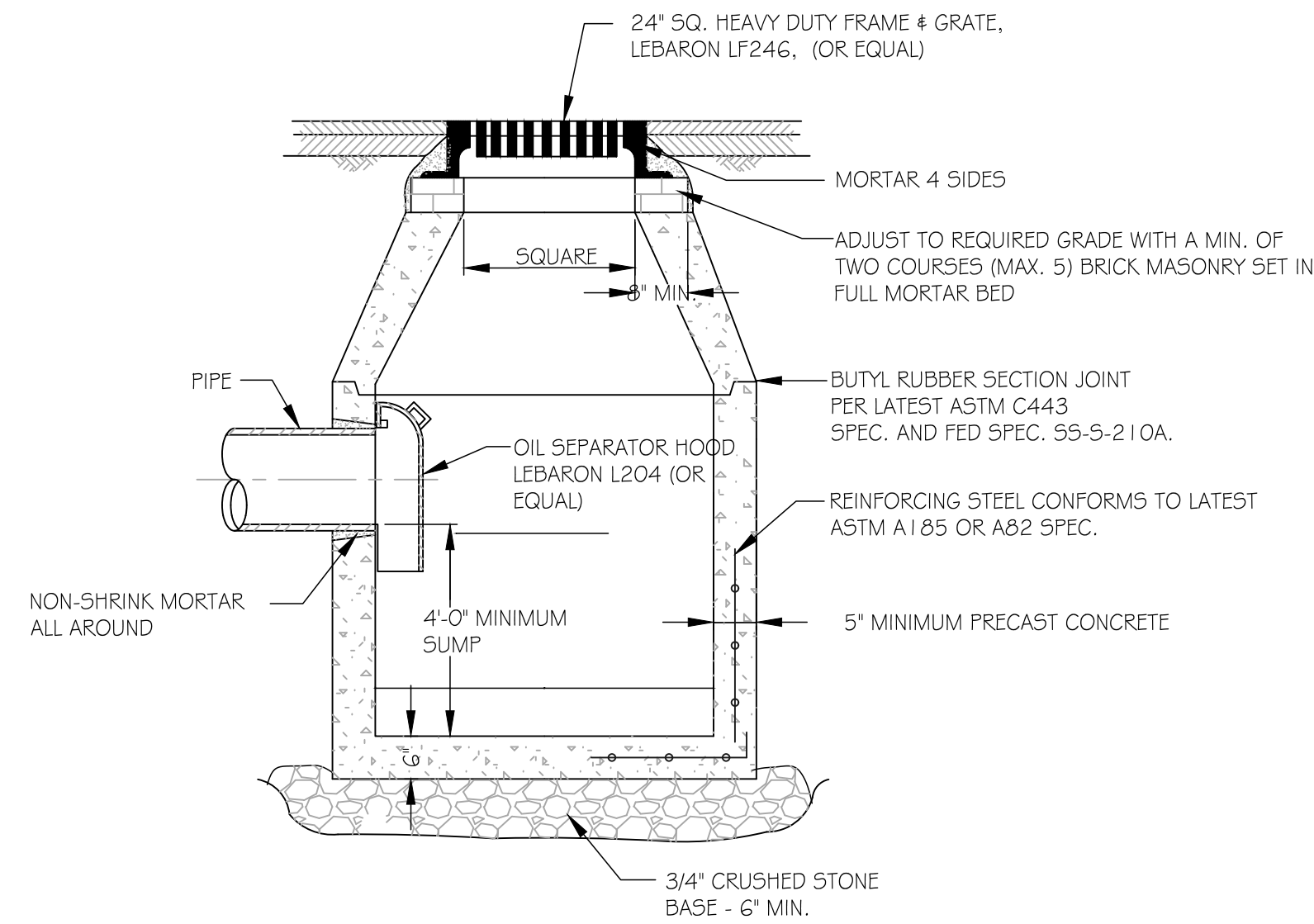
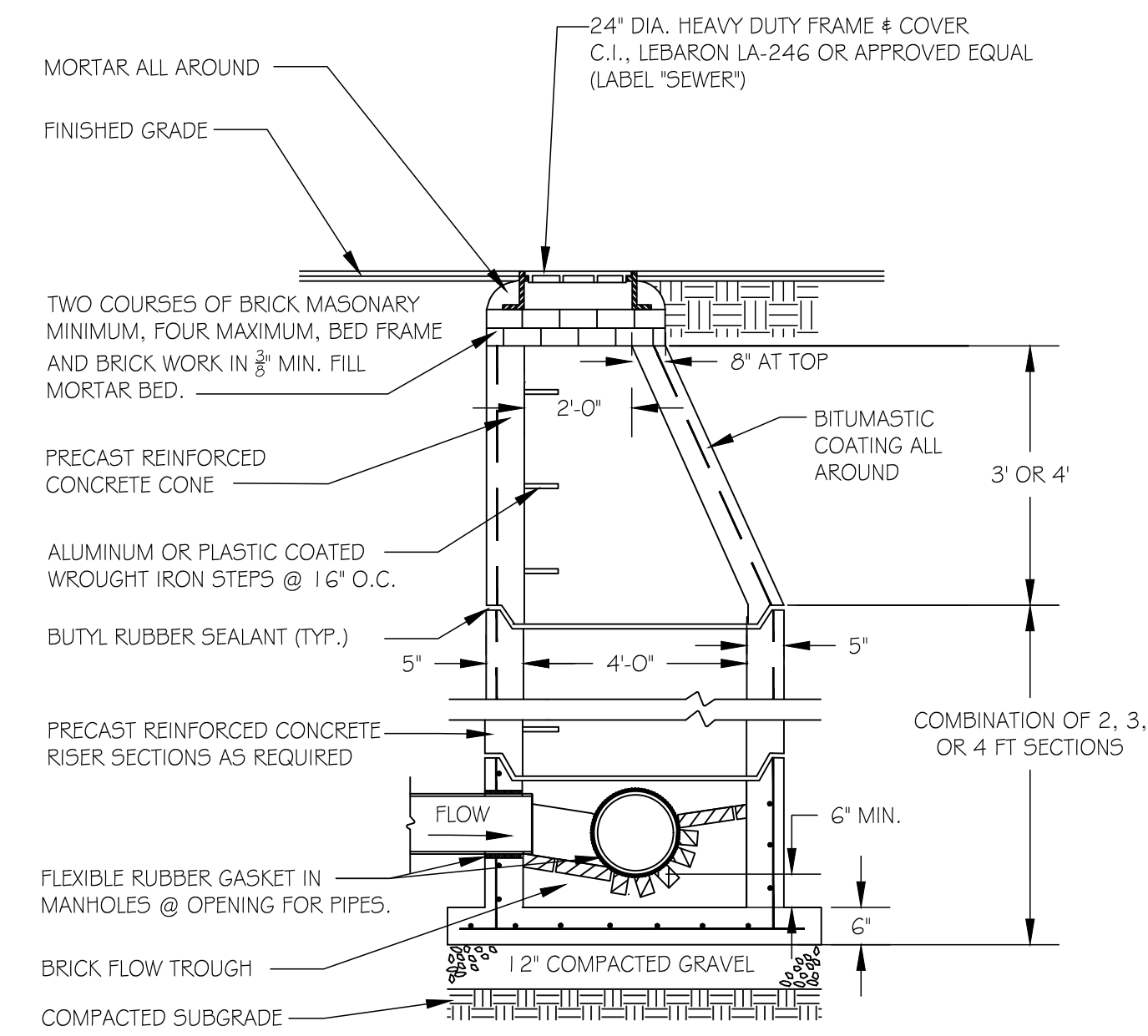


PRECAST DRAIN MANHOLE
N.T.S.



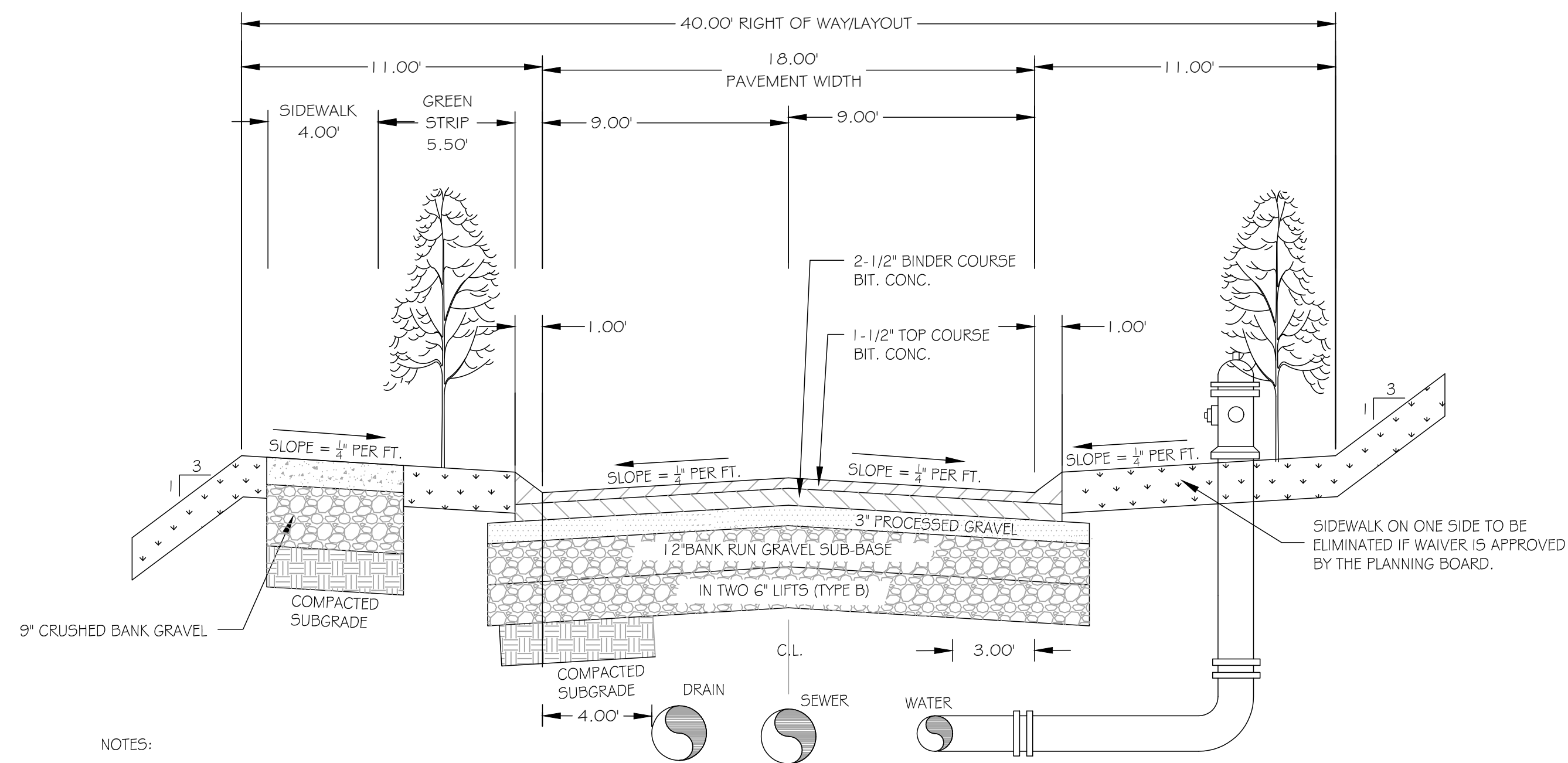
- NOTES:
1. MANHOLE DESIGN TO CONFORM TO LATEST ASTM C-478 SPECIFICATIONS FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
 2. ALL STRUCTURES SHALL BE SUITABLE FOR H-20 LOADING AND SHALL MEET THE REQUIREMENTS OF ASTM C-478.

PRECAST CONCRETE CATCH BASIN
N.T.S.

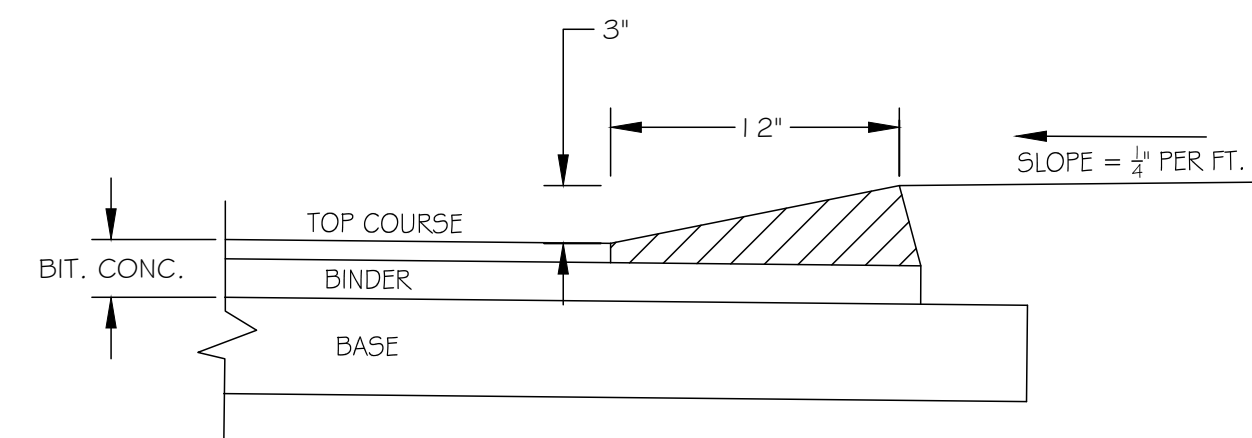


- NOTE:
- ALL STRUCTURES SHALL BE SUITABLE FOR H-20 LOADING AND SHALL MEET THE REQUIREMENTS OF ASTM C478 AND LOCAL DPW.

