City Of New London

Department of Finance-Purchasing Agent
13 Masonic Street • New London, CT 06320 • Phone (860) 447-5215 • Fax (860) 447-5297

Request for Proposals

ADDENDUM # 1

Proposal No.: **2022-08**

Addendum No.: 1 **Date Issued: 5/17/2022**

Jefferson Avenue at Chester Street Roundabout and Roadway Improvements

Opening Date and Time: June 21, 2022 at 2:00PM

Bidders Notes: This addendum is issued to provide all potential bidders with answers to questions submitted.

All other terms and conditions remain the same.

This Addendum cover page must be signed and returned with your bid.

_____ _____

Authorized Signature of Bidder Company Name

Return Bid To:

Joshua Montague, Accounting Purchasing Agent
City of New London
13 Masonic Street
New London, CT 06320

Bids cannot be accepted after the Bid Opening Date and Time indicated abo

2022-08

ADDENDUM # 1

Jefferson Avenue at Chester Street Roundabout and Roadway Improvements

RE: 2022-08
FROM: Joshua Montague, Accounting Purchasing Agent
TO: Prospective bidders

This Addendum shall be part of the Contract Documents and modifies the original bidding documents. This Addendum is to be acknowledged by the bidders on the Bid Form. Failure to do so may subject the bidder to disqualification.

Changes to prior Addenda:

- No prior Addenda have been issued

Q&A:

- N/A

General Items:

- Plans for the project are attached

JEFFERSON AVE. AT CHESTER STREET
ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON · CONNECTICUT

FEBRUARY 1, 2022

PREPARED FOR

CITY OF NEW LONDON
181 STATE STREET
NEW LONDON, CT 06320

PREPARED BY

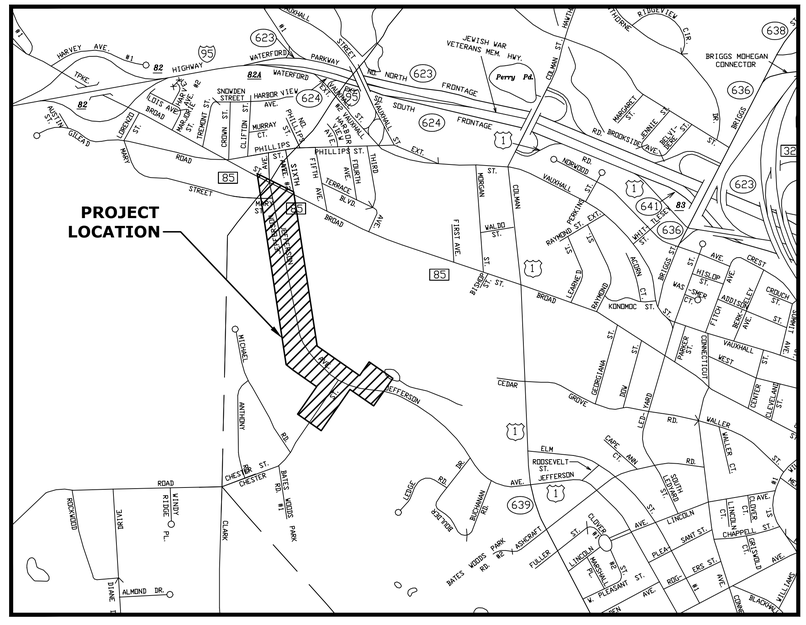
FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

GENERAL NOTES:

1. CONSTRUCTION SPECIFICATIONS:
   Connecticut Department of Transportation, Standard Specifications for Roads, Bridges, Facilities and Incidental Construction, Form 818, dated 2020 and Supplemental Specifications dated January 2022
2. DESIGN:
   Based on NCHRP 672 for the Roundabout and Connecticut Department of Transportation Highway Design Manual, dated 2003 for Jefferson Avenue and Chester Street
3. ADT:
   15,100 Average Daily Traffic
4. SURVEY:
   Performed by Fuss & O'Neill in August of 2019
5. MAINTENANCE:
   To be maintained by the City of New London

SHEET INDEX

SHEET No.	SHEET TITLE
COV-01	COVER SHEET
GEN-01	GENERAL NOTES & LEGEND PLAN
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BOR-01	BORING LOGS
EXC-01 - EXC-06	EXISTING CONDITION PLANS
MDS-01 - MDS-12	MISCELLANEOUS DETAILS
TXS-01 - TXS-02	TYPICAL CROSS SECTION PLANS
ALN-01 - ALN-07	ALIGNMENT & CURB TIE PLANS
HPN-01 - HPN-06	CONSTRUCTION PLANS
PRO-01 - PRO-04	ROADWAY PROFILES
GRA-01 - GRA-06	GRADING, DRAINAGE, AND EROSION SEDIMENTATION CONTROL PLANS
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LND-01	LANDSCAPE PLAN
LUM-01 - LUM-02	PHOTOMETRIC PLANS
ELE-01	ELECTRICAL DESIGN PLAN
PVT-01 - PVT-06	PAVEMENT MARKING & SIGNING PLANS
TSP-01	TRAFFIC SIGNAL PLAN
UTL-01 - UTL-06	UTILITY PLANS
MPT-01 - MPT-15	MAINTENANCE & PROTECTION OF TRAFFIC PLANS
DTR-01 - DTR-02	DETOUR PLANS
XCS-01 - XSC-43	CROSS SECTIONS
	CTDOT STANDARD TRAFFIC DETAILS
	CTDOT STANDARD HIGHWAY DETAILS



LOCATION MAP
SCALE: 1" = 800'

BID NO. _____

Approved By: _____ Date 1-28-2022
The Honorable Michael Passero
Mayor

LOTCIP/CTDOT PROJECT NO: L094-0002

FINAL PLANS 100% DOCUMENTS

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

COV-01

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CONSTRUCTION NOTES - ADDITIONAL TO FORM 818

GENERAL

1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSIONS OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
2. DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
3. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE CITY. PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
4. THE CONTRACTOR SHALL MAINTAIN SIDE SLOPES AND DRAINAGE SWALES DURING CONSTRUCTION TO PREVENT PONDING AND EROSION.
5. ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING, COVERING WITH STEEL PLATES MAY BE ALLOWED IF APPROVED BY THE CITY ENGINEER.
6. WHERE ENCOUNTERED, UNSUITABLE MATERIAL SHALL BE REMOVED TO A DEPTH OF AT LEAST 12-INCHES BELOW THE BOTTOM OF TRENCH EXCAVATIONS AND REPLACED WITH GRANULAR FILL, UNLESS OTHERWISE SPECIFIED.
7. REMOVAL OF ALL TREES WITHIN THE EXCAVATION LINES SHALL BE PAID FOR BY CLEARING AND GRUBBING.
8. GEOTECHNICAL DATA INCLUDING BORING LOCATIONS AND ELEVATIONS WERE OBTAINED FROM HALEY & ALDRICH.
9. ALL GUIDE RAIL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS/SUPPLEMENTS, AND STANDARD DETAILS.

WORK RESTRICTIONS:

1. ALL CONSTRUCTION ACTIVITIES, INCLUDING THE LOADING AND UNLOADING OF MATERIALS AND EQUIPMENT, SHALL BE LIMITED TO THE HOURS OF 7:00AM TO 6:00PM ON MONDAY THROUGH FRIDAY FOR CONSTRUCTION ACTIVITIES, 8:00AM TO 6:00PM ON SATURDAY FOR CONSTRUCTION ACTIVITIES, 7:00AM TO 5:00PM ON SATURDAY FOR DELIVERIES, AND NO WORK ON SUNDAY. ANY WORK PERFORMED DURING WEEKDAY NIGHTS OUTSIDE OF ALLOWABLE WORK HOURS LISTED ABOVE SHALL REQUIRE A PERMIT.

EROSION AND SEDIMENT CONTROL:

1. THE CONTRACTOR SHALL INSTALL THE SPECIFIED EROSION CONTROL DEVICES BEFORE BEGINNING OTHER WORK ON SITE AND MAINTAIN THEM FOR THE DURATION OF THE PROJECT.
2. REFER TO THE DRAWINGS FOR EROSION AND SEDIMENT CONTROL LOCATIONS.
3. IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE, PERFORM CORRECTIVE ACTION AS NEEDED, FOR EROSION CLEAN-UP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.

CONSTRUCTION LAYOUT

1. PROVIDE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED SITE IMPROVEMENTS. FIELD VERIFY EXISTING PAVEMENT AND GROUND ELEVATIONS AT THE INTERFACE WITH PROPOSED PAVEMENTS AND DRAINAGE STRUCTURES BEFORE START OF CONSTRUCTION.
2. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, FIELD VERIFY PROPOSED UTILITY ROUTES AND IDENTIFY ANY INTERFERENCES OR OBSTRUCTIONS WITH EXISTING UTILITIES OR PUBLIC RIGHTS-OF-WAY.
3. IMMEDIATELY INFORM THE ENGINEER IN WRITING IF EXISTING UTILITY CONDITIONS CONFLICT OR DIFFER FROM THAT INDICATED AND IF THE WORK CANNOT BE COMPLETED AS INDICATED.
4. BOUNDS OR MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR. CONTRACTOR IS REQUIRED AND RESPONSIBLE FOR THE RESET OF THE MONUMENTS OR BOUNDS AT THEIR COST IF DISTURBED.

UTILITIES:

1. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455 AND THE TOWN AT LEAST 72 HOURS PRIOR TO EXCAVATING AT ANY LOCATION, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED. A COPY OF THE CBYD PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
2. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
3. TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER.
4. TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.
5. THE CONTRACTOR SHALL COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING OF FRAMES, GRATES, GATES, VALVE BOXES ETC. WHICH SHALL BE DONE IN ACCORDANCE WITH INDIVIDUAL UTILITY COMPANY REQUIREMENTS.
7. RIM ELEVATIONS FOR MANHOLES, VALVE COVERS, GAS AND WATER GATES AND PULL BOXES, AND OTHER STRUCTURES SHALL BE SET OR RESET FLUSH TO FINISH GRADE.
8. ALL NEW CATCH BASIN STRUCTURES SHALL INCLUDE HOODS.
9. EXISTING STRUCTURES SHALL BE CORED PRIOR TO INSTALLING PIPE.
10. THE TYPE, SIZE AND LOCATION OF DEPICTED UNDERGROUND UTILITIES ARE APPROXIMATE REPRESENTATIONS OF INFORMATION OBTAINED FROM FIELD LOCATIONS OF VISIBLE FEATURES, EXISTING MAPS AND PLANS OF RECORD, UTILITY MAPPING, AND OTHER SOURCES OF INFORMATION OBTAINED BY THE ENGINEER. ASSUME NO GUARANTEE AS TO THE COMPLETENESS, SERVICEABILITY, EXISTENCE, OR ACCURACY OF UNDERGROUND FACILITIES. FIELD VERIFY THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES.
11. INTERIOR DIAMETERS OF STORM DRAIN AND SANITARY SEWER STRUCTURES SHALL BE DETERMINED BY THE PRECAST MANUFACTURER, BASED ON THE INDICATED PIPE SYSTEM LAYOUT AND LOCAL MUNICIPAL STANDARDS.

    MINIMUM INTERIOR DIAMETERS:
    0 TO 20 FEET DEEP; 4 FEET.
    20 FEET OR GREATER; 5 FEET.

INSTALLATION OF MANHOLE FRAMES, CATCH BASIN TOPS, AND GAS AND WATER GATES TO FINISH GRADE:

1. THE PROCEDURE FOR INSTALLING MANHOLE FRAMES, CATCH BASIN TOPS, AND GAS AND WATER GATES TO FINISH GRADE SHALL BE AS STIPULATED IN THE FOLLOWING STEPS.
   a. CATCH BASINS, MANHOLES, AND GAS AND WATER GATES SHALL INITIALLY BE INSTALLED TO THE TOP OF THE SUBBASE LAYER, PLATED, AND MARKED WITH LOCATIONS REFERENCED.
   b. AFTER DRAINAGE, SANITARY SEWER, AND GAS AND WATER GATE STRUCTURES ARE PLATED, THE BASE COURSE OF BITUMINOUS CONCRETE SHALL BE INSTALLED TO THE GRADES SHOWN ON THE PLANS.
   c. FROM THE REFERENCE MARKS, THE BASE COURSE OF PAVEMENT SHALL BE CUT, THE STRUCTURES EXPOSED AND THE TOPS PLACED TO FINAL GRADE.
   d. THE FRAMES AND TOPS SHALL BE BROUGHT TO FINAL GRADE USING AN APPROPRIATE COMBINATION OF CONCRETE RISER RINGS, CEMENT MORTAR, CONCRETE BRICKS AND STEEL SHIMS, AS NECESSARY.
   e. THE FRAMES AND TOPS SHALL BE ALIGNED TO MATCH THE PROPOSED CROSS SLOPE AND GRADE OF THE SURROUNDING PAVED SURFACE TO THE EXTENT PRACTICABLE.

PAVEMENT

1. AT A MINIMUM, CONSTRUCT ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).

SITE RESTORATION

1. PROVIDE 4 INCHES OF TOPSOIL AND SEED TO AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED TO BE RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) UNLESS OTHERWISE NOTED.
2. REPAIR DAMAGES RESULTING FROM CONSTRUCTION LOADS, AT NO ADDITIONAL COST TO THE CITY.
3. RESTORE AREAS DISTURBED BY CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION OR BETTER, AT NO ADDITIONAL COST TO THE CITY.

SURVEY NOTES:

1. SEE SHEET EXC-01 FOR SURVEY NOTES.

ROUNDABOUT DESIGN CRITERIA

(NCHRP 672 Roundabouts: An Informational Guide 2nd Edition)

DESIGN SPEED	20 MPH
INSCRIBED DIAMETER CIRCLE	97'
CIRCULATORY TRAVEL LANE WIDTH	20'–0"
CIRCULATORY TRAVEL LANE CROSS SLOPE	1.25%–1.75%
APPROACH TO CROSSWALK STOPPING SIGHT DISTANCE	>200' (30 MPH)
CIRCULATORY STOPPING SIGHT DISTANCE	65' (13 MPH)
SIGHT DISTANCE TO CROSSWALK (MIN. IN ROUNDABOUT)	86'
TRUCK APRON WIDTH	17'–0"
TRUCK APRON CROSS SLOPE	1.25%–1.75%
TRUCK APRON CURB REVEAL	2"
MAX PROFILE GRADE	4%
MINIMUM REFUGE AREA WIDTH	6'–0"
ENTRY RADIUS	60' – 85'
EXIT RADIUS	125' – 160'
CENTRAL ISLAND DIAMETER	22'–0"
LARGEST DESIGN VEHICLE	WB–62
OFFSET ALIGNMENT TYPE	CENTER

LEGEND

EXIST / PROP

- PROPERTY LINE/RIGHT-OF-WAY
- CENTERLINE
- LOD — LIMIT OF DISTURBANCE
- EASEMENT
- BUILDING SETBACK
- STATE HIGHWAY BASELINE
- 10+00 / 10+00 — BASELINE
- ZONING LINE
- EDGE OF WATER
- WF1 / WF2 — WETLAND LINE
- BUFFER ZONE
- WETLAND SYMBOL
- GRAVEL ROAD
- EDGE OF PAVEMENT
- BITUMINOUS CURB
- CONCRETE CURB
- PRECAST CONC. CURB
- VERT. GRAN. CURB
- LIMIT OF CURB TYPE
- SAW CUT
- MATCH LINE / SEE SHEET XXX-XX — MATCH LINE
- SWL / SWL — SOLID WHITE LINE
- SYL / SYL — SOLID YELLOW LINE
- BWL / BWL — BROKEN WHITE LINE
- BYL / BYL — BROKEN YELLOW LINE
- SWCHL / SWCHL — SOLID WHITE CHANNELIZING LINE
- SYCHL / SYCHL — SOLID YELLOW CHANNELIZING LINE
- DYL / DYL — DOUBLE YELLOW LINE
- STOP / STOP — STOP LINE
- GUIDE RAIL
- STOCKADE FENCE
- WIRE FENCE
- CHAIN LINK FENCE
- TREE LINE
- SHRUB LINE
- STONE WALL
- RETAINING WALL

- 2 / 4 — MINOR CONTOUR
- 10 / 20 — MAJOR CONTOUR
- TS / TS — TOP of SLOPE
- BS / BS — BOTTOM of SLOPE
- BUILDING
- BOLLARD
- SIGN
- PM / PM — DOUBLE SIGN
- PARKING METER
- (10) / 10 — PARKING COUNT
- CROSSWALK
- HANDICAP RAMP
- HANDICAP PARKING
- VAN / VAN — VAN-ACCESSIBLE HANDICAP PARKING
- 21.25 TC 21.25 BC / 21.25 TC 21.25 BC — TOP & BOTTOM ELEVATION
- 21.25 / 21.25 — SPOT ELEVATION w/LEADER
- x21.25 / x21.25 — SPOT ELEVATION
- SOIL BORING
- MONITORING WELL
- TEST PIT LOCATION
- IRON PIPE
- DRILL HOLE
- IP — IRON PIN
- MONUMENT
- MAIL BOX
- CONTROL POINT
- SF — SILT FENCE / SILT SACK
- HAYBALES

ABBREVIATIONS

GENERAL

APPROX.	APPROXIMATE
BIT.	BITUMINOUS
BW	BOTTOM OF WALL
CC	CONCRETE CURB
CCB	CAPE CODE BERM
CONC.	CONCRETE
ELEV	ELEVATION
EXIST	EXISTING
GC	GRANITE CURB
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
PCC	PRE CAST CONCRETE CURB
PROP	PROPOSED
REM	REMOVE
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
TOS	TOP OF SLOPE
TW	TOP OF WALL
TYP	TYPICAL
VGC	VERTICAL GRANITE CURB

UTILITY

CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED POLYETHYLENE PIPE
DCB	DOUBLE CATCH BASIN
DI	DUCTILE IRON PIPE
F&G	FRAME AND GRATE
F&C	FRAME AND COVER
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HYD	HYDRANT
INV	INVERT ELEVATION
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
SMH	SEWER MANHOLE
TSV	TAPPING SLEEVE, VALVE AND BOX
UP	UTILITY POLE

ROADWAY DESIGN CRITERIA

(CT DOT HIGHWAY DESIGN MANUAL, 2003 EDITION)
NEW CONSTRUCTION/MAJOR CONSTRUCTION: CH. 5

STREET	JEFFERSON AVENUE	CHESTER STREET
CLASSIFICATION	URBAN MINOR ARTERIAL	URBAN MINOR ARTERIAL
DESIGN SPEED	30 MPH	25 MPH
TRAVEL LANE WIDTH	11'–12' (12' PROPOSED)	11'–12' (>11' PROPOSED)
SHOULDER WIDTHS	4'–8' (5' PROPOSED)	4'–8' (>4' MAINTAINED)
ROADWAY CROSS SLOPE	1.75% – 3.00%	1.0% – 2.0%
RECOMMENDED CLEAR ZONE (AASHTO RDG)	14'–18'	14'–18'
PROFILE GRADE (MIN/MAX)	0.50% – 6.50%	0.50% – 1.60%
PROFILE RATE OF CURVATURE (CREST MIN)	19 ALLOWED / >19 PROPOSED	12 ALLOWED / 25 PROPOSED
PROFILE RATE OF CURVATURE (SAG MIN)	37 ALLOWED / >37 PROPOSED	26 ALLOWED / 26 PROPOSED
SIDEWALK WIDTH	±5'	±5'

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: N.T.S.
VERT.:
DATUM:
HORZ.:
VERT.:

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

CITY OF NEW LONDON

GENERAL NOTES & LEGEND PLAN

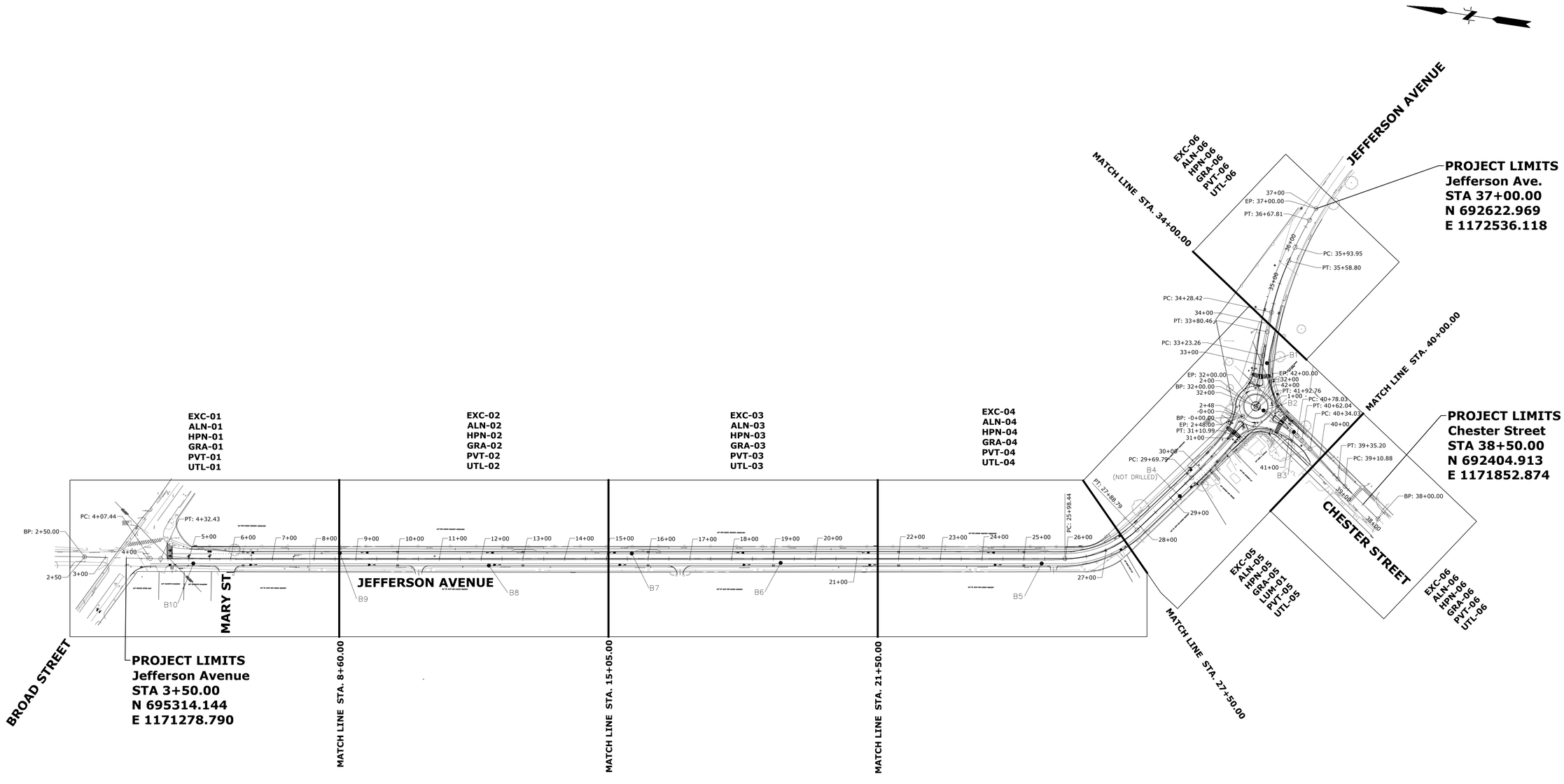
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

GEN-01

File Path: J:\DWG\P20170353A20\Civil\Plan\20170353A20_GEN01.dwg Layout: GEN-01 Plotted: Tue, January 25, 2022 - 2:29 PM User: stanski
MS VIEW: LAYER STATE:
Plotter: DWG TO PDF.PC3 CTB File: FO.STB



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Plotter: DWG TO PDF.PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 120'
VERT.:
DATUM:
HORZ.:
VERT.:
120 60 0 120
GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

CITY OF NEW LONDON

INDEX PLAN & BORING LOCATIONS

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

IND-01

TEST BORING REPORT — Boring No. B1

HALEY ALDRICH

Project: Reconstruction of Jefferson Avenue, New London, Connecticut
Client: Fuss & O'Neill
Contractor: New England Boring Contractors

File No. 133622-002
Sheet No. 1 of 1
Start July 30, 2019
Finish July 30, 2019
Driller S. Marino

	Casing	Sampler	Barrel
Type	HSA	S	--
Inside Diameter (in.)	3.25	1 3/8	--
Hammer Weight (lb)	--	140	-
Hammer Fall (in.)	--	30	-

Drilling Equipment and Procedures: Rig Make & Model: Truck-Mounted Mobile Drill B-53; Bit Type: Cutting Head; Drill Mud: None; Casing: Spun; Hoist/Hammer: Winch Automatic Hammer; PID Make & Model: None

H&A Rep. S. Brousseau
Elevation 153.5 (est.)
Datum NAVD88
Location See Plan

Depth (ft)	Sample Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Strata Change (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions; GEOLOGIC INTERPRETATION)	Gravel: % Coarse	% Fine	Sand: % Coarse	% Medium	% Fine	Field Test: Dilatancy	Toughness	Plasticity	Strength
0						-BITUMINOUS CONCRETE (7 IN.)-									
	16 19 17 20	S1 18	1.0 3.0	152.7 0.8	GP-GM	Dense olive-brown poorly-graded GRAVEL with silt and sand, no structure, no odor, dry	34	18	7	17	18	6			
				151.0 2.5		-FILL-									
					SM	Dense brown silty SAND, no structure, no odor, dry			10	10	10	40	30		
	25 35 50/4"	S2 16	3.0 5.0	150.5 3.0		Very dense gray to yellow brown silty SAND, no structure, no odor, dry			9	9	10	46	36		
				149.5 4.0	SM	Very dense dark brown silty SAND, no structure, no odor, dry			10	16	25	25	34		
5						-GLACIAL TILL-									
				148.5 5.0		BOTTOM OF EXPLORATION 5.0 FT									
						Note: Borehole backfilled with drill cuttings and asphalt patched upon completion.									

Water Level Data: Date | Time | Elapsed Time (hr.) | Depth (ft) to: Bottom of Casing | Bottom of Hole | Water — Not Encountered

Sample ID: O - Open End Rod; T - Thin Wall Tube; U - Undisturbed Sample; S - Split Spoon Sample

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (ft) 5.0; Rock Cored (ft) -; Samples 2S

Boring No. B1

Field Tests:
Distance: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

*Note: Maximum particle size (mps) is determined by direct observation within the limitations of sampler size.
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT — Boring No. B2

HALEY ALDRICH

Project: Reconstruction of Jefferson Avenue, New London, Connecticut
Client: Fuss & O'Neill
Contractor: New England Boring Contractors

File No. 133622-002
Sheet No. 1 of 1
Start July 30, 2019
Finish July 30, 2019
Driller S. Marino

	Casing	Sampler	Barrel
Type	HSA	S	--
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H&A Rep. S. Brousseau
Elevation 158.5 (est.)
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Location See Plan

Depth (ft)	Sample Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Strata Change (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions; GEOLOGIC INTERPRETATION)	Gravel: % Coarse	% Fine	Sand: % Coarse	% Medium	% Fine	Field Test: Dilatancy	Toughness	Plasticity	Strength
0						-BITUMINOUS CONCRETE (9 IN.)-									
	11 14 27 17	S1 22	1.0 3.0	157.7 0.8	SM	Dense brown to yellow brown silty SAND, no structure no odor, dry	15	5	15	20	30	15			
	50 100/5"	S2 9	3.0 4.9	155.5 3.0	SP-SM	Very dense brown to gray poorly-graded SAND with silt, no structure, no odor, dry				11	24	60	10		
						Note: Advanced auger to 5 ft. Probable cobble/boulder at 3.9 ft.									
5						-GLACIAL TILL-									
				153.5 5.0		BOTTOM OF EXPLORATION 5.0 FT									
						Note: Borehole backfilled with drill cuttings and asphalt patched upon completion.									

Water Level Data: Date | Time | Elapsed Time (hr.) | Depth (ft) to: Bottom of Casing | Bottom of Hole | Water — Not Encountered

Sample ID: O - Open End Rod; T - Thin Wall Tube; U - Undisturbed Sample; S - Split Spoon Sample

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (ft) 5.0; Rock Cored (ft) -; Samples 2S

Boring No. B2

Field Tests:
Distance: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

*Note: Maximum particle size (mps) is determined by direct observation within the limitations of sampler size.
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT — Boring No. B3

HALEY ALDRICH

Project: Reconstruction of Jefferson Avenue, New London, Connecticut
Client: Fuss & O'Neill
Contractor: New England Boring Contractors

File No. 133622-002
Sheet No. 1 of 1
Start July 30, 2019
Finish July 30, 2019
Driller S. Marino

	Casing	Sampler	Barrel
Type	HSA	S	--
Inside Diameter (in.)	3.25	1 3/8	--
Hammer Weight (lb)	--	140	-
Hammer Fall (in.)	--	30	-

Drilling Equipment and Procedures: Rig Make & Model: Truck-Mounted Mobile Drill B-53; Bit Type: Cutting Head; Drill Mud: None; Casing: Spun; Hoist/Hammer: Winch Automatic Hammer; PID Make & Model: None

H&A Rep. S. Brousseau
Elevation 160.3 (est.)
Datum NAVD88
Location See Plan

Depth (ft)	Sample Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Strata Change (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions; GEOLOGIC INTERPRETATION)	Gravel: % Coarse	% Fine	Sand: % Coarse	% Medium	% Fine	Field Test: Dilatancy	Toughness	Plasticity	Strength
0						-BITUMINOUS CONCRETE (9 IN.)-									
	22 17 19 21	S1 20	1.0 3.0	159.7 0.8	SW-SM	Dense brown well-graded SAND with silt and gravel, no structure, no odor, dry	10	10	20	20	30	10			
						-FILL-									
				158.3 2.2	SM	Dense brown to gray silty SAND, no structure, no odor, dry			5	15	55	25			
	48 47 45 62	S2 18	3.0 5.0	157.3 3.0	SM	Similar to above, except very dense									
				155.8 4.5	SM	Very dense brown to red brown silty SAND, no structure, no odor, moist			3	14	34	24			
5						-GLACIAL TILL-									
				155.3 5.0		BOTTOM OF EXPLORATION 5.0 FT									
						Note: Borehole backfilled with drill cuttings and asphalt patched upon completion.									

Water Level Data: Date | Time | Elapsed Time (hr.) | Depth (ft) to: Bottom of Casing | Bottom of Hole | Water — Not Encountered

Sample ID: O - Open End Rod; T - Thin Wall Tube; U - Undisturbed Sample; S - Split Spoon Sample

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (ft) 5.0; Rock Cored (ft) -; Samples 2S

Boring No. B3

Field Tests:
Distance: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

*Note: Maximum particle size (mps) is determined by direct observation within the limitations of sampler size.
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT — Boring No. B5

HALEY ALDRICH

Project: Reconstruction of Jefferson Avenue, New London, Connecticut
Client: Fuss & O'Neill
Contractor: New England Boring Contractors

File No. 133622-002
Sheet No. 1 of 1
Start July 30, 2019
Finish July 30, 2019
Driller S. Marino

	Casing	Sampler	Barrel
Type	HSA	S	--
Inside Diameter (in.)	3.25	1 3/8	--
Hammer Weight (lb)	--	140	-
Hammer Fall (in.)	--	30	-

Drilling Equipment and Procedures: Rig Make & Model: Truck-Mounted Mobile Drill B-53; Bit Type: Cutting Head; Drill Mud: None; Casing: Spun; Hoist/Hammer: Winch Automatic Hammer; PID Make & Model: None

H&A Rep. S. Brousseau
Elevation 182.2 (est.)
Datum NAVD88
Location See Plan

Depth (ft)	Sample Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Strata Change (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions; GEOLOGIC INTERPRETATION)	Gravel: % Coarse	% Fine	Sand: % Coarse	% Medium	% Fine	Field Test: Dilatancy	Toughness	Plasticity	Strength
0						-BITUMINOUS CONCRETE (7 IN.)-									
	7 12 25 21	S1 19	1.0 3.0	181.6 0.6	SP	Dense brown to yellow brown poorly-graded SAND, no structure, no odor, dry			10	10	30	45	5		
				180.3 1.9	SM	-FILL-									
						Dense gray brown silty SAND, no structure, no odor, dry			10	10	15	45	20		
	15 16 18 24	S2 17	3.0 5.0	179.3 3.0	SM	Similar to above except bonded in-situ, moist									
5						-GLACIAL TILL-									
				177.2 5.0		BOTTOM OF EXPLORATION 5.0 FT									
						Note: Borehole backfilled with drill cuttings and asphalt patched upon completion.									

Water Level Data: Date | Time | Elapsed Time (hr.) | Depth (ft) to: Bottom of Casing | Bottom of Hole | Water — Not Encountered

Sample ID: O - Open End Rod; T - Thin Wall Tube; U - Undisturbed Sample; S - Split Spoon Sample

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (ft) 5.0; Rock Cored (ft) -; Samples 2S

Boring No. B5

Field Tests:
Distance: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

*Note: Maximum particle size (mps) is determined by direct observation within the limitations of sampler size.
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT — Boring No. B6

HALEY ALDRICH

Project: Reconstruction of Jefferson Avenue, New London, Connecticut
Client: Fuss & O'Neill
Contractor: New England Boring Contractors

File No. 133622-002
Sheet No. 1 of 1
Start July 30, 2019
Finish July 30, 2019
Driller S. Marino

	Casing	Sampler	Barrel
Type	HSA	S	--
Inside Diameter (in.)	3.25	1 3/8	--
Hammer Weight (lb)	--	140	-
Hammer Fall (in.)	--	30	-

Drilling Equipment and Procedures: Rig Make & Model: Truck-Mounted Mobile Drill B-53; Bit Type: Cutting Head; Drill Mud: None; Casing: Spun; Hoist/Hammer: Winch Automatic Hammer; PID Make & Model: None

H&A Rep. S. Brousseau
Elevation 191.3 (est.)
Datum NAVD88
Location See Plan

Depth (ft)	Sample Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Strata Change (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions; GEOLOGIC INTERPRETATION)	Gravel: % Coarse	% Fine	Sand: % Coarse	% Medium	% Fine	Field Test: Dilatancy	Toughness	Plasticity	Strength
0						-BITUMINOUS CONCRETE (7 IN.)-									
	3 5 14 12	S1 12	1.0 3.0	190.7 0.6	SM	Medium dense yellow brown to dark brown silty SAND, no structure, no odor, dry				5	5	60	30		
				189.3 2.0		-FILL-									
					SM	Medium dense brown to gray brown silty SAND with gravel, no structure, no odor, dry	10	10	5	10	45	20			
	15 16 16 27	S2 23	3.0 5.0	188.3 3.0	SM	Similar to above, except dense									
5						-GLACIAL TILL-									
				186.3 5.0		BOTTOM OF EXPLORATION 5.0 FT									
						Note: Borehole backfilled with drill cuttings and asphalt patched upon completion.									

Water Level Data: Date | Time | Elapsed Time (hr.) | Depth (ft) to: Bottom of Casing | Bottom of Hole | Water — Not Encountered

Sample ID: O - Open End Rod; T - Thin Wall Tube; U - Undisturbed Sample; S - Split Spoon Sample

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (ft) 5.0; Rock Cored (ft) -; Samples 2S

Boring No. B6

Field Tests:
Distance: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

*Note: Maximum particle size (mps) is determined by direct observation within the limitations of sampler size.
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT — Boring No. B7

HALEY ALDRICH

Project: Reconstruction of Jefferson Avenue, New London, Connecticut
Client: Fuss & O'Neill
Contractor: New England Boring Contractors

File No. 133622-002
Sheet No. 1 of 1
Start July 30, 2019
Finish July 30, 2019
Driller S. Marino

	Casing	Sampler	Barrel
Type	HSA	S	--
Inside Diameter (in.)	3.25	1 3/8	--
Hammer Weight (lb)	--	140	-
Hammer Fall (in.)	--	30	-

Drilling Equipment and Procedures: Rig Make & Model: Truck-Mounted Mobile Drill B-53; Bit Type: Cutting Head; Drill Mud: None; Casing: Spun; Hoist/Hammer: Winch Automatic Hammer; PID Make & Model: None

H&A Rep. S. Brousseau
Elevation 196.5 (est.)
Datum NAVD88
Location See Plan

Depth (ft)	Sample Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Strata Change (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions; GEOLOGIC INTERPRETATION)	Gravel: % Coarse	% Fine	Sand: % Coarse	% Medium	% Fine	Field Test: Dilatancy	Toughness	Plasticity	Strength
0						-BITUMINOUS CONCRETE (2 IN. AND 5 IN.)-									
	3 11 13 16	S1 16	1.0 3.0	195.8 0.6	SM	Medium dense yellow brown to brown silty SAND, no structure, no odor, dry	5	5	5	35	50				
				194.5 2.0		-FILL (FORMER SUBSOIL)-									
	20 23 28 34	S2 16	3.0 5.0	193.5 3.0	SM	Medium dense brown to gray brown silty SAND with gravel, no structure, no odor, dry	10	5	10	10	40	25			
					SM	Dense gray brown to brown silty SAND, bonded in-situ, no odor, moist				5	56	40			
5						-GLACIAL TILL-									
				191.5 5.0		BOTTOM OF EXPLORATION 5.0 FT									
						Note: Borehole backfilled with drill cuttings and asphalt patched upon completion.									

Water Level Data: Date | Time | Elapsed Time (hr.) | Depth (ft) to: Bottom of Casing | Bottom of Hole | Water — Not Encountered

Sample ID: O - Open End Rod; T - Thin Wall Tube; U - Undisturbed Sample; S - Split Spoon Sample

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (ft) 5.0; Rock Cored (ft) -; Samples 2S

Boring No. B7

Field Tests:
Distance: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

*Note: Maximum particle size (mps) is determined by direct observation within the limitations of sampler size.
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT — Boring No. B8

HALEY ALDRICH

Project: Reconstruction of Jefferson Avenue, New London, Connecticut
Client: Fuss & O'Neill
Contractor: New England Boring Contractors

File No. 133622-002
Sheet No. 1 of 1
Start July 30, 2019
Finish July 30, 2019
Driller S. Marino

	Casing	Sampler	Barrel
Type	HSA	S	--
Inside Diameter (in.)	3.25	1 3/8	--
Hammer Weight (lb)	--	140	-
Hammer Fall (in.)	--	30	-

Drilling Equipment and Procedures: Rig Make & Model: Truck-Mounted Mobile Drill B-53; Bit Type: Cutting Head; Drill Mud: None; Casing: Spun; Hoist/Hammer: Winch Automatic Hammer; PID Make & Model: None

H&A Rep. S. Brousseau
Elevation 200.7 (est.)
Datum NAVD88
Location See Plan

Depth (ft)	Sample Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Strata Change (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions; GEOLOGIC INTERPRETATION)	Gravel: % Coarse	% Fine	Sand: % Coarse	% Medium	% Fine	Field Test: Dilatancy	Toughness	Plasticity	Strength
0						-BITUMINOUS CONCRETE (2 IN. AND 3 IN.)-									
	3 4 4 5	S1 17	1.0 3.0	200.3 0.4	ML	Medium dense red brown to brown sandy SILT, no structure, no odor, dry	2	3	12	21	62				
				198.7 2.0		-FILL (FORMER SUBSOIL)-									
	45 36 40 46	S2 13	3.0 5.0		SM	Medium dense gray brown silty SAND, no structure, no odor, dry	5	5	15	55	20				
						Similar to above									
5						-GLACIAL TILL-									
				195.7 5.0		BOTTOM OF EXPLORATION 5.0 FT									
						Note: Borehole backfilled with drill cuttings and asphalt patched upon completion.									

Water Level Data: Date | Time | Elapsed Time (hr.) | Depth (ft) to: Bottom of Casing | Bottom of Hole | Water — Not Encountered

Sample ID: O - Open End Rod; T - Thin Wall Tube; U - Undisturbed Sample; S - Split Spoon Sample

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (ft) 5.0; Rock Cored (ft) -; Samples 2S

Boring No. B8

Field Tests:
Distance: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

*Note: Maximum particle size (mps) is determined by direct observation within the limitations of sampler size.
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT — Boring No. B9

HALEY ALDRICH

Project: Reconstruction of Jefferson Avenue, New London, Connecticut
Client: Fuss & O'Neill
Contractor: New England Boring Contractors

File No. 133622-002
Sheet No. 1 of 1
Start July 30, 2019
Finish July 30, 2019
Driller S. Marino

	Casing	Sampler	Barrel
Type	HSA	S	--
Inside Diameter (in.)	3.25	1 3/8	--
Hammer Weight (lb)	--	140	-
Hammer Fall (in.)	--	30	-

Drilling Equipment and Procedures: Rig Make & Model: Truck-Mounted Mobile Drill B-53; Bit Type: Cutting Head; Drill Mud: None; Casing: Spun; Hoist/Hammer: Winch Automatic Hammer; PID Make & Model: None

H&A Rep. S. Brousseau
Elevation 203.8 (est.)
Datum NAVD88
Location See Plan

Depth (ft)	Sample Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Strata Change (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions; GEOLOGIC INTERPRETATION)	Gravel: % Coarse	% Fine	Sand: % Coarse	% Medium	% Fine	Field Test: Dilatancy	Toughness	Plasticity	Strength
0						-BITUMINOUS CONCRETE (8 IN.)-									
	3 4 4 7	S1 15	1.0 3.0	203.3 0.5	SM	Loose yellow brown to brown silty SAND, no structure, no odor, dry			5	45	50				
				201.7 2.0		-FILL (FORMER SUBSOIL)-									
	24 26 32 45	S2 17	3.0 5.0	200.8 3.0	SM	Very dense gray brown silty SAND, no structure, no odor, dry			5	5	20	55	15		
						Similar to above									
5						-GLACIAL TILL-									
				198.8 5.0		BOTTOM OF EXPLORATION 5.0 FT									
						Note: Borehole backfilled with drill cuttings and asphalt patched upon completion.									

Water Level Data: Date | Time | Elapsed Time (hr.) | Depth (ft) to: Bottom of Casing | Bottom of Hole | Water — Not Encountered

Sample ID: O - Open End Rod; T - Thin Wall Tube; U - Undisturbed Sample; S - Split Spoon Sample

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (ft) 5.0; Rock Cored (ft) -; Samples 2S

Boring No. B9

Field Tests:
Distance: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

*Note: Maximum particle size (mps) is determined by direct observation within the limitations of sampler size.
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT — Boring No. B10

HALEY ALDRICH

Project: Reconstruction of Jefferson Avenue, New London, Connecticut
Client: Fuss & O'Neill
Contractor: New England Boring Contractors

File No. 133622-002
Sheet No. 1 of 1
Start July 30, 2019
Finish July 30, 2019
Driller S. Marino

	Casing	Sampler	Barrel
Type	HSA	S	--
Inside Diameter (in.)	3.25	1 3/8	--
Hammer Weight (lb)	--	140	-
Hammer Fall (in.)	--	30	-

Drilling Equipment and Procedures: Rig Make & Model: Truck-Mounted Mobile Drill B-53; Bit Type: Cutting Head; Drill Mud: None; Casing: Spun; Hoist/Hammer: Winch Automatic Hammer; PID Make & Model: None

H&A Rep. S. Brousseau
Elevation 203.6 (est.)
Datum NAVD88
Location See Plan

Depth (ft)	Sample Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Strata Change (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions; GEOLOGIC INTERPRETATION)	Gravel: % Coarse	% Fine	Sand: % Coarse	% Medium	% Fine	Field Test: Dilatancy	Toughness	Plasticity	Strength
0						-BITUMINOUS CONCRETE (10 IN.)-									
	10 8 10 10	S1 20	1.0 3.0	202.0 0.8	SP	Medium dense brown to yellow brown poorly-graded SAND with gravel, no structure, no odor, dry	20	5	15	20	35	5			
				202.1 1.5	SM	Medium dense gray brown silty SAND with gravel, no structure, no odor, dry, trace asphalt	20	5	10	10	30	20			
	14 25/7"	S2 4	3.0 3.6			Similar to above, except trace brick fragments									
				200.2 3.6		-FILL-									
						Note: Boring terminated due to abrupt spoon action and nearby utilities.									
5						BOTTOM OF EXPLORATION 3.6 FT									
						Note: Borehole backfilled with drill cuttings and asphalt patched upon completion.									

Water Level Data: Date | Time | Elapsed Time (hr.) | Depth (ft) to: Bottom of Casing | Bottom of Hole | Water — Not Encountered

Sample ID: O - Open End Rod; T - Thin Wall Tube; U - Undisturbed Sample; S - Split Spoon Sample

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (ft) 3.6; Rock Cored (ft) -; Samples 2S

Boring No. B10

Field Tests:
Distance: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

*Note: Maximum particle size (mps) is determined by direct observation within the limitations of sampler size.
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

File Path: J:\DWG\P20170353\A20\CivilPlan\20170353A20_BOR01.dwg Layout: BOR-01 Plotted: Tue, January 25, 2022 - 2:46 PM User: stanski
Plotter: DWG TO PDF.PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: NTS
VERT.:
DATUM:
HORZ.:
VERT.:

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

CITY OF NEW LONDON

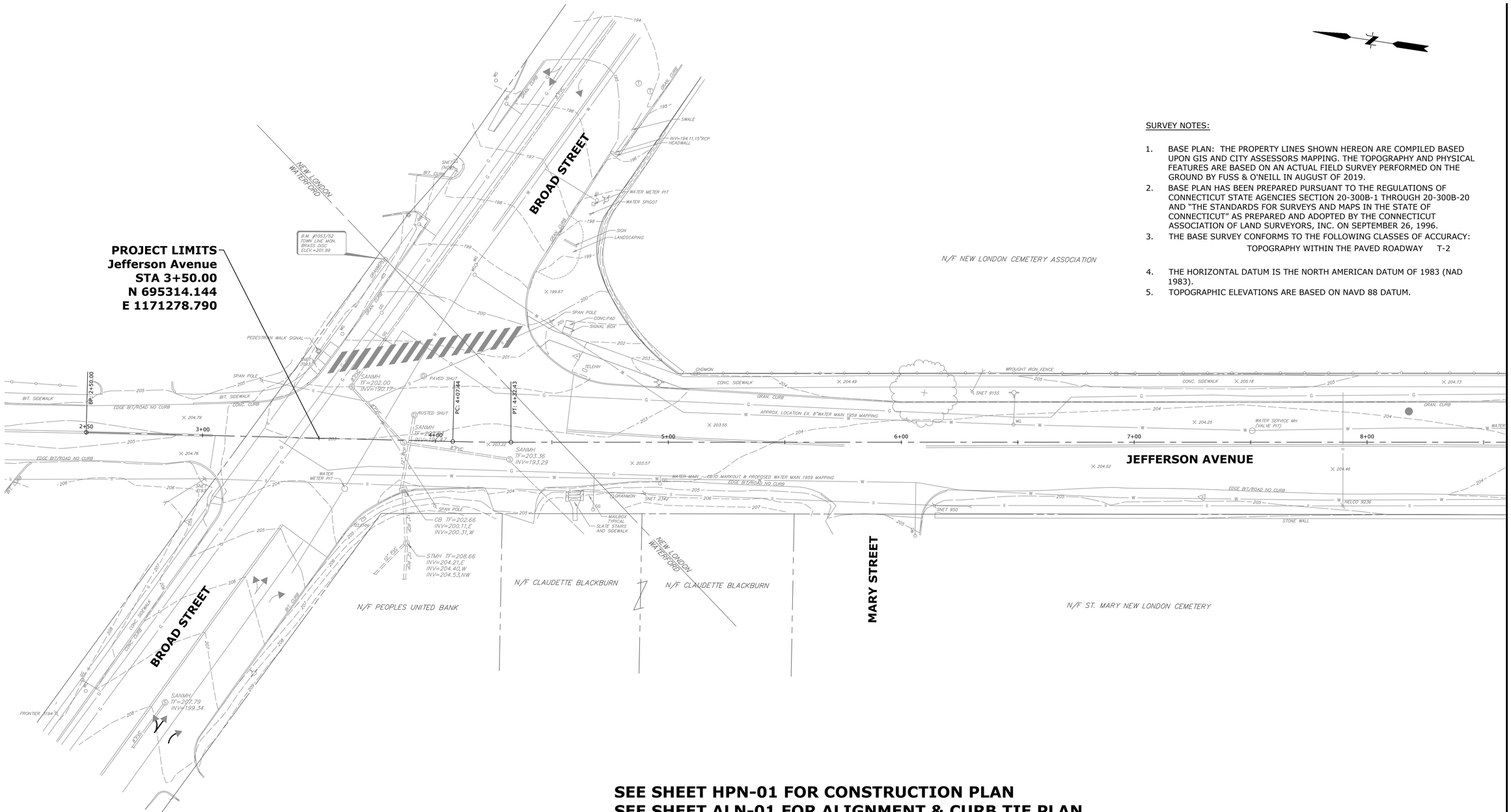
BORING LOGS

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2021

BOR-01



SURVEY NOTES:

1. BASE PLAN: THE PROPERTY LINES SHOWN HEREON ARE COMPILED BASED UPON GIS AND CITY ASSESSORS MAPPING. THE TOPOGRAPHY AND PHYSICAL FEATURES ARE BASED ON AN ACTUAL FIELD SURVEY PERFORMED ON THE GROUND BY FUSS & O'NEILL IN AUGUST OF 2019.
2. BASE PLAN HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTION 20-300B-1 THROUGH 20-300B-20 AND "THE STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS PREPARED AND ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.
3. THE BASE SURVEY CONFORMS TO THE FOLLOWING CLASSES OF ACCURACY:
   TOPOGRAPHY WITHIN THE PAVED ROADWAY T-2
4. THE HORIZONTAL DATUM IS THE NORTH AMERICAN DATUM OF 1983 (NAD 1983).
5. TOPOGRAPHIC ELEVATIONS ARE BASED ON NAVD 88 DATUM.

SEE SHEET HPN-01 FOR CONSTRUCTION PLAN
SEE SHEET ALN-01 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET GRA-01 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-01 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-01 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.:
VERT.:
20 10 0 20
GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

CITY OF NEW LONDON

EXISTING CONDITION PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

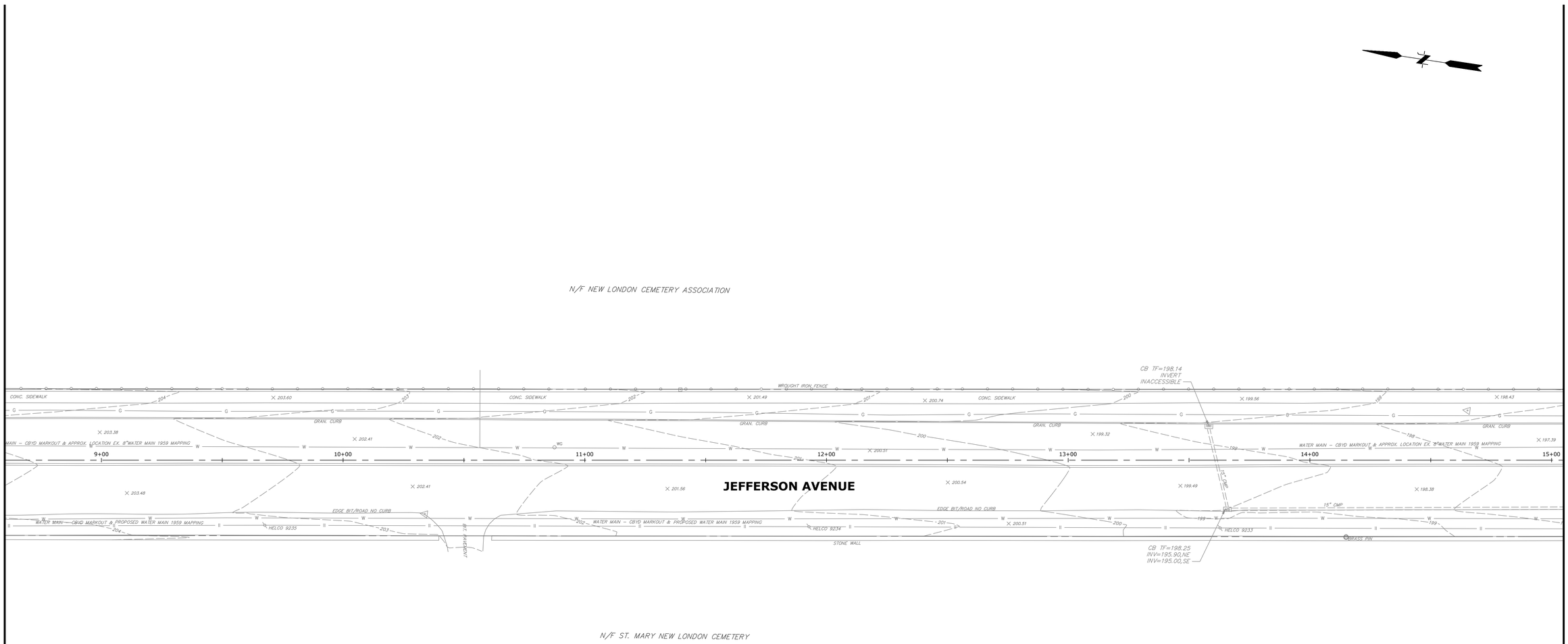
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

EXC-01

File Path: J:\DWG\P20170353A20\Civil\Plan\20170353A20_EXC01.dwg Layout: EXC-01 Plotted: Tue, January 25, 2022 - 3:02 PM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

MATCH LINE STA. 8+60.00



MATCH LINE STA. 15+05.00

SEE SHEET HPN-02 FOR CONSTRUCTION PLAN
SEE SHEET ALN-02 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET GRA-02 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-02 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-02 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.:
VERT.:
20 10 0 20
GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
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CITY OF NEW LONDON

EXISTING CONDITION PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

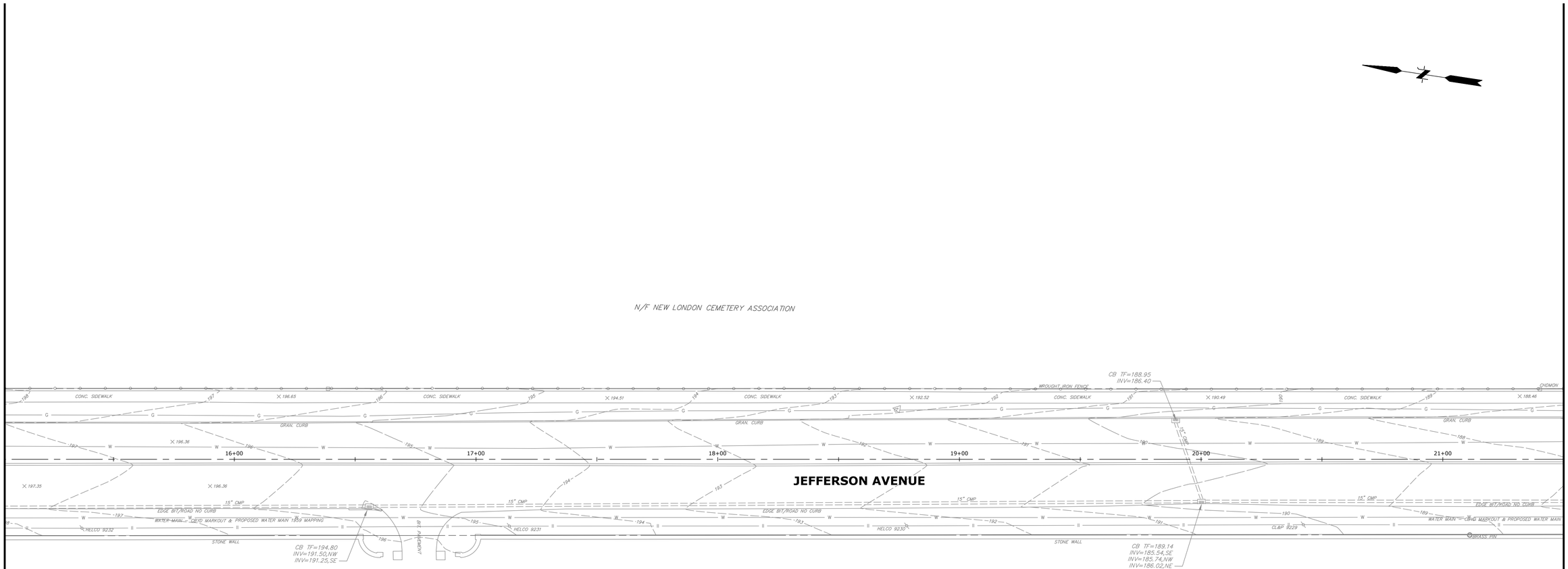
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

EXC-02

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

MATCH LINE STA. 15+05.00



MATCH LINE STA. 21+50.00

SEE SHEET HPN-03 FOR CONSTRUCTION PLAN
SEE SHEET ALN-03 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET GRA-03 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-03 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-03 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.:
VERT.:
20 10 0 20
GRAPHIC SCALE

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MANCHESTER, CONNECTICUT 06040
860.646.2469
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CITY OF NEW LONDON

EXISTING CONDITION PLAN

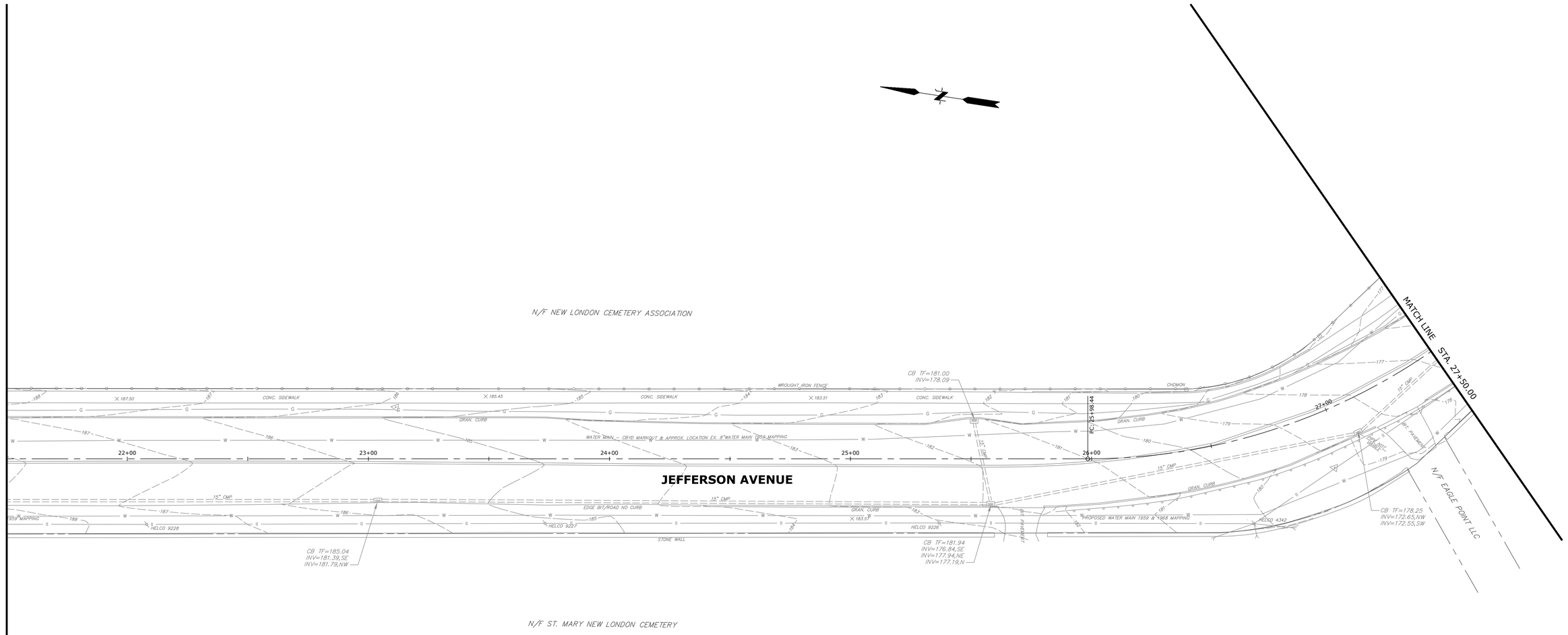
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

EXC-03

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MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB



SEE SHEET HPN-04 FOR CONSTRUCTION PLAN
SEE SHEET ALN-04 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET GRA-04 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-04 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-04 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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EXISTING CONDITION PLAN

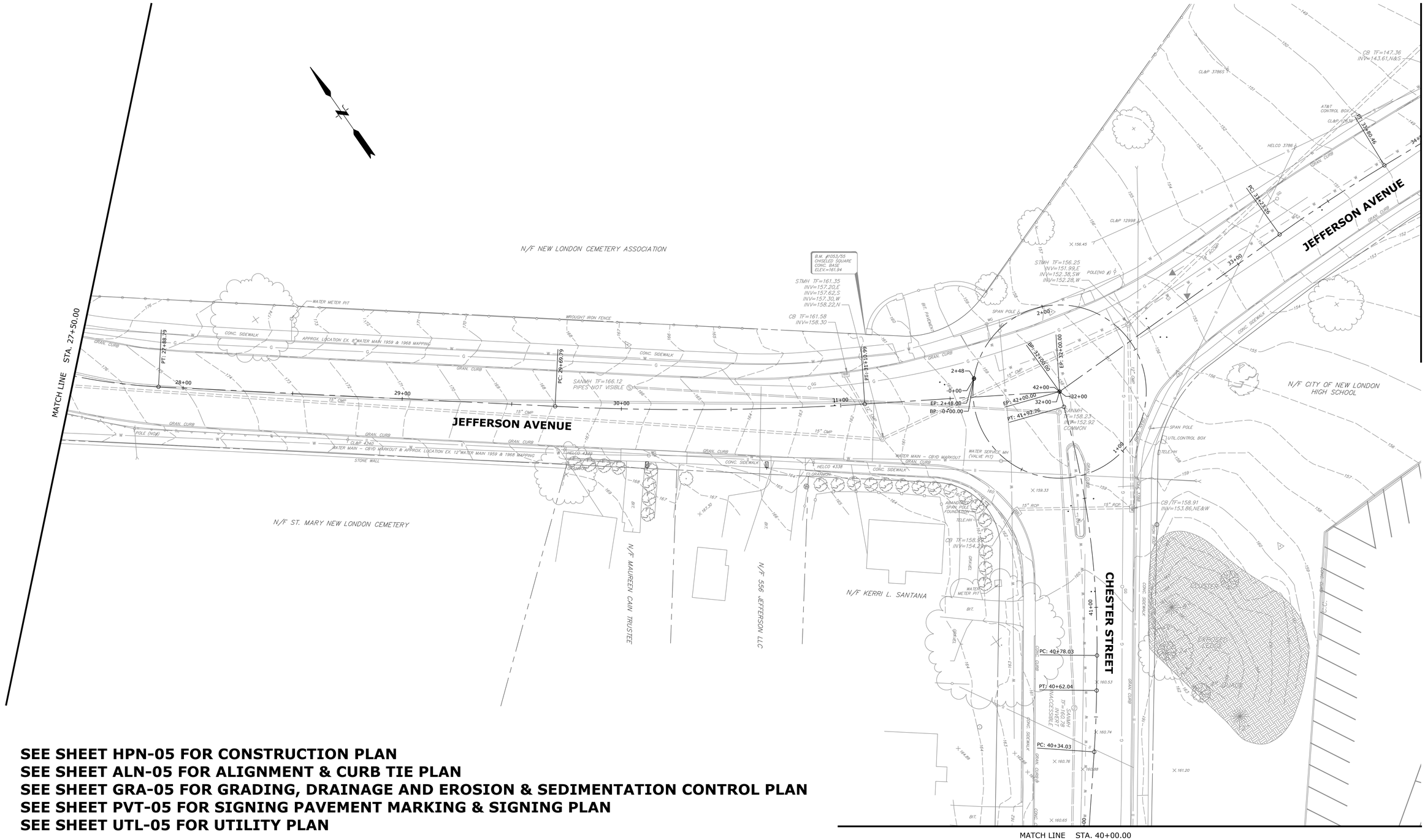
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PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

EXC-04

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SEE SHEET HPN-05 FOR CONSTRUCTION PLAN
SEE SHEET ALN-05 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET GRA-05 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-05 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-05 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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EXISTING CONDITION PLAN

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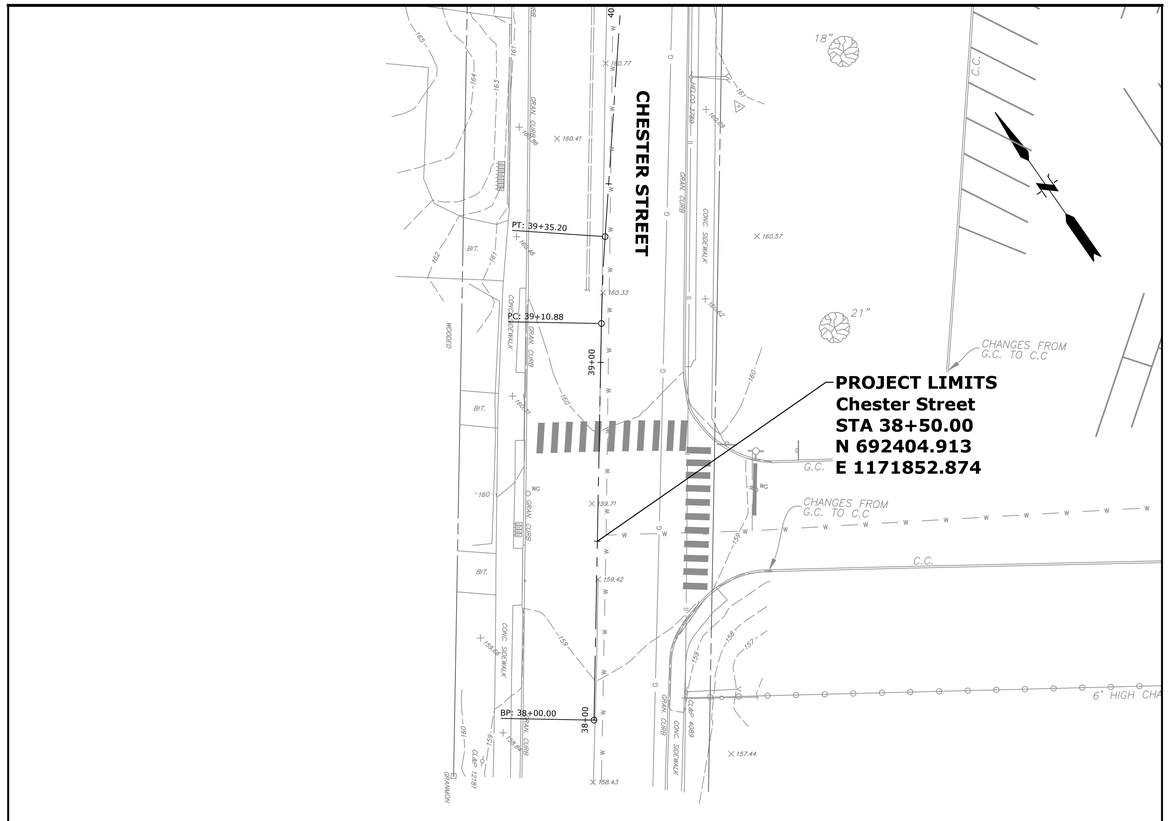
NEW LONDON CONNECTICUT

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DATE: FEBRUARY 2022

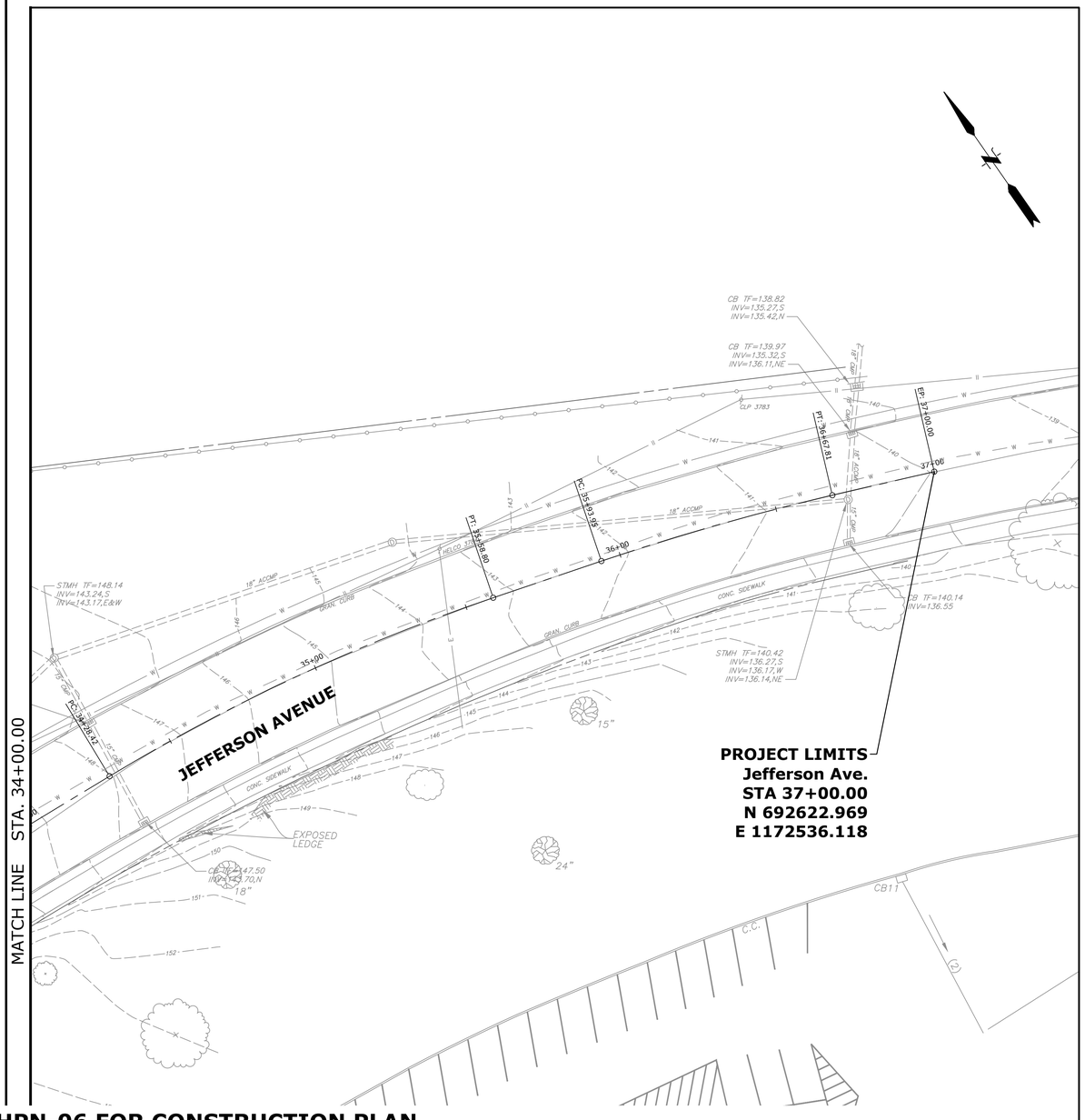
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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

MATCH LINE STA. 40+00.00



MATCH LINE STA. 34+00.00



SEE SHEET HPN-06 FOR CONSTRUCTION PLAN
SEE SHEET ALN-06 FOR ALIGNMENT & CURB TIE PLAN
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SEE SHEET UTL-06 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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EXISTING CONDITION PLAN

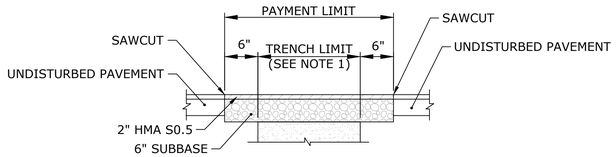
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NEW LONDON CONNECTICUT

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DATE: FEBRUARY 2022

EXC-06

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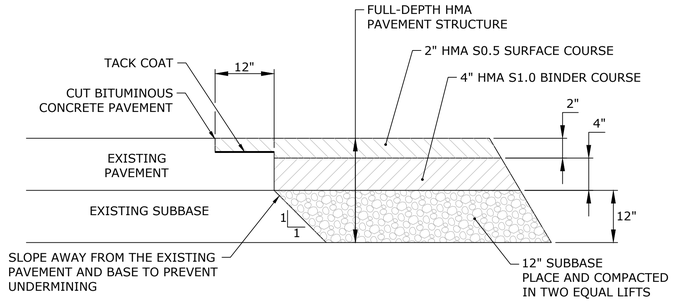


NOTES:

1. THE LIMIT OF THE TRENCH SHALL BE PIPE I.D. + 2'-0" FOR PIPES LESS THAN 30" IN DIAMETER. THE LIMIT OF HE TRENCH SHALL BE PIPE I.D. + 3'-0" FOR PIPES THAT ARE 30" OR GREATER IN DIAMETER.
2. THE CONTRACTOR SHALL SAWCUT ALL EXISTING PAVEMENT AT THE LIMITS OF TEMPORARY PAVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

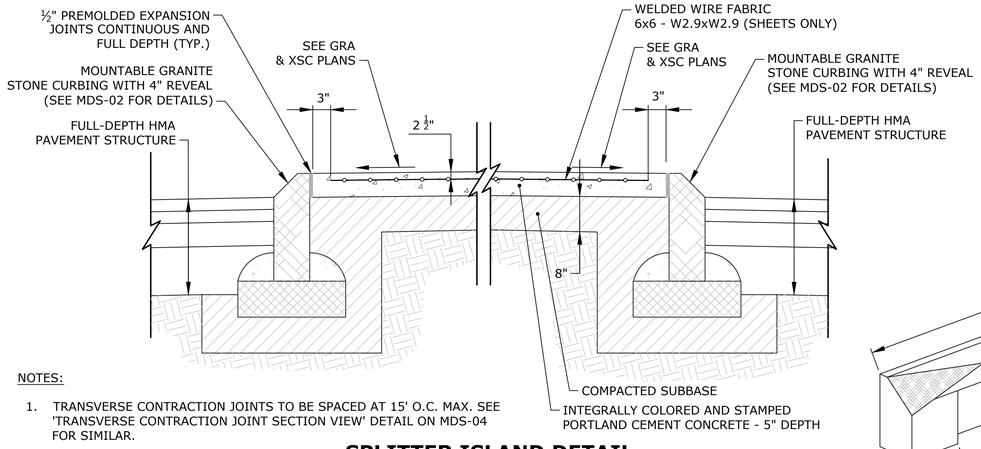
TEMPORARY PAVEMENT

N.T.S.



PAVEMENT TRANSITION DETAIL FOR PLACEMENT AT EXISTING PAVEMENT

N.T.S.

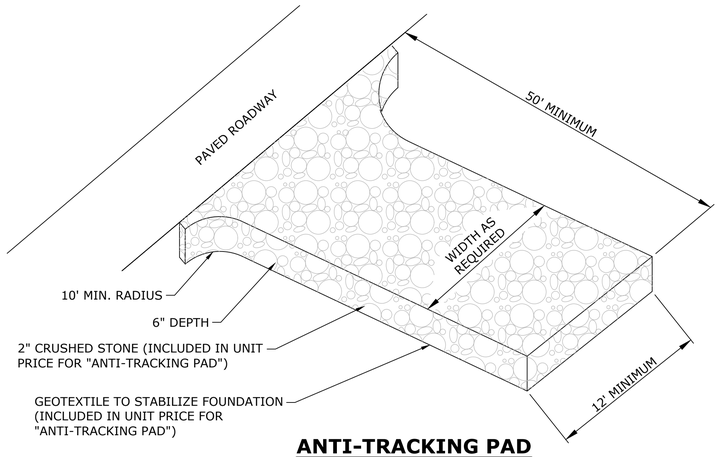


NOTES:

1. TRANSVERSE CONTRACTION JOINTS TO BE SPACED AT 15' O.C. MAX. SEE 'TRANSVERSE CONTRACTION JOINT SECTION VIEW' DETAIL ON MDS-04 FOR SIMILAR.

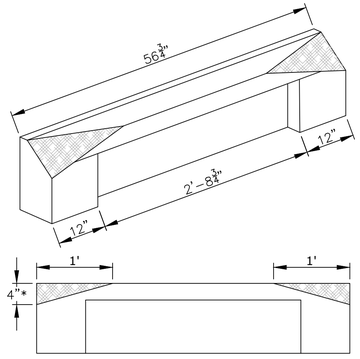
SPLITTER ISLAND DETAIL

N.T.S.

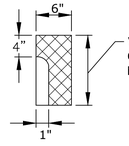


ANTI-TRACKING PAD

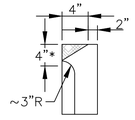
N.T.S.



FRONT ELEVATION



SECTION VIEW



END ELEVATION

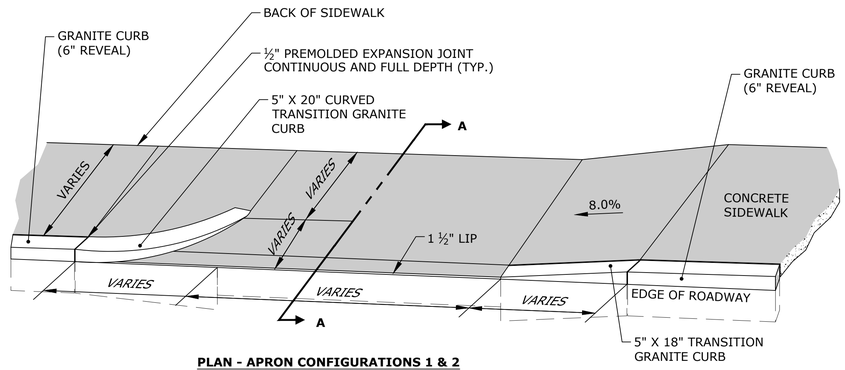
* DISTANCE EQUAL TO REVEAL OF INLET AND ADJACENT CURBING, 4" FOR SPLITTER ISLANDS.

NOTES:

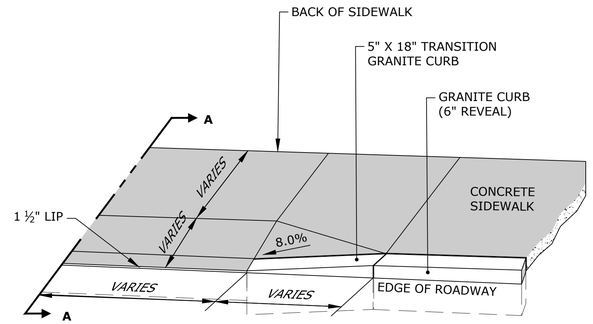
1. DIMENSIONS WILL BE AS SHOWN ABOVE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. CURVED INLETS WILL BE CUT TO THE CURVE REQUIRED. JOINTS WILL BE CUT ON RADIAL LINES.

TYPE 'C' CATCH BASIN GRANITE INLET W/ 4" MOUNTABLE REVEAL AT SPLITTER ISLAND STRAIGHT OR RADIUS

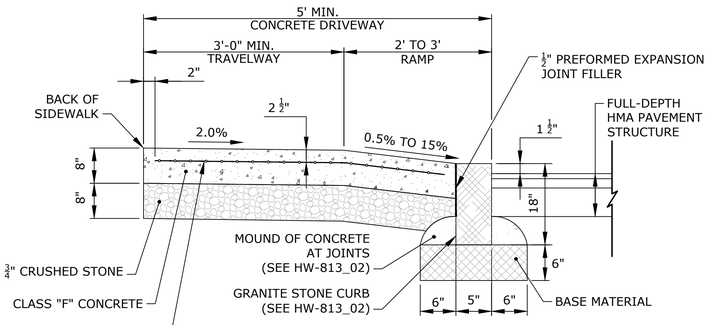
N.T.S.



PLAN - APRON CONFIGURATIONS 1 & 2



PLAN - APRON CONFIGURATION 3



SECTION A-A

CONCRETE DRIVEWAY APRON

N.T.S.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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SCALE:
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VERT.:
DATUM:
HORZ.:
VERT.:
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MISCELLANEOUS DETAILS

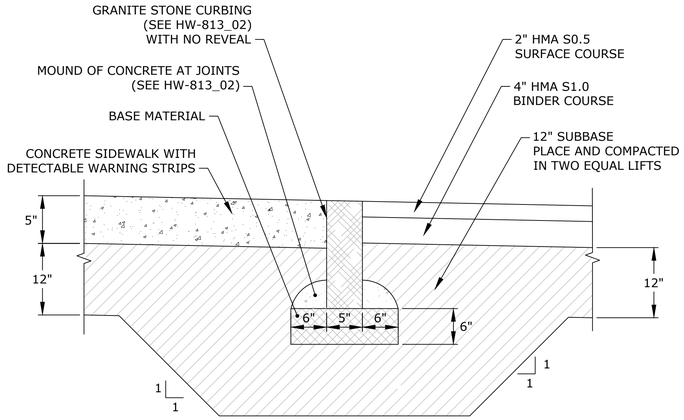
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

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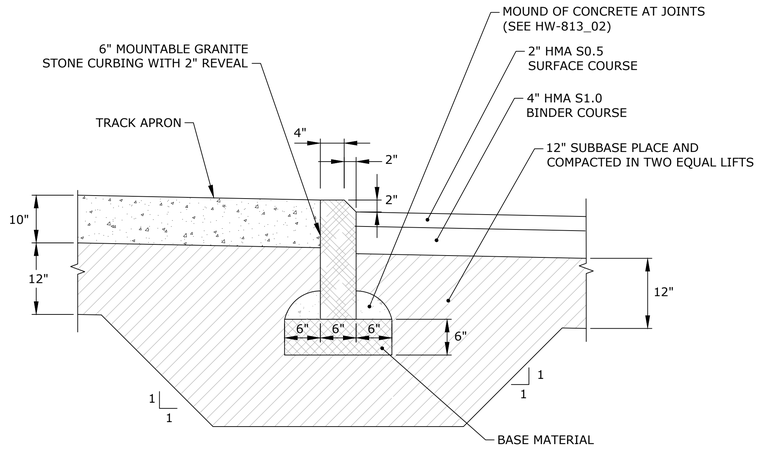
PROJ. No.: 20170353.A20
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MDS-01

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LAYER STATE:
MS VIEW:



FLUSH GRANITE STONE CURBING
ACROSS CROSSWALKS AT SPLITTER ISLANDS

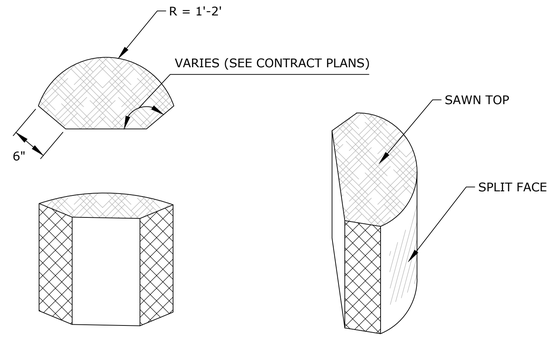


MOUNTABLE GRANITE STONE CURBING
WITH 2" REVEAL FOR TRUCK APRON

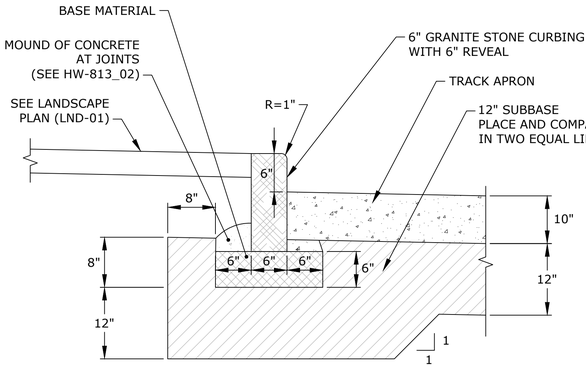
NOTES:

1. FOR ALL GRANITE STONE CURBING, PLACE CONCRETE ONLY AT JOINTS (SEE HW-813_02), REMAINDER TO BE BASED MATERIAL.

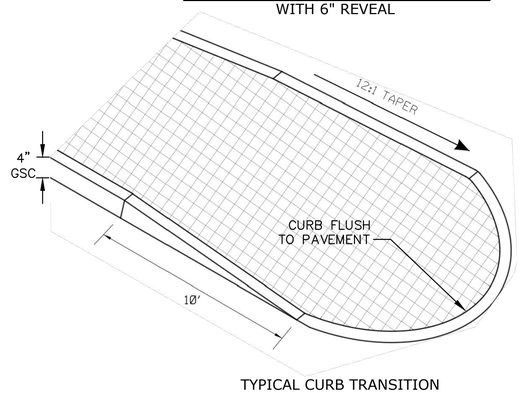
2. RADIUS (CURVED) CURBING APPLIES TO RADII OF 100' OR LESS.



