

SITE DEVELOPMENT PLANS

FOR

ONE KIDDIE DRIVE

AVON, MA

LOCATION MAP

AUGUST 10, 2020



LOCATION MAP, SCALE 1" = 100'

OWNER/APPLICANT:

LATEST REVISED DATE CONSTRUCTION REVISIONS

SHEET INDEX

09/24/20

09/24/20

09/24/20

09/24/20

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09/24/20

09/24/20

09/24/20

SHEET No.

DESCRIPTION

EXISTING CONDITIONS PLAN

SEWER, DRAIN & UTILITY PLAN

COVER SHEET

LAYOUT PLAN
GRADING PLAN

DETAIL SHEET

DETAIL SHEET

DETAIL SHEET

KRUPA/LZK PROPERTIES LLC 455 DORCHESTER AVENUE BOSTON, MA 02127

CIVIL ENGINEERS:

KELLY ENGINEERING GROUP, INC. 0 CAMPANELLI DRIVE BRAINTREE, MA 02184

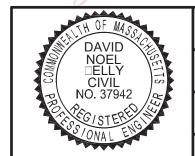
ARCHITECT:

RKB ARCHITECTS, INC. 0 CAMPANELLI DRIVE BRAINTREE, MA 02184

ATTORNEY:

FRANK MARINELLI 439 WASHINGTON STREET BRAINTREE, MA 02184



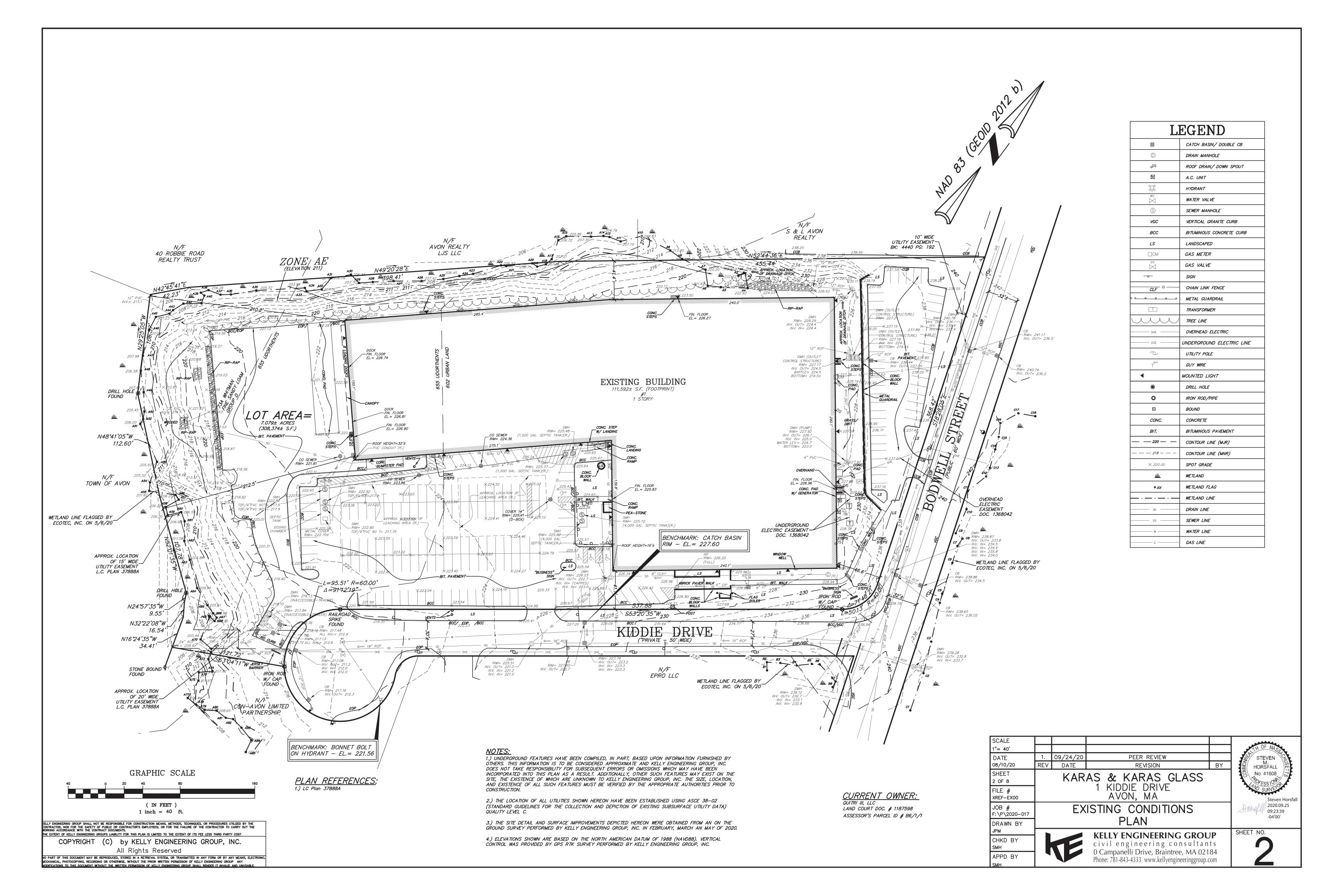


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	SCALE NA	JOB # F: \P\2020-017				
	DATE 08/10/20	DRAWN BY CJL	_			
	SHEET 1 OF 8	CHKD BY GSH				
	FILE # 2020-017-TS01	APPD BY DNK				

ONE KIDDIE DRIVE AVON, MA

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

SHEET NO.



ZONING LEGEND ZONING DISTRICT: INDUSTRIAL (OVERLAY: WATER SUPPLY PROTECTION DISTRICT)							
MIN. AREA	40,000 S.F.	308,374 S.F.	308,374 S.F.	YES			
MIN. FRONTAGE	200'	>200'	>200'	YES			
MIN. YARD -FRONT	40' (NOTE 1,2)	41.1'±	41.1'±	YES			
-SIDE	25'	>25'	92.7'±	YES			
-REAR	40'	41.4'±	41.4'±	YES			
MAX. HEIGHT	40'	<40'	<40'	YES			
MAX. BLD COVERAGE	60%	36.3% ±	42.1% ±	YES			
PARKING TOTAL	132 (NOTE 3)	198	158	YES			
-SIZE	ADEQUATE	ADEQUATE	ADEQUATE	COMPLIES			
-HANDICAP	6	5	6	YES			
-LOADING	4 (NOTE 4)	8	6	YES			
PARKING SETBACK							
-FRONT	40'	2.9'±	2.9'±	EXISTING NON-CONFORMING			
-SIDE	NONE	COMPLIES	COMPLIES	COMPLIES			
-REAR	NONE	COMPLIES	COMPLIES	COMPLIES			
AISLE WIDTH	ADEQUATE	ADEQUATE	ADEQUATE	COMPLIES			
MAX. DRVWY. WIDTH	24'	>24'	EXISTING	EXISTING NON-CONFORMING			

NOTES: 1) CORNER LOT, FRONT LOT LINE IS DESIGNATED AS STREET LINE ALONG KIDDIE DRIVE

2) ON LOTS ABUTTING STREETS ON MORE THAN ONE SIDE, THE FRONT YARD REQUIREMENTS SHALL APPLY TO EACH OF THE ABUTTING STREETS.

