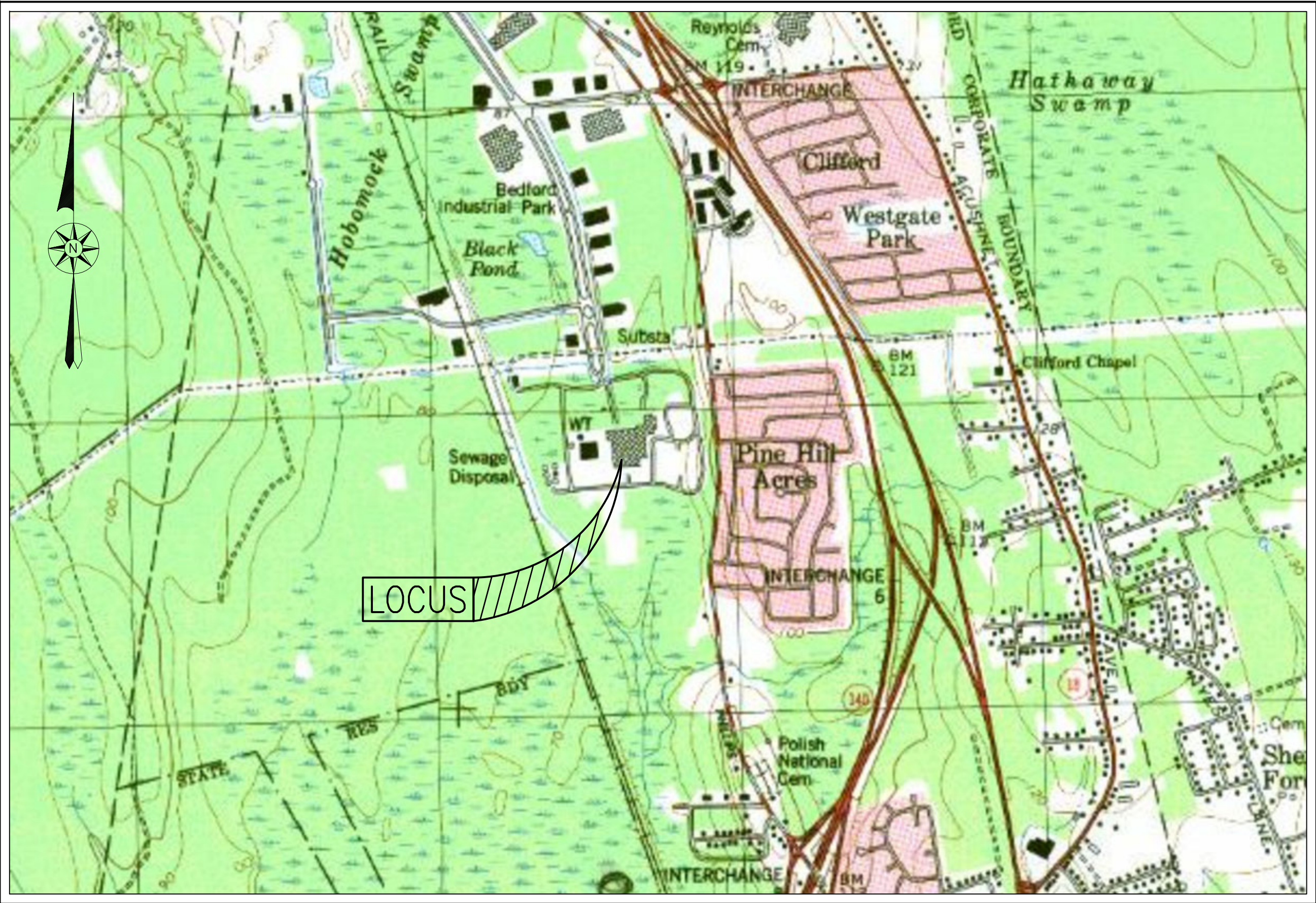
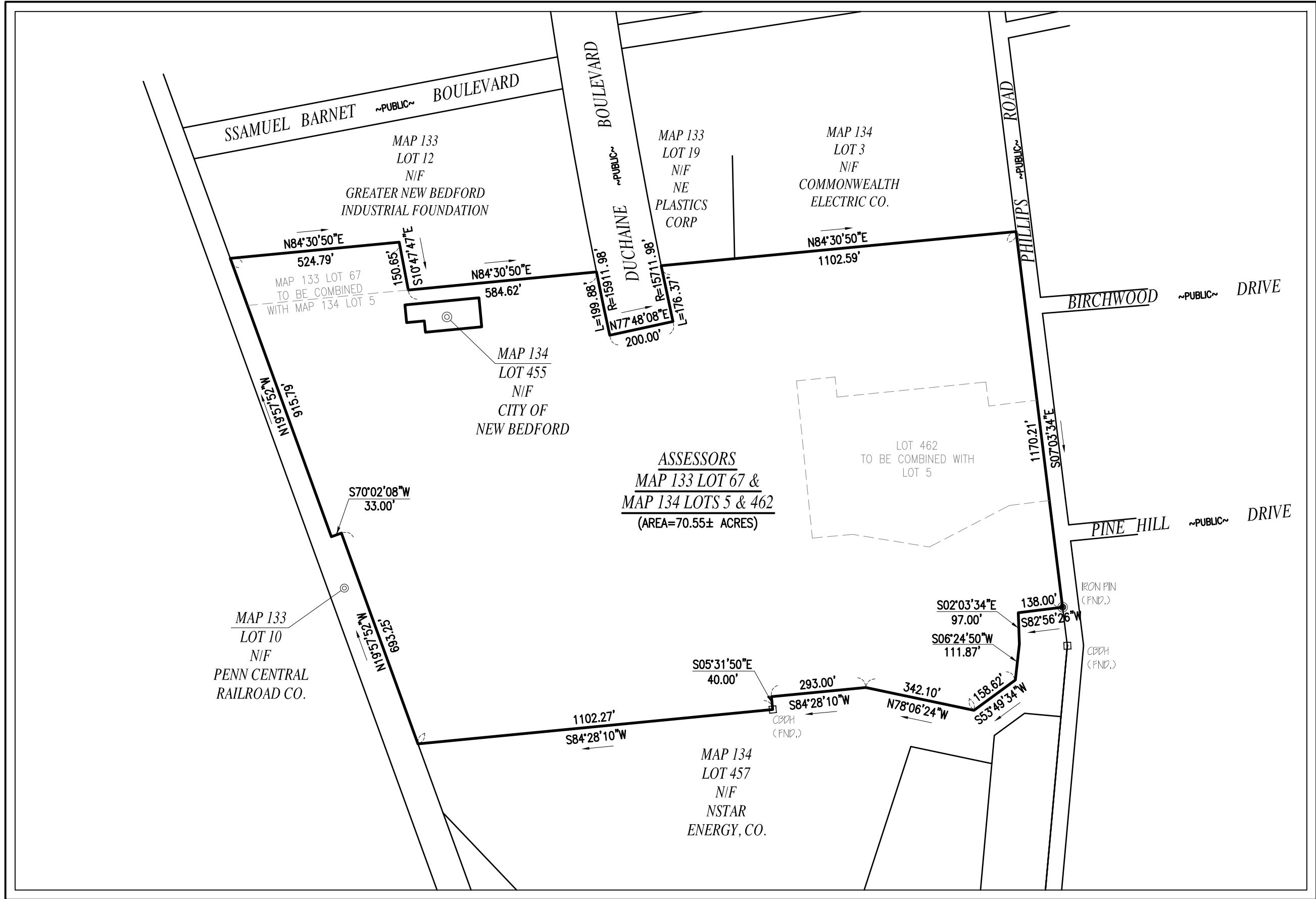


SITE PLAN
100 DUCHAINE BOULEVARD
ASSESSORS MAP 133 LOT 67 AND MAP 134 LOTS 5 & 462
NEW BEDFORD, MASSACHUSETTS



OVERALL SITE MAP
SCALE: 1"=300'

AREA MAP
SCALE: 1"=1,000'±

Table with 4 columns: DESCRIPTION, REQUIRED, EXISTING, PROVIDED. Rows include LOT AREA, LOT FRONTAGE, FRONT SETBACK, SIDE SETBACK, REAR SETBACK, BUILDING HEIGHT (MAXIMUM), BUILDING COVERAGE (MAXIMUM), and LOT COVERAGE (MAXIMUM).

Table with 2 columns: SHEET, DESCRIPTION. Rows include COVER, EXISTING CONDITIONS, EROSION CONTROL & DEMOLITION, LAYOUT, TRAFFIC CIRCULATION, UTILITIES, GRADING & DRAINAGE, LIGHTING & LANDSCAPING, COLOR PRESENTATION, NOTES & LEGEND, and DETAILS.

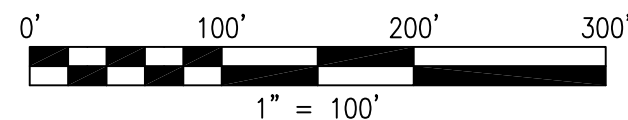
Table with 3 columns: REQUIREMENT, REQUIRED, PROVIDED. Rows include 1 SPACE PER 1,500 S.F. OF G.F.A. UP TO 15,000 S.F., 47 STANDARD SPACES PLUS FLEET VEHICLES, 199 TOTAL SPACES, 1 TOTAL SPACES (1 VAN), 2 TOTAL SPACES (2 VAN), 13 LOADING SPACES, and 18 LOADING SPACES.

REVISIONS table, Farland Corp. logo, contact information (www.FarlandCorp.com, 401 COUNTY STREET, NEW BEDFORD, MA 02740), and site plan title block.

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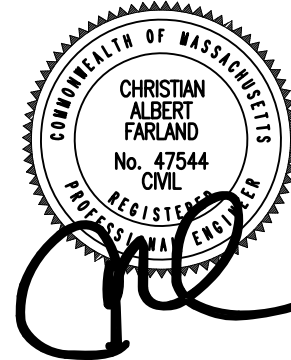


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2	10/15/19	PHASE I AND II
3	1/10/20	CONSERVATION COMMENTS
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5	11/3/20	PLANNING COMMENTS



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DESIGNED BY: CAF

CHECKED BY: CAF

#### SITE PLAN

100 DUCHAINE BOULEVARD  
ASSESSORS MAP 133 LOT 67  
ASSESSORS MAP 134 LOTS 5 & 462  
NEW BEDFORD, MASSACHUSETTS

PREPARED FOR:  
PARALLEL PRODUCTS OF NEW ENGLAND  
401 INDUSTRY ROAD  
LOUISVILLE, KY 40208

JULY 3, 2019

SCALE: 1"=100'

JOB NO. 15-500.2

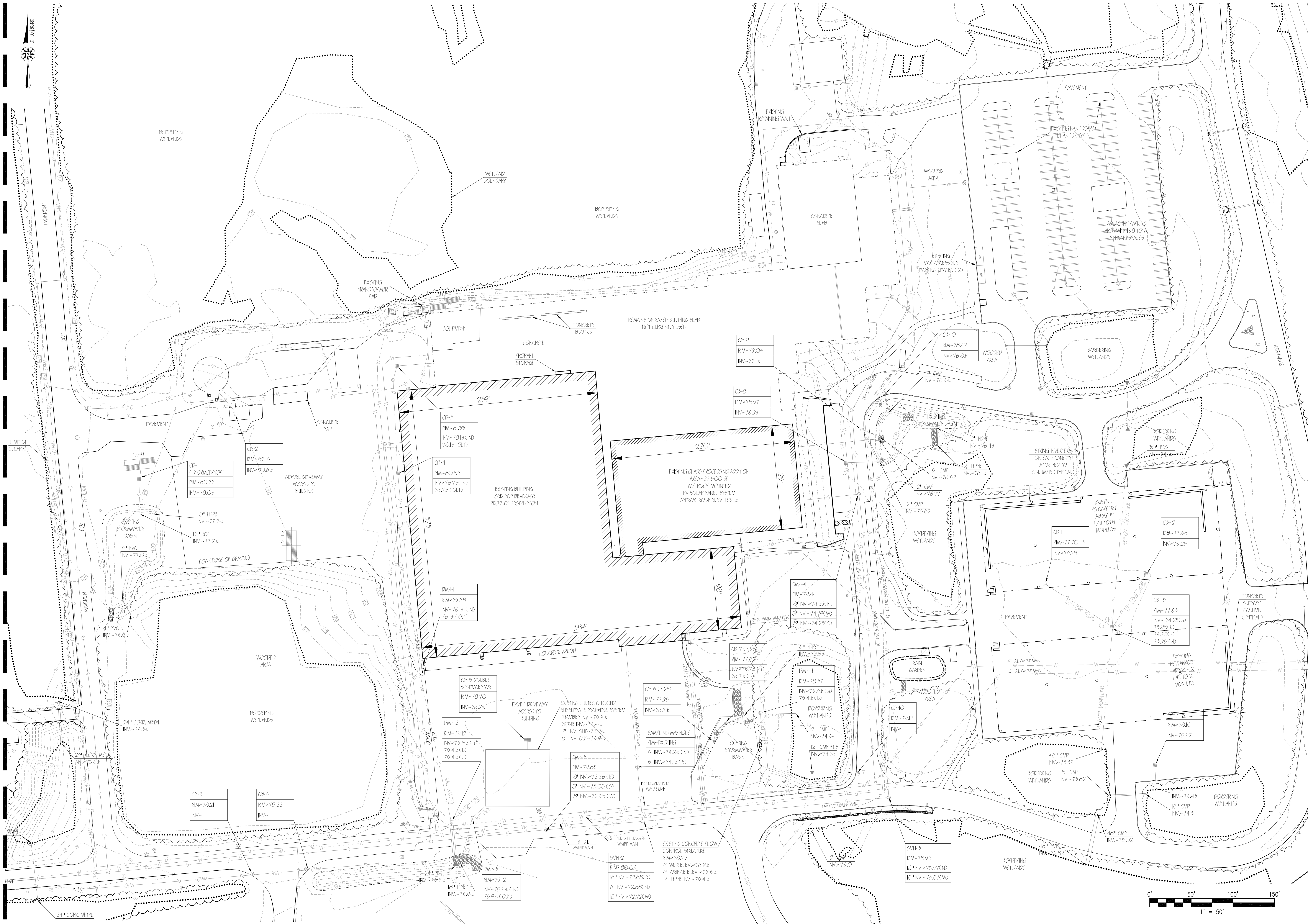
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EXISTING CONDITIONS  
OVERALL SITE  
SHEET 2 OF 26



MATCH LINE

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NEW BEDFORD, MASSACHUSETTS

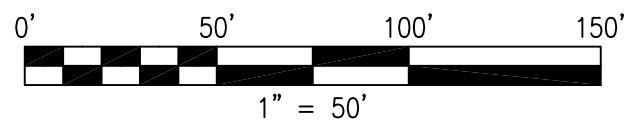
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EXISTING CONDITIONS  
CONT.

SHEET 4 OF 26

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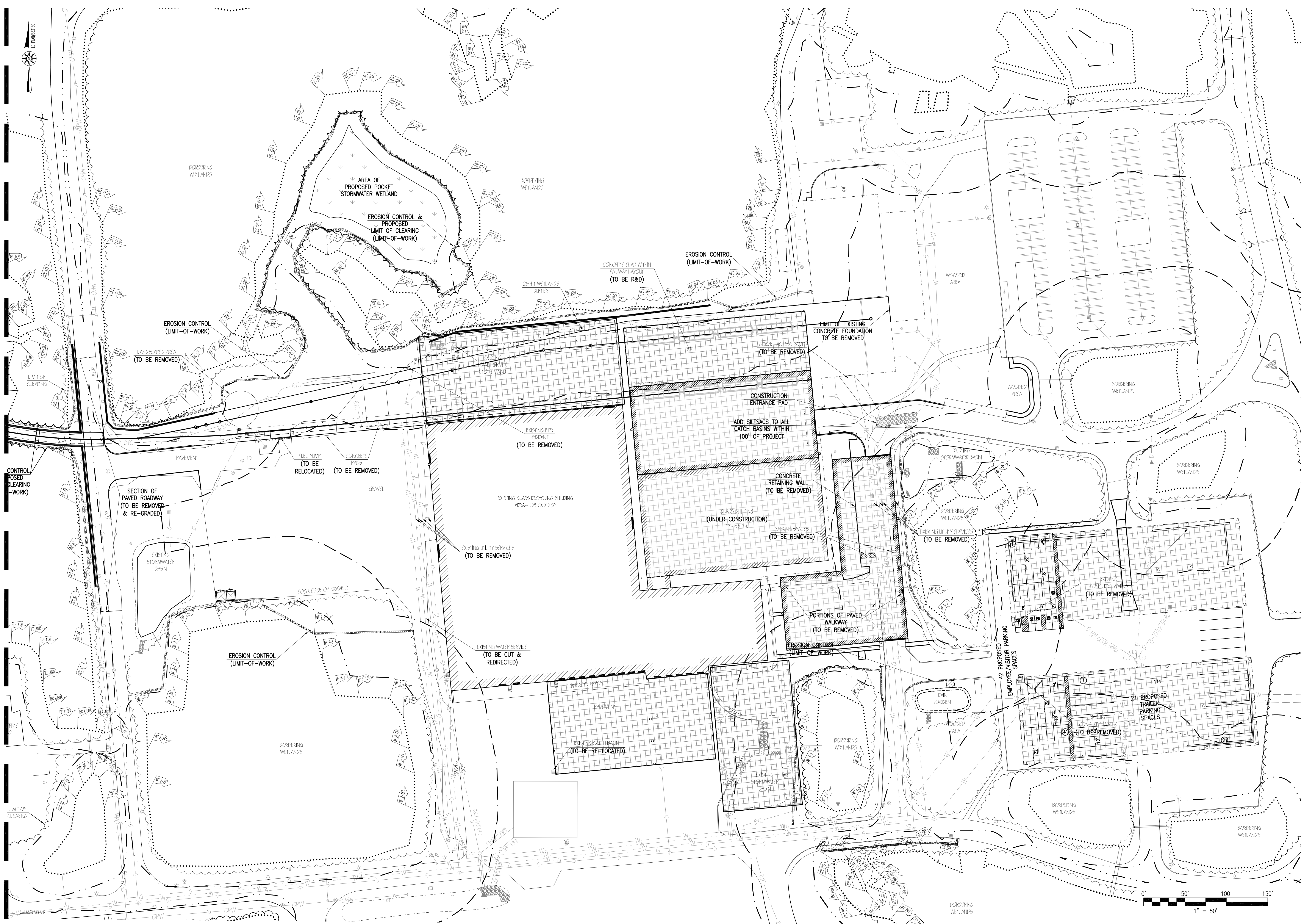
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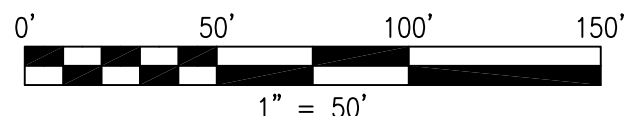
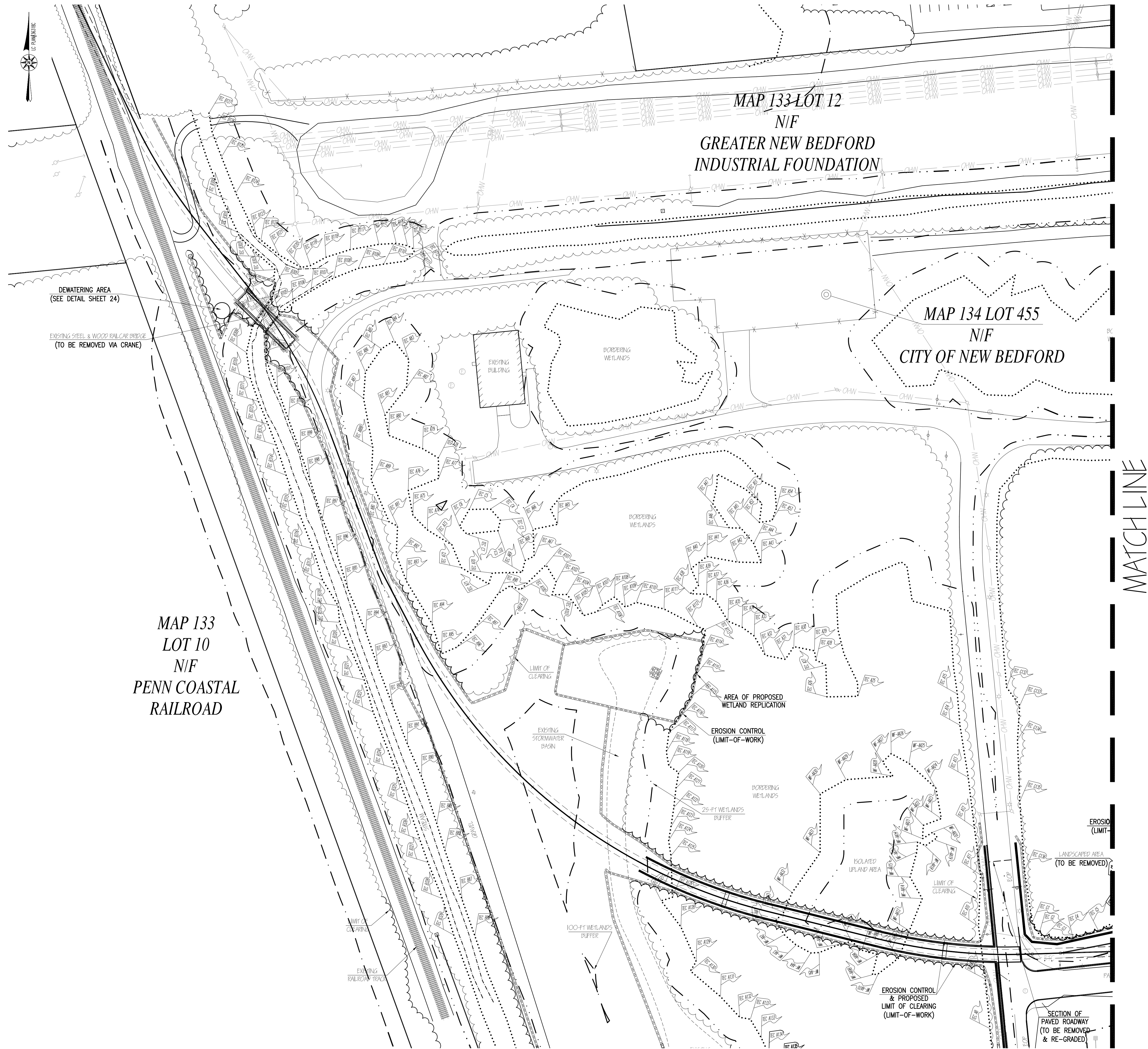
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EROSION CONTROL & DEMOLITION  
SHEET 5 OF 26



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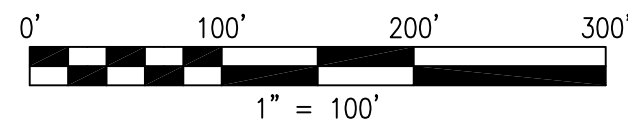
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EROSION CONTROL & DEMO CONT.  
SHEET 6 OF 26



TOTAL LOT COVERAGE

	IMPERVIOUS AREA	GREEN SPACE
PRE-DEVELOPMENT	702,979± 5F.	2,370,179± 5F.
LOT COVERAGE	22.9± %	77.1± %
ALTERATIONS (NEW)	107,715± S.F.	17,715± S.F.
POST-DEVELOPMENT	792,942± S.F.	2,280,216± S.F.
LOT COVERAGE	25.8± %	74.2± %

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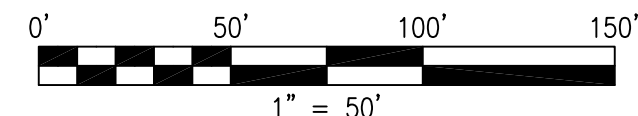
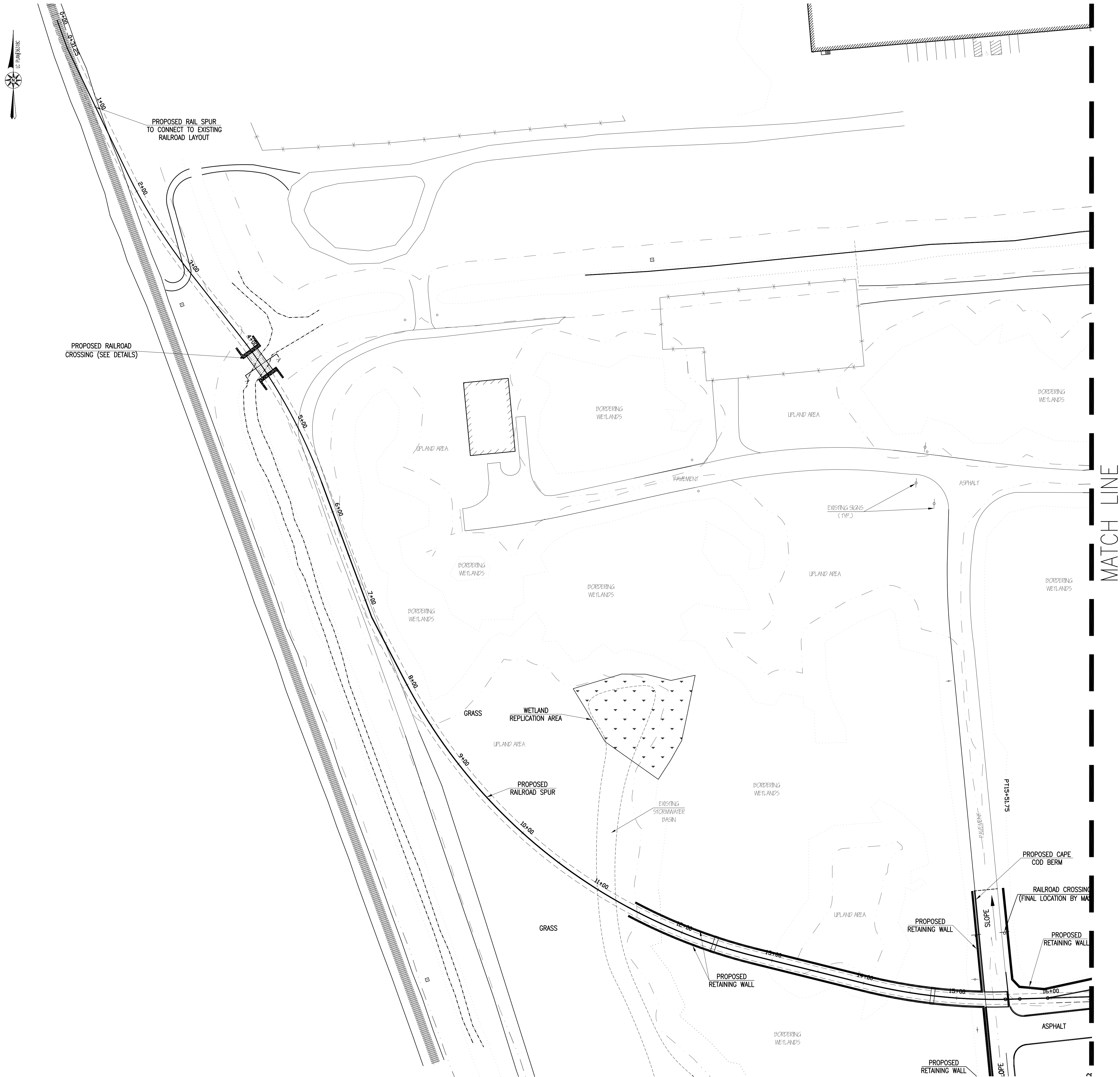
LAYOUT  
OVERALL SITE  
SHEET 7 OF 26







