# RENOVATION AND ADDITION "EXETER MEDICAL ONCOLOGY"

TAX MAP 65, LOT 131 5 ALUMNI DRIVE, EXETER, NH

# SHEET INDEX

C1

C4

E1

CS **COVER SHEET** 

EXISTING CONDITIONS PLAN

C<sub>1</sub>A DEMOLITION PLAN

**GENERAL NOTES** 

SITE & UTILITY PLAN

C3 GRADING AND DRAINAGE PLAN

CONSTRUCTION STAGING PLAN

D1-D3 **DETAIL SHEETS** 

**EROSION AND SEDIMENT CONTROL DETAILS** 

L0.0 - L5.3 LANDSCAPE PLANS

ARCHITECTURAL RENDERING

**APPLICANT** EXETER HOSPITAL, INC. 5 ALUMNI DRIVE, SUITE 205 EXETER, NH 03833 CONTACT: PHILIP CHAPUT

CIVIL ENGINEER / SURVEYOR JONES & BEACH ENGINEERS, INC. **85 PORTSMOUTH AVENUE** PO BOX 219 STRATHAM, NH 03885 (603) 772-4746 **CONTACT: BARRY GIER** 

EMAIL: BGIER@JONESANDBEACH.COM

**ARCHITECT SMITHGROUP** 

100 HIGH STREET **SUITE 1800** BOSTON, MA 02110 (617) 502 -3562

CONTACT: CHRISTINE RANCOURT

EMAIL: CHRISTINE.RANCOURT@SMITHGROUP.COM

OWNER OF RECORD EXETER HOSPITAL, INC.

5 ALUMNI DRIVE, SUITE 205 EXETER. NH 03833

LANDSCAPE ARCHITECT HALVORSON DESIGN

25 KINGSTON STREET BOSTON, MA 02111 (617) 536-0380 CONTACT: ROBERT UHLIG EMAIL: BOBU@HALVORSONDESIGN.COM WATER AND SEWER

EXETER DEPARTMENT OF PUBLIC WORKS 13 NEWFIELDS ROAD EXETER, NH 03833 (603) 773-6157

**ELECTRIC** 

**EVERSOURCE** 740 N COMMERCIAL ST **PO BOX 330** MANCHESTER, NH 03105-0330 (800) 662-7764

**ELECTRIC** 

UNITIL NEW HAMPSHIRE **6 LIBERTY LANE WEST** HAMPTON, NH 03842 (603) 772-0775

**PERMITS** 

TYPE OF PERMIT

STATUS

SUBMITTED:

**EXETER SITE PLAN APPROVAL:** TOWN OF EXETER PLANNING BOARD

10 FRONT STREET PERMIT NO. **EXETER, NEW HAMPSHIRE 03833** 

(603) 773-6112 RESPONSIBLE CONSULTANT:

DATED:

**EXPIRATION**:

JONES & BEACH ENGINEERS, INC.

SUBMITTED:

**ENVIRONMENTAL SERVICES - WATER DIVISION** 

PERMIT NO.

29 HAZEN DRIVE, P.O. BOX 95 CONCORD, NEW HAMPSHIRE 03302-009 (603) 271-3503

RESPONSIBLE CONSULTANT: JONES & BEACH ENGINEERS, INC. **EXPIRATION:** 

USEPA NPDES PHASE II CONSTRUCTION GENERAL PERMIT. (NOT) TO BE FILED IN ACCORDANCE WITH FEDERAL AND LOCAL REGULATIONS PRIOR TO AND FOLLOWING CONSTRUCTION: **EPA STORMWATER NOTICE PROCESSING CENTER** MAIL CODE 4203M,

US EPA 1200 PENNSYLVANIA AVENUE, NW WASHINGTON, DC 20460 RESPONSIBLE CONSULTANT: JONES & BEACH ENGINEERS, INC.

SCALE 1'' = 2000'

**LOCUS MAP** 

TELEPHONE

CONSOLIDATED COMMUNICATIONS 100 TRI CITY ROAD SOMERWORTH, NH 03878 ATTN:DAVE KESTNER (603) 743-1114

CABLE TV

COMCAST COMMUNICATION CORPORATION 334-B CALEF HIGHWAY EPPING, NH 03042-2325 (603) 679-5695

PROJECT PARCEL TOWN OF EXETER TAX MAP 65, LOT 131

**APPLICANT** EXETER HOSPITAL **5 ALUMNI DRIVE** EXETER, NH

APPROVED - EXETER, NH PLANNING BOARD

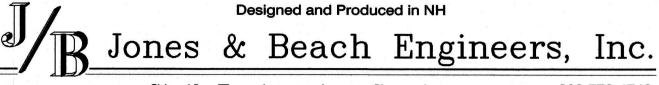
DATE:

Design: BWG | Draft: DJP Date: 11/6/2020 Checked: BWG Scale: AS NOTED Project No.: 19139 Drawing Name: 19139-PLAN.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN

PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



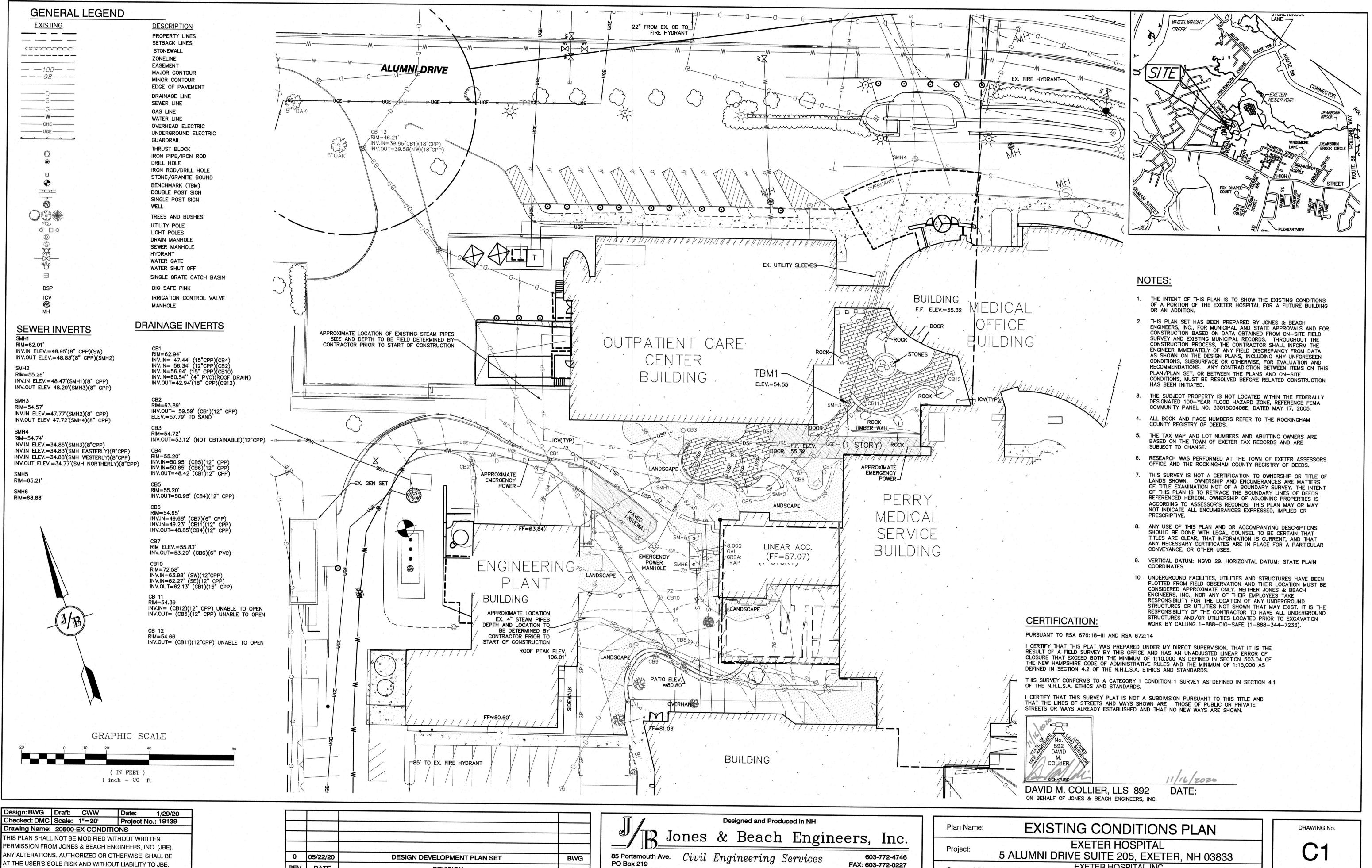
5	11/16/20	REVISED PER TOWN ENGINEER	BWG
4	10/01/20	REVISED SEWER DESIGN	BWG
3	07/24/20	DETAIL REVISIONS	BWG
2	06/25/20	DETAIL REVISIONS	BWG
1	06/09/20	SCALE RESOLUTION	BWG
REV.	DATE	REVISION	BY



85 Portsmouth Ave. Civil Engineering Services FAX: 603-772-0227 PO Box 219 Stratham, NH 03885 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	COVER SHEET
Project:	EXETER MEDICAL ONCOLOGY 5 ALUMNI DRIVE, EXETER, NH
Owner of Record:	EXETER HOSPITAL 5 ALUMNI DRIVE, EXETER, NH

DRAWING No. SHEET 1 OF 27 JBE PROJECT NO. **19139** 



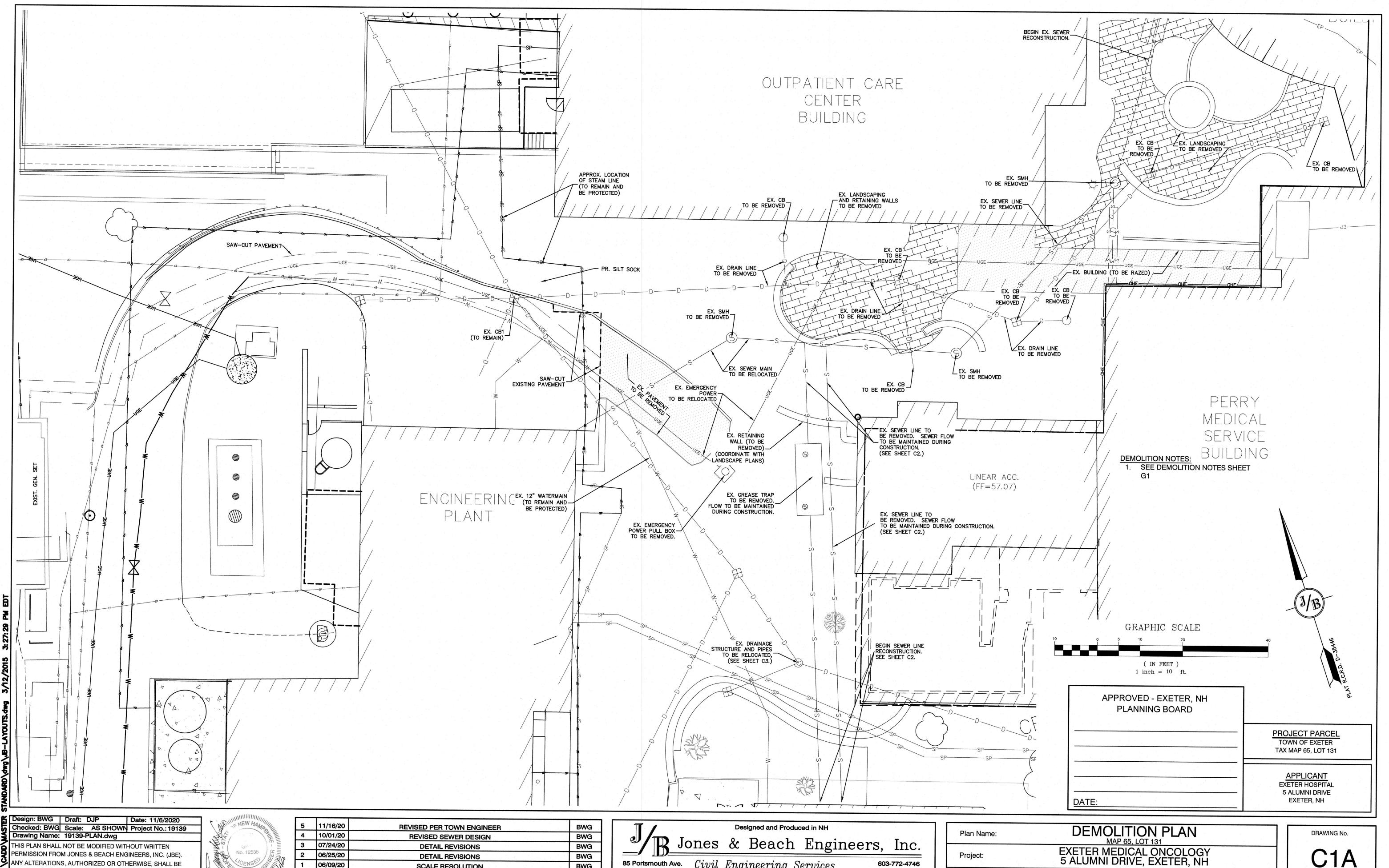
AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

REV. DATE **REVISION** BY

Stratham, NH 03885 E-MAIL: JBE@JONESANDBEACH.COM

EXETER HOSPITAL INC 5 ALUMNI DRIVE SUITE 205, EXETER, NEW HAMPSHIRE

SHEET 2 OF 11 JBE PROJECT NO. 19139



AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

06/09/20 SCALE RESOLUTION BWG DATE **REVISION** BY

85 Portsmouth Ave. Civil Engineering Services
PO Box 219
Stratham, NH 03885

E-MAIL: JBE@ 603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	DEMOLITION PLAN MAP 65, LOT 131
Project:	EXETER MEDICAL ONCOLOGY 5 ALUMNI DRIVE, EXETER, NH
Owner of Record:	EXETER HOSPITAL 5 ALUMNI DRIVE, EXETER, NH

C<sub>1</sub>A SHEET 3 OF 27 JBE PROJECT NO. **19139** 

#### SITE NOTES:

THE INTENT OF THIS PLAN IS TO DEPICT THE CONSTRUCTION OF A 6,417 SQ.FT. (FOOTPRINT) CANCER CENTER AT THE EXISTING EXETER HOSPITAL CAMPUS.

PROPOSED

2. ZONING: H - HEALTH CARE EXISTING MIN. LOT SIZE = 2 ACRES MIN. LOT WIDTH = 200'MIN. LOT DEPTH = 200'MAX. BLDG HEIGHT = 86 MIN. SETBACKS: FRONT = 75'ONE = 30'BOTH = 60'REAR = 50'PERIMETER SETBACK (RESIDENTIAL) = 50' PERIMETER SETBACK (NON-RESIDENTIAL) = 30' PARKING SETBACK (RESIDENTIAL) = 50' LANDSCAPE BUFFER (RESIDENTIAL) = 50' MAX. BLDG COVERAGE = 40%

3. RESTORE ANY DISTURBED ROADWAYS, DRIVES, PARKING AREAS AND LAWN AREAS TO AS GOOD OR BETTER THAN EXISTING CONDITIONS.

4. THIS SITE IS NOT WITHIN THE 100 YEAR FLOOD ELEVATION PER COMMUNITY PANEL NO. 33015CO406E, EFFECTIVE DATE MAY 17, 2005.

5. WITH APPROVAL OF THIS PLAN BY THE EXETER PLANNING BOARD, THE FOLLOWING WAIVERS ARE GRANTED FROM THE "SITE PLAN REVIEW AND SUBDIVISION REGULATIONS": A) SECTION 7.4.10, 7.5.4 & 7.7.5 HIGH INTENSITY SOIL SURVEY.

CONTRACTOR TO COORDINATE AND COMPLETE ALL WORK REQUIRED FOR THE RELOCATION OR INSTALLATION OF ELECTRIC LINES PER UTILITY DESIGN AND STANDARDS OF UNITIL SERVICE CORPORATION. CONTACT: TIM NOONIS 603-773-6533.

7. PARKING REQUIREMENTS: SEE CAMPUS-WIDE "PARKING SPACE ZONING ANALYSIS" LETTER ON FILE WITH PLANNING BOARD, AS LAST TOTAL 1,286 SPACES REQUIRED TOTAL 1,495 SPACES PROVIDED

8. ALL WATER, SEWER, ROAD (INCLUDING PARKING LOT) AND DRAINAGE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 9.5 GRADING, DRAINAGE, AND EROSION & SEDIMENT CONTROL AND THE TANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC UTILITIES IN EXETER, NEW HAMPSHIRE SEE

9. ALL BUILDING DIMENSIONS SHALL BE VERIFIED WITH THE ARCHITECTURAL AND STRUCTURAL PLANS PROVIDED BY THE OWNER. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND OWNER PRIOR TO THE START OF CONSTRUCTION. BUILDING DIMENSIONS AND AREAS TO BE TO OUTSIDE OF MASONRY, UNLESS OTHERWISE NOTED.

10. CONTRACTOR TO PERFORM TEST PIT TO LOCATE EXISTING 12" WATER MAIN PRIOR TO START OF CONSTRUCTION.

11. SEE STAGING PLANS, SHEET C1A

MIN. OPEN SPACE = 35%

B) SECTION 12.1 PERFORMANCE GUARANTEE.

#### **UTILITY NOTES:**

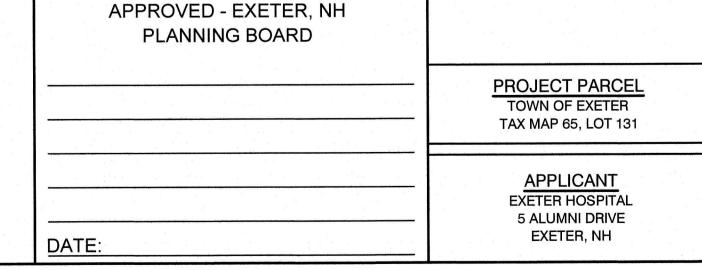
- 1. THE CONTRACTOR SHALL PROVIDE A MINIMUM NOTICE OF FOURTEEN (14) DAYS TO ALL CORPORATIONS, COMPANIES AND/OR LOCAL AUTHORITIES OWNING OR HAVING A JURISDICTION OVER UTILITIES RUNNING TO, THROUGH OR ACROSS PROJECT AREAS PRIOR TO DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
- 2. THE LOCATION, SIZE, DEPTH AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE TO THE STANDARDS AND REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY (ELECTRIC, TELEPHONE, CABLE TELEVISION, FIRE ALARM, GAS, WATER, AND SEWER).
- 3. A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE OWNER, ENGINEER, ARCHITECT, CONTRACTOR, LOCAL OFFICIALS, AND ALL PROJECT-RELATED UTILITY COMPANIES (PUBLIC AND PRIVATE) PRIOR TO
- 4. ALL CONSTRUCTION SHALL CONFORM TO THE TOWN STANDARDS AND REGULATIONS, AND NHDES STANDARDS AND SPECIFICATIONS, WHICHEVER ARE MORE STRINGENT, UNLESS OTHERWISE SPECIFIED.
- 5. ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RULES AND REGULATIONS.
- 6. THE CONTRACTOR IS TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITY STUBS PRIOR TO CONSTRUCTION AND DISCONNECT ALL EXISTING SERVICE CONNECTIONS AT THEIR RESPECTIVE MAINS IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS. ENGINEER TO
- 7. AS-BUILT PLANS SHALL BE SUBMITTED TO DEPARTMENT OF PUBLIC WORKS.
- INVERTS AND SHELVES: MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW AT CHANGES IN DIRECTION. THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE THROUGH CHANNEL UNDERLAYMENT OF INVERT, AND SHELF SHALL CONSIST OF BRICK MASONRY.
- 9. FRAMES AND COVERS: MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30 INCH DIA, CLEAR OPENING. THE WORD "SEWER" OR DRAIN" SHALL BE CAST INTO THE CENTER OF THE UPPER FACE OF EACH COVER WITH RAISED, 3" LETTERS.
- 10. SHALLOW MANHOLE: IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED HAVING AN ECCENTRIC ENTRANCE OPENING AND
- 11. CONTRACTOR SHALL PLACE 2" WIDE METAL WIRE IMPREGNATED RED PLASTIC WARNING TAPE OVER ENTIRE LENGTH OF ALL GRAVITY SEWERS, SERVICES, AND FORCE MAINS.
- 12. ALL SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS.
- 13. PROPOSED RIM ELEVATIONS OF DRAINAGE AND SANITARY MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES AND OTHER UTILITIES TO FINISH GRADE AS SHOWN ON THE GRADING AND DRAINAGE PLAN.
- 14. DIMENSIONS ARE SHOWN TO CENTERLINE OF PIPE OR FITTING.
- 15. CONTRACTOR TO FURNISH SHOP DRAWINGS FOR UTILITY RELATED ITEMS TO ENSURE CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS SHOULD BE SENT IN TRIPLICATE TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- 16. EXISTING UTILITIES SHALL BE DIGSAFED BEFORE CONSTRUCTION.
- 17. ALL GRAVITY SEWER PIPE, AND MANHOLES SHALL BE TESTED ACCORDING TO NHDES STANDARDS OF DESIGN AND CONSTRUCTION FOR SEWAGE AND WASTEWATER TREATMENT FACILITIES, CHAPTER ENV-WQ
- 18. ENV-WQ 704.06 GRAVITY SEWER PIPE TESTING: GRAVITY SEWERS SHALL BE TESTED FOR WATER TIGHTNESS BY USE OF LOW-PRESSURE AIR TESTS CONFORMING WITH ASTM F1417-92(2005) OR UNI-BELL PVC PIPE ASSOCIATION UNI-B-6. LINES SHALL BE CLEANED AND VISUALLY INSPECTED AND TRUE TO LINE AND GRADE, DEFLECTION TESTS SHALL TAKE PLACE AFTER 30 DAYS FOLLOWING INSTALLATION AND THE MAXIMUM ALLOWABLE DEFLECTION OF FLEXIBLE SEWER PIPE SHALL BE 5% OF AVERAGE INSIDE DIAMETER. A RIGID BALL OR MANDREL WITH A DIAMETER OF AT LEAST 95% OF THE AVERAGE INSIDE PIPE DIAMETER SHALL BE USED FOR TESTING PIPE DEFLECTION. THE DEFLECTION TEST SHALL BE CONDUCTED WITHOUT MECHANICAL PULLING DEVICES.
- 19. ENV-WQ 704.17 SEWER MANHOLE TESTING: SHALL BE TESTED FOR LEAKAGE USING A VACUUM TEST PRIOR TO BACKFILLING AND PLACEMENT OF SHELVES AND INVERTS.
- 20. SANITARY SEWER LINES SHALL BE LOCATED AT LEAST TEN (10) FEET HORIZONTALLY FROM AN EXISTING OR PROPOSED WATER LINE. WHEN A SEWER LINE CROSSES UNDER A WATER LINE, THE SEWER PIPE JOINTS SHALL BE LOCATED AT LEAST 6 FEET HORIZONTALLY FROM THE WATERMAIN. THE SEWER LINE SHALL ALSO MAINTAIN A VERTICAL SEPARATION OF NOT LESS THAN 18 INCHES.
- 21. SEWERS SHALL BE BURIED TO A MINIMUM DEPTH OF 6 FEET BELOW GRADE IN ALL ROADWAY LOCATIONS. AND TO A MINIMUM DEPTH OF 4 FEET BELOW GRADE IN ALL CROSS-COUNTRY LOCATIONS. PROVIDE TWO-INCHES OF R-10 FOAM BOARD INSULATION 2-FOOT WIDE TO BE INSTALLED 6-INCHES OVER SEWER PIPE IN AREAS WHERE DEPTH IS NOT ACHIEVED. A WAIVER FROM THE DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER ENGINEERING BUREAU IS REQUIRED PRIOR TO INSTALLING SEWER AT LESS THAN
- 22. THE CONTRACTOR SHALL MINIMIZE THE DISRUPTIONS TO THE EXISTING SEWER FLOW. CONTRACTOR TO COORDINATE ANY DISRUPTIONS IN FLOW WITH THE EXETER HOSPITAL FACILITIES GROUP.
- 23. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
- 24. ALL SEWER COMPONENTS DEPICTED ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE SITE CONTRACTOR. SITE CONTRACTOR TO COORDINATE SEWER AND VENT CONNECTIONS AT EXISTING BUILDINGS AND ELECTRICAL REQUIREMENTS WITH PROJECT PLUMBER AND ELECTRICIAN.
- 25. SEE STAGING PLANS, SHEET C1A

