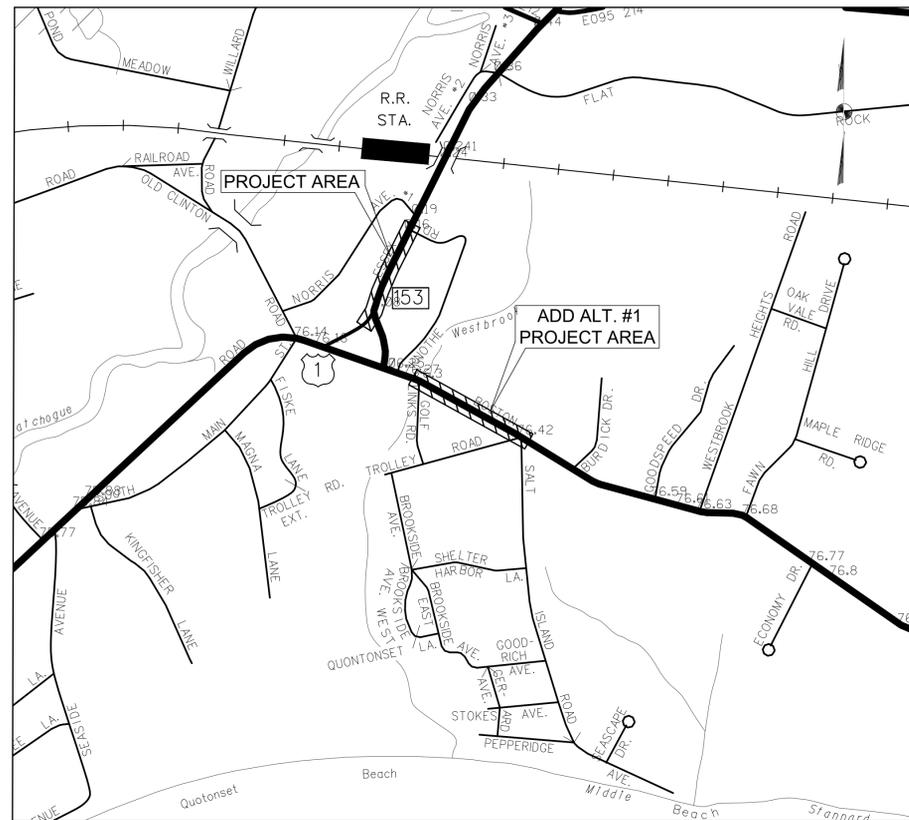


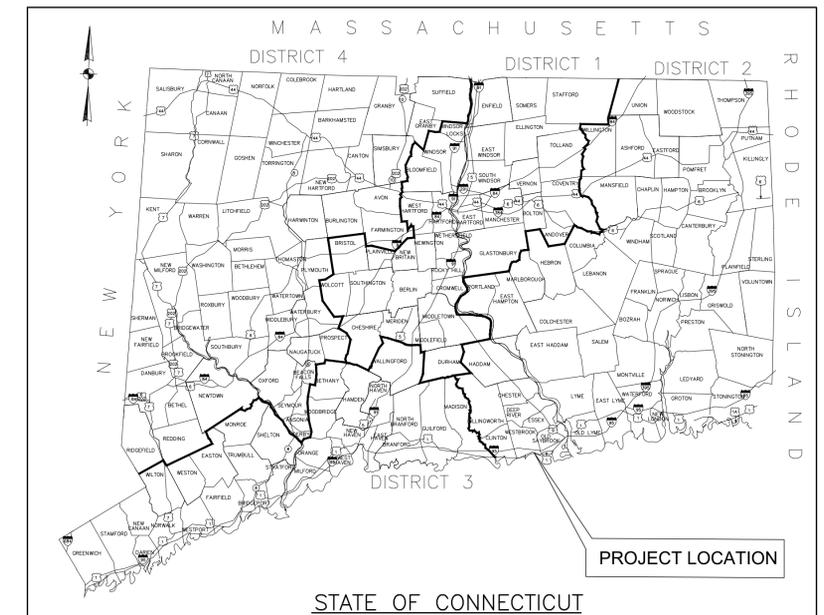
BID DOCUMENTS FOR SIDEWALK ENHANCEMENT AND EXTENSIONS ALONG ROUTE 1 WESTBROOK, CONNECTICUT

NOVEMBER 22, 2019

ERIC KNAPP
PLANNING, ZONING &
DEVELOPMENT COORDINATOR



PROJECT LOCATION MAP
1"=500'

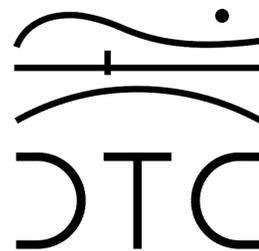


DRAWING INDEX		
DRAWING NO.	SHEET NO	DRAWING TITLE
CV-1	01	COVER SHEET
GN-1	02	GENERAL NOTES
EX-1-EX-2	03-04	EXISTING CONDITIONS
PLN-1-PLN-2	05-06	PROPOSED CONDITIONS
MT-1	07	MAINTENANCE AND PROTECTION OF TRAFFIC
ES-1	08	SEDIMENT AND EROSION CONTROL DETAILS
ES-2	09	SEDIMENT AND EROSION CONTROL PLAN
MDS-1-MDS-7	10-16	MISCELLANEOUS DETAILS

2016 SPECIFICATIONS, 817 INCLUDING SUPPLEMENTS THERETO DATED.

SURVEY WAS PERFORMED BY GESICK & ASSOCIATES, P.C. UTILIZING THE CONNECTICUT GRID SYSTEM NAD 83. ALL ELEVATIONS REFER TO NAVD 1988 DATUM.

THE LOCATIONS OF ALL UTILITIES HEREON ARE BASED ON THE BEST AVAILABLE DATA, THE LOCATIONS ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" 1-800-922-4455 AND HAVE ALL UTILITIES MARKED ON THE GROUND.



2321 Whitney Avenue - Hamden Center II - Hamden CT 06518
Ph: 203 239 4200 Fax: 203 234 7376
www.teamdct.com

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	WESTBROOK		19-106	2019	1/153	CV-1	16

Legend

SYMBOL	DESCRIPTION
	PROPERTY CORNER
	IP / REBAR
	MON / MERESTONE
	BENCH MARK
	UTILITY POLE
	UTILITY POLE W/ LIGHT
	GUY WIRE
	GAS VALVE
	WATER VALVE
	FIRE HYDRANT
	CATCH BASIN
	MANHOLE
	MONITORING WELL
	SIGN
	LIGHT POLE
	YARD LIGHT
	WOOD POST
	DECIDUOUS TREE
	CONIFEROUS TREE
	SHRUB
	STUMP
	HEDGE
	STONEWALL
	TREELINE
	FENCE LINE
	OVERHEAD WIRES
	WATER LINE
	GAS LINE
	ELECTRIC LINE
	TELEPHONE LINE
	PROPERTY LINE
	PROPERTY LINE OTHER
	INDEX CONTOUR
	INTERMEDIATE CONTOUR
	ROAD PAINTMARKS
	BURIED TRAFFIC PATTERN
	SPOT ELEVATION
	PLANTED AREA
	GRAVEL AREA
	EXISTING BUILDING
	EXPOSED LEDGE
	NOW OR FORMERLY
	ELEVATION
	ELECTRIC METER
	TYPICAL
	CORRUGATED METAL PIPE
	REINFORCED CONCRETE PIPE
	CORRUGATED PLASTIC PIPE
	EDGE OF PAVEMENT
	CONCRETE
	BITUMINOUS CONCRETE LIP CURB
	CONCRETE CURB
	FACE OF CURB
	TOP OF CURB
	INVERT
	CONNECTICUT HIGHWAY DEPARTMENT
	WITH
	AMERICANS WITH DISABILITIES ACT
	TRAFFIC PATTERN

GENERAL NOTES

- BEARINGS AND COORDINATES ARE BASED ON NAD83. ELEVATIONS ARE BASED ON NGVD29.
- TOPOGRAPHIC AND BOUNDARY SURVEY WAS PREPARED BY GESSICK & ASSOCIATES P.C. DATED APRIL 05, 2019. FOR INFORMATION ON BENCHMARK AND HORIZONTAL CONTROL PLEASE CONTACT GESSICK & ASSOCIATES P.C.
- THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE FROM MAPS OF UTILITY COMPANIES, FIELD SURVEYS, AND THE BEST AVAILABLE INFORMATION. THEY MUST BE CONSIDERED AS ONLY APPROXIMATE BOTH AS TO SIZE AND LOCATION, AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL FIELD LOCATIONS. LOCATIONS OF CRITICAL UTILITIES SHALL BE VERIFIED BY THE SITE CONTRACTOR IN THE FIELD BY TEST PITS.
- ALL DIMENSIONS AND ELEVATIONS MUST BE FIELD VERIFIED BY THE GENERAL CONTRACTOR.
- ALL EXISTING UTILITY SERVICES SHALL BE PROTECTED AND MAINTAINED IN SERVICE.
- THE GENERAL CONTRACTOR MUST CALL "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. (1-800-922-4455).
- SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL," LATEST EDITION.
- ALL EXISTING FEATURES ARE DRAWN AS SCREENED, LIGHT LINES. PROPOSED FEATURES ARE SHOWN AS SOLID AND DASHED, DARK LINES.
- THE LONGITUDINAL SLOPE ALONG THE HANDICAPPED ACCESSIBLE ROUTE SHALL NOT EXCEED 5% UNLESS RAMPS ARE PROVIDED AS SHOWN AND THE CROSS SLOPE ALONG THE HANDICAPPED ACCESSIBLE ROUTE SHALL NOT EXCEED 2%. CHANGES IN LEVELS SHALL NOT BE GREATER THAN 1/4 INCH. THE LONGITUDINAL SLOPE OF RAMPS SHALL NOT EXCEED 8.3%.
- WITHIN THE PROJECT LIMITS, PROTECT ALL IRON PIPE OR MONUMENT PROPERTY LINE MARKERS.
- IT SHALL BE THE RESPONSIBILITY OF THE SITE CONTRACTOR TO ENSURE PROPER IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROLS, AS SHOWN ON THE PLANS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES OF SUCH REQUIREMENTS AND NOTIFICATION OF ANY TRANSFER OF RESPONSIBILITY.
- ALL CONSTRUCTION LAYOUT AND AS-BUILTS MUST BE PERFORMED BY A CONNECTICUT LICENSED LAND SURVEYOR.
- ANY DISCREPANCIES BETWEEN INFORMATION SHOWN ON THESE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER FOR RESOLUTION.
- PROTECT ALL PROJECT BENCH MARKS OUTSIDE CONTRACT LIMITS.
- PROTECT REGULATED AREAS OUTSIDE CONTRACT LIMITS AND WITHIN CONTRACT LIMITS.
- THE CONTRACTOR MUST FLAG LIMITS OF CLEARING AND LOCATE ALL TREES WITHIN 10 FEET OF THE CLEARING LIMIT. THE CONTRACTOR MUST OBTAIN APPROVAL OF THE CLEARING LIMITS BY THE ENGINEER/LANDSCAPE ARCHITECT.
- ALL TREES TO REMAIN MUST BE PROTECTED IN ACCORDANCE WITH THE 2002 CONNECTICUT EROSION AND SEDIMENT CONTROL GUIDELINES AND TREE PROTECTION REQUIREMENTS NOTED ON PLANS. STORAGE OF MATERIALS OR EQUIPMENT IS NOT PERMITTED WITHIN THE TREE PROTECTION LIMITS.
- THE CONTRACTOR SHALL LOOSEN PLANTED/LANDSCAPED AREAS TO A DEPTH OF 2 FEET BELOW SUBGRADE PRIOR TO PLACING TOPSOIL. COMPACTION IN PLANTED/LANDSCAPED AREAS MUST NOT EXCEED 80% AND CONSTRUCTION EQUIPMENT IS NOT PERMITTED ON LOOSENED SUBGRADE.
- NOT ALL ABBREVIATIONS AND SYMBOLS USED WITHIN THESE PLANS.
- THE GENERAL CONTRACTOR MUST MAINTAIN (REPAIR/REPLACE WHEN NECESSARY) THE SILTATION CONTROL UNTIL ALL REGULATED ACTIVITY IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.

Nov 01, 2019 - 11:45am
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 User: jharrington

REV.	DATE	DESCRIPTION	SHT. NO.

DESIGNER: SRL
DRAFTER: SRL
CHECKED BY: MDE
DATE CHECKED: 10/13/2019

TOWN OF WESTBROOK

DTC

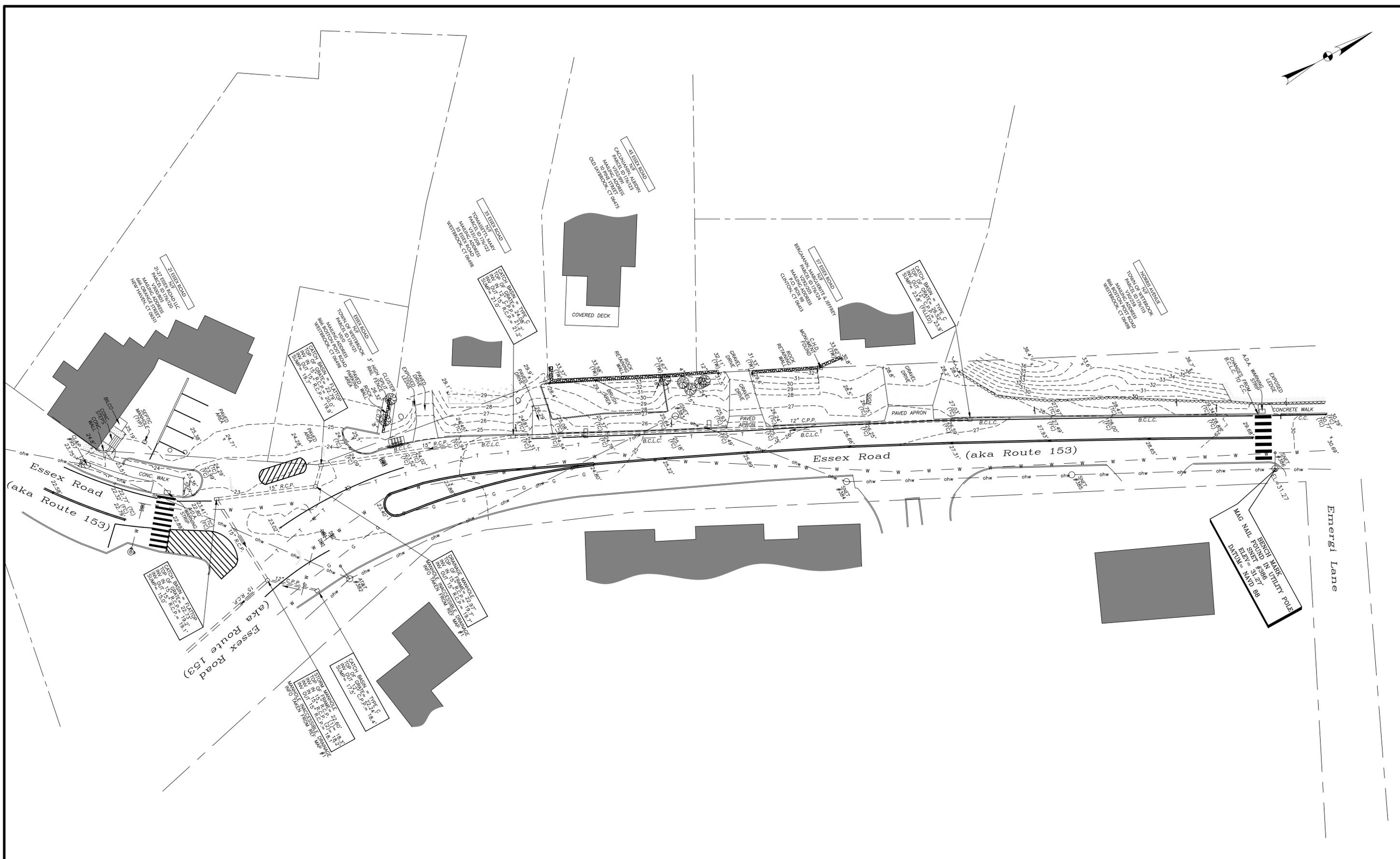
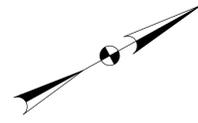
2321 Whiskey Avenue • Hamden, Conn 06518
Ph: 203.234.4300 • Fax: 203.234.7378
www.dtcinc.com

ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS
APPROVED BY: _____ DATE: 11/22/2019

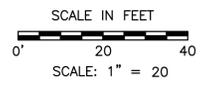
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CADD: 19-106-DT.DWG
PLOTTED: October 14, 2019

DRAWING TITLE: GENERAL NOTES
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PROJECT NO.: 19-106
DRAWING NO.: GN-01
SHEET NO.: 02



REV.	DATE	DESCRIPTION	SHT. NO.



