Valley Council of Governments

CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Stormwater Pollution Control Plan

Route 8 – Interchange 18
New Northbound On-Ramp
City of Ansonia and Derby, Connecticut

ConnDOT Project No. 36-179

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STORMWATER POLLUTION CONTROL PLAN FOR CONSTRUCTION ACTIVITIES

1.0 INTRODUCTION AND NARRATIVE

This Stormwater Pollution Control Plan (SWPCP) has been prepared in accordance with the *General Permit for the Discharge of Stormwater and Dewatering Wastewater from Construction Activities* issued August 21, 2013 by the Connecticut Department of Energy and Environmental Protection (DEEP).

This project is a result of the Preliminary Design Study conducted for the Route 8 Corridor-Access Improvements from Interchange 15 to Interchange 18 in the City of Derby and the City of Ansonia. The proposed construction is only to Interchange 18 in the City of Derby and the City of Ansonia which includes the construction of a new Northbound On-Ramp to Route 8.

As a result of Public, State and City Officials comments and concerns the recommended roadway improvements are as follow:

1) Addition of a new Northbound On-Ramp onto Route 8 from Westfield Avenue.

2) Reconstruction of Westfield Avenue northerly from Division Street intersection and incorporation of a cul-de-sac with entry to the new Northbound On-Ramp to Route 8.

3) Westfield Avenue north of the new ramp will be separated by the creation of a residential cul-de-sac. This cul-de-sac will isolate the residential zone from commercial areas. An existing house has been acquired to accommodate the new cul-de-sac.

4) Construction of 290’ concrete retaining wall varying from 3 feet to 20 feet in height supporting northbound Route 8 from Westfield Avenue and the cul-de-sac entry to the new Route 8 On-Ramp.

5) Construction of 660’ concrete retaining wall along Northbound On-Ramp from station 28+00 to station 34+62. The proposed wall is required in order to avoid inland wetlands located at the bottom of the slope.

6) Construction of 1,560’ noise barrier wall along Northbound On-Ramp from station 19+00 to station 340+62. The proposed noise barrier wall was recommended based on a Noise Barrier Study (dated February 2013) in which the analysis confirms that a noise barrier wall is reasonable, and feasibly meets project noise abatement design goals in adjacent affected areas.

7) Division Street will be widen from Exit 18 off-ramp / Westfield Avenue intersection to the Seymour Avenue / Wakelee Avenue intersection to accommodate an exclusive left turn lane from Division Street eastbound onto Wakelee Avenue.

8) The existing drainage system will be upgraded throughout the project limits. The additional drainage structures and the reconstruction and re-grading of Westfield Avenue will alleviate the flooding problem at the westerly portion of the roadway

9) The existing traffic signal at the Division Street / Seymour Avenue / Wakelee Avenue will be modified to optimize the benefit of the additional left turn lane.

Other safety improvements include the installation of granite curbing to better define the travel way of the local roads to protect pedestrians. New sidewalks and driveways are also proposed. New colored and textured cross walks are also proposed to improve pedestrian safety.

1.1 Project Description of Construction Activity

The construction project is titled **Route 8, Interchange 18 - New Northbound On-Ramp, Cities of Ansonia and Derby, ConnDOT Project #36-179**.

The project is mainly within existing road Right of Ways along Division Street, Route 8, and Westfield Avenue. See the attached Location Map in the permit registration for additional information.

The project is being constructed in accordance with ConnDOT Form 816 revised through January 2014, the 2002 Conn. Guidelines for Soil Erosion and Sedimentation Control, and the 2004 Conn. Stormwater Quality Manual.

The project contains clearing, grading, structural, re-paving, utility improvements, maintenance and protection of traffic, and other associated work. The location of the new on-ramp is a wooded fill slope on the east side of the Route 8 embankment with access from Westfield Avenue.

Minor drainage improvements and repairs are being made to the Route 8 system. This project does contain minor work at points where new drainage pipes connect to the existing 42” CMP in Westfield Avenue at Stations 17+82.6, 25’ Rt, and Sta. 18+48.8, 36’ Rt. Drainage improvements are being made to the Westfield Avenue and Division Street storm sewer systems that tie into the 42” CMP in two locations.

A retaining wall is proposed from Station 28+00 to Station 34+62 to avoid impacting inland wetlands (a drainage channel carrying a watercourse along the toe of the fill slope).

The Owner of the Route 8 Right of Way is the Connecticut Department of Transportation. Division Street is co-owned by the Cities of Derby and Ansonia. Westfield Avenue is owned by the City of Ansonia.

1.2 Estimated Disturbed Area

The Route 8 project site contains 4.56 acres of disturbance. The total approximate City and State owned Right of Way is 13.3 acres in the project area. This includes areas of existing road and

sidewalk reconstruction, and pavement construction. It is anticipated that 1-2 acres may be disturbed and any time due to construction phasing. One retaining wall is proposed along Division Street, and two other retaining walls are proposed along Route 8 to limit disturbed areas.

1.3 Estimated Runoff Coefficients

Route 8 is an existing highway that was constructed in the 1950s. The existing Division St. corridor contains a mix of commercial development. The existing Westfield Avenue corridor contains commercial development along the east side up to the proposed cul-de-sac, and residential neighborhoods north of the cul-de-sac.

TABLE 1: DRAINAGE OUTLETS & RUNOFF COEFFICIENTS

Outlet	Location	Structure	Outlet Pipe	Sum AC	A (ac.)	C	Q_{10} (c.f.s.)	Q_{cap} (c.f.s.)
EO-1	Westfield Av Sta. 17+57, 23' Rt	MH 4	42" CMP	13.40	20.73	0.65	58.91	80.91

The drainage area and runoff coefficients for EO-1 are for the existing and proposed conditions in the project area. The 42" CMP has an upstream watershed of 290 acres that is not listed as part of the data for EO-1.

Rational C = $[A_{imp} \times C_{imp} + A_{remainder} \times C_{remainder}]/A_{total}$
$C_{existing}$ = [1.31 ac.(0.95) + 19.42ac.(0.63)]/20.73ac. = 0.646
$C_{proposed}$ = [1.58ac.(0.95) + 19.15ac.(0.63)]/20.73ac. = 0.650

The existing impervious roadway area for the project area is 1.98 acres. The proposed impervious roadway area is 2.59 acres.

1.4 Receiving Waters

A portion of the Division Street storm drainage ties into an existing catch basin along Wakelee Avenue. The main receiving water in Westfield Avenue is the existing 42" CMP storm sewer flowing south from Westfield Avenue. There are various existing outfalls from the Route 8 drainage system that also eventually flow into that 42" CMP via swales, and channels. The 42" CMP storm system continues south and east through Wakelee Avenue and other properties via a piped system that flows into a 48"x60" stone culvert under Mary Street. The piped system continues via a concrete box culvert though the Pine Grove Cemetery and re-emerges into a channel east of Howard Street. The entire system is part of the Naugatuck River basin (CT DEEP Drainage Basin #6900-00).

1.5 Wetland Acreage

There are approximately 1.7 acres of inland wetlands in the State R.O.W. for Rt. 8 within the project area. The boundary along the toe of the highway embankment was flagged by Richard Snarski, a Certified Soils Scientist, from New England Environmental Services in 2013. The wetland flags were located by survey field crew. There are no flagged wetlands along Division Street or Westfield Avenue.

The wetlands remain largely undisturbed during construction due to the use of retaining walls to limit the extent of fill slopes for the shoulder of the on-ramp. There is minor work at headwalls for replacing corroded pipe, cleaning sediment, etc.

2.0 CONSTRUCTION SEQUENCING

Construction is anticipated to take 420 days; from April 1, 2015 to September 30, 2016. One winter shut down period is scheduled.

A *Chart for Determining the Number of Contract Days* is attached as Table 2 on page 9. The sequence of operations is shown on drawing MPT-1 through MPT-4 (attached). The following is the anticipated general sequence of construction:

1. Initial Mobilization;
    a. Install construction trailers and construction entrances,
    b. Set perimeter chain link construction fence and gates, where necessary
    c. Install sedimentation control systems at catch basins and along limits of grading,
    d. Clearing existing trees and stumps slated for removal.
    e. Cleaning existing drainage structures and pipes before construction begins.
    f. Construct Waste Stockpile Area in Seymour.

2. Stage 1 Route 8 On-Ramp and Shoulder Widening;
    a. Install sedimentation and control systems as shown and sedimentation control at catch basins for existing structures.
    b. Install anti-tracking pads shall be installed at both ends of the work area during the retaining walls and fill operations.
    c. Install maintenance and protection of traffic (M&PT) control system (temporary precast concrete barrier curb (TPCBC), temporary signing and pavement markings).
    d. Install temporary earth retaining system for Retaining Wall 101.
    e. Earthwork excavation and pilling driven operations for Retaining Wall 101.
    f. Construct concrete footing.
    g. Construct concrete Retaining Wall 101
    h. Strip forms, place structural backfill and remove temporary sheeting.
    i. Abandon pedestrian underpass.
    j. Repeat operations 2.d thru 2.h for Retaining Wall 102.
    k. Begin roadway earthwork (excavation and filling) for new Northbound On-Ramp.
    l. Install drainage system. Install sedimentation controls at proposed catch basins.
    m. Construct subbase and pavement.

n. Drill shafts for foundations and construct noise barrier wall.
o. Install curbing and guide rail.
p. Paint pavement markings and set signs.
q. Prepare landscaped areas, place topsoil and provide turf establishment.

Stage 2 Division St Reconstruction;

a. Install temporary M&PT controls.
b. Install sedimentation and erosion control systems.
c. Construct proposed drainage systems. Install sedimentation control systems at proposed catch basins.
d. Construct embankment wall along Griffin Health Services parking lot.
e. Install temporary traffic signalization (site no. 1) at Wakelee Avenue.
f. Earthwork (excavation and fill) including sidewalk and driveway construction.
g. Install curbing.
h. Construct roadway pavement.
i. Install permanent traffic signalization.
j. Construct concrete sidewalk and driveways.
k. Paint pavement markings and set signs.
l. Prepare landscaped areas, place topsoil and provide turf establishment.

3. Stage 3 Westfield Ave Reconstruction;
    a. Install Roadway Closed signs as shown on plans.
    b. Install temporary M&PT controls.
    c. Install sedimentation and erosion control systems.
    d. Construct proposed drainage systems. Install sedimentation control systems in proposed catch basins.
    e. Construct drainage swale with erosion control matting.
    f. Earthwork (excavation and fill) including sidewalk and driveway construction.
    g. Install curbing.
    h. Construct roadway pavement.
    i. Construct concrete sidewalk and bituminous driveways.
    j. Paint pavement markings and set signs.
    k. Prepare landscaped areas, place topsoil and provide turf establishment. Plant landscaping in center islands at cul-de-sac and on-ramp.

4. Stage 4 Clean-Up
    a. Repair any eroded areas, and replace landscaping where necessary.
    b. Clean all storm drains and structures after construction.
    c. Remove excess materials, clean trash, sweep roads.
    d. Remove sediment and erosion controls after all areas are fully stabilized.
    e. Remove Waste Stockpile Area, and de-mobilize construction storage and trailer.

The Contractor may amend the phasing of operations with the approval of ConnDOT District 4.

TABLE 2: CHART FOR DETERMINING NUMBER OF CONTRACT DAYS

STATE OF CONNECTICUT - DEPARTMENT OF TRANSPORTATION - BUREAU OF HIGHWAYS
CHART FOR DETERMINING NUMBER OF CONTRACT DAYS

CITY OF Ansonia and Derby FED. AID PROJ. NO. TCSP(103) PROJECT NO. 36-179
KNOWN AS: Route 8 Interchange 18
TYPE OF PAVEMENT HMA S0.5 and HMA S1 LENGTH: 3332 Feet (0.63 Miles)

OPERATION	DURATION	CALENDAR DAYS														
Mobilization	10															
Clearing and Grubbing	10															
Utilities Reloc. (Division St. & Westfield Ave)																
To Be Installed or Relocated During Stage 1							W									
Utility Poles (United Illumination Company)																
Gas Main (Yankee Gas)							I									
Water Main (South Central Conn. RWA)																
Stage 1							N									
Install Stage 1 Sed. & Erosion Control System	2															
Install Stage 1 M&PT Traffic Controls	7						T									
Retaining Wall 101																
Install Temporary Earth Retaing System	10						E									
Earth Work Excavation (Wall)	20															
Piling Driven Operations (Test Piles, Order and Install Production Pile)	15						R									
Install Concrete Footing	15															
Install Concrete Retaining Wall	45															
Structure Backfill and Remove Temp. Sheeting	15															
Retaining Wall 102																
Install Temporary Earth Retaining System	5															
Earth Work Excavation (Wall)	5															
Caisson Driven Operations	30						S									
Install Concrete Retaining Wall / Noise Wall	25															
Structure Backfill and Remove Temp. Sheeting	3						H									
Northbound On-Ramp																
Roadway Excavation & Slope Embankment Fil	9						U									
Install Drainage System	5															
Subbase and Slope Turf Establishment	5						T									
Pavement - HMA S1 / S0.5	3															
Caisson Driven Operations	30															
Installation of Noise Barrier Wall	25															
Install Concrete Barrier	3															
Pavement Striping and Signing	2															
Stage 2 (Division Street)																
Install Stage 2 Sed. & Erosion Control System	1															
Install Stage 2 M&PT Traffic Controls	2						D									
Install Drainage System	7															
Construction of Embankment Wall (Site No. 1)	6						O									
Temporary Signalization	3															
Roadway, Sidewalk & Drives Excavation / Fill	8						W									
Roadway Pavement - HMA S1 / S0.5	3															
Install Curbing	5						N									
Construct Concrete Sidewalks & Drives	10															
Pavement Striping and Signing	3															
Install Traffic Signalization	12															
Topsoil and Turf Establishment	5															
Stage 3 (Westfield Avenue)																
Install Stage 3 Sed. & Erosion Control System	1															
Install Stage 3 M&PT Traffic Controls	1															
Install Drainage System	7															
Roadway, Sidewalk & Drives Excavation / Fill	8															
Roadway Pavement - HMA S1 / S0.5	3															
Install Curbing	5															
Construct Concrete Sidewalks & Drives	7															
Pavement Striping and Signing	3															
Topsoil and Turf Establishment	5															
Miscellaneous and Clean Up	15															
	0	30	60	90	120	150		180	210	240	260	300	330	360	390	420
		Aug	Sep	Oct	Nov	Dec		April	May	June	Jul	Aug	Sep	Oct	Nov	Dec

EQUIPMENT REQUIREMENTS
Sufficient equipment to complete the work on this project within the number of contract days allowed on this chart.

DATE OF LETTING
POSSIBLE AWARD
START OF JOB April 1, 2015
FINISH OF JOB September 30, 2016

CALENDAR DAYS ALLOWED 420
Saleh/Lalama

3.0 CONTROL MEASURES

3.1 Sediment and Erosion Controls

3.1.1 Temporary Stabilization Practices

The sediment and erosion controls will be installed in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control. The erosion controls are shown on the Drainage Plan sheets (attached).

The major concerns for erosion control during construction are:

- Maintain safe pedestrian and vehicle access through work areas, Route 8, city streets, and adjoining private property during construction.
- Control dust and vehicle tracking on roads.
- Limit clearing and disturbance in areas to be graded.
- Provide slope stability during retaining wall and ramp construction.
- Protect existing and proposed drainage systems and prevent sediment from entering storm sewers watercourses and wetlands.
- Maintain all S&EC controls in good working condition through construction.
- Clean drainage systems and remove all S&EC controls after upstream areas are fully stabilized at the end of construction.

With the exception of the slope and ramp areas along Route 8 the majority of the work zone is level and stabilized with pavement or sidewalks throughout most of construction. The soils are mostly sands and gravels. The boring locations are shown on the Roadway Plans.

The following BMP's were selected to provide temporary erosion protection:

- Phased Construction; the project is being built in three phases to limit areas of un-stabilized soils.
- Crushed stone Construction Entrances – at Westfield Ave and at the off-site Waste Stockpile Area
- Silt Sacks installed in existing catch basins and yard drains,
- Sedimentation Control using silt fence and haybales along slopes and work perimeters,
- Erosion control matting in swale, and erosion control blankets and mulch for slopes
- Dust Control including street sweeping, covering dump trucks, and applying water and calcium chloride to roadways to limit dust.
- Temporary seeding of earth stockpiles not being hauled off-site.
- Off-site Waste Stockpile Area (WSA) for processing environmentally impacted soil.
- Temporary pavement including bituminous roads, driveway aprons, or sidewalks, where necessary.

Stabilizing of slopes shall be done immediately after construction of slopes (cut or fill). All disturbed areas shall be mulched with hay, or erosion control blankets. Hay mulch must be anchored or watered immediately after spreading to prevent wind blowing.

Deposits of sediment and silt are to be periodically removed from the upstream side of the silt fence, or haybales. This material is to be spread and stabilized in areas not subject to erosion, or in areas that are not to be paved or built on. The sedimentation control system is to be replaced as necessary to provide proper filtering action. The system is to remain in place and be maintained to insure efficient siltation control until all areas above the fence are stabilized and vegetation has been established.

Additional controls that may be used during construction include:

- Additional Silt Sacks in catch basins outside work zone if impacted by construction traffic.
- Compost tubes for filter controls. These compost tubes can be effective in areas of mixed urban pavement and soil where it is difficult to anchor silt fence or haybales.
- Additional erosion control blankets or jute cloth in areas outside the erosion control blankets shown on the construction plans.
- Temporary seeding, mulch, or hydroseeding of interim graded areas where final grading is not scheduled for extended periods and where no erosion controls are shown.

3.1.2 Permanent Stabilization Practices

The project area will be covered with permanent landscaping or pavement, but will also have the following measures:

- Permanent topsoil and seeding in swales, shoulders, slopes and other disturbed areas.
- Permanent landscaping at Westfield Ave. cul-de-sac (see attached plans). Landscaped center islands are used in cul-de-sacs to reduce impervious cover.
- Permanent bituminous pavement and concrete sidewalks, where shown.

Permanent Vegetation

Permanent Vegetation will be initiated within 7 days after completion of the final grading operations to stabilize soil in disturbed areas and reduce damage from sediment and runoff.

Seeding is to be accomplished within seven days of the contractor's reaching an appropriate grading increment as determined by the Engineer. Seeding dates for permanent vegetation will be observed to ensure adequate growth. Temporary mulching shall be used if season or weather prohibits seeding.

Embankments and cut slopes will be seeded and mulched or covered with sod. All soil stockpiles shall be stabilized by temporary seeding if they are to remain longer than 30 days.

3.1.3 Temporary and Permanent Structural Measures

- Existing catch basins shall be maintained during construction. Catch basin tops being reset shall have temporary openings to let subbase drain during construction to avoid impacting neighboring properties. Install sedimentation control and Silt Sacks to prevent muddy water from entering catch basins.

- Temporary water handling measures shall be in accordance with guidelines in the ConnDOT Drainage Manual and 2002 Soil and Erosion Control Guidelines. Avoid discharging trench dewatering pumps into storm drains, catch basins or streams prior to sediment traps, drums, or Dirt Bags.

- Temporary Sediment Trap (TST) will be installed with 134 c.y. volume per acre of tributary area (2-5 acres max.) per 2002 Soil and Erosion Control Guidelines. There is limited room within the R.O.W.'s for sediment traps, but TST #1 is shown schematically along the shoulder of Westfield Ave. at Sta. 14+50. Contractor to coordinate TST locations and dimensions with District Engineer.

- New permanent storm sewers are being installed in local streets and at the new on-ramp to improve local drainage by reducing gutter flow spread and local street flooding.

- Permanent paving and sidewalks shall be completed or temporarily stabilized in each Construction Stage prior to disturbing subsequent areas.

