TOWN OF HANOVER

2819 OCT 16 PM 1: 37
TOWN CLERK

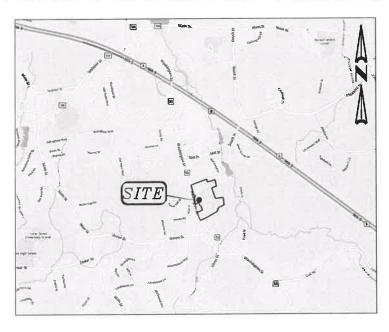
SITE DEVELOPMENT PLANS

FOR

1143 WASHINGTON ST. HANOVER, MA

OCTOBER 10, 2019

| SHEET INDEX | | | | | |
|-------------|--------------------------|---------------------|--------------|-----------|--|
| SHEET No. | DESCRIPTION | LATEST REVISED DATE | CONSTRUCTION | REVISIONS | |
| 1 | COVER SHEET | | | | |
| 2 | OVERALL LAYOUT PLAN | | | | |
| 3 | EXISTING CONDITIONS PLAN | | | | |
| 4 | LAYOUT PLAN | | | | |
| 5 | CRADING PLAN | | | | |
| 6 | SEWER & DRAIN PLAN | | | | |
| 7 | UTILITY PLAN | | | | |
| 8 | DETAIL SHEET | | | | |
| 9 | DETAIL SHEET | | | | |
| 10 | DETAIL SHEET | | | | |



LOCATION MAP

APPLICANT:

BSL HANOVER DEVELOPMENT LLC 201 JONES ROAD, SUITE 300 WEST WALTHAM, MA 02451

OWNER:

HANOVER WASHINGTON LIMITED PARTNERSHIP 625 MT. AUBURN ST. SUITE 210 CAMBRIDGE, MA 02138

CIVIL ENGINEERS:

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

LANDSCAPE ARCHITECTS:

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

ARCHITECTS

UDELSMAN ASSOCIATES 161 FEDERAL HILL ROAD HOLLIS, NH 03049

Digitally signed by David Nos Kaly P.E.
On the David Nost Kally P.E.
On the David Nost Kally P.E.,
On the David Nost Kally P.E.,
On David Nost Kally P.E.,
On David Nost Institute of David Nost Institute of David Nost Ins



| Deres 2019, 50.45 02;5649 | | | | |
|---------------------------|------------------|-----------------------|--|--|
| OF BASE | SCALE NA | JOB # F: \P\2019-0 | | |
| | DATE 10/10/19 | DRAWN BY | | |
| 37942 | SHEET 1 of 10 | CHKD BY | | |