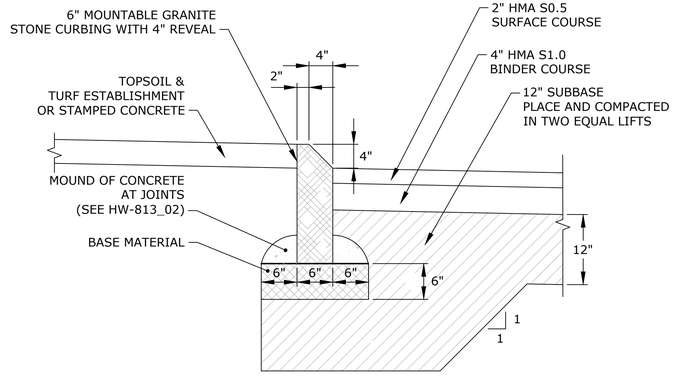
GRANITE STONE CURBING
WITH 1'-2' RADIUS NOSE DETAIL



CENTRAL ISLAND GRANITE STONE CURBING
WITH 6" REVEAL



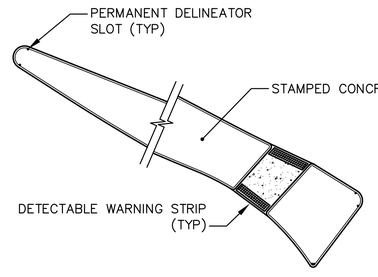
TYPICAL CURB TRANSITION



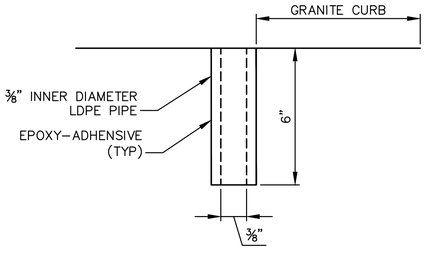
GRANITE STONE CURBING*		
SEGMENT	WIDTH	DEPTH
STRAIGHT	6 IN	18 IN
CURVED	6 IN	20 IN

MOUNTABLE GRANITE SLONE CURBING
WITH 4" REVEAL FOR SPLITTER ISLANDS

* TABLE IS FOR GRANITE STONE CURBING INSTALLED WITHIN THE SPLITTER ISLANDS, CENTRAL ISLAND, AND TRUCK APRON. TABLE DOES NOT APPLY TO FLUSH STONE CURBING WITHIN THE SPLITTER ISLANDS, SEE HW_813_02 FOR THOSE STONE CURBING DIMENSIONS.



SPLITTER ISLAND LAYOUT



PERMANENT DELINEATOR SLOT DETAIL

NOTES

1. THE LDPE PIPE FOR THE PERMANENT DELINEATOR SLOT SHALL BE INSERTED INTO A DRILLED HOLE IN THE STAMPED CONCRETE SPLITTER ISLAND DIRECTLY ADJACENT TO THE BACK OF THE CURB.
2. THE LDPE PIPE SHALL BE CHEMICALLY ADHERED TO THE CONCRETE USING AN EPOXY-ADHESIVE APPROVED BY THE ENGINEER. THE EPOXY-ADHESIVE SHALL COMPLETELY BOND THE OUTER SURFACE OF PIPE THE CONCRETE.
3. THE DELINEATOR SLOT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TYPE DE-3 DELINEATOR."

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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SEAL

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MISCELLANEOUS DETAILS

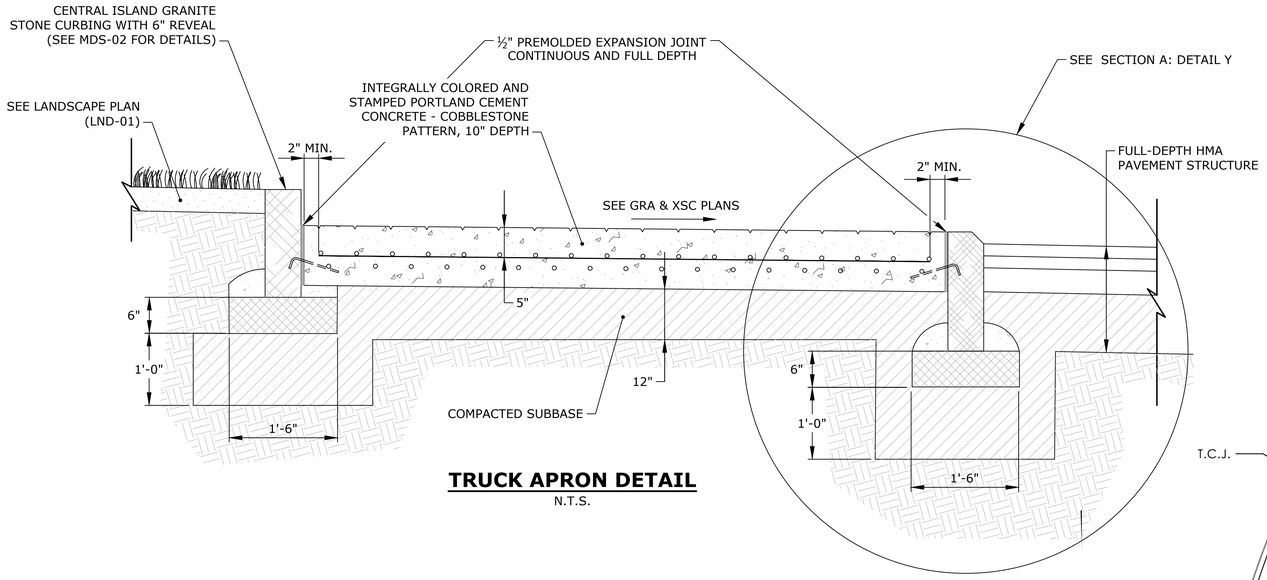
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NEW LONDON CONNECTICUT

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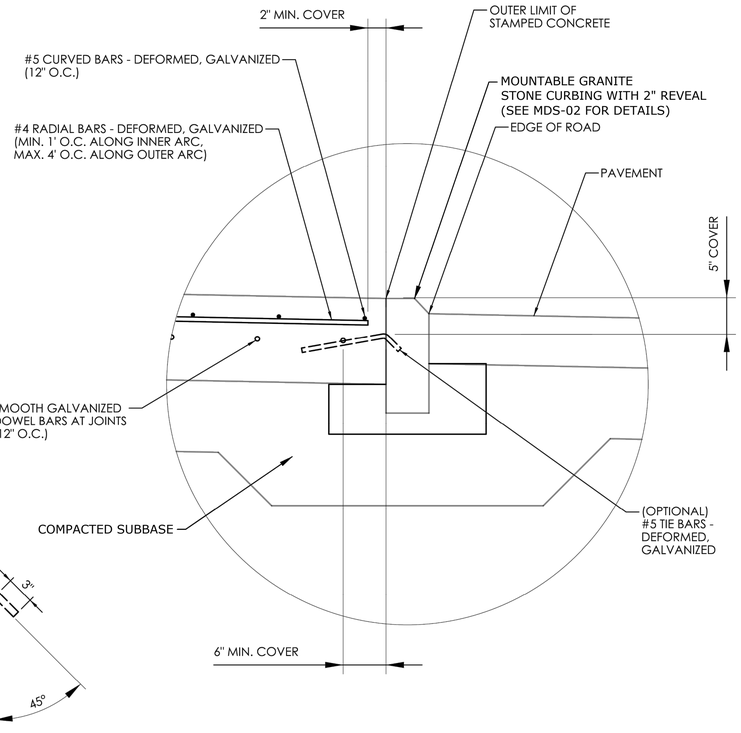
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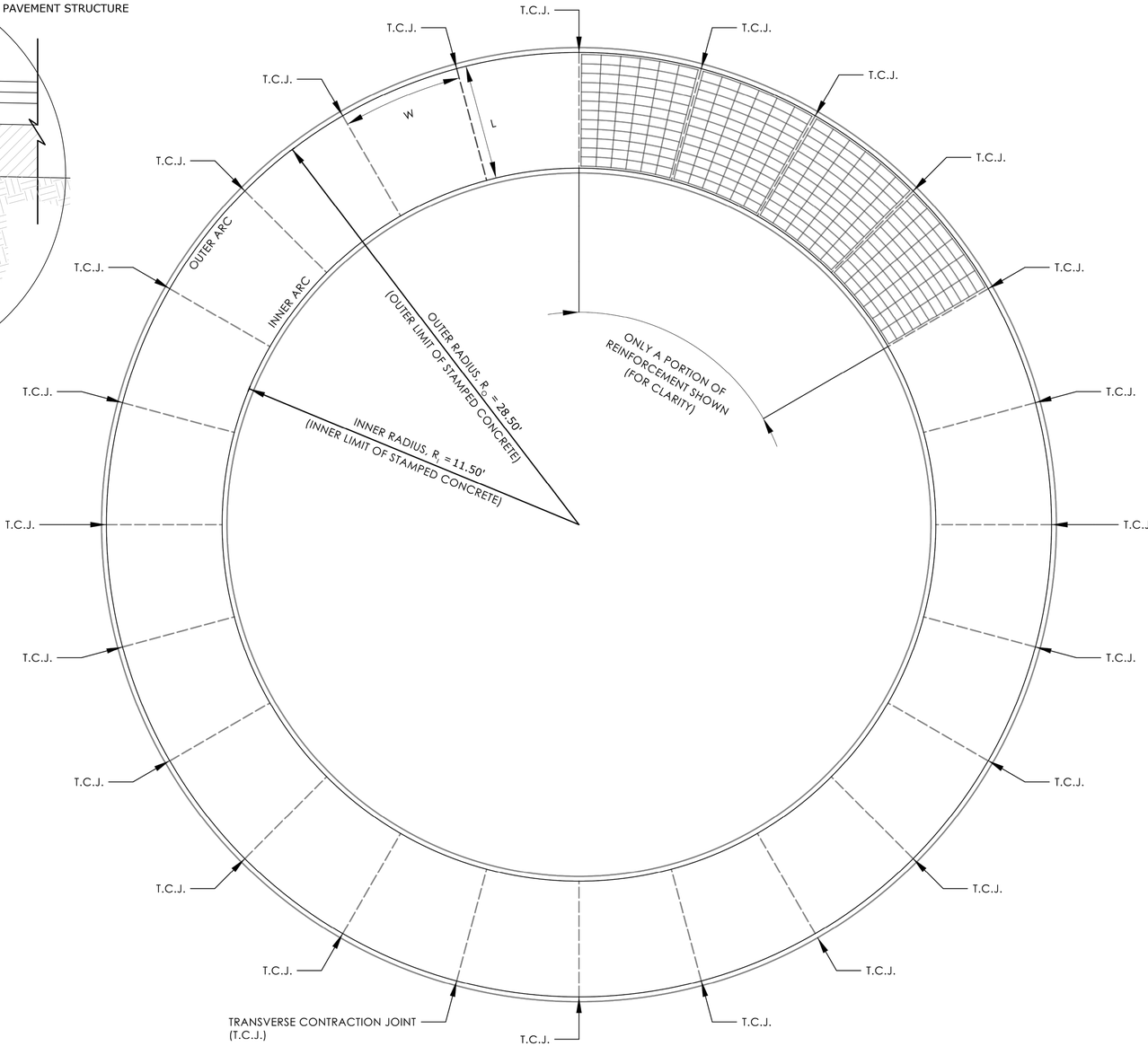
TRUCK APRON DETAIL

N.T.S.



SECTION A: DETAIL Y

N.T.S.



PLAN VIEW - TRUCK APRON

N.T.S.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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NEW LONDON CONNECTICUT

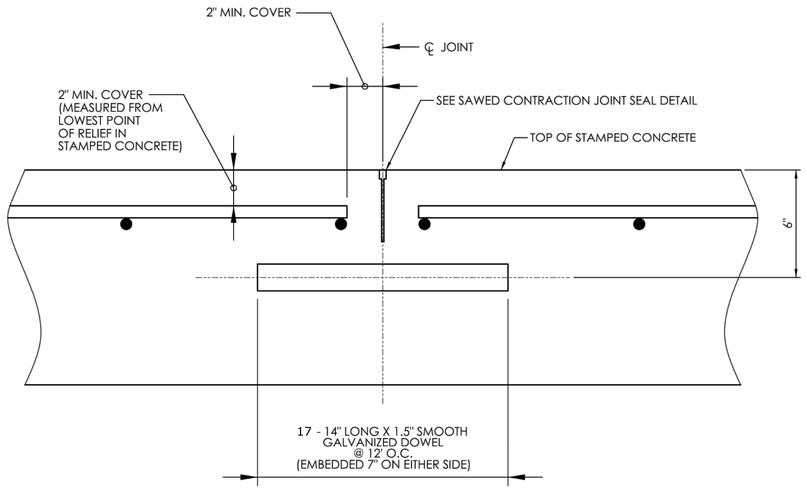
PROJ. No.: 20170353.A20
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MDS-03

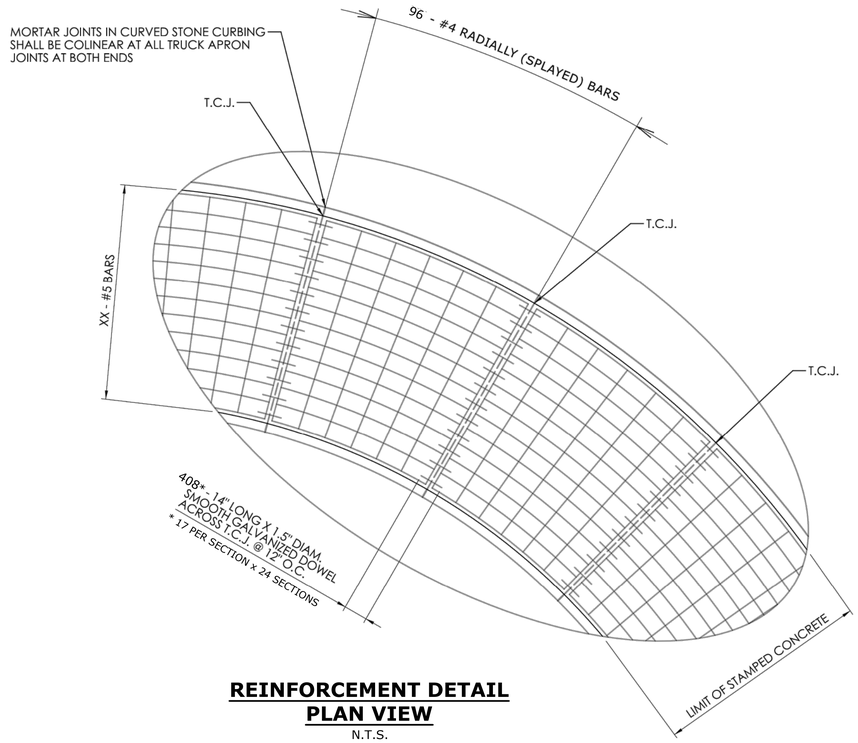
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GENERAL NOTES:

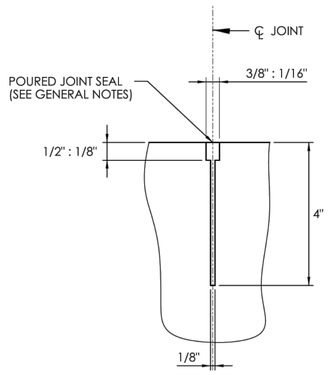
1. MATERIALS FOR SIDE FRAMES AND CENTER SUPPORTS SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS M.06 - METALS. ALTERNATE FRAME DESIGN MAY BE APPROVED.
2. ALL SIDE FRAMES AND CENTER SUPPORTS SHALL BE 1 GAUGE WIRE AND 5/16" BARS THROUGHOUT.
3. SUPPORT REINFORCING BARS WITH PLASTIC CHAIRS.
4. ALL REINFORCEMENT SHALL BE GALVANIZED. DOWEL BARS AND BASKETS TO BE PAID UNDER ITEM "TRANSVERSE CONTRACTION JOINT." ALL OTHER ELEMENTS TO BE PAID UNDER ITEM "DEFORMED STEEL BARS - GALVANIZED."
5. DOWEL BAR DIAMETER SIZES ARE EXCLUSIVE OF COATING. ALL DIMENSIONS SUBJECTED TO MANUFACTURING TOLERANCES.
6. BOND-BREAKING MATERIAL APPLIED TO EACH DOWEL SHALL CONSIST OF PARAFFIN WAX, LITHIUM GREASE, OR OTHER SEMI-SOLID, INERT LUBRICANT.
7. AT FIRST POURING, THE JOINT SEAL MATERIAL SHALL FILL THE JOINT FLUSH WITH THE PAVEMENT SURFACE. AFTER THIS MATERIAL HAS COOLED AND CONTRACTED, THE REMAINING JOINT OPENING SHALL BE FILLED FLUSH WITH THE PAVEMENT SURFACE.



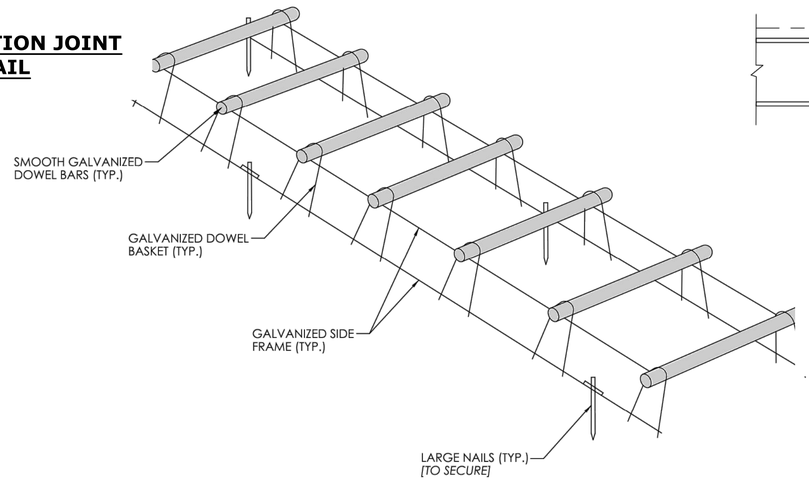
TRANSVERSE CONTRACTION JOINT
SECTION VIEW
N.T.S.



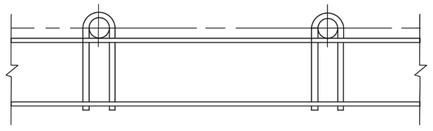
REINFORCEMENT DETAIL
PLAN VIEW
N.T.S.



SAWED CONTRACTION JOINT
SEAL DETAIL
N.T.S.

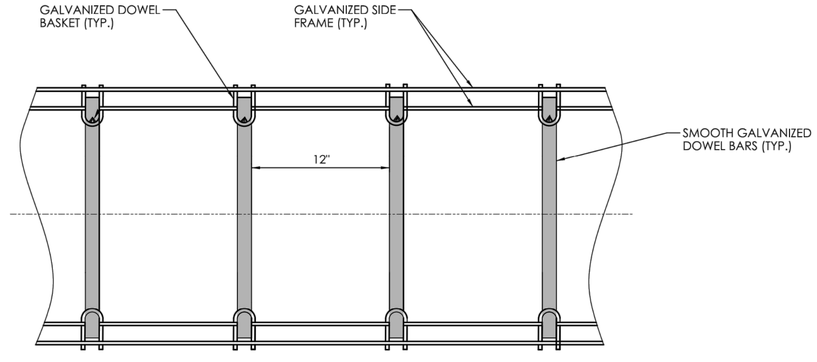


ISOMETRIC VIEW



SIDE VIEW

WELDED DOWEL ASSEMBLY AT
CONTRACTION JOINT
N.T.S.



PLAN VIEW

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: N.T.S.
VERT.:
DATUM:
HORZ.:
VERT.:
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MISCELLANEOUS DETAILS

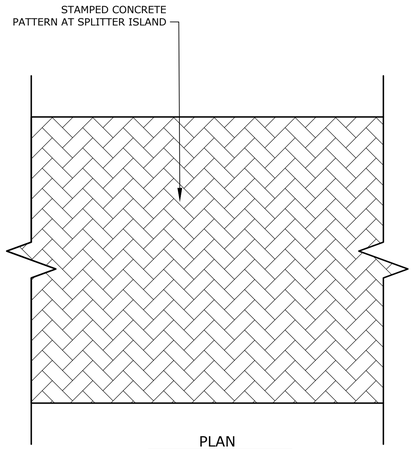
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

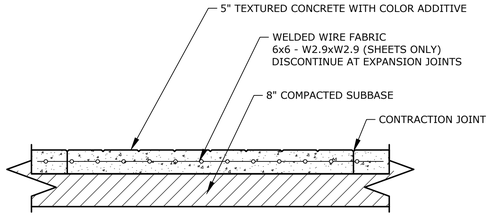
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MDS-04

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Plotter: DWG TO PDF.PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



PLAN
NOT TO SCALE



SECTION
NOT TO SCALE

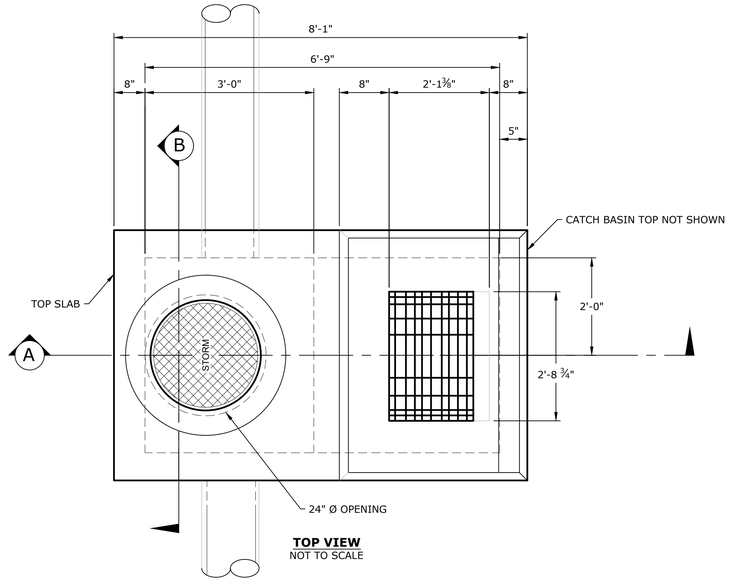
NOTES:

1) ALL WELDED WIRE FABRIC SHOULD HAVE A MINIMUM OF 2" OF COVER
2) OWNER SHALL SELECT STAMPED PATTERN AND COLOR. CONTRACTOR TO PROVIDE 48" X 48" SAMPLE FOR ENGINEER AND OWNER APPROVAL.
3) CONTRACTION JOINTS SHALL BE SPACED A MAXIMUM OF 15 FEET ON CENTER.
4) WELDED WIRE FABRIC TO BE PAID UNDER ITEM "WELDED WIRE FABRIC."

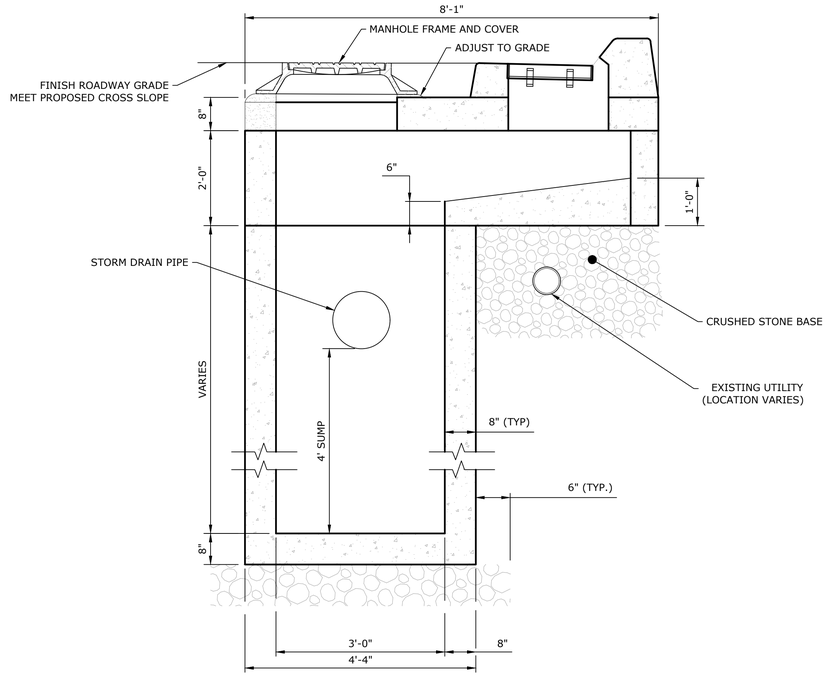
* REINFORCEMENT NOT SHOWN IN PLAN VIEW FOR CLARITY.
* USE THIS PATTERN FOR "STAMPED CONCRETE - SPLITTER ISLAND" ITEMS.

STAMPED CONCRETE - SPLITTER ISLAND

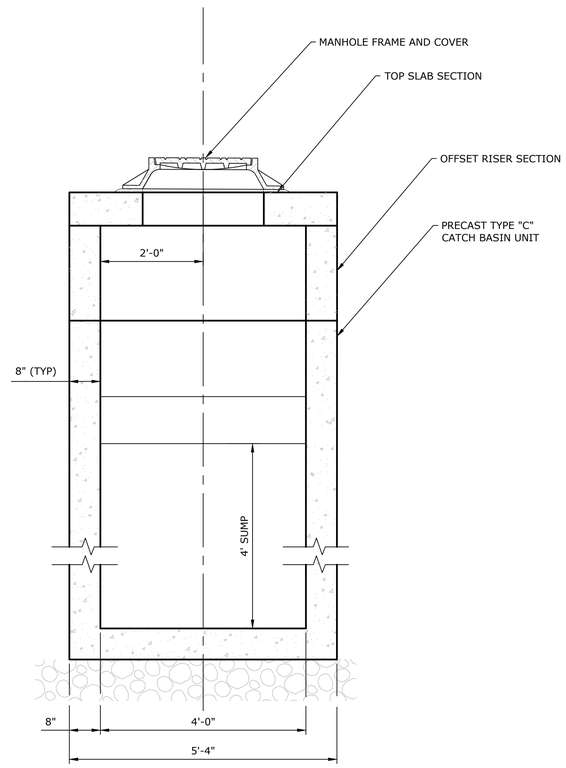
N.T.S.



TOP VIEW
NOT TO SCALE



SECTION A
NOT TO SCALE



SECTION B
NOT TO SCALE

PRECAST UNITS:

1. REINFORCING STEEL WELDED WIRE FABRIC TO CONFORM TO LATEST ASTM SPECIFICATION A185
2. REINFORCING STEEL DEFORMED BARS TO CONFORM TO LATEST ASTM SPECIFICATIONS A615, GRADE 60.
3. CONCRETE COMPRESSIVE STRENGTH - 4,000 PSI @ 28 DAYS
4. METHOD OF MANUFACTURE: WET CAST
5. DESIGN LOAD: AASHTO H-20

TOP SLAB REINFORCING	
SHORT DIRECTION	#5 @ 6" O.C. 1 ½" COVER FROM BOTTOM OF SLAB
LONG DIRECTION	#4 @ 8" O.C.

OFFSET RISER REINFORCING	
HORIZONTAL DIRECTION	#4 @ 12" O.C. 1½" COVER FROM OUTSIDE WALL FACE
VERTICAL DIRECTION	#4 @ 12" O.C.

OFFSET TYPE 'C' CATCH BASIN (4' SUMP) - 0' - 10' DEEP

N.T.S.

File Path: J:\DWG\P20170353\A20\Civil\Details\20170353A20_MDS01.dwg Layout: MDS-05 Plotted: Thu, January 27, 2022 - 12:47 PM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

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1.			XX/XX	XX

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SCALE:
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VERT.:
DATUM:
HORZ.:
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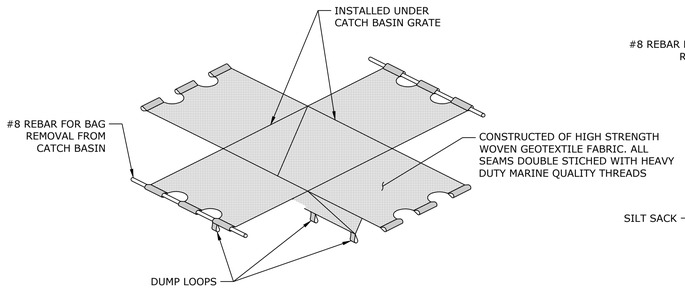
MISCELLANEOUS DETAILS

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

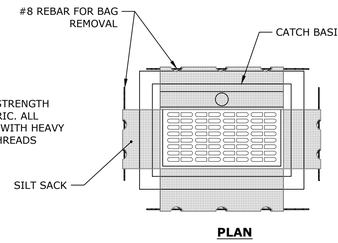
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MDS-05



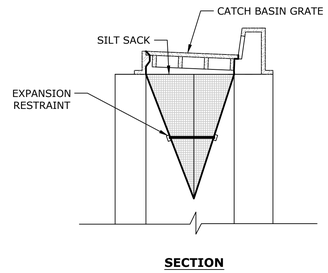
ISOMETRIC



PLAN

NOTES:

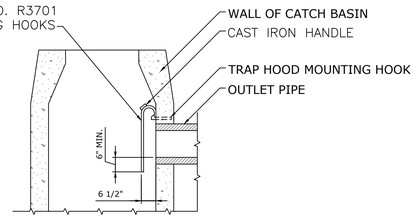
1. INSTALL SEDIMENTATION CONTROL SYSTEMS IN ALL CATCH BASINS BEFORE COMMENCING EXCAVATION AND TRENCHING WORK.
2. GRATE TO BE PLACED OVER SILTSACK.
3. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED



SECTION

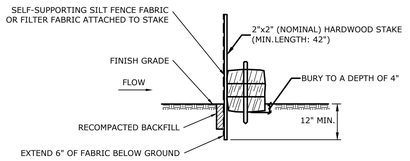
SEDIMENTATION CONTROL SYSTEM AT CATCH BASIN

N.T.S.



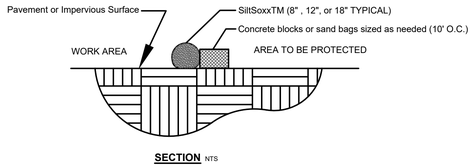
TRAP HOOD

N.T.S.

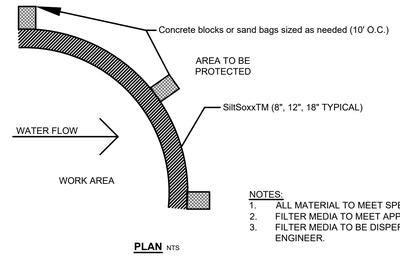


SEDIMENTATION CONTROL SYSTEM - SILT FENCE BACKED W/ STRAW BALES

N.T.S.



SECTION NTS

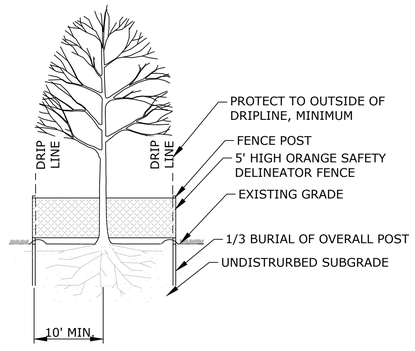


NOTES:
1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. FILTER MEDIA TO MEET APPLICATION REQUIREMENTS.
3. FILTER MEDIA TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

PLAN NTS

Sediment Control System - SiltSoxxTM on Pavement

NTS

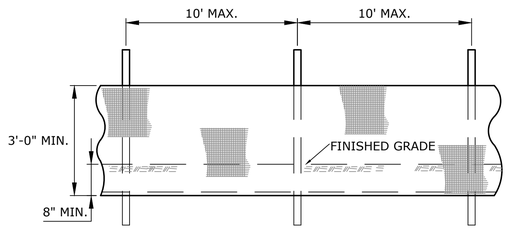


NOTES:

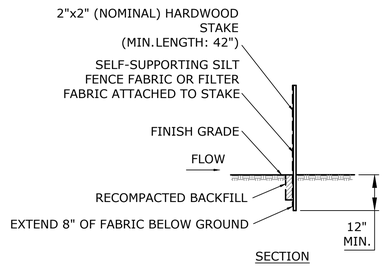
1. COORDINATE LOCATION OF FENCE WITH PROJECT ENGINEER.
2. IF EXCAVATION OCCURS WITHIN DRIPLINE, EXISTING ROOTS SHALL BE CLEANLY CUT PRIOR TO EXCAVATION BY A CERTIFIED ARBORIST AND TREES SHALL BE WATERED.

TREE PROTECTION

N.T.S.



ELEVATION



SECTION

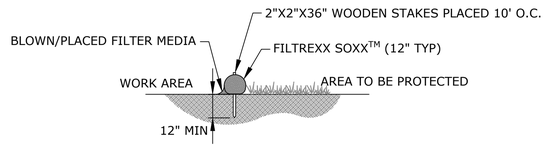
SILT FENCE NOTES:

1.) INSTALL SILT FENCE & WOOD STAKES AS RECOMMENDED BY MANUFACTURER.

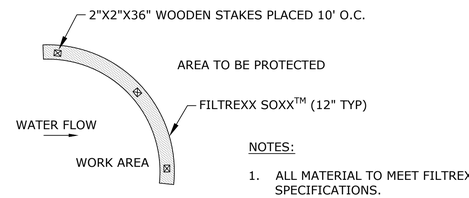
2.) SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE FILAMENTS AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE SPECIFICATIONS.

SEDIMENTATION CONTROL SYSTEM - SILT FENCE

N.T.S.



SECTION



PLAN

NOTES:

1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

SEDIMENT CONTROL SYSTEM - FILTREXX SILT SOCK

N.T.S.

File Path: J:\DWG\P20\20170353\A20\Civil\Details\20170353A20_MDS01.dwg Layout: MDS-06 Plotted: Thu, January 27, 2022 - 12:47 PM User: stanski
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No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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DATUM:
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VERT.:
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GRAPHIC SCALE

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CITY OF NEW LONDON

MISCELLANEOUS DETAILS

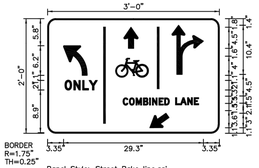
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MDS-06

SIGN DETAIL
1:15



Panel Style: Street Bake line.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: Street Bake line.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	Street Bike lane
WIDTH x HGHT.	3'-0" x 2'-0"
BORDER WIDTH	0.25"
CORNER RADIUS	1.75"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

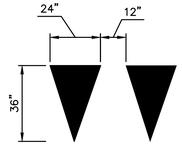
SYMBOL	ROT	X	Y	WID	HT
AR_Type D	0	16	17.7	3	4.5
ARPCL1	0	3.4	12.1	5	6.2
Bicycle	0	14.3	11.7	6.9	4
ARR3_2	0	26.1	12.3	6.6	10.4
AR_Type D	125	21.4	1.1	3	4.5

LETTER POSITIONS (X)																				LENGTH	SERIES/SIZE
O	N	L	Y																		D 2000
3.6	5.5	7.3	8.7																	6.8	2
C	O	M	B	I	N	E	D														D 2000
15.8	17.2	18.5	20.1	21.4	22	23.3	24.5													9.7	1.5
L	A	N	E																		D 2000
26.8	27.8	29.3	30.7																	4.8	1.5

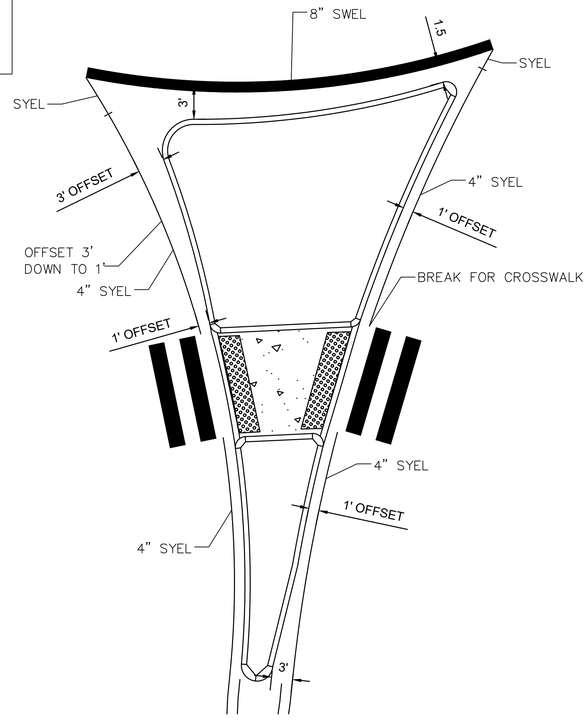
TRAFFIC REGULATORY SIGNS
N.T.S



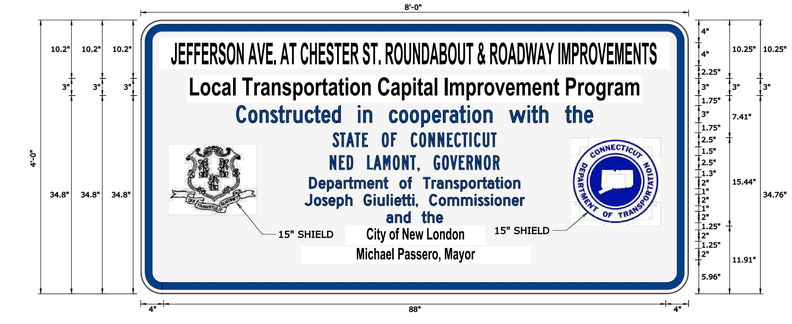
ROUNDABOUT DOTTED EXTENSION LINE (DEL)



YIELD LINE DETAIL
N.T.S



TYPICAL PAVEMENT MARKINGS AT SPLITTER ISLANDS
N.T.S



NOTE:

1. SIGN TO BE PAID UNDER ITEM #1220027A 'CONSTRUCTION SIGNS.'
2. SEE SPECIFICATION (#1220027A) FOR SIGN CONSTRUCTION REQUIREMENTS.

TEMPORARY FUNDING PROGRAM SIGN
N.T.S

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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SCALE:
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MISCELLANEOUS DETAILS

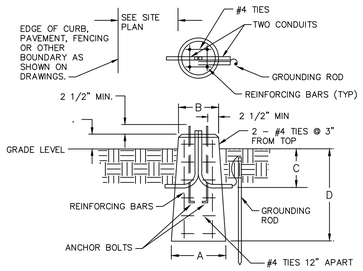
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MDS-07

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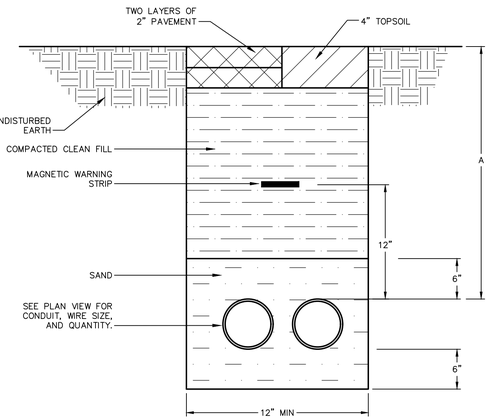


1. NUMBER, PATTERN AND SIZE OF ANCHOR BOLTS TO BE SPECIFIED BY LIGHTING POLE MANUFACTURER.
2. 4,000 PSI CONCRETE CURED FOR 7 DAYS PRIOR TO BACKFILL.
3. SONOTUBES SHALL BE CUT AND REMOVED DOWN 12" BELOW GRADE.
4. NO. 5 REINFORCING BARS, ASTM A 615, GRADE 60 WITH MINIMUM 2" COVER.
5. EACH LIGHTING POLE SHALL BE GROUNDED WITH 8' LONG 3/4" DIAMETER COPPER GROUNDING ROD AND #6 AWG BARE COPPER CONDUCTOR. TOP OF GROUNDING ROD SHALL BE 6" BELOW GRADE.

ROUND POLE BASE DIMENSIONS					
FIXTURE TYPE	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	DIMENSION "D"	DIMENSION "E"
1.1 THRU 1.6	30"	30"	24"	54"	4"
1.7 THRU 1.9	18"	18"	24"	42"	4"

NOTE: DIMENSION "E" IS UNLESS OTHERWISE NOTED ON PLANS.

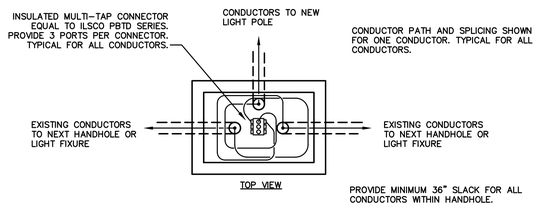
LIGHT POLE FOUNDATION
N.T.S.



CONDUIT DEPTHS	
SERVICE	DIM "A"
SECONDARY	24"
SITE LIGHTING	24"

NOTE:
WHEN MULTIPLE CONDUITS ARE BURIED TOGETHER THERE SHALL BE A MINIMUM OF 2" CLEARANCE BETWEEN CONDUITS.

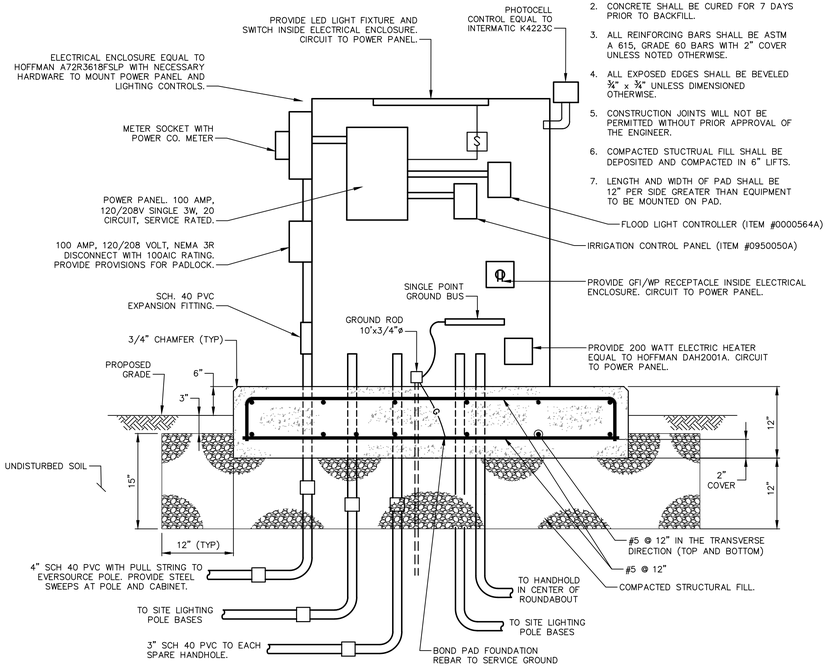
TRENCHING AND BACKFILLING (ELECTRICAL)
N.T.S.



HANDHOLE SPLICING DETAIL
N.T.S.

CKT	DESCRIPTION	VA	VOLTS	PH	WIRE	CONDUIT	AMPS	POLES	REMARKS
1	STREET LIGHTING	540	208	1			20	2	
2	ENCLOSURE HEATER	200	120	1	#12 AWG	3/4" EMT	20	1	
3	ENCLOSURE RECEPTACLE	180	120	1	#12 AWG	3/4" EMT	20	1	
4	ENCLOSURE LIGHT	100	120	1	#12 AWG	3/4" EMT	20	1	
5	IRRIGATOIN CONTROL PANEL	100	120	1	#12 AWG	3/4" EMT	20	1	
6	ROUNDABOUT LIGHTING	500	208	1			20	2	
7	FLOOD LIGHTS	150	120	1	SEE DETAILS		20	1	
8	FLOOD LIGHT CONTROLLER	50	120	1	SEE DETAILS		20	1	
9	SPARE CIRCUIT BREAKERS		120	1			20	4	4 - SINGLE POLE C/B'S
10	SPARE SPACE							7	

POWER PANELBOARD SCHEDULE
N.T.S.



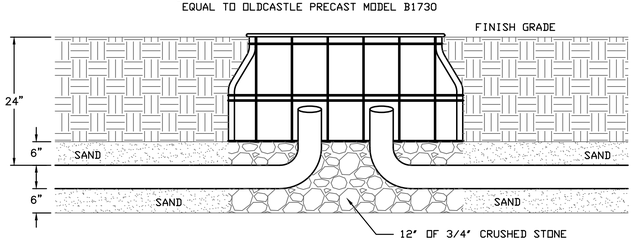
NOTES:

1. CONCRETE SHALL BE 4,000 PSI CONCRETE.
2. CONCRETE SHALL BE CURED FOR 7 DAYS PRIOR TO BACKFILL.
3. ALL REINFORCING BARS SHALL BE ASTM A 615, GRADE 60 BARS WITH 2" COVER UNLESS NOTED OTHERWISE.
4. ALL EXPOSED EDGES SHALL BE BEVELED ¾" x ¾" UNLESS DIMENSIONED OTHERWISE.
5. CONSTRUCTION JOINTS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
6. COMPACTED STUCTRUAL FILL SHALL BE DEPOSITED AND COMPACTED IN 6" LIFTS.
7. LENGTH AND WIDTH OF PAD SHALL BE 12" PER SIDE GREATER THAN EQUIPMENT TO BE MOUNTED ON PAD.

DECORATIVE LIGHT CONTROL CABINET ELECTRICAL SERVICE
N.T.S.

PROVIDE IN-GROUND HANDHOLE BOX:
- HIGH DENSITY REINFORCED CONCRETE
- H-20 RATING
- STEEL CHECKER COVER, BOLT DOWN
- 'ELECTRIC' OR 'TELCOM' ENGRAVED IN COVER

EQUAL TO OLDCASTLE PRECAST MODEL B1730



CONCRETE HANDHOLE (SPECIAL)
N.T.S.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: N.T.S.
VERT.:
DATUM:
HORZ.:
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860.646.2469
www.fando.com

CITY OF NEW LONDON

MISCELLANEOUS DETAILS

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MDS-08

File Path: J:\DWG\P20170353A20\Civil\Details\20170353A20_MDS01.dwg Layout: MDS-08 Plotted: Thu, January 27, 2022 - 12:47 PM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

FLC230 LED COLOR CHANGER

667-3327

1/23

we-ef

NEW LONDON ROUNDABOUT
JEFFERSON STREET
FL1-FL2-FL3

667-3327/667-9348/667-9221/
400-9008/400-9013/400-9002



Description
RGBW/RGBA Color Changer. IP66, Class I. IK07. Marine-grade, die-cast aluminum alloy. 5C5 superior corrosion protection including PCS hardware. Silicone CCG® Controlled Compression Gasket. Safety glass lens. Two cable glands; one for power, one for DMX. Integral driver thermally separated. CAD-optimized optics for superior illumination and glare control. DLC® One LED Concept. Factory-installed LED circuit board with WE-EF Color Boost Technology. With Color Boost the targeted and selective control of individual channels or colors means that a higher power of the LEDs can be accessed than in total when all colors are simultaneously operated. The light output is thus maximized by targeted control of individual channels/colors. DMX interface. For the M20 cable gland for network- and DMX-connection, WE-EF recommends a multi-core cable for DMX and power, "Power PUR-SR 3x1.5 + DMX". Specify product with 7 Digit product code – Finish Color. (Other accessories, such as mounting, optical, and electrical, must be specified separately). Example: XXX-XXXX-9004 (Black) + XXX-XXXX (Accessories)

Beam Type	symmetric, medium beam [M]
Light Source	LED-12/48W - RGBW
CRI	20
Gear Type	electronic gear

Nominal Luminous Flux (lm)

LED Lumens	340 lm
LEDs	12
Total Lumens	4080 lm
Tj	85 °C

Delivered Lumens Flux (lm)

LED Lumens	267.1 lm
Total Lumens	3204.9 lm
Ta	25 °C

Rated Input Power	50 W

WE-EF LIGHTING USA LLC
410-D Keystone Drive | Warrendale PA 15086 | U.S.A. | Tel +1 724 742 0330 | Fax +1 724 742 0335 | info.usa@we-ef.com | www.we-ef.com | 04-03-2021 16:10

STICK-CW4

NICOLAUDIE ARCHITECTURAL

Smart Touch Sensitive Intelligent Control Keypad



Overview

This DMX controller is aimed at architectural lighting installations requiring an advanced level of programming (color changing effects, specific colors etc). The controller provides a clean and user-friendly panel. Featuring an on/off button, 6 scene buttons and a color wheel, the controller is ideal for hotels, homes and public environments. With 1024 DMX channels, Wi-Fi for remote network control and scene calendar triggers, the CW4 model features many advanced features. USB programmable from a PC or Mac, up to 36 scenes can be stored within the controller and directly recalled via 6 touch sensitive buttons.

www.nicolaudie.com/stick-cw4.htm

Key Features

- DMX stand alone controller
- Compatible with any DMX fixture or DMX LED driver
- Ready-to-use (pre-loaded with 8 scenes and 170 RGB fixtures)
- Sleek, black glass design which sits 11mm from the wall
- Color palette (can also be used for scene selection)
- 12 touch-sensitive buttons. No mechanical parts
- Touch-sensitive wheel allows for accurate color selection
- Built-in flash memory for storing programs
- Up to 36 dynamic or static scenes
- 1024 DMX channels. Control 340 RGB fixtures
- Clock and calendar with Sunrise/Sunset triggering
- Wi-Fi network communication. Control lighting remotely
- USB connectivity for programming and control
- 8 dry contact trigger ports
- OEM customization of the color palette and logo
- Windows/Mac software to set dynamic colors/effects

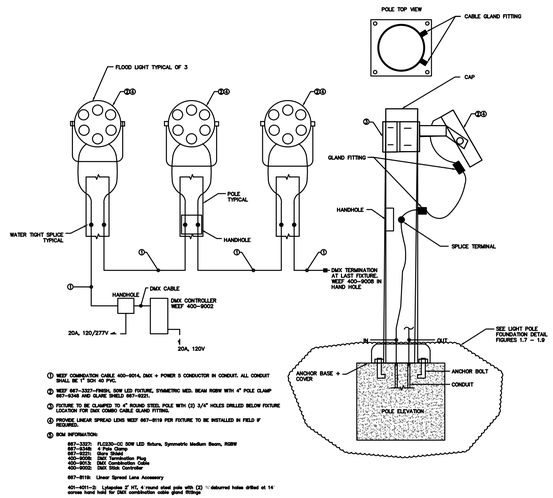
Technical Data

Input Power	5-15V DC 0.6A
Output Protocol	DMX512 (x2)
Programmability	PC, Mac
Available Colors	Black
Connections	USB, 8 dry contact ports, open drain ouput (for relay)
Memory	In-built flash
Temperature Battery	-10 °C - 45 °C LIR1220
Mounting	Single or double-gang wall socket
Dimentions	146x106x11mm
Weight	200g
Standards	EC, EMC, ROHS

Optional Accessories

RJ2BLOCK	RJ45 to connector block converter for POWER+DMX socket
POWER4M	5-10v ACDC power supply

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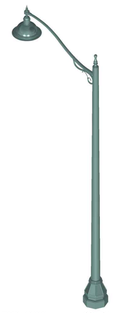


CENTRAL ISLAND LIGHTING AND CONTROLS
FLOOD LIGHT CONTROLS

N.T.S.

CENTRAL ISLAND LIGHTING AND CONTROLS
FLOOD LIGHT FIXTURE

N.T.S.



SternbergLighting
ESTABLISHED 1923 / EMPLOYEE OWNED
555 Lawrence Avenue | Roselle, IL 60172 | p 847.588.3400 | www.sternberglighting.com
CONCEPTUAL ASSEMBLY DRAWING, SUBJECT TO ENGINEERING VERIFICATION BY THE FACTORY

Catalog Number: 1A-1531LED-Z-24L40T3-MDL014-FG+HSHS / CAP 8 / 950SSRTS / RPBP / STD

NUMBER OF ARMS: 1A-
Number of Arms: One Arm (1A)

ARM ROADWAY FIXTURE: 1531LED
The 1531LED Omega is a large scale, decorative downlight fixture with a spun aluminum bell styled dome. The dome is available with two types of shades: round edge or flare edge styles. The luminaire measures 31" outside diameter and 21-1/2" overall height. Optional features include a hinged door for tool-less driver and LED access. The luminaire is UL listed in US and Canada.
Shade Style & Mounting: Flared (F)

LIGHT SOURCE: -24L40T3-MDL014-FG
Array: 24 LEDS, 90W for MD_014, 120 W for MD_018 (24L)
Color Temp: 4000K (40)
Distribution: Type 3 (T3)
Driver: Multi-Volt Dimmable Low-Range Driver,120-277V, 140mA (MDL014)
Lens: Flat Glass (FG)

ROADWAY OPTIONS: -HSHS
Hanpolelight: Horizontal HS Spike Finial (HSHS)

ARM: CAP 8

POLE: /950SSRTS/RPBP/
The 950155 Champaign features a large octagonal lower section with recessed panels terminating with three octagonal rings. It is constructed of heavy wall, 356 alloy cast aluminum. Throat size is 8" by 10".
Model: 950155 Champaign (955)
Height: 25 Ft (25)
Shaft Material: Steel (S)
Shaft Type: Round Tapered Smooth (RTS)
Finial: Tall Decorative Post Finial, Tapered Shaft (RPBP)

FINISH: STD
Assembly shall be powder coated to a yet to be determined standard finish. This option may be used for quoting purposes when a final decision on the finish specification is pending.

Arms and Accessory	Orientation
CAP 8	180

180°
90° 270°
See Spec Sheet For Bolt Circle Information
0°

See Specification Sheet

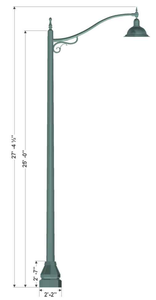
Access Door Orientation: 0°
Street Side Orientation: 180°

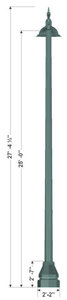
Job Name: Customer Signature: Drawing #306216
Job Location: Date: 2020/10/27 1 of 2



SternbergLighting
ESTABLISHED 1923 / EMPLOYEE OWNED
555 Lawrence Avenue | Roselle, IL 60172 | p 847.588.3400 | www.sternberglighting.com
CONCEPTUAL ASSEMBLY DRAWING, SUBJECT TO ENGINEERING VERIFICATION BY THE FACTORY

Catalog Number: 1A-1531LED-Z-24L40T3-MDL014-FG+HSHS / CAP 8 / 950SSRTS / RPBP / STD





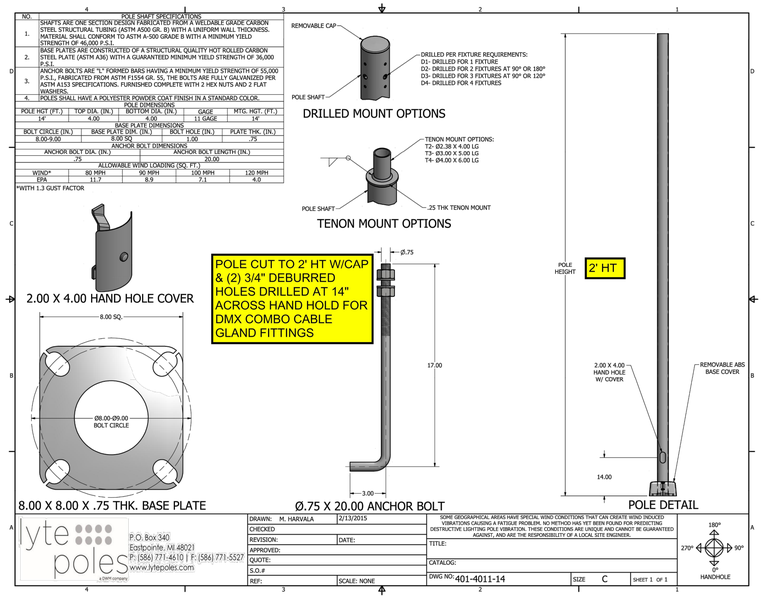
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Job Location: Date: 2020/10/27 2 of 2

DECORATIVE LIGHT POLE AND LIGHT FIXTURE

N.T.S.

CENTRAL ISLAND LIGHTING AND CONTROLS
INTELLIGENT CONTROL KEYPAD

N.T.S.



CENTRAL ISLAND LIGHTING AND CONTROLS
2 FOOT POLE

N.T.S.

lyte poles
P.O. Box 340
Eastpointe, MI 48021
P: (586) 771-4610 | F: (586) 771-5527
www.lytepoles.com

DRAWN: M. HARVALA 2/13/2015
CHECKED
REVISION: DATE:
APPROVED:
QUOTE:
S.O.#
REF: SCALE: NONE
CATALOG:
DWG NO: 401-4011-14 SIZE C SHEET 1 OF 1

SOME GEOGRAPHICAL AREAS HAVE SPECIAL WIND CONDITIONS THAT CAN CREATE WIND INDUCED VIBRATIONS CAUSING A FATIGUE PROBLEM. NO METHOD HAS YET BEEN FOUND FOR PREDICTING DESTRUCTIVE LIGHTING POLE VIBRATION. THESE CONDITIONS ARE UNIQUE AND CANNOT BE GUARANTEED AGAINST, AND ARE THE RESPONSIBILITY OF A LOCAL SITE ENGINEER.

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LAYER STATE:
MS VIEW:

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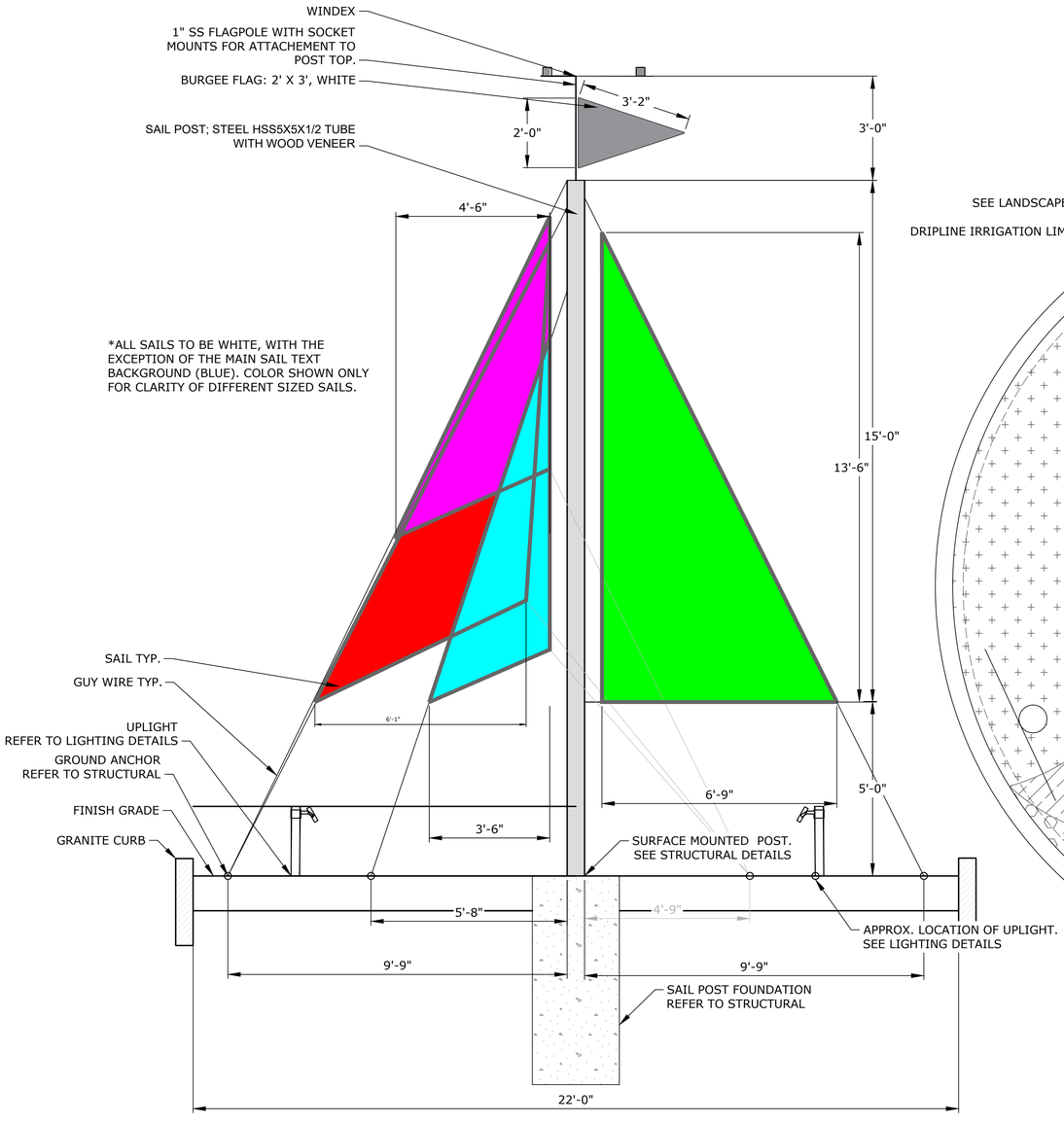
MISCELLANEOUS DETAILS

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

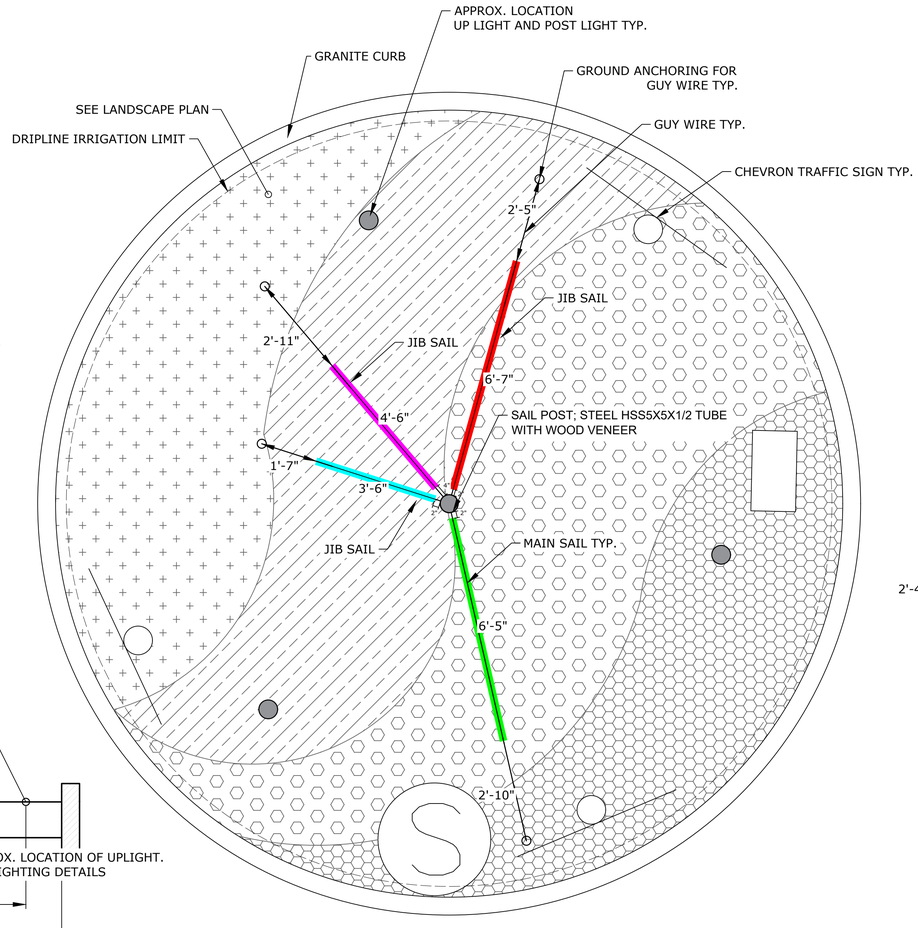
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

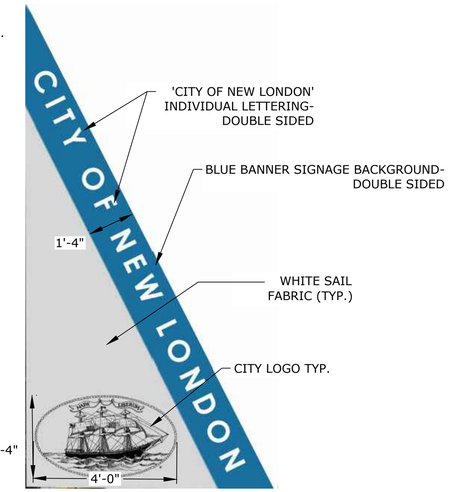
MDS-09



SECTION



PLAN



DOUBLE SIDED BLUE BANNER SIGNAGE NOTES:

BLUE BACKGROUND MATERIAL: UV COATED SUNBRELLA MATERIAL DOUBLE SIDED AND SEWED ONTO SAIL FABRIC.
BLUE BACKGROUND COLOR: BLUE. CONTRACTOR TO PROVIDE 3" WIDE BLUE SWATCH SAMPLES OF SUNBRELLA MATERIAL TO LANDSCAPE ARCHITECT FOR PRIOR APPROVAL.
BLUE BACKGROUND WIDTH: 1' 4" WIDTH-DOUBLE SIDED PANEL.

DOUBLE SIDED INDIVIDUAL LETTERING:

LETTER MATERIAL: INDIVIDUAL CUT LETTERS FROM SUNBRELLA MATERIAL AND SEWED DIRECTLY ONTO BLUE BACKGROUND. LETTERING TO BE DOUBLE SIDED.
LETTER COLOR: WHITE
LETTER WIDTH X HEIGHT: APPROX. 7" X 7"
LETTER FONT: CENTURY GOTHIC BOLD OR APPROVED EQUAL

DOUBLE SIDED CITY LOGO:

LOGO TO BE SILKSCREEN ONTO SAIL FABRIC. VECTOR BASED GRAPHIC OF CITY LOGO TO BE PROVIDED TO CONTRACTOR.

MAIN SAIL LAYOUT

SAIL ELEVATION DETAILS

N.T.S.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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SEAL

*DRAFT

SCALE:
HORZ.: N.T.S.
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MISCELLANEOUS DETAILS

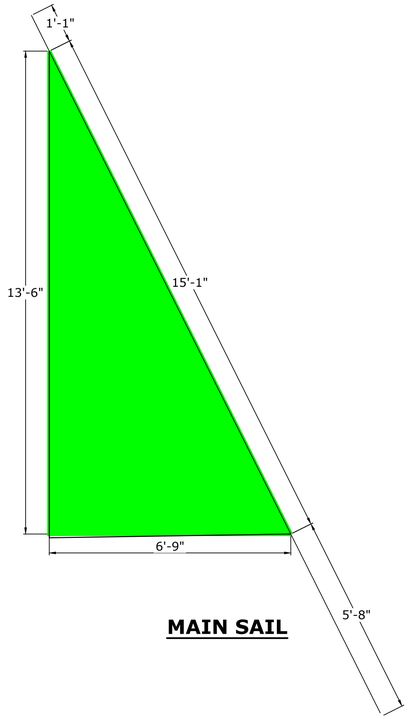
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

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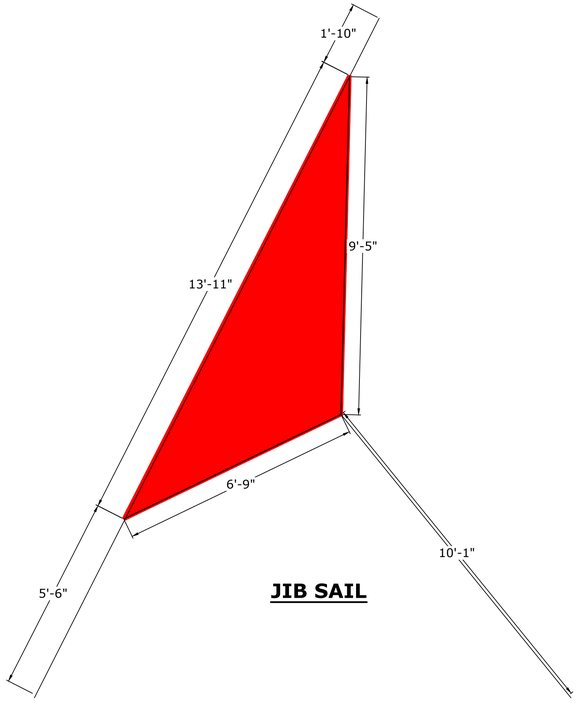
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MDS-10

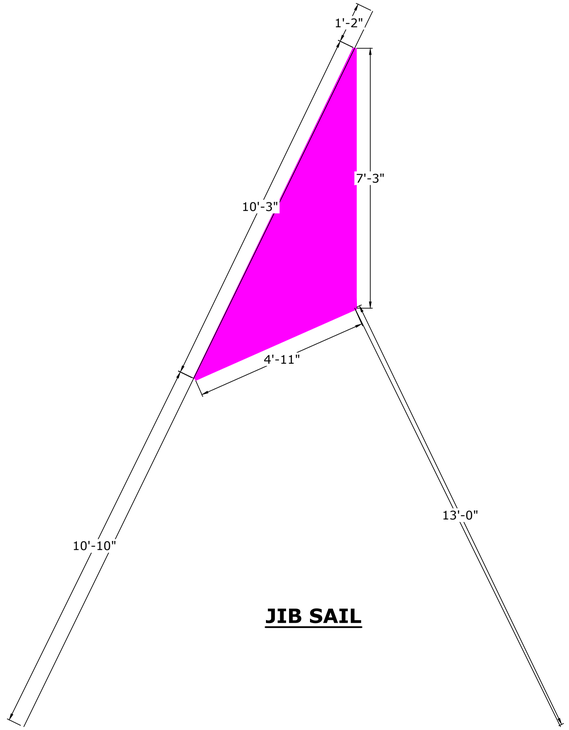
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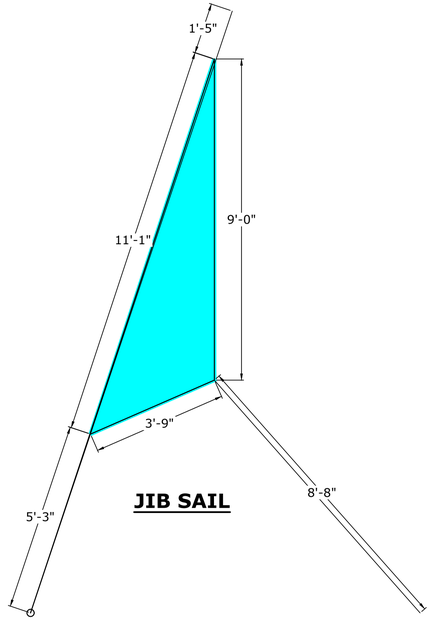
MAIN SAIL



JIB SAIL



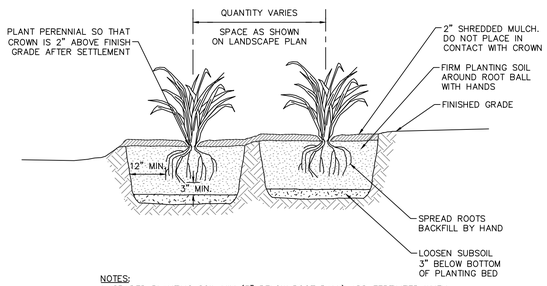
JIB SAIL



JIB SAIL

SAIL ELEVATION DETAILS

N.T.S.



NOTES:
1. SPADED PLANTING SOIL MIX (3" BELOW ROOT BALL) ADD FERTILIZER WHEN MIXING. DO NOT COMPACT AFTER PLANTING.
2. WATER THOROUGHLY AFTER PLANTING.
3. PROVIDE WELL DRAINING SUBSOIL WHEN SOIL IS HEAVY OR COMPACTED.
4. FOR CONTAINER GROWN PLANTS, 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.

ORNAMENTAL GRASS PLANTING

N.T.S.



WINDEX AT SAIL POST

N.T.S.
SIZE: 15 INCH



STAINLESS STEEL FLAGPOLE

N.T.S.
SIZE: 1" DIA 3 FOOT HEIGHT
TAYLOR MADE OR APPROVED EQUAL.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: N.T.S.
VERT.:
DATUM:
HORZ.:
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MISCELLANEOUS DETAILS

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MDS-11

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LAYER STATE:
MS VIEW:

CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL CONFORM TO ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 AND BE DETAILED IN ACCORDANCE WITH ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
3. REBARS SHALL HAVE A MINIMUM CONCRETE COVER AS FOLLOWS:
   CONCRETE DEPOSITED AGAINST GROUND.....3 IN.
   CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
   FOR BARS #5 AND LARGER.....2 IN.
   FOR BARS SMALLER THAN #5.....1½ IN.
   CONCRETE NOT EXPOSED TO THE WEATHER OR THE GROUND:
   SLABS AND WALLS.....¾ IN.
4. ALL REINFORCING BARS SHALL BE CONTINUOUS AND LAPPED A MINIMUM OF 48 BAR DIAMETERS AT ALL SPLICES, CORNERS, AND INTERSECTIONS UNLESS NOTED OTHERWISE.
5. ALL REINFORCEMENT SHALL BE SECURELY TIED IN ITS PROPOSED LOCATION PRIOR TO AND DURING PLACEMENT OF CONCRETE USING APPROVED CHAIRS, SPACERS AND TIE WIRE AS REQUIRED. NO BARS SHALL BE CUT OR OMITTED IN THE FIELD WITHOUT THE APPROVAL OF THE ENGINEER.
6. CONCRETE PROTECTION FOR REINFORCEMENT SHALL IN ALL CASES BE AT LEAST EQUAL TO THE DIAMETER OF THE BAR EXCEPT FOR CONCRETE SLABS.
7. CONCRETE FOR FOOTINGS SHALL BE NORMAL WEIGHT CONCRETE AND SHALL DEVELOP A COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS, UNLESS OTHERWISE NOTED. CONCRETE SHALL HAVE A MAXIMUM AGGREGATE SIZE OF ¾ INCH, A MINIMUM CEMENT CONTENT OF 560 LBS/CU YD., AND A MAXIMUM SLUMP OF 4 INCHES.
8. ALL FOOTINGS AND PIERS SHALL BE CENTERED BELOW THE MEMBERS WHICH THEY SUPPORT UNLESS SHOWN OTHERWISE.
9. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A ¾ INCH CHAMFER UNLESS NOTED OTHERWISE.
10. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR–ENTRAINED.
11. SIZES AND LOCATIONS OF ALL REQUIRED EMBEDDED ITEMS FOR ALL TRADES SUCH AS ANCHOR BOLTS, PIPING SLEEVES, HOLDOWN ANCHORS, ETC., SHALL BE COORDINATED BY THE CONTRACTOR WITH OTHER TRADES.

TIMBER NOTES:

1. THE STRUCTURAL COMPONENTS HAVE BEEN DESIGNED WITH THE FOLLOWING UNFACTORED DESIGN VALUES:

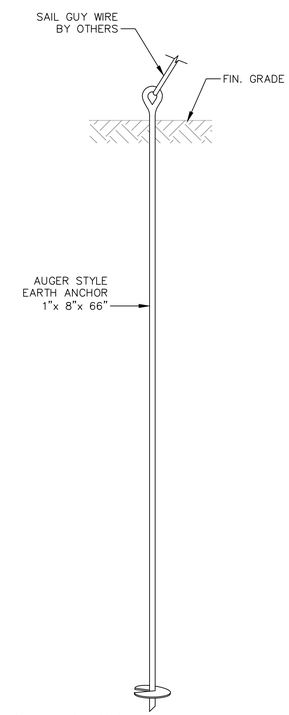
   SPECIES & GRADE: SOUTHERN PINE; SPIB, NO. 2

   SIZE CLASS; 2"–4" THICK, 10" WIDE:
   BENDING STRESS F_b = 1050 PSI
   COMPRESSION (PARALLEL) F_c = 1050 PSI
   SHEAR (PARALLEL) F_v = 175 PSI
   MODULUS OF ELASTICITY E = 1,600,000 PSI
2. MATERIALS SHALL BE STORED UNDER COVER AND PROTECTED FROM WEATHER AND CONTACT WITH WET SURFACES. LUMBER SHALL BE STACKED WITH SPACERS BETWEEN EACH BUNDLE TO PROVIDE AIR CIRCULATION.
3. DIMENSION LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19%.
4. EXPOSED LUMBER SHALL NOT CONTAIN DECAY, HONEYCOMB, KNOT HOLES, SHAKE, SPLITS, TORN GRAIN, WANE, ETC. THAT WOULD IMPAIR FINISHED APPEARANCE ON EXPOSED SURFACES AND EDGES.
5. ALL EXTERIOR ROUGH CARPENTRY SHALL BE TREATED UNLESS OTHERWISE INDICATED. SOUTHERN YELLOW PINE WOOD CLADDING TO BE TREATED WITH PENOFIN ULTRA–PREMIUM RED LABEL PENETRATING OIL FINISH OR APPROVED EQUAL. STAIN COLOR TO BE: TRANSPARENT CEDAR. INSTALL PER MANUFACTURES RECOMMENDATIONS. PENOFIN PENETRATING OIL FINISHES AND WOOD STAIN, UKIAH, CA 95482 WWW.PENOFIN.COM PHONE: 1–800–736–6346.
6. ALL FASTENERS USED WITH PRESSURE–PRESERVATIVE–TREATED WOOD SHALL BE STAINLESS–STEEL FASTENERS.
7. EXTERIOR ROUGH CARPENTRY SHALL BE ATTACHED SECURELY BY ANCHORING AND FASTENING COMMON WIRE NAILS UNLESS OTHERWISE INDICATED. FASTENERS SHALL NOT SPLIT WOOD AND SHALL NOT PENETRATE MEMBERS WHERE OPPOSITE SIDE WILL BE EXPOSED. CONNECTIONS SHALL BE TIGHT BETWEEN MEMBERS. NAIL HEADS SHALL NOT BE COUNTERSUNK UNLESS OTHERWISE INDICATED.
8. FOR EXPOSED WORK, FASTENERS SHALL BE ARRANGED IN STRAIGHT ROWS PARALLEL WITH EDGES OF MEMBERS, EVENLY SPACED, AND WITH ADJACENT ROWS STAGGERED.

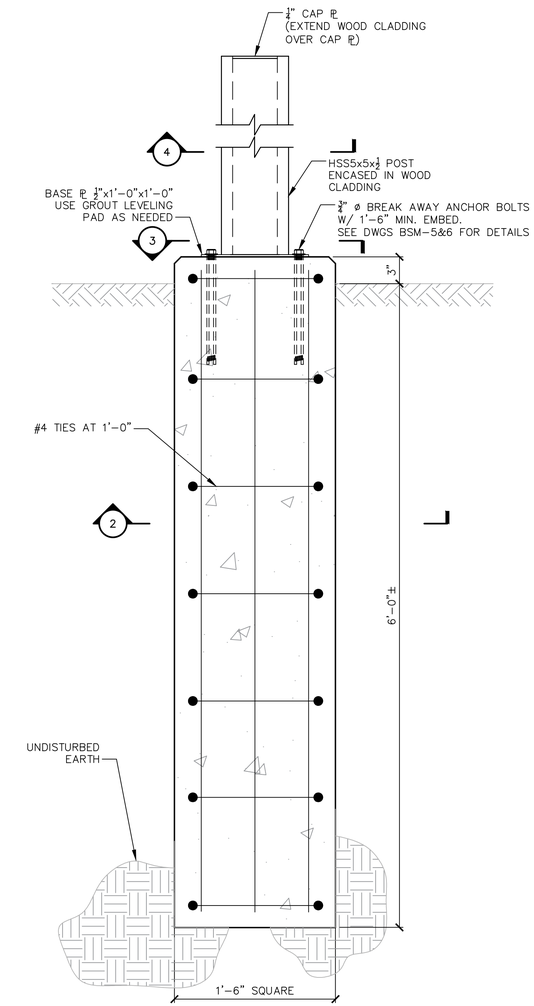
STRUCTURAL STEEL NOTES:

1. ALL STRUCTURAL STEEL SHALL BE NEW, CLEAN, AND STRAIGHT AND SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE A.I.S.C. CODE OF STANDARD PRACTICE (ADOPTED MARCH 2011), EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.
2. STRUCTURAL STEEL FABRICATION AND ERECTION SHALL COMPLY WITH THE BUILDING CODE, THE SPECIFICATION, AND THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (ADOPTED JUNE 22, 2010)" OF AISC.
3. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY. D1.1–2004 STRUCTURAL WELDING CODE–STEEL.
4. ALL FILLET WELDING SHALL BE A MINIMUM OF 3/16 INCH WELD UNLESS NOTED OTHERWISE ON DRAWINGS. SEE THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
5. ALL FIELD CONNECTIONS SHALL BE BOLTED EXCEPT WHERE WELDING IS SPECIFIED ON THE PLANS. BOLTS SHALL BE ¾ INCH DIAMETER MINIMUM. BOLT HOLES FOR STEEL ANCHORED TO CONCRETE, UTILIZING CAST–IN–PLACE ANCHORS, SHALL BE BOLT DIAMETER PLUS 5/16 INCH. CONNECTIONS NOT SPECIFICALLY DETAILED ON THE PLANS SHALL BE DESIGNED FOR THE LOADS INDICATED ON THE DRAWINGS OR THOSE STATED IN THE AISC UNIFORM LOAD TABLES, WHICHEVER IS GREATER.
6. PROVIDE HOLES, COPES, ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR WORK OF OTHER TRADES. THEY SHALL BE SHOWN ON STRUCTURAL SHOP DRAWINGS AND SHALL BE MADE IN THE SHOP. FIELD BURNING OF HOLES OR CUTS IN STRUCTURAL STEEL MEMBERS WILL NOT BE PERMITTED EXCEPT WITH THE SPECIFIC WRITTEN APPROVAL OF THE ENGINEER.
7. ALL EXTERIOR STRUCTURAL STEEL SHALL BE HOT–DIPPED GALVANIZED.

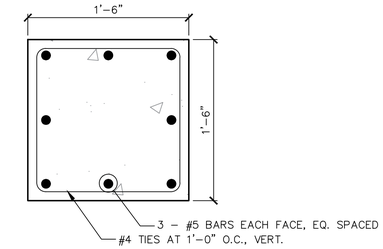
NOTE: GUY WIRE ANCHOR SHALL HAVE A MIN. ALLOWABLE TENSILE LOAD CAPACITY OF 10,000 LBS.



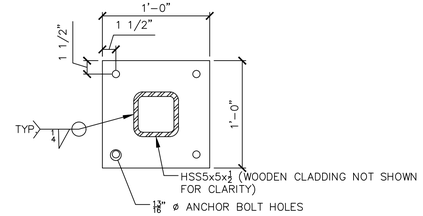
GUY WIRE ANCHOR
1–1/2" = 1'–0"



1 SAIL POLE FOUNDATION SECTION
1–1/2" = 1'–0"

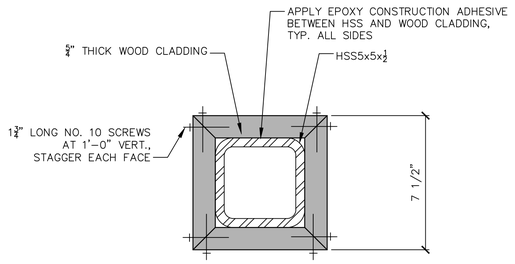


2 TYPICAL SECTION
1–1/2" = 1'–0"



3 BASE PLATE DETAIL
1–1/2" = 1'–0"

NOTE: PROVIDE (1) – ¾" ø WEEP HOLE W/ SCREEN AT BASE. EXTEND WEEP HOLE THROUGH WOOD CLADDING.