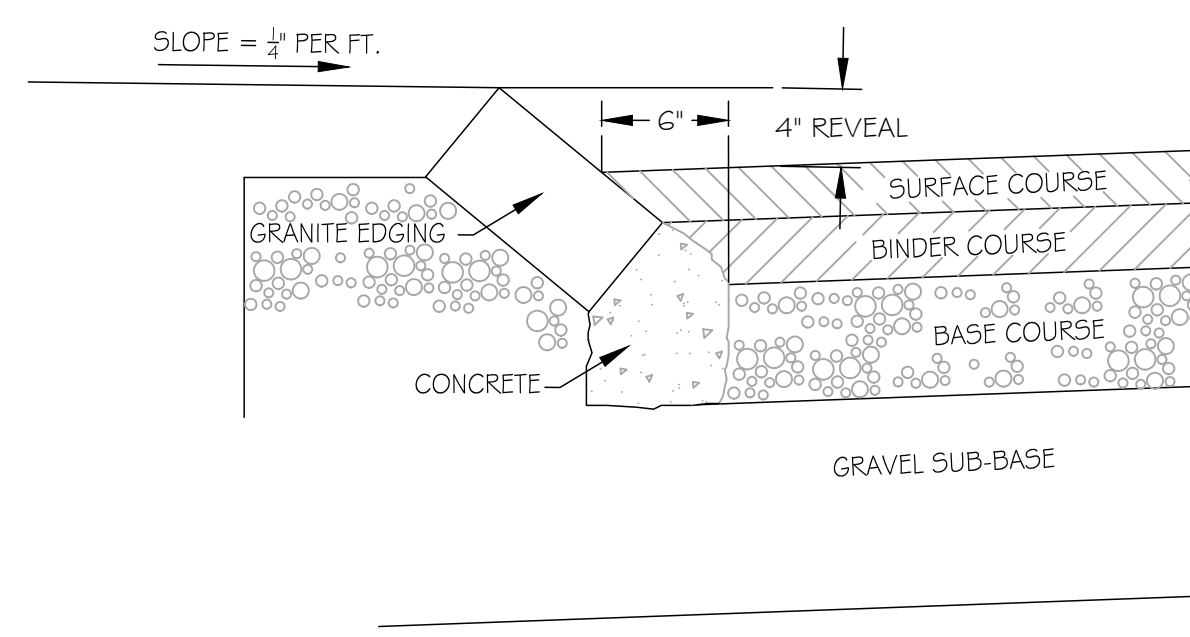
PRECAST CONCRETE SANITARY MANHOLE
N.T.S.



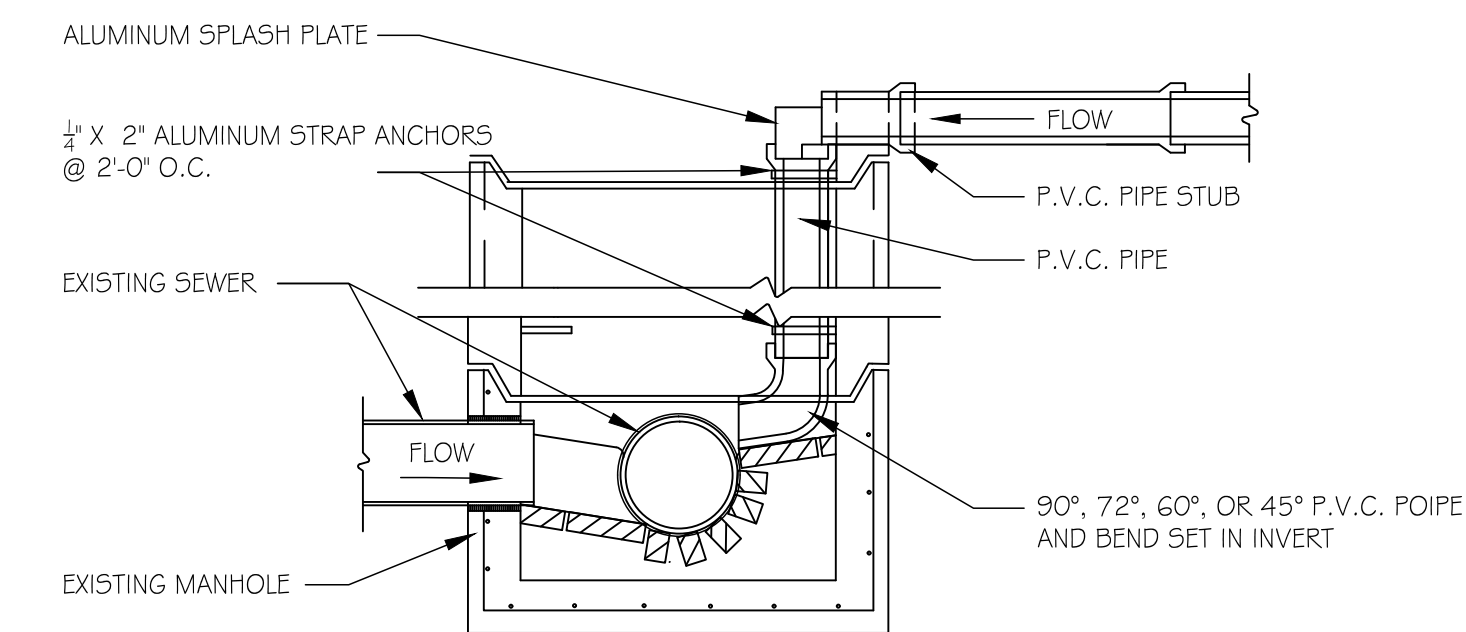
- NOTES:
- SEWER MAIN IS TO BE LOCATED IN THE CENTER OF ROADWAY.
 - SEWER SERVICES CLEANOUTS ARE TO BE PLACED AT THE PROPERTY LINE.
 - DRAIN LINES SHALL BE LOCATED 4-FT OFF THE FACE OF THE BERM ON THE WEST SIDE OF THE STREET FOR ROADS RUNNING NORTH AND SOUTH AND ON THE SOUTH SIDE FOR ROADS RUNNING EAST AND WEST.
 - WATER MAINS SHALL BE LOCATED 3-FT OFF THE FACE OF BERM ON THE EAST SIDE OF THE STREET FOR ROADS RUNNING NORTH AND SOUTH AND ON THE NORTH SIDE FOR ROADS RUNNING EAST AND WEST.
 - HYDRANT SHALL BE LOCATED ON THE SAME SIDE OF THE WATER MAIN, IN THE PLANTING STRIP WITH THE HYDRANT STEAMER NOZZLE 1-2 FT. BEHIND THE BACK OF SIDEWALK.
 - WATER SHUTOFFS SHALL LOCATED IN THE PLANTING STRIP 2 FT. BEHIND THE BACK OF SIDEWALK.



BITUMINOUS CONCRETE BERM
N.T.S.



SLOPED GRANITE EDGING
N.T.S.



- NOTE:
- DROP INLET SHALL MEET THE REQUIREMENTS OF THE TOWN OF FAIRHAVEN DEPARTMENT OF PUBLIC WORKS

SEWER DROP INLET DETAIL
N.T.S.

FOR REGISTRY OF DEEDS USE ONLY

I CERTIFY THAT THIS PLAN CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTERS OF DEED

PREPARER

FAIRHAVEN PLANNING BOARD
APPROVED UNDER SUBDIVISION CONTROL LAW

DATE OF APPROVAL _____

DATE OF SIGNING _____

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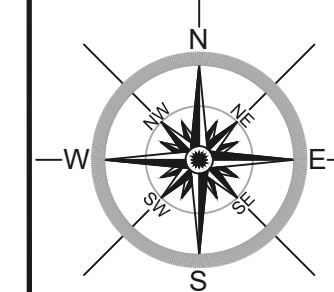


"DEFINITIVE SUBDIVISION PLAN"
OF DEVELOPMENT TO BE KNOWN AS
RESIDENCE BY THE GIRLS CREEK
OFF SCONTICUT NECK ROAD
IN FAIRHAVEN, MA

