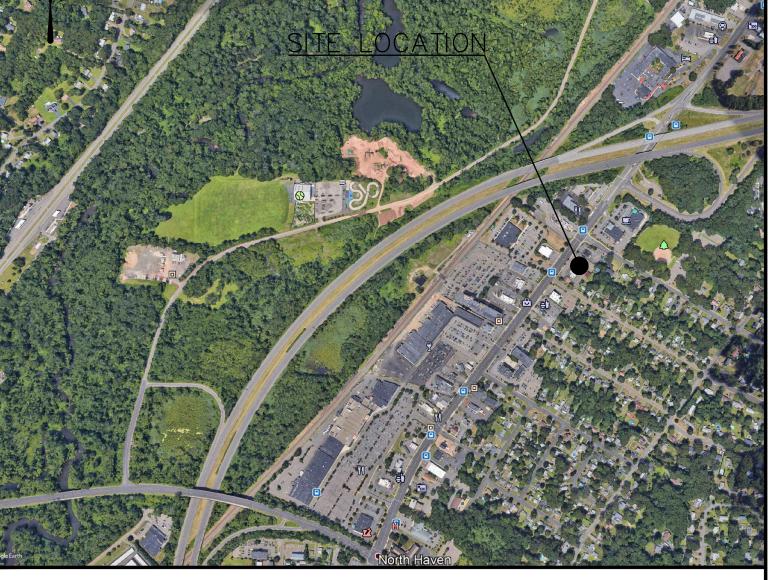


LAND DEVELOPMENT PLANS ISSUED FOR CONSTRUCTION

PROPOSED DEVELOPMENT 144 WASHINGTON AVE (ROUTE 5) NORTH HAVEN, CONNECTICUT (#P21-10, SITE PLAN APPROVAL & #P21-18, SITE PLAN APPROVAL)



VICINITY MAP

PREPARED FOR:

144 WASHINGTON AVENUE, LLC 34 LLOYD STREET NEW HAVEN, CONNECTICUT

PREPARED BY:



ARCHITECTURE **ENGINEERING** ENVIRONMENTAL LAND SURVEYING

100 CONSTITUTION PLAZA, 10TH FLOOR HARTFORD, CONNECTICUT 06103 (860) 249-2200

(860) 249-2400 Fax

REVISION DATES:

ISSUE DATE: MAY 10, 2021 REVISION: 1 BULLETIN #1 - SITE REVISIONS BULLETIN #2 - 12' WIDE DRIVE THRU LANES 5/04/2021

BULLETIN #3 - ADDRESS TOWN COMMENTS BULLETIN #4 - ADDRESS TOWN COMMENTS 5/15/2021 BULLETIN #5 - RFI REVISIONS
BULLETIN #6 - REVISED TRASH ENCLOSURE DETAILS BULLETIN #7 - LANDSCAPE AND VARIANCE NOTE BULLETIN #8 - RESPONSE TO RFIS

BULLETIN #9 - RESPONSE TO CT DOT COMMENTS 7/08/2021 BULLETIN #10 - COA LETTER AND CHANGE OF USE 8/20/2021 BULLETIN #11 - TENANT SITE IMPROVEMENTS 8/24/2021

BULLETIN #12 - DRIVEWAY ISLANDS 12 10/01/2021 BULLETIN #13 - REVISED WATER LINE CONNECTIONS 14 10/15/2021 BULLETIN #14 - CATCH BASIN IN DRIVEWAY

15 11/03/2021 BULLETIN #15 - REVISIONS TO GRADING 16 11/15/2021 BULLETIN #16 - REVISIONS TO GRADING

17 12/02/2021 BULLETIN #17 - TENANT A PARKING SIGNS 18 12/09/2021 BULLETIN #18 - REVISED TRANSFORMER LAYOUT 19 1/07/2022 BULLETIN #19 - STARBUCKS REVISIONS

LOCATION MAP

SITE PLAN APPLICATION APPROVAL LETTER:



TOWN OF NORTH HAVEN



11 May 2021

Mr. Carmine Capasso 144 Washington Avenue, LLC 34 Lloyd Street New Haven, CT 06513

RE: #P21-10 Site Plan Application of 144 Washington Avenue, LLC, Applicant & Owner, relative to 146 Washington Avenue, 5 Monroe Street & 8 Blakeslee Avenue, (Map 73, Lots 34, 35 & 32). Plan Entitled: Proposed Development, 144 Washington Ave (Route 5), North Haven, Connecticut. Prepared By: BL Companies. Dated: 04/08/2021, rev. 4/28/2021. Scale: 1"=20'. CB-20/R-12 Zoning Districts.

Dear Mr. Capasso,

At the regular monthly meeting of the North Haven Planning and Zoning Commission held on Monday, May 3, 2021 the Commission voted unanimously to approve the above referenced application subject to the following conditions:

- 1. Submit revised plans which include:
- a. A note indicating "#P21-10, Site Plan Approval".
- b. A note indicating there will be no outdoor storage on the site. c. Indication that all lawn and landscaped areas will be serviced by an automatic
- d. Actual proposed building height in zoning data table. e. Size and location of any proposed ground mounted mechanical and/or electrical
- f. A note on Sheet LL-1 indicating that any landscape material changes must receive
- prior approval from North Haven Land Use staff. g. Revised drawing index to indicate that Sheet DN-3 is not a DOT Detail Sheet.
- h. Revised required side yard setback to 15'.
- i. A note indicating all variances previously granted by the ZBA. j. Revised lighting layout to eliminate light trespass on adjacent properties.
- k. One (1) minimum 2" caliper deciduous tree in all islands at ends of rows of parking.
- 1. Protective bollards at all outdoor seating areas. m. Additional signage or pavement markings to discourage exiting traffic from using
- n. Flatten drive thru curves where possible, and widen both lanes to a minimum of 12' each.
- o. Relocate infiltration system to allow additional catch basins to drain into system.

a. Additional landscaped island in southernmost parking row to reduce to 16 consecutive

p. Sanitary clean-outs at all changes in direction on sanitary laterals and at a maximum of

- 2. This approval is contingent on the approval of the State of Connecticut D.O.T. for traffic and drainage conditions.
- 3. Provide soil testing data to confirm that sufficient infiltration capacity is available
- 4. Soil and erosion controls must be inspected by the Zoning Enforcement Officer
- 5. The property owner, and/or his/her agents, must maintain (repair/replace) when necessary, the siltation control until all development activity is completed and all disturbed areas are permanently stabilized.
- 6. Any proposed signage or fencing will require the filing of applications with the Zoning Enforcement Officer.
- 7. Submit an as-built plan prior to bond release.
- 8. Post bond in the amount of \$12,000.00.

Variations from the approved plans must be addressed/discussed with appropriate Town staff prior to construction.

Please note that one (1) set of revised drawings should be submitted for review after all outstanding issues (conditions of approval as set forth above), are adequately addressed. If there are any questions relative to the conditions of approval, please call the Town prior to submitting the revised plans. This will avoid costly and time consuming revisions and reviews, therefore, expediting the process for you as the applicant.

This approval will expire on 13 May 2022. The Planning and Zoning Commission may grant no more than two (2) six month extensions to this approval.

This approval is subject to compliance with any and all Zoning Regulations of the Town of North

You may not proceed with this approval until you have received a signed plan from the Land Use Office.

Respectfully, Vern E. Carlson, Chairman Planning & Zoning Commission VEC/pm

cc: First Selectman

CERTIFIED MAIL RETURN RECEIPT

CONTENTS

TITLE SHEET EX-1 **EXISTING CONDITIONS PLAN** GN-1 GENERAL NOTES

DM-1 DEMOLITION PLAN SP-1 SITE PLAN

GD-GRADING AND DRAINAGE PLAN SU-1 SITE UTILITIES PLAN

SU-2 SITE CONDUIT COORDINATION PLAN EC-1 SEDIMENT AND EROSION CONTROL PLAN

EC-2 SEDIMENT AND EROSION CONTROL NOTES EC-3 SEDIMENT AND EROSION CONTROL DETAILS EC-4 SEDIMENT AND EROSION CONTROL DETAILS

LL-1 LANDSCAPING PLAN

LL-2 LANDSCAPING NOTES AND DETAILS

LP-1 LIGHTING PLAN DN-1-3 DETAILS SHEET

DN-4-14 DETAILS SHEET - CT DOT STANDARDS DN-15 DETAILS SHEET - CDS STANDARD DETAIL DN-16 DETAILS SHEET - STORMTECH CHAMBER DN-17 DETAILS SHEET - SIGNAGE FOUNDATIONS DN-18

DN-19-21

DETAILS SHEET - CT DOT SIGNAL PLAN DETAILS SHEET - TENANT A DETAILS

144 WASHINGTON AVENUE, LLC CONTACT: CARMINE CAPASSO

NEW HAVEN, CONNECTICUT

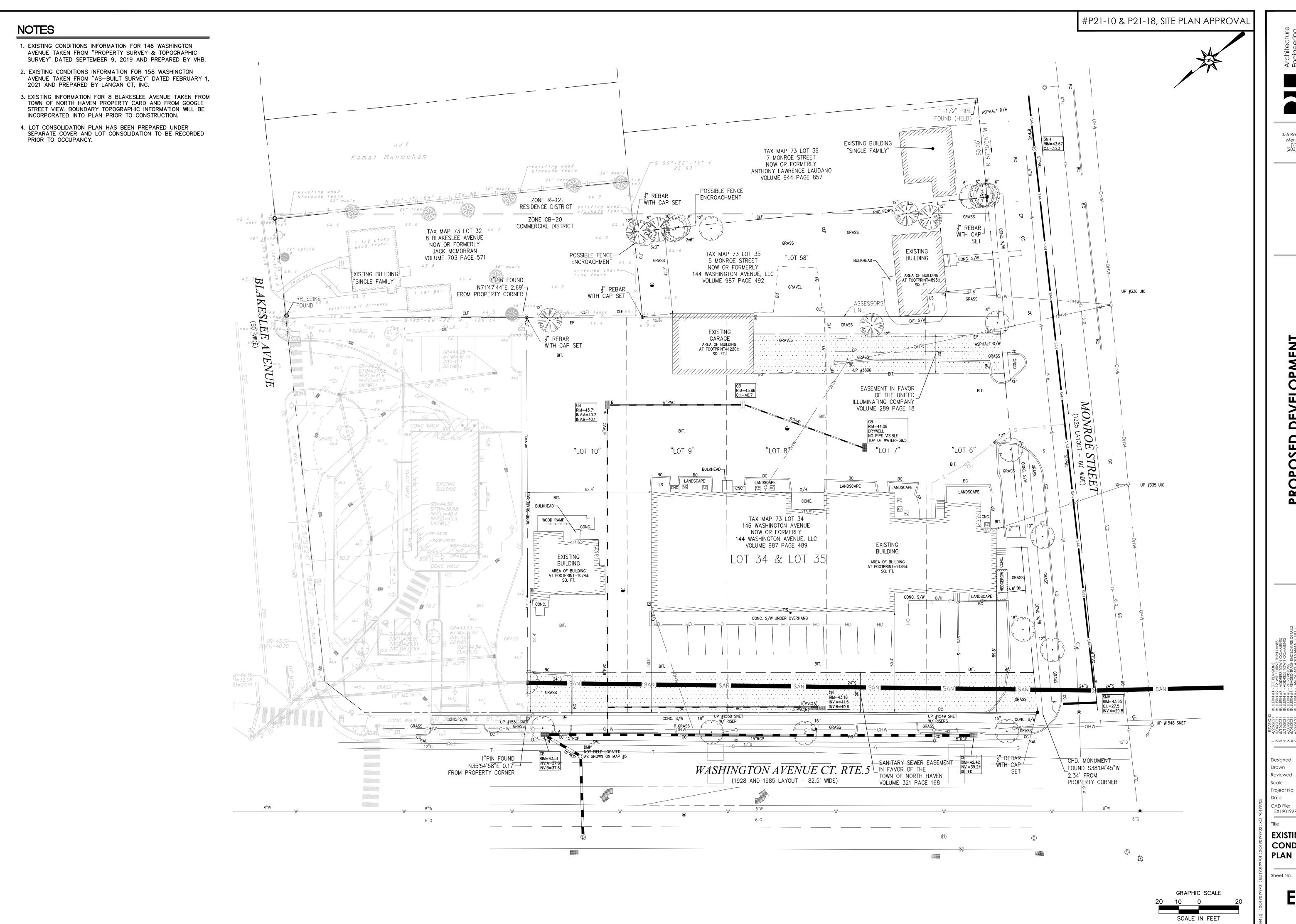
DEVELOPER/OWNER:

34 LLOYD STREET

SITE PLAN APPROVAL NOTE:

TOWN OF NORTH HAVEN PLANNING AND ZONING BOARD SITE PLAN APPROVAL IS CONTINGENT ON THE APPROVAL OF THE ENCROACHMENT PERMIT FOR THE PROPOSED DRIVEWAY AND STORM DRAIN TIE-IN BY THE STATE OF CONNECTICUT D.O.T.

2022 BL COMPANIES, INC. THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF BL COMPANIES.



> SED DEVELOPMENT SHINGTON AVE (ROUTE 5) HAVEN, CONNECTICUT OPO 14 WASI 10RTH

- 28459788 - 2845978 - 284

R.M.D. R.M.D. S.M.K. 1"=20' 1901997 07/07/2021 EX190199701

EXISTING **CONDITIONS**

EX-1

- 3. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED
- 4. THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY COMPANY FEES SHALL BE PAID FOR BY THE CONTRACTOR.
- 5. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORD DRAWINGS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES AND STORMWATER SYSTEM) TO THE OWNER AT THE END OF CONSTRUCTION. THE AS-BUILT PLANS SHALL BE SUBMITTED TO ALAN FREDRICKSEN, THE TOWN OF NORTH HAVEN LAND USE ADMINISTRATOR PRIOR TO BOND RELEASE.
- THE ARCHITECT OR ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ARCHITECT AND ENGINEER HAVE NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR
- 7. THE CONTRACTOR SHALL COMPLY WITH CFR 29 PART 1926 FOR EXCAVATION, TRENCHING, AND TRENCH PROTECTION REQUIREMENTS.

to supervise safety and does not voluntarily assume any such duty or responsibility

- 8. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL OR COUNTY OR STATE RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT CT CALL BEFORE YOU DIG (CBYD) 72 HOURS BEFORE COMMENCEMENT OF WORK AT CT (800) 242-1776 OR AT 811 AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS. THE CONTRACTOR SHALL FMPLOY THE USE OF A UTILITY LOCATING COMPANY TO PROVIDE SUBSURFACE UTILITY ENGINEERING CONSISTING OF DESIGNATING UTILITIES AND STORM PIPING ON PRIVATE PROPERTY WITHIN THE CONTRACT LIMIT AND CONSISTING OF DESIGNATING AND LOCATING WHERE PROPOSED UTILITIES AND STORM PIPING CROSS EXISTING UTILITIES AND STORM PIPING WITHIN THE CONTRACT LIMITS.
- 9. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN OVER SCALED DIMENSIONS.
- 10. IF PLANS AND OR SPECIFICATIONS ARE IN CONFLICT, THE MOST COSTLY SHALL APPLY.
- 11. ALL CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN COMPLETE DRAWING PLAN SETS FOR BIDDING AND CONSTRUCTION, PLAN SETS OR PLAN SET ELECTRONIC POSTINGS SHALL NOT BE DISASSEMBLED INTO PARTIAL PLAN SETS FOR USE BY CONTRACTORS AND SUBCONTRACTORS OF INDIVIDUAL TRADES. IT SHALL BE THE CONTRACTOR'S AND SUBCONTRACTOR'S RESPONSIBILITY TO OBTAIN COMPLETE PLAN SETS OR COMPLETE PLAN SET ELECTRONIC POSTINGS FOR USE IN BIDDING AND CONSTRUCTION.
- 12. ALL NOTES AND DIMENSIONS DESIGNATED "TYPICAL" APPLY TO ALL LIKE OR SIMILAR CONDITIONS THROUGHOUT THE PROJECT.
- 13. CONTRACTOR(S) TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK AND BE RESPONSIBLE FOR COORDINATION OF SAME. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.
- 14. BL COMPANIES WILL PREPARE FINAL CONSTRUCTION DOCUMENTS SUITABLE FOR BIDDING AND CONSTRUCTION. PROGRESS SETS OF THESE DOCUMENTS ARE NOT SUITABLE FOR THOSE PURPOSES. IF CLIENT ELECTS TO SOLICIT BIDS OR ENTER INTO CONSTRUCTION CONTRACTS UTILIZING CONSTRUCTION DOCUMENTS THAT ARE NOT YET FINAL, CONSULTANT SHALL NOT BE RESPONSIBLE FOR ANY COSTS OR DELAY ARISING AS A RESULT.
- 15. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
- 16. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT AND OBTAIN FROM MUNICIPAL SOURCES ALL CONSTRUCTION PERMITS, INCLUDING ANY STATE DOT PERMITS, SEWER AND WATER CONNECTION PERMITS. AND ROADWAY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK EXCEPT CTDOT ENCROACHMENT PERMIT BOND.
- 17. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS AND MATERIALS PER PLANS AND SPECIFICATIONS TO THE OWNER AND CIVIL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
- 18. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION NOTES PROVIDED ON THE SEDIMENT AND EROSION CONTROL PLAN.
- 19. THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF BUILDING, DRIVE-THRU AREA, AND THE RAISED CONCRETE SIDEWALKS, LANDINGS, RAMPS, AND STAIRS.
- 20. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE CIVIL ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
- 21. ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURBS OR EDGE OF PAVING AS APPLICABLE UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE.
- 22. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES, TEMPORARY WALKWAYS, TRAFFIC CONTROLLERS AND UNIFORMED TRAFFIC OFFICERS AS REQUIRED OR AS ORDERED BY THE ENGINEER OR AS REQUIRED BY THE LOCAL GOVERNING AUTHORITIES OR AS REQUIRED BY PERMIT STIPULATIONS OR AS REQUIRED BY THE OWNER. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC LANES AND PEDESTRIAN WALKWAYS FOR USE AT ALL TIMES UNLESS WRITTEN APPROVAL FROM THE APPROPRIATE GOVERNING AGENCY IS GRANTED.
- 23. TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO THE STATE DOT STANDARD DETAIL SHEETS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SIGNS SHALL BE INSTALLED PLUMB WITH THE EDGE OF THE SIGN 2' OFF THE FACE OF THE CURB, AND WITH 7' VERTICAL CLEARANCE UNLESS OTHERWISE DETAILED OR NOTED
- 24. REFER TO DETAIL SHEETS FOR PAVEMENT, CURBING, AND SIDEWALK INFORMATION.
- 25. THE CONTRACT LIMIT IS THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE CONTRACT DRAWINGS.
- 26. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PAVEMENT MARKING PAINT MIXTURE PRIOR TO STRIPING.
- 27. PAVEMENT MARKING KEY:
- 4" SYDL 4' SOLID YELLOW DOUBLE LINE
- 4" SWL 4" SOLID WHITE LINE 12" SWSB 12" SOLID WHITE STOP BAR
- 4" BWL 4" BROKEN WHITE LINE 10' STRIPE 30' SPACE
- SYMBOLS, AND STRIPING FOR HANDICAPPED SPACES SHALL BE PAINTED WHITE AND BLUE. OTHER MARKINGS SHALL BE PAINTED WHITE OR AS NOTED.
- 29. ALL PARKING SPACES AND HATCHED AREAS SHALL HAVE TWO COATS OF PAVEMENT MARKINGS APPLIED TO STRIPING.
- 30. PAVEMENT MARKINGS SHALL BE HOT APPLIED TYPE IN ACCORDANCE WITH STATE DOT SPECIFICATIONS, UNLESS WHERE EPOXY RESIN PAVEMENT MARKINGS ARE INDICATED.
- 31. THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS. SWALE. PAVEMENT MARKINGS. OR SIGNAGE DISTURBED DURING DEMOLITION AND/OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE CIVIL ENGINEER, AND TO THE SATISFACTION OF THE OWNER AND MUNICIPALITY.
- 32. EXISTING BOUNDARY AND TOPOGRAPHY IS BASED ON DRAWING TITLED "146 WASHINGTON AVE. & 5 MONROE ST., NORTH HAVEN, CONNECTICUT
- 33. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, CIVIL ENGINEER, AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING PROCESS.
- 34. CTDOT ENCROACHMENT PERMIT SHALL BE OBTAINED BY CONTRACTOR WHO SHALL PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE traffic protection necessary for the work. The owner shall post ctdot encroachment permit bond.
- 35. AN EROSION CONTROL BOND IS REQUIRED TO BE POSTED BY THE CONTRACTOR BEFORE THE START OF ANY ACTIVITY ON OR OFF SITE. THE
- AMOUNT OF THE EROSION CONTROL BOND WILL BE DETERMINED BY THE AUTHORITY HAVING JURISDICTION.

- 40. THE EXISTING BUILDING IS TO REMAIN OPEN FOR BUSINESS UNTIL THE CONSTRUCTION OF THE PROPOSED BUILDING IS COMPLETE, AT WHICH TIME THE EXISTING BUILDING WILL BE DEMOLISHED AND PARKING IMPROVEMENTS IN THIS AREA COMPLETED.
- 42. FIRE LANES SHALL BE ESTABLISHED AND PROPERLY DESIGNATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FIRE DISTRICT FIRE MARSHAL.

- 46. ALL BUILDINGS, INCLUDING FOUNDATION WALLS AND FOOTINGS AND BASEMENT SLABS INDICATED ON THE DEMOLITION PLAN ARE TO BE REMOVED
- 47. SEDIMENT AND EROSION CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN AND/OR DEMOLITION PLAN SHALL BE INSTALLED BY THE DEMOLITION CONTRACTOR PRIOR TO START OF DEMOLITION AND CLEARING AND GRUBBING OPERATIONS.
- APPROVED OFF SITE LANDFILL, BY AN APPROVED HAULER. HAULER SHALL COMPLY WITH ALL REGULATORY REQUIREMENTS.
- THE CONTRACTOR SHALL POST BONDS AND PAY PERMIT FEES AS REQUIRED. BUILDING DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITS AND DISPOSAL OF ALL BUILDING DEMOLITION DEBRIS IN AN APPROVED OFF-SITE LANDFILL.

- 4" SYL 4" SOLID YELLOW LINE
- 28. PARKING SPACES SHALL BE STRIPED WITH 4" SWL; HATCHED AREA SHALL BE STRIPED WITH 4" SWL AT A 45° ANGLE, 2' ON CENTER. HATCHING,

- SCALE 1" = 40', DATED 9/9/2019, BY VHB.

- 36. A DEMOLITION PERMIT IS REQUIRED FOR EXISTING BUILDINGS.
- 37. THE SITE IS CURRENTLY SERVICED BY PUBLIC WATER.
- 38. NO PART OF THE PROJECT PARCEL IS LOCATED WITHIN ANY FEMA DESIGNATED FLOOD HAZARD AREAS.
- 39. THERE ARE NO WETLANDS LOCATED ON THE SITE AS INDICATED BY GIS MAPPING.
- 41. 12" SWSB (STOP BAR) AND 4" SYDL AND SWL PAVEMENT MARKINGS LOCATED IN DRIVEWAYS AND IN STATE HIGHWAY SHALL BE EPOXY RESIN TYPE ACCORDING TO CONNDOT SPECIFICATIONS.
- 43. THE CONTRACTOR SHALL REMOVE CONFLICTING PAVEMENT MARKINGS IN THE ROADWAY BY METHOD APPROVED BY THE AUTHORITY HAVING JURISDICTION OR DOT AS APPLICABLE FOR THE LOCATION OF THE WORK.
- 44. ALL ADA DESIGNATED PARKING STALLS, ACCESS AISLES AND PEDESTRIAN WALKWAYS SHALL CONFORM TO THE CURRENT VERSION OF THE AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN AND ANSI STANDARDS AND AS MAY BE SUPERCEDED BY THE STATE BUILDING CODE.
- 45. CONSTRUCTION OCCURRING ON THIS SITE SHALL COMPLY WITH NFPA 241 STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS, AND CHAPTER 16 OF NFPA 1 UNIFORM FIRE CODE.
- FROM THE SITE. CONTRACTOR SHALL SECURE ANY PERMITS, PAY ALL FEES AND PERFORM CLEARING AND GRUBBING AND DEBRIS REMOVAL PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.
- 48. REMOVE AND DISPOSE OF ANY SIDEWALKS. FENCES. STAIRS. WALLS. DEBRIS AND RUBBISH REQUIRING REMOVAL FROM THE WORK AREA IN AN
- 49. THE CONTRACTOR SHALL SECURE ALL PERMITS FOR HIS DEMOLITION AND DISPOSAL OF HIS DEMOLITION MATERIAL TO BE REMOVED FROM THE SITE.
- 50. ASBESTOS OR HAZARDOUS MATERIAL, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIAL ABATEMENT CONTRACTOR.

- 51. THE CONTRACTOR SHALL PREPARE ALL MANIFEST DOCUMENTS AS REQUIRED PRIOR TO COMMENCEMENT OF DEMOLITION.
- 52. THE CONTRACTOR SHALL CUT AND PLUG, OR ARRANGE FOR THE APPROPRIATE UTILITY PROVIDER TO CUT AND PLUG ALL SERVICE PIPING AT THE STREET LINE OR AT THE MAIN, AS REQUIRED BY THE UTILITY PROVIDER, OR AS OTHERWISE NOTED OR SHOWN ON THE CONTRACT DRAWINGS. ALL SERVICES MAY NOT BE SHOWN ON THIS PLAN. THE CONTRACTOR SHALL INVESTIGATE THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT OF SERVICE PIPING TO BE REMOVED, CUT OR PLUGGED. THE CONTRACTOR SHALL PAY ALL UTILITY PROVIDER FEES FOR ABANDONMENTS AND REMOVALS.
- 53. THE CONTRACTOR SHALL PROTECT ALL IRON PINS, MONUMENTS AND PROPERTY CORNERS DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. ANY CONTRACTOR DISTURBED PINS, MONUMENTS, AND OR PROPERTY CORNERS, ETC. SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE EXPENSE
- 54. THE DEMOLITION CONTRACTOR SHALL STABILIZE THE SITE AND KEEP EROSION CONTROL MEASURES IN PLACE UNTIL THE COMPLETION OF HIS WORK OR UNTIL THE COMMENCEMENT OF WORK BY THE SITE CONTRACTOR, WHICHEVER OCCURS FIRST, AS REQUIRED OR DEEMED NECESSARY BY THE ENGINEER OR OWNER'S REPRESENTATIVE. THE SITE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE MAINTENANCE OF EXISTING EROSION AND SEDIMENTATION CONTROLS AND FOR INSTALLATION OF ANY NEW SEDIMENT AND EROSION CONTROLS AS PER THE SEDIMENT AND EROSION CONTROL
- 55. THE CONTRACTOR SHALL PUMP OUT BUILDING FUEL AND WASTE OIL TANKS (IF ANY ARE ENCOUNTERED) AND REMOVE FUEL TO AN APPROVED DISPOSAL AREA BY A LICENSED WASTE OIL HANDLING CONTRACTOR IN STRICT ACCORDANCE WITH STATE REQUIREMENTS.
- 56. IF IMPACTED OR CONTAMINATED SOIL IS ENCOUNTERED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUSPEND EXCAVATION WORK OF IMPACTED SOIL AND NOTIFY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT PRIOR TO PROCEEDING WITH FURTHER WORK IN THE IMPACTED SOIL LOCATION UNTIL FURTHER INSTRUCTED BY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT.
- 57. EXISTING WATER SERVICES SHALL BE DISCONNECTED AND CAPPED AT MAIN IN ACCORDANCE WITH THE REQUIREMENTS OF THE WATER UTILITY PROVIDER. REMOVE EXISTING ONSITE WATER PIPING TO BE ABANDONED TO RIGHT OF WAY LINE UNLESS OTHERWISE SHOWN ON DEMOLITION PLANS OR AS REQUIRED BY THE WATER UTILITY PROVIDER TO BE REMOVED TO MAIN.
- 58. EXISTING SANITARY LATERAL SHALL BE PLUGGED WITH NON-SHRINK GROUT AT CURB LINE OR AT MAIN CONNECTION IN ACCORDANCE WITH THE SANITARY UTILITY PROVIDER REQUIREMENTS. REMOVE EXISTING LATERAL PIPING FROM SITE UNLESS OTHERWISE SHOWN ON DEMOLITION PLANS OR AS
- REQUIREMENTS. WORK TO BE COORDINATED BY AND PAID FOR BY THE CONTRACTOR, REMOVE EXISTING SERVICE PIPING ON SITE, ANY PROPANE TANKS SHALL BE PURGED OF RESIDUAL GAS BY PROPANE SUPPLIER. CONTRACTOR SHALL COORDINATE THIS WORK AND PAY NECESSARY FEES. 60. THE CONTRACTOR SHALL PROVIDE DISCONNECT NOTIFICATION TO THE MUNICIPALITY ENGINEERING DEPARTMENT, TELECOMMUNICATIONS UTILITY

PROVIDER, GAS UTILITY PROVIDER, ELECTRIC UTILITY PROVIDER, SANITARY UTILITY PROVIDER, AND WATER UTILITY PROVIDER AT LEAST THREE WEEKS

59. DOMESTIC GAS SERVICES SHALL BE CAPPED AND SERVICE LINES PURGED OF RESIDUAL GAS IN ACCORDANCE WITH THE GAS UTILITY PROVIDER

- 61. THE CONTRACTOR IS RESPONSIBLE FOR SECURING A DEMOLITION PERMIT FROM THE MUNICIPAL BUILDING DEPARTMENT AND MUST FURNISH THE
- 62. BACK FILL DEPRESSIONS, FOUNDATION HOLES AND REMOVED DRIVEWAY AREAS IN LOCATIONS NOT SUBJECT TO FURTHER EXCAVATION WITH SOIL MATERIAL APPROVED BY THE OWNER'S GEOTECHNICAL ENGINEER AND COMPACT, FERTILIZE, SEED AND MULCH DISTURBED AREAS NOT SUBJECT TO FURTHER SITE CONSTRUCTION. DEMOLISHED BUILDING FOUNDATION AREA AND BASEMENT IF PRESENT TO BE BACKFILLED WITH GRAVEL FILL OR MATERIAL SPECIFIED IN THE PROJECT GEOTECHNICAL REPORT IN LIFT THICKNESS SPECIFIED IN THE GEOTECHNICAL REPORT. COMPACT TO 95% MAX DRY DENSITY PER ASTM D1557 AT MOISTURE CONTENT SPECIFIED IN GEOTECHNICAL REPORT AND EARTHWORK SPECIFICATION. EMPLOY WATERING EQUIPMENT FOR DUST CONTROL.
- 63. THE CONTRACTOR SHALL REPAIR PAVEMENTS BY INSTALLING TEMPORARY AND PERMANENT PAVEMENTS IN PUBLIC RIGHTS OF WAYS AS REQUIRED BY LOCAL GOVERNING AUTHORITIES AND THE STATE AND PER PERMIT REQUIREMENTS DUE TO DEMOLITION AND PIPE REMOVAL ACTIVITIES.
- 64. THE CONTRACTOR SHALL CUT AND REMOVE AT LUMINARE AND SIGN LOCATIONS ANY PROTRUDING CONDUITS TO 24" BELOW GRADE. THE CONTRACTOR SHALL REMOVE ALL CABLE AND CONDUCTORS FROM REMAINING LIGHTING AND SIGNING CONDUITS TO BE ABANDONED. ANY REMAINING LIGHTING TO REMAIN IN PLACE SHALL BE RECIRCUITED OR REWIRED AS NECESSARY TO REMAIN IN OPERATION.
- 65. NO WORK ON THIS SITE SHALL BE INITIATED BY THE CONTRACTOR UNTIL A PRE-CONSTRUCTION MEETING WITH OWNER AND THE CIVIL ENGINEER IS PERFORMED. THE CONTRACTOR SHOULD BE AWARE OF ANY SITE INFORMATION AVAILABLE SUCH AS GEOTECHNICAL AND ENVIRONMENTAL REPORTS. THE CONTRACTOR SHALL HAVE CBYD MARK OUTS OF EXISTING UTILITIES COMPLETED PRIOR TO MEETING.
- 66. THE CONTRACTOR SHALL ARRANGE FOR AND INSTALL TEMPORARY OR PERMANENT UTILITY CONNECTIONS WHERE INDICATED ON PLAN OR AS REQUIRED. MAINTAIN UTILITY SERVICES TO BUILDINGS OR TO SERVICES TO REMAIN. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDERS FOR INSTALLATION AND PAY UTILITY PROVIDER FEES.
- 67. THE CONTRACTOR SHALL NOT COMMENCE DEMOLITION OR UTILITY DISCONNECTIONS UNTIL AUTHORIZED TO DO SO BY THE OWNER.
- 68. THE CONTRACTOR OR DEMOLITION CONTRACTOR SHALL INSTALL TEMPORARY SHEETING OR SHORING AS NECESSARY TO PROTECT EXISTING AND NEW BUILDINGS, STRUCTURES AND UTILITIES DURING CONSTRUCTION AND DEMOLITION. SHEETING OR SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, LICENSED IN THIS STATE AND EVIDENCE OF SUCH SUBMITTED TO THE OWNER PRIOR TO INSTALLATION.
- 69. NO SALVAGE SHALL BE PERMITTED UNLESS PAID TO THE OWNER AS A CREDIT.

REQUIRED APPLICATION MATERIAL AND PAY ALL FEES.

