PROJECT INFORMATION

SITE ADDRESS - 23 CENTRAL STREET, BYFIELD, MA | ASSESSOR MAP R-20-0-28

OWNER - R&E REALTY TRUST, 2 FRUIT STREET, BYFIELD MA 01922 TRUSTEES RONALD O. PEARSON & EDNA L. PEARSON

APPLICANT - A.L. PRIME ENERGY CONSULTANT, INC., 18 LARK AVE, SAUGUS MA

- ANTHONY GUBA, ENGR 512-745-6400
- NASSER ABU-EID, VP 617-212-3551

EMERGENCY - 911 || DIGSAFE - 811

BYFIELD INSPECTIONAL SVCS AND BLDG COMMISSIONER - 978-465-0862

BYFIELD FIRE DEPT (BUSINESS) - 978-462-2282 BYFIELD POLICE (BUSINESS) - 978-462-4440 BYFIELD PUBLIC WORKS - 978-465-0112

ELECTRIC UTILITY - NATIONAL GRID - 800-233-5325 GAS UTILITY - NATIONAL GRID - 800-233-5325

WATER UTILITY - BYFIELD WATER DISTRICT - 978-462-3023 SEWER UTILITY - ON SITE SEPTIC SYSTEM, BD OF HEALTH - 978-465-0862 x316

PROJECT GENERAL SCOPE OF WORK

THIS PROJECT IS INTENDED TO REPLACE THE EXISTING NON-CONFORMING RESIDENTIAL USE WITH AN ALLOWED BUSINESS USE - NEW CONVENIENCE STORE AND GAS STATION. THE WORK WILL INCLUDE:

- DEMOLISH ALL EXISTING IMPROVEMENTS AT THE PROPERTY
- INSTALL NEW STORMWATER STRUCTURES INCLUDING SUBSURFACE INFILTRATION CONSTRUCT NEW ~4,000 SF CONVENIENCE STORE INCLUDING COFFEE DRIVE-THRU (WITH LIMITED INSIDE SEATING).
- INSTALL ALL NEW UTILITIES
- CONSTRUCT NEW STEEL CANOPY OVER FUELING AREAS
- INSTALL UG MOTOR FUEL STORAGE TANKS AND ASSOCIATED UG PIPING TO INCLUDE DIESEL, FUEL DISPENSERS, ISLANDS, AND DRY CHEMICAL FIRE SUPPRESSION SYSTEM AT **FUELING AREA**
- INSTALL ALL NEW CURBING, PAVING, ACCESS DRIVEWAYS AND SITE LANDSCAPE
- THE BUSINESS IS PROPOSED TO OPERATE 24 HRS

CODES SUMMARY

- MA STATE BUILDING CODE 780, 9TH EDITION BASED ON MODIFIED VERSION OF 2015 INTERNATIONAL CODES AS PUBLISHED BY INTL CODE COUNCIL (ICC):
 - IBC INTL BUILDING CODE
 - IECC INTL ENERGY CONSERVATION CODE
- IMC INTL MECHANICAL CODE
- IFC PORTIONS OF INTL FIRE CODE MA STATE FIRE CODE 527 CMR 1.00, 2015 EDITION
- MA ELECTRICAL CODE 527 CMR 12.00, 2017 EDITION
- MA UNIFORM STATE PLUMBING CODE 248 CMR 10, 2017 EDITION
- ARCHITECTURAL ACCESS BOARD REGULATIONS CMR 521 CMR - EPA GEN CONST PERMIT - SITE IS LESS THAN ONE ACRE AND CONST PHASE RUNOFF WILL BE RETAINED ON SITE. HOWEVER, GC TO VERIFY NPDES PERMIT NOT REQ'D PRIOR TO CONST

OCCUPANCY - USE GROUP M MERCANTILE - CONVENIENCE STORE AND GAS STATION TOTAL GROSS FOOT AREA - ~4,000 GFA CONVENIENCE STORE CONSTRUCTION TYPE - IIIB - NON COMBUSTIBLE EXT WALLS, STEEL ROOF FRAMING/DECK HEIGHT - ~20'-2" (SINGLE STORY)

EGRESS:

- MAX EGRESS TRAVEL DISTANCE 75 FEET SINGLE STORY
- PROVIDED EGRESS WIDTH 72" ONE EACH EGRESS AT FRONT CENTER
- OCCUPANCY CALC 69 = 60 MERCANTILE + 4 KITCHEN + 5 STORAGE
- OCCUPANCY EXCEEDING 49 REQUIRES SECONDARY EGRESS

FIRE PROTECTION: UNPROTECTED CONSTRUCTION. PROVISIONS MADE FOR SMOKE DETECTORS, EMERGENCY LIGHTING AND SIGNAGE, HORN AND STROBE ANNUNCIATORS

PLUMBING:

- COMPLY WITH STATE PLUMBING AND FUEL GAS CODES
- MIN OF ONE RESTROOM FOR MEN AND ONE RESTROOM FOR WOMEN
- COMPLY WITH BOARD OF HEALTH REQUIREMENTS FOR RETAIL AND FOOD SERVICE
- ON-SITE SEPTIC SYSTEM PER APPROVED DESIGN
- EXTERNAL GREASE TRAP TO BE INSTALLED

ENERGY: CLIMATE ZONE 5

- WALLS CMU WITH FURRED INTERIOR DRYWALL R 13.3ci
- FLAT ROOF R 30 ci
- SLAB ON GRADE R-15 FOR 36" BELOW - WINDOWS AND STOREFRONT
- -- SOUTHWEST FACING
- -- <30% WALL AREA
- -- NO OPERABLE FENESTRATION
- -- U 0.38 FIXED, 0.77 ENTRANCE DOOR

- **DESIGN LOADS:** - GROUND SNOW LOAD - 50 PSF
- ROOF TOP MECH LOAD POINT LOAD SPECIFIED ON STRUCTURAL SHEET
- ROOF UPLIFT 40PSF
- PRESUMPTIVE SOIL BEARING 2,500 PSF
- DESIGN WIND LOAD (I) 114MPH, (II) 125MPG, (III) 136MPG
- SEISMIC S1- 0.077



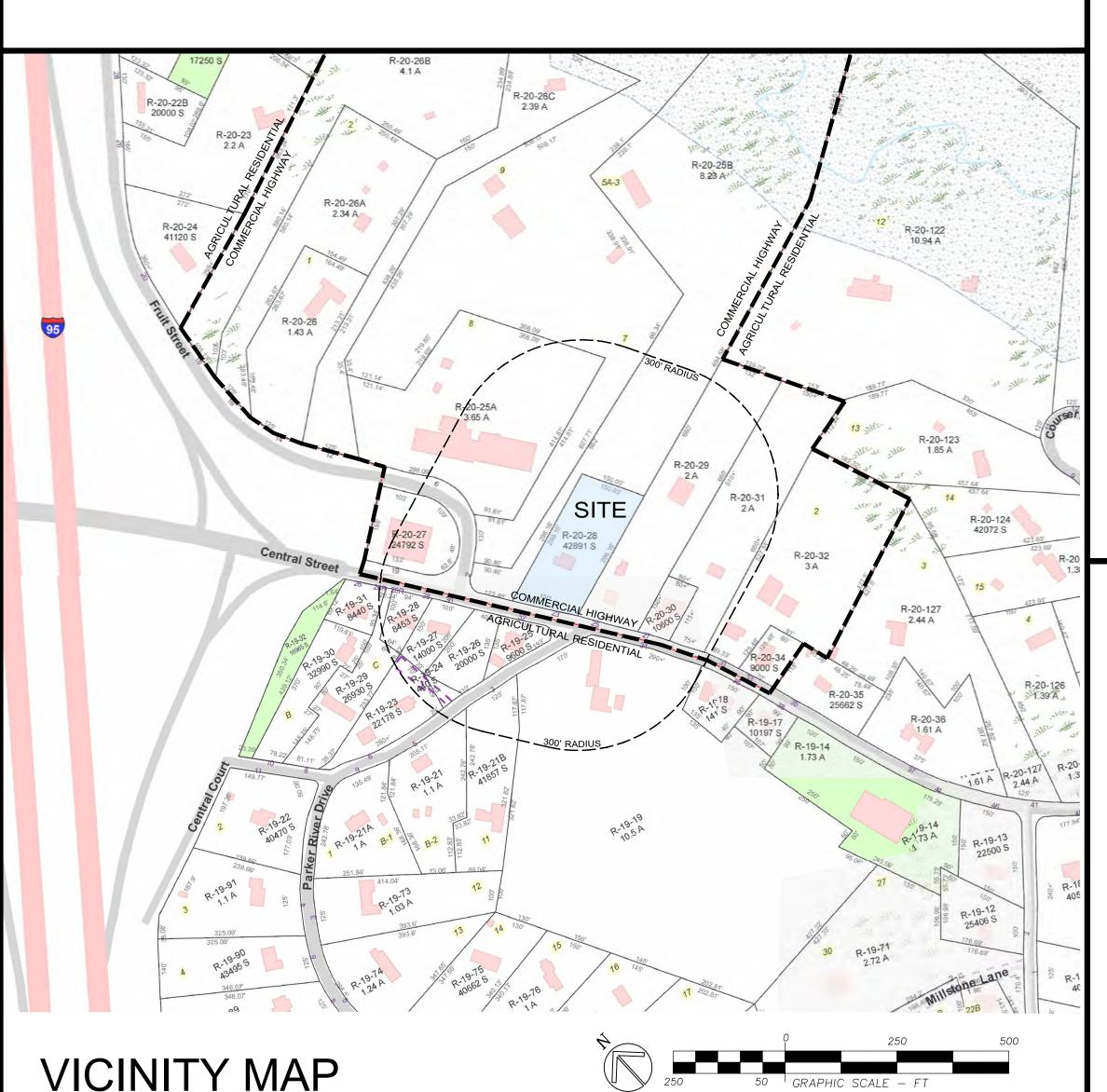
A.L. PRIME ENERGY CONSULTANT, INC.

18 LARK AVENUE SAUGUS MA 01906 (781) 246-0201

NEW GAS STATION, C-STORE, DRIVE-THRU A.L. PRIME #TBD

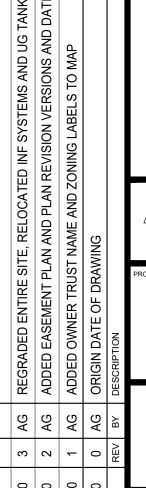
> 23 CENTRAL STREET BYFIELD, MASS

APPLICANT CONTACT: ANTHONY GUBA, P.E. -- MOBILE 512-745-6400



Т	THIS SET ISSUED FOR SPR & SP 11/4/20 3rd H	HRG, W/ REV F	PER CMT	S				
		ORIG DATE	LAST REV	REV DATE				
C-0	COVER	29 APR 2020 2						
1 of 2	EXSTG CONDITIONS SHT 1 OF 2 (ELS, LLC)	12 DEC 2019	4	20 AUG 20				
2 of 2	EXSTG CONDITIONS SHT 2 OF 2 (ELS, LLC)	12 DEC 2019	4	20 AUG 20				
1	EASEMENT PLAN SHT 1 (ELS, LLC)	22 SEP 2020	NONE	N/A				
C-1.0	PROPOSED SITE IMPROVEMENTS	29 APR 2020	3	28 OCT 20				
C-2	GRADING	29 APR 2020	2	28 OCT 20				
C-3	UTILITIES	29 APR 2020	2	28 OCT 20				
ER-1	EROSION CONTROL	29 APR 2020	2	28 OCT 20				
SW-1	STORMWATER AREAS	29 APR 2020	2	28 OCT 20				
L-1	LANDSCAPE	29 APR 2020	2	21 SEP 20				
6493	LIGHTING (RED LEONARD ASSOC)	C) 04 DEC 2019 1						
TR-1	EMGCY, TANKER, & DRIVE-THRU VEHICLE PATH	29 APR 2020	2	28 OCT 20				
TK-1	TANK AND PIPING LAYOUT	29 APR 2020	2	28 OCT 20				
TK-2	TANK AND PIPING DETAILS	29 APR 2020	NONE	N/A				
FSP-1	SELF SERVICE FIRE SUPPRESSION	29 APR 2020	2	28 OCT 20				
FSP-2	SELF SERVICE FIRE SUPPRESSION	29 APR 2020	2	28 OCT 20				
SD-1	SITE DETAILS	29 APR 2020	2	28 OCT 20				
SD-2	SITE DETAILS	29 APR 2020	2	28 OCT 20				
A1.0	FLOOR PLAN	29 APR 2020	2	28 OCT 20				
A2.1	BUILDING ELEVATIONS	29 APR 2020	1	23 SEP 20				
A2.2	BUILDING ELEVATIONS	29 APR 2020	2	28 OCT 20				
A2.3	CANOPY ELEVATIONS 29 APR 2020 2 28 OCT							
SG-1	SIGN AND GRAPHICS	29 APR 2020	1	23 SEP 20				

