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State of Vermont Contract Administration Barre City Place 219 North Main Street, Suite 105 Barre VT 05641 http://vtrans.vermont.gov Agency of Transportation Finance & Administration [phone] 802-622-1285 [ttd] 800-253-0191

November 5, 2024

C03202 Waterbury BO 1446(40)

#### **ADDENDUM #1**

**Bidders:** 

Changes have been made to the documents located on the Bid Opportunity website as noted below:

#### **REVISED:**

- Plan Sheets 2, 11,12 and 13.
- Project Special Provisions Pages 1, 4, and 12.
- Schedule of items in the invitation for bids.

#### **DELETED:**

None

#### **ADDED:**

- Plan Sheet 13A.
- Project Special Provisions Page 13.
- Reference Document: Record Drawing Water Main Stowe Street Thatcher Brook Crossing

#### **VTrans Mission and Vision**

Through excellent customer service, provide for the safe and efficient movement of people and goods. A safe, reliable, and multimodal transportation system that grows the economy, is affordable to use and operate, and serves vulnerable populations.



Waterbury BO 1446(40) PIN Number(s): 93j040 Advertised October 16, 2024 Revised November 5, 2024

Special Provisions Part I – Notice to Bidders

Page 1

#### **SPECIAL PROVISIONS**

- 1. <u>NOTICE TO BIDDERS CONTRACT COMPLETION DATE</u>. This Contract shall be completed on or before October 24, 2025.
- 2. <u>NOTICE TO BIDDERS INTERIM COMPLETION DATE</u>. The Contractor shall complete the work listed below on or before the end of the bridge closure period described in Notice to Bidder #4.
  - (a) Excavation and demolition of the existing structure; install new rigid frame and wingwalls; install stone fill; backfill the new structure; installation of the new sewer main over the new structure; installation of precast moment slabs; complete full depth reconstruction of the roadway in Stowe Street and Lincoln Street, including the installation of Subbase of Dense Graded Crushed Stone and the base level of pavement within the project limits; installation of temporary barrier for traffic protection.
  - (b) If this interim completion date is not met, liquidated damages in the amount of 80% of the applicable rate specified in <u>Table 108.12A</u> will be assessed in accordance with <u>Subsection 108.12(b)</u>.
- 3. <u>NOTICE TO BIDDERS PROHIBITION OF RUSSIAN GOODS</u>. The Contractor is hereby notified that, pursuant to Vermont Executive Order No. 02-22, dated March 3rd, 2022, the purchase of Russian-sourced goods and goods produced by Russian entities (defined as institutions or companies that are headquartered in Russia or have their principal place of business in Russia) is prohibited. The awarded Contractor must fill out and sign the Executive Order 02-22 Vendor Certification as part of Contract awarding process.
- 4. NOTICE TO BIDDERS WORK REQUIREMENTS. The Contractor is hereby notified that a 60 day bridge/roadway closure period for the section of Stowe Street between Lincoln Street and Vermont Route 100 will be allowed between the dates of Monday, June 16, 2025 and Friday, August 29, 2025. Coordination with the Town of Waterbury will be required as the Town will be responsible for signing a detour for **Lincoln Stowe** Street. The signed detour shall be in place prior to the closure of Stowe Street. Any barricades or signage required to close the roadway will be the responsibility of the Contractor.

- 12. <u>NOTICE TO BIDDERS INFORMATIONAL DOCUMENTS</u>. The Contractor is hereby notified that the following informational documents for this Contract are available on iCXWeb and the VTrans Bid Opportunities website. These documents are being provided during the bid solicitation period for informational purposes only.
  - (a) Traffic Management Plan (TMP) Checklist
  - (b) Geotechnical Report
  - (c) Record Drawing Water Main Stowe Street Thatcher Brook Crossing
- 13. NOTICE TO BIDDERS SURFACE WATER WITHDRAWAL. The Contractor is hereby notified that the Vermont state law, Act 135 of 2022, requires any person withdrawing surface water (as defined in 10 V.S.A. § 1002 (20)) to register with and report the water withdrawal and usage to the Vermont Department of Environmental Conservation beginning January 1, 2023. Guidance can be found here: <a href="https://dec.vermont.gov/watershed/rivers/streamflow-protection/act-135-surface-water-withdrawal-registration-and-reporting">https://dec.vermont.gov/watershed/rivers/streamflow-protection/act-135-surface-water-withdrawal-registration-and-reporting</a>
- 14. <u>NOTICE TO BIDDERS ENVIRONMENTAL COMMITMENTS.</u>
  - (a) <u>Threatened, Endangered, and Rare Species</u>.
    - (1) The Contractor shall ensure all personnel working on the project site are made aware of the potential presence and protected status of the northern long-eared bat. No suitable bat habitat is present within the project limits and no Time-of-Year (TOY) restrictions are required.

The Contractor is hereby made aware of the potential for TOY restrictions related to proposed Waste, Borrow and Staging areas. Cutting trees ≥3 inches in diameter outside of the contract project limits shall require review under Section 105.26 Opening Off-Site Activity Areas.

#### (b) Invasive Material.

(1) If invasive species are delineated on the Plans or found in the project area and confirmed by the Engineer, the invasive species, and any soil excavated from areas that contained the invasive species, will be termed invasive material.

