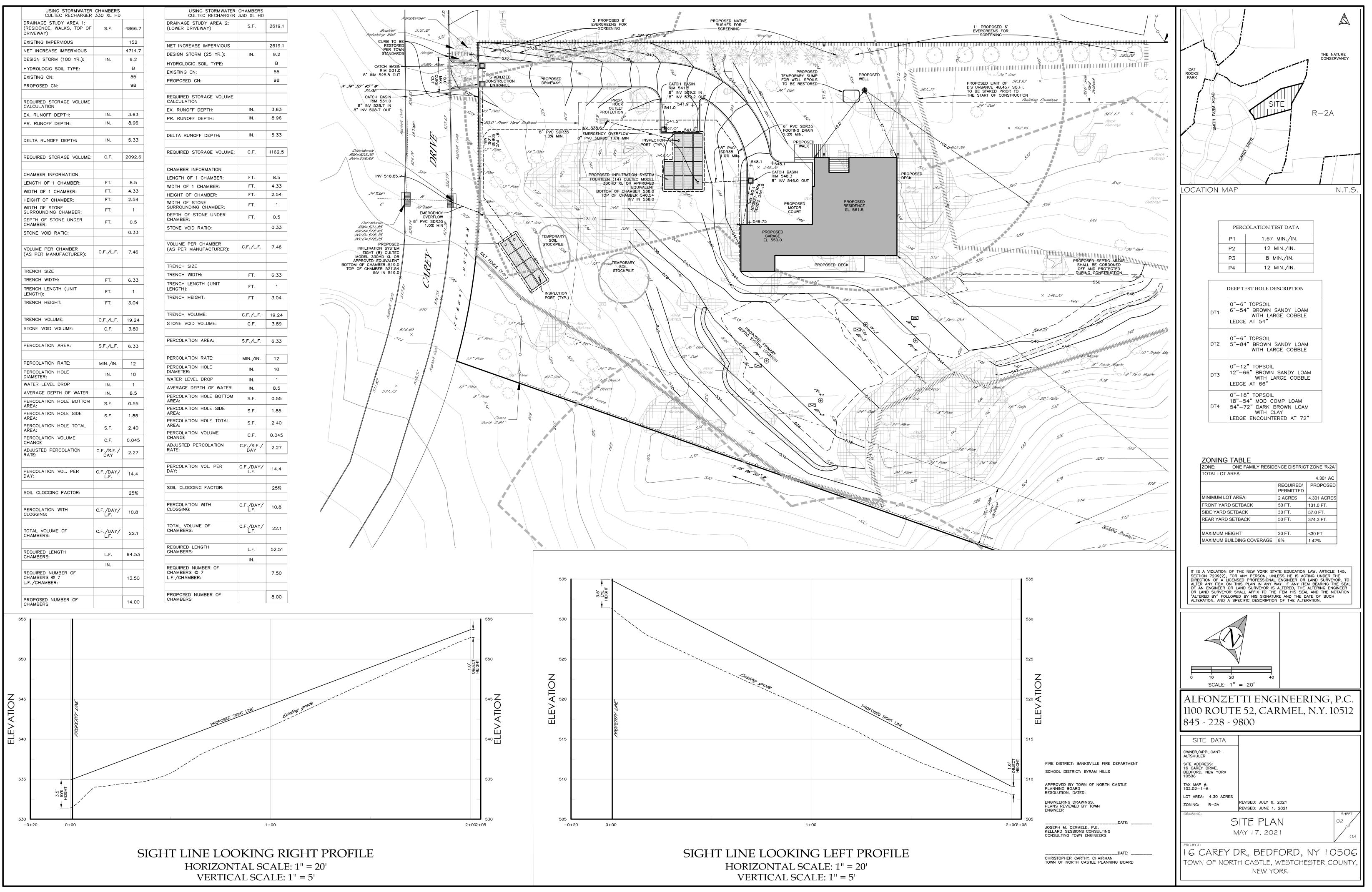
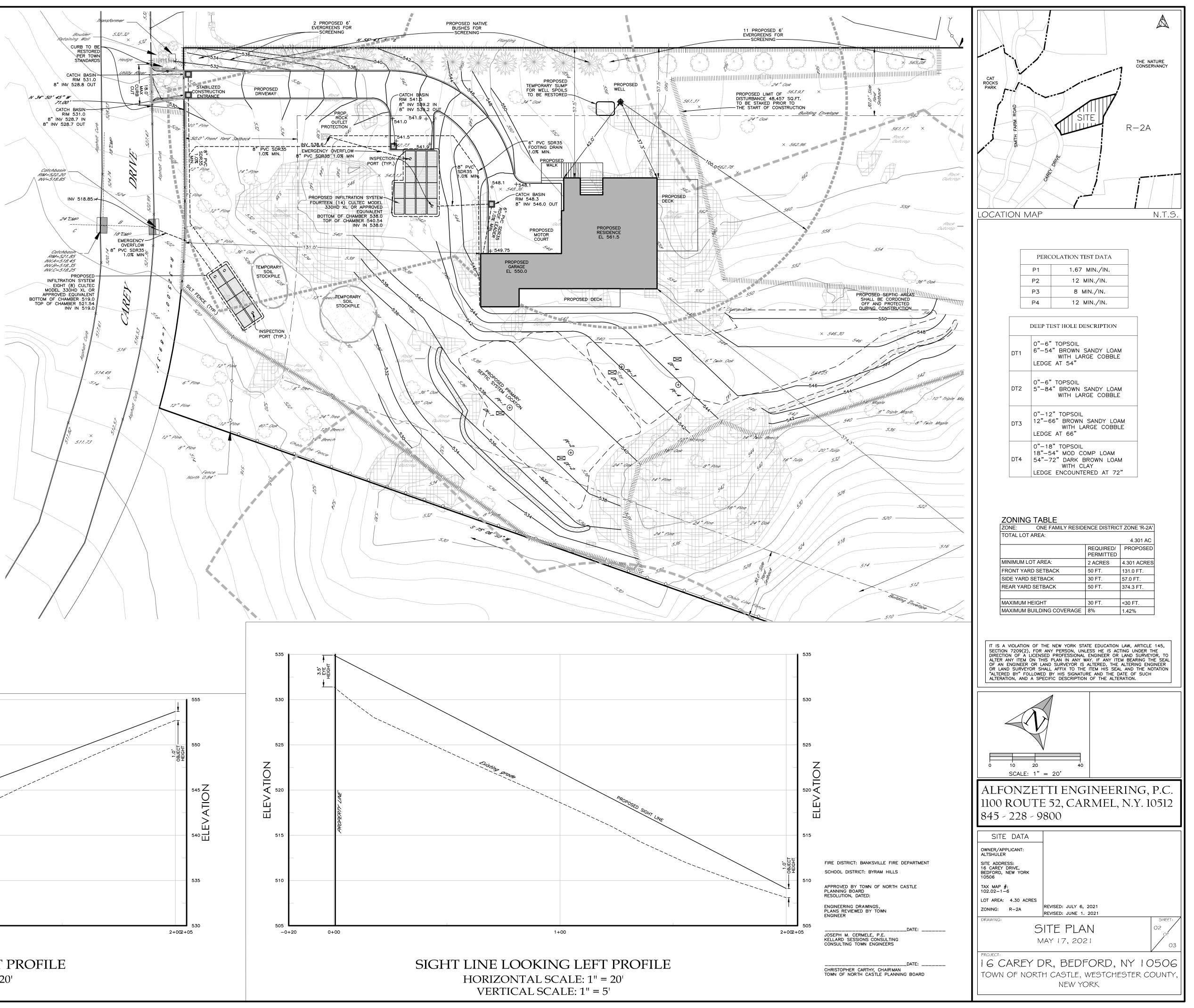


