

APPROVAL UNDER THE
SUBDIVISION CONTROL LAW,
IS REQUIRED.
MEDWAY PLANNING AND ECONOMIC
DEVELOPMENT BOARD

DEFINITIVE SUBDIVISION PLAN

"BOUNDARY LANE"

MEDWAY, MASSACHUSETTS

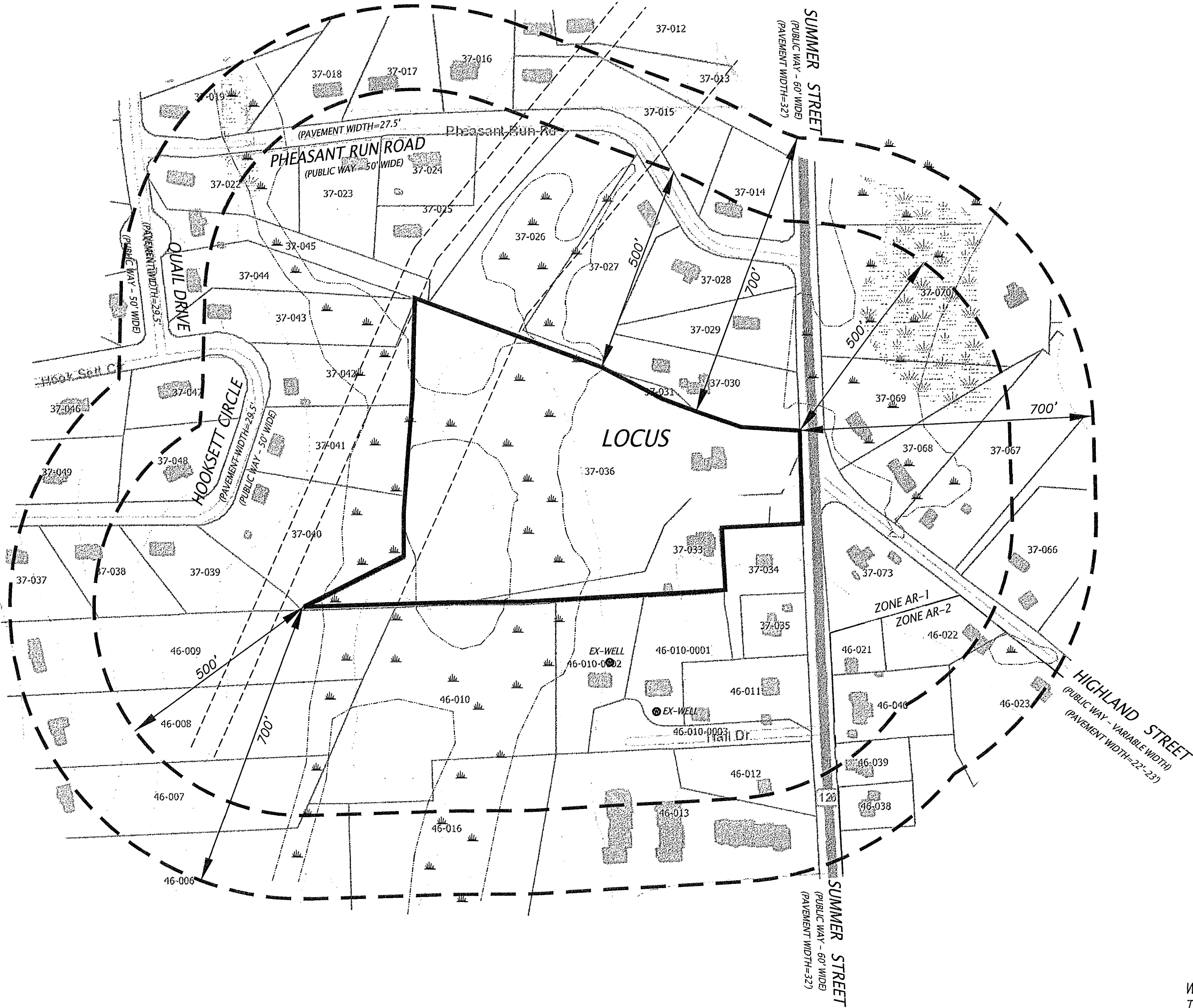
DATE: _____

THIS PLAN IS SUBJECT TO A COVENANT
TO BE RECORDED HEREWITH.

THIS PLAN IS SUBJECT TO A CERTIFICATE
OF ACTION WHICH SHALL BE RECORDED
WITH THE PLAN AT THE NORFOLK COUNTY
REGISTRY OF DEEDS.

LIST OF REQUESTED WAIVERS

- Section 7.6.2.b** Waiver to not require installation of an extension of Municipal water within the proposed roadway. Proposed Lot 2 containing the new house would be serviced by an on-site private well.
- Section 7.7.2.p** Waiver to allow less than a 30 foot setback from drainage basins to the proposed private road and Lot 1. The 30 foot buffer would be maintained to both Summer Street and the northerly abutter.
- Section 7.7.4.d** Waiver from the requirement to install an independent drainage system to collect foundation perimeter drains. The only new house would be on Lot 2. This lot would discharge any foundation drainage the rear of the property away from the roadway.
- Section 7.9.5.a** Waiver to allow a minimum center line grade of one percent (1%) to reduce the required earthwork and more closely match the existing conditions.
- Section 7.9.5.c** Waiver to allow a vertical curve within the leveling area (not fixed slope). All slopes would be below the maximum 2% threshold.
- Section 7.10.1 & 2** Waiver from the requirement curbs and berms. The project has been proposed with low impact development (LID) grassed swales in place of traditional curbs and gutters.
- Section 7.21** Waiver from installation of additional street lighting. The existing utility pole on Summer Street located 50 feet north of the proposed roadway includes a street light.



PLAN INDEX

| SHEET NUMBER | DRAWING TITLE |
|--------------|---------------------------------------|
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| 2-2 | LAND PLAN |
| 1-6 | EXISTING CONDITIONS PLAN |
| 2-6 | CONSTRUCTION PLAN |
| 3-6 | ROADWAY PLAN & PROFILE |
| 4-6 | EROSION & SEDIMENT CONTROL PLAN |
| 5-6 | CONSTRUCTION DETAILS |
| 6-6 | STORM WATER POLLUTION PREVENTION PLAN |

SITE AREA TABULATION:

TOTAL AREA OF LAND THAT IS BEING SUBDIVIDED = 491,855 S.F. (11.29 Acres)
TOTAL NUMBER OF LOTS AND PARCELS = 3 LOTS, 1 PARCEL
TOTAL AREA OF LOTS AND PARCELS = 470,693 S.F. (346,777 S.F. UPLAND, 123,916 S.F. WETLAND)
TOTAL AREA DEDICATED FOR STREET PURPOSES = 21,162 S.F.
TOTAL AREA NOT INCLUDED FOR STREETS, LOTS OR PARCELS
DEDICATED FOR DRAINAGE, SEWER, OR UTILITY EASEMENTS = 0 S.F.
TOTAL AREA RESERVED FOR OPEN SPACE, PARKS, SCHOOLS AND OTHER PUBLIC USE = 0 S.F.
SUMMARY: 470,693 S.F. + 21,162 S.F. + 0 + 0 = 491,855 S.F.

GENERAL NOTES:

- OWNERS OF ADJOINING PROPERTIES ARE SHOWN ACCORDING TO CURRENT TOWN OF MEDWAY ASSESSORS RECORDS.
- THIS PLAN IS BASED ON AN ON-THE-GROUND SURVEY BY CONNORSTONE ENGINEERING INC. PERFORMED IN APRIL 2019.
- LEGAL STATUS OF EASEMENTS AND WAYS, NOT DETERMINED BY THIS SURVEY.

ADA / AAB REQUIREMENTS:

ALL IMPROVEMENTS, RAMPS, CURB CUTS, SIDEWALKS, AND DRIVEWAY CROSSINGS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT REGULATIONS AND WITH ARCHITECTURAL ACCESS BOARD REGULATIONS (521 CMR S 1-47) IN FORCE AND EFFECTIVE AT THE TIME OF CONSTRUCTION.

ZONED: AR-1
AREA = 44,000 sf
FRONTAGE = 180 feet
SETBACKS: FRONT = 35 feet
SIDE = 15 feet
REAR = 15 feet

ASSESSOR MAP 37, LOTS 33 & 36

APPLICANT:

ZACHARY T. LINDSEY et ux.
69 SUMMER STREET
MEDWAY, MA

OWNERS:

LINDA LINDSEY
69 SUMMER STREET
MEDWAY, MA

DAVID & RENEE SISTRAND
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CONNORSTONE ENGINEERING INC.

CIVIL ENGINEERS AND LAND SURVEYORS
10 SOUTHWEST CUTOFF, SUITE 7
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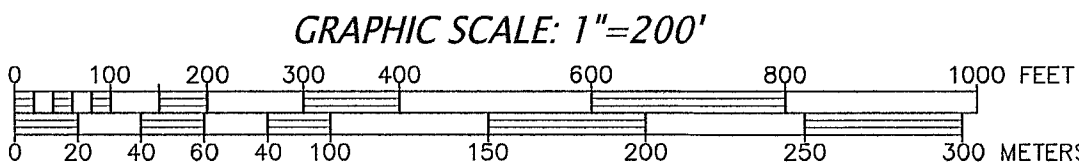
DEFINITIVE SUBDIVISION PLAN
COVER SHEET
BOUNDARY LANE
IN
MEDWAY, MASS.

I HEREBY CERTIFY THAT THIS PLAN
WAS PREPARED IN CONFORMANCE WITH
THE RULES AND REGULATIONS OF THE
REGISTERS OF DEEDS.

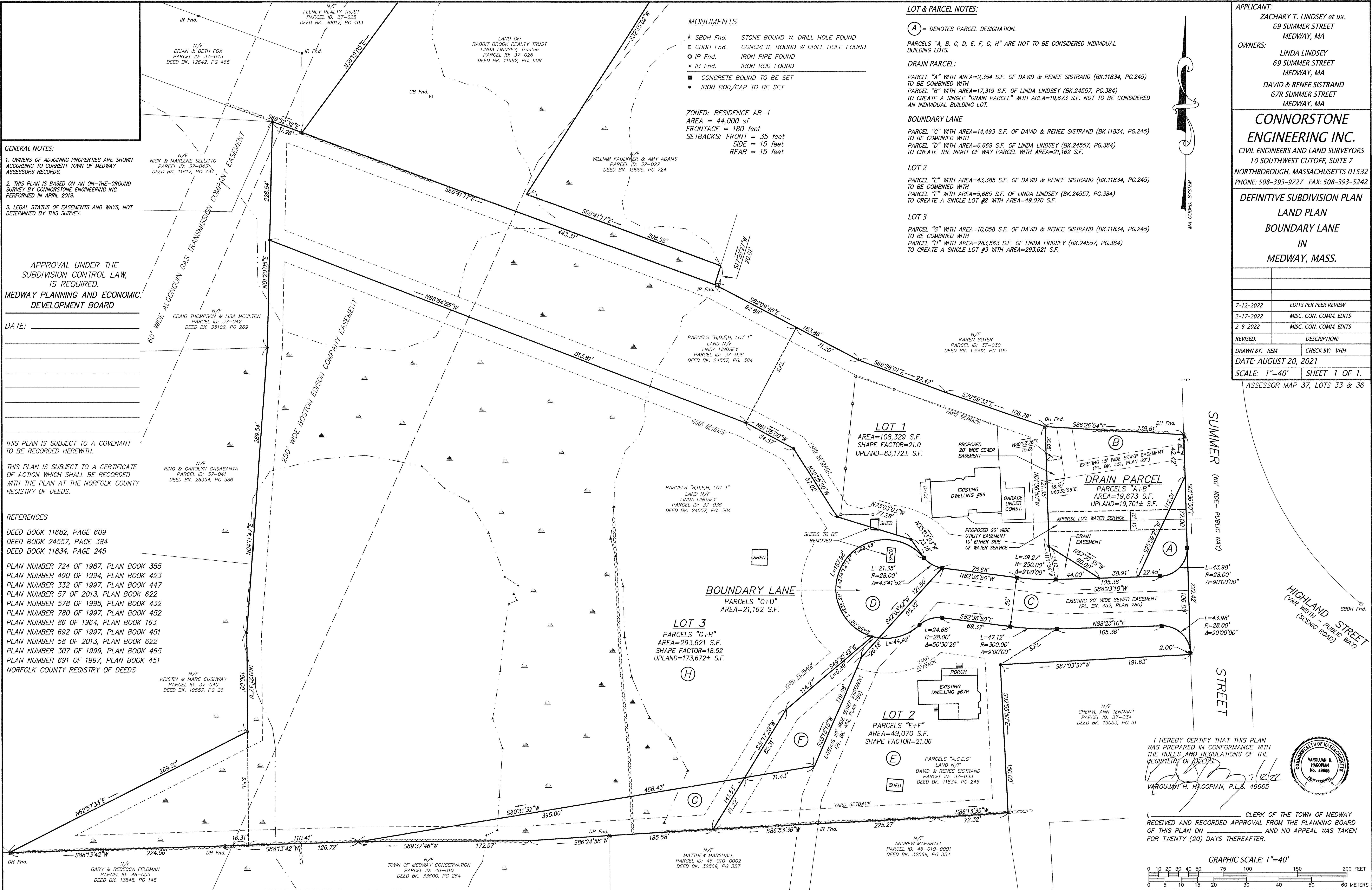
[Signature] 7/12/22
VAROLJAN H. HAGOPIAN, P.L.S. 49665



I, _____, CLERK OF THE TOWN OF MEDWAY
RECEIVED AND RECORDED APPROVAL FROM THE PLANNING BOARD
OF THIS PLAN ON _____ AND NO APPEAL WAS TAKEN
FOR TWENTY (20) DAYS THEREAFTER.



| REVISED: | DESCRIPTION: |
|-----------------------|------------------------|
| 7-12-2022 | EDITS PER PEER REVIEW |
| 2-17-2022 | MISC. CON. COMM. EDITS |
| 2-8-2022 | MISC. CON. COMM. EDITS |
| DRAWN BY: REM | CHECK BY: VC |
| DATE: AUGUST 20, 2021 | |
| SCALE: AS SHOWN | SHEET 1 OF 2 |



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REFERENCES

DEED BOOK 11682, PAGE 609
DEED BOOK 24557, PAGE 384
DEED BOOK 11834, PAGE 245
PLAN NUMBER 724 OF 1987, PLAN BOOK 355
PLAN NUMBER 490 OF 1994, PLAN BOOK 423
PLAN NUMBER 332 OF 1997, PLAN BOOK 447
PLAN NUMBER 57 OF 2013, PLAN BOOK 622
PLAN NUMBER 578 OF 1995, PLAN BOOK 432
PLAN NUMBER 780 OF 1997, PLAN BOOK 452
PLAN NUMBER 86 OF 1964, PLAN BOOK 163
PLAN NUMBER 692 OF 1997, PLAN BOOK 451
PLAN NUMBER 58 OF 2013, PLAN BOOK 622
PLAN NUMBER 307 OF 1999, PLAN BOOK 465
PLAN NUMBER 691 OF 1997, PLAN BOOK 451
NORFOLK COUNTY REGISTRY OF DEEDS

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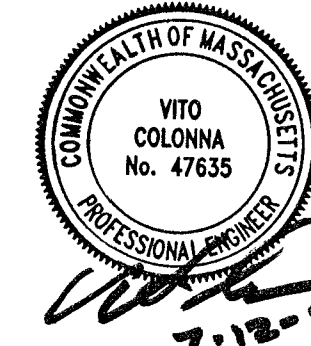
ZONED: RESIDENCE AR-1
AREA = 44,000 sf
FRONTAGE = 180 feet
SETBACKS: FRONT = 35 feet
 SIDE = 15 feet
 REAR = 15 feet

| STORM WATER TEST PIT | | |
|--------------------------------|----|-------------|
| TP-2 6/11/21 | | EL. = 255.7 |
| 0-10" | Ap | SANDY LOAM |
| 10-22" | Bw | LOAMY SAND |
| 22-60" | C1 | LOAMY SAND |
| MOTTLES AT 20" WATER AT 48" | | |

| STORM WATER TEST PIT | | |
|--------------------------------|-------------|-----------|
| TP-1 6/11/21 | EL. = 254.1 | |
| 0-18" | | FILL |
| | | |
| 18-60" | C1 | FINE SAND |
| MOTTLES AT 13" WATER AT 32" | | |

| | |
|--|--------------------|
| | DRAIN MAN HOLE |
| | DRAINAGE LINE |
| | CATCH BASIN |
| | SEWER LINE |
| | SEWER MAN HOLE |
| | BITUMINOUS CURBING |
| | EDGE OF PAVEMENT |
| | GUARD RAIL |
| | APPROX. WATERLINE |
| | HYDRANT |
| | WATERGATE |
| | APPROX. GAS LINE |
| | GAS GATE |