3) PARKING REQUIRED:

WHOLESALE ESTABLISHMENT WITH 18,000 S.F. ACCESSORY WAREHOUSE, 33,280 S.F. ACCESSORY OFFICE & 1,722 S.F. MEZZANINE REQUIRED = 1 SPACE / 1,000 S.F.

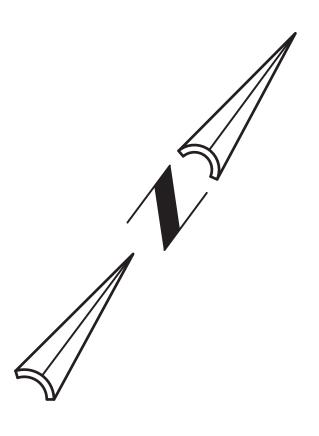
4) LOADING REQUIRED:

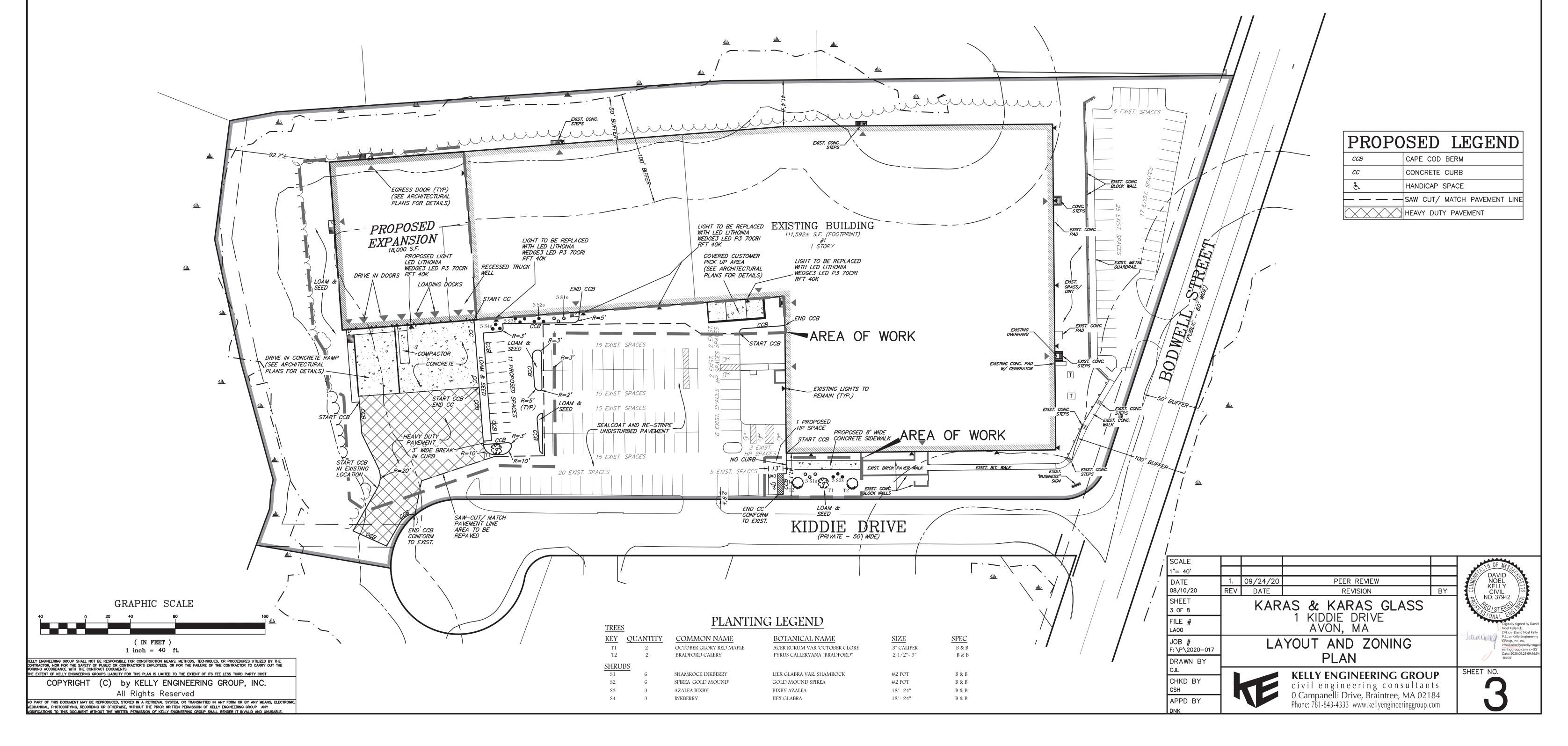
131,434 S.F. / 1,000 S.F. = 132 SPACES

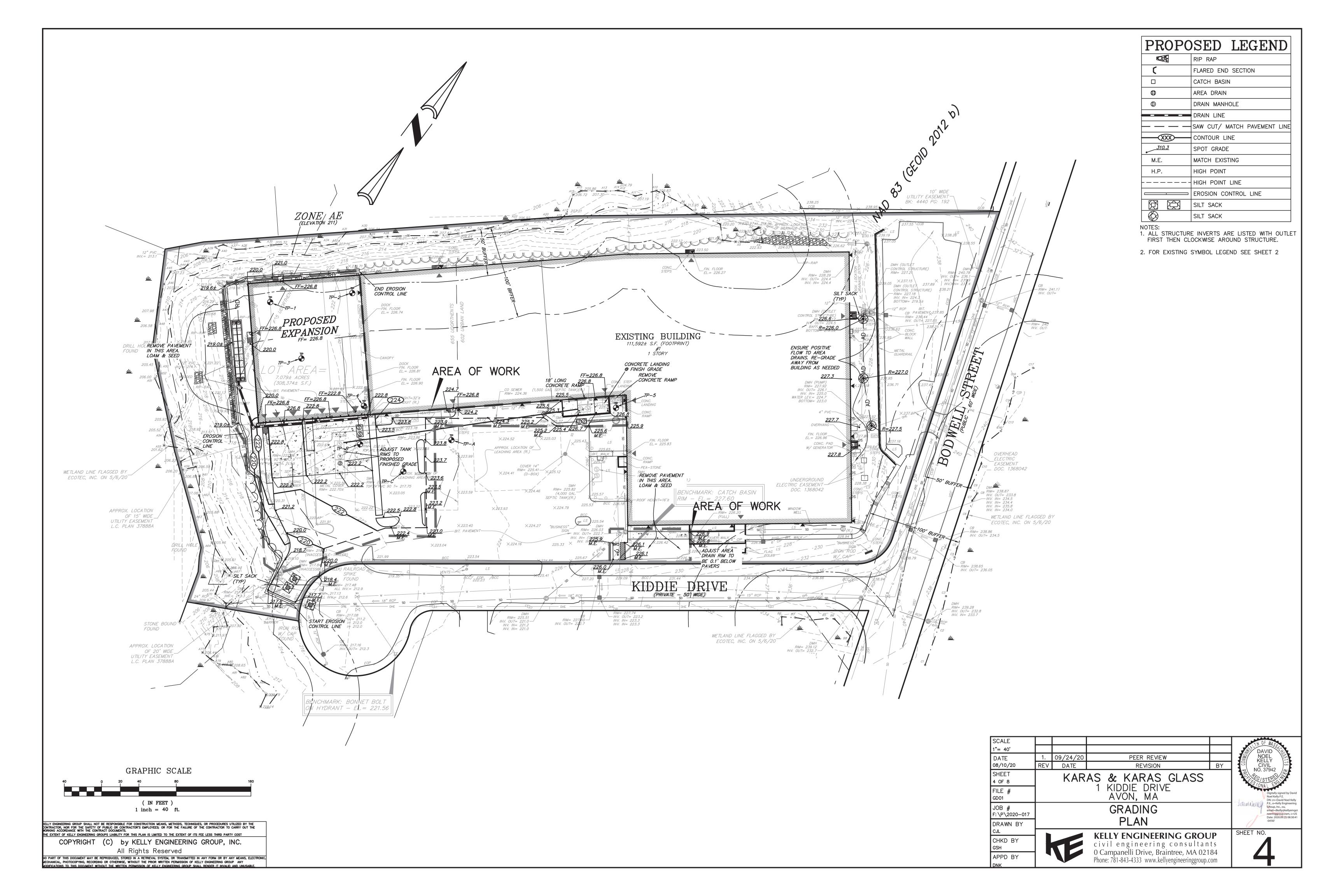
TOTAL S.F. 129,592 S.F.