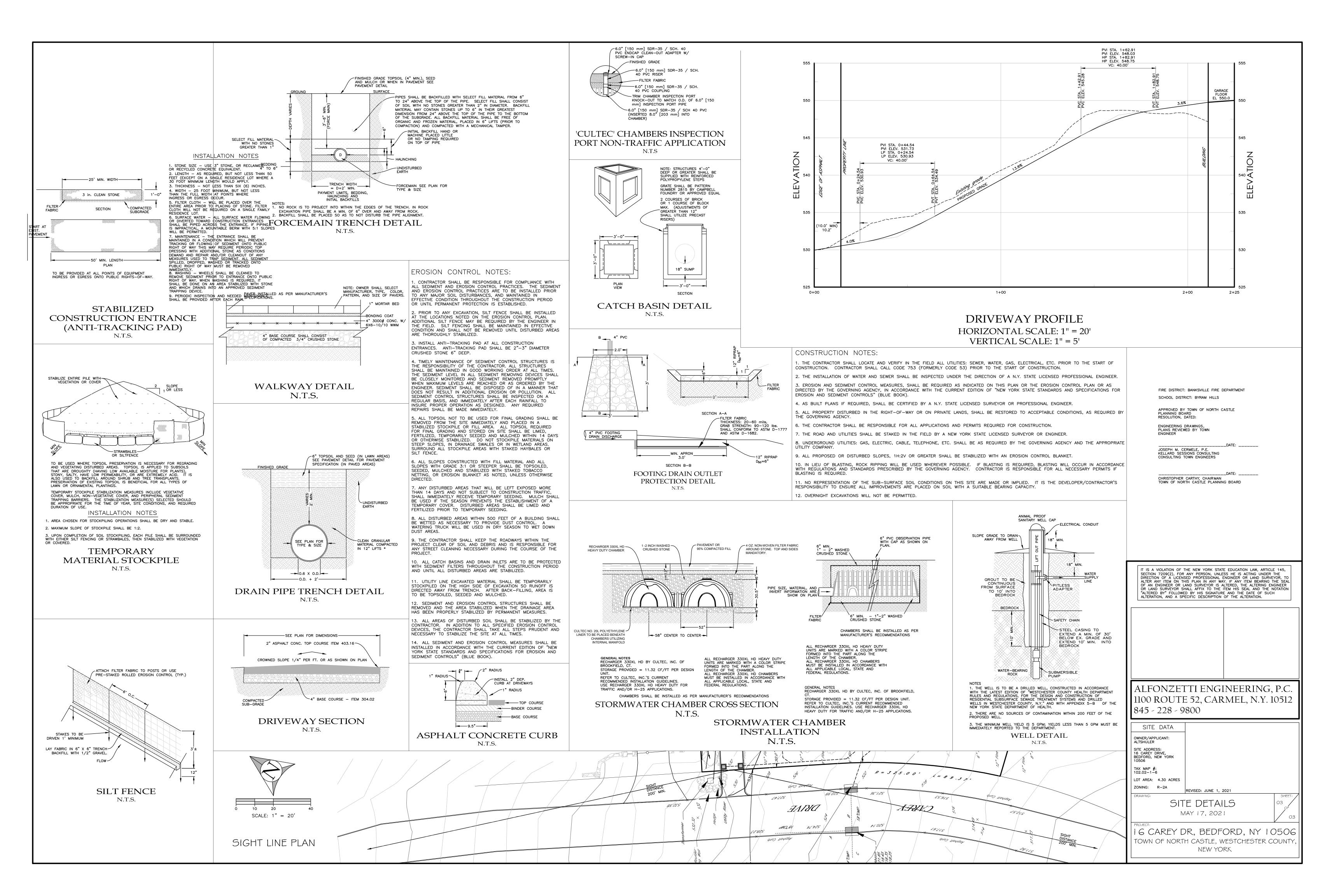
# HORIZONTAL SCALE: 1'' = 20'VERTICAL SCALE: 1'' = 5'

