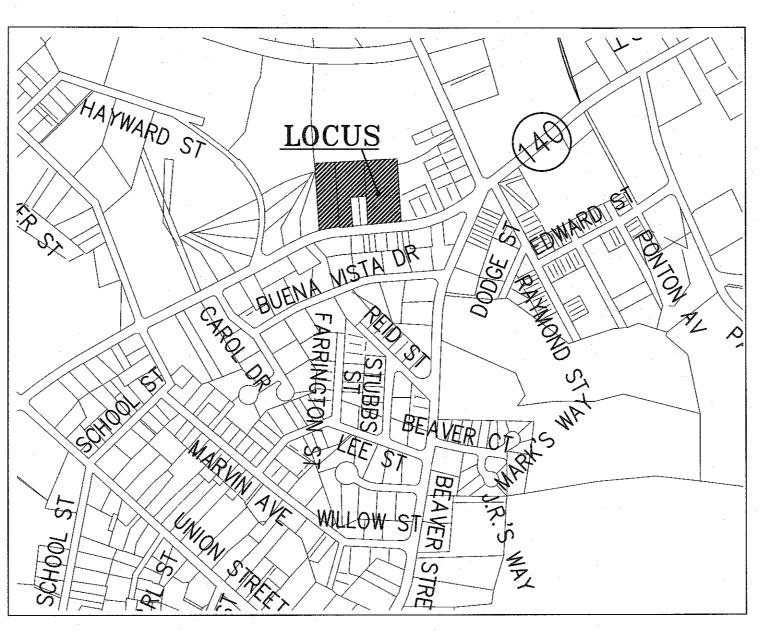
# SITE PLAN

# HIGHLAND VILLAGE 278-300 WEST CENTRAL STREET FRANKLIN, MASSACHUSETTS

# INDEX

- 1. COVER SHEET
- 2. EXISTING CONDITIONS
- 3. PROPOSED LAYOUT
- 4. PROFILE
- 5. DEMOLITION & EROSION CONTROL PLAN
- 6. PROPOSED GRADING & DRAINAGE
- 7. PROPOSED UTILITIES
- 8. PROPOSED LANDSCAPING
- 9. PHOTOMETRIC PLAN
- 10. AUTOTURN FOR FIRE TRUCK
- 11-13 CONSTRUCTION DETAILS

ARCHITECTURAL PLANS



VICINITY MAP 1"=500'

APPLICANT JOEL D'ERRICO 72 DEERVIEW WAY FRANKLIN, MA 02038

ARCHITECT MICHAEL J. KONOSKY ASSOCIATES 842 UPPER UNION STREET FRANKLIN, MA. 02038

LOCUS:

280 WEST CENTRAL STREET JOEL D'ERRICO A.M. 278 LOT 32 DEED BK 33822 PG 200

300 WEST CENTRAL STREET A.M. 278 LOT 35 DEED BK 33822 PG 200

278 WEST CENTRAL STREET DOUBLE J DEVELOPMENT LLC A.M. 278 LOT 31 DEED BK. 29771 PG. 94

APPROVED DATE: FRANKLIN PLANNING BOARD BEING A MAJORITY PROFESSIONAL LAND SURVEYOR <u>APPLICANT</u> JOEL D'ERRICO 72 DEERVIEW WAY FRANKLIN, MA 02038 REVISIONS REVISED 11/20/17 | WIDEN ROADWAY TO 24', ADDED SIDEWALK AND PAVERS FOR FIRE ACCESS Guerriere

Ph. (508) 528–3221 55 WEST CENTRAL STREET Fx. (508) 528–7921 FRANKLIN, MA 02038 www.guerriereandhalnon.com

SITE PLAN

HIGHLAND VILLAGE 278-300 WEST CENTRAL STREET

> FRANKLIN **MASSACHUSETTS**

> > COVER

SEPTEMBER 26, 2017

JOB NO. **F3988** 1 OF 13

SCALE

AS NOTED

UTILITIES ARE PLOTTED AS A COMPILATION OF RECORD DOCUMENTS (MARKINGS AND OTHER OBSERVED EVIDENCE TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES AND SHOULD BE CONSIDERED APPROXIMATE. LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY COMPLETELY AND RELIABLY DEPICTED. ADDITIONAL UTILITIES, NOT EVIDENCED BY RECORD DOCUMENTS OR OBSERVED PHYSICAL EVIDENCE, MAY EXIST. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING AND CALL DIGSAFF AT 1(888)DIG—SAFE\$7233\$. DRILLING AND CALL DIGSAFE AT 1(888)DIG-SAFE{7233}.

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

<u>REQUIRED</u>

35%

MIN. LOT AREA 10,000 SF MIN. LOT FRONTAGE 100 FT MIN. LOT DEPTH 100 FT MIN. LOT WIDTH 90 DIA MAX HEIGHT 40 FT MAX. STORIES

MIN. YARD SETBACKS

IMPERV. COVERAGE

FRONT 20 FT SIDE 15 FT REAR 20 FT

# NOTES

1. THIS SITE IS NOT IN A FLOOD HAZARD ZONE.

2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD. ANY DISCREPANCY WITH THE PLANS SHOULD BE REPORTED TO THE DESIGN ENGINEER UPON DISCOVERY.

- 3. CONTRACTOR & ARCHITECT SHALL VERIFY SITE UTILITIES PRIOR TO DESIGN & CONSTRUCTION.
- 4. REFER TO FRANKLIN ASSESSORS MAP 278 LOTS 31,32 AND 35.
- 5. THERE ARE NO TREES DESIGNATED AS "PUBLIC SHADED TREES" ON THIS SITE TO BE REMOVED FOR THE SITE PLAN.
- 6. THIS SITE IS NOT IN A WATER RESOURCE DISTRICT.

# TESTING INFORMATION

TESTING DATE: MARCH 8, 2017 SOIL EVALUATOR: BRUCE WILSON, JR.

266.2	TP 1		278.9	TP 2	· .
264.7	SANDY LOAM 10YR3/3	0"-18" A	277 <u>.9</u>	SANDY LOAM 10YR3/3	0"-12" A
262,54	SANDY LOAM 10YR5/6	18"-44" B	277 <u>.4</u>	SANDY LOAM 10YR5/6	12"-18" Bw
	SAND 2% GRAVEL 10% COBBLES LG. STONES 2.5Y5/4	44"-132"	260.9	SAND MED. TO COURSE 10% GRAVEL 2% COBBLES 2.5Y5/4	18"-216" C-1
255 <u>.2</u>	LOAMY SAND NO GRAVEL	132"–180" C–2	200.0	LOAMY SAND 2% GRAVEL	216"-240" <u>C-2</u>
251.2			258.9	NO GW NO MOTTL	ES
274.3	TP 3		263.0	TP 4	
	TP 3 SANDY LOAM 10YR3/3	0"-8"	263.0 262.0	TP 4 SANDY LOAM 10YR3/3	0"-12" A
273 <u>.64</u>	SANDY	0"-8" A 8"-24"	·	SANDY LOAM	
	SANDY LOAM 10YR3/3 SANDY	8"-24"	262 <u>.0</u>	SANDY LOAM 10YR3/3 SANDY LOAM	A 12"-44" B
273 <u>.64</u>	SANDY LOAM 10YR3/3 SANDY LOAM SAND 10-15% GRAVEL	8"-24" B	262 <u>.0</u> 259 <u>.67</u>	SANDY LOAM 10YR3/3 SANDY LOAM 10YR5/6 SAND 10% GRAVEL 2% COBBLES 2.5Y5/4 SAND FINE SAND—MEI	A 12"-44" B 44"-96" C-1 96"-142"
273 <u>.64</u>	SANDY LOAM 10YR3/3 SANDY LOAM SAND 10-15% GRAVEL 2% COBBLES MED. TO	8"-24" B	262 <u>.0</u> 259 <u>.67</u> 255 <u>.0</u>	SANDY LOAM 10YR3/3 SANDY LOAM 10YR5/6 SAND 10% GRAVEL 2% COBBLES 2.5Y5/4 SAND FINE	A 12"-44" B 44"-96" C-1 96"-142" C-2

273.6	TP 5	
272.27	SANDY LOAM 10YR3/3	0"-16" A
270.94	SANDY LOAM 10YR5/6	16"-32" B
266.6	SAND MED. GRAIN 2.5Y5/4	32"-84" c
265.1	SAND 5-10% GRAVEL	84"-102' C-2
	SAND 2% GRAVEL	102"-192

257.6

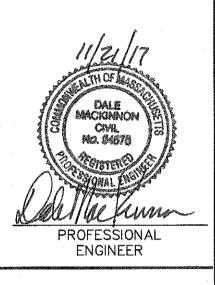
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0 o [4

APPROVED DATE: FRANKLIN PLANNING BOARD BEING A MAJORITY



PROFESSIONAL LAND SURVEYOR

> APPLICANT JOEL D'ERRICO 72 DEERVIEW WAY FRANKLIN, MA 02038

REVISIONS

REVISED

DATE

WIDEN ROADWAY TO 24', ADDED SIDEWALK AND PAVERS FOR FIRE ACCESS



Guerriere

Ph. (508) 528–3221 55 WEST CENTRAL STREET Fx. (508) 528–7921 FRANKLIN, MA 02038 www.guerriereandhalnon.com

SITE PLAN

HIGHLAND VILLAGE 278-300 WEST CENTRAL STREET

> FRANKLIN MASSACHUSETTS

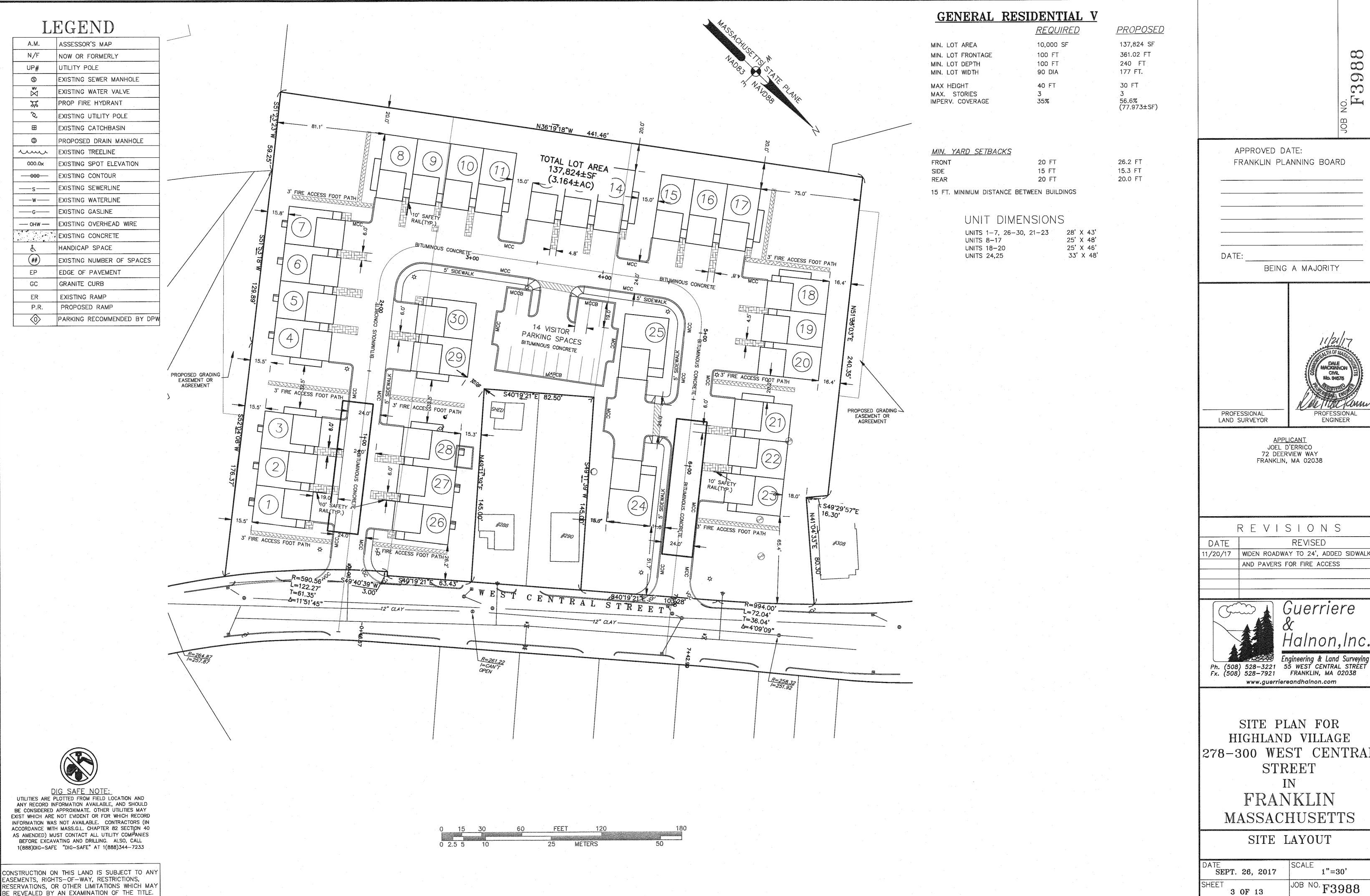
EXISTING CONDITIONS

SEPTEMBER 26, 2017

2 OF 13

1"=30'