F: PY2019-041

DRAWN BY
CaL

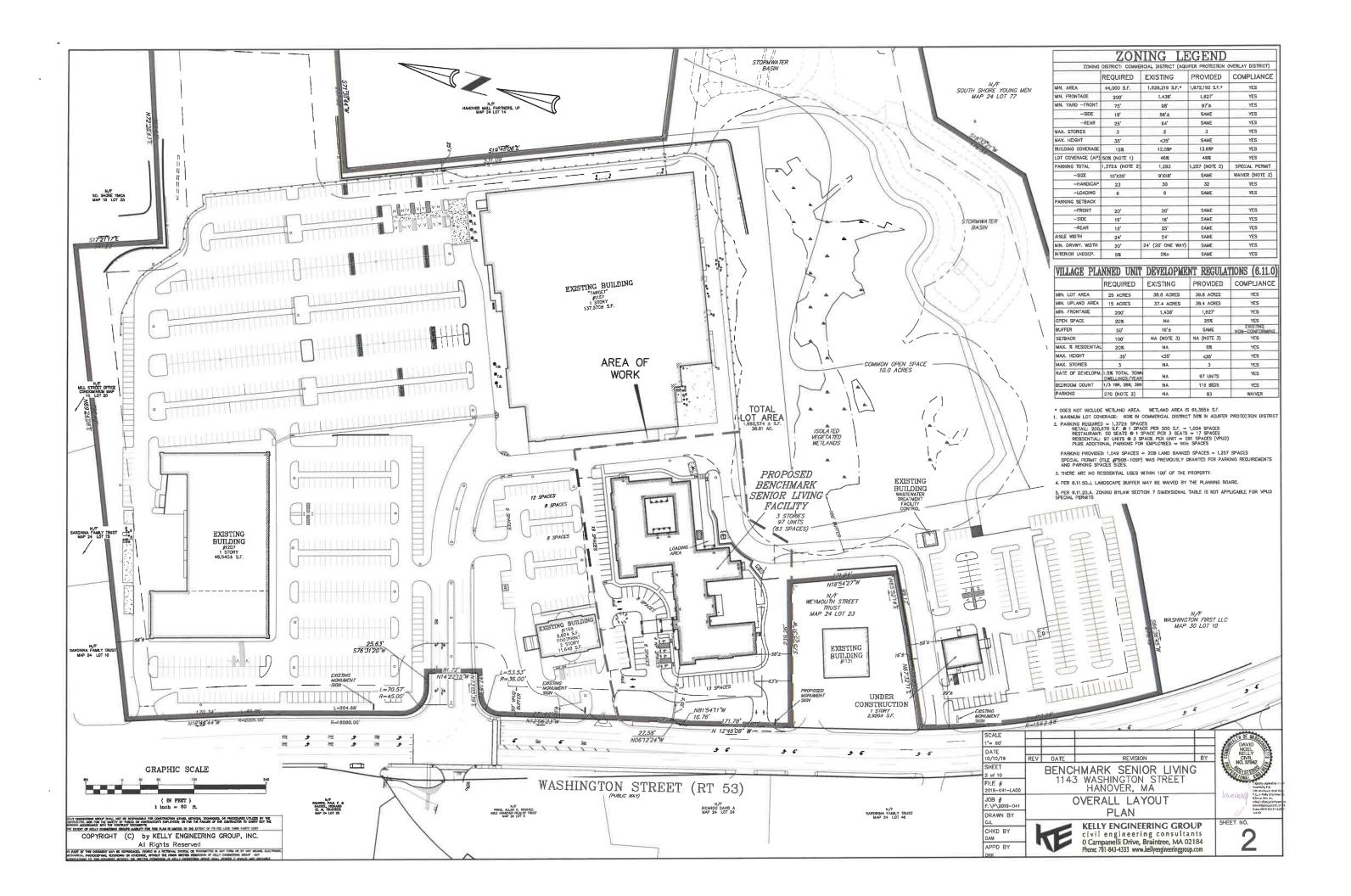
CHKD BY
DAM

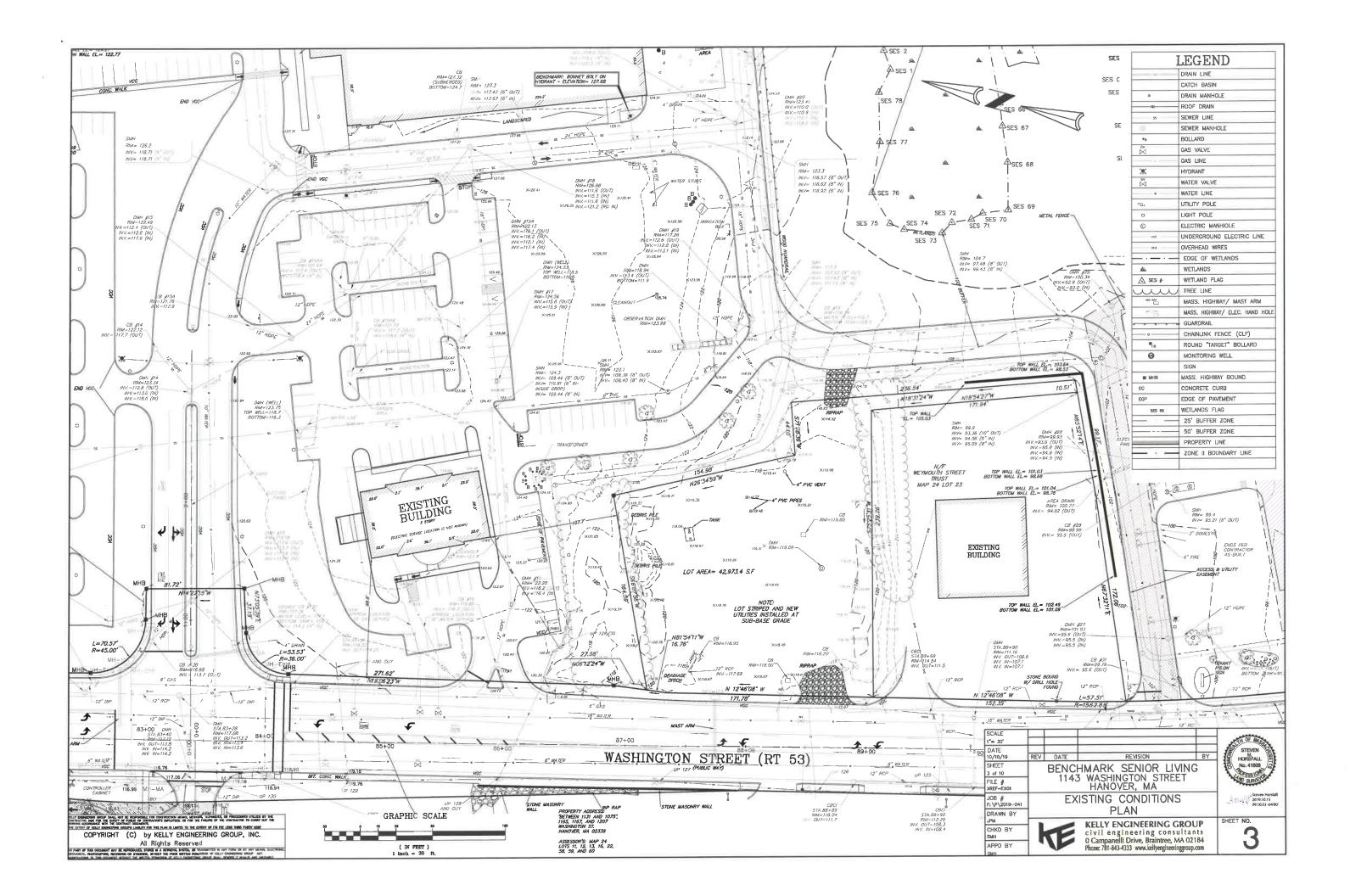
WASHINGTON STREET HANOVER, MA KELLY ENGINEERING GROUP