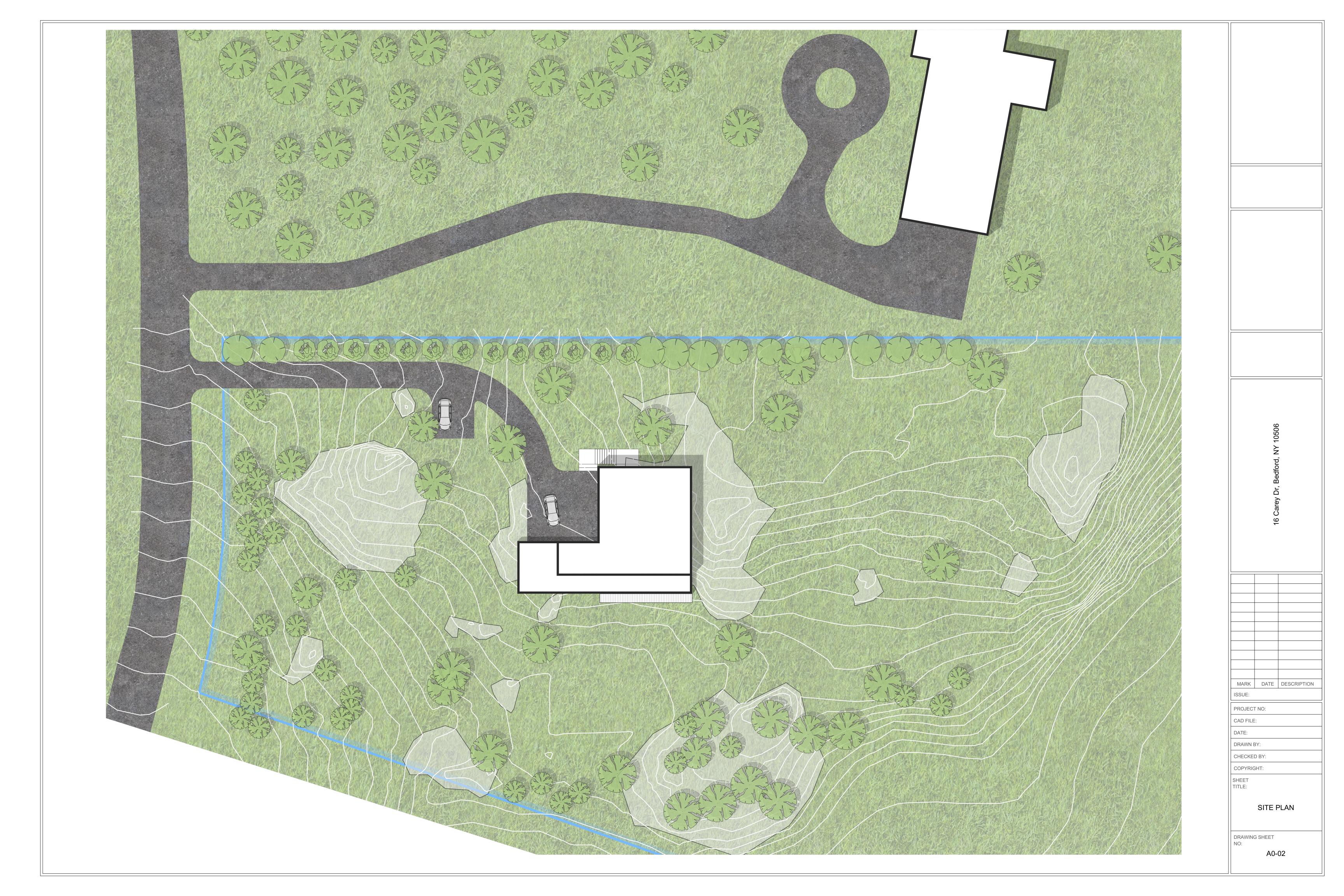


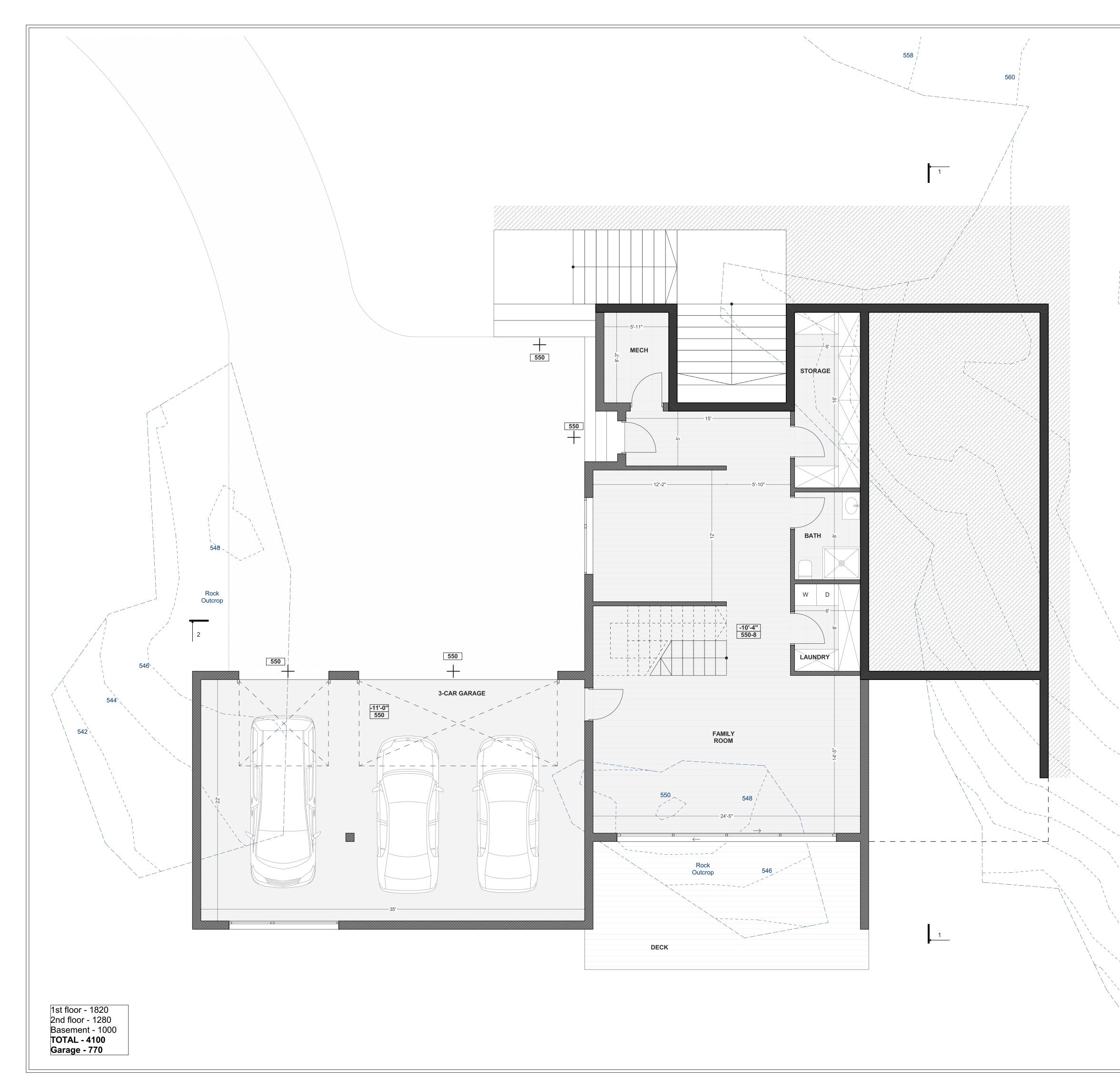
DRAINAGE STUDY AREA 1: (RESIDENCE, WALKS, TOP OF DRIVEWAY)	S.F.	4866.7
EXISTING IMPERVIOUS		152
NET INCREASE IMPERVIOUS		4714.7
DESIGN STORM (100 YR.):	IN.	9.2
HYDROLOGIC SOIL TYPE:		В
EXISTING CN:		55
PROPOSED CN:		98
REQUIRED STORAGE VOLUME		
	INI	7.67
EX. RUNOFF DEPTH:	IN.	3.63 8.96
PR. RUNOFF DEPTH:	lin.	0.90
DELTA RUNOFF DEPTH:	IN.	5.33
REQUIRED STORAGE VOLUME:	C.F.	2092.6
CHAMBER INFORMATION		
LENGTH OF 1 CHAMBER:	FT.	8.5
WIDTH OF 1 CHAMBER:	FT.	4.33
HEIGHT OF CHAMBER:	FT.	2.54
WIDTH OF STONE SURROUNDING CHAMBER:	FT.	1
DEPTH OF STONE UNDER		
CHAMBER:	FT.	0.5
STONE VOID RATIO:		0.33
VOLUME PER CHAMBER (AS PER MANUFACTURER):	C.F./L.F.	7.46
·		
TRENCH SIZE		
TRENCH WIDTH:	FT.	6.33
TRENCH LENGTH (UNIT	FT.	1
LENGTH):		