JOB NO. F3988



FRANKLIN PLANNING BOARD BEING A MAJORITY



72 DEERVIEW WAY FRANKLIN, MA 02038

22 C 19 C 19 C 19 C 19 C 19 C 19 C 19 C 19	REVISIONS
DATE	REVISED
11/20/17	WIDEN ROADWAY TO 24', ADDED SIDWALK
	AND PAVERS FOR FIRE ACCESS

www.guerriereandhalnon.com

SITE PLAN FOR HIGHLAND VILLAGE 278-300 WEST CENTRAL STREET FRANKLIN

SITE LAYOUT

1"=30' JOB NO. **F3988** 3 OF 13

	SCHE	DULE OF SEWER	SERVICES
UNIT #	8" INV IN MAIN	LENGTH OF PIPE TYPICAL SERVICE SLOPE= 2% MIN.	HSE. INVERT
# 1	261.40	11.4'	261.50
# 2	261.27	11.4'	261.50
# 3	261.14	11.4'	261.50
# 4	259.12	32.7'	261.50
# 5	258.88	32.7'	259.75
# 6	259.64	32.7'	259.50
# 7	258.41	32.7'	259.25
# 8	258.17	45.6'	259.50
# 9	258.02	45.6'	259.25
# 10	257.76	45.6'	259.00
# . 11	257.55	45.6'	258.75
# 12	257.13	45.6'	258.25
# 13	256.87	45.6'	258.00
# 14	256.61	45.6	257.75
# 15	256.15	45.6	257.50
# 16	255.88	45.6'	257.25
# 17	255.69	45.6'	257.00
# 18	255.44	26.8'	256.75
# 19	255.25	26.8	256.50
# 20	255.02	26.8'	256.25
# 21	254.55	12.3'	255.25
# 22	254.21	12.3'	255.00
# 23	253.97	12.3'	254.75
# 24	260.35	53.5'	262.00
# 25	260.39	12.1'	261.00
# 26	260.91	21.5'	261.50
# 27	260.24	21.5'	261.50
# 28	259.97	21.5'	261,50
# 29	259.12	35.1'	259.50
# 30	258.88	32.7'	259.75

- ALL SEWER PIPES LESS THAN 5' COVER SHALL BE INSULATED

# LEGEND

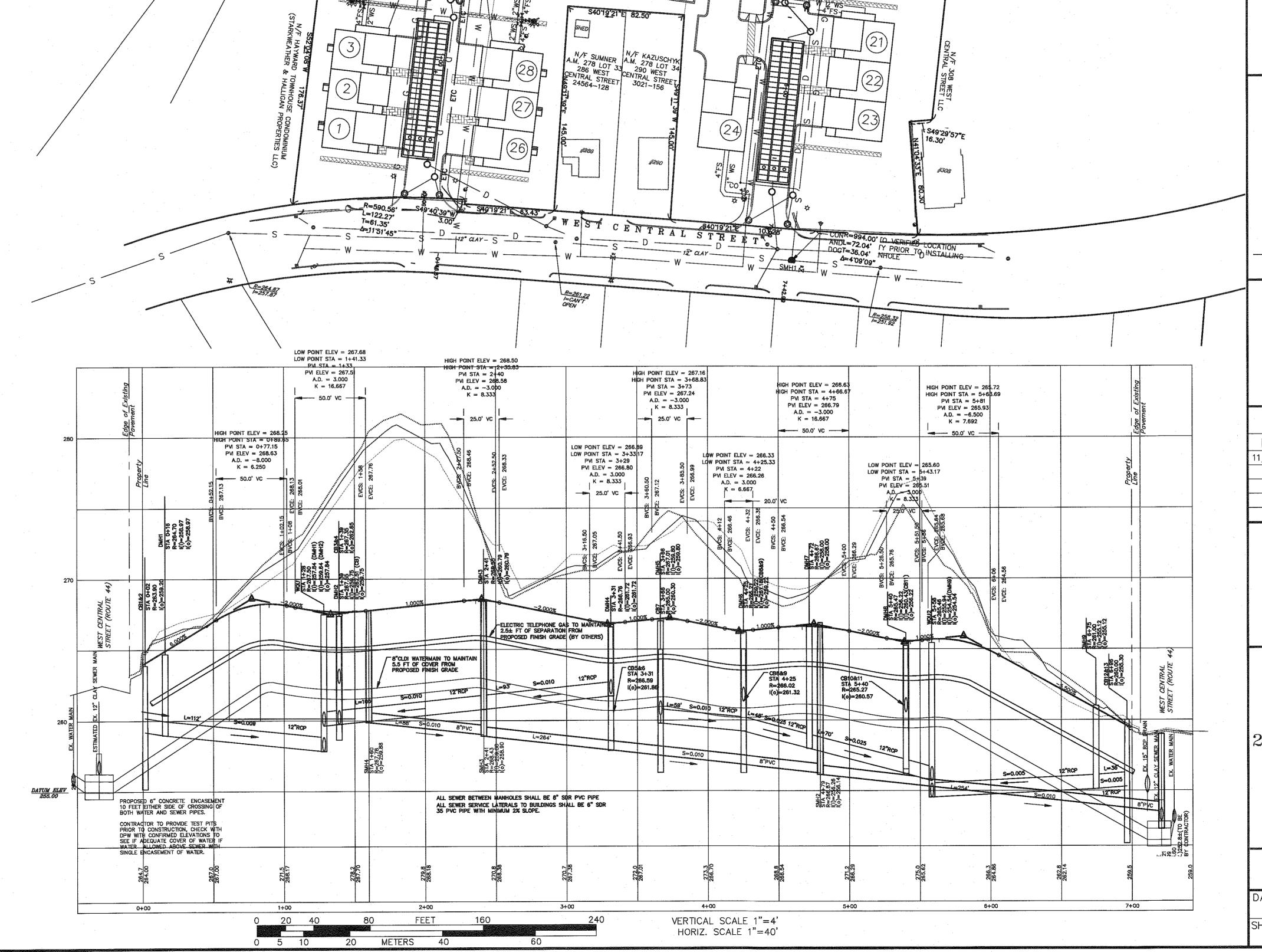
_		
	A.M.	ASSESSOR'S MAP
	N/F	NOW OR FORMERLY
	UP#	UTILITY POLE
	©	EXISTING SEWER MANHOLE
	X	EXISTING WATER VALVE
	数	PROP FIRE HYDRANT
. [	رض	EXISTING UTILITY POLE
	Ш	EXISTING CATCHBASIN
	0	PROPOSED DRAIN MANHOLE
	11111	EXISTING TREELINE
	×0.000	EXISTING SPOT ELEVATION
		EXISTING CONTOUR
	s	EXISTING SEWERLINE
·	W	EXISTING WATERLINE
	——	EXISTING GASLINE
	— онw —	EXISTING OVERHEAD WIRE
	A 180	EXISTING CONCRETE
	ě,	HANDICAP SPACE
	(##)	EXISTING NUMBER OF SPACES
	EP	EDGE OF PAVEMENT
	GC	GRANITE CURB
	ER	EXISTING RAMP
	P.R.	PROPOSED RAMP
	<b></b>	PARKING RECOMMENDED BY DPW

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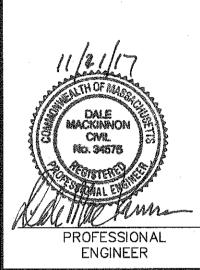
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APPROVED DATE:
FRANKLIN PLANNING BOARD

DATE:
BEING A MAJORITY



PROFESSIONAL LAND SURVEYOR

<u>APPLICANT</u> JOEL D'ERRICO 72 DEERVIEW WAY FRANKLIN, MA 02038

REVISIONS

DATE REVISED

11/20/17 WIDEN ROADWAY TO 24', ADDED SIDWALK

AND PAVERS FOR FIRE ACCESS



www.guerriereandhalnon.com

SITE PLAN FOR
HIGHLAND VILLAGE
278-300 WEST CENTRAL
STREET
IN
FRANKLIN

PROFILE

MASSACHUSETTS

DATE SEPT.26, 2017 SCALE 1"=40'
SHEET 4 OF 13 JOB NO. F3988

# LEGEND ASSESSOR'S MAP UTILITY POLE

NOW OR FORMERLY UP# EXISTING SEWER MANHOLE EXISTING WATER VALVE PROP FIRE HYDRANT EXISTING UTILITY POLE EXISTING CATCHBASIN PROPOSED DRAIN MANHOLE VWW. EXISTING TREELINE 000.0x EXISTING SPOT ELEVATION EXISTING CONTOUR ---000 EXISTING SEWERLINE ——s—— EXISTING WATERLINE EXISTING GASLINE ——G—— EXISTING OVERHEAD WIRE EXISTING CONCRETE HANDICAP SPACE EXISTING NUMBER OF SPACES EDGE OF PAVEMENT GRANITE CURB ER EXISTING RAMP

# GENERAL EROSION CONTROL AND DRAINAGE CONSTRUCTION PHASING

- 1. INSTALL EROSION CONTROL DEVICES ALONG PERIMETER OF SITE.
- INSTALL CONSTRUCTION ENTRANCE.
- 3. SITE TO BE CLEARED AND GRUBBED.

PARKING RECOMMENDED BY DP

4. INSTALL RETAINING WALLS.

PROPOSED RAMP

- 5. INSTALLED SLOPE MATTING TO STABILIZE SLOPES (IF APPLICABLE)
- INSTALL CONSTRUCTION ENTRANCE.
- 7. INSTALL TEMPORARY SEDIMENT BASIN.
- 8. INSTALL TEMPORARY DIVERSION SWALES AND DIRECT THEM TO THE SEDIMENT BASIN. INSTALL CHECK DAMS EVERY 100 FT.
- 9. INSTALL DRAINAGE MANHOLES AND CATCHBASINS AND ENSURE TEMPORARY COVER IS IN PLACE.
- 10. INSTALL SUBSURFACE INFILTRATION SYSTEMS AND WATER QUALITY UNIT.
- 11. INSTALL ALL DRAINAGE RISERS, GRATES AND COVERS
- 12. REMOVE CONSTRUCTION ENTRANCES.
- 13. INSTALL ROAD UP TO BINDER FINISH GRADE.
- 14. REMOVED TEMPORARY DIVERSION SWALES AND SEDIMENTATION BASINS AFTER SITE HAS BEEN STABILIZED AND PREPARED FROM BUILDING FOUNDATION INSTALLATION.
- 15. REMOVE PERIMETER EROSION CONTROL DEVICES ONCE SITE CONSTRUCTION IS COMPLETE.