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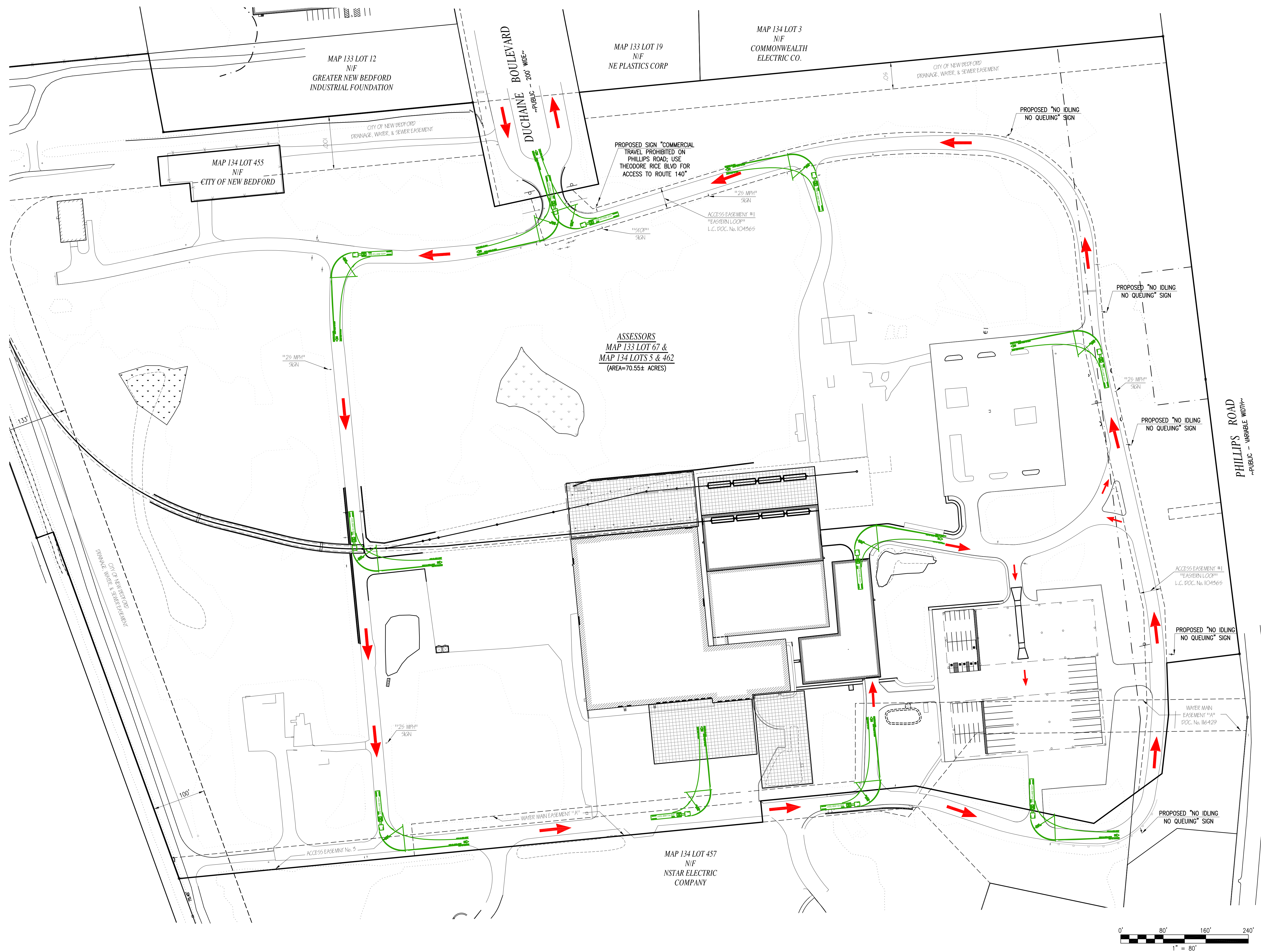
SITE PLAN

100 DUCHAINE BOULEVARD  
ASSESSORS MAP 133 LOT 67  
ASSESSORS MAP 134 LOTS 5 & 462  
NEW BEDFORD, MASSACHUSETTS

PREPARED FOR:  
PARALLEL PRODUCTS OF NEW ENGLAND  
401 INDUSTRY ROAD  
LOUISVILLE, KY 40208

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LAYOUT CONT.  
SHEET 9 OF 26





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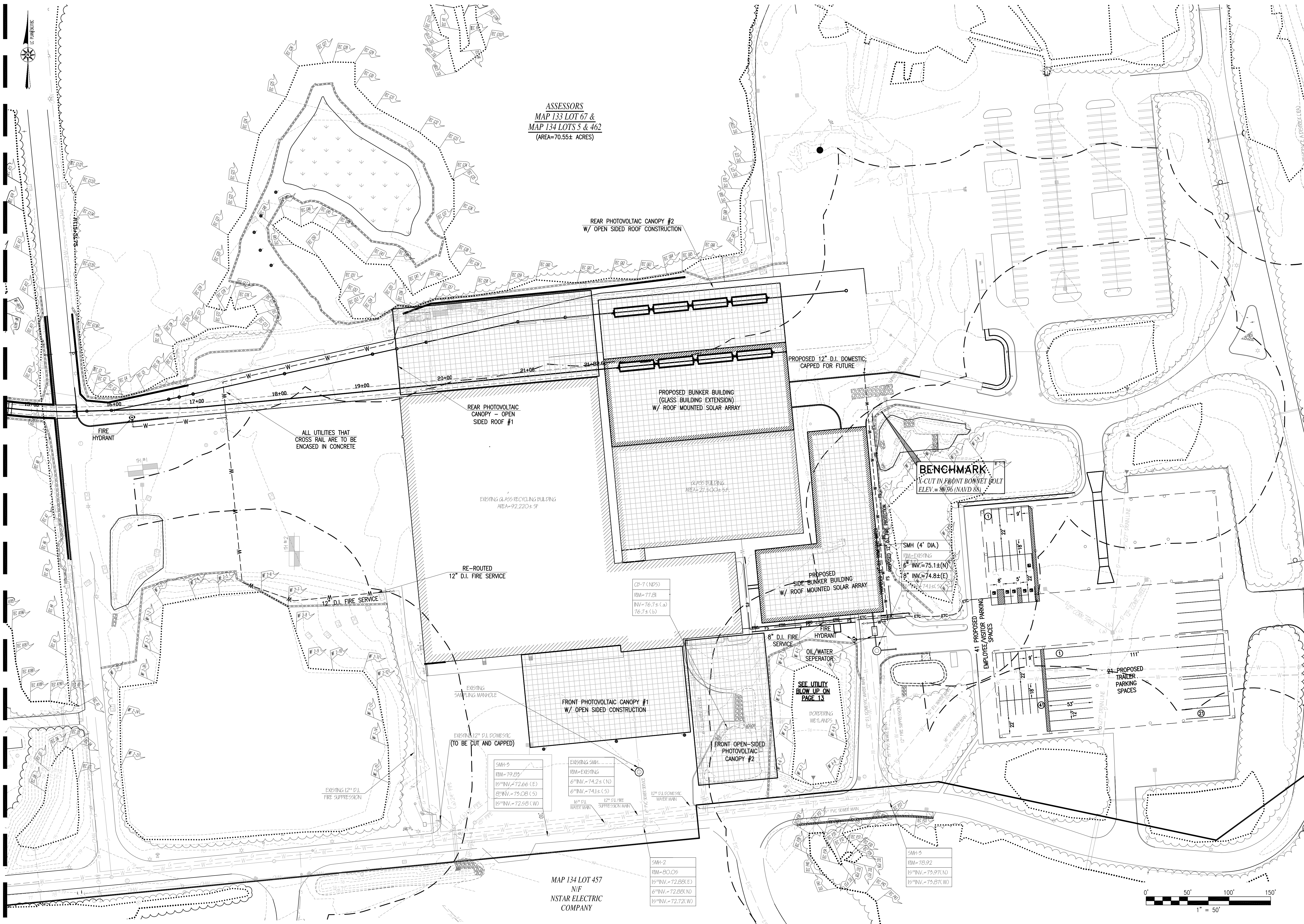
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## TRAFFIC CIRCULATION



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MATCH LINE



ASSESSORS  
MAP 133 LOT 67 &  
MAP 134 LOTS 5 & 462  
(AREA=70.55± ACRES)

REAR PHOTOVOLTAIC CANOPY #2  
W/ OPEN SIDED ROOF CONSTRUCTION

PROPOSED 12" D.I. DOMESTIC,  
CAPPED FOR FUTURE

PROPOSED BUNKER BUILDING  
(GLASS BUILDING EXTENSION)  
W/ ROOF MOUNTED SOLAR ARRAY

REAR PHOTOVOLTAIC  
CANOPY - OPEN  
SIDED ROOF #1

ALL UTILITIES THAT  
CROSS RAIL ARE TO BE  
ENCASED IN CONCRETE

EXISTING GLASS RECYCLING BUILDING  
AREA=92,220± SF

RE-ROUTED  
12" D.I. FIRE SERVICE

BENCHMARK  
X-CUT IN FRONT BONNET BOLT  
ELEV. = 80.96 (NAVD 88)

SMH (4" DIA.)

RM-EXISTING

6" INV.=75.11(N)

8" INV.=74.81(E)

12" INV.=74.11(S)

PROPOSED  
SIDE BUNKER BUILDING  
W/ ROOF MOUNTED SOLAR ARRAY

8" D.I. FIRE  
SERVICE

OIL/WATER  
SEPERATOR

SEE UTILITY  
BLOW UP ON  
PAGE 13

FRONT PHOTOVOLTAIC CANOPY #1  
W/ OPEN SIDED CONSTRUCTION

EXISTING 12" D.I. DOMESTIC  
(TO BE CUT AND CAPPED)

SMH-3

RM=79.89

15" INV.=72.66 (E)

8" INV.=73.08 (S)

15" INV.=72.58 (W)

EXISTING SMH

RM-EXISTING

6" INV.=74.21 (N)

6" INV.=74.11 (S)

12" D.I. FIRE  
SUPPRESSION MAIN

12" D.I. DOMESTIC  
WATER MAIN

SMH-2

RM=80.09

15" INV.=72.88 (E)

6" INV.=72.88 (N)

15" INV.=72.72 (W)

SMH-3

RM=78.92

15" INV.=73.97 (N)

15" INV.=73.87 (W)

MAP 134 LOT 457  
N/F  
NSTAR ELECTRIC  
COMPANY

# REVISIONS

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PREPARED  
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JULY 3, 2019

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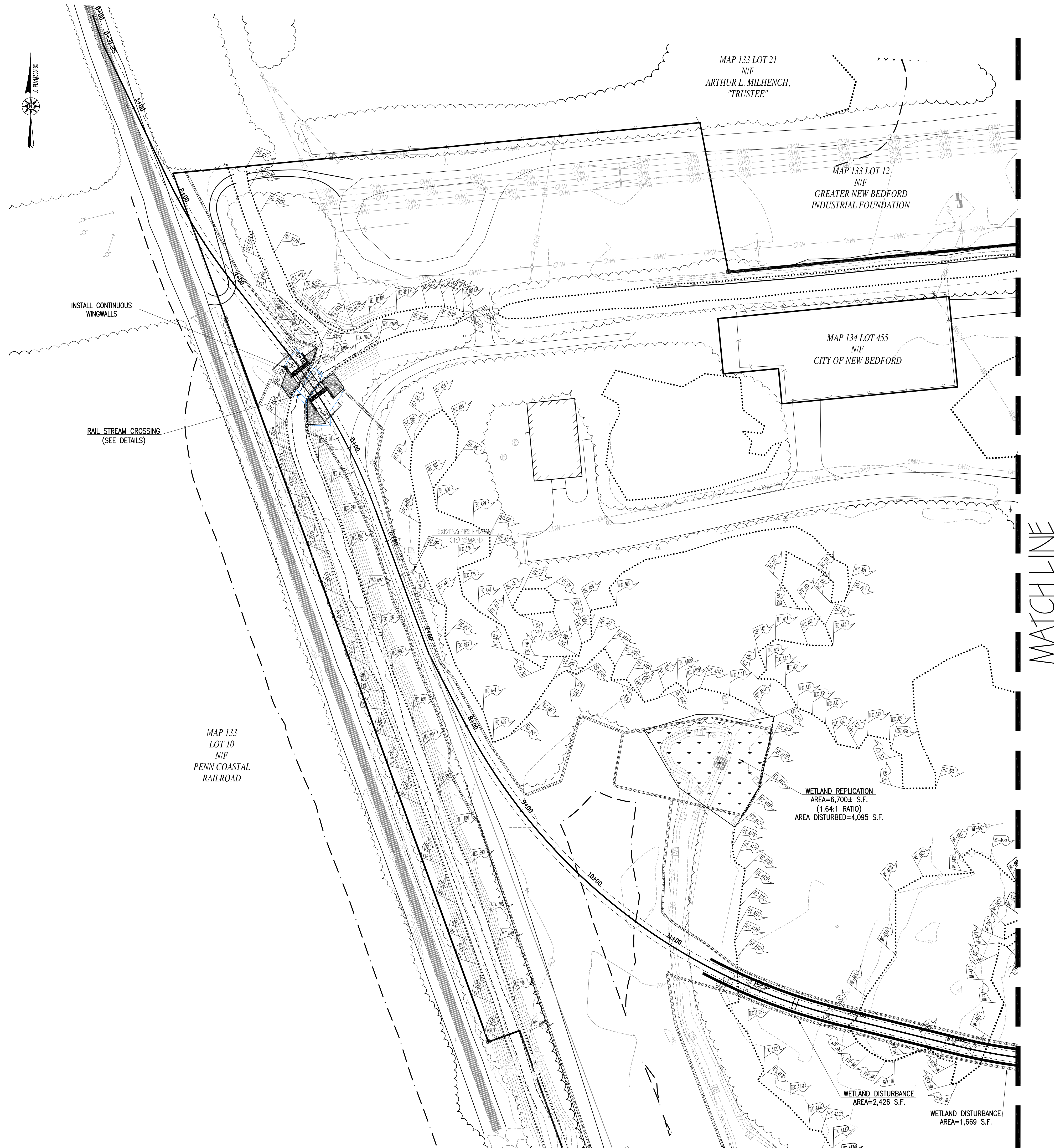
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UTILITIES

SHEET 11 OF 26



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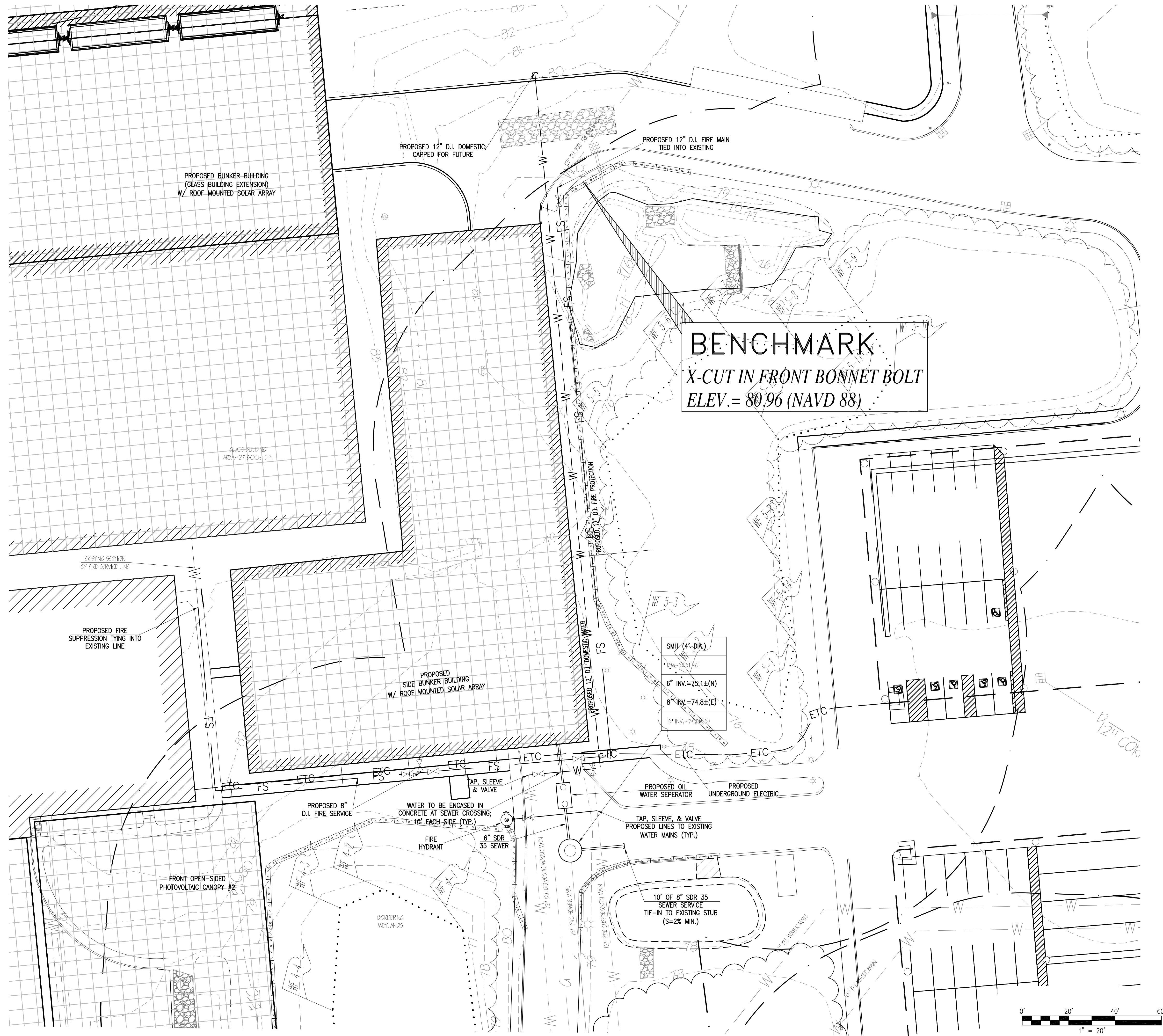
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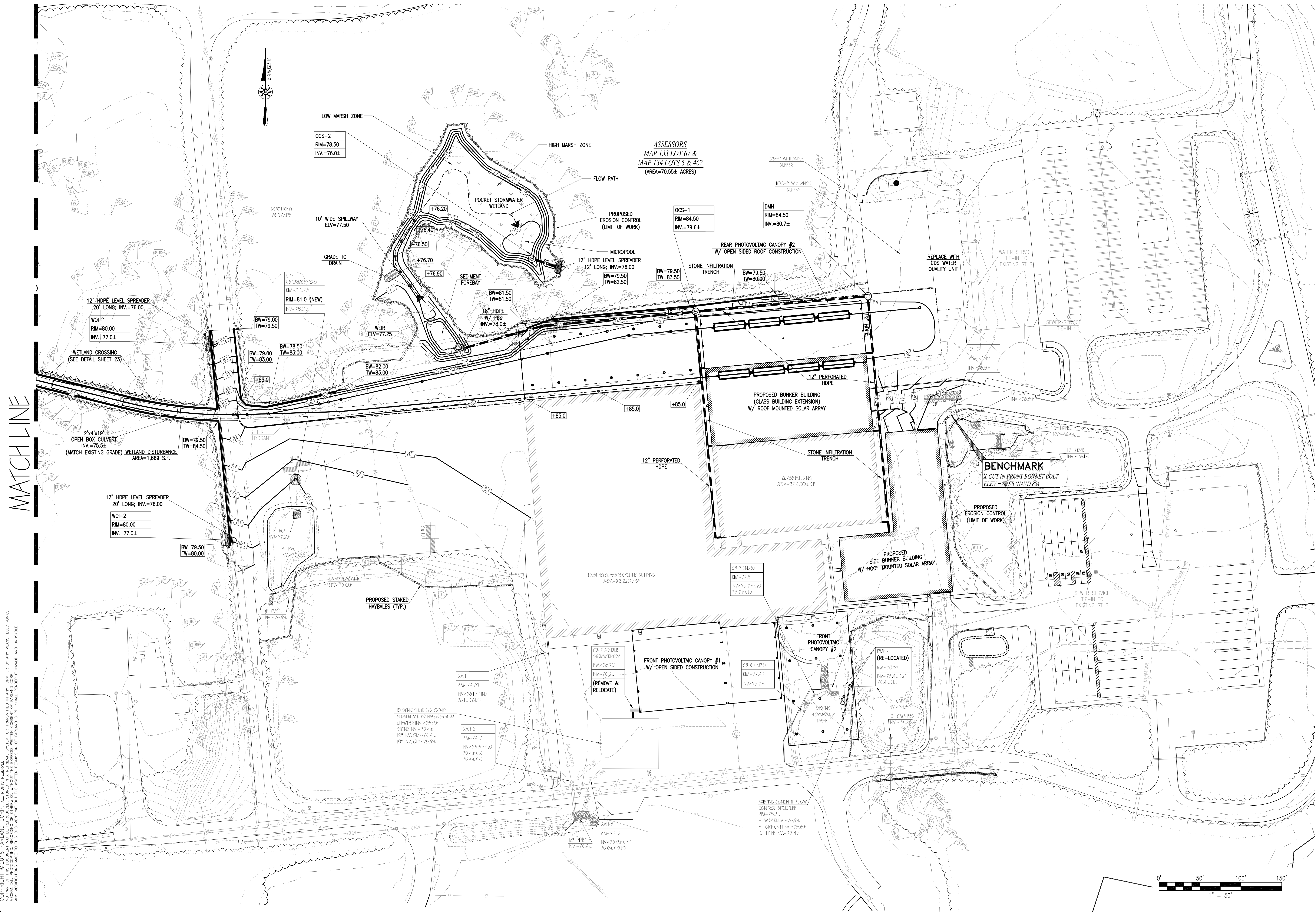
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UTILITIES  
SHEET 13 OF 26





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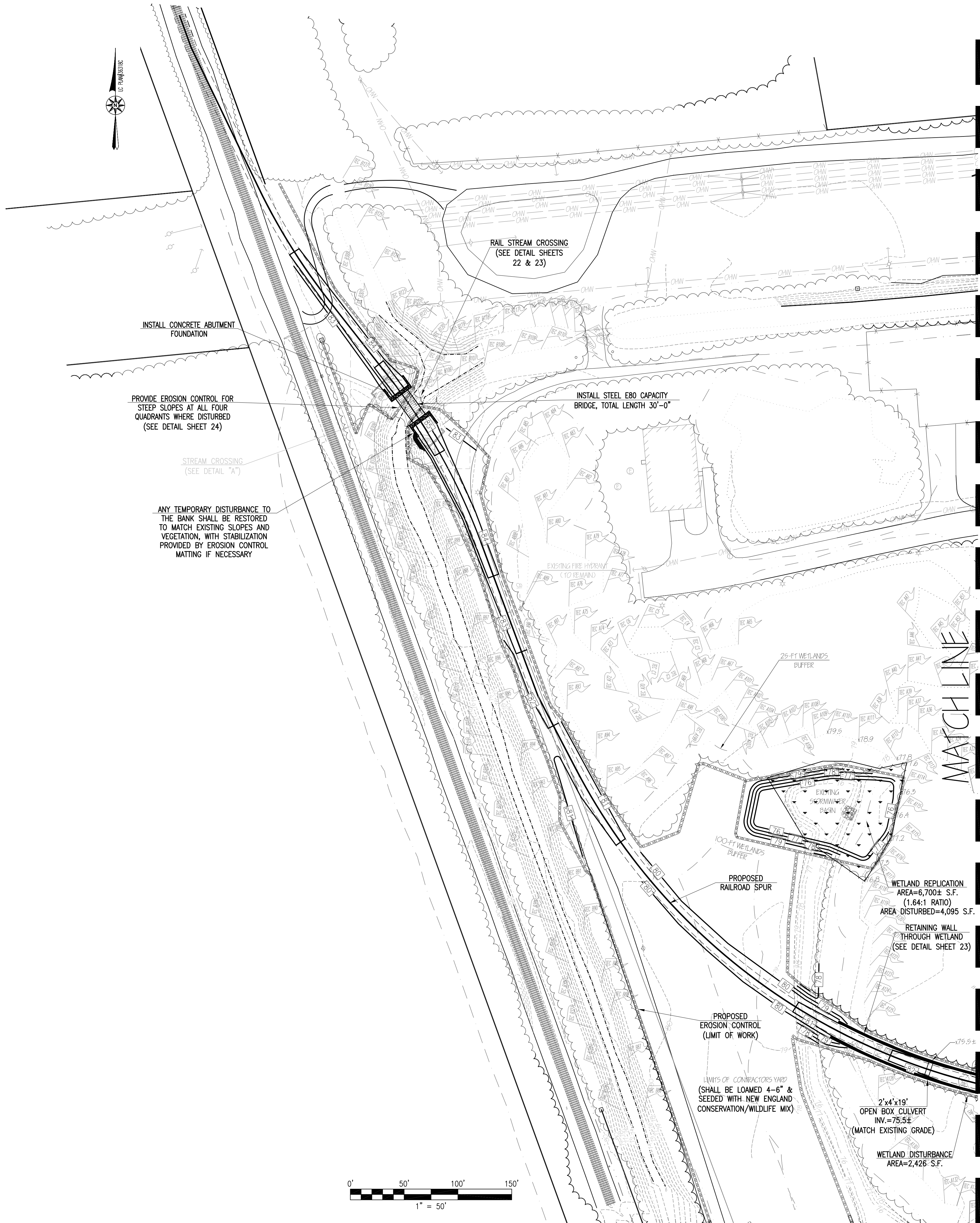
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JOB NO. 15-500.2
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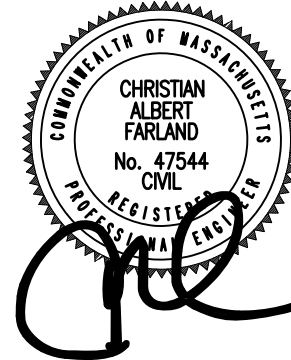


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#### REVISIONS

1	9/13/19	CONSERVATION COMMENTS
2	10/15/19	PHASE I AND II
3	11/10/20	CONSERVATION COMMENTS
4	6/26/20	CONSERVATION COMMENTS
5	11/3/20	PLANNING COMMENTS



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401 COUNTY STREET  
NEW BEDFORD, MA 02740  
P.508.717.3479  
OFFICES IN:  
• TAUNTON  
• MARLBOROUGH  
• WARWICK, RI

DRAWN BY: MJW

DESIGNED BY: CAF

CHECKED BY: CAF

#### SITE PLAN

— 100 DUCHAINE BOULEVARD —  
ASSESSORS MAP 133 LOT 67  
ASSESSORS MAP 134 LOTS 5 & 462  
NEW BEDFORD, MASSACHUSETTS

PREPARED FOR:  
PARALLEL PRODUCTS OF NEW ENGLAND  
401 INDUSTRY ROAD  
LOUISVILLE, KY 40208

JULY 3, 2019

SCALE: 1"=50'

JOB NO. 15-500.2

LATEST REVISION:  
NOVEMBER 3, 2020

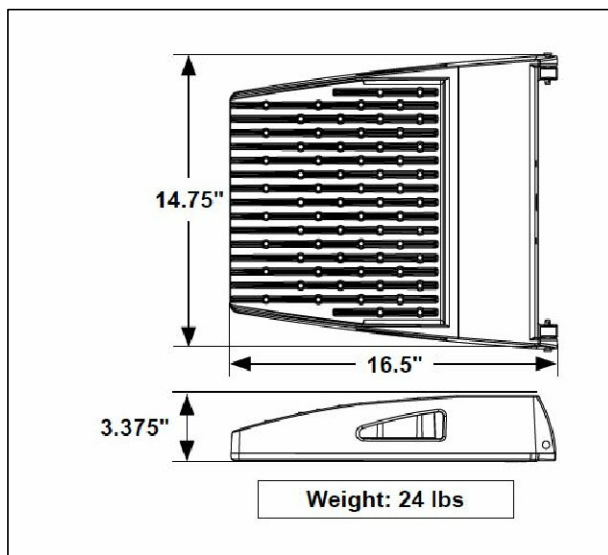
GRADING & DRAINAGE  
CONT.

