



## REQUEST FOR ACTION BY BOARD OF SELECTMEN

DATE SUBMITTED: October 17, 2018	<input checked="" type="checkbox"/> ACTION
DATE ACTION REQUESTED: October 22, 2018	<input type="checkbox"/> DISCUSSION ONLY
SUBJECT: York Village Improvement Project update. (Parking, Underground Utilities)	

**DISCUSSION OF OPTIONS AVAILABLE TO THE BOARD:** The Town of York has secured State and Federal transportation funding from Maine DOT and the Federal Highway Administration (FHWA) thru the Kittery Area Comprehensive Transportation Study Committee (KACTS) Metropolitan Planning Organization (MPO) for the construction of phase 1 of the York Village Improvement Project. The Maine DOT has authorized the Town of York to administer the project locally with the help of our consultants (LAP). The major reason the Town is administering the project locally is to better engage those who will be served by the project and those who may have a vested interest in the project. The Town of York through the Village Steering Committee has a better understanding of local concerns and will be able to work through those issues in a more timely and successful manner than the Maine DOT.

Municipalities delivering LAP projects with State and Federal funds are required to follow a rigorous federal and state project development process. This process requires a few activities to be done by the Maine DOT. Maine DOT has reviewed the Town's Preliminary Design Report (PDR) and issued comments. Maine DOT has also begun work related to the National Environmental Policy Act (NEPA). NEPA review is required on all projects with a federal action (funding/permits). Maine DOT is responsible for completing the NEPA process when a project has federal funding. Section 106 of the National Historic Preservation Act, Section 4(f) of the Department of Transportation Act, right of way, public meeting, hazardous material review, Section 7 of the Endangered Species Act and federal permitting level must be done before completing NEPA. Maine DOT will also be assisting the Town by providing Right-of-Way (ROW) assistance and certification.

The Town's consultants have responded to Maine DOT's comments and will be submitting the final PDR plans to MDOT for approval soon. The design work for underground utilities needs to begin in order to have good information to make a decision on whether or not to proceed with underground utilities.

Included with this action form is a plan showing the additional parking, the latest renderings of the intersection, boring plans and the planning level cost estimate information to move the overhead utilities underground.

## PROJECT HISTORY

- On Monday March 3, 2014 The Town of York, through the York Village Study Committee solicited Statements of Qualifications for planning, design, engineering and project management services for the York Village Masterplan, Design & Construction Documentation in historic York Village, Maine.
- On August 11, 2014 the York Board of Selectmen approved the Village Study Committees recommended phasing proposal for the York Village project and also awarded a contract to The Consultants of Downtown Revitalization Collaborative (TDRC) to complete the planning phase of the project (The Master Plan for York Village).
- On May 18, 2015 at 8:30 The Consultants of Downtown Revitalization Collaborative (TDRC) and the York Village Study Committee presented the York Village Master Plan to the York Board of Selectmen which completed the planning phase of the project.
- On July 6, 2015 the York Board of Selectmen approved the extension of the Town's contract with The Consultants of Downtown Revitalization Collaborative (TDRC) in the amount of \$304,060 for the Schematic Design/Preliminary Engineering and Design Development Phase of the revitalization of York Village.
- On July 21, 2015 the KACTS committee unanimously approved the York Village Improvement project appropriating \$545,107 for the first phase of construction.
- On September 23, 2015 Members of the York Village Study Committee and our consultant's (TDRC) met with representatives of the Maine DOT to discuss the KACTS Approved York Village Project.
- On November 3, 2015, the voters of York approved amending the Town's Comprehensive Plan to incorporate by reference the York Village Master Plan.
- On December 7, 2015, the York Board of Selectmen approved the Municipal-State Agreement with the proposed scope and estimated budget of \$38,000 for the Maine DOT to assist the Town of York and its consultants with all the federal and state regulatory processes.
- On May 21, 2016, the voters of York approved ballot article 60 allocating \$400,000 for the Town's 10% match for State and Federal funds to implement infrastructure improvements recommended in the York Village Master Plan.
- On July 18, 2016, the Board of Selectmen approved the Charter for the Village Revitalization Steering Committee and solicited volunteers for membership to the committee.
- On August 26, 2017, the KACTS Policy Committee unanimously approved using the entire Calendar Year 2019 allocation (\$795,027 including match) for the York Village Intersection Project construction costs.
- On September 27, 2017, the KACTS Policy Committee unanimously approved using the entire Calendar Year 2020 allocation (\$795,027 including match) for the York Village Intersection Project construction costs.

- On November 27, 2017 the Board of selectmen directed the Village Steering committee and the Department of public work to move forward with the phase 1 construction plans for the spring of 2020.

Construction Phase Funding Timeline

2018 KACTS funding - \$545,107    Earliest available – October 1, 2017

2019 KACTS funding - \$795,027    Earliest available – October 1, 2018

2020 KACTS funding - \$795,027    Earliest available – October 1, 2019

Total Approved Funding: \$2,135,161

**RECOMMENDATION:** The Village Steering Committee recommends using \$50,000 of the remaining project design funding to be used to improve the design and construction estimates for moving the overhead utilities in the Village Center underground in coordination with York Village Improvement Project.

**PROPOSED MOTION:** I move to approve the use of \$50,000 of the remaining project design funding to improve the design and construction estimates for moving the above ground utilities in the Village center underground in Coordination with the York Village Improvement Project

FISCAL IMPACT: \$50,000

DEPARTMENT LINE ITEM ACCOUNT: 216.0000.8001

BALANCE IN LINE ITEM IF APPROVED: \$102,859.13

PREPARED BY: Dean Lessard

REVIEWED BY: 

### York Village Utility Pole Ranking

By Rank	
Rank	Pole #
A	8
B	7
C	6
D	11
E	14
F	15
G	10
H	12
I	13
J	16
K	5
L	5a
M	22
N	23
O	24
P	25
Q	4
R	3
S	2
T	1
U	17
V	18
W	19
X	20
Y	26

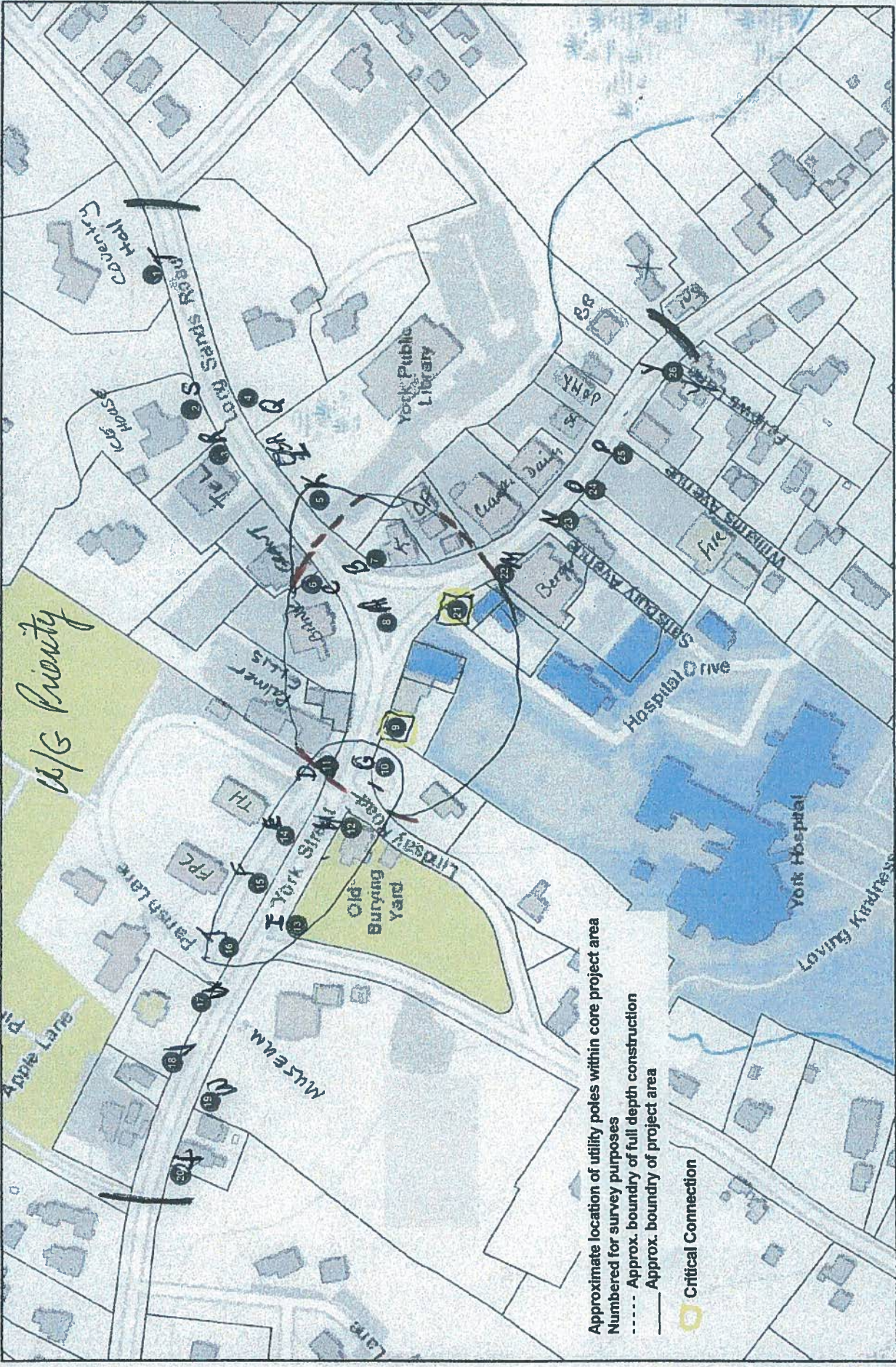
By Pole	
Pole #	Rank
1	T
2	S
3	R
4	Q
5	K
6	C
7	B
8	A
10	G
11	D
12	H
13	I
14	E
15	F
16	J
17	U
18	V
19	W
20	X
22	M
23	N
24	O
25	P
26	Y
5a	L





### Village Revitalization Project Area

Total road length of  
around 3,000 linear feet

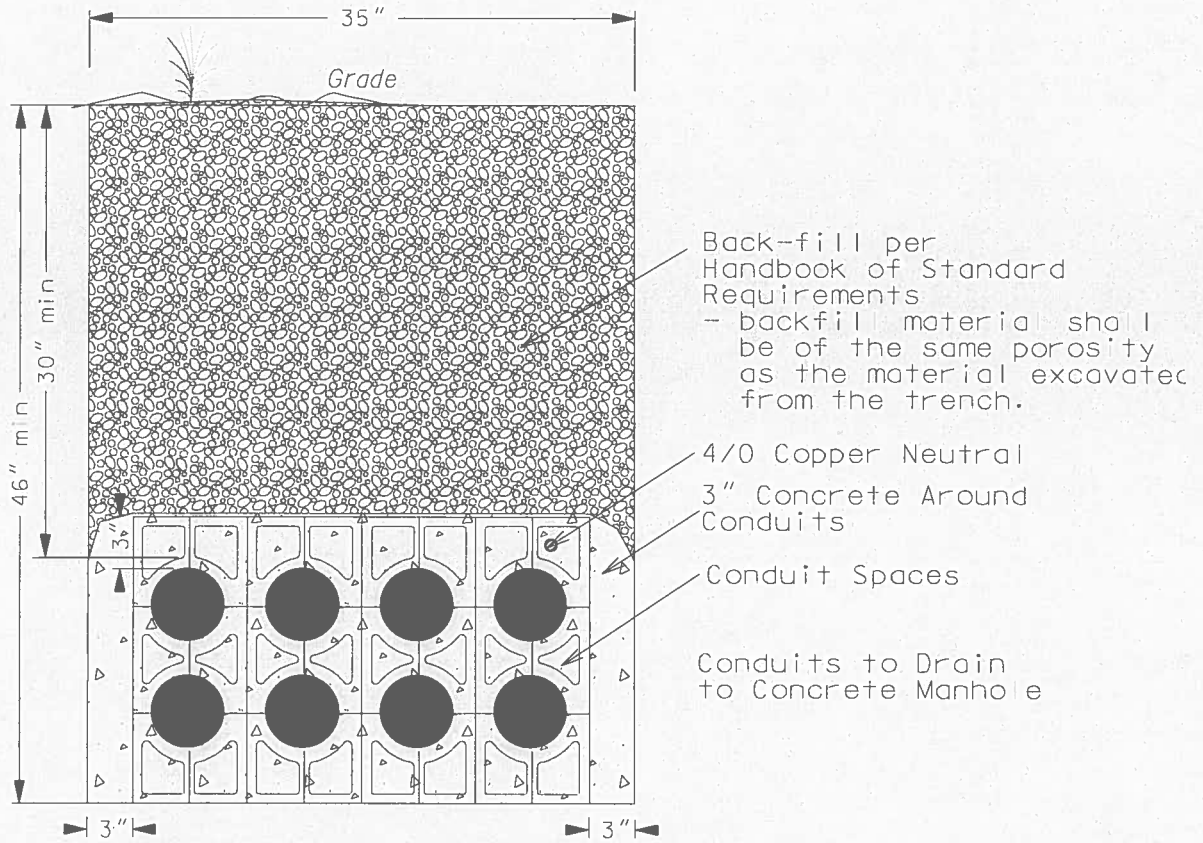


- Approximate location of utility poles within core project area
- Numbered for survey purposes
- - - - Approx. boundary of full depth construction
- Approx. boundary of project area
- Critical Connection

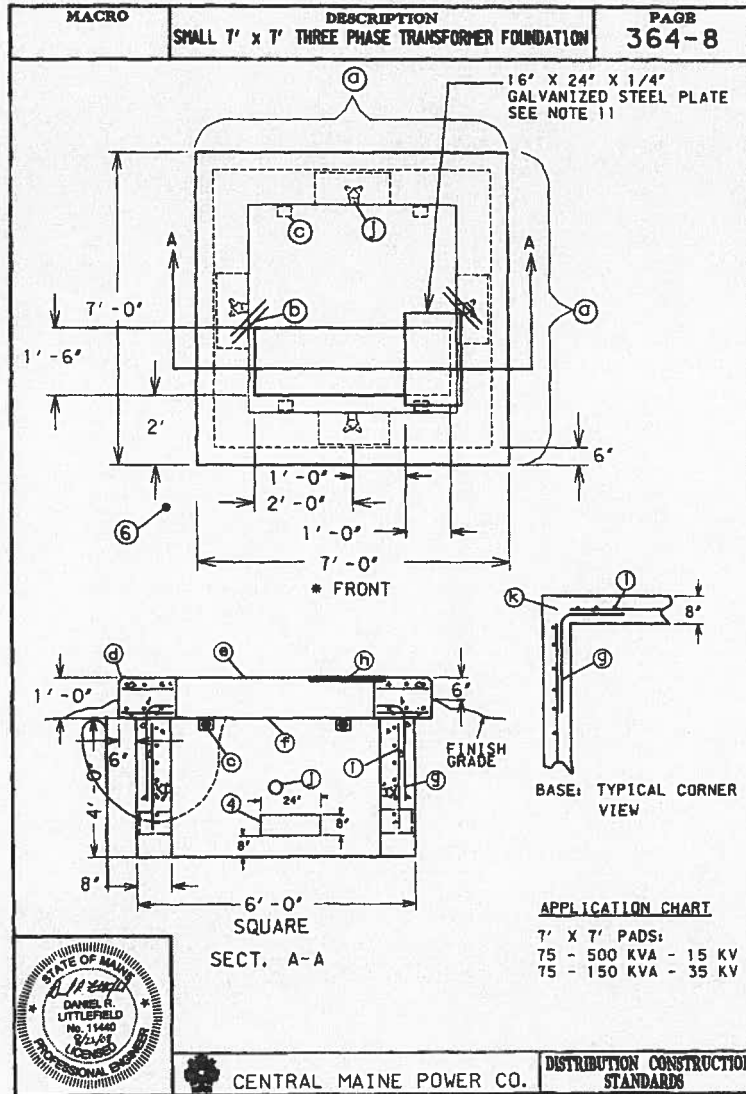
*W/G Priority*

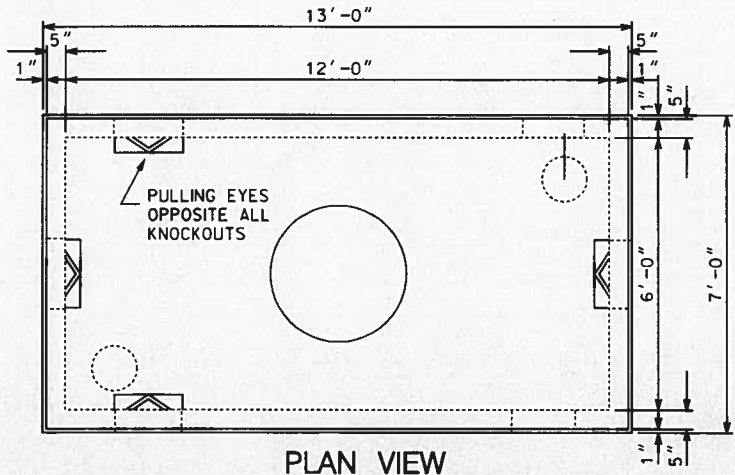


# 4x2 - 6 Inch Conduit Bank



XII. ILLUSTRATION No. 24

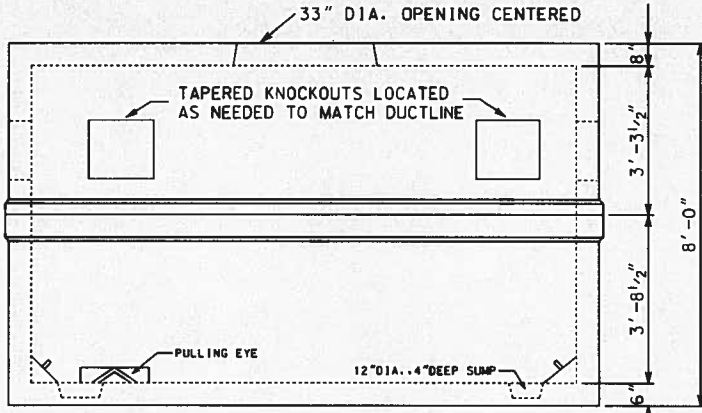




PLAN VIEW

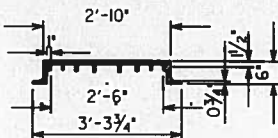


TOP VIEW



SIDE VIEW  
MANHOLE DETAIL

N.T.S.  
(Ref.Type: 38Y)



SECTION  
Brick as required to reach finished grade.