- 70. ANY EXISTING POTABLE WELL AND ANY EXISTING SEPTIC TANKS/ABSORPTION AREAS SHALL BE ABANDONED AND REMOVED PER THE CTDPH AND HEALTH CODE REQUIREMENTS.
- 71. THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO SEDIMENT AND EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND EROSION CONTROL NOTES.
- 72. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR USE IN FINAL LANDSCAPING.
- 73. FILL WITHIN FORMER BUILDING FOUNDATION SHALL BE CHECKED BY TEST PIT AND PROOF-ROLLING AND SHALL BE OBSERVED BY THE OWNER'S GEOTECHNICAL ENGINEER. SUBGRADE SHALL BE FORMED WITH REMOVAL AND REPLACEMENT OF FILL AND REMOVAL AND REPLACEMENT OF UNSUITABLE AND SOFT SUBGRADE MATERIAL AS REQUIRED BY THE GEOTECHNICAL ENGINEER. SEE GEOTECHNICAL REPORT AND EARTHWORK SPECIFICATIONS FOR FURTHER DESCRIPTION.
- 74. THE CONTRACTOR SHALL COMPACT FILL IN LIFT THICKNESS PER THE GEOTECHNICAL REPORT UNDER ALL PARKING, BUILDING, DRIVE, AND STRUCTURE AREAS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST), OR AS REQUIRED BY THE GEOTECHNICAL
- 75. UNDERDRAINS SHALL BE ADDED, IF DETERMINED NECESSARY IN THE FIELD BY THE OWNER/GEOTECHNICAL ENGINEER, AFTER SUBGRADE IS ROUGH
- 76. VERTICAL DATUM IS NAVD 88

PROVIDER REQUIREMENTS

- 77. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE TOWN OF NORTH HAVEN AGENT PRIOR TO THE START OF WORK ON THE SITE.
- 78. PROPER CONSTRUCTION PROCEDURES SHALL BE FOLLOWED ON ALL IMPROVEMENTS WITHIN THIS PARCEL SO AS TO PREVENT THE SILTING OF ANY WATERCOURSE OR WETLANDS IN ACCORDANCE WITH THE REGULATIONS OF THE CTDEEP AND THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION, IN ADDITION, THE CONTRACTOR SHALL STRICTLY ADHERE TO THE SEDIMENT AND EROSION CONTROL PLAN CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO POST ALL BONDS AS REQUIRED BY THE LOCAL MUNICIPALITIES WHICH WOULD GUARANTEE THE PROPER IMPLEMENTATION OF THE PLAN.
- 79. ALL SITE WORK, MATERIALS OF CONSTRUCTION, AND CONSTRUCTION METHODS FOR EARTHWORK AND STORM DRAINAGE WORK SHALL CONFORM TO THE SPECIFICATIONS AND DETAILS AND APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS MANUAL, OTHERWISE THIS WORK SHALL CONFORM TO THE STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND PROJECT GEOTECHNICAL REPORT IF THERE IS NO PROJECT SPECIFICATIONS MANUAL, ALL FILL MATERIAL UNDER STRUCTURES AND PAVED AREAS SHALL BE PER THE ABOVE STATED APPLICABLE SPECIFICATIONS. AND/OR PROJECT GEOTECHNICAL REPORT, AND SHALL BE PLACED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER. MATERIAL SHALL BE COMPACTED IN LIFT THICKNESSES PER THE PROJECT GEOTECHNICAL REPORT TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 AT MOISTURE CONTENT INDICATED IN PROJECT GEOTECHNICAL REPORT.
- 80. ALL DISTURBANCE INCURRED TO MUNICIPAL, COUNTY, AND STATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS
- CONDITION OR BETTER, TO THE SATISFACTION OF THE MUNICIPALITY, COUNTY, AND STATE AS APPLICABLE FOR THE LOCATION OF THE WORK. 81. ALL CONSTRUCTION WITHIN A DOT RIGHT OF WAY SHALL COMPLY WITH ALL DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
- 82. THE UTILITY PLAN DETAILS SITE INSTALLED PIPES UP TO 5' FROM THE BUILDING FACE. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING CONNECTIONS. SITE CONTRACTOR SHALL SUPPLY AND INSTALL PIPE ADAPTERS AS NECESSARY AT BUILDING CONNECTION POINT OR AT EXISTING
- 83. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE PROPOSED SANITARY SEWERS AND WHERE PROPOSED STORM PIPING WILL CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED SANITARY SEWERS, STORM PIPING AND UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
- 84. UTILITY CONNECTION DESIGN AS REFLECTED ON THE PLAN MAY CHANGE SUBJECT TO UTILITY PROVIDER AND GOVERNING AUTHORITY STAFF REVIEW.
- 85. THE CONTRACTOR SHALL ENSURE THAT ALL UTILITY PROVIDERS AND GOVERNING AUTHORITY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET. THE CONTRACTOR SHALL PERFORM PROPER COORDINATION WITH THE RESPECTIVE UTILITY PROVIDER.
- 86. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY PROVIDERS FOR SERVICE INSTALLATIONS AND CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY PROVIDERS AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATIONS MANUAL AND/OR GENERAL CONDITIONS OF THE CONTRACT.
- 87. ALL EXISTING PAVEMENT WHERE UTILITY PIPING IS TO BE INSTALLED SHALL BE SAW CUT. AFTER UTILITY INSTALLATION IS COMPLETED, THE CONTRACTOR SHALL INSTALL TEMPORARY AND/OR PERMANENT PAVEMENT REPAIR AS DETAILED ON THE DRAWINGS OR AS REQUIRED BY THE OWNER
- 88. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- 89. SANITARY LATERAL SHALL MAINTAIN (10' MIN. HORIZONTAL 1.5' VERTICAL MIN.) SEPARATION DISTANCE FROM WATER LINES, OR ADDITIONAL PROTECTION MEASURES WILL BE REQUIRED WHERE PERMITTED, WHICH SHALL INCLUDE CONCRETE ENCASEMENT OF PIPING UNLESS OTHERWISE DIRECTED BY THE UTILITY PROVIDERS AND CIVIL ENGINEER.
- 90. RELOCATION OF UTILITY PROVIDER FACILITIES SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY PROVIDER.
- 91. THE CONTRACTOR SHALL COMPACT THE PIPE BACKFILL IN 8" LIFTS ACCORDING TO THE PIPE BEDDING DETAILS. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED PER THE TRENCH DETAILS AND IN AREAS OF ROCK EXCAVATION. 92. CONTRACTOR TO PROVIDE STEEL SLEEVES AND ANNULAR SPACE SAND FILL FOR UTILITY PIPE AND CONDUIT CONNECTIONS UNDER FOOTINGS.
- MEP, STRUCTURAL, AND ARCHITECTURAL DRAWINGS AND WITH THE OWNER'S CONSTRUCTION MANAGER. 94. ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION FOR APPROVAL PRIOR TO BACKFILLING, IN ACCORDANCE WITH THE APPROPRIATE UTILITY

93. BUILDING UTILITY PENETRATIONS AND LOCATIONS ARE SHOWN FOR THE CONTRACTOR'S INFORMATION AND SHALL BE VERIFIED WITH THE BUILDING

95. A ONE-FOOT MINIMUM VERTICAL CLEARANCE BETWEEN WATER, GAS, ELECTRICAL, AND TELEPHONE LINES AND STORM PIPING SHALL BE PROVIDED. A SIX-INCH MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN STORM PIPING AND SANITARY SEWER WITH A CONCRETE ENCASEMENT. AN 18-INCH TO 6-INCH VERTICAL CLEARANCE BETWEEN SANITARY SEWER PIPING AND STORM PIPING SHALL REQUIRE CONCRETE ENCASEMENT OF THE PROPOSED 96. GRAVITY SANITARY SEWER PIPING AND PRESSURIZED WATERLINES SHALL BE LOCATED IN SEPARATE TRENCHES AT LEAST 10 FEET APART WHENEVER POSSIBLE. WHEN INSTALLED IN THE SAME TRENCH, THE WATER PIPE SHALL BE LAID ON A TRENCH BENCH AT LEAST 18 INCHES ABOVE THE TOP OF THE SANITARY SEWER PIPE AND AT LEAST 12 INCHES (PREFERABLY 18 INCHES) FROM THE SIDE OF THE SANITARY SEWER PIPE TRENCH.

- 97. SITE CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC., AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING STUB OUTS, INCLUDING ROOF/FOOTING DRAIN CONNECTIONS TO ROOF LEADERS AND TO STORM DRAINAGE SYSTEM.
- 98. MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE RIMS AND VALVE COVERS TO BE
- RAISED OR LOWERED FLUSH WITH FINAL GRADE AS NECESSARY.

99. SITE CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND CABLES FOR SITE LIGHTING WITH THE BUILDING ELECTRICAL CONTRACTOR.

- 100. CONTRACTOR SHALL COORDINATE INSTALLATION FOR ELECTRICAL SERVICES TO PYLON SIGNS AND SITE LIGHTING WITH THE BUILDING ELECTRICAL
- 101. THE CONTRACTOR SHALL ARRANGE AND COORDINATE WITH UTILITY PROVIDERS FOR WORK TO BE PERFORMED BY UTILITY PROVIDERS. THE CONTRACTOR SHALL PAY ALL UTILITY FEES UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATION MANUAL AND GENERAL CONDITIONS, AND
- 102. ELECTRIC, AND TELECOMMUNICATIONS SERVICES SHALL BE INSTALLED UNDERGROUND FROM SERVICE POLE #336 (UIC). THE CONTRACTOR SHALL PROVIDE AND INSTALL AND BACKFILL 2-4" PVC CONDUITS FOR TELECOMMUNICATIONS SERVICE, 2-4" PVC CONDUITS FOR ELECTRIC SERVICE PRIMARY PVC CONDUITS FOR ELECTRICAL SECONDARY PER BUILDING ELECTRICAL PLANS, (SCHEDULE 80 UNDER PAVEMENT, SCHEDULE 40 IN NON PAVEMENT AREAS). SERVICES MAY BE INSTALLED IN A COMMON TRENCH WITH 12" CLEAR SPACE BETWEEN. MINIMUM COVER IS 36" ON ELECTRIC CONDUITS, AND 24" ON TELECOMMUNICATIONS CONDUITS. SERVICES SHALL BE MARKED WITH MAGNETIC LOCATOR TAPE AND SHALL BE BEDDED, INSTALLED, AND BACKFILLED IN ACCORDANCE WITH ELECTRIC UTILITY PROVIDER, AND TELECOMMUNICATIONS COMPANY STANDARDS. GALVANIZED STEEL ELECTRICAL CONDUIT SHALL BE USED AT POLE AND TRANSFORMER LOCATIONS. INSTALL HANDHOLES AS REQUIRED TO FACILITATE INSTALLATION AND AS REQUIRED BY UTILITY PROVIDER. INSTALL TRAFFIC LOAD QUALIFIED HANDHOLES IN VEHICULAR AREAS. INSTALL CONCRETE ENCASEMENT ON PRIMARY ELECTRIC CONDUITS IF REQUIRED BY ELECTRIC UTILITY PROVIDER.
- 103. ALL WATER LINES TO HAVE A MINIMUM COVER OF 4'-6". ALL LINES SHALL BE BEDDED IN 6" SAND AND INITIALLY BACKFILLED WITH 12" SAND.
- 104. ALL WATER MAINS, WATER SERVICES AND SANITARY SEWER LATERALS SHALL CONFORM TO THE APPLICABLE WATER UTILITY PROVIDER SPECIFICATIONS. AND TO THE APPLICABLE SANITARY SEWER PROVIDER SPECIFICATIONS, AS WELL AS TO OTHER APPLICABLE INDUSTRY CODES (AWWA) AND PROJECT SPECIFICATIONS FOR POTABLE WATER SYSTEMS, AND FOR SANITARY SEWER SYSTEMS.
- 105. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNERS, THE CIVIL ENGINEER, UTILITY PROVIDERS AND GOVERNING AUTHORITIES.
- 106. THE CONTRACTOR MAY SUBSTITUTE MASONRY STRUCTURES FOR PRECAST STRUCTURES IF APPROVED BY THE CIVIL ENGINEER AND ALLOWED BY THE GOVERNING AUTHORITY ENGINEER OR OTHER GOVERNING AUTHORITY.
- 107. PIPING SHALL BE LAID FROM DOWNGRADIENT END OF PIPE RUN IN AN UPGRADIENT DIRECTION WITH BELL END FACING UPGRADE IN THE DIRECTION OF
- 108. MANHOLE SECTIONS AND CONSTRUCTION SHALL CONFORM TO ASTM C-478.
- 109. HIGH DENSITY POLYETHYLENE (HDPE) STORM SEWER 12" OR GREATER IN DIAMETER SHALL BE HI-Q SURE-LOK 10.8 PIPE AS MANUFACTURED BY HANCOR INC. OR APPROVED EQUAL. HDPE PIPE SHALL HAVE SMOOTH INTERIOR AND CORRUGATED EXTERIOR AND SHALL MEET THE REQUIREMENTS OF AASHTO M294, TYPE S. PIPE SECTIONS SHALL BE JOINED WITH BELL-AND-SPIGOT JOINT MEETING THE REQUIREMENTS OF AASHTO M294. THE BELL SHALL BE AN INTEGRAL PART OF THE PIPE AND PROVIDE A MINIMUM PULL—APART STRENGTH OF 400 POUNDS. THE JOINT SHALL BE WATERTIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D3212. GASKETS SHALL BE MADE OF POLYISOPRENE MEETING THE REQUIREMENTS OF ASTM F477.
- ALTERNATIVE HDPE PIPE MAY BE USED IF APPROVED BY THE ENGINEER AND OWNER'S CONSTRUCTION MANAGER PRIOR TO ORDERING. 110. HIGH DENSITY POLYETHYLENE (HDPE) STORM SEWER LESS THAN 12" IN DIAMETER SHALL BE HI-Q PIPE AS MANUFACTURED BY HANCOR INC. OR APPROVED EQUAL. HDPE PIPE SHALL HAVE SMOOTH INTERIOR AND CORRUGATED EXTERIOR AND SHALL MEET THE REQUIREMENTS OF AASHTO 252, TYPE S. PIPE SECTIONS SHALL BE JOINED WITH COUPLING BANDS OR EXTERNAL SNAP COUPLERS COVERING AT LEAST 2 FULL CORRUGATIONS ON EACH END OF THE PIPE. SILT-TIGHT (GASKET) CONNECTIONS SHALL INCORPORATE A CLOSED SYNTHETIC EXPANDED RUBBER GASKET. MEETING THE REQUIREMENTS OF AASHTO D1056 GRADE 2A2. GASKETS SHALL BE INSTALLED ON THE CONNECTION BY THE PIPE MANUFACTURER. ALTERNATIVE
- HDPE PIPE MAY BE USED IF APPROVED BY THE ENGINEER AND OWNER'S CONSTRUCTION MANAGER PRIOR TO ORDERING.
- 111. GAS PIPE MATERIAL SHALL BE PER GAS COMPANY REQUIREMENTS. 112. POLYVINYL CHLORIDE PIPE (PVCP) FOR SANITARY PIPING SHALL HAVE BUILT-IN RUBBER GASKET JOINTS. PVCP SHALL CONFORM TO ASTM D3034 (SDR35) WITH COMPRESSION JOINTS AND MOLDED FITTINGS. PVCP SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS, ASTM D2321 AND
- MANUFACTURER'S RECOMMENDED PROCEDURE. 113. PVC WATER MAIN PIPING SHALL CONFORM TO AWWA C900.
- 114. ALL PROPOSED IMPROVEMENTS LOCATED WITHIN THE DOT RIGHT-OF-WAY SHALL CONFORM TO FORM 818. THE STATE OF CONNECTICUT DEPARTMENT
- 115. THERE WILL BE NO OUTDOOR STORAGE ON THE SITE.
- 116. ANY PROPOSED SIGNAGE OR FENCING WILL REQUIRE THE FILING OF APPLICATIONS WITH THE ZONING ENFORCEMENT OFFICER.

CONNECTICUT FORM 818 CONSTRUCTION NOTES

OF TRANSPORTATION STANDARDS AND SPECIFICATIONS FOR ROAD, BRIDGES, FACILITIES, AND INCIDENTAL CONSTRUCTION.

SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES, AND INCIDENTAL CONSTRUCTION" WITH THE LATEST SPECIAL PROVISIONS AND TYPICAL STATE STANDARD DETAILS. IN ANY CASE WHERE THE CONSTRUCTION IS NOT SPECIFICALLY DETAILED IN THE FORM 818, THE WORK WILL BE COMPLETED AS DIRECTED BY THE ENGINEER OR DISTRICT PERMIT SECTION REPRESENTATIVE.

REMOVAL OF PAVEMENT MARKINGS ALONG STATE ROADWAYS SHALL BE COMPLETED BY A NON-DESTRUCTIVE METHOD IN COMPLIANCE WITH THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGES, AND INCIDENTAL CONSTRUCTION FORM 818 SECTION 12.11 NEW PAVEMENT MARKINGS SHALL BE PAINTED WITH EPOXY RESIN PAINT IN COMPLIANCE WITH THE STATE OF CONNECTICUT DEPARTMENT OF

TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES, AND INCIDENTAL CONSTRUCTION FORM 818 SECTION 12.10 AS REVISED. NEW SIGN MATERIAL AND SHEETING SHALL BE MADE OF REFLECTIVE MATERIAL IN COMPLIANCE WITH STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES, AND INCIDENTAL CONSTRUCTION FORM 818 SECTION 12.08 AS REVISED. TYPE 1 REFLECTIVE SHEETING SHALL BE USED FOR SIGNS WITH WHITE BACKGROUND , TYPE 3 REFLECTIVE SHEETING SHALL BE USED FOR SIGNS WITH COLORED BACKGROUND EXCEPT FOR SIGNS WITH RED BACKGROUND THAT SHALL BE TYPE 8 OR 9 REFLECTIVE SHEETING.

ALL SIGNS AND PAVEMENT MARKINGS INSTALLED WITHIN THE STATE RIGHT OF WAY MUST CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST STATE OF CONNECTICUT CATALOG OF SIGNS AS REVISED. ANY DAMAGE TO THE EXISTING CURB, SIDEWALK OR ANY OTHER HIGHWAY APPURTENANCES DURING THE DEVELOPMENT OF THE PERMITTED SITE WILL BE

REPLACED BY THE CONTRACTOR AS DIRECTED BY THE DISTRICT 3 PERMIT SECTION AT NO COST TO THE STATE.

#P21-10 & P21-18, SITE PLAN APPROVA

MUNICIPALITY SHALL MEAN TOWN OF NORTH HAVEN

STATE SHALL MEAN STATE OF CONNECTICUT

WATER UTILITY PROVIDER SHALL MEAN SOUTH CENTRAL REGIONAL WATER AUTHORITY

GAS UTILITY PROVIDER SHALL MEAN <u>SOUTHERN CONNECTICUT GAS COMPANY</u>

TELECOMMUNICATIONS UTILITY PROVIDER SHALL MEAN COMCAST OF CONNECTICUT, INC.

12/17/1984 - DRIVEWAY DISTANCE FROM INTERSECTION - DOCUMENT NUMBER: #84-83 APPEAL OF VELMA DELL'ORO RELATIVE TO 144-154 WASHINGTON AVENUE TO APPEAL SECTIONS 6.6.1 AND 6.6.4 TO ALLOW A DRIVEWAY 71' FROM INTERSECTION WHERE 150' IS REQUIRED. SEEKING A 79' VARIANCE TO

3. 10/22/2012 - FRONT YARD & SIDE YARD - DOCUMENT NUMBER: #12-24 APPLICATION OF SYLVIA DELL'ORO, APPLICANT, PIAZZA, LLC, OWNER, RELATIVE TO 144-154 WASHINGTON AVENUE (MAP 73, LOT 34), PER SECTION 4.4.2, REQUESTING A FRONT YARD VARIANCE OF 6.6' TO PERMIT A FRONT YARD SETBACK OF 43.4' WHERE 50' IS REQUIRED, AND REQUESTING A SIDE YARD VARIANCE OF 11.6' TO

08/08/2018 - DISTANCE FROM PARK/PLAYGROUND - DOCUMENT NUMBER: #18-14 APPLICATION OF CUMBERLAND FARMS, INC., APPLICANT, PRIME BANK, OWNER, RELATIVE TO 146 WASHINGTON AVENUE, (MAP 73, LOT 34) AND 5 MONROE STREET (MAP 73, LOT 35), PER SECTION, 8.11.3, REQUESTING A VARIANCE OF 2.2' TO PERMIT AN AUTOMOBILE SERVICE STATION 497.8' FROM A PARK/PLAYGROUND WHERE

CT DOT NOTES

- 1. THE PERMITTEE SHALL CONTACT JEN CARO, DEPARTMENTS DISTRICT SURVEY UNIT, AT (203)-389-3104 OR
- 2. IF ANY CT DOT BOUNDARY/SURVEY MARKERS GET DISTURBED OR DAMAGED DURING CONSTRUCTION, THE
- 3. LOOP DETECTORS THAT ARE DAMAGED SHALL BE TEMPORARILY REPAIRED IMMEDIATELY AT THE ONSET OF THE DAMAGE BY A STATE CERTIFIED SIGNAL CONTRACTOR, AND PERMANENTLY INSTALLED INTO NEW ASPHALT WHEN THE PAVEMENT HAS BEEN FULLY RESTORED. THE PERMITTEE IS RESPONSIBLE TO HAVE THE SIGNAL CONTRACTOR COMPLETE AND SUBMIT TO CT DOT A "RESPONSIBILITY OF SIGNAL" FORM PROPR TO COMMENCING WORK IN THE STATE RIGHT-OF-WAY. THE PERMITTEE IS RESPONSIBLE FOR OPERATION OF THE

PROPOSED DRAINAGE CONNECTION, THE ACTUAL DRAINAGE CONNECTION CONCURRENCE DOCUMENT BE FINALIZED DURING THE PERMIT ISSUANCE PHASE FOR THE PROPERTY OWNER'S SIGNATURE. THE COMPLETED DOCUMENT SHALL BE RECORDED IN THE TOWN LAND RECORDS.

<u>DEFINITIONS</u>

COUNTY SHALL MEAN NEW HAVEN COUNTY

SANITARY UTILITY PROVIDER SHALL MEAN TOWN OF NORTH HAVEN WATER POLLUTION CONTROL

ELECTRIC UTILITY PROVIDER SHALL MEAN <u>UNITED ILLUMINATING COMPANY</u>

A PHYSICAL BARRIER TO PREVENT PARKING IN THESE SPACES.

SUMMARY OF EXISTING VARIANCES

10/15/1976 — FRONT YARD SETBACK — DOCUMENT NUMBER: N/A (GRANTED PRIOR TO NUMBERING)
APPEAL FOR VARIANCE FOR A CONTINUOUS STRIP OF LANDSCAPED AREA NOT LESS THAN 15 FEET WIDE BETWEEN STREET LINE AND REST OF LOT, SUBJECT TO THE STIPULATION THAT THE APPLICANT AGREES TO ELIMINATE THE THREE (3) MOST NORTHERLY PARKING SPACES IN FRONT OF CUMBERLAND FARMS AND ERECTS

ALLOW 92' FROM EXISTING DRIVEWAY WHERE 100' IS REQUIRED. SEEKING A 8' VARIANCE. CB-40 ZONE.

PERMIT A SIDE YARD SETBACK OF 3.4' WHERE 15' IS REQUIRED. CB-20 ZONING DISTRICT.

500' IS REQUIRED.

Jennifer.Caro@ct.gov PRIOR TO ANY CONSTRUCTION WITHIN THE STATE RIGHT-OF-WAY.

DEPARTMENT WILL FURNISH NEW MONUMENTS, WHICH THE PERMITTEE WILL BE REQUIRED TO INSTALL AT THE DIRECTION OF THE DISTRICT 3 SURVEY UNIT AND ACCORDING TO CT DOT SPECIFICATION.

SIGNAL ONCE THE LOOP DETECTORS HAVE BEEN CUT OUT. 4. A 2" MILL AND PAVE TRENCH AREA EXTENDING 10' TO EITHER SIDE OF EXCAVATION WILL BE REQUIRED. THIS WILL INCLUDE THE RESTORATION OF ALL PAVEMENT MARKINGS IN EPOXY PAINT THAT ARE DISTURBED. LIMITS

WILL BE DETERMINED BY CT DOT PRIOR TO FINAL RESTORATION.

5. THE DEPARTMENT OF TRANSPORTATION WILL SECURE A DRAINAGE CONNECTION CONCURRENCE FOR THE

 \mathbf{O}

-28459V890-108455V8

CAD File GN19019970

022 BL COMPANIES, INC. THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF BL COMPANIES

355 Research Parkway Meriden, CT 06450

(203) 630-1406

(203) 630-2615 Fax

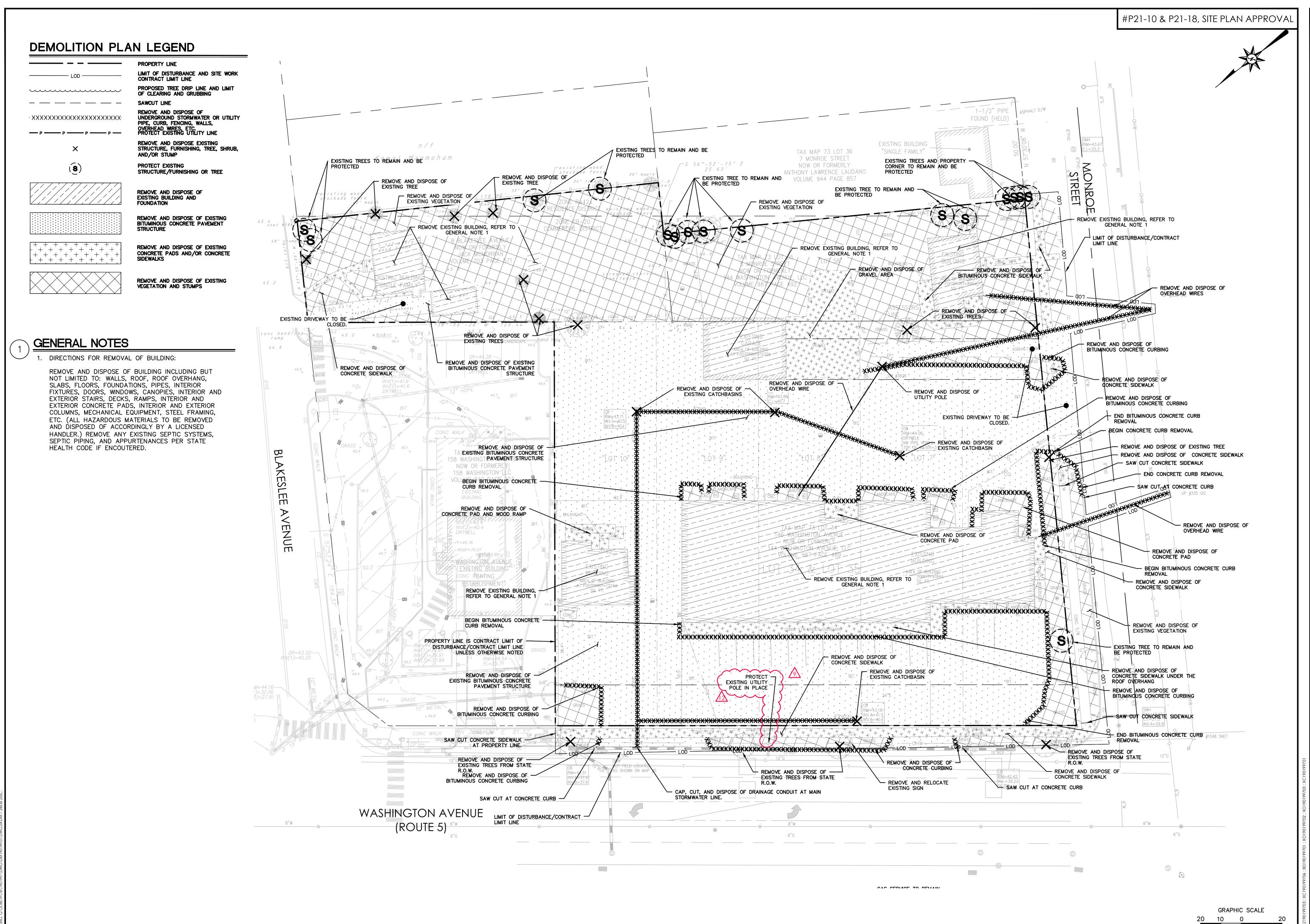
Z $\widehat{\mathbf{Z}}$

ш ш 🗀

VELOI AVE (RO CONNEC

R.M.D. Designed R.M.D. Drawn S.M.K. Reviewed NONE Scale Project No 1901997 07/07/2021

GENERAL **NOTES**



022 BL COMPANIES, INC. THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF BL COMPANIES.

355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

SHINGTON AVE (ROUTE 5) H HAVEN, CONNECTICUT SED

0

-2845978860-2845978 R.M.D. Designed R.M.D. Drawn S.M.K. Reviewed

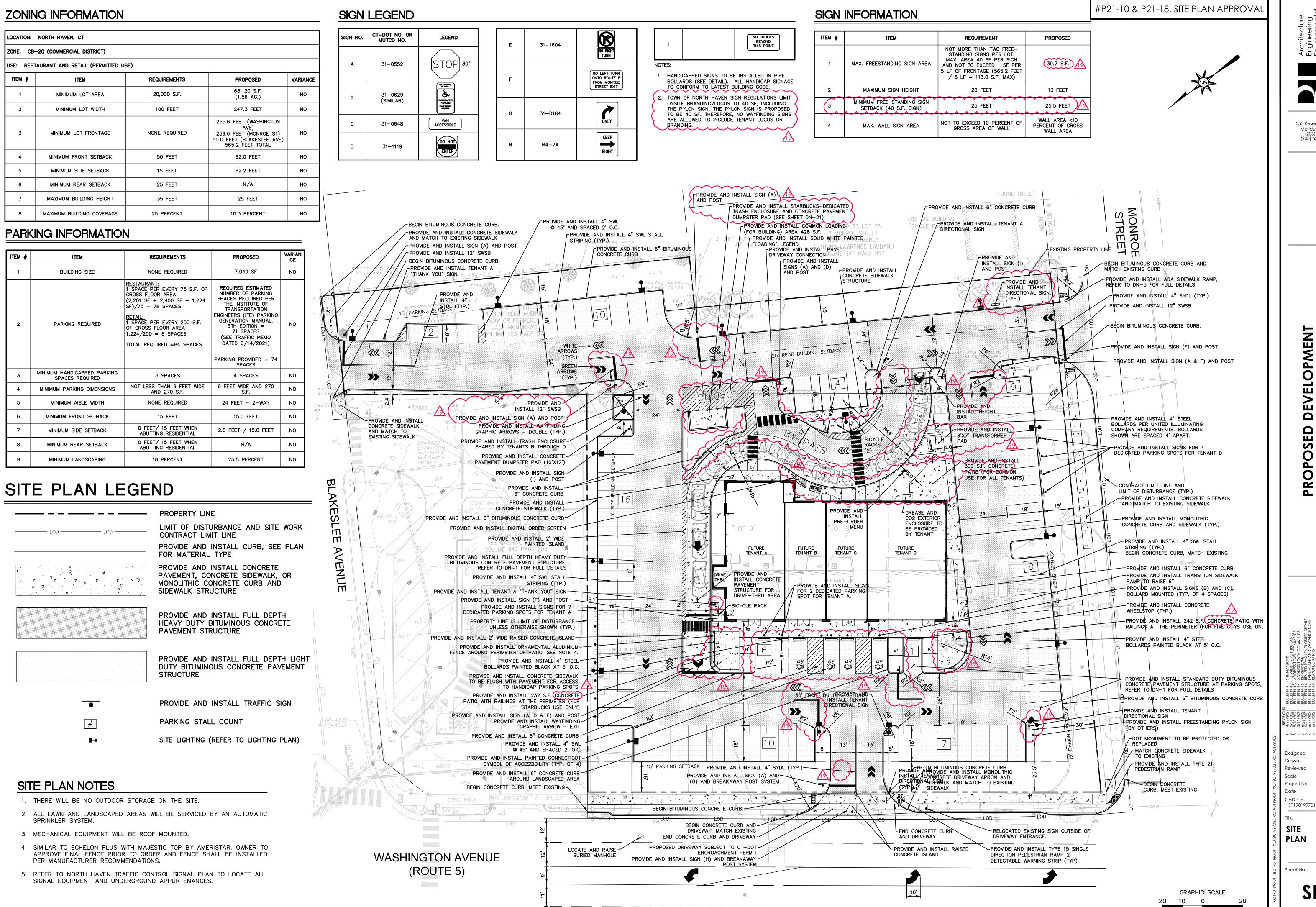
1"=20' Scale 1901997 Project No. 07/07/2021 Date CAD File: DM190199701

DEMOLITION PLAN

Sheet No.