SHEET 15 OF 26

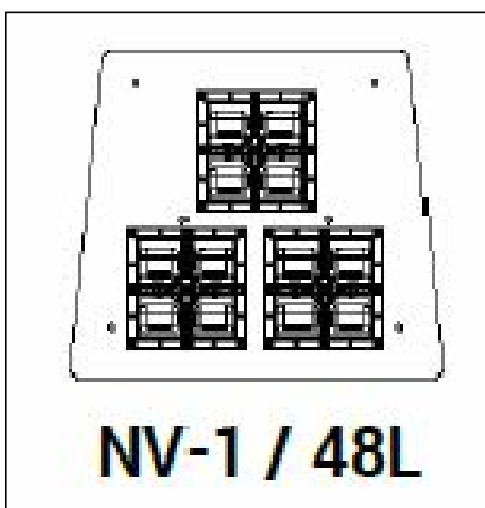


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MATCHLINE

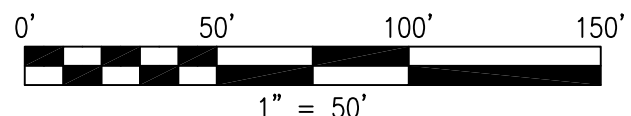


WALL MOUNT LIGHT (NV1-T4-48L-7-50K)  
NOT TO SCALE



**WALL MOUNT (WM)**  
Cast Aluminum Plate for direct wall mount. 3" extruded aluminum arm mounts directly to a cast wall mount box.

1.25" THK



REVISIONS

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**SITE PLAN**

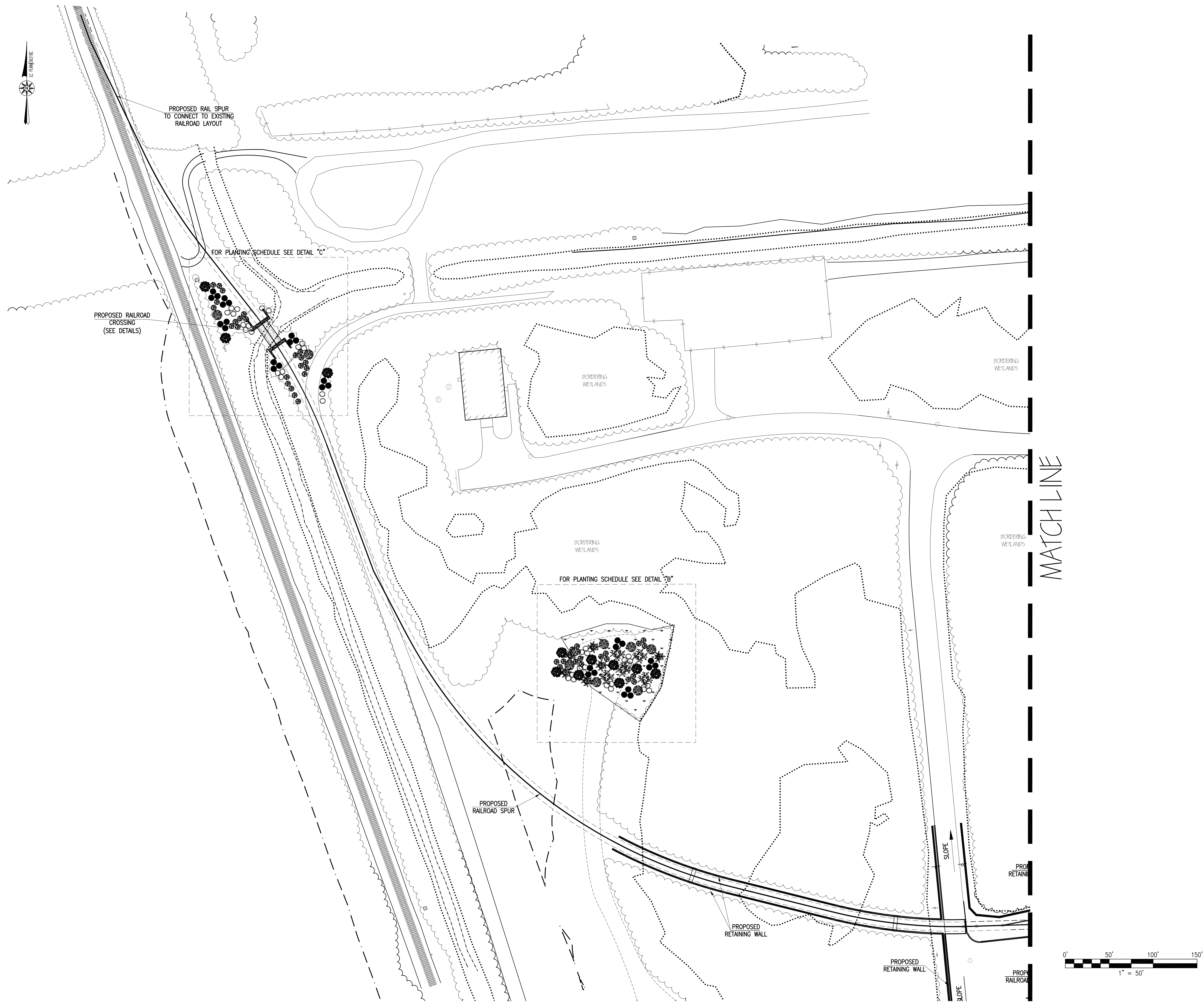
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JULY 3, 2019  
SCALE: 1"=50'  
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LATEST REVISION:  
NOVEMBER 3, 2020  
LIGHTING & LANDSCAPING  
SHEET 16 OF 26



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— 100 DUCHAINE BOULEVARD —  
ASSESSORS MAP 133 LOT 67  
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LIGHTING & LANDSCAPING  
CONT.

SHEET 17 OF 26



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GENERAL NOTES

- ALL PLANTINGS SHALL BE NATIVE VARIETIES WITH NO LANDSCAPE CULTIVARS INSTALLED.
- SPECIFIC PLACEMENT OF SHRUBS AND TREES ALONG THE EDGES OF THE POCKET WETLAND SHALL BE CARRIED OUT BY A QUALIFIED WETLAND SCIENTIST BASED ON ANTICIPATED WATER LEVELS & WETLAND INDICATOR STATUS. THE WETLAND SCIENTIST SHALL OVERSEE APPLICATION OF SEEDMIX AND GENERAL PLUG INSTALLATION LOCATIONS & WATER DEPTH ELEVATIONS.
- IF NECESSARY, ANY REQUIRED SUBSTITUTE NATIVE WOODY PLANTINGS OR NATIVE GROUNDCOVER SPECIES SHALL BE REVIEWED BY THE WETLAND SCIENTIST PRIOR TO INSTALLATION.
- INSTALLATION OF PLANTINGS IS RECOMMENDED IN THE SPRING OR FALL SEASON.
- SEEDMIXES SHALL BE APPLIED ACCORDING TO THE SUPPLIERS INSTRUCTIONS.
- APPROXIMATELY 6 INCHES OF ORGANIC RICH TOP SOIL SHALL BE ESTABLISHED THROUGHOUT.
- THE PROPOSED SOIL SHALL BE COMPRISED OF CLEAN LEAF COMPOST AND LOAM MIXTURE.
- ANY NECESSARY DEWATERING DURING PLANTING WILL BE CARRIED OUT USING CONSTRUCTION BEST MANAGEMENT PRACTICES.
- SHOULD DURING CONSTRUCTION STORMWATER INPUTS OCCUR IN THE POCKET WETLAND, PLANTINGS ARE RECOMMENDED TO BE INSTALLED AFTER THIS CONSTRUCTION PERIOD.
- THE ANTICIPATED MEAN WATER LEVELS TO BE CONFIRMED/ESTIMATED PRIOR TO PLANTING BY THE MONITORING WETLAND SCIENTIST AND/OR ENGINEER TO GUIDE PLANT INSTALLATION ELEVATIONS.
- IT IS RECOMMENDED THAT PLUGS BE SECURED WITH BIODEGRADABLE STAKES, STAPLES OR SMALL STONES TO PREVENT FLOATING WITHIN SURFACE WATER.
- POCKET WETLANDS TO BE SEEDED WITH 50/50 MIX COMPRISED OF NORTHEAST WETLAND NATIVE RUSH/BULRUSH MIX & THE NEW ENGLAND OBLIGATE SEED MIX. THE UPLAND WETLAND EDGE PERIMETER OF THE POCKET WETLAND AREA TO BE SEEDED WITH THE NEW ENGLAND EROSION CONTROL AND RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES.

POCKET WETLAND GENERAL NOTES

- THE PROPOSED SHRUBS AND TREES IN THE POCKET WETLAND PLANTING SPECIFICATIONS LIST SHALL BE EQUALLY DISTRIBUTED ALONG THE PERIMETER OF THE POCKET WETLAND ON THE EMBANKMENTS AND WITHIN THE EDGES OF THE HIGH MARSH. THE SPECIFIC LOCATIONS OF THE PLANTINGS SHALL BE OVERSEEN BY THE MONITORING WETLAND SCIENTIST TO ENSURE PROPER TARGET HYDROLOGY FOR EACH SPECIES (E.G. WILLOWS, BUTTONBUSH AND SWAMP ROSE TO BE PLACED AT OR A FEW INCHES ABOVE THE OUTERMOST EDGE OF TARGETED MEAN SURFACE WATER LEVEL. RED MAPLE AND TUPELO TO BE PLACED ANYWHERE ABOVE MEAN SURFACE WATER. REMAINDER OF PROPOSED WOODY PLANTINGS TO BE SITUATED 1-2 FEET ABOVE INTENDED SURFACE WATER LEVELS).

WETLAND REPLICATION AREA

- APPROXIMATELY 12 INCHES OF ORGANIC TOP SOIL SHALL BE ESTABLISHED IN THE WETLAND REPLICATION AREA.
- THE PROPOSED SOIL SHALL BE COMPRISED OF CLEAN LEAF COMPOST AND LOAM MIXTURE, AND SHALL HAVE APPROXIMATELY 20% ORGANIC MATTER CONTENT. THE IMPORTED SOIL SHALL BE INSPECTED BY THE WETLAND SCIENTIST BEFORE PLACEMENT IN THE REPLICATION AREA.
- PIT AND MOUND MICRO-TOPOGRAPHY SHALL BE ESTABLISHED IN THE WETLAND REPLICATION AREA UNDER THE OVERSIGHT OF THE WETLAND SCIENTIST.
- EFFORT SHALL BE MADE TO MINIMIZE SOIL COMPACTION DURING CONSTRUCTION.

POCKET WETLAND SEEDMIXES

New England Province OBL Mix  
Ernst Seeds Item Number: ERNMX-252  
Seeding Rate: 20 lb per acre

Mix Composition  
27.5% Carex vulpinoidea, PA Ecotype (Fox Sedge, PA Ecotype)  
11.0% Carex lupulina, PA Ecotype (Hop Sedge, PA Ecotype)  
11.0% Carex lurida, PA Ecotype (Lurid Sedge, PA Ecotype)  
10.0% Carex scoparia, PA Ecotype (Blunt Broom Sedge, PA Ecotype)  
6.2% Sparganium americanum (Eastern Bur Reed)  
5.0% Elymus virginicus, PA Ecotype (Virginia Wildrye, PA Ecotype)  
5.0% Panicum rigidulum, PA Ecotype (Redtop Panicgrass, PA Ecotype)  
4.0% Verbena hastata, PA Ecotype (Blue Vervain, PA Ecotype)  
3.0% Cinna arundinacea, PA Ecotype (Wood Reedgrass, PA Ecotype)  
3.0% Juncus effusus (Soft Rush)  
2.0% Alisma subcordatum, PA Ecotype (Mud Plantain, PA Ecotype)  
2.0% Asclepias incarnata, PA Ecotype (Swamp Milkweed, PA Ecotype)  
2.0% Carex intumescens, PA Ecotype (Star Sedge, PA Ecotype)  
2.0% Sparganium eurycarpum, PA Ecotype (Giant Bur Reed, PA Ecotype)  
1.0% Aster umbellatus, PA Ecotype (Flat Topped White Aster, PA Ecotype)  
1.0% Eupatorium perfoliatum, PA Ecotype (Boneset, PA Ecotype)  
1.0% Iris versicolor, PA Ecotype (Blueflag, PA Ecotype)  
0.5% Carex stricta, PA Ecotype (Tussock Sedge, PA Ecotype)  
0.5% Eupatorium fistulosum, PA Ecotype (Joe Pye Weed, PA Ecotype)  
0.5% Helenium autumnale, PA Ecotype (Common Sneezeweed, PA Ecotype)  
0.5% Lobelia siphilitica, PA Ecotype (Great Blue Lobelia, PA Ecotype)  
0.5% Scirpus cyperinus, PA Ecotype (Woolgrass, PA Ecotype)  
0.5% Scirpus validus, PA Ecotype (Softstem Bulrush, PA Ecotype)  
0.3% Chelone glabra, PA Ecotype (Turtlehead, PA Ecotype)

Northeast Wetland Rush/Bulrush Mix

(Application Rate: 1 pound for 43,560 sq. ft. @ 230+ seeds per sq. ft.  
(Southern Tier Consulting, Inc.)

Soft Rush	Juncus effusus
Green Bulrush	Scirpus atrovirens
Wool Grass	Scirpus cyperinus
Soft Stem Bulrush	Scirpus tabernaemontanii
Common Three Square	Scirpus pungens

New England Erosion Control and Restoration Mix  
for Detention Basins and Moist Sites

(35 lbs/acre 1250 sq ft/lb)  
(New England Wetland Plants, Inc.)

Virginia Wild Rye, (Elymus virginicus), Creeping Red Fescue, (Festuca rubra), Little Bluestem, (Schizachyrium scoparium), Fox Sedge, (Carex vulpinoidea), Big Bluestem, (Andropogon gerardii), Switch Grass, (Panicum virgatum), Rough Bentgrass/Ticklegrass, (Agrostis scabra), Blue Vervain, (Verbena hastata), New England Aster, (Symphytrichum novaeangliae), Boneset, (Eupatorium perfoliatum), Green Bulrush, (Scirpus atrovirens), Flat-top Goldentop, (Euthamia graminifolia), Soft Rush, (Juncus effusus), Wool Grass, (Scirpus cyperinus).

POCKET WETLAND PLUG PLANTING SPECIFICATIONS

HIGH MARSH  
AREAS OF HIGH MARSH TO BE PLANTED WITH MINIMUM 200 2" PLUGS FROM THE BELOW LIST.

INCLUDE TWO OF THE FOLLOWING:








SCIRPUS CYPERINUS (WOOLGRASS)  
CAREX LURIDA (LURID SEDGE)  
JUNCUS EFFUSUS (SOFT RUSH)  
PELTANDRA VIRGINICA (ARROW ARUM)






AND TWO OF THE FOLLOWING SPECIES:

THREE-SQUARE BULRUSH (SCIRPUS PUNGENS)  
SCIRPUS ATROVIRENS (GREEN BULRUSH)  
JUNCUS CANADENSIS (CANADA RUSH)  
BLUE FLAG IRIS (IRIS VERSICOLOR)  
ACORUS AMERICANA (SWEETFLAG)  
CAREX STRICTA (TUSSOCK SEDGE)

MICROPOOL AND LOW MARSH  
MICROPOOL AND LOW MARSH TO BE PLANTED WITH MINIMUM 300 2" PLUGS OR CELLS FROM THE BELOW LIST.

SCHOENOPLECTUS ACUTUS (HARD-STEM BULRUSH)  
SCHOENOPLECTUS TABERNAEMONTANI (SOFT-STEM BULRUSH)  
PICKERELWEED (PONTEDERIA CORDATA)  
THREE-SQUARE BULRUSH (SCIRPUS PUNGENS)  
NORTHERN ARROWHEAD (SAGITTARIA LATIFOLIA)

WETLAND REPLICATION PLANTING TABLE				
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
TREES				
	ACER RUBRUM	RED MAPLE	3 INCH CALIPER	8
	BETULA POPULIFOLIA	GRAY BIRCH	3 INCH CALIPER	6
SHRUBS				
	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	24 INCH	18
	VACCINIUM CONYMBOSIUM	HIGHBUSH BLUEBERRY	24 INCH	18
	ILEX VERTICILLATA	WINTERBERRY	24 INCH	12
GROUND				
	ONOCLEA SENSIBILIS	SENSITIVE FERN	1 GALLON	24
	OSMUNDA CINNAMOMEA	CINNAMON FERN	1 GALLON	20

RIVERFRONT RESTORATION PLANTING TABLE				
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
TREES				
	ACER RUBRUM	RED MAPLE	3 INCH CALIPER	3
	BETULA POPULIFOLIA	GRAY BIRCH	3 INCH CALIPER	2
SHRUBS				
	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	24 INCH	18
	VACCINIUM CONYMBOSIUM	HIGHBUSH BLUEBERRY	24 INCH	23
	ILEX VERTICILLATA	WINTERBERRY	24 INCH	18

POCKET WETLAND PLANT LIST

COMMON NAME	BOTANICAL NAME	SIZE	PLANTING SPECIFICATIONS	NO.
TREES				
PUSSY WILLOW	SALIX DISCOLOR	4-6' MIN.	SINGLES, 10-20 FEET O.C.	7
BLACK WILLOW	SALIX NIGRA	4-6' MIN.	SINGLES, 10-20 FEET O.C.	7
BLACK GUM	NYSSA SYLVATICA	4-6' MIN.	SINGLES, 10-20 FEET O.C.	7
RED MAPLE	ACER RUBRUM	4-6' MIN.	SINGLES, 10-20 FEET O.C.	7
SWAMP WHITE OAK	QUERCUS BICOLOR	4-6' MIN.	SINGLES, 10-20 FEET O.C.	7
SHRUBS				
HIGHBUSH BLUEBERRY	VACCINIUM CORYMBOSUM	2-3' MIN.	CLUSTERS 3-5, 4-6' O.C.	7
BUTTONBUSH	CEPHALANSIS OCCIDENTALIS	2-3' MIN.	CLUSTERS 3-5, 4-6' O.C.	7
COMMON ELDERBERRY	SAMBUSCUS CANADENSIS	2-3' MIN.	CLUSTERS 3-5, 4-6' O.C.	7
SWAMP ROSE	ROSA PALUSTRIS	2-3' MIN.	CLUSTERS 3-5, 4-6' O.C.	7
WINTERBERRY	ILEX VERTICILLATA	2-3' MIN.	CLUSTERS 3-5, 4-6' O.C.	7

SURROUNDING UPLAND PLANT SPECIES

Tree layer  
Red maple (Acer rubrum)  
White pine (Pinus strobus)  
Gray birch (Betula populifolia)  
White oak (Quercus alba)  
Eastern hemlock (Tsuga canadensis)

Shrub layer  
White pine (Pinus strobus)  
Gray birch (Betula populifolia)  
Black gum (Nyssa sylvatica)  
Sweet pepperbush (Clethra alnifolia)  
American holly (Ilex opaca)  
American beech (Fagus grandifolia)

Climbing woody vines  
Round-leaved greenbrier (Smilax rotundifolia)

Herbaceous  
Broom sedge (Andropogon virginicus)  
Little bluestem (Schizachyrium scoparium)  
Unspecified sedge species (Carex sp.)  
Trailing raspberry (Rubus sp.)

SURROUNDING WETLAND PLANT SPECIES

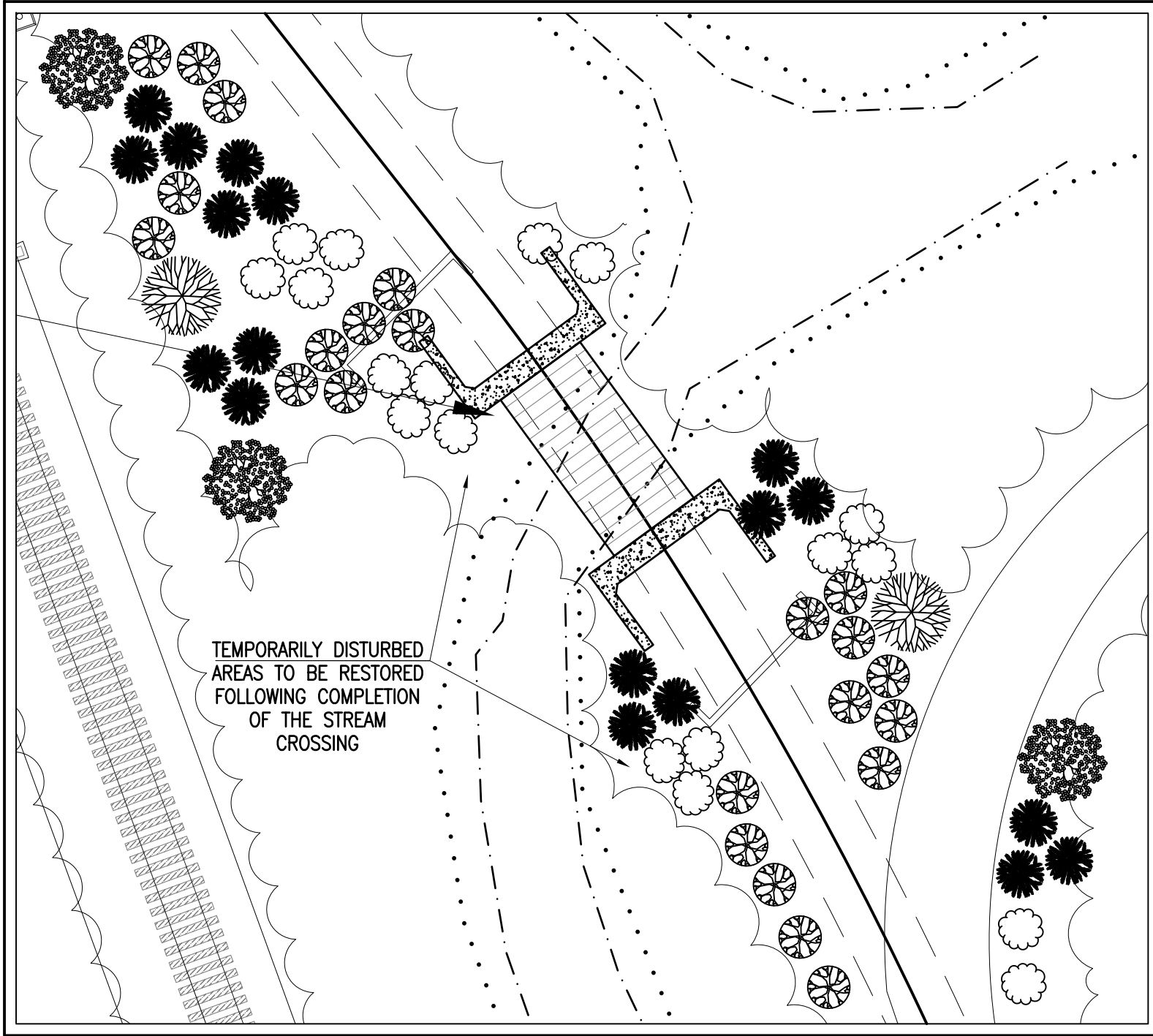
Tree layer  
Gray birch (Betula populifolia)

Shrub layer  
Red maple (Acer rubrum)  
Sweet pepperbush (Clethra alnifolia)  
Multiflora rose (Rosa multiflora)  
Highbush blueberry (Vaccinium corymbosum)  
Maleberrry (Lyonia ligustrina)  
Arrowwood (Viburnum recognitum)

Climbing woody vines  
Oriental bittersweet (Celastrus orbiculatus)

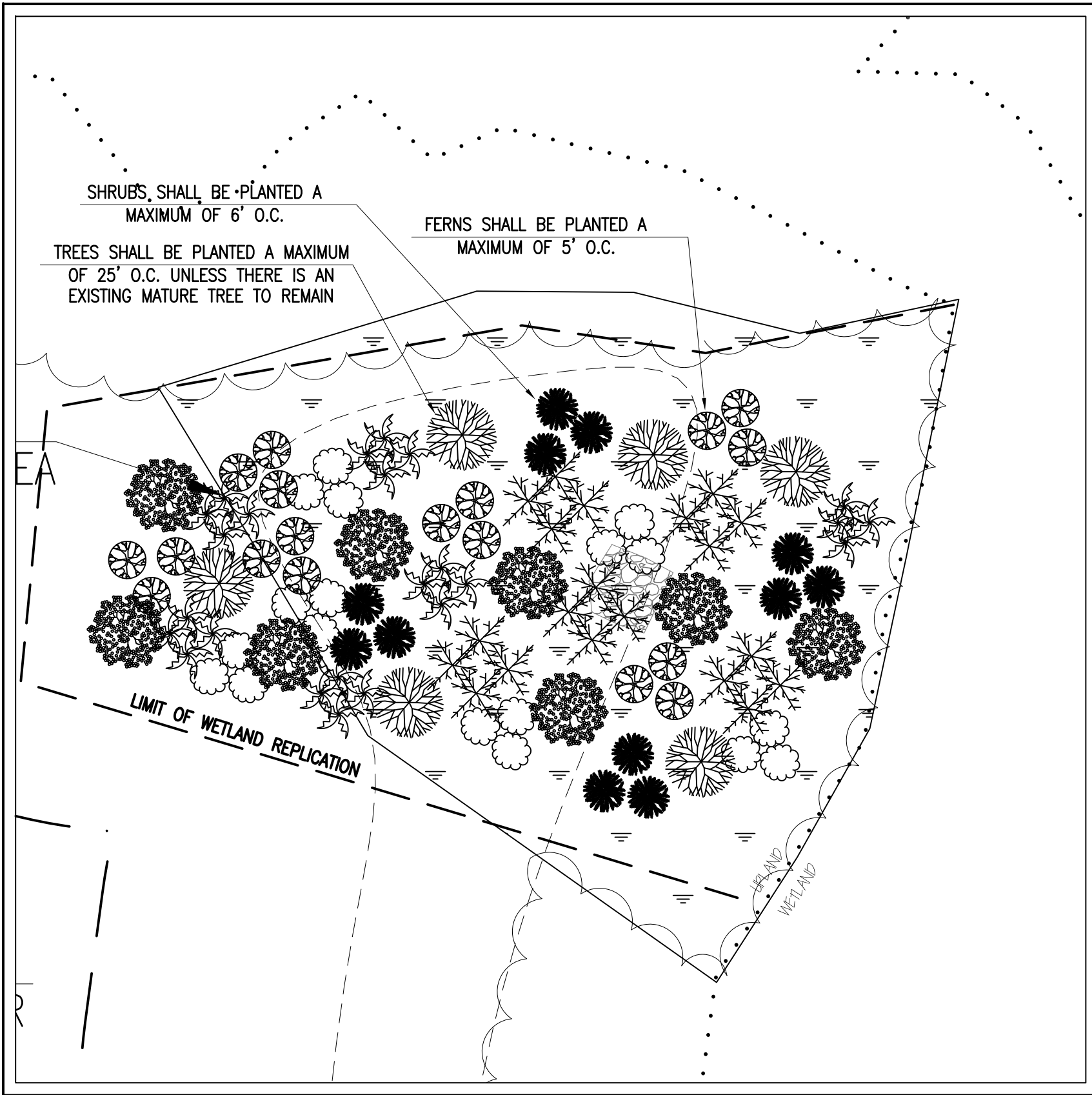
Herbaceous layer  
Sensitive fern (Onoclea sensibilis)  
Cinnamon fern (Osmunda cinnamomea)  
Soft rush (Juncus effusus)

