

# **ADDENDUM NUMBER 1:**

## **CITY OF PORTSMOUTH, NEW HAMPSHIRE SAGAMORE AVENUE RECONSTRUCTION PHASE I**

### **CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS**

**Issued: June 27, 2014  
For Bids Due: July 2, 2014**

This addendum modifies, amends, and supplements parts of the Contract Documents, Technical Specifications, and Construction Drawings for the **City of Portsmouth, Sagamore Avenue Reconstruction – Phase I Project**, and is hereby made an integral part thereof by reference and shall be as binding as though inserted in its entirety in the locations specified herein. The Contractor shall notify their subcontractors and suppliers of any changes or modifications contained in this addendum. The Contractor shall acknowledge receipt of this addendum on the Bid Form.

The Contract Documents, Technical Specifications, and Construction Drawings for the subject project shall be supplemented and/or amended as follows:

#### **A. SPECIAL CONDITIONS**

##### **Section 3. Special Conditions shall be modified as follows:**

Substantial Completion includes all work except final wearing course paving, pavement striping, and minor site cleanup. The City prefers for the Contractor to achieve substantial completion in 2014 while the Sagamore Creek Bridge is out. If Substantial Completion cannot be achieved in 2014, the Contractor must install temporary paving on all areas within the project area where pavement has been removed. **However, the Contractor shall only be paid for temporary paving over water service trenches and water main work.**

The intent of this pay structure is to entice the Contractor to only undertake subsurface sewer, drain and roadway work that can be paved over with the final binder pavement before the end of the 2014 construction season. This approach will minimize the quantity of sacrificial temporary paving.

A potential construction sequencing scenario that minimizes temporary paving with a substantial completion in 2015 may include:

- Install all water services and water main connections so that the existing 8" CI main can be decommissioned.
- Complete sewer main, sewer services, drainage and roadway between South Street and Jones Avenue (approximately 1,500 LF).
- Install binder pavement between South Street and Jones Avenue
- Install temporary trench patch pavement over water services and water main work between Jones Avenue and the end of the project.

Prior to the start of any work, the Contractor shall submit for approval a proposed work schedule. If Substantial Completion is not achieved in 2014, the Contractor will not be paid for additional mobilization/demobilization costs.

## **B. BIDDING DOCUMENTS**

### **1. Bid Proposal**

Revisions to the bid items are listed below (items that have been revised are shaded in the attached bid form):

- a. **Item 1.3** – Cast Iron Covers for Sewer Service Cleanouts, estimated **quantity = 0** (cast iron covers shall not be required; cleanouts located in driveways will be set below the driveway gravel, capped with a plastic cover, and paved over)
- b. **Item 2.6** – 12” x 6” SS tapping valve assembly, estimated **quantity = 1**
- c. **Item 2.7** – Hydrant assemblies will not require a hydrant gate valve.
- d. **Item 3.2** – 12” CPE Drain pipe, estimated **quantity = 456**.
- e. **Item 3.2** – 15” CPE Drain pipe, the item number shall be revised to **Item 3.2A**.
- f. **Item 3.2A** – 12” DR 14 AWWA C900 pipe, the item number shall be revised to **Item 3.2B**.
- g. **Item 6.4A**– Temporary hot bituminous pavement. This item has been added to accommodate temporary paving that may be needed over the water services and water main work only if substantial completion is not achieved in 2014.
- h. **Item 11.3** – Retroreflective paint marking, 4” line, estimated **quantity = 14,100**.

A revised Bid Proposal Form is provided herein. This revised form shall replace the previous form entirely. **Submitted proposals shall use the attached revised bid proposal form.**

## **C. TECHNICAL SPECIFICATIONS**

### **1. Section 01025 – Measurement and Payment**

- a. **Item 1.3 – Cast Iron Covers for Sewer Service Cleanouts** – Deleted from project.
- b. **Item No. 2.7 – Hydrant Assemblies** – Hydrant assemblies will not require a hydrant gate valve.
- c. **Item Nos. 3.1, 3.2, 3.2A & 3.3 – Drain Pipe**, shall be revised to read: **ITEM NOS. 3.1, 3.2, 3.2A & 3.2B: FURNISH & INSTALL DRAIN PIPE (ALL SIZES)**.
- d. **Item Nos. 6.4 & 6.5 – Furnish and Install Hot Bituminous Pavement Hand Method**: shall be revised to include Item 6.4A (temporary pavement).
- e. **Item No. 8.4: Maintenance of Traffic & Traffic Regulation**: Section B.6. shall be deleted. Portable message boards will not be required.

#### **D. CONSTRUCTION DRAWINGS**

1. **Sheet N-1 – General Notes and Legend:** Traffic Management and Signing Notes, Note 5 shall be deleted. The Contractor is not required to provide portable message boards.
2. **Sheet N-3 – Drain and Sewer Notes:**  
CB-8 and DP-10 utility notes have been modified as shown in the attached plan sheet.
3. **Sheet G-2 - General Plan & Profile:**  
CB-8 and DP-10 have been relocated to the location shown in the attached plan sheet. CB-8 now includes a concrete apron, incidental to the cost of the catch basin.
4. **Sheet D-2 – Miscellaneous Details**  
The Grass-Lined Swale and Catch Basin with Concrete Apron Details have been added to the Miscellaneous Drawing sheet. See attached.
5. **Sheet D-5 – Water Details, Typical Hydrant Detail:**  
The City has installed the 12” SS tapping sleeves, so the 6” gate valve w/ constrained joint is not required. The hydrant assembly pay item (Item 2.7) shall include all materials from the hydrant through the 90 degree bend for the hydrant riser. The 6” hydrant lead pipe shall be paid under Item 2.1, 6” DI water main. This work shall include connecting from the SS tapping sleeve valve to the hydrant bend, and it is incidental to Item 2.1.

#### **E. GENERAL**

1. **Pre-Bid Meeting Notes:** Meeting notes (Attached to this Addendum) for the pre-bid meeting held on June 24, 2014 are included in the Contract Documents by this Addendum No. 1.

**Please acknowledge this addendum within your proposal, failure to do so may subject a bidder to disqualification.**

#### **Attachments to Addendum No. 1:**

Bid Proposal Form  
Construction Drawing Sheets N-3, G-2, & D-2  
Pre-bid Meeting Notes

**END OF ADDENDUM NO. 1**

BID ITEM	EST. QNT.	UNITS	BID ITEM DESCRIPTION AND UNIT PRICE IN WORDS		UNIT PRICE	EXTENDED TOTAL
1.1	720	LF	Furnish and install 6" PVC SDR 35 sewer service connection all depths, including earth excavation, fittings, backfill, dewatering, curbing and property restoration: _____ Dollars and _____ Cents per	LF		
1.2	2,500	LF	Furnish and install 10" PVC SDR 35 sewer pipe all depths, including removal or plugging of existing sewer line, earth excavation, fittings, backfill, and dewatering: _____ Dollars and _____ Cents per	LF		
<del>1.3</del>	<del>0</del>	<del>EA(*)</del>	<del>Furnish and install cast iron covers for sewer service cleanouts when cleanouts are located in paved areas :                      _____ Dollars and                      _____ Cents per</del>	<del>EA(*)</del>		
1.4	11	EA	Furnish and install standard 4' diameter sewer manholes including excavation and backfill: _____ Dollars and _____ Cents per	EA		
1.5	1,000	LF (*)	Furnish and install geotextile fabric around sewer bedding stone and pipe (in trench) where directed in accordance with the standard details: _____ Dollars and _____ Cents per	LF (*)		
1.6	150	LF (*)	Furnish and install Geogrid Trench Stabilization where directed in accordance with the standard details: _____ Dollars and _____ Cents per	LF (*)		

BID ITEM	EST. QNT.	UNITS	BID ITEM DESCRIPTION AND UNIT PRICE IN WORDS		UNIT PRICE	EXTENDED TOTAL
1.7	2	EA (*)	Field core sewer manholes (4" - 15" diameter pipe) including pipe connection system: _____ Dollars and _____ Cents per	EA (*)		
1.8	2	EA (*)	Remove sewer manholes including backfill, disposal of concrete, and salvage of frames and covers to City: _____ Dollars and _____ Cents per	EA (*)		
1.9	15	CY (*)	Furnish and install flowable fill in ex. sewer main and where directed: _____ Dollars and _____ Cents per	CY (*)		
1.10	2,500	LF	Post Construction Video of Sewers where directed (Section 01382): _____ Dollars and _____ Cents per	LF		
1.11	30	EA	Locate existing sewer service by Video Inspection, transmitter and locator (Section 01382) : _____ Dollars and _____ Cents per	EA		
2.1	180	LF (*)	Furnish and install, 6" diameter ductile iron water main including earth excavation, fittings not paid for under another item, backfill, insulation, dewatering and testing: _____ Dollars and _____ Cents per	LF (*)		

BID ITEM	EST. QNT.	UNITS	BID ITEM DESCRIPTION AND UNIT PRICE IN WORDS		UNIT PRICE	EXTENDED TOTAL
2.2	1	LS	8" CI water main decommissioning: _____ Dollars and _____ Cents per	LS		
2.3	2	EA	Furnish and install, Water Main Connections including 12" SS tapping sleeve and valve, CLDI pipe and appurtenances, earth excavation, fittings, backfill, insulation, dewatering and testing: _____ Dollars and _____ Cents per	EA		
2.4	1,000	LF (*)	Furnish and install, 1" copper water service pipe including earth excavation, backfill, insulation, dewatering and testing: _____ Dollars and _____ Cents per	LF (*)		
2.5	26	EA(*)	Furnish and install, 1" water service connections, including earth excavation, backfill, insulation, dewatering and testing: _____ Dollars and _____ Cents per	EA(*)		
2.6	1	EA(*)	Furnish and install, 12" x 6" stainless steel tapping valve assembly for fire hydrant assemblies including earth excavation, tapping sleeve, fittings not paid for under another item, backfill, insulation, dewatering and testing: _____ Dollars and _____ Cents per	EA(*)		
2.7	5	EA	Furnish and install, hydrant assembly including, <del>gate valve</del> , pipe extension, backfill, insulation, dewatering and testing: _____ Dollars and _____ Cents per	EA		

BID ITEM	EST. QNT.	UNITS	BID ITEM DESCRIPTION AND UNIT PRICE IN WORDS		UNIT PRICE	EXTENDED TOTAL
2.8	3(*)	EA	12" CLDI Water relocation at drainage conflicts (if required) : _____ Dollars and _____ Cents per	EA		
2.9	250	LF (*)	Furnish and install 2" thick x 24" wide rigid polystyrene insulation: _____ Dollars and _____ Cents per	LF (*)		
3.1	150	LF (*)	Furnish and install 6" CPDT drain service connection all depths, including earth excavation, fittings, backfill, dewatering, curbing and property restoration: _____ Dollars and _____ Cents per	LF (*)		
3.2	456	LF	Furnish and install 12" CPE, all depths, including earth excavation, fittings, backfill, and dewatering: _____ Dollars and _____ Cents per	LF		
3.2A	810	LF	Furnish and install 15" CPE, all depths, including earth excavation, fittings, backfill, and dewatering: _____ Dollars and _____ Cents per	LF		
3.2B	60 (*)	LF	Furnish and install 12" DR14 AWWA C900 pipe, all depths, including earth excavation, fittings, backfill, and dewatering: _____ Dollars and _____ Cents per	LF		