3.1.4 Maintenance

Contractor shall review the sediment and erosion controls weekly, and replace any Silt Sacks, haybales, silt fence, construction entrance stone, temporary drainage, or other measures as necessary to maintain initial controls in original working order per the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control*. In addition to regular maintenance review controls after storms, repair erosion if necessary; remove sediment that may have washed downhill, replace erosion controls, reseed areas, and restore erosion control blankets and hydroseed. Install additional controls where necessary, or as directed by District 4 personnel.

3.2 Dewatering Wastewaters

Dewatering of wastewaters will comply with ConnDOT Form 816 Standard Specifications and contract documents.

Excavation that must be dewatered will be pumped into an active drainage system. Both the inlet and outlet of the pumps should be filtered and protected from surge action using Temporary Sediment Traps, filter drums, Dirt Bags, or other methods. Debris and other waste resulting from equipment maintenance and construction will not be discarded on site.

Rinse water or steam condensate from pipe re-lining operations shall discharge to sanitary sewer or be collected and discharge to a waste water treatment plant; not discharged to storm drains, wetlands or watercourses.

3.3 Other Controls

3.3.1 Waste Disposal

All waste disposals will comply with the Construction Documents and Connecticut Department of Transportation "Standard Specifications for Roads, Bridges and Incidental Construction", Form 816, 2004, ENVIRONMENTAL COMPLIANCE, Section 1.10.03 – Water Pollution Control, Best Management Practices, Sub-sections 3, as follows:

"No Project construction shall proceed unless and until a written proposal of methods to prevent construction debris, paint, spent blast materials, or other materials from entering any wetland or watercourse has been submitted by the Contractor and approved by the Engineer in writing, and until such methods have been implemented as the Engineer directs. Such materials shall be collected and disposed of in accordance with all applicable Federal and State laws and regulations. The Engineer may order the Contractor to cease such activity if, in the opinion of the Engineer, weather conditions threaten to cause the deposit of such material into a wetland or watercourse."

Refer to Environmental Plans prepared by CDR Maguire for handling excavation from Areas of Environmental Concern. A Waste Stockpile Area will be constructed off-site in Seymour for storing and classifying excess material. The excavated materials will be re-used on site to the extent practicable, and as authorized by District 4 personnel.

3.3.2 Dust Control and Construction Entrances

The primary construction access is from Division Street, and Route 8 after the new on-ramp is constructed. Secondary access is via Westfield Avenue per local trucking restrictions, or as noted by District 4 personnel.0

The Contractor will be required to perform the following dust control applications:

- Sweeping public rights-of-way in and adjacent to the project area (daily and weekly),
- Applying water to roads in or outside the project area,
- Applying calcium chloride or other dust-suppressant additives to roads to the project area,
- Accumulated windblown sediment will be removed from the public roadways as needed, but at least once a day.
- Install crushed stone Construction Entrances where necessary due to construction access control.
- Cover loads on dump trucks during hauling.

3.3.3 Controlled and Hazardous Materials

All Controlled or Hazardous Materials will be re-used on-site or disposed of off-site in accordance with the applicable regulations.

Oil and/or fuel storage facilities will be allowed on site and stored within impermeable containers with at least 110% of the volume of the fuel container. Fuel will be delivered to the equipment via truck as needed. Equipment maintenance will be done on and off-site. Disposal of contaminated and/or hazardous materials will be done in accordance with Contract Documents.

Controlled or hazardous materials excavated by utility companies, if any, shall be disposed of in a similar manner.

3.3.4 Flood Preparedness

The proposed construction is generally outside floodplains, however the 42" CMP and other culverts and drainage pipes can surcharge during severe storms. The Contractor shall maintain all pipes and drainage structures in a clear and open condition at the end of each day and when rainfalls are forecast.

Materials stored on-site which are hazardous, flammable, explosive, soluble, expansive, radioactive, shall be stored above flood elevations. Other material or equipment may be stored below flood elevations provided that such material or equipment is firmly anchored, restrained or enclosed. Any other material stored below the 100-year flood elevation must be firmly anchored, restrained or enclosed to prevent flotation.

3.3.5 Washout Areas

Washout of applicators, containers, vehicles and equipment for concrete, paint and other materials shall be conducted in designated washout areas. There shall be no surface discharge of washout wastewater from this area. See Drainage Plans for schematic locations. Contractor to clearly flag locations in the field.

There washout areas shall be at least 50 feet from any watercourse, channel, catch basin, or be in an entirely self-contained washout system.

There shall be no discharge of any washout wastewater to storm drains or streams.

The cleaning and removal of hardened concrete and other materials shall be noted in the weekly construction records. Refer to the page 33 of the General Permit for other washout requirements.

3.3.6 Cleaning

Upon completion of construction all stormwater structures and pipes will be cleaned of accumulated sediments. Remove sediment from cleaning at downstream structures.

The Contractor will inspect all sedimentation and erosion control devices weekly during construction and immediately after each rainfall and at least daily during prolonged rainfall. The Contractor shall maintain and make repairs and remove sediment as needed or as requested by District 4 personnel. This work shall be performed within 24 hours of the request.

The Contractor shall clean sediment and debris from all drainage structures and pipes periodically during and at the completion of construction, and as requested by District 4 personnel to keep the systems functioning properly during construction. Collect rinse water from storm sewers prior to discharge to storm drainage, wetlands, or watercourses. Dispose of rinse water in sediment traps or other legal disposal methods.

The Contractor shall repair all eroded areas as they are identified, and ensure a good stand of turf is established.

Remove all silt fence and other controls after all upland areas are fully stabilized.

3.4 Post Construction Stormwater Management

The Connecticut Department of Transportation – District 4 will be responsible for post-construction stormwater management of Route 8 drainage. The center of Division St. is the corporate boundary between the Cities of Derby and Ansonia. Each City maintains the storm sewers within their portions of Diversion Street. The City of Ansonia will continue to own and maintain Westfield Avenue.

Post-construction stormwater management includes:

- Regular trash removal
- Sweeping and vacuuming adjacent streets (spring and fall)
- Cleaning catch basin sumps (spring) via vactor trucks
- Checking that storm sewer pipes are clear (annually)
- Verifying channel stabilization and outlets along Route 8 (annually)
- Checking that culverts and head walls are stable (annually)
- Repair of minor erosion, if necessary
- Reseeding of worn or eroded grass areas
- Minor erosion repairs
- Mowing and brush management (semi-annually)
- Snow clearing and management on Route 8, highway ramps, and adjacent streets

Adjoining property owners may be responsible for some maintenance of driveways and sidewalks in front of their properties in accordance with city ordinances.

3.5 Additional Controls for Impaired Waters

No watercourses in the project area are listed on the *Impaired Waters Table for Construction Discharges* for turbidity and siltation.

4.0 RUNOFF REDUCTION AND LOW IMPACT DEVELOPMENT

The options for Low Impact Development (LID) Best Management Practices (BMP) are restricted due to the limits of the Route 8 Right of Way relative to adjacent homes and businesses in a developed urban area.

Landscaped islands were used in the center of cul-de-sacs on Westfield Avenue to reduce impervious areas.

5.0 INSPECTION

Initial Inspection:

Within 30 days of the commencement of any new (i.e. post February 1, 2014) phase of construction activity on the site an inspector will inspect the site to confirm compliance with the General Permit for new construction, and to verify implementation of control measures as outlined in this plan. The inspector will fill out an inspection report following this initial visit and review it with District 4 Personnel.

Routine Inspections:

The Contractor will maintain a rain gauge on site to document rainfall amounts.

At least once a week and within 24 hours on the end of a storm that generates a discharge, a qualified inspector shall inspect:

- All erosion and sedimentation control measures
- All structural control measures
- Waste and soil stockpile areas
- Washout areas and locations where vehicles enter or exit the site.
- Temporary cut and fill slopes near retaining walls and ramps.
- Existing and proposed drains at the toes of slopes.
- Perimeter controls at adjacent residential properties.

These areas shall be inspected for evidence of or the potential for pollutants entering the drainage system and impacts to the receiving waters.

The Routine Inspections will note the effectiveness of controls, identify any areas that need maintenance, cleaning, replacement, or additional controls, and follow-up actions to improve sediment and erosion control performance.

For any storms that end on a weekend, holiday, or other time in which working hours will not commence within 24 hours, an inspection is required within 24 hours only for storms that equal or exceed 0.5 inches of rain.

Final inspections will be made at the end of construction and following final stabilization as outlined in the General Permit. Once the site has been stabilized for three months a Final Inspection by the Qualified Inspector will be made prior to filing the Notice of Termination.

6.0 TURBIDITY MONITORING

District 4 Personnel will conduct turbidity monitoring, and submit the test results monthly to the DEEP. Sampling will be done in accordance with 40 CFR Part 136 and DEEP requirements

1. Sampling will be conducted at least once every month when there is a discharge of stormwater from the site while construction activity is ongoing.

2. All samples shall be collected from discharges resulting from a storm event that occurs at least 24 hours after any previous storm event generating a stormwater discharge.

3. Samples shall be grab samples taken at least three separate times during a storm event and shall be representative of the flow and characteristics of the discharges. The first sample shall be taken within the first hour of stormwater discharge from the site, and the next two samples should be representative of the discharge throughout the storm.

4. It is anticipated that only the existing 42" CMP outlet (EO-1) at Westfield Avenue (Sta. 17+55, 23' Rt) needs to be sampled. Outfall EO-1 will be typically representative of the outfalls in the project area. Other outfalls may be sampled depending on the stage of construction and areas being disturbed.

5. Samples shall be taken monthly, when there is a discharge. If there are no storm discharges that month it should be noted in the Testing Log.

6. Samples may be taken either via manual grab or automated collection system (but using individual samples not composite).

7. Upload test results to the DEEP within 30 days after receipt back from the lab either using NetDMR electronic reporting, or manual reporting. (NOTE – electronic reporting is required after first 6 months –see page 40 of Permit, or an Opt-Out request must be approved)

TABLE 3: SAMPLING LOCATIONS

Outfall	Size & Type	Drainage Area (ac.)	Latitude	Longitude	Location	Sta. & Offset
EO-1	42" CMP	20.73	41.341083	-73.09193	Westfield Av. to MH 4 (N.)	17+57, 23' Rt

Outlet EO-1 is representative of runoff from the project area during construction.

7.0 KEEPING PLANS CURRENT

ConnDOT District 4 shall amend this Plan when there is a change in contractors or subcontractors at the site that impacts stormwater pollution controls. The Plan will also be amended where changes in design, construction, phasing, operation or maintenance of the site has the potential for discharge of pollutants to coastal waters. Additions to the Plan may be made during construction to address issues and conditions that were not originally anticipated as part to the original designs to prevent pollution.

Amendments to the plan may be in a simple memo format that identifies the item and any modification to the SWPCP. Approval by ConnDOT District IV is required for any changes.

The Contractor(s) shall conform to the stipulated requirements for Reporting and Record Keeping as contained in the General Permit.

Weekly and monthly inspections of the site will be conducted and documented. Monthly turbidity monitoring reports will be maintained in the same notebook. If the results of the site inspection indicates that the site is out of compliance, the inspection report shall include a summary of the remedial actions required to bring the site back into compliance. Non-engineered corrective actions (as identified in the Guidelines) shall be implemented on side within 24 hours and be incorporated in a revised Plan within three (3) calendar days of the date of the inspection unless another schedule is specified in the Guidelines. The construction inspection records shall be maintained on-site in the construction trailer for review by CT DEEP, ConnDOT District 4, or VCOG staff during business hours.

8.0 CERTIFICATION STATEMENT

Contractors and Subcontractors must certify that they have read the plan, are aware of the requirements, and will conduct construction in accordance with the permit (see blank forms attached with this permit).

At this time the Contractors that will have to complete this certification include but are not limited to:

- General Contractor,
- Subcontractors, as necessary,
- Utility company subcontractors, if any.

Other subcontractors involved with earth excavation may have to sign the certification as future work progresses. At this time it is underdetermined precisely, what other work may be done by utility companies in upgrading or replacing their lines will be done while the local streets are being reconstructed.

CONTRACTOR'S CERTIFICATION

PROJECT NO.: ConnDOT No. 36-179

PROJECT: Route 8 – Interchange 18 - New Northbound On-Ramp, Ansonia & Derby
Construction Stormwater – Sediment & Erosion Controls

The following is list of contractors that have reviewed the Stormwater Pollution Control Plan and General Permit for the Route 8 – Interchange 18 -New Northbound On-Ramp Project:

General Contractor and Subcontractor Certification Statement:
"I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. I understand that as a contractor or subcontractor at the site, I am authorized by this general permit, and must comply with the terms and conditions of this permit, including but not limited to the requirements of the Stormwater Pollution Control Plan prepared for the site."

_____

Contractor's Name/Title Signature Date

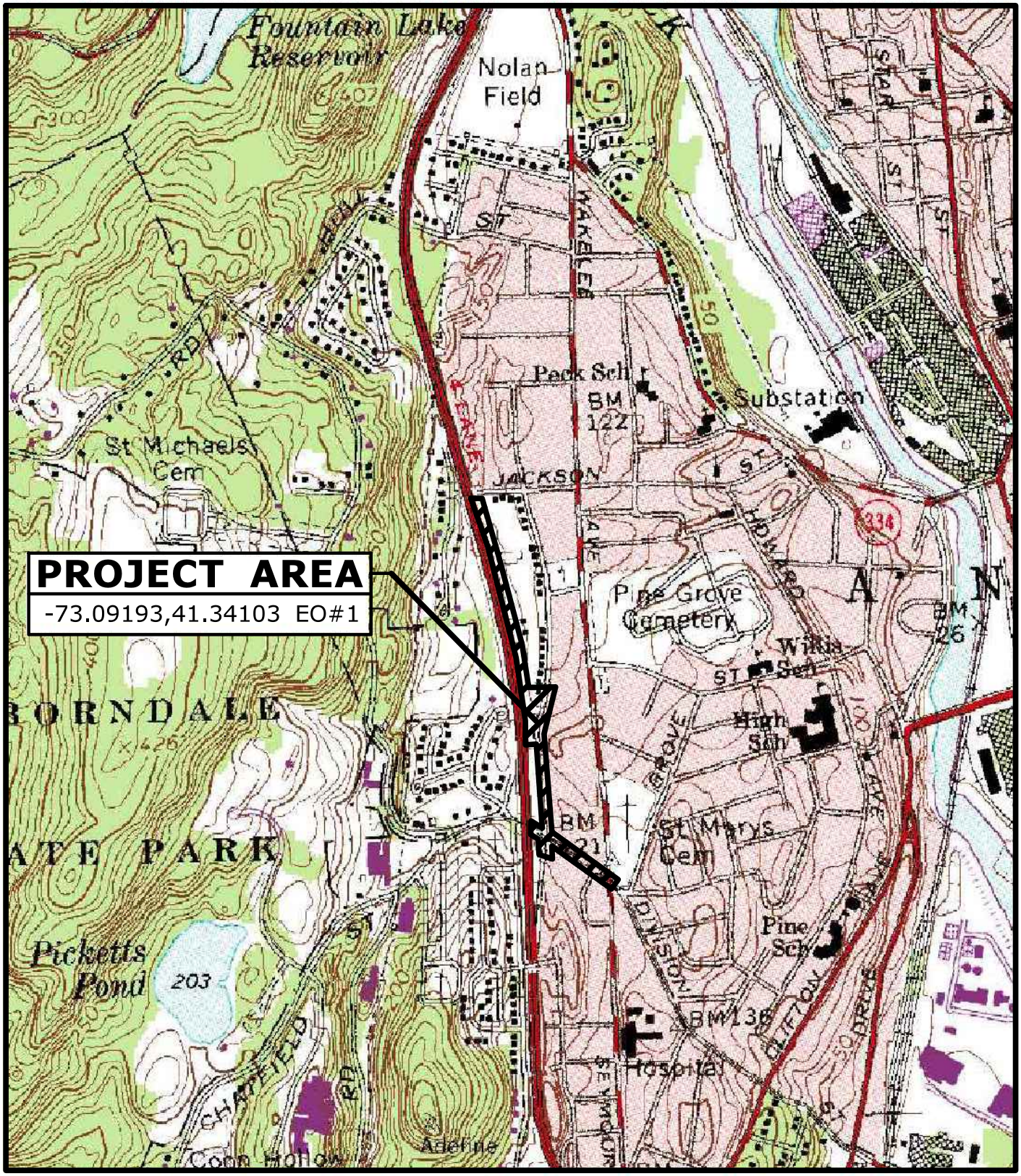
State Project No. 36-179
Route 8 – Interchange 18 – New Northbound On-Ramp
Ansonia & Derby, Connecticut

Subcontractor Certification Statement:
"I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. I understand that as a contractor or subcontractor at the site, I am authorized by this general permit, and must comply with the terms and conditions of this permit, including but not limited to the requirements of the Stormwater Pollution Control Plan prepared for the site."

_____

Contractor's Name/Title Signature Date

State Project No. 36-179
Route 8 – Interchange 18 – New Northbound On-Ramp
Ansonia & Derby, Connecticut



SCALE IN FEET

1000 0 1000 2000

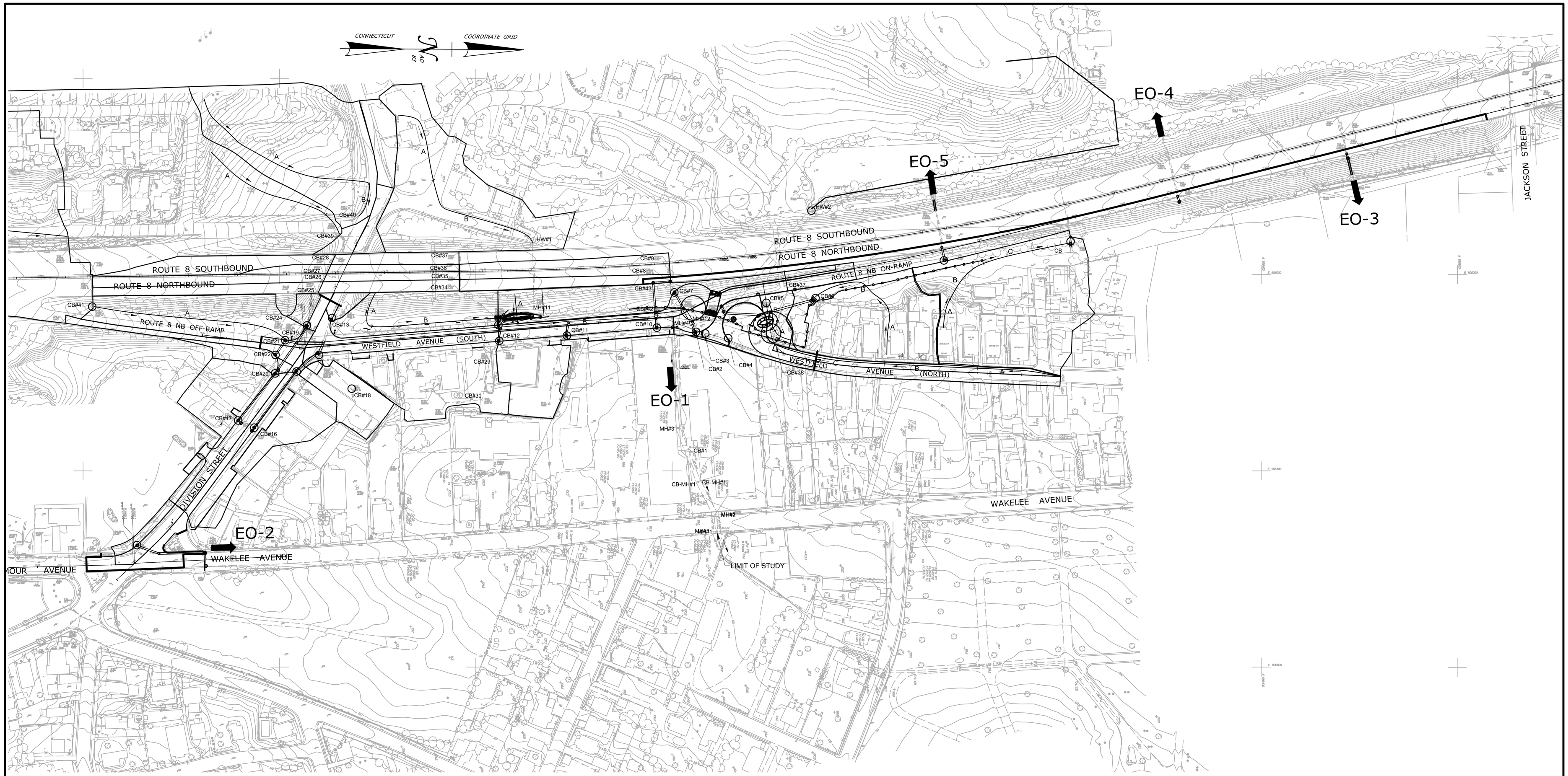
STATE PROJECT NO.:36-179
ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP
CITY/TOWN: ANSONIA/DERBY

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

LOCATION MAP

DATE: SEPT. 2014

LM-1



OUTLET	PIPE	AREA (AC)	C
EO-1	42" CMP	20.73 + 289 Upstream	0.65
EO-2	18" RCP	0.48	0.88
EO-3	15" CMP	0.75	0.95
EO-4	15" CMP	0.64	0.95
EO-5	15" RCP	2.28	0.95

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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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.

