECESSARY BY THE RESIDENT ENGINEER SHALL ALSO BE INCLUDED IN THE TRAFFIC CONTROL ITEM.
- EXCEPT AS NOTED OTHERWISE, ITEM 529.20, PARTIAL REMOVAL OF STRUCTURE SHALL INCLUDE ANY G-8. REMOVAL WORK NECESSARY TO FACILITATE AND ACCOMPLISH THE SCOPE OF PROJECT WORK AS INDICATED BY THE CONTRACT DOCUMENTS AND DIRECTED BY THE ENGINEER; INCLUDING REMOVING AND DISPOSING SUPERSTRUCTURE MEMBERS AND PORTIONS OF MEMBERS; AS WELL AS REMOVING AND STOCKPILING MEMBERS AND PORTIONS OF MEMBERS FOR RE-USE, INCLUDING REMOVING AND STOCKPILING MEMBERS AND PORTIONS OF MEMBERS FOR THE CONTRACTOR'S METHODS OF REHABILITATION.
- ALL MATERIALS TO BE REMOVED SHALL BE DISPOSED OF PROPERLY. THE EXISTING COVERED BRIDGE G-9. TIMBERS AND LUMBER MAY CONTAIN HAZARDOUS WOOD PRESERVATIVES. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE STATE, ITS OFFICERS AND EMPLOYEES HARMLESS REGARDING THE CONTRACTOR'S HANDLING OF THESE MATERIALS AND SUBSEQUENT USE, RE-USE, OR DISPOSAL OF THESE MATERIALS.
- G-10. SPECIAL CARE SHALL BE TAKEN TO AVOID DAMAGE TO MEMBERS THAT ARE TO REMAIN AND TO AVOID MOVEMENT OF THE TRUSS THAT COULD RESULT IN DISTORTION OR MISALIGNMENT OF THE TRUSS AND ITS JOINTS. MEMBERS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR'S EXPENSE.
- G-11. ALL JOINTS IN REPLACED MEMBERS SHALL MATCH THE EXISTING JOINT, INCLUDING ALL NAILS, BOLTS, TRUNNELS OR SCREWS REQUIRED UNLESS NOTED OTHERWISE. SEE TIMBER CONNECTION NOTES FOR ADDITIONAL INFORMATION.
- G-12. ALL EXISTING MEMBERS SHOWN TO BE REPLACED ARE TO BE REPLACED "IN-KIND" WITH NEW MEMBERS IDENTICAL IN DIMENSIONS AND CONFIGURATIONS AS THE MEMBERS ORIGINALLY USED IN THE COVERED BRIDGE (INCLUDING JOINTS, MORTISES, TENONS, NOTCHES, HOLES, ETC.) UNLESS NOTED OTHERWISE IN THESE PLANS.
- G-13. PRIOR TO COMMENCEMENT OF THE WORK THE CONTRACTOR SHALL SUBMIT ALL REQUIRED SUBMITTALS TO THE RESIDENT ENGINEER IN ACCORDANCE WITH SECTION 105 OF STANDARD SPECIFICATIONS. SEE SPECIAL PROVISIONS FOR OTHER SUBMITTALS REQUIRED FOR THIS PROJECT. THE CONTRACTOR AND FABRICATOR SHALL NOT BEGIN WORK WITHOUT APPROVAL OF THE SUBMITTALS.
- G-14. ANY MATERIAL, DEMOLITION OR CONSTRUCTION DEBRIS AND WASTE, MACHINERY OR EQUIPMENT ASSOCIATED WITH THE AUTHORIZED WORK SHOULD BE REMOVED COMPLETELY BY THE CONTRACTOR PRIOR TO THE COMPLETION OF WORK. THIS INCLUDES ALL FALSEWORK, COFFERDAMS, AND APPURTENANT STRUCTURES AND MATERIALS, AND EROSION CONTROLS WITHIN THE CHANNEL AND ON EMBANKMENTS. IN ADDITION, THE CONTRACTOR SHOULD REMOVE ANY PRE-EXISTING CONSTRUCTION DEBRIS AND WASTE FROM THE CHANNEL AND EMBANKMENT WITHIN THE CONTRACT LIMITS OF THE PROJECT. ALL COSTS WILL BE CONSIDERED INCIDENTAL TO ITEM 635.11, MOBILIZATION/DEMOBILIZATION.

TIMBER CONNECTORS NOTES

- TC-1. EXCEPT AS SPECIFIED IN THE STRUCTURAL STEEL NOTES, PAYMENT FOR STRUCTURAL LUMBER AND TIMBER AND NON-STRUCTURAL LUMBER QUANTITIES WILL INCLUDE FULL COMPENSATION FOR DETAILING, FURNISHING, TRANSPORTING, HANDLING, PLACING AND INSTALLING NEW TIMBER CONNECTORS (INCLUDING TRUNNELS AND STRENGTHENING TRUNNELS) WHICH ARE USED TO CONNECT NEW LUMBER AND TIMBER MEMBERS WITH NEW AND/OR EXISTING LUMBER AND TIMBER MEMBERS.
- TC-2. EXCEPT AS SPECIFIED IN THE STRUCTURAL STEEL NOTES, DETAILING, FURNISHING, TRANSPORTING, HANDLING, AND INSTALLING NEW AND REUSED TIMBER CONNECTORS (INCLUDING TRUNNELS) WHICH ARE USED TO CONNECT EXISTING LUMBER AND TIMBER MEMBERS SHALL BE CONSIDERED INCIDENTAL TO THE WORK REQUIRED FOR ITEM 900.645 SPECIAL PROVISION (REHABILITATING COVERED BRIDGE SUPERSTRUCTURE).

WOOD NOTES

W-1. THE MAXIMUM IN PLACE MOISTURE CONTENT OF THE WOOD USED SHALL BE AS FOLLOWS:

MEMBERS LESS THAN 5" THICK	16%
MEMBERS GREATER THAN 5" THICK	19 %
TRUNNELS	10%

ALL HARDWOOD 2.5" AND THICKER (INCLUDING BLACK LOCUST) MAY BE GREEN

CONTACT THE VTRANS/MATERIALS LAB IN BERLIN (802) 828-2561 FOR MOISTURE CONTENT TESTING OF ALL NEW LUMBER AND TIMBER BEFORE INCORPORATING INTO THE PROJECT.

- W-2. ALL NEW WOOD TRUNNELS SHALL BE MADE OF WHITE OAK. TRUNNELS SHALL BE DRIVEN IN A MANNER WHICH AVOIDS SPLITTING THE TRUNNELS OR THE MEMBER CONNECTED BY THEM. HOLES SHALL BE SIZED 1/16" IN DIAMETER SMALLER THAN THE TRUNNEL TO PROVIDE A FRICTION FIT. TRUNNELS SHALL BE DIPPED IN BOILED LINSEED OIL. MINERAL OIL OR AN APPROVED WAX PRIOR TO DRIVING.
- EACH PIECE OF NEW LUMBER AND TIMBER SHALL BE GRADED, BY A RECOGNIZED LUMBER GRADING W-3. AGENCY. INDIVIDUAL PIECES SHALL BE STAMPED WITH A GRADE STAMP AT THE END GRAIN OF THE MEMBERS. MATERIAL CERTIFICATIONS SHALL BE SUBMITTED FOR ALL WOOD (EXCEPT BLACK LOCUST) IN ACCORDANCE WITH SECTION 709.
- THE QUANTITY OF ITEM 522.20, STRUCTURAL LUMBER AND TIMBER, UNTREATED ASSUMES **REPLACEMENT OF THE FOLLOWING MEMBERS:**
 - 2 ADDITIONAL ROOF RAFTERS
 - 2 ADDITIONAL PRINCIPAL ROOF RAFTERS •
 - 1 ADDITIONAL CROSS BEAM
 - 2 ADDITIONAL UPPER LATERAL BRACES
 - 1 KNEE BRACE, 1 ADDED KNEE BRACE
 - 4 ADDITIONAL 28' LONG CHORD 1 PLIES
 - 2 ADDITIONAL 28' LONG CHORD 2 PLIES
 - 2 ADDITIONAL 28' LONG CHORD 3 PLIES
 - **5 ADDITIONAL FULL-LENGTH LATTICE**
 - 5 ADDITIONAL HALF LENGTH LATTICE
 - 1 ADDITIONAL TRUSS VERTICAL
 - 25% OF THE EXISTING MIDDLE NAILER

THE QUANTITY OF ITEM 522.25, STRUCTURAL LUMBER AND TIMBER, TREATED ASSUMES REPLACEMENT OF 1 ADDITIONAL FLOOR BEAM.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL LUMBER DIMENSIONS AND SIZES REQUIRED FOR CONSTRUCTION.

- W-5. THE QUANTITY OF ITEM 522.30, NONSTRUCTURAL LUMBER, UNTREATED ASSUMES REPLACEMENT OF ALL, PORTAL (INCLUDING TRIM BOARDS), END RETURN, UPSTREAM AND DOWNSTREAM SIDING, AND 20% OF THE EXISTING ROOF BOARDS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL LUMBER DIMENSIONS AND SIZES REQUIRED FOR CONSTRUCTION.
- ITEM 900.645, SPECIAL PROVISION (REHABILITATING COVERED BRIDGE SUPERSTRUCTURE) SHALL W-6. INCLUDE ALL COSTS ASSOCIATED WITH RE-INSTALLING STOCKPILED COMPONENTS (FROM ITEM 529.20, PARTIAL REMOVAL OF STRUCTURE) ON THE SUPERSTRUCTURE; ALTERATIONS TO IN-PLACE MEMBERS REQUIRED FOR RE-USE/REHABILITATION OF THE SUPERSTRUCTURE; TEMPORARY FALSEWORK, BRACING AND BLOCKING; ALL LABOR, MATERIALS AND SUBMITTALS REQUIRED FOR THE REHABILITATION WORK (EXCEPT AS SPECIFIED BY OTHER CONTRACT ITEMS); STRAIGHTENING, PLUMBING, AND RE-ALIGNING MEMBERS.
- W-7. ALL NUTS, BOLTS, WASHERS, AND SCREWS SHALL CONFORM TO ASTM A307, ALL NAILS AND SPIKES SHALL CONFORM TO ASTM F1667 AND BE DOUBLE HOT DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO M 232M/M 232. STAINLESS STEEL NAILS ARE REQUIRED FOR THE SIDING. SPLIT RING CONNECTORS SHALL BE MANUFACTURED FROM SAE 1010 HOT ROLLED CARBON STEEL AND GALVANIZED IN ACCORDANCE WITH ASTM A153.
- ALL STRUCTURAL LUMBER AND TIMBER NOT SHOWN ON THE WOOD MATERIALS LIST TABLE ON SHEET 8 SHALL BE DOUGLAS FIR NO. 1 OR BETTER. LIKEWISE, ALL HARDWOOD SHALL BE WHITE OAK NO. 1 OR BETTER OR BLACK LOCUST WHERE THE SPECIES IS NOT NOTED.