#### **DEMOLITION NOTES:**

- THIS PLAN IS INTENDED TO PROVIDE MINIMUM GUIDELINES FOR SITE DEMOLITION. IT SHOULD BE NOTED THAT ALL MANMADE FEATURES, PAVEMENT, SIGNS, POLES, CURBING, CONCRETE WALKS, UTILITIES, ETC., SHALL BE REMOVED AS NECESSARY TO CONSTRUCT WORK, UNLESS OTHERWISE NOTED TO REMAIN. THROUGHOUT THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY FIELD DISCREPANCIES FROM DATA AS SHOWN ON DESIGN PLANS. THIS INCLUDES ANY UNFORESEEN CONDITIONS, SUBSURFACE OR OTHERWISE FOR EVALUATION AND RECOMMENDATIONS. ANY CONTRADICTION BETWEEN ITEMS OF THIS PLAN/PLAN SET, OR BETWEEN THE PLANS AND ON-SITE CONDITIONS MUST BE RESOLVED BEFORE RELATED CONSTRUCTION HAS BEEN INITIATED.
- 2. ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION AREA, UNLESS OTHERWISE NOTED TO REMAIN, SHALL BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES. NO BURNING ON-SITE SHALL BE ALLOWED.
- 3. ALL EXISTING GRANITE CURBING TO BE REMOVED SHALL BE STOCKPILED IN AN AREA TO BE DESIGNATED BY THE OWNER OR OWNER'S REPRESENTATIVE. THE OWNER SHALL INSPECT GRANITE CURBING TO BE RESET AND APPROVE LOCATION OF RESET CURBING. THE CONTRACTOR SHALL NOT INSTALL USED CURBING AT ANY ENTRANCE LOCATIONS.
- ALL EXISTING UTILITIES SHALL BE TERMINATED AS SHOWN, UNLESS OTHERWISE NOTED ON THE PLANS, IN CONFORMANCE WITH LOCAL, STATE AND UTILITY COMPANY STANDARDS, SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES PRIOR TO THE START OF WORK.
- 5. SEE LANDSCAPE PLAN FOR "TREES TO BE SAVED" AND DETAILS ASSOCIATED WITH LANDSCAPED AREAS.
- 6. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND ANY EARTH MOVING OPERATIONS. SILT FENCE SHALL BE INSTALLED AT THE LIMITS OF IMPACT AREAS ACCORDING TO THE DETAILS SHOWN ON SHEET E1.
- EXCAVATED MATERIALS WILL BE PLACED WITHIN UPLAND AREAS AS FILL MATERIAL OR HAULED OFF-SITE FOR DISPOSAL IN AN APPROPRIATE UPLAND LOCATION.
- UNSUITABLE SOILS AND DEMOLITION DEBRIS MUST BE REMOVED FROM THE SITE AND DISPOSED OF IN A
- 9. CONTRACTOR SHALL LOCATE AND MARK EXISTING WATER LINES AND UNDERGROUND ELECTRIC/TELECOM WITH STAKES. STAKES SHALL REMAIN UNTIL ALL EXCAVATION WORK IS COMPLETE.
- 10. UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. NEITHER JONES & BEACH ENGINEERS. INC., NOR ANY OF THEIR EMPLOYEES TAKE RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES OR UTILITIES NOT SHOWN THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION WORK BY CALLING 1-888-DIG-SAFE (1-888-344-7233).
- 11. SEE STAGING PLANS, SHEET C1A.

#### **GRADING AND DRAINAGE NOTES:**

- 1. UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. NEITHER JONES & BEACH ENGINEERS, INC., NOR ANY OF THEIR EMPLOYEES TAKE RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES AND/OR UTILITIES NOT SHOWN THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION WORK BY CALLING 888-DIG-SAFE (888-344-7233).
- 2. VERTICAL DATUM: NGVD29 HORIZONTAL DATUM: STATE PLANE COORDINATES.
- 3. ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
- 4. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED, SEE CONSTRUCTION SEQUENCE ON SHEET E1.
- 5. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO HAVE THE PROJECT'S LAND SURVEYOR STAKE OR FLAG CLEARING LIMITS. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED.
- ALL ROOF DRAINS FROM BUILDING SHALL END 5' OUTSIDE THE BUILDING LIMITS AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AND WITNESS AT THE END. ALL EXTERIOR ROOF DOWNSPOUTS ARE TO BE INSTALLED WITH OVERFLOW DEVICES.
- PROPOSED RIM ELEVATIONS OF DRAINAGE STRUCTURES ARE APPROXIMATE, FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES.
- 8. ALL SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH NORTH AMERICAN GREEN S75 EROSION CONTROL BLANKETS (OR AN EQUIVALENT APPROVED IN WRITING BY THE ENGINEER), UNLESS OTHERWISE
- 9. ALL DRAINAGE AND SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS. CATCH BASINS SHALL HAVE 3' DEEP SUMPS WITH GREASE HOODS, UNLESS OTHERWISE NOTED.
- 10. ALL DRAINAGE STRUCTURES SHALL BE PRECAST, UNLESS OTHERWISE SPECIFIED. SEE SHEET D2 AND D3
- 11. ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC H20 LOADING AND SHALL BE INSTALLED ACCORDINGLY.
- 12. IMMEDIATELY APPLY AND COMPACT STONE BASE FOR BUILDING PAD TO +/-1/2" PRIOR TO EXCAVATING INTERIOR AND PERIMETER FOOTINGS.
- 13. ALL DRAINAGE PIPE SHALL BE NON-PERFORATED ADS N-12 OR APPROVED EQUAL.
- 14. STONE INLET PROTECTION SHALL BE PLACED AT ALL CATCH BASINS. SEE DETAIL WITHIN THE DETAIL
- 15. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY ALL GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE EPA SWPPP DURING CONSTRUCTION OPERATIONS.
- 16. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN
- 17. ALL EXPOSED AREAS SHALL BE SEEDED AS SPECIFIED WITHIN 3 DAYS OF FINAL GRADING.
- 18. SHOULD CONSTRUCTION STOP FOR LONGER THAN 3 DAYS, THE SITE SHALL BE SEEDED AS SPECIFIED.
- 19. MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN EVENT OF 0.5" OR GREATER IN A 24 HOUR PERIOD AND AT LEAST ONCE A WEEK.
- 20. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE, AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- 21. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
- 22. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
- 23. SEDIMENT SHALL BE REMOVED FROM ALL SEDIMENT BASINS BEFORE THEY ARE 25% FULL.
- 24. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH PROJECT SPECIFICATIONS.
- 25. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED, IF DEEMED NECESSARY BY ON-SITE INSPECTION BY ENGINEER AND/OR REGULATORY OFFICIALS.
- 26. SEE ALSO EROSION AND SEDIMENT CONTROL SPECIFICATIONS ON SHEET E1.
- 27. THE LANDOWNER IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL WETLANDS REGULATIONS, INCLUDING ANY PERMITTING AND SETBACK REQUIREMENTS REQUIRED UNDER THESE REGULATIONS.
- 28. ALL WATER, SEWER, ROAD (INCLUDING PARKING LOT) AND DRAINAGE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 9.5 GRADING, DRAINAGE, AND EROSION & SEDIMENT CONTROL AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC UTILITIES IN EXETER, NEW HAMPSHIRE.
- 29. ALL RETAINING WALLS SHALL BE DESIGNED AND STAMPED BY AN ENGINEER LICENSED IN THE STATE OF
- 30. CONTRACTOR TO COMPLETE A TEST PIT IN THE LOCATION OF PROPOSED STORM SYSTEM #1 PRIOR TO START OF CONSTRUCTION. TEST PIT TO BE COORDINATED AND WITNESSED WITH ENGINEER OF RECORD.
- 31. SEE STAGING PLANS, SHEET C1A.



GENERAL NOTES MAP 65, LOT 131

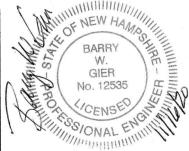
DRAWING No.

SHEET 4 OF 27

JBE PROJECT NO. 19139

Plan Name: EXETER MEDICAL ONCOLOGY Project: 5 ALUMNI DRIVE, EXETER, NH EXETER HOSPITAL Owner of Record: 5 ALUMNI DRIVE, EXETER, NH

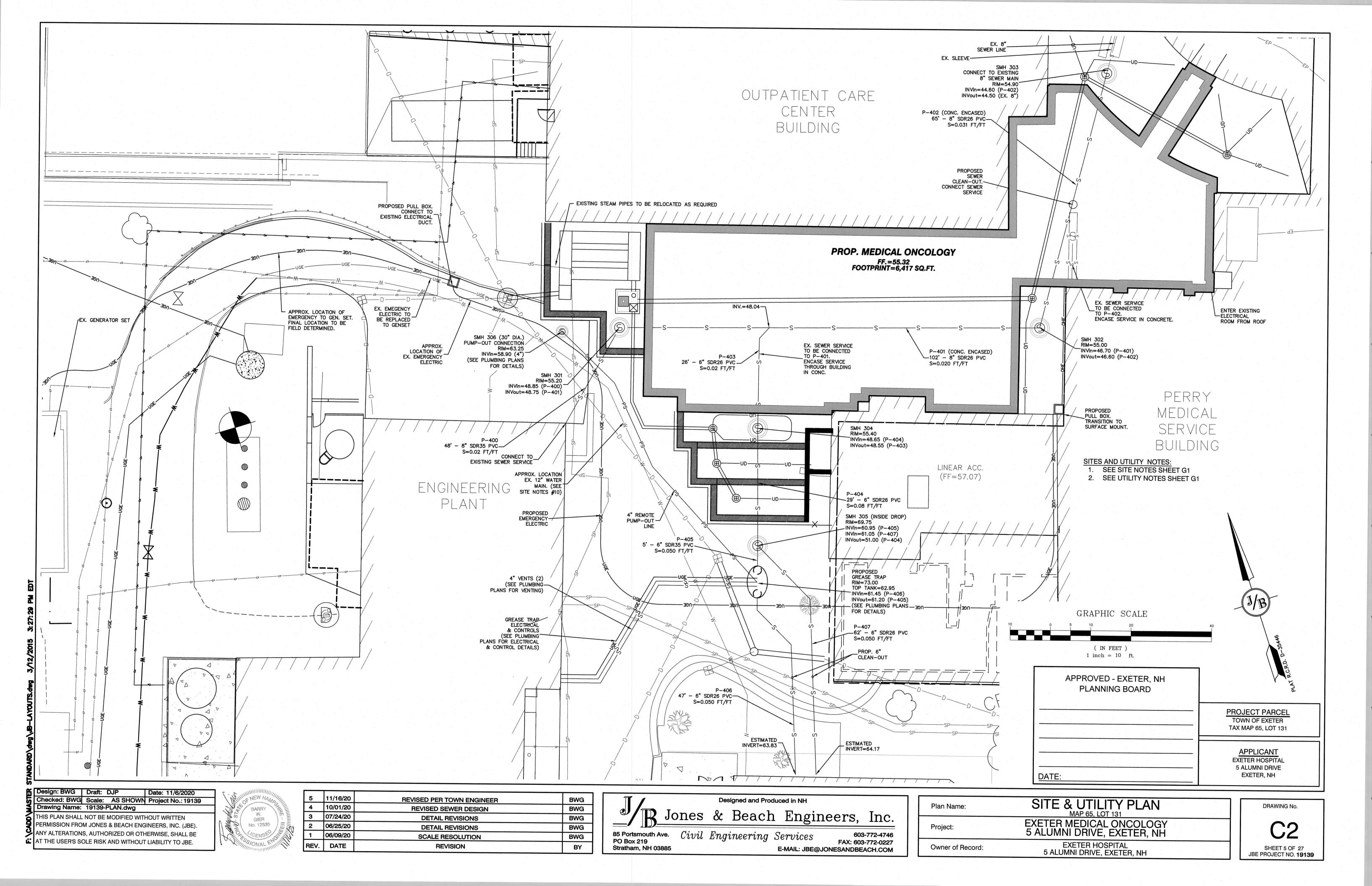
Design: BWG | Draft: DJP Date: 11/6/2020 Checked: BWG Scale: AS SHOWN Project No.: 19139 Drawing Name: 19139-PLAN.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

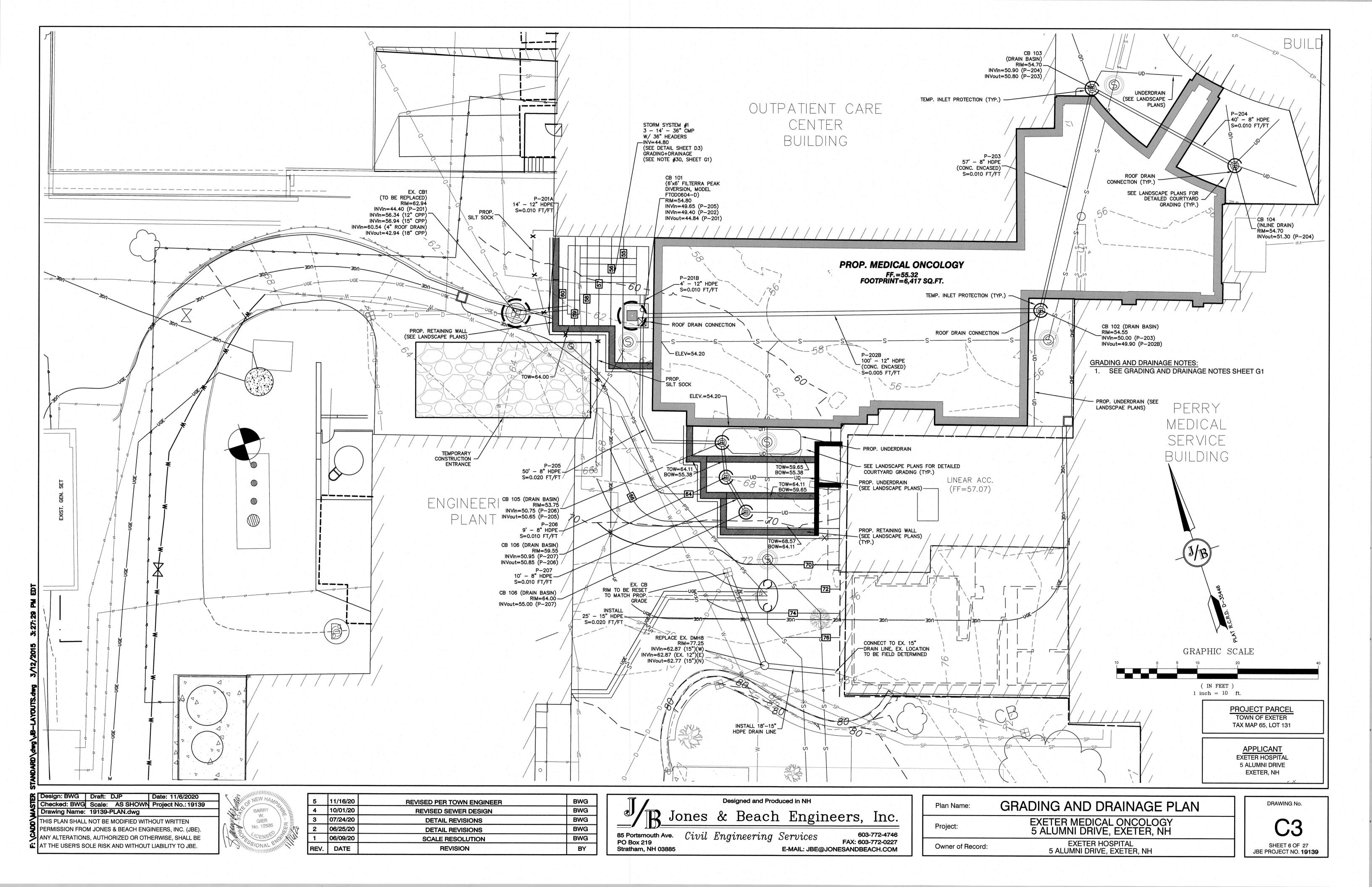


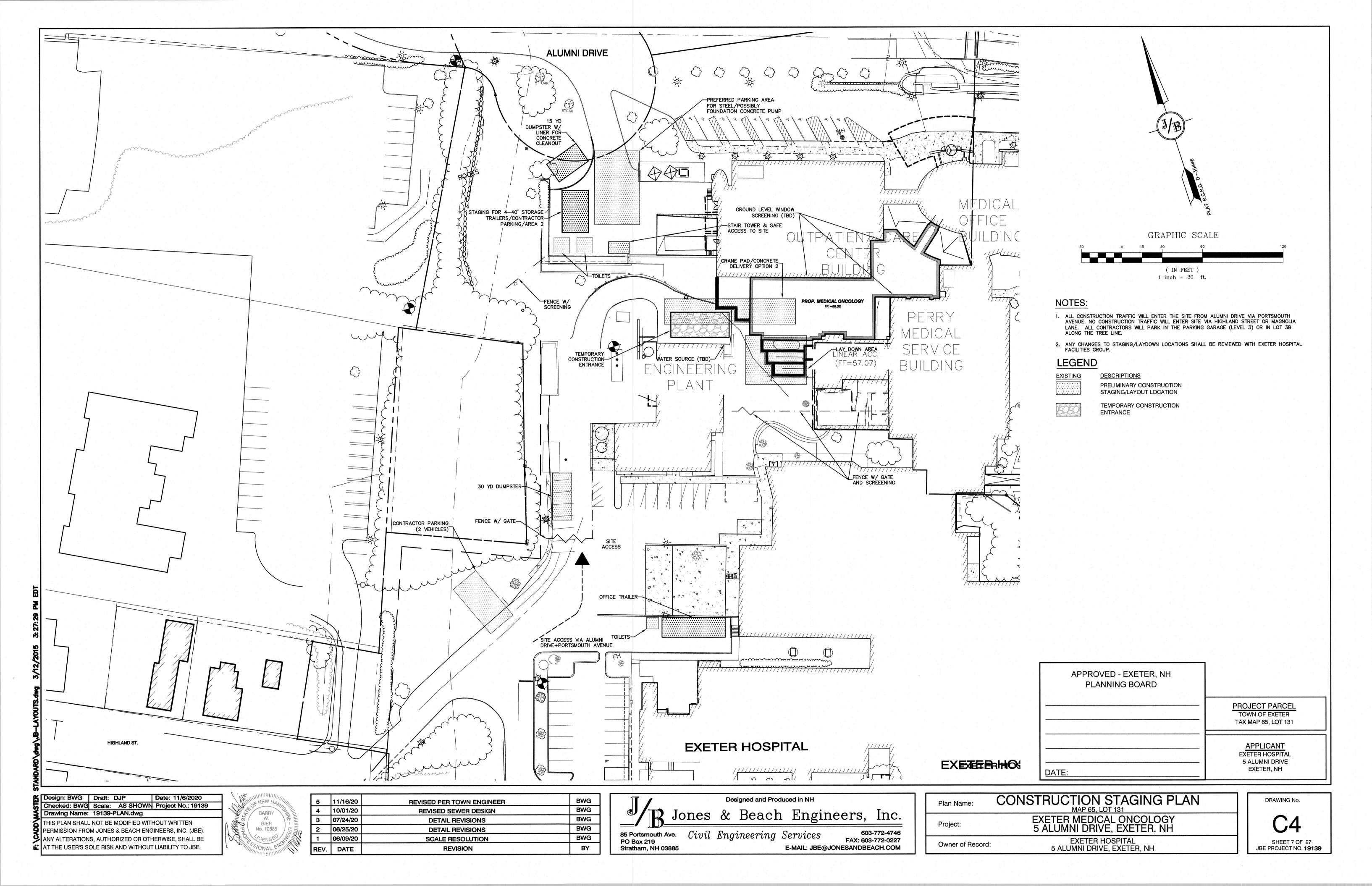
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REV.	DATE	REVISION	BY

Jones & Beach Engineers, Inc.