DRAWING INDEX







A.L. PRIME ENERGY CONSULTANT, INC. 18 LARK AVENUE SAUGUS MA 01906

BYFIELD, MA 23 CENTRAL STREET

PROJECT **COVER SHEET**

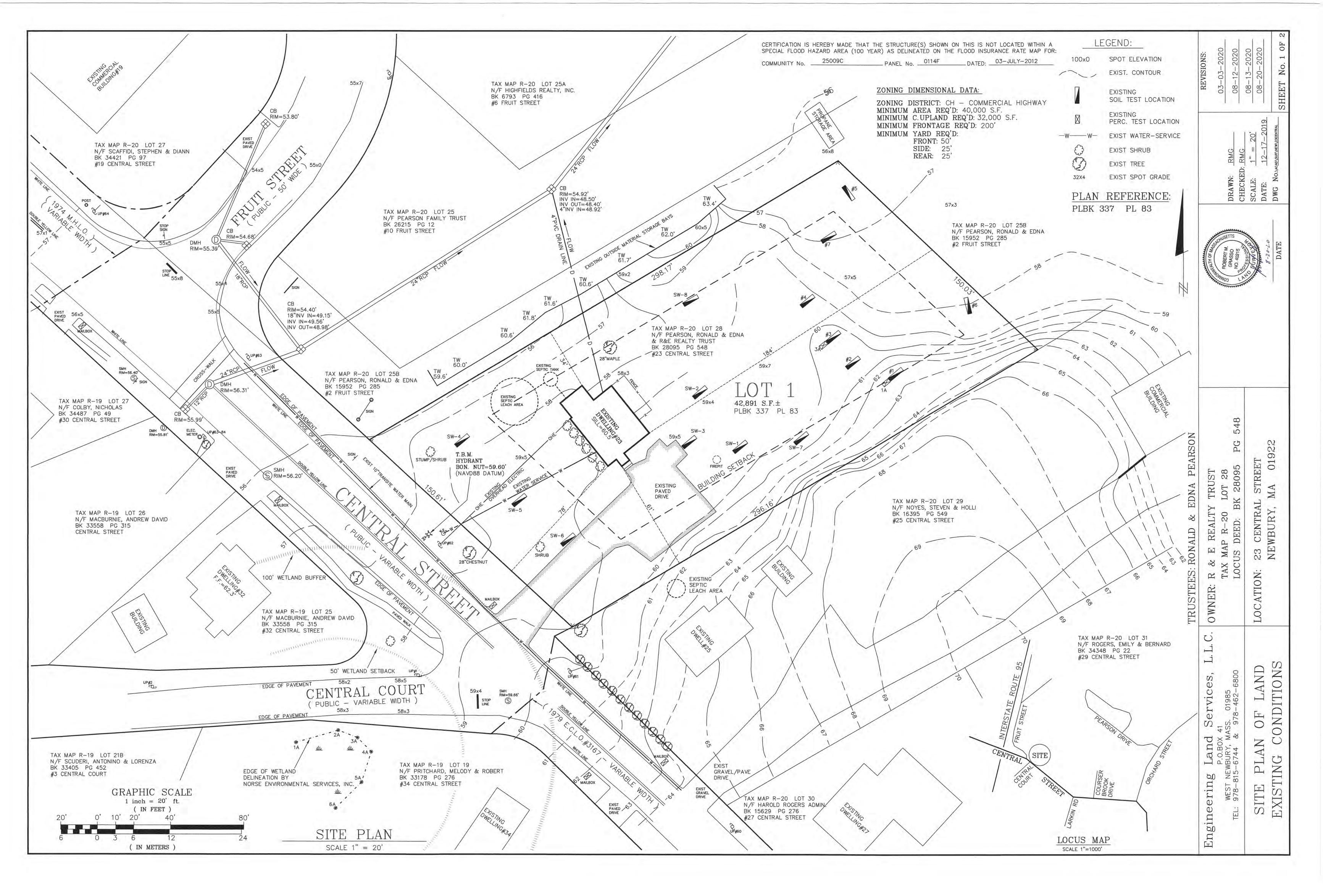
TBD-019-01 BYFIELD

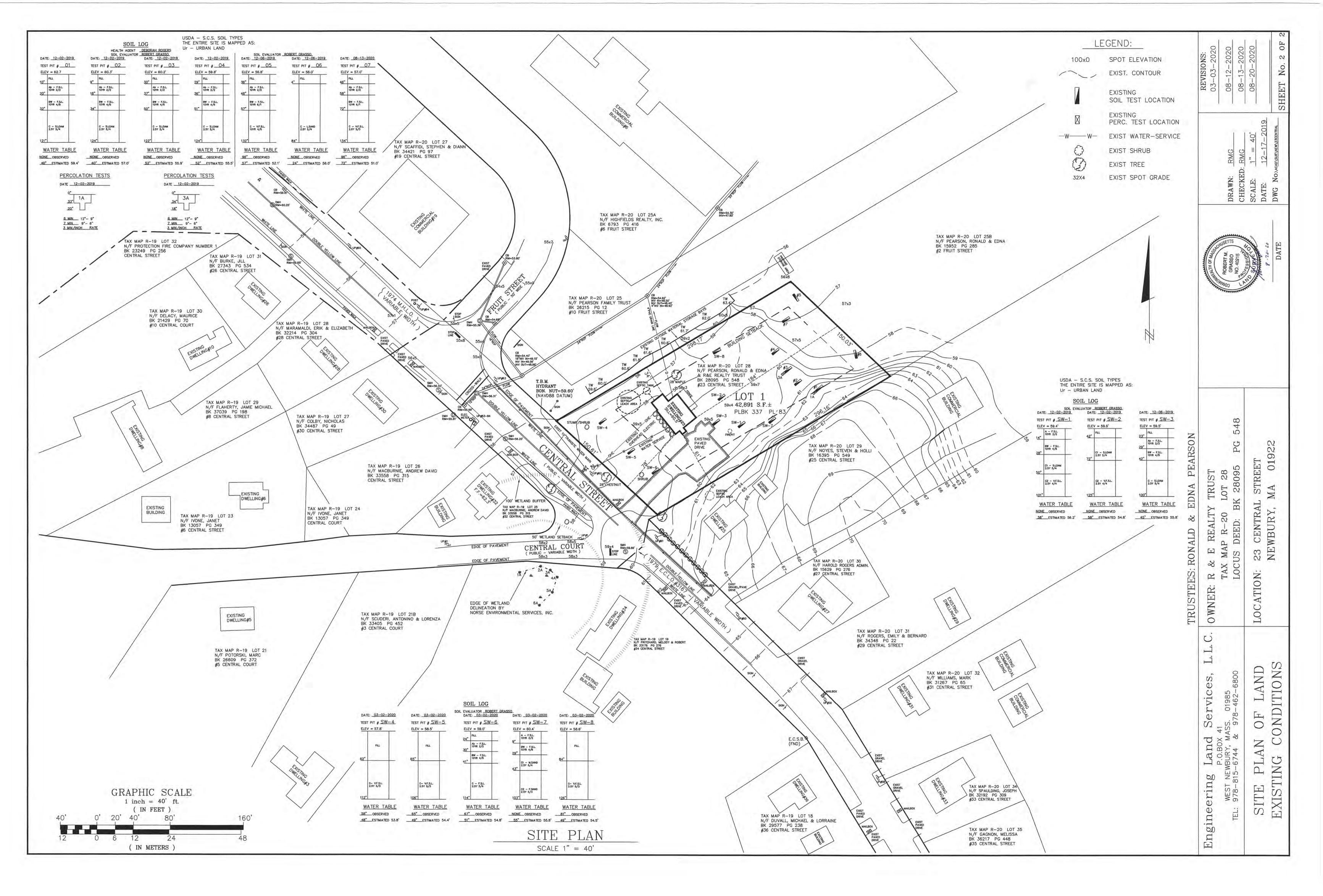
AS NOTED

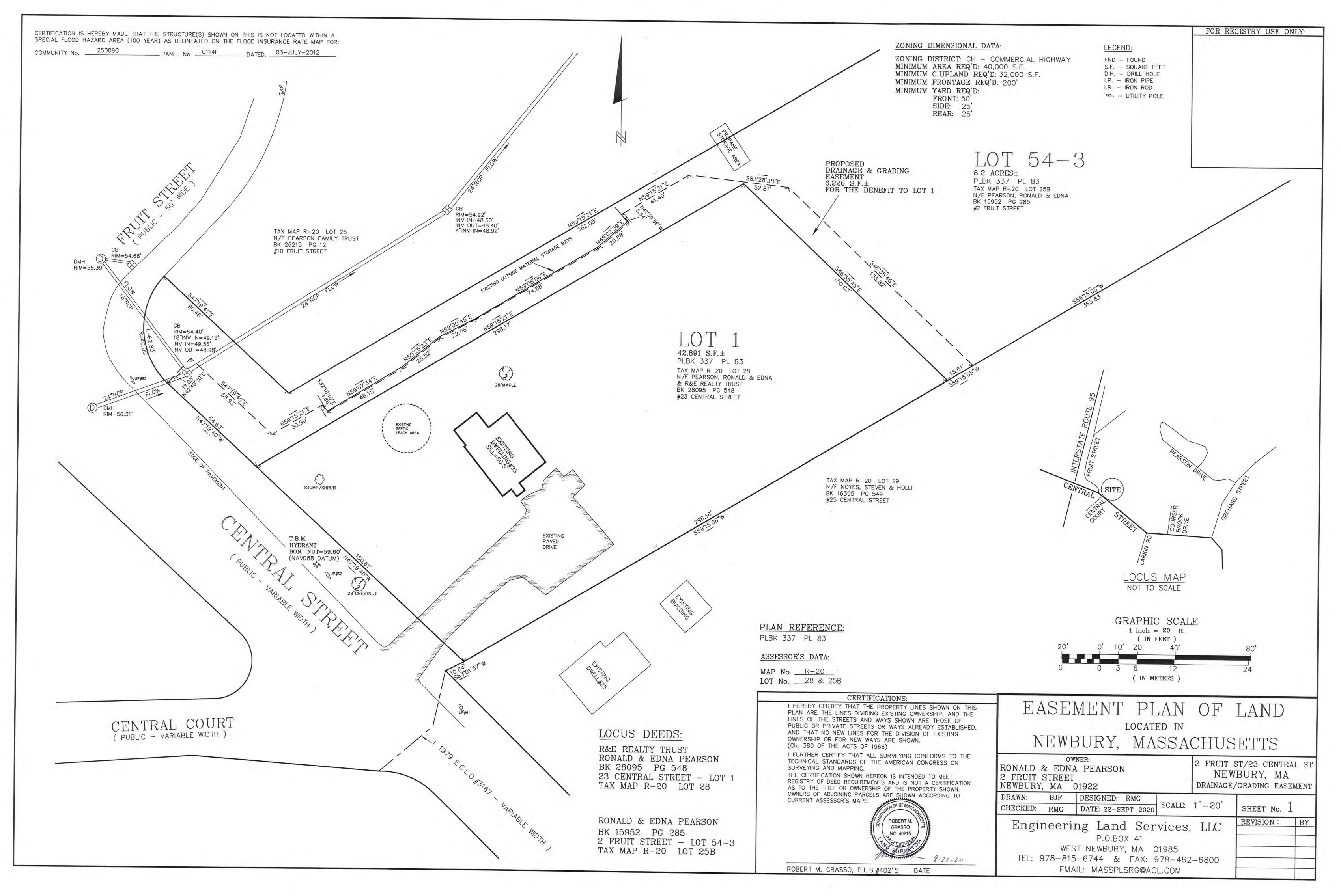
C-0

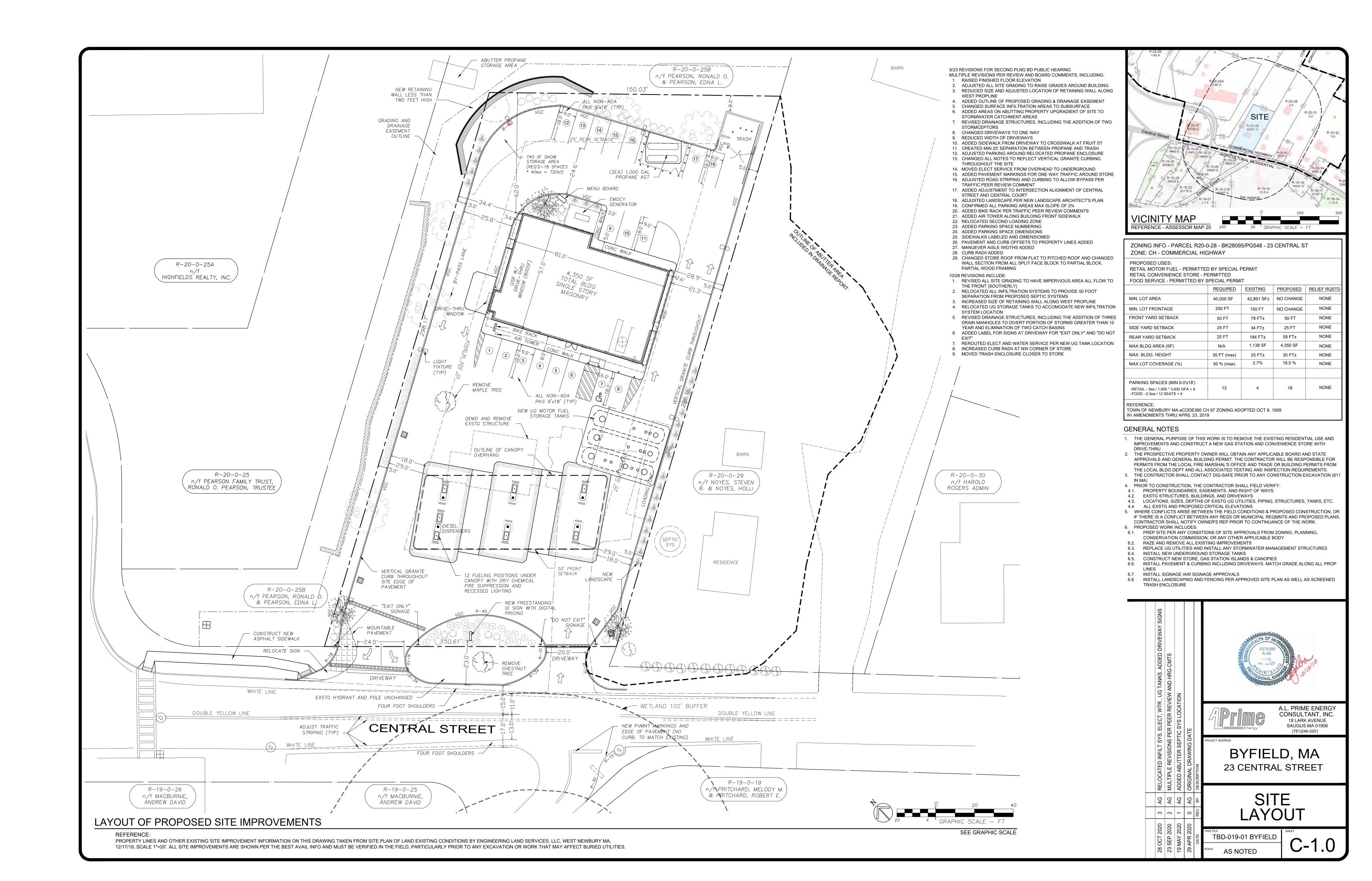
REFERENCE - TOWN OF NEWBURY ASSESSOR MAPS

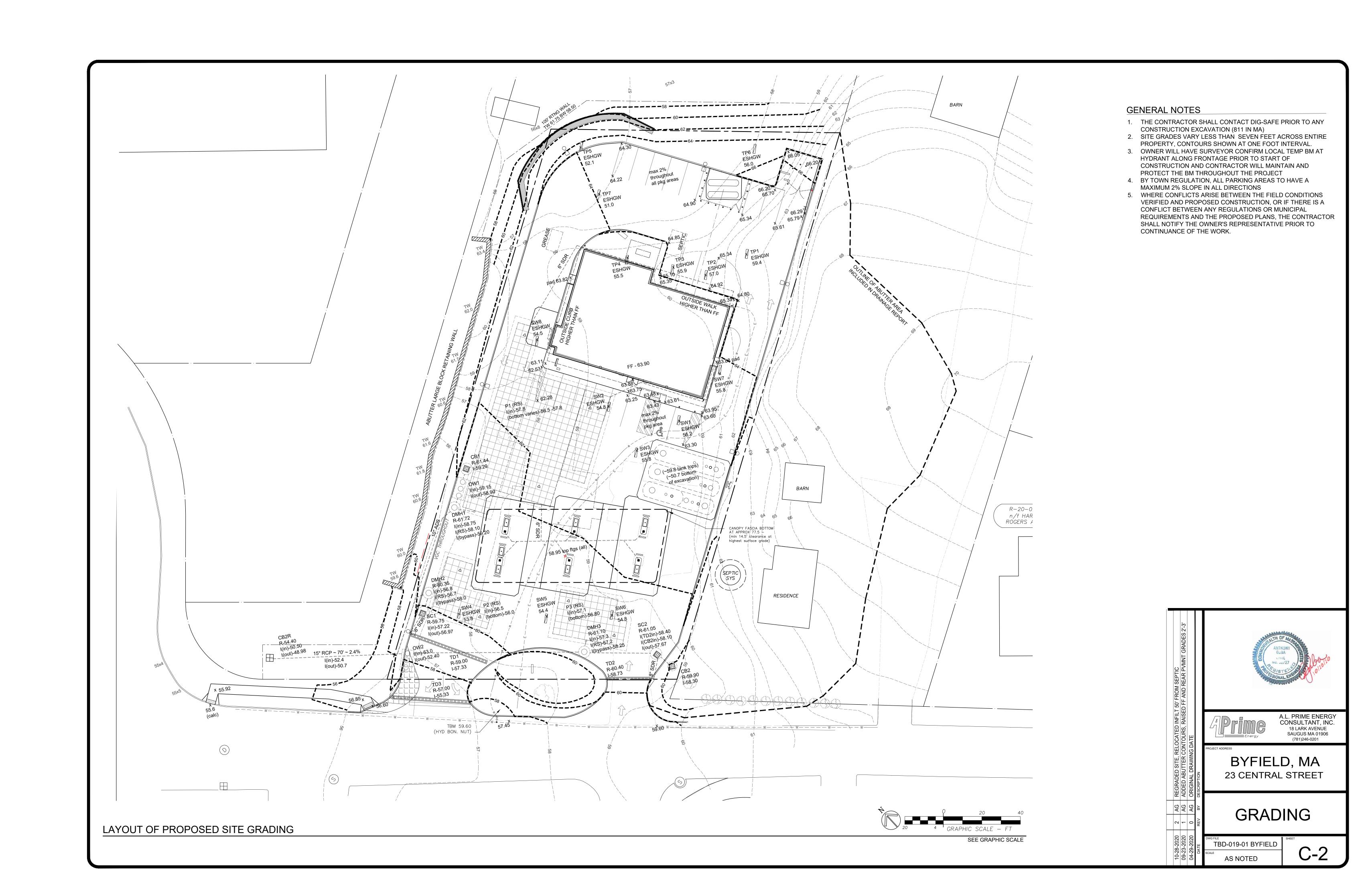
APPROX SCALE

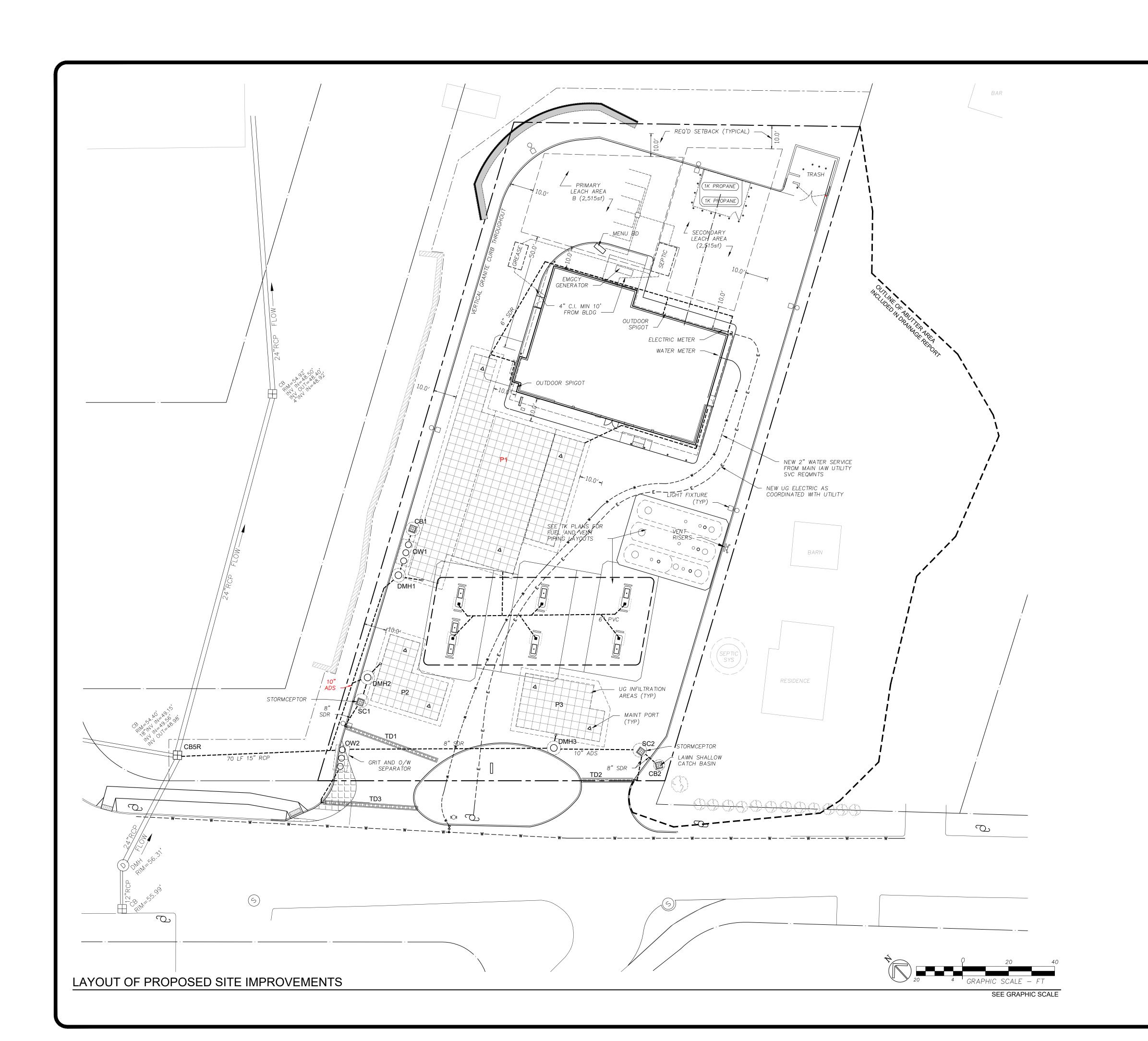












- 1. SITE WILL BE SERVED BY ON SITE SEPTIC. PERC TESTING AND PRELIMINARY DESIGN HAS BEEN COMPLETED TO CONFIRM THAT THE SITE LAYOUT WILL PROVIDE NECESSARY AREA, GRADING AND DEPTH FOR THE FINAL SEPTIC DESIGN. A DETAILED SEPTIC PLAN WILL BE PREPARED FOR MUNICIPAL APPROVAL FOLLOWING APPROVAL OF THE SITE PLAN, SPECIAL PERMIT, AND OTHER REQUIRED PERMITTING.
- 2. A NEW 2" WATER SERVICE IS PROPOSED. THE CLOSURE OF THE EXISTING SERVICE AND TIE FOR THE NEW SERVICE WILL BE COMPLETED IN ACCORDANCE WITH UTILITY PROVIDER REQUIREMENTS.
- 3. A NEW OVERHEAD ELECTRIC SERVICE WILL BE ROUTED ALONG THE EAST PROPERTY LINE TO THE NEW BUILDING.
- 4. AN EMERGENCY GENERATOR IS PROPOSED TO BE INSTALLED.
- 5. PROPANE TANKS WILL BE INSTALLED FOR BUILDING HEATING, GENERATOR, AND KITCHEN APPLIANCES AS NECESSARY.
- 6. THE CONTRACTOR SHALL CONTACT DIG-SAFE PRIOR TO ANY
- CONSTRUCTION EXCAVATION (811 IN MA)

 7. WHERE CONFLICTS ARISE BETWEEN THE FIELD CONDITIONS VERIFIED AND PROPOSED CONSTRUCTION, OR IF THERE IS A CONFLICT BETWEEN ANY REGULATIONS OR MUNICIPAL REQUIREMENTS AND THE

PROPOSED PLANS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S

- REPRESENTATIVE PRIOR TO CONTINUANCE OF THE WORK.

