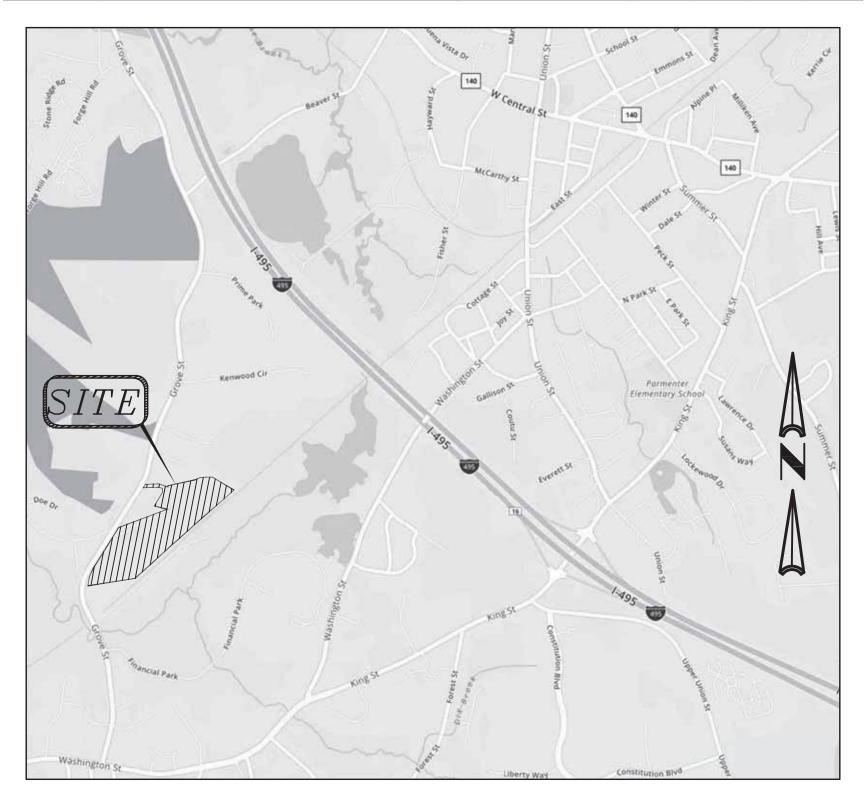
SITE DEVELOPMENT PLANS

FOR

176- 210 GROVE STREET FRANKLIN, MA

FEBRUARY 14, 2020

SHEET INDEX						
SHEET I	No. DESCRIPTION	LATEST REVISED DATE	CONSTRUCTION REVISIONS			
1	COVER SHEET	10/01/20				
2	OVERALL LAYOUT PLAN	10/01/20				
3	EXISTING CONDITIONS PLAN	10/01/20				
4	LAYOUT PLAN	10/01/20				
5	GRADING PLAN	10/01/20				
6	SEWER, DRAIN PLAN	10/01/20				
7	UTILITY PLAN	10/01/20				
8	DETAIL SHEET	10/01/20				
9	DETAIL SHEET	10/01/20				
10	DETAIL SHEET	10/01/20				
11	DETAIL SHEET	10/01/20				
12	DETAIL SHEET	10/01/20				



LOCATION MAP

OWNER/APPLICANT:

MCP III 176 GROVE LLC & MCP III 210 GROVE LLC 260 FRANKLIN STREET, STE 620 BOSTON, MA 02110

CIVIL ENGINEERS:

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

LANDSCAPE ARCHITECT:

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

BOARD			

APPROVED BY THE FRANKLIN PLANNING



0100		
TH OF MASS	SCALE NA	JOB # F: \P\2
DA ID NOEL ELLY CIUIL	DATE 02/14/20	DRAW CJL
NO. 37942	SHEET 1 OF 12	CHKD GSH
ONAL ENG	FILE #	ADDD

FILE # APP 2019-127-TS04 DNK

176- 210 GROVE STREET FRANKLIN, MA

APPROVED DATE

KELLY ENGINEERING GROUP civil engineering consultants O Campanelli Drive, Braintree, MA 02184 Phone: 781-843-4333 www.kellyengineeringgroup.com

SHEET 2 LEGEND **ZONE: INDUSTRIAL, WATER RESOURCE DISTRICT** (NOTE 5) CCB CAPE COD BERM VGC VERTICAL GRANITE CURB PROVIDED (206) PROVIDED (210) COMPLIANCE PROVIDED (176) LOT 1 LOT 2 LOT 3 CONC. CONCRETE 669,813 S.F. 457,130 S.F. MIN LOT AREA 40,000 S.F. 427,456 S.F. YES MIN. FRONTAGE 175' 175' >175' >175' YES BCC BITUMINOUS CONCRETE CURB MIN. DEPTH 200' >200' >200' YES MIN. Width 157.5' DIA. >157.5' YES HANDICAP SPACE > 157.5' >157.5' CIRCLE L.S LANDSCAPED AREA MIN YARD FRONT 125.5'+/-YES 40' 448.4'+/-249.7'+/-31.8′ +/-30.1'+/-YES CATCH BASIN (NOTE 2) (NOTE 2) (NOTE 2) (NOTE 2) 125.4' 44.7' +/-YES 92.2' +/-DOUBLE CATCH BASIN YES MAX STORIES MAX HEIGHT NA N/A <45' <45' <45' AREA DRAIN **58.6** % YES LOT COVERAGE 68.9% 72.2% TRENCH DRAIN BUILDING COVERAGE **25.1**% 35.1% **36.5**% (NOTE 3) PARKING (NOTE 3) (NOTE 3) (NOTE 3) DRAIN MANHOLE 9'X19' 9'X19' 9' X19' 9' X 19' YES YES STORM CEPTOR **HANDICAP PARKING** PARKING PARKING PARKING LEGEND LEGEND LEGEND DRAIN LINE 70' +/-PARKING >10' EXISTING LEGEND PROPOSED LEGEND SETBACKS N/A N/A N/A N/A ROOF DRAIN LINE N/A N/A N/A N/A N/A N/A — AD — - AREA DRAIN LINE BUILDING N/A N/A N/A N/A N/A HANDICAP SPACE HANDICAP SPACE SEWER MANHOLE UTILITY POLE — — — SAW CUT∕ MATCH PAVEMENT LINE 1. PARKING: REQUIRED PARKING FOR WAREHOUSE = 1 SPACE PER 1000 SF SEWER LINE PROPERTY LINE 2. BUILDINGS 176 AND 210 ARE LESS THAN 30' HIGH. SIDE YARD SETBACKS ARE GREATER THAN 30'. PROPOSED SEWER FORCE MAIN BUILDING 206 WILL BE APPROX. 45' HIGH. SIDE YARD SETBACK IS 102' AND THEREFORE SIDE YARD COMPLIES WITH BY LAW SECTION ATTACHEMENT 9 FOOT NOTE 8 FOR SETBACKS TO A RESIDENTIAL USE . GAS VALVE 3. PER PLANNING BOARD DETERMINATION. 4. 55 SPACES LOCATED ON LOT 1 ARE FOR USE BY LOT 2 GAS LINE 5. SEE APPROVAL NOT REQUIRED PLAN DATED 09/01/20 FOR ACTUAL METES AND BOUNDS, CIRCLE DIAMETER HYDRANT ETC. L=50.06' R=1050.00' WATER VALVE **PARKING LEGEND** TOWN OF FRANKLIN WATER LINE ZONE: INDUSTRIAL USE: MUNICIPAL UTILITY POLE BUILDING BUILDING PARKING PARKING HANDICAP HANDICAP LOADING PUMP STATION REQUIRED PROVIDED PARKING PARKING PROVIDED AREA LIGHT POLE **REQUIRED PROVIDED** (NOTE 1) 176 GROVE 169,968 170 65 +/-FLOOD LIGHT 48.27 206 GROVE 150,000 150 107 (NOTE 4) N/F 170 GROVE STREET, LLC N87°47'16"E 210 GROVE 166,757 l13*(NOTE 4) 15 +/-OVERHEAD ELECTRIC LINE 486,725 CHAIN LINK FENCE *ALLOWED BY 9/15/2015 PLANNING BOARD DECISION BUCK REALTY TRUST CONTOUR LINE (MNR) -XXX-IWWAR H. BUCK, TRUSTEE --xxx-— CONTOUR LINE (MJR) DRIVEWAY WA TER ZONE: INDUSTRIAL *65.00*′ (TO BE MODIFIED) RESOURCE ZONE: INDUSTRIAL USE: RESIDENTIAL S71°44'18"E 55.81' ×100.00 SPOT GRADE BOUNDARY NO 38'35"W USE: RESIDENTIAL S617'04"E EDGE OF WETLANDS ZONING SCOTT & PAULA SPENCER REALTY L=96.22' R=1350.00' BOUNDAR) • *B10* WETLANDS FLAG △=4°05′02′ LORRAINE SPENCER, WETLANDS TRUSTEE ZONE: INDUSTRIAL DRIVEWAY FLOOD PLAIN USE: RESIDENTIAL DIMENSIONS PROPERTY LINE **BOLLARD** N/F CORE REAL ESTATE IRON PIPE PROPOSED LOT LINES HOLDINGS, LLC BOUND 1,554,427 S.F. 35.7 AC. ZONE: INDUSTRIAL USE: INDUSTRIAL/ SIGN 10SED LU. 669,812.73 S.F. 15.377± AC. 15.377± AC. 15.377± AC. 15.377± AC. 15.377± AC. COMMERCIAL PROPOSED -DRIVEWAY LOT 3 457,130.25 S.F. 10.494± AC. PROPOSED LOT Vyc, 427,456.55 S.F. 9.813± AC. LOT LINES ZONE: INDUSTRIAL UNITED STATES OF USE: INDUSTRIAL **AMERICA** ZONE: INDUSTRIAL USE: UNDEVELOPED **BORDERING VEGETATED** TWO HUNDRED WETLANDS-TWENTY GROVE ST. L.P. HORSFALL No. 41608 *683.17* S48°<u>33'36"W</u> S48°33'40"W-\$48*33'36"W ZONE: INDUSTRIAL NEW YORK CENTRAL LINES, LLC USE: RAILROAD NOTES: (FOR SHEET 3) 4. 10/01/20 PER TENANT COORDINATION 1.) UNDERGROUND FEATURES HAVE BEEN COMPILED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. THIS INFORMATION IS TO BE CONSIDERED APPROXIMATE AND KELLY ENGINEERING GROUP, INC. 3. 07/28/20 PLANNING BOARD COMMENTS DOES NOT TAKE RESPONSIBILITY FOR SUBSEQUENT ERRORS OR OMISSIONS WHICH MAY HAVE BEEN CURRENT OWNER APPROVED BY THE FRANKLIN PLANNING 1"= 100' 2. 06/02/20 PER PEER REVIEW INCORPORATED INTO THIS PLAN AS A RESULT. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO KELLY ENGINEERING GROUP, INC. THE SIZE, LOCATION, BOARD DATE 1. 04/10/20 PER PEER REVIEW CURRENT OWNER: MCP III 210 GROVE LLC AND EXISTENCE OF ALL SUCH FEATURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO 02/14/20 REV DATE C/O MARCUS PROPERTIES INC. REVISION CONSTRUCTION. PARCEL ID: 311-002 MARCUS PARTNERS 176- 210 GROVE STREET FRANKLIN, MA SHEET GRAPHIC SCALE 2.) THE LOCATION OF ALL UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED USING ASCE 38-02 176 GROVE ST 2 of 12 (STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA) CURRENT OWNER: MCP III 176 GROVE LLC FILE # QUALITY LEVEL C. C/O MARCUS PARTNERS INC. PARCEL ID: 311-001 2019-127-LA04 3.) THE SITE DETAIL AND SURFACE IMPROVEMENTS DEPICTED HEREON WERE OBTAINED FROM AN ON THE GROUND SURVEY PERFORMED BY KELLY ENGINEERING GROUP IN NOVEMBER AND DECEMBER OF 2019. JOB # OVERALL LAYOUT (IN FEET) F: \P\2019-127 1 inch = 100 ft.4.) ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) **PLAN** ESTABLISHED BY RTK GPS CONNECTED TO MaCORS. CONTOURS SHOWN WERE OBTAINED FROM ON THE 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. DRAWN BY GROUND SURVEY AND LIDAR DATA OBTAINED FROM NOAA AND CONFIRMED BY KELLY ENGINEERING GROUP. SHEET NO. **KELLY ENGINEERING GROUP** THE EXTENT OF KELLY ENGINEERING GROUPS LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COST APPROVED DATE CHKD BY COPYRIGHT (C) by KELLY ENGINEERING GROUP, INC. civil engineering consultants 5.) WETLAND FLAGS SHOWN WERE FLAGGED BY ECOTEC, INC AND WERE LOCATED BY KELLY ENGINEERING All Rights Reserved GROUP, INC. 0 Campanelli Drive, Braintree, MA 02184

