ROUTE NO : VERMONT ROUTE 30, RURAL MINOR ARTERIAL

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL SURVEYED BY : H. MCGOWAN SURVEYED DATE : 7/13/2022 DATUM VERTICAL NAD83 (2011) HORIZONTAL NAVD88

TO RUPERT

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT

BRIDGE PROJECT

TOWN OF DORSET COUNTY OF BENNINGTON

- PROJECT LOCATION : IN THE TOWN OF DORSET ON VT ROUTE 30 OVER A CATTLE PASS, APPROXIMATELY 7.I MILES NORTH OF THE JUNCTION WITH VT ROUTE 7A.
- PROJECT DESCRIPTION : REMOVAL OF CATTLE PASS AND INSTALLATION OF A DRAINAGE STRUCTURE AND PIPE WITH RELATED APPROACH ROADWAY WORK.

LENGTH OF STRUCTURE: LENGTH OF ROADWAY: LENGTH OF PROJECT:

3.14 FEET 50 FEET 46.86 FEET



BRIDGE NO : 58A



CONCEPTUAL PLANS 26-MAR-2024

HIGHWAY DIVISION, C	HIEF ENGINEER
APPROVED	DATE
PROJECT MANAGER :	ROBERT KLINEFELTER
PROJECT NAME : Project number :	DORSET STP CULV (91)
SHEET I OF IO	SHEETS



STATE OF VERMONT AGENCY OF TRANSPORTATION

INDEX OF SHEETS

PLAN SHEETS

1	TITLE SHEET
2	PRELIMINARY INFORMATION SHEET
3	TYPICAL SECTIONS
4	SYMBOLOGY LEGEND
5	PLAN SHEET
6	VT-30 PROFILE SHEET
7 - 9	VT-30 CROSS SECTIONS 1-3
10	EXISTING CONDITIONS SHEET

DETAIL SHEETS

NUMBER	DESCRIPTION	DATE	
NUMBER	DESCRIPTION	DATE	

				т	RAFFIC DAT	Δ	AS B	UILT "REBAR" I	DETAIL
					LEVEL I	LEVEL II	LEVEL III		
YEAR	ADT	DHV	% D	% T	ADTT	20 year ESAL for flexible pavement from 2027 to 2047 : 3934000	TYPE:	TYPE:	TYPE:
2027	3700	440	69	9.4	404	40 year ESAL for flexible pavement from 2027 to 2067:8232000	GRADE:	GRADE:	GRADE:
2047	4059	480	69	13.6	643	Design Speed : 40 mph			

PRELIMINARY INFORMATION SHEET (CULVERT)

STANDARDS LIST

LRFR LOAD RATING FACTORS TRUCK LOADING LEVELS H-20 HL-93 3S2 6 AXLE 3A. STR. 4A. 20 36 36 66 30 3 TONNAGE INVENTORY POSTING OPERATING COMMENTS: TABLE TO BE COMPLETED BY CONTRACTOR'S DESIGNER CULVERT DESIGN CRITERIA 1. PROPOSED CULVERT IS A STEEL CORRUGATED (3'-0" X 3'-0" X 200'-0" 2. CULVERT ENDS ARE NOT SKEWED. 3. CULVERT WILL BE SET AT A SLOPE OF 12.00 IN. ON 48 FT. 4. CULVERT WILL NOT REQUIRE FISH PASSAGE ACCOMODATIONS 5. CULVERT CONSTRUCTION WILL NOT REQUIRE A TEMPORARY PIPE

I)

Version

)	LRFD)
FINAL HYDRA	AULIC REPORT	
		-
		-
		-
		-
		_
		-
		-
		-
		-
		-
		_
		-
		-
	 MAINTAIN ONE-WAY TRAFFIC ON THE EXISTING STRUCTURE. INSTALL AND MAINTAIN TRAFFIC SIGNALS. 	
	3. SIDEWALKS ARE NOT NECESSARY	
	1. DESIGN LIVE LOAD 2. FUTURE PAVEMENT dp: 3.0 INCH 2. CUL VERT OPENING 2.00 FT	-
		-
	4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS) Δ 5. PRESTRESSING STRAND f_{y} :	-
	6. PRESTRESSED CONCRETE STRENGTH f c: 7. PRESTRESSED CONCRETE RELEASE STRENGTH f c:	-
	8. HIGH PERFORMANCE CONCRETE, CLASS PCD f'c: 9. HIGH PERFORMANCE CONCRETE, CLASS PCS f'c: 3.5 KSI	-
	10. CONCRETE HIGH PERFORMANCE, CLASS SCC f'c: 11. CONCRETE, CLASS C f'c:	-
	12. REINFORCING STEEL $f_y:$ 60 KSI13. STRUCTURAL STEEL AASHTO M270 $f_y:$	-
	14. NOMINAL BEARING RESISTANCE OF SOIL g n:	_
	15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD) 0: 16. NOMINAL BEARING RESISTANCE OF ROCK q n:	-
	17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD) ¢:	-
A. STR. 5A. SEMI 34.5 38	18. PILE RESISTANCE FACTOR	-
	20. BASIC WND SPEED V3s: 21. MINIMUM GROUND SNOW LOAD pg:	-
	22. SEISMIC DATA PGA: Ss: S1: S1:	-
	23. 24	-
" PIPE).	25 26	-
	PROJECT NAME: DORSET	1
	PROJECT NUMBER: STP CULV(126)	
	FILE NAME:s23b031forms.dgnPLOT DATE:3/22/2024PROJECT LEADER:RNEFELTERDRAWN BY:CMOONEY	
	DESIGNED BY: C. MOONEY CHECKED BY: TBD	
	PRELIMINARY INFORMATION SHEET 1 SHEET 2 OF 10	



