

# GREEN MEADOW ELEMENTARY SCHOOL

## EARLY SITE PREPARATION PACKAGE



### 5 TIGER DRIVE MAYNARD, MASSACHUSETTS EARLY SITE PREPARATION

#### DRAWING LIST

| GENERAL    |                        |
|------------|------------------------|
| A0.00      | COVER SHEET            |
| CIVIL      |                        |
| EX-1       | SITE SURVEY PLAN       |
| EX-2       | SITE SURVEY PLAN       |
| EX-3       | SITE SURVEY PLAN       |
| EX-4       | SITE SURVEY PLAN       |
| C-00       | OVERALL PLAN           |
| C-01.1     | DEMO PLAN              |
| C-01.2     | DEMO PLAN              |
| C-01.3     | DEMO PLAN              |
| C-01.4     | DEMO PLAN              |
| C-02.1     | SITE PREPARATION PLAN  |
| C-02.2     | SITE PREPARATION PLAN  |
| C-02.3     | SITE PREPARATION PLAN  |
| C-02.4     | SITE PREPARATION PLAN  |
| C-03.1     | DETAILS                |
| C-03.2     | DETAILS                |
| GEOTHERMAL |                        |
| GT-100     | OVERALL BOREFIELD PLAN |
| GT-200     | GEOTHERMAL DETAILS I   |
| GT-201     | GEOTHERMAL DETAILS II  |

**OWNER**  
TOWN OF MAYNARD  
MAYNARD PUBLIC SCHOOLS



Massachusetts School Building Authority  
Funding Affordable, Sustainable, and Efficient Schools in Partnership with Local Communities

40 BROAD STREET  
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**OWNERS PROJECT MANAGER**



COLLIERS PROJECT LEADERS  
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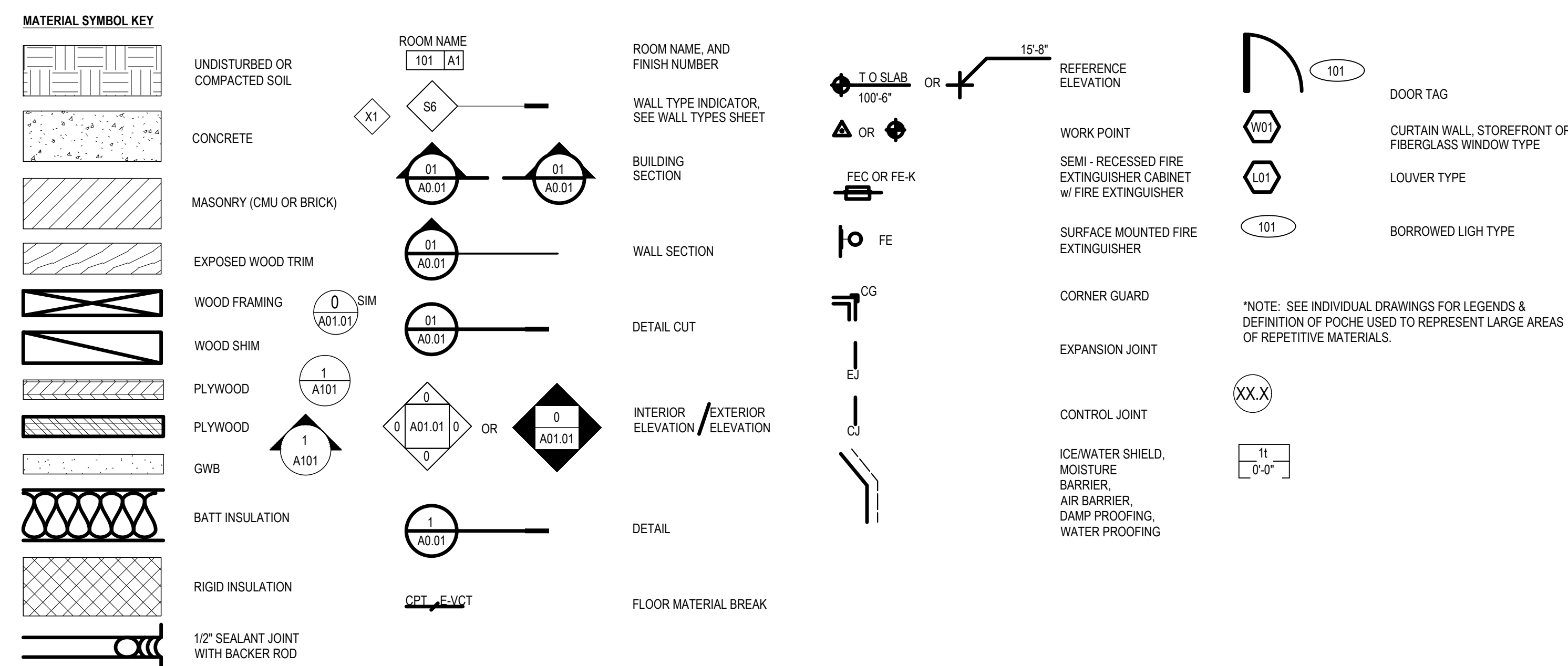
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(617) 452-6000

**SYMBOLS**



**ABBREVIATIONS**

|   |  |  |   |
|---|--|--|---|
| <b>@</b> ANCHOR BOLT<br><b>AB</b> ACoust<br><b>ACP</b> ACoustICAL ACCESS PANEL<br><b>ACT</b> ACoustICAL CEILING TILE<br><b>AD</b> AREA DRAWN<br><b>ADO</b> AUTO DOOR OPENER<br><b>ADJ</b> ADJUSTABLE<br><b>AED</b> AUTOMATIC EMERGENCY DEFIBRILLATOR/CABINET<br><b>AFE</b> ABOVE FINISH FLOOR<br><b>ALUM</b> ALUMINUM<br><b>ANDD</b> ANODIZED DRAINAGE DRAINAGE<br><b>ASPH</b> ASPHALT<br><b>ASSY</b> ASSEMBLY<br><b>ATTACH</b> ATTACHMENT<br><b>ALT</b> ALTERNATE<br><b>BD OR BRD</b> BOARD<br><b>BF</b> BARRIER FREE<br><b>BITUM</b> BITUMINOUS<br><b>BLDG</b> BUILDING<br><b>BLKG</b> BLOCKING<br><b>BM</b> BEAM<br><b>BO</b> BOTTOM OF<br><b>BOD</b> BOTTOM OF DECK<br><b>BOTT</b> BOTTOM<br><b>BTWN</b> BETWEEN<br><b>CB</b> CATCH BASIN<br><b>CEM</b> CEMENT<br><b>CFM</b> COLD FORM METAL FRAMING<br><b>CG</b> CORNER GUARD (SS)<br><b>CJ</b> CONTROL JOINT<br><b>CLG</b> CEILING<br><b>CMU</b> CONCRETE MASONRY UNIT<br><b>CO</b> CLEAN OUT<br><b>COL</b> COLUMN<br><b>CONC</b> CONCRETE<br><b>CORR</b> CORRIDOR<br><b>CL</b> CENTER LINE<br><b>CLR</b> CLEAR<br><b>CONN</b> CONNECT<br><b>CONT</b> CONTINUOUS<br><b>CP</b> CEMENT PLASTER<br><b>CPT</b> CARPET<br><b>CSK</b> COUNTERSINK<br><b>CT</b> CERAMIC TILE<br><b>CW</b> CURTAINWALL<br><b>D</b> DRYER<br><b>DBL</b> DOUBLE<br><b>DEMO</b> DEMOLISH<br><b>DF</b> DRINKING FOUNTAIN<br><b>DA Ø</b> DIAMETER<br><b>DN</b> DOWN<br><b>DO</b> DITTO OR REPEAT ADJACENT ELEMENT<br><b>DR</b> DOWNPOUT<br><b>DS</b> DOWNSPOUT<br><b>DWGS</b> DRAWINGS | <b>EA</b> EACH<br><b>EIFS</b> EXTERIOR INSULATION FINISH SYSTEM<br><b>EJ</b> EXPANSION JOINT<br><b>ELECT</b> ELECTRICAL<br><b>ELEV OR EL</b> ELEVATION<br><b>EMER</b> EMERGENCY<br><b>EMBED</b> EMBEDMENT<br><b>EN</b> ENAMEL<br><b>ENL</b> ENLARGED<br><b>EPS</b> EXPANDED POLYSTYRENE<br><b>EQ</b> EQUAL<br><b>EQUIP</b> EQUIPMENT<br><b>EXP</b> EXPANSION<br><b>EXIST OR (E)</b> EXISTING<br><b>EXT</b> EXTERIOR<br><b>EXTR</b> EXTRUDED<br><b>FB</b> FLOOR BOX<br><b>FD</b> FLOOR DRAIN<br><b>FE</b> FIRE EXTINGUISHER - SEE SYMBOLS<br><b>FE-K</b> FIRE EXTINGUISHER - KITCHEN TYPE - SEE SYMBOLS<br><b>FEC</b> FIRE EXTINGUISHER CABINET - SEE SYMBOLS<br><b>FF</b> FACTORY FINISH<br><b>FH</b> FIRE HYDRANT<br><b>FIN</b> FINISHED<br><b>FLSH(G)</b> FLASHING<br><b>FLR</b> FLOOR<br><b>FMI</b> FACTORY MUTUAL<br><b>FOIC</b> FURNISHED BY CONTRACTOR INSTALLED BY CONTRACTOR<br><b>FOIC</b> FURNISHED BY OWNER INSTALLED BY CONTRACTOR<br><b>FOIO</b> FURNISHED BY OWNER INSTALLED BY OWNER<br><b>FOM</b> FACE OF MASONRY<br><b>FO</b> FACE OF<br><b>FOB</b> FACE OF BRICK<br><b>FOMU</b> FACE OF CMU<br><b>FP</b> FIREPLACE<br><b>FRMG</b> FRAMING<br><b>FRP</b> FIBERGLASS REINFORCED PANEL(S)<br><b>FT</b> FOOT OR FEET<br><b>FTR</b> FIN TUBE RADIATION<br><b>GA</b> GAUGE<br><b>GALV</b> GALVANIZED<br><b>GL</b> GLASS<br><b>GLB</b> GLUE LAMINATED BEAM<br><b>GWB</b> GYPSUM WALL BOARD<br><b>GYP</b> GYPSUM<br><b>HBRD</b> HARDBOARD<br><b>HC</b> HANDICAP<br><b>HD</b> HOOD<br><b>HDW</b> HARDWARE<br><b>HGT</b> HEIGHT<br><b>HM</b> HOLLOW METAL<br><b>HORIZ</b> HORIZONTAL<br><b>HR</b> HOUR<br><b>ID</b> INSIDE DIAMETER<br><b>IE</b> INVERT ELEVATION<br><b>INT</b> INTERIOR<br><b>IPF</b> INTERACTIVE FLAT PANEL<br><b>INSUL</b> INSULATION<br><b>INSTALL OR INS</b> INSTALLATION<br><b>JAN</b> JANITOR<br><b>JT</b> JOINT<br><b>L</b> LAMINATE<br><b>LAM</b> LAMINATE<br><b>LB OR #</b> POUND<br><b>LOC</b> LONG LEG HORIZONTAL<br><b>LV</b> LONG LEG VERTICAL | <b>MATL</b> MATERIAL<br><b>MAX</b> MAXIMUM<br><b>ME</b> MACHINE BOLT<br><b>MECH</b> MECHANICAL<br><b>MEP OR MEP</b> MECHANICAL ELECTRICAL AND PLUMBING<br><b>MFR</b> MANUFACTURER<br><b>MH</b> MANHOLE<br><b>MB</b> MOISTURE INFILTRATION BARRIER<br><b>MICRO</b> MICROWAVE<br><b>MIN</b> MINIMUM<br><b>MOLDG</b> MOLDING<br><b>MTL</b> METAL<br><b>NATL</b> NATURAL<br><b>NC</b> NONCOMBUSTIBLE<br><b>NIT</b> NOT IN CONTRACT<br><b>NO</b> NUMBER<br><b>NP</b> NO PAINT<br><b>NR</b> NOT RATED<br><b>NOM</b> NOMINAL<br><b>NTS</b> NOT TO SCALE<br><b>OC</b> ON CENTER<br><b>OD</b> OUTSIDE DIAMETER<br><b>ODC</b> OVERFLOW DRAIN CAP<br><b>OVERSAD</b> OVERSIZING<br><b>OPER</b> OPERABLE<br><b>OPP</b> OPPOSITE HAND<br><b>OPNG</b> OPENING<br><b>OTS</b> OPEN TO STRUCTURE-PAINT TYP<br><b>OTA</b> OPEN TO ABOVE<br><b>OVHG</b> OVERHANG<br><b>PART</b> PART<br><b>PERF</b> PERFORATED<br><b>PFMU</b> POLISHED FINISH MASONRY UNIT<br><b>PI</b> POST INDICATOR<br><b>PJSC</b> PROJECTION SCREEN<br><b>PL</b> PLATE<br><b>PLAM</b> PLASTIC LAMINATE<br><b>PLAS</b> PLASTER<br><b>PNL</b> PANEL<br><b>PNNT</b> PAINT<br><b>POLY</b> POLYURETHANE<br><b>PROT</b> PROTECTION<br><b>PSI</b> POUND PER SQUARE INCH<br><b>PT</b> PRESSURE TREATED<br><b>PTN</b> PARTITION<br><b>PVC</b> POLYVINYL CHLORIDE<br><b>PV OR PLYWD</b> PLYWOOD<br><b>QU</b> QUARRY TILE<br><b>RCP</b> REFLECTED CEILING PLAN<br><b>RAD</b> RADIUS<br><b>RD</b> ROOF DRAIN<br><b>REF</b> REFER TO<br><b>REFR</b> REFRIGERATOR<br><b>RES</b> RESILIENT FLOORING<br><b>REDD</b> REQUIRED<br><b>RM</b> ROOM<br><b>RUB</b> RUBBER FLOORING<br><b>RWL</b> RAIN WATER LEADER<br><b>SAC</b> SUSPENDED ACoustICAL CEILING<br><b>SAM</b> SELF ADHERED MEMBRANE<br><b>SCHED</b> SCHEDULE | <b>SC</b> SOLID CORE<br><b>SD</b> SMOKE DETECTOR<br><b>SEC</b> SECURITY<br><b>SF</b> STOREFRONT<br><b>SG</b> STEEL CORNER GUARD<br><b>SHT</b> SHEATHING<br><b>SHT</b> SHEET<br><b>SHM</b> SECURITY HOLLOW METAL<br><b>SIM</b> SIMILAR<br><b>SPEC</b> SPECIFICATION<br><b>SPK</b> SPEAKER<br><b>SQ</b> SQUARE<br><b>SS OR SS</b> STAINLESS STEEL<br><b>STC</b> SOUND TRANSMISSION COEFFICIENT<br><b>STD</b> STANDARD<br><b>STL</b> STEEL<br><b>STOR</b> STORAGE<br><b>STRUCT</b> STRUCTURAL<br><b>SUSP</b> SUSPENDED<br><b>SV</b> SLEEVE<br><b>T &amp; G</b> TONGUE & GROOVE<br><b>TERM</b> TERMINATION<br><b>THRESH</b> THRESHOLD<br><b>TO</b> TOP OF<br><b>TOS</b> TOP OF SLAB<br><b>TREATED</b> TREATED<br><b>TRTD</b> TYPICAL<br><b>TRT</b> TUBE STEEL<br><b>UL</b> UNDERWRITERS LABORATORY<br><b>UNO</b> UNLESS NOTED OTHERWISE<br><b>UNDER</b> UNDER<br><b>VCT</b> VINYL COMPOSITION TILE<br><b>VIF</b> VERIFY IN FIELD<br><b>VPLAS</b> VENEER PLASTER<br><b>VERT</b> VERTICAL<br><b>VWC</b> VINYL WALL COVERING<br><b>WV</b> WASHING MACHINE<br><b>WI</b> WITH<br><b>WB</b> WHITE BOARD<br><b>WC</b> WATER CLOSET<br><b>WFLG</b> WIDE FLANGE<br><b>WFD</b> WINDOW<br><b>WOD</b> WINDOW<br><b>WHS</b> WELDED HEAD STUD<br><b>WIM</b> WALK OFF MAT<br><b>WIP</b> WALL PAD<br><b>WR</b> WATER RESISTANT<br><b>WRF</b> WELDED WIRE FABRIC |
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**PROJECT PHASE**  
BID SET

**PROJECT NUMBER**

**OWNER / PROJECT NAME / LOCATION**  
TOWN OF MAYNARD  
GREEN MEADOW  
ELEMENTARY SCHOOL  
EARLY SITE  
PREPARATION  
PACKAGE  
5 TIGER DRIVE  
MAYNARD, MA 01754

**DRAWING TITLE**  
COVER SHEET



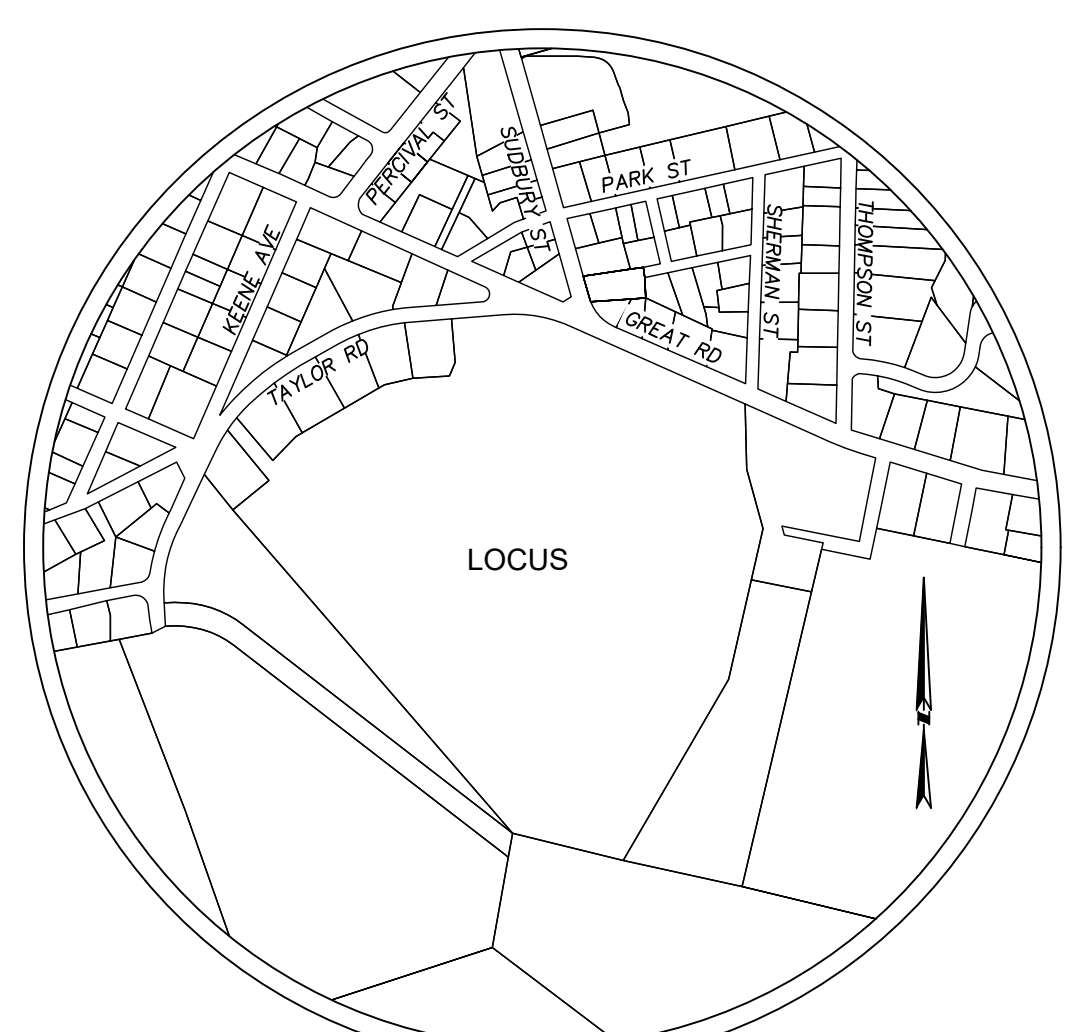
264 Exchange Street,  
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413 592 9700 T  
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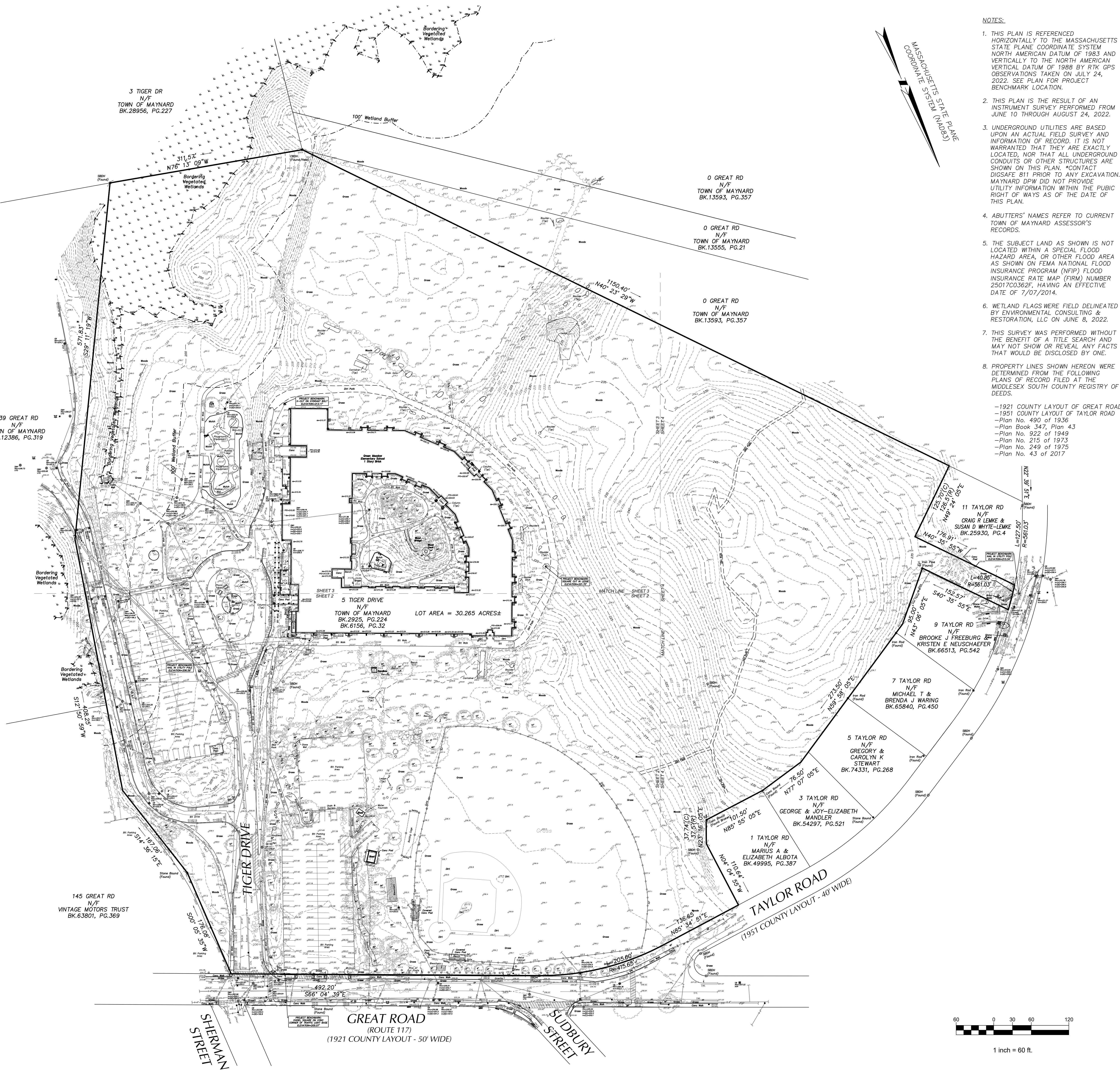
**DRAWING INFORMATION**  
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CHECKED CSL  
MAY 22, 2024