UTILITY POLE & GUY WIRE
CHAIN LINK FENCE
LIGHTPOST
HANDICAP SPACE
ELECTRIC TRANSFORMER
SIGN
VERTICAL BENCHMARK
DECIDUOUS TREE >8"
CONIFEROUS TREE >8"
TREELINE
SPOT GRADE
WETLAND LINE
TELEPHONE MAN HOLE



- ▣ SBDH Fnd. STONE BOUND W. DRILL HOLE FOUND
- ▣ SB Fnd. STONE BOUND FOUND
- IP Fnd. IRON PIPE FOUND

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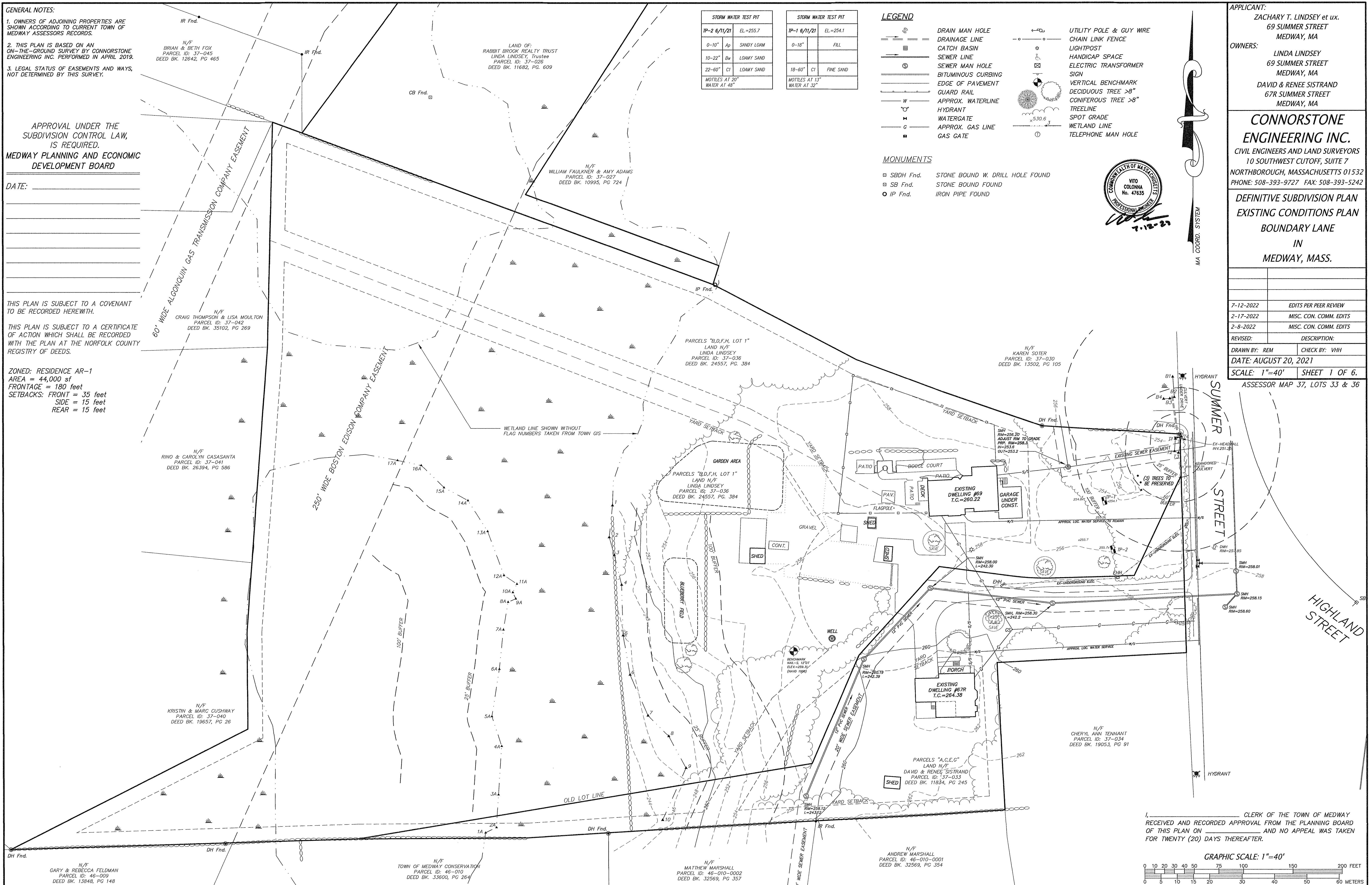
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EXISTING CONDITIONS PLAN
BOUNDARY LANE
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| DATE: AUGUST 20, 2021 | | |
| SCALE: 1"=40' | | SHEET 1 OF 6. |

ASSESSOR MAP 37, LOTS 33 & 36



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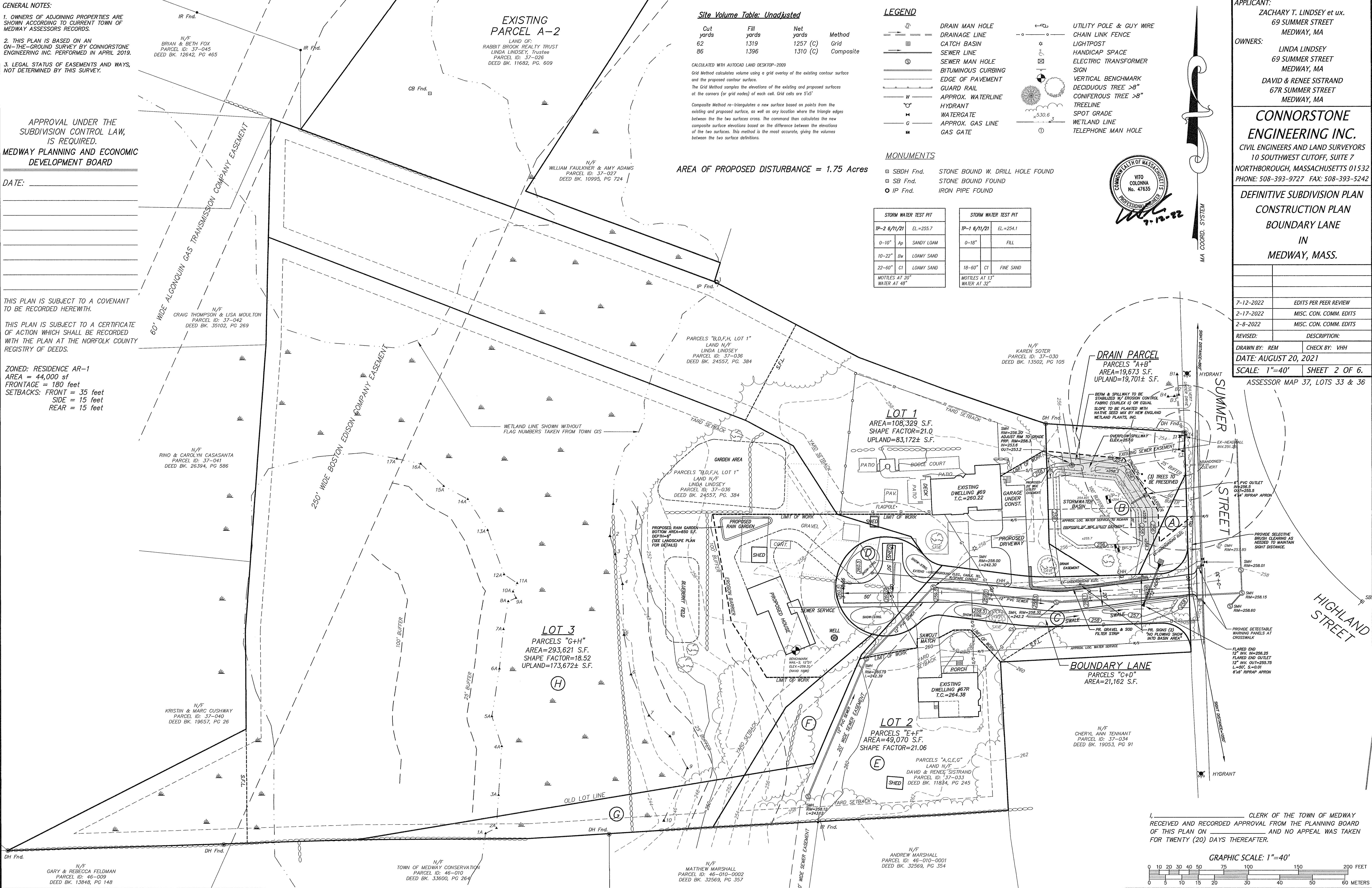
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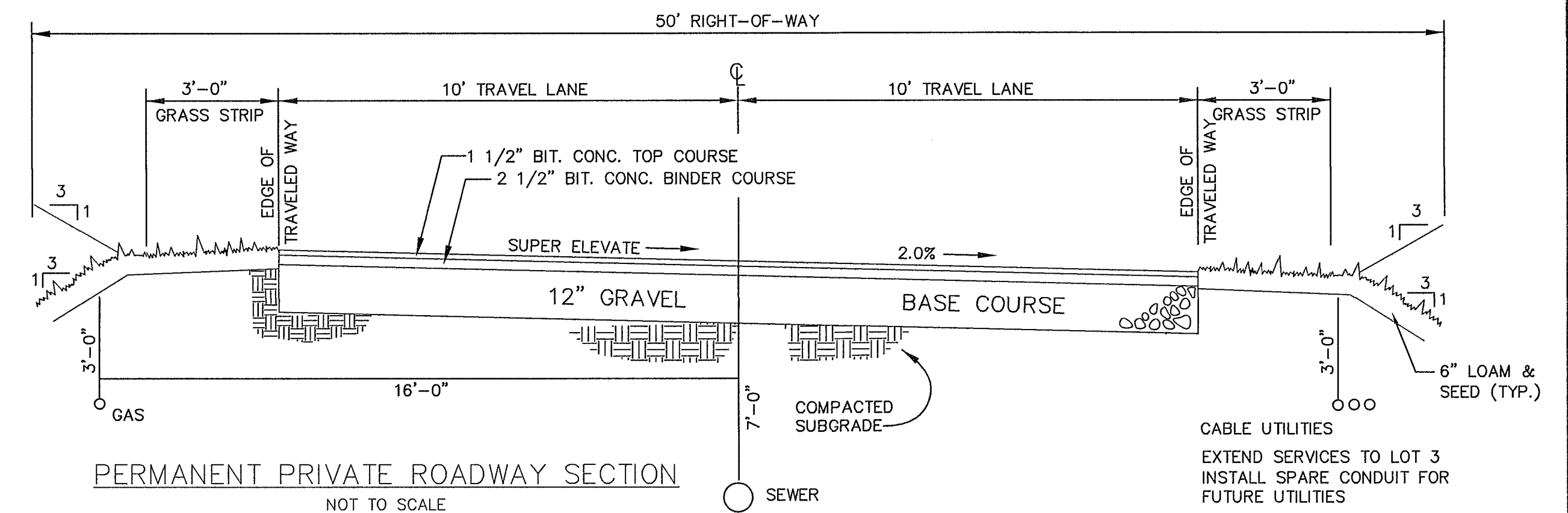
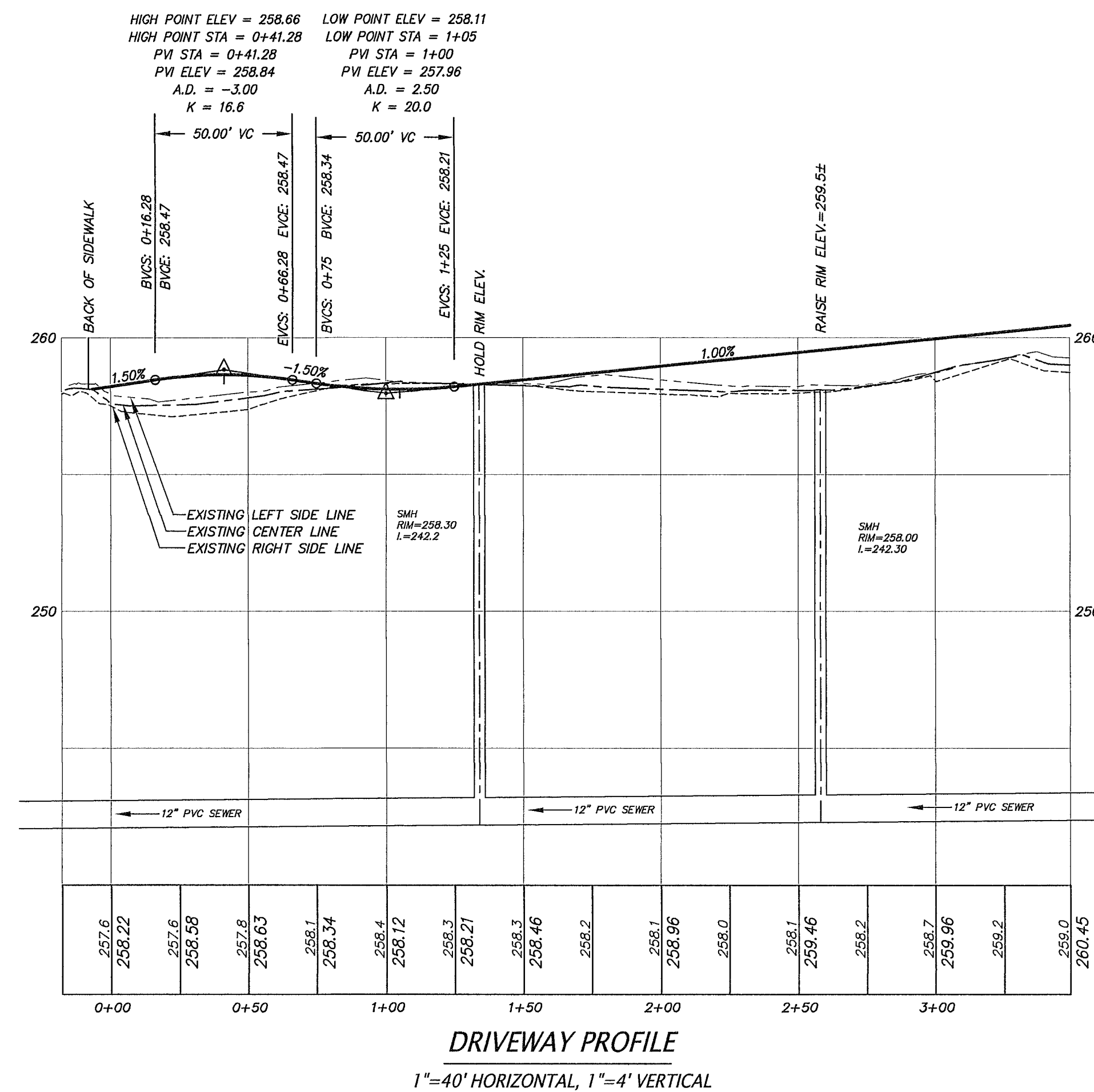
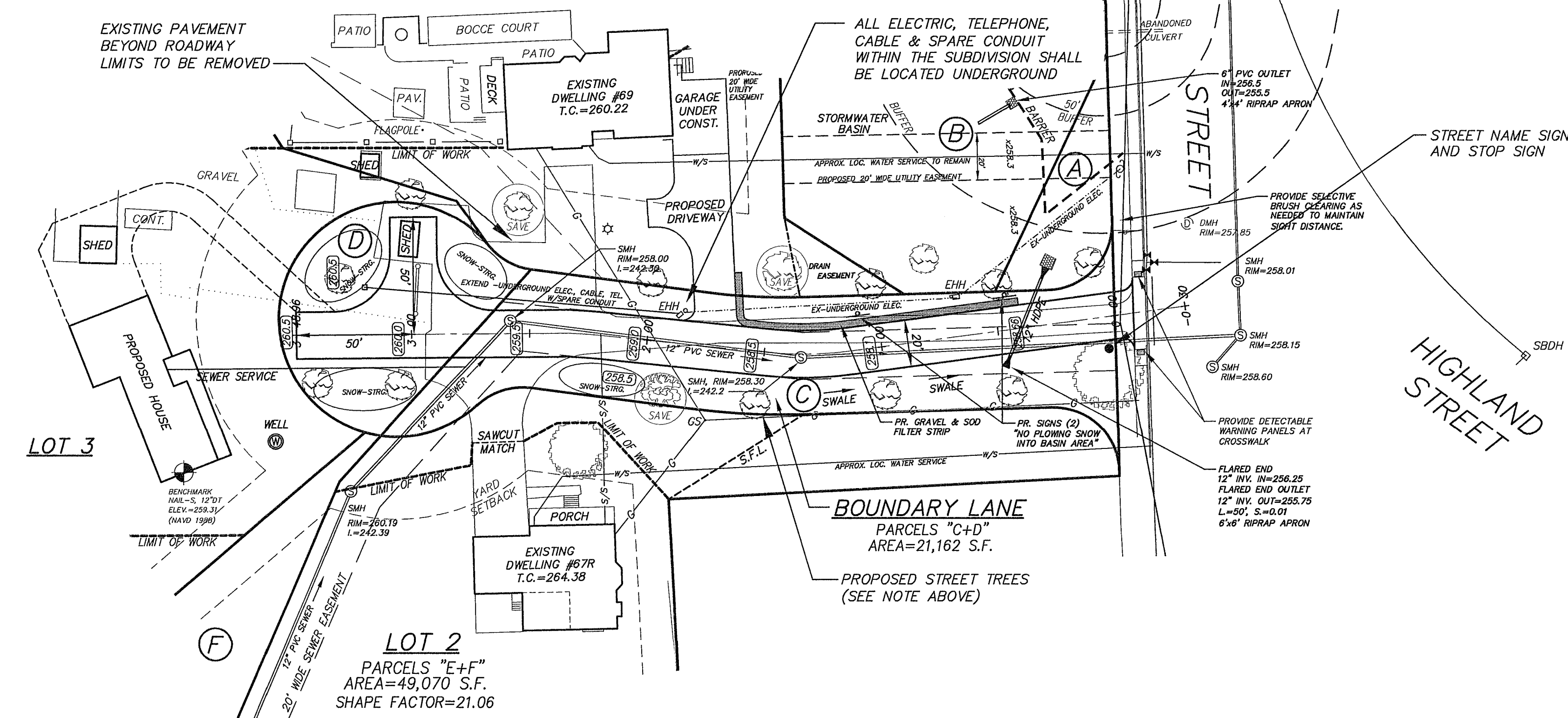
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ZONED: RESIDENCE AR-1
AREA = 44,000 sf
FRONTAGE = 180 feet
SETBACKS: FRONT = 35 feet
SIDE = 15 feet
REAR = 15 feet