4 SAIL POLE SECTION
3" = 1'–0"

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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MISCELLANEOUS DETAILS

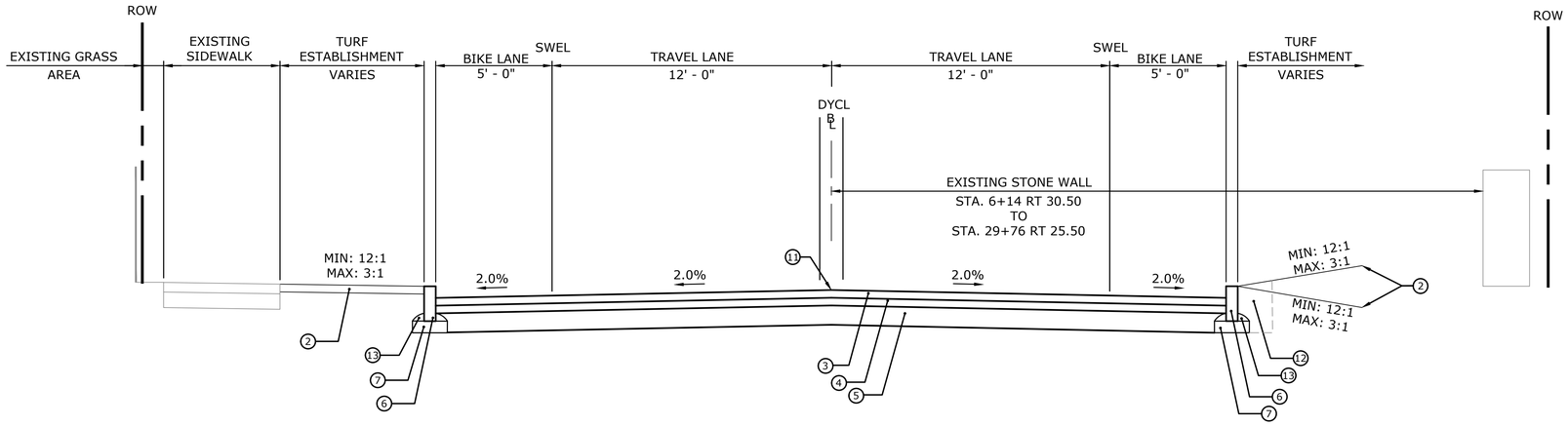
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

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PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

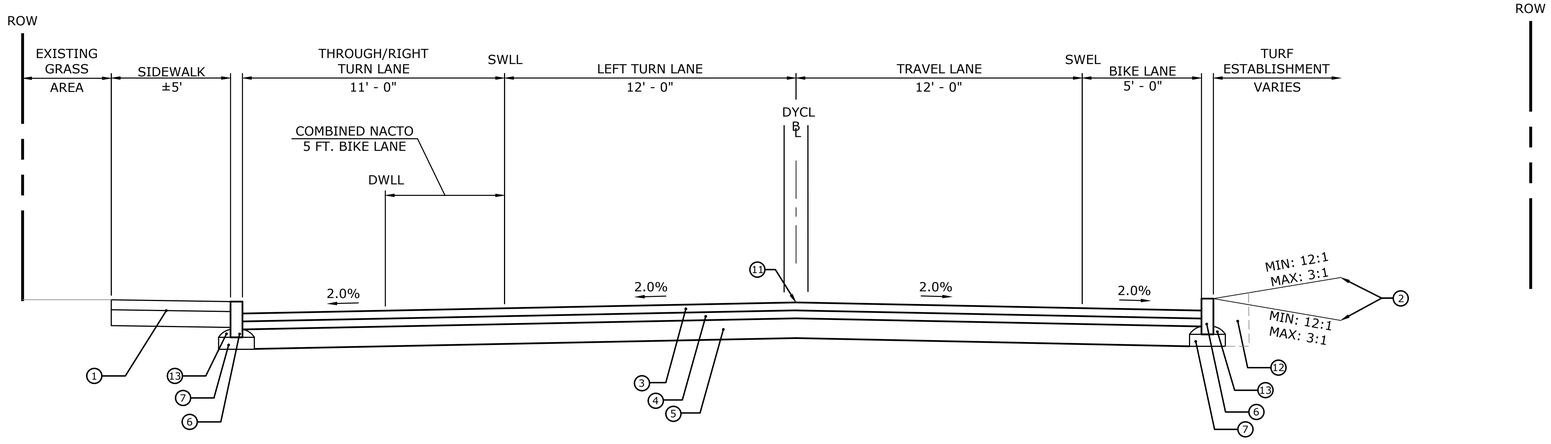
MDS-12

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Plotter: DWG TO PDF.PC3 CTB File: F&O STANDARD.CTB
LAYER STATE:
MS VIEW:



JEFFERSON AVENUE
STA. 6+00 TO STA. 25+00
STA 28+90 TO STA. 29+75

***SUPER-ELEVATION BETWEEN STATIONS PROVIDED**
SEE CROSS SECTIONS



JEFFERSON AVENUE
STA. 5+00 TO STA. 5+50

LEGEND:

1. CONCRETE SIDEWALK
2. TOPSOIL & TURF ESTABLISHMENT
3. 2" HMA S0.5 TRAFFIC LEVEL 3 (PLACED IN SINGLE LIFT)
4. 4" HMA S1.0 TRAFFIC LEVEL 3 (PLACED IN SINGLE LIFT)
5. 12" SUBBASE
6. 5" GRANITE STONE CURBING (SEE NOTE A)
7. BASE MATERIAL
8. 6" MOUNTABLE GRANITE STONE CURBING WITH 2" REVEAL
9. 6" GRANITE STONE CURBING WITH 6" REVEAL
10. 2" MILL AND OVERLAY (S0.5)
11. POINT OF APPLICATION OF GRADE
12. BACKFILL (SEE NOTE B)
13. MOUND OF CONCRETE AT JOINTS
14. TACK COAT

SWEL = SOLID WHITE EDGE LINE

SWLL = SOLID WHITE LANE LINE

DYCL = DOUBLE YELLOW CENTER LINE

YCL = YELLOW CENTER LINE

DWLL = DASHED WHITE LANE LINE

TYPICAL SECTION NOTES:

A. SEE ALN & HPN PLANS FOR CURBING INSTALLATION TYPE.

B. CONTRACTOR TO REMOVE PAVEMENT STRUCTURE TO SUBGRADE AND BACKFILL WHERE NARROWING OF ROADWAY IS PURPOSED.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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TYPICAL CROSS SECTION PLAN

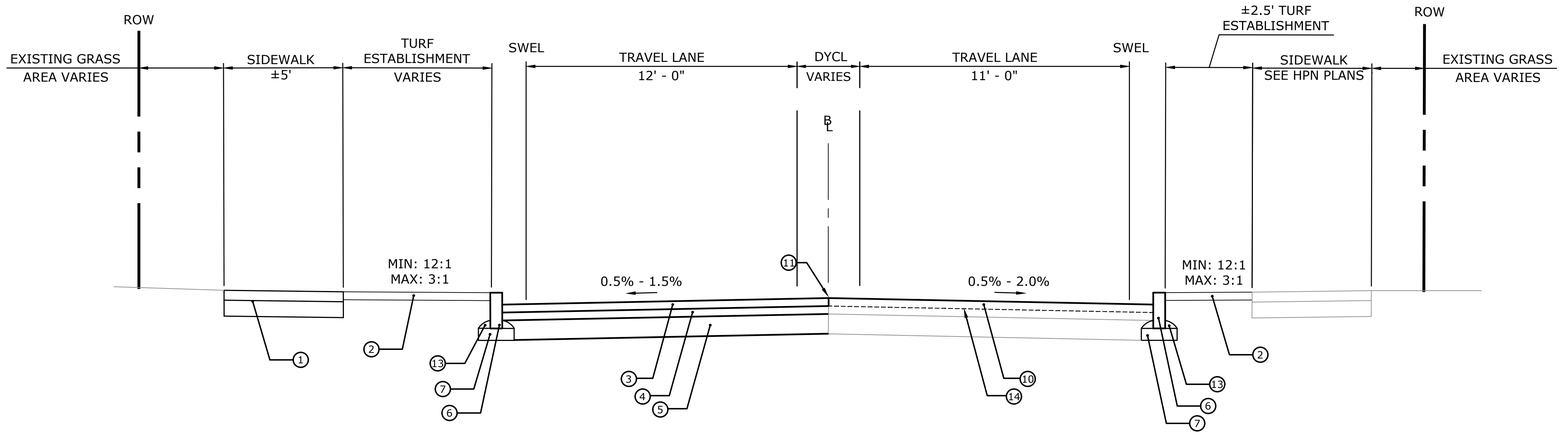
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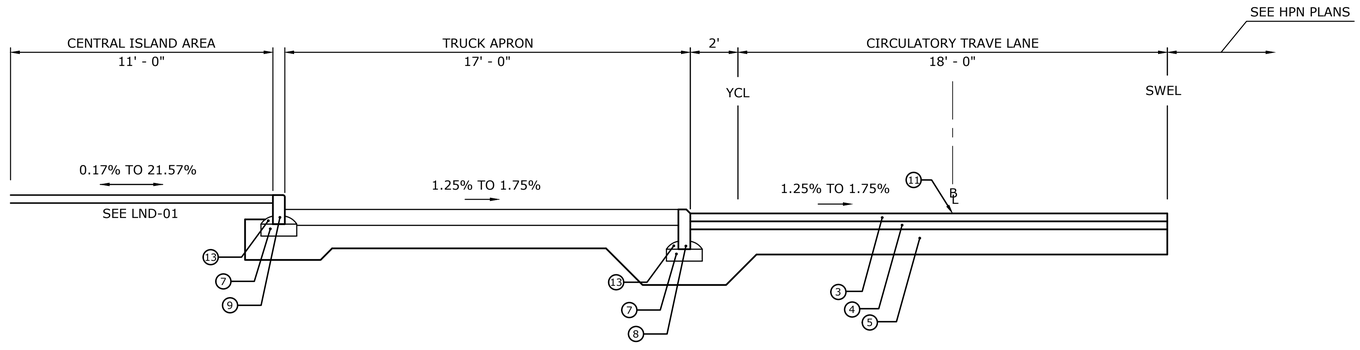
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

TXS-01

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:



CHESTER STREET
STA.40+05 TO STA. 41+00



ROUNDABOUT
STA. 0+00 TO STA. 2+48

LEGEND:

1. CONCRETE SIDEWALK
2. TOPSOIL & TURF ESTABLISHMENT
3. 2" HMA S0.5 TRAFFIC LEVEL 3 (PLACED IN SINGLE LIFT)
4. 4" HMA S1.0 TRAFFIC LEVEL 3 (PLACED IN SINGLE LIFT)
5. 12" SUBBASE
6. 5" GRANITE STONE CURBING (SEE NOTE A)
7. BASE MATERIAL
8. 6" MOUNTABLE GRANITE STONE CURBING WITH 2" REVEAL
9. 6" GRANITE STONE CURBING WITH 6" REVEAL
10. 2" MILL AND OVERLAY (S0.5)
11. POINT OF APPLICATION OF GRADE
12. BACKFILL (SEE NOTE B)
13. MOUND OF CONCRETE AT JOINTS
14. TACK COAT

SWEL = SOLID WHITE EDGE LINE

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TYPICAL SECTION NOTES:

A. SEE ALN & HPN PLANS FOR CURBING INSTALLATION TYPE.

B. CONTRACTOR TO REMOVE PAVEMENT STRUCTURE TO SUBGRADE AND BACKFILL WHERE NARROWING OF ROADWAY IS PURPOSED.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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TYPICAL CROSS SECTION PLAN

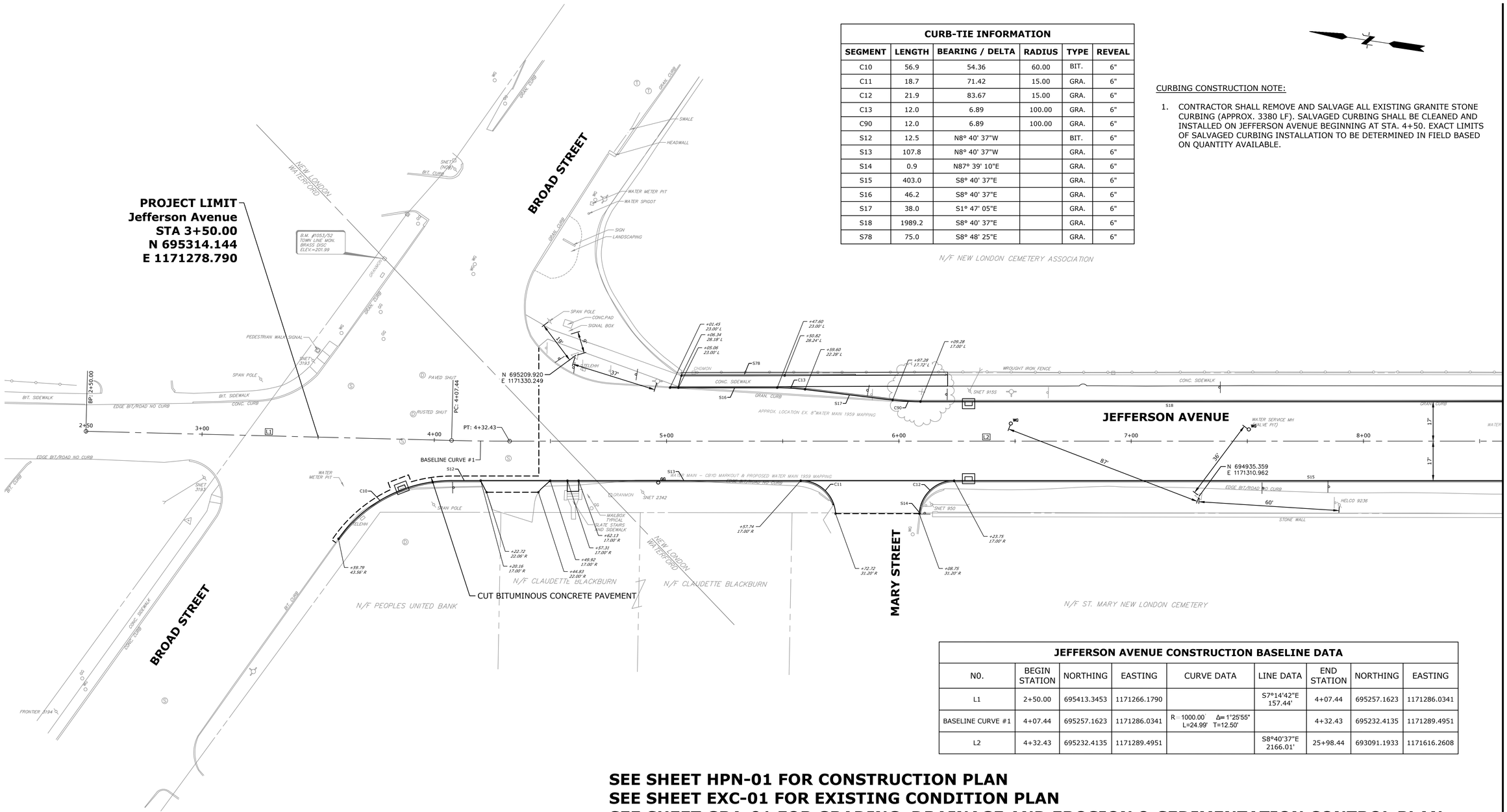
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PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

TXS-02

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MS VIEW: LAYER STATE:
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB



CURB-TIE INFORMATION					
SEGMENT	LENGTH	BEARING / DELTA	RADIUS	TYPE	REVEAL
C10	56.9	54.36	60.00	BIT.	6"
C11	18.7	71.42	15.00	GRA.	6"
C12	21.9	83.67	15.00	GRA.	6"
C13	12.0	6.89	100.00	GRA.	6"
C90	12.0	6.89	100.00	GRA.	6"
S12	12.5	N8° 40' 37"W		BIT.	6"
S13	107.8	N8° 40' 37"W		GRA.	6"
S14	0.9	N87° 39' 10"E		GRA.	6"
S15	403.0	S8° 40' 37"E		GRA.	6"
S16	46.2	S8° 40' 37"E		GRA.	6"
S17	38.0	S1° 47' 05"E		GRA.	6"
S18	1989.2	S8° 40' 37"E		GRA.	6"
S78	75.0	S8° 48' 25"E		GRA.	6"

CURBING CONSTRUCTION NOTE:

1. CONTRACTOR SHALL REMOVE AND SALVAGE ALL EXISTING GRANITE STONE CURBING (APPROX. 3380 LF). SALVAGED CURBING SHALL BE CLEANED AND INSTALLED ON JEFFERSON AVENUE BEGINNING AT STA. 4+50. EXACT LIMITS OF SALVAGED CURBING INSTALLATION TO BE DETERMINED IN FIELD BASED ON QUANTITY AVAILABLE.

JEFFERSON AVENUE CONSTRUCTION BASELINE DATA								
NO.	BEGIN STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	END STATION	NORTHING	EASTING
L1	2+50.00	695413.3453	1171266.1790		S7°14'42"E 157.44'	4+07.44	695257.1623	1171286.0341
BASELINE CURVE #1	4+07.44	695257.1623	1171286.0341	R=1000.00' Δ=1°25'55" L=24.99' T=12.50'		4+32.43	695232.4135	1171289.4951
L2	4+32.43	695232.4135	1171289.4951		S8°40'37"E 2166.01'	25+98.44	693091.1933	1171616.2608

SEE SHEET HPN-01 FOR CONSTRUCTION PLAN
SEE SHEET EXC-01 FOR EXISTING CONDITION PLAN
SEE SHEET GRA-01 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-01 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-01 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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ALIGNMENT & CURB TIE PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

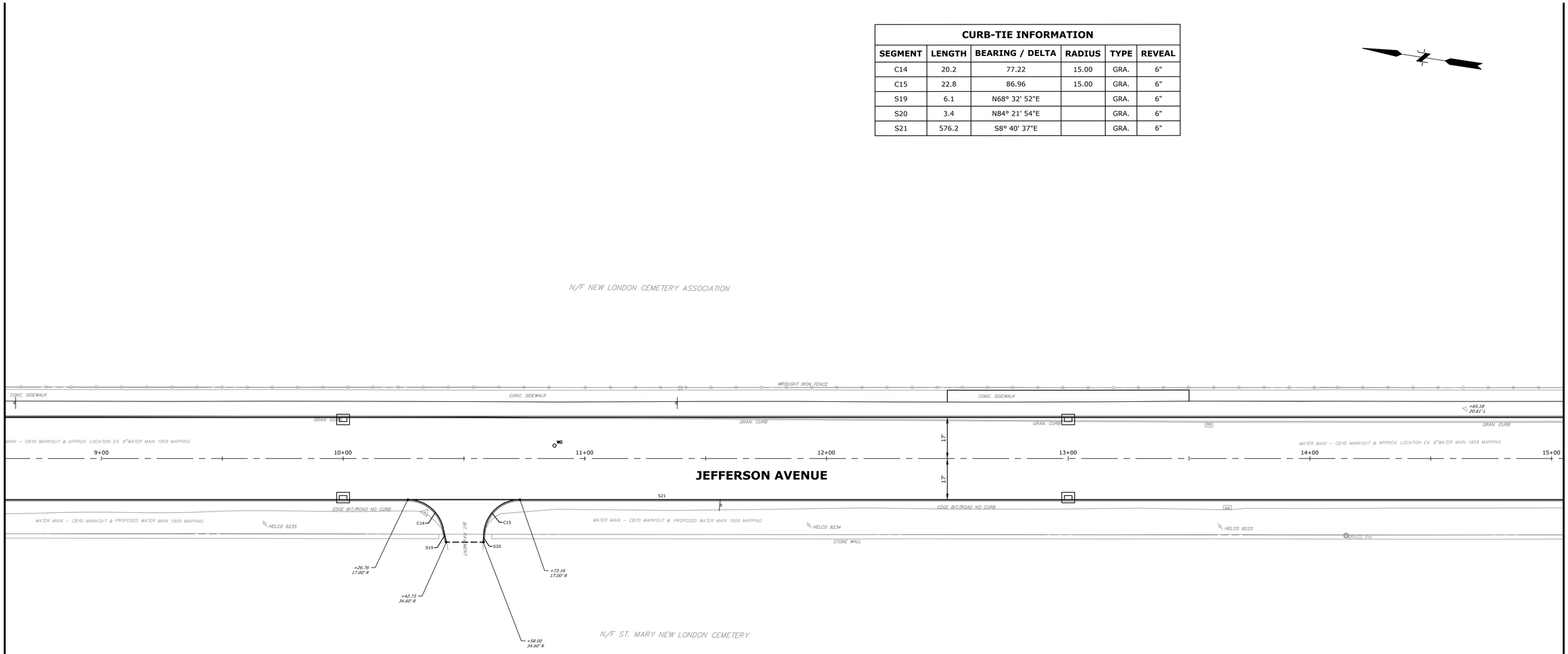
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

ALN-01

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

CURB-TIE INFORMATION					
SEGMENT	LENGTH	BEARING / DELTA	RADIUS	TYPE	REVEAL
C14	20.2	77.22	15.00	GRA.	6"
C15	22.8	86.96	15.00	GRA.	6"
S19	6.1	N68° 32' 52"E		GRA.	6"
S20	3.4	N84° 21' 54"E		GRA.	6"
S21	576.2	S8° 40' 37"E		GRA.	6"



SEE SHEET HPN-02 FOR CONSTRUCTION PLAN
SEE SHEET EXC-02 FOR EXISTING CONDITION PLAN
SEE SHEET GRA-02 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-02 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-02 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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ALIGNMENT & CURB TIE PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

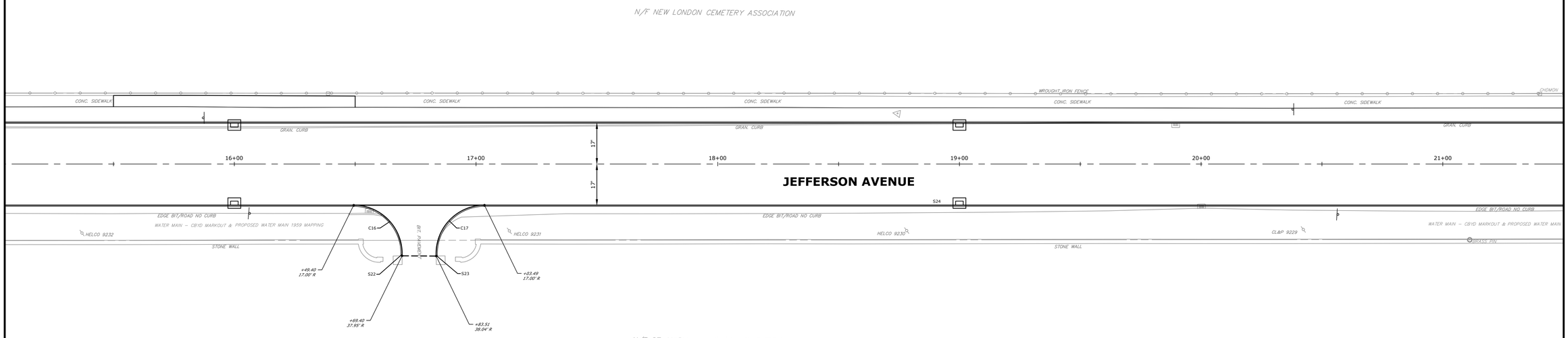
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PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

ALN-02

File Path: J:\DWG\P2017\0353\A20\Civil\Plan\20170353A20_ALN01.dwg Layout: ALN-02 Plotted: Tue, January 25, 2022 - 3:07 PM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

CURB-TIE INFORMATION					
SEGMENT	LENGTH	BEARING / DELTA	RADIUS	TYPE	REVEAL
C16	31.3	89.56	20.00	GRA.	6"
C17	31.9	91.33	20.00	GRA.	6"
S22	1.1	S80° 52' 43"W		GRA.	6"
S23	0.6	N79° 59' 28"E		GRA.	6"
S24	735.6	S8° 40' 37"E		GRA.	6"



SEE SHEET HPN-03 FOR CONSTRUCTION PLAN
SEE SHEET EXC-03 FOR EXISTING CONDITION PLAN
SEE SHEET GRA-03 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-03 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-03 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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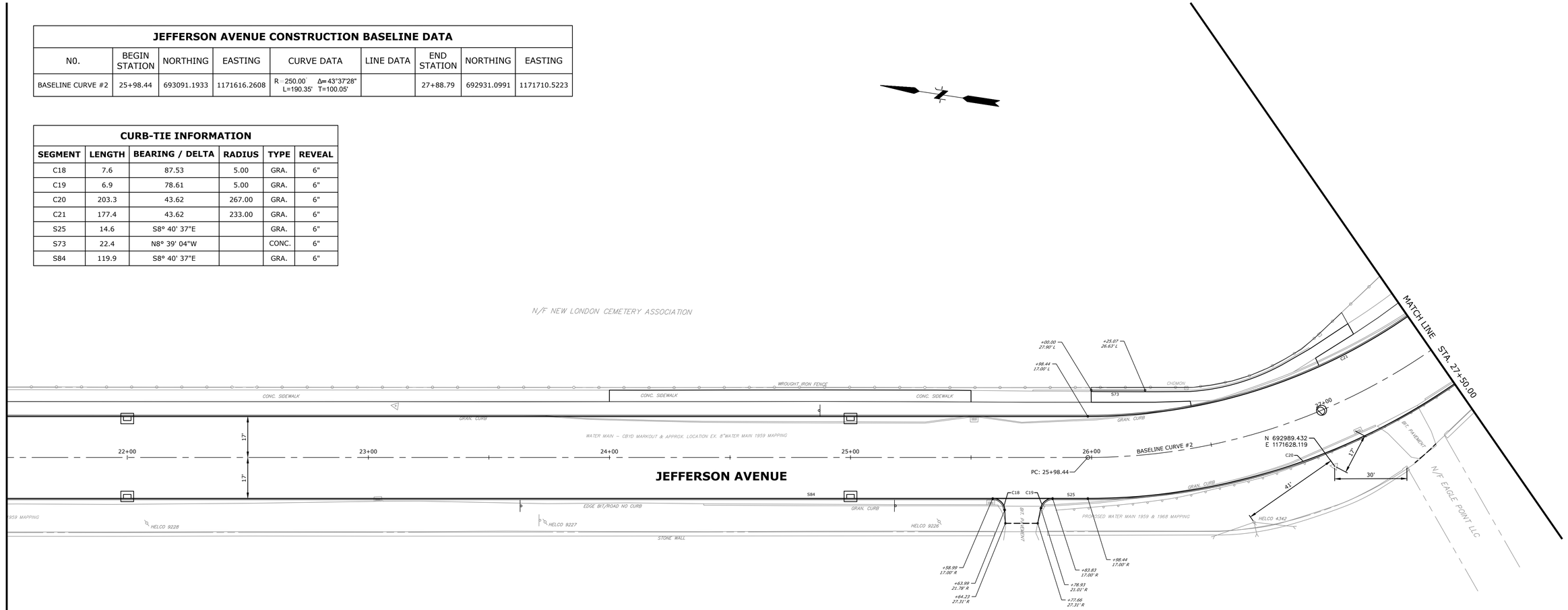
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

ALN-03

File Path: J:\DWG\P20170353\A20\Civil\Plan\20170353A20_ALN01.dwg Layout: ALN-03 Plotted: Tue, January 25, 2022 - 3:07 PM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
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MS VIEW:

JEFFERSON AVENUE CONSTRUCTION BASELINE DATA								
N0.	BEGIN STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	END STATION	NORTHING	EASTING
BASELINE CURVE #2	25+98.44	693091.1933	1171616.2608	R = 250.00' Δ= 43°37'28" L=190.35' T=100.05'		27+88.79	692931.0991	1171710.5223

CURB-TIE INFORMATION					
SEGMENT	**LENGTH**	**BEARING / DELTA**	**RADIUS**	**TYPE**	**REVEAL**
C18	7.6	87.53	5.00	GRA.	6"
C19	6.9	78.61	5.00	GRA.	6"
C20	203.3	43.62	267.00	GRA.	6"
C21	177.4	43.62	233.00	GRA.	6"
S25	14.6	S8° 40' 37"E		GRA.	6"
S73	22.4	N8° 39' 04"W		CONC.	6"
S84	119.9	S8° 40' 37"E		GRA.	6"



SEE SHEET HPN-04 FOR CONSTRUCTION PLAN
SEE SHEET EXC-04 FOR EXISTING CONDITION PLAN
SEE SHEET GRA-04 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-04 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-04 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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ALIGNMENT & CURB TIE PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

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PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

ALN-04

File Path: J:\DWG\P20170353\A20\Civil\Plan\20170353A20_ALN01.dwg Layout: ALN-04 Plotted: Tue, January 25, 2022 - 3:07 PM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

JEFFERSON AVENUE CONSTRUCTION BASELINE DATA								
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L3	27+88.79	692931.0991	1171710.5223		S52°18'05"E 181.00'	29+69.79	692820.4163	1171853.7359
BASELINE CURVE #3	29+69.79	692820.4163	1171853.7359	R = 1250.00' Δ= 6°28'20" L=141.20' T=70.68'		31+10.99	692740.5579	1171970.0932
L4	31+10.99	692740.5579	1171970.0932		S58°46'25"E 89.01'	32+00.00	692694.4122	1172046.2094

JEFFERSON AVE. CONSTRUCTION BASELINE DATA								
N0.	BEGIN STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	END STATION	NORTHING	EASTING
L8	32+00.00	692694.4122	1172046.2094		N89°20'38"E 123.26'	33+23.26	692695.8236	1172169.4625
BASELINE CURVE #7	33+23.26	692695.8236	1172169.4625	R = 750.00' Δ= 4°22'11" L=57.20' T=28.61'		33+80.46	692694.2979	1172226.6282
L9	33+80.46	692694.2979	1172226.6282		S86°17'11"E 47.96'	34+28.42	692691.1918	1172274.4839

CHESTER STREET CONSTRUCTION BASELINE DATA								
N0.	BEGIN STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	END STATION	NORTHING	EASTING
BASELINE CURVE #5	40+34.03	692550.6299	1171965.1968	R = 500.00' Δ= 3°12'36" L=28.01' T=14.01'		40+62.04	692572.9612	1171982.1024
L7	40+62.04	692572.9612	1171982.1024		N35°31'19"E 15.99'	40+78.03	692585.9755	1171991.3929
BASELINE CURVE #6	40+78.03	692585.9755	1171991.3929	R = 400.00' Δ= 16°26'01" L=114.73' T=57.76'		41+92.76	692687.5706	1172043.8418

NOTES:

1. **SEE ALN-07 FOR CURB-TIE INFORMATION TABLES.**
2. **CURB REVEAL INFORMATION DOES NOT DEPICT EXACT CONDITIONS AT SPLITTER ISLANDS CROSSWALKS, SIDEWALK RAMPS, AND DRIVEWAYS. CONTRACTOR TO ENSURE PROPER CURBING INSTALLATION AT THESE LOCATIONS. SEE MDS-01 - MDS-03 FOR DETAILS.**

SEE SHEET HPN-05 FOR CONSTRUCTION PLAN
SEE SHEET EXC-05 FOR EXISTING CONDITION PLAN
SEE SHEET GRA-05 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-05 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-05 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

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SCALE:
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ALIGNMENT & CURB TIE PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

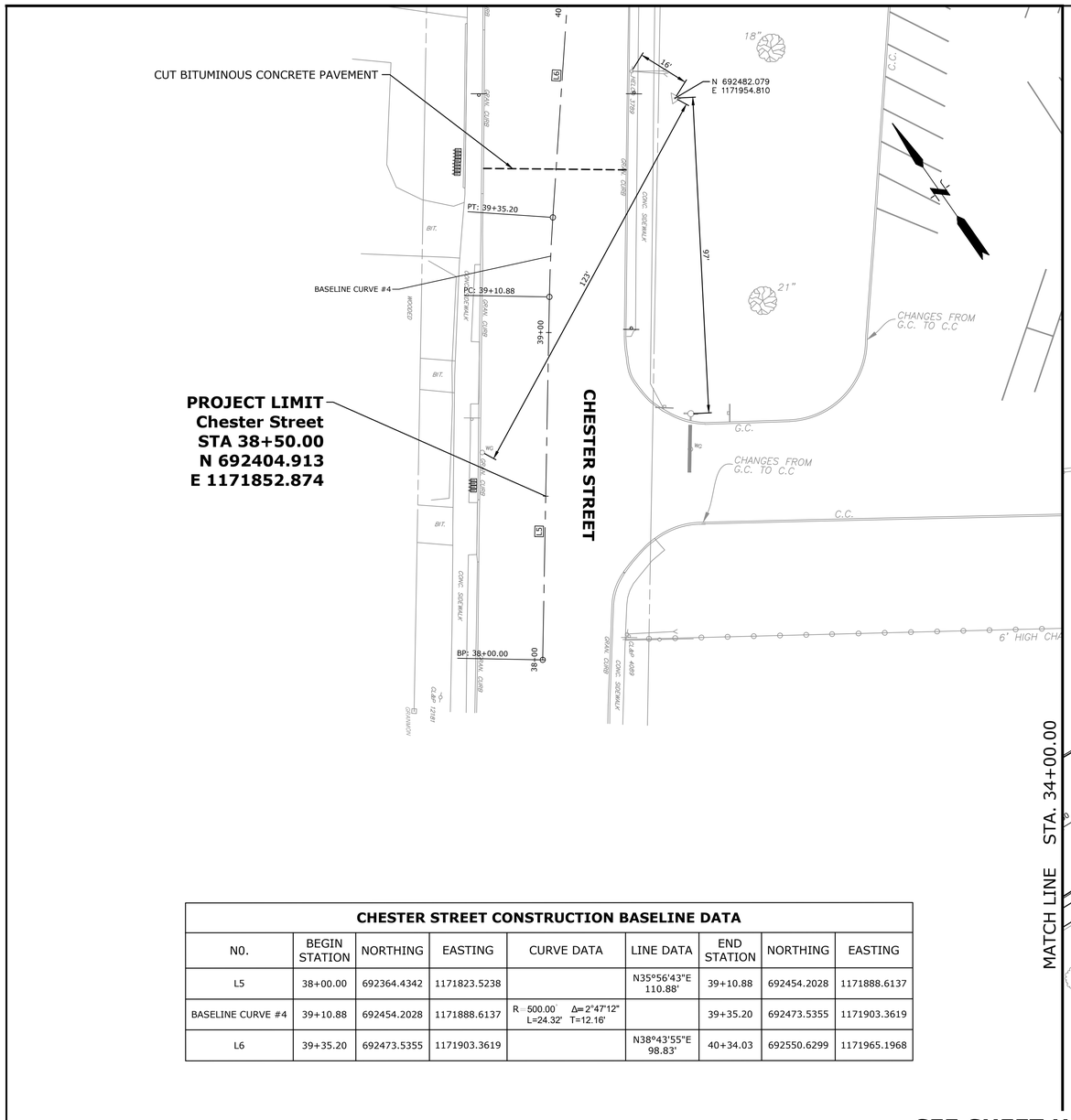
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

ALN-05

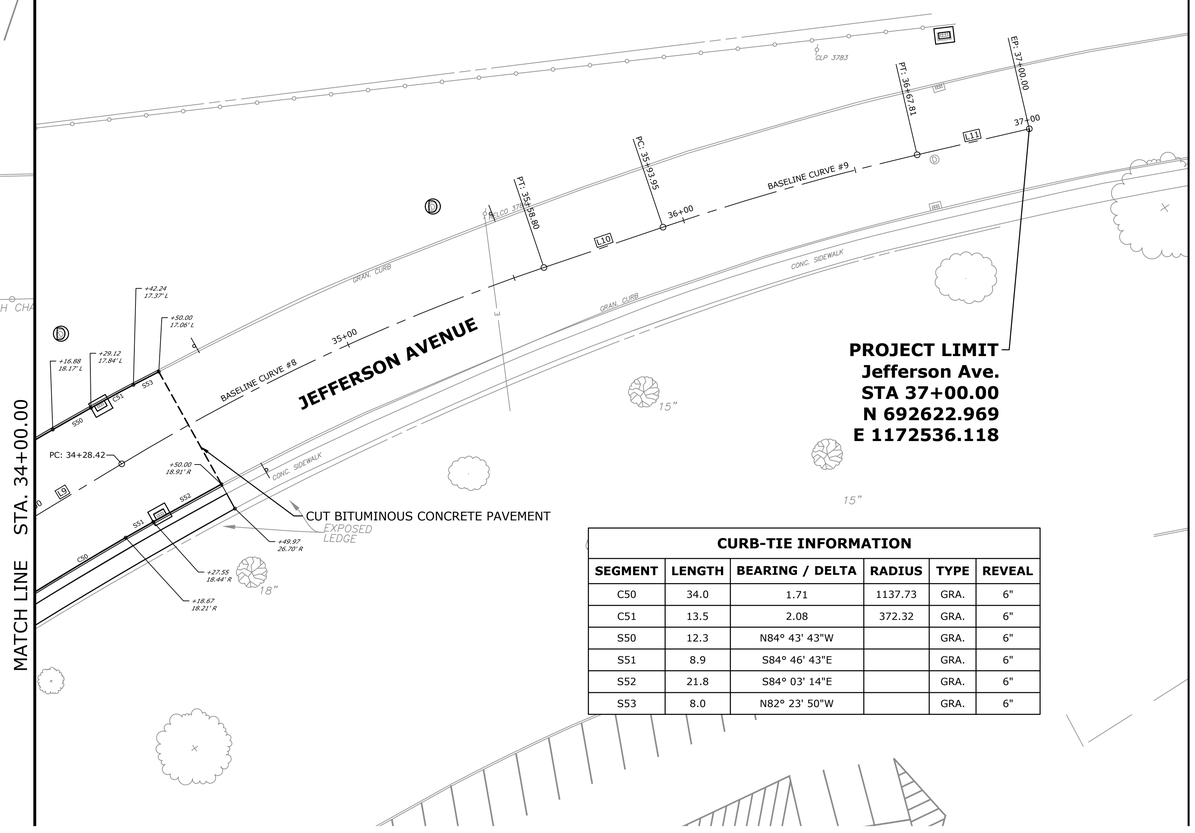
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MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

MATCH LINE STA. 40+00.00



CHESTER STREET CONSTRUCTION BASELINE DATA								
N0.	BEGIN STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	END STATION	NORTHING	EASTING
L5	38+00.00	692364.4342	1171823.5238		N35°56'43"E 110.88'	39+10.88	692454.2028	1171888.6137
BASELINE CURVE #4	39+10.88	692454.2028	1171888.6137	R=500.00' Δ=2°47'12" L=24.32' T=12.16'		39+35.20	692473.5355	1171903.3619
L6	39+35.20	692473.5355	1171903.3619		N38°43'55"E 98.83'	40+34.03	692550.6299	1171965.1968

JEFFERSON AVE. CONSTRUCTION BASELINE DATA								
N0.	BEGIN STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	END STATION	NORTHING	EASTING
L9	33+80.46	692694.2979	1172226.6282		S86°17'11"E 47.96'	34+28.42	692691.1918	1172274.4839
BASELINE CURVE #8	34+28.42	692691.1918	1172274.4839	R=600.00' Δ=12°27'02" L=130.38' T=65.45'		35+58.80	692668.7325	1172402.6558
L10	35+58.80	692668.7325	1172402.6558		S73°50'09"E 35.15'	35+93.95	692658.9477	1172436.4141
BASELINE CURVE #9	35+93.95	692658.9477	1172436.4141	R=750.00' Δ=5°38'35" L=73.87' T=36.96'		36+67.81	692634.9257	1172506.2358
L11	36+67.81	692634.9257	1172506.2358		S68°11'34"E 32.19'	37+00.00	692622.9693	1172536.1178



CURB-TIE INFORMATION					
SEGMENT	LENGTH	BEARING / DELTA	RADIUS	TYPE	REVEAL
C50	34.0	1.71	1137.73	GRA.	6"
C51	13.5	2.08	372.32	GRA.	6"
S50	12.3	N84° 43' 43"W		GRA.	6"
S51	8.9	S84° 46' 43"E		GRA.	6"
S52	21.8	S84° 03' 14"E		GRA.	6"
S53	8.0	N82° 23' 50"W		GRA.	6"

SEE SHEET HPN-06 FOR CONSTRUCTION PLAN
SEE SHEET EXC-06 FOR EXISTING CONDITION PLAN
SEE SHEET GRA-06 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-06 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-06 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
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DATUM:
HORZ.:
VERT.:
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GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

CITY OF NEW LONDON

ALIGNMENT & CURB TIE PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

ALN-06

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MS VIEW: LAYER STATE:

CURB-TIE INFORMATION					
SEGMENT	LENGTH	BEARING / DELTA	RADIUS	TYPE	REVEAL
C22	143.1	6.47	1267.00	GRA.	6"
C23	3.2	90.31	2.00	GRA.	6"
C24	3.1	89.56	2.00	GRA.	6"
C25	3.2	90.26	2.00	GRA.	6"
C26	3.1	89.55	2.00	GRA.	6"
C27	3.1	88.60	2.00	GRA.	6"
C28	42.2	1.61	1500.00	GRA.	6"
C29	84.9	9.73	500.00	GRA.	6"
C30	3.0	87.04	2.00	GRA.	6"
C31	24.7	25.70	55.00	GRA.	6"
C32	67.5	48.38	80.00	GRA.	6"
C33	34.9	18.20	110.00	GRA.	6"
C35	4.4	9.86	25.39	GRA.	6"
C36	2.0	116.62	1.00	GRA.	6"
C37	73.9	20.16	210.00	GRA.	6"
C38	8.6	98.36	5.00	GRA.	6"
C39	13.5	77.57	10.00	GRA.	6"
C40	13.2	15.07	50.00	GRA.	6"
C41	6.3	71.90	5.00	GRA.	6"
C42	34.2	4.91	400.00	GRA.	6"
C43	61.6	30.71	115.00	GRA.	6"
C44	38.7	45.70	48.50	GRA.	6"
C45	1.2	1.43	48.50	GRA.	6"
C46	103.4	29.63	200.00	GRA.	6"
C47	60.6	40.84	85.00	GRA.	6"
C48	9.1	5.23	100.00	GRA.	6"
C49	36.9	4.23	500.00	GRA.	6"
C86	3.2	91.01	2.00	GRA.	6"
C87	11.1	25.98	24.50	GRA.	6"
C88	52.4	41.67	72.00	GRA.	6"
C89	17.1	19.77	49.50	GRA.	6"
C91	3.1	90.00	2.00	GRA.	6"
C92	3.4	98.47	2.00	GRA.	6"
C93	3.2	90.47	2.00	GRA.	6"
C94	3.2	91.24	2.00	GRA.	6"
C95	24.5	1.10	1275.00	GRA.	6"
C98	20.3	13.67	85.00	GRA.	6"
C99	3.2	91.01	2.00	GRA.	6"
C100	3.2	91.29	2.00	GRA.	6"

CURB-TIE INFORMATION					
SEGMENT	LENGTH	BEARING / DELTA	RADIUS	TYPE	REVEAL
C101	3.2	91.31	2.00	GRA.	6"
C102	11.6	66.62	10.00	GRA.	6"
S26	172.1	N52° 18' 05"W		GRA.	6"
S27	189.9	S52° 18' 05"E		GRA.	6"
S28	0.5	S36° 18' 00"W		GRA.	6"
S29	0.5	N35° 45' 04"E		GRA.	6"
S30	0.5	S35° 29' 04"W		GRA.	6"
S31	0.5	N34° 57' 04"E		GRA.	6"
S32	12.7	S53° 54' 50"E		GRA.	6"
S33	0.5	S31° 31' 03"W		GRA.	6"
S34	0.6	N34° 58' 39"E		GRA.	6"
S35	13.3	N58° 46' 25"W		GRA.	6"
S36	1.3	S33° 04' 26"E		GRA.	6"
S37	4.0	S15° 18' 07"W		GRA.	6"
S38	3.4	S35° 27' 36"W		GRA.	6"
S39	20.4	S50° 32' 02"W		GRA.	6"
S40	0.7	N57° 34' 06"W		GRA.	6"
S41	15.0	S35° 20' 11"W		GRA.	6"
S44	78.3	S89° 20' 38"W		GRA.	6"
S47	6.0	N89° 20' 38"E		GRA.	6"
S48	45.4	S85° 25' 36"E		GRA.	6"
S49	15.7	N85° 16' 12"W		GRA.	6"
S64	50.0	S52° 21' 05"E		GRA.	6"
S65	1.0	S55° 37' 39"E		GRA.	6"
S66	1.1	S15° 18' 07"W		GRA.	6"
S67	19.4	S34° 58' 32"W		GRA.	6"
S68	28.5	S35° 05' 35"W		GRA.	6"
S69	16.4	S35° 14' 59"W		GRA.	6"
S70	8.3	S34° 12' 05"W		GRA.	6"
S71	5.8	S36° 02' 02"W		GRA.	6"
S74	3.1	N31° 13' 35"E		GRA.	6"
S75	3.1	N31° 13' 35"E		GRA.	6"
S76	0.5	S74° 13' 35"E		GRA.	6"
S77	0.9	S74° 13' 35"E		GRA.	6"
S79	0.6	S51° 31' 34"E		GRA.	6"
S80	1.7	S35° 06' 32"W		GRA.	6"
S81	1.0	N53° 08' 11"W		GRA.	6"
S82	1.0	N14° 06' 38"W		GRA.	6"
S83	1.0	N14° 06' 38"W		GRA.	6"

CURB-TIE INFORMATION					
SEGMENT	LENGTH	BEARING / DELTA	RADIUS	TYPE	REVEAL
C96	179.1	360.00	28.50	GRA.	2"
C97	72.3	360.00	11.50	GRA.	6"

CURB-TIE INFORMATION					
SEGMENT	LENGTH	BEARING / DELTA	RADIUS	TYPE	REVEAL
C74	10.9	8.89	70.00	GRA.	4"
C75	5.6	106.20	3.00	GRA.	4"
C76	47.4	15.52	175.00	GRA.	4"
C77	22.2	1.71	741.94	GRA.	4"
C78	6.3	179.58	2.00	GRA.	FLUSHED
C79	3.7	2.12	100.00	GRA.	4"
C80	20.0	14.32	80.00	GRA.	4"
C81	2.0	112.52	1.00	GRA.	4"
C82	1.5	86.88	1.00	GRA.	4"
C83	1.4	78.62	1.00	GRA.	4"
C84	1.6	90.00	1.00	GRA.	4"
C85	1.7	97.42	1.00	GRA.	4"
S45	61.0	S88° 31' 57"E		GRA.	4"
S46	22.0	S89° 20' 38"W		GRA.	4"
S61	7.6	N0° 39' 22"W		GRA.	4"
S62	9.9	N89° 20' 38"E		GRA.	4"
S63	5.5	S0° 39' 22"E		GRA.	4"

CURB-TIE INFORMATION					
SEGMENT	LENGTH	BEARING / DELTA	RADIUS	TYPE	REVEAL
C52	6.1	175.51	2.00	GRA.	FLUSHED
C53	47.6	13.63	200.03	GRA.	4"
C54	5.5	105.90	3.00	GRA.	4"
C55	10.9	13.60	45.95	GRA.	4"
C56	2.1	120.09	1.00	GRA.	4"
C57	19.4	18.50	60.00	GRA.	4"
C58	1.6	89.71	1.00	GRA.	4"
C59	1.7	99.66	1.00	GRA.	4"
C60	1.5	86.86	1.00	GRA.	4"
C61	1.5	85.41	1.00	GRA.	4"
S54	18.9	N53° 39' 31"W		GRA.	4"
S55	3.9	N26° 41' 11"E		GRA.	4"
S56	5.9	S26° 41' 11"W		GRA.	4"
S57	4.9	N58° 46' 25"W		GRA.	4"

CURB-TIE INFORMATION					
SEGMENT	LENGTH	BEARING / DELTA	RADIUS	TYPE	REVEAL
C62	5.6	106.51	3.00	GRA.	4"
C63	37.7	17.28	125.00	GRA.	4"
C64	5.9	165.49	2.05	GRA.	FLUSHED
C65	5.5	12.50	25.00	GRA.	4"
C66	11.9	1.69	403.00	GRA.	4"
C67	17.9	11.95	86.00	GRA.	4"
C68	2.1	119.39	1.00	GRA.	4"
C69	10.8	13.83	44.93	GRA.	4"
C70	1.4	77.89	1.00	GRA.	4"
C71	1.6	90.01	1.00	GRA.	4"
C72	1.6	91.57	1.00	GRA.	4"
C73	1.7	96.58	1.00	GRA.	4"
S58	7.7	S62° 16' 34"E		GRA.	4"
S59	5.6	S62° 16' 34"E		GRA.	4"
S60	7.6	S42° 02' 15"W		GRA.	4"

NOTE:

1. **CURB REVEAL INFORMATION DOES NOT DEPICT EXACT CONDITIONS AT SPLITTER ISLANDS CROSSWALKS, SIDEWALK RAMPS, AND DRIVEWAYS. CONTRACTOR TO ENSURE PROPER CURBING INSTALLATION AT THESE LOCATIONS. SEE MDS-01 - MDS-03 FOR DETAILS.**

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

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CITY OF NEW LONDON

ALIGNMENT & CURB TIE PLAN

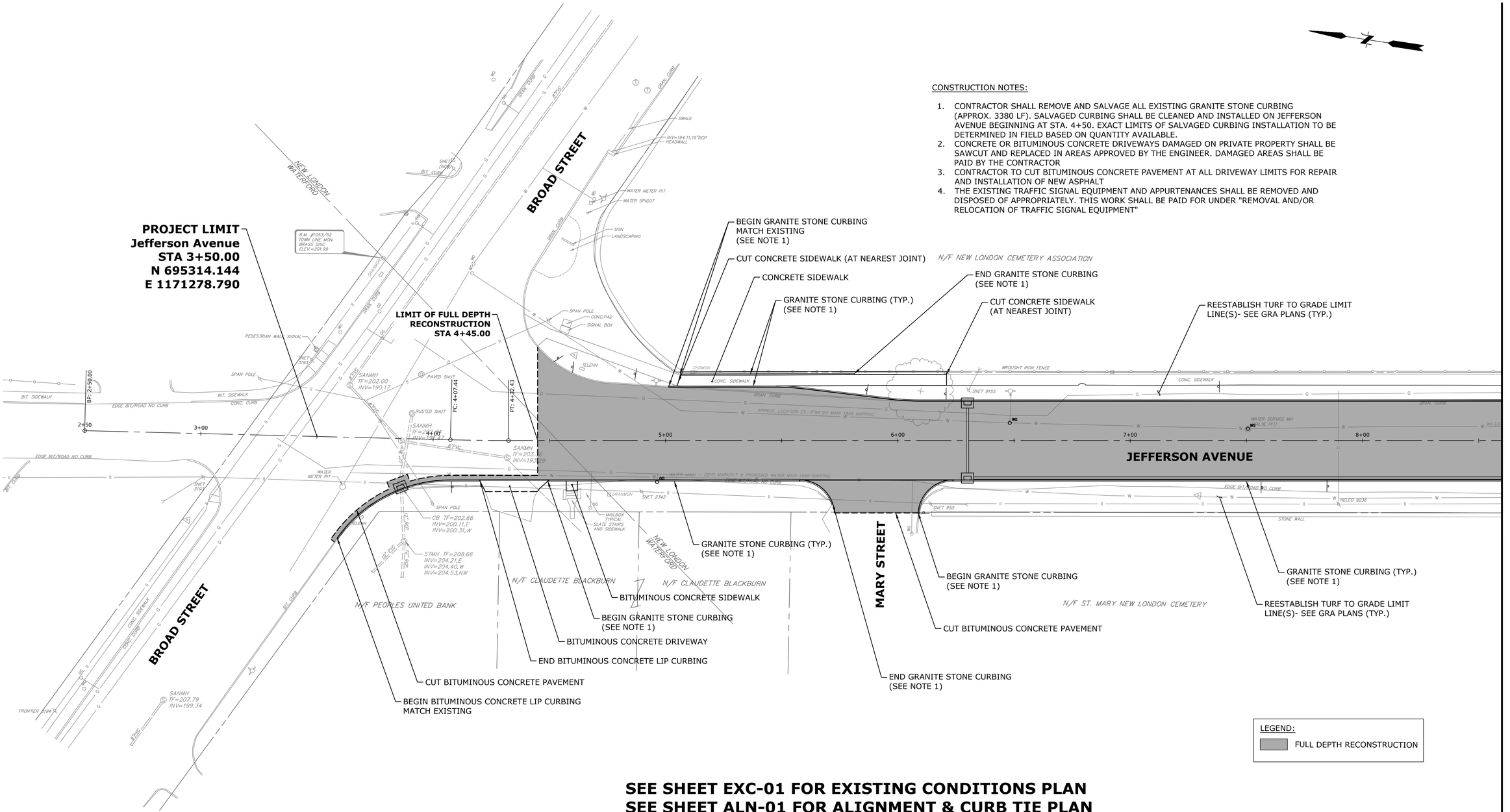
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

ALN-07

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SEE SHEET EXC-01 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-01 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET GRA-01 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-01 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-01 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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CITY OF NEW LONDON

CONSTRUCTION PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

HPN-01

File Path: J:\DWG\P20170353A20\Civil\Plan\20170353A20_HPN01.dwg Layout: HPN-01 Plotted: Thu, January 27, 2022 - 11:36 AM User: stanski
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MATCH LINE STA. 8+60.00

MATCH LINE STA. 15+05.00

LEGEND:

FULL DEPTH RECONSTRUCTION

N/F NEW LONDON CEMETERY ASSOCIATION

REESTABLISH TURF TO GRADE LIMIT LINE(S)- SEE GRA PLANS (TYP.)

GRANITE STONE CURBING (TYP.) (SEE NOTE 1 ON HPN-01)

CUT CONCRETE SIDEWALK (AT NEAREST JOINT)

CONCRETE SIDEWALK

CUT CONCRETE SIDEWALK (AT NEAREST JOINT)

CB TF=198.14
INVERT
INACCESSIBLE

CONC. SIDEWALK

WROUGHT IRON FENCE

GRAN. CURB

WATER MAIN – CBYD MARKOUT & APPROX. LOCATION EX. 8"WATER MAIN 1959 MAPPING

9+00 10+00 11+00 12+00 13+00 14+00 15+00

JEFFERSON AVENUE

EDGE BIT/ROAD NO CURB

WATER MAIN – CBYD MARKOUT & PROPOSED WATER MAIN 1959 MAPPING

HELCO 9235

HELCO 9234

HELCO 9233

15" CMP

STONE WALL

BRASS PIN

CB TF=198.25
INV=195.90,NE
INV=195.00,SE

GRANITE STONE CURBING (TYP.) (SEE NOTE 1 ON HPN-01)

REESTABLISH TURF TO GRADE LIMIT LINE(S)- SEE GRA PLANS (TYP.)

N/F ST. MARY NEW LONDON CEMETERY

BEGIN GRANITE STONE CURBING (SEE NOTE 1 ON HPN-01)

CUT BITUMINOUS CONCRETE PAVEMENT

BITUMINOUS CONCRETE DRIVEWAY (COMMERCIAL)

END GRANITE STONE CURBING (SEE NOTE 1 ON HPN-01)

GRANITE STONE CURBING (TYP.) (SEE NOTE 1 ON HPN-01)

SEE SHEET EXC-02 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-02 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET GRA-02 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-02 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-02 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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CITY OF NEW LONDON

CONSTRUCTION PLAN

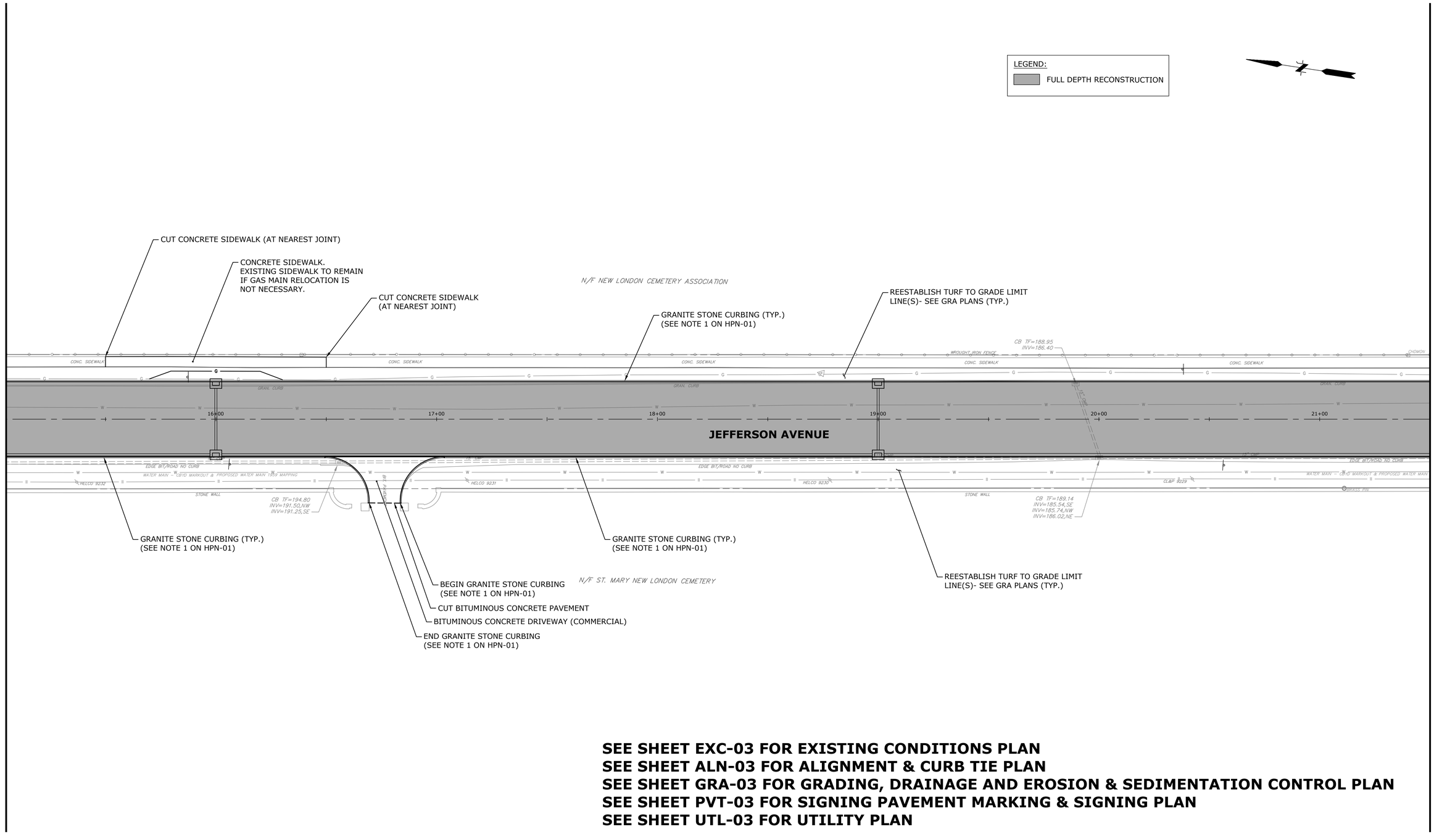
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

HPN-02

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MS VIEW:



SEE SHEET EXC-03 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-03 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET GRA-03 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-03 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-03 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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CITY OF NEW LONDON

CONSTRUCTION PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

HPN-03

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LAYER STATE:
MS VIEW:

MATCH LINE STA. 21+50.00

MATCH LINE STA. 27+50.00

LEGEND:

FULL DEPTH RECONSTRUCTION

PROTECT EXISTING DECORATIVE FENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING/REPAIRING FENCING DAMAGED DURING CONSTRUCTION.

CUT CONCRETE SIDEWALK (AT NEAREST JOINT)

CONCRETE SIDEWALK (TYP.)

REMOVE CONCRETE CURB STA. 26+25 TO 27+04 72 LF APPROX.

CONCRETE CURBING (6" REVEL)

CUT CONCRETE SIDEWALK (AT NEAREST JOINT)

RETAIN EXISTING CURBING

CUT CONCRETE SIDEWALK (AT NEAREST JOINT)

CUT CONCRETE SIDEWALK (AT NEAREST JOINT)

CONCRETE SIDEWALK

N/F NEW LONDON CEMETERY ASSOCIATION

REESTABLISH TURF TO GRADE LIMIT LINE(S)- SEE GRA PLANS (TYP.)

GRANITE STONE CURBING (TYP.) APPROXIMATE LIMIT OF SALVAGED CURBING INSTALLATION (SEE NOTE 1 ON HPN-01)

CONC. SIDEWALK

GRAN. CURB

WROUGHT IRON FENCE

CHAIN

WATER MAIN – CBYD MARKOUT & APPROX. LOCATION EX. 8"WATER MAIN 1959 MAPPING

CB TF=181.00
INV=178.09

PVC: 27+98.44

22+00

23+00

24+00

25+00

26+00

27+00

JEFFERSON AVENUE

15" CMP

12" CMP

EDGE BIT/ROAD NO CURB

HELCO 9228

HELCO 9227

HELCO 9226

HELCO 4342

STONE WALL

PROPOSED WATER MAIN 1959 & 1968 MAPPING

CB TF=178.05
INV=172.65:NW
INV=172.55:SW

N/F EAGLE POINT LLC

CB TF=185.04
INV=181.39,SE
INV=181.79,NW

GRANITE STONE CURBING (TYP.) APPROXIMATE LIMIT OF SALVAGED CURBING INSTALLATION (SEE NOTE 1 ON HPN-01)

REESTABLISH TURF TO GRADE LIMIT LINE(S)- SEE GRA PLANS (TYP.)

N/F ST. MARY NEW LONDON CEMETERY

CB TF=181.94
INV=176.84,SE
INV=177.94,NE
INV=177.19,N

REMOVE METAL BEAM RAIL

GRANITE STONE CURBING (TYP.)

BEGIN GRANITE STONE CURBING

CUT BITUMINOUS CONCRETE PAVEMENT

BITUMINOUS CONCRETE DRIVEWAY (COMMERCIAL)

END GRANITE STONE CURBING

REMOVE ASPHALT, PAID UNDER EARTH EXCAVATION

CUT BITUMINOUS CONCRETE PAVEMENT

SEE SHEET EXC-04 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-04 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET GRA-04 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-04 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-04 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.:
VERT.:
20 10 0 20
GRAPHIC SCALE

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CITY OF NEW LONDON

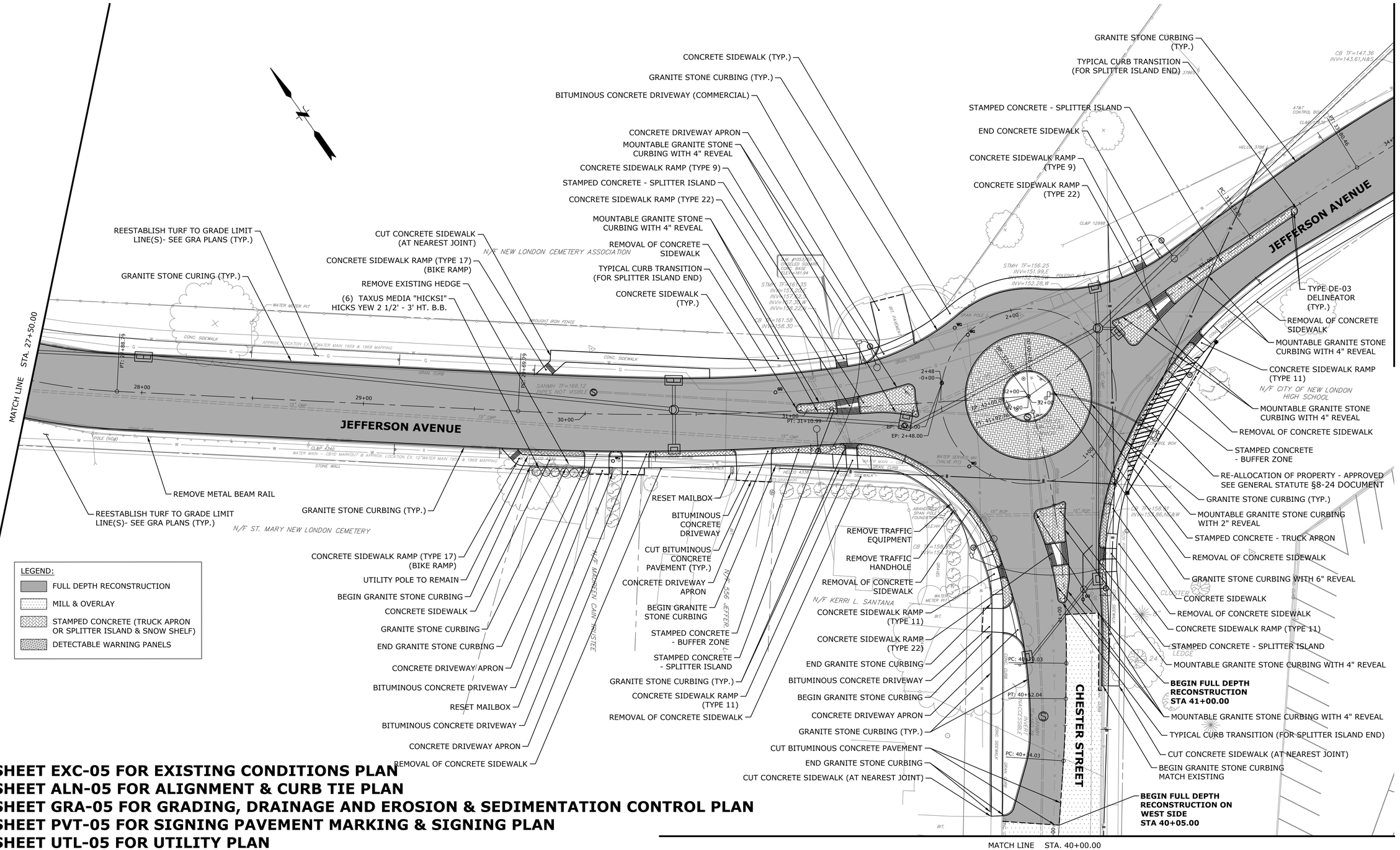
CONSTRUCTION PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

HPN-04



SEE SHEET EXC-05 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-05 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET GRA-05 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-05 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-05 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

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VERT.:
DATUM: HORZ.:
VERT.:
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CONSTRUCTION PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

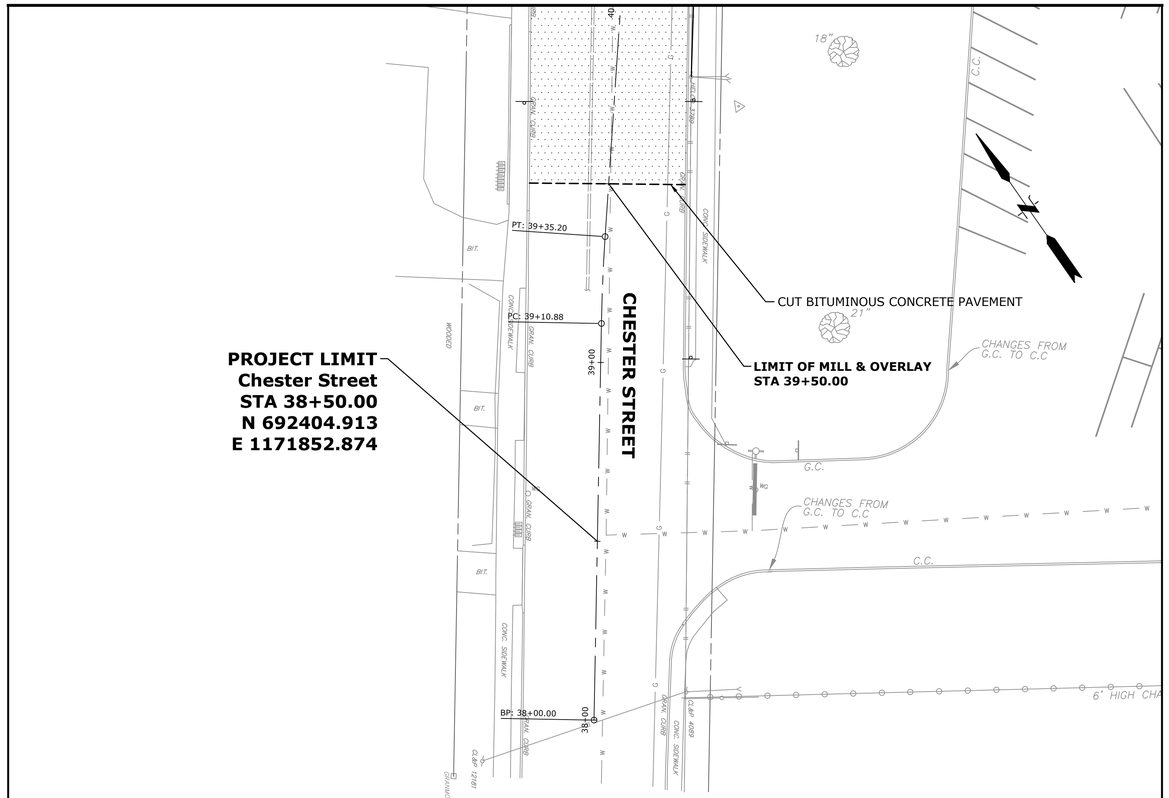
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

HPN-05

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
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MS VIEW:

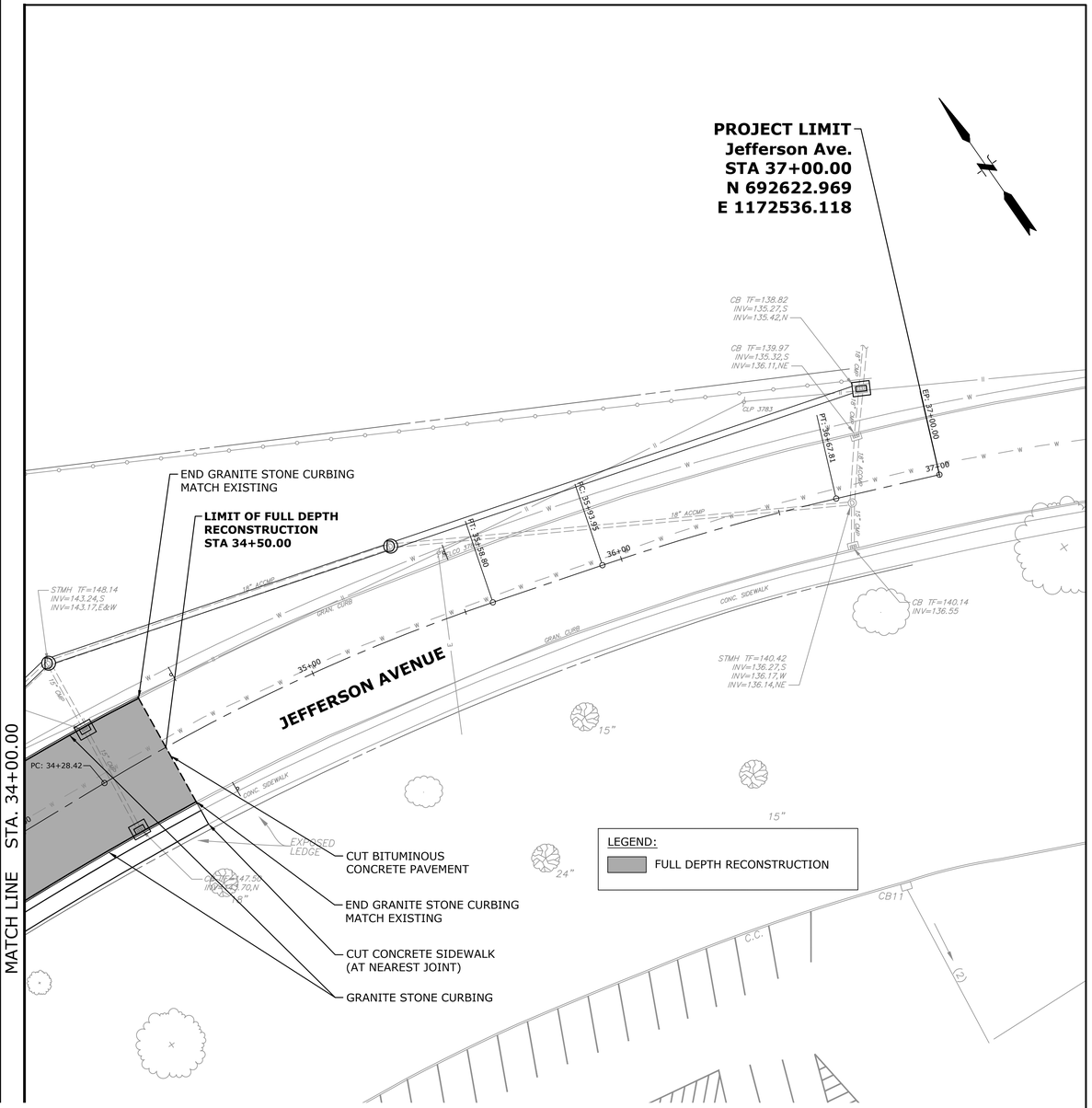
MATCH LINE STA. 40+00.00



LEGEND:

MILL & OVERLAY

MATCH LINE STA. 34+00.00



LEGEND:

FULL DEPTH RECONSTRUCTION

SEE SHEET EXC-06 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-06 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET GRA-06 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-06 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-06 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.:
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20 10 0 20
GRAPHIC SCALE

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CONSTRUCTION PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

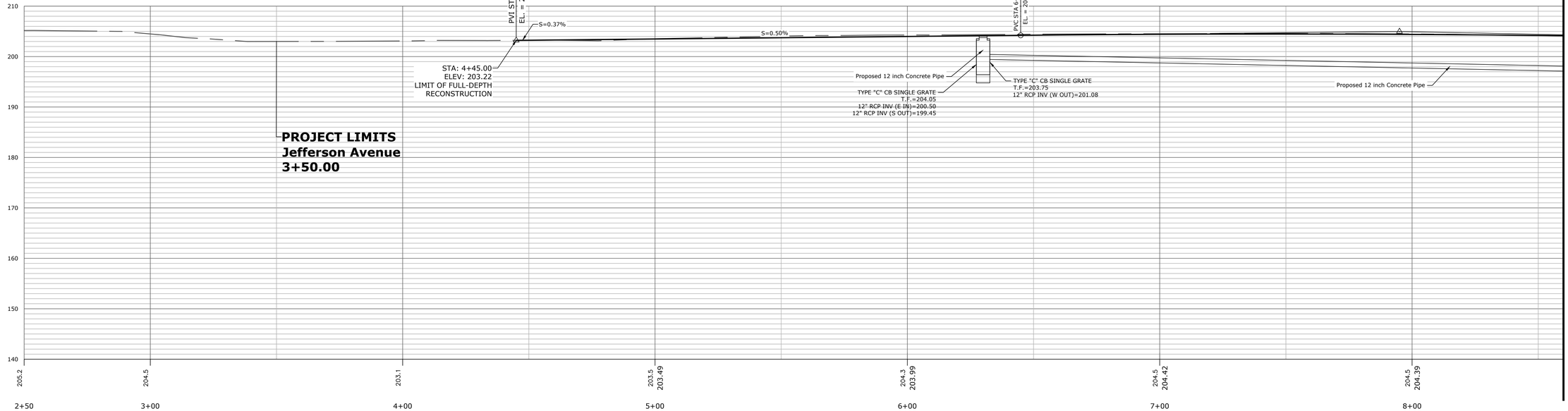
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

HPN-06

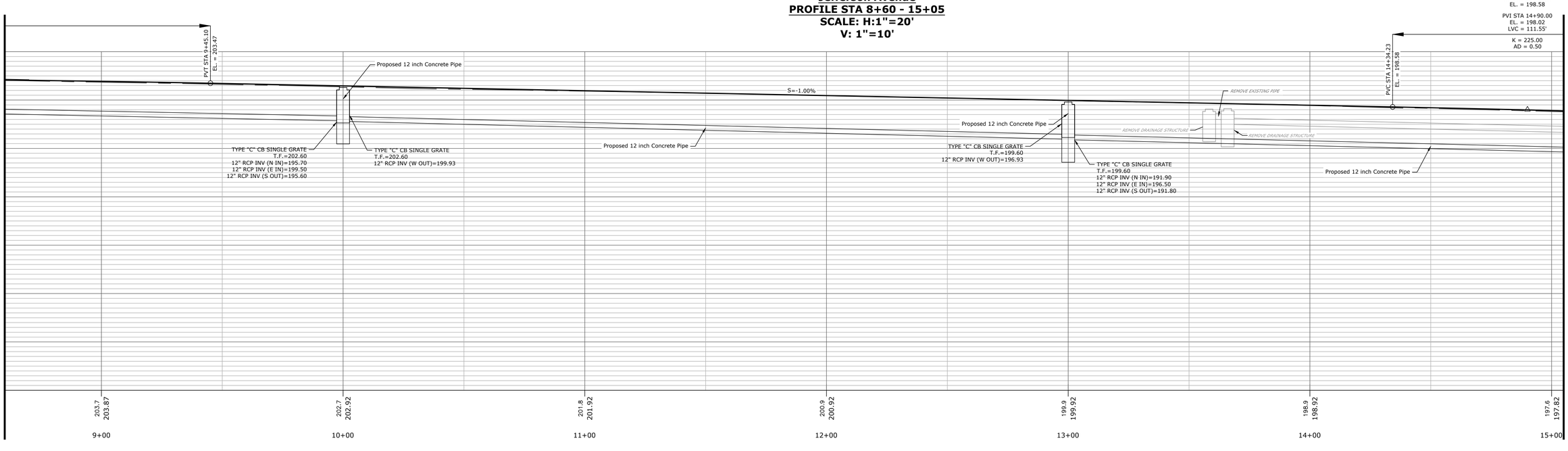
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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

Jefferson Avenue
PROFILE STA 2+50 - 8+60
SCALE: H:1"=20'
V: 1"=10'



MATCH LINE SEE BELOW

Jefferson Avenue
PROFILE STA 8+60 - 15+05
SCALE: H:1"=20'
V: 1"=10'



MATCH LINE SEE ABOVE

MATCH LINE SEE SHEET PRO-02

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.:
VERT.:
20 10 0 20
GRAPHIC SCALE

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ROADWAY PROFILE
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

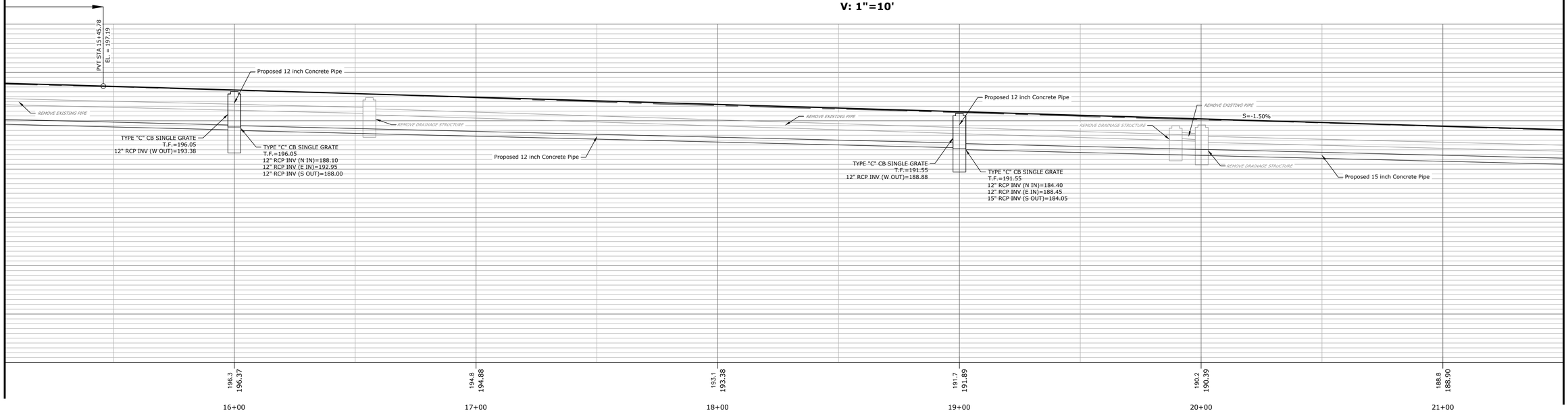
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

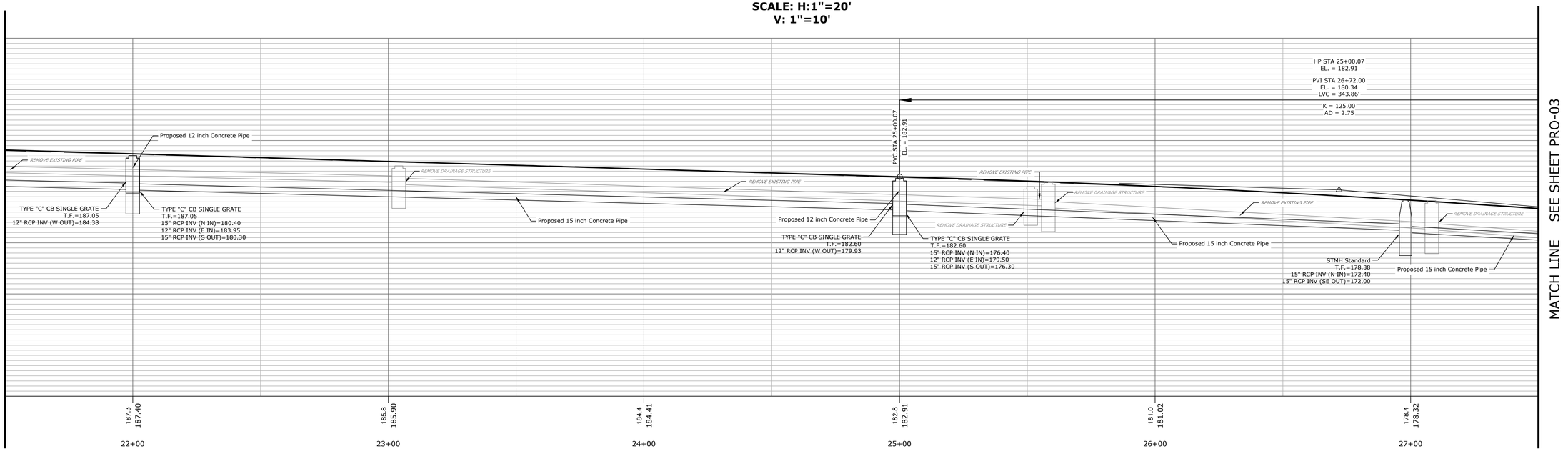
PRO-01

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

Jefferson Avenue
PROFILE STA 15+05 - 21+50
SCALE: H:1"=20'
V: 1"=10'



Jefferson Avenue
PROFILE STA 21+50 - 27+50
SCALE: H:1"=20'
V: 1"=10'



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.:
VERT.:
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GRAPHIC SCALE

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CITY OF NEW LONDON

ROADWAY PROFILE
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

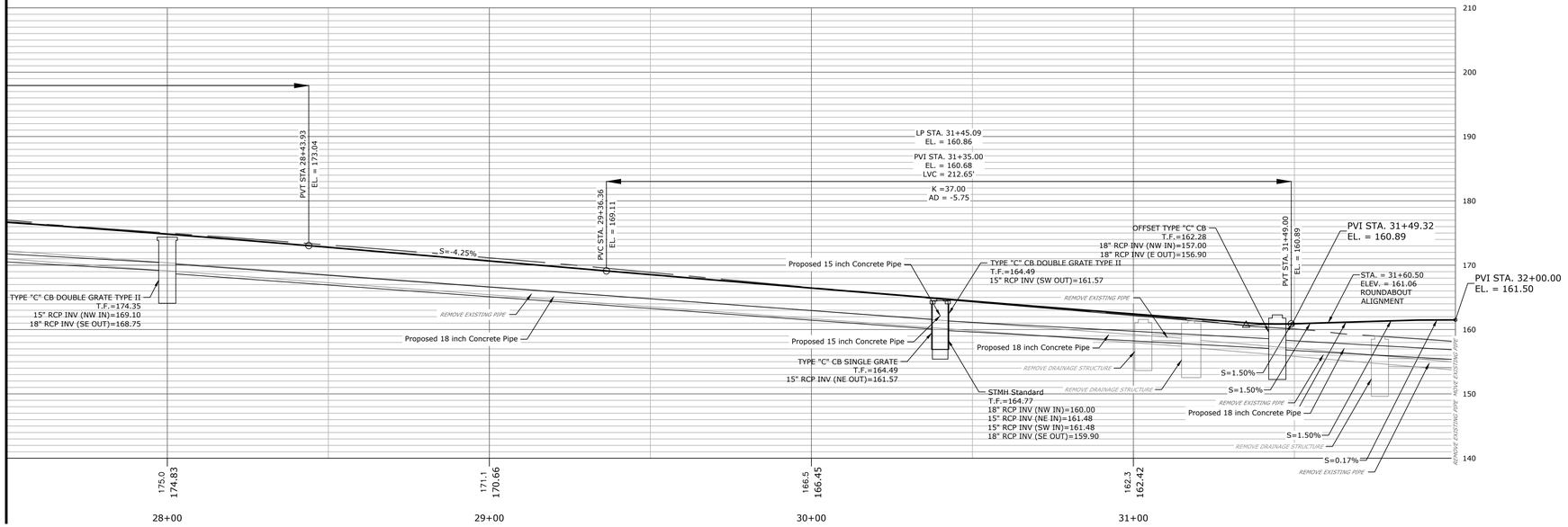
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

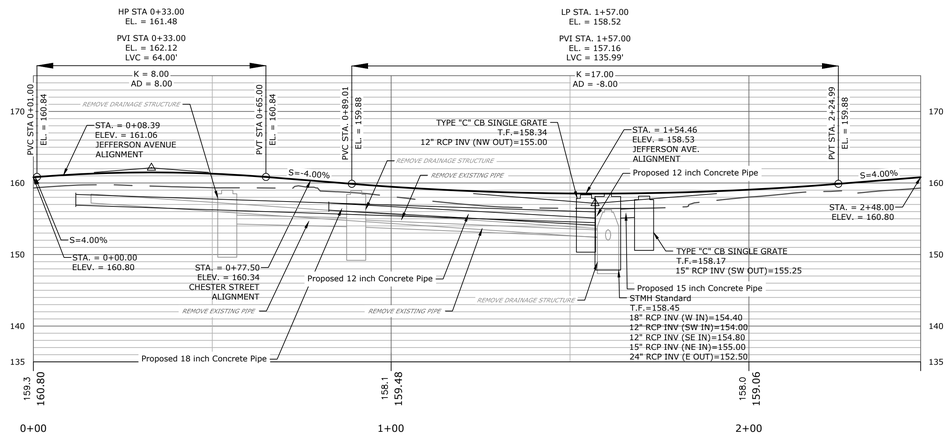
PRO-02

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

MATCH LINE SEE SHEET PRO-02

Jefferson Avenue
PROFILE STA 27+50 - 32+00
SCALE: H:1"=20'
V: 1"=10'





Roundabout
PROFILE STA 0+00 - 2+48
SCALE: H:1"=20'
V:1"=10'

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.:
VERT.:
20 10 0 20
GRAPHIC SCALE

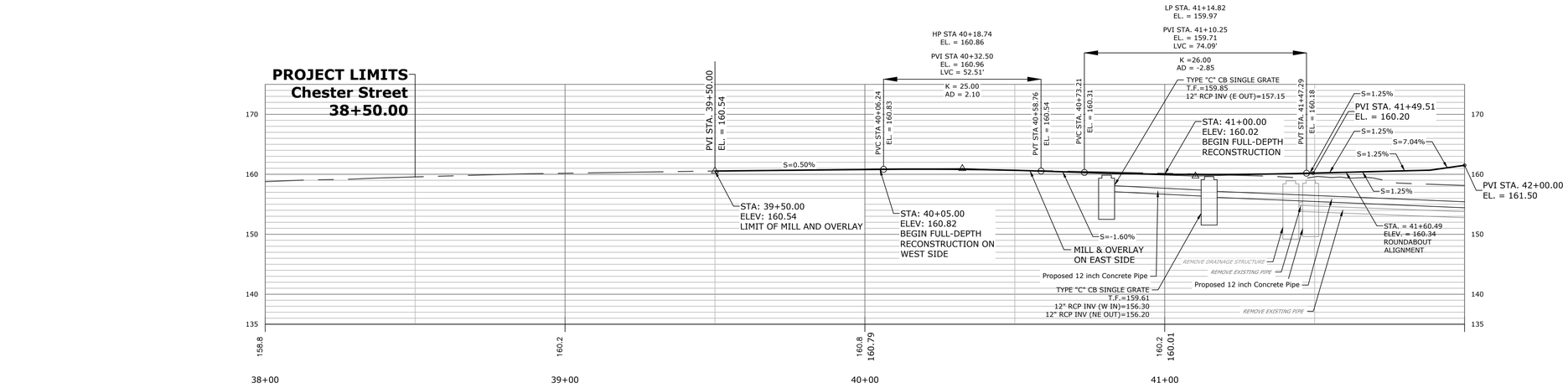
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CITY OF NEW LONDON
ROADWAY PROFILE
JEFFERSON AVENUE AND ROUNDABOUT
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS
NEW LONDON CONNECTICUT

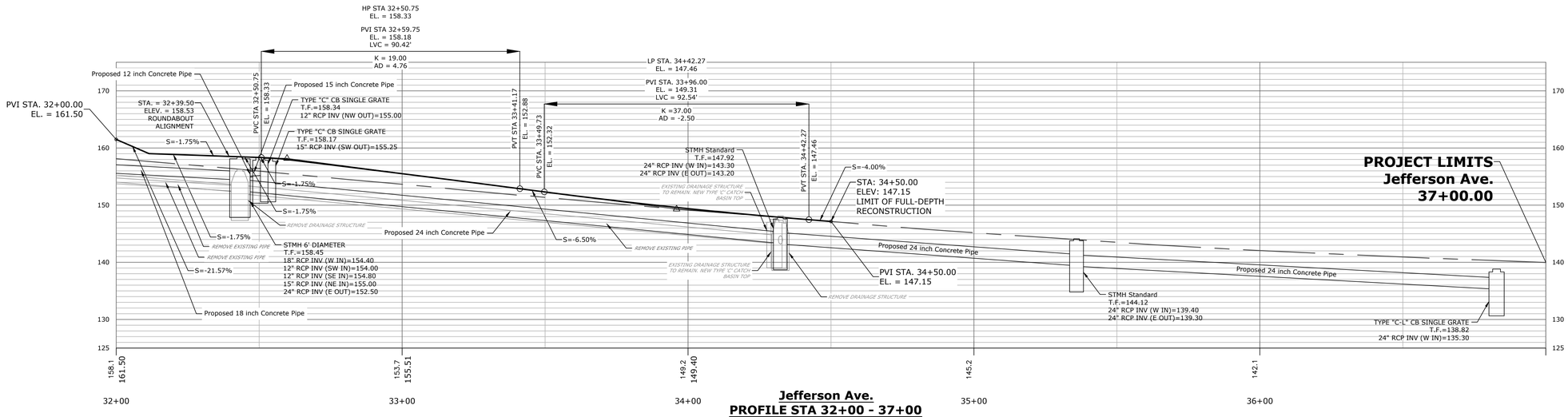
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

PRO-03

File Path: J:\DWG\P2017\0353\A20\Civil\Profile\20170353A20_PRO01.dwg Layout: PRO-03 Plotted: Tue, January 25, 2022 - 3:34 PM User: stanski
MS VIEW: LAYER STATE:
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB



Chester Street
PROFILE STA 38+00 - 42+00
SCALE: H:1"=20'
V:1"=10'



Jefferson Ave.
PROFILE STA 32+00 - 37+00
SCALE: H:1"=20'
V: 1"=10'

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.:
VERT.:
20 10 0 20
GRAPHIC SCALE

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CITY OF NEW LONDON
ROADWAY PROFILE
CHESTER STREET AND JEFFERSON AVENUE
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

PRO-04

File Path: J:\DWG\P2017\0353\A20\Civil\Profile\20170353A20_PRO01.dwg Layout: PRO-04 Plotted: Tue, January 25, 2022 - 3:34 PM User: stanski
MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

NOTES:

1. SILT SACKS SHALL BE PLACED ON ALL EXISTING CATCH BASINS THROUGHOUT THE DURATION OF CONSTRUCTION
2. CONTRACTOR SHALL CLEAN EXISTING DRAINAGE SYSTEM WHEN CONSTRUCTION IS COMPLETE. THE PRICE FOR THIS WORK SHALL BE INCLUDED IN PROPOSED DRAINAGE ITEMS.
3. ALL CATCH BASINS SHALL HAVE 4' SUMPS
4. CONTRACTOR TO VERIFY INVERT ELEVATIONS
5. CONTRACTOR TO CONFIRM CATCH BASIN GRATE ELEVATIONS ARE DEPRESSED 1" OR 2" BELOW PROPOSED / PROVIDED TOP OF FRAME ELEVATIONS PER CTDOT DRAINAGE DETAILS (SEE CTDOT DETAILS HW-507_01 TO 03)
6. ALL EXISTING DRAINAGE STRUCTURES AND PIPES CALLED FOR REMOVAL SHALL BE COMPLETELY REMOVED AND DISPOSED OF APPROPRIATELY

PROJECT LIMIT
Jefferson Avenue
STA 3+50.00
N 695314.144
E 1171278.790

NEW LONDON WATERFORD

B.M. #1053/52 TOWN LINE MON. BRASS DISC ELEV=201.99

BROAD STREET

GRANITE CURB

12"PVC

SWALE

INV=194.11,15"RCP HEADWALL

WATER METER PIT

WATER SPIGOT

SIGN

LANDSCAPING

SPAN POLE

CONC.PAD

SIGNAL BOX

PEDESTRIAN WALK SIGNAL

TELEPH

SNET MH

SANMH TF=202.00 INV=190.17

PAVED SHUT

RUSTED SHUT

PC: 4+07.44

PT: 4+52.43

SANMH TF=204.00 INV=192.27

SANMH TF=203.16 INV=193.29

BIT. SIDEWALK

BIT. CURB

CONC. CURB

EDGE BIT/ROAD NO CURB

BR: 2+50.00

2+50

3+00

4+00

5+00

6+00

7+00

8+00

WATER MAIN

APPROX. LOCATION EX. 8"WATER MAIN 1959 MAPPING

WATER SERVICE MH (VALVE PIT)

CHDMON

CONC. SIDEWALK

WROUGHT IRON FENCE

GRAN. CURB

JEFFERSON AVENUE

N/F NEW LONDON CEMETERY ASSOCIATION

TYPE 'C' CATCH BASIN
(4' SUMP) - 0' - 10' DEEP
STA. 6+30.00
OFFSET: 17.00' LT
T.F.=203.75'
12" RCP INV (W OUT)=201.08'

SEDIMENT CONTROL SYSTEM AT CATCH BASIN (TYP.)

