DRAINAGE DATA:

STRUCTURE	RIM	INV. IN	INV. OUT	PIPE SIZE (IN.)
DMH #1	54.0	49.7	49.6	12
DMH #2	54.3	50.3	50.2	12
DMH #3	67.7	63.6	63.5	12
DMH #4	50.0	46.0	45.9	12
DMH #5	47.5	44.0	43.9	18
DMH #6	50.7	45.8	45.7	18
DMH #7	56.6	52.4	52.3	12
DMH #8	63.7	59.5	59.4	12
VORT. #1	42.0	37.8	37.7	12
CB #1	54.5	–	50.4	12
CB #2	54.8	–	50.9	12
CB #3	54.8	–	50.9	12
CB #4	68.9	–	64.6	12
CB #5	68.9	–	64.6	12
CB #6	49.8	–	46.0	12
CB #7	49.8	–	46.0	12
CB #8	56.8	–	52.7	12
CB #9	56.8	–	52.7	12
CB #10	64.9	–	60.8	12
CB #11	64.9	–	60.8	12
CB #12	41.9	–	37.8	12
CB #13	41.9	–	39.0	12
CB #14	47.0	–	43.5	12
LI #1	53.6	–	49.3	10
LI #2	50.8		49.6	10
OCS #1	–	48.1	–	12
OCS #2	–	46.0	–	12
FES #1	–	50.0	–	12
FES #2A	–	45.0	–	12
FES #2B	–	42.9	–	12
FES #2C	–	43.9	–	18
LEVEL SPREADER	–	37.0	–	12
FES #4	–	36.0	–	12

PROJECT NAME:

WENHAM PINES

56 & 60 Main Street
Wenham, MA 01984

APPLICANT:

WENHAM PINES LLC.

6 Kimball Lane
Lynnfield, MA 01940

OWNER:

ESTATE OF WILLIAM J. FLYNN

5 Barker Road
Boxford, MA 01921

HANCOCK ASSOCIATES

Civil Engineers

Land Surveyors

Wetland Scientists

185 CENTRE STREET, DANVERS, MA 01923
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COMMONWEALTH OF MASSACHUSETTS
VACLAV V. TALACKO
CIVIL
No. 34026
REGISTERED PROFESSIONAL ENGINEER
10/7/16