MINIMUM OF 3 SPECIES TO BE PLANTED.
STAGGER LAYOUT SO THAT NO ONE SPECIES
SHALL BE PLANTED NEXT TO A LIKE SPECIES

ROADWAY PLAN VIEW
1"=40' HORIZONTAL



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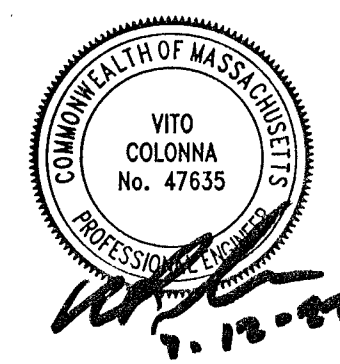
**CONNORSTONE
ENGINEERING INC.**

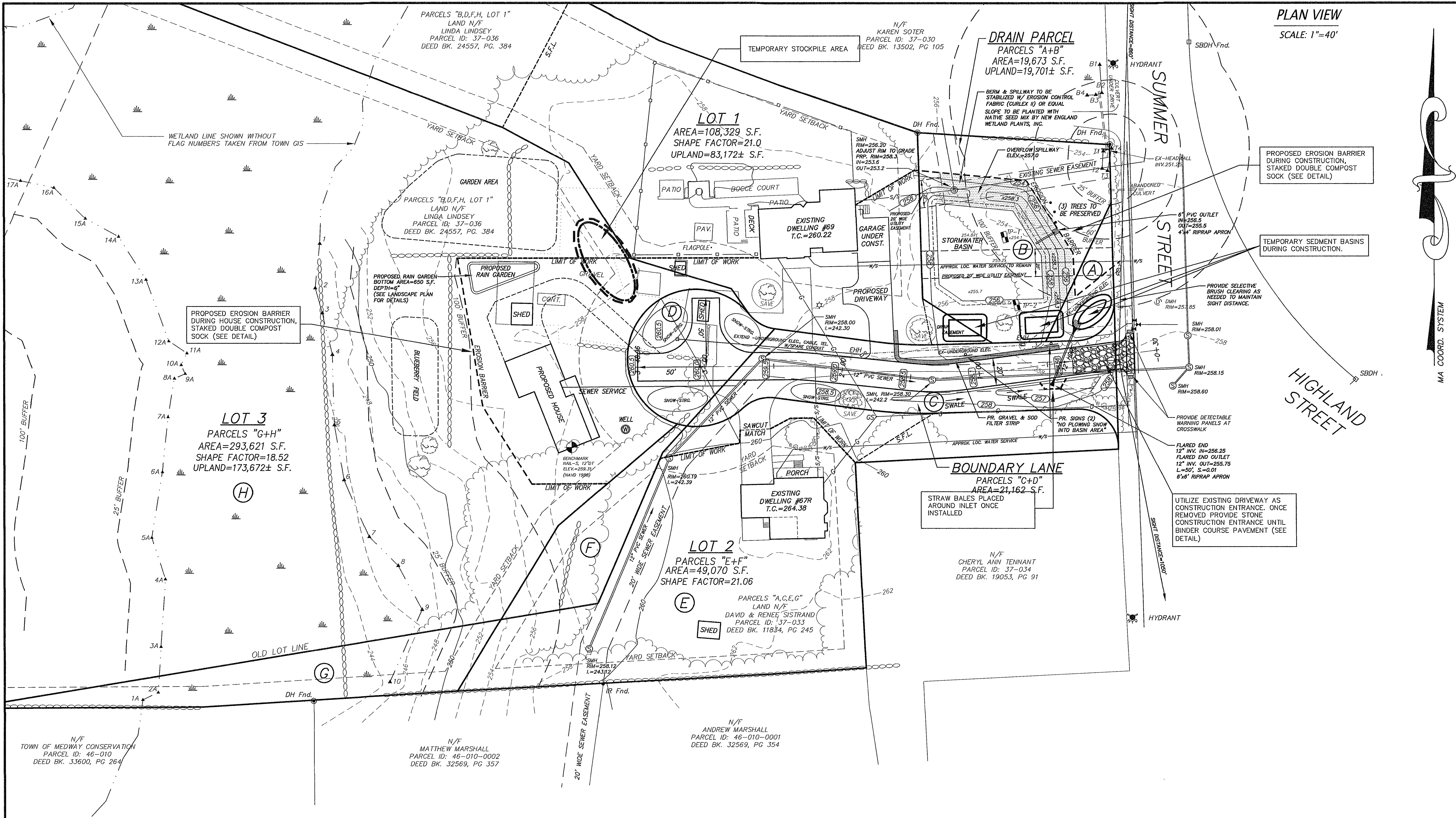
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DEFINITIVE SUBDIVISION PLAN
ROADWAY PLAN & PROFILE
BOUNDARY LANE
IN
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| SCALE: 1"=40' | | SHEET 3 OF 6. |

I, _____, CLERK OF THE TOWN OF MEDWAY
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FOR TWENTY (20) DAYS THEREAFTER.





EROSION AND SEDIMENTATION CONTROL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE ORDER OF CONDITIONS ISSUED BY THE TOWN OF MEDWAY CONSERVATION COMMISSION, AND THE PROJECT STORMWATER POLLUTION PREVENTION PLAN.
- PRIOR TO INITIATING CONSTRUCTION, ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND DETAIL DRAWINGS.
- THIS PLAN DEPICTS THE MINIMUM REQUIRED SEDIMENTATION AND EROSION CONTROLS. THE CONTRACTOR SHALL EMPLOY ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES AS NECESSITATED BY SITE CONDITIONS, OR AS DIRECTED BY THE OWNER, THE OWNER'S REPRESENTATIVE, OR THE CONSERVATION COMMISSION TO ENSURE PROTECTION OF ALL WETLAND RESOURCES AND CONTROL SEDIMENT TRANSPORT. IF SEDIMENTATION PLUMES OCCUR, THE CONTRACTOR SHALL STOP WORK AND INSTALL ADDITIONAL SEDIMENTATION CONTROL DEVICES IMMEDIATELY TO PREVENT FURTHER SEDIMENTATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY AND PERMANENT SEDIMENTATION AND EROSION CONTROLS UNTIL WORK IS COMPLETE AND ALL AREAS HAVE BEEN PERMANENTLY STABILIZED. AT SUCH TIME THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SEDIMENTATION AND EROSION CONTROL MEASURES.
- THE CONTRACTOR SHALL INSPECT SEDIMENTATION AND EROSION CONTROLS ON A DAILY BASIS AND IMMEDIATELY AFTER EACH RAINFALL; REPAIRS SHALL BE MADE BY THE END OF THE WORKING DAY. ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR WHEN THE VOLUME REACHES 1/4 TO 1/2 THE HEIGHT OF COMPOST SOCK OR SEDIMENT TRAP, OR AS DIRECTED BY THE LOCAL AUTHORITY.
- SOIL STOCKPILES SHALL BE STABILIZED TO PREVENT EROSION, AND A PERIMETER SEDIMENT CONTROL BARRIER SHALL BE INSTALLED. NO MATERIALS SUBJECT TO EROSION SHALL BE STOCKPILED OVERNIGHT WITHIN 100 FEET OF A WETLAND NOT COVERED.
- TOPSOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 7 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH NO LATER THAN 7 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED SHALL BE EROSION CONTROL MIX. DISTURBED PORTIONS OF THE SITE WHERE FINAL GRADE HAS BEEN MET AND CONSTRUCTION ACTIVITY CEASES SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. THE PERMANENT SEED MIX CONSISTS OF BLUEGRASS, TALL FESCUE, AND ANNUAL RYE. PRIOR TO SEEDING, GROUND AGRICULTURAL LIMESTONE SHALL BE APPLIED AS REQUIRED. SEEDING SHALL BE NUTRIENT ENRICHED HYDROSEED AND CELLULOSE OR OTHER DEGRADABLE FIBERS CAPABLE OF RETAINING MOISTURE. IF NOT DURING THE GROWING SEASON, THESE AREAS SHALL BE MULCHED WITH STRAW AND SECURED.
- DEWATERING OPERATIONS, IF REQUIRED, SHALL DISCHARGE ONTO STABILIZED AREAS, AND ALL DISCHARGE WATER IS TO PASS THROUGH SEDIMENTATION CONTROL DEVICES TO PREVENT IMPACTS UPON WATER BODIES, BORDERING VEGETATED WETLANDS, DRAINAGE SYSTEMS AND ADJUTING PROPERTIES. AT A MINIMUM ALL DISCHARGES SHALL BE INTERCEPTED BY STRAWBALE CORRAL AND STRAWBALE CHECK DAMS SPACED 10' APART.
- COMPOST SOCK AND SILT FENCE SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED DEVELOPMENT OR AS INDICATED ON THE PLANS. ADDITIONAL BARRIERS SHALL BE LOCATED AS CONDITIONS WARRANT, AND IN SOME AREAS WEED FREE BALE/SILT FENCING STRUCTURES MAY HAVE TO BE DUPLICATED AT REGULAR INTERVALS UP GRADIENT OF WETLANDS.
- STREET SWEEPING IN THE VICINITY OF THE PROJECT AREA SHALL BE PERFORMED AS NEEDED UNTIL THE PROJECT LIMITS HAVE BEEN STABILIZED. ALL SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY.
- ALL EXISTING AND PROPOSED DRAINAGE SYSTEM INLETS, WHICH MAY RECEIVE STORMWATER FLOW FROM DISTURBED AREAS, SHALL BE PROVIDED WITH INLET PROTECTION (CATCH BASIN SILT SACKS). THE CONTRACTOR SHALL MAINTAIN THESE DEVICES PER THE MANUFACTURERS RECOMMENDATIONS UNTIL ALL WORK IS COMPLETED AND ALL AREAS HAVE BEEN ADEQUATELY STABILIZED.
- DUST CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED PROPERLY THROUGHOUT DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. METHODS FOR DUST CONTROL SHALL INCLUDE WATER SPRINKLING AND/OR OTHER METHODS APPROVED BY THE ENGINEER.
- ALL VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF 2" TO 3" INCH CRUSHED STONE TO A DEPTH OF 6" FOR A MINIMUM OF THE FIRST 50 FEET FROM EXISTING PAVED STREETS. EXTEND THE PAD BEYOND 50 FEET AS NECESSARY BASED UPON FIELD CONDITIONS. IF THE SITE CONDITIONS ARE SUCH THAT THE GRAVEL PAD DOES NOT REMOVE THE MAJORITY OF THE MUD AND DEBRIS, THEN THE TIRES SHALL BE WASHED BEFORE ANY VEHICLES ENTER ADJACENT ROADWAYS. ALL WATER USED FOR TIRE WASHING SHALL BE COLLECTED AND TREATED PRIOR TO ENTERING THE DRAINAGE SYSTEM. THE CONTRACTOR SHALL INSPECT THE CONSTRUCTION ENTRANCE DAILY AND AFTER HEAVY USE.
- EQUIPMENT NOT IN USE SHALL NOT BE PARKED WITHIN WETLANDS OR BUFFER AREAS.

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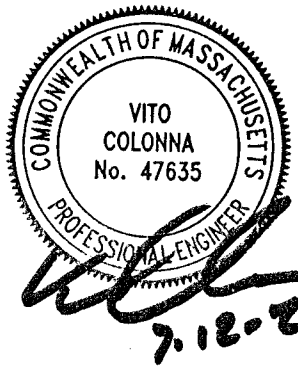
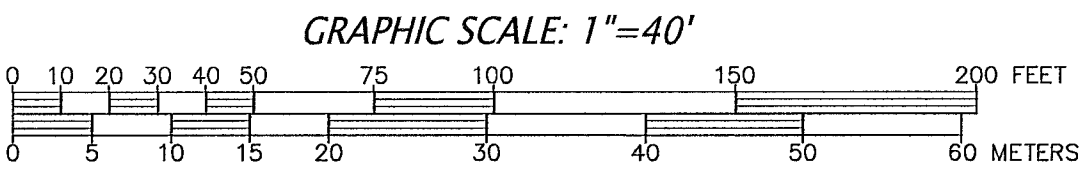
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GENERAL SEQUENCING PLAN
ESTIMATED SCHEDULE:
ROADWAY THROUGH BINDER COURSE: 6 MONTHS
LOT DEVELOPMENT 12 MONTHS

- INSTALL SEDIMENT CONTROL BARRIERS AND CONSTRUCTION ENTRANCE OFF SUMMER STREET.
- REMOVE THE EXISTING STRUCTURES AND PAVEMENT AREAS.
- INSTALL TEMPORARY SEDIMENT TRAP/BERM.
- CLEAR & PREP ROADWAY AREA.
- BEGIN CONSTRUCTION OF ROADWAY.
- INSTALL ROADWAY CROSS CULVERT PRIOR TO COMPLETING PLACEMENT OF FILL NEAR STATION 0+25 TO PREVENT PONDING ON ADJUTING LAND AND BLOCKAGE OF DRAINAGE FLOW PATHS.
- INSTALL UTILITIES.
- INSTALL DRAIN CULVERT.
- INSTALL GRAVEL BASE AND BINDER COURSE PAVEMENT.
- BEGIN LOT DEVELOPMENT.
- PERFORM FINAL LANDSCAPING AND STABILIZATION.
- CLEAN & FINAL INSTALLATION OF STORM WATER BASIN.
- ADJUST STRUCTURES TO GRADE, AND PLACE FINAL TOP COURSE PAVEMENT.
- REMOVE THE REMAINING SILTATION DEVICES AS THE AREA BECOMES STABLE.

THE ABOVE SEQUENCING MAY BE SUBJECT TO CHANGE DUE TO FIELD CONDITIONS AND CONTRACTOR'S MEANS AND METHODS. A FINAL SEQUENCING PLANE SHALL BE SUBMITTED TO THE ENGINEER AND TOWN FOR REVIEW AND APPROVAL PRIOR TO THE START OF CONSTRUCTION.