**DRAWING NUMBER**  
A0.00

ORIGINAL SHEETS 30" x 42" copyright 2018 all rights reserved



LOCUS MAP  
not to scale



- NOTES:
1. THIS PLAN IS REFERENCED HORIZONTALLY TO THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 AND VERTICALLY TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 BY RTK GPS OBSERVATIONS TAKEN ON JULY 24, 2022. SEE PLAN FOR PROJECT BENCHMARK LOCATION.
  2. THIS PLAN IS THE RESULT OF AN INSTRUMENT SURVEY PERFORMED FROM JUNE 10 THROUGH AUGUST 24, 2022.
  3. UNDERGROUND UTILITIES ARE BASED UPON AN ACTUAL FIELD SURVEY AND INFORMATION OF RECORD. IT IS NOT WARRANTED THAT THEY ARE EXACTLY LOCATED, NOR THAT ALL UNDERGROUND CONDUITS OR OTHER STRUCTURES ARE SHOWN ON THIS PLAN. \*CONTACT DIGSAFE 811 PRIOR TO ANY EXCAVATION. MAYNARD DPW DID NOT PROVIDE UTILITY INFORMATION WITHIN THE PUBLIC RIGHT OF WAYS AS OF THE DATE OF THIS PLAN.
  4. ABUTTERS' NAMES REFER TO CURRENT TOWN OF MAYNARD ASSESSOR'S RECORDS.
  5. THE SUBJECT LAND AS SHOWN IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA, OR OTHER FLOOD AREA AS SHOWN ON FEMA NATIONAL FLOOD INSURANCE RATE MAP (FIRM) NUMBER 2501700362F, HAVING AN EFFECTIVE DATE OF 7/07/2014.
  6. WETLAND FLAGS WERE FIELD DELINEATED BY ENVIRONMENTAL CONSULTING & RESTORATION, LLC ON JUNE 8, 2022.
  7. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE SEARCH AND MAY NOT SHOW OR REVEAL ANY FACTS THAT WOULD BE DISCLOSED BY ONE.
  8. PROPERTY LINES SHOWN HEREON WERE DETERMINED FROM THE FOLLOWING PLANS OF RECORD FILED AT THE MIDDLESEX SOUTH COUNTY REGISTRY OF DEEDS.
    - 1921 COUNTY LAYOUT OF GREAT ROAD
    - 1951 COUNTY LAYOUT OF TAYLOR ROAD
    - Plan No. 490 of 1936
    - Plan Book 347, Plan 43
    - Plan No. 922 of 1949
    - Plan No. 215 of 1973
    - Plan No. 249 of 1975
    - Plan No. 43 of 2017

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PROJECT PHASE  
**BID SET**

OWNER / PROJECT NAME / LOCATION  
**TOWN OF MAYNARD  
GREEN MEADOW  
ELEMENTARY SCHOOL  
EARLY SITE  
PREPARATION  
PACKAGE  
5 TIGER DRIVE  
MAYNARD, MA 01754**

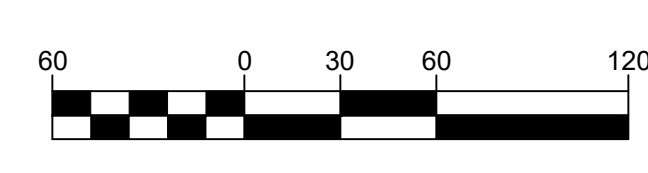
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**SITE  
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PLAN**

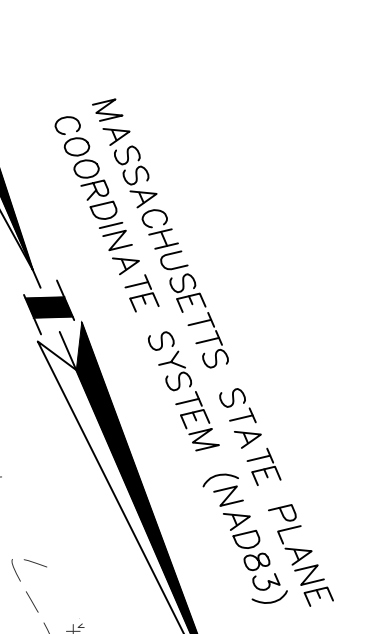
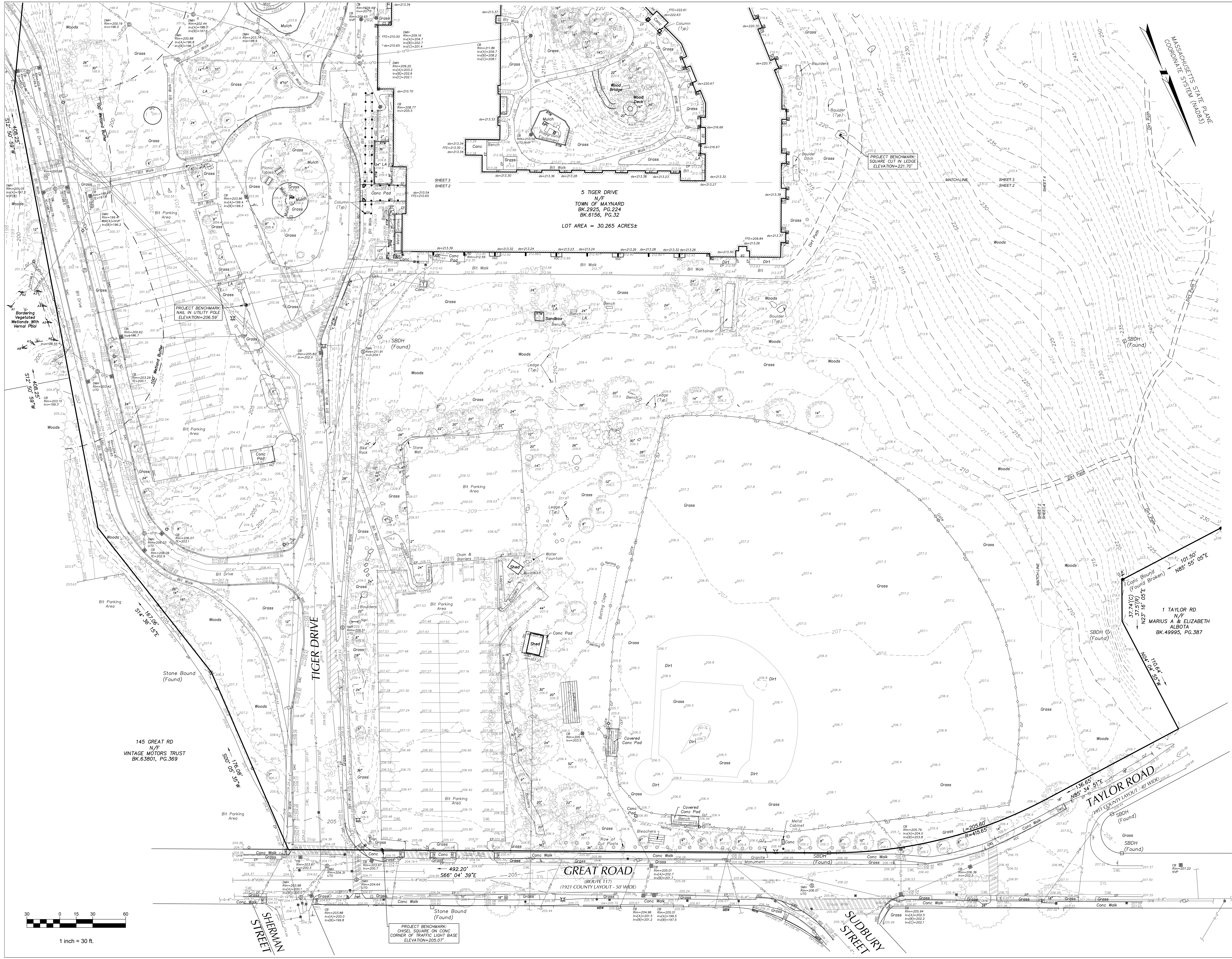
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| DATE                | MAY 22, 2024 |

DRAWING NUMBER 22047  
**EX-1**  
SHEET 1 OF 4

- LEGEND
- CATCHBASIN
  - DRAIN MANHOLE
  - SEWER MANHOLE
  - ROOF LEADER
  - HYDRANT
  - WATER GATE
  - WATER SERVICE
  - IRRIGATION CONTROL VALVE
  - GAS METER
  - GAS GATE
  - GAS SERVICE
  - TELEPHONE MANHOLE
  - ELECTRIC MANHOLE
  - ELECTRIC BOX
  - UTILITY POLE
  - GUY WIRE
  - TRAFFIC SIGNAL
  - LIGHT POLE
  - HANDHOLE
  - TRANSFORMER
  - FIRE SPRINKLER CONNECTION
  - SIGN
  - MAILBOX
  - POST
  - UNKNOWN MANHOLE
  - CONCRETE BOUND DRILL HOLE
  - STONE BOUND DRILL HOLE
  - WETLAND FLAG
  - BENCHMARK
  - DECIDUOUS TREE
  - CONIFEROUS TREE
  - SHRUB
  - STUMP
  - FLAGPOLE
  - HANDICAP PARKING SPACE
  - DRAIN LINE
  - SEWER LINE
  - WATER LINE
  - GAS LINE
  - OVERHEAD WIRE
  - E ELECTRIC LINE
  - T TELEPHONE LINE
  - -50' INDEX CONTOUR
  - -50' INTERMEDIATE CONTOUR
  - +58.7 SPOT GRADE
  - TC= TOP OF CURB ELEVATION
  - BC= BOTTOM OF CURB ELEVATION
  - TW= TOP OF WALL ELEVATION
  - BW= BOTTOM OF WALL ELEVATION
  - DS= DOOR SILL ELEVATION
  - FFE= FINISHED FLOOR ELEVATION
  - EC= EDGE OF CONCRETE
  - ES= EDGE OF PAVEMENT
  - ES= EDGE OF STONE
  - CS= COBBLESTONE
  - VPC VERTICAL POLYNYL CURB
  - VGC VERTICAL GRANITE CURB
  - SAC SLOPED ASPHALT CURB
  - VCC VERTICAL CONCRETE CURB
  - DWS DETECTABLE WARNING STRIP
  - SYL SOLID YELLOW LINE
  - SWL SOLID WHITE LINE
  - BI BITUMINOUS
  - LA LANDSCAPED AREA
  - CLF CHAIN LINK FENCE
  - WF WOOD FENCE
  - BMF BLACK METAL FENCE
  - WGR WOOD GUARD RAIL
  - OH OVERHANG
  - MBW MASONRY BLOCK WALL
  - RTW RAILROAD TIE WALL
  - VC VITRIFIED CLAY
  - TD TOP OF DEBRIS
  - TP TOP OF PIPE
  - TE TOP OF ELBOW
  - CI CAST IRON
  - RC REINFORCED CONCRETE
  - CP CORRUGATED PLASTIC
  - CM CORRUGATED METAL
  - UTO UNABLE TO OPEN
  - NVP NO VISIBLE PIPE
  - (R) RECORD
  - (C) CALCULATED





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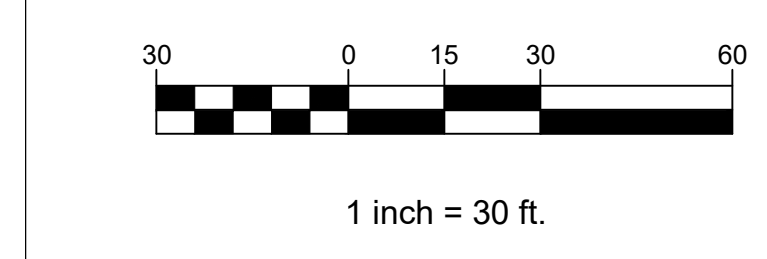
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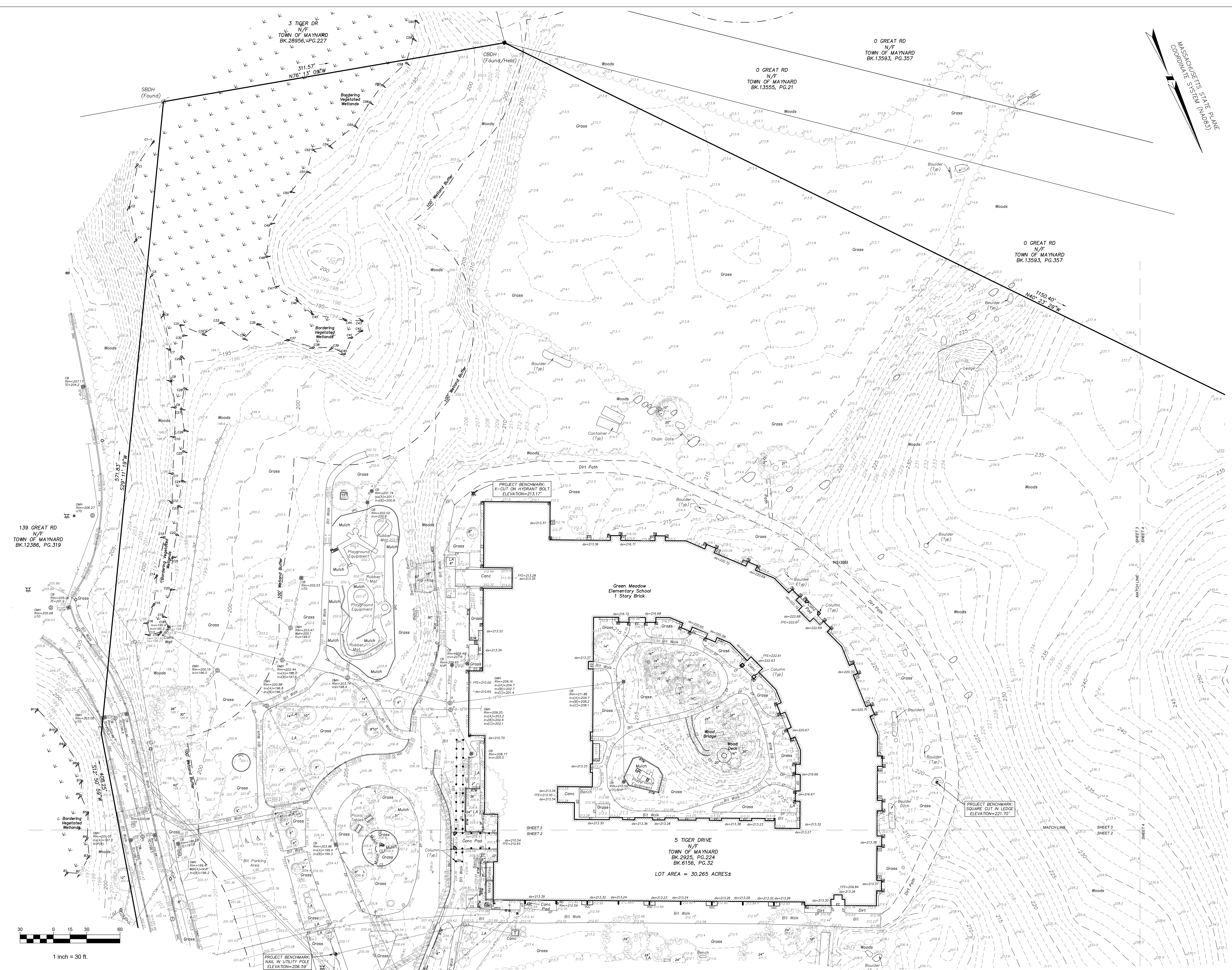
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| DRAWN BY            | RAG          |
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| DATE                | MAY 22, 2024 |

DRAWING NUMBER 52047





MASSACHUSETTS STATE PLANE  
COORDINATE SYSTEM (NAD83)

| REVISIONS |             |      |
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 ELEMENTARY SCHOOL  
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 PREPARATION  
 PACKAGE**

**5 TIGER DRIVE  
 MAYNARD, MA 01754**

5 TIGER DRIVE  
 MAYNARD, MA 01754

DRAWING TITLE  
**SITE  
SURVEY  
PLAN**

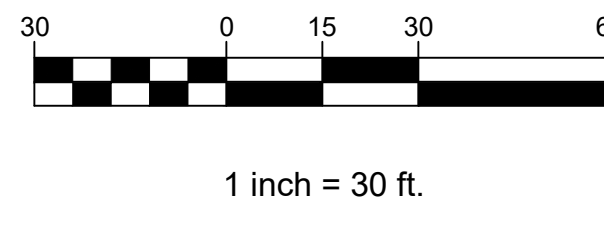
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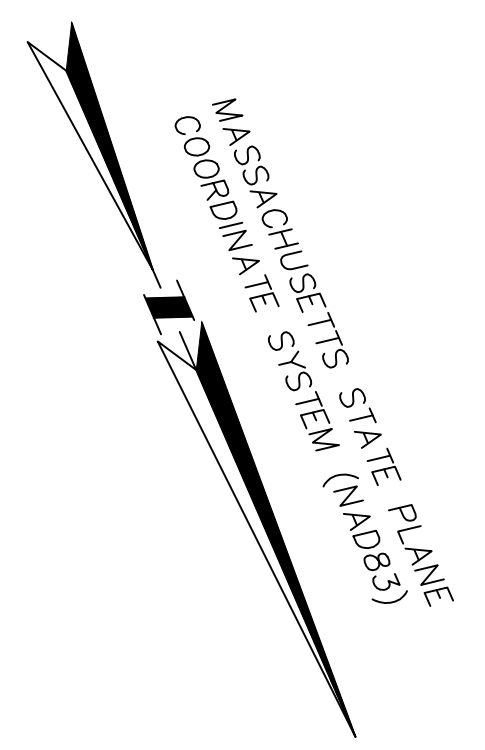
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| DATE                | MAY 22, 2024 |

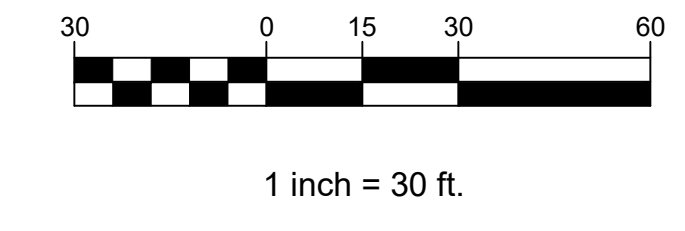
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TOWN OF MAYNARD  
BK.13593, PG.357

5 TIGER DRIVE  
N/F  
TOWN OF MAYNARD  
BK.2925, PG.224  
BK.6156, PG.32  
LOT AREA = 30.265 ACRES±



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PROJECT PHASE  
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PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION  
TOWN OF MAYNARD  
GREEN MEADOW  
ELEMENTARY SCHOOL  
EARLY SITE  
PREPARATION  
PACKAGE  
5 TIGER DRIVE  
MAYNARD, MA 01754

5 TIGER DRIVE  
MAYNARD, MA. 01754

DRAWING TITLE  
SITE  
SURVEY  
PLAN

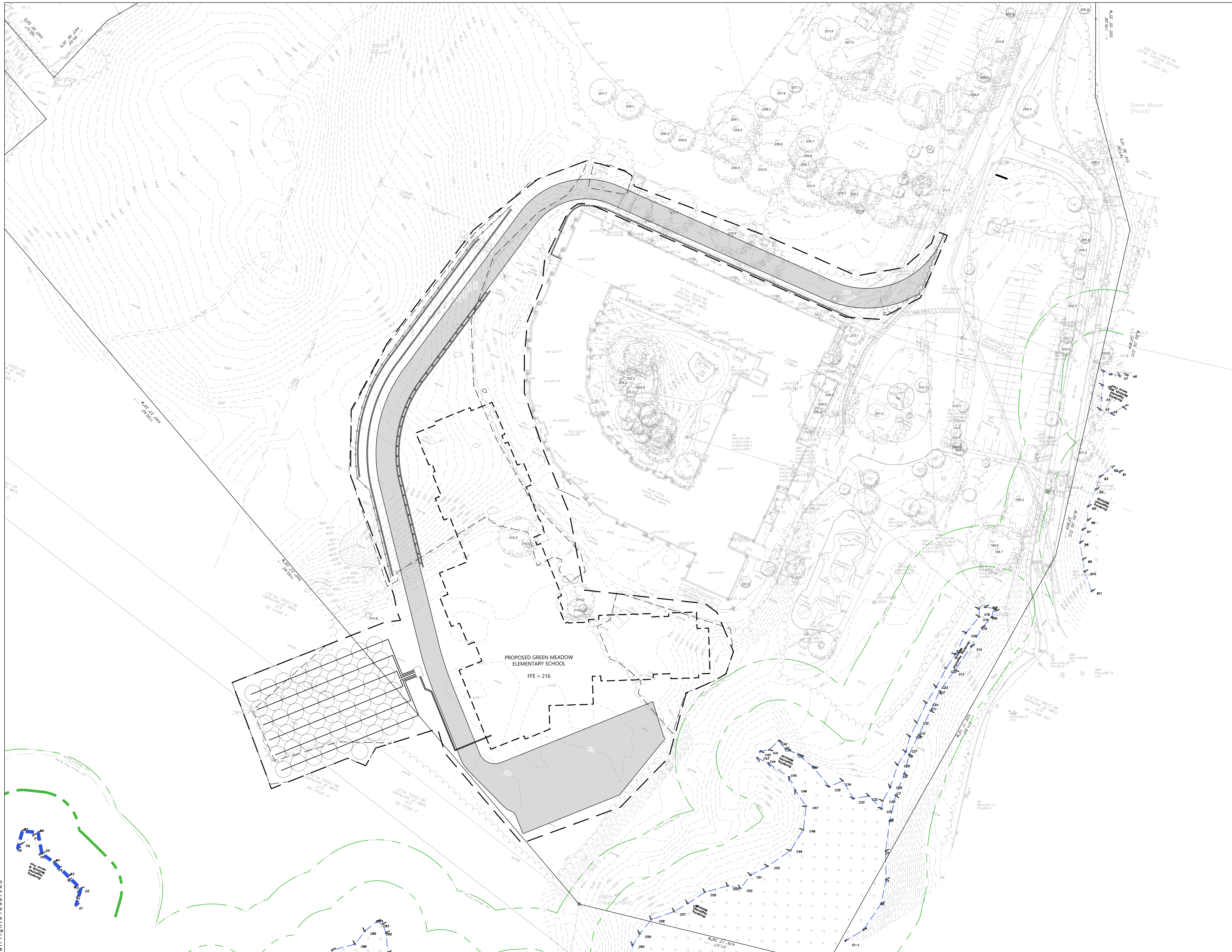
35 Center St.  
Chicopee, Massachusetts 01013  
413 592 9700 T  
413 592 5750 F  
info@mvgarchitects.com E

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| DATE                | MAY 22, 2024 |

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**EX-4**  
SHEET 4 OF 4



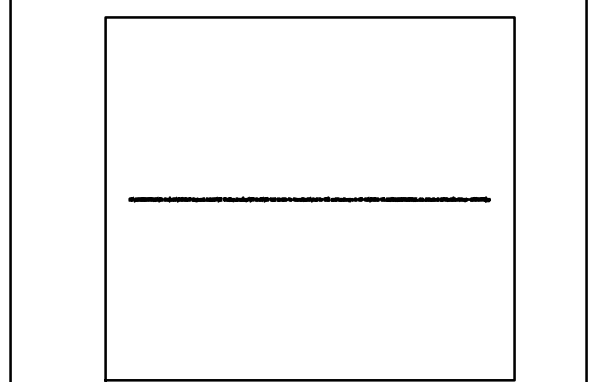
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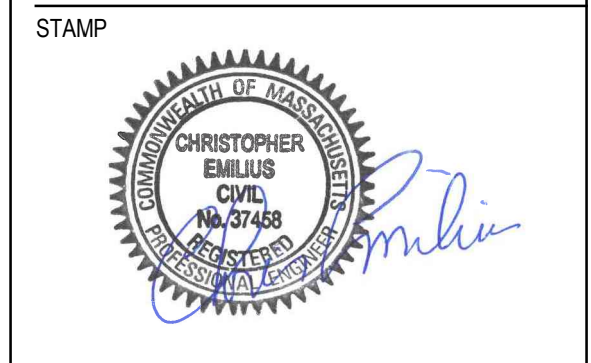
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OWNER / PROJECT NAME / LOCATION  
**TOWN OF MAYNARD  
 GREEN MEADOW  
 ELEMENTARY SCHOOL  
 EARLY SITE  
 PREPARATION  
 PACKAGE  
 5 TIGER DRIVE  
 MAYNARD, MA 01754**

DRAWING TITLE  
**OVERALL PLAN**



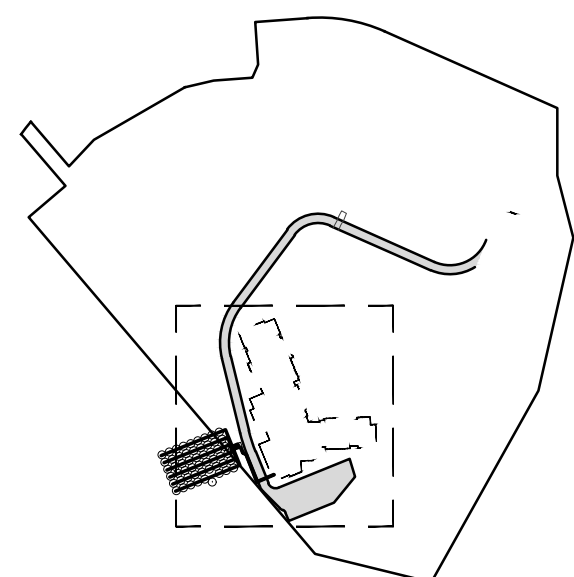
264 Exchange Street,  
 Suite G7  
 Chicopee, Massachusetts 01013  
 413 592 9700 T  
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| DRAWN BY            | CG           |
| CHECKED             | CE           |
| DATE                | MAY 22, 2024 |