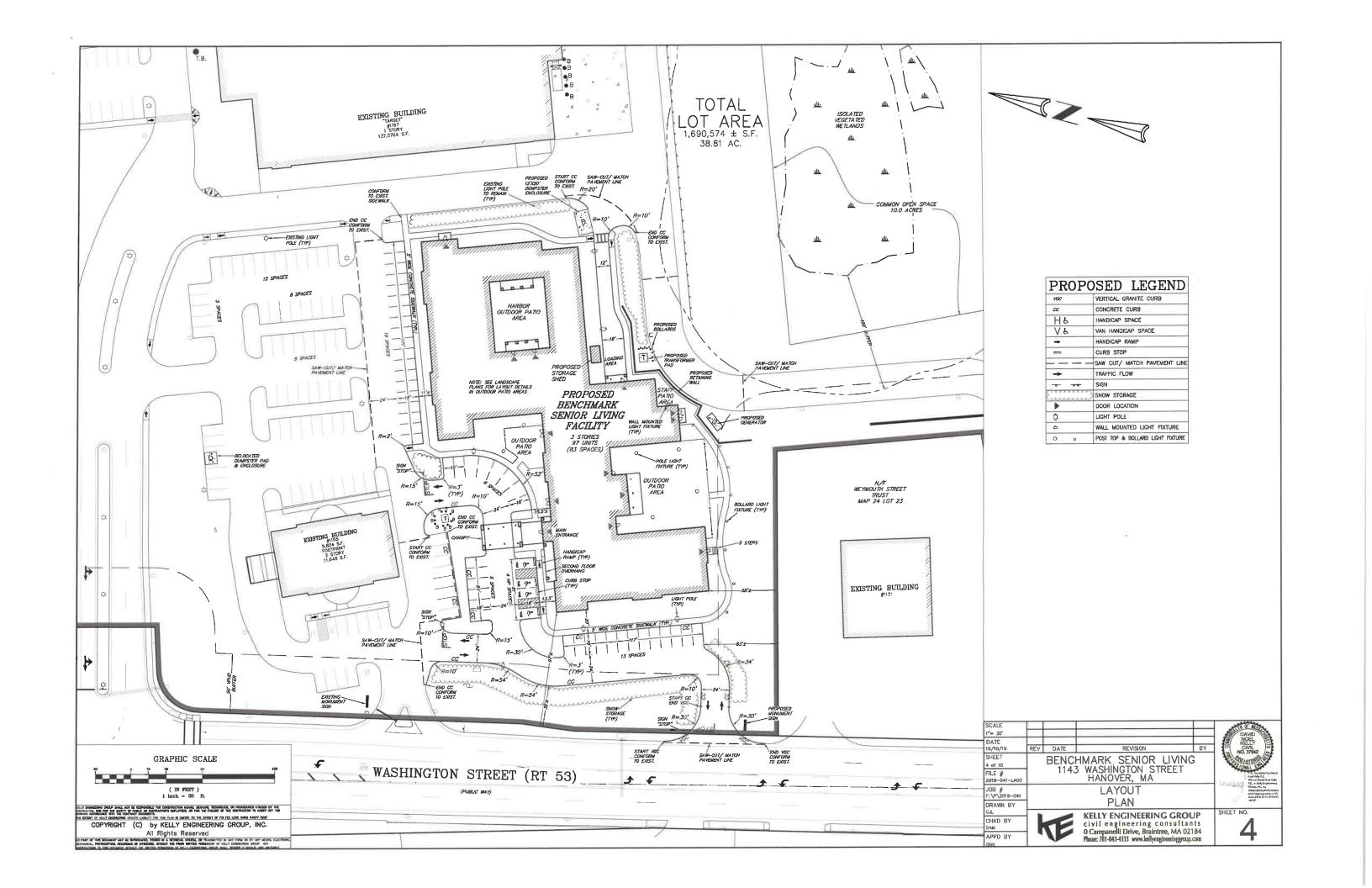
KELLY ENGINEERING GROUP civil engineering consultants O Campanelli Drive, Braintree, MA 02184 Phone 781-843-4333 www.kellyengineeringgroup.com