TRENCH HEIGHT:	FT.	3.04
TRENCH VOLUME:		10.01
	C.F./L.F.	19.24
STONE VOID VOLUME:	C.F.	3.89
PERCOLATION AREA:		0.77
	S.F./L.F.	6.33
PERCOLATION RATE:	MIN./IN.	12
PERCOLATION HOLE		
DIAMETER:	IN.	10
WATER LEVEL DROP	IN.	1
AVERAGE DEPTH OF WATER	IN.	8.5
PERCOLATION HOLE BOTTOM AREA:	S.F.	0.55
PERCOLATION HOLE SIDE	S.F.	1.85
AREA: PERCOLATION HOLE TOTAL		
AREA:	S.F.	2.40
PERCOLATION VOLUME CHANGE	C.F.	0.045
ADJUSTED PERCOLATION RATE:	C.F./S.F./ DAY	2.27
		<u> </u>
PERCOLATION VOL. PER	C.F./DAY/	14.4
DAY:	Ĺ.F.	17.4
		075
SOIL CLOGGING FACTOR:		25%
PERCOLATION WITH		
CLOGGING:	C.F./DAY/ L.F.	10.8
TOTAL VOLUME OF CHAMBERS:	C.F./DAY/ L.F.	22.1
	L.F.	
REQUIRED LENGTH	. –	o
REQUIRED LENGTH CHAMBERS:	L.F.	94.53
	L.F. IN.	94.53
CHAMBERS: REQUIRED NUMBER OF		94.53 13.50
CHAMBERS: REQUIRED NUMBER OF CHAMBERS © 7		