Plotted Date: 10/9/2014

DESIGNER/DRAFTER: TG/ETK

CHECKED BY: RJN

SCALE IN FEET 0 100 200

SCALE 1"=100'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ..\Storm Outfall Locations LM-2.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

TOWN: ANSONIA AND DERBY

DRAWING TITLE: STORM OUTFALL LOCATIONS

PROJECT NO. 36-179

DRAWING NO. LM-2

SHEET NO.

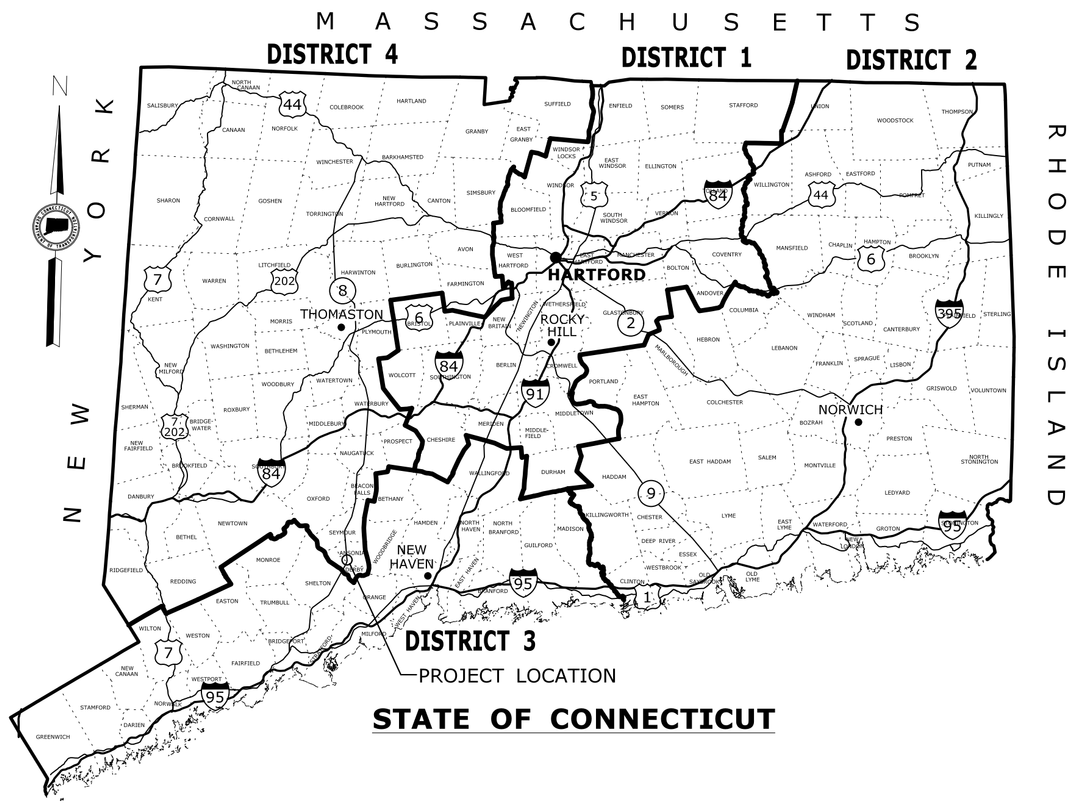
CONNECTICUT DEPARTMENT OF TRANSPORTATION

Plans For

ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

City of

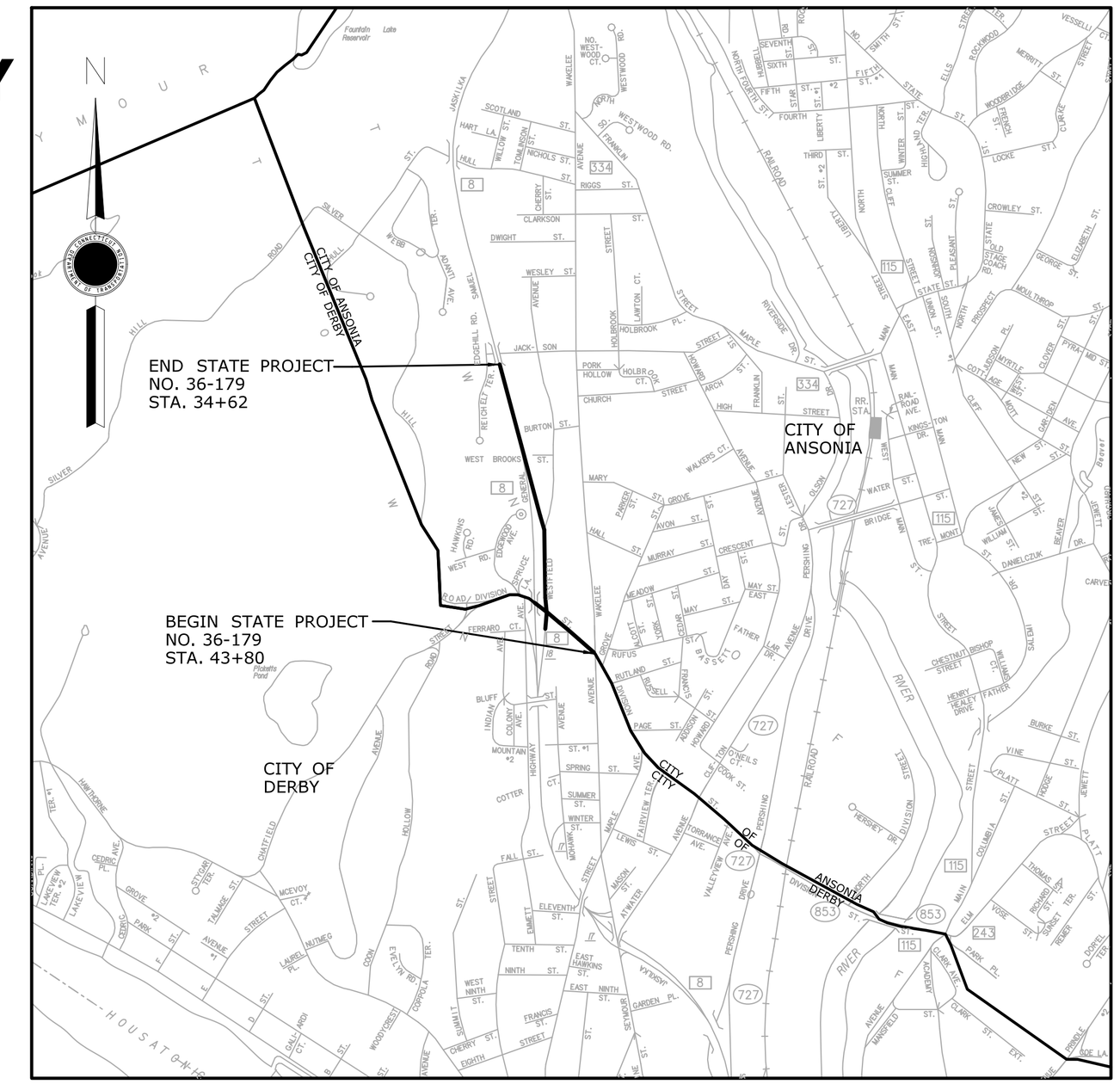
ANSONIA AND DERBY



STATE OF CONNECTICUT

ROAD	MAINTENANCE RESPONSIBILITY	LENGTH
Route 8 Interchange 18 NB Off-Ramp	STATE	65 FT.
Route 8 Interchange 18 NB On-Ramp	STATE	1,612 FT.
Division Street	ANSONIA/DERBY	690 FT.
Westfield Avenue (South)	ANSONIA	800 FT.
Westfield Avenue (North)	ANSONIA	165 FT.

F.A.P. #	MAINTENANCE RESPONSIBILITY	PROJECT #
1036(005)	STATE/ANSONIA/DERBY	36-179



LOCATION PLAN

NOT TO SCALE

GENERAL NOTES:

1. FEDERAL AID PROJECT NO. 1036(005)
2. CONSTRUCTION SPECIFICATIONS:
   Connecticut Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 816, dated 2004; Supplemental Specifications, dated January 2014; and Special Provisions
3. 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM N.A.D. 1983
4. VERTICAL DATUM BASED ON NAVD 1988

DISCLAIMER

IT IS THE RESPONSIBILITY OF EACH BIDDER AND ALL OTHER INTERESTED PARTIES TO OBTAIN ALL BIDDING RELATED INFORMATION AND DOCUMENTS FROM OFFICAL SOURCES WITHIN THE DEPARTMENT.

PERSONS AND/OR ENTITIES WHICH REPRODUCE AND/OR MAKE SUCH INFORMATION AVAILABLE BY ANY MEANS ARE NOT AUTHORIZED BY THE DEPARTMENT TO DO SO AND MAY BE LIABLE FOR CLAIMS RESULTING FROM THE DISSEMINATION OF UNOFFICAL, INCOMPLETE AND/OR INACCURATE INFORMATION.

LIST OF SUBSETS

SUBSET NO.	SUBSET TITLE	*SUBSET SHEET COUNT
01	GENERAL	7
02	REVISIONS	1
03	HIGHWAY	84
04	TRAFFIC	17
05	STRUCTURE	41
06	ENVIRONMENTAL	11
07	UNITED ILLUMINATING COMPANY	5
	(FOR INFORMATION ONLY)	
08	AT&T (FOR INFORMATION ONLY)	3
	CTDOT HIGHWAY STANDARD SHEETS	28
	CTDOT TRAFFIC STANDARD SHEETS	21

*THE INITIAL SUBSET SHEET COUNT DOES NOT INCLUDE ADDENDUMS AND CHANGE ORDERS

LIST OF DRAWINGS
SUBSET 01 - GENERAL

DRAWING TITLE	DRAWING NO.
TITLE SHEET	G-1
DETAIL ESTIMATE SHEET	EST-1
DETAIL ESTIMATE SHEET	EST-2
DETAIL ESTIMATE SHEET	EST-3
DETAIL ESTIMATE SHEET	EST-4
DETAIL ESTIMATE SHEET	EST-5
DETAIL ESTIMATE SHEET	EST-6

STANDARD CONVENTIONS

North Arrow W/No. Coor.
Edge Of Road
Concrete Pavement
Dirt Road
B.C.L.C.
Granite Curb
Guide Rail
Concrete Median Barrier
Bit. Walk
Conc. Sidewalk
Railroad Tracks
Grid Arrow
Limit Of Marsh
Stone Wall
Ledge Outcrop
Inland Wetland Limits
STATE LINE
Power Line
Swamp
Building
Transmission Tower
Chain Link Fence
Rustic Fence
Pipe Fence
Board Fence
Water Edge
Stream
Ditch
TOWN LINE
Riprap
Hedge Row
Tree Line
Shrub
Evergreen Tree
Deciduous Tree
Retaining Wall
Highway Line
Street Line
Property Line
Lot Line
Easement Line

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

DESIGNED BY:

DeCARLO & DOLL, INC.
89 COLONY STREET
MERIDEN, CONNECTICUT 06451

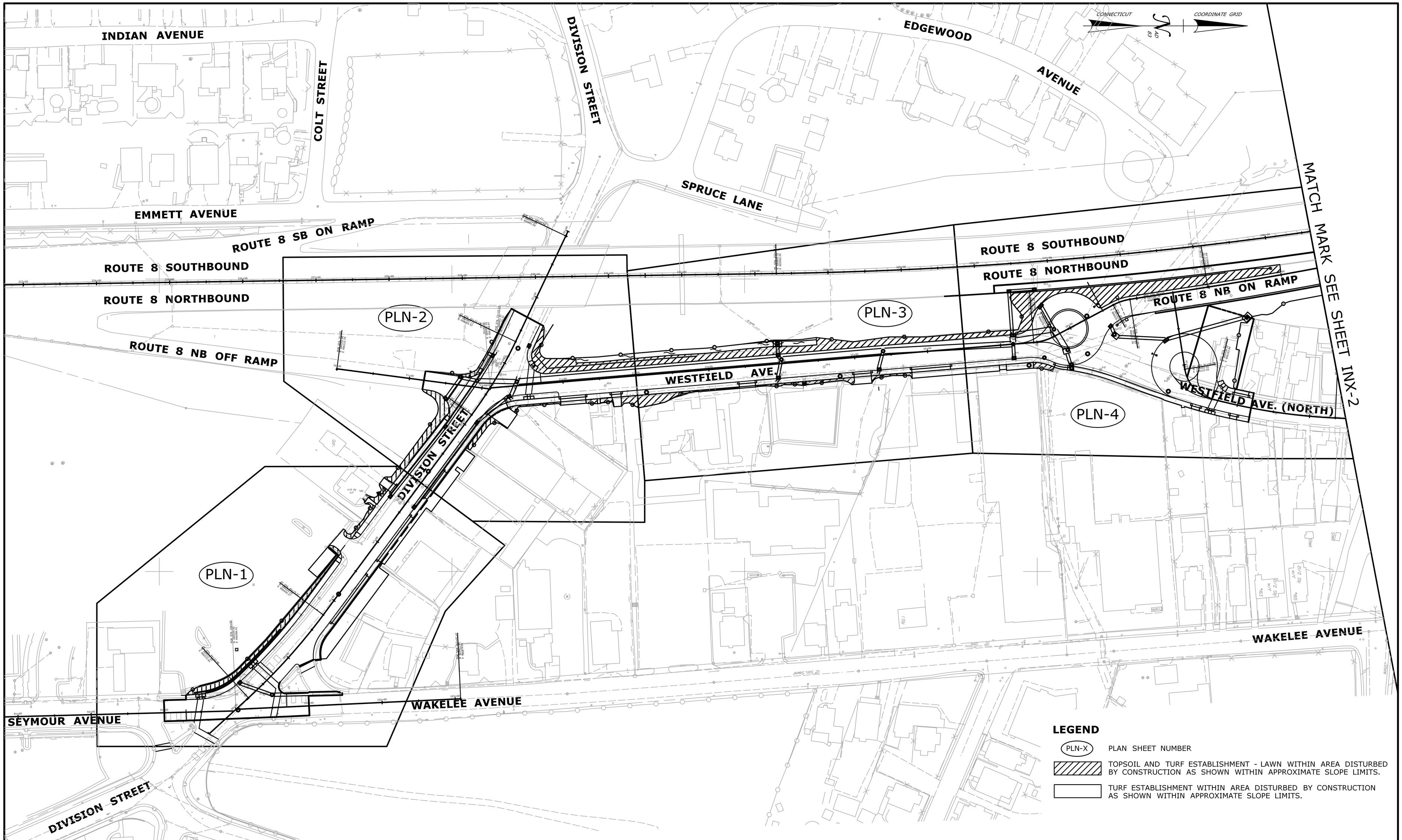
Plans For
ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

City of
ANSONIA AND DERBY

STATE PROJECT NO.
36-179

DRAWING NO.
G-1

SHEET NO.
01.01



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Plotted Date: 4/28/2014

DESIGNER/DRAFTER: RL/ETK

CHECKED BY: DD

SCALE IN FEET 0 60 120

SCALE 1"=60'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_INX-1.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:

ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

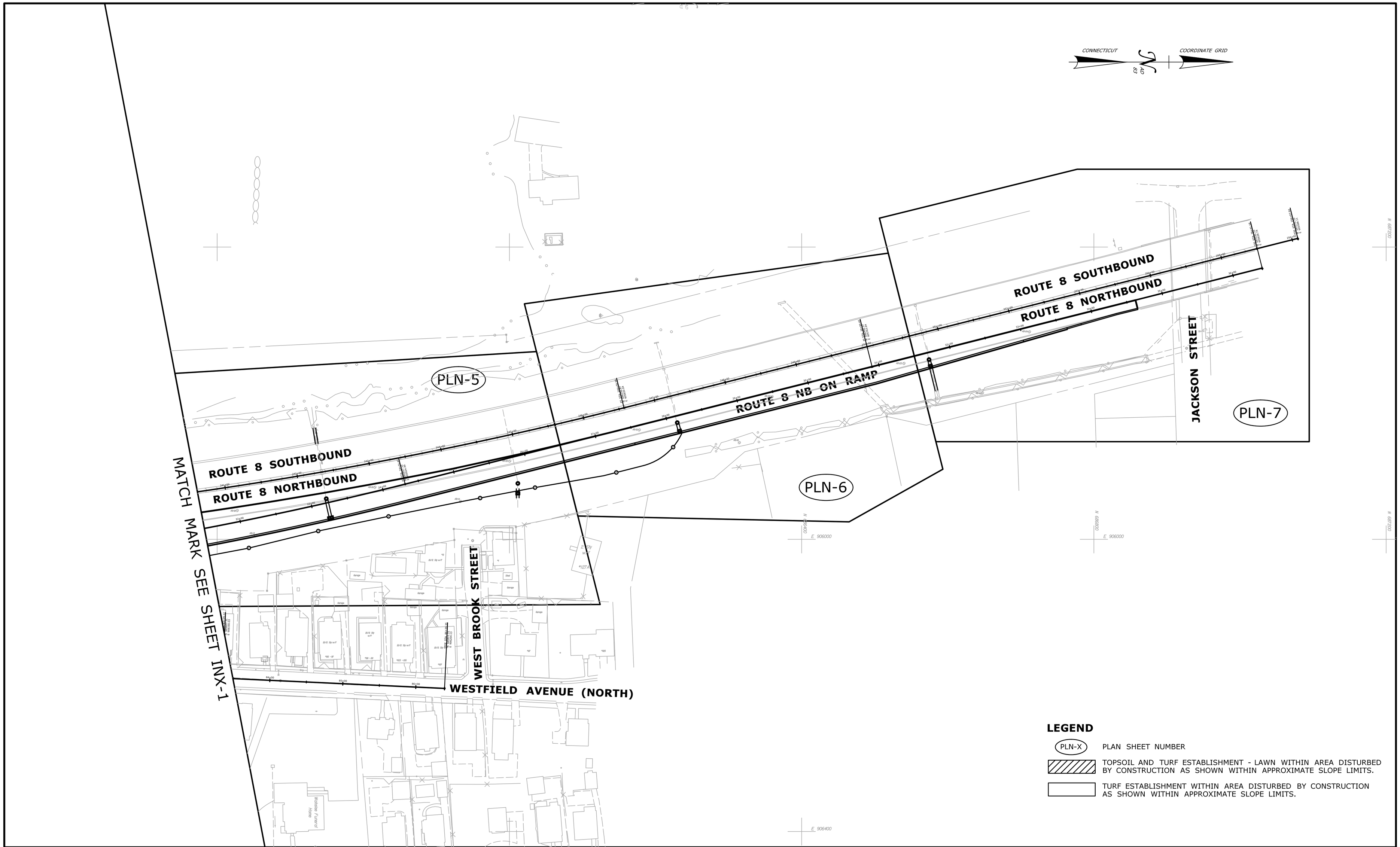
TOWN: ANSONIA AND DERBY

DRAWING TITLE: INDEX OF DRAWINGS

PROJECT NO. 36-179

DRAWING NO. INX-1

SHEET NO. 03.02



LEGEND

(PLN-X)	PLAN SHEET NUMBER
(hatched)	TOPSOIL AND TURF ESTABLISHMENT - LAWN WITHIN AREA DISTURBED BY CONSTRUCTION AS SHOWN WITHIN APPROXIMATE SLOPE LIMITS.
(outline)	TURF ESTABLISHMENT WITHIN AREA DISTURBED BY CONSTRUCTION AS SHOWN WITHIN APPROXIMATE SLOPE LIMITS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 4/28/2014