2 DOCKS FOR FIRST 40,000 S.F. & 1 PER EACH ADDITIONAL 60,000 S.F.
131,434-40,000 = 91,434 S.F. / 60,000 S.F. =1.5 DOCKS
TOTAL REQUIRED = 4 DOCKS

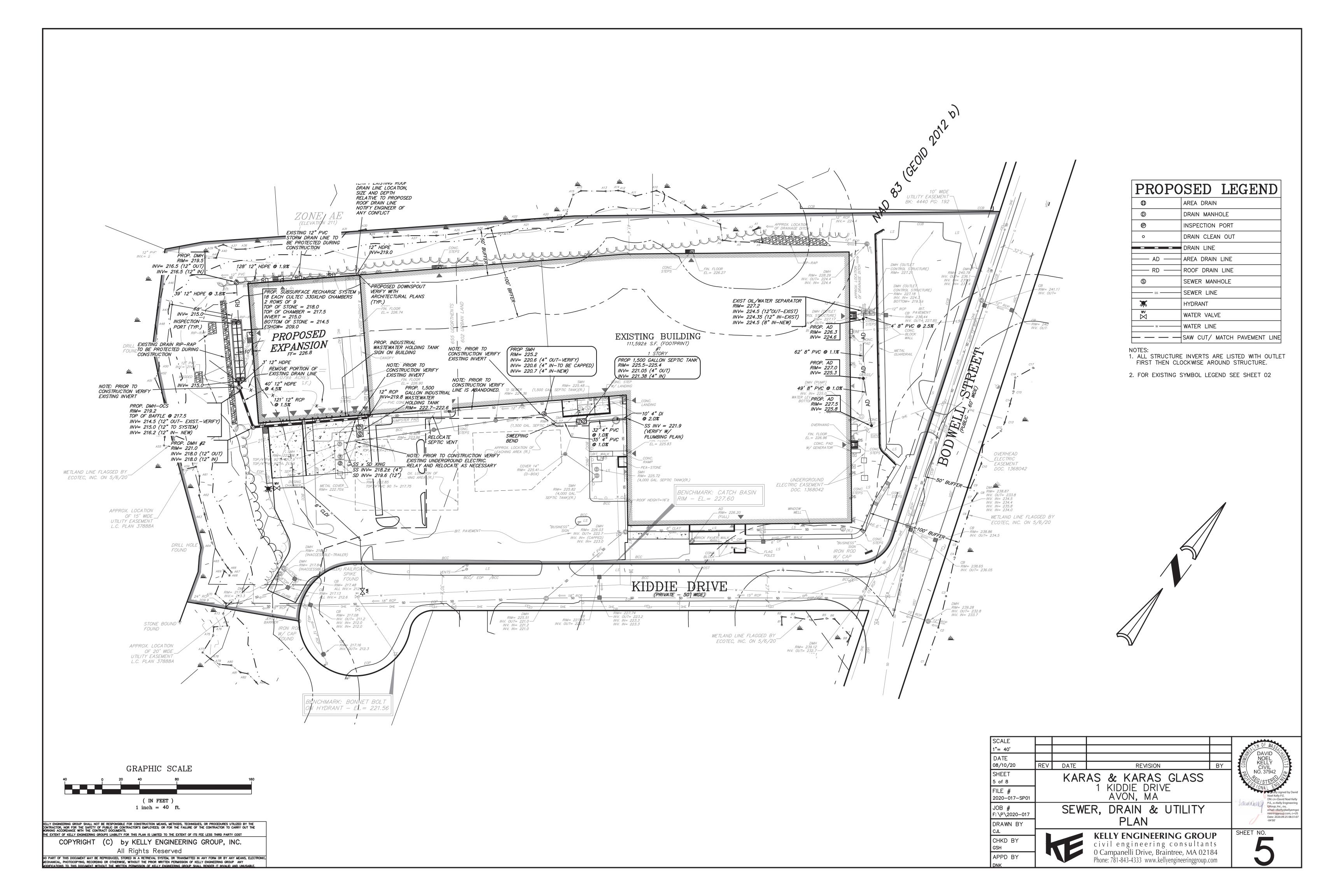
5) LOT COVERAGE OVER 15% REQUIRES SPECIAL PERMIT WITHIN WATER SUPPLY PROTECTION DISTRICT. THIS IS AN EXISTING NON-CONFORMING ISSUE BEING IMPROVED AS A RESULT OF THE PROPOSED PROJECT. EXISTING LOT COVERAGE = 68.7%. PROPOSED LOT COVERAGE = 67.1%