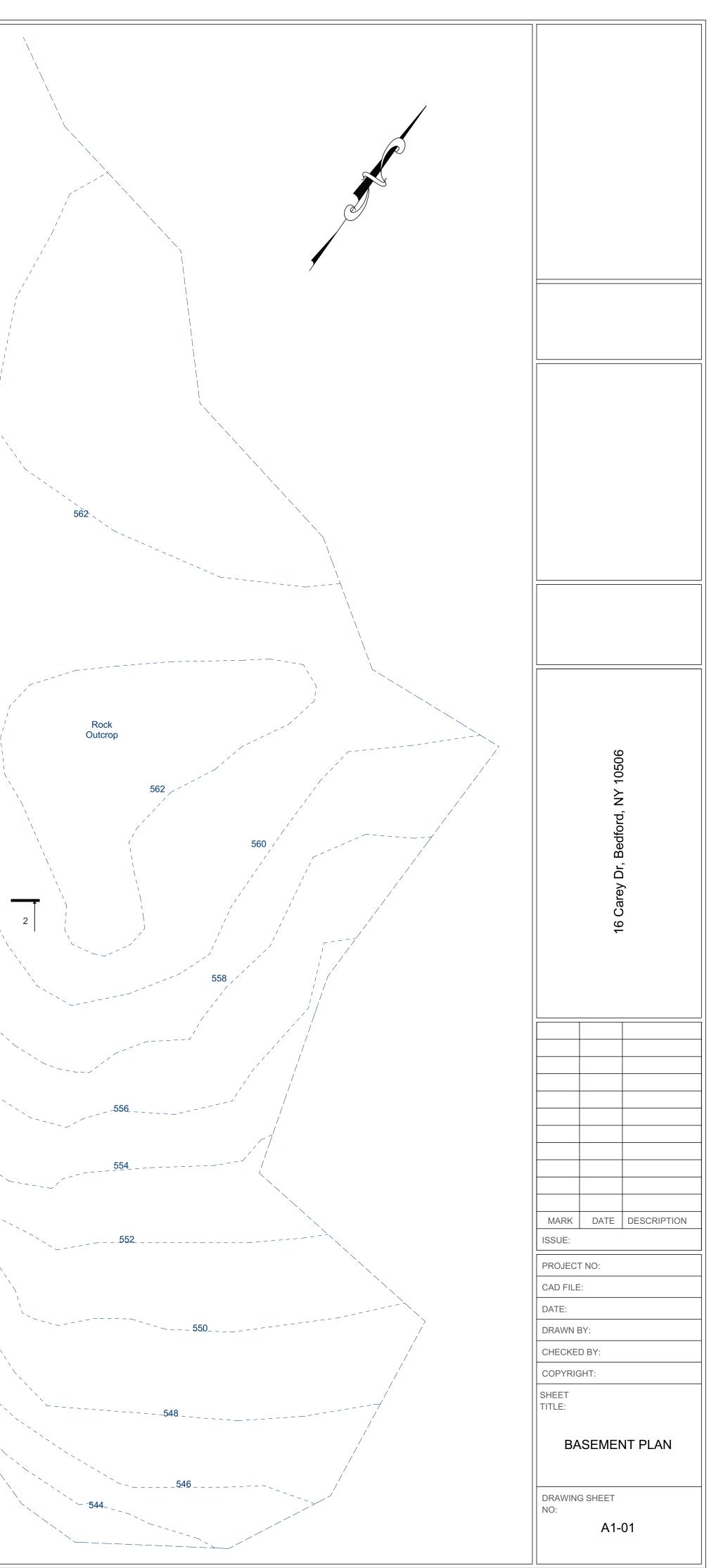
DRAINAGE STUDY AREA 2: (LOWER DRIVEWAY)	S.F.	2619.1
NET INCREASE IMPERVIOUS		2619.1
DESIGN STORM (25 YR.):	IN.	9.2
HYDROLOGIC SOIL TYPE:		В
EXISTING CN:		55
PROPOSED CN:		98
REQUIRED STORAGE VOLUME CALCULATION		
EX. RUNOFF DEPTH:	IN.	3.63
PR. RUNOFF DEPTH:	IN.	8.96
DELTA RUNOFF DEPTH:	IN.	5.33
REQUIRED STORAGE VOLUME:	C.F.	1162.5
CHAMBER INFORMATION		
LENGTH OF 1 CHAMBER:	FT.	8.5
WIDTH OF 1 CHAMBER:	FT.	4.33
HEIGHT OF CHAMBER:	FT.	2.54
WIDTH OF STONE SURROUNDING CHAMBER:	FT.	1
DEPTH OF STONE UNDER	FT	0.5
CHAMBER:	FT.	0.5
STONE VOID RATIO:		0.33
VOLUME PER CHAMBER (AS PER MANUFACTURER):	C.F. /L.F.	7.46
TRENCH SIZE		
TRENCH WIDTH:	FT.	6.33
TRENCH LENGTH (UNIT		
LENGTH):	FT.	1
TRENCH HEIGHT:	FT.	3.04
TRENCH VOLUME.		10.04
TRENCH VOLUME:	C.F./L.F.	19.24 3.89
TRENCH VOLUME: STONE VOID VOLUME:	C.F. /L.F. C.F.	19.24 3.89
STONE VOID VOLUME:	C.F.	3.89
STONE VOID VOLUME:	C.F.	3.89
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE	C.F. S.F./L.F.	3.89 6.33
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER:	C.F. S.F./L.F. MIN./IN.	3.89 6.33 12 10
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER: WATER LEVEL DROP	C.F. S.F. /L.F. MIN. /IN. IN.	3.89 6.33 12 10 1
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER:	C.F. S.F. /L.F. MIN. /IN. IN. IN.	3.89 6.33 12 10 1 8.5
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER: WATER LEVEL DROP AVERAGE DEPTH OF WATER PERCOLATION HOLE BOTTOM AREA:	C.F. S.F. /L.F. MIN. /IN. IN.	3.89 6.33 12 10 1
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER: WATER LEVEL DROP AVERAGE DEPTH OF WATER PERCOLATION HOLE BOTTOM	C.F. S.F. /L.F. MIN. /IN. IN. IN.	3.89 6.33 12 10 1 8.5
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER: WATER LEVEL DROP AVERAGE DEPTH OF WATER PERCOLATION HOLE BOTTOM AREA: PERCOLATION HOLE SIDE	C.F. S.F./L.F. MIN./IN. IN. IN. S.F.	3.89 6.33 12 10 1 8.5 0.55
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER: WATER LEVEL DROP AVERAGE DEPTH OF WATER PERCOLATION HOLE BOTTOM AREA: PERCOLATION HOLE SIDE AREA: PERCOLATION HOLE TOTAL AREA: PERCOLATION VOLUME	C.F. S.F. /L.F. MIN. /IN. IN. IN. S.F. S.F. S.F.	3.89 6.33 12 10 1 8.5 0.55 1.85 2.40
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER: WATER LEVEL DROP AVERAGE DEPTH OF WATER PERCOLATION HOLE BOTTOM AREA: PERCOLATION HOLE SIDE AREA: PERCOLATION HOLE TOTAL AREA: PERCOLATION VOLUME CHANGE	C.F. S.F. /L.F. MIN. /IN. IN. IN. S.F. S.F. S.F. C.F.	3.89 6.33 12 10 1 8.5 0.55 1.85 2.40 0.045
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER: WATER LEVEL DROP AVERAGE DEPTH OF WATER PERCOLATION HOLE BOTTOM AREA: PERCOLATION HOLE SIDE AREA: PERCOLATION HOLE TOTAL AREA: PERCOLATION VOLUME	C.F. S.F. /L.F. MIN. /IN. IN. IN. S.F. S.F. S.F.	3.89 6.33 12 10 1 8.5 0.55 1.85 2.40
