SITE DEVELOPMENT PLANS

FOR

33 RIVERSIDE DRIVE PEMBROKE, MA

MAY 24, 2023

SHEET INDEX								
SHEET No.	DESCRIPTION	LATEST	REVISED	DATE	CONST	RUCTIO	N REV	ISIONS
1	COVER SHEET							
2	EXISTING CONDITIONS PLAN							
3	LAYOUT PLAN							
4	GRADING PLAN							
5	SEWER & DRAINAGE PLAN							
6	UTILITY PLAN							
7	DETAIL SHEET							
8	DETAIL SHEET							
9	DETAIL SHEET			_				
	PHOTOMETRIC PLAN							



LOCATION MAP

OWNER/APPLICANT:

KRR PEMBROKE LLC
c/o RADER PROPERTIES
80 WASHINGTON ST. BLDG J-40
NORWELL, MA 02061

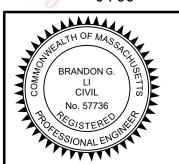
CIVIL ENGINEERS:

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

ARCHITECT:

ROTH & SEELEN, INC 50 SOUTH STREET HINGHAM, MA 02043

Brandon Li 2023.05.25 2i 16:51:27 -04'00'



 SCALE
 JOB #

 NA
 F: \P\2023-026

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 05/24/23
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 APPD BY

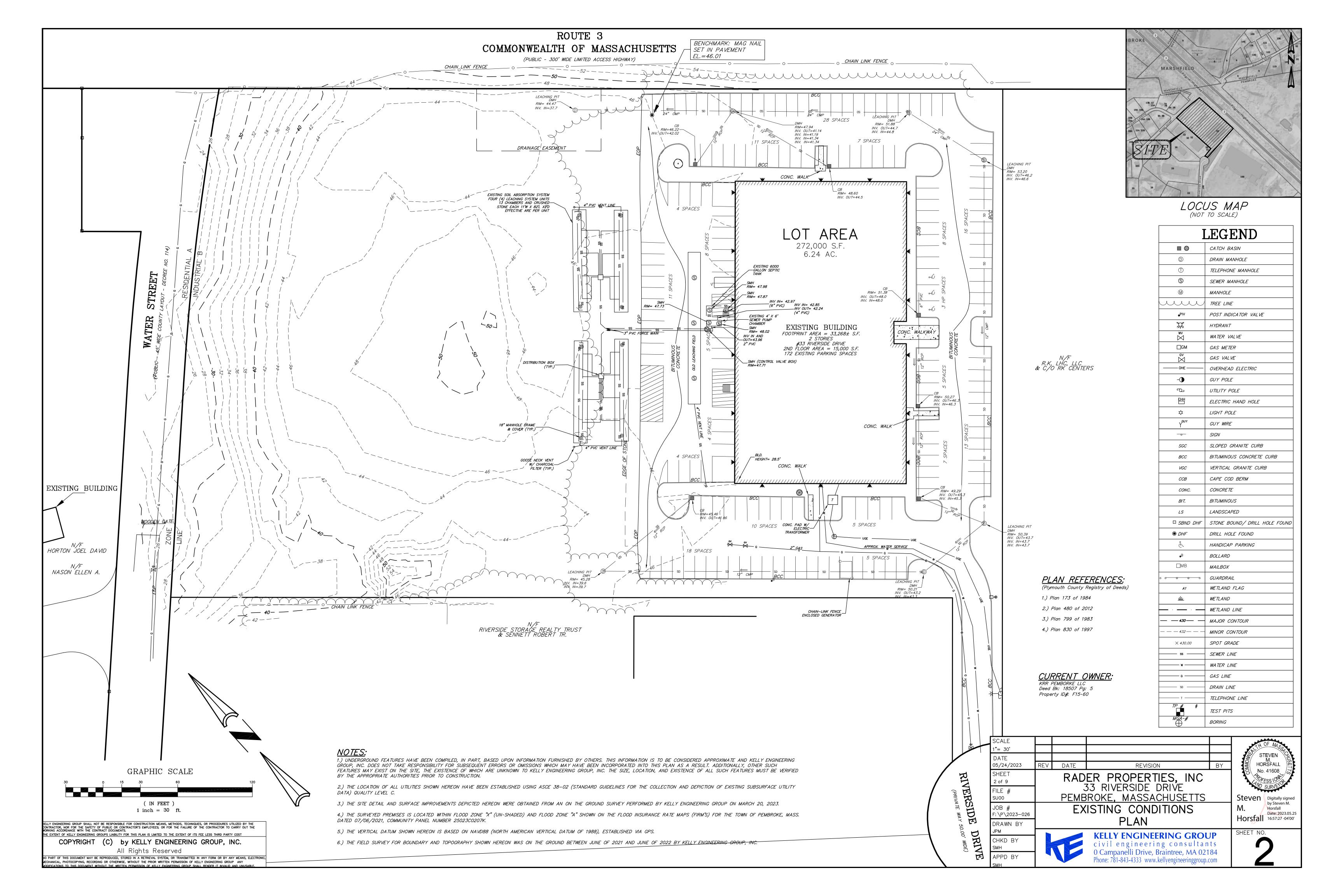
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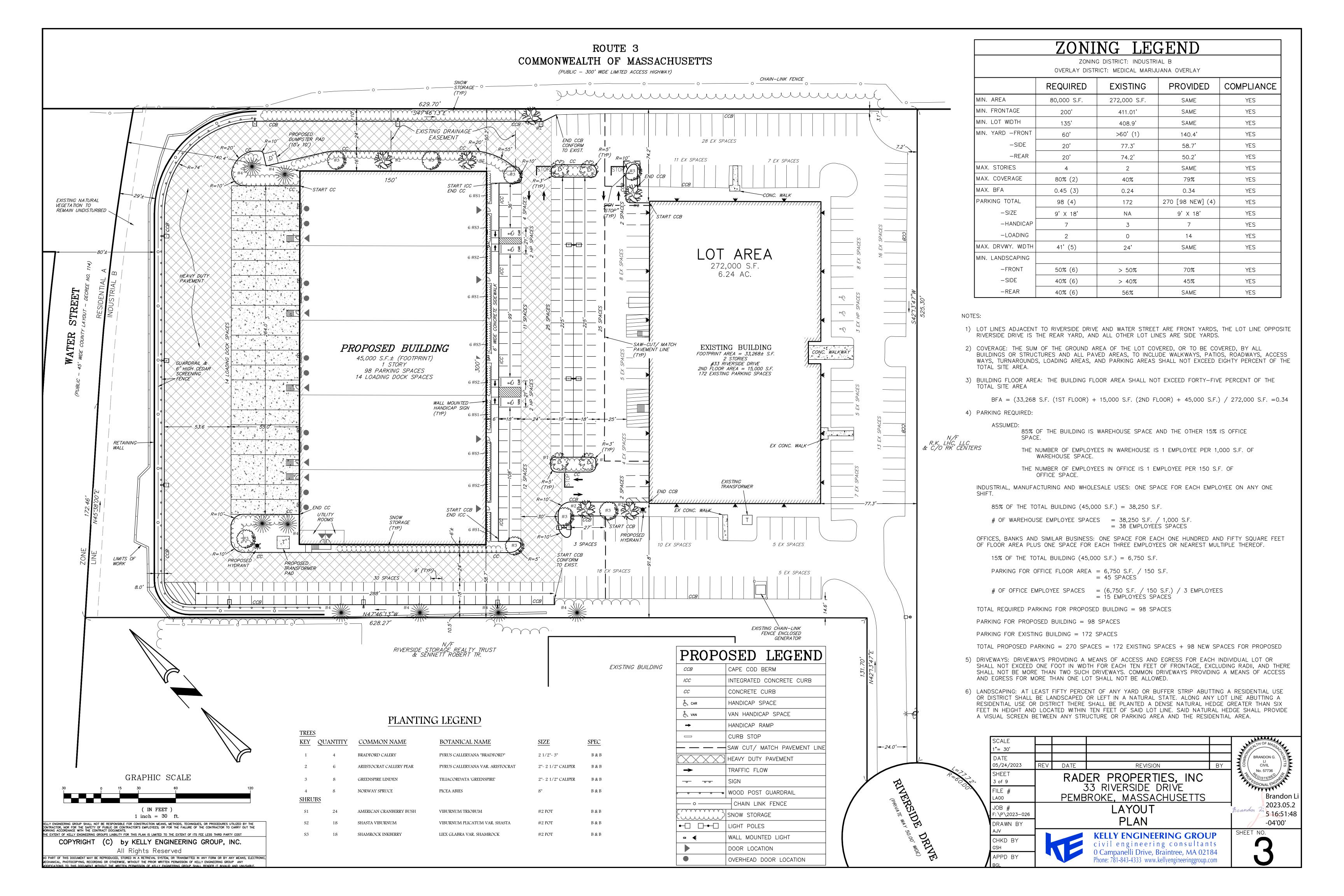


