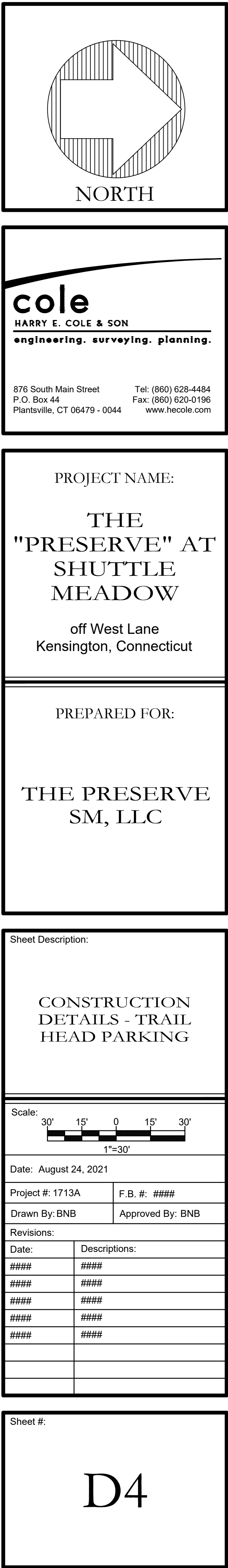
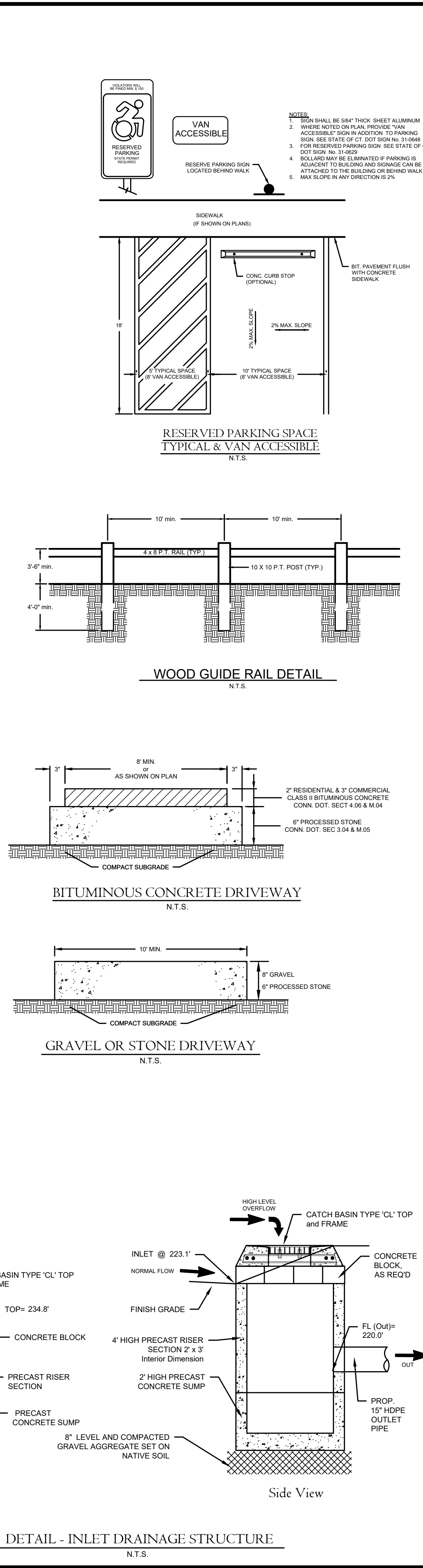