DESIGNER/DRAFTER: RL/ETK
CHECKED BY: DD
SCALE IN FEET 0 60 120
SCALE 1"=60'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_INX-2.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE: ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP

TOWN: ANSONIA AND DERBY

DRAWING TITLE: INDEX OF DRAWINGS

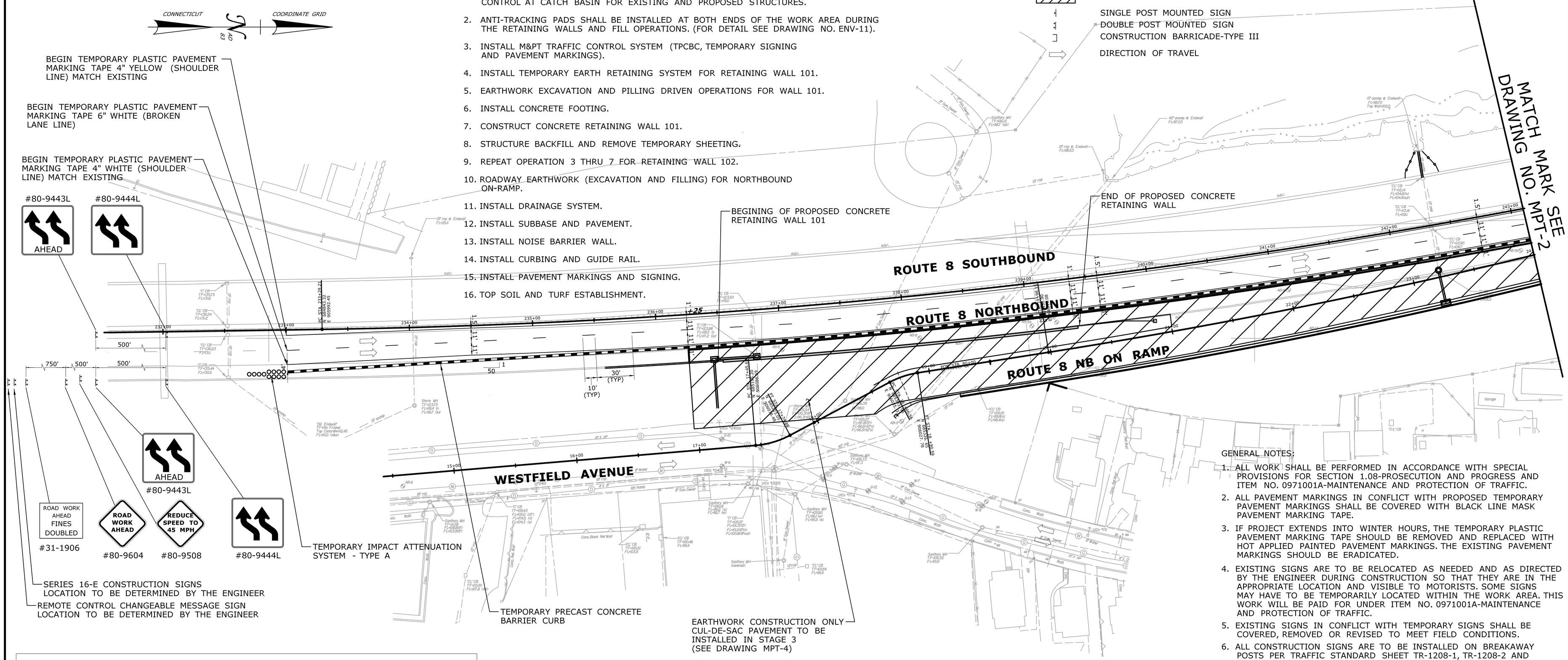
PROJECT NO. 36-179
DRAWING NO. INX-2
SHEET NO. 03.03

SEQUENCE OF OPERATION - STAGE 1

1. INSTALL SEDEMENTATION AND CONTROL SYSTEMS AS SHOWN AND SEDIMENTATION CONTROL AT CATCH BASIN FOR EXISTING AND PROPOSED STRUCTURES.
2. ANTI-TRACKING PADS SHALL BE INSTALLED AT BOTH ENDS OF THE WORK AREA DURING THE RETAINING WALLS AND FILL OPERATIONS. (FOR DETAIL SEE DRAWING NO. ENV-11).
3. INSTALL M&PT TRAFFIC CONTROL SYSTEM (TPCBC, TEMPORARY SIGNING AND PAVEMENT MARKINGS).
4. INSTALL TEMPORARY EARTH RETAINING SYSTEM FOR RETAINING WALL 101.
5. EARTHWORK EXCAVATION AND PILLING DRIVEN OPERATIONS FOR WALL 101.
6. INSTALL CONCRETE FOOTING.
7. CONSTRUCT CONCRETE RETAINING WALL 101.
8. STRUCTURE BACKFILL AND REMOVE TEMPORARY SHEETING.
9. REPEAT OPERATION 3 THRU 7 FOR RETAINING WALL 102.
10. ROADWAY EARTHWORK (EXCAVATION AND FILLING) FOR NORTHBOUND ON-RAMP.
11. INSTALL DRAINAGE SYSTEM.
12. INSTALL SUBBASE AND PAVEMENT.
13. INSTALL NOISE BARRIER WALL.
14. INSTALL CURBING AND GUIDE RAIL.
15. INSTALL PAVEMENT MARKINGS AND SIGNING.
16. TOP SOIL AND TURF ESTABLISHMENT.

LEGEND

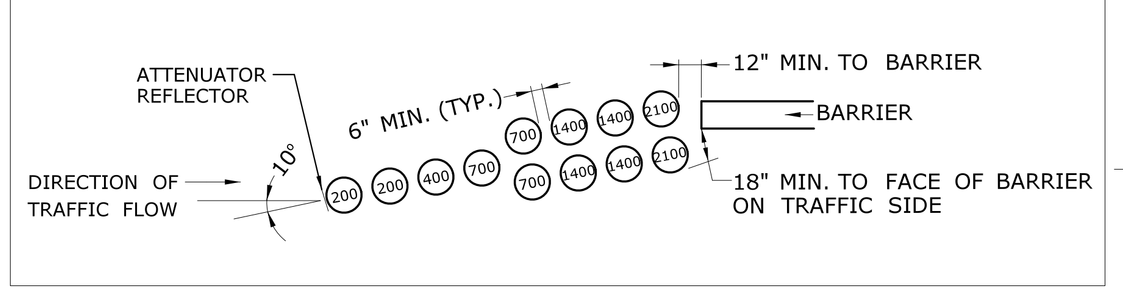
- WORK AREA
- SINGLE POST MOUNTED SIGN
- DOUBLE POST MOUNTED SIGN
- CONSTRUCTION BARRICADE-TYPE III
- DIRECTION OF TRAVEL



GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH SPECIAL PROVISIONS FOR SECTION 1.08-PROSECUTION AND PROGRESS AND ITEM NO. 0971001A-MAINTENANCE AND PROTECTION OF TRAFFIC.
2. ALL PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED TEMPORARY PAVEMENT MARKINGS SHALL BE COVERED WITH BLACK LINE MASK PAVEMENT MARKING TAPE.
3. IF PROJECT EXTENDS INTO WINTER HOURS, THE TEMPORARY PLASTIC PAVEMENT MARKING TAPE SHOULD BE REMOVED AND REPLACED WITH HOT APPLIED PAINTED PAVEMENT MARKINGS. THE EXISTING PAVEMENT MARKINGS SHOULD BE ERADICATED.
4. EXISTING SIGNS ARE 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 NO. 0971001A-MAINTENANCE AND PROTECTION OF TRAFFIC.
5. EXISTING SIGNS IN CONFLICT WITH TEMPORARY SIGNS SHALL BE COVERED, REMOVED OR REVISED TO MEET FIELD CONDITIONS.
6. ALL CONSTRUCTION SIGNS ARE TO BE INSTALLED ON BREAKAWAY POSTS PER TRAFFIC STANDARD SHEET TR-1208-1, TR-1208-2 AND TR-1220-2.
7. THE LOCATIONS OF TEMPORARY SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS.
8. ANY EXISTING SIGNING DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE STATE.
9. THE APPROPRIATE TYPE DE-7 DELINEATOR SHALL BE INSTALLED ON THE TPCBC AS SPECIFIED ON STANDARD SHEET TR-1205-01 "DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS". ATTENUATOR REFLECTOR SHALL BE SECURELY FASTENED TO LEAD MODULE OF THE TEMPORARY IMPACT ATTENUATION SYSTEM.
10. ALL TEMPORARY SIGNS SHALL BE PAID UNDER ITEM NO. 1220013A-"CONSTRUCTION SIGNS-BRIGHT FLUORESCENT SHEETING".
11. BARRICADE WARNING LIGHTS-HIGH INTENSITY SHALL BE MOUNTED ON ALL DIAMOND SHAPED POST-MOUNTED CONSTRUCTION SIGNS.
12. CONTRACTOR SHALL PLACE REMOTE CONTROL CHANGEABLE SIGN ON ROUTE 8 NORTHBOUND ONE TO TWO WEEKS PRIOR TO CONSTRUCTION.
13. CONTRACTOR SHALL LIMIT THE STRIPPING OF TOP SOIL TO THE WORK AREA FOR EACH PHASE OF CONSTRUCTION.
14. THE NEW RAMP SHALL REMAIN CLOSED UNTIL THE COMPLETION OF THE NOISE BARRIER WALL.

MODULE ARRANGEMENT FOR 55 MPH

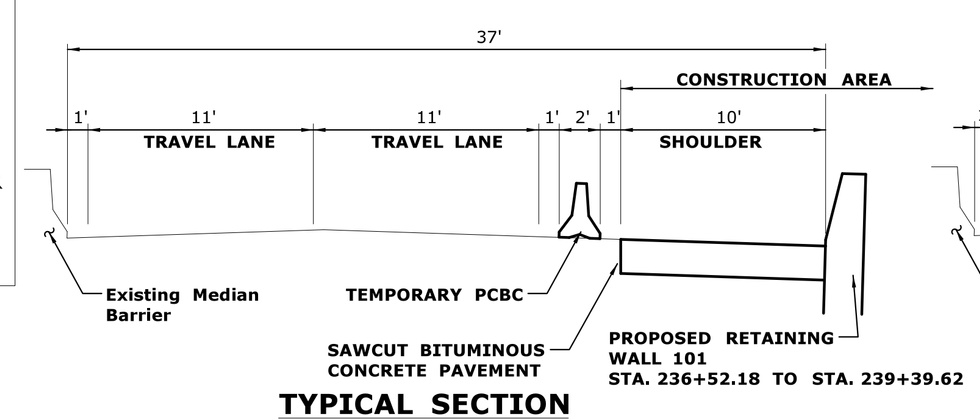


LEGEND

(400) TYPE A - IMPACT ATTENUATION MODULE, NUMBER IN CIRCLE (400) INDICATES MODULE MASS IN POUNDS.

TEMPORARY IMPACT ATTENUATION SYSTEM - TYPE A

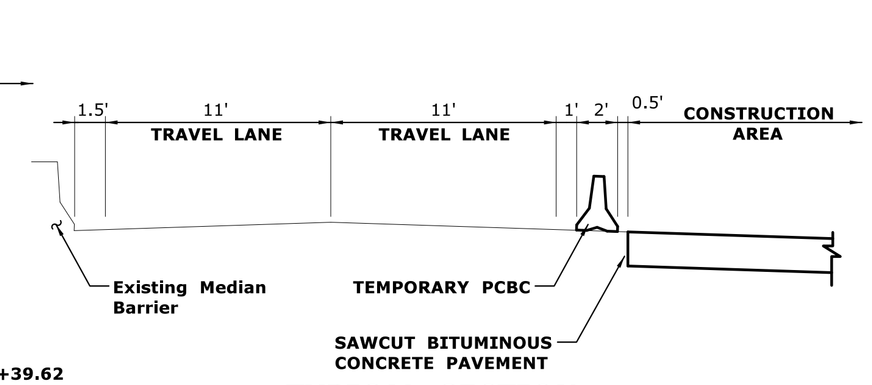
NOT TO SCALE



TYPICAL SECTION

STA. 236+25 TO STA. 239+40

NOT TO SCALE



TYPICAL SECTION

STA. 239+40 TO STA. 253+71

NOT TO SCALE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/11/2014

DESIGNER/DRAFTER: RL/ETK

CHECKED BY: DD

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_stage PLN-1.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE: ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP

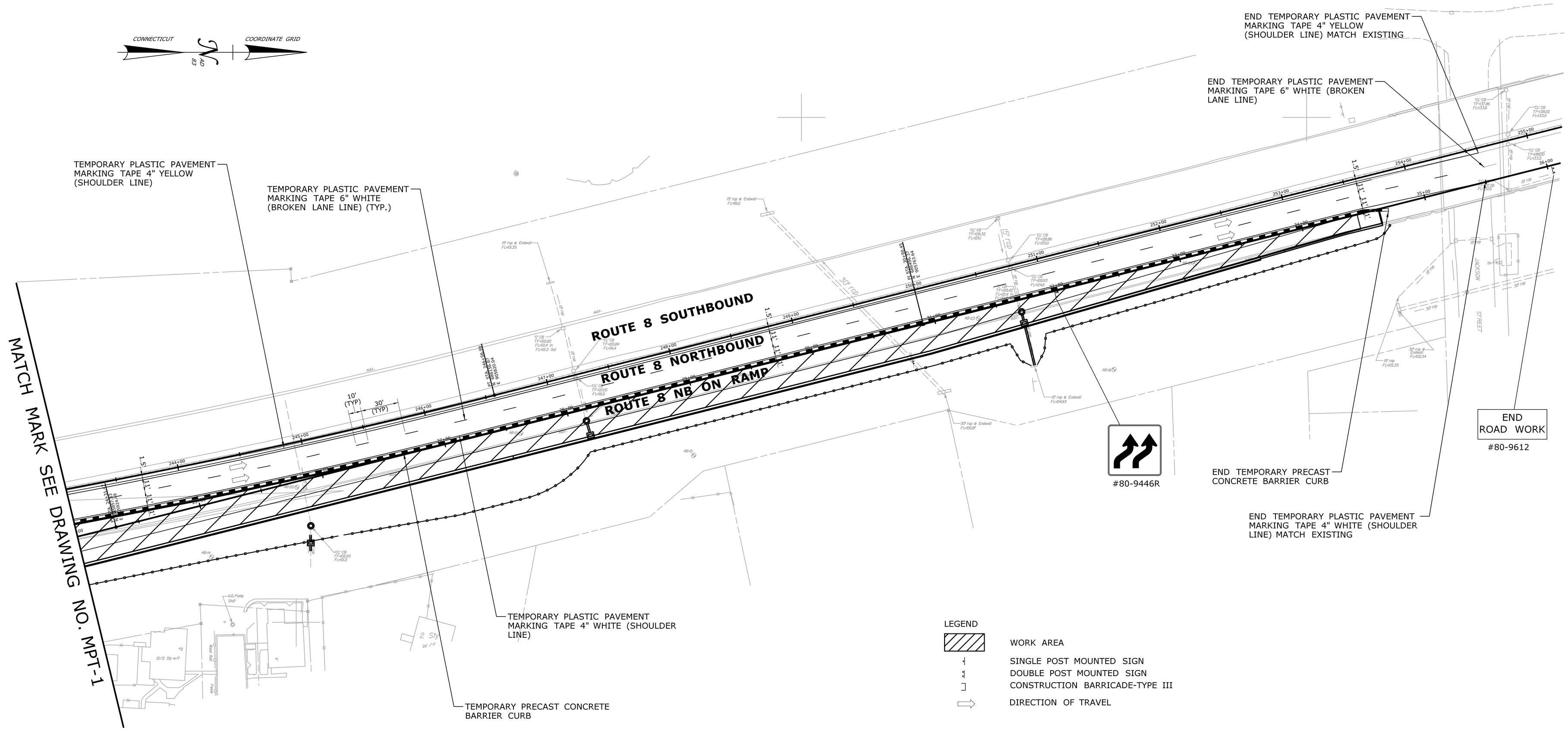
TOWN: ANSONIA AND DERBY

DRAWING TITLE: MAINTENANCE AND PROTECTION OF TRAFFIC PLAN STAGE 1

PROJECT NO. 36-179

DRAWING NO. MPT-1

SHEET NO. 04.02



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/11/2014

DESIGNER/DRAFTER: **RL/ETK**

CHECKED BY: **DD**

SCALE IN FEET

0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_stage PLN-2.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:

ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

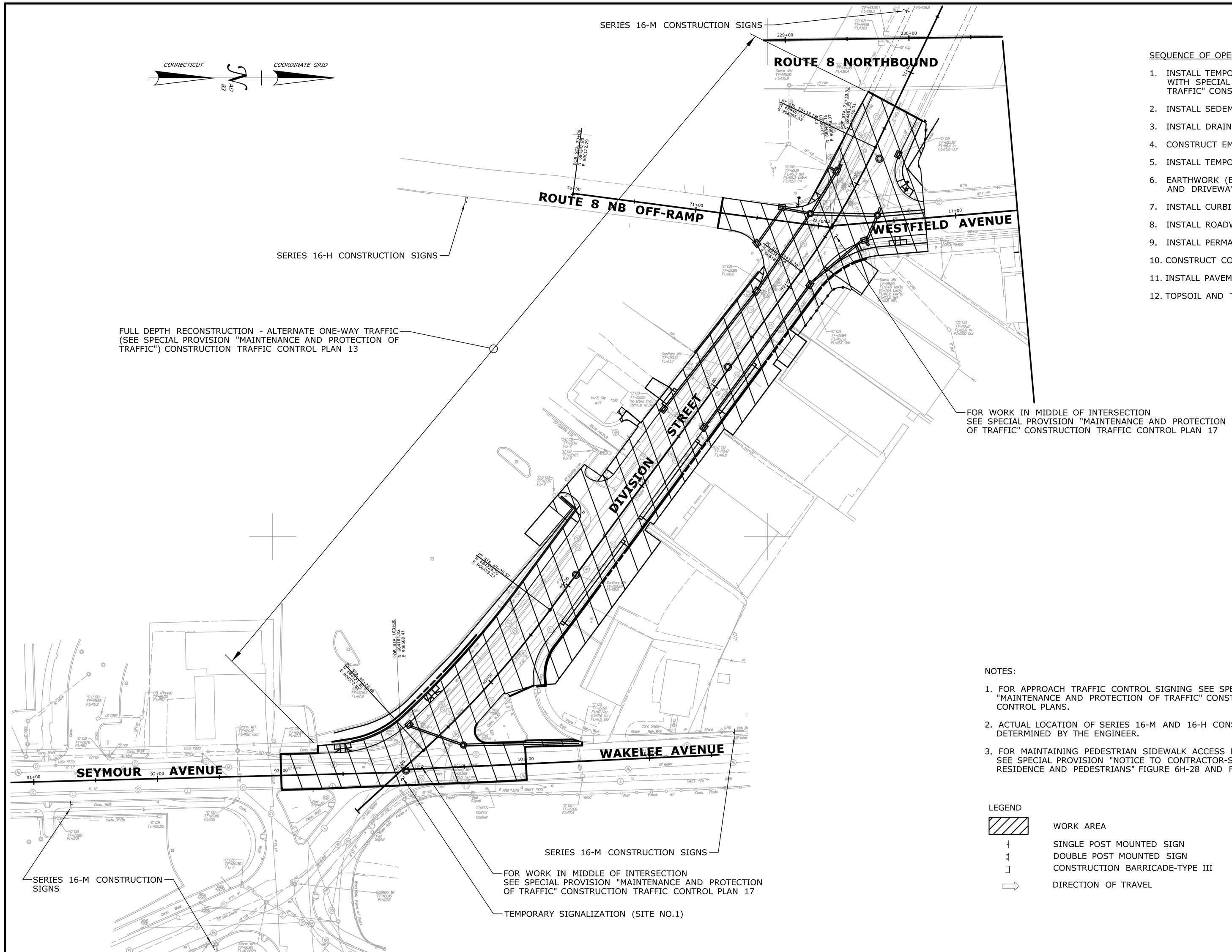
TOWN: **ANSONIA AND DERBY**

DRAWING TITLE: **MAINTENANCE AND PROTECTION OF TRAFFIC PLAN STAGE 1**

PROJECT NO. **36-179**

DRAWING NO. **MPT-2**

SHEET NO. **04.03**



SEQUENCE OF OPERATION - STAGE 2

1. INSTALL TEMPORARY M&PT TRAFFIC CONTROLS IN ACCORDANCE WITH SPECIAL PROVISION "MAINTENANCE AND PROTECTION OF TRAFFIC" CONSTRUCTION TRAFFIC CONTROL PLAN 13.
2. INSTALL SEDEMENTATION AND EROSION CONTROL SYSTEMS.
3. INSTALL DRAINAGE SYSTEM.
4. CONSTRUCT EMBANKMENT WALL.
5. INSTALL TEMPORARY TRAFFIC SIGNALIZATION (SITE NO. 1)
6. EARTHWORK (EXCAVATION AND FILL) INCLUDING SIDEWALK AND DRIVEWAY.
7. INSTALL CURBING.
8. INSTALL ROADWAY PAVEMENT.
9. INSTALL PERMANENT TRAFFIC SIGNALIZATION.
10. CONSTRUCT CONCRETE SIDEWALK AND DRIVEWAYS.
11. INSTALL PAVEMENT MARKINGS AND SIGNING.
12. TOPSOIL AND TURF ESTABLISHMENT.