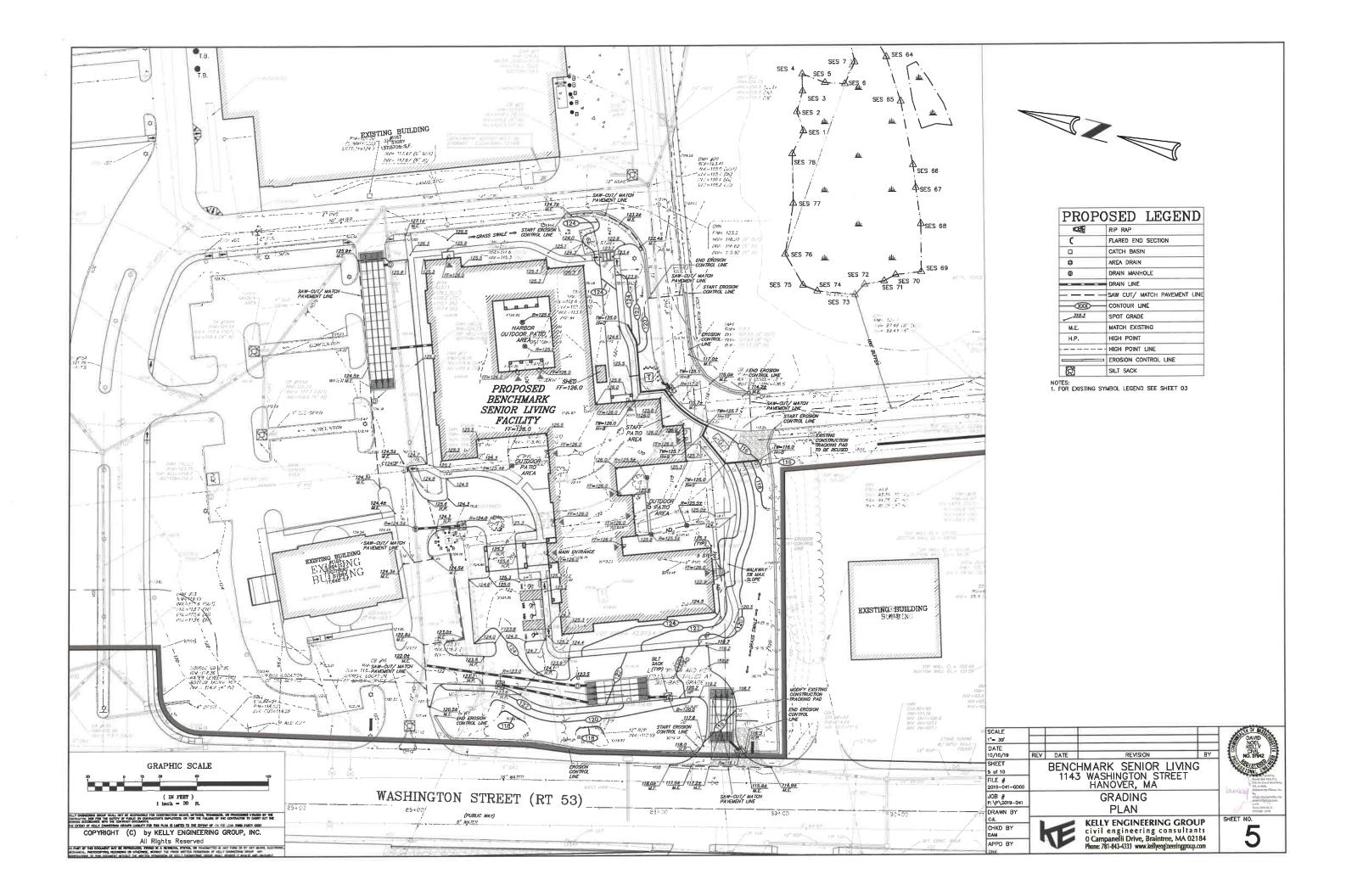
I PROGRESSION OFFICE SHALL NOT BE REPORTED FOR COMMUNICATION LEVEL SHATCH, TEXTORAL TEXTORAL TO INTRODUCES OF THE MEMORY, NOR FOR THE SHATCH OF THE COMMUNICATION AND THE MEMORY OF THE CONTROL OF DEAR OF THE MEMORY OF THE COMMUNICATION OF THE MEMORY OF TH

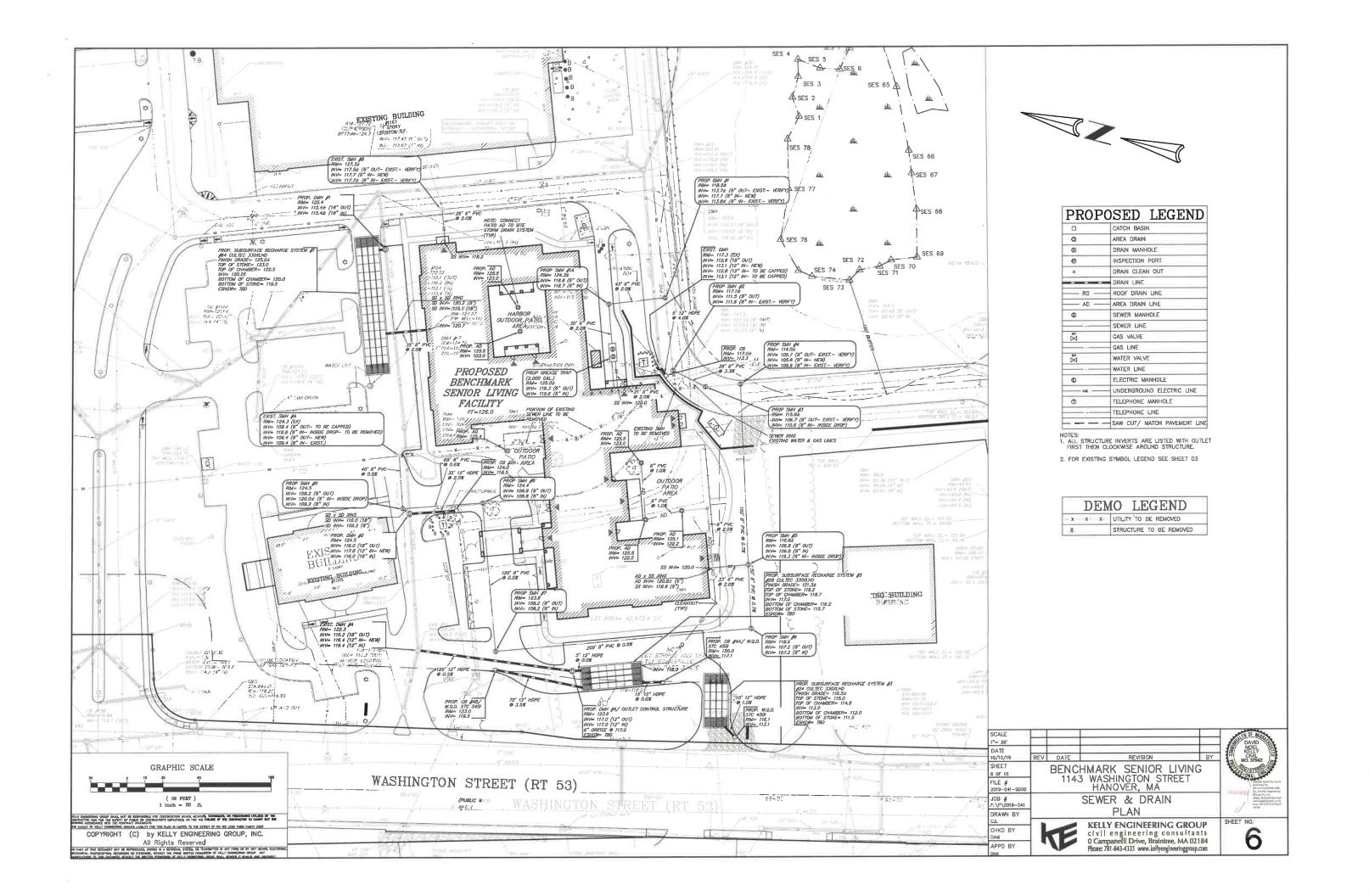
PART OF THE DOCUMENT MAY BE REPRODUCED, STITCH IN A RECTICAL SYSTEM, OR SWANGSHILL IN MAY FORM OR BY MAY MEMOL.