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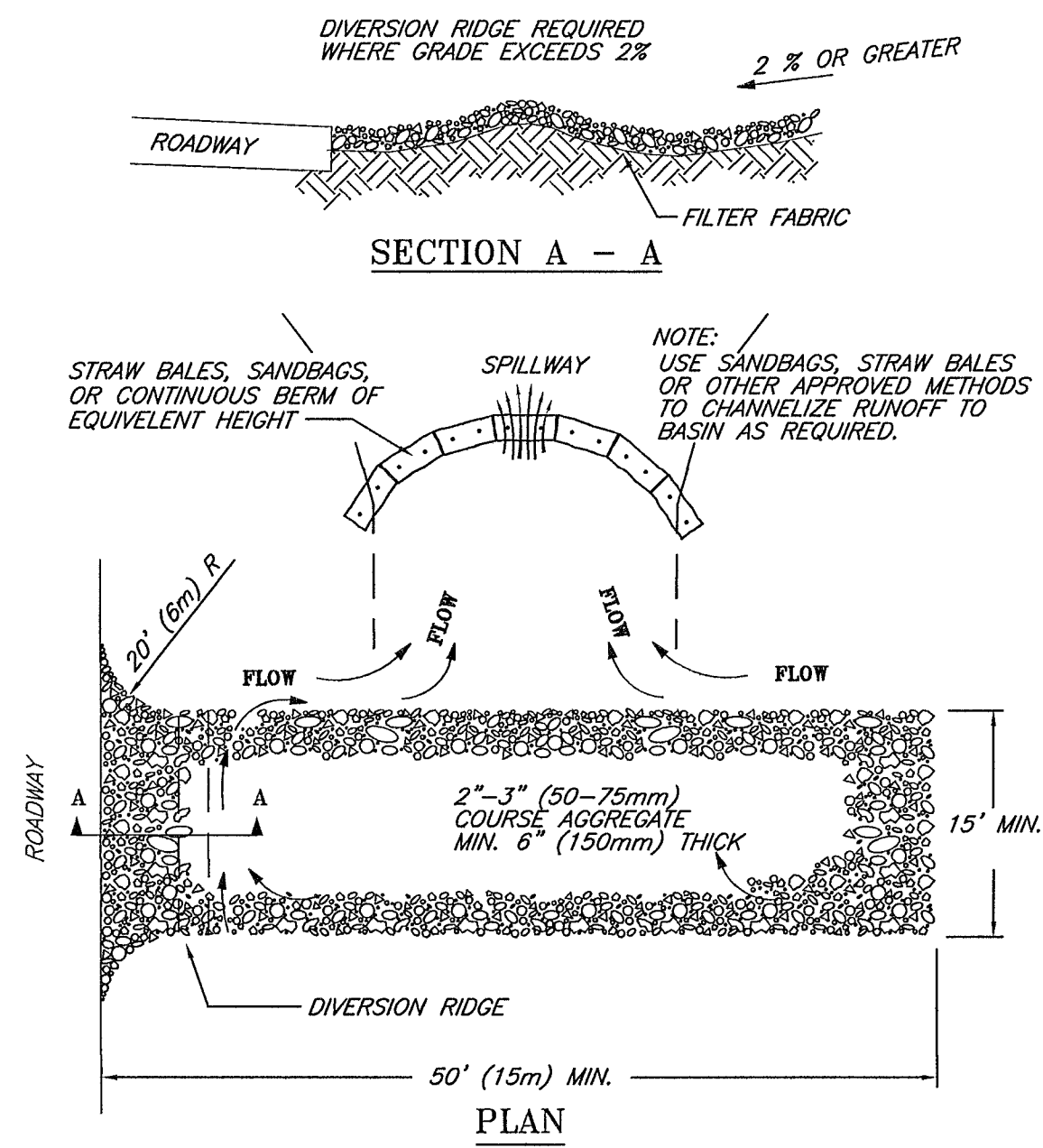


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EROSION & SEDIMENT
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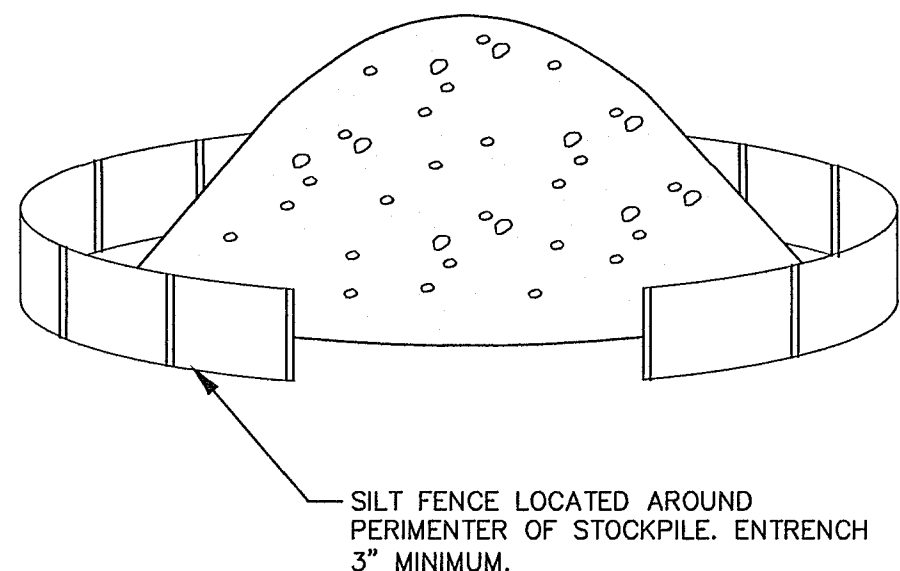
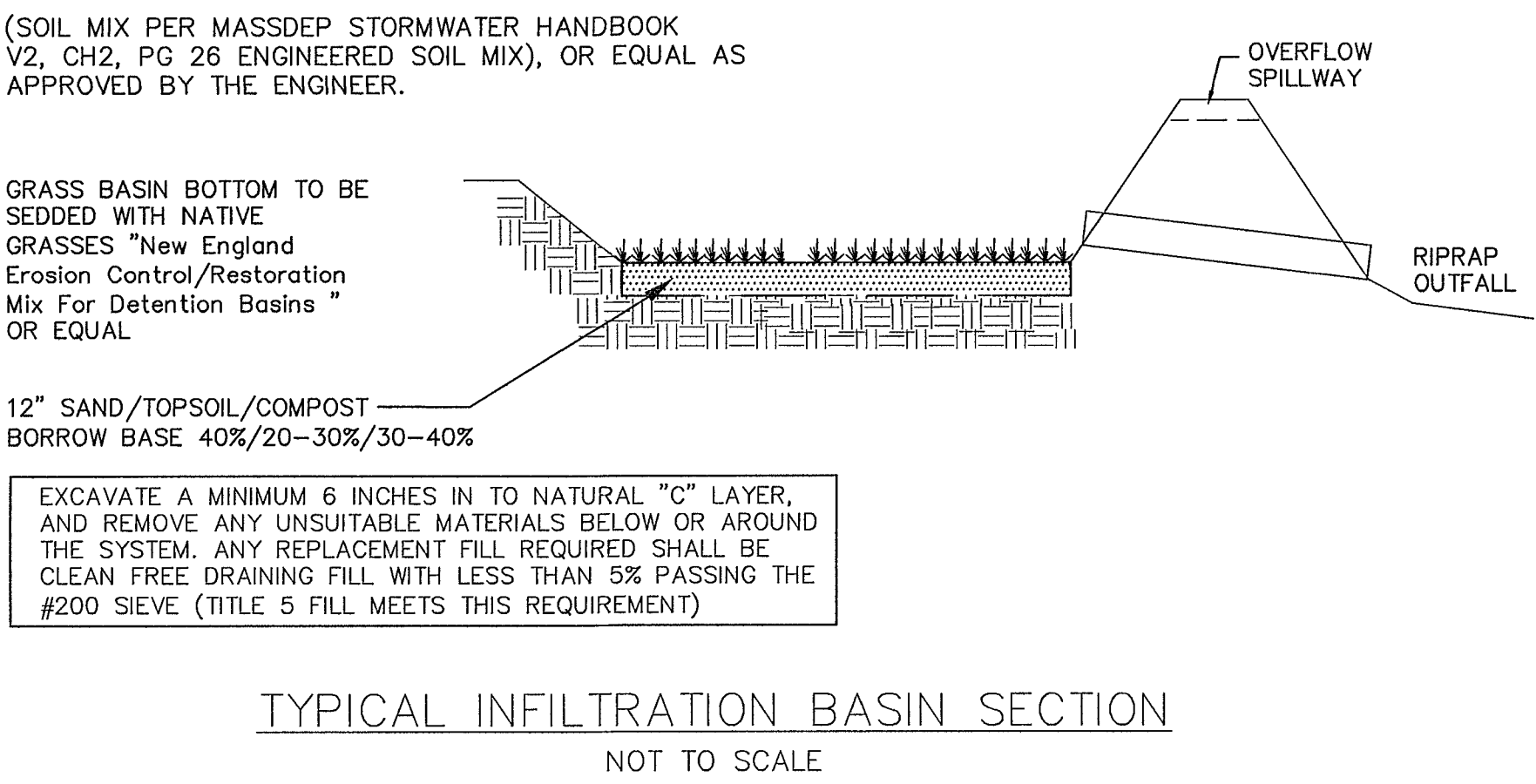
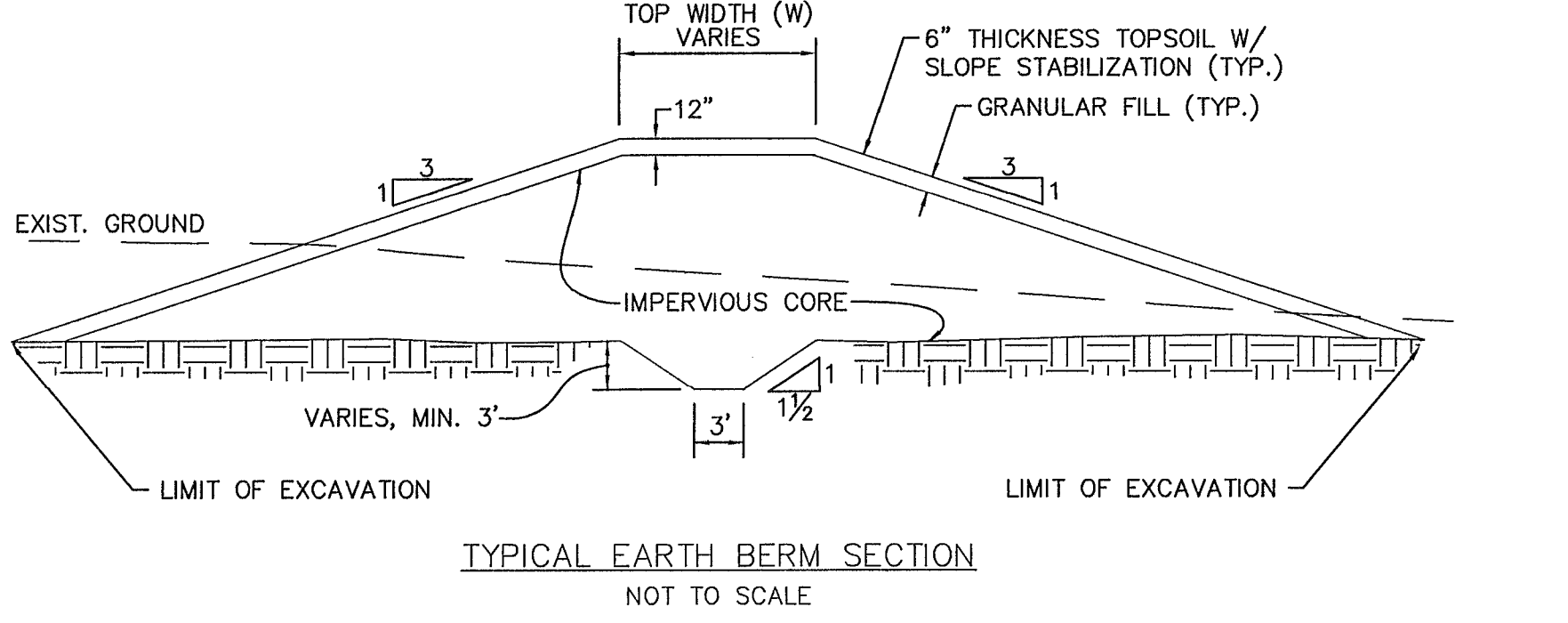
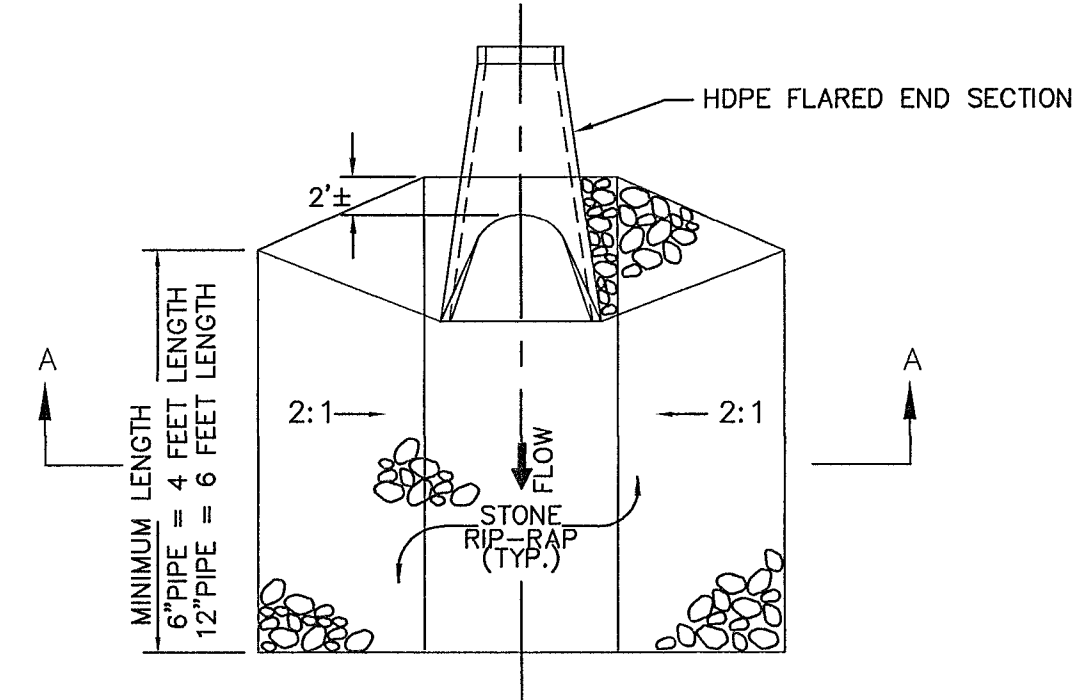
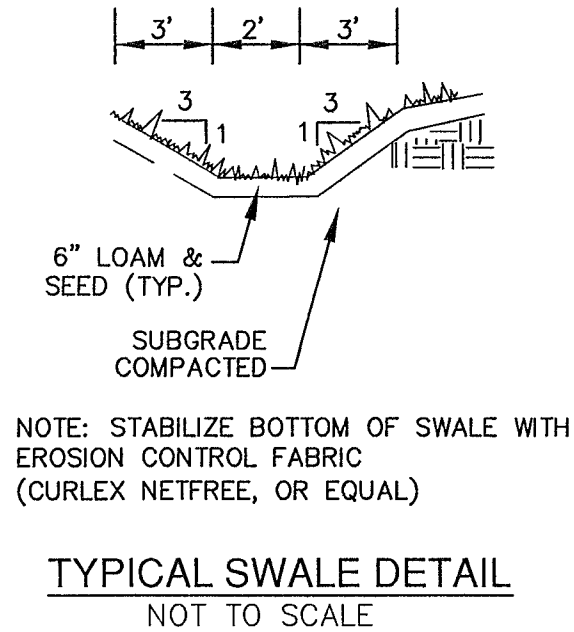
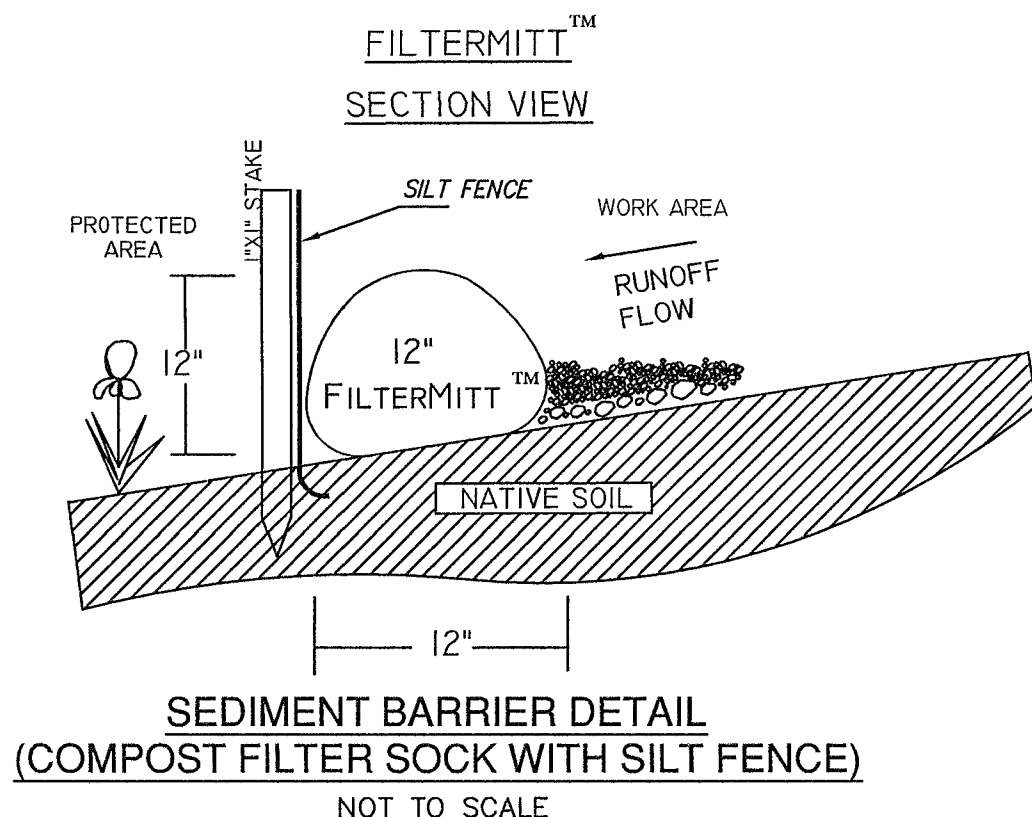
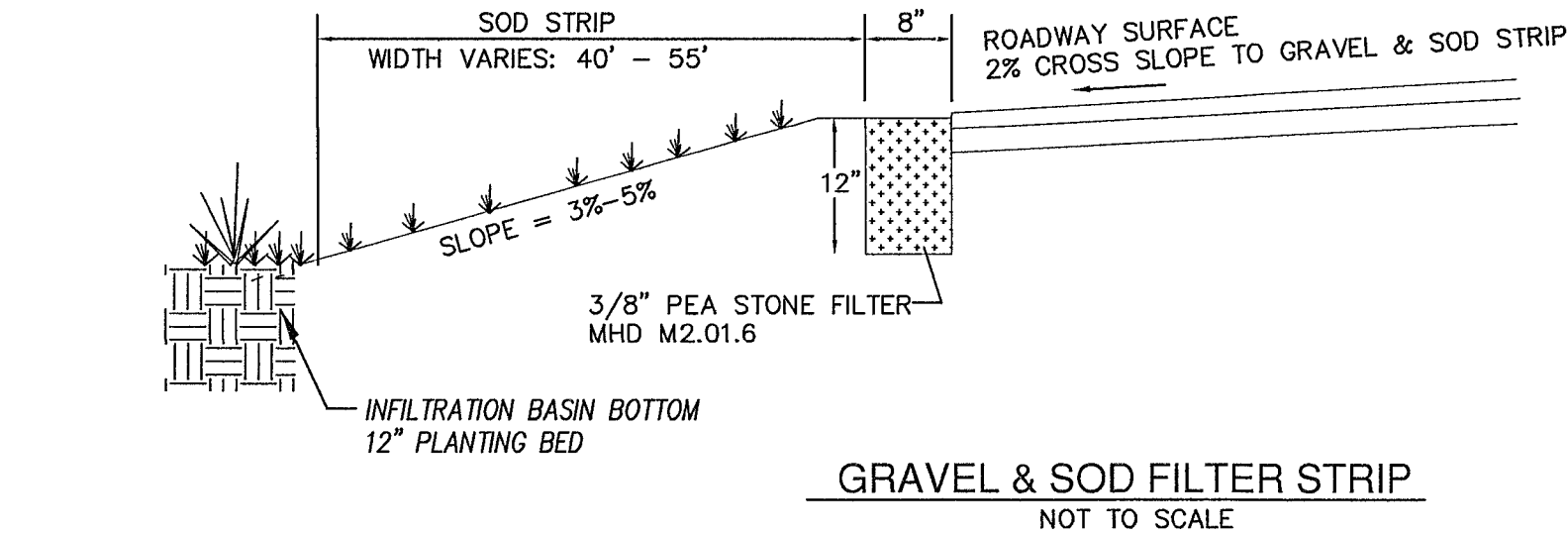
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