NOTES:

1. FOR APPROACH TRAFFIC CONTROL SIGNING SEE SPECIAL PROVISION "MAINTENANCE AND PROTECTION OF TRAFFIC" CONSTRUCTION TRAFFIC CONTROL PLANS.
2. ACTUAL LOCATION OF SERIES 16-M AND 16-H CONSTRUCTION SIGNS SHALL BE DETERMINED BY THE ENGINEER.
3. FOR MAINTAINING PEDESTRIAN SIDEWALK ACCESS DURING CONSTRUCTION SEE SPECIAL PROVISION "NOTICE TO CONTRACTOR-SAFEGUARDING OF RESIDENCE AND PEDESTRIANS" FIGURE 6H-28 AND FIGURE 6H-29.

LEGEND

- WORK AREA
- SINGLE POST MOUNTED SIGN
- DOUBLE POST MOUNTED SIGN
- CONSTRUCTION BARRICADE-TYPE III
- DIRECTION OF TRAVEL

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/11/2014

DESIGNER/DRAFTER: RL/ETK
CHECKED BY: DD
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_stage PLN-3.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

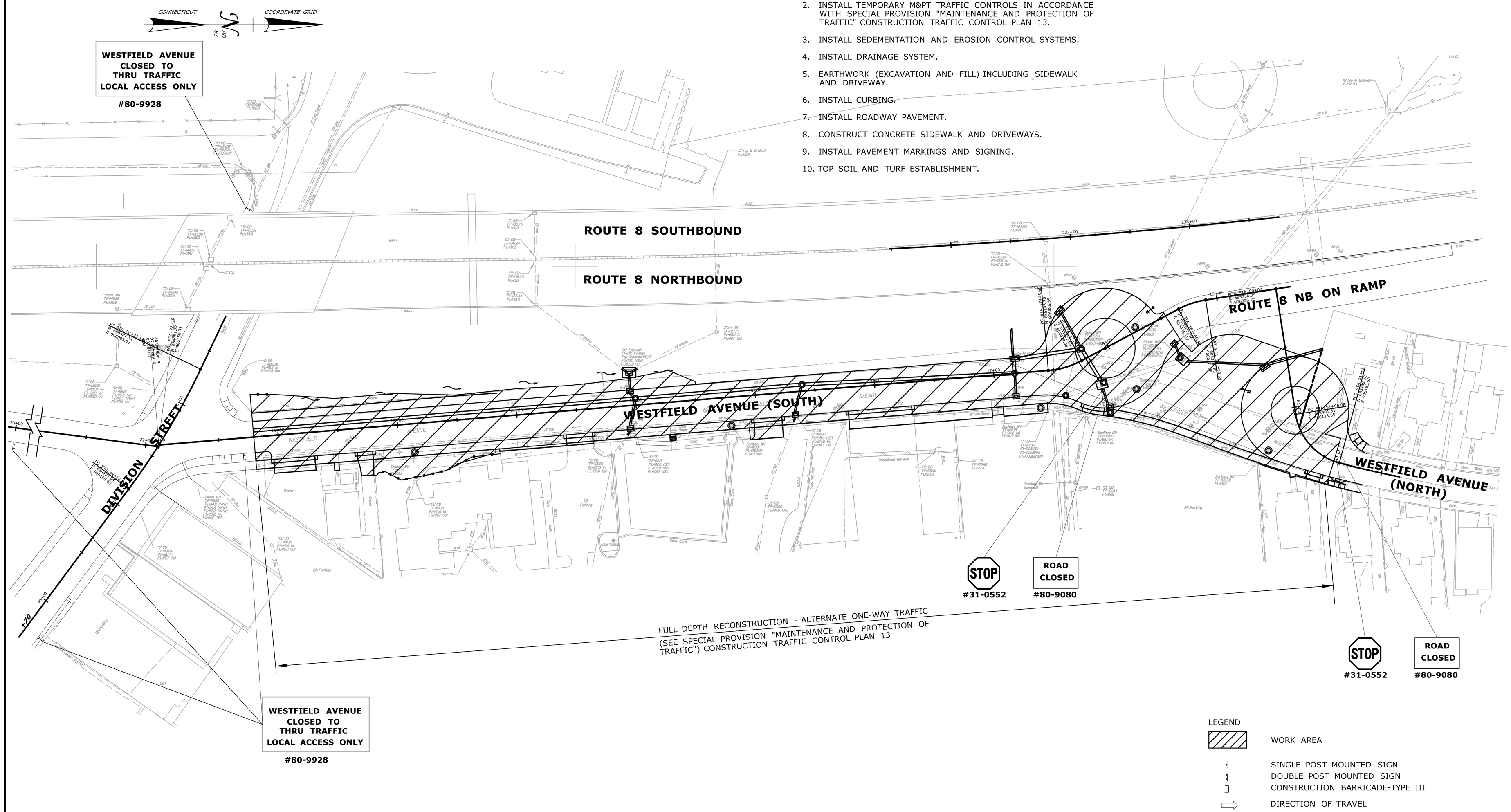
TOWN: ANSONIA AND DERBY

DRAWING TITLE: MAINTENANCE AND PROTECTION OF TRAFFIC PLAN STAGE 2

PROJECT NO. 36-179
DRAWING NO. MPT-3
SHEET NO. 04.04

SEQUENCE OF OPERATION - STAGE 3

1. INSTALL ROADWAY CLOSED SIGNS AS SHOWN ON THE PLAN.
2. INSTALL TEMPORARY M&PT TRAFFIC CONTROLS IN ACCORDANCE WITH SPECIAL PROVISION "MAINTENANCE AND PROTECTION OF TRAFFIC" CONSTRUCTION TRAFFIC CONTROL PLAN 13.
3. INSTALL SEDEMENTATION AND EROSION CONTROL SYSTEMS.
4. INSTALL DRAINAGE SYSTEM.
5. EARTHWORK (EXCAVATION AND FILL) INCLUDING SIDEWALK AND DRIVEWAY.
6. INSTALL CURBING.
7. INSTALL ROADWAY PAVEMENT.
8. CONSTRUCT CONCRETE SIDEWALK AND DRIVEWAYS.
9. INSTALL PAVEMENT MARKINGS AND SIGNING.
10. TOP SOIL AND TURF ESTABLISHMENT.



LEGEND

- WORK AREA
- SINGLE POST MOUNTED SIGN
- DOUBLE POST MOUNTED SIGN
- CONSTRUCTION BARRICADE-TYPE III
- DIRECTION OF TRAVEL

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/11/2014

DESIGNER/DRAFTER: RL/ETK

CHECKED BY: DD

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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_stage PLN-4.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

TOWN: ANSONIA AND DERBY

DRAWING TITLE: MAINTENANCE AND PROTECTION OF TRAFFIC PLAN STAGE 3

PROJECT NO. 36-179

DRAWING NO. MPT-4

SHEET NO. 04.05

CONNECTICUT | COORDINATE GRID

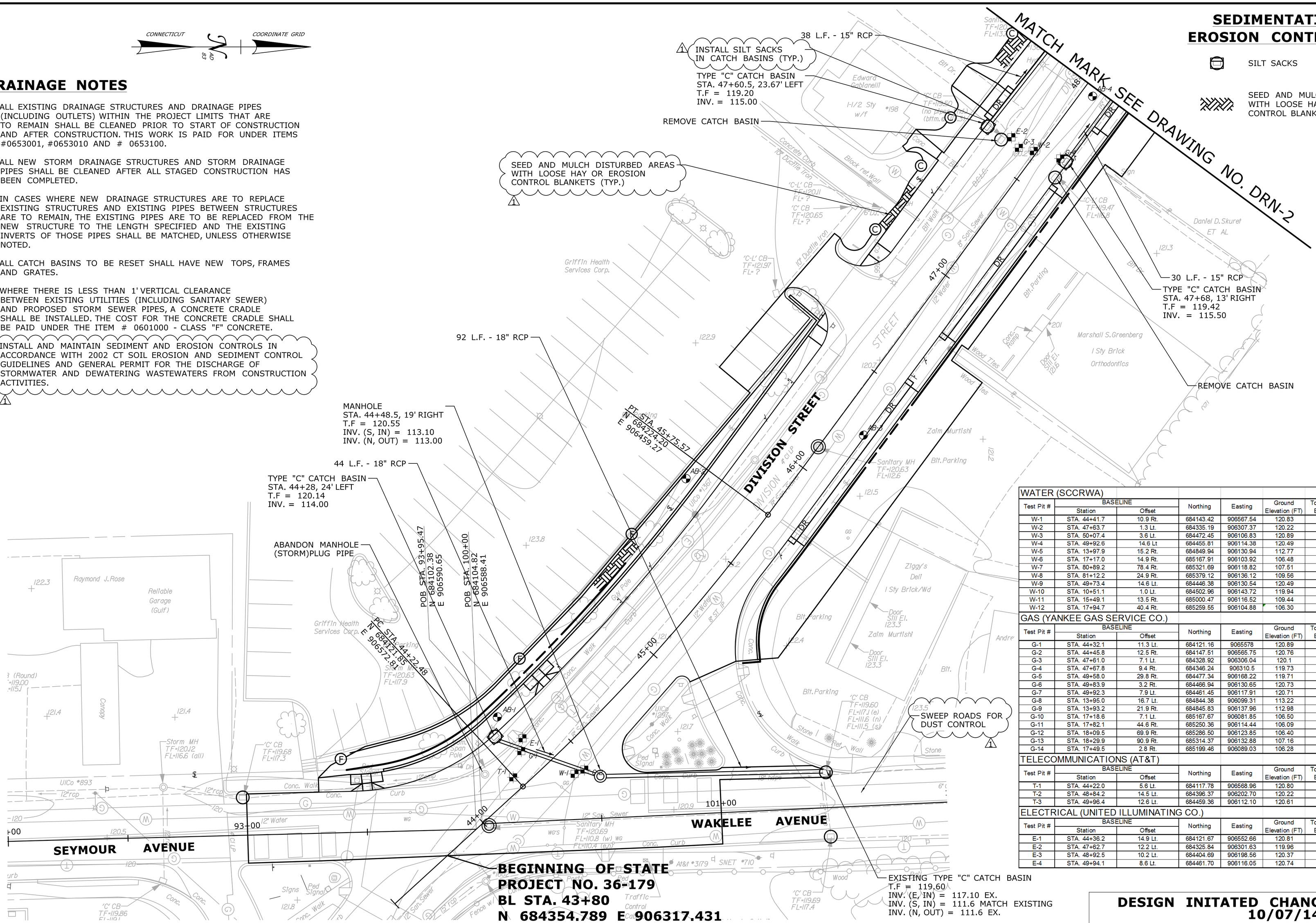
DRAINAGE NOTES

1. ALL EXISTING DRAINAGE STRUCTURES AND DRAINAGE PIPES (INCLUDING OUTLETS) WITHIN THE PROJECT LIMITS THAT ARE TO REMAIN SHALL BE CLEANED PRIOR TO START OF CONSTRUCTION AND AFTER CONSTRUCTION. THIS WORK IS PAID FOR UNDER ITEMS #0653001, #0653010 AND # 0653100.
2. ALL NEW STORM DRAINAGE STRUCTURES AND STORM DRAINAGE PIPES SHALL BE CLEANED AFTER ALL STAGED CONSTRUCTION HAS BEEN COMPLETED.
3. IN CASES WHERE NEW DRAINAGE STRUCTURES ARE TO REPLACE EXISTING STRUCTURES AND EXISTING PIPES BETWEEN STRUCTURES ARE TO REMAIN, THE EXISTING PIPES ARE TO BE REPLACED FROM THE NEW STRUCTURE TO THE LENGTH SPECIFIED AND THE EXISTING INVERTS OF THOSE PIPES SHALL BE MATCHED, UNLESS OTHERWISE NOTED.
4. ALL CATCH BASINS TO BE RESET SHALL HAVE NEW TOPS, FRAMES AND GRATES.
5. WHERE THERE IS LESS THAN 1' VERTICAL CLEARANCE BETWEEN EXISTING UTILITIES (INCLUDING SANITARY SEWER) AND PROPOSED STORM SEWER PIPES, A CONCRETE CRADLE SHALL BE INSTALLED. THE COST FOR THE CONCRETE CRADLE SHALL BE PAID UNDER THE ITEM # 0601000 - CLASS "F" CONCRETE.
6. INSTALL AND MAINTAIN SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH 2002 CT SOIL EROSION AND SEDIMENT CONTROL GUIDELINES AND GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES.

SEDIMENTATION AND EROSION CONTROL LEGEND

SILT SACKS

SEED AND MULCH DISTURBED AREAS WITH LOOSE HAY OR EROSION CONTROL BLANKETS (TYP.)



WATER (SCCRWA)								
Test Pit #	BASELINE Station	BASELINE Offset	Northing	Easting	Ground Elevation (FT)	Top of Pipe Elevation	Utility Description	Relocation Anticipated
W-1	STA. 44+41.7	10.9 Rt.	684143.42	906567.54	120.83	116.8	12" Water Main	No
W-2	STA. 47+63.7	1.3 Lt.	684335.19	906307.37	120.22	114.9	12" Water Main	No
W-3	STA. 50+07.4	3.6 Lt.	684472.45	906106.83	120.89	116	8" Water Main	No
W-4	STA. 49+92.6	14.6 Lt	684455.81	906114.38	120.49	115.6	12" Water Main	No
W-5	STA. 13+97.9	15.2 Rt.	684849.94	906130.94	112.77	106.4	8" Water Main	No
W-6	STA. 17+17.0	14.9 Rt.	685167.91	906103.82	106.48	102.6	8" AC Water Main	No
W-7	STA. 80+89.2	78.4 Rt.	685321.69	906118.82	107.51	103.1	8" Ac Water Main	No
W-8	STA. 81+12.2	24.9 Rt.	685379.12	906136.12	109.56	105.1	8" AC Water Main	No
W-9	STA. 49+73.4	14.6 Lt.	684446.38	906130.54	120.49	115.7	12" DIP Water Main	No
W-10	STA. 10+51.1	1.0 Lt.	684502.96	906143.72	119.94	113.9	8" AC Water Main	No
W-11	STA. 15+49.1	13.5 Rt.	685000.47	906116.52	109.44	105.1	8" AC Water Main	No
W-12	STA. 17+94.7	40.4 Rt.	685259.55	906104.88	106.30	101.8	8" AC Water Main	No

GAS (YANKEE GAS SERVICE CO.)								
Test Pit #	BASELINE Station	BASELINE Offset	Northing	Easting	Ground Elevation (FT)	Top of Pipe Elevation	Utility Description	Relocation Anticipated
G-1	STA. 44+32.1	11.3 Lt.	684121.16	9065578	120.89	117.9	4" CI Gas Main	No
G-2	STA. 44+45.8	12.5 Rt.	684147.51	906565.75	120.76	117.8	8" ST Gas Main	No
G-3	STA. 47+61.0	7.1 Lt.	684328.92	906306.04	120.1	117.1	4" CI Gas Main	No
G-4	STA. 47+67.8	9.4 Rt.	684346.24	906310.5	119.73	118.0	8" ST Gas Main	No
G-5	STA. 49+58.0	29.8 Rt.	684477.34	906168.22	119.71	117.5	4" ST Gas Main	No
G-6	STA. 49+83.9	3.2 Rt.	684466.94	906130.65	120.73	118.1	8" ST Gas Main	No
G-7	STA. 49+92.3	7.9 Lt.	684461.45	906117.91	120.71	116.9	4" CI Gas Main	No
G-8	STA. 13+95.0	16.7 Lt.	684844.38	906099.31	113.22	108.9	12" ST Gas Main	No
G-9	STA. 13+93.2	21.9 Rt.	684845.83	906137.96	112.98	111.0	4" ST Gas Main	No
G-10	STA. 17+18.6	7.1 Lt.	685167.67	906081.85	106.50	103.7	12" ST Gas Main	No
G-11	STA. 17+82.1	44.6 Rt.	685250.36	906114.44	106.09	103.1	12" ST Gas Main	No
G-12	STA. 18+09.5	69.9 Rt.	685286.50	906123.85	106.40	103.3	12" ST Gas Main	No
G-13	STA. 18+29.9	90.9 Rt.	685314.37	906132.88	107.16	104.3	12" ST Gas Main	No
G-14	STA. 17+49.5	2.8 Rt.	685199.46	906089.03	106.28	101.7	12" ST Gas Main	No

TELECOMMUNICATIONS (AT&T)								
Test Pit #	BASELINE Station	BASELINE Offset	Northing	Easting	Ground Elevation (FT)	Top of Duct Elevation	Utility Description	Relocation Anticipated
T-1	STA. 44+22.0	5.6 Lt.	684117.78	906568.96	120.80	117.7	Duct Bank	No
T-2	STA. 48+84.2	14.5 Lt.	684396.37	906202.70	120.22	117.6	Duct Bank	No
T-3	STA. 49+96.4	12.6 Lt.	684459.36	906112.10	120.61	116.8	Duct Bank	No

ELECTRICAL (UNITED ILLUMINATING CO.)								
Test Pit #	BASELINE Station	BASELINE Offset	Northing	Easting	Ground Elevation (FT)	Top of Duct Elevation	Utility Description	Relocation Anticipated
E-1	STA. 44+36.2	14.9 Lt.	684121.67	906552.66	120.81	118.2	Duct Bank	No
E-2	STA. 47+62.7	12.2 Lt.	684325.84	906301.63	119.96	117.4	Duct Bank	No
E-3	STA. 48+92.5	10.2 Lt.	684404.69	906198.56	120.37	117.8	Duct Bank	No
E-4	STA. 49+94.1	8.6 Lt.	684461.70	906116.05	120.74	118.2	Duct Bank	No