SUBSTRUCTURE REHABILITATION NOTES

- OTHERWISE.
- STRUCTURAL STEEL NOTES
- S-1. INCLUDE THE FOLLOWING:

 - BRACING MEMBERS.

FABRICATION DRAWINGS AND ERECTION PLAN SUBMITTALS ARE NOT REQUIRED FOR ITEM 506.75, STRUCTURAL STEEL.

TRAFFIC CONTROL NOTES

- S-1.
- S-2.

- S-5.

W-9. ALL FIELD CUTS AND BORINGS OF TREATED WOOD SHALL BE TREATED WITH TWO COATS OF COPPER NAPHTHENATE LIBERALLY APPLIED PER SECTION 522 OF STANDARD SPECIFICATIONS.

W-10. ALL LAG BOLTS AND NUTS FOR THROUGH BOLTS SHALL BE TIGHTENED SNUGLY BUT NOT SO TIGHTLY AS TO CAUSE CRUSHING OF THE WOOD UNDER THE WASHER OR PLATE.

W-11. DIMENSIONS OF ALL LUMBER AND TIMBER MEMBERS SHOWN IN THESE PLANS ARE THE ACTUAL SIZES AFTER SEASONING UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.

W-12. PRESERVATIVE TREATMENT FOR ITEM 522.25, STRUCTURAL LUMBER AND TIMBER, TREATED SHALL COMPLY WITH SUBSECTION 726.01 FOR PENTACHLOROPHENOL TYPE CCA.

W-13. AN ADDITIONAL 40 ROTTED MEMBER REPAIRS (AS SHOWN ON "EPOXY REPAIR DETAIL" ON SHEET 27) ARE INCLUDED FOR BIDDING PURPOSES. SEE THE RECOMMENDED REPAIR SEQUENCE NOTES ON SHEET 27 FOR MORE DETAILS AND INFORMATION.

SR-1. EXISTING CONCRETE ON ABUTMENTS NO. 1 AND ABUTMENT NO. 2 SHALL BE INSPECTED FOR UNSOUND CONCRETE JOINTLY BY THE ENGINEER AND CONTRACTOR. ALL UNSOUND CONCRETE BEYOND WHAT IS IDENTIFIED IN THE PLANS SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH ITEM 580.14, REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS II UNLESS INDICATED

SR-2. PRIOR TO PLACING NEW CONCRETE, THE ENTIRE REPAIR AREA SHALL BE BLAST CLEANED AND SATURATED SURFACE-DRY.

SR-3. HOLES DRILLED IN EXISTING CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ITEM 507.16. DRILLING AND GROUTING DOWELS.

EXCEPT AS NOTED OTHERWISE IN THE CONTRACT PLANS, ITEM 506.75, STRUCTURAL STEEL SHALL

- CARRIAGE BOLTS INCLUDING OGEE WASHERS AND HEAVY SQUARE NUTS FOR UPPER LATERAL

- THROUGH BOLTS AND TIE RODS AT ALL KNEE BRACES.

FLOOR BEAM HOLD DOWN STRAPS.

- FLITCH SLEEPER BEAM 1/2" THICK X 1'-2" WIDE STEEL PLATES AND CONNECTORS.

S-2. ALL NEW STRUCTURAL STEEL SHOWN IN THE PLANS INCLUDING PLATES, BOLTS, LAG BOLTS, NUTS, WASHERS, RODS, AND MISCELLANEOUS STEEL, SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO M 232M/M 232 EXCEPT FOR PLATES WHICH SHALL BE GALVANIZED PER AASHTO M 111M/ M 111. ALL STEEL PLATES AND RODS SHALL BE ASTM A36.

S-3. EXPOSED SURFACES OF ALL NEW STRUCTURAL STEEL AND HARDWARE SHALL BE COATED WITH 2 COATS OF A-H COAL TAR EPOXY 210 BY ANTI-HYDRO COMPANY, BITUMASTIC 300-M BY CARBOLINE. RUST-OLEUM C957 SYSTEM COAL TAR EPOXY, TARGUARD COAL TAR EPOXY BY SHERWIN WILLIAMS, OR OTHER EQUIVALENT APPROVED EQUAL COAL TAR EPOXY. ALL COST FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 506.75, STRUCTURAL STEEL.

PROPOSED SIGN LOCATIONS SHOWN ON SHEET 19 ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD TO PROVIDE MAXIMUM VISIBILITY AND TO MEET THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST VERSION, REQUIREMENTS.

ALL COSTS FOR INSTALLING ON-PROJECT TEMPORARY TRAFFIC CONTROL SIGNING AND BARRIERS DURING CONSTRUCTION, AS DIRECTED BY THE RESIDENT ENGINEER, WILL BE PAID FOR UNDER ITEM 621.90, TEMPORARY TRAFFIC BARRIER AND ITEM 641.11, TRAFFIC CONTROL - ALL INCLUSIVE. SIGN LAYOUT SHALL BE IN ACCORDANCE WITH VERMONT STANDARD DETAILS AND MUTCD. ITEM 630.10, UNIFORMED TRAFFIC OFFICERS AND ITEM 630.15, FLAGGERS, SHALL BE USED AS DIRECTED BY THE RESIDENT ENGINEER DURING CONSTRUCTION.

S-3. SEE VTRANS STANDARDS T-1, T-10, T-28, AND T-30 FOR SIGN PLACEMENT AND DETAILS.

S-4. NO CONSTRUCTION SIGNS SHALL BE INSTALLED IN SUCH A WAY AS TO INTERFERE OR OBSTRUCT EXISTING SIGNS, THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE AND/OR CORNER SIGHT DISTANCE FROM EXISTING DRIVES AND HIGHWAYS, SIGN LOCATION TO BE APPROVED BY THE RESIDENT ENGINEER.

ALL OFF-PROJECT DETOUR SIGNS SHALL BE THE RESPONSIBILITY OF THE TOWN OF CLARENDON.

	project name: CLARENDON project number: BO 1443(55)	
LE NER	FILE NAME: zI9j228nts.dgn PROJECT LEADER: J.BICJA DESIGNED BY: J.RIPLEY PROJECT NOTES I	PLOT DATE: 8/19/2022 DRAWN BY: P.DUSTIN CHECKED BY: J.BICJA SHEET 7 OF 52

CONCRETE AND REINFORCING STEEL NOTES

- C-1. REINFORCING STEEL SHALL BE LEVEL I AND LEVEL I EPOXY COATED AND CONFORM TO SECTION 507 AND DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE "CONCRETE REINFORCING STEEL INSTITUTE" (CRSI).
- C-2. THE KEY IN CONCRETE CONSTRUCTION JOINTS (IF REQUIRED) SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT; ANY DOWNWARD KEY SHALL BE PLACED INTEGRALLY WITH THE CONCRETE ABOVE THE JOINT.
- C-3. REINFORCING PLACEMENT TOLERANCES SHALL BE:

SPACING +/-1"

CLEARANCE +/- $^{1}/_{4}$ "

- C-4. MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE 2 ½" UNLESS NOTED OTHERWISE.
- C-5. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" x 1" UNLESS NOTED OTHERWISE.
- C-6. THE PROPOSED CONCRETE FOR THE NEW BACKWALLS, FLOOR BEAM PEDESTALS AND DRAINAGE NOTE 2 HEADWALLS SHALL BE CONCRETE CLASS A PAID UNDER ITEM 541.22, CONCRETE, CLASS A.
- C-7. ALL NEW AND EXISTING EXPOSED CONCRETE SURFACES SHALL BE SEALED AND STAINED TO ACHIEVE A DARK GRAY APPEARANCE TO MATCH AS CLOSE AS PRACTICABLE THE COLOR OF EXISTING CONCRETE, STONE FILL AND LEDGE. PAYMENT WILL BE MADE UNDER ITEM 900.625, SPECIAL PROVISION (CONCRETE STAINING AND SEALING). SEE SPECIAL PROVISION FOR ACCEPTABLE MATERIAL AND COATING SYSTEMS AND ADDITIONAL REQUIREMENTS.

SUMMARY OF QUANTITIES NOTES

Q-1. THE FOLLOWING MEMBERS ARE INCLUDED IN THE ESTIMATED LUMBER AND TIMBER QUANTITIES OF:

A. ITEM 522.20, STRUCTURAL LUMBER AND TIMBER, UNTREATED:

- RAFTERS (0.341 MFBM)
- RAFTER BEARING BLOCKS (0.050 MFBM)
- KNEE BRACES (0.113 MFBM)
- CROSS BEAMS (0.453 MFBM)
- NEW AND EXISTING UPPER LATERAL BRACING (0.912 MFBM)
- TRUSS CHORDS (3.933 MFBM)
- TRUSS LATTICE (2.376 MFBM)
- TRUSS END VERTICALS (0.240 MFBM)
- DECK RUNNERS (5.000 MFBM)
- HARDWOOD BLOCKS (0.819 MFBM)
- NAILERS (0.643 MFBM)
- ROUNDING (0.620 MFBM)

B. ITEM 522.25, STRUCTURAL LUMBER AND TIMBER, TREATED:

- SLEEPER BEAMS (1.493 MFBM)
- CURBING (1.118 MFBM)
- FLOOR BEAMS (0.980 MFBM)
- DECKING (2.220 MFBM)
- SWALE CURBING (0.294 MFBM)
- ROUNDING (0.415 MFBM)

C.ITEM 522.30, NONSTRUCTURAL LUMBER, UNTREATED:

- ROOF BOARDS (0.532 MFBM)
- SIDING AND CLADDING (4.677 MFBM)
- ROUNDING (0.291 MFBM)

