STATE OF VERMONT
AGENCY OF TRANSPORTATION

ITEM DETAIL AND DRAINAGE SHEET

	STATION	STATION	POS.	ASKEW	INLET/OUTLET TYPE		PIPE		ALLOWABLE OPTIONS				PIPE ELBOW	CB	PRCID	CONTROLLED DENSITY (FLOWABLE) FILL	CONC CLASS B	REINF STEEL	DI GRATE	CHAN ELEV	CRM	STRUCT. EXCAVATION		GRAN BKFILL STRUCT	EROS MATT	STONE FILL		MARKER POSTS		REMARKS
					INLET	OUTLET	D	L	PCCSP	CAAP	CPEP	RCP										EARTH	ROCK					LT	RT	
				NO. DEG.			IN	FT	TH	TH	SL	CLASS	NO. DEG.	EA		CY	CY	LBS	TYPE	EA	CY	CY	CY	CY	SY	CY	TYPE	EA	EA	
	EXISTING DRAINAGE																													
	CULVERT																													
1	9+60.1	9+87.3	LT-LT		PIPE	PIPE	12	36																						RETAIN AND PROTECT PIPE
2	9+85.1	10+89.9	LT-LT		PIPE	CB	15	58																						RETAIN PIPE AND STRUCTURE
3	10+70.9	12+57.5	LT-LT		PIPE	PIPE	24	140																						RETAIN AND PROTECT PIPE
4	9+92.7	14+82.6	LT-LT		PIPE	MH	42	450														333								ABANDON DOWNSTREAM PIPE AND STRUCTURE IN PLACE PER SPECIAL PROVISION (DECOMMISSION PIPE)
5	14+82.6	16+00.0	LT-LT		MH	PIPE	42	116																						RETAIN PIPE AND STRUCTURE
6	11+26.2	11+45.5	RT-RT		MH	PIPE	15	27																						RETAIN PIPE AND PROTECT AND ADJUST STRUCTURE
7	14+22.6	14+50.6	LT-LT		MH	PIPE	12	125																						REMOVE PIPE AND CONNECT TO NEW 10' DIAMETER MH
8	14+50.6	14+43.2	RT-RT		MH	PIPE	24	60																						RETAIN PIPE AND STRUCTURE
9	10+45.5	9+50.0	RT-RT		MH	PIPE	42	269																						REMOVE UPSTREAM 20' OF EXISTING PIPE
10	14+07.1	UNK	LT-LT		DI	PIPE	12	-																						ABANDON EXISTING 12" PIPE, BULKHEAD MANHOLE, RETAIN DI SEE (11)
	PROPOSED DRAINAGE																													
	CULVERT																													
1	14+82.6	14+22.6	LT-LT		MH	MH	72	55	~~.109~~	.105												548		83				2		NEW PIPE FROM NEW MH @ 14+22.6 TO ~~EXISTING~~ MH @ 14+82.6
2	14+22.6	13+14.3	LT-LT		MH	MH	72	98	~~.109~~	.105												827		129				1		NEW PIPE AND NEW MH @ 14+22.6 SEE PIPE INSTALLATION NOTES FOR ADDITIONAL
3	13+14.3	12+06.1	LT-LT		MH	MH	72	98	~~.109~~	.105												857		141				-		NEW PIPE AND NEW MH @ 13+14.3
4	12+06.1	11+30.4	LT-LT		MH	MH	72	66	~~.109~~	.105												623		310				1		NEW PIPE AND NEW MH @ 12+06.1
5	11+30.4	10+85.0	LT-LT		MH	MH	72	35	~~.109~~	.105												479		70	129			1		NEW PIPE AND NEW MH @ 11+30.4
6	10+85.0	10+50.7	LT-LT		MH	MH	72	24	~~.109~~	.105												472		78	34			1		NEW PIPE AND NEW MH @ 10+85.0
7	10+50.7	10+26.4	LT-LT		MH	MH	72	14	~~.109~~	.105												279		44	27			1		NEW PIPE AND NEW MH @ 10+50.7
8	10+26.4	10+14.9	LT-LT		MH	HW	72	7	~~0.109~~	0.105							66	14874				322		63		67	II			NEW PIPE AND NEW MH @ 10+26.4, CONSTRUCT NEW CONCRETE HEADWALL, WINGWALLS, AND FOOTING @ 10+14.9
9	10+24.5	10+12.1	RT-RT		MH	PIPE	42	10	~~.109~~	.109			45/45									TRENCH EXCAVATION								CONNECT EXISTING PIPE TO NEW MH USING PIPE ELBOWS @ 10+50.7
10	14+22.6	14+50.6	RT-RT		DI	MH	24	86	~~.064~~	~~.06~~	SL	~~III~~										75						1		CONNECT NEW PIPE TO NEW MH @ 14+22.6
11	14+07.1	14+22.6	LT-LT		DI	MH	12	29	~~.064~~	~~.06~~	SL	~~III~~				2						21						1		CONNECT NEW PIPE TO NEW MH @ 14+22.6 SEE PIPE INSTALLATION NOTES FOR ADDITIONAL REQUIREMENTS
	TOTALS						72	397	PCCSP 0.109 (3"x1")/CAAP 0.105 (3"x1")							2	66	14874				**STRUCT. EX.**	**4740**							
							42	10	PCCSP 0.109 (2-2/3"-1/2")													**TRENCH EX.**	**96**							
							24	86	PCCSP 0.064 (2-2/3"-1/2")/CAAP 0.06 (2-2/3"-1/2")/CPEP (SL)/RCP CLASS III															**918**	**190**	**67**			**9**		
							12	29	PCCSP 0.064 (2-2/3"-1/2")/CAAP 0.06 (2-2/3"-1/2")/CPEP (SL)/RCP CLASS III																					

GUARDRAIL

BEGIN STATION	END STATION	POSITION LEFT FT	POSITION RIGHT FT	END TREATMENT LEFT FT	END TREATMENT RIGHT FT
REMOVE AND ~~RESET~~ GUARDRAIL					
	REPLACE				
TOTALS					

TREATED TIMBER CURB

BEGIN STATION	END STATION	POSITION LEFT FT	POSITION RIGHT FT	REMARKS
SEE ROADWAY LAYOUT SHEET FOR LOCATION				

VT ROUTE 11

32+97.7	34+16.7	122		
TOTALS		122		

UNDERDRAIN

BEGIN STATION	END STATION	POSITION	TYPE	DIA IN.	LENGTH FT	TRENCH EARTH CY.	TRENCH ROCK CY.	GRAN BKFILL CF	FB EA	MRK. POST EA
TOTALS										

*NOTE: IT IS ANTICIPATED THAT 75% OF IN-SITU MATERIAL CAN BE REUSED; THEREFORE THE GRANULAR BACKFILL FOR STRUCTURES IS 25% OF THE CALCULATED BACKFILL

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: PERU
PROJECT NUMBER: STP SCRP(4)

FILE NAME: z07b1061temdet.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: M. BRADLEY
ITEM DETAIL & DRAINAGE SHEET

PLOT DATE: 12/31/2014
DRAWN BY: M. BRADLEY
CHECKED BY: E. ATKINS