 8. PROPOSED WORK INCLUDES THE INSTALLATION OF NEW SUBSURFACE STORMWATER INFILTRATION SYSTEMS FOR THE
- BUILDING AND CANOPY ROOF DRAINS AS WELL AS THE MAJORITY OF THE NEW PAVEMENT AREA.

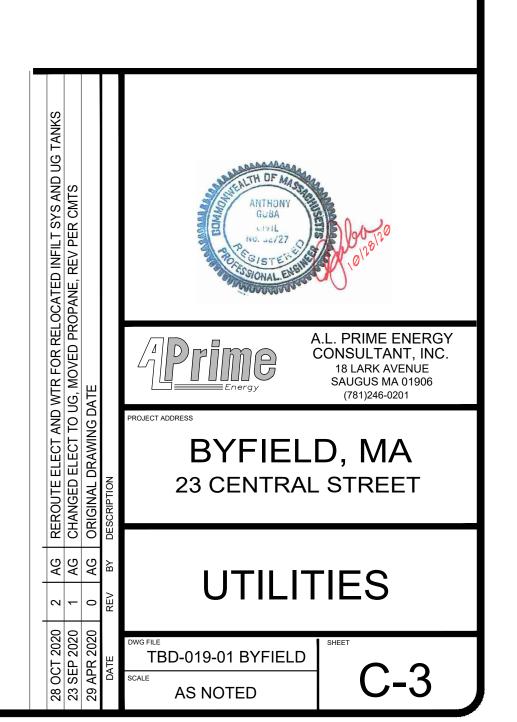
9. IT IS INTENDED TO LEAVE UNCHANGED THE EXISTING FIRE HYDRANT

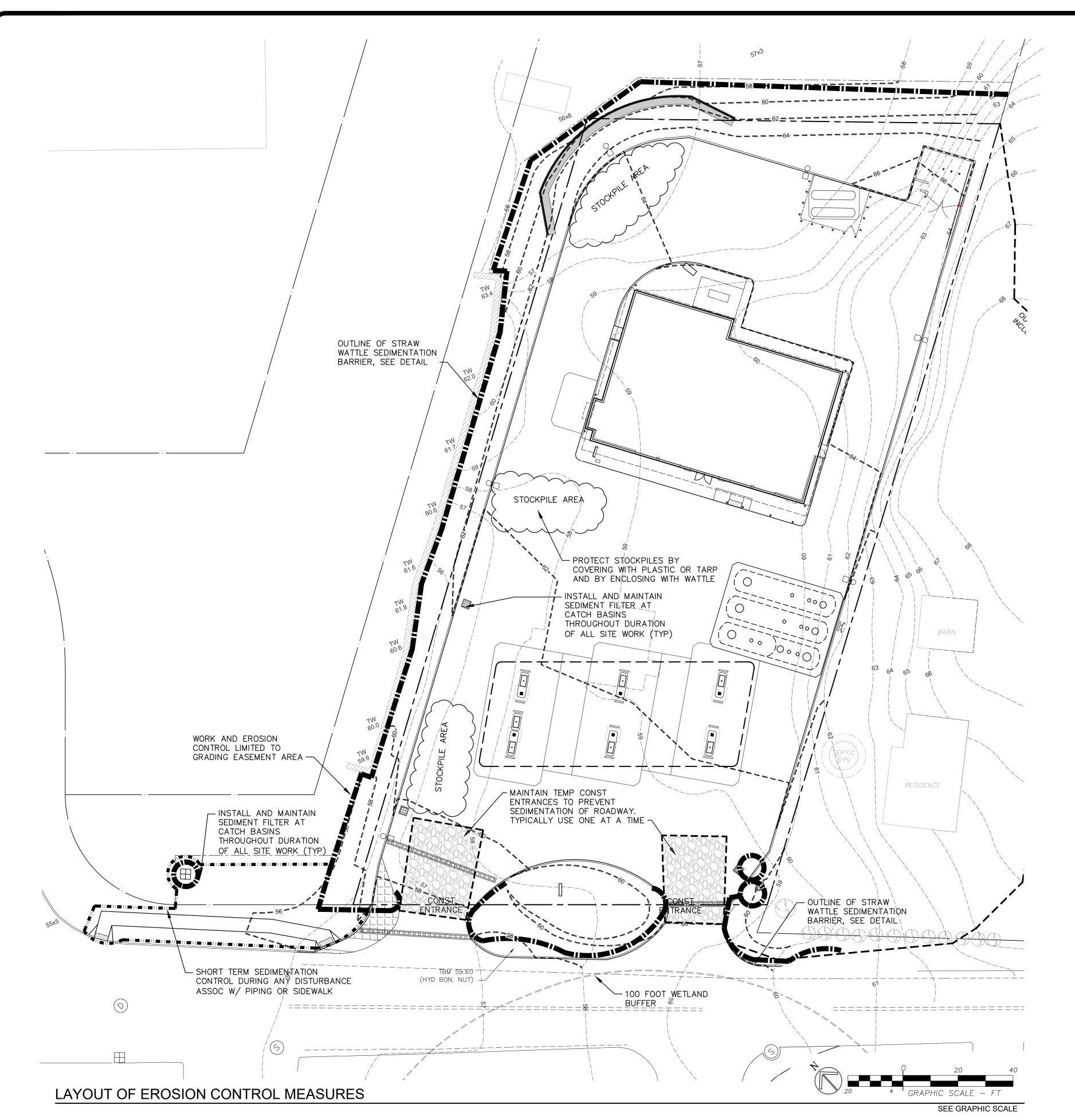
- AT APPROXIMATELY THE MIDDLE OF THE PROPERTY FRONTAGE.

 10. A.L. PRIME OR ITS INSTALLATION CONTRACTOR WILL OBTAIN UTILITY APPROVALS AND PAY WATER CONNECTION FEES AS APPLICABLE
- PRIOR TO ANY WATER UTILITY WORK.
- 11. SEE THE TANK AND PIPING PLANS FOR LAYOUT OF MOTOR FUEL AND VENT PIPING.

ANTICIPATED WATER AND SEWER RQMNTS

- 1. ANTICIPATED WATER AND SEWER FLOWS OF 1,500 GALLONS PER DAY BASED ON MA TITLE V AND SIMILAR STATION EXPERIENCE:
- 1.1. RESTAURANT (MIN) 1000 GPD
- 1.2. RETAIL STORE (MIN) 200 GPD1.3. MOTOR FUEL (MIN) 300 GPD
- 1.3. MOTOR FUEL (MIN) 300 GPD





EROSION CONTROL AND SOIL STABILIZATION

SEE DETAIL SHEETS FOR ADDITIONAL DETAILS

TEMPORARY STABILIZATION

- ALL DISTURBED SLOPES SHALL BE STABILIZED WITH TEMPORARY TREATMENT SUCH AS EROSION CONTROL BLANKETS OR HYDRO SEEDED AND PROTECTED WITHIN ONE WEEK OR BEFORE ANY EXPECTED STORM EVENT.
- EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED DAILY
 TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL,
- STONES, ROOTS, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS

 4. DESIGN SEED MIX SHALL BE COMPRISED OF THE FOLLOWING SEED RATE MIXTURE
- 4.1. PER ACRE: 20 LBS TALL FESCUE, 20 LBS CREEPING RED FESCUE, 8 LBS BIRDSFOOT
- 4.2. PER 1,000 SF: 0.45 LBS TALL FESCUE, 0.45 LBS CREEPING RED FESCUE, 0.20 LBS BIRDSFOOT TREFOIL.
- 5. TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW, FIBER MULCH, OR PROTECTIVE COVER SUCH AS BURLAP, JUTE, FIBERGLASS NETTING OR BLANKETS. HAY OR STRAW SHOULD BE APPLIED AT MAXIMUM OF 3 TONS PER ACRE.
- 6. ALL TEMPORAY PROTECTION INCLUDING SILT FENCE, HAY BALES OR STRAW WATTLES SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR GROUND COVER IS
- 7. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT.
- 8. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS AND SHALL HAVE MAX SIDE SLOPE LESS THAN 2:1.
- CONTRACTOR TO TAKE WHATEVER MEASURES APPROPRIATE DURING EACH PHASE OF WORK TO DIVERT RUNOFF AROUND DISTURBED AREAS AND TO LIMIT THE AMOUNT OF RUNOFF FLOWING INTO OR THROUGH DISTURBED AREAS.

CONSTRUCTION SEQUENCE

- 1. ESTIMATED TIME OF CONSTRUCTION FOR THIS PROJECT IS FIVE MONTHS.
- TEMPORARY CONTROL MEASURES AND ANY REQUIRED MA DEP SIGNAGE TO BE INSTALLED PRIOR TO ANY SITE WORK OR DEMO OF EXISTING IMPROVEMENTS.
- 3. INSTALL PERIMETER FENCING, SILT CONTROLS, CONSTRUCTION ENTRANCES AND
- ESTABLISH STOCKPILE AREAS PRIOR TO SITE WORK EXCAVATION.
- 4. THROUGHOUT THE COURSE OF THE WORK, MAINTAIN EROSION AND SEDIMENTATION CONTROL STRUCTURES AS NECESSARY TO KEEP ALL OPERATING AS INTENDED.
- 5. DRAINAGE SHALL BE PREVENTED FROM ENTERING SUBSURFACE INFILTRATION SYSTEM BEFORE THE SYSTEM IS COMPLETED AND BACKFILLED.
- 6. TEMPORARY HAY BALES, STRAW WATTLES, OR SILT FENCES MAY BE REMOVED AFTER FINAL SOIL STABILIZATION AND BASE PAVEMENT HAS BEEN INSTALLED AND ISSUANCE OF ANY
- REQUIRED APPROVAL FROM MUNICIPAL AUTHORITY.
 7. CATCH BASIN INLET PROTECTION MUST REMAIN UNTIL BASE PAVEMENT IS INSTALLED AND
- ALL STOCKPILES ARE REMOVED AND NO LONGER NECESSARY.
- 8. AT THE CONCLUSION OF CONSTRUCTION AND AFTER ALL FINAL STABILIZATION IS ACHIEVED, CLEAN ALL DRAINAGE STRUCTURES OF ALL DIRT, DEBRIS, OR ANY LOOSE MATERIALS.

SEDIMENTATION CONTROL AND CONSTRUCTION OPN AND MAINT PLAN

- 1. CARE SHALL BE TAKEN TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING ROADWAYS OR ANY DRAINAGE STRUCTURE.
- 2. PROTECT ALL INLETS, STOCKPILES AND UN-ESTABLISHED SOIL AREAS DURING STORMS AND
- PERIODS OF RAINFALL.

 3. INSPECT ALL SEDIMENTATION CONTROL DEVICES PROMPTLY AFTER EACH RAINFALL AND
- REPAIR OR CLEAN OUT SEDIMENTATION AS NECESSARY.

 4. INSTALL ADDITIONAL CONTROL MEASURES AS NECESSARY AS CONDITIONS WARRANT.
- 5. AT THE END OF EACH WORK DAY, COVER ALL STOCKPILES AND INSURE ALL SEDIMENTATION CONTROL DEVICES ARE IN PLACE. STOCKPILE SIDE SLOPES SHALL NOT BE GREATER THAN
- 6. SEDIMENT SHALL BE REMOVED FROM SILT WATTLE BARRIER ONCE THE VOLUME REACHES $\frac{1}{4}$ HEIGHT OF THE WATTLE.
- 7. CONSTRUCT AND MAINTAIN A TEMPORARY CONSTRUCTION ENTRANCE PRIOR TO EXISTING PAVED AREAS ARE DISTURBED AND CONSTRUCTION VEHICLES START TRACKING SEDIMENTATION INTO THE ROADWAY. CONSTRUCTION ENTRANCE(S) WILL BE MONITORED AND CLEANED OF SEDIMENT AS NEEDED ON A DAILY BASIS. SWEEP THE CONSTRUCTION SITE AND ENTRANCES AS NECESSARY TO PREVENT TRACKING OF SEDIMENTATION INTO
- THE ROADWAY.

 8. TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE DISTURBED, STOCKPILED IN APPROVED AREAS AND STABILIZED WITH TEMP VEGETATIVE COVER IF TO BE LEFT STOCKPILED FOR
- MORE THAN 30 CALENDAR DAYS.

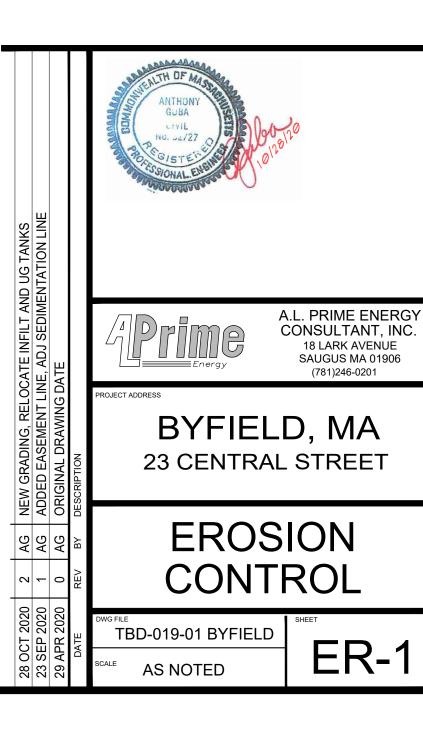
 9. MAINTAIN PROPER DUST CONTROL THROUGHOUT THE PROJECT.
- 10. INSTALL A CONTINUOUS LINE OF SEDIMENTATION CONTROL ALONG THE PERIMETER OF ALL CONSTRUCTION ACTIVITY PER THE EROSION CONTROL SITE PLAN.
- 11. PROTECT THE INLET OF ALL CATCH BASINS SUBJECT TO POSSIBLE RUNOFF FROM THE SITE WITH SEDIMENT FILTER AND INSPECT THE FILTER AFTER ALL RAINFALLS AND ANY RUNOFF THAT REACHES THE CATCH BASIN.
- 12. INSURE PROPER HANDLING OF CONCRETE WASH OR OTHER CONSTRUCTION ACTIVITY TO PREVENT ANY SUCH WASH FROM REACHING THE CATCH BASIN OR ROADWAY.

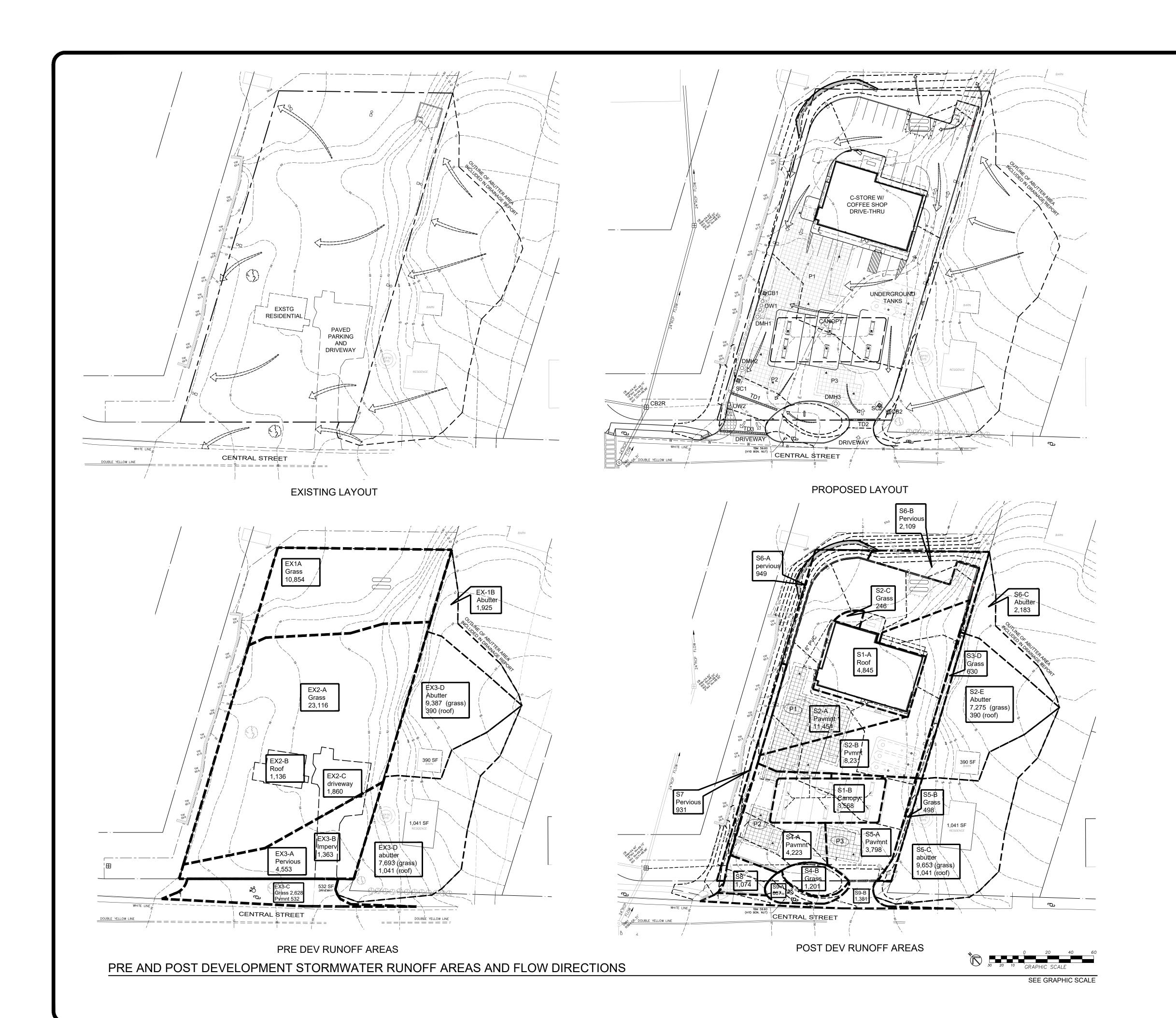
POST CONSTRUCTION

- 1. UPON COMPLETION OF CONSTRUCTION, STORM WATER CONTROLS ARE TO BE MAINTAINED IN ACCORDANCE WITH FOLLOWING PERMANENT PROCEDURES:
- 1.1. CATCH BASINS SHALL BE INSPECTED AT LEAST ANNUALLY AND CLEANED AS
- NECESSARY