PREPARED FOR
ALEXANDER GRAY DEVELOPMENT, LLC
ACUSHNET, MA

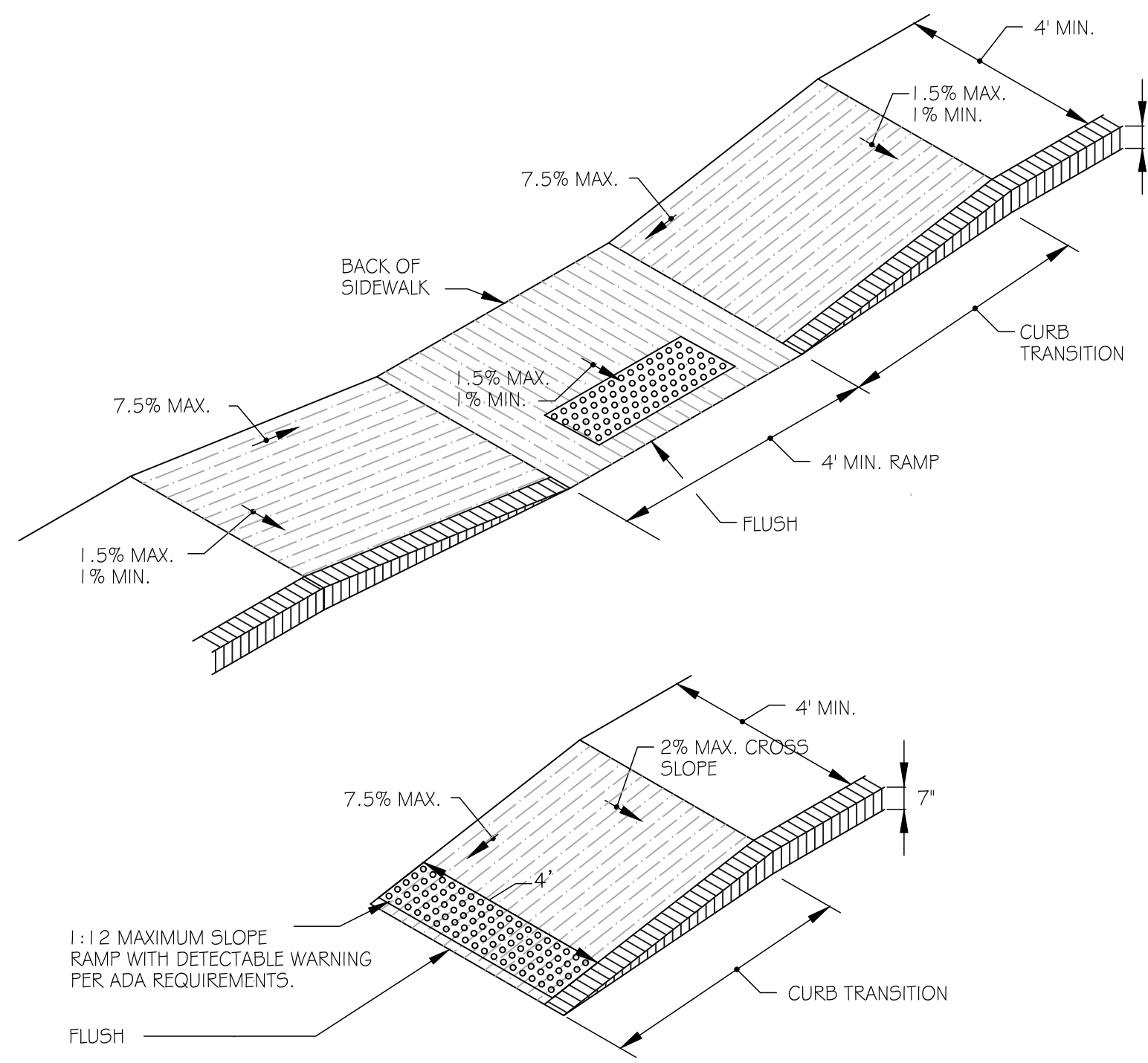
SHEET 15 OF 15 - CONSTRUCTION DETAILS

NESRA ENGINEERING, LLC



170 BUNGAY ROAD
N. ATTLEBORO, MA 02760
(617) 506-3772
WWW.NESRAENG.COM

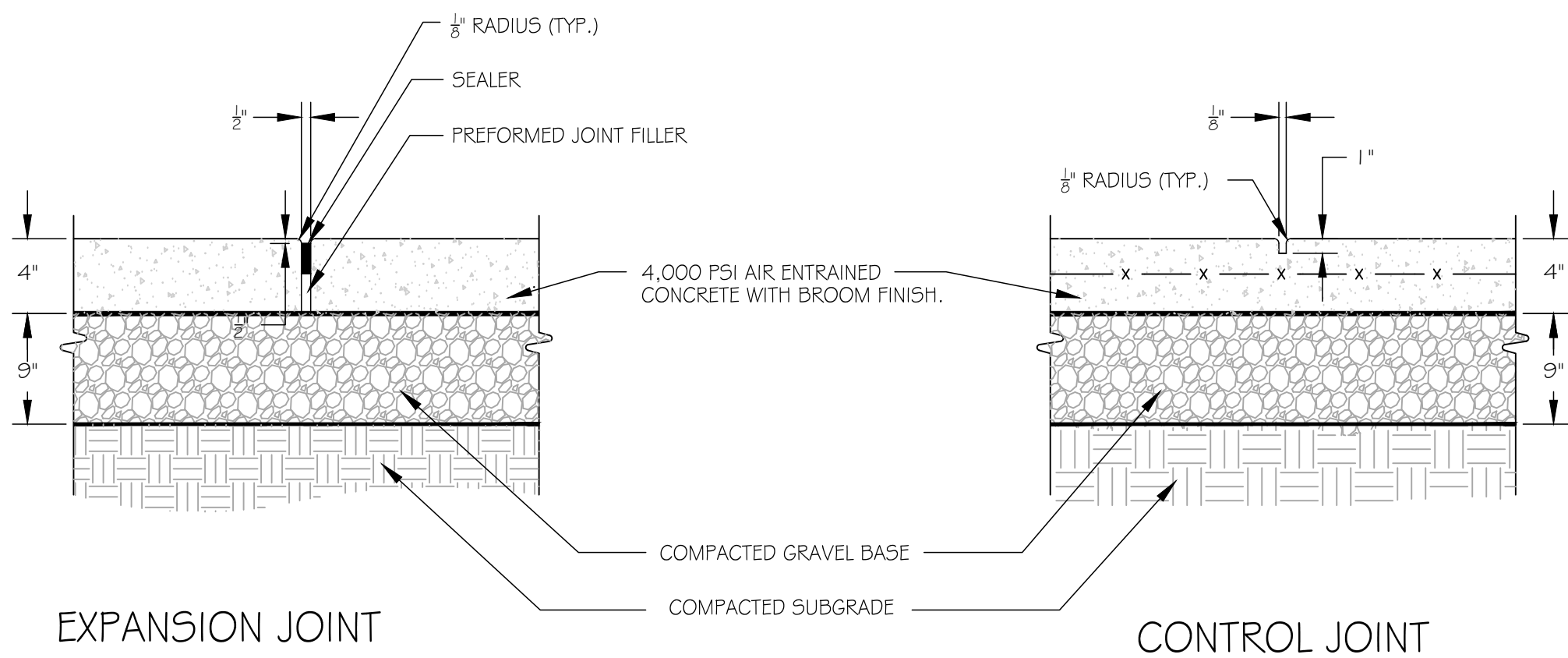
SCALE: 1"=40' DATE: 4/10/19 PREP. BY: AH REV. BY: JJP



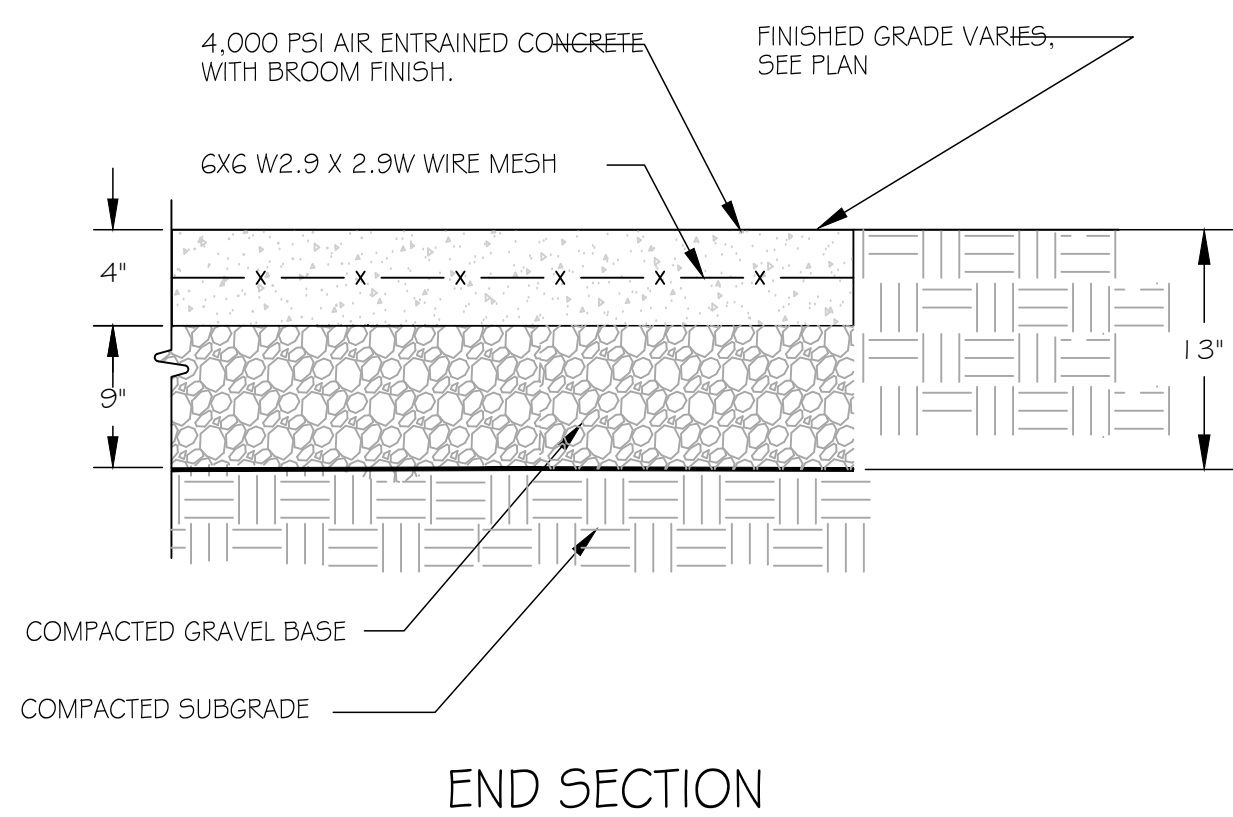
- NOTES:
1. SEE PLANS FOR CURB TYPE.
 2. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 2.0% (1% MIN.)
 3. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5.0%.
 4. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMPS SHALL BE 7.5%
 5. GRADE BASE OF RAMP TO PREVENT PONDING.
 6. ALL RAMPS (INDICATED BY) SHALL BE CEMENT CONCRETE WITH A TEXTURED AND COLORED NON-SLIP SURFACE (WARNING MAT) CONFORMING TO APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. ACCESSIBLE RAMP DETECTABLE WARNING MAT SHALL BE AS MANUFACTURED BY "THE DURABAK COMPANY" 303-690-7190, OR APPROVED EQUAL. THE WARNING MAT SYSTEMS SHALL CONFORM TO ALL RELEVANT PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS AND THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD REQUIREMENTS, WHICHEVER IS STRICTER. THE SYSTEMS SHALL BE A PERMANENT MAT THAT IS APPLIED AT ACCESSIBLE RAMPS DIRECTLY TO CLEAN DRY CONCRETE SURFACES WITH LONG-LASTING ADHESIVE TO AID THE BLIND AND VISUALLY IMPAIRED. THE MAT SHALL INCORPORATE TRUNCATED DOMES POSITIONED TO ADA SPECIFICATIONS.
 7. CURB RAMP AT SCANTICUT NECK ROAD TRANSITION CURB TO MATCH EXISTING MATERIAL, TYPE AND GRADE.

ACCESSIBLE CURB RAMPS

N.T.S.

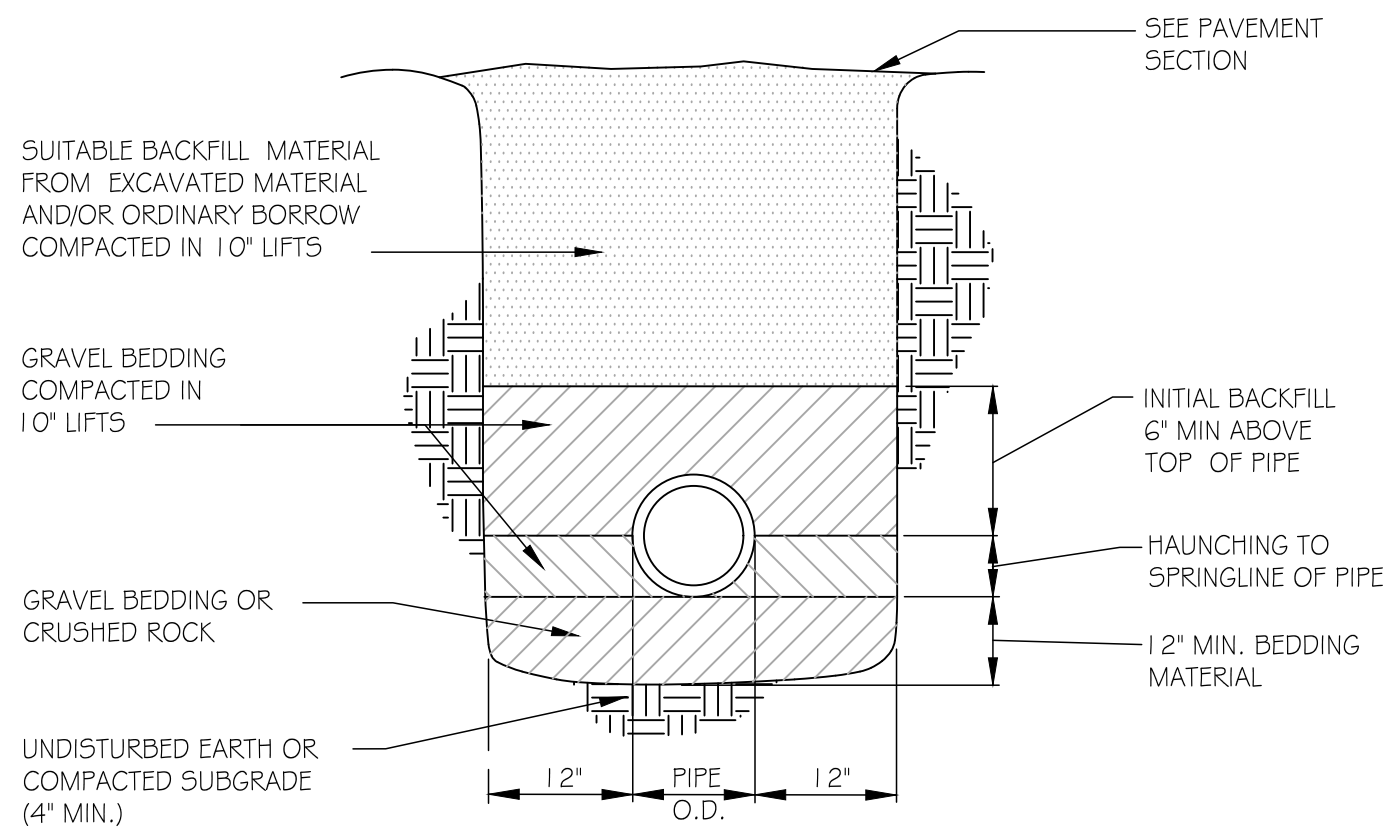


- NOTES:
1. SEE SITE PLAN FOR WIDTH AND GRADES.
 2. PROVIDE MINIMUM $\frac{1}{8}$ INFT. CROSS-SLOPE.
 3. PROVIDE CONTROL JOINTS 5'-0" ON CENTER MINIMUM.
 4. PROVIDE EXPANSION JOINTS 20'-0" ON CENTER MINIMUM.