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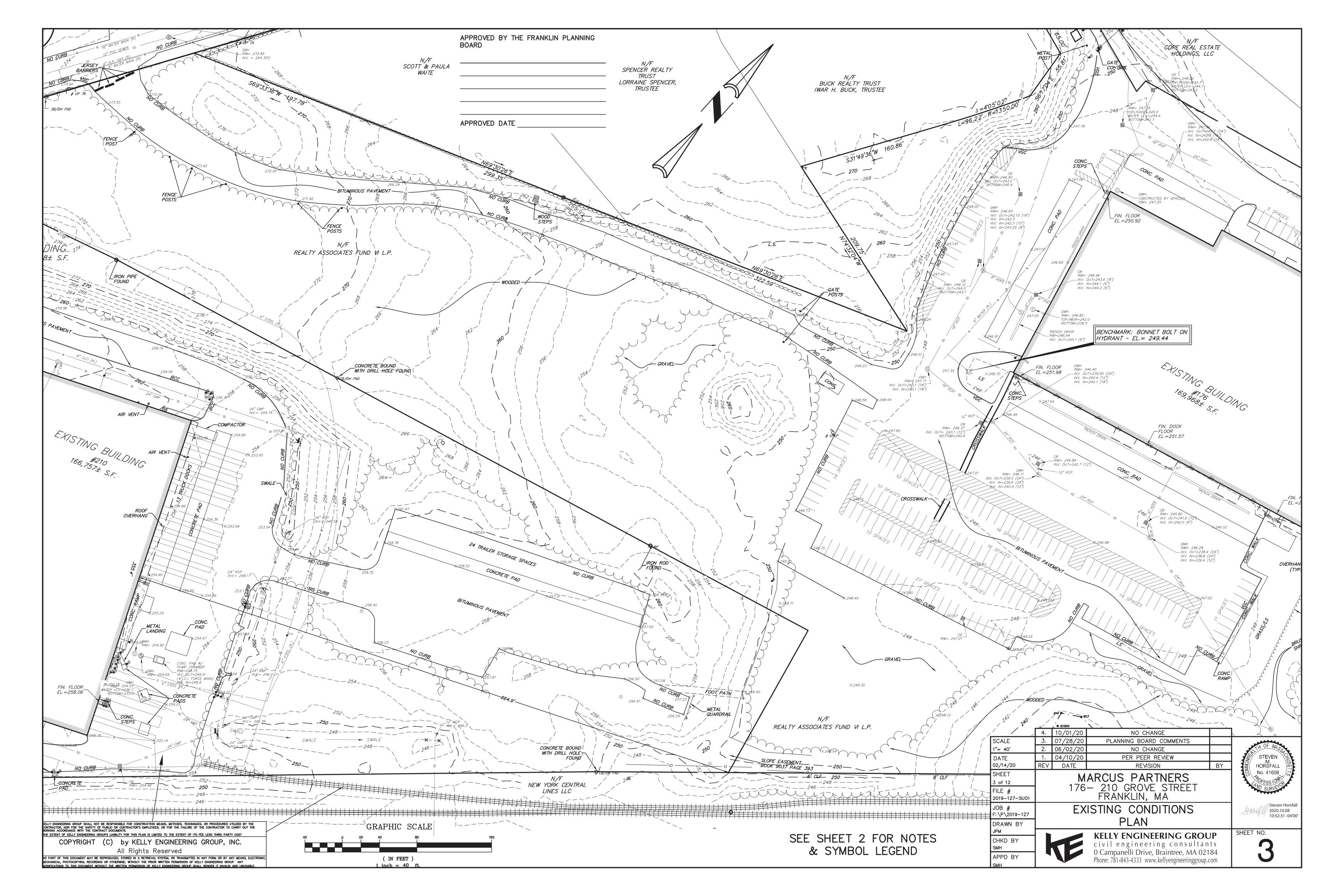
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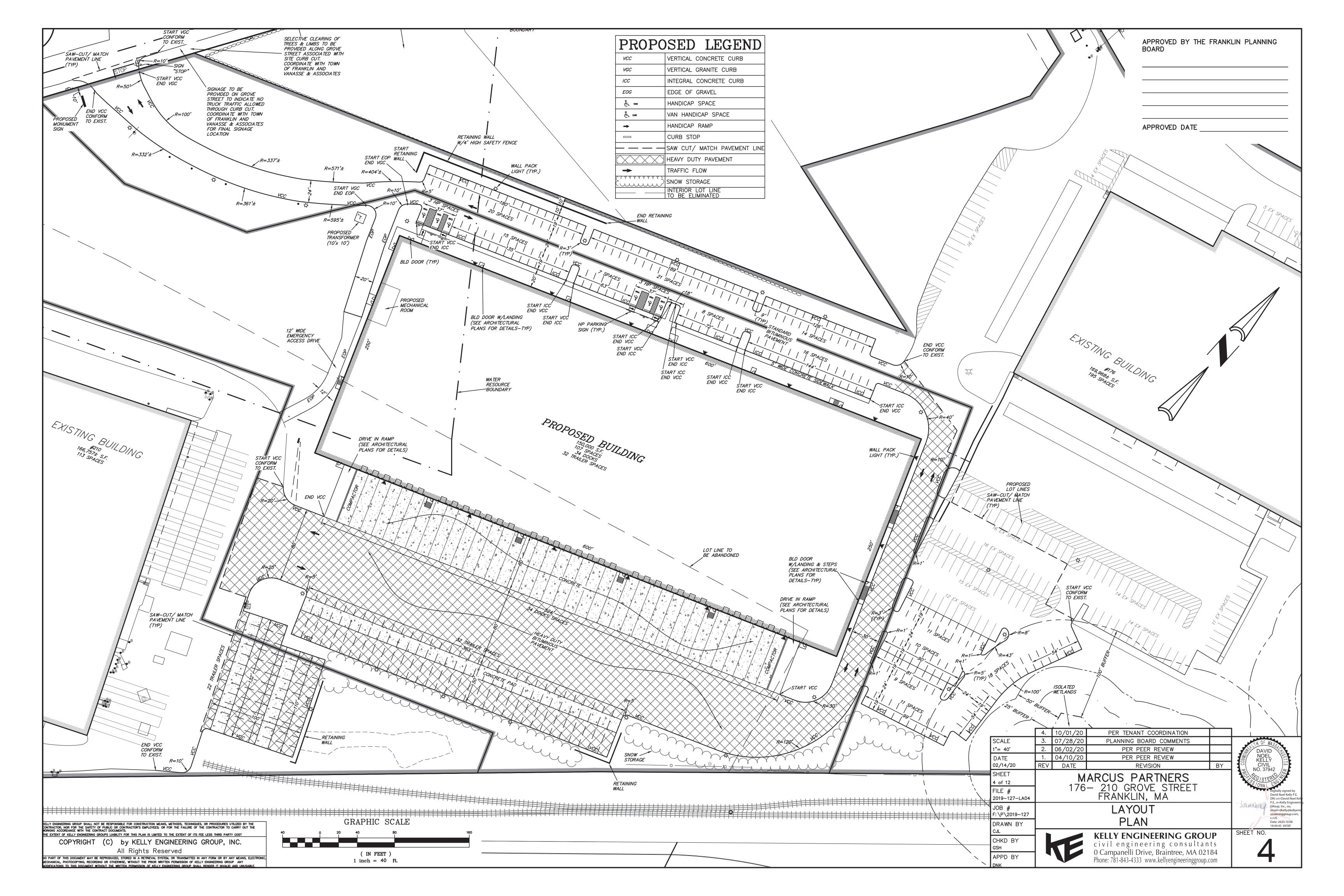
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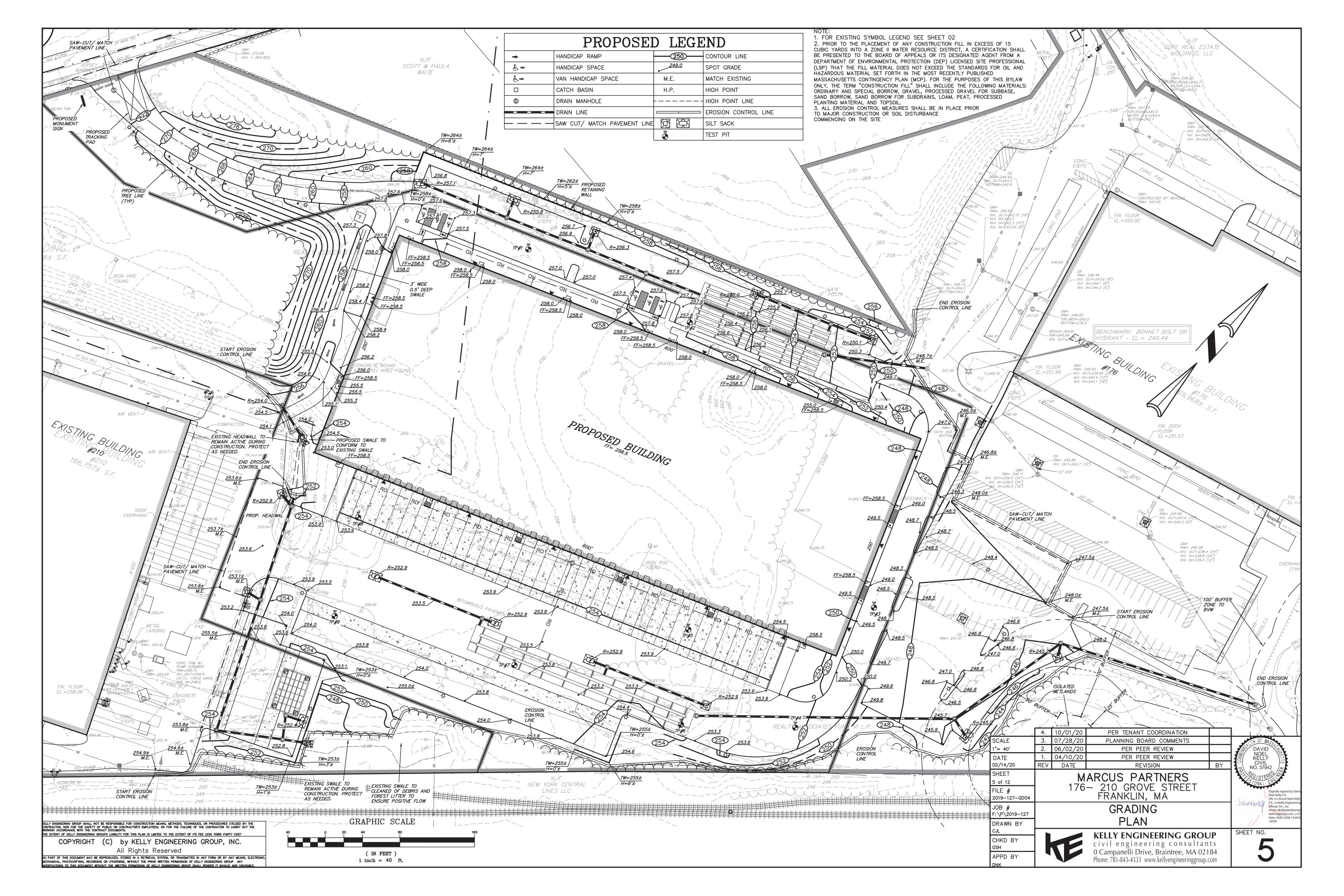
email=dkelly@kellye ineeringgroup.com, c=US Date: 2020.10.08 10:44:23 -04'00'