AR ZONE (FILL)
4
SEE "SAFETY EDGE DETAILS"
ON HSD-400.01 SHEET
VAR/C_{2} (TYP)
TES (TTF)

	2	72	BIIUMINOUS	CUNCRETE	PAVEMENI,		112	
	2	/2 ''	BITUMINOUS	CONCRETE	PAVEMENI,	TYPE	IIS	OVER
		1/2 ''	BITUMINOUS	CONCRETE	PAVEMENT,	TYPE	IVS	OVER
*	I	/2 ''	BITUMINOUS	CONCRETE	PAVEMENT,	τγρε	IVS	OVER

DESIGN LANE	4,809,000
PERFORMANCE GRADE ASPHALT BINDER	70-28
DESIGN NUMBER OF GYRATIONS	80

MATERIAL TOLERAN	CES
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- /4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- "
SAND BORROW	+/- "

PROJECT NAME:	RSET				
PROJECT NUMBER: ST	P CULV (I	26)			
FILE NAME: s23b03ltyp.dgn PL0				26-MA	R-2024
PROJECT LEADER: R. KLINEFELTER		DRAWN BY	:	C. MOG	DNEY
DESIGNED BY: C. MOC	DNEY	CHECKED	BY:	TBD	
TYPICAL SECTION I		SHEET	3	OF	10

GENERAL INFORMATION	COMMON TOPOGRAPHIC POINT SYMBOLS	UTILITY SYMBOLOGY
SYMBOLOGY LEGEND NOTE	POINT CODE DESCRIPTION	UNDERGROUND UTILITIES
SYMBOLOGY LEGEND NOTE THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS, THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.	POINT CODEDESCRIPTION**APLBOUND APPARENT LOCATION**BMBENCHMARK**BNDBOUND***CBCATCH BASIN**COMBCOMBINATION POLE****DITHRDROP INLET THROATED DNC****#ELELECTRIC POWER POLE****FPOLEFLAGPOLE****GSOGAS FILLER****GSOGAS SHUT OFF****GSOGAS SHUT OFF*****GVGATE VALVE*****HTREE HARDWOOD********CONTROL HORIZONTAL***********************************	UNDERGROUND UTILITIES UTILITY (GENERIC-UNKNOWN) TELEPHONE ELECTRIC CABLE (TV) ELECTRIC+CABLE ELECTRIC+CABLE ELECTRIC+CABLE+TELEPHONE CAS LINE WATER LINE SANITARY SEWER (SEPTIC) ABOVE GROUND UTILITIES (AERIAL) UTILITY (GENERIC-UNKNOWN) ELECTRIC CABLE (TV) UTILITY (GENERIC-UNKNOWN) ELECTRIC CABLE (TV) ELECTRIC CABLE (TV) ELECTRIC CABLE (TV) ELECTRIC + TELEPHONE ELECTRIC CABLE (TV) ELECTRIC+CABLE ELECTRIC+CABLE <td< td=""></td<>
R.O.W.ABBREVIATIONS (CODES) & SYMBOLSPOINTCODEDESCRIPTIONBFBARRIER FENCECHCHANNEL EASEMENTCONSTCONSTRUCTION EASEMENTCULCULVERT EASEMENTD&CDISCONNECT & CONNECTDITDITCH EASEMENT	→ TEL TELEPHONE POLE ● TIE TIE ● TSIGN SIGN W/DOUBLE POST ↓ VCTRL CONTROL VERTICAL ● WELL WELL ■ WSO WATER SHUT OFF THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION	A A A A TOP OF CUT SLOPE O O TOE OF FILL SLOPE & & & & & & & & & & & & & & & & & & &
DR DRAINAGE EASEMENT DRIVE DRIVEWAY EASEMENT EC EROSION CONTROL HWY HIGHWAY EASEMENT	WITH PROPOSED ANNOTATION. PROPOSED GEOMETRY CODES	CONVENTIONAL BOUNDARY SYMBOLOGY
I&MINSTALL & MAINTAIN EASEMENTLANDLANDSCAPE EASEMENTPDFPROJECT DEMARCATION FENCER&RESREMOVE & RESETR&REPREMOVE & REPLACER.T.&I.RIGHT, TITLE, AND INTERESTSRSLOPE RIGHTUEUTILITY EASEMENT(P)PERMANENT EASEMENT(T)TEMPORARY EASEMENTIBNDNSBOUND SETIRON PIN FOUNDIPNFIRON PIN FOUNDIPNSIRON PIN TO BE SET⊠CALCEXISTING ROW POINTOPROWPROPOSED ROW POINTLENGTHLENGTH CARRIED ON NEXT SHEET	CODEDESCRIPTIONPCPOINT OF CURVATUREPIPOINT OF INTERSECTIONCCCENTER OF CURVEPTPOINT OF TANGENCYPCCPOINT OF COMPOUND CURVEPRCPOINT OF REVERSE CURVEPOBPOINT OF BEGINNINGPOEPOINT OF ENDINGSTASTATION PREFIXAHAHEAD STATION SUFFIXBKBACK STATION SUFFIXDCURVE DEGREE OF (IOOFT)RCURVE RADIUS OFTCURVE LENGTH OFECURVE EXTERNAL DISTANCE	BOUNDARY LINES TOWN BOUNDARY LINE COUNTY BOUNDARY LINE STATE BOUNDARY LINE PROPOSED STATE R.O.W. (LIMITED ACCESS) PROPOSED STATE R.O.W. STATE ROW (LIMITED ACCESS) PROPOSED STATE R.O.W. STATE ROW COUNTY BOUNDARY LINE PROPOSED STATE R.O.W. STATE ROW COUNTY BOUNDARY PROPOSED STATE R.O.W. STATE ROW COUNTY ROW PERMANENT EASEMENT LINE (P) TEMPORARY EASEMENT LINE (T) SURVEY LINE PROPERTY LINE (P/L) SR SR SR SLOPE RIGHTS GF PROPERTY BOUNDARY 4F PROPERTY BOUNDARY HAZADDOLIS WASTE

