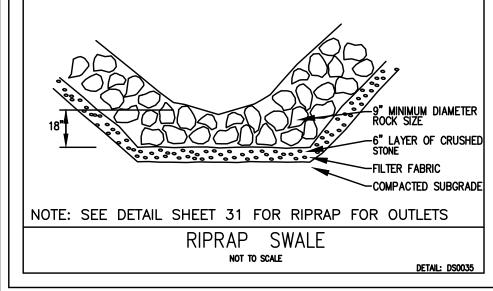


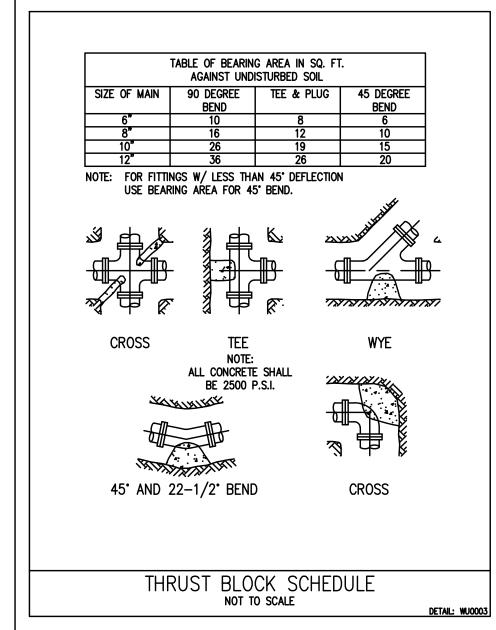
6"x 6" W 1.4 x W 1.4 WELDED WIRE MESH

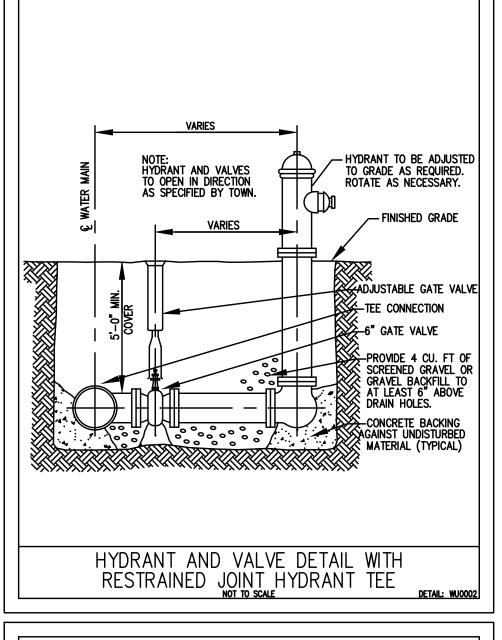
GRAVEL BASE

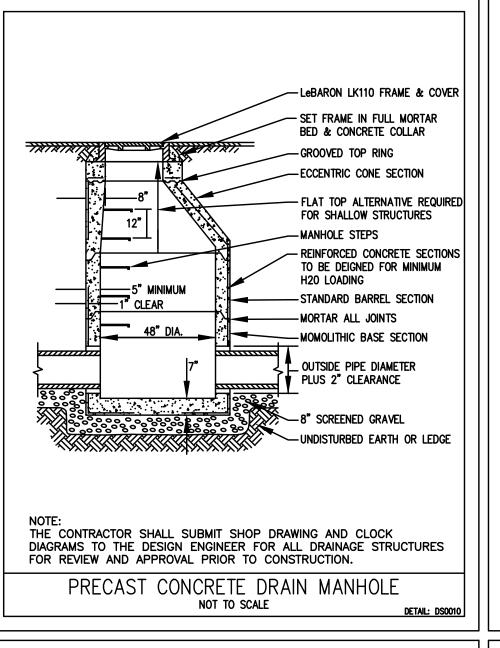
-#4 RE-BAR CONTINUOUS

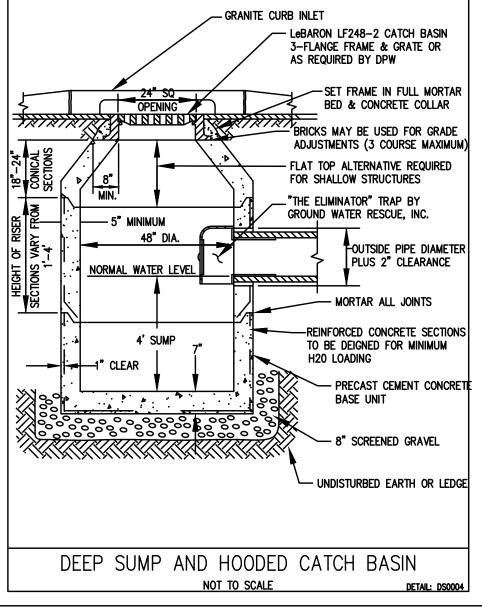
DWG # DETO049

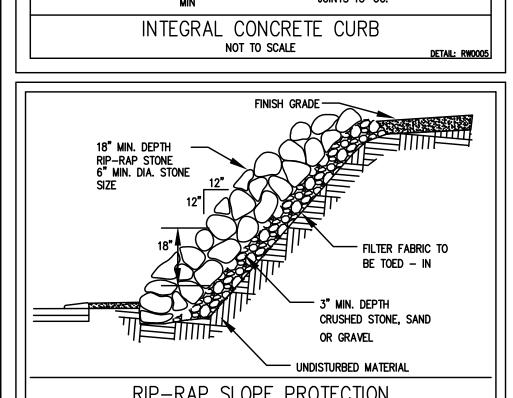


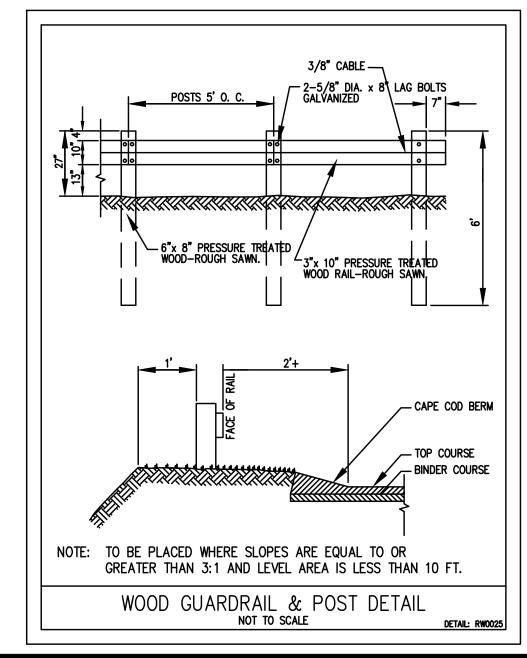