	WOOD MATERIALS LIST						
COMPONENT	EXISTING AVERAGE SIZE (IN INCHES)	PROPOSED ACTUAL SIZE (IN INCHES)	PROPOSED SPECIES & GRADE	FINISH			
BEARING AND HARDWOOD BLOCKS	VARIES	VARIES	WHITE OAK NO. 1 OR BLACK LOCUST	S4S			
CROSS BEAMS	8x9	8x9	DOUGLAS FIR SEL. STR.	ROUGH SAWN			
CROSS BEAM SUPPLEMENTAL BLOCK		3X8	WHITE OAK NO. 1 OR BLACK LOCUST	ROUGH SAWN			
DECKING (NAIL LAMINATED)	1¾X6	1½X6	P.T. DOUGLAS FIR SEL. STR.	S4S			
FLOOR BEAMS	8X14	8X14	P.T. DOUGLAS FIR NO. 1	S1S (NARROW FACE)			
KNEE BRACES	3 ¾x 3 ¾	3 ¾x3 ¾	DOUGLAS FIR SEL. STR.	ROUGH SAWN			
KNEE BRACES (ADDED)	4x5	4x5	DOUGLAS FIR SEL. STR.	ROUGH SAWN			
NAILERS/SIDING SUPPORT	1½x4 OR 2x8	1½x2OR 2x8	EASTERN HEMLOCK NO. 1	ROUGH SAWN			
RAFTERS	3x5 OR 4x5	3x5 OR 4x5	DOUGLAS FIR SEL. STR.	ROUGH SAWN			
ROOF BOARDS	1" THICK	1" THICK	EASTERN HEMLOCK NO. 1	ROUGH SAWN			
RUNNER BOARDS	3" THICK	3" THICK	WHITE OAK NO. 1	S4S			
SIDING	1 X 8	1 X 8	EASTERN WHITE PINE COMMON	ROUGH SAWN			
SLEEPER BEAMS		9x14 (PAIR)	P.T. DOUGLAS FIR SEL. STR.	S4S			
TIMBER CURB		5½×7½	P.T. DOUGLAS FIR NO. 1	S4S			
TIMBER CURB BLOCKING		2½×7¼	P.T. DOUGLAS FIR NO. 1	S4S			
TRUSS CHORDS *	3x12	3×12	DOUGLAS FIR SEL. STR.	S4S			
TRUSS LATTICES AND LATTICE SPLICE BLOCKS*	3x11	3×11	DOUGLAS FIR SEL. STR.	S1S (WIDE FACE)			
UPPER LATERAL BRACING (EXISTING)	4x5	4x5	DOUGLAS FIR NO. 1	ROUGH SAWN			
UPPER LATERAL BRACING (NEW)		5x5	DOUGLAS FIR NO. 1	ROUGH SAWN			

* LATTICE AND CHORD MEMBERS SHALL BE FREE OF HEART CENTER.

	MINIMUM ALLOWABLE WOOD STRESSES								
SPECIES	SIZE	GRADE	F _b (psi)	F _t (psi)	F _v (psi)	F _{c↓} (psi)	F _c (psi)	E (×10 ⁶ psi)	
DOUGLAS FIR	2" - 4" THICK	SEL. STR.	1500	1000	180	625	1700	1.9	
DOUGLAS FIR	BEAMS & STRINGERS *	SEL. STR.	1600	950	170	625	1100	1.6	
DOUGLAS FIR	POSTS & TIMBERS **	SEL. STR.	1500	1000	170	625	1150	1.6	
DOUGLAS FIR	2" - 4" THICK	NO. 1	1000	675	180	625	1500	1.7	
DOUGLAS FIR	BEAMS & STRINGERS *	NO. 1	1350	675	170	625	925	1.6	
DOUGLAS FIR	POSTS & TIMBERS **	NO. 1	1200	825	170	625	1000	1.6	
EASTERN HEMLOCK	2" - 4" THICK	NO. 1	775	350	170	555	1000	1.1	
WHITE OAK	2" - 4" THICK	NO. 1	875	500	220	800	900	1.0	

* 5" & THICKER AND MORE THAN 2 IN. GREATER THAN THICKNESS (E.G. 12×18)

** 5" & THICKER AND NOT MORE THAN 2 IN. GREATER THAN THICKNESS (E.G. 7×8¾)

	PROJECT NAME: CLARENDON PROJECT NUMBER: BO 1443(55)	
LE NER	FILE NAME: zI9j228nts.dgn PROJECT LEADER: J.BICJA DESIGNED BY: J.RIPLEY PROJECT NOTES 2	PLOT DATE: 8/19/2022 DRAWN BY: P.DUSTIN CHECKED BY: J.BICJA SHEET 8 OF 52

STATE OF VE ENCY OF TRAN	RMONT SPORTATION				G	QUA	NT		Y SHEET 1	
	SUMMARY OF ESTIMATE	ED QUANTITIES				тот	ALS		DESCRIPTIONS	
		1011 - ROADWAY	1051 - EROSION	1211 - BRIDGE NO. 1	1999 - FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMB
		1				1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10
		410				410		СҮ	COMMON EXCAVATION	203.15
		2				2		CY	SOLID ROCK EXCAVATION	203.16
		15				15		CY	EARTH BORROW	203.30
		20				20		СҮ	TRENCH EXCAVATION OF EARTH	204.20
		1				1		СҮ	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22
		15		6		21		СҮ	STRUCTURE EXCAVATION	204.25
		10		6		16		CY	GRANULAR BACKELL FOR STRUCTURES	204 30
		190				190		CY		301.25
		25				25				401.10
										401.10
		<u>ь</u>				6		CVVI		404.65
		30				30		SY	HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES	406.38
				1		1		LS	SHORING SUPERSTRUCTURE	502.10
				1		1		LS	STRUCTURAL STEEL	506.75
				800		800		LB	REINFORCING STEEL, LEVEL I (EPOXY COATED)	507.11
				200		200		LB	REINFORCING STEEL, LEVEL I (UNCOATED)	507.11
				60		60		LF	DRILLING AND GROUTING DOWELS	507.16
				15.5		15.5		MFBM	STRUCTURAL LUMBER AND TIMBER, UNTREATED	522.20
				6.5		6.5		MFBM	STRUCTURAL LUMBER AND TIMBER, TREATED	522.25
				5.5		5.5		MFBM	NONSTRUCTURAL LUMBER, UNTREATED	522.30
				28		28		LF	JOINT SEALER, POLY URETHANE	524.21
				1		1		EACH	PARTIAL REMOVAL OF STRUCTURE	529.20
				22		22		СҮ	CONCRETE, CLASS A	541.22
				12		12		SY	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS II	580.14
		35				35		IF	15" RCP CLASS IV	601 0811
		19				10				601.0826
		13				13				001.0020
						2		EACH		601.6810
			20			20		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPET	608.25
		1				1		MGAL	DUST CONTROL WITH WATER	609.10
		70				70		CY	STONE FILL, TYPE I	613.10
		70				70		CY	STONE FILL, TYPE II	613.11
		76				76		LF	VERTICAL GRANITE CURB	616.21
		65				65		LF	REMOVAL OF EXISTING CURB	616.41
		5				5		TON	BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS	616.47
		2				2		EACH	REMOVE AND RESET MAILBOX, SINGLE SUPPORT	617.10
		158				158		LF	STEEL BACKED TIMBER GUARDRAIL	621.18
		175				175		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80
		40				40		LF	TEMPORARY TRAFFIC BARRIER	621.90
		10				10		HR	UNIFORMED TRAFFIC OFFICERS	630 10
						120			FLAGGERS	630.15
		120				120				000.10

			DETAILED SUMMARY OF QUANTITIES
ROUND	QUANTITIES	UNIT	ITEMS
	PROJECT N	IAME:	CLARENDON
	PROJECT N	IUMBER:	BO 1443(55)
	FILE NAME:	z19j228	PLOT DATE: 8/19/2022

	TIMATED QUANTITIES			TOTALS		DESCRIPTIONS			
1011 -			1051 - 1211 - BRIDGE 1999 - FULL			GRAND TOTAL FINAL UNIT		ITEMS	ITEM NUMBER
		ROADWAY		NO. 1	C.E. IIEMS				
							LS		631.10
					1	1	LS		631.16
					1	1	LS		631.17
					3000	3000	DL	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)	631.26
				14		14	EACH	CPM SCHEDULE	633.10
						1	LS	MOBILIZATION/DEMOBILIZATION	635.11
						1	LS	TRAFFIC CONTROL, ALL-INCLUSIVE	641.11
		538				538	LF	4 INCH WHITE LINE, WATERBORNE PAINT	646.201
		224				224	LF	4 INCH YELLOW LINE, WATERBORNE PAINT	646.2111
		4				4	EACH	LETTER OR SYMBOL, WATERBORNE PAINT	646.301
		12				12	LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482
		270				270	SY	GEOTEXTILE UNDER STONE FILL	649.31
			5			5	LB	SEED	651.15
			17			17	LB	FERTILIZER	651.18
			1			1	TON	AGRICULTURAL LIMESTONE	651.20
			20			20	СҮ	TOPSOIL	651.35
			45			45	SY	GRUBBING MATERIAL (12")	651.40
			1			1	LS	EPSC PLAN	653.01
			72			72	HR	MONITORING EPSC PLAN	653.02
			1			1	LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	653.03
			1			1	TON	HAY MULCH	653.10
			700			700	LF	SILT FENCE, TYPE II	653.476
			400			400	LF	BARRIER FENCE	653.50
			300			300	LF	PROJECT DEMARCATION FENCE	653.55
		71				71	SF	TRAFFIC SIGN. TYPE A	675.20
		126				126	IF	SQUARE TUBE SIGN POST AND ANCHOR	675.341
						14	EACH		675.50
									075.50
		2				2	EACH		070.00
		10				10	EACH		676.10
				193		193	EACH	SPECIAL PROVISION (WOOD EPOXY REPAIRS)	900.620
				14		14	GAL	SPECIAL PROVISION (CONCRETE STAINING AND SEALING)	900.625
				1		1	LS	SPECIAL PROVISION (REHABILITATING COVERED BRIDGE SUPERSTRUCTURE)	900.645
				1		1	LS	SPECIAL PROVISION (TIMBER COATING, ENVIRONMENTAL PROTECTION)	900.645
				1		1	LS	SPECIAL PROVISION (TIMBER COATING, FIRE RETARDANT)	900.645
				1		1	LS	SPECIAL PROVISION (TIMBER COATING, TERMITICIDE/INSECTICIDE/FUNGICIDE)	900.645
						1	LU	SPECIAL PROVISION (MAT DENSITY PAY ADJUSTMENT, SMALL QUANTITY)(N.A.B.I.)	900.650
						1	LU	SPECIAL PROVISION (MIXTURE PAY ADJUSTMENT)(N.A.B.I.)	900.650
				300		300	SY	SPECIAL PROVISION (METAL ROOFING)	900.675
		185				185	TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	900.680