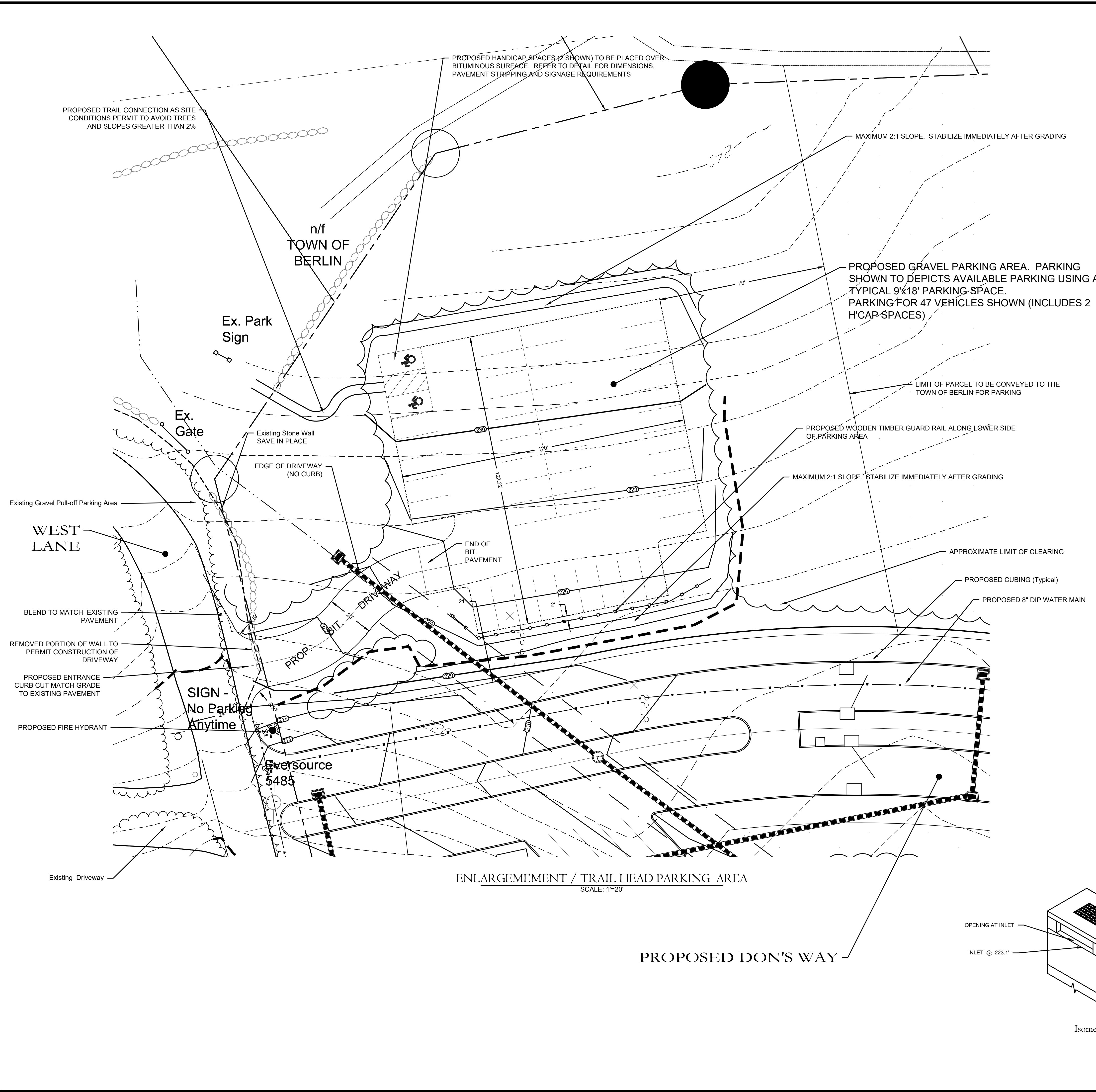
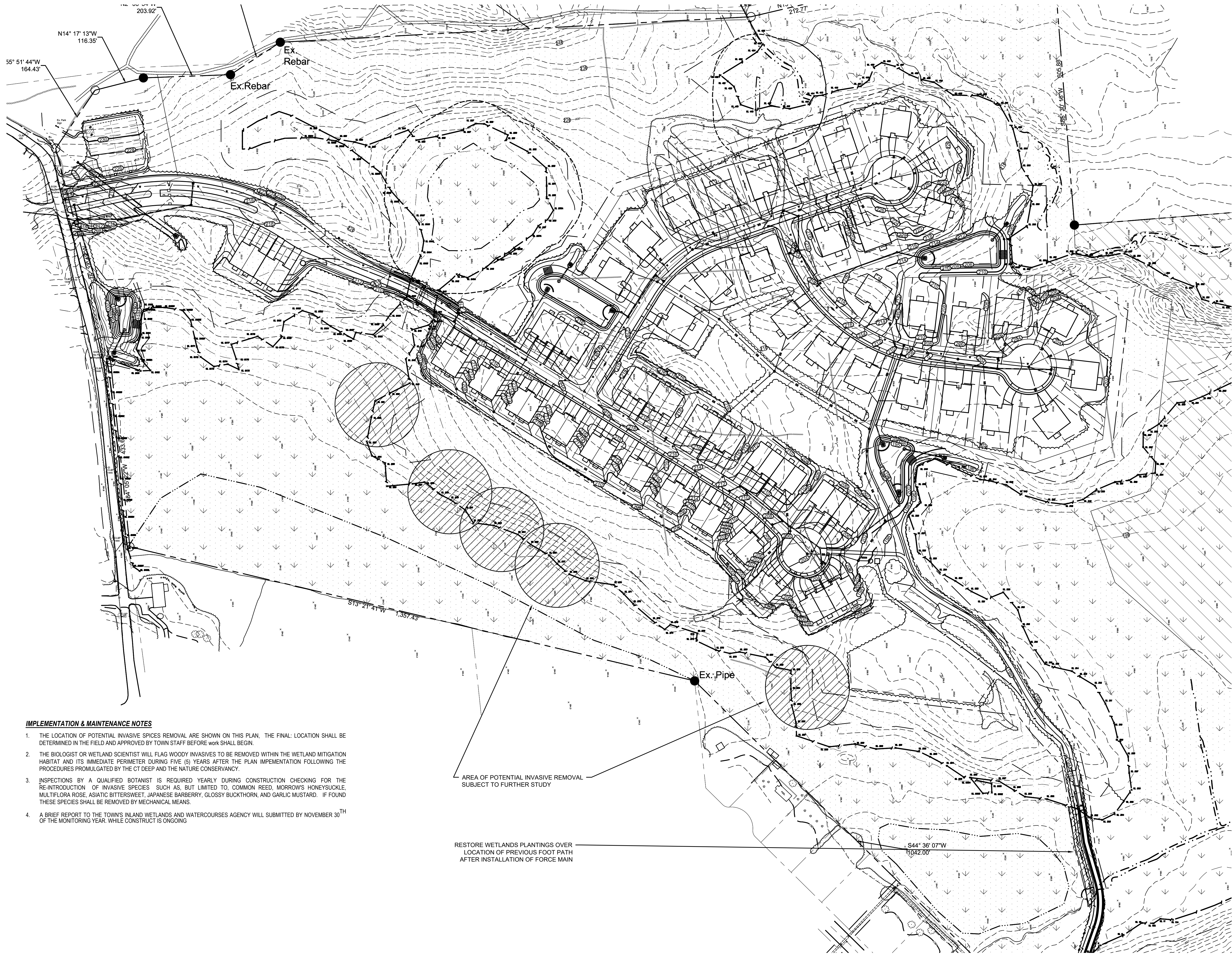