SCALE IN FEET

DM-1



355 Research Parkway Meriden, CT 06450

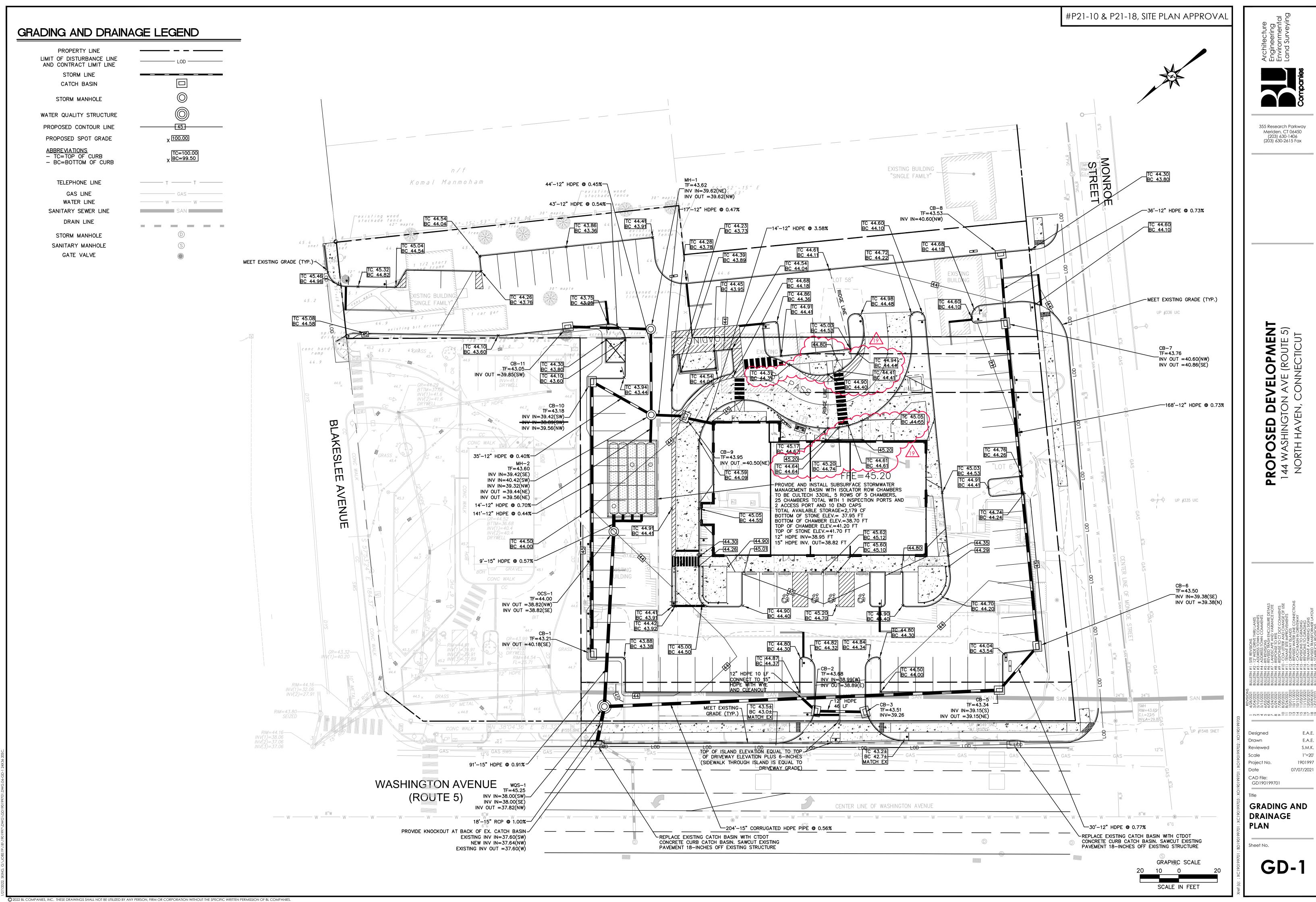
(203) 630-1406 (203) 630-2615 Fax

VELOPMENT A AVE (ROUTE 5) CONNECTICUT **A** 0. X Y

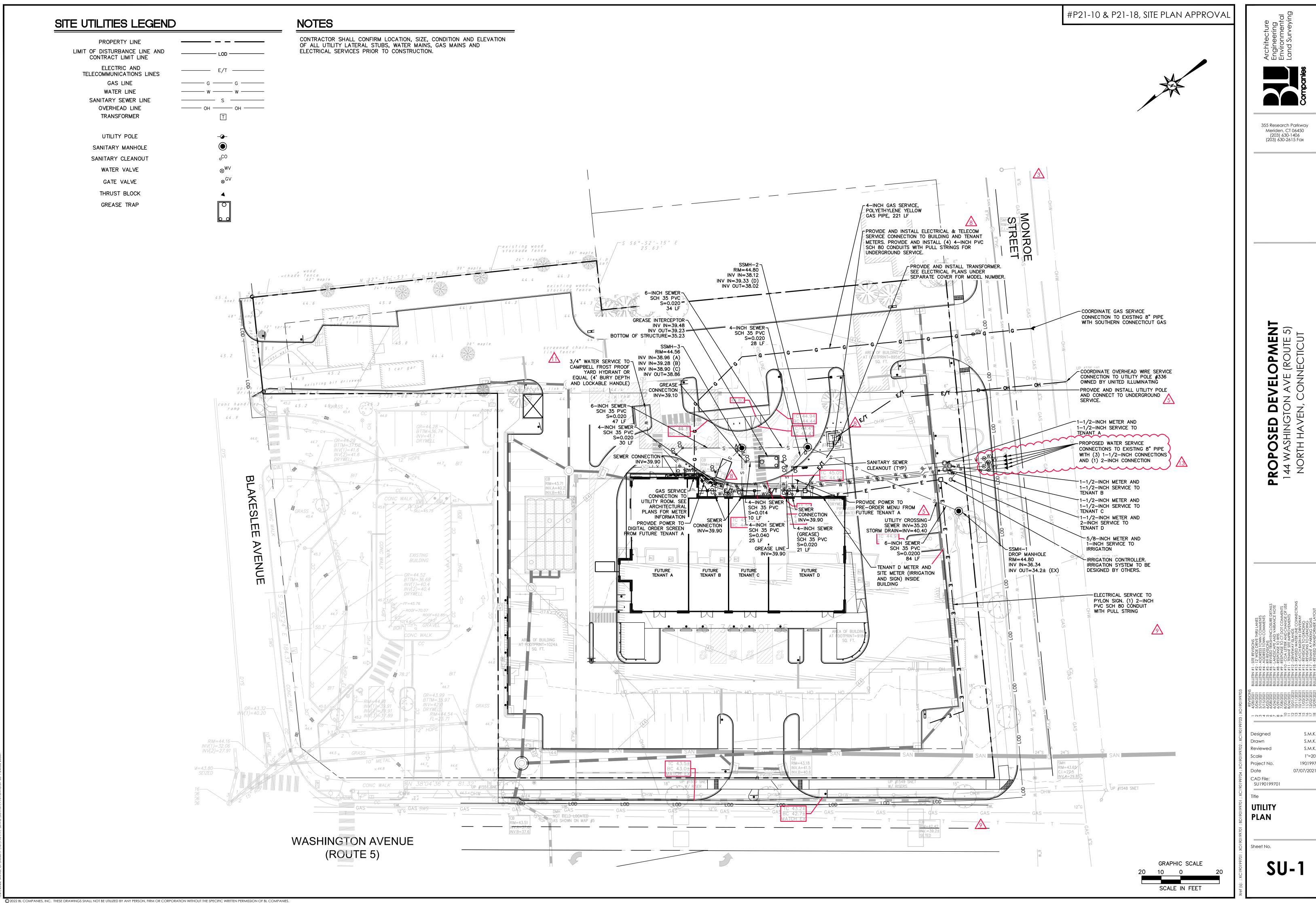
R.M.D. R.M.D. S.M.K. 1"=20' 1901997 07/07/2021

SCALE IN FEET

SP-1

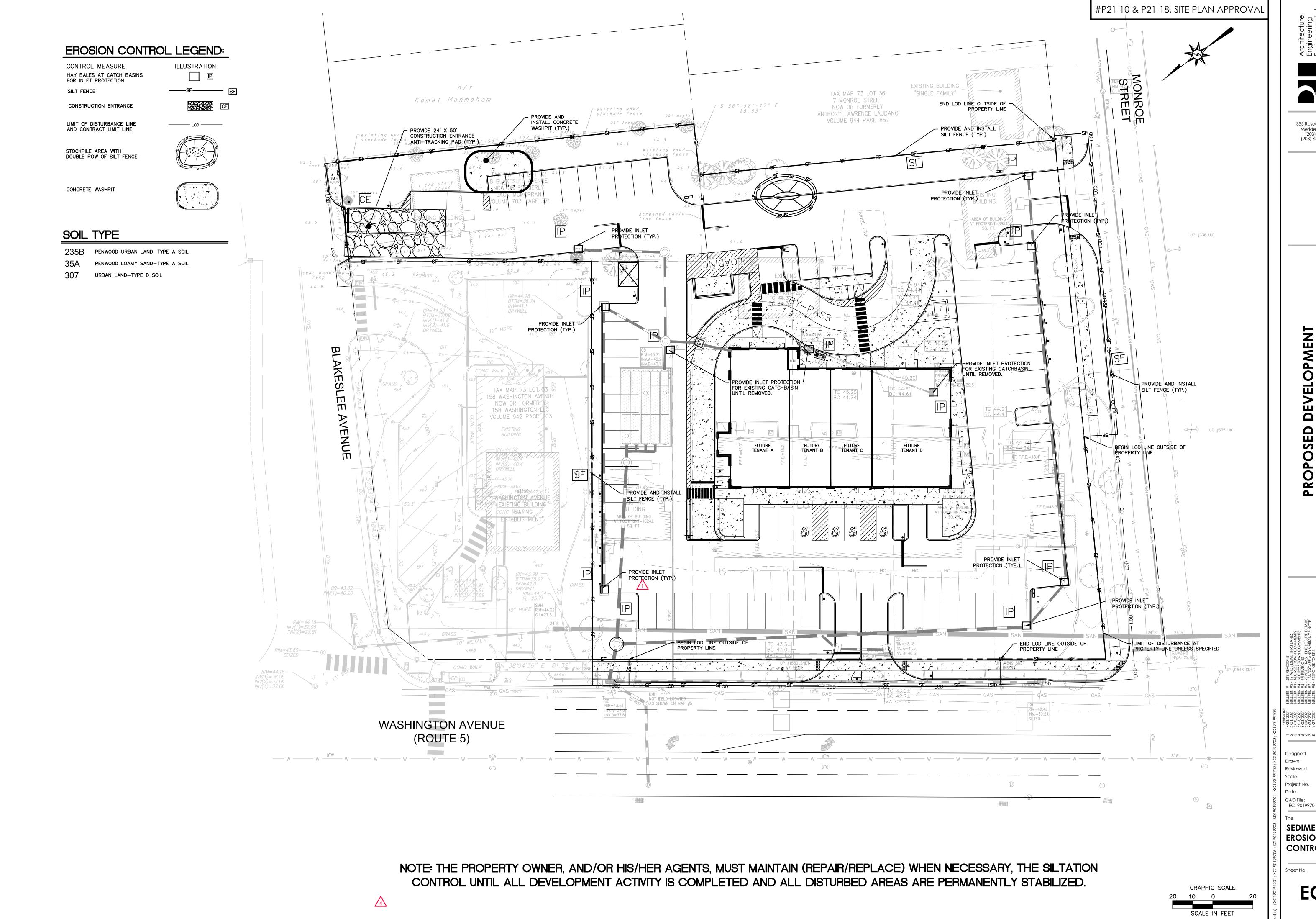


E.A.E. E.A.E. S.M.K.



S.M.K. S.M.K. S.M.K. 1''=20'

1901997 07/07/2021



OPOSED DEVELOPMENT4 WASHINGTON AVE (ROUTE 5)
JORTH HAVEN, CONNECTICUT

CAD File: EC190199701

SEDIMENT AND EROSION CONTROL PLAN

EC-1

THE SEDIMENT AND EROSION CONTROL PLAN WAS DEVELOPED TO PROTECT THE EXISTING ROADWAY AND STORM DRAINAGE SYSTEMS, ADJACENT PROPERTIES, AND ANY ADJACENT WETLAND AREA AND ANY ADJACENT WATER COURSE FROM SEDIMENT LADEN SURFACE RUNOFF AND EROSION. A CONSTRUCTION SEQUENCE IS PROVIDED TO PROVIDE SURFACE RUNOFF EROSION CONTROLS PRIOR TO THE BEGINNING OF PROJECT DEMOLITION AND/OR CONSTRUCTION.

THE ANTICIPATED STARTING DATE FOR CONSTRUCTION IS <u>SPRING 2021</u> WITH COMPLETION ANTICIPATED <u>FALL 2021</u>, APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES AS DESCRIBED HEREIN SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ALL DEMOLITION OR CONSTRUCTION ACTIVITY. SCHEDULE WORK TO MINIMIZE THE LENGTH OF

CONTINGENCY EROSION PLAN THE CONTRACTOR SHALL INSTALL ALL SPECIFIED SEDIMENT AND EROSION CONTROL MEASURES AND WILL BE REQUIRED TO MAINTAIN THEM IN THEIR INTENDED FUNCTIONING CONDITION. THE AGENTS OF THE TOWN OF NORTH HAVEN AND/OR CIVIL ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUPPLEMENTAL MAINTENANCE OR ADDITIONAL MEASURES IF FIELD CONDITIONS ARE ENCOUNTERED BEYOND WHAT WOULD NORMALLY BE ANTICIPATED.

THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:

CONTACT THE TOWN OF NORTH HAVEN AGENT AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CONSTRUCTION OR REGULATED ACTIVITY ON THIS PROJECT. SOIL AND EROSION CONTROLS MUST BE INSPECTED BY THE ZONING ENFORCEMENT OFFICER BEFORE WORK MAY COMMENCE.

 \bigwedge 2. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED THE TOWN OF NORTH HAVEN AGENT PRIOR TO THE START OF WORK ON THE SITE. INSTALL TREE PROTECTION AND PERIMETER SILT FENCE.

- 3. CONSTRUCT STONE CONSTRUCTION ENTRANCE ANTI-TRACKING PADS AT CONSTRUCTION ENTRANCES/EXITS AND INSTALL FILTER FABRIC AROUND GRATES OF CATCH BASINS OR INSTALL SILT SACKS ON CATCH BASIN INLETS ON OFF SITE ROADS. INSTALL SILT FENCE AND OTHER EROSION CONTROL DEVICES INDICATED ON THESE PLANS AT PERIMETER OF PROPOSED SITE DISTURBANCE AND INSTALL ALL EROSION CONTROL MEASURES AND TREE PROTECTION INDICATED ON THESE PLANS. INSTALL SEDIMENT BASINS AND SEDIMENT TRAPS IF REQUIRED AT LOW AREAS OF SITE OR AS ORDERED BY THE ENGINEER OR AS SHOWN ON THESE PLANS.
- 4. CLEAR AND GRUB SITE. STOCKPILE CHIPS. STOCKPILE TOPSOIL. INSTALL SEDIMENT AND EROSION CONTROLS AT STOCKPILES.
- 5. BUILDING AND SITE DEMOLITION AND REMOVAL. PAVEMENT REMOVAL.
- 6. INSTALL SILT FENCE. COMMENCE INSTALLATION OF STORM DRAINAGE SYSTEM.
- 7. COMMENCE EARTHWORK. INSTALL ADDITIONAL SEDIMENT AND EROSION CONTROLS AS WORK PROGRESSES AND CONTINUE STORM DRAINAGE SYSTEM CONSTRUCTION, TOPSOIL AND SEED SLOPES WHICH HAVE ACHIEVED FINAL SITE GRADING.
- 8. CONSTRUCTION STAKING OF ALL BUILDING CORNERS, UTILITIES, ACCESS DRIVES, AND PARKING AREAS.
- 9. ROUGH GRADING AND FILLING OF SUBGRADES AND SLOPES.
- 10. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
- 11. BEFORE DISPOSING OF SOIL OR RECEIVING BORROW FOR THE SITE, THE CONTRACTOR MUST PROVIDE EVIDENCE THAT EACH SPOIL OR BORROW AREA HAS A SEDIMENT AND EROSION CONTROL PLAN APPROVED BY THE TOWN OF NORTH HAVEN AGENT AND WHICH IS BEING IMPLEMENTED AND MAINTAINED. THE CONTRACTOR SHALL ALSO NOTIFY THE TOWN OF NORTH HAVEN AGENT IN WRITING OF ALL RECEIVING SPOIL AND BORROW AREAS WHEN THEY HAVE BEEN IDENTIFIED.
- 12. CONTINUE INSTALLATION OF STORM DRAINAGE AS SUBGRADE ELEVATIONS ARE ACHIEVED.
- 13. BUILDING FOUNDATION SUBGRADE AND PAD SUBGRADE PREPARATION.
- 14. BUILDING FOUNDATION CONSTRUCTION. BEGIN BUILDING SUPERSTRUCTURE
- 15. THROUGHOUT CONSTRUCTION SEQUENCE, REMOVE SEDIMENT FROM BEHIND SILT FENCES, HAY BALES AND OTHER EROSION CONTROL DEVICES, AND FROM SEDIMENT BASINS AND SEDIMENT TRAPS AS REQUIRED. REMOVAL SHALL BE ON A PERIODIC BASIS (EVERY SIGNIFICANT RAINFALL OF 0.25 INCH OR GREATER). INSPECTION OF SEDIMENT AND EROSION CONTROL MEASURES SHALL BE ON A WEEKLY BASIS AND AFTER EACH RAINFALL OF 0.25 INCHES OR GREATER. SEDIMENT COLLECTED SHALL BE DEPOSITED AND SPREAD EVENLY UPLAND ON SLOPES DURING CONSTRUCTION.
- 16. INSTALL SANITARY LATERAL AND UTILITIES. COMPLETE STORM DRAINAGE SYSTEM.
- 17. INSTALL SITE LIGHTING AND TRASH ENCLOSURE.
- 18. COMPLETE GRADING TO SUBGRADES AND CONSTRUCT PARKING AREA SUBGRADE.
- 19. CONSTRUCT CURBS, PAVEMENT STRUCTURE AND SIDEWALKS.
- 20. CONDUCT FINE GRADING.
- 21. PAVING OF PARKING AREAS AND DRIVEWAYS
- 22. FINAL FINE GRADING OF SLOPE AND NON-PAVED AREAS.
- 23. PLACE 4" TOPSOIL ON SLOPES AFTER FINAL GRADING IS COMPLETED. FERTILIZE SEED AND MULCH. SEED MIXTURE TO BE INSTALLED APRIL 15 - JUNE 1 OR AUGUST 15-OCTOBER 1. USE EROSION CONTROL BLANKETS AS REQUIRED OR ORDERED FOR SLOPES GREATER THAN 3:1 AND AS SHOWN ON LANDSCAPE PLANS OR EROSION CONTROL PLANS. FOR TEMPORARY STABILIZATION BEYOND SEEDING DATES USE ANNUAL RYE AT 4.0 LBS/1.000 S.F. FERTILIZE WITH 10-10-10 AT 1.0 LBS. OF NITROGEN PER 1,000 S.F. AND LIME AT 100 LBS/1,000 S.F. (MAX.).

24. LANDSCAPE ISLANDS, INTERIOR NON-PAVED AREAS, AND PERIMETER AREAS.

25. INSTALL SIGNING AND PAVEMENT MARKINGS

- 26. CLEAN STORM DRAINAGE PIPE STRUCTURES, DETENTION SYSTEMS AND WATER QUALITY DEVICES OF DEBRIS AND SEDIMENT.
- 27. UPON DIRECTION OF THE TOWN OF NORTH HAVEN AGENT, SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED FOLLOWING STABILIZATION OF THE SITE. OPERATION REQUIREMENTS

CLEARING AND GRUBBING OPERATIONS

- 1. ALL SEDIMENT AND EROSION CONTROL MEASURES, INCLUDING THE CONSTRUCTION OF TEMPORARY SEDIMENTATION BASINS AND STONE CONSTRUCTION ENTRANCE ANTI-TRACKING PADS, WILL BE INSTALLED PRIOR TO THE START OF CLEARING AND GRUBBING AND DEMOLITION OPERATIONS
- 2. FOLLOWING INSTALLATION OF ALL SEDIMENT AND EROSION CONTROL MEASURES. THE CONTRACTOR SHALL NOT PROCEED WITH GRADING, FILLING OR OTHER CONSTRUCTION OPERATIONS UNTIL THE ENGINEER HAS INSPECTED AND APPROVED ALL
- 3. THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CLEARING AND GRUBBING OPERATIONS SO AS NOT TO DISTURB UNPROTECTED WETLAND AREAS OR SEDIMENT AND EROSION CONTROL DEVICES.
- 4. FOLLOWING THE COMPLETION OF CLEARING AND GRUBBING OPERATIONS, ALL AREAS SHALL BE STABILIZED WITH TOPSOIL AND SEEDING OR CRUSHED STONE AS SOON AS PRACTICAL.

ROUGH GRADING OPERATIONS

- 1. DURING THE REMOVAL AND/OR PLACEMENT OF EARTH AS INDICATED ON THE GRADING PLAN, TOPSOIL SHALL BE STRIPPED AND APPROPRIATELY STOCKPILED FOR REUSE.
- 2. ALL STOCKPILED TOPSOIL SHALL BE SEEDED, MULCHED WITH HAY, AND ENCLOSED BY A SILTATION FENCE.
- FILLING OPERATIONS
- 1. PRIOR TO FILLING, ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE PROPERLY IMPLEMENTED, MAINTAINED AND FULLY INSTALLED, AS DIRECTED BY THE ENGINEER AND AS SHOWN ON THIS PLAN.
- LESS THAN 5% FINES PASSING THROUGH A #200 SIEVE (BANK RUN), SHALL BE PLACED IN LIFT THICKNESSES NOT GREATER THAN THAT SPECIFIED IN PROJECT SPECIFICATIONS AND/OR THE PROJECT GEOTECHNICAL REPORT. LIFTS SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS OR IN THE GEOTECHNICAL REPORT

2. ALL FILL MATERIAL ADJACENT TO ANY WETLAND AREAS, IF APPLICABLE TO THIS PROJECT, SHALL BE GOOD QUALITY, WITH

3. AS GENERAL GRADING OPERATIONS PROGRESS, ANY TEMPORARY DIVERSION DITCHES SHALL BE RAISED OR LOWERED, AS NECESSARY, TO DIVERT SURFACE RUNOFF TO THE SEDIMENT BASINS OR SEDIMENT TRAPS.

PLACEMENT OF DRAINAGE STRUCTURES, UTILITIES, AND BUILDING CONSTRUCTION OPERATIONS.

1. SILT FENCES SHALL BE INSTALLED AT THE DOWNHILL SIDES OF BUILDING EXCAVATIONS, MUD PUMP DISCHARGES, AND UTILITY TRENCH MATERIAL STOCKPILES. HAY BALES/STRAW BALES MAY BE USED IF SHOWN ON THE SEDIMENT AND EROSION CONTROL PLANS OR IF DIRECTED BY THE CIVIL ENGINEER.

FINAL GRADING AND PAVING OPERATIONS

- ALL INLET AND OUTLET PROTECTION SHALL BE PLACED AND MAINTAINED AS SHOWN ON SEDIMENT AND EROSION CONTROL PLANS AND DETAILS, AND AS DESCRIBED IN SPECIFICATIONS AND AS DESCRIBED HEREIN.
- 2. NO CUT OR FILL SLOPES SHALL EXCEED 2:1 EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS, OR JUTE MESH AND VEGETATION. ALL SLOPES SHALL BE SEEDED, AND ANY ROAD OR DRIVEWAY SHOULDER AND BANKS SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS
- 3. PAVEMENT SUB-BASE AND BASE COURSES SHALL BE INSTALLED OVER AREAS TO BE PAVED AS SOON AS FINAL SUB-GRADES ARE ESTABLISHED AND UNDERGROUND UTILITIES AND STORM DRAINAGE SYSTEMS HAVE BEEN INSTALLED.
- AFTER CONSTRUCTION OF PAVEMENT, TOPSOIL, FINAL SEED, MULCH AND LANDSCAPING, REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ONLY AFTER ALL AREAS HAVE BEEN PAVED AND/OR GRASS HAS BEEN WELL ESTABLISHED AND THE SITE IS STABLE AND HAS BEEN INSPECTED AND APPROVED BY THE TOWN OF NORTH HAVEN AGENT. INSTALLATION OF SEDIMENTATION AND EROSION CONTROL MEASURES
- DIG A SIX INCH TRENCH ON THE UPHILL SIDE OF THE DESIGNATED FENCE LINE LOCATION.
- POSITION THE POST AT THE BACK OF THE TRENCH (DOWNHILL SIDE), AND HAMMER THE POST AT LEAST 1.5 FEET INTO THE GROUND.
- C. LAY THE BOTTOM SIX INCHES OF THE FABRIC INTO THE TRENCH TO PREVENT UNDERMINING BY STORM WATER RUN-OFF.
- D. BACKFILL THE TRENCH AND COMPACT.
- BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PARALLEL TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.

B. BALES SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED THE WIDTH OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF FOUR INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE BARRIER.

- C. EACH BALE SHALL BE SECURELY ANCHORED BY AT LEAST TWO (2) STAKES.
- D. THE GAPS BETWEEN BALES SHALL BE WEDGED WITH STRAW TO PREVENT WATER LEAKAGE.

E. THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE, TO ENSURE THAT RUN-OFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER, BUT NOT AROUND IT.

OPERATION AND MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES

- ALL SILTATION FENCES SHALL BE INSPECTED AS A MINIMUM WEEKLY OR AFTER EACH RAINFALL. ALL DETERIORATED FABRIC AND DAMAGED POSTS SHALL BE REPLACED AND PROPERLY REPOSITIONED IN ACCORDANCE WITH THIS PLAN.
- B. SEDIMENT DEPOSITS SHALL BE REMOVED FROM BEHIND THE FENCE WHEN THEY REACH A MAXIMUM HEIGHT OF ONE FOOT.
- HAY BALES/STRAW BALES A. ALL HAY BALE/STRAW BALE RINGS SHALL BE INSPECTED FOLLOWING EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE PROMPTLY MADE AS NEEDED.
- B. DEPOSITS SHALL BE REMOVED AND CLEANED-OUT IF ONE HALF OF THE ORIGINAL HEIGHT OF THE BALES BECOMES FILLED

SEDIMENT AND EROSION CONTROL PLAN

- 1. HAY BALE/STRAW BALE FILTERS WILL BE INSTALLED AT ALL CULVERT OUTLETS IF CULVERT OUTLETS ARE APPLICABLE TO THIS PROJECT AND SILTATION FENCE INSTALLED ALONG THE TOE OF ALL CRITICAL CUT AND FILL SLOPES.
- 2. CULVERT DISCHARGE AREAS WILL BE PROTECTED WITH RIP RAP CHANNELS. ENERGY DISSIPATORS WILL BE INSTALLED AS SHOWN ON THESE PLANS AND AS NECESSARY.
- 3. CATCH BASINS WILL BE PROTECTED WITH HAY BALE/STRAW BALE FILTERS, SILT SACKS, SILTATION FENCE, OR OTHER INLET PROTECTION DEVICES PER DETAILS, THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE
- 4. ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CTDEEP 2002 GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL LATEST EDITION.
- 5. SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSTALLED PRIOR TO DEMOLITION AND/OR CONSTRUCTION WHENEVER
- 6. ALL CONTROL MEASURES WILL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE DEMOLITION AND CONSTRUCTION
- PERIOD UNTIL THE SITE IS DETERMINED TO BE STABILIZED BY THE AUTHORITY HAVING JURISDICTION. 7. ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PERIOD, IF NECESSARY OR REQUIRED OR
- AS DIRECTED BY THE CIVIL ENGINEER OR BY THE AUTHORITY HAVING JURISDICTION. 8. SEDIMENT REMOVED FROM EROSION CONTROL STRUCTURES WILL BE DISPOSED IN A MANNER WHICH IS CONSISTENT WITH
- THE OWNER IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS SEDIMENT AND EROSION CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES. INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFICATION OF THE TOWN OF NORTH HAVEN OFFICE OR AUTHORITY HAVING JURISDICTION OF ANY TRANSFER OF THIS RESPONSIBILITY AND FOR CONVEYING A COPY OF THE SEDIMENT AND EROSION CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.
- SEDIMENT AND EROSION CONTROL NOTES 1. THE SEDIMENT AND EROSION CONTROL PLAN IS ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL TREATMENT FOR THIS SITE. SEE SEDIMENT AND EROSION CONTROL DETAILS AND CONSTRUCTION SEQUENCE. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER CONTRACT PLANS FOR APPROPRIATE INFORMATION.

THE INTENT AND REQUIREMENTS OF THE SEDIMENT AND EROSION CONTROL PLANS, NOTES, AND DETAILS.

- 2. THE OWNER IS RESPONSIBLE FOR IMPLEMENTING THIS SEDIMENT AND EROSION CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE PROPER INSTALLATION AND MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES. INFORMING ALL PARTIES ENGAGED WITH CONSTRUCTION ON THE SITE OF THE REQUIREMENTS AND OBJECTIVES OF THIS PLAN, INFORMING THE AUTHORITY HAVING JURISDICTION OR COUNTY SOILS CONSERVATION DISTRICT OR INLAND WETLANDS AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY, AND FOR CONVEYING A COPY OF THE SEDIMENT & EROSION CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.
- 3. AN EROSION CONTROL BOND MAY BE REQUIRED TO BE POSTED WITH THE TOWN OF NORTH HAVEN TO ENSURE IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE POSTING OF THIS BOND AND FOR INQUIRIES TO THE TOWN OF NORTH HAVEN FOR INFORMATION ON THE METHOD. TYPE AND AMOUNT OF THE BOND POSTING UNLESS OTHERWISE DIRECTED BY THE OWNER.
- 4. VISUAL SITE INSPECTIONS SHALL BE CONDUCTED WEEKLY, AND AFTER EACH MEASURABLE PRECIPITATION EVENT OF 0.25 INCHES OR GREATER BY QUALIFIED PERSONNEL, TRAINED AND EXPERIENCED IN SEDIMENT AND EROSION CONTROL, TO ASCERTAIN THAT THE SEDIMENT AND EROSION CONTROL (E&S) BMPS ARE OPERATIONAL AND EFFECTIVE IN PREVENTING POLLUTION. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT, AND INCLUDE: A)A SUMMARY OF THE SITE CONDITIONS, E&S BMPS, AND COMPLIANCE; AND B) THE DATE, TIME, AND THE NAME OF THE PERSON CONDUCTING THE INSPECTION
- 5. THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH CTDEEP 2002 GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL LATEST EDITION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. AND AS DIRECTED BY THE TOWN OF NORTH HAVEN. THE CONTRACTOR SHALL KEEP A COPY OF THE GUIDELINES ON-SITE FOR REFERENCE DURING CONSTRUCTION.
- 6. ADDITIONAL AND/OR ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES MAY BE INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE CONTRACTOR, OWNER, SITE ENGINEER, THE TOWN OF NORTH HAVEN OR GOVERNING AGENCIES. THE CONTRACTOR SHALL CONTACT THE OWNER AND APPROPRIATE GOVERNING AGENCIES FOR APPROVAL IF ALTERNATIVE CONTROLS OTHER THAN THOSE SHOWN ON THE PLANS ARE PROPOSED.
- OR GREATER RAINFALL), OR AT LEAST WEEKLY, TO VERIFY THAT THE CONTROLS ARE OPERATING PROPERLY AND MAKE REPAIRS WHERE NECESSARY. 8. THE CONTRACTOR SHALL KEEP A SUPPLY OF SEDIMENT AND EROSION CONTROL MATERIAL (HAY BALES, SILT FENCE, JUTE

7. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROLS BEFORE AND AFTER EACH STORM (0.25 INCHES

9. PROTECT EXISTING TREES THAT ARE TO BE SAVED BY FENCING AT THE DRIP LINE OR AS SHOWN WITH SNOW FENCE, ORANGE SAFETY FENCE, OR EQUIVALENT FENCING. ANY LIMB TRIMMING SHOULD BE DONE BEFORE CONSTRUCTION BEGINS IN THAT AREA; FENCING SHALL BE MAINTAINED AND REPAIRED DURING CONSTRUCTION

10. INSTALL PERIMETER SEDIMENT AND EROSION CONTROLS PRIOR TO CLEARING OR CONSTRUCTION. ALL CONSTRUCTION SHALL

RIBBONS, OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL REMAIN ON THE UPHILL SIDE OF THE

BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE, WHICH SHALL BE MARKED WITH SILT FENCE, SAFETY FENCE, HAY BALES,

MESH, RIP RAP, ETC.) ON-SITE FOR MAINTENANCE AND EMERGENCY REPAIRS.

SILT FENCE UNLESS WORK IS SPECIFICALLY CALLED FOR ON THE DOWNHILL SIDE OF THE FENCE. 11. STONE CONSTRUCTION ENTRANCE ANTI-TRACKING PADS SHALL BE INSTALLED AT START OF CONSTRUCTION AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED.

- 12. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING. ALL EARTH STOCKPILES SHALL HAVE HAY BALES OR SILT FENCE AROUND THE LIMIT OF PILE. PILES SHALL BE TEMPORARILY SEEDED IF PILE IS TO REMAIN IN PLACE FOR MORE THAN ONE (1) MONTH.
- 13. SEDIMENT BASINS AND SEDIMENT TRAPS SHALL PROVIDE 134 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE CONTRIBUTING TO THE BASIN. PROVIDE BASIN VOLUMES FOR ALL DISTURBANCE ON SITE.
- 14. COMPLY WITH REQUIREMENTS OF <u>CGS SECTION 22A 430B</u>, FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES AND WITH DEEP RECORD KEEPING AND INSPECTION REQUIREMENTS.
- 15. STONE CONSTRUCTION ENTRANCE ANTI-TRACKING PADS SHALL BE INSTALLED PRIOR TO ANY ON SITE EXCAVATION AND SHALL BE MAINTAINED DURING ALL DEMOLITION, EXCAVATION AND CONSTRUCTION ACTIVITIES.
- 16. MINIMIZE LAND DISTURBANCES. SEED AND MULCH DISTURBED AREAS WITH TEMPORARY MIX AS SOON AS PRACTICABLE (ONE WEEK MAXIMUM UNSTABILIZED PERIOD) USING PERENNIAL RYEGRASS AT 40 LBS PER ACRE. MULCH ALL CUT AND FILL SLOPES AND SWALES WITH LOOSE HAY AT A RATE OF 2 TONS PER ACRE. IF NECESSARY, REPLACE LOOSE HAY ON SLOPES WITH EROSION CONTROL BLANKETS OR JUTE CLOTH. MODERATELY GRADED AREAS, ISLANDS, AND TEMPORARY CONSTRUCTION STAGING AREAS MAY BE HYDROSEEDED WITH TACKIFIER.
- 17. MAINTAIN EXISTING PAVED AREAS FOR CONSTRUCTION STAGING FOR AS LONG AS POSSIBLE.
- 18. SILT FENCE AND OTHER SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH CONTRACT DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS PRIOR TO WORK IN ANY UPLAND AREAS.
- 19. EXCAVATED MATERIAL FROM TEMPORARY SILT TRAPS MUST BE STOCKPILED ON UPHILL SIDE OF SILT FENCE.
- 20. INSTALL SILT FENCE ACCORDING TO MANUFACTURER'S INSTRUCTION, PARTICULARLY, BURY LOWER EDGE OF FABRIC INTO GROUND. SILT FENCE SHALL BE TENCATE ENVIROFENCE, PROPEX GEOTEX OR EQUIVALENT APPROVED BY THE CIVIL ENGINEER. FILTER FABRIC USED SHALL BE TENCATE 140N OR 170N, OR APPROVED EQUIVALENT. SEE SPECIFICATIONS FOR FURTHER INFORMATION.
- 21. WHERE INDICATED ON SEDIMENT AND EROSION CONTROL PLANS USE NEW HAY/STRAW BALES AND REPLACE THEM WHENEVER THEIR CONDITION DETERIORATES BEYOND REASONABLE USABILITY. STAKE BALES SECURELY INTO GROUND AND BUTT TIGHTLY TOGETHER TO PREVENT UNDERCUTTING AND BYPASSING.
- 22. INSTALL TEMPORARY DIVERSION DITCHES, PLUNGE POOLS, SEDIMENT BASINS, SEDIMENT TRAPS, CONCRETE WASH PITS AND DEWATERING PITS AS SHOWN AND AS NECESSARY DURING VARIOUS PHASES OF CONSTRUCTION TO CONTROL RUNOFF UNTIL UPHILL AREAS ARE DETERMINED TO BE STABILIZED BY THE AUTHORITY HAVING JURISDICTION. LOCATION OF TEMPORARY SEDIMENT BASINS WILL REQUIRE REVIEW AND APPROVAL BY THE CIVIL ENGINEER AND AUTHORITY HAVING JURISDICTION.
- 23. DIRECT ALL DEWATERING PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE SUCH AS TEMPORARY PITS, SEDIMENT TRAP, SEDIMENT BASINS OR GRASS FILTERS WITHIN THE APPROVED LIMIT OF DISTURBANCE. DISCHARGE TO STORM DRAINAGE SYSTEM OR SURFACE WATERS FROM SEDIMENT CONTROLS SHALL BE CLEAR.
- 24. BLOCK END OF STORM SEWERS IN EXPOSED TRENCHES WITH BOARDS AND SANDBAGS AT THE END OF EACH WORKING DAY
- 25. SWEEP AFFECTED PORTIONS OF OFF SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRACKING IS NOT A PROBLEM) DURING CONSTRUCTION. OTHER DUST CONTROL MEASURES TO BE USED AS NECESSARY INCLUDE WATERING DOWN DISTÚRBED AREAS, USING CALCIUM CHLORIDE, AND COVERING LOADS ON DUMP TRUCKS.
- 26. PERIODICALLY CHECK ACCUMULATED SEDIMENT LEVELS IN THE SEDIMENT BASINS AND SEDIMENT TRAPS DURING CONSTRUCTION AND CLEAN ACCUMULATED SILT WHEN NECESSARY OR WHEN ONE FOOT OF SEDIMENT HAS ACCUMULATED OR PER SPECIFIC CLEANOUT MARKER ELEVATION. CLEAN ACCUMULATED SEDIMENT FROM CATCH BASIN SUMPS AS NECESSARY AND AS DIRECTED BY THE CIVIL ENGINEER OR OWNER'S CONSTRUCTION REPRESENTATIVE. REMOVE ACCUMULATED SEDIMENT FROM BEHIND HAY/STRAW BALES AND SILT FENCE WHEN LEVEL REACHES HALF THE HEIGHT OF THE BALE OR ONE FOOT AT SILT FENCE. DISPOSE OF SEDIMENT LEGALLY EITHER ON OR OFF SITE.
- 27. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION
- 28. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG OR EQUIVALENT SEDIMENT REMOVAL FACILITY, OVER UNDISTURBED VEGETATED AREAS.
- 29. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF UTILITY AND STORM PIPE TRENCHES SO AS TO ALLOW THE TRENCH TO INTERCEPT ALL SILT LADEN RUNOFF.
- 30. CONTRACTOR SHALL ONLY EXCAVATE AS MUCH UTILITY AND STORM PIPE TRENCH WORK AS CAN BE COMPLETED, BACKFILLED AND STABILIZED IN ONE DAY SO AS TO LIMIT THE AMOUNT OF OPEN, DISTURBED TRENCHING.
- 31. ANY STOCKPILES OF STRIPPED MATERIALS ARE TO BE PERIODICALLY SPRAYED WITH WATER OR A CRUSTING AGENT TO STABILIZE POTENTIALLY WIND-BLOWN MATERIAL. HAUL ROADS BOTH INTO AND AROUND THE SITE ARE TO BE SPRAYED AS NEEDED TO SUPPRESS DUST. TRUCKS HAULING IMPORT FILL MATERIAL ARE TO BE TARPED TO AID IN THE CONTROL OF AIRBORNE DUST. DURING HIGH WIND EVENTS (20 TO 30 MPH SUSTAINED) CONSTRUCTION ACTIVITY SHALL BE LIMITED OR CEASED IF DUST CANNOT BE CONTROLLED BY WETTING.
- 32. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING OR OTHER MOVEMENTS UNLESS OTHERWISE DETERMINED BY THE AUTHORITY HAVING JURISDICTION.
- 33. MAINTAIN ALL PERMANENT AND TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP PARKING LOT AND REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS WHEN AUTHORIZED BY AUTHORITY HAVING JURISDICTION. FILE NOT (NOTICE OF TERMINATION) WITH AUTHORITY HAVING JURISDICTION RESPONSIBLE FOR REGULATING STORM WATER DISCHARGES FROM CONSTRUCTION ÁCTIVITIES PER NPDES.