DRAWING NUMBER  
**C-00**

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SHEET KEY  
1"=500'

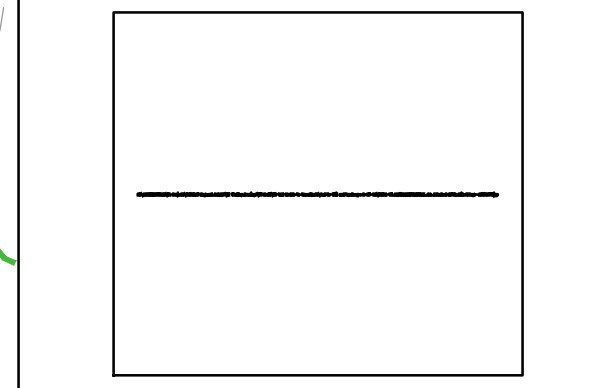
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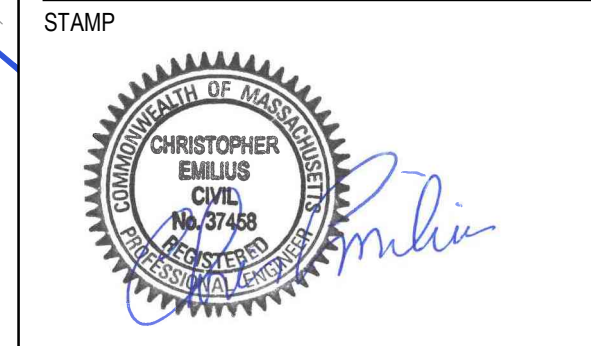
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OWNER / PROJECT NAME / LOCATION  
**TOWN OF MAYNARD  
GREEN MEADOW  
ELEMENTARY SCHOOL  
EARLY SITE  
PREPARATION  
PACKAGE  
5 TIGER DRIVE  
MAYNARD, MA 01754**

DRAWING TITLE  
**DEMO PLAN**



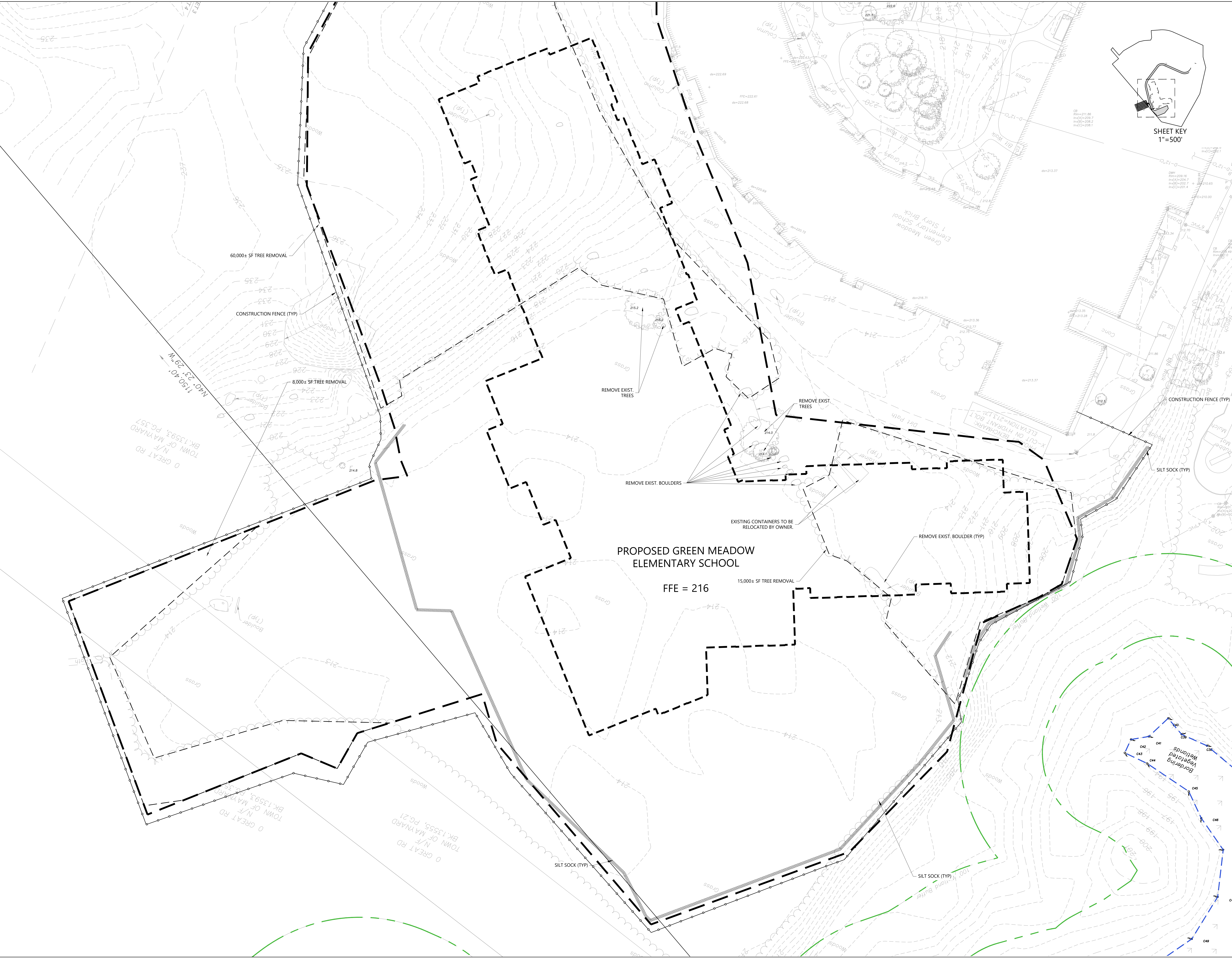
264 Exchange Street,  
Suite G7  
Chicopee, Massachusetts 01013  
413 592 9700 T  
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SCALE As Indicated  
DRAWN BY CG  
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DATE MAY 22, 2024

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**C-01.1**



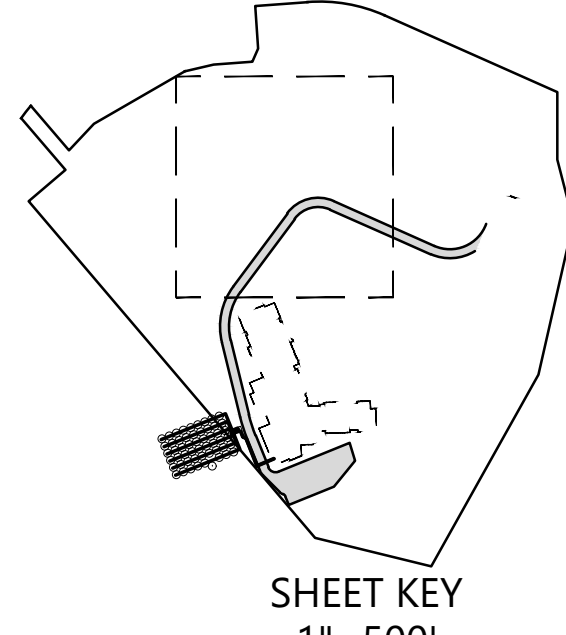
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**GENERAL EROSION & SEDIMENTATION CONTROL PLAN NOTES:**

1. APPLICANT/CONTRACTOR SHALL BE RESPONSIBLE FOR PHYSICALLY MARKING THE LIMITS OF CONSTRUCTION ON THE SITE WITH TAPE, SIGNS, OR ORANGE CONSTRUCTION FENCE, SO THAT WORKERS UNDERSTAND THE AREAS TO BE PROTECTED. THE PHYSICAL MARKERS SHALL BE INSPECTED DAILY AND REPAIRED AS NECESSARY THROUGHOUT THE DURATION OF THE PROJECT.
2. PERIMETER SEDIMENT CONTROL SYSTEM SHALL BE INSTALLED PRIOR TO SOIL DISTURBANCE AND MAINTAINED TO CONTAIN SOILS ON-SITE. AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST NOT BE DISTURBED UNLESS THE APPLICANT HAS OBTAINED PRIOR APPROVAL FROM THE CITY.
3. MEASURES SHALL BE TAKEN TO CONTROL EROSION WITHIN THE PROJECT AREA. SEDIMENT IN RUNOFF WATER SHALL BE TRAPPED AND RETAINED WITHIN THE PROJECT AREA AND STREET SWEEPING OF ADJACENT STREETS AND ROADS SHALL BE INCLUDED WHERE NECESSARY.
4. ALL AREAS OUTSIDE THE SITE SHALL BE PROTECTED FROM SEDIMENT.
5. MONITORING AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION SHALL BE REQUIRED. SEDIMENT SHALL BE REMOVED ONCE THE VOLUME REACHES  $\frac{1}{2}$  TO  $\frac{2}{3}$  THE HEIGHT OF THE EROSION CONTROL.
6. DIVERT RUNOFF FROM OFFSITE AND UNDISTURBED AREAS AWAY FROM CONSTRUCTION TO MINIMIZE SOIL EROSION AND SEDIMENTATION ON AND OFF-SITE. TEMPORARILY STABILIZE ALL HIGHLY ERODIBLE SOILS AND SLOPES IMMEDIATELY.
7. LAND DISTURBANCE ACTIVITIES EXCEEDING TWO ACRES IN SIZE SHALL NOT BE DISTURBED WITHOUT A SEQUENCING PLAN THAT REQUIRES STORMWATER CONTROLS TO BE INSTALLED AND EXPOSED SOILS STABILIZED, AS DISTURBANCE BEYOND THE TWO ACRES CONTINUES. A CONSTRUCTION PHASING PLAN, INCLUDING EROSION AND SEDIMENT CONTROL PLAN FOR EACH PHASE, SHALL BE SUBMITTED TO THE CITY PRIOR TO ANY CONSTRUCTION ON THE SITE. MASS CLEARINGS AND GRADING OF THE ENTIRE SITE SHALL BE AVOIDED.
8. SOIL STOCKPILES MUST BE STABILIZED OR COVERED AT THE END OF EACH WORKDAY. STOCKPILE SIDE SLOPES SHALL NOT BE GREATER THAN 2:1. ALL STOCKPILES SHALL BE SURROUNDED BY SEDIMENT CONTROLS.
9. DISTURBED AREAS REMAINING IDLE FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED.
10. PERMANENT SEEDING SHALL BE UNDERTAKEN IN THE SPRING FROM MARCH THROUGH MAY, AND IN LATE SUMMER AND EARLY FALL FROM AUGUST TO OCTOBER 15. DURING THE PEAK SUMMER MONTHS AND IN THE FALL AFTER OCTOBER 15, WHEN SEEDING IS FOUND TO BE IMPRACTICAL, AN APPROPRIATE TEMPORARY MULCH AND/OR NON-ASPHALTIC SOIL TACKIFIER WITH WINTER RYE SHALL BE APPLIED. PERMANENT SEEDING MAY BE UNDERTAKEN DURING THE SUMMER IF PLANS PROVIDE FOR ADEQUATE MULCHING AND WATERING.
11. TEMPORARY CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL ENTRANCE/EXIST POINTS OF THE SITE TO REDUCE THE AMOUNT OF SOIL CARRIED ONTO ROADWAYS AND OFF THE SITE. DUST SHALL ALSO BE CONTROLLED AT THE SITE.
12. ALL SLOPES STEEPER THAN 3:1 (H:V. 33.3%), AS WELL AS PERIMETER DIKES, SEDIMENT BASINS OR TRAPS, AND EMBANKMENTS MUST, UPON COMPLETION, BE IMMEDIATELY STABILIZED WITH SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES.
13. TEMPORARY SEDIMENT TRAPPING DEVICES MUST NOT BE REMOVED UNTIL PERMANENT STABILIZATION IS ESTABLISHED IN ALL CONSTRUCTION AREAS ASSOCIATED WITH THE PROJECT. SIMILARLY, STABILIZATION MUST BE ESTABLISHED PRIOR TO CONVERTING TEMPORARY SEDIMENT TRAPS/BASINS INTO PERMANENT (POST-CONSTRUCTION) STORMWATER MANAGEMENT FACILITIES. ALL FACILITIES USED FOR TEMPORARY MEASURES SHALL BE CLEANED AND RE-STABILIZED PRIOR TO BEING PUT INTO FINAL OPERATION.
14. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER FINAL SITE STABILIZATION. DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED WITHIN 30 DAYS OF REMOVAL.

**SITE DUST CONTROL REQUIREMENTS**

1. THE CONTRACTOR SHALL MITIGATE ALL DEMOLITION AND CONSTRUCTION DUST GENERATED ON THE PROJECT SITE REGARDLESS OF THE ACTIVITY BEING PERFORMED.
2. THE CONTRACTOR SHALL PROVIDE WATER FOR DUST CONTROL AND PUMPS AND HOSES ON SITE AT ALL TIMES TO MANAGE DUST DURING AND AFTER DEMOLITION.
3. THE CONTRACTOR SHALL EMPLOY TECHNIQUES SUCH AS WET SWEEPING, WATERING DOWN WITH HOSES AND PREEMPTIVE CLEANING TO MITIGATE DUST GENERATION FROM ALL OPERATIONS.
4. SAW CUTTING SHALL BE DONE USING SAWS THAT ARE EQUIPPED WITH SPRAY ATTACHMENTS THAT WILL ADEQUATELY WET DEBRIS GENERATED FROM CUTTING FROM BECOMING AIR-BORN.



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PROJECT PHASE  
**BID SET**

PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION  
**TOWN OF MAYNARD**  
**GREEN MEADOW**  
**ELEMENTARY SCHOOL**  
**EARLY SITE PREPARATION PACKAGE**  
**5 TIGER DRIVE**  
**MAYNARD, MA 01754**

DRAWING TITLE  
**DEMO PLAN**

264 Exchange Street,  
 Suite G7  
 Chicopee, Massachusetts 01013

413 592 9700 T  
 413 592 9750 F  
 info@mvgarchitects.com E

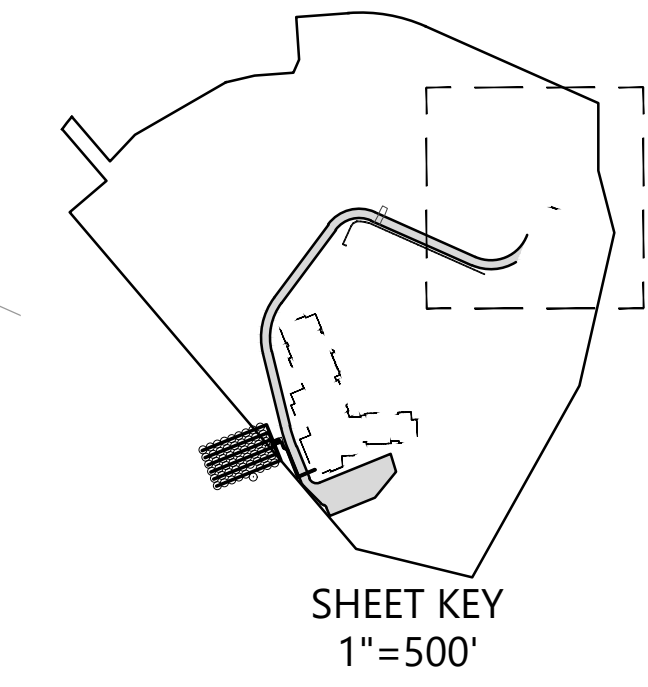
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| DATE     | MAY 22, 2024 |

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**C-01.2**





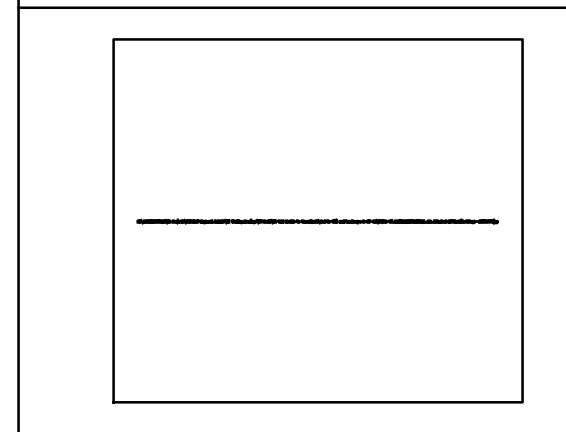
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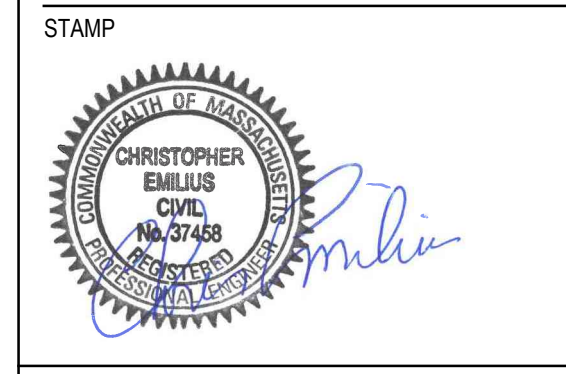
PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION  
**TOWN OF MAYNARD  
 GREEN MEADOW  
 ELEMENTARY SCHOOL  
 EARLY SITE  
 PREPARATION  
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 5 TIGER DRIVE  
 MAYNARD, MA 01754

DRAWING TITLE  
**DEMO PLAN**

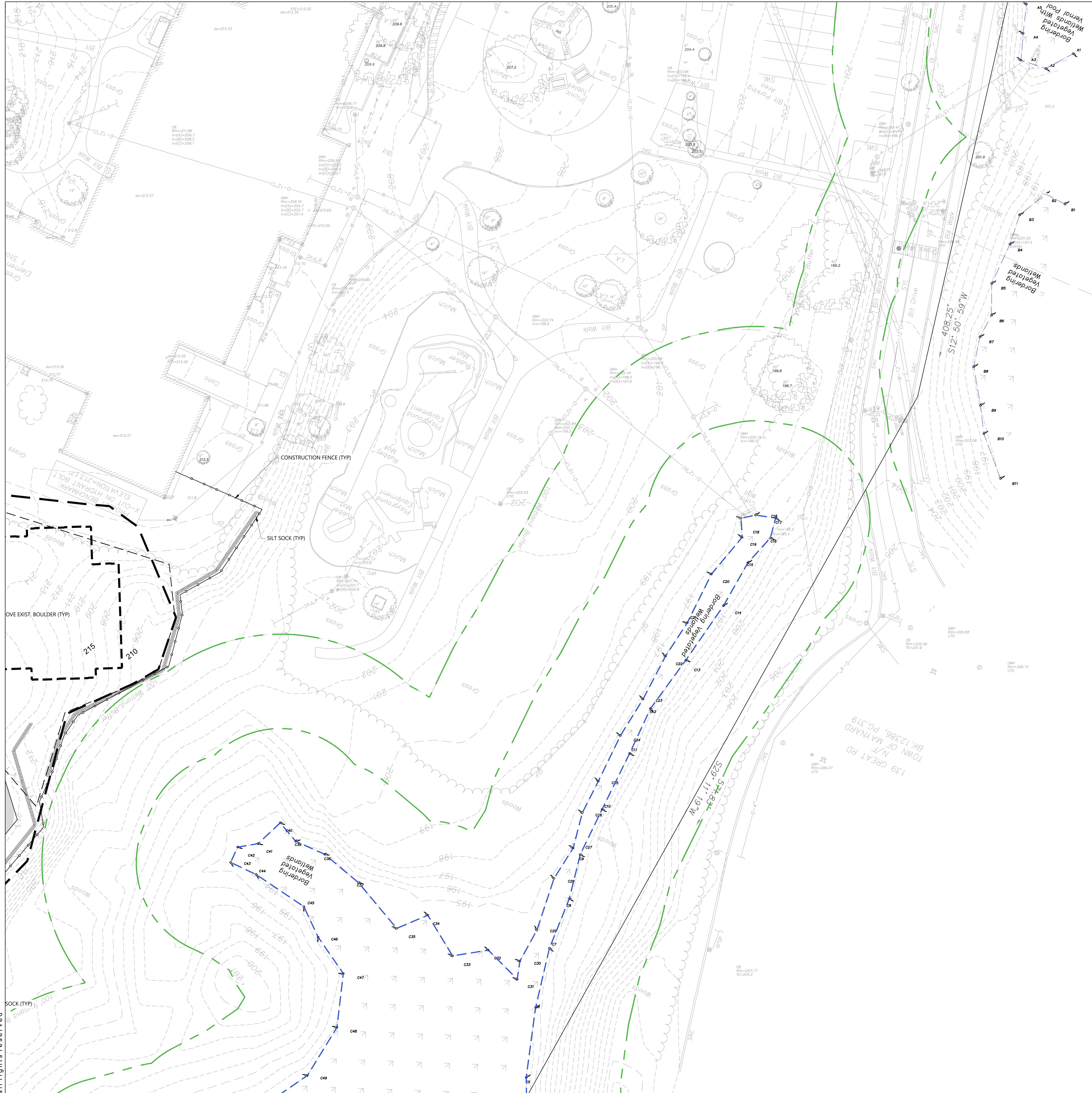
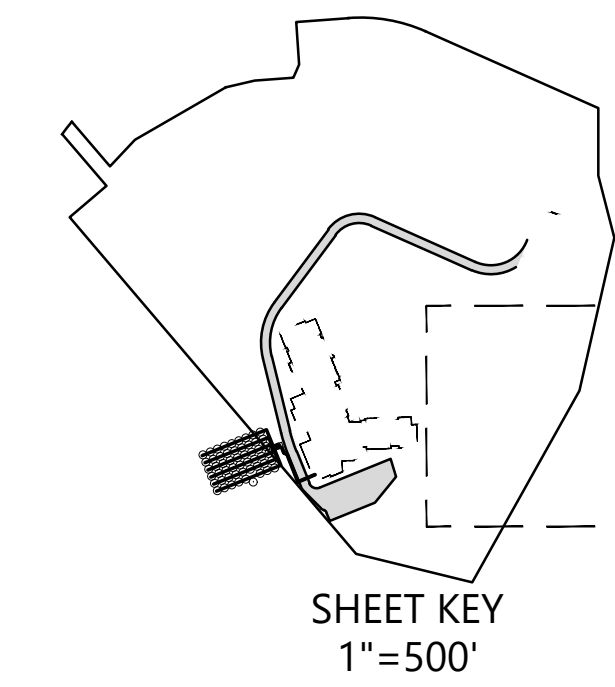


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| DATE                | MAY 22, 2024 |

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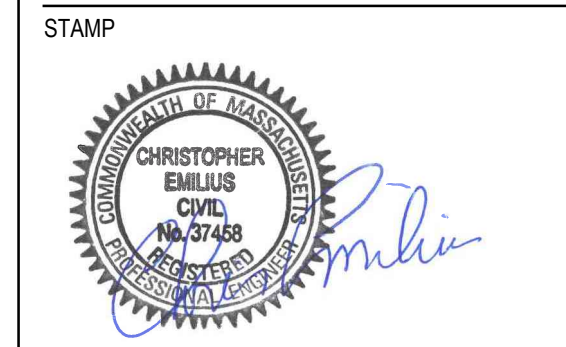
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**GREEN MEADOW**  
**ELEMENTARY SCHOOL**  
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**PREPARATION**  
**PACKAGE**  
**5 TIGER DRIVE**  
**MAYNARD, MA 01754**