DESIGN INITATED CHANGE ORDER NO. 1
10/07/14

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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1	10/7/14	ADDED SED & EROSION CONTROL NOTES	03.32.C1

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Plotted Date: 10/7/2014

DESIGNER/DRAFTER: RL/ETK
CHECKED BY: DD
SCALE IN FEET 0 20 40
SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Drawings\CO1_HW_MSH_DRN-1.dgn

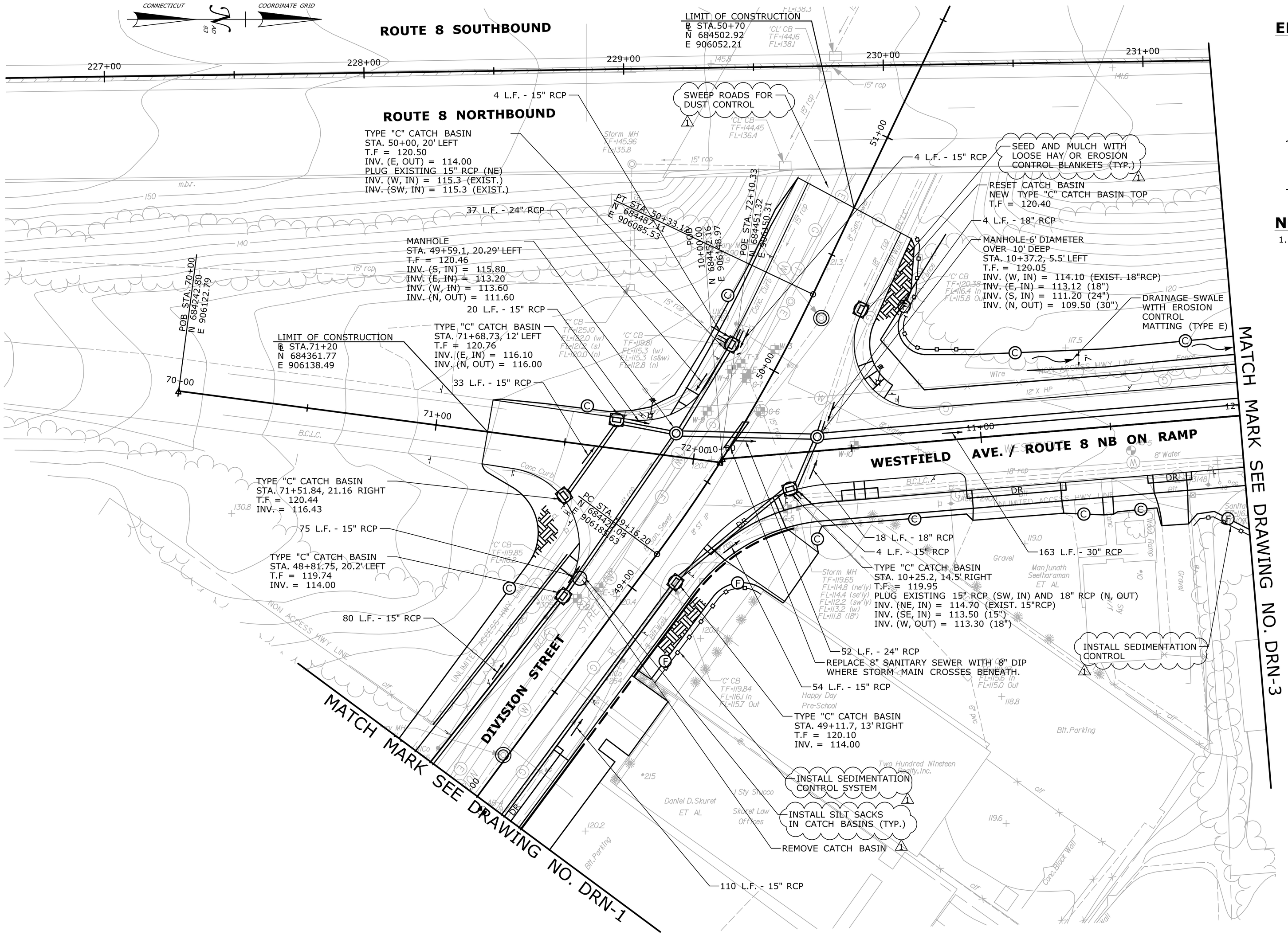
SIGNATURE/ BLOCK:

PROJECT TITLE: ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP

TOWN: ANSONIA AND DERBY

DRAWING TITLE: DRAINAGE PLAN
DIVISION STREET Sta. 43+80 To Sta. 48+00

PROJECT NO. 36-179
DRAWING NO. DRN-1
SHEET NO. 03.32.C1



SEDIMENTATION AND EROSION CONTROL LEGEND

- SILT SACKS
- SEED AND MULCH DISTURBED AREAS WITH LOOSE HAY OR EROSION CONTROL BLANKETS (TYP.)
- DRAINAGE SWALE WITH EROSION CONTROL MATTING
- SEDIMENTATION CONTROL SYSTEM

NOTES

1. SEE NOTE 6 ON DRN-1.

DESIGN INITATED CHANGE ORDER NO. 1
10/07/14

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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1	10/7/14	ADDED SED & EROSION CONTROL NOTES	03.33.C1

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Plotted Date: 10/9/2014

DESIGNER/DRAFTER: **RL/ETK**
CHECKED BY: **DD**
SCALE IN FEET 0 20 40
SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Drawings\CO1_HW_MSH_DRN-2.dgn

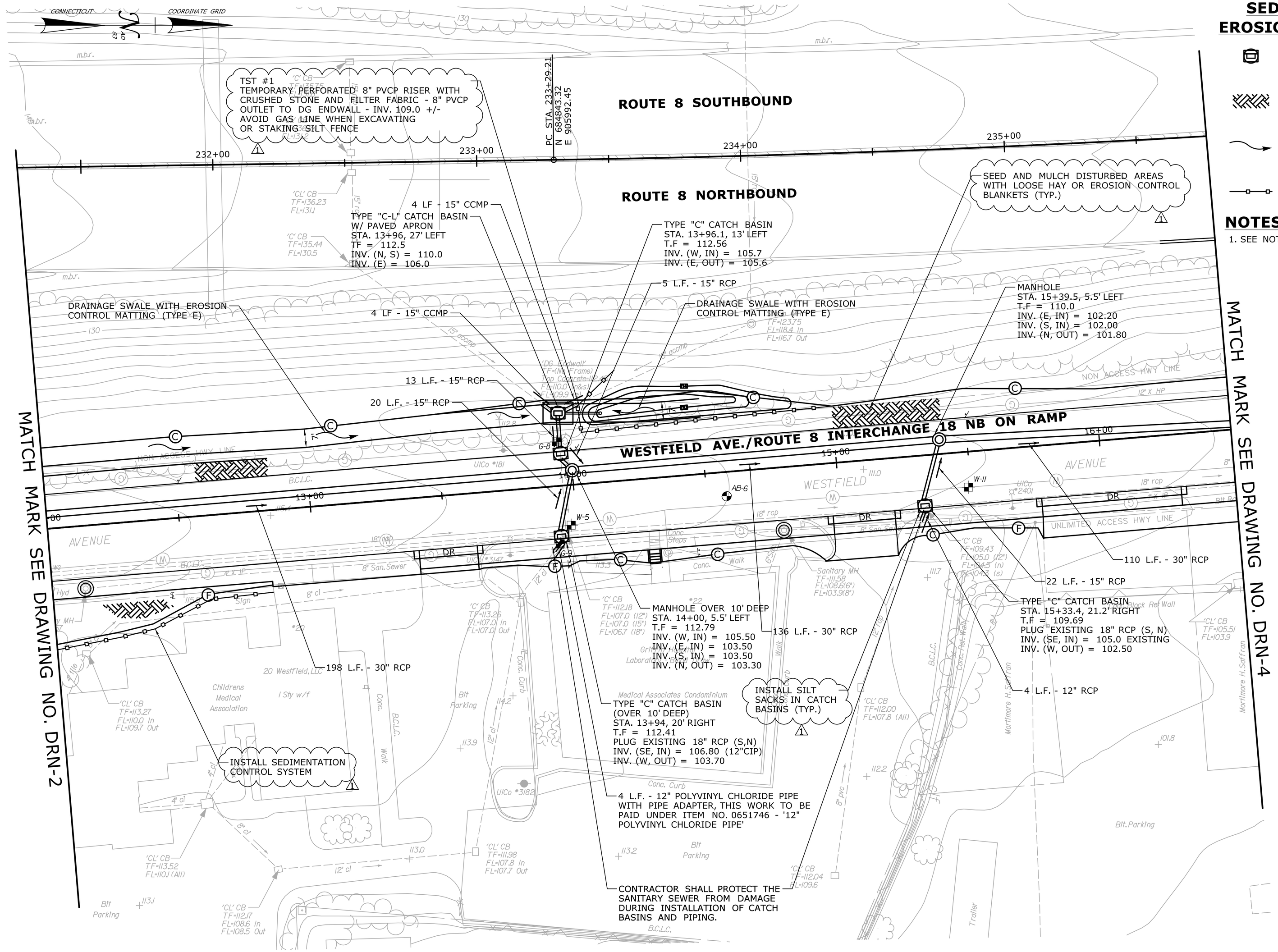
SIGNATURE/ BLOCK:

PROJECT TITLE:
ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

TOWN: **ANSONIA AND DERBY**

DRAWING TITLE: **DRAINAGE PLAN**
DIVISION STREET Sta. 48+00 To Sta. 51+00
ROUTE 8 INTERCHANGE 18 NB OFF RAMP Sta. 70+00 To Sta. 72+10.33
WESTFIELD AVE./ROUTE 8 INTERCHANGE 18 NB ON RAMP Sta. 10+00 To Sta. 12+00

PROJECT NO. **36-179**
DRAWING NO. **DRN-2**
SHEET NO. **03.33.C1**



SEDIMENTATION AND EROSION CONTROL LEGEND

- SILT SACKS
- SEED AND MULCH DISTURBED AREAS WITH LOOSE HAY OR EROSION CONTROL BLANKETS (TYP.)
- DRAINAGE SWALE WITH EROSION CONTROL MATTING
- SEDIMENTATION CONTROL SYSTEM

NOTES

1. SEE NOTE 6 ON DRN-1.

DESIGN INITATED CHANGE ORDER NO. 1
10/07/14

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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1	10/7/14	ADDED SED & EROSION CONTROL NOTES	03.34.C1

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Plotted Date: 10/9/2014

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CHECKED BY: **DD**
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SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ..\Drawings\CO1_HW_MSH_DRN-3.dgn

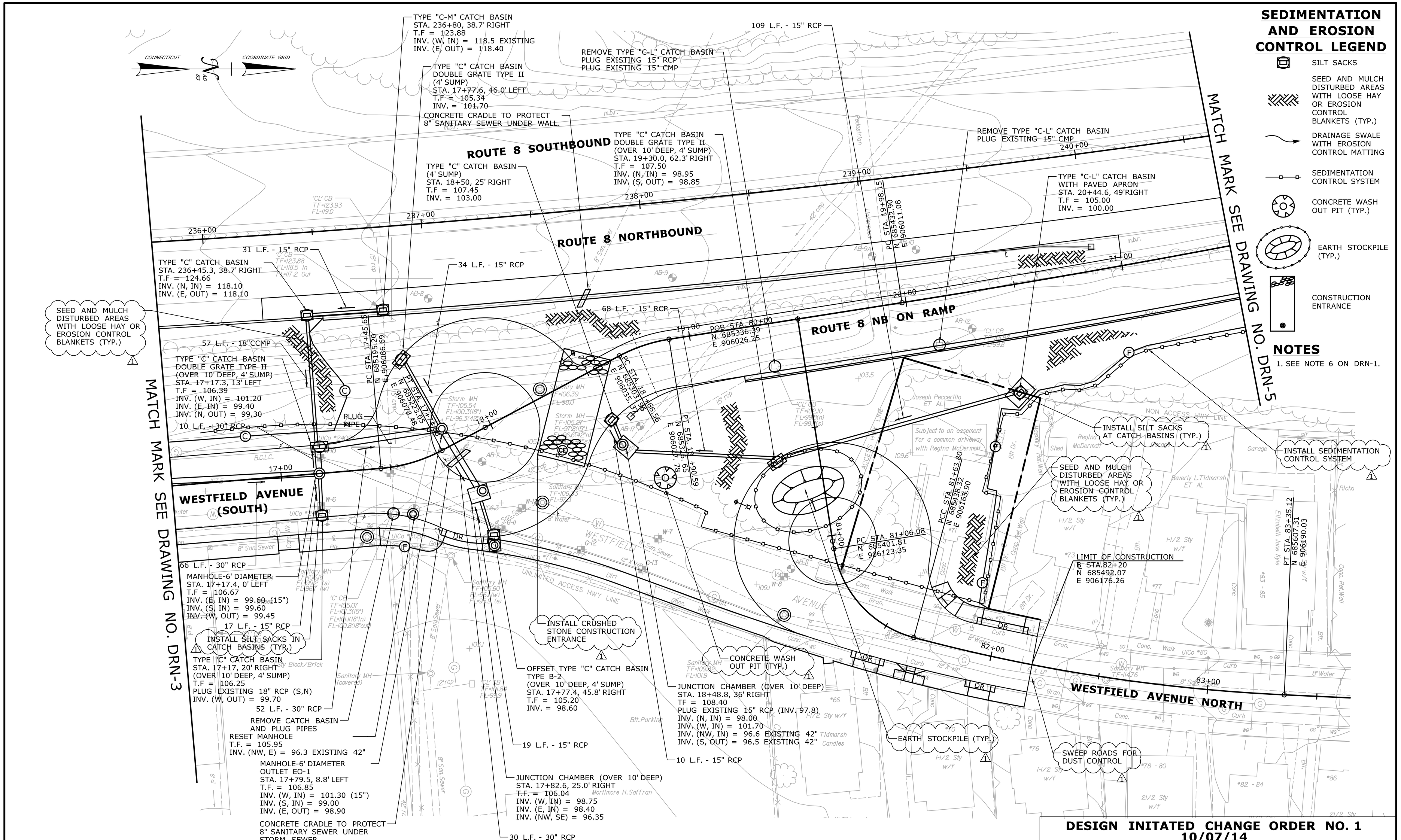
SIGNATURE/ BLOCK:

PROJECT TITLE:
ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

TOWN: **ANSONIA AND DERBY**

DRAWING TITLE: **DRAINAGE PLAN**
WESTFIELD AVE./ROUTE 8 INTERCHANGE 18 NB ON RAMP Sta. 12+00 To Sta. 16+50
ROUTE 8 Sta. 231+25.86 To Sta. 235+76.64

PROJECT NO. **36-179**
DRAWING NO. **DRN-3**
SHEET NO. **03.34.C1**



SEDIMENTATION AND EROSION CONTROL LEGEND

- SILT SACKS
- SEED AND MULCH DISTURBED AREAS WITH LOOSE HAY OR EROSION CONTROL BLANKETS (TYP.)
- DRAINAGE SWALE WITH EROSION CONTROL MATTING
- SEDIMENTATION CONTROL SYSTEM
- CONCRETE WASH OUT PIT (TYP.)
- EARTH STOCKPILE (TYP.)
- CONSTRUCTION ENTRANCE

NOTES

1. SEE NOTE 6 ON DRN-1.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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1	10/7/14	ADDED SED & EROSION CONTROL NOTES	03.35.C1

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CHECKED BY: **DD**

SCALE IN FEET 0 20 40

SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Drawings\CO1_HW_MSH_DRN-4.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:

ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

TOWN: **ANSONIA AND DERBY**

DRAWING TITLE: **DRAINAGE PLAN**

WESTFIELD AVE./ROUTE 8 INTERCHANGE 18 NB ON RAMP Sta. 16+50 To Sta. 21+50
WESTFIELD AVENUE NORTH Sta. 80+00 to Sta. 84+00
ROUTE 8 Sta. 235+76.64 To Sta. 240+61.64

PROJECT NO. **36-179**

DRAWING NO. **DRN-4**

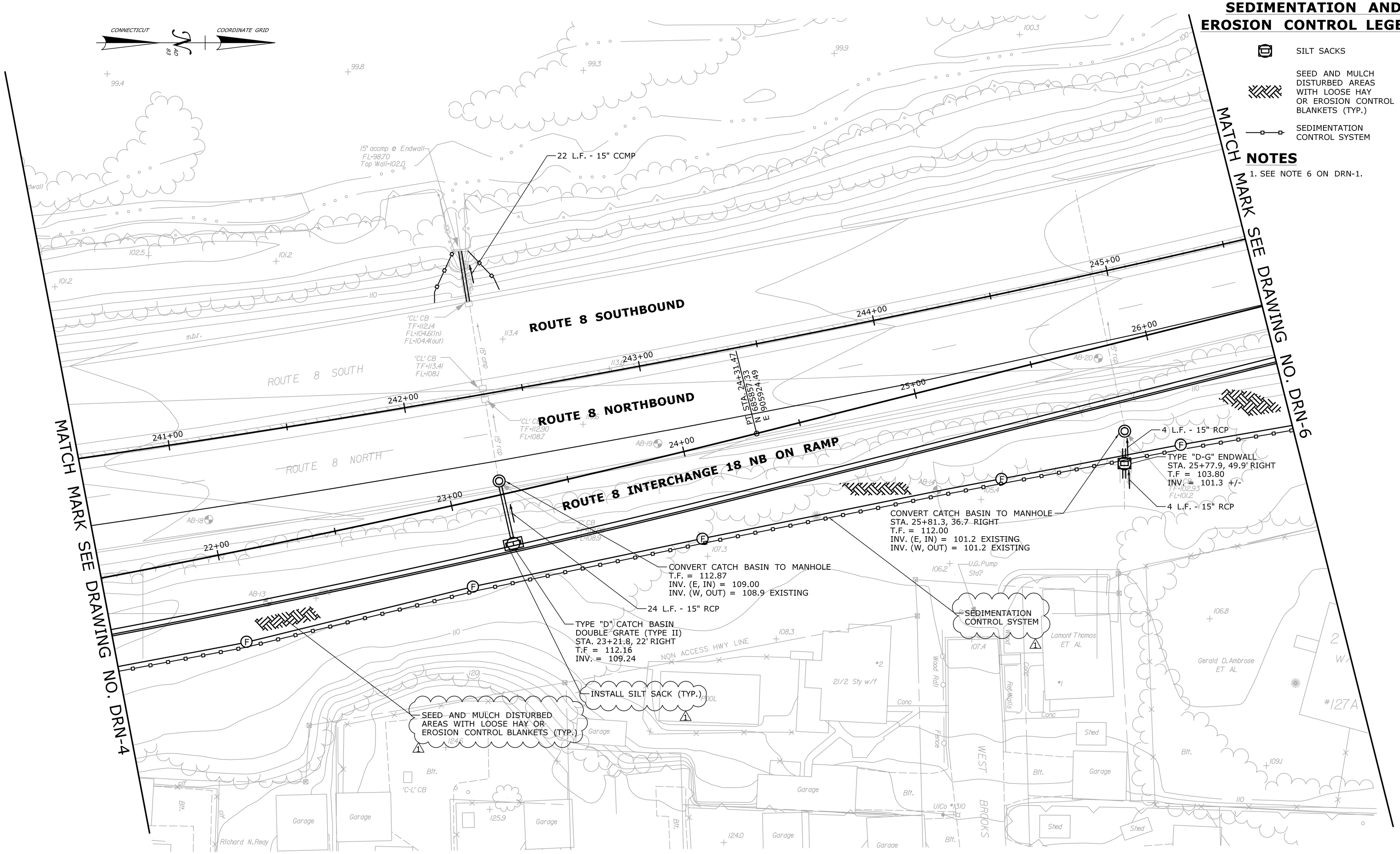
SHEET NO. **03.35.C1**

SEDIMENTATION AND EROSION CONTROL LEGEND

- SILT SACKS
- SEED AND MULCH DISTURBED AREAS WITH LOOSE HAY OR EROSION CONTROL BLANKETS (TYP.)
- SEDIMENTATION CONTROL SYSTEM