TYPICAL CONCRETE WALKWAY DETAILS

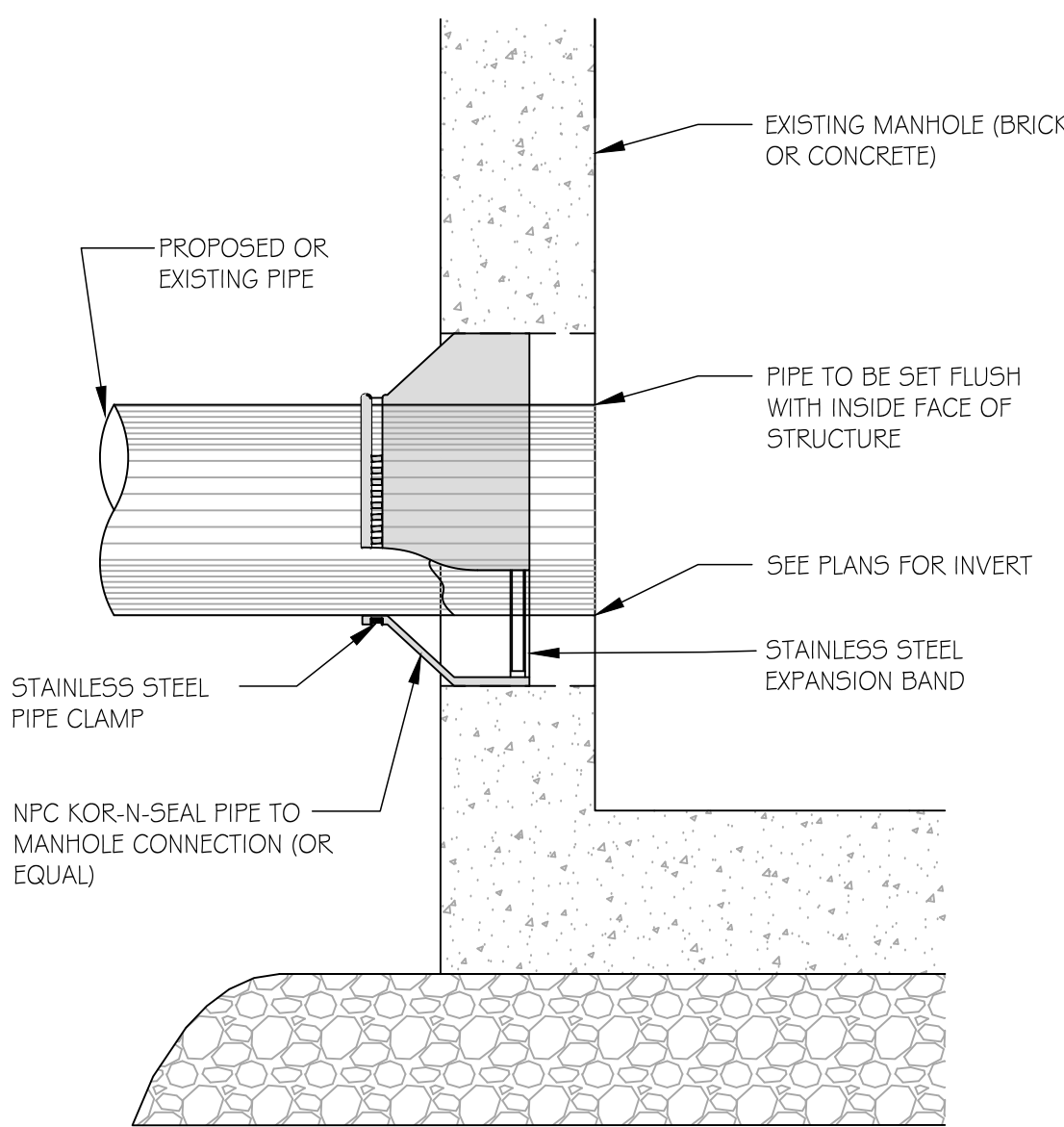
N.T.S.



- NOTE:
1. CONTRACTOR SHALL PROVIDE SHEETING, TRENCH BOX OR SLOPED WALLS IN ACCORDANCE WITH APPLICABLE SAFETY REGULATIONS.

HDPE TRENCH DETAIL FOR SOLID PIPE (UP TO 24" DIA)

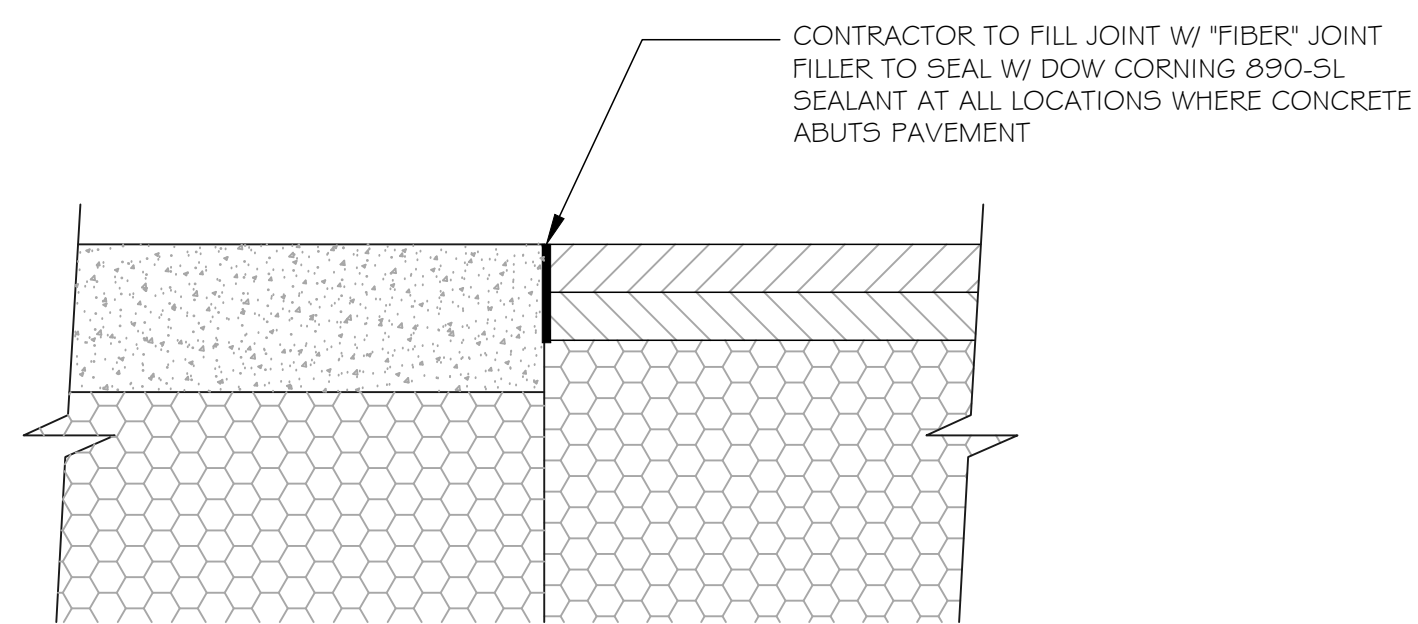
N.T.S.



- NOTES:
1. ALL METAL FIXTURES SHALL BE STAINLESS STEEL
 2. SERVICE LINE SHALL BE FLUSH WITH THE INSIDE OF THE MANHOLE.
 3. FOR PROPOSED MANHOLE INSTALLATION AT EXISTING PIPE, CONTRACTOR SHALL EXTEND PIPE INTO NEW MANHOLE USING A SPOOL PIECE OF SAME PIPE MATERIAL WITH FERNCO COUPLES..

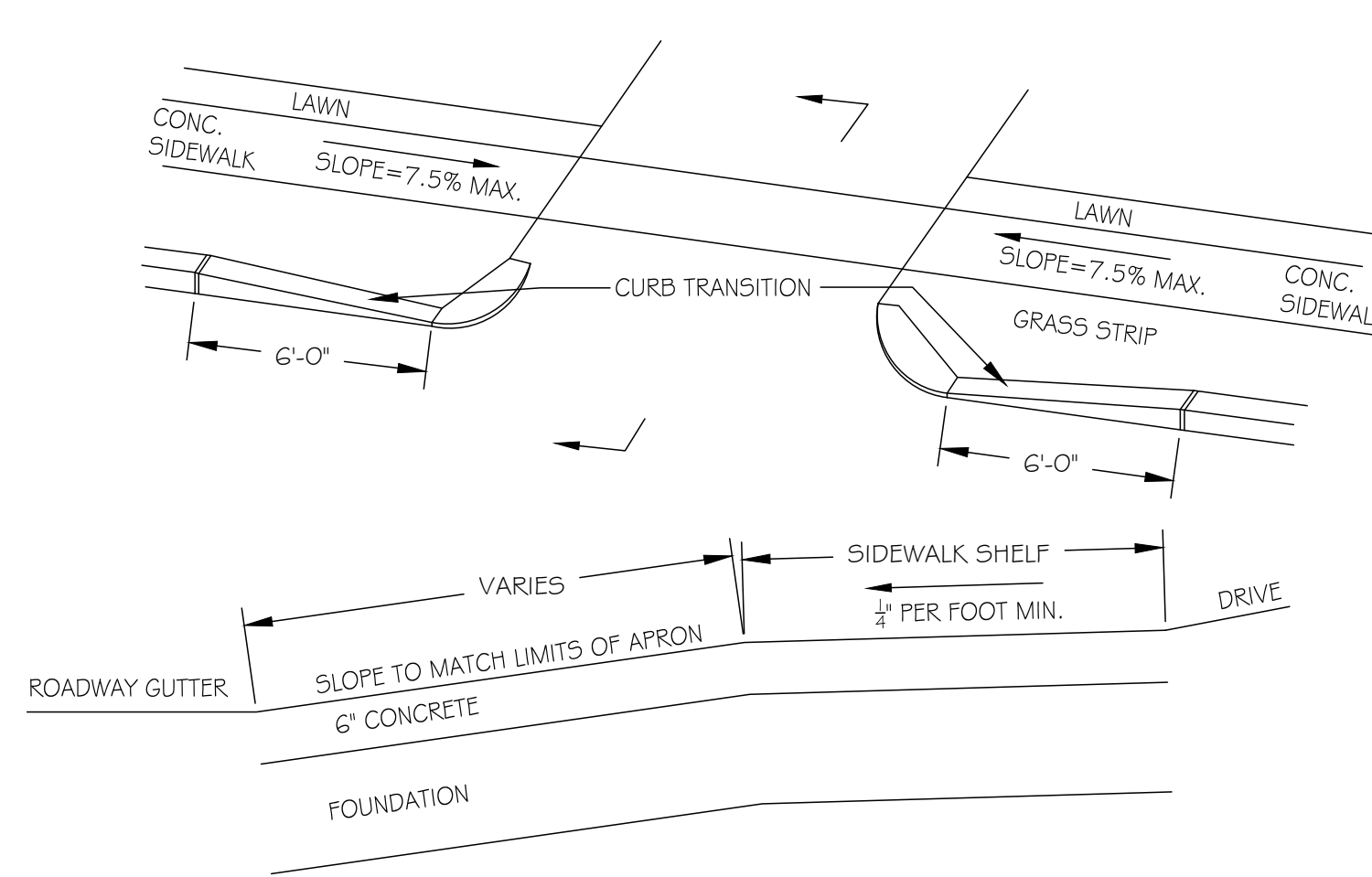
CONNECTION TO EXISTING MANHOLE

N.T.S.



CONCRETE TO PAVEMENT DETAIL

N.T.S.

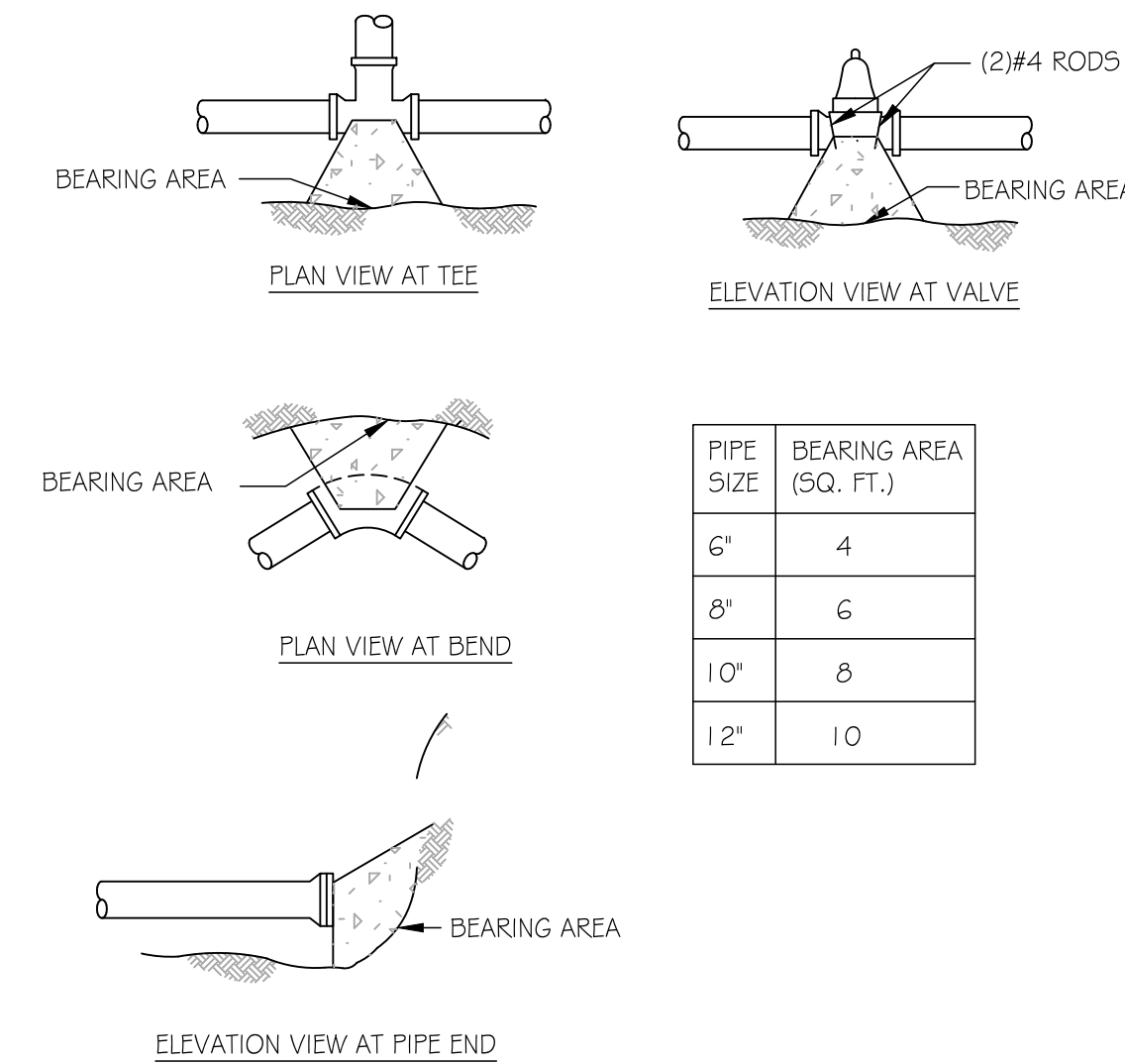


SECTION A-A

- NOTE:
1. RAMP CROSS SECTION TO MATCH ADJACENT WALK IN MATERIALS AND FOUNDATION, OR AS DIRECTED BY THE ENGINEER.
 2. MATCH GRADES AT BACK OF WALK ABUTTING DRIVEWAY, STRUCTURE, OR AS DIRECTED BY THE ENGINEER.
 3. ALL CONCRETE SHALL BE 4,000 P.S.I. MIN.
 4. CONSTRUCTION SHALL CONFORM TO MDH STD. SPEC. SECTION 701 UNLESS OTHERWISE NOTED.

