

TOWN OF STRATHAM

PRELIMINARY DRAWINGS FOR

PORTSMOUTH ROAD (NH ROUTE 108)

WATER SYSTEM IMPROVEMENTS

STRATHAM, NH
MAY 2016

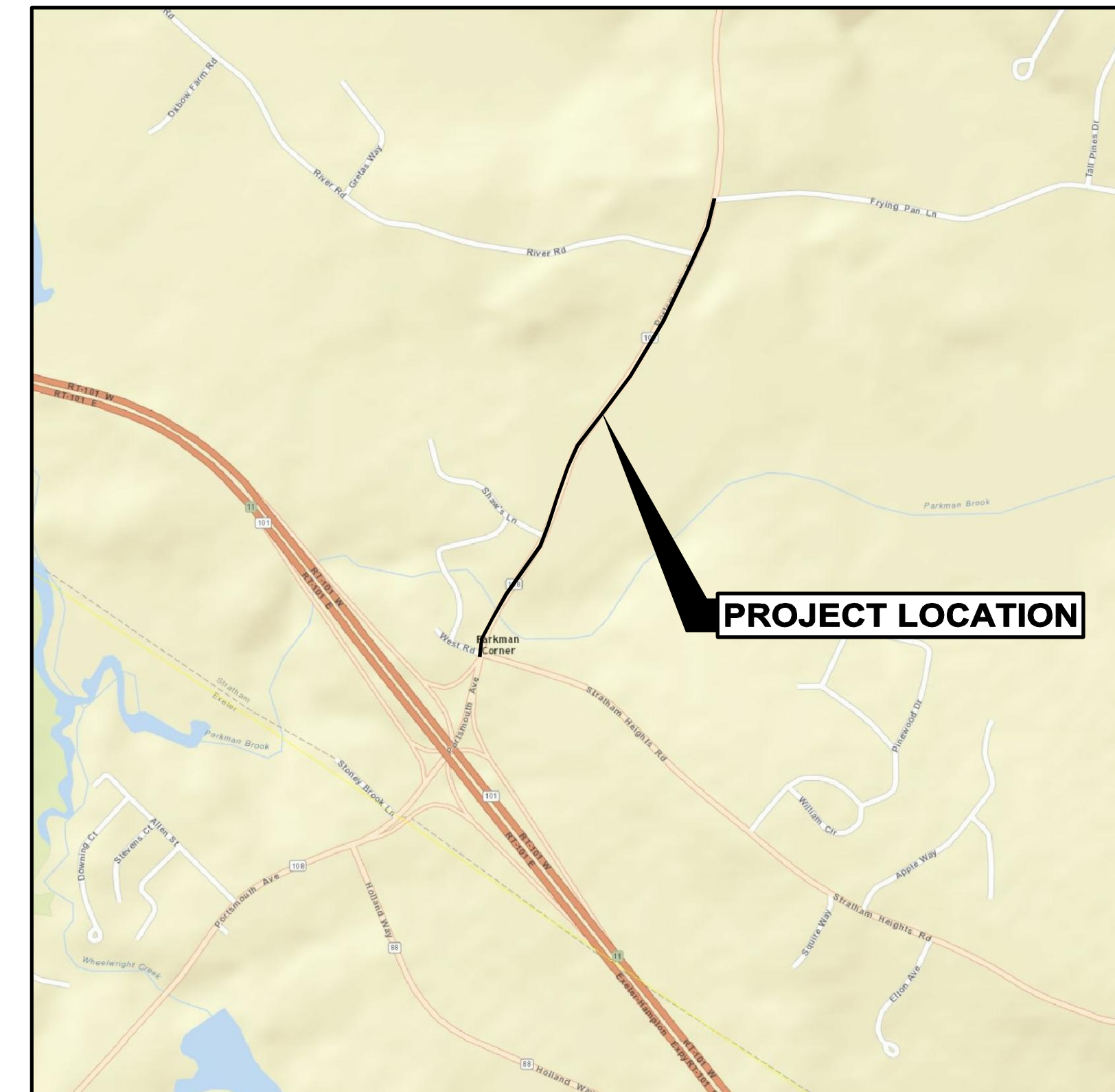
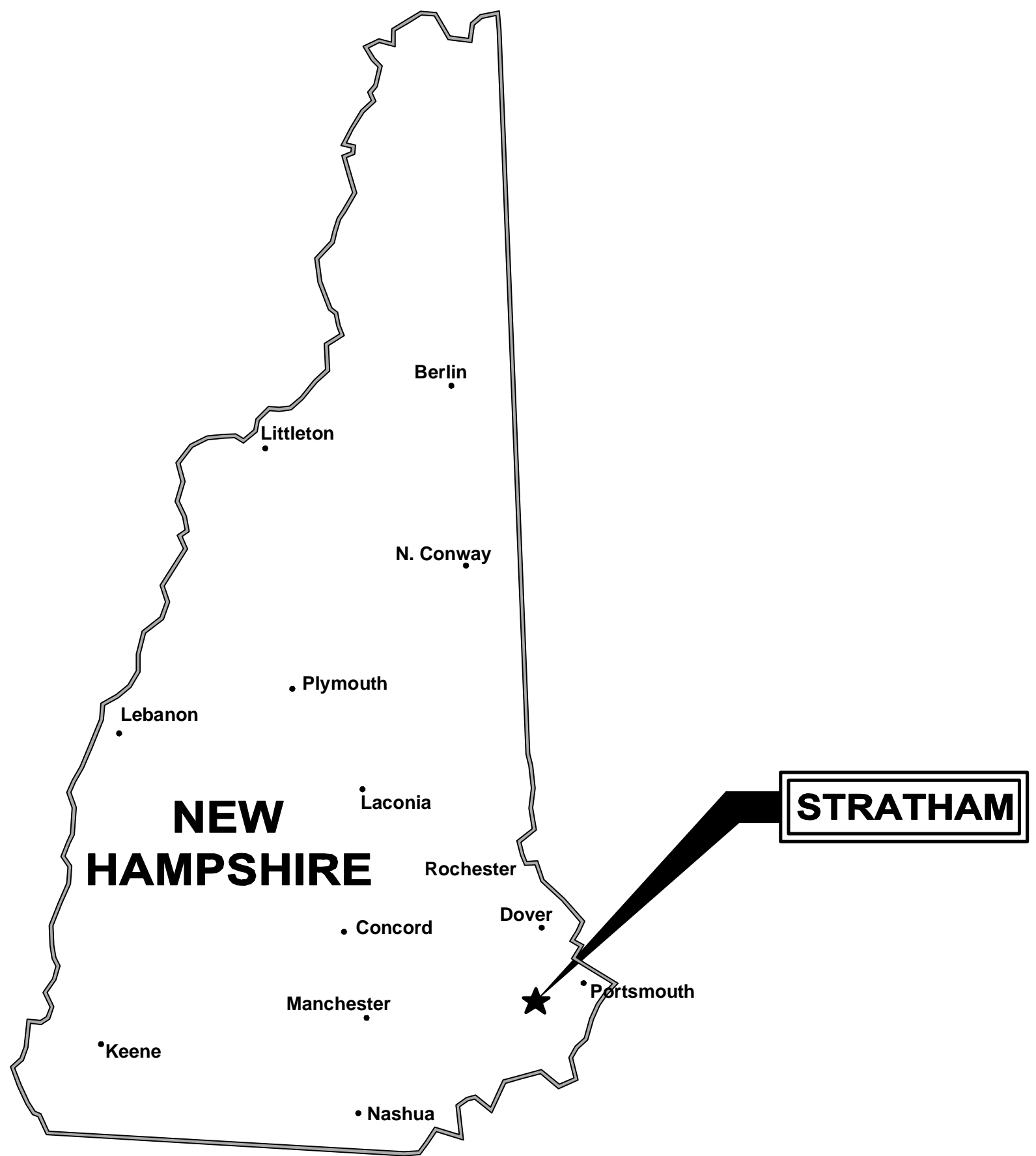
DRAWING INDEX

GENERAL

----- COVER SHEET

CIVIL

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LOCATION PLAN

DRAFT - FOR REVIEW



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FOR REVIEW - _____

FOR BIDDING - _____

WP PROJECT No. 13327B

GENERAL NOTES

- 1. THE CONTRACTOR IS REFERRED TO SECTION 01050 OF THE SPECIFICATIONS REGARDING COORDINATION WITH OTHERS, INCLUDING RESPONSIBILITIES AND RELATED COSTS.
2. BELOW GRADE UTILITY INFORMATION IS BASED ON INFORMATION PROVIDED BY EACH UTILITY. LOCATION OF PUBLIC UTILITIES SHOWN IS ONLY APPROXIMATE AND MAY NOT BE COMPLETE.

Table with 3 columns: ELECTRIC, WATER/SEWER/STORM DRAIN, GAS. Lists contact information for Eversource, Town of Stratham, and various utility companies.

ADJUSTMENT OF WATER, SEWER, AND DRAINAGE, COVERS OR SIMILAR STRUCTURES TO MATCH THE NEW PAVEMENT GRADE AND THE RELOCATION OF UTILITY POLES WILL BE PERFORMED BY THE APPROPRIATE UTILITY OR ITS AUTHORIZED REPRESENTATIVE.

- 2. THE LOCATION AND LIMITS OF ALL ON SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO THE OWNER AND ENGINEER.
3. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED.
4. IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTIFICATION TO PUBLIC SERVICE OF NEW HAMPSHIRE OR FAIRPOINT, RESPECTIVELY.

GENERAL NOTES CONT.

- 22. LIMITS OF WORK IN EXISTING DRIVES AS SHOWN ON THE PLANS ARE APPROXIMATE. ACTUAL LIMITS OF WORK ARE TO BE DETERMINED IN THE FIELD BASED ON THESE DRAWINGS AND AS APPROVED BY THE ENGINEER.
23. PAVEMENT IS TO BE SAWCUT AT ALL SIDE ROADS, PAVED DRIVES, PAVED SIDEWALKS, AS WELL AS THE BEGINNING AND END OF THE PROJECT.
24. SAWCUT LINES FOR PAVED DRIVEWAY MATCHES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY SAWCUT LOCATION FOR DRIVEWAY MATCHES WITH THE ENGINEER.

SURVEY NOTES

- 1. EXISTING CONDITION INFORMATION, RIGHT-OF-WAY LINES, AND WETLAND INFORMATION IS BASED ON A COMBINATION OF GROUND SURVEY CONDUCTED BY DOUCET SURVEY INC., (DOUCET) OF NEWMARKET, NEW HAMPSHIRE.
2. HORIZONTAL DATUM IS BASED ON NEW HAMPSHIRE STATE PLANE(2800) NAD83(2011) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.

GRAPHIC SCALE NOTE
EACH PLAN AND SECTION VIEW IS PROVIDED WITH A GRAPHIC BAR SCALE SIMILAR TO THAT INDICATED HEREIN. IF THE BAR SCALE IS NOT PRESENT ON ANY PLAN OR SECTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

LEGEND

Legend table with columns: EXISTING, PROPOSED. Lists symbols for PROPERTY/ROW LINE, SETBACK LINE, EASEMENT LINE, CENTERLINE, EDGE OF PAVEMENT, CURBING, EDGE OF GRAVEL, EDGE OF CONCRETE, CONTOUR, BUILDING, STONEWALL, TREELINE, CHAIN LINK FENCE, STOCKADE FENCE, BARB WIRE FENCE, RETAINING WALL, GUARDRAIL, SEWER, SEWER FORCE MAIN, GAS, WATER, STORM DRAIN, UNDERDRAIN, CULVERT, UNDERGROUND ELECTRIC, OVERHEAD ELECTRIC, IRON PIPE/REBAR, DRILLHOLE, MONUMENT, SURVEY CONTROL POINT, SPOT ELEVATION, SEWER MANHOLE, DRAINAGE MANHOLE, CATCH BASIN, ELECTRIC MANHOLE, TELEPHONE MANHOLE, GATE VALVE, CURB STOP, YARD HYDRANT, HYDRANT, UTILITY POLE, UTILITY POLE W/ GUY, UTILITY POLE W/ LIGHT, LIGHT POLE, BOLLARD, FLAGPOLE, CONIFEROUS TREE, DECIDUOUS TREE, SHRUB, EDGE OF WATER, STREAM, EDGE OF WETLANDS, FLOODPLAIN, WETLANDS, DRAINAGE FLOW, PAVEMENT MARKINGS, SIGN, MAILBOX, TEMPORARY BENCH MARK, TEST BORING, TEST PROBE, LIMIT OF WORK, SILT FENCE, RIPRAP, MATCHLINE, ROCK OUTCROP, SEWER, SEWER FORCE MAIN, GAS, WATER, STORM DRAIN, UNDERDRAIN, CULVERT, CULVERT/UNDERDRAIN, PIPE PREVIOUSLY ABANDONED, PIPING TO BE DEMOLISHED, PIPING TO ABANDON.