TREE PROTECTION (TYP.)

12" R.C. PIPE (CLASS V) - 0' - 10' DEEP
28 LF

GRADING LIMIT LINE (TYP.)

MATCH LINE STA. 8+60.00

SNET 2342

GRANNON

MAILBOX TYPICAL

SLATE STAIRS AND SIDEWALK

CB TF=202.66 INV=200.11,E INV=200.31,W

SANMH TF=208.66 INV=204.21,E INV=204.40,W INV=204.53,NW

SEDIMENT CONTROL SYSTEM AT CATCH BASIN

TYPE 'C' CATCH BASIN TOP

N/F CLAUDETTE BLACKBURN

N/F PEOPLES UNITED BANK

LIMIT OF FULL DEPTH RECONSTRUCTION STA 4+45.00

CUT BITUMINOUS CONCRETE PAVEMENT

MARY STREET

N/F ST. MARY NEW LONDON CEMETERY

TYPE 'C' CATCH BASIN
(4' SUMP) - 0' - 10' DEEP
STA. 6+30.00
OFFSET: 17.00' RT
T.F.=204.05'
12" RCP INV (E IN)=200.50'
12" RCP INV (S OUT)=199.45'

12" R.C. PIPE - 0' - 10' DEEP
365 LF

STONE WALL

SANMH TF=207.79 INV=199.34

FRONTIER 3194

LEGEND:

FURNISHING AND PLACING TOPSOIL TURF ESTABLISHMENT

SEE SHEET EXC-01 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-01 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-01 FOR CONSTRUCTION PLAN
SEE SHEET PVT-01 FOR PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-01 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.:
VERT.:
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GRAPHIC SCALE

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CITY OF NEW LONDON

GRADING, DRAINAGE, AND EROSION SEDIMENTATION CONTROL PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

GRA-01

File Path: J:\DWG\P20170353A20\Civil\Plan\20170353A20_GRA01.dwg Layout: GRA-01 Plotted: Thu, January 27, 2022 - 11:28 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

MATCH LINE STA. 8+60.00

MATCH LINE STA. 15+05.00

LEGEND:

FURNISHING AND PLACING TOPSOIL
TURF ESTABLISHMENT

TYPE 'C' CATCH BASIN
(4' SUMP) - 0' - 10' DEEP
STA. 10+00.00
OFFSET: 17.00' LT
T.F.=202.60'
12" RCP INV (W OUT)=199.93'

12" R.C. PIPE (CLASS V) - 0' - 10' DEEP
28' LF

TYPE 'C' CATCH BASIN
(4' SUMP) - 0' - 10' DEEP
STA. 13+00.00
OFFSET: 17.00' LT
T.F.=199.60'
12" RCP INV (W OUT)=196.93'

12" R.C. PIPE (CLASS V) - 0' - 10' DEEP
28 LF

REMOVE DRAINAGE STRUCTURE -
0' - 10' DEEP

REMOVE EXISTING PIPE - 0' - 10'
DEEP

N/F NEW LONDON CEMETERY ASSOCIATION

CONC. SIDEWALK

WROUGHT IRON FENCE

GRAN. CURB

CB TF=198.14
INVERT
INACCESSIBLE

WATER MAIN -- CBYD MARKOUT & APPROX. LOCATION EX. 8"WATER MAIN 1959 MAPPING

WATER MAIN -- CBYD MARKOUT & APPROX. LOCATION EX. 8"WATER MAIN 1959 MAPPING

9+00 10+00 11+00 12+00 13+00 14+00 15+00

JEFFERSON AVENUE

STONE WALL

CB TF=198.25
INV=195.90,NE
INV=195.00,SE

GRADING LIMIT LINE (TYP.)

SEDIMENT CONTROL
SYSTEM AT CATCH BASIN
(TYP.)

TYPE 'C' CATCH BASIN
(4' SUMP) - 0' - 20' DEEP
STA. 10+00.00
OFFSET: 17.00' RT
T.F.=202.60'
12" RCP INV (N IN)=195.70'
12" RCP INV (E IN)=199.50'
12" RCP INV (S OUT)=195.60'

N/F ST. MARY NEW LONDON CEMETERY

12" R.C. PIPE - 0' - 10' DEEP
295 LF

TYPE 'C' CATCH BASIN
(4' SUMP) - 0' - 20' DEEP
STA. 13+00.00
OFFSET: 17.00' RT
T.F.=199.60'
12" RCP INV (N IN)=191.90'
12" RCP INV (E IN)=196.50'
12" RCP INV (S OUT)=191.80'

12" R.C. PIPE - 0' - 10' DEEP
295 LF

REMOVE DRAINAGE STRUCTURE -
0' - 10' DEEP

SEE SHEET EXC-02 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-02 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-02 FOR CONSTRUCTION PLAN
SEE SHEET PVT-02 FOR PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-02 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.:
VERT.:
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GRAPHIC SCALE

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CITY OF NEW LONDON

GRADING, DRAINAGE, AND EROSION SEDIMENTATION CONTROL PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

GRA-02

File Path: J:\DWG\P20170353\A20\Civil\Plan\20170353A20_GRA01.dwg Layout: GRA-02 Plotted: Thu, January 27, 2022 - 11:28 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

LEGEND:

FURNISHING AND PLACING TOPSOIL
TURF ESTABLISHMENT

MATCH LINE STA. 15+05.00

MATCH LINE STA. 21+50.00

TYPE 'C' CATCH BASIN
(4' SUMP) - 0' - 10' DEEP
STA. 16+00.00
OFFSET: 17.00' LT
T.F.=196.05'
12" RCP INV (W OUT)=193.38'

12" R.C. PIPE (CLASS V) - 0' - 10' DEEP
28 LF

N/F NEW LONDON CEMETERY ASSOCIATION

TYPE 'C' CATCH BASIN
(4' SUMP) - 0' - 10' DEEP
STA. 19+00.00
OFFSET: 17.00' LT
T.F.=191.55'
12" RCP INV (W OUT)=188.88'

12" R.C. PIPE (CLASS V) - 0' - 10' DEEP
28 LF

REMOVE DRAINAGE STRUCTURE -
0' - 10' DEEP

REMOVE EXISTING PIPE - 0' - 10'
DEEP

CB TF=188.95
INV=186.40

CONC. SIDEWALK

GRAN. CURB

WROUGHT IRON FENCE

CHIMNEY

16+00 17+00 18+00 19+00 20+00 21+00

JEFFERSON AVENUE

STONE WALL

CB TF=194.80
INV=191.50,NW
INV=191.25,SE

CB TF=189.14
INV=185.54,SE
INV=185.74,NW
INV=186.02,NE

GRADING LIMIT LINE (TYP.)

REMOVE EXISTING PIPE - 0' - 10'
DEEP

TYPE 'C' CATCH BASIN
(4' SUMP) - 0' - 20' DEEP
STA. 16+00.00
OFFSET: 17.00' RT
T.F.=196.05'
12" RCP INV (N IN)=188.10'
12" RCP INV (E IN)=192.95'
12" RCP INV (S OUT)=188.00'

SEDIMENT CONTROL
SYSTEM AT CATCH BASIN
(TYP.)

REMOVE DRAINAGE STRUCTURE -
0' - 10' DEEP

12" R.C. PIPE - 0' - 10' DEEP
295 LF

REMOVE EXISTING PIPE - 0' - 10'
DEEP

N/F ST. MARY NEW LONDON CEMETERY

TYPE 'C' CATCH BASIN
(4' SUMP) - 0' - 20' DEEP
STA. 19+00.00
OFFSET: 17.00' RT
T.F.=191.55'
12" RCP INV (N IN)=184.40'
12" RCP INV (E IN)=188.45'
15" RCP INV (S OUT)=184.05'

SEDIMENT CONTROL
SYSTEM AT CATCH BASIN
(TYP.)

REMOVE DRAINAGE STRUCTURE -
0' - 10' DEEP

15" R.C. PIPE - 0' - 10' DEEP
295 LF

SEE SHEET EXC-03 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-03 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-03 FOR CONSTRUCTION PLAN
SEE SHEET PVT-03 FOR PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-03 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

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CITY OF NEW LONDON

GRADING, DRAINAGE, AND EROSION SEDIMENTATION CONTROL PLAN

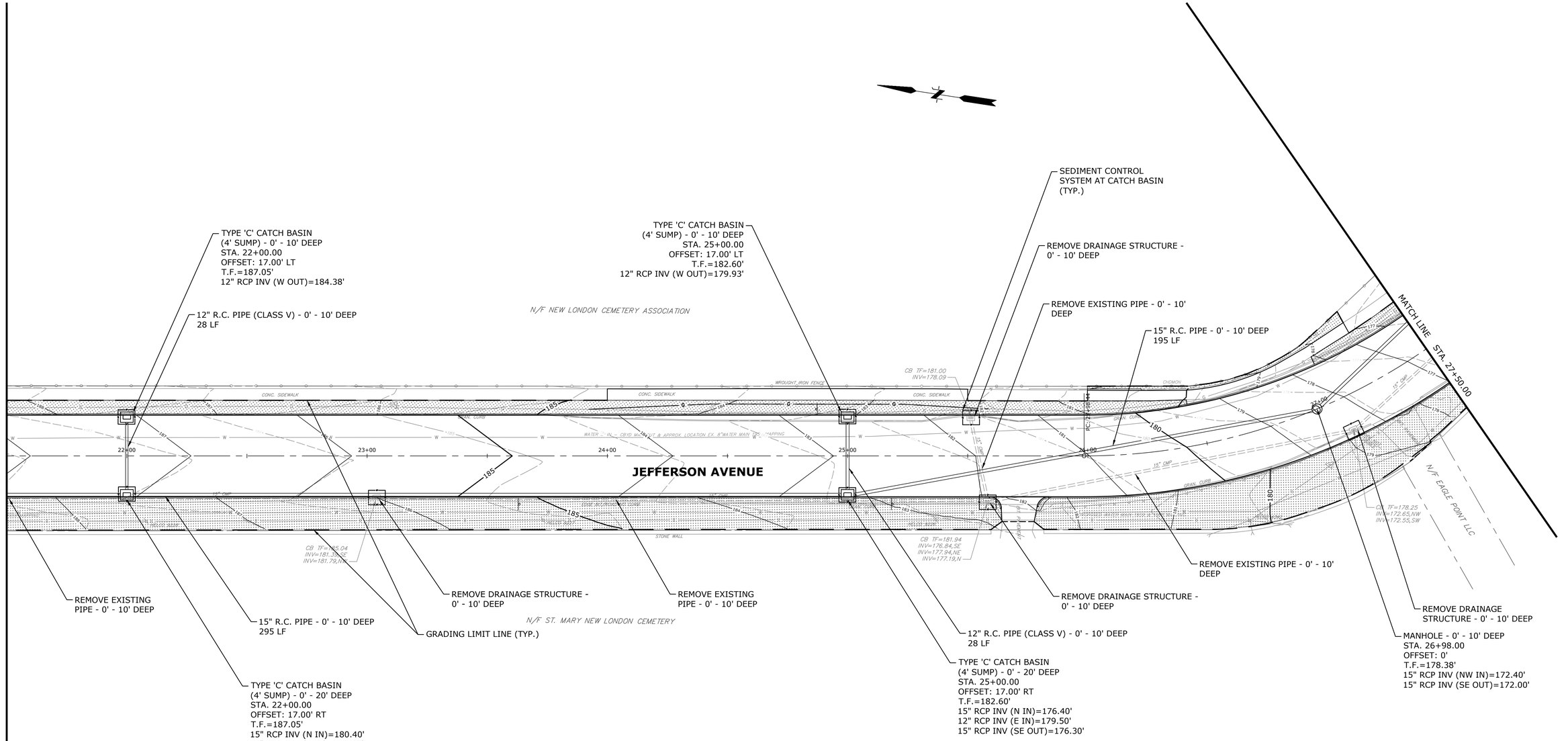
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

GRA-03

File Path: J:\DWG\P2017\0353\A20\Civil\Plan\20170353A20_GRA01.dwg Layout: GRA-03 Plotted: Thu, January 27, 2022 - 11:28 AM User: stanski
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LAYER STATE:
MS VIEW:



SEE SHEET EXC-04 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-04 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-04 FOR CONSTRUCTION PLAN
SEE SHEET PVT-04 FOR PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-04 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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GRADING, DRAINAGE, AND EROSION SEDIMENTATION CONTROL PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
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GRA-04

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MS VIEW:

MATCH LINE STA. 27+50.00

15" R.C. PIPE - 0' - 10' DEEP
94 LF

TYPE 'C' CATCH BASIN DOUBLE GRATE - TYPE II (4' SUMP) - 0' - 20' DEEP
STA. 28+00.00
OFFSET: 17.00' LT
T.F.=174.35'
15" RCP INV (NW IN)=169.10'
18" RCP INV (SE OUT)=168.75'

TREE PROTECTION (TYP.)

GRADING LIMIT LINE (TYP.)

REMOVE EXISTING PIPE - 0' - 10' DEEP

N/F ST. MARY NEW LONDON CEMETERY

REMOVE DRAINAGE STRUCTURE - 0' - 10' DEEP

18" R.C. PIPE - 0' - 10' DEEP
100 LF

TYPE 'C' CATCH BASIN DOUBLE GRATE - TYPE II (4' SUMP) - 0' - 10' DEEP
STA. 30+40.00
OFFSET: 16.19' LT
T.F.=164.49'
15" RCP INV (SW OUT)=161.57'

SEDIMENT CONTROL SYSTEM AT CATCH BASIN (TYP.)

15" R.C. PIPE (CLASS V) - 0' - 10' DEEP
9 LF

MANHOLE - 0' - 10' DEEP
STA. 30+40.00
OFFSET: 2.08' LT
T.F.=164.77'
18" RCP INV (NW IN)=160.00'
18" RCP INV (SE OUT)=159.90'
15" RCP INV (NE IN)=161.48'
15" RCP INV (S IN)=161.48'

N/F NEW LONDON CEMETERY ASSOCIATION

RESET MANHOLE (SANITARY SEWER)

18" R.C. PIPE - 0' - 10' DEEP
235 LF

JEFFERSON AVENUE

15" R.C. PIPE (CLASS V) - 0' - 10' DEEP
14 LF

TYPE 'C' CATCH BASIN (4' SUMP) - 0' - 10' DEEP
STA. 30+40.00
OFFSET: 16.49' RT
T.F.=164.49'
15" RCP INV (N OUT)=161.57'

REMOVE EXISTING PIPE - 0' - 10' DEEP

REMOVE DRAINAGE STRUCTURE - 0' - 10' DEEP

FURNISHING AND PLACING TOPSOIL TURF ESTABLISHMENT (TYP.)

OFFSET TYPE 'C' CATCH BASIN (4' SUMP) - 0' - 10' DEEP
SEE CB INLET DETAIL IN MDS PLANS
STA. 31+44.78
OFFSET: 4.90' RT
T.F.=160.95'
18" RCP INV (NW IN)=157.00'
18" RCP INV (E OUT=156.90'

N/F MAUREEN CAMPBELL TRUSTEE

N/F 556 JEFFERSON LLC

TYPE 'C' CATCH BASIN (4' SUMP) - 0' - 10' DEEP
STA. 32+53.12
OFFSET: 23.18' LT
T.F.=158.17'
15" RCP INV (NW OUT)=155.25'

12" R.C. PIPE - 0' - 10' DEEP
6 LF

15" R.C. PIPE - 0' - 10' DEEP
14 LF

MANHOLE (6' DIAMETER) - 0' - 10' DEEP
STA. 32+43.28
OFFSET: 6.75' LT
T.F.=158.45'
12" RCP INV (SW IN)=154.00'
18" RCP INV (W IN)=154.40'
12" RCP INV (SE IN)=154.80'
24" RCP INV (E OUT)=152.50'
15" RCP INV (NE IN)=155.00'

REMOVE DRAINAGE STRUCTURE - 0' - 10' DEEP

REMOVE EXISTING PIPE - 0' - 10' DEEP

18" R.C. PIPE - 0' - 10' DEEP
94 LF

24" R.C. PIPE - 0' - 10' DEEP
190 LF

REMOVE EXISTING PIPE - 0' - 10' DEEP

SEDIMENT CONTROL SYSTEM - SILT SOCK (TYP.)

JEFFERSON AVENUE

GRADING LIMIT LINE (TYP.)

N/F CITY OF NEW LONDON HIGH SCHOOL

FURNISHING AND PLACING TOPSOIL TURF ESTABLISHMENT (TYP.)

TYPE 'C' CATCH BASIN (4' SUMP) - 0' - 10' DEEP
SEE CB INLET DETAIL IN MDS PLANS
STA. 1+54.46
OFFSET: 10.92' RT
T.F.=158.34'
12" RCP INV (NW OUT)=155.00'

12" R.C. PIPE - 0' - 10' DEEP
108 LF

REMOVE EXISTING PIPE - 0' - 10' DEEP

RESET MANHOLE (SANITARY SEWER)

REMOVE DRAINAGE STRUCTURE - 0' - 10' DEEP

N/F KERRI L. SANTANA

TREE PROTECTION (TYP.)

REMOVE DRAINAGE STRUCTURE - 0' - 10' DEEP

REMOVE EXISTING PIPE - 0' - 10' DEEP

TYPE 'C' CATCH BASIN (4' SUMP) - 0' - 10' DEEP
STA. 40+80.62
OFFSET: 18.34' LT
T.F.=159.85'
12" RCP INV (E OUT)=157.15'

RESET MANHOLE (SANITARY SEWER)

FURNISHING AND PLACING TOPSOIL TURF ESTABLISHMENT (TYP.)

CHESTER STREET

TYPE 'C' CATCH BASIN (4' SUMP) - 0' - 10' DEEP
STA. 41+14.82
OFFSET; 16.33' RT
T.F.=159.61'
12" RCP INV (W IN)=156.30'
12" RCP INV (NE OUT)=156.20'

BEGIN FULL DEPTH RECONSTRUCTION STA 41+00.00

12" R.C. PIPE (CLASS V) - 0' - 10' DEEP
44 LF

CUT BITUMINOUS CONCRETE PAVEMENT

BEGIN FULL DEPTH RECONSTRUCTION ON WEST SIDE STA 40+05.00

MATCH LINE STA. 34+00.00

MATCH LINE STA. 40+00.00

LEGEND:

- STAMPED CONCRETE (TRUCK APRON OR SPLITTER ISLAND & SNOW SHELF)
- FURNISHING AND PLACING TOPSOIL TURF ESTABLISHMENT

SEE SHEET EXC-05 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-05 FOR ALIGNMENT & CURB TIE PLAN
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SEE SHEET UTL-05 FOR UTILITY PLAN

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CITY OF NEW LONDON

GRADING, DRAINAGE, AND EROSION SEDIMENTATION CONTROL PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

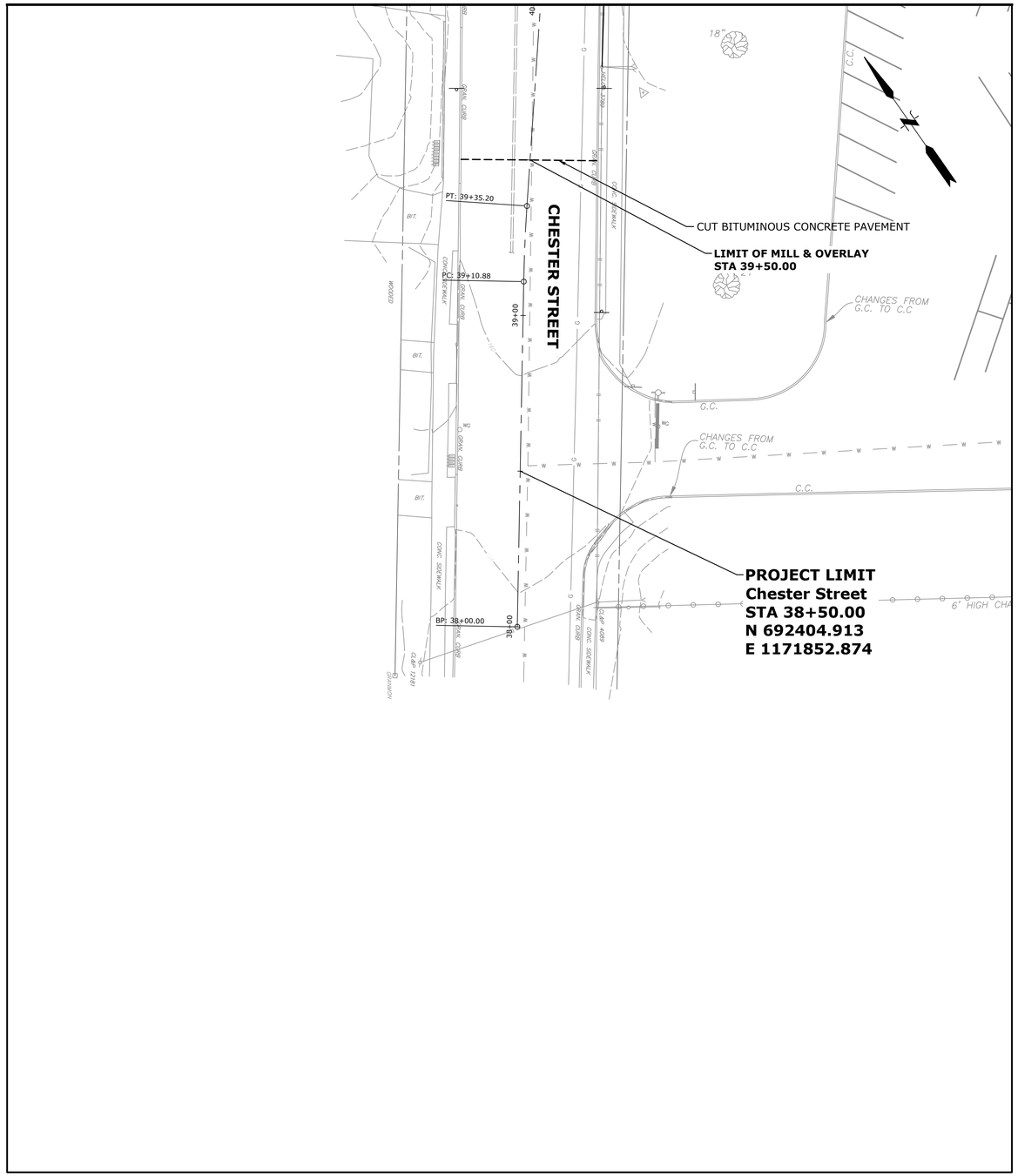
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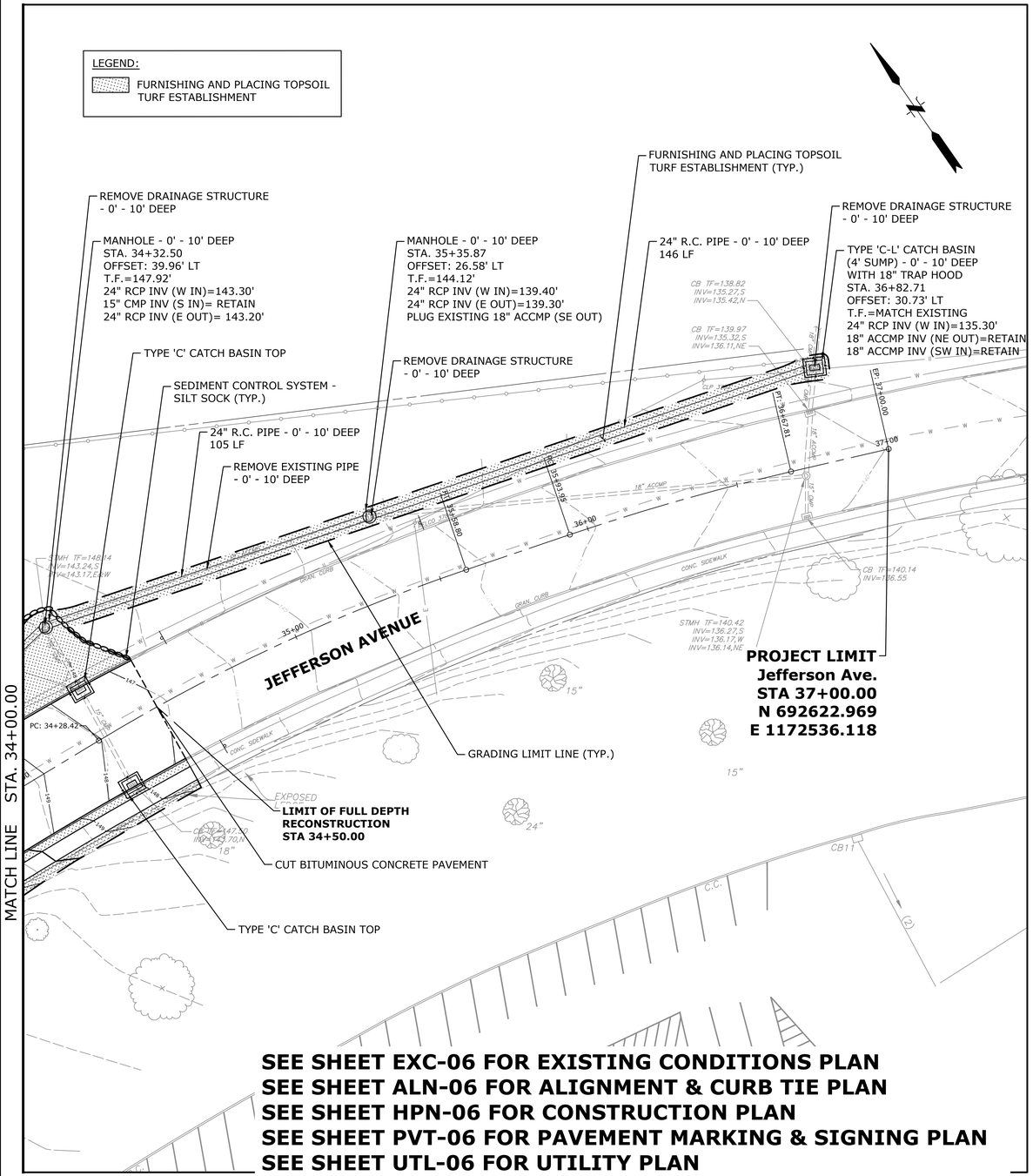
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GRA-05

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MATCH LINE STA. 40+00.00





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CITY OF NEW LONDON

GRADING, DRAINAGE, AND EROSION SEDIMENTATION CONTROL PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
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GRA-06

LEGEND:

- STAMPED CONCRETE (TRUCK APRON OR SPLITTER ISLAND & SNOW SHELF)
- FURNISHING AND PLACING TOPSOIL TURF ESTABLISHMENT

B.M. #1053/55
CHISELED SQUARE
CONC. BASE
ELEV.=161.94

JEFFERSON AVENUE

JEFFERSON AVENUE

CHESTER STREET

BIT. PAVEMENT

SPAN POLE

GRAN. CURB

CONC. SIDEWALK

WATER MAIN — CB — CATCH BASIN

WATER SERVICE MH
(VALVE PIT)

ABANDONED
SPAN POLE
FOUNDATION

TELE.HH

GRAVEL

WATER
METER PIT

UTIL. CONTROL BOX

N/F CITY OF NEW LONDON
HIGH SCHOOL

N/F 556 JE

N/F KERRI L. SANTANA

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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CITY OF NEW LONDON

ROUNDABOUT GRADING PLAN

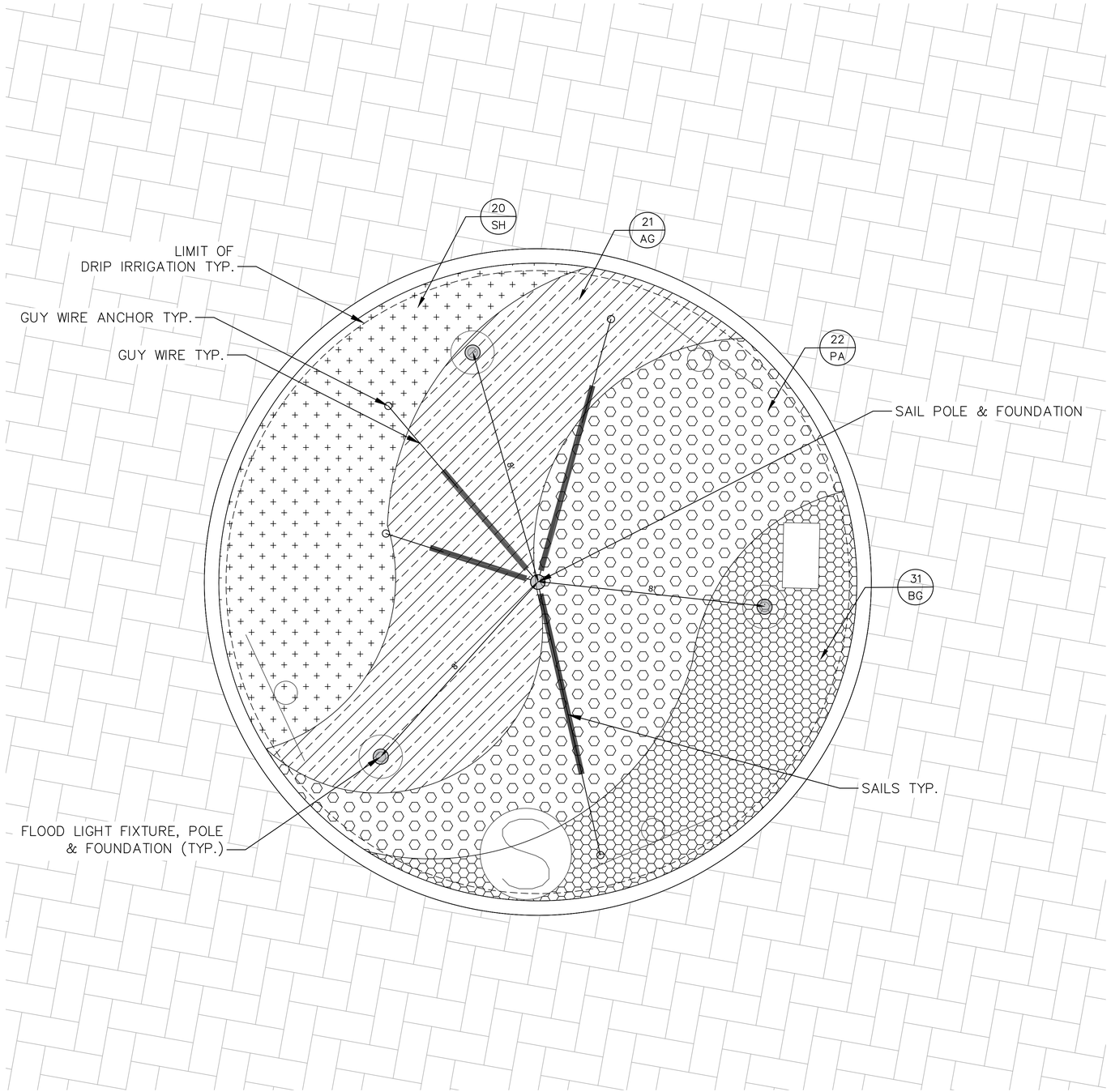
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NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

GRA-07

File Path: J:\DWG\P20170353A20\Civil\Plan\20170353A20_GRA02.dwg Layout: GRA-07 Plotted: Thu, January 27, 2022 - 11:33 AM User: stanski
Plotter: DWG TO PDF.PC3 CTB File: FO.STB
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PLANTING NOTES:

1. ALL PLANTING MATERIAL TO BE NURSERY GROWN STOCK SUBJECT TO A.A.N. STANDARDS.
2. THE CONTRACTOR SHALL SUPPLY ALL PLANTS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND LISTED IN THE PLANT LIST. IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT LIST AND THOSE REQUIRED BY THE DRAWINGS, THE LARGER NUMBER SHALL APPLY.
3. ALL PLANTS SHALL BE APPROVED PRIOR TO INSTALLATION AND SHALL BE LOCATED ON SITE BY THE CONTRACTOR FOR THE APPROVAL OF THE LANDSCAPE ARCHITECT. ANY INSTALLATIONS WHICH WERE NOT APPROVED BY THE LANDSCAPE ARCHITECT AND WHICH ARE SUBSEQUENTLY REQUESTED TO BE MOVED WILL BE DONE AT THE CONTRACTORS EXPENSE.
4. PRECISE LOCATION OF ITEMS NOT DIMENSIONED ON THE PLAN ARE TO BE FIELD STAKED BY THE CONTRACTOR AND SHALL BE SUBJECT TO THE REQUIREMENTS SPECIFIED IN THE PREVIOUS NOTE.
5. ALL SHRUB MASSINGS AND TREE PITS SHALL BE MULCHED TO A DEPTH OF 3" WITH SHREDDED CEDAR BARK MULCH.
6. TREES SHALL NOT BE STAKED UNLESS OTHERWISE NOTED.
7. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGED VEGETATION AND SHALL REPLACE OR REPAIR ANY DAMAGED MATERIAL, AT HIS OWN EXPENSE. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 PRIOR TO CONSTRUCTION.
8. ALL SHRUB AND GROUNDCOVER PLANTING AREAS SHALL HAVE CONTINUOUS BEDS OF TOPSOIL 12" DEEP. ALL SOD AND HYDROSEED AREAS SHALL HAVE A MINIMUM TOPSOIL BED OF 6".
9. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES IN THE FIELD. WHERE PLANT MATERIAL MAY INTERFERE WITH UTILITIES, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT TO COORDINATE THEIR INSTALLATION.
10. FOR PLANTING SOIL MIX, SEE SPECIFICATIONS OR PLANTING DETAILS.
11. ALL EXISTING RILL, GULLY OR CHANNEL EROSION SHALL BE FILLED WITH APPROPRIATE BACKFILL MATERIAL, FINE RAKED, SCARIFIED AND STABILIZED WITH APPROPRIATE VEGETATIVE MATERIAL AND / OR APPROPRIATE SEDIMENTATION AND EROSION CONTROL MEASURES.
12. ADJUSTMENTS IN THE LOCATION OF THE PROPOSED PLANT MATERIAL AS A RESULT OF EXISTING VEGETATION TO REMAIN SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
13. THE CONTRACTOR IS RESPONSIBLE FOR ALL MAINTENANCE REPAIR AND REPLACEMENT OF PLANT MATERIAL, AS REQUIRED, FOR THE DURATION OF THE PROJECT AND SUBSEQUENT WARRANTY PERIOD.
14. PLANTINGS INSTALLED IN THE DRY SUMMER MONTHS AND / OR LAWN SEEDED OUT OF SPRING OR FALL PERIODS, IF ALLOWED BY OWNER, WILL REQUIRE AGGRESSIVE IRRIGATION PROGRAMS AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE DIRECTED BY THE OWNER.
15. UPON COMPLETION OF PLANTING, REMOVE FROM SITE ALL EXCESS SOIL, MULCH, AND MATERIALS AND DEBRIS RESULTING FROM WORK OPERATIONS. CLEAN UP SHOULD BE COMPLETED AT THE END OF EACH WORKING DAY. RESTORE TO ORIGINAL CONDITIONS ALL DAMAGED PAVEMENTS, PLANTING AREAS, STRUCTURES AND LAWN AREAS RESULTING FROM LANDSCAPING OPERATIONS.
16. CONTRACTOR SHALL SURVEY, LOCATE, AND PROTECT ALL TREES WITHIN AREAS SHOWN AS "EXISTING VEGETATION TO REMAIN" WITHIN THE DEVELOPMENT ENVELOPE FOR REVIEW BY L.A. PRIOR TO CLEARING OPERATIONS.
17. CONTRACTOR TO RESEED ALL DISTURBED AREAS.

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	PERENNIALS/GRASSES/GROUNDCOVERS			
AG	ANDROPOGON GERARDII 'RED OCTOBER'	RED OCTOBER BIG BLUE STEM	21	2 GAL.
BG	BOUTELOUA GRACILIS	BLUE GRAMA	31	2 GAL.
PA	PENNISETUM ALOPECUROIDES	FOUNTAIN GRASS	22	2 GAL.
SH	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	20	2 GAL.

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CITY OF NEW LONDON

LANDSCAPE PLAN

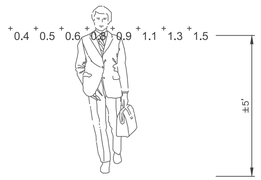
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

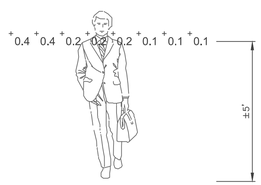
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LND-01

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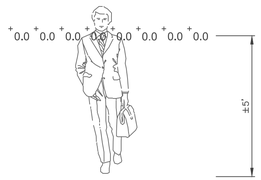
WEST BOUND



EAST BOUND

JEFFERSON AVENUE - EAST SIDE OF ROUNDABOUT

N.T.S.



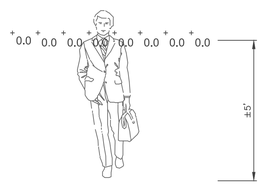
WEST BOUND



EAST BOUND

JEFFERSON AVENUE - WEST SIDE OF ROUNDABOUT

N.T.S.



NORTH BOUND



SOUTH BOUND

CHESTER STREET

N.T.S.

MATCH LINE STA. 27+50.00

MATCH LINE STA. 34+00.00

MATCH LINE STA. 40+00.00

JEFFERSON AVENUE

CHESTER STREET

N/F NEW LONDON CEMETERY ASSOCIATION

N/F CITY OF NEW LONDON HIGH SCHOOL

N/F ST. MARY NEW LONDON CEMETERY

N/F MAUREEN CAIN TRUSTEE

N/F 56 MONTAUK LLC

N/F KERRI L. SANTANA

EXISTING GE EVOLVE 219W LIGHT FIXTURE MOUNTED AT APPROXIMATELY 27'.

SEE JEFFERSON AVENUE WEST BOUND (EAST SIDE OF ROUNDABOUT) FOR VERTICAL PHOTOMETRICS

SEE JEFFERSON AVENUE EAST BOUND (EAST SIDE OF ROUNDABOUT) FOR VERTICAL PHOTOMETRICS

SEE JEFFERSON AVENUE WEST BOUND (WEST SIDE OF ROUNDABOUT) FOR VERTICAL PHOTOMETRICS

EXISTING GE EVOLVE 88W LIGHT FIXTURE MOUNTED AT APPROXIMATELY 27'.

SEE JEFFERSON AVENUE EAST BOUND (WEST SIDE OF ROUNDABOUT) FOR VERTICAL PHOTOMETRICS

EXISTING GE EVOLVE 88W LIGHT FIXTURE MOUNTED AT APPROXIMATELY 27'.

SEE CHESTER STREET NORTH BOUND FOR VERTICAL PHOTOMETRICS

SEE CHESTER STREET SOUTH BOUND FOR VERTICAL PHOTOMETRICS

NOTES:

1. PHOTOMETRICS AND ILLUMINATION SHOWN DEPICT THE EXISTING CONDITIONS OF THE INTERSECTING LIGHTING.
2. SEE DESIGN REPORT FOR ADDITIONAL INFORMATION AND SUMMARY OF RESULTS.
3. THIS SHEET IS FOR INFORMATION ONLY, NO WORK NEEDED FROM THIS SHEET.

SEE SHEET EXC-05 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-05 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-05 FOR CONSTRUCTION PLAN
SEE SHEET GRA-05 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET ELE-01 FOR ELECTRICAL DESIGN PLAN
SEE SHEET PVT-05 FOR PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-05 FOR UTILITY PLAN

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PHOTOMETRIC PLAN - EXISTING CONDITIONS

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
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LUM-01

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MS VIEW: LAYER STATE:

WEST BOUND

EAST BOUND

JEFFERSON AVENUE - EAST SIDE OF ROUNDABOUT

N.T.S.

WEST BOUND

EAST BOUND

JEFFERSON AVENUE - WEST SIDE OF ROUNDABOUT

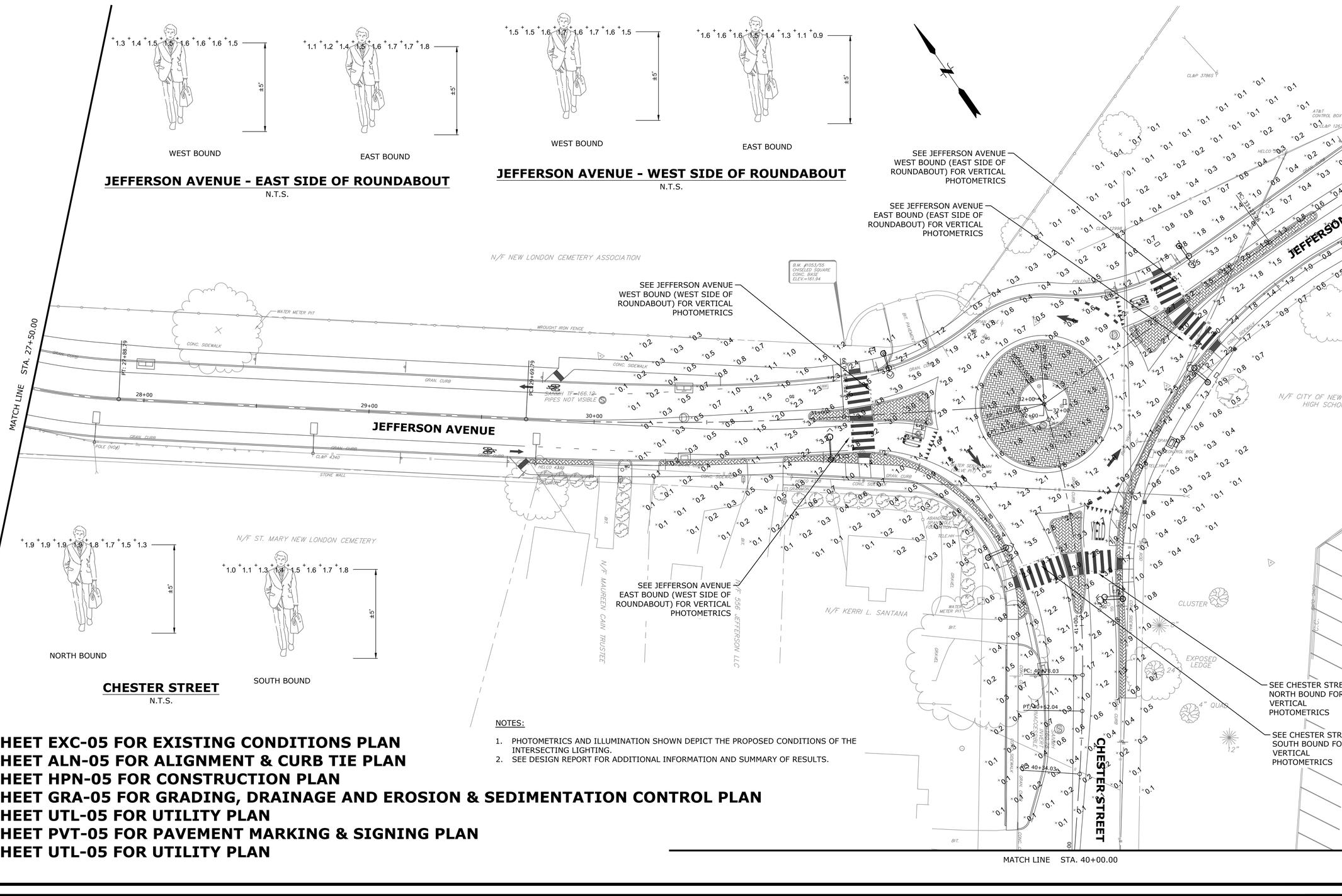
N.T.S.

NORTH BOUND

SOUTH BOUND

CHESTER STREET

N.T.S.



NOTES:

1. PHOTOMETRICS AND ILLUMINATION SHOWN DEPICT THE PROPOSED CONDITIONS OF THE INTERSECTING LIGHTING.
2. SEE DESIGN REPORT FOR ADDITIONAL INFORMATION AND SUMMARY OF RESULTS.

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CITY OF NEW LONDON

PHOTOMETRIC PLAN - PROPOSED CONDITIONS

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

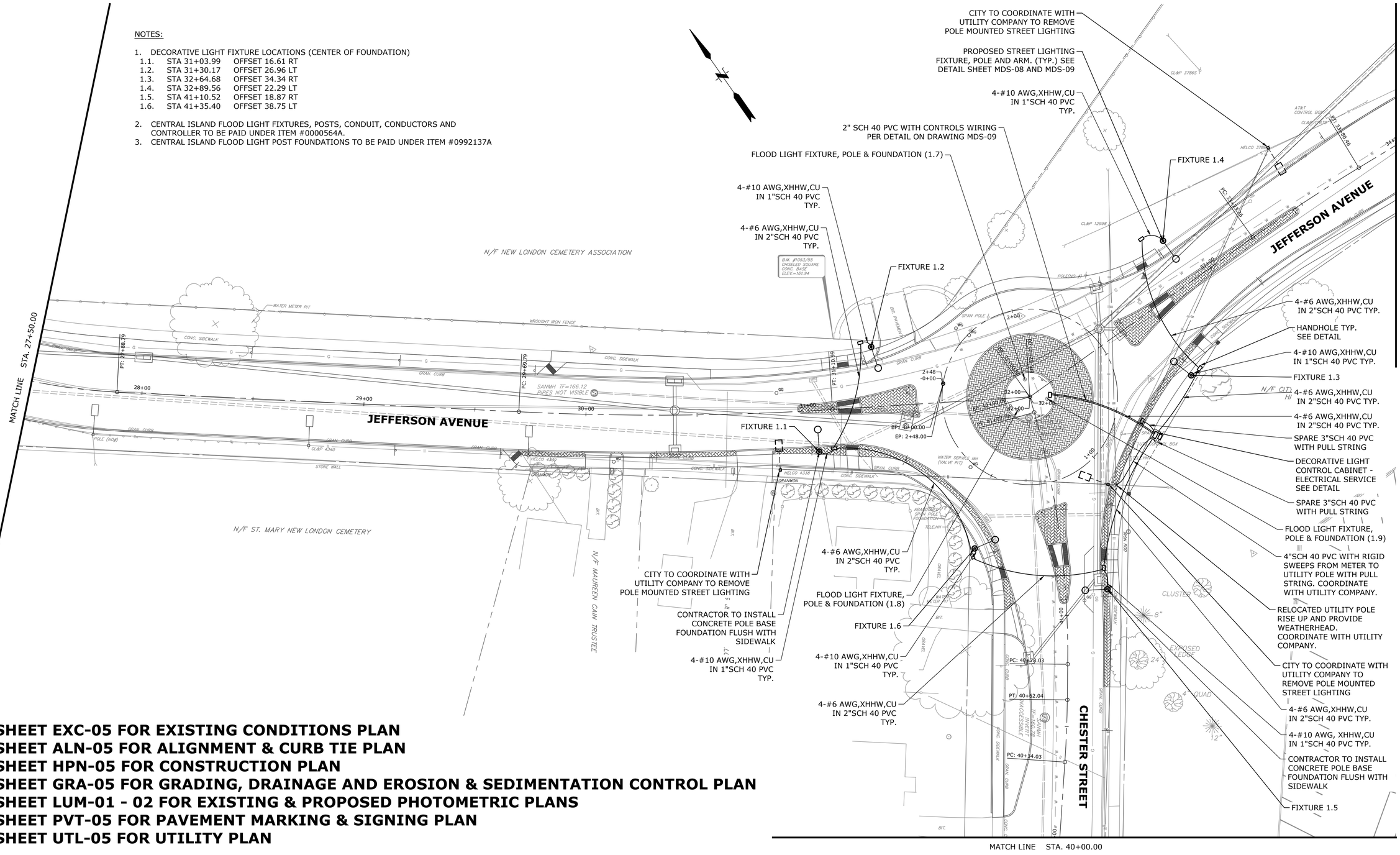
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

LUM-02

NOTES:

1. DECORATIVE LIGHT FIXTURE LOCATIONS (CENTER OF FOUNDATION)
   - 1.1. STA 31+03.99 OFFSET 16.61 RT
   - 1.2. STA 31+30.17 OFFSET 26.96 LT
   - 1.3. STA 32+64.68 OFFSET 34.34 RT
   - 1.4. STA 32+89.56 OFFSET 22.29 LT
   - 1.5. STA 41+10.52 OFFSET 18.87 RT
   - 1.6. STA 41+35.40 OFFSET 38.75 LT
2. CENTRAL ISLAND FLOOD LIGHT FIXTURES, POSTS, CONDUIT, CONDUCTORS AND CONTROLLER TO BE PAID UNDER ITEM #0000564A.
3. CENTRAL ISLAND FLOOD LIGHT POST FOUNDATIONS TO BE PAID UNDER ITEM #0992137A



SEE SHEET EXC-05 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-05 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-05 FOR CONSTRUCTION PLAN
SEE SHEET GRA-05 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET LUM-01 - 02 FOR EXISTING & PROPOSED PHOTOMETRIC PLANS
SEE SHEET PVT-05 FOR PAVEMENT MARKING & SIGNING PLAN
SEE SHEET UTL-05 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.:
VERT.:
20 10 0 20
GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

CITY OF NEW LONDON

ELECTRICAL DESIGN PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

ELE-01

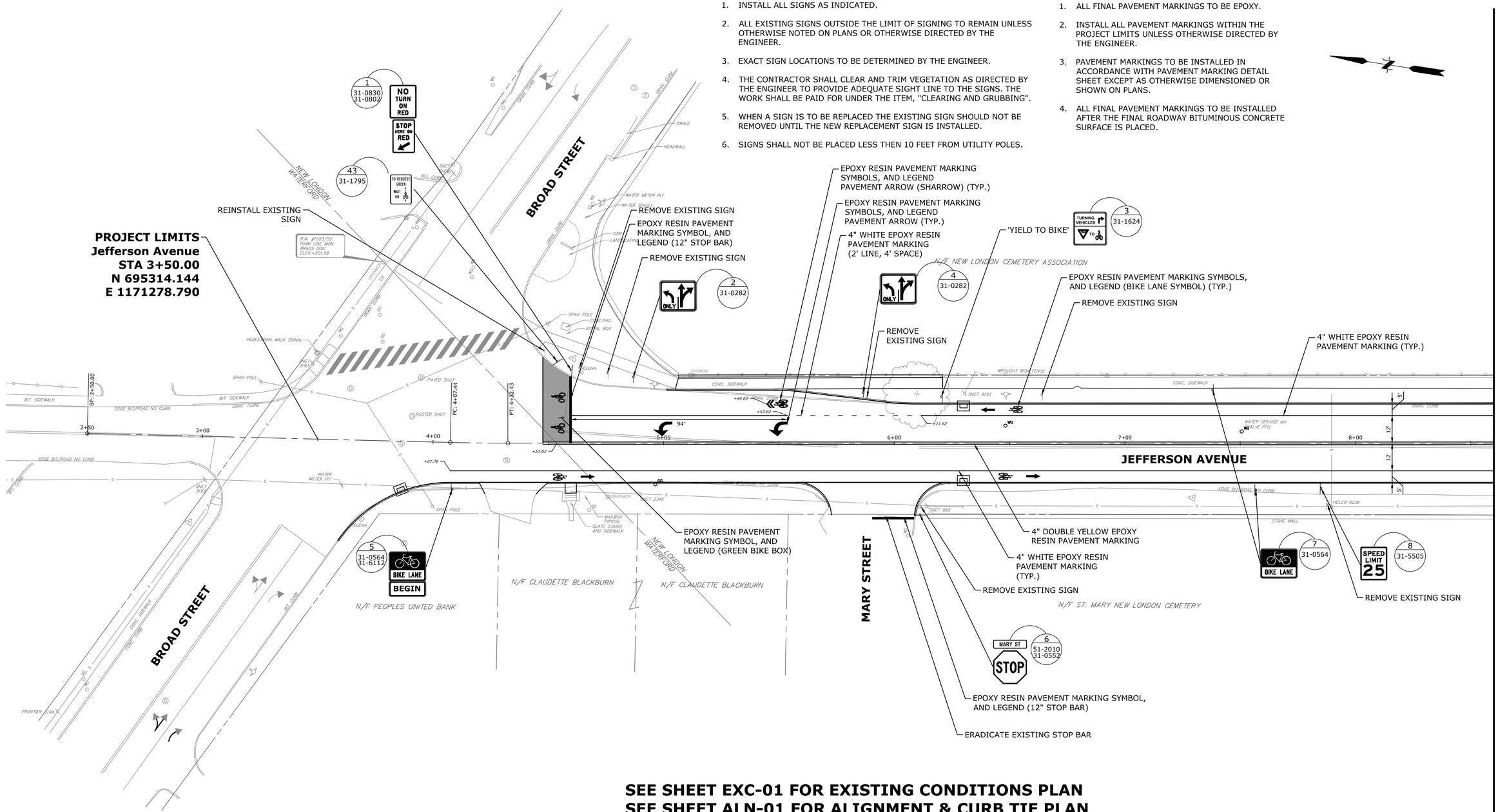
File Path: J:\DWG\P20170353A20\Civil\Plan\20170353A20_ELE01.dwg Layout: ELE-01 Plotted: Tue, January 25, 2022 - 3:48 PM User: stanski
MS VIEW: LAYER STATE: Plotter: DWG TO PDF.PC3 CTB File: FO.STB

SIGNING NOTES:

1. INSTALL ALL SIGNS AS INDICATED.
2. ALL EXISTING SIGNS OUTSIDE THE LIMIT OF SIGNING TO REMAIN UNLESS OTHERWISE NOTED ON PLANS OR OTHERWISE DIRECTED BY THE ENGINEER.
3. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
4. THE CONTRACTOR SHALL CLEAR AND TRIM VEGETATION AS DIRECTED BY THE ENGINEER TO PROVIDE ADEQUATE SIGHT LINE TO THE SIGNS. THE WORK SHALL BE PAID FOR UNDER THE ITEM, "CLEARING AND GRUBBING".
5. WHEN A SIGN IS TO BE REPLACED THE EXISTING SIGN SHOULD NOT BE REMOVED UNTIL THE NEW REPLACEMENT SIGN IS INSTALLED.
6. SIGNS SHALL NOT BE PLACED LESS THEN 10 FEET FROM UTILITY POLES.

PAVEMENT MARKING NOTES:

1. ALL FINAL PAVEMENT MARKINGS TO BE EPOXY.
2. INSTALL ALL PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. PAVEMENT MARKINGS TO BE INSTALLED IN ACCORDANCE WITH PAVEMENT MARKING DETAIL SHEET EXCEPT AS OTHERWISE DIMENSIONED OR SHOWN ON PLANS.
4. ALL FINAL PAVEMENT MARKINGS TO BE INSTALLED AFTER THE FINAL ROADWAY BITUMINOUS CONCRETE SURFACE IS PLACED.



SEE SHEET EXC-01 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-01 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-01 FOR CONSTRUCTION PLAN
SEE SHEET GRA-01 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET UTL-01 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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PAVEMENT MARKING & SIGNING PLAN

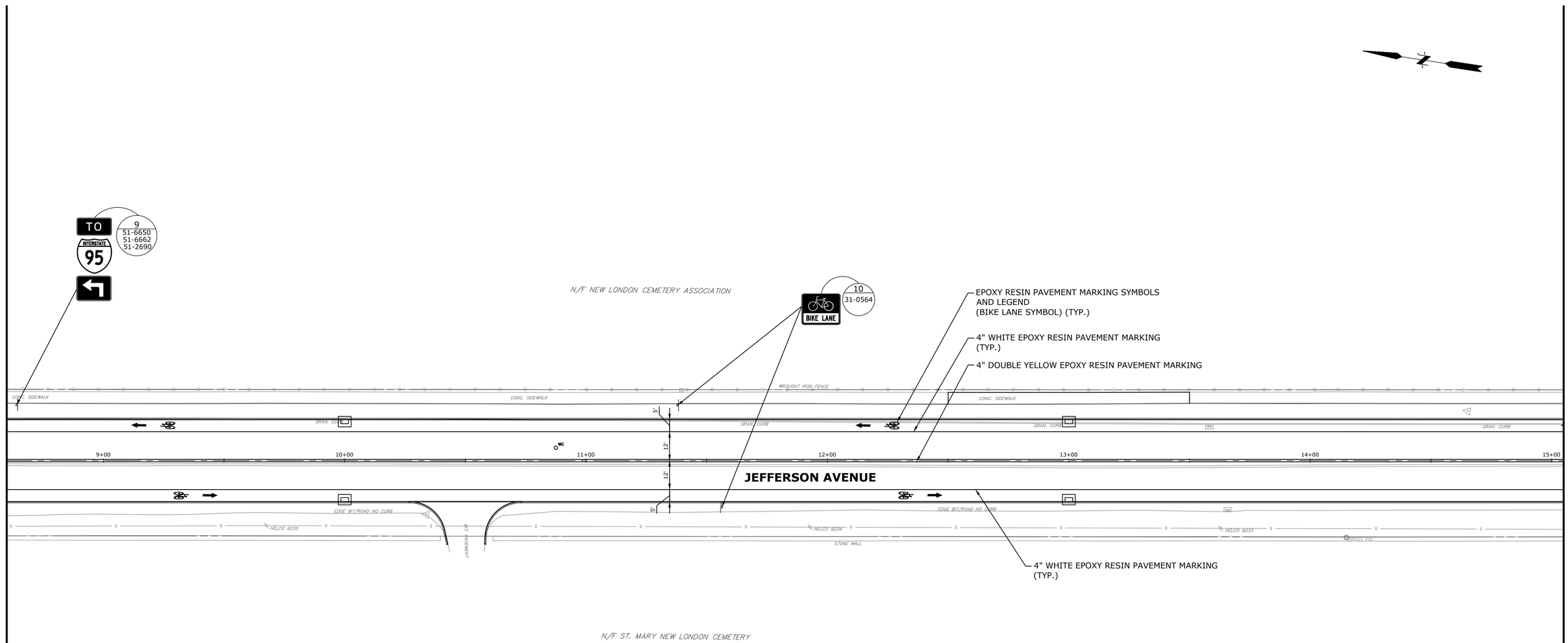
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

PVT-01

File Path: J:\DWG\P2017\0353\A20\Civil\Plan\20170353A20_PVT01.dwg Layout: PVT-01 Plotted: Tue, January 25, 2022 - 3:50 PM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



SEE SHEET EXC-02 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-02 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-02 FOR CONSTRUCTION PLAN
SEE SHEET GRA-02 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET UTL-02 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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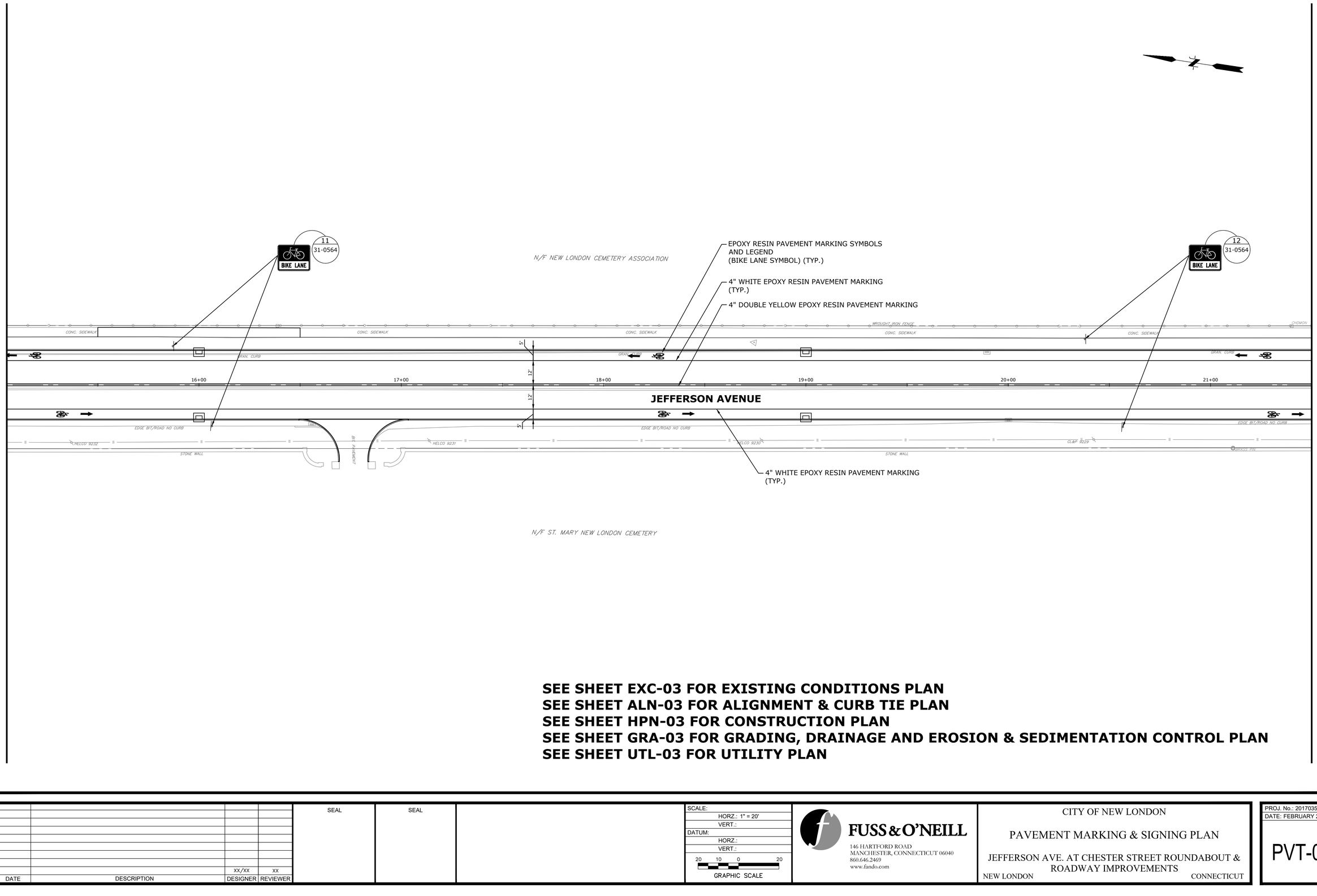
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

PVT-02

File Path: J:\DWG\P2017\0353\A20\Civil\Plan\20170353A20_PVT01.dwg Layout: PVT-02 Plotted: Tue, January 25, 2022 - 3:50 PM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



SEE SHEET EXC-03 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-03 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-03 FOR CONSTRUCTION PLAN
SEE SHEET GRA-03 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET UTL-03 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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PAVEMENT MARKING & SIGNING PLAN

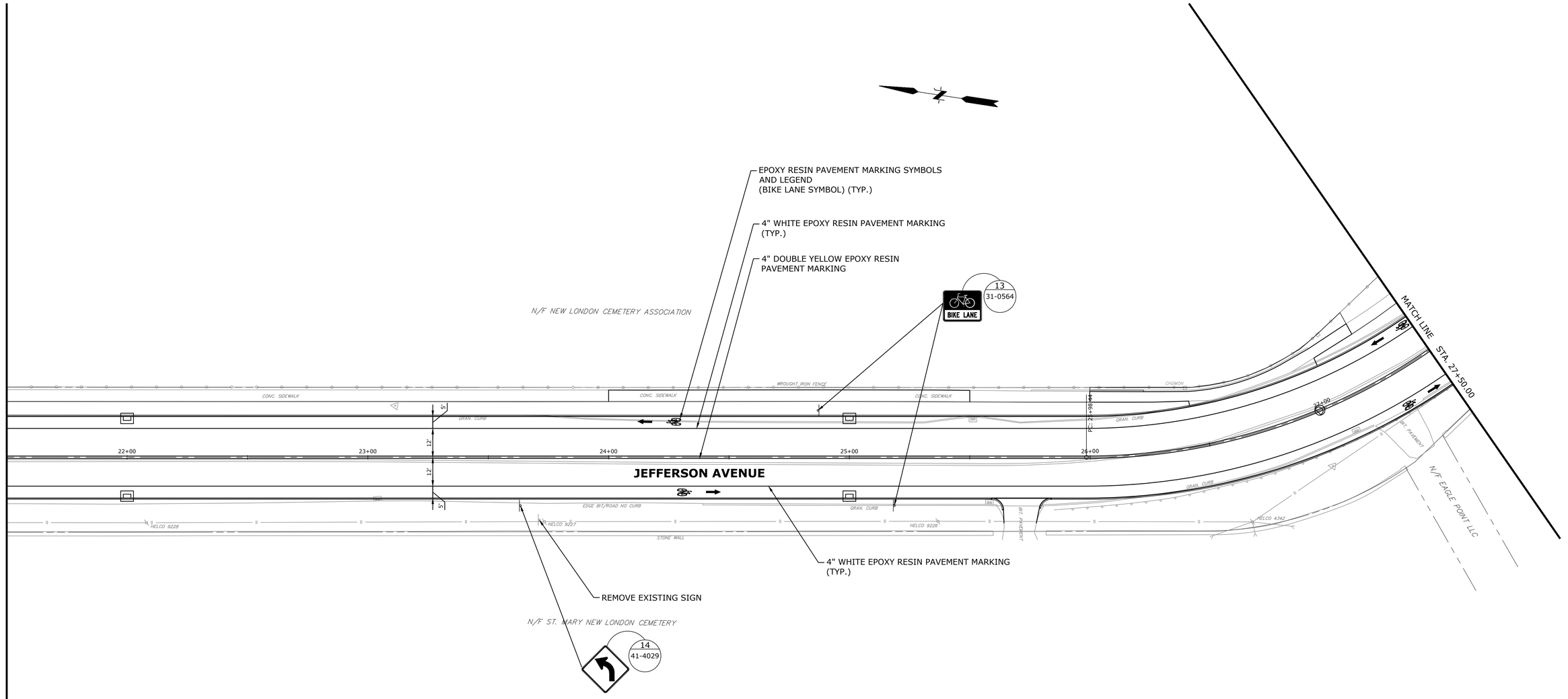
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NEW LONDON CONNECTICUT

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PVT-03

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
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SEE SHEET EXC-04 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-04 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-04 FOR CONSTRUCTION PLAN
SEE SHEET GRA-04 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
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PAVEMENT MARKING & SIGNING PLAN

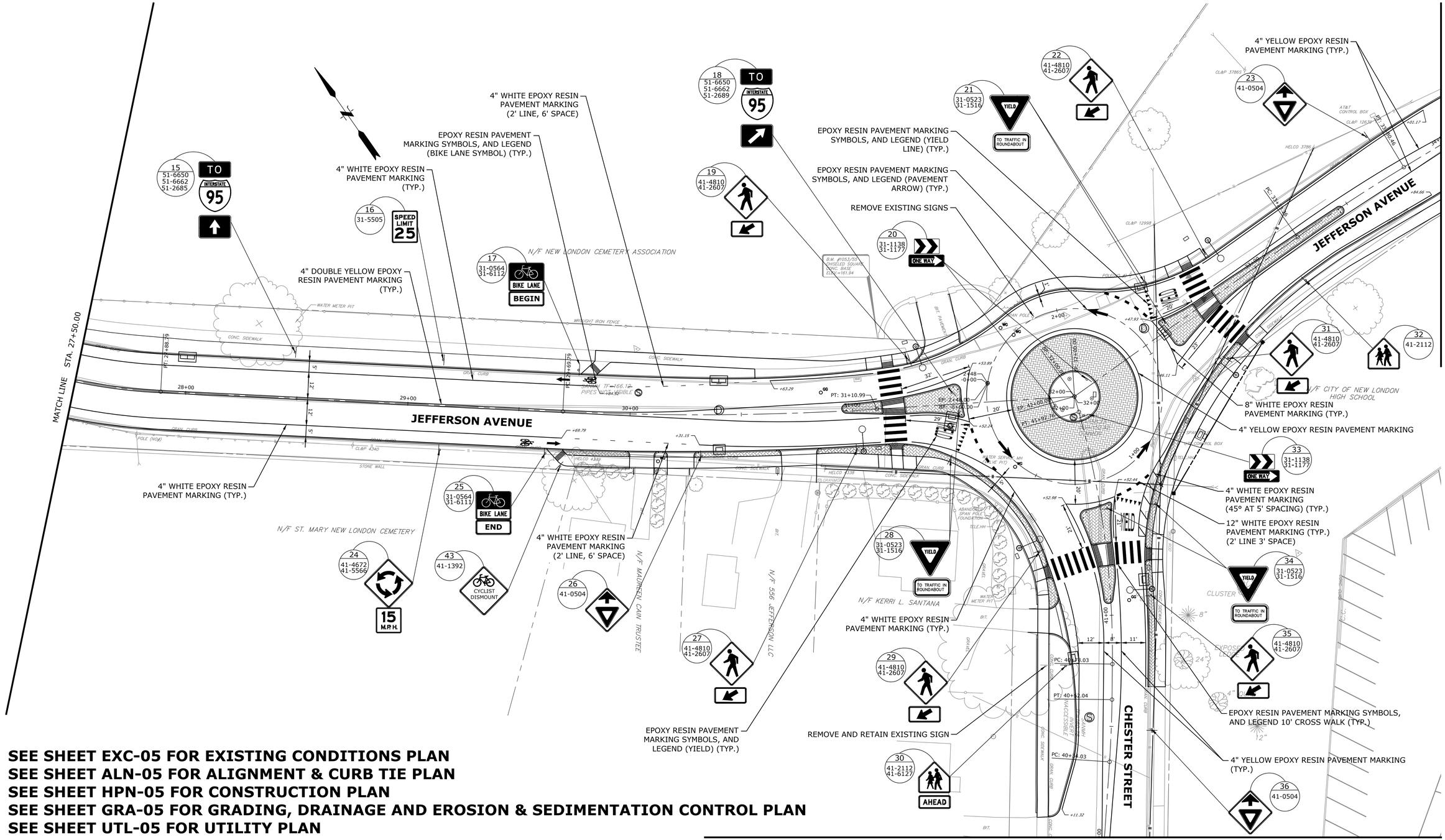
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PVT-04

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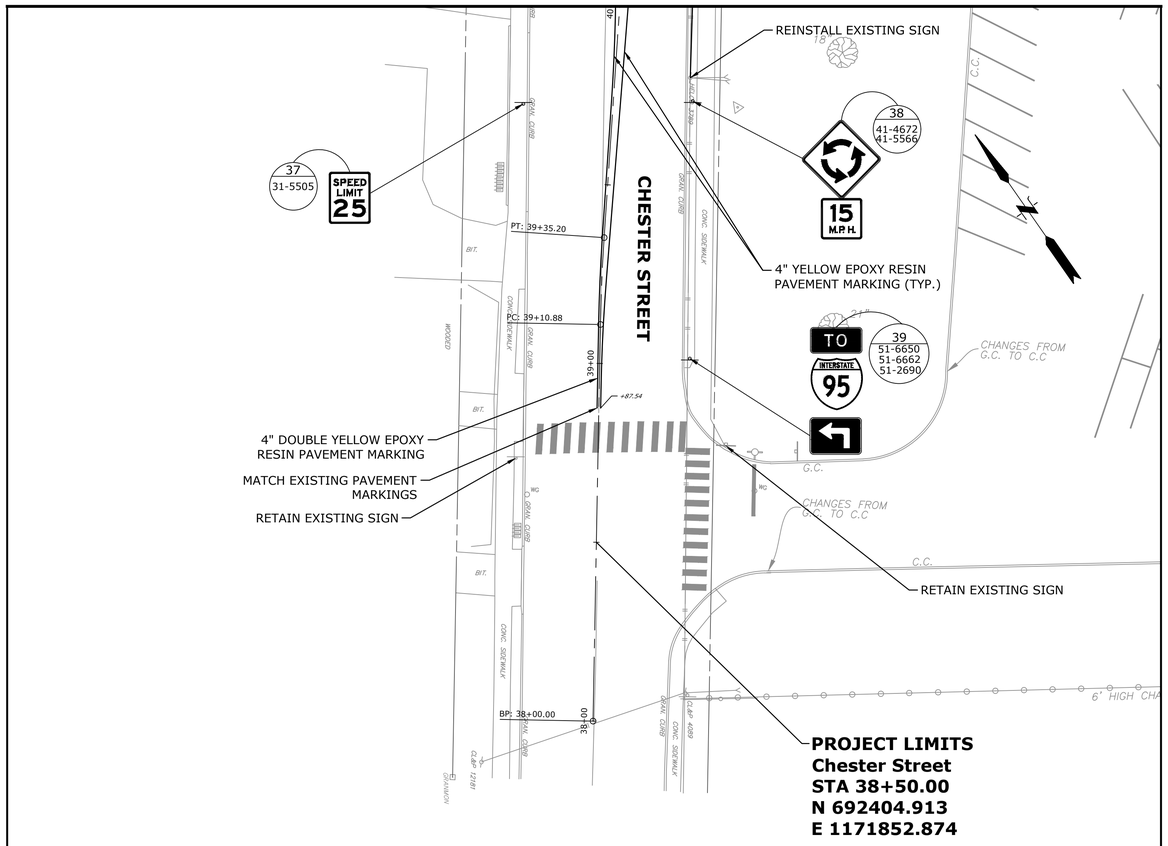
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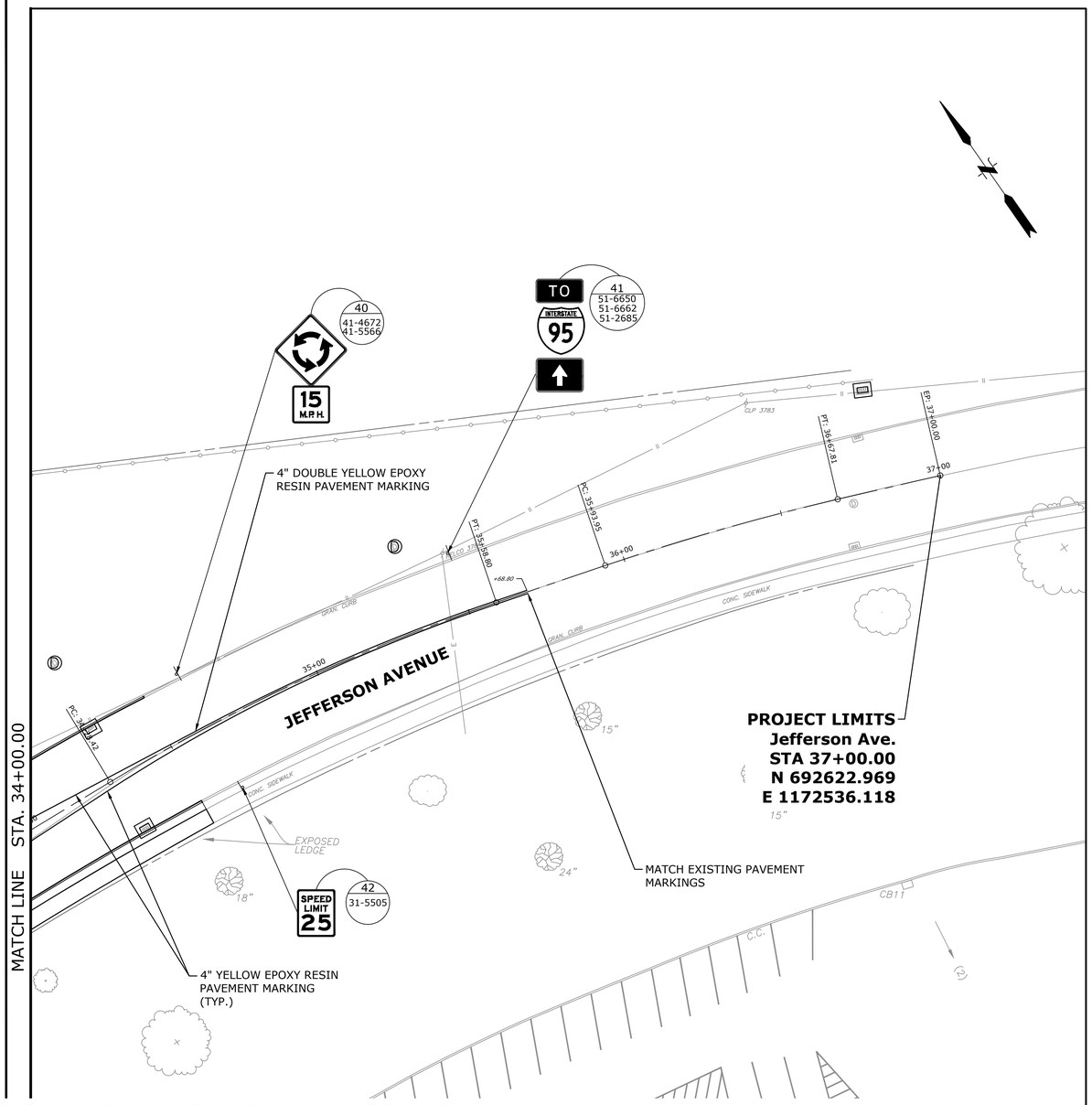
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LAYER STATE:
MS VIEW:

MATCH LINE STA. 40+00.00



MATCH LINE STA. 34+00.00



SEE SHEET EXC-06 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-06 FOR ALIGNMENT & CURB TIE PLAN
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SEE SHEET UTL-06 FOR UTILITY PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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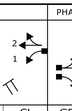
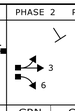
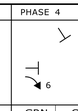
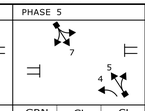
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

PVT-06

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MS VIEW: LAYER STATE:
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

MOVEMENT DIAGRAM

	NTOR	PHASE 1	PHASE 2 PRE-EMPT 1	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	
										
	FLASH	GRN CL CL	GRN CL CL	GRN CL CL	GRN CL CL	GRN CL CL	GRN CL CL	GRN CL CL	GRN CL CL	GRN CL CL
1	R	← ◄Y R	R R R		R R R	R R R				
2	Y	G G G	G Y R		R R R	R R R				
3	Y	R R R	G Y R		R R R	R R R				
4	R	R R R	R R R		← G ◄Y G ③ G ④	G Y R				
5	R	R R R	R R R		G G G	G Y R				
6	Y	R R R	G Y→① R →②		R → R Y▶⑤ R ⑤	R R R				
7	R	R R R	R R R		R R R	G Y R				
8	R	R R R	R R R		R R R	G Y R				
			←YIELD PT.							
MIN GRN		5	15		5	5				
WALK						24				
PED CLR						1				
VEH EXT		1			3	3				
MAX 1		6	20		8	7				
MAX 2		10	18		15	13				
YELLOW		3.0	4.3		3.0	3.0				
RED		1.0	1.5		3.0	3.0				
ADD INIT										
MAX INIT										
TBR										
TTR										
MIN GAP										
MODE		NON-LOCK	MIN RECALL	OFF	LOCK	LOCK	OFF	OFF	OFF	OFF
INT START			THIS PHASE							

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D1	6'X 10'	3	PRESENCE
D1A	6'X 6'	3	PRESENCE
D2	6'X 6'	3	PRESENCE
D2A	6'X 6'	4	PRESENCE
D2B	6'X 6'	4	PRESENCE
D3,D3A	6'X 6'	3	PRESENCE
D3B,D3C	6'X6' QUADRUPOLE	SEE DETAIL	PRESENCE
D4,D4A	6'X 6'	4	PRESENCE

SYSTEM LOC

MASTER 152-214
152-211
152-226
152-225
152-231
152-227
152-241
152-221
152-229
152-228

COORDINATION TYPE: CLOSED LOOP

PROGRAM FUNCTION	PROGRAM TIME	PROGRAM DAYS
FLASH	NONE	
	SEE TECH NOTES	

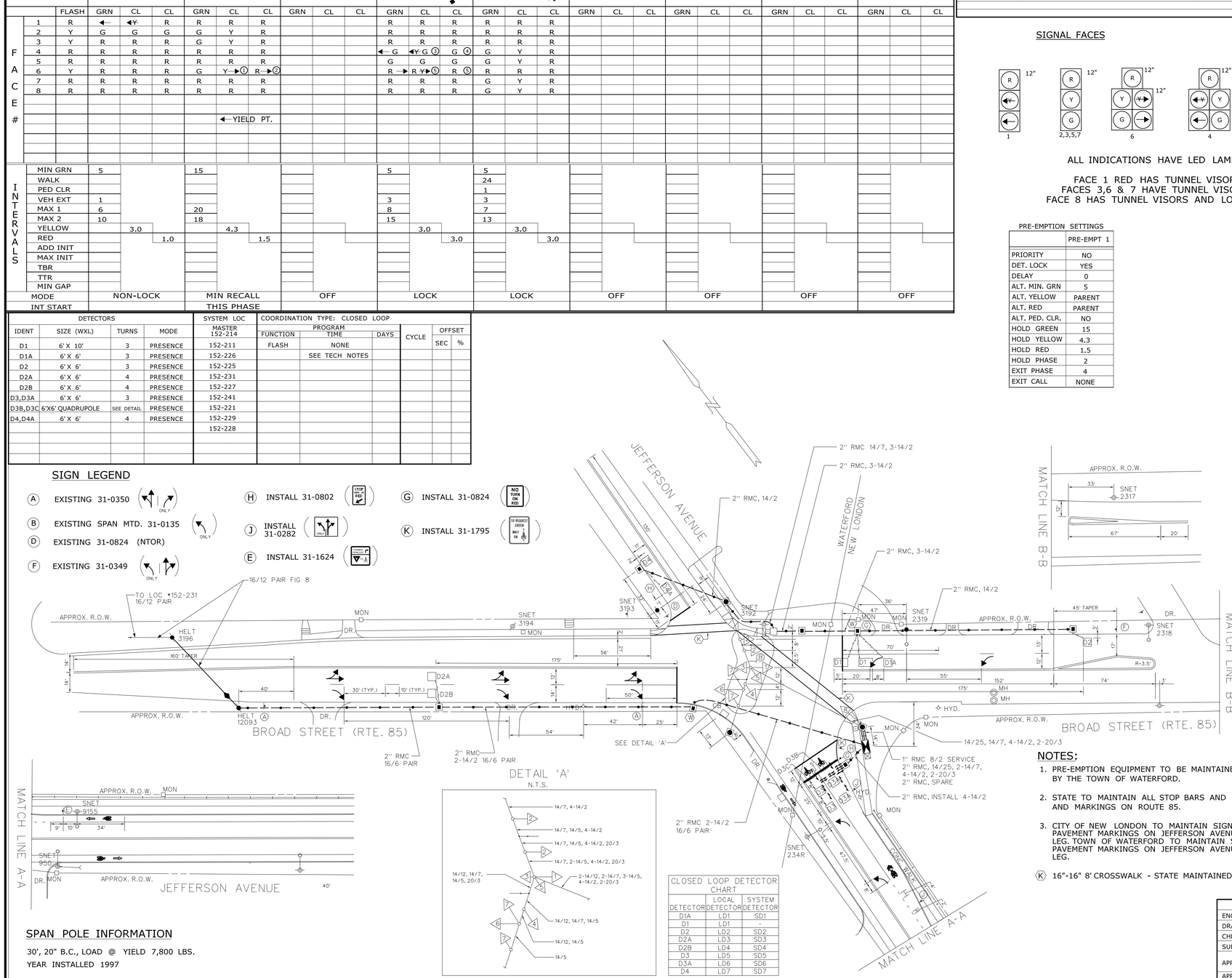
CYCLE	OFFSET SEC	OFFSET %

SIGN LEGEND

- (A) EXISTING 31-0350
- (B) EXISTING SPAN MTD. 31-0135
- (D) EXISTING 31-0824 (NTOR)
- (F) EXISTING 31-0349
- (H) INSTALL 31-0802
- (J) INSTALL 31-0282
- (E) INSTALL 31-1624
- (G) INSTALL 31-0824
- (K) INSTALL 31-1795

SPAN POLE INFORMATION

30', 20" B.C., LOAD @ YIELD 7,800 LBS.
YEAR INSTALLED 1997



DETAIL 'A'
N.T.S.