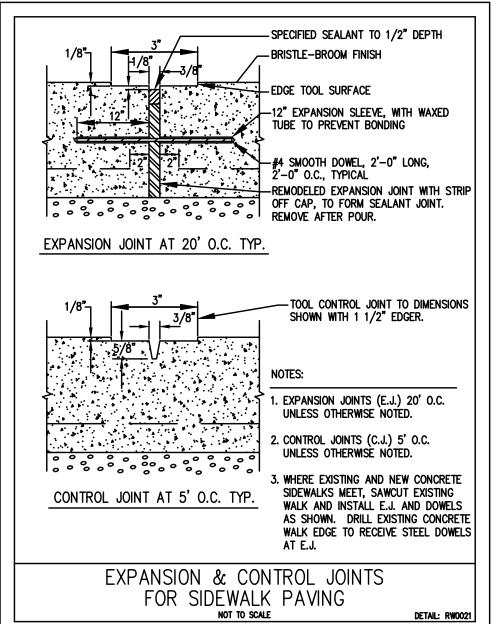


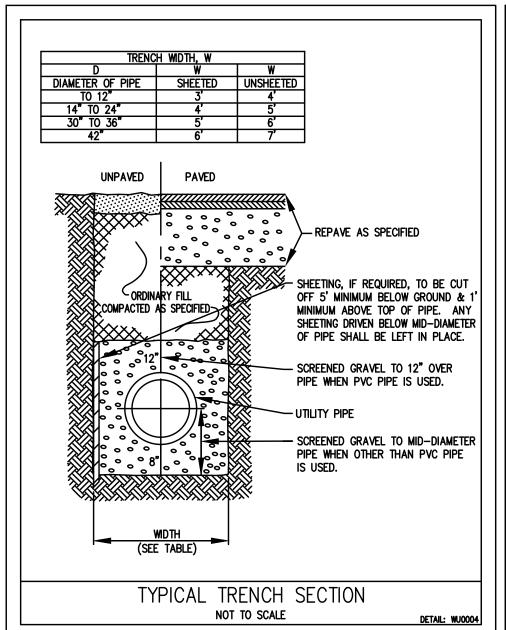


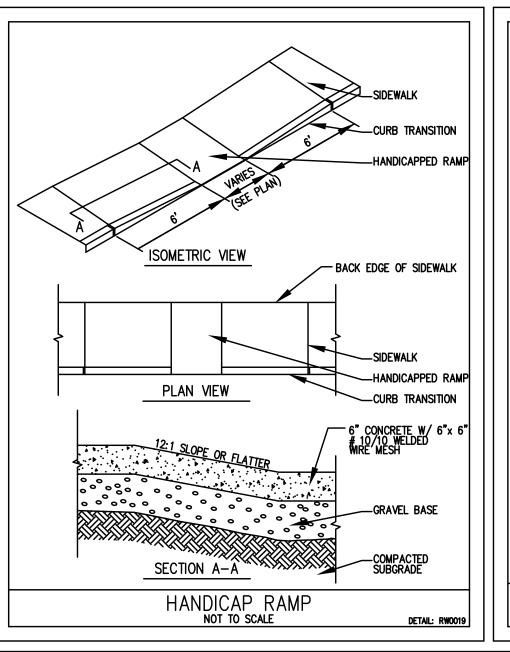


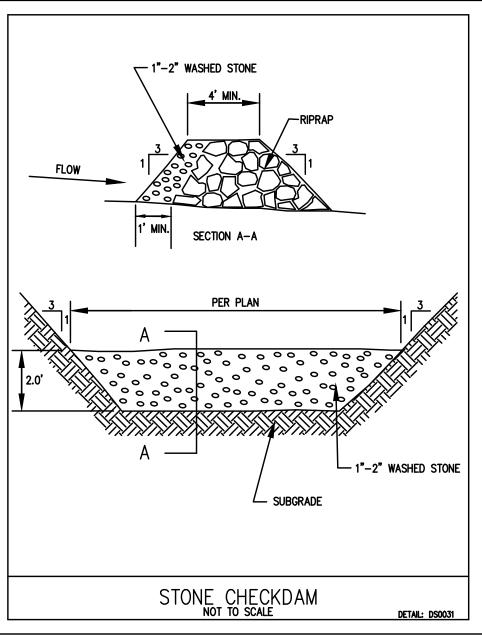


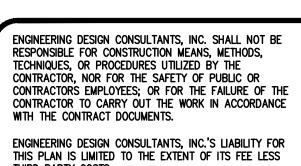


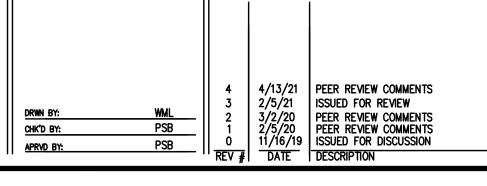


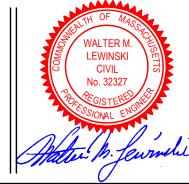


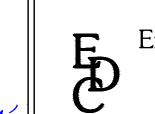












PREPARED BY:

Engineering Design Consultants, Inc. Turnpike Road Southborough, Massachusetts

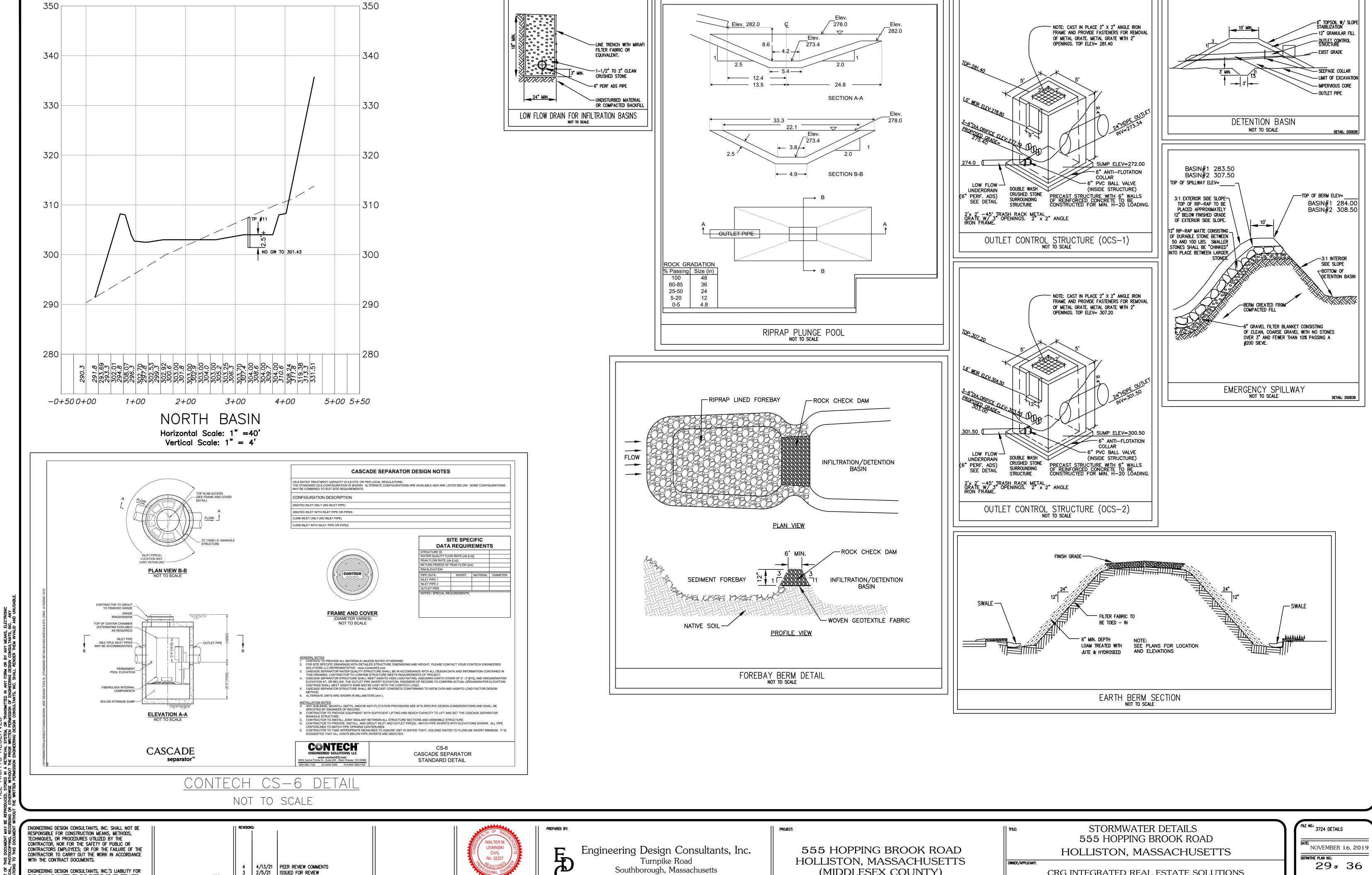
ph:(508)480-0225 fax:(800)832-5781

555 HOPPING BROOK ROAD HOLLISTON, MASSACHUSETTS (MIDDLESEX COUNTY)

CONSTRUCTION DETAILS 555 HOPPING BROOK ROAD HOLLISTON, MASSACHUSETTS

CRG INTEGRATED REAL ESTATE SOLUTIONS 200 Barr Harbor Drive Conshohocken, PA 19248

FILE NO.: 3724 DETAILS NOVEMBER 16, 2019 28 ° 36 28



ph:(508)480-0225 fax:(800)832-5781

(MIDDLESEX COUNTY)

