Attachment 6 - Hanover Crossing Commercial Site Development Plans

## KELLY ENGINEERING GROUP, INC.

0 Campanelli Drive-Braintree-MA 02184 Phone 781 843 4333

# SITE DEVELOPMENT PLANS FOR HANOVER CROSSING COMMERCIAL

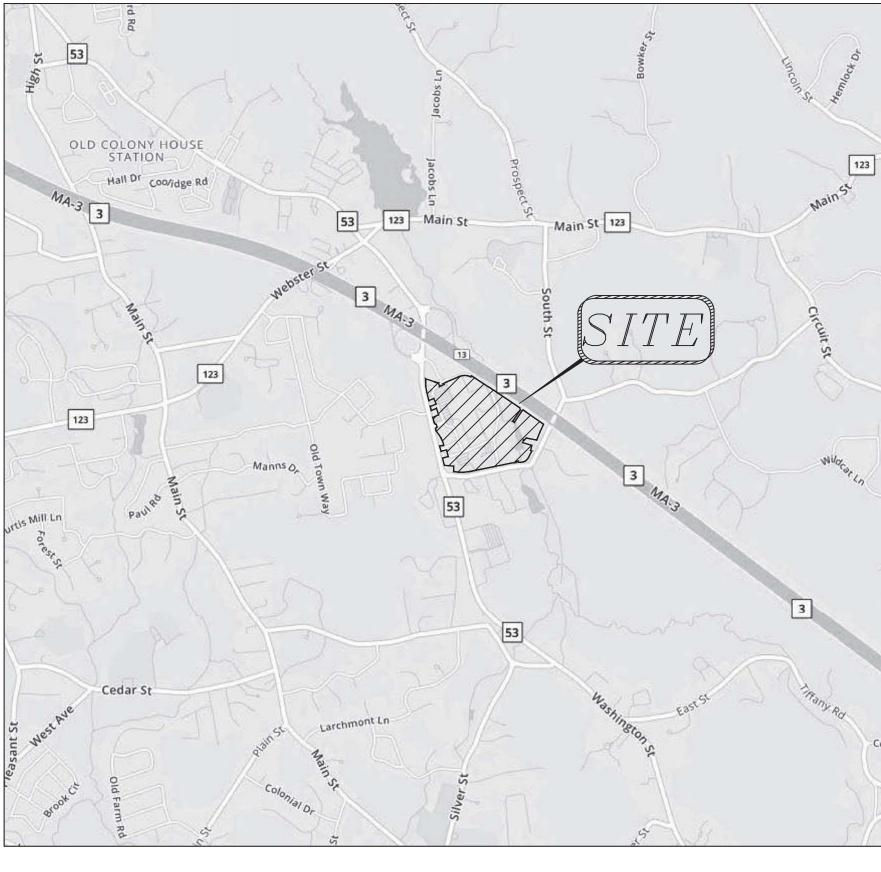
			SHEET IND	EX					
SHEET No.	DESCRIPTION	LATEST REVISED DATE	CONSTRUCTION REVISIONS SHE	ET No.	DESCRIPTION	LATEST REVISED DATE	CONSTRUCTION	REVIS	SIONS
1	COVER SHEET			19	GRADING PLAN (PART 3)				
2	OVERALL EXISTING CONDITIONS PLAN			20	GRADING PLAN (PART 4)				
3	OVERALL LAYOUT PLAN			21	GRADING PLAN (PART 5)				
4	EXISTING CONDITIONS PLAN (PART 1)			22	SEWER & DRAINAGE PLAN (PART 1)				
5	EXISTING CONDITIONS PLAN (PART 2)			23	SEWER & DRAINAGE PLAN (PART 2)				
6	EXISTING CONDITIONS PLAN (PART 3)			24	SEWER & DRAINAGE PLAN (PART 3)				
7	EXISTING CONDITIONS PLAN (PART 4)			25	SEWER & DRAINAGE PLAN (PART 4)				
8	DEMOLITION PLAN (PART 1)			26	SEWER & DRAINAGE PLAN (PART 5)				
9	DEMOLITION PLAN (PART 2)			27	UTILITY PLAN (PART 1)				
10	DEMOLITION PLAN (PART 3)			28	UTILITY PLAN (PART 2)				
11	DEMOLITION PLAN (PART 4)			29	UTILITY PLAN (PART 3)				
12	LAYOUT PLAN (PART 1)			30	UTILITY PLAN (PART 4)				
13	LAYOUT PLAN (PART 2)			31	UTILITY PLAN (PART 5)				
14	LAYOUT PLAN (PART 3)			32	DETAIL SHEET				
15	LAYOUT PLAN (PART 4)			33	DETAIL SHEET				
16	LAYOUT PLAN (PART 5)			34	DETAIL SHEET				
17	GRADING PLAN (PART 1)			35	DETAIL SHEET				
18	GRADING PLAN (PART 2)								

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IONS TO THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF KELLY ENGINEERING GROUP SHALL RENDER IT INVALID AND UNI

# 1775 WASHINGTON STREET HANOVER, MA

## MAY 17, 2019



# LOCATION MAP

# OWNER/ APPLICANT:

PREP HANOVER REAL ESTATE LLC 1790 BONANZA DRIVE, SUITE 201 PARK CITY, UT 84060

# CIVIL ENGINEER:

KELLY ENGINEERING GROUP, INC. O CAMPANELLI DRIVE BRAINTREE, MA 02184

# ARCHITECT:

RICHARD L. BOWEN + ASSOCIATES INC. 13000 SHAKER BLVD. CLEVELAND, OH 44120

# LANDSCAPE ARCHITECT:

HAWK DESIGN, INC. P.O. BOX 1309 SANDWICH, MA 02563

# WETLANDS SCIENTIST:

ECOTEC, INC. 102 GROVE STREET WORCESTER, MA 01605

# TRANSPORTATION ENGINEER:

VANASSE & ASSOCIATES, INC. 35 NEW ENGLAND BUSINESS CENTER DRIVE SUITE 140 ANDOVER MA 01910

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CALE A	DISK REF NO. F: \P\2016−075	1775	WASHINGTON S
DATE	DRAWN BY		HANOVER, MA
5/17/19	CJL		<b>KELLY ENGINEERIN</b>
HEET	CHKD BY		civil engineering
of 35	BGL		
LAN NO. 016–075–TS00	APPD BY		0 Campanelli Drive, Brair Phone: 781-843-4333 www.kellye

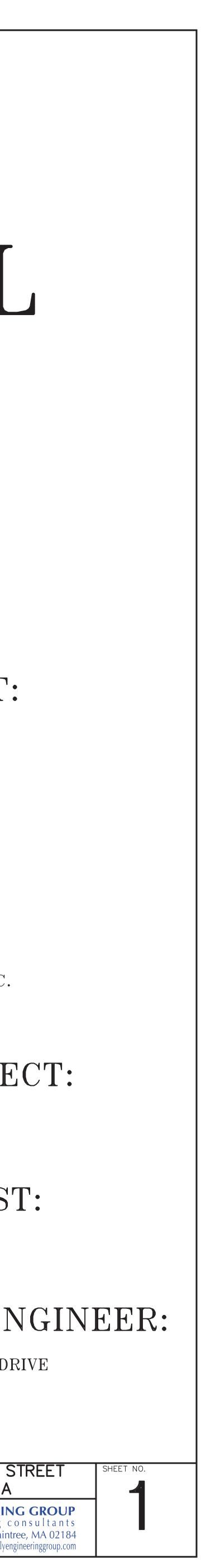


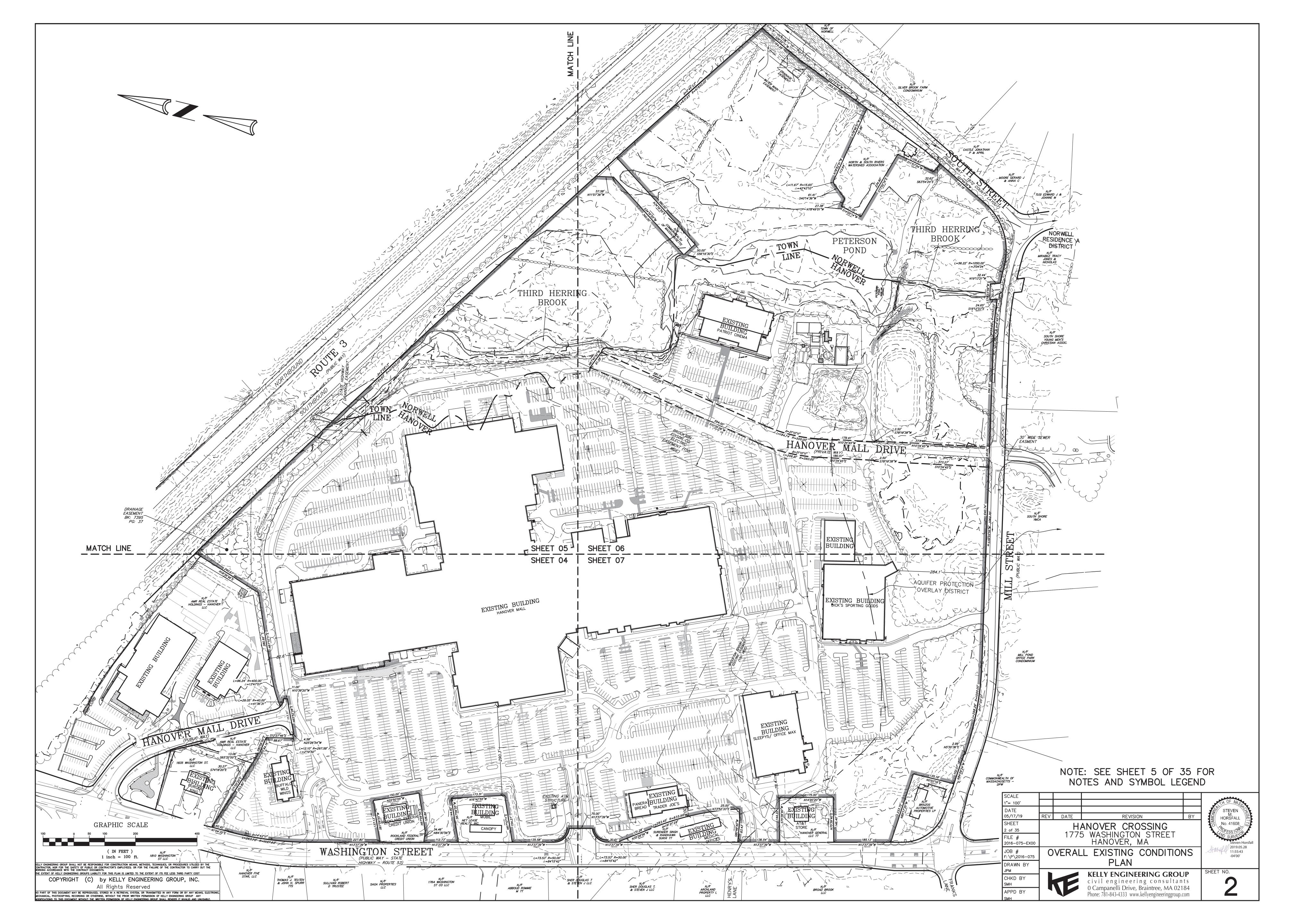
HANOVER

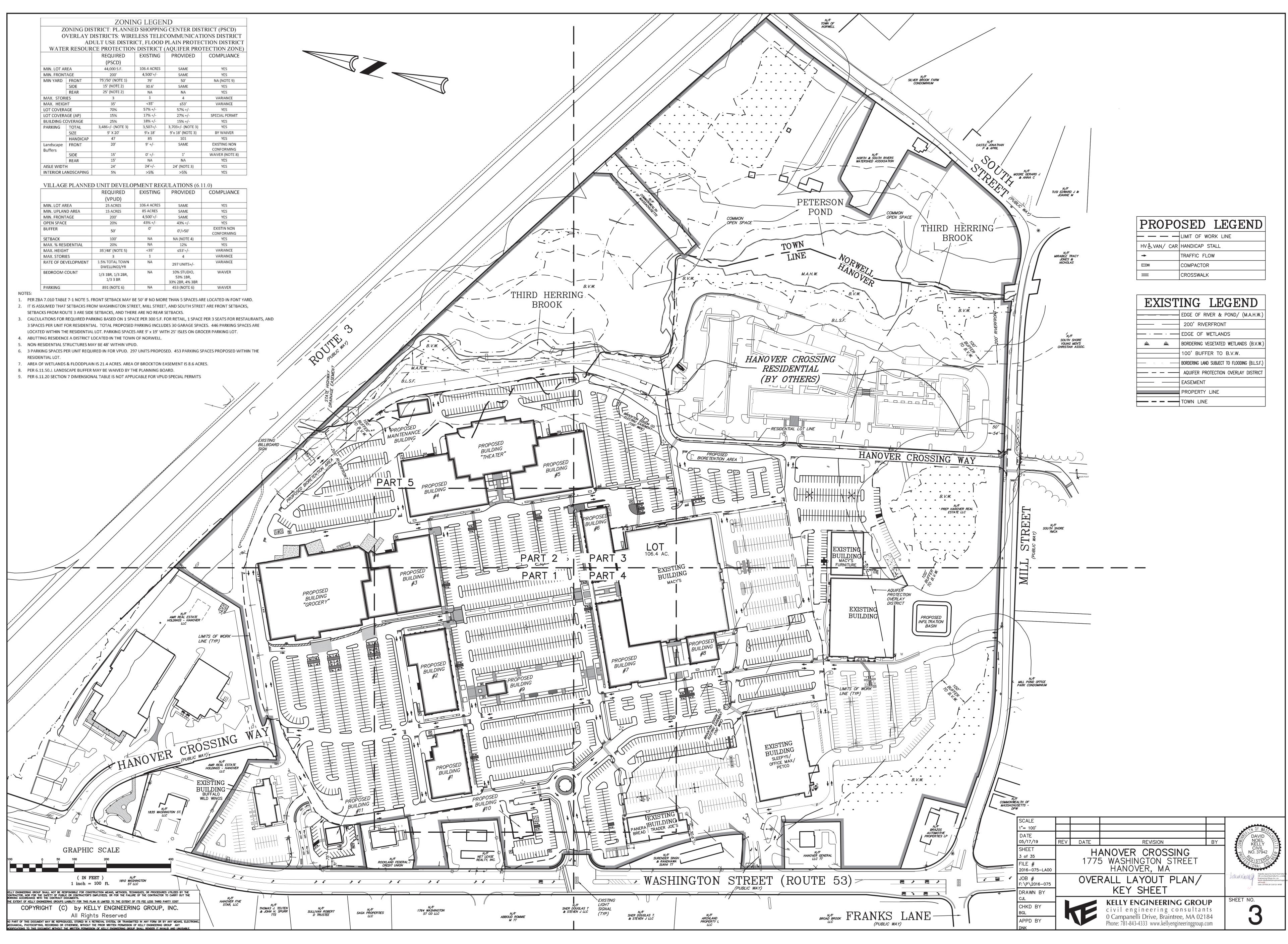
CROSSING

**KELLY ENGINEERING GROUP** 

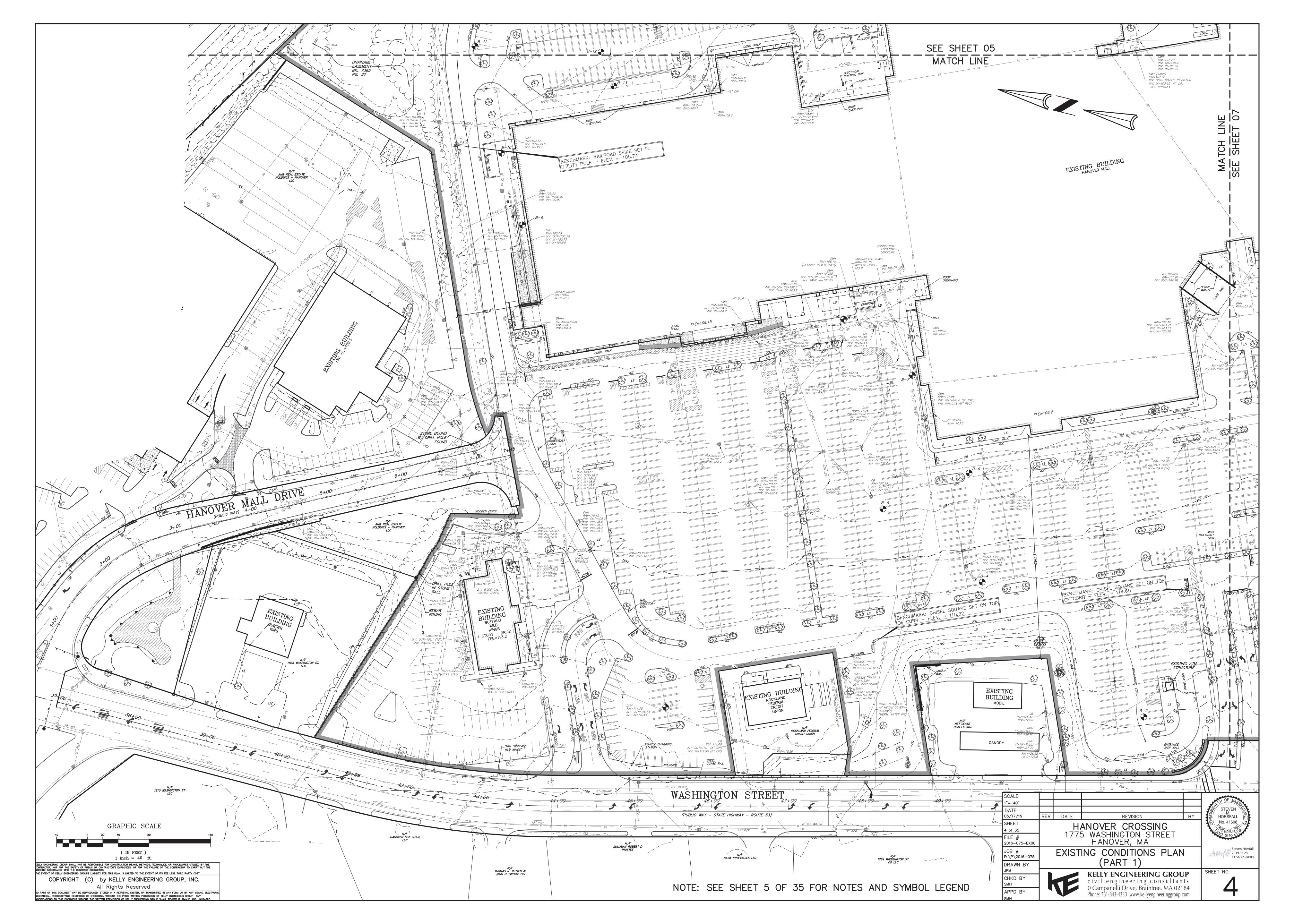
civil engineering consultants



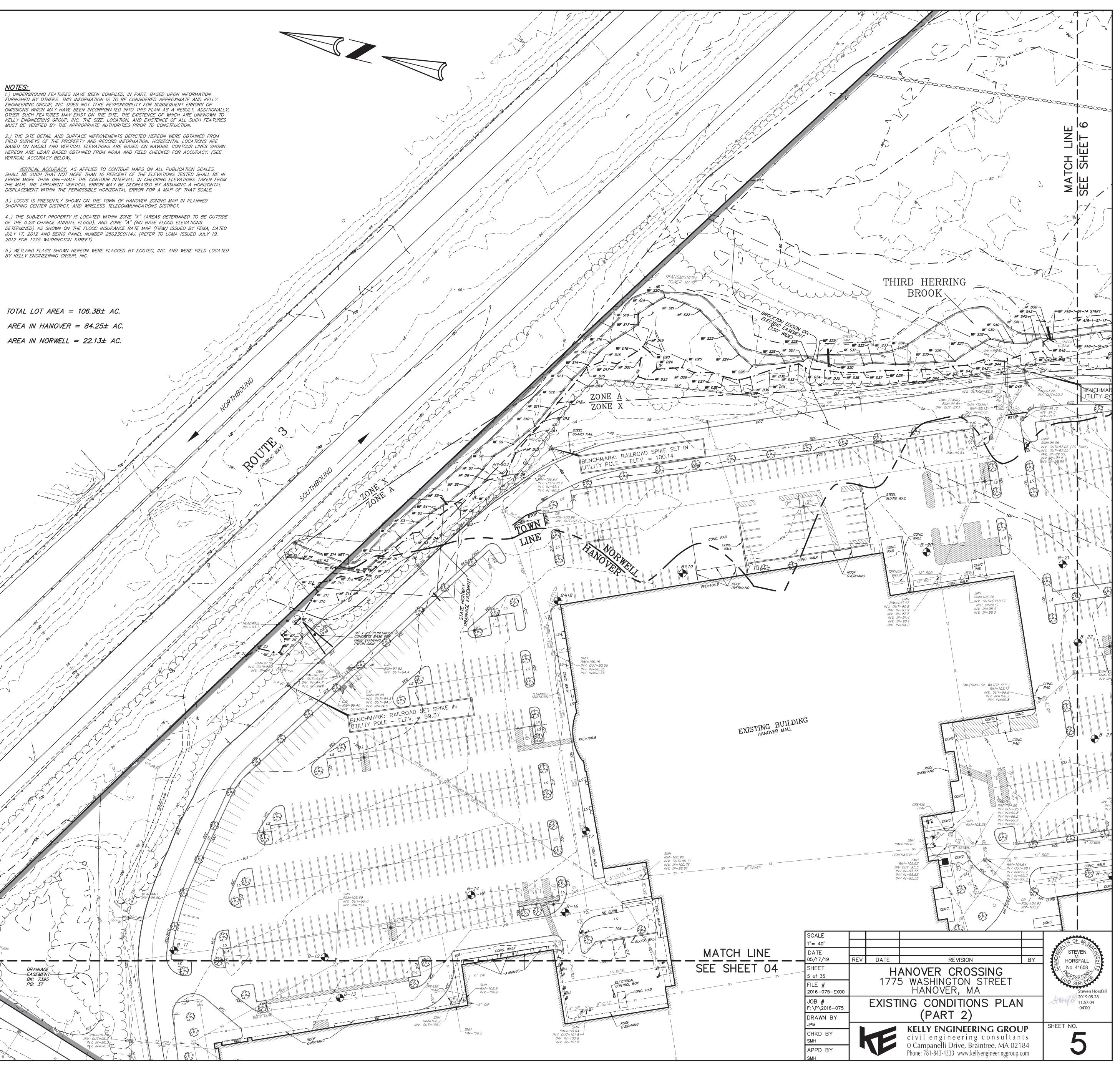




	SED LEGEND
	LIMIT OF WORK LINE
2	HANDICAP STALL
	TRAFFIC FLOW
	COMPACTOR
	CROSSWALK
	•
[	ING LEGEND
_	EDGE OF RIVER & POND/ (M.A.H.W.)
	200' RIVERFRONT
_	EDGE OF WETLANDS
	BORDERING VEGETATED WETLANDS (B.V.W.)
	100' BUFFER TO B.V.W.
	BORDERING LAND SUBJECT TO FLOODING (B.L.S.F.)
	AQUIFER PROTECTION OVERLAY DISTRICT
	EASEMENT
	PROPERTY LINE



	EXISTING	LEGE	ND
CC	CARRIAGE CORRAL	ССВ	CAPE COD BERM
Ŀ.	HANDICAP SPACE	BCC	BITUMINOUS CONCRETE BERM
<i>₽ B−#</i>	BORING LOCATION	VGC	VERTICAL GRANITE BERM
	SIGN	VCC	VERTICAL CONCRETE BERM
	CATCH BASIN	EOP	EDGE OF PAVEMENT
D	DRAIN MANHOLE	LS	LANDSCAPED AREA
SD	DRAIN LINE	ССВ	CAPE COD BERM
<i>UD</i>	UNDER DRAIN LINE	0 0 0 0 0	GUARDRAIL
S	SEWER MANHOLE	₽B	BOLLARD
0	SEWER CLEAN OUT	•	TRAFFIC LIGHT
ss	SEWER LINE	CS-HP	HIGH PRESSURE GAS LINE
G	GAS LINE	PVC	POLYVINYL CHLORIDE PIPE
GV	GAS VALVE	DIP	DUCTILE IRON PIPE
□GM	GAS METER	RCP	REINFORCED CONCRETE PIPE
, ÇÇ	HYDRANT	CIP	CURED-IN-PLACE PIPE
WV N	WATER VALVE		EDGE OF WETLANDS
w	WATER LINE	• WF #	WETLAND FLAG
	WATER MANHOLE	<u>عللا</u>	WETLAND
т	TELECOMMUNICATION LINE		EDGE OF RIVER
Ť	TELECOMMUNICATION MANHOLE		FLOOD PLAIN
Т	ELECTRIC TRANSFORMER	oo	CHAIN LINK FENCE
Y <sup>guy</sup>	POLE GUY WIRE	x	FENCE
ص	UTILITY POLE		GRAVEL PATH
U.P.#12	UTILITY POLE NUMBER		TREE LINE
	LIGHT POLE		TREES
EM	ELECTRIC METER		STONE WALL
□ EHH	ELECTRIC HAND HOLE		EASEMENT
OHE	OVERHEAD ELECTRIC LINE		PROPERTY LINE
UGE	UNDERGROUND ELECTRIC LINE		"DISTURBED" LINE
x	CONTOUR LINE (MNR)		AQUIFER PROTECTION LINE
	CONTOUR LINE (MJR)		TOWN_LINE
•	MISC. COVER		



## PLAN REFERENCES: 1.) PLAN BOOK: 15 PAGE: 774

2.) PLAN BOOK: 62 PAGE: 4496 3.) PLAN NO. 903 OF 1972 4.) PLAN NO. 179 OF 1974 5.) PLAN NO. 1554 OF 1986 6.) PLAN NO. 233 OF 1993 7.) PLAN NO. 638 OF 1994 8.) LAND COURT CONFIRMATION PLAN 35440A RECORDED AS PLAN 379 OF 1976 9.) LAND COURT PLAN 39715A 10.) LAND COURT PLAN 39715B 11.) ALTA/NSPS LAND TITLE SURVEY

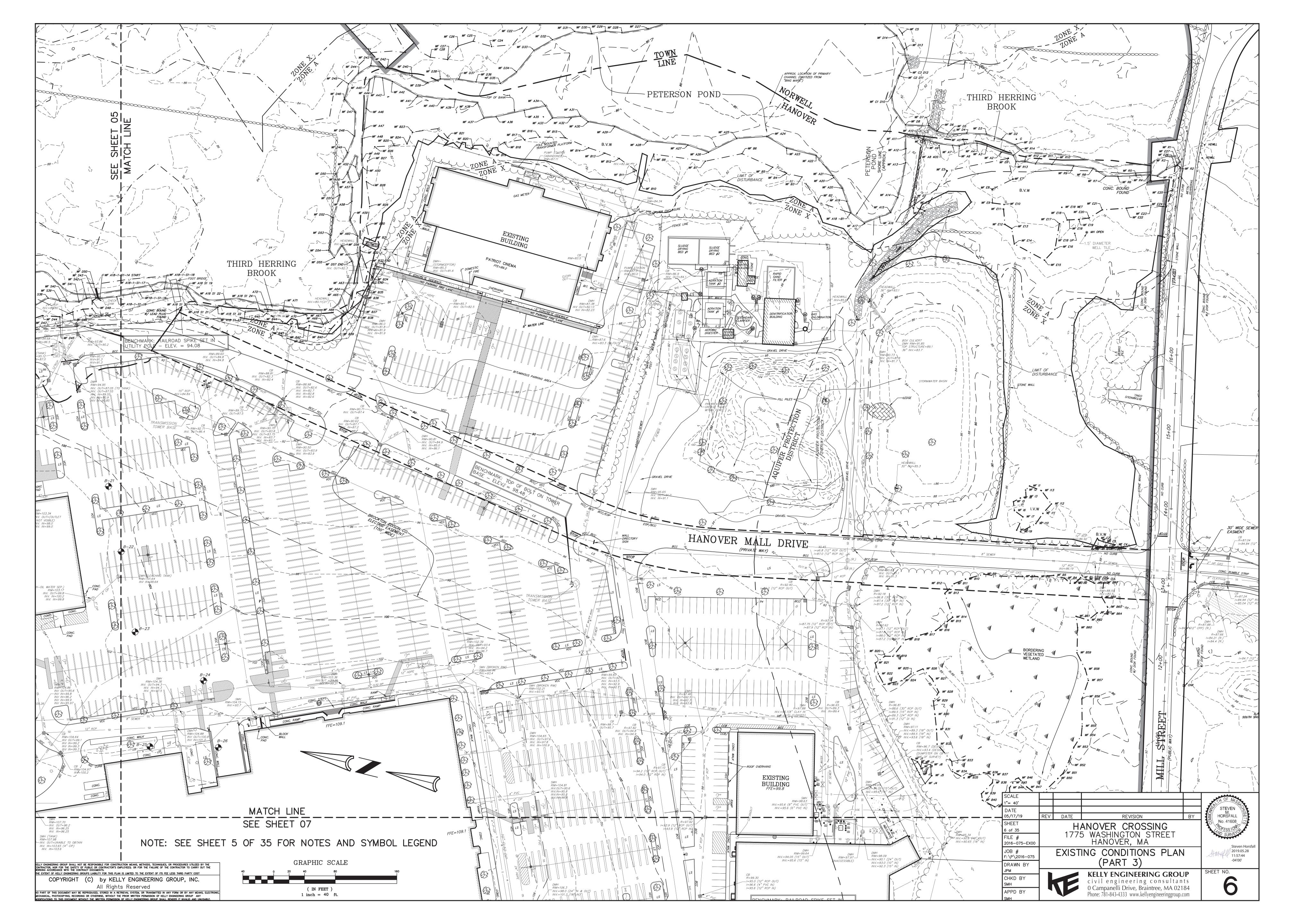
PREPARED BY HOLDEN ENGINEERING AND SURVEYING INC., PREPARED FOR BOCK AND CLARK, NATIONAL COORDINATORS, DATED 6-6-16 AND LAST REVISED 10-19-16

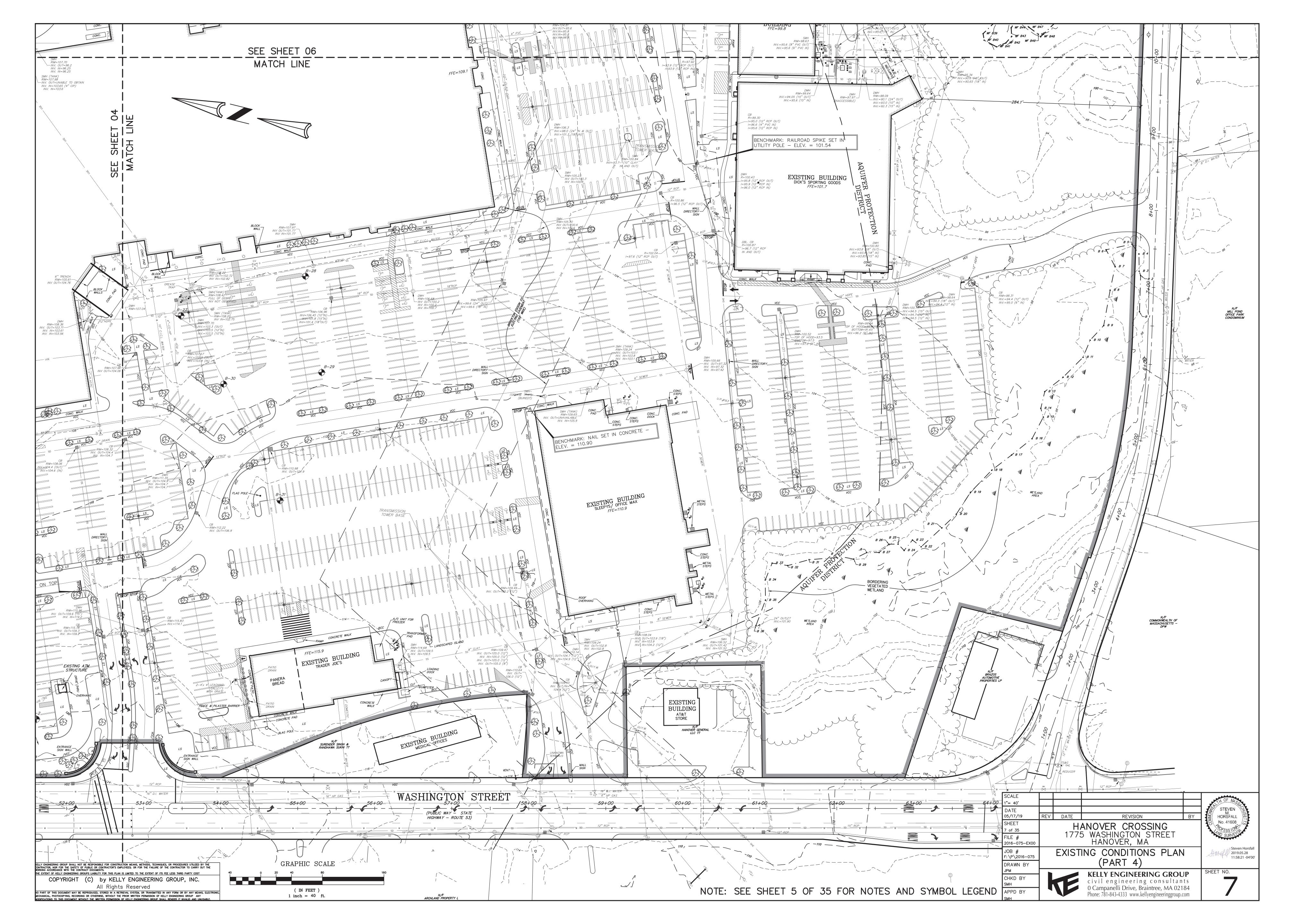
## LIST OF UTILITY PROVIDERS: WATER: TOWN OF HANOVER WATER DEPT. 781-826-5000 CONTACT – NEAL MERRITT <u>ELECTRIC</u>: NATIONAL GRID 508–897–5756 CONTACT – ANN ADUCI TELECOMMUNICATION: VERIZON 508-795-3196 CONTACT- SEVEN CENTRRELLA COLUMBIA GAS CO. <u>GAS:</u> 508–580–0110 CONTACT- PAUL TAPPEN <u>DIGSAFE</u>: 888–344–7233

GRAPHIC SCALE

### ( IN FEET ) 1 inch = 40 ft.

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EXIS	<b>FING LEGEND</b>	
	CATCH BASIN	
D	DRAIN MANHOLE	
SD	- DRAIN LINE	
<i>UD</i>	UNDER DRAIN LINE	
S	SEWER MANHOLE	
0	SEWER CLEAN OUT	
EX-SS	SEWER LINE	
———— EX-G ————	GAS LINE	
———— EX-W ————	WATER LINE	
— т	TELECOMMUNICATION LINE	
1	TELECOMMUNICATION MANHOLE	
Т	ELECTRIC TRANSFORMER	
Y <sup>guy</sup>	POLE GUY WIRE UTILITY POLE	
J.		
U.P.#12	UTILITY POLE NUMBER	
	LIGHT POLE	
ШЕМ	ELECTRIC METER	
□ EHH	ELECTRIC HAND HOLE	
EX-OHU	OVERHEAD ELECTRIC LINE	
EX-UG <del>U</del>	UNDERGROUND ELECTRIC LINE	
_ · ·	EDGE OF WETLANDS	
•B7	WETLAND FLAG	
<u>Mk</u>	WETLAND SYMBOL	
	EDGE OF RIVER	
	- FLOOD PLAIN	
	PROPERTY LINE	
	AQUIFER PROTECTION LINE	
	TOWN_LINE	

## ANTICIPATED SITE CONSTRUCTION SEQUENCING

- INITIAL MOBILIZATION PHASE:
- 1. INSTALLATION OF CONSTRUCTION SIGNAGE. 2. INSTALLATION OF CONSTRUCTION SECURITY FENCING AND GATES
- 3. INSTALLATION OF PERIMETER EROSION CONTROLS 4. CLEARING OF TREES IN THE AREA OF WORK
- 5. STAKE OUT AND PROTECT AREAS OF INFILTRATION BASIN'S, INSTALLATION OF TEMPORARY SEDIMENT PONDS.THE CONTRACTOR SHOULD SET THESE BMPs BASED ON CONSTRUCTION SCHEDULE AND SITE CONDITIONS).
- 6. BEGIN FOUNDATION WORK ON BUILDING 7. CONTINUE SITE PREPARATION ON PERIMETER OF LAND, INCLUDING, CUTS
- AND FILLS AND GRADE SITE TO TEMPORARY SEDIMENT PONDS. 8. CONSTRUCT STORMWATER MANAGEMENT SYSTEM.
- 9. ONGOING INSPECTIONS, INSTALLATION AND REPLACEMENT OF ANY NEW OR EXISTING EROSION CONTROLS MEASURES SHALL BE ADDED BY THE CONTRACTOR ON AN AS-NEEDED BASIS.