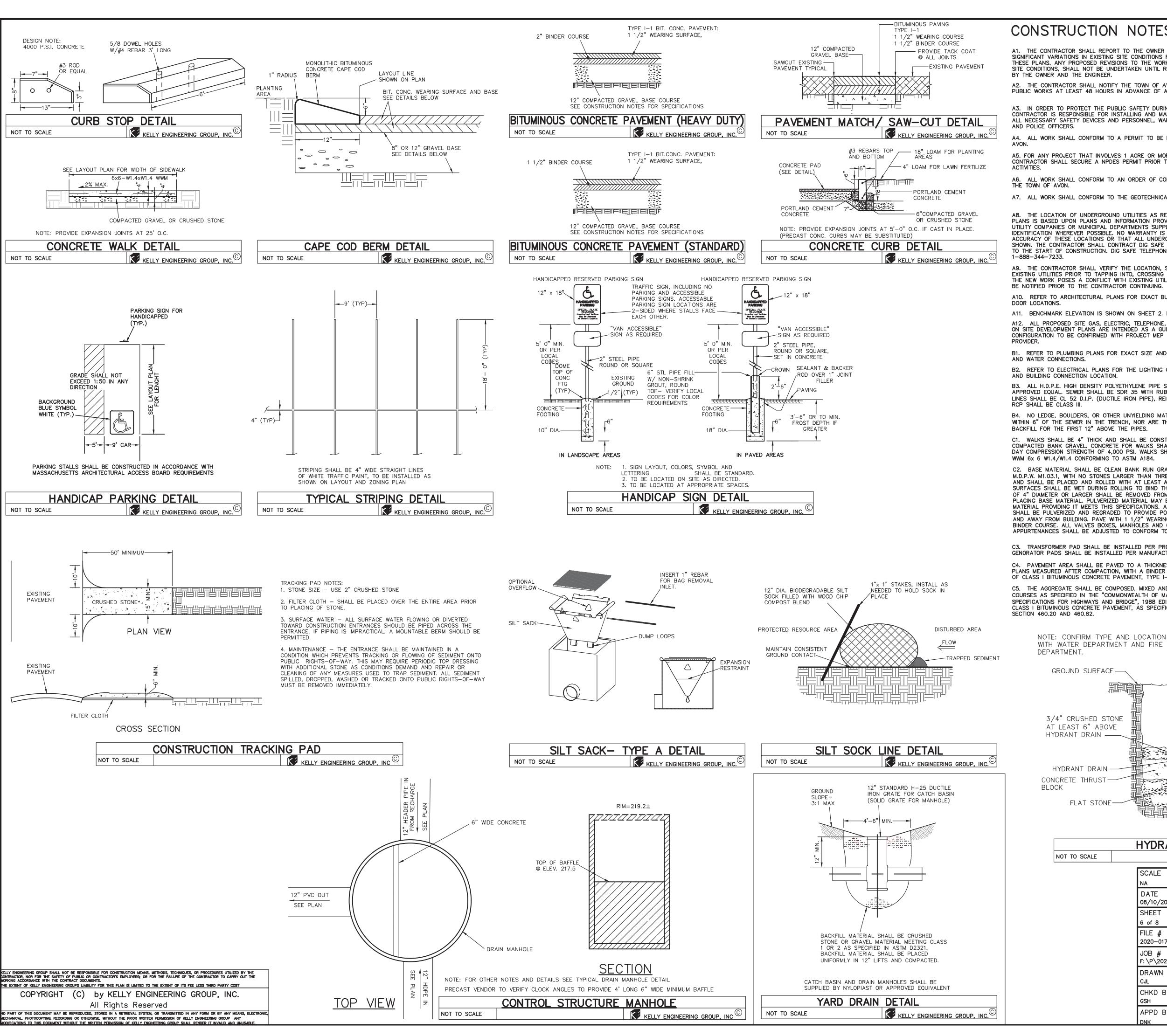
HAZARDOUS MATERIAL NOTE:
PER KARAS GLASS THE FOLLOWING WILL BE STORED ON THE SITE: PROPANE FOR FORK LIFTS,
CERIUM OXIDE AND GLASS CLEANER. ALL OF THESE MATERIALS ARE STORED PER ALL
APPLICABLE LOCAL AND STATE REGULATIONS.











CONSTRUCTION NOTES

A1. THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER OF ANY 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 BY THE OWNER AND THE ENGINEER.

A2. THE CONTRACTOR SHALL NOTIFY THE TOWN OF AVON DEPARTMENT OF PUBLIC WORKS AT LEAST 48 HOURS IN ADVANCE OF ANY REQUIRED INSPECTIONS.

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, AND POLICE OFFICERS.

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

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

A6. ALL WORK SHALL CONFORM TO AN ORDER OF CONDITIONS TO BE ISSUED BY

A7. ALL WORK SHALL CONFORM TO THE GEOTECHNICAL REPORT.

AB. 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

A9. 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 BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.

A10. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSION AND

A11. BENCHMARK ELEVATION IS SHOWN ON SHEET 2. DATUM IS NAVD.

A12. ALL PROPOSED SITE GAS, ELECTRIC, TELEPHONE, CATV FEATURES SHOWN ON SITE DEVELOPMENT PLANS ARE INTENDED AS A GUIDE ONLY. FINAL CONFIGURATION TO BE CONFIRMED WITH PROJECT MEP ENGINEER AND UTILITY

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

B2. REFER TO ELECTRICAL PLANS FOR THE LIGHTING CIRCUITS, FIXTURE DETAIL AND BUILDING CONNECTION LOCATION.

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 RCP SHALL BE CLASS III.

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 BACKFILL FOR THE FIRST 12" ABOVE THE PIPES.

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 WWM 6x 6 W1.4/W1.4 CONFORMING TO ASTM A184.

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 APPURTENANCES SHALL BE ADJUSTED TO CONFORM TO FINAL GRADE

TRANSFORMER PAD SHALL BE INSTALLED PER PROVIDERS SPECIFICATIONS. GENORATOR PADS SHALL BE INSTALLED PER MANUFACTURING SPECIFICATIONS.

C4. PAVEMENT AREA SHALL BE PAVED TO A THICKNESS AS SHOWN ON THE PLANS MEASURED AFTER COMPACTION, WITH A BINDER COURSE AND TOP COURSE OF CLASS I BITUMINOUS CONCRETE PAVEMENT, TYPE I-1.

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", 1988 EDITION. SECTION 460 FOR CLASS I BITUMINOUS CONCRETE PAVEMENT, AS SPECIFICALLY SET FORTH IN

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" WEARING COURSE OVERLAYING A 1 1/2" BINDER COURSE OVERLAYING A 12" COMPACTED GRAVEL BASE COURSE.

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.

KENTUCKY BLUE 25% CREEPING RED FESCUE OR PFNNLAWN FESCUE SEED AT THE RATE OF 5#/1,000 S.F.

NO SILT OR DEBRIS LEAVES THE SITE.