DRAWING TITLE  
**DEMO PLAN**

264 Exchange Street,  
Suite G7  
Chicopee, Massachusetts 01013

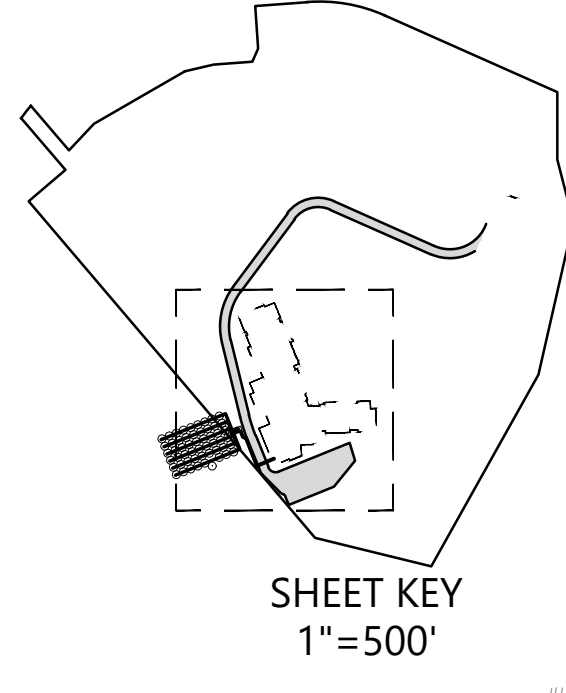
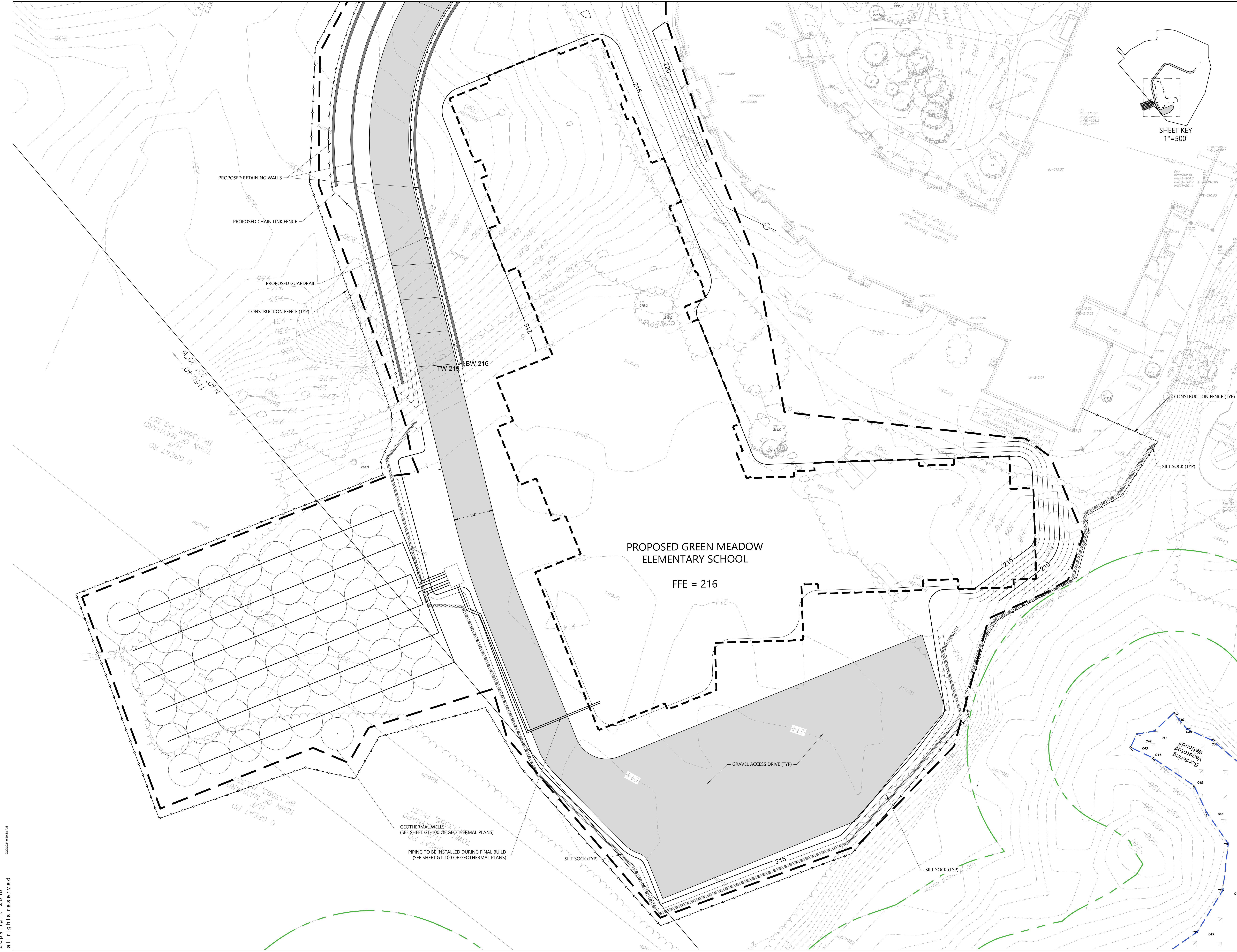
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| CHECKED             | CE           |
| DATE                | MAY 22, 2024 |

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**C-01.4**

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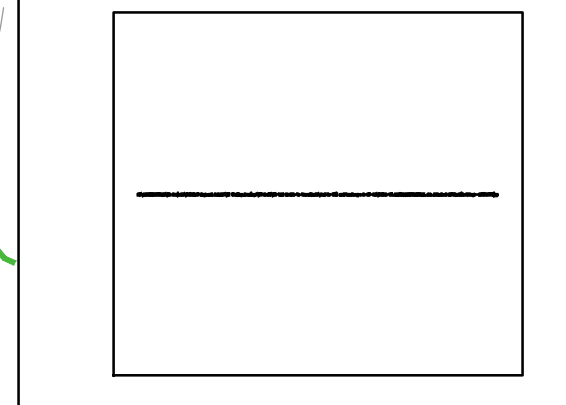
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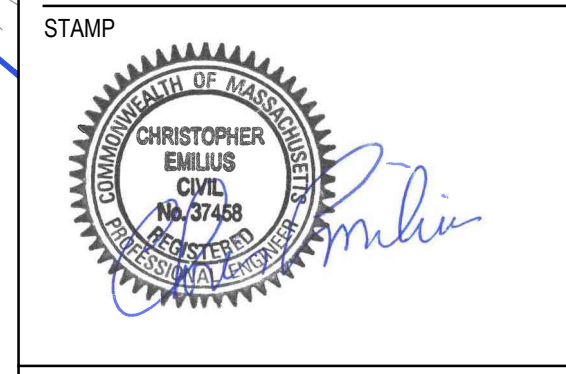
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OWNER / PROJECT NAME / LOCATION  
**TOWN OF MAYNARD  
 GREEN MEADOW  
 ELEMENTARY SCHOOL  
 EARLY SITE  
 PREPARATION  
 PACKAGE  
 5 TIGER DRIVE  
 MAYNARD, MA 01754**

DRAWING TITLE  
**SITE PREPARATION PLAN**



264 Exchange Street,  
 Suite G7  
 Chicopee, Massachusetts 01013  
 413 592 9700 T  
 413 592 9750 F  
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 SCALE As Indicated  
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DRAWING NUMBER  
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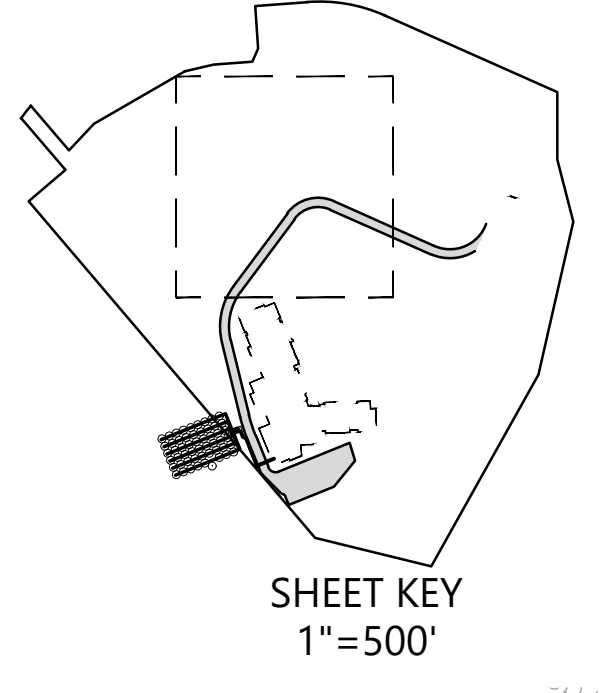
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**GENERAL NOTES:**

1. REFER TO DRAWING C-01 FOR EROSION CONTROL NOTES. THESE NOTES SHALL APPLY TO THE FINAL SITE CONDITION.
2. APPLICANT/CONTRACTOR SHALL BE RESPONSIBLE FOR PHYSICALLY MARKING THE LIMITS OF CONSTRUCTION ON THE SITE WITH TAPE, SIGNS, OR ORANGE CONSTRUCTION FENCE, SO THAT WORKERS UNDERSTAND THE AREAS TO BE PROTECTED. THE PHYSICAL MARKERS SHALL BE INSPECTED DAILY AND REPAIRED AS NECESSARY THROUGHOUT THE DURATION OF THE PROJECT.
3. PERIMETER SEDIMENT CONTROL SYSTEM AS SHOWN ON THIS DRAWING AND ON THE DEMOLITION PLAN SHALL BE INSTALLED PRIOR TO SOIL DISTURBANCE AND MAINTAINED TO CONTAIN SOILS ON-SITE. AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST NOT BE DISTURBED UNLESS THE APPLICANT HAS OBTAINED PRIOR APPROVAL FROM THE CITY.
4. ADDED MEASURES TO CONTROL EROSION ARE ADDED TO THIS DRAWING TAKEN TO CONTROL EROSION WITHIN THE PROJECT AREA AND TO CONTROL SEDIMENT TO THE PROPOSED LOWER POND AND THE OUTFALL PIPING BEING INSTALLED DURING THIS PROJECT AND TO BE MAINTAINED AS PART OF THE FINAL SITE.
5. ALL OFF SITE AREAS AND DRAIN INLETS SHALL BE PROTECTED FROM SEDIMENT DURING AND AFTER DEMOLITION AND CONSTRUCTION WORK.
6. ALL SEDIMENT COLLECTION SYSTEMS INCLUDING BUT NOT LIMITED TO: SILT FENCES, SILT FENCE CHECKS, CATCH BASIN SILT SACKS, STRAW WATTLES, LOWER POND FORE-BAY, POND BOTTOM AND OUTLET STRUCTURE, AND UPPER POND INLET STRUCTURE AND ALL DRAINAGE PIPING AND STRUCTURES SHALL BE CLEANED.
7. ALL BROKEN, DAMAGED OR CLOGGED SEDIMENT CONTROL DEVICES SHALL BE REPLACED AS REQUIRED BY THE OWNER'S REPRESENTATIVE ONCE BUILDING AND SITE DEMOLITION AND ALL PROPOSED CONSTRUCTION IS COMPLETED.

**SITE DUST CONTROL REQUIREMENTS**

1. THE CONTRACTOR SHALL MITIGATE ALL DEMOLITION AND CONSTRUCTION DUST GENERATED ON THE PROJECT SITE REGARDLESS OF THE ACTIVITY BEING PERFORMED.
2. THE CONTRACTOR SHALL PROVIDE WATER FOR DEMOLITION AND CONSTRUCTION PURPOSES BY EITHER SUPPLYING WATER OR COORDINATING A TEMPORARY WATER CONNECTION WITH THE CITY WATER DEPARTMENT.
3. ALL COSTS ASSOCIATED WITH PROVIDING WATER OR PROVIDING A TEMPORARY WATER SERVICE AND DISCONNECTION SHALL BE INCLUDED IN THE BASE PRICE FOR THE CONTRACT, INCLUDING ANY COSTS ASSOCIATED WITH WATER METERS AND BACK FLOW DEVICES REQUIRED BY THE CITY WATER DEPARTMENT.
4. THE CONTRACTOR SHALL EMPLOY TECHNIQUES SUCH AS WET SWEEPING, WATERING DOWN WITH HOSES AND PREEMPTIVE CLEANING TO MITIGATE DUST GENERATION FROM ALL OPERATIONS.
5. SAW CUTTING SHALL BE DONE USING SAWS THAT ARE EQUIPPED WITH SPRAY ATTACHMENTS THAT WILL ADEQUATELY WET DEBRIS GENERATED FROM CUTTING FROM BECOMING AIR-BORN.



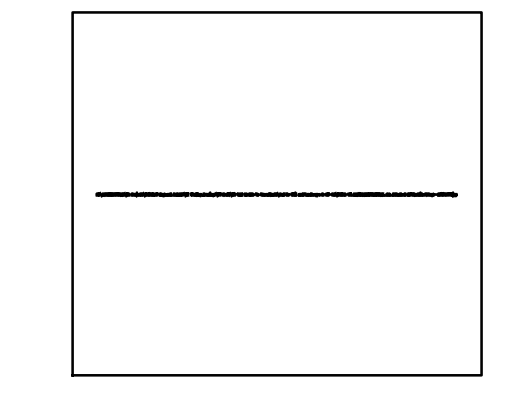
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PROJECT PHASE  
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PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION  
**TOWN OF MAYNARD  
GREEN MEADOW  
ELEMENTARY SCHOOL  
EARLY SITE  
PREPARATION  
PACKAGE  
5 TIGER DRIVE  
MAYNARD, MA 01754**

DRAWING TITLE  
**SITE PREPARATION PLAN**

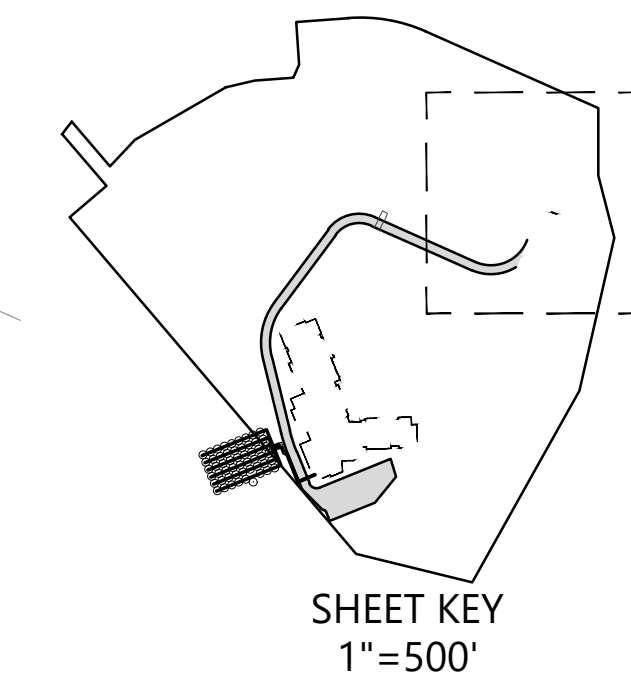


264 Exchange Street,  
Suite G7  
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413 592 9700 T  
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info@mvgarchitects.com E

STAMP  
LOT AREA = 30.265 ACRES  
TOWN OF MAYNARD  
BK 2925 PG 224  
BR 6156 PG 32  
5 TIGER DRIVE  
N/F  
EXISTING TRANSFORMER TO BE REMOVED. TEMP SERVICE TO BE PULLED FROM UTILITY POLE

DRAWING INFORMATION  
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DRAWN BY CG  
CHECKED CE  
DATE MAY 22, 2024

DRAWING NUMBER  
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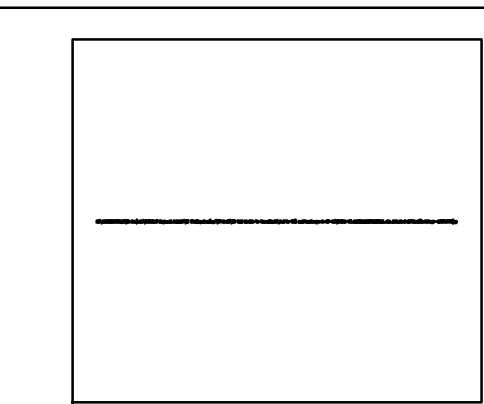
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PROJECT PHASE  
**BID SET**

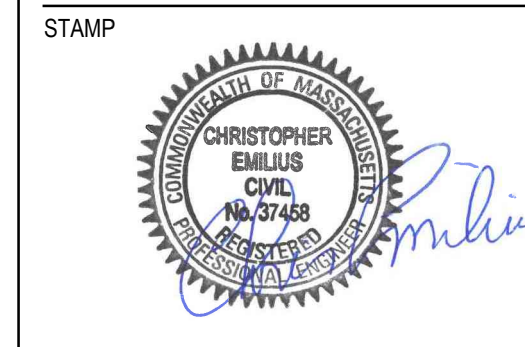
PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION  
**TOWN OF MAYNARD  
 GREEN MEADOW  
 ELEMENTARY SCHOOL  
 EARLY SITE  
 PREPARATION  
 PACKAGE**  
 5 TIGER DRIVE  
 MAYNARD, MA 01754

DRAWING TITLE  
**SITE PREPARATION PLAN**



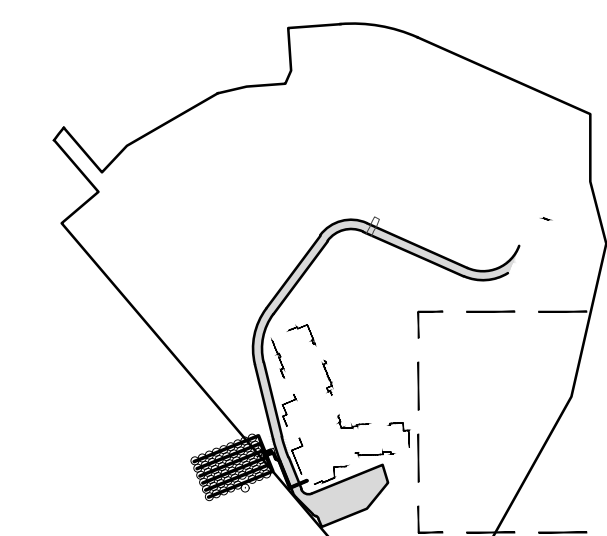
264 Exchange Street,  
 Suite G7  
 Chicopee, Massachusetts 01013  
 413 592 9700 T  
 413 592 9750 F  
 info@mvgaarchitects.com E



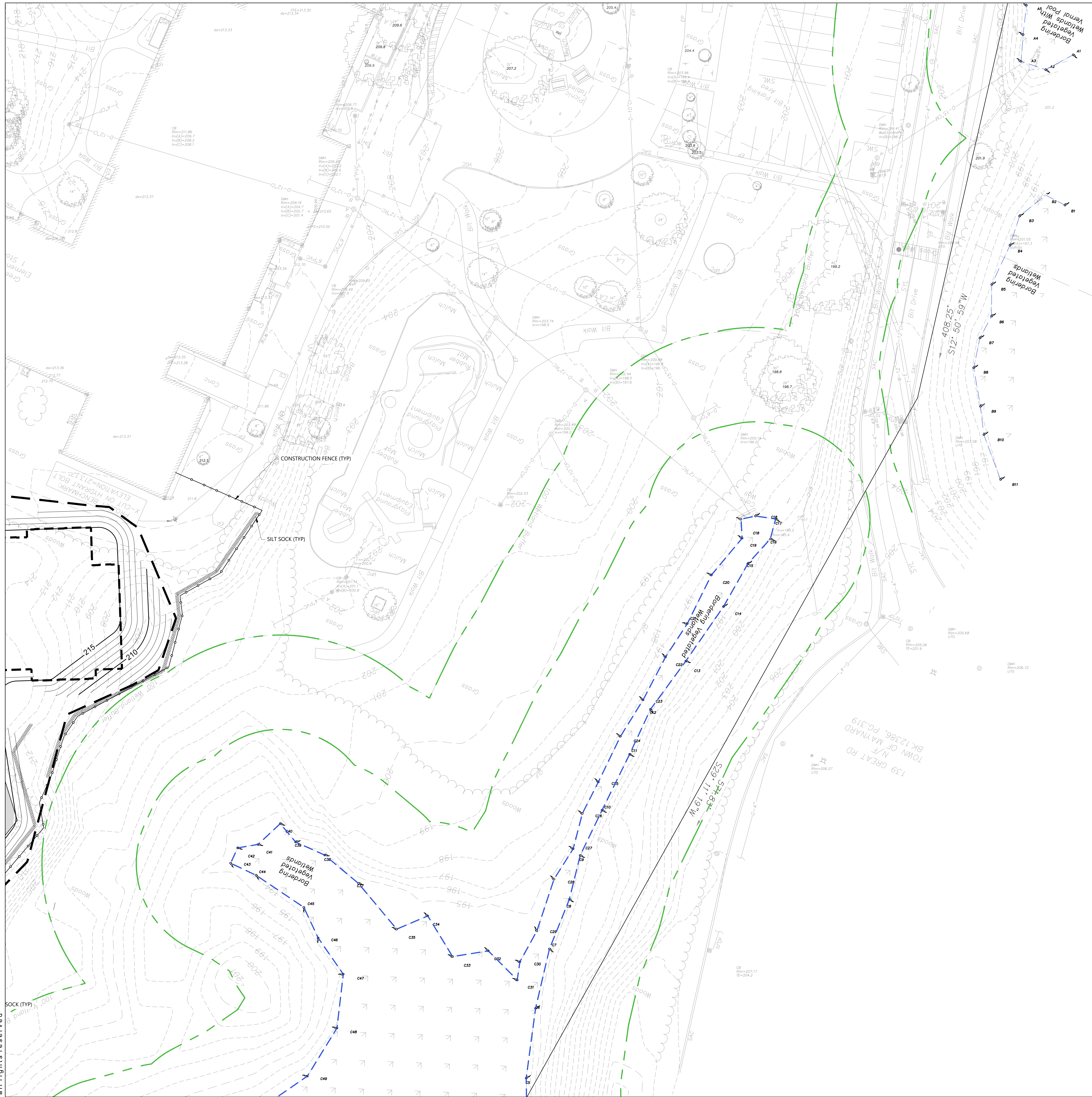
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| SCALE               | As Indicated |
| DRAWN BY            | CG           |
| CHECKED             | CE           |
| DATE                | MAY 22, 2024 |

DRAWING NUMBER

**C-02.3**



SHEET KEY  
1"=500'



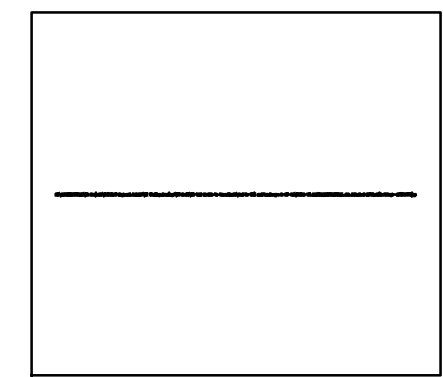
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PROJECT PHASE  
BID SET

PROJECT NUMBER

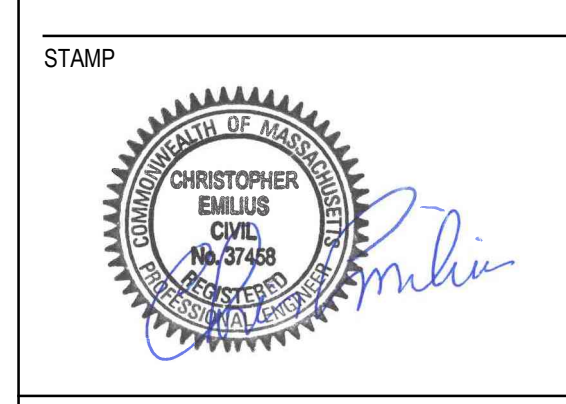
OWNER / PROJECT NAME / LOCATION  
**TOWN OF MAYNARD**  
**GREEN MEADOW**  
**ELEMENTARY SCHOOL**  
**EARLY SITE**  
**PREPARATION**  
**PACKAGE**  
**5 TIGER DRIVE**  
**MAYNARD, MA 01754**

DRAWING TITLE  
SITE PREPARATION PLAN



264 Exchange Street,  
Suite G7  
Chicopee, Massachusetts 01013

413 592 9700 T  
413 592 9750 F  
info@mvgarchitects.com E

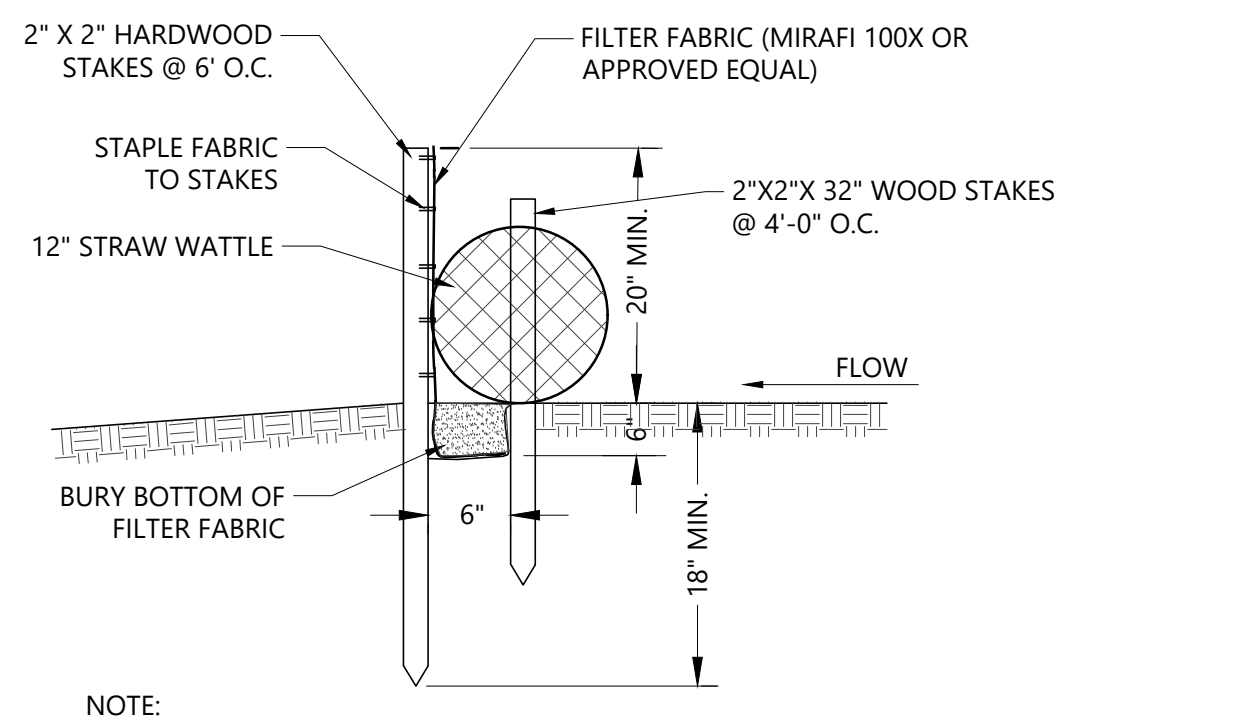


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| SCALE    | As Indicated |
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| DATE     | MAY 22, 2024 |