CLOSED LOOP DETECTOR CHART

DETECTOR	LOCAL DETECTOR	SYSTEM DETECTOR
D1A	LD1	SD1
D1	LD1	-
D2	LD2	SD2
D2A	LD3	SD3
D2B	LD4	SD4
D3	LD5	SD5
D3A	LD6	SD6
D4	LD7	SD7

NO.	DATE	REVISION DESCRIPTION

LEGEND:

R RED	PROPOSED WOOD SPAN POLE	TRAFFIC SIGNAL FACE	PROPOSED CONTROLLER	SIDEWALK RAMP
Y YELLOW	EXISTING WOOD SPAN POLE	PEDESTRIAN SIGNAL FACE	EXISTING CONTROLLER	CABLE CLOSURE
G GREEN	PROPOSED STEEL SPAN POLE	DET. LEADS IN SAW CUT	LOOP DETECTOR	WIRELESS SENSOR
◄R RED ARROW	EXISTING STEEL SPAN POLE	PROPOSED RMC (RIGID METAL CONDUIT)	SD SYSTEM DETECTOR	WIRELESS RECEIVER
◄Y YELLOW ARROW	PROPOSED UTILITY POLE	EXISTING RMC (RIGID METAL CONDUIT)	■ MAGNETIC DETECTOR	WIRELESS TRANSMITTER
← GREEN ARROW	EXISTING UTILITY POLE	AUXILIARY TERMINATION CABINET	OPTICAL DETECTOR	GUY WIRE
WØ WALK/ PED. CLR	PEDESTAL MOUNTING	AUXILIARY EQUIPMENT CABINET	VIDEO DETECTOR	PROPOSED HANDHOLE
D.W. DON'T WALK	PEDESTRIAN PUSH BUTTON & SIGN	VIDEO DETECTION ZONE	AUDIO DETECTOR	EXISTING HANDHOLE
FL. FLASHING	DIRECTIONAL ARW. FOR PUSH BUTTON			

DATE PLOTTED : 5/5/2021 J:\DWG\P2017\0353\A20\Civil\Signal\011_P2_TR_ASSET_152_211.dgn

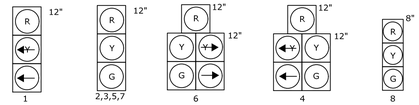
TECHNICAL NOTES

- STANDARD OVERLAP SKIP FEATURES APPLY
- TIMINGS SHOWN REFLECT FREE OPERATION.
- ACTUAL COORDINATION INFORMATION TO BE DETERMINED BY THE CLOSED LOOP LOCAL COORDINATION UNIT.
- (1) TO BE Y IF PHASE 4 IS SKIPPED
- (2) TO BE R IF PHASE 4 IS SKIPPED
- (3) TO BE ◄Y AND Y IF PHASE 5 IS SKIPPED
- (4) TO BE R IF PHASE 5 IS SKIPPED
- (5) TO BE R →▶ IF PHASE 2 IS NEXT
- ARTERY PHASE DETECTION AREAS TO BE NON-ACTUATING DURING COORDINATION.

OFFICE RECORD

REV #	TIR # N/A	SM #	SIGNAL REVISED:
REVISED PAVEMENT MARKINGS AND SIGNS ON JEFFERSON AVENUE PER STATE PROJECT NUMBER L-094-0002. RELOCATED AND RE-INSTALLED DETECTORS D3 AND D3A UNDER ENCROACHMENT PERMIT.			

SIGNAL FACES



ALL INDICATIONS HAVE LED LAMPS

FACE 1 RED HAS TUNNEL VISOR
FACES 3,6 & 7 HAVE TUNNEL VISORS
FACE 8 HAS TUNNEL VISORS AND LOUVERS

PRE-EMPTION SETTINGS

	PRE-EMPT 1
PRIORITY	NO
DET. LOCK	YES
DELAY	0
ALT. MIN. GRN	5
ALT. YELLOW	PARENT
ALT. RED	PARENT
ALT. PED. CLR.	NO
HOLD GREEN	15
HOLD YELLOW	4.3
HOLD RED	1.5
HOLD PHASE	2
EXIT PHASE	4
EXIT CALL	NONE

NOTES:

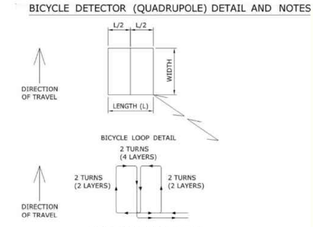
1. PRE-EMPTION EQUIPMENT TO BE MAINTAINED BY THE TOWN OF WATERFORD.
2. STATE TO MAINTAIN ALL STOP BARS AND SIGNS AND MARKINGS ON ROUTE 85.
3. CITY OF NEW LONDON TO MAINTAIN SIGNS AND PAVEMENT MARKINGS ON JEFFERSON AVENUE - SOUTH LEG. TOWN OF WATERFORD TO MAINTAIN SIGNS AND PAVEMENT MARKINGS ON JEFFERSON AVENUE - NORTH LEG.

(K) 16'-16' 8' CROSSWALK - STATE MAINTAINED.

CONSTRUCTION NOTES:

1. ALL MATERIAL AND CONCRSTUCTION METHODS SHALL CONFORM TO THE FOLLOWING CURRENT D.O.T. DOCUMENTS WHICH CAN BE ACCESSED ON THE D.O.T. WEBSITE:
   - STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION,
   - SUPPLEMENTAL SPECIFICATION TO THE STANDARD SPECIFICATION,
   - SPECIAL PROVISIONS TO THE STANDARD SPECIFICATIONS,
   - STANDARD INSTALLATION AND GUIDE DETAIL SHEETS.
2. ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING EXCEPT AS NOTED.
3. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE TOWN OF WATERFORD / CITY OF NEW LONDON PRIOR TO COMMENCING CONSTRUCTION.
5. SEE SEPERATE PLAN FOR PROPOSED PAVEMENT MARKINGS AND SIGNAGE ON JEFFERSON AVE. PER STATE PROJECT NO. L-094-0002.
6. CONTRACTOR TO INSTALL NEW D3, D3A, D3B AND D3C LOOP DETECTORS IN THE JEFFERSON AVE. NB APPROACH LANES AS SHOWN. WIRING SHALL BE REPLACED FROM THE HANDHOLE TO THE CONTROLLER.
7. THE CONTRACTOR SHALL CLEAN BOTH THE EXISTING CONDUIT AND HANDHOLE ASSOCIATED TO THESE NEW LOOPS, SEE SPECIAL PROVISIONS.
8. INSTALL LOOP DETECTORS 3' OFF EDGE OF ROAD AND 8' APART UNLESS OTHERWISE SPECIFIED.
9. CENTER LOOP DETECTORS IN LANE.
10. SERIES SPLICE SEGMENTED LOOPS PER LANE.
11. ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.
12. REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.
13. COORDINATE THIS REVISION WITH CONNECTICUT D.O.T. SIGNAL LAB. CONTRACT MR. DONALD ASSARD (860) 258-0346 OR MR. MARK ZAMPINI (860) 258-0349 AT LEAST 14 DAYS PRIOR TO REVISION.
14. COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.
15. SHOULD THE INTERCONNECT AND CONDUIT BE DISTURBED OR DAMAGED DURING THE FULL DEPTH RECONSTRUCTION PROCESS, CONDUIT MUST BE REPLACED AND NEW INTERCONNECT MUST BE INSTALLED FROM THE CONTROLLER TO THE CABLE CLOSURE ADJACENT TO HELT 12093.

BICYCLE DETECTOR (QUADRUPOLE) DETAIL AND NOTES



BICYCLE LOOP WINDING DETAIL

BICYCLE LOOPS SHALL BE WIRED IN A FIGURE 8 PATTERN WITH A DOUBLE LAYER DESIGN ("2-4-2") WITH 2 TURNS IN THE PERIMETER SLOTS AND 4 TURNS IN THE CENTER SLOT AS SHOWN IN THE WINDING DETAIL.

BICYCLE LOOPS SHALL BE CONNECTED TO A SEPARATE AMPLIFIER CAPABLE OF HIGHER LEVELS OF SENSITIVITY.

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	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER				
DRAWN BY				
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
APPROVED DATE				

REV # INTERSECTION # 152-211

ENERGY BY TOWN	ADDRESS #
MAINT LEVEL 1	SERVICE POLE - # 2319
	UNMETERED SERVICE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ROUTE 85 (BROAD STREET) AT JEFFERSON AVENUE

SCALE 1" = 40'

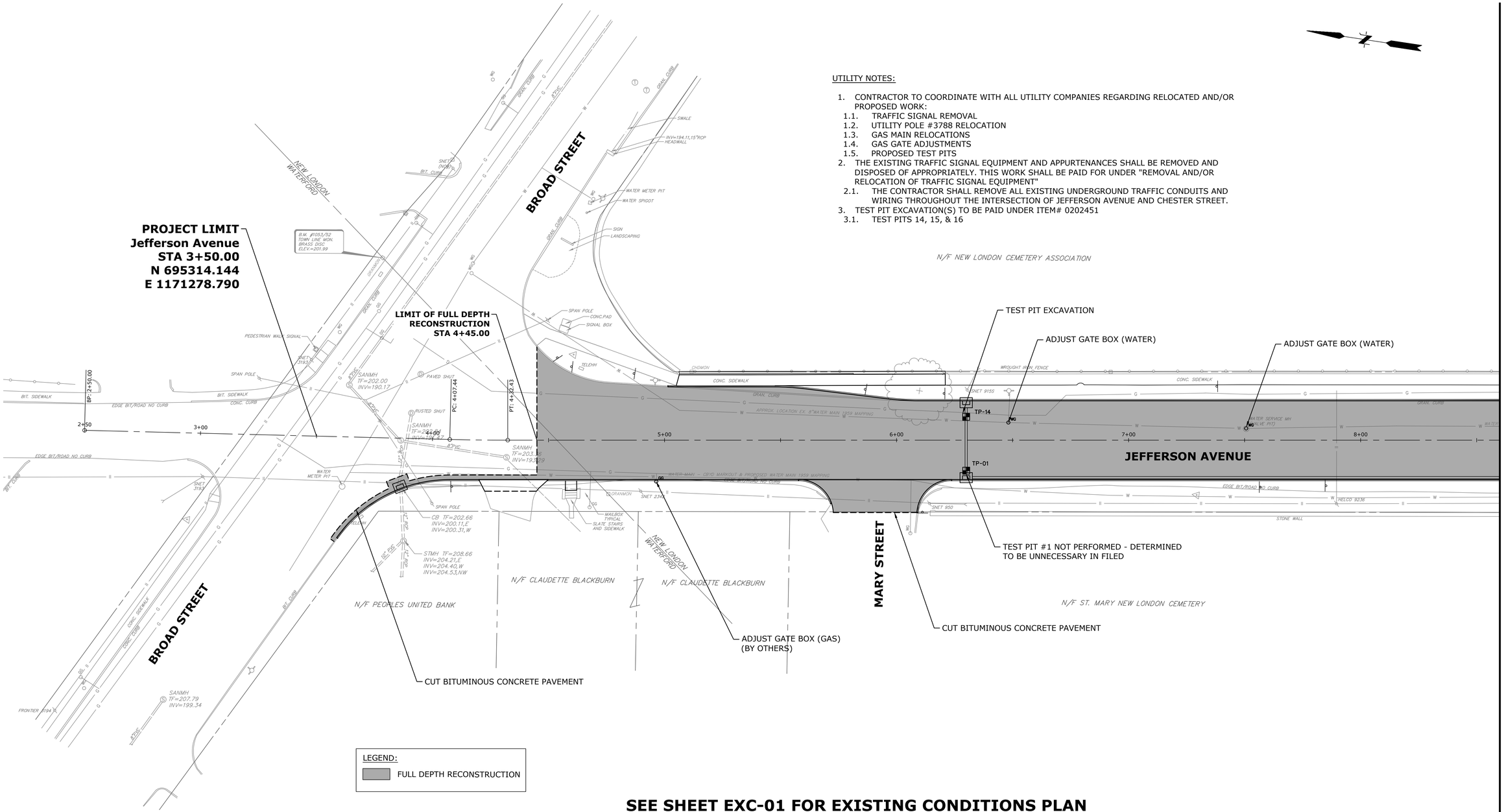
TOWN: **WATERFORD**

PROJECT NO. L-094-0002

DRAWING NO.

SHEET NO.

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**



UTILITY NOTES:

1. CONTRACTOR TO COORDINATE WITH ALL UTILITY COMPANIES REGARDING RELOCATED AND/OR PROPOSED WORK:
   - 1.1. TRAFFIC SIGNAL REMOVAL
   - 1.2. UTILITY POLE #3788 RELOCATION
   - 1.3. GAS MAIN RELOCATIONS
   - 1.4. GAS GATE ADJUSTMENTS
   - 1.5. PROPOSED TEST PITS
2. THE EXISTING TRAFFIC SIGNAL EQUIPMENT AND APPURTENANCES SHALL BE REMOVED AND DISPOSED OF APPROPRIATELY. THIS WORK SHALL BE PAID FOR UNDER "REMOVAL AND/OR RELOCATION OF TRAFFIC SIGNAL EQUIPMENT"
   - 2.1. THE CONTRACTOR SHALL REMOVE ALL EXISTING UNDERGROUND TRAFFIC CONDUITS AND WIRING THROUGHOUT THE INTERSECTION OF JEFFERSON AVENUE AND CHESTER STREET.
3. TEST PIT EXCAVATION(S) TO BE PAID UNDER ITEM# 0202451
   - 3.1. TEST PITS 14, 15, & 16

LEGEND:

FULL DEPTH RECONSTRUCTION

SEE SHEET EXC-01 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-01 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-01 FOR CONSTRUCTION PLAN
SEE SHEET GRA-01 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-01 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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GRAPHIC SCALE

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CITY OF NEW LONDON

UTILITY PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

UTL-01

File Path: J:\DWG\P20170353A20\Civil\Plan\20170353A20_UTL01.dwg Layout: UTL-01 Plotted: Tue, January 25, 2022 - 3:54 PM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

UTILITY TEST PIT DATA							
WATER (VEOLIA / CITY OF NEW LONDON)							
TEST PIT #	BASELINE		NORTHING	EASTING	GROUND ELEVATION (FT)	TOP OF PIPE / UTILITY ELEVATION (FT)	UTILITY DESCRIPTION
	STATION	OFFSET					
TP-02	STA 10+01.84	23.58 RT	694665.96	1171352.08	± 202.82	± 198.82	± 12" MAIN FOUND - D.I. NO MAIN FOUND IN ROAD

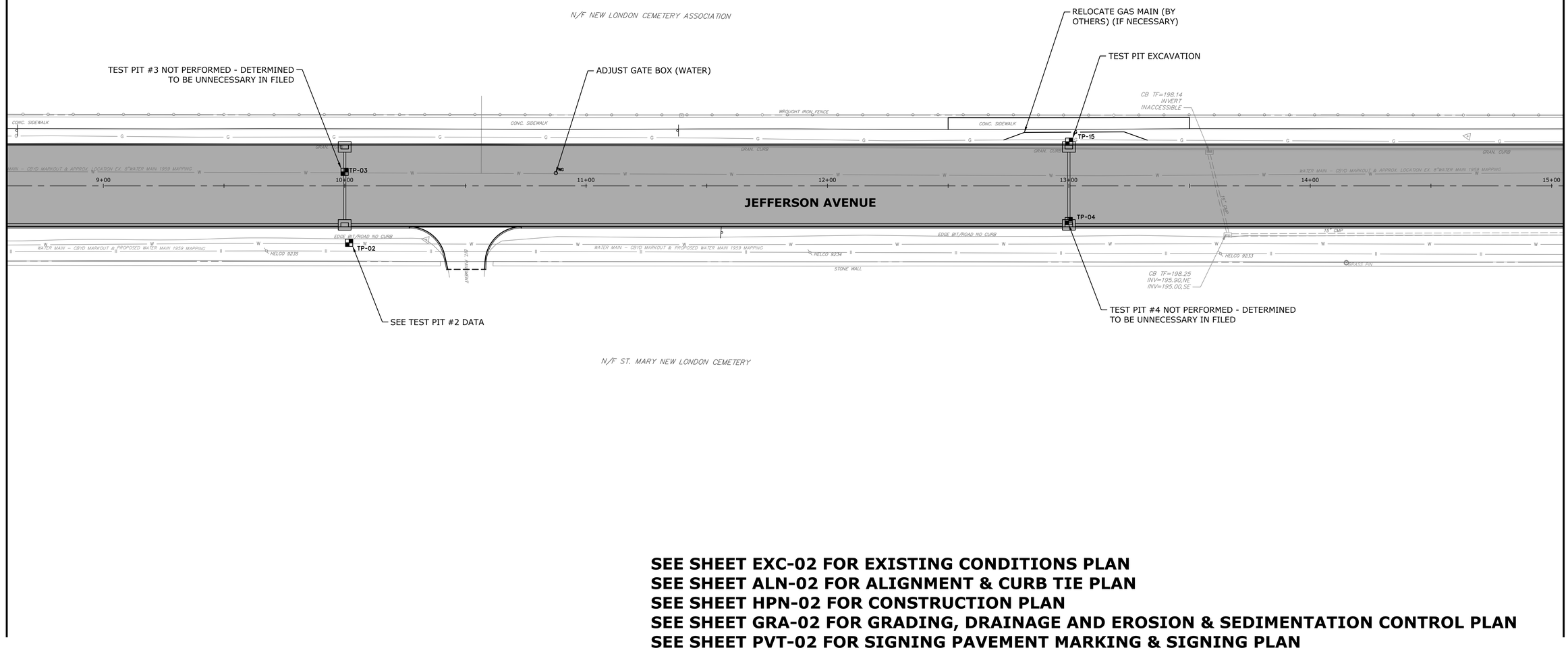
THIS UTILITY INFORMATION IS BASED ON LIMITED FIELD INVESTIGATIONS AND IS PRESENTED FOR INFORMATION PURPOSES ONLY. IN SOME CASES THE FACILITY WAS NOT COMPLETELY EXPOSED TO POSITIVELY VERIFY ITS SIZE OF MATERIAL TYPE. THE CONTRACTOR IS STILL REQUIRED TO COORDINATE ITS CONSTRUCTION ACTIVITIES SO THAT THE UTILITIES ARE PROTECTED AT ALL TIMES.

LEGEND:

FULL DEPTH RECONSTRUCTION

MATCH LINE STA. 8+60.00

MATCH LINE STA. 15+05.00



SEE SHEET EXC-02 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-02 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-02 FOR CONSTRUCTION PLAN
SEE SHEET GRA-02 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-02 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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UTL-02

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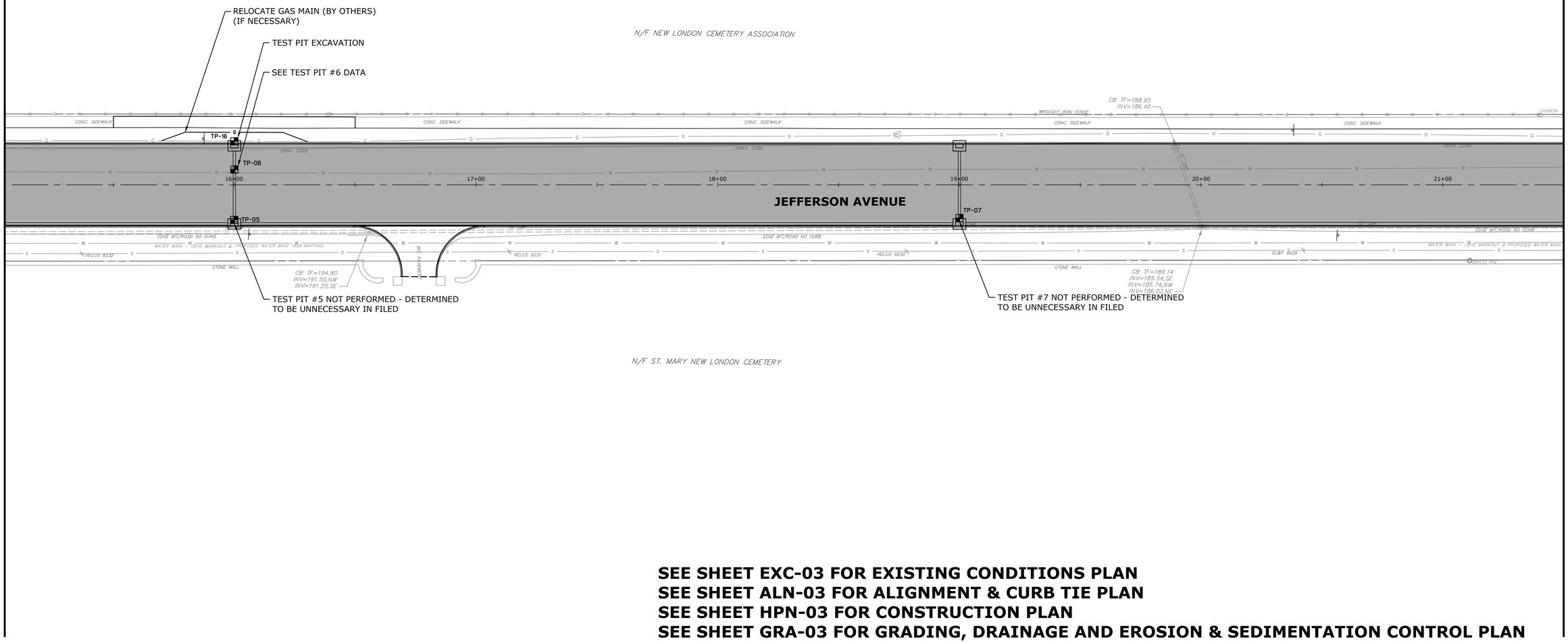
UTILITY TEST PIT DATA							
WATER (VEOLIA / CITY OF NEW LONDON)							
TEST PIT #	BASELINE		NORTHING	EASTING	GROUND ELEVATION (FT)	TOP OF PIPE / UTILITY ELEVATION (FT)	UTILITY DESCRIPTION
	STATION	OFFSET					
TP-06	STA 16+00.05	6.35 LT	694079.12	1171471.92	± 196.04	± 192.04	± 10" MAIN FOUND - D.I.

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LEGEND:
FULL DEPTH RECONSTRUCTION

MATCH LINE STA. 15+05.00

MATCH LINE STA. 21+50.00



SEE SHEET EXC-03 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-03 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-03 FOR CONSTRUCTION PLAN
SEE SHEET GRA-03 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-03 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN

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NEW LONDON CONNECTICUT

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UTILITY TEST PIT DATA

WATER (VEOLIA / CITY OF NEW LONDON)

TEST PIT #	BASELINE STATION	BASELINE OFFSET	NORTHING	EASTING	GROUND ELEVATION (FT)	TOP OF PIPE / UTILITY ELEVATION (FT)	UTILITY DESCRIPTION
TP-09	STA 21+99.92	14.80 LT	693487.39	1171570.77	± 186.58	N/A	WATER MAIN NOT FOUND
TP-10	STA 24+98.81	24.04 RT	693186.06	1171577.47	± 183.58	± 179.58	± 12" MAIN FOUND - D.I. NO MAIN FOUND IN ROAD
TP-11	STA 25+01.04	12.69 LT	693189.34	1171614.11	± 182.42	± 178.84	± 10" MAIN FOUND 5'-9" OFF EXISTING CURB-LINE- D.I.

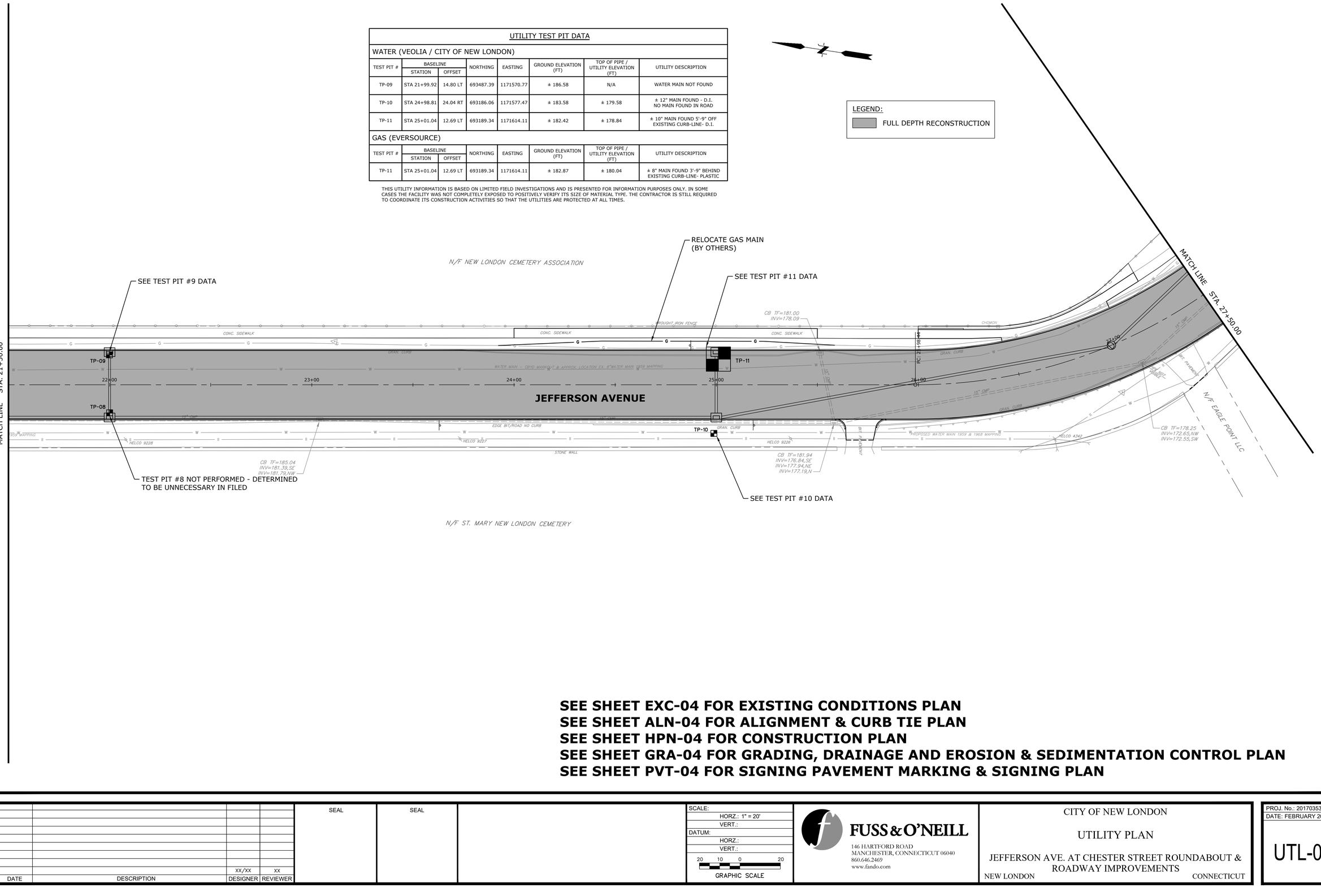
GAS (EVERSOURCE)

TEST PIT #	BASELINE STATION	BASELINE OFFSET	NORTHING	EASTING	GROUND ELEVATION (FT)	TOP OF PIPE / UTILITY ELEVATION (FT)	UTILITY DESCRIPTION
TP-11	STA 25+01.04	12.69 LT	693189.34	1171614.11	± 182.87	± 180.04	± 8" MAIN FOUND 3'-9" BEHIND EXISTING CURB-LINE- PLASTIC

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LEGEND:

FULL DEPTH RECONSTRUCTION



SEE SHEET EXC-04 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-04 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-04 FOR CONSTRUCTION PLAN
SEE SHEET GRA-04 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-04 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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CITY OF NEW LONDON

UTILITY PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

UTL-04

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LAYER STATE:
MS VIEW:

UTILITY TEST PIT DATA

GAS (EVERSOURCE)

TEST PIT #	BASELINE		NORTHING	EASTING	GROUND ELEVATION (FT)	TOP OF PIPE / UTILITY ELEVATION (FT)	UTILITY DESCRIPTION
	STATION	OFFSET					
TP-12	STA 41+14.28	13.75 RT	692609.45	1172022.96	± 159.70	± 158.45	± 8" MAIN FOUND - PLASTIC

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TEST PIT #13 NOT PERFORMED - DETERMINED TO BE UNNECESSARY IN FILED

REMOVE TRAFFIC EQUIPMENT

ADJUST GATE BOX (WATER)

ADJUST GATE BOX (GAS) (BY OTHERS)

ADJUST GATE BOX (WATER)

REMOVE TRAFFIC EQUIPMENT

REMOVE TRAFFIC HANDHOLE

ADJUST GATE BOX (WATER)

REMOVE TRAFFIC EQUIPMENT

REMOVE TRAFFIC HANDHOLE

REMOVE TRAFFIC EQUIPMENT

REMOVE TRAFFIC HANDHOLE

NEW / RELOCATED UTILITY POLE (BY OTHERS)

RELOCATE GAS MAIN (BY OTHERS)

SEE TEST PIT #12 DATA

BEGIN FULL DEPTH RECONSTRUCTION STA 41+00.00

BEGIN FULL DEPTH RECONSTRUCTION ON WEST SIDE STA 40+05.00

LEGEND:

- FULL DEPTH RECONSTRUCTION
- MILL & OVERLAY
- STAMPED CONCRETE
- DETECTABLE WARNING PANELS

SEE SHEET EXC-05 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-05 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-05 FOR CONSTRUCTION PLAN
SEE SHEET GRA-05 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-05 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN

MATCH LINE STA. 27+50.00

MATCH LINE STA. 34+00.00

MATCH LINE STA. 40+00.00

JEFFERSON AVENUE

CHESTER STREET

N/F NEW LONDON CEMETERY ASSOCIATION

N/F ST. MARY NEW LONDON CEMETERY

N/F MAUREEN CAIN TRUSTEE

N/F 556 JEFFERSON LLC

N/F KERRI L. SANTANG

N/F CITY OF NEW LONDON HIGH SCHOOL

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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CITY OF NEW LONDON

UTILITY PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

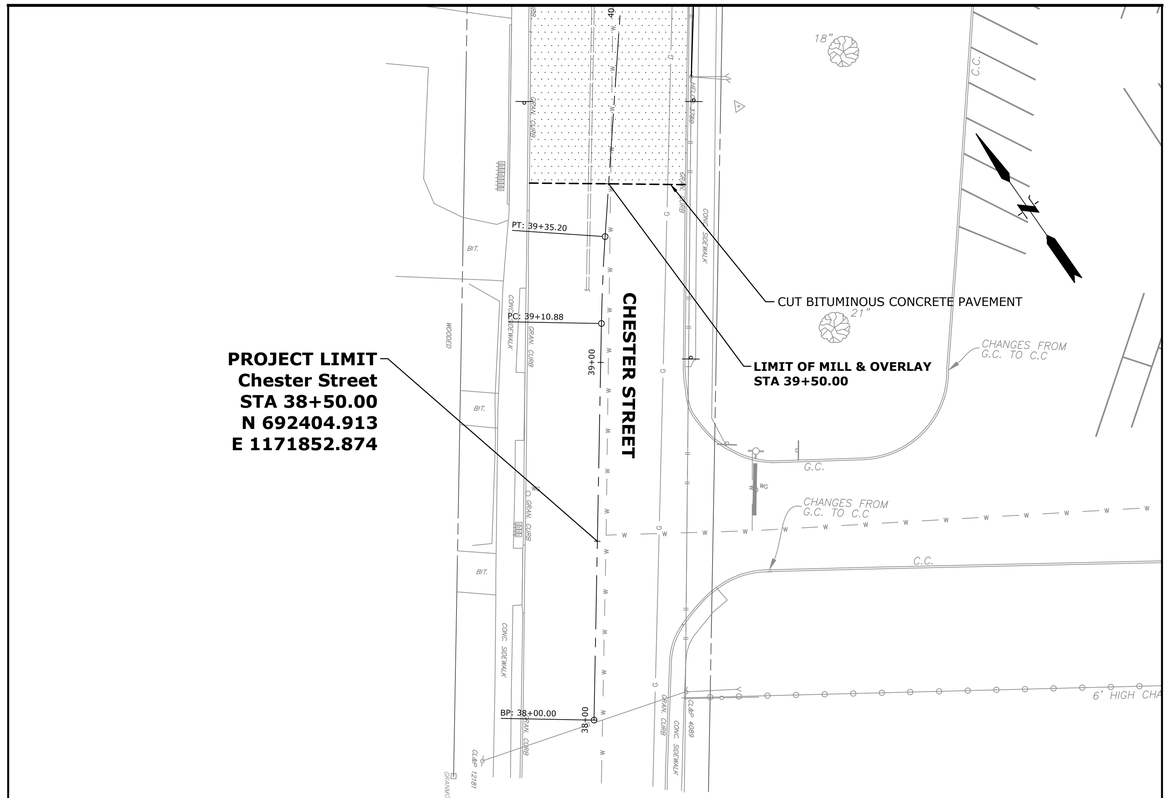
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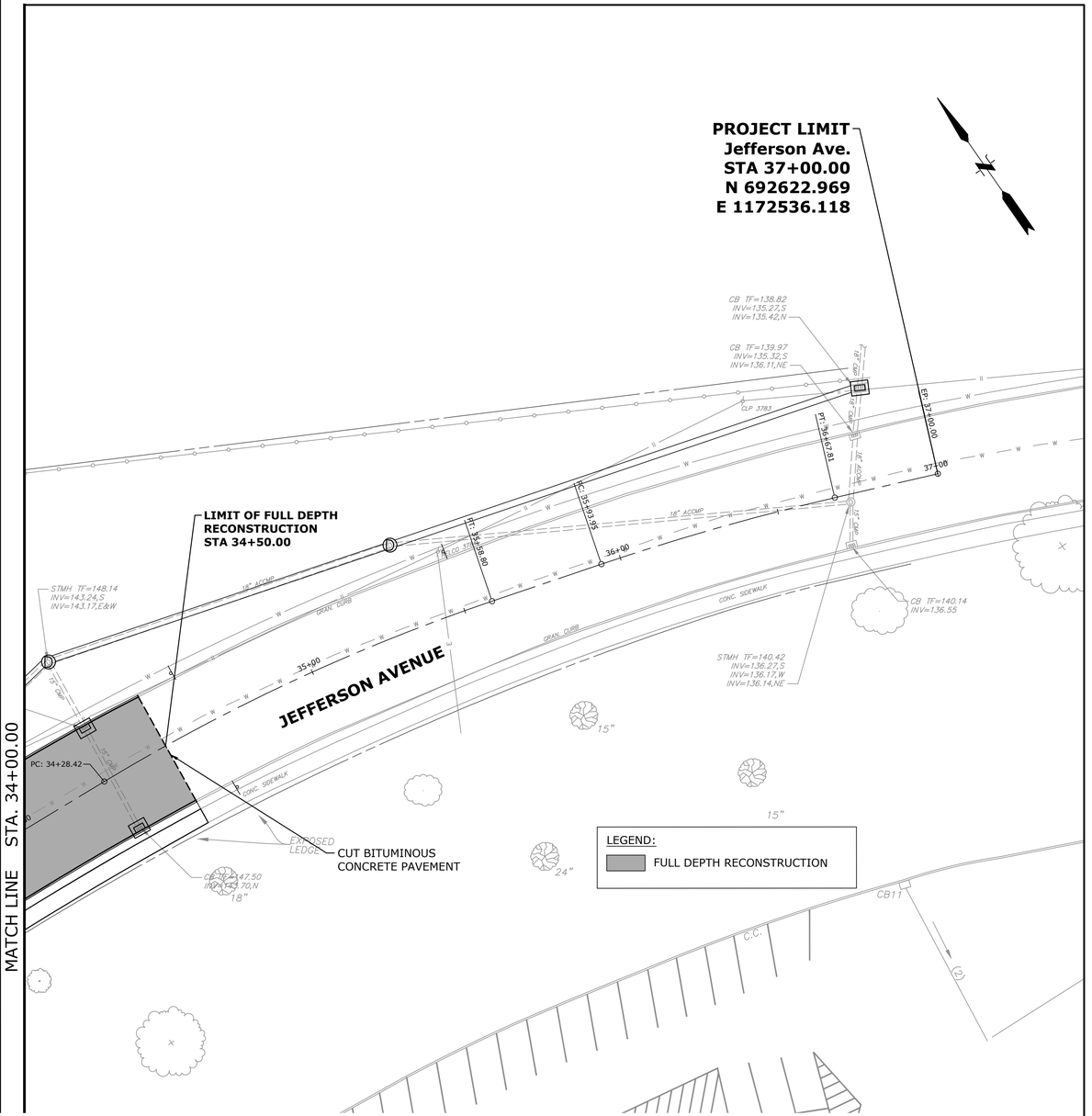
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

UTL-05

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LAYER STATE:
MS VIEW:

MATCH LINE STA. 40+00.00





MATCH LINE STA. 34+00.00

SEE SHEET EXC-06 FOR EXISTING CONDITIONS PLAN
SEE SHEET ALN-06 FOR ALIGNMENT & CURB TIE PLAN
SEE SHEET HPN-06 FOR CONSTRUCTION PLAN
SEE SHEET GRA-06 FOR GRADING, DRAINAGE AND EROSION & SEDIMENTATION CONTROL PLAN
SEE SHEET PVT-06 FOR SIGNING PAVEMENT MARKING & SIGNING PLAN

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UTILITY PLAN

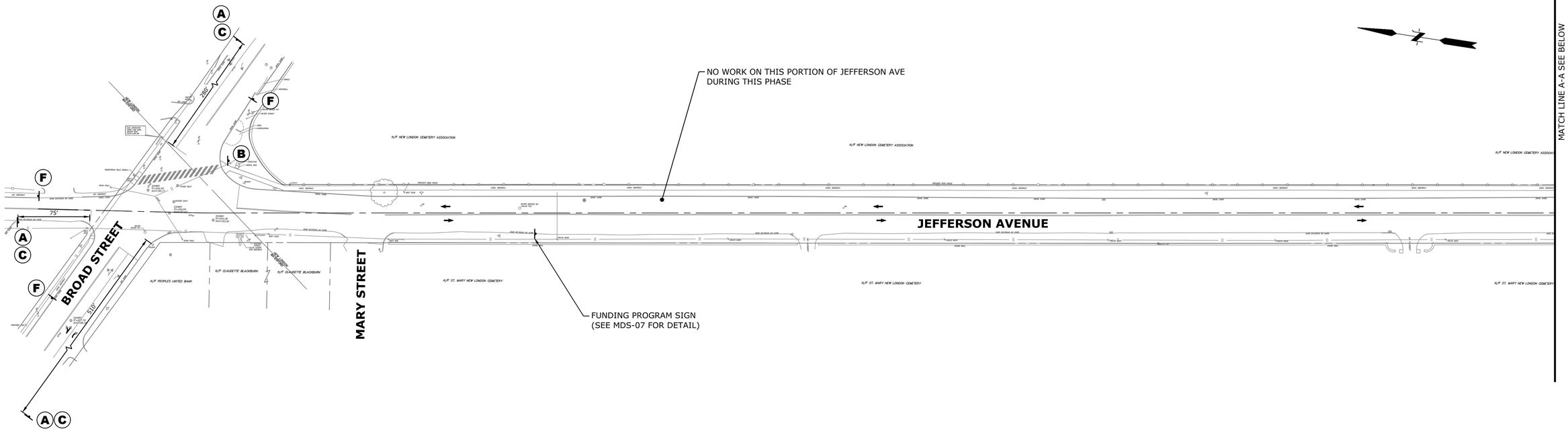
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

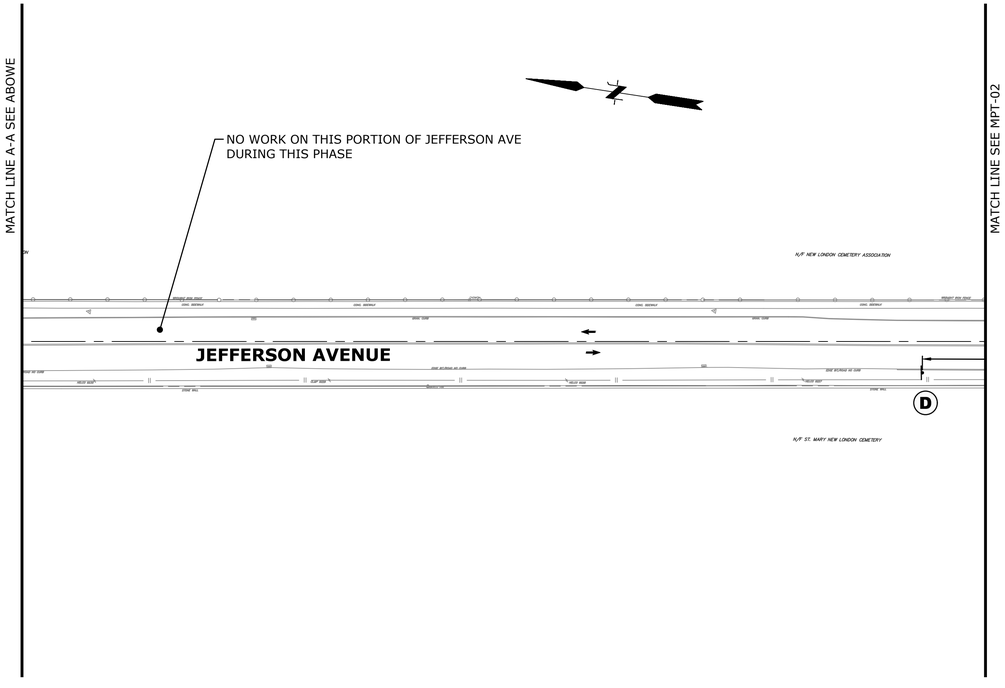
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PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

UTL-06

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MS VIEW: LAYER STATE:





SIGN LEGEND

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
A	80-1613 30"X24"	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	F	80-9612 48"X24"	END ROAD WORK						
B	80-1619 48"X30"	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION									
C	80-9916 48"X10"	JEFFERSON AVE									
D	80-9602 30"X30"	ROAD WORK AHEAD									

NOTE:

1. CONSTRUCTION STAGE SHOWN FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR TO IMPLEMENT NECESSARY CONSTRUCTION ZONES TO MAINTAIN AND PROTECT VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES DIRECTED BY THE ENGINEER AND/OR STARTED WITHIN SPECIAL PROVISION - 0971001A TO PERFORM DAILY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO MAINTAIN ALL COMMERCIAL AND/OR PRIVATE ACCESS AT ALL TIMES.

PHASE 1 LEGEND:

- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- SIGN
- TRAFFIC DRUM
- TRAFFIC CONE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAVEL

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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MAINTENANCE & PROTECTION OF TRAFFIC PLAN PHASE 1

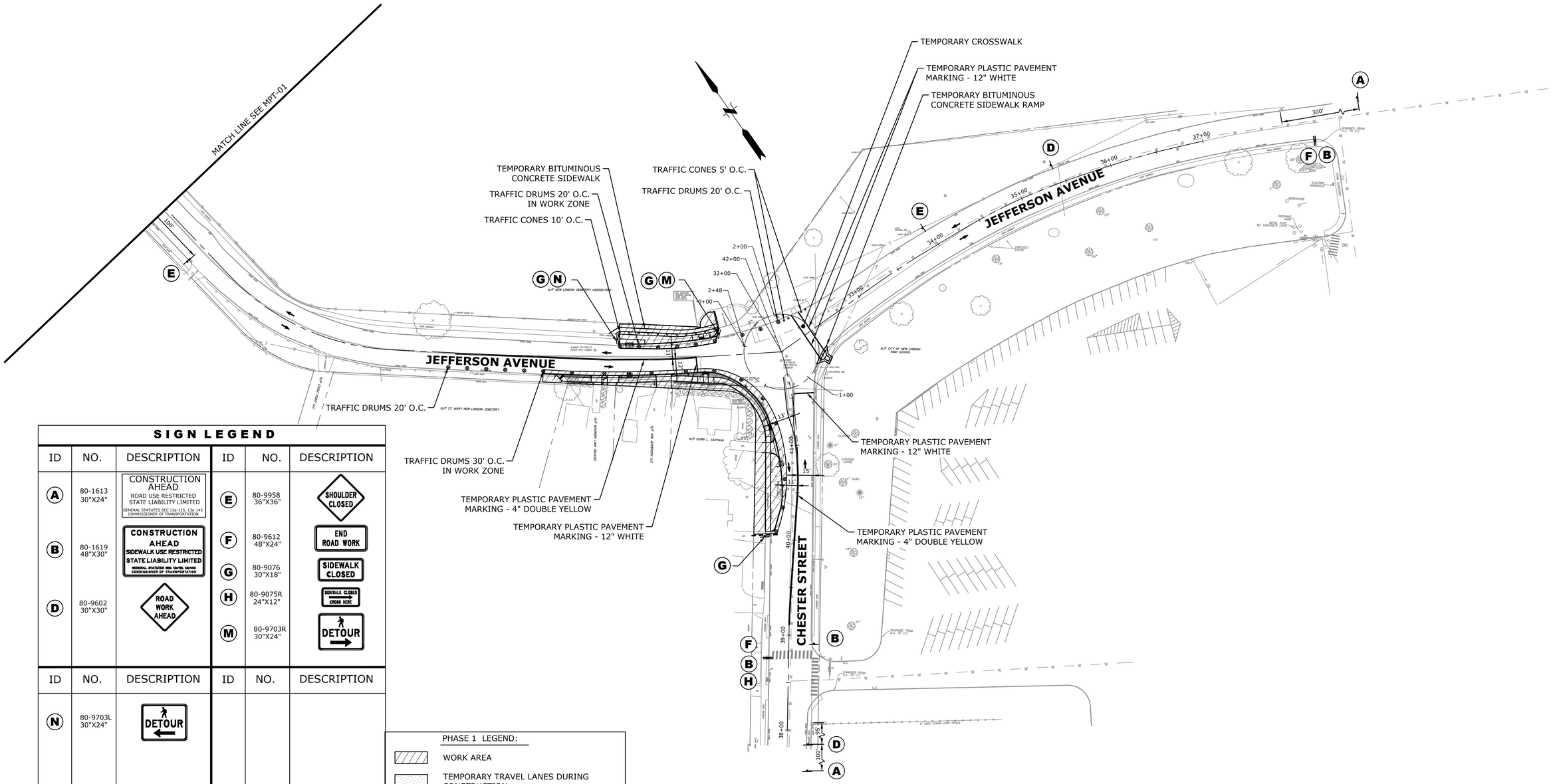
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MPT-01

File Path: J:\DWG\P20170353A20\Civil\Plan\20170353A20_MPT01.dwg Layout: MPT-01-PH1 Plotted: Wed, January 26, 2022 - 9:04 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



SIGN LEGEND

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
A	80-1613 30"X24"	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	E	80-9958 36"X36"	SHOULDER CLOSED
B	80-1619 48"X30"	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	F	80-9612 48"X24"	END ROAD WORK
			G	80-9076 30"X18"	SIDEWALK CLOSED
D	80-9602 30"X30"	ROAD WORK AHEAD	H	80-9075R 24"X12"	SIDEWALK CLOSED CROSS HERE
			M	80-9703R 30"X24"	DETOUR

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
N	80-9703L 30"X24"	DETOUR			

PHASE 1 LEGEND:

- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- SIGN
- TRAFFIC DRUM
- TRAFFIC CONE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAVEL

NOTE:

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2. CONTRACTOR TO MAINTAIN ALL COMMERCIAL AND/OR PRIVATE ACCESS AT ALL TIMES.
3. CONTRACTOR TO INSTALL SOUTHWEST CORNER AND BEGIN NORTHWEST CORNER SIDEWALK IMPROVEMENTS.
4. CONTRACTOR TO INSTALL A TEMPORARY BITUMINOUS CONCRETE SIDEWALK AND SIDEWALK RAMP.
5. RELOCATE DEPICTED STOP BARS AND ERADICATE ALL CONFLICTING PAVEMENT MARKINGS.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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MAINTENANCE & PROTECTION OF TRAFFIC PLAN
PHASE 1

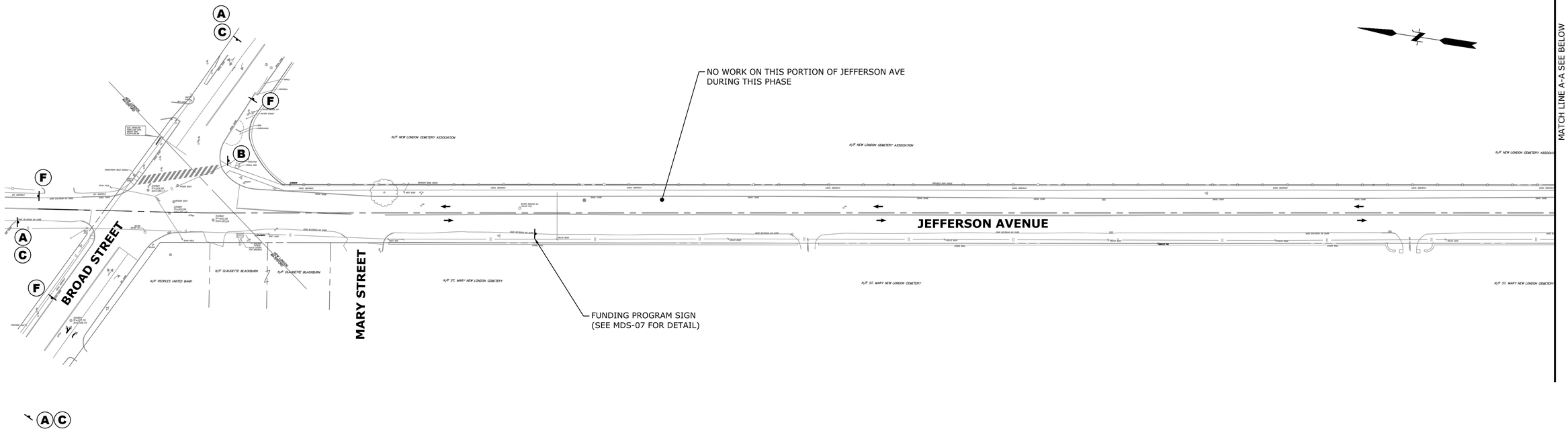
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

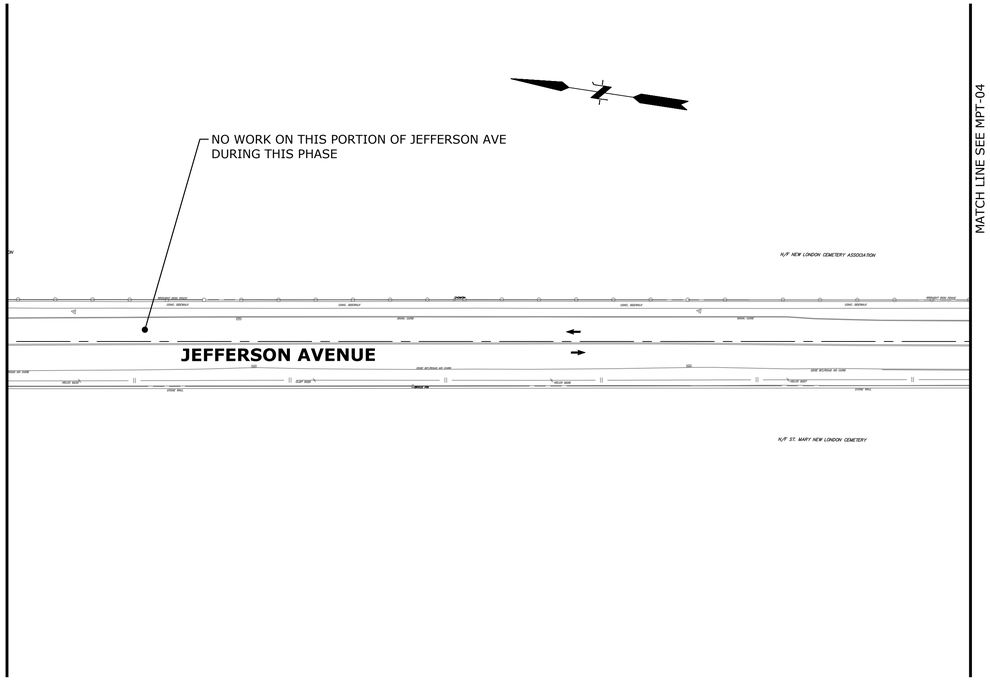
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MPT-02

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MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB





SIGN LEGEND

ID	NO.	DESCRIPTION
A	80-1613 30"X24"	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION
B	80-1619 48"X30"	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION
C	80-9916 48"X10"	JEFFERSON AVE
F	80-9612 48"X24"	END ROAD WORK

NOTE:

1. CONSTRUCTION STAGE SHOWN FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR TO IMPLEMENT NECESSARY CONSTRUCTION ZONES TO MAINTAIN AND PROTECT VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES DIRECTED BY THE ENGINEER AND/OR STARTED WITHIN SPECIAL PROVISION - 0971001A TO PERFORM DAILY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO MAINTAIN ALL COMMERCIAL AND/OR PRIVATE ACCESS AT ALL TIMES.

PHASE 2 LEGEND:

- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- SIGN
- TRAFFIC DRUM
- TRAFFIC CONE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAVEL

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 50'
VERT.:
DATUM:
HORZ.:
VERT.:
50 25 0 50
GRAPHIC SCALE

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MAINTENANCE & PROTECTION OF TRAFFIC PLAN PHASE 2

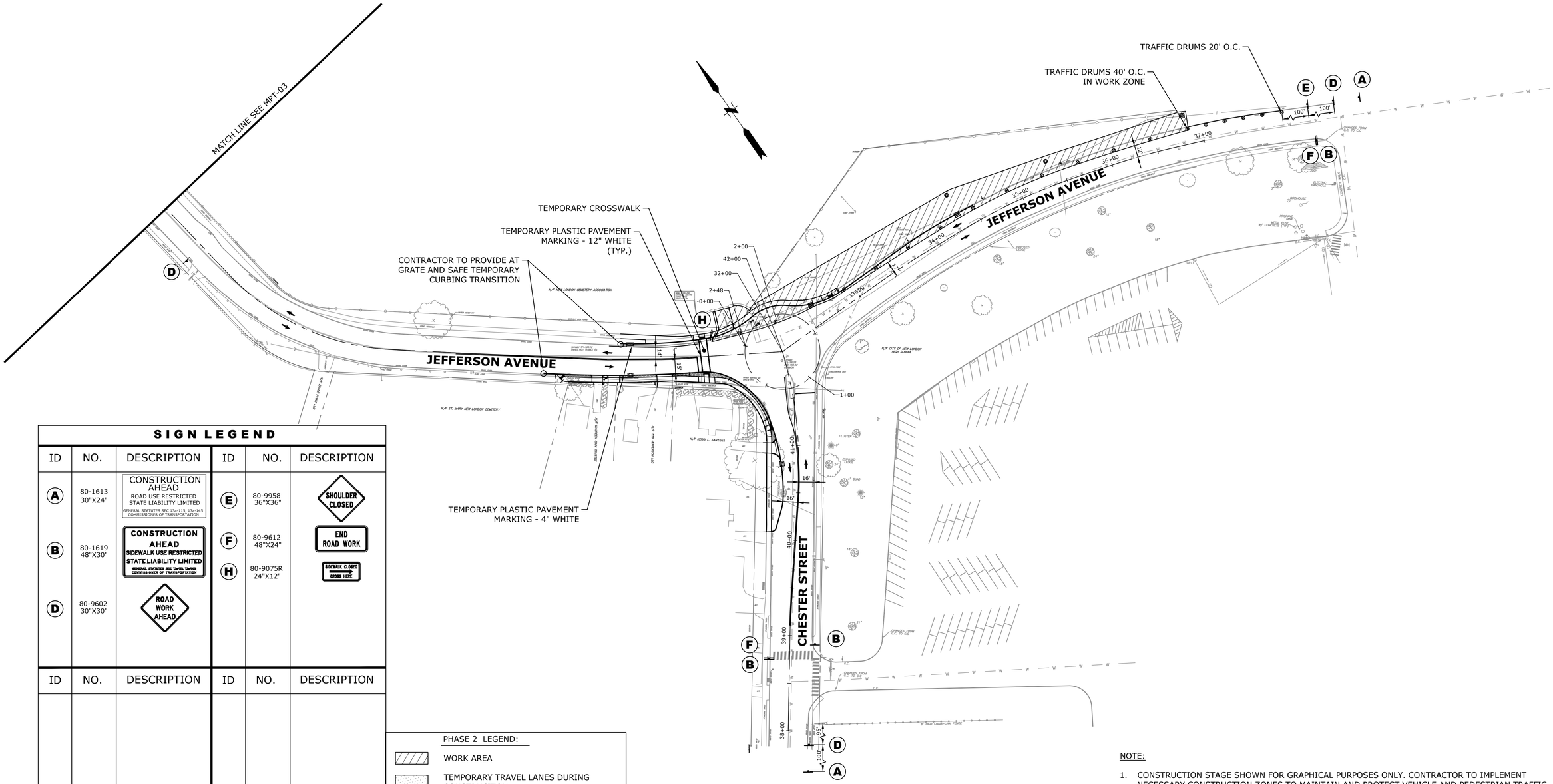
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MPT-03

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



SIGN LEGEND

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
A	80-1613 30"X24"	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	E	80-9958 36"X36"	SHOULDER CLOSED
B	80-1619 48"X30"	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	F	80-9612 48"X24"	END ROAD WORK
D	80-9602 30"X30"	ROAD WORK AHEAD	H	80-9075R 24"X12"	SIDEWALK CLOSED CROSS HERE

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION

PHASE 2 LEGEND:

- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- SIGN
- TRAFFIC DRUM
- TRAFFIC CONE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAVEL

NOTE:

1. CONSTRUCTION STAGE SHOWN FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR TO IMPLEMENT NECESSARY CONSTRUCTION ZONES TO MAINTAIN AND PROTECT VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES DIRECTED BY THE ENGINEER AND/OR STARTED WITHIN SPECIAL PROVISION - 0971001A TO PERFORM DAILY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO MAINTAIN ALL COMMERCIAL AND/OR PRIVATE ACCESS AT ALL TIMES.
3. CONTRACTOR TO INSTALL ROADWAY AND SIDEWALK ELEMENTS ALONG NORTHERN SIDE OF INTERSECTION / JEFFERSON AVE.
4. CONTRACTOR TO MAINTAIN ACCESS TO COMMENTARY DRIVE AND/OR COORDINATE ANY NECESSARY CLOSURE.
5. COORDINATE THE REMOVAL OF ALL TRAFFIC SIGNAL CENTRAL EQUIPMENT. IMPLEMENT TEMPORARY TRAFFIC SIGNALIZATION AND DETECTION IF NECESSARY.
6. INSTALL TEMPORARY CROSSWALK ON WESTERN LEG. ERADICATE ALL CONFLICTING PAVEMENT MARKINGS.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 50'
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DATUM:
HORZ.:
VERT.:
50 25 0 50
GRAPHIC SCALE

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MAINTENANCE & PROTECTION OF TRAFFIC PLAN PHASE 2

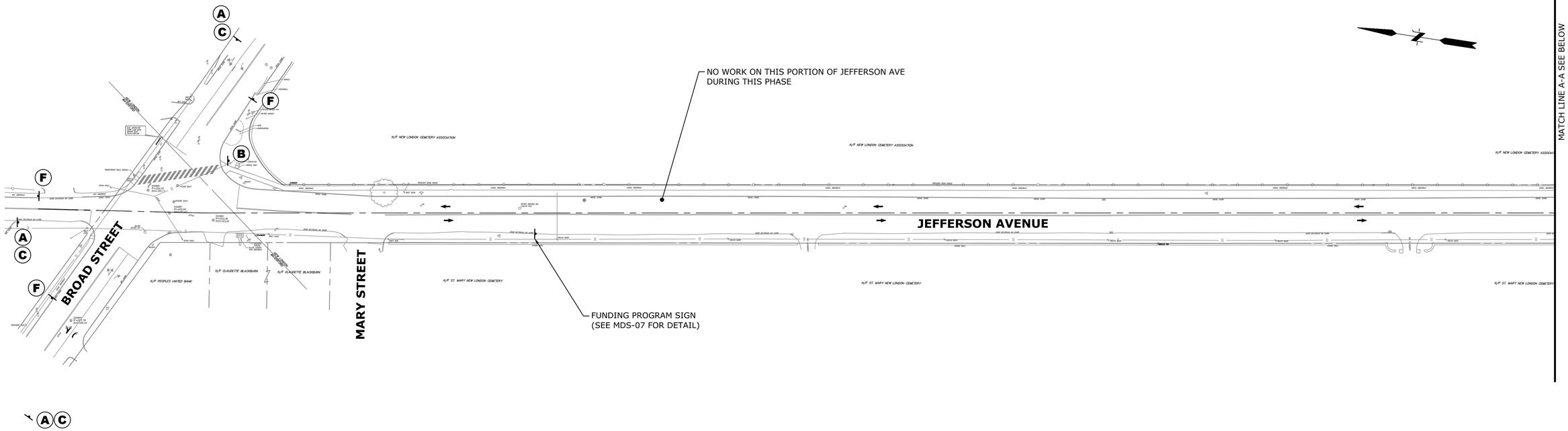
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

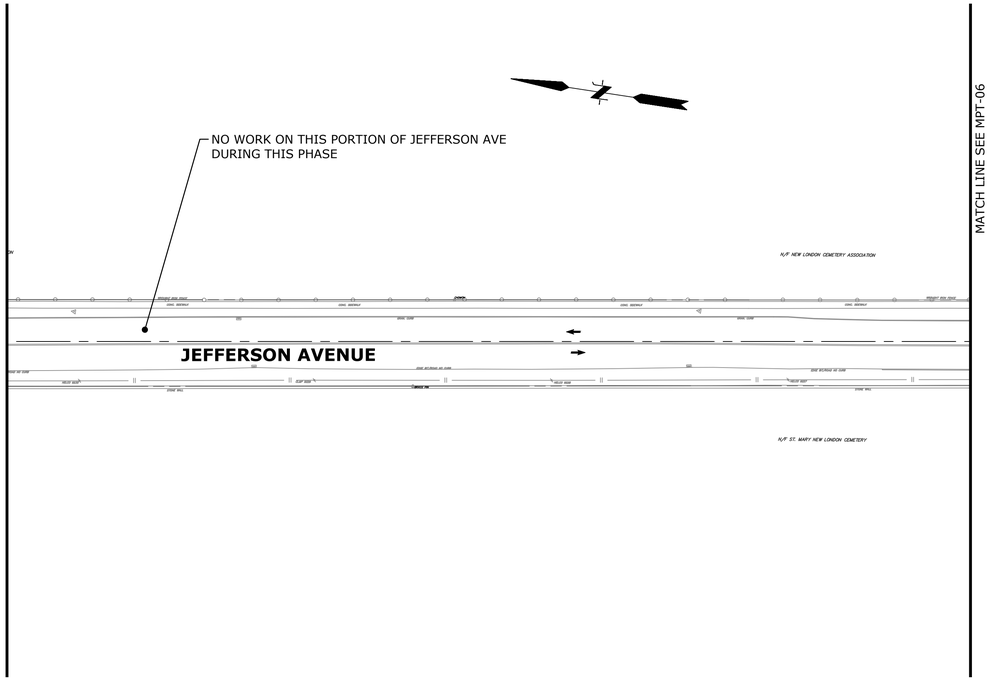
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MPT-04

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MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB





SIGN LEGEND

ID	NO.	DESCRIPTION
A	80-1613 30"X24"	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION
B	80-1619 48"X30"	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION
C	80-9916 48"X10"	JEFFERSON AVE
F	80-9612 48"X24"	END ROAD WORK

NOTE:

1. CONSTRUCTION STAGE SHOWN FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR TO IMPLEMENT NECESSARY CONSTRUCTION ZONES TO MAINTAIN AND PROTECT VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES DIRECTED BY THE ENGINEER AND/OR STARTED WITHIN SPECIAL PROVISION - 0971001A TO PERFORM DAILY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO MAINTAIN ALL COMMERCIAL AND/OR PRIVATE ACCESS AT ALL TIMES.

PHASE 3 LEGEND:

- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- SIGN
- TRAFFIC DRUM
- TRAFFIC CONE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAVEL

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 50'
VERT.:
DATUM:
HORZ.:
VERT.:
50 25 0 50
GRAPHIC SCALE

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CITY OF NEW LONDON

MAINTENANCE & PROTECTION OF TRAFFIC PLAN PHASE 3

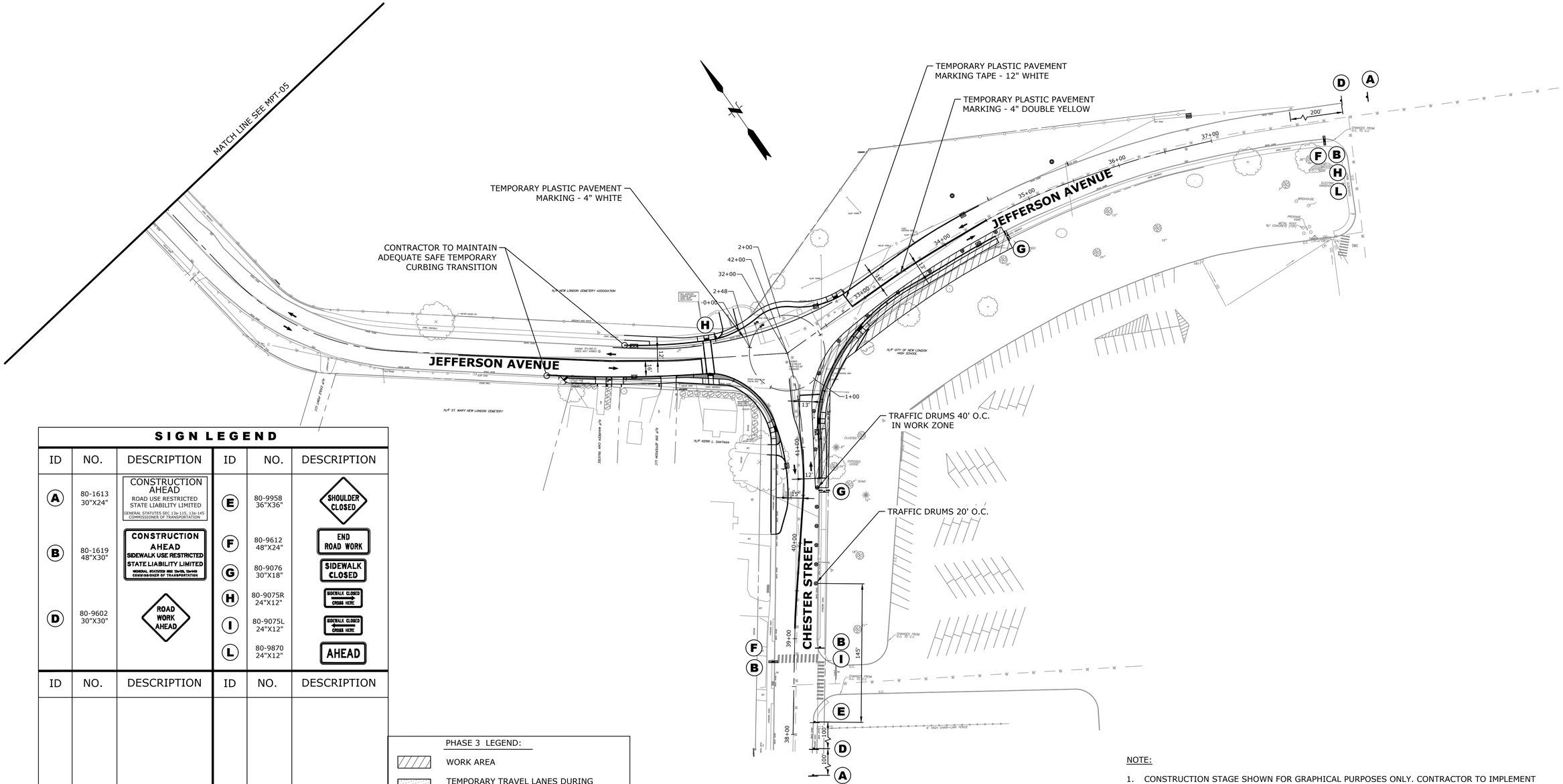
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MPT-05

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



SIGN LEGEND

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
A	80-1613 30"X24"	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	E	80-9958 36"X36"	SHOULDER CLOSED
B	80-1619 48"X30"	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	F	80-9612 48"X24"	END ROAD WORK
			G	80-9076 30"X18"	SIDEWALK CLOSED
D	80-9602 30"X30"	ROAD WORK AHEAD	H	80-9075R 24"X12"	SIDEWALK CLOSED ACROSS ROAD CROSS HERE
			I	80-9075L 24"X12"	SIDEWALK CLOSED ACROSS ROAD CROSS HERE
			L	80-9870 24"X12"	AHEAD

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION

PHASE 3 LEGEND:

- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- SIGN
- TRAFFIC DRUM
- TRAFFIC CONE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAVEL

NOTE:

1. CONSTRUCTION STAGE SHOWN FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR TO IMPLEMENT NECESSARY CONSTRUCTION ZONES TO MAINTAIN AND PROTECT VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES DIRECTED BY THE ENGINEER AND/OR STARTED WITHIN SPECIAL PROVISION - 0971001A TO PERFORM DAILY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO MAINTAIN ALL COMMERCIAL AND/OR PRIVATE ACCESS AT ALL TIMES.
3. CONTRACTOR TO INSTALL ROADWAY AND SIDEWALK ELEMENTS ALONG SOUTHERN LEG OF INTERSECTION / JEFFERSON AVE.
4. CONTRACTOR TO MAINTAIN ACCESS TO COMMENTARY DRIVE AND/OR COORDINATE ANY NECESSARY CLOSURE.
5. CONTRACTOR TO COORDINATE WITH NECESSARY UTILITY OWNERS FOR UTILITY POLE RELOCATION.
6. CONTRACTOR TO MAINTAIN TEMPORARY TRAFFIC SIGNALIZATION AND DETECTION.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 50'
VERT.:
DATUM:
HORZ.:
VERT.:
50 25 0 50
GRAPHIC SCALE

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MAINTENANCE & PROTECTION OF TRAFFIC PLAN PHASE 3

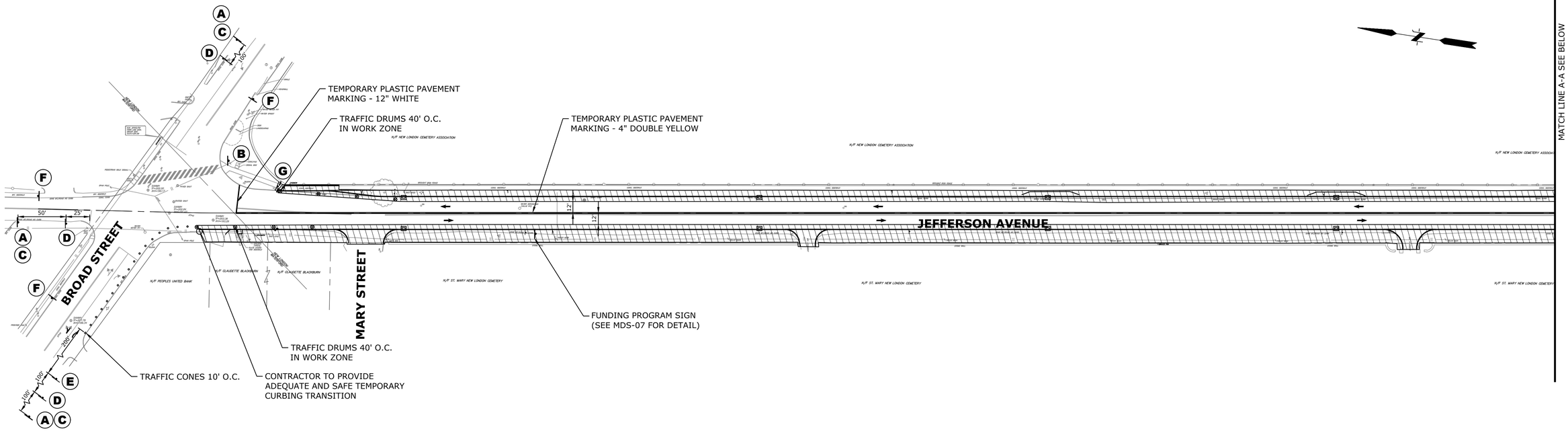
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

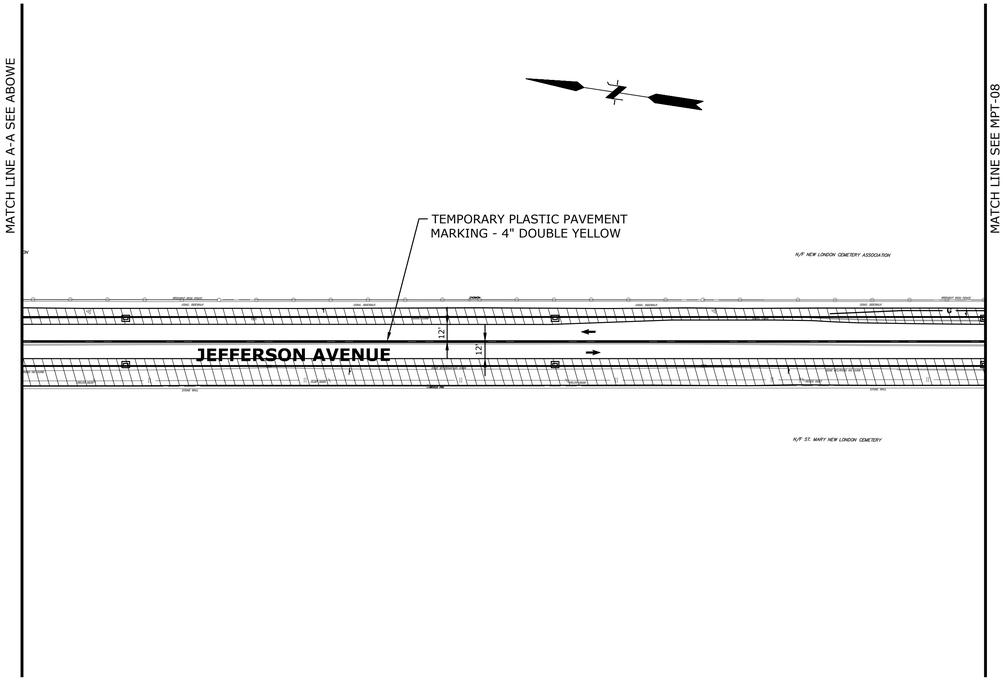
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MPT-06

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LAYER STATE:
MS VIEW:





SIGN LEGEND

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
A	80-1613 30"X24"	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	E	80-9958 36"X36"	SHOULDER CLOSED						
B	80-1619 48"X30"	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	F	80-9612 48"X24"	END ROAD WORK						
C	80-9916 48"X10"	JEFFERSON AVE	G	80-9076 30"X18"	SIDEWALK CLOSED						
D	80-9602 30"X30"	ROAD WORK AHEAD									

NOTE:

1. CONSTRUCTION STAGE SHOWN FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR TO IMPLEMENT NECESSARY CONSTRUCTION ZONES TO MAINTAIN AND PROTECT VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES DIRECTED BY THE ENGINEER AND/OR STARTED WITHIN SPECIAL PROVISION - 0971001A TO PERFORM DAILY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO MAINTAIN ALL COMMERCIAL AND/OR PRIVATE ACCESS AT ALL TIMES.
3. CONTRACTOR TO INSTALL ROADWAY ELEMENTS ALONG EASTERN AND WESTERN CURB LINE ON JEFFERSON AVENUE.
4. CONTRACTOR TO UTILIZE DRUMS AND CONES IN AREA OF DAILY ACTIVITIES AS NECESSARY WITHIN THIS PHASE.
5. ERADICATE ALL EXISTING CONFLICTING PAVEMENT MARKINGS.