- 23. <u>NOTICE TO BIDDERS SUBSECTION 543.11</u>. <u>Subsection 543.11</u> is hereby modified by adding the phrase "or at the Contract unit price for each, as applicable." to the end of the first sentence.
- 25. <u>NOTICE TO BIDDERS SUBSECTION 646.04(d)</u>. <u>Subsection 646.04(d)</u> is hereby modified by deleting the first sentence of the first paragraph in its entirety and replacing it with the following:

The Contractor shall be responsible for the layout for the permanent traffic markings as specified in <u>Subsection 105.11(b)</u>.

26. <u>NOTICE TO BIDDERS – SUBSECTION 646.07(a)(2)a.</u> <u>Subsection 646.07(a)(2)a.</u> is hereby modified by deleting the first sentence of the first paragraph in its entirety and replacing it with the following:

Initial dry retroreflectivity minimums for surface applied epoxy shall be 250 millicandelas per square meter per lux ( $mcd/m^2/lx$ ) for yellow markings and 350  $mcd/m^2/lx$  for white markings.

- 27. <u>NOTICE TO BIDDERS SUBSECTION 728.02</u>. When material is supplied in accordance with <u>Subsection 728.02(b)</u> or <u>Subsection 728.02(e)</u>, material in accordance with *AASHTO M 180-18* may be substituted in place of material meeting *AASHTO M 180-23*.
- 28. <u>NOTICE TO BIDDERS TEMPORARY SEWER NOTIFICATION</u>. The contractor shall notify the Agency of Natural Resources, Wastewater Management Program, direct discharge analyst assigned to the EFUD POTW (Sherri Kasten <u>Sherri.Kasten@vermont.gov</u>), at least 10 working days prior to the planned date for implementing the sewer bypass.
- 29. <u>NOTICE TO BIDDERS ADDITIONAL BYPASS PUMPING DESIGN INFORMATION.</u>
  Additional existing sewer data for bypass design:
  - (a) Peak flow upstream of sewer man hole (SMH) #199 = 12 Gallons / minute
  - (b) There are 3 services between SMH199 and SMH200
  - (c) The distance between SMH5 and SMH200 is approximately 233 feet.

30. <u>NOTICE TO BIDDERS – SUBSECTION 540.13</u>. <u>Subsection 540.13</u> is hereby modified by being deleted in its entirety and replaced with the following:

<u>540.13 METHOD OF MEASUREMENT</u>. When specified to be measured on a lump sum basis, the quantity of Precast Concrete Structure of the type and size specified to be measured for payment will be on a lump sum basis in the complete and accepted work. The item will include all of the precast concrete structure components for each location specified in the Contract.

When specified to be measured on an each basis, the quantity of Precast Concrete Structure of the type and size specified to be measured for payment will be the number of each installed in the complete and accepted work. The item will include all of the precast concrete structure components for each location specified in the Contract.

The quantity of Precast Concrete Deck Panels to be measured for payment will be the number of square feet of precast concrete deck panels used in the complete and accepted work.

- 31. <u>NOTICE TO BIDDERS SUBSECTION 540.14</u>. <u>Subsection 540.14</u> is hereby modified by adding the phrase "or at the Contract unit price for each, as applicable." to the end of the first sentence.
- 32. <u>NOTICE TO BIDDERS SUBSECTION 540.14</u>. <u>Subsection 540.14</u> is hereby modified by adding the following pay item to the list of pay items in numerical order:

540.1500 Precast Concrete Structure......Each

## PRELIMINARY INFORMATION SHEET (CULVERT)

04-07-2020

10-14-2005

02-17-2022

02-17-2022

02-17-2022

08-13-2007

01-03-2000

06-01-1994

03-10-1995

06-25-2024

06-25-2024

06-25-2024

04-07-2020

04-07-2020

04-07-2020

08-08-1995

06-25-2024

02-01-1999

10-12-2000

08-18-1995

03-10-2017

03-10-2017

10-02-2018

06-25-2024

02-15-2023

02-17-2022

02-17-2022

02-15-2023

02-15-2023

04-25-2016

04-07-2020

08-06-2012

08-06-2012

08-06-2012

02-17-2022

08-06-2012

08-06-2012

01-02-2013

10-26-2015

LRFD

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T-56

STANDARD SIGN PLACEMENT

#### **DETAIL SHEETS**

TEMPORARY TRAFFIC SIGN SUMMARY SHEETS

TRAFFIC CONTROL NOTES

R.O.W. DETAIL SHEET

R.O.W. LAYOUT SHEET

HSD 400.01 SAFETY EDGE DETAIL

66

1/5/2018

ADDENDUM	REVISION	DATE	DESCRIPTION	BY	
1	1	11-05-2024	ADD QUANTITY SUMMARY SHEET 4 AS SHEET 13A	T. KNIGHT	

BITUMINOUS CONCRETE PAVEMENT DESIGN CRITERIA	MIXTURE	
DESIGN LANE/DESIGN LIFE ESALs	248,160	
DESIGN NUMBER OF GYRATIONS (ALL OTHER MIX TYPES)	65	
PERFORMANCE GRADED ASPHALT BINDER - PAVER PLACED	58E-28	
PERFORMANCE GRADED ASPHALT BINDER - NON - PAVER PLACED	58S-28	