ABBREVIATIONS

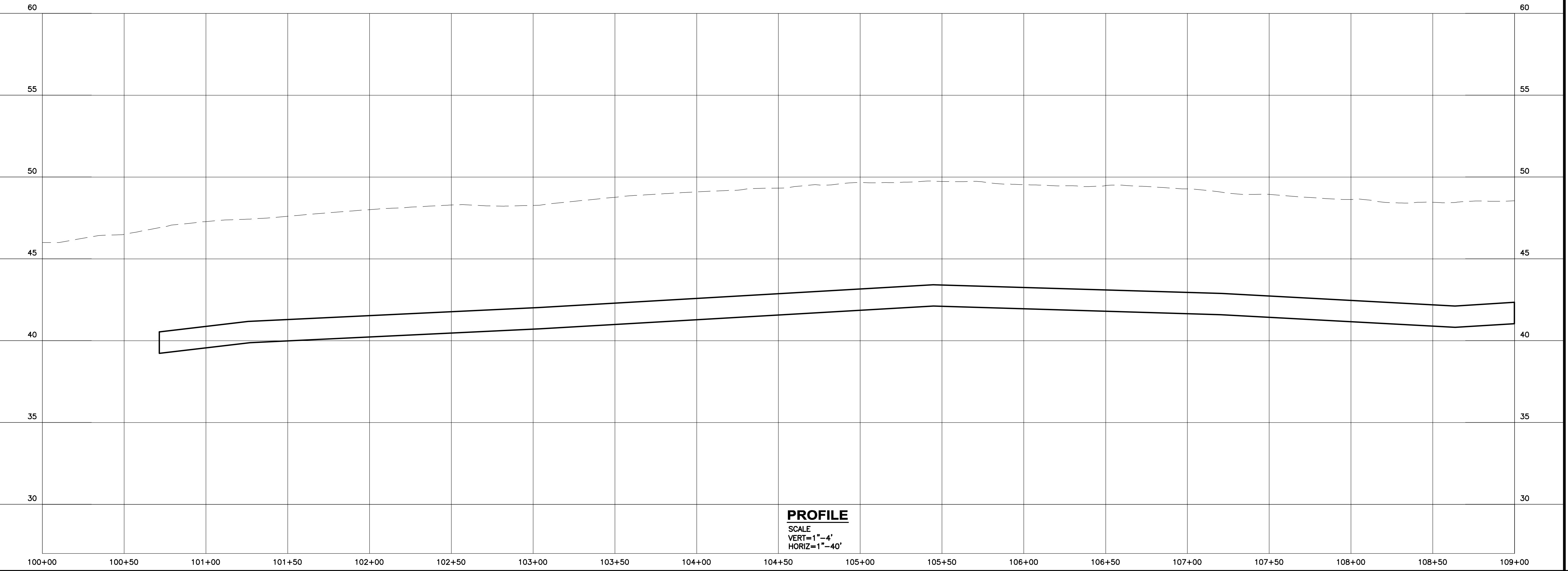
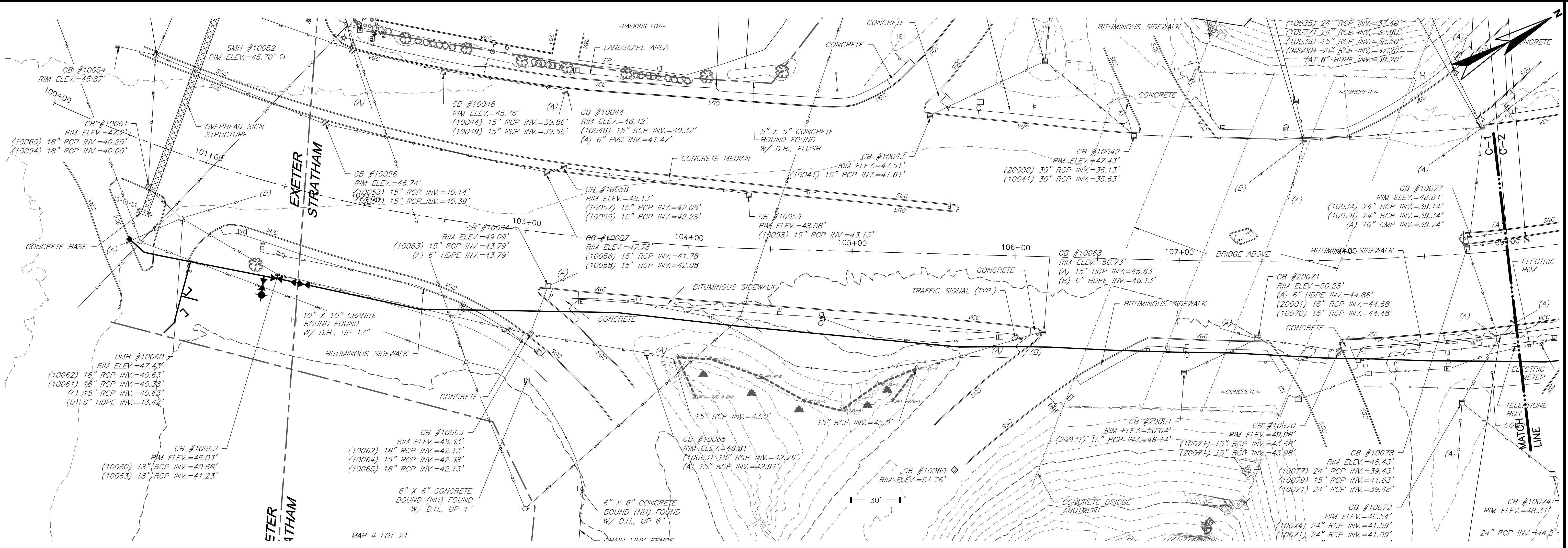
Table with 2 columns: A, AIR; CB, CATCH BASIN; DEW, DEWATERING; DI, DUCTILE IRON PIPE; DR, DRAIN; FM, FORCE MAIN; GS, GALVANIZED STEEL PIPE; HYD, HYDRANT; INV, INVERT ELEVATION; OHE, OVERHEAD ELECTRICAL; OUT, OUTFALL; P.C., POINT OF CURVATURE; PE, POLYETHYLENE PIPE; PVC, POLYVINYL CHLORIDE PIPE; ROP, REINFORCED CONCRETE PIPE; S, SEWER; SD, STORM DRAIN; SMH, SEWER MANHOLE; SS, STAINLESS STEEL PIPE; UD, UNDERDRAIN; UGE, UNDERGROUND ELECTRIC; VC, VITRIFIED CLAY; W, WATER; XFMR, TRANSFORMER.

Table with columns: DATE, APP'D, SUBMISSIONS/REVISIONS. Includes a grid for tracking design and construction phases.

Table with columns: DESIGNED BY, CAD COORD., CHECKED BY, DATE, APPROVED BY, DATE, PROJECT NO.

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STRATHAM, NEW HAMPSHIRE
GENERAL NOTES AND LEGEND
DRAWING
C-1



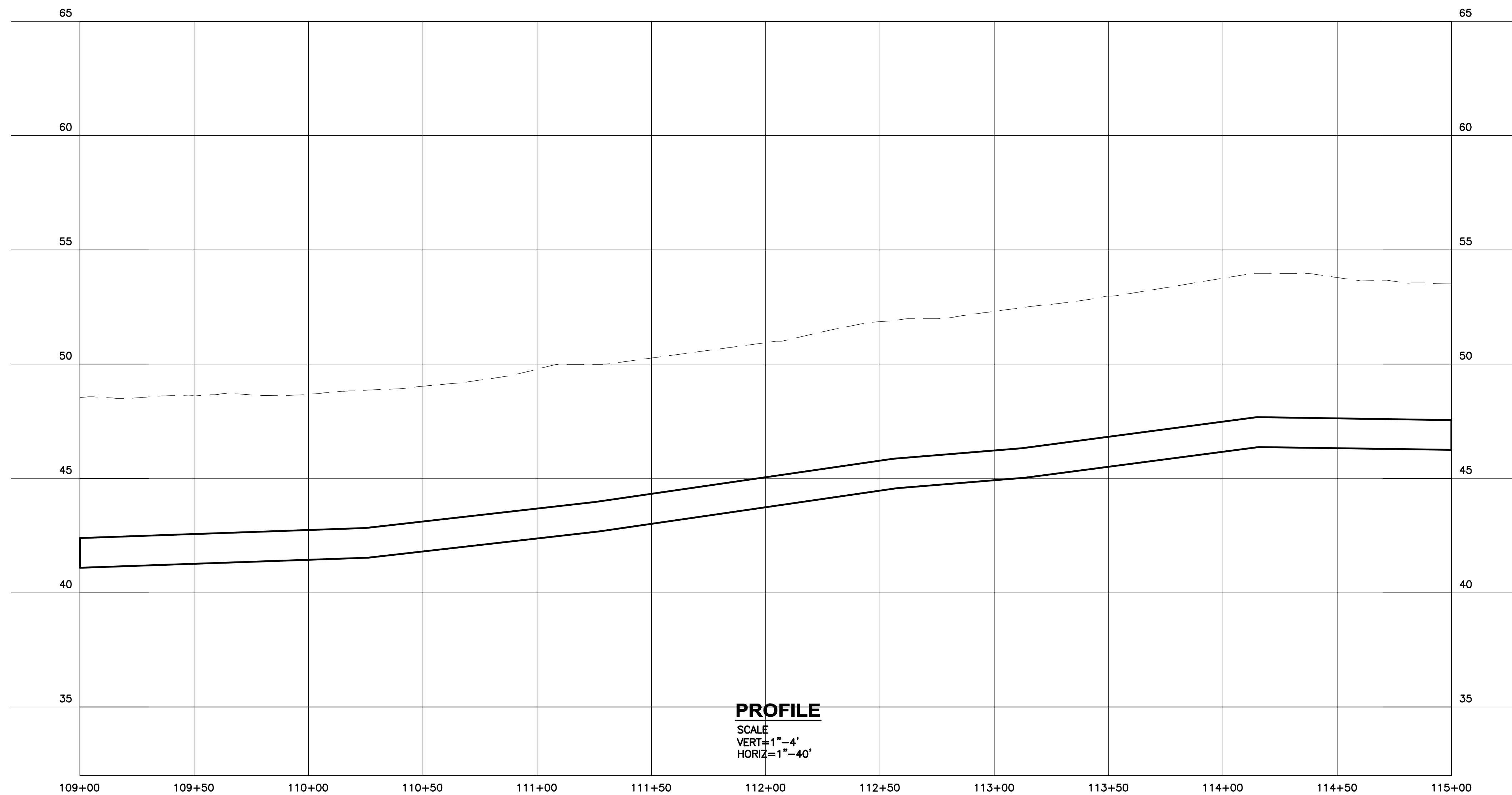
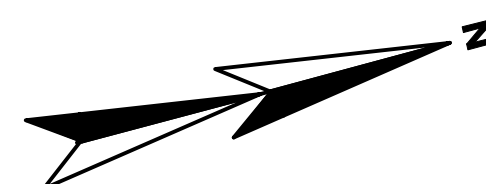
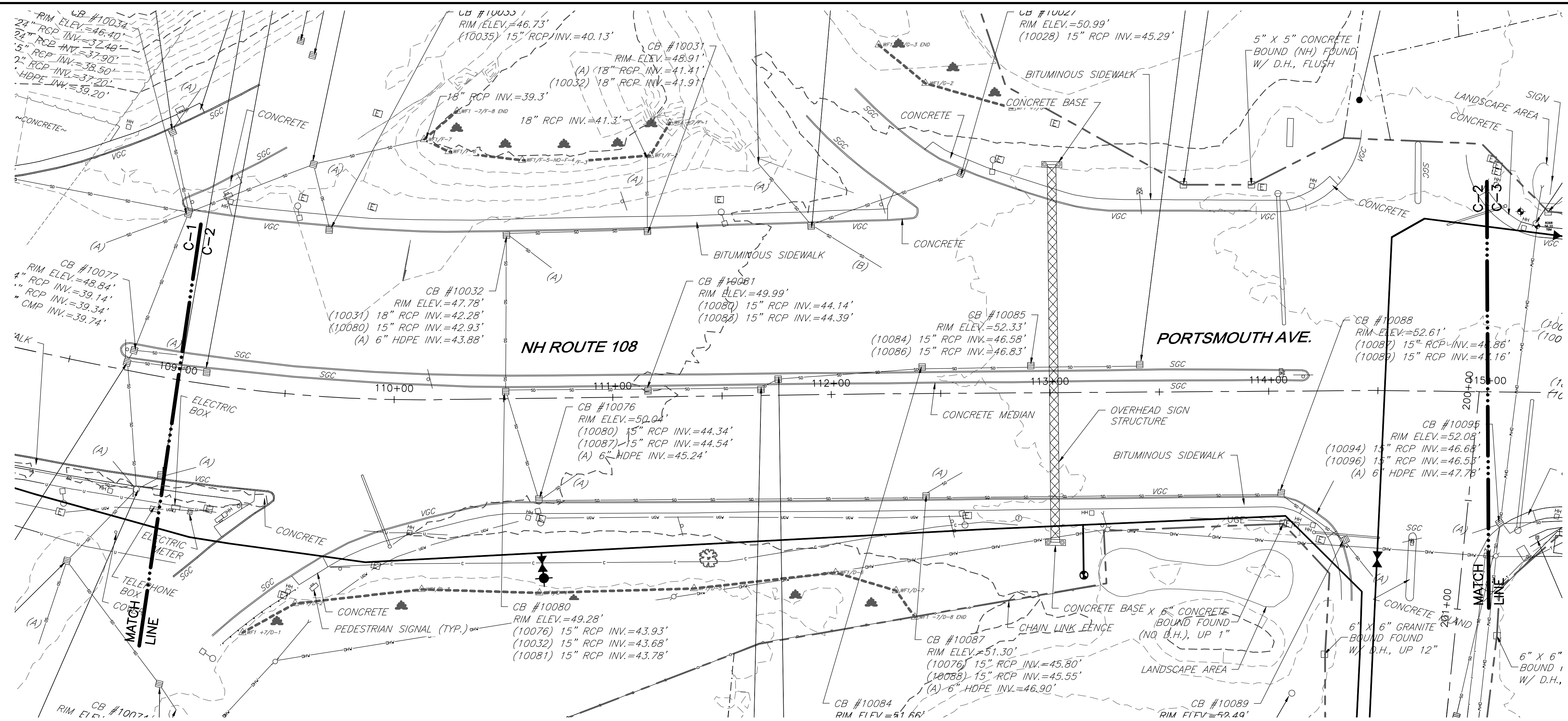
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PORTSMOUTH AVE WATER MAIN
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STA 100+00 TO STA 109+00
 PLAN & PROFILE |