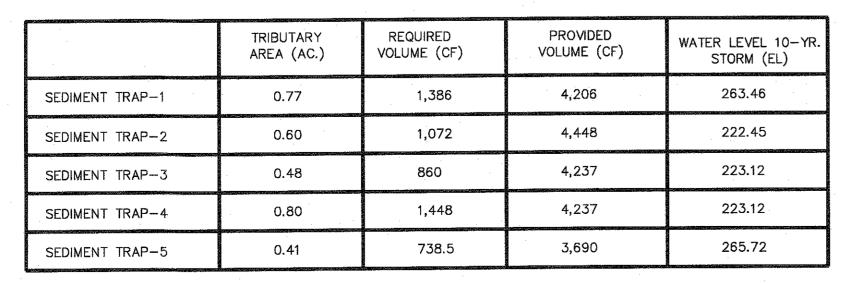
# NOTES:

- 1. SPECIAL CONSIDERATION FOR INLET CONTROLS FOR EROSION COLLECTION BEFORE ENTERING DRAINAGE SYSTEM.
- 2. INSTALL SILT SACKS.
- 3. BARRIER AROUND CATCH BASIN, MULCH SOCK OR EQUAL.
- 4. INSTALL FILTER FABRIC ON ALL DRAIN MANHOLE OUTLETS DISCHARGING TO INFILTRATION
- 5. INSPECTIONS BEFORE AND AFTER STORM EVENTS ARE REQUIRED TO INSURE ADEQUACY OF EROSION CONTROL MEASURES.
- 6. ALL EXISTING STRUCTURES TO BE RAZED.
- 7. STOCK PILE AREA TO BE CONTAINED USING EROSION CONTROL DEVICES
- 8. DIRT BAG SHALL BE USED TO PERIODICALLY CLEAN THE TEMPORARY SEDIMENTATION BASINS DURING CONSTRUCTION.

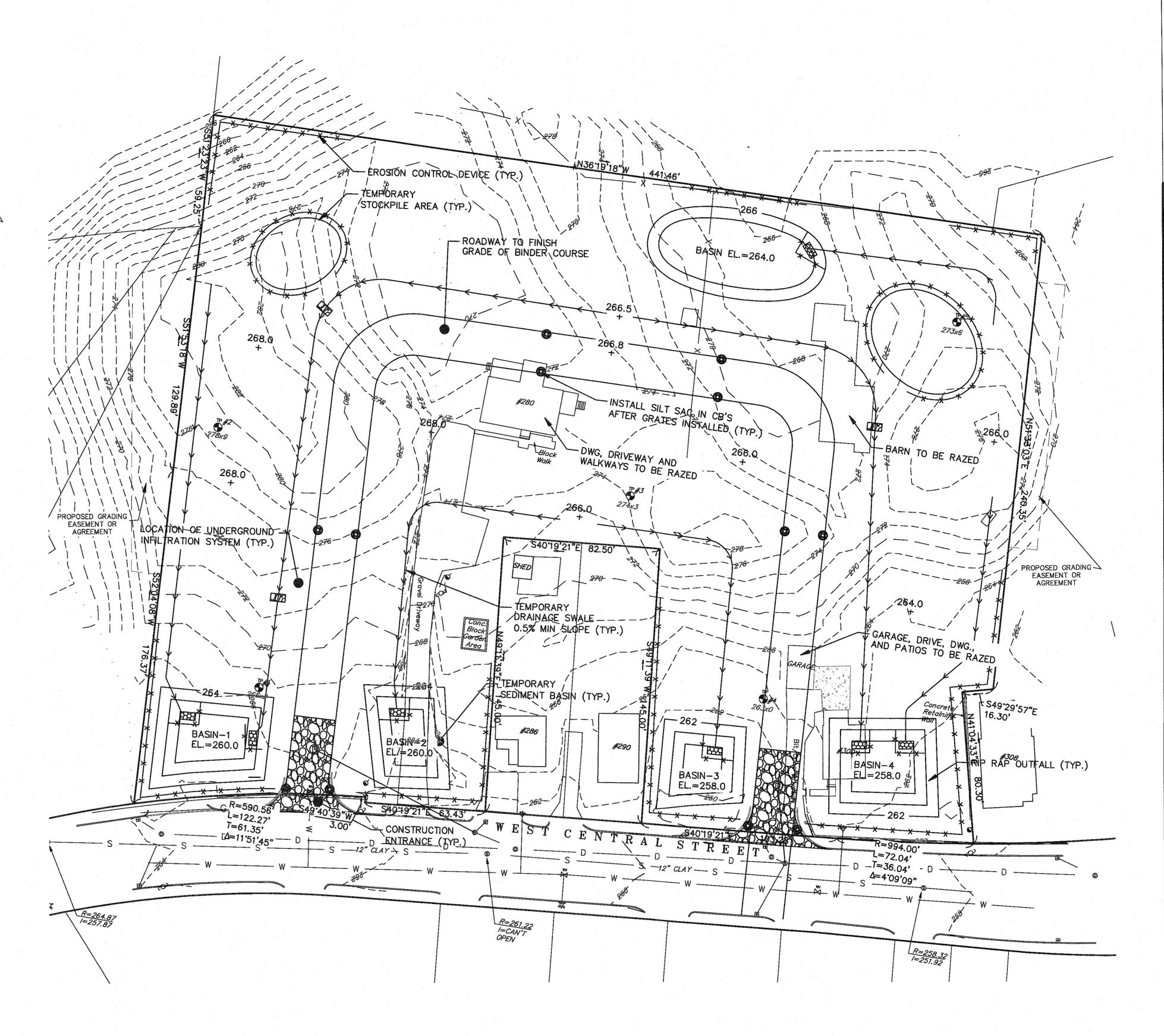


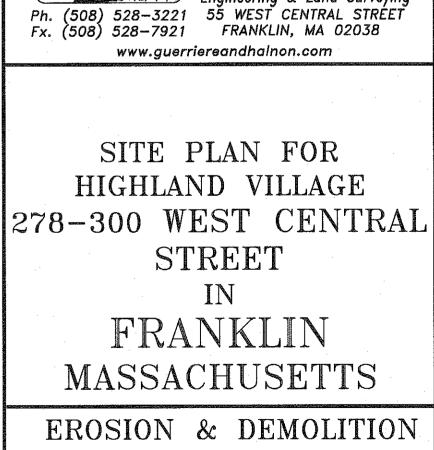
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								STRIC			
								TIONS			
ΒE	REV	EALE	D B	ΥA	N EX	AMIN	ATIC	N OF	THE	TI	TLE.



NOTE: CALCULATIONS FOR MINIMUM SEDIMENT BASIN/TRAP VOLUME BASED ON MASSACHUSETTS FROSION CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS REPRINTED MAY 2003





APPROVED DATE:

PROFESSIONAL LAND SURVEYOR

DATE

1/20/17

FRANKLIN PLANNING BOARD

BEING A MAJORITY

<u>APPLICANT</u>

JOEL D'ERRICO

72 DEERVIEW WAY

FRANKLIN, MA 02038

REVISIONS

AND PAVERS FOR FIRE ACCESS

REVISED

Halnon, Inc.

WIDEN ROADWAY TO 24', ADDED SIDWALK

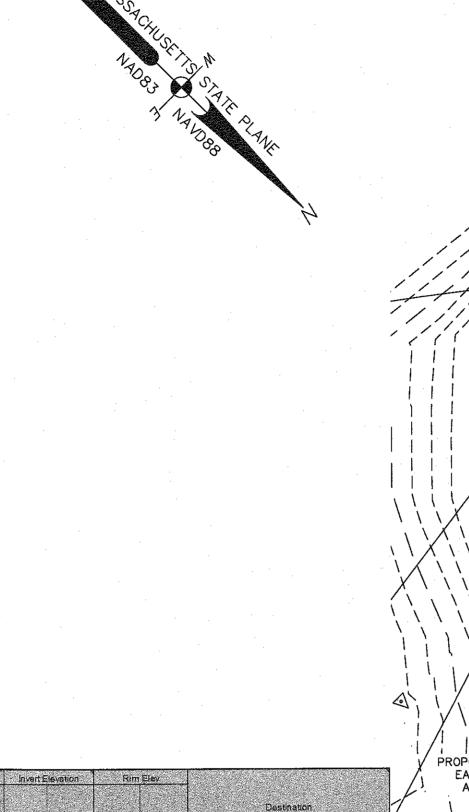
MACKINATION CIVIL No. 34575

PROFESSIONAL ENGINEER

PLAN SCALE 1"=30 SEPT. 26, 2017 JOB NO. **F3988** 5 OF 13

# LEGEND

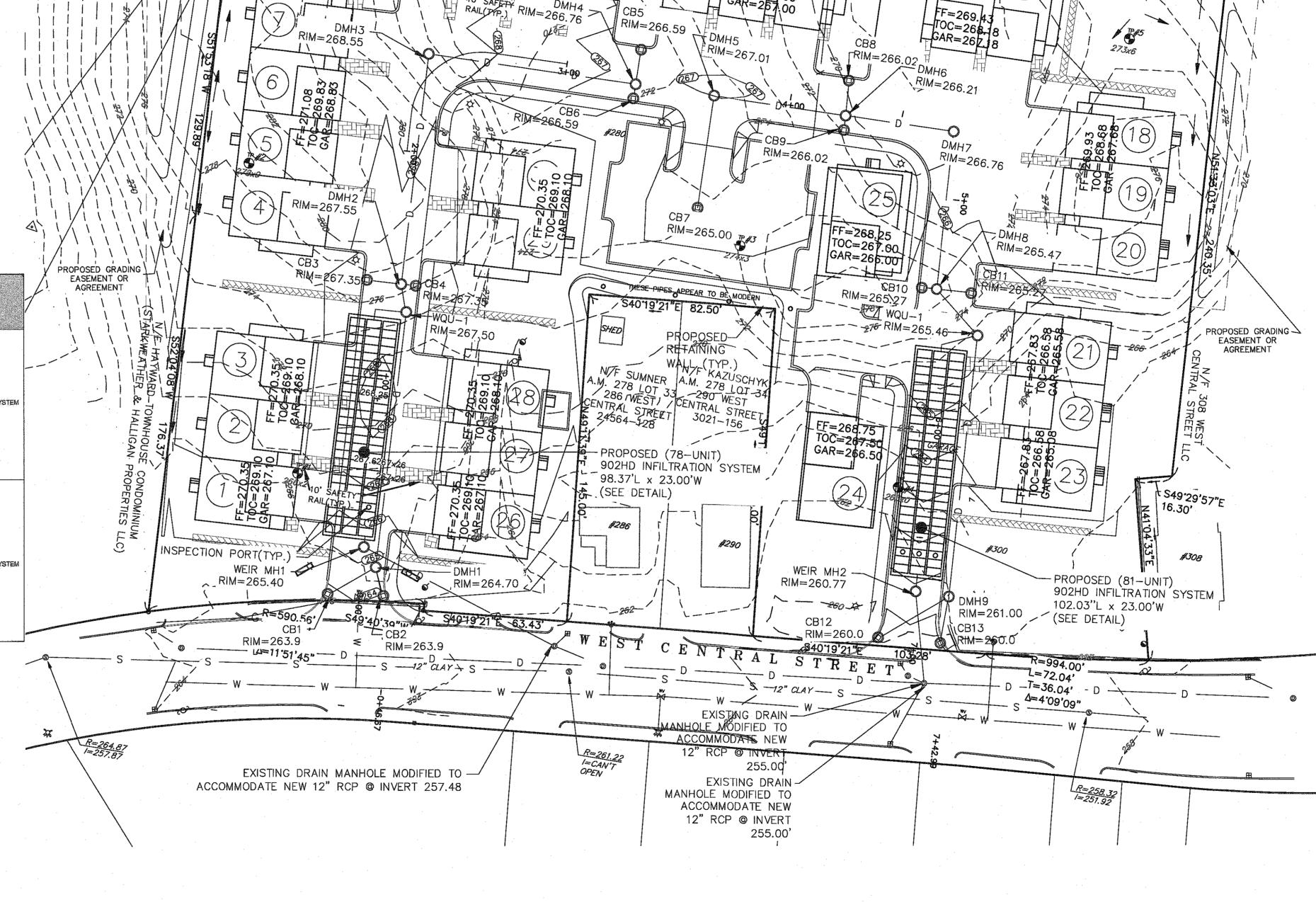
A.M.	ASSESSOR'S MAP
N/F	NOW OR FORMERLY
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$\bigcirc$	PARKING RECOMMENDED BY DP