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

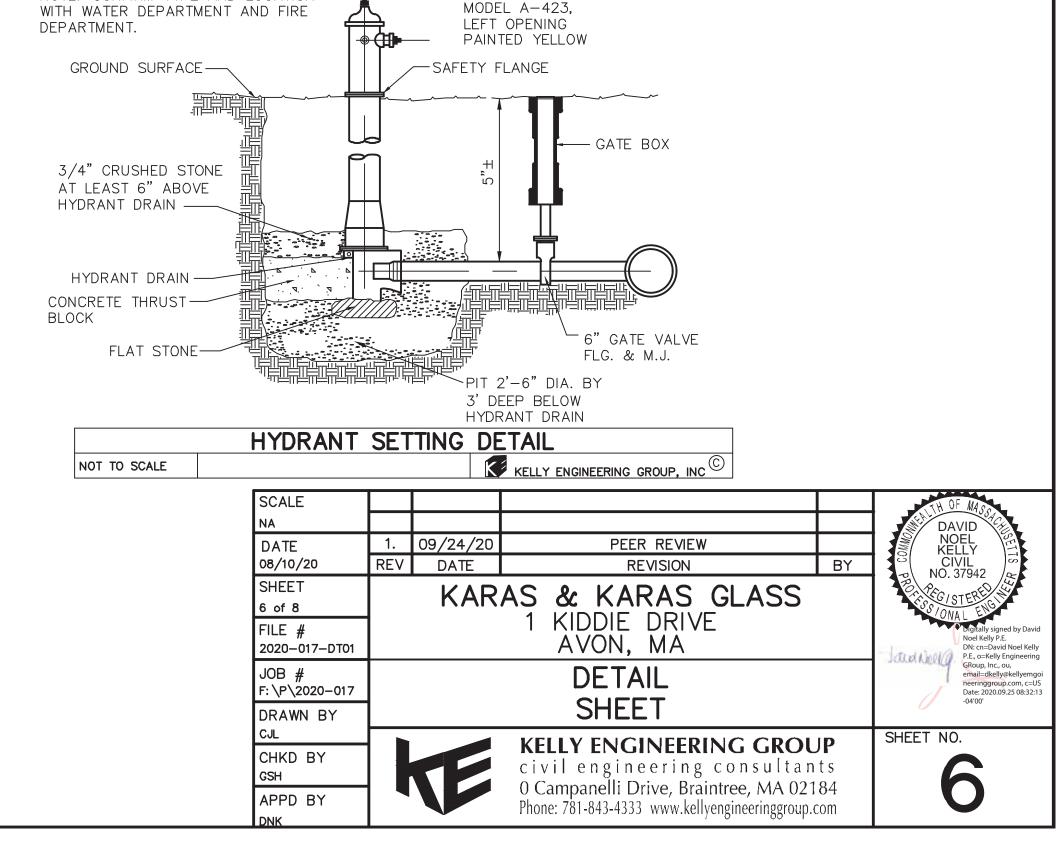
E7. STABILIZATION MEASURES (SEEDING OR PLANTING, APPLYING MULCH OR OTHER NON-VEGETATIVE PRODUCT) OF EXPOSED SOILS SHALL BEGIN AS SOON AS PRACTICABLE AND IMMEDIATELY AFTER EARTH-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED. STABILIZATION TO BE COMPLETED

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

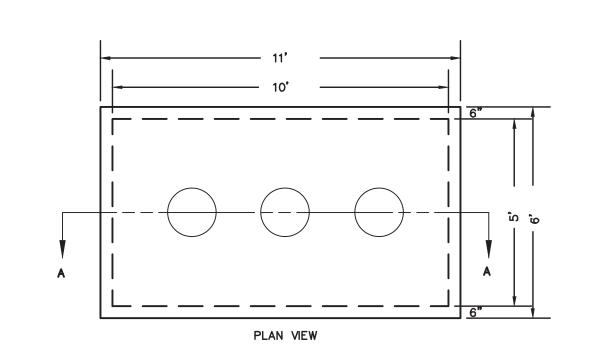
E9. SPARE EROSION/SEDIMENT CONTROL MATERIALS SHALL BE AVAILABLE ON SITE FOR USE IN CONTINGENCY CONDITIONS OR AT THE DIRECTION OF _____ CODE ENFORCEMENT PERSONNEL.

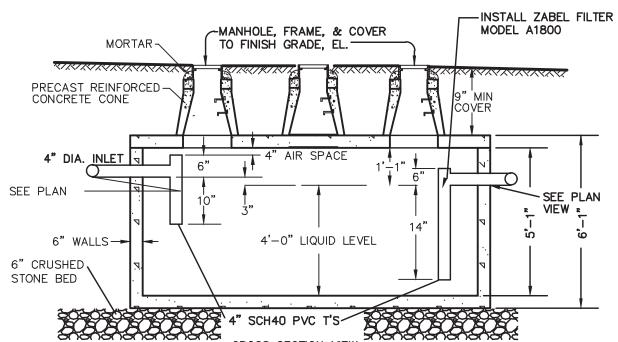
F1. ALL STORM DRAIN INLETS SHOWN TO BE ABANDONED SHALL BE ABANDONED AS FOLLOWS SUCH THAT THE TOPS ARE NO LESS THAN 3' FROM FINISHED GRADE: (A) PRECAST DRAINAGE INLETS SHALL HAVE THE GRATE, FRAME AND CONE SECTION REMOVED. THE STORM DRAIN PIPE SHALL BE PLUGGED USING BRICK AND MORTAR AND THE REMAINING STRUCTURE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

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. HYDRANTS SHALL BE MUELLER



CENTURION 2000,





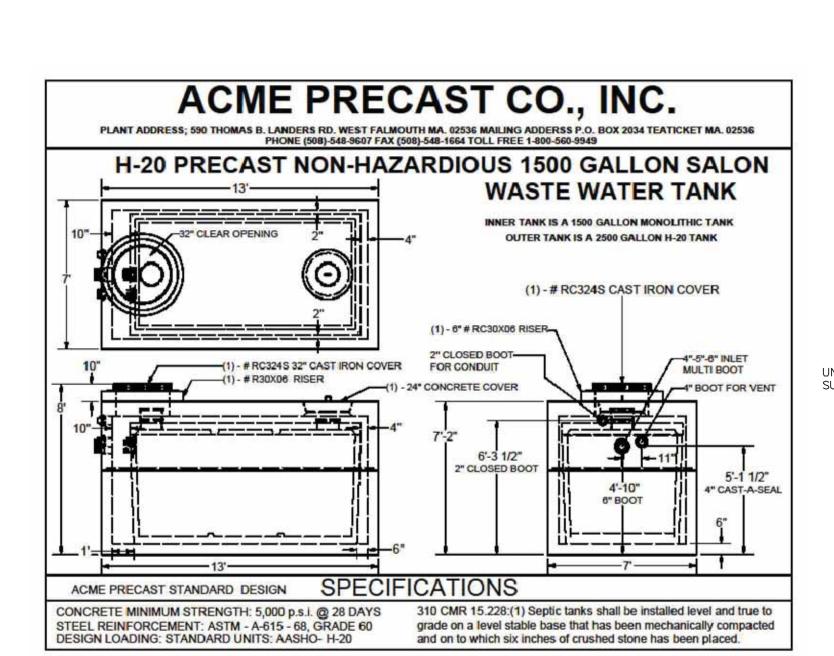
CROSS SECTION VIEW TANK SHALL BE SET LEVEL AND STABLE. TANK SHALL BE DESIGNED FOR H20 LOADING.