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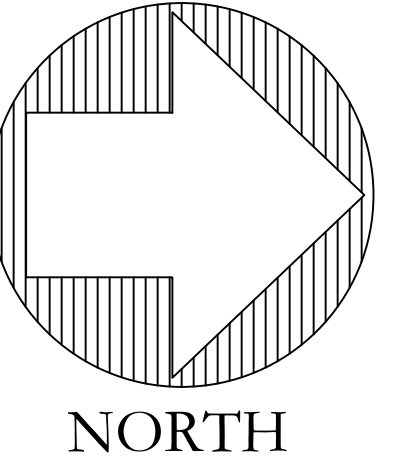


IMPLEMENTATION & MAINTENANCE NOTES

1. THE LOCATION OF POTENTIAL INVASIVE SPICES REMOVAL ARE SHOWN ON THIS PLAN, THE FINAL LOCATION SHALL BE DETERMINED IN THE FIELD AND APPROVED BY TOWN STAFF BEFORE work SHALL BEGIN.
2. THE BIOLOGIST OR WETLAND SCIENTIST WILL FLAG WOODY INVASIVES TO BE REMOVED WITHIN THE WETLAND MITIGATION HABITAT AND ITS IMMEDIATE PERIMETER DURING FIVE (5) YEARS AFTER THE PLAN IMPEMENTATION FOLLOWING THE PROCEDURES PROMULGATED BY THE CT DEEP AND THE NATURE CONSERVANCY.
3. INSPECTIONS BY A QUALIFIED BOTANIST IS REQUIRED YEARLY DURING CONSTRUCTION CHECKING FOR THE RE-INTRODUCTION OF INVASIVE SPECIES SUCH AS: BUT LIMITED TO, COMMON REED, MORROWS HONEYSUCKLE, MULTIFLORA ROSE, ASIATIC BITTERSWEET, JAPANESE BARBERRY, GLOSSY BUCKTHORN, AND GARLIC MUSTARD. IF FOUND THESE SPECIES SHALL BE REMOVED BY MECHANICAL MEANS.
4. A BRIEF REPORT TO THE TOWN'S INLAND WETLANDS AND WATERCOURSES AGENCY WILL SUBMITTED BY NOVEMBER 30TH OF THE MONITORING YEAR, WHILE CONSTRUCT IS ONGOING

AREA OF POTENTIAL INVASIVE REMOVAL
SUBJECT TO FURTHER STUDY

RESTORE WETLANDS PLANTINGS OVER
LOCATION OF PREVIOUS FOOT PATH
AFTER INSTALLATION OF FORCE MAIN



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PROJECT NAME:

THE
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SHUTTLE
MEADOW

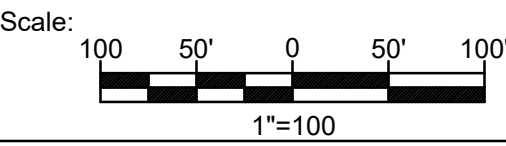
off West Lane
Kensington, Connecticut

PREPARED FOR:

THE PRESERVE
SM, LLC

Sheet Description:

INVASIVE PLANT
SPECIES REMOVAL
PLAN



Date: August 24, 2021

Project #: 1713A

F.B. #: ####

Drawn By: BNB

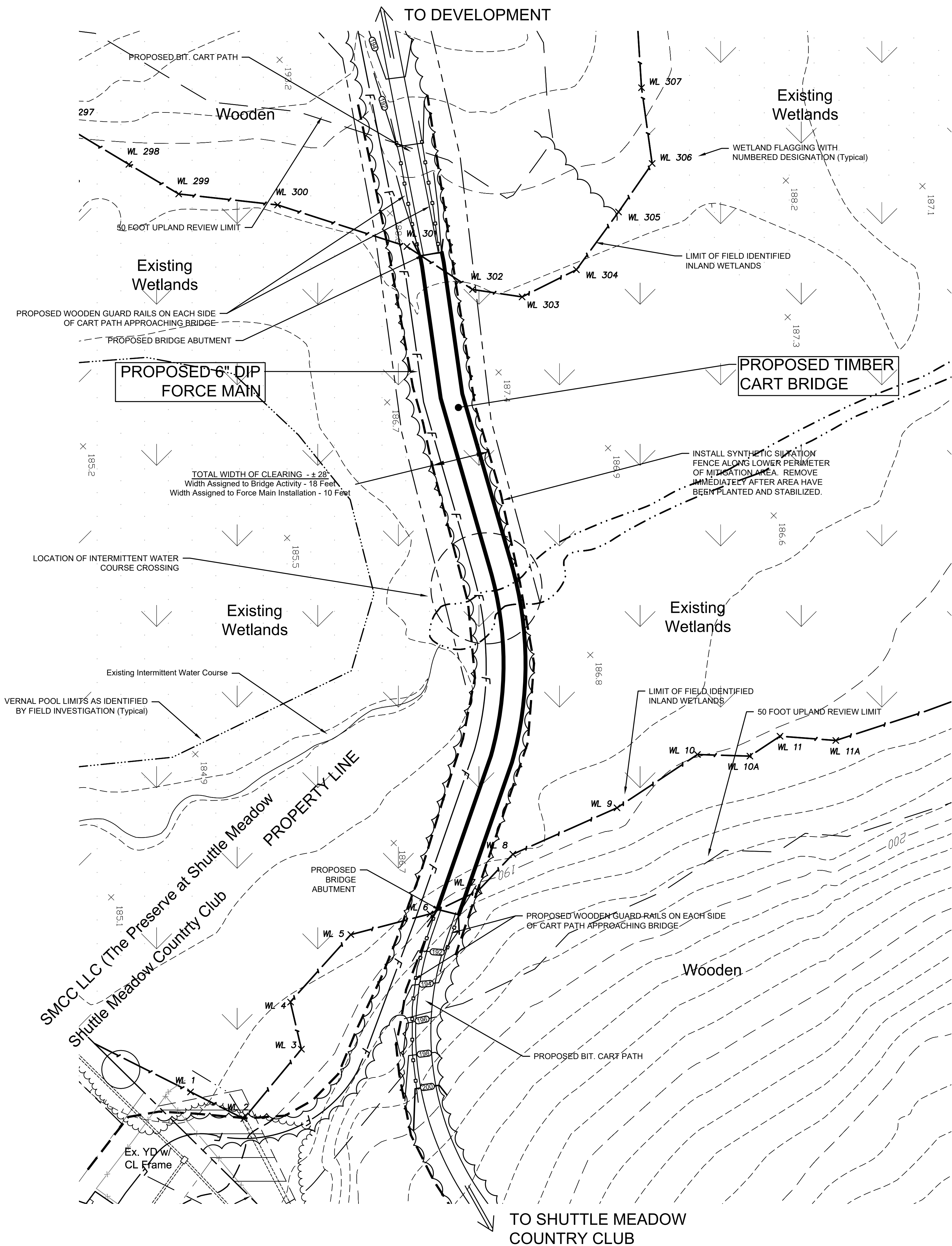
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Revisions:

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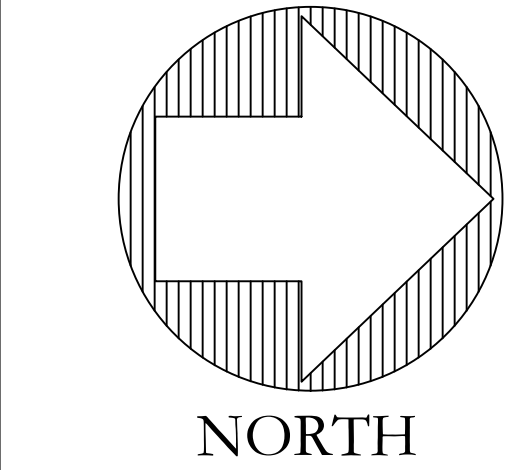
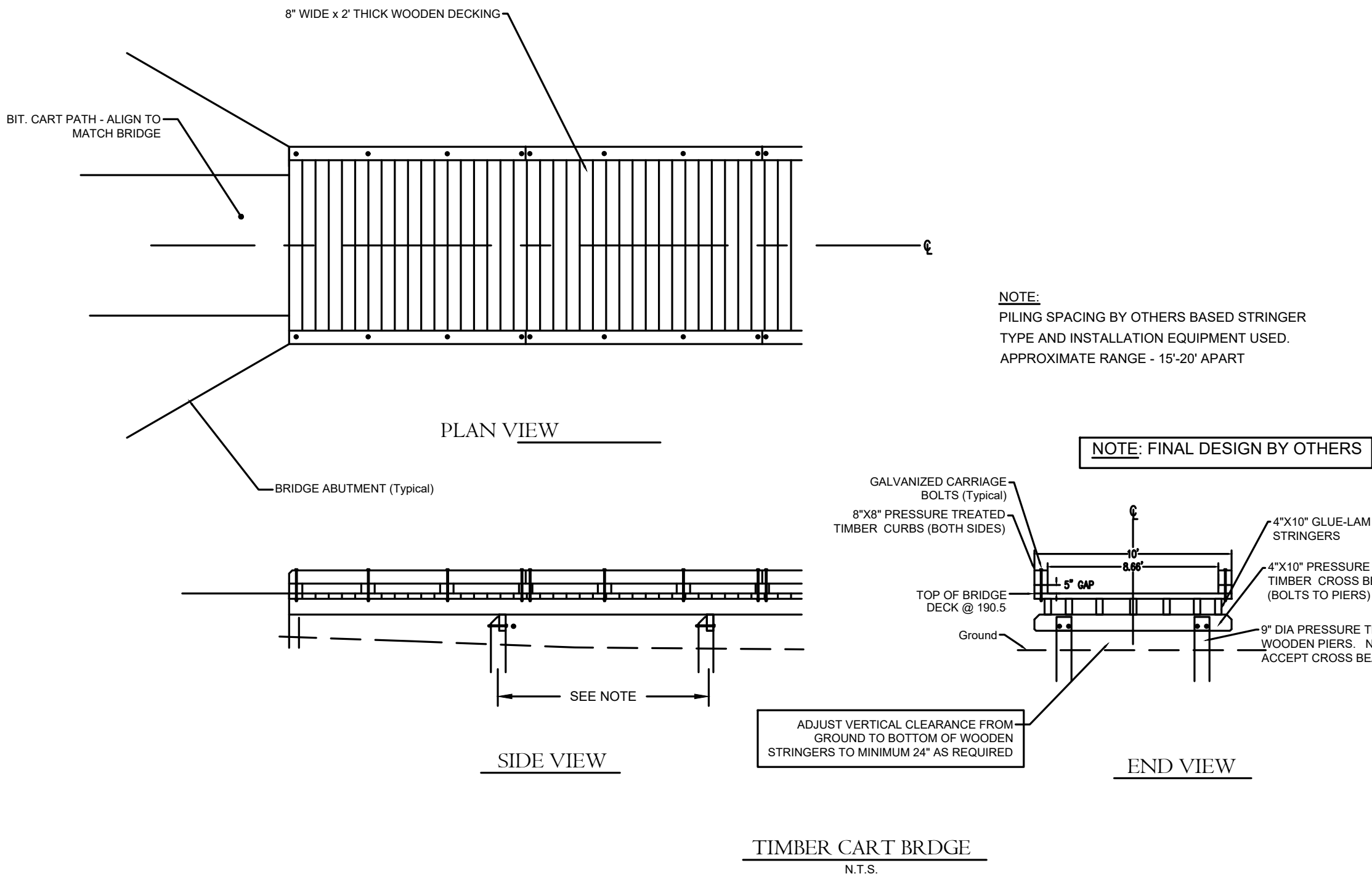
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IMPLEMENTATION & MAINTENANCE NOTES