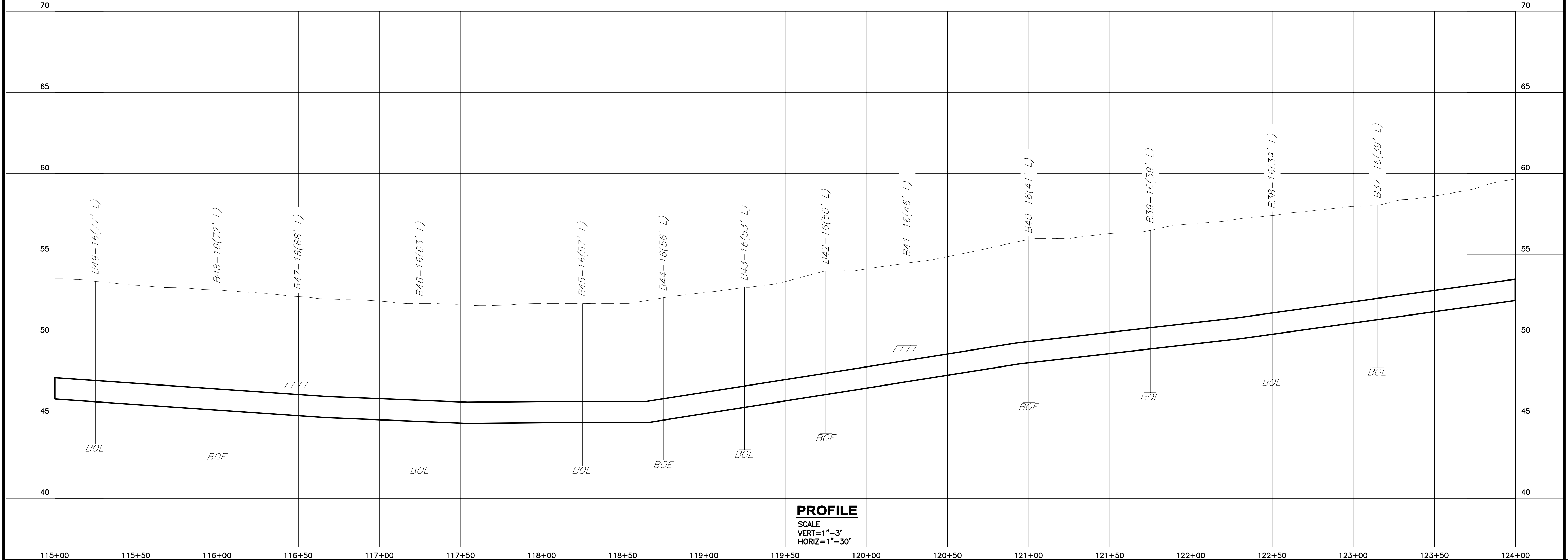
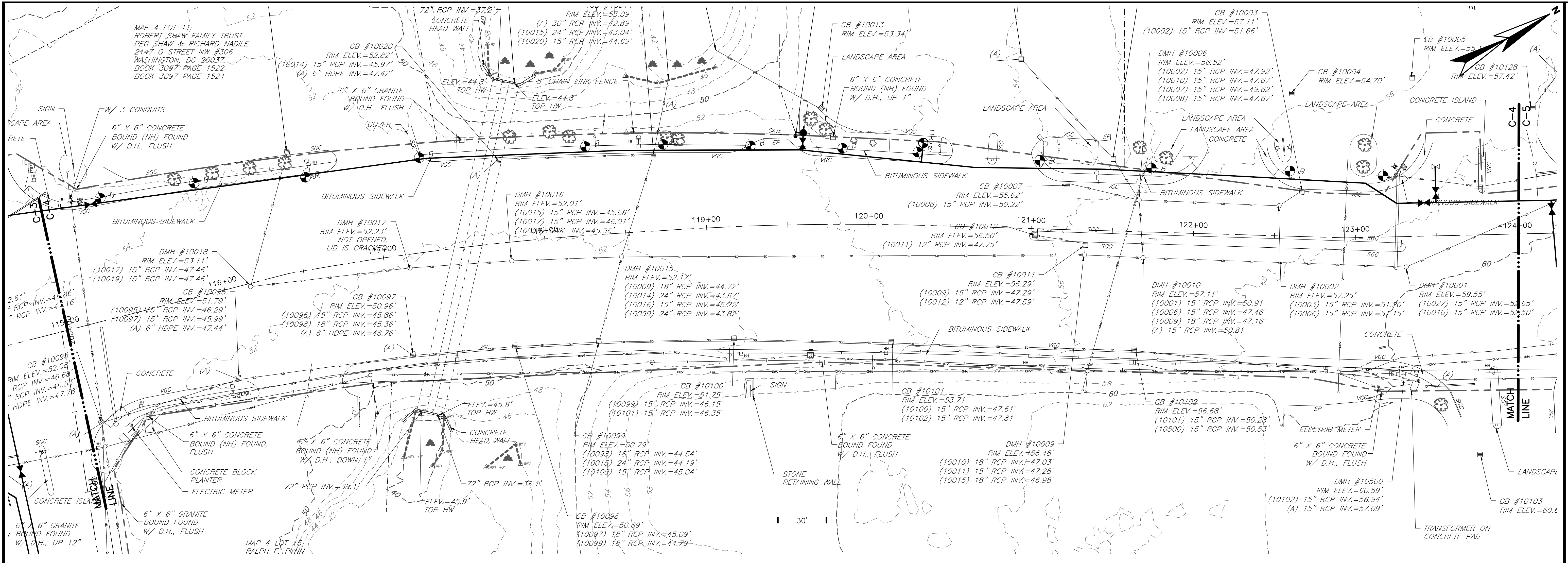
DRAWING
 C-2



PROFILE
 SCALE
 VERT=1"=4'
 HORIZ=1"=40'

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CAD COORD:	APP'D:
CHECKED BY:	NO.
DATE:	DATE:
APPROVED BY:	PROJECT NO.:
DATE:	

PORTSMOUTH AVE WATER MAIN TOWN OF STRATHAM STRATHAM, NEW HAMPSHIRE	STA 111+00 TO STA 115+00 PLAN & PROFILE II
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DRAWING C-3	



PROFILE
 SCALE
 VERT=1"=3'
 HORIZ=1"=30'

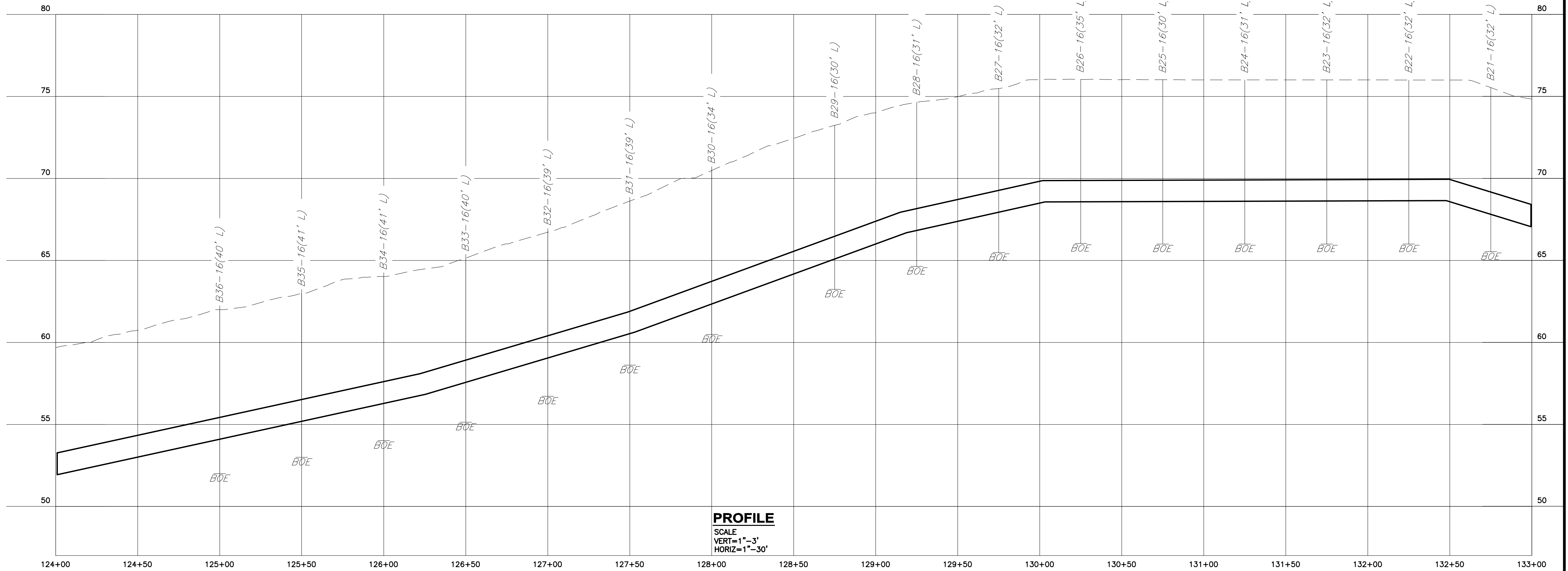
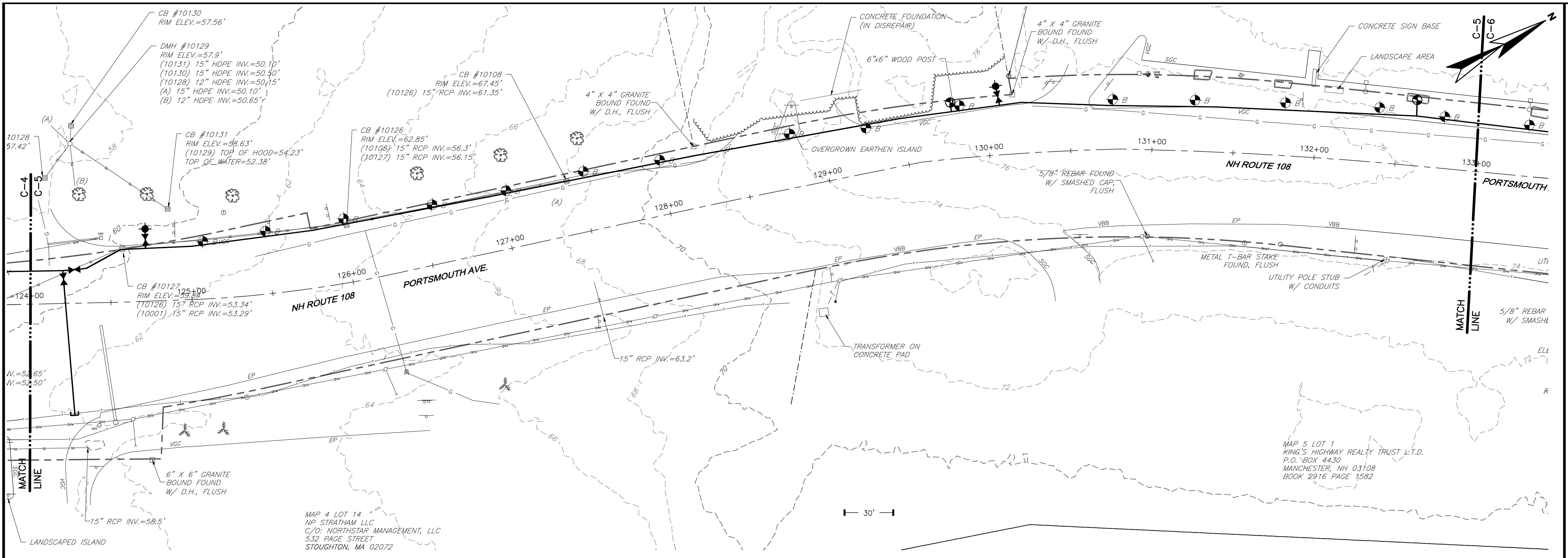
DESIGNED BY:	WILLIAM EDGAR
CAD COORD:	WILLIAM EDGAR
CHECKED BY:	WILLIAM EDGAR
DATE:	5/25/2016
APPROVED BY:	WILLIAM EDGAR
DATE:	5/25/2016
PROJECT NO.:	13327

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PORTSMOUTH AVE WATER MAIN
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STA 115+00 TO STA 124+00
 PLAN & PROFILE III