BID ITEM	EST. QNT.	UNITS	BID ITEM DESCRIPTION AND UNIT PRICE IN WORDS		UNIT PRICE	EXTENDED TOTAL
3.3	1	EA	Furnish and install 4' diameter drain manhole including excavation and backfill: _____ Dollars and _____ Cents per	EA		
3.4	18	EA	Furnish and install standard 4' diameter catch basin including excavation and backfill: _____ Dollars and _____ Cents per	EA		
3.5	1	EA	Furnish and install standard 5' diameter catch basin including excavation and backfill: _____ Dollars and _____ Cents per	EA		
3.6	100	LF (*)	Furnish and install geotextile wrap around drain bedding stone and pipe (in trench) where directed : _____ Dollars and _____ Cents per	LF (*)		
3.7	3	EA (*)	Field core drain manholes or catch basins, 4" - 15" dia. pipe: _____ Dollars and _____ Cents per	EA (*)		
3.8	4	EA	Furnish and install Tree Box Filters including 4" CPDT drain connection, excavation and backfill: _____ Dollars and _____ Cents per	EA		



BID ITEM	EST. QNT.	UNITS	BID ITEM DESCRIPTION AND UNIT PRICE IN WORDS		UNIT PRICE	EXTENDED TOTAL
4.1	1	LS	Site Work: _____ Dollars and _____ Cents per	LS		
4.2	200	CY (*)	Ledge removal including disposal (MIN \$80/CY, MAX \$140/CY): _____ Dollars and _____ Cents per	CY (*)		
4.3	10	EA (*)	Exploratory test pit excavation (as shown <b>and</b> where directed by Engineer): _____ Dollars and _____ Cents per	EA (*)		
4.4	1	Allow	Vibration Monitoring: <b>TEN THOUSAND</b> Dollars and <b>ZERO</b> Cents per (ALLOWANCE)	Allow	<b>\$10,000.00</b>	<b>\$10,000.00</b>
5.1	4,430	CY (F)	Furnish and install Crushed Stone - Course Gradation (NHDOT Item 304.5): _____ Dollars and _____ Cents per	CY (F)		
5.2	2,500	CY (F)	Furnish and install Crushed Stone - Fine Gradation (Roadway/Sidewalk-NHDOT 304.4): _____ Dollars and _____ Cents per	CY (F)		

BID ITEM	EST. QNT.	UNITS	BID ITEM DESCRIPTION AND UNIT PRICE IN WORDS		UNIT PRICE	EXTENDED TOTAL
5.3	152	CY(*)	Furnish and install crushed gravel (Drives - NHDOT 304.35): _____ Dollars and _____ Cents per	CY(*)		
5.4	400	CY (*)	Temporary roadway stabilization gravels (as directed) (MIN \$10/CY): _____ Dollars and _____ Cents per	CY (*)		
5.5	975	LF	Furnish and install Porous Media Bed with sub-drain pipe, including excavation, dewatering and trench protection: _____ Dollars and _____ Cents per	LF		
5.6	100	SY(*)	Furnish and install construction geotextile fabric (where directed): _____ Dollars and _____ Cents per	SY(*)		
6.1	630	SY(*)	Cold planing existing pavement: _____ Dollars and _____ Cents per	SY(*)		
6.2	3,000	TON	Furnish and install hot bituminous pavement - Machine Method: _____ Dollars and _____ Cents per	TON		

BID ITEM	EST. QNT.	UNITS	BID ITEM DESCRIPTION AND UNIT PRICE IN WORDS		UNIT PRICE	EXTENDED TOTAL
6.3	67	TON	Furnish and install hot bituminous pavement - Machine Method (High Strength - NHDOT Item 403.1109): _____ Dollars and _____ Cents per	TON		
6.4	130	TON	Furnish and install hot bituminous pavement, hand method: _____ Dollars and _____ Cents per	TON		
6.4A	50	TON(*)	Furnish and install temporary hot bituminous pavement over water services and water main work (if required), hand method: _____ Dollars and _____ Cents per	TON(*)		
6.5	115	TON	Furnish and install porous pavement, hand method: _____ Dollars and _____ Cents per	TON		
6.6	1	Allow	Fuel Adjustment for Asphalt Escalation: <b><u>Twenty Thousand Dollars and Zero Cents</u></b> per (Allowance)	Allow		
					<b>\$20,000.00</b>	<b>\$20,000.00</b>
7.1	1,190	SY	Furnish and install 4" concrete sidewalk (fiber reinforced) : _____ Dollars and _____ Cents per	SY		

BID ITEM	EST. QNT.	UNITS	BID ITEM DESCRIPTION AND UNIT PRICE IN WORDS		UNIT PRICE	EXTENDED TOTAL
7.2	8	EA	Concrete sidewalk curb ramps with detectable warning plates: _____ Dollars and _____ Cents per	EA		
7.3	2,200	LF	Furnish and install vertical straight granite curb: _____ Dollars and _____ Cents per	LF		
7.4	130	LF	Furnish and install vertical curved granite curb: _____ Dollars and _____ Cents per	LF		
7.5	1,400	LF	Reset granite curb: _____ Dollars and _____ Cents per	LF		
8.1	1	LS	Mobilization ( <b>not to exceed 8% of total base bid</b> ) : _____ Dollars and _____ Cents per	LS		
8.2	1	Allow	Archeological monitoring and delays: <b><u>TWO THOUSAND FIVE THOUSAND</u></b> Dollars and <b><u>ZERO</u></b> Cents per <b>(ALLOWANCE)</b>	Allow		
					<b>\$2,500.00</b>	<b>\$2,500.00</b>

BID ITEM	EST. QNT.	UNITS	BID ITEM DESCRIPTION AND UNIT PRICE IN WORDS		UNIT PRICE	EXTENDED TOTAL
8.3	1	UNIT	Prepare a Traffic Control Plan: _____ Dollars and _____ Cents per	UNIT		
8.4	1	UNIT	Maintenance of Traffic in accordance with the Traffic Control Plan: _____ Dollars and _____ Cents per	UNIT		
8.5	1	Allow	Uniformed officer (Allowance): <b><u>SEVEN THOUSAND FIVE HUNDRED</u></b> Dollars and <b><u>ZERO</u></b> Cents per (ALLOWANCE)	Allow	<b>\$7,500.00</b>	<b>\$7,500.00</b>
8.6	2,000	HRS (*)	Uniformed flagger for traffic control: _____ Dollars and _____ Cents per	HRS (*)		
8.7	1	UNIT	Develop an erosion control and stormwater pollution prevention plan (SWPPP) for approval and obtain NPDES Construction permit: _____ Dollars and _____ Cents per	UNIT		
8.8	1	UNIT	Implement and maintain approved erosion control plan and SWPPP: _____ Dollars and _____ Cents per	UNIT		

BID ITEM	EST. QNT.	UNITS	BID ITEM DESCRIPTION AND UNIT PRICE IN WORDS		UNIT PRICE	EXTENDED TOTAL
9.1	50	LF (*)	Remove and dispose of Asbestos Cement pipe, all diameters including earth excavation, backfill, disposal, and dewatering: _____ Dollars and _____ Cents per	LF (*)		
9.2	1	Allow	Remove trees where directed: _____ Dollars and _____ Cents per	Allow		
					<b>\$4,000.00</b>	<b>\$4,000.00</b>
9.3	4	EA (*)	Remove large stumps (24" dia. or larger at the cut face) where directed: _____ Dollars and _____ Cents per	EA (*)		
9.4	4	EA (*)	Remove small stumps (smaller than 24" dia. at the cut face) where directed: _____ Dollars and _____ Cents per	EA (*)		
10.1	2,560	SY (F)	Turf Establishment including preparation and fine grading of sub grade, loam placement and grading, seeding & mulch (hydraulic): _____ Dollars and _____ Cents per	SY (F)		
10.2	110	LF	Remove, relocated & reset stone wall: _____ Dollars and _____ Cents per	LF		

BID ITEM	EST. QNT.	UNITS	BID ITEM DESCRIPTION AND UNIT PRICE IN WORDS		UNIT PRICE	EXTENDED TOTAL
10.3	2	EA	Furnish and Install Park Benches: _____ Dollars and _____ Cents per	EA		
10.4	1	LS	Furnish and Install Landscape Plantings and Street Trees: _____ Dollars and _____ Cents per	LS		
11.1	55	SF (F)	Traffic sign, Type C: _____ Dollars and _____ Cents per	SF (F)		
11.2	16	SF (F)	Traffic sign, Type CC: _____ Dollars and _____ Cents per	SF (F)		
11.3	14,100	LF	Retroreflective paint marking, 4" line: _____ Dollars and _____ Cents per	LF		
11.4	350	LF	Retroreflective paint marking, 12" line: _____ Dollars and _____ Cents per	LF		

BID ITEM	EST. QNT.	UNITS	BID ITEM DESCRIPTION AND UNIT PRICE IN WORDS		UNIT PRICE	EXTENDED TOTAL
11.5	75	LF	Retroreflective Thermoplastic paint marking, 18" line: _____ Dollars and _____ Cents per	LF		
11.6	240	SF (F)	Retroreflective Thermoplastic paint marking, symbol or word: _____ Dollars and _____ Cents per	SF (F)		
11.7	2	EA	Rapid Rectangular Flashing Beacon Assemblies: _____ Dollars and _____ Cents per	EA		
<b>TOTAL BID</b>						

**Notes to Bidders:**

1. The **lowest bid and basis of award** will be based on Engineers Estimate of Quantities and Contractor's Bid for the Total Base Bid.
2. (F) denotes Final Pay Items. These items shall not be measured. The estimated bid item quantity shall be the final pay quantity in accordance with Section 01610.
3. (\*) means indeterminate quantity assumed for comparison of bids
4. The owner reserves the right to waive any informalities or minor defects or reject any and all bids and to take any other action that is in the best interest of the Owner.