6" CONCRETE DRIVEWAY APRON DETAIL

N.T.S.



- NOTES:
1. CONCRETE FOR THRUST BLOCKS SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS.
 2. CONCRETE TO BE PLACED AGAINST UNDISTURBED MATERIAL.

TYPICAL THRUST LOCK DETAILS

N.T.S.

FOR REGISTRY OF DEEDS USE ONLY

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PREPARER

FAIRHAVEN PLANNING BOARD
APPROVED UNDER SUBDIVISION CONTROL LAW

DATE OF APPROVAL _____
DATE OF SIGNING _____

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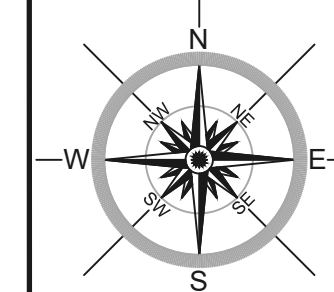


"DEFINITIVE SUBDIVISION PLAN"
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PREPARED FOR
ALEXANDER GRAY DEVELOPMENT, LLC
ACUSHNET, MA

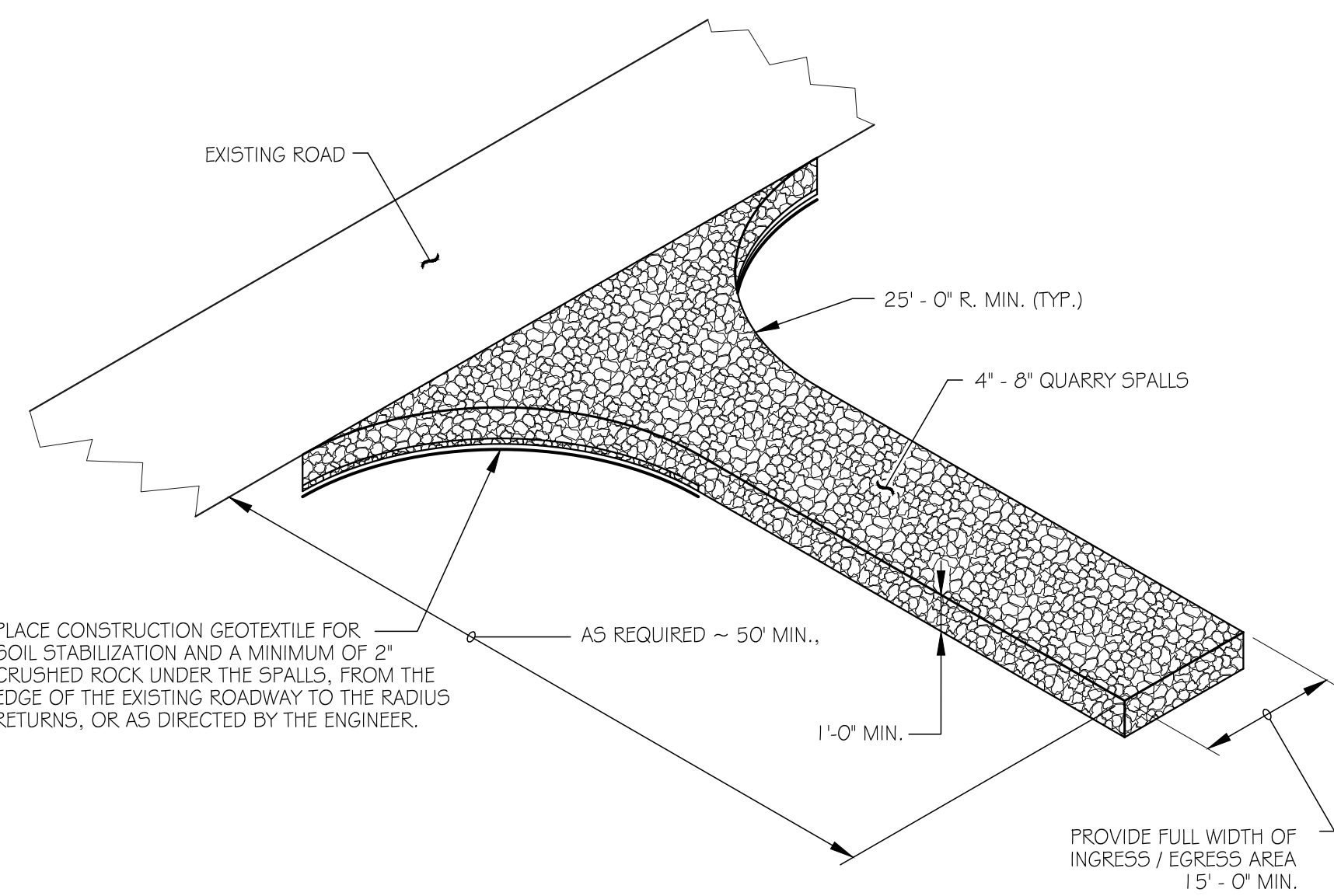
SHEET 14 OF 15 - CONSTRUCTION DETAILS

NESRA ENGINEERING, LLC

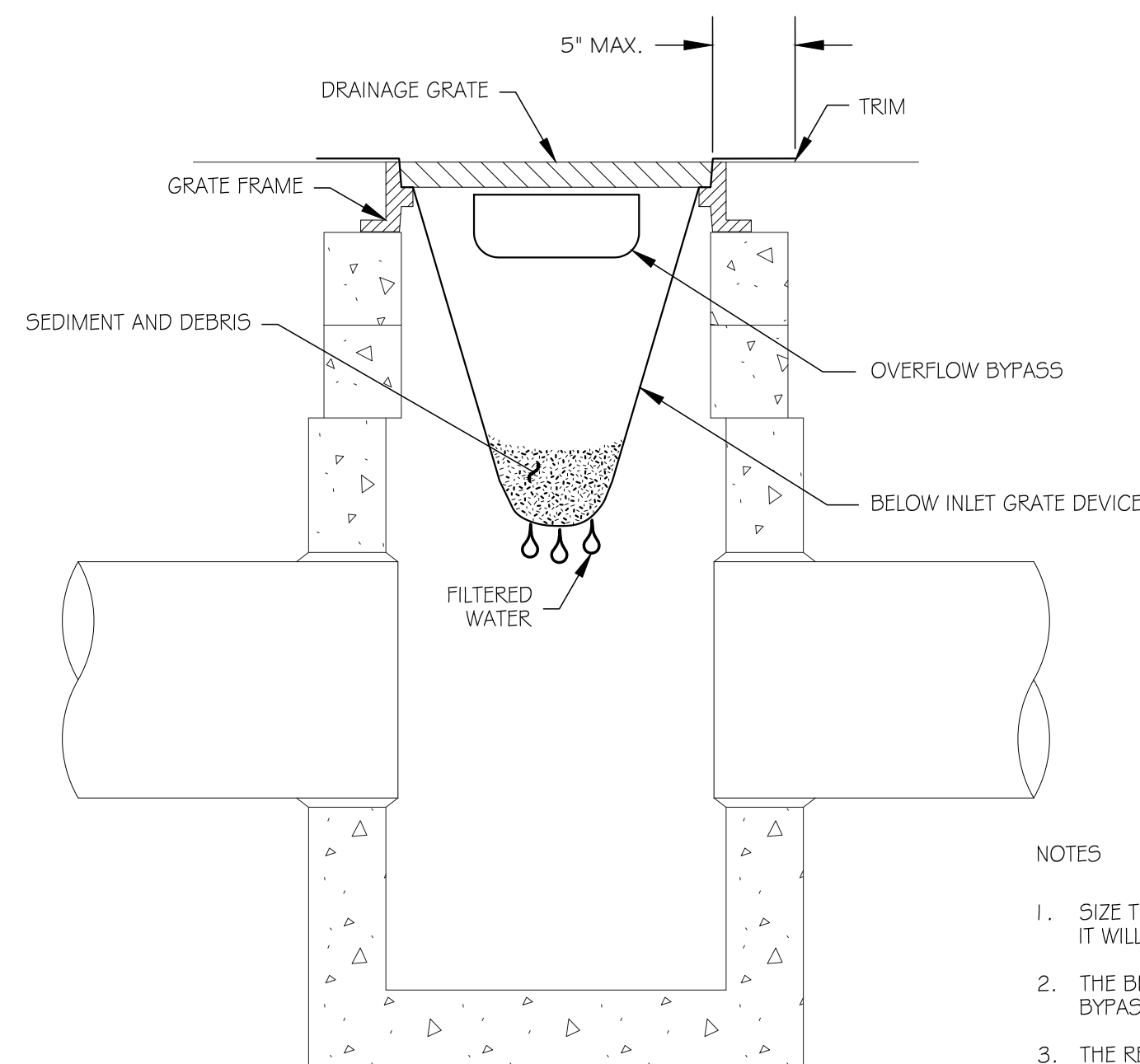


170 BUNGAY ROAD
N. ATTLEBORO, MA 02760
(617) 506-3772
WWW.NESRAENG.COM

SCALE: 1"=40' DATE: 4/10/19 PREP. BY: AH REV. BY: JJP

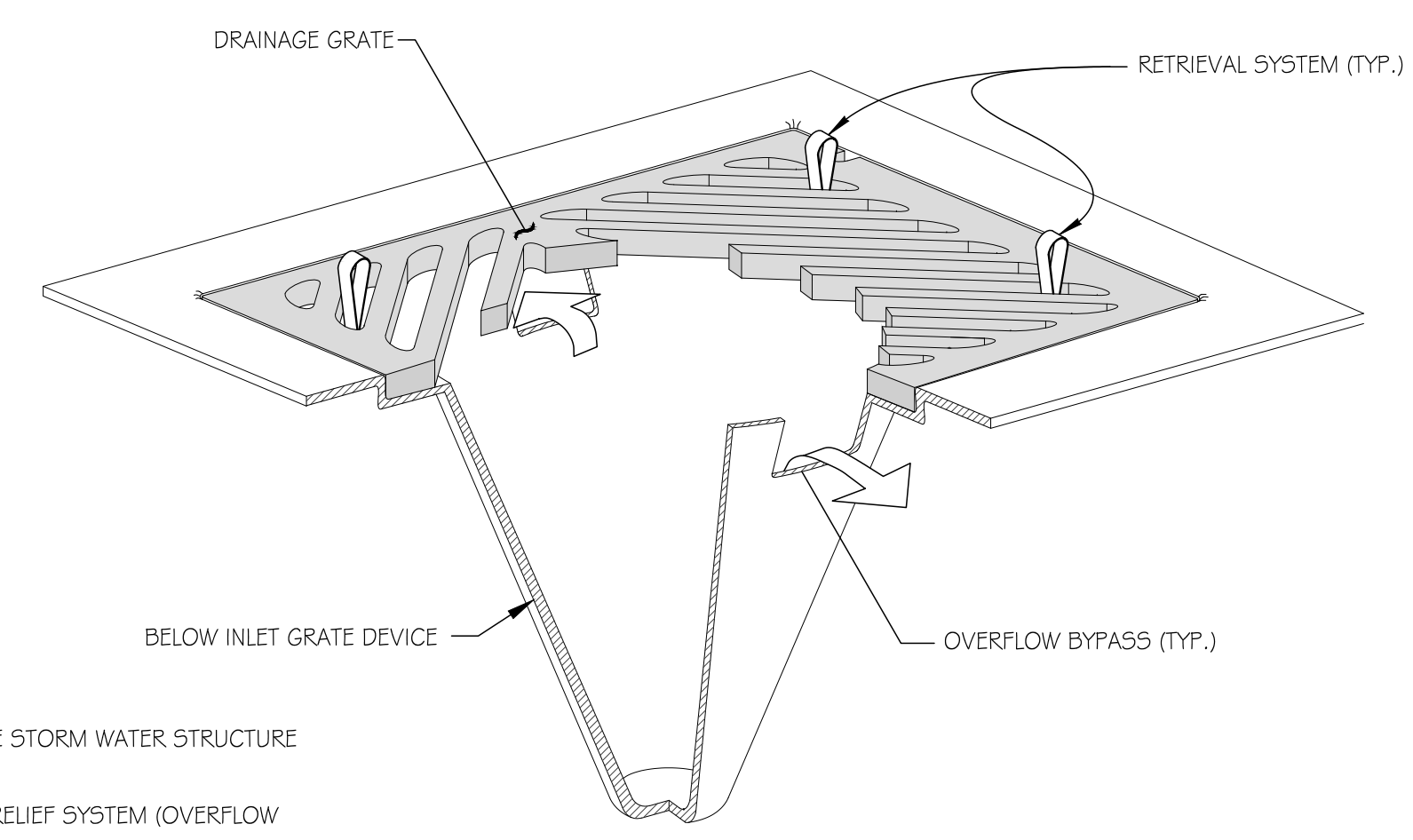


STABILIZED CONSTRUCTION ENTRANCE
N.T.S.