DRAWING
 C-4



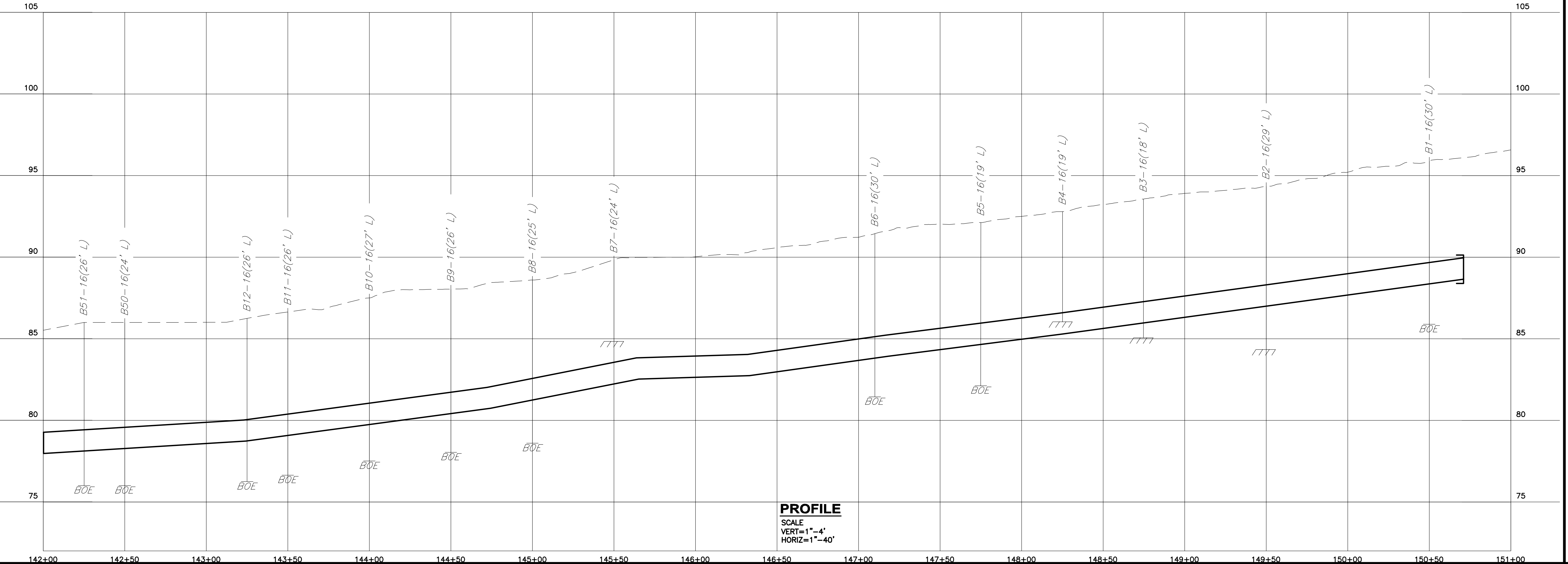
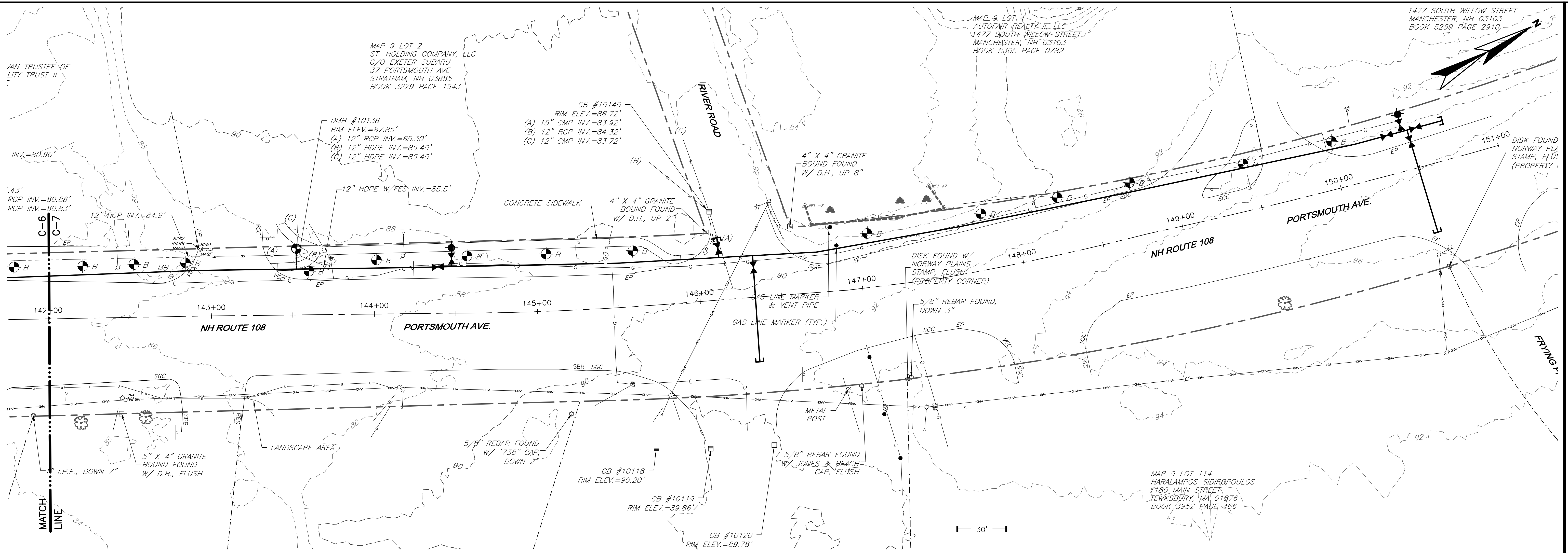
PROFILE
 SCALE
 VERT=1"=3'
 HORIZ=1"=30'

DESIGNED BY:	DATE:
CAD COORD:	APP'D:
CHECKED BY:	
APPROVED BY:	
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PORTSMOUTH AVE WATER MAIN
 TOWN OF STRATHAM
 STRATHAM, NEW HAMPSHIRE
 STA 124+00 TO STA 133+00
 PLAN & PROFILE IV

DRAWING
 C-5



PROFILE
 SCALE
 VERT=1"=4'
 HORIZ=1"=40'

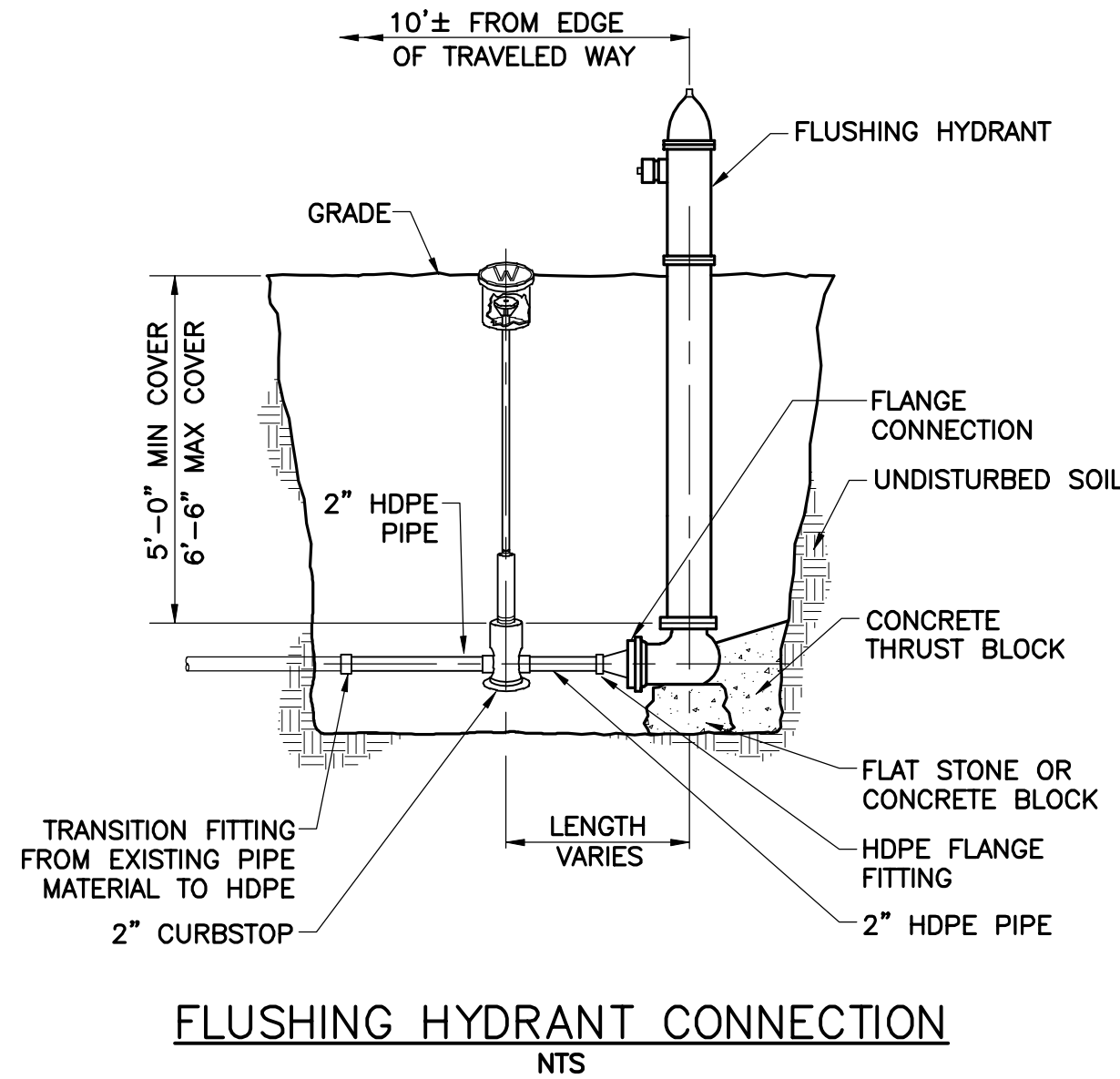
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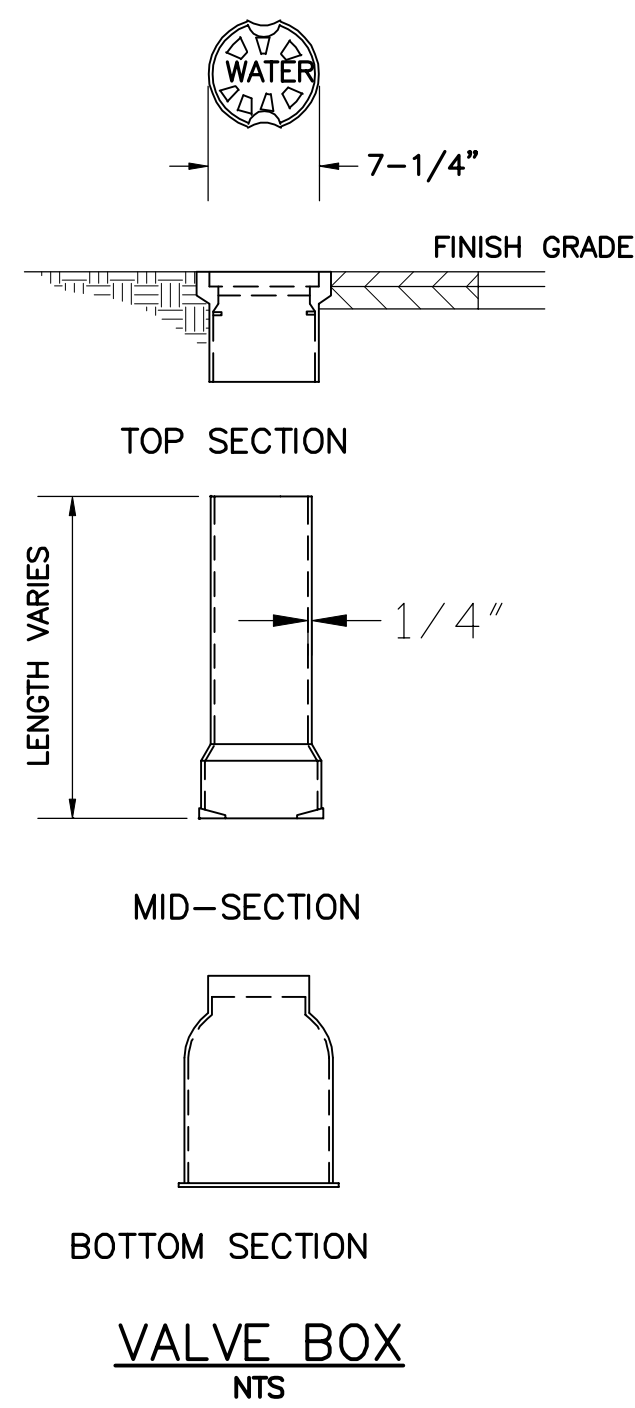
PORTSMOUTH AVE WATER MAIN
 TOWN OF STRATHAM
 STRATHAM, NEW HAMPSHIRE