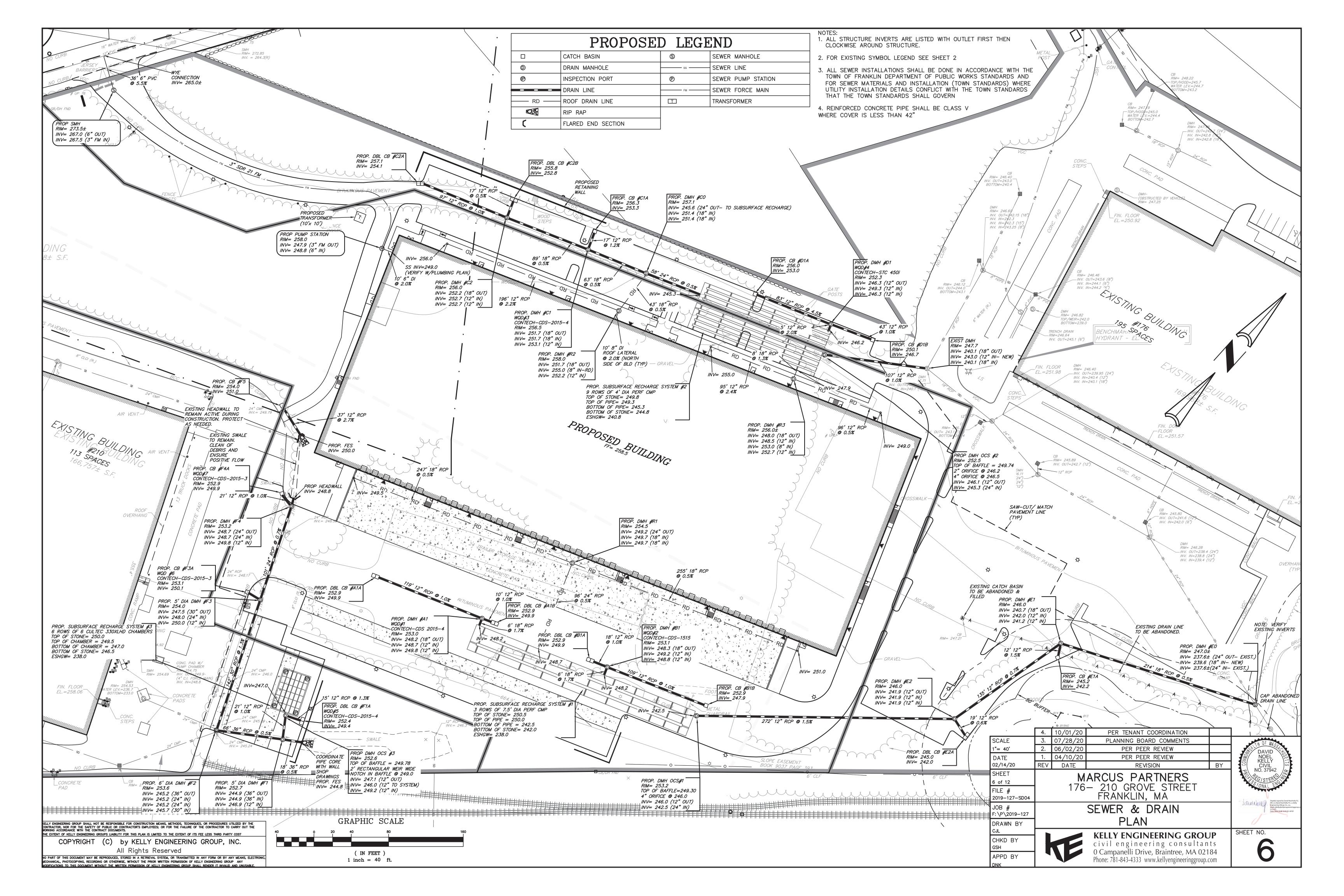
Phone: 781-843-4333 www.kellyengineeringgroup.com