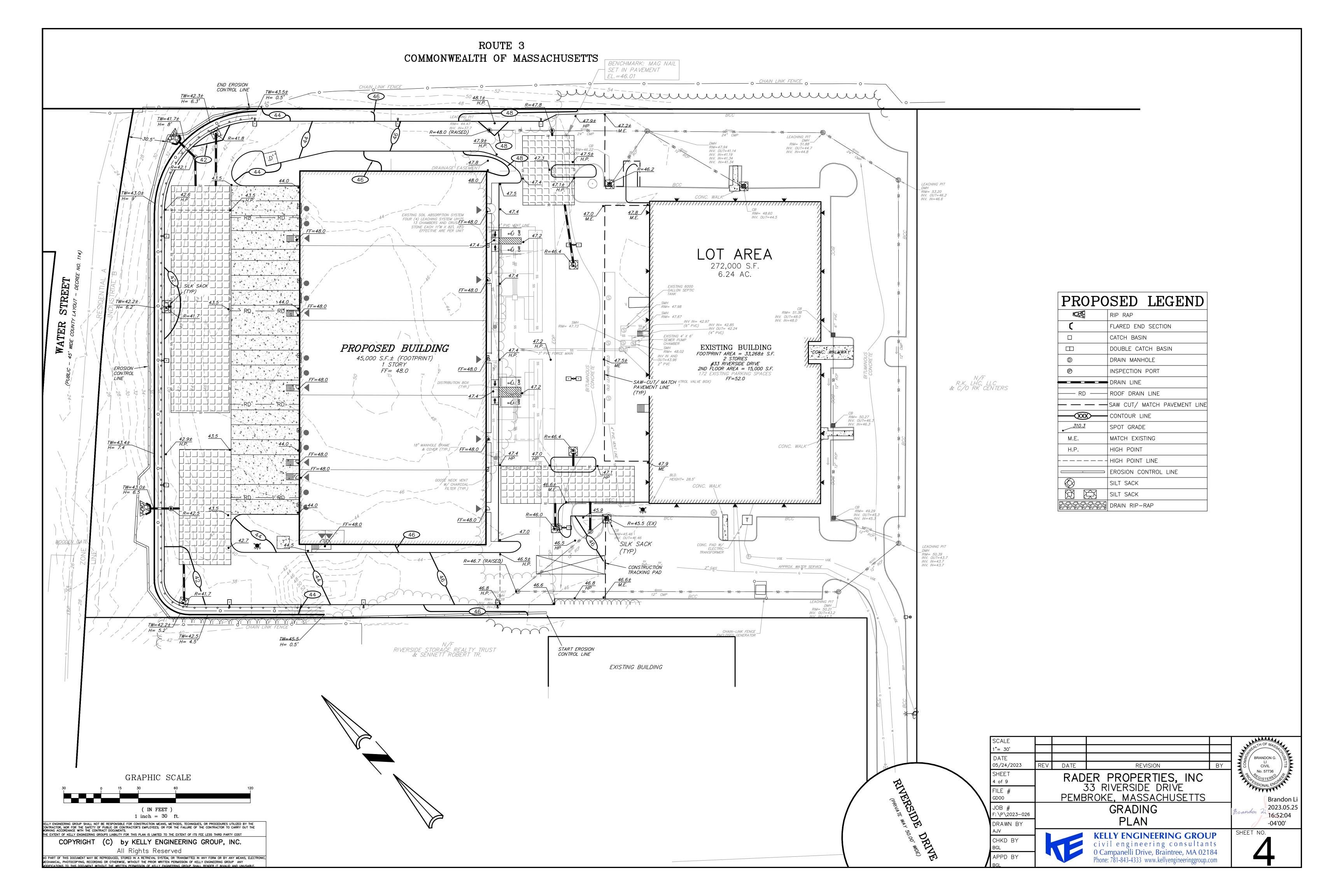
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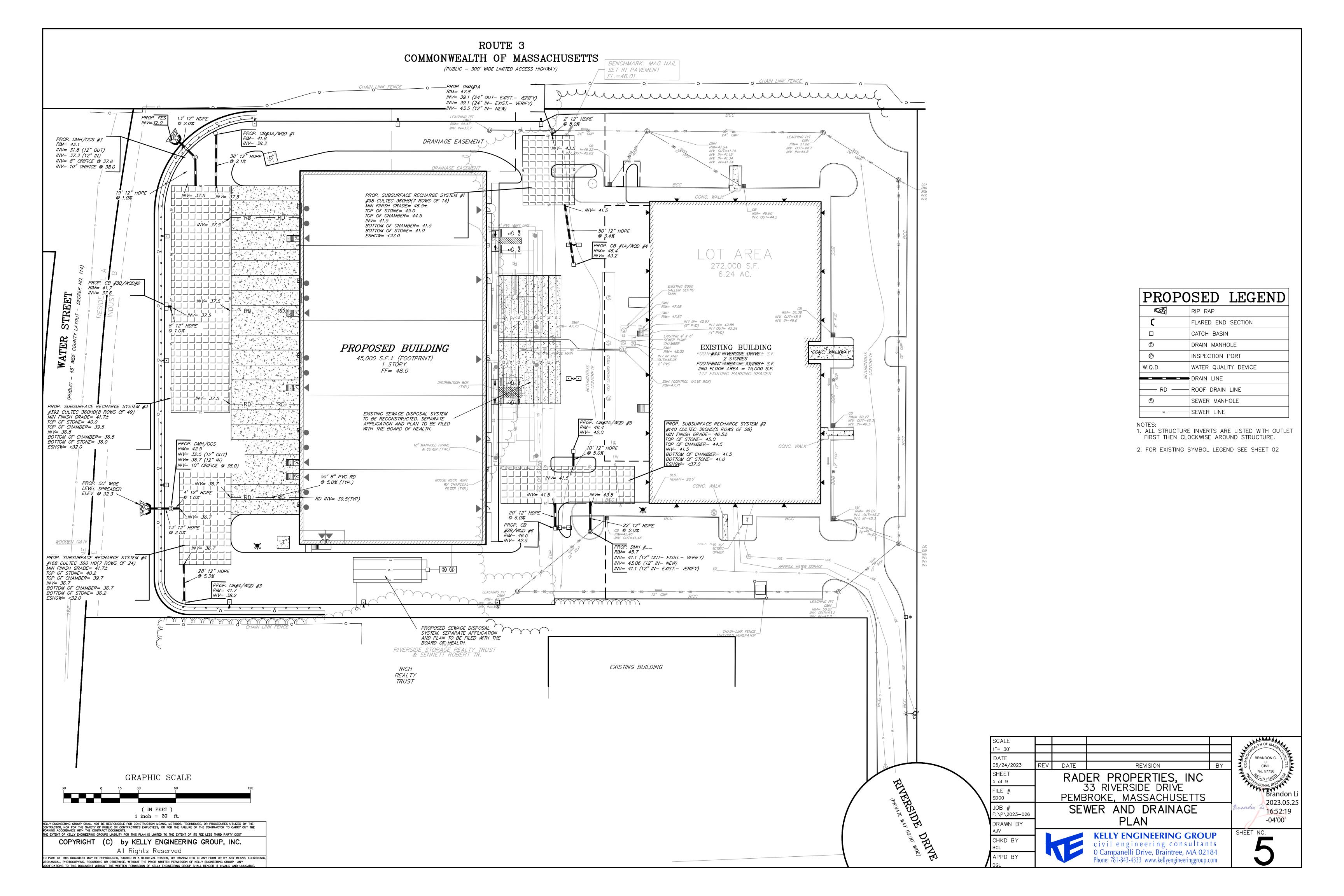
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