## SEDIMENT CONTROL

1. PRIOR TO THE COMMENCEMENT OF ANY OTHER WORK A CONSTRUCTION FENCE SHALL BE INSTALLED AROUND THE EXISTING AND PROPOSED LIMITS OF WORK.

2. PRIOR TO THE COMMENCEMENT OF ANY OTHER WORK A SILT SACK SHALL BE INSTALLED IN EACH EXISTING DRAINAGE INLET. 3. AFTER INSTALLATION OF EACH DRAINAGE INLET A SILT SACK SHALL BE INSTALLED IN EACH INLET TO PREVENT SEDIMENT FROM ENTERING THE

STORM DRAIN SYSTEM. 4. AT THE END OF EACH WORK DAY, THE OPERATOR SHALL MECHANICALLY SWEEP OR MANUALLY SWEEP SEDIMENTS FROM THE

STREET, UNLESS TRACKING AND SEDIMENT IS NOT EVIDENT. 5. TEMPORARY SEEDING - WITHIN 14 DAYS AFTER CONSTRUCTION

ACTIVITY CEASES ON ANY PARTICULAR AREA, ALL DISTURBED GROUND WHERE THERE WILL NOT BE CONSTRUCTION FOR LONGER THAN 21 DAYS MUST BE SEEDED WITH FAST-GERMINATING TEMPORARY SEED AND PROTECTED WITH MULCH.

6. PER CONSTRUCTION GENERAL PERMIT, THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE LOOSE CONSTRUCTION DEBRIS BEFORE IT LEAVES THE SITE. ALL DEMOLITION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE SITE TO A LEGAL DUMP SITE. ALL TRUCKS LEAVING THE SITE SHALL BE COVERED.

7. DUMPSTERS SHALL BE BROUGHT TO THE SITE WHILE CONSTRUCTION IS ONGOING AND SHALL BE USED FOR ALL CONSTRUCTION/BUILDING DEBRIS. THIS SHALL BE REGULARLY EMPTIED SUCH THAT MATERIALS DO NOT SPILL ONTO THE GROUND. DUMPSTERS SHALL BE COVERED AT NIGHT. 8. NO DEWATERING IS PERMITTED UNLESS THE CONSERVATION COMMISSION AND/OR DEPARTMENT OF PUBLIC WORKS HAS RECEIVED AND APPROVED, OR APPROVED WITH MODIFICATIONS, A DEWATERING PLAN.

ANY TEMPORARY SETTLING BASINS TO BE CONSTRUCTED SHALL BE PRE-APPROVED BY THE CONSERVATION COMMISSION. 9. AT THE END OF CONSTRUCTION ALL DRAINAGE STRUCTURES TO REMAIN SHALL BE CLEANED OF SILT, STONES AND OTHER DEBRIS.

10. DURING CONSTRUCTION THE SEDIMENT CONTROL MEASURES SHOWN ON THESE PLANS SHALL BE INSPECTED EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF ANY STORM EVENT GENERATING MORE THAN 1/2" OF RAINFALL. THE SEDIMENT CONTROL MEASURES SHALL BE CLEANED REGULARLY AND ADJUSTED IF NECESSARY TO ENSURE THAT NO SILT OR DEBRIS LEAVES THE SITE.

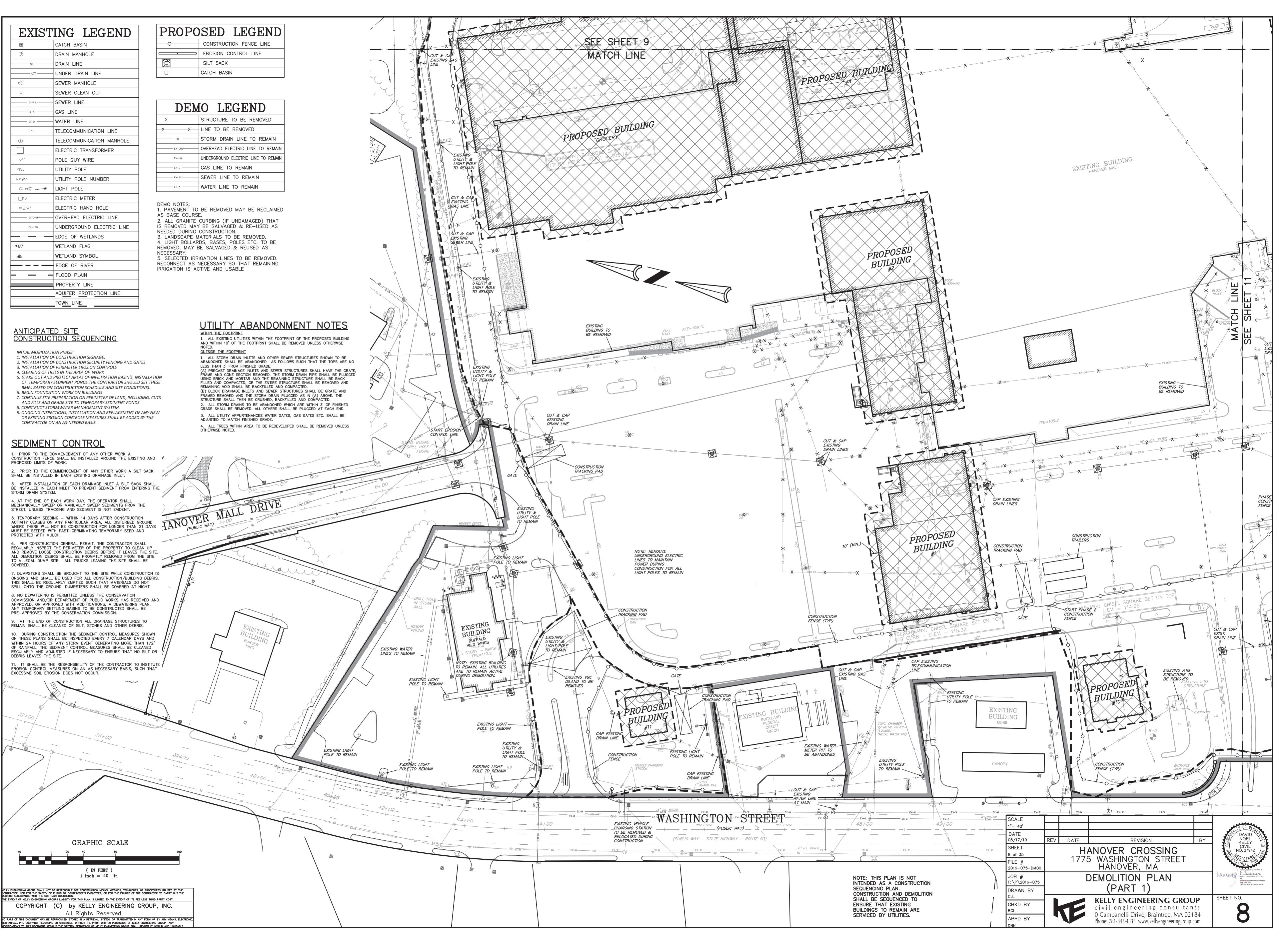
11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE EROSION CONTROL MEASURES ON AN AS NECESSARY BASIS, SUCH THAT EXCESSIVE SOIL EROSION DOES NOT OCCUR.

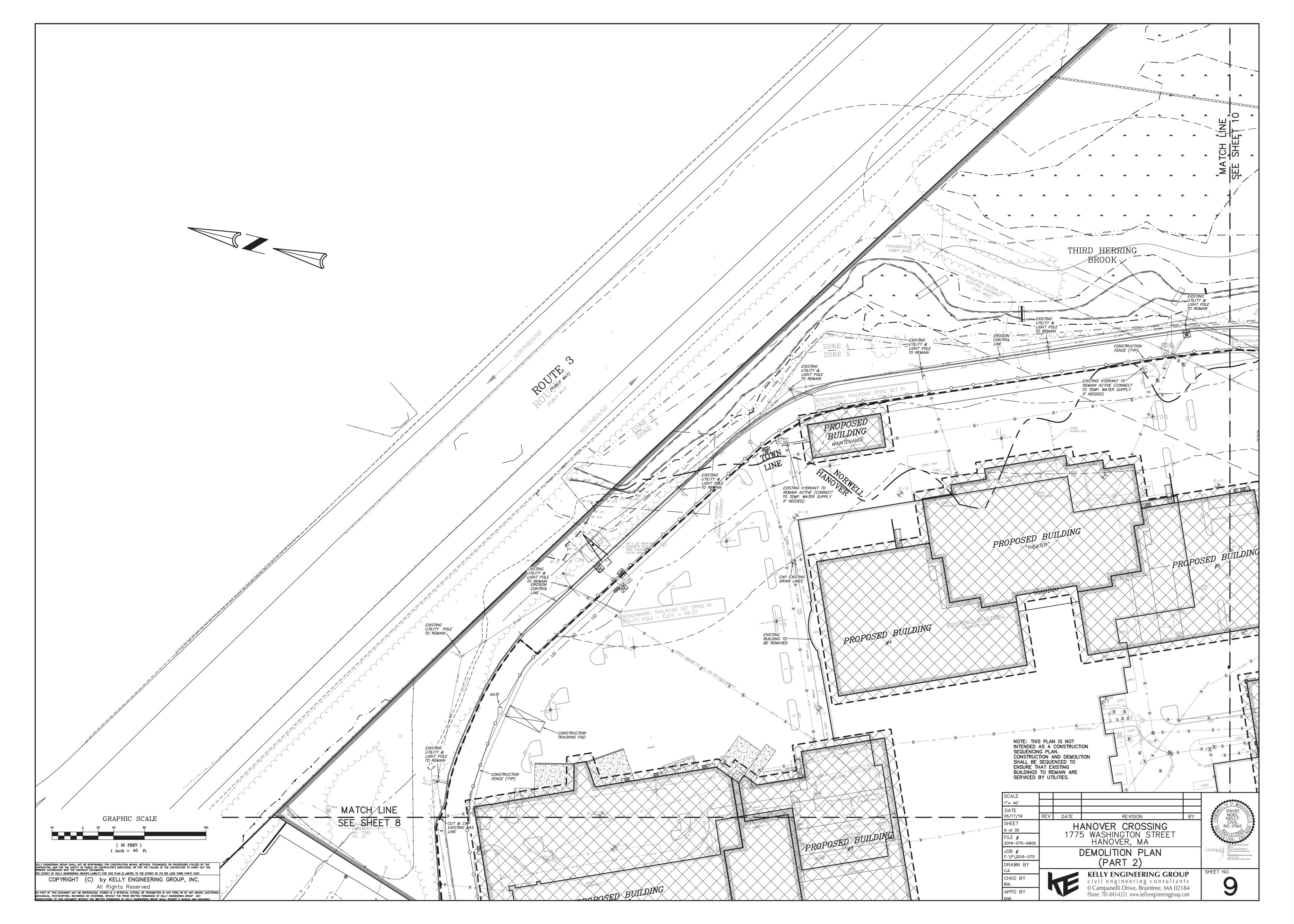
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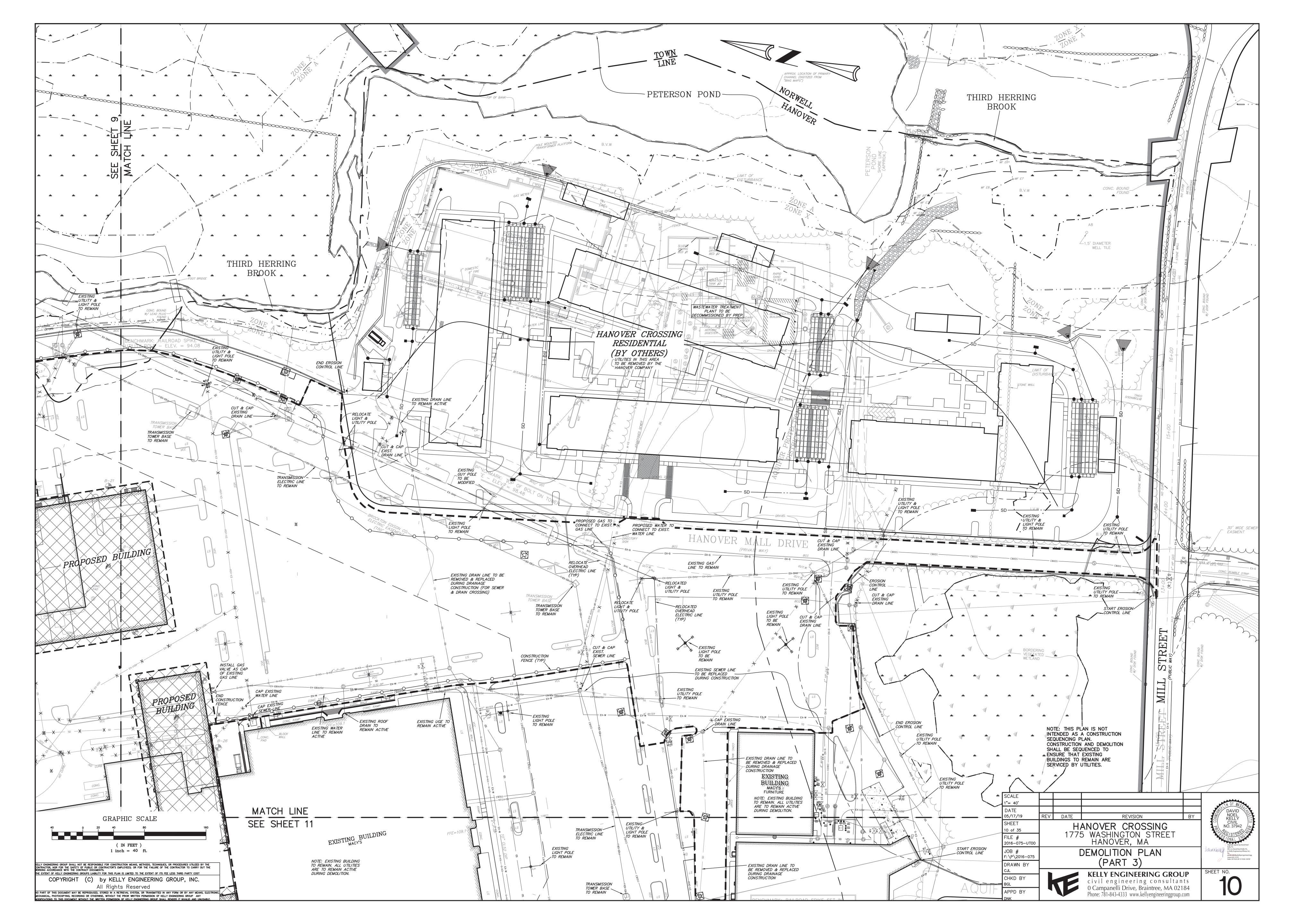
PROPO	SED LEGEND
	CONSTRUCTION FENCE LINE
	EROSION CONTROL LINE
	SILT SACK
	CATCH BASIN

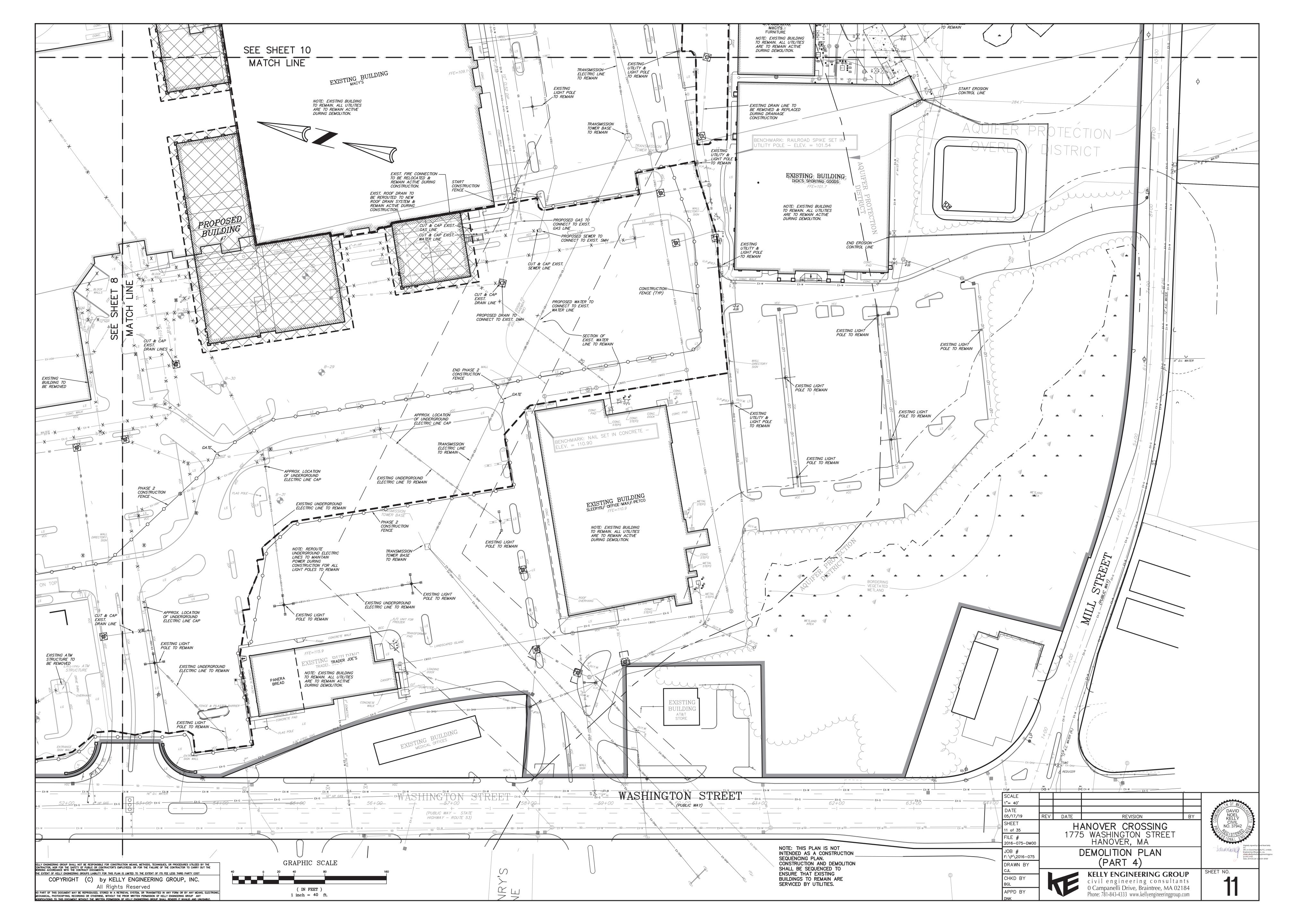
DEM	IO LEGEND
X	STRUCTURE TO BE REMOVED
× ×	LINE TO BE REMOVED
SD	STORM DRAIN LINE TO REMAIN
EX-OHU	OVERHEAD ELECTRIC LINE TO REMAIN
EX-UGU	UNDERGROUND ELECTRIC LINE TO REMAIN
EX-G	GAS LINE TO REMAIN
EX-SS	SEWER LINE TO REMAIN
EX-W	WATER LINE TO REMAIN

FILLED AND COMPACTED, OR THE ENTIRE STRUCTURE SHALL BE REMOVED AND REMAINING VOID SHALL BE BACKFILLED AND COMPACTED. B) BLOCK DRAINAGE INLETS AND SEWER STRUCTURES SHALL BE GRATE AND

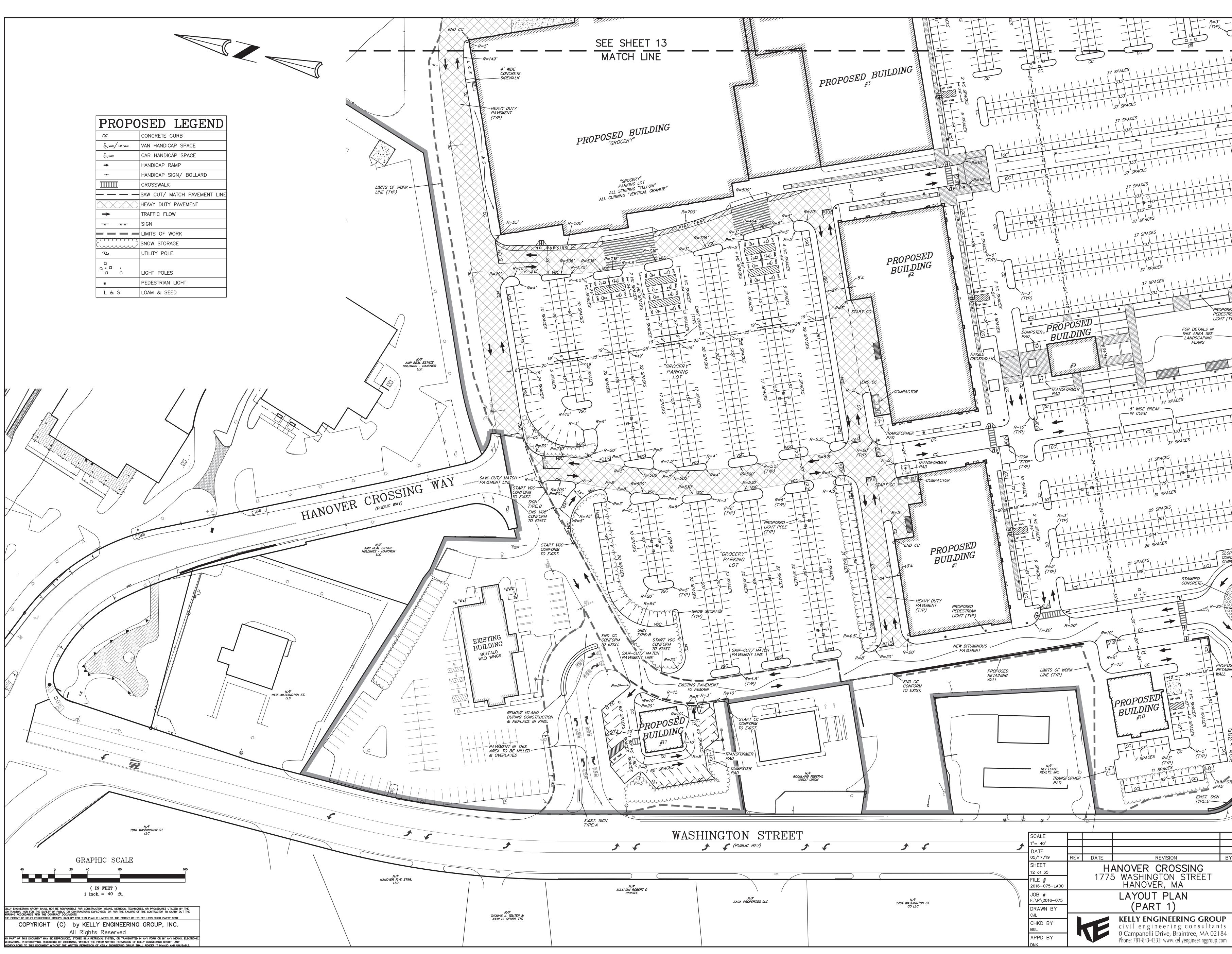




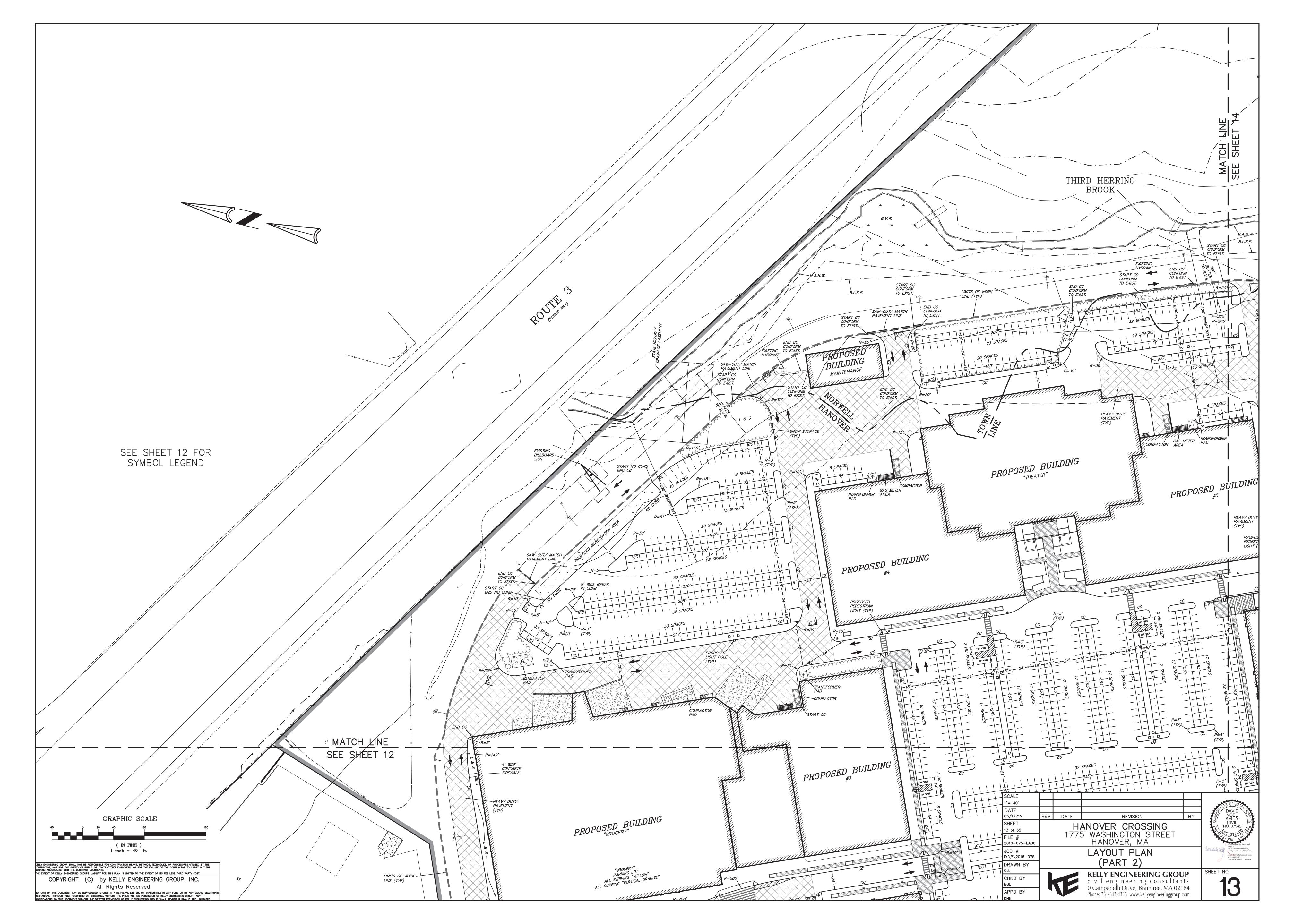


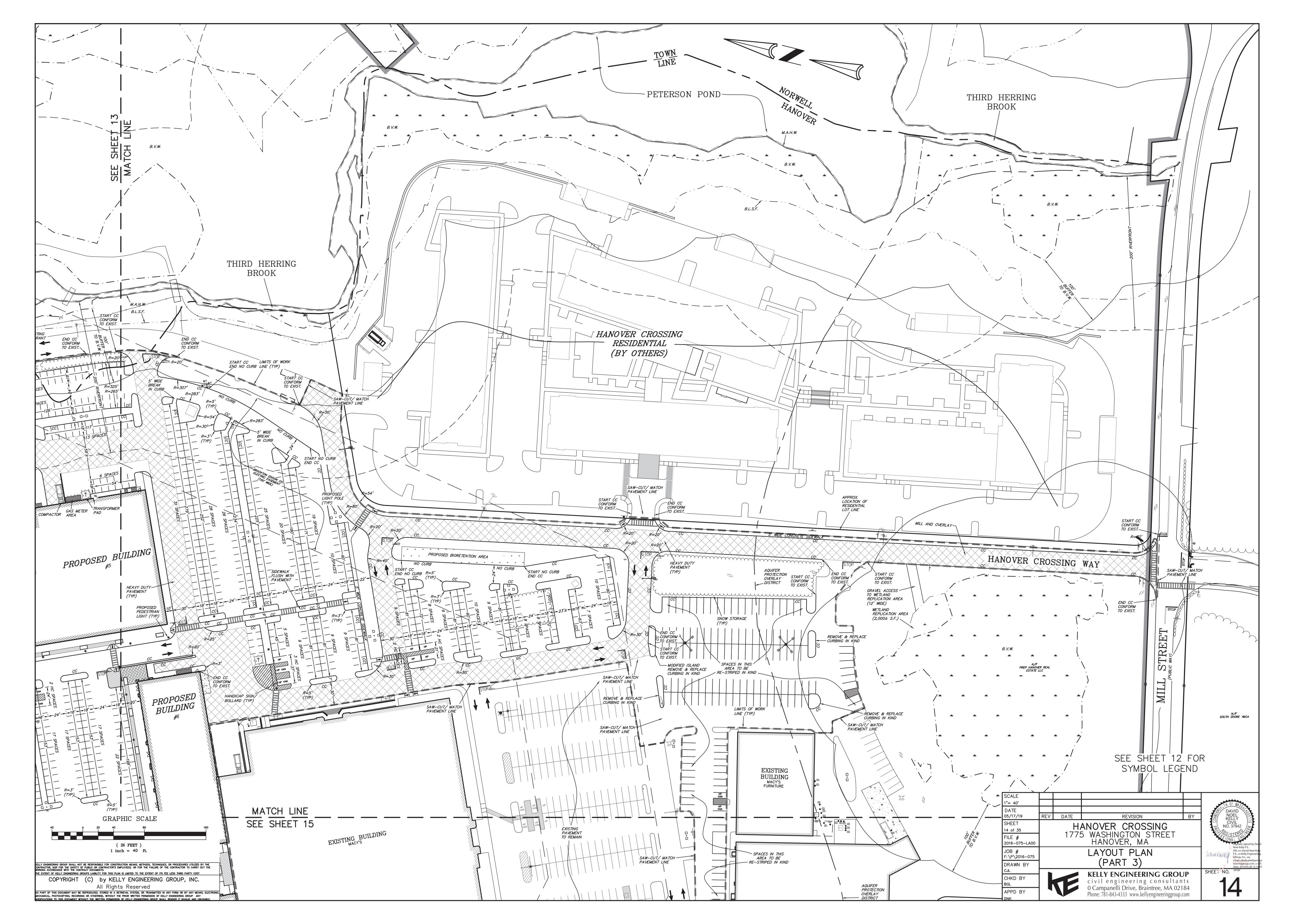


PROPC	SED LEGEND
СС	CONCRETE CURB
€ van∕hp van	VAN HANDICAP SPACE
لگر CAR	CAR HANDICAP SPACE
→	HANDICAP RAMP
- <b>e</b> -	HANDICAP SIGN/ BOLLARD
шш	CROSSWALK
	SAW CUT/ MATCH PAVEMENT LINE
	HEAVY DUTY PAVEMENT
→	TRAFFIC FLOW
<del></del>	SIGN
	LIMITS OF WORK
E	SNOW STORAGE
പ	UTILITY POLE
	LIGHT POLES
Ŵ	PEDESTRIAN LIGHT
L & S	LOAM & SEED