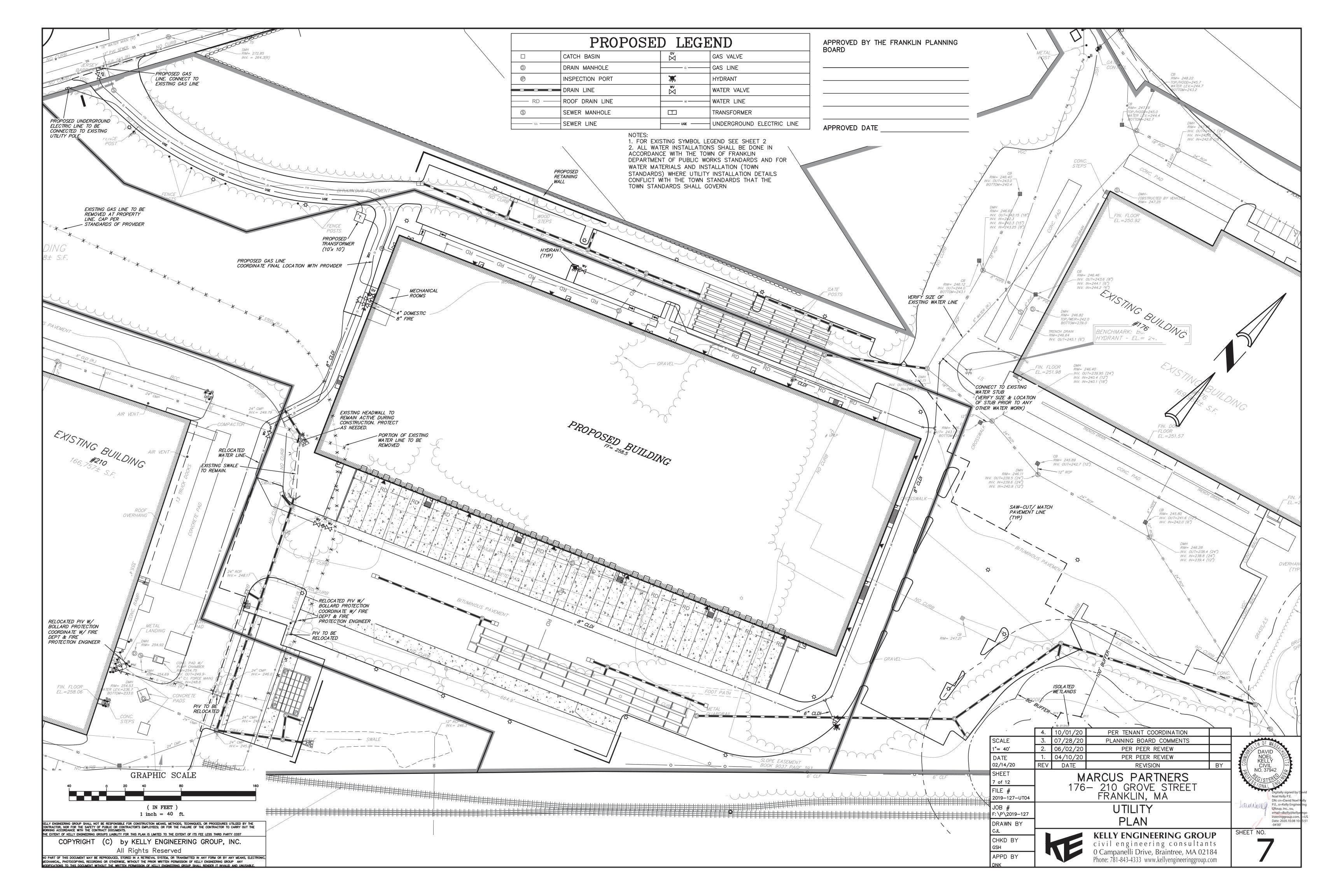
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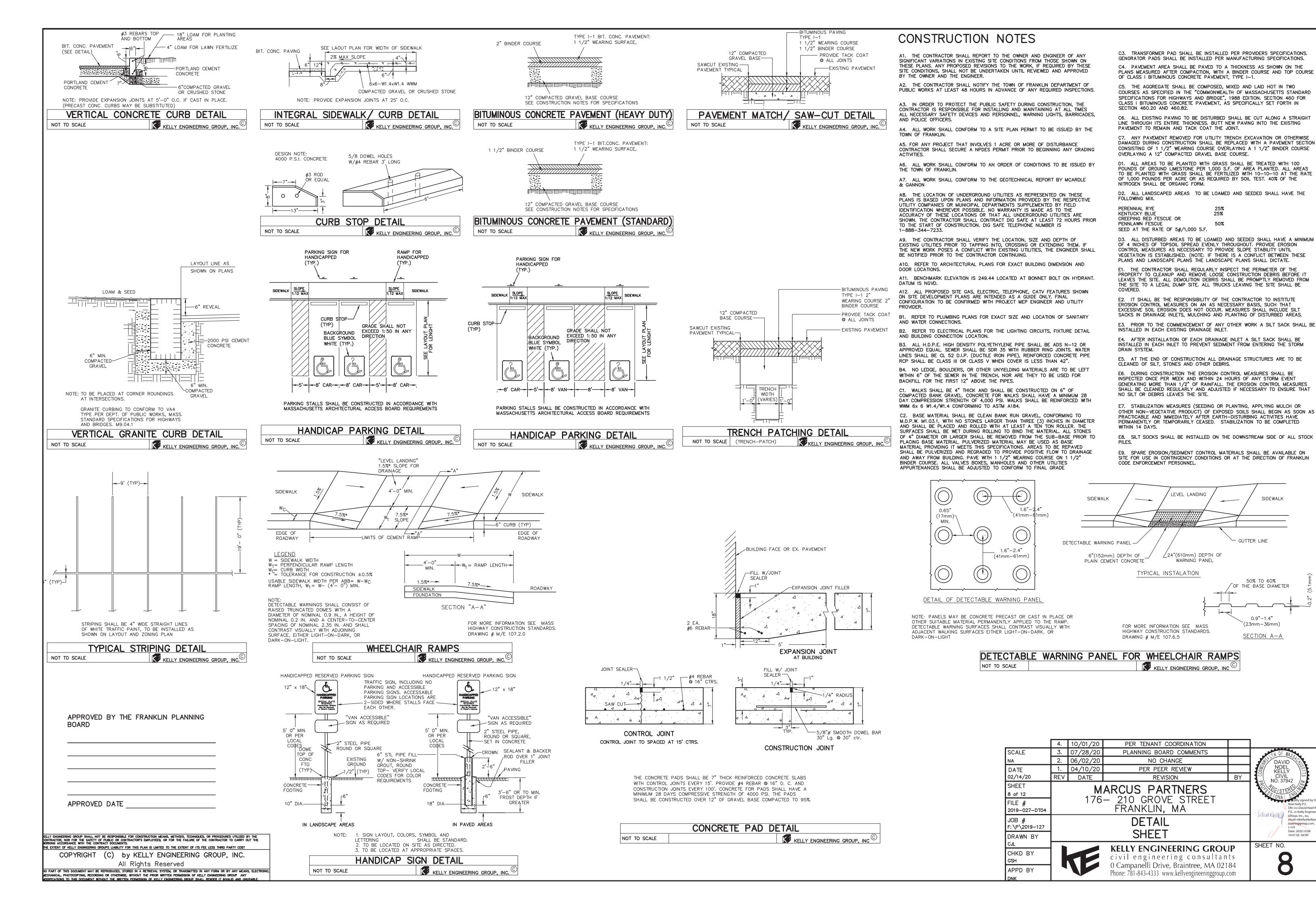