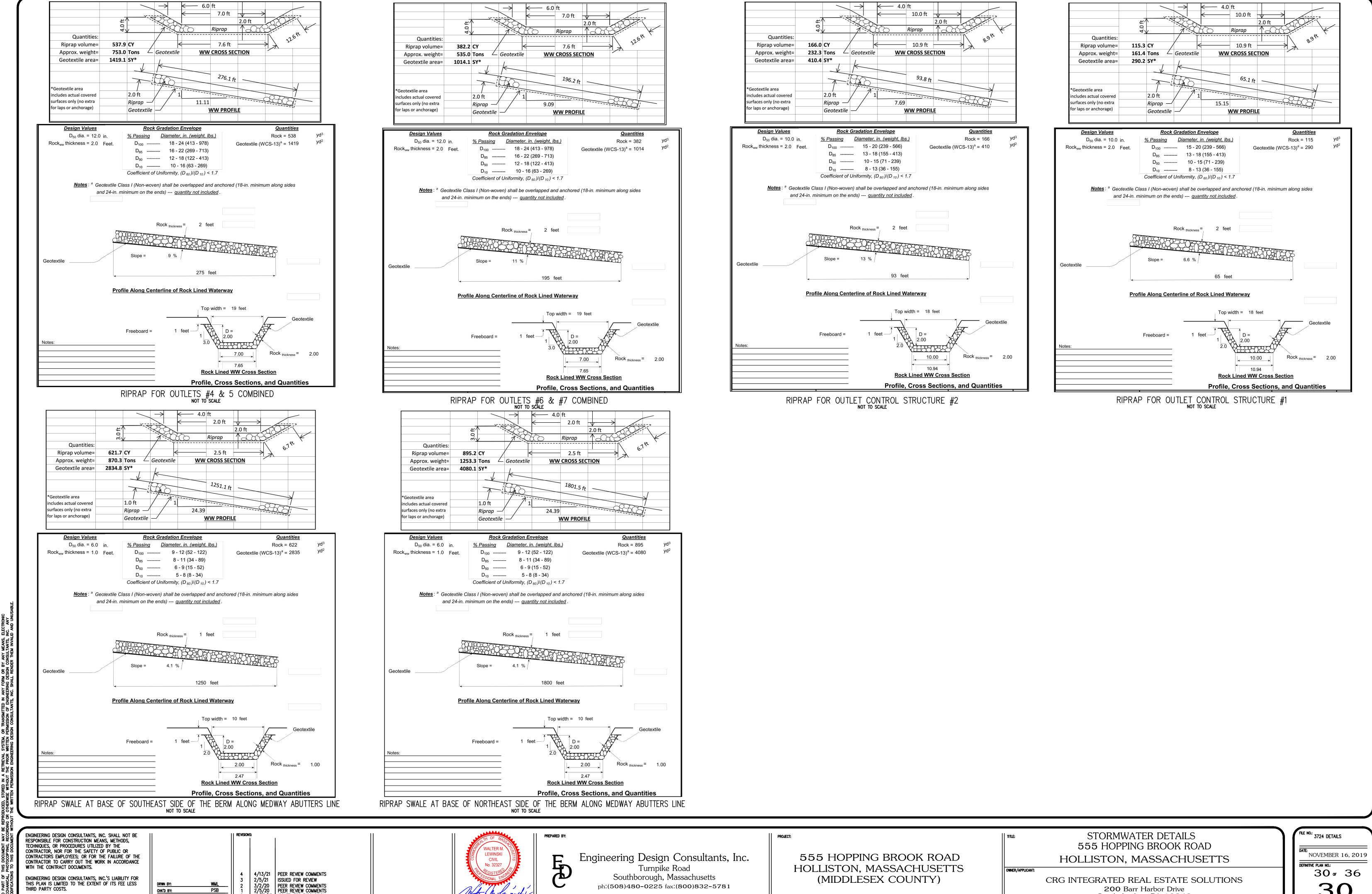
CRG INTEGRATED REAL ESTATE SOLUTIONS

200 Barr Harbor Drive Conshohocken, PA 19248

ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COSTS.