- ALL LIMITS OF CLEARING SHALL BE STAKED IN THE FIELD BY A LICENSED LAND SURVEYOR. ANY AREA WHERE ADJUSTMENTS TO THE ALIGNMENT OF THE BRIDGE OR FORCE MAIN CROSSING MAY BE NECESSARY DUE TO LARGE TREES OR OTHER PHYSICAL FEATURES SHALL BE APPROVED BY THE ENGINEER, THE BIOLOGIST AND TOWN WETLANDS AGENT.
- SYNTHETIC SILTATION FENCE SHALL BE INSTALLED ON EITHER SIDE OF THE CLEARING. PRIOR TO THE START OF CLEARING. BRUSH AND TREES SHALL BE REMOVED BY HAND. NO LARGE VEHICLES SHALL BE USED WITHIN THE WETLANDS. ANY DAMAGED FENCING SHALL BE IMMEDIATELY REPAIRED OR REPLACED, AS REQUIRED.
- NO STUMPS OR ROOTS SHALL BE REMOVED, EXCEPT THOSE IMPACTED BY TRENCHING. TREES SHALL BE CLEARED AS CLOSE TO GROUND LEVEL AS POSSIBLE.
- THE BRIDGE SHALL BE STARTED WITH THE CONSTRUCTION OF THE END ABUTMENTS, ACCESSING FROM EITHER END OF THE CART PATH. THE CONSTRUCTION OF THE BRIDGE SHALL BE FROM THE INSTALLED DECK LEVEL. THIS INCLUDES THE INSTALLATION OF VERTICAL PILING, WHICH SHALL BE DRIVEN FROM THE DECK USING SPECIALITY CONSTRUCTION EQUIPMENT. THE ONLY ACTIVITY WITHIN THE WETLANDS WILL BE WORKERS ON FOOT. ANY IMPACTS CREATED BY FOOT WORKERS SHALL BE RESTORE TO ORIGINAL CONDITION.
- NO PILINGS SHALL BE INSTALLED WITH THE CROSSING OF THE INTERMITTENT WATER COURSE. THE SPACING OF PILING SHALL BE ADJUSTED TO AVOID THIS SITUATION IN THE FIELD.
- THE INSTALLATION OF THE FORCE MAIN SHALL BE TO DEPTH OF 4.5 FEET OF PIPE COVERAGE. ONLY SMALL EQUIPMENT WILL BE PERMITTED WITHIN THE WETLANDS TO EXCAVATE TRENCHES AND BACKFILL. NO STOCKPILING OF CONSTRUCTION MATERIAL WILL BE PERMITTED WITH THE WETLAND. TEMPORARY STOCKPILING OF EXCAVATED MATERIALS SHALL BE LIMITED TO THE IMMEDIATE AREA OF INSTALLATION. EXCESS MATERIALS SHALL NOT REMAIN WITHIN THE WETLAND AND SHALL BE TRANSPORTED TO AN APPROVED LOCATION WITHIN THE SITE FOR DISPOSAL. ALL OPEN TRENCH AREAS SHALL NOT BE GREATER THAN 50 FEET IN LENGTH.
- CROSSING OF ANY INTERMITTENT WATER COURSE SHALL REQUIRE TEMPORARY PUMPING OF THE WATER FLOW IN A MANNER DIRECTED BY THE ENGINEER, AND APPROVED BY THE TOWN'S WETLANDS AGENT. NO WORK SHALL BE STARTED IN THE EVENT OF ANTICIPATED RAINS OR SEASONALLY HIGH-WATER FLOW. IF GROUNDWATER IS ENCOUNTERED DURING TRENCHING, WATER SHALL BE PUMPED INTO SILTATION BAGS, AND DUMPED IN AN APPROVED LOCATION WITH THE SITE. HAYBALE CHECKS SHALL BE INSTALLED ACROSS AT THE LOWER SIDE WHEREVER THE FORCE MAIN CROSSES AN INTERMITTENT WATER COURSE TO PREVENT DAMAGE TO THE WATERCOURSE AND ADJACENT WETLAND AREAS. UPON COMPLETION OF THE FORCE MAIN IMPACT AREA, SHALL BE RESTORED TO ORIGINAL GRADE AND CONDITION BY HAND RAKING AND SEEDED, USING WETLAND TYPE SEED MIXTURE.