				DETAILED SUMMARY OF C	UANTITIES
1BER	ROUND	QUANTITIES	UNIT	т	EMS
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		PROJECT NA	AME: JMBER:	CLARENDON BO 1443(55)	
	ł		` '		

SYMBOLOGY	Y LEGEND NOTE	POINT	CODE	DESCRIPTION
THE SYMB	OLOGY ON THIS SHEET IS INTENDED TO COVER		APL	BOUND APPARENT LOCATION
STANDARD	CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY IS		BM	BENCHMARK
USED FOR	EXISTING & PROPOSED FEATURES WITH HEAVIER	·	BND	BOUND
LINEWEIGH	T, IN COMBINATION WITH PROJECT ANNOTATION,		СВ	CATCH BASIN
AS NUIED	VERS THE RASICS SYMPOLOGY ON REAMS MAY	ģ.	СОМВ	COMBINATION POLE
VARY PLA	N ANNOTATIONS AND NOTES SHOULD BE		DITHR	DROP INLET THROATED DNC
USED TO	CLARIEY AS NEEDED.	Ļ	EL	ELECTRIC POWER POLE
		\odot	FPOLE	FLAGPOLE
		\odot	GASFIL	GAS FILLER
		\odot	GP	GUIDE POST
		×	GSO	GAS SHUT OFF
		\odot	GUY	GUY POLE
		\odot	GUYW	GUY WIRE
		\Join	GV	GATE VALVE
		Ê	Н	TREE HARDWOOD
		\triangle	HCTRL	CONTROL HORIZONTAL
			HVCTRL	CONTROL HORIZ. & VERTICAL
		Ŷ	HYD	HYDRANT
		۲	IP	IRON PIN
		0	IPIPE	IRON PIPE
		Ļ	LI	LIGHT – STREET OR YARD
		o P	MB	MAILBOX
		\odot	MH	MANHOLE (MH)
		·	MM	MILE MARKER
		Θ	PM	PARKING METER
			PMK	PROJECT MARKER
		\odot	POST	POST STONE/WOOD
			RRSIG	RAILROAD SIGNAL
		•	RRSL	RAILROAD SWITCH LEVER
			S	TREE SOFTWOOD
		- ©	SAT	SATELLITE DISH
		Ê	SHRUB	SHRUB
		$\overline{\bigcirc}$	SIGN	SIGN
		A	STUMP	STUMP
		-⊙-	TEL	TELEPHONE POLE
R.O.W. AF	BBREVIATIONS (CODES) & SYMBOLS	\odot	TIE	TIE
		$\overline{\mathbf{O} \cdot \mathbf{O}}$	TSIGN	SIGN W/DOUBLE POST
UINI CO	DE DESCRIPTION	\downarrow	VCTRL	CONTROL VERTICAL
BF	BARRIER FENCE	0	WELL	WELL
СН	CHANNEL EASEMENT		WSO	WATER SHUT OFF
100	NST CONSTRUCTION EASEMENT			
CUL	_ CULVERT EASEMENT	THESF 4	ARE COMMO	ON VAOT SURVEY POINT SYMBOLS
D&0	C DISCONNECT & CONNECT	FOR FXI	STING FFA	TURES. ALSO USED FOR PROPOSED
DIT	DITCH EASEMENT			

POINT	CODE	DESCRIPTION	×
	BF	BARRIER FENCE	0
	СН	CHANNEL EASEMENT	×
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	CUL	CULVERT EASEMENT	THESE DE
	D&C	DISCONNECT & CONNECT	FOR FXIS
	DIT	DITCH EASEMENT	FFATURES
	DR	DRAINAGE EASEMENT	WITH PRO
	DRIVE	DRIVEWAY EASEMENT	
	EC	EROSION CONTROL	
	HWY	HIGHWAY EASEMENT	PROPOS
	1&M	INSTALL & MAINTAIN EASEMENT	CODE
	LAND	LANDSCAPE EASEMENT	
	PDF	PROJECT DEMARCATION FENCE	PI
	R&RES	REMOVE & RESET	
	R&REP	REMOVE & REPLACE	PT
	R.T.&I.	RIGHT, TITLE, AND INTEREST	
	SR	SLOPE RIGHT	PRC
	UE	UTILITY EASEMENT	POB
	(P)	PERMANENT EASEMENT	POF
	(T)	TEMPORARY EASEMENT	STA
	BNDNS	BOLIND SET	ΔΗ
	BNDNS	BOUND TO BE SET	BK
\bigcirc	IPNF	IRON PIN FOUND	D
	IPNS	IRON PIN TO BE SET	R
\boxtimes	CALC	EXISTING ROW POINT	T
\bigcirc	PROW	PROPOSED ROW POINT	L
[LENC	STH]	LENGTH CARRIED ON NEXT SHEET	E
	<u>ب</u>		CB

OPOSED ANNOTATION.

SED GEOMETRY CODES

DESCRIPTION
OINT OF CURVATURE
OINT OF INTERSECTION
CENTER OF CURVE
OINT OF TANGENCY
OINT OF COMPOUND CURVE
OINT OF REVERSE CURVE
OINT OF BEGINNING
OINT OF ENDING
STATION PREFIX
HEAD STATION SUFFIX
BACK STATION SUFFIX
CURVE DEGREE OF (IOOFT)
CURVE RADIUS OF
CURVE TANGENT LENGTH
CURVE LENGTH OF
CURVE EXTERNAL DISTANCE
CHORD BEARING

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES
— s — ·· — · · - SANITARY SEWER (SEPTIC)
ABOVE GROUND UTILITIES (AERIAL)
— <i>Agu</i> — ·· — ·· - Utility (generic-unknown)
— T — ·· — · · - TELEPHONE
— E — ·· — ·· - ELECTRIC
C $$ · · - CABLE (TV)
— EC — · · - ELECTRIC+CABLE
- ET - · · - ELECTRIC+TELEPHONE
— AER E&T — ·· — · ELECTRIC+TELEPHONE
CT ··- CABLE+TELEPHONE
- ECT - · · - · ELECTRIC+CABLE+TELEPHONE

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT	DESIC
	- C7 —

IGN & LAYOUT SYMBOLOGY - cz -- - CLEAR ZONE

----- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

Δ	<u>A</u>	<u> </u>	<u> </u>	TOP OF CUT SLOPE
Ө —	-0-	0	—	TOE OF FILL SLOPE
89	82 82	8 8	89	STONE FILL
				BOTTOM OF DITCH €
==	===	====	==:	CULVERT PROPOSED
				STRUCTURE SUBSURFACE
PDF		— PDF —		PROJECT DEMARCATION FENCE
BF-	<u> </u>	— B F ——		BARRIER FENCE
$\overline{\langle XXXX}$	~~~~~	****	XXXX	TREE PROTECTION ZONE (TPZ)
///	/////	//////	///	STRIPING LINE REMOVAL
\sim	$\sim\sim$	$\sim\sim$	\checkmark	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

TOWN LINE	TOWN BOUNDARY LINE
COUNTY LINE	COUNTY BOUNDARY LINE
STATE LINE	STATE BOUNDARY LINE
— <i>///</i> — — — <i>///</i>	PROPOSED STATE R.O.W. (LIMITED ACCESS)
	PROPOSED STATE R.O.W.
	STATE ROW (LIMITED ACCESS)
	STATE ROW
	TOWN ROW
<u> </u>	PERMANENT EASEMENT LINE (P)
	TEMPORARY EASEMENT LINE (T)
++	SURVEY LINE
$\frac{P}{L} - \frac{P}{L} - \frac{P}{L}$	PROPERTY LINE (P/L)
<u>∧ SR SR SR</u> O	SLOPE RIGHTS
6f 6f	6F PROPERTY BOUNDARY
4f 4f	4F PROPERTY BOUNDARY
HAZ HAZ	HAZARDOUS WASTE

EPSC MEASURE	S
	FILTER CURTAIN
	I SILT FENCE
<u></u>	SILT FENCE WOVEN WIRE
▶ <u></u> →▶ <u></u> →▶ <u></u>	CHECK DAM
	DISTURBED AREAS
	EROSION MATTING
	-
SEE EPSC DETAIL	SHEETS FOR ADDITIONAL SYMBOLOGY
LNVIRONMENIA	AL RESOURCES
•	WETLAND BOUNDARY
	RIPARIAN BUFFER ZUNE
	WEILAND BUFFER ZUNE
T&F	THREATENED & ENDANGERED SPECIES
HAZ —— HAZ ——	HAZARDOUS WASTE AREA
AG	AGRICULTURAL LAND
——— НАВІТАТ ———	FISH & WILDLIFE HABITAT
— FLOOD PLAIN —	FLOOD PLAIN
—OHW	ORDINARY HIGH WATER (OHW)
	STORM WATER
	USDA FOREST SERVICE LANDS
	WILDLIFE HABITAT SUIT/CONN
ARCHEOLOGICA	A & HISTORIC
ARCH	ARCHEOLOGICAL BOUNDARY
	HISTORIC DISTRICT BOUNDARY
—— HISTORIC ——	HISTORIC AREA
Ĥ	HISTORIC STRUCTURE
H Conventional Existing fea	HISTORIC STRUCTURE TOPOGRAPHIC SYMBOLOGY
CONVENTIONAL EXISTING FEA	HISTORIC STRUCTURE TOPOGRAPHIC SYMBOLOGY ATURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FENCE (EXISTING) FENCE (EXISTING) FENCE STEEL POST GARDEN ROAD GUARDRAIL
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CONVENTIONAL EXISTING FEA	HISTORIC STRUCTURE TOPOGRAPHIC SYMBOLOGY ATURES TURES TOPOGRAPHIC SYMBOLOGY ATURES TURES TOPOGRAPHIC SYMBOLOGY ATURES TOPOGRAPHIC SYMBOLOGY ATURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION TOPOGRAPHIC STEEL POST COMPACT OF FENCE STEEL
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	HISTORIC STRUCTURE TOPOGRAPHIC SYMBOLOGY TURES TURES TOPOGRAPHIC SYMBOLOGY TURES
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	HISTORIC STRUCTURE
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CONVENTIONAL XISTING FEA X	HISTORIC STRUCTURE TOPOGRAPHIC SYMBOLOGY ATURES TURES TOPOGRAPHIC SYMBOLOGY ATURES TURES TOPOGRAPHIC SYMBOLOGY TURES TOPOGRAPHIC SYMBOLOGY TOPOGRAPHIC
PROJECT NAME:	HISTORIC STRUCTURE TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION FENCE (EXISTING) FENCE STEEL POST GARDEN ROAD GUARDRAIL RAILROAD TRACKS CULVERT (EXISTING) STONE WALL WOOD LINE BRUSH LINE HEDGE BODY OF WATER EDGE LEDGE EXPOSED CLARENDON BO 1443(55)
CONVENTIONAL XISTING FEA	HISTORIC STRUCTURE TOPOGRAPHIC SYMBOLOGY TURES TOPOGRAPHIC SYMBOLOGY TURES TOPOGRAPHIC SYMBOLOGY TOPOGRAPHIC SYMPACHIC SYM
CONVENTIONAL EXISTING FEA 	HISTORIC STRUCTURE TOPOGRAPHIC SYMBOLOGY TURES TURES TOPOGRAPHIC SYMBOLOGY TURES TOPOGRAPHIC SYMBOLOGY TURES TOPOGRAPHIC SYMBOLOGY TURES TOPOGRAPHIC SYMBOLOGY TOPOGRAPHIC SYMPACHIC SYMPA
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NORTH EAST ELEV.	= = =	374) 1522 815	640.7435 841.3540 5560