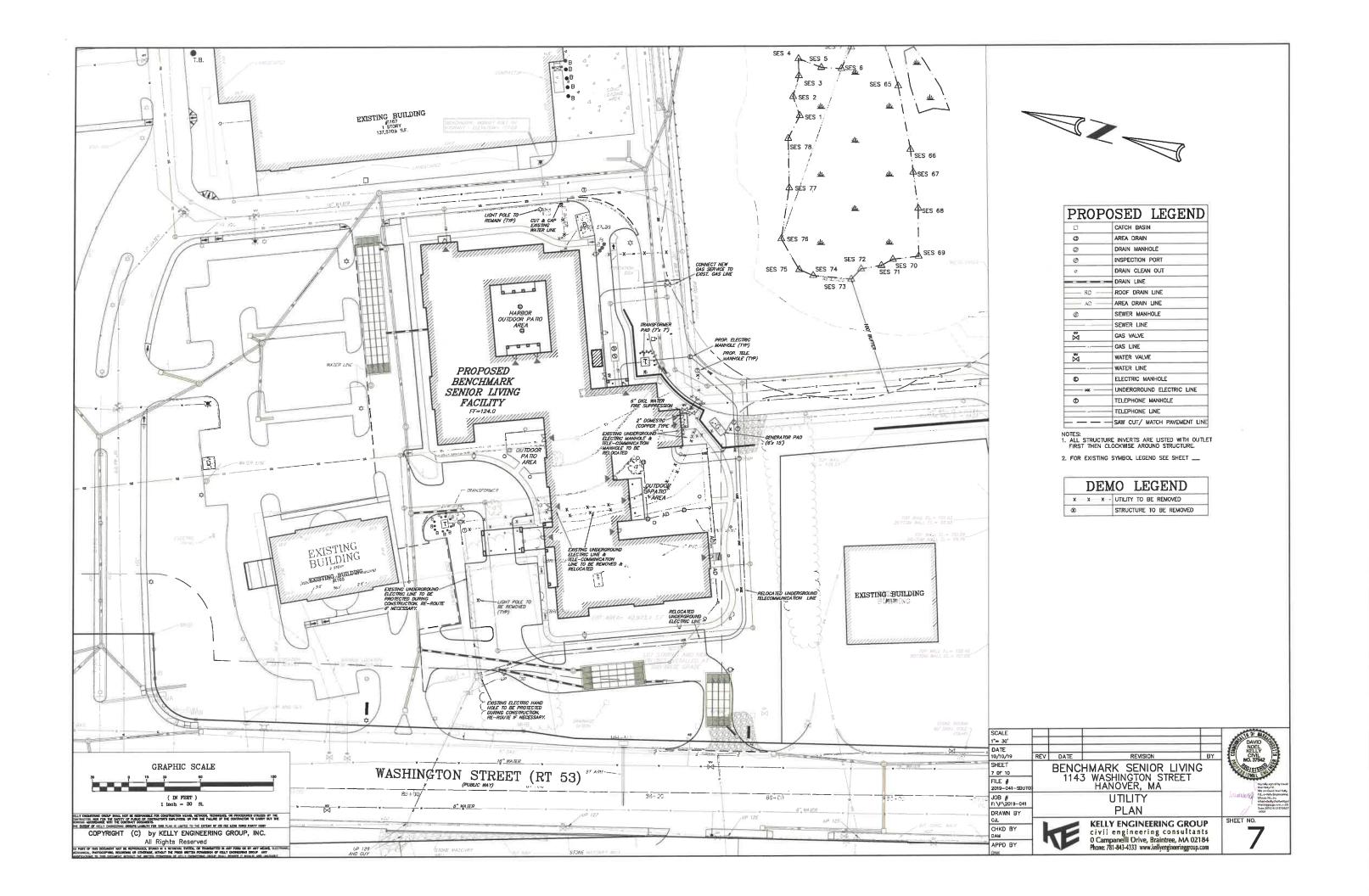


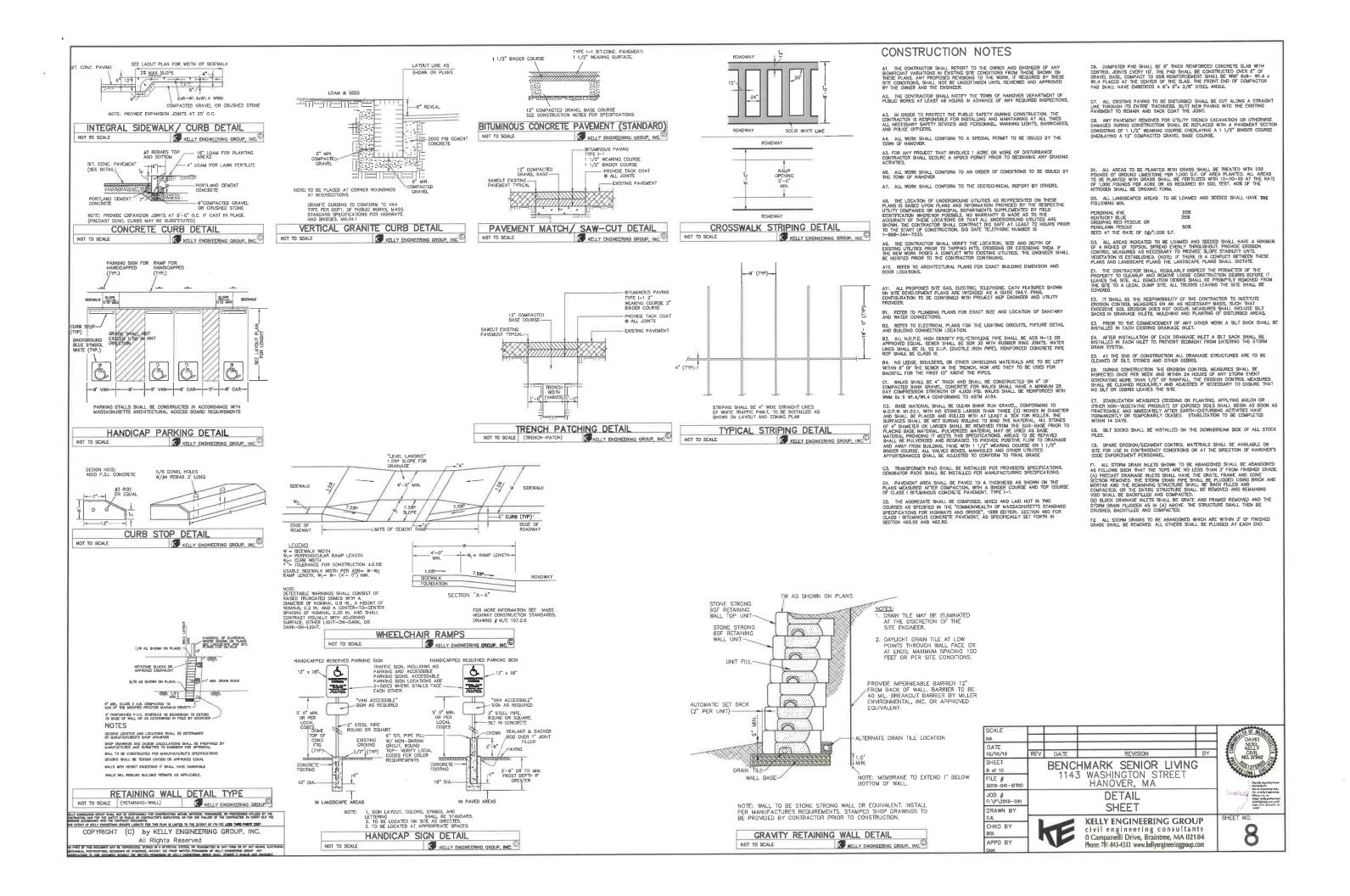


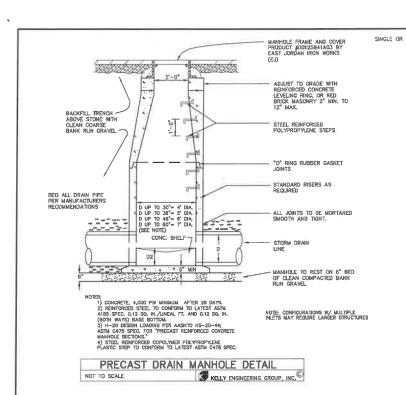


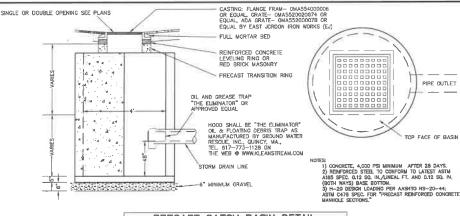




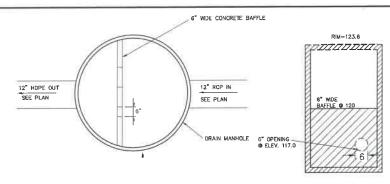








PRECAST CATCH BASIN DETAIL KELLY ENGINEERING GROUP, INC.

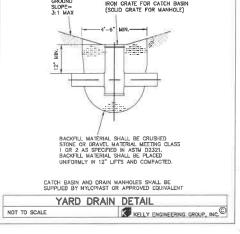


TOP VIEW

SECTION

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

CONTROL STRUCTURE MANHOLE KELLY ENGINEERING GROUP, INC



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

R SYSTEM PT. 8" FOR SYSTEM PZ AND P3) 12" (TVP.) TYPICAL END CAP OPENING DISSING GAVE. 05"(TVP.) ORIGINATION OF THE AMERICAN OF THE OPENING THE OPENING

*18.5" FOR 150XLHD SYSTEM SECTION 1-1 (PARTIAL)

STORMWATER MANAGEMENT SYSTEM. CONSTRUCTION OPERATION + MAINTENANCE NOTES.