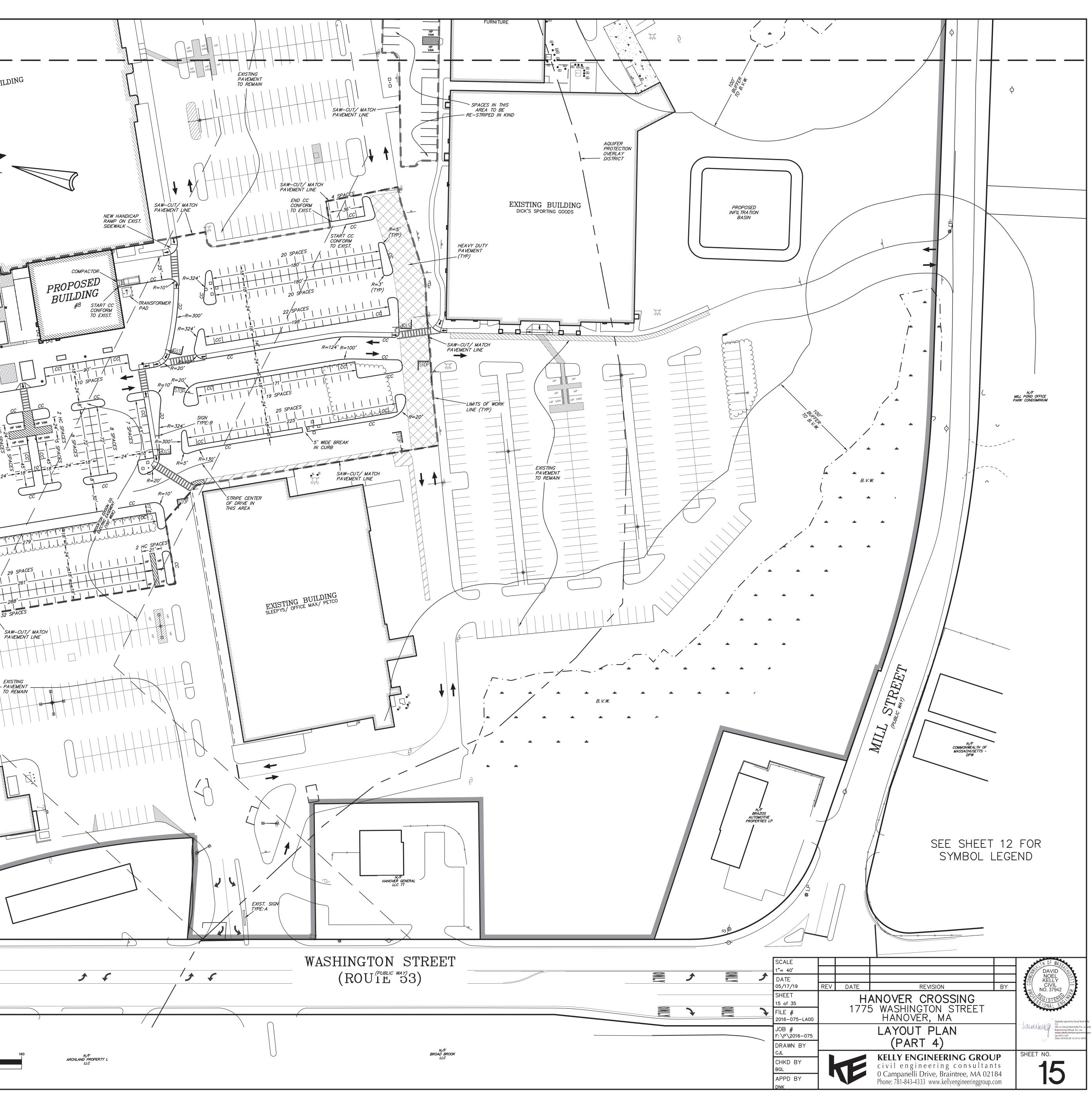


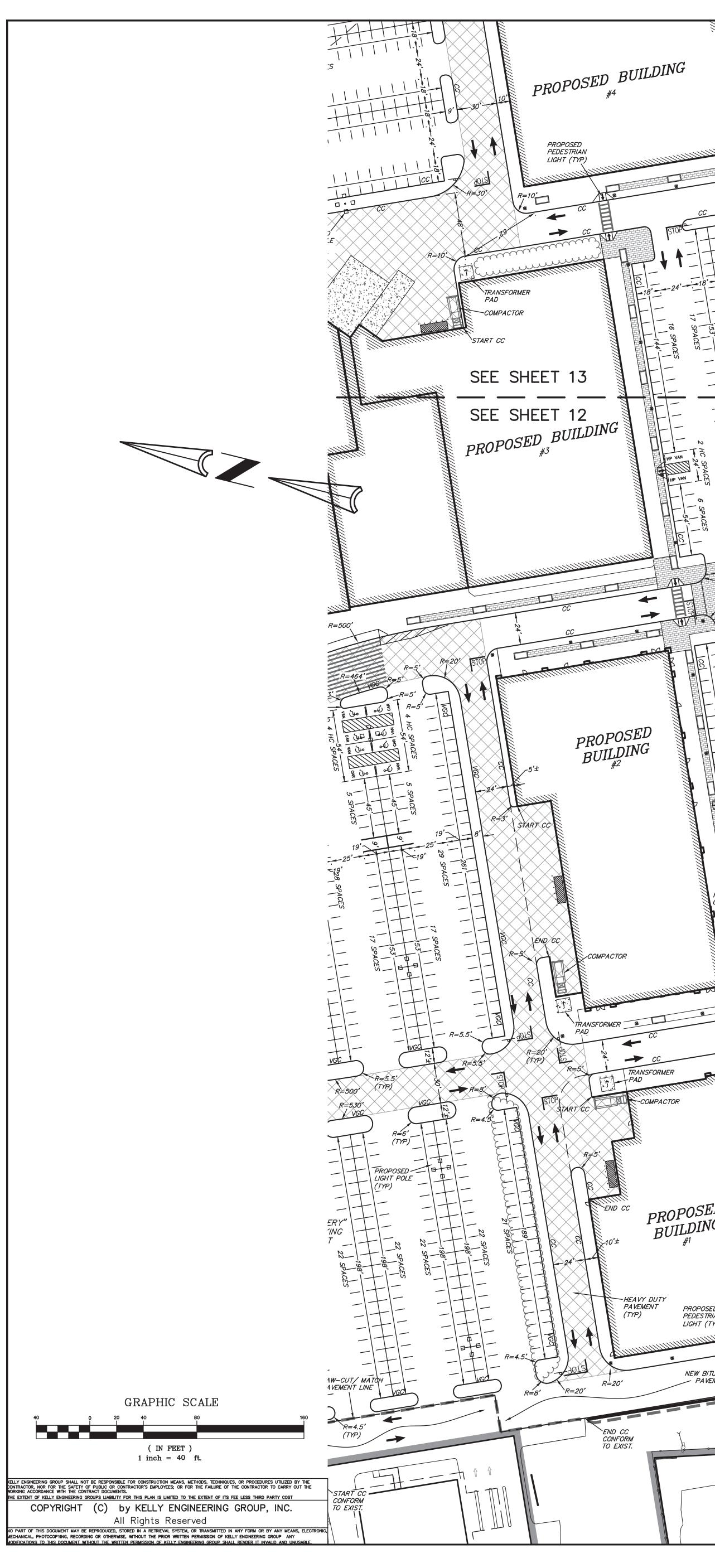
R=3″ (TYP) PROPOSED LIGHT POLE (TYP) ш PROPOSED PEDESTRIAN LIGHT (TYP) TCH SHEE FOR DETAILS IN \_\_\_\_\_THIS AREA SEE \_\_\_\_ \_\_\_LANDSCAPING PLANS ММ -SLOPED CONCRETE -CONFO R=30' R=2.5 PROPOSED RETAINING WALL WALL END CC CONFORM TO EXIST. R=100 STARI CONFORM DUMPSTER PAD SAW-CUT/ MATCH PAVEMENT LINE (TYP) EXI DAVID NOEL RY baud Noel Q. Engineering GRoup, Inc., email=dkelly@kellyemgo up.com, c=US Date: 2019.05.28 12:11:4: SHEET NO. 10 



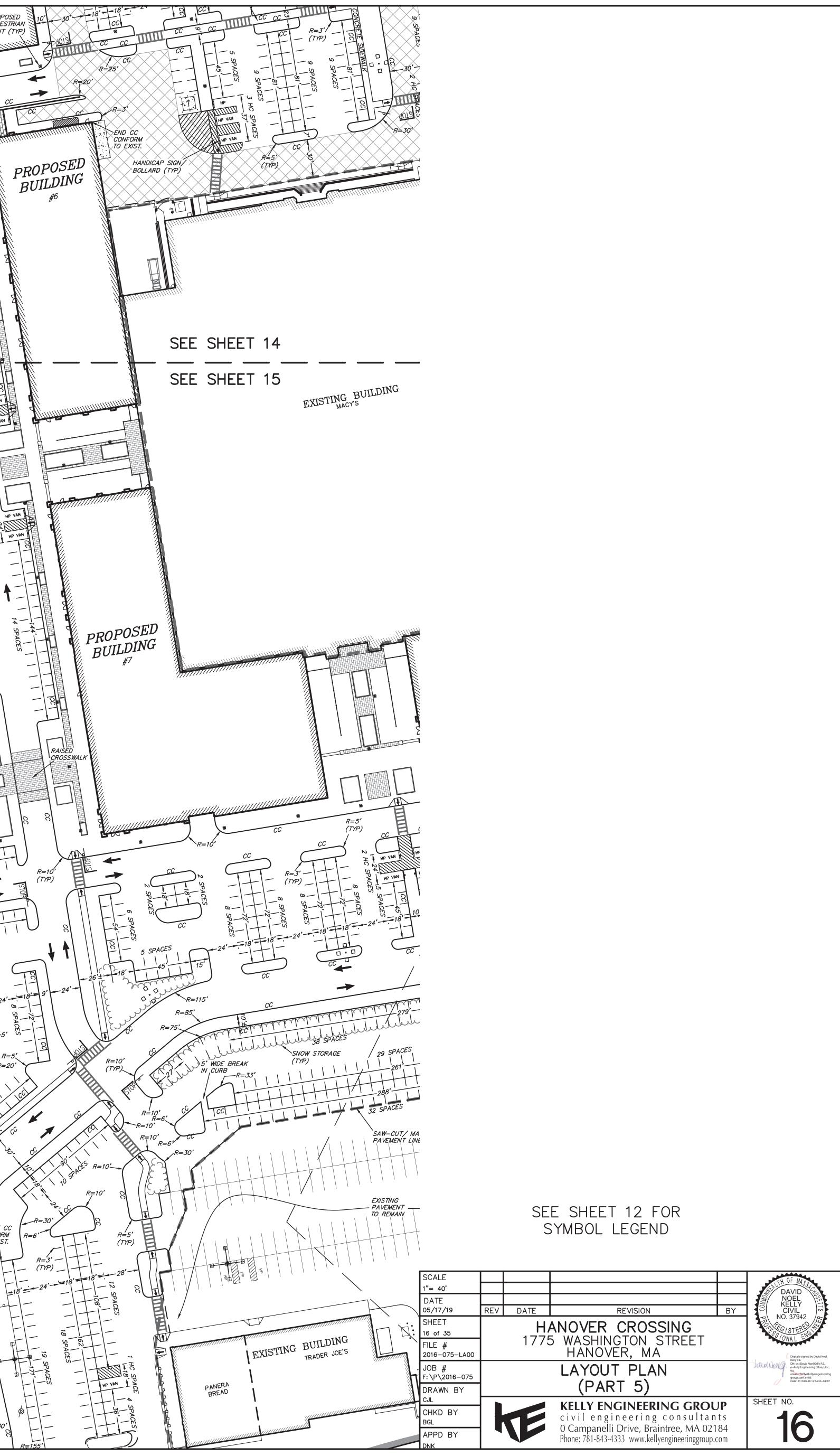


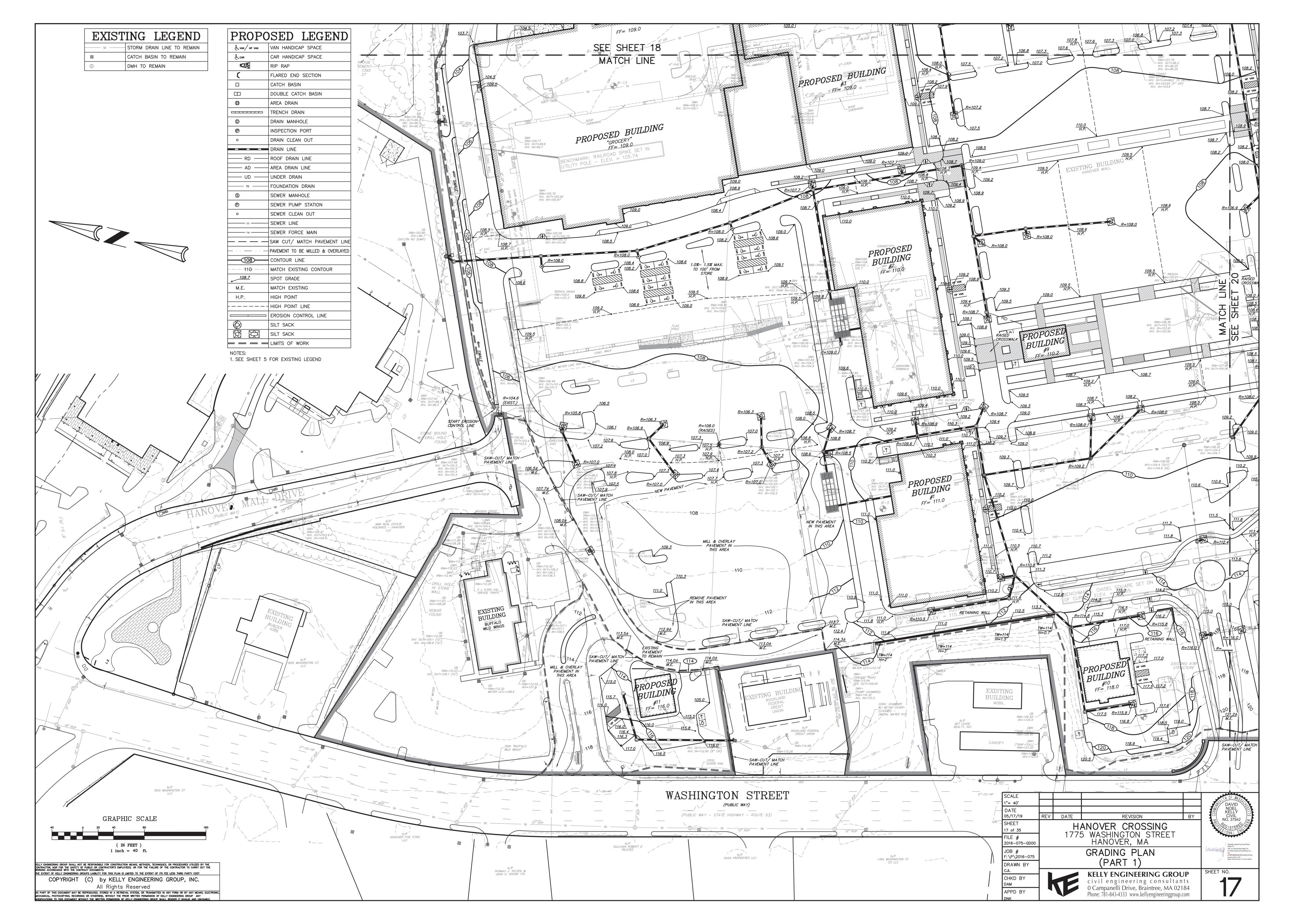
SEE SHEET 14 MATCH LINE EXISTING BUILDING R=5' (TYP) HP VA T HP VAN (TYP) HP VAN PROPOSED LIGHT POLE (TYP) PROPOSED BUILDING PROPOSED PEDESTRIAN LIGHT (TYP) ш SHE FOR DETAILS IN \_\_\_\_\_THIS AREA SEE \_\_\_\_ \_\_\_LANDSCAPING PLANS 20 SPACES SNOW STORAGE (TYP) SLOPED CONCRETE — STAMPEL CONCRE EXISTING --- PAVEMENT -TO, REMAIN STÀRT CC CONFORM TO EXIST. R=5' (TYP) RETAININ EXISTING BUILDING TRADER JOE'S PANERA BREAD END CĊ CONFORM TO EXIST. R=100 START -LIMITS OF WORK LINE (TYP) N/F SURENDER SINGH & RANDHAWA SUKHI TT CONFORM DUMPSTF 1. PAD START CO CONFORM TO EXIST. TO EXIST EXIST. SIGN EXIST. SIGN TYPE:D— SAW-CUT/ MATCH PAVEMENT LINE (TYP) EX EXISTING LIGHT SIGNAL >(TYP) 0 **≯** ₹ ٦ 1 GRAPHIC SCALE KELLY ENGINEERING GROUP SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTOR'S EMPLOYEES; OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORKING ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE EXTENT OF KELLY ENGINEERING GROUPS LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COST 20 COPYRIGHT (C) by KELLY ENGINEERING GROUP, INC. All Rights Reserved no part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of kelly engineering group any modifications to this document without the written permission of kelly engineering group shall render it invalid and unusable. ( IN FEET ) 1 inch = 40 ft.

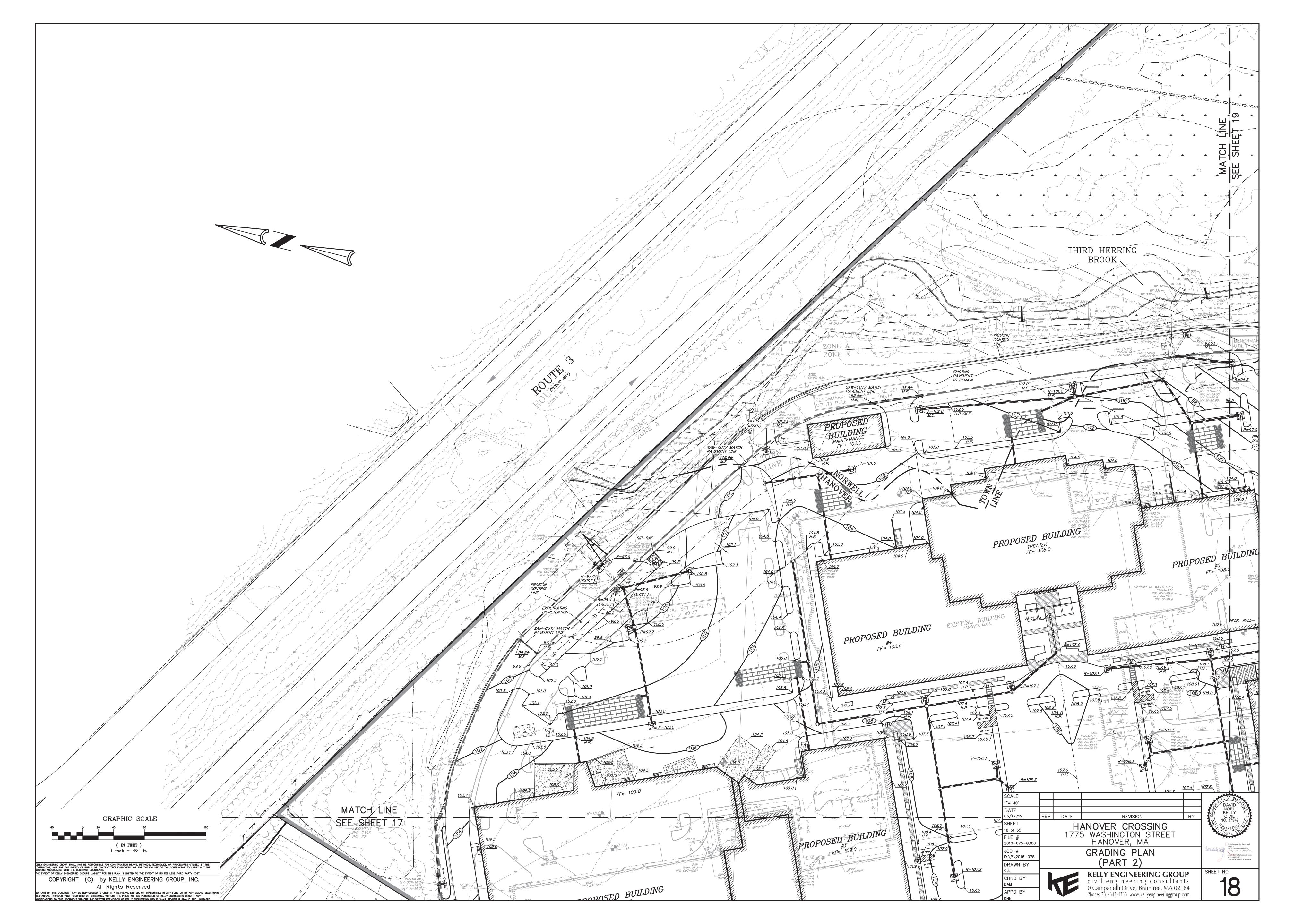




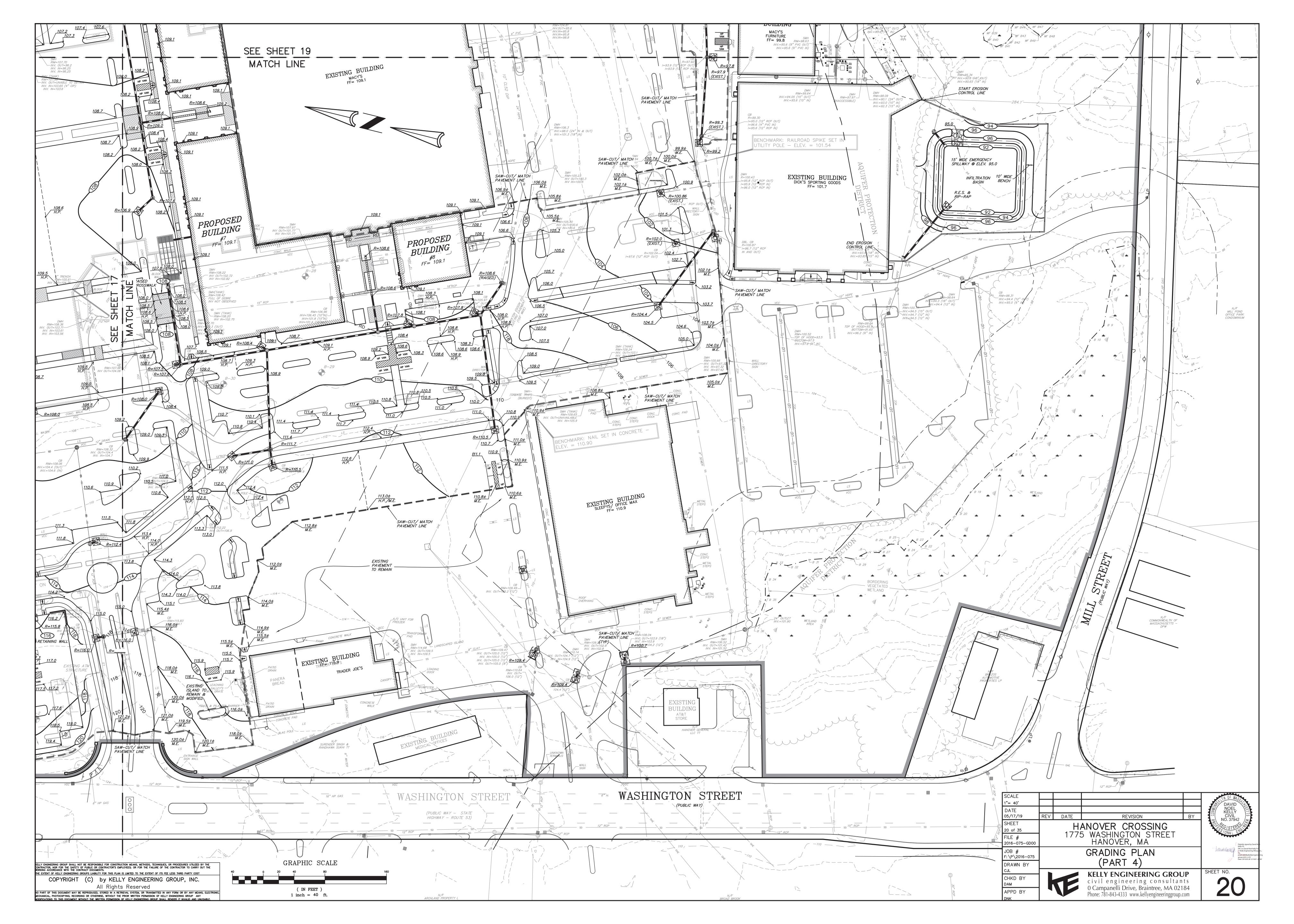
PROPOSED PEDESTRIAN LIGHT (TYP, ..... HP VAN HP VAN HP VAN HP VAN '37'SPACES 37 SPACES PROPOSED LIGHT POLE (TYP) 37 SPACES HIP VAN HP VAN PROPOSED PEDESTRIAN LIGHT (TYP) F DUMPSTER PROPOSED -FOR DETAILS IN THIS AREA SEE LANDSCAPING PLANS RAISED CROSSWALK TRANSFORMER PAD 37 SPACES 5' WIDE BREAK -R=1Ó' (TYP) TRANSFORMER 7 SPACES TRANSFORMER (TYP) COMPACTOR (TYP) HP VAN HP VAN SPACES PROPOSED BUILDING SLOPED CONCRETE R=50' (TYP) STAMPED CONCRETE SIGN HEAVY DUTY PAVEMENT (TYP) PROPOSED PEDESTRIAN LIGHT (TYP) EXIS 0000 R=20' R=30' R=2.5' NEW BITUMINOUS // // PAVEMENT PROPOSED RETAINING WALL R=15' PROPOSED RETAINING WALL LIMITS OF WORK LINE (TYP) `END CC CONFORM TO EXIST. VPROPOSEL BUILDING END CC R=125' CONFORM TO EXIST. R=100' R = 1.301CC