Designed and Produced in NH

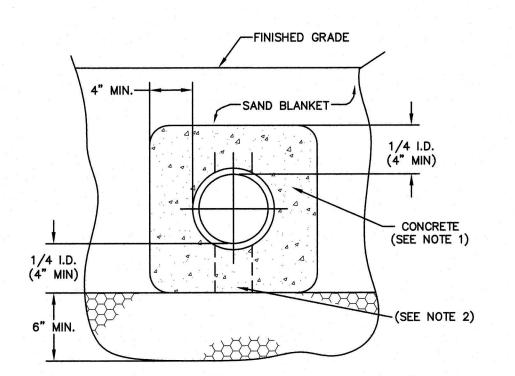






# **UTILITY NOTES**

- THE CONTRACTOR SHALL PROVIDE A MINIMUM NOTICE OF FOURTEEN (14) DAYS TO ALL CORPORATIONS, COMPANIES AND/OR LOCAL AUTHORITIES OWNING OR HAVING A JURISDICTION OVER UTILITIES RUNNING TO, THROUGH OR ACROSS PROJECT AREAS PRIOR TO DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
- 2. THE LOCATION, SIZE, DEPTH AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE TO THE STANDARDS AND REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY (ELECTRIC, TELEPHONE, CABLE TELEVISION, FIRE ALARM,
- 3. A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE OWNER, ENGINEER, ARCHITECT, CONTRACTOR, LOCAL OFFICIALS, AND ALL PROJECT-RELATED UTILITY COMPANIES (PUBLIC AND PRIVATE) PRIOR TO START OF CONSTRUCTION.
- 4. ALL CONSTRUCTION SHALL CONFORM TO THE TOWN STANDARDS AND REGULATIONS, AND NHDES STANDARDS AND SPECIFICATIONS, WHICHEVER ARE MORE STRINGENT, UNLESS OTHERWISE SPECIFIED.
- 5. ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RULES AND REGULATIONS.
- 6. THE CONTRACTOR IS TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITY STUBS PRIOR TO CONSTRUCTION AND DISCONNECT ALL EXISTING SERVICE CONNECTIONS AT THEIR RESPECTIVE MAINS IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS. ENGINEER TO BE NOTIFIED.
- 7. AS-BUILT PLANS SHALL BE SUBMITTED TO DEPARTMENT OF PUBLIC WORKS.
- 8. INVERTS AND SHELVES: MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW AT CHANGES IN DIRECTION. THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE THROUGH CHANNEL UNDERLAYMENT OF INVERT, AND SHELF SHALL CONSIST OF BRICK MASONRY.
- 9. FRAMES AND COVERS: MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30 INCH DIA, CLEAR OPENING. THE WORD "SEWER" OR DRAIN" SHALL BE CAST INTO THE CENTER OF THE UPPER FACE OF EACH COVER WITH RAISED,
- 10. SHALLOW MANHOLE: IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED HAVING AN ECCENTRIC ENTRANCE OPENING AND CAPABLE OF SUPPORTING H20 LOADS.
- 11. CONTRACTOR SHALL PLACE 2" WIDE METAL WIRE IMPREGNATED RED PLASTIC WARNING TAPE OVER ENTIRE LENGTH OF ALL GRAVITY SEWERS, SERVICES, AND FORCE MAINS.
- 12. ALL SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS.
- 13. PROPOSED RIM ELEVATIONS OF DRAINAGE AND SANITARY MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES AND OTHER UTILITIES TO FINISH GRADE AS SHOWN ON THE GRADING AND DRAINAGE PLAN.
- 14. DIMENSIONS ARE SHOWN TO CENTERLINE OF PIPE OR FITTING.
- 15. CONTRACTOR TO FURNISH SHOP DRAWINGS FOR UTILITY RELATED ITEMS TO ENSURE CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS SHOULD BE SENT IN TRIPLICATE TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR
- 16. EXISTING UTILITIES SHALL BE DIGSAFED BEFORE CONSTRUCTION.
- 17. ALL GRAVITY SEWER PIPE, AND MANHOLES SHALL BE TESTED ACCORDING TO NHDES STANDARDS OF DESIGN AND CONSTRUCTION FOR SEWAGE AND WASTEWATER TREATMENT FACILITIES, CHAPTER ENV-WQ 700. ADOPTED ON 10-15-14.
- 18. ENV-WQ 704.06 GRAVITY SEWER PIPE TESTING: GRAVITY SEWERS SHALL BE TESTED FOR WATER TIGHTNESS BY USE OF LOW-PRESSURE AIR TESTS CONFORMING WITH ASTM F1417-92(2005) OR UNI-BELL PVC PIPE ASSOCIATION UNI-B-6. LINES SHALL BE CLEANED AND VISUALLY INSPECTED AND TRUE TO LINE AND GRÁDE. DEFLECTION TESTS SHALL TAKE PLACE AFTER 30 DAYS FOLLOWING INSTALLATION AND THE MAXIMUM ALLOWABLE DEFLECTION OF FLEXIBLE SEWER PIPE SHALL BE 5% OF AVERAGE INSIDE DIAMETER. A RIGID BALL OR MANDREL WITH A DIAMETER OF AT LEAST 95% OF THE AVERAGE INSIDE PIPE DIAMETER SHALL BE USED FOR TESTING PIPE DEFLECTION. THE DEFLECTION TEST SHALL BE CONDUCTED WITHOUT MECHANICAL PULLING DEVICES.
- 19. <u>ENV-WQ 704.17 SEWER MANHOLE TESTING:</u> SHALL BE TESTED FOR LEAKAGE USING A VACUUM TEST PRIOR TO BACKFILLING AND PLACEMENT OF SHELVES AND INVERTS.
- 20. SANITARY SEWER LINES SHALL BE LOCATED AT LEAST TEN (10) FEET HORIZONTALLY FROM AN EXISTING OR PROPOSED WATER LINE. WHEN A SEWER LINE CROSSES UNDER A WATER LINE, THE SEWER PIPE JOINTS SHALL BE LOCATED AT LEAST 6 FEET HORIZONTALLY FROM THE WATERMAIN. THE SEWER LINE SHALL ALSO MAINTAIN A VERTICAL SEPARATION OF NOT LESS THAN 18
- 21. SEWERS SHALL BE BURIED TO A MINIMUM DEPTH OF 6 FEET BELOW GRADE IN ALL ROADWAY LOCATIONS, AND TO A MINIMUM DEPTH OF 4 FEET BELOW GRADE IN ALL CROSS-COUNTRY LOCATIONS. PROVIDE TWO-INCHES OF R-10 FOAM BOARD INSULATION 2-FOOT WIDE TO BE INSTALLED 6-INCHES OVER SEWER PIPE IN AREAS WHERE DEPTH IS NOT ACHIEVED. A WAIVER FROM THE DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER ENGINEERING BUREAU IS REQUIRED PRIOR TO INSTALLING SEWER AT LESS
- 22. THE CONTRACTOR SHALL MINIMIZE THE DISRUPTIONS TO THE EXISTING SEWER FLOW. CONTRACTOR TO COORDINATE ANY DISRUPTIONS IN FLOW WITH THE EXETER HOSPITAL FACILITIES GROUP.
- 23. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.



# SECTION A-A

- <u>NOTES:</u> I. CONCRETE FOR ENCASEMENT SHALL CONFORM TO THE REQUIREMENTS FOR CLASS A(3000#) CONCRETE OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD
- SPECIFICATIONS AS FOLLOWS: 1.1. CEMENT: 6 BAGS / CUBIC YARD
- 1.2. WATER: 5.75 GALLONS / BAG OF CEMENT 1.3. AGGREGATE 1.0 INCH / MAXIMUM SIZE
- 2. IF PARTIAL ENCASEMENT (TYPE III) OR FULL ENCASEMENT (TYPE IV) IS UTILIZED, DEPTH OF CONCRETE BELOW PIPE SHALL BE 1 I.D. (4" MIN.). BLOCK SUPPORT SHALL BE SOLID CONCRETE

CONCRETE FULL ENCASEMENT (TYPE IV)

NOT TO SCALE



#### 5 11/16/20 **REVISED PER TOWN ENGINEER** 10/01/20 **REVISED SEWER DESIGN** 07/24/20 **DETAIL REVISIONS** 06/25/20 **DETAIL REVISIONS** 06/09/20 **SCALE RESOLUTION** DATE **REVISION**

∠ SEWER

NOT TO SCALE

#### **BWG BWG BWG BWG BWG** PO Box 219 BY Stratham, NH 03885

Designed and Produced in NH

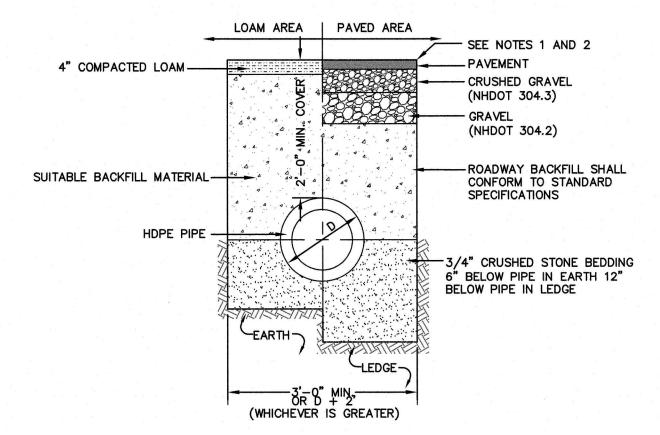
IN ACCORDANCE WITH ENV-WQ 704.13 (a) (8).

COATING IN ACCORDANCE WITH ENV-WQ 704.12 (J).

7. BRICK MASONRY SHALL CONFORM TO ASTM C32 (ENV-WQ 704.12(a)(9))

85 Portsmouth Ave. Civil Engineering Services 603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

**DETAIL SHEET** Plan Name: **EXETER MEDICAL ONCOLOGY** Project: 5 ALUMNI DRIVE, EXETER, NH EXETER HOSPITAL Owner of Record:

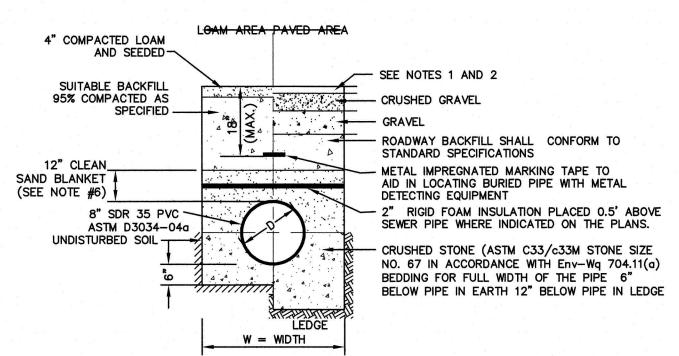


#### NOTES:

- 1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
- 2. NEW ROADWAY CONSTRUCTION SHALL CONFORM WITH PROJECT AND TOWN SPECIFICATIONS.
- 3. ALL MATERIALS ARE TO BE COMPACTED TO 95%%% OF ASTM D-1557.

# DRAINAGE TRENCH

NOT TO SCALE



1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO PAVEMENT DETAILS.

- 2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPECIFICATIONS.
- 3. TRENCH BACKFILL SHALL CONFORM WITH ENV. Wq 704.11(h) AND BE FREE OF DEBRIS, PAVEMENT, ORGANIC MATTER, TOP SOIL, WET OR SOFT MUCK, PEAT OR CLAY, EXCAVATED LEDGE OR ROCKS OVER SIX INCHES.
- 4. W= MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12" INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, WIDTH SHALL BE NO MORE THAN 36"; FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, WIDTH SHALL BE 24 INCHES PLUS PIPE O.D. WIDTH SHALL ALSO BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE.
- 5. RIGID FOAM INSULATION TO BE PROVIDED WHERE COVER IN THE ROADWAY IS LESS THAN 6' AND CROSS COUNTRY IS LESS THAN 4', PURSUANT TO DES WAIVER BEING ISSUED.
- 6. PIPE SAND BLANKET MATERIAL SHALL BE GRADED SAND, FREE FROM ORGANIC MATERIALS, GRADED SUCH THAT 100% PASSES A 1/2 " SIEVE AND A MAXIMUM OF 15% PASSES A #200 SIEVE IN ACCORDANCE WITH Env-Wq 704.11(b).
- 7. JOINT SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL AND CERTIFIED BY THE MANUFACTURER AS CONFORMING TO THE ASTM D3212 STANDARD IN EFFECT WHEN THE JOINT SEALS WERE MANUFACTURED, AND SHALL BE PUSH-ON, BELL-AND-SPIGOT TYPE PER Env-Wg 704.05 (e).

# SEWER TRENCH

NOT TO SCALE

ALTERNATE TOP SLAB FOR

EXCEED THE REQUIRMENTS OF

AASHTO HS20-44 LOADING

-COVERS SHALL HAVE A MINIMUM OPENING OF 32" AND LABELED

-FULL MORTAR BED

(PORTLAND TYPE II CEMENT)

ADJUST TO GRADE WITH HARD BRICK

GRADE SS (MIN. 2 COURSES, MAX. 5

COURSES OR 12" MAX. ADJUSTMENT)

-PRECAST CONCRETE UNITS SHALL

5" MIN. REINFORCED

CLASS "AA" CONCRETE 4000 P.S.I.

- WATERTIGHT JOINT (TONGUE & GROOVE W/ A DOUBLE RING OF MASTIC

(FLASTOMERIC SEALING RING

CAST IN THE MANHOLE OR

OPTIONS)

EQUIL. ENV-WQ 704.12 (q)

CONFORM TO ASTM C-478

SEALANT)

FIRST JOINT

"SEWER" IN 3" LETTERS

NO MANHOLE STEPS

UNLESS SPECIFIED BY

THE LOCAL AUTHORITY

48" DIAMETER MIN.—

5 IN/FT. TYP. 3" MAX.--

HARD BRICK WITH

- 6" MIN. BEDDING IN EARTH 12"

MIN. BEDDING IN LEDGE (ASTM

b. PROPORTIONS IN MORTAR OF PARTS BY VOLUMES SHALL BE PER TABLE 704-4:

(2) 4.5 PARTS SAND, ONE PART CEMENT AND 0.5 PART HYDRATED LIME;

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS AVAILABLE AT:

C33-03 NO. 67 STONE)

(1) 4.5 PARTS SAND AND 1.5 PARTS CEMENT; OR

STANDARD SPECIFICATIONS FOR CONCRETE, FINE AGGREGATES

FOLLOWING:

SEWER MANHOLE

NOT TO SCALE

HYDRATED LIME ADDITION

PORTLAND TYPE II CEMENT

PER NHDES ENV-WQ 704.13(C), MORTAR USED IN MANHOLE CONSTRUCTION SHALL COMPLY WITH THE

a. MORTAR SHALL BE COMPOSED OF TYPE II PORTLAND CEMENT AND SAND WITH OR WITHOUT

c. CEMENT SHALL BE TYPE II PORTLAND CEMENT THAT IS CERTIFIED BY ITS MANUFACTURER AS

THE ASTM C207 STANDARD IN EFFECT AT THE TIME THE HYDRATED LIME WAS PROCESSED

e. SAND SHALL CONSIST OF INERT NATURAL SAND THAT IS CERTIFIED BY ITS SUPPLIER AS

f. CONCRETE FOR DROP SUPPORTS SHALL CONFORM TO THE REQUIREMENT FOR CLASS AAA

CONCRETE OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S "STANDARD

DRAIN TOWARD THE FLOWING THROUGH CHANNEL IN ACCORDANCE WITH ENV-WQ 704.12 (K).

3. ALL MANHOLES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH ENV-WQ 704.17 (a) THROUGH

4. SEWER MANHOLE COVERS SHALL CONFORM TO ASTM A48/48M WITH A CASTING EQUAL TO CLASS 30

5. ALL PRECAST SECTIONS SHALL BE COATED ON THE EXTERIOR WITH A BITUMINOUS DAMP-PROOFING

ALL PRECAST SECTIONS AND BASES SHALL HAVE THE DATE OF MANUFACTURE AND THE NAME OR

TRADEMARK OF THE MANUFACTURER IMPRESSED OR INDELIBLY MARKED ON THE INSIDE WALL PER

CONFORMING TO THE ASTM C150/C150M STANDARD IN EFFECT AT THE TIME THE CEMENT WAS

d. HYDRATED LIME SHALL BE TYPE S THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO

CONFORMING TO THE ASTM C33 STANDARD IN EFFECT AT THE TIME THE SAND IS PROCESSED BY

HTTP: //WWW.NH.GOV/DOT/ORG/PROJECTDEVELOPMENT/HIGHWAYDESIGN/SPECIFICATIONS/INDEX.HTM

SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPED TO

MANHOLES LESS THAN SIX FEET

DEEP. REINFORCED TO MEET OR

5 ALUMNI DRIVE, EXETER, NH

# DRAWING No. SHEET 8 OF 27 JBE PROJECT NO. 19139

Design: BWG | Draft: DJP

Checked: BWG | Scale: AS NOTED | Project No.: 19139

Drawing Name: 19139-PLAN.dwg HIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



SEWER SERVICE CONNECTION

HEAVY DUTY FRAME AND COVER

FROM CLEANOUT

8" SDR35 PVC PIPE-

1. PLACE CLEANOUT AS SHOWN ON PLAN.

NOT TO SCALE

SEWER LINE CLEANOUT DETAIL

PLAN VIEW

S.S. ANCHOR

REMOVABLE BAND -

SIZE GUIDE

DROP:

MANHOLE WITH INSIDE DROP

(2)-8" OR 10" DROP:

FERNCO 1056-64 (TYP)

W/316 SS CLAMPS 6"x4"

FLEXIBLE COUPLING -

ADAPTER WITH FLEXIBLE

AS NECESSARY

JOINT (SEE NOTE 4)

NOT TO SCALE

U-CUT 3/4 PIPE

PVC BELL (REMOVE TO

CLEAN HORIZ. LINE)

CALDER STYLE COUPLING -

FXISTING

INVERT

- DROP PIPE

15°± RADIUS

5'-0" DIA. M.H

3'-0"

EXCAVATE SHELF

AND CONSTRUCT **NEW INVERT TO** 

MATCH EXISTING

CUT "U" SCALLOP TO

- ELASTOMERIC BOOT

- 90° ELBOW WITH

BELL REMOVED

EXCAVATE SHELF AND

CONSTRUCT NEW INVERT

WITH MORTAR TO MATCH

EXISTING. EXISTING SHELF

WITH HARD BRICK GRADE SS

TO BE RECONSTRUCTED AS

-CLEAN OUT

ACCEPT INCOMING LINE

PVC OR DI PIPE

ADJUSTABLE HEAD-

W/ LETTERS "C.O." CAST IN COVER

GRADE SURFACE AWAY

AIR-TIGHT

-THREADED PVC CLEANOUT PLUG

1" IN GRASSY AREA

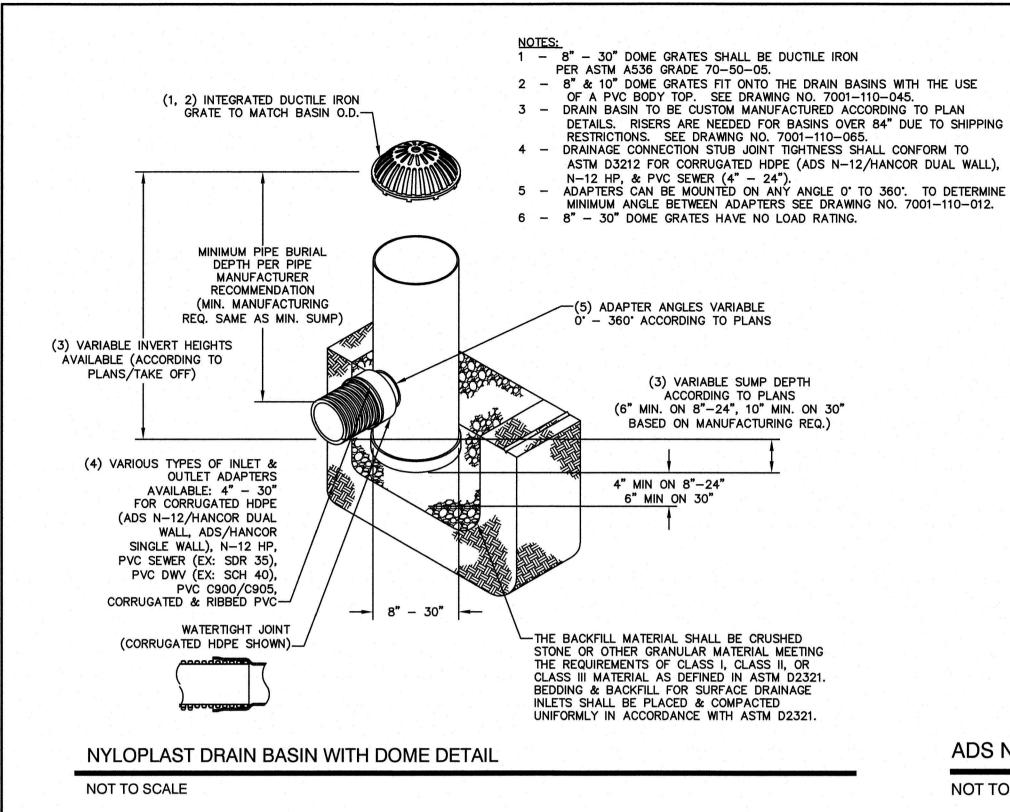
O" IN PAVED AREA

24" SQUARE CONCRETE

└-8" PVC WYE (GASKETED)