NOTES

1. SEE NOTE 6 ON DRN-1.



DESIGN INITATED CHANGE ORDER NO. 1
10/07/14

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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1	10/7/14	ADDED SED & EROSION CONTROL NOTES	03.36.C1

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SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Drawings\CO1_HW_MSH_DRN-5.dgn

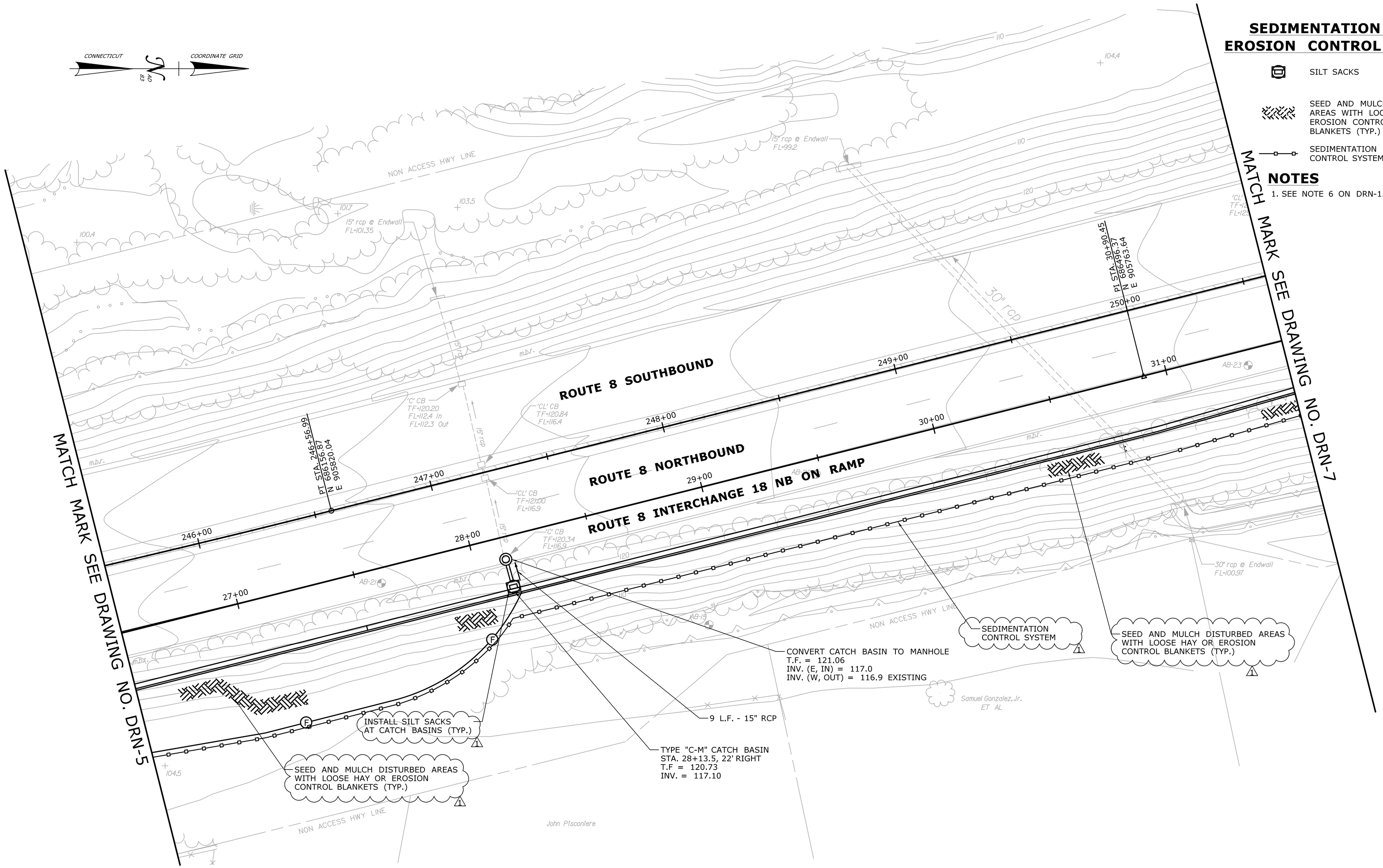
SIGNATURE/
BLOCK:

PROJECT TITLE:
ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

TOWN: **ANSONIA AND DERBY**

DRAWING TITLE: **DRAINAGE PLAN**
WESTFIELD AVE./ROUTE 8 INTERCHANGE 18 NB ON RAMP Sta. 21+50 To Sta. 26+50
ROUTE 8 Sta. 240+61.64 To Sta. 245+59.54

PROJECT NO. **36-179**
DRAWING NO. **DRN-5**
SHEET NO. **03.36.C1**



SEDIMENTATION AND EROSION CONTROL LEGEND

SILT SACKS

SEED AND MULCH DISTURBED AREAS WITH LOOSE HAY OR EROSION CONTROL BLANKETS (TYP.)

SEDIMENTATION CONTROL SYSTEM

NOTES

1. SEE NOTE 6 ON DRN-1.

DESIGN INITATED CHANGE ORDER NO. 1
10/07/14

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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1	10-7-14	ADDED SED & EROSION CONTROL NOTES	03.37.C1

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SCALE IN FEET 0 20 40
SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Drawings\CO1_HW_MSH_DRN-6.dgn

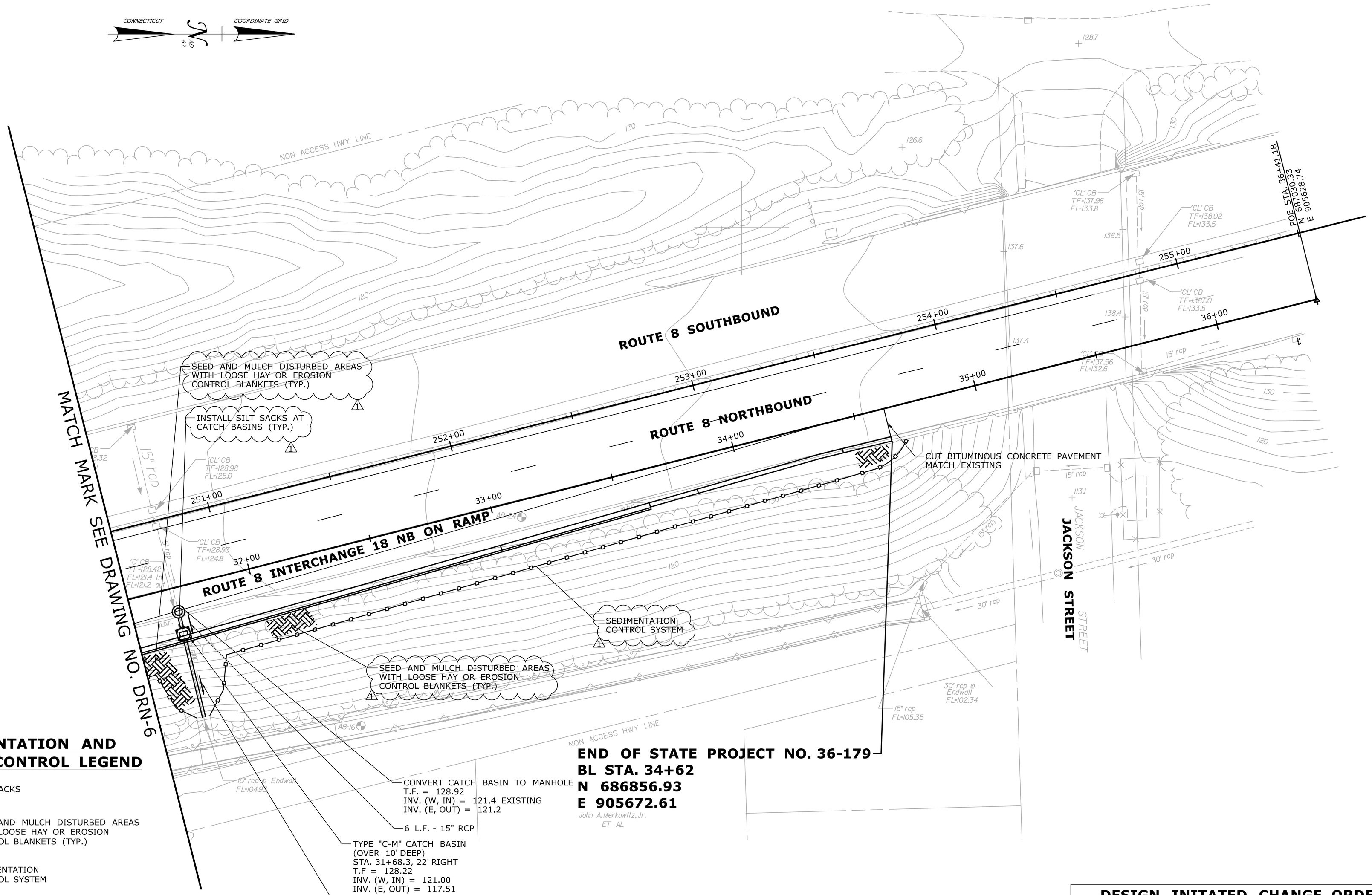
SIGNATURE/
BLOCK:

PROJECT TITLE:
ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

TOWN: **ANSONIA AND DERBY**

DRAWING TITLE: **DRAINAGE PLAN**
WESTFIELD AVE./ROUTE 8 INTERCHANGE 18 NB ON RAMP Sta. 26+50 To Sta. 31+50
ROUTE 8 Sta. 245+59.54 To Sta. 250+59.53

PROJECT NO. **36-179**
DRAWING NO. **DRN-6**
SHEET NO. **03.37.C1**



SEDIMENTATION AND EROSION CONTROL LEGEND

- SILT SACKS
- SEED AND MULCH DISTURBED AREAS WITH LOOSE HAY OR EROSION CONTROL BLANKETS (TYP.)
- SEDIMENTATION CONTROL SYSTEM

NOTES

1. SEE NOTE 6 ON DRN-1.

DESIGN INITATED CHANGE ORDER NO. 1
10/07/14

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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1	10/7/14	ADDED SED & EROSION CONTROL NOTES	03.38.C1

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DESIGNER/DRAFTER: RL/ETK
CHECKED BY: DD
SCALE IN FEET 0 20 40
SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Drawings\CO1_HW_MSH_DRN-7.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

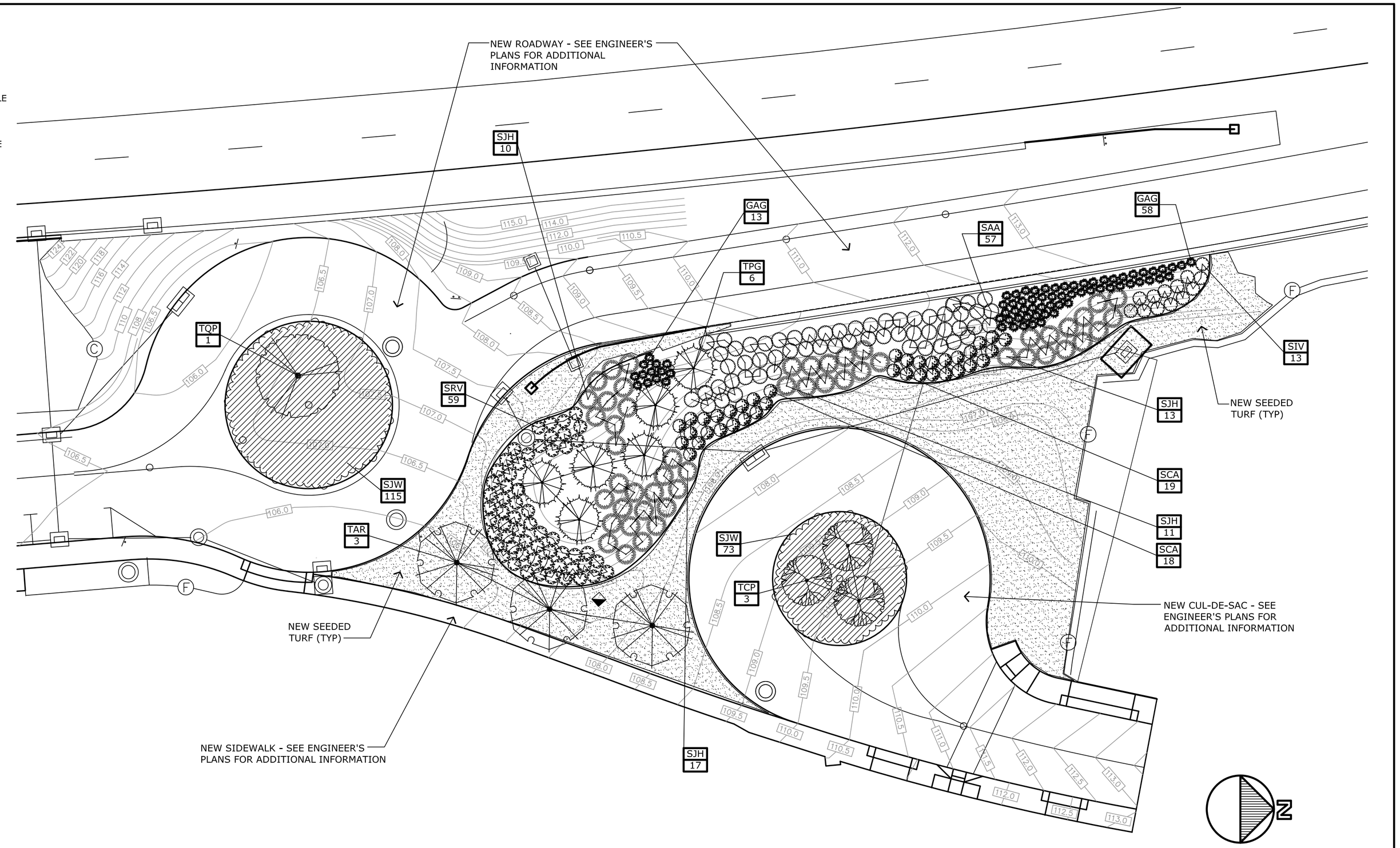
TOWN: ANSONIA AND DERBY

DRAWING TITLE: DRAINAGE PLAN
WESTFIELD AVE./ROUTE 8 INTERCHANGE 18 NB ON RAMP Sta. 31+50 To Sta. 36+00
ROUTE 8 Sta. 250+59.53 To Sta. 255+50.00

PROJECT NO. 36-179
DRAWING NO. DRN-7
SHEET NO. 03.38.C1

LEGEND

- PROPOSED CATCH BASIN
- PROPOSED CATCH BASIN WITH MANHOLE
- PROPOSED TRAFFIC SIGNAL STRUCTURE
- PROPOSED SEWER MANHOLE
- 107.5 — PROPOSED CONTOUR
- TCC 1 — PROPOSED PLANT KEY TOP = KEY, BOTTOM = QUANTITY
- PROPOSED SHRUBS AND GRASSES
- PROPOSED EVERGREEN TREE
- PROPOSED DECIDUOUS TREE



PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
TAR	3	Acer rubrum `October Glory` TM	October Glory Maple	B & B	2 1/2"-3" Cal	
TCP	3	Crataegus phaenopyrum	Washington Hawthorn	B & B		6-8` HT
TPG	6	Picea glauca	White Spruce	B & B		6-8` HT
TQP	1	Quercus palustris	Pin Oak	B & B	2 1/2"-3" Cal	

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT
SAA	57	Aronia arbutifolia	Red Chokeberry	2`-3` ht/B&B
SCA	37	Clethra alnifolia	Summersweet Clethra	2`-3` ht/B&B
SIV	13	Ilex verticillata	Winterberry	2`-3` ht/B&B
SJH	51	Juniperus chinensis `Hetzii`	Hetzi Juniper	18"-24" spd

GRASSES	QTY	BOTANICAL NAME	COMMON NAME	CONT
GAG	71	Andropogon scoparium	Little Bluestem Grass	1 gal

ROSES	QTY	BOTANICAL NAME	COMMON NAME	CONT
SRV	59	Rosa virginiana	Virginia Rose	15"-18" Spd/5 Gal

SHRUB AREAS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING
SJW	188	Juniperus horizontalis `Wiltonii`	Blue Rug Juniper	18``-24`` Spd/B&B	4' O.C.

GENERAL NOTES

1. EXISTING AND PROPOSED TOPOGRAPHIC AND UTILITY INFORMATION WAS TAKEN FROM A CAD FILE TITLED "HW_MST_P-CONTOURS_MDL.DWG" AS PROVIDED BY LUCHS CONSULTING ENGINEERS, LLC, 89 COLONY STREET, MERIDEN, CT, DATE 10/23/13 . CONTRACTOR WILL VERIFY IN THE FIELD AND NOTIFY CIVIL ENGINEER OF ANY DISCREPANCY.

2. EXISTING UTILITY INFORMATION IS BASED ON AVAILABLE INFORMATION AND ALL UTILITIES MAY NOT BE SHOWN. CONTRACTOR WILL CALL "CALL BEFORE YOU DIG" 1-800-922-4455 AND HAVE ALL UTILITIES MARKED ON THE GROUND PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.

3. ALL PROPOSED GRADING IS SHOWN FOR REFERENCE ONLY, TO ASSIST WITH PLACEMENT OF PLANT MATERIAL. CONTRACTOR WILL REFER TO CIVIL ENGINEER'S DRAWINGS FOR EXACT GRADING AND ADDITIONAL UTILITY INFORMATION. CONTRACTOR WILL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES THAT MAY AFFECT PLACEMENT OF PROPOSED PLANT MATERIAL FOR DIRECTION.

Didona Associates-Landscape Architects, LLC
70 North Street
Danbury, CT 06810

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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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.