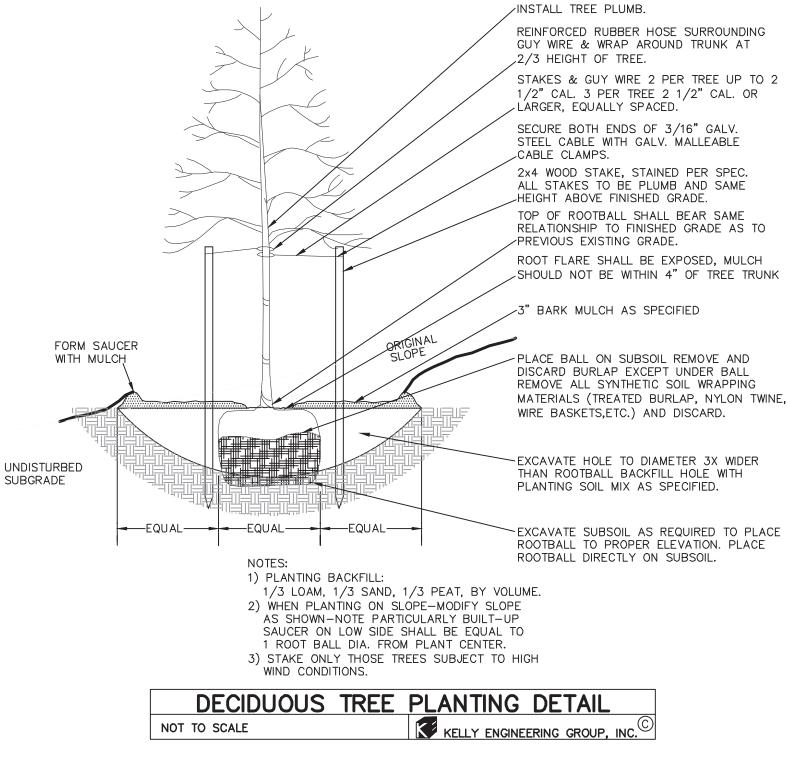
MANHOLE FRAME AND COVER PRODUCT #00125841A03 BY EAST JORDAN IRON WORKS ADJUST TO GRADE WITH REINFORCED CONCRETE LEVELING RING, OR RED BRICK MASONRY 2" MIN. TO 12" MAX. BACKFILL TRENCH -ABOVE STONE WITH STEEL REINFORCED CLEAN COARSE POLYPROPYLENE STEPS BANK RUN GRAVEL -"O" RING RUBBER GASKET JOINTS STANDARD RISERS AS REQUIRED BED ALL DRAIN PIPE PER MANUFACTURERS RECOMMENDATIONS D UP TO 30"= 4' DIA. D UP TO 36"= 5' DIA ALL JOINTS TO BE MORTARED D UP TO 48"= 6' DIA. SMOOTH AND TIGHT. D UP TO 60"= 7' DIA. (SEE NOTE) CONC. SHELF-STORM DRAIN MANHOLE TO REST ON 6" BED OF CLEAN COMPACTED BANK RUN GRAVEL 1) CONCRETE, 4,000 PSI MINIMUM AFTER 28 DAYS. 2) REINFORCED STEEL TO CONFORM TO LATEST ASTM NOTE: CONFIGURATIONS W/ MULTIPLE A185 SPEC. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN. INLETS MAY REQUIRE LARGER STRUCTURES (BOTH WAYS) BASE BOTTOM. 3) H-20 DESIGN LOADING PER AASHTO HS-20-44; ASTM C478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS." 4) STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC STEP TO CONFORM TO LATEST ASTM C478 SPEC.

PRECAST DRAIN MANHOLE DETAIL

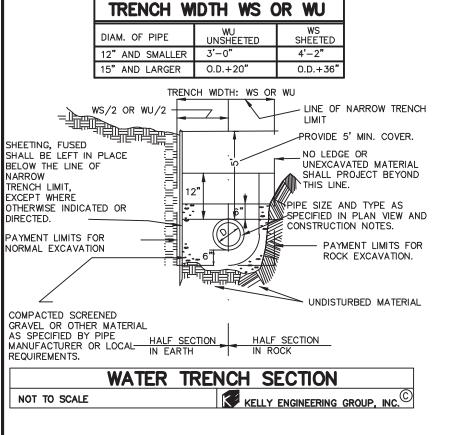
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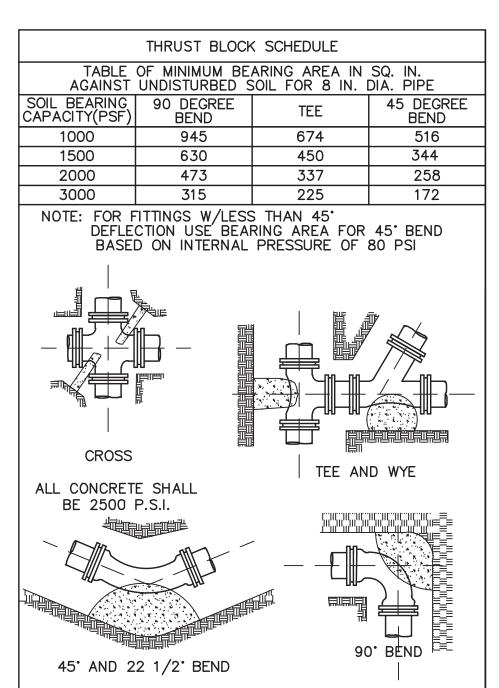
KELLY ENGINEERING GROUP, INC.







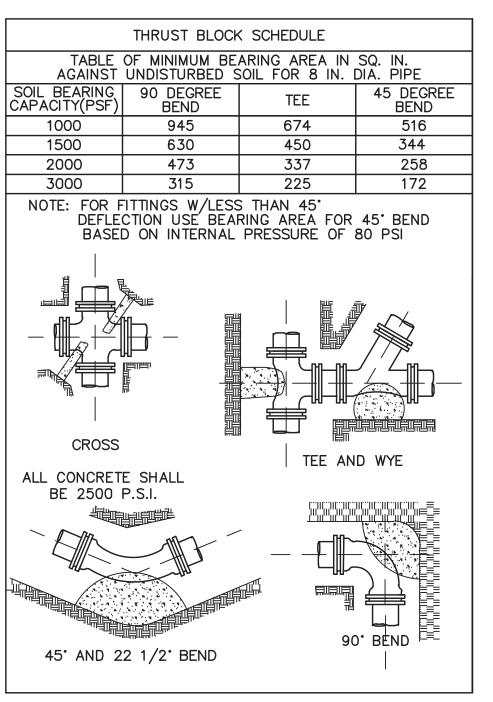




THRUST BLOCK

NOT TO SCALE

KELLY ENGINEERING GROUP, INC.