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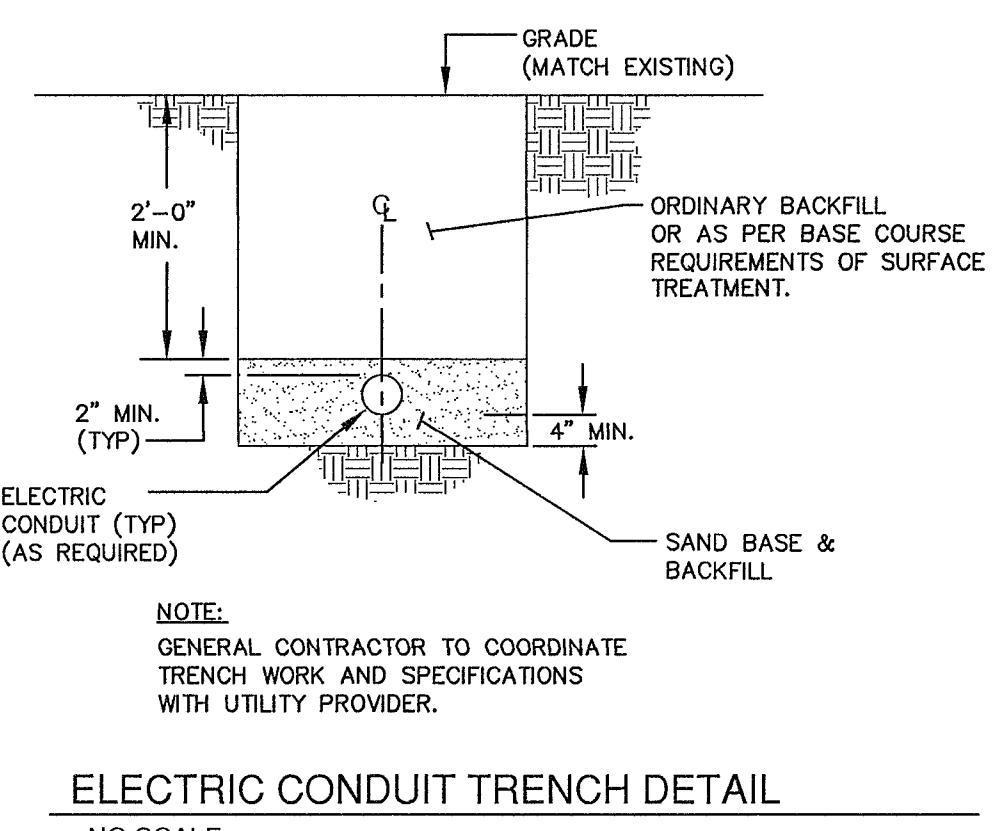
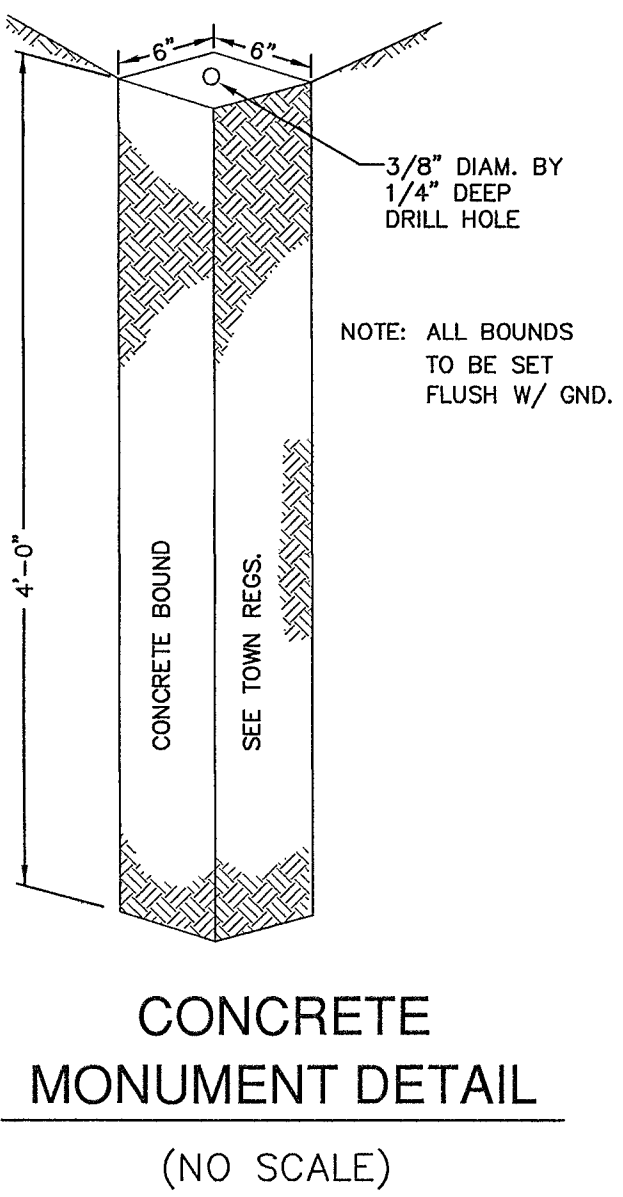
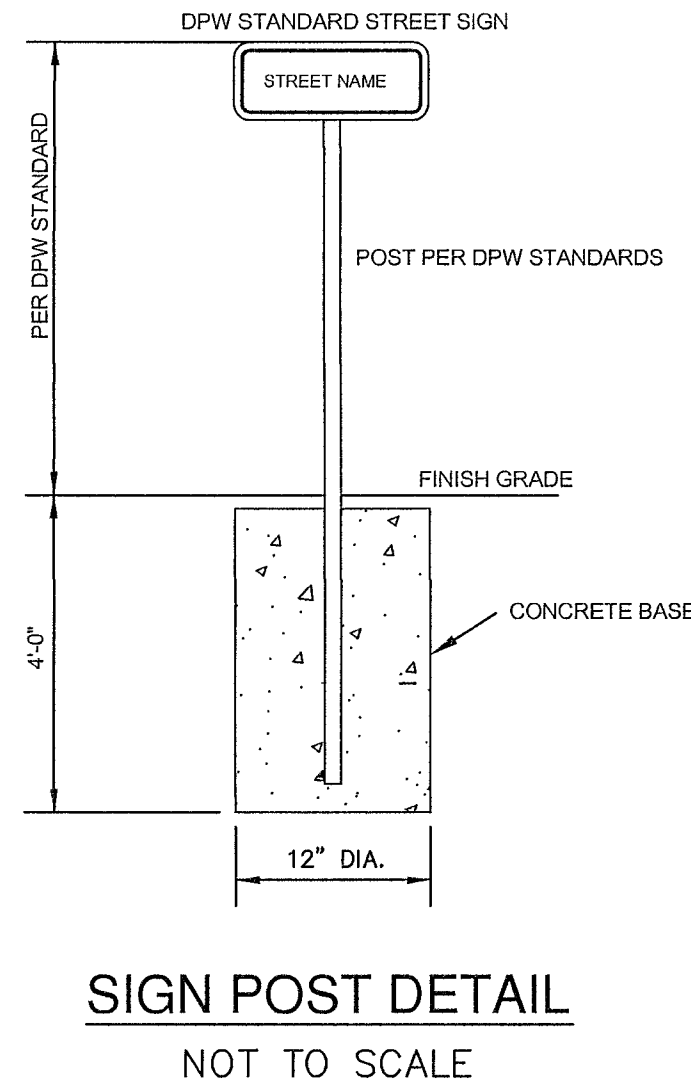
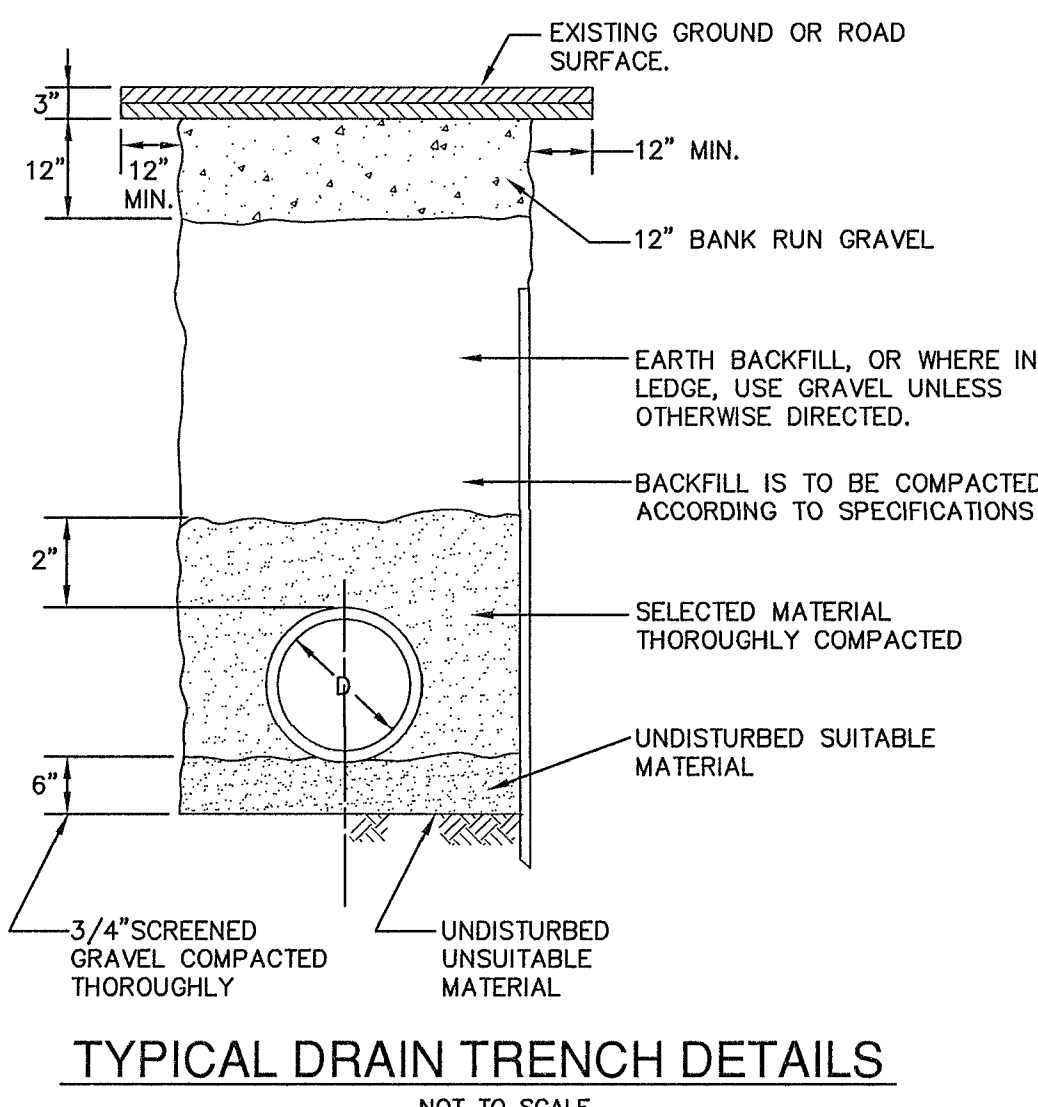
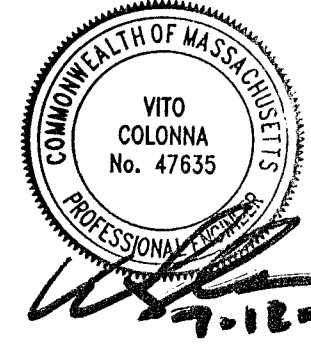
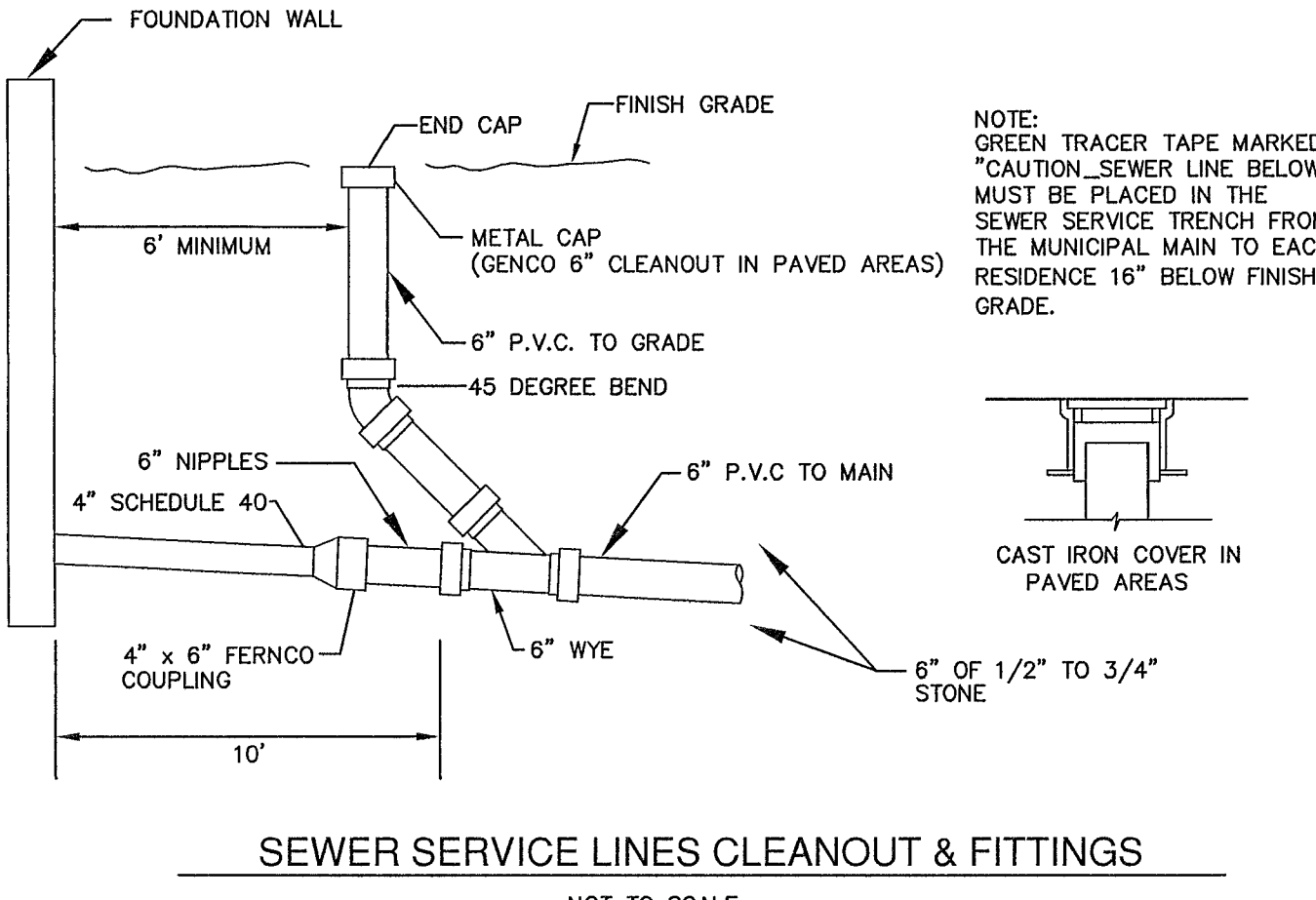
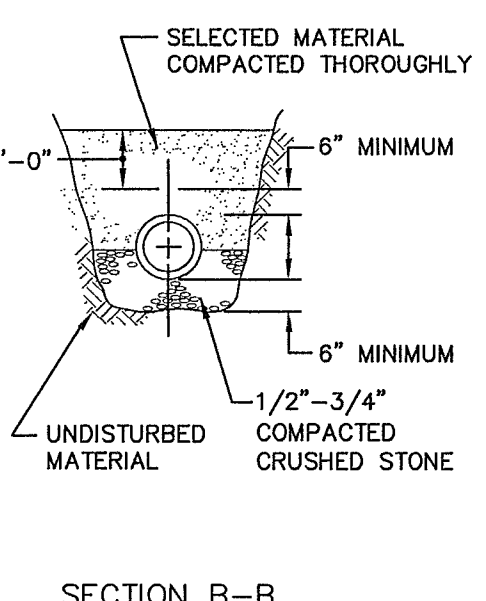
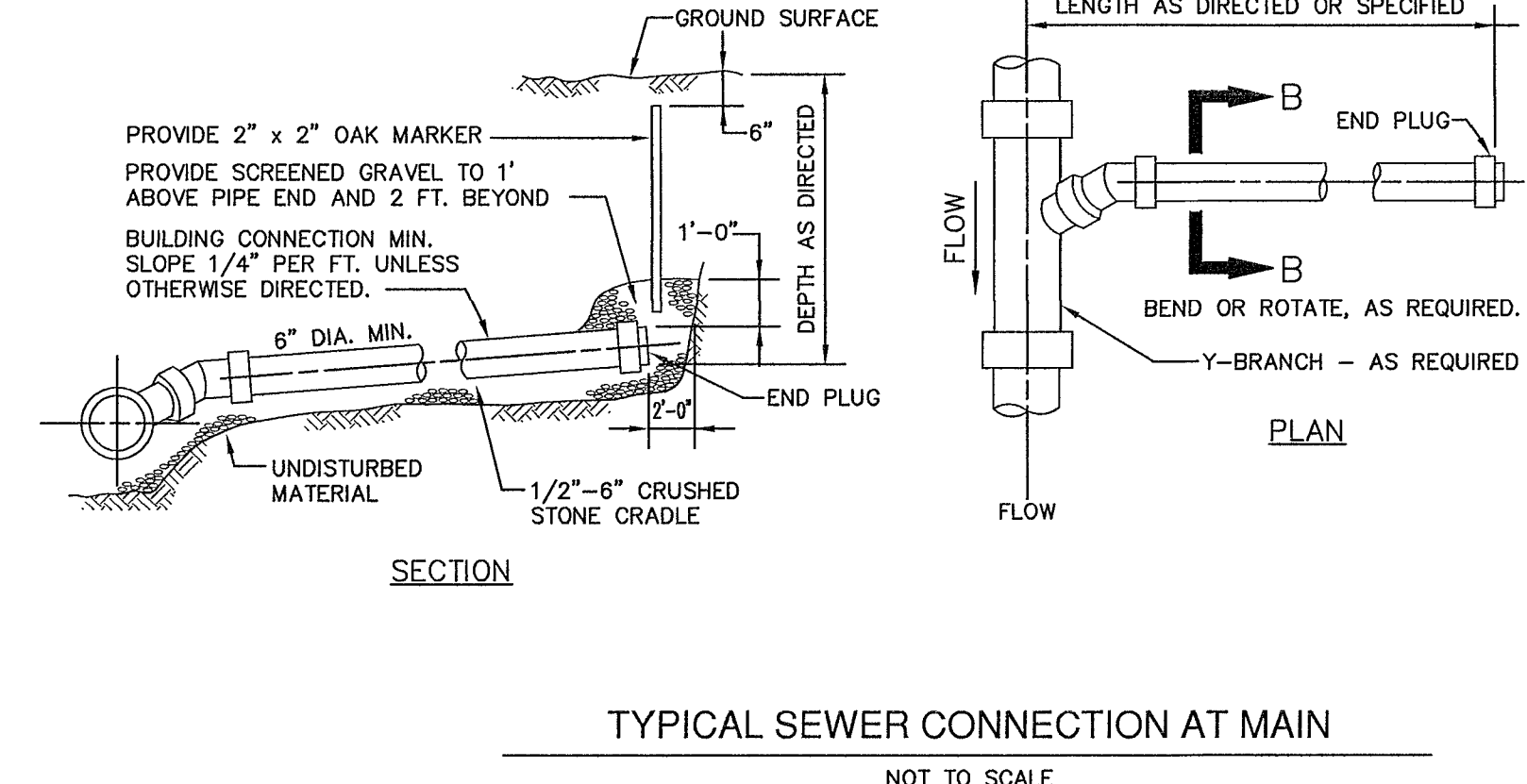