CHK'D BY: APRVD BY: 2/5/21 ISSUED FOR REVIEW

3/2/20 PEER REVIEW COMMENTS 2/5/20 PEER REVIEW COMMENTS 11/16/19 ISSUED FOR DISCUSSION

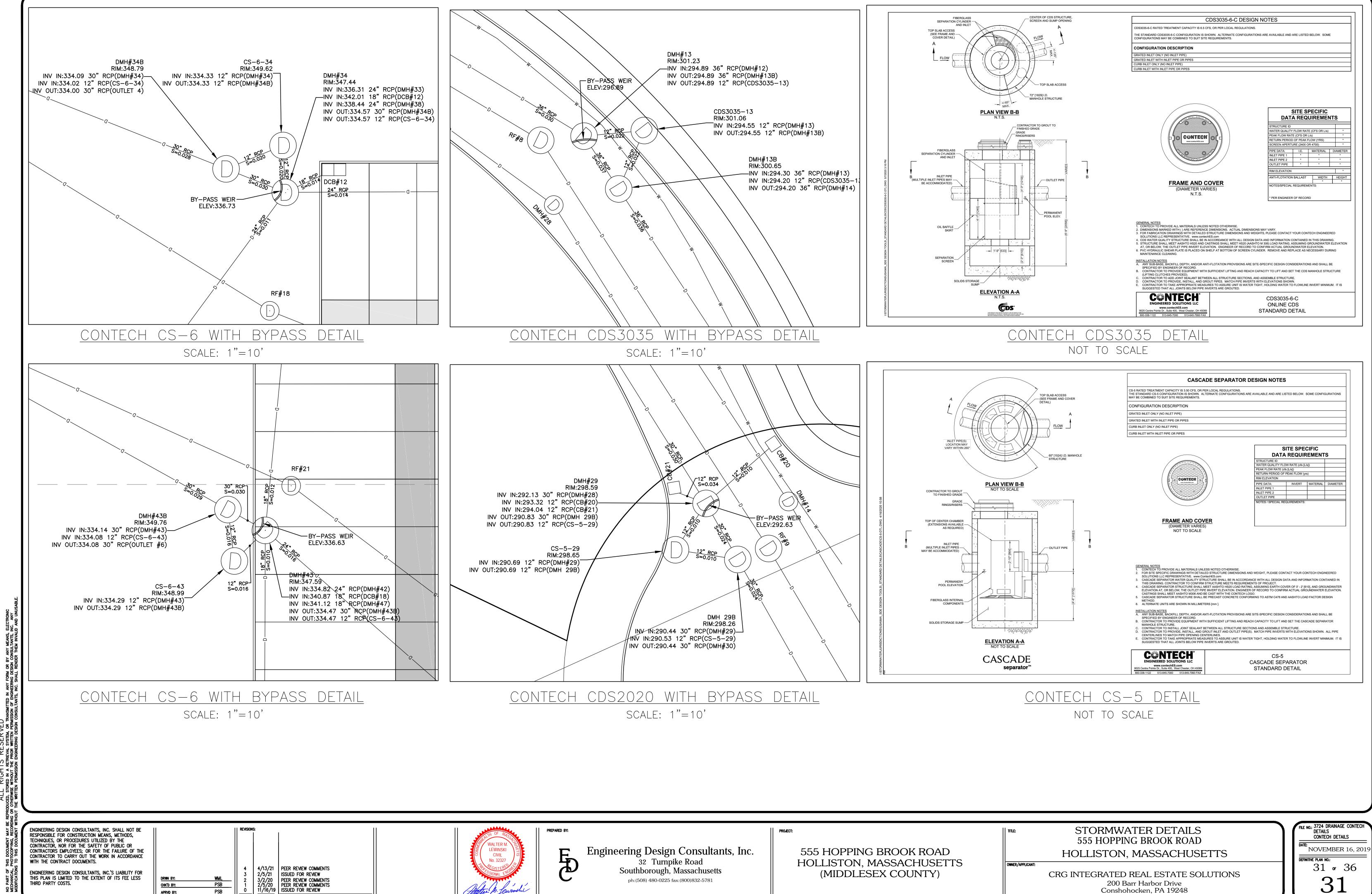


0 11/16/19 ISSUED FOR DISCUSSION

REV # DATE DESCRIPTION

APRVD BY:

Conshohocken, PA 19248



200 Barr Harbor Drive Conshohocken, PA 19248

CHK'D BY:

APRVD BY:

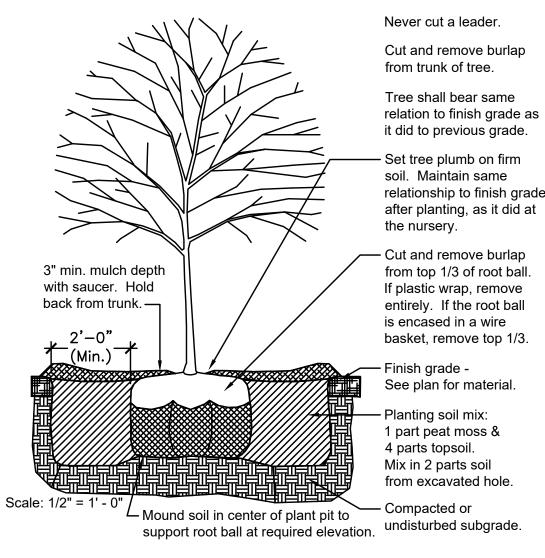
11/16/19 ISSUED FOR REVIEW

P-Evrgrn Tree wo notes.dwg

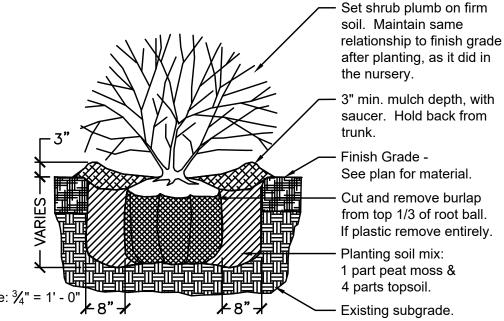
TYP. EVERGREEN TREE PLANTING

PLANTING NOTES:

- 1. Trees & shrubs shall be uniform, full & bushy, and well branched specimen plants. All plants approved by Landscape Architect.
- 2. Plants shall be balled and burlapped or container grown.
- 3. Plants to conform to the requirements established in the 'American Standards For Nursery Stock', latest edition. 4. Plant beds to receive 3-inch minimum depth of shredded bark
- mulch. Contractor to submit bark samples for approval 5. Edge of plant beds shall be a maximum of 12-inches from edge
- 6. Plant materials shall be guaranteed for 1-year after installation.
- 7. Plant materials to be field located & approved by the Land. Architect. 8. Planting beds at perennial locations to have a 6-in. min. depth of loam.
- Loam at trees, shrubs, and ornamental grass locations to be depth of root ball
- 11. Loam (6" minimum depth) and seed all disturbed areas not noted to receive other treatment.
- 12. Plant substitutions allowed based on best availability of nursery stock, with all substitutions to be approved by the Design Engineer.



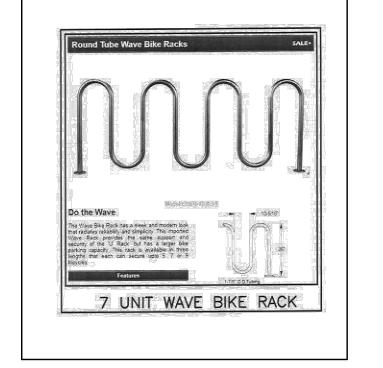
TYP. DECIDUOUS TREE PLANTING Scale: 1/2" = 1' - 0" P-Tree wo notes.dwg