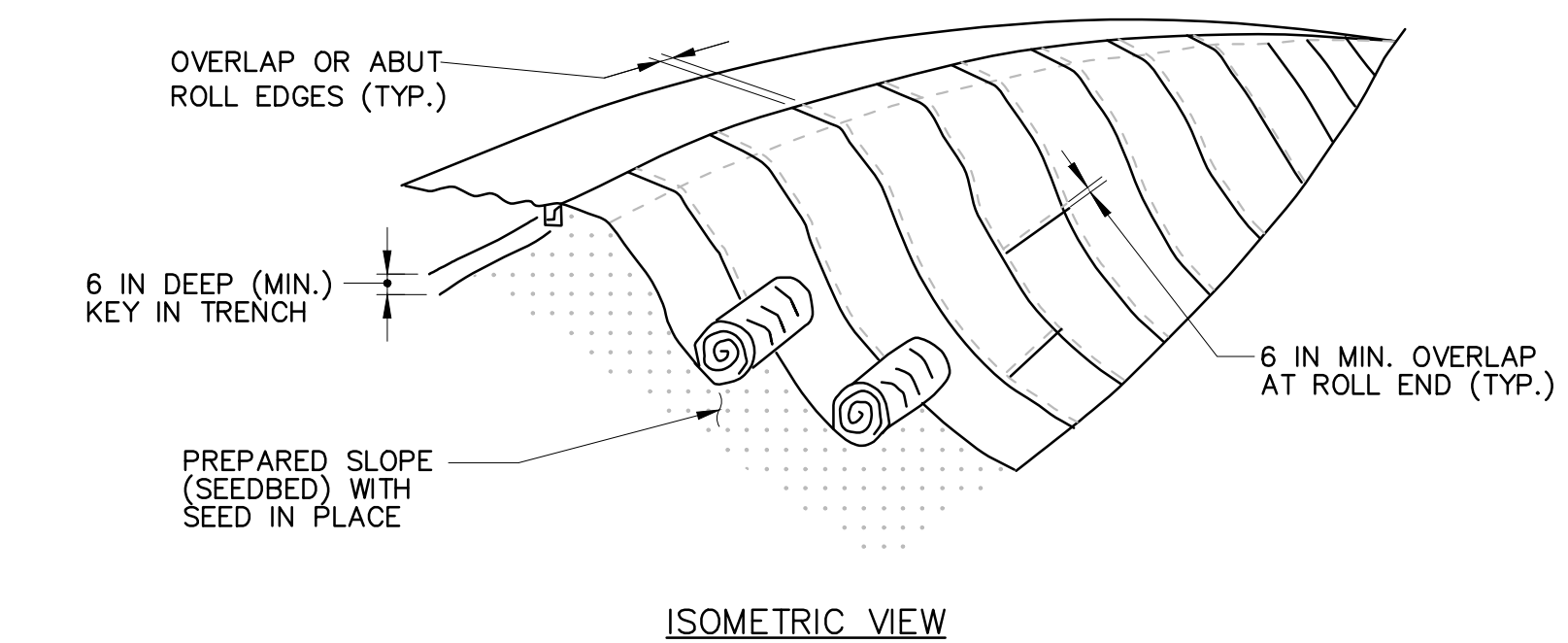
DRAWING NUMBER  
**C-02.4**

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NOTE: AN EROSION BARRIER CONSISTING OF A CONTINUOUS ROW OF STRAW WATTLES SHALL BE INSTALLED IN LOCATIONS NOTED ON THE PLANS.

**STRAW WATTLE AND SILT FENCE DETAIL**  
NOT TO SCALE



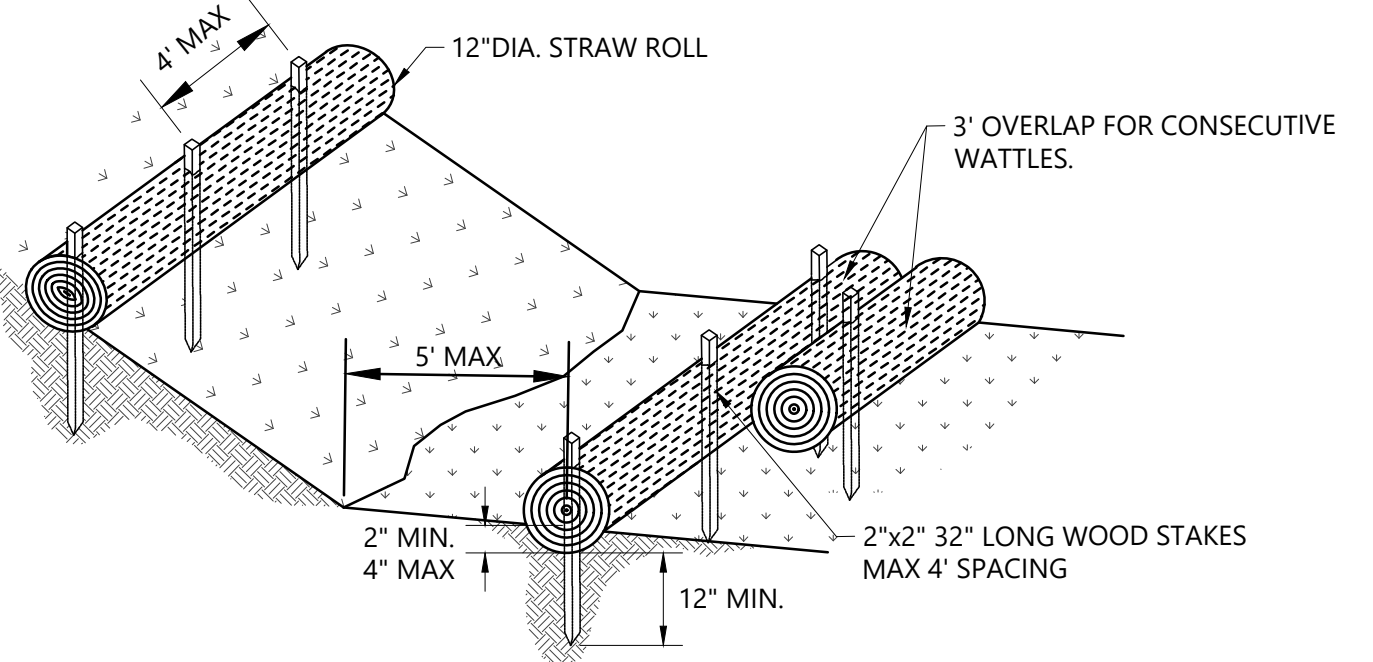
ISOMETRIC VIEW

CONSTRUCTION SPECIFICATIONS

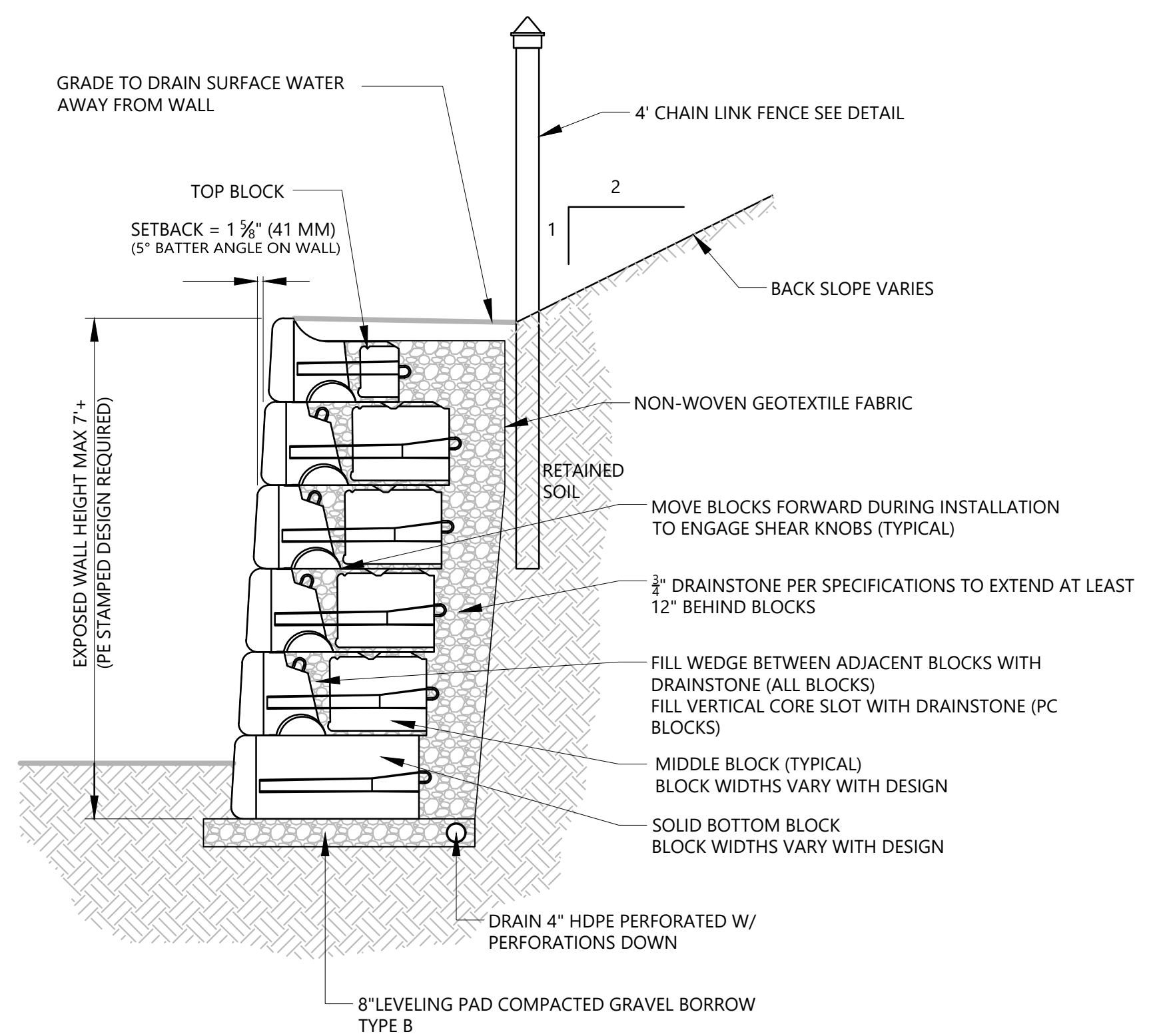
- JUTE MESH FOR POND SIDE SLOPES AND PERMANENT SLOPES SHALL BE 100% JUTE 15 O.Z./SQ.YD. LOOSELY WOVEN AND BIODEGRADABLE.
- JUTE MESH SHALL BE MADE OF DEGRADABLE (LASTS 6 MONTHS MAX.) NATURAL FIBERS. MESH STRANDS MUST HAVE UNIFORM THICKNESS AND STRANDS SHALL BE EVENLY SPACED IN BOTH DIRECTIONS.
- SECURE MATTING USING STEEL OR BIODEGRADABLE STAPLES, SPACED AT LEAST 12 INCHES ON CENTER.
- PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION & SEDIMENT CONTROL PLAN.
- UNROLL MATTING DOWN-SLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
- OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UP-SLOPE MAT OVERLAPPING ON TOP OF THE DOWN-SLOPE MAT.
- KEY IN THE UP-SLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
- STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 1 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
- ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE LANDSCAPE PLANS AND SPECIFICATIONS.

TEMPORARY SOIL STABILIZATION JUTE MESH SLOPE APPLICATION

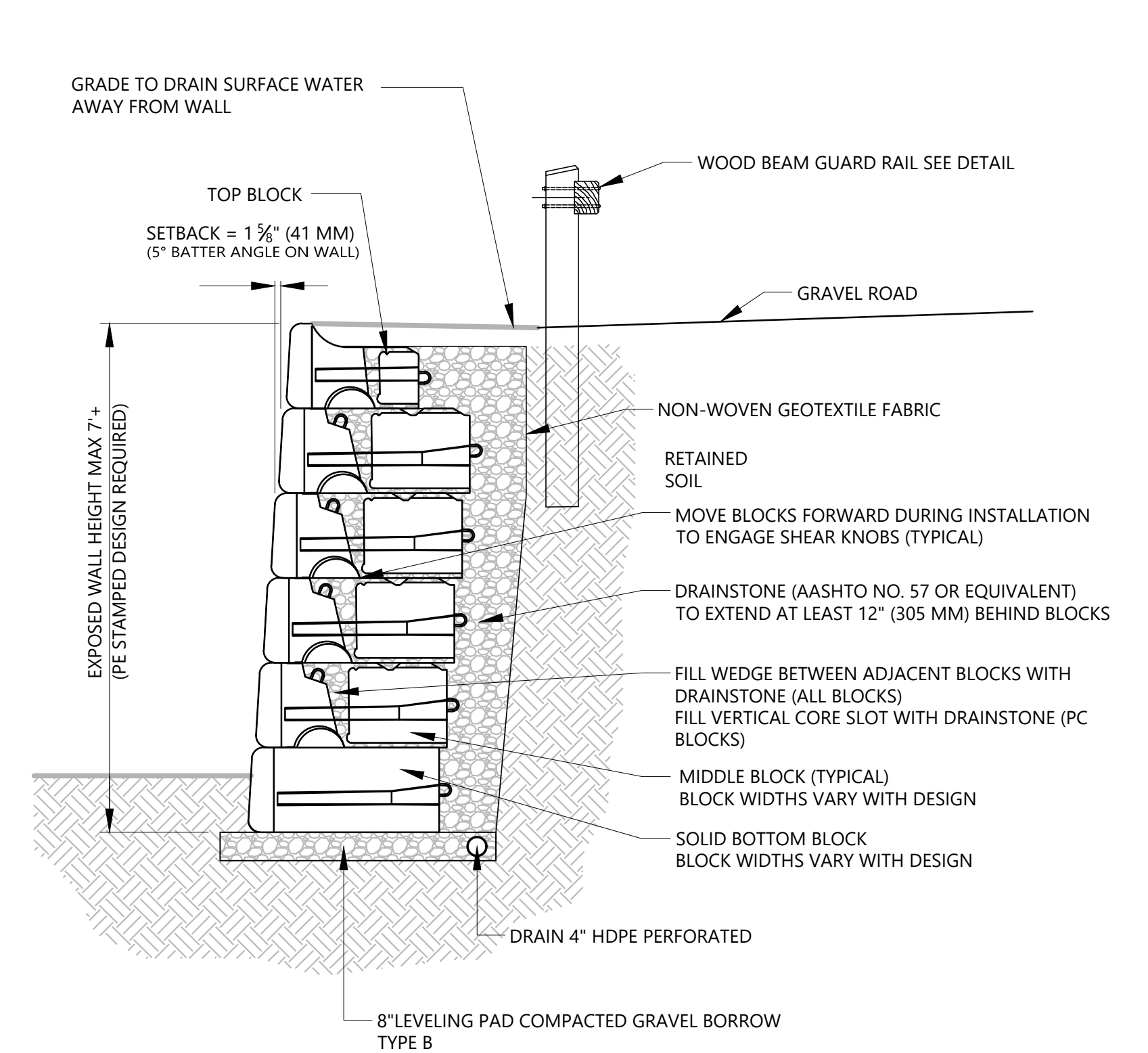
NOT TO SCALE



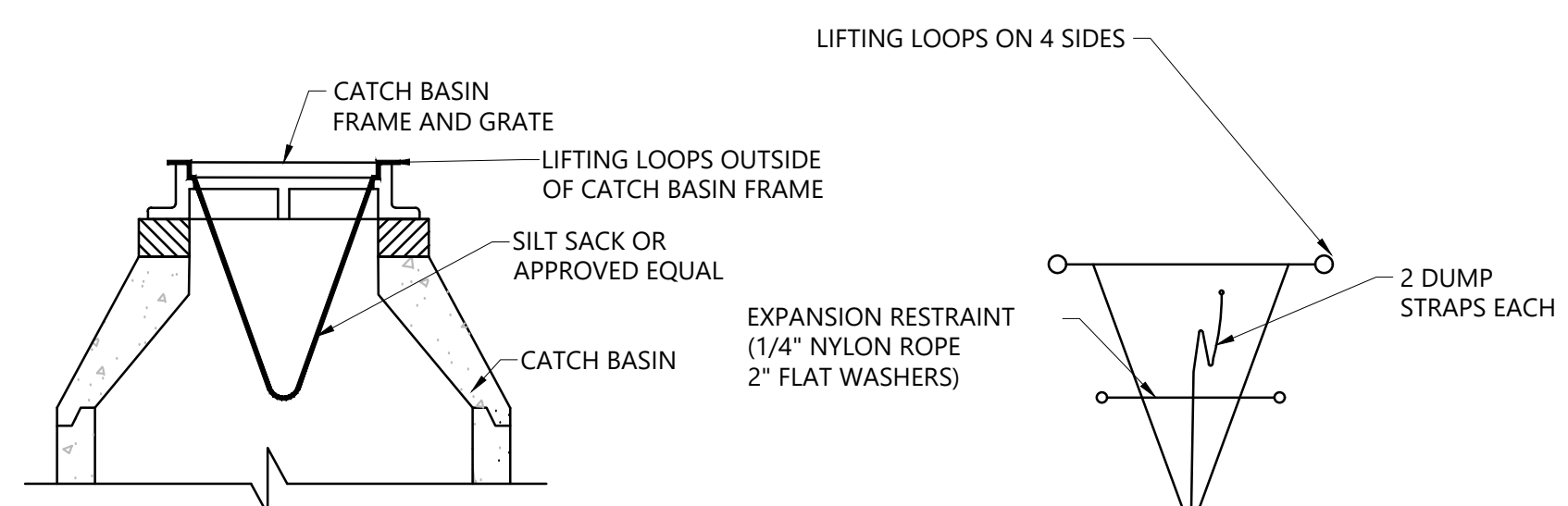
**STRAW WATTLE DETAIL**  
NOT TO SCALE



**TYPICAL REDI-ROCK GRAVITY RETAINING WALL W/ FENCE**  
NOT TO SCALE

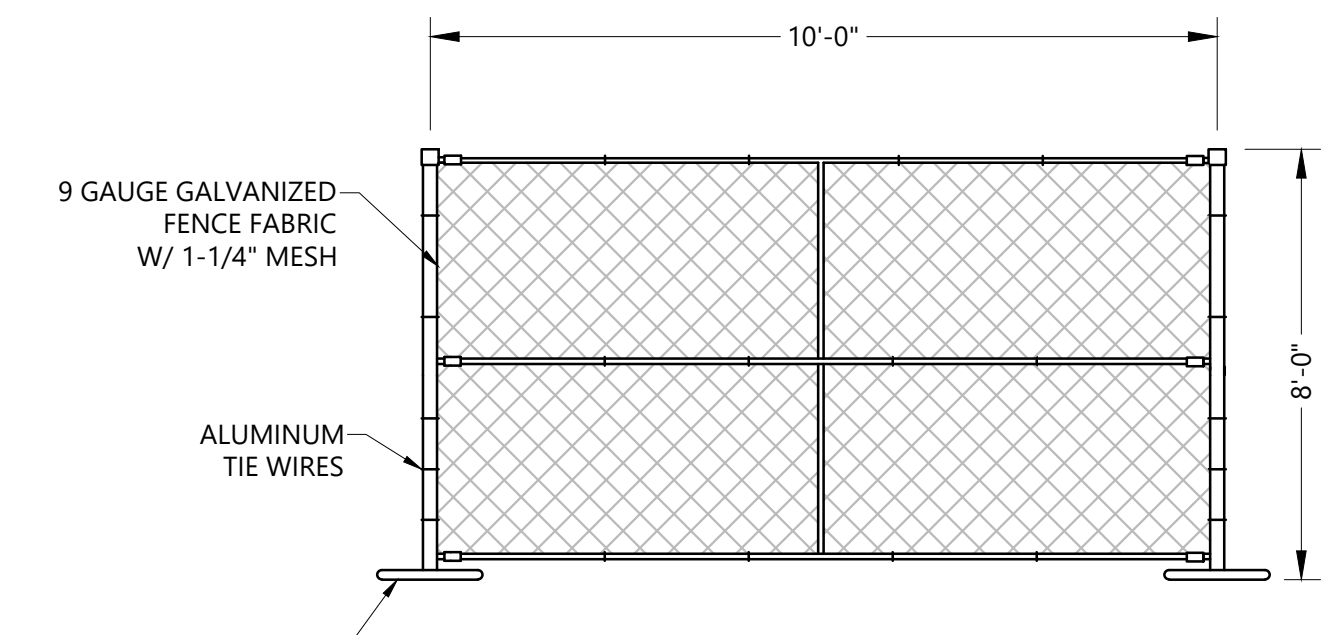


**TYPICAL REDI-ROCK GRAVITY RETAINING WALL W/ GUARD RAIL**  
NOT TO SCALE

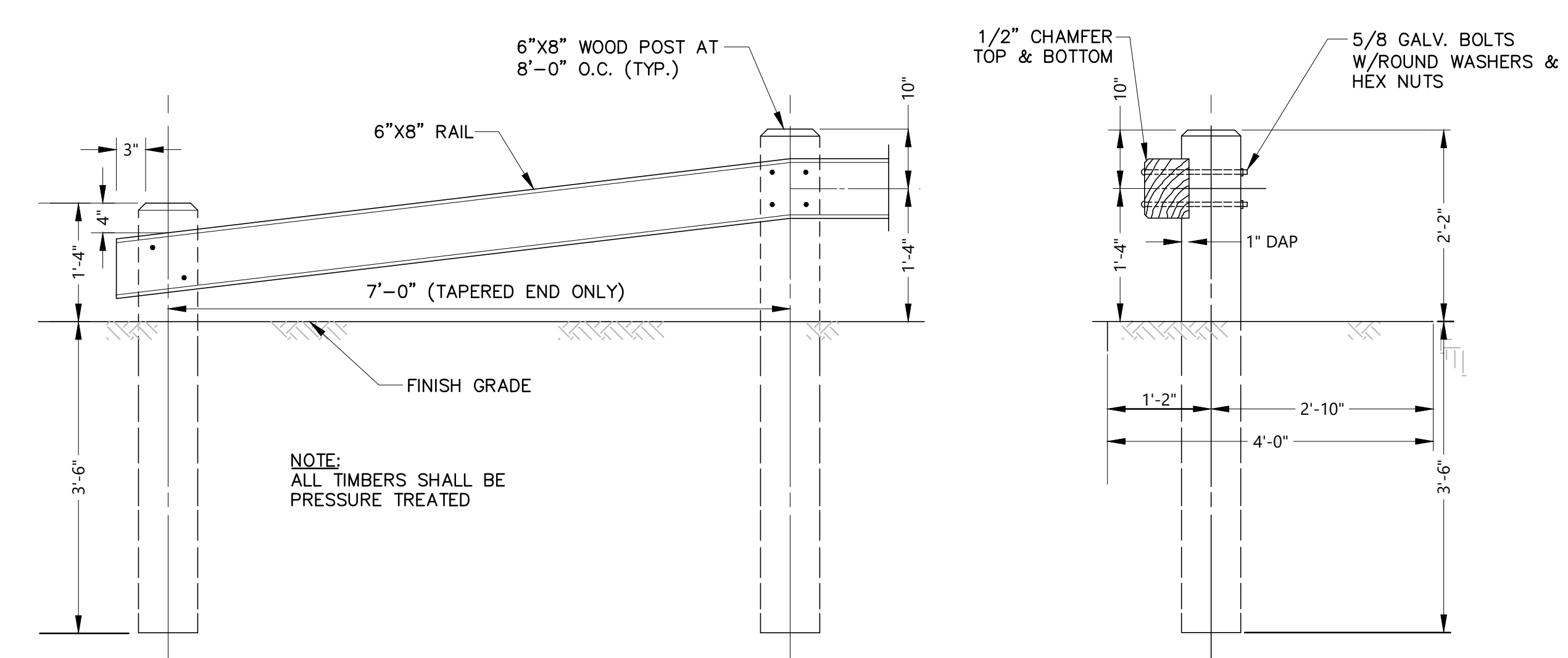


NOTES:  
1. TO BE INSTALLED IN ALL CATCH BASINS THAT COULD RECEIVE RUNOFF FROM DISTURBED AREAS UNTIL COMPLETION OF CONSTRUCTION.