FRAME AND AND COVER TO COVER TO GRADE WITH "SEAL GRADE WITH TITE" GASKETED "SEAL TITE" FINISHED GRADE COVERS GASKETED COVERS H-20 PRECAST CONCRETE RISERS. VENT TO BE ROUTED THRU BUILDING IN ACCORDANCE WITH STATE AND LOCAL 4 4 4 4 PLUMBING CODES. WASTE PIPE TOTAL CAPACITY OF TANK 1,500 TANK ALERT DUEL WORKING WATER LEVEL @ 75% OF TANK CAPACITY FLOATS ALARMS TO BE WIRED TO BUILDING TANKS, LEAK DETECTION COMPONENTS, PIPE PENETRATION BOOTS, RISERS -LEAK DETECTION DEVICE COVERS AND ALARM TO BE SUPPLIED BY ACME PRECAST CORP. 1,500 GALLON INDUSTRIAL - PROVIDE MINIMUM 1- FOOT COMPACT GRAVEL WASTEWATER HOLDING TANK WITH 2" GRANULAR SAND COVER BELOW PRECAST TANK

24" DIA. HEAVY

DUTY C.I. FRAME

<u>1,500 GALLONS INDUSTRIAL WASTEWATER HOLDING TANK</u> KELLY ENGINEERING GROUP, INC NOT TO SCALE

1) THE INSTALLER IS RESPONSIBLE FOR ASSURING THAT COMPONENTS OF THE SEWAGE DISPOSAL SYSTEM ARE DESIGNED WITH SUFFICIENT STRENGTH TO SUSTAIN ALL LOADS TO BE IMPOSED ON THEM. ANY COMPONENT OF THE SYSTEM SUBJECT TO VEHICULAR TRAFFIC MUST COMPLY WITH A MINIMUM STANDARD OF A.A.S.H.T.O. H-20 WHEEL

2) PRIOR TO SETTING ANY SYSTEM COMPONENT, INSTALLER SHALL VERIFY EXISTING CONDITIONS, INCLUDING ELEVATIONS OF EXIT INVERTS, AND REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER.

3) NO PART OF THIS DESIGN SHALL BE ALTERED WITHOUT PRIOR APPROVAL FROM THE DESIGN ENGINEER AND THE AGENT OF THE LOCAL BOARD OF HEALTH. ALL REQUESTS FOR CHANGES SHALL BE MADE IN WRITING PRIOR TO CONSTRUCTION.

4) THE USE OF ALTERNATE MANUFACTURERS FOR SYSTEM COMPONENTS SHALL NOT BE APPROVED IF THE USE OF THEIR EQUIPMENT REQUIRES CHANGES IN DESIGN.

5) THE INSTALLER SHALL ASCERTAIN THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION, AND SHALL PROTECT UTILITIES WITHIN THE WORK AREA DURING CONSTRUCTION.

6) LEAK DETECTION DEVICE TO BE INSTALLED WITHIN VOID AREA OUTSIDE OF INNER TANK WORKING LEVEL FLOAT/ALARM AND HIGH WATER FLOAT/ALARM TO BE INSTALLED AT 75% AND 90% OF INNER TANK CAPACITY

7) THE ALARM PANEL SHALL BE INSTALLED IN A STAFFED LOCATION WITHIN THE BUILDING. LOCATION TO BE COORDINATED WITH OWNER ALARMS TO BE BOTH AUDIBLE AND VISIBLE.

8.) CONTRACTOR TO PROVIDE BUOYANCY CALCULATIONS

CONSTRUCTION NOTES:

1. INSTALLER TO ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH ENGINEER PRIOR TO CONSTRUCTION.

2. THE LOCATION AND ELEVATION OF EXISTING TREATMENT ROOM BUILDING OUTLET PIPE ARE TO BE VERIFIED PRIOR TO INSTALLATION OF THE PROPOSED

WASTEWATER HOLDING TANK. 3. ENGINEER SHALL INSPECT WHEN THE COMPONENTS OF THE SYSTEM HAVE BEEN INSTALLED (PRIOR TO BACKFILL).

4. INSTALLER TO PERFORM A WATERTIGHT TEST ON LINED I.W.H.T. TEST TO BE WITNESSED BY ENGINEER AND PERFORMED AS FOLLOWS: - INSTALLER TO FILL TANK WITH WATER AND ENGINEER TO MEASURE WATER - ENGINEER TO RE-MEASURE WATER LEVEL 24 HOURS AFTER START OF

TEST. - TANK TO BE PUMPED DRY UPON COMPLETION OF TEST BY INSTALLER. 6. ALARMS TO BE TESTED AT TIME OF COMPLETION OF INSTALLATION

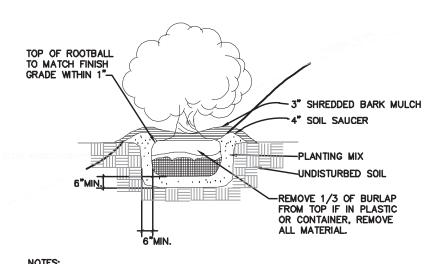
7. A SIGN SHALL BE INSTALLED ADJACENT TO THE HOLDING TANK THAT READS "NON-HAZARDOUS INDUSTRIAL WASTEWATER HOLDING TANK"

COMPLIANCE NOTE:

OWNER SHALL MAINTAIN I.W.H.T. IN ACCORDANCE WITH DEPARTMENT OF ENVIRONMENTAL PROTECTION 314 CMR 18.00 INDUSTRIAL WASTEWATER HOLDING TANK AND CONTAINER CONSTRUCTION, OPERATION, AND RECORD KEEPING REQUIREMENTS AND LOCAL REGULATIONS.

8. TANK TO BE CERTIFIED PER 314 CMR 18.00 AFTER INSTALLATION.

TANK SHALL BE INSPECTED WEEKLY BY FACILITY OPERATOR. INSPECTION AND PUMPING RECORDS SHALL BE MAINTAINED ON SITE.



NOTES:
1) PLANTING BACKFILL: 1/3 LOAM, 1/3 SAND, 1/3 PEAT, BY VOLUME. 2) WHEN PLANTING ON SLOPE-MODIFY SLOPE AS SHOWN-NOTE PARTICULARLY BUILT-UP SAUCER ON LOW SIDE SHALL BE EQUAL TO 1 ROOT BALL DIA. FROM PLANT CENTER.

SHRUB PLANTING DETAIL

NOT TO SCALE

KELLY ENGINEERING GROUP, INC.