NOTES:

1. NO MATERIALS SUBJECT TO EROSION SHALL BE STOCKPILED OVERNIGHT WITHIN 100 FEET OF A WETLAND UNLESS COVERED.

2. STOCKPILES SHALL BE LOCATED ON DRY STABLE AREAS.

3. STOCKPILES TO REMAIN FOR GREATER THAN SEVEN DAYS SHALL BE STABILIZED WITH A TEMPORARY SEED MIXTURE.



APPROVAL UNDER THE SUBDIVISION CONTROL LAW, IS REQUIRED.

MEDWAY PLANNING AND ECONOMIC DEVELOPMENT BOARD

DATE: _____

THIS PLAN IS SUBJECT TO A COVENANT TO BE RECORDED HEREWITH.

THIS PLAN IS SUBJECT TO A CERTIFICATE OF ACTION WHICH SHALL BE RECORDED WITH THE PLAN AT THE NORFOLK COUNTY REGISTRY OF DEEDS.

I, _____, CLERK OF THE TOWN OF MEDWAY RECEIVED AND RECORDED APPROVAL FROM THE PLANNING BOARD OF THIS PLAN ON _____ AND NO APPEAL WAS TAKEN FOR TWENTY (20) DAYS THEREAFTER.

OWNERS:

LINDA LINDSEY
69 SUMMER STREET
MEDWAY, MA

RABBIT BROOK REALTY TRUST
69 SUMMER STREET
MEDWAY, MA

DAVID & RENEE SISTRAND
67R SUMMER STREET
MEDWAY, MA

CONNORSTONE ENGINEERING INC.
CIVIL ENGINEERS AND LAND SURVEYORS
10 SOUTHWEST CUTOFF, SUITE 7
NORTHBOROUGH, MASSACHUSETTS 01532
PHONE: 508-393-9727 FAX: 508-393-5242

DEFINITIVE PLAN
CONSTRUCTION DETAILS
OF
BOUNDARY LANE
IN
MEDWAY, MA

| DATE | DESCRIPTION |
|-----------------------|------------------------|
| 7/12/2022 | EDITS PER PEER REVIEW |
| 2/17/2022 | MISC. CON. COMM. EDITS |
| 2/8/2022 | MISC. CON. COMM. EDITS |
| REVISED: | DESCRIPTION: |
| DRAWN BY: RM | CHECK BY: VC |
| DATE: AUGUST 20, 2021 | |
| SCALE: NONE | SHEET 5 OF 6. |

STORMWATER POLLUTION PREVENTION PLAN

FOR
BOUNDARY LANE
SUMMER ST. MEDWAY, MA

THIS STORMWATER POLLUTION PREVENTION PAN HAS BEEN PREPARED IN ACCORDANCE WITH THE MA DEPARTMENT OF ENVIRONMENTAL PROTECTION STORMWATER STANDARDS AND NPDES GENERAL CONSTRUCTION PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES. ALL WORK SHALL BE IN ACCORDANCE WITH THE ORDER OF CONDITIONS ISSUED BY THE LOCAL CONSERVATION COMMISSION.

1.1 PROJECT INFORMATION

PROJECT NAME AND LOCATION: BOUNDARY LANE SUBDIVSION 69 SUMMER STREET, MEDWAY, MA

ACCOMPANYING DOCUMENTS: PLANS TITLED "DEFINITIVE SUBDIVISION PLAN, BOUNDARY LANE SUBDIVISION, MEDWAY, MA" PREPARED BY CONNORSTONE ENGINEERING, ARE TO BE CONSIDERED A PART OF THIS DOCUMENT.

NPDES TRACKING NUMBER: MA8

LATITUDE/LONGITUDE: LAT: 42.15050 / LONG: 71.44400

PROJECT DESCRIPTION: THREE (3) LOT RESIDENTIAL SUBDIVISION

ESTIMATED DATES: START:FALL 2021 / COMPLETION: SPRING 2023

NAME OF RECEIVING WATERS: CHICKEN BROOK & HOPPING BROOK

ESTIMATED AREA OF DISTURBANCE: 1.5 ACRES

1.2 EXISTING CONDITIONS

THE EXISTING SITE CONSISTS OF A 11.3 ACRE PARCEL AT 69-67R SUMMER STREET AND IS SHOWN ON ASSESSOR'S MAP 37 AS PARCELS 36 AND 33. THE LOT IS CURRENTLY DEVELOPED WITH TWO SINGLE FAMILY HOUSES LOCATED OFF A COMMON DRIVEWAY FROM SUMMER STREET. THE CURRENT ZONING MAP SHOWS THE SITE WITHIN THE ARI-1 DISTRICT, WHICH REQUIRES A MINIMUM LOT AREA OF 44,000 SQUARE FEET AND 180 FEET OF FRONTAGE. GENERALLY THE EASTERN HALF OF THE SITE IS FULLY DEVELOPED WITH THE TWO RESIDENTIAL HOUSES AND AGRICULTURAL USES. THE CURRENT CONDITIONS INCLUDE 27,840 SQUARE FEET OF IMPERVIOUS AREAS (PAVEMENT, ROOF AREAS, AND/OR COMPACTED GRAVEL SURFACES). THE WESTERN HALF OF THE SITE CONSISTS OF WOODED AREAS, WETLANDS, AND A POWER COMPANY EASEMENT (OVERHEAD WIRES).

THE NATURAL RESOURCE CONSERVATION SERVICE HAS MAPPED THE SOILS WITHIN THE DEVELOPMENT AREA AS "WOODBIDGE FINE SANDY LOAM," WHICH ARE TYPICALLY MODERATELY WELL DRAINING SOILS WITH GROUNDWATER AT 18 TO 30 INCHES BELOW GRADE. TEST PITS WERE PERFORMED BY CONNORSTONE ENGINEERING, INC. TO DETERMINE CONFIRM THE SOIL CLASSIFICATION AND DEPTH TO GROUNDWATER FOR DESIGN OF THE STORMWATER MANAGEMENT BASIN. THE TEST PITS WITHIN THE BASIN SHOWED LOAMY SAND TO FINE SAND MATERIAL WITH A SHALLOW GROUNDWATER ELEVATION. THERE ARE ALSO MINOR AREAS ON-SITE MAPPED AS "RIDGEBURY FINE SANDY LOAM." THESE SOILS ARE ASSOCIATED WITH WETLAND AREAS, AND CORRELATE TO THE DELINEATED WETLANDS ON-SITE.

RUNOFF FROM THE PROJECT AREA FLOWS IN TWO FLOW PATTERNS, EITHER TO THE REAR WETLAND OR TO THE FRONT CORNER WETLAND. THE SUBCATCHMENT AREAS ARE APPROXIMATELY SPLIT DOWN THE CENTRAL PORTION OF THE DEVELOPED AREA. THERE ARE CURRENTLY NO STORMWATER CONTROLS ON-SITE AND ALL FLOW IS VIA OVERLAND RUNOFF.

1.3 PROPOSED DEVELOPMENT / NATURE OF CONSTRUCTION ACTIVITIES

THE PROPOSED PROJECT PROVIDES FOR A THREE (3) LOT RESIDENTIAL SUBDIVISION. THE TWO EXISTING HOUSES ARE TO REMAIN AND ONE NEW HOUSE LOT HAS BEEN PROPOSED. ALL LOTS ARE GREATER THAN THE MINIMUM 44,000 SQ. FT. LOT AREA AND MINIMUM 180 FEET OF FRONTAGE. THE PROJECT WILL INCLUDE CONSTRUCTION OF A 350 FOOT LONG CUL-DE-SAC ROADWAY TO PROVIDE THE REQUIRED ACCESS AND LOT FRONTAGE. THE PROPOSED ROADWAY WOULD BE CONSTRUCTED IN THE SAME LOCATION AS THE EXISTING PAVED COMMON DRIVEWAY. THE PAVEMENT WOULD BE WIDENED FROM 12 FEET TO THE REQUIRED 20 FEET WIDE FOR FIRE ACCESS. THE ROAD PROFILE HAS PROVIDED RELATIVELY FLAT GRADES WITH AN UP/DOWN SLOPE OF 1% TO 1.5% THROUGH THE ROAD. A "TEE" TYPE TURNAROUND HAS ALSO BEEN PROVIDED AT THE END OF THE ROADWAY FOR EMERGENCY AND DELIVERY VEHICLE MANEUVERING. THE PROPOSED PROJECT WOULD RESULT IN 27,485 SQUARE FEET OF IMPERVIOUS AREA, WHICH WOULD RESULT IN A SLIGHT REDUCTION IN IMPERVIOUS AREAS WHEN COMPARED TO THE EXISTING CONDITIONS.

THE PROPOSED STORMWATER MANAGEMENT SYSTEM HAS BEEN DESIGNED TO CONTROL BOTH THE PEAK RATE AND VOLUME OF RUNOFF TO MATCH THE PRE-EXISTING CONDITIONS THROUGH THE 100 YEAR STORM EVENT. RAINFALL INTENSITIES WERE BASED UPON THE MOST CURRENT NOAA ATLAS 14 DATA. THE STORMWATER MANAGEMENT SYSTEM INCLUDES A SURFACE COLLECTION SYSTEM VIA LID TECHNIQUES OF OVERLAND FLOW OVER GRASSED SURFACES. RUNOFF WOULD THEN BE DIRECTED TO A SHALLOW STORMWATER BASIN WITH A BERM HEIGHT OF TWO (2) FEET. THIS BASIN WILL PROVIDE FOR RECHARGE TO GROUNDWATER, TREATMENT TO 80% TSS, AND CONTROL OF OFF-SITE FLOWS.

| | |
|---------------------------------|---|
| 1.4 CONSTRUCTION SITE ESTIMATES | TOTAL PARCEL AREA: 11.3 ACRES TOTAL LAND DISTURBANCE: 1.5 ACRES IMPERVIOUS AREA BEFORE CONSTRUCTION: 0.6 ACRES IMPERVIOUS AREA AFTER CONSTRUCTION: 0.6 ACRES |
|---------------------------------|---|

1.5 SENSITIVE AREAS / WETLAND RESOURCES

A WETLAND SYSTEM INCLUDING BORDERING VEGETATED WETLANDS AND INTERMITTENT STREAM IS LOCATED TO THE REAR OF THE SITE. THIS SYSTEM FLOWS GENERALLY FROM NORTH TO SOUTH TOWARD THE UNDEVELOPED WOODED LAND ABUTTING TO THE SOUTH OF THE PROJECT. THERE IS ALSO A SMALLER WETLAND AREA THAT HAS BEEN DELINEATED IN THE NORTHEAST CORNER OF THE SITE. THIS AREA CONNECTS VIA A CULVERT UNDER THE ABUTTING DRIVEWAY TO A WETLAND ALONG SUMMER STREET.