	TRAFFIC DATA								ETAIL
		·		•			LEVEL I	LEVEL II	LEVEL III
YEAR	ADT	DHV	% D	% T	ADTT	20 year ESAL for flexible pavement from 2024 to 2044 : 376000	TYPE:	TYPE:	TYPE:
2024	2900	410	66	3	100	40 year ESAL for flexible pavement from 2024 to 2064 : 868000	GRADE:	GRADE:	GRADE:
2044	3200	450	66	4.8	180	Design Speed: 25 mph			

#### FINAL HYDRAULIC REPORT

DRAINAGE AREA: 18.3 sq. mi.  CHARACTER OF TERRAIN: Hilly to Mountainous Rural Watershed  STREAM CHARACTERISTICS: Straight to Sinuous Channel with Narrow Floodplains  NATURE OF STREAMBED: Boulders and Cobles with Exposed Bedrock  PEAK FLOW DATA - ANNUAL EXCEEDANCE PROBABILITY (AEP)  43% = 840 cfs
STREAM CHARACTERISTICS: Straight to Sinuous Channel with Narrow Floodplains NATURE OF STREAMBED: Boulders and Cobles with Exposed Bedrock  PEAK FLOW DATA - ANNUAL EXCEEDANCE PROBABILITY (AEP)  43% = 840 cfs
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PEAK FLOW DATA - ANNUAL EXCEEDANCE PROBABILITY (AEP)  43% = 840 cfs
PEAK FLOW DATA - ANNUAL EXCEEDANCE PROBABILITY (AEP)  43% = 840 cfs
43% =   840 cfs   2% =   2,400 cfs   2,900 cfs   4% =   2,000 cfs   1% =   2,900 cfs   4,200 cfs   2,000 cfs   4,200 cfs   2,000 cfs   4,200 cfs   4
10% = 1,500 cfs
4% = 2,000 cfs
DATE OF FLOOD OF RECORD Unknown  ESTIMATED DISCHARGE: Unknown  WATER SURFACE ELEV.: Unknown  NATURAL STREAM VELOCITY: @ 2% AEP = 6.7 fps upstream and 11.3 fps downstream  ICE CONDITIONS: Moderate  DEBRIS: Moderate  DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? Unknown  IS ORDINARY RISE RAPID? Unknown  IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? No
ESTIMATED DISCHARGE: Unknown WATER SURFACE ELEV.: Unknown NATURAL STREAM VELOCITY: @ 2% AEP = 6.7 fps upstream and 11.3 fps downstream ICE CONDITIONS: Moderate DEBRIS: Moderate DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? Unknown IS ORDINARY RISE RAPID? Unknown IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? No
ESTIMATED DISCHARGE: Unknown  WATER SURFACE ELEV.: Unknown  NATURAL STREAM VELOCITY: @ 2% AEP = 6.7 fps upstream and 11.3 fps downstream  ICE CONDITIONS: Moderate  DEBRIS: Moderate  DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? Unknown  IS ORDINARY RISE RAPID? Unknown  IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? No  2% AEP = 498.3 ft. 1% AEP = 499.3 ft.  18 THE ROADWAY OVERTOPPED BELOURING INTERPRETATION: N/A  DISCHARGE OVER ROAD @ 1% AEP:
NATURAL STREAM VELOCITY: @ 2% AEF = 6.7 fps upstream and 11.3 fps downstream ICE CONDITIONS: Moderate DEBRIS: Moderate DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? Unknown IS ORDINARY RISE RAPID? Unknown IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? No
NATURAL STREAM VELOCITY: @ 2% AEF = 6.7 fps upstream and 11.3 fps downstream ICE CONDITIONS:
ICE CONDITIONS: Moderate  DEBRIS: Moderate  DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? Unknown  IS ORDINARY RISE RAPID? Unknown  IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? No
DEBRIS: Moderate  DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? Unknown IS ORDINARY RISE RAPID? Unknown IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? No
IS ORDINARY RISE RAPID? Unknown  IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? No  DISCHARGE OVER ROAD @ 1% AEP:
IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? No
IEVES DESCRIBE: PRINCE LOWCHOPD ELEVATION:
IF 1E3, DE3CKIDE.
FREEBOARD: @ 4% A
WATERSHED STORAGE: 0.4% HEADWATERS: SCOUR: Abutments are to be founded by the state of the state
IMMEDIATELY ABOVE SITE: REQUIRED CHANNEL PROTECTION:

#### EXISTING STRUCTURE INFORMATION

STRUCTURE TYPE:	Single Span T-Bea	m	
YEAR BUILT:	1928		
CLEAR SPAN(NORMA	L TO STREAM):	37 ft. +/-	
VERTICAL CLEARANCE	CE ABOVE STREAM	IBED:	16.8 ft.
WATERWAY OF FULL	OPENING:	578.0 sq. ft.	
DISPOSITION OF STRU	JCTURE:	Full Replacem	ent
TYPE OF MATERIAL U	NDER SUBSTRUCT	URE:	See Borings