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CHECKED BY:	MDE
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TOWN OF WESTBROOK	
ENGINEER:	DIVERSIFIED TECHNOLOGY CONSULTANTS
APPROVED BY:	DATE: 11/22/2019

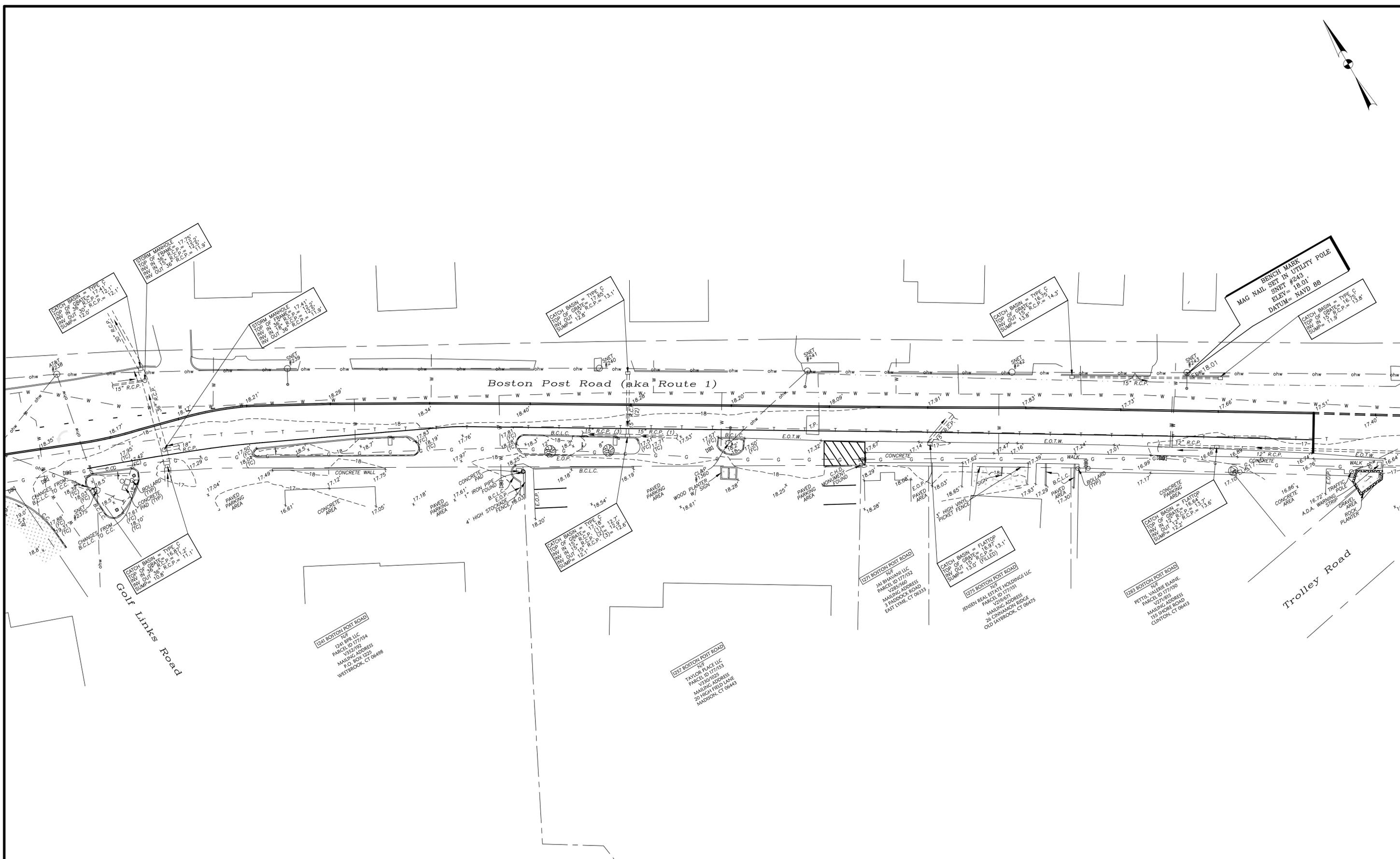


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PLOTTED:	October 14, 2019

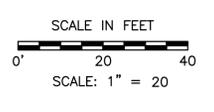
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SHEET NO.:	03

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REV.	DATE	DESCRIPTION	SHT. NO.



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TOWN OF WESTBROOK

ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS
 APPROVED BY: _____ DATE: 11/22/2019



PROJECT TITLE:
**SIDEWALK ENHANCEMENTS AND
 EXTENSIONS ALONG RTE. 1**

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 PLOTTED: October 14, 2019

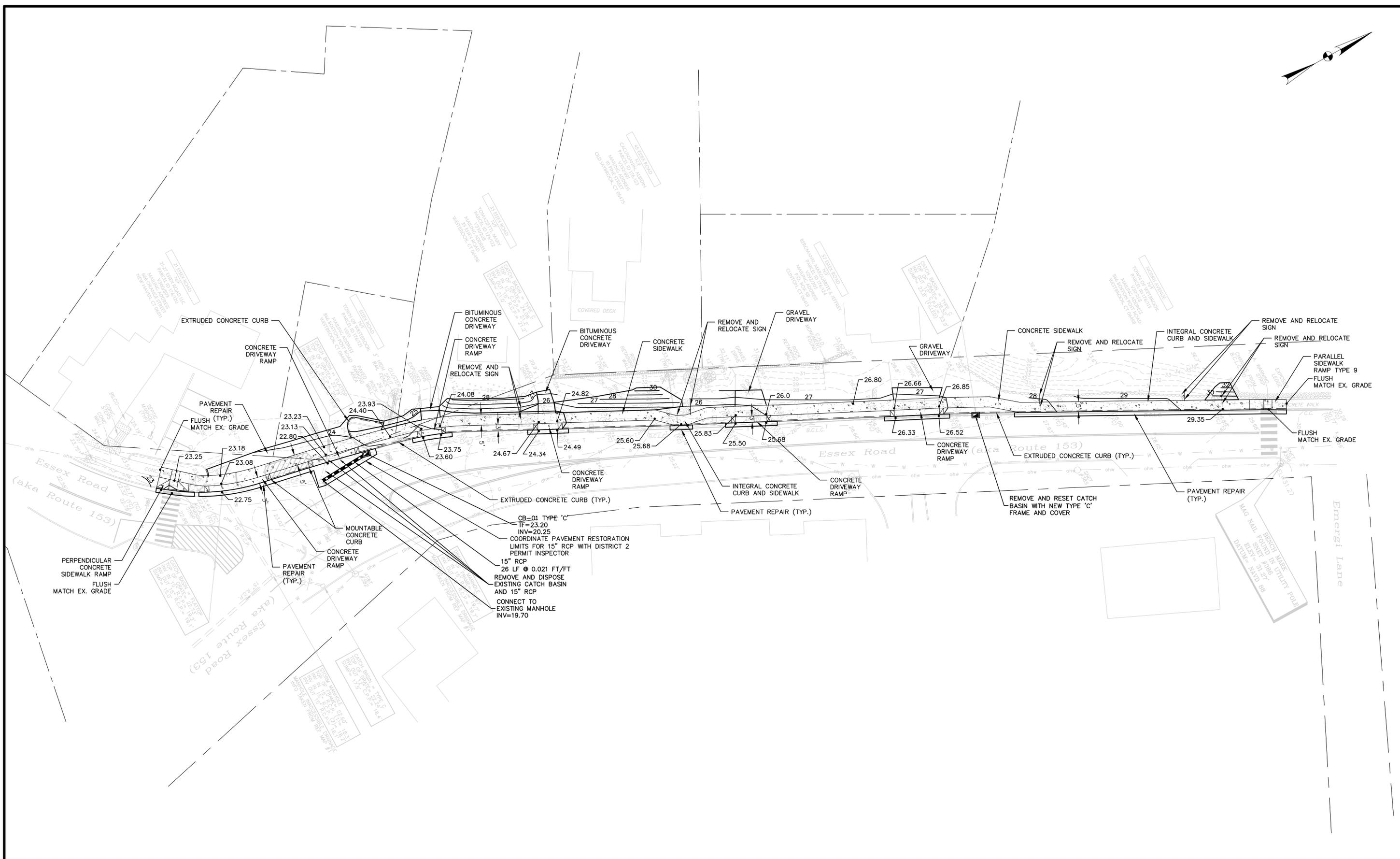
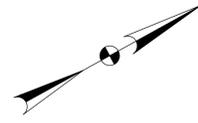
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PROJECT NO.:
19-106

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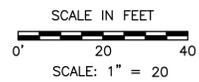
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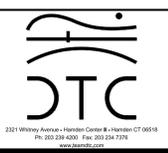
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TOWN OF WESTBROOK

ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS
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PROJECT TITLE:
SIDEWALK ENHANCEMENTS AND EXTENSIONS ALONG RTE. 1

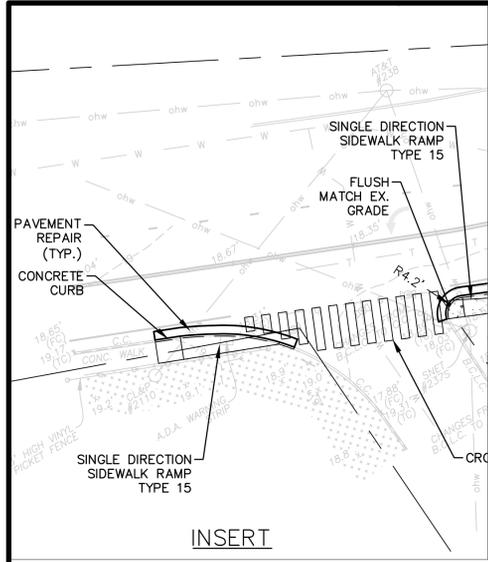
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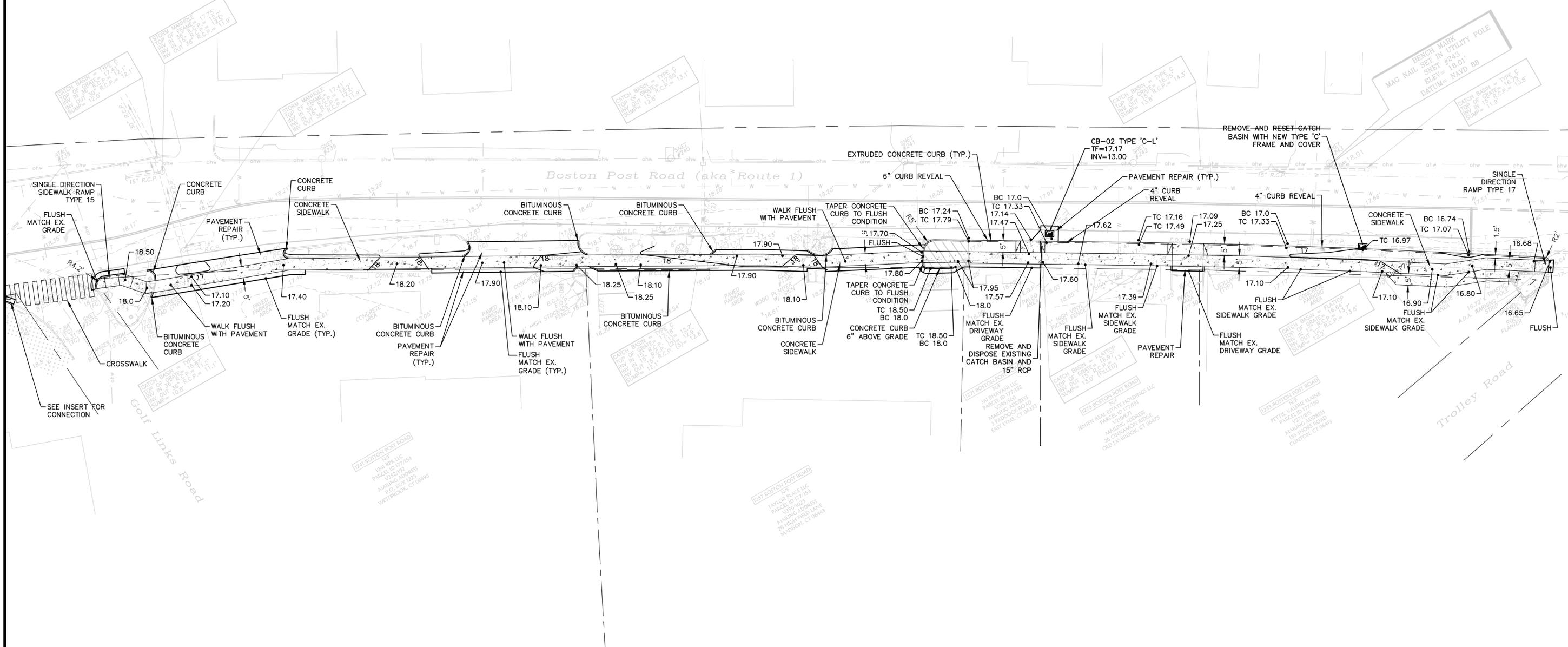
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19-106

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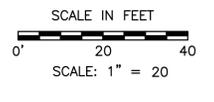
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INSERT



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 DATE CHECKED: 10/13/2019

TOWN OF WESTBROOK

ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS
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PROJECT TITLE:
SIDEWALK ENHANCEMENTS AND EXTENSIONS ALONG RTE. 1

CADD: 19-106-LY.DWG
 PLOTTED: October 14, 2019

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 ADD ALTERNATE # 1
 PROPOSED CONDITIONS