TWO-8"-1/16 (22 $\frac{1}{2}$ ) STREET ELS

PAD, 8" THICK



US PAT. # 5746912

ROOF / YARD DRAINS TO BE NYLOPLAST USA, INC., AND SUPPLIED BY ADS, INC., CHRISTIAN SWEDICK, 1-800-733-9554 OR APPROVED CASTINGS ARE TO BE H20 LOADING. . QUALITY: MATERIAL SHALL CONFORM TO ASTM A48-CLASS 30B. 4. PAINT: CASTINGS ARE FURNISHED WITH BLACK PAINT. 4" MIN. LOAM CAST IRON GRATE BACKFILL MATERIAL SHALL BE -12"x8" DRAIN CRUSHED STONE OR GRAVEL OR 8"x6" DRAIN 12" MIN. AROUND PIPE, 4" AT SURFACE 6"-8" ADS N-12 DRAIN PIPE-

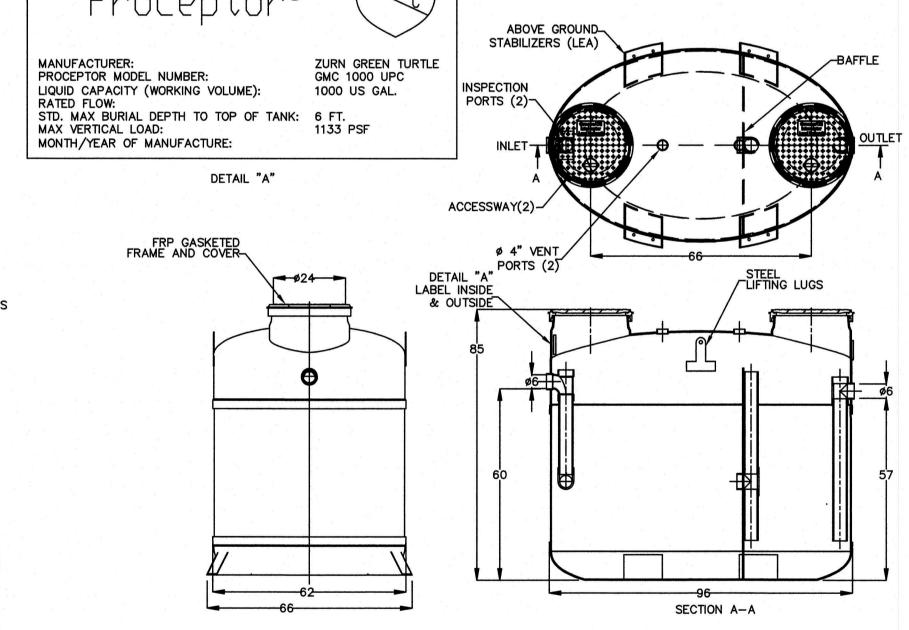
FINISHED GRADE WARNING TAPE #4/0 BARE COPPER GROUND CONDUCTOR THROUGHOUT DUCT. TYPICAL FOR ALL DUCT SECTIONS PLASTIC SPACER PVC CONDUITS SIZE & QUANTITY AS INDICATED ON REINFORCING BARS SHALL BE TIED TO DUCT SPACERS USING NONMETALLIC MATERIALS TYPICAL DUCTBANK REQUIREMENTS DUCT BANK NOTES: 1. REFER TO PLAN FOR QUANTITY AND SIZE OF ALL CONDUIT, DETAIL IS TO

- IDENTIFY TYPICAL INSTALLATION REQUIREMENTS AND SPACING.
- 2. CONCRETE SHALL BE 2000 PSI AT 28 DAYS, OR AS SPECIFIED
- 3. PROVIDE REINFORCING RODS ON TOP AND BOTTOM OF DUCTS.

## TYPICAL DUCTBANK DETAIL

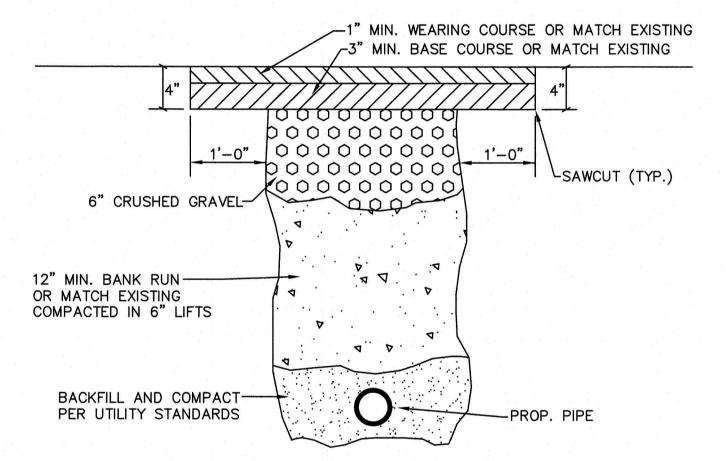
NOT TO SCALE

- FOR GRAVITY APPLICATIONS ONLY.
- 2. ALL PROCEPTOR UNITS ARE MANUFACTURED WITH FIBERGLASS REINFORCED PLASTICS. PHYSICAL CHARACTERISTICS AND THICKNESS: POLYESTER RESIN AND E GLASS MINIMUM THICKNESS 1/4" WALL AND 3/8" TOP AND BOTTOM BOWLS.
- 3. ALL PROCEPTOR UNITS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTION.
- 4. STANDARD PIPING IS SDR26.
- 5. INLET AND OUTLET SHALL BE 6" DIAMETER.
- 6. EXTENSION COLLAR TO BE ORDERED TO MEET FINISHED GRADE, CUT ON SITE FOR FINAL ADJUSTMENT AND CAULKED WITH SIKAFLEX BY CONTRACTOR FOR WATERTIGHT SEAL.
- 7. COVERS AVAILABLE FOR H20 TRAFFIC LOADING, PEDESTRIAN LOADING OR ABOVE GROUND INSTALLATION.
- 8. CONSULT GREEN TURTLE FOR OTHER SIZES.
- 9. 30 YEAR WARRANTY AGAINST LEAKS, AND STRUCTURAL FAILURE.
- 10. U.S. PATENT #5.746.912; CDN PATENT #2.195.822
- 11. CONTRACTOR TO COORDINATE WITH MANUFACTURER FOR BURY DEPTHS GREATER THAN 6 FEET OVER TOP OF TANK.



ADS N-12 YARD DRAIN

NOT TO SCALE



- 1. AFTER PROPER BACKFILLING AND COMPACTION, ADJACENT PAVEMENT MUST BE "SAW CUT" (STRAIGHT CUTS) A MINIMUM OF ONE FOOT (1') AROUND THE PERIMETER OF THE EXCAVATION. PAVEMENT MUST BE REMOVED.
- 2. INSTALL A MINIMUM THREE INCH (3") BASE COURSE OF "TYPE B" ASPHALT LEAVING A ONE INCH (1") REVEAL, OR MATCH EXISTING.
- 3. AFTER FOURTEEN (14) DAYS, AND BEFORE THIRTY (30), INSTALL WEARING COURSE.
- 4. APPLY EMULSION SEALANT AND PERIMETER OF JOINT OVERLAPPING BASE COURSE. INSTALL ONE INCH (1") WEARING COURSE OF "TYPE F" ASPHALT TO GRADE. APPLY LIGHT SAND TO ABSORB EXCESS JOINT SEALANT.

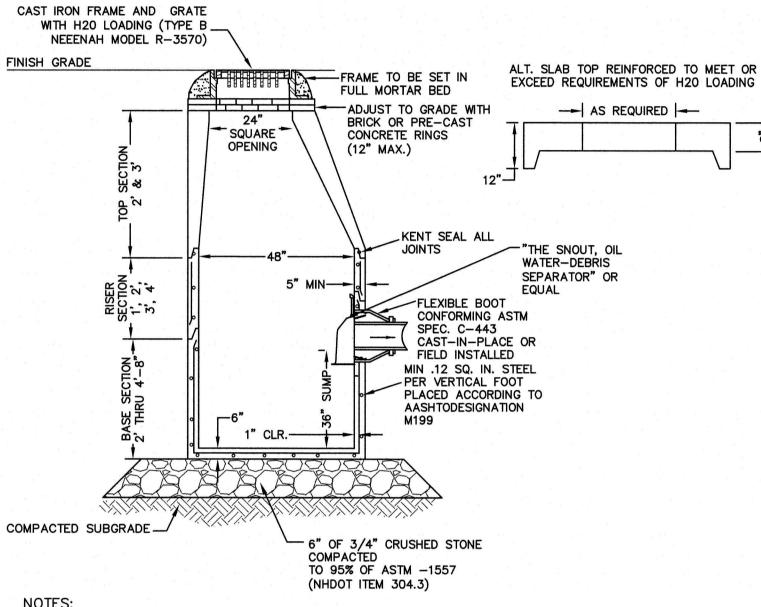
E-MAIL: JBE@JONESANDBEACH.COM

# TRENCH PATCH DETAIL

NOT TO SCALE

PO Box 219

Stratham, NH 03885



- 1. BASE SECTION SHALL BE MONOLITHIC WITH 48" INSIDE DIAMETER.
- 2. ALL SECTIONS SHALL BE DESIGNED FOR H20 LOADING.
- CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI, TYPE II CEMENT.
- 4. FRAMES AND GRATES SHALL BE HEAVY DUTY AND DESIGNED FOR H20
- 5. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE
- OF PIPE. MORTAR ALL PIPE CONNECTIONS SO AS TO BE WATERTIGHT. 6. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
- 7. ALL CATCH BASIN FRAMES AND GRATES SHALL BE NHDOT CATCH BASIN TYPE ALTERNATE 1 OR NEENAH R-3570 OR APPROVED EQUAL (24"x24"
- 8. STANDARD CATCH BASIN FRAME AND GRATE(S) SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM, BUT NO MORE THAN 12"), OR PRECAST CONCRETE 'DONUTS'.
- 9. ALL CATCH BASINS SHALL BE FITTED WITH GREASE HOODS.

## CATCH BASIN

NOT TO SCALE

FOR UPC/IAPMO INSTALLATIONS APPROVED UNDER IAPMO / ANSI MEETS ASTM Z1001-2007 C-581

GMC 1000 UPC GREASE TRAP DETAIL

NOT TO SCALE

Design: BWG	Draft: DJP	Date: 11/6/2020
Checked: BWG		FED Project No.: 19139
Drawing Name:	19139-PLAN.dw	9
THIS PLAN SHALL	NOT BE MODIFIED	WITHOUT WRITTEN
PERMISSION FROM	M JONES & BEACH	ENGINEERS, INC. (JBE).
ANY ALTERATION	S, AUTHORIZED OF	ROTHERWISE, SHALL BE
AT THE HEEDIS OF	NE DICK AND WITH	HOUT LIABILITY TO JBE.

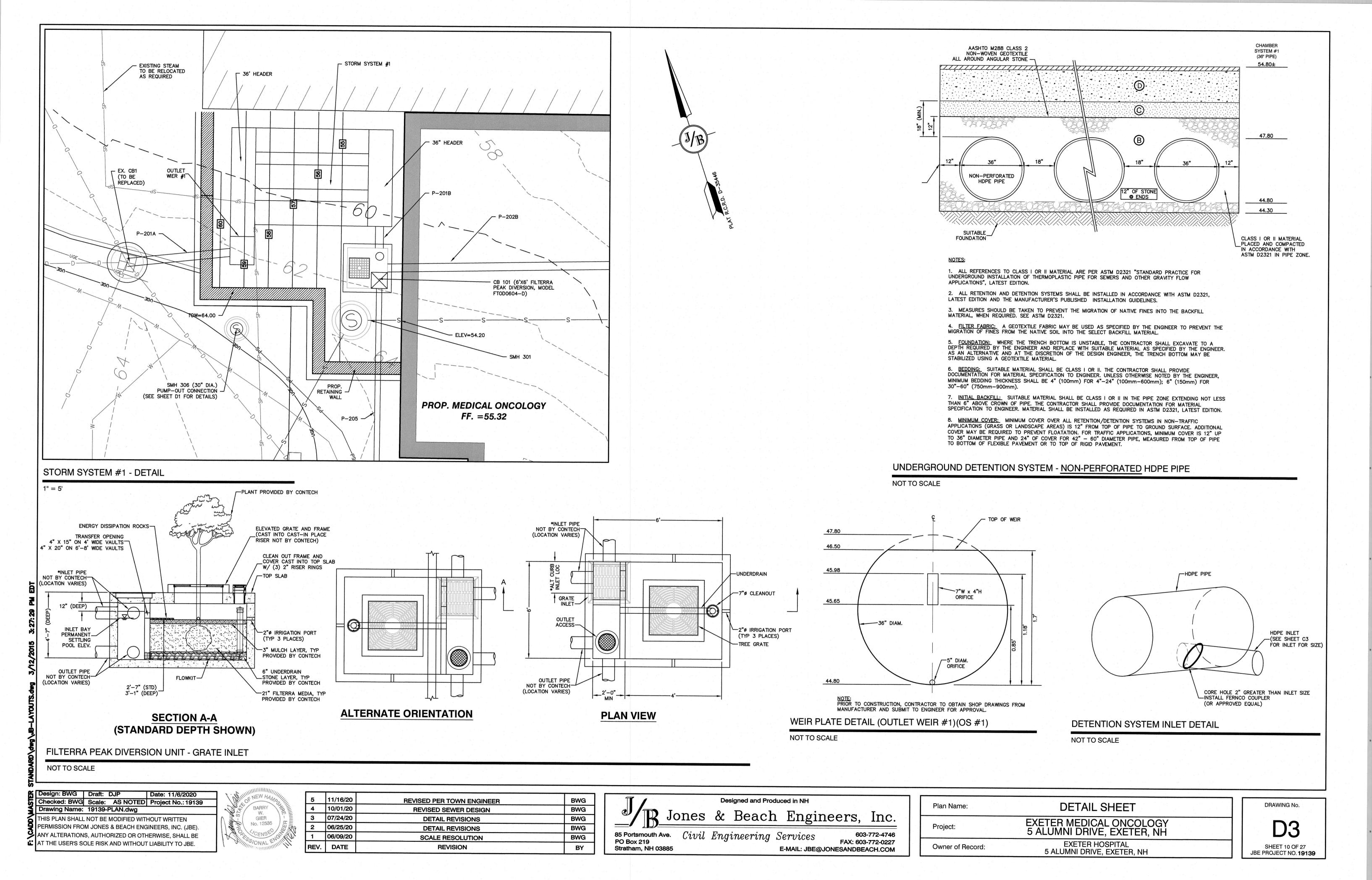


5	11/16/20	REVISED PER TOWN ENGINEER	BWG
4	10/01/20	REVISED SEWER DESIGN	BWG
3	07/24/20	DETAIL REVISIONS	BWG
2	06/25/20	DETAIL REVISIONS	BWG
1	06/09/20	SCALE RESOLUTION	BWG
REV.	DATE	REVISION	BY

Designed and Produced in NH Jones & Beach Engineers, Inc. 85 Portsmouth Ave. Civil Engineering Services 603-772-4746 FAX: 603-772-0227

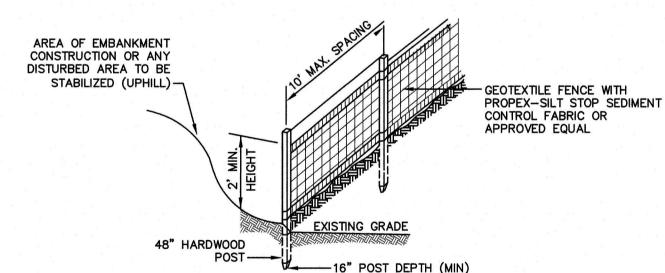
Plan Name:	DETAIL SHEET
Project:	EXETER MEDICAL ONCOLOGY 5 ALUMNI DRIVE, EXETER, NH
Owner of Record:	EXETER HOSPITAL 5 ALUMNI DRIVE, EXETER, NH

DRAWING No. SHEET 9 OF 27 JBE PROJECT NO. 19139



#### TEMPORARY EROSION CONTROL NOTES

- THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME. AT NO TIME SHALL AN AREA IN EXCESS OF 5 ACRES BE EXPOSED AT ANY ONE TIME BEFORE DISTURBED AREAS
- 2. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED, DIRECTED BY THE ENGINEER.
- 3. ALL DISTURBED AREAS (INCLUDING POND AREAS BELOW THE PROPOSED WATERLINE) SHALL BE RETURNED TO PROPOSED GRADES AND ELEVATIONS. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 6" OF SCREENED ORGANIC LOAM AND SEEDED WITH SEED MIXTURE 'C' AT A RATE NOT LESS THAN 1.10 POUNDS OF SEED PER 1,000 S.F. OF AREA (48 LBS. / ACRE).
- 4. SILT FENCES AND OTHER BARRIERS SHALL BE INSPECTED EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 0.5" OR GREATER. ALL DAMAGED AREAS SHALL BE REPAIRED, AND SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF.
- 5. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
- 6. AREAS MUST BE SEEDED AND MULCHED OR OTHERWISE PERMANENTLY STABILIZED WITHIN 3 DAYS OF FINAL GRADING, OR TEMPORARILY STABILIZED WITHIN 14 DAYS OF THE INITIAL DISTURBANCE OF SOIL. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
- ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING NORTH AMERICAN GREEN S75 EROSION CONTROL BLANKETS (OR AN EQUIVALENT APPROVED IN WRITING BY THE ENGINEER) ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SÉCURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- 9. AFTER OCTOBER 15th, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3" OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.
- 10. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
  - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
  - b. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
  - c. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED; OR
- d. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- 11. FUGITIVE DUST CONTROL IS REQUIRED TO BE CONTROLLED IN ACCORDANCE WITH ENV-A 1000, AND THE PROJECT IS TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES.
- 12. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR'S NAME, ADDRESS, AND PHONE NUMBER SHALL BE SUBMITTED TO DES VIA EMAIL (SEE BELOW).
- 13. PRIOR TO CONSTRUCTION, A PHASING PLAN THAT DELINEATES EACH PHASE OF THE PROJECT SHALL BE SUBMITTED. ALL TEMPORARY SEDIMENT BASINS THAT WILL BE NEEDED FOR DEWATERING WORK AREAS SHALL BE LOCATED AND IDENTIFIED ON THIS PLAN.
- 14. IN ORDER TO ENSURE THE STABILITY OF THE SITE AND EFFECTIVE IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROL MEASURES SPECIFIED IN THE PLANS FOR THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL BE IN STRICT COMPLIANCE WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS IN ADDITION TO THOSE CALLED FOR IN THE SWPPP:
  - a. A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL OR A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE ("MONITOR") SHALL BE EMPLOYED TO INSPECT THE SITE FROM THE START OF ALTERATION OF TERRAIN ACTIVITIES UNTIL THE SITE IS IN FULL COMPLIANCE WITH THE SITE SPECIFIC PERMIT ("PERMIT").
  - b. DURING THIS PERIOD, THE MONITOR SHALL INSPECT THE SUBJECT SITE AT LEAST ONCE A WEEK, AND IF POSSIBLE, DURING ANY 1/2 INCH OR GREATER RAIN EVENT (I.E. 1/2 INCH OF PRECIPITATION OR MORE WITHIN A 24 HOUR PERIOD). IF UNABLE TO BE PRESENT DURING SUCH A STORM, THE MONITOR SHALL INSPECT THE SITE WITHIN 24 HOURS OF THIS EVENT
  - c. THE MONITOR SHALL PROVIDE TECHNICAL ASSISTANCE AND RECOMMENDATIONS TO THE CONTRACTOR ON THE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROLS REQUIRED TO MEET THE REQUIREMENTS OF RSA 485 A:17 AND ALL APPLICABLE DES PERMIT CONDITIONS.



# CONSTRUCTION SPECIFICATIONS:

- WOVEN FABRIC FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP, MID AND BOTTOM AND EMBEDDED IN THE GROUND A MINIMUM OF 8" AND THEN COVERED WITH SOIL.
- 2. THE FENCE POSTS SHALL BE A MINIMUM OF 48" LONG, SPACED A MAXIMUM 10' APART, AND DRIVEN A MINIMUM OF 16" INTO THE GROUND.
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED 6", FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.