1. EXTREME CARE SHALL BE TAKEN DURING CONSTRUCTION TO AVOID SILTATION DURING THE CONSTRUCTION PROCESS. SILT CAGES AND HAYBALE DIKES SHALL BE INSPECTED DAILY AND REPLACED IF NECESSARY.

2. EXTREME CARE SHALL BE TAKEN TO PREVENT COMPACTION OF UNDISTURBED SOLES BROATH 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 AND MAINTENANCE SCHEDULE: CONSTRUCTION INSPECTION SCHEDULE

. WEEKLY INSPECTIONS SHALL BE PERFORMED BY THE APPLICANTS ENGINEER AND A REPRESENTATIVE FROM

1. WEEKLY INSPECTIONS SHALL BE PERFORMED BY THE APPLICANTS ENGINEER AND A REPRESENTATIVE FROM THE TOWN'S ENGINEERING DEPARTMENT.

2. INSPECTIONS SHALL INCLUDE THE PAYEMENT TO DETERMINE IF ACCUMULATED SEDIMENT IS TO BE REMOVED, OF THE CATCH BASINS TO DETERMINE DEPTH OF SEDIMENTS AND REQUIRED CLEANING, INSPECTION OF THE STORMOEPTOR TO DETERMINE IF CLEANING IS NECESSARY AND INSPECTION OF THE LEACHING SYSTEM SHALL BE CONDUCTED BY THE ENGINEER AND THE TOWN'S ENGINEERING PAPARTMENT.

3. AN INSPECTION OF THE EXCAVATION OF THE LEACHING SYSTEM SHALL BE CONDUCTED BY THE BROWNESS AND A REPRESENTATIVE THE TOWN'S ENGINEERING DEPARTMENT FROM TO PLACEMENT OF ANY MATERIAL OR CHAMBERS.

CONSTRUCTION MAINTENANCE SCHEDULE

1. WHEN THE BINDER COURSE HAS BEEN INSTALLED THE PAVEMENT SHALL BE KEPT CLEAR OF ACCUMULATED SEDIMENTS, IF ACCUMULATED SEDIMENTS ARE DEPOSITED ON THE PAVEMENT THE SEDIMENT SHALL BE CLEANED IMMEDIATELY. THE PAVEMENT SHALL BE SWEPT AS NECESSARY BASED ON THE WEEKLY INSPECTIONS. THE CONTRACTOR SHALL INSPECT THE PAVEMENT ON A DAILY BASIS AND REMOVE ACCUMULATED SEDIMENTS AS NECESSARY.

NECESSARY.

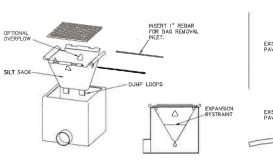
2. "SILT SAKS" SHALL BE INSTALLED AT ALL CATCH BASIN AND DROP INLET LOCATIONS. THE CONTRACTOR SHALL IMSPECT THE "SILT SAKS" ON A WEEKLY BASIS AND AFTER HEAVY RAINSTORMS AND EMPTIED BASED ON MANUFACTURERS RECOMMENDATIONS.

3. THE CATCH BASINS SHALL BE INSPECTED ON A WEEKLY BASIS ANDS AFTER HEAVY RAINSTORMS. THE CATCH BASINS SHALL BE CLEANED WHEN 6" OF SEDIMENT HAS ACCUMULATED IN THE SUMP.

4. THE STORMCEPTOR SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER HEAVY RAINSTORMS. THE STORMCEPTOR SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER HEAVY RAINSTORMS. THE STORMCEPTOR SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER HEAVY RAINSTORMS. THE STORMCEPTOR SHALL BE CLEANED BASED ON THE MANUFACTURERS RECOMMENDATIONS.

5. THE INFILTRATION GALLEYS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER HEAVY RAINSTORMS AND SHALL BE CLEANED WHEN 2" OF SEDIMENT HAS ACCUMULATED IN THE INLET CHAMBER.

INFILTRATOR SUBSURFACE DETENTION
AREA PLAN VIEW
NOT TO SCALE (NFIL-SUB-DET) STELLY ENGHERING CHOUP, ARC CO.





CROSS SECTION

-50° MINIMUM-

TRACKING PAD NOTES:

1. STONE SIZE - USE 2" CRUSHED STONE

2. FILTER CLOTH — SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

3. SURFACE WATER — ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHOULD BE FIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERN SHOULD BE FERM TED.

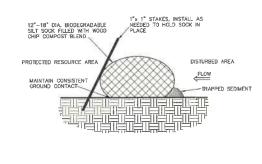
4. MAINTENANCE — THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS—OF—WAY. HIS MAY REQUIRE PERBODIC FOR OF ORESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANING OF ANY MEASURES USED TO TRAY SEDMENT, ALL SEDMENT SPILLED, DROPPED, MASHED OR TRACKED ONTO PUBLIC RIGHTS—OF—WAY MUST BE REMOVED IMMEDIATELY.