PROJECT NO.:
19-106

DRAWING NO.:
PLN-02

SHEET NO.:
06

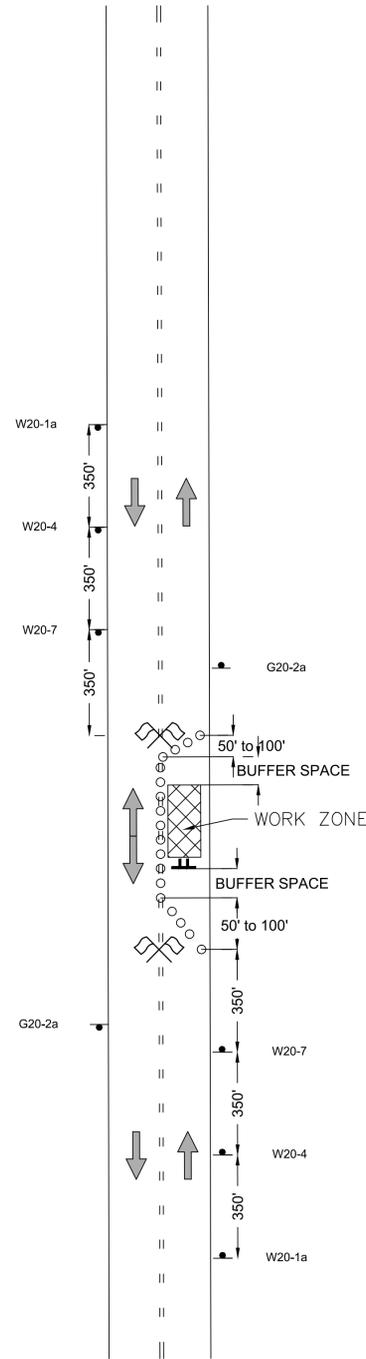
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NOTES — TRAFFIC CONTROL DEVICES

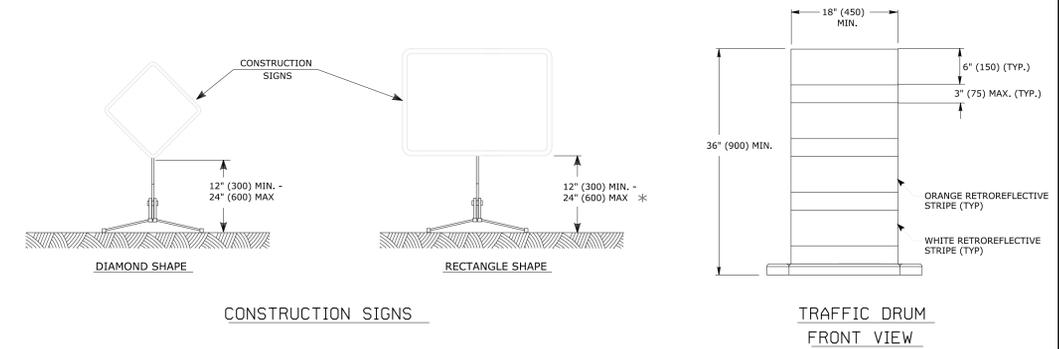
1. THE LOCATIONS OF TEMPORARY SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS.
2. SIGN LOCATIONS SHALL BE ADJUSTED WITH RESPECT TO ROADWAY GEOMETRY AND AT THE DIRECTION OF THE ENGINEER.
3. EXISTING SIGNS THAT CONFLICT WITH THE CONSTRUCTION SIGNING SHALL BE COVERED, REMOVED OR REVISED TO MEET FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. SOME SIGNS MAY NEED TO BE RELOCATED AS NEEDED AND AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION SO THAT THEY ARE IN THE APPROPRIATE LOCATION AND VISIBLE TO MOTORISTS. SOME SIGNS MAY HAVE TO BE TEMPORARILY LOCATED WITHIN THE WORK AREA. THIS WORK WILL BE PAID FOR UNDER ITEM #0971001A—MAINTENANCE AND PROTECTION OF TRAFFIC.
4. THE LOCATIONS OF TRAFFIC DRUMS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS AND TO CLEARLY DEFINE ACCESS TO AND EGRESS FROM ALL ROADWAYS AND DRIVEWAYS..
5. ANY EXISTING SIGNING DAMAGED BY CONTRACTOR SHALL BE REPLACED AT NOT COST.

LEGEND

- CONSTRUCTION SIGN AND SIGN ID
- TYPE III PORTABLE BREAKAWAY BARRICADE
- DIRECTION OF TRAFFIC
- WORK ZONE
- FLAGGER



TWO LANE ROADWAY WITH ONE LANE CLOSURE (TYPICAL)
NOT TO SCALE



NOTES FOR PORTABLE SIGN SUPPORTS:

1. SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" (300) AND A MAXIMUM OF 24" (600). SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
3. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
4. PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) FOR EXIT SIGNS, USE MIN. 72" (1800).

NOTES:

1. TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
3. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
4. THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

CONSTRUCTION SIGN LEGEND

	SERIES	CONNDOT #	LEGEND	SIZE WxH (INCH)
	W20-1a	80-9603	ROAD WORK AHEAD	36 X 36
	G20-2a	80-9612	END ROAD WORK	48 X 24
	W20-4	80-9835	ONE LANE ROAD AHEAD	48 X 48
	W20-7	80-9803	FLAGGER	36 X 36

Rev 01 - 2019 - 11/16/2019
 PA 2019 Case of Westbrook\19-106 Westbrook Sidewalk Enhancements\19-106-MPT.dwg
 2019/11/16/2019

REV.	DATE	DESCRIPTION	SHT. NO.

DESIGNER: SRL	TOWN OF WESTBROOK
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CHECKED BY: MDE	
DATE CHECKED: 10/13/2019	

ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS	
APPROVED BY: _____	
DATE: 11/22/2019	

PROJECT TITLE:	SIDEWALK ENHANCEMENTS AND EXTENSIONS ALONG RTE. 1
CADD: 19-106-MPT.DWG	
PLOTTED: October 14, 2019	

DRAWING TITLE:	MAINTENANCE AND PROTECTION OF TRAFFIC
PROJECT NO.:	
DRAWING NO.:	

PROJECT NO.:	19-106
DRAWING NO.:	MT-01
SHEET NO.:	07

SOIL EROSION AND SEDIMENTATION CONTROL NARRATIVE

SECTION A: DEFINITION OF RESPONSIBLE PARTIES

1. Permittee: Shall mean the Owner, which is the Town of Westbrook
2. Site Monitor: Shall mean the person or firm assigned by the Owner to monitor adherence to the permit conditions.
3. General Contractor: Shall mean the construction firm responsible for the construction of the proposed improvements and implementation and maintenance of this Soil Erosion and Sedimentation Control Plan.
4. Engineer: Shall mean design engineer of record.

SECTION B: GENERAL NOTES

1. Prior to the start of each phase of construction, a pre-construction meeting involving representatives from the Commission, the Site Monitor, General Contractor, the Engineer and the Wetland Scientist will be held to review the site plans and procedures.
2. Field staking of improvements shall be completed prior to any disturbances of soil or vegetation by a Connecticut Licensed Land Surveyor and will include the following:
 - 2.1 Centerline of new construction features (sanitary manholes, access roadway, limits of clearing and siltation fencing)
 - 2.2 Establishment of reference bench marks
 - 2.3 Layout of grading grid (centerline and cross-sections)
 - 2.4 Limits of wetlands and watercourses
3. Land disturbance will be kept to a minimum; re-stabilization will be scheduled as soon as practical.
4. Silt fence will be installed along the toe of all critical cut and fill slopes, soil stockpile areas, and in those areas shown on the plans or as directed by the site Monitor or the owner.
5. Actual locations and the application of erosion control devices shall be determined in the field prior to the start of construction based on the erosion and sediment control strategy and criteria.
6. Limits of disturbance shall be flagged in the field and verified prior to initiation of construction.
7. Erosion and sediment control devices shall be installed during the construction period if necessary or required.
8. All graded areas not stabilized with stone slope protection with slopes steeper than 3 horizontal to 1 vertical shall be stabilized with an erosion control blanket.
9. When all surfaces are permanently stabilized, any remaining sediment and erosion control devices shall be removed and all trapped sediment shall be removed. All catch basin sumps shall be cleaned.
10. All construction activities shall comply with the "Town of Westbrook zoning regulations". Sediment removed from control structures will be disposed of in a manner that is consistent with Federal, State and Local Regulations.
11. Where construction activities have permanently ceased or have temporarily been suspended for more than seven days, or when final grades are reached in any portion of the site, stabilization practices shall be implemented within three days. Stabilization measures include seeding during the growing season or application of mulch during the winter months. Temporary seeding, or mulch for seed procedures described in the "Guidelines for Soil Erosion and Sediment Control. Handbook", 2002 or as amended shall be implemented for areas where work will resume within one year. When slopes are less than 3:1, wood chips, bark chips or shredded bark may be used. Surfaces where work will resume after one year shall implement the permanent seeding or mulch for seed measures outlined in "Guidelines for Soil Erosion and Sediment Control. Handbook", 2002 or as amended.
12. All erosion and sediment control measures shall be constructed in accordance with the standard and specifications of the State of Connecticut DEEP - "Guidelines for Soil Erosion and Sediment Control. Handbook", 2002 or as amended.
13. All control measures will be maintained in effective condition throughout the construction period.
14. Additional control measures will be installed during the construction period if necessary or required. A minimum of an additional 300 feet of silt fence shall be stored at the site for emergency use.
15. Before anticipated storm events, a minimum of once per week, and within 24 hours of a storm event 0.5 inches or greater, the Site Monitor shall inspect all erosion and sediment controls. The General Contractor is to repair, replenish or replacement erosion controls as directed by the Site Monitor in advance of the anticipated storm event.
16. Any excavations that must be dewatered will be pumped into an active drainage system or dispersed in an undisturbed field area. The inlets of all pumps are to be floated a minimum 24 inches off the bottom of the excavation. Pump discharges shall be controlled with a pump settling basin or portable sediment tank as described in the Guidelines for Soil Erosion and Sediment Control. Handbook, 2002 or as amended.
17. The General Contractor is responsible for dust control during the construction process. The Site Monitor shall inspect the site to assure dust is adequately controlled. If the Owners representative feels dust control measures are not adequate the contractor shall be required to increase these measures as directed by the owner.
18. Construction activities at the project site will result in emissions of fugitive dust to the atmosphere. The quantity of fugitive dust generated will be controlled but is dependent upon weather conditions. Fugitive dust particles have a greater propensity to become airborne during dry and breezy meteorological conditions. Construction activities at the site, which will result in the generation of fugitive dust, include grading, material loading and unloading, material storage piles and construction traffic. The contractor will implement the following reasonable precautions during construction to minimize the generation of fugitive dust:
 - Use water for dust control of active construction areas, active unpaved areas, and other surfaces, which can give rise to airborne dust. A typical practice to be followed during site grading will be to follow the earth moving equipment with a water truck to immediately wet the new disturbed area.
19. All heavy equipment storage, refueling, and minor maintenance is to take place no closer than 100 feet from a wetland or watercourse. See section C below.
20. The contractor shall clean/sweep daily all on-site paved roads which are used for the duration of the project by construction traffic. Institute a maximum on site speed limit of 10-miles per hour.
21. Debris and other wastes resulting from equipment maintenance and construction activities will not be discarded on-site.
22. Fill material shall be free of brush, rubbish, rocks, logs, stumps, building debris and other unsuitable materials that would interfere with or prevent construction of satisfactory fills.
23. When all graded areas are permanently stabilized, remove all erosion and sediment controls. Remove trapped sediment.
24. It shall be the responsibility of the General Contractor to ensure proper implementation of the soil erosion and sediment controls as shown on this plan; and shall include but not be limited to installation and maintenance of control measures. Informing all parties of such requirements and notification of any transfer of this responsibility to other parties.
25. Recommended seed mixture: Futura 2000 by the Chas. C. Hart containing the following varieties of perennial ryegrass: Cutter, Express, Edge and Fiesta III. And express. A seeding rate of 5-7 pounds per 1,000 square feet is recommended.
26. Apply seed for a vegetative cover on storage piles, especially those that will remain dormant for an extended period.
27. Dewatering procedures shall be conducted in a manner that insures no dewatering waste water is directly discharged into any wetland or waterbody. The measures shall be conducted in accordance with the dewatering plan submitted by the contractor as part of the contract documents.
28. Soil types where identified in the United States Department of Agriculture, Soil Conservation Service and field checked with soil borings and test pits.
29. A stormwater management system maintenance schedule shall be implemented and officially recorded by the Site Monitor. The schedule shall include as a minimum:
 30. All elements of the stormwater management system shall be inspected monthly.
 - monthly inspection of all stormwater structures and outfalls shall be conducted for floating or surface debris or sediment.
 31. Structures and outfalls shall be cleaned of sediment and debris at least once a year during the month of April and at other times as necessary to prevent the discharge of pollutants from structures or outfalls.
 32. All parking areas, sidewalks, driveways, and other impervious areas (except roofs) shall be swept clean of sand, litter and other possible pollutants at least twice a year, once between November 14 and December 15 (after leaf fall) and once during the month of April (after snow melt) and at other times as directed by the Town of Westbrook.
 33. The General Contractor, as agent for the Owner, is assigned the responsibility for implementing this erosion and sediment control plan. This responsibility includes installation and maintenance of control measures, informing all parties engaged on the construction site of the requirements and objectives of the plan, notifying the planning and wetlands commissions of any transfer of this responsibility and for conveying a copy of the Soil Erosion and Sedimentation Control Plan, if and when the title of land is transferred.
 34. To minimize potential soil erosion impacts, site work should occur when soils are not seasonally saturated (eg. minimize soil disturbance in late spring). Work in and around the vernal pools should be avoided during the amphibian breeding season.
 35. The functional completion of the stormwater detention systems or sediment basins shall precede site development of areas, roads, or lots contributing to these systems.

SECTION C: SOIL AND CHEMICAL SPILL RESPONSE PROVISIONS

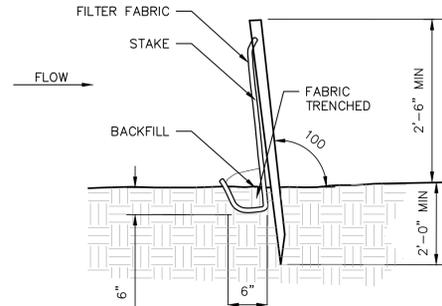
1. The contractor must have at least 30 feet of clean, unused, absorbent spill response blanket available onsite at all times. The width of the blanket shall be at least 36 inches.
2. The following actions shall be taken simultaneously should a spill occur:
 - 2.1 Immediately notify the following parties, stating location of spill, estimated amount of material spilled, type of material spilled, and the status of the spill:
 - 2.1.1 Connecticut Department of Environmental Protection Oil and Chemical Spills Unit: (860) 566-3338.
 - 2.1.2 Connecticut Department of Health Services (860) 566-1253 (Monday - Friday: 8:00 am to 4:30 pm) Or (860) 566-4800 (for all other times).
 - 2.1.2 Westbrook Fire Department (860) 399-9492
 - 2.2 Contain and/or remove the spilled material using on-site spill response equipment (e.g. Booms, blankets, etc.)
 3. No refueling, servicing or overnight storage of vehicles or machinery shall be allowed within 100 feet of any watercourse. Refueling will be done on an impervious surface. Absorbent spill blanket material will be placed next to the refueling activity to be used to contain and remove any potential spillage.
 4. Storage of oil, gasoline, paint, or other hazardous material shall not be allowed within 100 feet of any watercourse.
 5. Secondary containment shall be provided for all oil, paint, gasoline or other hazardous material containers.
 6. The discharge from all water-cooled saws shall be contained in such a manner to prevent the discharge from entering any watercourse.