NO.	BY	APP	DATE	ISSUE/REVISION DESCRIPTION
1	JPC	RAT	10/5/16	PLANNING BOARD COMMENTS

DATE:	7/19/2016	DESIGN BY:	RAT
SCALE:	AS SHOWN	DRAWN BY:	JPC
APPRVD. BY:	VVT	CHECK BY:	DID/RAT

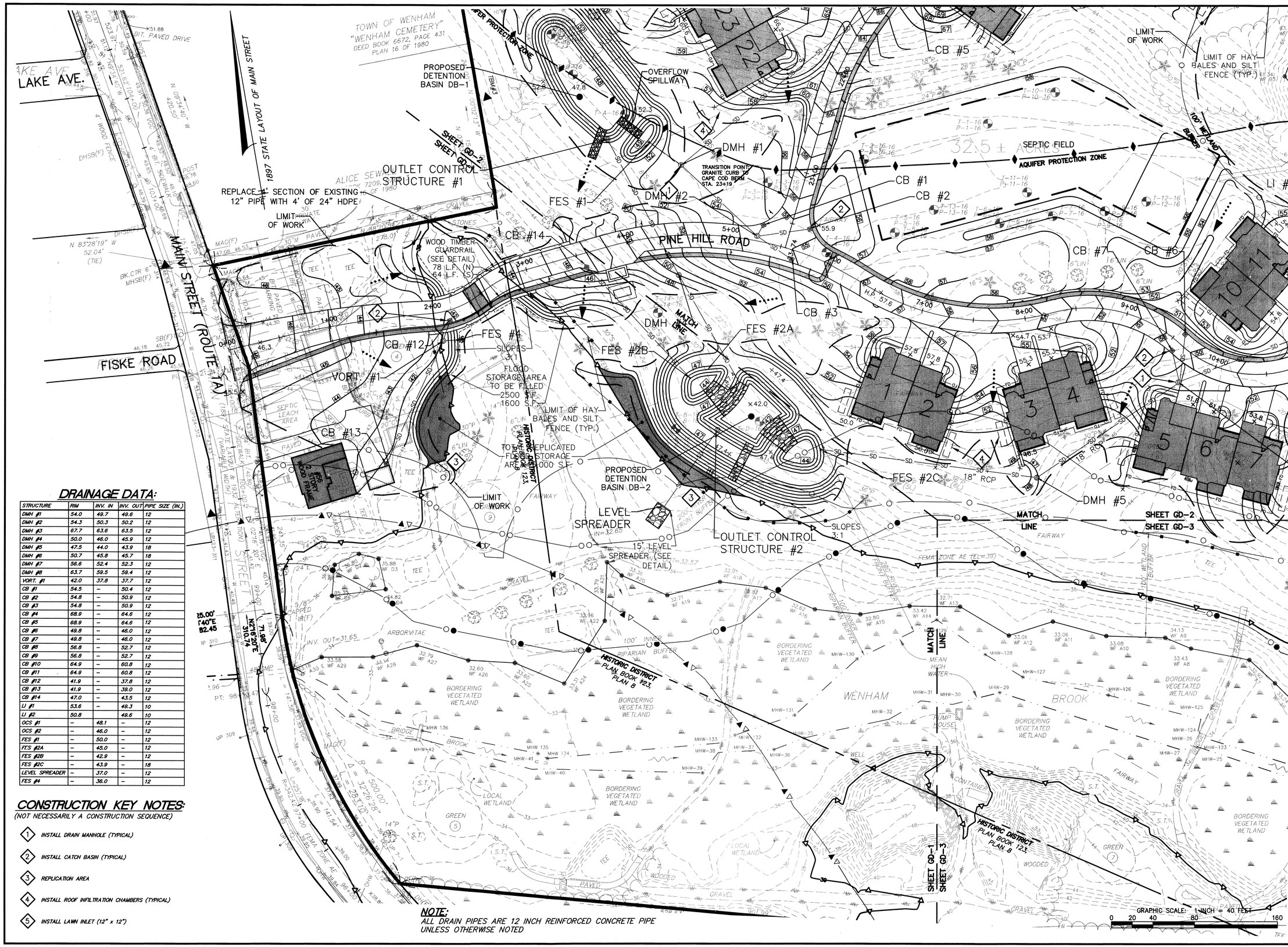
GRADING AND DRAINAGE OVERALL PLAN

PLOT DATE: Oct 10, 2016 6:08 pm
PATH: F:\Civil 3D Projects\19400\DWG\

DWG: 19400C1 160930.dwg
LAYOUT: GD
SHEET: 14 OF 36

GD

PROJECT NO.: 19400



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FES #2B	–	42.9	–	12
FES #2C	–	43.9	–	18
LEVEL SPREADER	–	37.0	–	12
FES #4	–	36.0	–	12

CONSTRUCTION KEY NOTES:

(NOT NECESSARILY A CONSTRUCTION SEQUENCE)

1. INSTALL DRAIN MANHOLE (TYPICAL)
2. INSTALL CATCH BASIN (TYPICAL)
3. REPLICATION AREA
4. INSTALL ROOF INFILTRATION CHAMBERS (TYPICAL)
5. INSTALL LAWN INLET (12" x 12")

NOTE:
ALL DRAIN PIPES ARE 12 INCH REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED

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DATE:	7/19/2016	DESIGN BY:	RAT
SCALE:	AS SHOWN	DRAWN BY:	JPC
APPRVD. BY:	VVT	CHECK BY:	RAT

GRADING AND DRAINAGE

PLOT DATE: Oct 10, 2016 6:08 pm
PATH: F:\Civil 3D Projects\19400\DWG\

DWG:	19400C1 160930.dwg
LAYOUT:	GD-1
SHEET:	15 OF 36
PROJECT NO.:	19400

GD-1

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FES #1	–	50.0	–	12
FES #2A	–	45.0	–	12
FES #2B	–	42.9	–	12
FES #2C	–	43.9	–	18
LEVEL SPREADER	–	37.0	–	12
FES #4	–	36.0	–	12