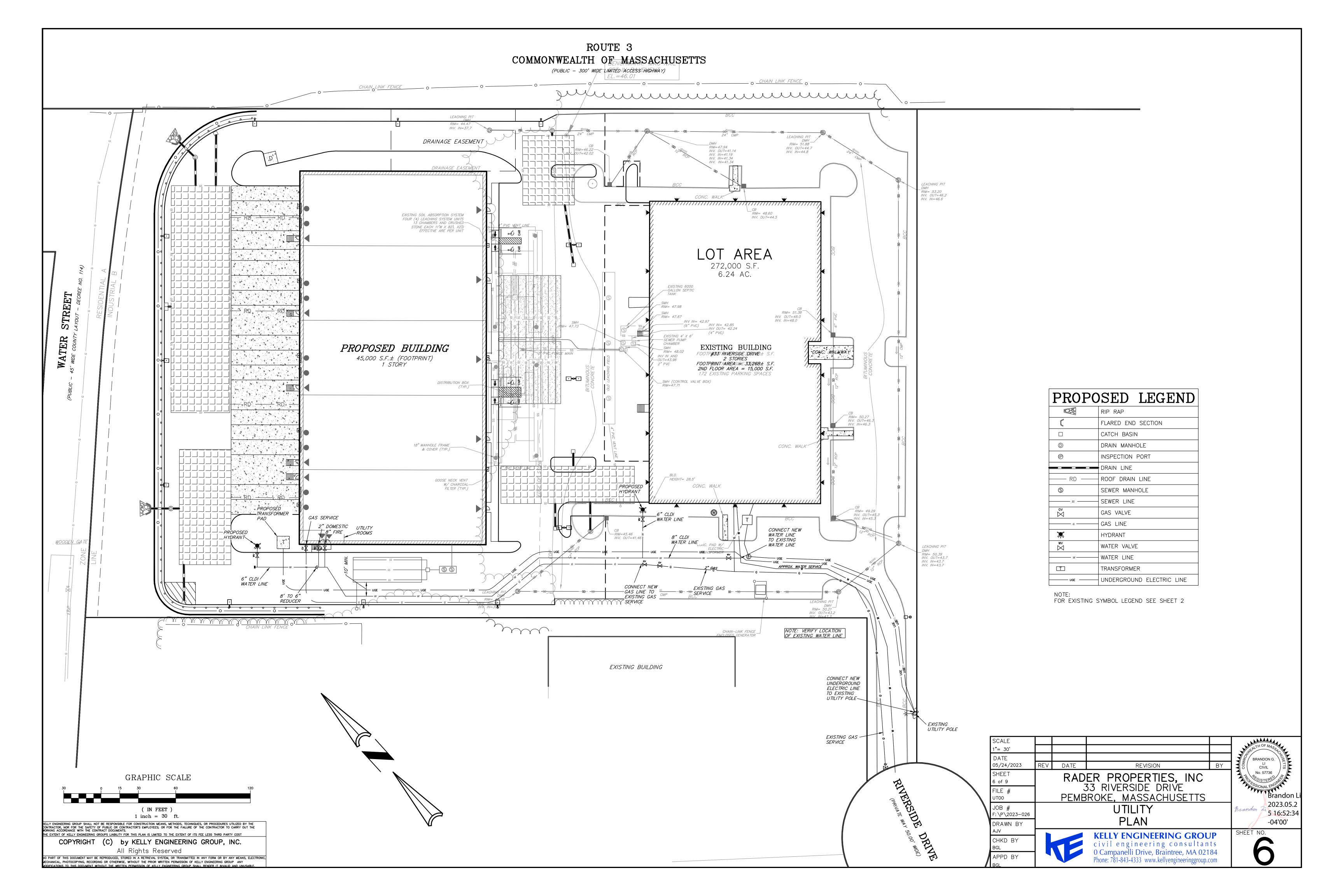
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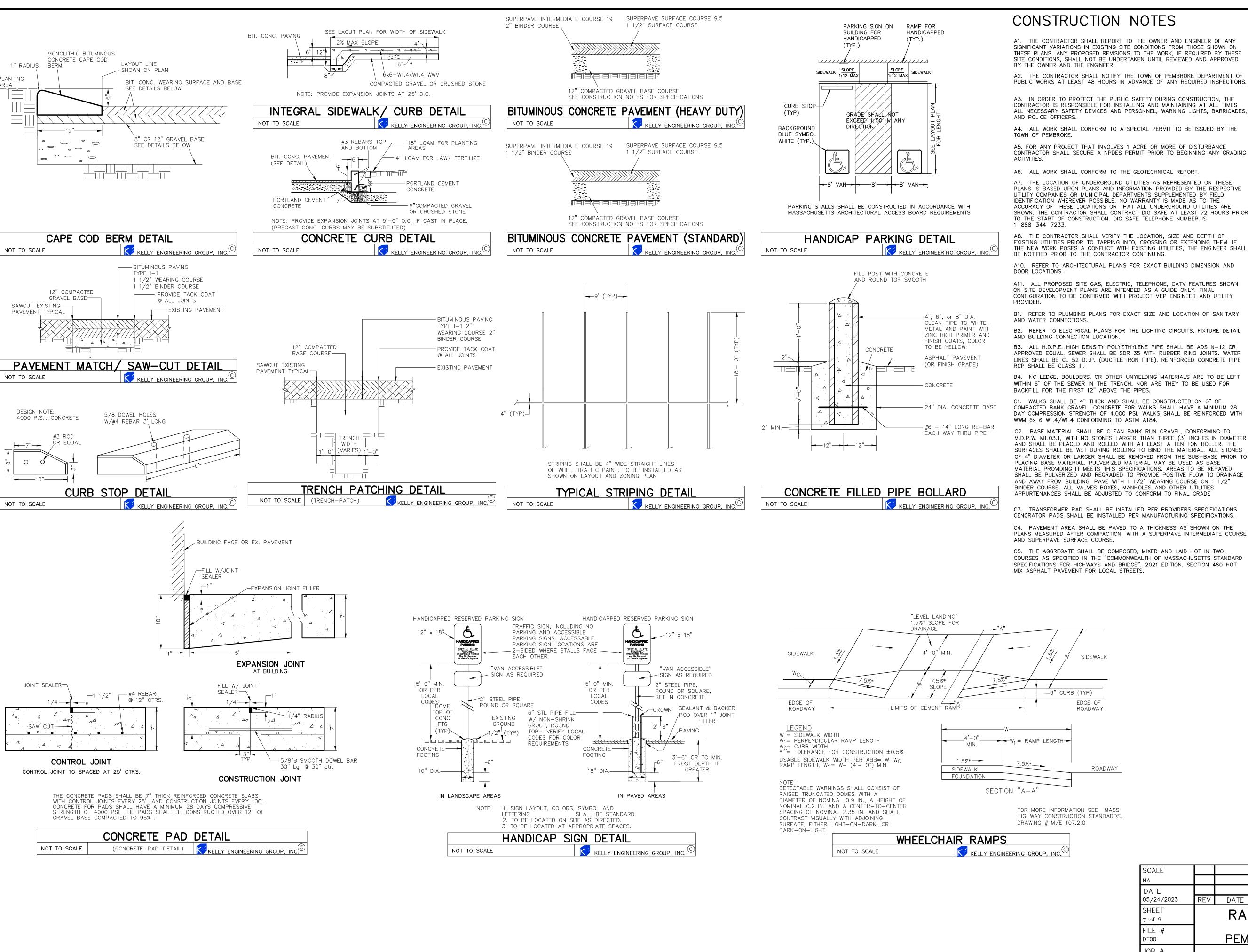