SECTION D: POST CONSTRUCTION MAINTENANCE SCHEDULE

IMPERVIOUS SURFACE SWEEPING (ROADWAY AND SIDEWALKS): VACUUM SWEEP SURFACES ANNUALLY BETWEEN 4/1 AND 5/1, OR AS NEEDED.

MAINTENANCE OF OUTFALLS: INSPECT TWICE A YEAR FOR DEBRIS, LEAVES, SEDIMENT, ETC. CLEAN AS NEEDED.

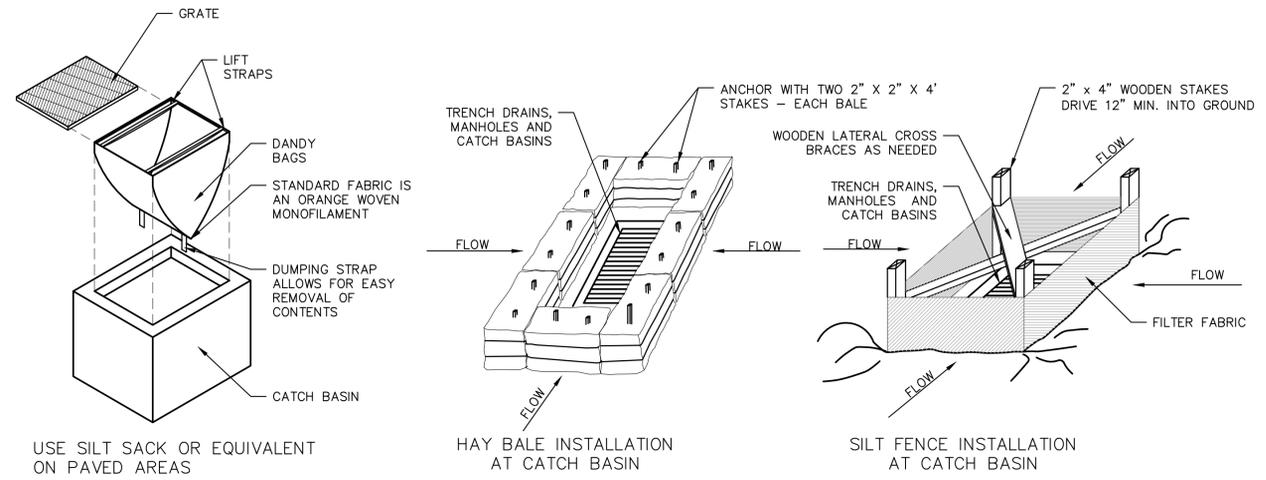
CATCH BASIN SUMP CLEANING: INSPECT TWICE A YEAR FOR SEDIMENT. CLEAN AS NEEDED.



- A) MINIMUM LENGTH OF SILT FENCE IS 15 LF.
- B) MAXIMUM POST SPACING IS 8'-0". JOINTS ONLY AT SUPPORT POST WITH MINIMUM 2' OVERLAP, SECURELY SEALED.
- C) SEDIMENTATION DEPOSITS SHALL BE REMOVED WHEN THEY REACH 1/2 THE HEIGHT OF THE SILT FENCE.
- D) SILT FENCE SHALL NOT BE USED IN A WATER COURSE.
- E) UPON ESTABLISHMENT OF GROUND COVER ON DISTURBED AREAS, AND WHEN DIRECTED BY THE ENGINEER, FENCE WILL BE REMOVED AND ANY SEDIMENTATION WILL BE THINLY SPREAD UPON EXISTING GROUND COVER.
- F) PERPENDICULAR SILT FENCE WINGS MUST BE INSTALLED AT THE FOLLOWING INTERVALS TO REDUCE WATER VELOCITY ALONG THE FACE OF THE SILT FENCE: (SEE 2002 DEP GUIDELINES)

SLOPE STEEPNESS	SLOPE LENGTH & WING SPACING
5:1 OR FLATTER	100 FEET
3:1 TO 5:1	75 FEET
2:1 TO 3:1	50 FEET

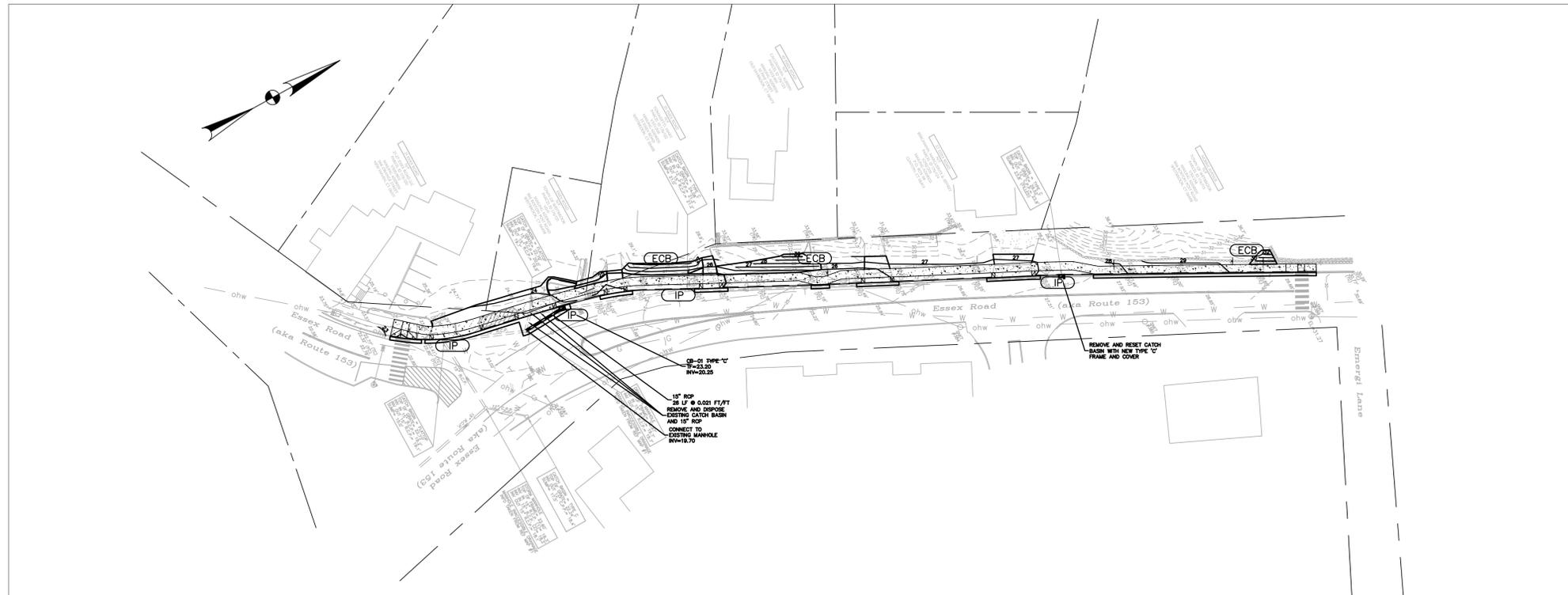
1 GEO-TEXTILE SILT FENCE
NTS



2 INLET PROTECTION
NTS

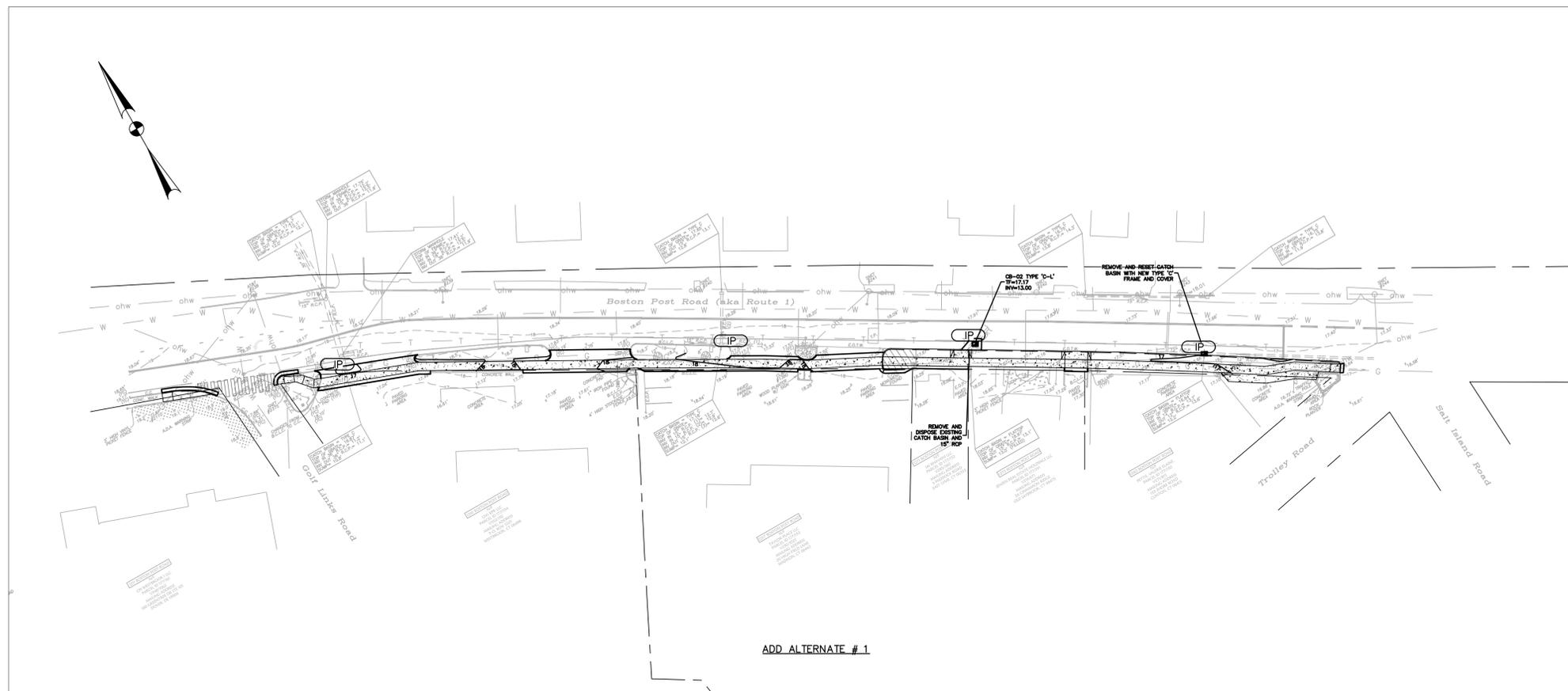
Rev. 01, 2019 - 11/16/2019
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mwh/abj

DESIGNER: SRL	TOWN OF WESTBROOK		PROJECT TITLE:	DRAWING TITLE:	PROJECT NO.:
DRAFTER: SRL			SIDEWALK ENHANCEMENTS AND EXTENSIONS ALONG RTE. 1		SEDIMENT AND EROSION CONTROL DETAILS
CHECKED BY: MDE	ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS		CADD: 19-108-SE.DWG		DRAWING NO.:
DATE CHECKED: 10/13/2019	APPROVED BY:		PLOTTED: October 14, 2019		ES-1
					SHEET NO.:
					08



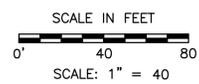
LEGEND
REFER TO 2002 CT GUIDELINES FOR SOIL EROSION
AND SEDIMENT CONTROL FOR DETAILS.

- IP INLET PROTECTION
- ECB EROSION CONTROL BLANKET



ADD ALTERNATE # 1

REV.	DATE	DESCRIPTION	SHT. NO.



DESIGNER: SRL
DRAFTER: SRL
CHECKED BY: MDE
DATE CHECKED: 10/13/2019

TOWN OF WESTBROOK

ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS
APPROVED BY: _____
DATE: 11/22/2019

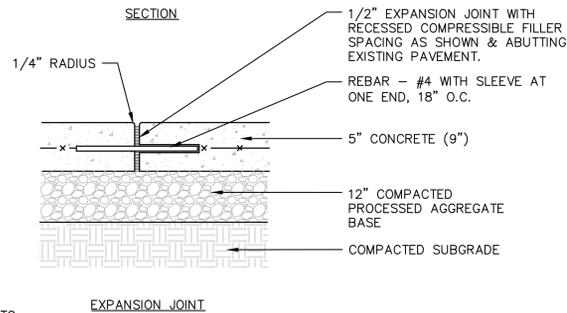
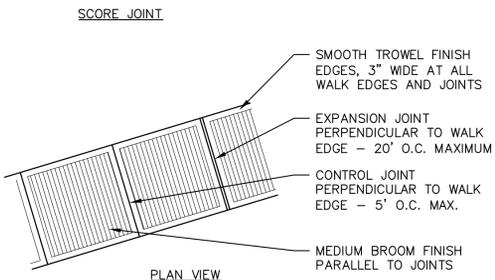
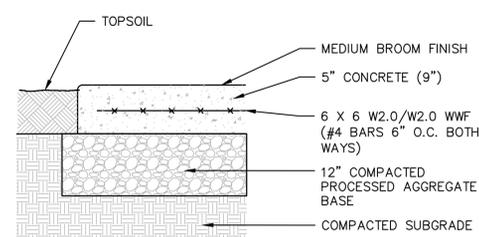
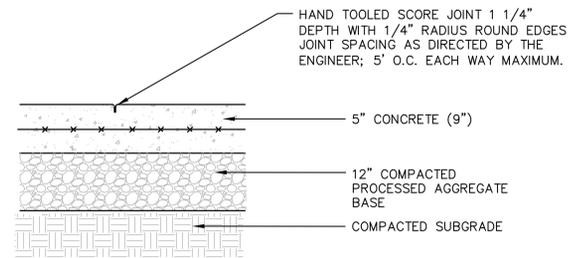


PROJECT TITLE:
**SIDEWALK ENHANCEMENTS AND
EXTENSIONS ALONG RTE. 1**
CADD: 19-106-SE.DWG
PLOTTED: October 14, 2019

DRAWING TITLE:
**SEDIMENT AND EROSION
CONTROL PLAN**

PROJECT NO.:
19-106
DRAWING NO.:
ES-2
SHEET NO.:
09

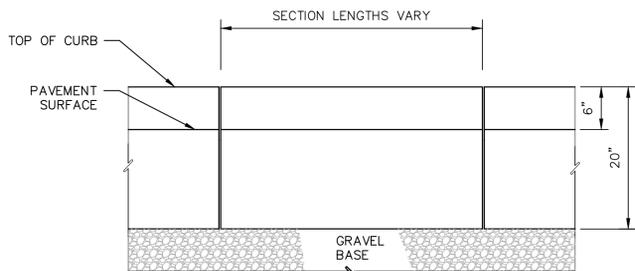
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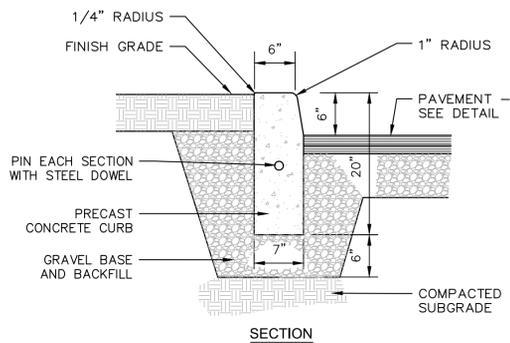
NOTE:
NUMBERS IN PARENTHESIS REFER TO
HEAVY DUTY CONCRETE SIDEWALK @
DRIVEWAYS & FIRELANES

1 CONCRETE SIDEWALK

NTS



ELEVATION

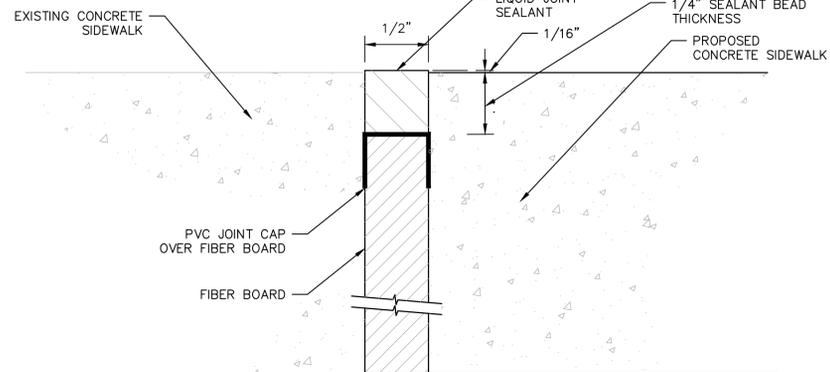


SECTION

NOTES:
1. REFER TO DRAWINGS FOR LOCATIONS OF CORNER, RADIUS AND
TRANSITION END SECTIONS.
2. PLACE 1/2" PREFORMED EXPANSION JOINT MATERIAL BETWEEN
CURB SECTIONS AT 24' MAXIMUM INTERVALS AND WHERE
DIRECTED BY THE ENGINEER.