NOTE:
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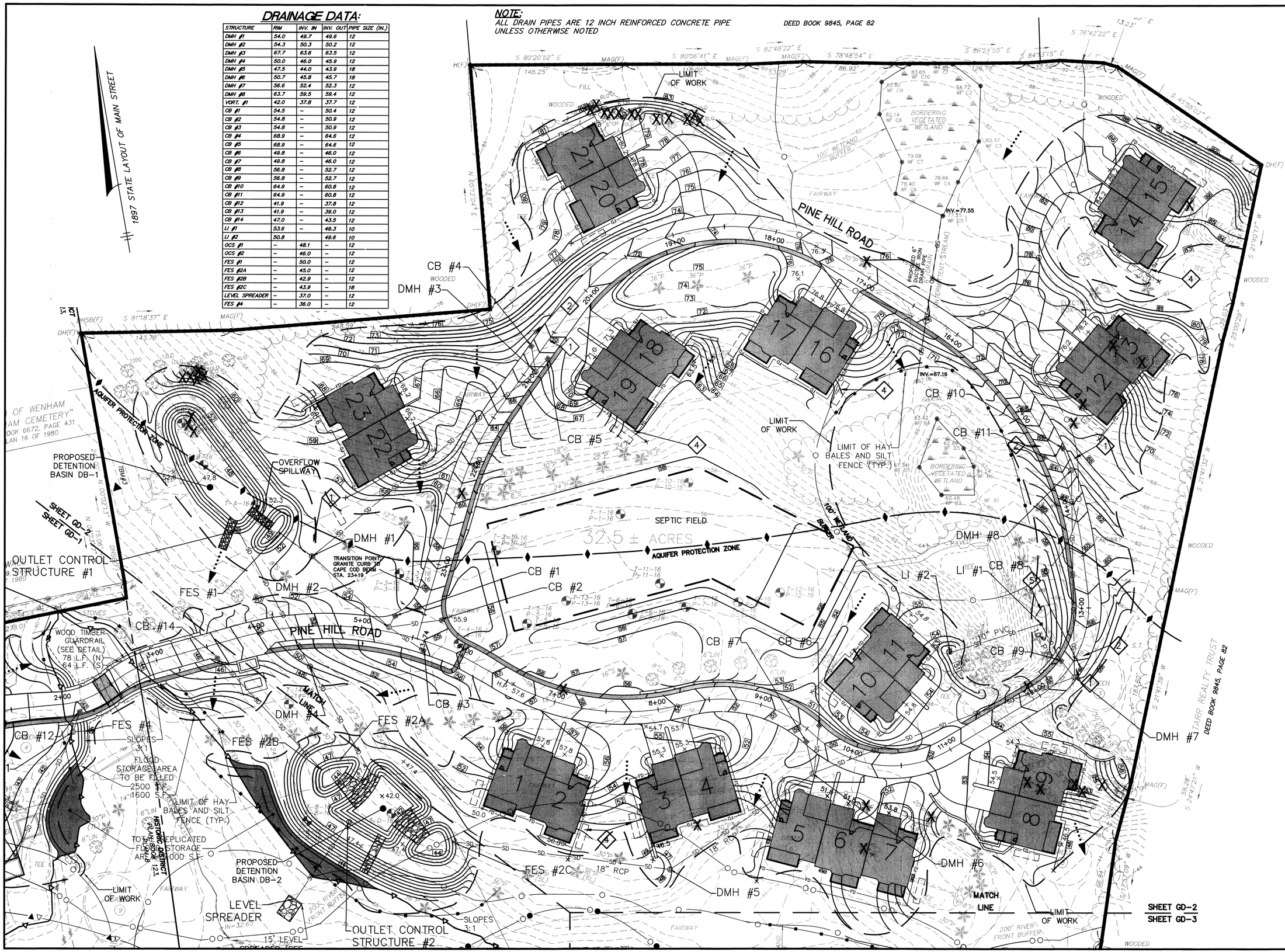
DEED BOOK 9845, PAGE 82