#### WATER SURFACE ELEVATIONS AT:

43% AEP =	494.6 ft.	VELOCITY=	10.5 fps
10% AEP =	496.5 ft.	"	12.5 fps
4% AEP =	497.6 ft.	"	13.7 fps
2% AEP =	498.5 ft.	"	14.5 fps
1% AEP =	499.5 ft.	"	15.5 fps
	•		

#### LONG TERM STREAMBED CHANGES: Unknown

IS THE ROADWAY OV	ERTOPPED BELOW 1% AEF	o:	No
FREQUENCY:	N/A	_	
RELIEF ELEVATION:	N/A		
DISCHARGE OVER RO	OAD @ 1% AEP: N/A		

#### UPSTREAM STRUCTURE

TOWN: Waterbu	ry	DISTANCE:	4000 ft.
HIGHWAY#:	TH-21	STRUCTURE #:	16
CLEAR SPAN:	62. ft.	CLEAR HEIGHT:	Unknown
YEAR BUILT:	1959	FULL WATERWAY:	Unknown
STRUCTURE TYPE:	Rolled Beam		

### DOWNSTREAM STRUCTURE

TOWN:	TOWN: Waterbury		DISTANCE:	1200 ft.
HIGHWAY#	:	189	STRUCTURE #:	46A
CLEAR SPA	N:	434. ft.	CLEAR HEIGHT:	Unknown
YEAR BUILT	:	2016	FULL WATERWAY:	Unknown
STRUCTUR	E TYPE:	Three Span Welded Girder		

#### LRFR LOAD RATING FACTORS

LOADING LEVELS		TRUCK					
LOADING LEVELS	H-20	HL-93	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEMI
TONNA GE	20	36	36	66	30	34.5	38
INVENTORY							
POSTING							
OPERATING							
COMMENTS:	TABLE TO	TABLE TO BE COMPLETED BY CONTRACTOR'S DESIGNER					

#### PRECAST CONCRETE STRUCTURE DESIGN CRITERIA 1. PROPOSED STRUCTURE IS A RIGID FRAME TYPE STRUCTURE.

- 2. SEE PRECAST DETAILS SHEET FOR PROPOSED SKEWS.
- 3. PROPOSED STRUCTURE WILL BE SET AT A SLOPE OF 0.00 IN. ON 0 FT.
- 4. PROPOSED STRUCTURE WILL NOT REQUIRE FISH PASSAGE ACCOMODATIONS
- 5. CONSTRUCTION WILL REQUIRE STREAM DIVERSION

### PROPOSED STRUCTURE

CLEAR SPAN(NORMAL TO STREAM):	50.0 ft.
VERTICAL CLEARANCE ABOVE STREAMBED:	See Plans and Specifications
WATERWAY OF FULL OPENING:	See Plans and Specifications

#### WATER SURFACE ELEVATIONS AT

43% AEP = 494.6 ft.	VELOCITY=	10.5 fps
10% AEP = 496.3 ft.	"	12.5 fps
4% AEP = 497.4 ft.	"	13.7 fps
2% AEP = 498.3 ft.	· ·	14.5 fps
1% AEP = 499.3 ft.	···	15.3 fps

IS THE ROADWAY OVERTOPPED BELOW 1% AEP:		No
FREQUENCY:	N/A	
RELIEF ELEVATION:	N/A	

BRIDGE LOW CHORD	ELEVATION:	See plans and specifications
FREEBOARD:	@ 4% AEP = 4.1 ft.*	•

ı	SCOUR:	Abutments are to be founded on non-erodible bedrock

#### REQUIRED CHANNEL PROTECTION: Stone Fill Type IV\*\*

#### PERMIT INFORMATION

_	AVERAGE DAILY FLOW:	_	_	DEPTH OR ELEVATION:
-	ORDINARY LOW WATER:	-		-
-	ORDINARY HIGH WATER:	-	_	-

### TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE:	
CLEAR SPAN (NORMAL TO STREAM):	
VERTICAL CLEARANCE ABOVE STREAMBED:	
WATERWAY AREA OF FULL OPENING:	

#### ADDITIONAL INFORMATION

\*Freeboard was determined using a low chord elevation of 501.5 ft \*\*E-stone Type IV should be used for all in channel work.

### TRAFFIC MAINTENANCE NOTES

#### 1. MAINTAIN TRAFFIC ON AN OFF SITE DETOUR.

- 2. TRAFFIC SIGNALS ARE NOT NECESSARY.
- 3. SIDEWALKS ARE NOT NECESSARY

DESIGN VALUES		
1. DESIGN LIVE LOAD		HL-93
2. FUTURE PAVEMENT	<b>d</b> p:	0.0 INCH
3. CULVERT OPENING	D:	50.00 FT
	_	
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ: _	
5. PRESTRESSING STRAND	<b>f</b> y:	
6. PRESTRESSED CONCRETE STRENGTH	<b>f</b> 'c:	
7. PRESTRESSED CONCRETE RELEASE STRENGTH	<b>f</b> 'ci:_	
8. HIGH PERFORMANCE CONCRETE, CLASS PCD	<b>f</b> 'c:	
9. HIGH PERFORMANCE CONCRETE, CLASS PCS	<b>f</b> 'c:	3.5 KSI
10. CONCRETE HIGH PERFORMANCE, CLASS SCC	<b>f</b> 'c:	
11. CONCRETE, CLASS B	<b>f</b> 'c:	3.5 KSI
12. REINFORCING STEEL	<b>f</b> y:	60 KSI
13. STRUCTURAL STEEL AASHTO M270	<b>f</b> y:	
14. NOMINAL BEARING RESISTANCE OF SOIL	<b>q</b> n:_	
/=		