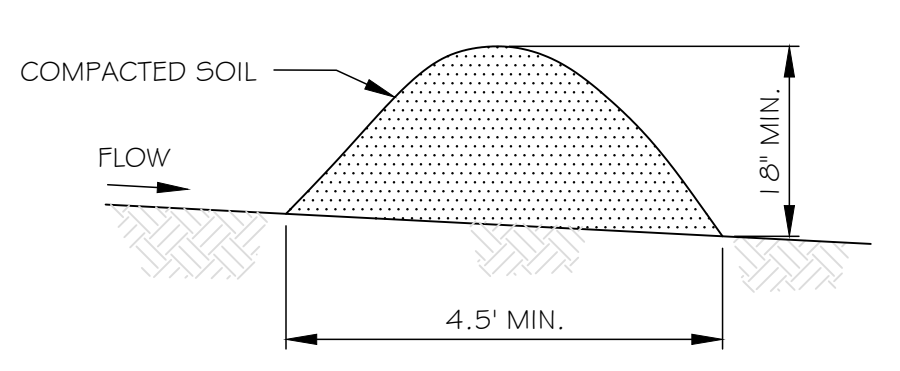
SECTION VIEW

- NOTES:
1. SIZE THE BELOW INLET GRATE DEVICE FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
 2. THE BIGD SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
 3. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BIGD WITHOUT SPILLING THE COLLECTED MATERIAL.
 4. PERFORM MAINTENANCE IN ACCORDANCE WITH STORMWATER POLLUTION PREVENTION PLAN, TO BE PREPARED BY THE CONTRACTOR.

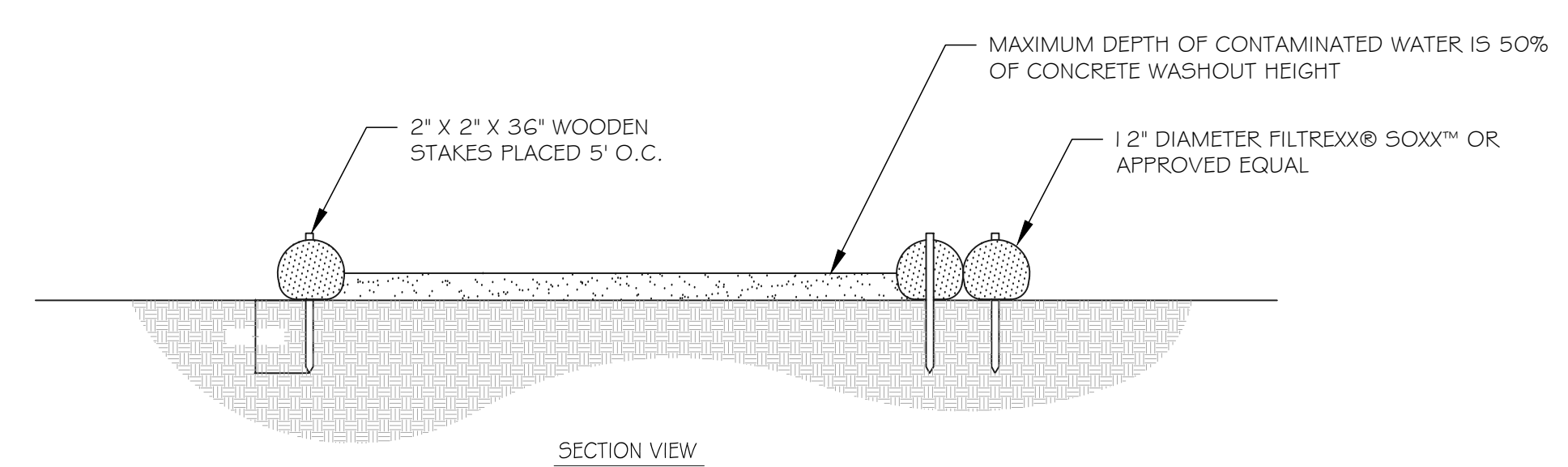


ISOMETRIC VIEW

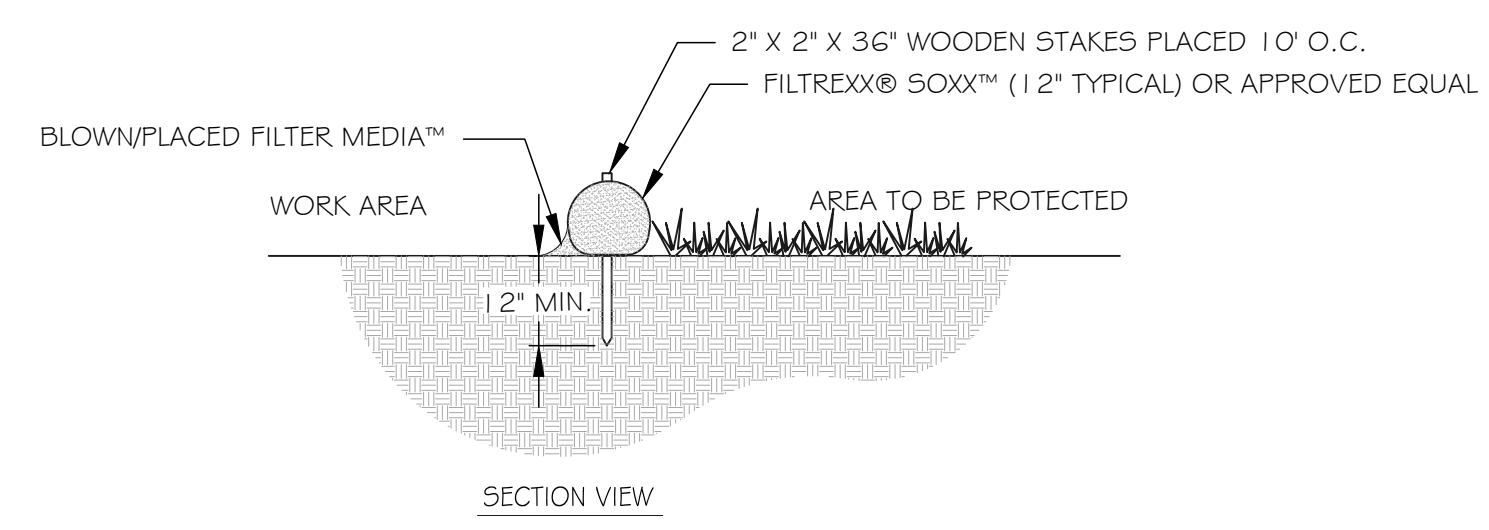
STORM DRAIN INLET PROTECTION
N.T.S.



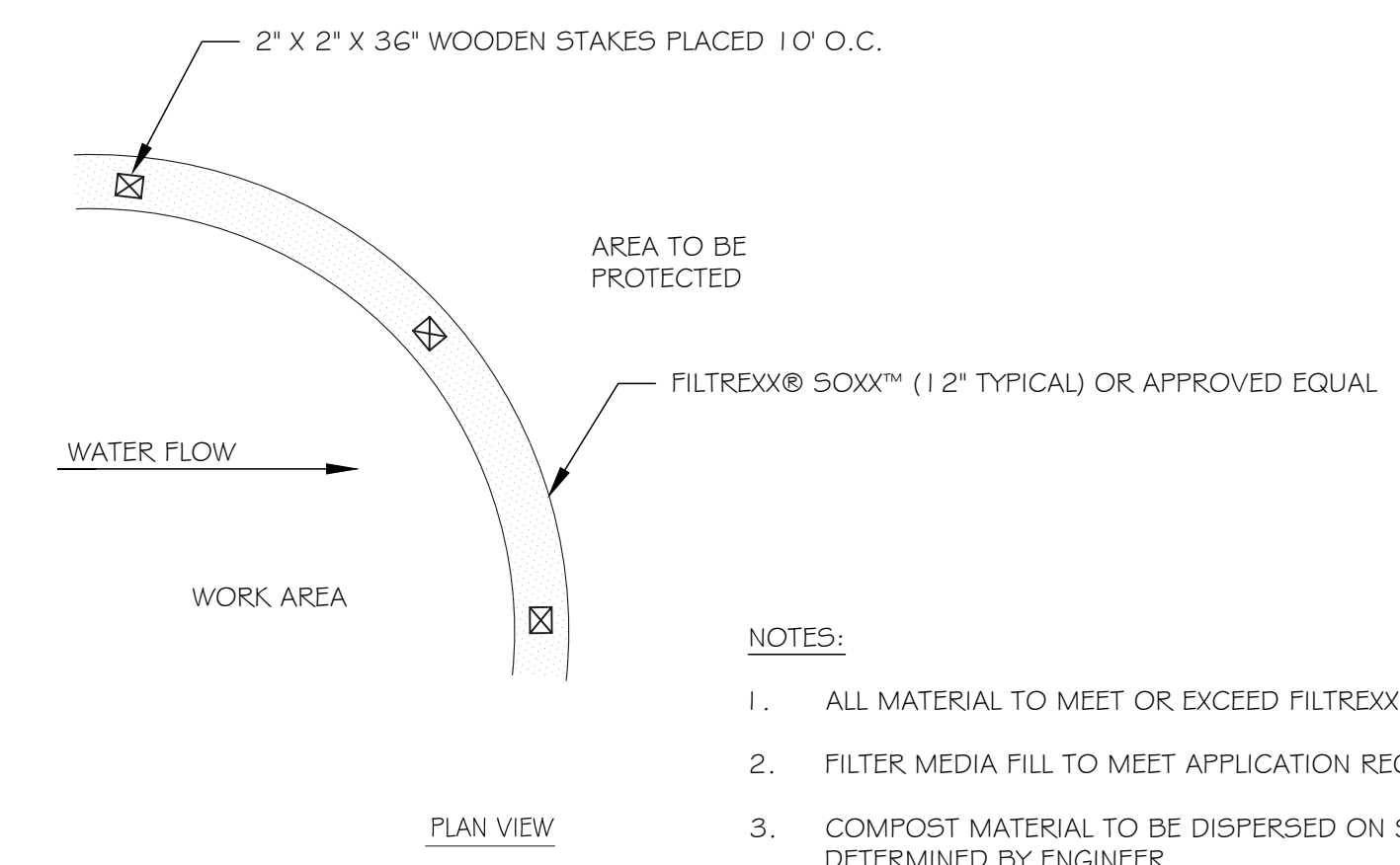
TEMPORARY DIVERSION DIKE
N.T.S.



SECTION VIEW



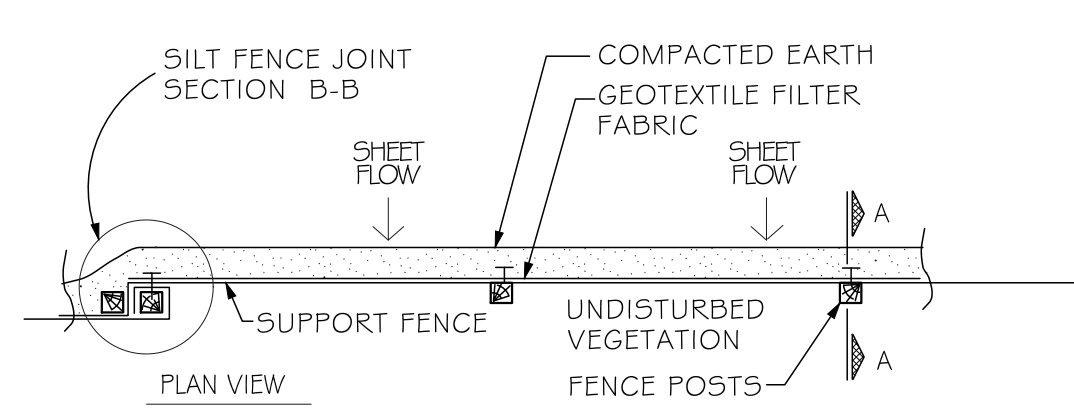
SECTION VIEW



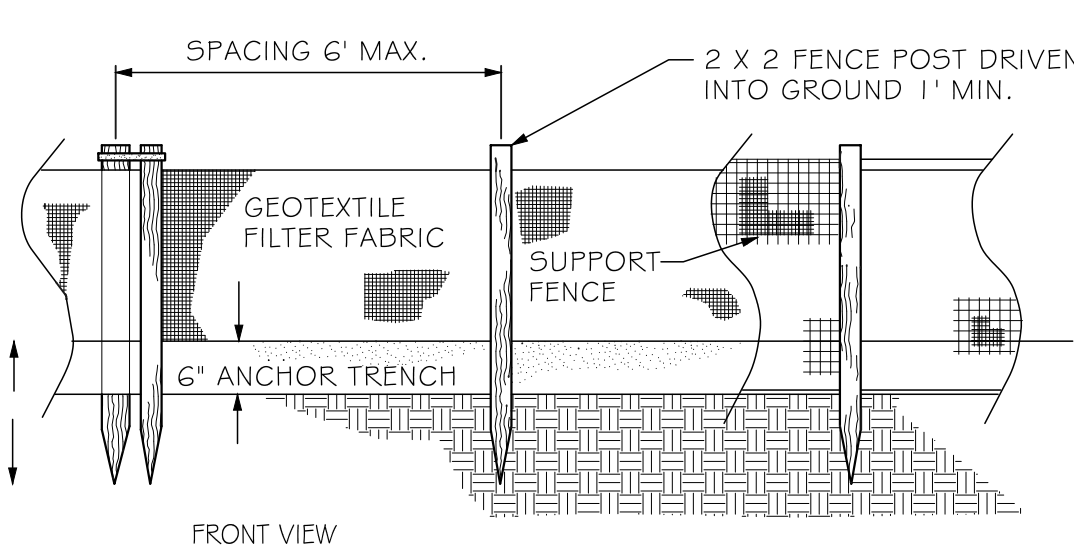
PLAN VIEW

- NOTES:
1. ALL MATERIAL TO MEET OR EXCEED FILTREXX® SPECIFICATIONS.
 2. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
 3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