355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

E 5)

 \mathbf{O}

-28459V880<u>-28455</u>F

R.M.D

R.M.D

S.M.K

NONE

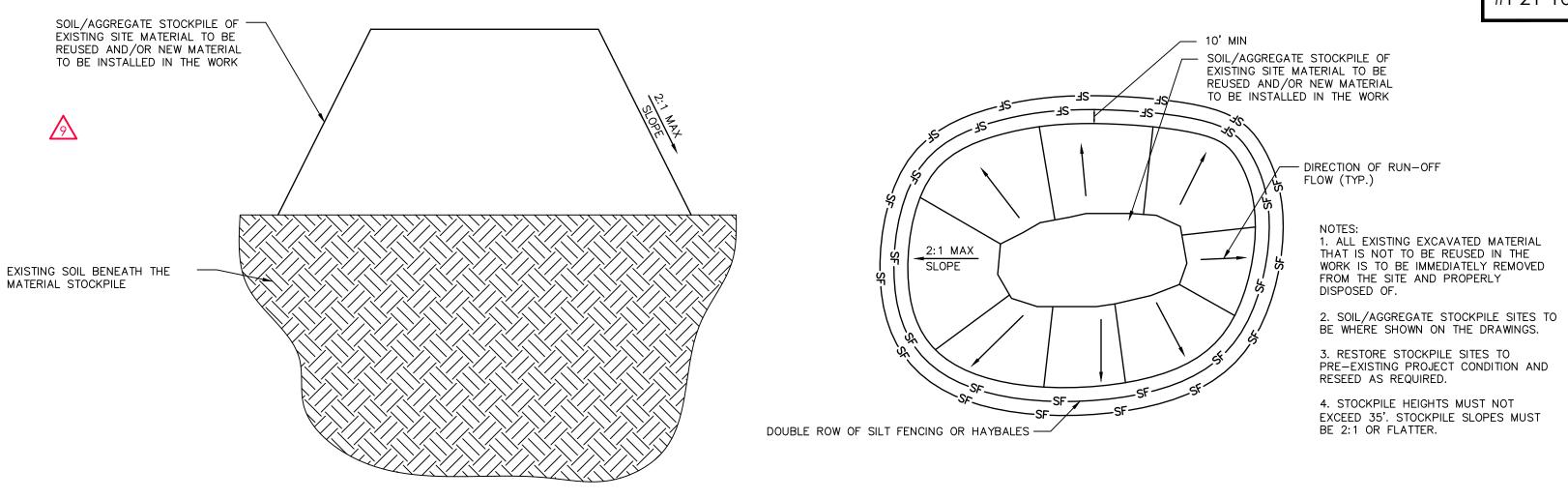
1901997

07/07/2021

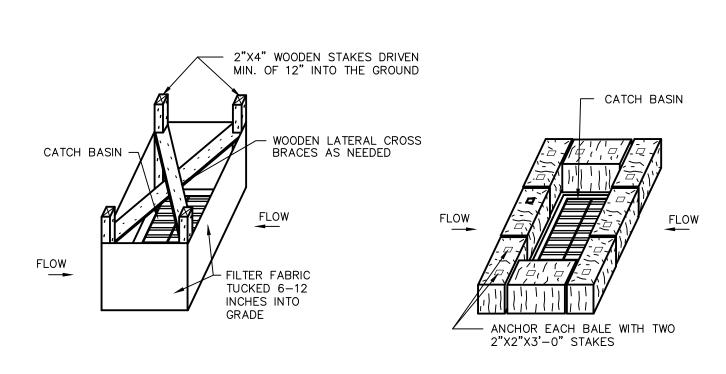
Reviewed Scale Project No CAD File EC190199701

Designed

SEDIMENT AND **EROSION** CONTROL



MATERIALS STOCKPILE DETAIL BLEC-006

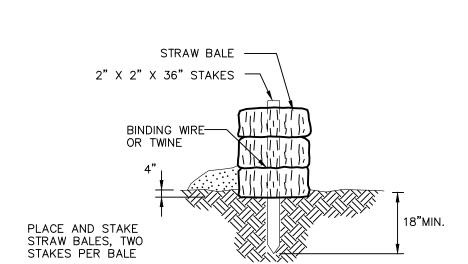


SILT FENCE INSTALLATION AT CATCH BASINS AT LOW POINTS

HAY BALE FILTER INSTALLATION AT CATCH BASIN AT LOW POINTS

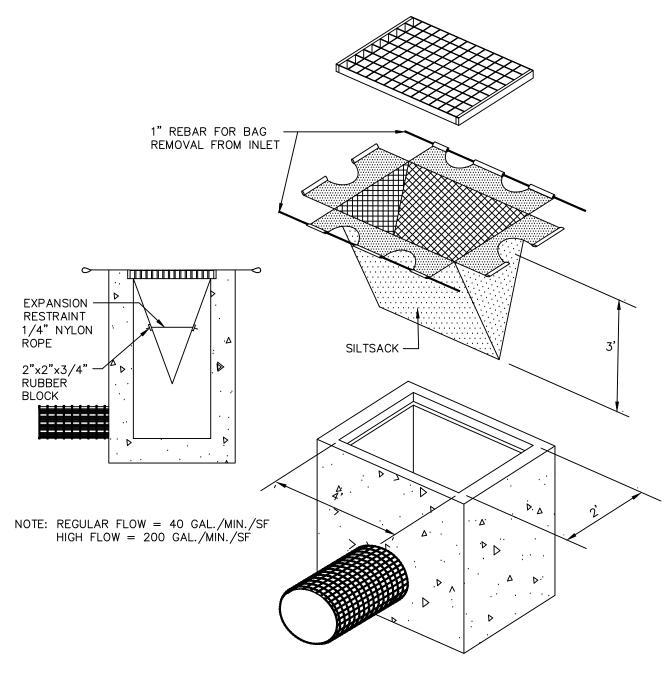
STORMWATER INLETS WHICH DO NOT DISCHARGE TO SEDIMENT TRAPS OR BASINS, MUST BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED. SEDIMENT MUST BE REMOVED FROM INLET PROTECTION AFTER EACH STORM EVENT.

CATCH BASIN EROSION CONTROL N.T.S. BLEC-012



STRAW BALE BARRIERS SHOULD NOT BE USED FOR MORE THAN 3 SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE ABOVE GROUND HEIGHT OF THE BARRIER. ANY SECTION OF STRAW BALE BARRIER WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER

STRAW BALE DETAIL N.T.S. BLEC-007



N.T.S.

- PAVED ROAD

INSTALL SUB—BASE OF FREE DRAINING BACKFILL OR ROAD STABILIZATION GEOTEXTILE AS NECESSARY ON UNSTABLE SOILS.

PAVED

ROAD 7

CT DEEP CE-2

2. ATTACH FILTER FABRIC TO THE POSTS AND EXTEND IT TO

THE TRENCH.

ELEVATION POINTS "A" SHOULD BE HIGHER THAN POINT "B".

– 50' – 100' LENGTH —

10' MIN. RADIUS ----

ANTI-TRACKING PAD

TYPICAL CONSTRUCTION ENTRANCE

3. BACKFILL THE

CTEC-003

TRENCH AND COMPACT THE EXCAVATED SOIL.

GRADATION SHALL BE DOT - NO. 3 OR ASTM C-33 NO. 3

1.5" MIN X 1.5" MIN —

X 42" MIN LONG

ANGLE 10°

UPSLOPE FOR STABILITY AND SELF CLEANING 1. SET POSTS AND EXCAVATE A 6"

WIDE X 6" DEEP

POST DOWNSLOPE.

COMPACTED — BACKFILL

BOTTOM OF

DRAINAGEWAY

PLAN VIEW

DEPTH INTO VORIGINAL GROUND

TRENCH, ON UPSLOPE SIDE SET

STRIPPED GROUND LINE (REMOVE TOPSOIL AND ORGANICS PRIOR TO CRUSHED STONE PLACEMENT)

SILT FENCE BARRIER

EC-3

Q 2022 BL COMPANIES, INC. THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF BL COMPANIES.

SILTSACK DETAIL BLEC-005

355 Research Parkway

Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

OPOSED DEVELOPMENT4 WASHINGTON AVE (ROUTE 5)
4 ORTH HAVEN, CONNECTICUT

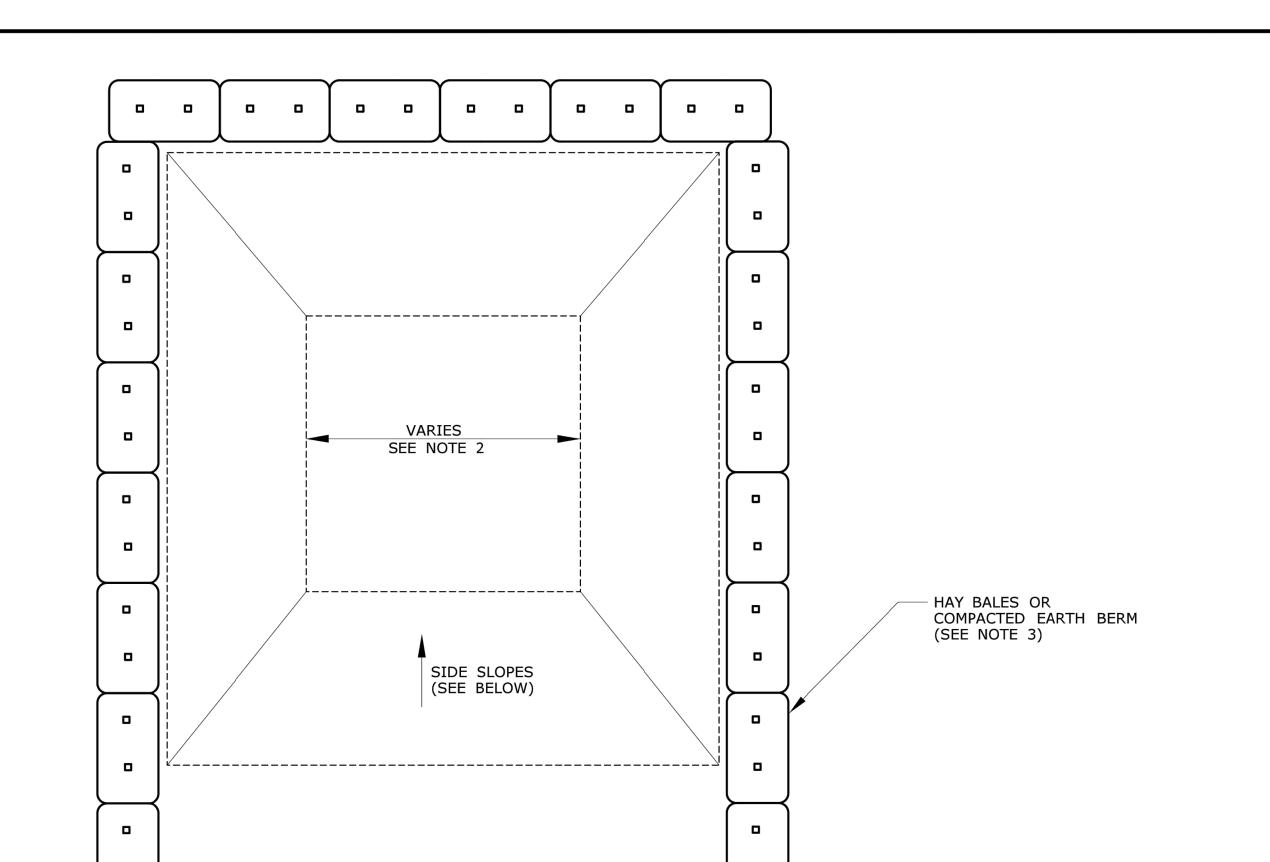
- 284597886-1018459788 R.M.D Designed R.M.D. Drawn

S.M.K. Reviewed NONE Scale 1901997 Project No. 07/07/2021 Date CAD File: EC190199701

SEDIMENT AND EROSION

CONTROL DETAILS

Sheet No.

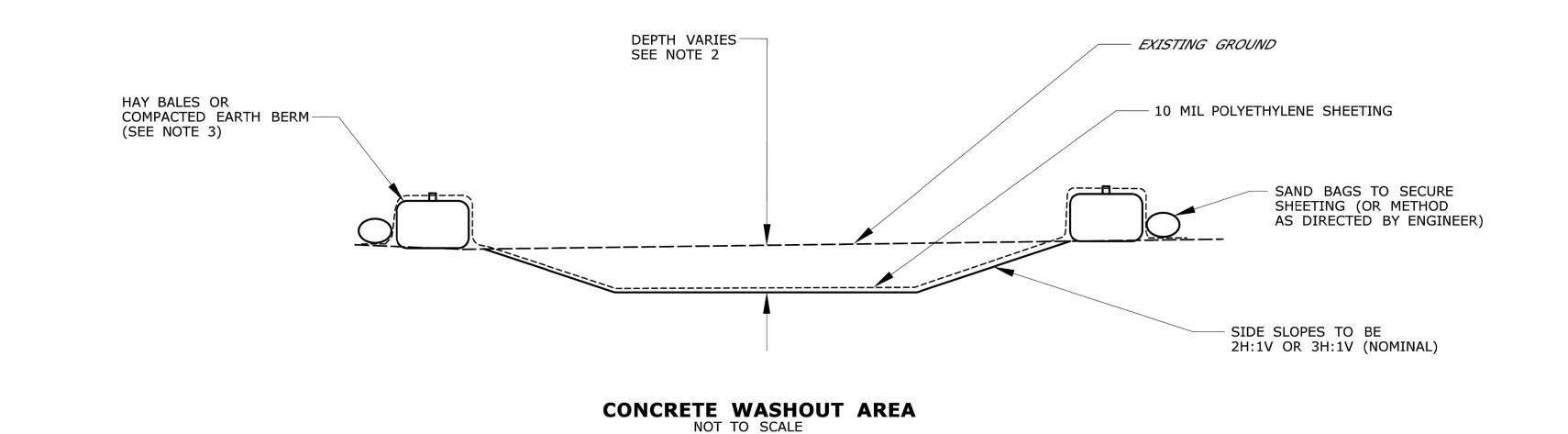


GENERAL NOTES:

- 1. CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY SELF-CONTAINED.
- 2. THE CONTRACTOR SHALL SUBMIT THE DESIGN, LOCATION AND SIZING OF THE CONCRETE WASHOUT AREA(S) WITH THE PROJECT'S EROSION AND SEDIMENTATION CONTROL PLAN AND SHALL BE APPROVED BY THE ENGINEER.

LOCATION: WASHOUT AREA(S) ARE TO BE LOCATED AT LEAST 50 FEET FROM ANY STREAM, WETLAND, STORM DRAINS, OR OTHER SENSITIVE RESOURCE. THE FLOOD CONTINGENCY PLAN MUST ADDRESS THE CONCRETE WASHOUT IF THE WASHOUT IS TO BE LOCATED WITHIN THE FLOODPLAIN.

- SIZE: THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING, BUT NOT LIMITED TO, OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.
- 3. SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, HAY BALES OR OTHER CONTROL MEASURES, AS APPROVED BY THE ENGINEER, SHOULD BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT AREA FOR CONTAINMENT.
- 4. SIGNS SHOULD BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. WASHOUT AREA(S) SHOULD BE FLAGGED WITH SAFETY FENCING OR OTHER APPROVED METHOD.
- 5. WASHOUT AREA(S) ARE TO BE INSPECTED AT LEAST ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECKED FOR LEAKS, TEARS, OR OVERFLOWS. (AS REQUIRED BY THE CONSTRUCTION SITE ENVIRONMENTAL INSPECTION REPORT) WASHOUT AREA(S) SHOULD BE CHECKED AFTER HEAVY RAINS.
- 6. HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S DEPTH. THE WASTE CAN BE STORED AT AN UPLAND LOCATION, AS APPROVED BY THE ENGINEER. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS, AND GUIDELINES.
- 7. PAYMENT FOR THIS ITEM IS TO BE INCLUDED UNDER THE GENERAL COST OF THE WORK FOR THE PROJECT, INCLUDING SITE RESTORATION.



(SEE NOTE 2)

PLAN

DESIGN INITIATED CHANGE ORDER NO. Y - mm/dd/yy

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. STATE OF CONNECTICUT OFFICE OF ENGINEERING DRAWING NO. DRAWING TITLE: **DEPARTMENT OF TRANSPORTATION** CONCRETE WASHOUT AREA Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 1/30/2019



355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

> VELOPMENT AVE (ROUTE 5) CONNECTICUT OPO 14 WASI VORTH

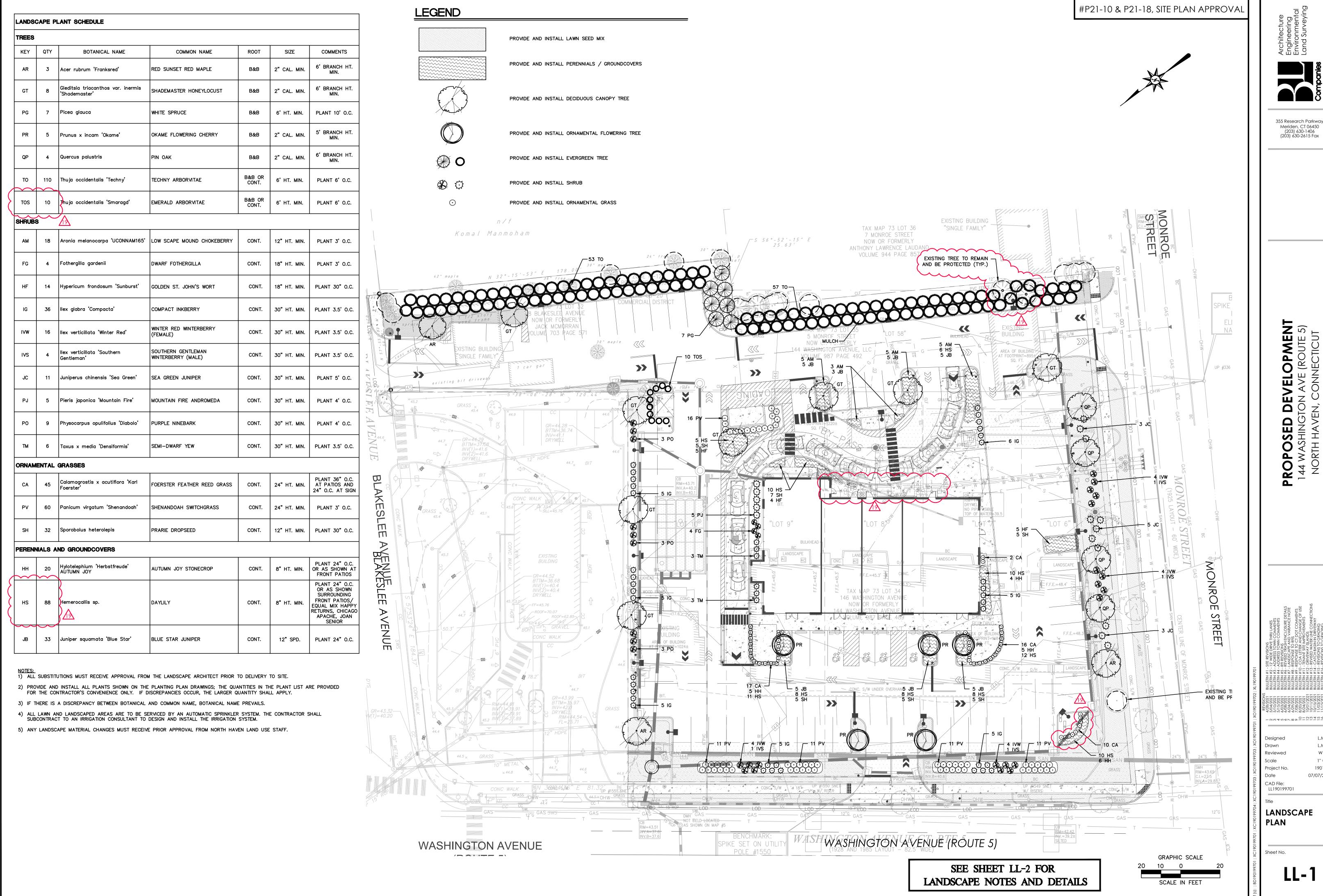
1901997

R.M.D R.M.D. S.M.K. Reviewed NONE

Scale Project No. 07/07/2021 Date CAD File: EC190199701

SEDIMENT AND EROSION CONTROL

DETAILS Sheet No.



SED DEVELOPMENT SHINGTON AVE (ROUTE 5) H HAVEN, CONNECTICUT

L.M.W. L.M.W.

W.E.V. 1" = 20' 1901997 07/07/2021

LANDSCAPE

LL-1

A. LAWN SEEDING MIX:

15 % PERENNIAL RYEGRASS (BLEND OF 3 IMPROVED HYBRIDS) 25 % FINE LEAF OR CREEPING FESCUE (BLEND OF 3 IMPROVED HYBRIDS) 60 % KENTUCKY BLUEGRASS (BLEND OF 3 IMPROVED HYBRIDS) SEEDING RATE: 5 LBS/1,000 S.F.

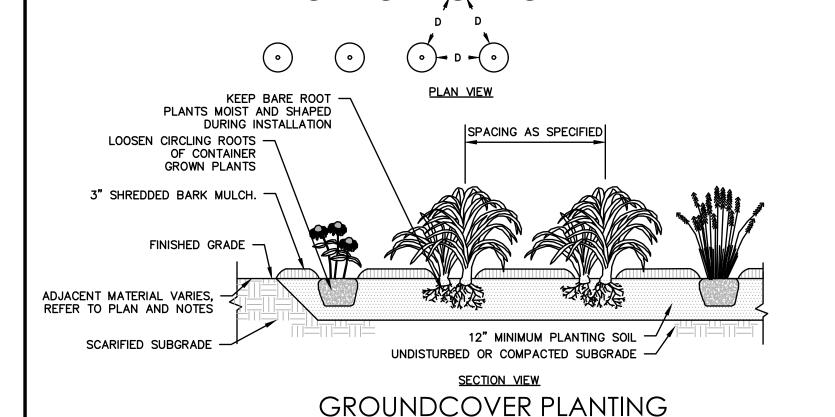
SEEDING DATES: AUGUST 15 - OCTOBER 1 AND APRIL 15 - JUNE 30 UNLESS OTHERWISE APPROVED BY THE OWNER OR LANDSCAPE ARCHITECT.

PLANT TREE SO THAT ROOT FLARE IS KEEP MULCH AWAY FROM ROOT FLARE 1"-2" ABOVE FINISHED GRADE. POINT WHERE ROOT FLARE BEGINS FINISHED GRADE

ROOT FLARE DIAGRAM

SECTION VIEW

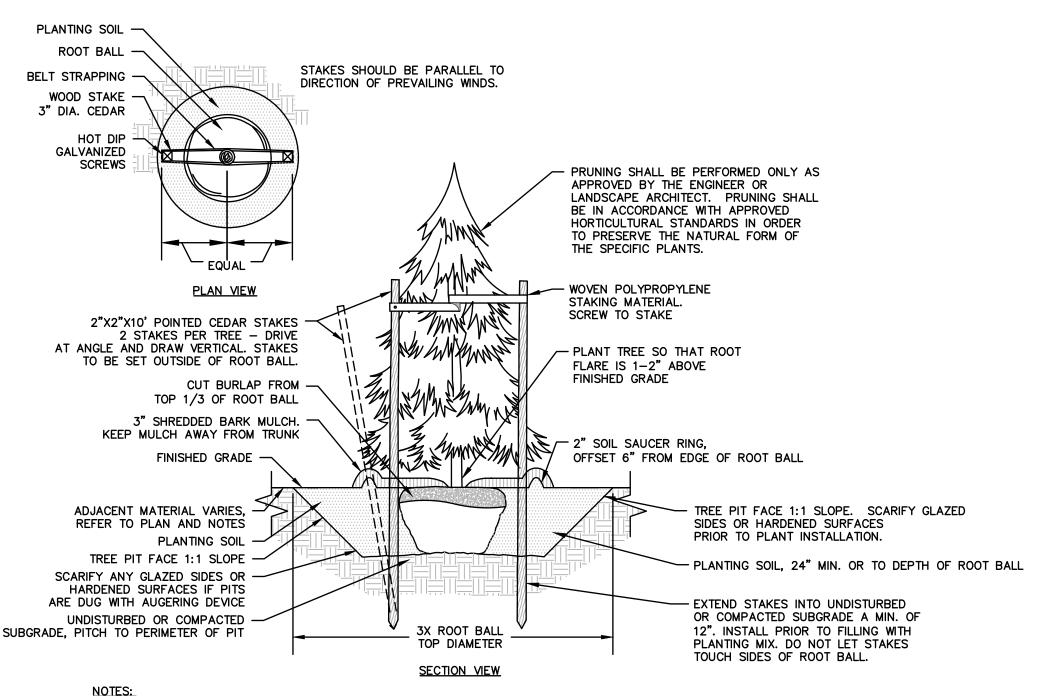
N.T.S



N.T.S

EXCAVATE ENTIRE PLANT BED WHERE SET TOP OF ROOT PLANTINGS ARE CONTIGUOUS. BALL AT OR SLIGHTLY ABOVE FIN. GRADE FINISHED GRADE " SHREDDED BARK MULCH. KEEP MULCH AWAY FROM TRUNK PLANTING SOIL, 12" MIN. OR ADJACENT MATERIAL VARIES, DEPTH OR ROOT BALL REFER TO PLAN AND NOTES CUT BURLAP FROM TOP -- GENTLY TEASE ROOTS FROM SIDE OF ROOT BALL. 1/3 OF ROOT BALL - UNDISTURBED OR COMPACTED SUBGRADE. 3X ROOT BALL 3X ROOT BALL SHRUB PIT FACE 1:1 SLOPE. SCARIFY GLAZED SIDES TOP DIAMETER
SEE NOTE TOP DIAMETER OR HARDENED SURFACES PRIOR TO PLANT SEE NOTE BALLED AND BURLAPPED <u>CONTAINER</u> SECTION VIEW SHRUB PLANTING

N.T.S



PLANT CENTER

D" VARIES; SEE LANDSCAPE

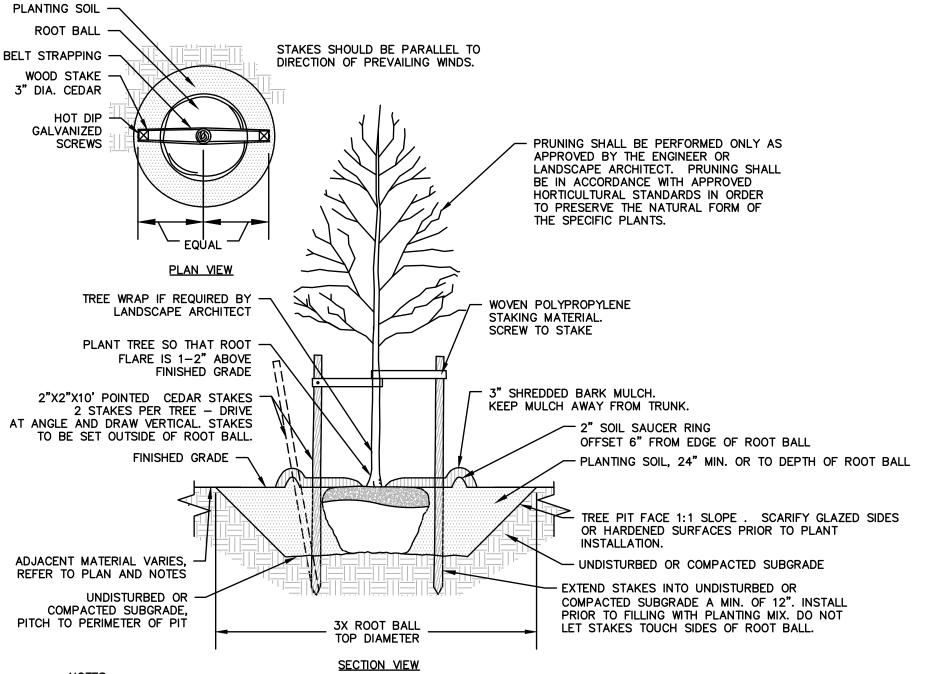
SCHEDULE FOR SPACING OR PLANT AS

DIRECTED BY LANDSCAPE ARCHITECT

1. STAKING FOR TREES ON 4:1 SLOPES OR LESS TO BE PERFORMED AT CONTRACTOR'S DISCRETION

- 2. WOVEN POLYPROPYLENE STAKING MATERIAL SHALL BE DEEPROOT ARBORTIE (GREEN) OR APPROVED EQUIVALENT. MATERIAL SHALL BE LOOPED AROUND TREE THROUGH EACH OTHER, TWISTED, AND SECURED TO THE STAKE. INSTALL SPECIFIED MATERIAL IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
- 3. BEFORE IN HOLE, REMOVE BOTTOM OF CAGE. ONCE IN HOLE, REMOVE REST OF CAGE FROM ROOT BALL. REMOVE TWINE AND BURLAP FROM TOP 1/3 OF ROOT BALL - SCORE REMAINING 2/3 OF BURLAP. IF BURLAP IS SYNTHETIC OR HAS BEEN TREATED WITH ANTI-DESSICENT, COMPLETELY REMOVE IT FROM ROOT BALL.

EVERGREEN TREE PLANTING



1. STAKING FOR TREES ON SLOPES SHALLOWER THAN 4:1 OR LESS THAN 3" CALIPER TO BE PERFORMED AT CONTRACTORS DISCRETION.

- 2. WOVEN POLYPROPYLENE STAKING MATERIAL SHALL BE DEEPROOT ARBORTIE (GREEN) OR APPROVED EQUIVALENT. MATERIAL SHALL BE LOOPED AROUND TREE THROUGH EACH OTHER, TWISTED, AND SECURED TO THE STAKE. INSTALL SPECIFIED MATERIAL IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
- 3. BEFORE IN HOLE, REMOVE BOTTOM OF CAGE. ONCE IN HOLE, REMOVE REST OF CAGE FROM ROOT BALL. REMOVE TWINE AND BURLAP FROM TOP 1/3 OF ROOT BALL - SCORE REMAINING 2/3 OF BURLAP. IF BURLAP IS SYNTHETIC OR HAS BEEN TREATED WITH ANTI-DESSICANT, COMPLETELY REMOVE IT FROM ROOT BALL.

DECIDUOUS TREE PLANTING

LANDSCAPE NOTES

THE LANDSCAPE PLAN AND DETAIL SHEET ARE FOR LANDSCAPING INFORMATION ONLY. REFER TO THE OTHER PLANS FOR ALL OTHER INFORMATION.

2. COORDINATE PLANT MATERIAL LOCATIONS WITH SITE UTILITIES. UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UNDERGROUND OR OVERHEAD UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE. PRIOR TO DIGGING AND INSTALLATION OF PLANT MATERIAL, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT "(800)922-4455" AND VERIFY ALL UTILITY SYSTEM LOCATIONS.

3. THE LOCATIONS FOR PLANT MATERIAL ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT DUE TO UTILITY LOCATIONS AND SITE CONDITIONS. THE CONTRACTOR SHALL ACCURATELY STAKE OUT THE LOCATIONS FOR ALL PLANTS FOR THE REVIEW, ADJUSTMENT, AND APPROVAL BY OWNER OR LANDSCAPE ARCHITECT PRIOR TO PLANTING.

4. THE CONTRACTOR SHALL GUARANTEE THAT ALL PLANTS SHALL BE HEALTHY AND FREE OF DISEASE FOR A PERIOD OF ONE YEAR OR JUNE 1ST OF THE YEAR FOLLOWING INSTALLATION, WHICHEVER IS LONGER, AFTER SUBSTANTIAL COMPLETION AND ACCEPTANCE BY OWNER OR LANDSCAPE ARCHITECT. CONTRACTOR SHALL REPLACE ANY DEAD OR UNHEALTHY PLANTS AT CONTRACTOR'S EXPENSE. PLANT MATERIAL REPLACEMENTS SHALL BE GUARANTEED FOR ONE FULL YEAR FROM DATE OF REPLACEMENT. REPLACEMENT PLANTS SHALL BE THE SAME AS SPECIFIED FOR THE ORIGINAL PLANTING. REPLACEMENTS SHALL BE MADE AS MANY TIMES AS NECESSARY TO ENSURE HEALTHY PLANTS. FINAL ACCEPTANCE SHALL BE MADE IF ALL PLANTS MEET THE GUARANTEE REQUIREMENTS INCLUDING MAINTENANCE. MAINTENANCE RESPONSIBILITIES INCLUDE CULTIVATING. SPRAYING, WEEDING, WATERING, TIGHTENING GUYS, PRUNING, FERTILIZING, MULCHING, AND ANY OTHER OPERATIONS NECESSARY TO MAINTAIN PLANT VIABILITY. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND CONTINUE UNTIL THE END OF THE GUARANTEE PERIOD. DURING THE LANDSCAPE MAINTENANCE PERIOD (GUARANTEE) THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF ANY SITE CONSTRAINTS (PHYSICAL, ENVIRONMENT, ETC.) OR MAINTENANCE DEFICIENCIES THAT MAY AFFECT LANDSCAPE VEGETATION ESTABLISHMENT.

5. THE CONTRACTOR SHALL SUPPLY ALL LABOR, PLANTS, AND MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND LISTED IN THE PLANT SCHEDULE. IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT SCHEDULE AND THOSE REQUIRED BY THE DRAWINGS, THE LARGER SHALL APPLY. ALL PLANTS SHALL BE ACCLIMATED BY THE SUPPLY NURSERY TO THE LOCAL HARDINESS ZONE AND BE CERTIFIED THAT THE PLANTING MATERIAL HAS BEEN GROWN FOR A MINIMUM OF TWO YEARS AT THE SOURCE AND OBTAINED WITHIN 200 MILES OF PROJECT SITE UNLESS OTHERWISE APPROVED BY OWNER OR LANDSCAPE ARCHITECT.

6. PLANTS SHALL HAVE TAGS THAT IDENTIFY PLANT GENUS, SPECIES, CULTIVAR (IF APPLICABLE), PLANT COMMON NAME, NAME OF SOURCE NURSERY, AND SIZE OF PLANT FOR REVIEW OF OWNER OR LANDSCAPE ARCHITECT.

NO PLANT SHALL BE PLACED IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR LANDSCAPE ARCHITECT. STAKING THE LOCATION OF ALL TREES AND SHRUBS SHALL BE COMPLETED PRIOR TO PLANTING FOR APPROVAL BY THE OWNER OR LANDSCAPE ARCHITECT.

MULCHED TO A DEPTH OF 2". MULCH SHALL BE UNCOLORED TRIPLE-SHREDDED HARDWOOD BARK MULCH, AGED AT LEAST 6

8. FINAL GRADES SHALL BLEND SMOOTHLY WITH EXISTING GRADES, AND TOP AND BOTTOM OF SLOPES SHALL BE ROUNDED. 9. ALL TREE AND SHRUB MASSINGS SHALL BE MULCHED TO A DEPTH OF 3". ANNUAL AND PERENNIAL BEDS SHALL BE

10. IF TREE STAKING IS PROPOSED, TREE STAKING MUST BE COMPLETED THE SAME DAY AS THE TREE IS INSTALLED. ALL TREES SHALL BE STAKED OR GUYED PER DETAIL.

11. LANDSCAPE PLANTING AREAS MUST BE FREE DRAINING. PAVEMENT, COMPACTED SUBGRADE, DEAD OR DYING PLANT MATERIAL, BLASTED ROCK, STONES GREATER THAN 1" IN DIAMETER, AND ANY OTHER MATERIAL HARMFUL TO PLANT GROWTH AND DEVELOPMENT SHALL BE REMOVED FROM AREAS TO BE LANDSCAPED AS REQUIRED BY PLANTING DETAILS OR SPECIFICATIONS.