- ALL TRENCHING AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL GRADE. PREVIOUSLY EXCAVATED WETLAND SOILS SHALL BE REUSED WHEN RESTORING THE DISTURBED AREA. WETLAND TYPE SEED MIXTURE SHALL BE USED FOR ALL RESTORED AREAS UPON FINAL HAND REGRADING.
- A 1-INCH TOP DRESSING CONSISTING OF 2-YEAR OLD COMPOST SHALL BE APPLIED TO ALL RESTORED AREAS.
- SPREAD A THIN LAYER OF STRAW MULCH OVER ALL RESTORED OR SEEDED AREAS WITHOUT STANDING WATER, ALLOWING SOME LIGHT PENETRATION.
- THE WETLAND BIOLOGIST OR WETLAND SCIENTIST SHALL INSPECT THE SITE WITHIN 6 WEEKS AFTER PLAN THE COMPLETION OF WORK TO MONITOR THE CONDITIONS OF ALL RESTORED AREAS.
- THE BIOLOGIST OR WETLAND SCIENTIST WILL FLAG WOODY INVASIVE TO BE REMOVED WITHIN RESTORATION AREA FIVE (5) YEARS AFTER CONSTRUCTION FOLLOWING THE PROCEDURES PROMULGATED BY THE CT DEEP AND THE NATURE CONSERVANCY.
- INSPECTIONS BY A QUALIFIED WETLAND PROFESSIONAL OR BIOLOGIST SHALL TAKE PLACE DURING THE GROWING SEASON, ONCE FOLLOWING INSTALLATION, AND ONCE DURING EACH OF THE FIVE (5) NEXT GROWING SEASONS, IN LATE MAY THROUGH JUNE. ADDITIONAL INSPECTIONS MAY BE NECESSARY AT THE DISCRETION OF THE WETLAND SCIENTIST TO ENSURE THE SUCCESS OF THE WETLAND HABITAT CREATION.
- DURING INSPECTIONS, CHECK MITIGATION AREA FOR SEEDLINGS OF INVASIVE SPECIES AND MECHANICALLY REMOVE. THESE SPECIES INCLUDE, BUT ARE NOT LIMITED TO, COMMON RED, MORROW'S HONEYSUCKLE, MULTIFLORA ROSE, ASIATIC BITTERSWEET, JAPANESE BARBERRY, GLOSSY BUCKTHORN, AND GARLIC MUSTARD. INSPECTIONS SHALL BE DONE BY THE WETLANDS PROFESSIONAL, WHO COULD ALSO IDENTIFY OTHER INVASIVE PLANT SPECIES, BUT PERSONNEL TRAINED BY THE PROFESSIONAL. IDENTIFICATION OF INVASIVE SEEDLINGS MAY ASSIST WITH MECHANICAL REMOVAL (WEEDING).
- A BRIEF REPORT TO THE TOWN'S INLAND WETLANDS AND WATERCOURSES AGENCY WILL SUBMITTED BY NOVEMBER 30TH OF THE MONITORING YEAR.
- THE CONDOMINIUM ASSOCIATION AND THE SHUTTLE MEADOW COUNTRY CLUB SHALL MAINTAIN THE BRIDGE ON A YEARLY BASIS TO MINIMIZE THE SIGNIFICANT STRUCTURAL ISSUES WHICH WILL REQUIRE ADDITIONAL PERMITTING REQUIREMENTS. THE BRIDGE AREA SHALL BE TRIMMED ON A YEARLY BASIS BY HAND OF ANY BRUSH OR TREE REGROWTH THAT MAY IMPACT THE FUNCTION OR THE STRUCTURALLY INTEGRITY OF THE BRIDGE. IN ADDITION, LOSE BOLTS OR FASTENERS SHALL BE TIGHTENED. ANY WORK DONE BY FOOT IN THE WETLANDS SHALL BE RESTORED TO ORIGINAL CONDITIONS AND OVERSEEDED WITH WETLAND TYPE SEED MIXTURE.
- REPLACEMENT OF DECKING AND CURBS SHALL BE DONE FROM THE DECK LEVEL, AND NOT REQUIRE AND IMPACT WITHIN THE WETLANDS.
- IN THE FUTURE EVENT THAT THE BRIDGE STRUCTURE WILL REQUIRE REPLACEMENT, A PERMIT FROM THE TOWN OF BERLIN INLAND WETLANDS AD WATERCOURSES COMMISSION, OR THEIR SUCCESSOR, SHALL BE REQUIRED.