ı	17.	NOMINAL BEARING RESISTANCE OF SOIL
١	15.	SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)
ı	16	NOMINAL BEARING RESISTANCE OF ROCK

10. NOWINAL BEARING RESISTANCE OF ROCK	<b>q</b> n:	
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LE		0.
18. PILE RESISTANCE FACTOR	φ:	_

				т	
19.	LATERAL PILE DEFLECTION			$\Delta$ :	
20.	BITCH WIND OF EED			<b>V</b> 3s:	
21.	MINIMUM GROUND SNOW LOAD			<b>p</b> g:	
22.	SEISMIC DATA	PGA:		<b>S</b> s:	
				<b>S</b> 1:	
23.					
O 4			 	·····	

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PROJECT NAME:	WATERBURY
PROJECT NUMBER:	BO 1446(40)

FILE NAME: z93j040	pi.dgn	PLOT DATE	:	11/4/20	)24
PROJECT LEADER:	T. KNIGHT	DRAWN BY		P. ARM	1AT
DESIGNED BY:	D. YOULEN	CHECKED E	3Y:	T. KNI	3H.
PRELIMINARY INFOR	MATION SHEET	SHEET	2	OF	6



# **QUANTITY SHEET 1**

	MARY OF ESTIMATED QUA		1001	1	TOTALS		DESCRIPTIONS			1	DETAILED SUMMARY OF C
OPTION	1011 - 1041 - LANDSCAPING	1051 - EROSION U CONTROL	1081 - UTILITIES - BID ITEMS 1211 - BRII NO. 1	DGE 1999 - FULL C.E. ITEMS	GRAND TOTAL FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES UNIT	ІТ
			1		1	DL	LIQUIDATED DAMAGES, INTERIM COMPLETION DATE (N.A.B.I.)	199.8121			
	1				1	LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.1000			EARTHWORKS SUMMARY
	1425				1425	CY	COMMON EXCAVATION	203.1500		1425 CY	FILL AVAILABLE COMMON EXCAVATION
	270				270	CY	SOLID ROCK EXCAVATION	203.1600		550 CY 1200 CY	UNCLASSIFIED CHANNEL EXCA COFFERDAM EXCAVATION, EAI
			550		550	CY	UNCLASSIFIED CHANNEL EXCAVATION	203.2700		180 CY	TRENCH EXCAVATION OF EAR
	260				260	CY	TRENCH EXCAVATION OF EARTH	204.2000		3355 CY	TOTAL FILL AVAILABLE
	1				1	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.2200		205 CY	FILL REQUIRED FACTORED FILL
	'		1415		1415	CY	GRANULAR BACKFILL FOR STRUCTURES	204.3000		205 CY	TOTAL FILL REQUIRED
			1200		1200	CY	COFFERDAM EXCAVATION, EARTH	208.3000		3150 CY	TOTAL WASTE
										3150 C1	TOTAL WASTE
			120		120	CY	COFFERDAM EXCAVATION, ROCK	208.3500			
			1		1	LS	COFFERDAM (FRAME LEG 1)	208.4000			
			1		1	LS	COFFERDAM (FRAME LEG 2)	208.4000			
	500				500	SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.1000			
	1700				1700	CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.3500			
	40				40	TON	AGGREGATE SHOULDERS, RAP	402.1300			
	20				20	CWT	TACK COAT, EMULSIFIED ASPHALT	404.1100			
	320				320	TON	BITUMINOUS CONCRETE PAVEMENT, TYPE IIS, QA TIER III	406.0230			
	245				245	TON	BITUMINOUS CONCRETE PAVEMENT, TYPE IIIS, QA TIER III	406.0330			
	15				15	TON	BITUMINOUS CONCRETE PAVEMENT, TYPE IVS, QA TIER III	406.0430			
	50				50	SY	BITUMINOUS CONCRETE PAVEMENT, NON-PAVER PLACED, TYPE IVS	406.3400			
	1				1	DL	PAY ADJUSTMENT, BCP, MIXTURE PROPERTIES (N.A.B.I.)	406.9100			
	1				1	DL	PAY ADJUSTMENT, BCP, MAT DENSITY (N.A.B.I.)	406.9200			
			1000		1000	LB	REINFORCING STEEL, LEVEL I	507.1100			
	500		1010		1510	LB	REINFORCING STEEL, LEVEL II	507.1200			
			250		250	LF	DRILLING AND GROUTING DOWELS	507.1600			
			25		25	GAL	WATER REPELLENT, SILANE	514.1000			
			530		530	SY	MEMBRANE WATERPROOFING, TORCH APPLIED SHEET	519.2000			
			124		124	LF	BRIDGE RAILING, GALVANIZED STEEL TUBING/CONCRETE COMBINATION	525.5000			
			1		1	EACH	REMOVAL OF STRUCTURE (REMOVAL OF BRIDGE NO.36)(1110 SF - EST)	529.1500			
			2		2	EACH		529.1500			
			1		1	LS	PRECAST CONCRETE STRUCTURE (FRAME WITH WINGWALLS)	540.1000			
			250		250	CY	CONCRETE, CLASS C	541.2300			
			<b>\$</b>				CONTRACTOR-FABRICATED PRECAST CONCRETE STRUCTURE (MOMENT SLAB 1)		) /1\		
							CONTRACTOR-FABRICATED PRECAST CONCRETE STRUCTURE (MOMENT SLAB 2)				
	105				105	LF	18 INCH CPEP(SL)	601.2615			
	2				2	EACH	18 INCH CPEPES	601.7015			
	1				1	EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE	604.2000			
	2				2	EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE ((DEEP SU	IN 604.2000			N.A.B.I. = NOT A BID ITEM
			5		5	EACH	SANITARY SEWER MANHOLE	604.2200			N.A.D.I NOT A BID ITEM
	1				1	EACH	CHANGING ELEVATION OF DIS, CATCH BASINS, OR MANHOLES	604.4000			