SOUTH ST. OUTLET STRUCTURE TABLE					
STRUCTURE	STATION	OFFSET (FT)	TYPE	STRUCTURE DETAILS	REMARKS
CB#1010	100+54.4	L 12.72	CB-B	I.D. = 4' RIM ELEV. = 18.40 SUMP ELEV. = 10.90 DP-1 INV IN = 13.90 (SE)	CB#1010 IS EXISTING AND IS TO REMAIN. CONTRACTOR TO INSTALL DP-1 INTO EXISTING CORE
CB#1054	101+74.9	L 12.01	CB-B	I.D. = 4' RIM ELEV. = 24.32 SUMP ELEV. = 15.40 DP-2 INV IN = 16.00 (SE) EX-DP-1 INV IN = 20.15 (S) DP-1 INV OUT = 15.90 (NW)	
CB-1	103+68.0	R 14.00	CB-B	I.D. = 4' RIM ELEV. = 26.29 SUMP ELEV. = 16.41 DP-5 INV IN = 19.51 (S) DP-4 INV OUT = 19.41 (NE)	
DMH-1	103+50.0	L 10.00	DMH	I.D. = 4' RIM ELEV. = 26.66 SUMP ELEV. = 18.66 DP-3 INV IN = 22.56 (E) DP-4 INV IN = 19.26 (SW) DP-2 INV OUT = 19.16 (NW)	
CB-2	103+50.0	L 23.00	CB-B	I.D. = 4' RIM ELEV. = 26.57 SUMP ELEV. = 22.13 DP-3 INV OUT = 22.63 (W)	PRIOR TO ORDERING STRUCTURE, DIG EXPLORATORY TEST PIT TO CONFIRM ELEVATION/LOCATION OF THE EXISTING WATER MAIN
CB-3	105+28.0	R 16.00	CB-B	I.D. = 4' RIM ELEV. = 24.26 SUMP ELEV. = 17.30 DP-6 INV IN = 20.65 (E) DP-7 INV IN = 20.40 (S) DP-5 INV OUT = 20.30 (N)	
CB-4	105+28.0	L 14.00	CB-B	I.D. = 4' RIM ELEV. = 24.30 SUMP ELEV. = 20.30 DP-6 INV OUT = 20.80 (W)	PRIOR TO ORDERING STRUCTURE, DIG EXPLORATORY TEST PIT TO CONFIRM ELEVATION/LOCATION OF THE EXISTING WATER MAIN
CB-5	105+55.0	R 16.00	CB-B	I.D. = 4' RIM ELEV. = 24.33 SUMP ELEV. = 17.55 DP-9 INV IN = 20.90 (S) DP-8 INV IN = 20.80 (E) DP-7 INV OUT = 20.55 (N)	
CB-6	105+55.0	L 14.00	CB-B	I.D. = 4' RIM ELEV. = 24.37 SUMP ELEV. = 20.44 DP-8 INV OUT = 20.94 (W)	
CB-7	107+00.0	R 16.00	CB-B	I.D. = 4' RIM ELEV. = 27.35 SUMP ELEV. = 18.61 DP-10 INV IN = 23.42 (NE) DP-9 INV OUT = 21.63 (N)	
CB-8	107+00.0	L 14.00	CB-B	I.D. = 4' RIM ELEV. = 27.25 SUMP ELEV. = 22.77 DP-10 INV OUT = 23.28 (SW)	PRIOR TO ORDERING STRUCTURE, DIG EXPLORATORY TEST PIT TO CONFIRM ELEVATION/LOCATION OF THE EXISTING WATER MAIN

CEMETERY OUTLET STRUCTURE TABLE					
STRUCTURE	STATION	OFFSET (FT)	TYPE	STRUCTURE DETAILS	REMARKS
CB-9	116+70.0	R 14.00	CB-B	I.D. = 4' RIM ELEV. = 48.98 SUMP ELEV. = 42.20 DP-21 INV IN = 45.80 (NW) DP-11 INV OUT = 45.20 (SE)	
CB-10	118+57.0	R 14.00	CB-B	I.D. = 4' RIM ELEV. = 47.81 SUMP ELEV. = 40.59 DP-11 INV IN = 44.01 (NW) DP-22 INV IN = 44.51 (NW) DP-12 INV OUT = 43.59 (SE)	
CB-11	119+36.0	R 14.00	CB-B	I.D. = 4' RIM ELEV. = 47.52 SUMP ELEV. = 40.09 DP-12 INV IN = 43.19 (NW) DP-13 INV OUT = 43.09 (NE)	
CB-12	119+36.0	L 14.00	CB-B	I.D. = 4' RIM ELEV. = 47.52 SUMP ELEV. = 42.20 DP-13 INV IN = 42.98 (SW) DP-14 INV IN = 44.45 (SE) UD-3 INV IN = 44.45 (NW) EX DP-1 INV OUT = 42.70 (NE)	PRIOR TO ORDERING STRUCTURE, DIG EXPLORATORY TEST PIT TO CONFIRM ELEVATION/LOCATION OF THE EXISTING DRAIN LINE & WATER MAIN
CB-13	120+68.0	L 15.00	CB-B	I.D. = 4' RIM ELEV. = 48.21 SUMP ELEV. = 41.91 DP-16 INV IN = 45.18 (SE) DP-15 INV IN = 44.91 (SW) DP-14 INV OUT = 45.18 (NW)	PRIOR TO ORDERING STRUCTURE, DIG EXPLORATORY TEST PIT TO CONFIRM ELEVATION/LOCATION OF THE EXISTING WATER MAIN
CB-14	120+68.0	R 14.00	CB-B	I.D. = 4' RIM ELEV. = 48.23 SUMP ELEV. = 42.20 DP-23 INV IN = 45.99 (SE) DP-15 INV OUT = 45.20 (NE)	
CB-15	122+65.0	L 18.00	CB-B	I.D. = 4' RIM ELEV. = 49.25 SUMP ELEV. = 43.25 DP-18 INV IN = 46.25 (SE) DP-17 INV OUT = 46.25 (W)	
CB-16	124+23.0	L 23.50	CB-B	I.D. = 4' RIM ELEV. = 50.00 SUMP ELEV. = 44.00 DP-20 INV IN = 47.00 (SW) DP-19 INV IN = 47.00 (S) DP-18 INV OUT = 47.00 (NW)	
CB-17	124+25.0	R 14.00	CB-B	I.D. = 4' RIM ELEV. = 50.20 SUMP ELEV. = 44.20 DP-24 INV IN = 48.03 (S) DP-20 INV OUT = 47.20 (NE)	
CB-18	125+23.3	L 25.42	CB-B	I.D. = 5' RIM ELEV. = 50.54 SUMP ELEV. = 44.54 DP-19 INV OUT = 47.54 (N)	PRIOR TO ORDERING STRUCTURE, DIG EXPLORATORY TEST PIT TO CONFIRM ELEVATION/LOCATION OF THE EXISTING WATER MAIN

PROPOSED SEWER-PHASE 1 STRUCTURE TABLE					
STRUCTURE	STATION	OFFSET (FT)	TYPE	STRUCTURE DETAILS	REMARKS
SMH-1	102+17.8	L 6.15		I.D. = 4' RIM ELEV. = 27.25 SP-1 INV IN = 16.11 (S) EX SP-1 INV IN = 20.49 (SW) EX SP-3 INV IN = 18.94 (NE) EX SP-2 INV OUT = 15.96 (NW)	
SMH-2	106+06.8	R 5.99		I.D. = 4' RIM ELEV. = 25.11 SP-2 INV IN = 19.33 (SE) SP-1 INV OUT = 19.23 (N)	
SMH-3	107+05.2	R 2.97		I.D. = 4' RIM ELEV. = 27.80 SP-3 INV IN = 21.06 (SE) SP-2 INV OUT = 20.96 (NW)	
SMH-4	109+97.1	R 7.38		I.D. = 4' RIM ELEV. = 43.18 SP-4 INV IN = 37.43 (SE) EX SP-4 INV IN = 39.30 (E) SP-3 INV OUT = 37.33 (NW)	
SMH-5	111+97.0	R 4.85		I.D. = 4' RIM ELEV. = 48.55 SP-5 INV IN = 38.73 (SE) SP-4 INV OUT = 38.63 (NW)	
SMH-6	113+77.4	R 4.53		I.D. = 4' RIM ELEV. = 50.72 SP-6 INV IN = 39.55 (SE) SP-5 INV OUT = 39.45 (NW)	
SMH-8	117+15.9	R 0.72		I.D. = 4' RIM ELEV. = 48.96 SP-7 INV IN = 41.01 (SE) SP-6 INV OUT = 40.91 (NW)	
SMH-9	120+39.3	R 5.91		I.D. = 4' RIM ELEV. = 48.23 SP-9 INV IN = 42.40 (SE) EX SP-5 INV IN = 44.40 (SW) SP-7 INV OUT = 42.30 (NW)	
SMH-10	123+45.7	R 3.86		I.D. = 4' RIM ELEV. = 49.95 SP-10 INV IN = 44.10 (SE) EX 4" INV IN = 45.9 (E) EX 4" IN = 45.0 (W) SP-9 INV OUT = 44.00 (NW)	
SMH-11	125+33.6	L 7.36		I.D. = 4' RIM ELEV. = 52.11 SP-11 INV IN = 44.95 (S) SP-10 INV OUT = 44.85 (NW)	
SMH-12	126+78.0	L 9.67		I.D. = 4' RIM ELEV. = 56.18 EX SP-6 INV IN = 47.62 (S) SP-11 INV OUT = 47.52 (N)	

SOUTH ST. OUTLET PIPE TABLE						
PIPE NAME	TYPE	SIZE (IN)	LENGTH (FT)	SLOPE (%)	START STRUCTURE	END STRUCTURE
DP-1	CPE	15"	121'	1.66%	CB#1054	CB#1010
DP-2	CPE	15"	176'	1.80%	DMH-1	CB#1054
DP-3	CPE	12"	13'	0.50%	CB-2	DMH-1
DP-4	CPE	15"	30'	0.49%	CB-1	DMH-1
DP-5	CPE	15"	160'	0.50%	CB-3	CB-1
DP-6	CPE	12"	30'	0.48%	CB-3	CB-4
DP-7	CPE	15"	27'	0.56%	CB-5	CB-3
DP-8	CPE	12"	30'	0.47%	CB-5	CB-6
DP-9	CPE	12"	146'	0.49%	CB-7	CB-5
DP-10	CPE	12"	64'	3.50%	CB-8	CB-7

RIM ELEV. = 29.42  
SUMP ELEV. = 24.92  
DP-10 INV OUT = 25.42 (NW)

CEMETERY OUTLET PIPE TABLE						
PIPE NAME	TYPE	SIZE (IN)	LENGTH (FT)	SLOPE (%)	START STRUCTURE	END STRUCTURE
DP-11	CPE	15"	188'	0.63%	CB-9	CB-10
DP-12	CPE	15"	79'	0.50%	CB-10	CB-11
DP-13	CPE	15"	28'	0.40%	CB-11	CB-12
DP-14	CPE-PERF	12"	132'	0.55%	CB-13	CB-12
DP-15	CPE	12"	29'	1.00%	CB-14	CB-13
DP-16	CPE-PERF	12"	190'	0.55%		CB-13
DP-17	CPE-PERF	12"	8'	0.28%	CB-15	
DP-18	CPE-PERF	12"	163'	0.46%	CB-15	CB-16
DP-19	CPE	12"	102'	0.53%	CB-18	CB-16
DP-20	CPE	12"	38'	0.53%	CB-17	CB-16
DP-21	CPDT	4"	29'	0.63%	TF-1	CB-9
DP-22	CPDT	4"	13'	3.88%	TF-2	CB-10
DP-23	CPDT	4"	55'	0.50%	TF-3	CB-14
DP-24	CPDT	4"	5'	0.50%	TF-4	CB-17
UD-1	CPDT	6"	12'	22.84%		
UD-2	CPDT	6"	219'	0.63%		
UD-3	CPDT	6"	260'	0.63%		CB-12