PHASE 4 LEGEND:

- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- SIGN
- TRAFFIC DRUM
- TRAFFIC CONE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAVEL

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 50'
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50 25 0 50
GRAPHIC SCALE

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MAINTENANCE & PROTECTION OF TRAFFIC PLAN PHASE 4

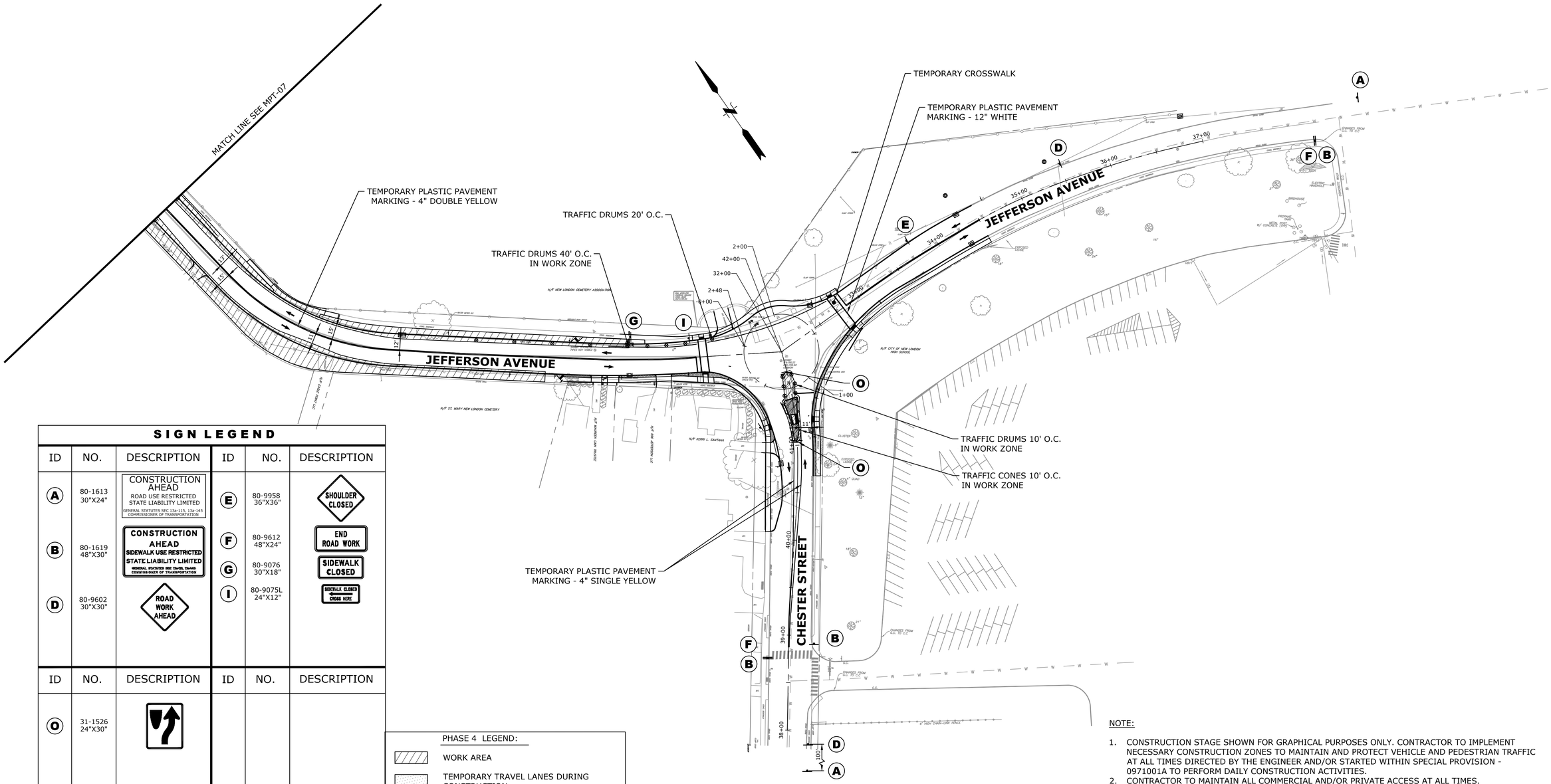
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MPT-07

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:



SIGN LEGEND

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
A	80-1613 30"X24"	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	E	80-9958 36"X36"	SHOULDER CLOSED
B	80-1619 48"X30"	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	F	80-9612 48"X24"	END ROAD WORK
			G	80-9076 30"X18"	SIDEWALK CLOSED
D	80-9602 30"X30"	ROAD WORK AHEAD	I	80-9075L 24"X12"	SIDEWALK CLOSED CROSS HERE
ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
O	31-1526 24"X30"				

PHASE 4 LEGEND:

- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- SIGN
- TRAFFIC DRUM
- TRAFFIC CONE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAVEL

NOTE:

1. CONSTRUCTION STAGE SHOWN FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR TO IMPLEMENT NECESSARY CONSTRUCTION ZONES TO MAINTAIN AND PROTECT VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES DIRECTED BY THE ENGINEER AND/OR STARTED WITHIN SPECIAL PROVISION - 0971001A TO PERFORM DAILY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO MAINTAIN ALL COMMERCIAL AND/OR PRIVATE ACCESS AT ALL TIMES.
3. CONTRACTOR TO INSTALL ROADWAY AND SIDEWALK ELEMENTS ALONG EASTERN AND WESTERN CURB-LINE ON JEFFERSON AVENUE AND SOUTHERN SPLITTER ISLAND ON CHESTER STREET.
4. THE CONTRACTOR SHALL COORDINATE WITH THE CITY AND THE ENGINEER IF ADVANCING THE PROPOSED ROUNDABOUT AND COMPLETING THE INTERSECTION IS PREFERRED BEFORE INSTALLING OR WORKING ON THE PROPOSED CONDITIONS BETWEEN STATIONS 4+45 AND 30+50 +/-.
5. CONTRACTOR TO UTILIZE DRUMS AND CONES IN AREA OF DAILY ACTIVITIES AS NECESSARY WITHIN THIS PLACE.
6. CONTRACTOR TO MAINTAIN TEMPORARY TRAFFIC SIGNALIZATION AND DETECTION.
7. ERADICATE ALL EXISTING CONFLICTING PAVEMENT MARKINGS.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 50'
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GRAPHIC SCALE

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MAINTENANCE & PROTECTION OF TRAFFIC PLAN PHASE 4

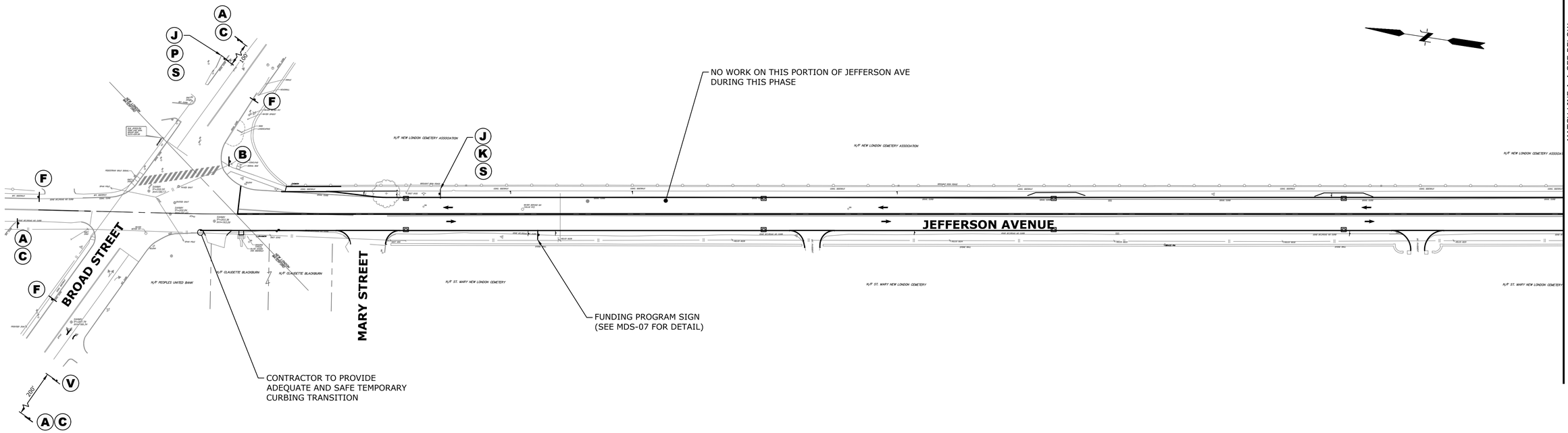
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

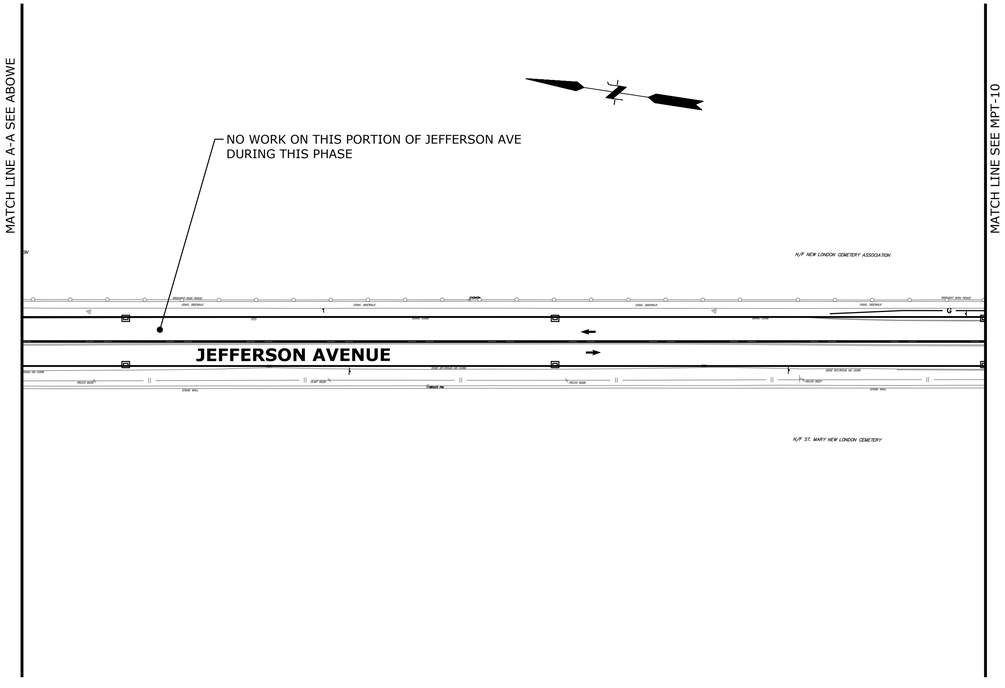
NEW LONDON CONNECTICUT

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DATE: FEBRUARY 2022

MPT-08

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MS VIEW: LAYER STATE:





SIGN LEGEND

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
A	80-1613 30"X24"	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	J	80-9707 24"X12"	DETOUR						
B	80-1619 48"X30"	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	K	80-9916 48"X10"	COLMAN ST						
C	80-9916 48"X10"	JEFFERSON AVE	P	80-9916 48"X10"	CHESTER ST						
F	80-9612 48"X24"	END ROAD WORK	S	51-2626R 21"X15"							
			V	80-9928 60"X30"	DETOUR TO RTE.1 (COLMAN ST) JEFFERSON AVE CLOSED AHEAD						

NOTE:

1. CONSTRUCTION STAGE SHOWN FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR TO IMPLEMENT NECESSARY CONSTRUCTION ZONES TO MAINTAIN AND PROTECT VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES DIRECTED BY THE ENGINEER AND/OR STARTED WITHIN SPECIAL PROVISION - 0971001A TO PERFORM DAILY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO MAINTAIN ALL COMMERCIAL AND/OR PRIVATE ACCESS AT ALL TIMES.

PHASE 5 LEGEND:

- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- SIGN
- TRAFFIC DRUM
- TRAFFIC CONE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAVEL

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 50'
VERT.:
DATUM:
HORZ.:
VERT.:
50 25 0 50
GRAPHIC SCALE

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MANCHESTER, CONNECTICUT 06040
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MAINTENANCE & PROTECTION OF TRAFFIC PLAN PHASE 5

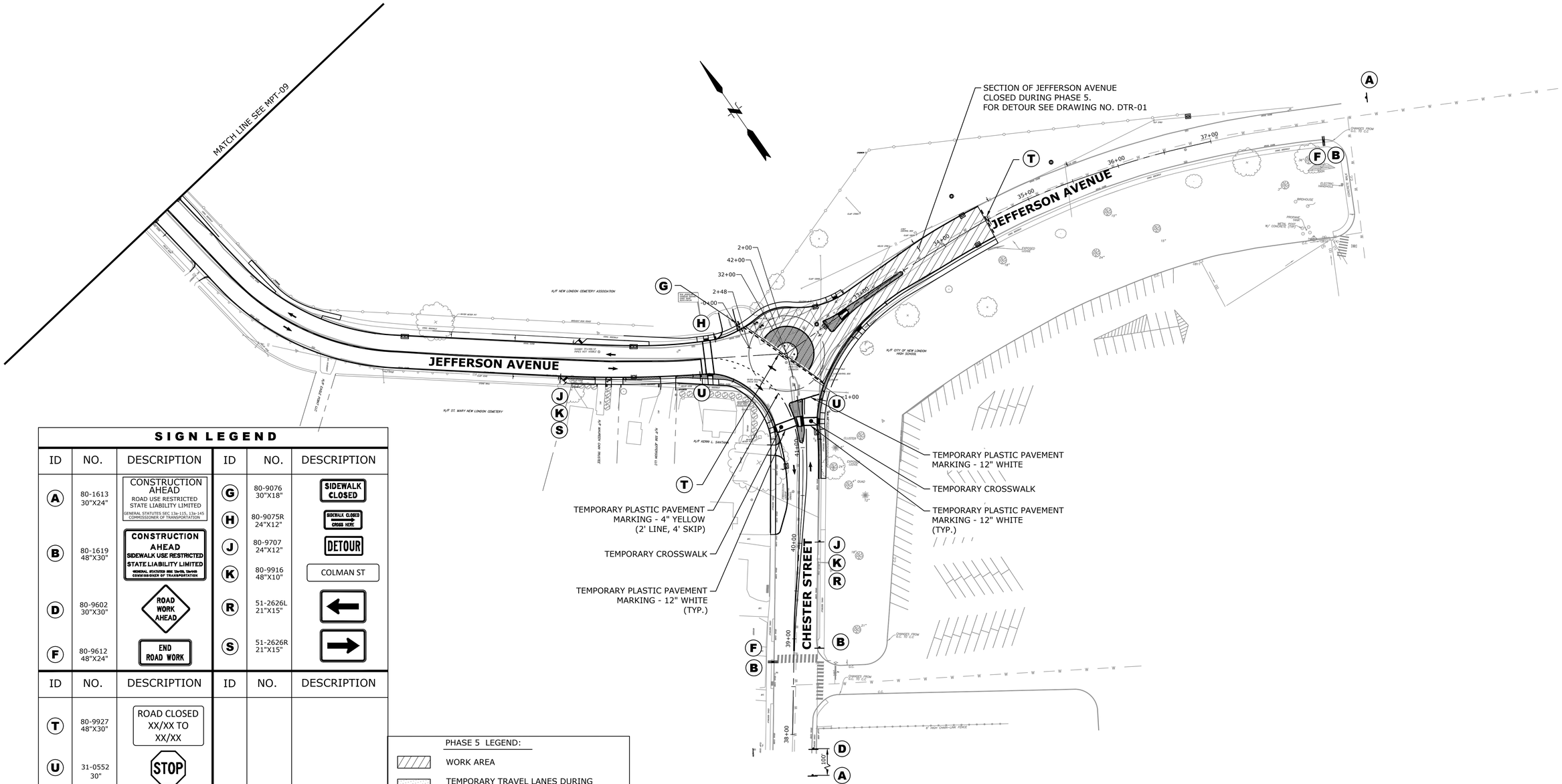
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MPT-09

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



SIGN LEGEND

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
A	80-1613 30"X24"	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	G	80-9076 30"X18"	SIDEWALK CLOSED
			H	80-9075R 24"X12"	SIDEWALK CLOSED CROSS HERE
B	80-1619 48"X30"	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	J	80-9707 24"X12"	DETOUR
			K	80-9916 48"X10"	COLMAN ST
D	80-9602 30"X30"	ROAD WORK AHEAD	R	51-2626L 21"X15"	
F	80-9612 48"X24"	END ROAD WORK	S	51-2626R 21"X15"	

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
T	80-9927 48"X30"	ROAD CLOSED XX/XX TO XX/XX			
U	31-0552 30"	STOP			

PHASE 5 LEGEND:

- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- SIGN
- TRAFFIC DRUM
- TRAFFIC CONE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAVEL

NOTE:

1. CONSTRUCTION STAGE SHOWN FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR TO IMPLEMENT NECESSARY CONSTRUCTION ZONES TO MAINTAIN AND PROTECT VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES DIRECTED BY THE ENGINEER AND/OR STARTED WITHIN SPECIAL PROVISION - 0971001A TO PERFORM DAILY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO MAINTAIN ALL COMMERCIAL AND/OR PRIVATE ACCESS AT ALL TIMES.
3. SEE DETOUR 01.
4. THE CONTRACTOR SHALL COORDINATE WITH THE NEW LONDON HIGH SCHOOL RENOVATION TEAM.
5. PHASE 5 AND DETOUR 01 SHALL BE IMPLEMENTED DURING SCHOOL VACATIONS AND NOT WHILE SCHOOL IS IN SESSION.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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SCALE:
HORZ.: 1" = 50'
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DATUM:
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GRAPHIC SCALE

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CITY OF NEW LONDON

MAINTENANCE & PROTECTION OF TRAFFIC PLAN
PHASE 5

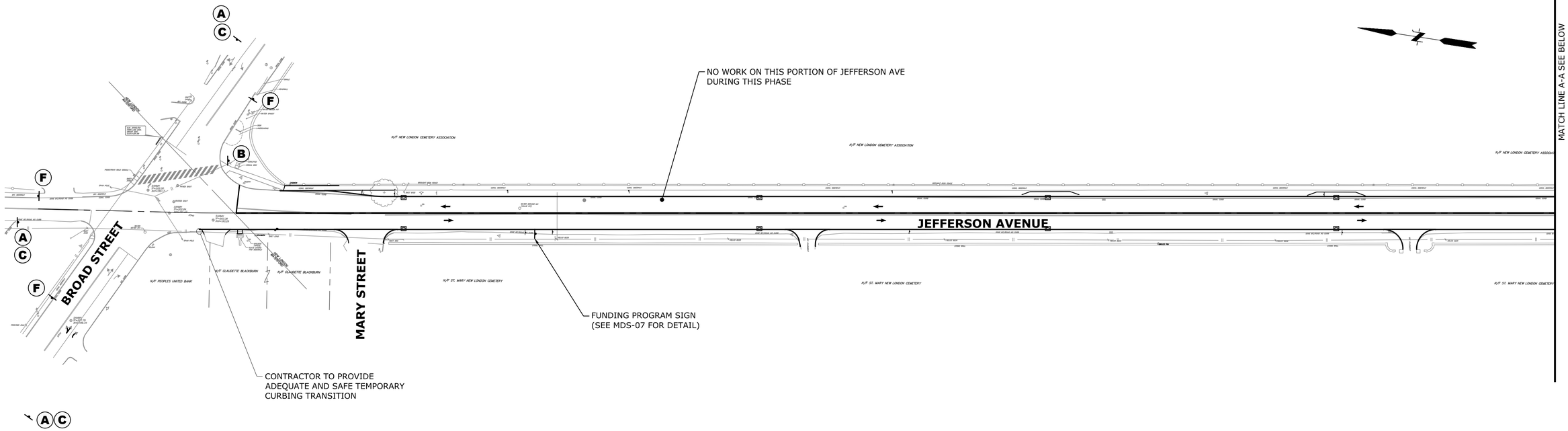
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

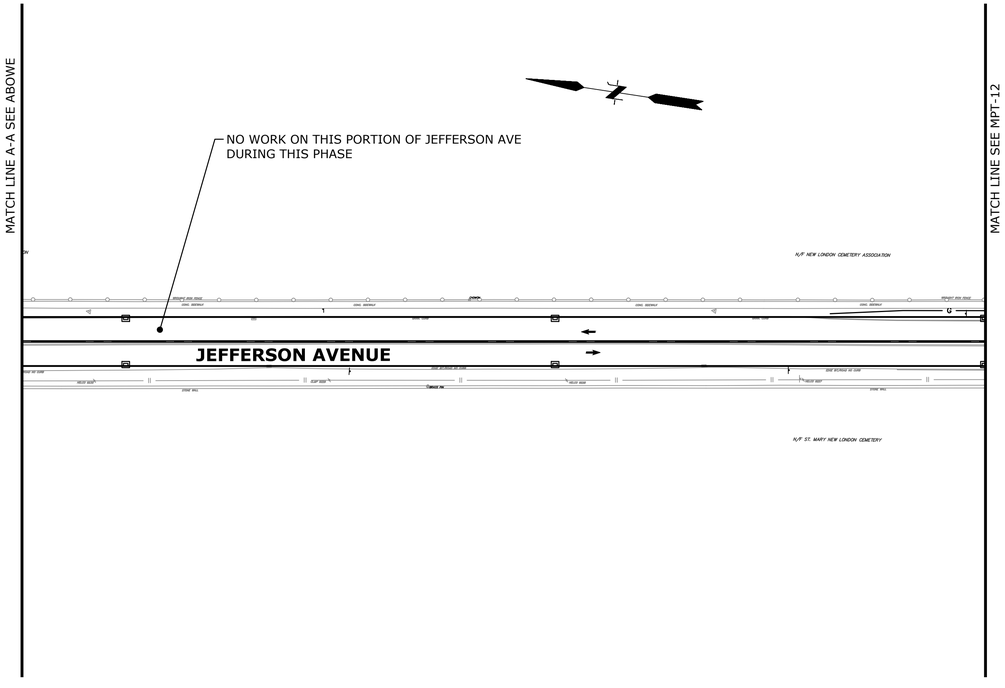
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MPT-10

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: F0.STB
LAYER STATE:
MS VIEW:





SIGN LEGEND

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
A	80-1613 30"X24"	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION									
B	80-1619 48"X30"	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION									
C	80-9916 48"X10"	JEFFERSON AVE									
F	80-9612 48"X24"	END ROAD WORK									

NOTE:

1. CONSTRUCTION STAGE SHOWN FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR TO IMPLEMENT NECESSARY CONSTRUCTION ZONES TO MAINTAIN AND PROTECT VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES DIRECTED BY THE ENGINEER AND/OR STARTED WITHIN SPECIAL PROVISION - 0971001A TO PERFORM DAILY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO MAINTAIN ALL COMMERCIAL AND/OR PRIVATE ACCESS AT ALL TIMES.

PHASE 6 LEGEND:

- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- SIGN
- TRAFFIC DRUM
- TRAFFIC CONE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAVEL

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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SEAL

SEAL

SCALE:
HORZ.: 1" = 50'
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GRAPHIC SCALE

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MANCHESTER, CONNECTICUT 06040
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CITY OF NEW LONDON

MAINTENANCE & PROTECTION OF TRAFFIC PLAN
PHASE 6

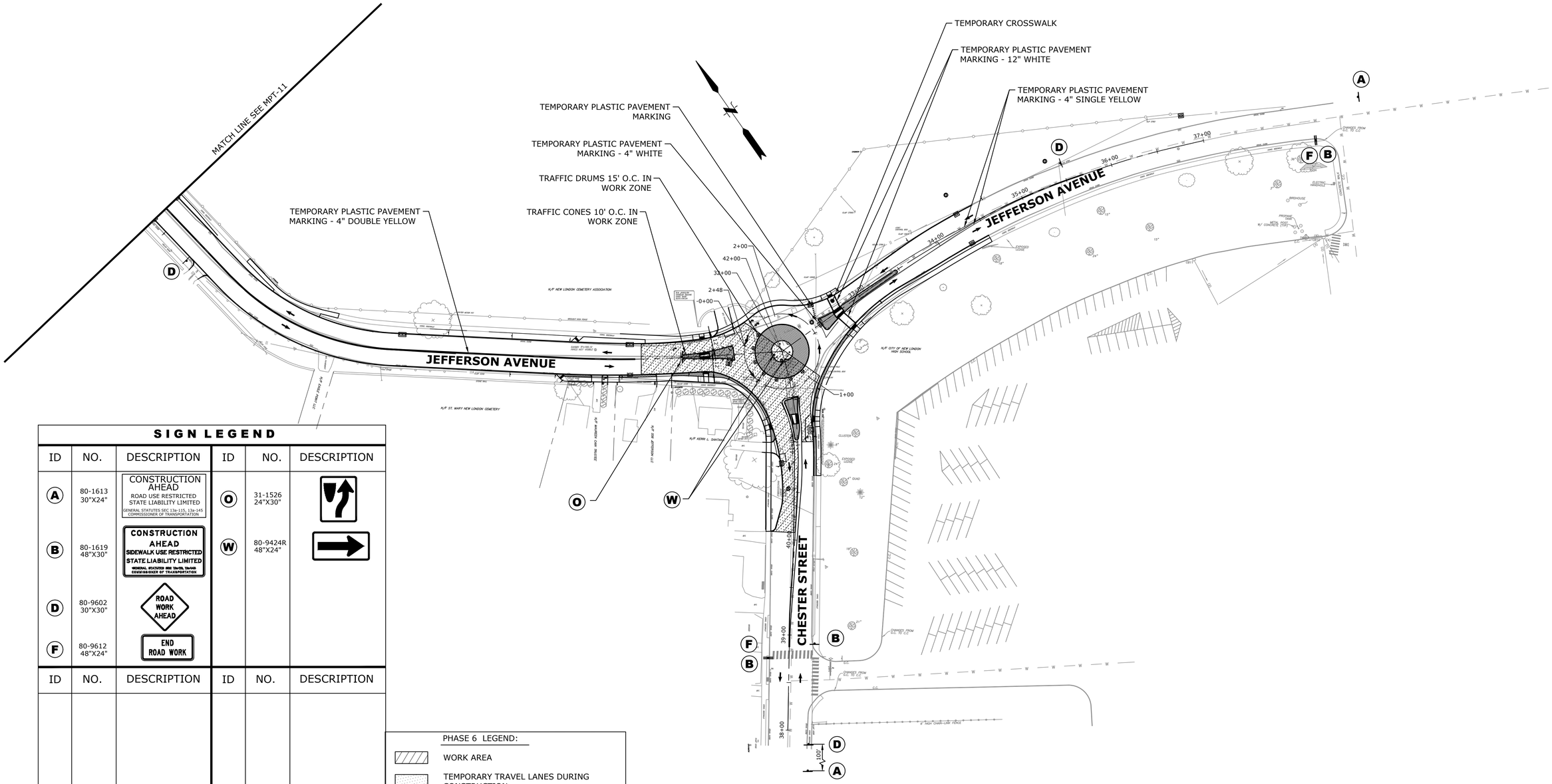
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT &
ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MPT-11

File Path: J:\DWG\P20170353A20\Civil\Plan\20170353A20_MPT01.dwg Layout: MPT-11-PH6 Plotted: Wed, January 26, 2022 - 9:05 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



SIGN LEGEND

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
A	80-1613 30"X24"	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	O	31-1526 24"X30"	
B	80-1619 48"X30"	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	W	80-9424R 48"X24"	
D	80-9602 30"X30"	ROAD WORK AHEAD			
F	80-9612 48"X24"	END ROAD WORK			

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION

PHASE 6 LEGEND:

- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- SIGN
- TRAFFIC DRUM
- TRAFFIC CONE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAVEL

NOTE:

1. CONSTRUCTION STAGE SHOWN FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR TO IMPLEMENT NECESSARY CONSTRUCTION ZONES TO MAINTAIN AND PROTECT VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES DIRECTED BY THE ENGINEER AND/OR STARTED WITHIN SPECIAL PROVISION - 0971001A TO PERFORM DAILY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO MAINTAIN ALL COMMERCIAL AND/OR PRIVATE ACCESS AT ALL TIMES.
3. TEMPORARY TRAVEL LANES SHALL MAINTAIN MINIMUM TRAVERSABLE WIDTHS. SEE MAINTENANCE AND PROTECTION OF TRAFFIC SPECIAL PROVISIONS.
4. CONTRACTOR SHALL INSTALL AND MAINTAIN TRAVERSABLE RAMPS BETWEEN SUBBASE / GRAVEL AND PAVEMENT AREAS.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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GRAPHIC SCALE

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CITY OF NEW LONDON

MAINTENANCE & PROTECTION OF TRAFFIC PLAN
PHASE 6

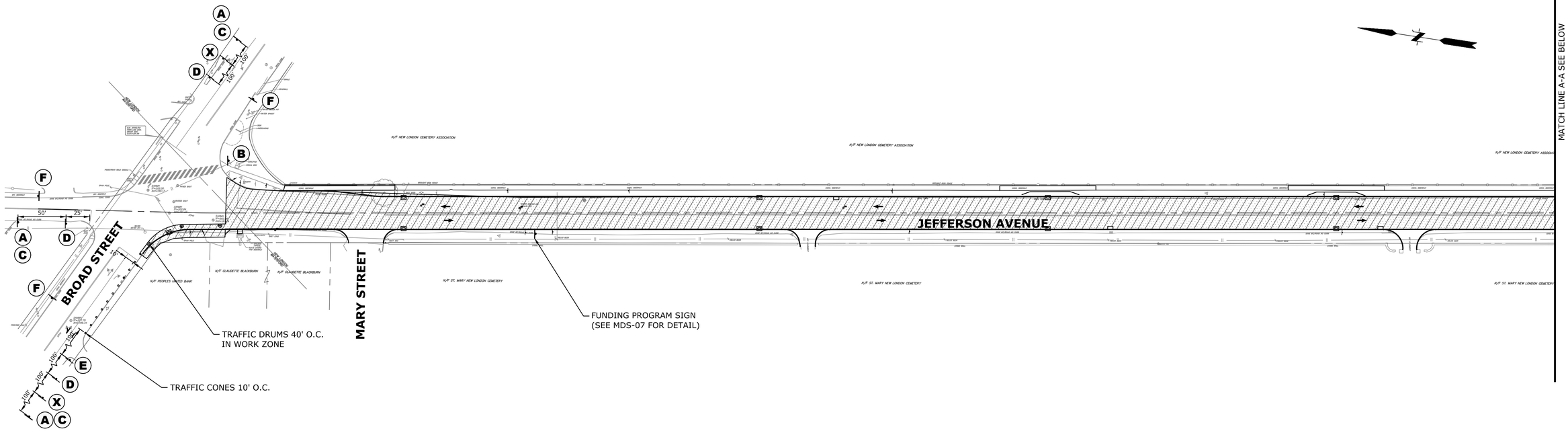
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

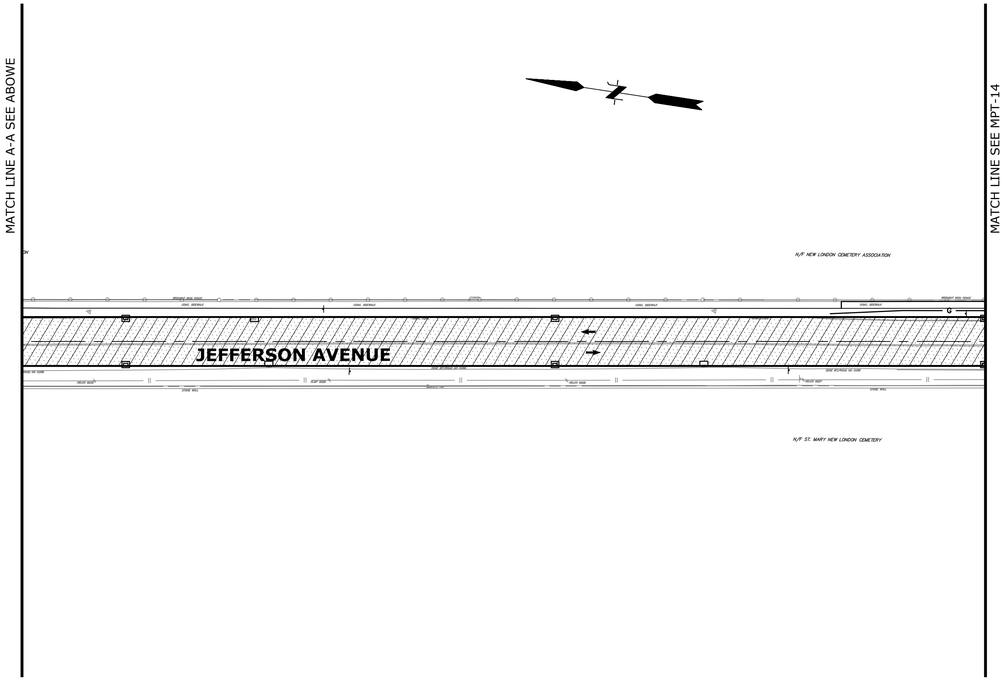
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MPT-12

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MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB





SIGN LEGEND

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
A	80-1613 30"X24"	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	E	80-9958 36"X36"	SHOULDER CLOSED						
B	80-1619 48"X30"	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	F	80-9612 48"X24"	END ROAD WORK						
C	80-9916 48"X10"	JEFFERSON AVE	X	31-1906 48"X42"	ROAD WORK AHEAD FINES DOUBLED						
D	80-9602 30"X30"	ROAD WORK AHEAD									

NOTE:

1. CONSTRUCTION STAGE SHOWN FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR TO IMPLEMENT NECESSARY CONSTRUCTION ZONES TO MAINTAIN AND PROTECT VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES DIRECTED BY THE ENGINEER AND/OR STARTED WITHIN SPECIAL PROVISION - 0971001A TO PERFORM DAILY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO MAINTAIN ALL COMMERCIAL AND/OR PRIVATE ACCESS AT ALL TIMES.
3. CONTRACTOR SHALL INSTALL AND MAINTAIN TRAVERSABLE RAMPS BETWEEN SUBBASE / GRAVEL AND PAVEMENT AREAS.
4. CONTRACTOR TO UTILIZE ROADWAY DIVIDER DELINEATORS AND SIGNS AS NECESSARY.

PHASE 7 LEGEND:

- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- SIGN
- TRAFFIC DRUM
- TRAFFIC CONE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAVEL

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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GRAPHIC SCALE

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MAINTENANCE & PROTECTION OF TRAFFIC PLAN PHASE 7

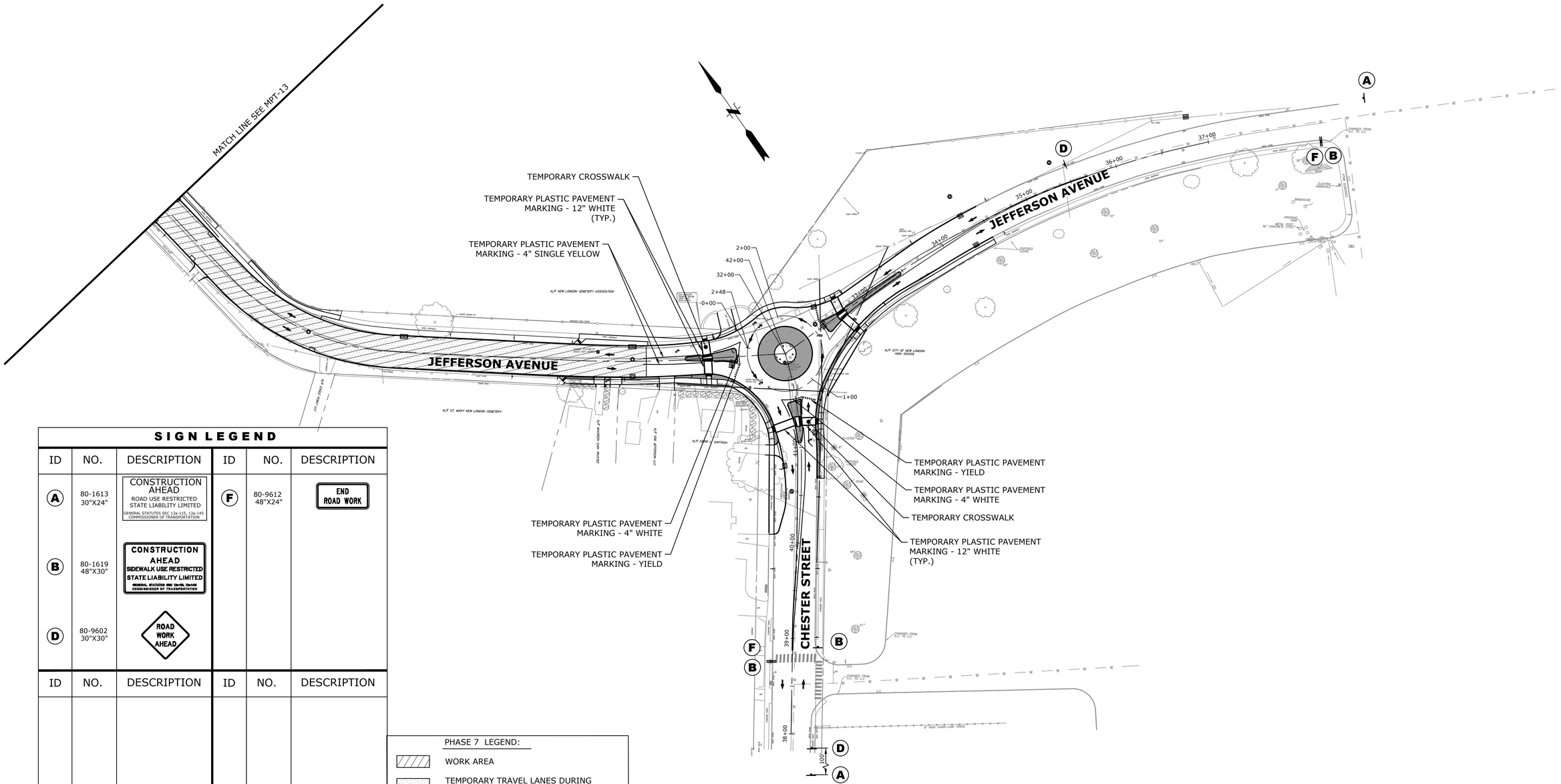
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MPT-13

File Path: J:\DWG\P2017\0353\A20\Civil\Plan\20170353A20_MPT01.dwg Layout: MPT-13-PH7 Plotted: Wed, January 26, 2022 - 9:05 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:



SIGN LEGEND

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
A	80-1613 30"X24"	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	F	80-9612 48"X24"	END ROAD WORK
B	80-1619 48"X30"	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION			
D	80-9602 30"X30"	ROAD WORK AHEAD			
ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION

PHASE 7 LEGEND:

- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- SIGN
- TRAFFIC DRUM
- TRAFFIC CONE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAVEL

NOTE:

1. CONSTRUCTION STAGE SHOWN FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR TO IMPLEMENT NECESSARY CONSTRUCTION ZONES TO MAINTAIN AND PROTECT VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES DIRECTED BY THE ENGINEER AND/OR STARTED WITHIN SPECIAL PROVISION - 0971001A TO PERFORM DAILY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO MAINTAIN ALL COMMERCIAL AND/OR PRIVATE ACCESS AT ALL TIMES.
3. CONTRACTOR SHALL INSTALL AND MAINTAIN TRAVERSABLE RAMPS BETWEEN SUBBASE / GRAVEL AND PAVEMENT AREAS.
4. CONTRACTOR TO UTILIZE ROADWAY DIVIDER DELINEATORS AND SIGNS AS NECESSARY.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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GRAPHIC SCALE

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CITY OF NEW LONDON

MAINTENANCE & PROTECTION OF TRAFFIC PLAN PHASE 7

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

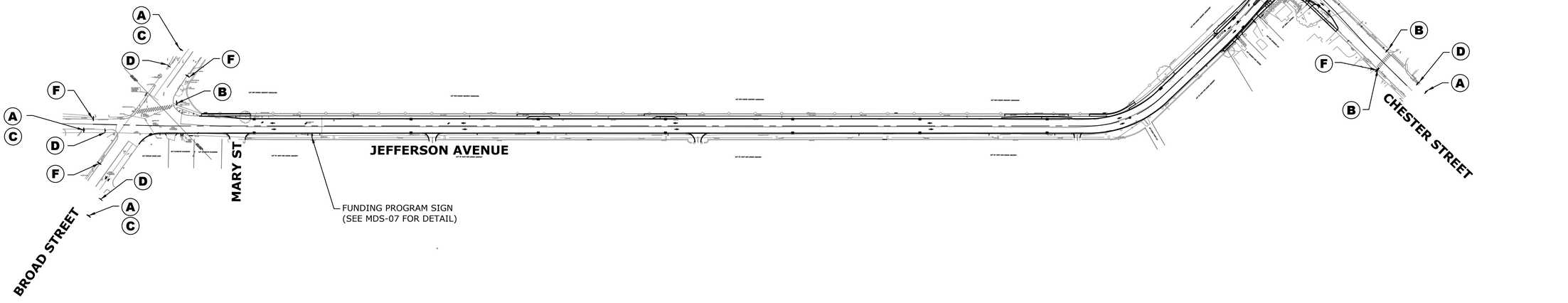
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MPT-14

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

SIGN LEGEND

ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION	ID	NO.	DESCRIPTION
A	80-1613 30"X24"	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	F	80-9612 48"X24"	END ROAD WORK						
B	80-1619 48"X30"	CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION									
C	80-9916 48"X10"	JEFFERSON AVE									
D	80-9602 30"X30"	ROAD WORK AHEAD									



NOTE:

1. CONSTRUCTION STAGE SHOWN FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR TO IMPLEMENT NECESSARY CONSTRUCTION ZONES TO MAINTAIN AND PROTECT VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES DIRECTED BY THE ENGINEER AND/OR STARTED WITHIN SPECIAL PROVISION - 0971001A TO PERFORM DAILY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO MAINTAIN ALL COMMERCIAL AND/OR PRIVATE ACCESS AT ALL TIMES.
3. FINAL WEARING COURSE (HMA S0.5) TO BE INSTALLED AND OVERLAID WITHIN PHASE 8.
4. CONTRACTOR TO APPLY FINAL EPOXY RESIN PAVEMENT MARKINGS AFTER FINAL SURFACE COURSE HAS BEEN APPLIED. SEE PVT DRAWINGS FOR ADDITIONAL INFORMATION.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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GRAPHIC SCALE

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MAINTENANCE & PROTECTION OF TRAFFIC PLAN
PHASE 8

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

MPT-15

File Path: J:\DWG\P2017\0353\A20\Civil\Plan\20170353A20_MPT01.dwg Layout: MPT-15-PH8 Plotted: Wed, January 26, 2022 - 9:05 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

SIGN LEGEND

A	DETOUR TO RTE.1 (COLMAN ST) ↑ JEFFERSON AVE CLOSED AHEAD	G	DETOUR
B	DETOUR TO RTE.1 (COLMAN ST) → JEFFERSON AVE CLOSED AHEAD	H	END DETOUR
C	COLMAN STREET	I	↑
D	CHESTER STREET	J	→
E	ROAD CLOSED XX/XX TO XX/XX	K	←
F	JEFFERSON AVE CLOSED AHEAD XX/XX TO XX/XX		

SYMBOL LEGEND

- CONSTRUCTION SIGN
- TYPE III BARRICADE

NOTES

1. THIS DETOUR PLAN SHALL BE IMPLEMENTED WITH MPT PHASE 5; SEE SHEETS MPT-09 AND MPT-10.
2. PHASE 5 AND THIS DETOUR SHALL BE IMPLEMENTED DURING SCHOOL VACATIONS AND NOT WHILE SCHOOL IS IN SESSION.
3. THE CONTRACTORS COORDINATE WITH THE NEW LONDON HIGH SCHOOL RENOVATION TEAM.

PROJECT LOCATION

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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SCALE:
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GRAPHIC SCALE

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CITY OF NEW LONDON

DETOUR PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

DTR-01

File Path: J:\DWG\P20170353A20\Civil\Plan\20170353A20_MPT02.dwg Layout: DTR-01 Plotted: Wed, January 26, 2022 - 9:07 AM User: stanski
MS VIEW: LAYER STATE:
Plotter: DWG TO PDF.PC3 CTB File: FO.STB

SIGN LEGEND

A	DETOUR TO RTE.1 (COLMAN ST) ↑ JEFFERSON AVE CLOSED AHEAD	G	DETOUR
B	DETOUR TO RTE.1 (COLMAN ST) → JEFFERSON AVE CLOSED AHEAD	H	END DETOUR
C	COLMAN STREET	I	↑
D	CHESTER STREET	J	→
E	ROAD CLOSED XX/XX TO XX/XX	K	←
F	JEFFERSON AVE CLOSED AHEAD XX/XX TO XX/XX	L	TRUCKS ONLY CUSTOM 24"W x 18"H
		M	TRUCKS CUSTOM 24"W x 36"H

SYMBOL LEGEND

- CONSTRUCTION SIGN
- TYPE III BARRICADE

NOTES

1. THIS DETOUR PLAN SHALL BE IMPLEMENTED WITH MPT PHASE 6; SEE SHEETS MPT-11 AND MPT-12.
2. THE CONTRACTORS COORDINATE WITH THE NEW LONDON HIGH SCHOOL RENOVATION TEAM.

PROJECT LOCATION

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

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DATUM:
HORZ.:
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GRAPHIC SCALE

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CITY OF NEW LONDON

TRUCK DETOUR PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

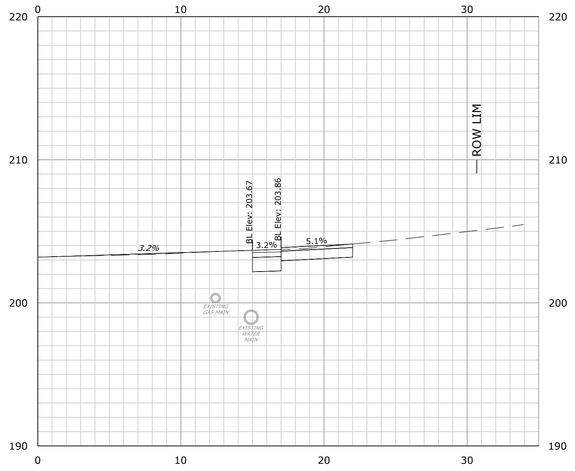
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DATE: FEBRUARY 2022

DTR-02

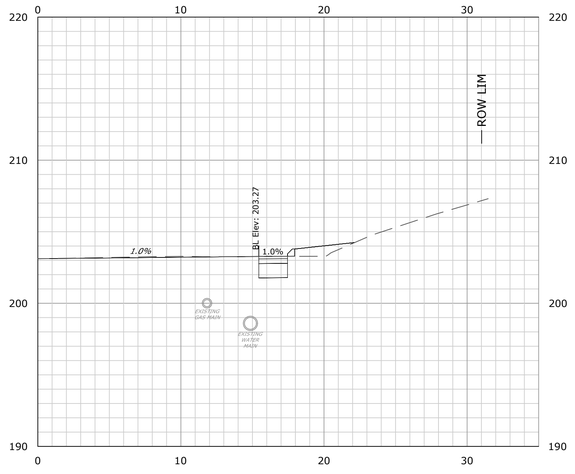
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MS VIEW: LAYER STATE:
Plotter: DWG TO PDF.PC3 CTB File: FO.STB

NOTES:

1. ALL ELEVATIONS AND OFFSETS ARE GIVEN AT THE FACE OF CURBING AND APPLIED TO THE PROPOSED GUTTER ELEVATION
2. THE LOCATION (HORIZONTAL & VERTICAL) OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND SHOULD BE INVESTIGATED BY THE CONTRACTOR BEFORE COMMENCING CONSTRUCTION
3. UNDERGROUND WATER AND GAS PIPE DIAMETERS ARE ASSUMED AND ARE DEPICTED FOR INFORMATIONAL PURPOSES ONLY
4. REFER TO TYPICAL SECTIONS FOR A LEGEND OF MATERIALS AND THICKNESSES
5. CONTRACTOR TO VERIFY INVERT ELEVATIONS



4+35



4+05

STA. 4+05 TO STA. 4+35

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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SEAL

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SCALE:
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GRAPHIC SCALE

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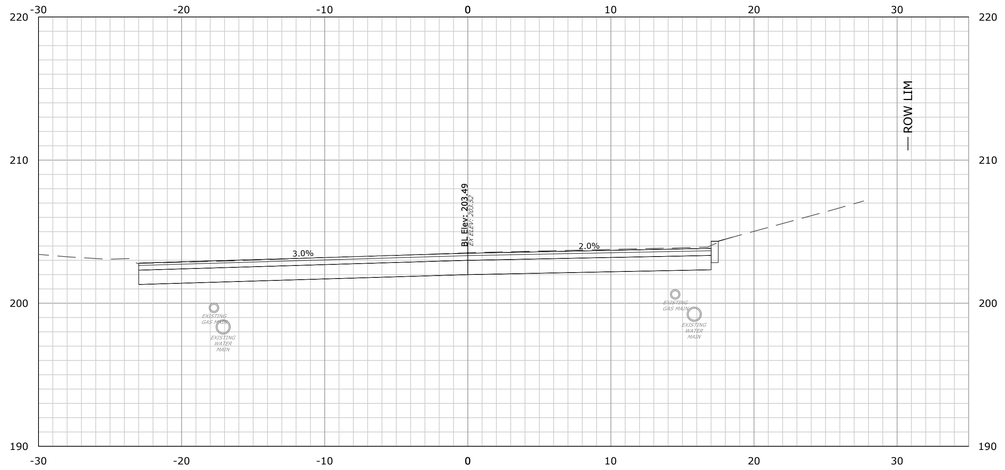
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

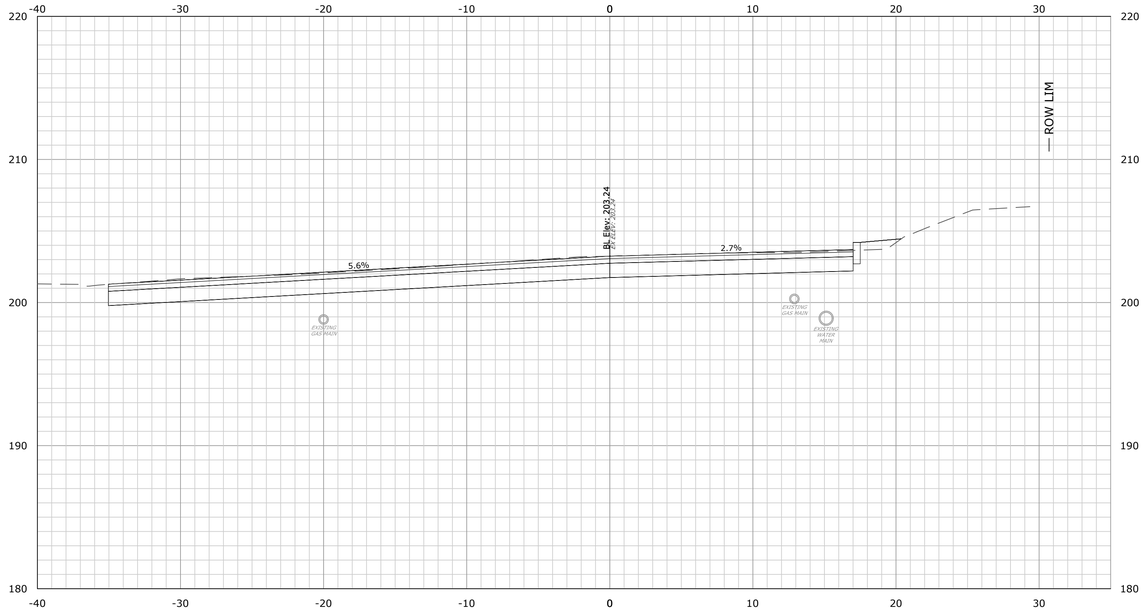
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-01



5+00



4+50

STA. 4+50 TO STA. 5+00

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CITY OF NEW LONDON

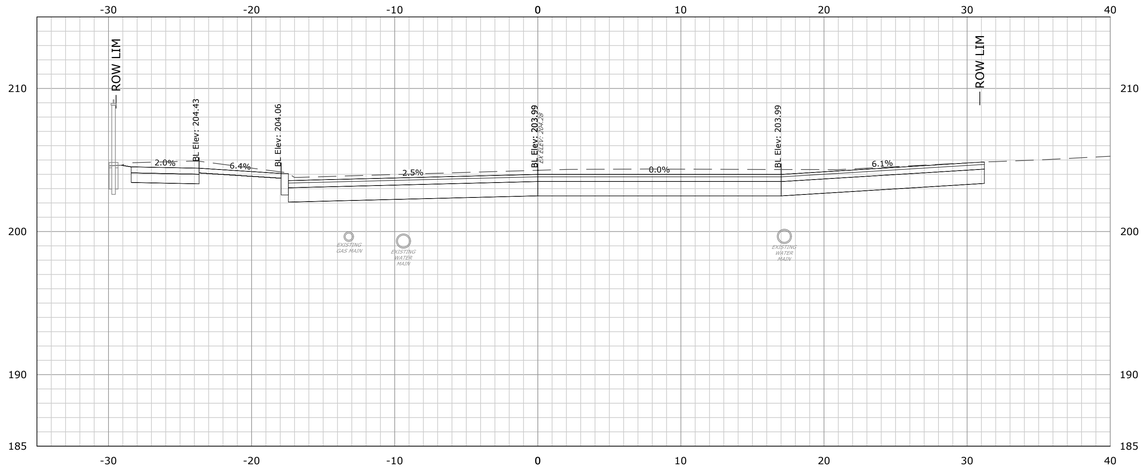
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

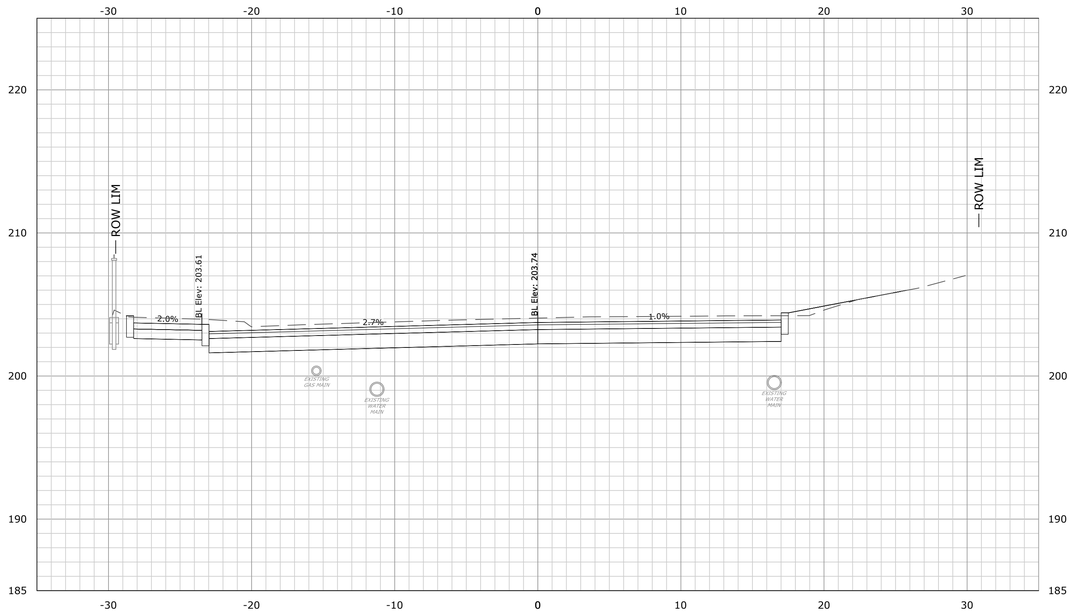
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-02



6+00



5+50

STA. 5+50 TO STA. 6+00

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

CITY OF NEW LONDON

CROSS SECTIONS
JEFFERSON AVENUE

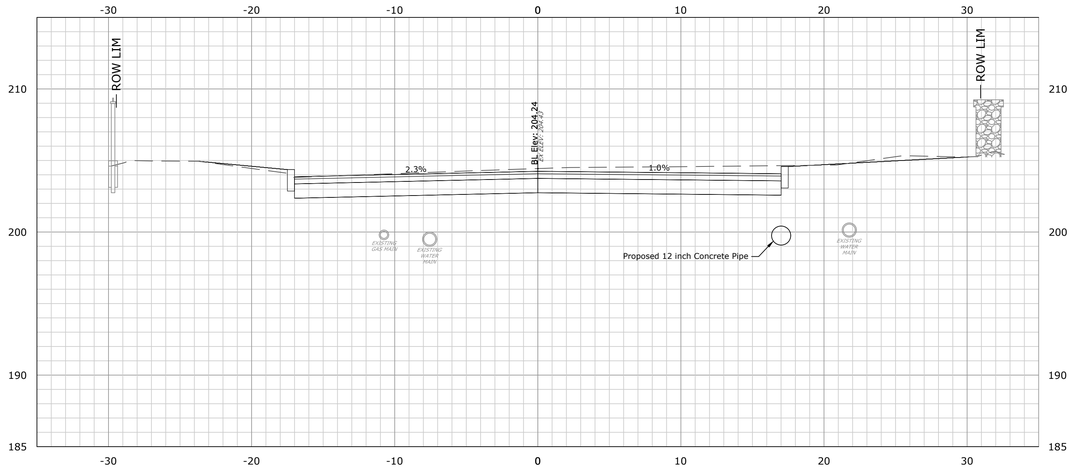
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

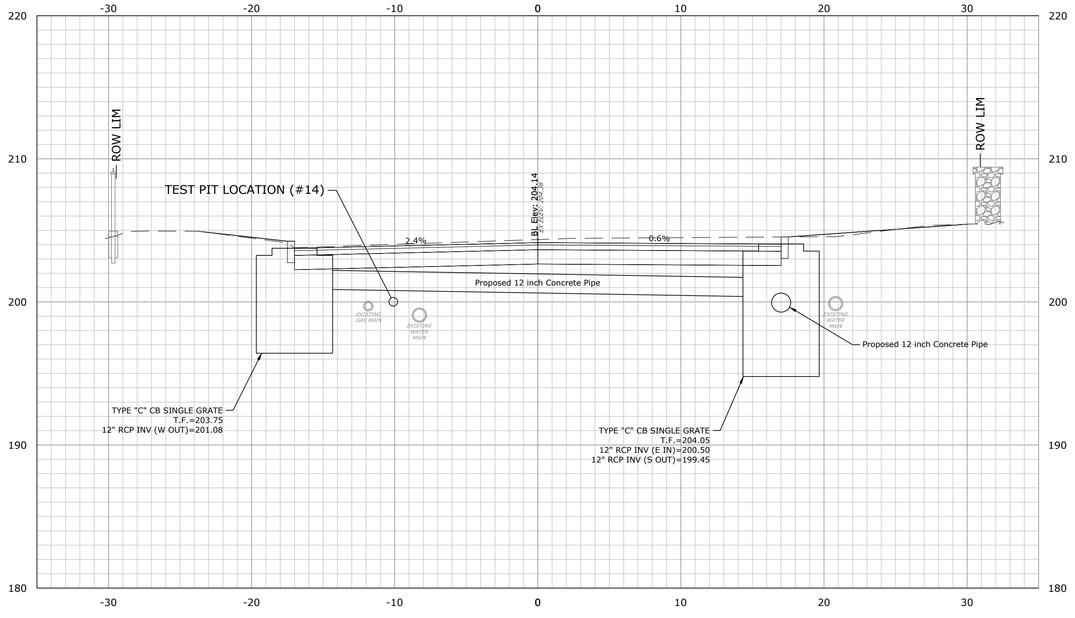
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-03

File Path: J:\DWG\P2017\0353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-03 Plotted: Wed, January 26, 2022 - 9:10 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:



6+50



6+30

STA. 6+30 TO STA. 6+50

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-04 Plotted: Wed, January 26, 2022 - 9:11 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
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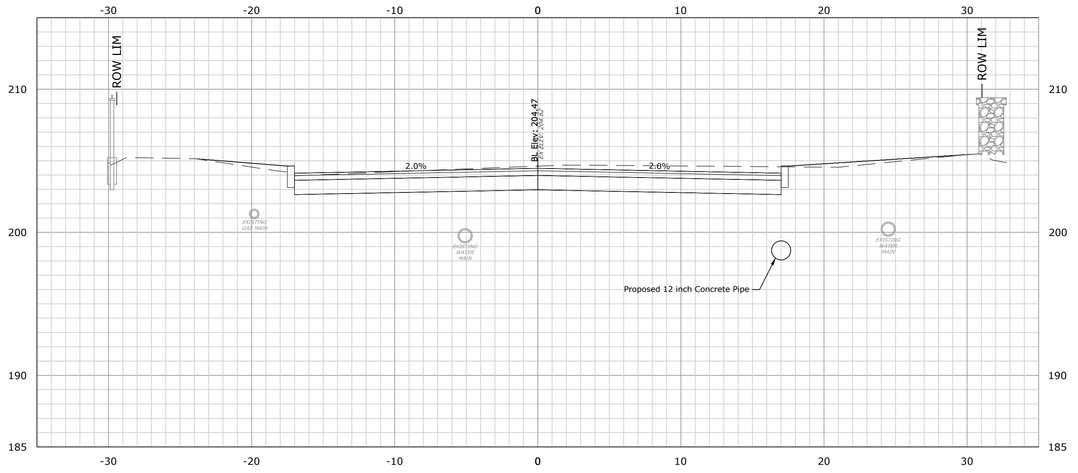
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

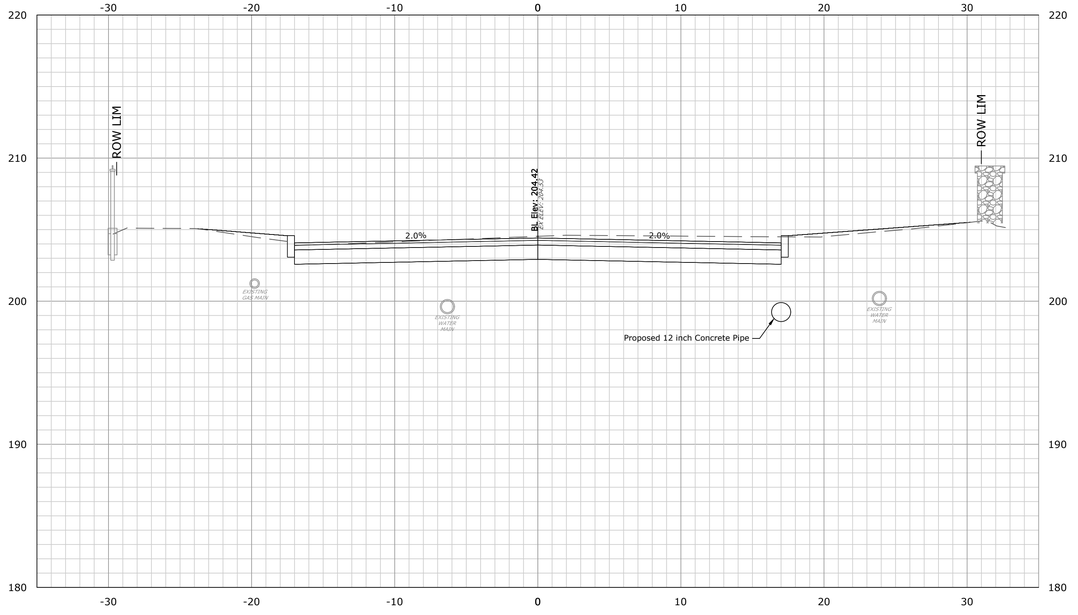
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-04



7+50



7+00

STA. 7+00 TO STA. 7+50

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-05 Plotted: Wed, January 26, 2022 - 9:11 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

FUSS & O'NEILL
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MANCHESTER, CONNECTICUT 06040
860.646.2469
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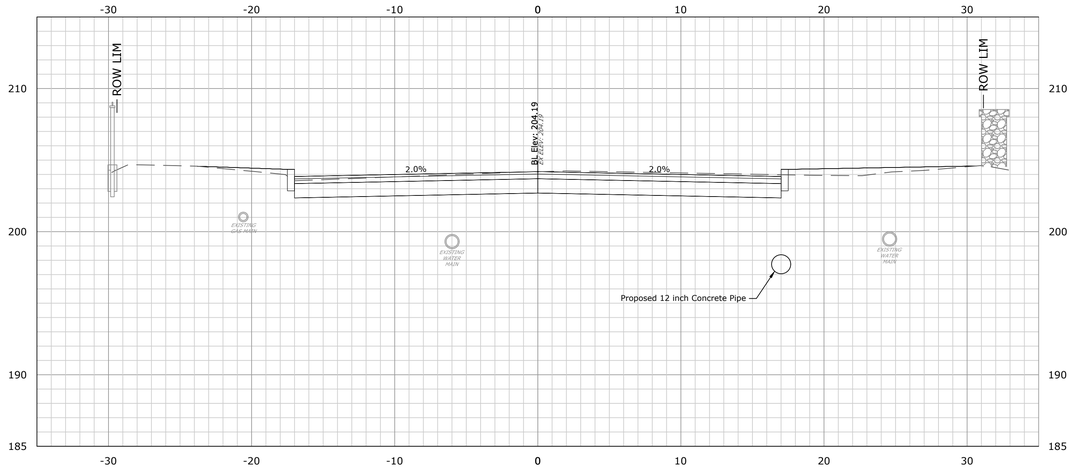
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

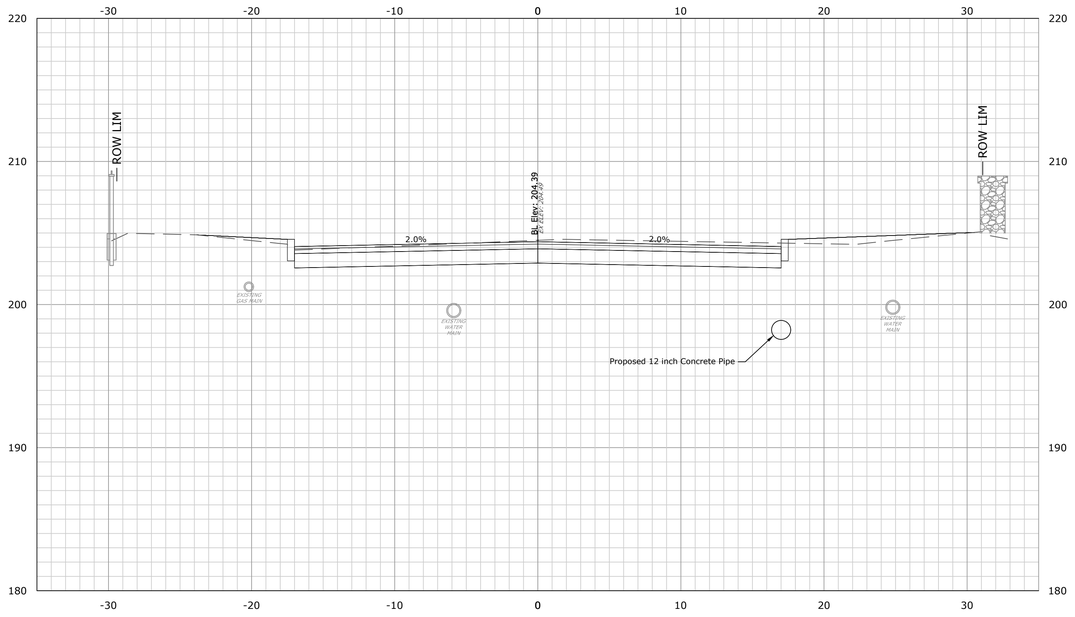
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-05



8+50



8+00

STA. 8+00 TO STA. 8+50

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-06 Plotted: Wed, January 26, 2022 - 9:11 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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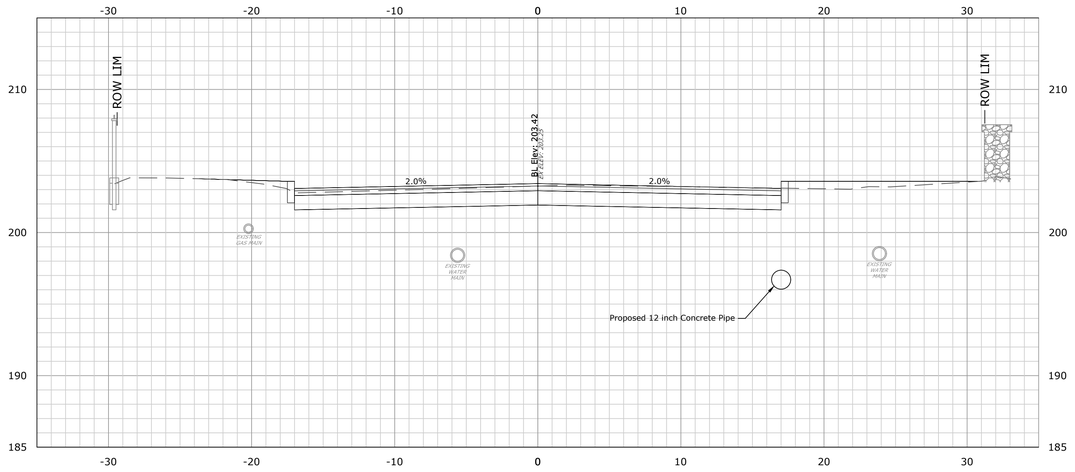
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

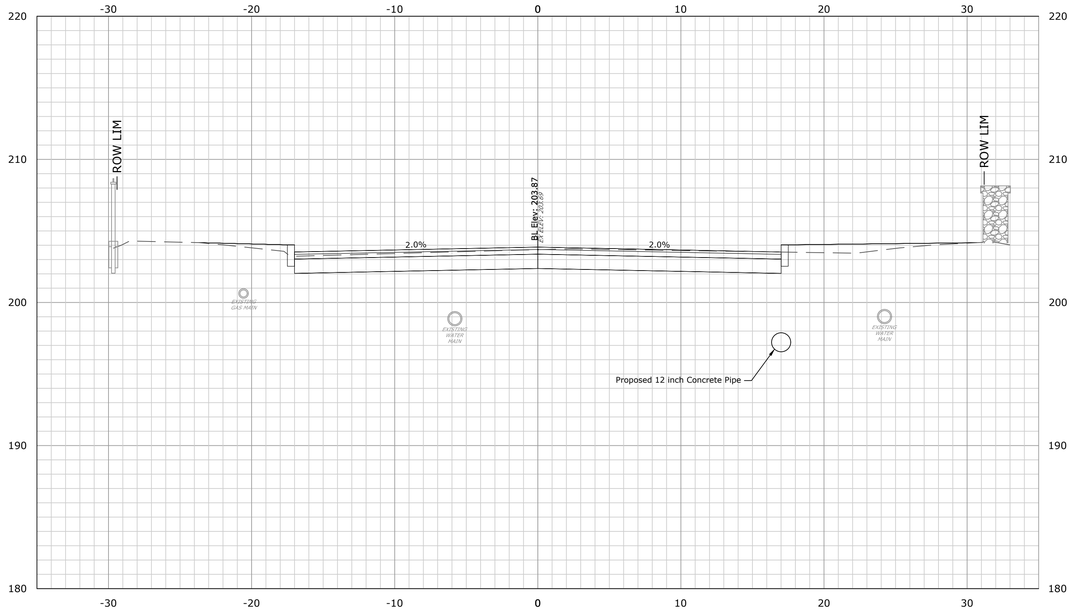
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-06



9+50



9+00

STA. 9+00 TO STA. 9+50

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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CROSS SECTIONS
JEFFERSON AVENUE

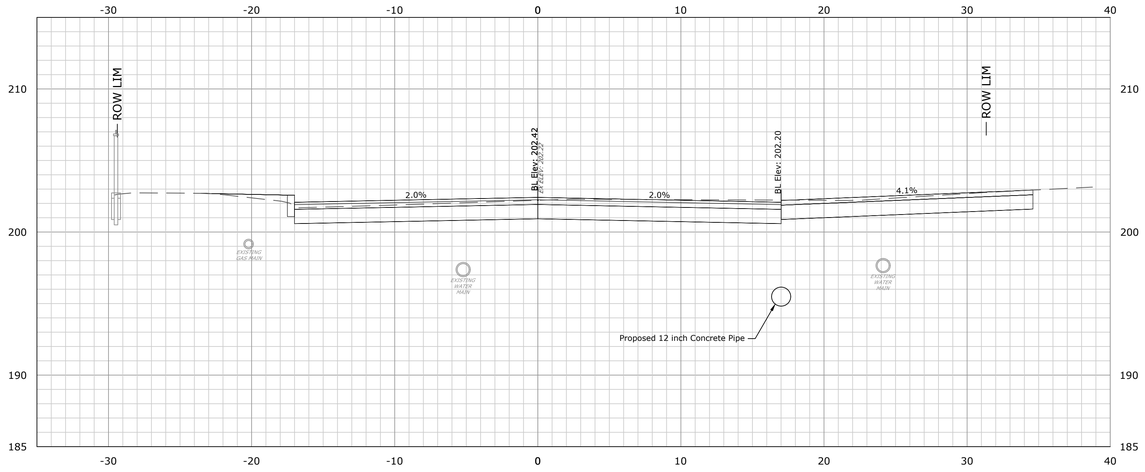
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

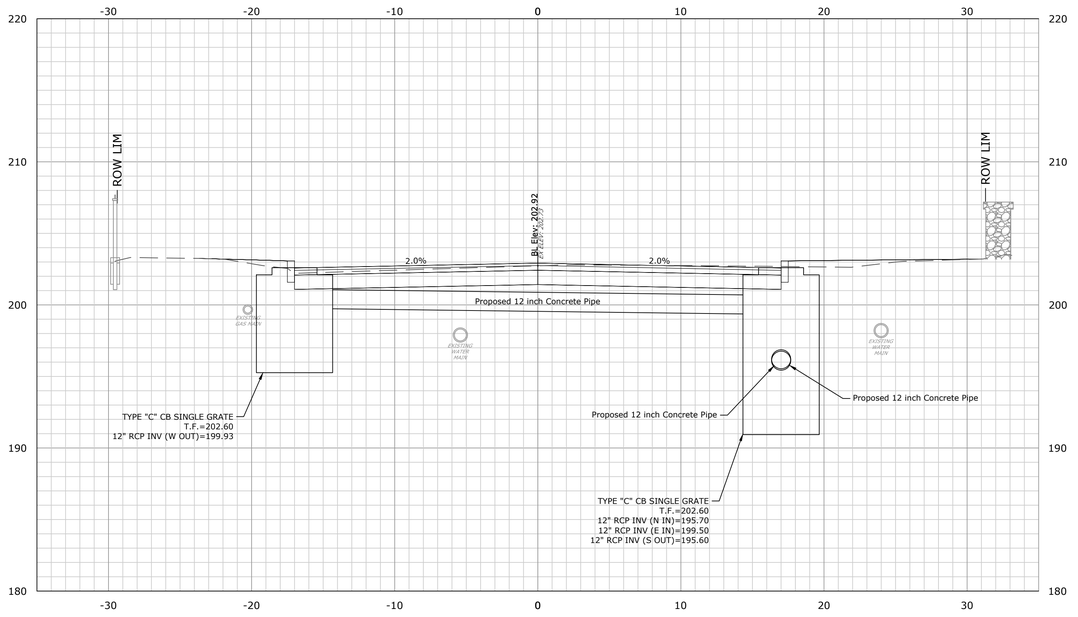
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-07

File Path: J:\DWG\P2017\0353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-07 Plotted: Wed, January 26, 2022 - 9:11 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



10+50



10+00

STA. 10+00 TO STA. 10+50

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-08 Plotted: Wed, January 26, 2022 - 9:11 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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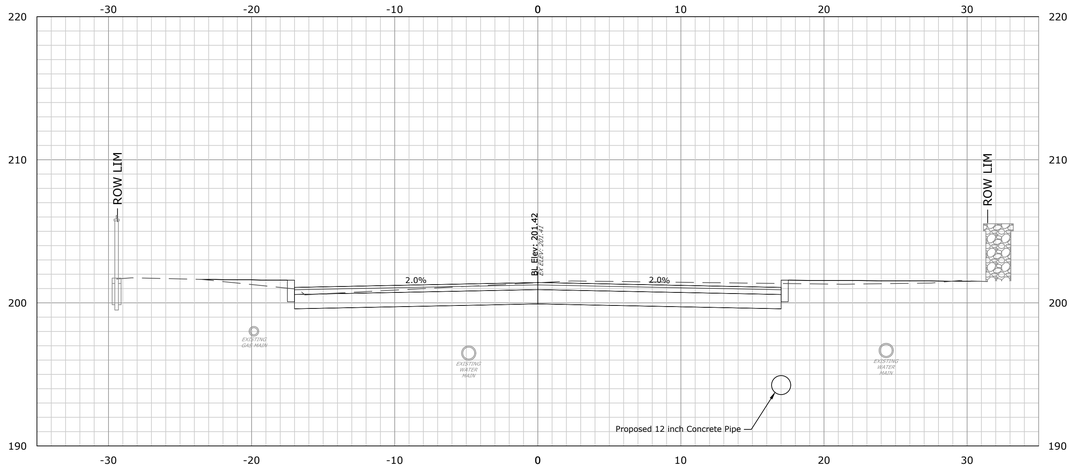
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

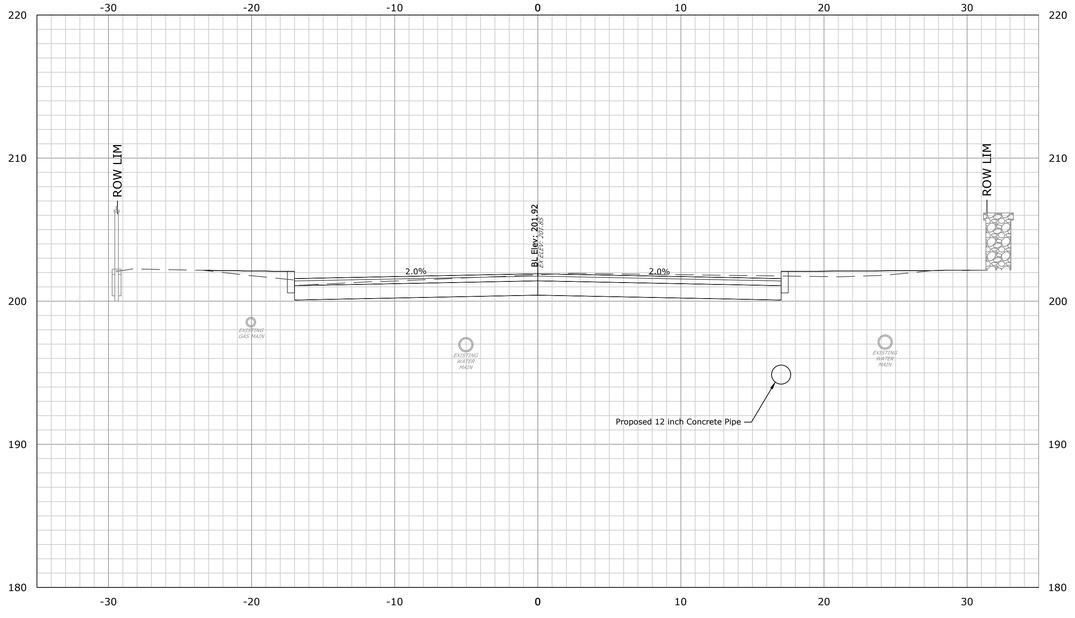
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-08



11+50



11+00

STA. 11+00 TO STA. 11+50

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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CROSS SECTIONS
JEFFERSON AVENUE

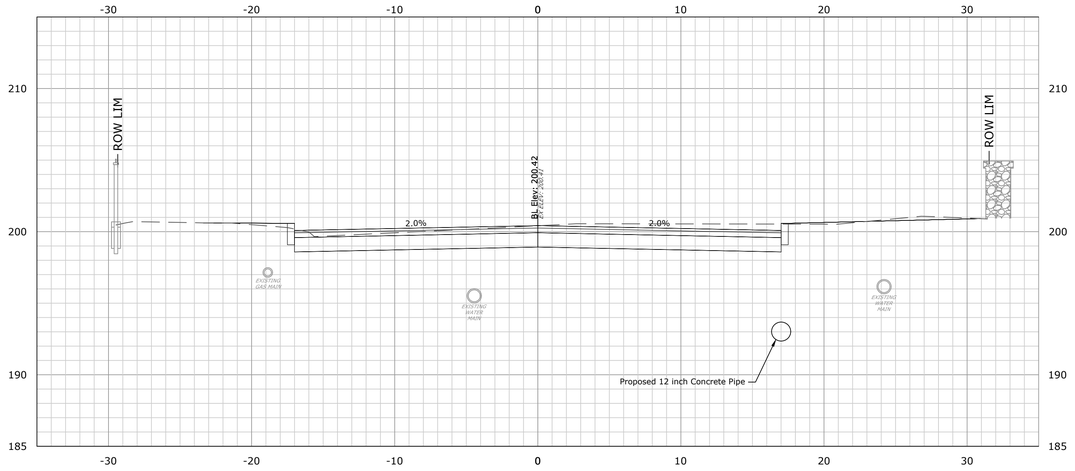
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-09

File Path: J:\DWG\P2017\0353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-09 Plotted: Wed, January 26, 2022 - 9:11 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



12+50

12+00

STA. 12+00 TO STA. 12+50

File Path: J:\DWG\P2017\0353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-10 Plotted: Wed, January 26, 2022 - 9:11 AM User: stanski
MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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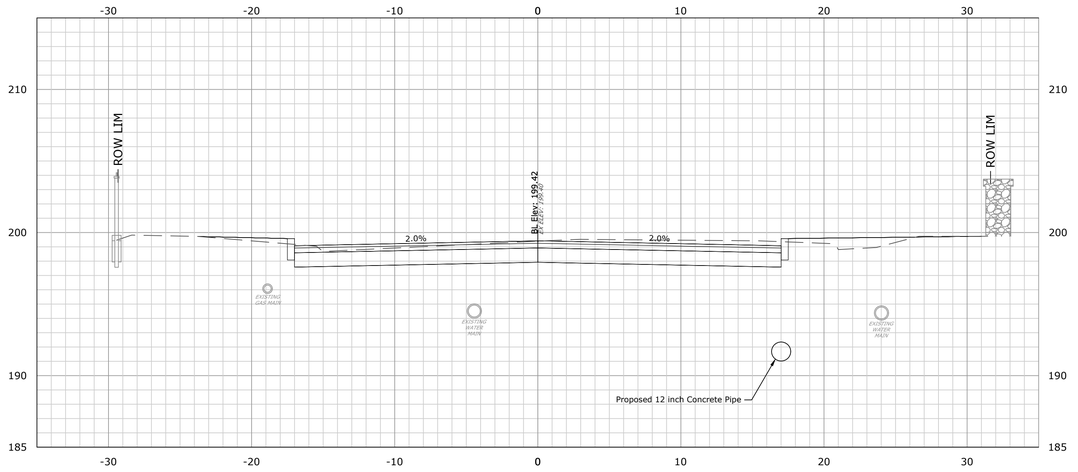
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

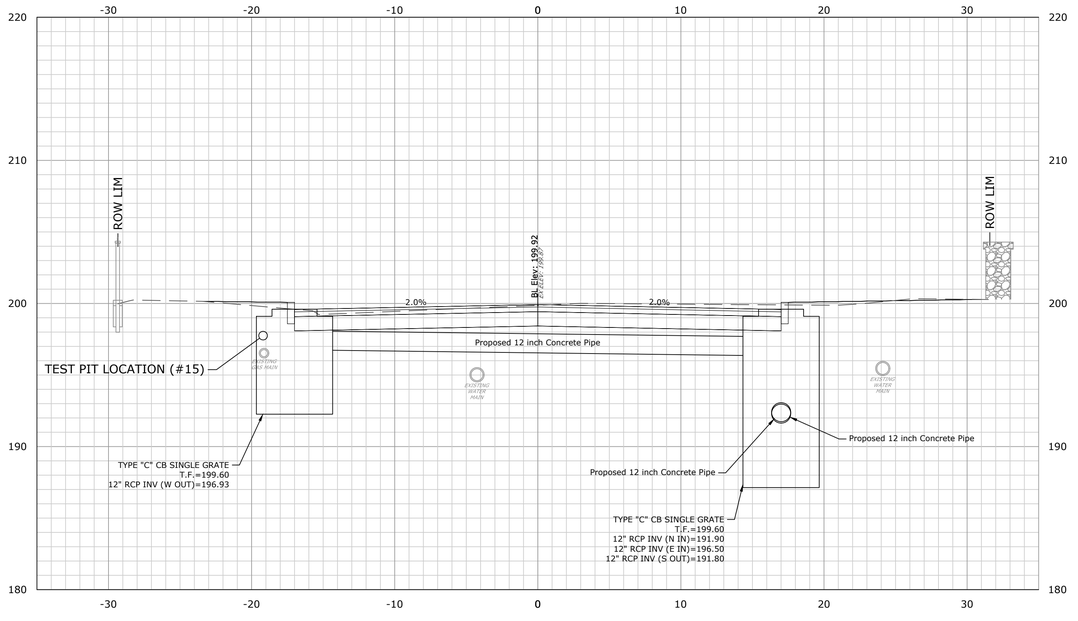
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-10