LY ENGINEERING GROUP SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS METHODS. TECHNIQUES, OR PROCEDURES LITHLED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTOR'S EMPLOYEES; OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORKING ACCORDANCE WITH THE CONTRACT DOCUMENTS.

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HE EXTENT OF KELLY ENGINEERING GROUPS LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COST

SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS FROM THOSE SHOWN ON THESE PLANS. ANY PROPOSED REVISIONS TO THE WORK, IF REQUIRED BY THESE SITE CONDITIONS, SHALL NOT BE UNDERTAKEN UNTIL REVIEWED AND APPROVED

A2. THE CONTRACTOR SHALL NOTIFY THE TOWN OF PEMBROKE DEPARTMENT OF

A3. IN ORDER TO PROTECT THE PUBLIC SAFETY DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING AT ALL TIMES ALL NECESSARY SAFETY DEVICES AND PERSONNEL, WARNING LIGHTS, BARRICADES,

A4. ALL WORK SHALL CONFORM TO A SPECIAL PERMIT TO BE ISSUED BY THE

A5. FOR ANY PROJECT THAT INVOLVES 1 ACRE OR MORE OF DISTURBANCE CONTRACTOR SHALL SECURE A NPDES PERMIT PRIOR TO BEGINNING ANY GRADING

A7. THE LOCATION OF UNDERGROUND UTILITIES AS REPRESENTED ON THESE PLANS IS BASED UPON PLANS AND INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES OR MUNICIPAL DEPARTMENTS SUPPLEMENTED BY FIELD IDENTIFICATION WHEREVER POSSIBLE. NO WARRANTY IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR THAT ALL UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL CONTRACT DIG SAFE AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. DIG SAFE TELEPHONE NUMBER IS

A8. THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO TAPPING INTO, CROSSING OR EXTENDING THEM, IF THE NEW WORK POSES A CONFLICT WITH EXISTING UTILITIES, THE ENGINEER SHALL

A10. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSION AND

A11. ALL PROPOSED SITE GAS, ELECTRIC, TELEPHONE, CATV FEATURES SHOWN ON SITE DEVELOPMENT PLANS ARE INTENDED AS A GUIDE ONLY. FINAL

B1. REFER TO PLUMBING PLANS FOR EXACT SIZE AND LOCATION OF SANITARY

B2. REFER TO ELECTRICAL PLANS FOR THE LIGHTING CIRCUITS, FIXTURE DETAIL

B3. ALL H.D.P.E. HIGH DENSITY POLYETHYLENE PIPE SHALL BE ADS N-12 OR APPROVED EQUAL. SEWER SHALL BE SDR 35 WITH RUBBER RING JOINTS. WATER LINES SHALL BE CL 52 D.I.P. (DUCTILE IRON PIPE), REINFORCED CONCRETE PIPE

B4. NO LEDGE, BOULDERS, OR OTHER UNYIELDING MATERIALS ARE TO BE LEFT WITHIN 6" OF THE SEWER IN THE TRENCH, NOR ARE THEY TO BE USED FOR

C1. WALKS SHALL BE 4" THICK AND SHALL BE CONSTRUCTED ON 6" OF COMPACTED BANK GRAVEL. CONCRETE FOR WALKS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH OF 4,000 PSI. WALKS SHALL BE REINFORCED WITH

C2. BASE MATERIAL SHALL BE CLEAN BANK RUN GRAVEL, CONFORMING TO M.D.P.W. M1.03.1. WITH NO STONES LARGER THAN THREE (3) INCHES IN DIAMETER AND SHALL BE PLACED AND ROLLED WITH AT LEAST A TEN TON ROLLER. THE SURFACES SHALL BE WET DURING ROLLING TO BIND THE MATERIAL. ALL STONES OF 4" DIAMETER OR LARGER SHALL BE REMOVED FROM THE SUB-BASE PRIOR TO PLACING BASE MATERIAL. PULVERIZED MATERIAL MAY BE USED AS BASE MATERIAL PROVIDING IT MEETS THIS SPECIFICATIONS. AREAS TO BE REPAVED SHALL BE PULVERIZED AND REGRADED TO PROVIDE POSITIVE FLOW TO DRAINAGE AND AWAY FROM BUILDING. PAVE WITH 1 1/2" WEARING COURSE ON 1 1/2" BINDER COURSE. ALL VALVES BOXES, MANHOLES AND OTHER UTILITIES

C3. TRANSFORMER PAD SHALL BE INSTALLED PER PROVIDERS SPECIFICATIONS.