STA 146+00 TO STA 151+00
 PLAN & PROFILE VI

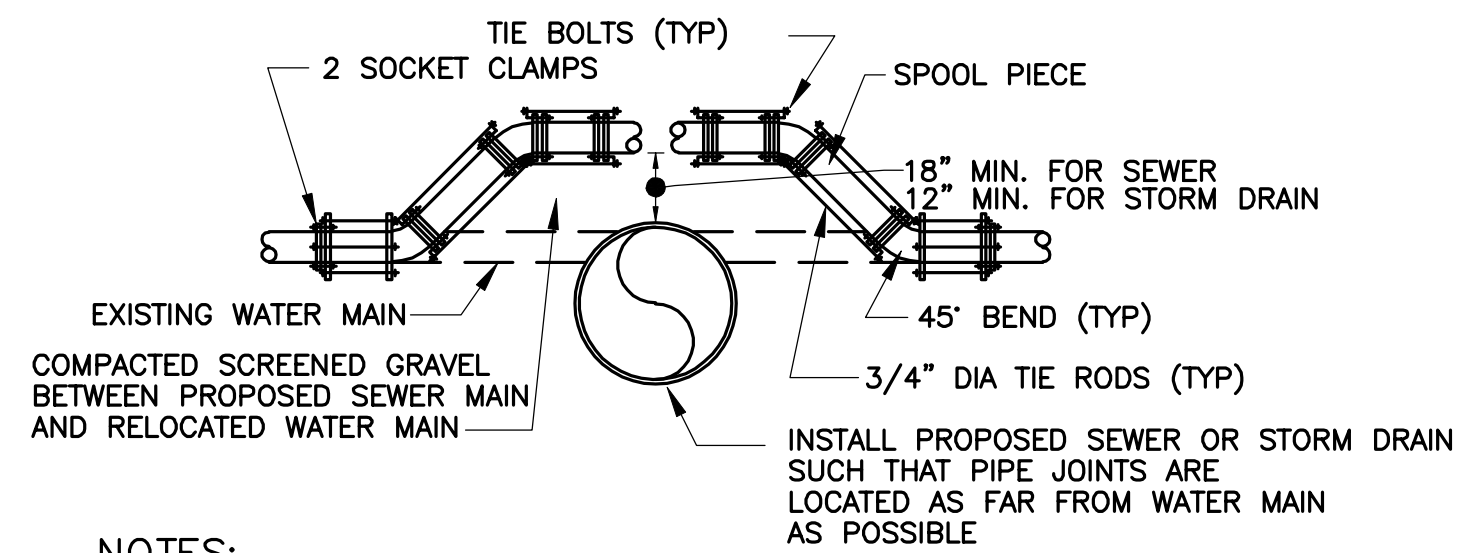
DRAWING
 C-7



FLUSHING HYDRANT CONNECTION
NTS



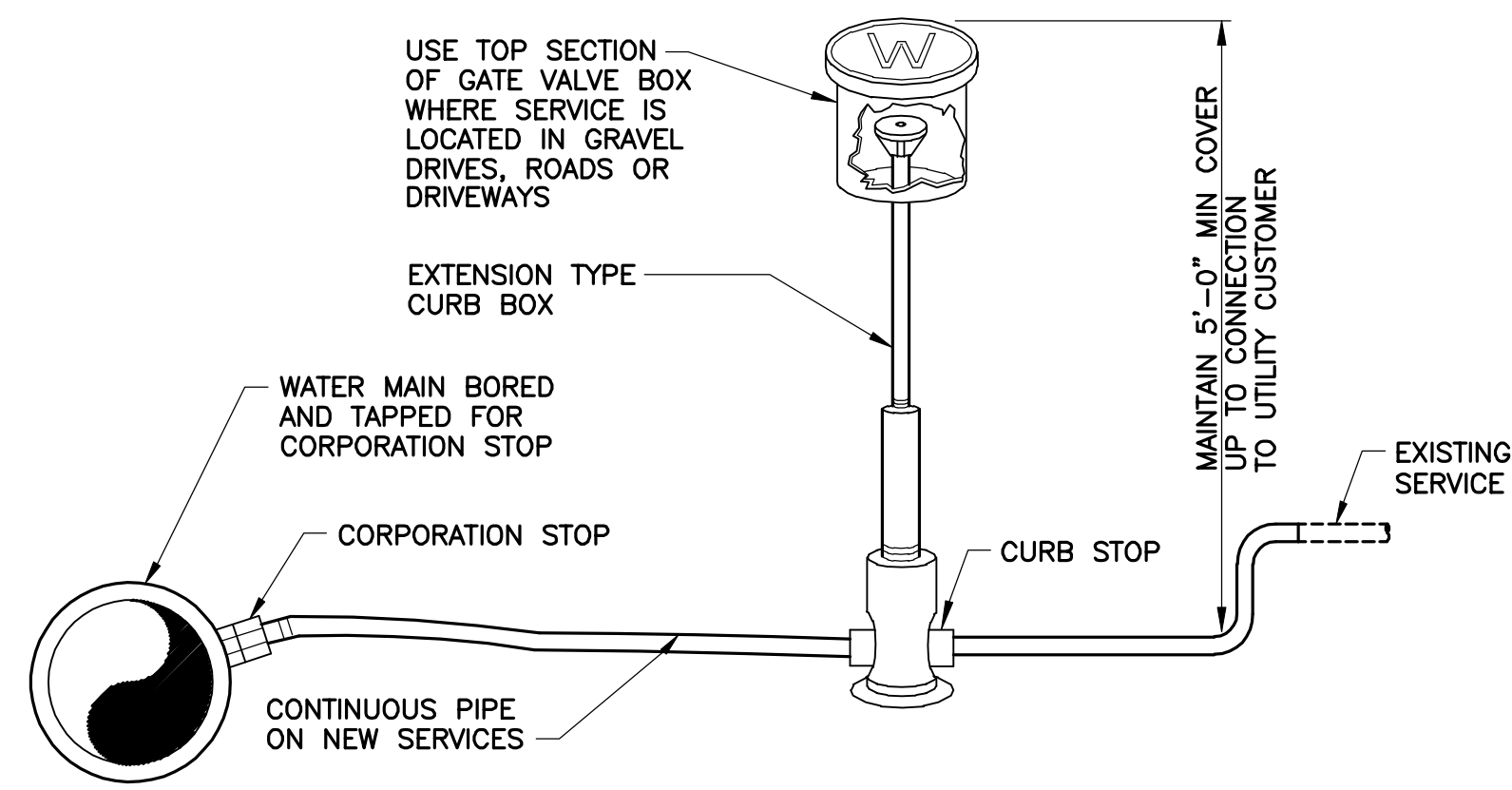
VALVE BOX
NTS



NOTES:

1. WATER MAIN MATERIALS TO BE CLASS 52 DUCTILE IRON. JOINT RESTRAINT TO BE BY MECHANICAL JOINT WITH MEGA-LUGS OR WITH TIE BOLTS AS SHOWN. ALL PUSH-ON JOINTS SHALL BE RESTRAINED WITH ROD CLAMPS AND TIE BOLTS.
2. THE RODS, TIE BOLTS, SOCKET CLAMPS AND BRIDLES SHALL BE COATED WITH A BITUMINOUS PAINT AFTER ASSEMBLY OR IF NECESSARY PRIOR TO ASSEMBLY.
3. TIE RODS: 10" DIA WATER MAIN OR LARGER - 4 REQUIRED. 8" DIA WATER MAIN OR SMALLER - 2 REQUIRED.
4. EXISTING WATER MAINS TO BE RELOCATED OVER NEW SEWERS WHEREVER SUFFICIENT GROUND COVER EXISTS (6" MINIMUM COVER).
5. WATER MAINS OR SERVICES WITHIN 5 FEET HORIZONTALLY OR 4 FEET VERTICALLY OF ANY CULVERT OR STORM DRAIN PIPE SHALL HAVE INSULATION. SEE CULVERT/STORM DRAIN CROSSING DETAIL.

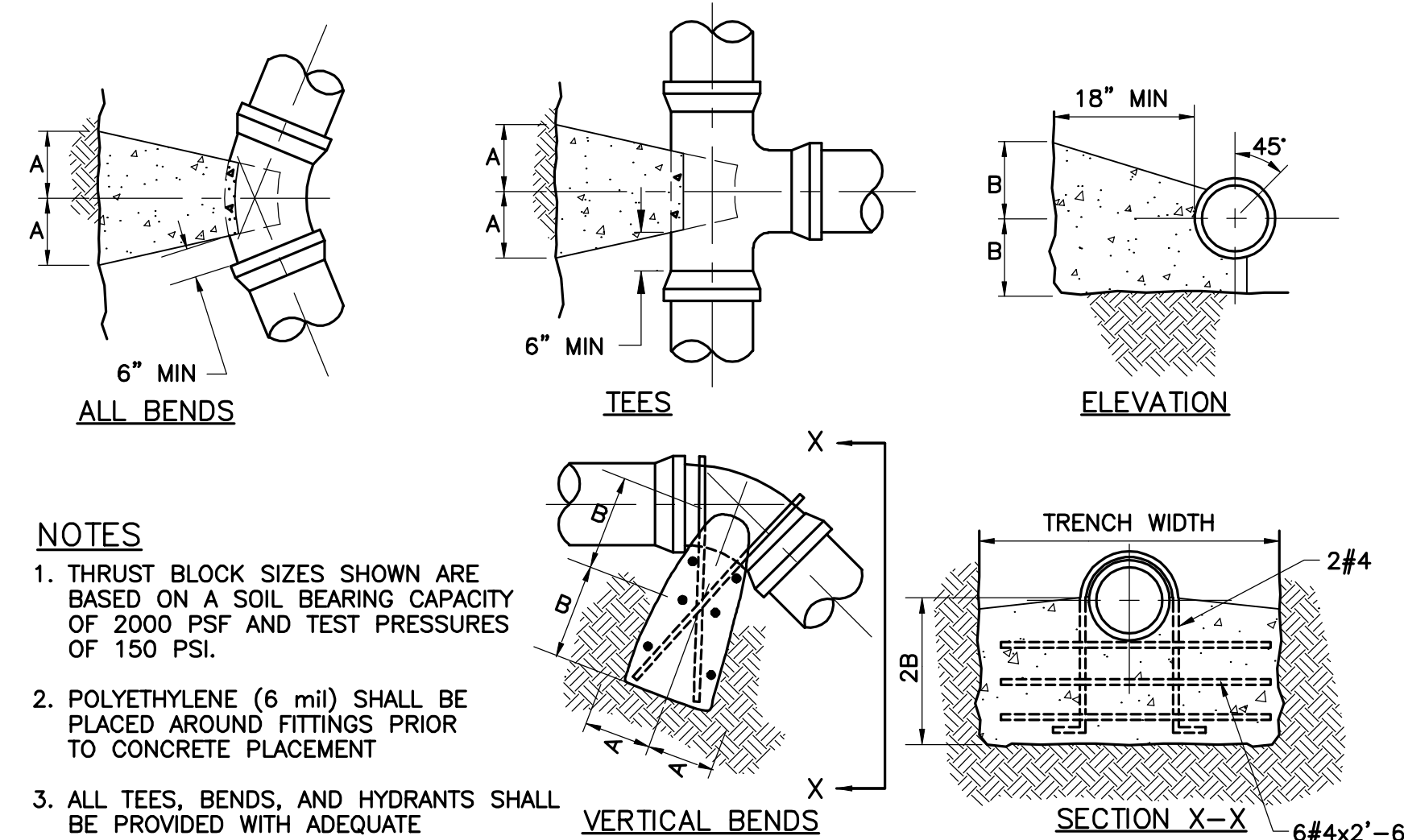
WATER MAIN RELOCATION DETAIL
NTS



NOTES:

1. WATER SERVICE CONNECTIONS TO BE 1" DIAMETER UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
2. WATER MAINS OR SERVICES WITHIN 5 FEET HORIZONTALLY OR 4 FEET VERTICALLY OF ANY CULVERT OR STORM DRAIN PIPE SHALL HAVE INSULATION. SEE CULVERT/STORM DRAIN CROSSING DETAIL.
3. WATER SERVICES LARGER THAN 1" SHALL HAVE CORPORATIONS TAPPED THROUGH A SERVICE SADDLE.

WATER SERVICE CONNECTION
NTS

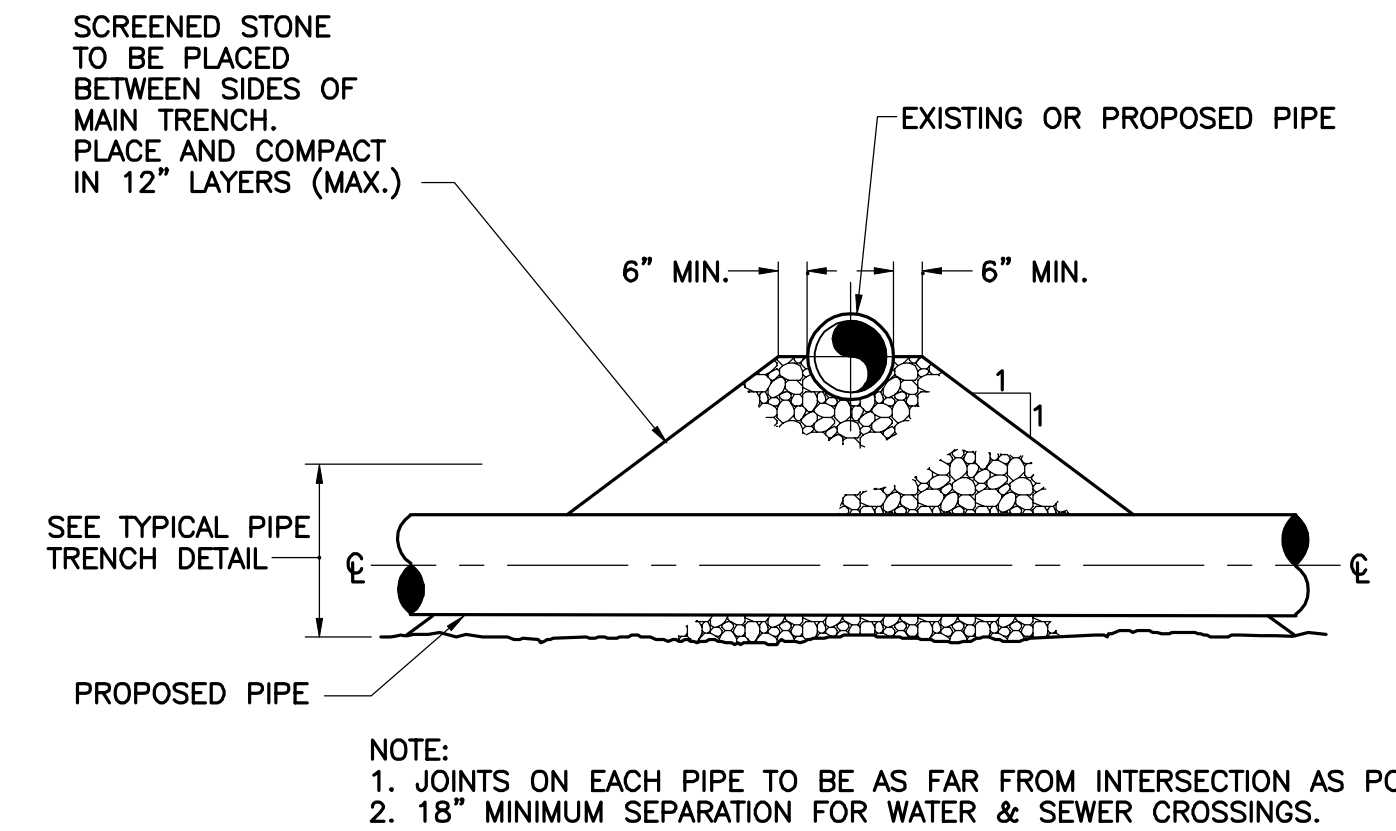


NOTES:

1. THRUST BLOCK SIZES SHOWN ARE BASED ON A SOIL BEARING CAPACITY OF 2000 PSF AND TEST PRESSURES OF 150 PSI.
2. POLYETHYLENE (6 mil) SHALL BE PLACED AROUND FITTINGS PRIOR TO CONCRETE PLACEMENT
3. ALL TEES, BENDS, AND HYDRANTS SHALL BE PROVIDED WITH ADEQUATE THRUST BLOCKING
4. MEGA-LUGS WILL ALSO BE REQUIRED

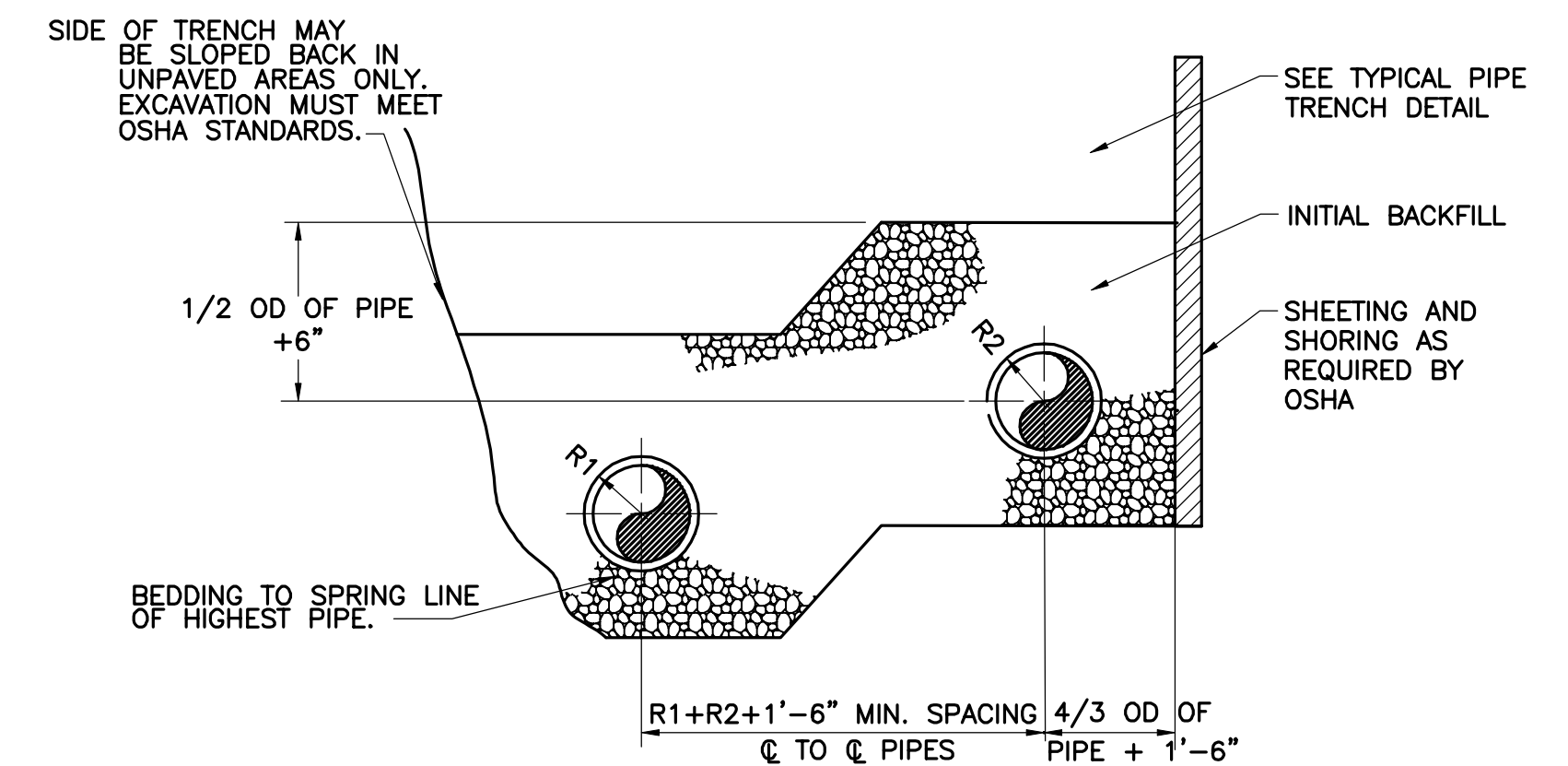
PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		TEE		VERT BEND	
	A	B	A	B	A	B	A	B	A	B	A	B
6"	18"	12"	12"	9"	9"	9"	9"	9"	9"	9"	"	"
8"	24"	15"	15"	12"	12"	12"	12"	12"	18"	15"	"	"
10"	24"	24"	18"	18"	12"	12"	12"	12"	24"	24"	"	"
12"	24"	24"	18"	18"	15"	12"	12"	12"	24"	24"	"	"

THRUST BLOCK DETAIL
NTS



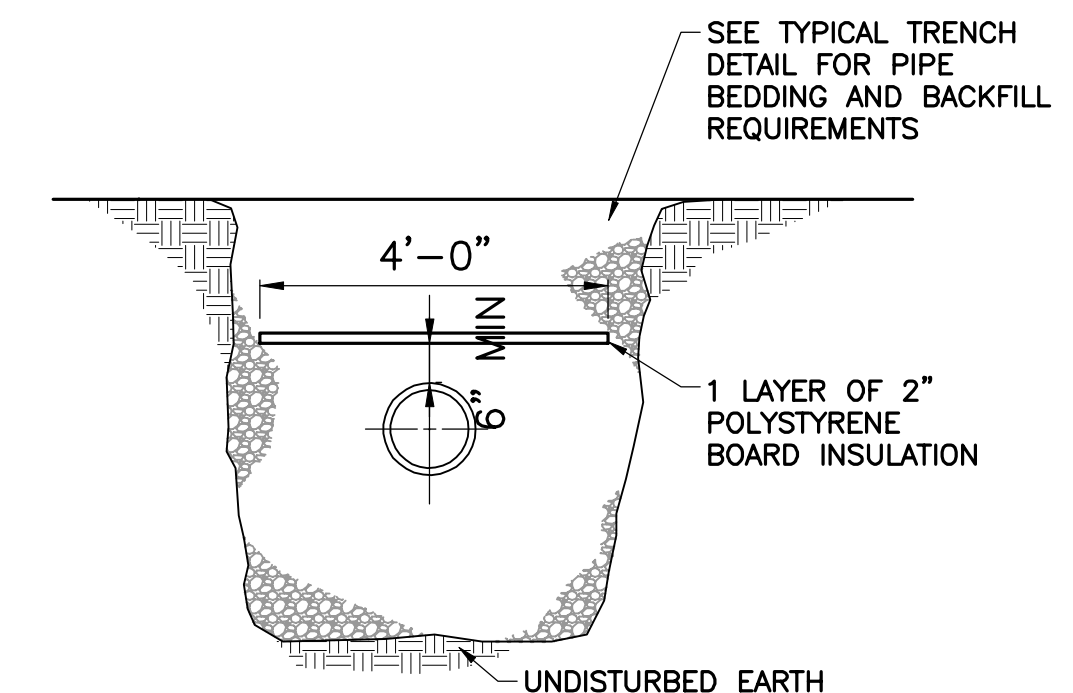
- NOTES:
1. JOINTS ON EACH PIPE TO BE AS FAR FROM INTERSECTION AS POSSIBLE.
 2. 18" MINIMUM SEPARATION FOR WATER & SEWER CROSSINGS.

PIPE CROSSING DETAIL
NTS



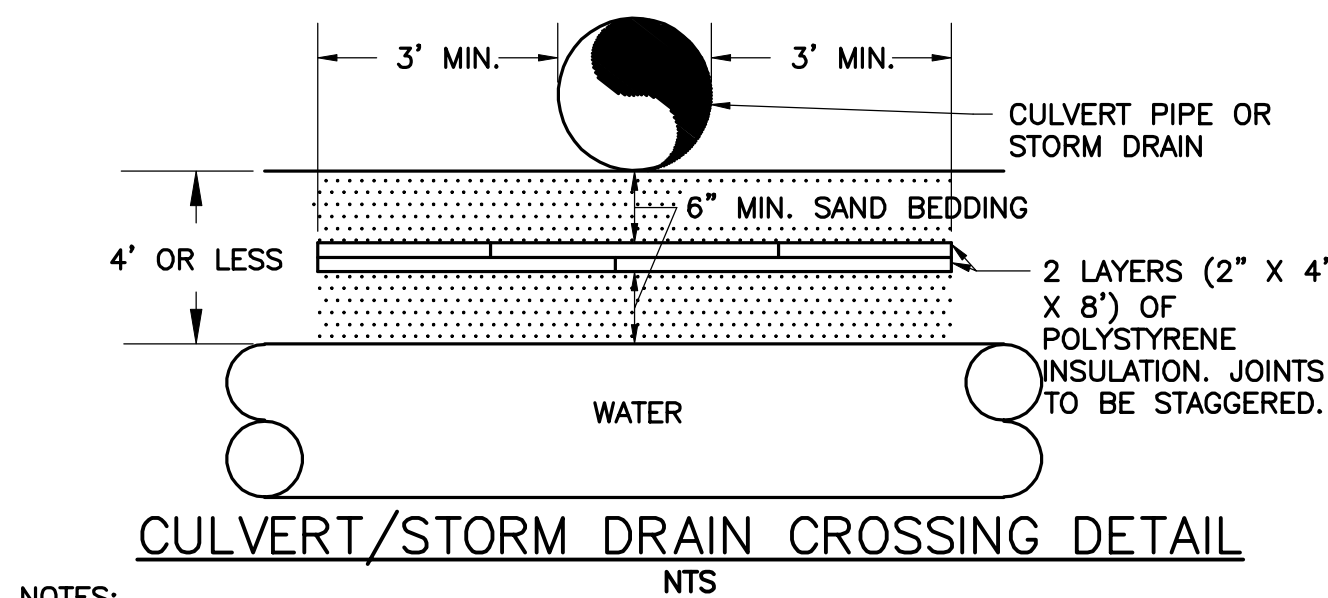
- NOTES:
1. THIS SECTION IS SHOWN FOR TWO PIPES. IT IS TO BE USED FOR ANY NUMBER OF PIPES.
 2. SEE SPECIFICATIONS FOR BEDDING AND BACKFILL MATERIALS AND COMPACTED BACKFILL REQUIREMENTS.
 3. PIPE SPACING SHOWN IS TYPICAL UNLESS OTHERWISE INDICATED.

MULTIPLE PIPE TRENCH SECTION
NTS



- NOTE:
- TRENCH PIPE INSULATION TO BE USED WHERE DEPTH OF COVER IS LESS THAN ** FEET OR AS DIRECTED BY THE ENGINEER

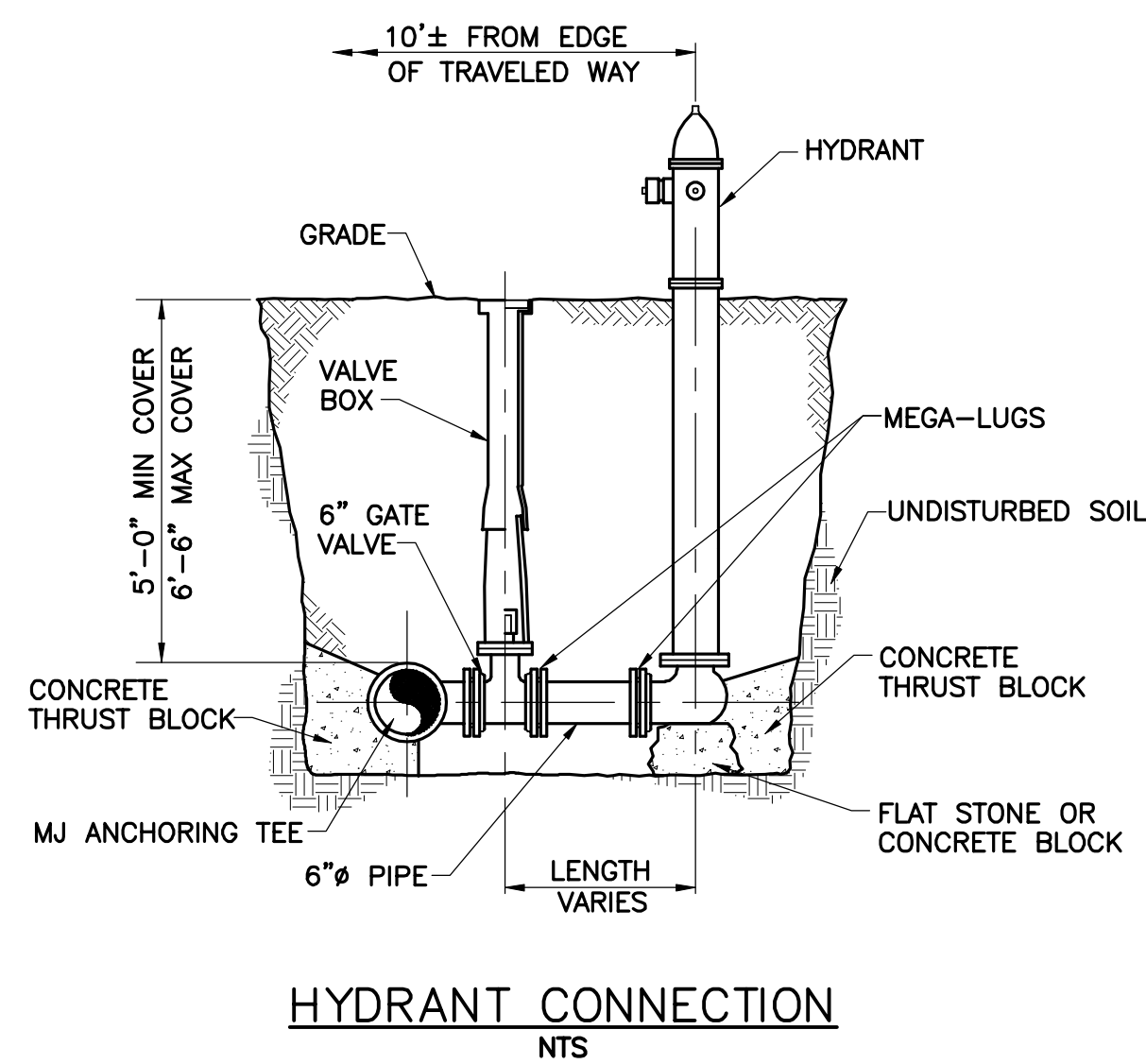
TRENCH PIPE INSULATION
NTS



NOTES:

1. WATER MAINS OR SERVICES WITHIN 4 FEET HORIZONTALLY OR VERTICALLY OF ANY CULVERT OR STORM DRAIN PIPE SHALL HAVE INSULATION.
2. THICKNESS OF INSULATION SHALL BE 4" WHERE SEPARATION OF WATER MAINS OR SERVICES FROM CULVERTS OR STORM DRAIN PIPE IS 18" OR LESS.

CULVERT/STORM DRAIN CROSSING DETAIL
NTS



HYDRANT CONNECTION
NTS

NO.	DATE	APP'D	REVISIONS

DESIGNED BY:	CAD. COORD.:	CHECKED BY:	APPROVED BY:
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PORTSMOUTH AVE WATER MAIN
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EROSION AND SEDIMENTATION CONTROL NOTES

THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE NEW HAMPSHIRE STORMWATER MANUAL BY THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES, TERRAIN ALTERATION BUREAU, DATED DECEMBER 2008

THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL STRUCTURES REQUIRED ARE SHOWN ON THE DRAWINGS. PROVIDE SILT FENCE, STONE CHECK DAMS AND OTHER EROSION CONTROL MEASURES AS REQUIRED TO ADEQUATELY PREVENT SEDIMENT TRANSPORT AS NOTED IN THE BMP.

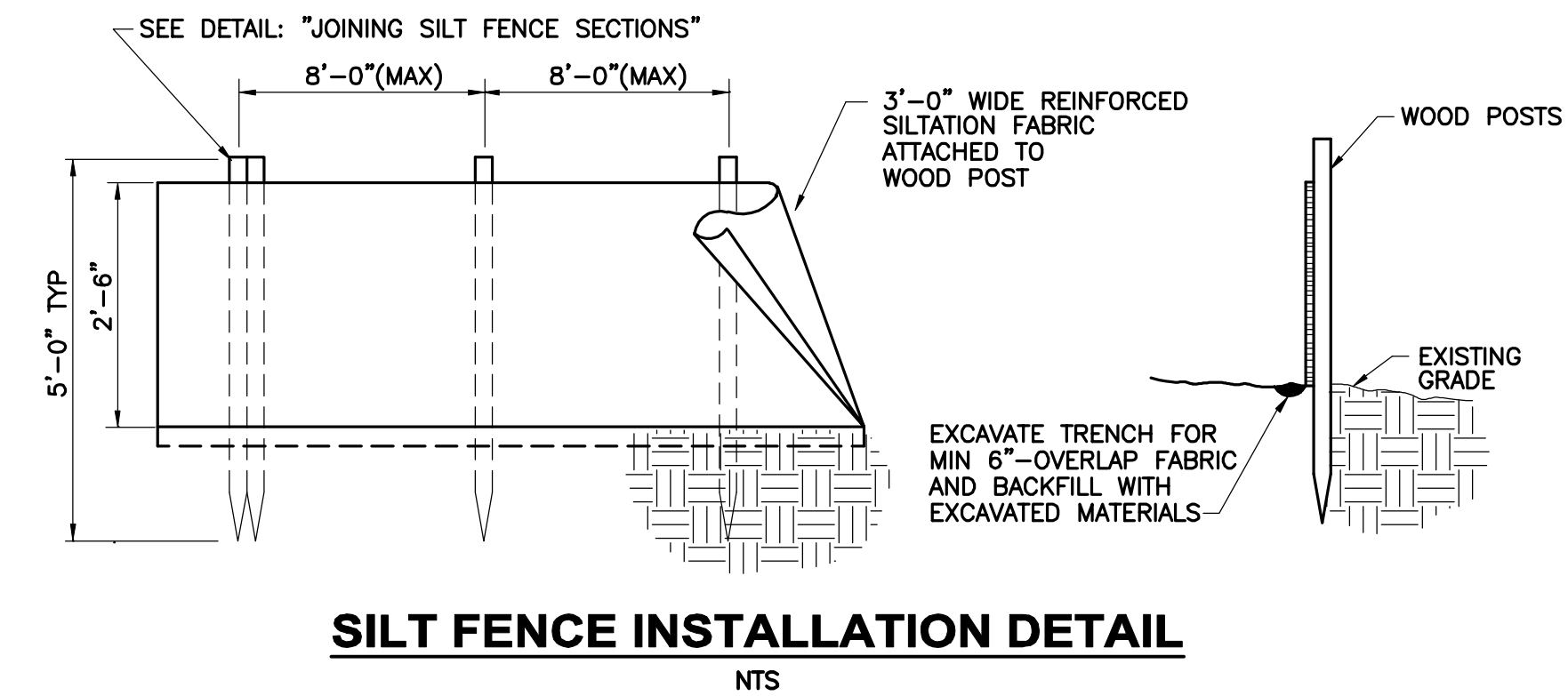
- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH THE NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL AND THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES, ENV-Wq 1500: ALTERATION OF TERRAIN, DECEMBER 2008
- THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE MAINTAINED IN AN UNVEGETATED CONDITION FOR THE MINIMUM TIME REQUIRED. IN GENERAL AREAS TO BE VEGETATED SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL.
- SEDIMENT BARRIERS (SILT FENCE, STONE CHECK DAMS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF UPGRADIENT DRAINAGE AREAS.
- INSTALL SILT FENCE AT TOE OF SLOPES TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION. SILT FENCE WILL REMAIN IN PLACE PER NOTE #5.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSURE. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2 TO 1) UNLESS STABILIZED WITH RIPRAP OR OTHER STRUCTURAL MEANS.
- IF FINAL SEEDING AND SODDING IS NOT EXPECTED PRIOR TO THE ANTICIPATED DATE OF THE FIRST KILLING FROST, USE TEMPORARY ANNUAL RYEGRASS SEEDING AND MULCHING ON ROUGH GRADED SUBSOIL TO PROTECT THE SITE AND DELAY PERMANENT LOAMING, FINE GRADING, AND SEEDING OR SODDING UNTIL SPRING.
- WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISH GRADED SHALL BE COMPLETED 30 DAYS PRIOR TO THE FIRST KILLING FROST.
- DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS. POST SEEDING SEDIMENT, IF ANY, WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.
- REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND REVEGETATED.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED.
- STABILIZATION SCHEDULE BEFORE WINTER:
 - SEPTEMBER 15** ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED. ALL SLOPES MUST BE STABILIZED, SEEDED AND MULCHED. ALL DISTURBED AREAS TO BE PROTECTED WITH AN ANNUAL GRASS MUST BE SEEDED AT A SEEDING RATE OF 3 POUNDS PER 1,000 SQUARE FEET AND MULCHED.
 - OCTOBER 1** ALL GRASS-LINED DITCHES AND CHANNELS MUST BE STABILIZED WITH MULCH OR EROSION CONTROL BLANKET.
 - NOVEMBER 15** ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED. SLOPES THAT ARE COVERED WITH RIPRAP MUST BE CONSTRUCTED BY THAT DATE.
 - DECEMBER 1** ALL DISTURBED AREAS WHERE THE GROWTH OF VEGETATION FAILS TO BE AT LEAST THREE INCHES TALL OR AT LEAST 75% OF THE DISTURBED SOIL IS COVERED BY VEGETATION, MUST BE PROTECTED FOR OVER-WINTER.

EROSION CONTROL – WINTER CONSTRUCTION

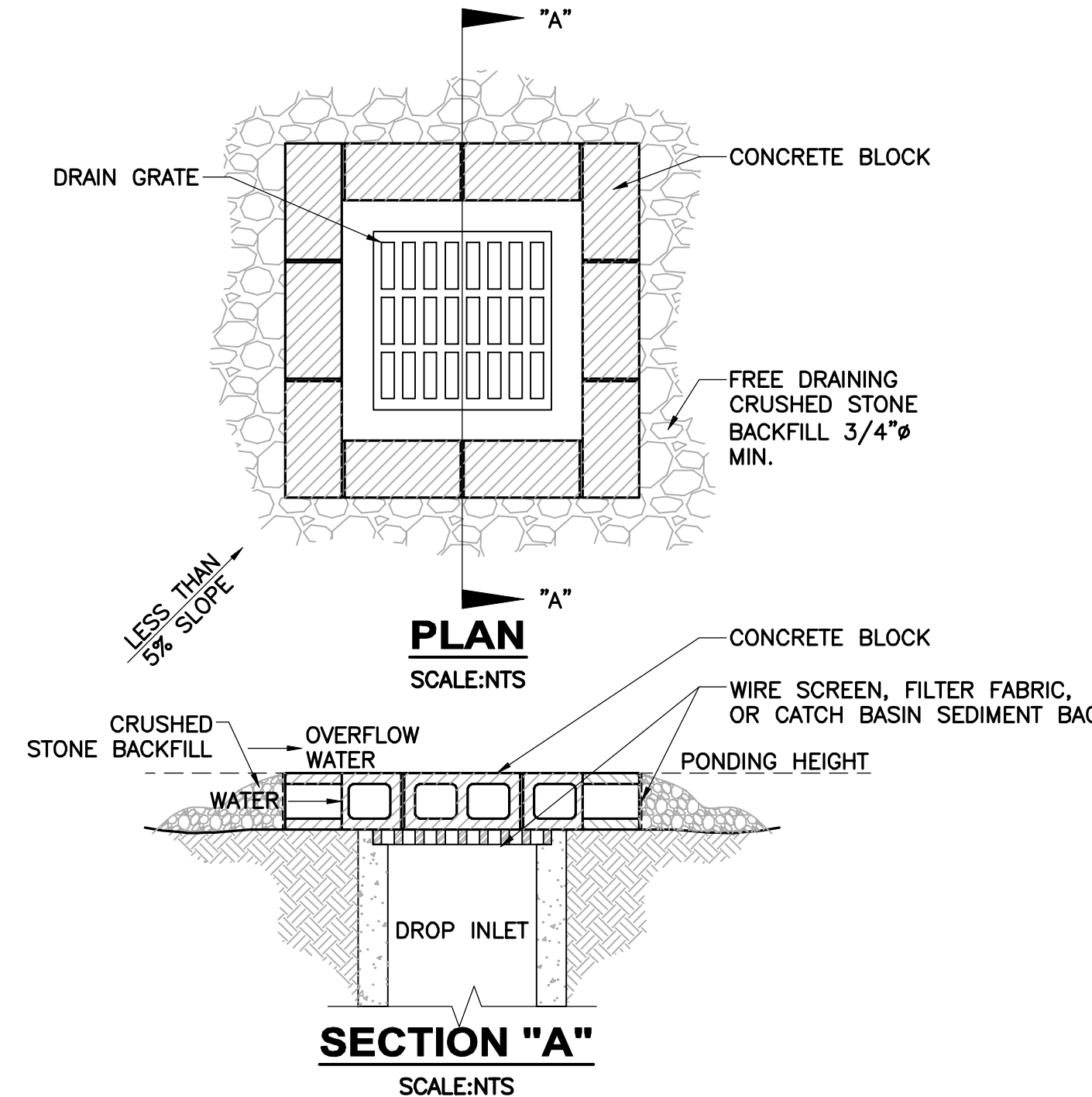
- WINTER CONSTRUCTION PERIOD DEFINED: NOVEMBER 1 THROUGH APRIL 15
- WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- EXPOSED AREA SHOULD BE LIMITED SUCH THAT THE AREA CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
- CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
- AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDED, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE. IN ALL CASES, MULCH SHALL BE APPLIED SUCH THAT SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH.
- BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE-FREEZING TEMPERATURES, THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MUST BE STABILIZED WITH MULCH. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT EXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
 - BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION, CHEMICAL TACK OR WOOD CELLULOSE FIBER.
 - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GRATER THAN 8%.
 - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST, THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- AFTER NOVEMBER 1ST THE CONTRACTOR SHALL APPLY MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
- DURING WINTER CONSTRUCTION PERIODS ALL SNOW SHALL BE REMOVED FROM AREAS OF MULCHING PRIOR TO PLACEMENT.