13+50



13+00

STA. 13+00 TO STA. 13+50

File Path: J:\DWG\P2017\0353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-11 Plotted: Wed, January 26, 2022 - 9:11 AM User: stanski
MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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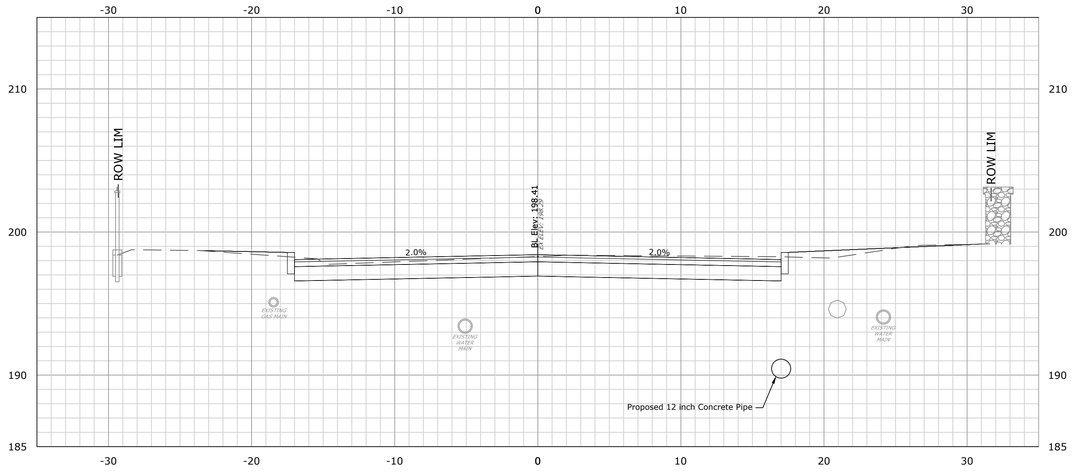
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JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

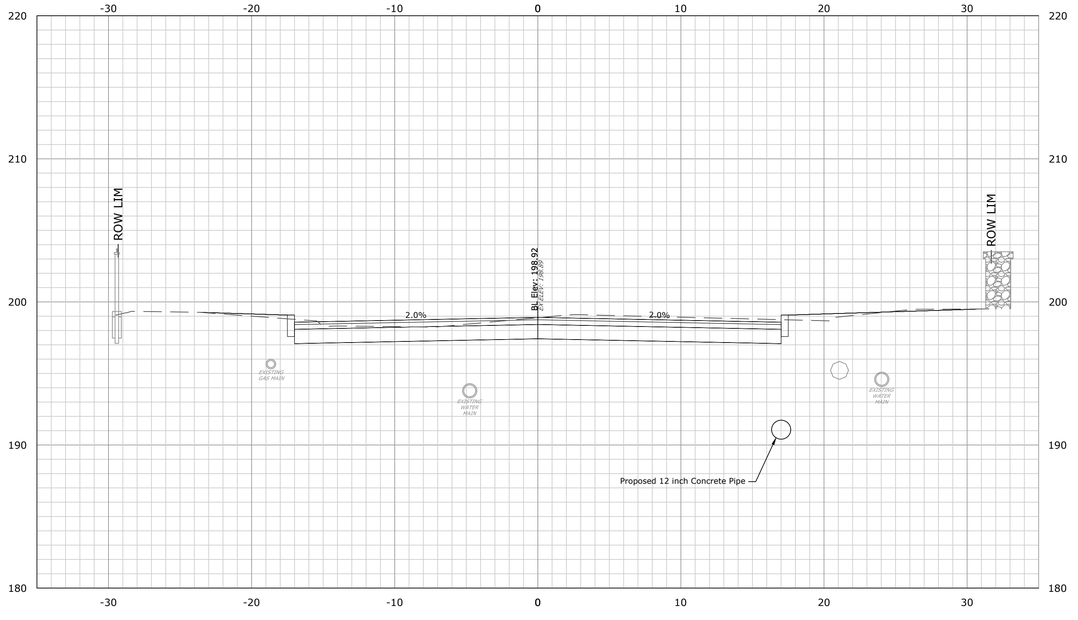
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-11



14+50



14+00

STA. 14+00 TO STA. 14+50

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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860.646.2469
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CITY OF NEW LONDON

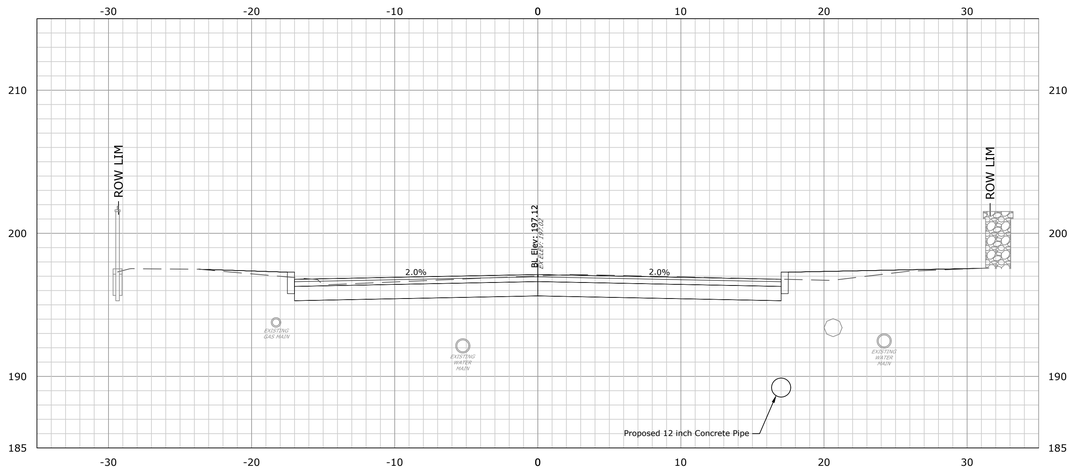
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

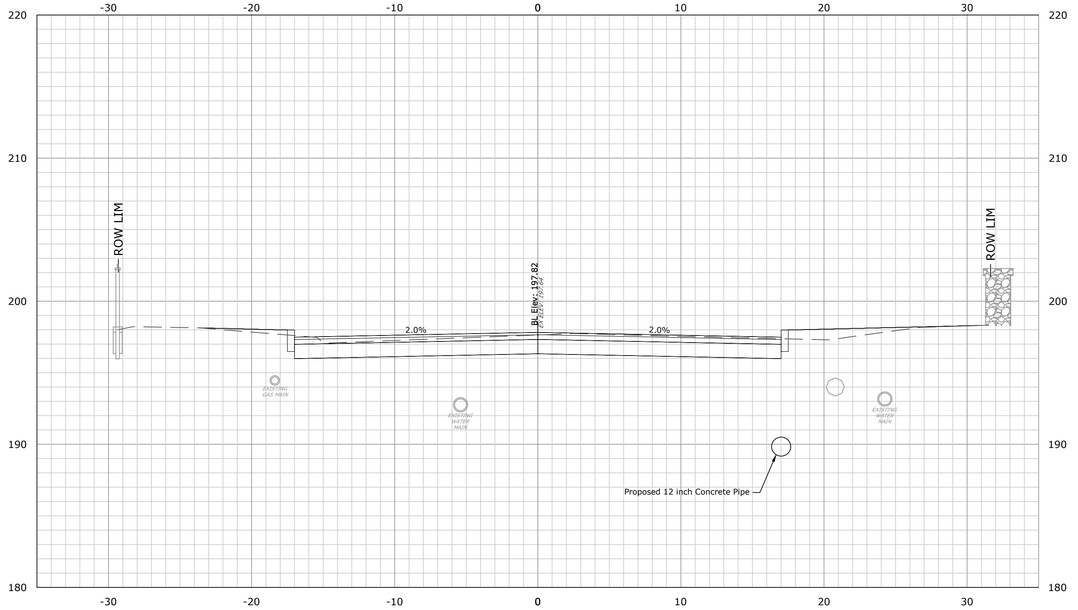
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-12



15+50



15+00

STA. 15+00 TO STA. 15+50

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-13 Plotted: Wed, January 26, 2022 - 9:12 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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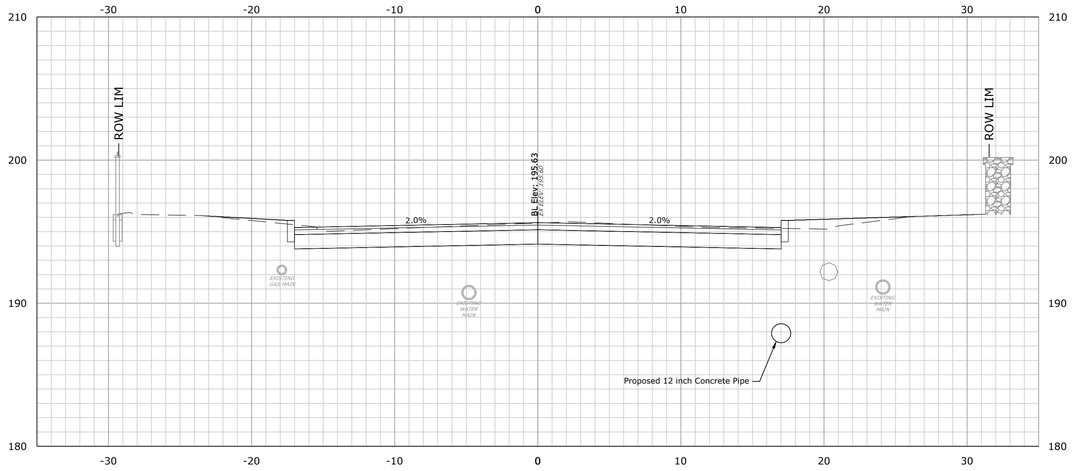
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-13



16+50

16+00

STA. 16+00 TO STA. 16+50

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-14 Plotted: Wed, January 26, 2022 - 9:12 AM User: stanski
MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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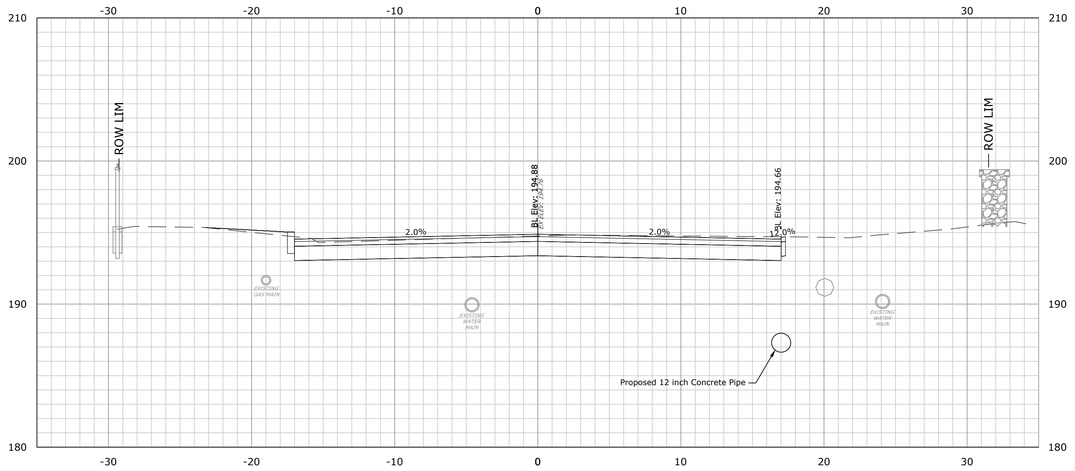
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

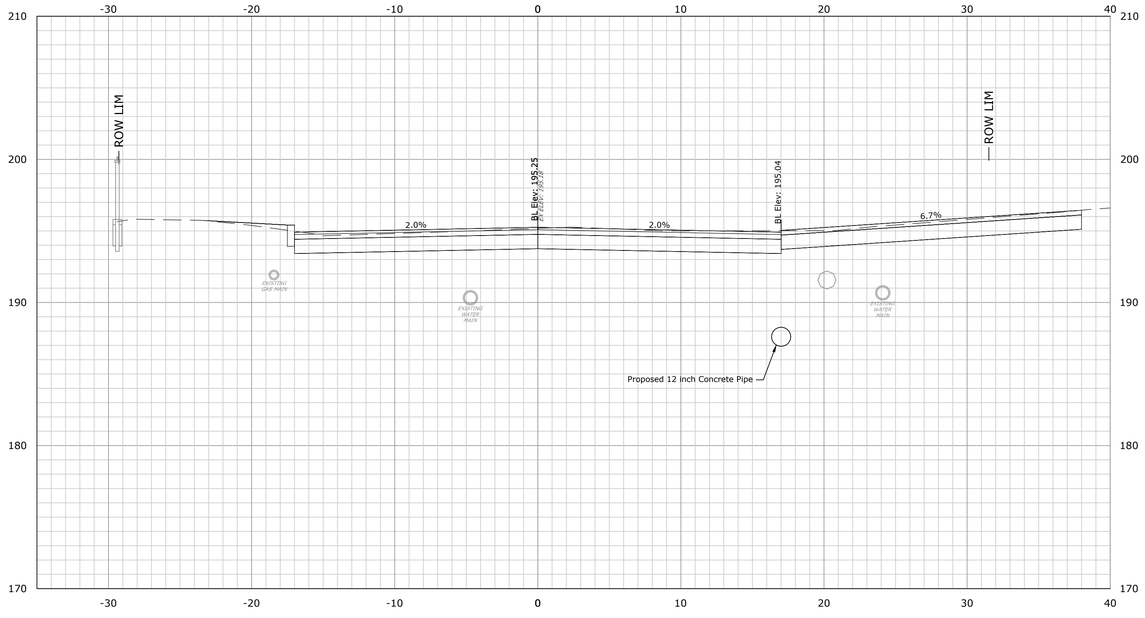
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-14



17+00



16+75

STA. 16+75 TO STA. 17+00

File Path: J:\DWG\P2017\0353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-15 Plotted: Wed, January 26, 2022 - 9:12 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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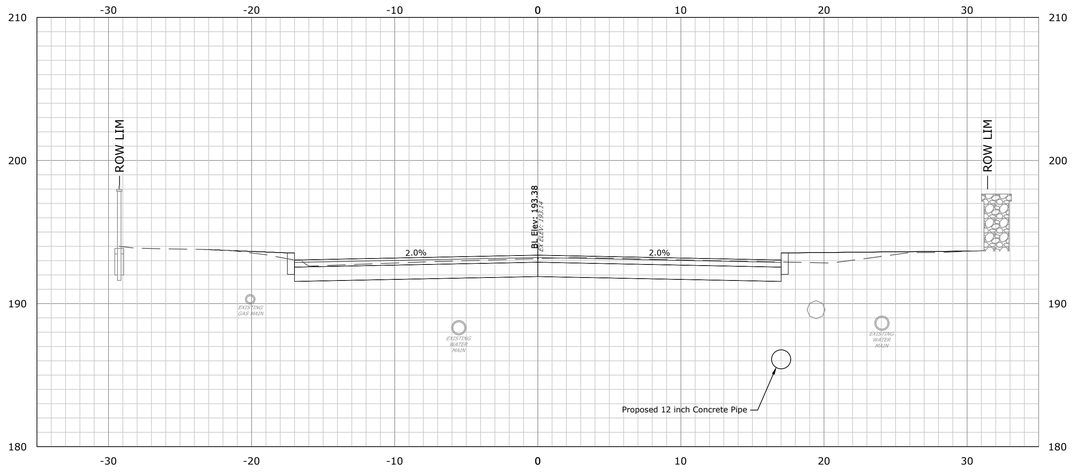
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

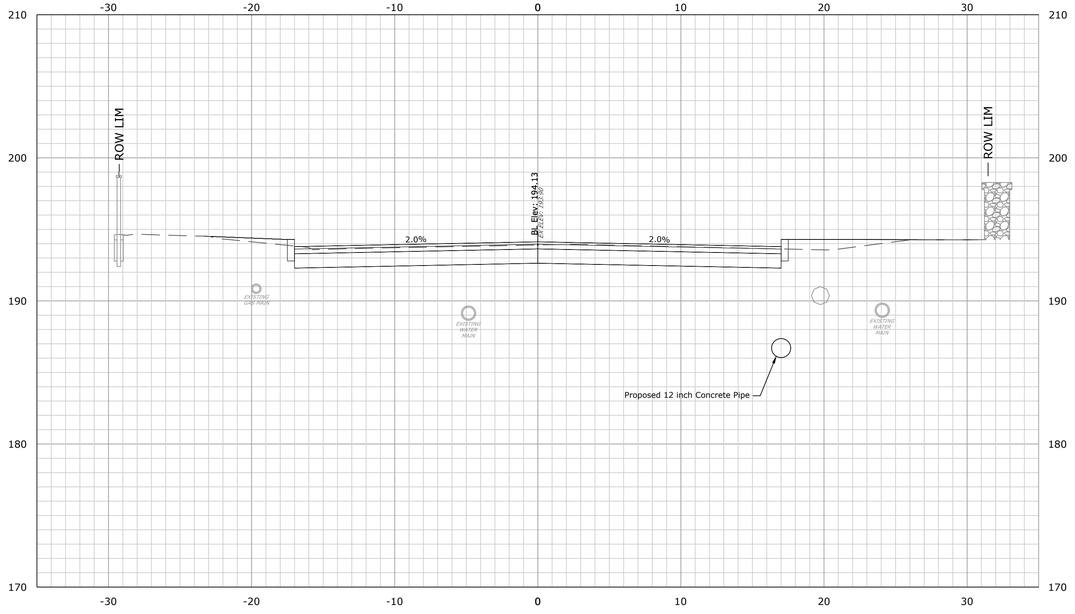
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-15



18+00



17+50

STA. 17+50 TO STA. 18+00

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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CROSS SECTIONS
JEFFERSON AVENUE

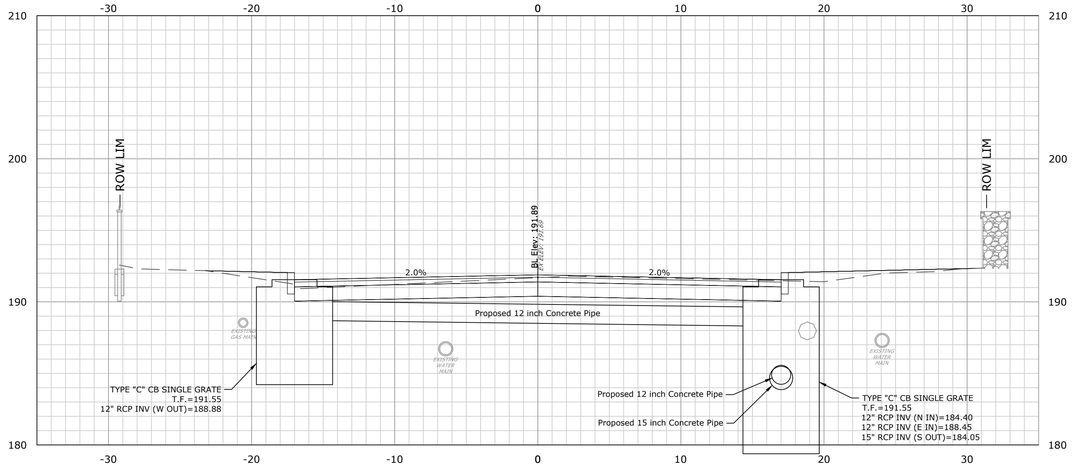
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

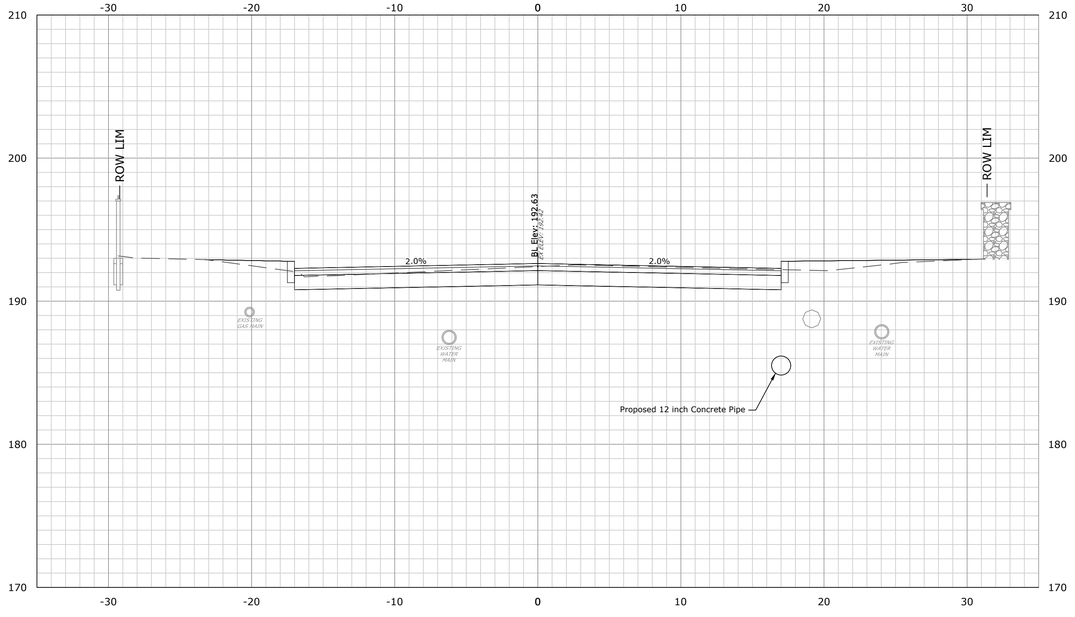
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-16

File Path: J:\DWG\P2017\0353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-16 Plotted: Wed, January 26, 2022 - 9:12 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



19+00



18+50

STA. 18+50 TO STA. 19+00

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-17 Plotted: Wed, January 26, 2022 - 9:12 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

CITY OF NEW LONDON

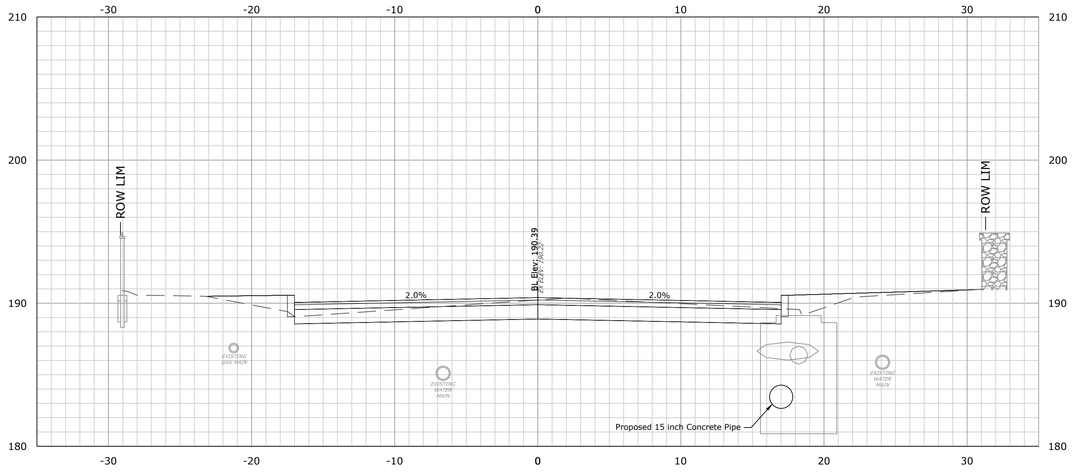
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

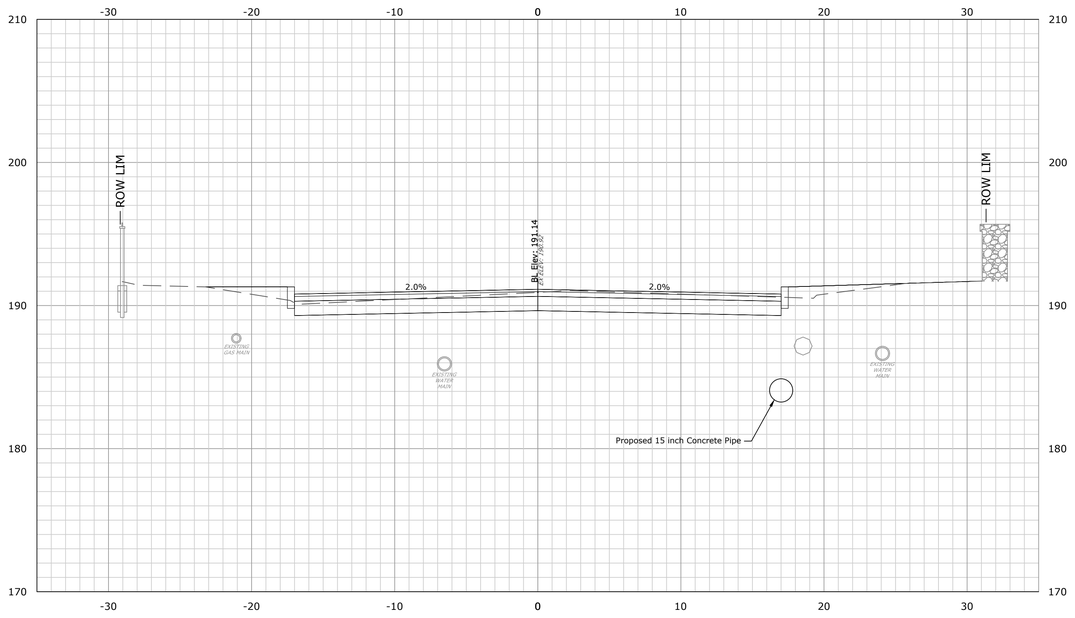
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-17



20+00



19+50

STA. 19+50 TO STA. 20+00

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-18 Plotted: Wed, January 26, 2022 - 9:12 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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MANCHESTER, CONNECTICUT 06040
860.646.2469
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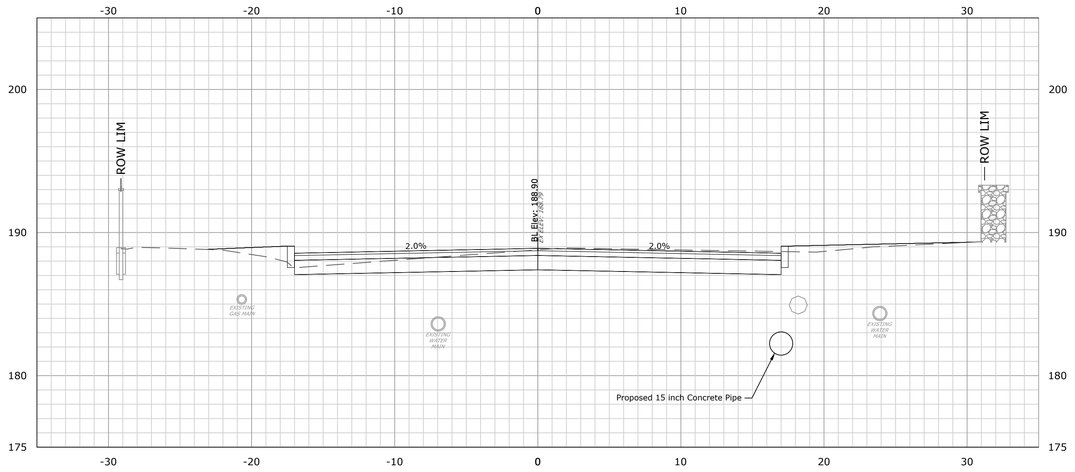
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

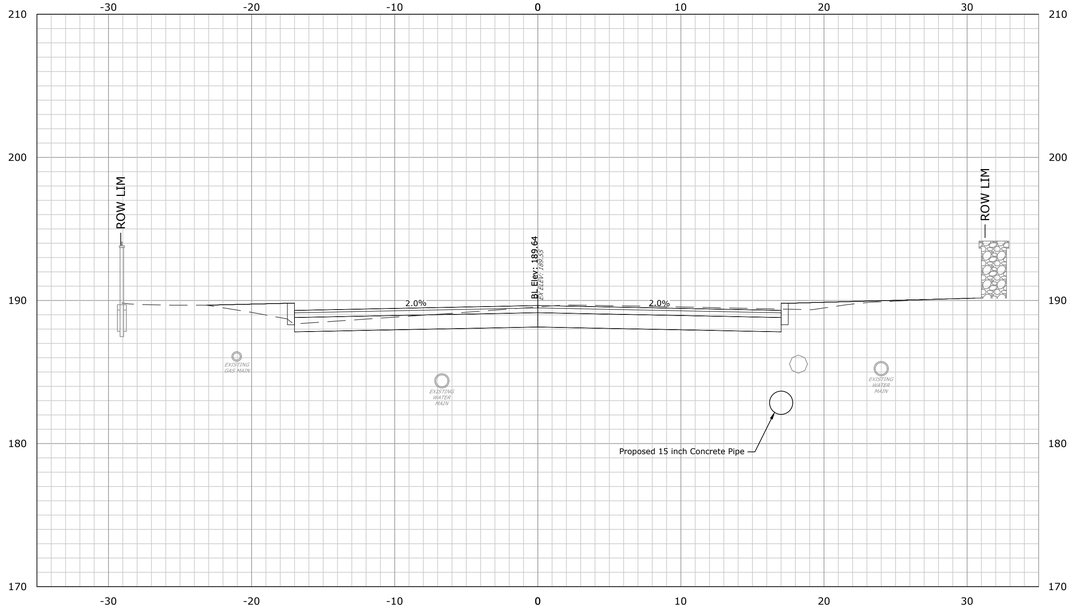
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-18



21+00



20+50

STA. 20+50 TO STA. 21+00

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-19 Plotted: Wed, January 26, 2022 - 9:13 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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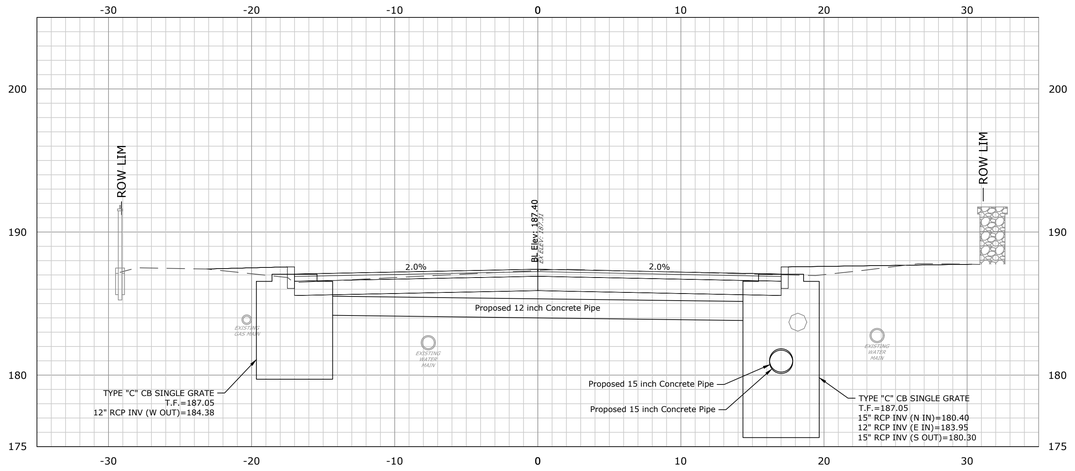
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

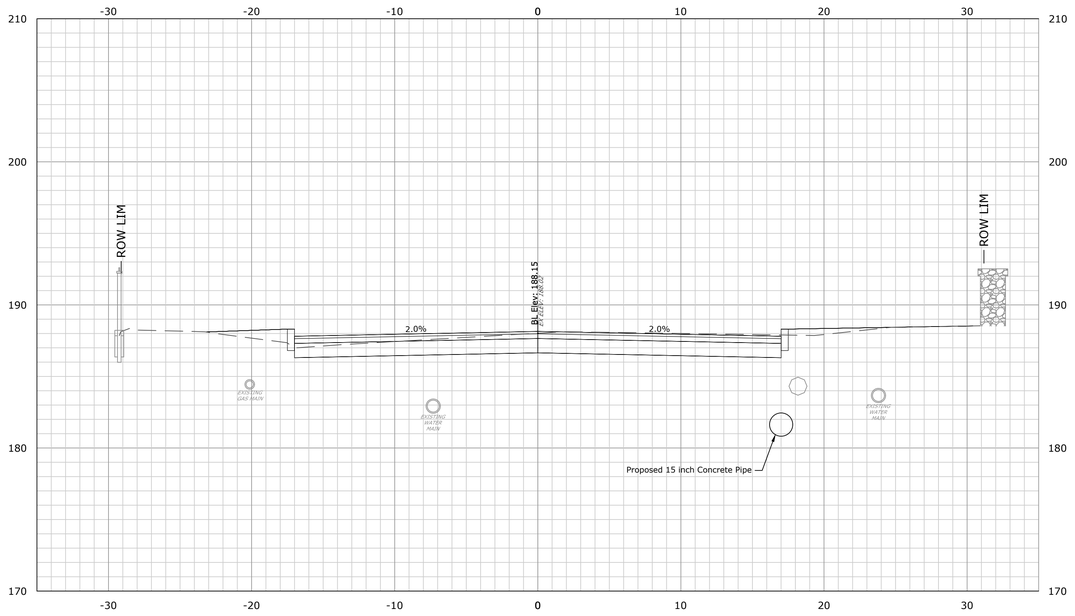
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-19



22+00



21+50

STA. 21+50 TO STA. 22+00

File Path: J:\DWGP\20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-20 Plotted: Wed, January 26, 2022 - 9:13 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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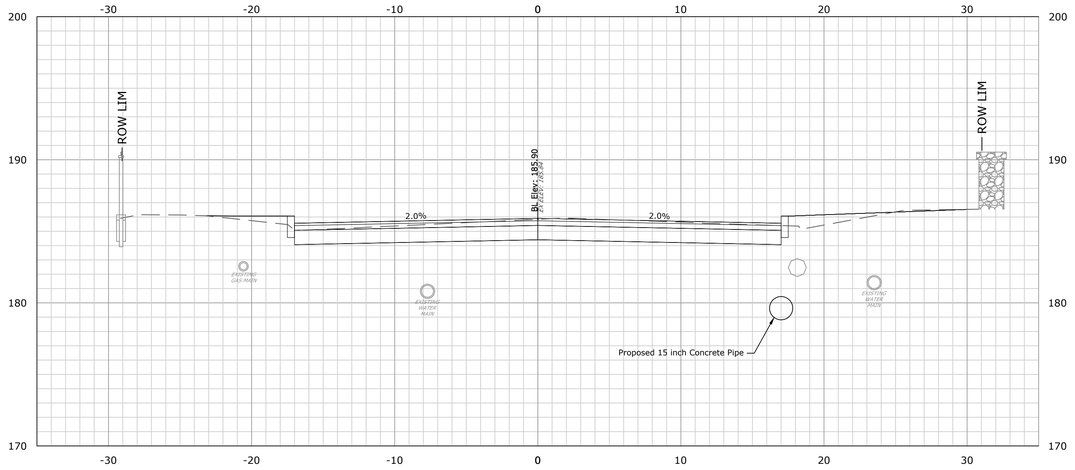
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

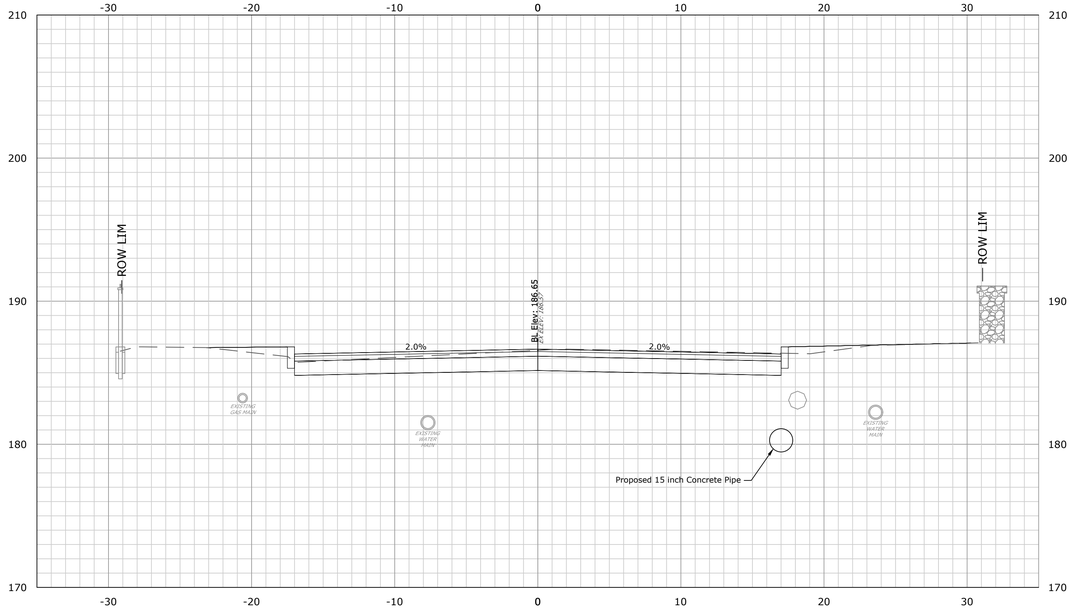
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-20



23+00



22+50

STA. 22+50 TO STA. 23+00

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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CROSS SECTIONS
JEFFERSON AVENUE

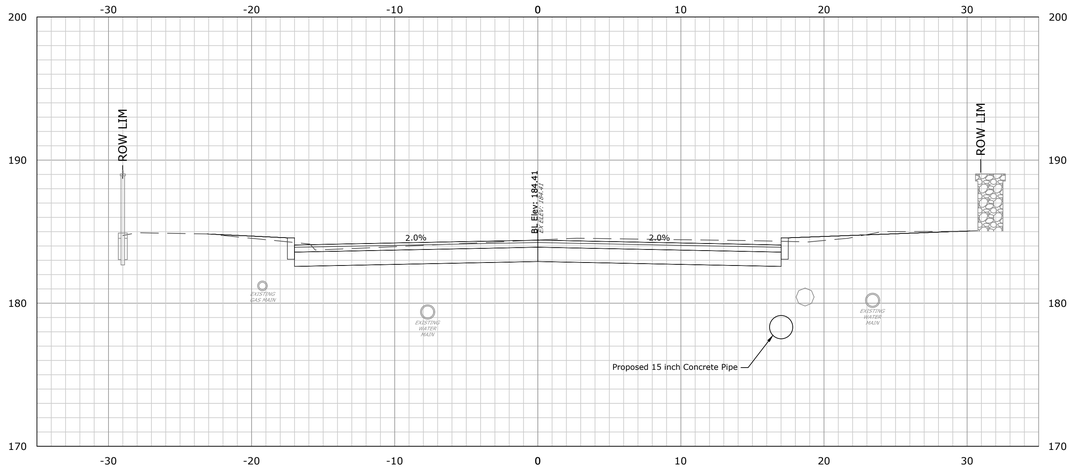
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

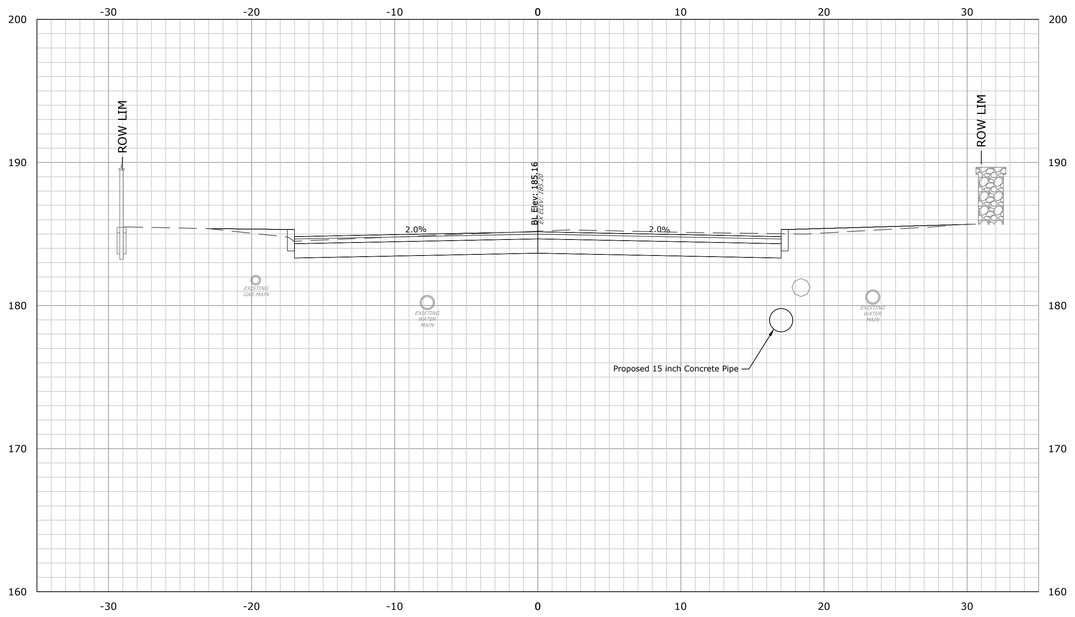
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-21

File Path: J:\DWG\P20170353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-21 Plotted: Wed, January 26, 2022 - 9:13 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:



24+00



23+50

STA. 23+50 TO STA. 24+00

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-22 Plotted: Wed, January 26, 2022 - 9:13 AM User: stanski
MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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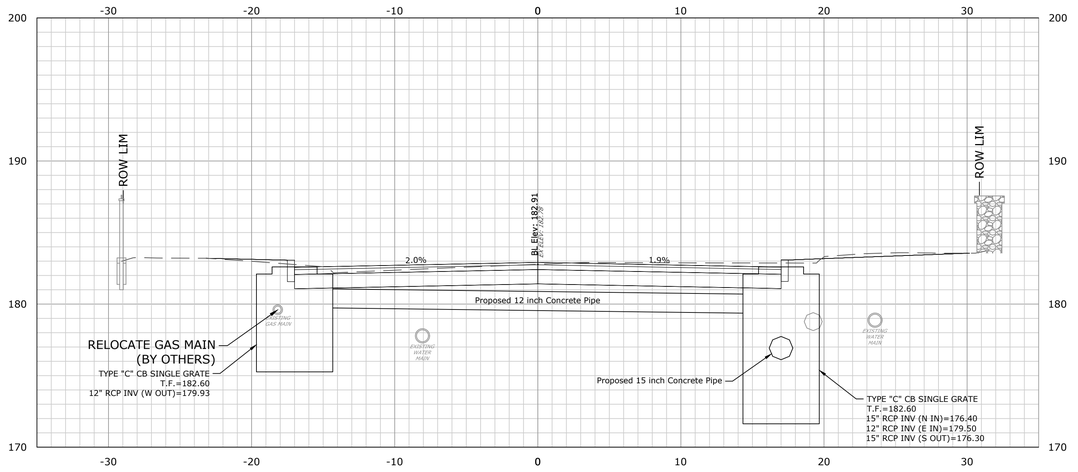
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

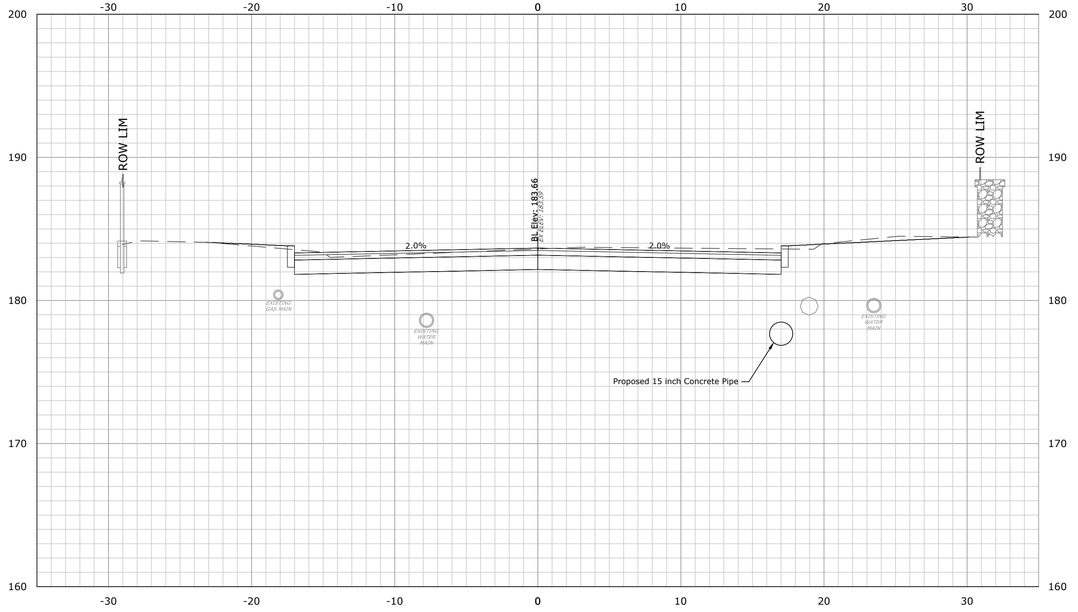
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-22



25+00



24+50

STA. 24+50 TO STA. 25+00

File Path: J:\DWGIP\20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-23 Plotted: Wed, January 26, 2022 - 9:13 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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MANCHESTER, CONNECTICUT 06040
860.646.2469
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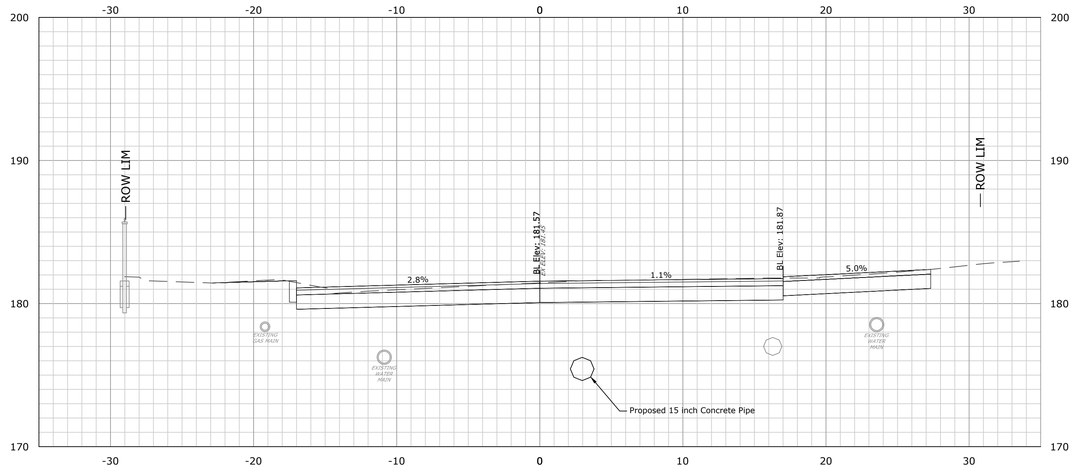
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

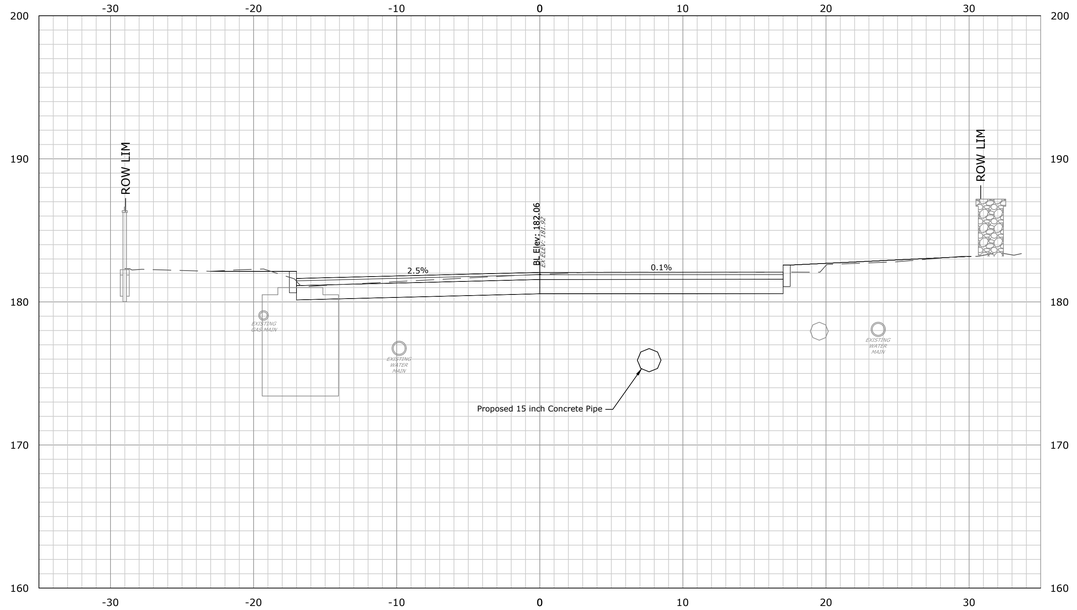
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-23



25+75



25+50

STA. 25+50 TO STA. 25+75

File Path: J:\DWG\P20170353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-24 Plotted: Wed, January 26, 2022 - 9:13 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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146 HARTFORD ROAD
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860.646.2469
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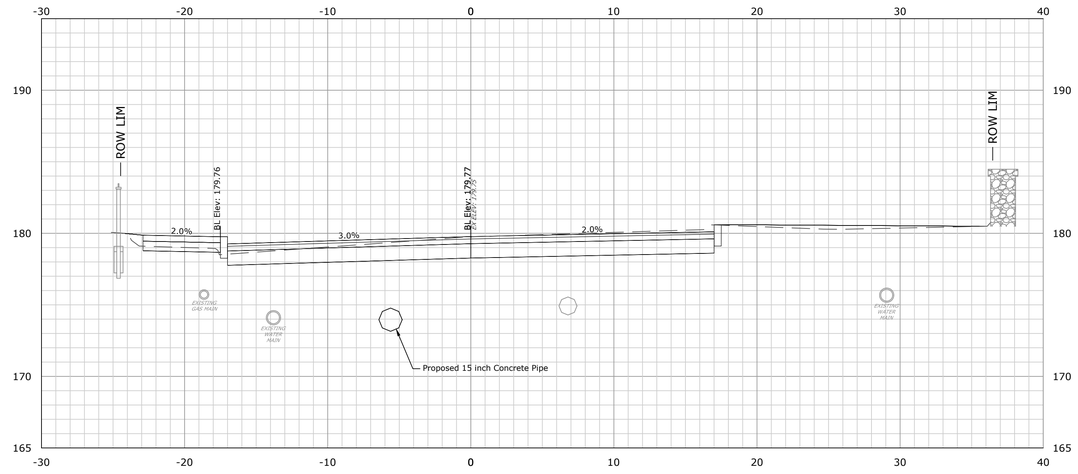
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

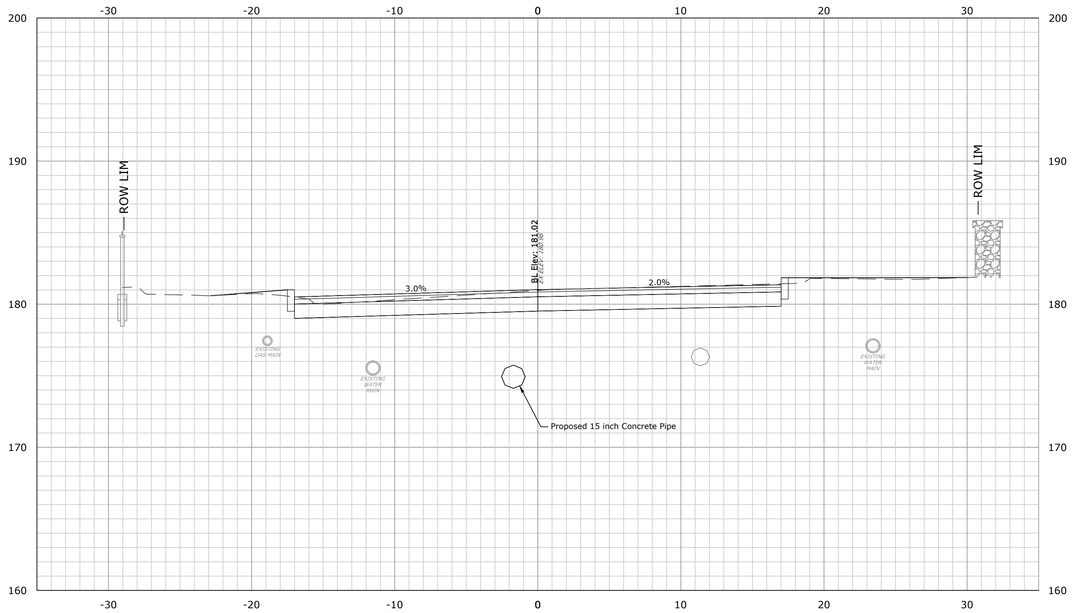
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-24



26+50



26+00

STA. 26+00 TO STA. 26+50

File Path: J:\DWG\P20\170353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-25 Plotted: Wed, January 26, 2022 - 9:13 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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MANCHESTER, CONNECTICUT 06040
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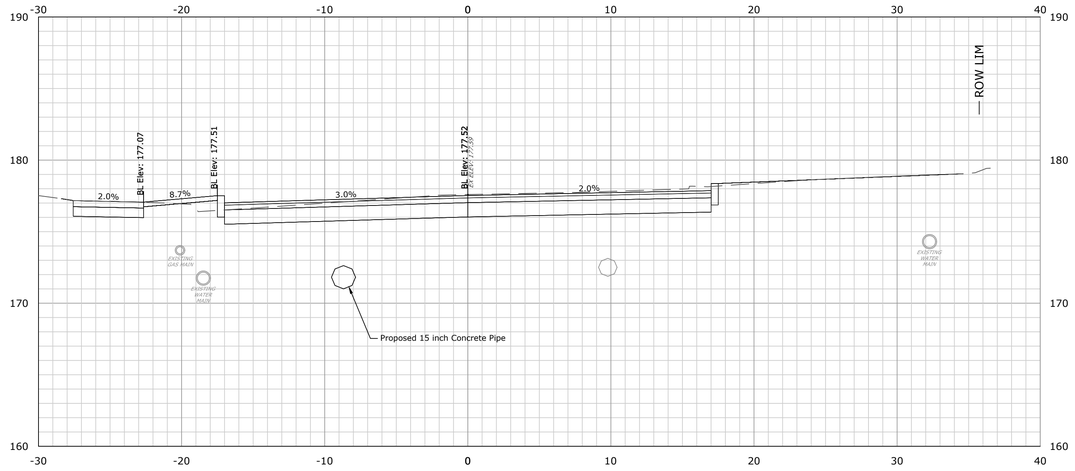
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

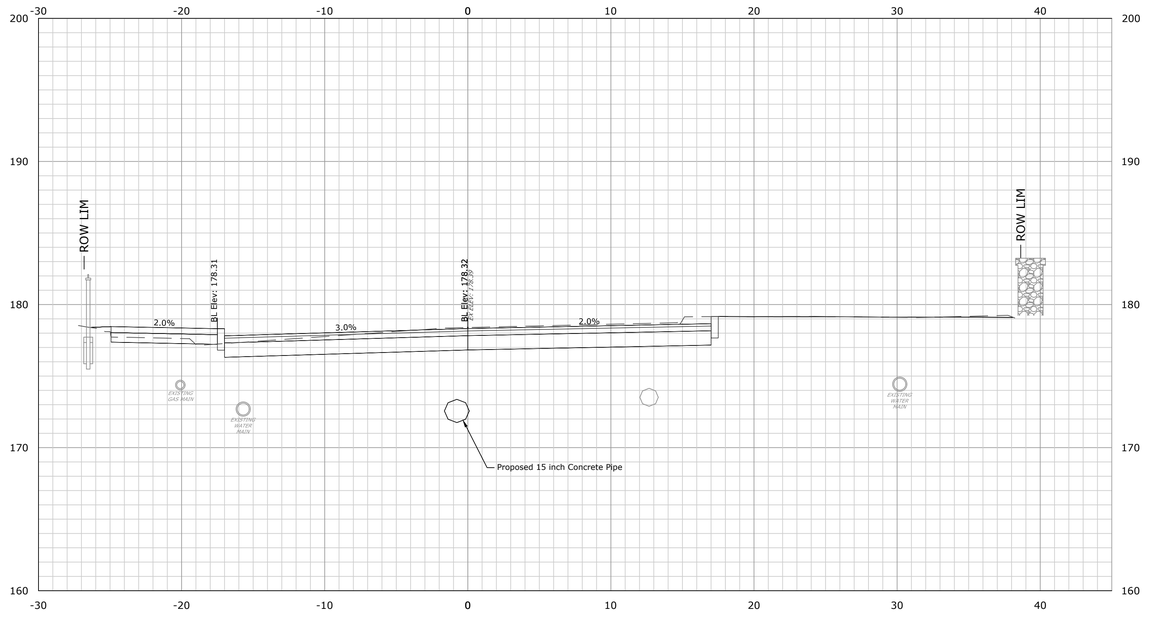
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-25



27+25



27+00

STA. 27+00 TO STA. 27+25

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-26 Plotted: Wed, January 26, 2022 - 9:13 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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MANCHESTER, CONNECTICUT 06040
860.646.2469
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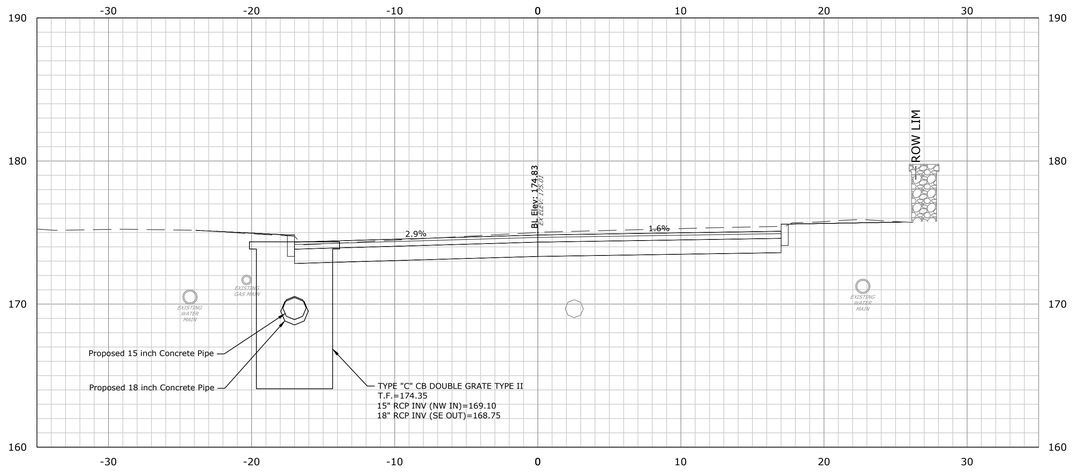
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

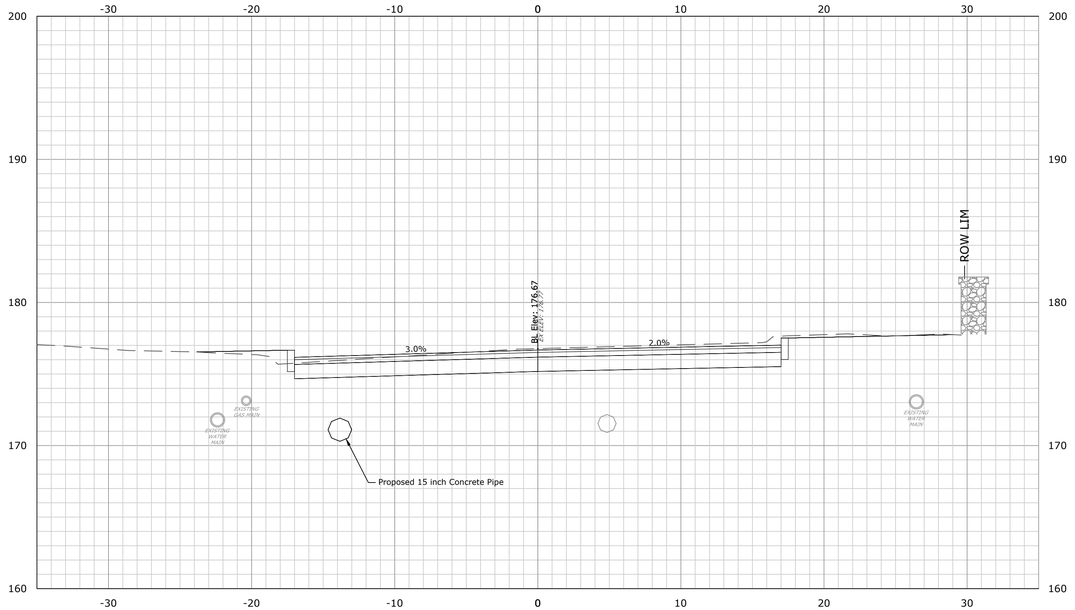
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-26



28+00



27+50

STA. 27+50 TO STA. 28+00

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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MANCHESTER, CONNECTICUT 06040
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CROSS SECTIONS
JEFFERSON AVENUE

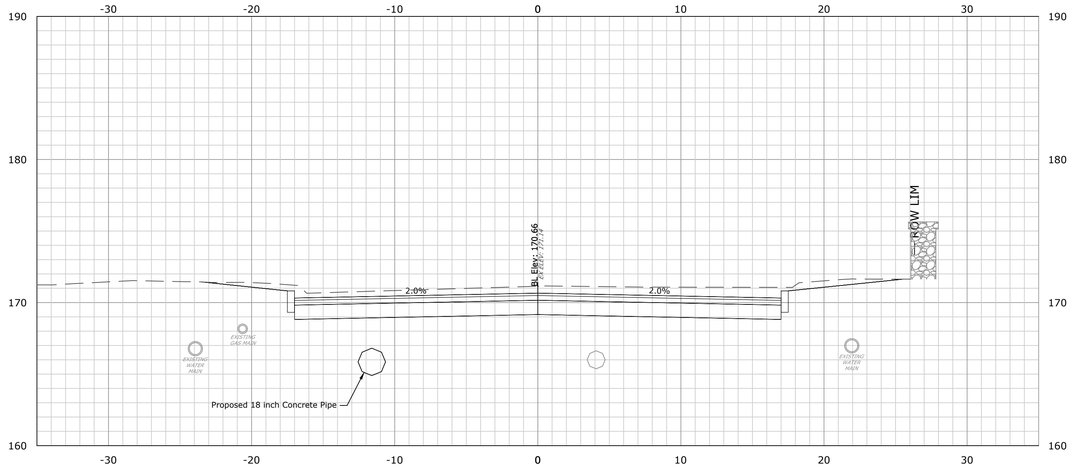
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

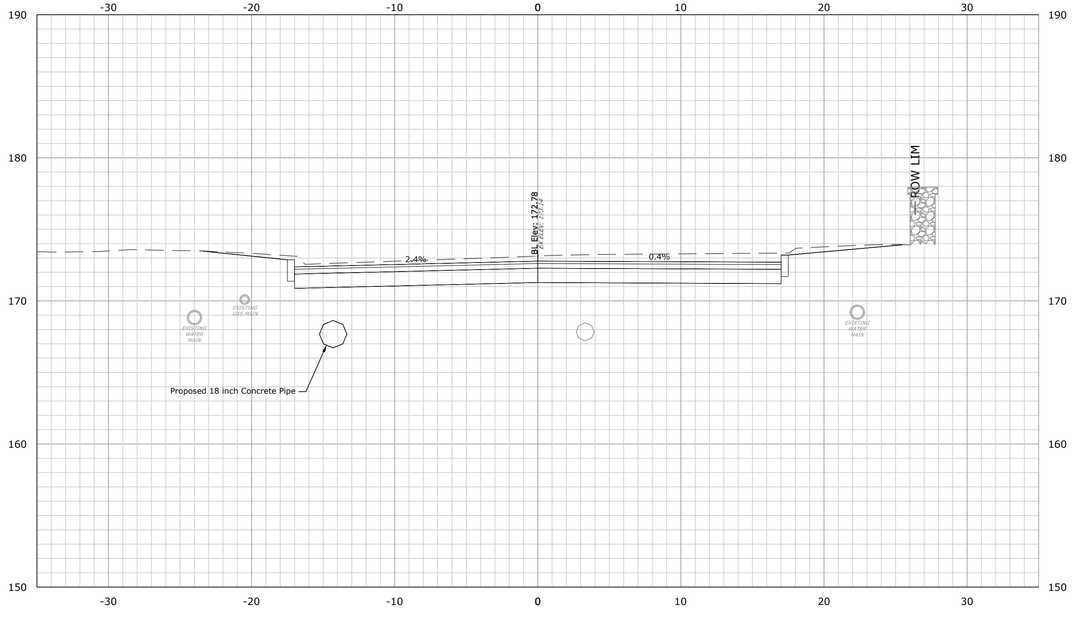
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-27

File Path: J:\DWG\P20170353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-27 Plotted: Wed, January 26, 2022 - 9:14 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



29+00



28+50

STA. 28+50 TO STA. 29+00

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
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CROSS SECTIONS
JEFFERSON AVENUE

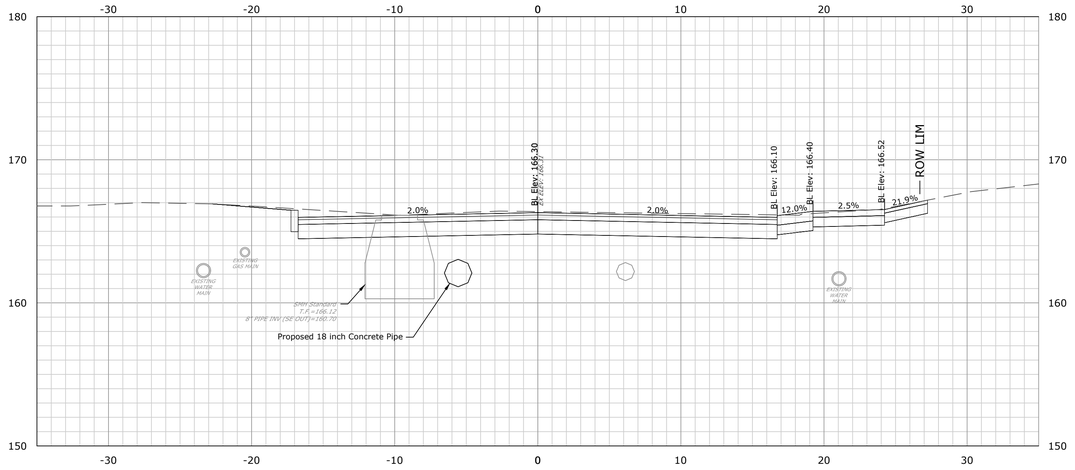
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

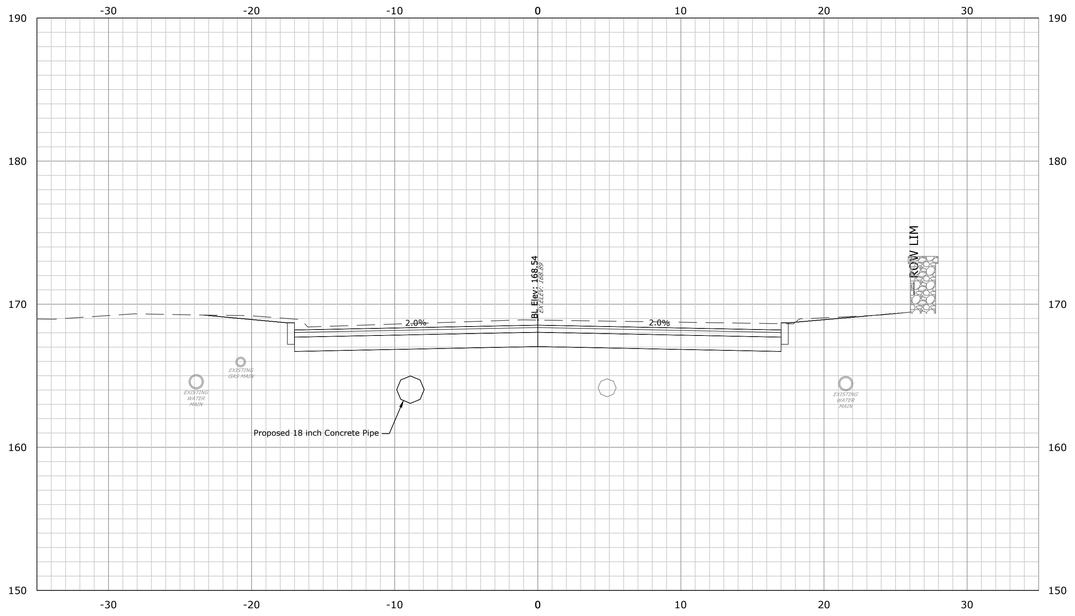
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-28

File Path: J:\DWG\P2017\0353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-28 Plotted: Wed, January 26, 2022 - 9:14 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:



30+03.50



29+50

STA. 29+50 TO STA. 30+03.50

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-29 Plotted: Wed, January 26, 2022 - 9:14 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

CITY OF NEW LONDON

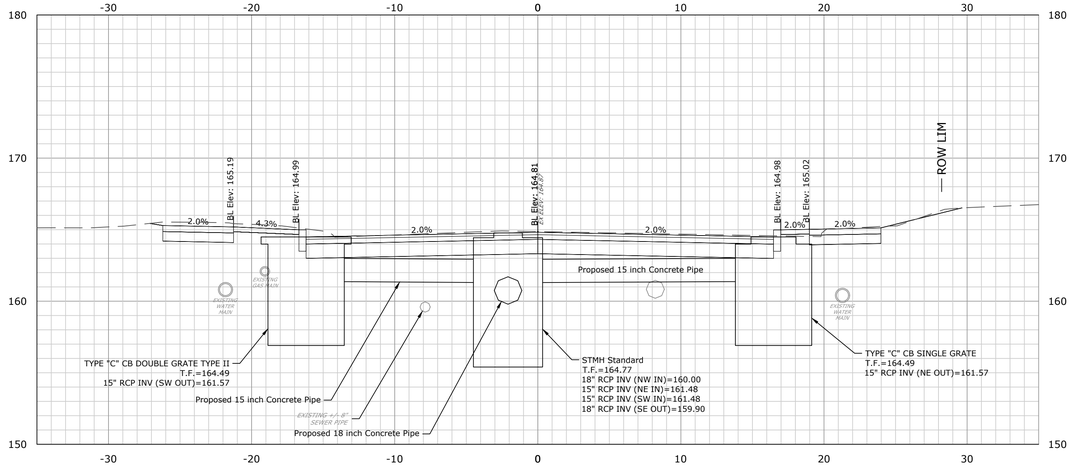
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

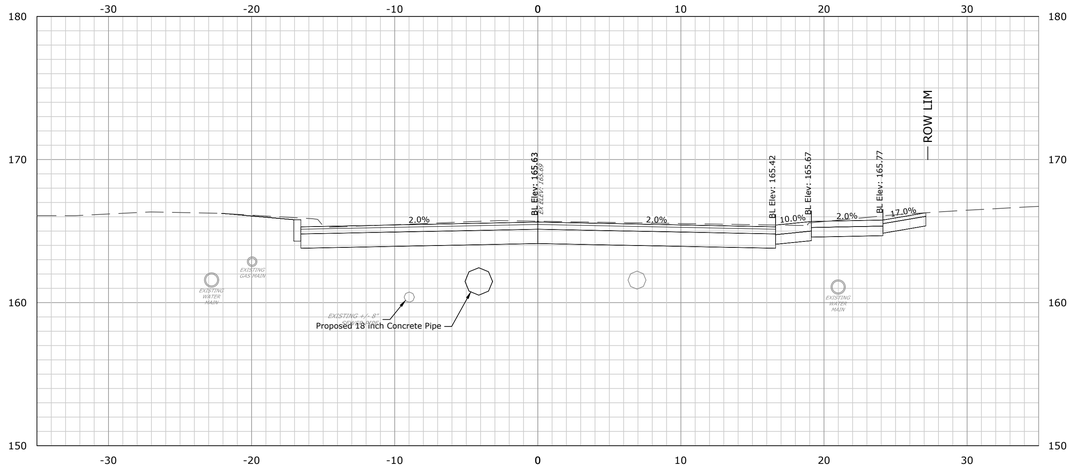
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-29



30+40



30+20

STA. 30+20 TO STA. 30+40

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-30 Plotted: Wed, January 26, 2022 - 9:14 AM User: stanski
MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
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CITY OF NEW LONDON

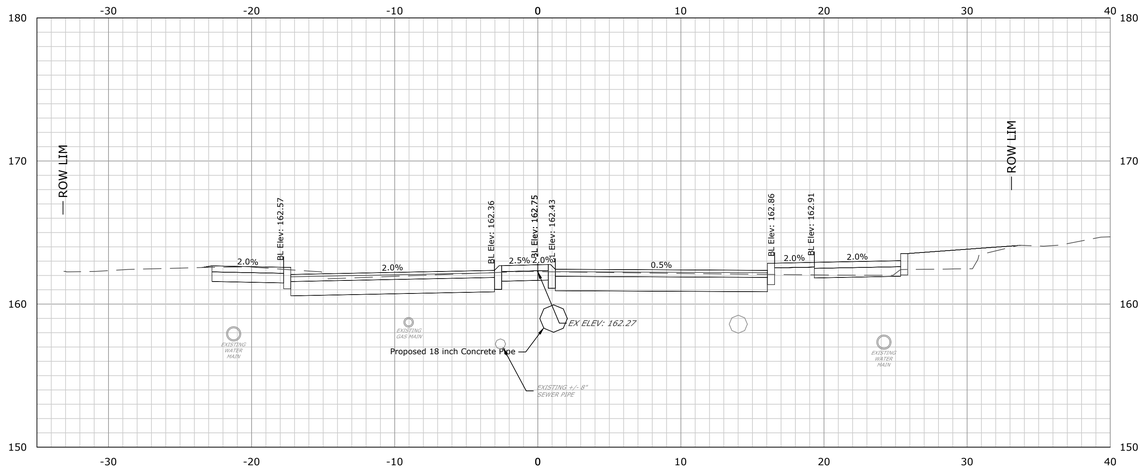
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

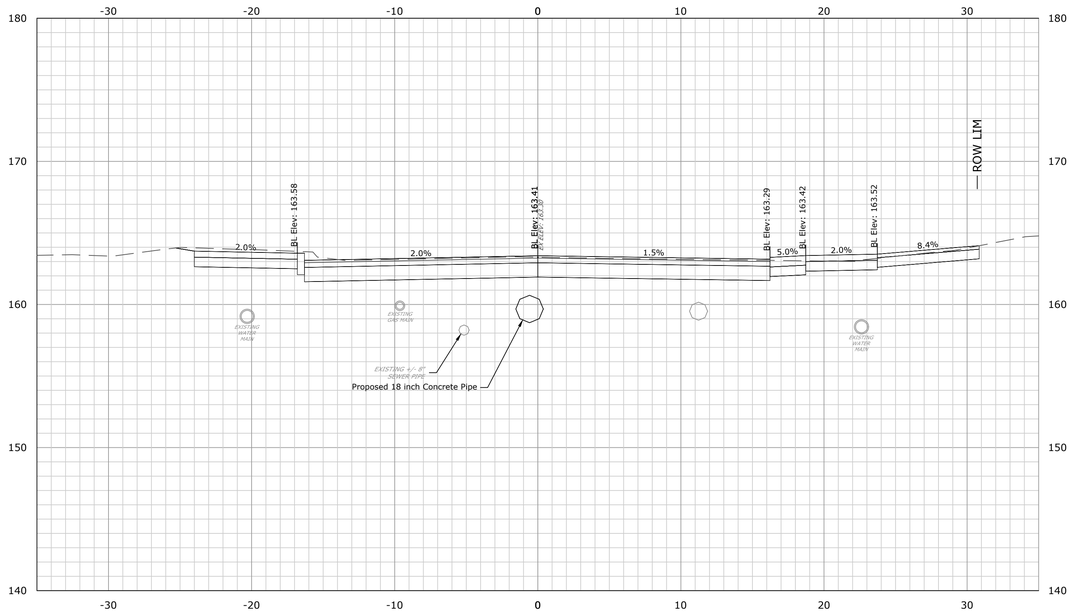
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-30



31+00



30+75

STA. 30+75 TO STA. 31+00

File Path: J:\DWG\P2017\0353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-31 Plotted: Wed, January 26, 2022 - 9:14 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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CITY OF NEW LONDON

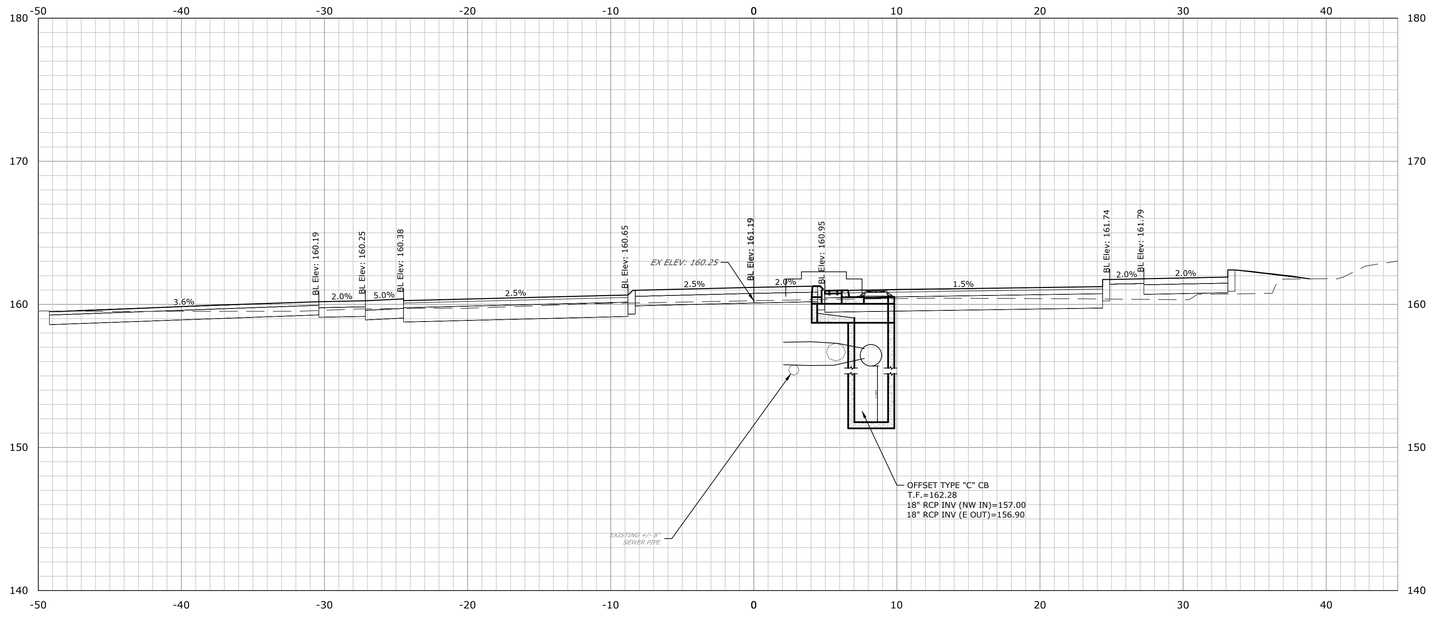
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-31



31+45

STA. 31+45

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-32 Plotted: Wed, January 26, 2022 - 9:14 AM User: stanski
Ploter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
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CITY OF NEW LONDON

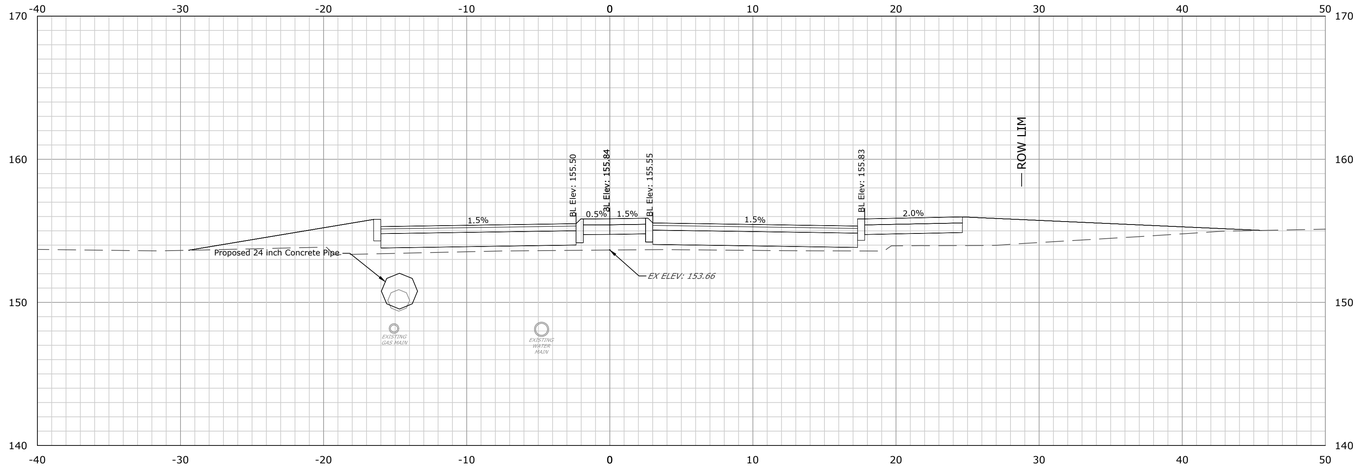
CROSS SECTIONS
JEFFERSON AVENUE

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

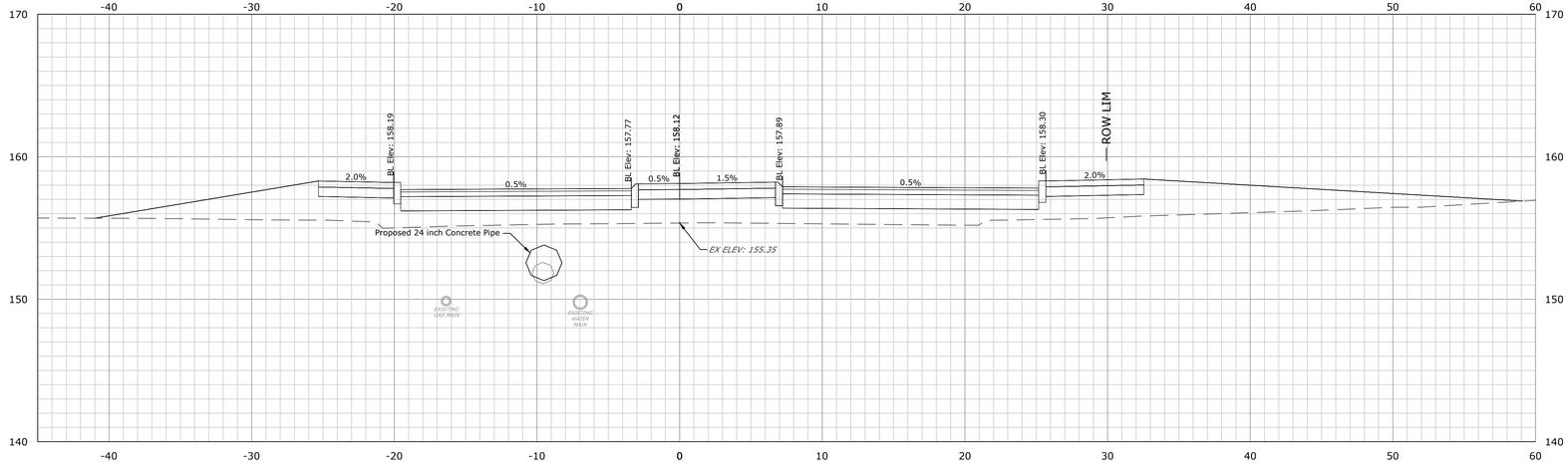
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-32



33+00



32+63

STA. 32+63 TO STA. 33+00

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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CITY OF NEW LONDON