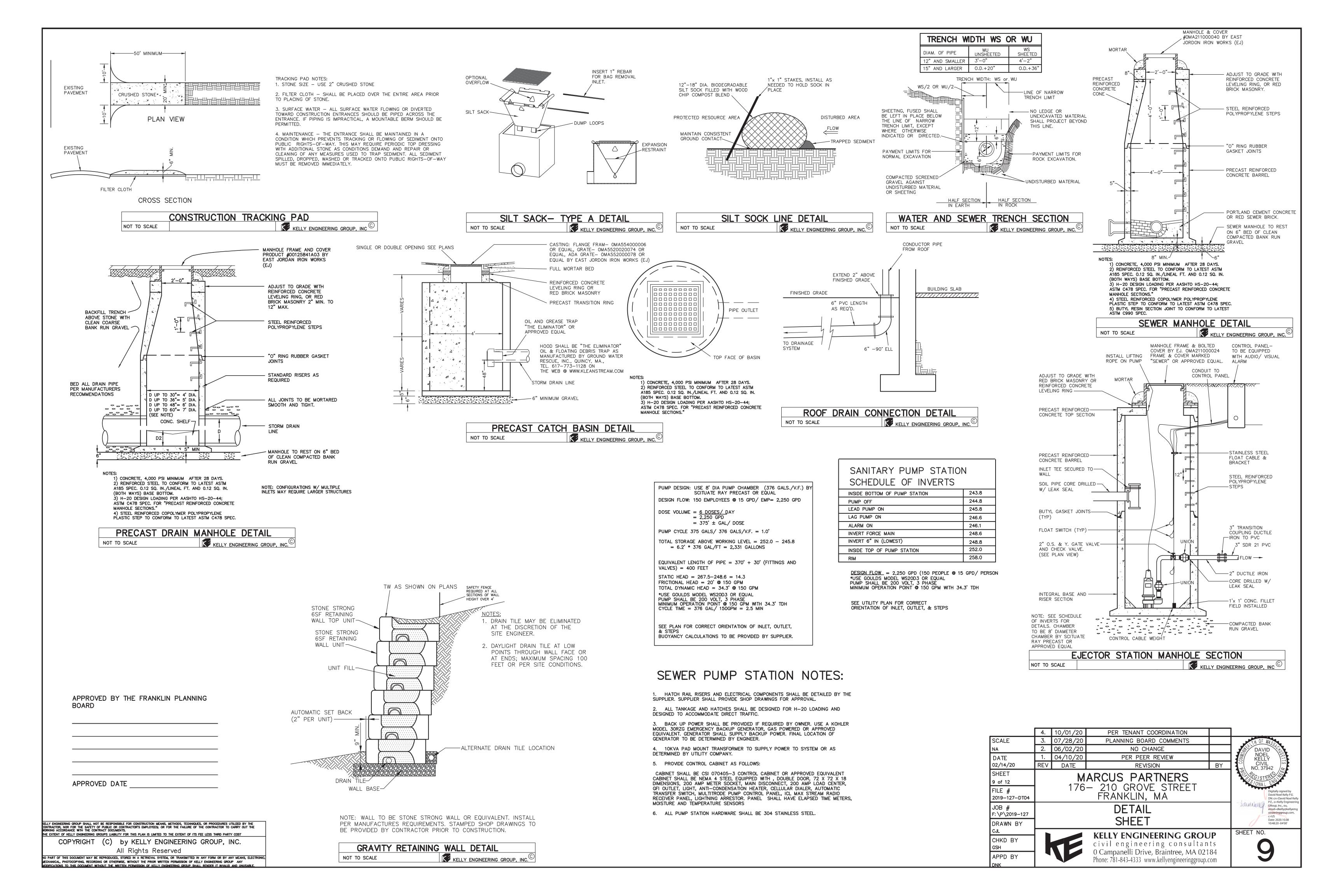


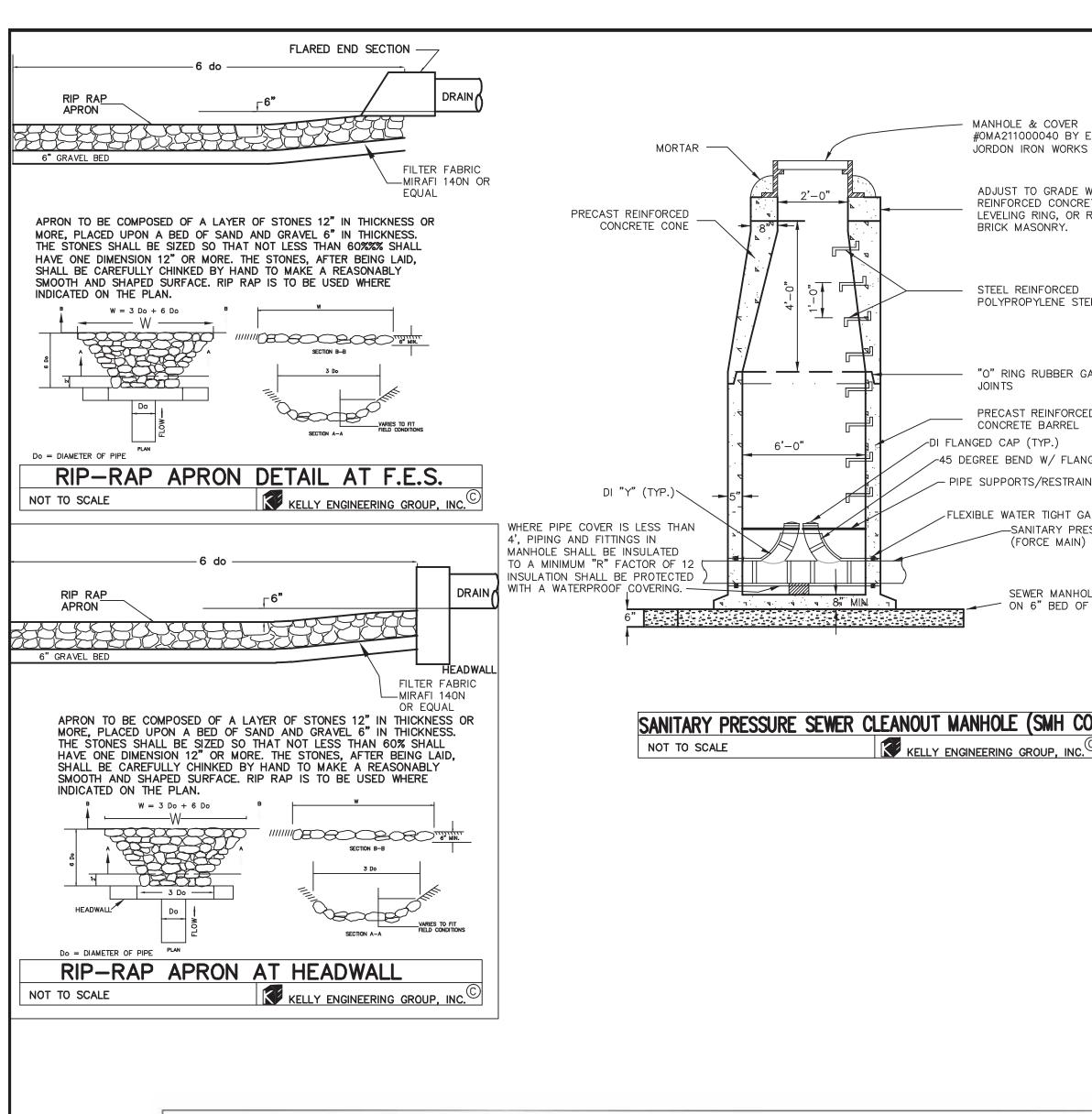


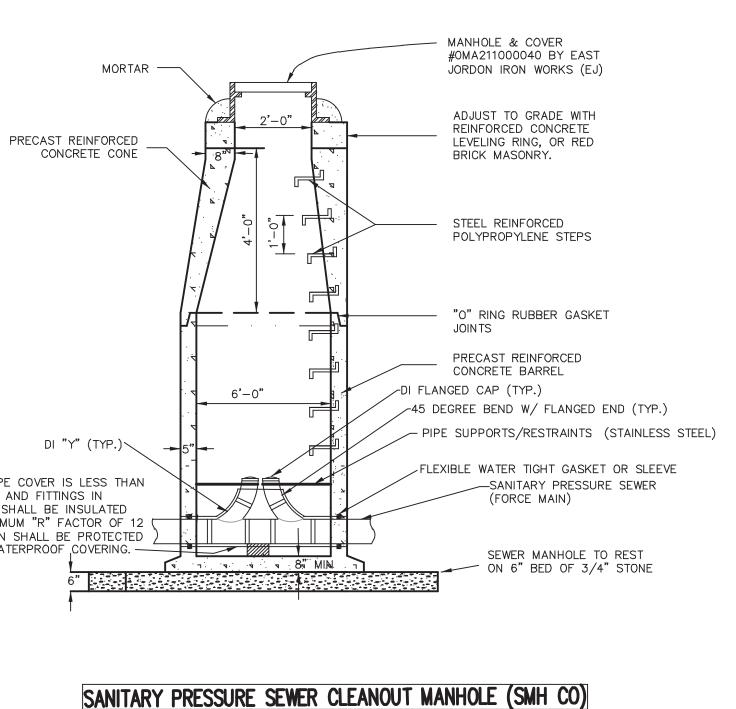


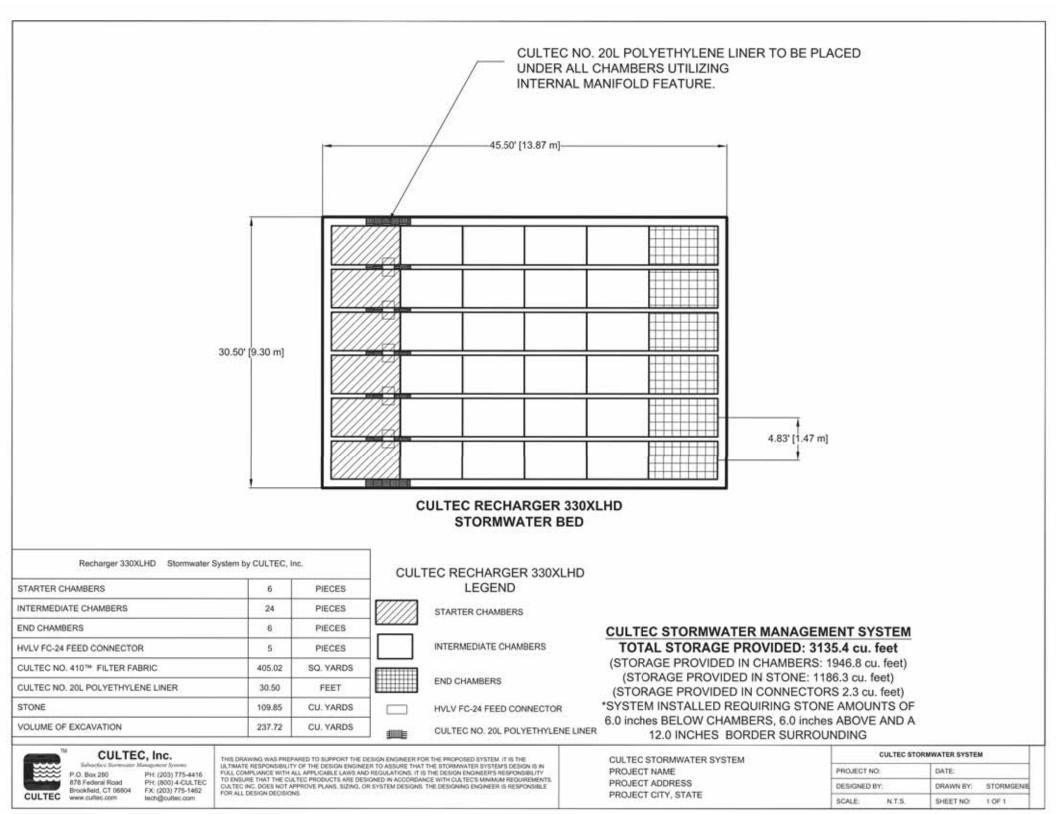


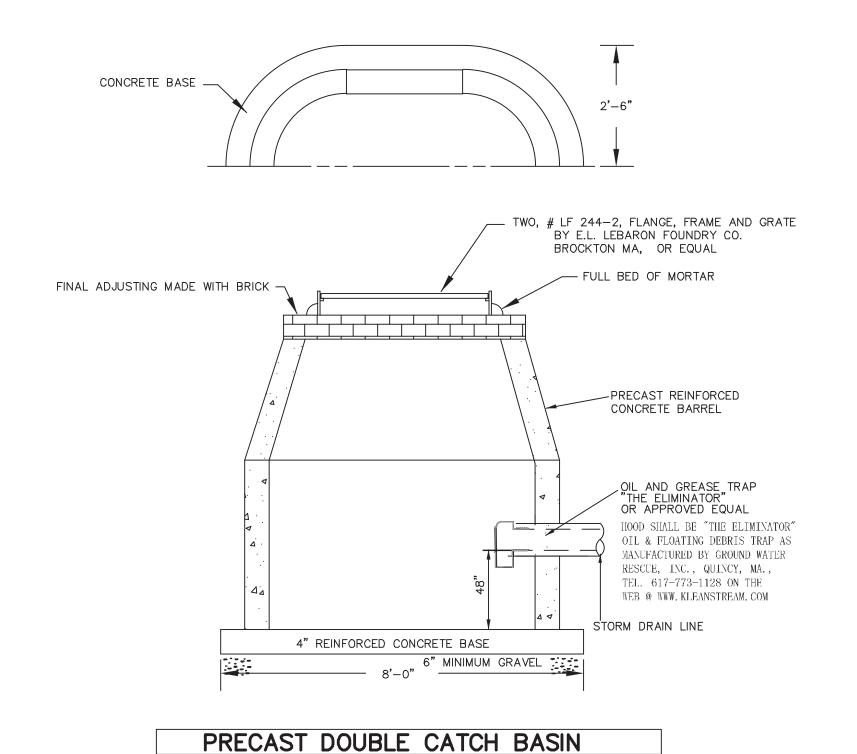








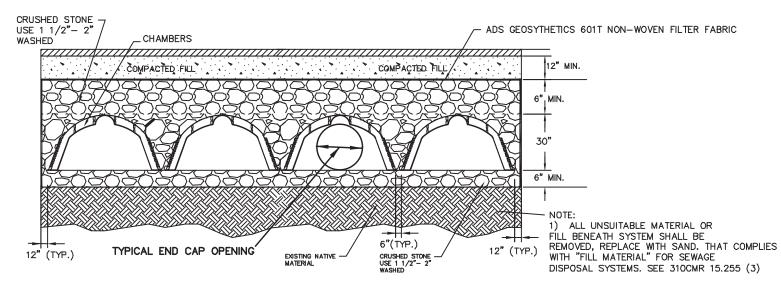




KELLY ENGINEERING GROUP, INC. NOT TO SCALE

SUBSURFACE RECHARGE CHAMBERS (CULTEC 330XLHD OR APPROVED EQUAL)

PROPRIETARY SHOP DRAWINGS TO BE PROVIDED PRIOR TO INSTALLATION



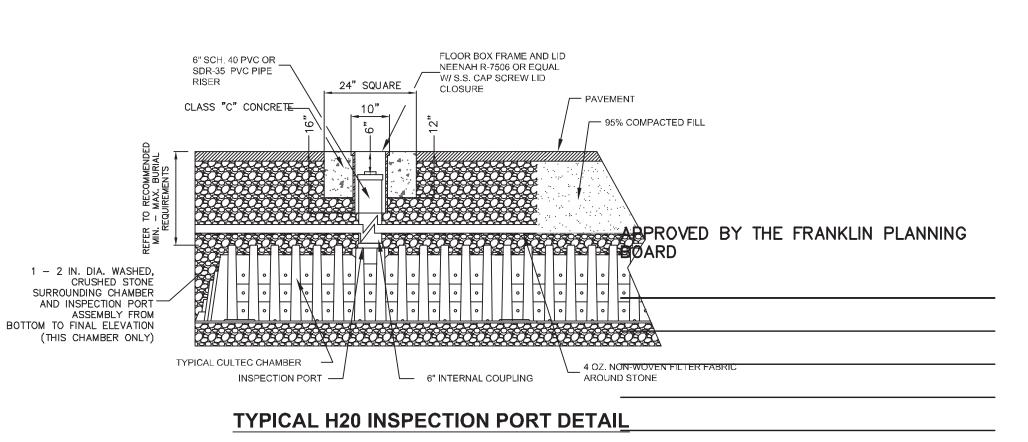
STORMWATER MANAGEMENT SYSTEM CONSTRUCTION OPERATION + MAINTENANCE NOTES:

- 1. EXTREME CARE SHALL BE TAKEN DURING CONSTRUCTION TO AVOID SILTATION DURING THE CONSTRUCTION
- 2. EXTREME CARE SHALL BE TAKEN TO PREVENT COMPACTION OF UNDISTURBED SOILS BENEATH RECHARGE SYSTEM. 3. THERE SHALL BE NO DISCHARGE OF WATER FOR CONSTRUCTION DEWATERING ACTIVITIES INTO THE STORMWATER MANAGEMENT SYSTEM.
- 4. THERE SHALL BE NO DISCHARGE OF STORMWATER INTO THE RECHARGE SYSTEM UNTIL THE SITE HAS BEEN STABILIZED.