Reed canary-grass (Phalaris arundinacea)  
Pennsylvania smartweed (Polygonum pensylvanica)  
Arrow-leaved tearthumb (Polygonum cuspidatum)



RIVERFRONT AREA RESTORATION (DETAIL "C")

SCALE: 1"=20'

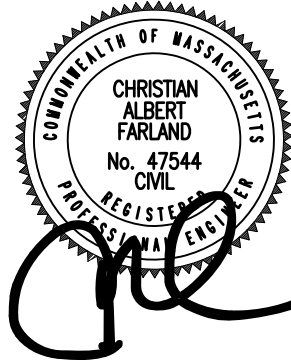


WETLAND REPLICATION (DETAIL "B")

SCALE: 1"=20'

REVISIONS

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- WARWICK, RI

DRAWN BY: MJW

DESIGNED BY: CAF

CHECKED BY: CAF

SITE PLAN

100 DUCHAINE BOULEVARD  
ASSESSORS MAP 133 LOT 67  
ASSESSORS MAP 134 LOTS 5 & 462  
NEW BEDFORD, MASSACHUSETTS

PARALLEL PRODUCTS OF NEW ENGLAND  
401 INDUSTRY ROAD  
LOUISVILLE, KY 40208

PREPARED  
FOR:

JULY 3, 2019

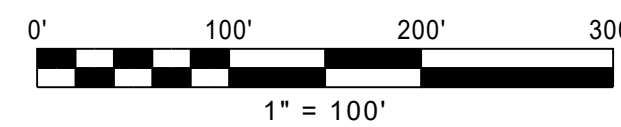
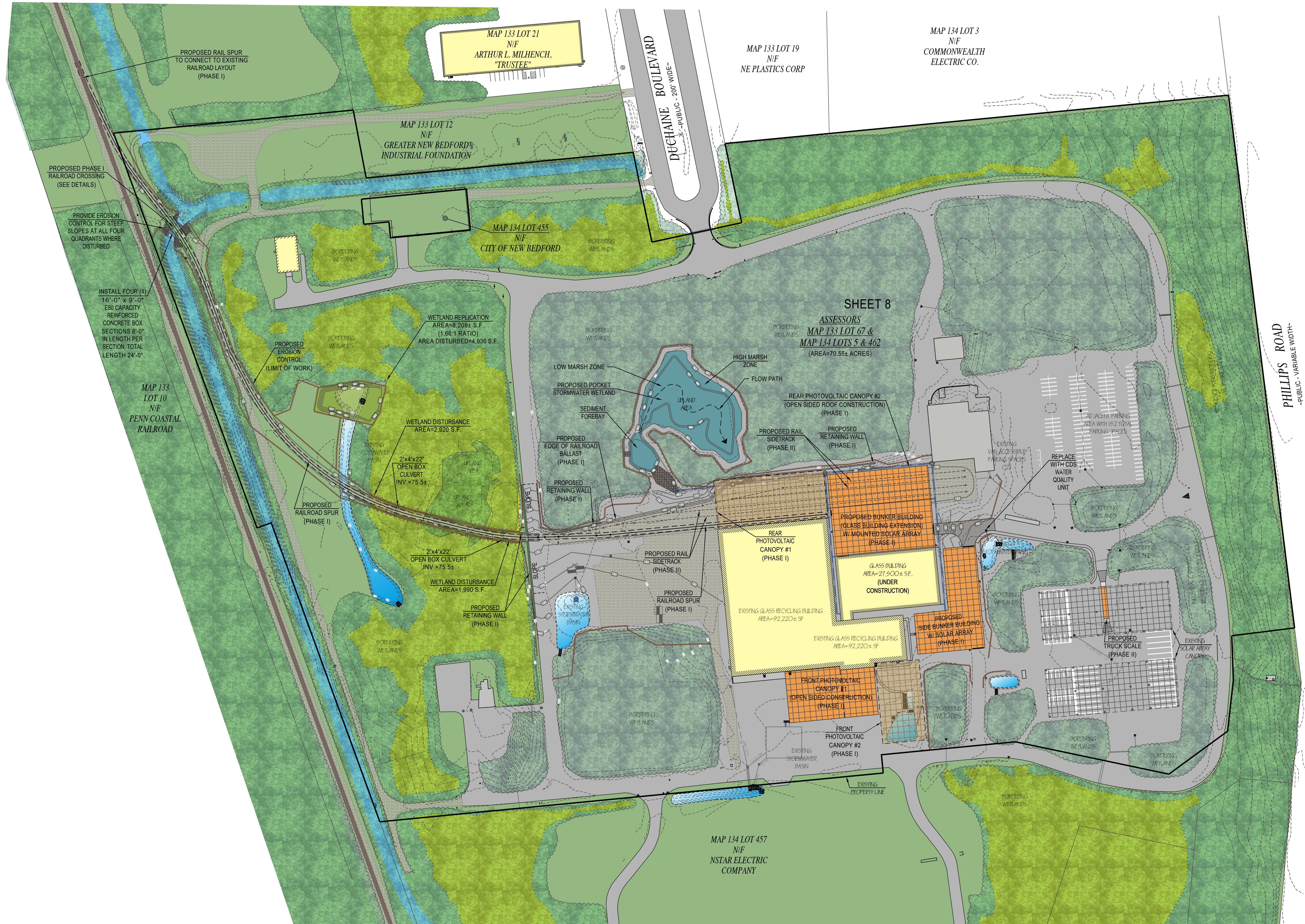
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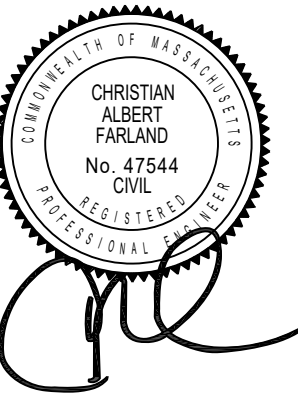
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LANDSCAPING &  
PLANTING SCHEDULES  
SHEET 18 OF 26





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SITE PLAN

100 DUCHAINE BOULEVARD  
ASSESSORS MAP 133 & 134 LOTS 67 AND 5 & 462  
NEW BEDFORD, MASSACHUSETTS

PREPARED FOR:  
PARALLEL PRODUCTS OF NEW ENGLAND  
100 DUCHAINE BOULEVARD  
NEW BEDFORD, MA 02745

JULY 3, 2019

SCALE: 1"=100'

JOB NO. 15-500.2

LATEST REVISION  
NOVEMBER 3, 2020

PRESENTATION

SHEET 19 OF 25



GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIG SAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
2. TOPOGRAPHIC AND PROPERTY LINE SURVEY PERFORMED BY FARLAND CORP. IN APRIL OF 2019.
3. VERTICAL ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 AND HORIZONTAL LOCATIONS REFER TO THE NORTH AMERICAN DATUM (NAD) OF 1983.
4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL STANDARDS AND REGULATIONS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE WORK.
6. ALL BENCHMARKS SHOWN ON THIS PLAN ARE TO BE CHECKED FOR CONSISTENCY BY THE CONTRACTOR. ANY DISCREPANCIES MUST BE RESOLVED BY THIS OFFICE PRIOR TO CONSTRUCTION.
7. WHERE PROPOSED PAVEMENT AND WALKS ARE TO MEET EXISTING, THE CONTRACTOR SHALL SAWCUT A NEAT LINE AND MATCH GRADE. SEAL ALL JOINTS WITH HOT BITUMINOUS ASPHALT JOINT SEALER.
8. CURBING TO BE AS INDICATED ON THE PLANS.
9. ALL EXISTING TREES, SHRUBS AND GROUND COVER WHERE NATURAL GRADE IS TO BE RETAINED SHALL BE KEPT IN THEIR EXISTING STATE UNLESS REMOVAL IS REQUIRED FOR CONSTRUCTION PURPOSES.
10. ALL AREAS DISTURBED BY CONSTRUCTION AND NOT TO BE PAVED OR OTHERWISE TREATED AS NOTED ON PLAN SHALL BE TREATED WITH 4" OF LOAM, SEEDED AND HAY MULCHED FOR EROSION CONTROL.
11. SITE IMPROVEMENTS SHALL CONFORM TO A.D.A. SPECIFICATIONS.
12. LIGHTING SHALL BE DIRECTED ON SITE AND AWAY FROM TRAFFIC INTERFERENCE.
13. TEST PITS AND/OR BORINGS WERE TAKEN FOR THE PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY. THEY DO NOT NECESSARILY SHOW THE NATURE OF ALL MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
14. THE CONTRACTOR SHALL PROTECT AND/OR CAP OFF ALL EXISTING ON-SITE UTILITY SERVICES ACCORDING TO THE LOCAL AUTHORITY'S SPECIFICATIONS. SERVICES SHALL BE CAPPED OFF WHERE SAME ENTER THE PERIMETER OF THE PROPERTY LINE.
15. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS AND SITE CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION.
16. ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING OR CONSTRUCTION.
17. THESE PLANS ARE PERMITTING PLANS AND SHALL NOT TO BE USED FOR CONSTRUCTION. A FINAL SET OF STAMPED PLANS FOR CONSTRUCTION WILL BE ISSUED AFTER RECEIVING FINAL APPROVAL FROM THE LOCAL AND/OR STATE DEPARTMENTS.
18. TRAFFIC SIGNS SHALL BE INSTALLED ON THE RING ROAD AND ON DUCHAINE BLVD THAT STATES: "COMMERCIAL TRAVEL PROHIBITED ON PHILLIPS ROAD; USE THEODORE RICE BLVD FOR ACCESS TO ROUTE 140"

CONSTRUCTION SEQUENCING NOTES

1. CONSTRUCT TEMPORARY AND PERMANENT EROSION CONTROL FACILITIES. EROSION CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING.
2. TREE PROTECTION FENCE SHALL BE INSTALLED AND APPROVED BY THE OWNER REPRESENTATIVE PRIOR TO ANY EARTH MOVING.
3. ALL PERMANENT DITCHES AND SWALES ARE TO BE STABILIZED WITH VEGETATION OR RIP RAP PRIOR TO DIRECTING RUNOFF TO THEM.
4. CLEAR CUT, DEMOLISH AND DISPOSE OF EXISTING SITE ELEMENTS NOT TO REMAIN.
5. STORMWATER SHALL NOT BE DIRECTED TOWARDS THE INFILTRATION BASINS UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
6. GRADE AND GRAVEL ALL PAVED AREAS. ALL PROPOSED PAVED AREAS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.
7. BEGIN ALL PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION.
8. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES AND MULCH AND SEED AS REQUIRED.
9. FINISH PAVING ALL HARD SURFACE AREAS.
10. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES.
11. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
12. REMOVE TEMPORARY EROSION CONTROL MEASURES.
13. THE CONSTRUCTION SEQUENCE SHALL BE CONFINED TO THE LIMIT OF WORK AS SHOWN ON THE DRAWINGS.
14. UPON COMPLETION OF CONSTRUCTION THE OWNER SHALL AGREE TO MAINTAIN AND CLEAN ALL DRAINAGE STRUCTURES AS REQUIRED.

SITE PREPARATION NOTES

1. WITHIN THE LIMIT OF WORK LINE AS NOTED ON THE SITE PLANS, REMOVE AND DISCARD ALL CONCRETE PAVEMENT, BITUMINOUS CONCRETE PAVEMENT, BRICK PAVEMENT, TOP SOIL, MULCH, TRASH, DEAD TREES AND STUMPS, SHRUBBERY, CHAIN LINK FENCE POSTS, RAILS, FABRIC, GATES, FOOTINGS AND ALL APPURTENANCES, BOLLARDS, POSTS, CONCRETE FOOTINGS AND FOUNDATIONS, WALLS AND CURBS UNLESS OTHERWISE NOTED.
2. THE OWNER'S REPRESENTATIVE SHALL BE CONSULTED AND WILL REVIEW THE WORK ON SITE WITH THE CONTRACTOR BEFORE ANY WORK SHALL COMMENCE.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
4. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING CONDITIONS TO REMAIN THAT ARE DUE TO CONTRACTOR OPERATIONS.
5. ALL ITEMS TO BE REMOVED THAT ARE NOT STOCKPILED FOR LATER REUSE ON THE PROJECT OR DELIVERED TO THE OWNER SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS EFFORTS OF THE DEMOLITION WITH ALL TRADES. THE CONTRACTOR SHALL COORDINATE ALL ADJUSTMENT OR ABANDONMENT OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
7. THE CONTRACTOR SHALL MAINTAIN OR ADJUST TO NEW FINISH GRADES AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POLES, MANHOLES, CATCH BASINS, HAND HOLES, WATER AND GAS GATES, HYDRANTS, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED OR DIRECTED BY THE OWNER'S REPRESENTATIVE.

UTILITY AND GRADING NOTES

1. ALL ON-SITE STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) OR RCP, UNLESS NOTED OTHERWISE.
2. HDPE PIPE SHALL CONFORM WITH ASHTO DESIGNATIONS M294 AND M252, SHALL BE MANUFACTURED WITH HIGH DENSITY POLYETHYLENE PLASTIC AND SHALL BE ADS N-12 PIPE AS MANUFACTURED BY ADVANCE DRAINAGE SYSTEM, INC. OR HANCOR HI Q PIPE AS MANUFACTURED BY HANCOR, INC. OR APPROVED EQUAL UNLESS OTHERWISE NOTED OR DETAILED.
3. A MINIMUM OF 18" VERTICAL CLEARANCE SHALL BE MAINTAINED WHERE WATER SERVICES CROSS STORM DRAIN LINES.
4. ALL SERVICE CONNECTIONS SHALL BE INSTALLED TO A POINT OF 10 FEET FROM THE BUILDING WALL UNLESS OTHERWISE NOTED OR DETAILED.
5. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 5 FEET OF COVER AND A MAXIMUM OF 6 FEET OF COVER EXCEPT AS NOTED OR DETAILED OTHERWISE. GREATER DEPTHS ARE PERMITTED WHERE REQUIRED TO AVOID CONFLICTS WITH OTHER UTILITIES.
6. GENERALLY, WATER MAIN FITTINGS IDENTIFIED ON THIS DRAWING ARE SHOWN FOR INSTALLATION LOCATION PURPOSE. THE CONTRACTOR SHALL NOTE THAT NOT ALL FITTINGS ARE NOTED, SHOWN OR INDICATED.
7. ALL WATER MAIN FITTINGS, TEES, BENDS, HYDRANTS, ETC. SHALL BE RESTRAINED WITH CONCRETE THRUST BLOCKS.
8. ALL HYDRANTS SHALL BE INSTALLED WITH A 6" C.L.D.I. RUNOUT AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED GATE VALVE, BOX, AND TEE FITTING. ALL HYDRANTS SHALL MEET LOCAL MUNICIPAL SPECIFICATION REQUIREMENTS AND SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL MUNICIPAL REQUIREMENTS.
9. DOMESTIC WATER SERVICES 2.5" AND SMALLER SHALL BE TYPE K COPPER TUBING AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED CORPORATION STOP AND APPROVED SADDLE CURB STOP, AND BOX, USING MATERIALS SPECIFIED BY THE MUNICIPAL WATER DEPARTMENT OR COMPANY.
10. ALL WATER MAINS 3" AND LARGER SHALL BE CEMENT LINED DUCTILE IRON - CLASS 52, AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED FITTINGS AND GATE VALVES.
11. ALL WATER MAIN APPURTENANCES, MATERIALS, METHODS OF INSTALLATION AND TESTING REQUIREMENTS SHALL MEET OR EXCEED ALL LOCAL MUNICIPAL REQUIREMENTS.
12. PRESSURE AND LEAKAGE TEST, DISINFECTION AND FLUSHING SHALL BE IN ACCORDANCE WITH ALL LOCAL MUNICIPAL STANDARDS AND REQUIREMENTS. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL COSTS IN CONNECTION WITH UTILITY TESTS, FLUSHING AND INSPECTIONS AS REQUIRED BY THE LOCAL MUNICIPALITY.
13. PRIMARY WATER METER AND BACKFLOW PREVENTER SHALL BE LOCATED AT THE POINT WHERE THE WATER LINE ENTERS THE BUILDING UNLESS OTHERWISE NOTED OR DETAILED ON THE DRAWINGS.
14. ALL GRAVITY SEWER PIPE SHALL BE PVC PER ASTM D3034, SDR-35 AND ASTM D1784 WITH RUBBER GASKET JOINTS.
15. WHERE SANITARY SEWERS CROSS WATER LINES, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST EIGHTEEN INCHES BELOW THE INVERT OF THE WATER MAIN. IF THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THIS REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS SEPARATION OR CONSTRUCTED WITH MECHANICAL JOINT PIPE FOR A DISTANCE OF TEN FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR AS THE SEWER IS POSSIBLE. IF MECHANICAL JOINT PIPE IS NOT USED THAN BOTH THE WATER MAIN AND SANITARY SEWER SHALL BE ENCASED IN CONCRETE FOR A MINIMUM DISTANCE OF 10 FEET FROM THE CROSSING POINT OF THE OTHER PIPE AS MEASURED NORMALLY FROM ALL POINTS ALONG THE PIPE.
16. DUE TO THE SMALL SCALE OF THE SITE WORK DRAWINGS, EXACT LOCATION OF UTILITY STUBS FOR BUILDING CONNECTIONS SHALL BE VERIFIED WITH THE BUILDING DRAWINGS. SERVICE STUBS TO THE BUILDING SHALL BE INSTALLED TO A POINT 10 FEET FROM THE BUILDING WALL UNLESS OTHERWISE NOTED OR DETAILED.
17. BEFORE THE DEVELOPMENT SITE IS GRADED, THE AREA OF THE DRAINAGE BASINS SHOULD BE FENCED OFF TO PREVENT HEAVY EQUIPMENT FROM COMPACTING THE UNDERLYING SOIL.
18. WHERE PROPOSED GRADES MEET EXISTING GRADES, CONTRACTOR SHALL BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW WORK. PONDING AT TRANSITION AREAS WILL NOT BE ALLOWED.
19. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS AND STRUCTURES.
20. MAXIMUM SLOPE IN DISTURBED AREAS SHALL NOT EXCEED 3:1, UNLESS OTHERWISE NOTED.
21. CONTRACTOR SHALL VERIFY EXISTING GRADES AND NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
22. CONTRACTOR SHALL ADJUST UTILITY ELEMENT MEANT TO BE FLUSH WITH GRADE THAT IS AFFECTED BY SITE WORK OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON PLANS OR NOT.
23. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION OF THE CONFLICT.
24. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF ALL GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
25. ELECTRICAL DUCT BANK LOCATION IS SHOWN FOR COORDINATION PURPOSES, REFER TO ELECTRICAL PLANS FOR SECTIONS AND DETAILS OF THE UTILITY DUCT BANK.
26. THE LOCATION, SIZE, DEPTH AND SPECIFICATIONS FOR CONSTRUCTION OF PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY AND APPROVED BY THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE AND ELECTRICAL). FINAL DESIGN AND LOCATIONS AT THE BUILDING WILL BE PROVIDED BY THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE UTILITY CONNECTIONS WITH THE RESPECTIVE COMPANIES PRIOR TO ANY UTILITY CONSTRUCTION.

LAYOUT AND MATERIAL NOTES

1. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS AND SITE CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING OR CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND ALL DETAILS CONTIGUOUS TO THE BUILDING INCLUDING SIDEWALKS, RAMPS, UTILITY ENTRANCE LOCATIONS, WALL PACKS, CONCRETE DOOR PADS, ROOF DRAINS, ETC.
4. ACCESSIBLE CURB RAMPS SHALL BE PER THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD AND THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES, WHICH IS MORE STRINGENT.
5. THE FOLLOWING LAYOUT CRITERIA SHALL CONTROL UNLESS OTHERWISE NOTED ON THE PLAN: ALL DIMENSIONS ARE TO OUTSIDE FACE OF BUILDING. ALL DIMENSIONS ARE TO FACE OF CURB AT GUTTER LINE. ALL DIMENSIONS ARE TO CENTER OF PAVEMENT MARKINGS. ALL TIES TO PROPERTY LINES ARE PERPENDICULAR TO THE PROPERTY LINE UNLESS OTHERWISE NOTED.

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. THE CONSERVATION COMMISSION SHALL BE NOTIFIED, AT LEAST 72 HOURS PRIOR TO ANY LAND DISTURBANCE.
2. A COPY OF THE SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
3. SOIL EROSION AND SEDIMENT CONTROL PRACTICES IN THE PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
4. ALL APPLICABLE SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY DEMOLITION GRADING OPERATIONS AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
5. ALL APPLICABLE SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
6. ALL SOIL EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
7. THE MAINTENANCE OF SOIL EROSION AND SEDIMENT CONTROL MEASURES AND FACILITIES DURING AND IMMEDIATELY AFTER CONSTRUCTION RESTS WITH THE GENERAL CONTRACTOR. UPON ACCEPTANCE OF THE PROJECT, THE OWNER SHALL BECOME RESPONSIBLE FOR MAINTENANCE OF ANY REMAINING MEASURES AND FACILITIES.
8. OFF SITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE ENGINEER.
9. THE CONSERVATION COMMISSION AND/OR ENGINEER MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.
10. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS AT ALL TIMES.
11. THE CONTRACTOR SHALL UTILIZE ALL METHODS NECESSARY TO PREVENT BLOWING AND MOVEMENT OF DUST FROM THE EXPOSED SOIL SURFACES.
12. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
13. A CRUSHED STONE TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ENTRANCE EXISTS. SEE LOCATION DETAIL ON PLAN.
14. ALL CATCH BASIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION AS DETAILED ON THE PLAN, IF APPLICABLE.
15. ALL STORM DRAINAGE OUTLETS SHALL BE PROTECTED AS REQUIRED HEREON BEFORE DISCHARGE POINTS BECOME OPERATIONAL.
16. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
17. LAND AREAS EXPOSED AT ANY ONE TIME AND THE LENGTH OF EXPOSURE SHALL BE KEPT TO A PRACTICAL MINIMUM. THEY SHALL BE LEFT IN A NEAT AND FINISHED APPEARANCE AND PROTECTED FROM EROSION.
18. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN SIXTY (60) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTRIBUTED AREAS SHALL BE MULCHED.
19. ALL CRITICAL AREAS SUBJECT TO EROSION SHALL RECEIVE A TEMPORARY SEEDING AND BE MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS IMMEDIATELY FOLLOWING ROUGH GRADING.
20. IMMEDIATELY AFTER COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, SEED THE STOCKPILE WITH ANNUAL RYE GRASS. STABILIZE TOPSOIL STOCKPILES WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING.
21. SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF WETLANDS, THE FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITIES. THE BASE OF ALL STOCKPILES SHALL BE PROTECTED BY A HAY BALE BARRIER OR SEDIMENT FENCE. LOCATIONS ARE DELINEATED ON THE PLAN.
22. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
23. ALL AREAS NOT STABILIZED BY CONSTRUCTION, SODDING OR LANDSCAPING SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE SEEDING AND MULCHING SPECIFICATIONS.
24. MULCHING IS REQUIRED ON ALL SEEDED AREAS TO INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATIVE COVER.
25. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTRATION DEVICE, THE SEDIMENT FILTER MUST BE CAPABLE OF FILTERING THE SEDIMENT AND BE PLACED SO AS NOT TO CAUSE EROSION OF THE DOWNSTREAM AREA.

GENERAL PLANTING NOTES

1. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN OR THE PLANT MATERIAL WILL BE UNACCEPTABLE. ALL PLANT MATERIAL SHALL BE TRUE TO SPECIES, VARIETY, SIZE AND BE CERTIFIED DISEASE AND INSECT FREE. THE OWNER AND/OR THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO APPROVE ALL PLANT MATERIAL ON SITE PRIOR TO INSTALLATION.
2. ALL PLANT MATERIAL SHALL BE PROPERLY GUYED, STAKED, WRAPPED, AND PLANTED IN CONFORMANCE WITH THE TYPICAL PLANTING DETAILS. GUY WIRES SHALL BE ATTACHED TO THE TREE AT A HEIGHT OF TWO-THIRDS THE HEIGHT OF THE TREE AND SHOULD BE LOCATED AT POINTS SO AS NOT TO SPLIT THE TRUNK OF MULTI-STEMMED TREES. PROVIDE THREE STAKES PER TREE UNLESS NOTED OTHERWISE INSTALL ALL PLANT MATERIAL ON UNDISTURBED GRADE. PROVIDE BURLAP WRAPPING WITH A 50% OVERLAP. CUT AND REMOVE BURLAP FROM TOP ONE-THIRD OF THE ROOT BALL.
3. PROVIDE PLANTING PITS AS INDICATED ON PLANTING DETAILS. BACKFILL PLANTING PITS WITH ONE PART EACH OF TOP SOIL, PEAT MOSS, AND PARENT MATERIAL. IF WET SOIL CONDITIONS EXIST THEN PLANTING PITS SHALL BE EXCAVATED AN ADDITIONAL 12" AND FILLED WITH SAND.
4. NEWLY INSTALLED PLANT MATERIAL SHALL BE WATERED AT THE TIME OF INSTALLATION AND SHALL BE SUBSEQUENTLY FLOODED TWICE WITHIN TWENTY-FOUR (24) HOURS OF PLANTING. REGULAR WATERING SHALL BE PROVIDED TO ENSURE THE ESTABLISHMENT, GROWTH AND SURVIVAL OF ALL PLANTS.
5. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR AFTER THE DATE OF FINAL ACCEPTANCE. ANY PLANT MATERIAL THAT DIES WITHIN THAT TIME PERIOD SHALL BE REMOVED, INCLUDING THE STUMP, AND REPLACED WITH MATERIAL OF SIMILAR SIZE AND SPECIES AT THE EXPENSE OF THE DEVELOPER. THE REPLACED PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR AFTER THE REPLACEMENT DATE.
6. THE LANDSCAPE CONTRACTOR SHALL PROVIDE A MINIMUM 4" LAYER OF TOPSOIL IN ALL LAWN AREAS AND A MINIMUM OF 6" OF TOPSOIL IN ALL PLANTING AREAS. A FULL SOIL ANALYSIS SHALL BE CONDUCTED AFTER CONSTRUCTION AND PRIOR TO PLANTING TO DETERMINE THE EXTENT OF SOIL AMENDMENT REQUIRED.
7. ALL DISTURBED LAWN AREAS SHALL BE STABILIZED WITH EITHER SOD OR SEED AS INDICATED ON THE LANDSCAPE PLANS. SEED SHALL CONSIST OF THE MIXTURE LISTED IN THE GENERAL SEEDING NOTES. ALL DISTURBED LAWN AREAS SHALL BE TOP SOILED, LIMED, FERTILIZED, AND FINE GRADED PRIOR TO LAWN INSTALLATION.
8. ALL PLANTING BEDS SHALL RECEIVE 3" OF SHREDDED PINE, CEDAR OR HEMLOCK BARK.
9. ALL SHRUB MASSES SHALL BE PLANTED IN CONTINUOUS MULCHED BEDS.
10. ALL TREES ARE TO BE GUYED, 3 EACH, UNLESS OTHERWISE NOTED ON PLAN.
11. ALL DECIDUOUS TREES ARE TO BE WRAPPED, WITH TREE WRAP, UP TO THE FIRST BRANCHING AND SECURED.
12. THE LANDSCAPE CONTRACTOR IS TO PERFORM ALL CONTRACTED WORK IN A REASONABLE PERIOD OF CONTINUOUS WORK.
13. THE LANDSCAPE CONTRACTOR IS TO MAINTAIN PLANT MATERIAL WHILE THE PROJECT IS UNDERWAY AND FOR A PERIOD OF TWO WEEKS AFTER THE COMPLETION OF THE PROJECT UNLESS OTHERWISE SPECIFIED.
14. THE CONTRACTOR IS TO CLEAN UP AND REMOVE ANY DEBRIS FROM THE SITE, CAUSED BY THE LANDSCAPE CONTRACTOR.