O STYLE MONUMENT PELLET AND THE CENTERLINE OF OR GATE 12 SOUTHWEST EDGE CORNER OF THE CLARENDON, VT. THE MARK IS SET 5 CM BELOW GROUND SURFACE IN THE TOP OF A FENO STYLE MONUMENT IN THE LAWN JUST WEST OF THE EAST CLARENDON COMMUNITY CEMETERY. IT IS 9.6 M EAST OF AND 1.0 M HIGHER THAN THE CENTERLINE OF AIRPORT ROAD, 6.9 M WEST OF THE CEMETERY FENCE, 22.2 M SOUTH OF THE CENTERLINE OF THE MAIN ENTRANCE DRIVE TO THE CEMETERY, I7.6 M NORTHWEST OF A 40 CM CEDAR AND 28.7 M NORTH OF THE CENTERLINE OF THE SOUTH ENTRANCE DRIVE TO THE CEMETERY.

	PROJECT NAME: CLARENDON PROJECT NUMBER: BO 1443(55)	
R	FILE NAME: zI9j228ti.dgn PROJECT LEADER: J.BICJA DESIGNED BY: VTRANS TIE SHEET I	PLOT DATE: 8/19/2022 DRAWN BY: C.CYR CHECKED BY:G.HITCHCOCK SHEET 12 OF 52

HORIZONTAL	NAD 83 (11)
ADJUSTMENT	COMPASS

	PROJECT NAME: CLARENDON PROJECT NUMBER: BO 1443(55)	
R	FILE NAME: zI9j228ti.dgn PROJECT LEADER: J.BICJA DESIGNED BY: J.RIPLEY TIE SHEET 2	PLOT DATE: 8/19/2022 DRAWN BY: P.DUSTIN CHECKED BY: J.BICJA SHEET 13 OF 52

<u>39 (EAST STREET)</u>	<u>CURVE DATA</u>	
<u>/E (I)</u>	<u>CURVE (2)</u>	
45°35′21.63''	Δ = 27°39′06.68″	
38° ′ 49.87''	D = 45°50′11.84''	
150.00′	R = 125.00'	
63.04′	T = 30.76′	
119.35′	L = 60.33′	
12.71′	E = 3.73'	

<u>CL</u>	JR۱	<u>/E (3)</u>
Δ	Ξ	12°40′48.56''
D	Ξ	°27′32.96''
R	Ξ	500.00′
Τ	Ξ	55.55′
L	Ξ	110.66′

PLOT DA	TE:	8/19/2022								
DRAWN B	Y:	P.DUS	TIN							
CHECKED	BY:	A.BEA	ULAC							
SHEET	14	OF	52							

DRAINAGE NOTE 2 OUTLET HEADWALL SCALE: 1/2 " = 1'-0"

SECTION C-C

	PROJECT NAME: CLARENDON	
	project number: BO 1443(55)	
R	FILE NAME: z19j228drd.dgn PROJECT LEADER: J.BICJA DESIGNED BY:	PLOT DATE: 8/19/2022 DRAWN BY: P.DUSTIN CHECKED BY: LBIC IA
	DRAINAGE DETAILS I	SHEET IT OF 52

<u>NOTE</u> CONTRACTOR AND ENGINEER SHALL JOINTLY INSPECT THE EXISTING LEDGE PRIOR TO EXCAVATION TO DETERMINE THE EXTENT OF SOLID ROCK EXCAVATION FOR HEADWALL CONSTRUCTION.

	PROJECT NAME: CLARENDON PROJECT NUMBER: BO 1443(55)	
ER	FILE NAME: zI9j228drd.dgn PROJECT LEADER: J.BICJA DESIGNED BY: J.RIPLEY DRAINAGE DETAILS 2	PLOT DATE: 8/19/2022 DRAWN BY: P.DUSTIN CHECKED BY: J.BICJA SHEET 18 OF 52

ST AGENC	TATE OF VERMONT Y OF TRANSPORTATION			1				T	R	A	FI		С	S	IG	βN		Sl			Λ/	١F	۲Y		Sł	16	EE	T	I		
		SIGN DIME	NSIONS	NEV	V & SALV	VAGED SI	GNS	EXIS ⁻ POST	T NO. OF	FLAN	IGED CI	HANNEL	-	SQUA	ARE STE	EL (in)		TUBU	NEW SIGN LAR ALUMI Ø (IN)		S	TUB	ULAR ST Ø (IN)	EEL			W-S	HAPE S	TEEL		
MILE MARKER, STATION OR	SIGNLEGEND							zĻ	Щ				1.75	2.00	2.50	R	ш	3.00	4.00 4.0		NOI	3.00	3.50	4.00	5.00	FTG.	SIZE		ZE	ED	
SIGN NUMBER			HEIGH	т "А"	"B"	SALV SIGN	SALV TIS	RETAI	POST		(LB / F	T)		(LB / FT)	ANCHC	SLEEV		(LB / FT)		DUNDAT		(LB /	FT)		24"	30"	WEIGH	POST SI	IGN FRA REQUIR	
		(in)	(in)							1.12	2.00	3.00) 1.88	2.42	3.35		OP'	1.30 TION IT	1.70 EMS	1.70	LL.	7.60	9.00	10.80	14.60					0	
STA 11+92 RT	ONE LANE BRIDGE	1 36.0	36.0	9.0					1.0						18.0	х	x														MUTCD W5-3
STA 11+92 RT	LOW CLEARANCE (WITH ARROWS)	1 36.0	36.0	9.0					0.0																						MUTCD W12-
STA 12+56 RT	STOP	1 30.0	30.0	6.3					1.0						12.0	х	x														MUTCD R1-1
STA 13+04 RT	LEGAL LOAD LIMIT 6,000 POUNDS	1 24.0	30.0	5.0					1.0						12.0	х	x														VR-017
STA 13+23 RT	OTTER CREEK WATERSHED MILL RIVER	1				x			1.0						12.0	х	x														USE SALVAG
STA 14+75 LT	LEGAL LOAD LIMIT 6,000 POUNDS	1 24.0	30.0	5.0					1.0						12.0	х	x														VR-017
STA 14+77 RT	OTTER CREEK WATERSHED MILL RIVER	1				x			1.0						12.0	х	x														USE SALVAG
STA 15+01 LT	ONE LANE BRIDGE	1 36.0	36.0	9.0					1.0						18.0	х	x														MUTCD W5-3
STA 15+01 LT	LOW CLEARANCE (WITH ARROWS)	1 36.0	36.0	9.0					0.0																						MUTCD W12-
STA 15+25 LT	YIELD	1 36.0	36.0	3.9					1.0						15.0	х	x														MUTCD R1-2
STA 15+25 LT	TO ONCOMING TRAFFIC	1 24.0	18.0	3.0					0.0																						MUTCD R1-2a
STA 15+66 RT	STOP	1 30.0	30.0	6.3					1.0						15.0	х	x														MUTCD R1-1
STA 15+66 RT	GORGE RD	1 36.0	12.0	3.0					0.0																						D3-1
STA 15+66 RT	EASTST	1 30.0	12.0	2.5					0.0																						D3-1
FINAL POST LEI FIELD. POST SI INFORMATION F	NGTHS ARE TO BE DETERMINED IN THE IZES ARE COMPUTED BASED ON FURNISHED ON THE STANDARD SHEETS	- '								FT	FT	FT	FT	FT	FT 126.	XXXXX XXXXX XXXXX XXXXX XXXXX	EA	LB	LB	LB		LB	LB	LB	LB					I	
AND THE VTRA	NS "SIGN POST DESIGN GUIDELINE."	ΤΟΤΑ	LS	SF 71.	SF	EA.	SF XX XX · XX	XXXX XXXX XXXX	xxxxxx xxxxxx xxxxxx	\langle	FT				FT 126.				LB		EA.		LI	3		EA.	EA.	LB		じ	/ TAN

		SIGN	DETAIL
	REMARKS	DETAIL ON SHEET NUMBER	STANDARD SHEET NUMBER
2 (10'-0")			
			T-70
ED SIGN			
			T-70
ED SIGN			
2 (10'-0")			
			E-146
P			
	PROJECT NAME: CLARE PROJECT NUMBER: BO 144	NDON 43(55)	
LE NER	FILE NAME: z19j228tss.dgn PROJECT LEADER: J.BICJA DESIGNED BY: J.RIPLEY TRAFFIC SIGN SUMMARY		PLOT DRAW CHECP SHEE

<u>NOTES</u>

- I. SEE SHEET 27 FOR ADDITIONAL DETAILS THAT PERTAIN TO THIS SHEET.
- 2. METAL ROOF AND ROOF BOARDS ARE PARTIALLY SHOWN FOR CLARITY.
- 3. INDIVIDUAL ROOF BOARDS IN NEED OF REPLACEMENT HAVE NOT BEEN IDENTIFIED. CONTRACTOR AND ENGINEER SHALL JOINTLY INSPECT AND IDENTIFY ROOF BOARDS IN NEED OF REPLACEMENT. EXISTING I" THICK ROOF BOARDS VARY FROM 5" WIDE TO 16" WIDE WITH GAPS BETWEEN ADJACENT BOARDS OF O'' TO I''. ALL REPLACEMENT BOARDS SHALL MATCH THE EXISTING WIDTH AND CONFIGURATION AS MUCH AS PRACTICABLE. WHERE EXISTING BOARDS IN NEED OF REPLACEMENT ARE OVER 8" WIDE, MULTIPLE BOARDS MAY BE USED. IN NO CIRCUMSTANCE SHALL THE WIDTH OF A REPLACEMENT BOARD BE LESS THAN 5".
- 4. EACH FACE OF EXISTING AND REPLACED 3"×5" ROOF RAFTERS SHALL BE TOE NAILED TO PLY "B" OF CHORD I WITH ONE 20d GALVANIZED SINKER NAIL. SUCH WORK WILL BE PAID FOR UNDER ITEM 900.645, SPECIAL PROVISION (REHABILITATING COVERED BRIDGE SUPERSTRUCTURE).
- 5. REMOVE, STORE AND RE-SET 3' +/- OF ROOF BOARDS ALONG EACH EAVE FOR TRUSS REPAIRS. PAID UNDER ITEM 900.645, SPECIAL PROVISION (REHABILITATING COVERED BRIDGE SUPERSTRUCTURE).