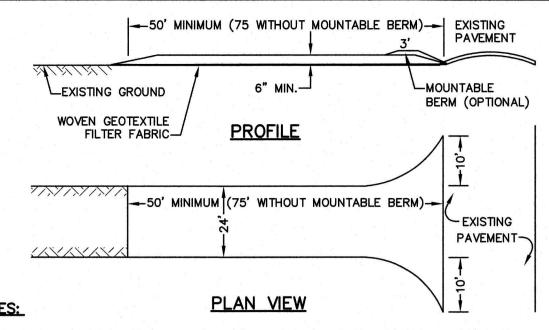
Date: 11/6/2020

- . MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED AND PROPERLY DISPOSED OF WHEN IT IS 6" DEEP OR VISIBLE 'BULGES' DEVELOP IN THE SILT FENCE.
- 5. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.
- 6. SILT FENCE SHALL REMAIN IN PLACE FOR 24 MONTHS.

# SILT FENCE

NOT TO SCALE

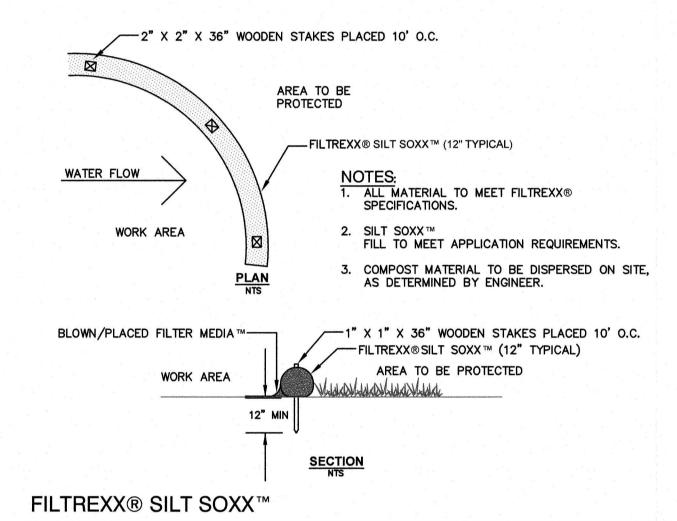
Design: BWG | Draft: DJP



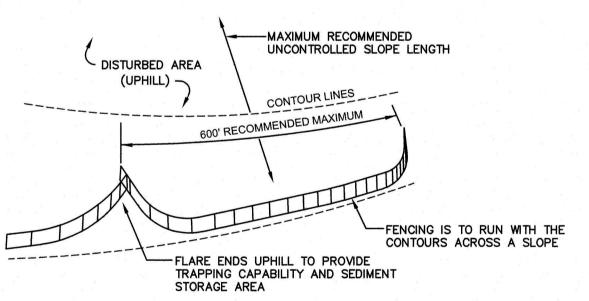
- 1. STONE FOR STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAIMED STONE, OR
- RECYCLED CONCRETE EQUIVALENT. 2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, 75' WITHOUT A MOUNTABLE BERM, AND EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH
- 3. THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES. 4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE
- INGRESS OR EGRESS OCCURS, OR 10 FEET, WHICHEVER IS GREATER. 5. GEOTEXTILE FILTER FABRIC SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER FABRIC IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENTIAL LOT.
- 6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A STONE BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
- 7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO THE PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

#### STABILIZED CONSTRUCTION ENTRANCE

#### NOT TO SCALE



# NOT TO SCALE



7. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER. THE AREA DISTURBED BY THE REMOVAL SHALL BE

## MAINTENANCE:

- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE DONE IMMEDIATELY.
- 2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- 3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.

SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

4. SEDIMENT DEPOSITS THAT ARE REMOVED, OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED.

**BWG** 

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**BWG** 

**BWG** 

**BWG** 

BY

PO Box 219

Stratham, NH 03885

# SEEDING SPECIFICATIONS

- . GRADING AND SHAPING A. SLOPES SHALL NOT BE STEEPER THAN 2:1 WITHOUT APPROPRIATE EROSION CONTROL MEASURES AS
- SPECIFIED ON THE PLANS (3:1 SLOPES OR FLATTER ARE PREFERRED).
- B. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.

#### 2. SEEDBED PREPARATION

- A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
- B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND FERTILIZER AND LIME MIXED INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL

#### 3. ESTABLISHING A STAND

A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. TYPES AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE

AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS. PER 1,000 SQ.FT.

NITROGEN(N), 50 LBS. PER ACRE OR 1.1 LBS. PER 1,000 SQ.FT. PHOSPHATE(P205), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ.FT.

POTASH(K20), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ.FT. (NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER

- ACRE OF 5-10-10.) B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
- C. REFER TO THE 'SEEDING GUIDE' AND 'SEEDING RATES' TABLES ON THIS SHEET FOR APPROPRIATE SEED MIXTURES AND RATES OF SEEDING. ALL LEGUMES (CROWNVETCH, BIRDSFOOT, TREFOIL AND FLATPEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT PRIOR TO THEIR INTRODUCTION TO THE SITE.
- D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20th OR FROM AUGUST 10th TO SEPTEMBER 1st.

#### 4. MULCH

A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING. B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING. HAY OR STRAW MULCH SHALL BE PLACED AT A RATE OF 90 LBS PER 1000 S.F.

#### 5. MAINTENANCE TO ESTABLISH A STAND

- A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED
- B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME FULLY ESTABLISHED.
- C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, ANNUAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

_USE	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A B C	FAIR POOR POOR	GOOD GOOD GOOD	GOOD FAIR EXCELLENT	FAIR FAIR GOOD
AINEAG	D	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENC SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER.		GOOD GOOD	GOOD EXCELLENT	GOOD EXCELLENT	FAIR FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES.	A B C	GOOD GOOD GOOD	GOOD GOOD EXCELLENT	GOOD FAIR EXCELLENT	FAIR POOR FAIR
PLAY AREAS AND ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	E F	FAIR FAIR	EXCELLENT EXCELLENT	EXCELLENT EXCELLENT	2/ 2/

GRAVEL PIT, SEE NH-PM-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS. / REFER TO SEEDING MIXTURES AND RATES IN TABLE BELOW.

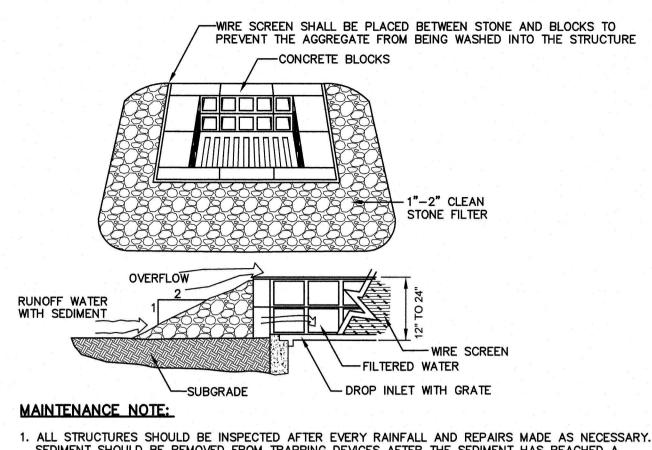
POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.

NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR OATS AT A RATE OF 2.5 LBS. PER 1000 S.F. AND SHALL BE PLACED PRIOR TO OCTOBER 15th, IF PERMANENT SEEDING NOT

# SEEDING GUIDE

POUNDS	POUNDS PER
PER ACRE	1.000 Sq. F
20	0.45
20	0.45
2	<u>0.05</u>
42	0.95
15	0.35
10	0.25
15	0.35
30	0.75
40 OR 55	0.95 OR 1.35
20	0.45
20	0.45
<u>8</u>	<u>0.20</u>
48	1.10
20	0.45
30	0.75
50	1.20
50	1.15
50	1.15
100	2.30
150	3.60
	20 20 20 42 15 10 15 30 40 OR 55 20 20 8 48 20 30 50 50

## **SEEDING RATES**



SEDIMENT SHOULD BE REMOVED FROM TRAPPING DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE HALF THE DEPTH OF THE TRAP. THE SEDIMENT SHOULD BE DISPOSED IN A SUITABLE UPLAND AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURE OR VEGETATIVE MEANS. THE TEMPORARY TRAPS SHOULD BE REMOVED AND THE AREA REPAIRED AS SOON AS THE CONTRIBUTING DRAINAGE AREA TO THE INLET HAS BEEN COMPLETELY STABILIZED.

TEMPORARY CATCH BASIN INLET PROTECTION (Block and Gravel Drop Inlet Sediment Filter)

NOT TO SCALE

# CONSTRUCTION SEQUENCE

- 1. A PRE CONSTRUCTION MEETING IS TO BE HELD WITH ALL DEPARTMENT HEADS PRIOR TO THE START OF CONSTRUCTION.
- 2. CUT AND REMOVE TREES IN CONSTRUCTION AREA AS REQUIRED OR DIRECTED.
- INSTALL SILT FENCING, HAY BALES AND CONSTRUCTION ENTRANCES PRIOR TO THE START OF CONSTRUCTION. THESE ARE TO BE MAINTAINED UNTIL THE FINAL PAVEMENT SURFACING AND LANDSCAPING AREAS ARE ESTABLISHED.
- CLEAR, CUT, GRUB AND DISPOSE OF DEBRIS IN APPROVED FACILITIES. THIS INCLUDES ANY REQUIRED DEMOLITION OF EXISTING STRUCTURES, UTILITIES, ETC.
- CONSTRUCT AND/OR INSTALL TEMPORARY OR PERMANENT SEDIMENT AND/OR DETENTION BASIN(S) AS REQUIRED. THESE FACILITIES SHALL BE INSTALLED AND STABILIZED PRIOR TO DIRECTING RUN-OFF TO THEM.
- 6. STRIP LOAM AND PAVEMENT, OR RECLAIM EXISTING PAVEMENT WITHIN LIMITS OF WORK PER THE RECOMMENDATIONS OF THE PROJECT ENGINEER AND STOCKPILE EXCESS MATERIAL. STABILIZE STOCKPILE AS NECESSARY.
- 7. PERFORM PRELIMINARY SITE GRADING IN ACCORDANCE WITH THE PLANS, INCLUDING THE CONSTRUCTION OF ANY RETAINING WALLS AND SOUND WALLS.
- 8. PREPARE BUILDING PAD(S) TO ENABLE BUILDING CONSTRUCTION TO BEGIN.
- INSTALL THE SEWER AND DRAINAGE SYSTEMS FIRST, THEN ANY OTHER UTILITIES IN ACCORDANCE WITH THE PLAN AND DETAILS. ANY CONFLICTS BETWEEN UTILITIES ARE TO BE RESOLVED WITH THE INVOLVEMENT AND APPROVAL OF THE ENGINEER.
- 10. INSTALL INLET PROTECTION AT ALL CATCH BASINS AS THEY ARE CONSTRUCTED IN ACCORDANCE WITH DETAILS.
- 11. ALL SWALES AND DRAINAGE STRUCTURES ARE TO BE CONSTRUCTED AND STABILIZED PRIOR TO HAVING RUN-OFF DIRECTED TO THEM.
- 12. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE DITCHES, CHECK DAMS, SEDIMENT TRAPS, ETC., TO PREVENT EROSION ON THE SITE AND PREVENT ANY SILTATION OF ABUTTING WATERS AND/OR PROPERTY.
- 13. PERFORM FINAL FINE GRADING, INCLUDING PLACEMENT OF 'SELECT' SUBGRADE MATERIALS.
- 14. PERFORM ALL REMAINING SITE CONSTRUCTION (i.e. BUILDING, CURBING, UTILITY CONNECTIONS, ETC.)
- 15. LOAM AND SEED ALL DISTURBED AREAS AND INSTALL ANY REQUIRED SEDIMENT AND EROSION CONTROL FACILITIES (i.e. RIP RAP, EROSION CONTROL BLANKETS, ETC.).
- 16. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 17. COMPLETE PERMANENT SEEDING AND LANDSCAPING PER LANDSCAPE PLANS.
- 18. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE BEEN 75%-85% ESTABLISHED AND SITE IMPROVEMENTS ARE COMPLETE. SMOOTH AND RE-VEGETATE ALL DISTURBED AREAS.
- 19. CLEAN SITE AND ALL DRAINAGE STRUCTURES, PIPES AND SUMPS OF ALL SILT AND DEBRIS.
- 20. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.
- 21. UPON COMPLETION OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ANY RELEVANT PERMITTING AGENCIES THAT THE CONSTRUCTION HAS BEEN FINISHED IN A SATISFACTORY MANNER.

Designed and Produced in NH

85 Portsmouth Ave. Civil Engineering Services

Jones & Beach Engineers, Inc.

603-772-4746

FAX: 603-772-0227

E-MAIL: JBE@JONESANDBEACH.COM

**EROSION AND SEDIMENT CONTROL DETAILS** EXETER MEDICAL ONCOLOGY Project: 5 ALUMNI DRIVE, EXETER, NH EXETER HOSPITAL Owner of Record: 5 ALUMNI DRIVE, EXETER, NH

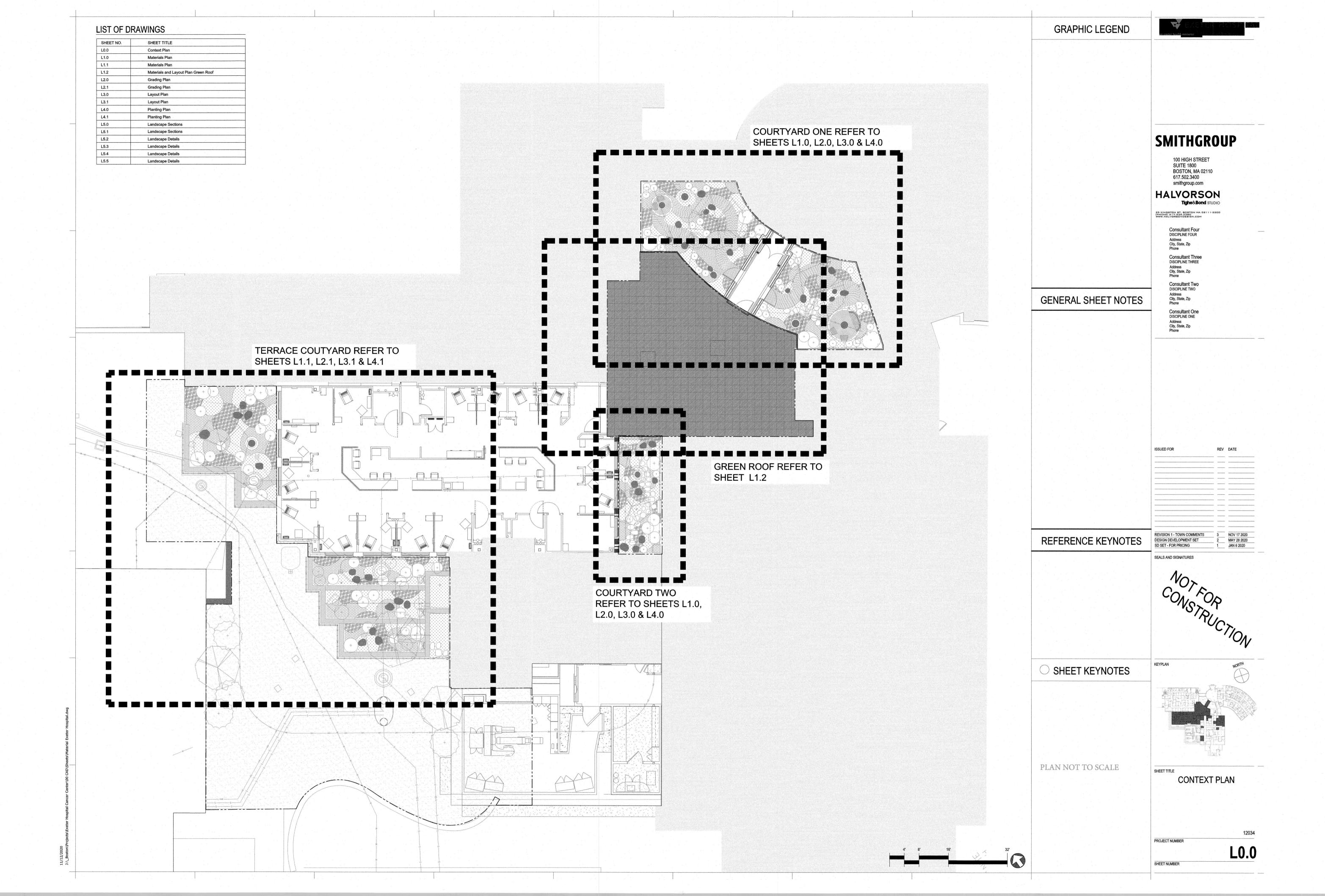
SHEET 11 OF 27 JBE PROJECT NO. 19139

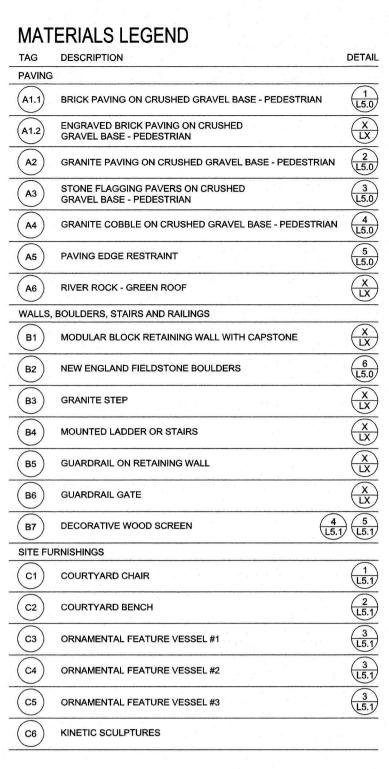
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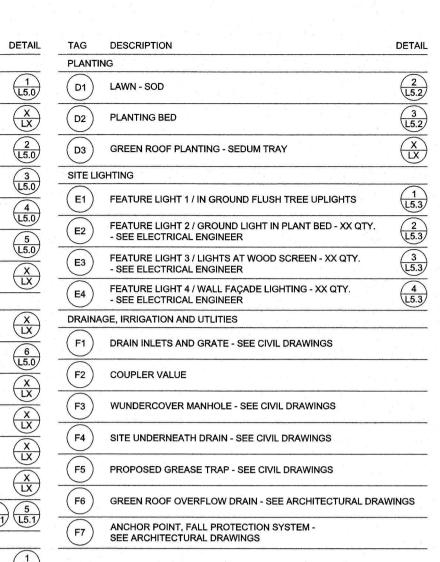
Checked: BWG Scale: AS NOTED Project No.: 19139 Drawing Name: 19139-PLAN.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE) ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



5 11/16/20 REVISED PER TOWN ENGINEER 4 10/01/20 **REVISED SEWER DESIGN** 07/24/20 **DETAIL REVISIONS** 2 06/25/20 **DETAIL REVISIONS** 06/09/20 **SCALE RESOLUTION** DATE REVISION REV.