EROSION CONTROL – WETLAND NOTES

- WETLANDS AND SURFACE WATERS (EXCEPTING THOSE WHICH ARE TO BE FILLED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS) WILL BE PROTECTED WITH SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
- IF THE WORK INCLUDES CROSSING OF WETLANDS AND/OR STREAMS, THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS WORKING IN THESE AREAS
- ANY WETLAND CROSSING WORK SHALL BE COMPLETED BETWEEN THE PERIOD OF MAY 1 AND SEPTEMBER 30
- ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION WITHIN OR ADJACENT TO WETLAND AREAS.
- WETLAND VEGETATIVE LAYERS SHALL BE REMOVED AND SALVAGED FOR RESTORATION OF THE DISTURBED AREAS.
- STORAGE AREAS FOR WETLAND MATERIALS SHALL BE PROPERLY PROTECTED AGAINST EROSION.
- SEEDING OF THE DISTURBED AREAS WITHIN WETLAND AREAS SHALL UTILIZE MIXTURES APPROPRIATE FOR WETLAND AREAS AS OUTLINED IN THE SPECIFICATIONS.

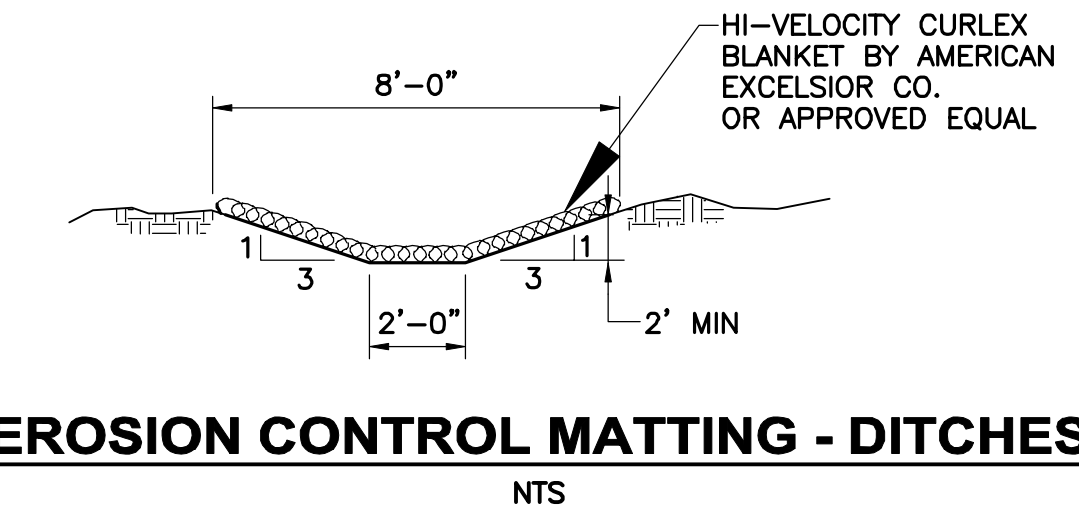


SILT FENCE INSTALLATION DETAIL
NTS



WOOD WASTE/BARK FILTER BERM
NTS

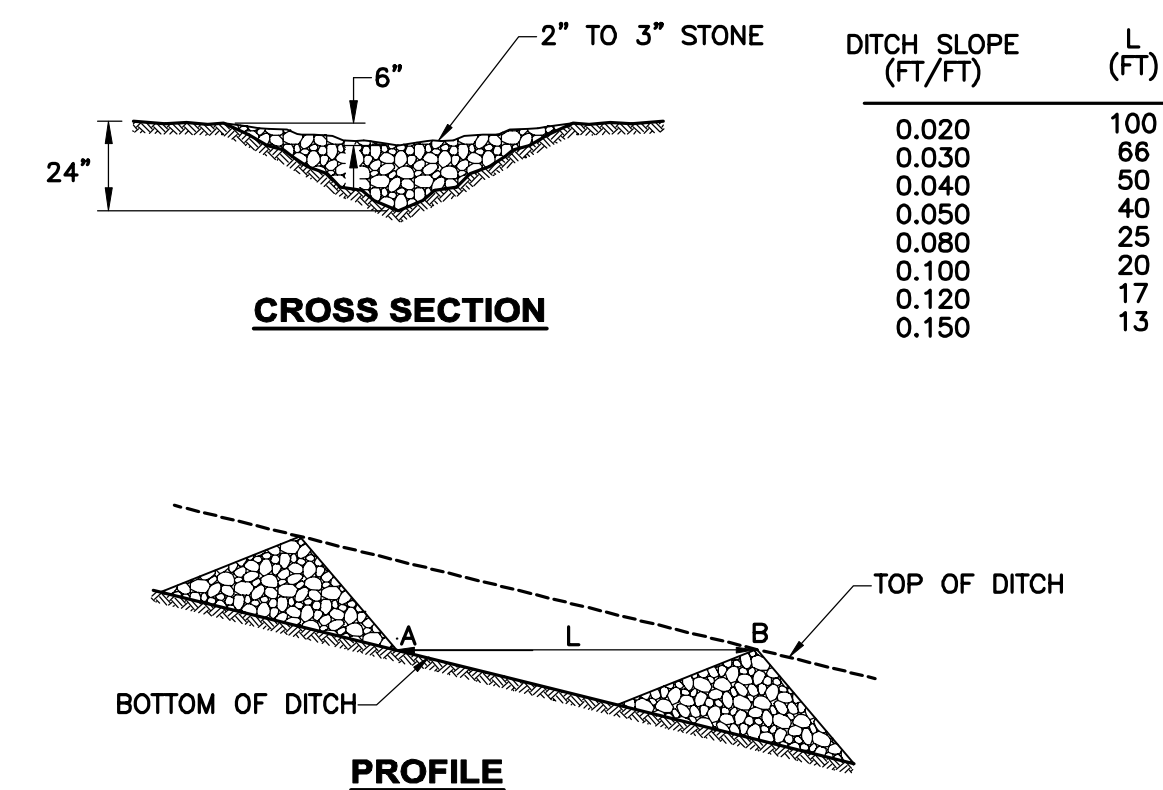
JOINING SILT FENCE SECTIONS
NTS



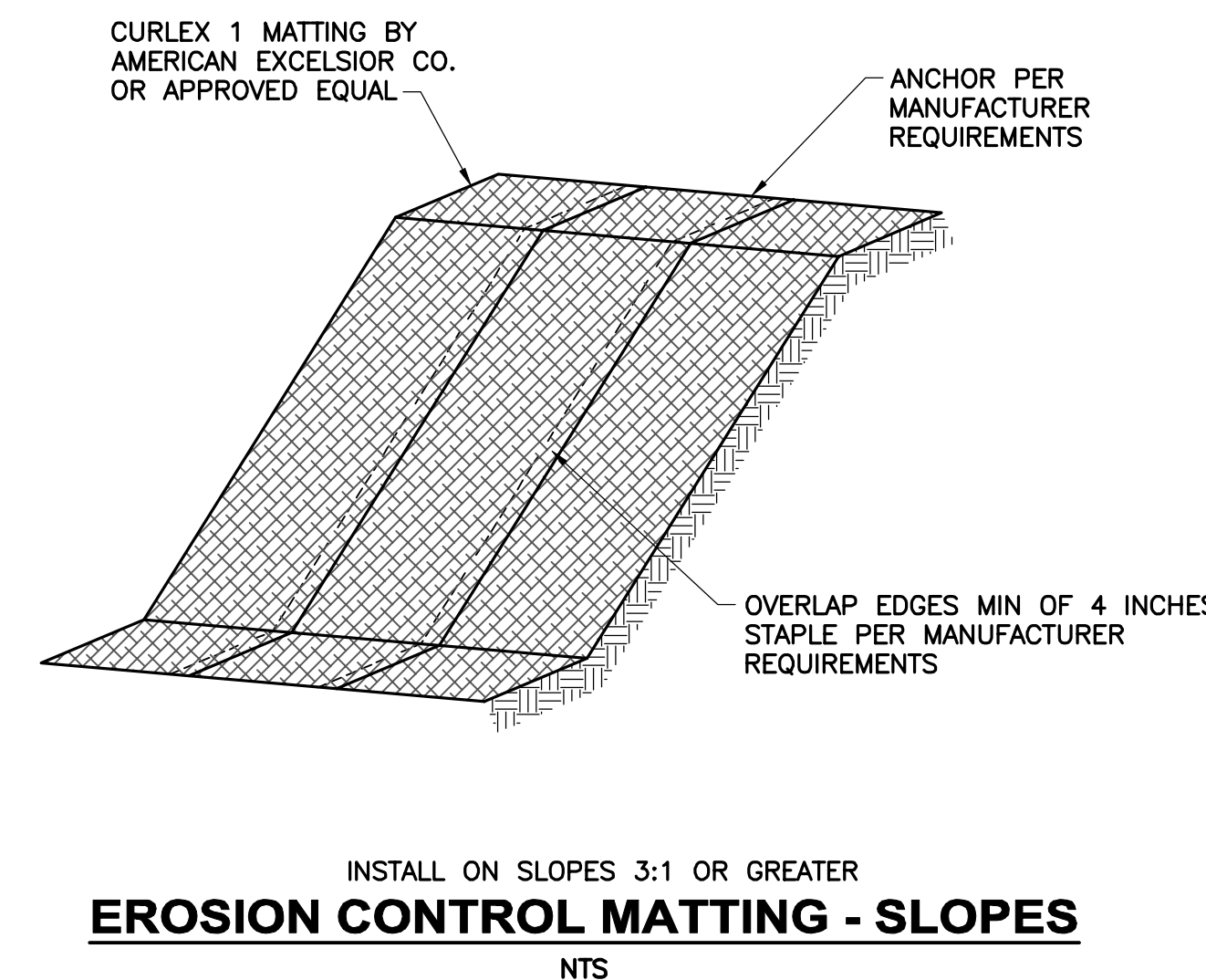
EROSION CONTROL MATTING - DITCHES
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DROP INLET SEDIMENT BARRIER DETAIL

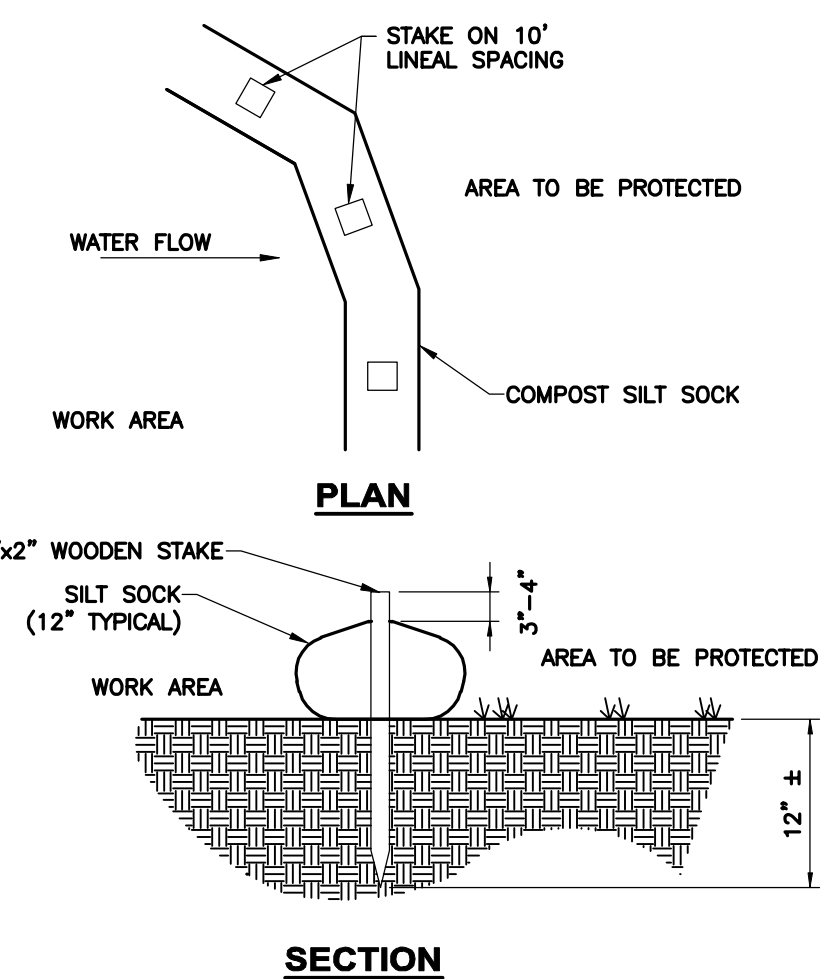
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STONE CHECK DAM DETAIL
NTS



INSTALL ON SLOPES 3:1 OR GREATER
EROSION CONTROL MATTING - SLOPES
NTS



- NOTES:**
- ALL MATERIAL TO MEET SPECIFICATIONS
 - SILT SOCK COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS
 - SILT SOCK DEPICTED IS FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER THE ENGINEER
 - COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

COMPOST SILT SOCK
NTS

NOTES:

- DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS(LESS THAN 3%).
- EXCAVATE A BASIN OF SUFFICIENT SIZE ADJACENT TO THE DROP INLET.
- THE TOP OF THE STRUCTURE, PONDING HEIGHT, MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.
- SILT BAGS MAY ALSO BE USED FOR CB GRATE INLET PROTECTION.

DATE	
APP'D	
SUBMISSIONS/REVISIONS	
NO	
DESIGNED BY:	
CAD. COORD.:	
CHECKED BY:	
DATE:	
APPROVED BY:	
DATE:	
PROJECT NO.:	

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EROSION CONTROL NOTES & DETAILS

DRAWING
C-10