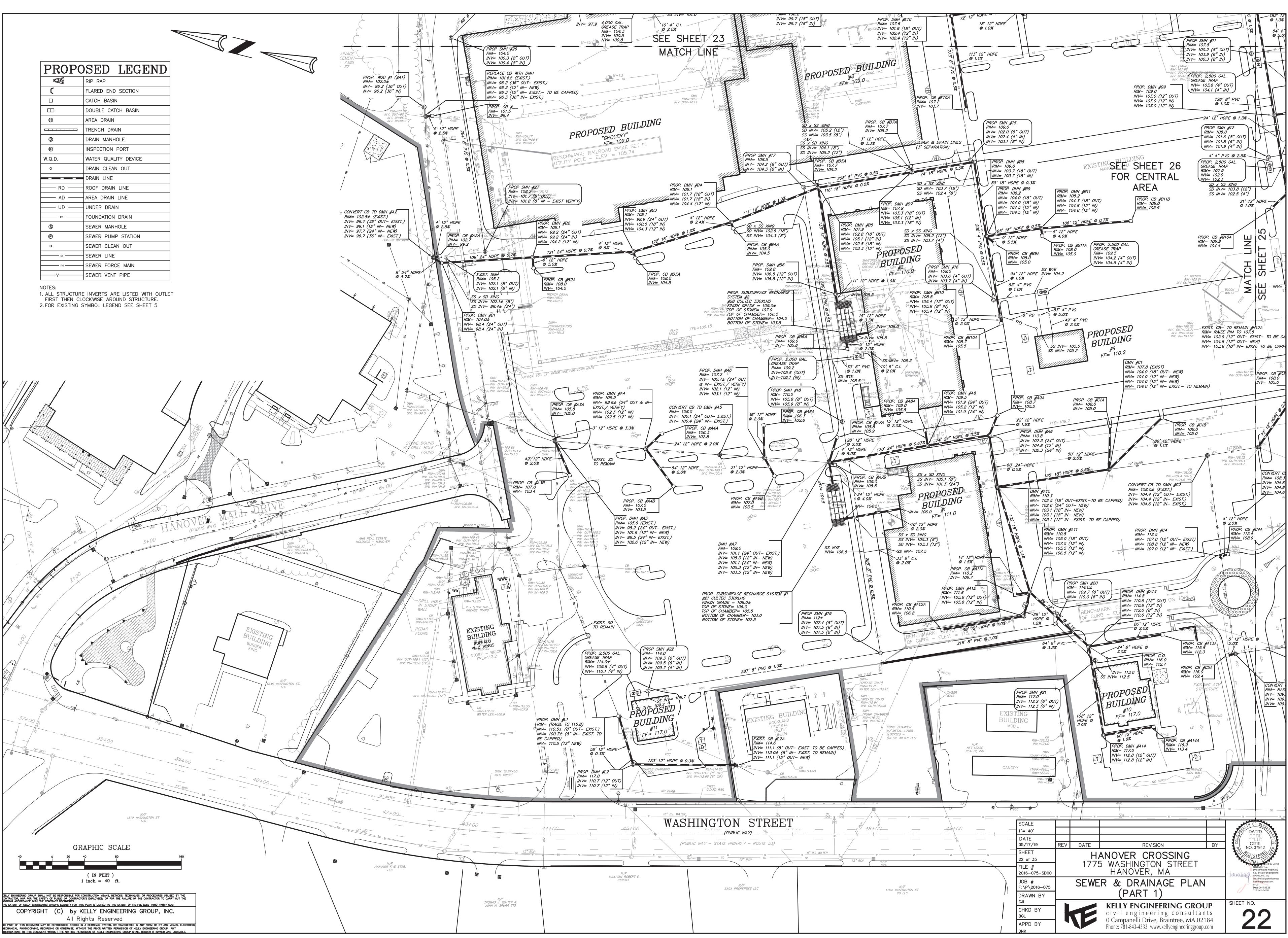


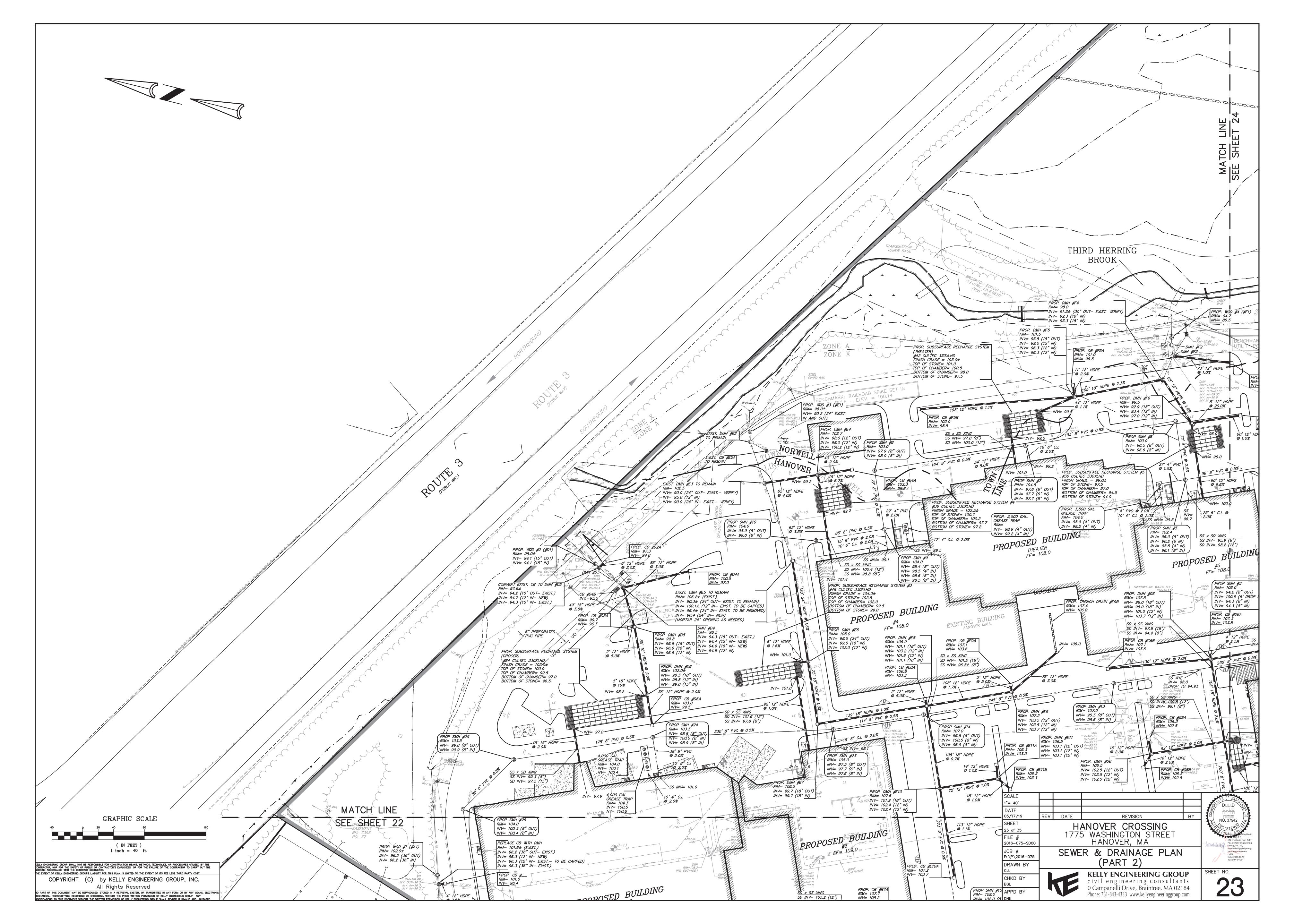


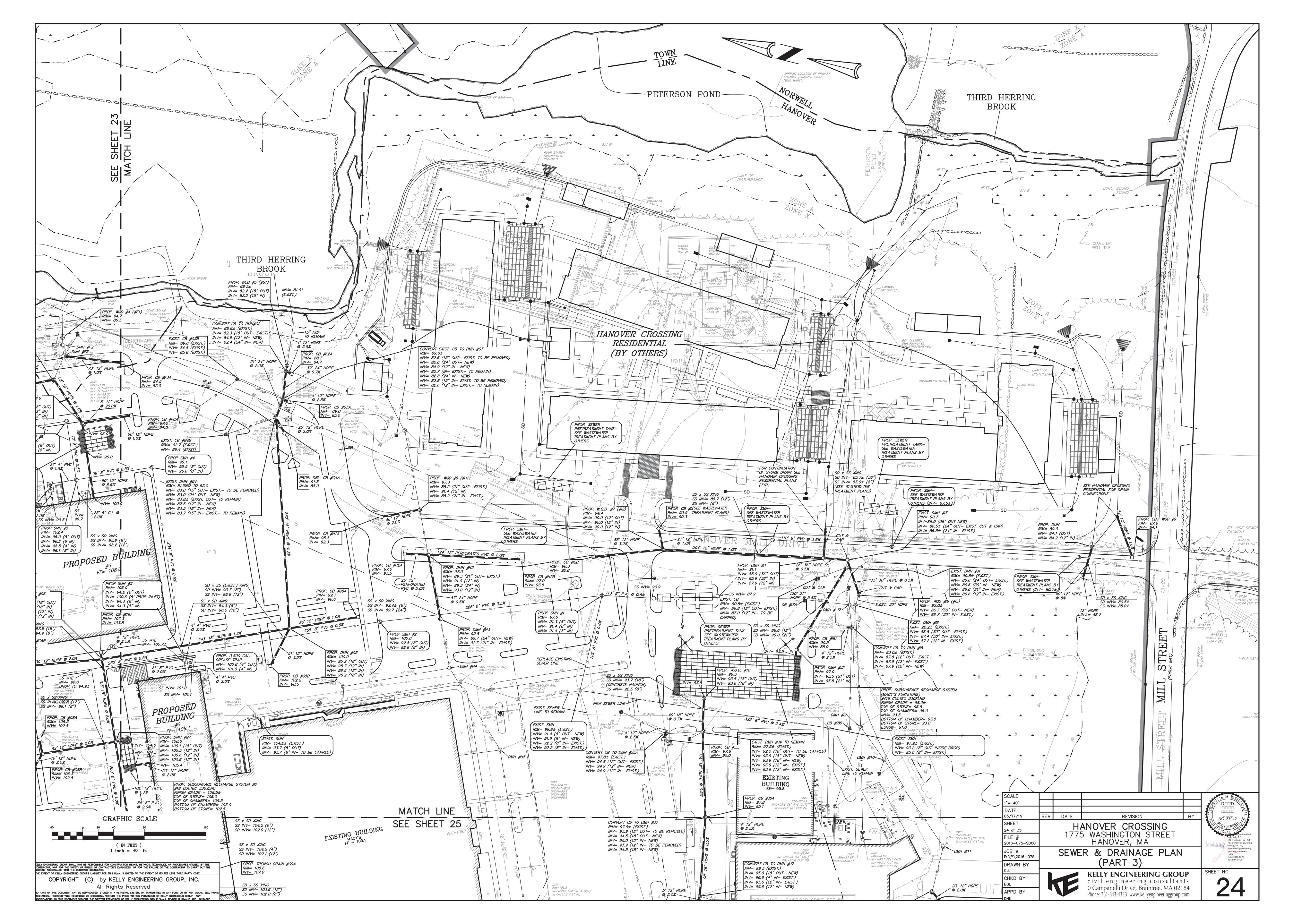


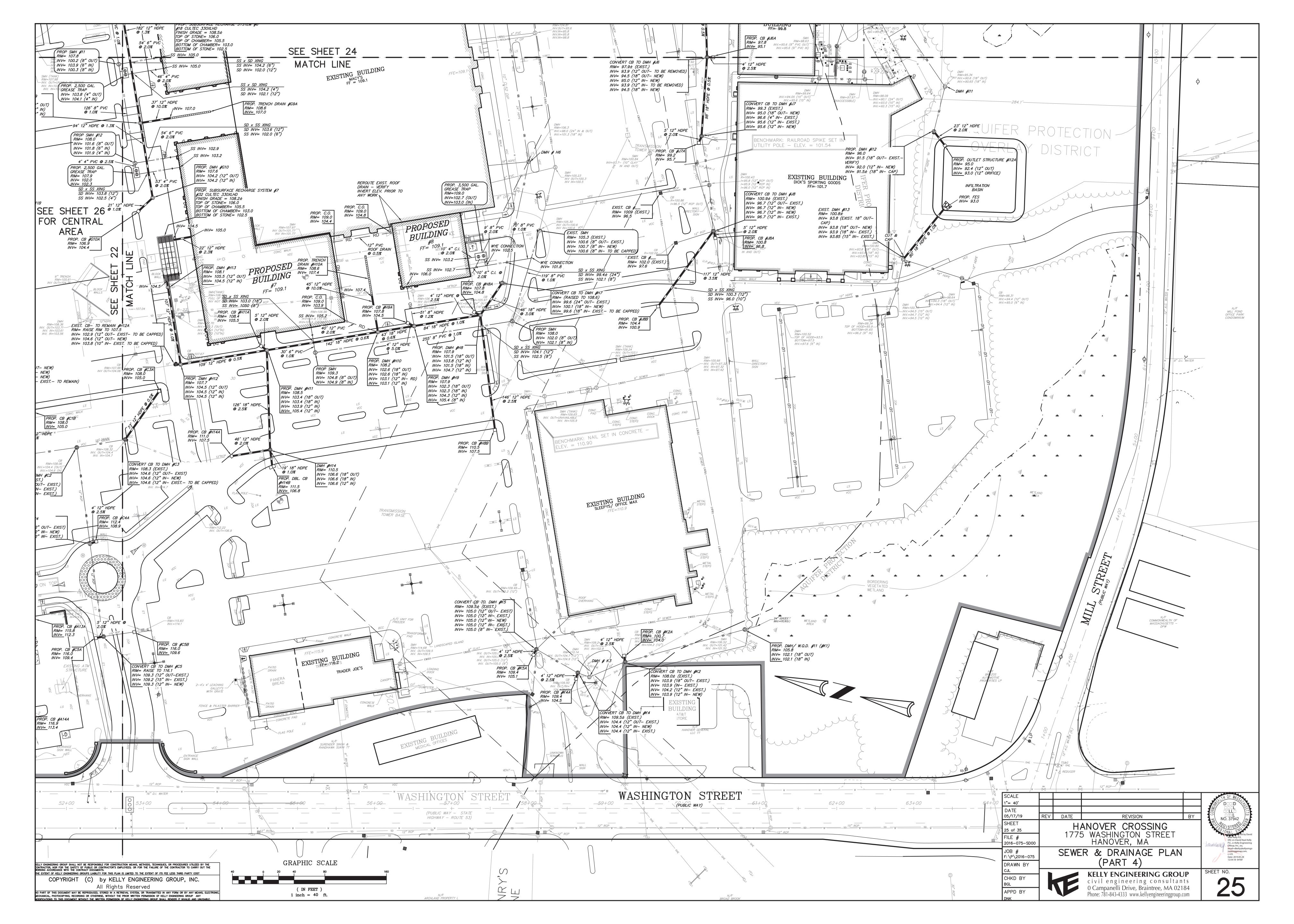
PROPOSED LEGEND				
	RIP RAP			
C	FLARED END SECTION			
	CATCH BASIN			
	DOUBLE CATCH BASIN			
Φ	AREA DRAIN			
	TRENCH DRAIN			
Ø	DRAIN MANHOLE			
P	INSPECTION PORT			
W.Q.D.	WATER QUALITY DEVICE			
0	DRAIN CLEAN OUT			
	DRAIN LINE			
RD	ROOF DRAIN LINE			
AD	AREA DRAIN LINE			
UD	UNDER DRAIN			
FD	FOUNDATION DRAIN			
S	SEWER MANHOLE			
®	SEWER PUMP STATION			
0	SEWER CLEAN OUT			
ss	SEWER LINE			
	SEWER FORCE MAIN			
FM	SEWER FORCE MAIN			

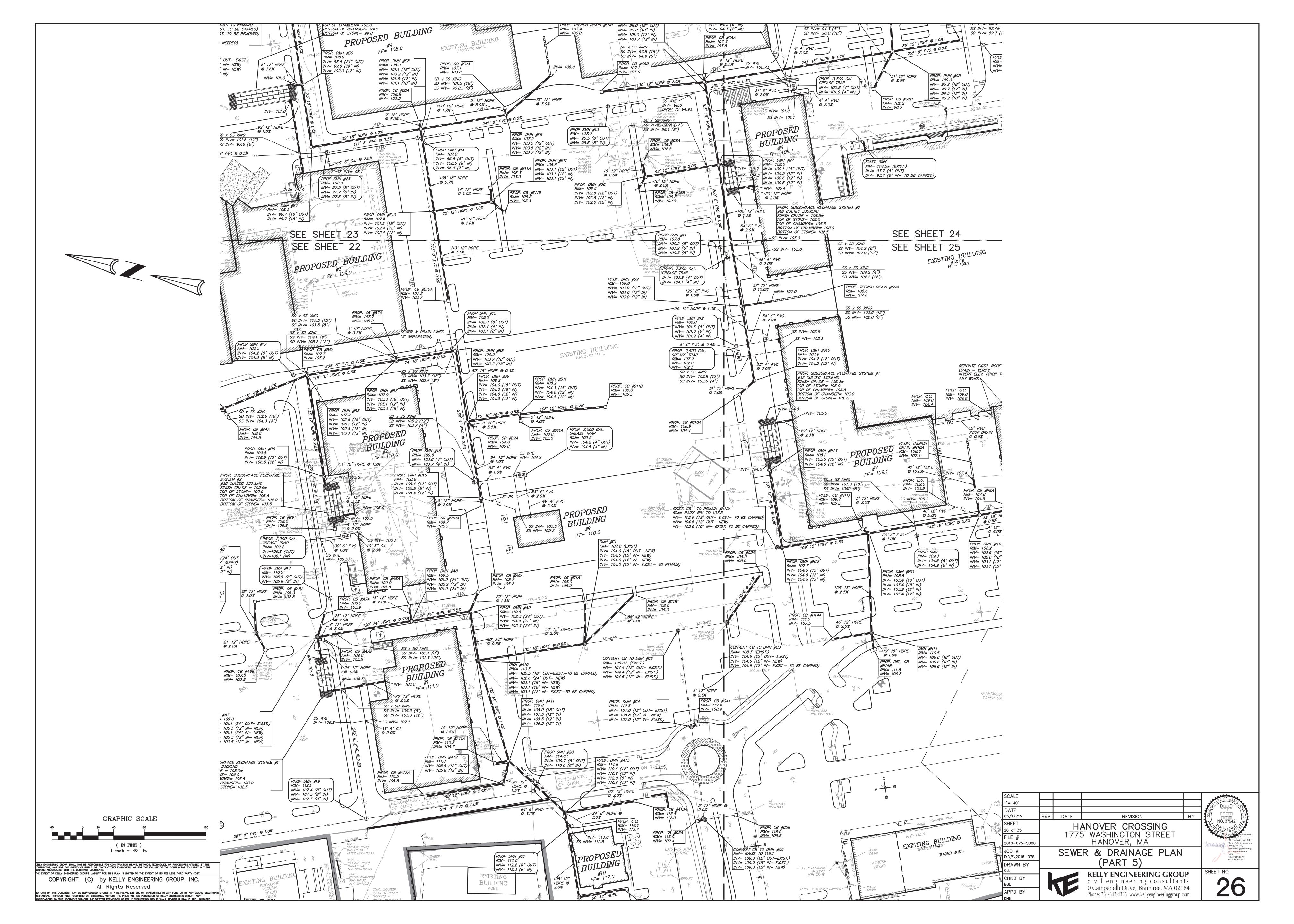
FIRST THEN CLOCKWISE AROUND STRUCTURE.

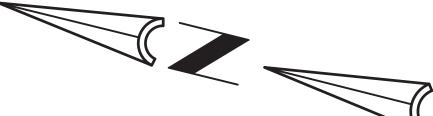






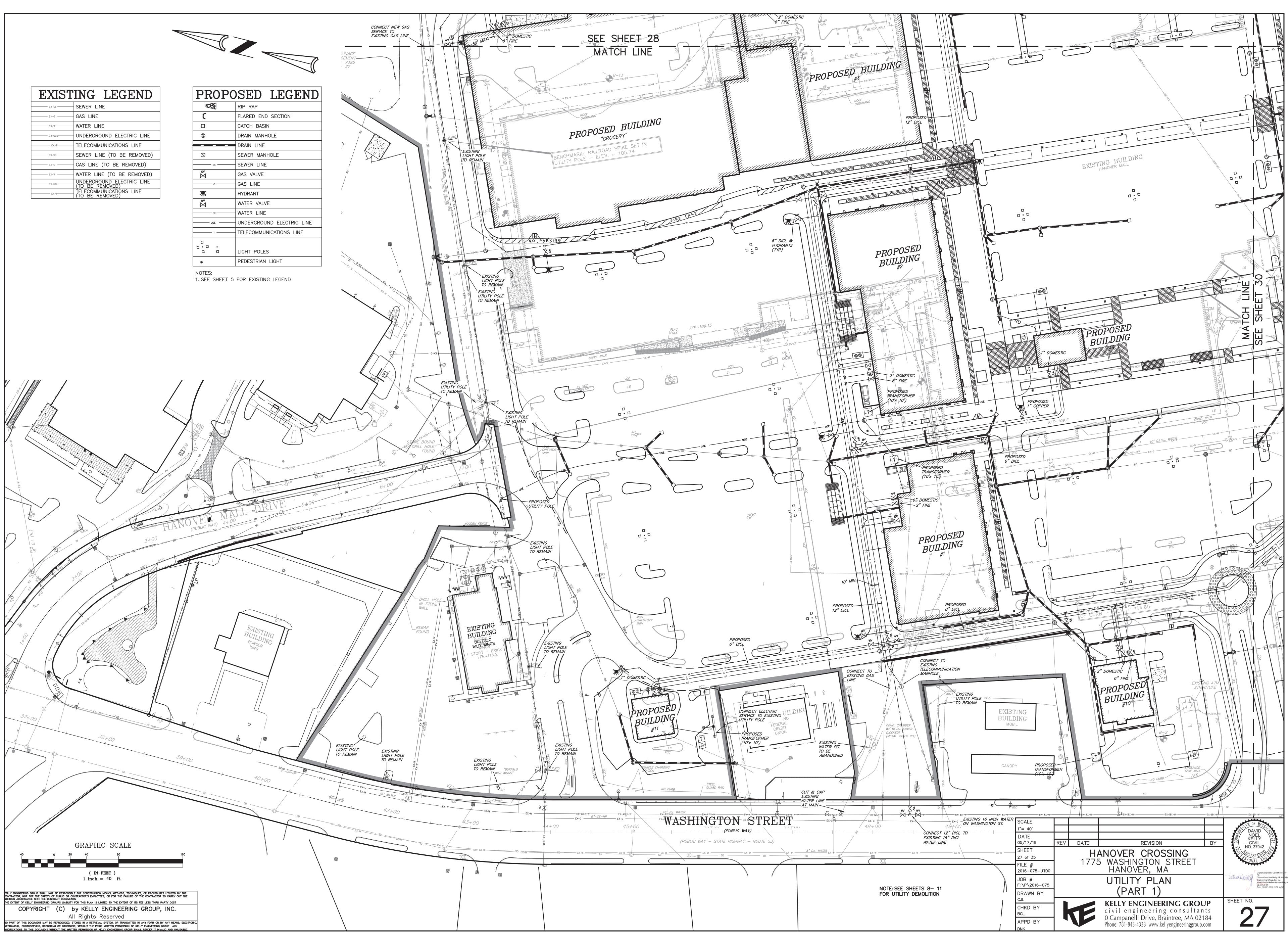


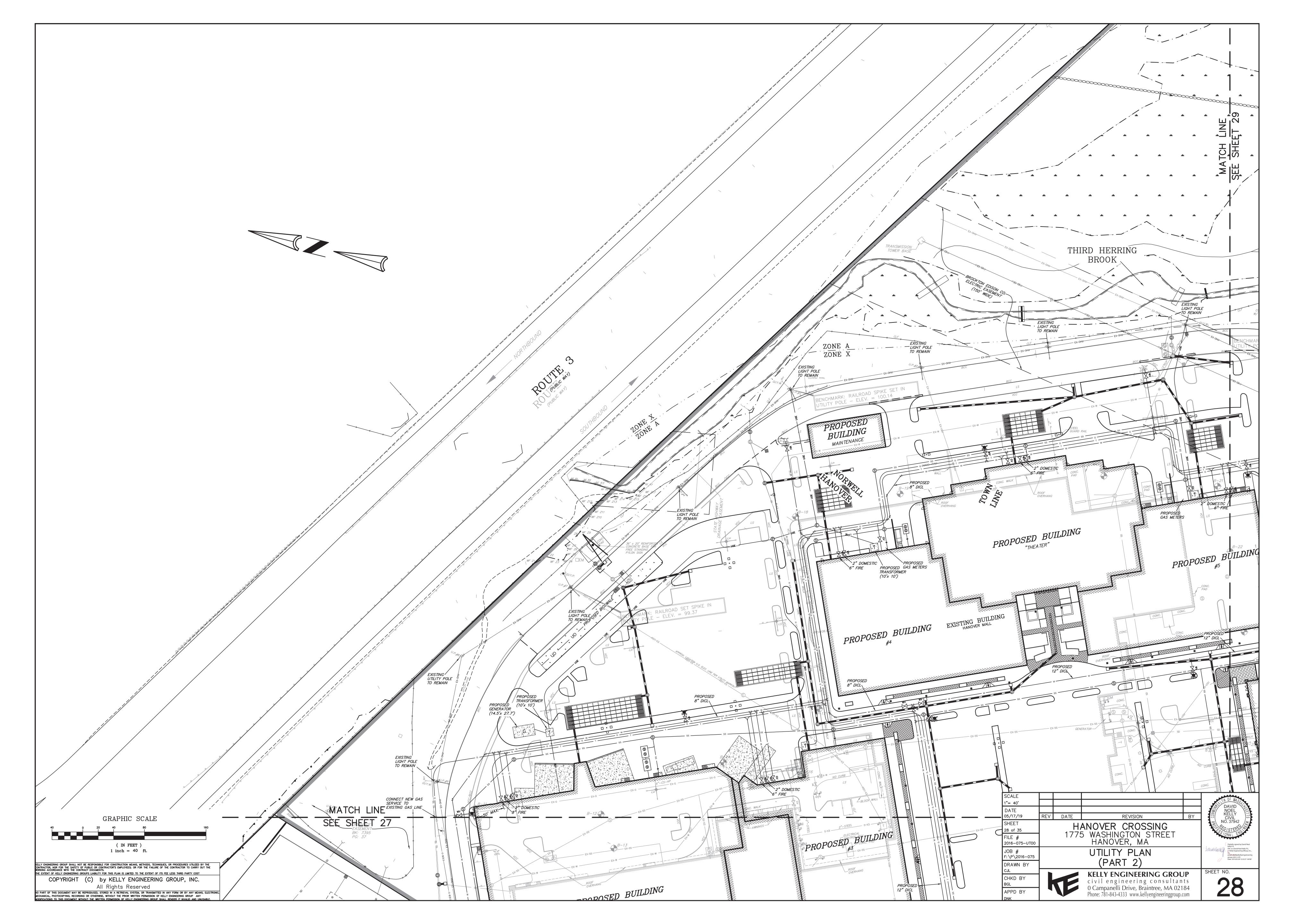


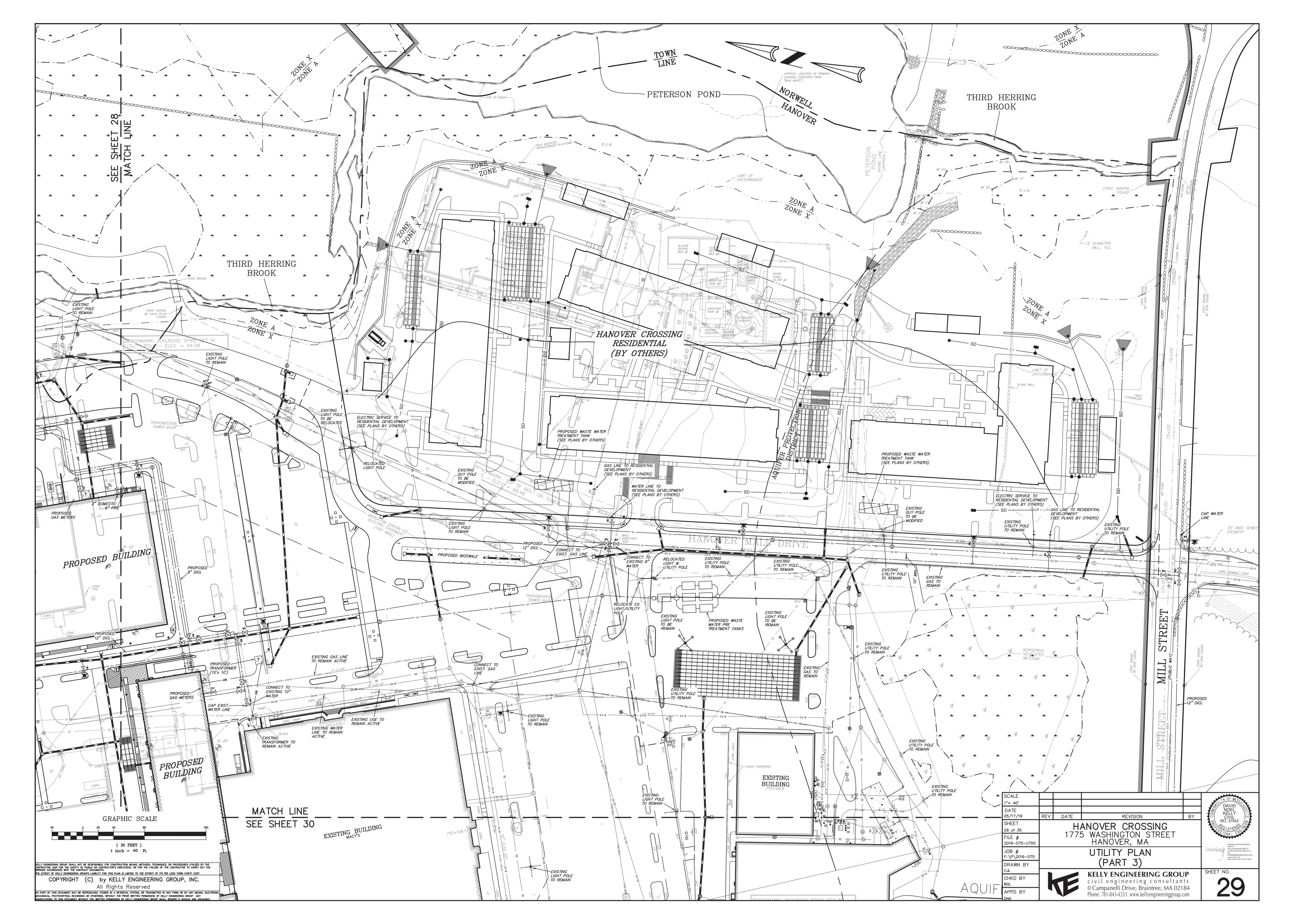


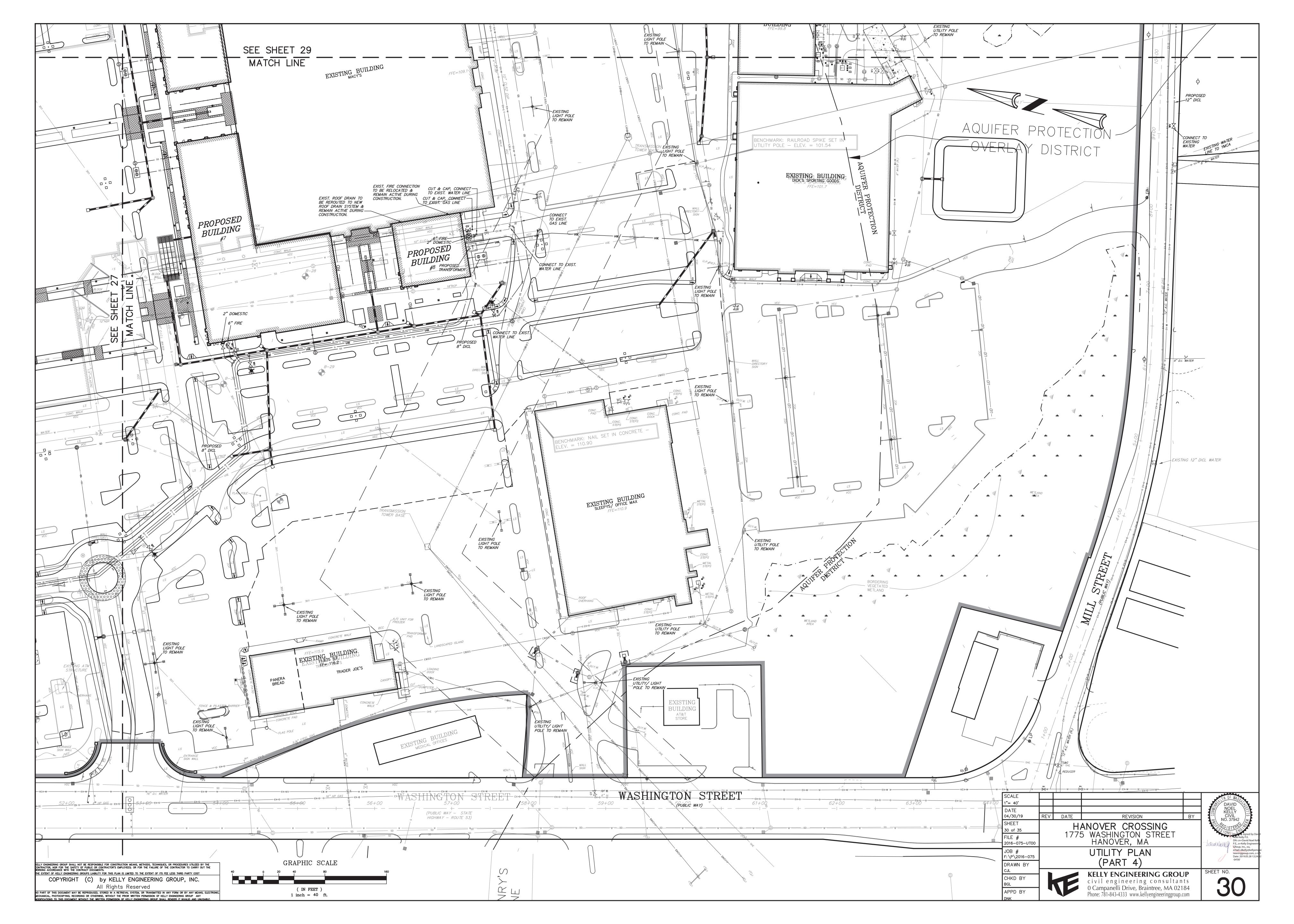
EXIST	ING LEGEND
EX-SS	SEWER LINE
EX-G	GAS LINE
EX-W	WATER LINE
EX-UGU	UNDERGROUND ELECTRIC LINE
EX <del>-T</del>	TELECOMMUNICATIONS LINE
EX-SS	SEWER LINE (TO BE REMOVED)
EX-G	GAS LINE (TO BE REMOVED)
EX-W	WATER LINE (TO BE REMOVED)
EX-UGU	UNDERGROUND ELECTRIC LINE (TO BE REMOVED)
EX <del>~T</del>	TELECOMMUNICATIONS LINE (TO BE REMOVED)

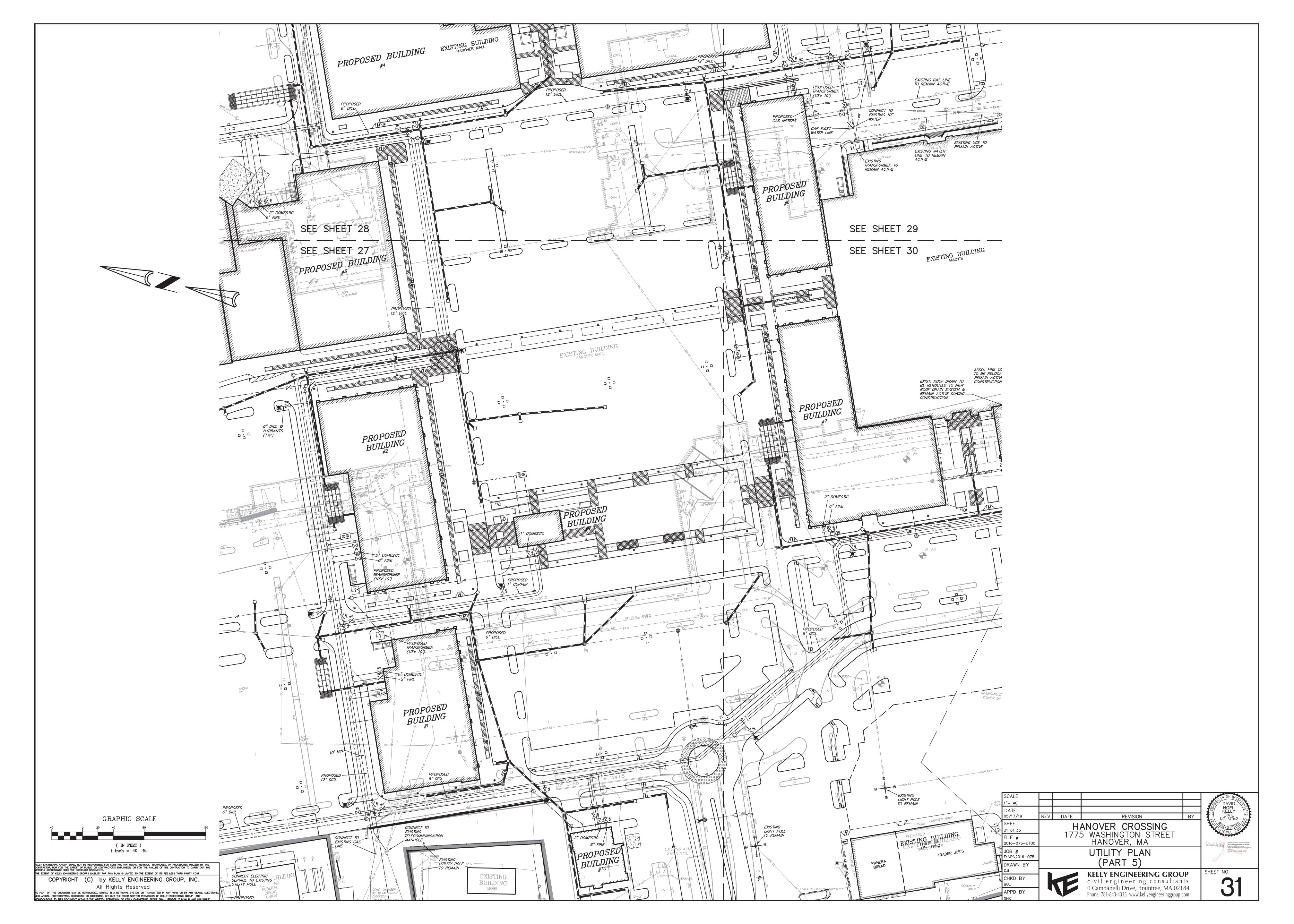
PROPC	SED LEGEND		
	RIP RAP		
(	FLARED END SECTION		
	CATCH BASIN		
D	DRAIN MANHOLE		
	DRAIN LINE		
S	SEWER MANHOLE		
ss	SEWER LINE		
GV	GAS VALVE		
G	GAS LINE		
*	HYDRANT		
×	WATER VALVE		
w	WATER LINE		
UGE	UNDERGROUND ELECTRIC LINE		
тт	TELECOMMUNICATIONS LINE		
	LIGHT POLES		
<b>1</b>	PEDESTRIAN LIGHT		