EXISTING		LEGEND		PROPOSED	
	CONTOUR LINE		CONTOUR LINE		CONTOUR LINE
	SPOT GRADE		SPOT GRADE		SPOT GRADE
	EDGE OF PAVEMENT		EDGE OF PAVEMENT		EDGE OF PAVEMENT
	VERTICAL GRANITE CURB		VERTICAL GRANITE CURB		VERTICAL GRANITE CURB
	SLOPED GRANITE CURB		SLOPED GRANITE CURB		SLOPED GRANITE CURB
	VERTICAL CONCRETE CURB		VERTICAL CONCRETE CURB		VERTICAL CONCRETE CURB
	BITUMINOUS CONCRETE CURB		BITUMINOUS CONCRETE CURB		BITUMINOUS CONCRETE CURB
	CAPE COD BERM		CAPE COD BERM		CAPE COD BERM
	STONE WALL		STONE WALL		STONE WALL
	CHAIN LINK FENCE		CHAIN LINK FENCE		CHAIN LINK FENCE
	IRON FENCE		IRON FENCE		IRON FENCE
	POST & RAIL FENCE		POST & RAIL FENCE		POST & RAIL FENCE
	STOCKADE FENCE		STOCKADE FENCE		STOCKADE FENCE
	GUARD RAIL		GUARD RAIL		GUARD RAIL
	HAY BALES		HAY BALES		HAY BALES
	WATER LINE		WATER LINE		WATER LINE
	FIRE HYDRANT		FIRE HYDRANT		FIRE HYDRANT
	POST INDICATOR VALVE		POST INDICATOR VALVE		POST INDICATOR VALVE
	WATER GATE		WATER GATE		WATER GATE
	WATER METER PIT		WATER METER PIT		WATER METER PIT
	IRRIGATION HAND HOLE		IRRIGATION HAND HOLE		IRRIGATION HAND HOLE
	WELL		WELL		WELL
	SEWER LINE		SEWER LINE		SEWER LINE
	SEWER MANHOLE		SEWER MANHOLE		SEWER MANHOLE
	GAS LINE		GAS LINE		GAS LINE
	GAS METER		GAS METER		GAS METER
	GAS GATE		GAS GATE		GAS GATE
	DRAIN LINE		DRAIN LINE		DRAIN LINE
	DRAIN MANHOLE		DRAIN MANHOLE		DRAIN MANHOLE
	CATCH BASIN		CATCH BASIN		CATCH BASIN
	OVERHEAD WIRES		OVERHEAD WIRES		OVERHEAD WIRES
	ELECTRIC, TELEPHONE & CABLE		ELECTRIC, TELEPHONE & CABLE		ELECTRIC, TELEPHONE & CABLE
	UTILITY POLE		UTILITY POLE		UTILITY POLE
	GUY WIRE		GUY WIRE		GUY WIRE
	BORDERING VEGETATED WETLANDS		BORDERING VEGETATED WETLANDS		BORDERING VEGETATED WETLANDS
	STREAM		STREAM		STREAM
	25' WETLAND BUFFER		25' WETLAND BUFFER		25' WETLAND BUFFER
	100' WETLAND BUFFER		100' WETLAND BUFFER		100' WETLAND BUFFER
	WETLAND FLAG		WETLAND FLAG		WETLAND FLAG

REVISIONS

1	9/13/19	CONSERVATION COMMENTS
2	10/15/19	PHASE I AND II
3	1/10/20	CONSERVATION COMMENTS
4	6/26/20	CONSERVATION COMMENTS
5	11/3/20	PLANNING COMMENTS



www.FarlandCorp.com

401 COUNTY STREET  
NEW BEDFORD, MA 02740  
P.508.717.3479  
OFFICES IN:  
●TAUNTON  
●MARLBOROUGH  
●WARWICK, RI

DRAWN BY: MJW

DESIGNED BY: CAF

CHECKED BY: CAF

SITE PLAN

— 100 DUCHAINE BOULEVARD —  
ASSESSORS MAP 133 LOT 67  
ASSESSORS MAP 134 LOTS 5 & 462  
NEW BEDFORD, MASSACHUSETTS

PREPARED FOR:  
PARALLEL PRODUCTS OF NEW ENGLAND  
401 INDUSTRY ROAD  
LOUISVILLE, KY 40208

JULY 3, 2019

SCALE: AS NOTED

JOB NO. 15-500.2

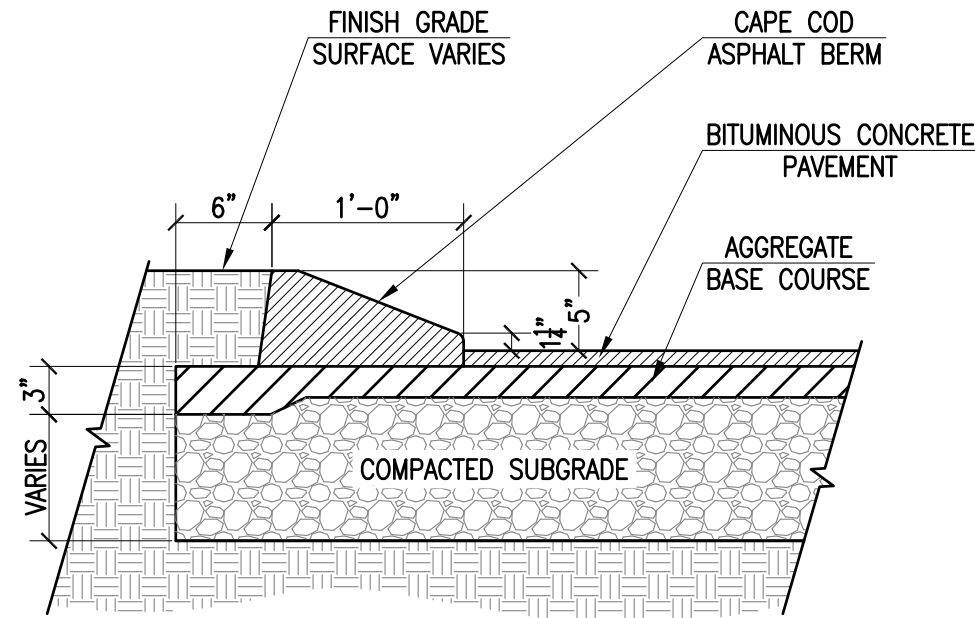
LATEST REVISION:  
NOVEMBER 3, 2020

NOTES & LEGEND

SHEET 20 OF 26

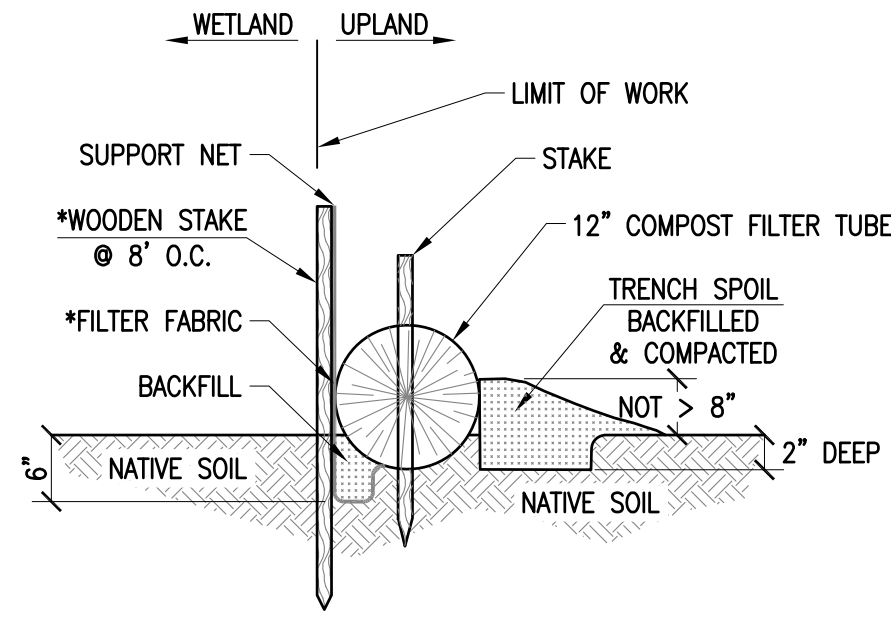


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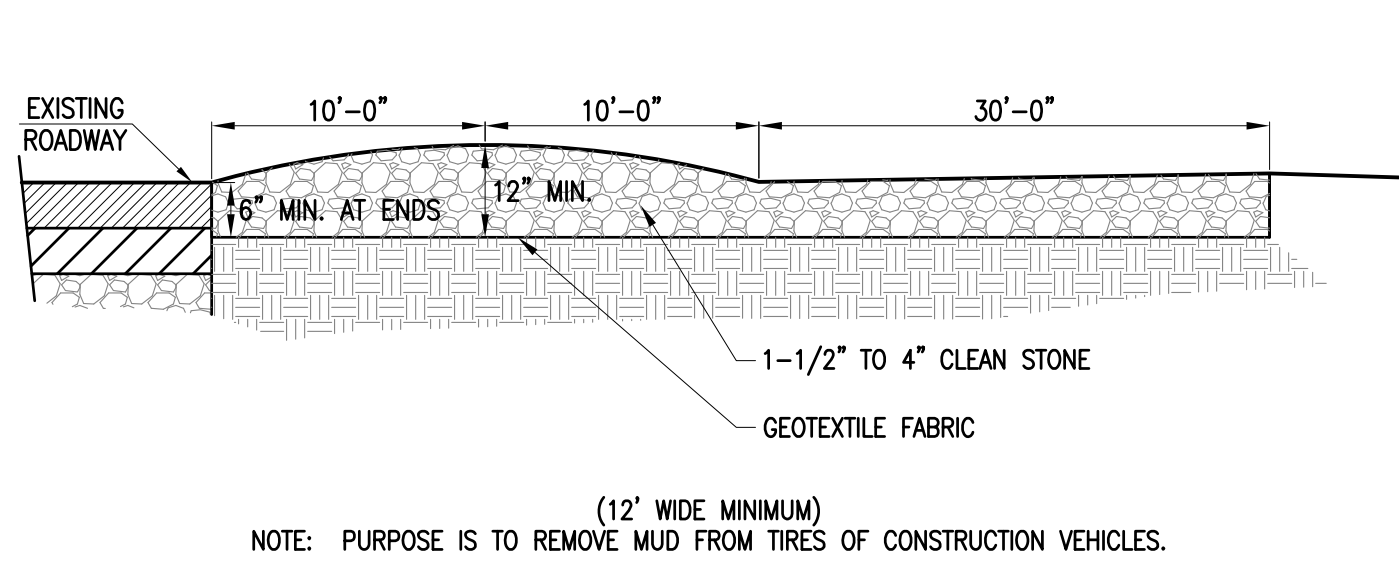
BITUMINOUS CONCRETE CAPE COD BERM