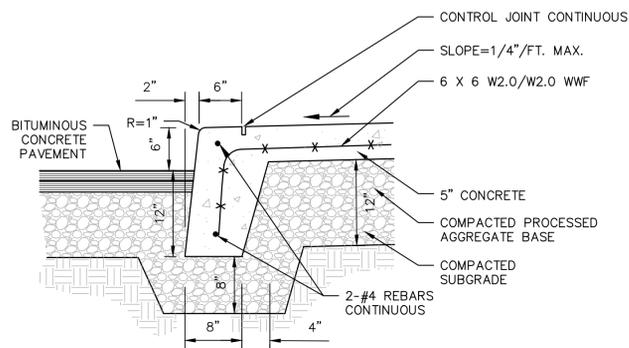
2 PRECAST CONCRETE CURBING (BASE BID)

NTS



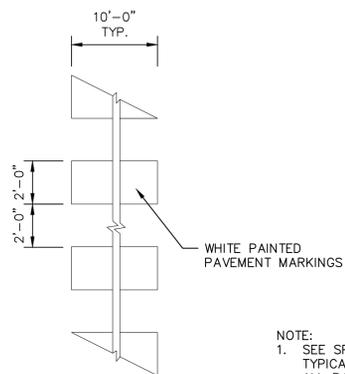
3 TYPICAL JOINT SEAL AT EXISTING SIDEWALK DETAIL

NTS



4 INTEGRAL CONCRETE CURB AND SIDEWALK

NTS

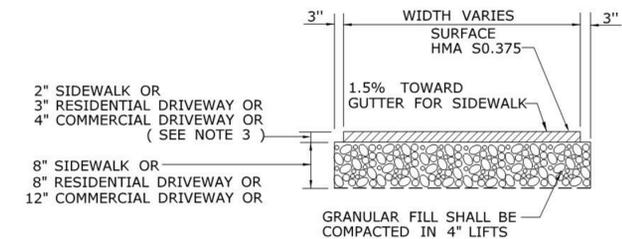


PLAN - CROSSWALK MARKINGS

NOTE:
1. SEE SPECIFICATIONS FOR
TYPICAL LINE PAINT FOR
ALL PAVEMENT MARKINGS.

5 CROSSWALK MARKING

NTS



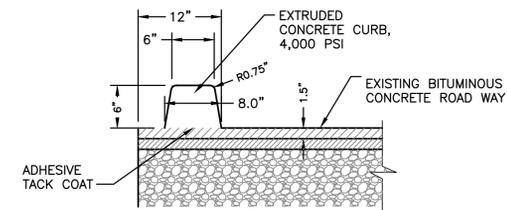
**TYPICAL SECTION
BITUMINOUS CONCRETE
SIDEWALK AND DRIVEWAY**

GENERAL NOTES:

1. DRIVEWAY ENTRANCE SHALL BE A MINIMUM OF 12' WIDE, EXCLUDING CURBING WHEN PRESENT.
2. WELDED WIRE FABRIC MATS WITH REINFORCING AT CLOSER SPACING MAY BE USED.
3. SURFACE HMA S0.375 TO BE PLACED IN TWO EQUAL LIFTS FOR BOTH RESIDENTIAL AND COMMERCIAL DRIVEWAYS.

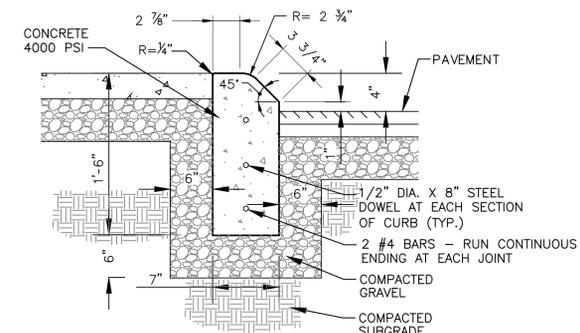
6 BITUMINOUS CONCRETE PAVEMENT

NTS



7 EXTRUDED CONCRETE CURB (ALT. 1)

NTS



8 CONCRETE MOUNTABLE CURB

NTS

REV.	DATE	DESCRIPTION	SHT. NO.

DESIGNER:	SRL
DRAFTER:	SRL
CHECKED BY:	MDE
DATE CHECKED:	10/13/2019

TOWN OF WESTBROOK	
ENGINEER:	DIVERSIFIED TECHNOLOGY CONSULTANTS
APPROVED BY:	DATE: 11/22/2019

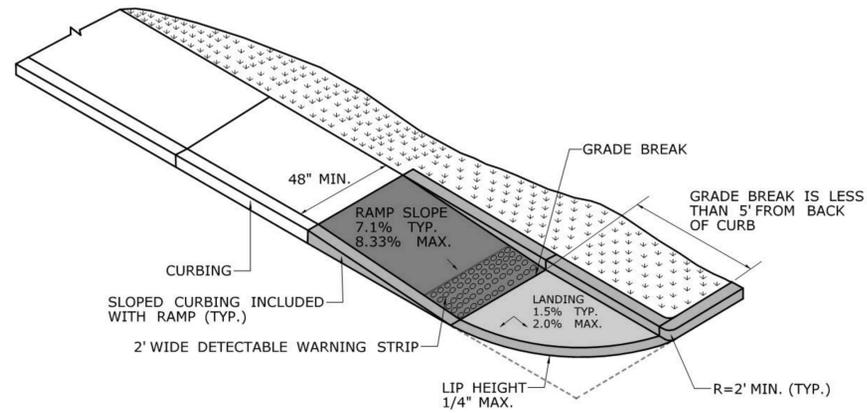


PROJECT TITLE:	SIDEWALK ENHANCEMENTS AND EXTENSIONS ALONG RTE. 1
CADD:	19-106-DT.DWG
PLOTTED:	October 14, 2019

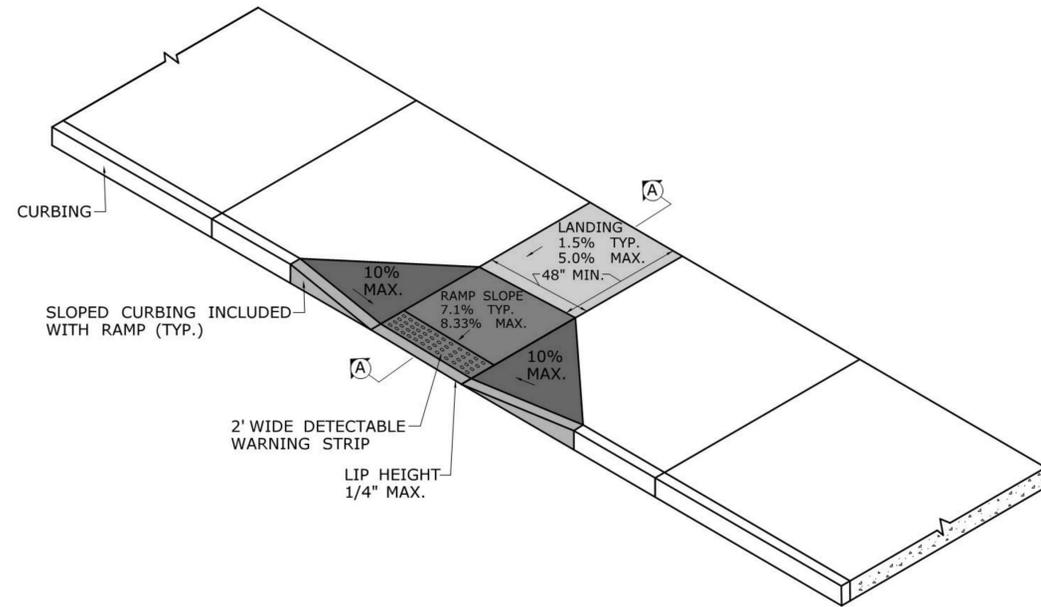
DRAWING TITLE:	MISCELLANEOUS DETAILS
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PROJECT NO.:	19-106
DRAWING NO.:	MDS-01
SHEET NO.:	10

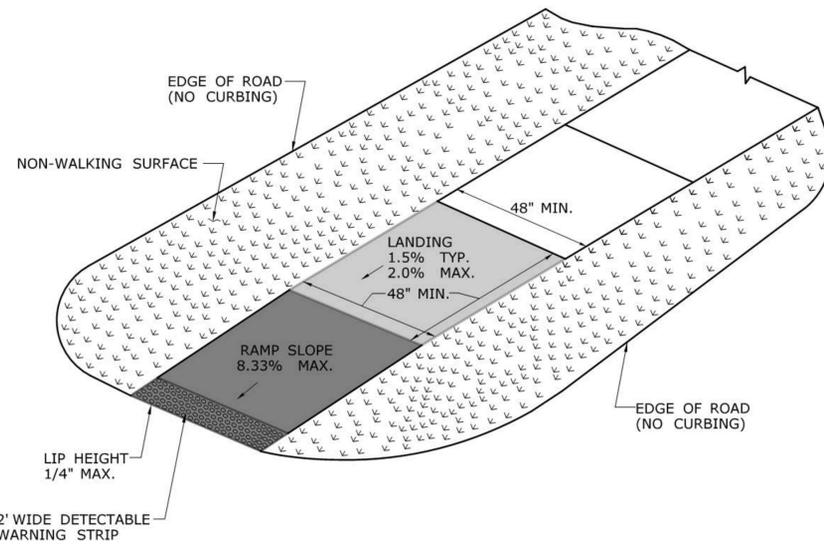
Nov 01, 2019 - 11:47am
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 sml\jld\jld



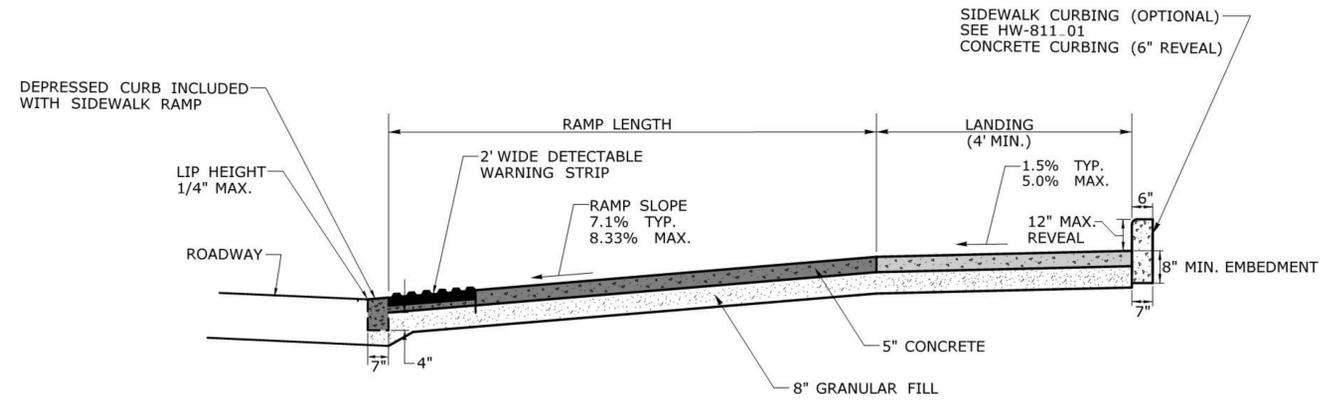
**SINGLE DIRECTION RAMP
WITHOUT NON-WALKING SURFACE
GRADE BREAK LESS THAN 5'
(TYPE 15)**



**PERPENDICULAR
SIDEWALK RAMP**



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



SECTION AA

2 PERPENDICULAR SIDEWALK RAMPS
NTS

1 SINGLE DIRECTION SIDEWALK RAMPS
NTS

Rev. 01, 2019 - 11/17/19
 PA 2019 Code of Ordinances 119.006 - Sidewalk Enhancements 106 - Call to Current 119-106-01.dwg
 2/20/2019

REV.	DATE	DESCRIPTION	SHT. NO.