C4. PAVEMENT AREA SHALL BE PAVED TO A THICKNESS AS SHOWN ON THE PLANS MEASURED AFTER COMPACTION, WITH A SUPERPAVE INTERMEDIATE COURSE

C5. THE AGGREGATE SHALL BE COMPOSED, MIXED AND LAID HOT IN TWO COURSES AS SPECIFIED IN THE "COMMONWEALTH OF MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGE", 2021 EDITION. SECTION 460 HOT

C6. DUMPSTER PAD SHALL BE 8" THICK REINFORCED CONCRETE SLAB WITH CONTROL JOINTS EVERY 10'. THE PAD SHALL BE CONSTRUCTED OVER 6" OF GRAVEL BASE, COMPACT TO 95% REINFORCEMENT SHALL BE WWF 6x6- W1.4 x W1.4 PLACED AT THE CENTER OF THE SLAB. THE FRONT END OF COMPACTOR PAD SHALL HAVE EMBEDDED A 6"x 6"x 3/8" STEEL ANGLE.

C7. THE DOLLY PADS SHALL BE 6" THICK REINFORCED CONCRETE SLABS WITH CONTROL JOINTS EVERY 10' AND ISOLATION JOINTS WHERE SLAB ABUTS BUILDING. THE PADS SHALL BE CONSTRUCTED OVER 12" OF GRAVEL BASE COMPACTED TO 95%. REINFORCEMENT SHALL BE WWF 6 x 6- 2 W1.4 x W1.4 PLACED AT CENTER

C8. ALL EXISTING PAVING TO BE DISTURBED SHALL BE CUT ALONG A STRAIGHT LINE THROUGH ITS ENTIRE THICKNESS, BUTT NEW PAVING INTO THE EXISTING PAVEMENT TO REMAIN AND TACK COAT THE JOINT.

C9. ANY PAVEMENT REMOVED FOR UTILITY TRENCH EXCAVATION OR OTHERWISE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH A PAVEMENT SECTION CONSISTING OF 1 1/2" SUPERPAVE SURFACE COURSE OVERLAYING A 1 1/2" SUPERPAVE INTERMEDIATE COURSE OVERLAYING A 12" COMPACTED GRAVEL BASE

D1. ALL AREAS TO BE PLANTED WITH GRASS SHALL BE TREATED WITH 100 POUNDS OF GROUND LIMESTONE PER 1,000 S.F. OF AREA PLANTED. ALL AREAS TO BE PLANTED WITH GRASS SHALL BE FERTILIZED WITH 10-10-10 AT THE RATE OF 1,000 POUNDS PER ACRE OR AS REQUIRED BY SOIL TEST. 40% OF THE NITROGEN SHALL BE ORGANIC FORM.

D2. ALL LANDSCAPED AREAS TO BE LOAMED AND SEEDED SHALL HAVE THE FOLLOWING MIX.

PERENNIAL RYE KENTUCKY BLUE 25% CREEPING RED FESCUE OR PENNLAWN FESCUE SEED AT THE RATE OF 5#/1.000 S.F.

D3. ALL DISTURBED AREAS TO BE LOAMED AND SEEDED SHALL HAVE A MINIMUM OF 4 INCHES OF TOPSOIL SPREAD EVENLY THROUGHOUT. PROVIDE EROSION CONTROL MEASURES AS NECESSARY TO PROVIDE SLOPE STABILITY UNTIL VEGETATION IS ESTABLISHED. (NOTE: IF THERE IS A CONFLICT BETWEEN THESE PLANS AND LANDSCAPE PLANS THE LANDSCAPE PLANS SHALL DICTATE.

E1. THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEANUP 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

E2. 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. MEASURES SHALL INCLUDE SILT SACKS IN DRAINAGE INLETS, MULCHING AND PLANTING OF DISTURBED AREAS.

E3. PRIOR TO THE COMMENCEMENT OF ANY OTHER WORK A SILT SACK SHALL BE INSTALLED IN EACH EXISTING DRAINAGE INLET. E4. AFTER INSTALLATION OF EACH DRAINAGE INLET A SILT SACK SHALL BE

INSTALLED IN EACH INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM

E5. AT THE END OF CONSTRUCTION ALL DRAINAGE STRUCTURES ARE TO BE CLEANED OF SILT, STONES AND OTHER DEBRIS.

E6. DURING CONSTRUCTION THE EROSION CONTROL MEASURES SHALL BE INSPECTED ONCE PER WEEK AND WITHIN 24 HOURS OF ANY STORM EVENT GENERATING MORE THAN 1/2" OF RAINFALL. THE EROSION CONTROL MEASURES SHALL BE CLEANED REGULARLY AND ADJUSTED IF NECESSARY TO ENSURE THAT NO SILT OR DEBRIS LEAVES THE SITE.

E7. STABILIZATION MEASURES (SEEDING OR PLANTING, APPLYING MULCH OR OTHER NON-VEGETATIVE PRODUCT) OF EXPOSED SOILS SHALL BEGIN AS SOON AS PRACTICABLE AND IMMEDIATELY AFTER EARTH-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED. STABILIZATION TO BE COMPLETED WITHIN 14 DAYS.

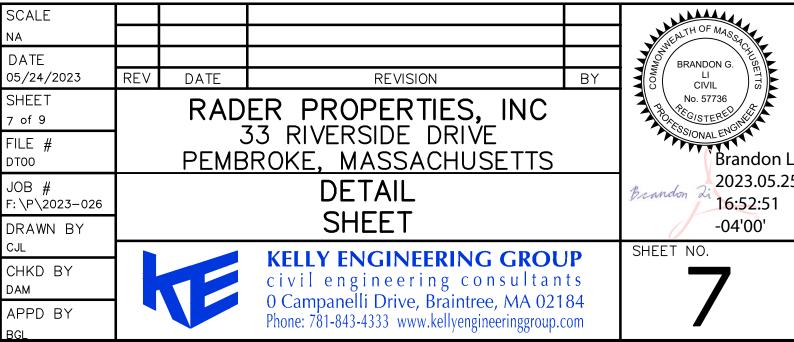
E8. SILT SOCKS SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF ALL STOCK