12. PLANTING SOIL:

DEPTH: PLANTING SOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4" OR AS NOTED IN THE LANDSCAPE DETAILS. PLANTING SOIL SHALL BE UTILIZED IN ALL PLANTING AREAS INCLUDING SEEDED AREAS.

TESTING: CONTRACTOR SHALL SUBMIT (2) SOIL SAMPLES PER SOIL STOCKPILE TO A CERTIFIED TESTING LABORATORY TO DETERMINE ACIDITY, ORGANIC CONTENT, MECHANICAL ANALYSIS, AVAILABLE NUTRIENTS (N,P,K,Ca,Mg,S,Fe,Mn,Zn,Cu,B,AI,Pb) AND NECESSARY AMENDMENTS TO SOIL. THE CONTRACTOR SHALL SUBMIT THE TEST RESULTS TO THE OWNER OR LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. TEST RESULTS SHALL RECOMMEND AMENDMENTS THAT WILL ALTER THE SOIL CHARACTERISTICS SUCH THAT THE CHARACTERISTICS DESCRIBED BELOW ARE ACHIEVED AND THE SPECIFIED PLANTS (CONTRACTOR TO PROVIDE LIST TO TESTING LABORATORY) WILL ACHIEVE PROPER GROWTH THAT IS NEITHER DEFICIENT NOR ÈXCESSIVE. THE CONTRACTOR SHALL INCORPORATE THESE AMENDMENTS AT NO INCREASE IN CONTRACT PRICE.

CHARACTERISTICS: PLANTING SOIL MAY CONSIST OF EXISTING ON-SITE SOILS, AMENDED ON-SITE SOILS, OR IMPORTED SOILS MEETING THE FOLLOWING CRITERIA:

- A. NOT TO CONTAIN MATERIALS HARMFUL TO PLANT LIFE, TO BE CLEAN, FERTILE, FRIABLE, AND WELL DRAINING. ALL PLANTING SOIL SHALL BE FREE OF ANY SUBSOIL EARTH CLODS, SODS, STONES OVER 1" IN ANY DIMENSION, STICKS, ROOTS, WEEDS, LITTER AND OTHER DELETERIOUS MATERIAL. PLANTING SOIL SHALL BE
- UNIFORM IN QUALITY AND TEXTURE. B. PLANTING SOIL SHALL HAVE THE FOLLOWING OPTIMUM RANGES UNLESS OTHERWISE APPROVED BY THE OWNER OR LANDSCAPE ARCHITECT.

3% - 6% FOR LAWN OR GRASS AREAS. ORGANIC CONTENT 8%-16% FOR RETENTION OR DETENTION BASINS.

(BY LOSS OF IGNITION AT 375 C METHOD OF TESTING)

C. NUTRIENT LEVELS SHALL BE ACHIEVED BY THE CONTRACTOR'S ADDITION OF AMENDMENTS TO THE PLANTING SOIL TO MEET THE OPTIMUM NUTRIENT LEVELS SPECIFIED IN THE TESTING LABORATORY REPORT FOR EACH OF PLANTS TO BE INSTALLED.

SOIL SHALL BE COMPACTED TO A SURFACE PENETRATION RESISTANCE OF 75-125 LBS/SQ.IN. SOIL MAY BE TREATED FOR WEEDS WITH PRE-EMERGENT OR POST-EMERGENT HERBICIDE, AS NEEDED AND AS APPROPRIATE FOR THE APPLICATION SEASON OR LOCATION, OR ELIMINATE GROWTH OF UNWANTED PLANT MATERIAL. APPLY HERBICIDES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. HERBICIDE APPLICATOR MUST BE LICENSED IN THE STATE OF CONNECTICUT, AND PERFORM APPLICATIONS IN ACCORDANCE WITH LOCAL REQUIREMENTS, PERMITTING STIPULATIONS, AND ANY OTHER RESTRICTIONS INCLUDING AND IN

EXCESS OF STATE AND FEDERAL REGULATIONS. PROPOSED TOPSOIL SHALL MEET THE USDA SOILS TEXTURAL PERCENTAGES OF SAND, SILT, AND CLAY FOR FOLLOWING CLASSIFICATIONS:

- SANDY LOAM WHERE SAND DOES NOT EXCEED 70% AND CLAY IS NOT LESS THAN 5%.

 SANDY CLAY LOAM WHERE SAND DOES NOT EXCEED 70% AND CLAY IS LESS THAN 28%.
 BIORETENTION SOILS: SOIL TO BE INSTALLED IN RETENTION BASINS, PONDS, OR OTHER STORMWATER MANAGEMENT ENVIRONS SHALL MEET THE ABOVE DESCRIBED CHARACTERISTICS AND AS FOLLOWS: - SOIL SHALL NOT CONTAIN MORE THAN 20% CLAY AND LESS THAN 40% SILT. - SOIL SHALL HAVE AN INFILTRATION RATE BETWEEN 1/2" AND 3" PER HOUR

H. MODIFICATION TO THE PLANTING SOIL CHARACTERISTICS DESCRIBED ABOVE MAY BE SUBMITTED FOR APPROVAL BY THE LANDSCAPE ARCHITECT. CONTRACTOR MUST DEMONSTRATE PROPOSED CHARACTERISTICS ARE EQUAL TO OR SUPERIOR TO THE SPECIFIED CHARACTERISTICS WITH RESPECT TO SUPPORTING PLANT GROWTH, AND STORMWATER MANAGEMENT.

12. PLANTING AMENDMENTS: APPLY FERTILIZER AND OTHER AMENDMENTS AS RECOMMENDED FOR EACH PLANTING AREA BY SOIL ANALYSIS. APPLY AMENDMENTS IN A MANNER CONSISTENT WITH MANUFACTURER'S RECOMMENDATIONS. ANY ORGANIC AMENDMENTS SHALL HAVE A pH BETWEEN 4.5 AND 5.5 UNLESS OTHERWISE RECOMMENDED.

13. PLANT REQUIREMENTS: ALL PLANTS SHALL CONFORM IN SIZE AND GRADE TO THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1 (LATEST EDITION). ALL PLANTS SHALL MEET THE ADDITIONAL REQUIREMENTS SET FORTH BELOW AND IN WRITTEN SPECIFICATIONS AS APPLICABLE. ALL TREES AND SHRUBS SHALL HAVE BEEN GROWN AT A COMMERCIAL NURSERY WITHIN 200 MILES OF THE PROJECT SITE UNLESS OTHERWISE APPROVED BY OWNER OR LANDSCAPE ARCHITECT. THEY SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY. THEY SHALL BE HEALTHY, SYMMETRICAL, EVENLY AND DENSELY BRANCHED, AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF BARK INJURY, DISEASE, AND INSECT PESTS. ALL TREES SHALL HAVE A STRAIGHT TRUNK WITH A SINGLE MAIN LEADER UNLESS OTHERWISE CHARACTERISTIC OF THE SPECIES OR VARIETY. THE OWNER OR LANDSCAPE ARCHITECT WILL ALLOW SUBSTITUTIONS ONLY UPON WRITTEN APPROVAL. SIZES SHALL CONFORM TO THE MEASUREMENT SPECIFIED ON THE DRAWINGS. PLANTS LARGER THAN SPECIFIED MAY BE USED IF APPROVED, BUT THE USE OF SUCH PLANTS SHALL NOT INCREASE THE CONTRACT PRICE. ALL OVERSTORY TREES PLANTED ALONG PARKING AREAS, SIDEWALKS AND PEDESTRIAN ACCESSES SHALL NOT BRANCH BELOW 7' FEET IF THE TREE CALIPER IS 3" INCHES OR GREATER. ALL PLANT MATERIALS ARE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE OWNER OR LANDSCAPE ARCHITECT AT THE NURSERY SOURCE. THE CONTRACTOR SHALL COORDINATE SOURCE VISITS WITH THE LANDSCAPE ARCHITECT AND SHALL ACCOMPANY THE OWNER AND/OR LANDSCAPE ARCHITECT FOR ALL INSPECTIONS. CERTIFICATES OF COMPLIANCE WITH SPECIFICATIONS ARE REQUIRED FOR ALL PLANTS.

ALL PLANT MATERIAL SHALL BE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE OWNER OR LANDSCAPE ARCHITECT AT THE NURSERY SOURCE OR PLACE OF GROWTH. THE CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPE ARCHITECT ON A SCHEDULE FOR SOURCE VISITS AND ACCOMPANY THE OWNER OR LANDSCAPE ARCHITECT FOR ALL SOURCE INSPECTIONS. CERTIFICATES OF COMPLIANCE ARE REQUIRED FOR ALL PLANT MATERIALS. PHOTOGRAPHIC REVIEW OF PLANT MATERIAL IS ACCEPTABLE IF APPROVED BY LANDSCAPE ARCHITECT. PHOTOGRAPHS MUST BE PROVIDED IN QUANTITY AND VARIETY TO ALLOW LANDSCAPE ARCHITECT SUFFICIENT INFORMATION TO MAKE A REASONABLE DETERMINATION AS TO THE PLANTS' QUALITY. OWNER AND LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT PLANT MATERIAL DELIVERED TO THE SITE BUT PREVIOUSLY ACCEPTED IF DAMAGED OR NOT PROPERLY MAINTAINED DURING THE

15. PLANTING SEASONS (UNLESS OTHERWISE APPROVED BY THE OWNER OR LANDSCAPE ARCHITECT)

APRIL 1 TO JUNE 15 SEPTEMBER 1 TO OCTOBER 15 DECIDUOUS TREES AND SHRUBS APRIL 1 TO JUNE 15 SEPTEMBER 15 TO NOVEMBER 15 GROUNDCOVERS SEPTEMBER 1 TO OCTOBER 15 APRIL 1 TO JUNE 15 PERENNIALS MAY 15 TO JUNE 15 SEPTEMBER 1 TO OCTOBER 15 PER MANUFACTURERS RECOMMENDATIONS OR AS LISTED IN SEED MIX NOTES SEED MIXES

16. SEEDING MIXTURES: REFER TO SEED MIX NOTES. SEEDED AREA SHALL BE ACCEPTED WHEN SEED AREA ACHIEVES 90%

17. ALL SLOPES STEEPER THAN 3:1 RECEIVING A SEED MIX SHALL BE COVERED WITH AN EROSION CONTROL BLANKET OF STRAW FIBER AND BIODEGRADABLE OR PHOTODEGRADABLE NETTING.

18. UNLESS OTHERWISE NOTED IN DRAWING SET, NEW TREELINES SHALL EQUAL CLEARING AND GRUBBING LIMIT FOR

19. ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED SHALL BE SEEDED WITH THE LAWN SEED MIX.

355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

VELOPMENT AVE (ROUTE 5) CONNECTICUT 0

L.M.W. L.M.W. W.E.V. Reviewed

1901997

Project No. LL190199701

LANDSCAPE NOTES AND

DETAILS

LIGHTING NOTES 1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH ALL REQUIREMENTS OF ANY LOCAL APPLICABLE CODES OR ORDINANCES, PUBLIC UTILITY COMPANY REGULATIONS, STATE CODE, AND NATIONAL ELECTRICAL CODE WITH INTERIM AMENDMENTS THERETO. 2. ALL MATERIALS SHALL CONFORM TO THE LATEST ISSUE OF ALL APPLICABLE STANDARDS AS ESTABLISHED BY EEI, NEMA, ASTM, IPCEA, NATIONAL BOARD OF FIRE UNDERWRITERS, AND UNDERWRITERS LABORATORIES, INC. 3. THE CONTRACTOR SHALL TEST THE LIGHTING AFTER INSTALLATION WITH THE DEVELOPER/OWNER, AND PROVIDE TO DEVELOPER/OWNER WARRANTY AND MAINTENANCE INFORMATION. THE CONTRACTOR SHALL MAKE ADJUSTMENTS AND/OR MODIFICATIONS AS REQUIRED BY THE DEVELOPER/OWNER TO OBTAIN EVEN LIGHT DISTRIBUTION. 4. CONTRACTOR SHALL LEAVE ENTIRE ELECTRICAL SYSTEM INSTALLED BY THE CONTRACTOR IN PROPER WORKING CONDITION AND REPLACE WITHOUT ADDITIONAL CHARGE ALL WORK OR MATERIALS WHICH MAY DEVELOP DEFECTS WITHIN A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER. 5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, BASES AND CONDUITS TO SITE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO DELIVERY OF MATERIAL TO SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW. IF ALTERNATIVE LIGHTING IS PROPOSED SUBMIT A PHOTOMETRIC FOOT-CANDLE LAYOUT ALONG WITH ANNUAL MAINTENANCE REQUIREMENTS AND ANTICIPATED COSTS. 6. LIGHTS ARE DESIGNED TO PROVIDE EVEN LEVELS OF ILLUMINATION AND AVOID GLARE ONTO NEIGHBORING PROPERTIES. FINAL DESIGN MAY VARY PENDING MANUFACTURER'S RECOMMENDATIONS. 7. ALL LIGHTING CONTROLS, PANELS, CIRCUIT BREAKERS ETC. ARE TO BE PROVIDED UNDER A SEPARATE CONTRACT BY BUILDING CONTRACTOR. CAREFUL COORDINATION IS REQUIRED BETWEEN SITE CONTRACTOR AND BUILDING CONTRACTOR TO PROVIDE A COMPLETE INSTALLATION FOR SITE LIGHTING. 8. THE CONTRACTOR WILL PROVIDE AND INSTALL ALL MATERIAL NECESSARY TO COMPLETE THE SITE LIGHTING SYSTEM INCLUDING BUT NOT LIMITED TO CONDUIT, BASES, ANCHOR BOLTS, POLES, SITE LIGHTS AND LAMPS. THE CONTRACTOR WILL COORDINATE WIRING AND POWERING OF LIGHTS WITH OWNER, ARCHITECT, AND BUILDING CONTRACTOR IF DIFFERENT FROM THE SITE CONTRACTOR. 9. ALL LIGHTS TO BE AS LISTED IN SCHEDULE OR APPROVED EQUIVALENT. LIGHTS SHALL BE MOUNTED ON SQUARE STRAIGHT STEEL POLES ATOP 3' HIGH CONCRETE BASES THAT ARE SET 3' (CLEAR) BEHIND CURBS UNLESS OTHERWISE INDICATED ON CONTRACT DRAWINGS. ILLUMINATION ANALYSIS MODELED USING LIGHTING FIXTURES LISTED IN SCHEDULE.

11. WIRE AND CABLE SHALL BE COPPER AND CONFORM TO THE FOLLOWING NEC TYPE THHN/THWN SOLID FOR NO. 12 AND NO. 10. NEC TYPE THHN/THWN STRANDED FOR NO.

8 AND LARGER. RIGID STEEL CONDUIT SHALL BE GALVANIZED. FITTINGS SHALL BE CAST FERROUS MATERIAL WITH A CADMIUM OR ZINC PLATED FINISH.

12. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE TO NEC.

LED LUMINAIRE ---

(SEE SITE LIGHTING PLAN AND

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	LLF	Wattage
	P1	8	Lithonia Lighting	DSX0 LED P2 40K T4M MVOLT HS	DSX0 LED P2 40K T4M MVOLT with houseside shield	LED	1	DSX0_LED_P2_4 0K_T4M_MVOLT _HS.ies	4563	0.9	49
	P2	2	Lithonia Lighting	DSX0 LED P4 40K T5M MVOLT	DSX0 LED P4 40K T5M MVOLT	LED	1	DSX0_LED_P4_4 0K_T5M_MVOLT. ies	10961	0.9	92
Ģ	P3	2	Lithonia Lighting	DSX0 LED P2 40K RCCO MVOLT	DSX0 LED P2 40K RCCO MVOLT	LED	1	DSX0_LED_P2_4 0K_RCCO_MVOL T.ies	3664	0.9	49
<u></u>	P4	1	Lithonia Lighting	DSX0 LED P2 40K LCCO MVOLT	DSX0 LED P2 40K LCCO MVOLT	LED	1	DSX0_LED_P2_4 0K_LCCO_MVOL T.ies	3664	0.9	49
Ŷ	P5	3	Lithonia Lighting	DSX0 LED P2 40K BLC MVOLT	DSX0 LED P2 40K BLC MVOLT	LED	1	DSX0_LED_P2_4 0K_BLC_MVOLT. ies	4925	0.9	49
- -	P6	TWI	N HEAD FIXTU	JRE - SEE P6A AND	P6B BELOW	•	•	•	1		
	P6A	1	Lithonia Lighting	DSX0 LED P7 40K T5M MVOLT	DSX0 LED P7 40K T5M MVOLT	LED	1	DSX0_LED_P7_4 0K_T5M_MVOLT. ies	19058	0.9	166
- · ·	P6B	1	Lithonia Lighting	DSX0 LED P7 40K T5M MVOLT	DSX0 LED P7 40K T5M MVOLT	LED	1	DSX0_LED_P7_4 0K_T5M_MVOLT. ies	19058	0.9	166
	W1	2	Lithonia Lighting	DSXW2 LED 20C 350 40K T4M MVOLT	DSXW2 LED WITH 2 LIGHT ENGINES, 20 LED's, 350mA DRIVER, 4000K LED, TYPE 4 MEDIUM OPTIC	LED	1	DSXW2_LED_20 C_350_40K_T4M _MVOLT.ies	2958	0.9	25
			Lithonia Lighting	DSXW2 LED 30C 1000	DSXW2 LED WITH 3 LIGHT ENGINES, 30 LED's, 1000mA DRIVER, 4000K LED, TYPE	LED	1	DSXW2_LED_30 C_1000_40K_T4	11129	0.9	109
	W2	5		40K T4M MVOLT	4 MEDIUM OPTIC			M_MVOLT.ies			

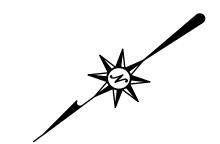
 Statistics

 Description
 Symbol
 Avg
 Max
 Min
 Max/Min
 Avg/Min

 Building & Parking
 □
 4.5 fc
 27.8 fc
 0.3 fc
 92.7:1
 15.0:1

 Site/Landscape
 X
 0.9 fc
 4.8 fc
 0.0 fc
 N/A
 N/A

 Spill
 X
 0.0 fc
 1.6 fc
 0.0 fc
 N/A
 N/A



#P21-10 & P21-18, SITE PLAN APPROVA

Archite Engine Enviror Land S

355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

SED DEVELOPMENT SHINGTON AVE (ROUTE 5) HAVEN, CONNECTICUT

0

LETIN #1 - SITE REVISIONS
LETIN #2 - 12' WIDE DRIVE THRU LANES
LETIN #3 - ADDRESS TOWN COMMENTS
LETIN #4 - ADDRESS TOWN COMMENTS
LETIN #4 - ADDRESS TOWN COMMENTS
LETIN #5 - REPRISIONS
LETIN #6 - REVISED TRASH ENCLOSURE DETAILS
LETIN #6 - REVANDS CHE AND VARIANCE NOTE
LETIN #9 - RESPONSE TO RIS
LETIN #9 - RESPONSE TO TENT COMMENTS
LETIN #10 - COA LETITE AND CHANGE OF USE
LETIN #10 - COA LETITE AND CHANGE OF USE
LETIN #11 - TENANT SITE IMPROVEMENTS
LETIN #11 - TENANT SITE IMPROVEMENTS
LETIN #13 - REVISED WATER LINE CONNECTIONS
LETIN #13 - REVISED WATER LINE
LETIN #15 - REVISIONS TO GRADING
LETIN #16 - REVISIONS TO GRADING
LETIN #18 - REVISIONS TO GRADING
LETIN #18 - REVISIONS REVISIONS
LETIN #18 - REVISIONS REVISIONS
LETIN #19 - STARBUCKS REVISIONS

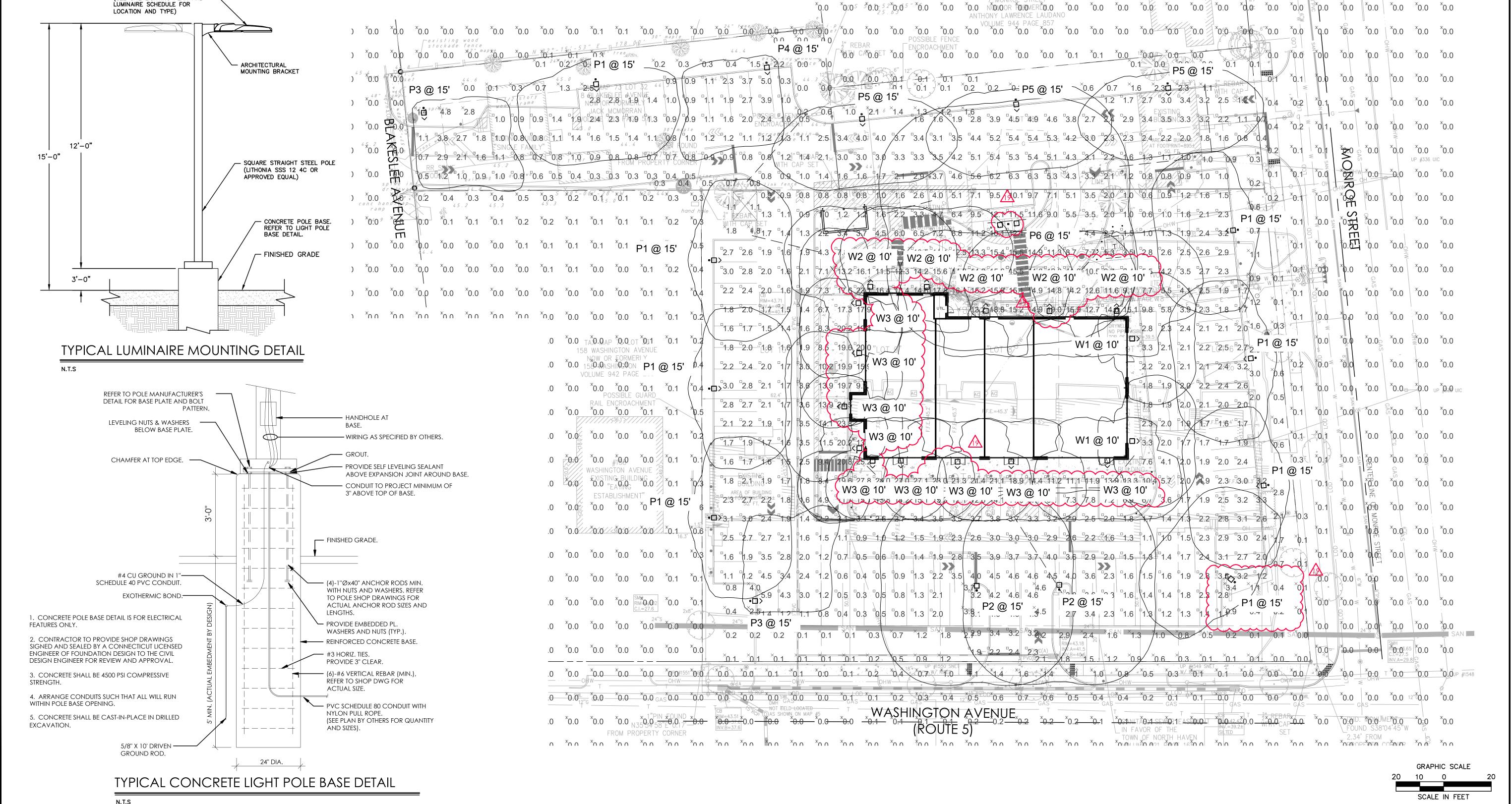
| 4728/2021 BULLI | 5/04/2021 BULLI | 5/04/2021 BULLI | 5/15/2021 BULLI | 6/08/2021 BULLI | 6/08/2021 BULLI | 6/08/2021 BULLI | 7/08/2021 BULLI | 8/22/2021 BULLI | 10/01/2021 BULLI | 1/07/2021 BULLI

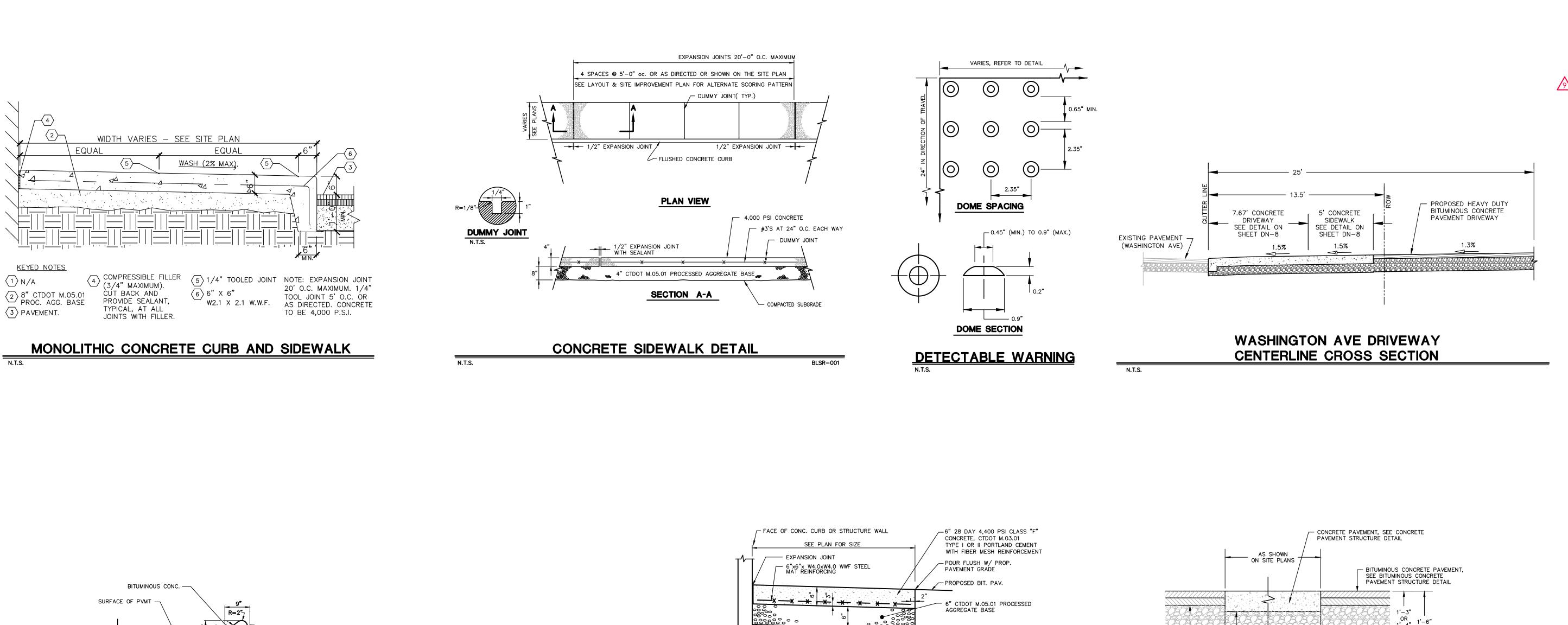
Designed J.S.D.
Drawn J.S.D.
Reviewed S.M.K.
Scale 1"=20'
Project No. 1901997
Date 07/07/2021
CAD File:

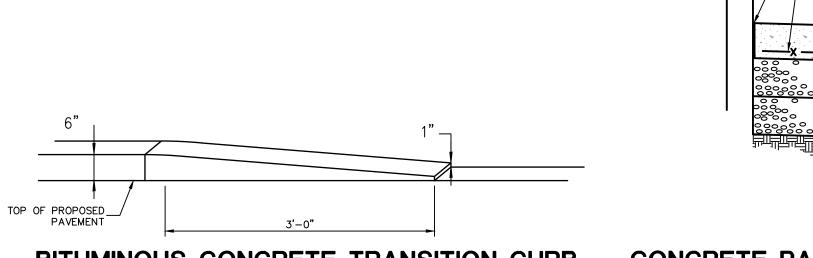
Title LIGHTING

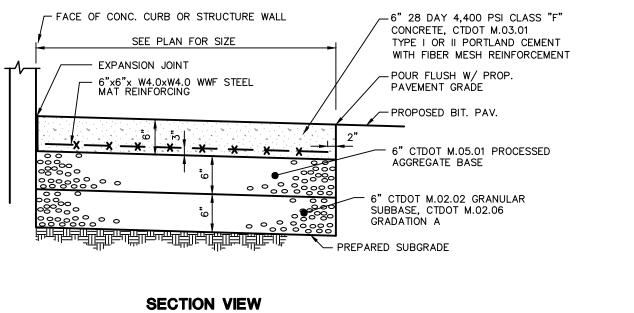
LIGHTING PLAN

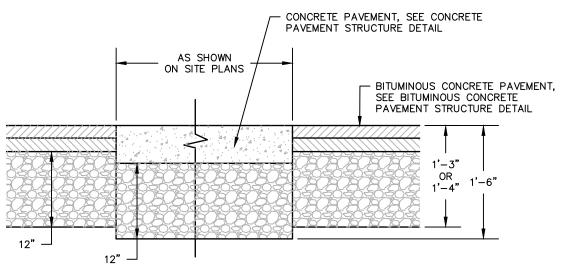
Sheet No.









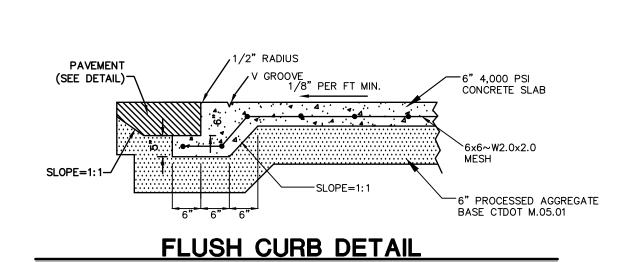


BITUMINOUS CONCRETE TRANSITION CURB **BITUMINOUS CONCRETE CURB**

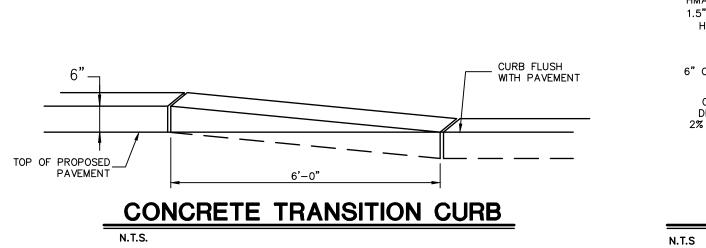
CONCRETE PAVEMENT STRUCTURE AND DUMPSTER PAD BLPC-002

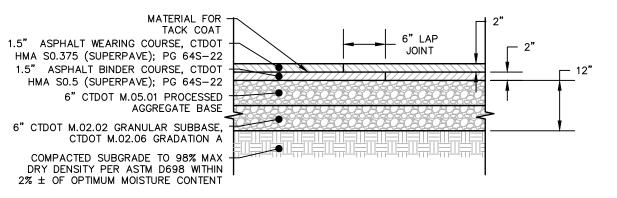
CONCRETE/BITUMINOUS PAVEMENT INTERFACE

N.T.S

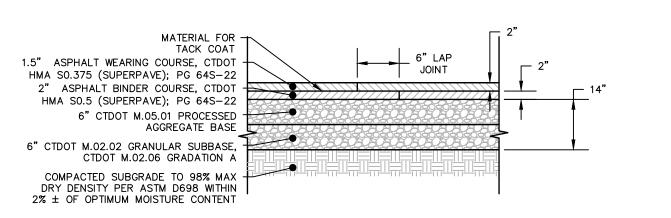


TACK COAT -









HEAVY DUTY BITUMINOUS CONCRETE PAVEMENT STRUCTURE

N.T.S

355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

OPOSED DEVELOPMENT4 WASHINGTON AVE (ROUTE 5)
4 ORTH HAVEN, CONNECTICUT

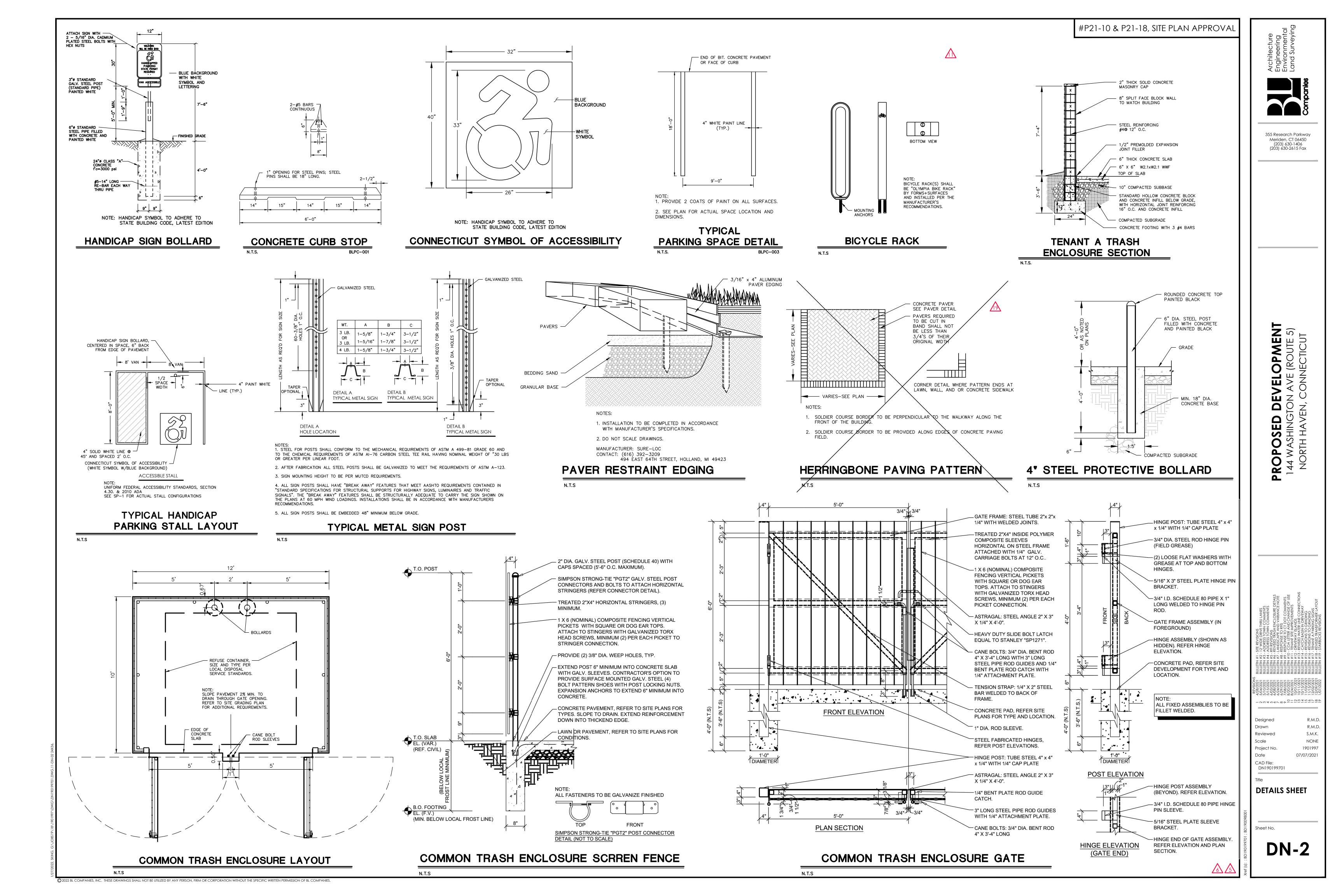
-2845978860-2845978

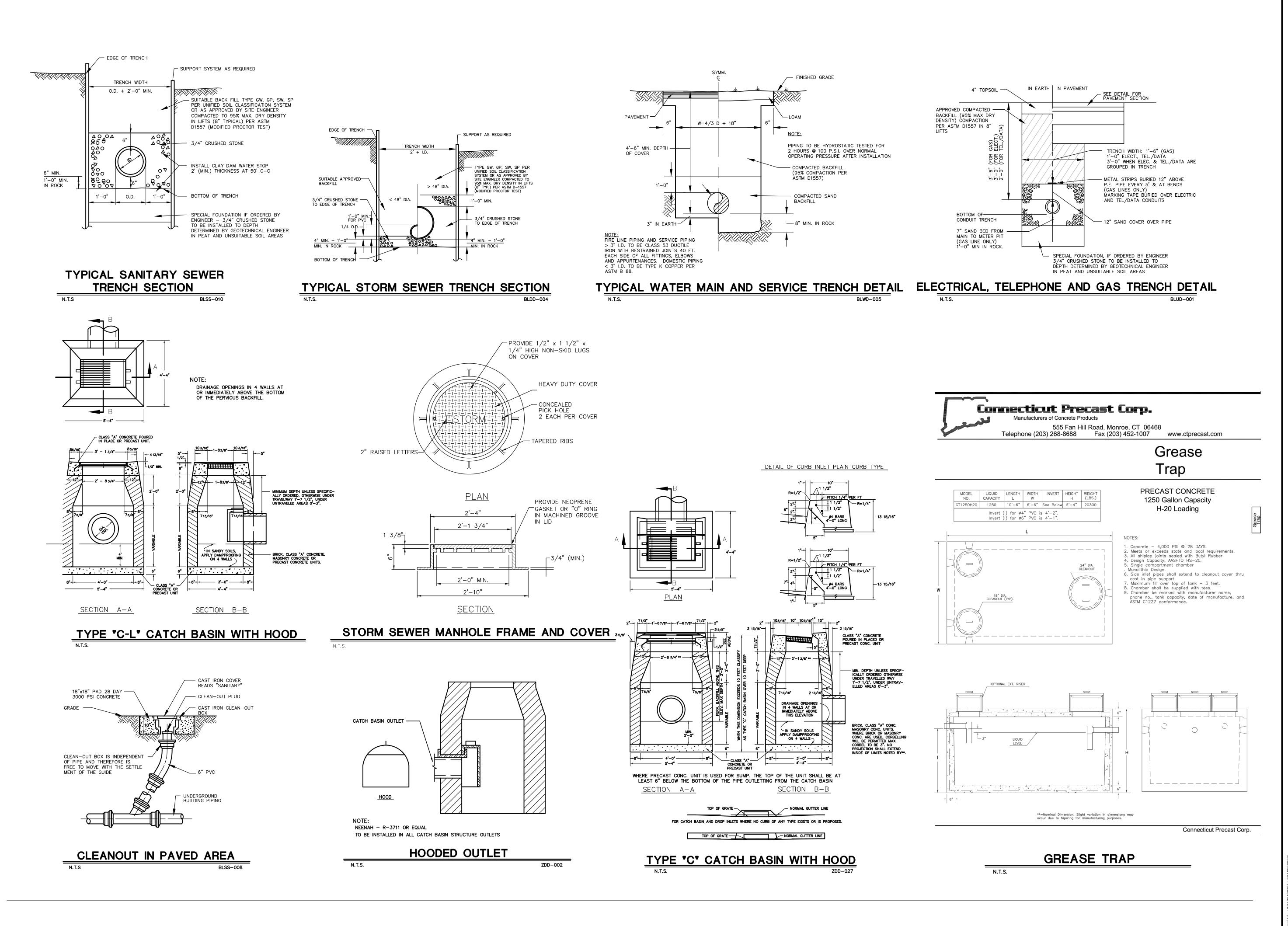
R.M.D. Designed

R.M.D. Drawn S.M.K. Reviewed NONE Scale 1901997 Project No. 07/07/2021 Date CAD File:

DN190199701

DETAILS SHEET





Architecture Engineering Environmental Land Surveying

355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

ROPOSED DEVELOPMENT
144 WASHINGTON AVE (ROUTE 5)
NORTH HAVEN, CONNECTICUT

ULETIN #1 - SITE REVISIONS
ULLETIN #2 - 12" WIDE DRIVE THRU LANES
ULLETIN #3 - ADDRESS TOWN COMMENTS
ULETIN #4 - ADDRESS TOWN COMMENTS
ULETIN #5 - REVISIONS COMMENTS
ULETIN #5 - REVISIONS TOWN COMMENTS
ULETIN #6 - REVISION END COMMENTS
ULETIN #7 - LANDSCAPE AND VARIANCE DETAILS
ULETIN #7 - LANDSCAPE AND VARIANCE DETAILS
ULETIN #10 - COA LETTER AND CHANGE OF USE
ULETIN #10 - COA LETTER AND CHANGE OF USE
ULETIN #11 - TENANT SITE IMPROVEMENTS
ULETIN #11 - DRIVEW AY SIGNANT END
ULETIN #13 - REVISIONS TO GRADING
ULETIN #14 - CATCH BASINI N DRIVEWAY
ULETIN #15 - REVISIONS TO GRADING
ULETIN #16 - REVISIONS TO GRADING
ULETIN #17 - TENANT A PARKING SIGNOUT

2 5/04/2021 BULL 3 5/10/2021 BULL 5 6/08/2021 BULL 6 6/08/2021 BULL 6 6/08/2021 BULL 7 6/29/2021 BULL 10 8/20/2021 BULL 11 10/01/2021 BULL 12 10/01/2021 BULL 13 10/11/2021 BULL 14 10/15/2021 BULL 15 11/03/2021 BULL 16 11/03/2021 BULL 17 10/15/2021 BULL 18 12/03/2021 BULL 19 11/03/2021 BULL 16 11/15/2021 BULL 16 11/15/2021 BULL 17 11/03/2021 BULL 18 12/03/2021 BULL 19 12/03/2021 BULL

 Designed
 R.M.D

 Drawn
 R.M.D

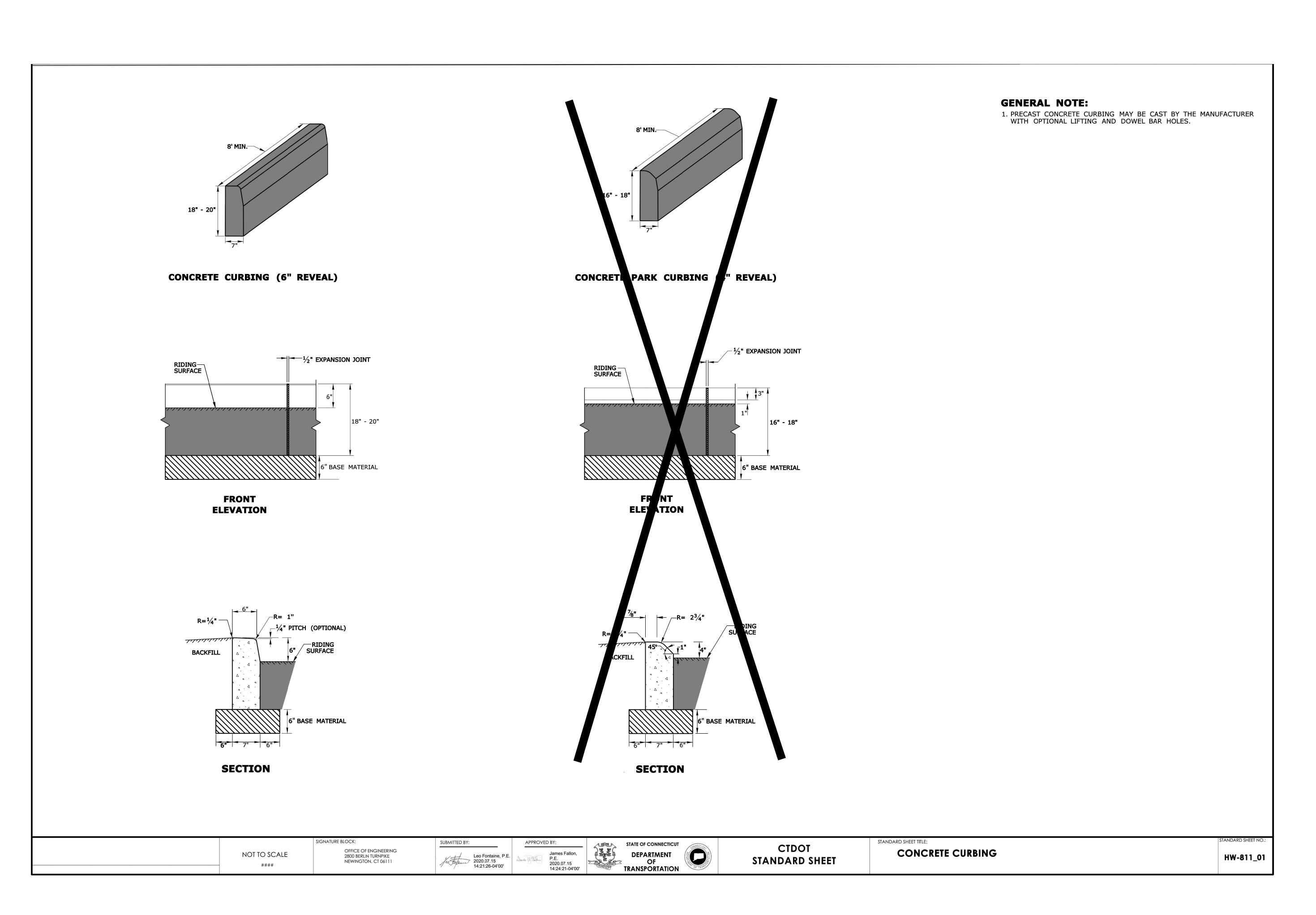
 Reviewed
 S.M.K.

 Scale
 NONE

Reviewed S.M.K.
Scale NONE
Project No. 1901997
Date 07/07/2021
CAD File:
DN190199701

DETAILS SHEET

Sheet No.



Architecture Engineering Environmental Land Surveying

Companies

355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

ASHINGTON AVE (ROUTE 5)
TH HAVEN, CONNECTICUT

BULLETIN #1 - SITE REVISIONS
BULLETIN #2 - 12' WIDE DRIVE THRU LANES
BULLETIN #3 - ADDRESS TOWN COMMENTS
BULLETIN #4 - ADDRESS TOWN COMMENTS
BULLETIN #4 - ADDRESS TOWN COMMENTS
BULLETIN #6 - REVISIONS
BULLETIN #6 - REVISIONS
BULLETIN #7 - LANDSCAPE AND VARIANCE NOTE
BULLETIN #8 - RESPONSE TO RFIS
BULLETIN #8 - RESPONSE TO RFIS
BULLETIN #10 - COA LETTER AND CHANGE OF USE
BULLETIN #10 - COA LETTER AND CHANGE OF USE
BULLETIN #11 - TENANT SITE IMPROVEMENTS
BULLETIN #11 - REVISIED WATER LINE CONNECTIONS
BULLETIN #13 - REVISION STO GRADING
BULLETIN #14 - CATCH BASIN IN DRIVEWAY
BULLETIN #14 - REVISIONS TO GRADING
BULLETIN #15 - REVISIONS TO GRADING
BULLETIN #17 - TENANT A PARKING SIGNS
BULLETIN #17 - TENANT A PARKING SIGNS
BULLETIN #18 - REVISIONS TO GRADING

2 5/10/2021 4 5/15/2021 5 6/08/2022 7 6/24/2021 9 7/08/2021 10 8/20/2021 11 8/20/2021 12 10/11/202 13 10/11/202 14 10/15/202 16 11/15/202 17 12/03/202 18 12/03/202 19 1/04/202

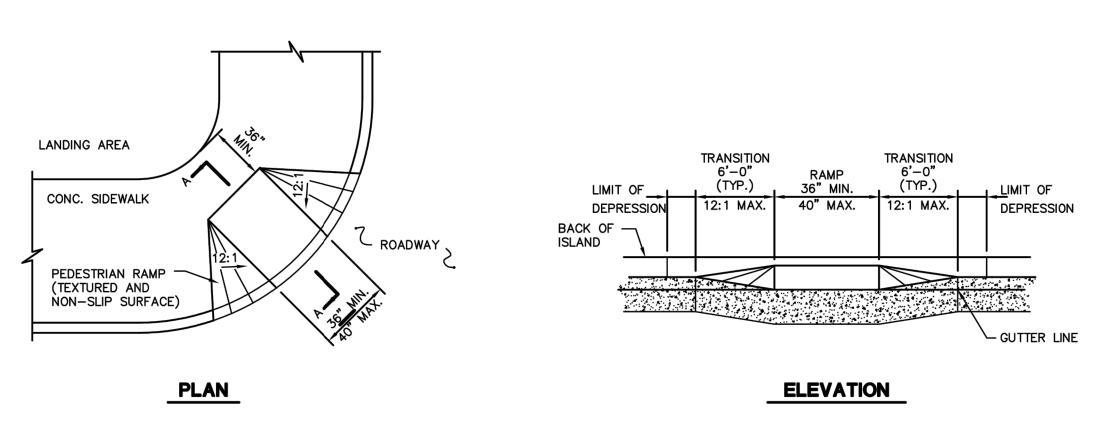
Designed R.M.D.
Drawn R.M.D.
Reviewed S.M.K.
Scale NONE
Project No. 1901997
Date 07/07/2021

Date
CAD File:
DN190199701

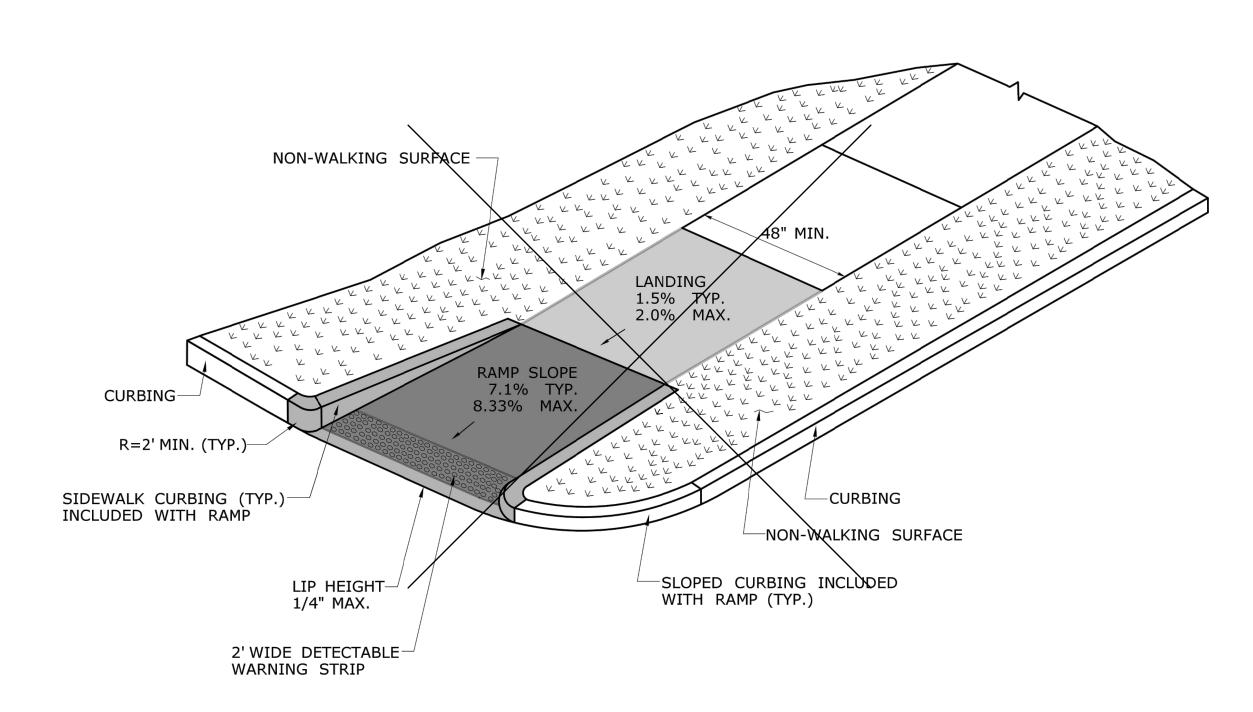
DETAILS SHEET
- CT DOT
STANDARDS

08,000 | Sheet N





PEDESTRIAN RAMP BLSR-003



SINGLE DIRECTION - RETURN CURB WITH NON-WALKING SURFACE (TYPE 16)

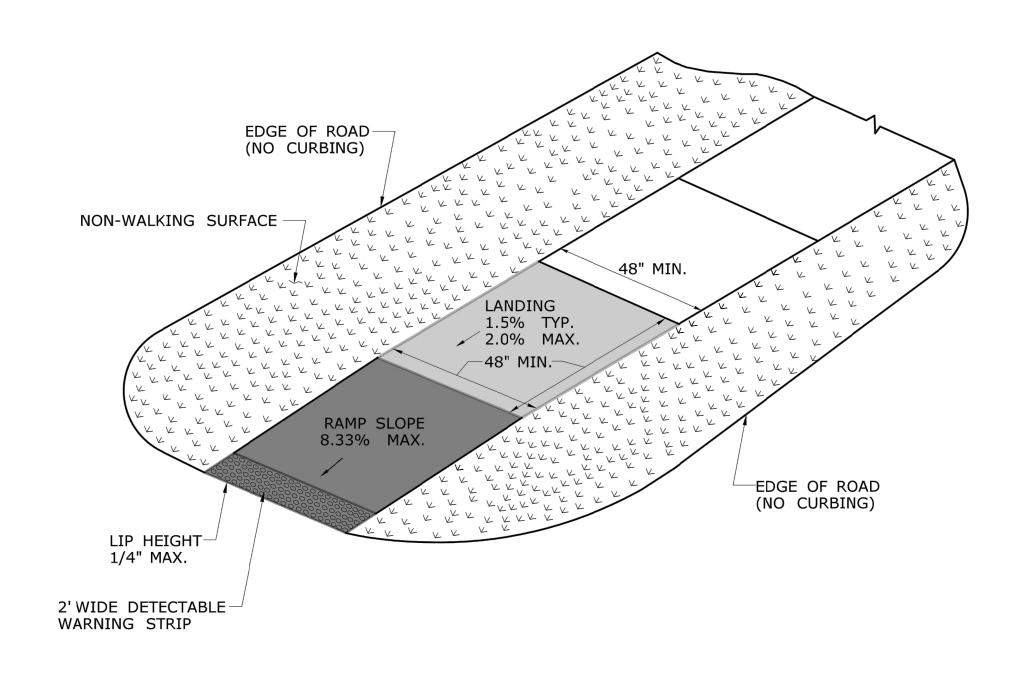
		THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: - CHECKED BY: -	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	S E
REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/23/2020		Filename:\CTDOT_HIGHWAY_GD [7-23-20].dgn	L

_	BLOCK:	
ATIO	OFFICE OF ENGINEERING	
	APPROVED BY:	

PROJECT TITLE:

GRADE BREAK GRADE BREAK IS 5'OR LESS FROM BACK OF CURB CURBING-SLOPED CURBING INCLUDED—WITH RAMP (TYP.) 1.5% TYP. 2.0% MAX. 2' WIDE DETECTABLE WARNING STRIP-LIP HEIGHT-1/4" MAX. —R=2' MIN. (TYP.)

SINGLE DIRECTION RAMP WITHOUT NON-WALKING SURFACE **GRADE BREAK 5' OR LESS** (TYPE 15)



SINGLE DIRECTION - NO CURB WITH NON-WALKING SURFACE (TYPE 17)

DESIGN	INITIATED	CHANGE	ORDER	NO. Y	- mm/dd/y

<u>-</u>		DRAWING NO.	-
	DRAWING TITLE:		
-	CONCRETE SIDEWALK RAMPS SHEET 6	SHEET NO.	•

355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

PROPOSED DEVELOPMENT 144 WASHINGTON AVE (ROUTE 5) NORTH HAVEN, CONNECTICUT

- 0.0449478789-

NONE

R.M.D. Designed

R.M.D. Drawn S.M.K. Reviewed Scale 1901997 Project No. 07/07/2021 Date

CAD File: DN190199701

DETAILS SHEET - CT DOT STANDARDS

OPOSED DEVELOPMENT4 WASHINGTON AVE (ROUTE 5)
4 ORTH HAVEN, CONNECTICUT

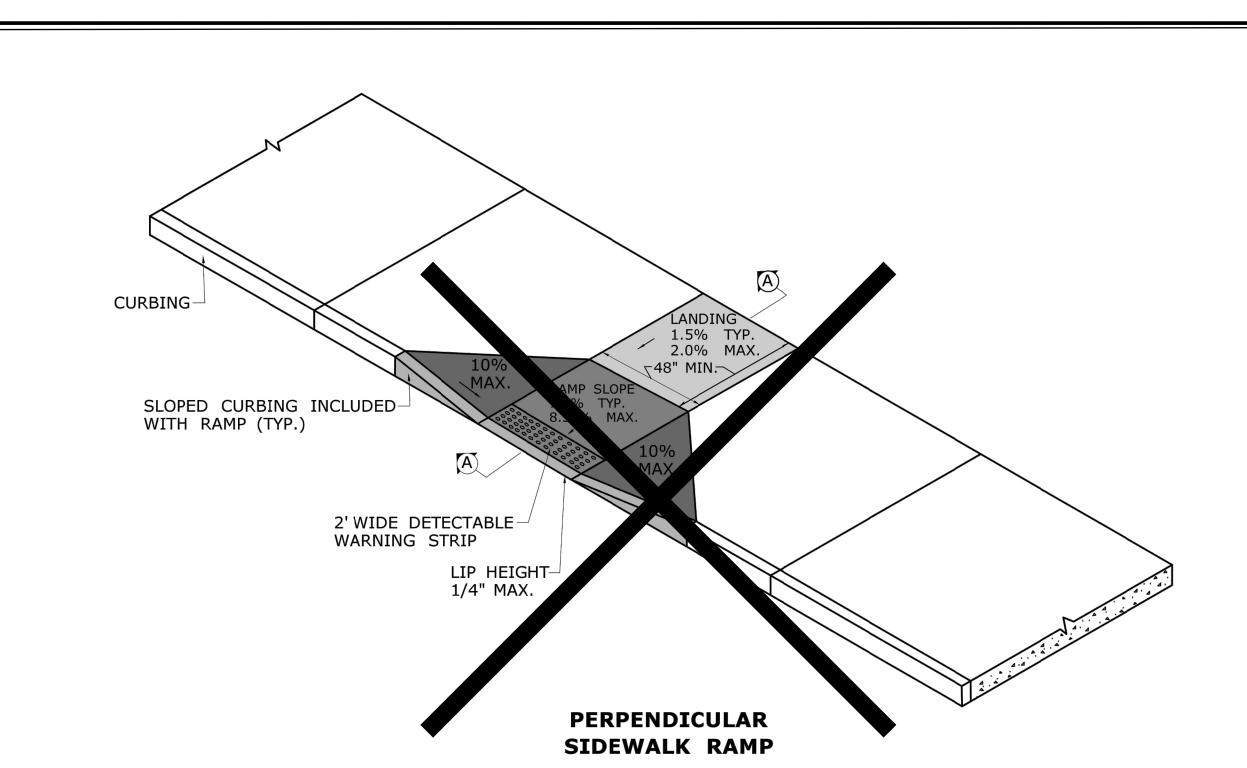
- 284597886- 0 - 1 - 28459188 R.M.D. Designed R.M.D.

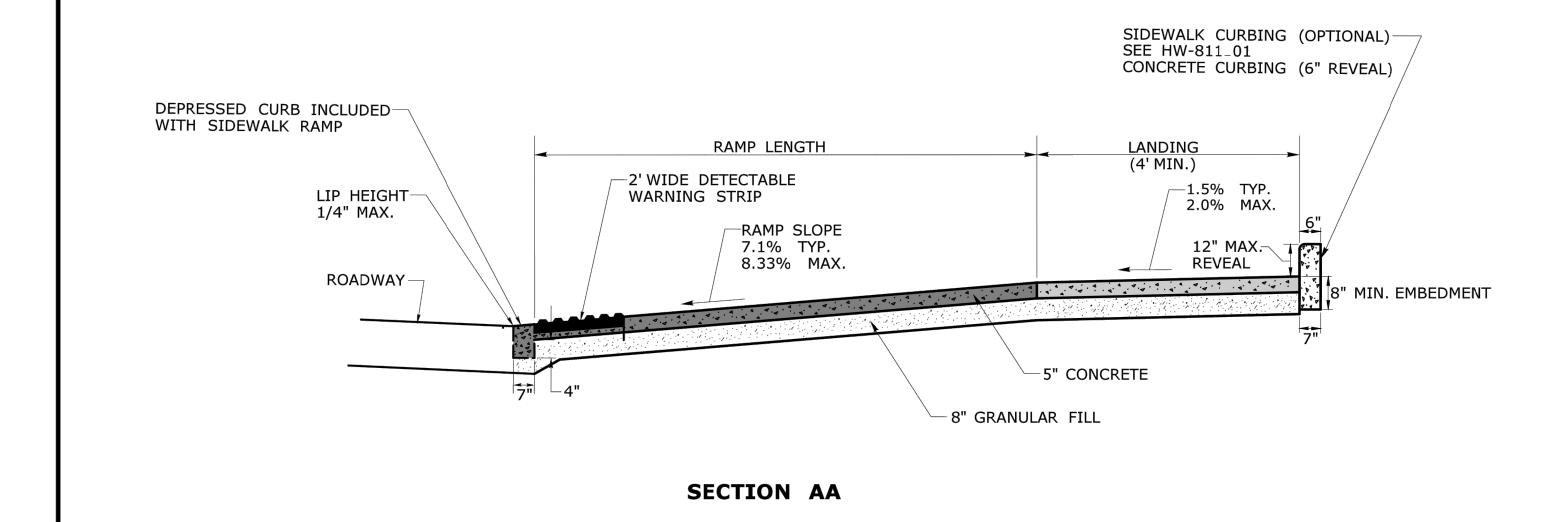
Drawn S.M.K. Reviewed Scale NONE Project No. 1901997 Date 07/07/2021

CAD File: DN190199701

DETAILS SHEET - CT DOT STANDARDS

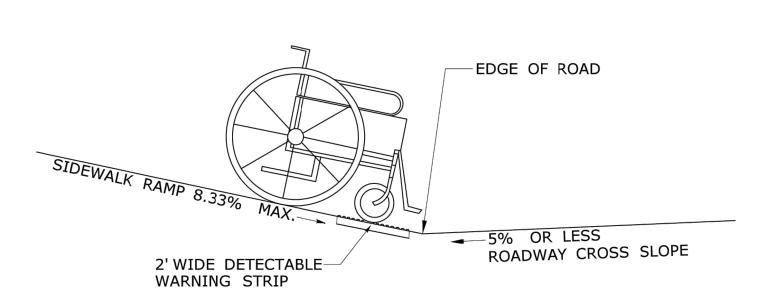
DN-6



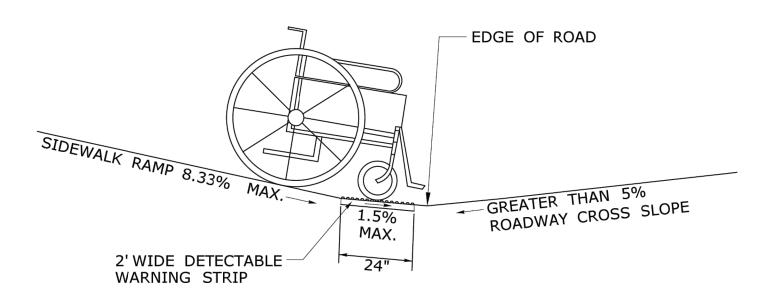


GENERAL NOTES:

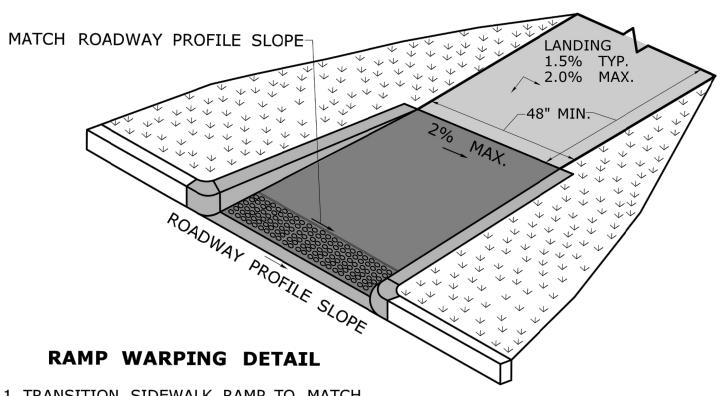
- 1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP. 2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED $\frac{1}{4}$ INCH.
- 3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT. 4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.



SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF 5% OR LESS



SIDEWALK RAMP GRADE AT **ROADWAY CROSS SLOPE OF GREATER THAN 5%**



- 1. TRANSITION SIDEWALK RAMP TO MATCH ROADWAY PROFILE AS GRADUALLY AS POSSIBLE. DO NOT EXCEED 3 % PER FOOT CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE.
- COMPLETE TRANSITION TO ROADWAY PROFILE BEHIND DETECTABLE WARNING SURFACE.

DESIGN	INITIATED	CHANGE	ORDER	NO. Y	- mm/dd/yy

1.	6/19 REVISED MAX LANDING SLOPE TO 2%		DESIGNER/DRAFTER:		SIGNATURE/ BLOCK:	PROJECT TITLE:	TOWN:	PROJECT NO.
	AND DRAWING TITLE		THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE CHECKED BY:		OFFICE OF ENGINEERING	_	_	-
			INVESTIGATIONS BY THE STATE AND IS	STATE OF CONNECTICUT	OFFICE OF ENGINEERING	<u>_</u>		DRAWING NO.
			IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DEPARTMENT OF TRANSPORTATION	APPROVED BY:	<u>-</u>	DRAWING TITLE:	
			OF WORK WHICH WILL BE REQUIRED.			_	CONCRETE SIDEWALK	SHEET NO.
REV.	DATE REVISION DESCRIPTION	SHEET NO.	Plotted Date: 6/11/2019	Filename:\CTDOT_HIGHWAY_GD [5-30-19].dgn			RAMPS SHEET 1	





PROPOSED DEVELOPMENT 144 WASHINGTON AVE (ROUTE 5) NORTH HAVEN, CONNECTICUT

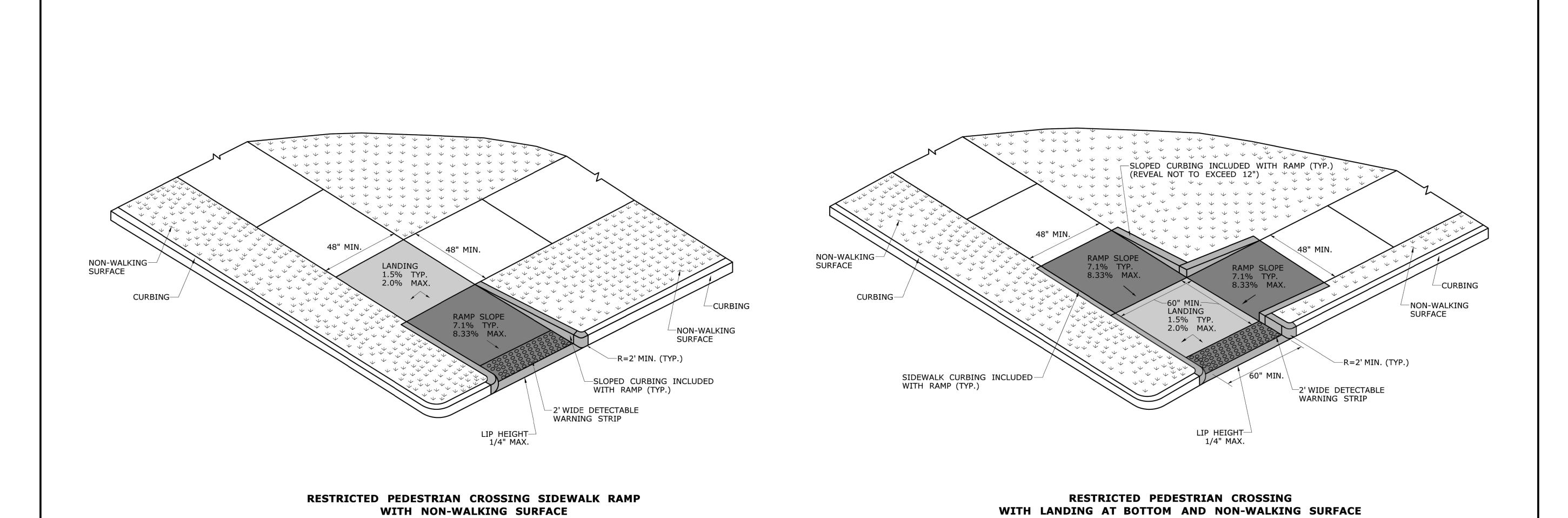
R.M.D. Designed

Drawn S.M.K. Reviewed Scale NONE 1901997 Project No. Date 07/07/2021

CAD File: DN190199701

DETAILS SHEET - CT DOT STANDARDS

DN-6A



(TYPE 20)

(TYPE 21)

			DESIGNER/DRAFTER:	SIGNATURE/ BLOCK:		PROJECT TITLE:	TOWN:	PROJECT NO.
			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED CHECKED BY:	STATE OF CONNECTICUT OFFICE OF	F ENGINEERING	_	<u>-</u>	DRAWING NO.
			INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DEPARTMENT OF TRANSPORTATION APPROVED BY:		-	DRAWING TITLE:	\dashv
			OF WORK WHICH WILL BE REQUIRED.	DEPARTMENT OF TRANSPORTATION		-	CONCRETE SIDWALK	SHEET NO.
REV.	DATE REVISION DESCRIPTION SH	HEET NO.	Plotted Date: 1/30/2019	Filename:\CTDOT_HIGHWAY_GD_[1-28-19].dgn			RAMPS SHEET 8	

Architecture Engineering Environmental Land Surveying

355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

> OSED DEVELOPMENT ASHINGTON AVE (ROUTE 5) TH HAVEN, CONNECTICUT

0

BULLETIN # 1 - SITE REVISIONS
BULLETIN #2 - 12 WIDE DRIVETHRU LANES
BULLETIN #3 - ADDRESS TOWN COMMENTS
BULLETIN #4 - ADDRESS TOWN COMMENTS
BULLETIN #4 - ADDRESS TOWN COMMENTS
BULLETIN #6 - REFERENCE OF SERVICE DETAILS
BULLETIN #6 - REFERENCE OF SERVICE OF SERVICE

2. 5/04/2021 3. 5/10/2021 5. 6/03/2021 6. 6/03/2021 6. 6/03/2021 8. 6/29/2021 10. 8/20/2021 11. 8/20/2021 11. 10/01/2021 12. 10/01/2021 13. 10/11/2021 14. 10/15/2021 15. 11/03/2021 16. 11/15/2021 17. 12/02/2021

Designed R.M.D.

Drawn R.M.D.

 Reviewed
 S.M.K.

 Scale
 NONE

 Project No.
 1901997

 Date
 07/07/2021

 CAD File: DN190199701

DETAILS SHEET
- CT DOT

STANDARDS

Sheet No.

> SED DEVELOPMENT SHINGTON AVE (ROUTE 5) HAVEN, CONNECTICUT OPO 14 WASI JORTH

R.M.D. Designed

R.M.D.