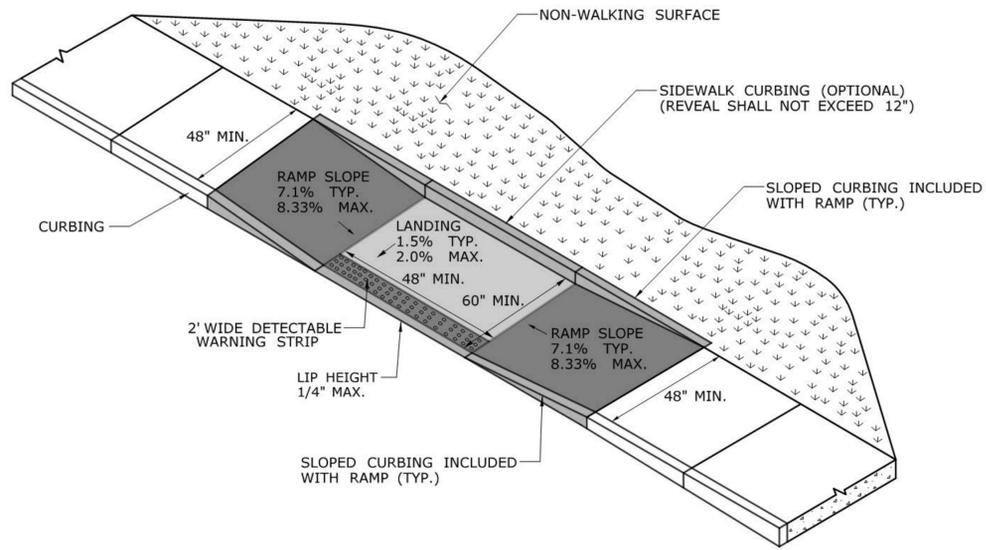
DESIGNER: SRL	TOWN OF WESTBROOK  <small>2321 Whiskey Avenue - Hamden Center • Hamden, CT 06518 Ph: 203.234.4300 Fax: 203.234.7379 www.dtcinc.com</small>
DRAFTER: SRL	
CHECKED BY: MDE	
DATE CHECKED: 10/13/2019	

ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS	APPROVED BY:
DATE: 11/22/2019	

PROJECT TITLE: SIDEWALK ENHANCEMENTS AND EXTENSIONS ALONG RTE. 1
CADD: 19-106-DT.DWG
PLOTTED: October 14, 2019

DRAWING TITLE: MISCELLANEOUS DETAILS
--

PROJECT NO.: 19-106
DRAWING NO.: MDS-02
SHEET NO.: 11



**PARALLEL RAMP WITHOUT
NON-WALKING SURFACE
(TYPE 9)**

1 PARALLEL SIDEWALK RAMP
NTS

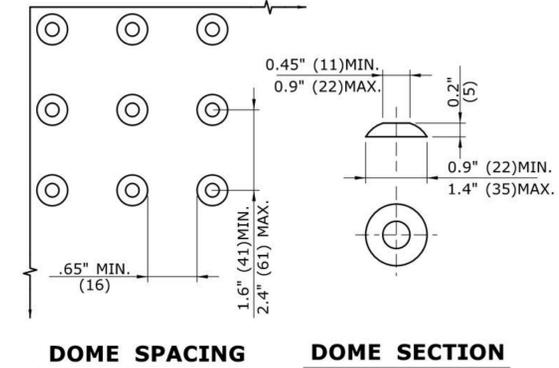
GENERAL NOTES:

1. MAXIMUM SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK RAMP SHOULD NOT EXCEED 5%. THE MAXIMUM GRADE DIFFERENCE BETWEEN THE GUTTER AND CURB RAMP SHALL NOT EXCEED 13%. SEE DETAIL 1 ON SHEET 4.
2. RAMP GRADE SHALL BE UNIFORM, FREE OF SAGS AND ABRUPT GRADE CHANGES. RUNNING SLOPES OF RAMPS SHALL NOT EXCEED 8.33% AND SHALL NOT EXCEED 15' (4.5m) WITHOUT PROVIDING A LANDING.
3. ALL RAMPS SHALL BE CONSTRUCTED OF CLASS "F" CONCRETE IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
4. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. THE SURFACE OF ALL SIDEWALK RAMPS SHALL BE STABLE, FIRM AND SLIP RESISTANT. SURFACE DISCONTINUITIES SHALL NOT EXCEED 1/2" (13) MAX. VERTICAL DISCONTINUITIES BETWEEN 1/4" (6.4) AND 1/2" (13) MAX. SHALL BE BEVELED 1:2 MINIMUM APPLIED ACROSS THE ENTIRE LEVEL CHANGE.
5. DIAGONAL SIDEWALK RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES. DIAGONAL AND PERPENDICULAR RAMPS SHALL HAVE THE RAMP CUT PERPENDICULAR TO THE TANGENT OF THE CURB RADIUS FOR THE DESIGNATED ACCESSIBLE ROUTE. BOTH LONGITUDINAL SIDES OF THE RAMP SHOULD BE THE SAME LENGTH. SKEWED RAMPS SHOULD BE AVOIDED. FLARES ARE NOT CONSIDERED PART OF PEDESTRIAN ACCESS ROUTE. DIAGONAL RAMPS SHOULD NOT BE INSTALLED WHERE CURB RADII IS LESS THAN 20'(6096).
6. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT. 8.3% MAXIMUM SLOPE MAY NOT BE ACHIEVABLE DUE TO EXISTING SIDEWALK GRADE. IN RECOGNITION OF THIS, A LIMIT OF 15' (4572) FOR REMOVAL SHALL BE USED UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. SAW CUT REQUIRED FOR DUMMY JOINTS SHALL BE INCLUDED IN THE COST OF "CONCRETE SIDEWALK RAMP" OR "CONCRETE SIDEWALK".
7. EXPANSION JOINTS IN CONCRETE SHALL MATCH THOSE IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 12' (3658) UNLESS OTHERWISE NOTED.
8. CONCRETE SIDEWALK RAMPS, SHALL BE PAID FOR UNDER THE ITEM "CONCRETE SIDEWALK RAMP", AS DEFINED BY THE CONSTRUCTION LIMITS ON THE PLANS AND SHALL BE FIELD VERIFIED.
9. SIDEWALK RAMPS SHALL BE CONSTRUCTED WITH THE TOE AT THE GUTTER CAST INTEGRALLY WITH RAMP UNLESS DIRECTED OTHERWISE BY THE ENGINEER (SEE TYPICAL SECTION ON SHEET 3). CURB REMOVAL AND CAST IN PLACE CURBING REQUIRED FOR THE RAMP, SHALL BE INCLUDED WITH PAY ITEM "CONCRETE SIDEWALK RAMP". CURBING OUTSIDE LIMITS OF RAMP OR LANDING SHOWN ON SHEET 3 SHALL BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
10. PREFERRED LOCATION TO INSTALL DETECTABLE WARNING STRIP SHALL BE 6" (152) FROM THE EDGE OF ROAD ALONG THE FULL WIDTH OF THE RAMP. FOR ALTERNATE LOCATIONS, REFER TO DETECTABLE WARNING PLACEMENT DETAILS ON SHEET 4.
11. TO PERMIT WHEELCHAIR WHEELS TO ROLL BETWEEN DOMES, ALIGN DOMES ON A SQUARE GRID IN THE DIRECTION OF RUNNING SLOPE (PERPENDICULAR TO CURB OR SLOPE BREAK). THE TRANSITION FROM RAMP TO GUTTER SHALL BE FLUSH WITHOUT A LIP.
12. WHERE COMMERCIAL DRIVEWAYS ARE PROVIDED WITH TRAFFIC SIGNALS AND THE SIDEWALK IS CONTINUOUS THROUGH DRIVEWAY, DETECTABLE WARNINGS ARE REQUIRED AT THE JUNCTION BETWEEN THE PEDESTRIAN ROUTE AND DRIVEWAY.
13. CONSTRUCT A SIDEWALK CURB WHEN THERE IS INSUFFICIENT BUFFER AVAILABLE TO GRADE OR WHEN CALLED FOR IN PLANS. PAID FOR WITH SIDEWALK RAMP WHEN REQUIRED FOR RAMP.
14. THE TOP AND BOTTOM OF RAMPS SHOULD BE PROVIDED WITH A 4' x 4' (1219 x 1219) MINIMUM LEVEL LANDING AREA WITH A CROSS SLOPE LESS THAN OR EQUAL TO 2% IN ANY DIRECTION.
15. UTILITY POLES, LUMINAIRE, PEDESTRIAN OR SIGNAL POLES, GRATES, ACCESS COVERS, AND OTHER APPURTENANCES SHALL NOT BE LOCATED ON RAMPS, LANDINGS, BLENDED TRANSITIONS, AND @ GUTTERS WITHIN THE PEDESTRIAN ACCESS ROUTE.
16. APPROACH SIDEWALK WIDTHS, GRASS STRIP OR UTILITY STRIP WIDTHS MAY VARY.
17. APPROACH SIDEWALK AND LANDING CROSS SLOPE SHALL NOT EXCEED 2%.
18. THE RUNNING OR CROSS SLOPES ON LANDINGS AT MID BLOCK CROSSING MAY BE WARPED TO MEET STREET OR HIGHWAY GRADE.
19. FOR PERPENDICULAR CURB RAMPS A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE TOP OF CURB RAMP. WHERE THE LEVEL LANDING IS RESTRICTED AT THE BACK OF SIDEWALK THE LEVEL LANDING SHALL BE 4'(1.2m) x 5'(1.5m) WITH THE 5'(1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE RAMP RUN.
20. FOR PARALLEL CURB RAMPS, A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE BOTTOM OF CURB RAMP. IF THE LEVEL LANDING IS RESTRICTED ON 2 OR MORE SIDES, THE LEVEL LANDING SHALL BE 4'(1.2m) x 5'(1.5m) WITH THE 5'(1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.
21. WHEN WIDTH OF SIDEWALK IS >48" AND A PERPENDICULAR SIDEWALK RAMP IS INSTALLED, THE FLARED SIDES SHALL BE 10% MAX. IF WIDTH OF SIDEWALK IS <48" THE FLARED SIDES MUST NOT EXCEED 8.33% (12:1).
22. SHADED AREAS ARE TYPICAL PAY LIMITS FOR CONCRETE SIDEWALK RAMP BUT, MAY VARY AS DIRECTED BY THE ENGINEER.
23. OPTIONAL RAMP, WHEN REQUIRED, SHALL BE PAID FOR AS PART OF CONCRETE SIDEWALK RAMP.

2 SIDEWALK RAMP NOTES
NTS

GENERAL NOTES:

1. RAMPED MEDIANS SHALL HAVE A CURB RAMP AT EITHER END AND LEVEL LANDING A MINIMUM OF 5' x 5' (1.5m x 1.5m) IN BETWEEN. CUT-THROUGH MEDIANS SHALL BE A MINIMUM OF 6' (1.8m) LONG AND 5' (1.5m) WIDE. FOR ALL MEDIANS, CUT-THROUGH OR RAMPED, A 2' (610) STRIP OF DETECTABLE WARNINGS SHALL BE INSTALLED AT THE ENTRANCE AND EXIT.
2. SEE GENERAL NOTES ON SHEET 1.

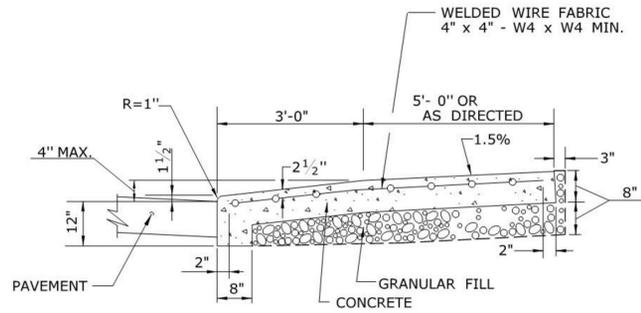


STANDARD DOME ON DETECTABLE WARNING TILES

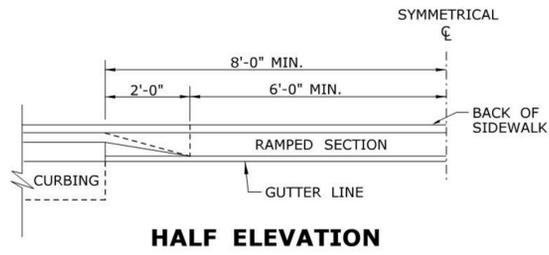
3 DETECTABLE WARNINGS
NTS

Rev. 01, 2019 - 11/17/19
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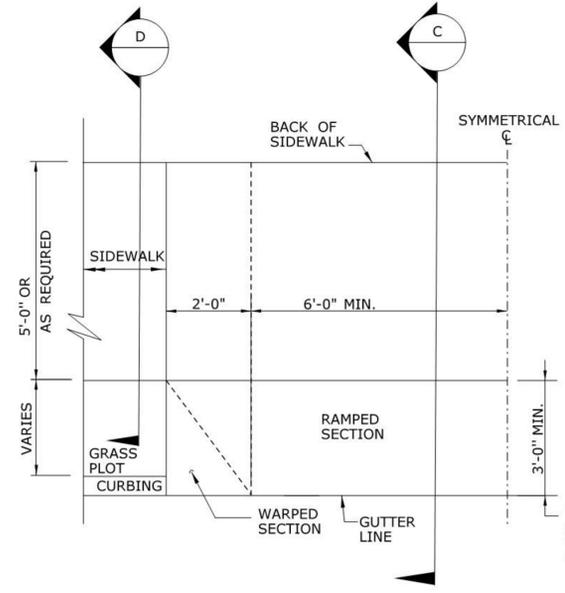
DESIGNER: SRL		TOWN OF WESTBROOK		PROJECT TITLE:	DRAWING TITLE:	PROJECT NO.:
DRAFTER: SRL				SIDEWALK ENHANCEMENTS AND EXTENSIONS ALONG RTE. 1	MISCELLANEOUS DETAILS	19-106
CHECKED BY: MDE		ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS	CADD: 19-106-DT.DWG	DRAWING NO.:	MDS-03	
DATE CHECKED: 10/13/2019		APPROVED BY:	PLOTTED: October 14, 2019	SHEET NO.:	12	
REV.	DATE	DESCRIPTION	SHT. NO.			