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CASE	1	Destination					4	. E	<b>4</b> 3	重整		5,4	right.	¥	ੁ <u>ਬ</u> ੁੱ	ual P er Re	osity	to of	Sum of			Diamagerated
Structure   Stru	/		Elev	Elev.	Elev.	Elev.	Ō	星盘	3.2	3.3	350	820	2 S S	- 5	88	# (C)	in the	F 0 5		Lower	Upper	
PR-IA-CB-2		THE RESERVE OF THE PARTY OF THE	Low er End	Upper End.	Lower End	Upper End	(ft)	(min)	(11)	(fps)	(tos)	[615]		(11/11)	(40)	(cfs)	(m/hr) .	(min)	(5f)	AU AU HOUSE COMPANY	Contract of the Contract of the	
Mil-1   Vicu   0.09   6.09   5.80   0.54   12   0.010   0.013   3.56   4.54   0.69   1125   0.41   1.13   259.97   257.84   264.70   267.50   267.55   267			264.70	263.90	258.97	259.20	0.24	0.09	23.5	0.37	4.54	3.56	0.013	0.010	12	0.29	5.80	6.00	0.05	DMH-1	CB-1	PR-1A-CB-1
PR-IA-CB-3			264.70	263.90	258.97	259.20	0.23	0.03	12.5	0.32	6.15	4.83	0.013	0.018	12	0.25	5,80	6.00	0.04	DMH-1	CB-2	PR-1A-CB-2
PR-IA-CB-4			267.50	264.70	257.84	258.97	1.13	0.41	112.5	0.69	4.54	3.56	0.013	0.010	12	0.54	5.80	6.09	0.09	WQU-1	DMH-1	
PR-IA-CB-5			267.55	267.35	262.51	262.65	0.14	0.05	14.5	0.73	4.54	3.56	0.013	0.010	12	0.57	5.80	6.00	0.10	DMH-2	СВ-3	PR-1A-CB-3
PR-IA-CB-6   CB-6   DMH-4   0.02   6.00   6.80   0.14   12   0.031   0.013   6.27   7.99   0.17   5.5   0.01   0.17   261.89   261.72   266.59   266.76   266.55	1		267.55	267.35	262.51	262.65	0.14	0.01	5.5	0.67	7.23	5.68	0,013	0.025	12	0.52	5.80	6.00	0.09	DMH-2	CB-4	PR-1A-CB-4
PR-IA-CB-6 CB-6 DMH-4 0.02 6.00 5.80 0.14 12 0.031 0.013 6.27 7.99 0.17 5.5 0.01 0.17 291.89 281.72 286.59 286.76  DMH-4 DMH-3 0.11 6.05 5.80 0.64 12 0.010 0.013 3.86 4.54 0.82 92.5 0.34 0.93 281.72 250.79 286.76 286.55  DMH-2 VQU-1 0.30 8.77 5.89 1.70 12 0.010 0.013 3.86 4.54 0.82 104.5 0.38 1.05 280.79 259.75 286.55 287.50  DMH-2 VQU-1 0.30 8.77 5.89 1.70 12 0.010 0.013 3.86 4.54 0.82 104.5 0.38 1.05 280.79 259.75 286.55 287.50  WQU-1 CHANBER-1 0.39 7.19 6.59 2.19 12 0.010 0.010 4.63 5.90 2.79 16.5 0.05 0.17 257.84 257.88 287.50  *** WEIR-MH1 EX-DMH1			266.76	266.59	261.72	261.89	0.17	0.05	14.5	0.64	4.97	3.90	0.013	0.012	12	0.51	5.80	6.00	0.09	DMH-4	CB-5	PR-1A-CB-5
DMH-4   DMH-3   DMH-2   DMH-3   0.11   6.06   5.80   0.64   12   0.010   0.013   3.66   4.54   0.82   92.5   0.34   0.93   281.72   260.79   286.76   268.55   267.55   267.55   268.65   267.55   267.55   268.65   267.55   267.55   268.65   267.55   267.55   268.65   267.55   267.55   268.65   267.55   267.	STEM	920HD RECHARGER INFILTRATION SYS	266.76	266,59	261.72	261.89	0.17	0.01	5.5	0.17	7.99	6.27	0.013	0.031	12	0:14	5.80	6.00	0.02	DMH-4	св-6	PR-1A-CB-6
DMH-3			268,55	266.76	260.79	261.72	0.93	0.34	92.5	0.82	4.54	3.56	0.013	0.010	12	0.64	5.80	6.05	0.11	-		
DMH-2   WQU-1   0.30   6.77   5.69   1.70   12   0.010   0.013   3.56   4.54   2.17   11.0   0.04   0.11   259.75   259.64   267.55   267.50			267.55	268.55	259.75	260.79	1.05	0.38	104.5	0.82	4.54	3.56	0.013	0.010	12	0.64	5.80	6.39	0.11		1	
WQU-1		·	267.50	267.55	259 64	259.75	0.11	0.04	11.0	2.17	4.54	3.56	0.013	· · · · · · · · · · · · · · · · · · ·						1		
** WER-MH1 EX-DMH1				267.50	257.68	257.84	0.17	0.05	16.5	2.79	5.90	4.63										
PR-IB-CB-7 CB-7 DMH-5 0.13 6.00 5.80 0.73 12 0.010 0.013 3.56 4.54 0.93 50.0 0.14 261.32 261.18 266.02 266.21 PR-IB-CB-9 CB-9 DMH-6 0.02 6.00 5.80 0.73 12 0.010 0.013 3.56 4.54 0.93 5.63 7.17 0.13 5.5 0.01 0.14 261.32 261.18 266.02 266.21 DMH-5 DMH-6 0.13 6.00 5.80 0.73 12 0.010 0.013 3.56 4.54 0.93 58.5 0.21 0.58 269.80 259.80 265.00 266.21 DMH-6 DMH-7 0.23 6.21 5.80 1.33 12 0.025 0.013 5.68 7.23 1.69 48.0 0.11 1.22 259.22 258.00 266.21 266.76 265.47	.	·	261.08	265.40	257.91	258.00	0.09	0:09	17.5	0.13	3.21	2.52	0.013			527 - 20 S - C S -					<del>                                     </del>	**
PR-1B-CB-8												10.00				446.5					1	
PR-1B-CB-8			267.01	265.00	259.80	260,30	0.50	0.18	50.0	0.93	4.54	3.56	0.013	0.010	12	0.73	5.80	6.00	0.13	DMH-5	CB-7	PR-1B-CB-7
PR-IB-CB-9 CB-9 DMH-6 0.02 6.00 5.80 0.11 12 0.025 0.013 5.63 7.17 0.13 5.5 0.01 0.14 261.32 261.18 266.02 266.21  DMH-5 DMH-6 0.13 6.00 5.80 0.73 12 0.010 0.013 3.56 4.54 0.93 58.5 0.21 0.58 269.80 259.22 267.01 266.21  DMH-6 DMH-7 0.23 6.21 5.80 1.33 12 0.025 0.013 5.68 7.23 1.69 48.0 0.11 1.22 259.22 258.00 266.21 266.76  DMH-7 DMH-8 0.23 6.21 5.80 1.33 12 0.025 0.013 5.68 7.23 1.69 70.0 0.16 1.78 258.00 256.22 266.76 265.47	1	1 · · ·	266.21	266.02	261.18	261.32	0.14	0.05	14.5			TO 61 60 45 66				Section Market Section						
DMH-5 DMH-6 0.13 6.00 5.80 0.73 12 0.010 0.013 3.56 4.54 0.93 58.5 0.21 0.58 259.80 259.22 267.01 266.21  DMH-6 DMH-7 0.23 6.21 5.80 1.33 12 0.025 0.013 5.68 7.23 1.69 48.0 0.11 1.22 259.22 258.00 266.21 266.76  DMH-7 DMH-8 0.23 6.21 5.80 1.33 12 0.025 0.013 5.68 7.23 1.69 70.0 0.16 1.78 258.00 256.22 266.76 265.47	1		266.21	266.02	261.18	261.32	0.14	0.01	5.5	0.13	7,17	5.63	0.013	0.025	-	10 A			-		<del> </del>	
DMH-6 DMH-7 0.23 6.21 5.80 1.33 12 0.025 0.013 5.68 7.23 1.69 48.0 0.11 1.22 259.22 258.00 266.21 266.76  DMH-7 DMH-8 0.23 6.21 5.80 1.33 12 0.025 0.013 5.68 7.23 1.69 70.0 0.16 1.78 258.00 256.22 266.76 265.47	1		266.21	267.01		259.80	0.58	0.21				9.75.38 MATERIAL				E-25-01-01-58-1					<del> </del>	
DMH-7 DMH-8 0.23 6.21 5.80 1.33 12 0.025 0.013 5.68 7.23 1.69 70.0 0.16 1.78 258.00 256.22 266.76 265.47	•	1									1	2019 1002000			9	2548 (B1X 1987)					<del></del>	
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PR-IB-CB-10 CB-10 DMH-8 0.06 6.00 5.80 0.32 12 0.025 0.013 5.63 7.17 0.41 6.5 0.01 0.14 260.57 260.43 265.27 265.47 AREA2		AREA-2					_					Water Street				Market Commence	7-7-7	1			<b>-</b>	DD 1B-CB-10
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Danie 1100 2 0.14 0.10 0.00 0.00 0.00 0.00 0.00 0.00	[	1	205.40									200				200200000000000000000000000000000000000					·	
WQU-2 CHAMBER-2 0.52 6.98 5.69 2.94 12 0.005 0.010 3.28 4.17 3.75 16.5 0.07 0.08 254.54 254.46 265.46	-	1										3685F061560		*****		1.025.0945.05	5.69	6.98			<del>                                     </del>	
** WEIR-MH2 EX-DMH2 0.10 12 0.010 0.013 3.56 4.54 0.13 17.5 0.06 0.18 254.46 254.28 266.46	<u></u>	<u> </u>		206.46	254.28	254,48	U.18	0.06	17.5	0.13	4,54	3.56	0.013	0.010	12	0.10		1				

Pipe lengths were taken from center of structures \*\* 100 yr discharge flow rate from HydroCAD

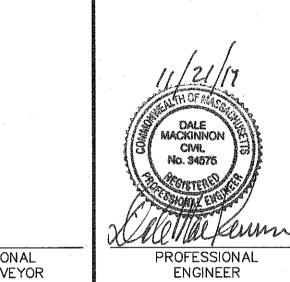
DESIGN COMPUTATIONS FOR STORM DRAINS



137,824±SF

APPROVED DATE: FRANKLIN PLANNING BOARD

BEING A MAJORITY



PROFESSIONAL LAND SURVEYOR

APPLICANT
JOEL D'ERRICO
72 DEERVIEW WAY FRANKLIN, MA 02038

REVISIONS

REVISED DATE 11/20/17 WIDEN ROADWAY TO 24', ADDED SIDWALK AND PAVERS FOR FIRE ACCESS



Ph. (508) 528-3221 55 WEST CENTRAL STREET Fx. (508) 528-7921 FRANKLIN, MA 02038

www.guerriereandhalnon.com

Guerriere

SITE PLAN FOR HIGHLAND VILLAGE 278-300 WEST CENTRAL STREET FRANKLIN MASSACHUSETTS

GRADING & DRAINAGE

DATE	SCALE
SEPT. 26, 2017	1"=30'
SHEET 6 OF 13	JOB NO. <b>F3988</b>



UTILITIES ARE PLOTTED FROM FIELD LOCATION AND ANY RECORD INFORMATION AVAILABLE, AND SHOULD BE CONSIDERED APPROXIMATE. OTHER UTILITIES MAY EXIST WHICH ARE NOT EVIDENT OR FOR WHICH RECORD INFORMATION WAS NOT AVAILABLE. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING. ALSO, CALL 1(888)DIG-SAFE "DIG-SAFE" AT 1(888)344-7233