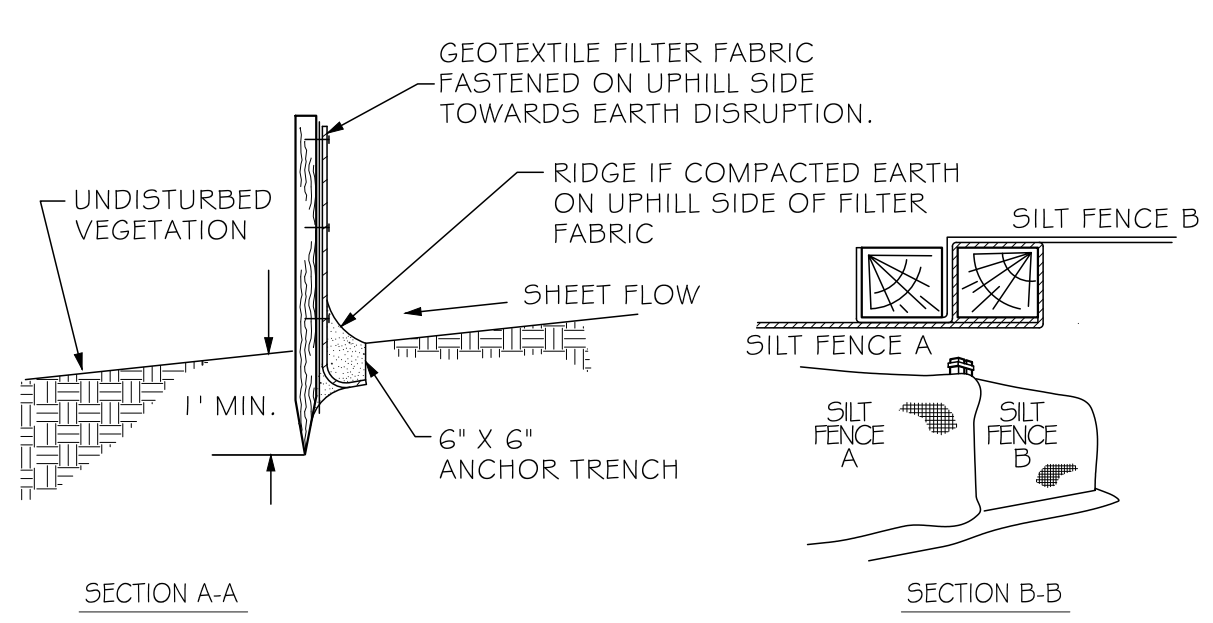
SEDIMENT CONTROL
N.T.S.



PLAN VIEW



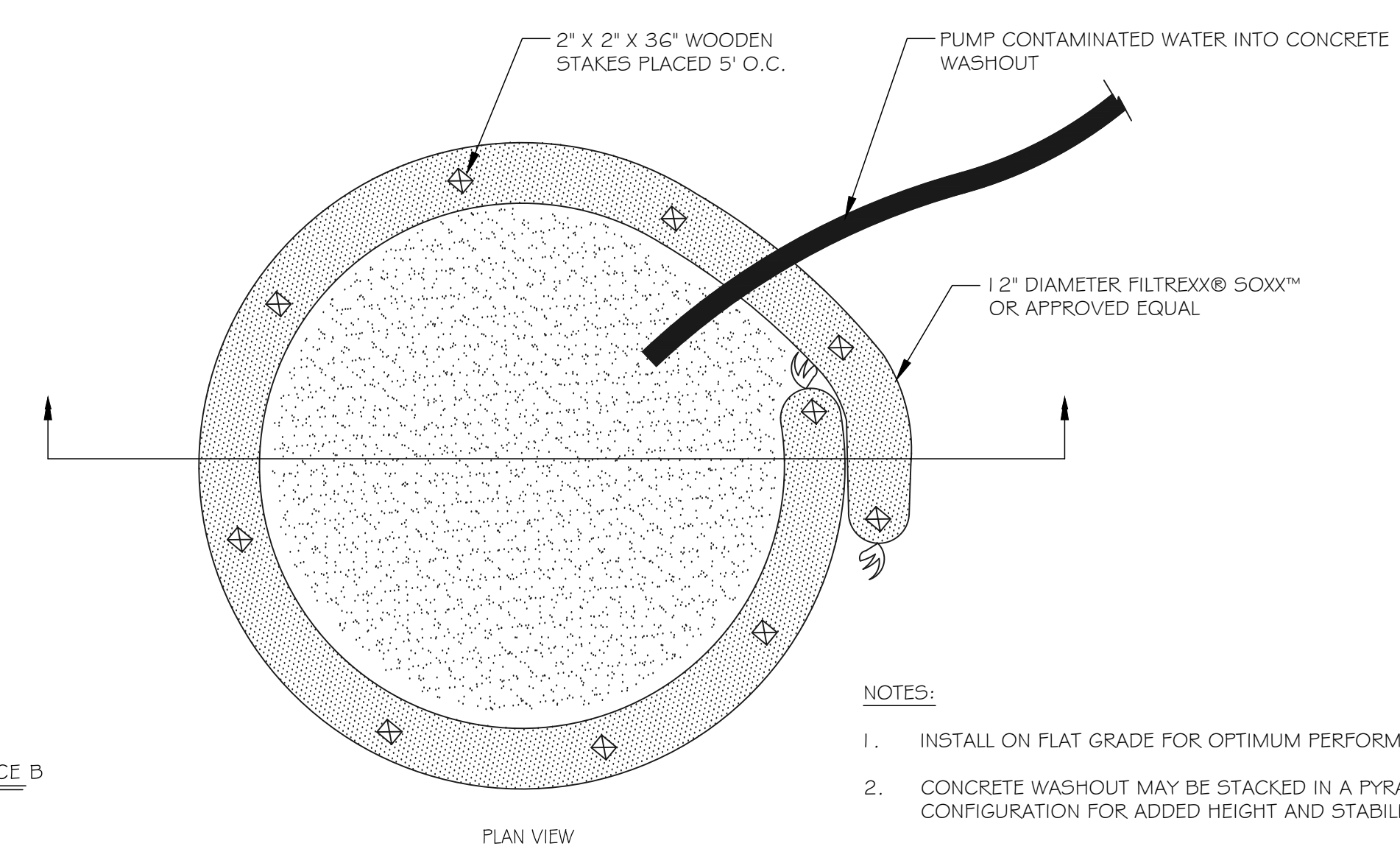
FRONT VIEW



SECTION A-A

SECTION B-B

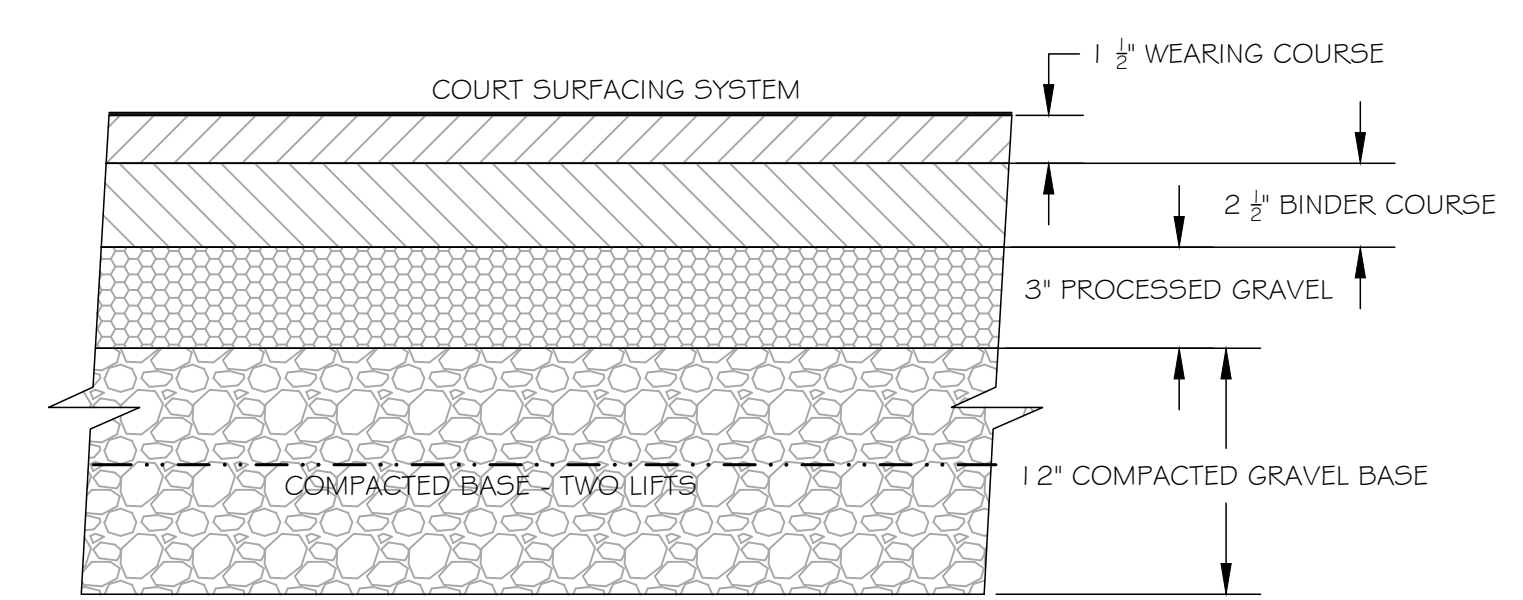
SILT FENCE



PLAN VIEW

- NOTES:
1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE
 2. CONCRETE WASHOUT MAY BE STACKED IN A PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT AND STABILITY
 3. CONCRETE WASHOUT MAY BE DIRECT SEEDED AT THE TIME OF INSTALLATION

CONCRETE WASHOUT STATION
N.T.S.



PAVEMENT DETAIL
N.T.S.

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I CERTIFY THAT THIS PLAN CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTERS OF DEED

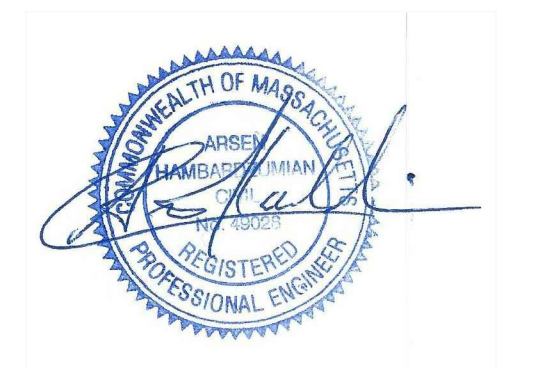
PREPARER

FAIRHAVEN PLANNING BOARD
APPROVED UNDER SUBDIVISION CONTROL LAW

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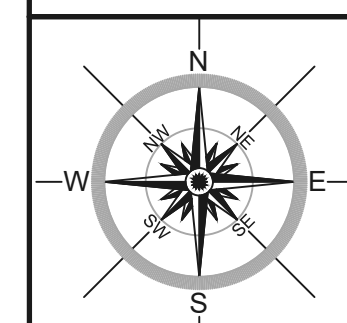


"DEFINITIVE SUBDIVISION PLAN"
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IN FAIRHAVEN, MA

PREPARED FOR
ALEXANDER GRAY DEVELOPMENT, LLC
ACUSHNET, MA

SHEET 13 OF 15 - CONSTRUCTION DETAILS

NESRA ENGINEERING, LLC



170 BUNGAY ROAD
N. ATTLEBORO, MA 02760
(617) 506-3772
WWW.NESRAENG.COM

SCALE: 1"=40' DATE: 4/10/19 PREP. BY: AH REV. BY: JJP

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PREPARER _____

MAP 28
LOT 24 F
DAVID DROWN BOULEVARD
N/F TOWN OF FAIRHAVEN
CONSERVATION
COMMISSION



INSET SCALE 1"=20'-0"

(PLANTING LAYOUT TO BE PROVIDED PER MITIGATION PLAN PREPARED BY KEN THOMPSON, WETLAND SCIENTIST.)