1.6 DISCHARGE INFORMATION

STORMWATER GENERALLY FLOWS IN TWO DIRECTIONS. THE AREA THAT FLOWS TO THE NORTHEAST ULTIMATELY CONNECTS TO CHICKEN BROOK (APPROXIMATELY 4,000 FEET FROM THE SITE). THE AREA THAT FLOWS TO THE WEST ULTIMATELY CONNECTS TO HOPPING BROOK. BOTH OF THESE WATER BODIES ARE NOT CLASSIFIED UNDER THE MA SURFACE WATER QUALITY STANDARDS 314 CMR 4. BASED UPON THE MASSACHUSETTS YEAR 2016 INTEGRATED LIST OF WATERS THIS SURFACE WATER IS AN IMPAIRED WATER DUE TO E. COLI, AND IS LISTED AS A CATEGORY 5 WATER, "WATERS REQUIRING A TMDL."

1.7 ENDANGERED SPECIES CERTIFICATION

THE PROPOSED PROJECT IS NOT LOCATED IN AN ESTIMATED OR PRIORITY HABITAT OF RARE WILDLIFE AS INDICATED ON THE 2017 ESTIMATED HABITAT MAP OF STATE-LISTED RARE WETLAND WILDLIFE PUBLISHED BY THE NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM (NHESP)

1.8 POTENTIAL SOURCES OF POLLUTION

POTENTIAL SOURCES OF SEDIMENT TO STORMWATER RUNOFF:

- CLEARING AND GRUBBING OPERATIONS
- GRADING AND SITE EXCAVATION OPERATIONS
- VEHICLE TRACKING
- TOPSOIL STRIPPING AND STOCKPILING
- LANDSCAPING OPERATIONS

POTENTIAL POLLUTANTS AND SOURCES, OTHER THAN SEDIMENT, TO STORMWATER RUNOFF:

- COMBINED STAGING AREA--SMALL FUELING ACTIVITIES, MINOR EQUIPMENT MAINTENANCE, SANITARY FACILITIES, AND HAZARDOUS WASTE STORAGE.
- MATERIALS STORAGE AREA--GENERAL BUILDING MATERIALS, SOLVENTS, ADHESIVES, PAVING MATERIALS, PAINTS, AGGREGATES, TRASH, ETC.
- CONSTRUCTION ACTIVITY--PAVING, CURB/GUTTER INSTALLATION, CONCRETE POURING/MORTAR/STUCCO, BUILDING CONSTRUCTION, AND CONCRETE WASHOUT AREA.

1.9 REQUIREMENT TO POST A NOTICE OF YOUR PERMIT COVERAGE.

THE OPERATOR MUST POST A SIGN OR OTHER NOTICE CONSPICUOUSLY AT A SAFE, PUBLICLY ACCESSIBLE LOCATION IN CLOSE PROXIMITY TO THE PROJECT SITE. AT A MINIMUM, THE NOTICE MUST INCLUDE THE NPDES PERMIT TRACKING NUMBER AND A CONTACT NAME AND PHONE NUMBER FOR OBTAINING ADDITIONAL PROJECT INFORMATION. THE NOTICE MUST BE LOCATED SO THAT IT IS VISIBLE FROM THE PUBLIC RIGHT-OF-WAY THAT IS NEAREST TO THE ACTIVE PART OF THE CONSTRUCTION SITE, AND IT MUST USE A FONT LARGE ENOUGH TO BE READILY VIEWED FROM A PUBLIC RIGHT-OF-WAY.

1.10 SUBCONTRACTORS: EACH SUBCONTRACTOR ENGAGED IN ACTIVITIES AT THE CONSTRUCTION SITE THAT COULD IMPACT STORMWATER MUST BE IDENTIFIED AND SIGN THE SUBCONTRACTOR CERTIFICATIONS/AGREEMENT (ATTACHED).

2.1 GENERAL CONSTRUCTION SEQUENCING OF MAJOR ACTIVITIES
ESTIMATED SCHEDULE: 18-24 MONTHS

GENERAL SEQUENCING PLAN

1. INSTALL SEDIMENT CONTROL BARRIERS AND CONSTRUCTION ENTRANCE OFF SUMMER STREET.
2. REMOVE THE EXISTING STRUCTURES AND PAVEMENT AREAS.
3. INSTALL TEMPORARY SEDIMENT BASINS (IF REQUIRED)
4. CLEAR, STUMP & GRUB ROADWAY AREAS.
5. BEGIN CONSTRUCTION OF ROADWAY.
6. INSTALL ROADWAY CROSS CULVERT PRIOR TO COMPLETING PLACEMENT OF FILL NEAR STATION 0+50 TO PREVENT PONDING ON ABUTTING LAND AND BLOCKAGE OF DRAINAGE FLOW PATHS.
7. INSTALL UTILITIES.
8. INSTALL GRAVEL BASE AND BINDER COURSE PAVEMENT.
9. BEGIN LOT DEVELOPMENT.
10. PERFORM FINAL LANDSCAPING AND STABILIZATION
11. CLEAN AND SEDIMENT AND FINAL INSTALLATION OF THE STORMWATER BASIN.
12. PLACE FINAL TOP COURSE PAVEMENT.
13. REMOVE THE REMAINING SILTATION DEVICES AS THE AREA BECOMES STABLE.

2.2 EROSION AND SEDIMENT CONTROLS

GENERAL CONDITIONS - PRIOR TO INITIATING CONSTRUCTION, ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND DETAIL DRAWINGS. THIS PLAN DETERMINS THE MINIMUM REQUIRED SEDIMENTATION AND EROSION CONTROLS. THE CONTRACTOR SHALL EMPLOY ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES AS NECESSITATED BY SITE CONDITIONS, OR AS DIRECTED BY THE OWNER, THE OWNER'S REPRESENTATIVE, OR THE CONSERVATION COMMISSION TO ENSURE PROTECTION OF ALL WETLAND RESOURCES AND CONTROL SEDIMENT TRANSPORT. IF SEDIMENTATION PLUMES OCCUR, THE CONTRACTOR SHALL STOP WORK AND INSTALL ADDITIONAL SEDIMENTATION CONTROL DEVICES IMMEDIATELY TO PREVENT FURTHER SEDIMENTATION.

TEMPORARY STABILIZATION - TOPSOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 14 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED SHALL BE EROSION CONTROL MIX. SEEDING SHALL BE NUTRIENT ENRICHED HYDROSEED WITH TACKIFIER AND CELLULOSE OR OTHER DEGRADABLE FIBERS CAPABLE OF RETAINING MOISTURE.

PERMANENT STABILIZATION - DISTURBED PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITY CEASES SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY RESCUE, AND ANNUAL RYE. PRIOR TO SEEDING, GROUND AND ANNUAL RYE. PRIOR TO SEEDING, GROUND AGRICULTURAL LIMESTONE SHALL BE APPLIED. SEEDING SHALL BE NUTRIENT ENRICHED HYDROSEED WITH TACKIFIERS AND CELLULOSE OR OTHER DEGRADABLE FIBERS CAPABLE OF RETAINING MOISTURE.

EROSION BARRIER (PERMETER CONTROLS) - EROSION BARRIERS SHALL CONSIST OF COMPOST FILTER SOCKS. PRIOR TO THE COMMENCEMENT OF WORK, FILTER SOCKS SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED DEVELOPMENT, AND AS INDICATED ON THE PLANS. ADDITIONAL EROSION BARRIERS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER, HIS REPRESENTATIVES, OR THE LOCAL AUTHORITY.

TRACK OUT CONTROLS / CONSTRUCTION ENTRANCE - A STABILIZED STONE APRON CONSTRUCTION ENTRANCE SHALL BE AT ALL CONSTRUCTION ENTRANCES TO HELP PREVENT VEHICLE TRACKING OF SEDIMENTS. ALL VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE STABILIZED CONSTRUCTION ENTRANCE. THE CONTRACTOR SHALL INSPECT THE CONSTRUCTION ENTRANCE DAILY AND AFTER HEAVY USE. IF MUD AND SOIL CLOSJS THE VOIDS IN THE CRUSHED STONE REDUCING THE EFFECTIVENESS, THE PAD SHALL BE TOP DRESSED WITH NEW, CLEAN STONE. IF THE PAD BECOMES COMPLETELY CLOGGED, REPLACEMENT OF THE ENTIRE PAD MAY BE NECESSARY. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN.

TRACK OUT CONTROLS / STREET SWEEPING - STREET SWEEPING IN THE VICINITY OF THE PROJECT AREA SHALL BE PERFORMED AS NEEDED UNTIL THE PROJECT LIMITS HAVE BEEN STABILIZED. ALL SEDIMENT TRACKED OUTSIDE THE LIMIT OF WORK SHALL BE SWPT AT THE END OF EACH WORKING DAY.

INLET PROTECTION - ALL EXISTING AND PROPOSED DRAINAGE SYSTEM INLETS, WHICH MAY RECEIVE STORMWATER FLOW FROM DISTURBED AREAS, SHALL BE PROVIDED WITH INLET PROTECTION (CATCH BASIN INSERTS). THE CONTRACTOR SHALL MAINTAIN THESE DEVICES UNTIL ALL WORK IS COMPLETED AND ALL AREAS HAVE BEEN ADEQUATELY STABILIZED.

TEMPORARY SEDIMENT TRAPS-- SEDIMENT TRAPS AND/OR BASINS SHALL BE CONSTRUCTED AS NECESSITATED BY FIELD CONDITIONS. THE MINIMUM VOLUME SHALL BE 18000 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA. SEDIMENT TRAPS/BASINS SHOULD BE READILY ACCESSIBLE FOR MAINTENANCE AND SEDIMENT REMOVAL, AND SHOULD REMAIN IN OPERATION AND BE PROPERLY MAINTAINED UNTIL THE SITE AREA IS PERMANENTLY STABILIZED BY VEGETATION AND/OR WHEN PERMANENT STRUCTURES ARE IN PLACE. REMOVE BASIN AFTER DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, INSPECTED, AND APPROVED. BEFORE REMOVING DAM, DRAIN WATER AND REMOVE SEDIMENT; PLACE WASTE MATERIAL IN DESIGNATED DISPOSAL AREAS. SMOOTH SITE TO BLEND WITH SURROUNDING AREA AND STABILIZE.

DUST CONTROL - DUST CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED PROPERLY THROUGHOUT DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. METHODS FOR DUST CONTROL SHALL INCLUDE WATER SPRINKLING AND/OR OTHER METHODS APPROVED BY THE ENGINEER.

SOIL STOCKPILES - SOIL STOCKPILES SHALL BE STABILIZED TO PREVENT EROSION ALONG WITH PERMETER SEDIMENTATION CONTROLS. NO MATERIALS SUBJECT TO EROSION SHALL BE STOCKPILED OVERNIGHT WITHIN 100 FEET OF A WETLAND UNLESS COVERED.

DEWATERING OPERATIONS - DEWATERING OPERATIONS, IF REQUIRED, SHALL DISCHARGE ONTO STABILIZED AREAS. ALL DISCHARGE WATER IS TO PASS THROUGH SEDIMENTATION CONTROL DEVICES TO PREVENT IMPACTS UPON WATER BODIES, BORDERING VEGETATED WETLANDS, DRAINAGE SYSTEMS AND ABUTTING PROPERTIES. NO DISCHARGES FROM DEWATERING OPERATIONS SHALL BE DISCHARGED DIRECTLY TO THE DRAINAGE SYSTEM.

SNOW REMOVAL - SNOW SHALL BE PLOWED TO THE SHOULDER OF THE ROADWAY. ANY EXCESS OF THAT WHICH CAN BE STORED ON-SITE SHALL BE REMOVED. SNOW SHALL NOT BE PLOWED INTO THE CONSTRUCTED WETLAND OR INTO THE 20-FOOT BUFFER ZONE TO ANY WETLAND AREA. ALL CATCH BASINS SHALL BE UNCOVERED AND FUNCTIONAL IMMEDIATELY AFTER SNOW PLOWING. ANY SNOW PILES SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH RUNOFF FLOW.

TOPSOIL - TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON-SITE FOR REUSE, UNLESS OTHERWISE NOTED ON THE PLANS (PER STOCKPILE REQUIREMENTS). MATERIALS SHALL BE RE-USED ON-SITE TO THE MAXIMUM EXTENT PRACTICAL. ANY EXCESS SHALL BE PROPERLY EXPORTED OFF-SITE.

MINIMIZE SOIL COMPACTION - WITHIN THE LIMITS OF THE INFILTRATION GALLEY, THE USE OF HEAVY EQUIPMENT SHALL BE LIMITED TO THE MAXIMUM EXTENT PRACTICAL.

VEHICLE WASHING - VEHICLE AND EQUIPMENT WASHING, OTHER THAN HOSE DOWN WITH CLEAN WATER, SHALL NOT BE ALLOWED. ALL WASH DOWN WATER SHALL BE DIRECTED TO A SEDIMENT CONTROL DEVICE (NOT DIRECTLY TO ANY STORMWATER DRAINAGE SYSTEM OR WETLAND).

FERTILIZER DISCHARGE RESTRICTIONS.

- APPLY AT A RATE AND IN AMOUNTS CONSISTENT WITH MANUFACTURER'S SPECIFICATIONS.
- APPLY DURING THE GROWING SEASON, AND PREFERABLY TIMED TO COINCIDE AS CLOSELY AS POSSIBLE TO THE PERIOD OF MAXIMUM VEGETATION UPTAKE AND GROWTH;
- AVOID APPLYING BEFORE HEAVY RAINS THAT COULD CAUSE EXCESS NUTRIENTS TO BE DISCHARGED;
- NEVER APPLY TO FROZEN GROUND;
- NEVER APPLY TO STORMWATER CONVEYANCE CHANNELS WITH FLOWING WATER; AND
- FOLLOW ALL OTHER FEDERAL, STATE, TRIBAL, AND LOCAL REQUIREMENTS REGARDING FERTILIZER APPLICATION.

WASHING OF APPLICATIONS AND CONTAINERS USED FOR PAINT, CONCRETE, OR OTHER MATERIALS - DIRECT ALL WASH WATER INTO A LEAK-PROOF CONTAINER OR LEAK-PROOF PIT. THE CONTAINER OR PIT MUST BE DESIGNED SO THAT NO OVERFLOWS CAN OCCUR DUE TO INADEQUATE SIZING OR PRECIPITATION HANDLE WASHOUT OR CLEANOUT WASTES AS FOLLOWS: DO NOT DUMP LIQUID WASTES IN STORM SEWERS; DISPOSE OF LIQUID WASTES IN ACCORDANCE WITH APPLICABLE REGULATIONS; AND REMOVE AND DISPOSE OF HARDENED CONCRETE WASTE CONSISTENT WITH YOUR HANDLING OF OTHER CONSTRUCTION WASTES. LOCATE ANY WASHOUT OR CLEANOUT ACTIVITIES AS FAR AWAY AS POSSIBLE FROM SURFACE WATERS AND STORMWATER INLETS OR CONVEYANCES, AND, TO THE EXTENT PRACTICABLE, DESIGNATE AREAS TO BE USED FOR THESE ACTIVITIES AND CONDUCT SUCH ACTIVITIES ONLY IN THESE AREAS.

2.3 INSPECTION AND MAINTENANCE SCHEDULE

THE RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY AND PERMANENT SEDIMENTATION AND EROSION CONTROLS UNTIL WORK IS COMPLETE AND ALL AREAS HAVE BEEN PERMANENTLY STABILIZED. AT SUCH TIME ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED. THESE ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION.

SCHEDULE:

- ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE EACH WEEK.
- ALL EROSION PROTECTION SHALL BE INSPECTED WITHIN 24 HOURS FOLLOWING ANY PRECIPITATION EVENT OF 0.25 INCHES.
- DEPTH OF PRECIPITATION EVENTS SHALL BE BASED UPON NODC REPORTING.