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	ADDENDUM	REVISION	DATE	DESCRIPTION	BY
	1	1	11-05-2024	LIST MOMENT SLAB AS AN OPTION	T. KNIGHT



PROJECT NAME:	WATERBURY			
PROJECT NUMBER:	BO 1446(40)			
FILE NAME: z93j040d	et_stowe.dgn	PLOT DATE:	11/5/2024	•

DRAWN BY: P. ARMATA
CHECKED BY: T. KNIGHT
SHEET 11 OF 68

# **QUANTITY SHEET 2**

		STIMATED QUAN		1021	<u> </u>	1	101	TALS	DESCRIPTIONS			DETAIL	ED SUMMARY OF QUANTITIES
OPTION	1011 - ROADWAY	1041 - LANDSCAPING	1051 - EROSION CONTROL	1081 - UTILITIES - BID ITEMS	1211 - BRIDGE NO. 1	1999 - FULL C.E. ITEMS	GRAND TOTAL	FINAL UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES UNIT	ITEMS
	2						2	EACI	CHANGING ELEVATION OF SEWER MANHOLES	604.4200			
	20						20	HR	POWER BROOM RENTAL, TYPE II	608.3002			
					65		65	CY	STONE FILL, TYPE I	613.1001			
					700		700	CY	STONE FILL, TYPE IV	613.1004			
			1				1	LS	IN-WATER SEDIMENT ISOLATION MEASURES (IN-WATER SEDIMENT ISOLAT	TION DEVICE) 614.2000			
	720						720	LF	VERTICAL GRANITE CURB (18 INCH)	616.2100			
	140						140	LF	VERTICAL GRANITE CURB (24 INCH)	616.2100			
	90						90	LF	VERTICAL GRANITE CURB, MOUNTABLE	616.2150			
	300						300	SY	REINFORCED PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.1205			
	15						15	SY	REINFORCED PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH	618.1208			
	60						60	SF	DETECTABLE WARNING SURFACE	618.3000			
	75						75	SY	STAMPED CONCRETE APRON, 5 INCH	618.4005			
	30						30	SY	STAMPED CONCRETE ISLAND, 8 INCH	618.4108			
	3						3	EACI	H BOLLARDS	619.1400			
	2						2	EACI	YIELDING MARKER POSTS	619.1700			
	475						475	LF	REMOVAL OF GUARDRAIL	621.0100			
	310						310	LF	HD STEEL BEAM GUARDRAIL	621.1260			
	5						5	EACI	ANCHOR FOR STEEL BEAM GUARDRAIL	621.1520			
	4						4	EACI	GUARDRAIL APPROACH SECTION TO CONCRETE BRIDGE RAIL, TL-3	621.8330			
				190			190	LF	PVC SEWER PIPE, ALL-INCLUSIVE, 8 INCH	628.1532			
				100			100	LF	PVC SEWER PIPE, ALL-INCLUSIVE, 10 INCH	628.1540			
				1			1	EACI	SEWER CLEANOUT, ALL-INCLUSIVE	628.3100			
				1			1	LS	TRANSFER TO NEW SYSTEM, SANITARY SEWER, ALL-INCLUSIVE	628.4300			
	4						4	EACI	ADJUST ELEVATION OF VALVE BOX	629.2800			
	200						200	HR	UNIFORMED TRAFFIC OFFICERS	630.1000			
	1200						1200	HR	FLAGGERS	630.1500			
						1	1	LS	FIELD OFFICE, ENGINEER'S	631.1000			
						1	1	LS	TESTING EQUIPMENT, CONCRETE	631.1600			
						1	1	LS	TESTING EQUIPMENT, BITUMINOUS	631.1700			
						1	1	LS	TESTING EQUIPMENT, GROUT	631.1900			
						3000	3000	DL	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)	631.2600			
	6						6	EACI	CPM SCHEDULE	633.1000			
	1						1	LS	MOBILIZATION/DEMOBILIZATION	635.1100			
	1						1	LS	TRAFFIC CONTROL, ALL-INCLUSIVE	641.1100			
	4						4	EACI	PORTABLE CHANGEABLE MESSAGE SIGN	641.1500			
	1200						1200	LF	DURABLE 4 INCH WHITE LINE, EPOXY PAINT	646.4030			
	700						700	LF		646.4130			
	45						45	LF	DURABLE 24 INCH STOP BAR, EPOXY PAINT	646.4830		N.A.B.I. =	NOT A BID ITEM
	10						10		DURABLE LETTER OR SYMBOL, EPOXY PAINT	646.4930			
	70						70		DURABLE CROSSWALK MARKING, EPOXY PAINT	646.5030			