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PROJECT NAME:

THE
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SHUTTLE
MEADOW

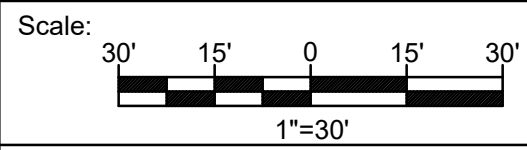
off West Lane
Kensington, Connecticut

PREPARED FOR:

THE PRESERVE
SM, LLC

Sheet Description:

CONSTRUCTION
DETAILS - WOODEN
CART BRIDGE AND
FORCE MAIN
WETLAND
CROSSING



Date: August 24, 2021

Project #: 1713A

F.B. #: #####

Drawn By: BNB

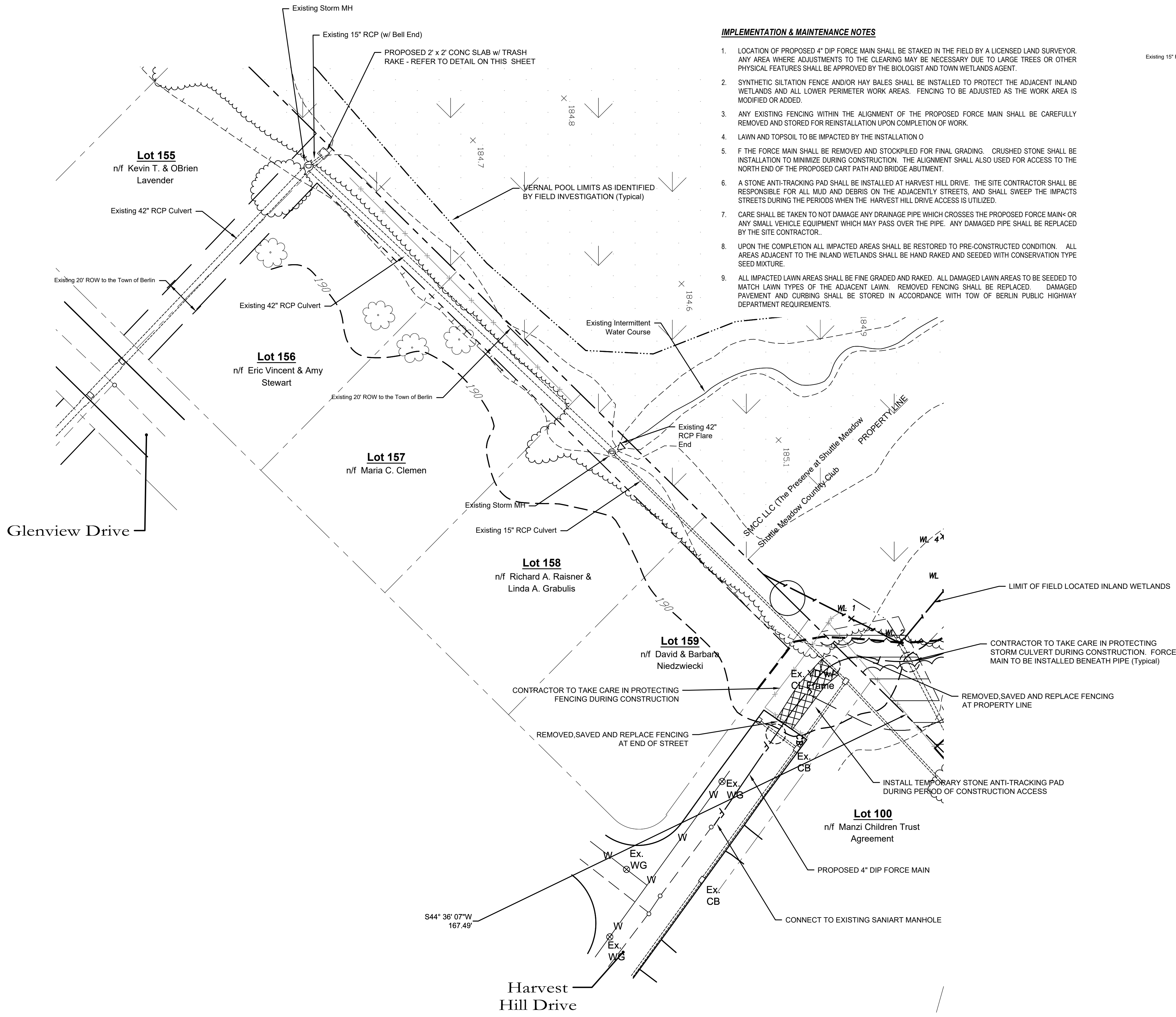
Approved By: BNB

Revisions:

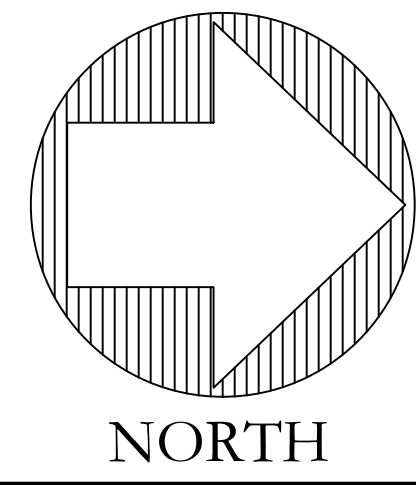
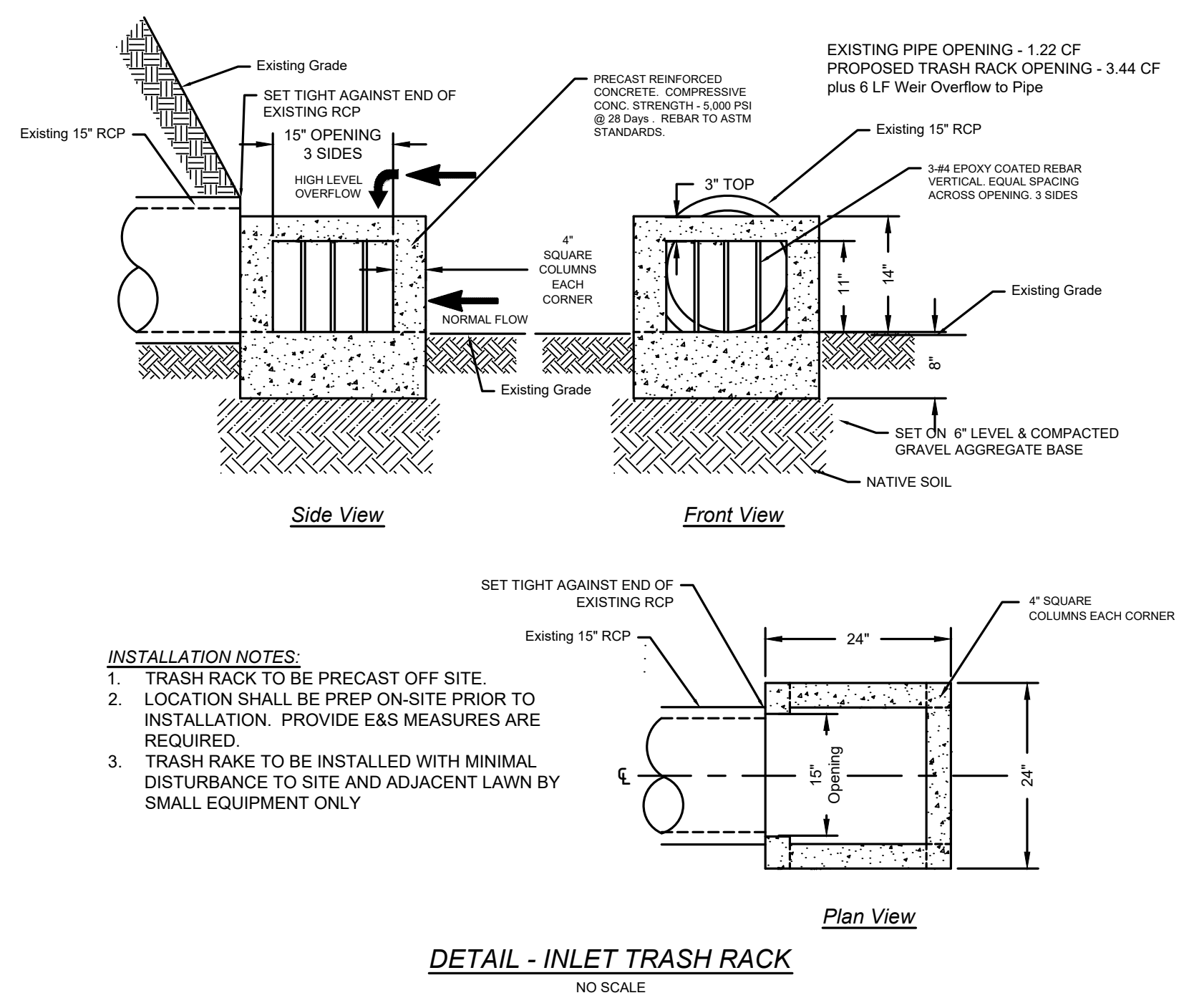
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- IMPLEMENTATION & MAINTENANCE NOTES**
1. LOCATION OF PROPOSED 4" DIP FORCE MAIN SHALL BE STAKED IN THE FIELD BY A LICENSED LAND SURVEYOR. ANY AREA WHERE ADJUSTMENTS TO THE CLEARING MAY BE NECESSARY DUE TO LARGE TREES OR OTHER PHYSICAL FEATURES SHALL BE APPROVED BY THE BIOLOGIST AND TOWN WETLANDS AGENT.
 2. SYNTHETIC SILTATION FENCE AND/OR HAY BALES SHALL BE INSTALLED TO PROTECT THE ADJACENT INLAND WETLANDS AND ALL LOWER PERIMETER WORK AREAS. FENCING TO BE ADJUSTED AS THE WORK AREA IS MODIFIED OR ADDED.
 3. ANY EXISTING FENCING WITHIN THE ALIGNMENT OF THE PROPOSED FORCE MAIN SHALL BE CAREFULLY REMOVED AND STORED FOR REINSTALLATION UPON COMPLETION OF WORK.
 4. LAWN AND TOPSOIL TO BE IMPACTED BY THE INSTALLATION O
 5. F THE FORCE MAIN SHALL BE REMOVED AND STOCKPILED FOR FINAL GRADING. CRUSHED STONE SHALL BE INSTALLATION TO MINIMIZE DURING CONSTRUCTION. THE ALIGNMENT SHALL ALSO USED FOR ACCESS TO THE NORTH END OF THE PROPOSED CART PATH AND BRIDGE ABUTMENT.
 6. A STONE ANTI-TRACKING PAD SHALL BE INSTALLED AT HARVEST HILL DRIVE. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MUD AND DEBRIS ON THE ADJACENTLY STREETS, AND SHALL SWEEP THE IMPACTS STREETS DURING THE PERIODS WHEN THE HARVEST HILL DRIVE ACCESS IS UTILIZED.
 7. CARE SHALL BE TAKEN TO NOT DAMAGE ANY DRAINAGE PIPE WHICH CROSSES THE PROPOSED FORCE MAIN< OR ANY SMALL VEHICLE EQUIPMENT WHICH MAY PASS OVER THE PIPE. ANY DAMAGED PIPE SHALL BE REPLACED BY THE SITE CONTRACTOR..
 8. UPON THE COMPLETION ALL IMPACTED AREAS SHALL BE RESTORED TO PRE-CONSTRUCTED CONDITION. ALL AREAS ADJACENT TO THE INLAND WETLANDS SHALL BE HAND RAKED AND SEEDED WITH CONSERVATION TYPE SEED MIXTURE.
 9. ALL IMPACTED LAWN AREAS SHALL BE FINE GRADED AND RAKED. ALL DAMAGED LAWN AREAS TO BE SEEDED TO MATCH LAWN TYPES OF THE ADJACENT LAWN. REMOVED FENCING SHALL BE REPLACED. DAMAGED PAVEMENT AND CURBING SHALL BE STORED IN ACCORDANCE WITH TOW OF BERLIN PUBLIC HIGHWAY DEPARTMENT REQUIREMENTS.



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PROJECT NAME:

**THE
"PRESERVE" AT
SHUTTLE
MEADOW**

off West Lane
Kensington, Connecticut

PREPARED FOR:

**THE PRESERVE
SM, LLC**

Sheet Description:

**CONSTRUCTION
DETAILS - HARVEST
HILL & GLENVIEW
DRIVE AREA**

Scale: 30' 15' 0 15' 30' 1"=30'	
Date: August 24, 2021	
Project #: 1713A	F.B. #: #####
Drawn By: BNB	Approved By: BNB
Revisions:	
Date:	Descriptions:
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