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER: WATER LEVEL DROP AVERAGE DEPTH OF WATER PERCOLATION HOLE BOTTOM AREA: PERCOLATION HOLE SIDE AREA: PERCOLATION HOLE TOTAL AREA: PERCOLATION VOLUME CHANGE ADJUSTED PERCOLATION	C.F. S.F./L.F. MIN./IN. IN. IN. S.F. S.F. S.F. C.F.	3.89 6.33 12 10 1 8.5 0.55 1.85 2.40 0.045
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER: WATER LEVEL DROP AVERAGE DEPTH OF WATER PERCOLATION HOLE BOTTOM AREA: PERCOLATION HOLE SIDE AREA: PERCOLATION HOLE TOTAL AREA: PERCOLATION VOLUME CHANGE ADJUSTED PERCOLATION RATE: PERCOLATION VOL. PER	C.F. S.F./L.F. MIN./IN. IN. IN. S.F. S.F. S.F. C.F. C.F./DAY/	3.89 6.33 12 10 1 8.5 0.55 1.85 2.40 0.045 2.27
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER: WATER LEVEL DROP AVERAGE DEPTH OF WATER PERCOLATION HOLE BOTTOM AREA: PERCOLATION HOLE SIDE AREA: PERCOLATION HOLE TOTAL AREA: PERCOLATION VOLUME CHANGE ADJUSTED PERCOLATION RATE: PERCOLATION VOL. PER DAY:	C.F. S.F./L.F. MIN./IN. IN. IN. S.F. S.F. S.F. C.F. C.F./DAY/	3.89 6.33 12 10 1 8.5 0.55 1.85 2.40 0.045 2.27 14.4
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER: WATER LEVEL DROP AVERAGE DEPTH OF WATER PERCOLATION HOLE BOTTOM AREA: PERCOLATION HOLE SIDE AREA: PERCOLATION HOLE TOTAL AREA: PERCOLATION VOLUME CHANGE ADJUSTED PERCOLATION RATE: PERCOLATION VOL. PER DAY: SOIL CLOGGING FACTOR: PERCOLATION WITH	C.F. S.F./L.F. MIN./IN. IN. IN. S.F. S.F. C.F. C.F./DAY/ L.F. C.F./DAY/	3.89 6.33 12 10 1 8.5 0.55 1.85 2.40 0.045 2.27 14.4 2.5%
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER: WATER LEVEL DROP AVERAGE DEPTH OF WATER PERCOLATION HOLE BOTTOM AREA: PERCOLATION HOLE SIDE AREA: PERCOLATION HOLE TOTAL AREA: PERCOLATION VOLUME CHANGE ADJUSTED PERCOLATION RATE: PERCOLATION VOL. PER DAY: SOIL CLOGGING FACTOR: PERCOLATION WITH CLOGGING: TOTAL VOLUME OF	C.F./DAY/ C.F./DAY/ C.F./DAY/ C.F./DAY/ C.F./DAY/ C.F./DAY/ C.F./DAY/	3.89 6.33 12 10 1 8.5 0.55 1.85 2.40 0.045 2.27 14.4 2.5% 10.8
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER: WATER LEVEL DROP AVERAGE DEPTH OF WATER PERCOLATION HOLE BOTTOM AREA: PERCOLATION HOLE SIDE AREA: PERCOLATION HOLE TOTAL AREA: PERCOLATION VOLUME CHANGE ADJUSTED PERCOLATION RATE: PERCOLATION VOL. PER DAY: SOIL CLOGGING FACTOR: PERCOLATION WITH CLOGGING: TOTAL VOLUME OF CHAMBERS: REQUIRED LENGTH	C.F. /L.F. S.F. /L.F. MIN. /IN. IN. IN. S.F. S.F. C.F. /S.F./ DAY C.F. /DAY/ L.F. C.F. /DAY/ L.F. C.F. /DAY/	3.89 6.33 12 10 1 8.5 0.55 1.85 2.40 0.045 2.27 14.4 25% 10.8
STONE VOID VOLUME: PERCOLATION AREA: PERCOLATION RATE: PERCOLATION HOLE DIAMETER: WATER LEVEL DROP AVERAGE DEPTH OF WATER PERCOLATION HOLE BOTTOM AREA: PERCOLATION HOLE SIDE AREA: PERCOLATION HOLE TOTAL AREA: PERCOLATION VOLUME CHANGE ADJUSTED PERCOLATION RATE: PERCOLATION VOL. PER DAY: SOIL CLOGGING FACTOR: PERCOLATION WITH CLOGGING: TOTAL VOLUME OF CHAMBERS: REQUIRED LENGTH	C.F. /L.F. MIN. /IN. IN. IN. IN. S.F. S.F. C.F. /C.F. C.F. /DAY/ C.F. /DAY/ L.F. C.F. /DAY/ L.F.	3.89 6.33 12 10 1 8.5 0.55 1.85 2.40 0.045 2.27 14.4 25% 10.8