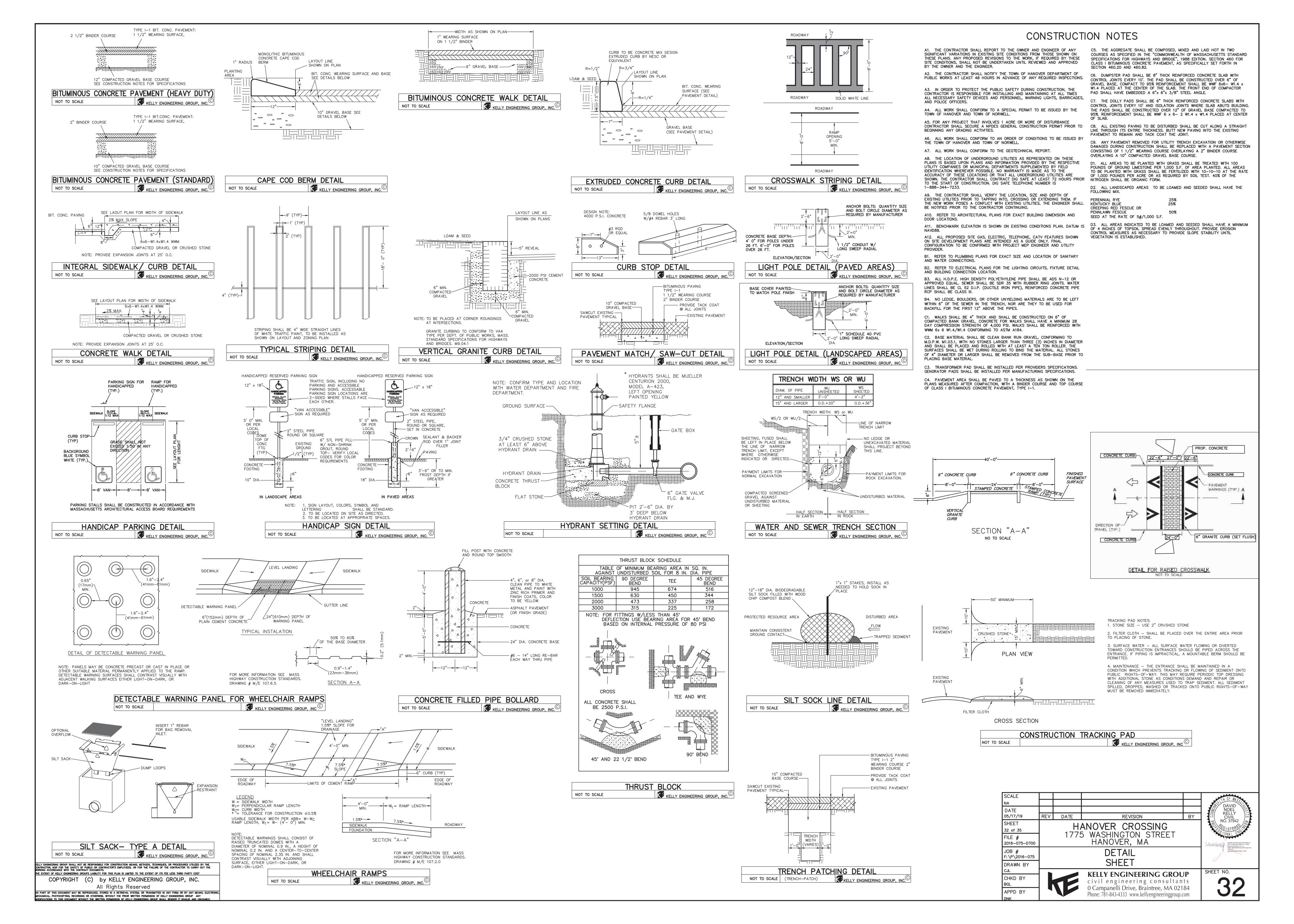


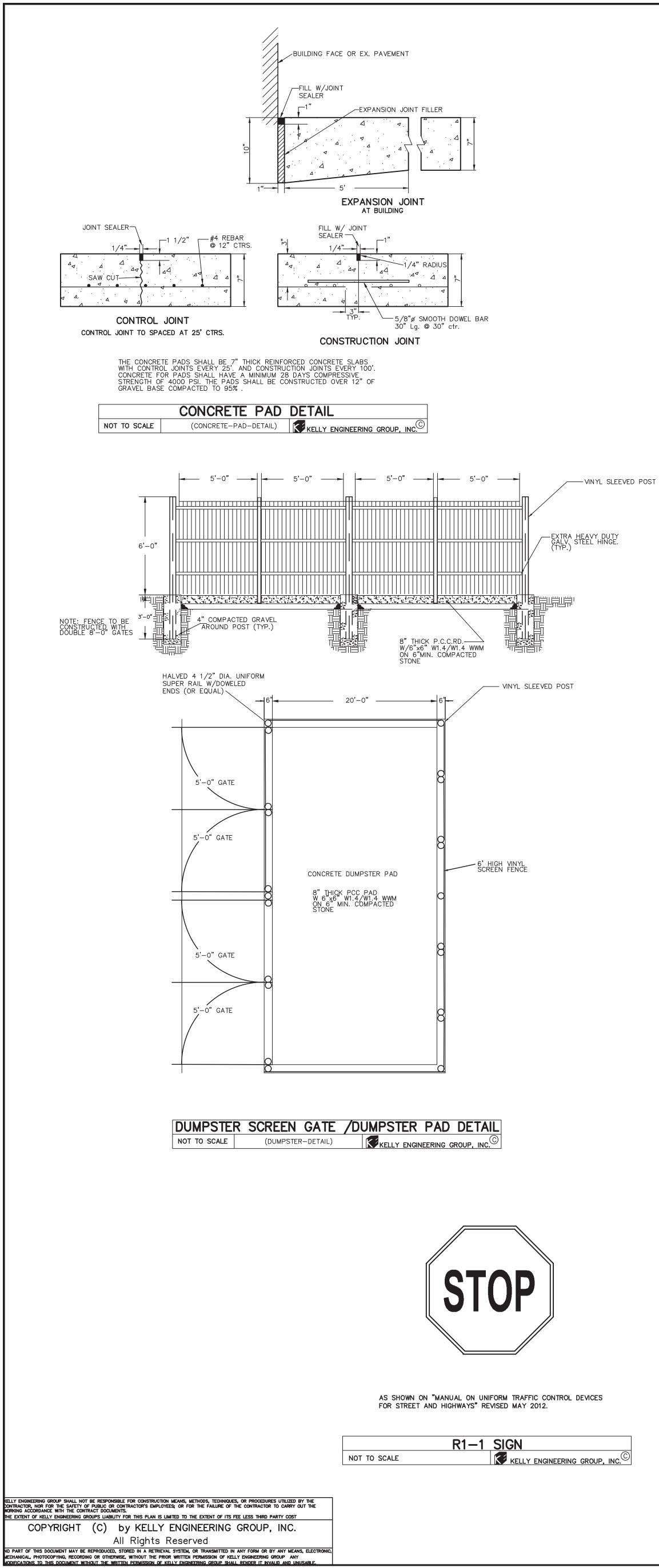


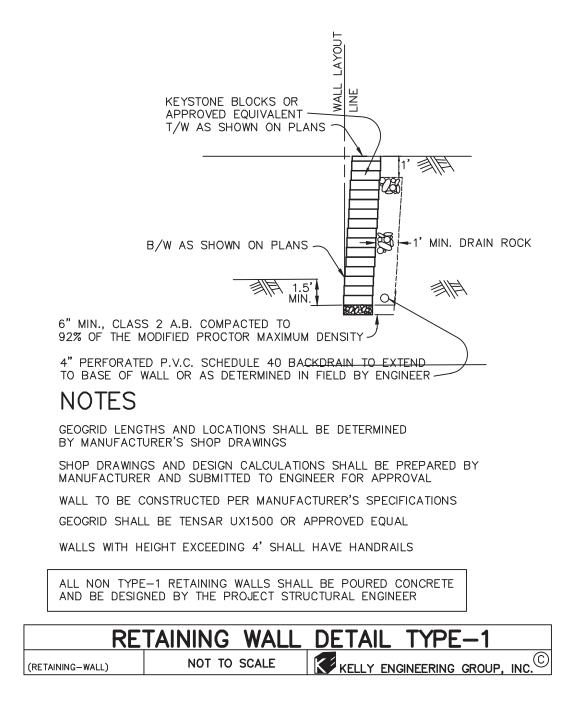


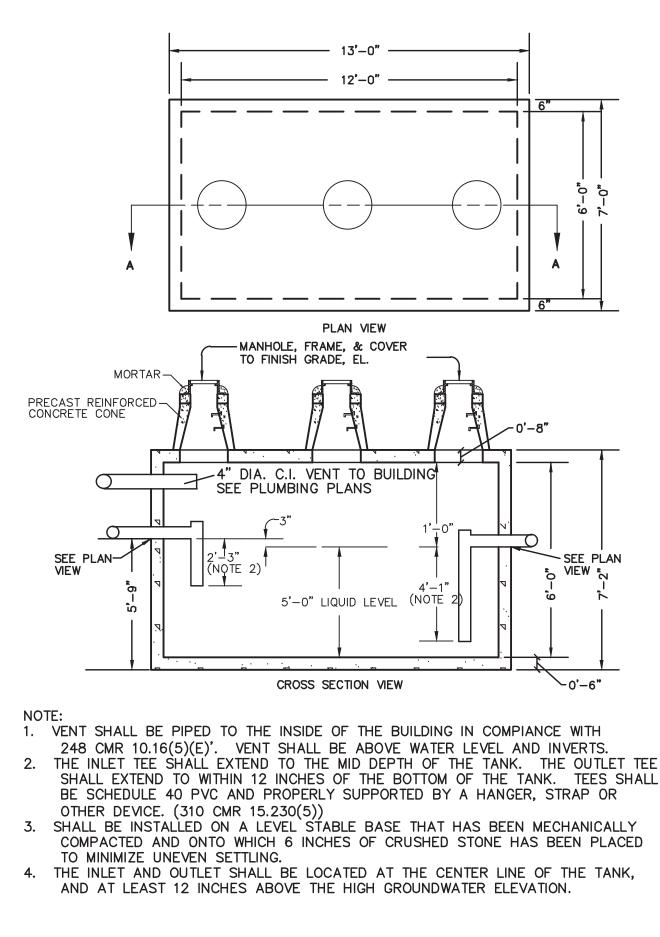


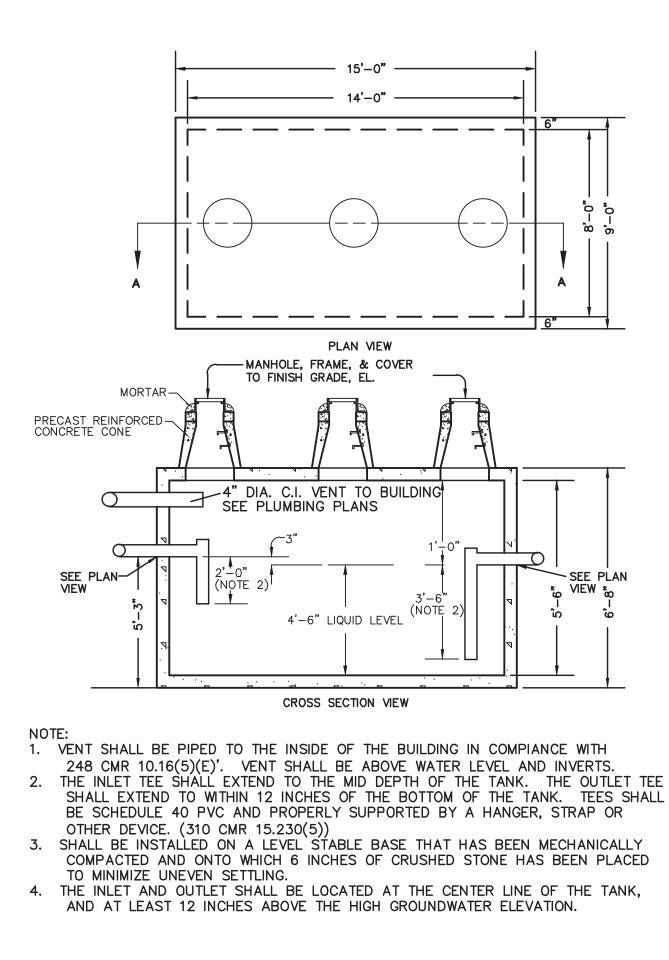












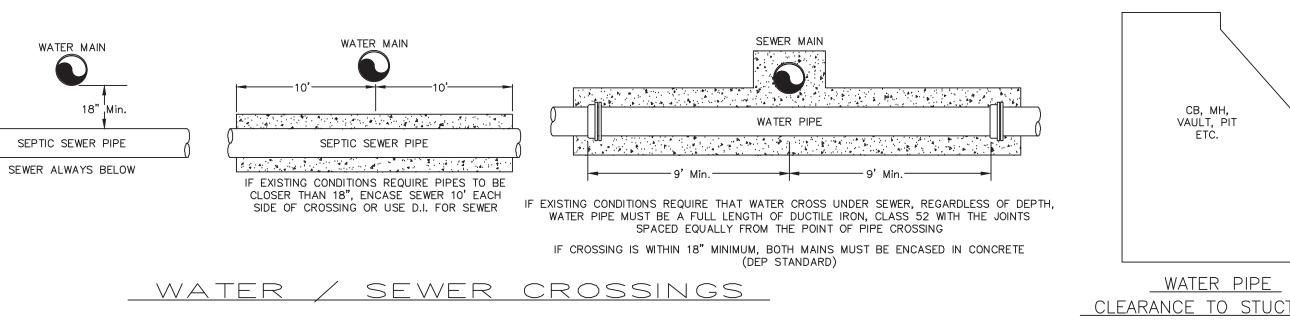
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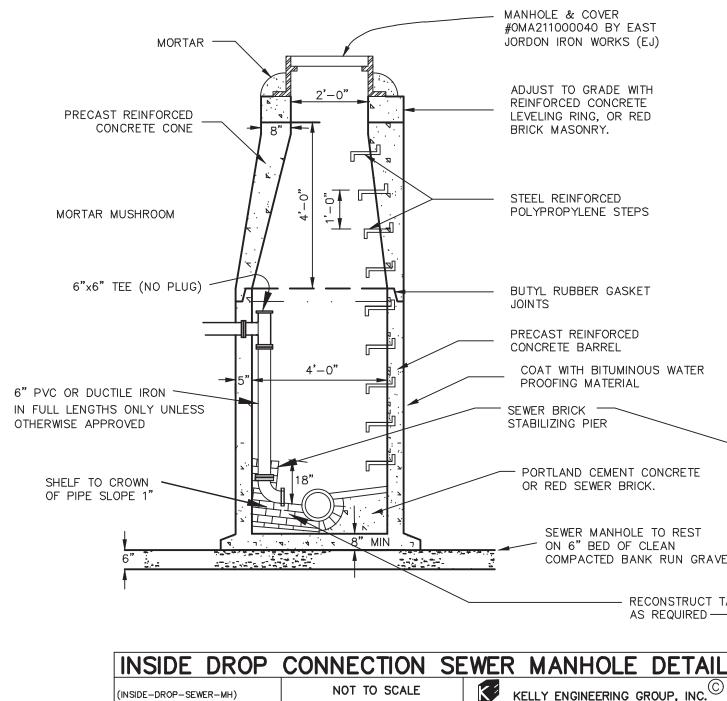
SEPTIC SEWER PIPE

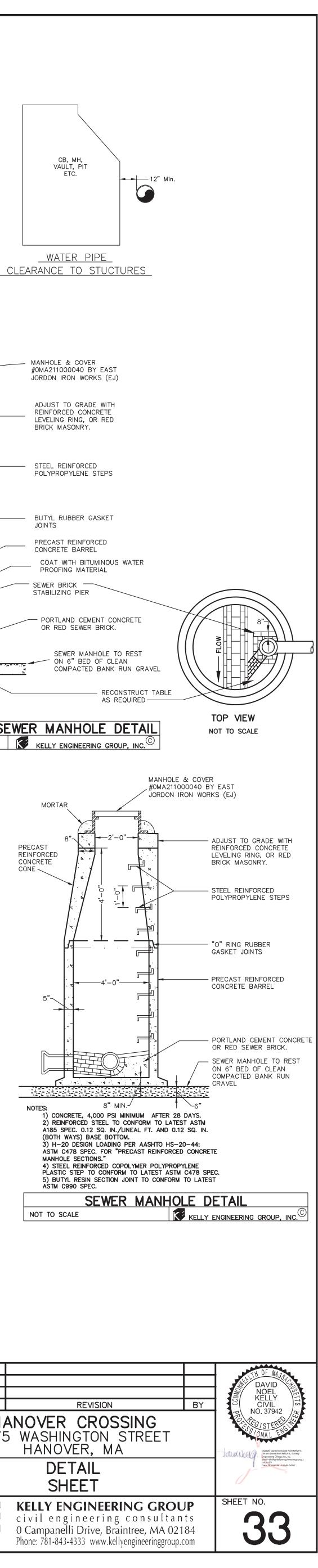
18" Mir

2,50	0 GALLONS	PRECAST	GREASE TRAP
NOT TO SCALE			KELLY ENGINEERING GROUP, INC

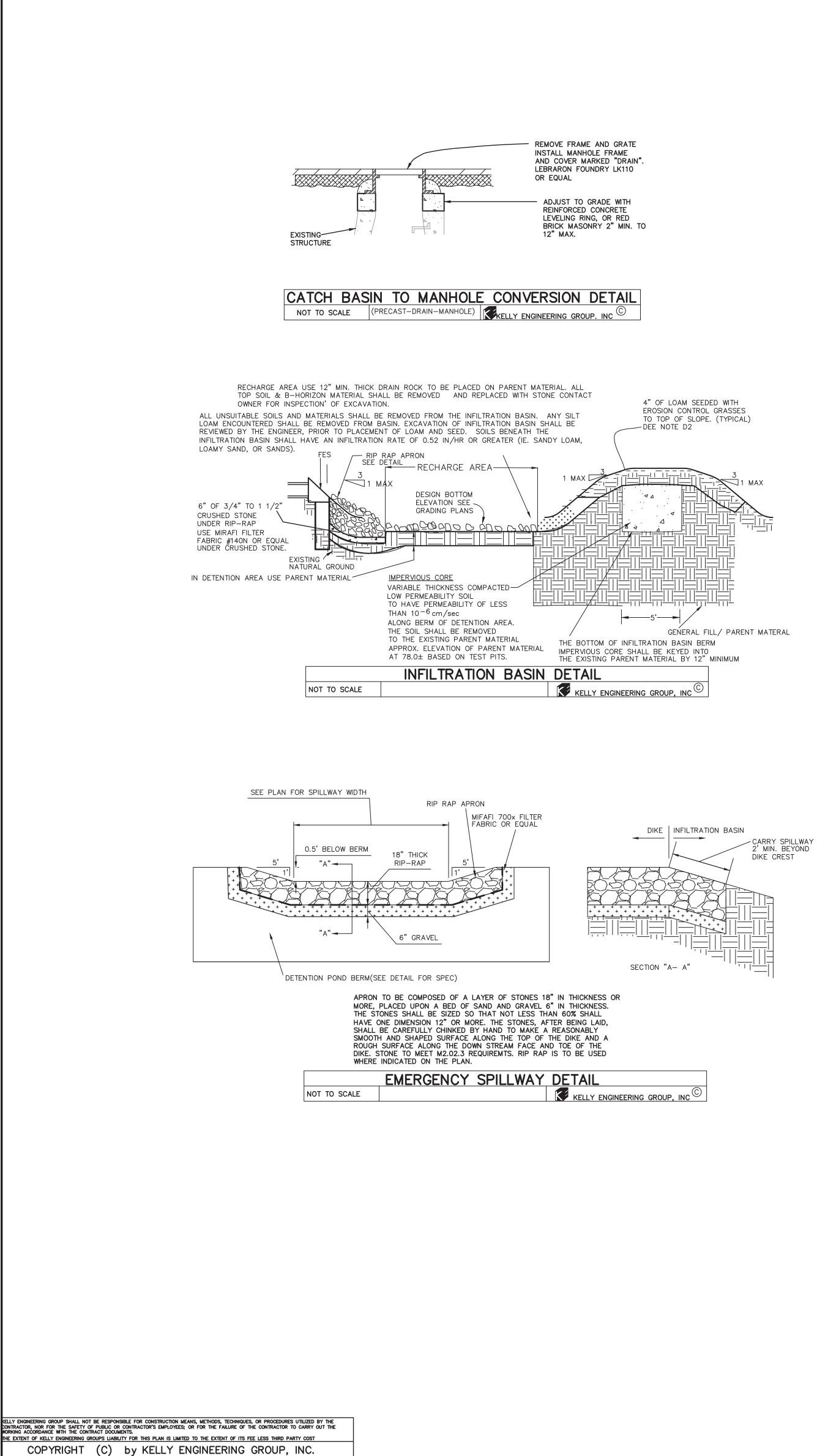




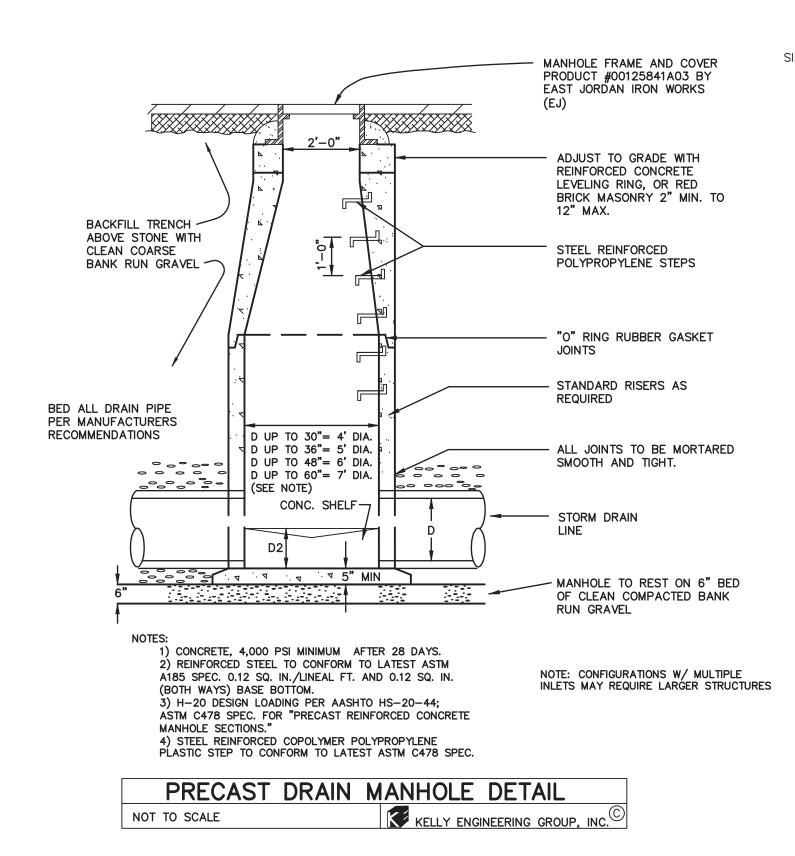


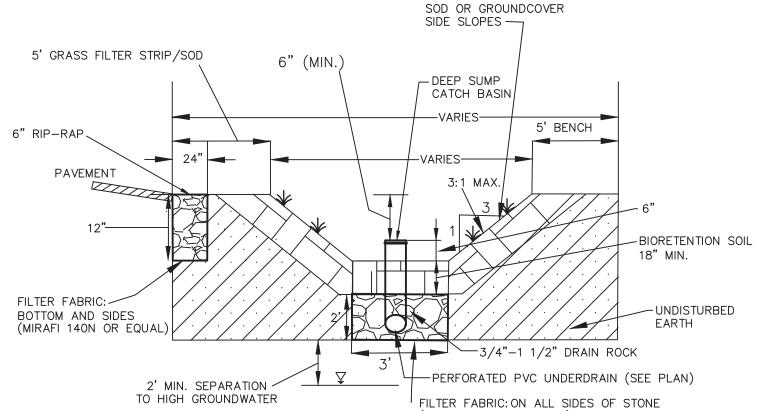


SCALE				
NA				
DATE				
05/17/19	REV	DATE	REVISION	
SHEET 33 of 35	HANOVER CROSSIN 1775 WASHINGTON STE HANOVER, MA			
FILE # 2016-075-DT00				
JOB			DETAIL	
DRAWN BY	SHEET KELLY ENGINEERING			
CJL				
CHKD BY bgl		F	civil engineering co	
APPD BY DNK			0 Campanelli Drive, Braintre Phone: 781-843-4333 www.kellyengir	



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CONSTRUCTION:

1. DURING CONSTRUCTION, AVOID EXCESSIVELY COMPACTING SOILS AROUND THE BIORETENTION AREAS AND ACCUMULATING SILT AROUND THE DRAIN FIELD. TO MINIMIZE SEDIMENT LOADING IN THE TREATMENT AREA, DIRECT RUNOFF TO THE BIORETENTION AREA ONLY FROM AREAS THAT ARE STABILIZED; ALWAYS DIVERT CONSTRUCTION RUNOFF ELSEWHERE. 2. TO AVOID COMPACTION OF THE PARENT MATERIAL, WORK FROM THE EDGE OF THE AREA PROPOSED AS THE LOCATION OF AN EXFILTRATING BIORETENTION CELL. NEVER DIRECT RUNOFF TO THE CELL UNTIL THE CELL AND THE CONTRIBUTING DRAINAGE AREAS ARE FULLY STABILIZED.

3. PLACE PLANTING SOILS IN 1-FOOT TO 2-FOOT LIFTS AND COMPACT WITH MINIMAL PRESSURE UNTIL DESIRED ELEVATION IS REACHED. BIORETENTION SOIL SHALL BE PLACED AND GRADED USING LOW GROUND-CONTACT PRESSURE EQUIPMENT.

BIORETENTION SOIL MIX:

1. BIORETENTION SOIL MIX SHOULD BE A MIXTURE OF 40% SAND, 20-30% TOPSOIL, AND 30-40% COMPOST. 2. THE SOIL MIX MUST BE UNIFORM, FREE OF STONES, STUMPS, ROOTS OR SIMILAR OBJECTS LARGER THAN 2-INCHES. THE CLAY CONTENT SHALL NOT EXCEEDING 5%.

3. SOIL PH SHOULD BE BETWEEN 5.5-6.5. 4. SOILS SHOULD BE 1.5%-3% ORGANIC CONTENT AND A MAXIMUM 500 ppm CONCENTRATION OF SOLUBLE SALTS.

5. THE SAND COMPONENT SHOULD BE GRAVELLY SAND THAT MEETS ASTM D 422 SIEVE SIZE PERCENT PASSING 2-INCH

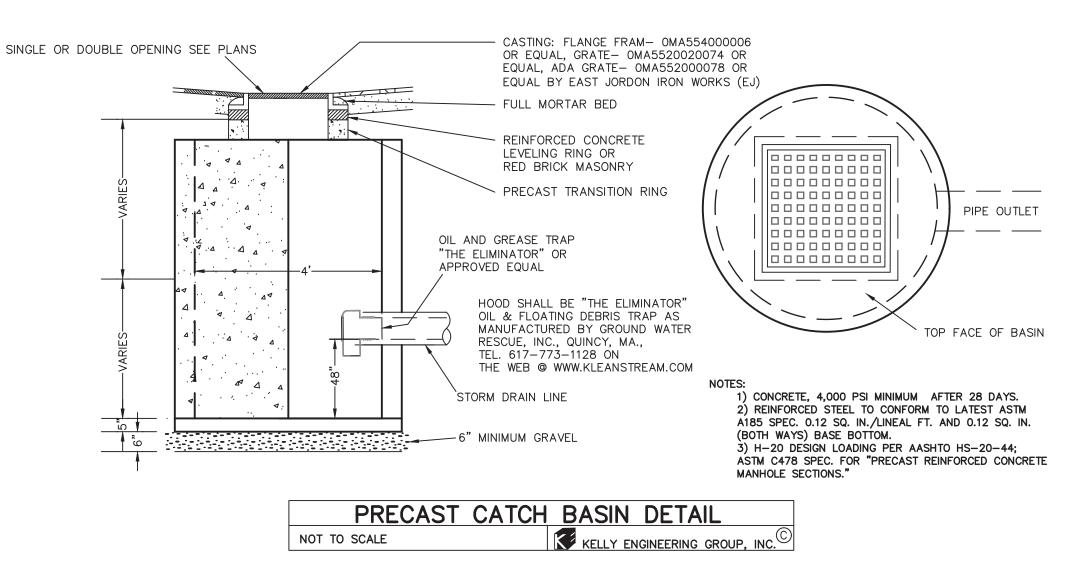
3/4-INCH 70–100 1/4-INCH 50-80

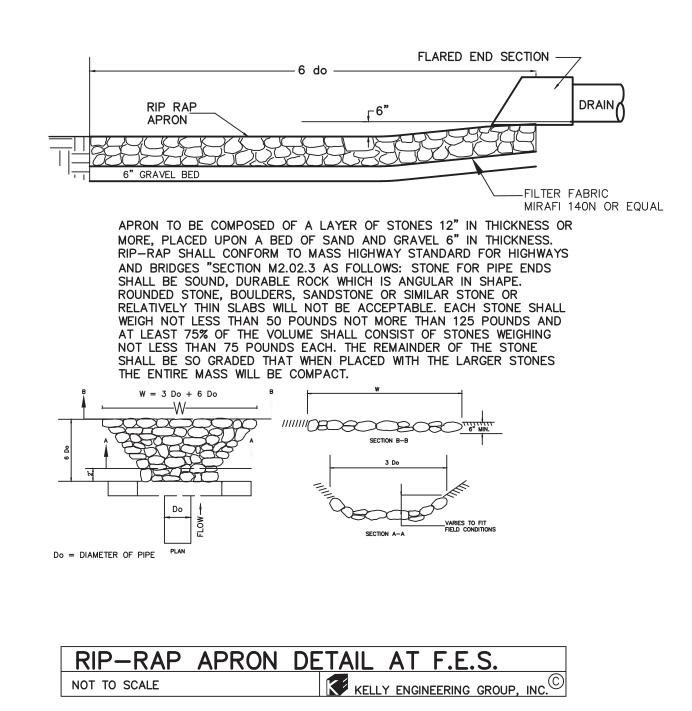
U.S. No.40 15-40 U.S. No.200 0-3

6. THE TOPSOIL COMPONENT SHALL BE A SANDY LOAM, LOAMY SAND, OR LOAM TEXTURE. 7. THE COMPOST COMPONENT MUST BE PROCESSED FROM YARD WASTE IN ACCORDANCE WITH MASSDEP GUIDELINES (SEE WWW.MASS.GOV/DEP/RECYCLE/REDUCE/LEAFGUID.DOC). THE COMPOST SHALL NOT CONTAIN BIOSOLIDS.

 EXFILTRATING
 BIORETENTION
 AREA
 DETAIL

 NOT TO SCALE
 KELLY ENGINEERING GROUP, INC
 C



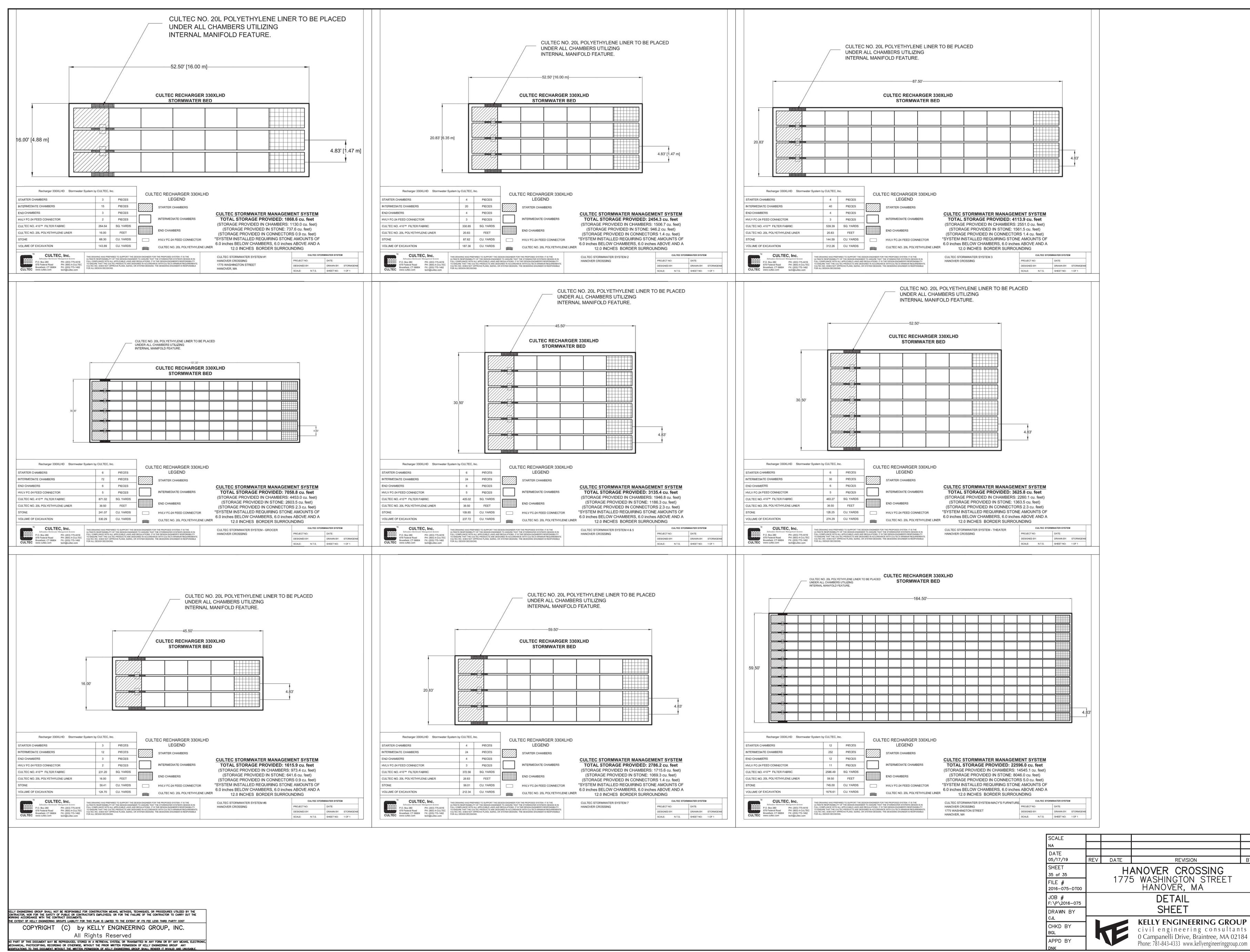


(MIRAFI 140N OR EQUAL)



SCALE					
NA					
DATE					
05/17/19	REV	DATE	REVISION		
SHEET	HANOVER CROSSI				
34 of 35	1775 WASHINGTON ST				
FILE #					
2016-075-DT00	HANOVER, MA				
JOB #	DETAIL SHEET				
F: \P\2016-075					
DRAWN BY					
CJL			<b>KELLY ENGINEERIN</b>		
CHKD BY			civil engineering c		
BGL			0 Campanelli Drive, Brainti		
APPD BY		Phone: 781-843-4333 www.kellyen			







Attachment 7- Hanover Crossing Commercial Site Landscape Plans

#### KELLY ENGINEERING GROUP, INC.

0 Campanelli Drive-Braintree-MA 02184 Phone 781 843 4333

# HANDVER CROSSING COMMERCIAL

LIST	OF DRAWINGS:
L1.0	SITE REFERENCE PLAN
L2.0	SOUTH WEST PLANTING PLAN
L2.1	SOUTH EAST PLANTING PLAN
L2.2	NORTH WEST PLANTING PLAN
L2.3	NORTH EAST PLANTING PLAN
L3.0	ENTRANCE PLANTING PLAN
L4.0	CENTRAL GREEN LANDSCAPE PL
L5.0	ENTERTAINMENT PLAZA LANDSC
L6.0	MACY <sup>I</sup> S PLAZA LANDSCAPE PLAN
D1	PLANT SCHEDULE, DETAILS & P.
D2	PLANTING NOTES
D3	CONSTRUCTION DETAILS