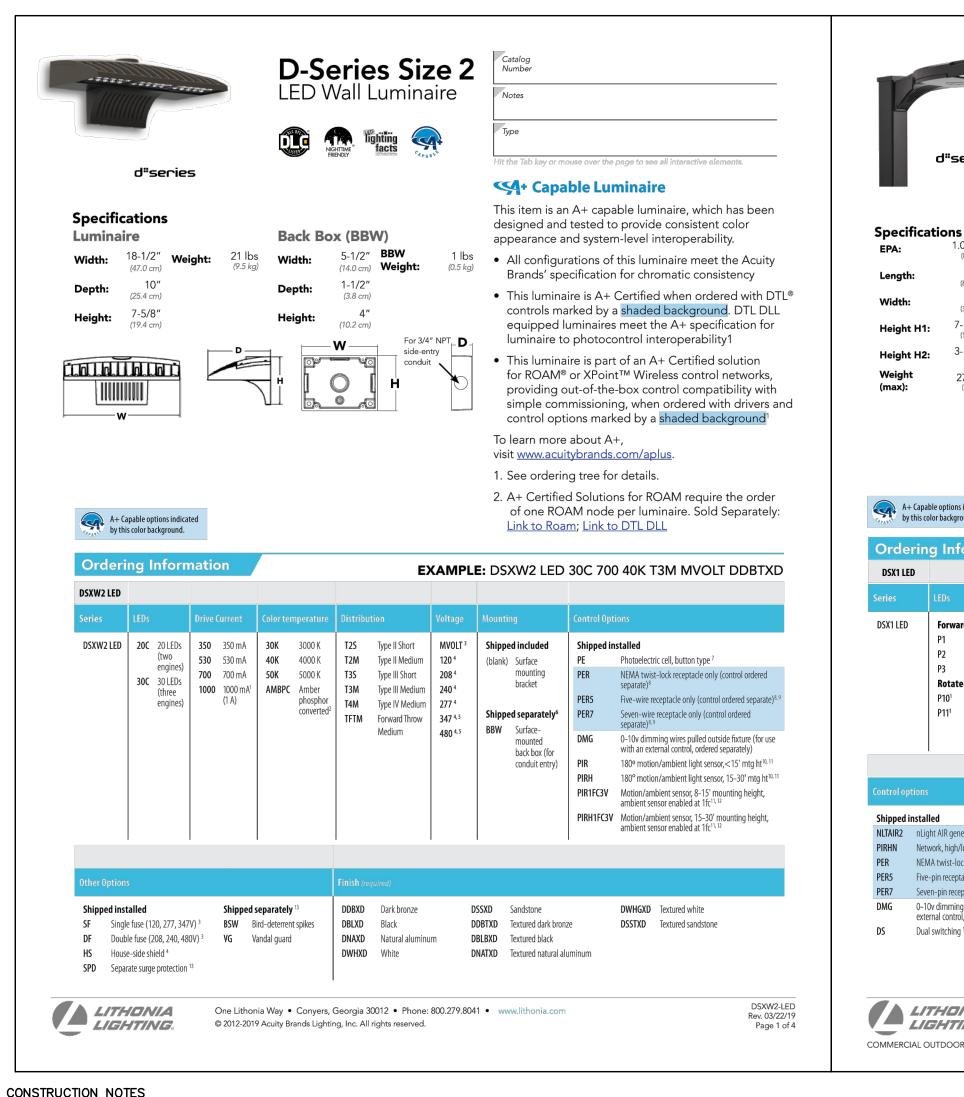


1. New shrub beds to have a minimum of one foot planting soil









1. THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER THOSE SHOWN ON THESE PLANS. ANY PROPOSED REVISIONS TO THE WORK, IF REQUIRED BY THESE SITE CONDITIONS, SHALL NOT BE UNDERTAKEN UNTIL REVIEWED BY THE OWNER AND THE

2. THE CONTRACTOR SHALL NOTIFY THE RELEVANT TOWN DEPARTMENTS AT LEAST 48 HOURS IN ADVANCE OF ANY REQUIRED

- 3. IN ORDER TO PROTECT THE PUBLIC SAFETY DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING AT ALL TIMES NECESSARY SAFETY DEVICES AND PERSONNEL, WARNING LIGHTS, BARRICADES, AND POLICE DETAILS.
- 4. THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE LOOSE CONSTRUCTION.
- 5. 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 HAY BALE DIKES ALONG THE PERIMETER OF CUTS AND FILLS, MULCHING, AND PLANTING OF DISTURBED AREAS AS SOON AS PRACTICABLE.
- 6. AT THE END OF CONSTRUCTION THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIALS FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED.
- 7. AT THE END OF CONSTRUCTION, AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE CONTRACTOR SHALL CLEAN THE SUMPS OF ALL CATCH BASINS AND THE INVERTS OF ALL DRAIN.
- 8. 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 IS TO CONTACT DIG SAFE AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. DIG SAFE TELEPHONE NUMBER IS 811.
- 9. THE CONTRACTOR IS TO VERIFY THE LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES PRIOR TO TAPPING INTO , CROSSING OR EXTENDING THEM. IF THE PROPOSED WORK POSES A CONFLICT WITH THE EXISTING UTILITIES, THE ENGINEER IS TO BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.
- 10. ALL REINFORCED CONCRETE PIPE IS TO BE CLASS III WHEN GREATER THAN 36" OF COVER EXISTS. LESS THAN 36" SHALL BE CLASS V RCP. ALL PVC SANITARY SEWER IS TO BE SDR 35 WITH RUBBER RING JOINTS. ALL PVC STORM DRAIN (PERFORATED OR SOLID) SHALL BE SDR 35, ADS TYPE N12 POLYETHYLENE PIPE OR APPROVED EQUAL; EXCEPT FOR ROOF DRAINS WHICH SHALL BE DUCTILE IRON. WATER MAIN IS TO BE CLASS 52 CEMENT LINED DUCTILE IRON.

11. THE TOWN OF HOLLISTON DEPARTMENT OF PUBLIC WORKS IS TO BE NOTIFIED PRIOR TO THE START OF WORK ON HOPPING BROOK

Shipped installed

NLTAIR2 nLight AIR generation 2 enabled 7

DS Dual switching 12,13,14

LITHONIA

LIGHTING.

PIRHN Network, high/low motion/ambient sensor 8

PER NFMA twist-lock receptacle only (controls ordered separ

PER5 Five-pin receptacle only (controls ordered separate) 9,10

external control, ordered separately) 11

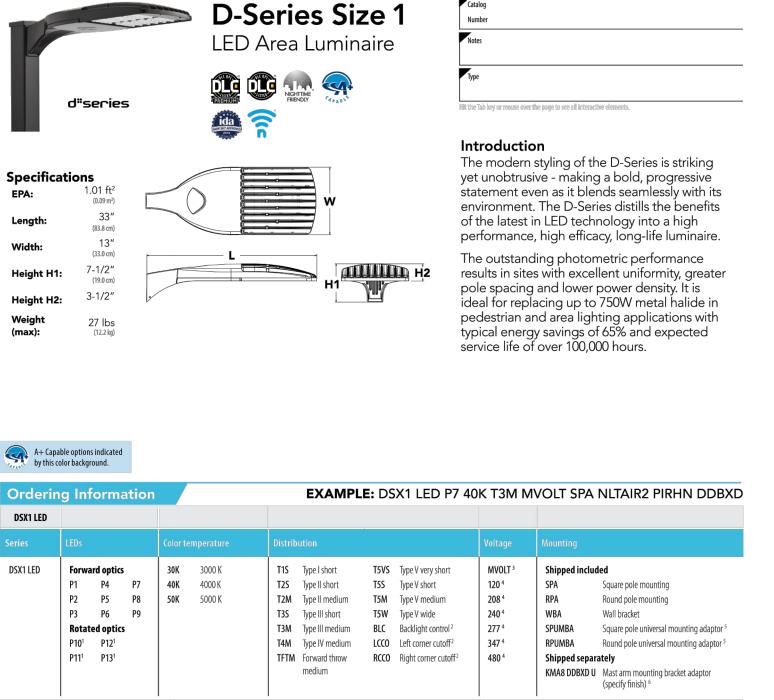
PER7 Seven-pin receptacle only (controls ordered separate) 9,10