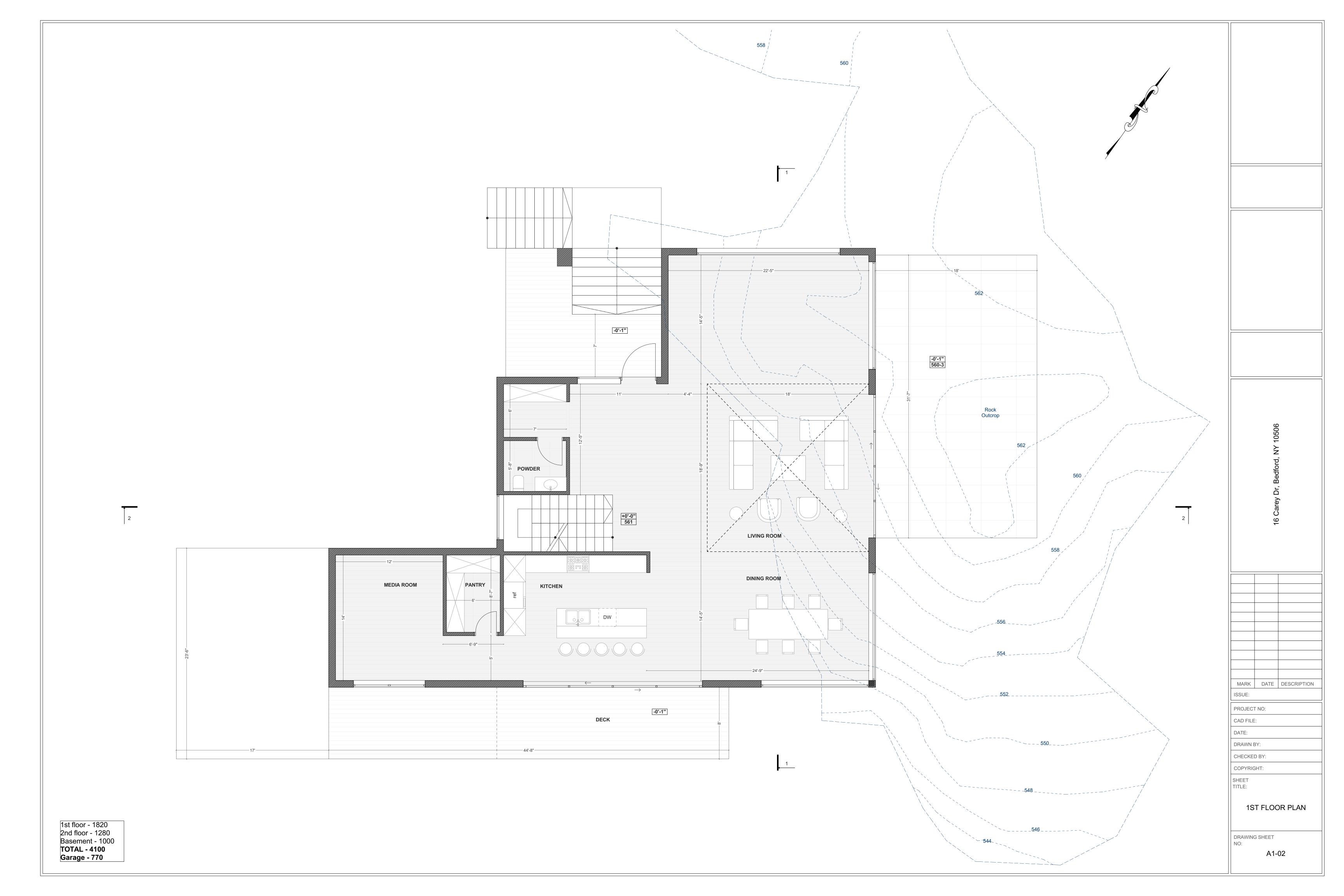




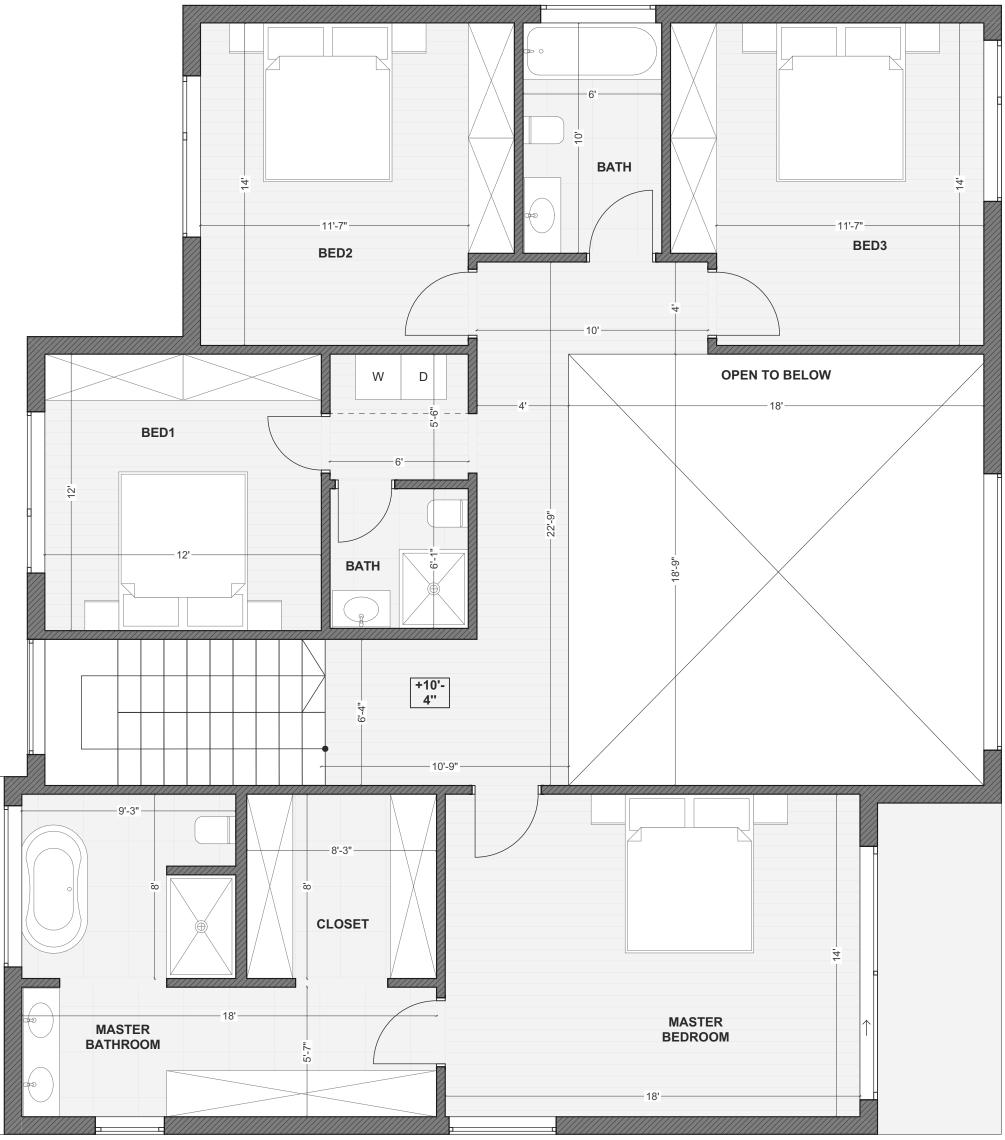








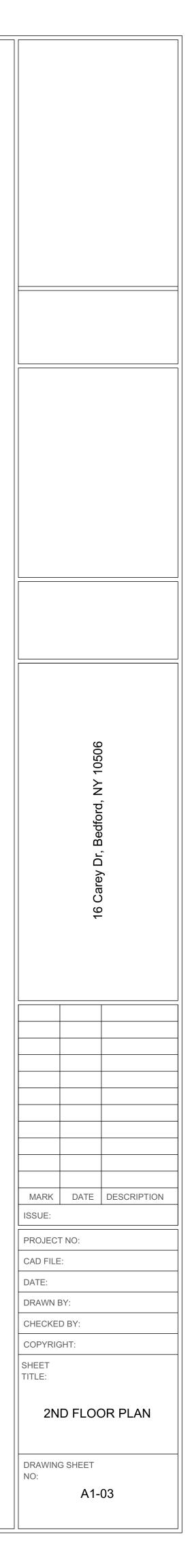
1st floor - 1820 2nd floor - 1280 Basement - 1000 **TOTAL - 4100 Garage - 770**  2