PROPOSED SEWER-PHASE 1 PIPE TABLE						
PIPE NAME	TYPE	SIZE (IN)	LENGTH (FT)	SLOPE (%)	START STRUCTURE	END STRUCTURE
SP-1	PVC	10"	390'	0.80%	SMH-2	SMH-1
SP-2	PVC	10"	99'	1.65%	SMH-3	SMH-2
SP-3	PVC	10"	292'	5.57%	SMH-4	SMH-3
SP-4	PVC	10"	200'	0.60%	SMH-5	SMH-4
SP-5	PVC	10"	181'	0.40%	SMH-6	SMH-5
SP-6	PVC	10"	339'	0.40%	SMH-8	SMH-6
SP-7	PVC	10"	323'	0.40%	SMH-9	SMH-8
SP-9	PVC	10"	306'	0.52%	SMH-10	SMH-9
SP-10	PVC	10"	188'	0.40%	SMH-11	SMH-10
SP-11	PVC	10"	146'	1.77%	SMH-12	SMH-11

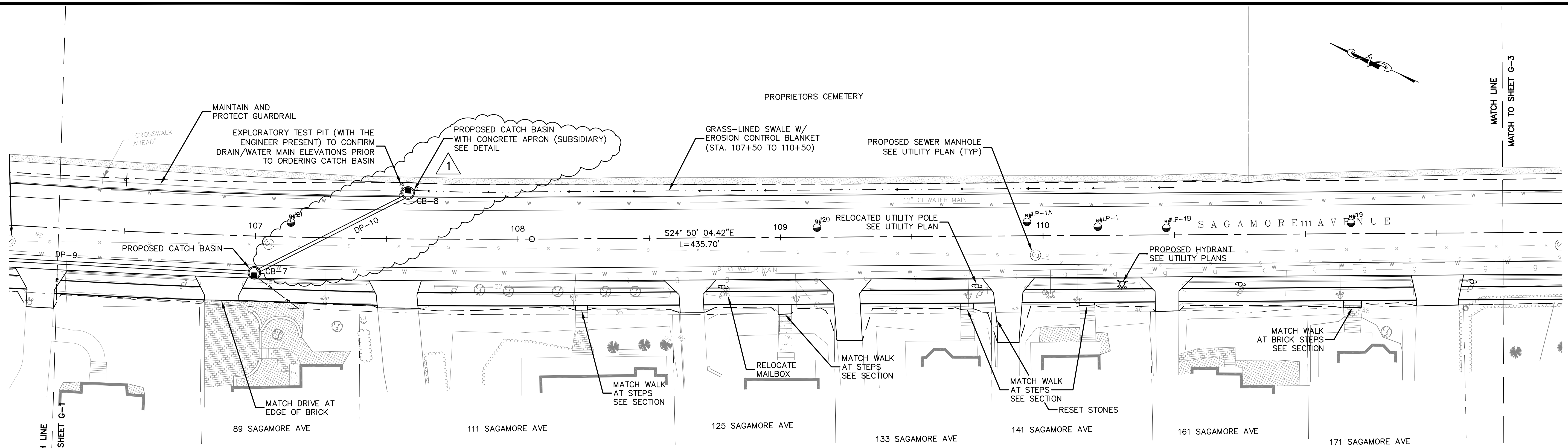
Existing Drainage Notes:

CB #1010 RIM ELEV.=18.4' (A) 15" HDPE INV.=13.6' (B) 15" HDPE INV.=13.9' (C) 12" HDPE INV.=13.7'	DMH #1107 RIM ELEV.=27.3' (STILL TO BE OPENED)	CB #3113 RIM ELEV.=47.8' (A) 2" PVC INV.=46.6' (B) 12" RCP INV.=44.4' (C) 12" RCP INV.=44.5' (D) 12" RCP INV.=44.4'	CB #4143 RIM ELEV.=56.5' (A) 8" PVC INV.=54.9' (B) 12" RCP INV.=53.9'	DMH #4221 RIM ELEV.=56.5' 6" PVC INV.=52.5' CB #6612 RIM ELEV.=67.9' 6" UNKN. INV.=66.1' CB #6682 RIM ELEV.=69.8' 6" PVC INV.=67.6'
CB #1011 RIM ELEV.=18.3' 12" HDPE INV.=14.0'	CB #1528 RIM ELEV.=24.3' 6" PVC INV.=21.9' SUMP=20.7' (ONLY ONE VISIBLE PIPE)	CB #3144 RIM ELEV.=47.8' (A) 15" PVC INV.=43.4' (B) 8" PVC INV.=42.7'	CB #4172 RIM ELEV.=57.2' (A) 12" RCP INV.=54.2' (B) SUMP=54.0' (TOO RECESSED TO ACCURATE INVERT ELEVATION)	CB #6683 RIM ELEV.=69.6' (A) 6" PVC INV.=67.2' (B) 6" PVC INV.=66.9'
CB #1024 RIM ELEV.=26.8' (STILL TO BE OPENED)	CB #2785 RIM ELEV.=49.0' 12" RCP INV.=46.4'	CB #4029 RIM ELEV.=56.9' SUMP=52.5' (NO VISIBLE PIPES)	DMH #4325 RIM ELEV.=59.4' (A) 12" RCP INV.=52.2' (B) 12" RCP INV.=50.4'	CB #6691 RIM ELEV.=69.7' 12" RCP INV.=66.8'
CB #1054 RIM ELEV.=24.4' 12" HDPE INV.=20.7' 15" HDPE INV.=20.7'	CB #3074 RIM ELEV.=48.4' 12" RCP INV.=47.2'	CB #4116 RIM ELEV.=57.1' 8" PVC INV.=56.0'		

Existing Sewer Notes:

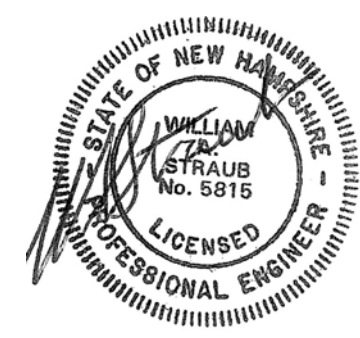
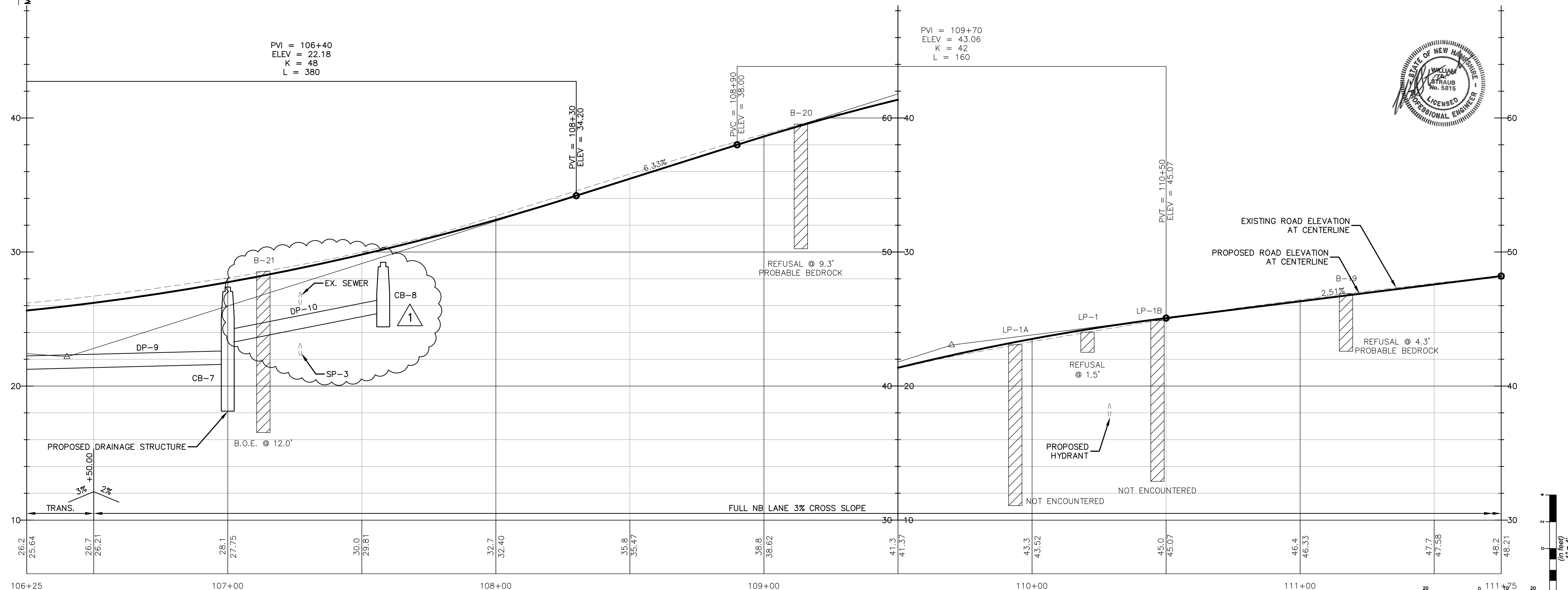
SMH #1018 RIM ELEV.=24.8' 12" PVC INV.=14.64' 12" PVC INV.=14.54'	SMH #2042 RIM ELEV.=43.2' (A) 12" CLAY INV.=39.2' (B) 12" VCP INV.=14.64' (C) 10" CLAY INV.=39.3'	SMH #2765 RIM ELEV.=49.3' (A) 8" A.C. INV.=41.9' (B) 8" A.C. INV.=41.9'	SMH #3912 RIM ELEV.=57.5' (A) 10" UNKN. INV.=48.9' (B) 4" PVC INV.=51.0' (C) 10" UNKN. INV.=48.9'
SMH #1107 RIM ELEV.=27.34' (A) 8/10" VCP INV.=18.94' (B) 12" VCP INV.=16.29' (C) 10" UNKN. INV.=20.45' (B) 12" PVC INV.=15.96'	SMH #2092 RIM ELEV.=48.5' (A) 10" UNKN. INV.=39.8' (B) 10" CLAY INV.=39.3' SMH #2506 RIM ELEV.=50.7' (A) 10" CLAY INV.=44.6' (B) 10" CLAY INV.=44.6'	SMH #3090 RIM ELEV.=48.8' (A) 10" A.C. INV.=43.2' (B) 10" A.C. INV.=43.2' (C) 10" A.C. INV.=44.4' SMH #3325 RIM ELEV.=50.1' (A) 10" A.C. INV.=45.1' (B) 4" UNKN. INV.=45.9' (C) 10" A.C. INV.=45.0' (D) 4" UNKN. INV.=45.5'	SMH #3986 RIM ELEV.=57.2' (A) 8" PVC INV.=52.8' (B) 4" CI INV.=53.2' (DROP INLET)
SMH #1516 RIM ELEV.=25.6' (A) 12" CLAY INV.=20.2' (B) 12" CLAY INV.=20.3'	SMH #2510 RIM ELEV.=51.4' (A) 10" UNKN. INV.=40.7' (B) 10" CLAY INV.=40.7'		SMH #4192 RIM ELEV.=58.4' (A) 10" UNKN. INV.=51.6' (B) 4" PVC INV.=52.4' (C) 12" PVC INV.=52.8' (D) 4" PVC INV.=52.5'

by	PAC				
date	6/27/14				
revision	Addr: 1-Updated utility tables				
no.	A				
<p>designed by: PAC/JWB/DH drawn by: JWB/SCK approved by: WAS scale: Not to Scale</p>					
<p>date: June 2014 project no: 901 file name: 901-Notes.dwg</p>					
<p>City of Portsmouth Department of Public Works Sagamore Avenue Reconstruction Phase 1 Drain and Sewer Notes</p>					
<p>drawing no: <b>N-3</b></p>					
<p>sheet: 4 of 49</p>					