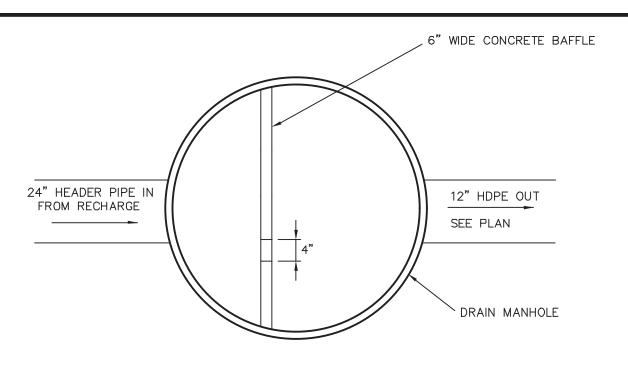
CONSTRUCTION INSPECTION SCHEDULE

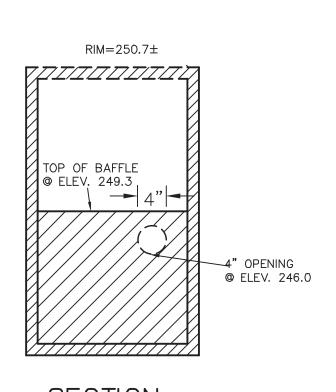
- 1. SILT SACKS AND SILT SOCKS SHALL BE INSPECTED AND REPLACED AS NECESSARY.
- 2. INSPECTIONS SHALL INCLUDE THE PAVEMENT TO DETERMINE IF ACCUMULATED SEDIMENT IS TO BE REMOVED, OF THE CATCH BASINS TO DETERMINE DEPTH OF SEDIMENTS AND REQUIRED CLEANING, AND INSPECTION OF THE RECHARGE SYSTEM TO DETERMINE IF CLEANING IS NECESSARY.
- 3. AN INSPECTION OF THE EXCAVATION OF THE RECHARGE SYSTEM SHALL BE CONDUCTED BY THE ENGINEER AND A REPRESENTATIVE THE TOWN'S ENGINEERING DEPARTMENT PRIOR TO PLACEMENT OF ANY CHAMBERS.





APPROVED DATE



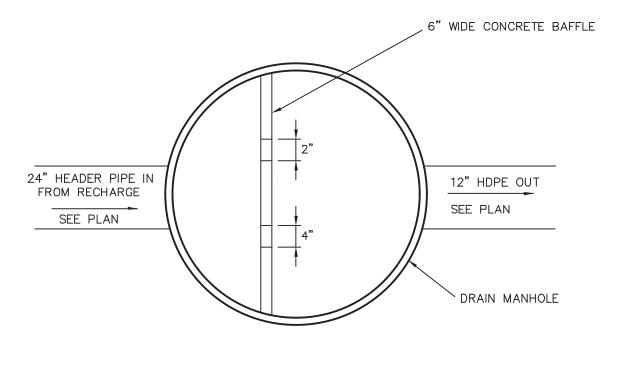


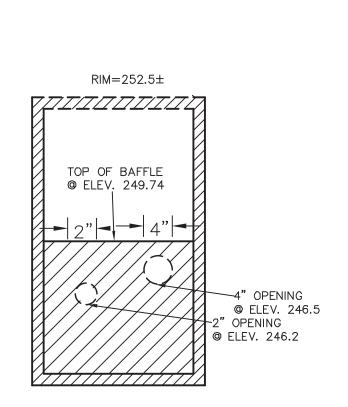
TOP VIEW

SECTION

NOTE: FOR OTHER NOTES AND DETAILS SEE TYPICAL DRAIN MANHOLE DETAIL

CONTROL STRUCTURE MANHOLE #1 KELLY ENGINEERING GROUP, INC NOT TO SCALE





TOP VIEW

SECTION

NOTE: FOR OTHER NOTES AND DETAILS SEE TYPICAL DRAIN MANHOLE DETAIL

CONTROL STRUCTURE MANHOLE #2 KELLY ENGINEERING GROUP, INC NOT TO SCALE 6" WIDE CONCRETE BAFFLE $RIM = 252.6 \pm$ 12" RCP IN TOP OF BAFFLE © ELEV. 249.78 SEE PLAN DRAIN MANHOLE 2' WIDE OPENING @ ELEV. 249.0 **SECTION**

NOTE: FOR OTHER NOTES AND DETAILS SEE TYPICAL DRAIN MANHOLE DETAIL

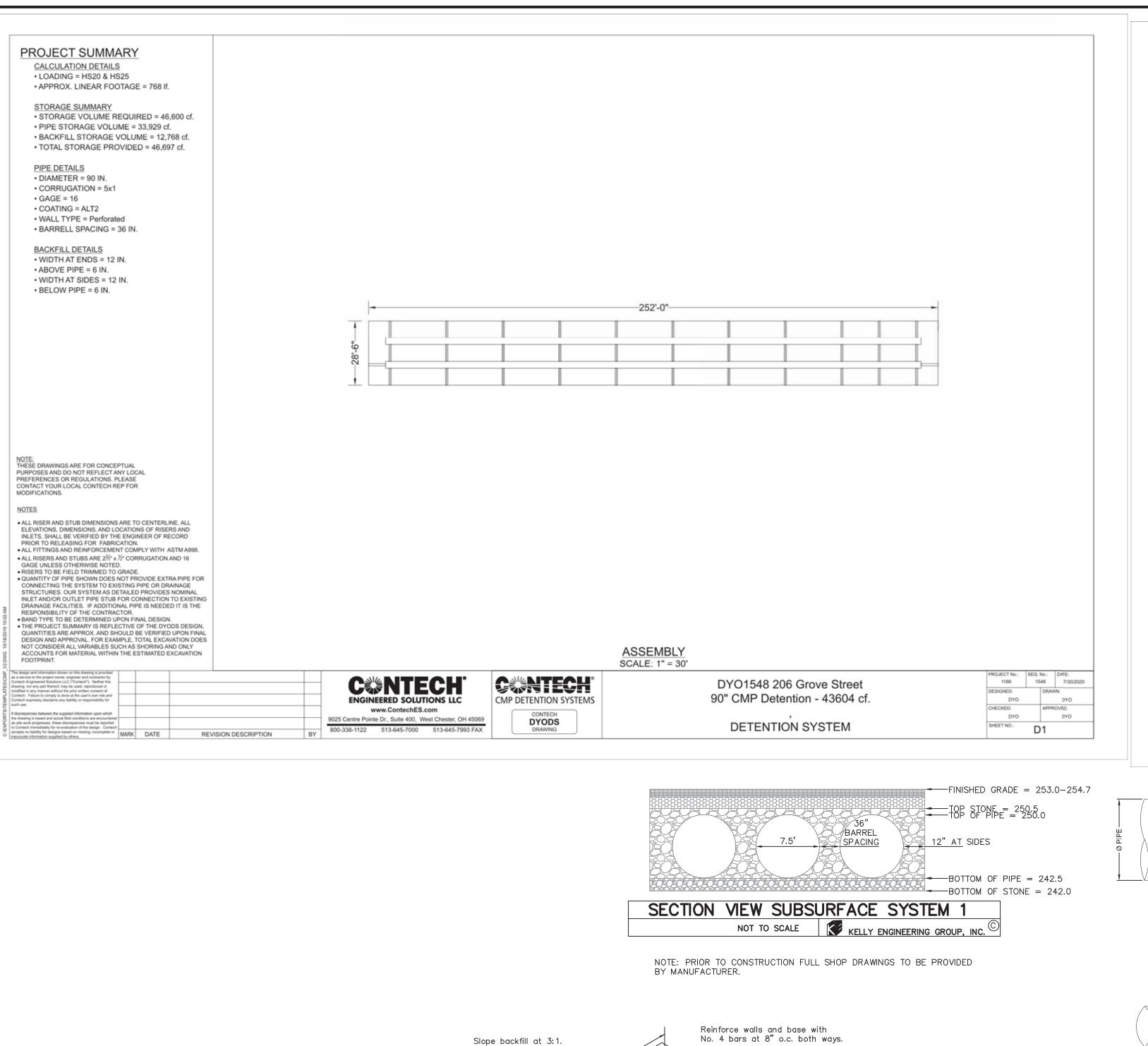
CONTROL STRUCTURE MANHOLE #3

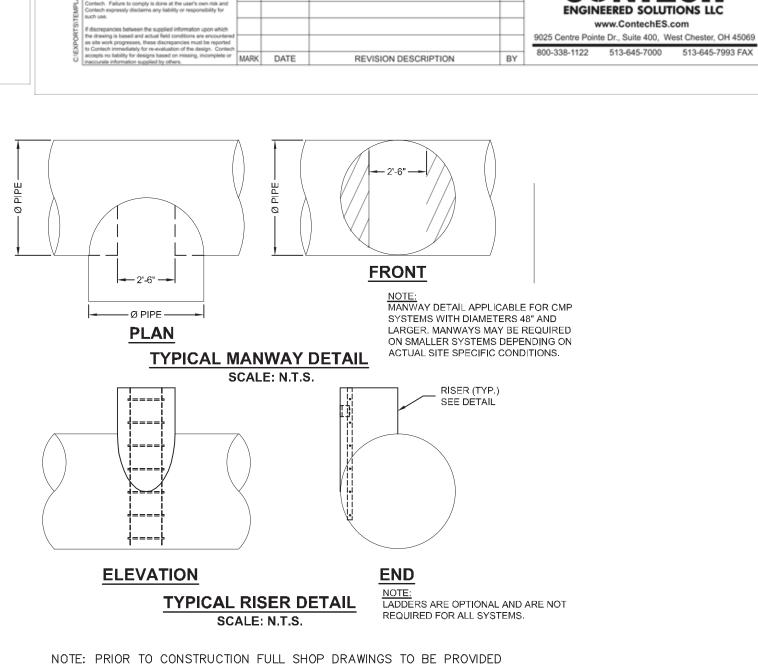
KELLY ENGINEERING GROUP, INC NOT TO SCALE

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	4.	10/01/20	PER TENANT COORDINATION		
SCALE	3.	07/28/20	PLANNING BOARD COMMENTS		TH OF MACO
NA	2.	06/02/20	NO CHANGE		DAVID
DATE	1.	04/10/20	PER PEER REVIEW		NOEL KELLY CIVII
02/14/20	REV	DATE	REVISION	BY	
SHEET 10 of 12			ARCUS PARTNERS		NO. 37942 ASSESSION OF THE PROPERTY OF THE PRO
FILE # 2019-127-DT04		1/6	 210 GROVE STREET FRANKLIN, MA 		Digitally signed by Di Noel Kelly P.E. DN: cn=David Noel K
JOB # F: \P\2019-127			DETAIL		P.E., o=Kelly Engineer GRoup, Inc., ou, email=dkelly@kellyer neeringgroup.com, c Date: 2020.10.08 10:4
DRAWN BY			SHEET		-04'00'
CJL			KELLY ENGINEERING GROU	Ι P	SHEET NO.
CHKD BY GSH			civil engineering consultan	ts	10
APPD BY			O Campanelli Drive, Braintree, MA 021 Phone: 781-843-4333 www.kellyengineeringgroup.c	com	

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BY MANUFACTURER.