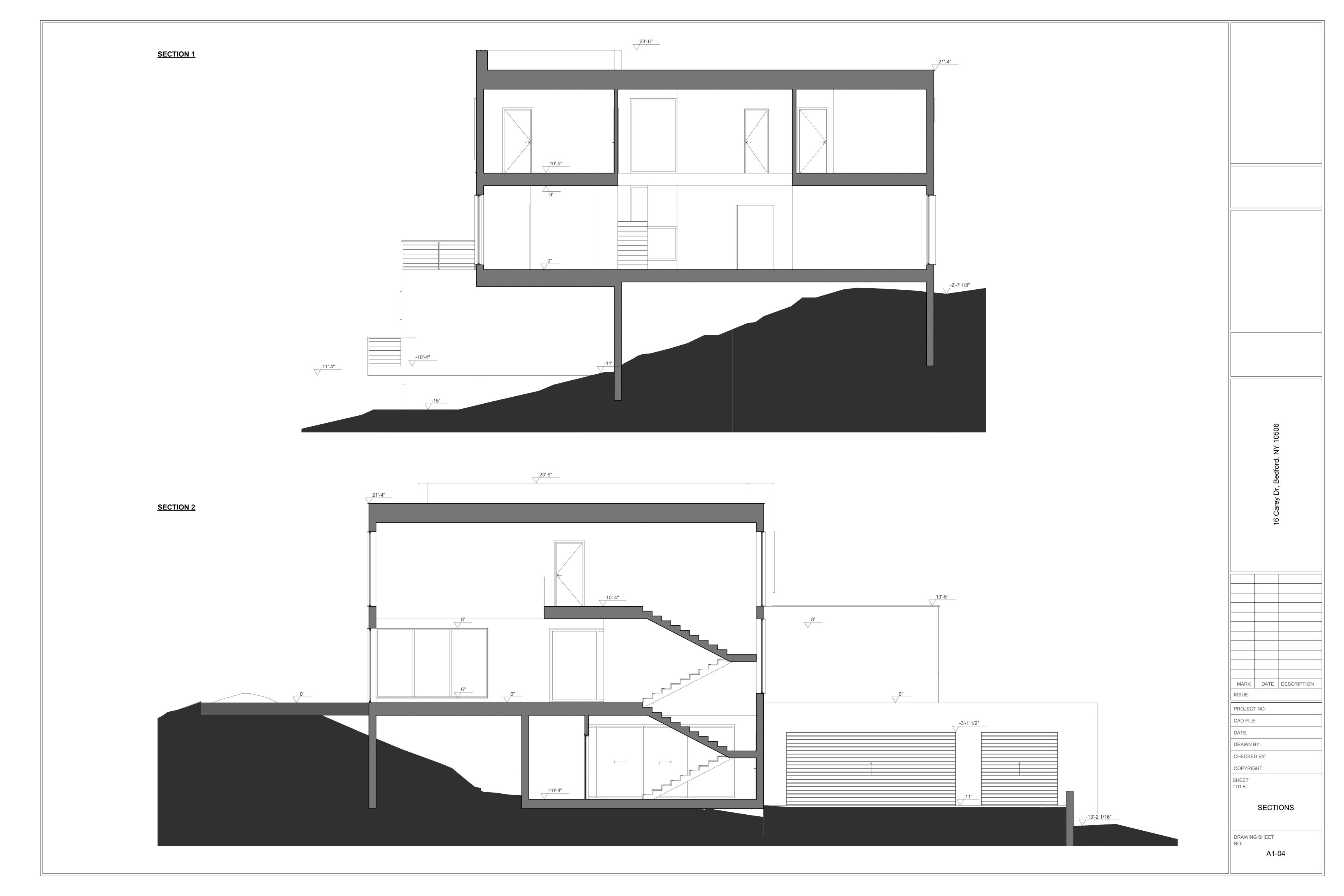


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#### SOUTH ELEVATION

#### WEST ELEVATION

### **Elevation materials**



Wood clapboard



Fiber cement













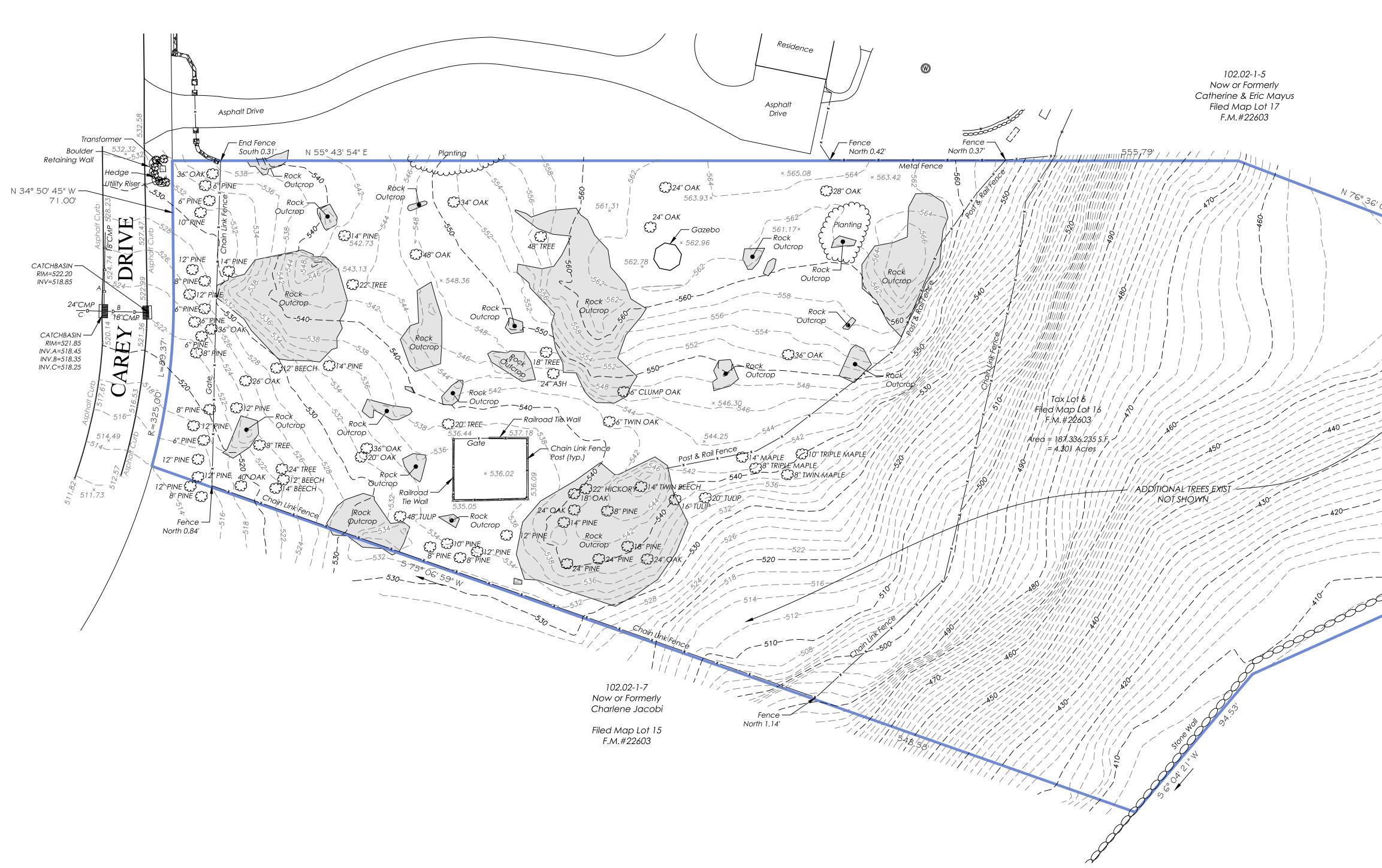












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Underground utilities shown hereon are approximate and should be verified before excavating. Additional underground utilities are not shown or certified.

Encroachments and structures below grade, if any, not shown or certified.

Subject to covenants, easements, restrictions, conditions and agreements of record.

This map is prepared to show topography only and is not to be used for title transfer purposes. Map may not be certified to title companies and/or banks.

Tree species shown hereon to be verified by a licensed arborist and are not certified by surveyor.

Elevations shown hereon generally in accordance with North American Vertical Datum 88.

Premises hereon being Lot 16 as shown on a certain map entitled, "Subdivision of Property known as Castlebrook Estates, situate in the Town of North Castle, Westchester County, NY." Said map filed in the Westchester County Clerk's Office, Division of Land Records on January 22, 1987 as map number 22603.

Surveyed in accordance with Deed Liber 12215, Page 196.

Premises shown hereon designated on the Town of North Castle Tax Maps as: Section 102.02, Block 1, Lot 6.

Property Address: 16 Carey Drive Bedford, NY 10506

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## TC MERRITTS LAND SURVEYORS

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