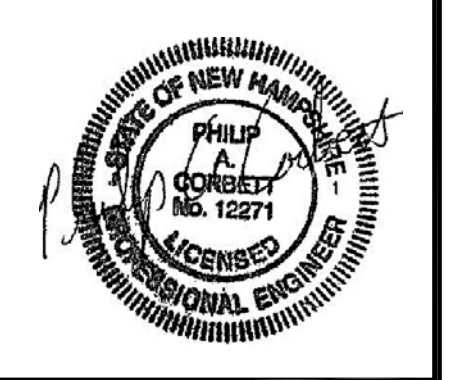
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 ELEV = 22.18  
 K = 48  
 L = 380

PVI = 109+70  
 ELEV = 43.06  
 K = 42  
 L = 160



no.	revision	date	by
1	Addr. 1-Moved CB-8, add'd concrete pad	6/27/14	PAC

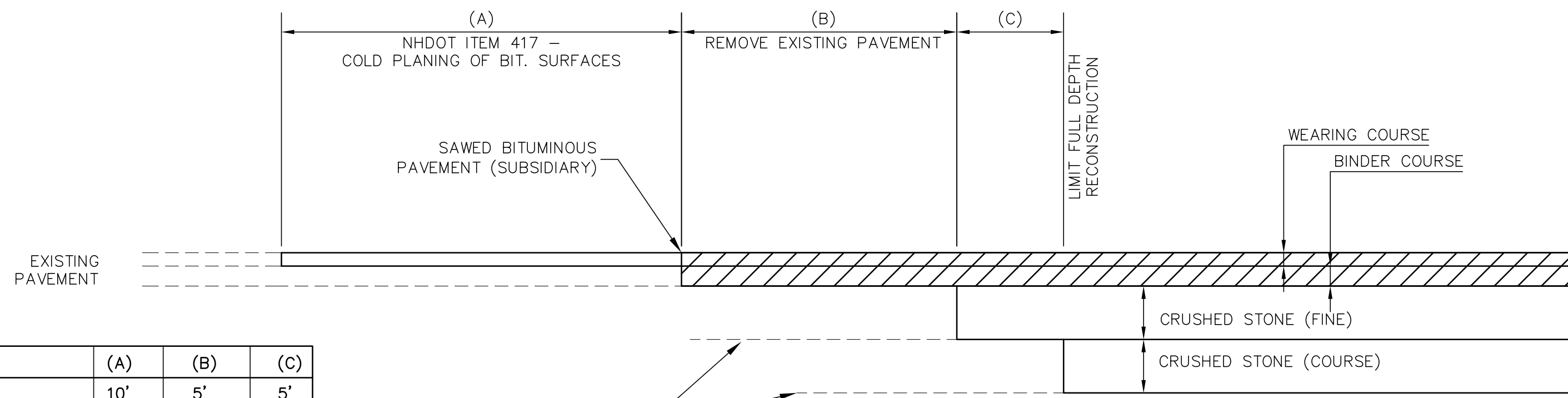
**CMA ENGINEERS**  
 CIVIL/ENVIRONMENTAL ENGINEERS  
 35 Bow Street  
 Portsmouth, NH 03801  
 603/431-0196  
 info@cmaengineers.com  
 10 Free Street  
 Portsmouth, NH 03801  
 207/654-4226  
 www.cmaengineers.com



date:	June 2014	designed by:	PAC/JWB/DH
project no:	901	drawn by:	JWB/SCK
file name:	901-General Plan.dwg	approved by:	WAS

City of Portsmouth  
 Department of Public Works  
 Sagamore Avenue Reconstruction  
 Phase 1  
 General Plan And Profile  
 STA 106+75 To STA 112+00

M:\CAD\PROJECTS\901-Sagamore Ave\Production\901-General Plan.dwg Date Plotted: Jun 25, 2014 5:49pm Plotted By: JBOUCHARD

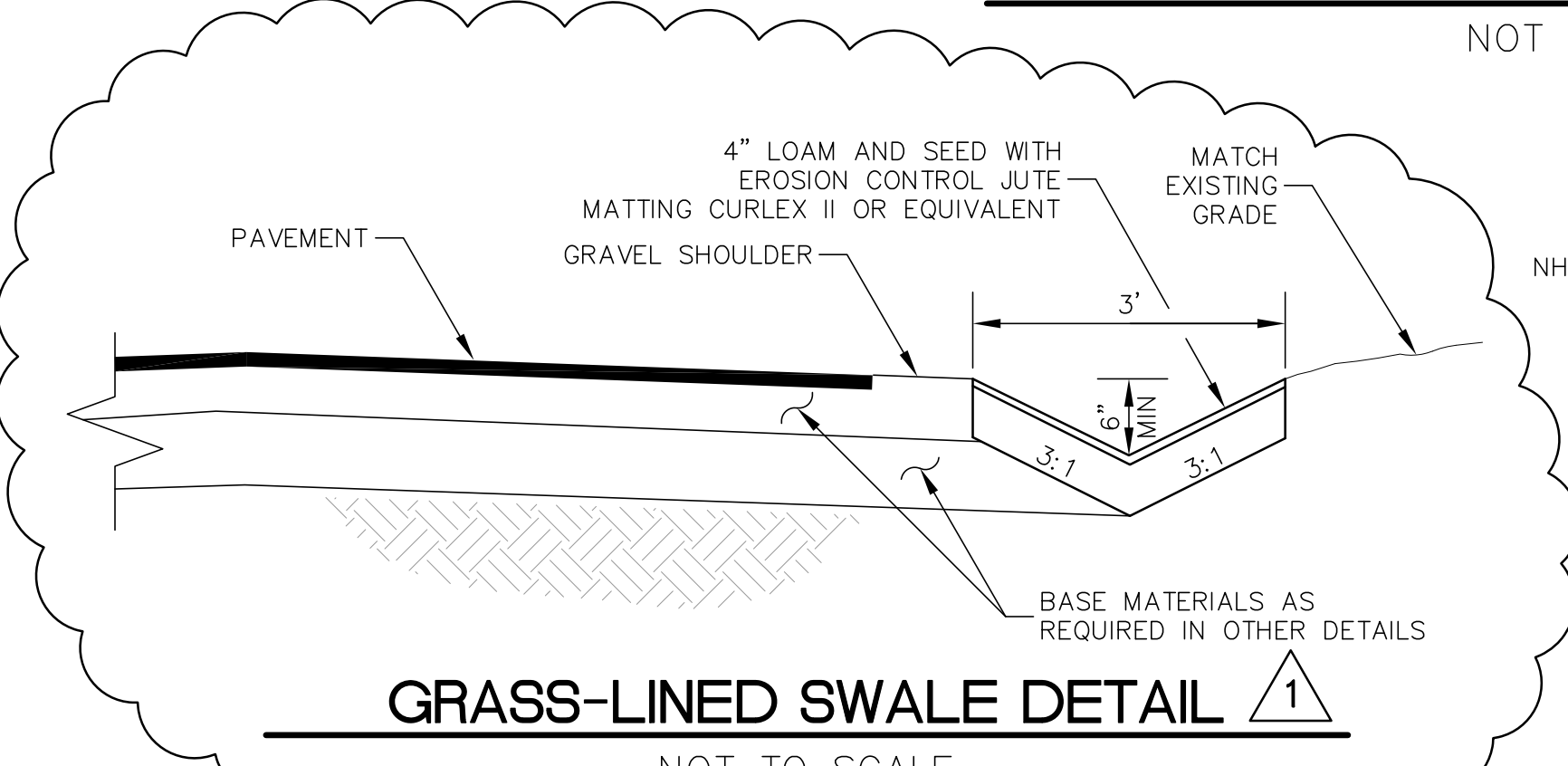


ROADWAY	(A)	(B)	(C)
JONES AVE	10'	5'	5'
VERDUN AVE	10'	5'	5'
LITTLE HARBOR RD	10'	10'	10'
SAGAMORE AVE (END)	50'	10'	10'

**PAVEMENT AND BASE COURSE TRANSITIONS**

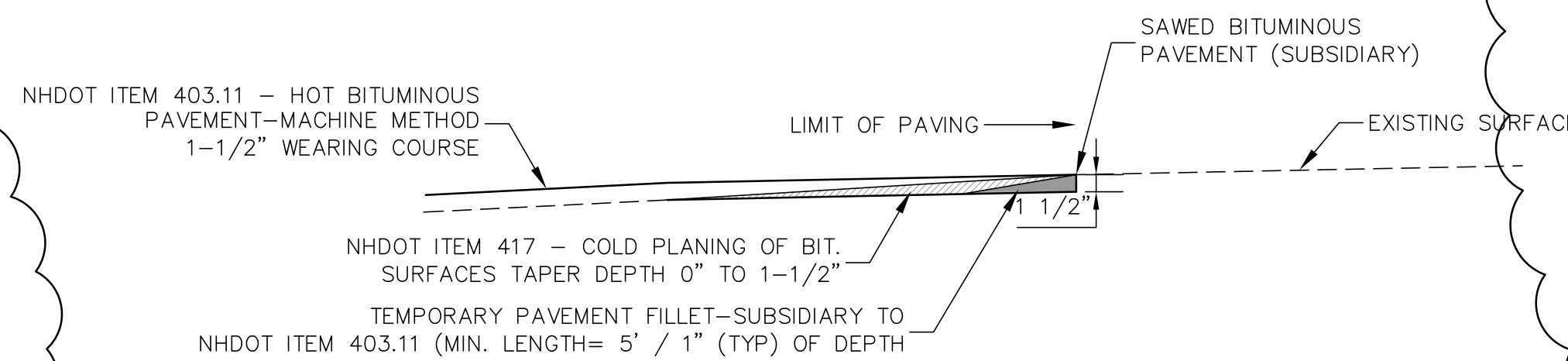
NOT TO SCALE

- NOTES:**
1. CRUSHED GRAVEL SHIM MAY BE NEEDED IN PAVEMENT REMOVAL AREAS.
  2. SEE TYPICALS FOR WEARING AND BINDER DEPTHS.