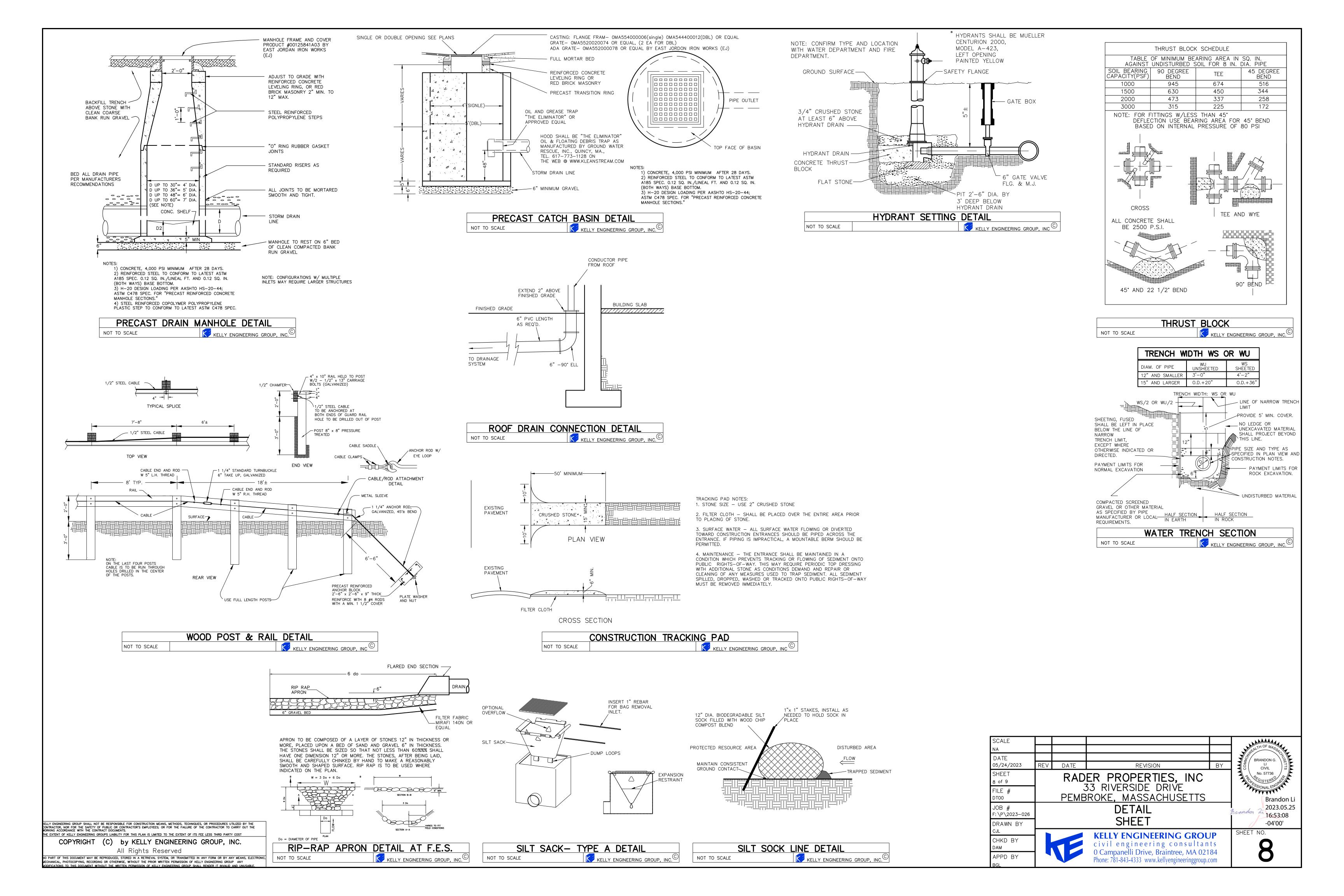
E9. SPARE EROSION/SEDIMENT CONTROL MATERIALS SHALL BE AVAILABLE ON SITE FOR USE IN CONTINGENCY CONDITIONS.

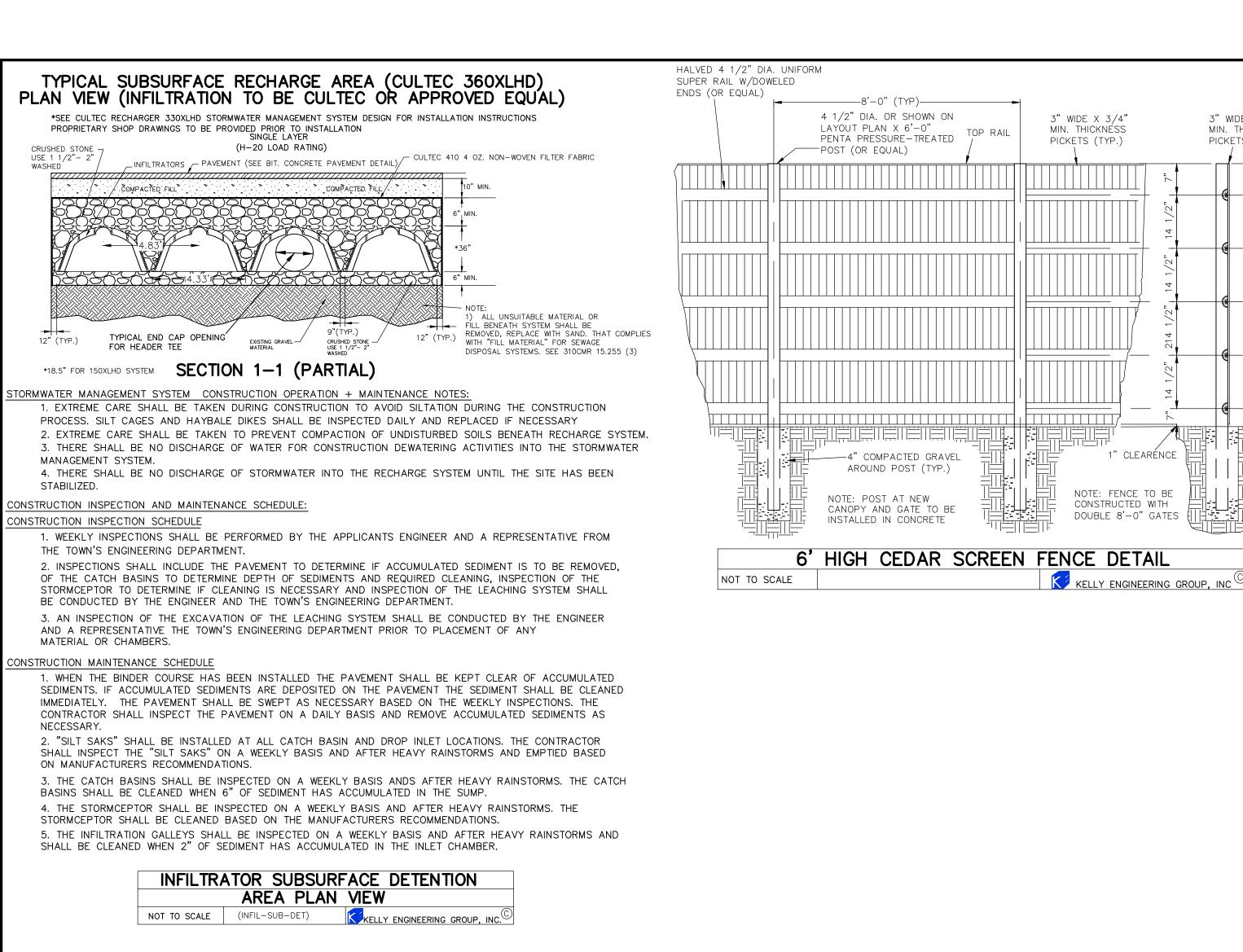
F1. ALL STORM DRAIN INLETS SHOWN TO BE ABANDONED SHALL BE ABANDONED AS FOLLOWS SUCH THAT THE TOPS ARE NO LESS THAN 3' FROM FINISHED GRADE: (A) PRECAST DRAINAGE INLETS SHALL HAVE THE GRATE, FRAME AND CONE SECTION REMOVED. THE STORM DRAIN PIPE SHALL BE PLUGGED USING BRICK AND MORTAR AND THE REMAINING STRUCTURE SHALL BE BACK FILLED AND COMPACTED, OR THE ENTIRE STRUCTURE SHALL BE REMOVED AND REMAINING VOID SHALL BE BACKFILLED AND COMPACTED. (B) BLOCK DRAINAGE INLETS SHALL BE GRATE AND FRAMED REMOVED AND THE STORM DRAIN PLUGGED AS IN (A) ABOVE. THE STRUCTURE SHALL THEN BE