RIDGE CAP

SCALE: |" = |'-0"

<u>LEGEND</u>

	PREDETERMINED MEMBER TO E	BE REPLACED
(XX)	TRUSS NODE LOCATION	
E	ITEM 900.620, SPECIAL PRO (WOOD EPOXY REPAIRS)	DVISION
SH	SHIM WITH HARDWOOD BELOW ITEM 900.645, SPECIAL PRO (REHABILITATE COVERED BRI	RAFTER (PLY B) DVISION DGE SUPERSTRUCTURE)
+	APPROXIMATE LOCATION OF C (NOT SHOWN FOR CLARITY)	CROSS BEAM
PROJE	CT NAME: CLARENDON CT NUMBER: BO 1443(55)	
FILE N PROJE DESIGN ROOF	IAME: zI9j228sup3.dgn CT LEADER: J.BICJA NED BY: J.RIPLEY FRAMING PLAN	PLOT DATE: 8/19/2022 DRAWN BY: P.DUSTIN CHECKED BY: J.BICJA SHEET 22 OF 52

	PREDETERMINED MEMBER TO BE	REPLACED
	NEW MEMBER	
\times	TRUSS NODE LOCATION	
K	REPLACE EXISTING KNEE BRAC	E
ΚA	REPLACE EXISTING ADDED KNE	E BRACE
E	ITEM 900.620, SPECIAL PROV (WOOD EPOXY REPAIRS) (CROSS	ISION BEAM)
ΕK	ITEM 900.620, SPECIAL PROV (WOOD EPOXY REPAIRS) (KNEE	ISION BRACE)
ΕΑ	ITEM 900.620, SPECIAL PROV (WOOD EPOXY REPAIRS) (ADDIT	ISION IONAL KNEE BRACE)
PROJE	ECT NAME: CLARENDON	
PROJ	ест NUMBER: BO 1443(55)	
FILE PROJE	NAME: zI9j228sup4.dgn ECT LEADER: J.BICJA	PLOT DATE: 8/19/2022 DRAWN BY: P.DUSTIN

						*
E4						
				E4		
				¥		
		INSTALL (2) ½ RODS WITH PLA GAP BETWEEN P	<u>e'' DIAMETER C</u> TE WASHERS AN LIES C AND D	GALVANIZED THRE ND HEX NUTS TO (SEE DETAIL, S	ADED CLOSE HEET 31)	
	1 1 1		1 1	1 1 1	1 1	1
(14) (15) (16) (1 <u>TIGHTEN LOOSE</u>		$\begin{array}{c c} \hline \hline$	23 24 3''×!!''	25 26 27 LATTICE (TYP)) 28 29	30
SPLICE BOLT						<u>`</u>
	2 2					
						30
<u>SCALE: 3/16 '' = 1</u>	<u>EST/DOWNS</u> '-0''	<u>TREAM)</u>				
ISTALLATION OF CHORI	D 4 STRENGTHEN	ING TRUNNELS				
IS A, B, C AND D) (S	EE DETAIL, SHE	ET 29)				
S AND PLUG	NOTES					
TRUSS)	I. SEE S	HEETS 29-31 FO	R REPAIR LEGE	END, ADDITIONAL	Т . н	IOY
	DETAI	LS, AND NOTES	IHAI PERIAIN	IU IHIS SHEET.	U	AN

SCALE: |'' = |'-0''

SCALE: |'' = |'-0''

RAFTER @ 4'-0" O.C.

NEW 3"×3"×8" RAFTER BEARING BLOCK WITH 2-1/2" DIA × 6" LONG

SCALE: |'' = |' - O''

MEMBER TO BE/ REPAIRED

REMOVE 1/4 " BEYOND ROTTED MATERIAL AND INSTALL WOOD EPOXY PER MANUFACTURER'S RECOMMENDATIONS

EPOXY REPAIR DETAIL

RECOMMENDED REPAIR SEQUENCE

- OR EQUAL TO I INCH IN DEPTH, SHALL BE REPAIRED AS SHOWN ENGINEER.
- SAWCUT 1/8 " DEEP AROUND PERIMETER OF REPAIR AREA.
- PER MANUFACTURER'S RECOMMENDATIONS.
- ENGINEER.
- 5. FOR ADDITIONAL INFORMATION, SEE NOTE W-13, SHEET 7.

(ROOF RAFTER OR OTHER MEMBER) NOT TO SCALE

I. IDENTIFIED ROTTED MATERIAL IN LUMBER AND TIMBER MEMBERS, IF LESS THAN ABOVE ON THE "EPOXY REPAIR DETAIL". IF ROT IS GREATER THAN I INCH IN DEPTH, THE ENTIRE MEMBER SHALL BE REPLACED AS DIRECTED BY THE RESIDENT

2. REMOVE ALL ROTTED MATERIAL TO A MINIMUM OF $\frac{1}{4}$ " BEYOND EXTENT OF ROT.

3. CLEAN EXISTING MEMBER OF ALL DIRT, SAWDUST, ETC. AND PREPARE SURFACE

4. INSTALL/INJECT APPROVED WOOD EPOXY REPAIR MATERIAL PER MANUFACTURER'S RECOMMENDATIONS, (PAID UNDER ITEM 900.620, SPECIAL PROVISION (WOOD EPOXY REPAIRS)). COLOR OF REPAIR MATERIAL SHALL MATCH EXISTING WOOD. A COMPLETED TEST SECTION SHALL BE MADE FOR APPROVAL BY THE RESIDENT

	project name: CLARENDON project number: BO 1443(55)	
LE NER	FILE NAME: zI9j228sup7.dgn PROJECT LEADER: J.BICJA DESIGNED BY: J.RIPLEY SUPERSTRUCTURE DETAILS I	PLOT DATE: 8/19/2022 DRAWN BY: P.DUSTIN CHECKED BY: J.BICJA SHEET 27 OF 52

TRUS	<u>S REPAIR LEGEND</u> predetermined member to be replaced	17
	INSTALL NOTCHED SPLICE BLOCK (SEE DETAIL, SHEET 30)	TAPERED END CUT
2	INSTALL (2) 4" SPLIT RING CONNECTORS (SEE DETAIL, SHEET 30)	
JT	CHORD PLY BUTT JOINT	
XX	TRUSS NODE LOCATION	
S	REPAIR SPLIT IN LATTICE (SEE DETAIL, SHEET 31)	TRUNNEL DIAMETER SHALL 2'' DIA AND SHALL BE
ΕI	FILL I" DIA HOLE WITH EPOXY (PLY D) ITEM 900.620, SPECIAL PROVISION (WOOD EPOXY REPAIRS)	APPROXIMATELY 1/16'' LARG THAN HOLE DIAMETER
E2	FILL I ¹ / ₂ " DIA HOLE WITH EPOXY (ALL 4 PLIES) ITEM 900.620, SPECIAL PROVISION (WOOD EPOXY REPAIRS)	<u>Chord i</u> <u>Tr</u>
E 3	REPAIR SPLIT ON TOP FACE WITH LIQUID WOOD EPOXY. ITEM 900.620, SPECIAL PROVISION (WOOD EPOXY REPAIRS)	TAPERED END CUT
E 4	REPAIR CHORD SPLIT (SEE CHORD SPLIT REPAIR, SHEET 30)	
E5	FILL ¾'' DIA HOLE WITH EPOXY (PLY B) ITEM 900.620, SPECIAL PROVISION (WOOD EPOXY REPAIRS)	
E6	FILL (2) ¾'' DIA HOLE WITH EPOXY (PLYS B, A) ITEM 900.620, SPECIAL PROVISION (WOOD EPOXY REPAIRS)	TRUNNEL DIAMETER SHALL
BI	REMOVE AND REPLACE ALL EXISTING CHORD 4 BOLTS WITH TRUNNELS SEE DETAILS AND NOTES, THIS SHEET	BE 2 ¹ / ₈ " DIA FOR BIDDI PURPOSES (SEE CHORD 4 NOTES, THIS SHEET)
RI	REMOVE TIMBER BRACE	CHORD
R2	REMOVE TIE ROD AND FILL (2) $1\frac{1}{2}$ " DIA HOLES WITH EPOXY (ALL 4 PLIES) ITEM 900.620, SPECIAL PROVISION (WOOD EPOXY REPAIRS)	SEE CHORD 4 STE TRUNNEL DETAIL SHEET (TYP)
R3	REMOVE TIE ROD AND FILL I" DIA HOLES WITH EPOXY (ALL 4 PLIES) ITEM 900.620, SPECIAL PROVISION (WOOD EPOXY REPAIRS)	
ΤI	REPLACE TRUNNEL (SEE DETAIL, THIS SHEET)	
Τ2	REMOVE TRUNNEL, FILL WITH EPOXY, DRILL FOR CORRECT TRUNNEL DIA, INSTALL NEW TRUNNEL. ITEM 900.620, SPECIAL PROVISION (WOOD EPOXY REPAIRS)	
L	CUT LATTICE TAILS FLUSH WITH BOTTOM FACE OF CHORD 4 FOR BEARING ONTO SLEEPER BEAM. 900.645, SPECIAL PROVISION (REHABILITATING COVERED BRIDGE SUPERSTRUCTURE)	<u>Note</u> Install Sui
G	SHIM ALL GAPS BETWEEN EXISTING LATTICE SPLICES TO REMAIN WITH HARDWOOD SHIMS. 900.645, SPECIAL PROVISION (REHABILITATING COVERED BRIDGE SUPERSTRUCTURE)	<u>CHOR</u>