COVER DETAIL  
N.T.S.

NOTES

- 1) Vault shall be designed to withstand H20 wheel loading with 6 inches of overburden. The design shall also comply with the strength requirements of National Electrical Safety Code Section 323A. Provide shop drawings stamped by a State of Maine Registered Professional Engineer upon Request
- 2) Joints sealed with asphalt.
- 3) Mountings for cable racks etc. cast in wall by further plans or field located.
- 4) Manhole shall be set on a suitable gravel base.
- 5) Cables are to be racked along one wall only.

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

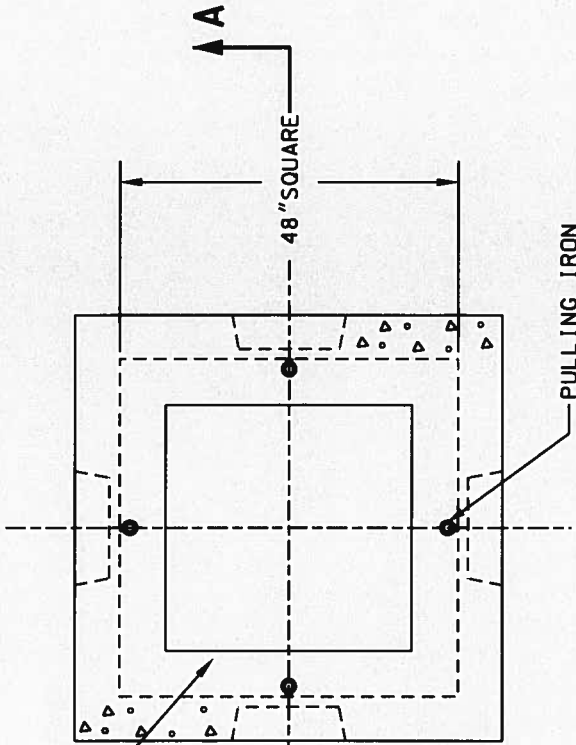
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BY	MSR	REC	
APPROVED	TSB	BAC	
APPROVED		1	
DATE	9/16/97	12/12/03	



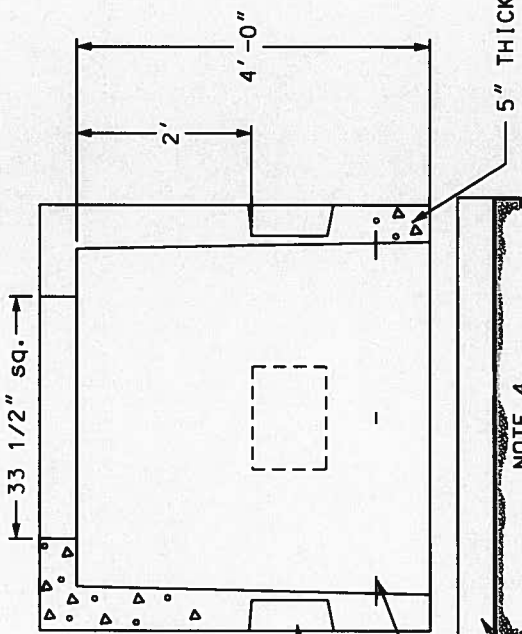
PRECAST CONCRETE  
38Y MANHOLE

CENTRAL MAINE POWER CO. 905A-1





PLAN VIEW



SECTION A - A

NOTES:

- 1) HAND HOLE SHALL BE DESIGNED TO WITHSTAND H20 WHEEL LOADING WITH 6 INCHES OF OVERBURDEN. THE DESIGN SHALL ALSO COMPLY WITH THE STRENGTH REQUIREMENTS OF NATIONAL ELECTRICAL SAFETY CODE SECTION 323A. PROVIDE SHOP DRAWINGS STAMPED BY A STATE OF MAINE REGISTERED PROFESSIONAL ENGINEER UPON REQUEST.
- 2) MAY BE USED WITH CMP'S TYPE 'B' CASTING, CMP S/C 62-1780, 62-1785, & 62-1880, (MIN. ONE COURSE OF BRICK TO GRADE.), OR THREE PHASE SWITCH CABINET, S/C 62-1490.
- 3) HAND HOLE SHALL BE SET ON A SUITABLE GRAVEL BASE.

1 General Revision  
2 Changed drawing number

4' X 4' FOUNDATION WITH  
32 1/2" SQUARE OPENING  
FOR SWITCH CABINET  
905A-8

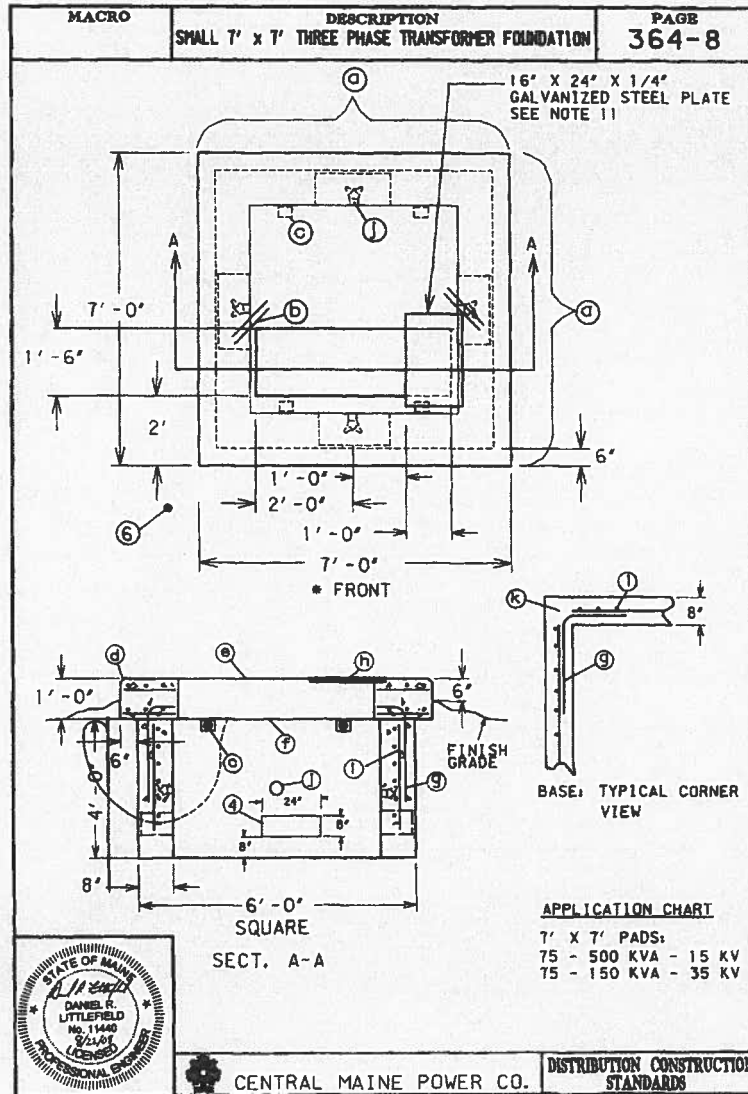
4-10"X6"  
TAPERED  
KNOCKOUTS  
(1 EA. SIDE)

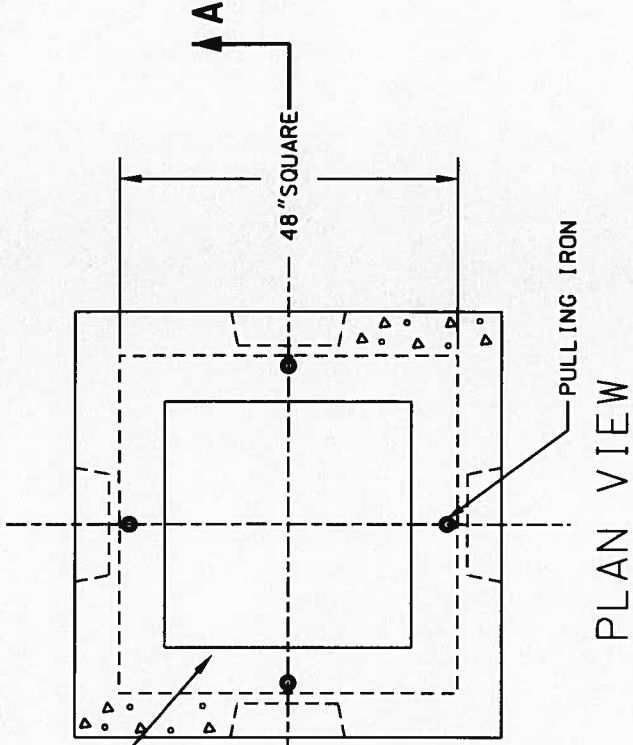
PULL IRON  
OPPOSITE EACH  
KNOCKOUT

PRECAST REINFORCED SLAB  
5' X 5' X 5" (Min. Dimensions)

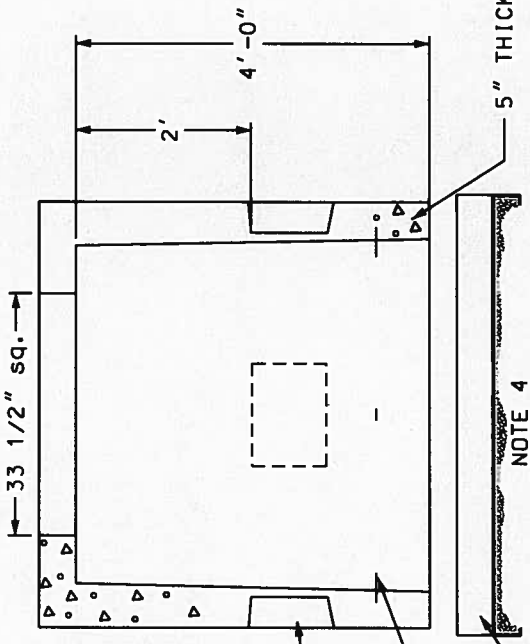
NOTE 4

XII. ILLUSTRATION No. 24





PLAN VIEW



SECTION A - A

NOTES:

- 1) HAND HOLE SHALL BE DESIGNED TO WITHSTAND H2B WHEEL LOADING WITH 6 INCHES OF OVERBURDEN. THE DESIGN SHALL ALSO COMPLY WITH THE STRENGTH REQUIREMENTS OF NATIONAL ELECTRICAL SAFETY CODE SECTION 323A. PROVIDE SHOP DRAWINGS STAMPED BY A STATE OF MAINE REGISTERED PROFESSIONAL ENGINEER UPON REQUEST.
- 2) MAY BE USED WITH CMP'S TYPE 'B' CASTING, CMP S/C 62-1780, 62-1785, & 62-1800. (MIN. ONE COURSE OF BRICK TO GRADE.), OR THREE PHASE SWITCH CABINET, S/C 62-1490.
- 3) HAND HOLE SHALL BE SET ON A SUITABLE GRAVEL BASE.

1 General Revision 01/15 BE  
 2 Change drawing number unrev BE

4' X 4' FOUNDATION WITH  
 32 1/2" SQUARE OPENING  
 FOR SWITCH CABINET  
 905A-8

4-10" X 6"  
 TAPERED  
 KNOCKOUTS  
 (1 EA. SIDE)

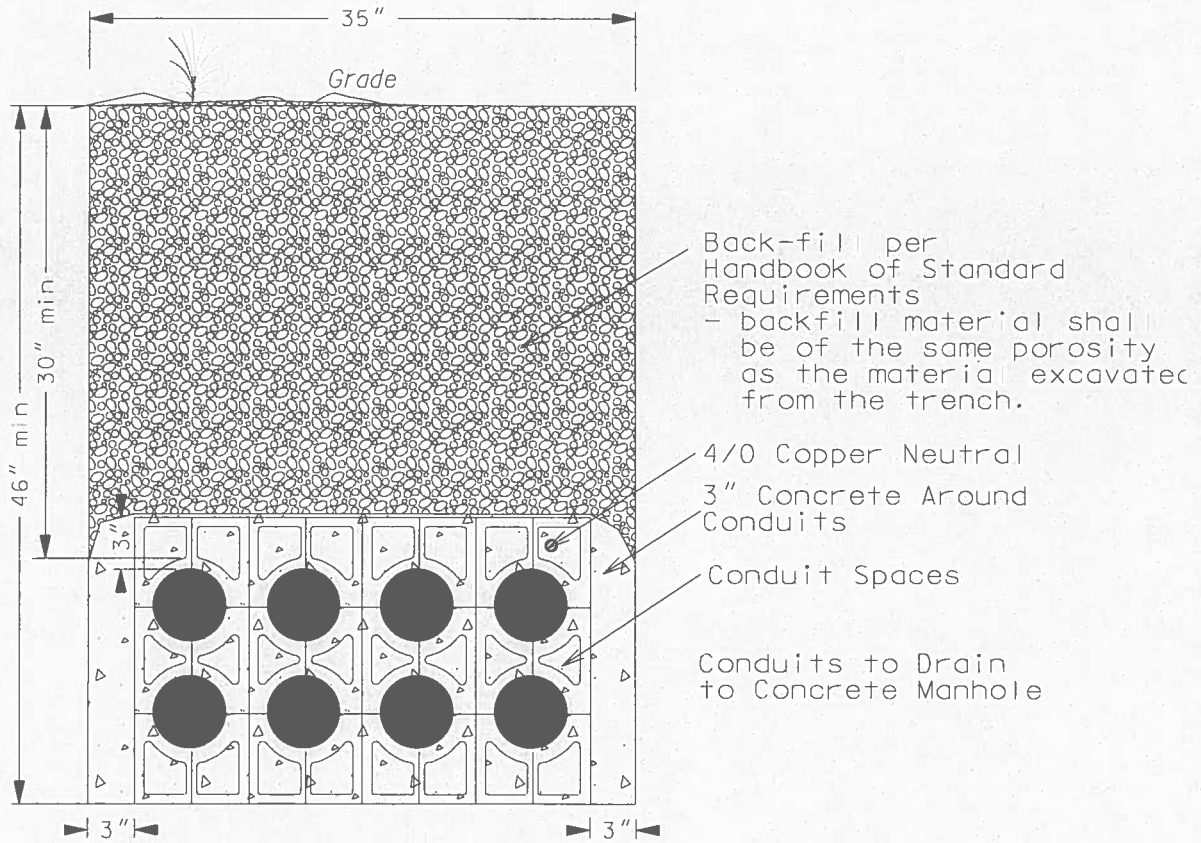
PULL IRON  
 OPPOSITE EACH  
 KNOCKOUT

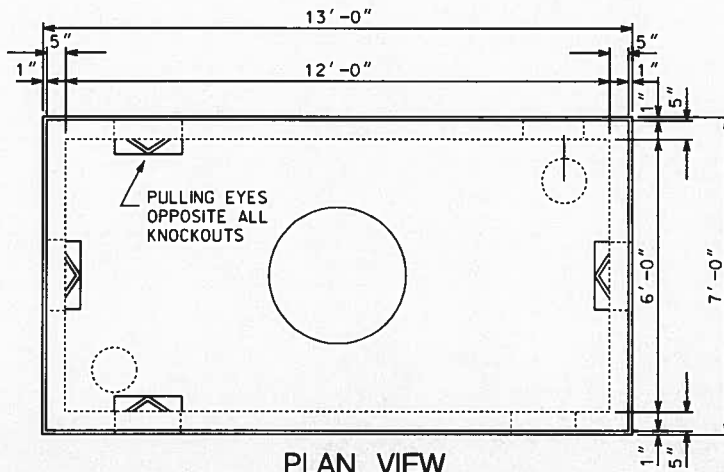
PRECAST REINFORCED SLAB  
 5' X 5' X 5" (Min. Dimensions)

NOTE 4

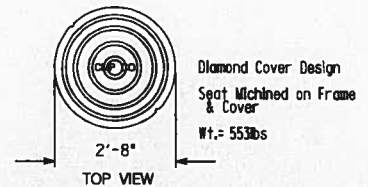


# 4x2 - 6 Inch Conduit Bank

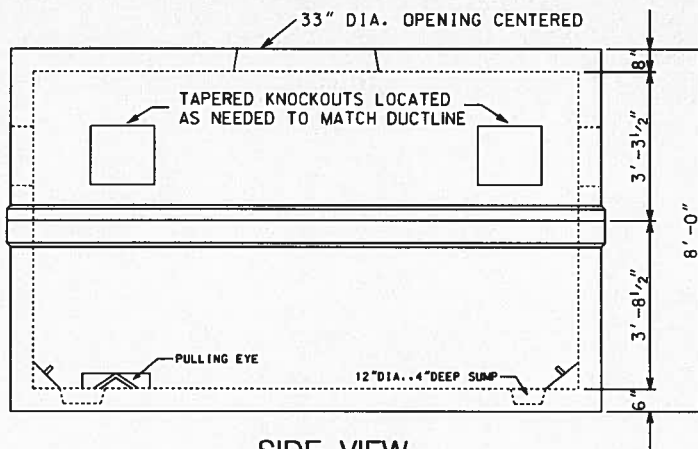




PLAN VIEW

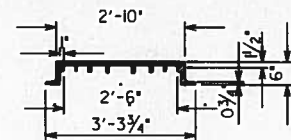


TOP VIEW



SIDE VIEW  
MANHOLE DETAIL

N.T.S.  
(Ref.Type: 38Y)



SECTION  
Brick as required to reach finished grade.

COVER DETAIL

N.T.S.

NOTES

- 1) Vault shall be designed to withstand H20 wheel loading with 6 inches of overburden. The design shall also comply with the strength requirements of National Electrical Safety Code Section 323A. Provide shop drawings stamped by a State of Maine Registered Professional Engineer upon Request
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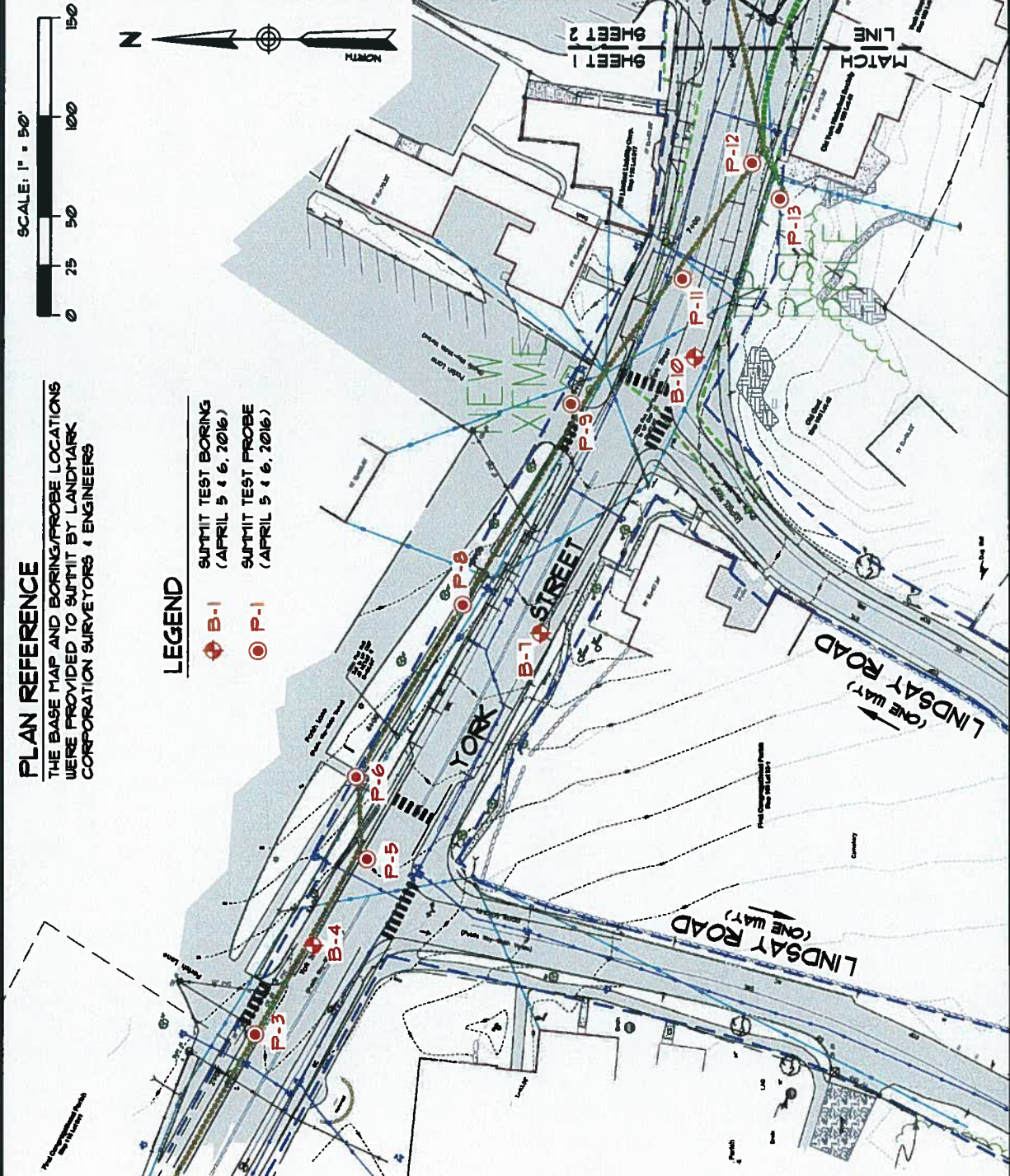
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BY	MSR	REC	
APPROVED	TSB	BAC	
APPROVED		I	
DATE	9/16/97	12/12/03	



PRECAST CONCRETE  
38Y MANHOLE

CENTRAL MAINE POWER CO.

905A-1



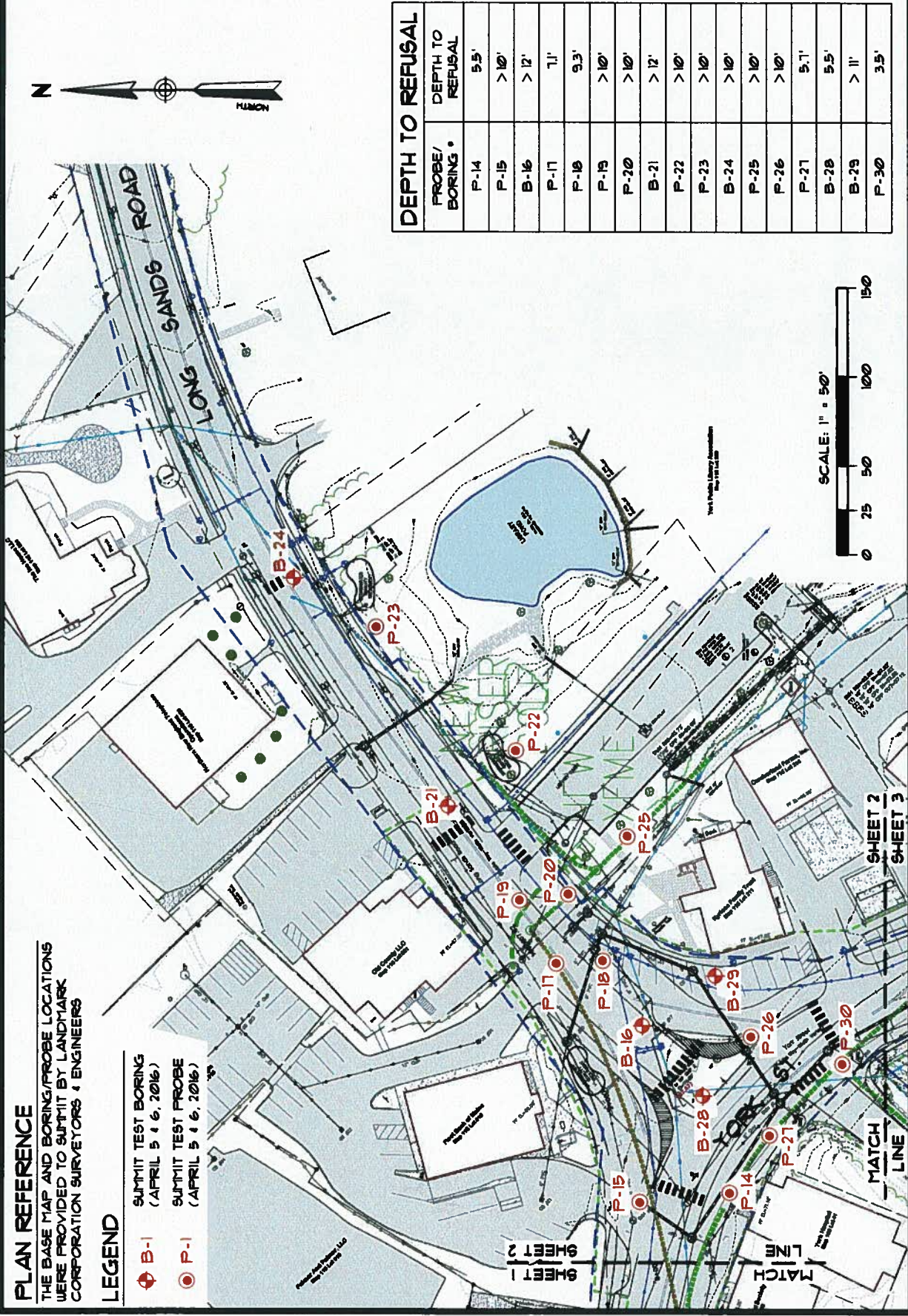
**PLAN REFERENCE**  
 THE BASE MAP AND BORING/PROBE LOCATIONS  
 WERE PROVIDED TO SUMMIT BY LANDMARK  
 CORPORATION SURVEYORS & ENGINEERS

- LEGEND**  
 (Red circle with crosshair) SUMMIT TEST BORING  
 (April 5 & 6, 2016)  
 (Red circle) SUMMIT TEST PROBE  
 (April 5 & 6, 2016)



PROBE/ BORING	DEPTH TO REFUSAL
P-1	> 10'
P-2	> 10'
P-3	> 10'
B-4	> 12'
P-5	> 10'
P-6	> 10'
B-7	12'
P-8	> 10'
P-9	> 10'
B-10	> 10'
P-11	> 10'
P-12	13'
P-13	10'

RISER  
 POLE





**PLAN REFERENCE**  
 THE BASE MAP AND BORING/PROBE LOCATIONS  
 WERE PROVIDED TO SUMMIT BY LANDMARK  
 CORPORATION SURVEYORS & ENGINEERS

- LEGEND**
- 
 B-1  
 SUMMIT TEST BORING  
 (APRIL 5 & 6, 2016)
  - 
 P-1  
 SUMMIT TEST PROBE  
 (APRIL 5 & 6, 2016)

PROBE/ BORING	DEPTH TO REFUSAL
P-14	5.5'
P-15	> 10'
B-16	> 12'
P-17	7.1'
P-18	9.3'
P-19	> 10'
P-20	> 10'
B-21	> 12'
P-22	> 10'
P-23	> 10'
B-24	> 10'
P-25	> 10'
P-26	> 10'
P-27	5.1'
B-28	5.5'
B-29	> 11'
P-30	3.5'



SHEET 1

SHEET 2

SHEET 3

MATCH LINE

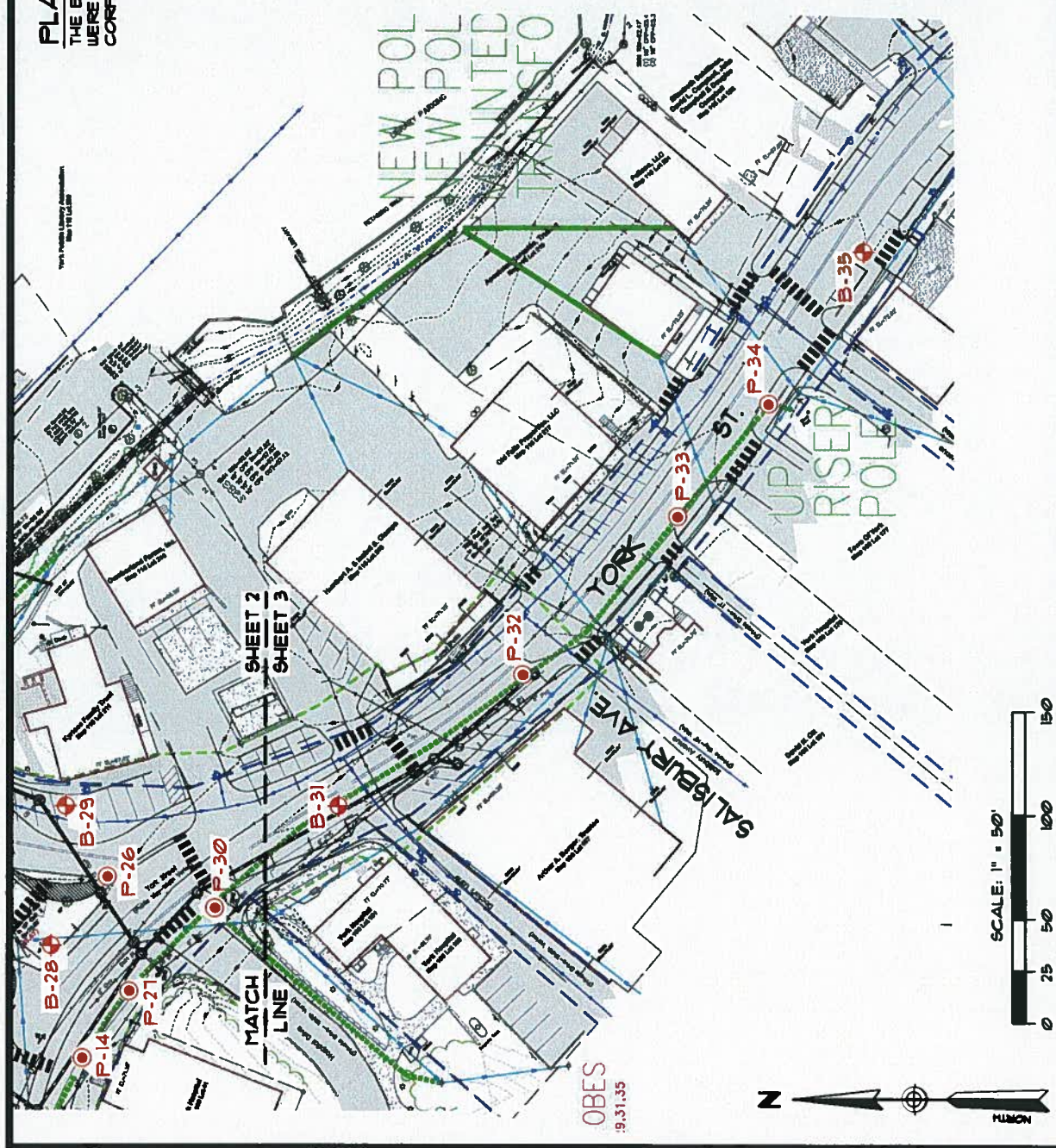
MATCH LINE



**PLAN REFERENCE**  
 THE BASE MAP AND BORING/PROBE LOCATIONS WERE PROVIDED TO SUMMIT BY LANDMARK CORPORATION SURVEYORS & ENGINEERS

**LEGEND**  
 SUMMIT TEST BORING (APRIL 5 & 6, 2016)  
 SUMMIT TEST PROBE (APRIL 5 & 6, 2016)

PROBE/BORING #	DEPTH TO REFUSAL
P-14	5.5'
P-26	> 10'
P-27	5.1'
B-28	5.5'
B-29	> 11'
P-30	3.5'
B-31	> 12'
P-32	1.5'
P-33	5.2'
P-34	1.0'
B-35	2.9'



OBES  
 9.31.35





**Exploration Summary Table (1 of 3)**

Project Name: York Village Revitalization  
 Location: York Village, ME

14032  
 4/5/16 to 4/6/16

Exploration No.	Bedrock Depth (ft)	Pavement Thickness (in)	Gravel Thickness	Gravel Description	Subgrade Description	Groundwater Depth (ft)	Notes
P-1	> 10'	10"	10"	Brown Sandy GRAVEL, little Silt, trace Clay, humid, compact, GP-GM	Olive brown SILT, little Sand, trace Gravel and Clay, mottled, ML	3.7'	-
P-2	> 10'	7"	4"	Black Sandy GRAVEL, little to some Silt, humid to moist, loose, GP-GM	Light brown SILT, little Sand, trace Gravel and Clay, ML	7.0'	-
P-3	> 10'	11"	18"	Brown to tan Gravelly SAND, little to some Silt, humid, compact, SP-SM	similar to Gravel Description, Brick pieces directly below gravel	5.9'	-
B-4	> 12'	8"	8"	Brown Gravelly SAND, little Silt, compact, humid, SW-SM	Olive brown SILT, little Sand, trace Gravel and Clay, mottled, ML	6.9'	Grain Size Analysis on Gravel Sample
P-5	> 10'	12"	20"	Brown to tan Gravelly SAND, little to some Silt, humid, compact, SP-SM	similar to Gravel Description, Cobblely drilling	NE	-
P-6	> 10'	4.3"	6"	Dark brown Gravelly SAND, trace to little Silt, trace Clay, humid to moist, SP-SM	Light brown SAND (Native), little Silt, trace Gravel, Cobble at 9'	NE	Performed in Sidewalk
B-7	7.2'	8"	12"	Brown Gravelly SAND, little Silt, compact, humid, SW-SM	similar to Gravel Description	NE	-
P-8	> 10'	4.3"	6"	Dark brown Gravelly SAND, trace to little Silt, trace Clay, humid to moist, SP-SM	Dark brown fine Sandy SILT (Old Topsoil) at 28" depth	NE	Performed in Sidewalk
P-9	> 10'	7"	16"	Brown GRAVEL, little Sand and Silt, humid, compact, GP	similar to Gravel Description, Cobblely drilling	NE	-
B-10	> 10'	9"	12"	Brown Gravelly SAND, little Silt, compact, humid, SW-SM	similar to Gravel Description, crushed Rock Fill	NE	Grain Size Analysis on Gravel Sample
P-11	> 10'	10"	28"	Dark brown Gravelly SAND, little Silt, trace Clay, humid to moist, SP-SM	Brown Silty SAND, little Gravel, Gravels/Cobbles during drilling	NE	-
P-12	1.3'	8"	7"	Brown GRAVEL, little Sand and Silt, humid, compact, GP	-	NE	-
P-13	1.0'	N/A	N/A	-	Dark brown fine Sandy SILT (Topsoil)	NE	Performed in Grass
P-14	5.5'	8"	15"	Brown Gravelly SAND, little Silt, compact, humid, SP-SM	Tan Silty SAND (Native), little Gravel, trace Clay, humid	NE	-
P-15	> 10'	10"	24"	Brown Gravelly SAND, little Silt, compact, humid, SP-SM	Light brown SAND, little to some Silt, dry	NE	-

**NOTES:**

- 1.) Explorations were performed using an AMS Power Probe drill rig. Gravel sampling was performed with a 3.5" diameter gravel punch/spl. sampler from the ground surface to a depth of 10 to 12 feet in the borings. Split spoon samplers were used to drill at depths greater than 3 feet. Split spoon samples were obtained in the borings at a depth of 5 to 7 feet and 10 to 12 feet in the borings.
- 2.) Borings are denoted with a "B" and probes are denoted with a "P"
- 3.) Boring/probe explorations were performed on April 5 and 6, 2016.
- 4.) Gravel description and classification is based on visual observation and the results of five gradation analyses performed on the gravel fill. Pavement thickness was measured during the explorations. Subgrade description based on visual observation from the gravel punch sampler and auger spoils.
- 5.) Groundwater depths were measured during the explorations and may not represent long-term conditions.
- 6.) N/A = Not applicable, NE = None encountered
- 7.) \* = Measurement of sidewalk pavement and gravel thicknesses





**Exploration Summary Table (2 of 3)**

Project Name: York Village Revitalization  
 Location: York Village, ME

I4052  
 4/5/16 to 4/6/16

Exploration No.	Bedrock Depth (ft)	Pavement Thickness (in)	Gravel Thickness	Gravel Description	Subgrade Description	Groundwater Depth (ft)	Notes
B-16	>12'	12"	0"	NE	Olive brown Clayey GRAVEL, little Sand and Silt, humid, GC	10.9'	-
P-17	7.1'	12"	10"	Brown Gravelly SAND, little Silt, trace Clay, compact, humid, SP-SM	Brown Silty SAND, little Gravel and Clay	NE	-
P-18	9.3'	12"	0"	NE	Brown Silty SAND, little Gravel and Clay	6.2'	-
P-19	>10'	12"	0"	NE	Dark Brown Sandy GRAVEL, some Cobbles, little Silt and Clay (Till)	8.5'	-
P-20	>10'	6"	6"	Brown Gravelly SAND, little Silt, moist, loose, SP	Dark Brown Sandy GRAVEL, some Cobbles, little Silt and Clay (Till)	9.0'	-
B-21	>12'	12"	12"	Light brown Gravelly SAND, little Silt, humid, compact, SP-SM	Tan-brown Silty fine SAND, slightly mottled, compact, wet, SM	5.7'	Grain Size Analysis on Gravel Sample
P-22	>10'	N/A	N/A	-	Reddish-brown Sandy SILT (Native), soft, moist to wet, little Clay	6.0'	Performed in Grass
P-23	>10'	N/A	N/A	-	Black Clayey SILT, organics, soft, wet, ML	3.4'	Performed in Grass
B-24	>10'	12"	12"	Light brown Silty GRAVEL, little to some Sand, trace Clay, humid, GM	Brown Silty SAND, little Gravel and Clay	5.4'	-
P-25	>10'	N/A	N/A	-	Reddish-brown Sandy SILT (Native), soft, moist to wet, little Clay	NE	Performed in Grass
P-26	>10'	14"	0"	NE	Tan Silty SAND, blasted rock in auger spoils	6.2'	-
P-27	5.7'	8"	1.5"	Brown Gravelly SAND, little Silt, trace Clay, compact, humid, SP-SM	Dark Brown Sandy GRAVEL, little Cobbles, little Silt and Clay (Till)	NE	-
B-28	5.5'	N/A	N/A	-	Dark brown fine Sandy SILT, little organics and rootlets (Topsoil)	NE	Performed in Grass (Intersection Median)
B-29	>11'	11"	12"	Light brown Gravelly SAND, little Silt, humid, compact, SW-SM	Olive brown Clayey SILT, mottled, trace fine Sand and Gravel	6.7'	Grain Size Analysis on Gravel Sample
P-30	3.5'	8"	20"	Brown Gravelly SAND, little Silt, moist, loose, SP-SM	similar to Gravel Description	NE	-

**NOTES:**

- 1.) Explorations were performed using an AMS Power Probe drilling. Gravel sampling was performed with a 3" diameter gravel punch/soil sampler from the pavement surface to a depth 3 feet. Solid stem augers were used to drill at depths greater than 3 feet. Split spoon samples were obtained in the borings at a depth of 5 to 7 feet and 10 to 12 feet in the borings.
- 2.) Borings are denoted with a "B" and probes are denoted with a "P"
- 3.) Boring/probe explorations were performed on April 5 and 6, 2016
- 4.) Gravel description and classification is based on visual observation and the results of five gradation analyses performed on the gravel fill. Pavement thickness was measured during the explorations. Subgrade description based on visual observation from the gravel punch sampler and auger spoils.
- 5.) Groundwater depths were measured during the explorations and may not represent long-term conditions.
- 6.) N/A = Not applicable, NE = None encountered
- 7.) \* = Measurement of sidewalk pavement and gravel thicknesses



**Exploration Summary Table (3 of 3)**

Project Name: York Village Revitalization  
 Location: York Village, ME

14052  
 4/5/16 to 4/6/16

Exploration No.	Bedrock Depth (ft)	Pavement Thickness (in)	Gravel Thickness	Gravel Description	Subgrade Description	Groundwater Depth (ft)	Notes
B-31	>12'	8"	20"	Brown Gravelly SAND, little Silt, humid, compact, SW-SM	Dark brown Silty SAND, slightly mottled, wet, dense	8.0'	Grain Size Analysis on Gravel Sample
P-32	7.5'	8"	12"	Light brown Sandy GRAVEL, little Silt, humid, compact, GP-GM	Dark brown Silty SAND, slightly mottled, wet, dense	5.0'	-
P-33	5.2	9"	12"	Brown Gravelly SAND, little Silt, humid, compact, SP-SM	Crushed rock and brick pieces	NE	-
P-34	7.0'	8"	6"	Brown SAND, little Gravel and Silt, humid, compact, SP-SM	Crushed rock overlying Clayey Silt (Glacial Till), wet, compact	4.0'	-
B-35	2.9	8"	0"	-	Brown Sandy SILT, moist to wet, trace Gravel	2.9'	-

**NOTES:**

- 1.) Explorations were performed using an AMS Power Probe drill rig. Gravel sampling was performed with a 3.5" diameter gravel punch/soil sampler from the pavement surface to a depth 3 feet. Solid stem augers were used to drill at depths greater than 3 feet. Split spoon samples were obtained in the borings at a depth of 5 to 7 feet and 10 to 12 feet in the borings.
- 2.) Borings are denoted with a "B" and probes are denoted with a "P"
- 3.) Boring/probe explorations were performed on April 5 and 6, 2016.
- 4.) Gravel description and classification is based on visual observation and the results of five gradation analyses performed on the gravel fill. Pavement thickness was measured during the explorations. Subgrade description based on visual observation from the gravel punch sampler and auger spoils.
- 5.) Groundwater depths were measured during the explorations and may not represent long-term conditions.
- 6.) N/A = Not applicable, NE = None encountered
- 7.) \* = Measurement of sidewalk pavement and gravel thicknesses



**SOIL BORING LOG**

Boring #: **B-4**  
 Project #: 14052  
 Sheet: 1 of 1  
 Chkd by:

Project: York Village Revitalization  
 Location: York St. and Long Sands Rd.  
 City, State: York Village, Maine

Drilling Co: Summit Geoengineering Services  
 Driller: C. Coolidge, P.E.  
 Summit Staff: M. Hardison, E.I.

Boring Elevation:  
 Reference:  
 Date started: 4/6/2016 Date Completed: 4/6/2016

DRILLING METHOD: Tracked Length: 24" SS  
 Model: AMS Power Probe Diameter: 2"OD/1.5"ID  
 Method: Solid Stem Auger Hammer: 140 lb  
 Hammer Style: Auto Method: ASTM D1586

ESTIMATED GROUND WATER DEPTH  

Date	Depth	Elevation	Reference
4/6/2016	6.9 ft.		Augers pulled

Depth (ft.)	SAMPLER					SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	No.	Pen/Rec (in)	Depth (ft)	blows/6"	N <sub>60</sub>			
1	GS-1	36/36	0 to 3	PUSH		8" Pavement, bottom 4" very loose		PAVEMENT
2						Brown Gravelly SAND, little Silt, compact, humid, SW-SM	Gravel = 37.9% Sand = 50.8% Silty/Clay = 11.3%	FILL
3								
4								
5								
6	S-1	24/12	5 to 7	*2		*due to loose caved soil at sample depth Olive brown SILT, little Sand, trace Gravel and Clay, mottled, ML		
7				10				
8				13				
9				12		Dark tan Silty SAND, slightly mottled, trace Gravel, humid, SM	Groundwater	MARINE NEARSHORE DEPOSIT
10								
11	S-2	24/14	10 to 12	10		same as above, trace Silt, little to some fine Gravel, wet, SP		
12				13				
13				10				
14				14				
15						End of Boring at 12.0 feet, no refusal		
16								
17								
18								
19								
20								
21								
22								

Granular Soils		Cohesive Soils		% Composition ASTM D2487	NOTES: PP = Pocket Penetrometer, MC = Moisture Content LL = Liquid Limit, PI = Plastic Index	Soil Moisture Condition
Blows/ft.	Density	Blows/ft.	Consistency			
0-4	V. Loose	<2	V. soft		<b>Bedrock Joints</b> Shallow = 0 to 35 degrees Dipping = 35 to 55 degrees Steep = 55 to 90 degrees  Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200	Dry: S = 0% Humid: S = 1 to 25% Damp: S = 26 to 50% Moist: S = 51 to 75% Wet: S = 76 to 99% Saturated: S = 100%
5-10	Loose	2-4	Soft	< 5% Trace		
11-30	Compact	5-8	Firm	5-15% Little		
31-50	Dense	9-15	Stiff	15-30% Some		
>50	V. Dense	16-30	V. Stiff	> 30% With		
		>30	Hard			





**SOIL BORING LOG**

Boring #: **B-7**

Project: York Village Revitalization  
 Location: York St. and Long Sands Rd.  
 City, State: York Village, Maine

Project #: 14052  
 Sheet: 1 of 1  
 Chkd by:

Drilling Co: Summit Geoenineering Services  
 Driller: C. Coolidge, P.E.  
 Summit Staff: M. Hardison, E.I.

Boring Elevation:  
 Reference:  
 Date started: 4/6/2016 Date Completed: 4/6/2016

DRILLING METHOD: Tracked  
 SAMPLER: Length: 24" SS  
 Vehicle: AMS Power Probe Diameter: 2"OD/1.5"ID  
 Model: Solid Stem Auger Hammer: 140 lb  
 Method: Hammer Style: Auto Method: ASTM D1586

ESTIMATED GROUND WATER DEPTH			
Date	Depth	Elevation	Reference
4/6/2016	-		none encountered

Depth (ft.)	SAMPLER					SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	No.	Pen/Rec (in)	Depth (ft)	blows/6"	N <sub>60</sub>			
1	GS-1	36/36	0 to 3	PUSH		8" Pavement, bottom 4" very loose		PAVEMENT
2						Brown Gravelly SAND, little Silt, compact, humid, SW-SM		FILL
3								
4								
5								
6	S-1	24/14	5 to 6.5	2		same as above (FILL)		
7				3				
8				8				
9				*		*Spoon sampler was stopped by driller at 6.5' depth		
10						End of Boring at 7.2 feet, Auger Refusal		PROBABLE BEDROCK
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

Granular Soils	Cohesive Soils		% Composition	NOTES:	Soil Moisture Condition
Blows/ft. Density	Blows/ft.	Consistency	ASTM D2487		
0-4 V. Loose	<2	V. soft		PP = Pocket Penetrometer, MC = Moisture Content	Dry: S = 0%
5-10 Loose	2-4	Soft	< 5% Trace	LL = Liquid Limit, PI = Plastic Index	Humid: S = 1 to 25%
11-30 Compact	5-8	Firm	5-15% Little	<b>Bedrock Joints</b>	Damp: S = 26 to 50%
31-50 Dense	9-15	Stiff	15-30% Some	Shallow = 0 to 35 degrees	Moist: S = 51 to 75%
>50 V. Dense	16-30	V. Stiff	> 30% With	Dipping = 35 to 55 degrees	Wet: S = 76 to 99%
	>30	Hard		Steep = 55 to 90 degrees	Saturated: S = 100%
				Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches	
				Gravel = < 3 inch and > No 4, Sand = < No 4 and > No 200, Silt/Clay = < No 200	



### SOIL BORING LOG

Boring #: **B-10**  
 Project #: 14052  
 Sheet: 1 of 1  
 Chkd by:

Project: York Village Revitalization  
 Location: York St. and Long Sands Rd.  
 City, State: York Village, Maine

Drilling Co: Summit Geoengeering Services  
 Driller: C. Coolidge, P.E.  
 Summit Staff: M. Hardison, E.I.

Boring Elevation:  
 Reference:  
 Date started: 4/6/2016 Date Completed: 4/6/2016

**DRILLING METHOD**  
 Vehicle: Tracked  
 Model: AMS Power Probe  
 Method: Solid Stem Auger  
 Hammer Style: Auto

**SAMPLER**  
 Length: 24" SS  
 Diameter: 2"OD/1.5"ID  
 Hammer: 140 lb  
 Method: ASTM D1586

ESTIMATED GROUND WATER DEPTH			
Date	Depth	Elevation	Reference
4/6/2016	-		none encountered

Depth (ft.)	SAMPLER					SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	No.	Pen/Rec (In)	Depth (ft)	blows/6"	N <sub>60</sub>			
1	GS-1	36/36	0 to 3	PUSH		9" Pavement, bottom 4" very loose		PAVEMENT
2						Brown Gravelly SAND, little Silt, compact, humid, SW-SM	Gravel = 48.5% Sand = 45.3% Silt/Clay = 6.2%	FILL
3						Solid stem augers advanced to 5' depth, hole caved in close to ground surface. Augers advanced to 10' depth, hole caved to approximately 5' depth, disturbed spoon sample collected: * = disturbed blow count		
4								
5								
6	DS-1	24/2	5 to 7	*3				
7				*4		low recovery, similar to above (FILL), crushed rock pieces observed in hole		
8				*4				
9								
10						End of boring at 10.0 feet, no refusal		
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

Granular Soils		Cohesive Soils		% Composition ASTM D2487	NOTES: PP = Pocket Penetrometer, MC = Moisture Content LL = Liquid Limit, PI = Plastic Index	Soil Moisture Condition
Blows/ft.	Density	Blows/ft.	Consistency			
0-4	V. Loose	<2	V. soft		<b>Bedrock Joints</b> Shallow = 0 to 3S degrees Dipping = 35 to 55 degrees Steep = 55 to 90 degrees  Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200	Dry: S = 0% Humid: S = 1 to 25% Damp: S = 26 to 50% Moist: S = 51 to 75% Wet: S = 76 to 99% Saturated: S = 100%
5-10	Loose	2-4	Soft	< 5% Trace		
11-30	Compact	5-8	Firm	5-15% Little		
31-50	Dense	9-15	Stiff	15-30% Some		
>50	V. Dense	16-30	V. Stiff	> 30% With		
		>30	Hard			





**SOIL BORING LOG**

Boring #: **B-16**  
 Project #: 14052  
 Sheet: 1 of 1  
 Chkd by:

Project: York Village Revitalization  
 Location: York St. and Long Sands Rd.  
 City, State: York Village, Maine

Drilling Co: Summit Geoengineering Services  
 Driller: C. Coolidge, P.E.  
 Summit Staff: M. Hardison, E.I.

Boring Elevation:  
 Reference:  
 Date started: 4/5/2016 Date Completed: 4/5/2016

DRILLING METHOD: Tracked  
 SAMPLER: Length: 24" SS  
 Vehicle: AMS Power Probe Diameter: 2"OD/1.5"ID  
 Model: Solid Stem Auger Hammer: 140 lb  
 Method: Auto Method: ASTM D1586  
 Hammer Style:

ESTIMATED GROUND WATER DEPTH			
Date	Depth	Elevation	Reference
4/5/2016	10.9 ft.		Augers pulled

Depth (ft.)	SAMPLER					SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	No.	Pen/Rec (in)	Depth (ft)	blows/6"	N <sub>60</sub>			
1	GS-1	36/36	0 to 3	PUSH		12" Pavement, bottom 6" very loose		PAVEMENT
2						Olive brown Clayey GRAVEL, little Sand and Silt, humid, GC		FILL
3								
4								
5								
6	S-1	24/16	5 to 7	9		Olive brown to dark brown Gravelly SAND, little Silt, trace Clay, mottled throughout, humid, compact, SM		
7				14				
8				14				
9				18				
10								MARINE NEARSHORE DEPOSIT
11	S-2	24/18	10 to 12	12		Dark tan SAND, little fine to medium Gravel and Silt, wet, compact, SP	Groundwater	
12				13				
13				12				
14				8		End of Boring at 12.0 feet, no refusal		
15								
16								
17								
18								
19								
20								
21								
22								

Granular Soils		Cohesive Soils		% Composition ASTM D2487	NOTES: PP = Pocket Penetrometer, MC = Moisture Content LL = Liquid Limit, PI = Plastic Index	Soil Moisture Condition Dry: S = 0% Humid: S = 1 to 25% Damp: S = 26 to 50% Moist: S = 51 to 75% Wet: S = 76 to 99% Saturated: S = 100%
Blows/ft.	Density	Blows/ft.	Consistency			
0-4	V. Loose	<2	V. soft		<b>Bedrock Joints</b> Shallow = 0 to 35 degrees Dipping = 35 to 55 degrees Steep = 55 to 90 degrees  Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches Gravel = < 3 inch and > No 4, Sand = < No 4 and > No 200, Silt/Clay = < No 200	
5-10	Loose	2-4	Soft	< 5% Trace		
11-30	Compact	5-8	Firm	5-15% Little		
31-50	Dense	9-15	Stiff	15-30% Some		
>50	V. Dense	16-30	V. Stiff	> 30% With		
		>30	Hard			





**SOIL BORING LOG**

Boring #: **B-21**  
 Project #: 14052  
 Sheet: 1 of 1  
 Chkd by:

Project: York Village Revitalization  
 Location: York St. and Long Sands Rd.  
 City, State: York Village, Maine

Drilling Co: Summit Geoengeering Services  
 Driller: C. Cooldge, P.E.  
 Summit Staff: M. Hardison, E.I.

Boring Elevation:  
 Reference:  
 Date started: 4/5/2016 Date Completed: 4/5/2016

**DRILLING METHOD**  
 Vehicle: Tracked  
 Model: AMS Power Probe  
 Method: Solid Stem Auger  
 Hammer Style: Auto

**SAMPLER**  
 Length: 24" SS  
 Diameter: 2"OD/1.5"ID  
 Hammer: 140 lb  
 Method: ASTM D1586

**ESTIMATED GROUND WATER DEPTH**

Date	Depth	Elevation	Reference
4/5/2016	5.7 ft.		Augers pulled

Depth (ft.)	SAMPLER					SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	No.	Pen/Rec (in)	Depth (ft)	blows/6"	N <sub>60</sub>			
1	GS-1	36/36	0 to 3	PUSH		12" Pavement, bottom 4" very loose		PAVEMENT
2						Light brown Gravelly SAND, little Silt, humid, compact, S	Gravel = 31.5% Sand = 57.6% Silt/Clay = 10.9%	FILL
3								
4								
5	S-1	24/12	5 to 7	4		Tan-brown Silty fine SAND, slightly mottled, compact, wet, SM	Groundwater	MARINE NEARSHORE DEPOSIT
6				4				
7				9				
8				11				
9								
10								
11	S-2	24/20	10 to 12	9		same as above, dense		
12				15				
13				24				
14				26				
15						End of Boring at 12.0 feet, no refusal		
16								
17								
18								
19								
20								
21								
22								

Granular Soils		Cohesive Soils		% Composition ASTM D2487	NOTES: PP = Pocket Penetrometer, MC = Moisture Content LL = Liquid Limit, PI = Plastic Index	Soil Moisture Condition
Blows/ft.	Density	Blows/ft.	Consistency			
0-4	V. Loose	<2	V. soft		<b>Bedrock Joints</b> Shallow = 0 to 35 degrees Dipping = 35 to 55 degrees Steep = 55 to 90 degrees  Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200	Dry: S = 0%
5-10	Loose	2-4	Soft	< 5% Trace		Humid: S = 1 to 25%
11-30	Compact	5-8	Firm	5-15% Little		Damp: S = 26 to 50%
31-50	Dense	9-15	Stiff	15-30% Some		Moist: S = 51 to 75%
>50	V. Dense	16-30	V. Stiff	> 30% With		Wet: S = 76 to 99%
		>30	Hard		Saturated: S = 100%	



**SOIL BORING LOG**

Boring #: **B-24**

Project: York Village Revitalization  
 Location: York St. and Long Sands Rd.  
 City, State: York Village, Maine

Project #: 14052  
 Sheet: 1 of 1  
 Chkd by:

Drilling Co: Summit Geoeengineering Services  
 Driller: C. Coolidge, P.E.  
 Summit Staff: M. Hardison, E.I.

Boring Elevation:  
 Reference:  
 Date started: 4/5/2016 Date Completed: 4/5/2016

DRILLING METHOD	SAMPLER
Vehicle: Tracked	Length: 24" SS
Model: AMS Power Probe	Diameter: 2"OD/1.5"ID
Method: Solid Stem Auger	Hammer: 140 lb
Hammer Style: Auto	Method: ASTM D1586

ESTIMATED GROUND WATER DEPTH			
Date	Depth	Elevation	Reference
4/5/2016	5.4 ft.		Augers pulled

Depth (ft.)	SAMPLE					Geological/ Test Data	Geological Stratum
	No.	Pen/Rec (in)	Depth (ft)	blows/6"	N <sub>60</sub>		
1	GS-1	36/36	0 to 3	PUSH		12" Pavement, bottom 6" very loose	PAVEMENT
2						Light brown Silty GRAVEL, little to some Sand, trace Clay, humid, GM	FILL
3						Brown Silty SAND, little Gravel and Clay	
4							
5							
6	S-1	24/12	5 to 7	6		Dark brown Silty SAND, trace to little Gravel, compact, damp, SM	Groundwater
7				13			
8				16			
9				11			
10						could not sample due to soil cave-in	
11						End of Boring at 10.0 feet, no refusal	
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

Granular Soils		Cohesive Soils		% Composition ASTM D2487	NOTES: PP = Pocket Penetrometer, MC = Moisture Content LL = Liquid Limit, PI = Plastic Index	Soil Moisture Condition
Blows/ft.	Density	Blows/ft.	Consistency			
0-4	V. Loose	<2	V. soft		<b>Bedrock Joints</b> Shallow = 0 to 35 degrees Dipping = 35 to 55 degrees Steep = 55 to 90 degrees  Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches Gravel = < 3 inch and > No 4, Sand = < No 4 and > No 200, Silt/Clay = < No 200	Dry: S = 0%
5-10	Loose	2-4	Soft	< 5% Trace		Humid: S = 1 to 25%
11-30	Compact	5-8	Firm	5-15% Little		Damp: S = 26 to 50%
31-50	Dense	9-15	Stiff	15-30% Some		Moist: S = 51 to 75%
>50	V. Dense	16-30	V. Stiff	> 30% With		Wet: S = 76 to 99%
		>30	Hard			Saturated: S = 100%





### SOIL BORING LOG

Boring #: **B-28**

Project: York Village Revitalization  
 Location: York St. and Long Sands Rd.  
 City, State: York Village, Maine

Project #: 14052  
 Sheet: 1 of 1  
 Chkd by:

Drilling Co: Summit Geoengeering Services  
 Driller: C. Coolidge, P.E.  
 Summit Staff: M. Hardison, E.I.

Boring Elevation:  
 Reference:  
 Date started: 4/6/2016 Date Completed: 4/6/2016

DRILLING METHOD	SAMPLER
Vehicle: Tracked	Length: 24" SS
Model: AMS Power Probe	Diameter: 2"OD/1.5"ID
Method: Solid Stem Auger	Hammer: 140 lb
Hammer Style: Auto	Method: ASTM D1586

ESTIMATED GROUND WATER DEPTH			
Date	Depth	Elevation	Reference
4/6/2016	-		none encountered

Depth (ft.)	SAMPLER					SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	No.	Pen/Rec (In)	Depth (ft)	blows/6"	N <sub>60</sub>			
1				1		Dark brown fine Sandy SILT, little organics and rootlets, moist, very loose, ML		TOPSOIL
				1				
				1				
2				2				FILL or GLACIAL TILL
3								
4								
5								
6	S-2	24/1	5 to 7	50/3"	Mottled Glacial Till and Rock Fragments in spoon tip			
7					End of Boring at 5.5 feet, Auger Refusal			PROBABLE BEDROCK
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

Granular Soils		Cohesive Soils		% Composition ASTM D2487	NOTES: PP = Pocket Penetrometer, MC = Moisture Content LL = Liquid Limit, PI = Plastic Index	Soil Moisture Condition
Blows/ft. Density		Blows/ft.	Consistency			
0-4	V. Loose	<2	V. soft		<b>Bedrock Joints</b> Shallow = 0 to 35 degrees Dipping = 35 to 55 degrees Steep = 55 to 90 degrees  Boulders = diameter > 12 Inches, Cobbles = diameter < 12 inches and > 3 inches Gravel = < 3 inch and > No 4, Sand = < No 4 and > No 200, Silt/Clay = < No 200	Dry: S = 0% Humid: S = 1 to 25% Damp: S = 26 to 50% Moist: S = 51 to 75% Wet: S = 76 to 99% Saturated: S = 100%
5-10	Loose	2-4	Soft	< 5% Trace		
11-30	Compact	5-8	Firm	5-15% Little		
31-50	Dense	9-15	Stiff	15-30% Some		
>50	V. Dense	16-30	V. Stiff	> 30% With		
		>30	Hard			





### SOIL BORING LOG

Boring #: **B-29**

Project: York Village Revitalization  
 Location: York St. and Long Sands Rd.  
 City, State: York Village, Maine

Project #: 14052  
 Sheet: 1 of 1  
 Chkd by:

Drilling Co: Summit Geoengineering Services  
 Driller: C. Coolidge, P.E.  
 Summit Staff: M. Hardison, E.I.

Boring Elevation:  
 Reference:  
 Date started: 4/5/2016 Date Completed: 4/5/2016

**DRILLING METHOD**  
 Vehicle: Tracked  
 Model: AMS Power Probe  
 Method: Solid Stem Auger  
 Hammer Style: Auto

**SAMPLER**  
 Length: 24" SS  
 Diameter: 2"OD/1.5"ID  
 Hammer: 140 lb  
 Method: ASTM D1586

ESTIMATED GROUND WATER DEPTH			
Date	Depth	Elevation	Reference
4/5/2016	6.7 ft.		Augers pulled

Depth (ft.)	SAMPLER					SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	No.	Pen/Rec (in)	Depth (ft)	blows/6"	N <sub>60</sub>			
1	GS-1	36/36	0 to 3	PUSH		11" Pavement, bottom 4" very loose		PAVEMENT
2						Light brown Gravelly SAND, little Silt, humid, compact, SW-SM	Gravel = 40.7% Sand = 49.3% Silt/Clay = 10.0%	FILL
3						↓ Olive brown Clayey SILT, mottled, trace fine Sand and Gravel		
4								
5								
6	S-1	24/14	5 to 7	6		Olive brown Silty SAND, little Gravel, trace Clay, mottled, moist to wet, SM		MARINE NEARSHORE DEPOSIT
7				10				
8				13				
9				16			Groundwater	
10								
11	S-2	24/20	10 to 11	10		Tan Silty SAND, trace Gravel, wet, compact, SM		
12				11				
13						End of Boring at 11.0 feet, no refusal		
14								
15								
16								
17								
18								
19								
20								
21								
22								

Granular Soils		Cohesive Soils		% Composition ASTM D2487	NOTES: PP = Pocket Penetrometer, MC = Moisture Content LL = Liquid Limit, PI = Plastic Index	Soil Moisture Condition
Blows/ft.	Density	Blows/ft.	Consistency			
0-4	V. Loose	<2	V. soft	< 5% Trace 5-15% Little 15-30% Some > 30% With	<b>Bedrock Joints</b> Shallow = 0 to 35 degrees Dipping = 35 to 55 degrees Steep = 55 to 90 degrees	Dry: S = 0% Humid: S = 1 to 25% Damp: S = 26 to 50% Moist: S = 51 to 75% Wet: S = 76 to 99% Saturated: S = 100%
5-10	Loose	2-4	Soft			
11-30	Compact	5-8	Firm			
31-50	Dense	9-15	Stiff			
>50	V. Dense	16-30	V. Stiff			
		>30	Hard			

Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches  
 Gravel = < 3 inch and > No 4, Sand = < No 4 and > No 200, Silt/Clay = < No 200



**SOIL BORING LOG**

Boring #: **B-31**

Project: York Village Revitalization  
 Location: York St. and Long Sands Rd.  
 City, State: York Village, Maine

Project #: 14052  
 Sheet: 1 of 1  
 Chkd by:

Drilling Co: Summit Geoeengineering Services  
 Driller: C. Coolidge, P.E.  
 Summit Staff: M. Hardison, E.I.

Boring Elevation:  
 Reference:  
 Date started: 4/6/2016 Date Completed: 4/6/2016

**DRILLING METHOD**  
 Vehicle: Tracked  
 Model: AMS Power Probe  
 Method: Solid Stem Auger  
 Hammer Style: Auto

**SAMPLER**  
 Length: 24" SS  
 Diameter: 2"OD/1.5"ID  
 Hammer: 140 lb  
 Method: ASTM D1586

ESTIMATED GROUND WATER DEPTH			
Date	Depth	Elevation	Reference
4/6/2016	8.0 ft.		Augers pulled

Depth (ft.)	SAMPLER					SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	No.	Pen/Rec (In)	Depth (ft)	blows/6"	N <sub>60</sub>			
1	GS-1	36/36	0 to 3	PUSH		8" Pavement		PAVEMENT
2						Brown Gravelly SAND, little Silt, humid, compact, SW-SM	Gravel = 44.4% Sand = 47.7% Silt/Clay = 7.9%	FILL
3						Dark brown Silty SAND, slightly mottled, wet, dense		
4								
5								
6	S-1	24/20	5 to 7	10		same as above (FILL)		
7				13				
8				11				
9				12			Groundwater	
10								MARINE NEARSHORE DEPOSIT
11	S-2	24/20	10 to 12	6		Dark Silty SAND, wet, dense, slightly mottled, SM		
12				17				
13				20				
14				17		End of Boring at 12.0 feet, no refusal		
15								
16								
17								
18								
19								
20								
21								
22								

Granular Soils		Cohesive Soils		% Composition ASTM D2487	NOTES: PP = Pocket Penetrometer, MC = Moisture Content LL = Liquid Limit, PI = Plastic Index	Soil Moisture Condition
Blows/ft.	Density	Blows/ft.	Consistency			
0-4	V. Loose	<2	V. soft		<b>Bedrock Joints</b> Shallow = 0 to 35 degrees Dipping = 35 to 55 degrees Steep = 55 to 90 degrees  Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200	Dry: S = 0%
5-10	Loose	2-4	Soft	< 5% Trace		Humid: S = 1 to 25%
11-30	Compact	5-8	Firm	5-15% Little		Damp: S = 26 to 50%
31-50	Dense	9-15	Stiff	15-30% Some		Molst: S = 51 to 75%
>50	V. Dense	16-30	V. Stiff	> 30% With		Wet: S = 76 to 99%
		>30	Hard			Saturated: S = 100%





**SOIL BORING LOG**

Boring #: **B-35**  
 Project #: 14052  
 Sheet: 1 of 1  
 Chkd by:

Project: York Village Revitalization  
 Location: York St. and Long Sands Rd.  
 City, State: York Village, Maine

Drilling Co: Summit Geoenengineering Services  
 Driller: C. Coolidge, P.E.  
 Summit Staff: M. Hardison, E.I.

Boring Elevation:  
 Reference:  
 Date started: 4/6/2016 Date Completed: 4/6/2016

DRILLING METHOD: Tracked  
 SAMPLER: Length: 24" SS  
 Vehicle: AMS Power Probe Diameter: 2"OD/1.5"ID  
 Model: Solid Stem Auger Hammer: 140 lb  
 Method: Hammer Style: Auto Method: ASTM D1586

ESTIMATED GROUND WATER DEPTH			
Date	Depth	Elevation	Reference
4/6/2016	-		none encountered

Depth (ft.)	SAMPLER					SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	No.	Pen/Rec (In)	Depth (ft)	blows/6"	N <sub>60</sub>			
1	GS-1	36/36	0 to 3	PUSH		9" Pavement, bottom 4" very loose		PAVEMENT
2						Brown Sandy SILT, moist to wet, trace Gravel		FILL
3								
4						End of Boring at 2.9 feet, Sampler and Auger Refusal		PROBABLE BEDROCK
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

Granular Soils		Cohesive Soils		% Composition ASTM D2487	NOTES: PP = Pocket Penetrometer, MC = Moisture Content LL = Liquid Limit, PI = Plastic Index	Soil Moisture Condition
Blows/ft.	Density	Blows/ft.	Consistency			
0-4	V. Loose	<2	V. soft		<b>Bedrock Joints</b> Shallow = 0 to 35 degrees Dipping = 35 to 55 degrees Steep = 55 to 90 degrees  Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches Gravel = < 3 inch and > No 4, Sand = < No 4 and > No 200, Silt/Clay = < No 200	Dry: S = 0%
5-10	Loose	2-4	Soft	< 5% Trace		Humid: S = 1 to 25%
11-30	Compact	5-8	Firm	5-15% Little		Damp: S = 26 to 50%
31-50	Dense	9-15	Stiff	15-30% Some		Moist: S = 51 to 75%
>50	V. Dense	16-30	V. Stiff	> 30% With		Wet: S = 76 to 99%
		>30	Hard			Saturated: S = 100%





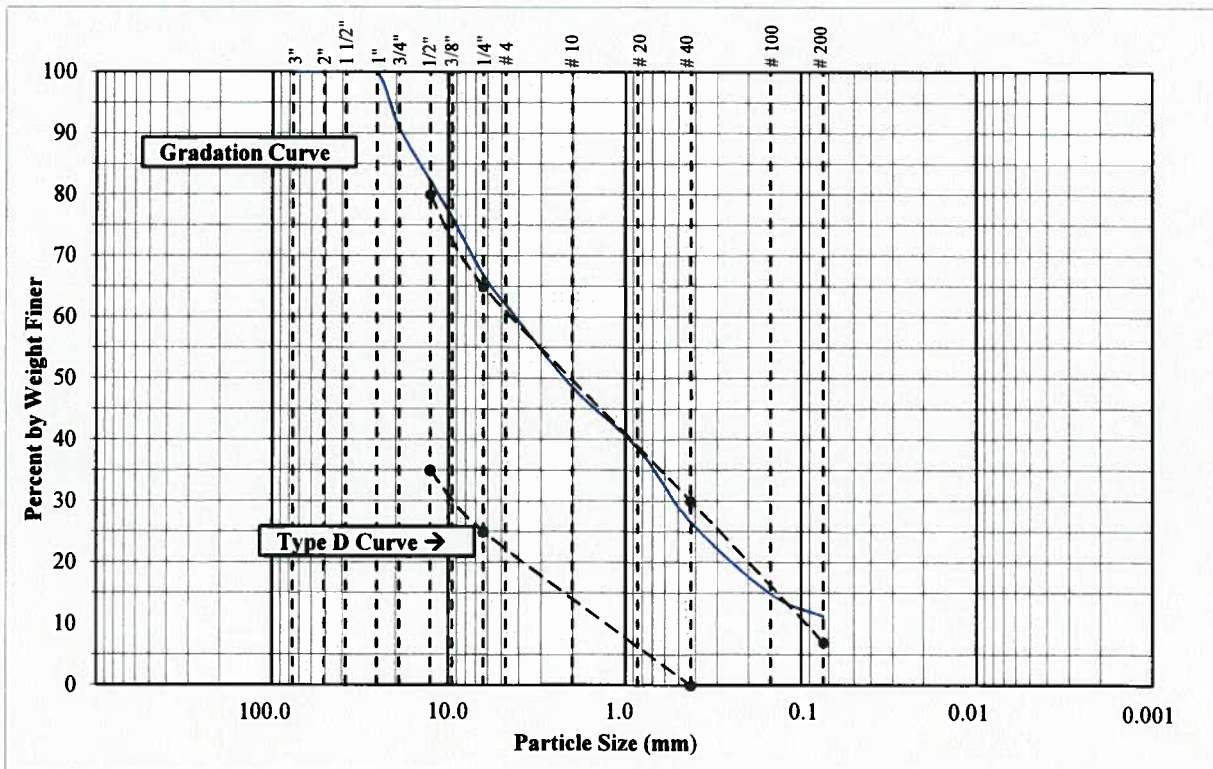
**GRAIN SIZE ANALYSIS - ASTM D422**

PROJECT NAME: York Revitalization Project  
 CLIENT: Milone & MacBroom, Inc.  
 SOURCE: Roadway fill  
 DATE: 4/11/2016

PROJECT NUMBER: 14052  
 SAMPLE NUMBER: B-4, GS-1  
 DESCRIPTION: Gravelly SAND, little Silt, SW-SM  
 TECHNICIAN: Erika Stewart, E.I.

**DATA**

PARTICLE SIZE mm	% BY WT FINER	MDOT 703.06 TYPE D
76.20 (3 in)	100.0	100
50.80 (2 in)	100.0	
38.10 (1-1/2 in)	100.0	
25.40 (1 in)	100.0	
19.05 (3/4 in)	90.9	
12.70 (1/2 in)	82.3	35 - 80
9.53 (3/8 in)	76.3	
6.35 (1/4 in)	66.9	25 - 65
4.75 (No. 4)	62.1	
2.00 (No. 10)	48.6	
0.85 (No. 20)	38.7	
0.43 (No. 40)	26.6	0 - 30
0.15 (No. 100)	14.9	
0.075 (No. 200)	11.3	0 - 7



REMARKS: Moisture Content = 5.1%



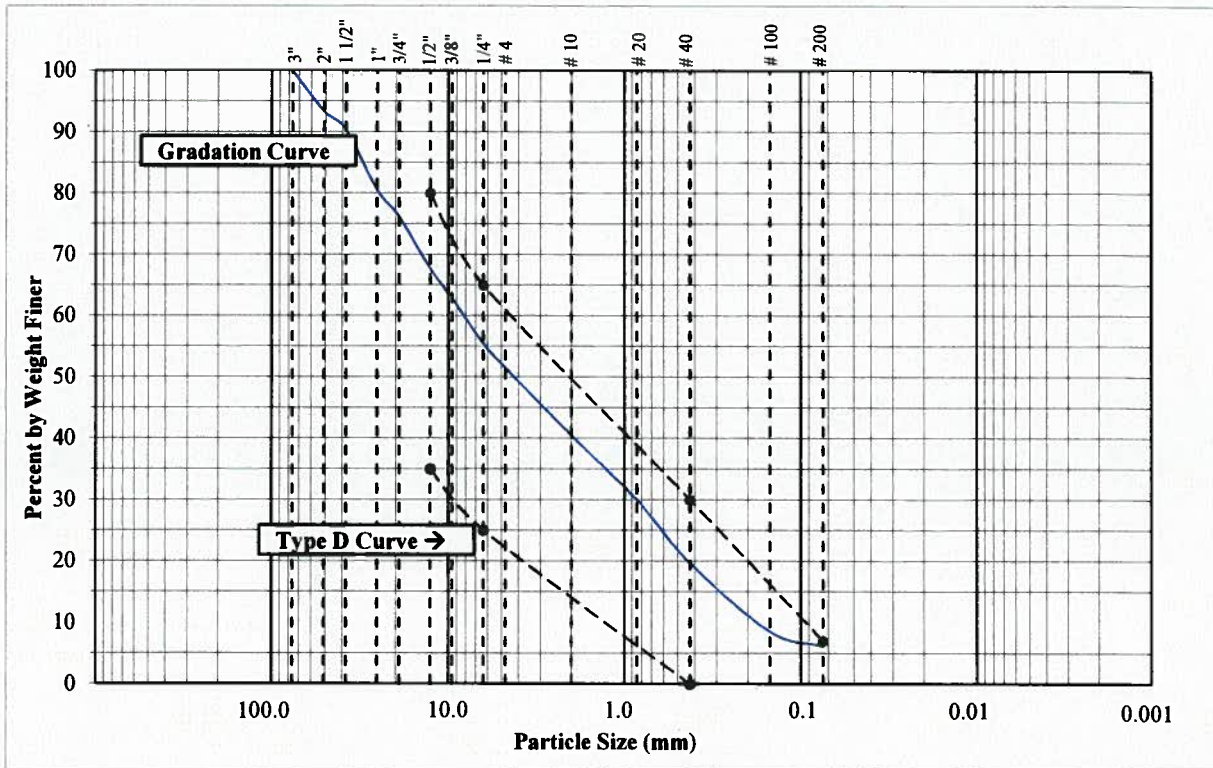
**GRAIN SIZE ANALYSIS - ASTM D422**

PROJECT NAME: York Revitalization Project  
 CLIENT: Milone & MacBroom, Inc.  
 SOURCE: Roadway fill  
 DATE: 4/12/2016

PROJECT NUMBER: 14052  
 SAMPLE NUMBER: B-10, GS-1  
 DESCRIPTION: Gravelly SAND, little Silt, SP-SM  
 TECHNICIAN: Erika Stewart, E.I.

**DATA**

PARTICLE SIZE mm	% BY WT FINER	MDOT 703.06 TYPE D
76.20 (3 in)	100.0	100
50.80 (2 in)	93.4	
38.10 (1-1/2 in)	90.4	
25.40 (1 in)	80.6	
19.05 (3/4 in)	76.2	
12.70 (1/2 in)	67.7	35 - 80
9.53 (3/8 in)	62.9	
6.35 (1/4 in)	55.5	25 - 65
4.75 (No. 4)	51.5	
2.00 (No. 10)	40.5	
0.85 (No. 20)	30.1	
0.43 (No. 40)	19.7	0 - 30
0.15 (No. 100)	8.6	
0.075 (No. 200)	6.2	0 - 7



REMARKS: Moisture Content = 5.8%



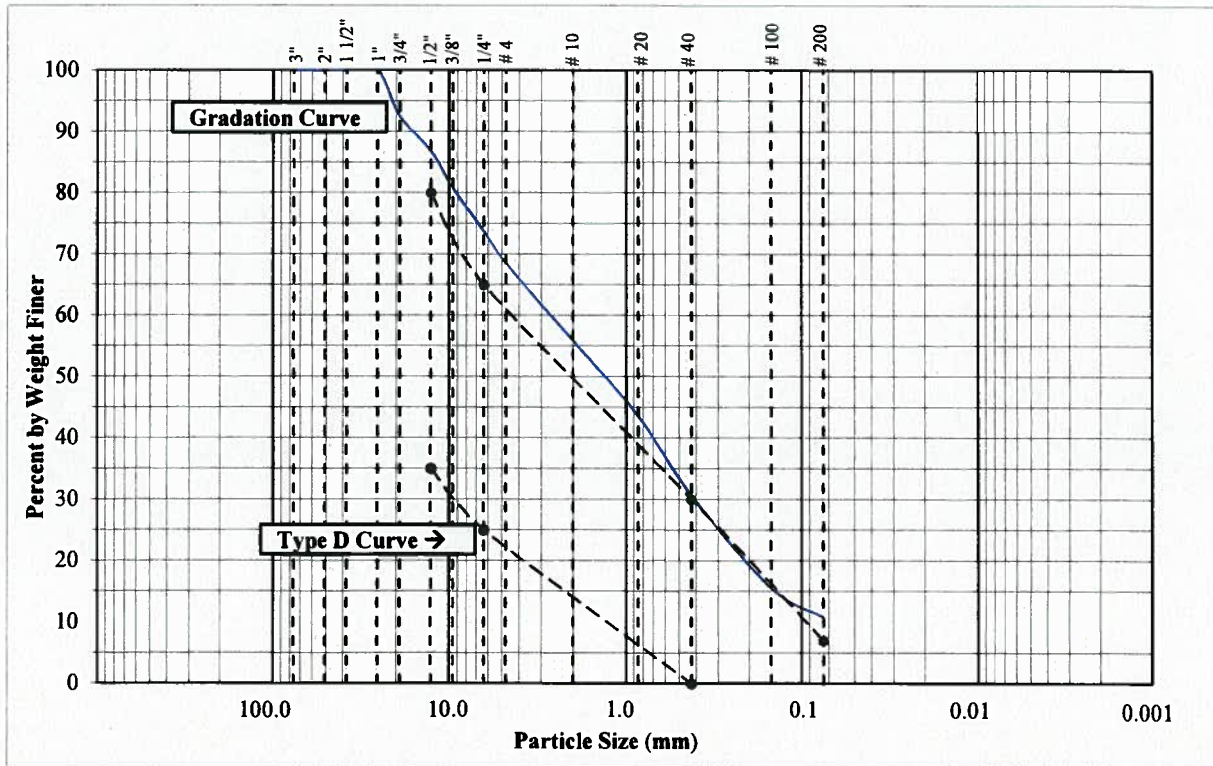
**GRAIN SIZE ANALYSIS - ASTM D422**

PROJECT NAME: York Revitalization Project  
 CLIENT: Milone & MacBroom, Inc.  
 SOURCE: Roadway fill  
 DATE: 4/12/2016

PROJECT NUMBER: 14052  
 SAMPLE NUMBER: B-21, GS-1  
 DESCRIPTION: Gravelly SAND, little Silt, SP-SM  
 TECHNICIAN: Erika Stewart, E.I.

**DATA**

PARTICLE SIZE mm	% BY WT FINER	MDOT 703.06 TYPE D
76.20 (3 in)	100.0	100
50.80 (2 in)	100.0	
38.10 (1-1/2 in)	100.0	
25.40 (1 in)	100.0	
19.05 (3/4 in)	92.5	
12.70 (1/2 in)	86.9	35 - 80
9.53 (3/8 in)	80.8	
6.35 (1/4 in)	73.8	25 - 65
4.75 (No. 4)	68.5	
2.00 (No. 10)	55.9	
0.85 (No. 20)	43.6	
0.43 (No. 40)	30.7	0 - 30
0.15 (No. 100)	15.6	
0.075 (No. 200)	10.9	0 - 7



REMARKS: Moisture Content = 6.8%





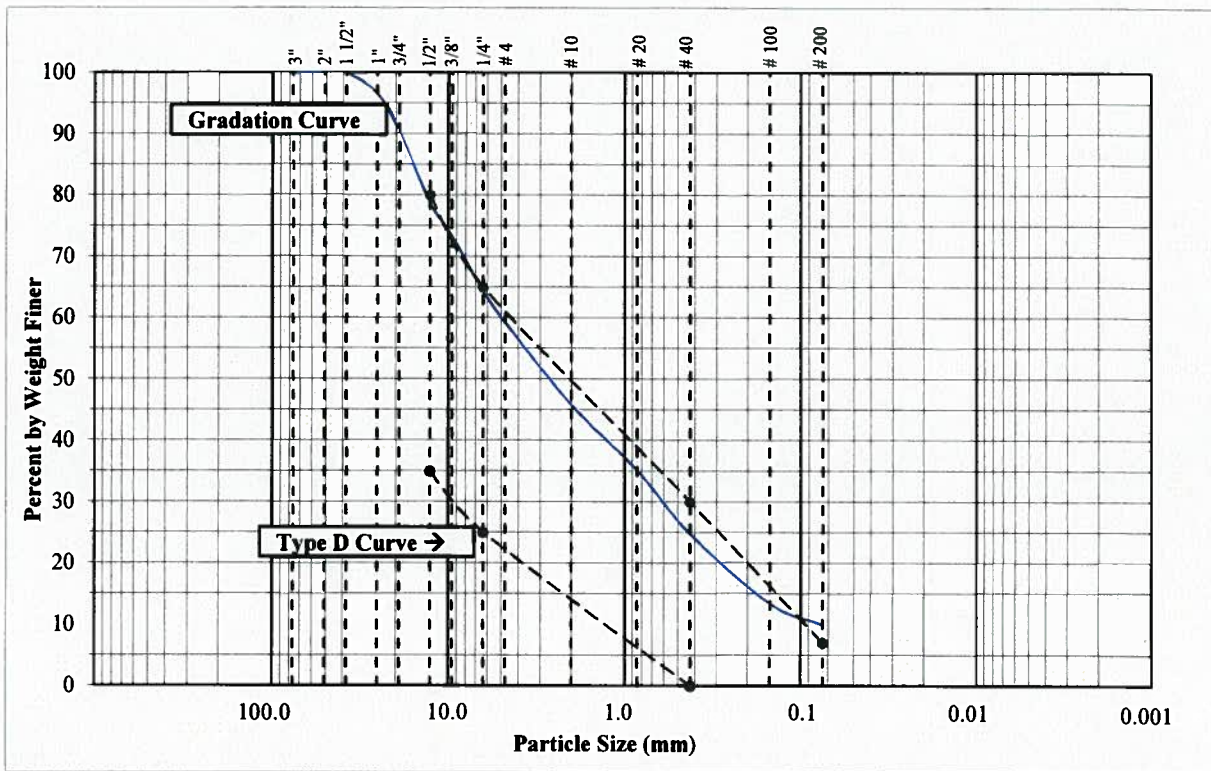
**GRAIN SIZE ANALYSIS - ASTM D422**

PROJECT NAME: York Revitalization Project  
 CLIENT: Milone & MacBroom, Inc.  
 SOURCE: Roadway fill  
 DATE: 4/12/2016

PROJECT NUMBER: 14052  
 SAMPLE NUMBER: B-29, GS-1  
 DESCRIPTION: Gravelly SAND, little Silt, SW-SM  
 TECHNICIAN: Erika Stewart, E.I.

**DATA**

PARTICLE SIZE mm	% BY WT FINER	MDOT 703.06 TYPE D
76.20 (3 in)	100.0	100
50.80 (2 in)	100.0	
38.10 (1-1/2 in)	100.0	
25.40 (1 in)	96.6	
19.05 (3/4 in)	90.5	
12.70 (1/2 in)	78.8	35 - 80
9.53 (3/8 in)	73.4	
6.35 (1/4 in)	64.4	25 - 65
4.75 (No. 4)	59.3	
2.00 (No. 10)	45.8	
0.85 (No. 20)	35.2	
0.43 (No. 40)	24.8	0 - 30
0.15 (No. 100)	13.5	
0.075 (No. 200)	10.0	0 - 7



REMARKS: Moisture Content = 14.5%, Soaked from rain not natural moisture content



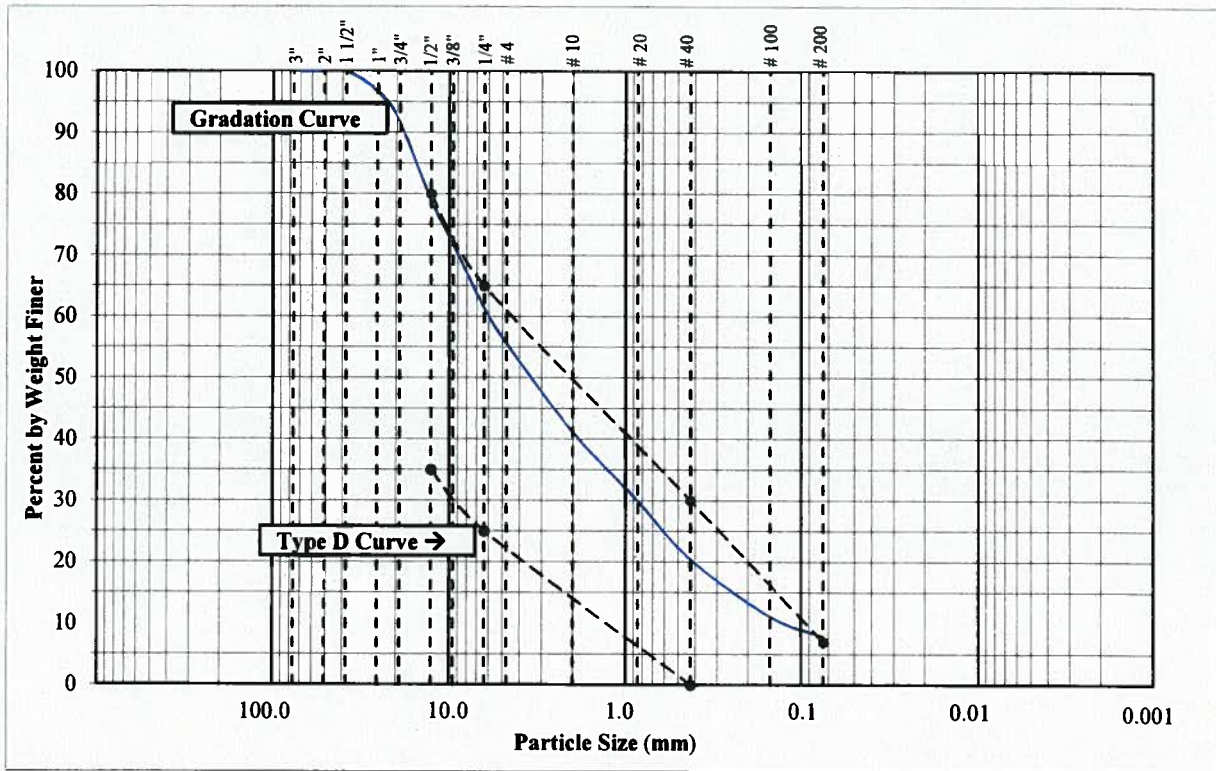
**GRAIN SIZE ANALYSIS - ASTM D422**

PROJECT NAME: York Revitalization Project  
 CLIENT: Milone & MacBroom, Inc.  
 SOURCE: Roadway fill  
 DATE: 4/12/2016

PROJECT NUMBER: 14052  
 SAMPLE NUMBER: B-31, GS-1  
 DESCRIPTION: Gravelly SAND, little Silt, SW-SM  
 TECHNICIAN: Erika Stewart, E.I.

**DATA**

PARTICLE SIZE mm	% BY WT FINER	MDOT 703.06 TYPE D
76.20 (3 in)	100.0	100
50.80 (2 in)	100.0	
38.10 (1-1/2 in)	100.0	
25.40 (1 in)	96.7	
19.05 (3/4 in)	91.6	
12.70 (1/2 in)	79.0	35 - 80
9.53 (3/8 in)	71.8	
6.35 (1/4 in)	61.4	25 - 65
4.75 (No. 4)	55.6	
2.00 (No. 10)	41.2	
0.85 (No. 20)	29.9	
0.43 (No. 40)	20.5	0 - 30
0.15 (No. 100)	11.2	
0.075 (No. 200)	7.9	0 - 7



REMARKS: Moisture Content = 6.7%





# LANDMARK CORPORATION

SURVEYORS & ENGINEERS

**\*\*IMMEDIATE RESPONSE REQUESTED\*\***

**RE: Maine DOT Project - York Village Revitalization Project**

February 3, 2017

Town/City: **York**  
Project WIN: **21904**  
Location: **York Village**

**Utility Coordinator:** Landmark Corporation Surveyors & Engineers, Michael J. Sabatini, P.E. – Coordinator  
219 Meadow Street  
Rockport, ME 04856  
Office: (207) 236-6757  
Fax: (207) 470-7020  
Cell: (207) 975-3886  
E-Mail: mike@landmarkmaine.com

Please complete the following short questionnaire and fax, e-mail or send via mail.

Utility: PUBLIC WORKS Date Form Submitted: 1/12/2018

1. Does the utility you represent presently have facilities within the project limits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. What type of facilities do you have in the project area? <u>STORM DRAINAGE</u>	<input checked="" type="checkbox"/> Underground <input type="checkbox"/> Aboveground
3. Pole Owner: <u>N/A</u> Attachees: _____	
4. Do you plan on installing any facilities within the project limits in the next 5 years?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Contact person for project coordination: Name: <u>JEAN LESSARD</u> Address: <u>186 YORK STREET</u> Tel: <u>(207) 363-1011</u> Cell: <u>(207) 891-7569</u> Fax No: <u>(207) 363-1012</u> E-mail: <u>JLESSARD@YORKMAINE.ORG</u>	
6. Contact person for construction: Name: _____ Address: <u>SAME AS ABOVE</u> Tel: _____ Fax No: _____ E-mail: _____	
7. Comments _____ _____ _____ _____	



**MASTER PLAN IMPROVEMENTS - PHASE 1**

YORK VILLAGE, MAINE

Opinion of Probable Design & Construction Costs.

Date: 8-Feb-17

Revised: 14-Mar-17

**Design Development - Phase 1 UG Utilities**

Estimated Hard Costs (Construction)						
DOT #	Item	Material	Quantity	Unit	Unit Cost	Subtotal
<b>Electric, Cable, Telecommunications - Civil/Sitework</b>						
	4x2 8-way 6" elec conduit bank & trenching	6" Sched 40 PVC Concrete encased	2000	lf	\$85.00	\$170,000.00
	9 - 4" Telecom conduits	4" Sched 40 PVC Concrete encased	2000	lf	\$30.00	\$60,000.00
	2 - 4" Cable TV conduits	4" Sched 40 PVC	2000	lf	\$6.00	\$12,000.00
	Conduit concrete encasement (elec & phone)	Concrete, flowable fill, unreinforced	668	cy	\$120.00	\$80,160.00
	Conduit & trenching to transformer foundations	2" Sched 40 PVC and trenching	200	lf	\$30.00	\$6,000.00
	Sawcut Pavement	Sawcut pavement	4400	lf	\$1.00	\$4,400.00
	Pavement Removal	Pavement removal (3" depth)	1380	sy	\$5.00	\$6,900.00
	Pavement Patch	3" Pavement Patch Trenches & MH Excavation	229	ton	\$200.00	\$45,800.00
	Electrical Manholes	Concrete, Excavation and Backfill	7	ea	\$12,600.00	\$88,200.00
	Telecommunications Manholes	Concrete, Excavation and Backfill	4	ea	\$12,600.00	\$50,400.00
	Cable TV Manholes	Concrete, Excavation and Backfill	7	ea	\$7,500.00	\$52,500.00
	Electrical Junction boxes	Concrete, Excavation and Backfill	3	ea	\$7,500.00	\$22,500.00
	3-Phase Transformer foundations	Concrete, Excavation and Backfill	2	ea	\$5,400.00	\$10,800.00
	1-Phase Transformer foundations	Concrete, Excavation and Backfill	6	ea	\$1,500.00	\$9,000.00
	<b>Electric - CMP</b>					<b>\$1,800,000.00</b>
	CMP	CMP (\$1.8 Million)	1	ls	\$1,800,000.00	\$1,800,000.00
	<b>Cable TV - Charter Communications</b>					<b>\$250,000.00</b>
	Charter Communications	Charter (\$250,000)	1	ls	\$250,000.00	\$250,000.00
	<b>Telecommunications - FairPoint Communications</b>					<b>\$575,000.00</b>
	FairPoint Communications	FairPoint (\$575,000)	1	ls	\$575,000.00	\$575,000.00
	<b>Subtotal, hard costs</b>					<b>\$3,243,660.00</b>
	<b>Mobilization &amp; General Conditions Fees</b>					<b>\$260,000.00</b>
	Mobilization & General Conditions	Approximately 8% total construction cost	1	ls	\$ 260,000.00	\$260,000.00

**Hard Costs Subtotal** **\$3,503,660.00**

**Estimated Soft Costs & Contingency**

Engineering  
Contingency

10% Civil Costs  
20% Civil Costs

\$61,900.00  
\$123,800.00

**Soft Costs & Contingency Subtotal** **\$185,700.00**

**Total Hard + Soft Conceptual Budget** **\$3,689,360.00**

Assumptions:

1. Does not include individual service connections.
2. Pavement removal and patching assumed for all trenching and manhole work. Portion may not be necessary if work done at same time as roadwork.
3. Trenching costs assumes electric, cable and telecommunications in same trench for majority of project area.

# York Village OH to UG

## CONDUCTORS / CABLES

2000 ft of 500 CU x 6 runs (3-phase loop) = 12,000 ft of 500 CU x \$120/ft = \$1440000  
1000 ft of #2 AL x 6 runs (3-phase loop to service transformers and spurs) = 6,000 ft of #2 AL = \$9000  
2000 ft of #2 AL x 2 runs (1-phase loop) = 4,000 ft of #2 AL = \$6000  
Total: \$ 1,455,000

## CONDUITS

4x2 8-way 6" conduit bank – Sched. 40 PVC concrete encased – 2000 ft

## RISERS

(5) 3-phase risers = \$9000  
(3) 1-phase risers = \$2000  
Total: \$ 11,000

## MANHOLES / JUNCTION BOXES

7 manholes  
3 junction boxes

## SWITCH CABINETS / SWITCHGEAR

3 switch cabinets = \$ 5,000  
2 switchgear @ \$50,000 = \$100,000  
Total: \$105,000

## TRANSFORMERS

(2) 3-phase transformers – \$20,000  
(6) 1-phase transformers - \$6,000  
Total: \$26,000

## OTHER – Labor, service changes, removals, etc.

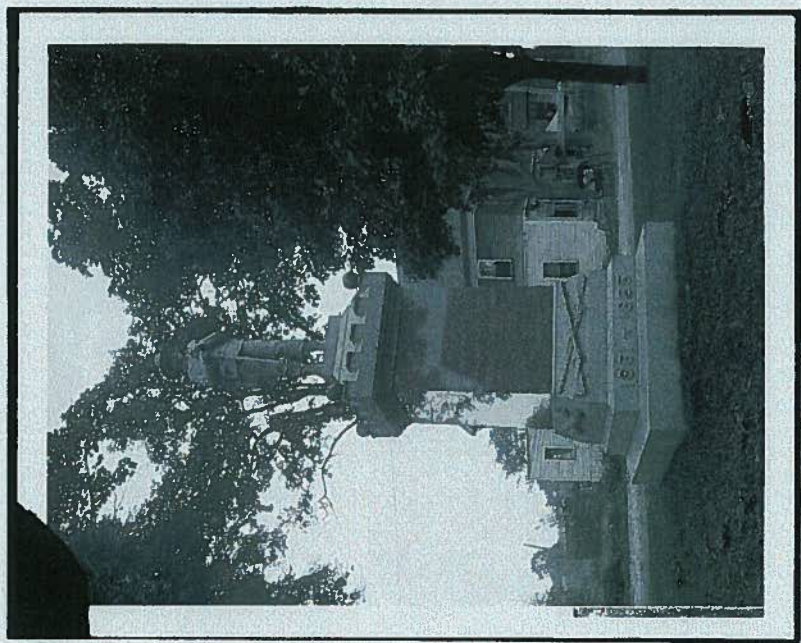
Total: \$25,000

Overall Total: \$ 1,620,000

Overall Total + 10% Contingency: \$ 1,784,200

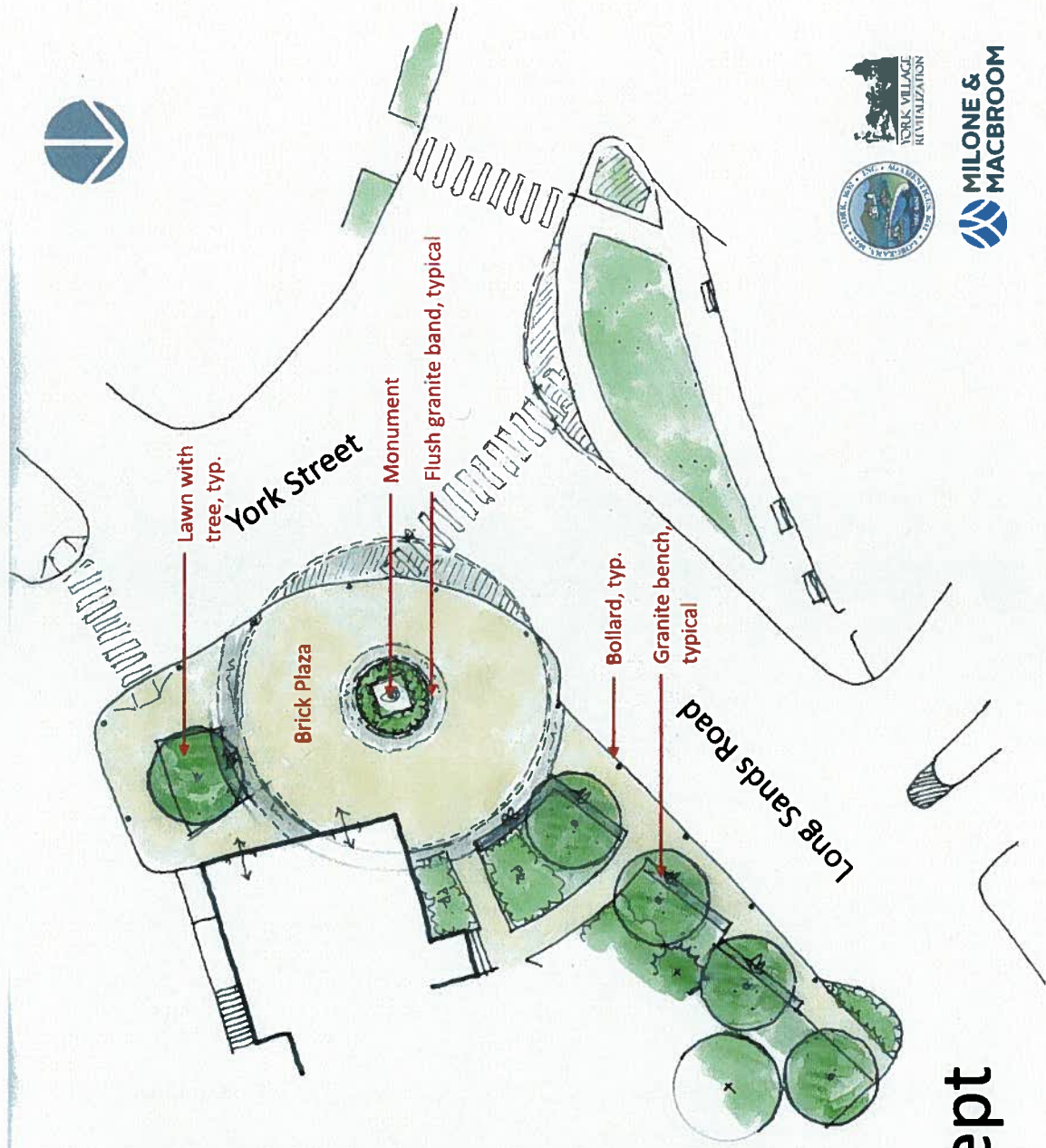
**FINAL TOTAL ESTIMATE: \$ 1.8 million**





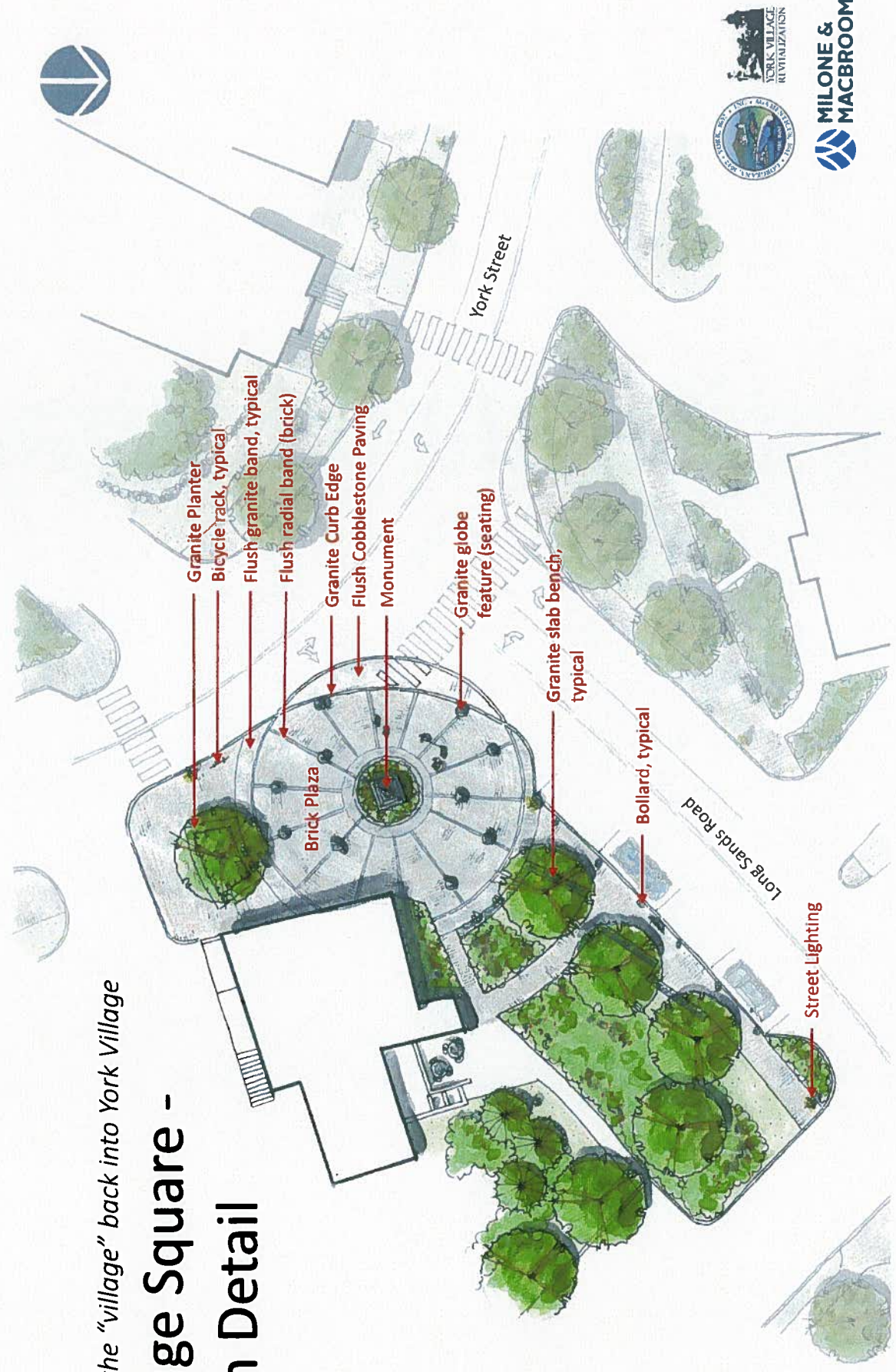
Putting the "village" back into York Village

# Village Square Concept

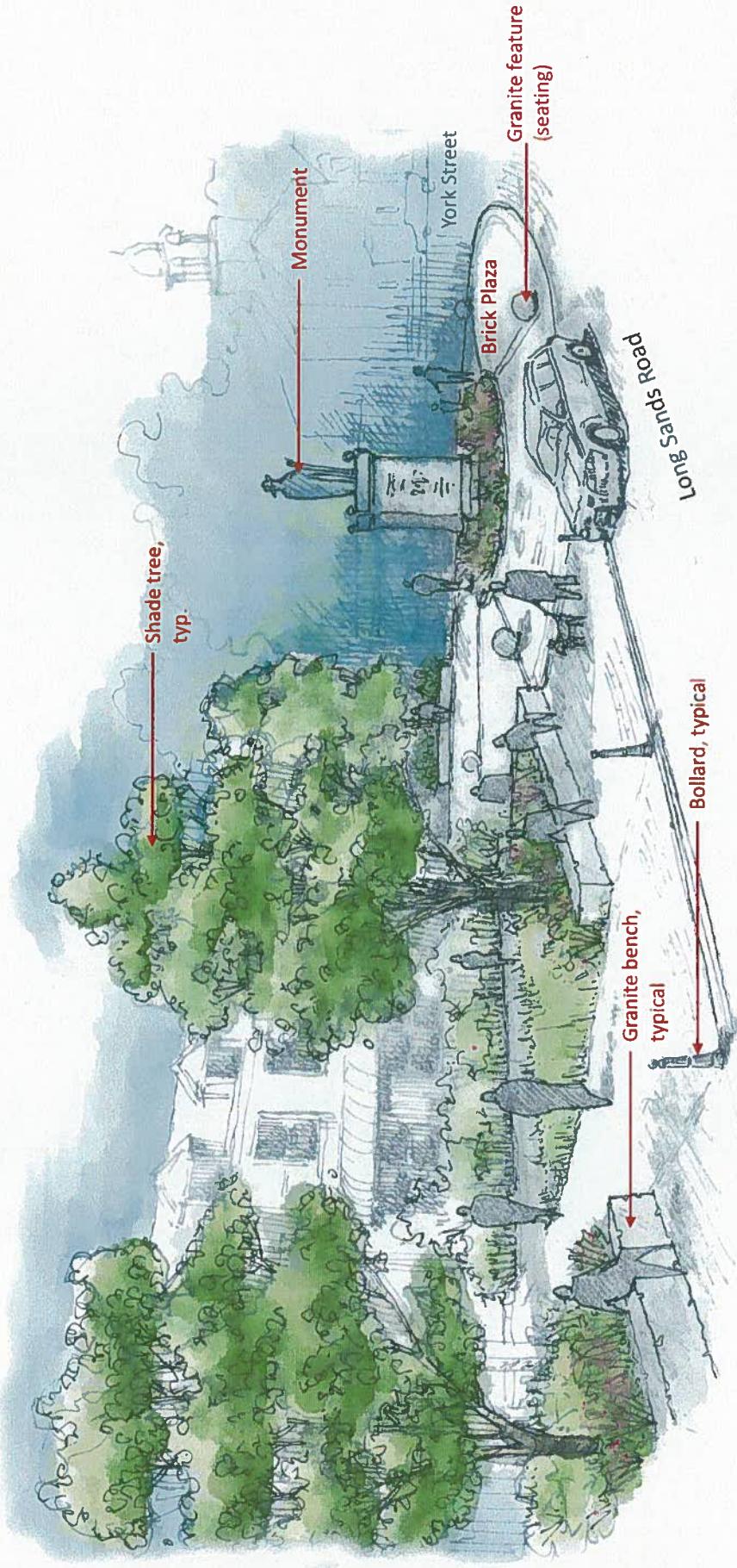




Putting the "village" back into York Village  
**Village Square -  
 Plan Detail**







Putting the "village" back into York Village

# Village Square – Sketch Perspective



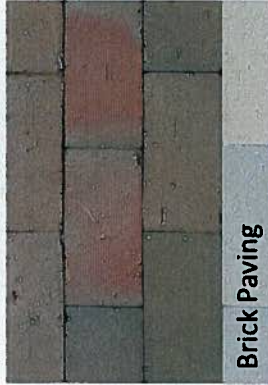
YORK VILLAGE  
REVITALIZATION

MILONE &  
MACBROOM



# STREETSCAPE TREATMENT

## PROPOSED MATERIALS



## STREET LIGHTING

## PAVING MATERIALS

## SITE FURNISHINGS

## FEATURES

# THE REVITALIZATION OF A VILLAGE CENTER



**Location:** York Village, York

**Design Team:** Milone & MacBroom with Lachman Architects & Planners; Landmark Corporation; Rodney Lynch, AICP; Bennett Engineering; & Summit Geoenvironmental Services

**Construction start:** Estimated 2020

**Construction complete:** Estimated 2021

One of the greatest potential assets of York Village is its quality of place—those character-defining elements that distinguish it and make it resonate with visitors and residents alike. The village center is defined by its historic architecture and landmarks, mix of local businesses, clustered civic destinations, and “third places,” where neighbors meet neighbors for lunch or coffee. Over the years, however, the public right-of-way in the village center has become dominated by vehicle space and parking, disrupting the balance of uses. The vast space dedicated to pavement leaves little room for pedestrians and place-making elements, and creates an environment that is unattractive and out-of-sync with the historic character and scale of the village center.

In 2011 the town formed the York Village Study Committee, a group of committed volunteers tasked with developing a strategy to spur economic development and to “put the *village* back

in York Village.” Their initial effort led to the development of the 2015 York Village Revitalization Master Plan by the project team of Lachman Architects and Planners; Landmark Corporation; Bennett Engineering; Rodney Lynch, AICP; Summit Geoenvironmental Services; and Milone and MacBroom. The master plan crafted a vision for revitalizing the central village into a safer, more attractive, walkable community by “reallocating” vehicle-dedicated space, introducing traffic-calming measures, and simplifying vehicle movements. A proposed “Village Square” replaces pavement at the heart of the village to create a new public space featuring the Soldiers’ Monument honoring York’s Civil War veterans.

The Town of York is working with Maine DOT and funding through the Kittery Area Metropolitan Planning Organization. Milone and MacBroom (and their project team) is leading final design for the first phase of the \$4 million project. Construction will begin in 2020.

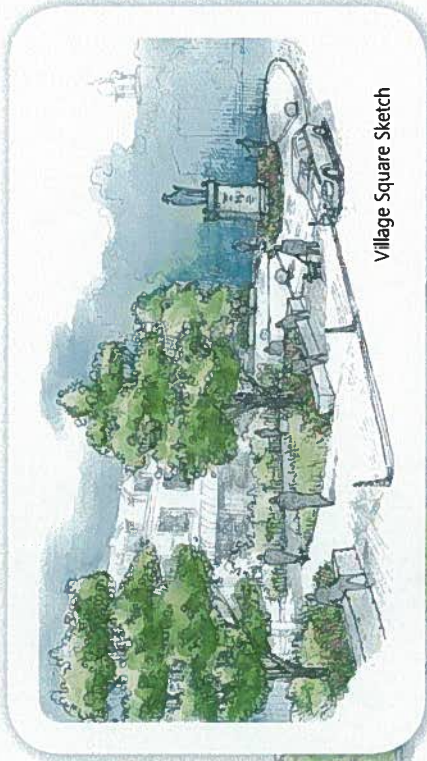
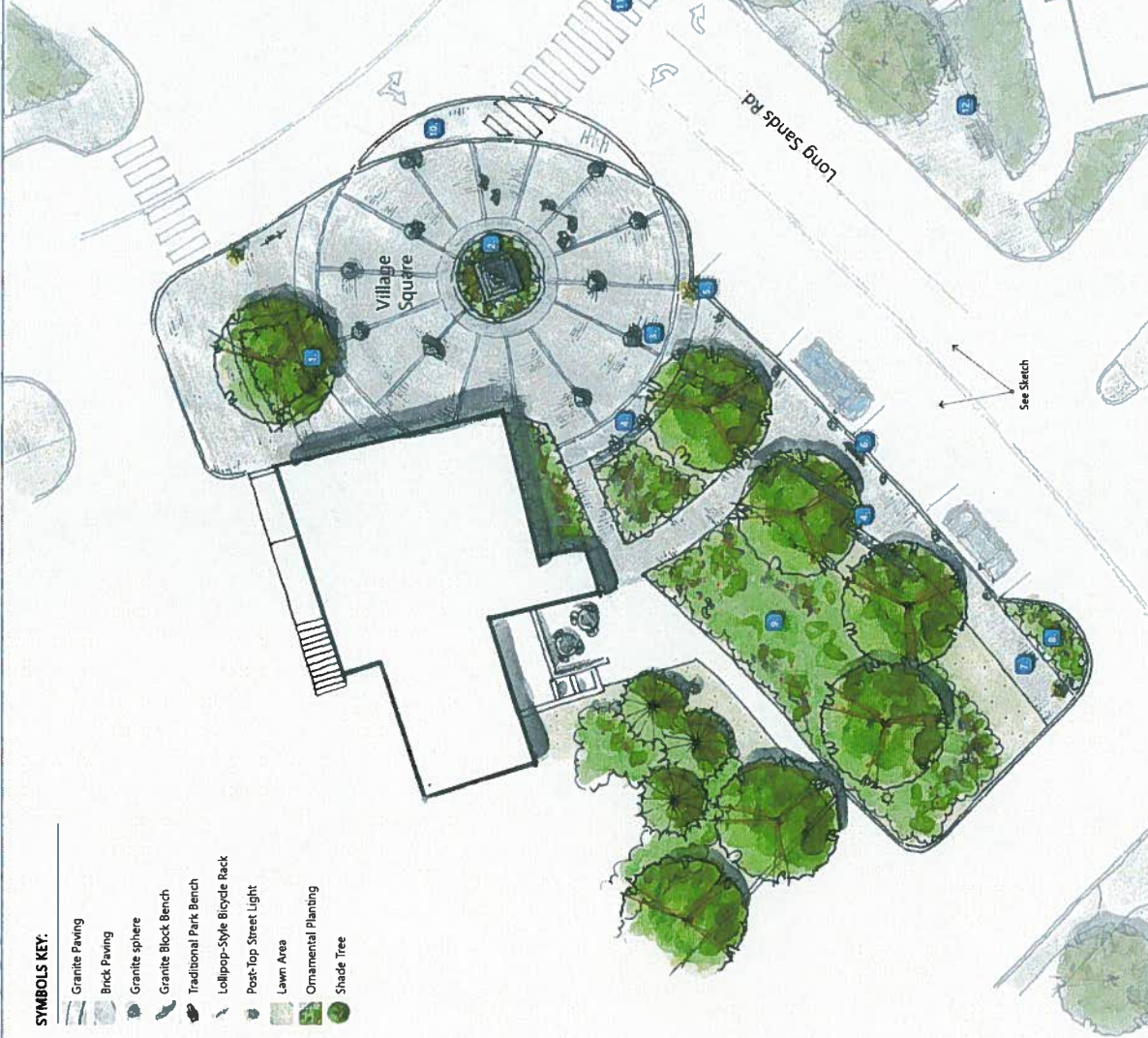






**SYMBOLS KEY:**

- Granite Paving
- Brick Paving
- Granite sphere
- Granite Block Bench
- Traditional Park Bench
- Lollipop-Style Bicycle Rack
- Post-Top Street Light
- Lawn Area
- Ornamental Planting
- Shade Tree



Village Square Sketch

**KEY TO IMPROVEMENTS:**

1. Raised planter/granite block seating
2. Brick paving with radial banding and flush granite inlay/outer area (engraved)
3. Soldiers' Monument with ornamental plantings
4. Granite sphere ornamental seating, typical (reflective of monument features)
5. Granite block bench seating, typical
6. Street light, typical
7. Bicycle rack, typical
8. Wide brick sidewalk, typical, with streetscape elements & pedestrian amenities (lighting, furnishings, seating)
9. Ornamental plantings and wayfinding signage
10. Flush cobblestone paving, transition area to slow traffic & decrease street footprint
11. Curbwalk built to Town standards, typical
12. Traditional bench seating, typical
13. Public green/open lawn area
14. Crossing of York Street to provide access to historic landmarks and museums
15. Green stormwater filter with native grasses and perennials

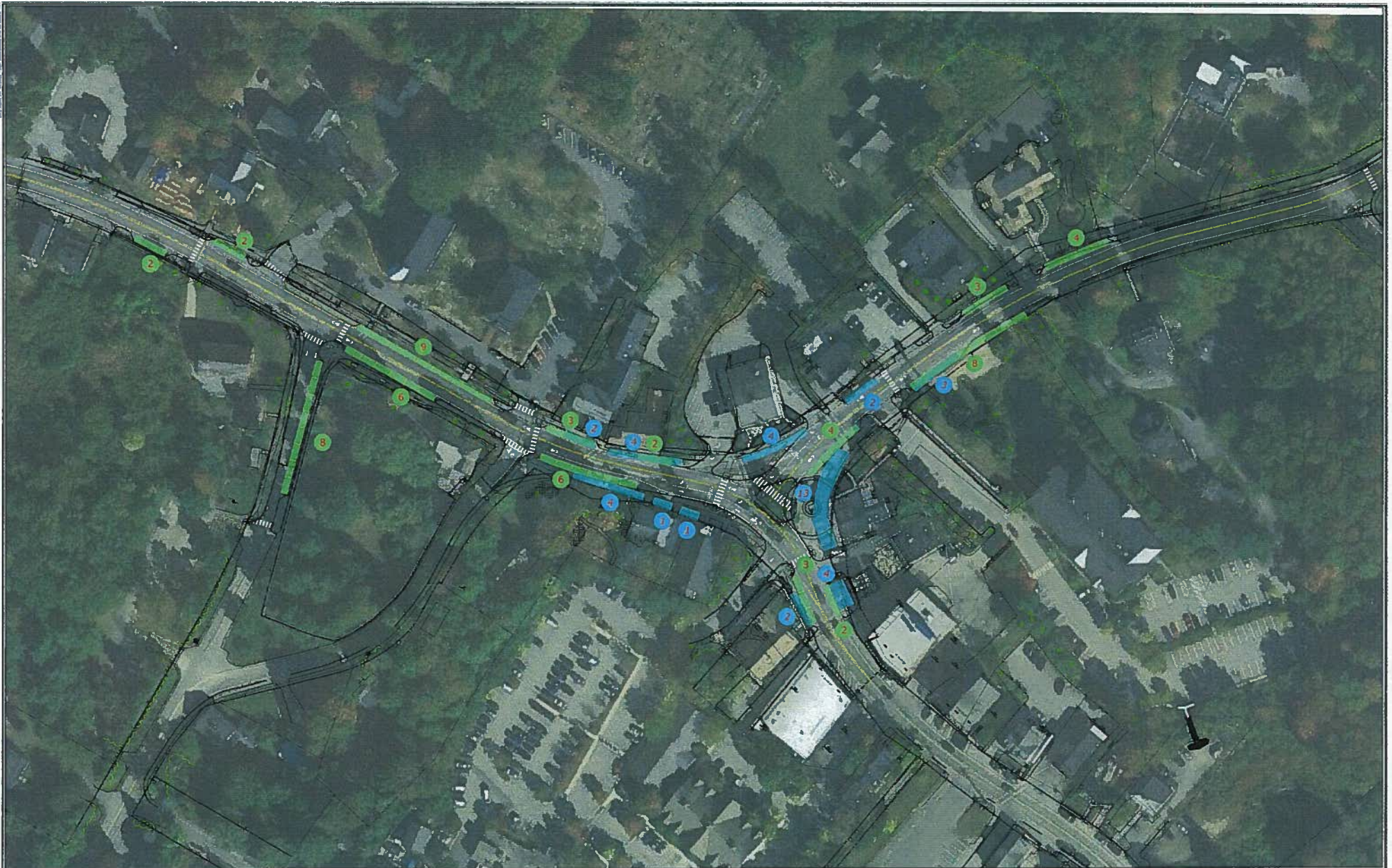
**Village Square Concept**  
 York Village Revitalization Project

Prepared for  
 Town of York  
 185 York Street  
 York, Maine 03909  
 Date: July 26, 2018

**MILONE & MACBROOM**  
 Landmarks Corporation  
 219 Meadow Street  
 Rosport, Maine 04856  
 131 Middle Street, Suite 201  
 Portland, Maine 04101  
 Tel: (207) 541-8544  
 www.milone.com

Project team members:  
 Landmarks Corporation  
 219 Meadow Street  
 Rosport, Maine 04856  
 Bennett Engineering  
 7 Bennett Road  
 Rosport, ME 04852





**PARKING PLAN**

**YORK VILLAGE  
REVITALIZATION PROJECT - PHASE ONE**

YORK STREET  
YORK, MAINE 6-21-2018



**LEGEND**

- EXISTING PARKING - 40 SPACES
- PROPOSED PARKING - 62 SPACES