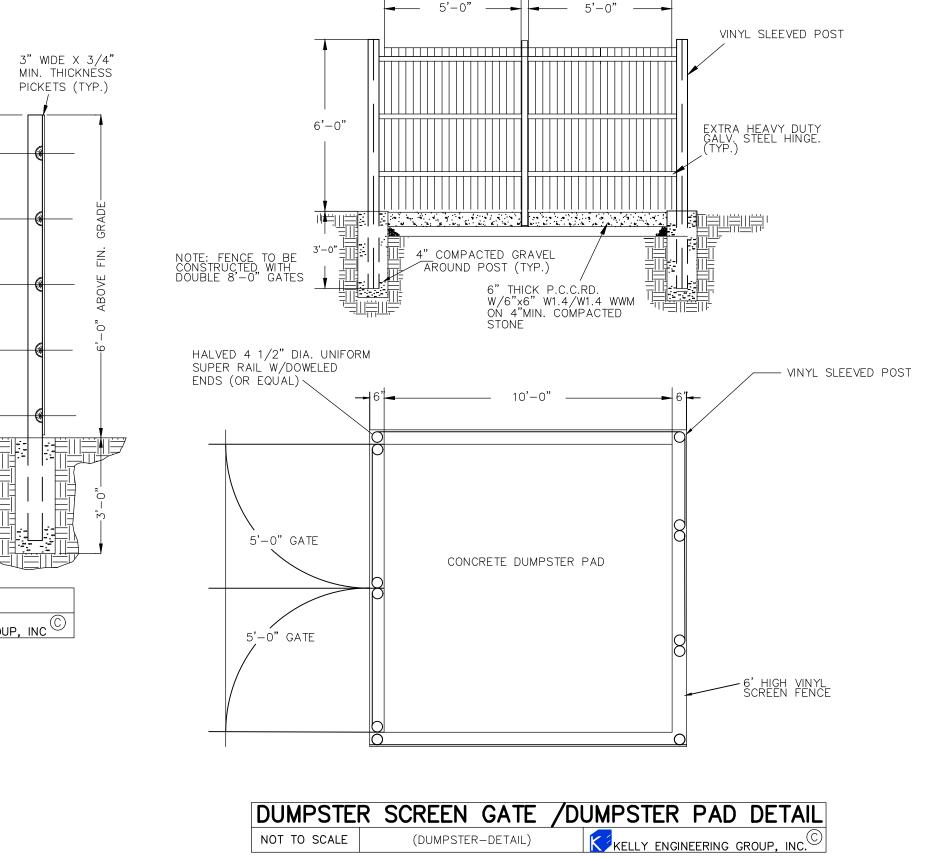
F2. ALL STORM DRAINS TO BE ABANDONED WHICH ARE WITHIN 3' OF FINISHED GRADE SHALL BE REMOVED. ALL OTHERS SHALL BE PLUGGED AT EACH END.

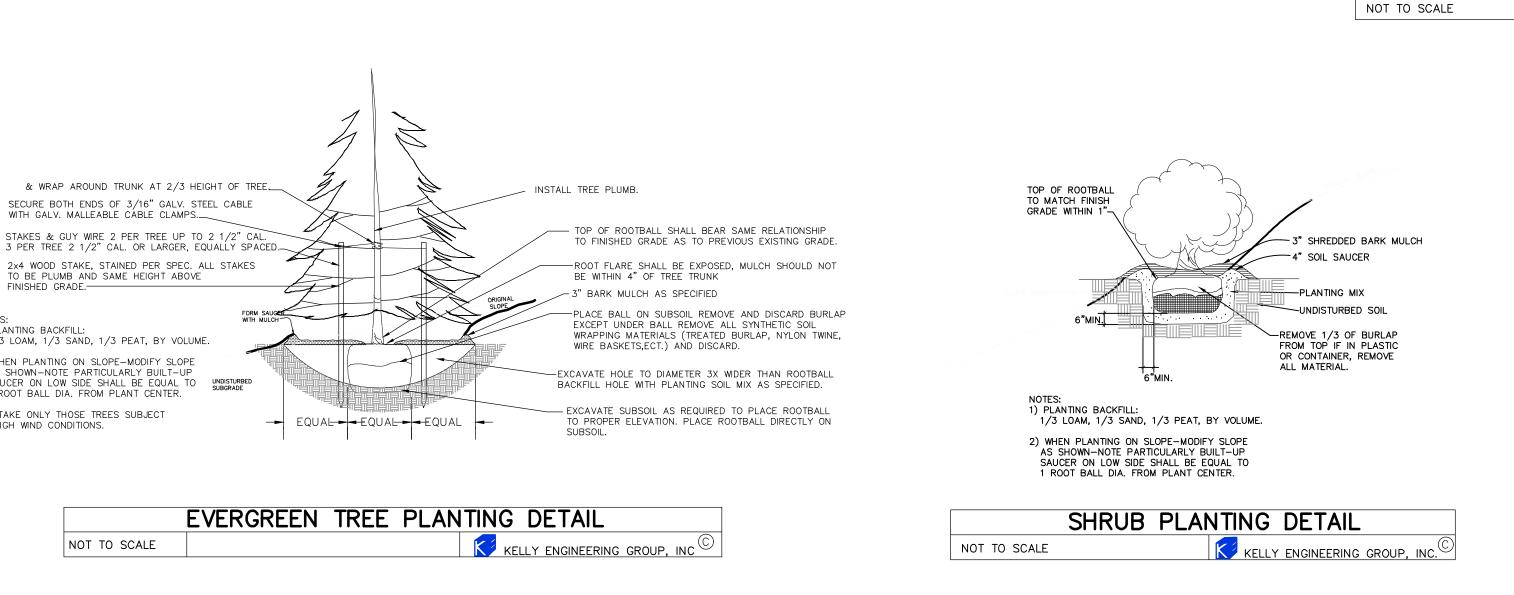
CRUSHED, BACKFILLED AND COMPACTED.