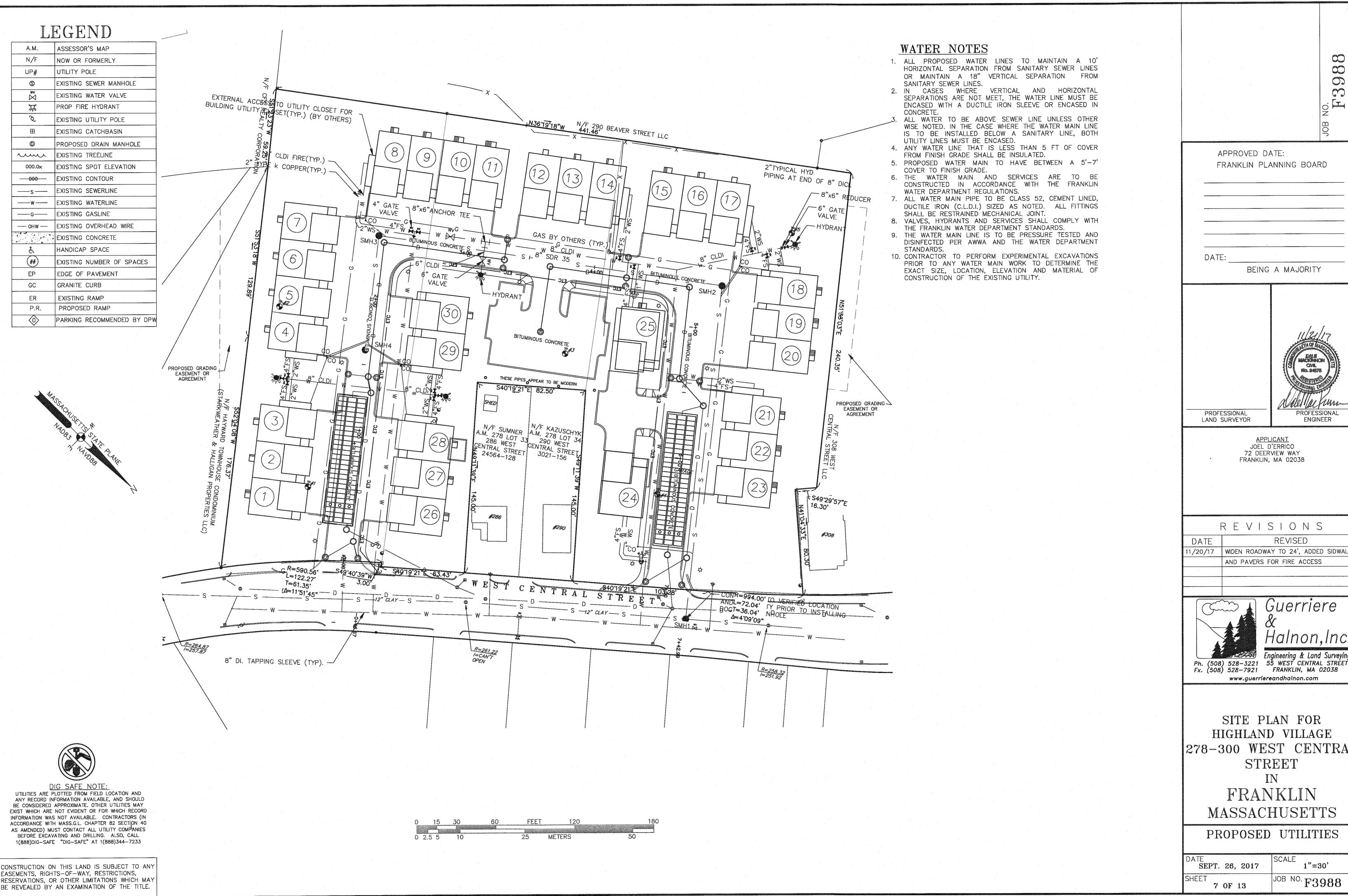
CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

# STORM DRAINAGE NOTES

- 1. INSTALL CONNECTIONS TO CATCH BASINS, TSS REMOVAL UNIT AND DRAIN MANHOLES.
- 2. CONTRACTOR & ARCHITECT ARE TO VERIFY SITE UTILITIES PRIOR TO DESIGN & CONSTRUCTION.
- 4. ALL DRAIN PIPES ARE 12" RCP CLIII UNLESS OTHERWSE NOTED

# SITE DRAINAGE INSTALLATIONS NOTES

- 1. EACH SUBSURFACE CHAMBER WILL BE INSTALLED SEPARATELY TO DESIGN ELEVATION.
- 2. INSTALL CONNECTIONS TO CATCH BASINS, TSS REMOVAL UNIT AND DRAIN MANHOLES.
- 3. EXCAVATE AND INSTALL SUBSURFACE UNIT, BACKFILL W/ STONE MAINTAINING 18"-24" COVER AND AS-BUILT EACH SECTION.



APPROVED DATE: FRANKLIN PLANNING BOARD BEING A MAJORITY



<u>APPLICANT</u> JOEL D'ERRICO 72 DEERVIEW WAY FRANKLIN, MA 02038

REVISIONS REVISED WIDEN ROADWAY TO 24', ADDED SIDWALK

AND PAVERS FOR FIRE ACCESS

www.guerriereandhalnon.com

HIGHLAND VILLAGE 278-300 WEST CENTRAL STREET FRANKLIN

PROPOSED UTILITIES

JOB NO. **F3988** 

1"=30'

# LEGEND

A.M.	ASSESSOR'S MAP					
N/F	NOW OR FORMERLY					
UP#	UTILITY POLE					
<b>S</b>	EXISTING SEWER MANHOLE					
w W	EXISTING WATER VALVE					
¥	PROP FIRE HYDRANT					
Ø	EXISTING UTILITY POLE					
H ·	EXISTING CATCHBASIN					
0	PROPOSED DRAIN MANHOLE					
·····	EXISTING TREELINE					
000.0×	EXISTING SPOT ELEVATION					
	EXISTING CONTOUR					
s	EXISTING SEWERLINE					
W	EXISTING WATERLINE					
G	EXISTING GASLINE					
— онw —	EXISTING OVERHEAD WIRE					
	EXISTING CONCRETE					
ب	HANDICAP SPACE					
##	EXISTING NUMBER OF SPACES					
EP	EDGE OF PAVEMENT					
GC	GRANITE CURB					
ER	EXISTING RAMP					
P.R.	PROPOSED RAMP					
<b>(</b>	PARKING RECOMMENDED BY DI					
-						



	PLANTING	; LEGEND_	
SYMBOL	NAME	SIZE	QUANTITY
and the same of th	LITTLE LEAF LINDEN TILIA CORDATA	4' MIN. 2.5" CAL.	15
6.7.	SUPERIOR HYBRID POPLAR POPULUS DELTOIDS X POPULUS NIGRA	4' MIN. 2.5" CAL.	13
100 M	ROSE OF SHARON HIBISCUS SYIACUS	5 GAL.	14
<b>②</b>	RHODODENDRON HENRY'S RED (DARK RED)	2' MIN.	6
	HERMOCADIS DAYLILIES	2 GAL.	8
	PYRAMIDLIS ARBORVITAE THUJA ACCIDENTALIS	5' MIN.	14

SHADE TREES TO BE TO BE PLACED AT AN AVERAGE SPACING OF 50 FEET AND OF A HARDWOOD SPECIES APPROVED BY THE PLANNING BOARD, 2 1/2" IN DIAMETER, CALIPER 1' ABOVE GRADE. TREES SHALL BE VARIED AMONG THE FOLLOWING SPECIES:

- SUGAR MAPLE (ACER SACCHARUM)
- PIN OAK (QUERCUS PALUSTRIS)RED MAPLE (ACER RUBRUM)



DIG SAFE NOTE:
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APPROVED DATE: FRANKLIN PLANNING BOARD BEING A MAJORITY PROFESSIONAL LAND SURVEYOR PROFESSIONAL ENGINEER <u>APPLICANT</u> JOEL D'ERRICO 72 DEERVIEW WAY FRANKLIN, MA 02038

REVISIONS REVISED DATE WIDEN ROADWAY TO 24', ADDED SIDWALK AND PAVERS FOR FIRE ACCESS



Guerriere Engineering & Land Surveying

Ph. (508) 528-3221 55 WEST CENTRAL STREET Fx. (508) 528-7921 FRANKLIN, MA 02038

www.guerriereandhalnon.com

SITE PLAN FOR HIGHLAND VILLAGE 278-300 WEST CENTRAL STREET FRANKLIN MASSACHUSETTS

LANDSCAPING

SEPT. 26, 2017 8 OF 13

1"=30' JOB NO. **F3988** 

# LEGEND

	A.M.	ASSESSOR'S MAP
	N/F	NOW OR FORMERLY
	UP#	UTILITY POLE
	\$	EXISTING SEWER MANHOLE
	₩V ⊠	EXISTING WATER VALVE
	**	PROP FIRE HYDRANT
	Q	EXISTING UTILITY POLE
	Ш	EXISTING CATCHBASIN
	0	PROPOSED DRAIN MANHOLE
	www	EXISTING TREELINE
	000.0×	EXISTING SPOT ELEVATION
	<del></del>	EXISTING CONTOUR
	s	EXISTING SEWERLINE
	w	EXISTING WATERLINE
	G	EXISTING GASLINE
٠.	—— онw ——	EXISTING OVERHEAD WIRE
		EXISTING CONCRETE
	ě.	HANDICAP SPACE
	(##)	EXISTING NUMBER OF SPACES
	EP	EDGE OF PAVEMENT
	GC	GRANITE CURB
	ER	EXISTING RAMP
	P.R.	PROPOSED RAMP
	$\Diamond$	PARKING RECOMMENDED BY DPV

SED GRADING
MENT OR
REEMENT ,3' FIRE ACCESS FOOT PAIH . 3' PIRE ACCESS FOOT PATH O'



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THIS PHOTOMETRIC PLAN IS BASED SOLELY UPON PROPRIETARY INFORMATION SUPPLIED BY THE LUMINAIRE MANUFACTURER AND CLIENT RECOMMENDATION.

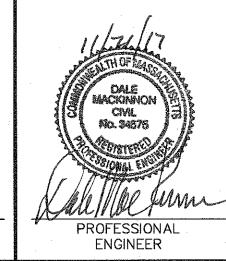
LUMINAIRE LOCATIONS, LIGHTING PATTERNS, AND ILLUMINATION LEVELS WERE PREPARED UTILIZING INFORMATION SUPPLIED BY THE LUMINAIRE MANUFACTURER AND THE SOFTWARE PACKAGE SIMPLY OUTDOOR. IT'S VALUES SHOULD BE CONSIDERED APPROXIMATE IN NATURE AND SHALL BE VERIFIED BY THE LUMIN MANUFACTURER PRIOR TO INSTALLATION.

ACTUAL PERFORMANCE OF LIGHTING PATTERNS AND/OR ILLUMINANCE VALUES MAY VARY DUE TO VARIATIONS IN LIGHT HEIGHT, ELECTRICAL VOLTAGE, LAMP WATTAGE, AND OTHER VARIABLE FIELD CONDITIONS, OR USING A LUMINAIRE OTHER THAN SPECIFICALLY NOTED HEREON.

GUERRIERE & HALNON, INC ASSUMES NO RESPONSIBILITY FOR ANY SAFETY AND/OR SECURITY RISKS DUE TO INADEQUATE LIGHT LEVELS WHICH MAY OCCUR AFTER INSTALLATION.