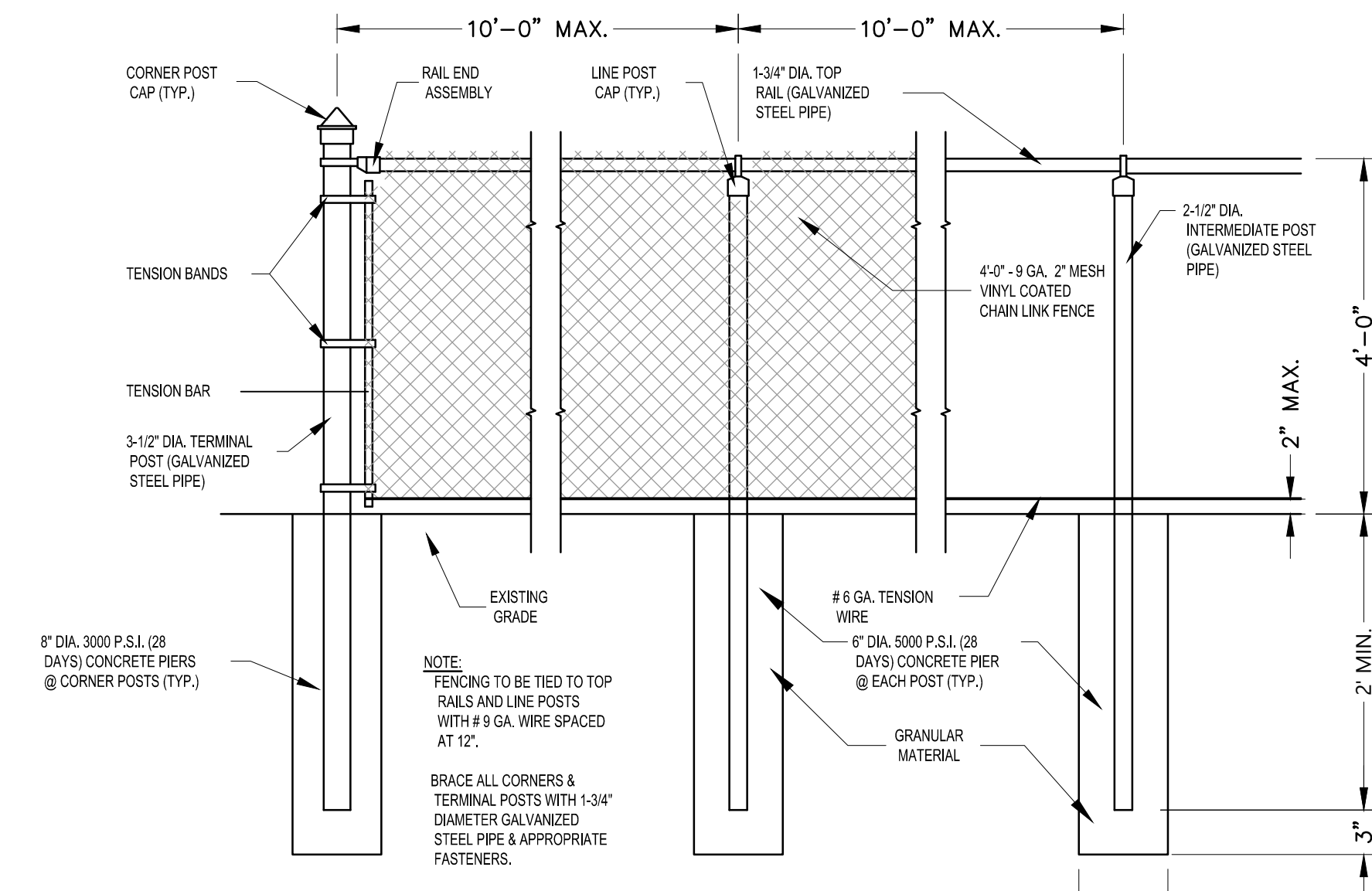
**SILT SACK DETAIL**  
NOT TO SCALE



**CONSTRUCTION CHAIN LINK FENCE**  
NOT TO SCALE



**WOOD BEAM GUARD RAIL DETAIL**  
NOT TO SCALE



**DETAIL @ CHAIN LINK FENCE**  
NOT TO SCALE

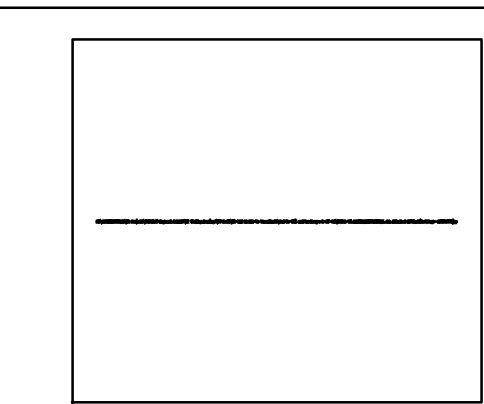
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PROJECT PHASE  
**BID SET**

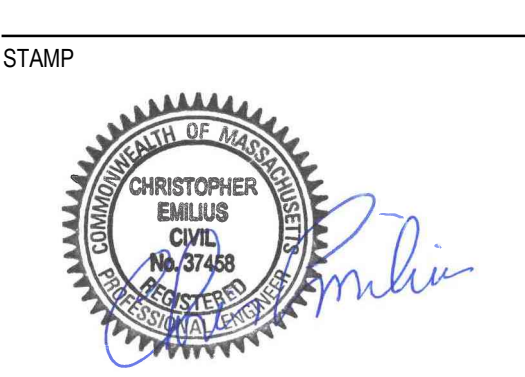
PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION  
**TOWN OF MAYNARD  
GREEN MEADOW  
ELEMENTARY SCHOOL  
EARLY SITE  
PREPARATION  
PACKAGE  
5 TIGER DRIVE  
MAYNARD, MA 01754**

DRAWING TITLE  
**DETAILS**



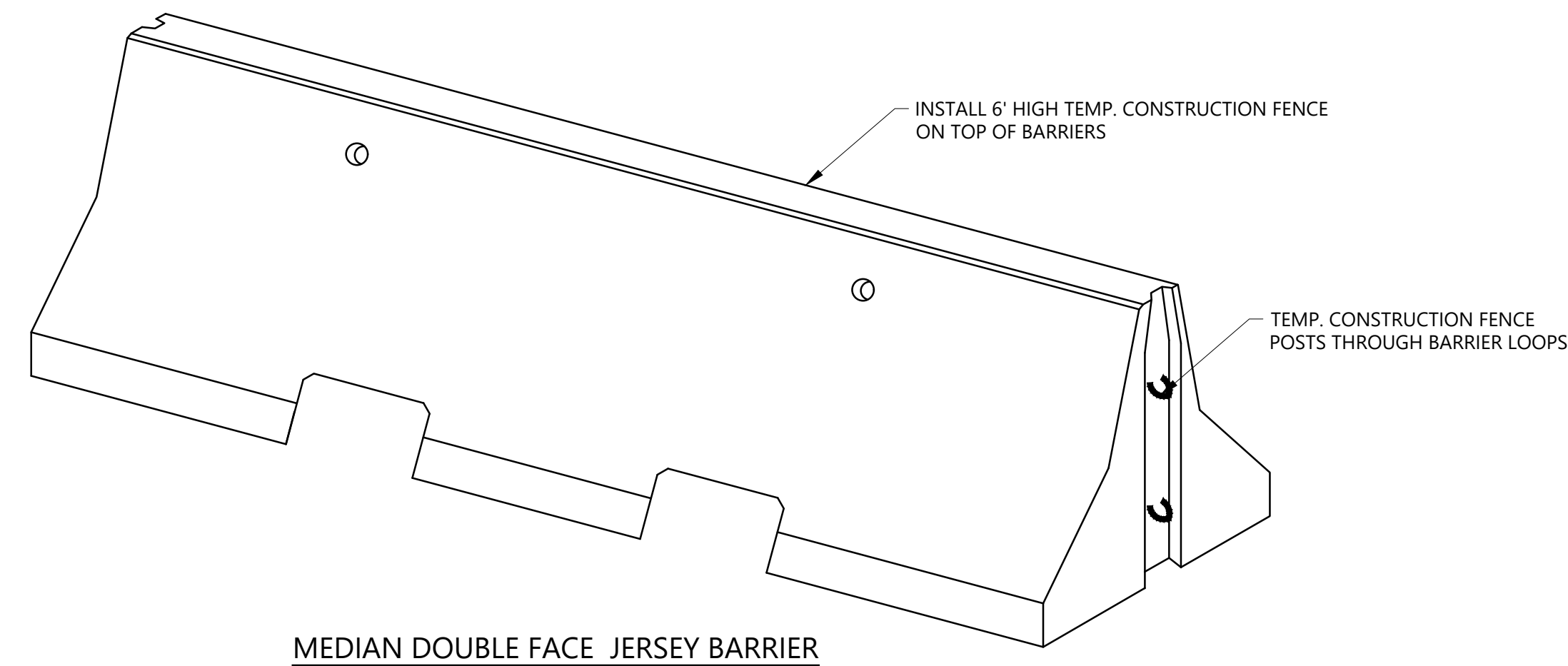
264 Exchange Street,  
Suite G7  
Chicopee, Massachusetts 01013  
413 592 9700 T  
413 592 9750 F  
info@mvgarchitects.com E



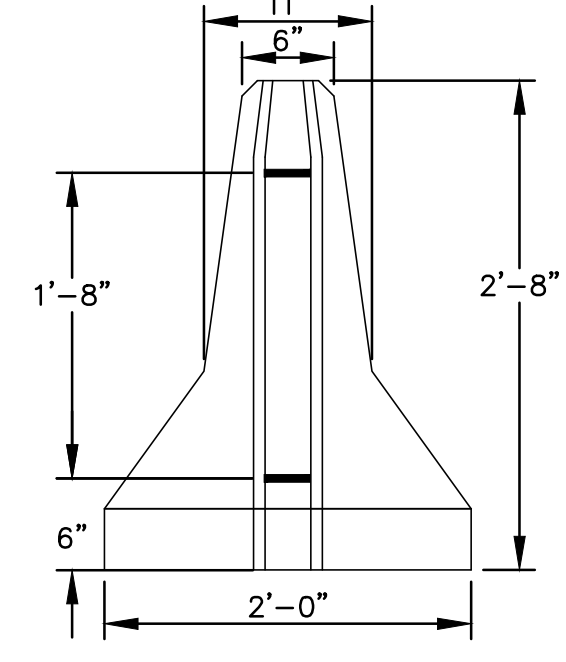
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| SCALE               | As Indicated |
| DRAWN BY            | CG           |
| CHECKED             | CE           |
| DATE                | MAY 22, 2024 |

DRAWING NUMBER

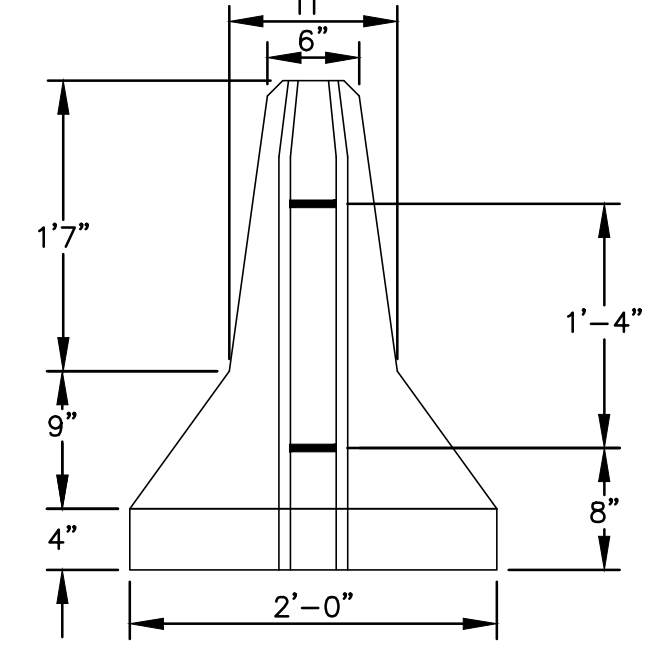
**DT-01**



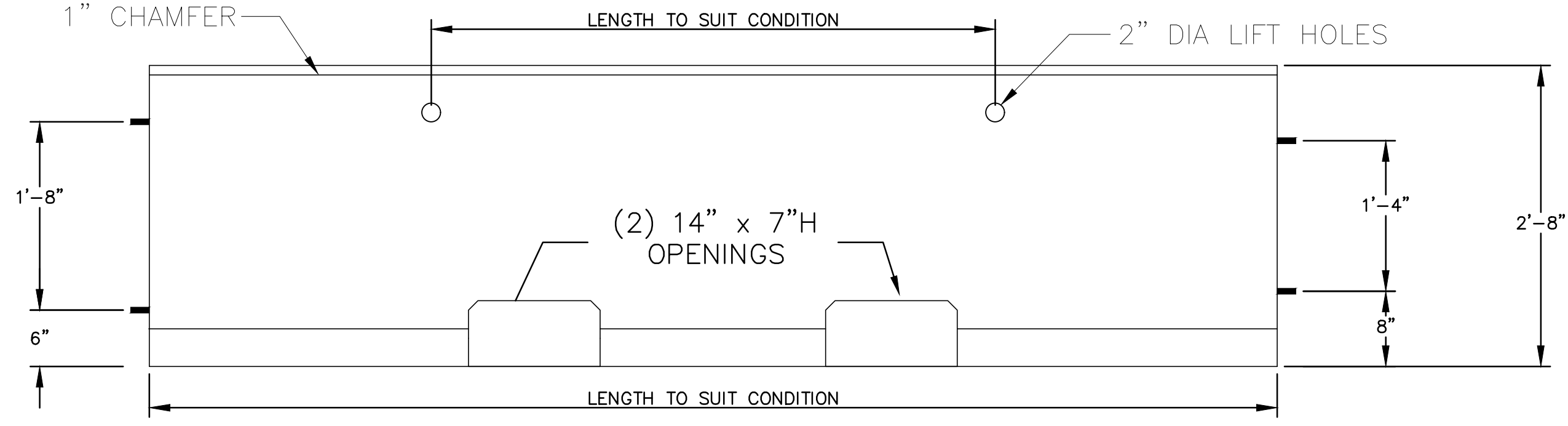
MEDIAN DOUBLE FACE JERSEY BARRIER  
NOT TO SCALE



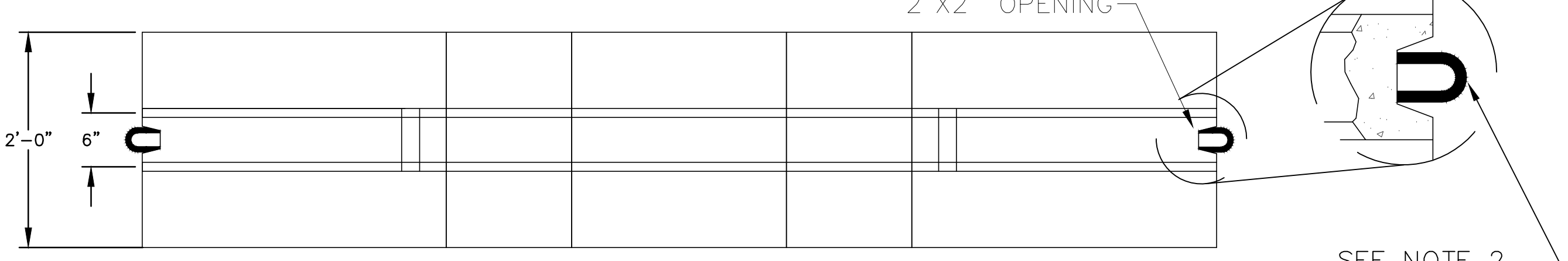
END VIEW



END VIEW



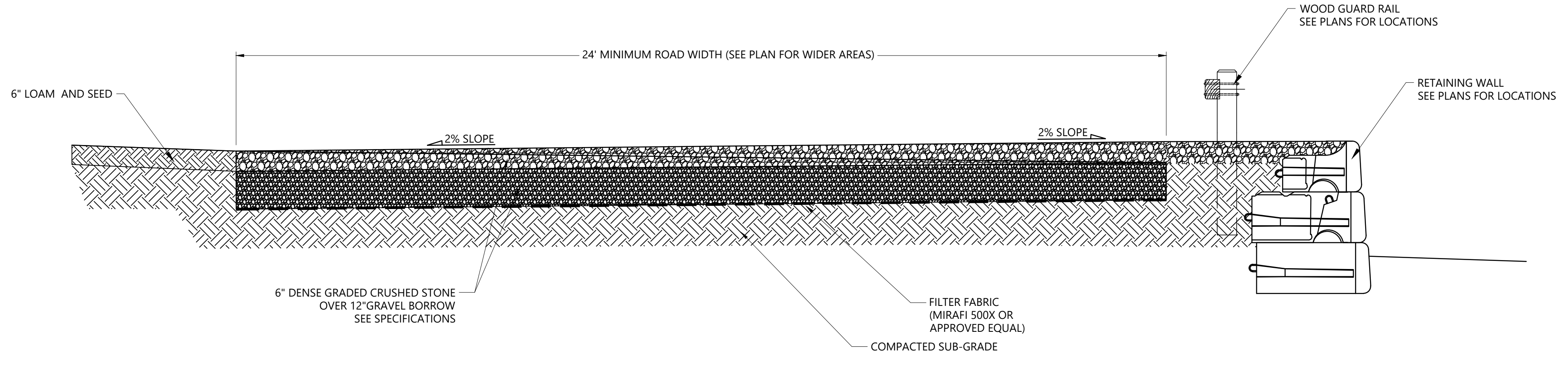
SIDE VIEW



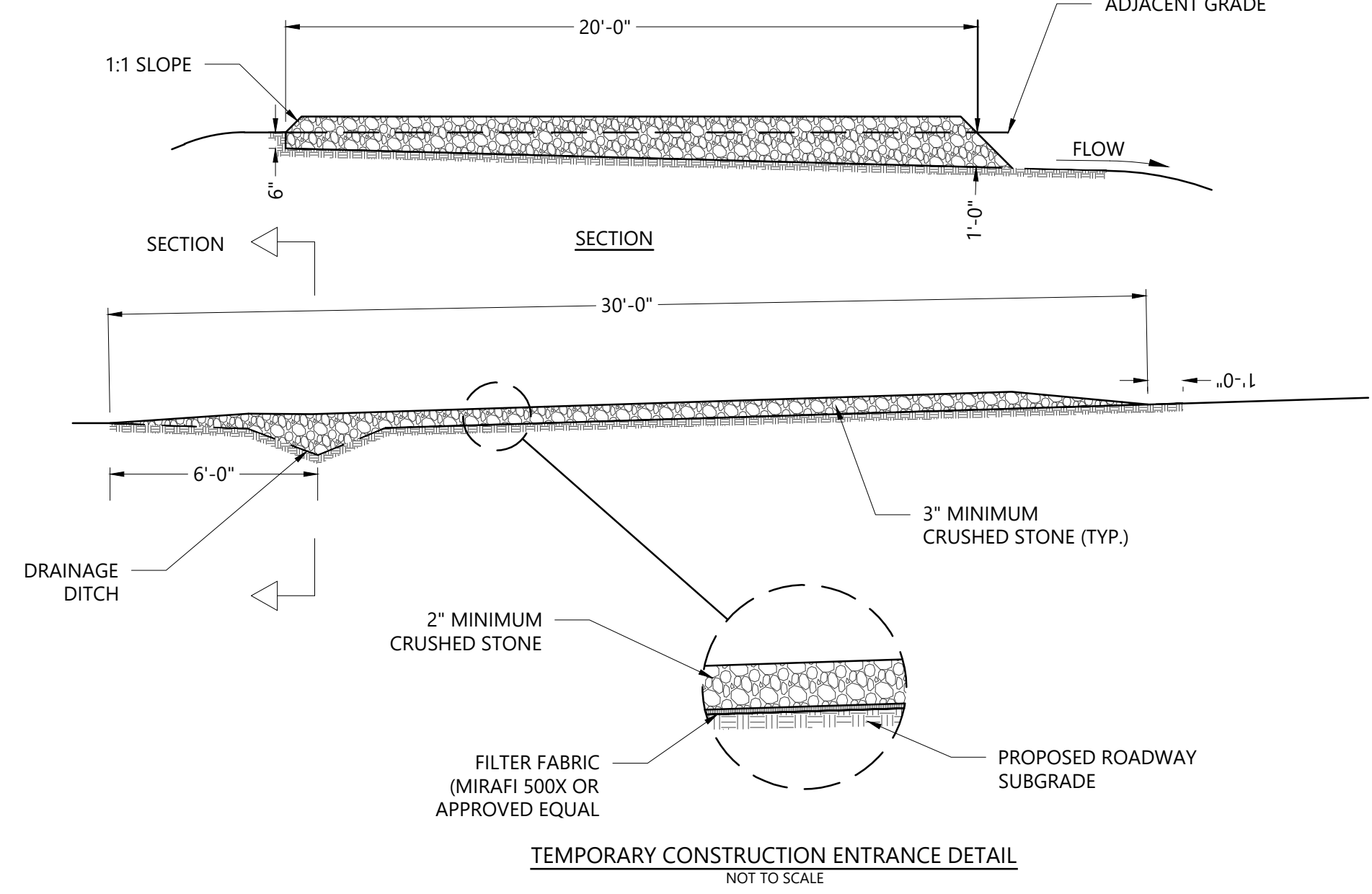
TOP VIEW

NOTES

- 1. CONCRETE FOR MEDIAN BARRIERS SHALL BE 4,000 PSI MINIMUM AFTER 28 DAYS.
- 2. #5 REBAR BENT TO RECEIVE 1" DIA CONNECTING ROD.
- 3. LIFTING HOLE ACCEPTS 1 1/2" DIA CONNECTING H.T. ROD.
- 4. BARRIER RENTAL AVAILABLE.
- 5. CONTRACTOR SHALL DETERMINE THE LENGTH AND QUANTITY OF BARRIERS NEEDED.
- 6. MINIMUM BARRIER LENGTH SHALL BE 5 FEET.
- 7. ALL APPROACH ENDS SHALL BE TAPERED.