DAVID 1. 09/24/20 PEER REVIEW DATE 08/10/20 REV DATE REVISION SHEET KARAS & KARAS GLASS 7 of 8 KIDDIE DRIVE FILE # AVON, MA 2020-017-DT01 P.E., o=Kelly Engi GRoup, Inc., ou, JOB # **DETAIL** email=dkelly@kel F: \P\2020-017 SHEET Date: 2020.09.25 DRAWN BY 08:33:12 -04'00' SHEET NO. **KELLY ENGINEERING GROUP** CHKD BY civil engineering consultants 0 Campanelli Drive, Braintree, MA 02184 APPD BY Phone: 781-843-4333 www.kellyengineeringgroup.com

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TYPICAL SUBSURFACE RECHARGE AREA (CULTEC 330XLHD) PLAN VIEW (INFILTRATION TO BE CULTEC OR APPROVED EQUAL)

*SEE CULTEC RECHARGER 330XLHD STORMWATER MANAGEMENT SYSTEM DESIGN FOR INSTALLATION INSTRUCTIONS
PROPRIETARY SHOP DRAWINGS TO BE PROVIDED PRIOR TO INSTALLATION

CRUSHED STONE SINGLE LAYER

USE 1 1/2" - 2" (H-20 LOAD RATING)

WASHED

TOP OF STONE = 218.0

TYPICAL END CAP OPENING

FOR HEADER TEE

12" (TYP.)

EXISTING GRAVEL
MATERIAL

6"(TYP.)

CRUSHED STONE
USE 1 1/2" - 2"
WASHED

12" (TYP.)

FILL BENEATH SYSTEM SHALL BE
REMOVED, REPLACE WITH SAND. THAT COMPLIES
WITH "FILL MATERIAL" FOR SEWAGE
DISPOSAL SYSTEMS. SEE 310CMR 15.255 (3)
APPROXIMATE REMOVE & REPLACE TO
ELEVATION 209. ENGINEER TO BE ON
SITE TO VERIFY.

) ALL UNSUITABLE MATERIAL OR

STORMWATER MANAGEMENT SYSTEM CONSTRUCTION OPERATION + MAINTENANCE NOTES:

BOTTOM CHAMBER = 215.0-

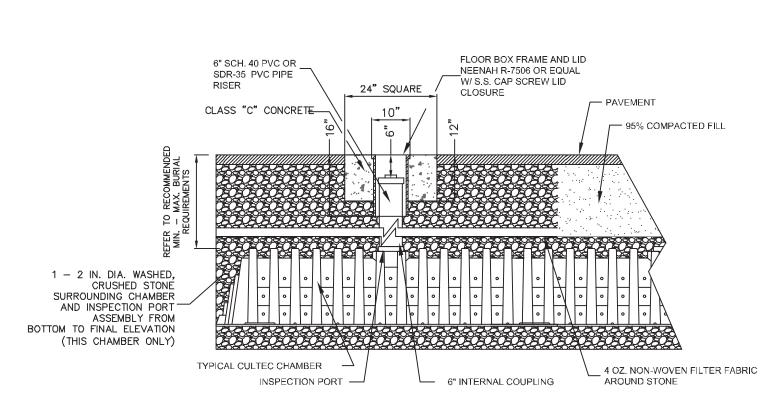
ESHGW = 209.0

- 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.

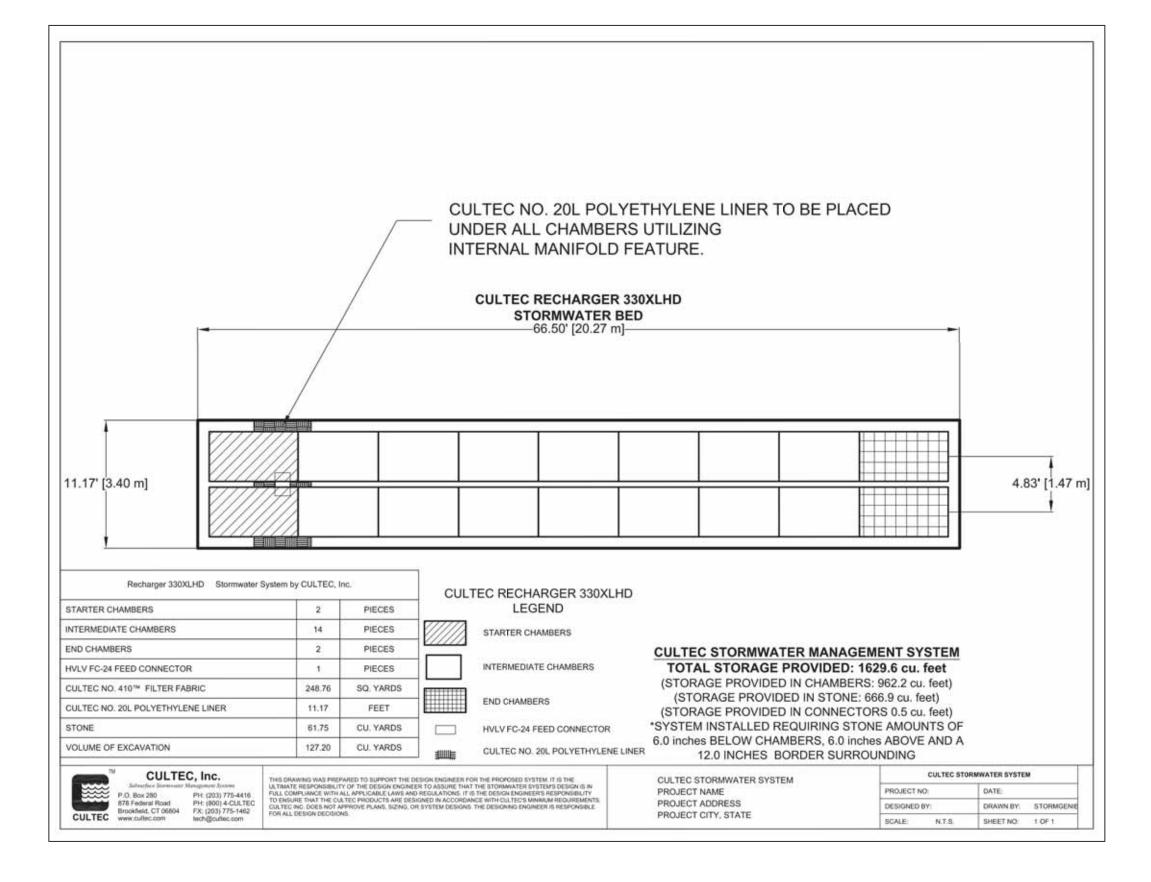
CONSTRUCTION INSPECTION SCHEDULE

- 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.





TYPICAL H20 INSPECTION PORT DETAIL



1. 09/24/20 PEER REVIEW 08/10/20 REV DATE REVISION KARAS & KARAS GLASS

1 KIDDIE DRIVE
AVON, MA SHEET 8 of 8 FILE # 2020-017-DT01 Date Norta. DETAIL JOB # F: \P\2020-017 SHEET DRAWN BY SHEET NO. **KELLY ENGINEERING GROUP** CHKD BY civil engineering consultants 0 0 Campanelli Drive, Braintree, MA 02184 APPD BY Phone: 781-843-4333 www.kellyengineeringgroup.com

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