MAP 28
LOT 24 E
DAVID DROWN BOULEVARD
N/F HARBOR MIST
CONDOMINIUM TRUST

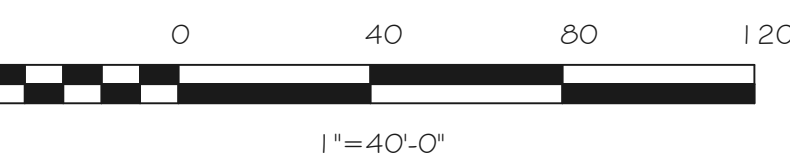
TREES AND SHRUBS PER RESTORATION PLAN. PLANTINGS CONSIST OF 59 RED MAPLE TREES, 43 BLACK TUPELO TREES, 20 AMERICAN ELM TREES, AND 17 YELLOW BIRCH TREES. IN ADDITION WE WILL BE PROVIDING 36 SILKY DOGWOOD, 40 SPECKLED ELDER, 28 ARROW-WOOD AND 32 BEBBS WILLOW. AREA WILL BE SEEDED WITH NEW ENGLAND WET MIX AT 1 LB PER 2,500 S.F. (TOTAL OF 7 LBS.) (SEE INSET)



TREE LINE TO BE PRESERVED



EXISTING STONE WELL TO BE PRESERVED



BUSINESS DISTRICT (B)

BUSINESS DISTRICT (B)

MAP 28
LOT 24 G
40 SCONTICUT NECK ROAD
N/F RYAN STUART J. JR.

TREE LINE WITH MATURE MAPLE TREES (15' BHD) DECIDUOUS TREES TO BE PRESERVED

TREE LINE TO BE PRESERVED

MAP 28
LOT 24 D
38 SCONTICUT NECK ROAD
N/F RICARDUS FAIRHAVEN LLC

EXISTING ARBORVITAE AND DECIDUOUS TREES TO REMAIN AND BE PROTECTED.

TREES AND SHRUBS TO BE SINGLE RESIDENCE TRANSPLANTED ON SITE. DISTRICT (RA)

2' CALIPER BHD SYCAMORE MAPLE OR APPROVED EQUAL. (31)

N/F
LOT 24 A
54 SCONTICUT NECK ROAD
N/F AVILA JULES M. JR. & LORETTA

TREE LINE TO BE PRESERVED

CENTER ISLAND (SEE INSET)

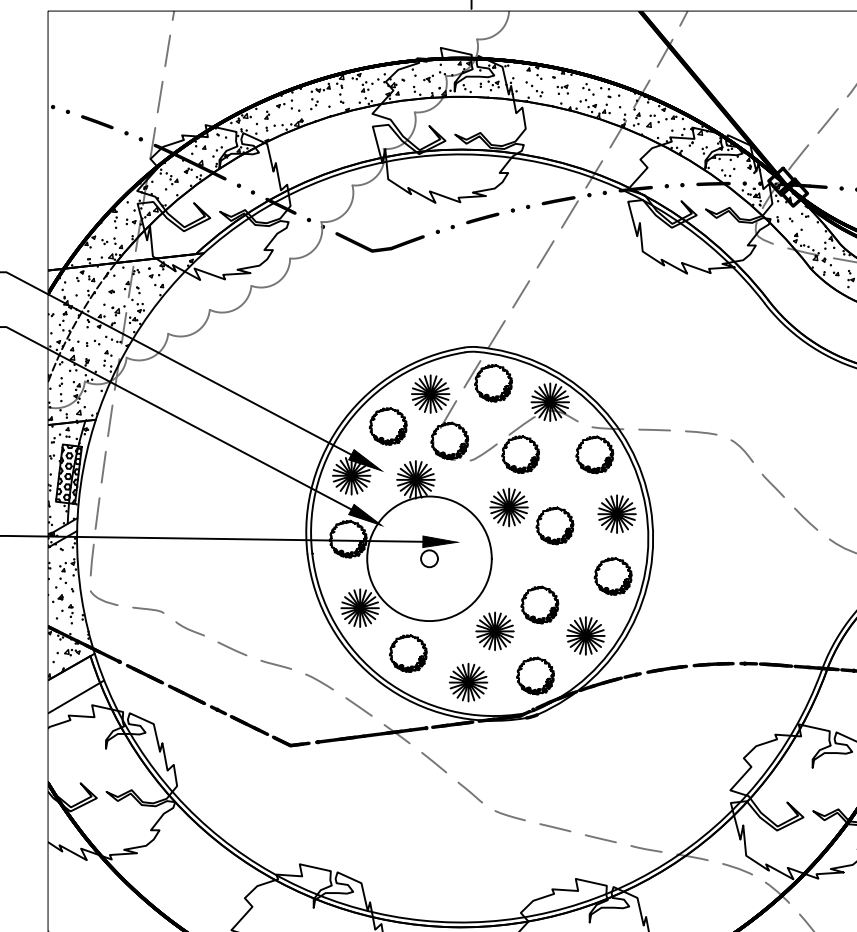
MAP 28
LOT 24 B
60 SCONTICUT NECK ROAD
N/F TOWN OF FAIRHAVEN

SINGLE RESIDENCE DISTRICT (RA)

FOUNTAIN GRASS

HIDCOTE LAVENDER

HIMALAYAN BIRCH



INSET SCALE 1"=20'-0"



22.126 ± ACRES OF LAND TO BE DONATED TO THE CONSERVATION COMMISSION. PARCEL CONTAINS MATURE TREES, WOODLANDS, WETLANDS, GIRLS CREEK, AND MARSH.

NHESP BOUNDARY 300.± SOUTH WEST OF THIS LOCATION.

WETLAND RESOURCE PROTECTION DISTRICT (WRP) 300± SOUTH WEST OF THIS LOCATION



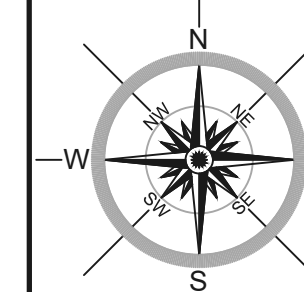
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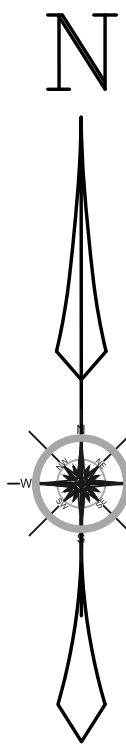
SHEET 12 OF 15 - PLANTING PLAN

NESRA ENGINEERING, LLC

170 BUNGAY ROAD
N. ATTLEBORO, MA 02760
(617) 506-3772
WWW.NESRAENG.COM



SCALE: 1"=40' DATE: 4/10/19 PREP. BY: AH REV. BY: JJP



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FAIRHAVEN PLANNING BOARD
APPROVED UNDER SUBDIVISION CONTROL LAW

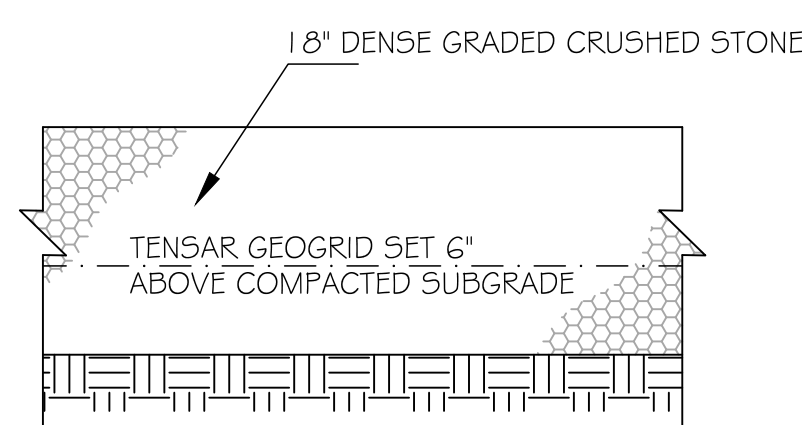
DATE OF APPROVAL _____

DATE OF SIGNING _____

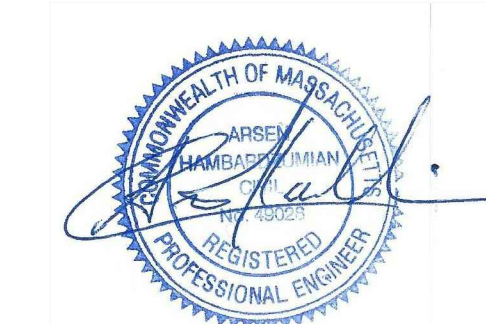
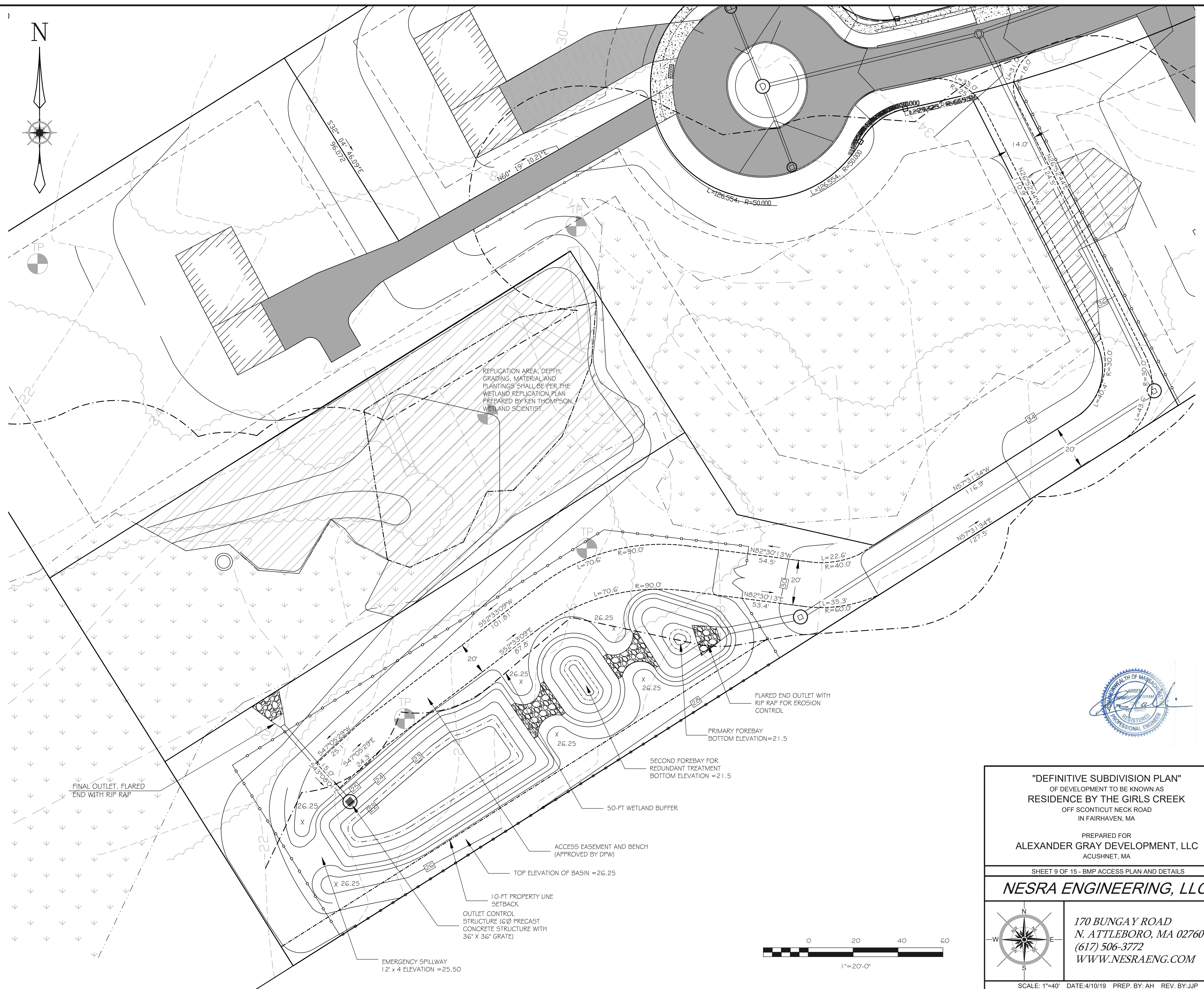
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I CERTIFY THAT THIS PLAN CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTERS OF DEED

PREPARER _____



GRAVEL ACCESS ROAD DETAIL

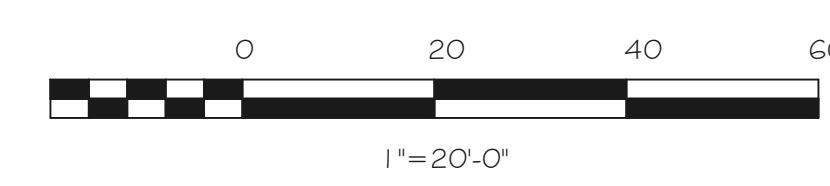


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PREPARED FOR
ALEXANDER GRAY DEVELOPMENT, LLC
ACUSHNET, MA

SHEET 9 OF 15 - BMP ACCESS PLAN AND DETAILS
NESRA ENGINEERING, LLC

170 BUNGAY ROAD
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SCALE: 1"=40' DATE:4/10/19 PREP. BY: AH REV. BY: JJP