S.M.K. Reviewed Scale NONE 1901997 Project No. 07/07/2021 Date CAD File: DN190199701

DETAILS SHEET - CT DOT

STANDARDS

Drawn

 $-2^{3}/_{4}$ " (69) (TYP)

 $--\frac{3}{8}$ " (9) (TYP)

 $\frac{1}{2}$ " (13) (TYP)

CT DOT

COMMUNICATION CONDUIT

BURIED BELOW

CALL BEFORE

YOU DIG

1 - 800 922 - 4455

SIGN FACE DETAIL

SIGN # 41-4669

OPO 14 WASI VORTH

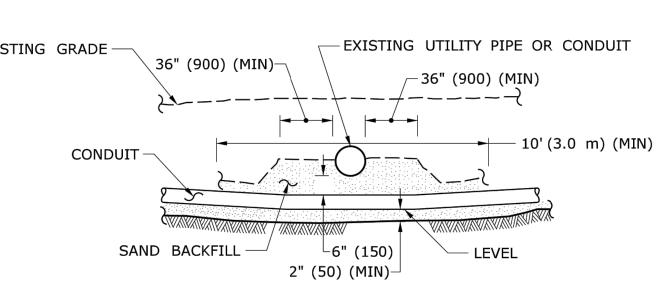
R.M.D. Designed R.M.D. Drawn S.M.K. Reviewed

NONE Scale 1901997 Project No. 07/07/2021 Date CAD File: DN190199701

DETAILS SHEET - CT DOT

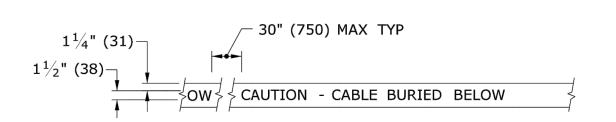
STANDARDS

DN-9



CROSSING UNDER EXISTING UTILITY

- 1. WHEN ENCOUNTERED AT APPROXIMATELY THE SAME DEPTH, CROSS BENEATH.
- 2. PROTECT & SUPPORT EXPOSED EXISTING UTILITY.



DETECTABLE WARNING TAPE

SIDEWALK

12" (300)

///\/\/\\

4" (100) MIN-

SIDEWALK

Model: TR-1001_01

STANDARD SPECIFICATIONS, ARTICLE: 9.21 & 9.22

STANDARD SPECIFICATIONS, ARTICLE: 1.05.15

└8" (200) MIN

1. TAPE COLORS: COMMUNICATION - ORANGE BACKGROUND / BLACK LEGEND POWER - RED BACKGROUND / BLACK LEGEND

11/8/1/8 1/8/1/8

INTERCONNECT CONDUIT

IDENTIFICATION POST

GENERAL NOTES:

BEVELED END -

SEE NOTE 6-

GROUND LINE

1. 4" x 4" (100 x 100) NOMINAL, PRESSURE TREATED WOOD POST.

SIGN FACE ON ALL FOUR SIDES

- 2. ATTACH SIGN TO POST WITH $\frac{1}{4}$ " x $1\frac{1}{4}$ " (6 x 31) STAINLESS STEEL LAG SCREW WITH NYLON WASHER ON FACE OF SIGN.
- 3. SIGN COLORS: BACKGROUND ORANGE (RETROREFLECTIVE) LEGEND - BLACK (OPAQUE).
- 4. INSTALL POST APPROX 24" (600) FROM RMC IN VICINITY OF EACH PULL BOX.

1. TOP OF CONDUIT NO LESS THAN 24" (600) DEEP.

2. COMPACT BACKFILL IN ≤6" (150) LIFTS.

HAND COMPACTION NOT PERMITTED.

- 5. INSTALL POSTS BETWEEN PULL BOXES, APPROX 10' (3.0 m) OFF CURB. SPACE POSTS 1500'± (460 m±) APART.
- 6. PERMANENTLY ATTACH STAINLESS STEEL NUMBERS INDICATING DISTANCE TO TRENCH IN FEET (METERS) CONTAINING COMMUNICATION CABLE. ATTACH NUMBERS TO SIDE OF POST FACING CONDUIT. INCLUDE "M" SUFFIX IF METERS.

-6" TO 12" (150 TO 300) SAW CUT EDGE, TACK COAT, AND -SEAL JOINT AFTER PAVING. (TYP) 24" (600) EXISTING BITUMINOUS CONCRETE OVERLAY **EXISTING BITUMINOUS -**CONCRETE OVERLAY EXISTING BITUMINOUS OR PCC PAVEMENT SAW CUT EDGE SAW CUT EDGE 2" (50) SURFACE LIFT OF HMA S0.375, ON LIFT(S) OF HMA S0.375 WITH EACH LIFT MAX OF 4" (100) THICK. 12" (300) MIN. PROCESSED AGGREGATE BASE -8" (200) MIN. DETECTABLE WARNING TAPE-BEDDING MATERIAL OR SAND--4" (100) MIN. CONDUIT -

PAVEMENT - BITUMINOUS CONCRETE OR OVERLAYED PORTLAND CEMENT CONCRETE

- 22.5° - 48" (1200) RADIUS

22.5° - 48" (1200) RADIUS

INTERCONNECT TYPICAL CURB CROSSING

1. RESTORE AREAS DISTURBED BY TRENCH TO ORIGINAL CONDITION.

2. INSTALL PULL BOX A MINIMUM OF 10' (3.0 m) FROM CURB UNLESS

OTHERWISE SHOWN ON PLANS OR DIRECTED BY ENGINEER.

BITUMINOUS SHOULDER

NOTE 2

PULL BOX

- STANDARD SPECIFICATIONS, ARTICLE: 3.04 & 4.06.03
- 1. TOTAL HOT MIX ASPHALT (HMA) THICKNESS TO MATCH EXISTING BITUMINOUS CONCRETE AND PORTLAND CEMENT CONCRETE (PCC) THICKNESS.
- 2. WHEN ALLOWED BY ENGINEER, USE CONTROLLED LOW STRENGTH MATERIAL (CLSM) AS BEDDING MATERIAL. TOP OF CLSM AT LEAST 20" (500) BELOW SURFACE.

1. WHERE CONCRETE SIDEWALK DAMAGED OR CUT, REPLACE THE ENTIRE SECTION BETWEEN JOINTS. REPLACEMENT SIDEWALK IS PAID FOR AT THE CONTRACT UNIT PRICE FOR "CONCRETE SIDEWALK".

SUITABLE BACKFILL

CONDUIT

DETECTABLE WARNING TAPE

STANDARD SPECIFICATIONS, ARTICLE: 9.50

(300)

//>//>//

4" (100) MIN

EARTH

REFER TO NOTE 1

4" (100) MIN-

///\\/\\\/\\\/

1. IN MOWED AREAS: PLACE TOPSOIL, FERTILIZER, SEED, & MULCH.

└8" (200) MIN

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN: -- RMC (RIGID METAL CONDUIT)

CONDUIT

CURB or EDGE OF ROAD

NOTES:

UNPAVED EARTH

3.2' (1.0 m) MIN

IMENSIONS ARE IN ENGLISH ('." THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - UNDER 1" TO NEAREST 1 mm. NOT TO SCALE Filename: CTDOT_TRAFFIC_STD.dgn

STATE OF CONNECTICUT **DEPARTMENT OF TRANSPORTATION**

NAME/DATE/TIME: Timothy M. Wilson 2012.05.09 10:23:34-04'00'

STANDARD SHEET OFFICE OF ENGINEERING TRENCHING & BACKFILLING, **ELECTRICAL CONDUIT**

1 4-2012 REVISED BITUMINOUS CONRCETE TO HMA, & MINOR REVISIONS REVISION DESCRIPTION Plotted Date: 4/14/2012

SUITABLE BACKFILL-

DETECTABLE -

SAND -

CONDUIT

WARNING TAPE

NAME/DATE/TIME: Tracy L. Fogarty 2012.05.01 12:54:42-04'00'

CTDOT

TR-1001 0

TYPICAL PLACEMENT OF OVERHEAD SIGNS ON SIGN SUPPORTS

NOTE

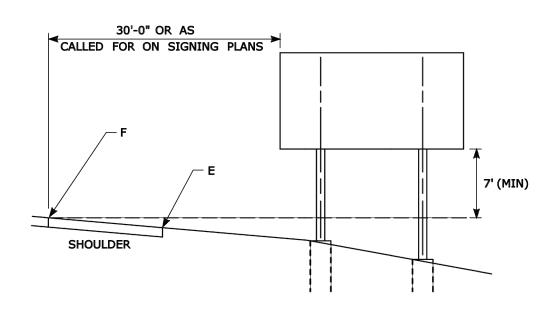
1) FOR PLACEMENT OF CANTILEVER SIGN SUPPORT USE APPLICABLE PORTION OF ABOVE DETAIL.

2) BARRIER SYSTEMS MAY BE REQUIRED FOR BOTH SIDES OF SUPPORTS IN MEDIANS.

3) IMPACT PROTECTION SHALL BE PROVIDED FOR THE SIGN SUPPORTS LOCATED WITHIN CLEAR ZONE.

4) SIGN SUPPORT FOUNDATIONS SHALL BE LOCATED OUTSIDE OF BARRIER SYSTEMS DEFLECTION AREA.

5) ALL SIGNS ARE TO BE LEVEL, REGARDLESS OF CAMBER IN SUPPORT.



TYPICAL PLACEMENT OF SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

NOTES:

1) MIN. VERTICAL CLEARANCE ABOVE SIDEWALKS SHALL BE 7'.

2) WHERE GUIDE RAIL IS USED, THE OFFSET TO THE NEAR EDGE OF SIGN FACE SHALL BE AS SHOWN ELSEWHERE IN THE CONTRACT PLANS.

3) ON INTERSECTING ROADS AT RAMP TERMINI, THE OFFSET TO THE NEAR

EDGE OF OF SIGN FACE SHALL BE 6'MIN. FROM POINT "E".

4) IF 30'-0" MIN. CANNOT BE MET, PLEASE CONTACT THE ENGINEER.

FOR MAXIMUM EFFECTIVENESS, POSITION SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS AS FOLLOWS:

ON A TANGENT SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH THE TRAFFIC LANE WHICH THE SIGN SERVES. SIGNS LOCATED 30 FT OR MORE FROM THE EDGE OF THE ROAD SHALL BE TURNED APPROXIMATELY 3° TOWARD THE ROAD.

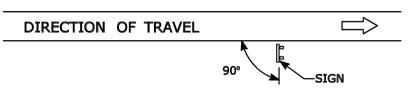
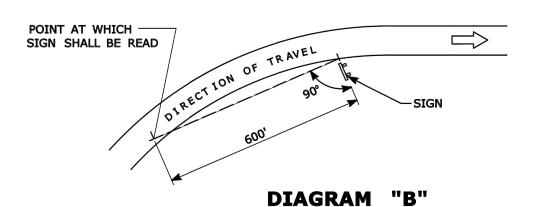


DIAGRAM "A"

ON A HORIZONTAL CURVE SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH A STRAIGHT LINE BETWEEN THE SIGN AND THE POINT AT WHICH THE SIGN SHALL BE READ.



SIGN ORIENTATION DETAILS FOR SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

48" LONG OR LESS:

OVER 48" LONG:

A/2

A/2

A/2

A/2

RETROREFLECTIVE STRIPS

RETROREFLECTIVE STRIP DETAIL

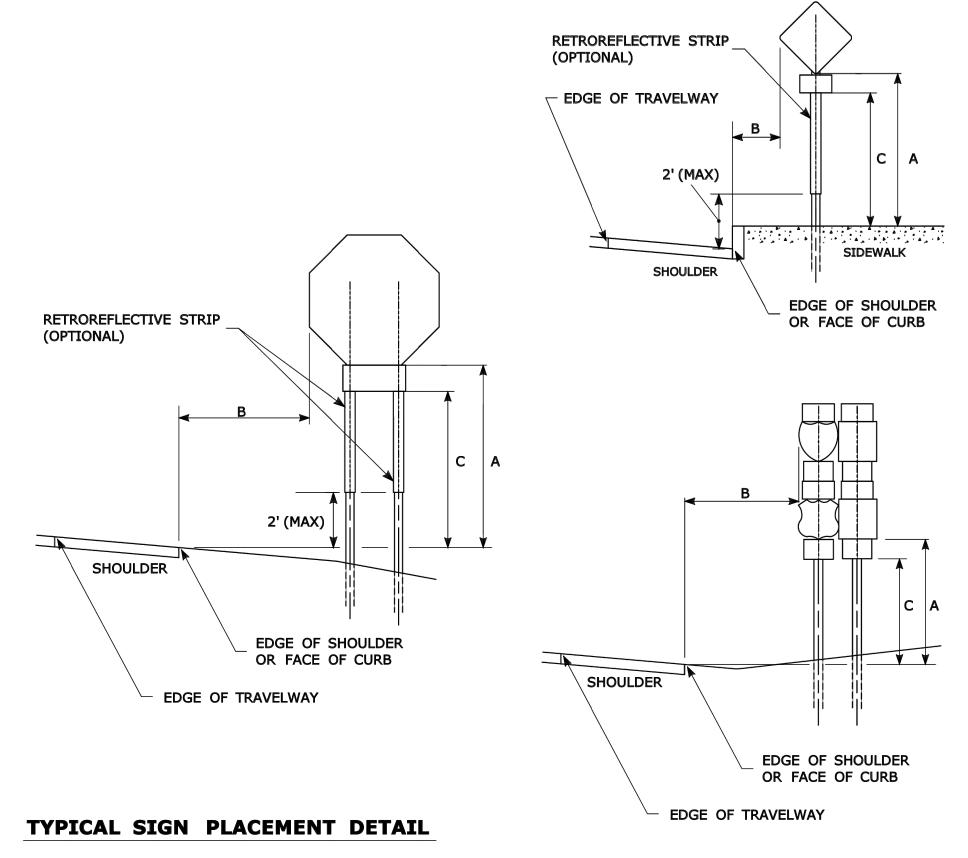
OTES:

RETROREFLECTIVE STRIPS

RETROREFLECTIVE STRIPS WHICH ARE 48 IN LONG OR LESS SHALL
BE ATTACHED USING 2 BOLTS AND RETROREFLECTIVE STRIPS OVER
48 IN LONG SHALL BE ATTACHED USING 3 BOLTS AS SHOWN ON
THE DETAILS ABOVE.
REFER TO STANDARD SHEET No. TR-1208_02 "METAL SIGN POSTS
AND SIGN MOUNTING DETAILS" FOR MOUNTING DETAILS.
RETROREFLECTIVE STRIP COLOR SHALL MATCH THE BACKGROUND COLOR

OF THE SIGN, EXCEPT THAT THE COLOR OF THE STRIP FOR "YIELD" AND

"DO NOT ENTER" SIGNS SHALL BE RED.



NOTES:

ALL SIGNS AND SHIELDS ON DIRECTIONAL ASSEMBLIES SHALL ABUT VERTICALLY.

REFER TO STANDARD SHEET No. TR-1208 $_{-}$ 02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR SIGN POSTS AND SIGN MOUNTING.

IF A RETFOREFLECTIVE STRIP IS USED ON SIGN SUPPORT, IT SHALL BE PLACED FOR THE FULL LENGTH OF THE SUPPORT FROM THE BOTTOM OF THE SIGN TO WITHIN 2 FT ABOVE THE EDGE OF THE ROADWAY.

PARKING SIGNS TYPICALLY USE 45° MOUNTING BRACKET.

DIM."A" MIN SIGN HEIGHT	DIM."B" MIN LATERAL OFFSET (1)	DIM."C" MIN PLAQUE HEIGHT (1)	ASSEMBLY LOCATION
7' (2)	6' 12' ③	5'	SIGNS ON FREEWAYS AND EXPRESSWAYS EXCEPT CHEVRON ALIGNMENT SIGNS, ONE-DIRECTION LARGE ARROW SIGNS, DO NOT ENTER SIGNS, AND WRONG WAY SIGNS
5'	2'	4'	SIGNS IN RURAL AREAS DO NOT ENTER AND WRONG WAY SIGNS ALONG EXIT RAMPS DO NOT ENTER AND WRONG WAY SIGNS ON LIMITED ACCESS HIGHWAYS
5'	2'	N/A	CHEVRON ALIGNMENT SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMPS, AND IN RURAL AREAS ONE-DIRECTION LARGE ARROW SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMPS, AND IN RURAL AREAS
4'	6' 12' ③	N/A	INCIDENT MANAGEMENT SIGNS AND MILE POST MARKER ASSEMBLIES LOCATED ON FREEWAYS AND EXPRESSWAYS
4"	2'	4'	CENTRAL ISLANDS OF ROUNDABOUTS
7'	2' 4	6'	BUSINESS & RESIDENTIAL AREAS WHERE PARKING OR OTHER OBSTRUCTIONS LIMIT VISIBILITY
7'	2' 4	7'	SIDEWALKS (5)

$\ensuremath{\boxed{1}}\xspace$ or as directed by the engineer

2 8 FT MINIMUM HEIGHT REQUIRED IF A SUPPLEMENTAL PLAQUE IS SUBMOUNTED BELOW THE MAJOR SIGN.

6 FT FROM EDGE OF SHOULDER, WHEN SHOULDER IS OVER 6 FT WIDE 12 FT FROM EDGE OF TRAVELWAY, WHEN SHOULDER IS LESS THAN 6 FT WIDE.

A LATERAL OFFSET OF AT LEAST 1 FT FROM THE FACE OF THE CURB MAY BE USED WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING UTILITY POLES ARE CLOSE TO THE CURB.

(5) A CLEAR PATH OF NOT LESS THAN 4 FT SHALL BE PROVIDED IN SIDEWALK AREAS.

		CONNECTICAL	SUBMITTED BY: NAME/DATE/TIME:		STANDARD SHEET TITLE:	STANDARD SHEET NO.:
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE		STATE OF CONNECTICUT	May Mark F. Makuch, P.E. 2018.08.17 09:06:06-04'00'	CTDOT STANDARD SHEET	SIGN PLACEMENT AND	TR-1208_01
3 8-2018 INCLUDED INCIDENT MANAGEMENT AND MILE MARKER SIGNS. THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DEPARTMENT OF TRANSPORTATION	APPROVED BY: NAME/DATE/TIME:	- 	RETROREFLECTIVE STRIP DETAILS	
1 2-2011 MINOR REVISIONS.	NOT TO SCALE		Mark F. Carlino, P.E. 2018.08.21 07:48:06-04	OFFICE OF ENGINEERING		
REV. DATE REVISION DESCRIPTION Plotted Date: 8/10/2018		Filename: TR_1208_01_1_2018.dgn	2010.00.21 07.40.00-04	SO OTTICE OF ENGINEERING		

Architecture Engineering Environmental Land Surveying

355 Research Parkway

355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

SHINGTON AVE (ROUTE 5)

BULLETIN #1 - SITE REVISIONS
BULLETIN #2 - 12' WIDE DRIVE THRU LANES
BULLETIN #3 - ADDRESS TOWN COMMENTS
BULLETIN #4 - ADDRESS TOWN COMMENTS
BULLETIN #6 - REPUSIONS
BULLETIN #6 - REPUSIONS
BULLETIN #6 - REPUSIONS
BULLETIN #7 - LANDSCAPE AND VARIANCE NOTE
BULLETIN #8 - REPOVISE TO RAS
BULLETIN #9 - RESPONSE TO RAS
BULLETIN #10 - COA LETTER AND CHANGE OF USE
BULLETIN #10 - COA LETTER AND CHANGE OF USE
BULLETIN #10 - COA LETTER AND CHANGE OF USE
BULLETIN #12 - DRIVEWAY ISLANDS
BULLETIN #13 - REVISED WATER LINE CONNECTIONS
BULLETIN #13 - REVISED WATER LINE CONNECTIONS
BULLETIN #15 - REVISIONS TO GRADING
BULLETIN #16 - REVISIONS TO GRADING
BULLETIN #16 - REVISIONS TO GRADING
BULLETIN #18 - REVISION ROWER LAYOUT

Designed R.M.D.
Drawn R.M.D.
Reviewed S.M.K.
Scale NONE
Project No. 1901997
Date 07/07/2021
CAD File:

DETAILS SHEET
- CT DOT
- STANDARDS

DN190199701

STAND

Sheet No.

2022 BL COMPANIES, INC. THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF BL COMPANIES.

Shee

Architecture Engineering Environmental Land Surveying

Companies

355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

D DEVELOPMENT
JGTON AVE (ROUTE 5)

BULLETIN #1 - SITE REVISIONS
BULLETIN #2 - 12' WIDE DRIVE THRU LANES
BULLETIN #3 - ADDRESS TOWN COMMENTS
BULLETIN #4 - ADDRESS TOWN COMMENTS
BULLETIN #4 - ADDRESS TOWN COMMENTS
BULLETIN #6 - REPRESS TOWN COMMENTS
BULLETIN #6 - REPRESS TOWN COMMENTS
BULLETIN #6 - REVISED TRASH ENCLOSURE DEFAILS
BULLETIN #7 - LANDSCAPE AND VARIANCE NOTE
BULLETIN #9 - RESPONSE TO RET
BULLETIN #1 - TENAR NITE INAROVEMENTS
BULLETIN #1 - TENAR NITE INAROVEMENTS
BULLETIN #1 - TENAR NITE INAROVEMENTS
BULLETIN #1 - CACL HEASIN IN BUNEWAY
BULLETIN #1 - CACL HEASIN IN BUNEWAY
BULLETIN #1 - REVISIONS TO GRADING
BULLETIN #1 - REVISIONS TO GRADING
BULLETIN #1 - TENANT A PARKING SIGNS
BULLETIN #18 - REVISION TO GRADING

Designed R.M.D.
Drawn R.M.D.
Reviewed S.M.K.
Scale NONE
Project No. 1901997
Date 07/07/2021

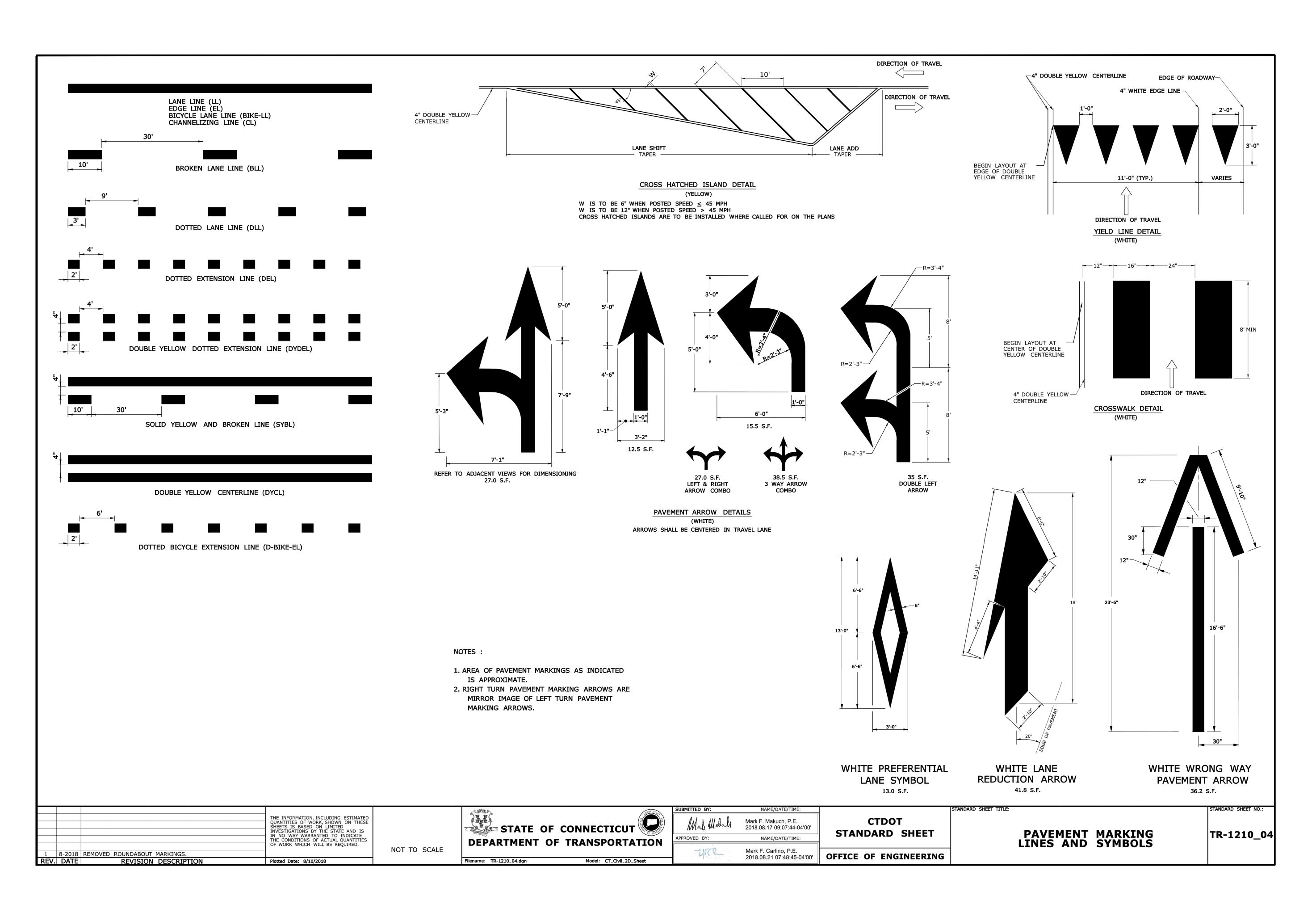
CAD File:
DN190199701

Title

DETAILS SHEET

DETAILS SHEET
- CT DOT
STANDARDS

Sheet No



Architecture Engineering Environmental Land Surveying

A Error Poly

355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

AOPOSED DEVELOPMENT 44 WASHINGTON AVE (ROUTE 5) NORTH HAVEN, CONNECTICUT

LETIN #1 - SITE REVISIONS
LETIN #1 - SITE REVISIONS
LETIN #3 - ADDRESS TOWN COMMENTS
LETIN #4 - ADDRESS TOWN COMMENTS
LETIN #4 - ADDRESS TOWN COMMENTS
LETIN #6 - REVISIONS
LETIN #6 - REVISIONS
LETIN #7 - LANDSCAPE AND VARIANCE NOTE
LETIN #8 - RESPONSE TO R18
LETIN #9 - RESPONSE TO R10
LETIN #1 - TOOA LETTRE AND CHANGE OF USE
LETIN #10 - COA LETTRE AND CHANGE OF USE
LETIN #11 - TENANT SITE IMPROVEMENTS
LETIN #13 - REVISED WATTRE LINE CONNECTIONS
LETIN #13 - REVISED WATTRE LINE CONNECTIONS
LETIN #13 - REVISION TO GRADING
LETIN #16 - REVISIONS TO GRADING
LETIN #17 - TENANT A PARKING SIGNS
LETIN #17 - TENANT A PARKING SIGNS
LETIN #19 - STARBUCKS REVISIONS

4/28/2021 BULLE 5/10/2021 BULLE 5/10/2021 BULLE 6/08/2021 BULLE 6/08/2021 BULLE 6/24/2021 BULLE 6/24/2021 BULLE 7/08/2021 BULLE 9/20/2021 BULLE 10/11/2021 BULLE 10/11/2021 BULLE 11/0/1/2021 BULLE 11/15/2021 BUL

REVISOR 10/11/15/1

Designed R.M.D.
Drawn R.M.D.
Reviewed S.M.K.
Scale NONE
Project No. 1901997
Date 07/07/2021

Project No. 19
Date 07/07

CAD File:
DN190199701

DETAILS SHEET
- CT DOT
STANDARDS

Sheet No

OPO 14 WASI 10RTH

2. 5/04/2021 BUL 5. 6/03/2021 BUL 6. 6/03/2021 BUL 6. 6/03/2021 BUL 6. 6/03/2021 BUL 7. 6/24/2021 BUL 9. 7/08/2021 BUL 11. 8/24/2021 BUL 11. 10/11/2021 BUL 12. 10/11/2021 BUL 13. 10/11/2021 BUL 14. 10/15/2021 BUL 15. 11/03/2021 BUL 16. 11/03/2021 BUL 17. 12/02/2021 BUL 18. 10/11/2021 BUL 19. 10/11/2021 BUL 10/11/2021 BUL 11/03/2021 BUL 11/03/2021 BUL 12/02/2021 BUL 13. 10/11/2021 BUL 14. 10/15/2021 BUL 15. 10/11/2021 BUL 16. 10/15/2021 BUL 17. 10/15/2021 BU

Designed R.M.D.

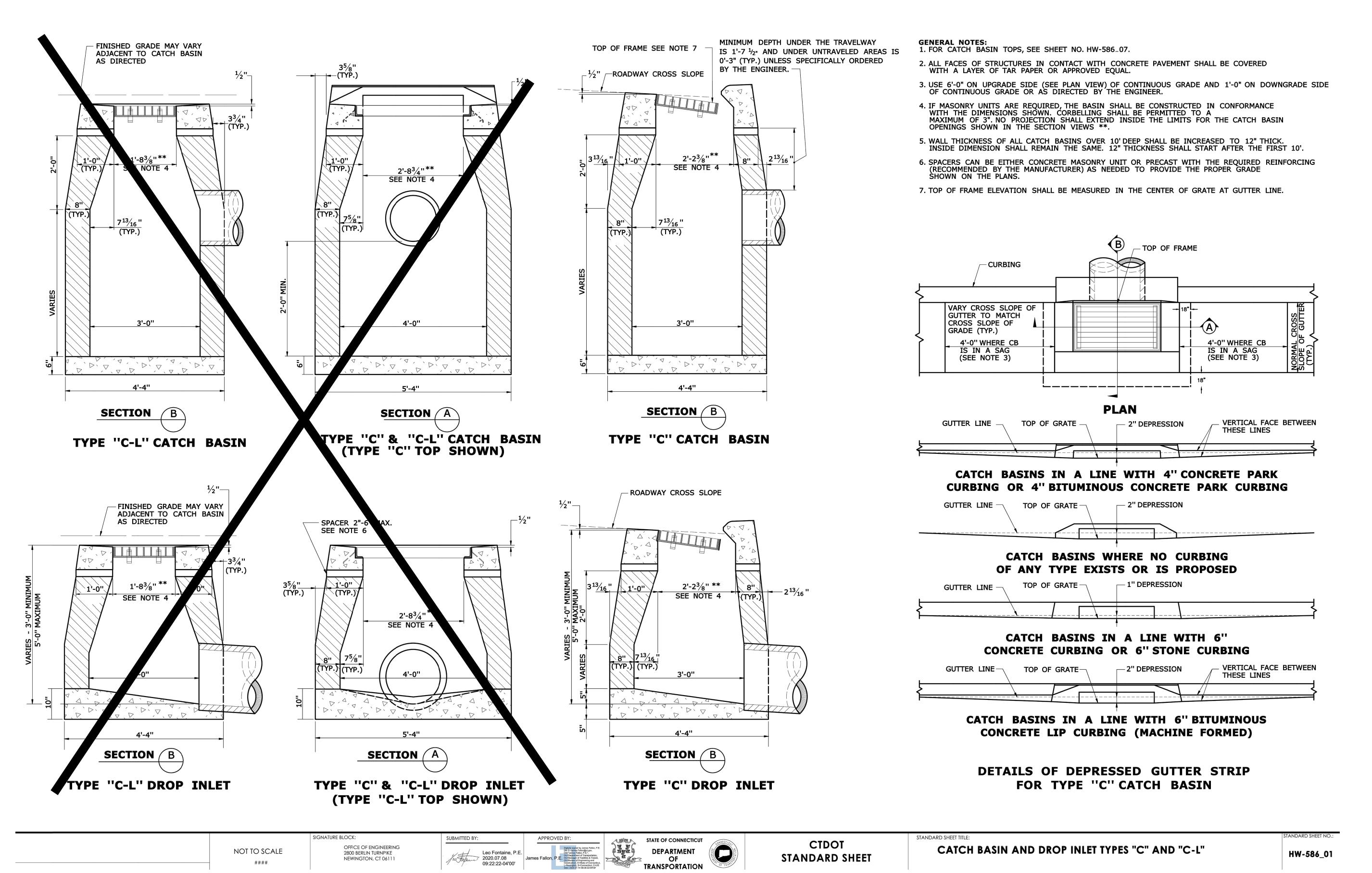
Drawn R.M.D.

Project No. 1901997
Date 07/07/2021
CAD File:

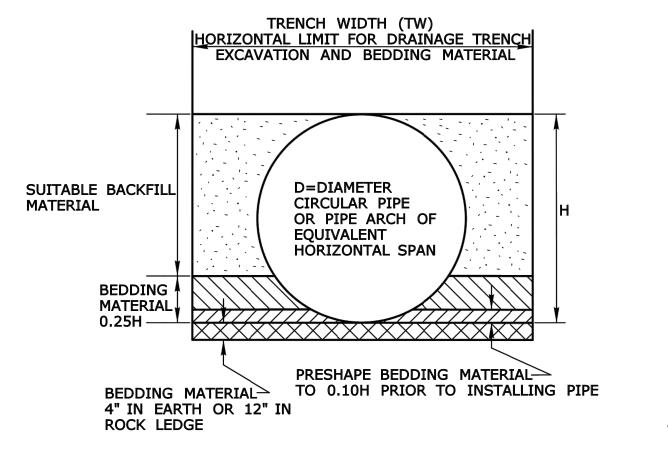
CAD File: DN190199701 Title

DETAILS SHEET
- CT DOT
STANDARDS

STAND







OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111

NOT TO SCALE

BEDDING MATERIAL H+12" D=DIAMETER
CIRCULAR PIPE
OR PIPE ARCH OF
EQUIVALENT HÖRIZONTAL SPAN PRESHAPE BEDDING MATERIAL TO 0.10H PRIOR TO INSTALLING PIPE BEDDING MATERIAL— 4" IN EARTH OR 12" IN ROCK LEDGE

TRENCH WIDTH (TW)
HORIZONTAL LIMIT FOR DRAINAGE TRENCH
EXCAVATION AND BEDDING MATERIAL

PIPE TRENCH FOR PIPES LESS THAN 48"

Leo Fontaine, P.E. 2020.07.08
09:20:49-04'00'

James Fallon, P.E. Old-Busines of Fallon, P.E. Old-Busines o

PIPE TRENCH FOR PIPES GREATER THAN OR EQUAL TO 48"

TRENCH WIDTH (TW) CHART

PIPE, PIPE-ARCH, OR DRAINAGE STRUCTURE	TRENCH WIDTH
PIPE OR PIPE-ARCH WITH NOMINAL INSIDE HORIZONTAL SPAN LESS THAN 30"	2' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
PIPE OR PIPE-ARCH WITH NOMINAL INSIDE HORIZONTAL SPAN GREATER THAN OR EQUAL TO 30"	3' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
PIPE OR PIPE-ARCH FABRICATED FROM STRUCTURAL PLATES	4' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
DRAINAGE STRUCTURES	2' BEYOND ALL EXTERIOR OR FOUNDATION WALLS

CONNECT CON DEPARTMENT

OF
TRANSPORTATION

CTDOT DRAINAGE TRENCH EXCAVATION STANDARD SHEET

HW-286_01

PLOTTED DATE: 7/7/2020

355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

PROPOSED DEVELOPMENT 144 WASHINGTON AVE (ROUTE 5) NORTH HAVEN, CONNECTICUT

LEIN #1 - SITE REV
LEITN #3 - ADDRED
LEITN #4 - ADDRED
LEITN #4 - ADDRED
LEITN #6 - REV REV
LEITN #6 - RES PON
LEITN #8 - REVISE
LEITN #8 - REVISE
LEITN #8 - CATCI
LEITN #8 - REVISE

R.M.D. Designed R.M.D. Drawn S.M.K. Scale NONE

1901997 Project No. Date 07/07/2021 CAD File: DN190199701

DETAILS SHEET - CT DOT STANDARDS

R.M.D. Designed

R.M.D. Drawn S.M.K. Reviewed Scale NONE 1901997 Project No. 07/07/2021 Date

CAD File: DN190199701

DETAILS SHEET - CDS STANDARD **DETAIL**

CDS2015-4-C DESIGN NOTES

CDS2015-4-C RATED TREATMENT CAPACITY IS 1.4 CFS, OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY IS 10.0 CFS IF THE SITE CONDITIONS EXCEED 10.0 CFS, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

THE STANDARD CDS2015-4-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION

GRATED INLET ONLY (NO INLET PIPE)

GRATED INLET WITH INLET PIPE OR PIPES

CURB INLET ONLY (NO INLET PIPE)

CENTER OF CDS STRUCTURE, SCREEN AND

TOP SLAB ACCESS

48" [1219] I.D. MANHOLE

DETAIL)

STRUCTURE

(SEE FRAME AND COVER

OUTLET PIPE

PERMANENT POOL

ELEV.