 1.2. MAINTAIN A WRITTEN EMERGENCY RESPONSE PROCEDURE AND TRAIN ALL SITE
- EMPLOYEES HOW TO RESPOND IN CASE OF ANY SPILL

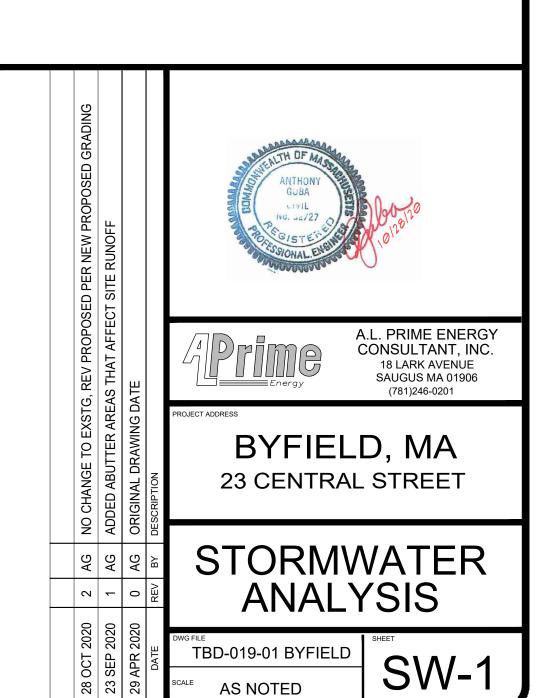
 1.3. PAVED AREAS SHOULD BE SWEPT AT LEAST ANNUALLY IN SPRING TO REMOVE
- SEDIMENT ACCUMULATED THROUGH THE WINTER
- 2. LANDSCAPE AREAS ARE TO BE MAINTAINED AND ANY BARE SOIL IN GRASSED AREAS SHALL BE RE-SEEDED.
- SEE WRITTEN OPERATION AND MAINTENANCE PLAN SUBMITTED AS PART OF SITE PLAN APPLICATION.

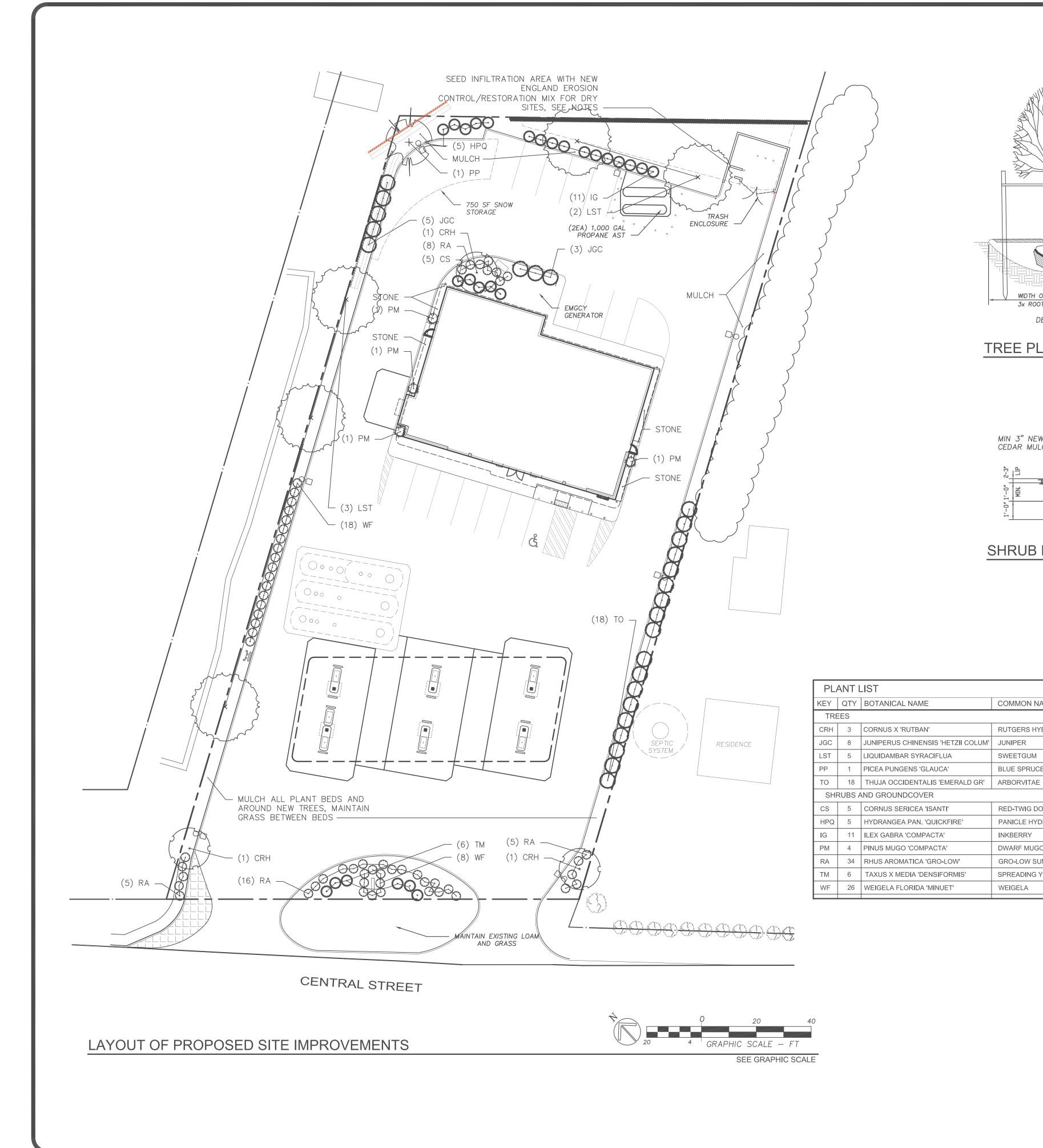


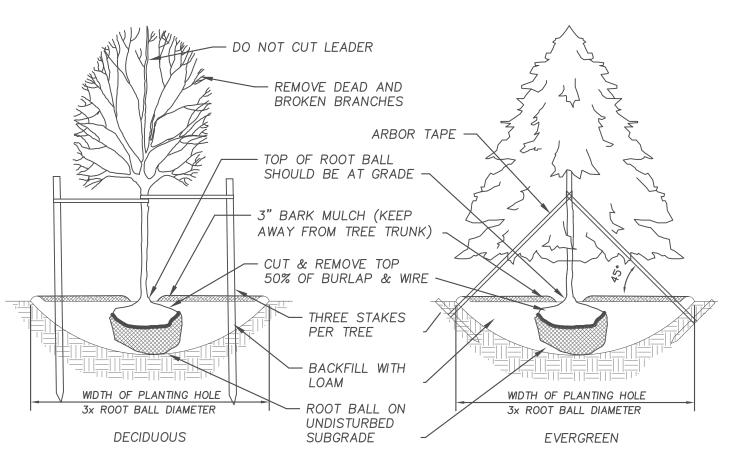


- THE GENERAL PURPOSE OF THIS WORK IS TO REMOVE THE EXISTING RESIDENTIAL USE AND IMPROVEMENTS AND CONSTRUCT A NEW GAS STATION AND CONVENIENCE STORE WITH DRIVE-THRU
- 2. STORMWATER IMPACTS OF THE PROPOSED DEVELOPMENT HAVE BEEN MODELED IN HYDROCAD AND RUNOFF MITIGATION HAS BEEN DESIGNED AS INFLUENCED BY THAT MODELING TO REDUCE POST DEVELOPMENT RUNOFF BELOW PRE-DEVELOPMENT RATES AND VOLUMES. PLEASE REFER TO THE STORMWATER MANAGEMENT PLAN.
- 3. THE LAYOUTS ON THIS SHEET ARE INCLUDED IN THE STORMWATER MANAGEMENT PLAN AND USED IN THE HYDROCAD MODEL

<u>Total Ru</u>	noff to St	Total Runoff to Offsite		
<u>Rate</u>	<u>Volume</u>	<u>Rate</u>	<u>Volume</u>	
0.16	0.011	0.66	0.045	
0.15	0.007	0.27	0.015	
-0.01	-0.004	-0.39	-0.03 -67 %	
-6%	-36%	-59%		
0.77	0.038	2.97	0.146	
0.28	0.013	0.63	0.033	
-0.49	-0.025	-2.34		
-64%	-66%	-79%	-77%	
2.88	0.134	10.91	0.508	
0.59	0.03	3.56	0.373	
-2.29	-0.104	-7.35	-0.135	
-80%	-78%	-67%	-27%	
	Rate 0.16 0.15 -0.01 -6% 0.77 0.28 -0.49 -64% 2.88 0.59 -2.29	0.16 0.011 0.15 0.007 -0.01 -0.004 -6% -36% 0.77 0.038 0.28 0.013 -0.49 -0.025 -64% -66% 2.88 0.134 0.59 0.03 -2.29 -0.104	Rate Volume Rate 0.16 0.011 0.66 0.15 0.007 0.27 -0.01 -0.004 -0.39 -6% -36% -59% 0.77 0.038 2.97 0.28 0.013 0.63 -0.49 -0.025 -2.34 -64% -66% -79% 2.88 0.134 10.91 0.59 0.03 3.56 -2.29 -0.104 -7.35	

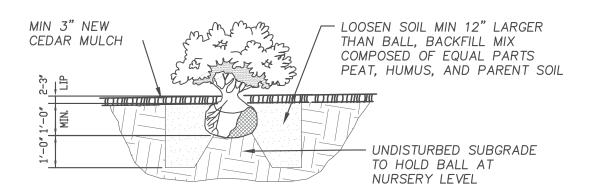






TREE PLANTING

SEE GRAPHIC SCALE



COMMENTS

SIZE

5-6' HT.

2.5" CAL.

6-8' HT.

6-8' HT.

5 GAL

5 GAL

5 GAL

3 GAL

3 GAL

5 GAL

3 GAL

SHRUB PLANTING

COMMON NAME

SWEETGUM

INKBERRY

BLUE SPRUCE

RED-TWIG DOGWOOD

PANICLE HYDRANGEA

DWARF MUGO PINE

GRO-LOW SUMAC

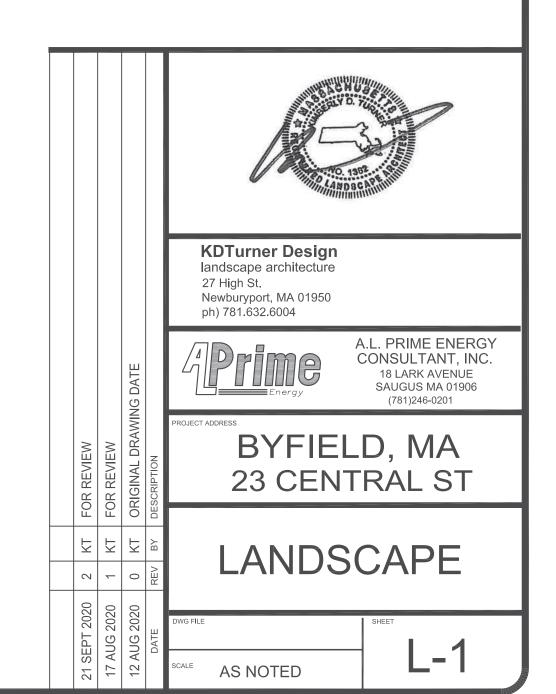
SPREADING YEW

RUTGERS HYBRD DOGWOOD 2" CAL.

SEE GRAPHIC SCALE

GENERAL NOTES

- 1. THE LOCATION OF UG UTILITIES MUST BE VERIFIED IN THE FIELD PRIOR TO ANY EXCAVATION. VERIFY EXISTING AND PROPOSED UTILITY LOCATIONS IN THE FIELD AND VERIFY WITH PROJECT MANAGER PRIOR TO ANY EXCAVATION.
- 2. ALL WORK TO BE DONE IN ACCORDANCE WITH ALL CONDITIONS OF APPROVAL AND ANY SITE PLAN REQUIREMENTS OF THE TOWN OF NEWBURY.
- 3. VERIFY QUANTITIES SHOWN ON PLANT LIST. QUANTITIES SHOWN ON LAYOUT PLAN GOVERN OVER THE PLANT LIST IN THE CASE OF ANY DISCREPANCY.
- 4. ANY PLANT SUBSTITUTION MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.
- 5. SEED INFILTRATION AREA WITH NEW ENGLAND EROSION CONTROL/RESTORATION SEED MIX FOR DRY SITES AT A RATE OF 1 LB/1250 SF (NEW ENGLAND WETLAND PLANTS, INC.). INFILTRATION AREAS TO BE SEEDED AND STABILIZED AS SOON AS PRACTICAL AFTER GRADING OF THE
- 9. ALL TREES TO BE STAKED WITH THREE HARDWOOD STAKES, SEE PLANTING DETAILS.
- 10. ALL NEW LANDSCAPE AREAS WITHIN 3 FEET OF NEW PLANTINGS TO HAVE MIN 12 INCHES TOPSOIL NOT INCLUDING THAT SOIL WITH THE TREE OR SHRUB PIT FOR FULL DEPTH OF ROOT BALL.
- 11. ALL MULCH AREAS TO BE A MIN OF 3 INCHES DEPTH OF SHREDDED HARDWOOD BARK.
- 12. AREAS AGAINST THE BUILDING WILL BE "MULCHED" WITH NON-FLAMMABLE LANDSCAPE STONE, COLOR AND TYPE TO BE APPROVED BY THE OWNER REPRESENTATIVE PRIOR TO PLACEMENT.
- 13. DURING PLANTING, APPLY SOIL ADDITIVES AND SLOW RELEASE FERTILIZER AND WATER THOROUGHLY AT COMPLETION.



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LUMINAIRE LOCATION SUMMARY			LUMINAIRE LOCATION SUMMARY		
LUM NO.	LABEL	MTG. HT.	LUM NO.	LABEL	MTG. H
1	C3	15	53	L4	10
2	C3	15	54	L4	10
3	C3	15	55	L4	10
4	C3	15	56	L4	10
5	C3	15	57	L4	10
6	C3	15	58	L4	10
7	C3	15	59	L4	10
8	C3	15	60	L4	10
9	C3	15	61	L4	10
10	C3	15	62	L4	10
11	C3	15	63	L4	10
12	C3	15	64	L4	10
13	C3	15	65	L4	10
14	C3	15	66	L4	10
15	C3	15	67	L4	10
16	C3	15	68	L4	10
			4		
17	C3	15	69	L4	10
18	C3	15	70	L4	10
19	C3	15	71	L4	10
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21	C3	15	73	L4	10
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24	C3	15	76	L4	10
25	C3	15	77	L4	10
26	C3	15	78	L4	10
27	C3	15	79	L4	10
28	C3	15	80	L4	10
29	C3	15	81	L4	10
30	C3	15	82	L4	10
31	L3	10	83	L4	10
32	L3	10	84	L4	10
33	L3	10	85	L4	10
34	L3	10	86	L4	10
35	L3	10	87	L4	10
36	L3	10	88	L4	10
37	L3	10	89	L4	10
38	L3	10	90	L4	10
39	L4	10	91	L4	10
40	L4	10	92	L4	10
			-		
41	L4	10	93	L4	10
42	L4	10	94	L4	10
43	L4	10	95	L4	10
44	L4	10	96	L4	10
45	L4	10	97	L4	10
46	L4	10	98	L4	10
47	L4	10	99	Q3	17
48	L4	10	100	Q3	17
49	L4	10	101	Q4	17
50	L4	10	102	Q4	17
51	L4	10	103	Q4	17
52	L4	10	104	Q4	17
			105	 	4=

NOTE:
AREA LIGHTS ON NEW15 FT. POLES MOUNTED ON 2 FT. CONCRETE BASES

9.7 3.0 1.1 5.3 5.2 5.1 5.1 5.0 5.0

9.5 2.5 0.3 0.2 0.1 0.1 0.0 0.0

9.1 2.3 | 10.8 10.3 10.2 10.1 10.1 10.0 10.0

8.3 2.2 10 0.4 0.2 0.1 0.1 0.0 0.0

 $7.2 \parallel 1 \mid 9 \quad 0.8 \quad 0.4 \quad 0.2 \quad 0.1 \quad 0.1 \quad 0.0$

4.6 | 1 | 4 | 0.7 | 0.4 | 0.2 | 0.1 | 0.1 | 0.0

 $\begin{bmatrix} 2.1 & 0.7 & 0.2 & 0.1 & 0.1 & 0.0 & 0.0 & 0.0 \end{bmatrix}$

9.6 7.7 5.3 2.6 15 0.8 0.3 0.2 0.1 0.1 0.0

8.4 3.7

44 159 16.2 517.3 52 17.450 1 4 7 5 4 17.4 12 17.0 10 13.1 7.1 2.8 19 0.4 0.2 0.1 0.1 0.1 0.0

 $\overset{+}{2}.8$ $\overset{-}{6}.3$ $\overset{+}{8}.1$ $\overset{+}{7}.8$ $\overset{+}{5}.6$ $\overset{+}{3}.9$ $\overset{+}{3}.0$ $\overset{+}{2}.6$ $\overset{+}{2}.3$ $\overset{+}{2}.3$ $\overset{+}{2}.3$ $\overset{+}{2}.6$ $\overset{+}{3}.2$ $\overset{+}{2}$ $\overset{+}{2}$ $\overset{+}{0}$ $\overset{+}{0}$

0.5 0.6 0.8 1.0 1.6

2.3 2.7 3.6

FOOTCANDLE LEVELS CALCULATED AT GRADE USING INITIAL LUMEN VALUES								
LABEL	AVG	MAX	MIN	AVG/MIN	MAX/MIN			
CANOPY	50.71	81	21	2.41	3.86			
PAVED	3.59	13.6	0.8	4.49	17.00			
UNDEFINED	0.49	17.5	0.0	N.A.	N.A.			