TYPICAL GRAVEL ROAD SECTION  
NOT TO SCALE



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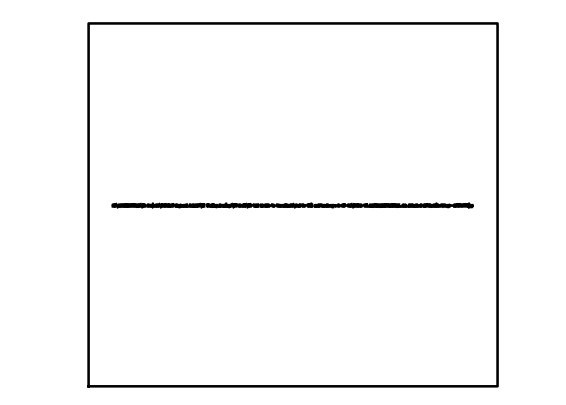
PROJECT PHASE  
**BID SET**

PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION  
**TOWN OF MAYNARD  
GREEN MEADOW  
ELEMENTARY SCHOOL  
EARLY SITE  
PREPARATION  
PACKAGE**

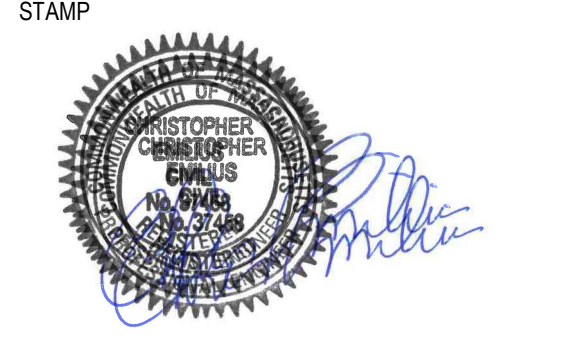
**5 TIGER DRIVE  
MAYNARD, MA 01754**

DRAWING TITLE  
**DETAILS**



264 Exchange Street,  
Suite G7  
Chicopee, Massachusetts 01013

413 592 9700 T  
413 592 9750 F  
info@mvgarchitects.com E

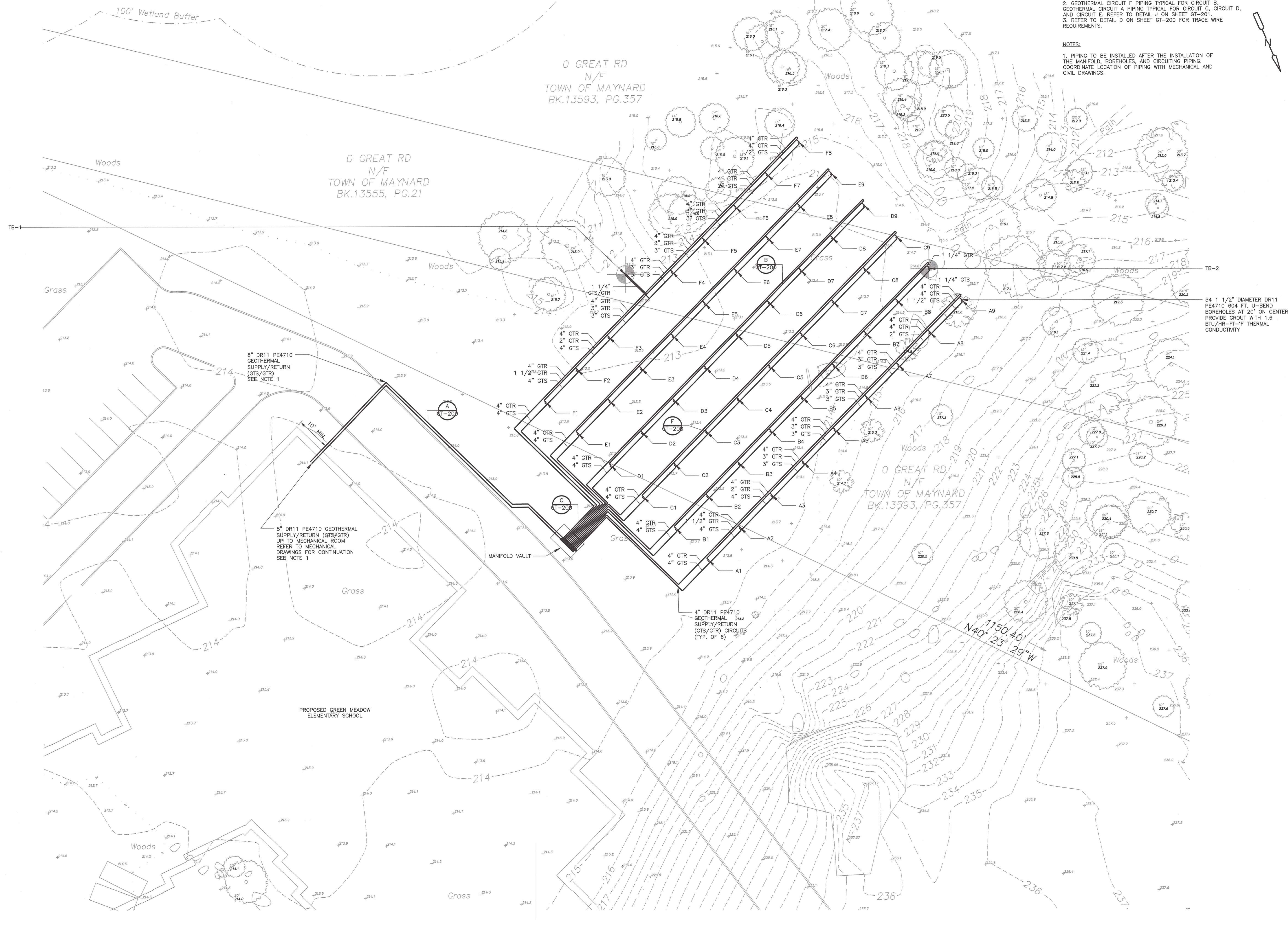


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| SCALE    | As Indicated |
| DRAWN BY | CG           |
| CHECKED  | CE           |
| DATE     | MAY 22, 2024 |

DRAWING NUMBER  
**DT-02**

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GENERAL NOTES:  
 1. SURVEY PERFORMED BY SAMOTES CONSULTANTS, INC., MARCH 2024. REFERENCED HORIZONTALLY TO THE MASSACHUSETTS STATE PLAN COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 AND VERTICALLY TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.  
 2. GEOTHERMAL CIRCUIT F PIPING TYPICAL FOR CIRCUIT E, GEOTHERMAL CIRCUIT A PIPING TYPICAL FOR CIRCUIT C, CIRCUIT D, AND CIRCUIT E. REFER TO DETAIL J ON SHEET GT-201.  
 3. REFER TO DETAIL D ON SHEET GT-200 FOR TRACE WIRE REQUIREMENTS.

NOTES:  
 1. PIPING TO BE INSTALLED AFTER THE INSTALLATION OF THE MANIFOLD, BOREHOLES, AND CIRCUITING PIPING. COORDINATE LOCATION OF PIPING WITH MECHANICAL AND CIVIL DRAWINGS.

54 1 1/2" DIAMETER DR11 PE4710 604 FT. U-BEND BOREHOLES AT 20' ON CENTER PROVIDE GROUT WITH 1.6 BTU/HR-FT-F THERMAL CONDUCTIVITY



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PROJECT PHASE  
**BID SET**

PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION  
**TOWN OF MAYNARD  
 GREEN MEADOW  
 ELEMENTARY SCHOOL  
 EARLY  
 SITE PREPARATION  
 PACKAGE  
 5 TIGER DRIVE  
 MAYNARD, MA 01754**

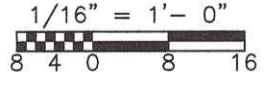
DRAWING TITLE  
**OVERALL BOREFIELD  
 PLAN**



| DRAWING INFORMATION |              |
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| SCALE               | As Indicated |
| DRAWN BY            | JK           |
| CHECKED             | JJ           |
| DATE                | MAY 22, 2024 |

DRAWING NUMBER

**GT-100**



OVERALL BOREFIELD  
**PLAN**  
 1/16" = 1'-0"

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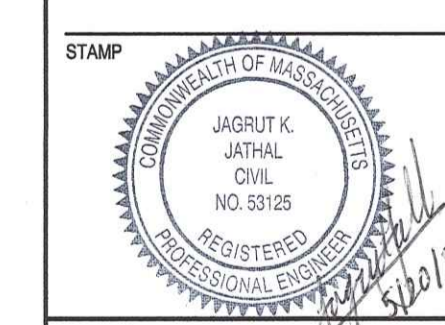
PROJECT PHASE  
**BID SET**

PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION  
**TOWN OF MAYNARD  
GREEN MEADOW  
ELEMENTARY SCHOOL  
EARLY  
SITE PREPARATION  
PACKAGE**  
5 TIGER DRIVE  
MAYNARD, MA 01754

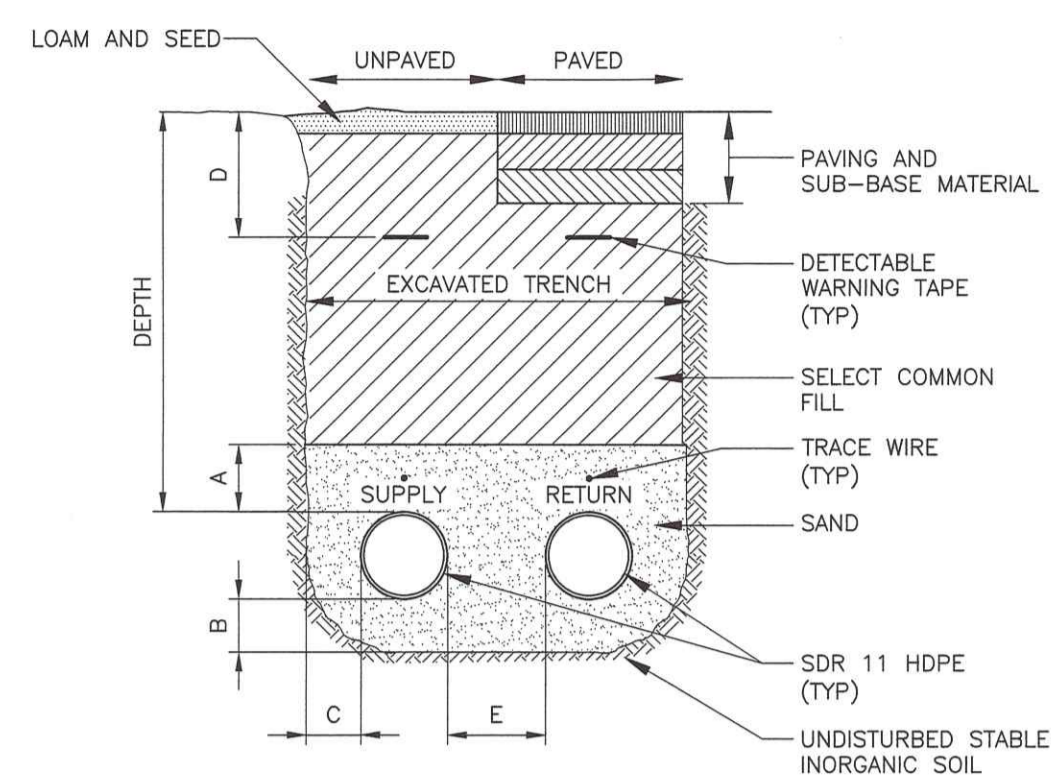
DRAWING TITLE  
**GEOTHERMAL DETAILS I**

**MVG**  
MOUNT VERNON GROUP  
ARCHITECTS  
284 Exchange Street,  
Suite G4  
Chicopee, Massachusetts 01013  
413 592 9700 T  
info@mvgarchitects.com E



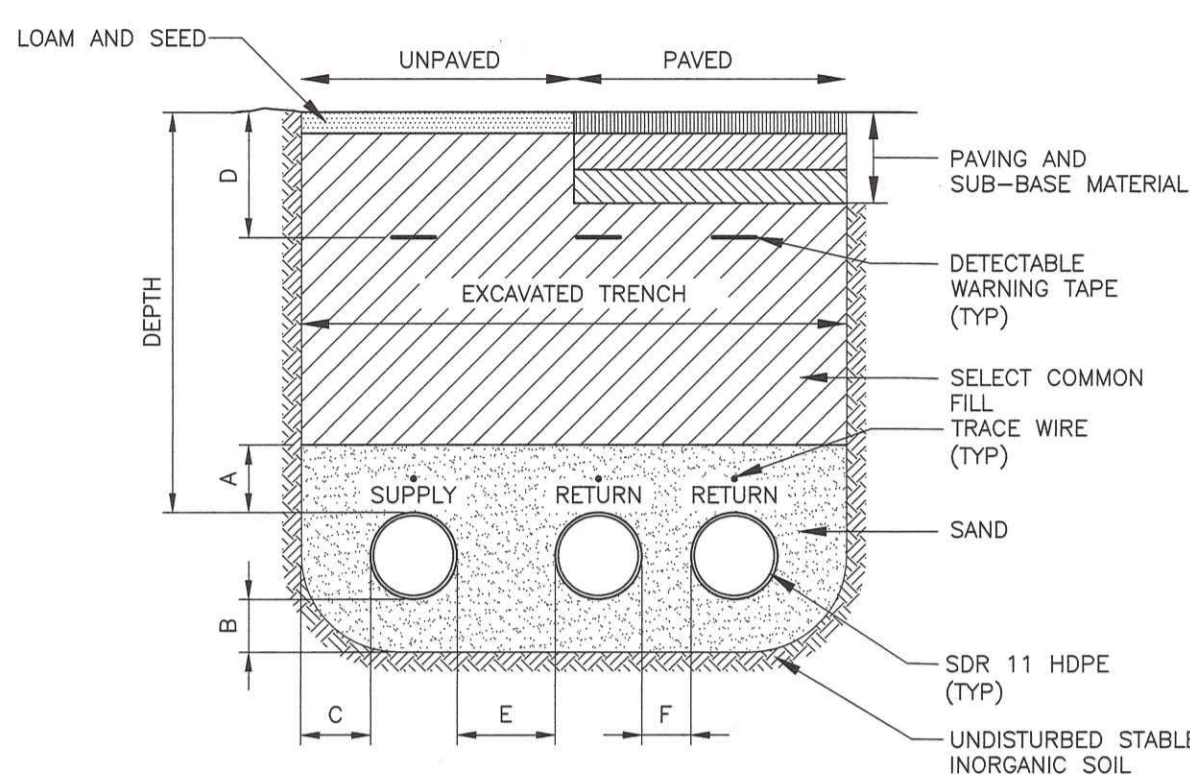
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| DRAWN BY            | JK           |
| CHECKED             | JJ           |
| DATE                | MAY 22, 2024 |
| DRAWING NUMBER      |              |

**GT-200**



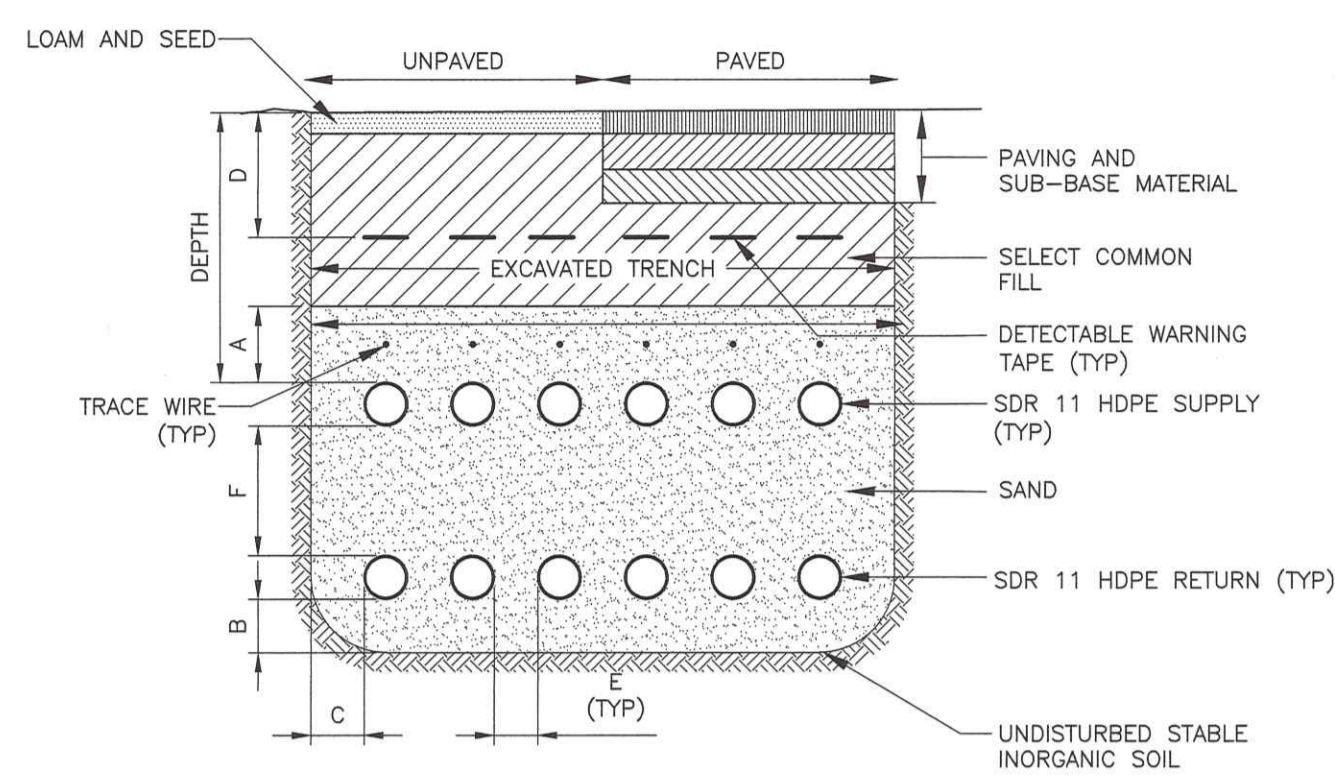
**TWO PIPE TRENCH  
DETAIL A**  
NTS

| PIPE NPT | DEPTH (MIN.) | DIMENSIONS |          |          |          |          |
|----------|--------------|------------|----------|----------|----------|----------|
|          |              | A (MIN.)   | B (MIN.) | C (MIN.) | D (MAX.) | E (MIN.) |
| 1/2-4    | 48"          | 12"        | 6"       | 6"       | 24"      | 12"      |
| 6-12     | 48"          | 12"        | 12"      | 12"      | 24"      | 12"      |



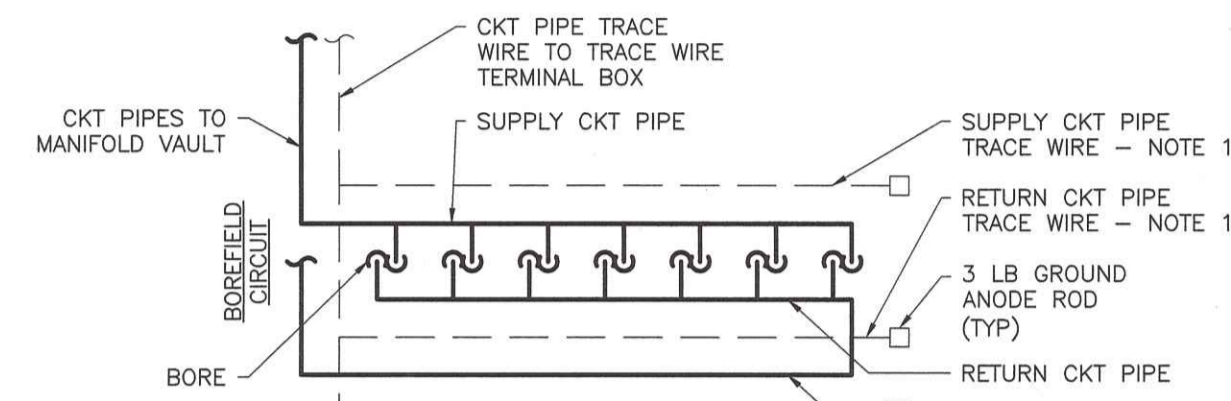
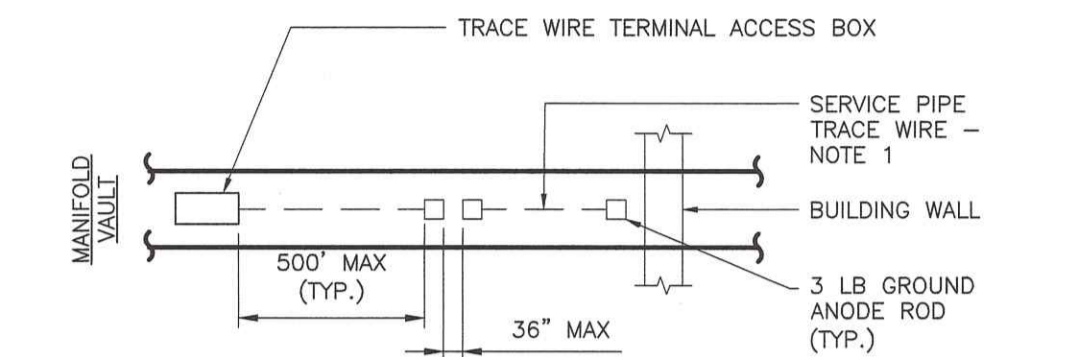
**THREE PIPE TRENCH  
DETAIL B**  
NTS

| PIPE NPT | DEPTH (MIN.) | DIMENSIONS |          |          |          |          |          |
|----------|--------------|------------|----------|----------|----------|----------|----------|
|          |              | A (MIN.)   | B (MIN.) | C (MIN.) | D (MAX.) | E (MIN.) | F (MIN.) |
| 1/2-4    | 48"          | 12"        | 6"       | 6"       | 24"      | 12"      | 3"       |
| 6-12     | 48"          | 12"        | 12"      | 12"      | 24"      | 12"      | 6"       |



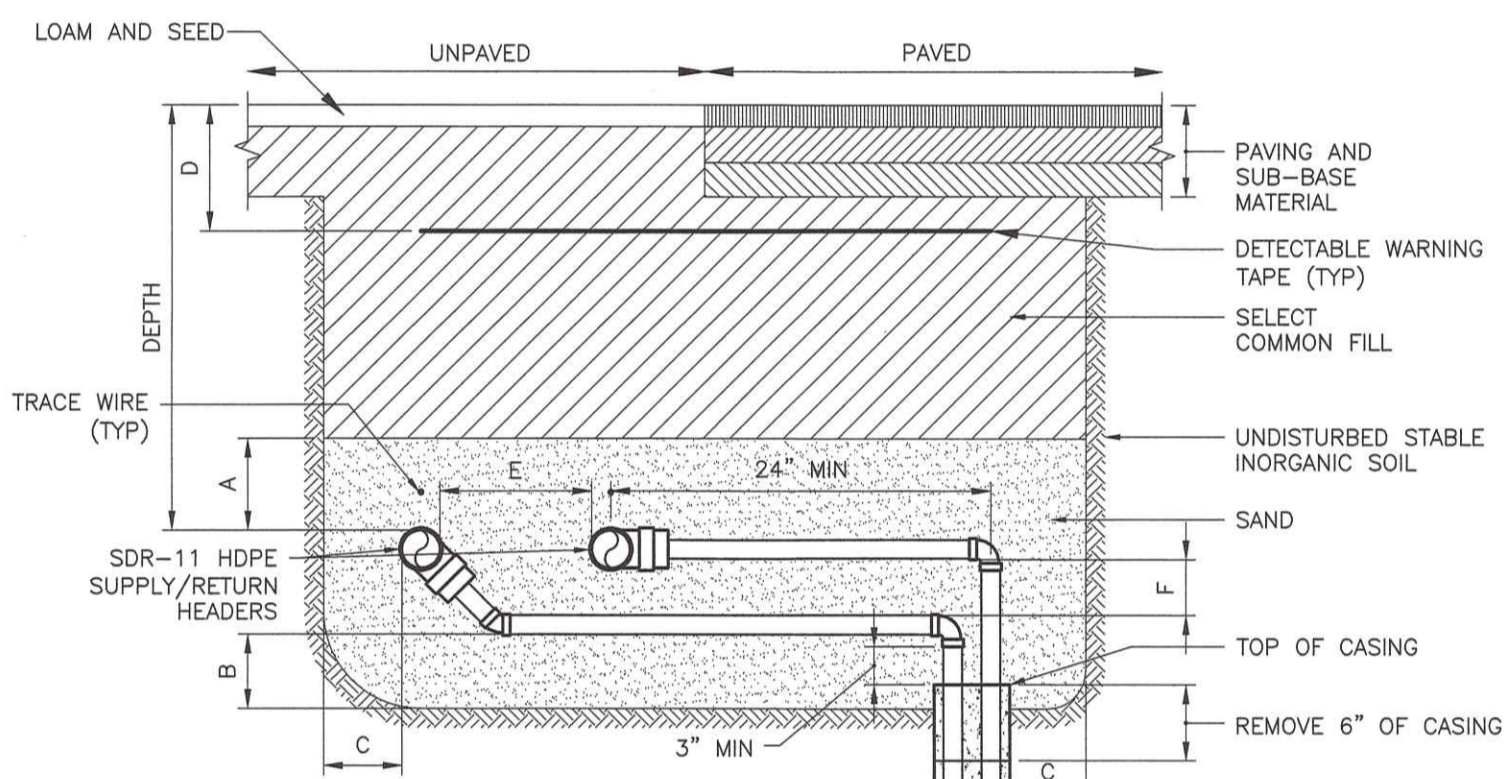
**STACKED PIPE TRENCH  
DETAIL C**  
NTS

| PIPE NPT | DEPTH (MIN.) | DIMENSIONS |          |          |          |          |          |
|----------|--------------|------------|----------|----------|----------|----------|----------|
|          |              | A (MIN.)   | B (MIN.) | C (MIN.) | D (MAX.) | E (MIN.) | F (MIN.) |
| 1/2-4    | 48"          | 12"        | 6"       | 6"       | 24"      | 3"       | 6"       |
| 6-12     | 48"          | 12"        | 12"      | 12"      | 24"      | 6"       | 12"      |



**TRACE WIRE  
DETAIL D**  
NTS

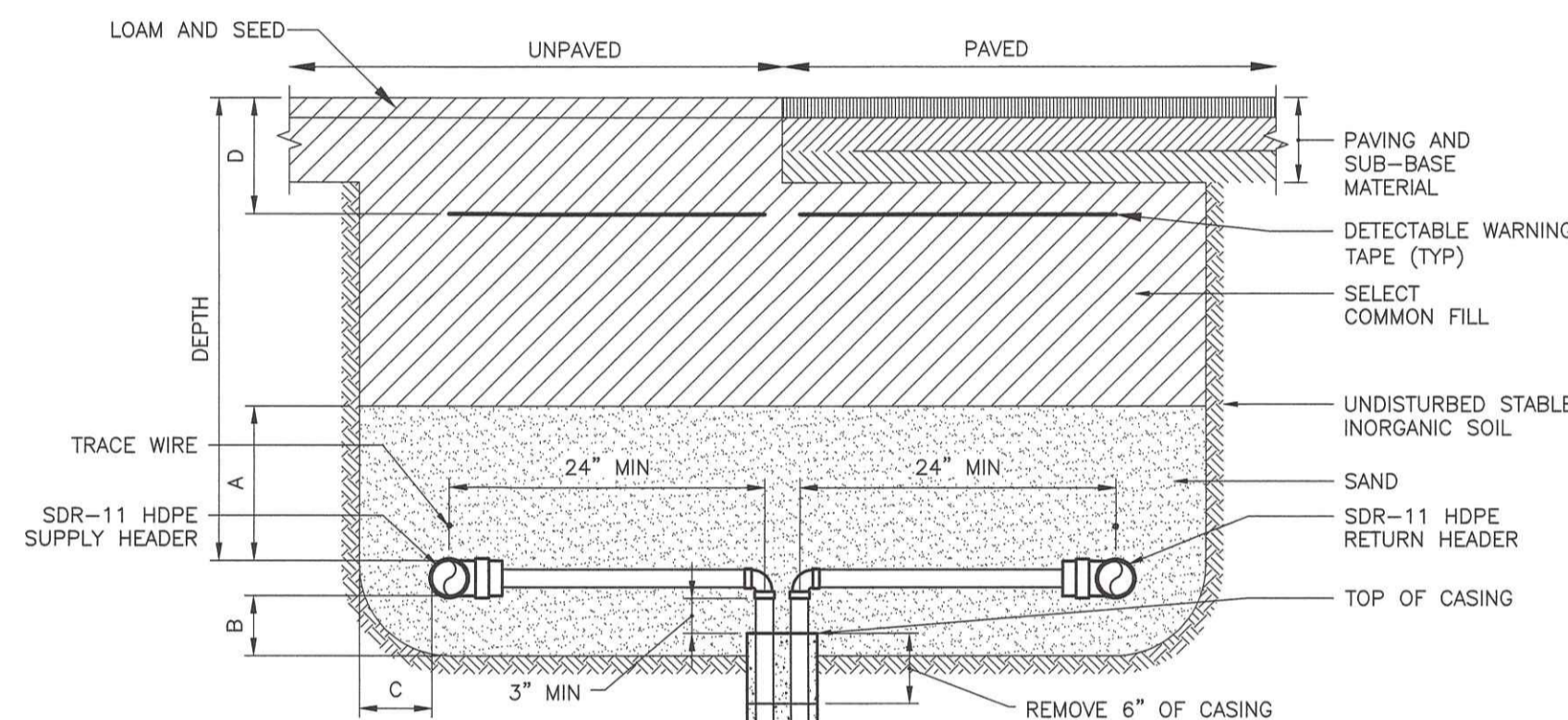
- NOTES:
- TRACE WIRE TO BE INSTALLED WITH 6"±2" CLEARANCE FROM FROM PIPE ABOVE OR ALONGSIDE.
  - ROUTE BOREFIELD CKT TRACE WIRES TO TERMINATE IN TRACE WIRE TERMINAL ACCESS BOX. ALLOW ENOUGH WIRE TO EXTEND 24" ABOVE GRADE AT ACCESS BOX. FOR TRENCHLESS PIPE INSTALLATIONS THE MINIMUM CLEARANCE IS WAIVED. FOR HORIZONTAL DIRECTIONAL DRILL INSTALLATIONS USE #10 STRANDED STAINLESS WIRE.