CALS Oute 2019.10.13

9







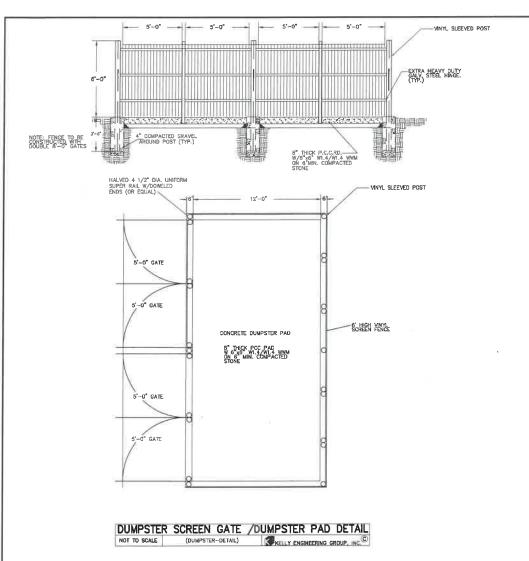
SILT SOCK LINE DETAIL

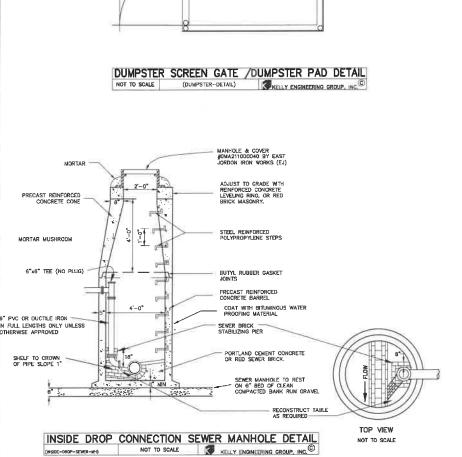
XELLY ENGINEERING GROUP, INC.



TO DESCRIPTION OF SMALL MOT BE REPROSEDED FOR CONSERVATION MAKES, LETHOOS, TIDORICALS, OF PROCESSINGS VIRILED BY THE CONTROL OF THE CASE THE CASE THE CONTROL OF THE CASE THE All Rights Reserved

DUCKE, STORED HE A RETREVAL SYSTEM, OR TRANSMITTED HE MAY FORM OR BY MAY BEAUS, ELECTRON OTHERWISE, WITHOUT THE PROOF WINTED PERMISSION OF HELLY EXCREEDING GROUP. ANY





LIT DESIGNED GOLD BUIL HOT IS REPORTED TO CONTRACTOR HOUSE, RETINDENT TO PROCEEDING USED BY THE
FINANCIA HOUSE HAVE TO PRIME SHOOT PRIME SHOOT HOUSE OF THE FALLEY OF THE CONTRACTOR IN CORN OF THE
FORTH OF MAIL PROCESSING GROUP HEAVET OF THE HEAR HAVE THE THE TO THE CENTER OF THE LIES HE PREST COST

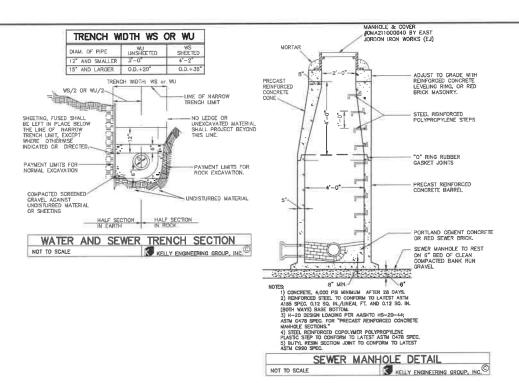
COPYRIGHT (C) by KELLY ENGINEERING GROUP, INC.

All Rights Reserved

All Rights Reserved

All Rights Reserved

Final or lies booked for the removable, shade in a femiliary shade, or business in wife force on in which the removable of the rem



12'-0" PLAN VIEW MANHOLE, FRAME, & COVER TO FINISH GRADE, EL. PRECAST RENFORCED CONCRETE CONE A DIA, C.I. VENT TO BUILDING SEE PLUMBING PLANS NOTE 2 4' LIQUID LEVEL

CROSS SECTION VIEW SCITUATE 6x12

- NOTE:

 1. VENT SHALL BE PIPED TO THE INSIDE OF THE BUILDING IN COMPIANCE WITH 248 CMR 10.16(5)(E). VENT SHALL BE ABOVE WATER LEVEL AND INVERTS.

 2. THE INLET TEE SHALL EXTEND TO THE MID DEPTH OF THE TANK. THE OUTLET TEE SHALL EXTEND TO WITHIN 12 INCHES OF THE BOTTOM OF THE TANK. THE OUTLET TEE SHALL EXTEND TO WITHIN 12 INCHES OF THE BOTTOM OF THE TANK. THE SHALL BE CONTINUED ON THE TANK THE SHALL BE SHALL BE ON THE TOPOPERLY SUPPORTED BY A HANGER, STRAP OR OTHER DEVICE. (310 CMR 15.230(5))

 3. SHALL BE INSTALLED ON A LEVEL STABLE BASE THAT HAS BEEN MECHANICALLY COMPACTED AND ONTO WHICH 6 INCHES OF CRUSHED STONE HAS BEEN PLACED TO MIMIMIZE UNEVEN SETTING.

 4. THE INLET AND OUTLET SHALL BE LOCATED AT THE CENTER LINE OF THE TANK, AND AT LEAST 12 INCHES ABOVE THE HIGH GROUNDWATER ELEVATION.

2,000 GALLONS PRECAST GREASE TRAP KELLY ENGINEERING GROUP, INC