SCALE: |" = |'-0"

	project name: CLARENDON project number: BO 1443(55)	
LE NER	FILE NAME: zI9j228sup9.dgn PROJECT LEADER: J.BICJA DESIGNED BY: J.RIPLEY SUPERSTRUCTURE DETAILS 3	PLOT DATE: 8/19/2022 DRAWN BY: P.DUSTIN CHECKED BY: J.BICJA SHEET 29 OF 52

SCALE: |" = |'-0"

TRUSS / LATTICE

CHORD 4

€ BOLT HOLE

<u>NOTE</u>

I. THE REPAIR OF SPLITS ON LATTICE AND CHORD MEMBERS, AS SHOWN ON THIS SHEET, ARE PAID UNDER ITEM 900.620, SPECIAL PROVIDSION (WOOD EPOXY REPAIRS). SEE SHEET 27 FOR THE RECOMMENDED REPAIR SEQUENCE.

	project name: CLARENDON project number: BO 1443(55)	
.E NER	FILE NAME: zI9j228supII.dgn PROJECT LEADER: J.BICJA DESIGNED BY: J.RIPLEY SUPERSTRUCTURE DETAILS 5	PLOT DATE: 8/19/2022 DRAWN BY: P.DUSTIN CHECKED BY: J.BICJA SHEET 31 OF 52

	EXISTING AND AS-BUILT SWEEP (INCHES)							
NODE #	(1A)	(1B)	(1C)	(1D)	(2A)	(2B)	(2C)	(2D)
4	-0.13		-1.13		-0.88		-0.50	
6	0.75		-1.00		-1.50		-2.75	
8	0.75		-0.50		-1.38		-3.13	
10	0.88		-0.38		-0.63		-2.88	
12	1.38		-0.50		-1.00		-2.75	
14	1.50		-0.75		-2.25		-2.75	
16	1.50		-0.25		-2.63		-3.00	
18	2.25		-0.50		3.25		-2.00	
20	2.50		0.00		-3.25		-1.75	
22	1.75		-0.50		-2.63		-1.63	
24	1.13		-0.38		-2.50		-1.63	
26	0.63		-0.50		-1.63		-1.00	
28	0.50		-0.38		-0.88		0.50	

* NEGATIVE VALUES INDICATE INWARD SWEEP

(1A) EXISTING SWEEP - EAST TRUSS CHORD 1

(1B) AS-BUILT SWEEP - EAST TRUSS CHORD 1

(1C) EXISTING SWEEP - EAST TRUSS CHORD 3

(1D) AS-BUILT SWEEP - EAST TRUSS CHORD 3

(2A) EXISTING SWEEP - WEST TRUSS CHORD 1

(2B) AS-BUILT SWEEP - WEST TRUSS CHORD 1

(2C) EXISTING SWEEP - WEST TRUSS CHORD 3

(2D) AS-BUILT SWEEP - WEST TRUSS CHORD 3

NOT TO SCALE

EXISTING AND AS-BUILT CAMBER (INCHES)*						
NODE #	(1A)	(1B)	(2A)	(2B)		
4	0.00		0.00			
6	-0.66		-1.05			
8	-1.20		-1.02			
10	-1.02		-1.71			
12	-1.08		-0.84			
14	-0.90		-1.05			
16	-0.48		-0.78			
18	-0.66		-0.75			
20	-0.60		-0.72			
22	-1.02		-0.69			
24	-1.20		-0.54			
26	-0.78		-0.03			
28	0.00		0.00			

* NEGATIVE VALUES INDICATE SAG

(1A) EXISTING CAMBER - EAST TRUSS

(1B) AS-BUILT CAMBER - EAST TRUSS

(2A) EXISTING CAMBER - WEST TRUSS

(2B) AS-BUILT CAMBER - WEST TRUSS

6"×6" (NOM) P.T. TIMBER SWALE CURB. NOMINAL LENGTH SHALL BE 8' BUT MAY BE MODIFIED TO ACCOMMODATE PROPOSED DITCH CURVATURE (PAID AS STRUCTURAL LUMBER AND TIMBER, TREATED).

TIMBER SWALE CURBING DETAIL (STA 15+07 TO STA 15+89, RT) NOT TO SCALE

SWEEP AND CAMBER NOTES

- APPROXIMATE.
- SUPERSTRUCTURE).

I. TRUSS NODES ARE LOCATED AT THE CENTER OF THE INTERSECTION OF LATTICE MEMBERS WITH CHORD I AND CHORD 4.

2. ALL VALUES IN THE CAMBER TABLE ARE MEASURED FROM THE REFERENCE LINE THAT IS A STRAIGHT LINE CONNECTING POINTS LOCATED AT THE TOP FACE OF CHORD 3. ALL VALUES WERE OBTAINED IN JUNE 2020 AND MAY 2022 AND ARE APPROXIMATE.

3. THE CONTRACTOR SHALL JACK THE BRIDGE TO A MAXIMUM OF 2" MIDSPAN CAMBER PRIOR TO REPLACING TRUSS MEMBERS. CONTRACTOR SHALL BE AWARE THE MEASURES NOT SHOWN ON THESE PLANS SUCH AS TEMPORARY REMOVAL OF EXISTING TRUSS OR FLOOR SYSTEM MEMBERS MAY BE REQUIRED TO INDUCE POSITIVE CAMBER INTO THE TRUSS. ALL COST OF SUCH WORK IS PAID UNDER ITEM 900.645. SPECIAL PROVISION (REHABILITATING COVERED BRIDGE SUPERSTRUCTURE).

4. ALL VALUES IN THE SWEEP TABLE ARE MEASURED FROM THE REFERENCE LINE THAT IS A STRAIGHT LINE CONNECTING POINTS LOCATION ALONG THE INTERIOR FACE OF CHORD I AND CHORD 3. ALL VALUES WERE OBTAINED IN MAY 2022 AND ARE

5. THE EXISTING COVERED BRIDGE SHALL BE JACKED AND BRACED AS REQUIRED PRIOR TO THE START OF REALIGNMENT OPERATIONS SUCH THAT THE MAXIMUM SWEEP IS 0.5". INSTALLATION OF NEW TRUSS MEMBERS SHALL NOT BEGIN UNTIL REALIGNMENT OPERATIONS ARE COMPLETE. CONTRACTOR SHALL BE AWARE THAT MEASURES NOT SHOWN ON THESE PLANS SUCH AS LOOSENING OF EXISTING CONNECTIONS, MODIFYING EXISTING NOTCHING OR TEMPORARY REMOVAL AND REPLACEMENT OF ROOF, UPPER LATERAL BRACING, TRUSS, OR FLOOR SYSTEM MEMBERS MAY BE REQUIRED TO RE-ALIGN THE EXISTING COVERED BRIDGE. ALL COST OF SUCH WORK IS PAID UNDER ITEM 900.645, SPECIAL PROVISION (REHABILITATING COVERED BRIDGE SUPERSTRUCTURE).

6. THE CONTRACTOR SHALL PROVIDE TO THE RESIDENT ENGINEER THE MEASUREMENTS OF THE AS-BUILT CAMBER AND SWEEP. ALL COST OF SUCH WORK IS PAID UNDER ITEM 900.645, SPECIAL PROVISION (REHABILITATING COVERED BRIDGE

	project name: CLARENDON project number: BO 1443(55)	
E IER	FILE NAME: zI9j228supl3.dgn PROJECT LEADER: J.BICJA DESIGNED BY: J.RIPLEY SUPERSTRUCTURE DETAILS 7	PLOT DATE: 8/19/2022 DRAWN BY: P.DUSTIN CHECKED BY: J.BICJA SHEET 33 OF 52

TA OF SPAL DELAMINAT NCRETE (TY	LED ED P)	
	FORM FRONT AND SIDE FA AND FILL WITH CONTROL (FLOWABLE) FILL (INCID STONE FILL, TYPE II)	CE OF VOID LED DENSITY ENTAL TO
ļ	LEGEND	
	DENOTES LIMITS OF PARTIAL STRUCTURE	REMOVAL OF
	MEMBER TO BE REMOVED	
	PROJECT NAME: CLARENDON PROJECT NUMBER: BO 1443(55)	
'LE NER	FILE NAME: zI9j228subl.dgn PROJECT LEADER: J.BICJA DESIGNED BY: J.RIPLEY EXISTING ABUTMENT NO.I	PLOT DATE: 8/19/2022 DRAWN BY: P.DUSTIN CHECKED BY: J.BICJA SHEET 34 OF 52

LEGEN	<u>ND</u>
	DENOTES LIMITS OF PARTIAL REMOVAL OF STRUCTURE
	MEMBER TO BE REMOVED

	PROJECT NAME: CLARENDON	
	PROJECT NUMBER: BO 1443(55)	
LE	FILE NAME: zI9j228sub3.dgn PROJECT LEADER: J.BICJA	PLOT DATE: 8/19/2022 DRAWN BY: P.DUSTIN
NER	DESIGNED BY: J.RIPLEY EXISTING ABUTMENT NO. 2	CHECKED BY: J.BICJA SHEET 36 OF 52

DENOTES L	_IMITS C)F CLA	ASS II	SUBSTRU	CTURE
CONCRETE	REPAIR	(SEE	DETAIL	, SHEET	38)

- DENOTES LIMITS OF NEW CONCRETE

I. FOR TYPICAL BACKWALL REINFORCING SECTION, SEE SHEET 35.

	project name: CLARENDON project number: BO 1443(55)	
E IER	FILE NAME: zI9j228sub4.dgn PROJECT LEADER: J.BICJA DESIGNED BY: J.RIPLEY PROPOSED ABUTMENT NO. 2	PLOT DATE: 8/19/2022 DRAWN BY: P.DUSTIN CHECKED BY: J.BICJA SHEET 37 OF 52