ADDENDUM	REVISION	DATE	DESCRIPTION	BY
1	1	11-05-2024	COLUMN ADDED	T. KNIGHT



PROJECT NAME:	WATERBURY
PROJECT NUMBER:	BO 1446(40)

FILE NAME: z93j040det\_stowe.dgn
PROJECT LEADER: T. KNIGHT
DESIGNED BY: D. YOULEN QUANTITY SUMMARY SHEET 2

PLOT DATE: 11/5/2024 DRAWN BY: P. ARMATA CHECKED BY: T. KNIGHT SHEET 12 OF 68

# **QUANTITY SHEET 3**

	1011	1051 -	1081 -	DDID 05 4000 FILL							DETAILED SUMMARY OF QUANTITIES
OPTION	ROADWAY LANDSCAPING	G EROSION CONTROL	UTILITIES - BID 1211 - N	D. 1 C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER ROUND	QUANTITIES UN	IIT ITEMS
	1200	V V V V		V V V V	1200	V V V		TEMPORARY 4 INCH WHITE LINE	646.6000		
	700				700		LF	TEMPORARY 4 INCH YELLOW LINE	646.6100		
	260				260		EACH	LINE STRIPING TARGETS	646.7600		
	1660				1660		SY	GEOTEXTILE FOR ROADBED SEPARATOR	649.1100		
			g	00	900		SY	GEOTEXTILE UNDER STONE FILL	649.3100		
		2225			2225		SY	TURF ESTABLISHMENT, SPECIALTY SEED	651.1600		
		200			200		CY	TOPSOIL	651.3500		
		420			420		SY	GRUBBING MATERIAL, 6 INCH	651.4006		
		90			90		SY	GRUBBING MATERIAL, 12 INCH	651.4012		
		1			1		LS	EPSC PLAN	653.0100		
		10			10		HR	MONITORING EPSC PLAN	653.0200		
		5000			5000		DL	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	653.0300		
		0.5			0.5		TON	STRAW MULCH	653.1200		
		2210			2210			ROLLED EROSION CONTROL PRODUCT, TYPE I	653.2001		
		45			45		CY	STABILIZED CONSTRUCTION ENTRANCE	653.3500		
		3			3		EACH	INLET PROTECTION DEVICE, TYPE II	653.4002		
		4			4		EACH	FILTER BAG	653.4500		
		300			300		LF	SILT FENCE, TYPE II	653.4702		
		700			700		LF	BARRIER FENCE	653.5000		
		400			400		LF	EROSION LOG	653.6000		
	96				96		EACH	TUBELINGS	656.1200		
	2				2		EACH	EVERGREEN TREES, MEDIUM	656.2002		
	8				8		EACH	EVERGREEN TREES, LARGE	656.2003		
	6				6		EACH	DECIDUOUS TREES, MEDIUM	656.3002		
	5				5		EACH	DECIDUOUS TREES, LARGE	656.3003		
	82				82		EACH	DECIDUOUS SHRUBS	656.3500		
	15				15		EACH	PERENNIALS	656.4100		
	15				15		MGAL	LANDSCAPE WATERING	656.6500		
	40				40		CY	LANDSCAPE BACKFILL, TRUCK MEASUREMENT	656.8000		
	1				1		LS	TREE PROTECTION	656.8500		
	91				91		SF	TRAFFIC SIGN, FLAT SHEET ALUMINUM	675.2000		
	180				180		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.3410		
	15				15		EACH	SIGN REMOVAL, FLAT SHEET ALUMINUM	675.5000		
	2				2		EACH	RESETTING SIGNS	675.6000		
	1				1		EACH	REMOVAL OF EXISTING TRAFFIC CONTROL SIGNAL SYSTEM	678.1000		
	1				1		EACH	TRAFFIC SIGNAL HEAD ASSEMBLY	678.2030		
	1				1		DL	PRICE ADJUSTMENT, ASPHALT (N.A.B.I.)	690.0300		N.A.B.I. = NOT A BID ITEM
								BEGIN OPTION PRECAST CONCRETE STRUCTURE	}		
1					1		EACH	PRECAST CONCRETE STRUCTURE (MOMENT SLAB 1)	540.1500		
						A A A A		END OPTION PRECAST CONCRETE STRUCTURE			
	<del></del>									1 1	