LUMINAIRE SCHEDULE										
SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	LLF	BUG RATING	WATTS/LUMINAIRE	TOTAL WATTS	MANUFACTURER	DESCRIPTION
	30	C3	SINGLE	8924	1.030	B3-U0-G1	92	2760	CREE, INC.	CAN-304-SL-XX-04-E-UL-XX-700-57K
=======================================	8	L3	3FT LINEAR	148	1.000	B0-U1-G0	2.9	139.2	MAXLITE INC.	LB3650
	60	L4	4FT LIGHTBAR	148	1.000	B0-U1-G0	2.9	1392	MAXLITE INC.	LB4850
-8	2	Q3	SINGLE	5551	1.030	B1-U0-G1	53	106	Cree Inc	OSQ-A-NM-3ME-Z-57K-UL-XX + OSQ-BLSMF
	5	Q4	SINGLE	5402	1.030	B1-U0-G1	53	265	Cree Inc	OSQ-A-NM-4ME-Z-57K-UL-XX + OSQ-BLSMF

REV. BY DATE DESCRIPTION R1 LMP 09/01/2020 REVISED PER UPDATED SITE PLAN AND COMMENTS

0.0 0.0 0.0 0.1 0.1 0.2 0.8 2 3.0 1.8 1.2

0.0 0.1 0.1 0.2 0.3 **□**

0.0 0.0 0.0 0.0 0.1 0.1

 $\stackrel{+}{0}.0$ $\stackrel{+}{0}.0$ $\stackrel{+}{0}.0$ $\stackrel{+}{0}.1$ $\stackrel{+}{0}.1$ $\stackrel{+}{0}.2$ $\stackrel{+}{0}.9$

 $\dot{0}.0$ $\dot{0}.0$ $\dot{0}.1$ $\dot{0}.1$ $\dot{0}.1$ $\dot{0}.2$ $\dot{0}.6$

 $\dot{0}.0$ $\dot{0}.0$ $\dot{0}.1$ $\dot{0}.1$ $\dot{0}.2$ $\dot{0}.3$ $\dot{0}.6$

 $\dot{0}.0$ $\dot{0}.1$ $\dot{0}.1$ $\dot{0}.1$ $\dot{0}.2$ $\dot{0}.4$ \setminus $\dot{0}.7$

 $\dot{0}.0$ $\dot{0}.1$ $\dot{0}.1$ $\dot{0}.1$ $\dot{0}.3$ $\dot{0}.5$

 $\dot{0}.0$ $\dot{0}.0$ $\dot{0}.1$ $\dot{0}.1$ $\dot{0}.2$ $\dot{0}.4$ $\dot{0}.9$

 $\dot{0}.0$ $\dot{0}.0$ $\dot{0}.1$ $\dot{0}.1$ $\dot{0}.2$ $\dot{0}.3$ $\dot{0}.7$

 $\dot{0}.0$ $\dot{0}.0$ $\dot{0}.1$ $\dot{0}.1$ $\dot{0}.2$ $\dot{0}.3$ $\dot{0}.7$

 $\dot{0}.0$ $\dot{0}.0$ $\dot{0}.0$ $\dot{0}.1$ $\dot{0}.1$ $\dot{0}.2$ $\dot{0}.7$

 0.0
 0.0
 0.0
 0.1
 0.1
 0.2
 1.0

0.0 0.0 0.0 0.0 0.0 0.1 0.3 1/0

 $\overset{1}{0}.0$ $\overset{1}{0}.0$ $\overset{1}{0}.0$ $\overset{1}{0}.0$ $\overset{1}{0}.0$ $\overset{1}{0}.0$

0.0 0.0 0.1 0.1 0.2 0.5 1.0 2 3 11.0

0.0 0.0 0.0 0.0 0.0 0.1 0.2 0.2 0.2 0.3 0.3 0.3

36 44 39 43 44 54 51 59 63 23 4 77 563 39 41 49 56 154 61 63 6 56 63 69 22 78 67 3 8 53 51 58 63 24 77 563

47 148 50 62 69 73 81 74 C3 62 58 54 56 583 60 43 2735

2 2.9 2.5 1.7 1.4 1.1 0.9 0.9 0.8 1.0 1.7 2.5

0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.5 0.5 0.2 0.5

[†]2.9 [†]2.0 [†]1.4 [†]1.1 // [†]0.7

 $1.60 \circ 0.3 \circ 3.2 \quad 4.4 \quad 6.8 \quad 10.3 \quad 12.8$

\[†]3.1 \cap \cap 6.7 \cap 10.5

[†]11.8

¹2.6 ¹3.6

0 5 1.4 5.5

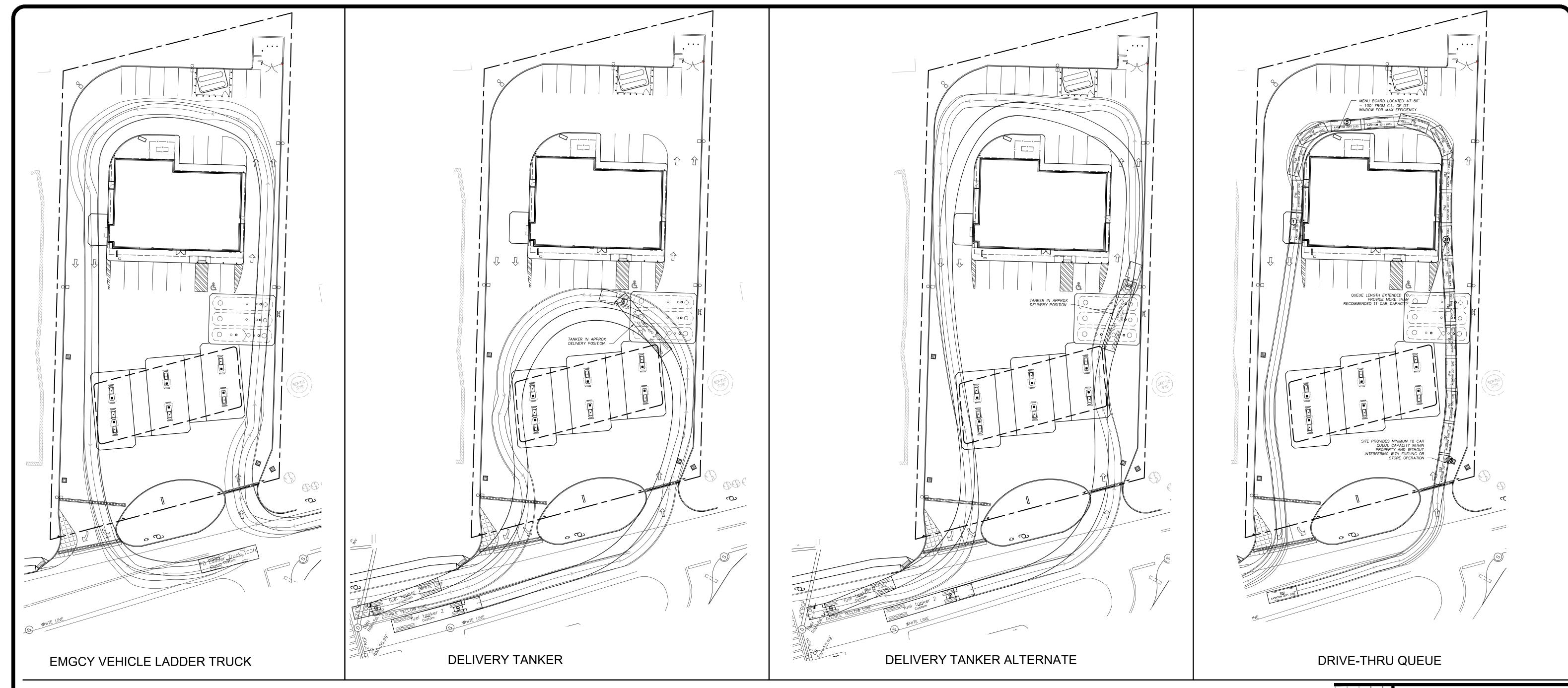
05 1.1 3.8

PERSONS USING THIS PROGRAM ARE ADVISED THAT THIS PROGRAM MAY CONTAIN ERRORS WHICH RED LEONARD ASSOCIATES, INC. OR ITS SOFTWARE PROVIDER HAVE NOT OBSERVED. IN ADDITION, THE USE OF THIS PROGRAM TO AID IN LAYOUT OF LIGHTING AND ESTIMATING MATERIAL QUANTITIES IS NOT INTENDED TO REMOVE THE RESPONSIBILITY OF THE USER TO VERIFY THE COMPLETENESS OF ANY BILL OF MATERIAL AND THAT THE LAYOUT OR USE OF LIUMINAIRES IS IN FULL ACCORDANCE WITH ALL LOCAL, STATE, OR FEDERAL STATUTES, REGULATIONS OR OTHER REQUIREMENTS, OR THE REQUIREMENTS OF ANY INSURANCE GROUP, ORGANIZATION OR CARRIER REGARDING LUMINAIRES AND THEIR APPLICATION.