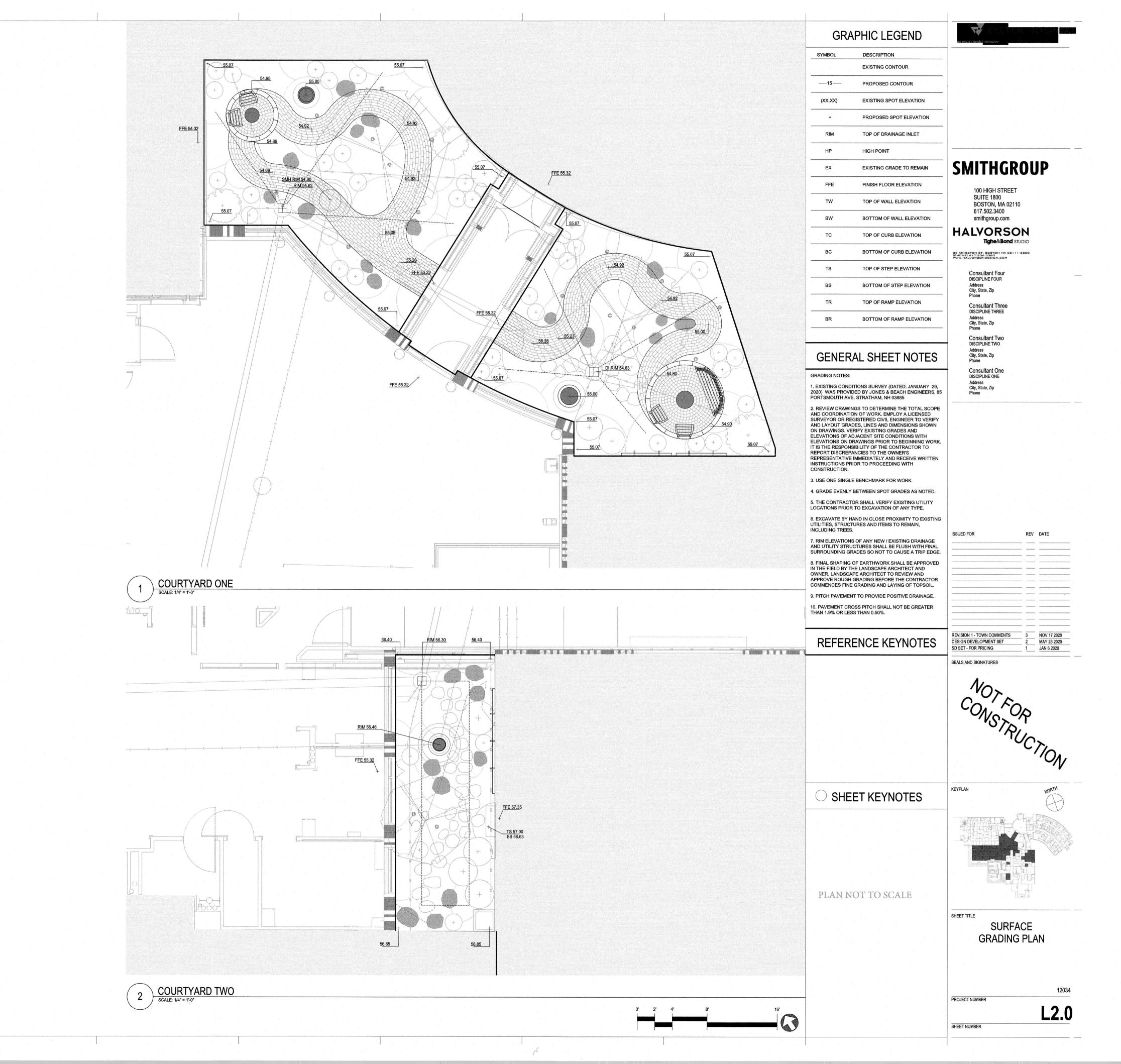






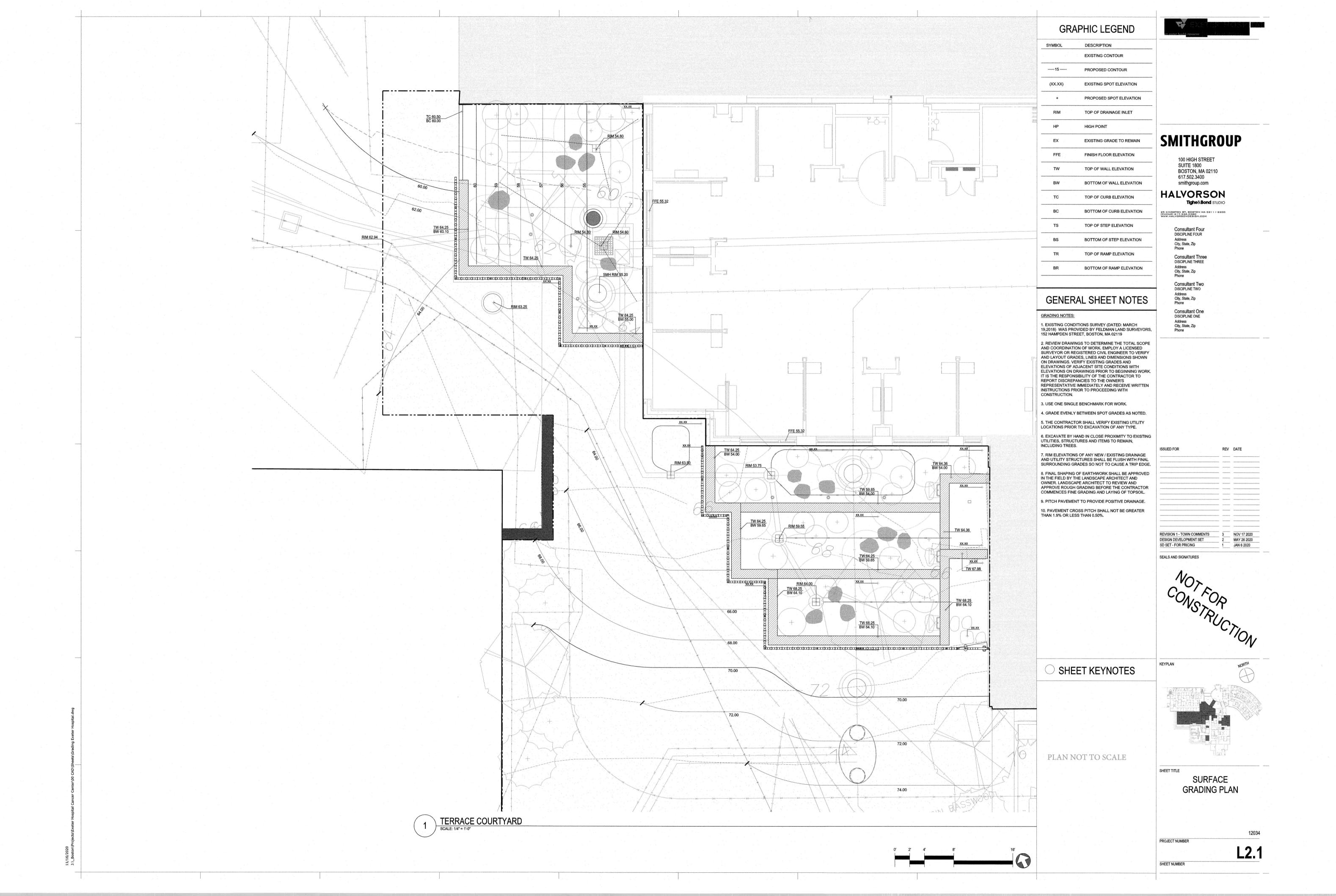


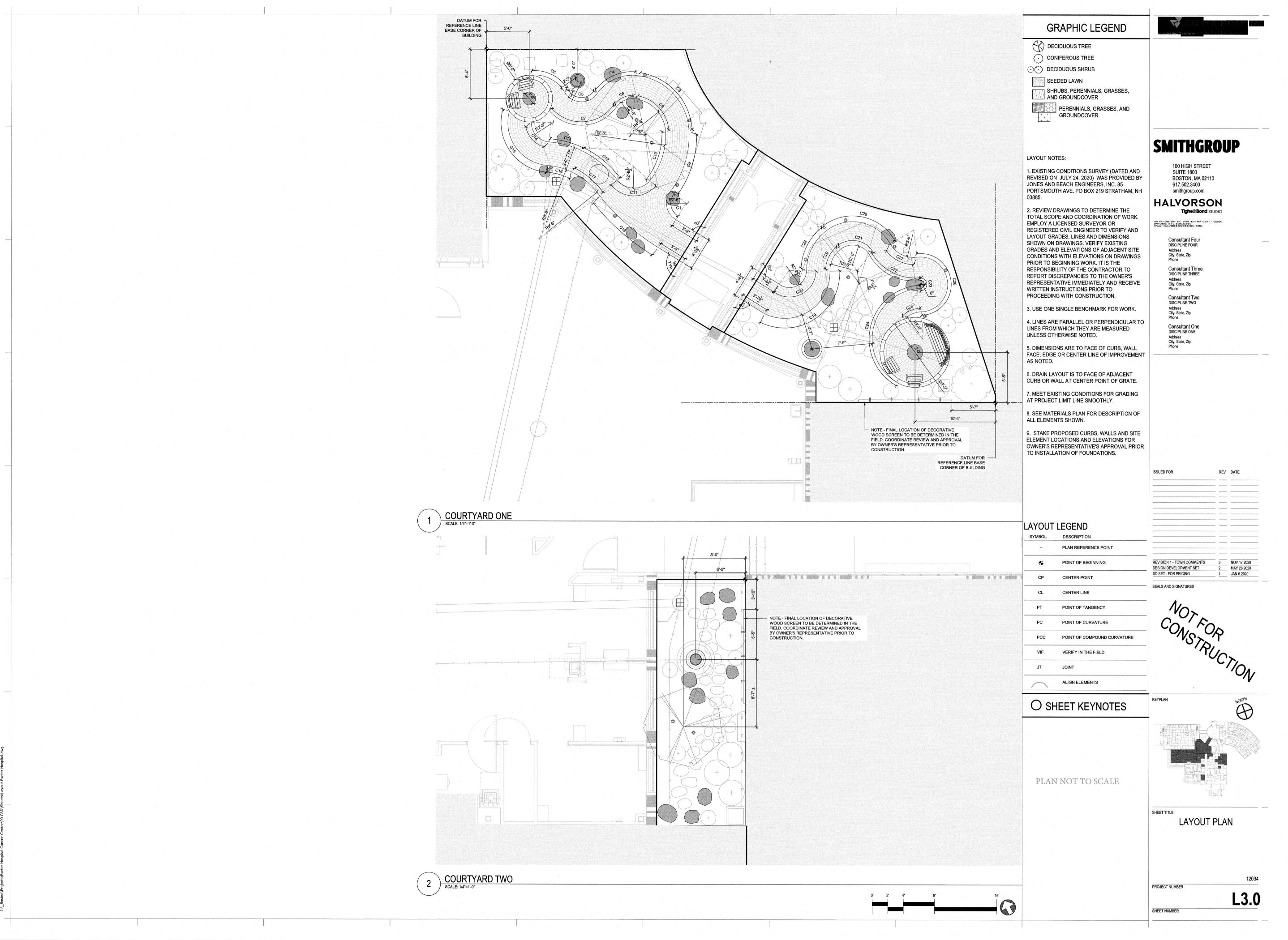


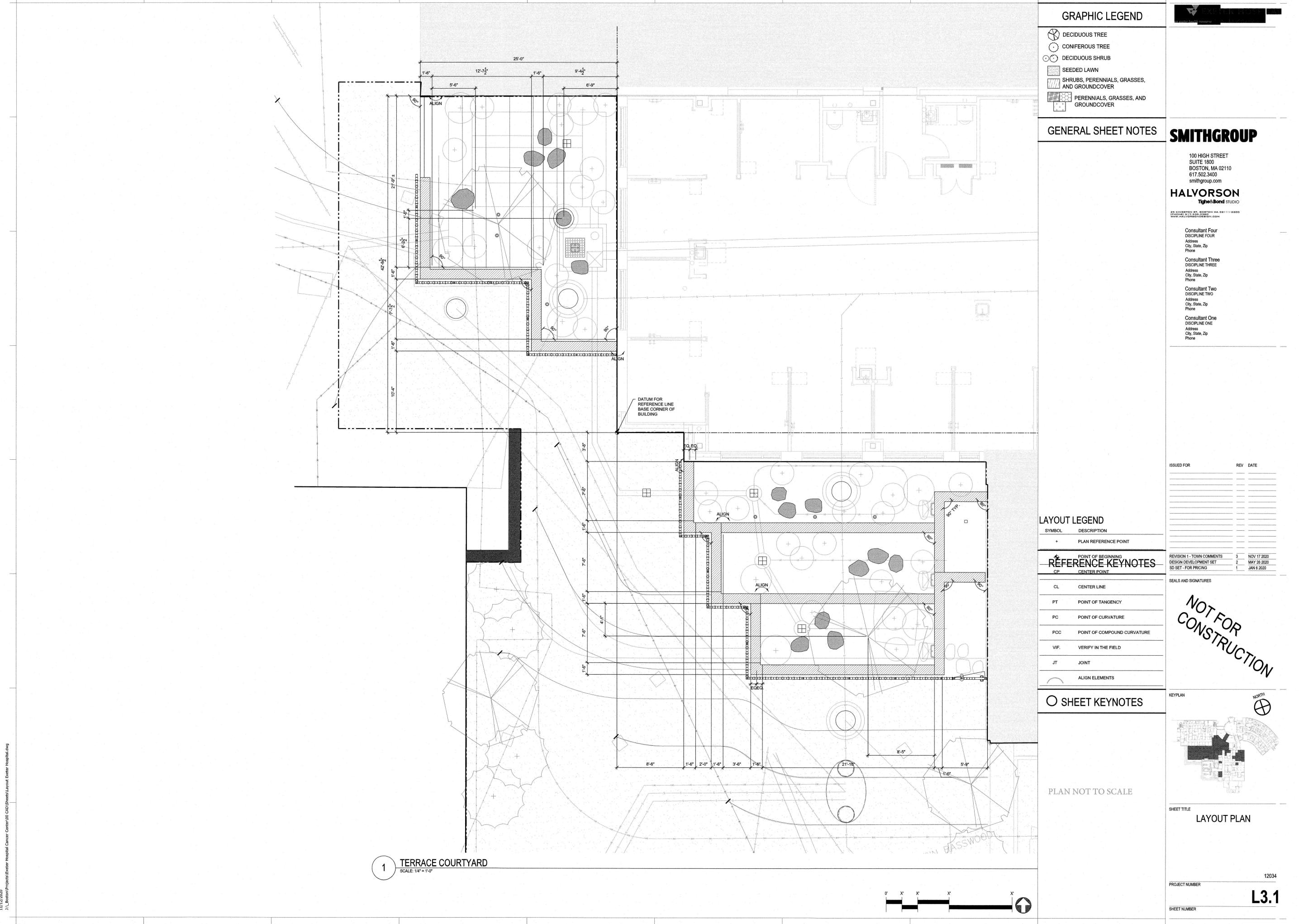


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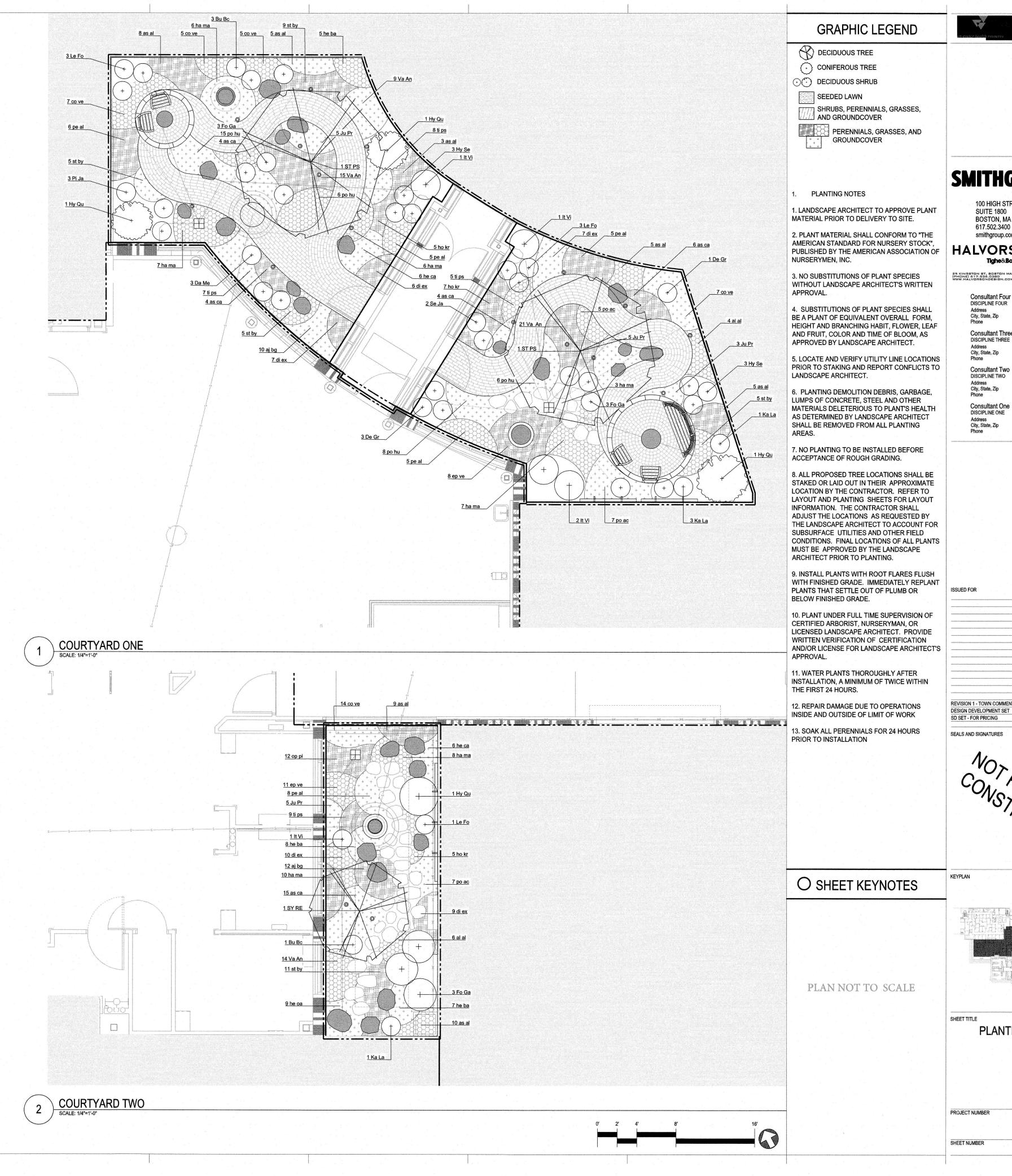






./12/2020





# **SMITHGROUP**

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# HALVORSON

Tighe&Bond STUDIO

Consultant Four DISCIPLINE FOUR Address City, State, Zip Consultant Three

DISCIPLINE THREE

Consultant Two

DISCIPLINE TWO

Consultant One

DISCIPLINE ONE

Address City, State, Zip

Address City, State, Zip

Address City, State, Zip

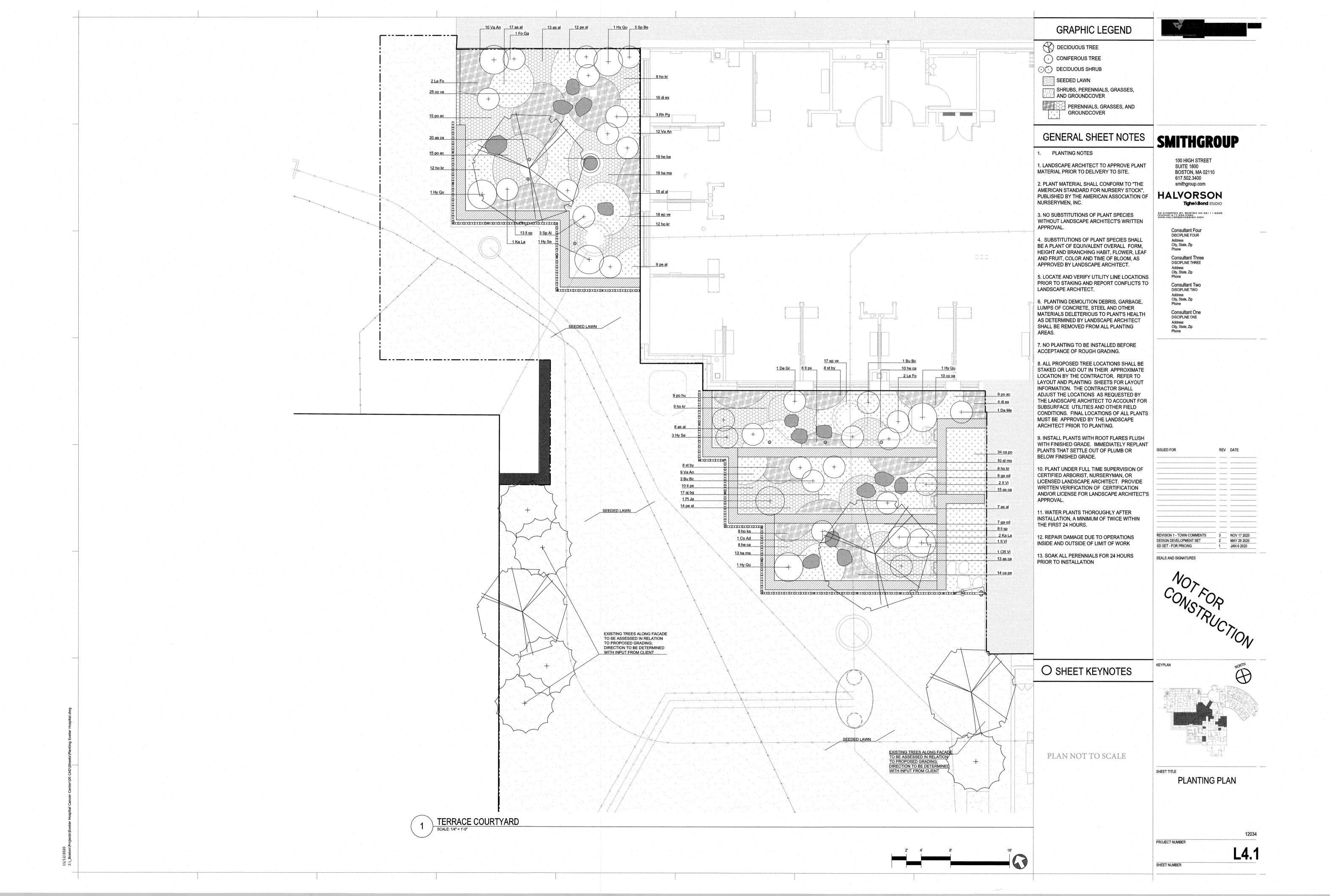
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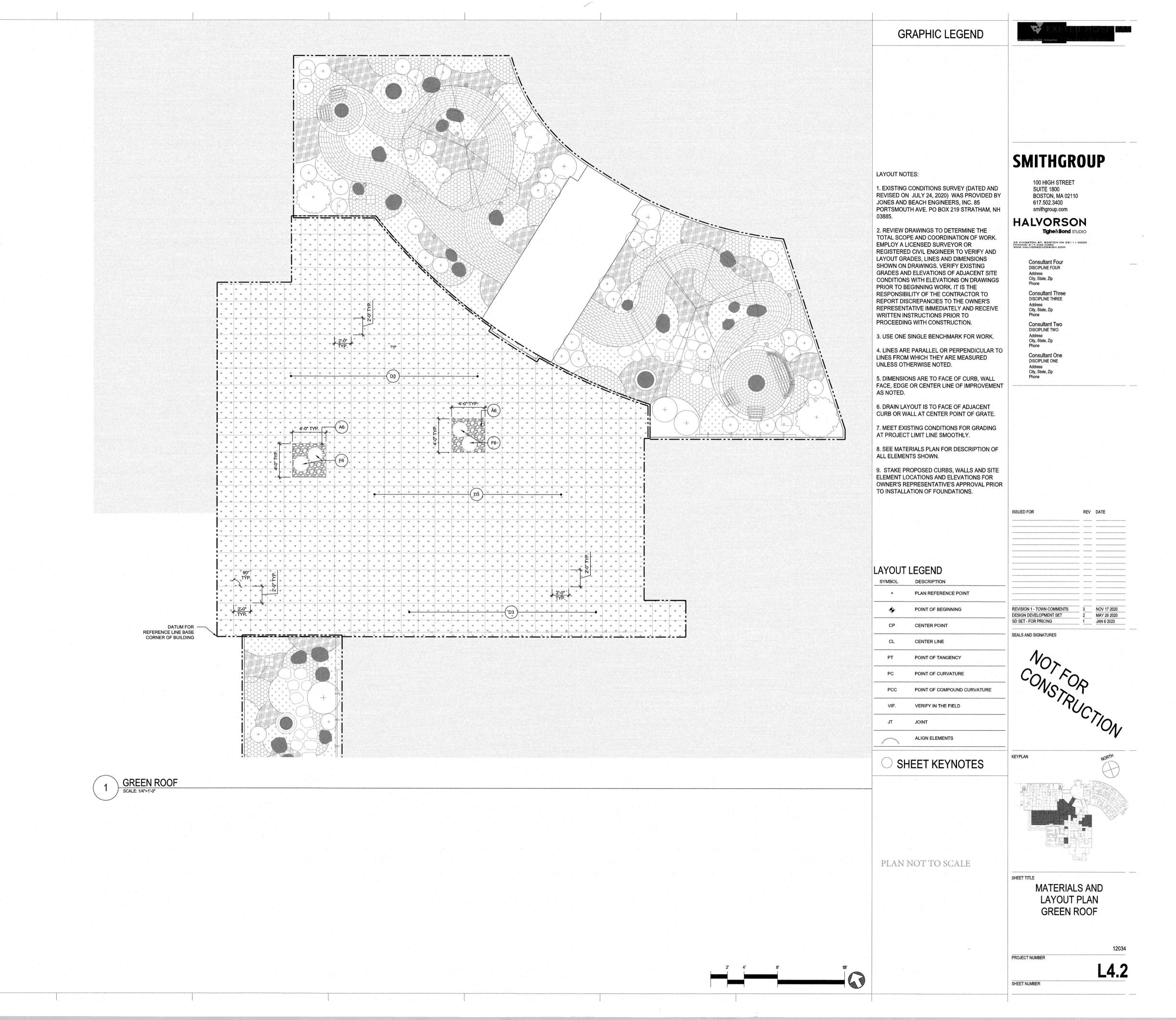
SEALS AND SIGNATURES