APPROVED DATE:
FRANKLIN PLANNING BOARD

DATE:
BEING A MAJORITY

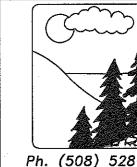


PROFESSIONAL LAND SURVEYOR

> <u>APPLICANT</u> JOEL D'ERRICO 72 DEERVIEW WAY FRANKLIN, MA 02038

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TE			DEVICED							

DATE	REVISED
11/20/17	WIDEN ROADWAY TO 24', ADDED SIDWALK
	AND PAVERS FOR FIRE ACCESS



Guerriere & Halnon,Inc

Ph. (508) 528-3221 55 WEST CENTRAL STREET Fx. (508) 528-7921 FRANKLIN, MA 02038

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SITE PLAN FOR
HIGHLAND VILLAGE
278-300 WEST CENTRAL
STREET
IN
FRANKLIN
MASSACHUSETTS

PHOTOMETRICS

SEPT. 26, 2017
SHEET
9 OF 13

1"=30'
JOB NO. F3988

	A.M.	ASSESSOR'S MAP
	N/F	NOW OR FORMERLY
	UP#	UTILITY POLE
	<b>S</b>	EXISTING SEWER MANHOLE
	wv W	EXISTING WATER VALVE
	*	PROP FIRE HYDRANT
-	Q	EXISTING UTILITY POLE
	H	EXISTING CATCHBASIN
	0	PROPOSED DRAIN MANHOLE
•	·····	EXISTING TREELINE
	000.0x	EXISTING SPOT ELEVATION
	000	EXISTING CONTOUR
	s	EXISTING SEWERLINE
	——w—	EXISTING WATERLINE
	G	EXISTING GASLINE
	онw	EXISTING OVERHEAD WIRE
		EXISTING CONCRETE
	£	HANDICAP SPACE
	(##)	EXISTING NUMBER OF SPACES
	EP	EDGE OF PAVEMENT
	GC	GRANITE CURB
	ER	EXISTING RAMP
	P.R.	PROPOSED RAMP
_	<b>\oint </b>	PARKING RECOMMENDED BY DF

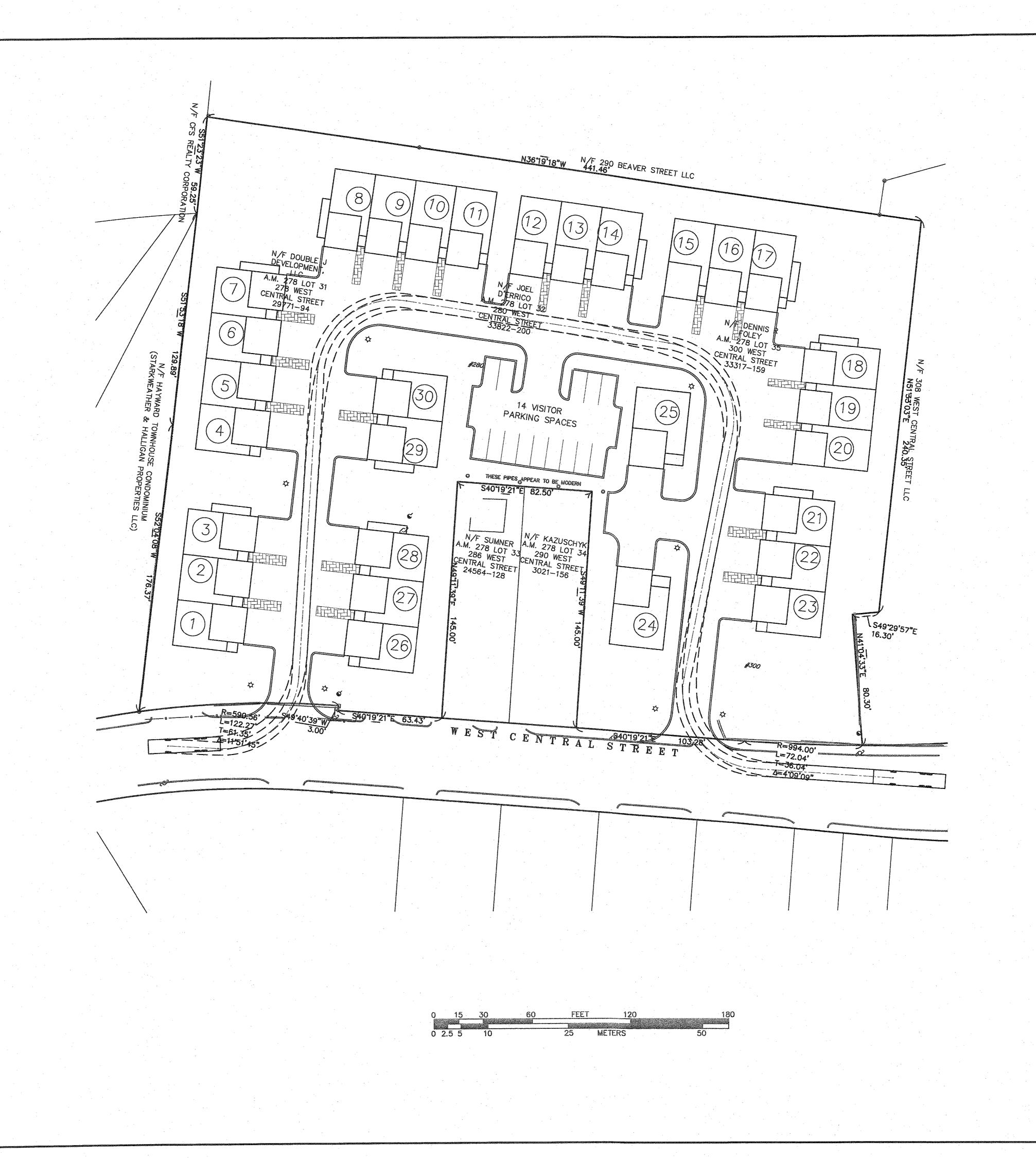
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- SUGAR MAPLE (ACER SACCHARUM)
   PIN OAK (QUERCUS PALUSTRIS)
   RED MAPLE (ACER RUBRUM)

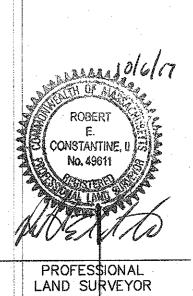


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APPROVED DATE: FRANKLIN PLANNING BOARD BEING A MAJORITY



PROFESSIONAL ENGINEER

APPLICANT JOEL D'ERRICO 72 DEERVIEW WAY FRANKLIN, MA 02038

REVISIONS REVISED DATE

Ph. (508) 528-3221 55 WEST CENTRAL STREET Fx. (508) 528-7921 FRANKLIN, MA 02038 www.guerriereandhalnon.com

Guerriere

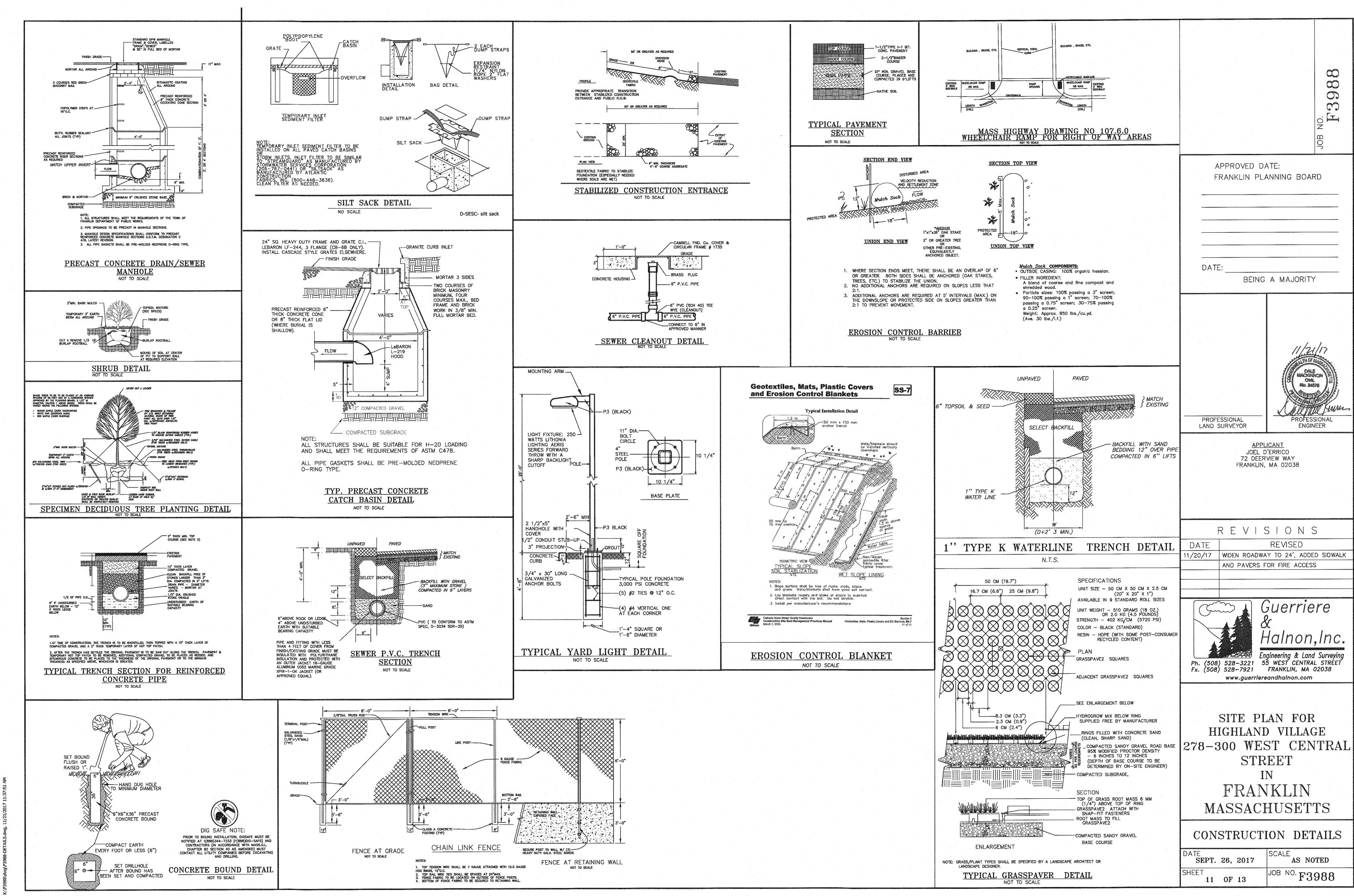
Halnon, Inc.

SITE PLAN FOR HIGHLAND VILLAGE 278-300 WEST CENTRAL

STREET IN FRANKLIN MASSACHUSETTS

> AUTO-TURN FIRE TRUCK

SEPTEMBER 26, 2017 1"=30" JOB NO. F3988 10 OF 13



CULTEC RECHARGER® 902HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

- 1. THE CHAMBERS SHALL BE MANUFACTURED IN THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- 2. THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS."
- 3. THE CHAMBER SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12.
- 4. THE CHAMBER SHALL BE STRUCTURAL FOAM INJECTION MOLDED OF BLUE VIRGIN HIGH MOLECULAR WEIGHT IMPACT-MODIFIED POLYPROPYLENE.
- 5. THE CHAMBER SHALL BE ARCHED IN SHAPE.