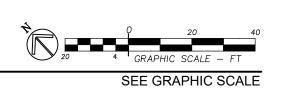
SCALE: LAYOUT BY: 1" = 20' LMP DWG SIZE: DATE: D 12/04/19

AL PRIME BYFIELD, MA RL-6493-S1-R1

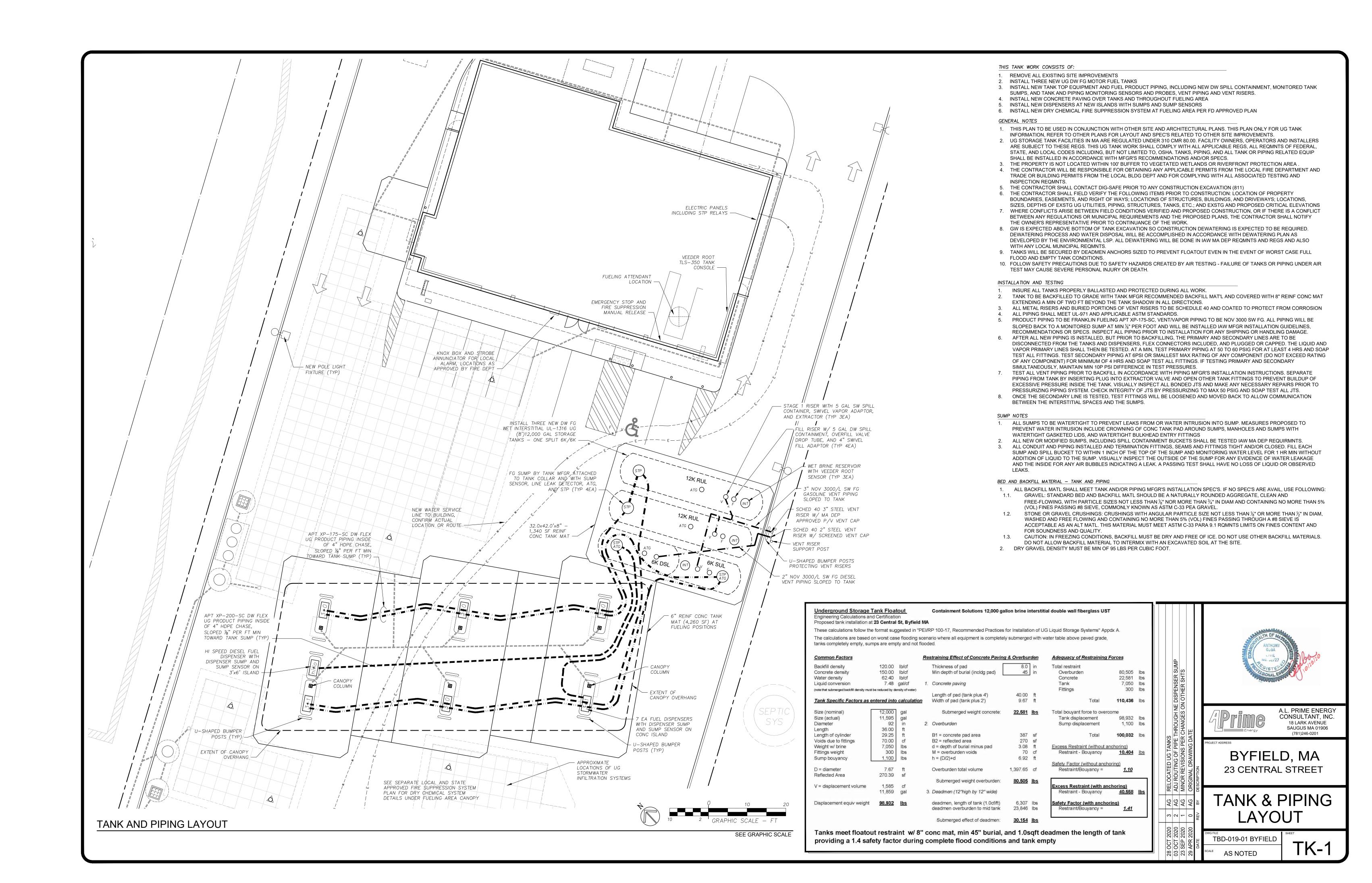


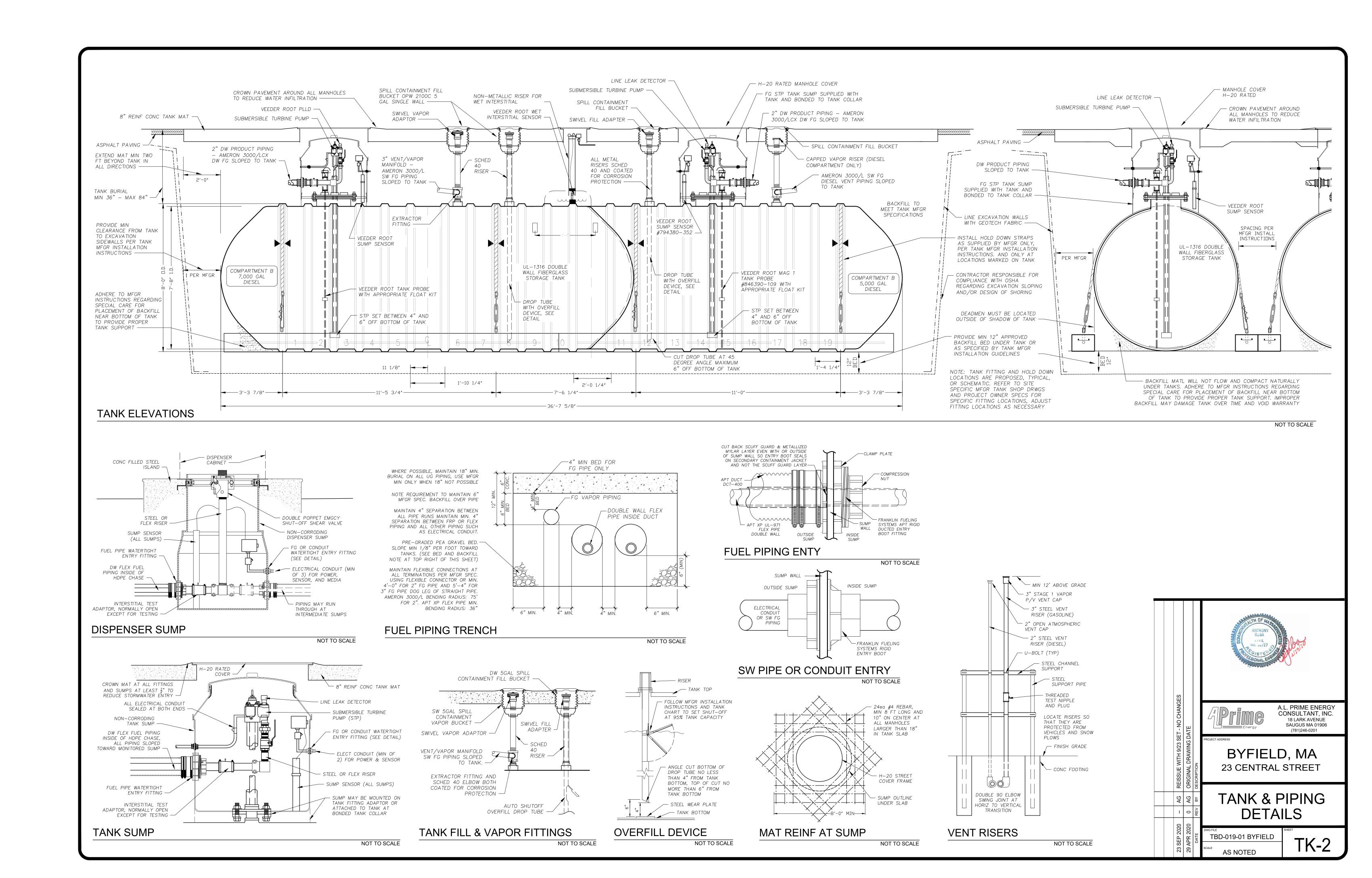


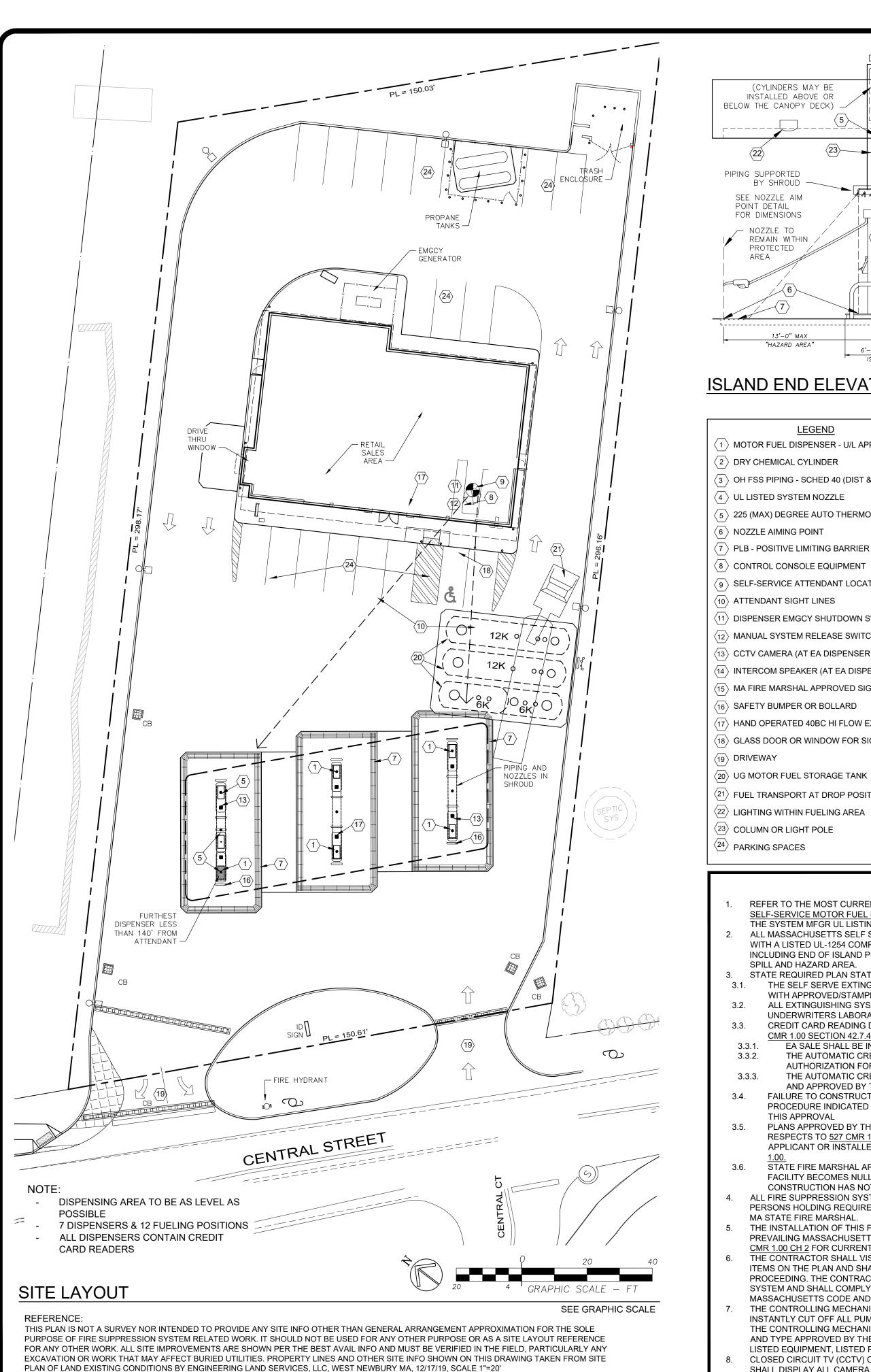
AUTOTURN SWEPT PATH ANALYSIS

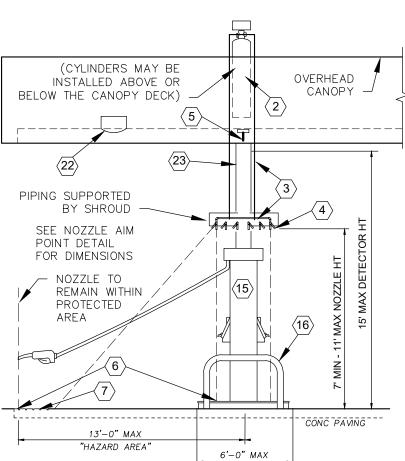












INSTALLED ABOVE OR BELOW THE CANOPY DECK) OVERHEAD CANOPY - PIPING SUPPORTED BY SHROUD SEE NOZZLE AIM POINT DETAIL FOR DIMENSIONS

ISLAND END ELEVATION

<u>LEGEND</u> $race{1}$ MOTOR FUEL DISPENSER - U/L APPROVED

(3) OH FSS PIPING - SCHED 40 (DIST & SUPPLY)

7 PLB - POSITIVE LIMITING BARRIER GROOVES

(5) 225 (MAX) DEGREE AUTO THERMOSTAT

(8) CONTROL CONSOLE EQUIPMENT

9 SELF-SERVICE ATTENDANT LOCATION

11) DISPENSER EMGCY SHUTDOWN SWITCH

(14) INTERCOM SPEAKER (AT EA DISPENSER) $\langle 15
angle$ MA FIRE MARSHAL APPROVED SIGNAGE

17 HAND OPERATED 40BC HI FLOW EXTINGUISHER

(18) GLASS DOOR OR WINDOW FOR SIGHT LINE

 $\langle 21 \rangle$ FUEL TRANSPORT AT DROP POSITION

 $\langle 22 \rangle$ LIGHTING WITHIN FUELING AREA

(23) COLUMN OR LIGHT POLE

24 PARKING SPACES

12 MANUAL SYSTEM RELEASE SWITCH

13 CCTV CAMERA (AT EA DISPENSER)

(16) SAFETY BUMPER OR BOLLARD

(19) DRIVEWAY

 \langle 2 \rangle DRY CHEMICAL CYLINDER

4 UL LISTED SYSTEM NOZZLE

6 NOZZLE AIMING POINT

 $\langle 10 \rangle$ ATTENDANT SIGHT LINES

ISLAND SIDE ELEVATION - WEST ISLAND

NARRATIVE:

SEQUENCE.

SYSTEM INFORMATION

SYSTEM MANUFACTURER.

NOT TO SCALE

(CYLINDERS MAY BE

(CYLINDERS MAY BE

INSTALLED ABOVE OR BELOW THE CANOPY DECK)

OVERHEAD

CANOPY

- PIPING SUPPORTED BY SHROUD

NOT TO SCALE

PROTECTED AREA - (3 EA) SYSTEMS EACH PROTECTING 24' x 48.5'

ATTENDANT 1 SYSTEM MFGRD BY PYRO CHEM. INC.

MODEL ATD-35/75 -- MEETS UL-1254

INSTALLER MA CERT OF COMPETENCY NUMBER INSTALLER MA CERT OF REGISTRATION NUMBER -

SYSTEM INSTALLER - TO BE DETERMINED

NUMBER OF 75# CYLINDERS - 3ea x 4 per sys = TOTAL OF 12ea 75# CYLINDERS NUMBER OF 35# CYLINDERS - 3ea x 1 per sys = TOTAL OF 3ea 35# CYLINDERS NUMBER OF FIRE SUPP NOZZLES - 8ea x 12(75#) + 4ea x 3(35#) = 108ea TOTAL NOZZLES NUMBER OF HI TEMP HEAT DETECTORS - 3ea x 3 per sys = 9ea TOTAL HEAT DETECTORS

THE PURPOSE OF THIS WORK IS TO INSTALL A DRY CHEMICAL FIRE SUPPRESSION SYSTEM MEETING UL-1254 AT THIS NEW-TO-INDUSTRY SELF-SERVICE RETAIL MOTOR FUEL STATION. IN

ADDITION TO THE FUELING ISLANDS, THE ATTENDANT MAY MONITOR A CONVENIENCE STORE

WITH APPROX 1,600 SF OF RETAIL AREA. PROPOSED TO BE OPERATED BY OTHERS THAN THE

MOTOR FUEL SELF SERVICE ATTENDANT IS A COFFEE MENU DRIVE-THRU FOOD OPERATION

THE SYSTEM WILL PROVIDE BOTH AUTOMATIC AND MANUAL ACTIVATION SWITCHES. THERE

MANUFACTURER DESIGN MANUAL FOR TECHNICAL SPECIFICATIONS AND GENERAL SYSTEM

NEW TO INDUSTRY

SELF SERVICE FACILITY

IS PER THE PRE-ENGINEERED DESIGN BY THE MANUFACTURER, PYRO-CHEM. REFER TO

WILL BE HI TEMP SENSORS INSTALLED IN THE FUEL DISPENSING AREAS. SYSTEM OPERATION

PLBs (POSITIVE LIMITING BARRIERS) WILL BE INSTALLED AS WELL AS CAMERAS AT EACH DISPENSER AND SIGNAGE TO MEET STATE FIRE MARSHAL GUIDELINE REQUIREMENTS. ALL EQUIPMENT WILL BE INSTALLED PER THE PRE-ENGINEERED DESIGN MANUAL FROM THE

THIS BOX RESERVED FOR LOCAL FIRE DEPARTMENT OFFICE USE

, CHIEF OF THE DEPARTMENT OR HIS DESIGNEE, HAVE REVIEWED THE ATTACHED INFORMATION AND HAVE ACKNOWLEDGEMENT THEREOF:

THIS BOX RESERVED FOR LOCAL FIRE DEPARTMENT US THIS BOX RESERVED FOR STATE FIRE MARSHAL OFFICE USE ONLY

THIS COPY:

A.L. PRIME ENERGY CONSULTANT, INC **18 LARK AVENUE** SAUGUS MA 01906

BYFIELD, MA 23 CENTRAL STREET

SELF SERVICE FIRE SUPPRESSION

TBD-019-01 BYFIELD

IMPACTS ATTENDANT ABILITY TO OBSERVE THE FUELING OPERATION)

ISLAND SIDE ELEVATION - MIDDLE AND EAST ISLANDS

REFER TO THE MOST CURRENT MASS DEPT OF FIRE SVCS DIV OF FIRE SAFETY "GUIDELINES FOR SELF-SERVICE MOTOR FUEL FACILITY GUIDELINES", 527 CMR 1.00 FIRE REGULATIONS, NFPA 17, AND THE SYSTEM MFGR UL LISTING AND SYSTEM MANUALS. ALL MASSACHUSETTS SELF SERVICE DISPENSING AREAS OPEN TO THE PUBLIC SHALL BE EQUIPPED

NOT TO SCALE

- WITH A LISTED UL-1254 COMPLIANT PRE-ENGINEERED DRY CHEMICAL EXTINGUISHING SYSTEM, INCLUDING END OF ISLAND PROTECTION AND DESIGNED AND INSTALLED TO PROTECT THE ENTIRE SPILL AND HAZARD AREA. STATE REQUIRED PLAN STATEMENTS:
- THE SELF SERVE EXTINGUISHING SYSTEM SHALL BE INSTALLED FROM AND IN ACCORDANCE WITH APPROVED/STAMPED PLANS FROM THE STATE FIRE MARSHAL
- ALL EXTINGUISHING SYSTEMS, DISPENSING SYSTEMS, AND CONTROL EQUIPMENT SHALL BE UNDERWRITERS LABORATORY (UL) LISTED
- 3.3. CREDIT CARD READING DEVICES ARE PROPOSED AT THIS LOCATION AND ARE SUBJECT TO 527 CMR 1.00 SECTION 42.7.4.5 (1)(K):
- EA SALE SHALL BE INDIVIDUALLY AUTHORIZED BY THE SELF-SERVICE ATTENDANT THE AUTOMATIC CREDIT CARD READING DEVICE SHALL NOT BE USED AS PHYSICAL AUTHORIZATION FOR THE DISPENSING OF MOTOR FUEL
- THE AUTOMATIC CREDIT CARD READING DEVISES ARE INCLUDED ON PLANS SUBMITTED TO 3.3.3. AND APPROVED BY THE STATE FIRE MARSHAL (SEE NOTES AND LEGEND) FAILURE TO CONSTRUCT, INSTALL, OR MAINTAIN ANY EQUIPMENT, DEVICES, SYSTEM, OR PROCEDURE INDICATED ON THE APPROVED PLANS SHALL BE CAUSE FOR THE REVOCATION OF
- PLANS APPROVED BY THE MARSHAL ARE ON THE CONDITION THAT THEY COMPLY IN ALL RESPECTS TO 527 CMR 1.00. ANY OMISSIONS OR ERRORS ON THE PLANS DO NOT RELIEVE THE APPLICANT OR INSTALLER FROM COMPLYING WITH ALL APPLICABLE REQUIREMENTS OF 527 CMR
- STATE FIRE MARSHAL APPROVAL OF PLANS TO CONSTRUCT/RENOVATE A SELF-SERVICE FACILITY BECOMES NULL AND VOID ONE YEAR FROM THE DATE OF THE APPROVAL (IF CONSTRUCTION HAS NOT STARTED).
- ALL FIRE SUPPRESSION SYSTEMS SHALL BE INSTALLED AND MAINTAINED BY COMPANIES AND PERSONS HOLDING REQUIRED CERTIFICATES OF COMPETENCY AND REGISTRATION ISSUED BY THE MA STATE FIRE MARSHAL
- THE INSTALLATION OF THIS FIRE EXTINGUISHING SYSTEM MUST BE IN ACCORDANCE WITH THE PREVAILING MASSACHUSETTS CODE REQUIREMENTS AND THE PROVISIONS OF NFPA 17 (SEE 527 CMR 1.00 CH 2 FOR CURRENT EDITION).
- THE CONTRACTOR SHALL VISIT THE SITE AND BE RESPONSIBLE FOR FIELD CONFIRMATION OF ALL ITEMS ON THE PLAN AND SHALL NOTIFY THE DESIGNER IN WRITING OF ANY DISCREPANCY BEFORE PROCEEDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE ENTIRE SYSTEM AND SHALL COMPLY WITH THE REGULATIONS SET FORTH BY THE PREVAILING MASSACHUSETTS CODE AND THE EQUIPMENT MANUFACTURER SPECIFICATIONS.
- THE CONTROLLING MECHANISM CONSOLE SHALL INCLUDE A DISCONNECT SWITCH WHICH WILL INSTANTLY CUT OFF ALL PUMPING POWER TO ALL MOTOR FUEL PUMPS AT THE SERVICE STATION. THE CONTROLLING MECHANISM CONSOLE, SWITCHES AND RELATED EQUIPMENT SHALL BE A DESIGN AND TYPE APPROVED BY THE FIRE MARSHAL AND SHALL BE UNDERWRITERS LABORATORIES (U.L.) LISTED EQUIPMENT, LISTED FOR USE WITH THE DISPENSING DEVICES.
- CLOSED CIRCUIT TV (CCTV) COVERAGE IS REQUIRED ON ALL FUELING POSITIONS. CCTV MONITORS SHALL DISPLAY ALL CAMERA ANGLES SIMULTANEOUSLY ON THE SCREEN WITH A MIN FRAME OF 5" BY 6.5" PER CAMERA. CCTV SHALL DISPLAY IMAGES IN COLOR.

9. AN INTERCOM SYSTEM IS REQD BETWEEN THE CONTROL CONSOLE AND DISPENSING ISLANDS. THE CONTROL CONSOLE WILL BE LOCATED IN DIRECT LINE OF SIGHT AND WITHIN 200 FEET OF THE MOST REMOTE DISPENSER. DISTANCES GREATER THAN 200 FT MAY BE APPROVED AT SOLE

SEE NOZZLE AIM POINT DETAIL

FOR DIMENSIONS

- DISCRETION OF THE STATE FIRE MARSHAL. ANY ISLAND USED AS FULL SERVICE WILL HAVE A SWITCH WHICH WILL ACTIVATE THE OVERHEAD FIRE EXTINGUISHING SYSTEM AND DEACTIVATE POWER TO THE SELF-SERVICE ISLAND DISPENSING PUMPS AND THE SELF-SERVICE ISLANDS.
- WARNING SIGNS SHALL BE CONSPICUOUSLY POSTED ON BOTH ENDS OF THE DISPENSER AND SHALL INCORPORATE STATE REQD LANGUAGE (SEE DETAIL 1) THE CONCRETE PAD SURROUNDING THE DISPENSING ISLAND SHALL BE INSTALLED AS LEVEL AS
- POSSIBLE. THE POSITIVE LIMITING BARRIER (GROOVES) SHALL BE INSTALLED IN THIS PAD WITH OUTER GROOVE LOCATED NO FURTHER THAN THE PROTECTED HAZARD AREA DEFINED BY THE FIRE SUPPRESSION SYSTEM DESIGN.
- 14. A MEANS TO INSTANTLY DISCONNECT THE POWER TO ALL DISPENSERS AND ACTIVATE THE
- SUPPRESSION SYSTEM SHALL BE CONSPICUOUSLY MARKED AND LOCATED AT THE CONTROL CONSOLE 225° (MAX) ELECTRIC THERMOSTAT DETECTORS SHALL BE INSTALLED ON 15 FOOT (MAX) CENTERS IN A SINGLE LINE OVER THE CENTER OF THE ISLAND FOR ISLANDS UP TO 6 FT WIDE. FOR WIDER ISLANDS 2 ROWS OF DETECTORS SHALL BE LOCATED 1 FT FROM EA CURB. IF A CANOPY IS PROVIDED DETECTORS SHALL BE LOCATED ON THE UNDERSIDE (15 FT MAX HEIGHT) OF THE CANOPY. IF THERE IS NO CANOPY, THE DETECTOR(S) SHALL BE MOUNTED TO THE UNDERSIDE OF AN 18"x18"x2" HEAT COLLECTOR, WHICH
- SHALL BE LOCATED NO HIGHER THAN THE NOZZLES.. UNRELATED BUSINESS: VENDING AREAS, CONVENIENCE FOOD MART, AUTOMOTIVE REPAIR GARAGE. AND SIMILAR BUSINESS SHALL BE OPERATED BY OTHERS.
- THE CONTROLLING MECHANISM CONSOLE MUST BE IN CONSTANT ATTENDANCE BY THE ATTENDANT WHILE MOTOR FUEL IS BEING DISPENSED AND A MEANS MUST BE PROVIDED FOR THE ATTENDANT TO OBSERVE THE FILLING OPERATION AT EA VEHICLE DURING THE TIME THAT ANY OF THE PUMPS HAVE BEEN ACTIVATED TO DISPENSE MOTOR FUEL. THE LICENSED INSTALLING CONTRACTOR SHALL INSURE THAT THE LIMITS OF THE FIRE SUPPRESSION
- SYS ARE NOT EXCEEDED. THE INSTALLING CONTRACTOR SHALL TEST FIRE THE ENTIRE SYSTEM, INCLUDING ALL CONTROLS AND SHALL CERTIFY TO THE OWNER IN WRITING OF THE SYSTEM'S SATISFACTORY OPERATIONAL PERFORMANCE AND COMPLIANCE WITH U.L. APPROVAL. AT LEAST SEMIANNUALLY, ALL DISCHARGE NOZZLES, PIPING DRY CHEMICAL CONTAINERS, HEAT
- COLLECTORS, ETC. SHALL BE INSPECTED BY APPROVED AND CERTIFIED COMPANIES WITH VALID MASSACHUSETTS ISSUED CERTIFICATE OF REGISTRATION. REPORTS OF SUCH INSPECTIONS SHALL BE SUBMITTED TO THE HEAD OF THE FIRE DEPARTMENT IN ACCORDANCE WITH NFPA STANDARDS
- FAILURE TO MAINTAIN AN EXISTING FACILITY IAW GUIDELINES UNDER WHICH APPROVED MAY REQUIRE
- THE FACILITY BE UPGRADED TO THEN CURRENT GUIDELINES. A COMPLETE RESUBMITTAL IN ACCORDANCE WITH THEN CURRENT SELF-SERVICE GUIDELINES IS
- REPLACEMENT OF THE FIRE SUPPRESSION SYSTEM CHANGE IN METHOD OF DISPENSING (I.E.- CHANGING FROM SINGLE PRODUCT TO MULTI-PRODUCT