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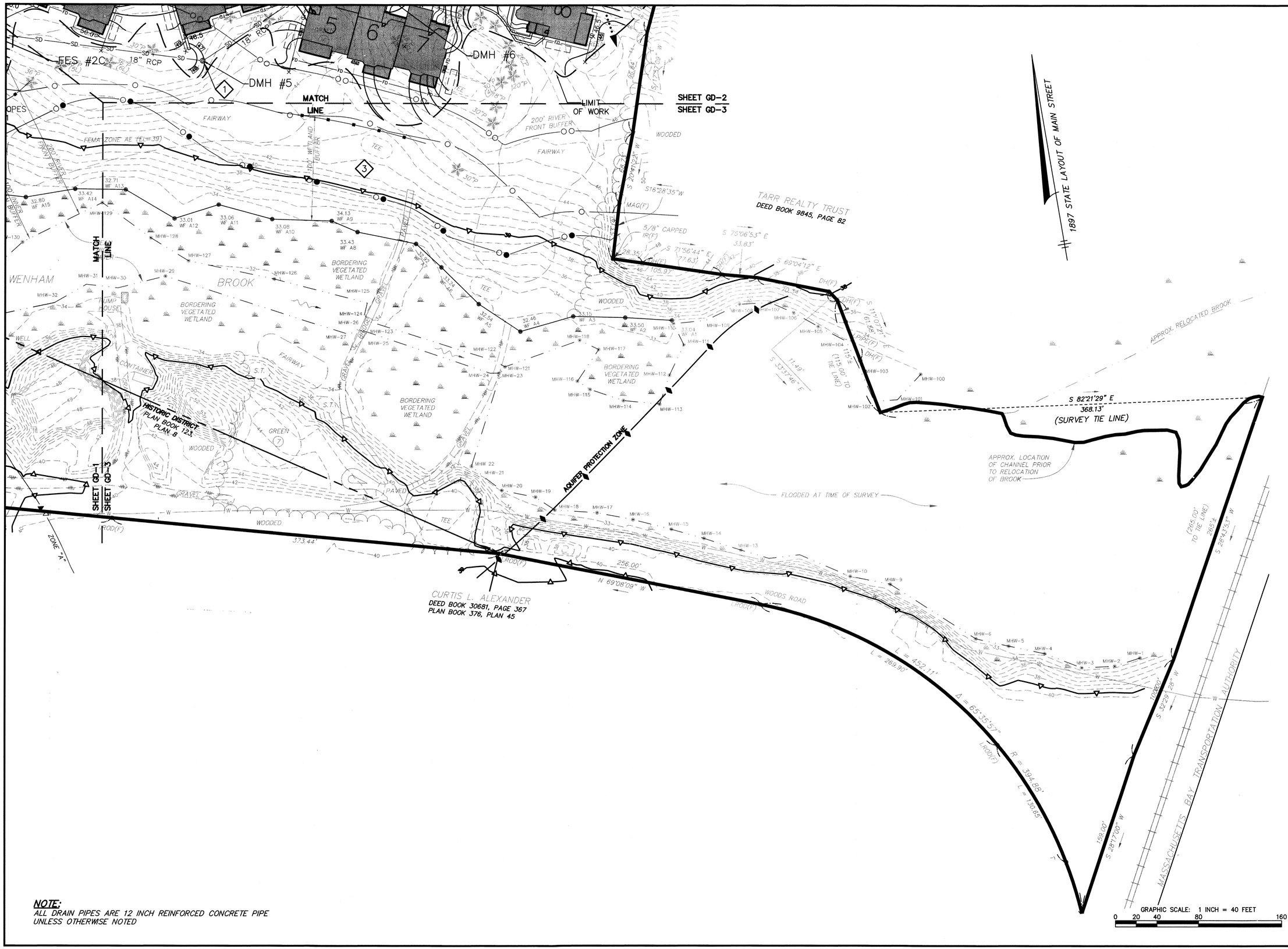
DATE:	7/19/2016	DESIGN BY:	RAT
SCALE:	AS SHOWN	DRAWN BY:	JPC
APPRVD. BY:	VVT	CHECK BY:	RAT

GRADING AND DRAINAGE (W/TREES TO BE REMOVED)

PLOT DATE: Oct 10, 2016 6:09 pm
PATH: F:\Civil 3D Projects\19400\DWG\

DWG:	19400C1 160930.dwg
LAYOUT:	GD-2
SHEET:	16 OF 36
PROJECT NO.:	19400

GD-2



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GRADING AND DRAINAGE

PLOT DATE: Oct 10, 2016 6:09 pm
PATH: F:\Civil 3D Projects\19400\DWG\

DWG: 19400C1 16093D.dwg
LAYOUT: GD-3
SHEET: 17 OF 36

GD-3

PROJECT NO.: 19400