6. THE CHAMBER SHALL BE OPEN-BOTTOMED.

- 7. THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE
- 8. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER® 902HD SHALL BE 48 INCHES (1219 mm) TALL, 78 INCHES (1981 mm) WIDE AND 4.10 FEET (1.25 mm) LONG, THE INSTALLED LENGTH OF A JOINED RECHARGER® 902HD SHALL BE 3.67 FEET (1.12 m).
- 9. MULTIPLE CHAMBERS MAY BE CONNECTED TO FORM DIFFERENT LENGTH ROWS. EACH ROW SHALL BEGIN AND END WITH A SEPARATELY FORMED CULTEC RECHARGER® 902HD END CAP.
- MAXIMUM INLET OPENING ON THE END CAP IS 24 INCHES (600 mm). 10. THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV™ FC-48 FEED
- CONNECTORS TO CREATE AN INTERNAL MANIFOLD. MAXIMUM ALLOWABLE PIPE SIZE IN THE SIDE PORTAL IS 11.5 INCHES (292 mm) 11. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV™ FC-48 FEED CONNECTOR SHALL
- BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 49 INCHES (1245 mm) LONG. 12. THE NOMINAL STORAGE VOLUME OF THE RECHARGER® 902HD CHAMBER SHALL BE 17.66 FT3 / FT (1.641 m3 / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED
- RECHARGER® 902HD SHALL BE 64.75 FT3 / UNIT (1.834 m3 / UNIT) WITHOUT STONE. 13. THE NOMINAL STORAGE VOLUME OF THE HVLV™ FC-48 FEED CONNECTOR SHALL BE 0.913 FT3 / FT (0.085 m3 / m) - WITHOUT STONE.
- 14. THE RECHARGER® 902HD CHAMBER SHALL HAVE TWENTY-FOUR DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
- 15. THE RECHARGER® 902HD CHAMBER SHALL HAVE 7 CORRUGATIONS.
- 16. THE CHAMBER SHALL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH NEAR THE
- CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
- 17. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION. 18 THE CHAMBER SHALL BE MANUFACTURED IN A FACILITY EMPLOYING CULTEC'S QUALITY
- CONTROL AND ASSURANCE PROCEDURES.
- 19.MAXIMUM ALLOWABLE COVER OVER THE TOP OF THE CHAMBER SHALL BE 8.3 FEET (2.53 m).
- 1. THE CULTEC RECHARGER® 902HD END CAP (REFERRED TO AS 'END CAP') SHALL BE MANUFACTURED IN THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- 2. THE END CAP SHALL BE TWIN-SHEET THERMOFORMED OF BLACK VIRGIN HIGH MOLECULAR
- 3. THE END CAP SHALL BE JOINED AT THE BEGINNING AND END OF EACH ROW OF CHAMBERS USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY

CHAMBER, THE INSTALLED LENGTH OF THE END CAP SHALL BE 6.2 INCHES (157 mm).

- 4 THE NOMINAL DIMENSIONS OF THE FND CAP SHALL BE 48.5 INCHES (1231 mm) TALL, 78 INCHES (1982 mm) WIDE AND 9.7 INCHES (246 mm) LONG. WHEN JOINED WITH A RECHARGER 902HD
- 5. MAXIMUM INLET OPENING ON THE END CAP IS 24 INCHES (600 mm).

SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.

6. THE END CAP SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12.

### **CULTEC HVLV FC-48 FEED CONNECTOR PRODUCT SPECIFICATIONS**

CULTEC HVLV FC-48 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER MODEL 902HD STORMWATER CHAMBERS.

- FEED CONNECTOR PARAMETERS 1. THE FEED CONNECTOR SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- 2. THE FEED CONNECTOR SHALL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE)
- 3. THE FEED CONNECTOR SHALL BE ARCHED IN SHAPE.
- 4. THE FEED CONNECTOR SHALL BE OPEN-BOTTOMED
- 5. THE NOMINAL DIMENSIONS OF THE CULTEC HVLV FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 49 INCHES (1245 mm) LONG.
- 6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-48 FEED CONNECTOR SHALL BE 0.913 FT<sup>3</sup> / FT (0.085 m3/m) - WITHOUT STONE.
- 7. THE HVLV FC-48 FEED CONNECTOR SHALL HAVE 4 CORRUGATIONS.
- 8. THE HVLV FC-48 FEED CONNECTOR MUST BE FORMED AS A WHOLE UNIT HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
- . THE FEED CONNECTOR SHALL BE DESIGNED TO WITHSTAND AASHTO HS-25 DEFINED LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- 10. THE FEED CONNECTOR SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

### **CULTEC NO. 66™ WOVEN GEOTEXTILE**

### GENERAL

CULTEC NO. 66™ WOVEN GEOTEXTILE IS UTILIZED AS AN UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE.

### **GEOTEXTILE PARAMETERS**

- 1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- 2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
- 3. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 315 LBS (1.40KN) PER ASTM D4632 TESTING METHOD. 4. THE GEOTEXTILE SHALL HAVE A TENSILE ELONGATION RESISTANCE OF 15% PER ASTM D4632 TESTING METHOD.
- 5. THE GEOTEXTILE SHALL HAVE A MULLEN BURST RESISTANCE OF 600PSI (4138 KPA) PER ASTM D3786 TESTING METHOD.
- 6. THE GEOTEXTILE SHALL HAVE A TEAR RESISTANCE OF 115 LBS (0.51 KN) PER ASTM D4533 TESTING METHOD. 7. THE GEOTEXTILE SHALL HAVE A PUNCTURE RESISTANCE OF 150 LBS (0.66 KN) PER ASTM D4833 TESTING METHOD.
- 8. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 900 LBS (4.00 KN) PER ASTM D6241 TESTING METHOD.
- 9. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 70% @ 500 HRS. PER ASTM D4355 TESTING METHOD. 10. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.05 SEC-1 PER ASTM D4491 TESTING METHOD.
- 11. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 4 GPM/FT2 (160 LPM/M2) PER ASTM D4491 TESTING METHOD. 12. THE GEOTEXTILE SHALL HAVE A PERCENT OPEN AREA OF <1% PER CW-02215 TESTING METHOD. 13. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM D4751 TESTING
- 14. THE GEOTEXTILE SHALL CONSIST OF A 100% HIGH-TENACITY, SILT-FILM POLYPROPYLENE YARNS.

#### GENERAL EROSION CONTROL AND CONSTRUCTION NOTES

- 1. THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION, ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE SHALL REMAIN TOTALLY UNDISTURBED.
- 2. INSPECT ALL SEDIMENT AND EROSION CONTROL MEASURES AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER EVERY RAINFALL EVENT.
- 3. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES OR
- REPLACE AS REQUIRED TO ASSURE PROPER FUNCTION. 4. CONTRACTOR SHALL IMMEDIATELY REPAIR ANY AND ALL EROSION
- AND SEDIMENT CONTROLS FOUND TO BE FAULTY. 5. ANY AND ALL DEBRIS AND LITTER WHICH ACCUMULATES IN THE

BASINS SHALL BE REMOVED WEEKLY.

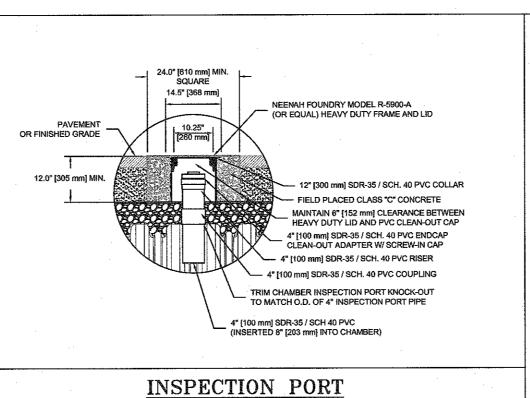
- 6. THE CONTRACTOR SHALL IMPLEMENT ALL REASONABLE EROSION AND SEDIMENT CONTROLS PRIOR TO THE ACTUAL COMMENCEMENT OF CONSTRUCTION ACTIVITIES INCLUDING THE CLEARING AND/OR GRUBBING OF ANY PORTION OF THE PROPERTY. THESE MEASURES SHALL BE MAINTAINED IN EFFECT THROUGHOUT THE ENTIRE CONSTRUCTION PHASE, OR UNTIL THE SITE HAS BECOME
- STABILIZED WITH AN ADEQUATE VEGETATIVE COVER. SEDIMENT BUILD UP BEHIND FILTERMITT SHALL BE MONITORED AND BE REMOVED WHENEVER IT HAS ACCUMULATED TO FOUR INCHES IN DEPTH.
- 8. CATCH BASINS SHALL BE PROTECTED WITH SILT FILTERS (SILT SACKS). INSPECT SEDIMENT FILTERS AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER RAINFALL THAT PRODUCES RUNOFF

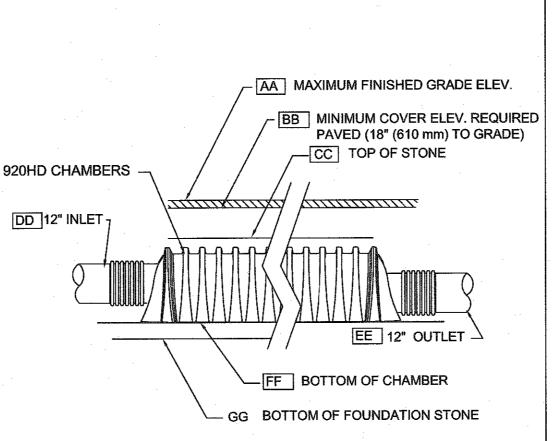
9. CLEAN OR REPLACE FILTERS WITHIN 24 HOURS OF INSPECTION

- WHEN SEDIMENT REACHES ONE HALF OF THE FILTER SACK DEPTH. CATCH BASINS SHALL BE PROTECTED BY SEDIMENT FILTERS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED. SUMPS SHALL BE CLEANED WHENEVER SEDIMENT HAS ACCUMULATED TO A DEPTH OF 24 INCHES AND IMMEDIATELY FOLLOWING INSTALLATION OF PERMANENT PAVEMENT.
- 10. THE CONTRACTOR SHALL MAINTAIN AN ADEQUATE STOCKPILE OF EROSION CONTROL MATERIALS ON-SITE AT ALL TIMES FOR EMERGENCY OR ROUTINE REPLACEMENT AND SHALL INCLUDE MATERIALS TO REPAIR OR REPLACE SILT FENCE, MULCH SOCK, STONE FILTER DIKES OR ANY OTHER DEVICES PLANNED FOR USE DURING CONSTRUCTION.
- 11. THE CONTRACTOR IS TO INSPECT ALL CONTROLS NO LESS THAN WEEKLY, AND IN ANTICIPATION OF RAINFALL EVENTS EXPECTED TO EXCEED 1/2 INCH IN DEPTH. ALL DEFICIENCIES NOTED DURING SAID INSPECTION SHALL BE REPAIRED IMMEDIATELY AND IN NO CASE SHALL A DEFICIENCY BE ALLOWED TO GO UNCORRECTED DURING A RAINFALL EVENT. THE EROSION CONTROL DEVICES SHALL BE MAINTAINED, REINFORCED, OR REPLACED IF NECESSARY. ALL ACCUMULATED SEDIMENTS AND OTHER MATERIALS COLLECTED
- 12. BY THE SEDIMENTATION CONTROL SYSTEMS SHALL BE REMOVED AS NECESSARY TO INSURE PROPER FUNCTION OF SYSTEMS AND DISPOSED OF IN A MANNER THAT IS CONSISTENT WITH THE INTENT OF THIS PLAN, IN AN UPLAND AREA.
- 13. TEMPORARY EARTH OR STONE DIKES, DRAINAGE SWALES AND/OR TEMPORARY SLOPE DRAINS SHALL BE INSTALLED WHERE OFF-SITE OR ON-SITE RUNOFF IS SUFFICIENT ENOUGH SUCH THAT IT WILL BE NECESSARY TO DIVERT THE FLOW AROUND THE SITE OR PREVENT EROSION WITHIN THE LIMITS OF WORK
- 14. STORM DRAIN INLET PROTECTION SHALL BE USED FOR ALL EXISTING AND PROPOSED CATCH BASINS IN THE PROJECT AREA. PRIOR TO COMPLETION OF THE PROJECT, ALL CATCH BASINS WITHIN THE PROJECT AREA SHALL BE CLEANED.
- 15. ALL DISTURBED EARTH SLOPES AREA TO BE STABILIZED WITH PERMANENT VEGETATIVE COVER, TO BE ESTABLISHED AS SOON AS POSSIBLE, DISTURBED AREAS THAT ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL RECEIVE A PERMANENT OR TEMPORARY VEGETATIVE COVER AS SOON AS FINAL CONTOURS ARE ESTABLISHED. TEMPORARY VEGETATIVE COVER IS TO BE ESTABLISHED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES WILL NOT REQUIRE ADDITIONAL DISTURBANCE FOR PERIOD OF 30 DAYS OR MORE. IF THE SEASON PREVENTS THE ESTABLISHMENT OF VEGETATIVE COVER, DISTURBED AREAS SHALL BE MULCHED AND THEN SEEDED AS SOON AS WEATHER CONDITIONS ALLOW.
- 16. THERE SHALL BE NO DIRECT DISCHARGE OF DEWATERING OPERATIONS INTO ANY DRAINAGE SYSTEM UNLESS THIS DISCHARGE IS CLEAN AND FREE OF SETTLEABLE SOLIDS. ANY DEWATERING DISCHARGE CONTAINING SETTLEABLE SOLIDS (SEDIMENTS) SHALL BE PASSED THROUGH A SEDIMENTATION CONTROL DEVICE(FILTER BAG) TO REMOVE THESE SOLIDS. THE CONTRACTOR IS TO MAINTAIN SAID SEDIMENT CONTROL DEVICE THROUGHOUT THE ENTIRE DEWATERING OPERATION AND REPAIR DEFICIENCIES IMMEDIATELY.
- 17. SOIL STOCKPILE AREAS FOR CONSTRUCTION MATERIALS SHALL BE LOCATED OUTSIDE WETLAND AREAS AND ASSOCIATED BUFFERS.
- 18. ALL PLANTINGS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS THE POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION.
- 19. ALL PLANTINGS SHALL BE WATERED AND MAINTAINED BY THE CONTRACTOR TO ENSURE SURVIVAL.
- 20. EROSION CONTROL SHALL REMAIN IN PLACE UNTIL THE CERTIFICATE OF COMPLETION IS ISSUED