PROJECT SUMMARY

LOADING = HS20 & HS25

APPROX. LINEAR FOOTAGE = 1,321 lf.

PIPE STORAGE VOLUME = 16,600 cf.

BACKFILL STORAGE VOLUME = 9,236 cf.

• TOTAL STORAGE PROVIDED = 25,836 cf.

STORAGE VOLUME REQUIRED = 25,800 cf.

CALCULATION DETAILS

STORAGE SUMMARY

PIPE DETAILS

GAGE = 16

COATING = ALT2

BACKFILL DETAILS

ABOVE PIPE = 6 IN.

BELOW PIPE = 6 IN.

NOTE: THESE DRAWINGS ARE FOR CONCEPTUAL

PURPOSES AND DO NOT REFLECT ANY LOCAL

PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR

ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE. ALL

ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD

 ALL RISERS AND STUBS ARE 2³/₂" x ½" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.

RISERS TO BE FIELD TRIMMED TO GRADE.

QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR

PRIOR TO RELEASING FOR FABRICATION.

• ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.

CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING

DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR. BAND TYPE TO BE DETERMINED UPON FINAL DESIGN.
 THE PROJECT SUMMARY IS REFLECTIVE OF THE DYODS DESIGN, QUANTITIES ARE APPROX. AND SHOULD BE VERIFIED UPON FINAL.

DESIGN AND APPROVAL. FOR EXAMPLE, TOTAL EXCAVATION DOES NOT CONSIDER ALL VARIABLES SUCH AS SHORING AND ONLY

ACCOUNTS FOR MATERIAL WITHIN THE ESTIMATED EXCAVATION

DIAMETER = 48 IN.

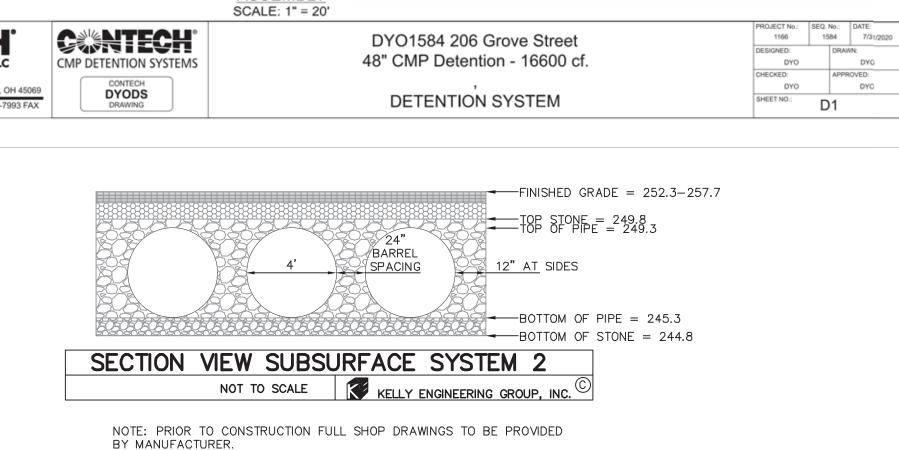
CORRUGATION = 2 2/3x1/2

WALL TYPE = Perforated

· WIDTH AT ENDS = 12 IN.

· WIDTH AT SIDES = 12 IN.

BARRELL SPACING = 24 IN.



-145'-0"-

APPROVED BY THE FRANKLIN PLANNING **BOARD**

APPROVED DATE

	4.	10/01/20	PER TENANT COORDINATION		
SCALE	3.	07/28/20	PLANNING BOARD COMMENTS		TH OF MAS
NA	2.	06/02/20	NO CHANGE		DAVID
DATE	1.	04/10/20	PER PEER REVIEW		NOEL KELLY
02/14/20	REV	DATE	REVISION	BY	CIVIL NO. 37942
SHEET		M	ARCUS PARTNERS		
11 of 12					COSTER ONAL E
FILE # 2019–127–DT04		1/6	 210 GROVE STREET FRANKLIN, MA 		Digitally Noel Kell DN: cn=E P.E., o=K
JOB # F: \P\2019–127			DETAIL		GRoup, I email=d neering Date: 20. -04'00'
DRAWN BY			SHEET		
CJL			KELLY ENGINEERING GROU	J P	SHEET NO.

KELLY ENGINEERING GROUP civil engineering consultants O Campanelli Drive, Braintree, MA 02184 Phone: 781-843-4333 www.kellyengineeringgroup.com

APPD BY

DYO

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HEADWALL L_2 Round entrance corners, R=3" 0.5 7.5' 12" **35**° 0.5 8.0' 3.7' 15" 3.7 0.5' 8.0' 3.0' 0.5 7.5 12" 3.5 13' 0.5' 6.8 4.0' 5.7**'** 42" 0.5 5.7' 6.8' 13' 4.0'

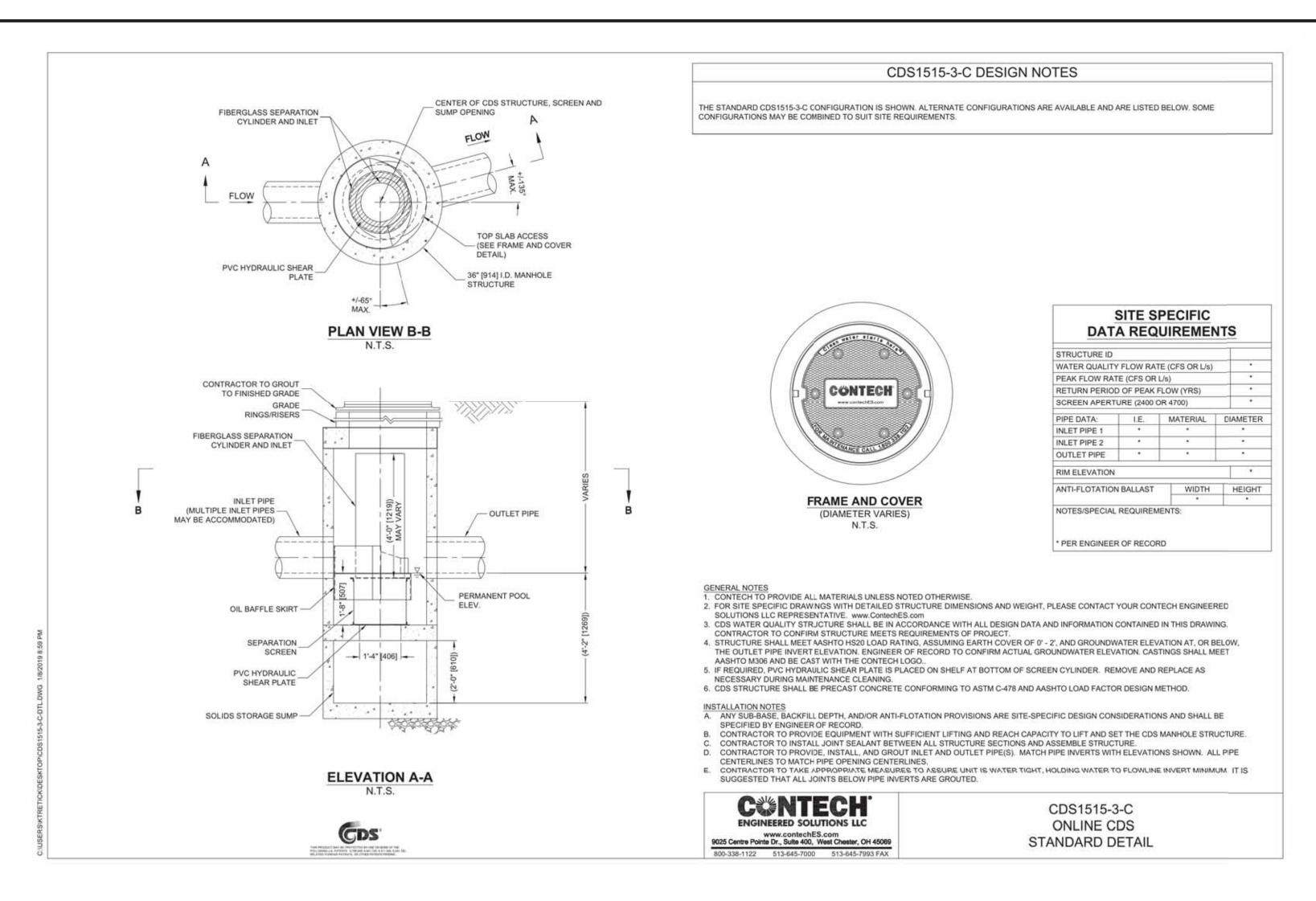
NOT TO SCALE

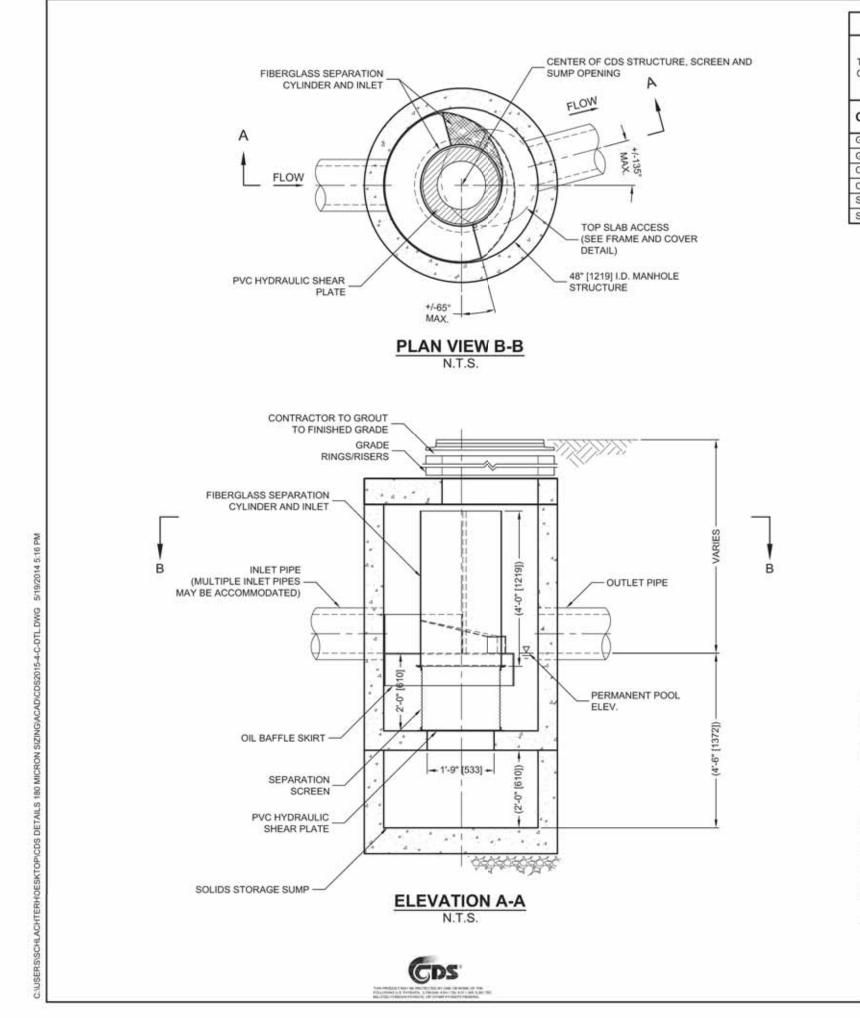
Concrete shall be Class B" (5 sack mix) unless otherwise noted.