SITE LANDSCAPE PLANS

LAN CAPE PLAN PARKING CALCULATION

ISSUE DATE 5/17/19 5/17/19 5/17/19 5/17/19 5/17/19 5/17/19 5/17/19 5/17/19 5/17/19 5/17/19 5/17/19 5/17/19

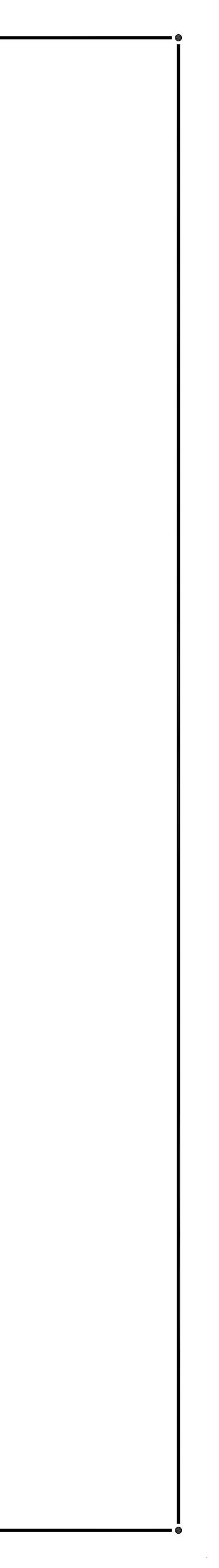
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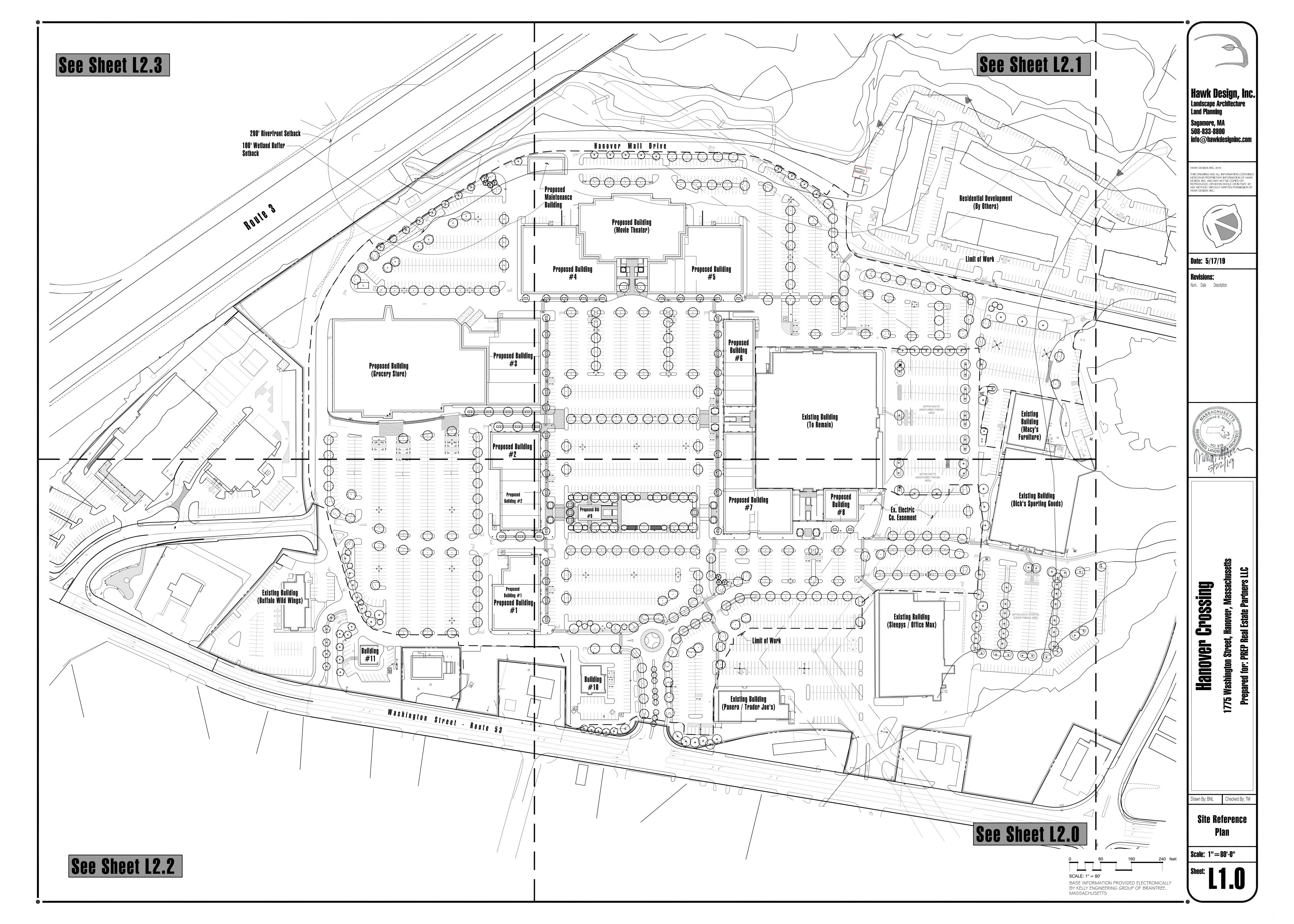


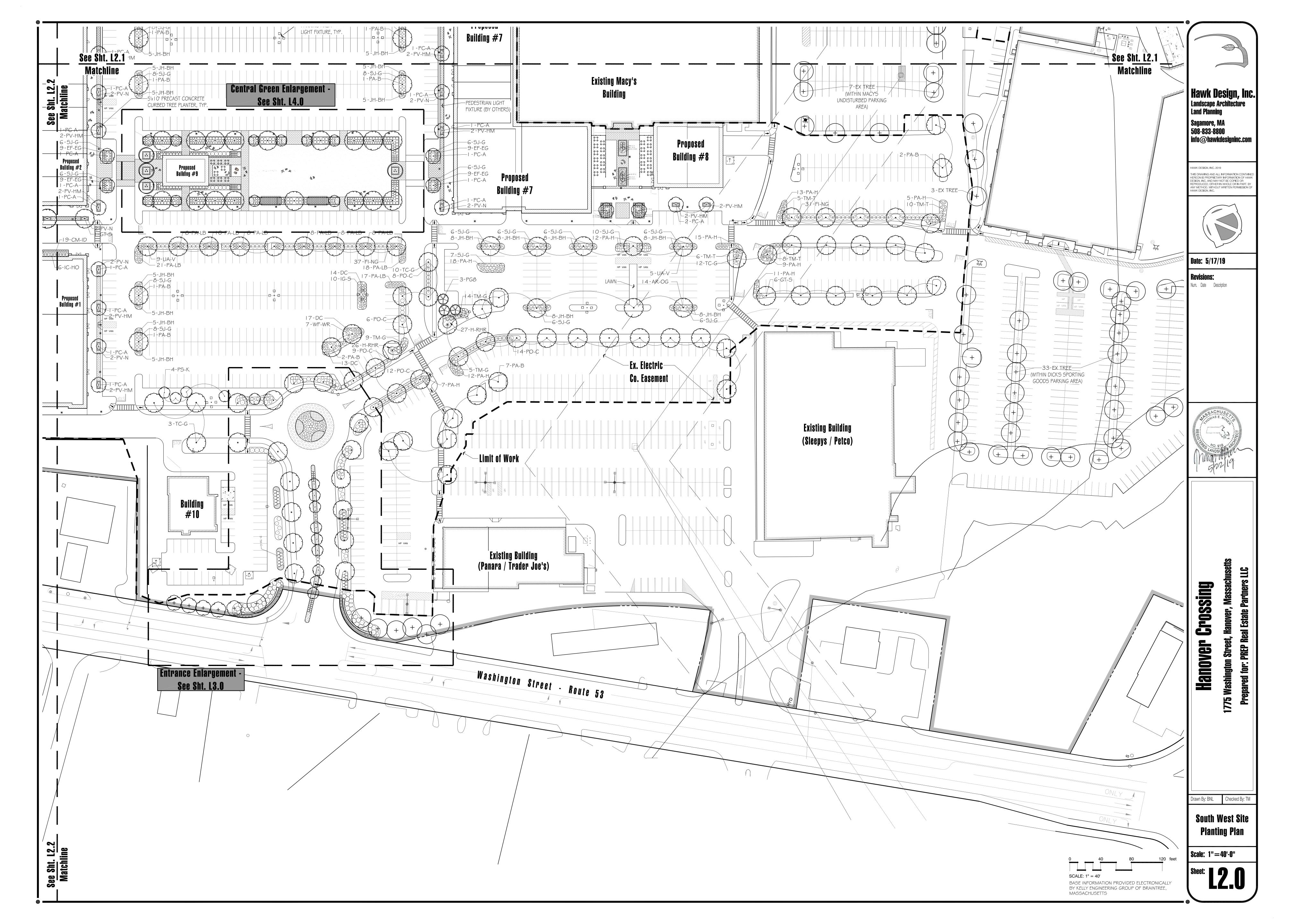
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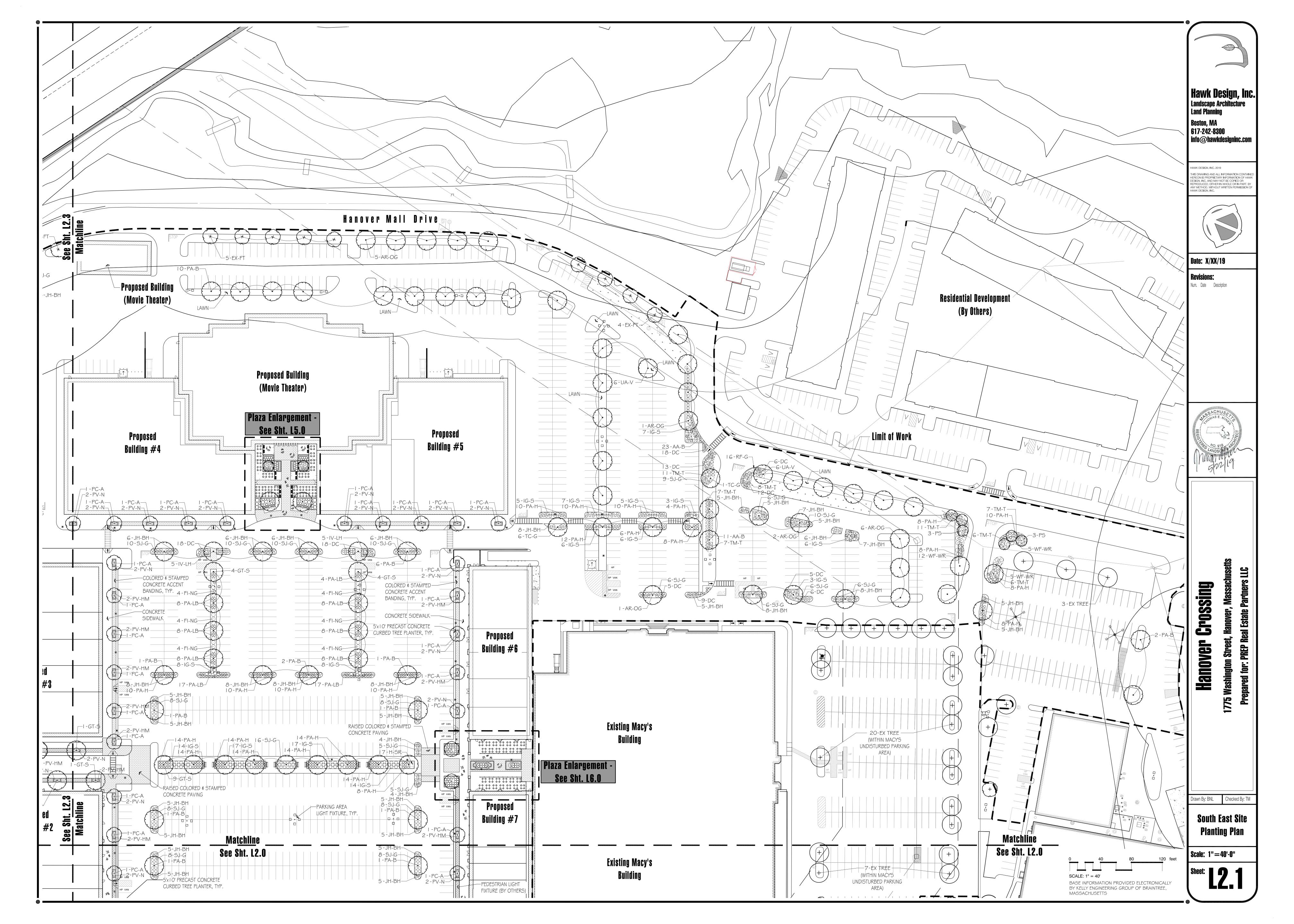
# Hawk Design, Inc. Landscape Architecture Land Planning

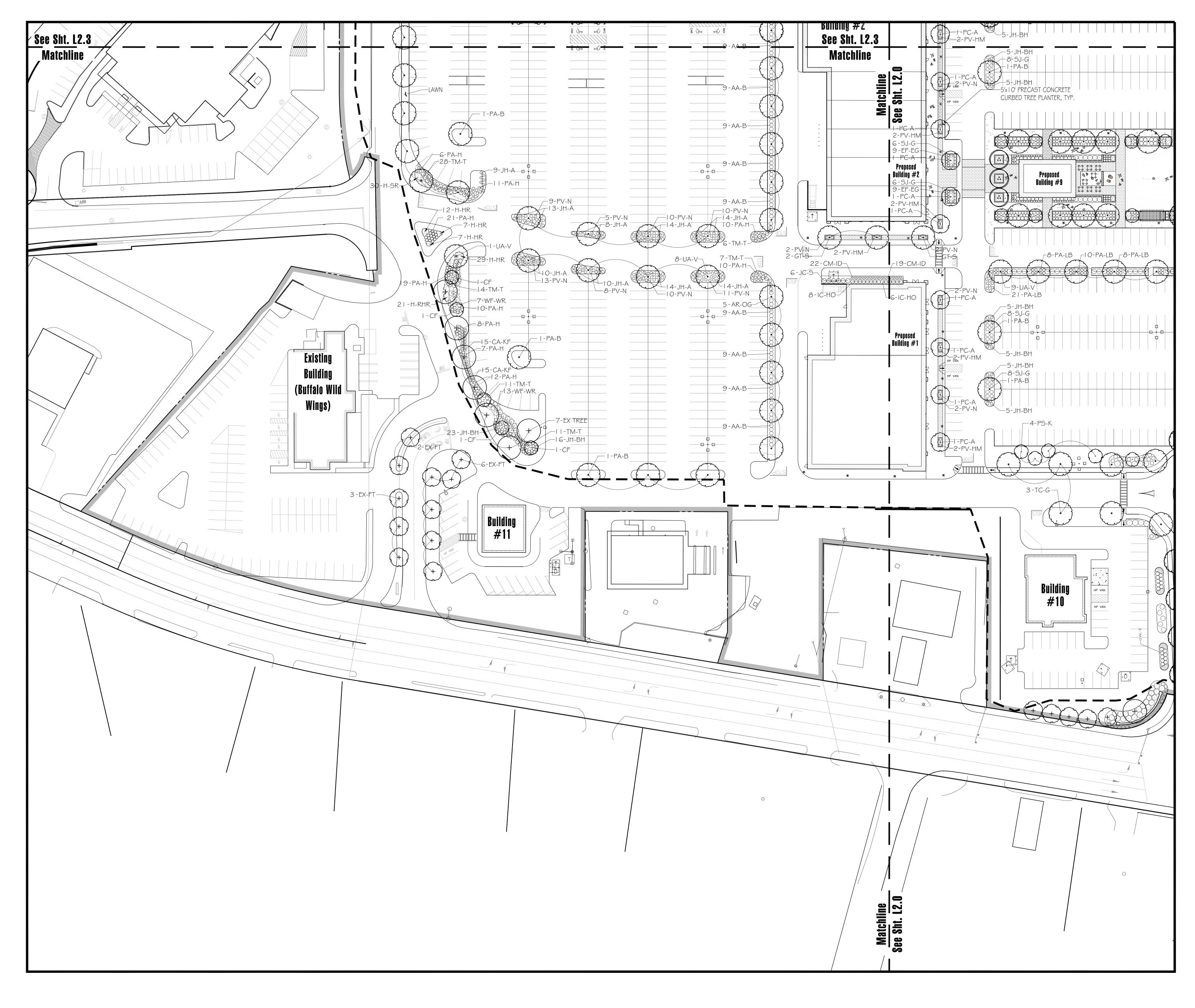
Sagamore, MA 508-833-8800 info@hawkdesigninc.com



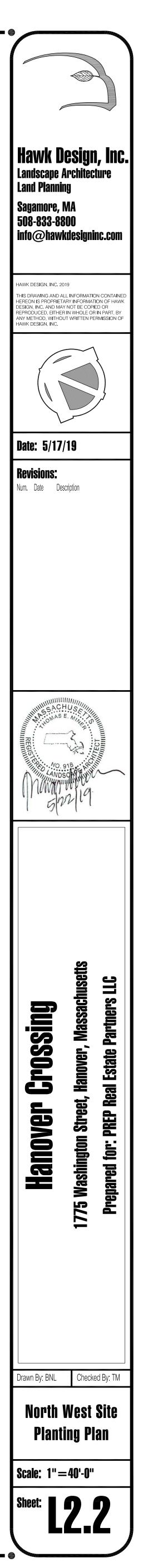


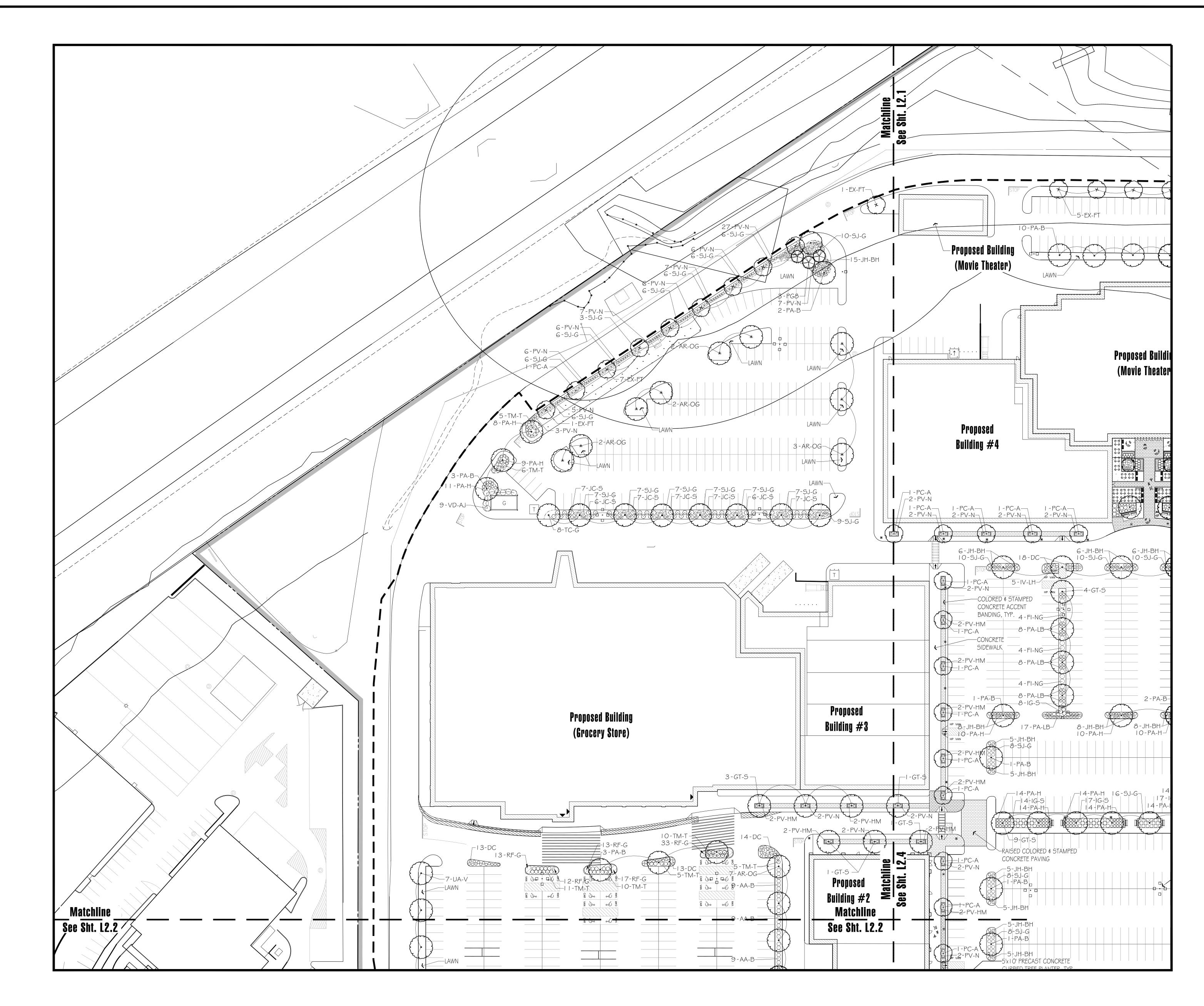


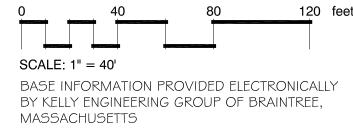


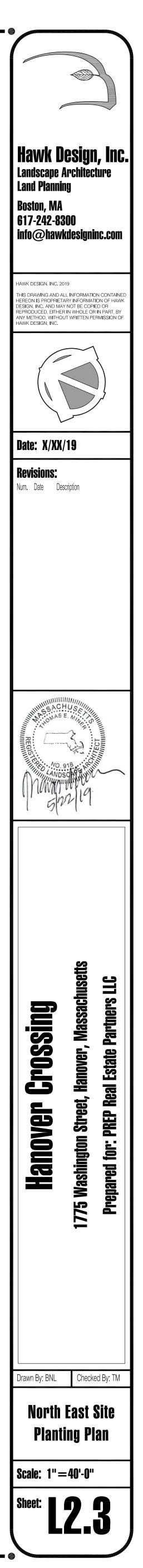


80 120 feet 40 SCALE: 1" = 40' BASE INFORMATION PROVIDED ELECTRONICALLY BY KELLY ENGINEERING GROUP OF BRAINTREE, MASSACHUSETTS

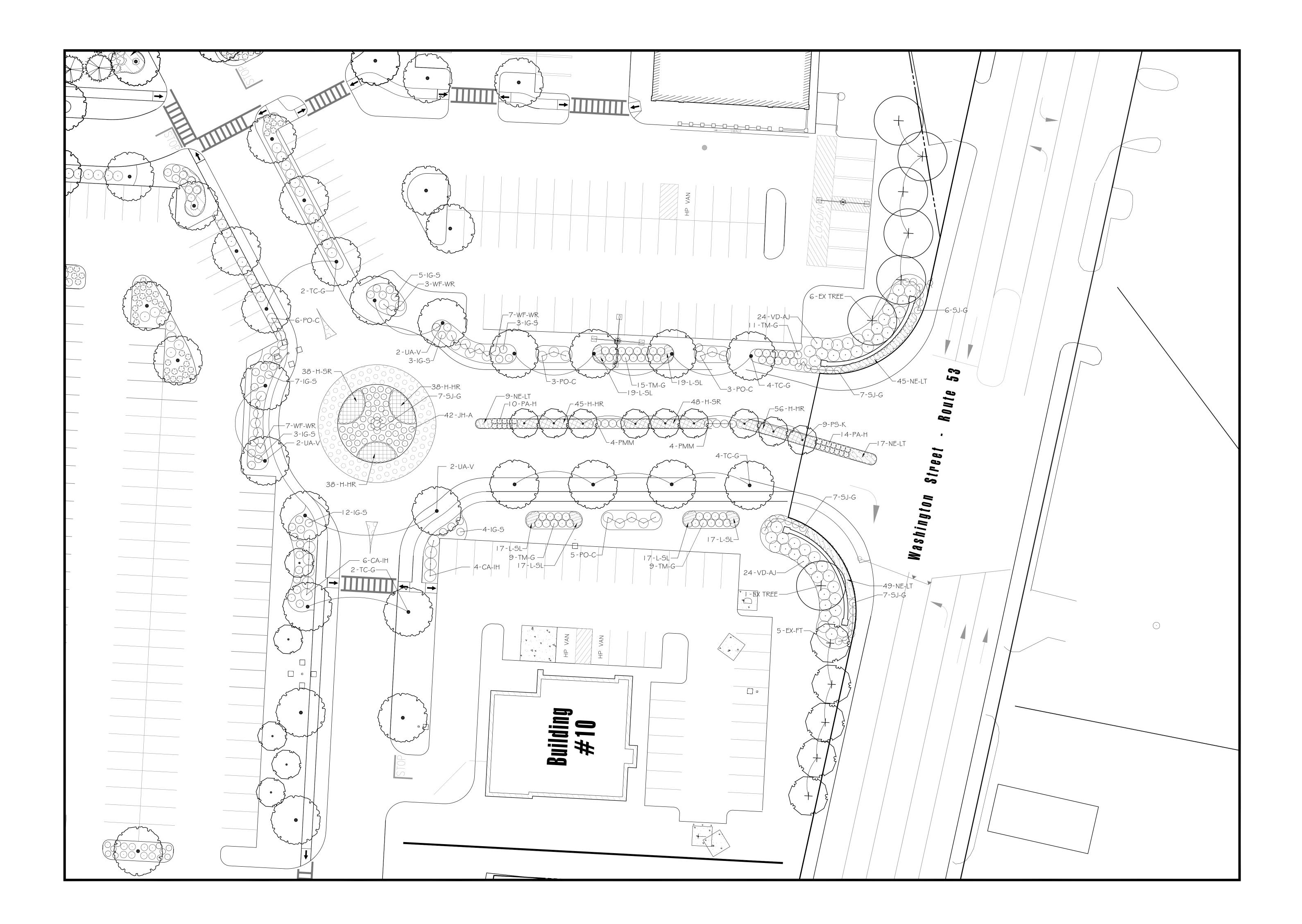


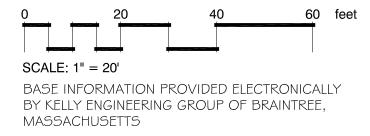


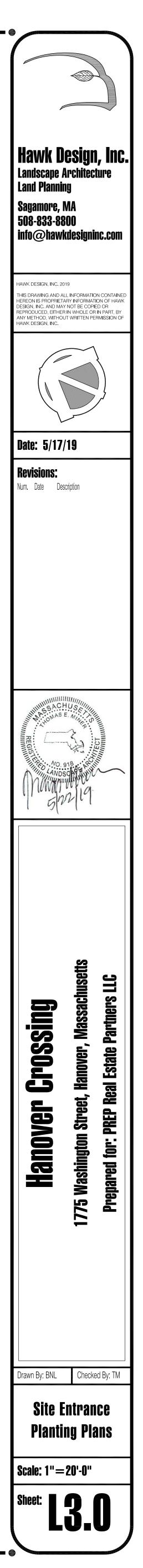


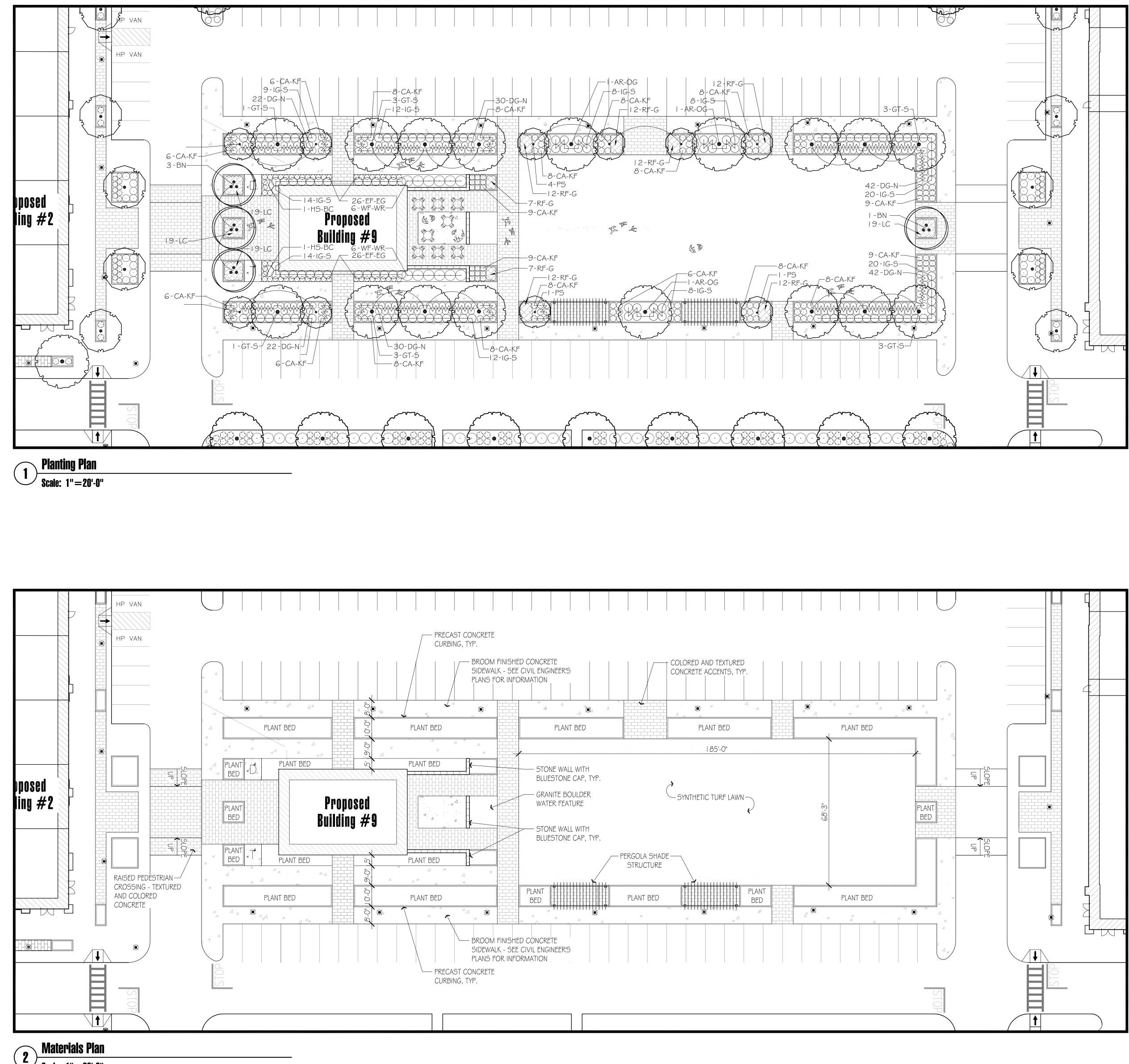


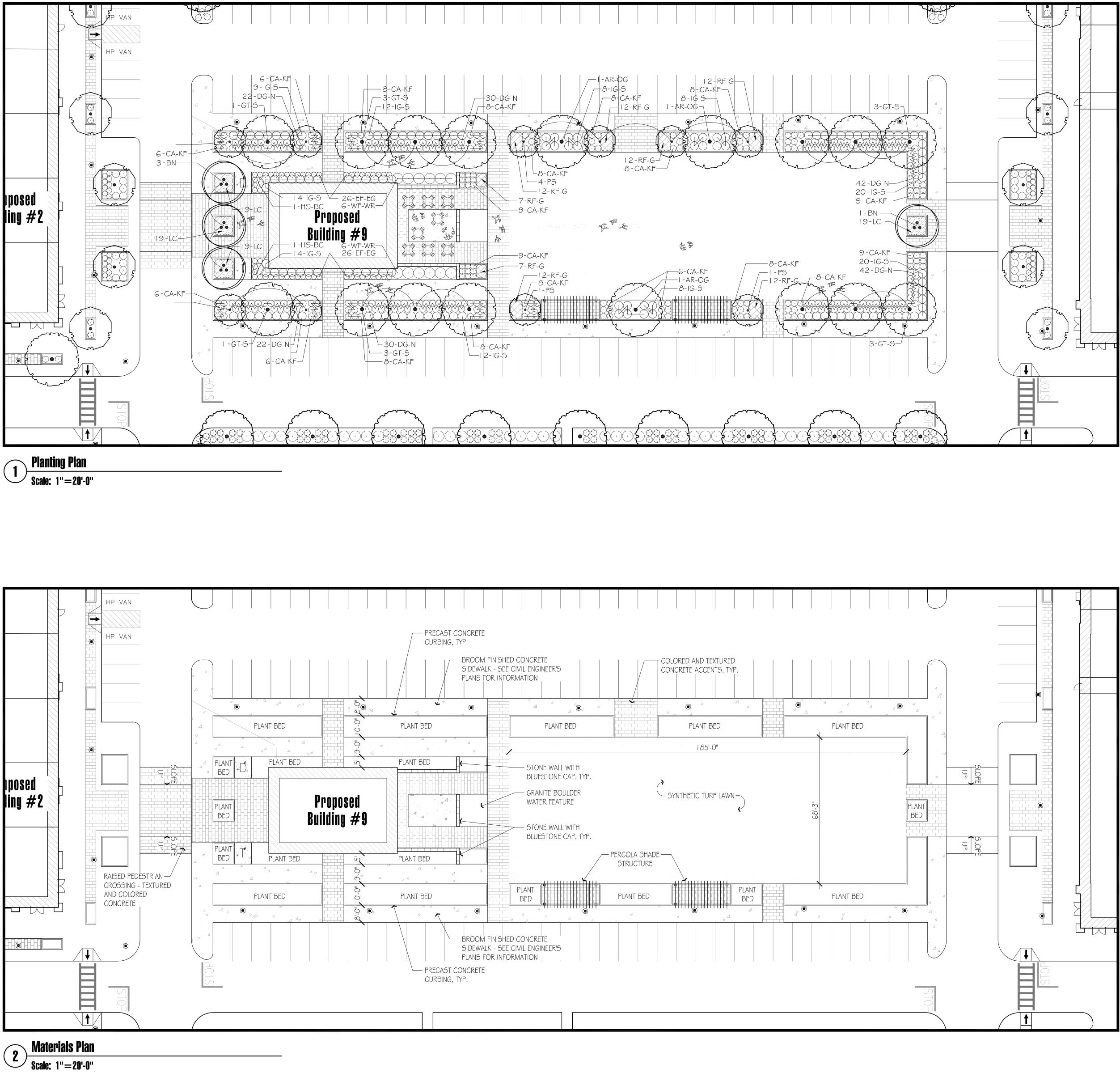
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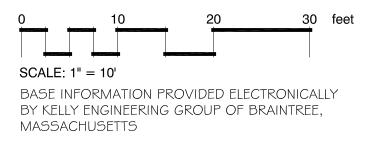