SECTION C

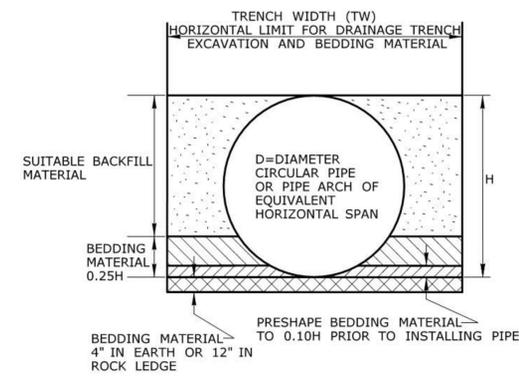


HALF ELEVATION

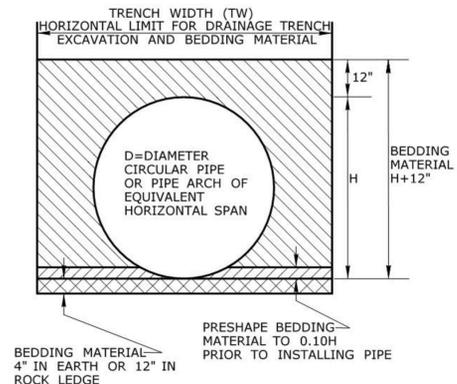


HALF PLAN OF CONCRETE DRIVEWAY RAMP WHERE CURB IS SEPARATED FROM SIDEWALK BY GRASS PLOT

1 CONCRETE DRIVEWAY RAMP
NTS



PIPE TRENCH FOR PIPES LESS THAN 48"

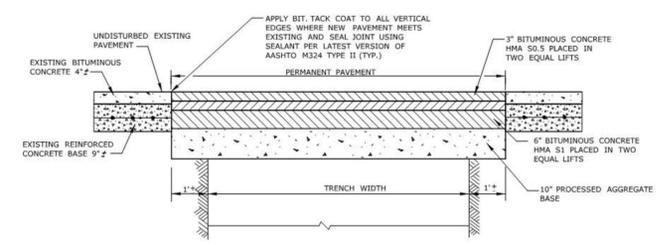


PIPE TRENCH FOR PIPES GREATER THAN OR EQUAL TO 48"

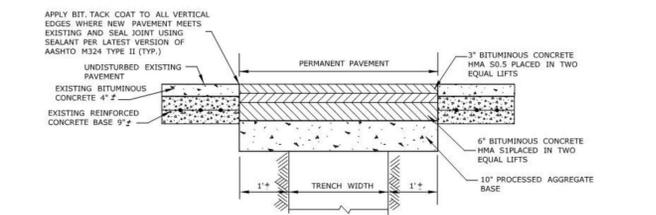
TRENCH WIDTH (TW) CHART

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

2 PIPE TRENCH DETAILS
NTS

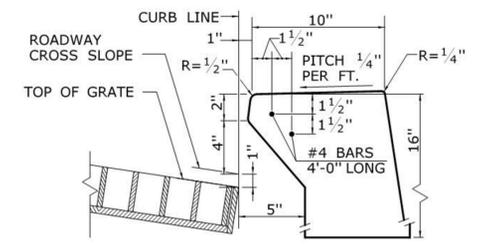


PERMANENT PAVEMENT TRENCH DETAIL TRENCHES PERPENDICULAR TO EDGE OF PAVEMENT



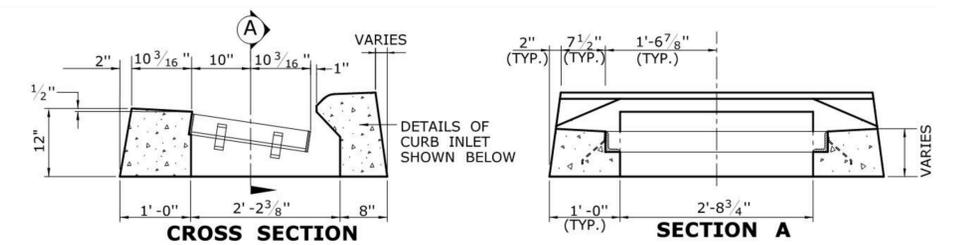
PERMANENT PAVEMENT TRENCH DETAIL TRENCH PARALLEL TO EDGE OF PAVEMENT

3 PERMANENT PAVEMENT RESTORATION
NTS

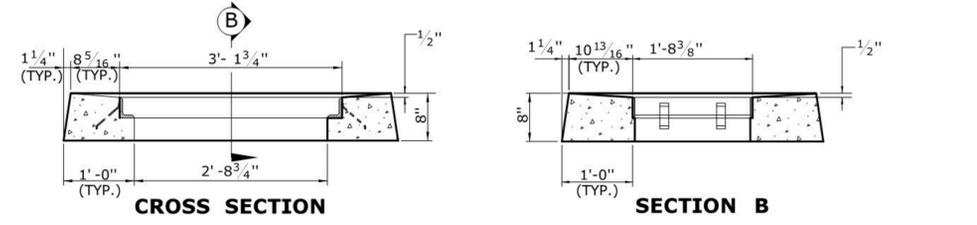


INLET WITH 6" CONCRETE OR STONE CURBING FOR TYPE "C" CB

GENERAL NOTES:
1. FOR DETAILS OF FRAMES AND GRATES, SEE DRAWING NO. DGS-08.
2. ALL BARS SHALL HAVE A MINIMUM 2" COVER.

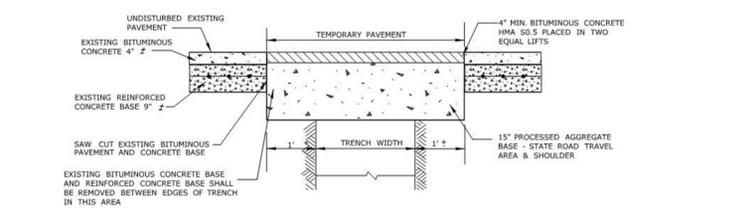


CROSS SECTION TYPE "C" CATCH BASIN TOP

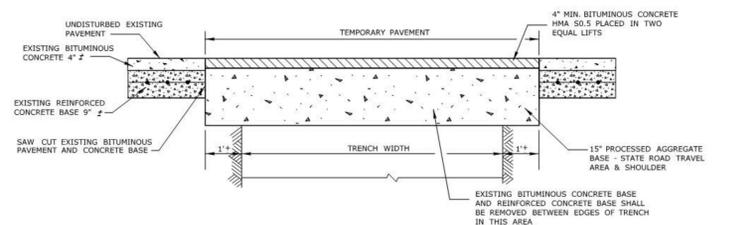


CROSS SECTION TYPE "C-L" CATCH BASIN TOP

4 CATCH BASIN TOPS
NTS



TEMPORARY PAVEMENT DETAIL TRENCH PARALLEL TO EDGE OF PAVEMENT



TEMPORARY PAVEMENT DETAIL TRENCHES PERPENDICULAR TO EDGE OF PAVEMENT

5 TEMPORARY PAVEMENT RESTORATION
NTS

New 01-2019 - 11/17/19
PA 2019 Case of Westbrook Edwark Enhancement 108 - Call@Current 1/18-1/18-1/17/19
mshahid

REV.	DATE	DESCRIPTION	SHT. NO.

DESIGNER:	SRL
DRAFTER:	SRL
CHECKED BY:	MDE
DATE CHECKED:	10/13/2019

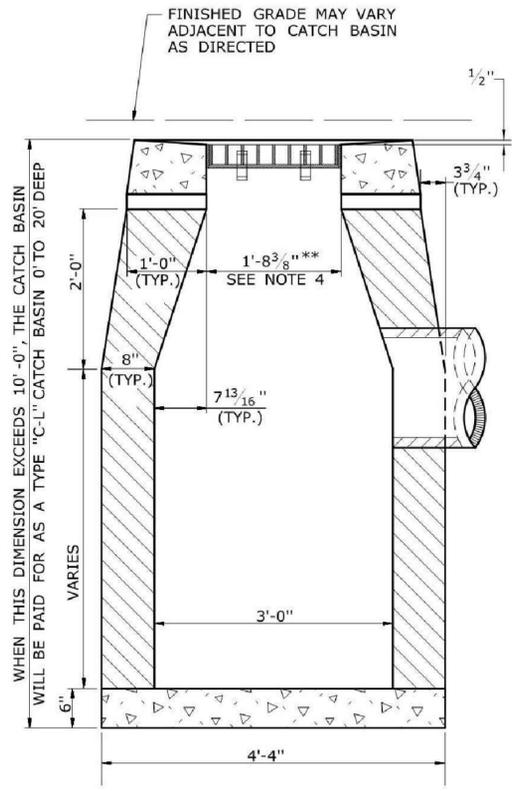
TOWN OF WESTBROOK	
ENGINEER:	DIVERSIFIED TECHNOLOGY CONSULTANTS
APPROVED BY:	DATE: 11/22/2019



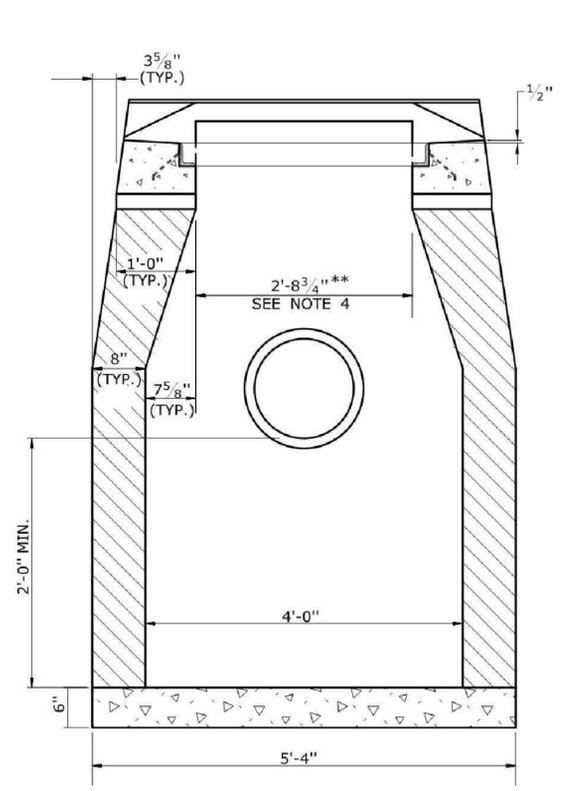
PROJECT TITLE:	SIDEWALK ENHANCEMENTS AND EXTENSIONS ALONG RTE. 1
CADD:	19-106-DT.DWG
PLOTTED:	October 14, 2019

DRAWING TITLE:	MISCELLANEOUS DETAILS
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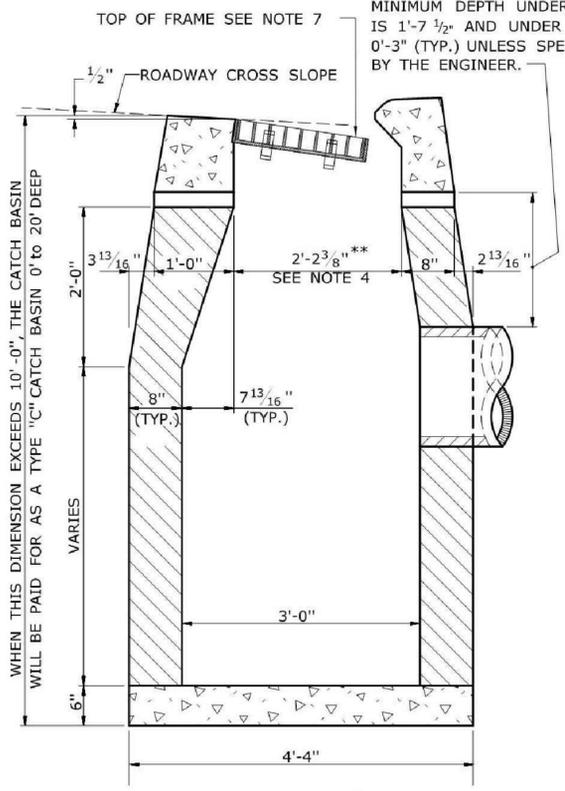
PROJECT NO.:	19-106
DRAWING NO.:	MDS-04
SHEET NO.:	13



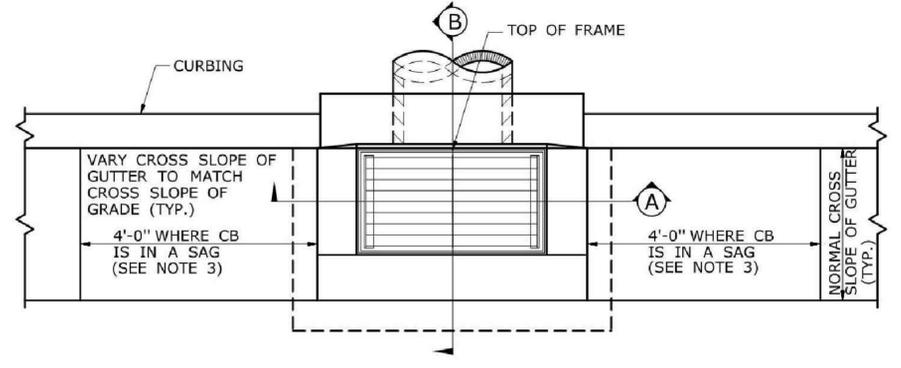
SECTION B
TYPE "C-L" CATCH BASIN



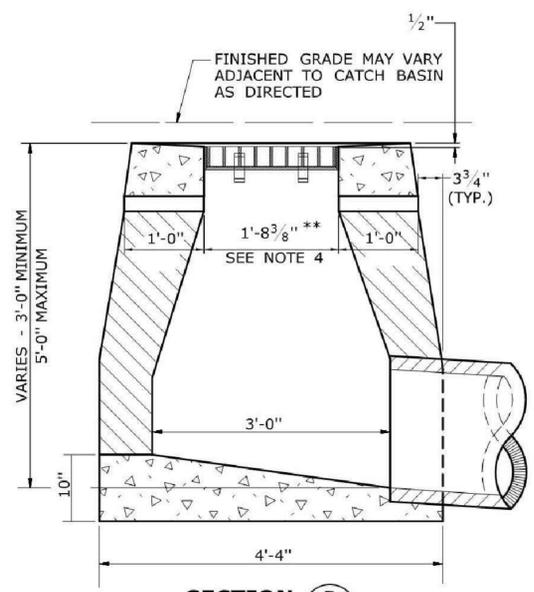
SECTION A
**TYPE "C" & "C-L" CATCH BASIN
(TYPE "C" TOP SHOWN)**



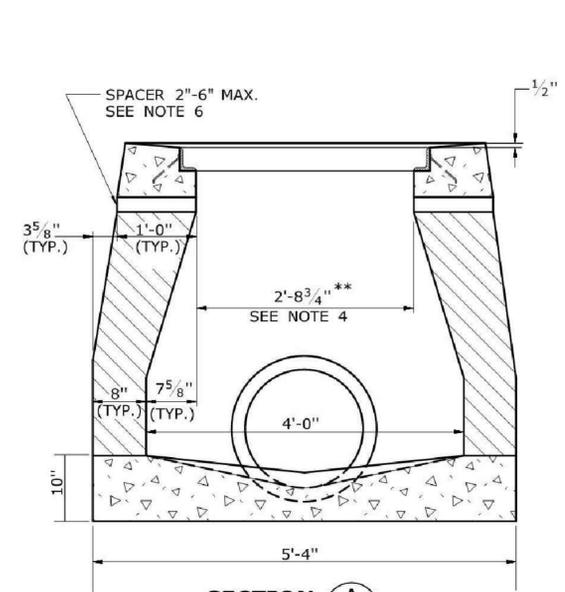
SECTION B
TYPE "C" CATCH BASIN



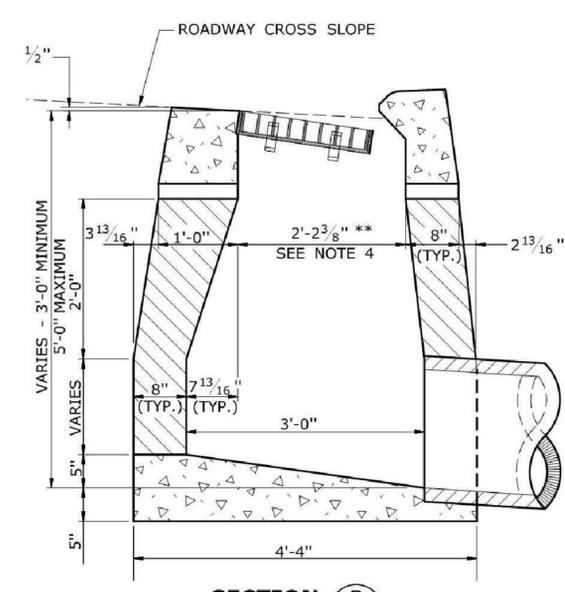
PLAN
CATCH BASINS IN A LINE WITH 4" CONCRETE PARK CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING



SECTION B
TYPE "C-L" DROP INLET

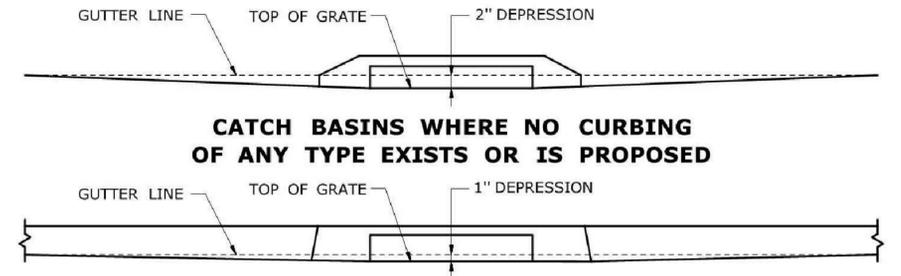


SECTION A
**TYPE "C" & "C-L" DROP INLET
(TYPE "C-L" TOP SHOWN)**

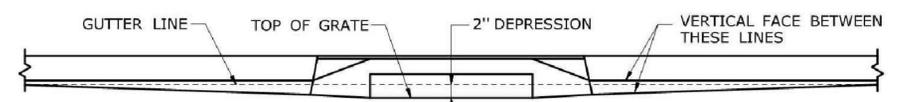


SECTION B
TYPE "C" DROP INLET

CATCH BASINS WHERE NO CURBING OF ANY TYPE EXISTS OR IS PROPOSED



CATCH BASINS IN A LINE WITH 6" CONCRETE CURBING OR 6" STONE CURBING



CATCH BASINS IN A LINE WITH 6" BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)

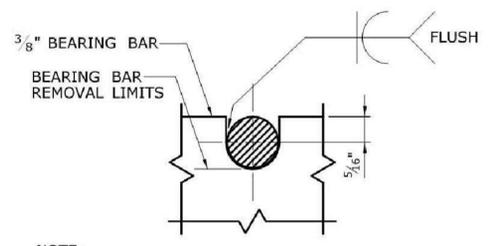
DETAILS OF DEPRESSED GUTTER STRIP FOR TYPE "C" CATCH BASIN

GENERAL NOTES:
1. FOR CATCH BASIN TOPS, SEE DRAWING NO. DGS-07.
2. ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL.
3. USE 6'-0" ON UPGRADE SIDE (SEE PLAN VIEW) OF CONTINUOUS GRADE AND 1'-0" ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED BY THE ENGINEER.
4. IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE DIMENSIONS SHOWN. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3". NO PROJECTION SHALL EXTEND INSIDE THE LIMITS FOR THE CATCH BASIN OPENINGS SHOWN IN THE SECTION VIEWS **.
5. WALL THICKNESS OF ALL CATCH BASINS OVER 10' DEEP SHALL BE INCREASED TO 12" THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. 12" THICKNESS SHALL START AFTER THE FIRST 10'.
6. SPACERS CAN BE EITHER CONCRETE MASONRY UNIT OR PRECAST WITH THE REQUIRED REINFORCING (RECOMMENDED BY THE MANUFACTURER) AS NEEDED TO PROVIDE THE PROPER GRADE SHOWN ON THE PLANS.
7. TOP OF FRAME ELEVATION SHALL BE MEASURED IN THE CENTER OF GRATE AT GUTTER LINE.

1 CATCH BASINS
NTS

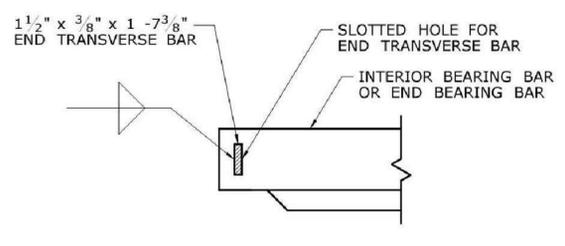
Rev. 01 - 2019 - 11/17/19
PA 2019, Copy of Workbook 108 - CatchBasin (19-106-DT.dwg)
10/13/2019
108 - CatchBasin (19-106-DT.dwg)

DESIGNER: SRL	TOWN OF WESTBROOK		PROJECT TITLE:	MISCELLANEOUS DETAILS	PROJECT NO.:
DRAFTER: SRL			SIDEWALK ENHANCEMENTS AND EXTENSIONS ALONG RTE. 1		19-106
CHECKED BY: MDE			ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS		DRAWING NO.:
DATE CHECKED: 10/13/2019			APPROVED BY:		MDS-05
DESCRIPTION	REVISIONS	SHT. NO.	CADD: 19-106-DT.DWG		SHEET NO.:
			PLOTTED: October 14, 2019		14

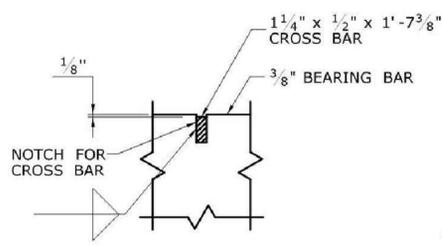


NOTE:
5/8" DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

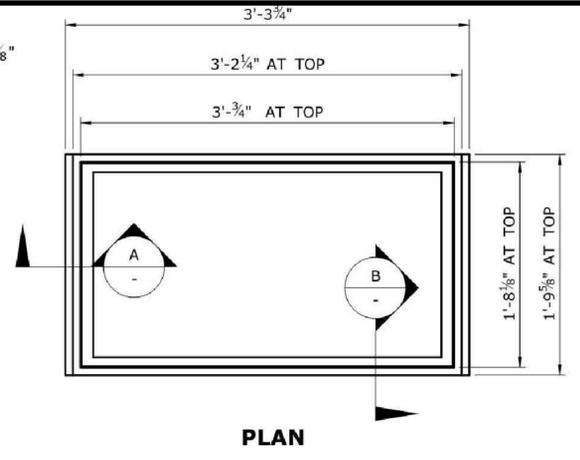
**ROUND BAR ATTACHMENT
CATCH BASIN GRATE TYPE A**



**END TRANSVERSE BAR ATTACHMENT
CATCH BASIN GRATE TYPE A AND B**

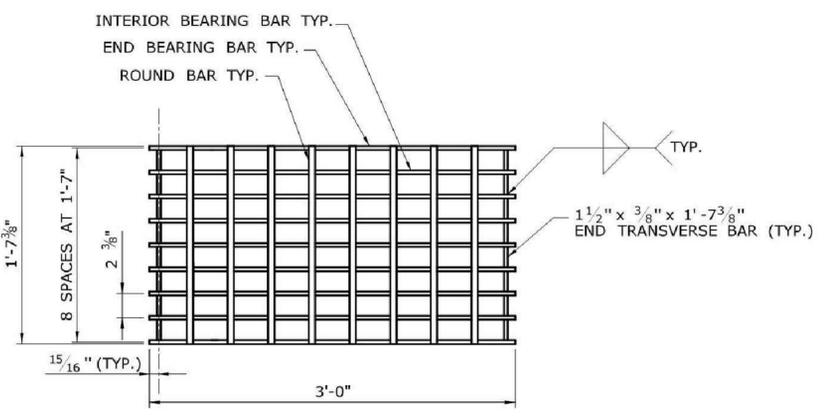


**CROSS BAR ATTACHMENT
CATCH BASIN GRATE TYPE B**

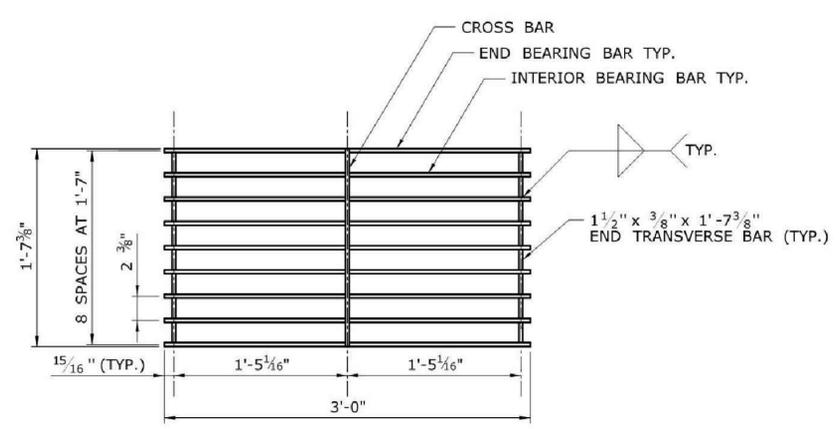


PLAN

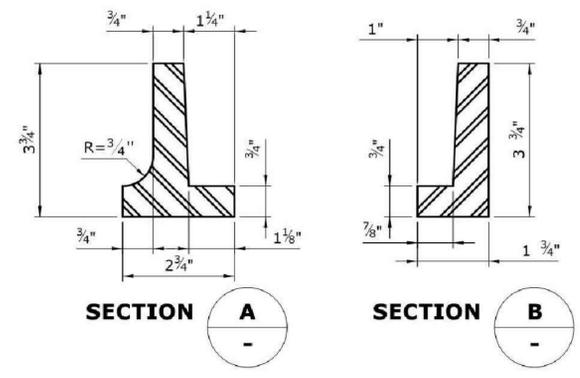
- GENERAL NOTES:**
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" AND "B" GRATES.
 2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR ON HEAVY DUTY LOCK DOWN TOPS AS DIRECTED BY THE ENGINEER.
 3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, RAMPS AND WHERE BICYCLE TRAFFIC IS NOT ALLOWED OR AS DIRECTED BY THE ENGINEER.
 4. DO NOT GALVANIZE CAST IRON FRAMES.
 5. DIMENSIONAL TOLERANCES SHALL BE $\pm 1/16$ INCH.
 6. ALL STEEL BARS SHALL BE WELDED AT ALL INTERSECTIONS.



PLAN

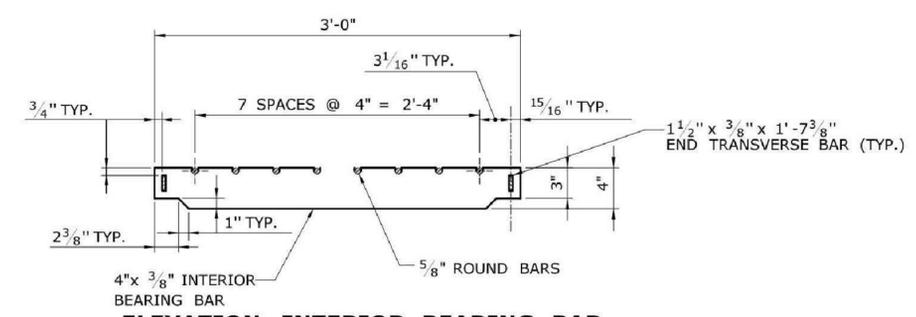


PLAN

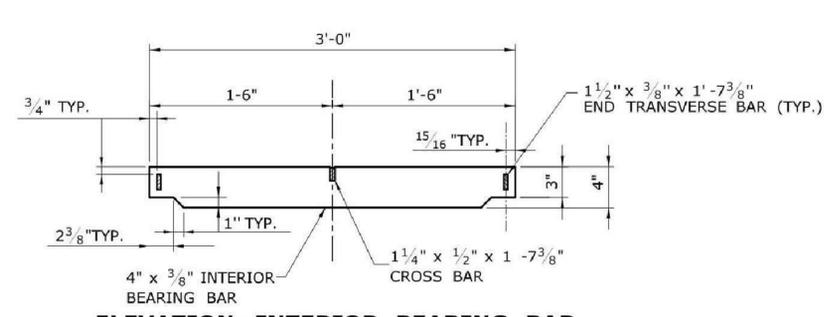


SECTION A SECTION B

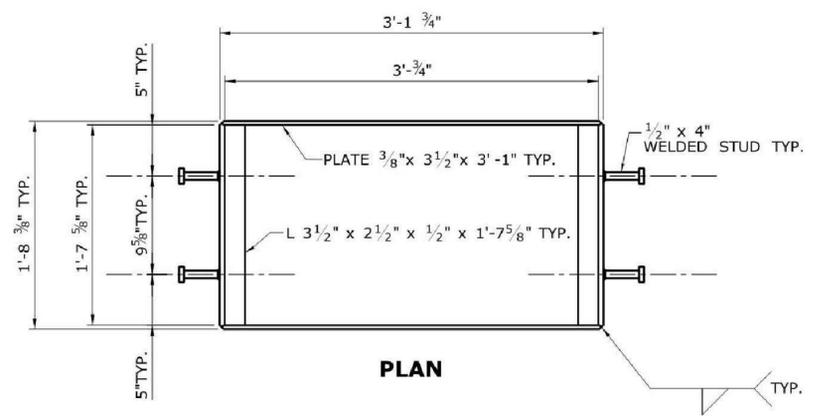
CAST IRON FRAME ALTERNATE



ELEVATION- INTERIOR BEARING BAR

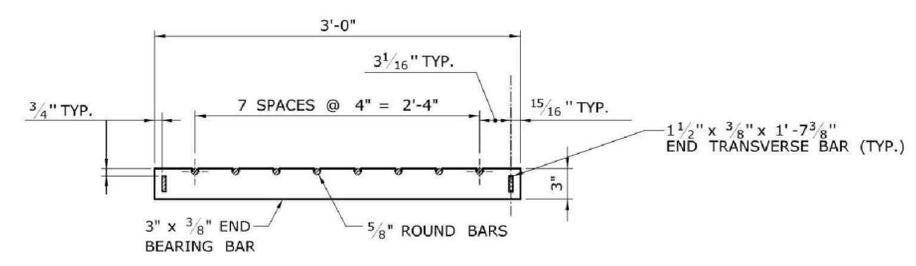


ELEVATION- INTERIOR BEARING BAR

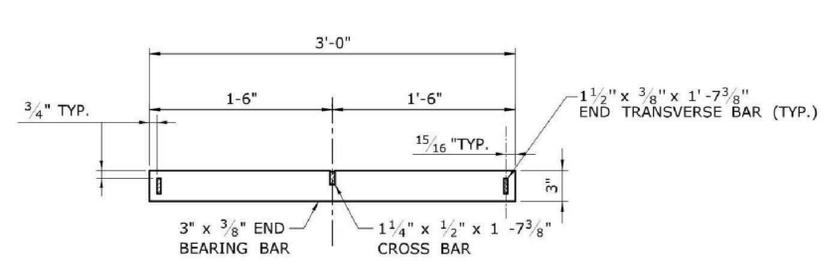


PLAN

**WELDED STUD ANCHOR DETAILS
STEEL FRAME**



**ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE A**



**ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE B**

1 NTS
CATCH BASIN GRATES

Nov 01, 2019 - 11:47am
 PA 2019, Copy of Workbook\108 - CatchBasinGrates\108-DT.dwg
 2021 Whitney Avenue - Hamden, CT 06518
 Ph: 203.234.4200 Fax: 203.234.7579
 www.dtcinc.com

REV.	DATE	DESCRIPTION	SHT. NO.

DESIGNER: SRL	TOWN OF WESTBROOK
DRAFTER: SRL	
CHECKED BY: MDE	
DATE CHECKED: 10/13/2019	

ENGINEER: DIVERSIFIED TECHNOLOGY CONSULTANTS	DTC
APPROVED BY:	
DATE: 11/22/2019	

PROJECT TITLE: SIDEWALK ENHANCEMENTS AND EXTENSIONS ALONG RTE. 1	MISCELLANEOUS DETAILS
CADD: 19-106-DT.DWG	
PLOTTED: October 14, 2019	

PROJECT NO.: 19-106
DRAWING NO.: MDS-06
SHEET NO.: 15