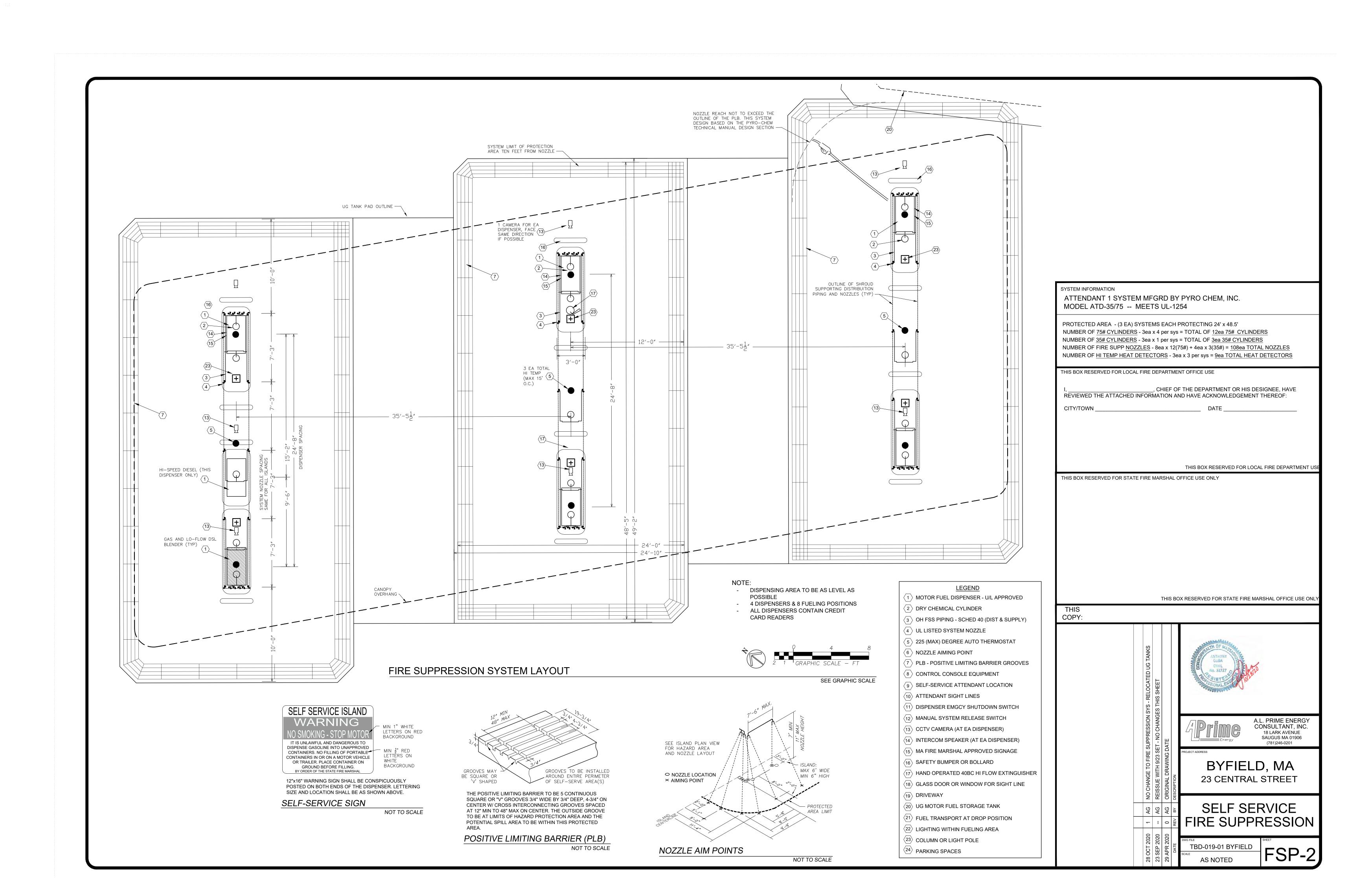
REPLACEMENT OR RECONSTRUCTION OF THE DISPENSING ISLAND 21.4. MATERIAL CHANGE IN ENVIRONMENTAL CONDITIONS OR HAZARD AREA (I.E.- CHANGE THAT

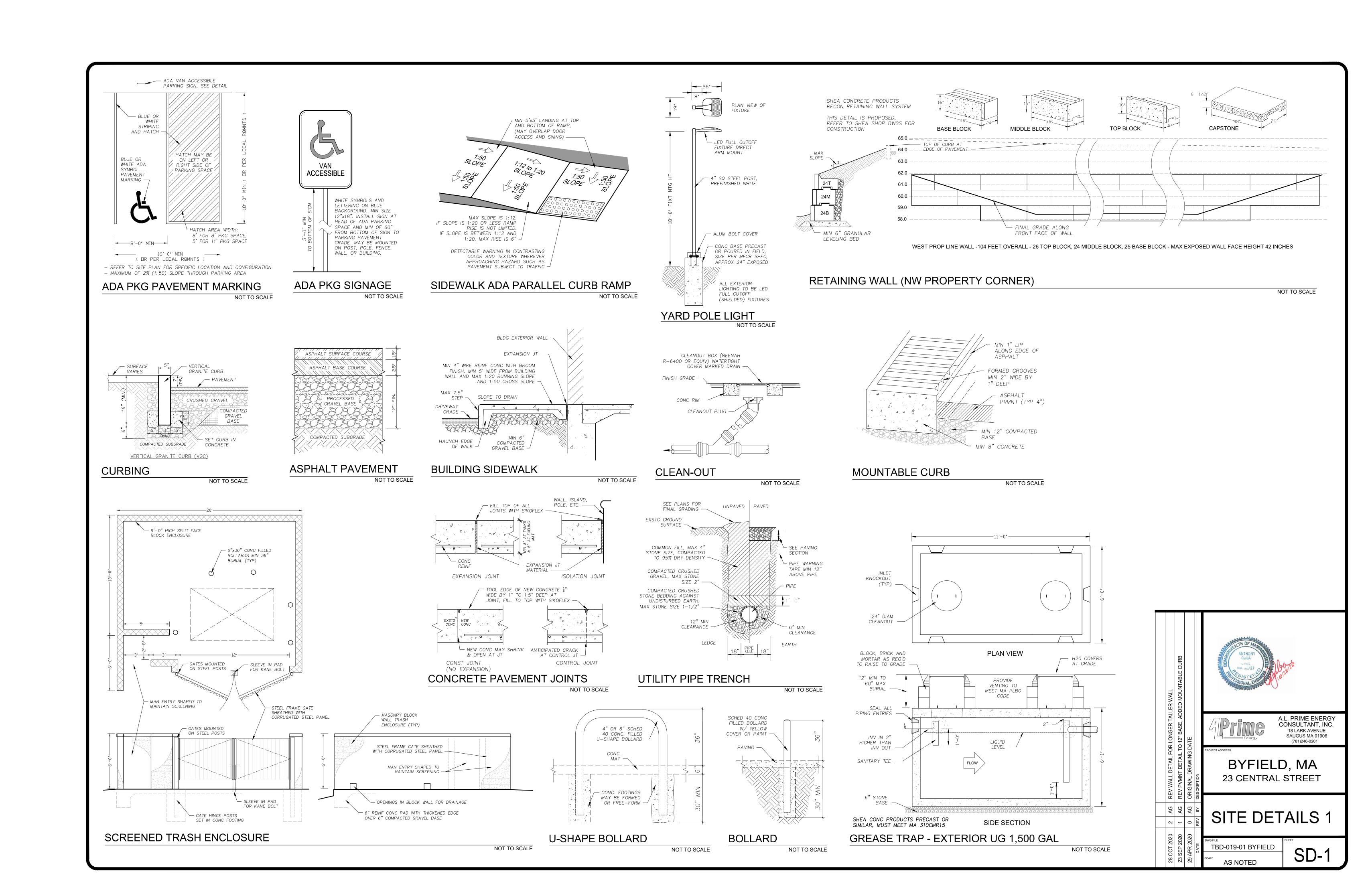
REQUIRED IN THE FOLLOWING CASES:

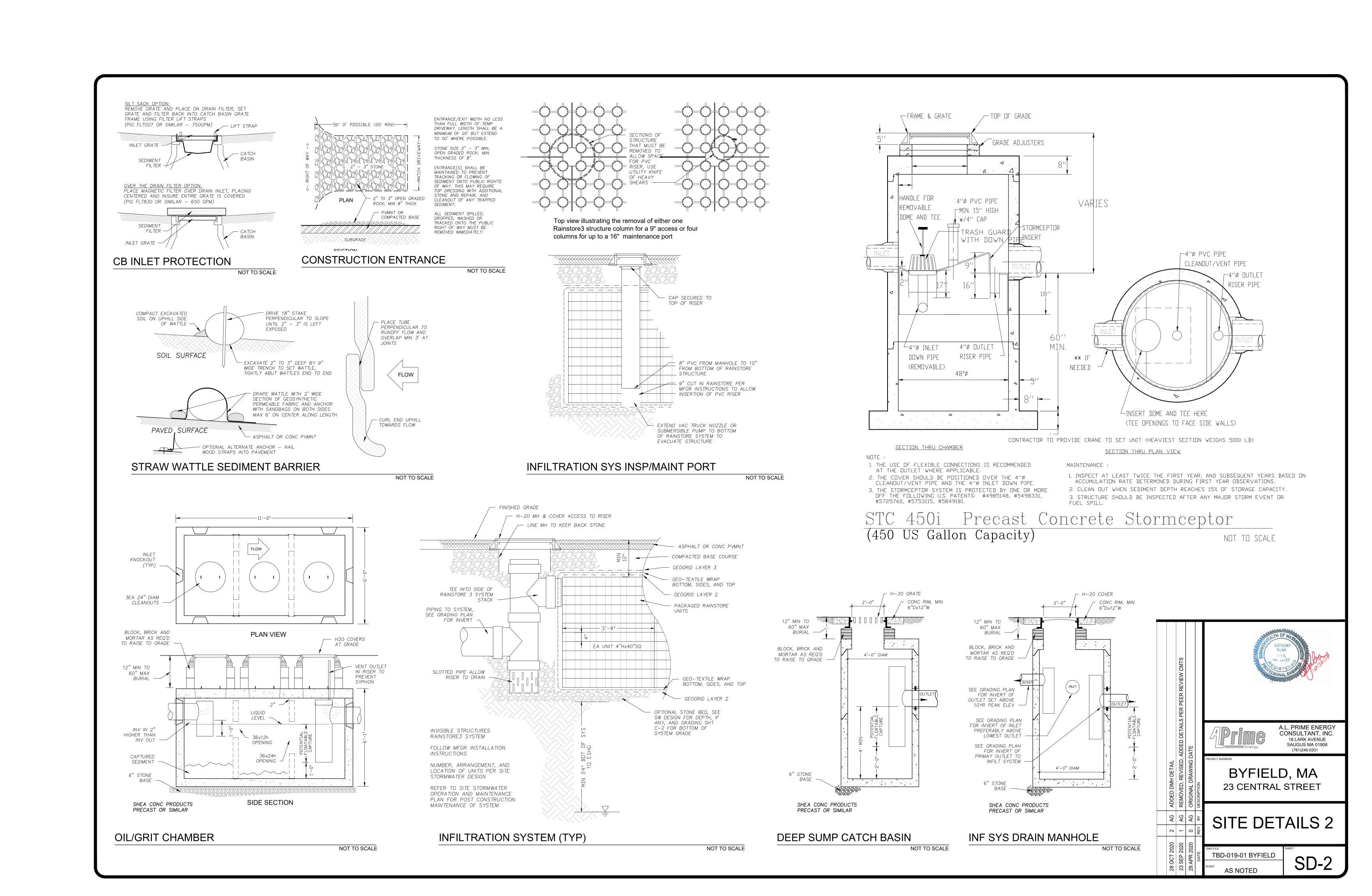
BYFIELD FIRE DEPT REQUIRMENT A MONITORED BUILDING FIRE ALARM PANEL WILL BE INSTALLED AND THIS FIRE SUPPRESSION SYSTEM WILL BE ADDED TO THE PANEL AS A SEPARATE ZONE **GENERAL NOTES**

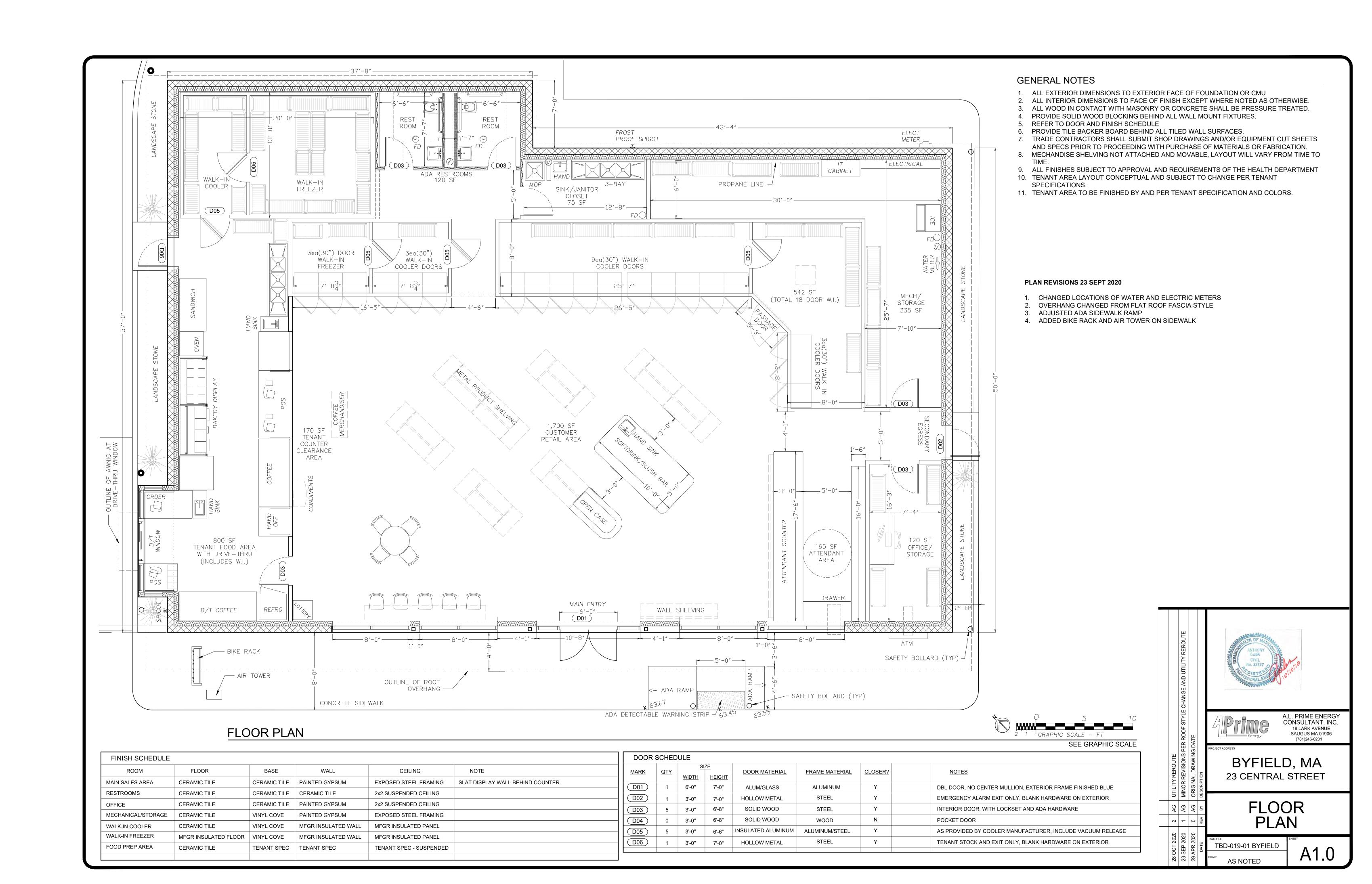
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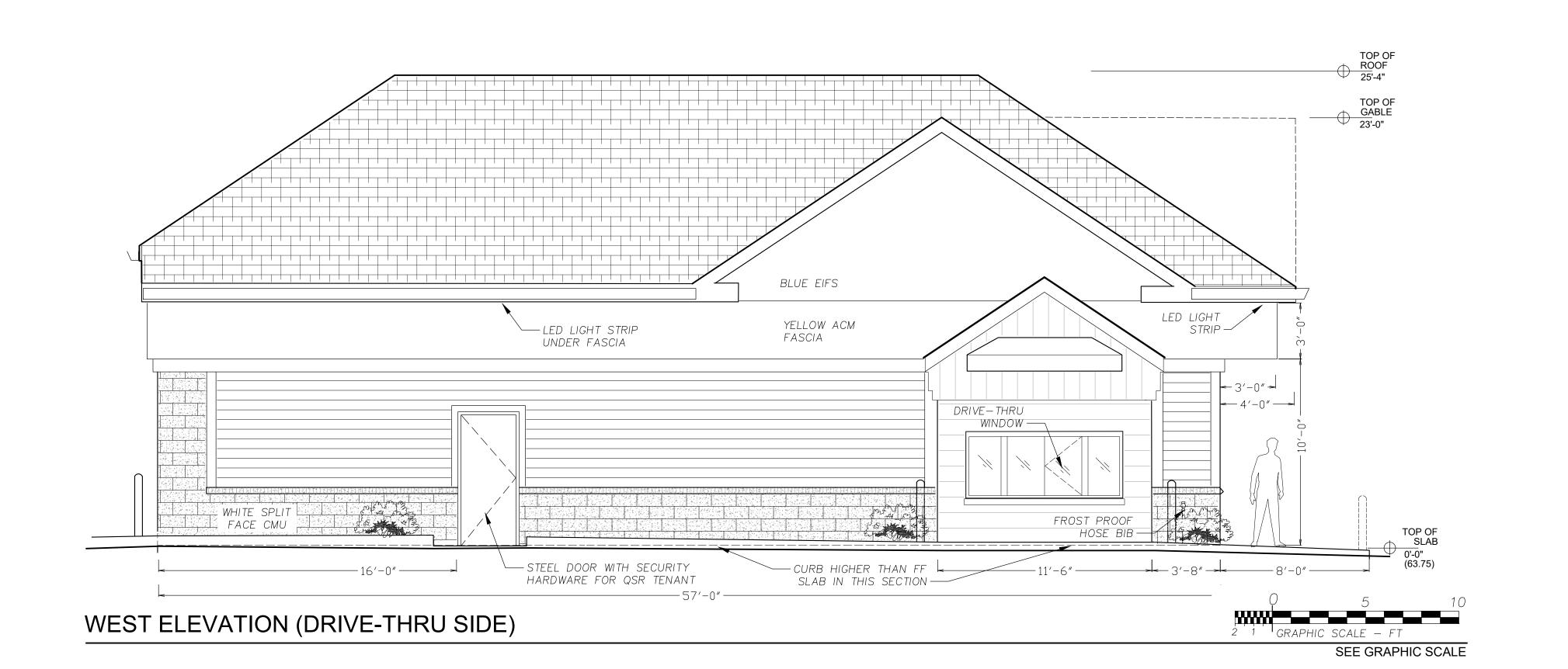