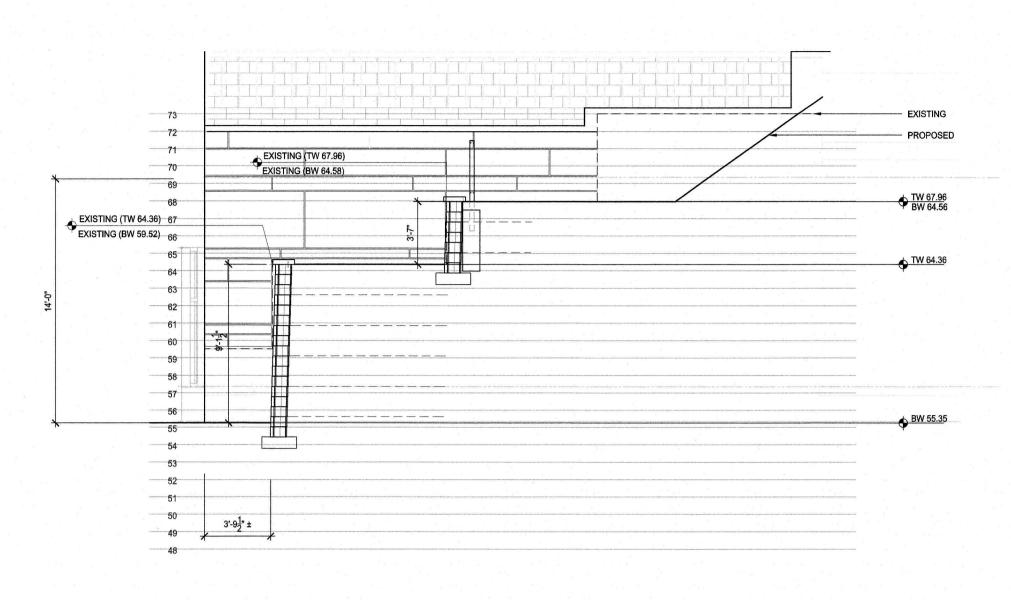
PLANTING PLAN

PROJECT NUMBER

L4.0 SHEET NUMBER





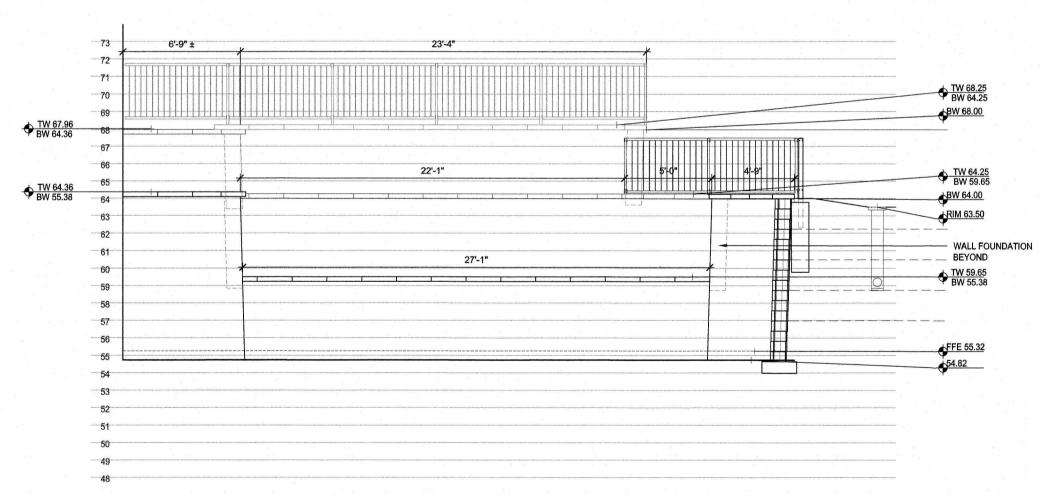


- EXISTING 72 - PROPOSED 71 68 TW 64.36 64 PERFORATED 63 NYLOPLAST DRAIN AND PERFORATED UNDER DRAIN UNDER DRAIN TW 59.65

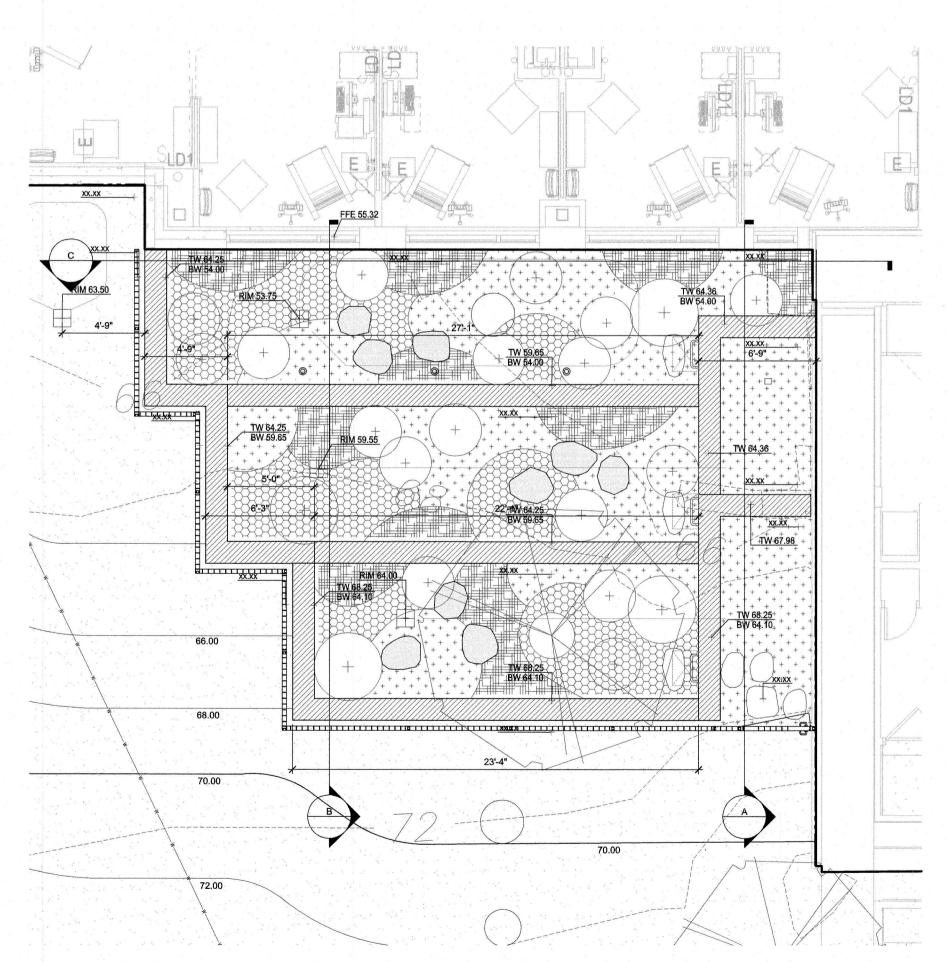
PERFORATED **UNDER DRAIN** NYLOPLAST PERFORATED UNDER DRAIN → BW 55.38 PERFORATED **UNDER DRAIN** 52 8'-1"

REAR EXTERIOR COURTYARD - SECTION A

REAR EXTERIOR COURTYARD - SECTION B



REAR EXTERIOR COURTYARD - SECTION C
SCALE: 1/4"=1"-0"



# **GRAPHIC LEGEND**

SYMBOL	DESCRIPTION
	EXISTING CONTOUR
—15 —	PROPOSED CONTOUR
(XX.XX)	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
RIM	TOP OF DRAINAGE INLET
HP	HIGH POINT
EX	EXISTING GRADE TO REMAIN
FFE	FINISH FLOOR ELEVATION
TW	TOP OF WALL ELEVATION
BW	BOTTOM OF WALL ELEVATION
тс	TOP OF CURB ELEVATION
ВС	BOTTOM OF CURB ELEVATION
TS	TOP OF STEP ELEVATION
BS	BOTTOM OF STEP ELEVATION
TR	TOP OF RAMP ELEVATION
BR	BOTTOM OF RAMP ELEVATION
<del></del>	

# **GENERAL SHEET NOTES**

**GRADING NOTES:** 

1. EXISTING CONDITIONS SURVEY (DATED: JANUARY 29, 2020) WAS PROVIDED BY JONES & BEACH ENGINEERS, 85 PORTSMOUTH AVE. STRATHAM, NH 03885

2. REVIEW DRAWINGS TO DETERMINE THE TOTAL SCOPE AND COORDINATION OF WORK. EMPLOY A LICENSED SURVEYOR OR REGISTERED CIVIL ENGINEER TO VERIFY AND LAYOUT GRADES, LINES AND DIMENSIONS SHOWN ON DRAWINGS. VERIFY EXISTING GRADES AND ELEVATIONS OF ADJACENT SITE CONDITIONS WITH ELEVATIONS ON DRAWINGS PRIOR TO BEGINNING WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPORT DISCREPANCIES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY AND RECEIVE WRITTEN INSTRUCTIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.

3. USE ONE SINGLE BENCHMARK FOR WORK. 4. GRADE EVENLY BETWEEN SPOT GRADES AS NOTED. 5. THE CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION OF ANY TYPE.

7. RIM ELEVATIONS OF ANY NEW / EXISTING DRAINAGE AND UTILITY STRUCTURES SHALL BE FLUSH WITH FINAL SURROUNDING GRADES SO NOT TO CAUSE A TRIP EDGE.

6. EXCAVATE BY HAND IN CLOSE PROXIMITY TO EXISTING UTILITIES, STRUCTURES AND ITEMS TO REMAIN, INCLUDING

8. FINAL SHAPING OF EARTHWORK SHALL BE APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT AND OWNER. LANDSCAPE ARCHITECT TO REVIEW AND APPROVE ROUGH GRADING BEFORE THE CONTRACTOR COMMENCES FINE GRADING AND LAYING OF TOPSOIL.

9. PITCH PAVEMENT TO PROVIDE POSITIVE DRAINAGE. 10. PAVEMENT CROSS PITCH SHALL NOT BE GREATER THAN

# REFERENCE KEYNOTES

SEALS AND SIGNATURES

DESIGN DEVELOPMENT SET SD SET - FOR PRICING

REV DATE

NOV 17 2020 MAY 26 2020 JAN 6 2020

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Consultant Three DISCIPLINE THREE

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Address City, State, Zip

Consultant Two DISCIPLINE TWO

Consultant One

DISCIPLINE ONE Address City, State, Zip

DISCIPLINE FOUR Address City, State, Zip

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Tighe&Bond studio

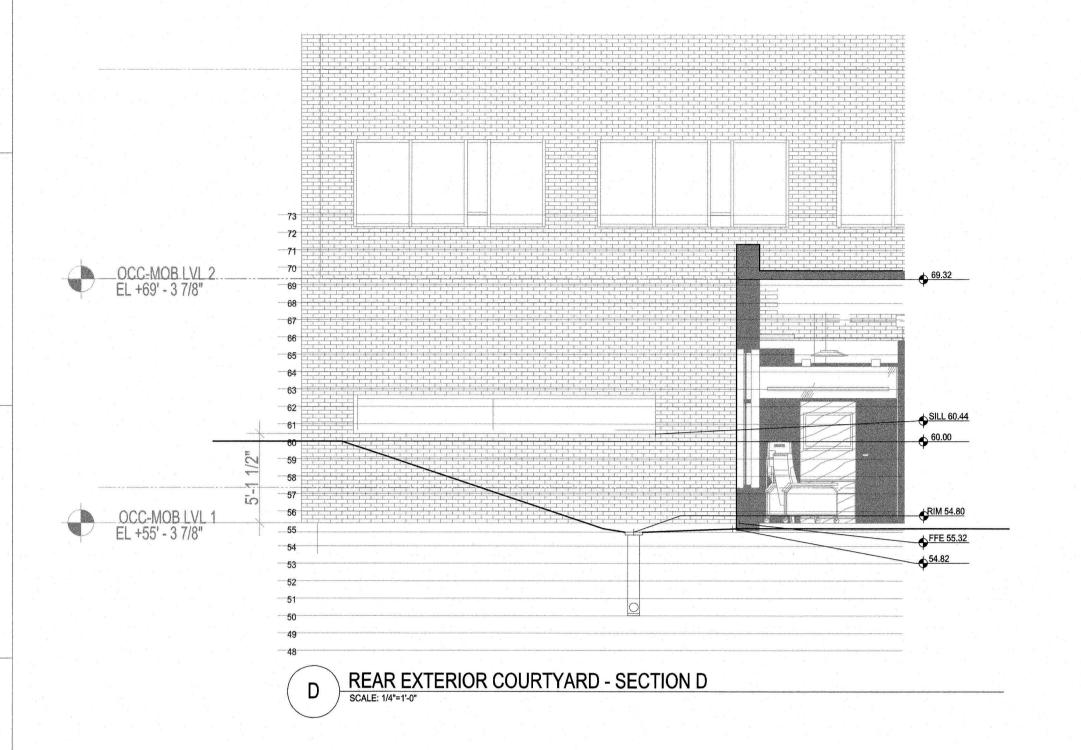
○ SHEET KEYNOTES

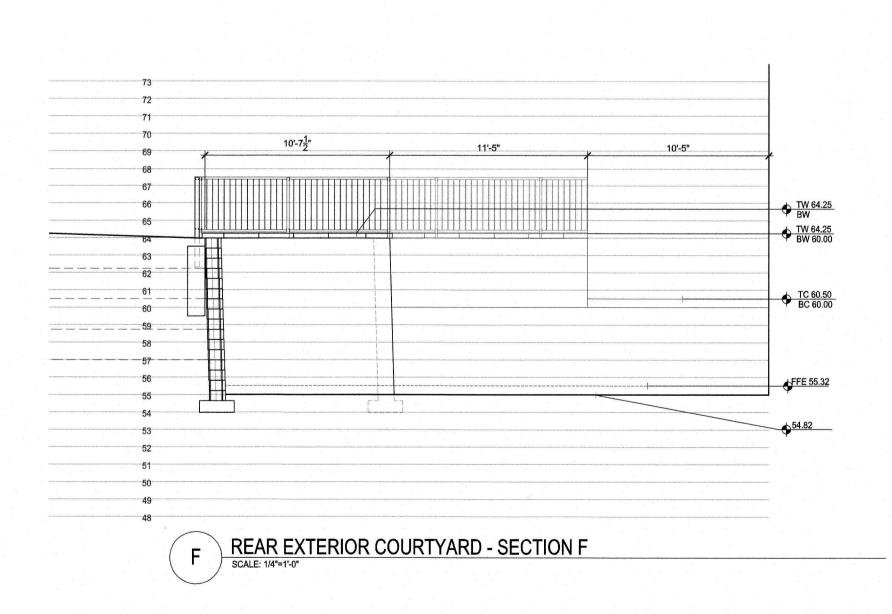
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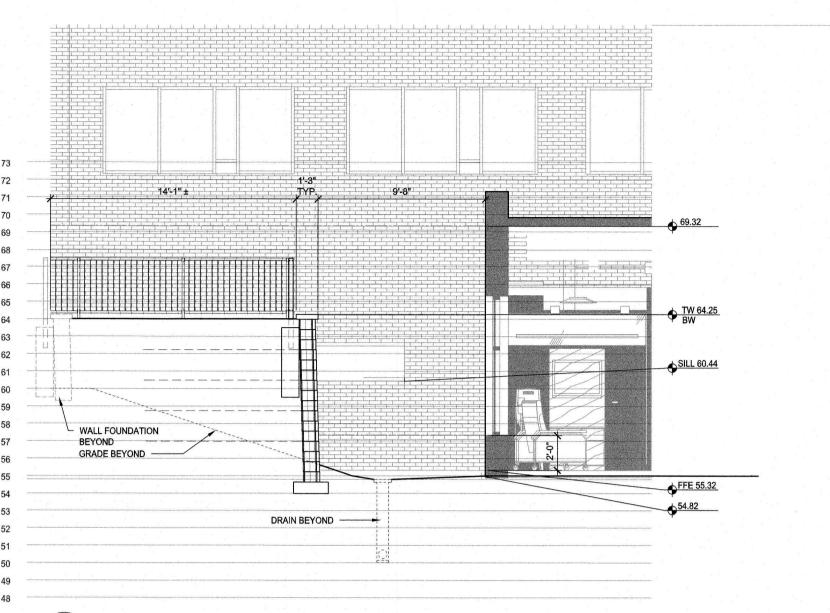
LANDSCAPE SECTIONS

PROJECT NUMBER

L5.0 SHEET NUMBER

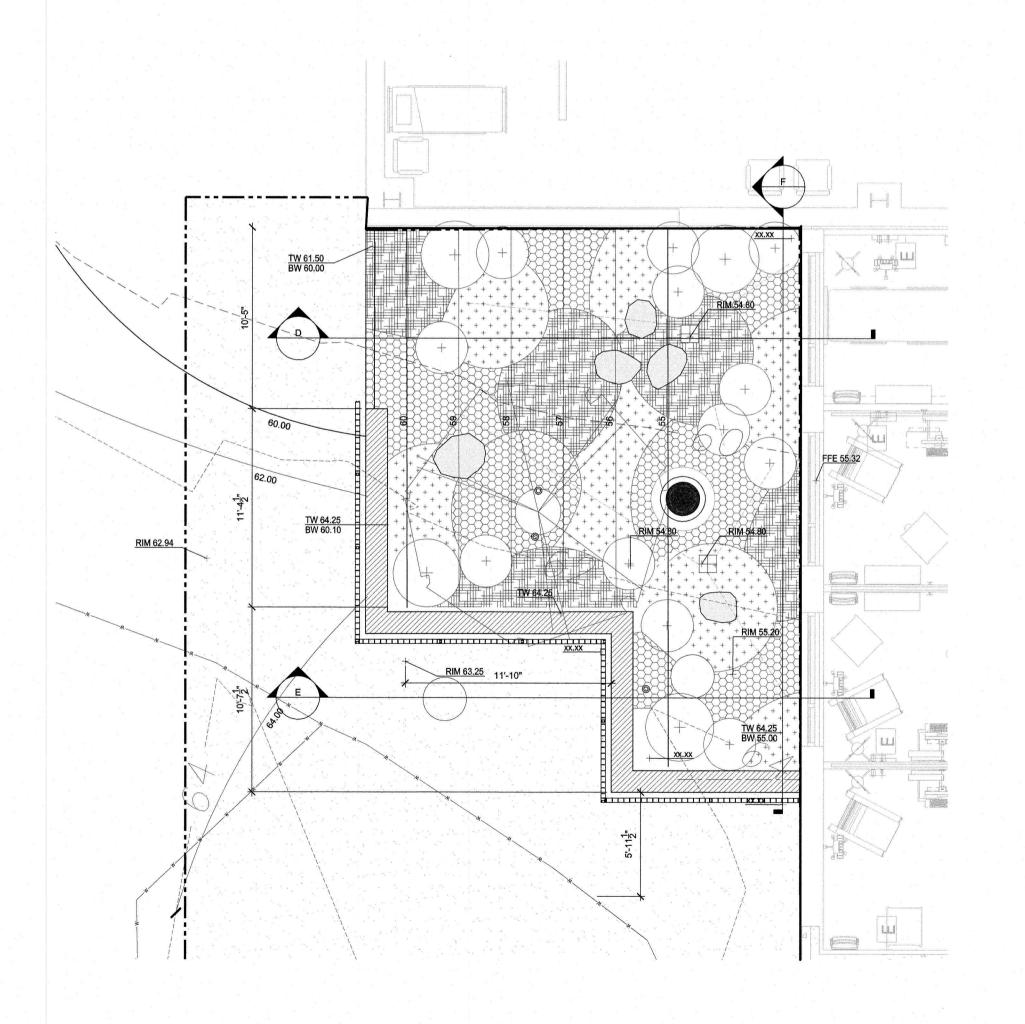






REAR EXTERIOR COURTYARD - SECTION D

SCALE: 1/4"=1'-0"



# **GRAPHIC LEGEND**

DESCRIPTION

OTMECE	DECORIT HOR
	EXISTING CONTOUR
15	PROPOSED CONTOUR
(XX.XX)	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
RIM	TOP OF DRAINAGE INLET
НР	HIGH POINT
EX	EXISTING GRADE TO REMAIN
FFE	FINISH FLOOR ELEVATION
TW	TOP OF WALL ELEVATION
BW	BOTTOM OF WALL ELEVATION
тс	TOP OF CURB ELEVATION
ВС	BOTTOM OF CURB ELEVATION
TS	TOP OF STEP ELEVATION
BS	BOTTOM OF STEP ELEVATION
TR	TOP OF RAMP ELEVATION
BR	BOTTOM OF RAMP ELEVATION

# **GENERAL SHEET NOTES**

GRADING NOTES:

1. EXISTING CONDITIONS SURVEY (DATED: JANUARY 29, 2020) WAS PROVIDED BY JONES & BEACH ENGINEERS, 85 PORTSMOUTH AVE. STRATHAM, NH 03885

2. REVIEW DRAWINGS TO DETERMINE THE TOTAL SCOPE AND COORDINATION OF WORK. EMPLOY A LICENSED SURVEYOR OR REGISTERED CIVIL ENGINEER TO VERIFY AND LAYOUT GRADES, LINES AND DIMENSIONS SHOWN ON DRAWINGS. VERIFY EXISTING GRADES AND ELEVATIONS OF ADJACENT SITE CONDITIONS WITH ELEVATIONS ON DRAWINGS PRIOR TO BEGINNING WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPORT DISCREPANCIES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY AND RECEIVE WRITTEN INSTRUCTIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.