MAINTENANCE PRACTICES:

- ALL AREAS SHALL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT OF ANY DEFICIENCIES.
- BUILT UP SEDIMENT SHALL BE REMOVED FROM THE SILT FENCE WHEN IT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE FENCE.
- THE SEDIMENT TRAPS SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 25 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB. CHECK EMBANKMENT FOR SETTLEMENT, SEEPAGE, OR SLUMPING ALONG THE TOP OR AROUND PIPE. LOOK FOR SIGNS OF PIPING. REPAIR IMMEDIATELY. REMOVE TRASH AND OTHER DEBRIS FROM PRINCIPAL SPILLWAY, EMERGENCY SPILLWAY, AND POOL AREA. OREN OR REPLACE GRAVEL WHEN SEDIMENT POOL DOES NOT DRAIN PROPERLY.
- ANY PERSONS DESIGNED FOR BREACHES AND PROMPTLY REPAIRED.
- TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS AND HEALTHY GROWTH.
- CONTRACTOR TO MAINTAIN A SUPPLY OF EROSION CONTROL DEVICES ON SITE AT ALL TIMES TO REPAIR ANY BROKEN OR DAMAGED MATERIALS.
- STREET SWEEPING SHALL BE PERFORMED THROUGHOUT CONSTRUCTION AS REQUIRED. ANY SEDIMENT TRACKED ONTO PUBLIC WAYS SHALL BE SWPT BY THE END OF EACH WORKING DAY.
- CATCH BASINS AND STORMCEPTORS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND CLEANED WHENEVER SEDIMENT REACHES 12-INCHES IN CATCH BASINS AND 8-INCHES IN STORMCEPTORS.

THE SITE SUPERINTENDENT WILL SELECT THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORTS. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL BE A "QUALIFIED PERSONNEL" AS DEFINED IN SECTION 2.0 OF THE BID. THE STAFF SHALL BE TRAINED IN ALL INSPECTION AND MAINTENANCE PRACTICES FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

AN INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. COPIES OF THE REPORTS SHALL BE MAINTAINED ON SITE. AT A MINIMUM, THE INSPECTION REPORT MUST INCLUDE:

- THE INSPECTION DATE;
- NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
- WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION INCLUDING ESTIMATE OF THE BEGINNING AND DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED;
- LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
- LOCATION(S) OF BMPs THAT NEED TO BE MAINTAINED;
- LOCATION(S) OF BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
- LOCATION(S) WHERE ADDITIONAL BMPs ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
- CORRECTIVE ACTION REQUIRED INCLUDING IMPLEMENTATION DATES.

THE INSPECTION REPORT MUST BE SIGNED IN ACCORDANCE WITH APPENDIX G, SECTION 11 OF THE GCP.

2.5 STAFF AND TRAINING REQUIREMENTS.

PRIOR TO THE COMMENCEMENT OF EARTH-DISTURBING ACTIVITIES OR POLLUTANT-GENERATING ACTIVITIES, WHICHEVER OCCURS FIRST, YOU MUST ENSURE THAT THE FOLLOWING PERSONNEL UNDERSTAND THE REQUIREMENTS OF THIS PERMIT AND THEIR SPECIFIC RESPONSIBILITIES WITH RESPECT TO THOSE REQUIREMENTS.

- PERSONNEL WHO ARE RESPONSIBLE FOR THE DESIGN, INSTALLATION, MAINTENANCE, AND/OR REPAIR OF STORMWATER CONTROLS (INCLUDING POLLUTION PREVENTION MEASURES);
- PERSONNEL RESPONSIBLE FOR THE APPLICATION AND STORAGE OF TREATMENT CHEMICALS (IF APPLICABLE);
- PERSONNEL WHO ARE RESPONSIBLE FOR CONDUCTING INSPECTIONS AS REQUIRED IN PART 4.1.1; AND
- PERSONNEL WHO ARE RESPONSIBLE FOR TAKING CORRECTIVE ACTIONS.

NOTES: (1) IF THE PERSON REQUIRING TRAINING IS A NEW EMPLOYEE, WHO STARTS AFTER YOU COMMENCE EARTH-DISTURBING OR POLLUTANT-GENERATING ACTIVITIES, YOU MUST ENSURE THAT THIS PERSON HAS THE PROPER UNDERSTANDING AS RELAT TO ASSUMING PARTICULAR RESPONSIBILITIES WITH RESPECT TO THOSE REQUIREMENTS. (2) FOR EMERGENCY-RELATED CONSTRUCTION ACTIVITIES, THE REQUIREMENT TO TRAIN PERSONNEL PRIOR TO COMMENCEMENT OF EARTH-DISTURBING ACTIVITIES DOES NOT APPLY, HOWEVER, SUCH PERSONNEL MUST HAVE THE REQUIRED TRAINING PRIOR TO NO SUBMISSION.

THE OPERATOR IS RESPONSIBLE FOR ENSURING THAT ALL ACTIVITIES ON THE SITE COMPLY WITH THE REQUIREMENTS OF THE PERMIT. THE OPERATOR IS NOT REQUIRED TO PROVIDE OR DOCUMENT FORMAL TRAINING FOR SUBCONTRACTORS OR OTHER OUTSIDE SERVICE PROVIDERS, BUT YOU MUST ENSURE THAT SUCH PERSONNEL UNDERSTAND ANY REQUIREMENTS OF THE PERMIT THAT MAY BE AFFECTED BY THE WORK THEY ARE SUBCONTRACTED TO PERFORM. AT A MINIMUM, PERSONNEL MUST BE TRAINED TO UNDERSTAND THE FOLLOWING IF RELATED TO THE SCOPE OF THEIR JOB DUTIES (E.G., ONLY PERSONNEL RESPONSIBLE FOR CONDUCTING INSPECTIONS NEED TO UNDERSTAND HOW TO CONDUCT INSPECTIONS).

- THE LOCATION OF ALL STORMWATER CONTROLS ON THE SITE REQUIRED BY THIS PERMIT, AND HOW THEY ARE TO BE MAINTAINED;
- THE PROPER PROCEDURES TO FOLLOW WITH RESPECT TO THE PERMIT'S POLLUTION PREVENTION REQUIREMENTS; AND
- WHEN AND HOW TO CONDUCT INSPECTIONS, RECORD APPLICABLE FINDINGS, AND TAKE CORRECTIVE ACTIONS.

3.1 STORAGE, HANDLING, AND WASTE DISPOSAL

BUILDING PRODUCTS - SHALL BE COVERED OR STORED INSIDE TO PREVENT ANY DISCHARGE OF POLLUTANTS. COMPLY WITH ALL APPLICATION, DISPOSAL, AND REGISTRATION REQUIREMENTS.

PESTICIDES, HERBICIDES, INSECTICIDES AND FERTILIZERS - SHALL BE COVERED OR STORED INSIDE TO PREVENT ANY DISCHARGE OF POLLUTANTS. COMPLY WITH ALL APPLICATION, DISPOSAL, AND REGISTRATION REQUIREMENTS.

DIESEL FUEL, OIL, HYDRAULIC FLUIDS, OTHER PETROLEUM PRODUCTS, AND OTHER CHEMICALS- STORE CHEMICALS IN

WATER-TIGHT CONTAINERS, AND PROVIDE (E.G., PLASTIC SHEETING OR TASTIC SHED ROOFS) TO PREVENT THESE CONTAINERS FROM COMING INTO CONTACT WITH RAINWATER, OR (2) A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS FROM THESE AREAS (E.G., SPILL KITS), OR PROVIDE SECONDARY CONTAINMENT (E.G., SPILL BERMS, DECKS, SPILL CONTAINMENT PALLETTS). CLEAN UP SPILLS IMMEDIATELY, USING DRY CLEAN-UP METHODS WHERE POSSIBLE, AND DISPOSE OF USED MATERIALS PROPERLY. DO NOT CLEAN SURFACES OR SPILLS BY HOSING THE AREA DOWN. ELIMINATE THE SOURCE OF THE SPILL TO PREVENT A DISCHARGE OR A CONTINUATION OF AN ONGOING DISCHARGE.

HAZARDOUS WASTE - SEPARATE HAZARDOUS OR TOXIC WASTE FROM CONSTRUCTION AND DOMESTIC WASTE. STORE WASTE IN SEALED CONTAINERS, WHICH ARE CONSTRUCTED OF SUITABLE MATERIALS TO PREVENT LEAKAGE AND CORROSION, AND WHICH ARE LABELED IN ACCORDANCE WITH APPLICABLE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REQUIREMENTS AND ALL OTHER APPLICABLE FEDERAL, STATE, TRIBAL, OR LOCAL REQUIREMENTS. III. STORE ALL CONTAINERS THAT WILL BE STORED OUTSIDE WITHIN APPROPRIATELYSIZED SECONDARY CONTAINMENT (E.G., SPILL BERMS, DECKS, SPILL CONTAINMENT PALLETTS) TO PREVENT SPILLS FROM BEING DISCHARGED, OR PROVIDE A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS FROM THESE AREAS (E.G., STORING CHEMICALS IN COVERED AREA OR HAVING A SPILL KIT AVAILABLE ON SITE);

DISPOSE OF HAZARDOUS OR TOXIC WASTE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED METHOD OF DISPOSAL AND IN COMPLIANCE WITH FEDERAL, STATE, TRIBAL, AND LOCAL REQUIREMENTS. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICE AND THE INDIVIDUAL WHO MANAGES THE DAY TO DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

CLEAN UP SPILLS IMMEDIATELY, USING DRY CLEAN-UP METHODS WHERE POSSIBLE, AND DISPOSE OF USED MATERIALS PROPERLY. DO NOT CLEAN SURFACES OR SPILLS BY HOSING THE AREA DOWN. ELIMINATE THE SOURCE OF THE SPILL TO PREVENT A DISCHARGE OR A FURTHERANCE OF AN ONGOING DISCHARGE

SANITARY WASTE - ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY THE SANITARY PUMPING COMPANY, LICENSED BY THE COMMONWEALTH OF MASSACHUSETTS AND AS REQUIRED BY THE LOCAL REGULATION. POSITION UNITS IN A SECURE LOCATION WHERE THEY CANNOT BE TIPPED OVER.

WASTE MATERIALS - ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LODDED METAL DUMPSTER RENTED FROM A LICENSED WASTER MANAGEMENT COMPANY. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTER MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE MAINTAINED AT LEAST TWICE PER MONTH. IF NECESSARY, AND THE WASTE WILL BE HAULED TO THE WASTE MANAGEMENT COMPANY, ON WORK DAYS. CLEAN UP AND DISPOSAL OF WASTE. DESIGNATED WASTE CONTAINERS. CLEAN UP IMMEDIATELY IF CONTAINERS OVERFLOW. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE OFFICE TRAILER. THE INDIVIDUAL MANAGING THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

3.2 BUILDING MATERIAL INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

- CONCRETE
- PETROLEUM BASED PRODUCTS INCLUDING ASPHALT CONCRETE/EMULSIONS, FUEL(S), OIL, ETC.
- WOOD
- FERTILIZERS AND TACHIFIERS
- PAINTS (ENAMEL, LATEX AND OIL BASED STAINS)
- METAL STUDS AND PRODUCTS
- MASONRY BLOCK
- ROOFING SHINGLES
- GYPSUM AND PLASTER
- STONE PRODUCTS

CONSTRUCTION EQUIPMENT AND MAINTENANCE MATERIALS WILL BE STORED AT THE COMBINED STAGING AREA AND MATERIALS STORAGE AREAS. A WATERTIGHT CONTAINER WILL BE USED TO STORE HAND TOOLS, SMALL PARTS, AND OTHER CONSTRUCTION MATERIALS.

3.3 SPILL PREVENTION MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF. GOOD HOUSEKEEPING - THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

- AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCTS TO DO THE JOB.
- ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THIS APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
- PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS AND WITH THE ORIGINAL MANUFACTURERS' LABEL.
- SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURERS.
- WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
- MANUFACTURERS' RECOMMENDATION FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.
- HAZARDOUS PROCEDURES - IN ACCORDANCE WITH INDUSTRY STANDARDS AND APPLICABLE REGULATIONS

PRODUCT SPECIFIC PRACTICES - THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE: PETROLEUM PRODUCTS - TRANSPORT AND DELIVERY OF FUEL IN APPROVED CONTAINERS ONLY. FERTILIZERS - IN ACCORDANCE WITH LABELING. PAINTS - IN ACCORDANCE WITH LABELING

SPILL CONTROL PRACTICES - ANY SPILLS OF HAZARDOUS MATERIALS SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY. IF APPROPRIATE, THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) SHALL BE NOTIFIED. THERE SHALL, AT ALL TIMES WHEN WORK IS UNDERWAY ON-SITE, BE AN INDIVIDUAL PRESENT WHO IS TRAINED IN PROPER SPILL CONTROL PRACTICES.

IN THE EVENT THAT HAZARDOUS MATERIAL, GASOLINE OR OTHER PETROLEUM IS RELEASED, THE FOLLOWING PROCEDURE SHOULD BE FOLLOWED:

1. IMMEDIATELY CONTACT THE FOLLOWING AGENCIES:
MEDWAY FIRE DEPARTMENT (508) 533-3211
MASSDEP EMERGENCY RESPONSE (888) 304-1133
2. PROVIDE SUPPORT TO AGENCIES LISTED ABOVE, WHICH MAY INCLUDE CONTACTING AN OUTSIDE CONTRACTOR TO PROVIDE CLEAN-UP OR CONTACTING A LICENSED SITE PROFESSIONAL (LSP) TO LEAD THE CLEAN-UP.

WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE OR OIL IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR PART 110, 40 CFR PART 117 OR 40 CFR PART 302, OCCURS DURING A 24-HOUR PERIOD:

0 PROVIDE NOTICE TO THE NATIONAL RESPONSE CENTER (NRC) (800-424-8802; IN THE WASHINGTON, DC, METROPOLITAN AREA CALL 202-267-2675) IN ACCORDANCE WITH THE REQUIREMENTS OF 40 CFR PART 110, 40 CFR PART 117 AND 40 CFR PART 302 AS SOON AS SITE STAFF HAVE KNOWLEDGE OF THE DISCHARGE; AND

0 WITHIN 7 CALENDAR DAYS OF KNOWLEDGE OF THE RELEASE, PROVIDE A DESCRIPTION OF THE RELEASE, THE CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF THE RELEASE. YOU MUST ALSO IMPELMENT MEASURES TO PREVENT THE REOCCURENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES.

VEHICLE FUELING AND MAINTENANCE - ALL MAJOR EQUIPMENT/VEHICLE FUELING AND MAINTENANCE WILL BE PERFORMED OFF-SITE. WHEN VEHICLE FUELING MUST OCCUR ON-SITE, THE FUELING ACTIVITY WILL OCCUR IN THE STAGING AREA OUTSIDE THE BUFFER ZONE OR RESOURCE AREA. ONLY MINOR EQUIPMENT MAINTENANCE WILL OCCUR ON-SITE. ALL EQUIPMENT FLUIDS GENERATED FROM MAINTENANCE ACTIVITIES WILL BE DISPOSED OF INTO DESIGNATED DRUMS STORED ON SPILL PALLETS IN ACCORDANCE WITH PART 31 OF THE GCP. ABSORBENT, SPILL-CLEANUP MATERIALS AND SPILL KITS WILL BE AVAILABLE AT THE COMBINED STAGING AND MATERIALS STORAGE AREA. DRIP PANS WILL BE PLACED UNDER ALL EQUIPMENT RECEIVING MAINTENANCE AND VEHICLES AND EQUIPMENT PARKED OVERNIGHT.

3.4 NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGE WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

- PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIAL HAVE OCCURRED);
- DISCHARGES FROM FIRE FIGHTING ACTIVITIES
- HYDRANT AND WATER LINE FLUSHING
- LANDSCAPE IRRIGATION
- VEHICLE WASH
- WATER FOR DUST CONTROL
- FOUNDATION / FOOTING DRAINS
- CONSTRUCTION DEWATERING WATER

4.0 RECORD KEEPING / UPDATING OF DOCUMENTATION

THIS DOCUMENT IS INTENDED AS A LIVING DOCUMENT TO BE CONTINUOUSLY REVISED AND UPDATED BASED ON CHANGING SITE CONDITIONS AND THE PROGRESSION OF CONSTRUCTION. THE SWPPP SHALL BE CONTINUOUSLY REVISED TO INDICATE THE CONDITION AND LOCATION OF THE VARIOUS BEST MANAGEMENT PRACTICES.

COPIES OF THE GCP, SIGNED AND CERTIFIED NOI, AND EPA NOTIFICATION OF RECEIPT MUST BE INCLUDED IN THE SWPPP. THIS SWPPP PLAN, THE APPROVED DRAWINGS MADE PART OF THIS DOCUMENT, INSPECTION REPORTS (MADE AT LEAST WEEKLY), AND REQUIRED LOGS SHALL BE MAINTAINED ON SITE AT ALL TIMES.