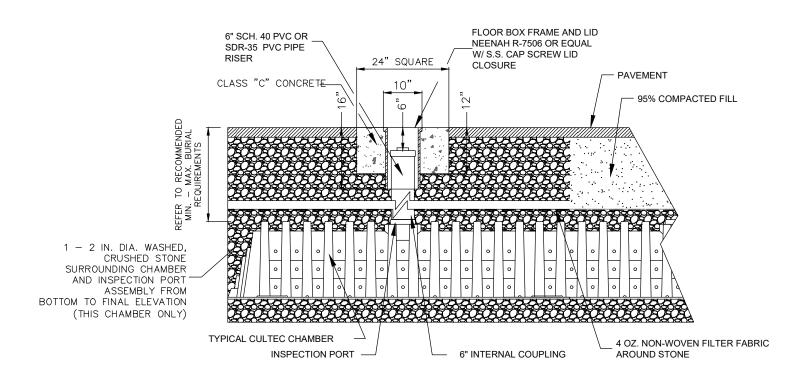




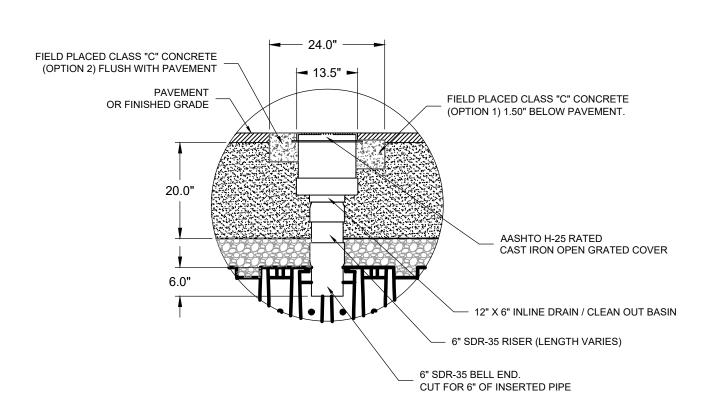








TYPICAL H20 INSPECTION PORT DETAIL



& WRAP AROUND TRUNK AT 2/3 HEIGHT OF TREE_

SECURE BOTH ENDS OF 3/16" GALV. STEEL CABLE

2x4 WOOD STAKE, STAINED PER SPEC. ALL STAKES

WITH GALV. MALLEABLE CABLE CLAMPS._

TO BE PLUMB AND SAME HEIGHT ABOVE

1/3 LOAM, 1/3 SAND, 1/3 PEAT, BY VOLUME.

SAUCER ON LOW SIDE SHALL BE EQUAL TO UNDISTURBED SUBGRADE

NOT TO SCALE

2) WHEN PLANTING ON SLOPE-MODIFY SLOPE

1 ROOT BALL DIA. FROM PLANT CENTER.

3) STAKE ONLY THOSE TREES SUBJECT

AS SHOWN-NOTE PARTICULARLY BUILT-UP

1) PLANTING BACKFILL:

TO HIGH WIND CONDITIONS.

BRANDON G. LI CIVIL 05/24/2023 BY DATE REVISION No. 57736 RADER PROPERTIES, INC 9 of 9 33 RIVERSIDE DRIVE PEMBROKE, MASSACHUSETTS Brandon I DTOO 2023.05.25 **DETAIL** JOB # 16:53:25 F: \P\2023-026 SHEET -04'00' DRAWN BY SHEET NO. **KELLY ENGINEERING GROUP** CHKD BY civil engineering consultants 0 Campanelli Drive, Braintree, MA 02184

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

/INSTALL TREE PLUMB.

2/3 HEIGHT OF TREE.

_CABLE CLAMPS.

FORM SAUCER

WITH MULCH

 ■ EQUAL

 EQUAL

 EQUAL

NOTES:

1) PLANTING BACKFILL:

WIND CONDITIONS.

1/3 LOAM, 1/3 SAND, 1/3 PEAT, BY VOLUME.

2) WHEN PLANTING ON SLOPE-MODIFY SLOPE

1 ROOT BALL DIA. FROM PLANT CENTER. 3) STAKE ONLY THOSE TREES SUBJECT TO HIGH

AS SHOWN-NOTE PARTICULARLY BUILT-UP

SAUCER ON LOW SIDE SHALL BE EQUAL TO

DECIDUOUS TREE PLANTING DETAIL

UNDISTURBED

APPD BY

SUBGRADE

LARGER, EQUALLY SPACED. Î

REINFORCED RUBBER HOSE SURROUNDING

STAKES & GUY WIRE 2 PER TREE UP TO 2

GUY WIRE & WRAP AROUND TRUNK AT

1/2" CAL. 3 PER TREE 2 1/2" CAL. OR

SECURE BOTH ENDS OF 3/16" GALV.

STEEL CABLE WITH GALV. MALLEABLE

2x4 WOOD STAKE, STAINED PER SPEC.

ALL STAKES TO BE PLUMB AND SAME

TOP OF ROOTBALL SHALL BEAR SAME

RELATIONSHIP TO FINISHED GRADE AS TO

ROOT FLARE SHALL BE EXPOSED, MULCH

-- PLACE BALL ON SUBSOIL REMOVE AND

DISCARD BURLAP EXCEPT UNDER BALL

WIRE BASKETS, ETC.) AND DISCARD.

REMOVE ALL SYNTHETIC SOIL WRAPPING

-EXCAVATE HOLE TO DIAMETER 3X WIDER

EXCAVATE SUBSOIL AS REQUIRED TO PLACE

ROOTBALL TO PROPER ELEVATION. PLACE

THAN ROOTBALL BACKFILL HOLE WITH

PLANTING SOIL MIX AS SPECIFIED.

ROOTBALL DIRECTLY ON SUBSOIL.

KELLY ENGINEERING GROUP, INC.

MATERIALS (TREATED BURLAP, NYLON TWINE,

SHOULD NOT BE WITHIN 4" OF TREE TRUNK

HEIGHT ABOVE FINISHED GRADE.

PREVIOUS EXISTING GRADE.

_3" BARK MULCH AS SPECIFIED

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TYPE L: 20'0" Mounting Height TYPE WP: 15'0" Mounting Height

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MH: 15

1.0 1.1 1.2 1.0 0.9 0.7 0.8 1.2 2.2 3.5 3.7 WP2

3.7 3.5 3.6 2.6 1.8 1.3 1.0 1.3 2.2 3.5 3.7 WP2

Luminaire Sc	hedule							
Symbol	Qty	Label	Arrangement	Manufacturer	Description	Lum. Lumens	Lum. Watts	LLF
□ →	6	L3M-S	Single	U.S. ARCHITECTURAL LIGHTING	RZR-PLED-III-M-80LED-700mA-40K-HS	17315	173.6	0.920
₽	3	L4F-S	Single	U.S. ARCHITECTURAL LIGHTING	RZR-PLED-IV-FT-80LED-700mA-40K-HS	16903	173.6	0.920
+ +	3	L5W-2	Back-Back	U.S. ARCHITECTURAL LIGHTING	RZR-PLED-VSQ-W-80LED-525mA-40K	18643	129.4	0.920
→	3	WP1	Single	U.S. ARCHITECTURAL LIGHTING	RZR-WM1-PLED-II-20LED-1050mA-40K	7771	64.1	0.920
-	5	WP2	Single	U.S. ARCHITECTURAL LIGHTING	RZR-WM1-PLED-IV-20LED-1050mA-40K	7847	64.1	0.920

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/N
Property Line	Illuminance	Fc	0.0	0.2	0.0	N.A.	N.A.
Site	Illuminance	Fc	2.7	6.6	0.7	3.9	9.4

SUN VALLEY

/ AVE O, PALMDALE, C (661) 233-2000

AGENCY: Apex Lighting Solutions, LLC Date:5/25/2023 SCALE: 1" = 25'0"

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