3. USE ONE SINGLE BENCHMARK FOR WORK.

4. GRADE EVENLY BETWEEN SPOT GRADES AS NOTED. 5. THE CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION OF ANY TYPE.

6. EXCAVATE BY HAND IN CLOSE PROXIMITY TO EXISTING UTILITIES, STRUCTURES AND ITEMS TO REMAIN, INCLUDING TREES. 7. RIM ELEVATIONS OF ANY NEW / EXISTING DRAINAGE AND UTILITY STRUCTURES SHALL BE FLUSH WITH FINAL SURROUNDING GRADES SO NOT TO CAUSE A TRIP EDGE.

8. FINAL SHAPING OF EARTHWORK SHALL BE APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT AND OWNER.

GRADING AND LAYING OF TOPSOIL. 9. PITCH PAVEMENT TO PROVIDE POSITIVE DRAINAGE. 10. PAVEMENT CROSS PITCH SHALL NOT BE GREATER THAN

LANDSCAPE ARCHITECT TO REVIEW AND APPROVE ROUGH GRADING BEFORE THE CONTRACTOR COMMENCES FINE

# REFERENCE KEYNOTES

SEALS AND SIGNATURES

REV DATE

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NOV 17 2020 MAY 26 2020 JAN 6 2020

**SMITHGROUP** 

100 HIGH STREET **SUITE 1800** BOSTON, MA 02110

617.502.3400 smithgroup.com HALVORSON

Consultant Four

**Consultant Three** DISCIPLINE THREE

Consultant Two

Consultant One

DISCIPLINE ONE Address City, State, Zip

ISSUED FOR

REVISION 1 - TOWN COMMENTS DESIGN DEVELOPMENT SET SD SET - FOR PRICING

DISCIPLINE TWO Address City, State, Zip

City, State, Zip

Address City, State, Zip

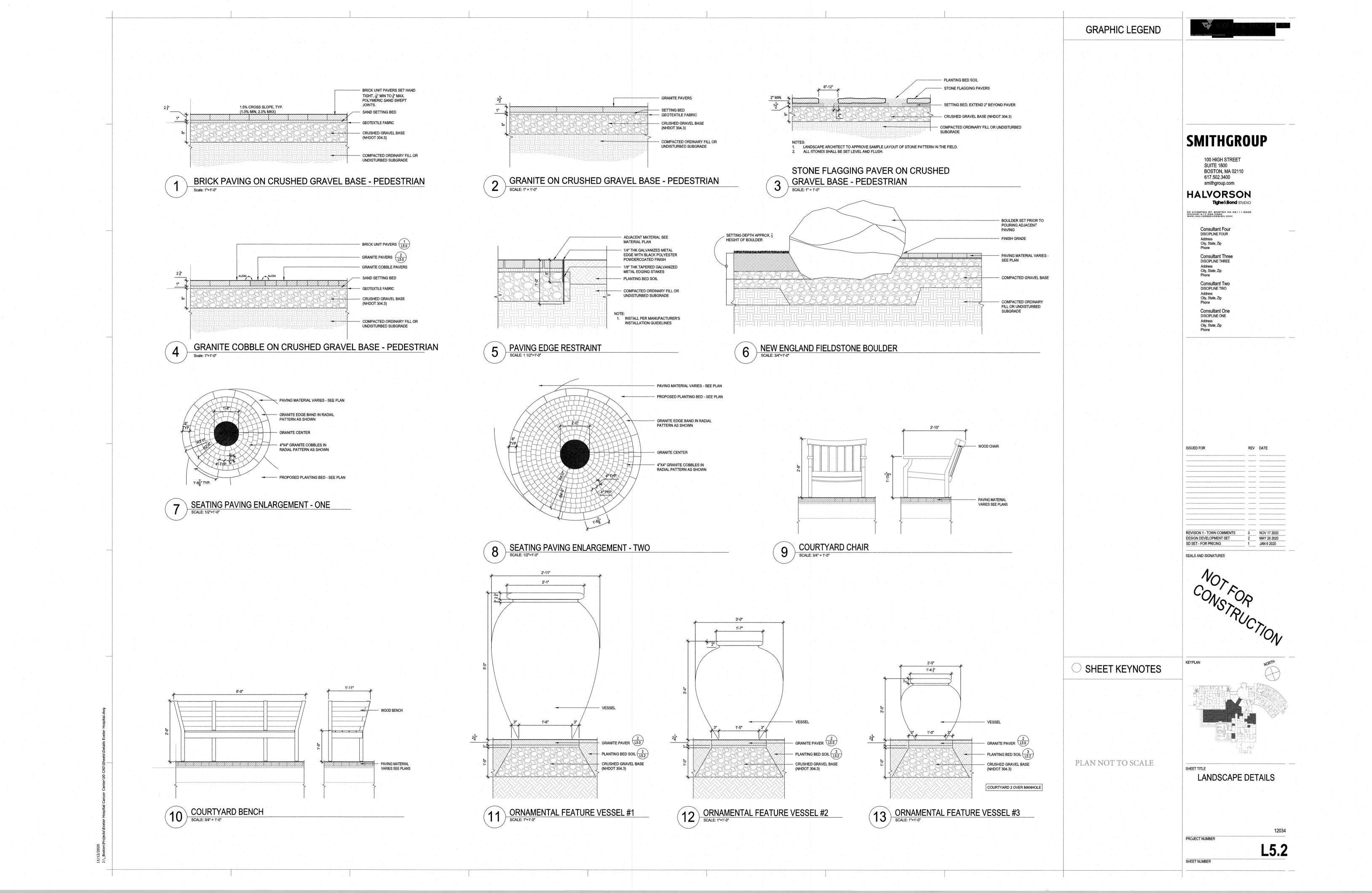
# ○ SHEET KEYNOTES

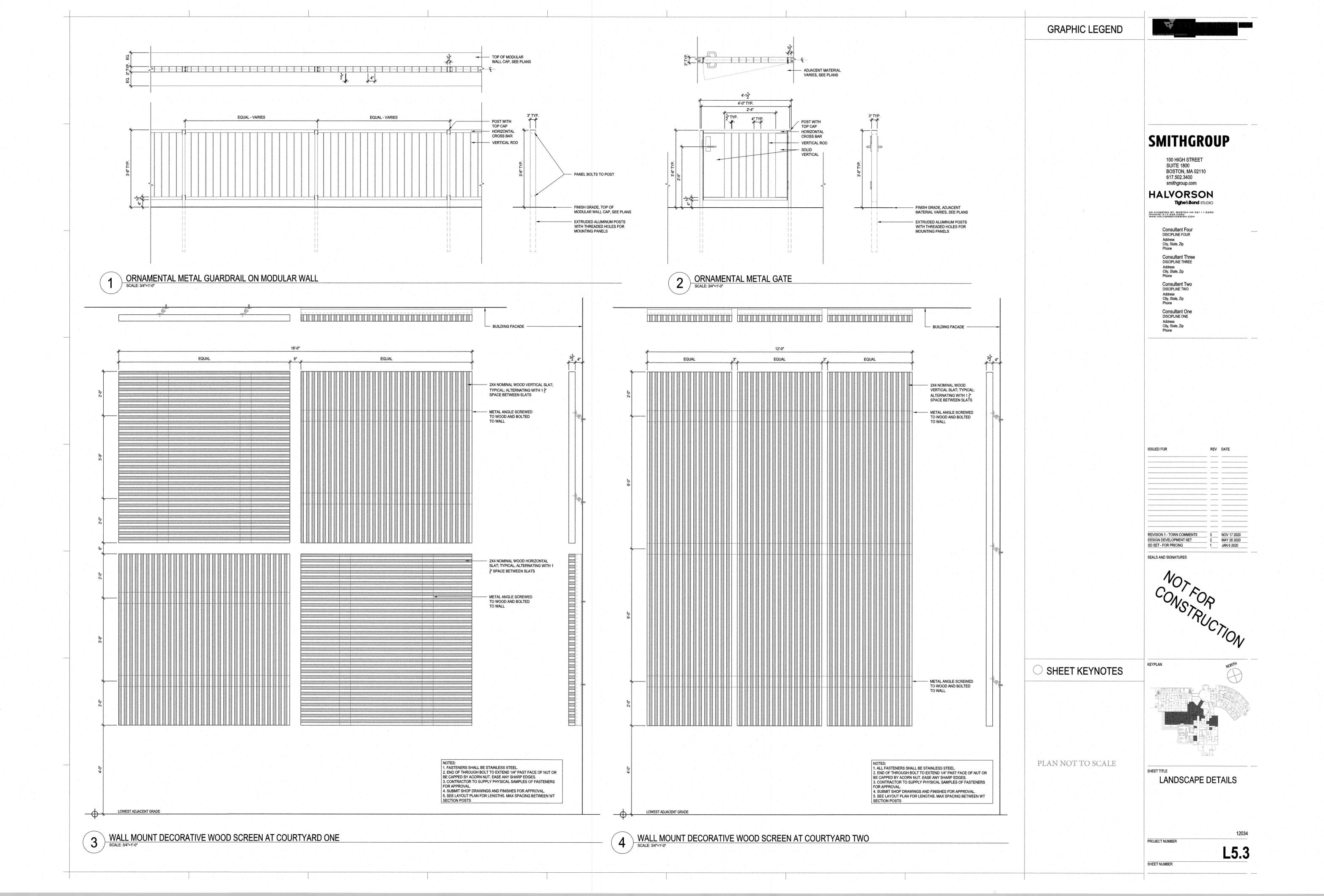
PLAN NOT TO SCALE

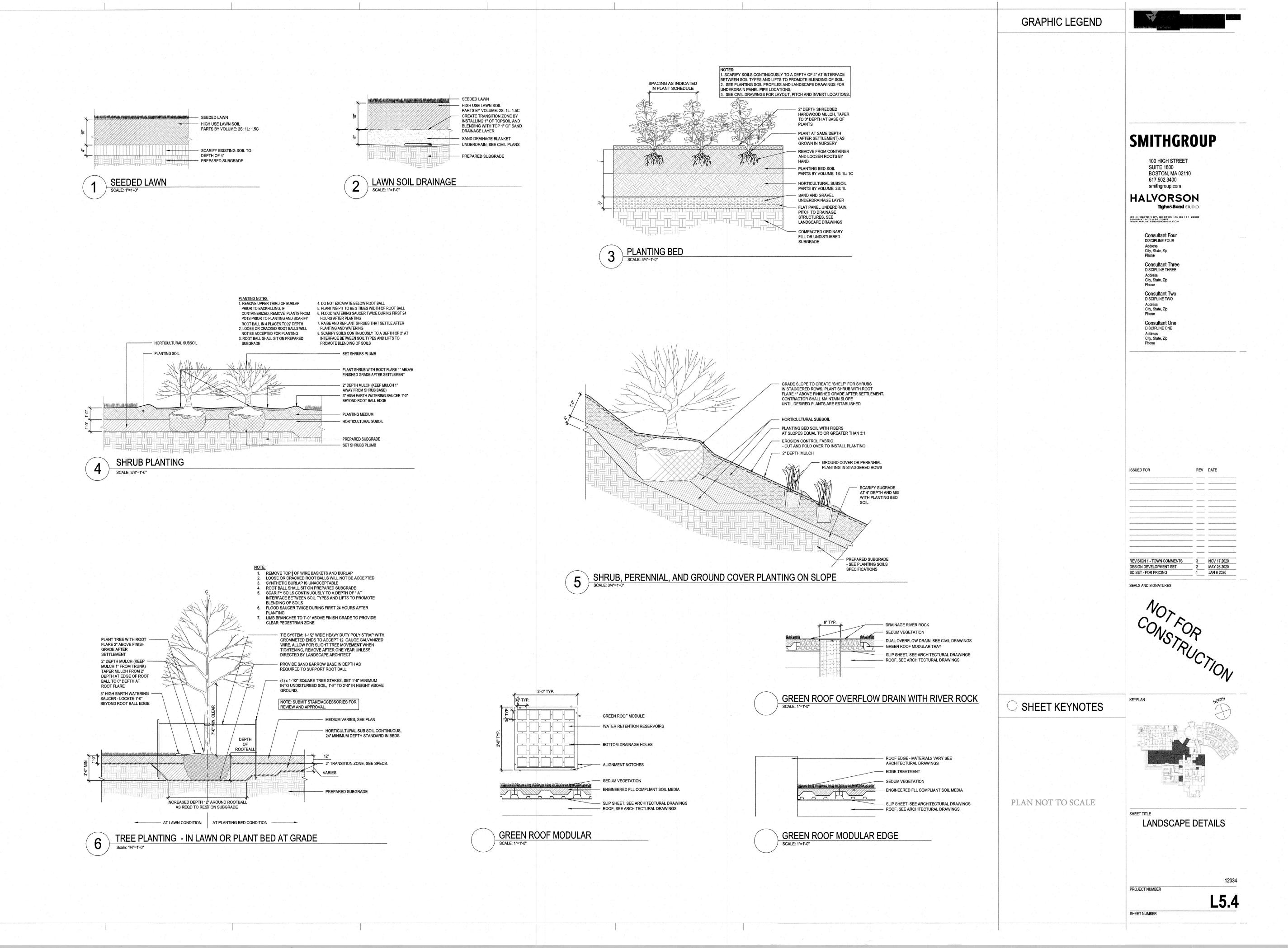
LANDSCAPE **SECTIONS** 

L5.1

SHEET NUMBER



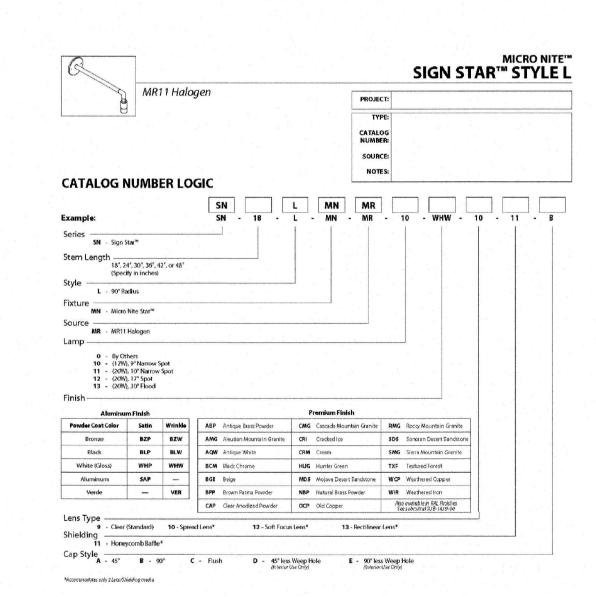


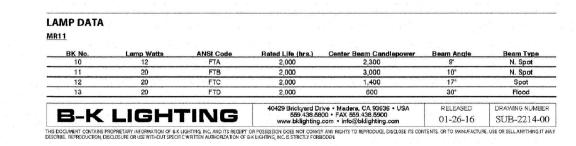




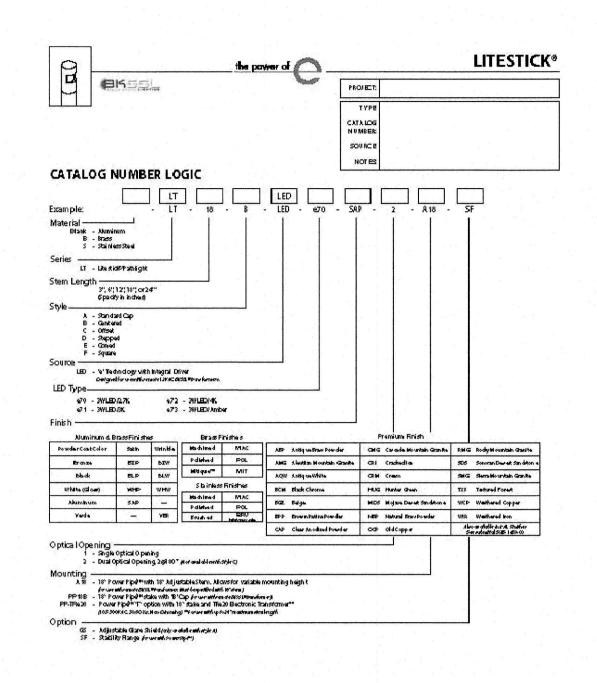
E-K LIGHTING MADEINTHEUSA 656,438,5200 | INFO@BKLIGHTING.COM | BKLIGHTING.COM THIS DOCUMENT CONTAINS PROPRETARY INFORMATION OF BK LIGHTING, INC. AND ITS RECEIPT OR POSSESSION DOES NOT CONVEY ANY RIGHTS TO REPRODUCE, DISCLOSETTS CONTENTS OF TO 03/26/2020 SMU-1077

1 TREE UPLIGH





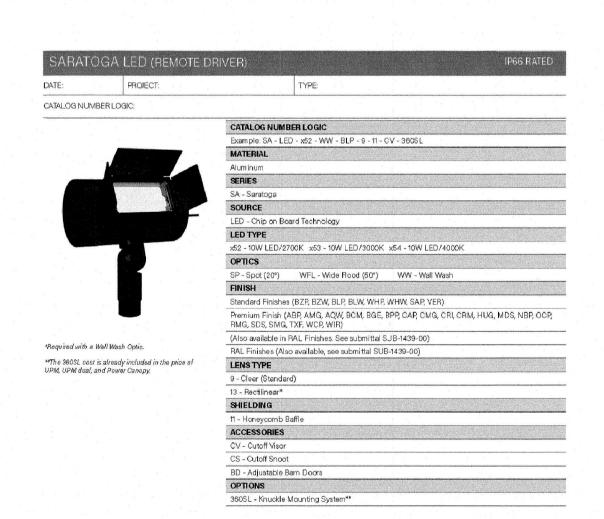
WOOD SCREEN LIGHT
SCALE: N.T.S.





PLANT BED LIGHT

2 PLANT I SCALE: N.T.S.



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4 WALL FACADE LIGHT AT REAR COURTYARD SCALE: N.T.S.



**SMITHGROUP** 

**GRAPHIC LEGEND** 

100 HIGH STREET SUITE 1800 BOSTON, MA 02110 617.502.3400 smithgroup.com

# HALVORSON

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ISSUED FOR REV DATE

DESIGN DEVELOPMENT SET
SD SET - FOR PRICING
SEALS AND SIGNATURES

REVISION 1 - TOWN COMMENTS

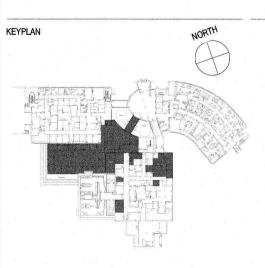


3 NOV 17 2020

MAY 26 2020

JAN 6 2020

# ○ SHEET KEYNOTES



SHEET TITLE

LANDSCAPE DETAILS

12034 PROJECT NUMBER

L5.5