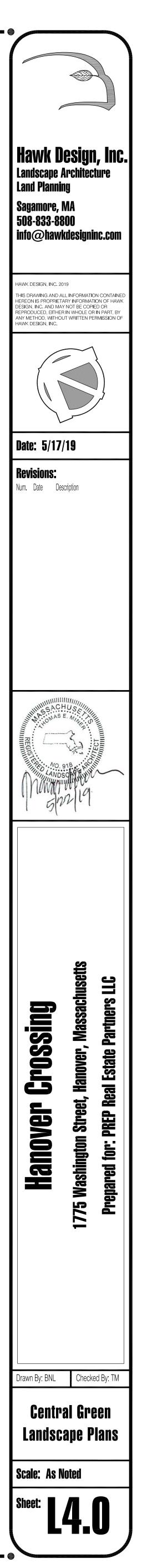


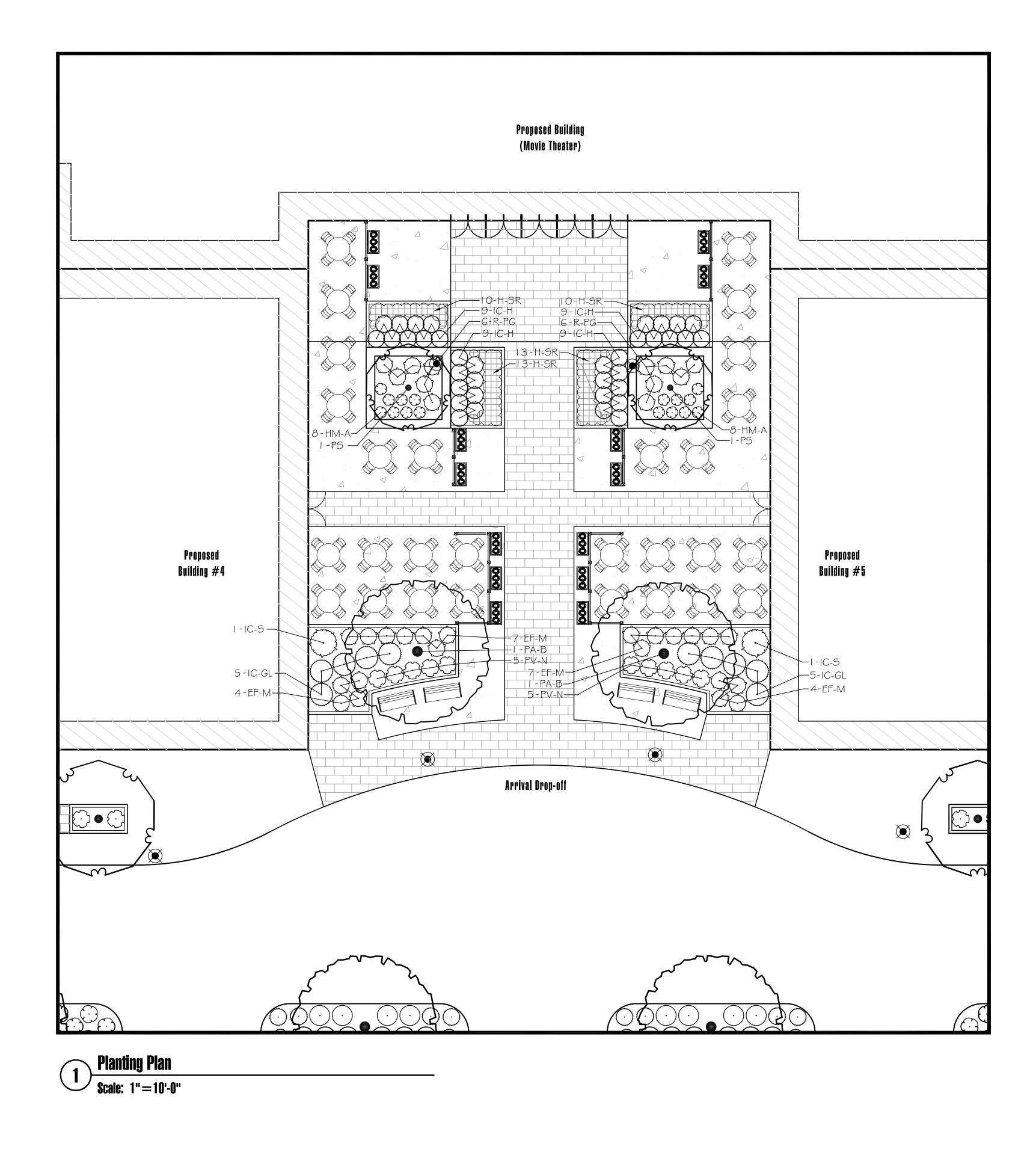




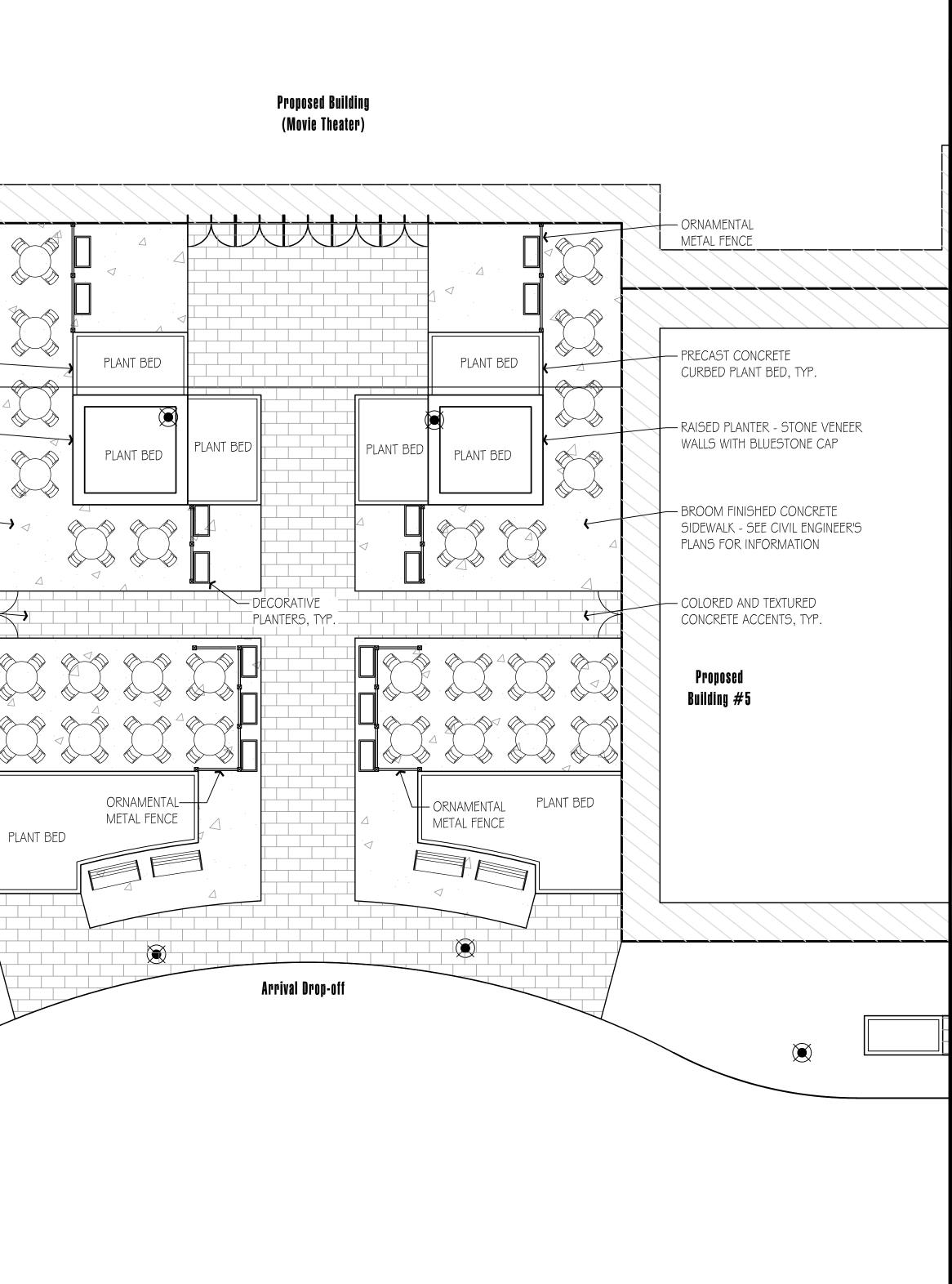


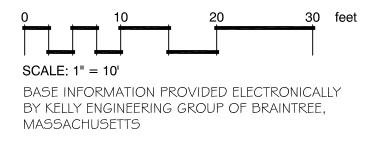


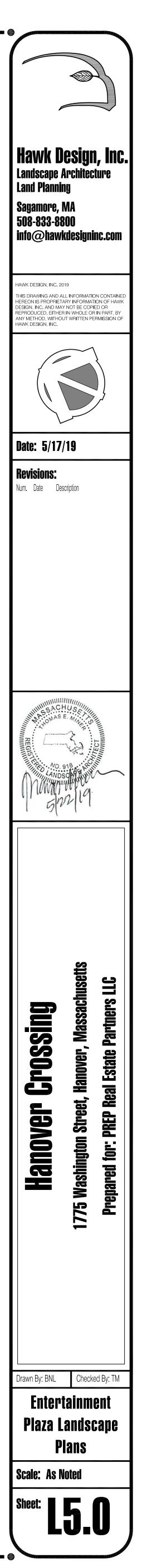


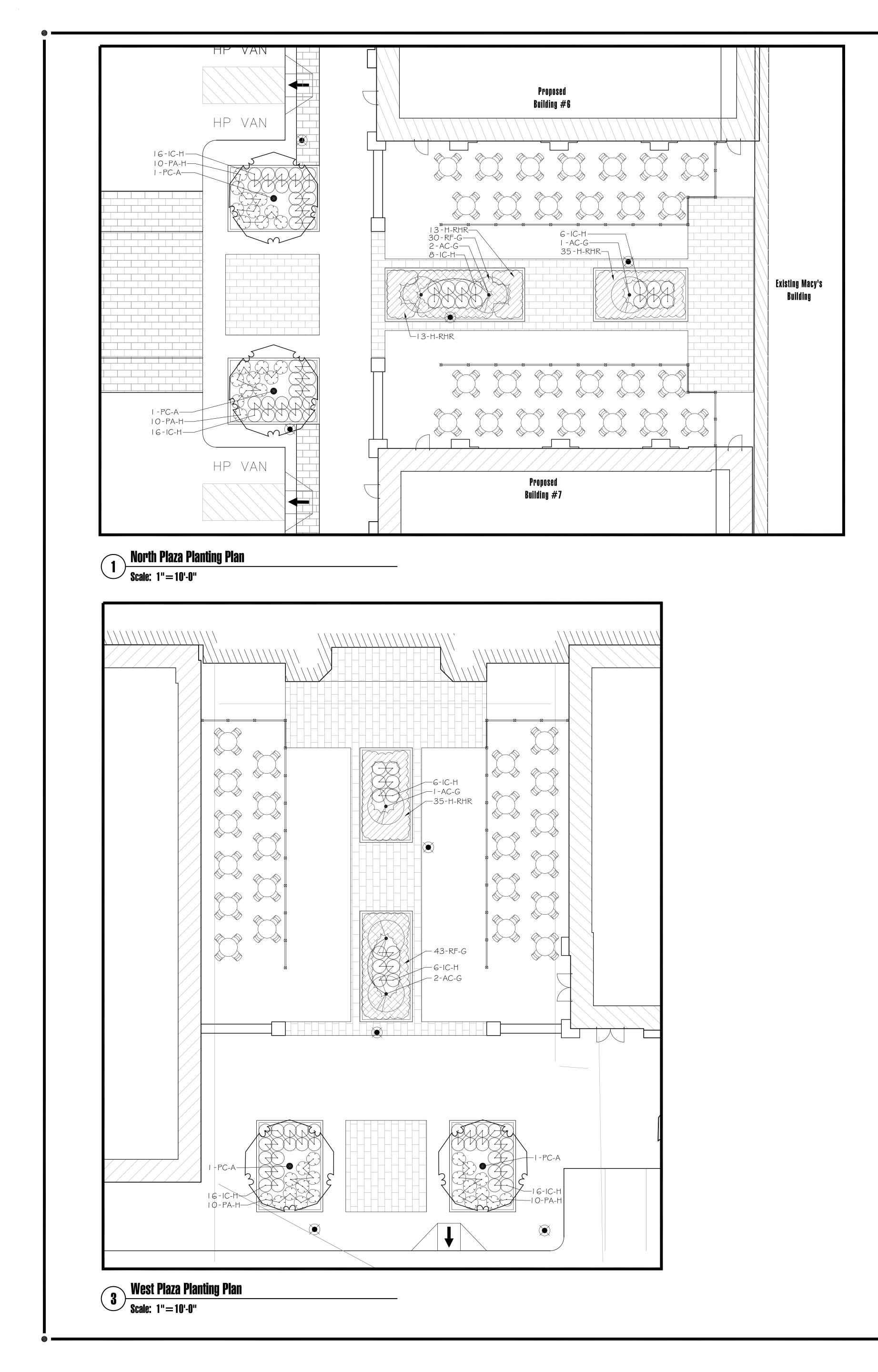


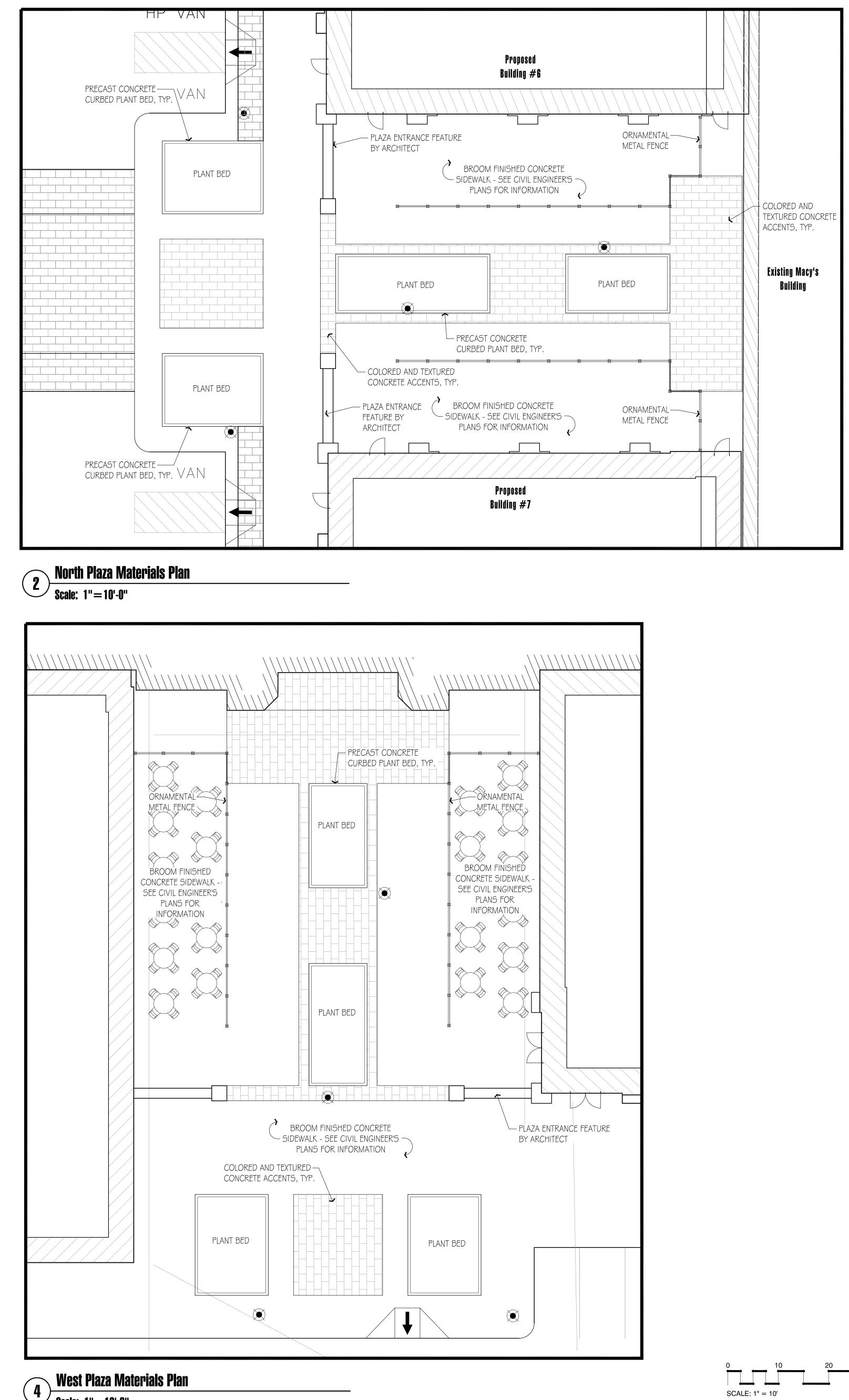
$\overline{}$		
$\overline{}$		$\rightarrow$
	PRECAST CONCRETE CURBED PLANT BED, TYP.	
	RAISED PLANTER - STONE VENEER	
	WALLS WITH BLUESTONE CAP	
	BROOM FINISHED CONCRETE SIDEWALK - SEE CIVIL ENGINEER'S	
	PLANS FOR INFORMATION	
	COLORED AND TEXTURED CONCRETE ACCENTS, TYP.	
	Proposed	
	Building #4	
	]	
	X_X	





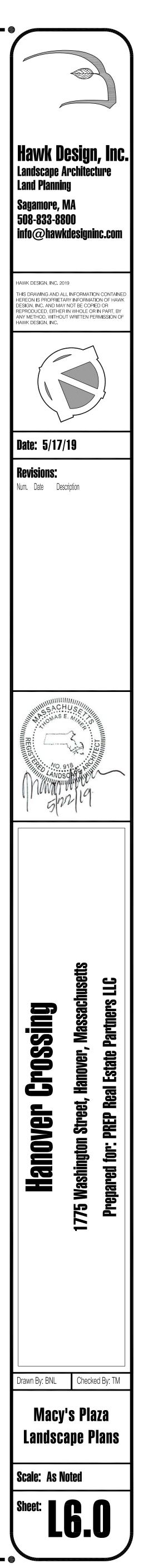




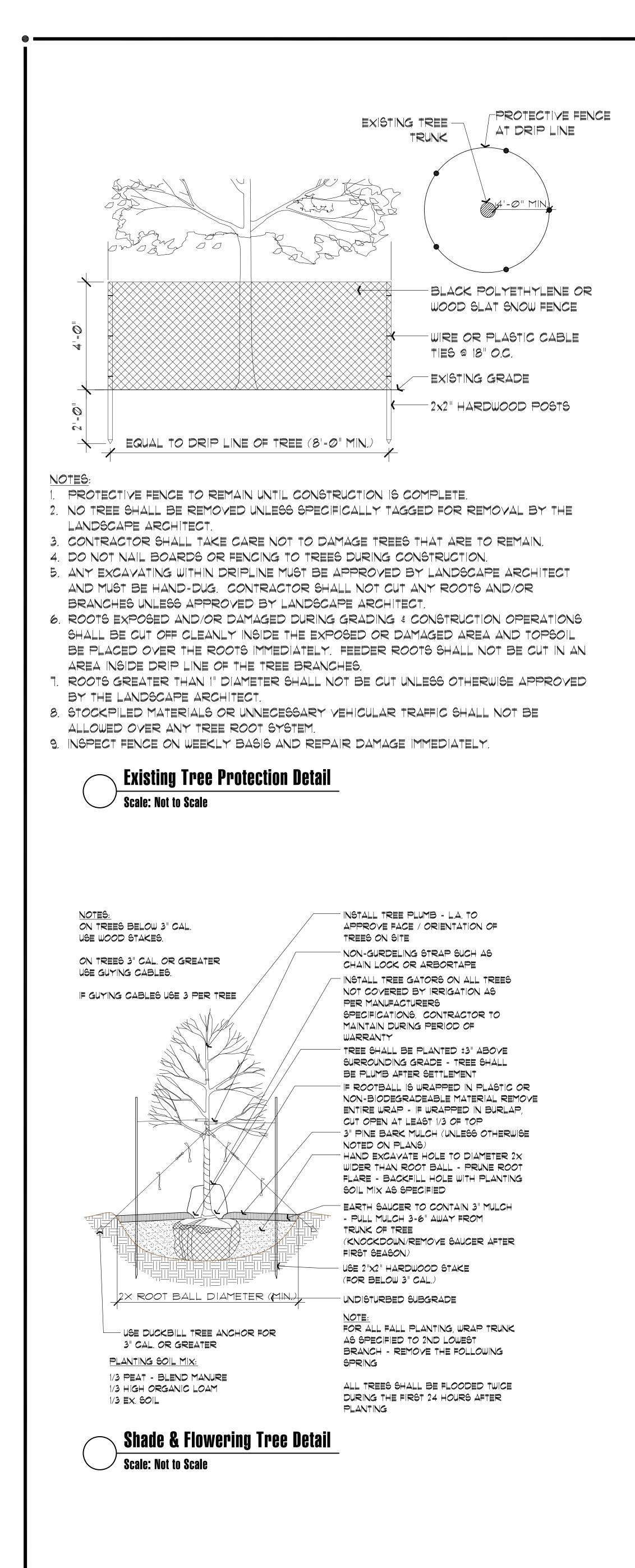


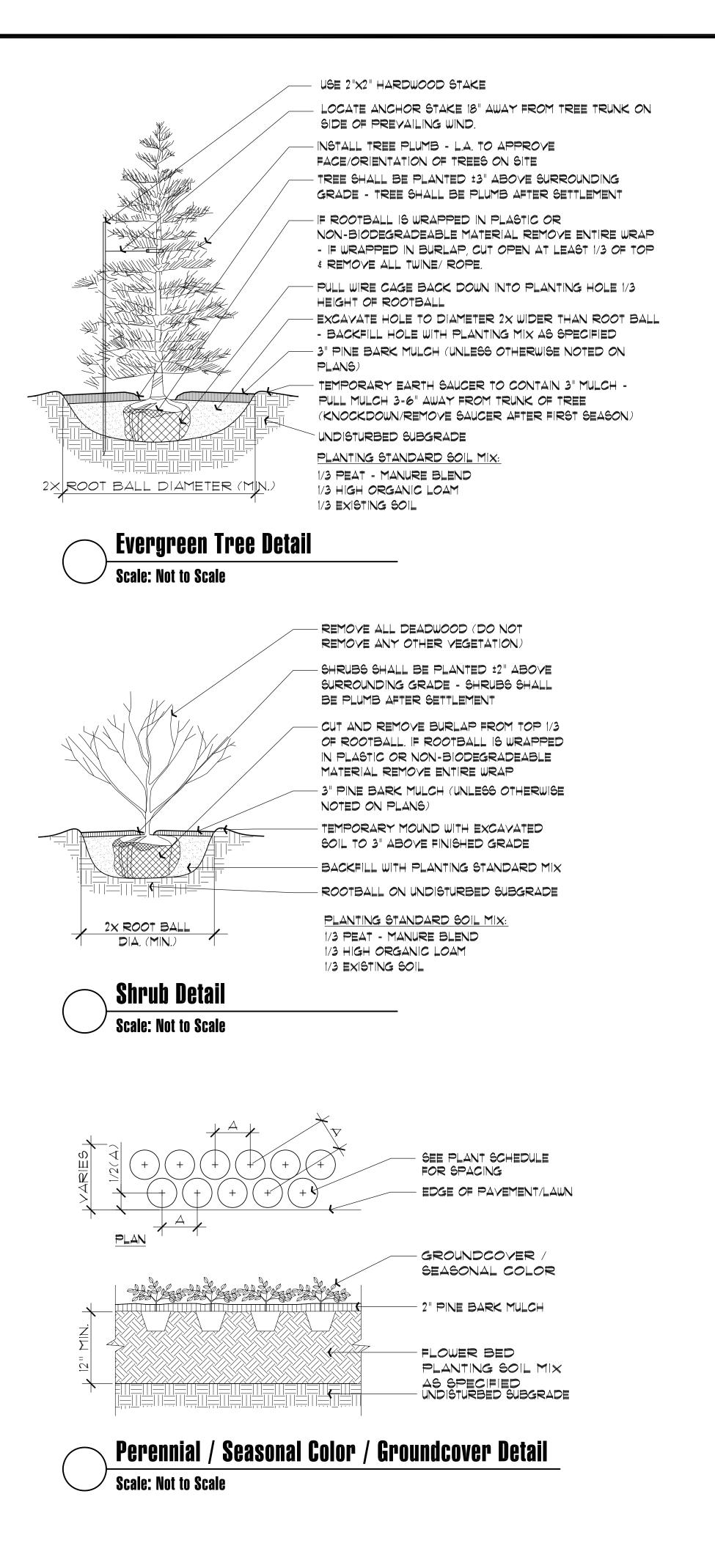


20 SCALE: 1" = 10' BASE INFORMATION PROVIDED ELECTRONICALLY BY KELLY ENGINEERING GROUP OF BRAINTREE, MASSACHUSETTS



30 feet





## Schedule of Topsoils:

LOCATION	DEPTH	DESCRIPTION
GENERAL Planting Bedg	6"	1/3 PEAT - MANURE BLEND 1/3 HIGH ORGANIC LOAM 1/3 EXISTING SOIL
FLOWER BEDS	12 "	SCREENED LOAM 1/3 PEAT - MANURE BLEND LIME - PELATIZED OR GROUND (50 LB. PER 100 SF.) GROUND BONE MEAL (50 LB. PER 100 SF.) 10-10-10 ORGANIC FERTILIZER (50 LB. PER 5000 SF.)
LAWNS - SOD & SEED	6"	6" SCREENED LOAM
PIT6/TREE WELLS "Standard Mix" For Backfill	12 "	1/3 PEAT - MANURE BLEND Soil Mix 'A' - 1/3 high organic loam 1/3 Existing Soil

PLANT SCHEDULE TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	PLANT SIZE
AR-OG	57	Acer rubrum `October Glory`	October Glory Maple	B & B	3-3.5" CAL.	
BN	4	Betula nigra	Multi-Stem River Birch	B & B		12-14`HT.
GT-S	47	Gleditsia triacanthos `Shademaster`	Shademaster Locust	B & B	3-3.5" CAL.	12 11 111
					3-3.5" CAL.	
PA-B	54	Platanus acerifolia `Bloodgood`	Bloodgood London Plane Tree	B&B		
TC-G	62	Tilia cordata `Greenspire`	Greenspire Littleleaf Linden	B & B	3-3.5" CAL.	
UA-V	48	Ulmus americana `Valley Forge`	American Elm	B & B	3-3.5" CAL.	
	ΟΤΥ			CONT	CAL	PLANT SIZE
EVERGREEN TREES	QTY	BOTANICAL NAME		CONT	CAL	
PG8	6	Picea glauca	White Spruce	B & B		8-10`HT.
EXISTING TREES	ΟΤΥ	BOTANICAL NAME	COMMON NAME	CONT	CAL	PLANT SIZE
EXISTING TREES	QTY					PLANT SIZE
	43	Existing Shade Tree	Existing Shade Tree	Existing		
EX-FT	35	Existing Flowering Tree	Existing Flowering Tree	Existing		
				CONT	CAL	
FLOWERING TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	PLANT SIZE
CF	5	Cornus florida	Flowering Dogwood	B & B	3-3.5" CAL.	
PC-A	45	Pyrus calleryana `Aristocrat`	Aristocrat Flowering Pear	B & B	3-3.5" CAL.	
PS	18	Prunus sargentii	Sargent Cherry	B & B	3-3.5" CAL.	
PS-K	14	Prunus serrulata `Kwanzan`	Kwanzan Cherry	B & B	3-3.5" CAL.	
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
AA-B	124	Aronia arbutifolia `Brilliantissima`	Brilliant Red Chokeberry	B & B		2-2.5` HT.
AC-G	6	Amelanchier canadensis `Glennform`	Rainbow Pillar Serviceberry	B & B		7-8` HT.
CA-IH	10	Cornus alba `Ivory Halo`	Variegated Redtwig Dogwood	B & B		2-2.5` HT.
DG-N	188	Deutzia gracilis `Nikko`	Slender Deutzia	Cont.		15-18" HT.
EF-EG	88	Euonymus fortunei `Emerald Gaiety`	Emerald Gaiety Euonymus	Cont.		18-24" HT.
EF-M	22	Euonymus fortunei `Moonshadow`	Moonshadow Euonymus	Cont.		18-24" HT.
FI-NG	94		· · · · · · · · · · · · · · · · · · ·	B & B		3-3.5` HT.
		Forsythia x intermedia `New Hampshire Gold`	New Hampshire Gold Forsythia			
HS-BC	2	Hibiscus syriacus `Blue Chiffon`	Rose-of-Sharon	B&B		4-5` HT.
IC-GL	10	Ilex crenata `Green Lustre`	Green Luster Japanese Holly	B & B		2-2.5`HT.
IC-H	126	Ilex crenata `Helleri`	Heller Japanese Holly	Cont.		18-24" HT.
ІС-НО	14	Ilex crenata `Hoogendoorn`	Hoogendoorn Japanese Holly	B & B		2-2.5`HT.
IC-S	2	Ilex crenata `Steeds`	Steeds Japanese Holly	B & B		4-4.5`HT
IG-S	307	Ilex glabra `Shamrock`	Shamrock Inkberry	B & B		2-2.5`HT.
IV-LH	10	Itea virginica `Little Henry`	Little Henry Sweetspire	Cont.		15-18" HT.
JC-S	52	Juniperus chinensis `Spartan`	Spartan Juniper	B & B		5-6` HT.
JH-A	149	Juniperus horizontalis `Andorra`	Andorra Juniper	Cont.		18-24" SPD.
JH-BH	320	Juniperus horizontalis `Bar Harbor`	Bar Harbor Creeping Juniper	Cont.		18-24" SPD.
PMM	8	Pinus mugo mugo	Mugho Pine	B & B		2-2.5` HT.
PO-C	66	Physocarpus opulifolius `Coppertina`	Coppertina Ninebark	B & B		3-3.5` HT.
R-PG	12			Cont.		18-24" HT.
		Rhododendron `Purple Gem`	Purple Gem Rhododendron			
SJ-G	397	Spiraea japonica `Goldflame`	Goldflame Spirea	Cont.		18-24" HT.
TM-G	72	Taxus x media `Greenwave`	Greenwave Spreading Yew	B & B		2-2.5`HT.
TM-T	220	Taxus x media `Tauntoni`	Tauton Yew	B & B		2-2.5` HT.
VD-AJ	57	Viburnum dentatum `Autumn Jazz`	Autumn Jazz Viburnum	B & B		3-3.5`HT.
WF-WR	78	Weigela florida `Wine & Roses`	Wine & Roses Weigela	B & B		3-3.5`HT.
GRASSES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
CA-KF	198	Calamagrostis x acutiflora `Karl Foerster`	Feather Reed Grass	2 GAL		
CM-ID	41	Carex morrowii `Ice Dance`	Ice Dance Japanese Sedge	1 gal		
DC	199	Deschampsia cespitosa	Tufted Hair Grass	2 GAL		
HM-A	16	Hakonechloa macra `Aureola`	Golden Variegated Hakonechloa	1 GAL		
PA-H	556	Pennisetum alopecuroides `Hameln`	Hameln Dwarf Fountain Grass	2 gal		
PA-LB	200	Pennisetum alopecuroides `Little Bunny`	Little Bunny Fountain Grass	1 gal		
PV-HM	38	Panicum virgatum `Heavy Metal`	Heavy Metal Switch Grass	3 GAL		
PV-N	220	Panicum virgatum `Northwind`	Northwind Switch Grass	3 GAL		
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT		
L-SL	106	Leucanthemum x `Snow Lady`	Dwarf Shasta Daisy	1 GAL.		
LC	76	Liriope spicata	Creeping Lily Turf	2 GAL.		
	,0					
		BOTANICAL NAME	COMMON NAME	CONT		
PERENNIALS / GROUND COVERS	QTY					
H-HR	232	Hemerocallis x `Happy Returns`	Happy Returns Daylily	1 GAL.		
H-RHR	170	Hemerocallis x `Red Hot Returns`	Red Hot Returns Daylily	1 GAL.		
H-SR	179	Hemerocallis x `Stephanie Returns`	Stephanie Returns Daylily	1 GAL.		
NE-LT	120	Nepeta x `Little Trudy`	Catmint	1 GAL.		
RF-G	263	Rudbeckia fulgida `Goldsturm`	Black-eyed Susan	1 GAL.		

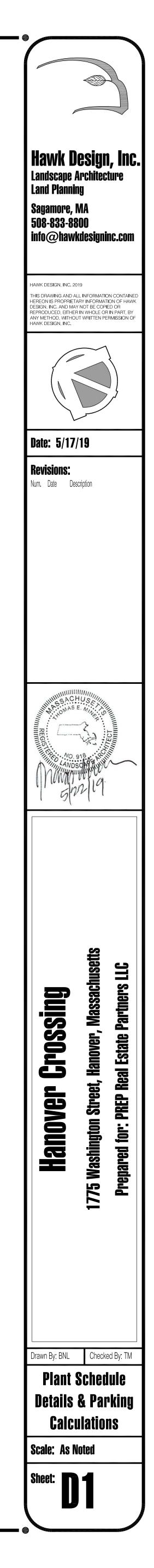
## Town of Hanover Parking Area Tree Requirements:

TOWN OF HANOVER ZONING BYLAW SECTION 9.210:

"PARKING AREAS CONTAINING TEN (10) OR MORE PARKING SPACES SHALL HAVE A MINIMUM OF ONE (1) TREE PER EIGHT (8) (OR FRACTIONS OF EIGHT) PARKING SPACES AND SUCH TREES SHALL BE LOCATED WITHIN THE PAVED PARKING AREA."