Plotted Date: 04/15/14

DESIGNER/DRAFTER: **DC, KB**
CHECKED BY: **JD**
SCALE IN FEET 0 20 40
SCALE 1" = 20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

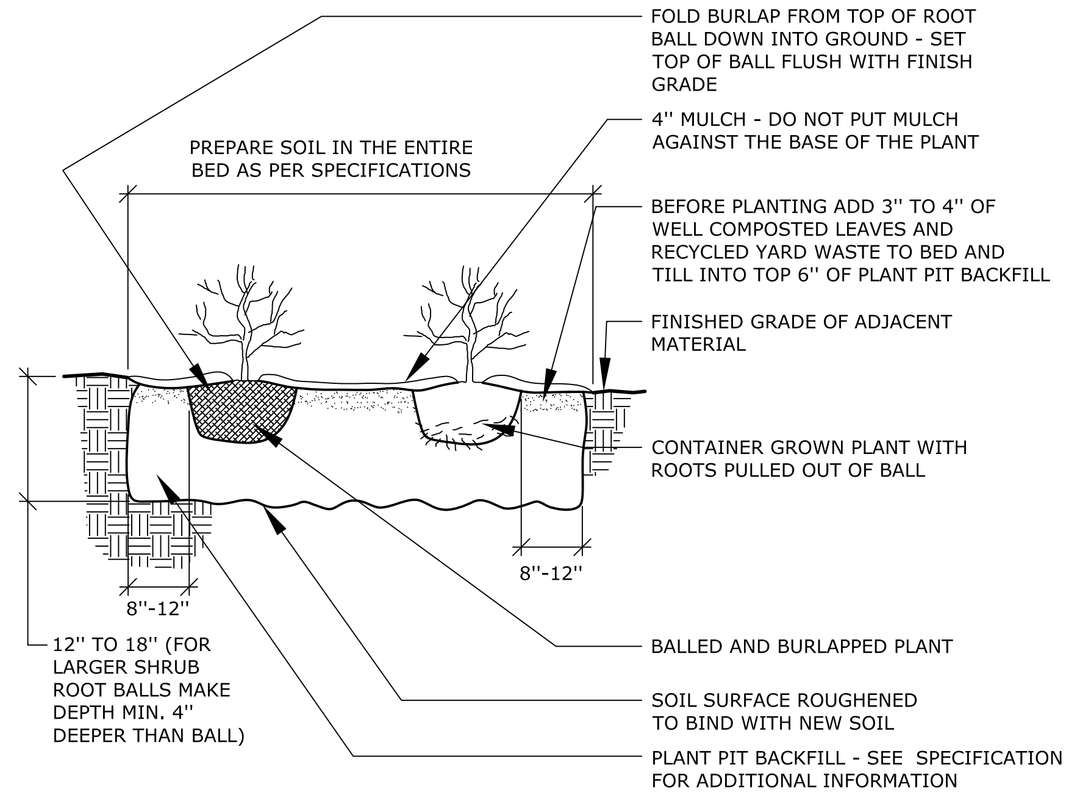
PROJECT TITLE:
ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

TOWN: **ANSONIA AND DERBY CONNECTICUT**

DRAWING TITLE: **LANDSCAPING PLAN**

PROJECT NO. **36-179**
DRAWING NO. **LDS-1**
SHEET NO. **03.83**

Border Version: 11/14/08



NOTES:

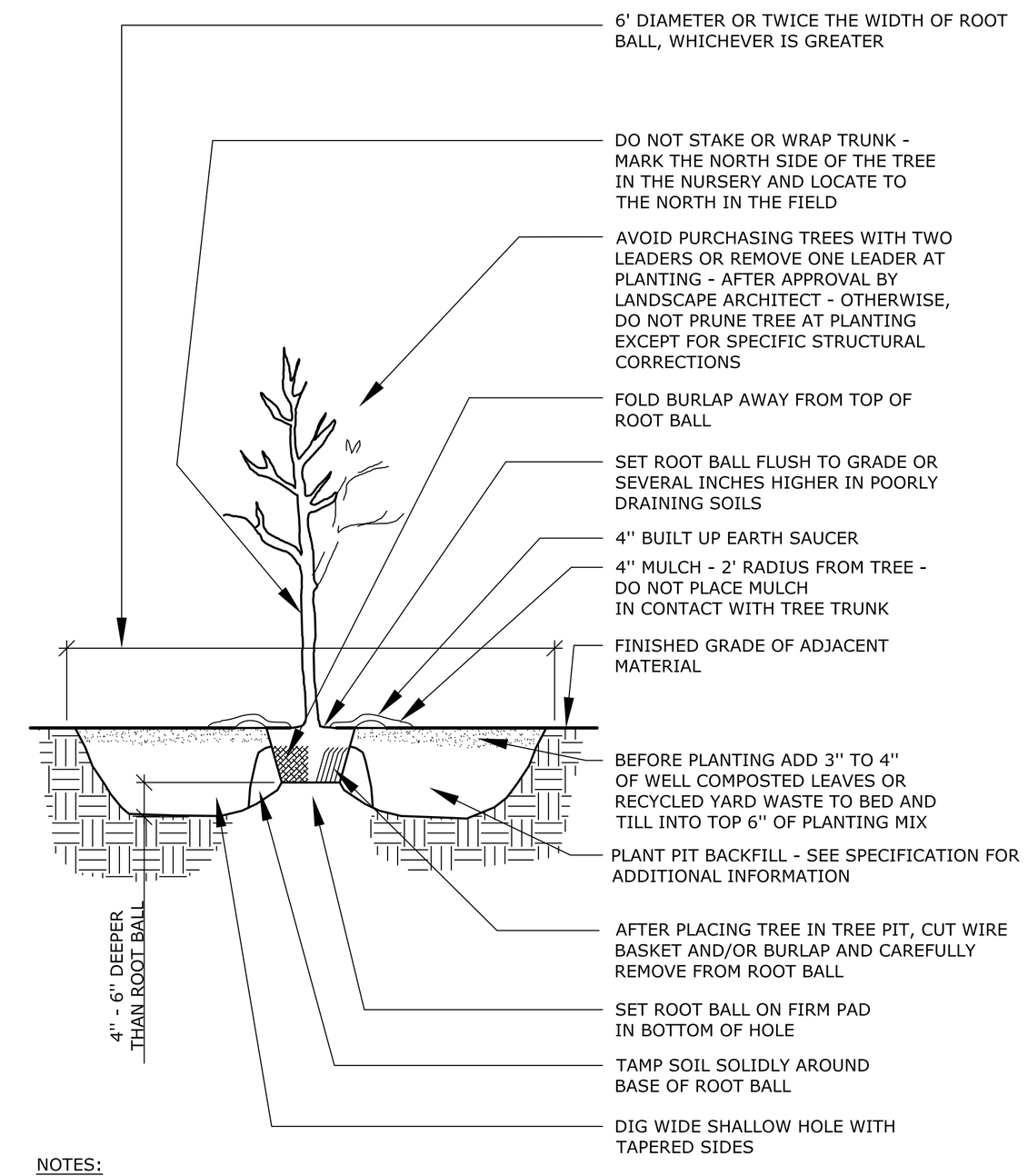
1. FOR CONTAINER GROWN SHRUBS, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.

2. INCORPORATE COMMERCIALLY PREPARED MYCORRHIZA SPORES INTO THE SOIL IMMEDIATELY AROUND THE ROOT BALL AT RATES SPECIFIED BY THE MANUFACTURER.

3. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.

2 / LDS-2 SHRUB PLANTING

NOT TO SCALE



NOTES:

1. FOR CONTAINER GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER

2. INCORPORATE COMMERCIALLY PREPARED MYCORRHIZA SPORES IN THE SOIL IMMEDIATELY AROUND THE ROOT BALL AT RATES SPECIFIED BY THE MANUFACTURER

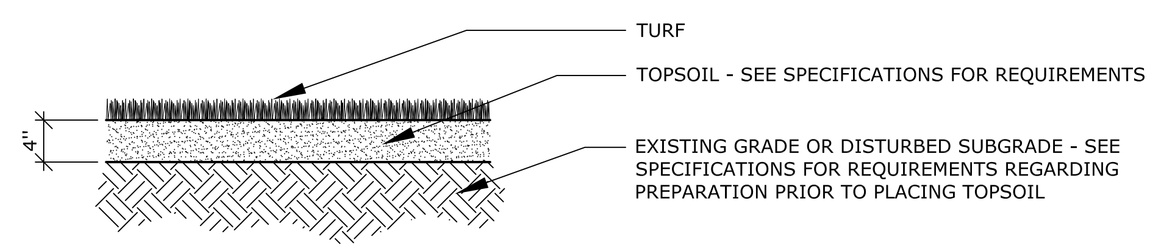
3. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.

4. THE PLANTING PROCESS IS SIMILAR FOR DECIDUOUS AND EVERGREEN TREES.

5. PLANTED TREES DO NOT TYPICALLY REQUIRE STAKING HOWEVER IN AREAS OF HIGH WINDS THE CONTRACTOR WILL STAKE TREES TO SUFFICIENTLY MAINTAIN THE UPRIGHT PLANTED POSITION. AT COMPLETION OF ONE YEAR MAINTENANCE PERIOD THE CONTRACTOR WILL REMOVE ALL TREE STAKING INCLUDING STAKES, WIRE, BANDS AND ANY OTHER MATERIAL USED TO STAKE TREES.

1 / LDS-2 TREE PLANTING (BALLED AND BURLAPPED PLANTS)

NOT TO SCALE



3 / LDS-2 TOPSOIL AT LAWN AREAS

NOT TO SCALE

Didona Associates-Landscape Architects, LLC
70 North Street
Danbury, CT 06810

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 04/15/14

DESIGNER/DRAFTER: **DC, KB**
CHECKED BY: **JD**
SCALE IN FEET 0 20 40
SCALE 1" = 20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

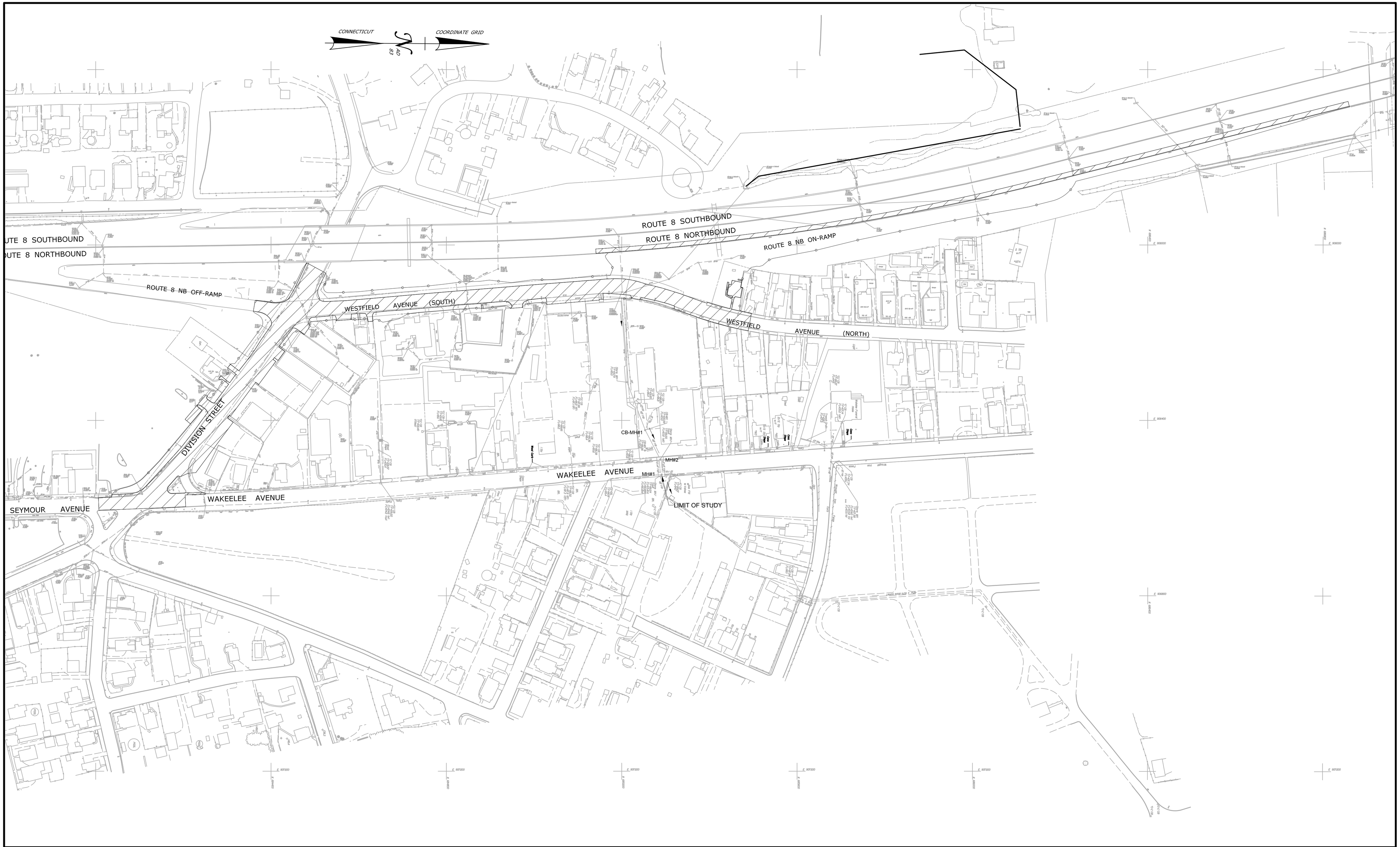
PROJECT TITLE:
ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

TOWN: **ANSONIA AND DERBY CONNECTICUT**

DRAWING TITLE: **LANDSCAPING PLAN**

PROJECT NO. **36-179**
DRAWING NO. **LDS-2**
SHEET NO. **03.84**

Border Version: 11/14/08



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 4/30/2014

DESIGNER/DRAFTER: **RL/ETK**

CHECKED BY: **DD**

SCALE IN FEET

0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\EXISTING IMPERVIOUS AREAS.dgn

SIGNATURE/
BLOCK:

PROJECT TITLE:

ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

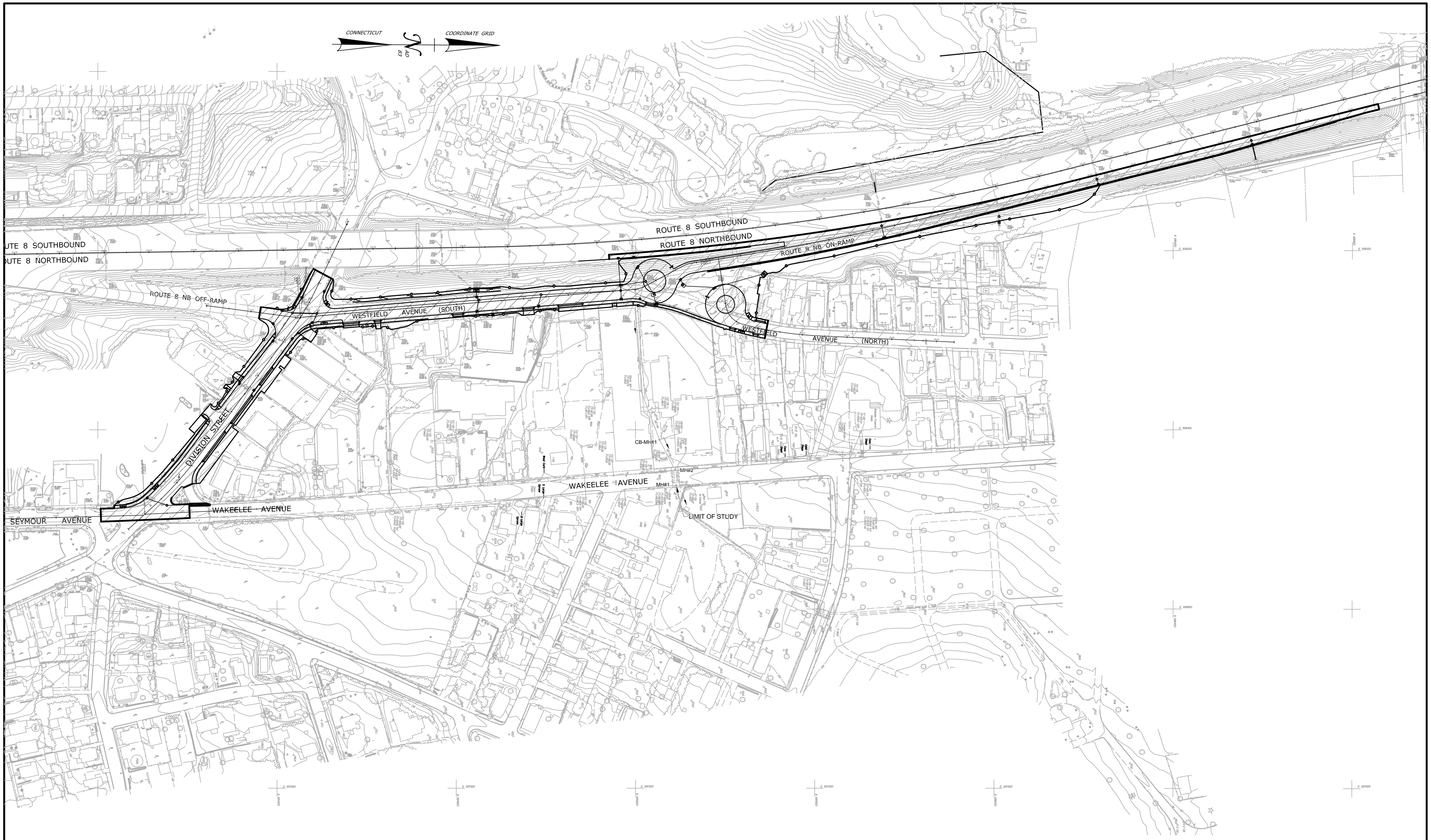
TOWN: **ANSONIA AND DERBY**

DRAWING TITLE: **EXISTING IMPERVIOUS AREAS PLAN**

PROJECT NO. **36-179**

DRAWING NO. **EIA-1**

SHEET NO.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **RL/ETK**

CHECKED BY: **DD**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\PROPOSED IMPERVIOUS AREAS.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:

ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

TOWN: **ANSONIA AND DERBY**

DRAWING TITLE: **PROPOSED IMPERVIOUS AREAS PLAN**

PROJECT NO. **36-179**

DRAWING NO. **PIA-1**

SHEET NO.

Connecticut Department of
Energy & Environmental Protection
Bureau of Materials Management & Compliance Assurance
Water Permitting & Enforcement Division

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, issued 8/21/13, effective 10/1/13
Stormwater Monitoring Report

SITE INFORMATION

Permittee: **Connecticut Department of Transportation - District 4**

Mailing Address: **359 South Main Street, Thomaston, CT 06786**

Business Phone: **(203) 591-3590** ext.: _____ Fax: **(203)** _____

Contact Person: **Kenneth Fargnoli** Title: **District Engineer**

Site Name: **Route 8 - Interchange 18 - New Northbound On-Ramp, Project # 36-179**

Site Address: **Division Street, Westfield Avenue, & Route 8 in Derby and Ansonia, CT**

Receiving Water (name, basin): **Naugatuck River Watershed 6000-00**

Stormwater Permit No. GSN _____

SAMPLING INFORMATION (Submit a separate form for each outfall)

Outfall Designation: **Outfall EO #1 (Westfield Ave to MH 4) 42" CMP, Sta. 17+57, 23' Rt** Date/Time Collected: _____

Outfall Location(s) (lat/lon or map link): **41.34103/-73.09193**

Person Collecting Sample: _____

Storm Magnitude (inches): _____ Storm Duration (hours): _____

Size of Disturbed Area at any time: **1-2 ac. (4.56 ac. total project disturbance)**

MONITORING RESULTS

Sample #	Parameter	Method	Results (units)	Laboratory (if applicable)
1	Turbidity			
2	Turbidity			
3	Turbidity			
4	Turbidity			

(provide an attachment if more than 4 samples were taken for this outfall) Avg =

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: _____

Signature: _____ Date: _____

Please send completed form to:

DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
BUREAU OF MATERIALS MANAGEMENT AND COMPLIANCE ASSURANCE
79 ELM STREET
HARTFORD, CT 06106-5127
ATTN: NEAL WILLIAMS

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

Notice of Termination Form

Please complete and submit this form in accordance with the general permit (DEP-PED-GP-015) in order to ensure the proper handling of your termination. Print or type unless otherwise noted.

Note: Ensure that for commercial and industrial facilities, registrations under the *General Permit for the Discharge of Stormwater Associated with Industrial Activity* (DEP-PED-GP-014) or the *General Permit for the Discharge of Stormwater from Commercial Activities* (DEP-PED-GP-004) have been filed where applicable. For questions about the applicability of these general permits, please call the Department at 860-424-3018.

Part I: Registrant Information

1. Permit number: ***GSN***
2. Fill in the name of the registrant(s) as indicated on the registration certificate:

   Registrant: **Connecticut Department of Transportation - District 4**
3. Site Address: **359 South Main Street**

   City/Town: **Thomaston** State: **CT** Zip Code: **06787**
4. Date all storm drainage structures were cleaned of construction sediment: **TBD**

   Date of Completion of Construction: **TBD**

   Date of Last Inspection (must be at least three months after final stabilization pursuant to Section 6(b)(6)(D) of the general permit): **TBD**
5. Check the post-construction activities at the site (check all that apply):

   ☐ Industrial ☐ Residential ☐ Commercial ☐ Capped Landfill

   ☒ Other (describe): **State Highway & Municipal Roads - Project 36-179**

Part II: Certification

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

Signature of Permittee	Date
Kenneth E. Fargnoli, P.E.	**District Engineer - Dist 4**
Name of Permittee (print or type)	Title (if applicable)

Note: Please submit this Notice of Termination Form to:

STORMWATER PERMIT COORDINATOR
BUREAU OF WATER MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127