NOT TO SCALE



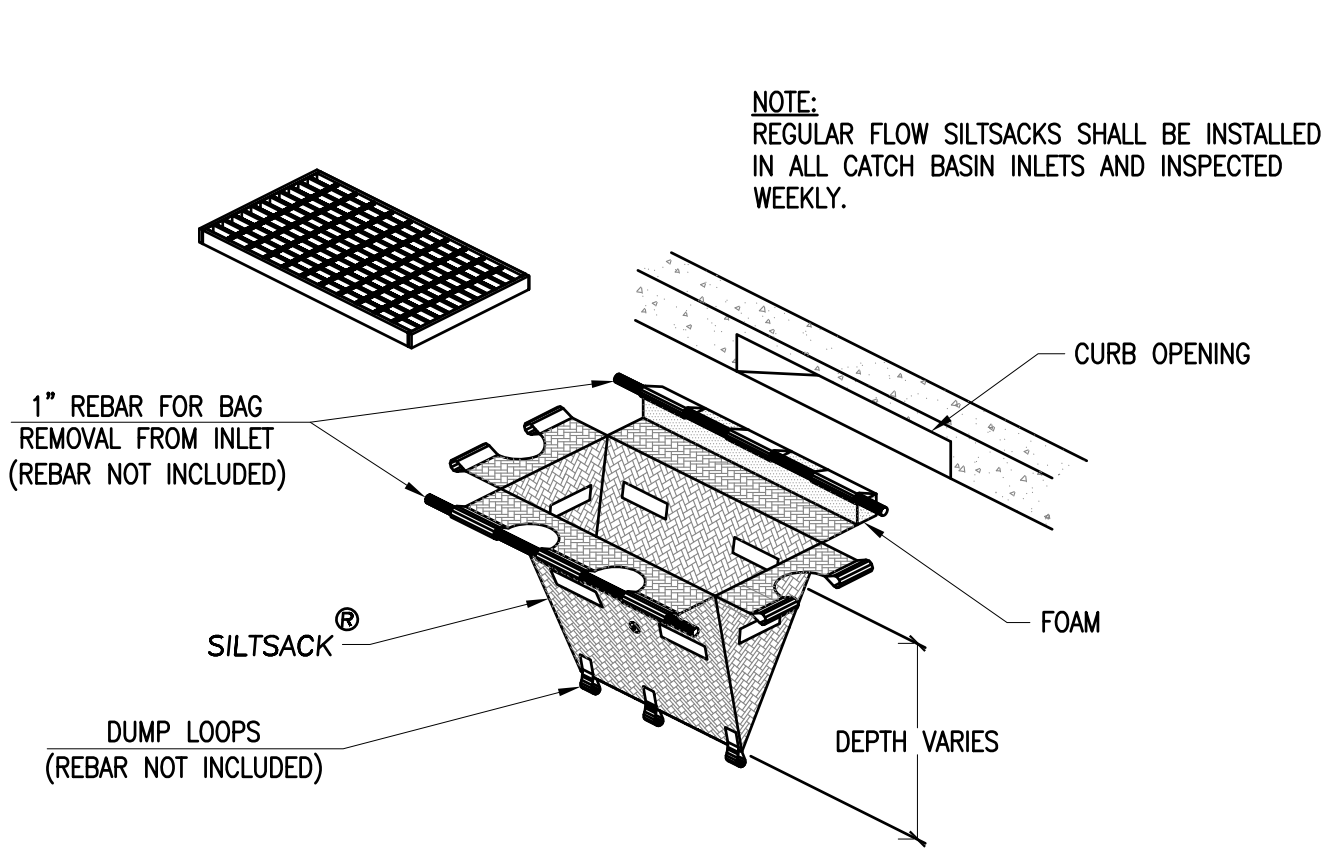
STAKED 12" COMPOST FILTER TUBE WITH SILT FENCE

NOT TO SCALE



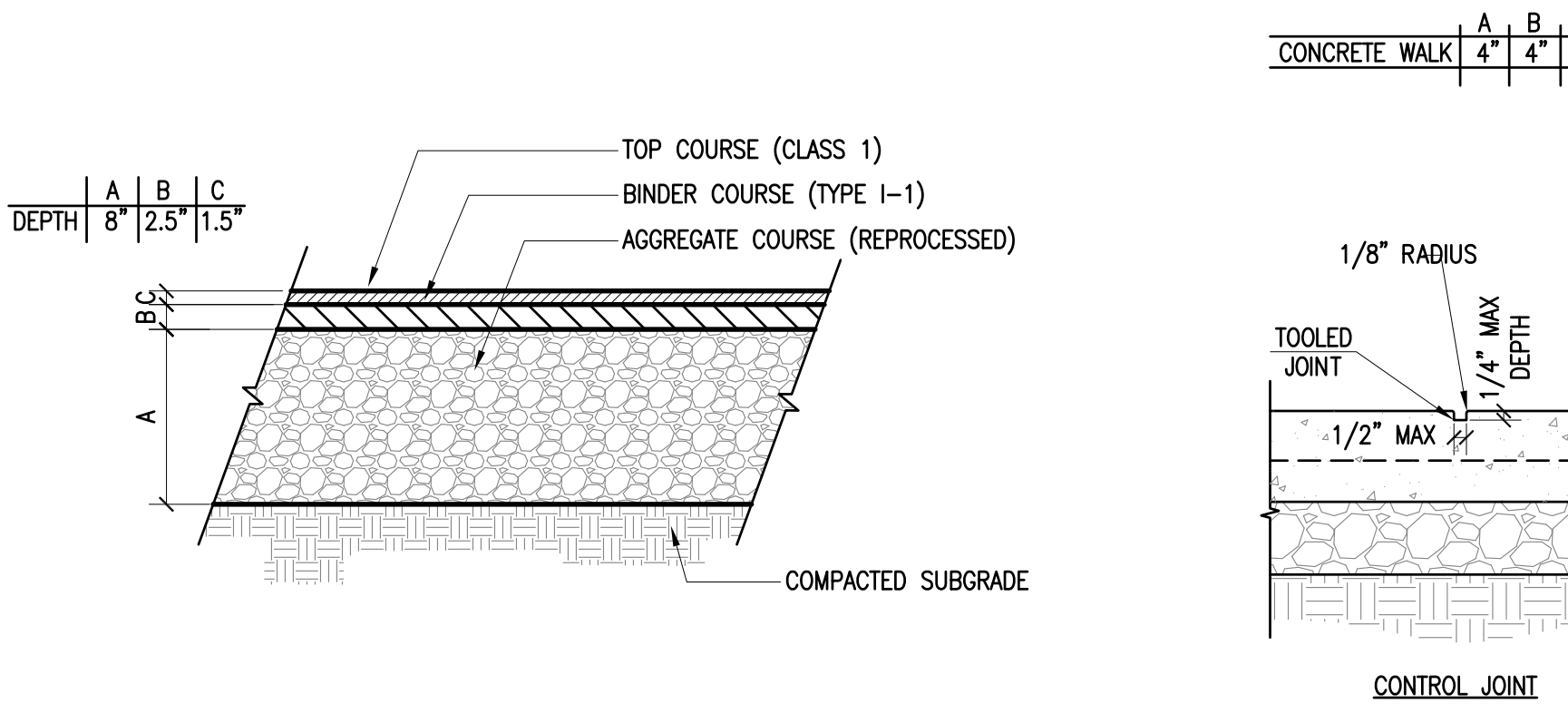
TEMPORARY CONSTRUCTION ENTRANCE

NOT TO SCALE



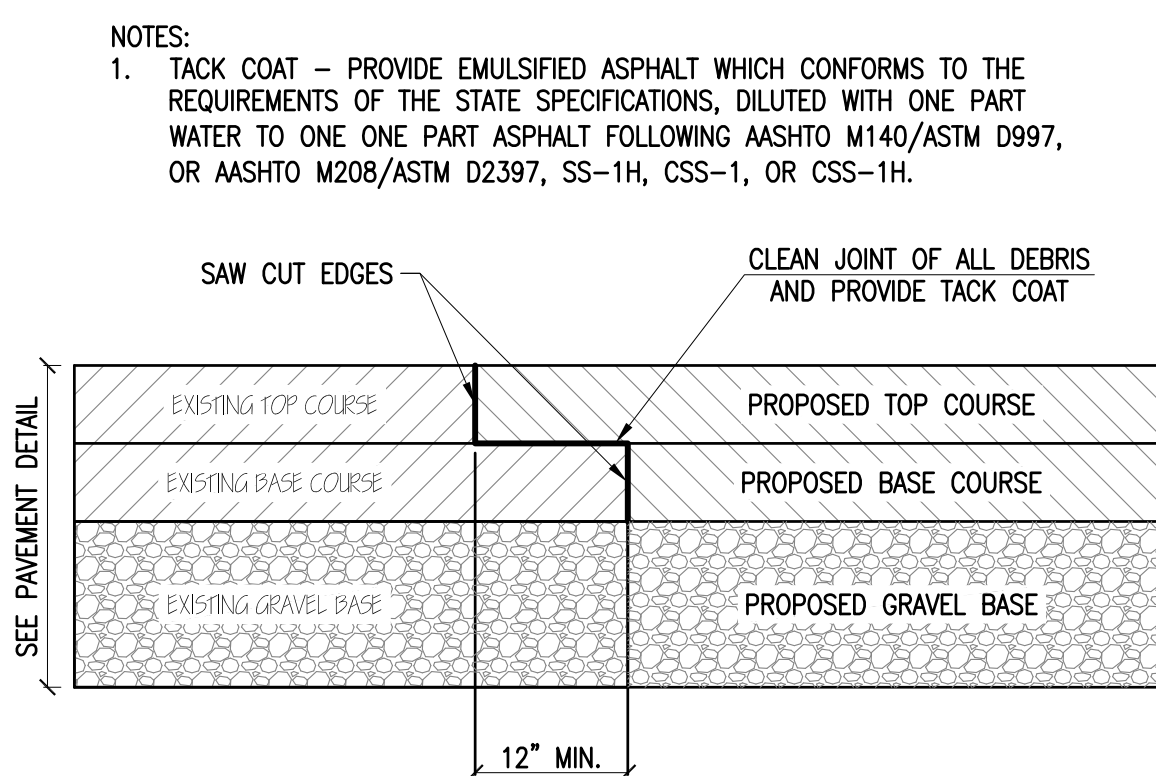
REGULAR FLOW SILTSACK®

NOT TO SCALE



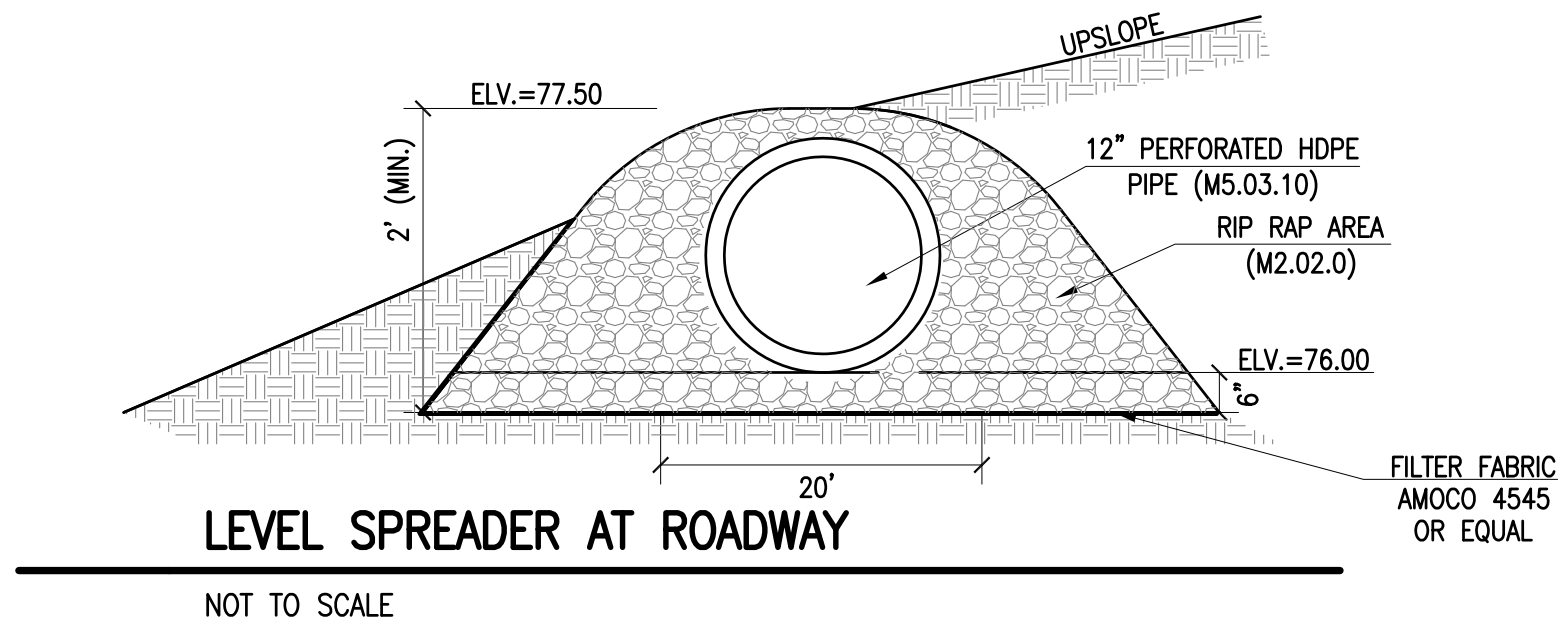
CONCRETE PAVEMENT SIDEWALK

NOT TO SCALE



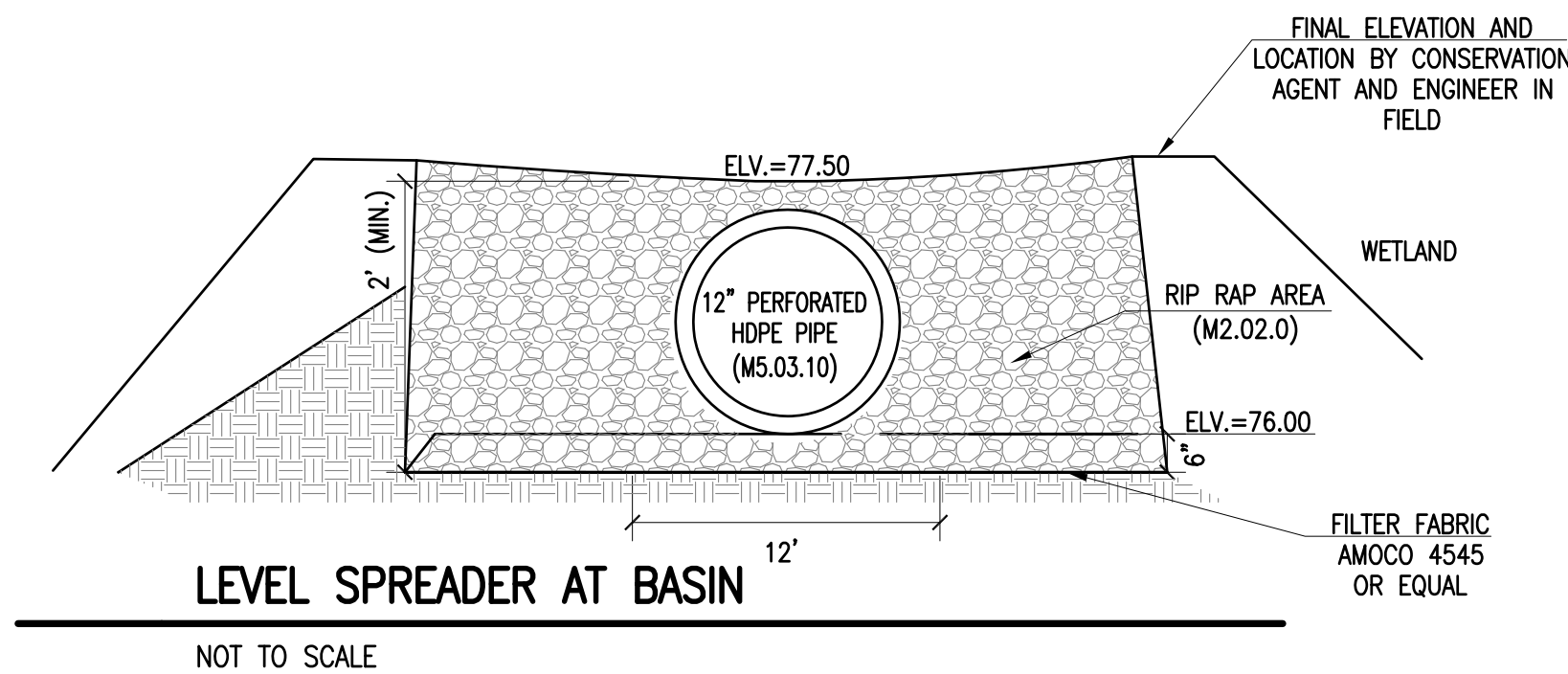
PAVEMENT SAWCUT KEY DETAIL

NOT TO SCALE



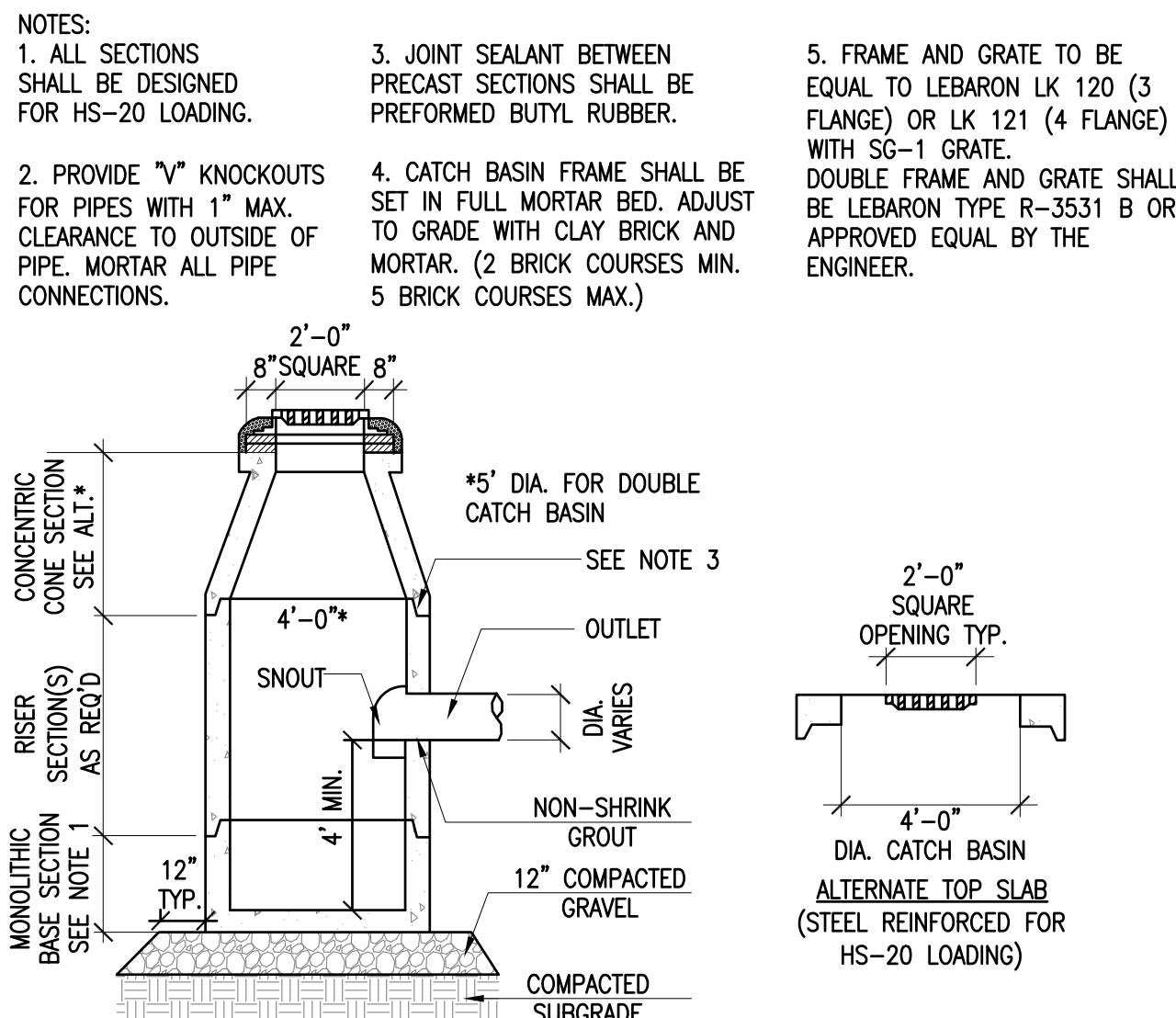
LEVEL SPREADER AT ROADWAY

NOT TO SCALE



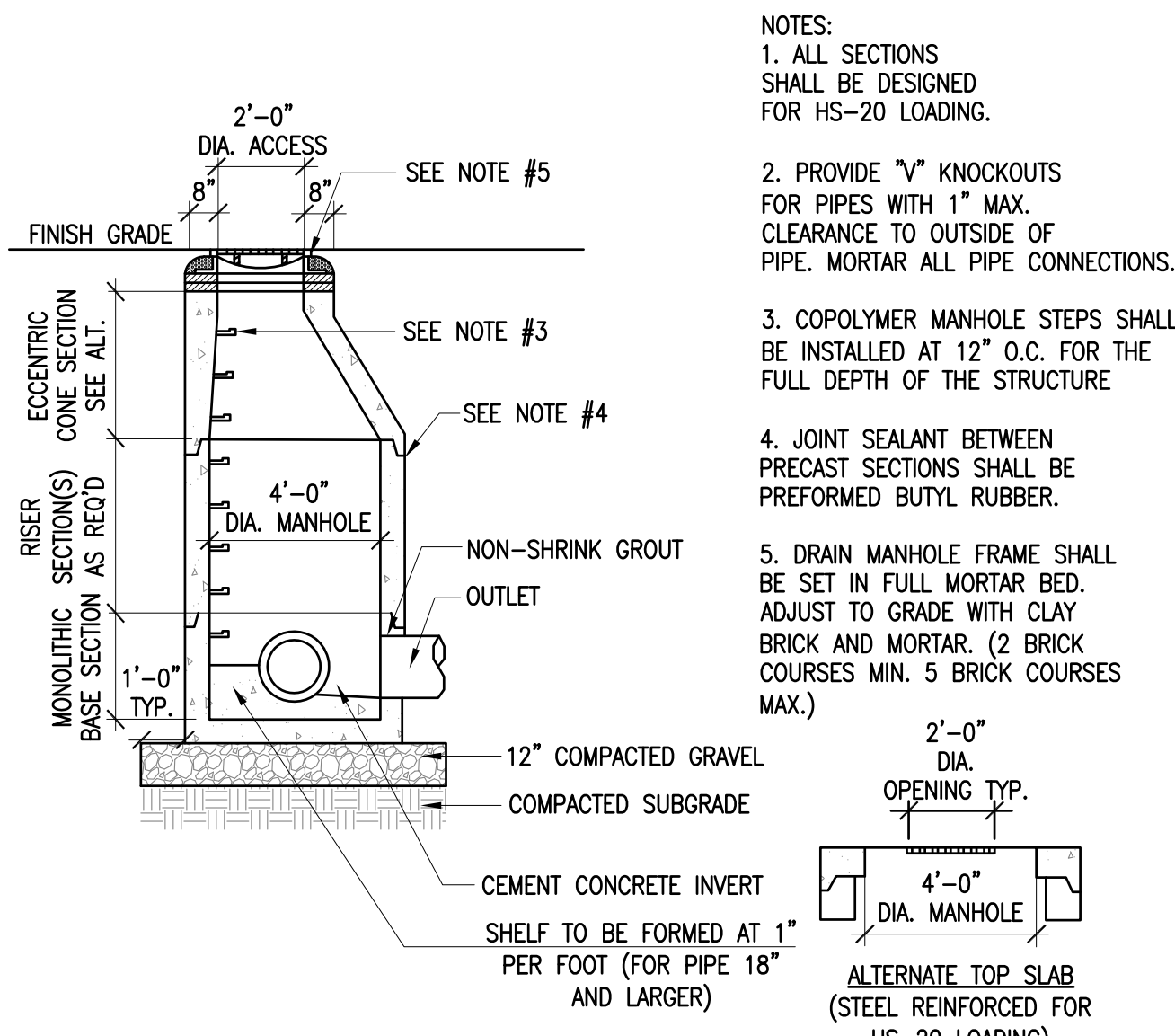
LEVEL SPREADER AT BASIN

NOT TO SCALE



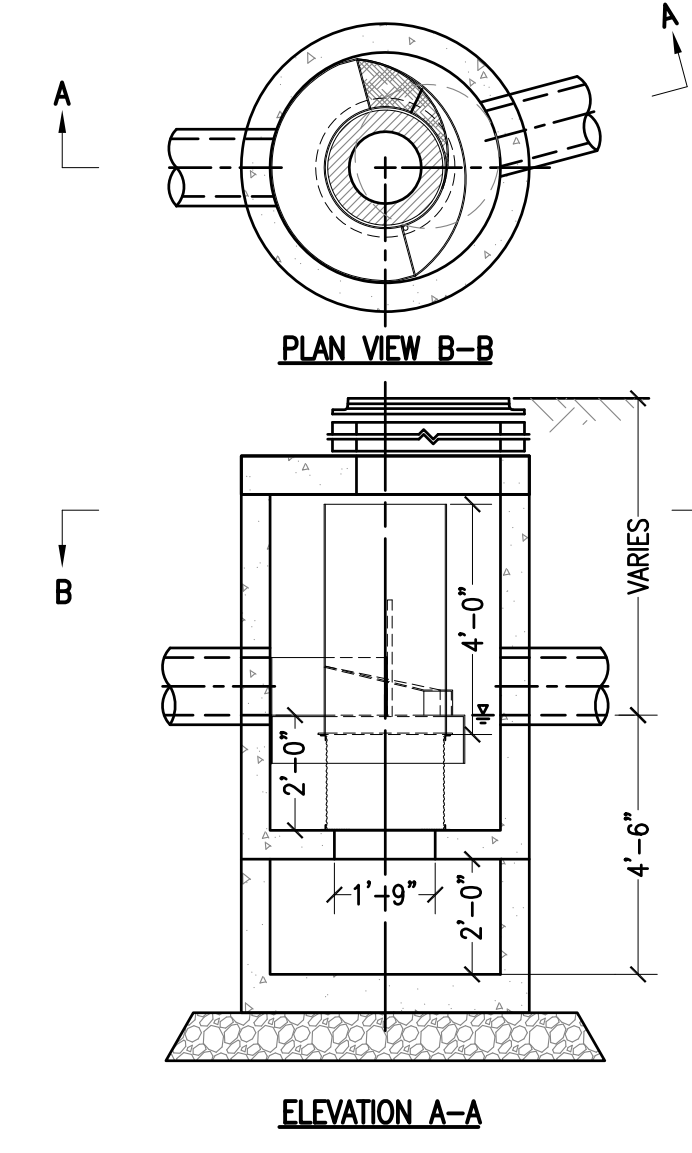
CATCH BASIN

NOT TO SCALE



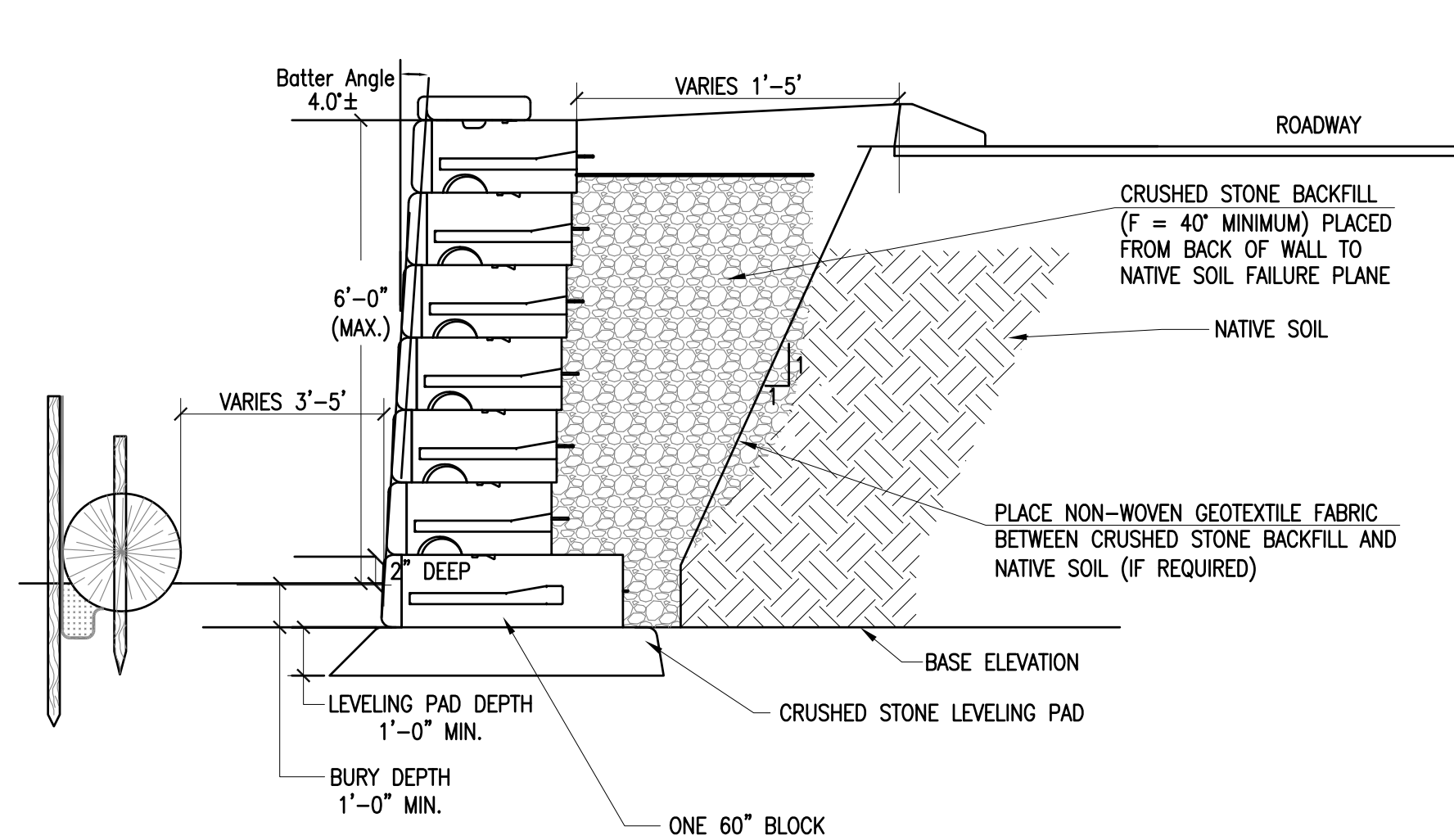
DRAIN MANHOLE

NOT TO SCALE



CONTECH CDS WATER QUALITY UNIT

NOT TO SCALE



"REDI-ROCK" 12' GRAVITY WALL SECTION  
W/ ONE 60" & 41" GRAVITY BLOCKS (ROADWAY AREAS)

FINAL DESIGN TO BE PROVIDED BY "REDI-ROCK"  
NOT TO SCALE

REVISIONS

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UNIVERSITY OF MASSACHUSETTS  
CHRISTIAN ALBERT FARLAND  
No. 47544  
CIVIL  
REGISTERED PROFESSIONAL

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NEW BEDFORD, MA 02740  
P.508.717.3479  
OFFICES IN:  
•TAUNTON  
•MARLBOROUGH  
•WARWICK, RI

DRAWN BY: MJW  
DESIGNED BY: CAF  
CHECKED BY: CAF

SITE PLAN

100 DUCHAINE BOULEVARD  
ASSESSORS MAP 133 LOT 67  
ASSESSORS MAP 134 LOTS 5 & 462  
NEW BEDFORD, MASSACHUSETTS

PARALLEL PRODUCTS OF NEW ENGLAND  
401 INDUSTRY ROAD  
LOUISVILLE, KY 40208

PREPARED FOR:

JULY 3, 2019

SCALE: AS NOTED

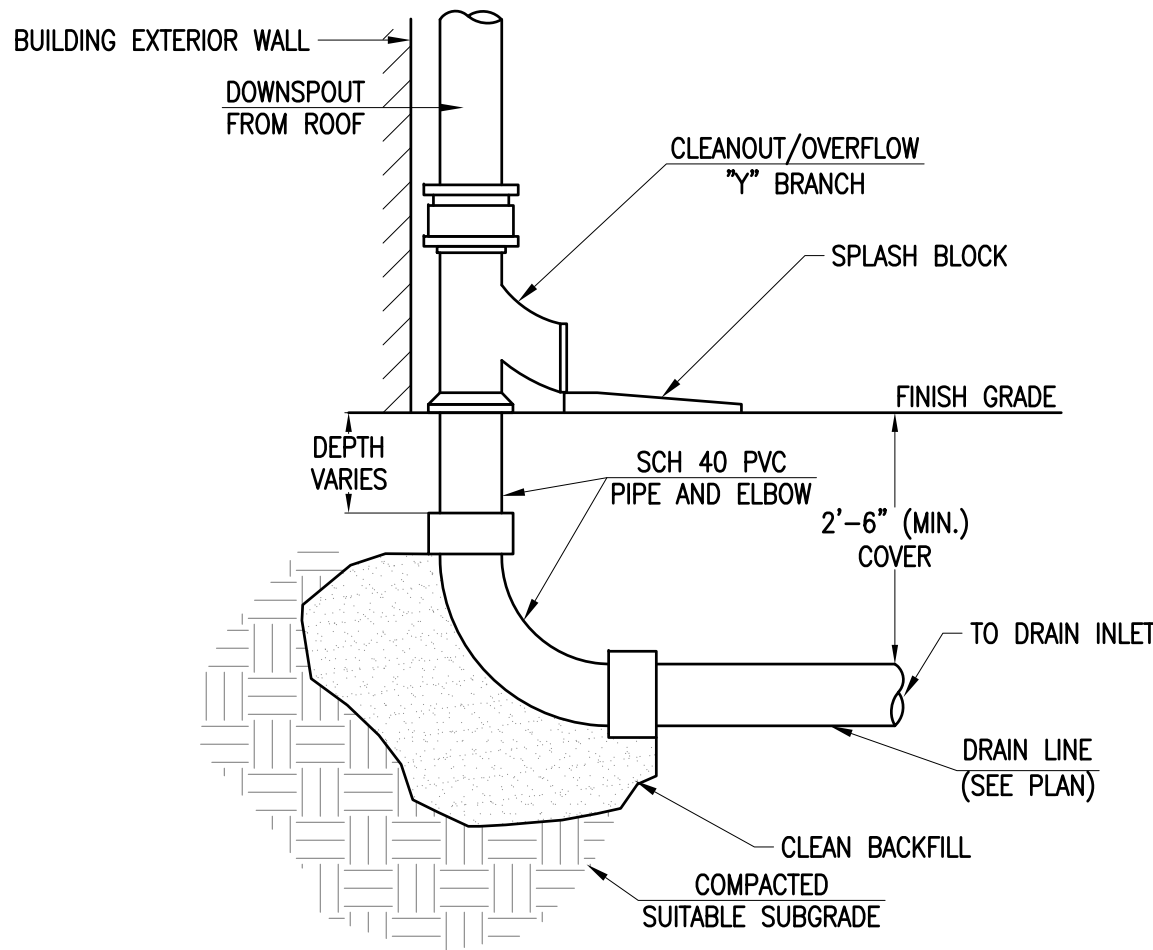
JOB NO. 15-500.2

LATEST REVISION:  
NOVEMBER 3, 2020

DETAILS

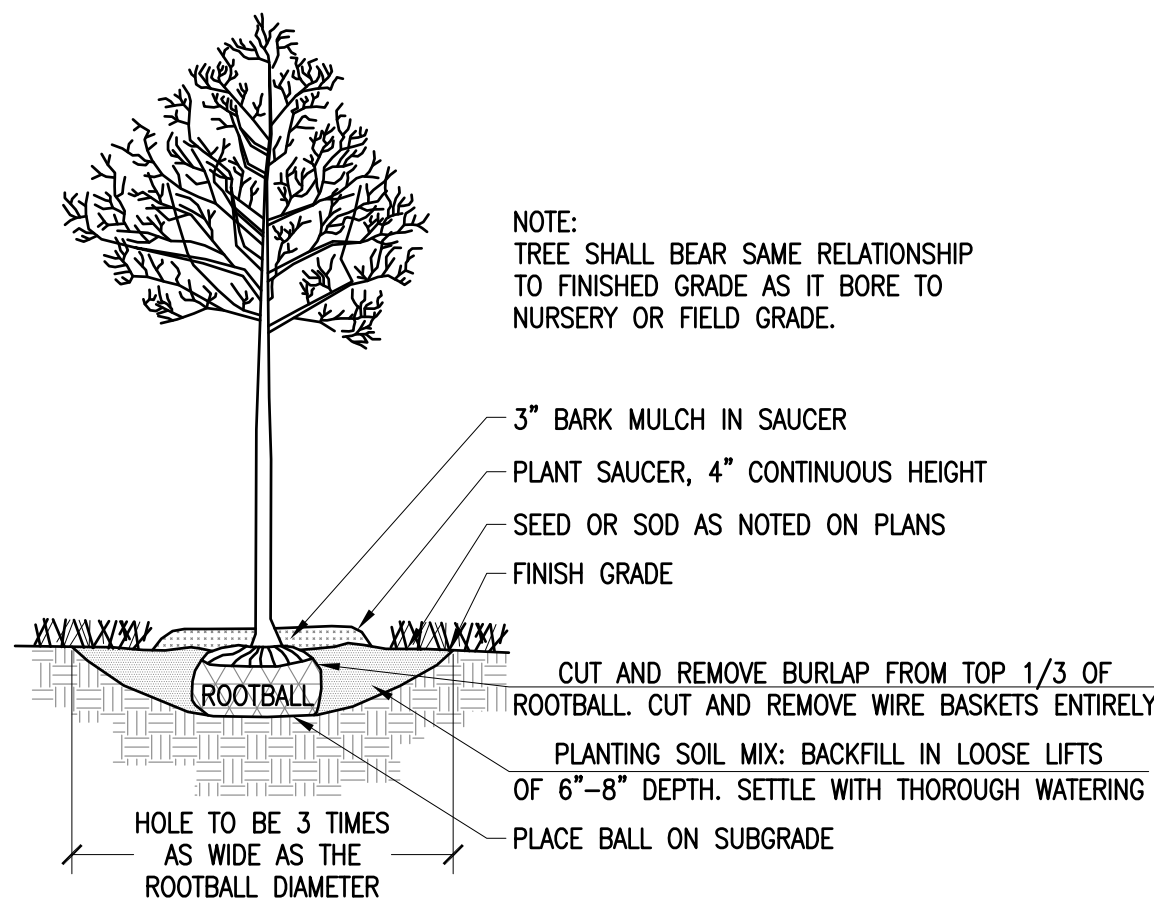
SHEET 21 OF 26





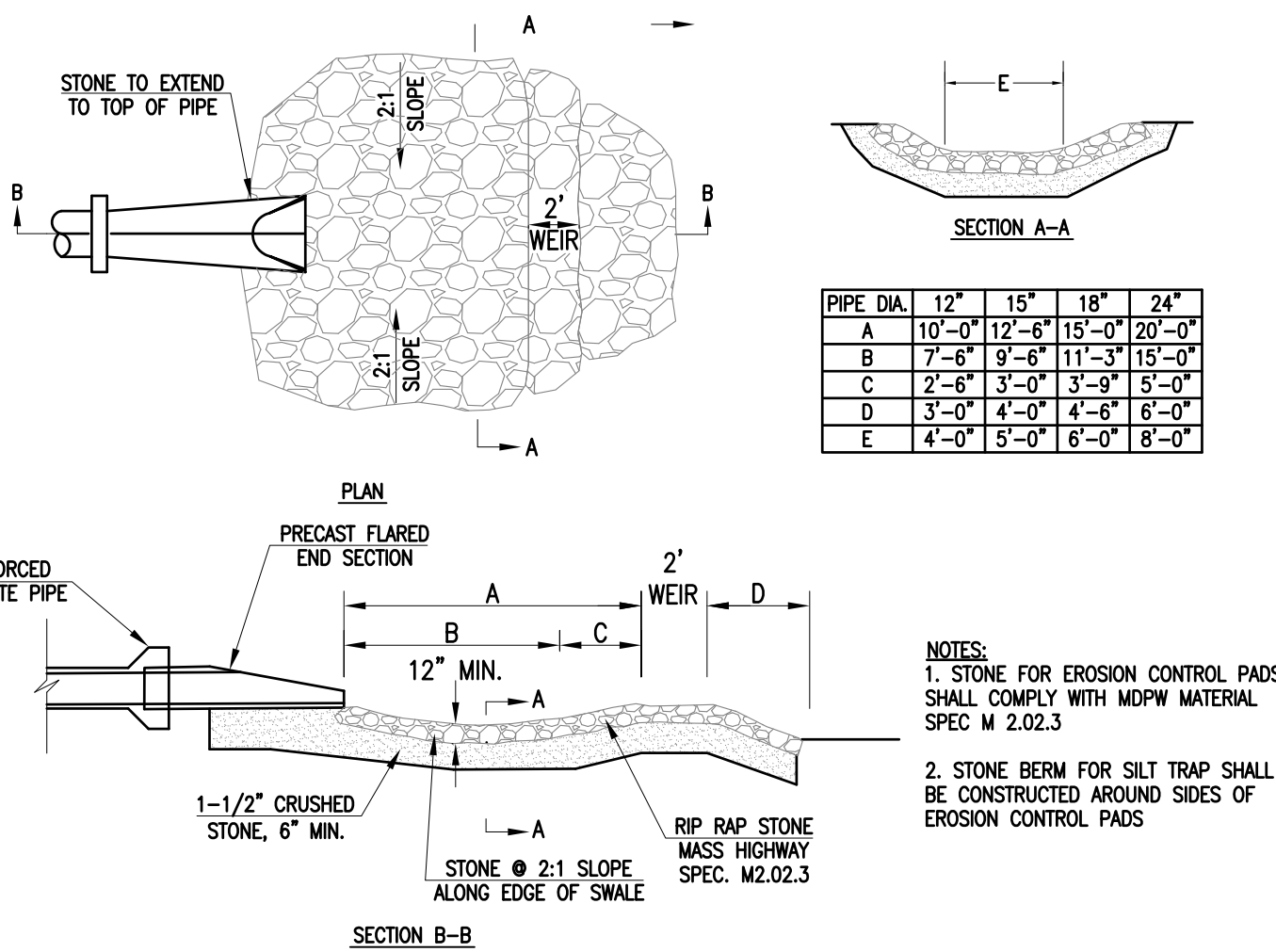
DOWNSPOUT CONNECTION FROM ROOF

NOT TO SCALE



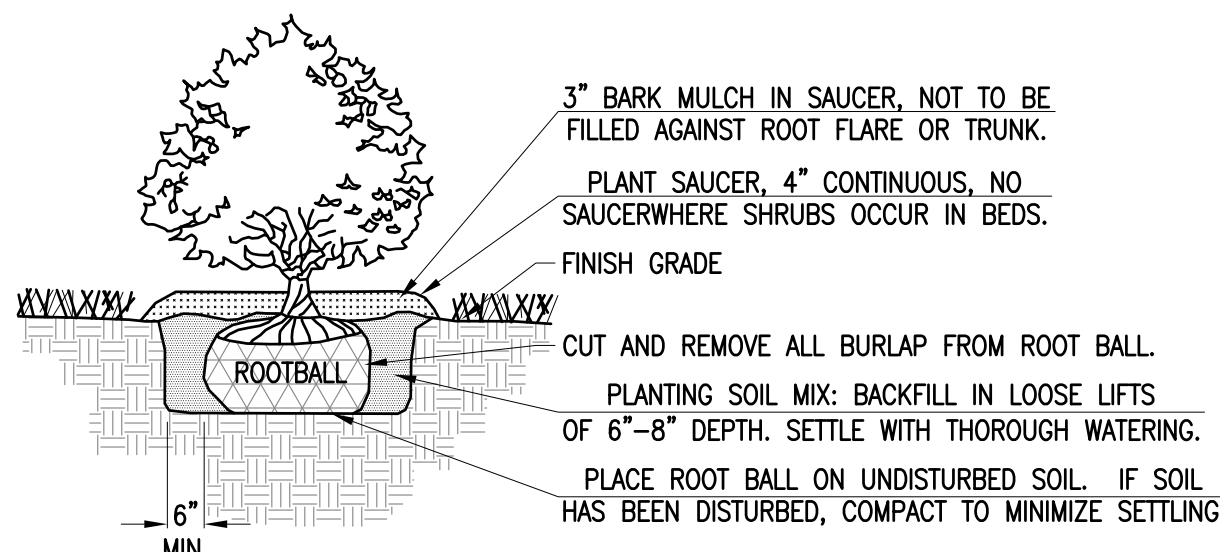
TREE PLANTING

NOT TO SCALE



FLARED END OUTLET

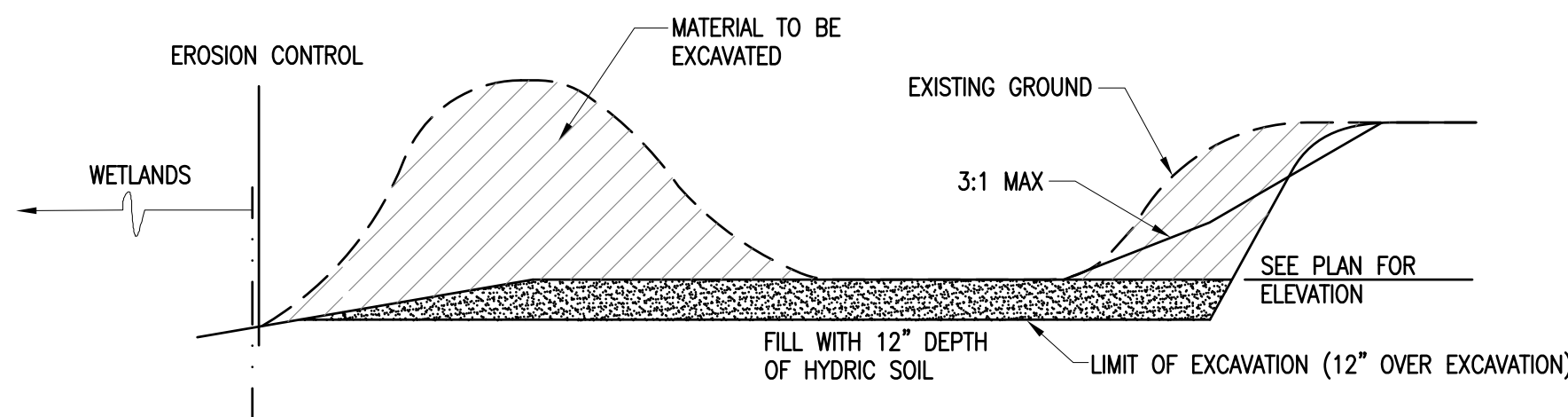
NOT TO SCALE



- NOTES:
- SHRUB SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE TO NURSERY OR FIELD GRADE.
  - WHERE SHRUBS OCCUR IN GROUPINGS IN PLANT BEDS, PROVIDE 2' DEEP CONTINUOUS LOAM BED.

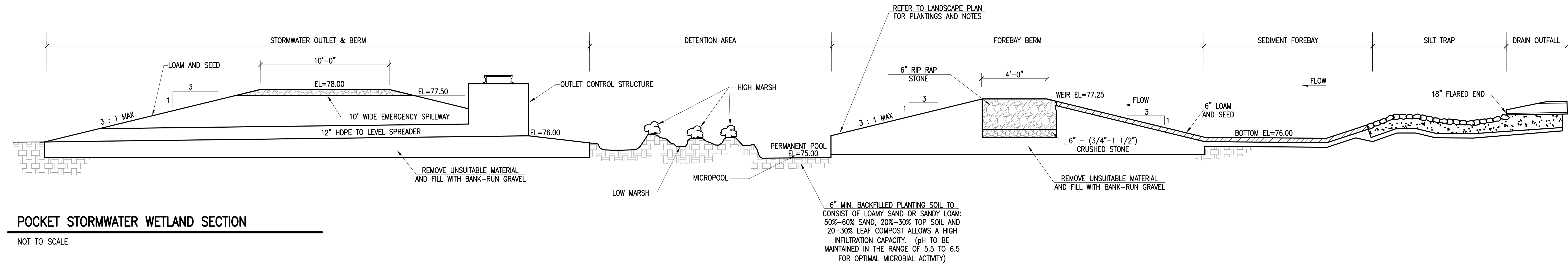
SHRUB PLANTING

NOT TO SCALE



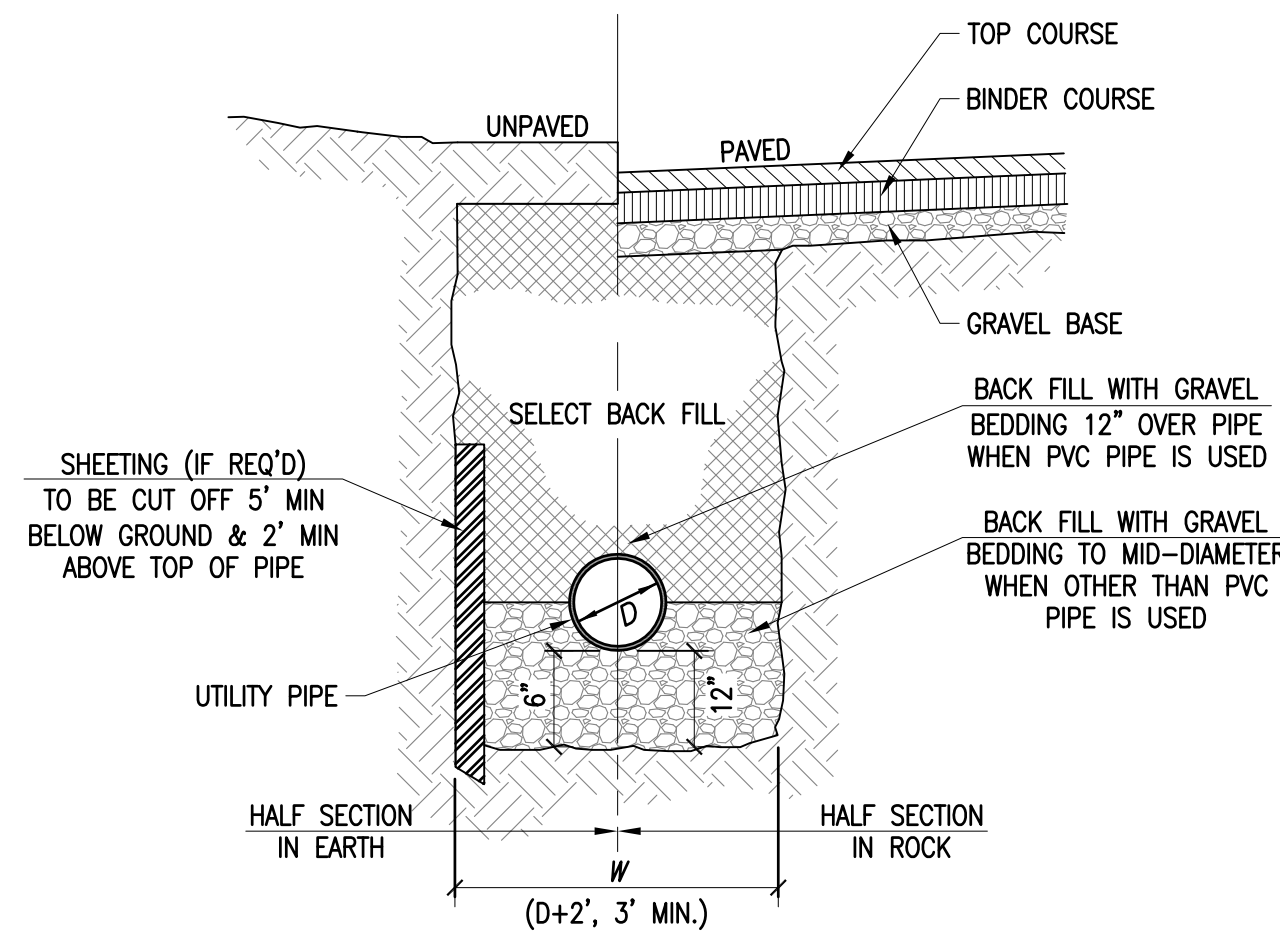
SCHEMATIC CROSS SECTION OF REPLICATION AREA EARTHWORK

NOT TO SCALE



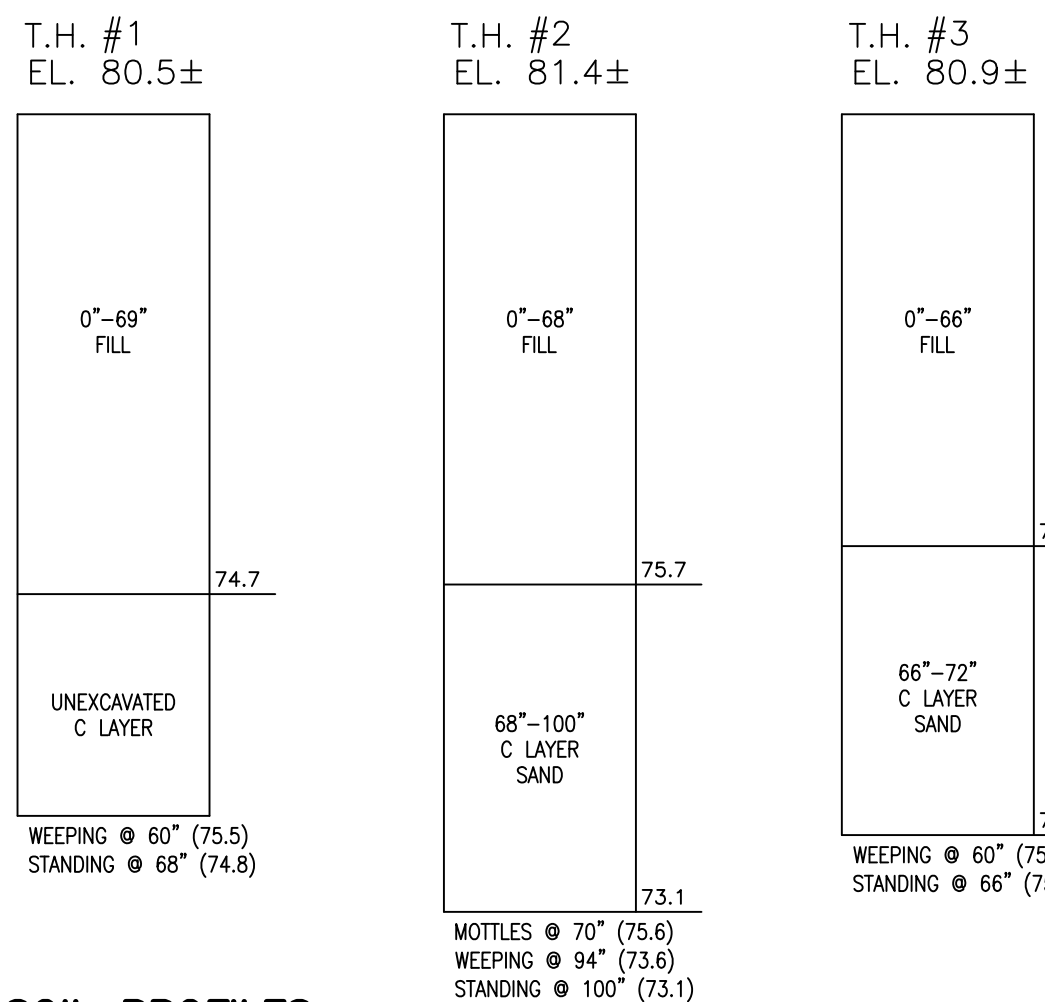
POCKET STORMWATER WETLAND SECTION

NOT TO SCALE



UTILITY TRENCH

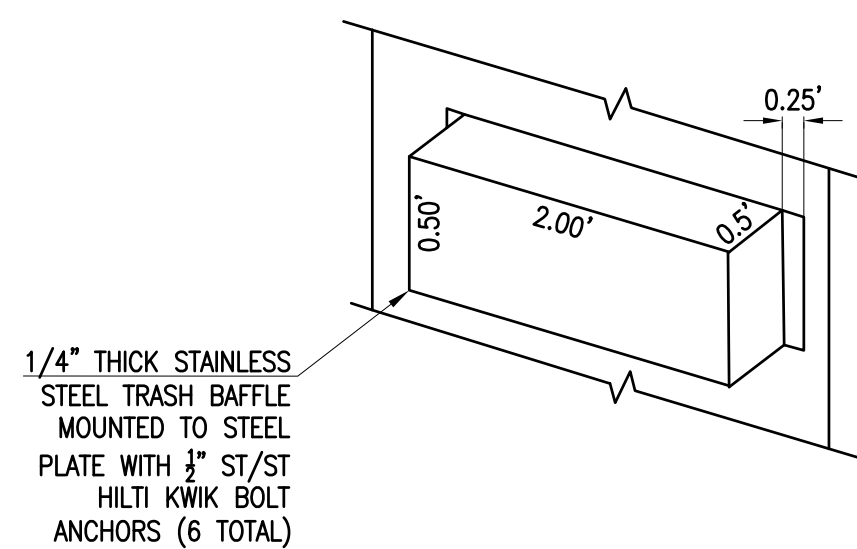
NOT TO SCALE



SOIL PROFILES

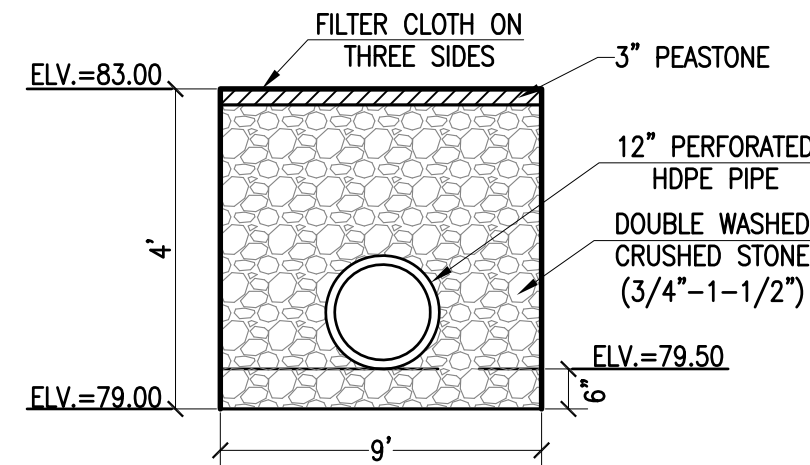
NOT TO SCALE

NOT TO SCALE



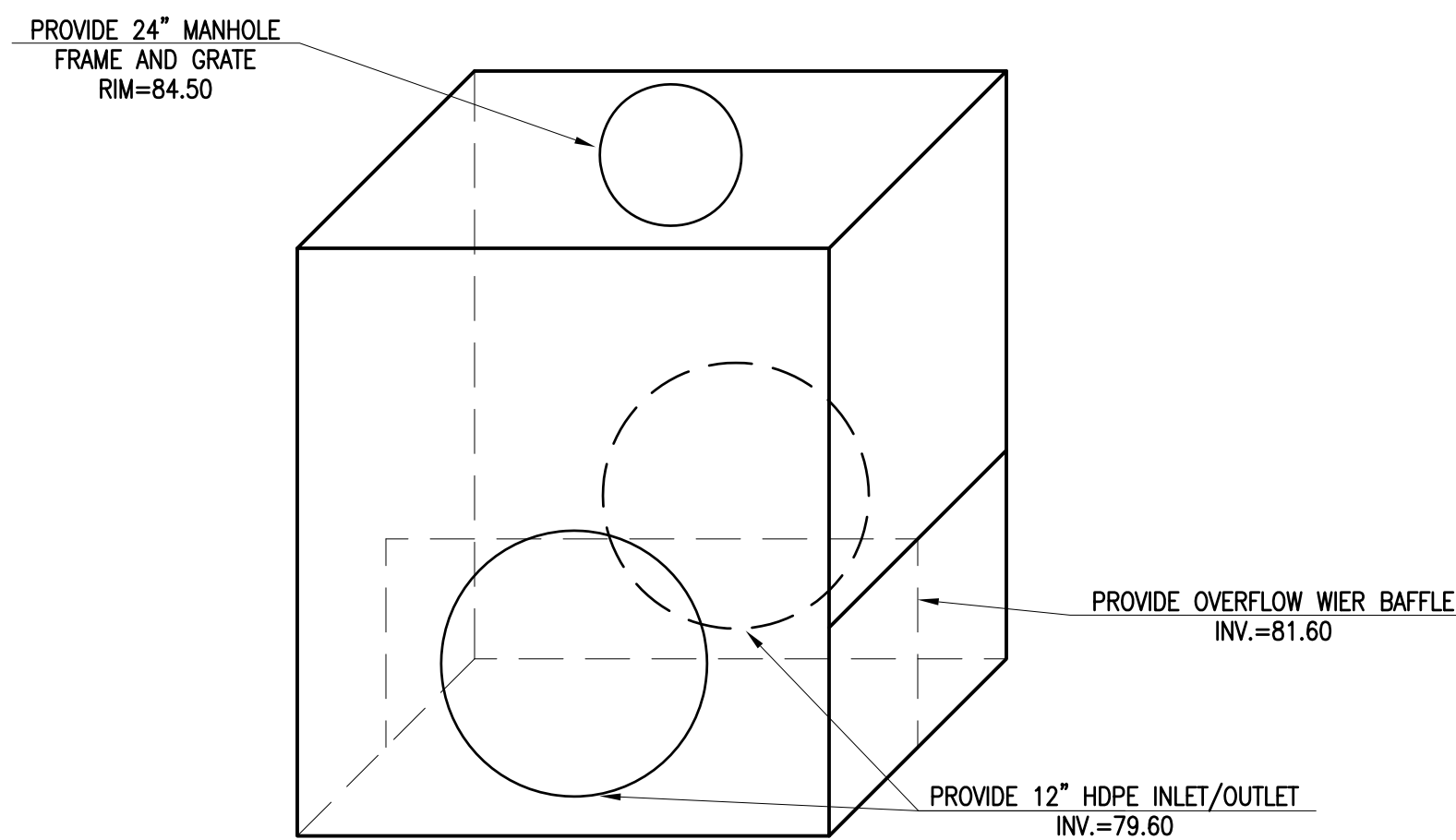
TRASH BAFFLE DETAIL

NOT TO SCALE



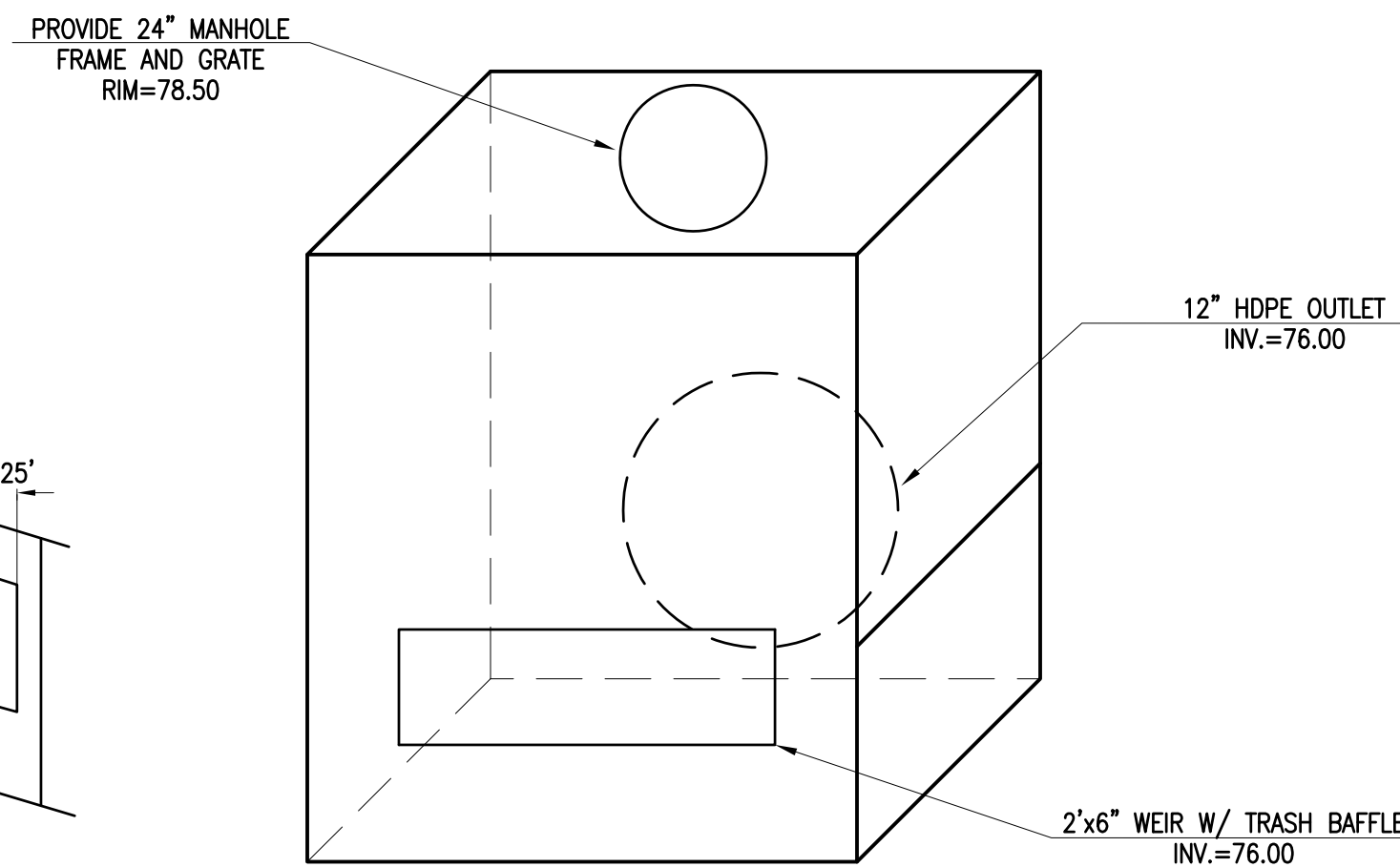
INFILTRATION TRENCH

NOT TO SCALE



PRECAST CONCRETE OUTLET CONTROL STRUCTURE #1

NOT TO SCALE



PRECAST CONCRETE OUTLET CONTROL STRUCTURE #2

NOT TO SCALE

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DETAILS CONT.