ADDENDUM	REVISION	DATE	DESCRIPTION	BY	
$\triangle$	1	11-05-2024	ADD ITEMS AND LIST MOMENT SLAB AS AN OPTION	T. KNIGHT	

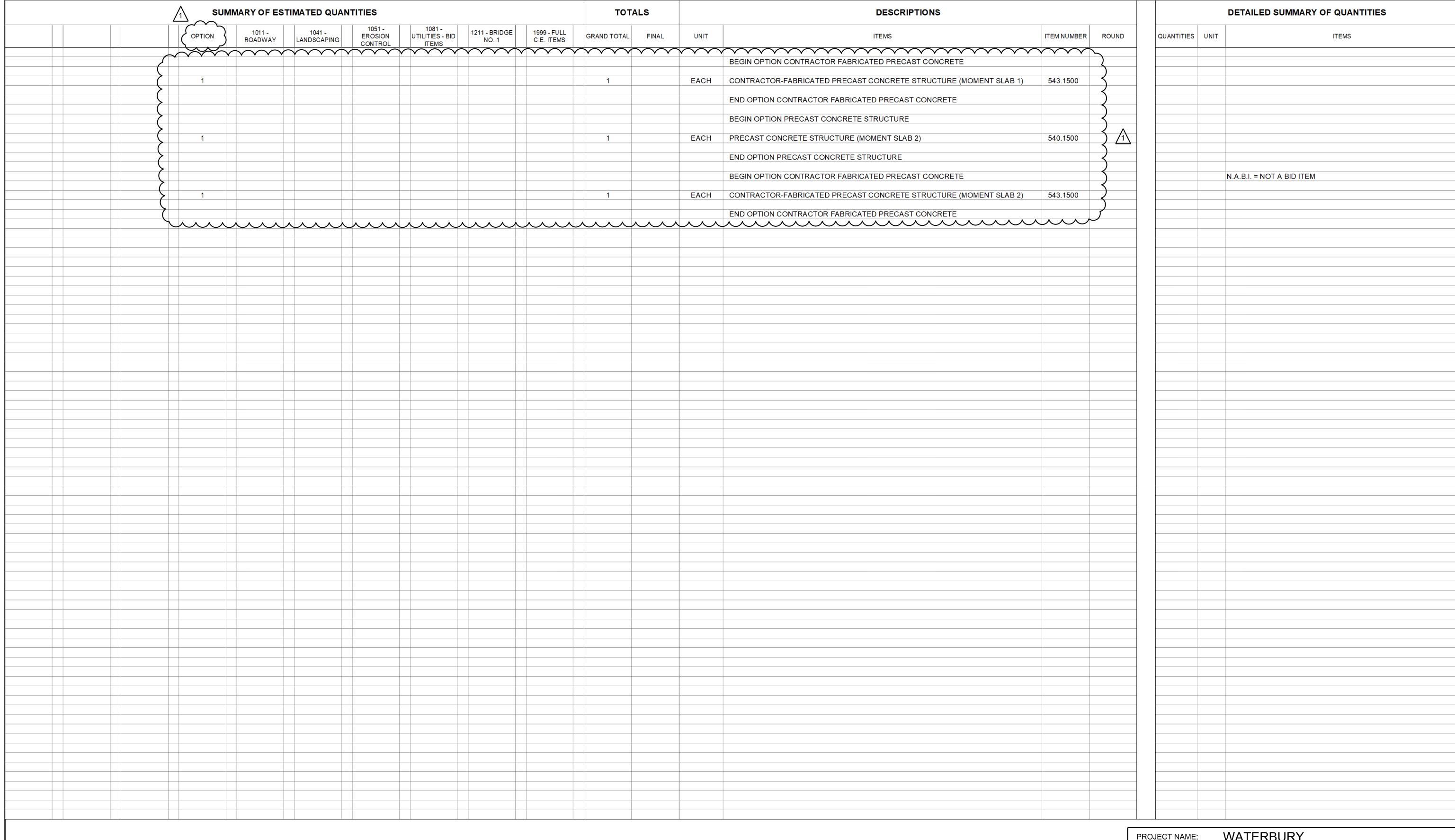


PROJECT NAME:	WATERBURY
PROJECT NUMBER:	BO 1446(40)

FILE NAME: z93j040det\_stowe.dgn
PROJECT LEADER: T. KNIGHT
DESIGNED BY: D. YOULEN
QUANTITY SUMMARY SHEET 3

PLOT DATE: 11/5/2024 DRAWN BY: P. ARMATA CHECKED BY: T. KNIGHT SHEET 13 OF 68

## **QUANTITY SHEET 4**



ADDENDUM	REVISION	DATE	DESCRIPTION	BY
1	1	11-05-2024	LIST MOMENT SLAB AS AN OPTION	T. KNIGHT



PROJECT NAME:	WATERBURY
PROJECT NUMBER:	BO 1446(40)

FILE NAME: z93j040det\_stowe.dgn
PROJECT LEADER: T. KNIGHT
DESIGNED BY: D. YOULEN
QUANTITY SUMMARY SHEET 4

PLOT DATE: 11/5/2024
DRAWN BY: P. ARMATA
CHECKED BY: T. KNIGHT
SHEET 13A OF 68