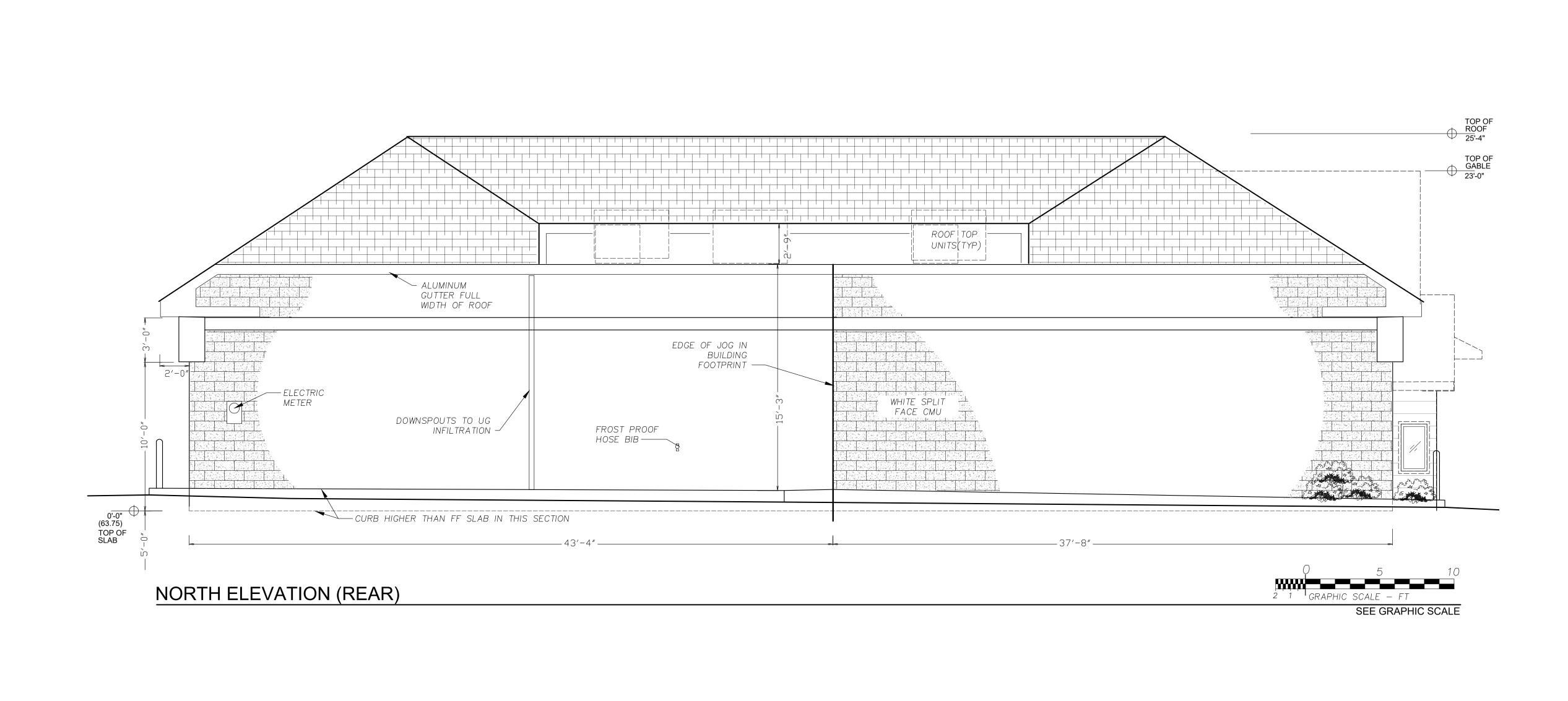


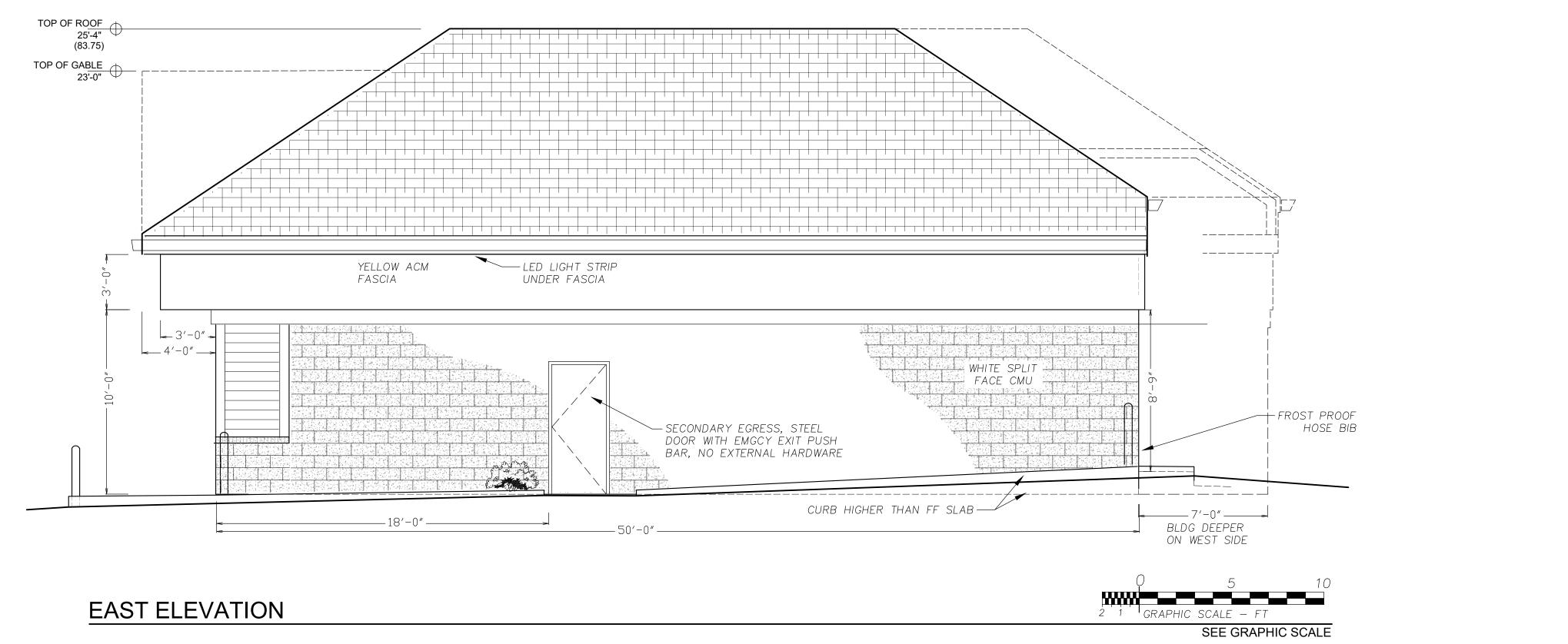


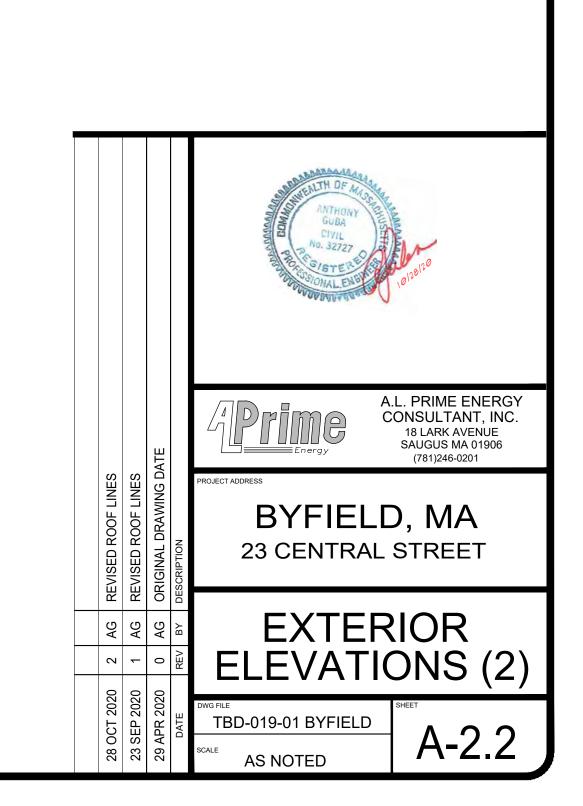
- PROPOSED BUILDING IS A SINGLE STORY SLAB ON GRADE MASONRY AND WOOD FRAME BUILDING.
- 2. SIGNAGE SHOWN ON THIS SHEET AND SG-1 SIGN AND GRAPHICS SHEET ARE PROPOSED, IT IS INTENDED TO PERMIT SIGNAGE SEPARATELY AS ALLOWED BY RIGHT. PETITIONER IS NOT SEEKING VARIANCE OR WAIVER FOR SIGNAGE AS PART OF SITE PLAN OR SPECIAL PERMIT APPROVAL.
- 3. ALL DIMENSIONS TO FACE OF FINISH EXCEPT WHERE NOTED AS OTHERWISE.
- 4. CONFIRM MOUNTING HEIGHT OF TRANSACTION DRAWER AND ATM FOR PROPER ADA ACCESSIBILITY.
- 5. LOCATION OF KNOX BOX AND EXTERNAL FIRE ALARM/STROBE SUBJECT TO FINAL LOCATION APPROVAL BY FIRE DEPARTMENT.
- 6. TRADE CONTRACTORS INCLUDING STOREFRONT FABRICATOR SHALL SUBMIT SHOP DRAWINGS AND/OR EQUIPMENT CUT SHEETS AND SPECS PRIOR TO PROCEEDING WITH PURCHASE OF MATERIALS OR FABRICATION.
- 7. ALUMINUM STOREFRONT PRE-FINISHED BLUE ALUMINUM FRAMES (SEE A.L. PRIME SPECIFICATION) WITH ONE INCH INSULATED GLASS, TEMPERED AS REQ'D BY CODE. BOTTOM PANELS AT COUNTER TO BE OPAQUE OR SOLID INSULATED PANEL.
- 8. SIZE, SHAPE, AND FINISH OF DRIVE-THRU BUILDING BUMP-OUT TO BE ADJUSTED PER TENANT CORPORATE IMAGE AND COLORS.
- 9. TENANT DRIVE-THRU WINDOW AWNING STYLE, HEIGHT, SIZE AND COLOR ARE CONCEPTUAL ONLY AND TO BE ADJUSTED PER TENANT SPECIFICATIONS

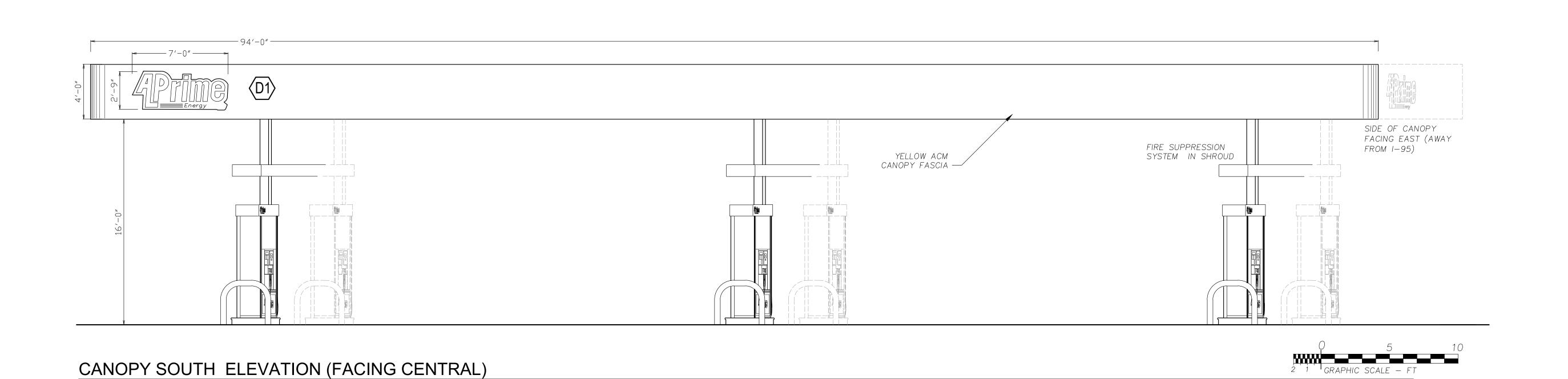


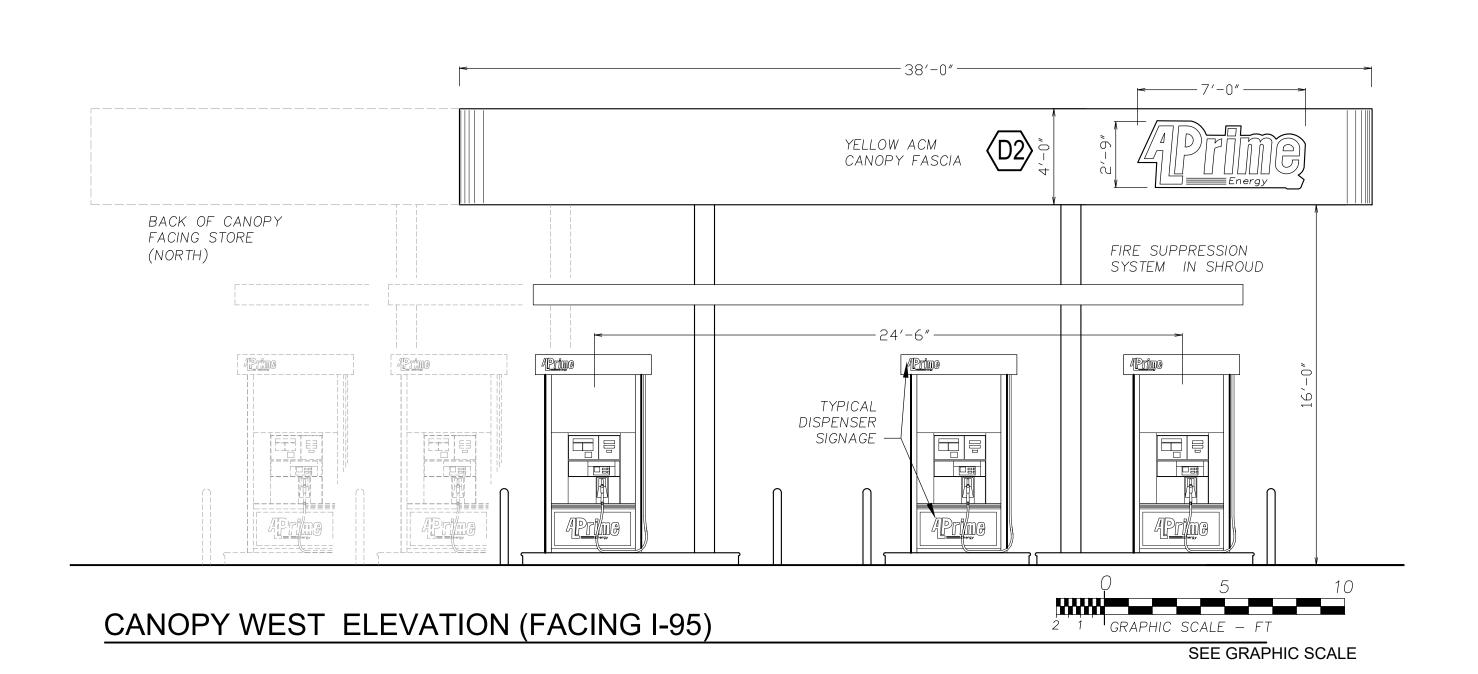












 DO NOT REFER TO THIS PLAN FOR CONSTRUCTION LAYOUT OR PURPOSES. THIS PLAN IS ONLY FOR BOARD REVIEW AND APPROVAL AND DOES NOT CONTAIN ADEQUATE INFORMATION FOR CONSTRUCTION.

SEE GRAPHIC SCALE

- 2. REFER TO CANOPY MANUFACTURER STAMPED STRUCTURAL DRAWINGS, INCLUDING FOOTING DETAILS FOR ALL COLUMN AND FOOTING LAYOUT.
- 3. REFER TO TK-1 TANK AND PIPING PLAN FOR ISLAND AND DISPENSER SUMP LAYOUT.
- 4. REFER TO LOCAL AND STATE FIRE APPROVED FIRE SUPPRESSION PLAN FOR SHROUD AND FIRE SUPPRESSION SYSTEM PIPING LAYOUT
- 5. REFER TO BUILDING DEPARTMENT APPROVED SIGN PLAN FOR LAYOUT OF ANY APPROVED SIGNAGE. SIGNAGE SHOWN IS PROPOSED AND WILL BE APPROVED SEPARATELY AS ALLOWED BY
- 6. REFER TO LIGHTING PLAN AND OWNER SPECIFICATIONS REGARDING NUMBER AND LOCATION OF LIGHTING FIXTURES TO BE INSTALLED INTO CANOPY DECK.