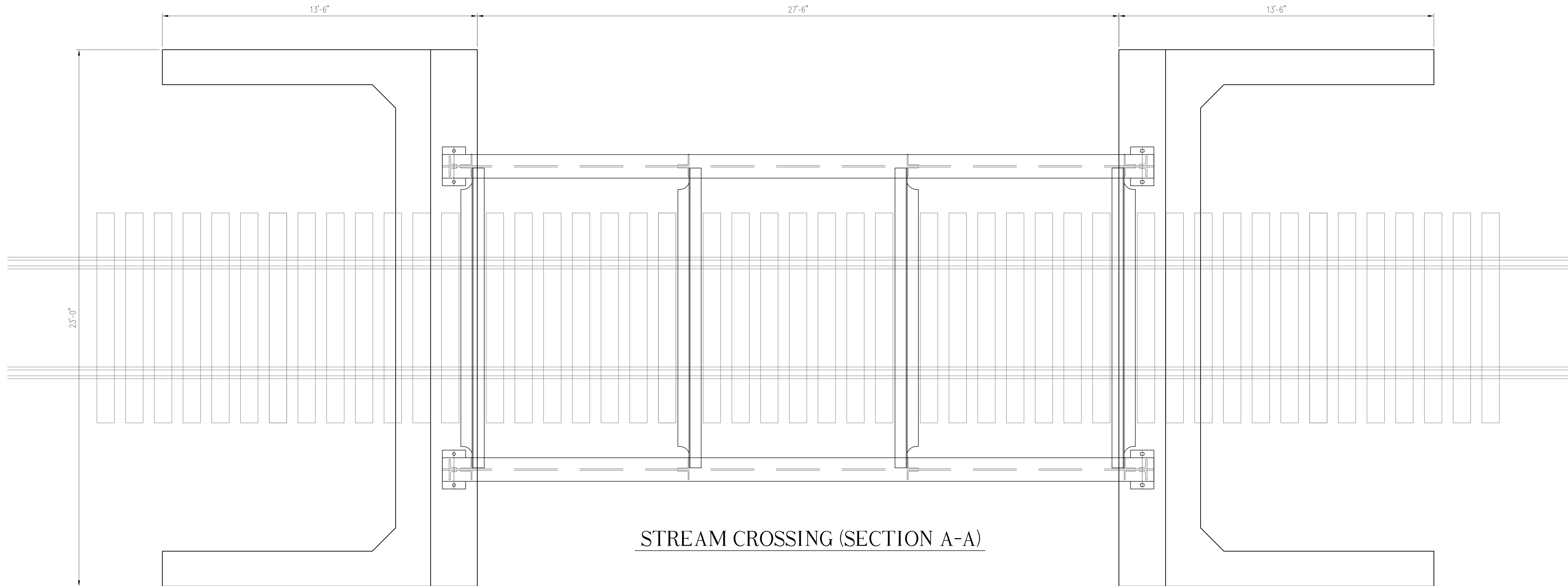
SHEET 22 OF 26



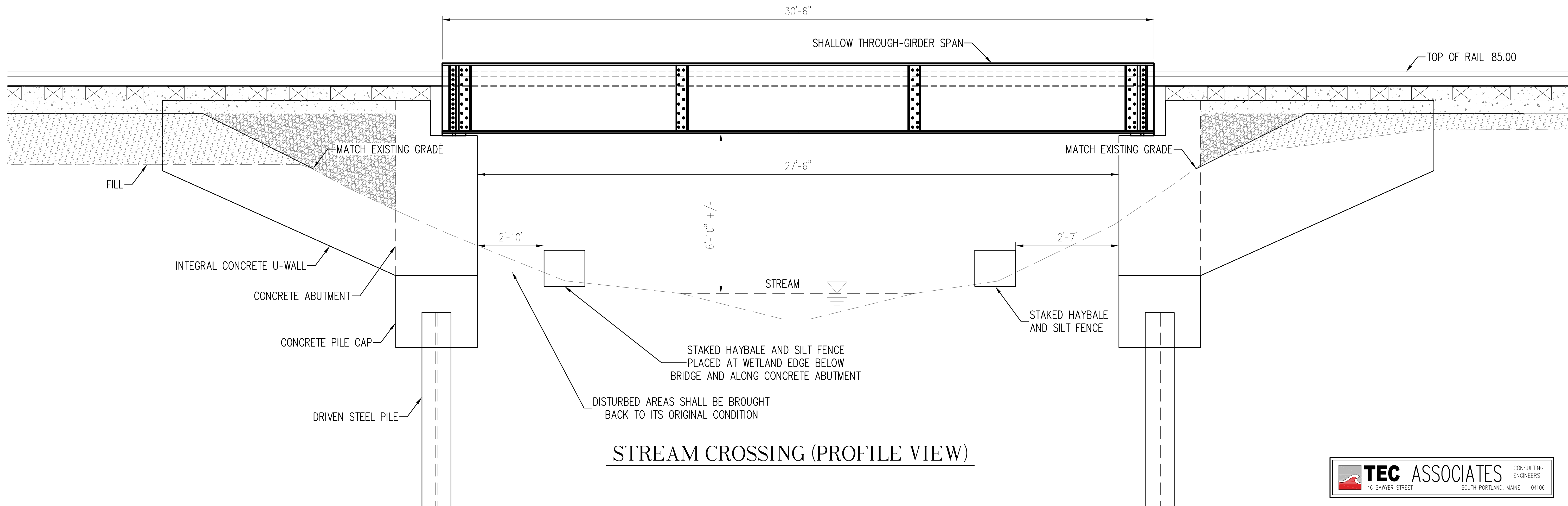




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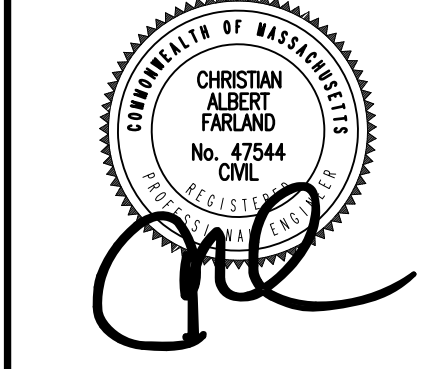
STREAM CROSSING (SECTION A-A)



STREAM CROSSING (PROFILE VIEW)



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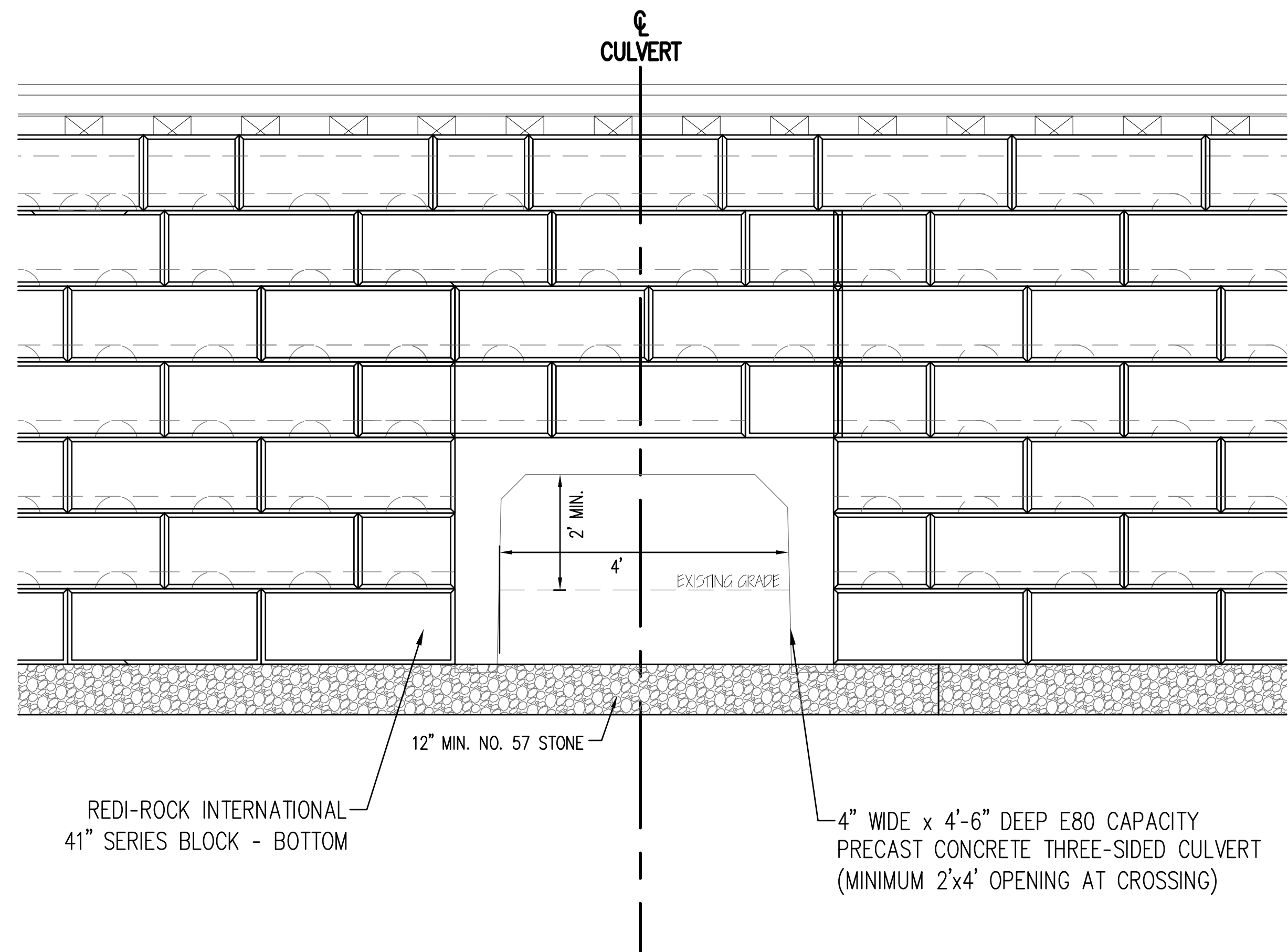
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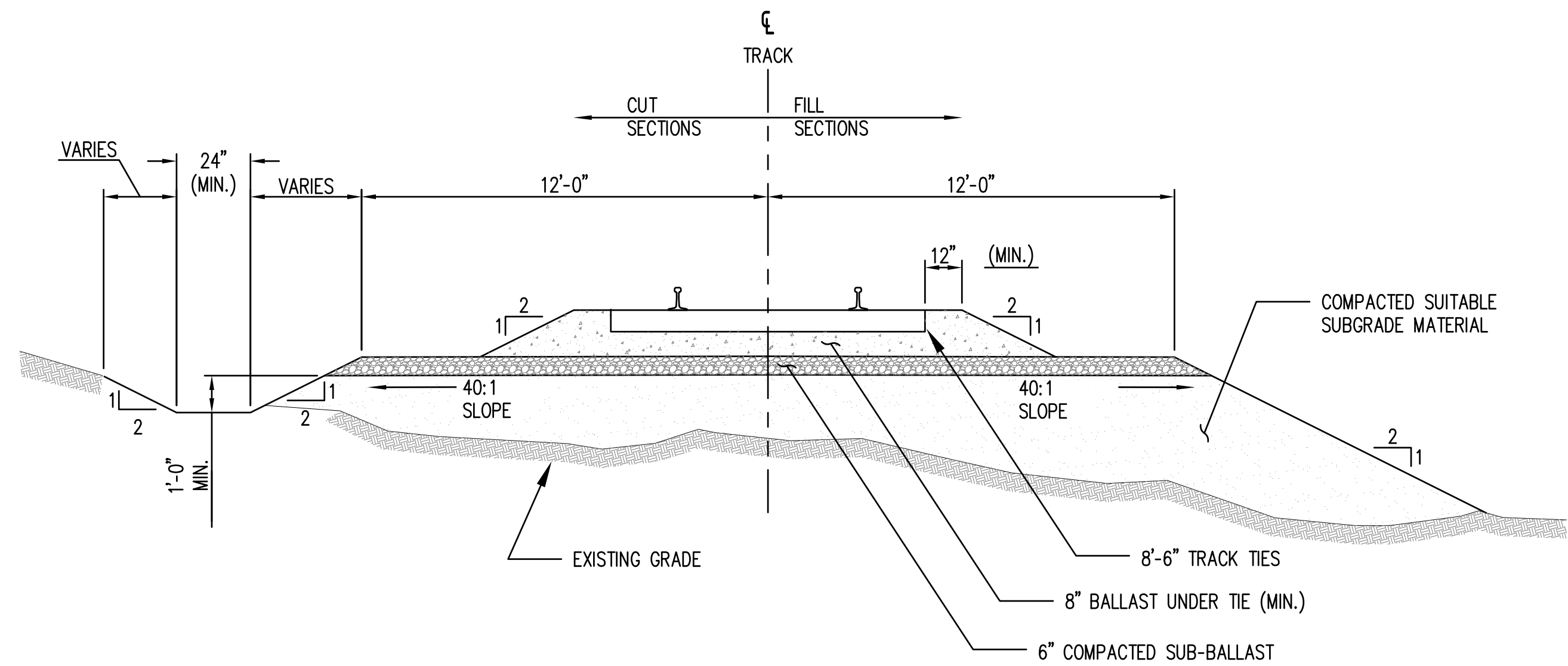
DETAILS  
SHEET 24 OF 26



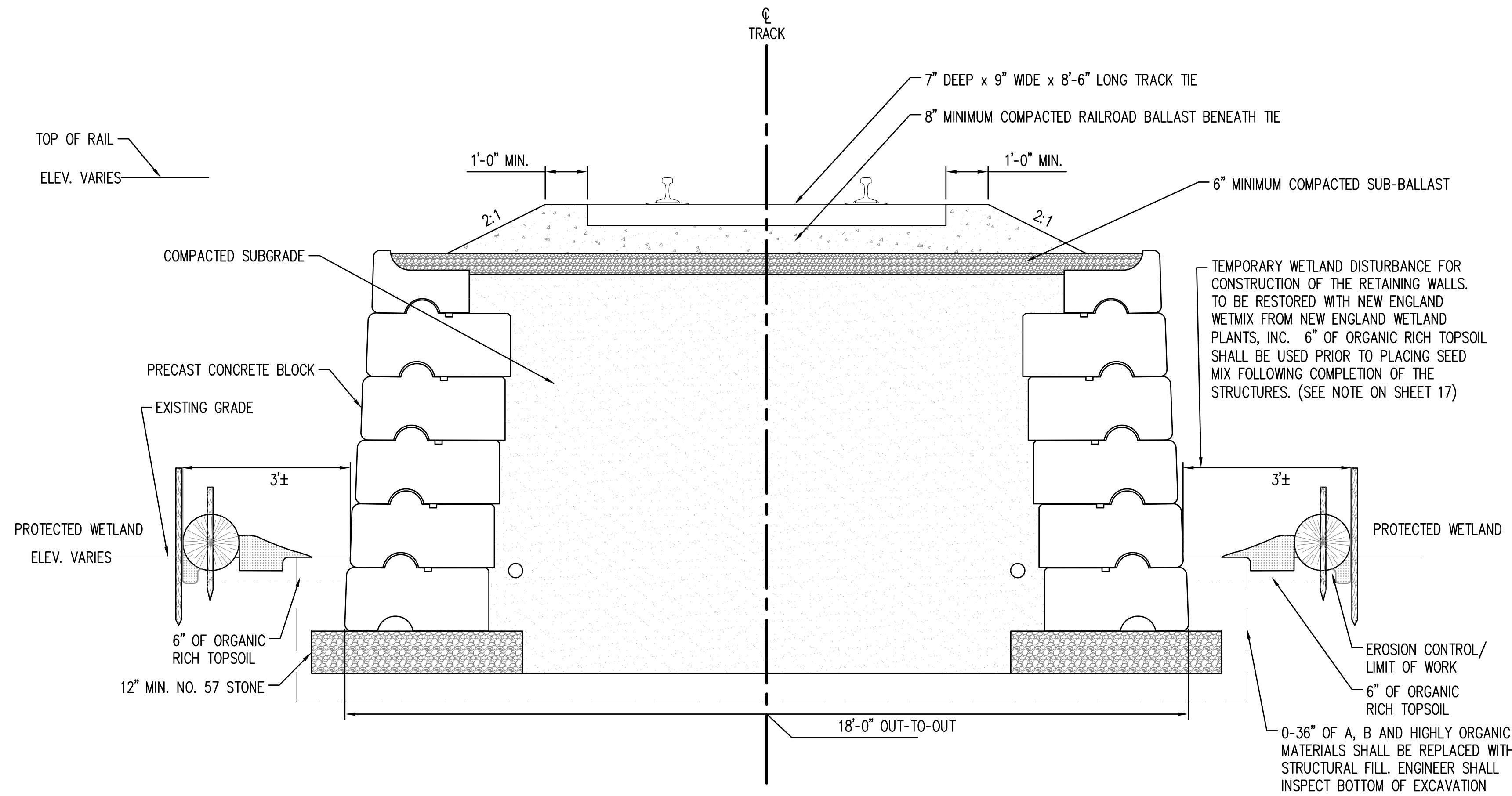
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WILDLIFE CROSSING DETAIL  
(2 LOCATIONS)



TYPICAL CROSS SECTION - SINGLE RAIL



WETLAND CROSSING - SECTION VIEW

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SHEET 25 OF 26





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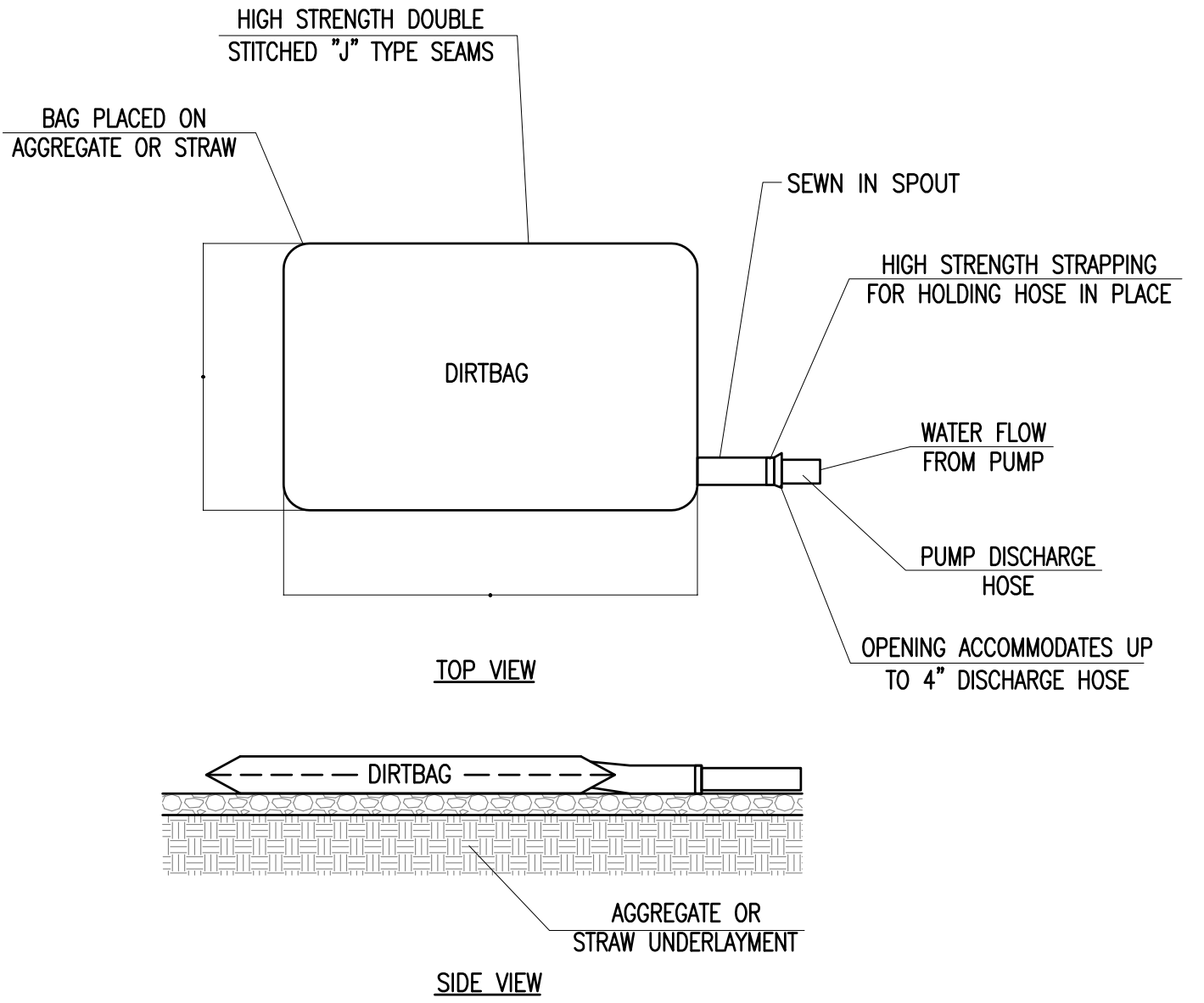
INSTALLATION

TO USE, PLACE WETLAND BAG ON A BED OF COURSE AGGREGATE OR STRAW. THE COURSE BEDDING MATERIAL WILL PROVIDE INCREASED FLOW FROM THE PUMPING ACTIVITY. INSERT THE DISCHARGE PUMP HOSE IN THE SPOUT OF THE BAG AND SECURELY FASTEN. DO NOT EXCEED INITIAL RECOMMENDED PUMPING RATES.

AS THE PUMPING ACTIVITY CONTINUES, THE FLOW FROM THE BAG WILL BE GREATLY REDUCED DEPENDING ON THE AMOUNT AND TYPE OF SEDIMENTS BEING PUMPED. DO NOT OVERFILL. AS THE BAG COLLECTS PARTICLES, IT WILL EVENTUALLY BURST AT THE SEWN SEAMS AND CAN CAUSE DAMAGE TO THE PUMP.

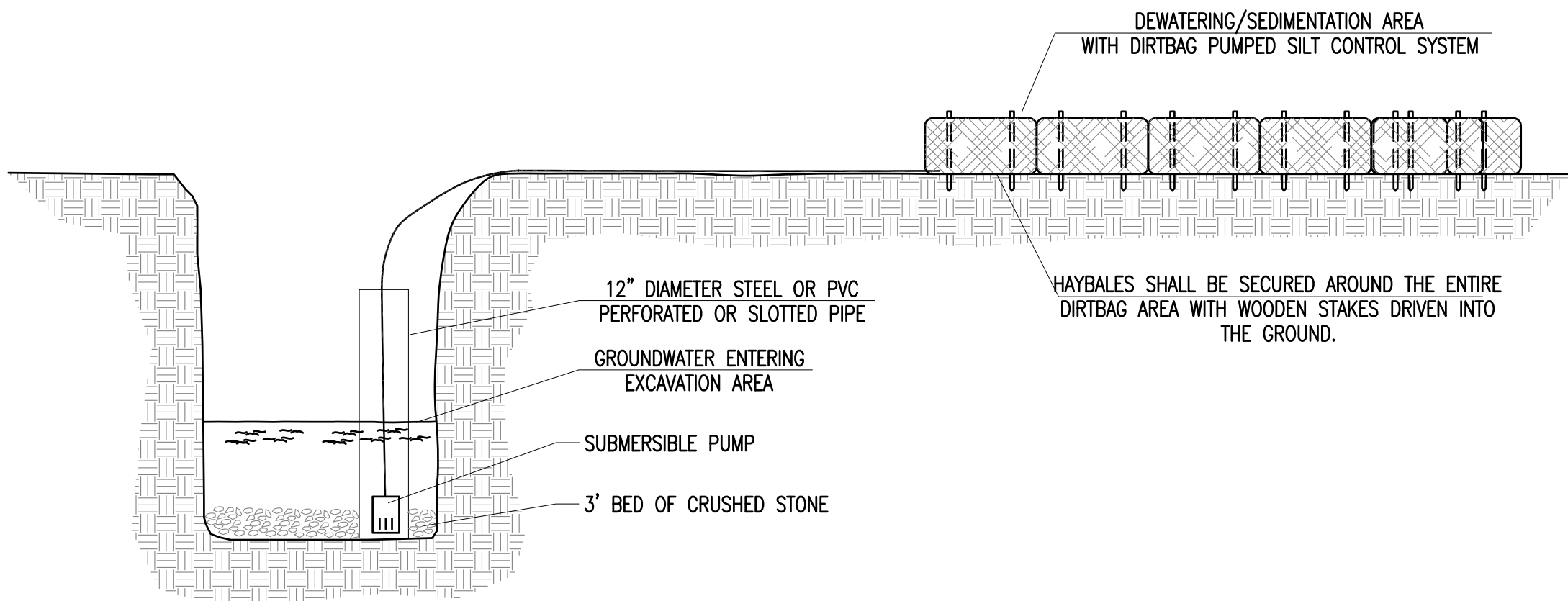
DISPOSAL

THE ENTIRE BAG SHALL BE LOADED AND DISPOSED OF OFFSITE AS DIRECTED BY THE SITE ENGINEER.



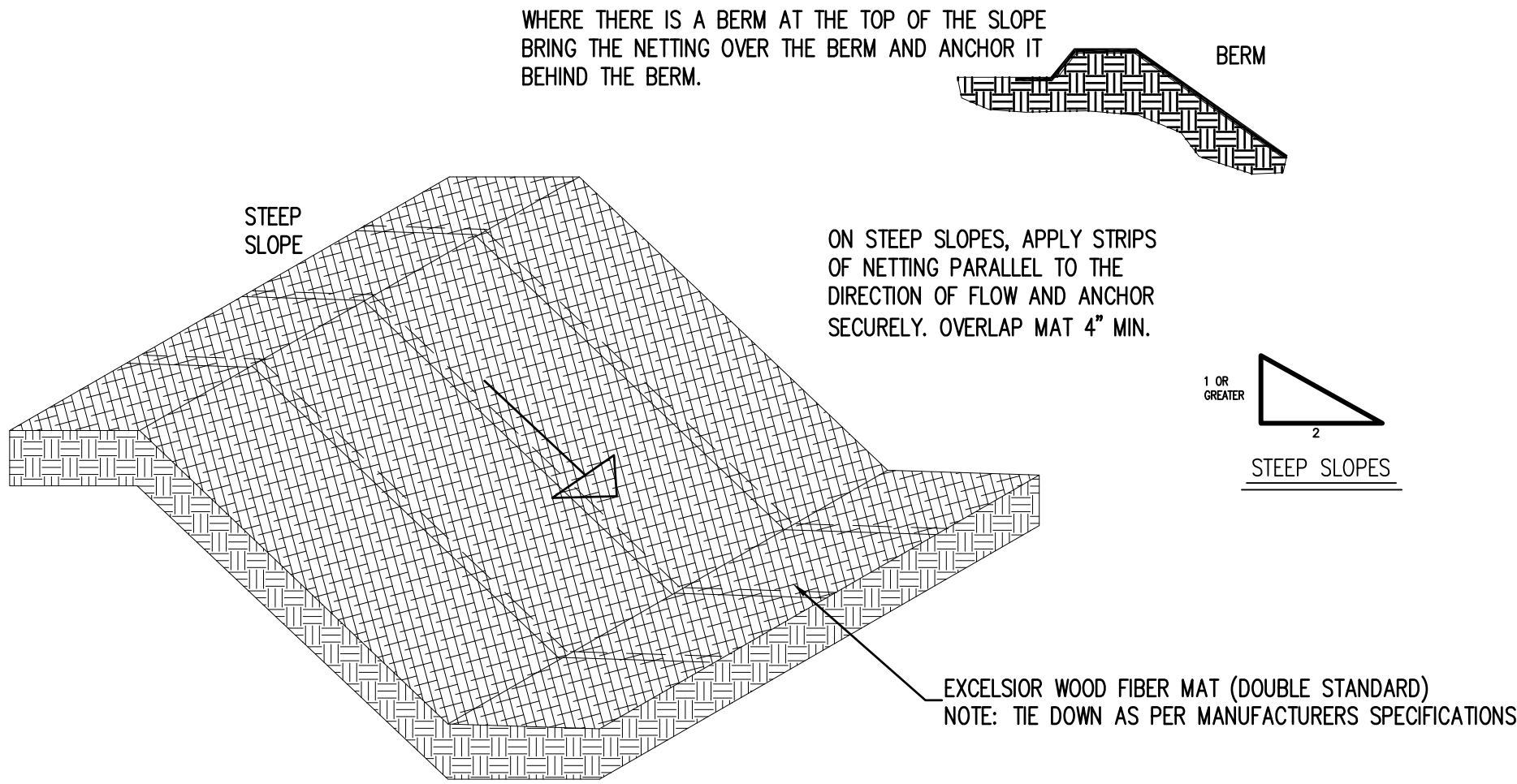
DIRTBAG

NOT TO SCALE



DEWATERING/SEDIMENTATION CONTROL

NOT TO SCALE



EROSION CONTROL - STEEP SLOPES

N.T.S.



**TEC ASSOCIATES**  
46 SAWYER STREET  
SOUTH PORTLAND, MAINE 04106

CONSULTING  
ENGINEERS

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