SUMP OPENING

FLOW

FIBERGLASS SEPARATION

FLOW

PVC HYDRAULIC SHEAR

FIBERGLASS SEPARATION

CYLINDER AND INLET

INLET PIPE

OIL BAFFLE SKIRT

SEPARATION

PVC HYDRAULIC

SOLIDS STORAGE SUMP

SHEAR PLATE

SCREEN

(MULTIPLE INLET PIPES

MAY BE ACCOMMODATED)

CYLINDER AND INLET

PLATE

CONTRACTOR TO GROUT

TO FINISHED GRADE

GRADE

RINGS/RISERS

+/-65° MAX.

PLAN VIEW B-B

N.T.S.

→ 1'-9" [533] **→**

ELEVATION A-A

N.T.S.

CURB INLET WITH INLET PIPE OR PIPES

CNTECH®

FRAME AND COVER (DIAMETER VARIES) N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	
WATER QUALITY FLOW RATE (CFS OR L/s)	*
PEAK FLOW RATE (CFS OR L/s)	*
RETURN PERIOD OF PEAK FLOW (YRS)	*
SCREEN APERTURE (2400 OR 4700)	*

*	*				
J.					
*	*				
*	*				
OUTLET PIPE * * RIM ELEVATION					

ANTI-FLOTATION BALLAST WIDTH HEIGHT

* PER ENGINEER OF RECORD

CDS2015-4-C

ONLINE CDS

STANDARD DETAIL

NOTES/SPECIAL REQUIREMENTS:

GENERAL NOTES

CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.

- 2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
- 3. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT
- 4. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO...
- 5. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
- 6. CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
- C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.



800-338-1122 513-645-7000 513-645-7993 FAX

www.contechES.com

9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069

2

REV

STORMTECH CHAMBER SPECIFICATIONS

CHAMBERS SHALL BE STORMTECH DC-780

FLEXSTORM PURE INSERTS IN ANY UPSTREAM STRUCTURES WITH OPEN GRATES

ELEVATED BYPASS MANIFOLD -

SUMP DEPTH TBD BY

SITE DESIGN ENGINEER

(24" [600 mm] MIN RECOMMENDED)

- 2. CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT
- PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER
- 7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR
- A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE

LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.

A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.

> OPTIONAL: COVER ENTIRE ISOLATOR ROW WITH ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE

8' (2.4 m) MIN WIDE

CATCH BASIN

OR MANHOLE

- 24" (600 mm) HDPE ACCESS PIPE REQUIRED USE FACTORY PRE-FABRICATED END CAP

DC-780 ISOLATOR ROW DETAIL

PART #: SC740EPE24B

CONCRETE COLLAR NOT REQUIRED

PART# 2712AG6IP*

12" (300 mm) NYLOPLAST INLINE DRAIN BODY W/SOLID HINGED COVER OR GRATE

c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED. 8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE DC-780 CHAMBER SYSTEM

- STORMTECH DC-780 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A
- 2. STORMTECH DC-780 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- 3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.
- STONESHOOTER LOCATED OFF THE CHAMBER BED. BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- 6. MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS. 7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
- 8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- 1. STORMTECH DC-780 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION
- 2. THE USE OF CONSTRUCTION EQUIPMENT OVER DC-780 CHAMBERS IS LIMITED:
- NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION

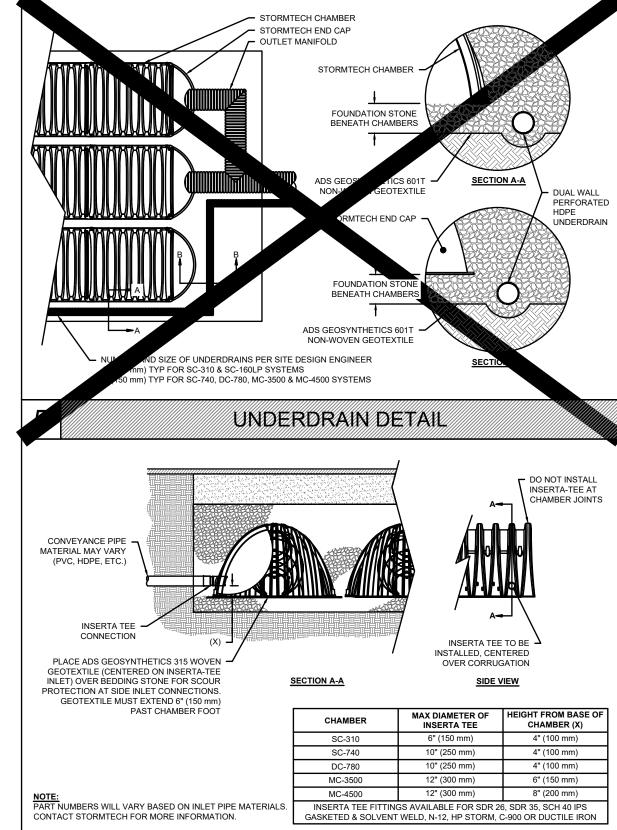
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING. USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION

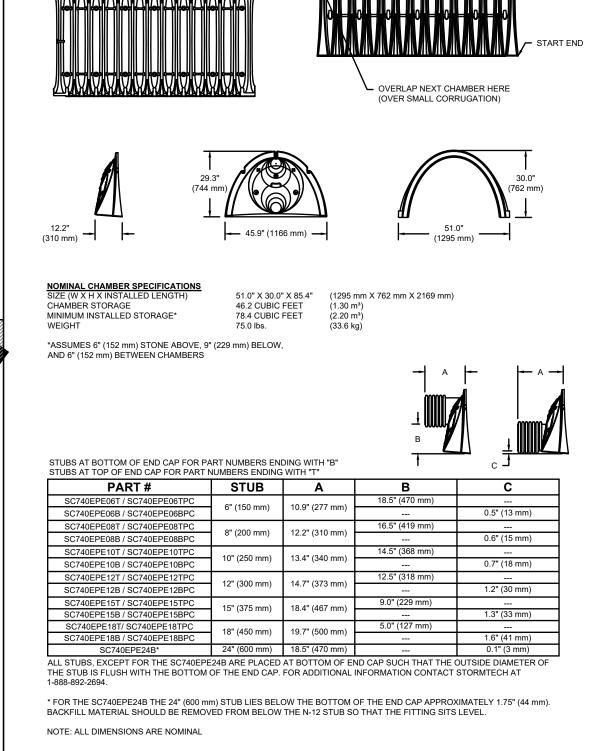
DC-780/SC-740 END CAP

GEOTEXTILE BETWEEN FOUNDATION STONE AND CHAMBERS

5' (1.5 m) MIN WIDE CONTINUOUS FABRIC WITHOUT SEAMS



INSERTA-TEE SIDE INLET DETAIL



DC-780 TECHNICAL SPECIFICATIONS

85.4" (2169 mm) INSTALLED LENGTH

BUILD ROW IN THIS DIRECTION

90.7" (2304 mm) ACTUAL LENGTH -----

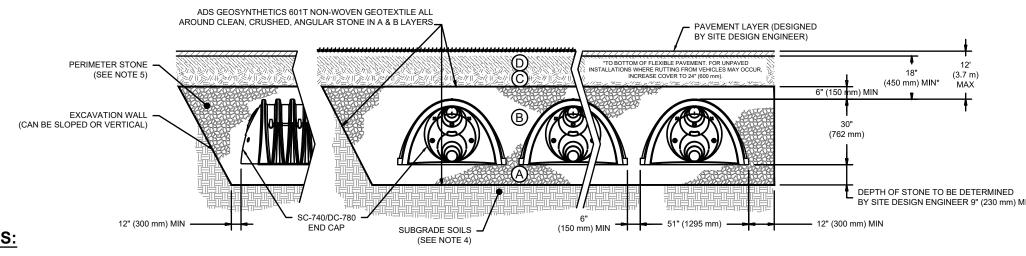
ACCEPTABLE FILL MATERIALS: STORMTECH DC-780 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	OR	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE." ANGULAR NO. 4 (AASHTO M43) STONE".

STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.

WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



DC-780 CROSS SECTION DETAIL

- DC-780 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS
- 3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL

2. DC-780 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION

- 4. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- 5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 6. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL

SHEET

CONCRETE SLAB GRATE: 1299CGS 8" (200 mm) MIN THICKNESS - 6" (150 mm) SDR35 PIPE FLEXSTORM CATCH IT . PART# 6212NYFX WITH USE OF OPEN GRATE PART# 6P26FBSTIF INSERTA TEE TO BE CENTERED ON CORRUGATION CREST * THE PART# **2712AG6IPKIT** CAN BE USED TO ORDER ALL NECESSARY INSPECTION PORT INSTALLATION DC-780 6" (150 mm) INSPECTION PORT DETAIL

INSPECTION & MAINTENANCE STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT

INSPECTION PORTS (IF PRESENT)

MAINTENANCE LOG

STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS

VACUUM STRUCTURE SUMP AS REQUIRED

B. ALL ISOLATOR ROWS

REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN

A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON

A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS

REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE

A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY

ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE

B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS

B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS

022 BL COMPANIES, INC. THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF BL COMPANIES.

355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

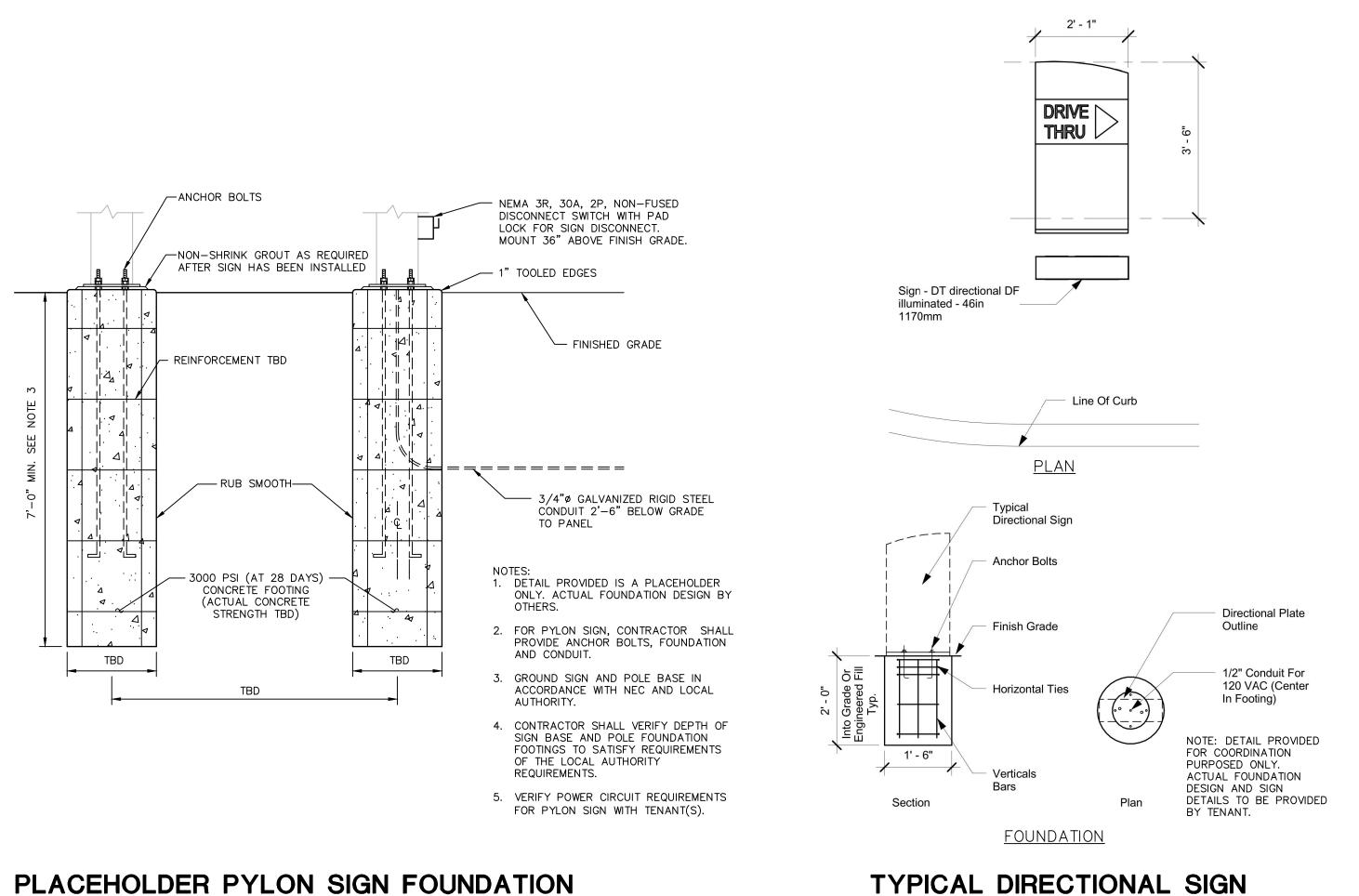
OPMENI (ROUTE 5) VECTICUT OP

R.M.D. Designed

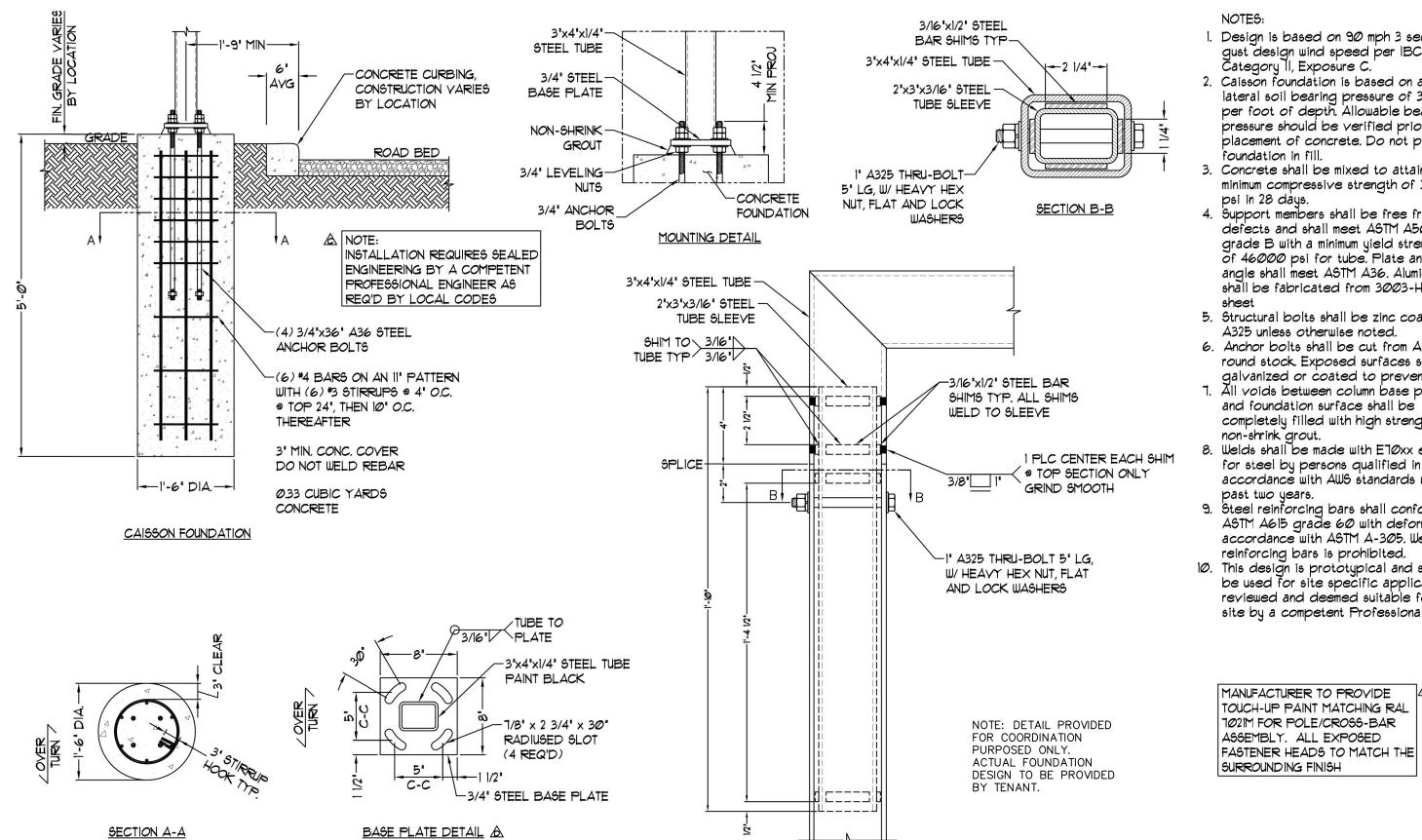
R.M.D. S.M.K. Reviewed NONE Scale Project No. 1901997 07/07/2021 Date CAD File:

DN190199701 **DETAILS SHEET STORMTECH**

CHAMBER



TYPICAL DIRECTIONAL SIGN



1. Design is based on 90 mph 3 second gust design wind speed per IBC 2009. Category II, Exposure C.

2. Caisson foundation is based on a safe lateral soil bearing pressure of 300 psf per foot of depth. Allowable bearing pressure should be verified prior to placement of concrete. Do not place foundation in fill.

3. Concrete shall be mixed to attain a minimum compressive strength of 3000 þsí ín 28 dáys.

4. Support members shall be free from defects and shall meet ASTM A500 grade B with a minimum yield strength of 46000 psi for tube. Plate and angle shall meet ASTM A36. Aluminum shall be fabricated from 3003-HI4

5. Structural bolts shall be zinc coated A325 unless otherwise noted. 6. Anchor bolts shall be cut from A36 round stock Exposed surfaces shall be galvanized or coated to prevent corrosion. 7. All voids between column base plate

completely filled with high strength, non-shrink grout. 8. Welds shall be made with ETØxx electrodes for steel by persons qualified in accordance with AWS standards within the

past two years.

9. Steel reinforcing bars shall conform to
ASTM A615 grade 60 with deformations in
accordance with ASTM A-305. Welding of reinforcing bars is prohibited.

10. This design is prototypical and should not be used for site specific applications unless reviewed and deemed suitable for use at that site by a competent Professional Engineer.

MANUFACTURER TO PROVIDE A TOUCH-UP PAINT MATCHING RAL 1021M FOR POLE/CROSS-BAR ASSEMBLY. ALL EXPOSED FASTENER HEADS TO MATCH THE SURROUNDING FINISH

TYPICAL HEIGHT BAR FOUNDATION

DETAIL B A

#P21-10 & P21-18, SITE PLAN APPROVAL

355 Research Parkway

Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax

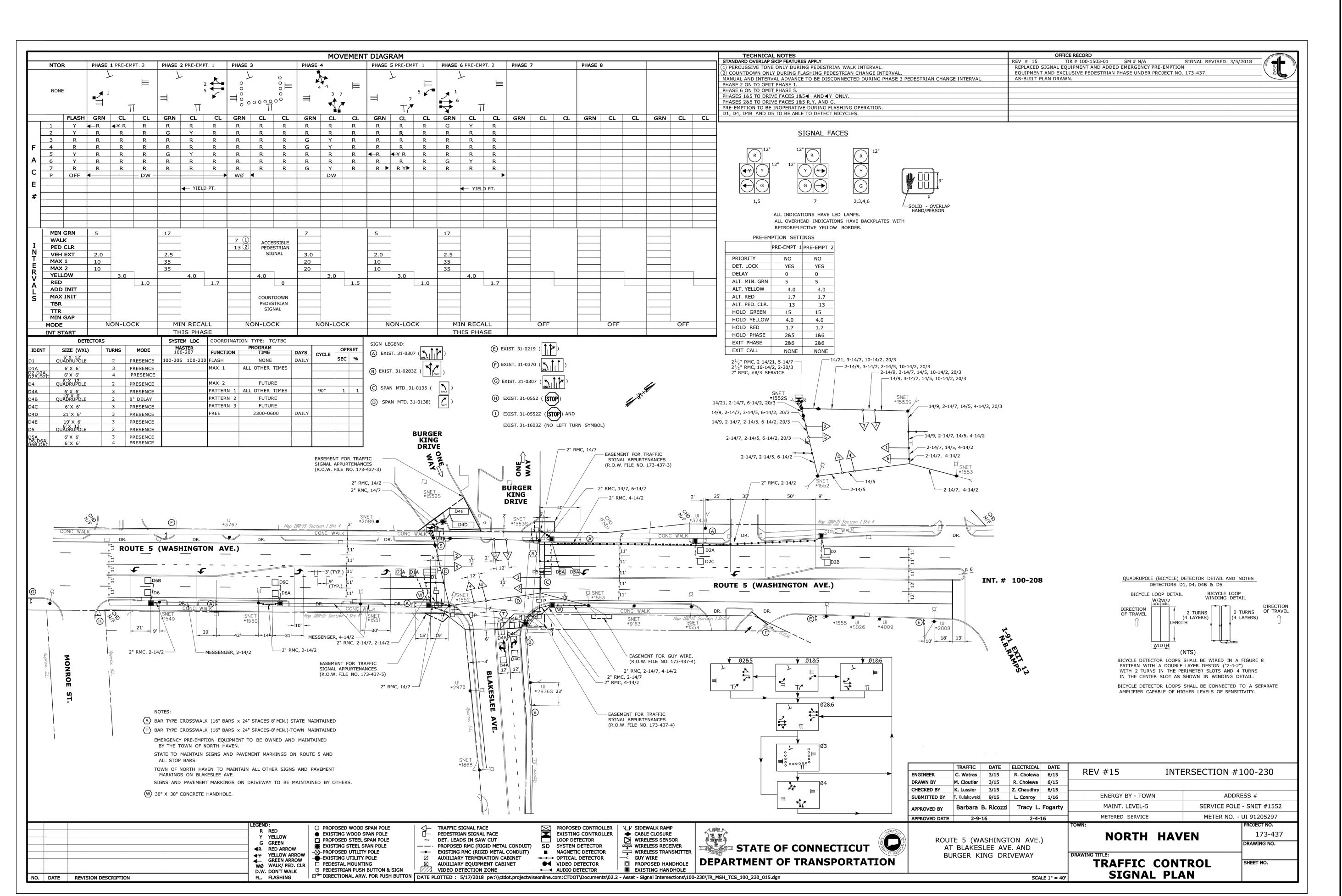
OPOSED DEVELOPMENT4 WASHINGTON AVE (ROUTE 5)
4 ORTH HAVEN, CONNECTICUT

REVI 4728/: 55/104/: 6/03/: 6/03/: 6/24/: 6/24/: 10/11/: 10/11/: 11/15/: - 284597886-1018459788

R.M.D. Designed R.M.D. Drawn S.M.K. Reviewed NONE Scale 1901997 Project No. 07/07/2021

Date CAD File: DN190199701

DETAILS SHEET -SIGNAGE **FOUNDATIONS**



SED DEVELOPMENT SHINGTON AVE (ROUTE 5) HAVEN, CONNECTICUT

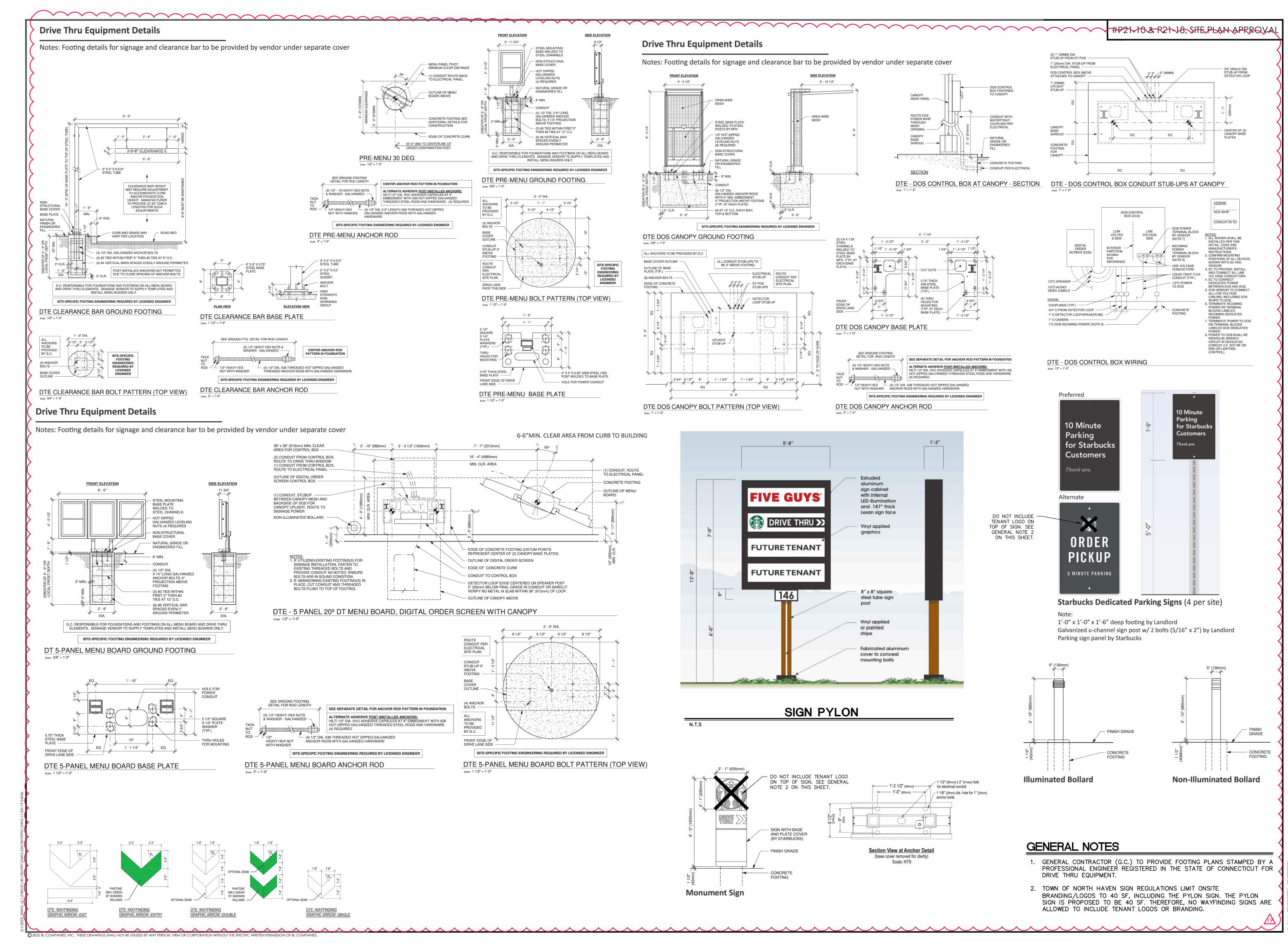
OPO 14 WASI JORTH

-2645978860-2645978

R.M.D. Designed R.M.D. S.M.K. Reviewed NONE Scale Project No. 1901997 07/07/2021 Date

CAD File: DN190199701

DETAILS SHEET - CT DOT SIGNAL **PLAN**



VELOPMENT AVE (ROUTE 5) CONNECTICUT

0

R.M.D. Designed R.M.D. Drawn

S.M.K. Reviewed NONE Scale 1901997 Project No. 07/07/2021 Date CAD File: DN190199701

DETAILS SHEET TENANT A DETAILS

Sheet No.

R.M.D. Designed Drawn R.M.D. S.M.K. Reviewed

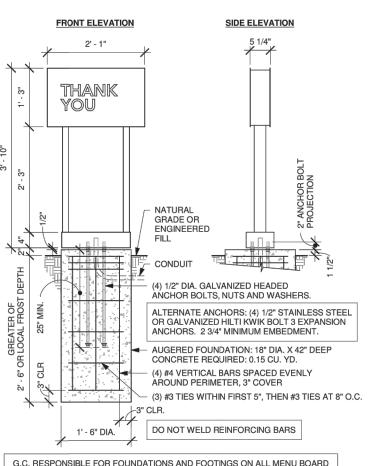
Scale NONE 1901997 Project No. Date 07/07/2021

CAD File: DN190199701

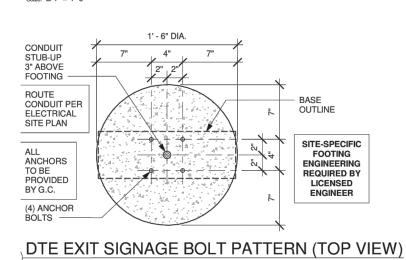
DETAILS SHEET -TENANT A

DETAILS

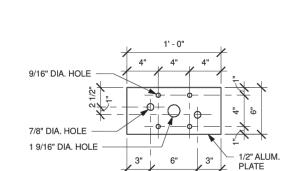
Site Signage Details Note: Footing details for signage and clearance bar to be provided by vendor under separate cover



G.C. RESPONSIBLE FOR FOUNDATIONS AND FOOTINGS ON ALL MENU BOARD AND DRIVE THRU ELEMENTS. SIGNAGE VENDOR TO SUPPLY TEMPLATES AND INSTALL MENU BOARDS ONLY. SITE-SPECIFIC FOOTING ENGINEERING REQUIRED BY LICENSED ENGINEER DTE EXIT SIGNAGE GROUND FOOTING

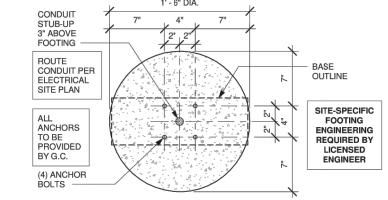


46" Thank You / Exit Only Sign, Illuminated



Scale: 1 1/2" = 1'-0"

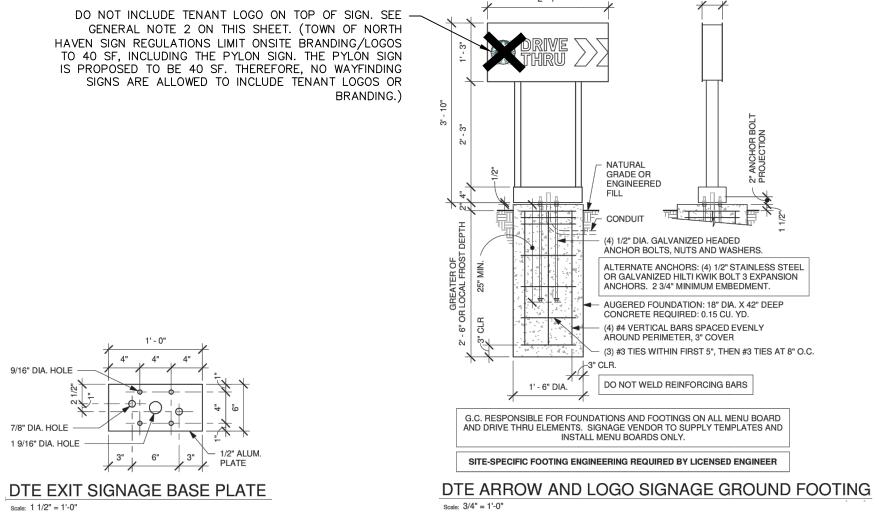
7/8" DIA. HOLE ----



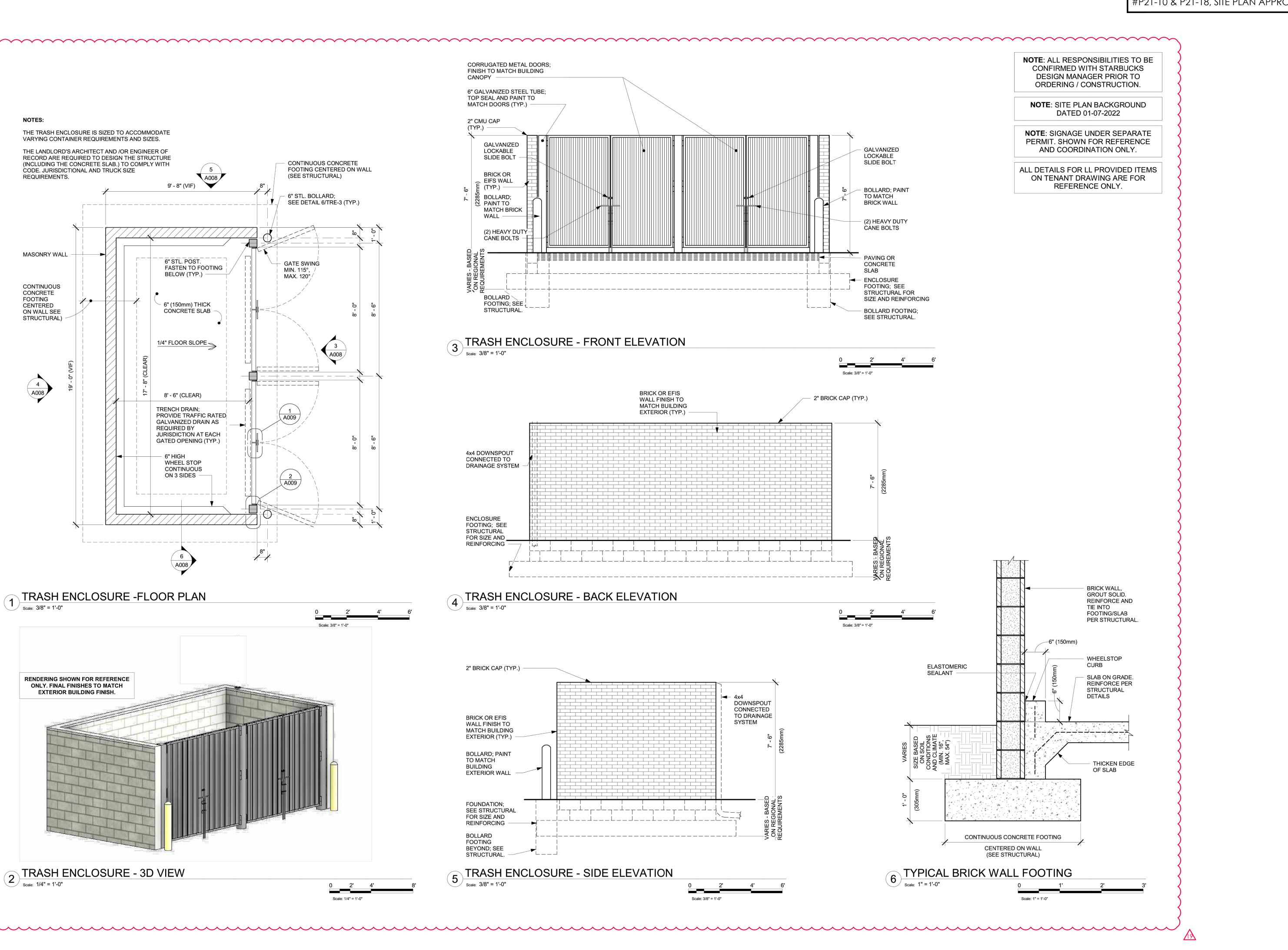
FRONT ELEVATION

DTE ARROW AND LOGO SIGNAGE BASE PLATE DTE ARROW AND LOGO SIGNAGE BOLT PATTERN (TOP VIEW)

SIDE ELEVATION



46" Directional Arrow w/ Logo, Illuminated





OPO 14 WASI VORTH

-08450/86-116459/8

R.M.D Designed Drawn S.M.K. Reviewed NONE Scale

1901997

Project No. 07/07/2021 Date CAD File: DN190199701

DETAILS SHEET

TENANT A DETAILS