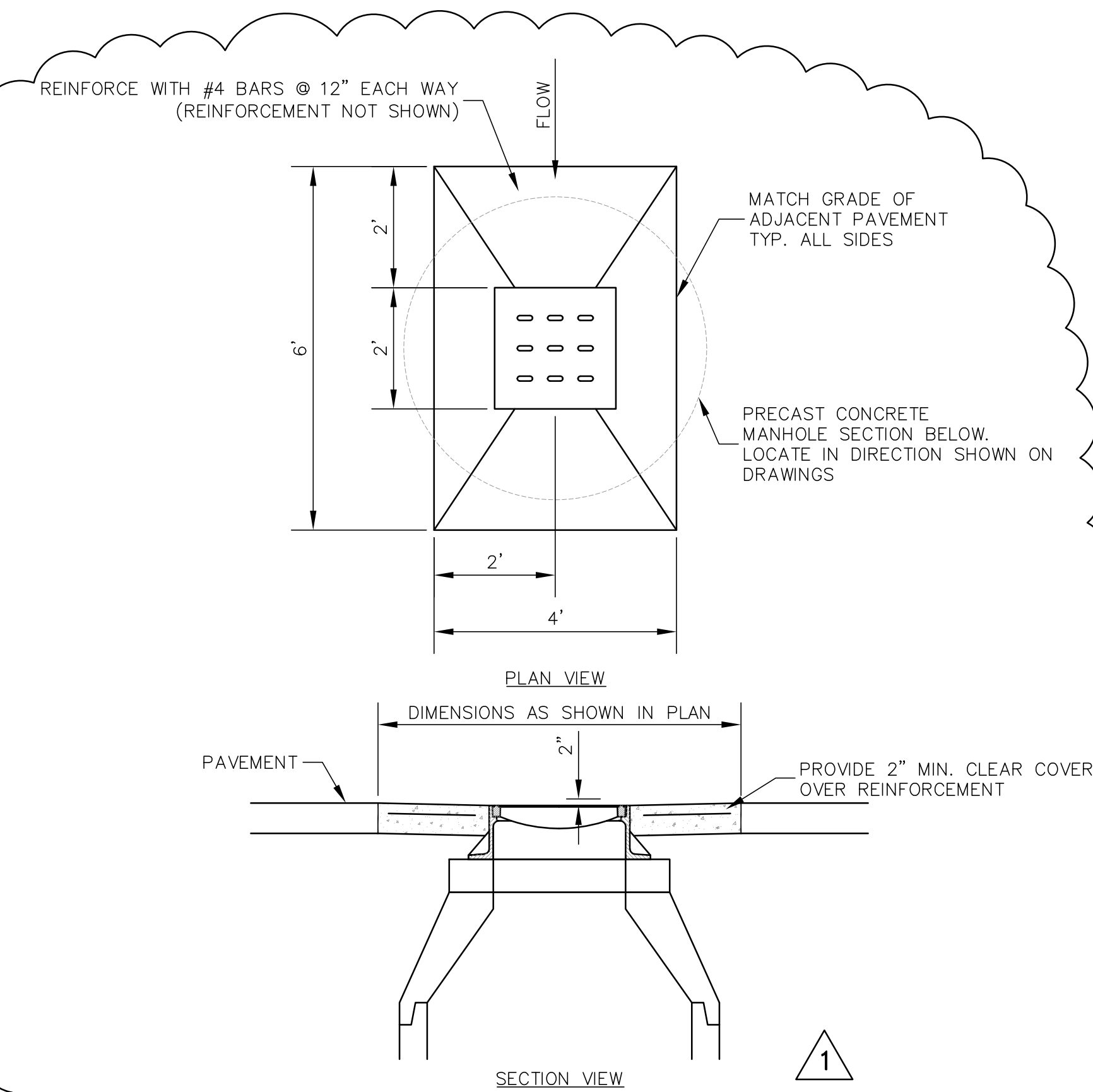
**GRASS-LINED SWALE DETAIL**

NOT TO SCALE



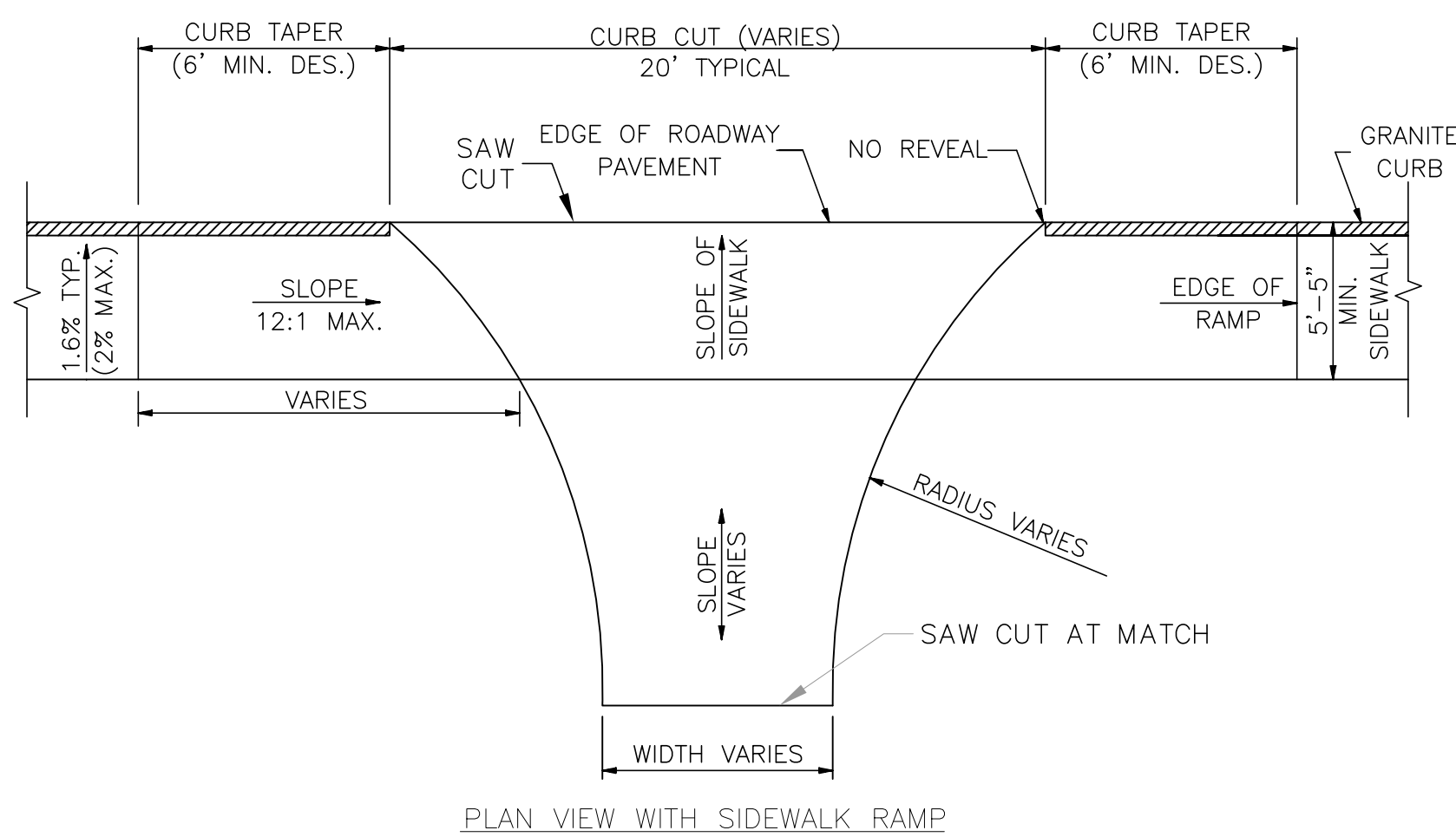
**OVERLAY PAVEMENT MATCH DETAIL**

NOT TO SCALE

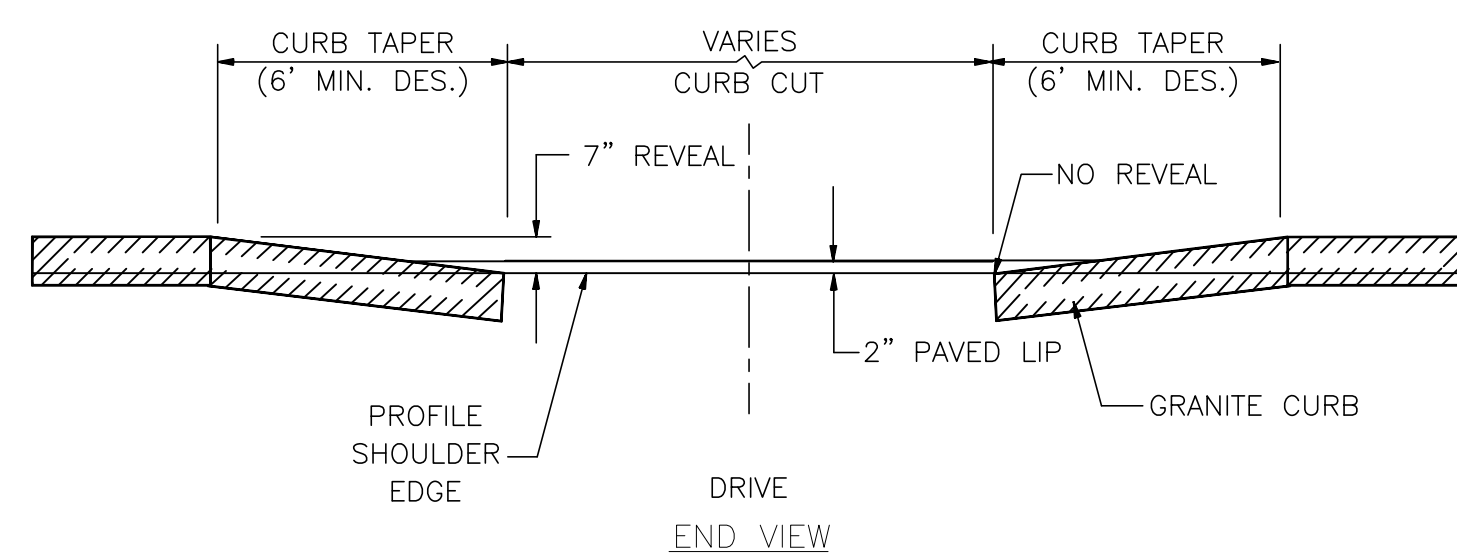


**CATCH BASIN WITH CONCRETE APRON DETAIL**

NOT TO SCALE

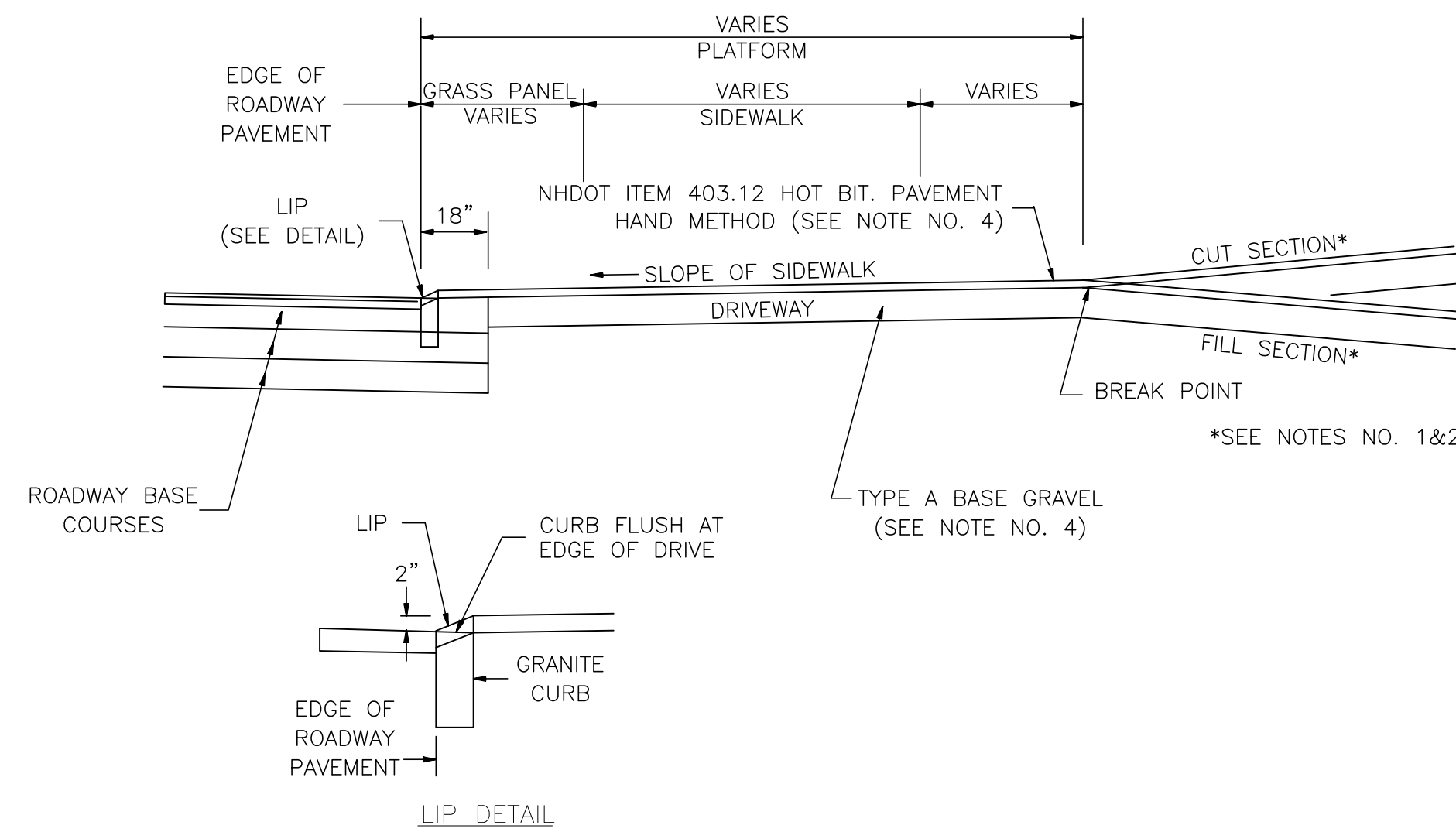


PLAN VIEW WITH SIDEWALK RAMP



**DRIVEWAY DETAIL**

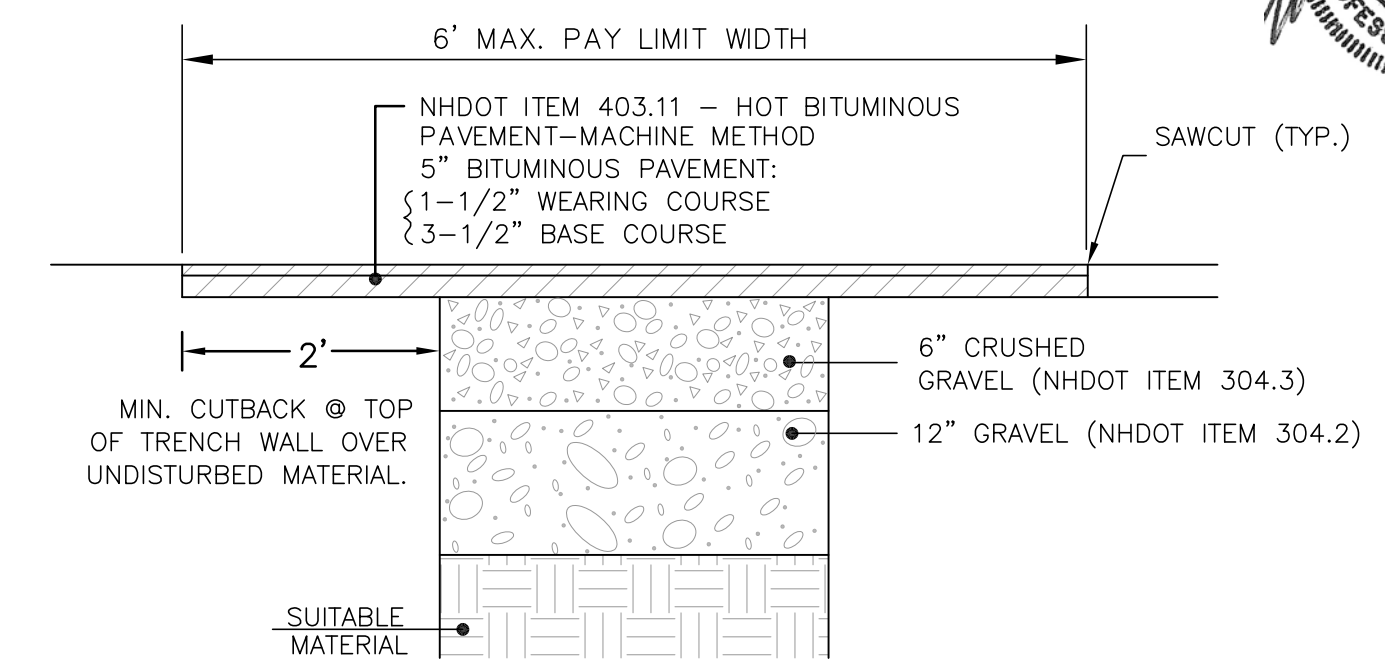
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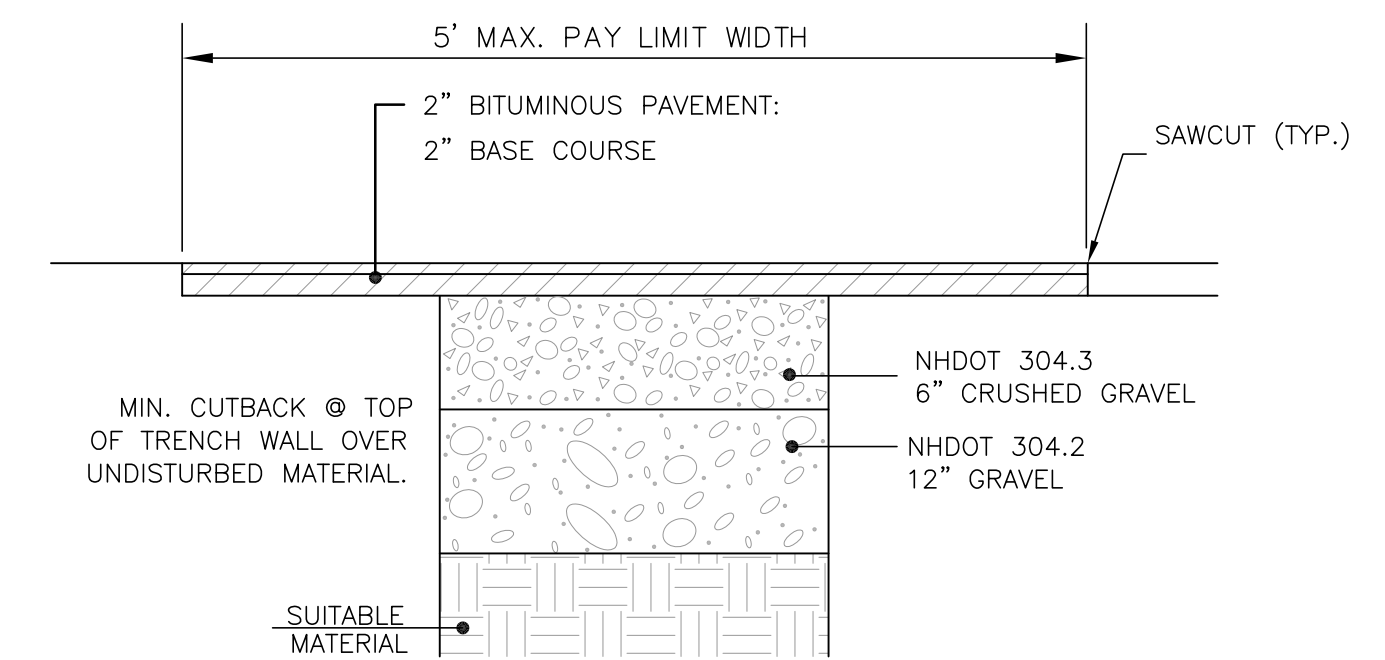
**Typical Driveway Section**

Not to Scale

- NOTES:**
1. GRADES OF MAJOR ENTRANCES BEYOND THE PLATFORM SHOULD NOT EXCEED 8%.
  2. GRADES OF OTHER DRIVES BEYOND THE PLATFORM SHOULD NOT EXCEED 15%.
  3. THE ALGEBRAIC DIFFERENCE BETWEEN TWO ADJACENT GRADES SHOULD NOT EXCEED 10%.
  4. PAVEMENT & BASE COURSE DEPTHS FOR RESIDENTIAL DRIVES ARE SHALL BE 9" CRUSHED GRAVEL WITH 2.5" H.B.P. (HAND METHOD) SINGLE COURSE.
  5. CURBING CAN BE FLARED TO FIT DRIVE RADII IF APPROPRIATE OR ENDED AS DETAILED ABOVE.
  6. FOR UNPAVED DRIVES, THE PAVED APRON NORMALLY ENDS AT THE RADIUS TANGENT POINT.
  7. SEE SHEET 24 FOR NHDOT STANDARD RAMP DETAILS.