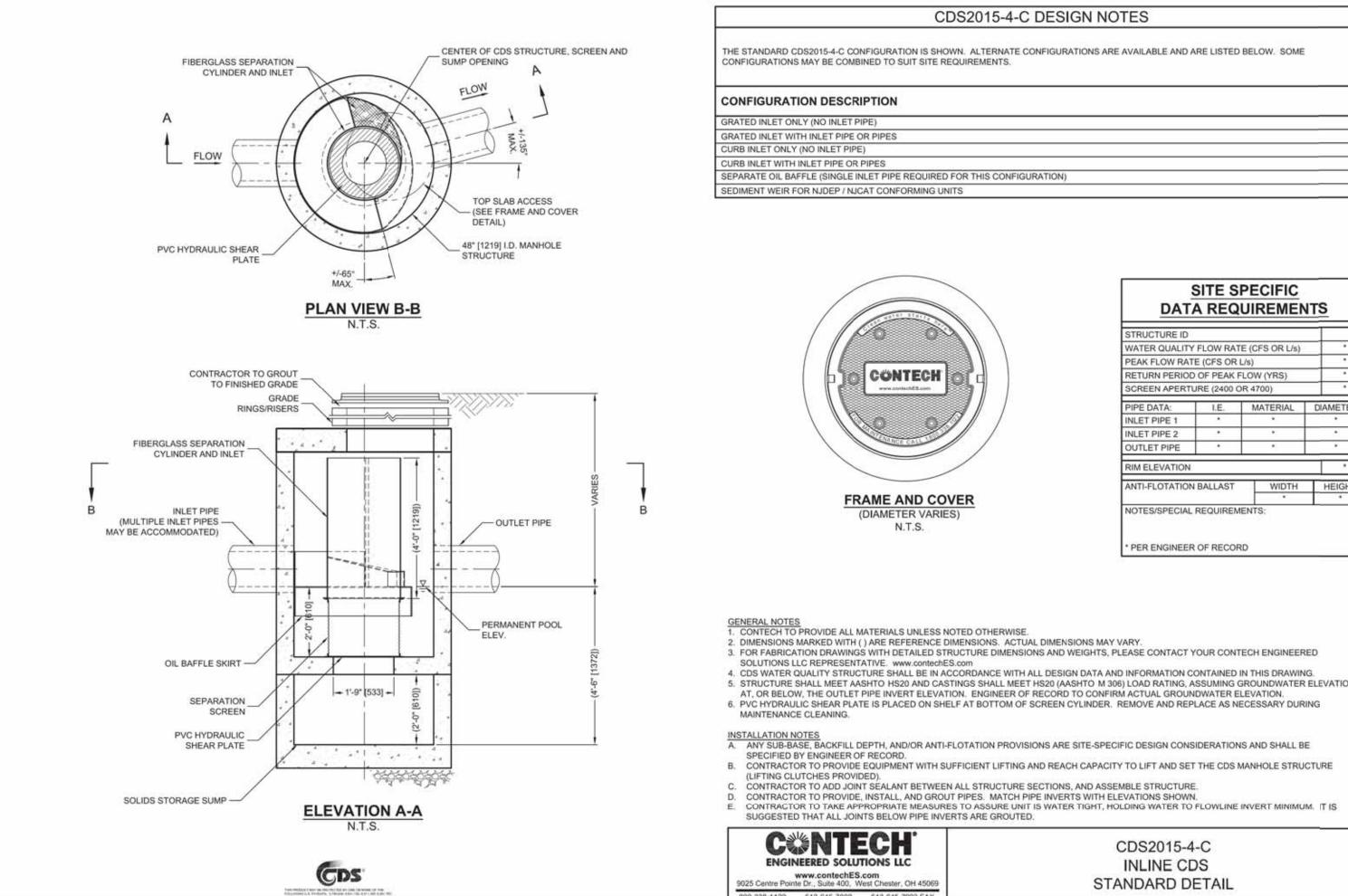
Backfill to be kept 4" below top of wall.

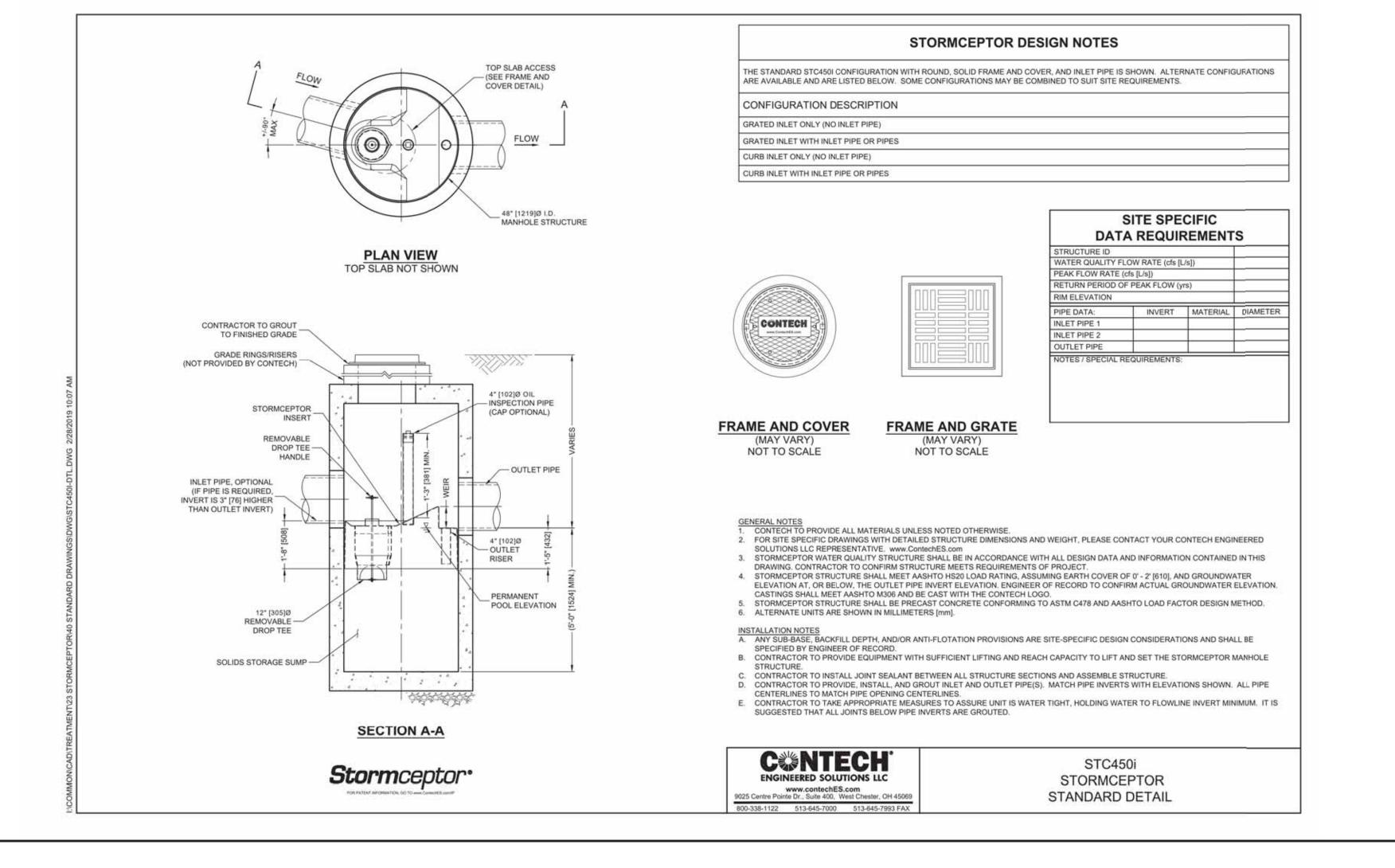
— Bevel all exposed edges.

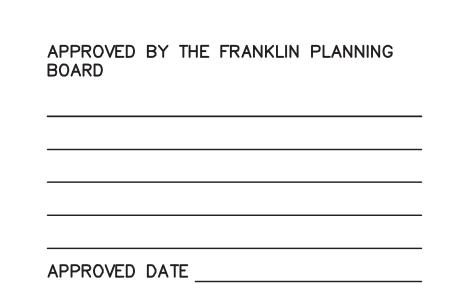
HEADWALL DETAIL KELLY ENGINEERING GROUP, INC











SITE SPECIFIC

SCALE NA	4. 3. 2.	10/01/20 07/28/20 06/02/20	NO CHANGE PLANNING BOARD COMMENTS NO CHANGE		TH OF
DATE 02/14/20	1.	04/10/20 DATE	PER PEER REVIEW REVISION	BY	DAV NOE KELL CIVI
SHEET 12 of 12 FILE # 2019–127–DT04		MARCUS PARTNERS 176- 210 GROVE STREET FRANKLIN, MA			NO. 37
JOB # F:\P\2019-127 DRAWN BY		DETAIL SHEET			
CHKD BY GSH		Æ	KELLY ENGINEERING GROU civil engineering consultan O Campanelli Drive, Braintree, MA 021	ts	SHEET NO.

Phone: 781-843-4333 www.kellyengineeringgroup.com

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