### **INTERIM EROSION CONTROL AND** CONSTRUCTION SEQUENCE

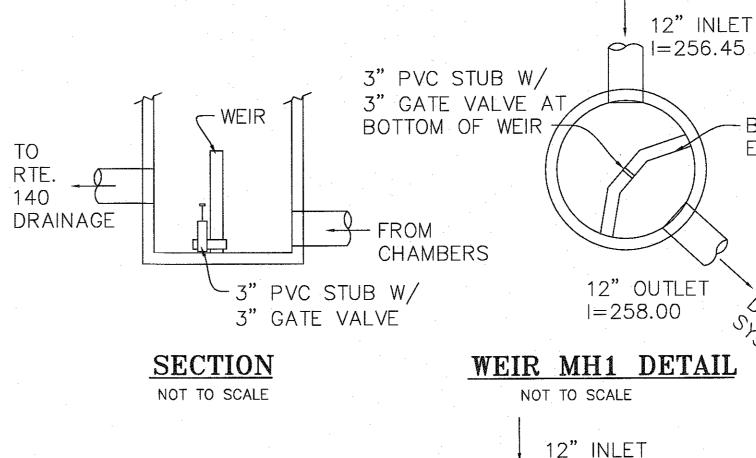
- INSTALL EROSION CONTROL BARRIERS AND HAVE ENGINEER INSPECT AND PREPARE LETTER
- RAZE THE EXISTING BUILDINGS, PAVEMENT, WALKWAYS, ETC CLEAR SITE OF ALL TREES DESIGNATED TO BE REMOVED. CONSTRUCT A TEMPORARY BASIN TO COLLECT RUNOFF DURING
- CONSTRUCTION. STOCKPILE LOAM, OR REMOVE LOAM.
- INSTALL PIPES FOR DRAINAGE SYSTEMS. INSTALL DISCHARGE POINT ON EACH SYSTEM.
- BRING SITE TO SUB-GRADE. ALL SLOPES ALONG THE PROPERTY LINES SHALL BE MULCHED TEMPORARILY. IF DISTURBED
- TEMPORARY STONE (3/4" 1 1/2") SHALL BE PLACED AT THE PROJECT ENTRANCE WHEN ACCESSING EXISTING PAVEMENT. SWEEPING IS REQUIRED IF FINES ARE OBSERVED IN THE
- PARKING LOT OR PUBLIC WAYS. 9. ALL DISTURBED AREAS NOT TREATED WITH PERMANENT LOAM AND SEED SHALL BE COVERED WITH MULCH, OR OTHER EROSION
- CONTROL DEVISE. 10. ALL CONSTRUCTION GRADES IN THE INTERIM SHALL BE SLOPED
- TO FLOW INTO THE TEMPORARY BASIN, WHERE POSSIBLE. 11. THE SITE MITIGATION OF EROSION IN THOSE AREAS TO BE LANDSCAPED OR MULCHED SHALL BE TO INSTALL AS SOON AS
- POSSIBLE. 12. CLEAN ALL SEDIMENT OUT OF TEMPORARY BASIN AND INSTALL CLEAN FILL PER PLAN SPECIFICATIONS PRIOR TO FINAL GRADING
- AND SURFACE STABILIZATION. THE SUBSURFACE DRAINAGE SYSTEM SHALL BE INSTALLED PRIOR TO PAVEMENT INSTALLATION PROPER FILTERFABRIC SHALL BE PLACED AT INLETS TO KEEP THE STORM DRAINAGE
- CLEAN OF DEBRIS. 14. ONCE THE CURB IS INSTALLED, THE PERMANENT MULCH AND LANDSCAPING SHALL BE INSTALLED.
- 15. SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED.
- 16. CLEAN ALL ON SITE CATCH BASINS, MANHOLES, PIPING TEMPORARY BASIN, AND INFILTRATION CHAMBERS. INSTALL SILT BAGS AT EACH CATCH BASIN.
- 17. KEEP SITE SWEPT AND MAINTAINED PER STORMWATER MANAGEMENT PLAN.

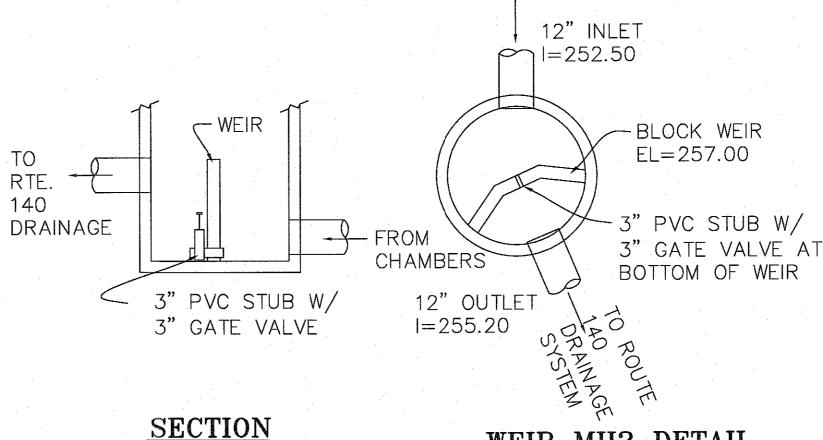




		RECH-1	RECH-2
AA	MAXIMUM FINISHED GRADE ELEV.	268.21	265.70
ВВ	MINIMUM COVER ELEV.	265.60	261.13
СС	TOP OF STONE	261.45	257.50
DD	12" INLET	257.68	254.46
EE	12" OUTLET	256.45	252.50
FF	BOTTOM OF CHAMBER	256.45	252.50
GG	BOTTOM OF FOUNDATION STONE	255.70	251.75

CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH AST F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC MIN. 95% COMPACTED FILL -- 1-2 INCH [25-51 mm] DI/ CULTEC NO. 410 NON-WOVEN GEOTEXTILE AROUND STONE, TOP AND SIDES MANDATORY, BOTTOM PER SURROUNDING CHAMBER ENGINEER'S DESIGN PREFERENCE WHERE SPECIFIED 12.0" [305 mm] MIN, FOR PAVED FINISHED GRADE 2.0" [305 mm] MIN 48.0" [1219 mm] 87.0" [2211 mm] MIN. CENTER TO CENTER 78.0" [1982 mm] ——— 12.0" [305 mm] MIN. - THE DESIGN ENGINEER IS RESPONSIBLE FOR ENSURING THAT CULTEC NO. 66 WOVEN GEOTEXTILE (FOR SCOUR PROTECTION) TO BE PLACED TH INTERNAL MANIFOLD FEATURE AND BENEATH ALL INLET/OUTLET PIPE 1-2 INCH [25-51 mm] WASHED, CRUSHED STONE PIPE DESIGN AND ELEVATION PER ENGINEER, PIPE - PAVEMENT OR FINISHED GRAD STRUCTURE AND 8.0" [203 mm] MiN. INTO CHAMBER CULTEC NO. 410 NON-WOVEN GEOTEXTILE AROUND STONE. TOP AND SIDES MANDATORY, BOTTOM PER ENGINEER'S DESIGN PREFERENCE (SEE DETAIL (A) COMPACTED FIL SIDE PORTAL TO BE CUT IN FIELD TO ALLOW FOR -HVLV FC-48 FEED CONNECTOR AS NEEDED, CUT SHALL BE WITHIN 1/4" [6 mm] TOLERANCE OF SIDE CULTEC NO. 66 WOVEN GEOTEXTILE (FOR SCOUR CTION) TO BE PLACED BENEATH INTERNAL MANIFOLD PORTAL TRIM GUIDELINE FEATURE AND BENEATH ALL INLET/OUTLET PIPES THE DESIGN ENGINEER IS RESPONSIBLE FOR ENSURING THAT -F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" THE REQUIRED BEARING CAPACITY OF SUB-GRADE SOILS HAS BEEN MET CULTEC HVLV FC-48 FEED CONNECTOR 2.0 INCH (305 mm) MIN, DEPTH O 12.0' (3.66 m) MIN. CULTEC NO. 66 WOVEN GEOTEXTILE PLACED BENEATH INLET PIPES STONE BORDER SURROUNDING CULTEC NO. 66 WOVEN GEOTEXTILI 9.0 INCH [229 mm] MIN. DEPTH OF PIPE DESIGN AND ELEVATION TBD BY ENGINEER.
PIPE TO BE INSERTED 8.0 INCHES [204 mm] MIN. INTO CHAMBER
MAX. 24.0 INCHES [500 mm] I.D. ALLOWED IN ENDWALL 920HD XLHD RECHARGER INFILTRATION CHAMBERS





NOT TO SCALE

WEIR MH2 DETAIL

NOT TO SCALE

APPROVED DATE: FRANKLIN PLANNING BOARD BEING A MAJORITY DALE CIVIL No. 34575

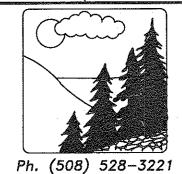
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JOEL D'ERRICO 72 DEERVIEW WAY FRANKLIN, MA 02038

**PROFESSIONAL** 

**ENGINEER** 

REVISIONS REVISED DATE WIDEN ROADWAY TO 24', ADDED SIDWALK 11/20/17 AND PAVERS FOR FIRE ACCESS



BLOCK WEIR

EL = 261.25

PROFESSIONAL

LAND SURVEYOR

juerriere Halnon,Inc. Engineering & Land Surveying 55 WEST CENTRAL STRÉET

FRANKLIN, MA 02038 Fx. (508) 528-7921 www.guerriereandhalnon.com

SITE PLAN FOR HIGHLAND VILLAGE 278-300 WEST CENTRAL STREET

FRANKLIN **MASSACHUSETTS** 

CONSTRUCTION DETAILS

SEPT. 26, 2017 AS NOTED JOB NO. **F3988** SHEET 13 OF 13