PARKING AREA TREE REQUIREMENT TABLE:

PROPOSED PARKING SPACES WITHIN HANOVER CROSSING:	3,250
REQUIRED TREE QUANTITY WITHIN PARKING AREA:	406
PROPOSED AND EXISTING TREES WITHIN HANOVER CROSSING: (PROPOSED TREES INCLUDE SHADE AND FLOWERING TREES)	431



#### General Landscape Notes:

- 1.1) CONTRACTOR REQUIREMENTS: A) ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS, FROM ALL FEDERAL, STATE AND LOCAL AUTHORITIES.
- B) THE CONTRACTOR SHALL ARRANGE FOR AND OBTAIN ALL PERMITS AND LICENSES REQUIRED FOR THE COMPLETE WORK SPECIFIED HEREIN AND SHOWN ON ALL THE DRAWINGS, THE CONTRACTOR SHALL PAY FOR ANY FEES NOT WAIVED.
- 1.2) <u>utilities:</u> A) LANDSCAPE CONTRACTOR IS REQUIRED TO CONTACT THE RELEVANT UTILITY COMPANIES PRIOR TO DOING ANY EXCAVATION ON THE SITE. IF ANY WORK IS TO BE DONE AROUND UNDERGROUND UTILITIES, THE APPROPRIATE AUTHORITY OF THAT UTILITY MUST BE NOTIFIED OF THE IMPENDING WORK.
- B) UTILITIES SHALL BE LOCATED AND MARKED PRIOR TO ANY INSTALLATION. ADJUSTMENTS MAY BE NECESSARY IN THE FIELD TO ACCOMMODATE UTILITY LOCATIONS. REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- C) THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES DONE TO EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF SATISFACTORY REPAIR OF ALL DAMAGE IN KIND RESULTING FROM THEIR FAILURE TO COMPLY.
- 1.3) PROTECTION OF EXISTING WORK: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ALL WORK IN A MANNER THAT PROTECTS WORK COMPLETED BY OTHERS, SUCH AS CURBS, UTILITIES, STORM DRAINAGE, FENCES, DRIVEWAY APRONS, DRIVES, VEGETATION, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF SATISFACTORY REPAIR OF ALL DAMAGE IN KIND RESULTING FROM THEIR FAILURE TO COMPLY.
- 1.4) QUANTITIES: A COMPLETE LIST OF PLANTS INCLUDING A SCHEDULE OF QUANTITIES, SIZES, TYPES, AND NAMES IS INCLUDED IN THIS SET OF DRAWINGS. IN THE EVENT OF DISCREPANCIES BETWEEN QUANTITIES OF PLANT IN THE PLANT LIST AND THE QUANTITIES SHOWN ON THE DRAWINGS, THE PLAN SHALL GOVERN. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF UNLABELED PLANTS IN PLAN FOR CLARIFICATION. THE LANDSCAPE ARCHITECT SHALL BE ALERTED BY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO FINAL BID NEGOTIATION.
- 1.5) APPLICABLE PLANT MATERIALS STANDARDS: ALL PLANT MATERIALS ARE TO COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. PLANTING METHODS WILL BE IN ACCORDANCE WITH SITE-SPECIFIC REQUIREMENTS,
- 1.6) PLANT HARDINESS: ALL TREES AND SHRUBS SHALL BE NURSERY GROWN WITHIN A USDA PLANT HARDINESS ZONE, WHICH IS THE SAME AS, OR COLDER THAN, THE ZONE IN WHICH THE PROJECT IS LOCATED.
- 1.7) PLANTING SEASONS: PLANTING SHALL ONLY OCCUR DURING SPECIFIED SEASONS. SPRING SEASON SHALL BE FROM MARCH I TO JUNE 15, FALL PLANTING SEASON SHALL BE FROM SEPTEMBER 15 THROUGH NOVEMBER 15. NO PLANTING SHALL OCCUR WHEN THE GROUND IS FROZEN.
- 1.8) PLANT SUBSTITUTIONS: NO SUBSTITUTIONS OF PRODUCTS, PLANT TYPES OR SIZES SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT REQUESTS FOR SUBSTITUTION SHALL BE IN WRITING, AND SHALL STATE THE REASON FOR THE SUBSTITUTION REQUEST, THE SUGGESTED ALTERNATIVE AND THE CHANGES IN COST, REQUESTS FOR SUBSTITUTION IN PLANT MATERIALS SHALL STATE THE NAMES OF NURSERIES THAT HAVE BEEN UNABLE TO SUPPLY THE ORIGINALLY SPECIFIED MATERIAL,
- 1,9) THE LANDSCAPE ARCHITECT SHALL RESERVE THE RIGHT TO INSPECT ALL PLANT MATERIALS AT THE NURSERY, UPON SITE DELIVERY AND DURING INSTALLATION TO INSURE SPECIFICATIONS AND PROCEDURES ARE ADHERED TO.
- 1.10) MINIMUM SIZES: ALL PLANTS 3' OR GREATER IN HEIGHT OR SPREAD SHALL BE BALLED AND BURLAPPED. SIZES SPECIFIED IN THE PLANT LIST ARE MINIMUMS ON WHICH THE PLANTS ARE TO BE JUDGED.
- 1.11) DEAD PLANTS: DEAD PLANTS ARE TO BE REMOVED FROM THE SITE IMMEDIATELY, AND REPLACED WITH THE SAME PLANT & SIZE REGARDLESS OF SEASON, WEEKLY FROM THE JOB BY THE CONTRACTOR, THE CONTRACTOR SHALL MAINTAIN AN UPDATED COMPREHENSIVE LIST OF ALL DEAD MATERIALS REMOVED AND PRESENT A COPY OF THE LIST TO THE OWNER AND LANDSCAPE ARCHITECT AT THE END OF EVERY MONTH DURING THE CONTRACT PERIOD.
- 1.12) PLANT MATERIAL REMOVAL: NO EXISTING TREES SHALL BE REMOVED WITHOUT THE WRITTEN AUTHORIZATION FROM THE LANDSCAPE ARCHITECT EXCEPT WHERE NOTED ON THE PLANS, CONTRACTORS WHO REMOVE EXISTING TREES WITHOUT WRITTEN APPROVAL WILL BE REQUIRED TO MAKE REMEDIES DETERMINED BY THE GOVERNING URBAN FORESTER OR EQUIVALENT AUTHORITY. NO GRUBBING SHALL OCCUR WITHIN EXISTING TREE AREAS UNLESS SPECIFICALLY NOTED ON THE PLANS.
- 1.13) ALL DISTURBED AREAS NOT TO RECEIVE PLANT MATERIALS ARE TO BE LOAMED AND SEEDED AND BLENDED INTO EXISTING GRADE AND CONDITIONS. SEE SECTION 4.0.
- 1.14) LEDGE BOULDERS: IF DURING SITE EXCAVATION, LEDGE BOULDERS ARE AVAILABLE, THESE ARE TO BE STOCKPILED FOR USE IN EARTH BERMS IF APPLICABLE, WITH HAWK DESIGN, INC. PRIOR TO INSTALLATION. THIS ITEM WILL ONLY APPLY IF SO SPECIFIED ON DRAWINGS. BOULDERS SIZES TO BE STOCKPILED WILL RANGE FROM TWO TO FIVE FEET IN DIAMETER, SEE APPROPRIATE DETAIL FOR INSTALLATION COORDINATION.
- 1.15) SLEEVES: LANDSCAPE OR SITE CONTRACTOR SHALL PLACE INDIVIDUAL SLEEVES FOR LIGHTING AND IRRIGATION UNDER ANY PROPOSED WALKWAY OR VEHICULAR ROADWAY PRIOR TO INSTALLATION, COORDINATE SLEEVE LOCATIONS WITH IRRIGATION AND LIGHTING CONTRACTORS PRIOR TO INSTALLATION.
- 1.16) DO NOT CLOSE OR OBSTRUCT ANY STREET, SIDEWALK, ALLEY OR PASSAGEWAY WITHOUT PRIOR NOTIFICATION AND PERMISSION, CONDUCT OPERATIONS AS TO INTERFERE AS LITTLE AS POSSIBLE WITH THE USE ORDINARILY MADE OF ROADS, DRIVEWAYS, ALLEYS, SIDEWALKS OR OTHER FACILITIES NEAR ENOUGH TO THE WORK TO BE EFFECTED THEREBY.

#### Planting Materials:

- 2.1 PLANTING MATERIAL ITEMS IN SECTION 2.0 ARE TO BE INCORPORATED DURING PLANT INSTALLATION UNLESS OTHERWISE DEEMED UNNECESSARY IN ACCORDANCE WITH SOIL TEST RECOMMENDATIONS. SEE SECTION 3.1.
- MULCH MULCH WILL BE DOUBLE-SHREDDED PINE BARK MULCH. - TREES AND SHRUBS SHALL RECEIVE AN EVEN 3" MULCH LAYER.
- GROUNDCOVERS, PERENNIALS AND ANNUALS SHALL RECEIVE AN EVEN 2" MULCH LAYER.
- MANURE- TO BE WELL ROTTED, ODORLEGS, UNLEACHED COW MANURE, CONTAINING NOT MORE THAN 15% BEDDED MATERIALS SUCH AS STRAW, WOOD CHIPS OR SHAVINGS, AGED NOT LESS THAN TWO YEARS OLD.

HERBICIDE - A PRE-EMERGENCE WEED KILLER IS TO BE USED ON ALL LAWN AND PLANTING AREAS PRIOR TO INSTALLATION AS PER MANUFACTURER'S SPECFICATIONS, \*HERBICIDES ARE NOT TO BE APPLIED IN RESTRICTED CONSERVATION AREAS.

FERTILIZER- ALL TREES AND SHRUBS TO HAVE SLOW RELEASE PACKET OR PELLET PLACED INTO THE PLANT PIT WITH A MINIMUM ANALYSIS OF 10-10. ALL GROUNDCOVERS, PERENNIALS AND ANNUALS ARE TO RECIEVE A BROADCAST APPLICATION OF A 14-14-14 FERTILZER AT 3 LB PR 100 SQ. FT. APPLY AS PER MANUFACTURER'S INSTRUCTIONS. \*FERTILIZERS ARE NOT TO BE APPLIED IN RESTRICTED CONSERVATION AREAS.

TOPSOIL- ACCEPTABLE TOPSOIL SHALL BE FERTILE, FRIABLE NATURAL LOAM, UNIFORM IN COMPOSITION, FREE OF STONES, LIMBS, PLANTS AND THIER ROOTS, DEBRIS AND OTHER EXTRANEOUS MATTER OVER ONE INCH IN DIAMETER, THE SOIL SHALL BE CAPABLE OF SUSTAINED PLANT GROWTH AND HAVE A 5% MINIMUM ORGANIC CONTENT. IN SITUATIONS WHICH REQUIRE A CUSTOM TOPSOIL OR STRUCTURAL SOIL, THE SOIL MIXTURE SPECIFICATION WILL BE PROVIDED BY THE LANDSCAPE ARCHITECT.

SOIL AMENDMENTS: APPLY AS NECESSARY ACCORDING TO SOIL TEST RESULTS, AS PER MANUFACTURES SPECIFICATIONS.

ANTI-DESICCANT- "WILT PRUF" NOF OR EQUAL APPLY AS PER MANUFACTURERS"

#### Plant Installation:

SPECIFICATIONS.

- 3.1) SOIL TESTING: LANDSCAPE CONTRACTOR SHALL PROVIDE A CERTIFIED SOIL ANALYSIS PRIOR TO ANY PLANT INSTALLATION TO DETERMINE ANY NECESSARY AMENDMENTS TO THE EXISTING SOIL CONDITIONS FOR SEEDING AND PLANTING. THE ANALYSIS WILL ALSO BE REQUIRED FOR ESTABLISHING THE FERTILIZER PROGRAM REQUIRED. COORDINATE RESULTS AND PROVIDE WRITTEN RECOMMENDATIONS TO HAWK DESIGN, INC. 15 DAYS PRIOR TO INSTALLATION.
- 3.2) ALL PLANTS SHALL BE TRANSPORTED TO THE SITE IN COVERED TRUCKS, TARPAULIN COVERS SHALL BE UTILIZED TO PREVENT WIND DAMAGE OF LOAD.
- 3.3) DELIVER PLANT MATERIALS IMMEDIATELY PRIOR TO PLACEMENT. KEEP PLANT MATERIALS MOIST, DO NOT STORE PLANT MATERIAL ON PAVED AREAS, ROOTS OR BALLS SHALL BE PROTECTED FROM THE SUN OR DRYING WINDS. AS REQUIRED BY TEMPERATURE OR WIND CONDITIONS, APPLY ANTI-DESICCANT EMULSION TO PREVENT DRYING OUT OF PLANT MATERIALS,
- 3.4) CONDITIONS FOR PLANT REJECTION:
- A) REJECT PLANTS WHEN BALL OF EARTH SURROUNDING ROOTS HAS BEEN CRACKED OR BROKEN PREPARATORY TO OR DURING THE PROCESS OF PLANTING.
- B) WHEN BURLAP, STAVES AND ROPES REQUIRED IN CONNECTION WITH TRANSPLANTING HAVE BEEN DISPLACED PRIOR TO ACCEPTANCE.
- C) WIND DAMAGED PLANT MATERIAL FROM POOR TARPAULIN COVER PROCEDURES ARE SUBJECT TO REJECTION.
- 3.5) ALL PLANT MATERIAL, WHICH CANNOT BE PLANTED IMMEDIATELY ON DELIVERY, SHALL BE SET ON THE GROUND IN A SHADED LOCATION AND SHALL BE TEMPORARILY PROTECTED WITH SOIL OR OTHER ACCEPTABLE MATERIAL, TEMPORARY WATERING OR IRRIGATION SHALL BE INCORPORATED AND REGULARLY CONDUCTED ON PLANTINGS IN HOLD AREAS.
- 3.6) IN CASE OF CONFLICTS DURING CONSTRUCTION WITH UTILITIES, ROCK MATERIALS, TREE ROOTS OR OTHER OBSTRUCTIONS FOR THE EXCAVATION OF SHRUB BEDS AND TREE PITS. CONTACT LANDSCAPE ARCHITECT FOR APPROVED ALTERNATE LOCATIONS.
- 3.7) SOIL PERMABILITY: TEST DRAINAGE OF PLANTING BEDS AND PITS BY FILLING WITH WATER TWICE IN SUCCESSION, CONDITIONS PERMITTING THE RETENTION OF WATER FOR MORE THAN 24 HOURS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
- 3.8) SOIL EXCAVATIONS: A) EXCAVATE TREE PITS AND SHRUB BEDS TO DEPTHS REQUIRED BY PLANTING DETAILS, ALL PITS SHALL BE CIRCULAR IN OUTLINE, EXCEPT FOR WHOLE BEDG, SEE APPROPRIATE PLANTNIG DETAILS.
- B) SOIL EXCAVATIONS FOR BALLED & BURLAP AND CONTAINER PLANTINGS MUST BE NO LESS THAN 2X ROOT BALL DIAMETER, SEE PLANTING DETAILS. IF QUESTIONABLE SUBSURFACE SOIL CONDITIONS EXIST SUCH AS POOR DRAINAGE CONDITIONS, RUBBLE OR OBSTRUCTIONS, REPORT TO THE LANDSCAPE ARCHITECT AND CONSTRUCTION MANAGER BEFORE PLANTING.
- 3.9) GRADING:
- A) VERIFY GRADES PRIOR TO PLANTING, THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTED GRADES ARE AS INDICATED ON PLANS, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF ADJUSTMENTS TO PLANT PLACEMENT MAY BE REQUIRED DUE TO FIELD CONDITIONS AND FINAL GRADING.
- B) POSITIVE DRAINAGE SHALL BE MAINTAINED AWAY FROM AND AROUND BUILDINGS (REFER TO ENGINEERS GRADING PLANS), REPORT ANY CONFLICTS TO HAWK DESIGN, INC. PRIOR TO INSTALLATION.
- C) FINISH GRADE OF PLANTINGS SHALL BE EQUIVALENT TO FORMER EXISTING GRADE OF PLANT IN THE NURSERY.

3.10) BALLED AND BURLAPED (B&B) MATERIALS: A) OUT WIRE BASKETS ONCE IN THE PLANT PIT AND PEEL WIRE BACK.

B) TAGS AND TWINE ARE TO BE REMOVED AND BURLAP IS TO BE ROLLED BACK ONE-THIRD ON ALL B&B PLANT MATERIAL, ANY SYNTHETIC BURLAP SHALL BE COMPLETELY REMOVED FROM ANY PLANT MATERIAL

### Plant Installation Cont'd

- 3.11) CONTAINER GROWN STOCK: SHALL BE REMOVED FROM CONTAINER BY CUTTING CONTAINER AWAY TO AVOID ROOT DAMAGE TO PLANT ROOT SYSTEM, IF PLANT ROOT IS BOUND, SLICE ROOT BALLS APPROXIMATELY 2" DEEP WITH KNIFE OR SHARP SPADE.
- 3.12) DO NOT USE MUDDY OR FROZEN SOIL TO BACKFILL PLANTINGS. 3.13) WATERING: THOROUGHLY WATER UNTIL SOIL IS SATURATED AROUND ALL TREES AND
- SHRUBS AFTER PLANTING AND THROUGHOUT THE TIME PERIOD UNTIL FINAL ACCEPTANCE FROM CLIENT, DURING DRY CONDITIONS, WATER AS REQUIRED TO MAINTAIN PLANTS IN A WILT-FREE CONDITION.
- PRESERVE THEIR NATURAL CHARACTER AND TYPICAL GROWTH HABIT. PRUNING SHALL BE RESTRICTED IN GENERAL TO THE SECONDARY BRANCHES AND SUCKER GROWTH, ALL CUTS TO BE FLUSH WITH TRUNK, DO NOT CUT A LEADER. THE LANDSCAPE ARCHITECT WILL REJECT ALL PLANTS DISFIGURED BY POOR PRUNING PRACTICES, ALL PRUNING CUTS SHALL REMAIN UNPAINTED.
- 3.15) <u>Staking and Guying:</u> All trees to be staked and guyed within 48 hours of PLANTING, METHODS AND MATERIALS FOR STAKING AND GUYING ARE ILLUSTRATED IN INDIVIDUAL PLANTING DETAILS. NEATLY FLAG ALL GUY WIRES WITH ROT RESISTANCE YELLOW TREE MARKING RIBBON.
- 3.16) STAKE OUT PLANT LOCATIONS: PRIOR TO PLANTING THE CONTRACTOR SHALL LAYOUT THE EXTENT OF THE PLANT BEDS AND PROPOSED LOCATIONS FOR B&B PLANTS FOR REVIEW BY THE OWNER AND LANDSCAPE ARCHITECT.
- 3.17) PLANTING FIELD ADJUSTMENTS: A) THE CONTACTOR IS TO SLIGHTLY ADJUST PLANT LOCATIONS IN THE FIELD AS NECESSARY TO BE CLEAR OF DRAINAGE SWALES AND UTILITES.
- B) LARGE GROWING PLANTS ARE NOT TO BE PLANTED IN FRONT OF WINDOWS OR UNDER BUILDING OVERHANGS, NOTIFY THE LANDSCAPE ARCHITECT OF DISCREPANCIES IN PLANTING PLAN VS. FIELD CONDITIONS.
- C) SHRUBS PLANTED NEAR HVAC UNITS ARE TO BE LOCATED SO THAT SHRUBS AT MATURITY WILL MAINTAIN ONE FOOT (1') AIRSPACE BETWEEN THE UNIT AND THE PLANT, ANY PLANTING SHOWN ADJACENT TO CONDENSER UNITS SHALL BE PLANTED TO SCREEN THE UNITS. SHOULD THE CONDENSER UNITS BE INSTALLED IN LOCATIONS DIFFERENT FROM THOSE SHOWN ON THE PLAN, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE LANDSCAPE ARCHITECT AND INSTALL THE MATERIAL AROUND THE CONDENSERS AND ADJUST THE OTHER PLANTING ACCORDINGLY.
- 3.18) PLANT BED EDGES/LINES: GROUPS OF SHRUBS, PERENNIALS AND GROUNDCOVERS SHALL BE PLACED IN A CONTINUOUS MULCH BED WITH SMOOTH CONTINUOUS LINES. ALL MULCHED BED EDGES SHALL BE CURVILINEAR IN SHAPE, FOLLOWING THE CONTOUR OF THE PLANT MASS. TREES LOCATED WITHIN 4 FEET OF PLANT BEDS SHALL SHARE THE SAME MULCH BEDS.
- 3.19) A.D.A. THE AMERICAN WITH DISABILITIES ACT STANDARDS REQUIRE THAT A 7 FOOT VERTICAL CLEARANCE BE MAINTAINED FROM TREE BRANCHES TO FINISHED GRADE WHERE PEDESTRIANS SIDEWALKS AND/OR TRAILS ARE LOCATED. THE CONTRACTOR IS TO ADJUST TREE PLANTINGS IN FIELD TO SLIGHTLY MINIMIZE BRANCH OVERHANG AND COMPLY WITH THE A.D.A. ACT.
- 3.20) TREE SPACING MINUMUMS: TREES SHALL BE LOCATED A MINIMUM OF 4 FEET FROM RETAINING WALLS AND WALKS WITHIN THE PROJECT. IF A CONFLICT ARISES BETWEEN ACTUAL SIZE OF AREA AND PLANS, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT FOR RESOLUTION, FAILURE TO MAKE SUCH CONFLICTS KNOWN TO LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR'S LIABILITY TO RELOCATE MATERIALS.

#### Seeding and Sodding:

- 4.1) SEEDING OF LAWN AREAS: GRASS SEED APPLICATION SHALL BE SPREAD AT THE RATE OF 5 LBS, PER 1,000 SQUARE FEET, SEEDING SHALL BE ACCOMPLISHED BY MEANS OF A HYDRO-SEEDING PROCESS.
- 4.2) WATERING OF SEEDED AREAS: 24 HOURS AFTER HYDRO SEEDING, THE CONTRACTOR SHALL WATER THE SEEDED AREA LIGHTLY AND SUFFICIENTLY TO A DEPTH OF TWO INCHES (2") 2 TIMES A DAY (BETWEEN THE HOURS OF 7 PM AND 7 AM), UNTIL THE SEEDS ARE ESTABLISHED.
- 4.3) SEEDED AREA PROTECTION: THE CONTRACTOR SHALL ERECT SUITABLE SIGNS AND BARRICADES NOTIFYING THE PUBLIC TO KEEP OFF THE SEEDED AREAS UNTIL WELL ESTABLISHED, ANY TRAFFIC DAMAGE AND VANDALISM THAT MAY OCCUR PRIOR TO FINAL ACCEPTANCE OF THE WORK SHALL BE REPAIRED AND RESEEDED AT THE OWNER'S EXPENSE, ANY DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.
- BY CONTRACTOR, SHALL BE FRESHLY CUT FROM THE SAME FIELD WITH 1/2 -3/4 INCHES OF SOIL, SOD SHALL BE LAID IMMEDIATELY WITH ANY STORED SOD BEING UNROLLED GRASS SIDE UP AND KEPT WATERED. LAY COURSES TIGHTLY TOGETHER WITHOUT OVERLAPPING WITH THE JOINTS STAGGERED. AFTER GODDING IS COMPLETE, ROLL LIGHTLY. THE CONTRACTOR SHALL WATER THE SODDED AREAS TO A DEPTH OF AT LEAST SIX INCHES AFTER THE SODDING PROCESS. OWNER SHALL THEN BE RESPONSIBLE FOR WATERING. THE FREQUENCY SHALL BE DETERMINED BY RAIN FALL AND WINDS WITH THE UPPER TWO OR THREE INCHES OF SOIL NOT DRYING OUT MARKEDLY.
- 4.5) SODDED AREA: INSPECTION AND ACCEPTANCE: FOUR WEEKS AFTER CONTRACTOR COMPLETES INSTALLATION, LANDSCAPE ARCHITECT SHALL INSPECT THE LAWN TO DETERMINE THE ACCEPTABILITY OF THE INSTALLATION, SODDED AREAS FAILING TO SHOW ADEQUATE ROOTING INTO THE SUBSOIL, OVERLAPPING, COURSE SEPARATION, UNEVENNESS OF THE SURFACE, UNEVEN COURSE COLOR AND EXCESSIVE BROADLEAF WEED CONTENT SHALL BE REPLACED. THE COST SHALL BE BORNE BY THE CONTRACTOR EXCEPT WHERE VANDALISM OR NEGLECT ON THE PART OF OTHERS NOT UNDER THE CONTRACTORS CONTROL HAS RESULTED IN DAMAGE.
- 4.6) FINAL APPROVAL: SEEDED AND SODDED AREAS WILL RECEIVE FINAL APPROVAL IF COVERAGE IS FULL AND CONSISTENT, FREE OF BARE SPOTS AND WEED FREE, WHEN GRASS IS OUT AT 2" HEIGHT NO SOIL SHOULD BE VISIBLE. SOD AREAS MUST HAVE RECEIVED A MINIMUM OF TWO MOWINGS. AREAS SODDED AFTER NOVEMBER 1ST WILL BE ACCEPTED THE FOLLOWING SPRING - ONE MONTH AFTER THE START OF THE GROWING SEASON, IF THE ABOVE CRITERIA HAS BEEN MET.

3.14) PRUNING: TREES SHALL BE PRUNED TO BALANCE TOP GROWTH WITH ROOTS AND TO

4.4) LAYING OF SOD: A KENTUCKY BLUEGRASS SOD MIX - BY LOCAL SOURCE AS SELECTED

#### Maintenance

- 5.1) MAINTENANCE DURING INSTALLATION: MAINTENANCE OPERATIONS SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PLANTED AND SHALL CONTINUE AS REQUIRED UNTIL FINAL ACCEPTANCE AND THEN FOR THE GUARANTEE PERIOD, PLANTS SHALL BE KEPT IN A HEALTHY, GROWING CONDITION BY WATERING, PRUNING, SPRAYING, WEEDING AND ANY OTHER NECESSARY OPERATIONS OF MAINTENANCE. PLANT SAUCERS AND BEDS SHALL BE KEPT FREE OF WEEDS, GRASS AND OTHER UNDEGIRED VEGETATION, PLANTS SHALL BE INSPECTED AT LEAST ONCE PER WEEK BY THE CONTRACTOR DURING THE INSTALLATION PERIOD AND ANY NEEDED MAINTENANCE IS TO BE PERFORMED PROMPTLY.
- 5.2) <u>GRASS AND WEED CONTROL:</u> THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOWING ALL GRASS AROUND LANDSCAPE BEDS AND INDIVIDUAL TREES AND SHRUBS UNTIL FINAL ACCEPTANCE, WEED CONTROL AREAS SHALL INCLUDE ALL LANDSCAPE BEDS AND THE AREA WITHIN 2 FEET OF THE OUTER EDGE OF THE MULCH AREA OR INDIVIDUAL TREE/SHRUBS.
- 5.3) THE CONTRACTOR SHALL WATER, FERTILIZE, WEED, CULTIVATE, REMULCH, SPRAY TO CONTROL INSECT INFESTATION AND DISEASE AND PERFORM ANY OTHER GOOD HORTICULTURAL PRACTICE NECESSARY TO MAINTAIN THE PLANTS IN A LIVING HEALTHY CONDITION UPON THE TIME FOR TERMINATION OF HIS RESPONSIBILITY FOR CARE AS SET OUT HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLANTS THROUGHOUT LIFE OF THE CONTRACT.
- 5.4) ALL PLANTS STOLEN, DAMAGED OR DESTROYED BY FIRE, AUTOMOBILES. VANDALISM OR ANY OTHER CAUSE, WITH THE EXCEPTION OF PLANTS DAMAGED OR DESTROYED BY THE OWNERS MAINTENANCE OPERATIONS, SHALL BE REPLACED BY THE OWNER PRIOR TO THE DATE OF FINAL ACCEPTANCE.
- 5.5) LANDSCAPE CONTRACTOR SHALL PREPARE MAINTENANCE SPECIFICATIONS AND SCHEDULE ANNUAL CARE OF ALL PLANTED AND LAWN AREAS INCLUDING FERTILIZING, WEEDING, MULCHING, BED EDGING, PRUNING AND PEST PREVENTION AND TREATMENT.

#### Plant Material Guarantee:

\*CONTRACTOR SHALL GUARANTEE IN WRITING ALL PLANT MATERIAL AND LANDSCAPE IMPROVEMENTS FOR A PERIOD OF ONE YEAR. THE GUARANTEE IS TO INCLUDE THE FOLLOWING:

- 6.1) INSPECTIONS: PERFORM PERIODIC INSPECTIONS DURING GUARANTEE PERIOD WITH RESULTING WRITTEN REPORTS TO OWNER, PROJECT ADMINISTRATOR AND LANDSCAPE ARCHITECT STATING CONDITIONS AND RECOMMEND MAINTENANCE MODIFICATIONS, THE CONTRACTOR MUST CONTACT THE OWNER AND LANDSCAPE ARCHITECT AT LEAST 10 DAYS IN ADVANCE TO SCHEDULE ACCEPTANCE INSPECTION(S).
- 6.2) REMOVAL AND REPLACEMENT OF PLANTS PROVIDED BY CONTRACTOR TO BE DONE WITHIN THIRTY DAYS OF NOTIFICATION BY OWNER OF THEIR UNSATISFACTORY CONDITION DURING GROWING SEASONS, REPLACEMENT MATERIALS MUST BE EQUAL IN TYPE AND SIZE PER THE PROJECT'S PLANT LIST.
- 6,3) WHEN REPLACEMENT PLANT SPECIES IS EITHER NOT READILY AVAILABLE OR NO LONGER SUITABLE TO EXISTING SITE CONDITIONS WRITTEN NOTICE RECOMMENDATION OF SUBSTITUTION TO BE PROVIDED TO THE OWNER AND LANDSCAPE ARCHITECT WITHIN FIFTEEN DAYS FOR APPROVAL.
- 6.4) REMOVAL OF TREE'S SUPPORTS AND DEAD LIMBS PRIOR TO END OF GUARANTEE INSPECTION PERIOD.

6.5) CONTINUE WITH MAINTENANCE, SEE SECTION 5.0

6.6) GUARANTEE SHALL BEGIN UPON DATE OF FINAL ACCEPTANCE FROM OWNER AND WILL CONTINUE FOR ONE YEAR.

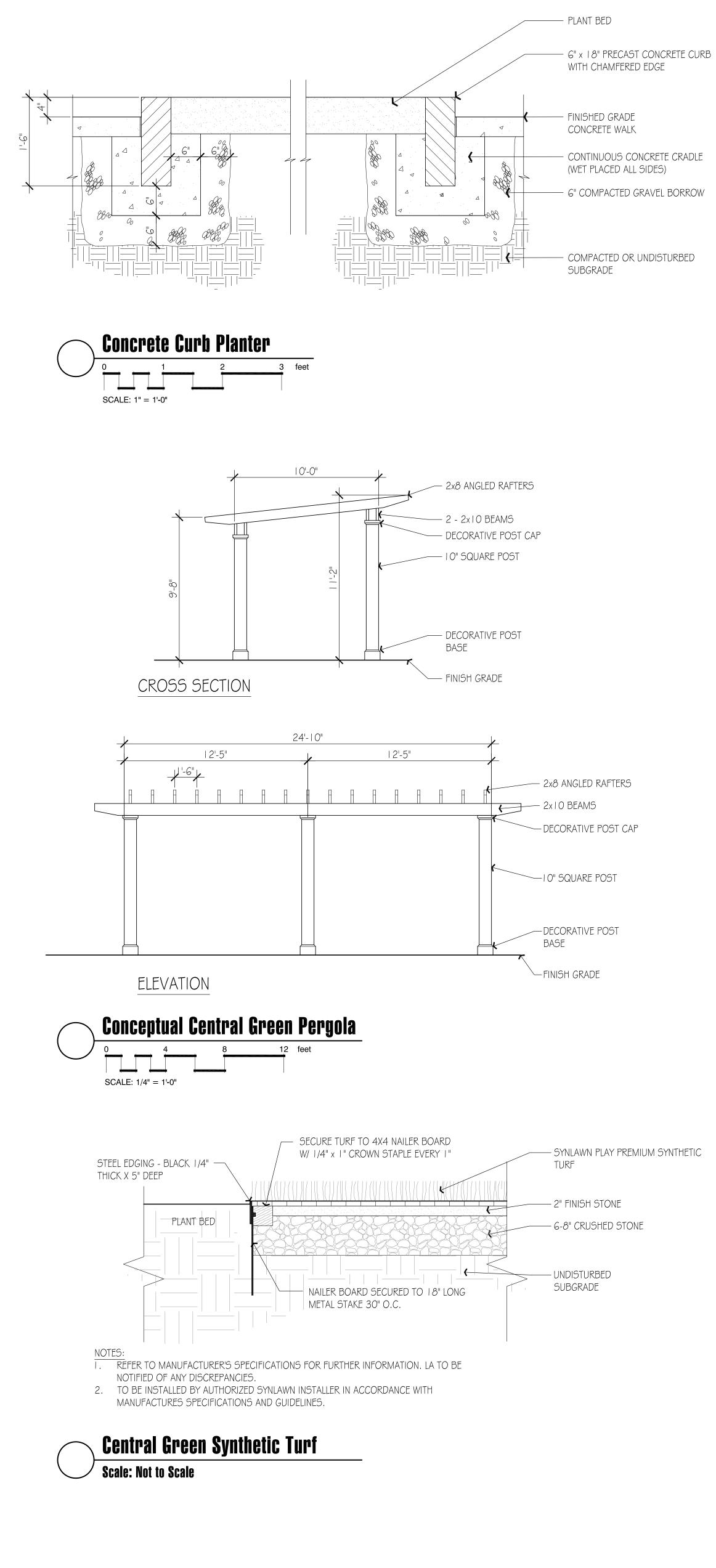
#### Site Cleanup:

7.1) SITE WORK CONDITIONS: EXCESS WASTE MATERIAL SHALL BE REMOVED DAILY WHEN PLANTING IN AN AREA HAS BEEN COMPLETED, THE AREA SHALL BE CLEARED OF ALL DEBRIS, SOIL PILES AND CONTAINERS DAILY. WHERE EXISTING GRASS AREAS HAVE BEEN DAMAGED OR SCARRED DURING PLANTING OPERATIONS, THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITIONS AT HIS EXPENSE.

1.2) CLEAN PAYED AREAS UTILIZED FOR HAULING OR EQUIPMENT STORAGE AT END OF EACH WORKDAY.

- 1.3) MAINTAIN VEHICLES AND EQUIPMENT IN CLEAN CONDITION TO PREVENT SOILING OF ROADS, WALKS OR OTHER PAYED OR SURFACED AREAS.
- 1,4) REMOVE PROTECTIVE BARRIERS AND WARNING SIGNS AT TERMINATION OF LAWN ESTABLISHMENT.

Hawk Design, I Landscape Architectur Land Planning Sagamore, MA 508-833-8800 info@hawkdesigninc.com AWK DESIGN, INC. 2019 IS DRAWING AND ALL INFORMATION CONTA REON IS PROPRIETARY INFORMATION OF HA SIGN, INC. AND MAY NOT BE COPIED OR RODUCED, EITHER IN WHOLE OR IN PART Y METHOD, WITHOUT WRITTEN PERMISSION O AWK DESIGN, INC. Date: 5/17/19 **Revisions:** Num Date Description SACHUSA ANDSCH A HUMANAN 5/221. ILC Crossing anover rawn By: BNL Checked By: TM Planting Notes Scale: As Noted Sheet:



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#### NOTES:

I. REFER TO SITE PLANTING PLANS FOR LOCATIONS OF TEXTURED AND COLORED CONCRETE.

2. CONCRETE COLOR SELECTION TO BE DETERMINED.