**SINGLE SIDE BOREHOLE CONNECTION  
DETAIL E**  
NTS

- NOTES:
- REFER TO BOREFIELD SCHEDULE FOR DIMENSIONS AND PHYSICAL CHARACTERISTICS.
  - SEE TRENCH DETAILS FOR TRACER WIRE REQUIREMENTS

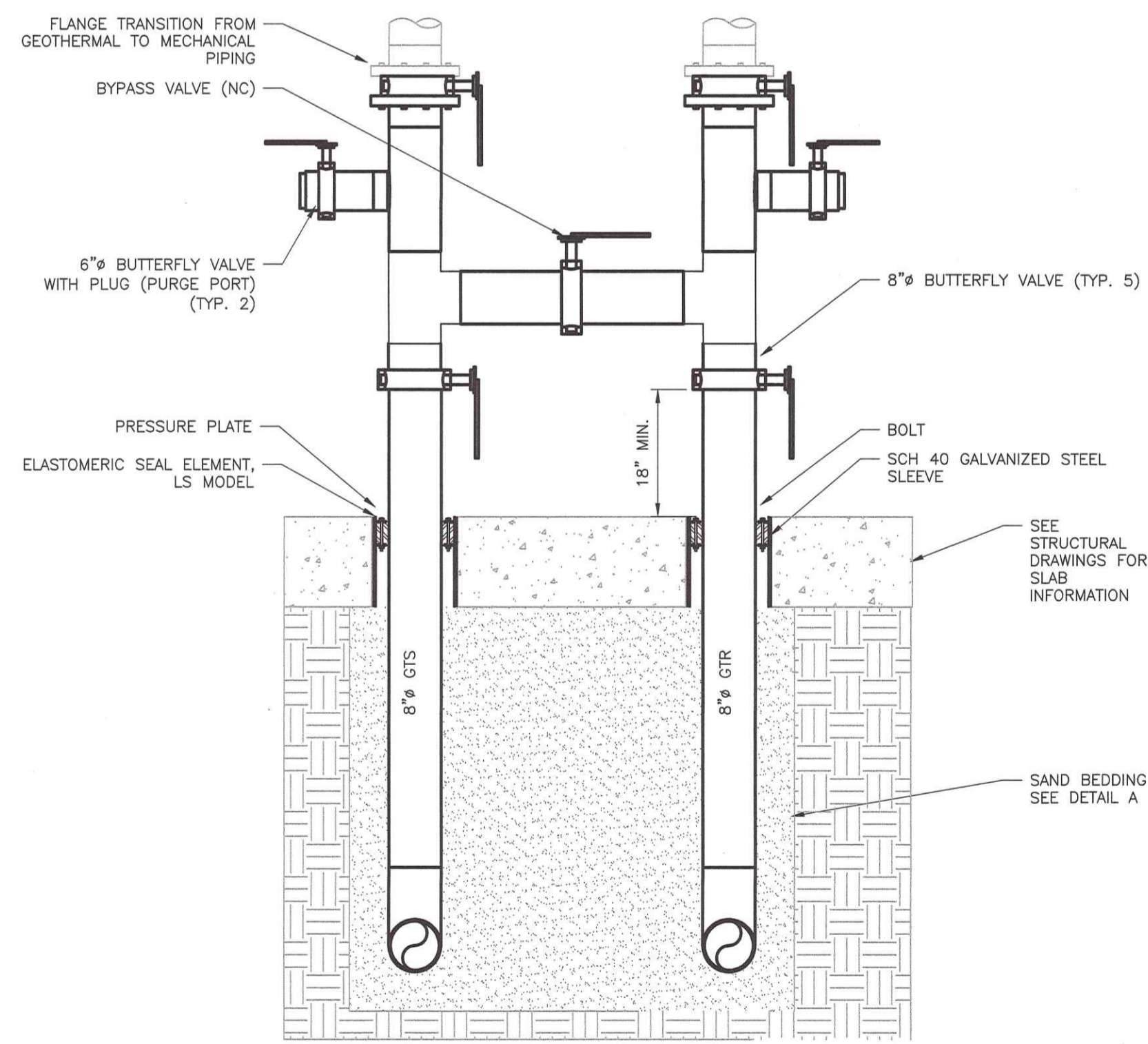
| PIPE NPT | DEPTH (MIN.) | DIMENSIONS |          |          |          |          |          |
|----------|--------------|------------|----------|----------|----------|----------|----------|
|          |              | A (MIN.)   | B (MIN.) | C (MIN.) | D (MAX.) | E (MIN.) | F (MIN.) |
| 1/2-4    | 48"          | 12"        | 6"       | 6"       | 24"      | 12"      | 6"       |
| 6-12     | 48"          | 12"        | 12"      | 12"      | 24"      | 12"      | 12"      |



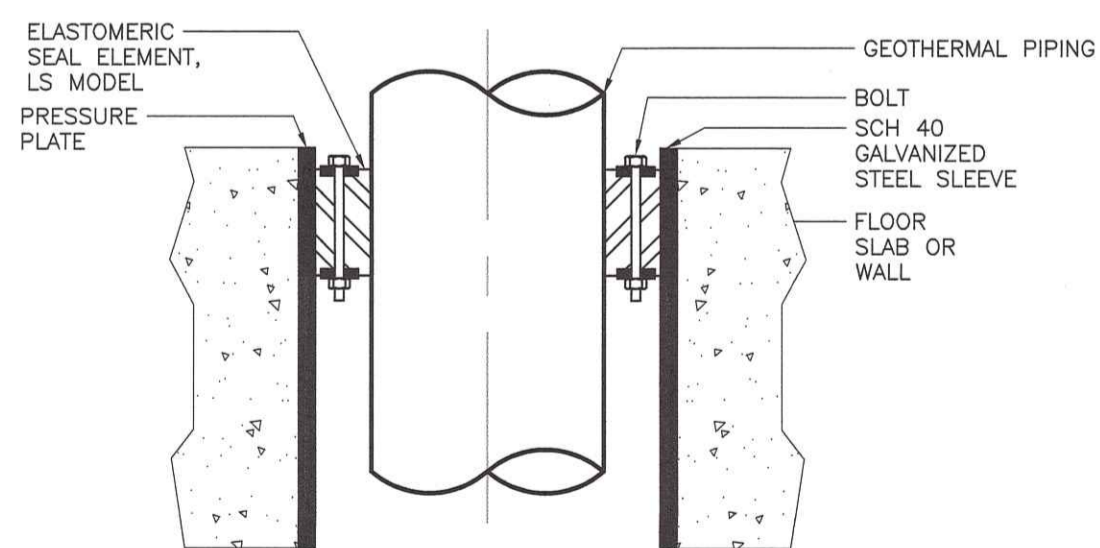
**TWO SIDE BOREHOLE CONNECTION  
DETAIL F**  
NTS

- NOTES:
- REFER TO BOREFIELD SCHEDULE FOR DIMENSIONS AND PHYSICAL CHARACTERISTICS.
  - SEE TRENCH DETAILS FOR TRACER WIRE REQUIREMENTS

| PIPE NPT | DEPTH (MIN.) | DIMENSIONS |          |          |          |
|----------|--------------|------------|----------|----------|----------|
|          |              | A (MIN.)   | B (MIN.) | C (MIN.) | D (MAX.) |
| 1/2-4    | 48"          | 12"        | 6"       | 6"       | 24"      |
| 6-12     | 48"          | 12"        | 12"      | 12"      | 24"      |



**GEOTHERMAL TO MECHANICAL PIPING TRANSITION SECTION  
DETAIL H**  
NTS



**TYPICAL PIPE PENETRATION THROUGH NEW STRUCTURES  
DETAIL G**  
NTS



| REVISIONS |             |      |
|-----------|-------------|------|
| NUMBER    | DESCRIPTION | DATE |
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PROJECT PHASE  
BID SET

PROJECT NUMBER

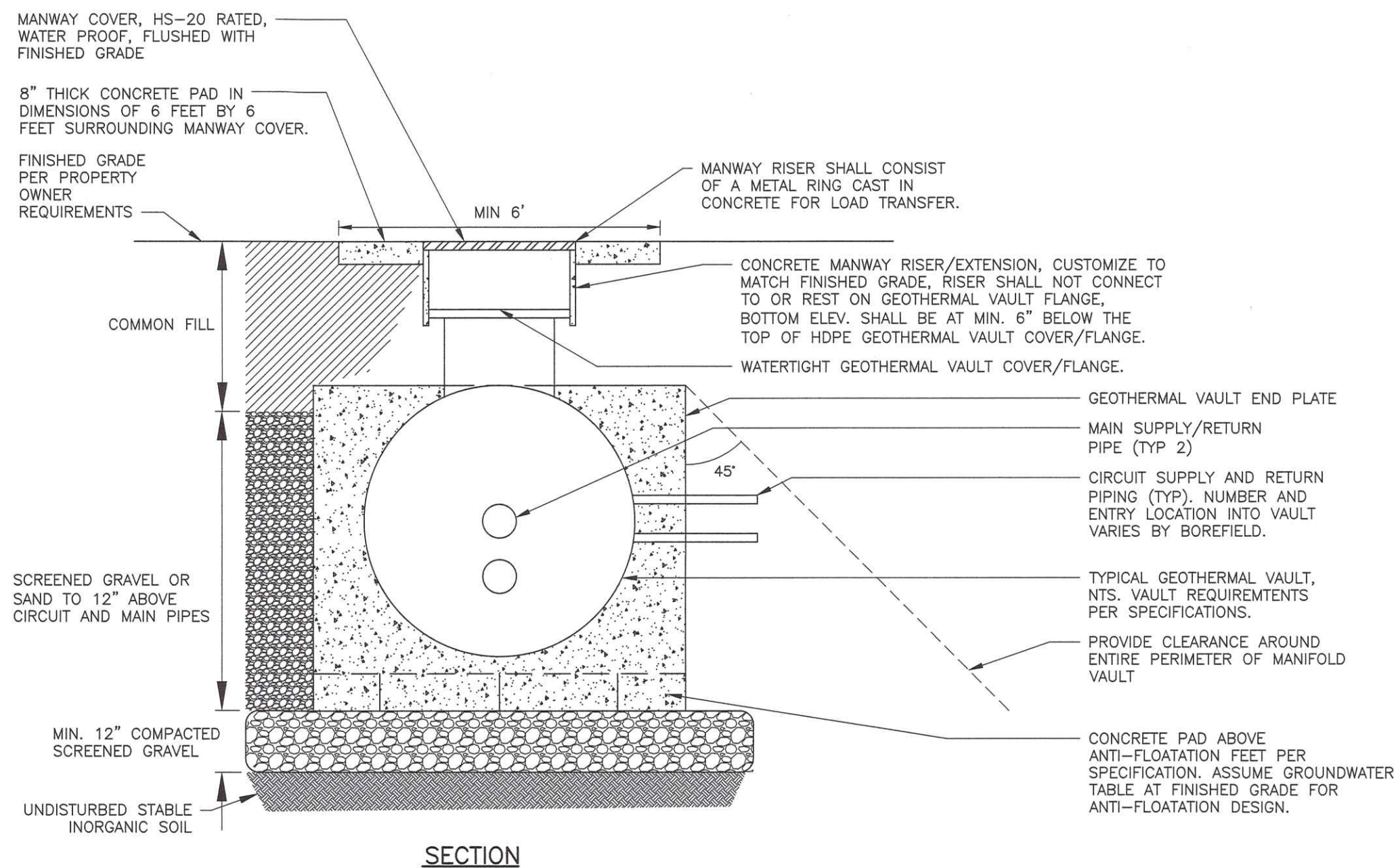
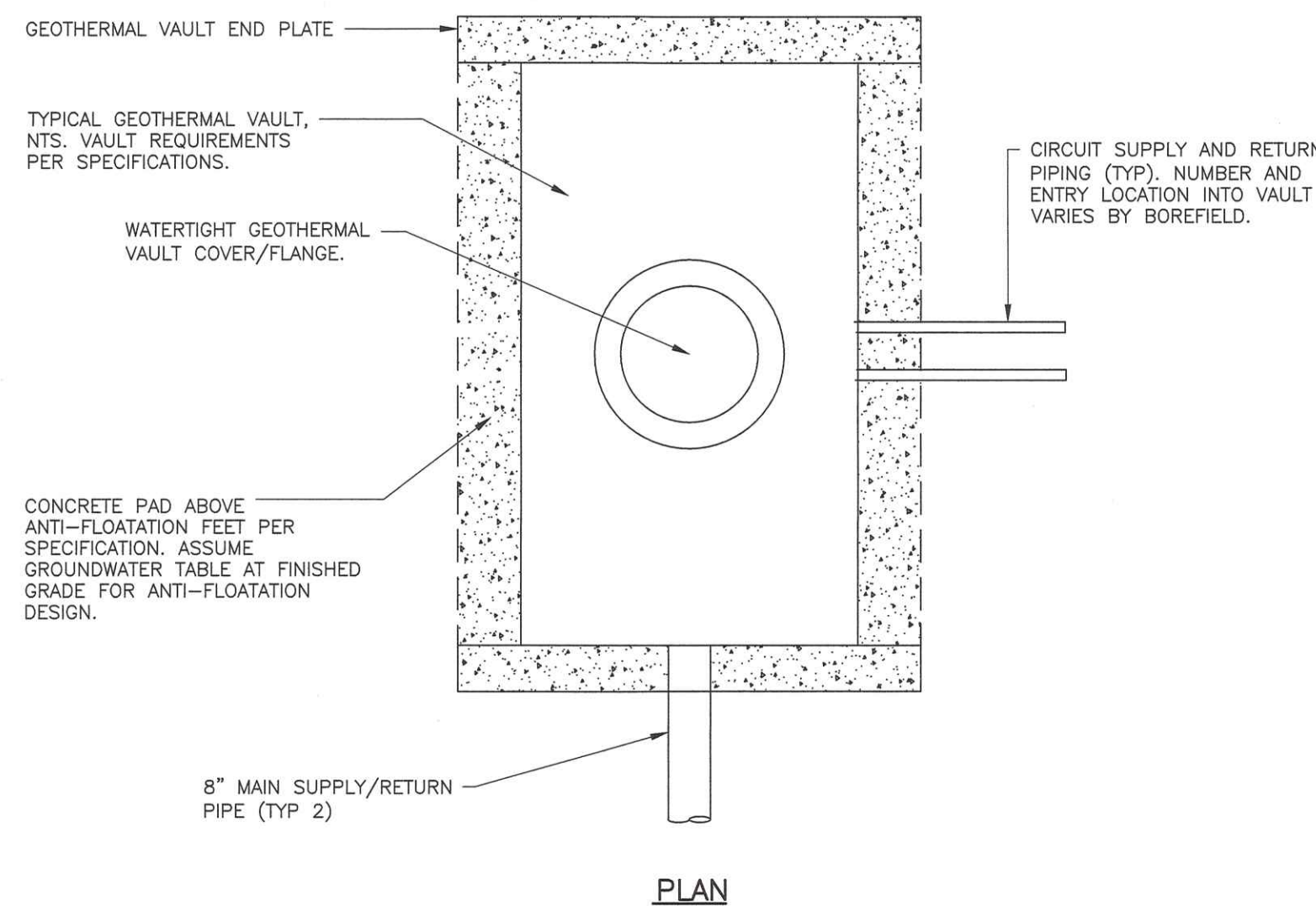
OWNER / PROJECT NAME / LOCATION  
TOWN OF MAYNARD  
GREEN MEADOW  
ELEMENTARY SCHOOL  
EARLY  
SITE PREPARATION  
PACKAGE  
5 TIGER DRIVE  
MAYNARD, MA 01754

DRAWING TITLE  
GEOTHERMAL DETAILS II

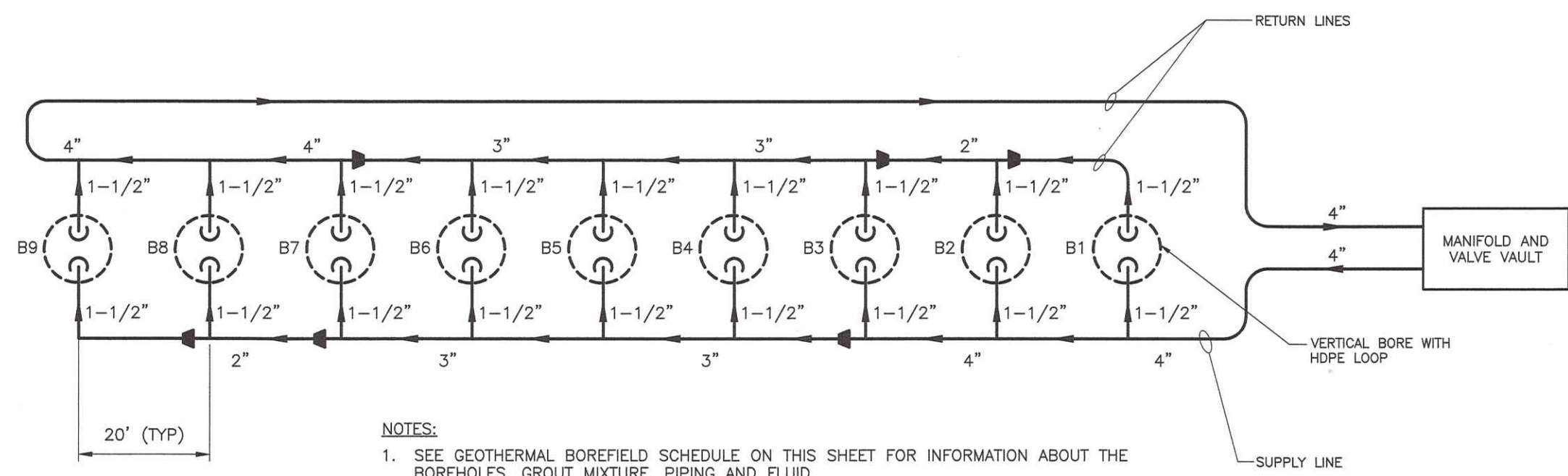
284 Exchange Street,  
Suite G4  
Chicopee, Massachusetts 01013  
413 592 9700 T  
info@mvgarchitects.com E

| DRAWING INFORMATION |              |
|---------------------|--------------|
| SCALE               | As Indicated |
| DRAWN BY            | JK           |
| CHECKED             | JJ           |
| DATE                | MAY 22, 2024 |

DRAWING NUMBER  
**GT-201**



MANIFOLD AND VALVE VAULT  
DETAIL I  
NTS



NOTES:  
1. SEE GEOTHERMAL BOREFIELD SCHEDULE ON THIS SHEET FOR INFORMATION ABOUT THE BOREHOLES, GROUT MIXTURE, PIPING AND FLUID.  
2. BOREHOLES TYPICALLY SPACED 20' ON CENTER BUT CAN VARY.  
3. TEST BOREHOLES (TB-1 AND TB-2) ARE 1/4" SDR HDPE LOOPS. INSTALL 1 1/4" HORIZONTAL CIRCUIT PIPING TO EACH TEST BOREHOLE.

GEOTHERMAL CIRCUIT SCHEMATIC  
DETAIL J  
NTS

| BOREFIELD SCHEDULE                       |                              |
|--|------------------------------|
| GEOTHERMAL BOREHOLES                     |                              |
| NUMBER OF BORES / LOOPS                  | 54                           |
| BORE / LOOP DEPTH                        | 604 FT. EA.                  |
| NUMBER OF CIRCUITS                       | 6                            |
| NUMBER OF LOOPS PER CIRCUIT              | 9                            |
| GROUT MIXTURE                            |                              |
| GROUT TYPE                               | THERMALLY ENHANCED BENTONITE |
| GROUT MIN. THERMAL CONDUCTIVITY          | 1.6 BTU/HR-FT-F              |
| GEOTHERMAL PIPE                          |                              |
| LOOP TYPE                                | 1-1/2" SDR 11 HDPE           |
| REVERSE/RETURN CIRCUIT PIPE SIZES        | 4", 3", 2", 1-1/2"           |
| HEADER PIPE SIZE                         | 8"                           |
| PIPE MATERIAL (REVERSE/RETURN CIRCUIT)   | HDPE SDR-11                  |
| PIPE MATERIAL (LOOP)                     | HDPE (PE4710) SDR-11         |
| FLUID INFORMATION                        |                              |
| FLUID                                    | 25% PROPYLENE GLYCOL         |
| MINIMUM ENTERING WATER TEMPERATURE       | 40°F                         |
| MAXIMUM ENTERING WATER TEMPERATURE       | 90°F                         |
| CIRCUIT A MAX FLOWRATE                   | 153 GPM                      |
| CIRCUIT B MAX FLOWRATE                   | 139 GPM                      |
| CIRCUIT C MAX FLOWRATE                   | 153 GPM                      |
| CIRCUIT D MAX FLOWRATE                   | 153 GPM                      |
| CIRCUIT E MAX FLOWRATE                   | 153 GPM                      |
| CIRCUIT F MAX FLOWRATE                   | 139 GPM                      |
| MINIMUM CIRCUIT FLUSHING FLOWRATE        | 158 GPM - 4 FT/S             |
| PEAK FLOW - BOREFIELD PRESSURE HEAD LOSS | 890 GPM - 65 FT. H2O         |

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