**PERMANENT PAVEMENT REPAIR (TRENCH PATCH)**



**TEMPORARY PAVEMENT REPAIR**

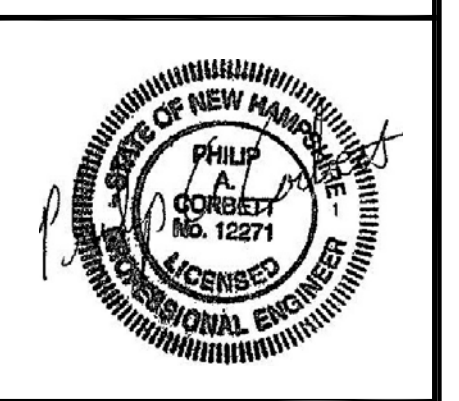
**PERMANENT DRIVEWAY PAVEMENT REPAIR/ROADWAY TRENCH PATCH**

NOT TO SCALE



no.	revision	date	by
1	Addr. 1-Added Catch Basin & Swale details	6/27/14	PAC

**CMA ENGINEERS**  
 CIVIL/ENVIRONMENTAL ENGINEERS  
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date:	June 2014	designed by:	PAC/JWB/DH
project no:	901	drawn by:	JWB/SCK
file name:	901-Details.dwg	approved by:	WAS
scale:	Not to Scale		

City of Portsmouth  
 Department of Public Works  
 Sagamore Avenue Reconstruction  
 Phase 1  
 Miscellaneous Details 1

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## PRE-BID MEETING NOTES

**PROJECT:** Sagamore Avenue Reconstruction – Phase I  
Portsmouth, NH  
CMA #901

**MEETING DATE:** 10:00 AM Tuesday, June 24, 2014

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### 1. Attendees

	Company Name	Representative	Phone	Email
1	City of Portsmouth	Peter Rice	603.427.1530	prrice@cityofportsmouth.com
3	City of Portsmouth	Tom Richter	603.766.1412	trichter@cityofportsmouth.com
4	CMA Engineers, Inc.	Phil Corbett	603.431.6196	pcorbett@cmaengineers.com
5	CMA Engineers, Inc.	Bill Straub	603.431.6196	wstruab@cmaengineers.com
6	Northeast Earth Mechanics	Nancy Bartlett	603.435.7989	JimmyL@NEEarth.com
7	SUR Construction	Bob Schulte	603.332.4554	BSchulte@SURConstruction.com
8	John H. Lyman & Sons	Jack Lyman	603.524.4314	Jack@Lymanandsons.com
9	John H. Lyman & Sons	Jim Lyman	603.524.4314	Sue@Lymanandsons.com
10	Bourassa Construction	Tim Collins	603.793.6573	Tim@Bourassa.comcast.biz.net
11	Pike Industries	Chris Matheson		
12	Albanese Brothers, Inc.	Bryan Tremblay	978.479.5393	BTremblay@Albanesebros.com
13	Baker Corp	Kevin Niland	603.851.2487	KNiland@Bakercorp.com

### 2. Introduction

*Tom Richter introduced the project team and gave a brief overview of the project. The project includes reconstruction of Sagamore Ave from South St to just past Little Harbor Road (approximately 2,500 LF). Reconstruction includes full road box, curbing, sidewalk, drainage, sewer main and services, water services, and landscaping.*

### 3. Schedule

*Phil Corbett discussed the schedule as outlined below:*

- A. **Mandatory Pre-Bid** .....**10:00 am Tuesday, June 24, 2014**
- B. **Bids Due** .....**2:00 pm Wednesday, July 2, 2014**
- C. Notice to Proceed.....July 21, 2014
- D. Substantial Completion.....150 Calendar Days

E. Final Completion .....April 30, 2014

#### **4. Contractor Eligibility**

*To be eligible to bid, Contractors must have attended the pre-bid meeting and be on the State of NH prequalification list for Road Construction.*

#### **5. Project Overview**

*Plans and Specifications can be purchased from Infinite Imaging in Portsmouth*

A. The project includes:

1. Traffic Control Plan (see section 01570)

*The contractor must develop a traffic control plan in conformance with the requirements in Specification Section 01570. One-way traffic must be maintained during construction and two-way traffic must be provided at night. A portable message sign will not be required.*

2. SWPPP/Erosion Control

*The Contractor shall prepare a SWPPP, file an NOI and maintain erosion control. Dust must be controlled, which may require, water, calcium chloride and/or street sweeping.*

3. Exploratory Test Pits

*Exploratory test pits will be required at planned locations of drainage structures along the east side of the road to confirm the proposed configuration does not conflict with the existing water main or other existing features.*

4. Sanitary sewer main and service installations

*The sewer main and services will be replaced throughout the project limits at approximately the same line and grade.*

5. Water service installation

*New water services will be installed on the existing 12" CI main that runs along the east side of the road. The existing services are connected to an 8" CI main, constructed in the late 1800's, that will be abandoned.*

6. Storm sewer drain pipe and service laterals

*New storm drain pipe and structures shall be installed as part of this project. Service laterals will be installed for each residence adjacent to a drain pipe..*

7. Roadway reconstruction (full box)

*The roadway will be reconstructed with “full box” (new gravel base and full pavements section) throughout the project.*

8. Porous pavement shoulder

*A 1,000 LF porous pavement should be included along the east side of the road. The drain pipe for this porous media is intended to be 3’ deep.*

9. Sidewalk and curbing

*The project includes new concrete sidewalk along the west side of the roadway and curbing along the west side and portions of the east side of the road.*

10. Landscaping

*The project includes reseeding, street trees and landscaping at the Little Harbor Rd intersection.*

B. Other items of note:

1. Contractor to locate sewer service (see Section 01382 – City Inspection Reports provided in Appendix B)

*The Contractor is responsible for locating the sewer services. There is a parallel sewer main that will be decommissioned; some services may be connected to this main and shall be relocated to the new sewer main.*

2. City has installed hydrant taps

*The City has installed the wet taps for the hydrant leads; this bid item shall be reduced from the bid schedule.*

3. Reuse existing granite curb on site

*The existing granite curb shall be reused. The curb will may need to be removed and re-handled.*

4. Site Work (Section 02100)

*Site Work includes clearing along the roadways, site preparation, earthwork and site restoration upon completion of such construction to the extent practicable. Site work shall consist of all work necessary to complete the project that is not covered under a separate bid item but that is indicated or reasonable implied in the drawing.*

**6. Financing & Payment**

A. City of Portsmouth

*The project is financed by the City of Portsmouth with no state or federal funding.*

B. Unit Price/Lump Sum – Bid Schedule

1. Basis of Award is lowest base bid
2. Final pay items are denoted (F); see Section 01610
3. Items with indeterminate quantities are denoted with (\*)

**7. Contract Requirements**

A. Bonds and Insurance (10% Bid Bond)

B. Contract Time/Liquidated Damages (\$1,000/day)

C. Work Hours: M-F 7am – **6pm**. Work prior to 7am or after **6pm** will require City approval (two weeks in advance). Work will not be allowed on weekends.

**8. Subsurface Conditions**

A. See Geotech Report in Appendix A.

B. Blasting, if required, is subject to the City Blasting Ordinance (Appendix C).

**9. Coordination with other Projects**

A. Sagamore Avenue Bridge Construction

*Contractors shall coordinate their work with the bridge project and maintain access for this construction. The bridge is scheduled to be complete in December 2014.*

B. Unitil gas main replacement

*Unitil is replacing the gas main. They started at South St and have progressed to Jones Ave. Generally the new gas main is located at the proposed back of sidewalk. The existing gas main is shown on the plan; not the newly installed main. The Contractor is encouraged to field review the new location. The existing gas main has been left in place and may need to be removed to construct portions of the roadway and drainage.*

*PSNH has relocated all but one utility pole. The lines have not yet been transferred over.*

**10. Testing**

A. Sewer pipe, including service laterals to cleanout, and sewer manholes require testing. *The sewer pipe and laterals shall be tested to the cleanout. The cleanout is incidental to the service pipe pay item. The sewer main is active and the Contractor must maintain flows during construction and testing.*

B. Drains are subject to visual observation and shall be cleaned prior to acceptance.

C. Material and compaction testing.

*If vibratory rolling appears to impact the cemetery stone wall, static rolling will be required. The Contractor shall plan their work and bid accordingly.*

**11. Special Conditions**

A. Staging Areas

*Limited staging is available along the roadway corridor. The City may explore staging materials on City owned property down Jones Ave, but access to this area is through a residential area and may not be acceptable.*

B. Tree removal – Urban Tree Service

*The large red oak at the corner of Verdun has been removed by the City. The Contractor is responsible for removing other designate trees and must use Urban Tree Service for this work.*

C. Cemetery wall

*A stone wall exists along the eastern side of the road, between the City ROW and private cemeteries. The project has been designed to avoid impacts to the wall. Contractor shall restrict construction activity to avoid any contact with the wall, and shall assure that activities do not affect the condition of the wall.*

*Archeological monitoring is required when installing the drainage structures on east side of roadway and work at Little Harbor Road. The Contractor shall coordinate with the Engineer and Archeologist and anticipate minor delays for their inspection. Longer delays shall be compensated under bid item 8.2.*

**12. Bid Addendum**

*A Bid Addendum shall be posted on the City's website at the end of this week and must be acknowledged on the Contractor's bid form. The Bid Addendum will include revised work hours (7am – 6pm); elimination of the portable message sign; a reconfigured catch basin near the end of the guardrail; elimination of the hydrant wet taps; and responses to Contractor's questions. Contractor's questions must be received by the end of the day on Thursday.*

**13. Questions**

**Q: Will there be a temporary pavement item if the project cannot be paved this season:**

*A: The City prefers to complete the project in 2014 to take advantage of the reduced traffic volumes while the Sagamore Creek Bridge is out. The design team will discuss this week options for a winter shutdown and a phased project.*



**Q: Does the porous pavement shoulder section require relocation of existing utilities:**

*A: We are not aware of any utilities that will have to be relocated to accommodate the porous pavement shoulder.*

**Q: What is the depth of the drain pipe for the porous pavement media:**

*A: The sub-drain pipes for the porous pavement media are 3 feet deep.*

**Q: What is the Engineer's Estimate for the project:**

*A: The Engineer's opinion of probable construction cost is \$1.9 million.*

**Q: What is the material of the existing gas main and is it being abandoned in place?**

*A: The existing gas main is plastic and is being abandoned in place.*