	SEDIMENT ISOLATION	_
	SILT FENCE	
	SILI FENCE WOVEN WIRE Check dam	
	DISTURBED AREAS REQUIRING RE-VEGETATION	l
	EROSION MATTING	
SEE EPSC DETAIL	SHEETS FOR ADDITIONAL S	YMBOLOGY
	WETLAND BOUNDARY	
	RIPARIAN BUFFER ZONE	
	WETLAND BUFFER ZONE	
	SOIL TYPE BOUNDARY	
<i>T&E</i>	IHREATENED & ENDANGER	RED SPECIES
Δ <i>Γ</i>	ACRICIII THRAL LAND	
——————————————————————————————————————	FISH & WILDLIFE HARITAT	
— FLOOD PLAIN —	FLOOD PLAIN	
—√—0H₩—√—	ORDINARY HIGH WATER	(OHW)
	STORM WATER	
	USDA FOREST SERVICE LA	
	WILDLIFE HABITAT SUIT/C	JININ
ARCHEOLOGICAI	& HISTORIC	
ARCH	ARCHEOLOGICAL BOUNDAR	{
— HISTORIC DIST —	HISTORIC DISTRICT BOUND	ARY
	HISTORIC AREA	
(H)	HISTORIC STRUCTURE	
	ROAD EDGE PAVEME ROAD EDGE GRAVEL ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION FENCE (EXISTING) FENCE WOOD POST FENCE STEEL POST GARDEN ROAD GUARDRAIL RAILROAD TRACKS CULVERT (EXISTING STONE WALL WOOD LINE BRUSH LINE	- IN I -
	BODY OF WATER EI	DGE





PROJECT NAME:	DORSET		
PROJECT NUMBER:	STP CULV(127)		
FILE NAME: s23b03	1pro.dgn	PLOT DATE:	26-MAR-2024
PROJECT LEADER:	B. KLINEFELTER	DRAWN BY:	C. MOONEY
DESIGNED BY:	C. MOONEY	CHECKED BY:	====
VT-30 - PROFILE SHE	ET	SHEET 6	OF 10











PROJECT NUMBER:	STP CULV (126)				
FILE NAME: s23b0	31typ.dgn	PLOT DATE:	26-MA	R-2024	
PROJECT LEADER:	R. KLINEFELTER	DRAWN BY:	C. MO	ONEY	
DESIGNED BY:	C. MOONEY	CHECKED BY:			
VT-30 CROSS SECT	ION SHEET 3	SHEET 9	OF	10	

DORSET

PROJECT NAME:

