File: 17131



28 VANNAH AVE. PORTLAND, ME. 04103 Tel: 207.781.5242 Fax: 207.781.4245

August 1, 2017

Ms. Carla Nixon Town of Cumberland 290 Tuttle Rd Cumberland, ME 04021

## RE: STRATTON WOODS, RESPONSE TO PEER REVIEW COMMENTS

Dear Carla,

We have revised the plans for Stratton Woods. Attached is a Subdivision Plan and a Road Plan and Profile Sheet to respond to the peer reviewer comments.

Below are responses to the comments:

## Section 250-28 Water Supply

The project is in the West Cumberland Well Advisory Zone. Notes are added to the Subdivision Plan consistent with another project recently approved by the Board.

## Section 32 to 34 Street Design

On Sheet 2 of 2 we have provided a detail of the road section. It is the intent of the applicant to keep this road private. The work on the road to be completed by the applicant will be:

- a. Regrade the road to create the crown.
- b. Add 3" of crushed, Type A gravel to provide a new surface.

See attached Report by S.W. Cole for the existing Road. Note the underlying soils are sands and gravels. This road has an excellent base.

### Section 250-40 Storm Drain

The existing road has one 15" PE culvert. Attached is a drainage analysis for the culvert.

## Section 250-44

The homes will be constructed using the current building code. No formal fire protection system is planned for the project.

Ms. Carla Nixon August 1, 2017 Page 2 of 2 File: 17131



## Section 250-45 Soil Erosion

Attached is an Erosion Control Plan for the home construction.

## Section 250-49

We request the following waivers:

- 1. Stratton Lane remains a private gravel road. No paving is required. See Plan and Profile Sheet 2 of 2 for road geometry.
- 2. The Board grant a waiver for the review by CCSWCS. Review by the two peer reviewers is adequate.
- The soil boundaries from the Cumberland County Medium Intensity Soils Mapping are attached. They include Hi-Hinckley, gravely sand and Wm-Windsor loamy sands. The test pits from Mark Hampton also provide soils data for the Board as does the S.W. Cole Report. We request a waiver from the High Intensity Soils Mapping.
- 4. We request a waiver for the road not being in the center of the right of way. It is currently, existing.

## General Comments

Building setbacks have been added to the plans.

Note 8, requires a minimum separation of 100 feet between wells and septic systems. Note indicates that the Town of Cumberland is not responsible for maintenance of road.

Hopefully this addresses any concerns the Board may have. Thank you for your assistance with the project.

Sincerely,

PINKHAM & GREER, CIV/L ENGINEERS Thomas S. Greer, P

cc: (1) Steve Crotty, (1) File

Enclosures

TSG/rjs



## STORMWATER MEMO

28 VANNAH AVE. PORTLAND, ME. 04103 Tel: 207.781.5242 Fax: 207.781.4245

TO: Carla Nixon

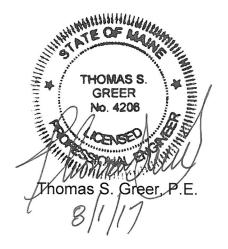
FROM: Thomas Greer

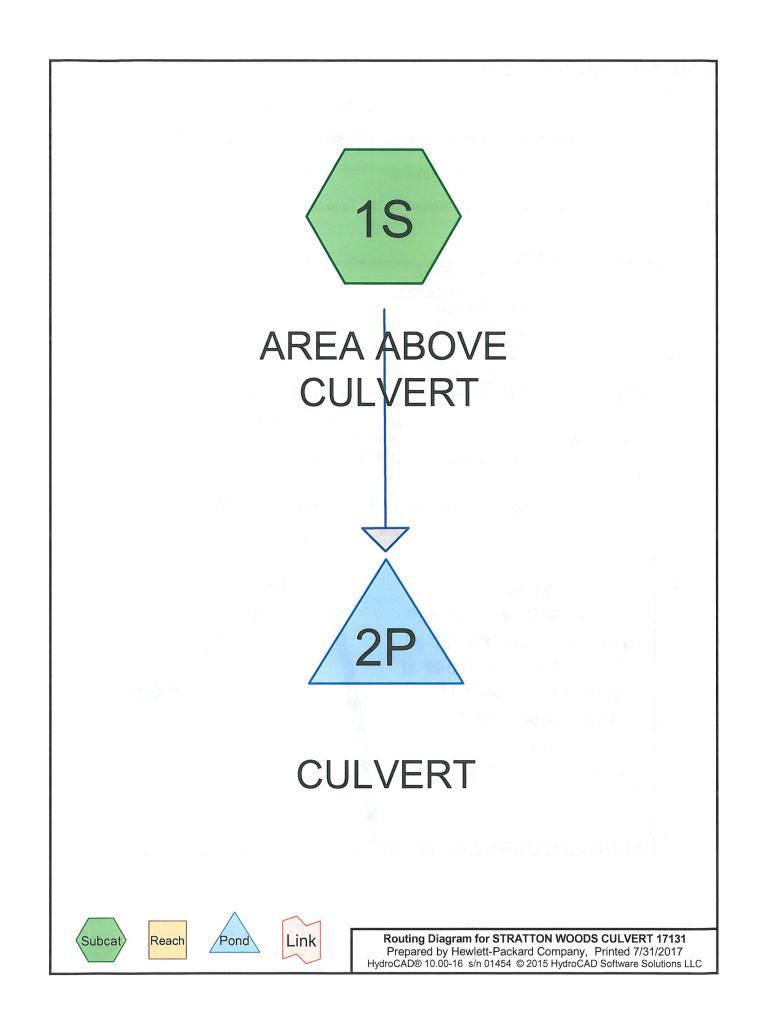
RE: CHECK CULVERT SIZE, STRATTON WOODS

There in one 15" culvert crossing Stratton Woods Lane. It is PE smooth wall pipe. The area draining to it is approximately 6 acres of woods and half of Stratton Woods Lane. The soils for this are hydrologic Group A. Very little runoff from these soils is expected.

Attached is a model showing flows from the 25 year, 5.4" rain fall. I estimated between 20,000 sq. ft. of impervious surface in the watershed and 40,000 sq. ft. Both scenarios show the culvert has capacity to handle the flow. No additional culvers are required.

Let me know if you have any questions.





Type III 24-hr 25 YEAR Rainfall=5.40" Printed 7/31/2017

Prepared by Hewlett-Packard Company HydroCAD® 10.00-16 s/n 01454 © 2015 HydroCAD Software Solutions LLC

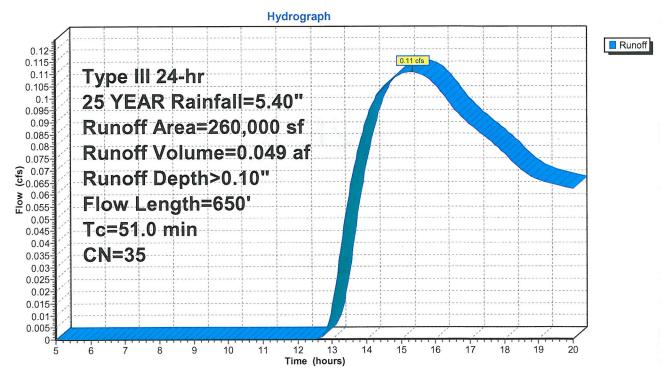
## Summary for Subcatchment 1S: AREA ABOVE CULVERT

Runoff 0.11 cfs @ 15.34 hrs, Volume= 0.049 af, Depth> 0.10" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 25 YEAR Rainfall=5.40"

_	A	rea (sf)	CN D	escription		2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
	2	40,000		,	od, HSG A		
*		20,000	98 T	WO LOTS	AND ROA	D	
	260,000 35 Weighted Average						
	2	40,000	9	2.31% Per	vious Area		
	1	20,000	7	.69% Impe	ervious Area	a	
	Тс	Length	Slope	Velocity	Capacity	Description	
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
	39.2	150	0.0100	0.06		Sheet Flow, SHEET	
						Woods: Light underbrush n= 0.400 P2= 3.20"	
	11.8	500	0.0200	0.71		Shallow Concentrated Flow, SHALLOW	
						Woodland Kv= 5.0 fps	
-	51.0	650	Total				

## Subcatchment 1S: AREA ABOVE CULVERT



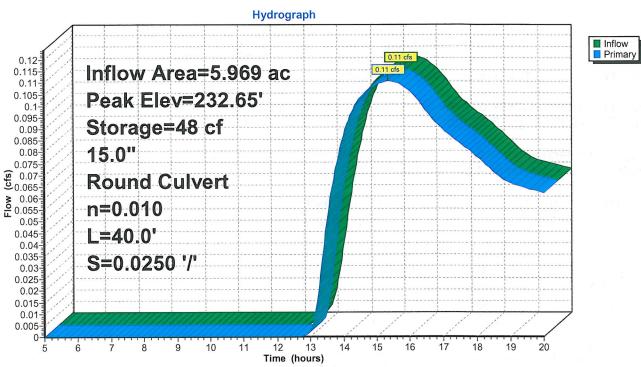
Prepared by Hewlett-Packard Company HydroCAD® 10.00-16 s/n 01454 © 2015 HydroCAD Software Solutions LLC

## Summary for Pond 2P: CULVERT

Inflow Area = Inflow = Outflow = Primary =	0.11 cfs @ 0.11 cfs @	7.69% Impervious, Inflow Depth > 0.10" for 25 YEAR event   15.34 hrs, Volume= 0.049 af   15.37 hrs, Volume= 0.048 af, Atten= 0%, Lag= 1.9 min   15.37 hrs, Volume= 0.048 af						
Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 232.65' @ 15.37 hrs Surf.Area= 340 sf Storage= 48 cf								
Plug-Flow detention time= 8.1 min calculated for 0.048 af (98% of inflow) Center-of-Mass det. time= 4.5 min ( 987.6 - 983.1 )								
Volume	Invert Avail.	storage Storage Description						
#1 2	32.50' ^	,700 cf Custom Stage Data (Prismatic) Listed below (Recalc)						
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store Cum.Store (cubic-feet) (cubic-feet)						
232.50	300	0 0						
234.00	700	750 750						
235.00 1,200 950 1,700								
Device Rout	ing Inve	rt Outlet Devices						
#1   Primary   232.50' <b>15.0" Round Culvert</b> L= 40.0'   Ke= 0.500     Inlet / Outlet Invert= 232.50' / 231.50'   S= 0.0250 '/'   Cc= 0.900     n= 0.010, Flow Area= 1.23 sf								

Primary OutFlow Max=0.11 cfs @ 15.37 hrs HW=232.65' (Free Discharge) ☐ 1=Culvert (Inlet Controls 0.11 cfs @ 1.32 fps)

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## Pond 2P: CULVERT

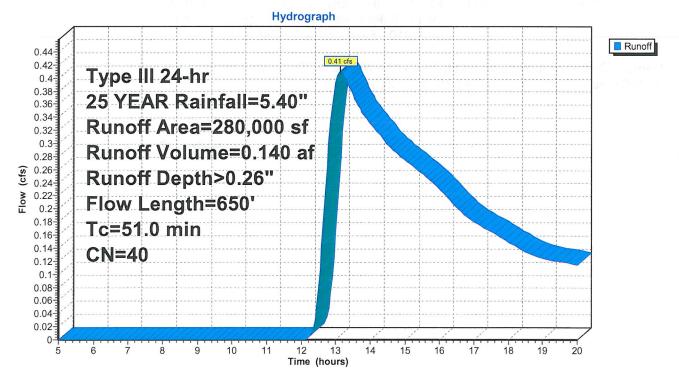
Prepared by Hewlett-Packard Company HydroCAD® 10.00-16 s/n 01454 © 2015 HydroCAD Software Solutions LLC

## Summary for Subcatchment 1S: AREA ABOVE CULVERT

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 25 YEAR Rainfall=5.40"

_	A	rea (sf)	CN E	Description	ad	a set of the	
	2	40,000	30 V	Voods, Go	od, HSG A	것같은 게 혼자 같은 지갑했다. 이번 것 같은 것만 안전 것 같은 것 같이 많다.	
*		40,000	98 T	WO LOTS	AND ROA	ND	
	2	80,000	40 V	Veighted A	verage	21: 영양 - 2011년 - 21 전문 - 21 전문 전성 같은 62 명감 중 (2014년 - 2014년 - 2	
240,000 85.71% Pervious Area							
	C	40,000	1	4.29% Imp	ervious Are	ea	
	Tc	Length	Slope	Velocity	Capacity	Description	
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
	39.2	150	0.0100	0.06	14	Sheet Flow, SHEET	
						Woods: Light underbrush n= 0.400 P2= 3.20"	
	11.8	500	0.0200	0.71		Shallow Concentrated Flow, SHALLOW	
						Woodland Kv= 5.0 fps	
	51.0	650	Total			98) (Fellow) (Fellow)	

## Subcatchment 1S: AREA ABOVE CULVERT



Prepared by Hewlett-Packard Company HydroCAD® 10.00-16 s/n 01454 © 2015 HydroCAD Software Solutions LLC

## Summary for Pond 2P: CULVERT

Inflow Area	=	6.428 ac, 14.29% Impervious, Inflow Depth > 0.26"	for 25 YEAR event
Inflow	=	0.41 cfs @ 13.14 hrs, Volume= 0.140 af	
Outflow	=	0.41 cfs @ 13.19 hrs, Volume= 0.138 af, Atter	n= 0%, Lag= 2.9 min
Primary	=	0.41 cfs @ 13.19 hrs, Volume= 0.138 af	

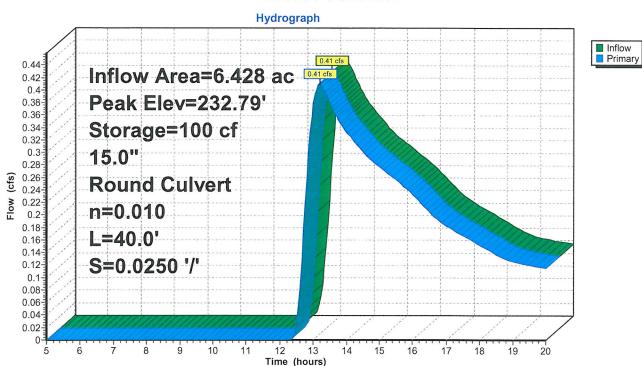
Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 232.79' @ 13.19 hrs Surf.Area= 379 sf Storage= 100 cf

Plug-Flow detention time= 5.2 min calculated for 0.138 af (99% of inflow) Center-of-Mass det. time= 3.0 min (932.8 - 929.8)

Volume	Inve	ert Avail	.Storage	age Storage Description			
#1	232.5	2.50' 1,700 c		Custom Stage Data (Prismatic) Listed below (Recalc)			Recalc)
Elevatio (fee		Surf.Area (sq-ft)		c.Store c-feet)	Cum.Store (cubic-feet)		
232.5 234.0	0	300 700	i natelj	0 750	0 750		
234.0		1,200		950	1,700		
Device	Routing	Inv	vert Out	et Devic	es		
#1 Primary 232.50'			Inle	t / Outlet	d Culvert L= 40.0' Invert= 232.50' / 231 ow Area= 1.23 sf		Cc= 0.900

Primary OutFlow Max=0.41 cfs @ 13.19 hrs HW=232.79' (Free Discharge) ☐ 1=Culvert (Inlet Controls 0.41 cfs @ 1.85 fps)

## STRATTON WOODS CULVERT 17131 Prepared by Hewlett-Packard Company



## Pond 2P: CULVERT





## MARK HAMPTON ASSOCIATES, INC.

SOIL EVALUATION . WETLAND DELINEATIONS . SOIL SURVEYS . WETLAND PERMITTING

4868

April 15, 2017

Mr. Steve Crotty P.O. Box 1449 Gray, ME 04039

Re: Preliminary soil evaluation, Stratton Woods Subdivision, Cumberland, ME

Dear Steve,

I completed a preliminary soil evaluation on a proposed 4 lot subdivision located on Stratton Woods Lane Cumberland, Maine. The lot is proposed to be developed into 4 single family houses. The soil evaluation was conducted in accordance with the Maine Subsurface Wastewater Disposal Rules dated August 2011, as amended at the time. I evaluated two hand excavated soil test pits on each proposed lot. The soils found on the parcel are glacial outwash soils with a limiting factor at greater than 48 inches except for Lot 4 which was glacial outwash soils overlying marine lacustrine soils. I was able to find suitable soils and area for a septic system on each proposed lot.

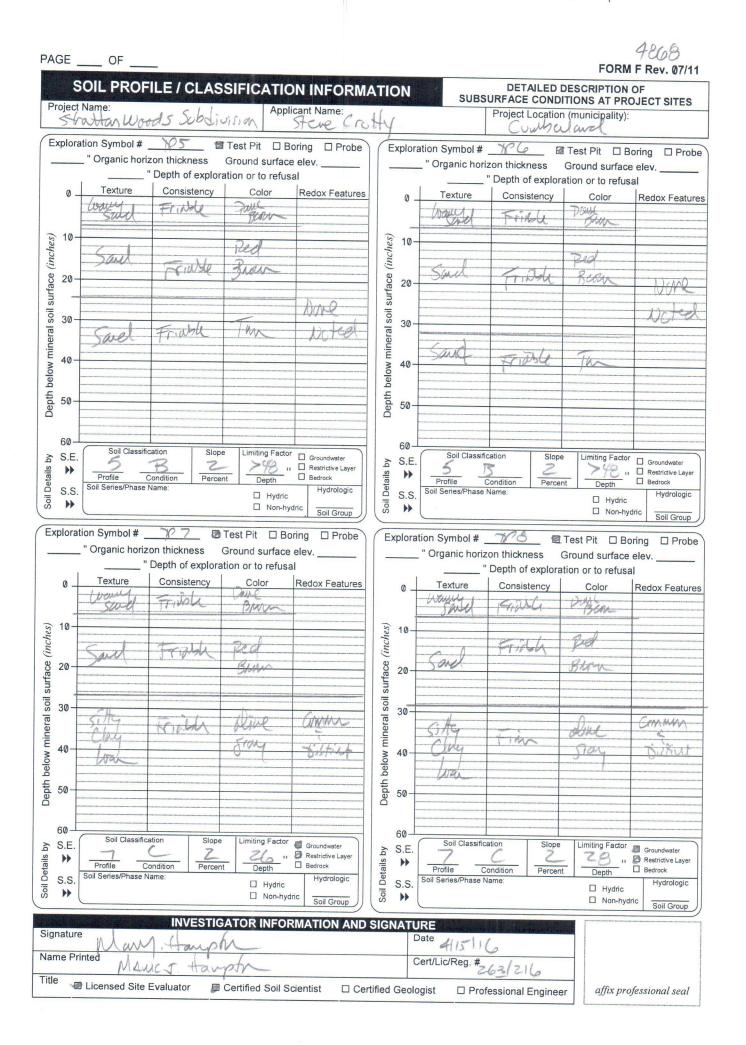
The soils as evaluated meet the minimum requirements of the state rules and as such are suitable for the location of a septic system. The disposal bed for a 3 bedroom home would possibly be a 700 square feet stone bed, 20 feet wide and 35 feet long on lots 1, 2 and 3. Lot 4 would require a 900 square foot bed, or 20 feet wide and 45 feet lond. In my opinion, there are suitable soils and area on each proposed lot for a septic system. A subsurface wastewater disposal design can be prepared at a future date.

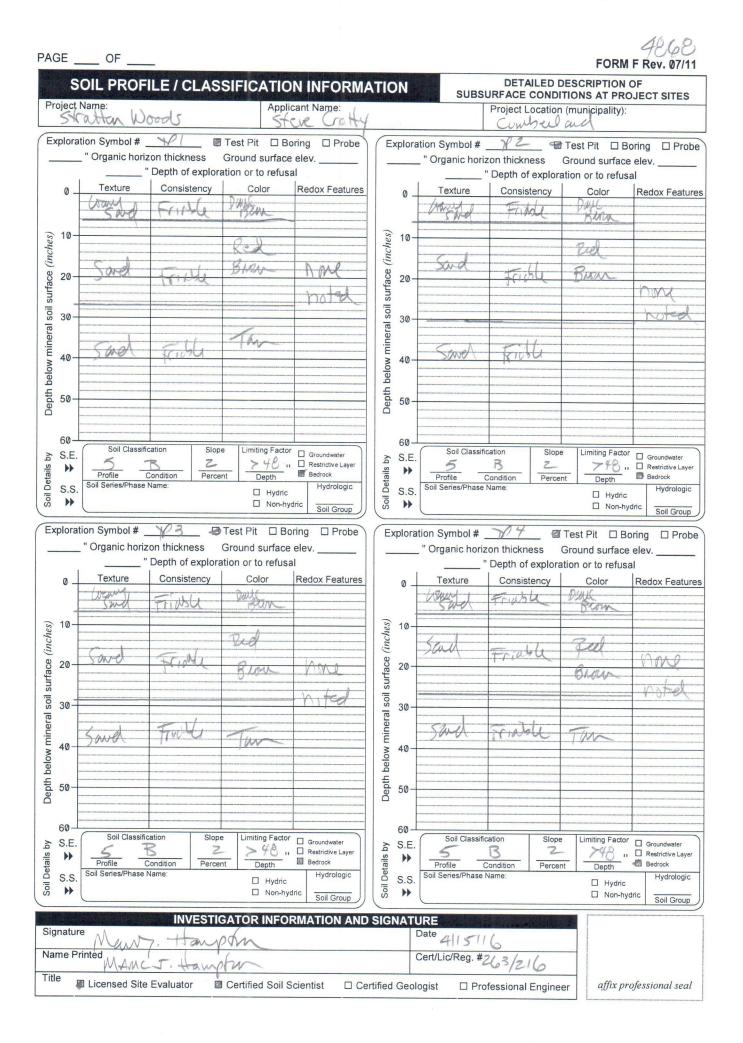
If you have any questions or require additional information, please contact me.

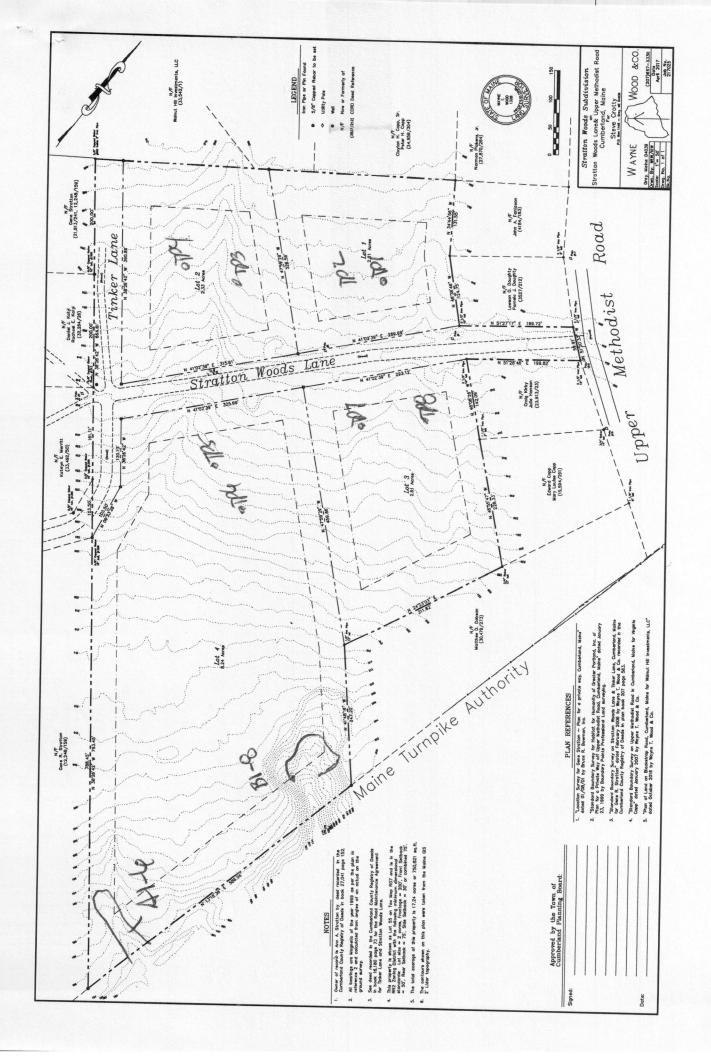
Sincerely.

Mark J. Hampton L.S.E., C.S.S. Licensed Site Evaluator #263 Certified Soil Scientist #216

P.O. BOX 1931 • PORTLAND, ME 04104-1931 • 207-756-2900 • mhampto1@maine.rr.com Quality services that meet your deadline









17-0640

June 27, 2017

Steve Crotty P.O. Box 1449 Gray, ME 04039

Subject: Report of Findings Shallow Explorations and Soils Testing Stratton Woods Cumberland, Maine

Dear Steve,

In accordance with our Proposal dated June 20<sup>th</sup> and as requested, we made a site visit on June 23<sup>rd</sup> to perform shallow test pit work at two locations along the Stratton Woods Subdivision road. As agreed, we hand excavated through the existing gravels comprising the current road section to document in-situ strata thicknesses and material types.

We understand the road was originally constructed about 15-years ago and as part of discussions with the town regarding additional development, it has been requested that the existing road section be compared to town standards. A plan showing the approximate locations of the hand explorations is attached as "sheet 1".

## FIELD WORK

At each of the test pit exploration locations, we advanced through the existing gravel using an open face bucket auger manufactured by AMS in combination with hand tools including a shovel, pry bar and pick axe. The various soil stratum were visually identified in the field and samples were retained for laboratory grain size analysis and classification. Material types and strata changes encountered at each of the test pits were drafted on test pit logs and are attached to this document as "sheet 2" and photos showing the excavations are attached as "sheet 3".

## **FINDINGS & TESTING**

Conditions encountered at test pits 1 and 2 were found to be similar, consisting of approximately one inch of gravel shim material overlying several inches of reclaimed base material overlying what appeared to be imported subbase gravel overlying both reworked and undisturbed native gravelly soils. Five laboratory gradation tests (ASTM C-117) were performed on the various material types encountered using composite samples where



stratum were found to be similar. Laboratory test results are attached as "sheet 4 through sheet 8".

The particle size distributions of the gradations are shown compared to the state standards for MDOT 703.06 Type A (base) and MDOT 703.06 Type D (subbase). We understand the Town of Cumberland references these state standards as part of their typical road section. At the first test pit, soils meeting the gradation requirement for Type D subbase were found between depths of 4 inches and 40 inches (bottom of exploration). Similarly, at the second test pit material classified as Type D subbase was encountered between 4 inches and 27 inches. The first 4 inches of gravel at each of the two test pits was not found to meet the gradation requirement for Type A or Type D, however, we recommend discussing the suitability of this surficial layer of gravel with the town as it may meet the intent for base gravel on an unpaved roadway. No unsuitable soils such as organics were noted at either exploration area and both explorations were dry with road section gravel appearing compacted.

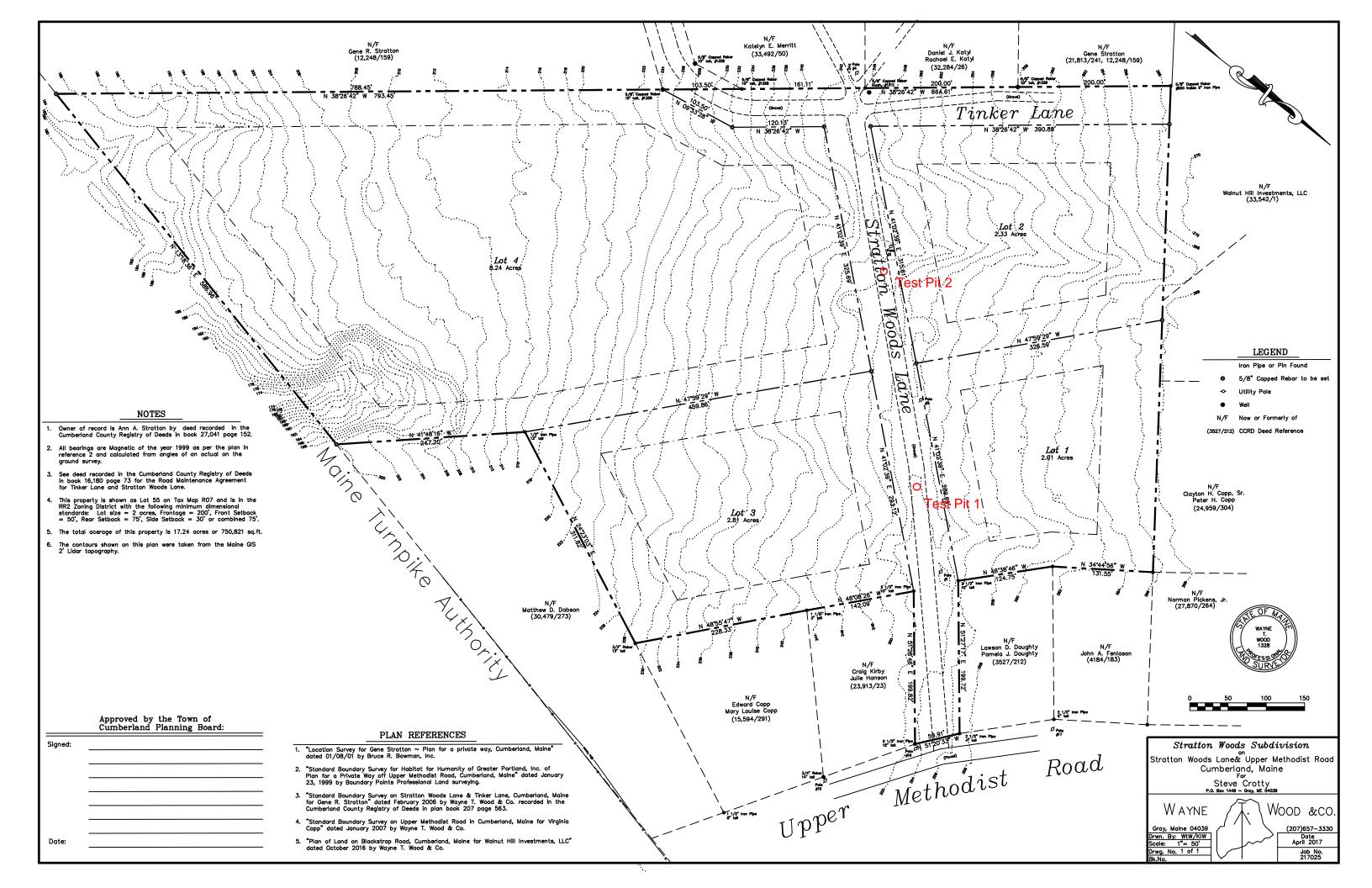
Thank you for allowing us to work with you on this project, if we can be of any further assistance, please feel free to contact either Roger Domingo or Karl Gimpel at our Gray, Maine office.

Sincerely,

## S. W. Cole Engineering, Inc.

Roger E Domay

Roger E. Domingo Construction Services Manager





## **TEST PIT LOGS**

PROJECT/CLIENT: STRATTON WOODS SUBDIVISION / STEVE CROTTY

LOCATION: CUMBERLAND, MAINE

PROJECT NO.: 17-0640 S.W.COLE REP: K. GIMPEL

				TE	ST PIT TP-1		
		DATE:	6/23/2017	SURFACE ELE	VATION: EXISTING	LOCATION:	STATION 330', 5' L
SAN NO.	DEPTH	DEPTH (IN)		STRATUM	<b>IDESCRIPTION</b>		TEST RESULTS
S-1	0-1"	1	LIGH	IT BROWN/TAN GRAVELLY S	AND SOME SILT (BASE	/IMPORTED FILL)	
S-2	1-4"	4	BLA	ACK GRAVELLY SAND SOME	E SILT (BASE/IMPORTED	RECLAIM FILL)	
S-3	4-12"	12	E	ROWN GRAVELLY SAND TRA	ACE SILT (SUBBASE/IMI	PORTED FILL)	
	12-40"	40		BROWN GRAVELLY SAND (REWORKI	TRACE TO SOME SILT ( ED NATIVE SOILS)	(SUBBASE)	
				BOTTOM	OF EXPLORATION		
	C	OMPLETI	ON DEPTH:	40 INCHES	DEPTH TO	O WATER: NO FREEWAT	ER OBSERVED

				TES	ST PIT TP-2		
		DATE:	6/23/2017	SURFACE ELEV	ATION: EXISTING	LOCATION:	STATION 550', 6' R
SAN NO.	IPLE DEPTH	DEPTH (IN)		STRATUM	DESCRIPTION		TEST RESULTS
S-1	0-1"	/ 1	E	BROWN/TAN GRAVELLY SAND	O SOME SILT (BASE/IMPOR	TED FILL)	
S-2	1-4"	4	BL	ACK GRAVELLY SAND SOME	SILT (BASE/IMPORTED REC	CLAIM FILL)	
S-3	4-7"	7	E	ROWN GRAVELLY SAND TRA	ACE SILT (SUBBASE/IMPOR	TED FILL)	
S-4	7-12"	12	BROWN	ORANGE GRAVELLY SAND T	RACE SILT (SUBBASE/REW	ORKED NATIVE)	
			BROW	N GRAVELLY SAND TRACE S	ILT (SUBBASE/REWORKED	NATIVE SOILS)	
S-5	12-27"	27					
		29	DARK BROW	N SILTY SAND SOME GRAVE	L TRACE ORGANICS (RELIC	GROUND SURFACE)	
		42		BROWN SAND SOME GRA	VEL TRACE SILT (NATIVE S	OILS)	
	C	OMPLETI	ON DEPTH:	42 INCHES	DEPTH TO W	ATER: NO FREE WAT	TER OBSERVED





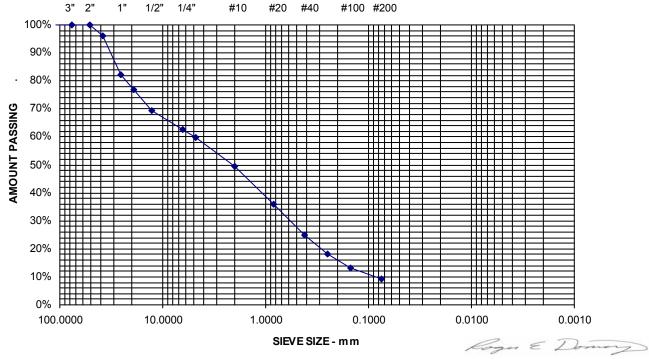


ASTM C-117 & C-136

Project Name	CUMBERLAND ME - STRATTON WOODS - CONSTRUCTION MATERIALS TESTING SERVICES	Project Number	
Olivert		Lab ID	22527G
Client	STEVE CROTTY	Date Received	6/23/2017
Material Type	EXISTING GRAVEL/BASE	Data Completed	0/00/0047
Matarial Source	COMPOSITE TP1, S-1 AND TP2, S-1	Date Completed	6/26/2017
Material Source	COMPOSITE IF 1, 5-1 AND 1F2, 5-1	Tested By	PAUL SHAFFER

STANDARD	SIEVE	AMOUNT	2015 MDOT 703 06 Type	2015 MDOT 703 06 Type
DESIGNATION (MM/µM)	<u>SIZE</u>	PASSING(%)	A Specifications (%)	D Specifications (%)
150 mm	6"	100		100
125 mm	5"	100		
100 mm	4"	100		
75 mm	3"	100		
50 mm	2"	100	100	
38.1 mm	1-1/2"	96		
25.0 mm	1"	82		
19.0 mm	3/4"	77		
12.5 mm	1/2"	69	45 - 70	35 - 80
6.3 mm	1/4"	63	30 - 55 🕇	25 - 65
4.75 mm	No. 4	60		
2.00 mm	No. 10	49		
850 um	No. 20	36		
425 um	No. 40	25	0 - 20 †	0 - 30
250 um	No. 60	18		
150 um	No. 100	13		
75 um	No. 200	9.2	0 - 6 †	0 - 7 †

**† SAMPLE DOES NOT MEET SPECIFICATION** 



Comments

Roger E. Domingo 286 Portland Road, Gray, ME 04039-9586 • Tel (207) 657-2866 • Fax (207) 657-2840 • www.swcole.com



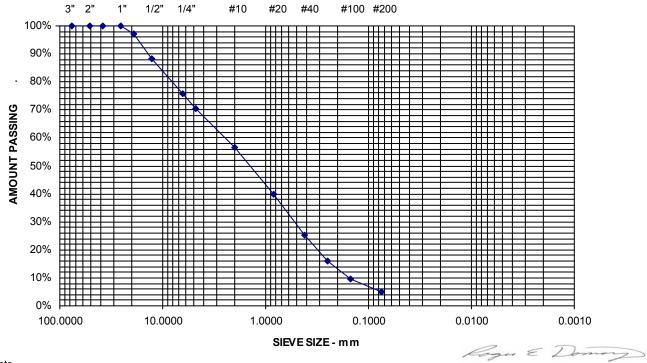


ASTM C-117 & C-136

Project Name	CUMBERLAND ME - STRATTON WOODS - CONSTRUCTION MATERIALS TESTING SERVICES	Project Number	
Oliant		Lab ID	22528G
Client	STEVE CROTTY	Date Received	6/23/2017
Material Type	EXISTING GRAVEL/BASE	Data Ormulated	0/00/00/7
Matarial Course	COMPOSITE TP1, S-2 AND TP2, S-2	Date Completed	6/26/2017
Material Source	COMPOSITE TP1, S-2 AND TP2, S-2	Tested By	PAUL SHAFFER

<b>STANDARD</b>	SIEVE	AMOUNT	2015 MDOT 703 06 Type	2015 MDOT 703 06 Type
DESIGNATION (MM/µM)	SIZE	PASSING(%)	A Specifications (%)	D Specifications (%)
150 mm	6"	100		100
125 mm	5"	100		
100 mm	4"	100		
75 mm	3"	100		
50 mm	2"	100	100	
38.1 mm	1-1/2"	100		
25.0 mm	1"	100		
19.0 mm	3/4"	97		
12.5 mm	1/2"	88	45 - 70 <del>†</del>	35 - 80 🕇
6.3 mm	1/4"	76	30 - 55 †	25 - 65 †
4.75 mm	No. 4	70		
2.00 mm	No. 10	57		
850 um	No. 20	40		
425 um	No. 40	25	0 - 20 †	0 - 30
250 um	No. 60	16		
150 um	No. 100	10		
75 um	No. 200	4.9	0 - 6	0 - 7

**† SAMPLE DOES NOT MEET SPECIFICATION** 



Comments

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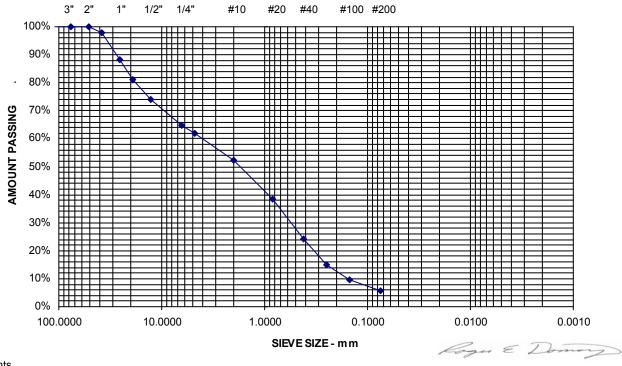
# **Report of Gradation**

ASTM C-117 & C-136

Project Name	CUMBERLAND ME - STRATTON WOODS - CONSTRUCTION	Project Number	17-0640
	MATERIALS TESTING SERVICES	Lab ID	22529G
Client	STEVE CROTTY	Date Received	6/23/2017
Material Type	EXISTING GRAVEL/SUBBASE	Date Completed	6/26/2017
Material Source	COMPOSITE TP1, S-3 AND TP2, S-3	Tested By	PAUL SHAFFER

<u>STANDARD</u> DESIGNATION (mm/µm)	SIEVE SIZE	AMOUNT PASSING (%)	2015 MDOT 703.06 TYPE D SPECIFICATIONS (%)
150 mm	6"	100	100
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	98	
25.0 mm	1"	88	
19.0 mm	3/4"	81	
12.5 mm	1/2"	74	35 - 80
6.3 mm	1/4"	65	25 - 65
4.75 mm	No. 4	62	
2.00 mm	No. 10	52	
850 um	No. 20	38	
425 um	No. 40	24	0 - 30
250 um	No. 60	15	
150 um	No. 100	10	
75 um	No. 200	5.6	0.0 - 7.0

SAMPLE MEETS SPECIFICATION



Comments

Roger E. Domingo

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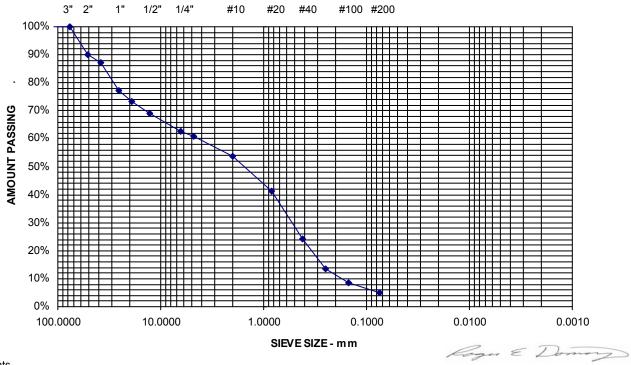
# **Report of Gradation**

ASTM C-117 & C-136

Project Name	CUMBERLAND ME - STRATTON WOODS - CONSTRUCTION	Project Number	17-0640
	MATERIALS TESTING SERVICES	Lab ID	22530G
Client Material Type	STEVE CROTTY	Date Received	6/23/2017
	e EXISTING GRAVEL/SUBBASE	Date Completed	6/26/2017
	urce COMPOSITE TP1, S-4 AND TP2, S-4	Tested By	PAUL SHAFFER

<u>STANDARD</u> DESIGNATION (mm/µm)	SIEVE SIZE	AMOUNT PASSING (%)	2015 MDOT 703.06 TYPE D SPECIFICATIONS (%)
150 mm	6"	100	100
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	90	
38.1 mm	1-1/2"	87	
25.0 mm	1"	77	
19.0 mm	3/4"	73	
12.5 mm	1/2"	69	35 - 80
6.3 mm	1/4"	63	25 - 65
4.75 mm	No. 4	61	
2.00 mm	No. 10	54	
850 um	No. 20	41	
425 um	No. 40	24	0 - 30
250 um	No. 60	14	
150 um	No. 100	8	
75 um	No. 200	4.9	0.0 - 7.0

SAMPLE MEETS SPECIFICATION



Comments

Roger E. Domingo

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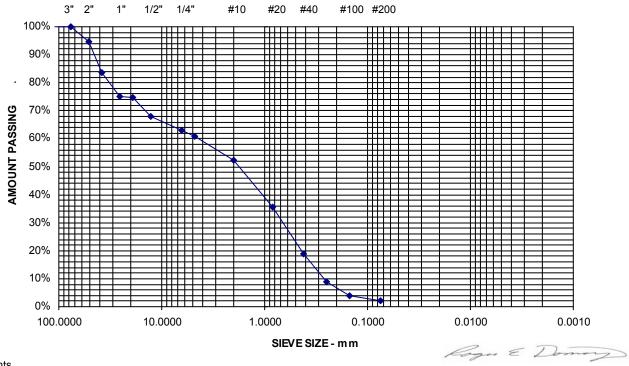
# **Report of Gradation**

ASTM C-117 & C-136

Project Name			17-0640
MATERIALS TESTING SERVICES	Lab ID	22531G	
Client	Client STEVE CROTTY	Date Received	6/23/2017
Material Type	EXISTING GRAVEL/SUBBASE	Date Completed	6/26/2017
Material Source	TP-2, S-5	•	0.20.20.11
		Tested By	PAUL SHAFFER

STANDARD			2015 MDOT 703.06 TYPE D
DESIGNATION (mm/µm)	SIEVE SIZE	AMOUNT PASSING (%)	SPECIFICATIONS (%)
150 mm	6"	100	100
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	95	
38.1 mm	1-1/2"	84	
25.0 mm	1"	75	
19.0 mm	3/4"	75	
12.5 mm	1/2"	68	35 - 80
6.3 mm	1/4"	63	25 - 65
4.75 mm	No. 4	61	
2.00 mm	No. 10	52	
850 um	No. 20	35	
425 um	No. 40	19	0 - 30
250 um	No. 60	9	
150 um	No. 100	4	
75 um	No. 200	2.1	0.0 - 7.0

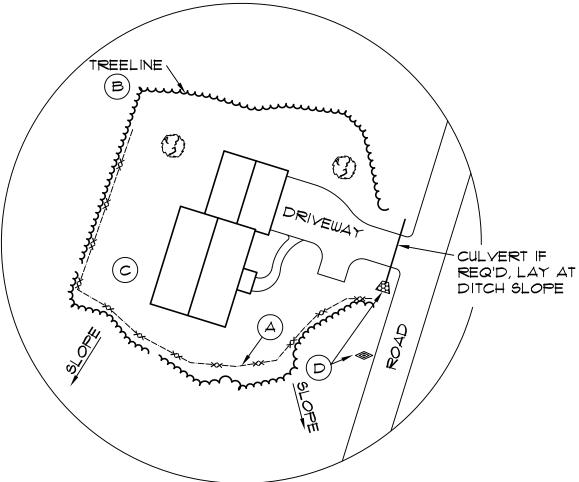
SAMPLE MEETS SPECIFICATION



Comments

Roger E. Domingo

286 Portland Road, Gray, ME 04039-9586 • Tel (207) 657-2866 • Fax (207) 657-2840 • www.swcole.com



### NOTES:

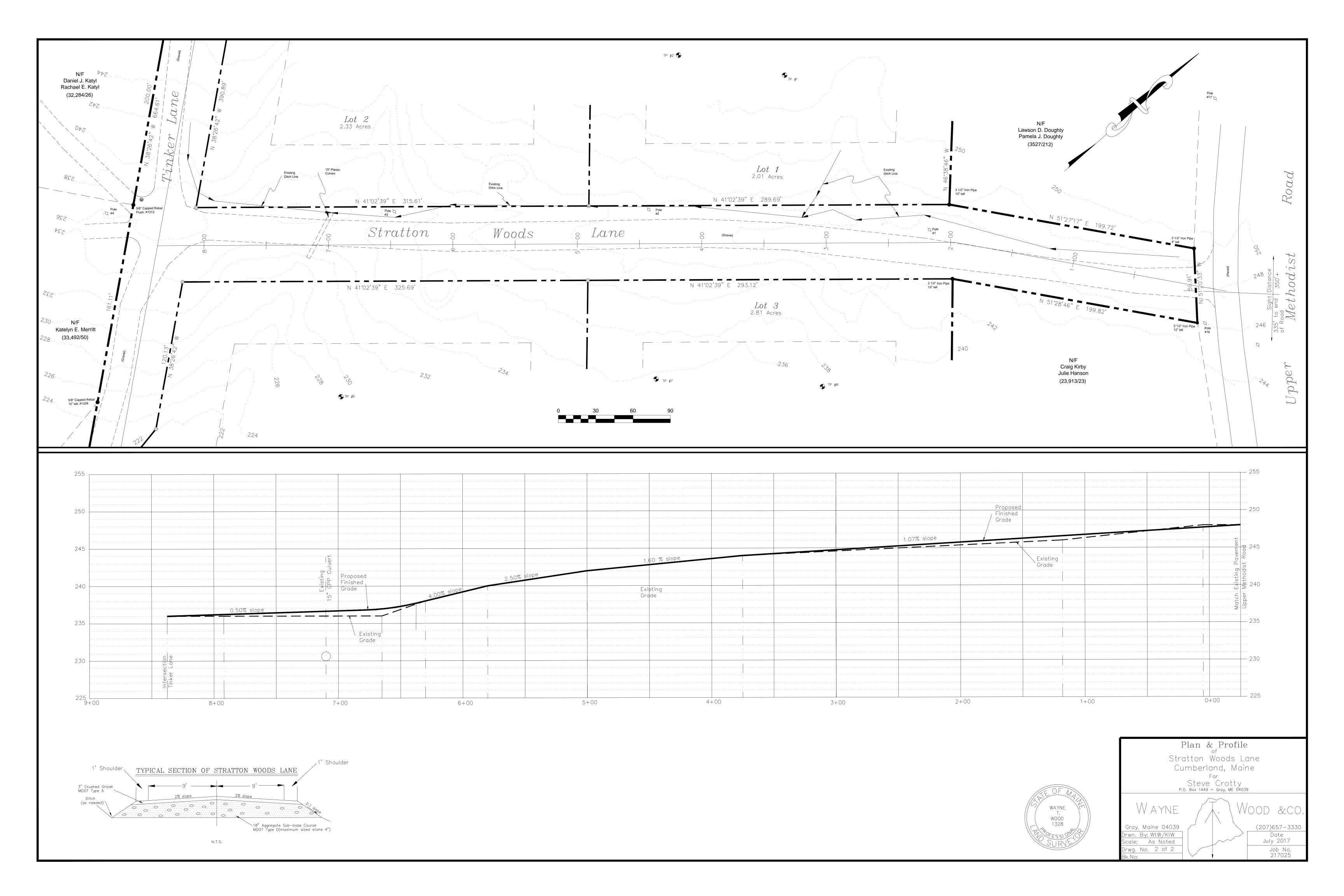
THIS SKETCH INDICATES THE INTENT OF THE SOIL EROSION MEASURES. ACTUAL SITE CONDITIONS AND LAYOUTS WILL VARY FROM SITE TO SITE.

BUILDING CONTRACTORS MUST COMPLY WITH THE EROSION CONTROL NOTES SHOWN ON THESE DRAWINGS AND WITH "MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES".

- A INSTALL SILT FENCE OR EROSION CONTROL BERM BELOW ALL DISTURBED AREAS.
- B KEEP CLEARING TO A MINIMUM.
- C RESEED ALL DISTURBED AREAS.
- D INSTALL STONE CHECK DAM(S) AND RIPRAP APRONS DOWNSTREAM OF CULVERT AS NECESSARY.

# BUILDING SITE EROSION CONTROL

NOT TO SCALE



## NOTES

180 . 178

174.

4375 sq.ft.

194 196 197 194

- 1. Owner of record is Ann A. Stratton by deed recorded in the Cumberland County Registry of Deeds in book 27,041 page 152.
- 2. All bearings are Magnetic of the year 1999 as per the plan in reference 2 and calculated from angles of an actual on the ground survey.
- 3. See deed recorded in the Cumberland County Registry of Deeds in book 16,180 page 73 for the Road Maintenance Agreement for Tinker Lane and Stratton Woods Lane.
- This property is shown as Lot 55 on Tax Map R07 and is in the RR2 Zoning District with the following minimum dimensional standards: Lot size = 2 acres, Frontage = 200', Front Setback = 50', Rear Setback = 75', Side Setback = 30' or combined 75'.
- 5. The total acerage of this property is 17.24 acres or 750,821 sq.ft.
- 6. The contours shown on this plan were taken from the Maine GIS 2' Lidar topography.
- 7. For soils and wetlands information see reports by Mark Hampton Associates, Inc. dated April 15, 2017.
- 8. The minimum setback between wells and septic systems is 100'.
- 9. The Town of Cumberland shall not be responsible for the maintenance repair, plowing or similar services for the private way shown on this plan.

## DOMESTIC WATER SUPPLY NOTES

- 1. Domestic water supply for Stratton Woods Subdivision will be private wells on individual lots.
- 2. This subdivision is located within the limits of the historical West Cumberland Well Advisory Zone established by MEDEP in 1992, associated with a former solvent spill.
- Before initial use, wells should be tested for volatile organic compounds (VOCS) utilizing US EPA method 8260 in addition to Maine Department of Health and Human Services (DHHS) drinking water quality standards. The homeowners should retest the wells after 5 years of use.
- 4. If VOCS are detected at levels exceeding rstablished State and Federal threshold limits, residences should be equiped with an appropriate point-of-entry treatment system or filter capable of providing potable water after treatment or filtration that meets established State and Federal drinking water standards.

Approved	by	the	Towr	n of
Cumberla	nď	Plan	ning	Board:

Signed:		
Date:		

## PLAN REFERENCES

N 41°48'16

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"Location Survey for Gene Stratton ~ Plan for a private way, Cumberland, Maine" dated 01/08/01 by Bruce R. Bowman, Inc.

N/F

Gene R. Stratton

(12,248/159)

<sup>.</sup>788.45**'** 

9275, sq.ft.

 $\bigcirc$ 

186 188. 190.

38°26'42" W 793.45'

- "Standard Boundary Survey for Habitat for Humanity of Greater Portland, Inc. of Plan for a Private Way off Upper Methodist Road, Cumberland, Maine" dated January 23, 1999 by Boundary Points Professional Land surveying.
- 3. "Standard Boundary Survey on Stratton Woods Lane & Tinker Lane, Cumberland, Maine for Gene R. Stratton" dated February 2006 by Wayne T. Wood & Co. recorded in the Cumberland County Registry of Deeds in plan book 207 page 563.
- 4. "Standard Boundary Survey on Upper Methodist Road in Cumberland, Maine for Virginia Copp" dated January 2007 by Wayne T. Wood & Co.
- 5. "Plan of Land on Blackstrap Road, Cumberland, Maine for Walnut Hill Investments, LLC" dated October 2016 by Wayne T. Wood & Co.