CLASS II VERTICAL CONCRETE REPAIR DETAIL NOT TO SCALE

CLASS II VERTICAL CONCRETE REPAIR NOTES

- I. PREPARE SPALLED AREA BY REMOVAL OF ALL DETERIORATED CONCRETE TO A MINIMUM DEPTH OF ⅔ '' BEHIND THE INSIDE FACE OF THE FIRST MAT OF REINFORCING STEEL (IF PRESENT) AND TO SOUND CONCRETE BY SQUARE CUTTING REPAIR AREA (PAID UNDER ITEM 580.14). FEATHERED REMOVAL EDGES WILL NOT BE PERMITTED.
- 2. USE OF CHIPPING HAMMERS HEAVIER THAN NOMINAL 15 POUND CLASS IS NOT PERMITTED.
- 3. AFTER CONCRETE REMOVAL, THE REPAIR SURFACE AND EXISTING REINFORCING BARS SHALL BE THOROUGHLY CLEANED OF INJURIOUS RUST, CONCRETE, DIRT, GREASE, OR ANY OTHER BOND-INHIBITING MATERIALS. APPLY ONE COAT OF CONPROCO CORPORATION ECB (ELECTRO-CHEMICAL BARRIER), FERROSEAL BY ISOMAT, MAPEFER BY MAPEI OR APPROVED EQUAL TO ANY EXPOSED REINFORCING.
- 4. PATCH REPAIR AREA WITH CONCRETE CLASS AA (PAID UNDER ITEM 580.14). A HIGH RANGE WATER REDUCING ADMIXTURE CONFORMING TO THE REQUIREMENTS OF SUBSECTION 725.02 (h) SHALL BE USED FOR THE CONCRETE. DOSAGE SHALL BE AS RECOMMENDED BY THE MANUFACTURER TO PRODUCE A SLUMP OF 6-8 INCHES.
- 5. APPLY A PENETRATING, CORROSION-INHIBITING IMPREGNATION COATING, SIKA FERROGARD 903, CORTEC CORPORATION MCI-2020 V/0, GRACE CONSTRUCTION PRODUCTS POSTRITE OR APPROVED EQUAL FOR A DISTANCE OF 3' BEYOND THE EDGE OF THE CONCRETE REPAIR 7 DAYS AFTER APPLYING REPAIR MATERIAL.
- 6. ALL WORK AND MATERIALS REQUIRED FOR CONCRETE REPAIRS DESCRIBED IN NOTES I-5 ABOVE WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 580.14.

PROJECT NAME: CLARENDON	
PROJECT NUMBER: BO 1443(55))
FILE NAME: zI9j228sub5.dgn	PLOT DATE: 8/19/2022
PROJECT LEADER: J.BICJA	DRAWN BY: P.DUSTIN
DESIGNED BY: J.RIPLEY	CHECKED BY: J.BICJA
SUBSTRUCTURE DETAILS	SHEET 38 OF 52

PROJECT LEADER: J.BICJA DRAWN BY: P.DUSTIN DESIGNED BY: J.RIPLEY CHECKED BY: J.BICJA APPROACH RAIL LAYOUT SHEET 39 OF 52

	3'' (TYP) 6''×10'' ROUGH SAWN TIMBER RAILING (TYP) STEEL SPLICE PLATE 6''× ³ / ₈ ''×2'-6'' 4''×9''×12'' TIMBER BLOCK (TYP)	
INER	PROJECT NAME: CLARENDON PROJECT NUMBER: BO 1443(55) FILE NAME: z19j228grd.dgn PROJECT LEADER: J.BICJA DESIGNED BY: P.DUSTIN APPROACH RAIL DETAILS 2	PLOT DATE: 8/19/2022 DRAWN BY: T.GELINAS CHECKED BY: J.BICJA SHEET 41 OF 52

1 1/2 "

<u>| |/</u>2 ''

STATE OF VERMONT AGENCY OF TRANSPORTATION

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	В	С	D	E	F	G	Н	J	K	R	0	ITEM
	ABU	TME	INT NC). 1														
	5	5	13'- 7"	1EA501	STR													
$\triangle \blacktriangle$	11	5	9'- 3"	1EA502	STR													
	14	5	3'- 5"	1EA503	2	0'- 10"	2'- /"	1' 7"	1' 7 "	1' 7"		0'-0''						
	2 10	5	7 - 4 9'- 6"	1EA304	T1	0'- 6''	1-7	1 - 7 2'- 8"	1'- 7"	1 - 7 2'_ 8"		0'- 6''						
	10	5	3-0	ILA303		0-0	1-1	2-0	1-7	2-0		0-0						
	ABU	ТМЕ	NT NC). 2														
	7	5	13'- 8"	2EA501	STR													
\triangle	11	5	12'- 4"	2EA502	STR													
	15	5	3'- 10"	2EA503	2	0'- 10"	3'- 0"					0'- 0''						
	2	5	7'- 8"	2EA504	T1	0'- 6"	1'- 7"	1'- 9"	1'- 7"	1'- 9"		0'- 6"						
	12	5	9'- 4"	2EA505	11	0'- 6''	1'- /"	2'- /"	1'- /"	2'- /"		0'- 6''						
	DRA	INΔC		TF 2 INI	FT H													
	6	4	11'- 6"	1W401	STR													
	DRA	INAC	GE NO.	TE 2 OU	TLET		WALL											
	6	4	12'- 10"	1W402	STR													
	31	5	2'- 10"	1W501	27		0'- 10"	2'- 0"					0'- 10"					
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REINFORCING STEEL SCHEDULE EACH SIZE LENGTH MARK TYPE A B C D E F G H J K R O

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														4.				511000	
														5.	"J" DIM STAND	ENSION O ARD HOO	N 180 D KS ARE	EGREE H TO BE L	100KS TO JSED.
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														0.		ENSIONC	IN STIR	KUP5 10	BE SHOV
														7.	WHER	ESLOPE	DIFFER	SFROM4	15 DEGRE
														8.	▲ D	ENOTES	BARS TO	D BE CUI	IN FIELD
														9.	<u></u> ∦ D	ENOTES	ONE EXT	RA BAR	ADDED F
														10.	ΔD	ENOTES .	TWO EX	TRA BAR	
														11.	EIN	IBAR MAF	RK PREF	IX DENO	TES EPO
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															ASTM	STANE	DARD		
														F	REINFO	RCING	BAR	S	THE
														BAR SIZE DESIGNA-	WEIGHT POUNDS		AREA	ND SECTION	OR .3
															PER FOOT	INCHES	INCHES2	INCHES	BAR SHEE
														#3	0.376	0.375	0.11	1.178	
							 							#4	0.668	0.500	0.20	1.571	
														[#] 5	1.043	0.625	0.31	1.963	
														#6	1 502	0 750	0 44	2 3 5 6	
														#	0.04	0.075	0.00	0.740	
														<i>"</i> /	2.04	0.875	0.60	2.749	
														[#] 8	2.670	1.000	0.79	3.14	
														[#] 9	3.400	1.13	1.00	3.54	
														[#] 10	4.3	1.270	1.27	3.990	
														[#] 11	5.31	1.410	1.56	4.430	
														#4 4	7 65	1 60	2 25	5 2 2	
														14 #	60.1	1.03	2.23	5.52	
														<i>"</i> 18	13.60	2.26	4.00	7.09	
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~ NOTES ~

- NATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 EQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE M 31 (ASTM A 615-SI). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
- NLS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD ONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
- E ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- O OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
- REE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, BE USED.
- TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- OM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
- E CUT IN FIELD.
- BAR ADDED FOR TESTING PURPOSES.
- BARS ADDED FOR TESTING PURPOSES.
- ENOTES EPOXY COATED REINFORCING STEEL.

RESISTANCE LEVEL. CORROSION RESISTANCE LEVEL IS DENOTED WITH A .2 FOR LEVEL TWO SUFFIX OR .3 FOR LEVEL THREE SUFFIX, .1 FOR LEVEL ONE IS TO BE OMITTED. THE BAR MATERIAL TYPE AND BAR STEEL GRADE PROVIDED FOR EACH CORROSION LEVEL WILL BE RECORDED ON THE PLAN SET PI SHEET FOR AS-BUILT RECORD PLAN ARCHIVES.

PROJECT	NAME:	CLA	RENDON
PROJECT	NUMBER:	BO	1443(55)

FILE NAME: z19j228	Breinf.dgn
PROJECT LEADER:	J.BICJA
DESIGNED BY:	J.RIPLEY
REINFORCING STEEL	SCHEDUL

PLOT DA	TE:	8/19/2	2022
DRAWN B	Y:	P.DUS	TIN
CHECKED	J.BICJ	Д	
SHEET	43	OF	52

ROADWAY CROSS SECTIONS 3

SHEET 46 OF 52

	project name: CLARENDON	
	project number: BO 1443(55)	
	FILE NAME: zI9j228xsl.dgn	PLOT DATE: 8/19/2022
	PROJECT LEADER: J.BICJA	DRAWN BY: K.WELCH
K I	DESIGNED BY: K.WELCH	CHECKED BY: J.BICJA
	ROADWAY CROSS SECTIONS 5	SHEET 48 OF 52

	JAN. 5, 2018	ANNOTATION CORRECTIONS		
OTHER DETAILS REQUIRED: NONE				
	DETAILS APPROVED	FOR USE BY HIGHWAY SAFETY & DESIGN		
-				

SAFETY EDGE DETAILS

SAFETY EDGE WIDTH BASED ON WEARING COURSE THICKNESS AND A IV:1.6H SLOPE				
WEARING COURSE THICKNESS (INCHES)	NOMINAL SAFETY EDGE WIDTH (INCHES)			
I . 25	2.000			
I . 50	2.375			
I . 75	2.750			
2.00	3.125			
2.25	3.500			
2.50	4.000			

GENERAL NOTES:

- I. PLACEMENT OF THE WEARING COURSE SHALL INCLUDE THE SAFETY EDGE, UNLESS THE FOLLOWING APPLIES:
 - A. THE ADJACENT SLOPE IS STEEPER THAN THE SAFETY
 - EDGE. THE EDGE OF PAVEMENT BEING PLACED ABUTS BOUND Β.
 - MATERIAL. C. VEHICLES ARE RESTRICTED FROM LEAVING THE PAVED SURFACE (EXAMPLE: GUARDRAIL).
- 2. THE SAFETY EDGE SHALL BE FORMED IN SUCH A WAY THAT THE BITUMINOUS CONCRETE PAVEMENT IS EXTRUDED OR COMPRESSED TO FORM THE SLOPE. DEVICES THAT SIMPLY STRIKE-OFF THE MIX WITHOUT PROVIDING ANY COMPACTIVE EFFORT WILL NOT BE ALLOWED.
- 3. THE SAFETY EDGE SHALL NOT BE CONSIDERED PART OF THE PAVED SHOULDER.
- 4. THIS WORK SHALL BE INCIDENTAL TO THE RESPECTIVE BITUMINOUS CONCRETE PAVEMENT ITEM.

HIGHWAY SAFETY & DESIGN DETAIL

HSD - 400.01