0–10v dimming wires pulled outside fixture (for use with an

- 12. PAVEMENT AREAS SHALL HAVE 12 INCHES OF GOOD, CLEAN BANK-RUN GRAVEL, CONFORMING TO MDPW M1.03.1, WITH NO STONES LARGER THAN 3" 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.
- 13. STANDARD PAVEMENT AREAS SHALL BE PAVED TO A THICKNESS OF 4" MEASURED AFTER COMPACTION, WITH A 2" BINDER COURSE AND 2" TOP COURSE OF CLASS I BITUMINOUS CONCRETE PAVEMENT, TYPE I-1.
- 14. HEAVY DUTY PAVEMENT AREAS SHALL BE PAVED TO A THICKNESS OF 6" MEASURED AFTER COMPACTION, WITH A 4" BINDER COURSE AND 2" TOP COURSE OF CLASS I BITUMINOUS CONCRETE
- 15. THE AGGREGATE SHALL BE COMPOSED, MIXED AND LAID HOT IN TWO COURSES AS SPECIFIED IN THE "COMMONWEALTH OF MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES", 1988 EDITION SECTION 460 FOR CLASS I BITUMINOUS CONCRETE PAVEMENT, AS SPECIFICALLY SET FORTH IN SECTION 460.20 AND 460.82.
- 16. ANY EXISTING PAVEMENT REMOVED FOR UTILITY TRENCH EXCAVATION OUTSIDE "LIMIT OF WORK" AREAS OR OTHERWISE DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED WITH A FULL DEPTH OF PAVEMENT SECTION AS SHOWN ON THE TRENCH
- 17. EROSION CONTROL GRASS MIXTURE (SIDE SLOPE GREATER THAN 4 HORIZONTAL TO 1 VERTICAL) FOLLOWING COMPLETION OF GRADING.

TYPE OF SEED CREEPING RED FESCUE TALL FESCUE WHITE DUTCH CLOVER

- MINIMUM OF 4" OF TOP SOIL SPREAD EVENLY THROUGHOUT. PROVIDE EROSION CONTROL MEASURES AS NECESSARY TO PROVIDE SLOPE STABILITY UNTIL VEGETATION IS ESTABLISHED.
- 19. ALL STUMPS, TOP SOIL, SUB SOIL AND OTHER DELETERIOUS MATERIALS ARE TO BE REMOVED FROM THE PROPOSED BUILDING AND PAVING AREAS.



High/low, motion/ambient sensor, 8–15' mounting height, ambient sensor enabled at 5fc 15,16

High/low, motion/ambient sensor, 15-30' mounting height,

PIR1FC3V High/low, motion/ambient sensor, 8–15' mounting height,

PIRH1FC3V Bi-level, motion/ambient sensor, 15-30' mounting height,

ambient sensor enabled at 1fc 15,

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Field adjustable output 14

Shipped installed

HS House-side shield 17

L90 Left rotated optics R90 Right rotated optics 1

Shipped separately

EGS External glare shield 18

BS Bird spikes 18

SF Single fuse (120, 277, 347V) 4

DF Double fuse (208, 240, 480V) 4

DDBXD Dark bronze

DNAXD Natural aluminum

DDBTXD Textured dark bronze

DBLBXD Textured black

DNATXD Textured natural

DWHGXD Textured white

aluminum

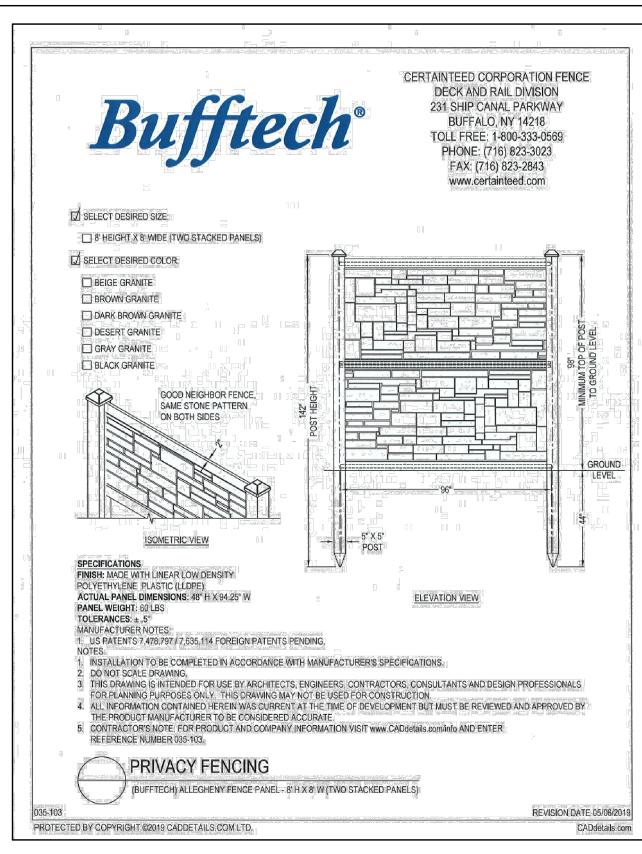
DSX1-LED

Rev. 11/25/19

Page 1 of 8

DBLXD Black

DWHXD White



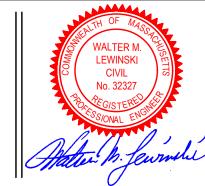
TO BE PLACED ON TOP OF EARTH BERM

ENGINEERING DESIGN CONSULTANTS, INC. SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTORS EMPLOYEES; OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR

THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS

CHK'D BY: APRVD BY:

₹/13/21 | PEER REVIEW COMMENTS 2/5/21 ISSUED FOR REVIEW PEER REVIEW COMMENTS PEER REVIEW COMMENTS 11/16/19 Issued for discussion REV # DATE DESCRIPTION



Engineering Design Consultants, Inc. Turnpike Road Southborough, Massachusetts ph:(508)480-0225 fax:(800)832-5781

555 HOPPING BROOK ROAD HOLLISTON, MASSACHUSETTS (MIDDLESEX COUNTY)

LANDSCAPE & LIGHTING DETAILS 555 HOPPING BROOK ROAD HOLLISTON, MASSACHUSETTS

CRG INTEGRATED REAL ESTATE SOLUTIONS

Conshohocken, PA 19248

E NO.: 3724 DETAILS NOVEMBER 16, 2019 EFINITIVE PLAN NO.: 32 · 36

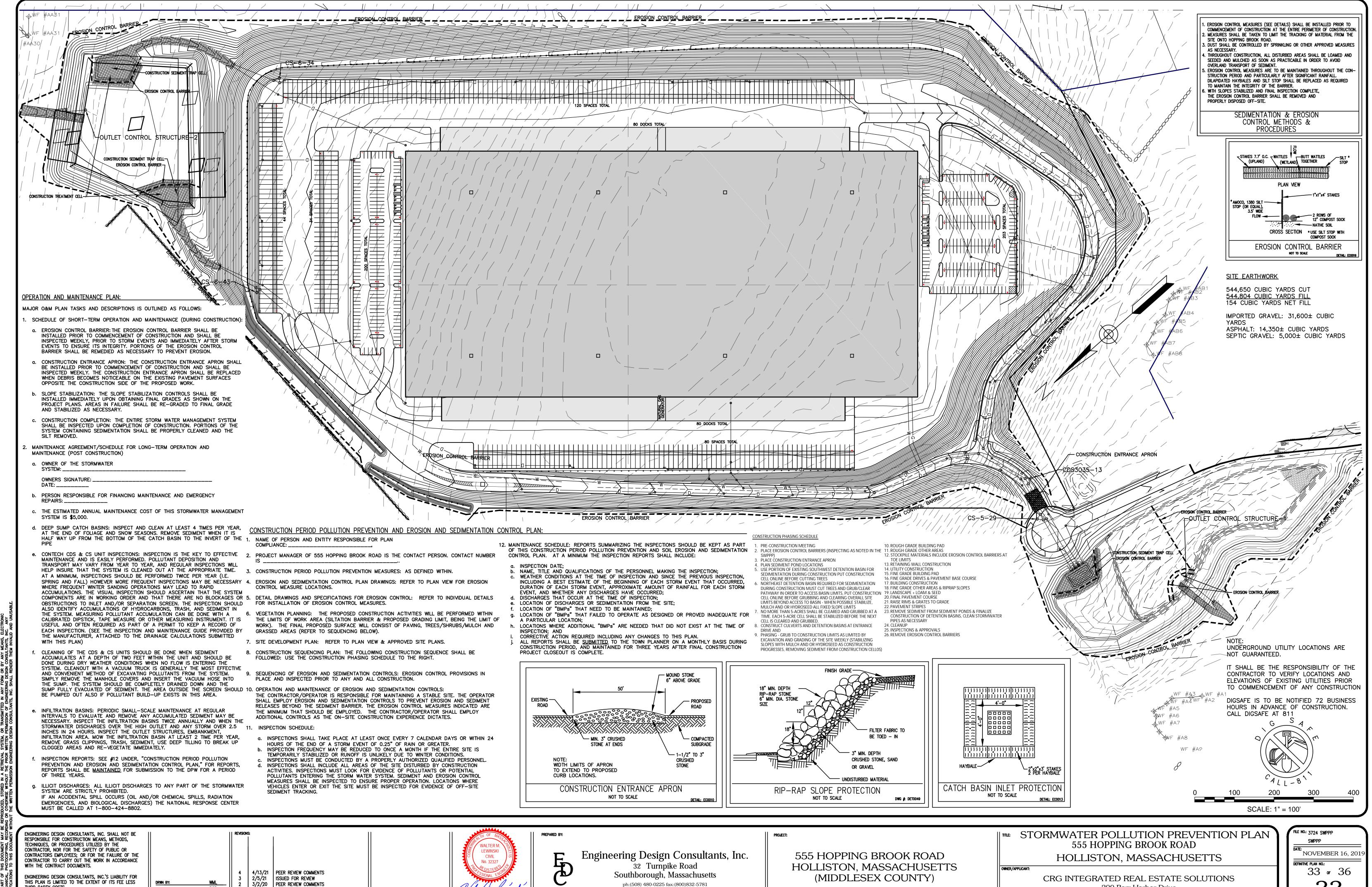
OWNER/APPLICANT:

SEED AT THE RATE OF 2#/2,000 SF USE THE ABOVE MIX AT THE RATE OF 50#/ACRE AND WITH 1/2 BUSHEL/ACRE OF WINTER RYE 18. ALL DISTURBED AREAS ARE TO BE LOAMED AND SEEDED WITH A

PATCHING DETAIL INDICATED HEREON.

THE FOLLOWING SEED MIX SHALL BE APPLIED: % BY WEIGHT

200 Barr Harbor Drive



THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COSTS.

CHK'D BY: APRVD BY:

PEER REVIEW COMMENTS
PEER REVIEW COMMENTS 11/16/19 ISSUED FOR REVIEW REV # DATE DESCRIPTION

200 Barr Harbor Drive Conshohocken, PA 19248