CROSS SECTIONS
JEFFERSON AVENUE

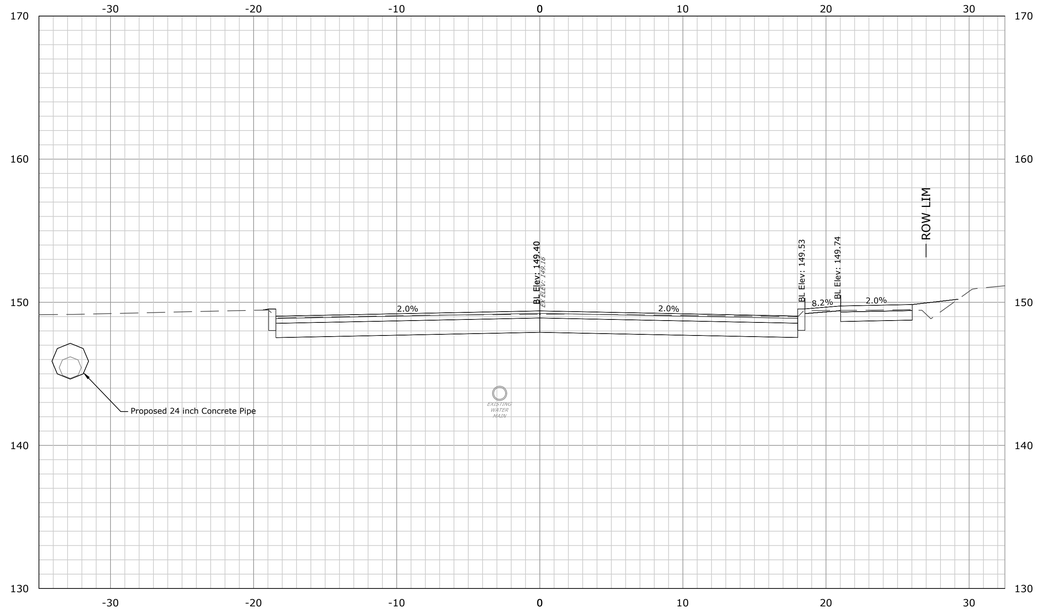
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

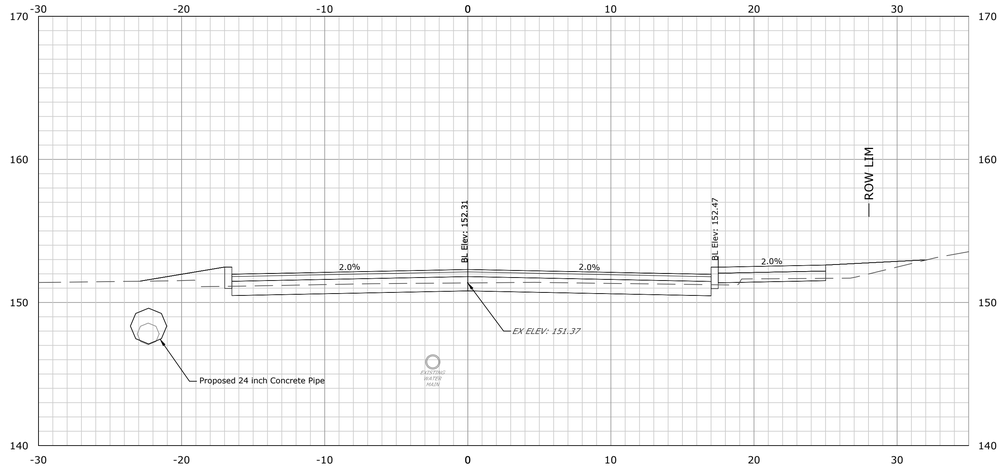
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-33

File Path: J:\DWG\P20170353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-33 Plotted: Wed, January 26, 2022 - 9:14 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



34+00



33+50

STA. 33+50 TO STA. 34+00

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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CROSS SECTIONS
JEFFERSON AVENUE

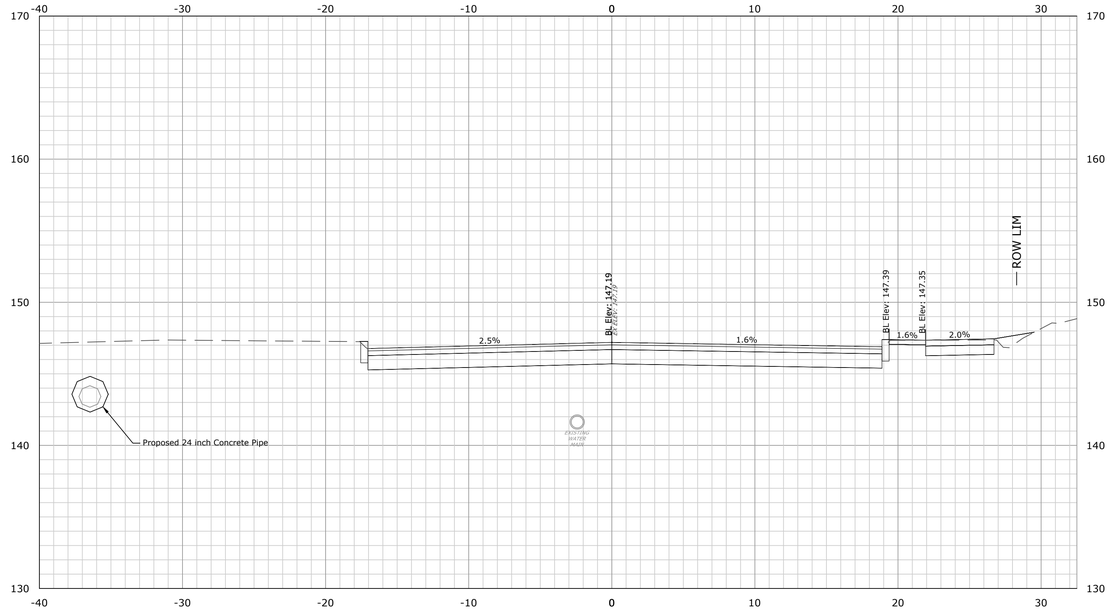
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

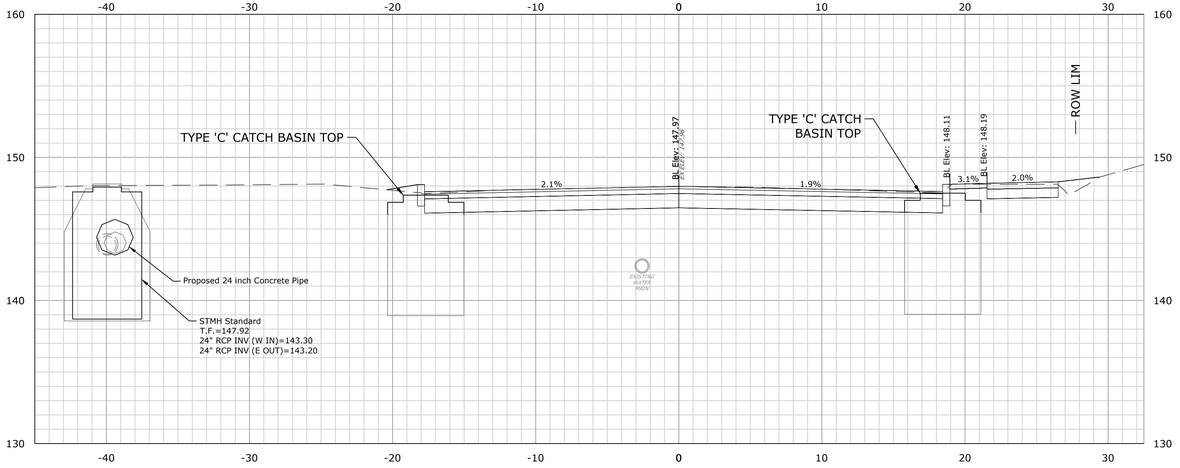
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-34

File Path: J:\DWG\P20170353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-34 Plotted: Wed, January 26, 2022 - 9:15 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



34+49



34+30

STA. 34+30 TO STA. 34+49

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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CROSS SECTIONS
JEFFERSON AVENUE

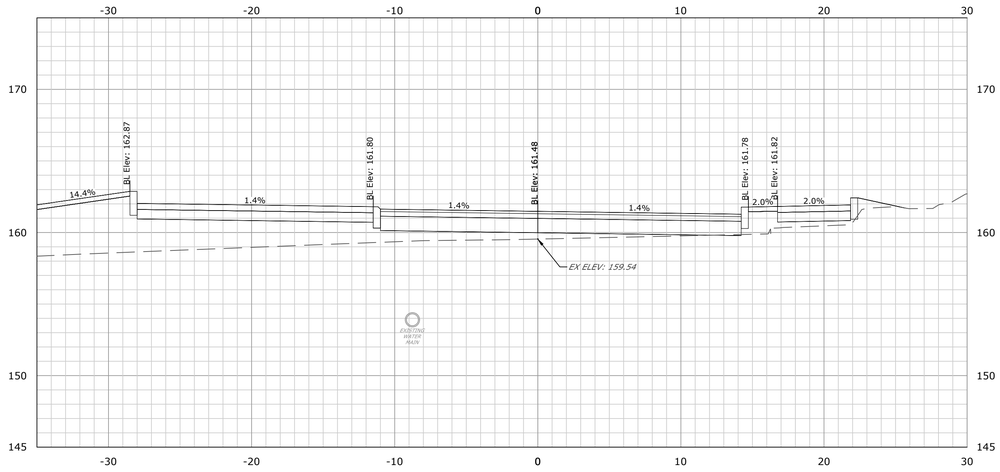
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

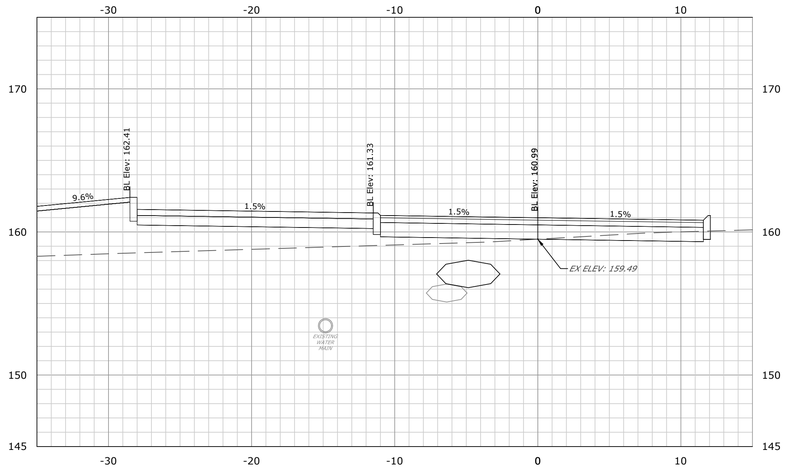
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-35

File Path: J:\DWG\P20170353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-35 Plotted: Wed, January 26, 2022 - 9:15 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



0+35



0+05

STA. 0+05 TO STA. 0+35

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-36 Plotted: Wed, January 26, 2022 - 9:15 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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146 HARTFORD ROAD
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CITY OF NEW LONDON

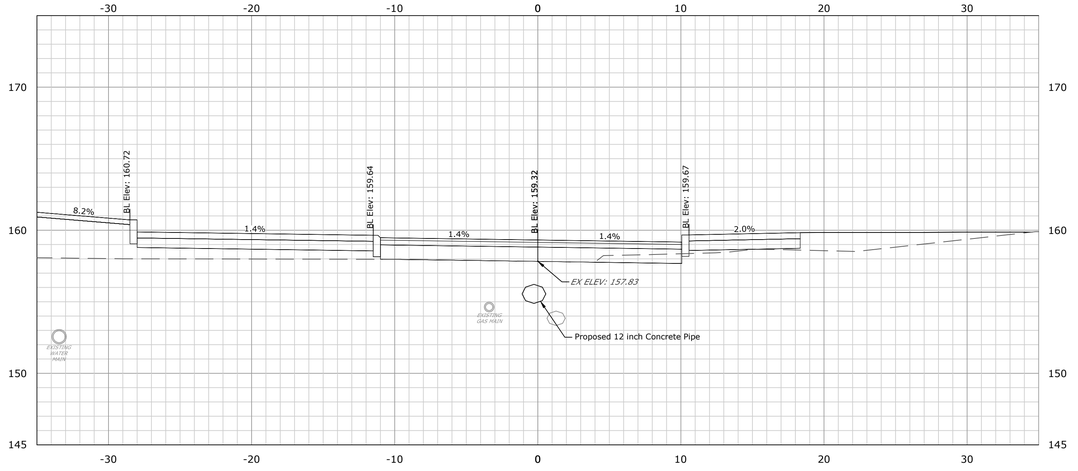
CROSS SECTIONS
ROUNDABOUT

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

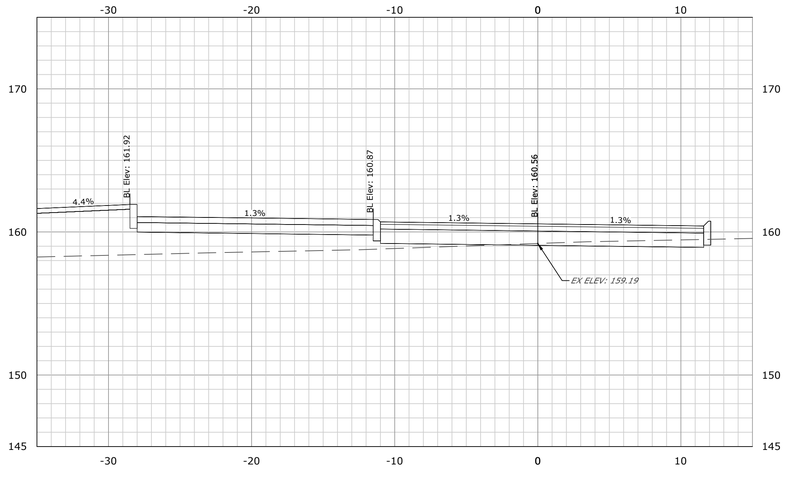
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-36



1+05



0+72

STA. 0+72 TO STA. 1+05

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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CITY OF NEW LONDON

CROSS SECTIONS
ROUNDABOUT

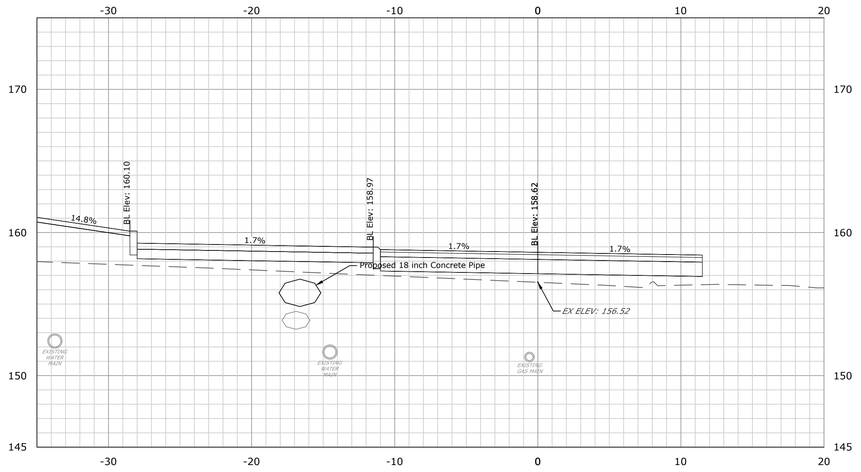
JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

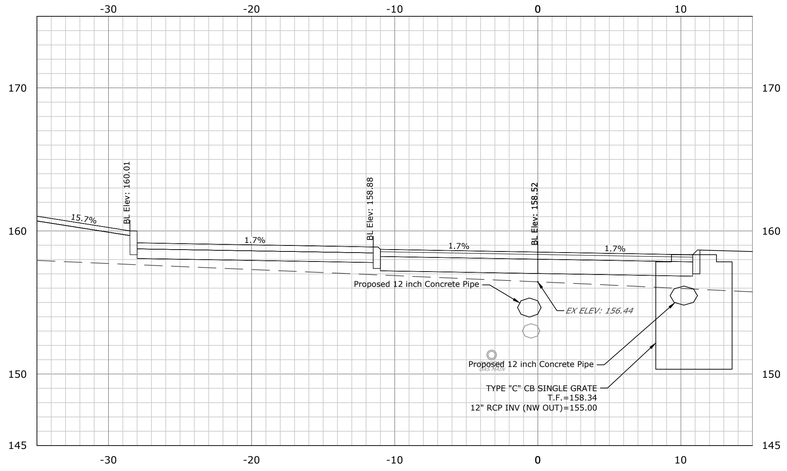
PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-37

File Path: J:\DWG\P2017\0353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-37 Plotted: Wed, January 26, 2022 - 9:15 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



1+75



1+55

STA. 1+55 TO STA. 1+75

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-38 Plotted: Wed, January 26, 2022 - 9:15 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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860.646.2469
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CITY OF NEW LONDON

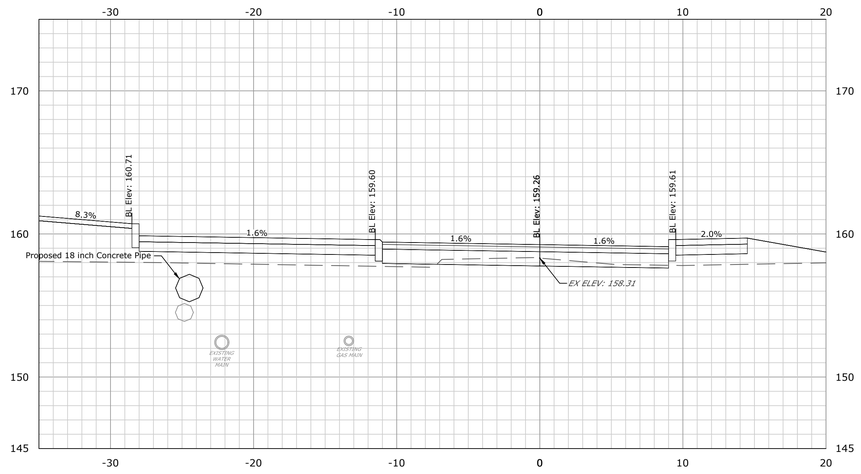
CROSS SECTIONS
ROUNDABOUT

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-38



2+07

STA. 2+07

File Path: J:\DWG\P20170353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-39 Plotted: Wed, January 26, 2022 - 9:15 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
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CITY OF NEW LONDON

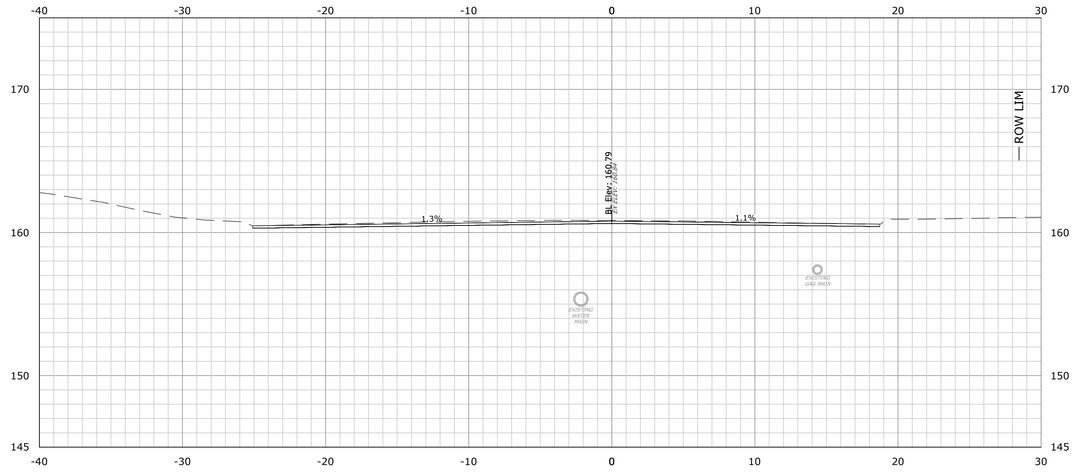
CROSS SECTIONS ROUNDABOUT

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

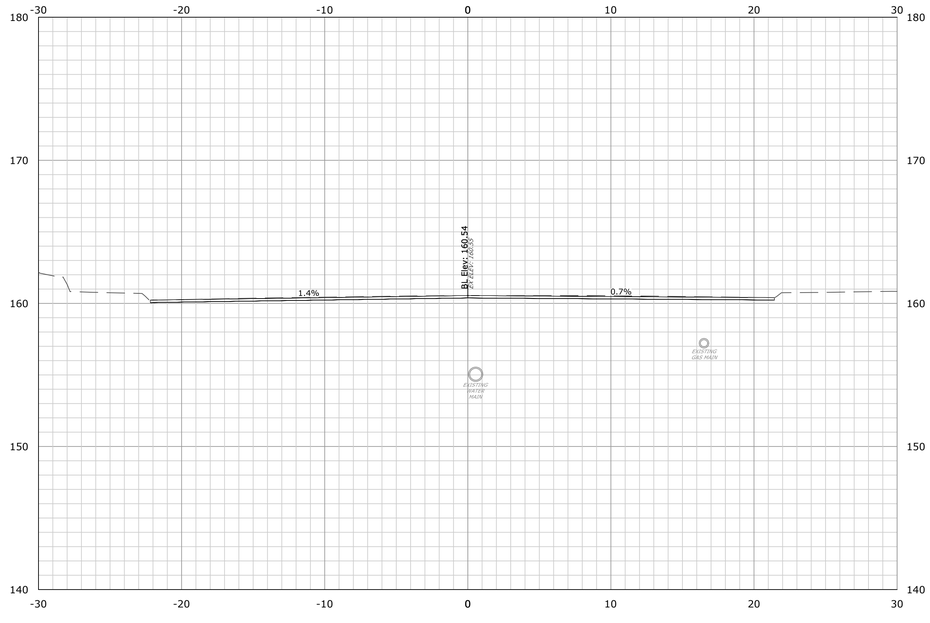
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-39



40+00



39+50

STA. 39+50 TO STA. 40+00

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-40 Plotted: Wed, January 26, 2022 - 9:15 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
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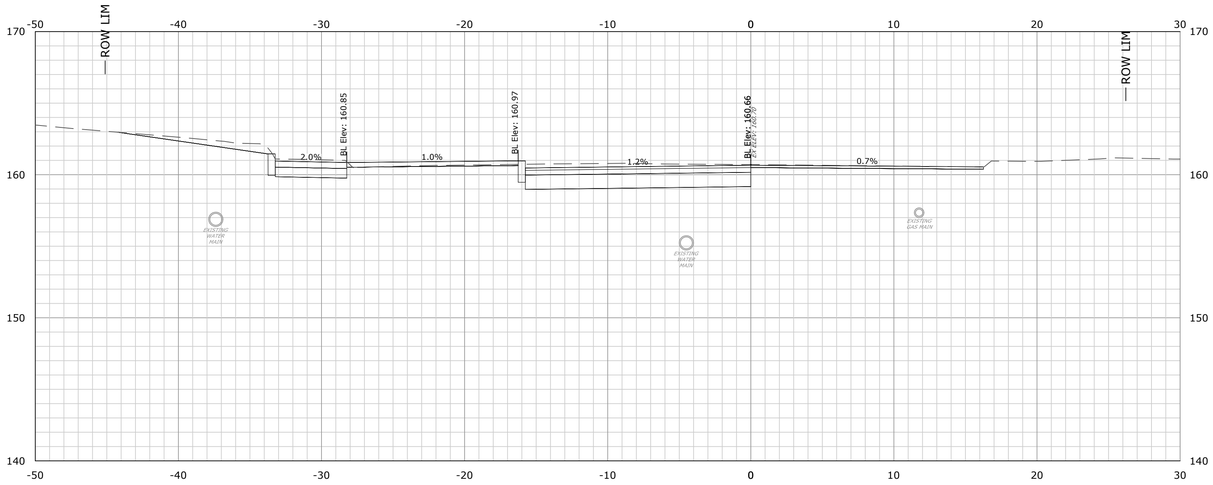
CROSS SECTIONS
CHESTER STREET

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

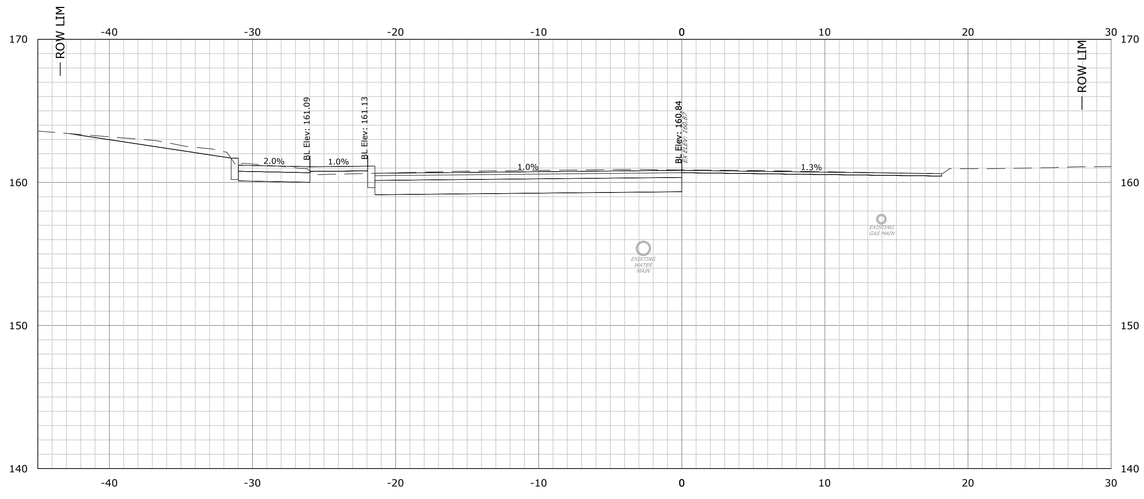
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-40



40+50



40+10

STA. 40+10 TO STA. 40+50

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-41 Plotted: Wed, January 26, 2022 - 9:16 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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MANCHESTER, CONNECTICUT 06040
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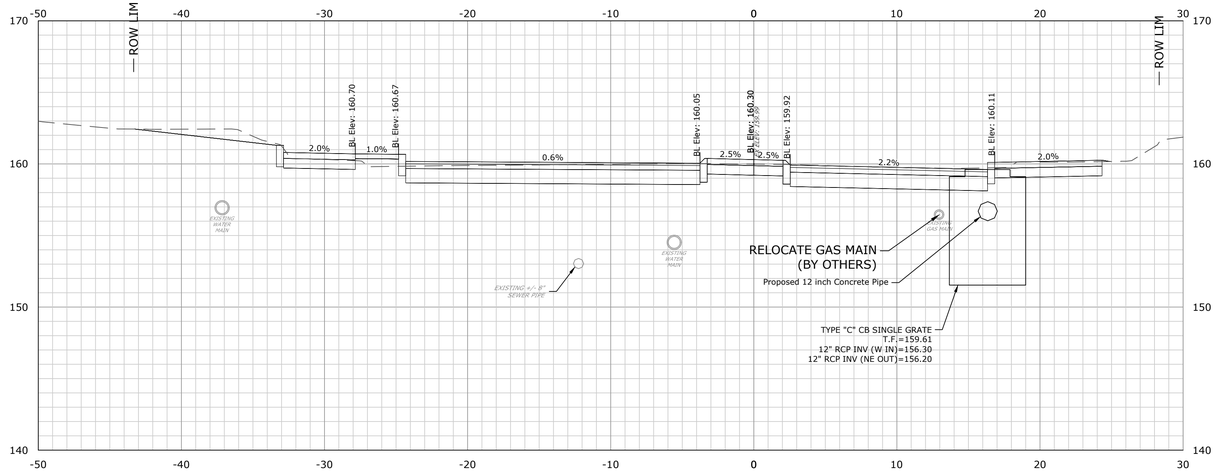
CROSS SECTIONS
CHESTER STREET

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

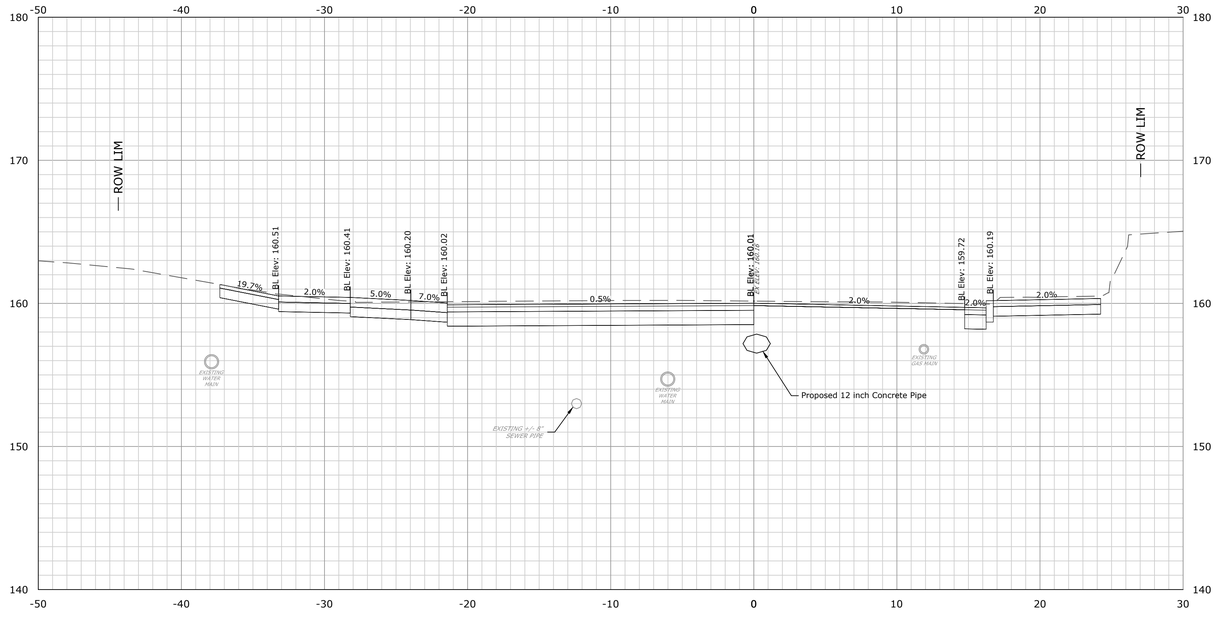
NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-41



41+15



41+00

STA. 41+00 TO STA. 41+15

File Path: J:\DWG\P20170353\A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-42 Plotted: Wed, January 26, 2022 - 9:16 AM User: stanski
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

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146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
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CITY OF NEW LONDON

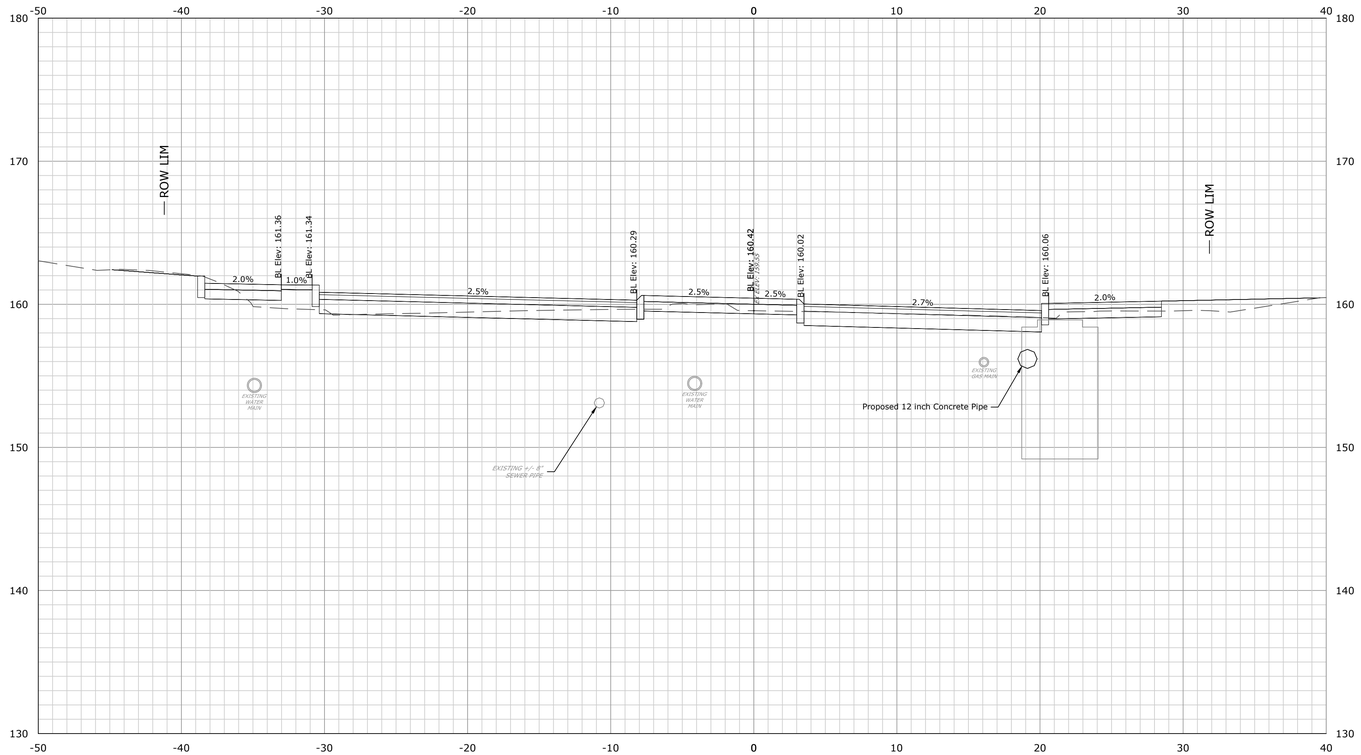
CROSS SECTIONS
CHESTER STREET

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-42



41+40

STA. 41+40

File Path: J:\DWG\P20170353A20\Civil\Xsection\20170353A20_XSC02.dwg Layout: XSC-43 Plotted: Wed, January 26, 2022 - 9:16 AM User: stanski
MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.:
VERT.:
5 2.5 0 5
GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

CITY OF NEW LONDON

CROSS SECTIONS
CHESTER STREET

JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353.A20
DATE: FEBRUARY 2022

XCS-43

ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #

	SHEET NO.	TITLE	APPROVAL DATE
✓	TR-1000_01	GENERAL CLAUSES (TEST PROCEDURES)	1/2014
	TR-1001_01	TRENCHING & BACKFILLING, ELECTRICAL CONDUIT	4/2012
	TR-1002_01	TRAFFIC CONTROL FOUNDATIONS	1/2014
	TR-1010_01	CONCRETE HANDHOLE	4/2014
	TR-1102_01	PEDESTALS, PEDESTRIAN SIGNALS	4/2012
	TR-1105_01	TRAFFIC SIGNALS AND CABLE ASSIGNMENTS	8/2018
	TR-1107_01	PEDESTRIAN PUSH BUTTON	8/2018
	TR-1108_01	CONTROLLERS	5/2013
✓	TR-1111_01	LOOP VEHICLE DETECTOR AND SAWCUT	4/2014
	TR-1113_01	CONTROL CABLE	4/2014
	TR-1114_01	BONDING & UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAILS	8/2018

	SHEET NO.	TITLE	APPROVAL DATE
✓	TR-1205_01	DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS	8/2018
✓	TR-1208_01	SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS	8/2018
✓	TR-1208_02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS	6/2017
	TR-1210_01	PAVEMENT MARKINGS (DURABLE MARKINGS) FOR DIVIDED HIGHWAYS	OBSOLETE
	TR-1210_02	PAVEMENT MARKINGS (DURABLE MARKINGS) FOR DIVIDED HIGHWAYS	OBSOLETE
	TR-1210_03	SPECIAL DETAILS & TYPICAL PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS	OBSOLETE
✓	TR-1210_04	PAVEMENT MARKING LINES AND SYMBOLS	8/2018
	TR-1210_05	PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS	4/2017
	TR-1210_06	PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS	8/2018
	TR-1210_07	PAVEMENT MARKINGS FOR EXIT RAMPS	4/2017
✓	TR-1210_08	PAVEMENT MARKINGS FOR NON FREEWAYS	8/2018
✓	TR-1210_09	PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RR CROSSINGS	4/2017
✓	TR-1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS	8/2018
✓	TR-1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES	8/2018

STANDARD SHEETS SHALL BE USED WITH STANDARD SPECIFICATIONS

REV.	DATE	REVISION DESCRIPTION
4	4-2017	REMOVED TR-1210_01 TO TR-1210_03. ADDED TR-1210_04 TO TR-1210_09
3	4-2014	REMOVED TR-1111_02.
2	1-2014	REMOVED TR-1103_01.
1	4-2012	RENUMBERED TR-1107_02 TO TR-1114_01. REMOVED TR-1116_01.

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: 8/16/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD_DGN.DGN Model: TR-01-STD_INDEX

SUBMITTED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

TRAFFIC STANDARD SHEET INDEX

STANDARD SHEET NO.:

TR-STD_INDEX

DOCUMENT ALL LOOP DETECTOR VALUES BOTH CALCULATED AND MEASURED.

DEFINITIONS:

LOOP: #14 AWG WIRE IN SAWCUT, TERMINATED IN HANDHOLE, IMSA SPEC 51-7.
LEAD-IN: 14/2 SHIELDED TWISTED PAIR CABLE FROM HANDHOLE TO CONTROLLER, IMSA SPEC 50-2.
LOOP CIRCUIT: LOOP SAWCUT WIRE SPLICED TO 14/2 LEAD-IN CABLE.
AMPLIFIER: ELECTRONIC DEVICE CONNECTED TO LOOP CIRCUIT. SENSES CHANGE IN RESONANT FREQUENCY AND CREATES AN OUTPUT TO THE CONTROLLER.
MEGOHMETER: INSTRUMENT SPECIFICALLY DESIGNED TO TEST THE INSULATION RESISTANCE OF A CIRCUIT. COMMON MANUFACTURERS: AMEC®, AMPROBE®, FLUKE®, MEGGER®.

1: RESISTANCE:

1a: INSULATION RESISTANCE: PERFORM A 600 VOLT (MINIMUM) MEGOHMETER TEST ON LOOP CIRCUIT. THE LOOP AMPLIFIER MUST BE DISCONNECTED FROM THE LOOP CIRCUIT OR THE LOOP AMPLIFIER WILL BE DAMAGED. THE RESISTANCE OF THE LOOP WIRE TO GROUND MUST BE GREATER THAN 100 MEG OHMS.

1b: WIRE RESISTANCE: MEASURE THE DC RESISTANCE OF THE LOOP CIRCUIT. THE LOOP CIRCUIT MUST BE DISCONNECTED FROM THE AMPLIFIER. USING AN OHMMETER CONNECTED ACROSS THE LOOP CIRCUIT, MEASURE THE DC RESISTANCE OF THE CONDUCTORS. THE RESISTANCE SHOULD BE LESS THAN 4 OHMS.

NOTE: ALL TESTS SHALL BE DONE AT THE CONTROLLER ASSEMBLY (CA), HOWEVER IT IS RECOMMENDED TO PERFORM A PRELIMINARY MEGOHMETER TEST AT THE HANDHOLE PRIOR TO SEALING THE SAWCUT AND SPLICING TO THE LEAD-IN. IF A DEFECTIVE LOOP WIRE IS FOUND, IT MAY BE EASILY REPLACED.

2: LOOP CIRCUIT INDUCTANCE:

2a: CALCULATE INDUCTANCE OF LOOP (L_{LOOP}) AND LEAD-IN CABLE ($L_{14/2}$).

LOOP INDUCTANCE (ENGLISH)

$L_{LOOP} = (P/4)(N^2 + N)$

LEAD-IN INDUCTANCE

$L_{14/2} = (0.24\,\mu h/FT)(D)$

LOOP INDUCTANCE (METRIC)

$L_{LOOP} = (3.28P/4)(N^2 + N)$

LEAD-IN INDUCTANCE

$L_{14/2} = (0.78\,\mu h/m)(D)$

WHERE:

L_{LOOP} = INDUCTANCE OF INDIVIDUAL LOOP SEGMENTS IN MICROHENRIES (μh).
$L_{14/2}$ = INDUCTANCE OF LEAD-IN CABLE.
P = PERIMETER OF INDIVIDUAL LOOP SEGMENT, IN FEET OR METERS.
N = NUMBER OF TURNS.
D = LENGTH OF LEAD-IN CABLE FROM SPLICE IN HANDHOLE TO CONTROLLER, IN FEET OR METERS.
$L_T = L_1 + L_2 + L_3$ etc.,
(TOTAL INDUCTANCE OF SEGMENTED LOOP SPLICED IN SERIES.)
$L_T = 1 / [(1 / L_1) + (1 / L_2) + (1 / L_3) + \text{etc.}]$,
(TOTAL INDUCTANCE OF SEGMENTED LOOP SPLICED IN PARALLEL.

WHERE:

L_T = TOTAL INDUCTANCE OF THE SEGMENTED ARRANGEMENT.
L_1, L_2, L_3 = INDUCTANCE OF INDIVIDUAL LOOP SEGMENTS.

EXAMPLE: (IN ENGLISH)

6' x 6', 4 TURNS, APPROXIMATELY 300' FROM THE CONTROLLER

$L_{LOOP} = (24/4)(4^2 + 4)$
$L_{LOOP} = (6)(20)$
$L_{LOOP} = 120\,\mu h$

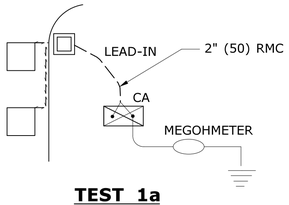
$L_{14/2} = (0.24\,\mu h/FT)(300)$
$L_{14/2} = (0.24)(300)$
$L_{14/2} = 72\,\mu h$

2b: MEASURE INDUCTANCE OF LOOP AND LEAD-IN AT CONTROLLER. USE INSTRUMENT DESIGNED TO MEASURE LOOP CIRCUIT INDUCTANCE.

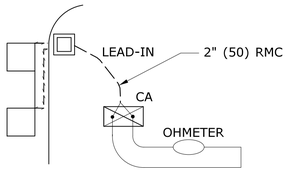
3: POWER INTERRUPTION:

AFTER THE AMPLIFIER HAS TUNED AND IS OPERATING, DISCONNECT POWER BY REMOVING FUSE OR HARNESS CONNECTOR. RETURN POWER TO THE AMPLIFIER AND CONFIRM IT RE-TUNES AUTOMATICALLY WITHOUT ANY MANUAL ADJUSTMENTS.

INDUCTIVE LOOP TEST PROCEDURE



TEST 1a



TEST 1b

PROJECT:
TOWN: LOCATION:

LOOP NUMBER	RESISTANCE OHMS		INDUCTANCE MICROHENRIES (μh)		AMPLIFIER POWER INTERRUPTION
	TO GROUND (1a)	LOOP WIRE (1b)	CALCULATED (2a)	MEASURED (2b)	PASS/FAIL (3)
D1 FRONT					
D1 REAR					
D2A					
D2B					
D4A FRONT					
D4B REAR					
D5					
D6A					
D6B					

LOOP CIRCUIT TEST DATA (EXAMPLE)

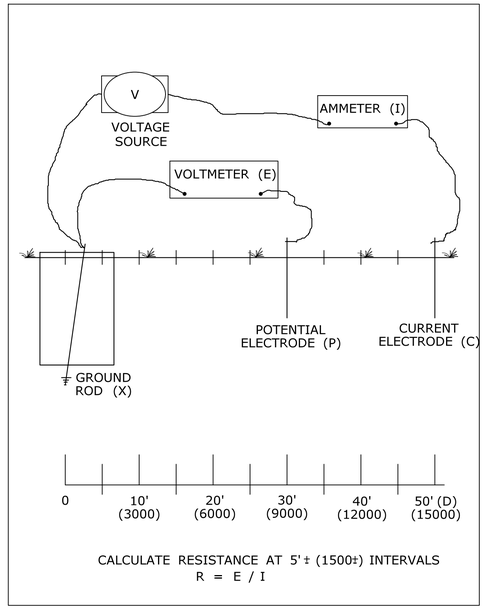
TEST PROCEDURE:

- INSERT ELECTRODE (C) A DISTANCE (D) FROM THE FOUNDATION. RECOMMEND A MINIMUM 50'.
- CONNECT A VOLTAGE SOURCE AND AMMETER BETWEEN THE FOUNDATION GROUND ROD (X) AND C.
- MEASURE THE CURRENT FLOW (I) BETWEEN X AND C.
- INSERT POTENTIAL ELECTRODE (P) AT 5'(1500) INTERVALS IN A STRAIGHT LINE TO ELECTRODE C.
- MEASURE VOLTAGE (E) AT EACH LOCATION OF P.
- CALCULATE RESISTANCE (R) AT EACH LOCATION OF P USING THE FORMULA R=E/I.
- PLOT THE VALUES ON A RxD GROUND RESISTANCE CHART.
- THE ACTUAL GROUND RESISTANCE IS WHERE THE PLOTTED CURVE IS RELATIVELY FLAT, USUALLY AT 62%± OF D. SEE EXAMPLE CHART: CURVE FLATTENS OUT AT 10 OHMS, APPROXIMATELY 30'(9000) FROM FOUNDATION.
- IF GROUND RESISTANCE IS GREATER THAN 10 OHMS, PERFORM CORRECTIVE ACTION AND RE-TEST.

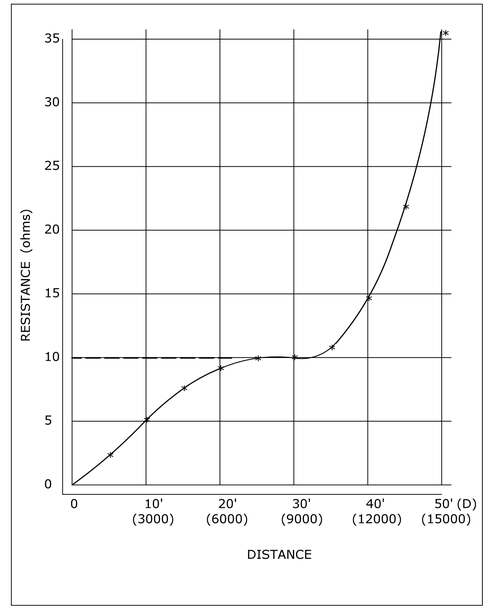
SUGGESTED CORRECTIVE ACTION:

A. INSTALL ADDITIONAL 10'(3000) GROUND ROD(S).
REFER TO NESC SECTION 09, RULE 94.B.2.
DRIVE ADDITIONAL GROUND RODS NO CLOSER TO FOUNDATION THAN 6'(1800). IF MORE THAN ONE IS NEEDED, SPACE MINIMUM 6'(1800) APART.
BONDS TO ADDITIONAL GROUND ROD(S) SHALL BE MADE BY A CLAMP DESIGN FOR DIRECT BURIAL OR BY EXOTHERMIC WELDING TECHNIQUE.
TOP OF ADDITIONAL GROUND ROD(S) SHALL BE 6" (150) BELOW GRADE.

B. IN AREAS OF SHALLOW BEDROCK, INSTALL A GROUND GRID OR ARRAY CONSISTING OF BURIED WIRE, RODS, STRIPS OR PLATES.
REFER TO NESC SECTION 09, RULE 94.B.3.
REFER TO NEC SECTION 250.
MINIMUM DEPTH OF 18" (450).
GRID CONNECTIONS AND BONDS ON GROUND GRID SHALL BE MADE BY CLAMPS DESIGNED FOR DIRECT BURIAL OR BY EXOTHERMIC WELDING TECHNIQUE.



3 POINT GROUND RESISTANCE TEST CIRCUIT



GROUND RESISTANCE CHART (EXAMPLE)

PIN	COLOR	FUNCTION
A	WHITE	110 VAC Neutral
B	BROWN	Output Relay Common (moving contact)
C	BLACK	110 VAC (Fused)
D	RED	Loop
E	ORANGE	Loop
F	YELLOW	Output Relay Contact (Closes with moving contact when detecting vehicle)
G	BLUE	Output Relay Contact (Opens with moving contact when detecting vehicle)
H	GREEN	Chassis Ground
J	GREY	110 VAC Delay/Extend Override
Shell		Ground (shall be connected to pin H in the connector)

DETECTOR AMPLIFIER PIN DESIGNATION

NOTES:
1. WHEN REQUESTED BY THE ENGINEER, MEASURE RESISTANCE-TO-GROUND OF GROUND ROD AT TRAFFIC CONTROL FOUNDATIONS. SEE FALL-OF-POTENTIAL METHOD. IF LESS THAN 10 ohms, INSTALL SUPPLEMENTAL ELECTRODES AS REQUIRED. NEC ARTICLE 250.
2. DURING THE TEST, THE GROUND ROD SHOULD NOT BE BONDED TO ANY RMC IN THE FOUNDATION.
3. THE VOLTAGE SOURCE, VOLTMETER, AMMETER, ELECTRODES P AND C, AND CONNECTING CABLES ARE AVAILABLE AS A SPECIALIZED TEST INSTRUMENT.
4. REFER TO NATIONAL ELECTRICAL SAFETY CODE (NESC) SECTION 09, GROUNDING METHODS FOR ELECTRIC SUPPLY AND COMMUNCATIONS FACILITIES.
5. REFER TO NATIONAL ELECTRICAL CODE (NEC) CHAPTER 2, ARTICLE 250, GROUNDING.

3 POINT FALL-OF-POTENTIAL GROUND RESISTANCE TEST

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
INDUCTIVE LOOP DETECTOR
SAW CUT
RIGID METAL CONDUIT
HANDHOLE

REV.	DATE	REVISION DESCRIPTION
2	1-2014	REVISED GROUND RESISTANCE NOTES.
1	4-2012	MINOR REVISIONS.

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Plotted Date: 1/7/2014

DIMENSIONS ARE IN ENGLISH (' ") & METRIC UNITS (mm).
METRIC DIMENSIONS ARE ROUNDED:
- OVER 1" TO NEAREST 5 mm
- UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

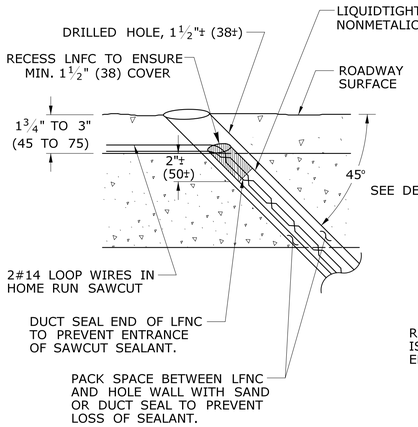
Filename: CTDOT_TRAFFIC_STD.DGN Model: TR-1000_01

SUBMITTED BY: NAME/DATE/TIME:
Tracy L. Fogarty 2014.01.07 16:11:26-05'00'
APPROVED BY: NAME/DATE/TIME:
Charles S. Harlow 2014.01.08 09:02:11-05'00'

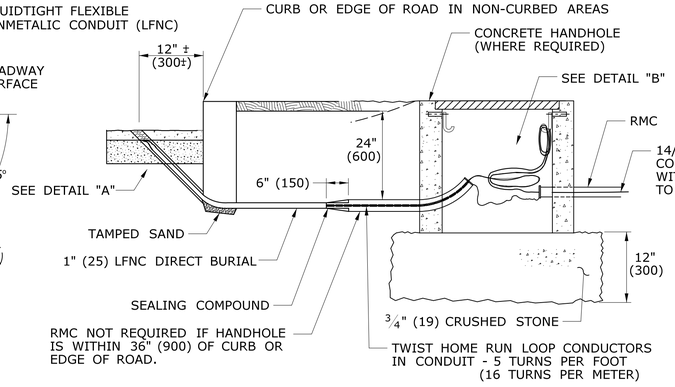
CTDOT STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
GENERAL CLAUSES (TEST PROCEDURES)

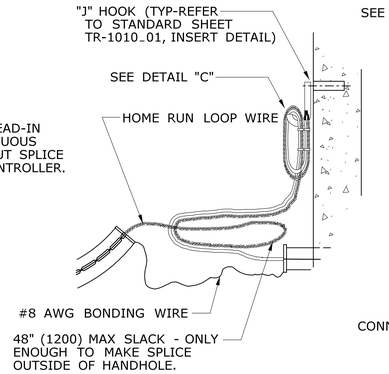
STANDARD SHEET NO.:
TR-1000_01



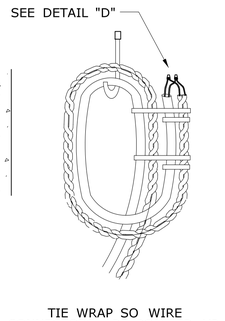
DETAIL "A"



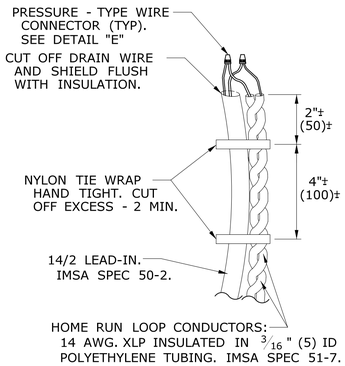
TYPICAL ELEVATION VIEW
LOOP DETECTOR LEAD-IN



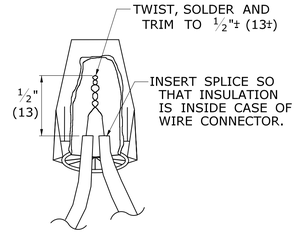
DETAIL "B"



DETAIL "C"
FRONT VIEW



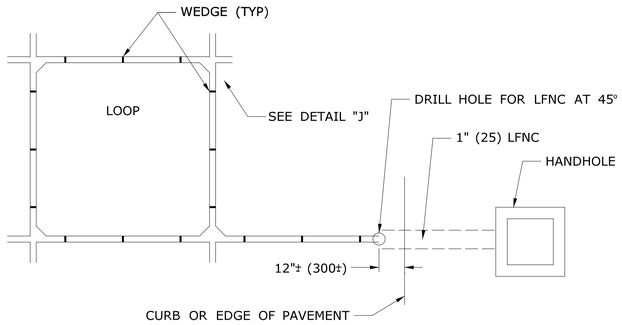
DETAIL "D"



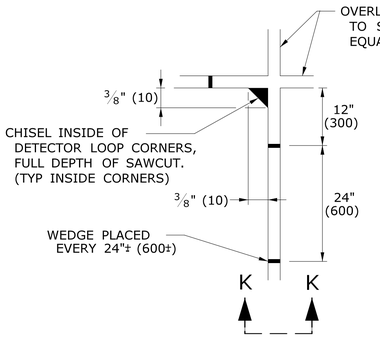
NOTE:

WATER RESISTANT CONNECTOR DESIGNED FOR WET, DAMP AND CORROSIVE APPLICATIONS. ONE TIME USE ONLY. DISCARD ALL REMOVED CONNECTORS.

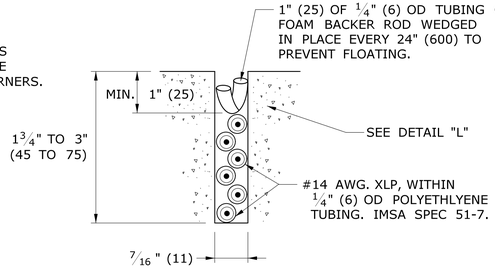
DETAIL "E"



TYPICAL PLAN VIEW
LOOP DETECTOR SAWCUT AND LEAD-IN



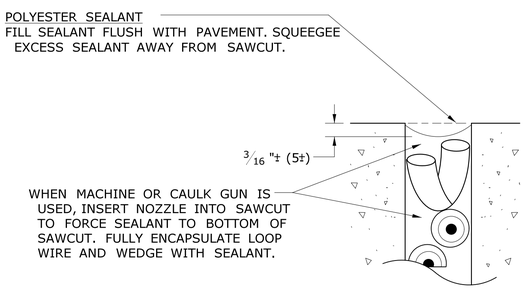
DETAIL "J"



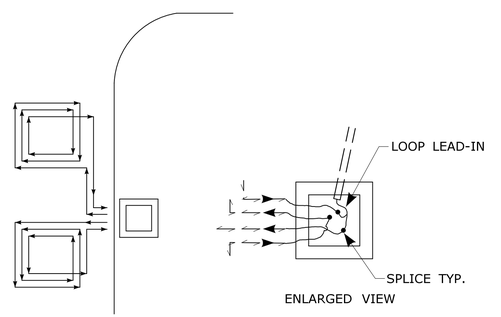
DETAIL "K"

NOTES:

REFER TO STANDARD SPECIFICATIONS, SECTION 11-11.
ONLY USE POLYESTER COMPOUND AS SEALANT, UNLESS OTHER TYPE IS APPROVED BY ENGINEER.
WET SAW CUT ONLY, DRY SAW CUT NOT PERMITTED.
RECOMMENDED SAW BLADE: 14" x ⅜" (350 x 10) PRODUCES 7/16 " (11) SLOT.
SAW CUT LOOP & HOME RUN DEPTH TO ENSURE MIN. 1" (25) SEALANT COVERAGE.

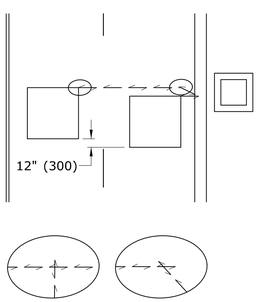


DETAIL "L"



TYPICAL WINDING
SEGMENTED LOOPS, 3 TURNS EACH

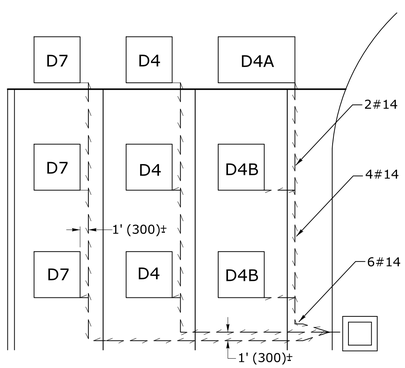
TO CREAT A UNIFORM MAGNETIC FIELD, WIND ADJACENT LOOPS IN OPPOSITE DIRECTIONS.



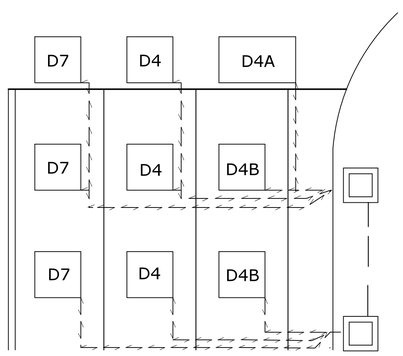
ACCEPTABLE SAW CUT

NOT ACCEPTABLE SAW CUT

DO NOT OVERLAP MORE THAN TWO SAWCUTS.



EXAMPLE A



EXAMPLE B

REAR SEGMENTS ALSO USED FOR VOLUME COUNTS

SEE TRAFFIC SIGNAL PLAN FOR ACTUAL LOOP PLACEMENT, NUMBERS, ETC...
LOOP SEGMENTS ON SAME AMPLIFIERS MAY SHARE HOME RUN SAW CUT. SPLICE SEGMENTS IN SERIES.
LOOP SEGMENTS ON DIFFERENT AMPLIFIERS MUST BE IN SEPARATE HOME RUN SAW CUT.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
- INDUCTIVE LOOP DETECTOR
- SAW CUT
- RIGID METAL CONDUIT
- HANDHOLE

REV.	DATE	REVISION DESCRIPTION
3	4-2014	DETAIL "B" - REVISED "J" HOOK NOTE.
2	7-2012	DELETED URETHANE SEALANT NOTE FROM DETAIL "L"
1	4-2012	MINOR REVISIONS.

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: 4/21/2014

DIMENSIONS ARE IN ENGLISH (.") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED:
- OVER 1" TO NEAREST 5 mm
- UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.DGN Model: TR-1111_01

SUBMITTED BY: NAME/DATE/TIME:
Tracy L. Fogarty, P.E. 2014.04.25 16:02:20-04'00'

APPROVED BY: NAME/DATE/TIME:
Digitally signed by Charles S. Harlow, P.E. Date: 2014.04.29 14:27:33-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

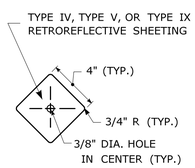
LOOP VEHICLE DETECTOR AND SAWCUT

STANDARD SHEET NO.:

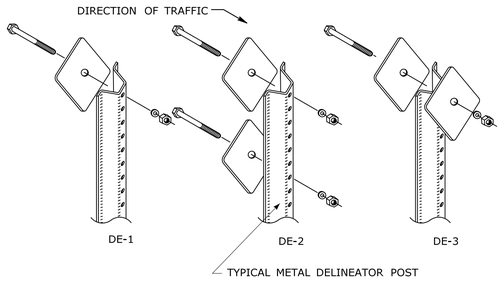
TR-1111_01

DELINEATORS DE-1, DE-2, DE-3

INSTALLATION ON DELINEATOR POSTS



SIGN #51-5028 WHITE
SIGN #51-5029 YELLOW



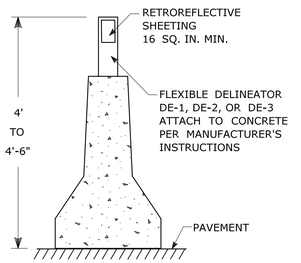
COLORS: - YELLOW OR WHITE.

DELINEATORS - .0625" THK. ALUMINUM ALLOY.

FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE IV, TYPE V, OR TYPE IX RETROREFLECTIVE SHEETING.

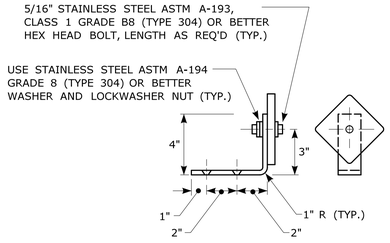
DELINEATORS SHALL BE FASTENED WITH 5/16" STAINLESS STEEL ASTM A-193 CLASS 1, GRADE B8 (TYPE 304) OR BETTER HEX HEAD BOLT (LENGTH AS REQUIRED), WASHER AND FIBER INSERT SELF LOCKING NUT, ON STANDARD METAL DELINEATOR POST.

INSTALLATION ON PERMANENT CONCRETE BARRIER, BRIDGE PARAPETS AND RETAINING WALLS

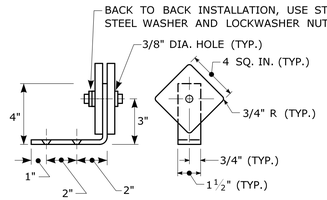


DELINEATORS DE-1, DE-2, DE-3 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

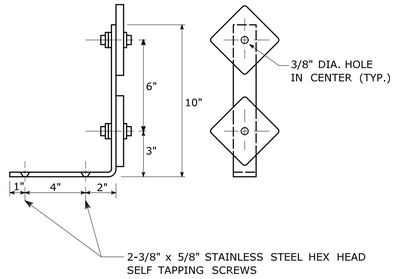
DELINEATORS DE-4, DE-4A, DE-5 FOR INSTALLATION ON METAL BRIDGE RAIL



DE-4



DE-4A

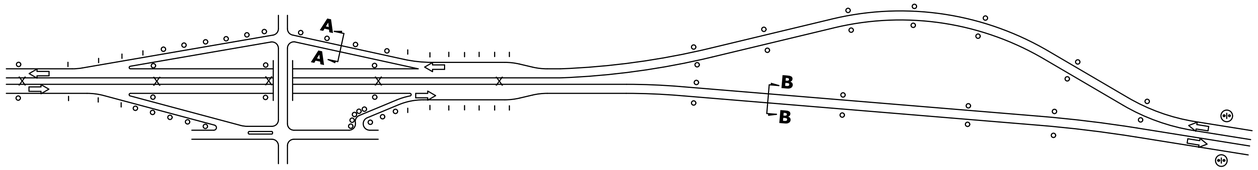


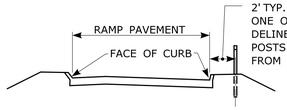
DE-5

COLORS: - YELLOW OR WHITE.
DELINEATORS - .0625" THK. ALUMINUM ALLOY.
BRACKET - .125" THK. ALUMINUM ALLOY, AND SHALL CONFORM TO SPECIFICATION M.18.07-03 BRIDGE RAIL MOUNTING BRACKETS.
FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE IV, TYPE V, OR TYPE IX RETROREFLECTIVE SHEETING.
USE STAINLESS STEEL WASHERS ON FACE OF DELINEATORS, 5/8" O.D. X 3/8" I.D. X .032" THK. (TYP.)

DELINEATORS TYPE DE-4, DE-4A, AND DE-5 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

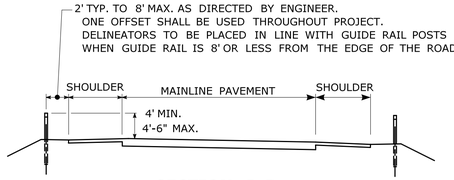
TYPICAL MAINLINE & INTERCHANGE DELINEATION





SECTION A-A

DELINEATOR PLACEMENT ON RAMPS
ON TANGENT SECTIONS - RIGHT SIDE OF RAMP
ON CURVED SECTIONS - BOTH SIDES OF CURVE



SECTION B-B

DELINEATOR PLACEMENT ON MAINLINE

DELINEATOR SPACING NOTES:

1) AT LOCATIONS WHERE THE MEDIAN WIDTH (BETWEEN SHOULDERS) IS 12' OR LESS, AND MEDIAN BEAM RAIL IS PRESENT, TYPE DE-3 DELINEATORS SHALL BE MOUNTED WITHIN THE MEDIAN BEAM RAIL.
2) SPACING ON MAINLINE EXPRESSWAY TANGENTS SHALL BE 400'.
3) SPACING ON MAINLINE EXPRESSWAY CURVES SHALL BE AS SPECIFIED IN TABLE 3F-1 OF THE MUTCD.
4) ON ACCELERATION AND DECELERATION LANES AND ON-RAMP TANGENT SECTIONS, DELINEATOR SPACING SHALL BE 100'.
5) ON CURVED PORTIONS OF RAMPS, DELINEATOR SPACING SHALL BE IN ACCORDANCE WITH TABLE 3F-1 OF THE MUTCD, BUT NOT TO EXCEED 100'.

LEGEND:

- ∘ DE-1 DELINEATORS OR DE-4 DELINEATOR ASSEMBLY
- ı DE-2 DELINEATORS OR DE-5 DELINEATOR ASSEMBLY
- X DE-3 DELINEATORS ASSEMBLY OR DE-4A DELINEATOR
- (H) D10-1, 2, 3, OR 4 ASSEMBLY TO BE INSTALLED WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

COLOR APPLICATION, FOR DE-1 THRU DE-5

LEFT SIDE OF ALL ROADWAYS AND RAMPS - YELLOW
RIGHT SIDE OF ALL ROADWAYS AND RAMPS - WHITE

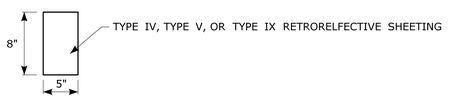
MUTCD TABLE 3F-1 APPROXIMATE SPACING FOR DELINEATORS ON HORIZONTAL CURVES

RADIUS (R) OF CURVE (feet)	APPROXIMATE SPACING (S) ON CURVE (feet)
50	20
115	25
180	35
250	40
300	50
400	55
500	65
600	70
700	75
800	80
900	85
1,000	90

DISTANCE IN FEET WERE ROUNDED TO THE NEAREST 5 FEET. SPACING FOR SPECIFIC RADII MAY BE INTERPOLATED FROM TABLE. THE MINIMUM SPACING SHOULD BE 20 FEET. THE SPACING ON CURVES SHOULD NOT EXCEED 300 FEET. IN ADVANCE OF OR BEYOND A CURVE, AND PROCEEDING AWAY FROM THE END OF THE CURVE, THE SPACING OF THE FIRST DELINEATOR IS 2S, THE SECOND IS 3S, AND THE THIRD 6S BUT NOT TO EXCEED 300 FEET.

S REFERS TO THE DELINEATOR SPACING FOR SPECIFIC RADII COMPUTED FROM THE FORMULA: $S=3\sqrt{R-50}$.

DELINEATORS DE-7, DE-7A, DE-7B, DE-7D FOR INSTALLATION ON TEMPORARY PRECAST CONCRETE BARRIER CURB AND TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)



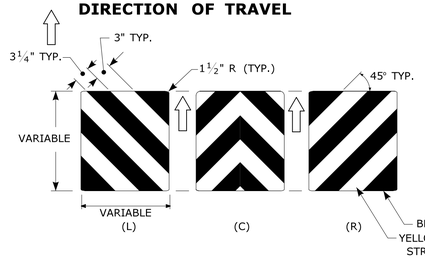
DE-7 ONE WAY WHITE
DE-7A ONE WAY YELLOW
DE-7B TWO WAY YELLOW
DE-7D TWO WAY WHITE
TEMPORARY PRECAST CONCRETE BARRIER DELINEATORS ARE TO BE FABRICATED OF ALUMINUM, STEEL, PLASTIC, OR OF A MATERIAL APPROVED BY THE ENGINEER AND MOUNTED IN THE CENTER OF EACH SECTION OF TEMPORARY BARRIER AS REQUIRED AND PER MANUFACTURER'S INSTRUCTIONS.

SPACING FOR TEMPORARY BARRIER CURB DELINEATORS:

ON THE LEADING TAPERED SECTION - EVERY 20',
ON THE FIRST 100' OF THE PARALLEL SECTION - EVERY 20',
ON THE REMAINING LENGTH - EVERY 100', MINIMUM OF 2 IF LESS THAN 100',
ALTERNATING ONE WAY TRAFFIC - EVERY 20',
ALL OTHER ROADWAYS SHALL BE DELINEATED IN ACCORDANCE WITH MUTCD.

DELINEATORS DE-7, DE-7A, DE-7B, AND DE-7D TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

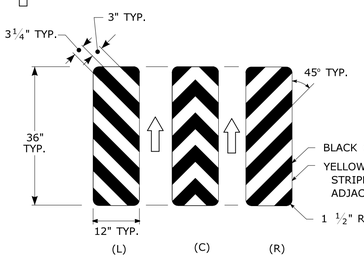
ATTENUATOR REFLECTORS SIGN #40-4266



THIS SHEETING WITHOUT A SUBSTRATE TO BE INSTALLED ON THE NOSE OF THE IMPACT ATTENUATOR WITH ADHESIVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
THE SHEETING SHALL COVER THE NOSE OF THE IMPACT ATTENUATOR.
ON A CURVED NOSE, THE WIDTH OF THE SHEETING SHALL EXTEND 1" BEYOND THE POINT OF CURVATURE ON EACH SIDE OF THE NOSE.
THE HEIGHT AND WIDTH OF THE SHEETING VARIES DEPENDING ON THE SIZE OF THE NOSE OF THE IMPACT ATTENUATOR.

ATTENUATOR REFLECTOR TO BE PAID FOR UNDER SECTION 18.0 IMPACT ATTENUATOR

TYPE 3 OBJECT MARKERS SIGN #41-4267



SIGN #41-4267 MARKER MOUNTED ON 4lb. METAL SIGN POST.
BOTTOM OF SIGN #41-4267 TO BE 4' ABOVE ADJACENT EDGE OF PAVEMENT.
FINAL LOCATIONS OF SIGN #41-4267 MARKERS WILL BE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

TYPE 3 OBJECT MARKER TO BE PAID FOR UNDER SECTION 12.08 SIGN FACE SHEET ALUMINUM

REV.	DATE	REVISION DESCRIPTION
5	8-2018	INCLUDED DE-7D AND REMOVED DE-7C, DE-9, AND DE-10.
4	4-2017	REVISED ATTENUATOR REFLECTOR AND TYPE 3 OBJECT MARKERS.
3	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
2	2-2011	MINOR REVISIONS.
1	1-2010	INCLUDED DETAILS IN D10-1, D10-2, D10-3 DELINEATORS.

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: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1205..01..1..2018.dgn Model: TR-1205..01

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E.
2018.08.17 09:04:28-04'00'

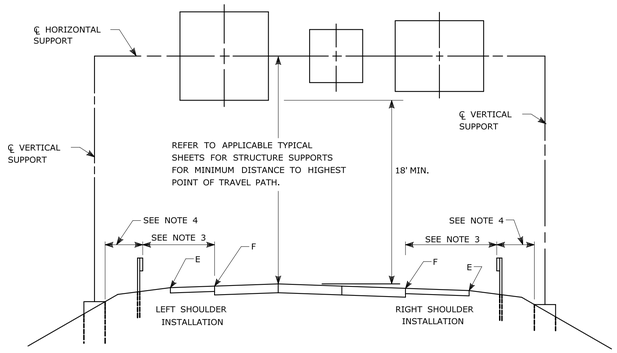
APPROVED BY: NAME/DATE/TIME:
Mark F. Carlino, P.E.
2018.08.21 07:47:46-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS

STANDARD SHEET NO.:
TR-1205_01



TYPICAL PLACEMENT OF OVERHEAD SIGNS ON SIGN SUPPORTS

NOTES:

1) FOR PLACEMENT OF CANTILEVER SIGN SUPPORT USE APPLICABLE PORTION OF ABOVE DETAIL.
2) BARRIER SYSTEMS MAY BE REQUIRED FOR BOTH SIDES OF SUPPORTS IN MEDIANS.
3) IMPACT PROTECTION SHALL BE PROVIDED FOR THE SIGN SUPPORTS LOCATED WITHIN CLEAR ZONE.
4) SIGN SUPPORT FOUNDATIONS SHALL BE LOCATED OUTSIDE OF BARRIER SYSTEMS DEFLECTION AREA.
5) ALL SIGNS ARE TO BE LEVEL, REGARDLESS OF CAMBER IN SUPPORT.

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

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

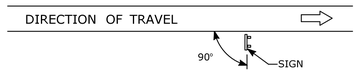


DIAGRAM "A"

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

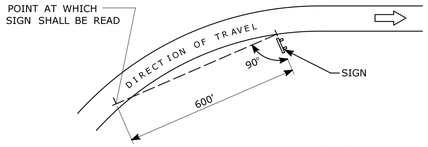
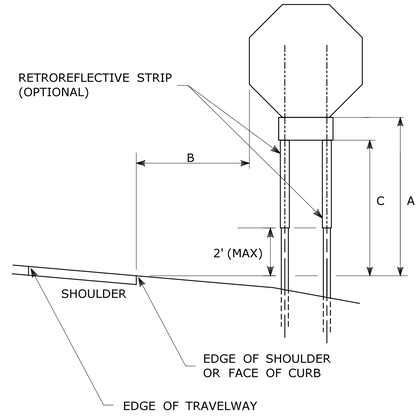
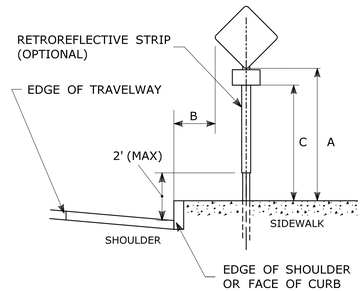
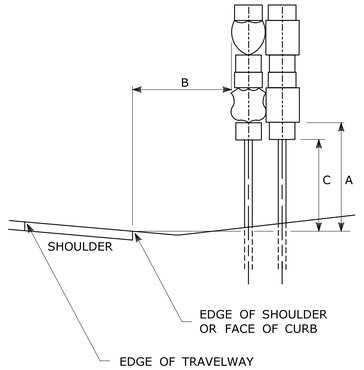


DIAGRAM "B"

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







TYPICAL SIGN PLACEMENT DETAIL

NOTES:

ALL SIGNS AND SHIELDS ON DIRECTIONAL ASSEMBLIES SHALL ABUT VERTICALLY.

REFER TO STANDARD SHEET No. TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR SIGN POSTS AND SIGN MOUNTING.

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

PARKING SIGNS TYPICALLY USE 45° MOUNTING BRACKET.

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

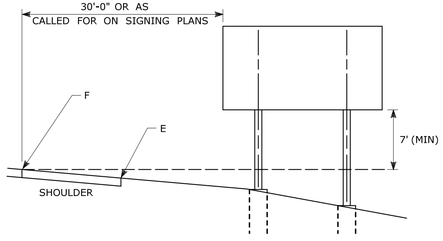
① OR AS DIRECTED BY THE ENGINEER

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

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

④ A LATERAL OFFSET OF AT LEAST 1 FT FROM THE FACE OF THE CURB MAY BE USED WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING UTILITY POLES ARE CLOSE TO THE CURB.

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

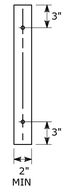


TYPICAL PLACEMENT OF SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

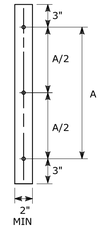
NOTES:

1) MIN. VERTICAL CLEARANCE ABOVE SIDEWALKS SHALL BE 7'.
2) WHERE GUIDE RAIL IS USED, THE OFFSET TO THE NEAR EDGE OF SIGN FACE SHALL BE AS SHOWN ELSEWHERE IN THE CONTRACT PLANS.
3) ON INTERSECTING ROADS AT RAMP TERMINI, THE OFFSET TO THE NEAR EDGE OF OF SIGN FACE SHALL BE 6' MIN. FROM POINT "E".
4) IF 30'-0" MIN. CANNOT BE MET, PLEASE CONTACT THE ENGINEER.

RETROREFLECTIVE STRIPS 48" LONG OR LESS:



RETROREFLECTIVE STRIPS OVER 48" LONG:



RETROREFLECTIVE STRIP DETAIL

NOTES:

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

RETROREFLECTIVE STRIP COLOR SHALL MATCH THE BACKGROUND COLOR OF THE SIGN, EXCEPT THAT THE COLOR OF THE STRIP FOR "YIELD" AND "DO NOT ENTER" SIGNS SHALL BE RED.

REV.	DATE	REVISION DESCRIPTION
3	8-2018	INCLUDED INCIDENT MANAGEMENT AND MILE MARKER SIGNS.
2	4-2017	MINOR REVISIONS.
1	2-2011	MINOR REVISIONS.

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: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR_1208_01_1_2018.dgn Model: TR-1208_01

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E.
2018.08.17 09:06:06-04'00'

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Mark F. Carlino, P.E.
2018.08.21 07:48:06-04'00'

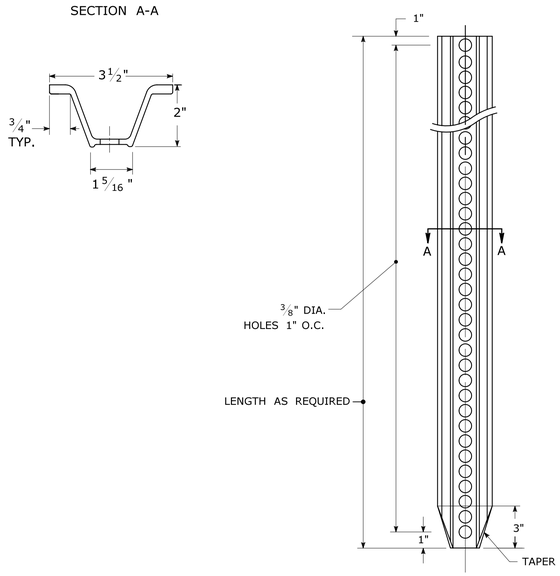
CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

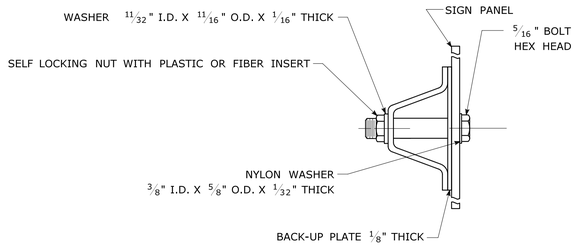
STANDARD SHEET TITLE:
SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS

STANDARD SHEET NO.:
TR-1208_01

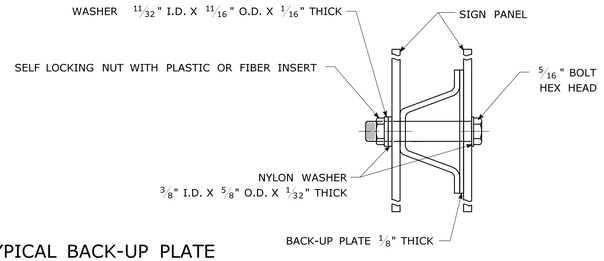
TYPICAL METAL SIGN POSTS



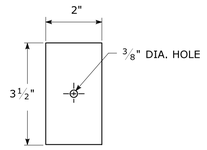
TYPICAL SIGN PANEL ATTACHMENT



TYPICAL BACK TO BACK SIGN PANEL ATTACHMENT



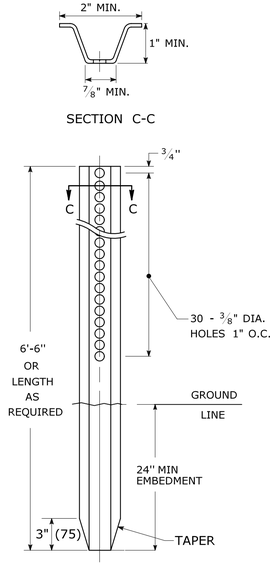
TYPICAL BACK-UP PLATE



BOLTS - STAINLESS STEEL CONFORMING TO ASTM F593, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).
SELF LOCKING NUTS - STAINLESS STEEL CONFORMING TO ASTM F594, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).
WASHERS - STAINLESS STEEL CONFORMING TO ASTM A240, (ALLOY TYPES 304 OR 316).

METAL DELINEATOR POST

WT./FT. = 1.12 LBS./FT. MIN.

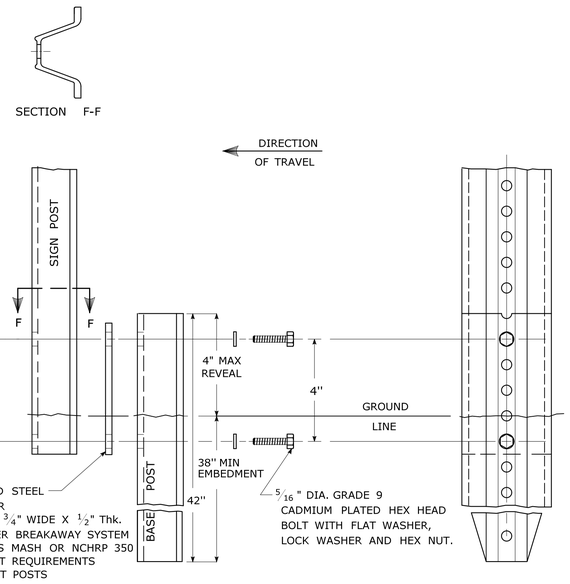


GENERAL NOTES:

1. STEEL FOR DELINEATOR POSTS SHALL BE ASTM A36 STEEL. STEEL FOR ALL OTHER POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499 GRADE 80 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT (MASS) OF 91 LBS. OR GREATER PER LINEAR YARD.
2. AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123.
3. WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
4. SPACER BAR FOR BREAKAWAY INSTALLATION SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A36.
5. ALL BOLTS, NUTS, AND WASHERS FOR BREAKAWAY INSTALLATIONS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153.
6. ALL SIGN POSTS SHALL HAVE BREAKAWAY FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS." THE BREAKAWAY FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGNS SHOWN IN THE PLANS AT 60 mph WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
7. SIGN POSTS SHALL BE 4 LBS./FT.

BREAKAWAY INSTALLATION

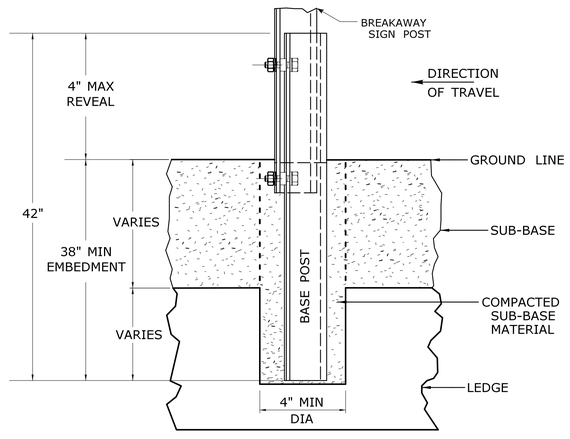
FOR 4 LBS./FT. POSTS



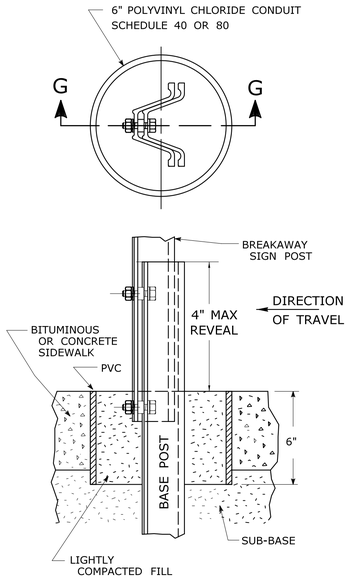
TYPICAL SIGN POST INSTALLATION IN LEDGE

LEDGE SHALL BE REMOVED TO DRIVE THE BASE POST TO A DEPTH OF 38".

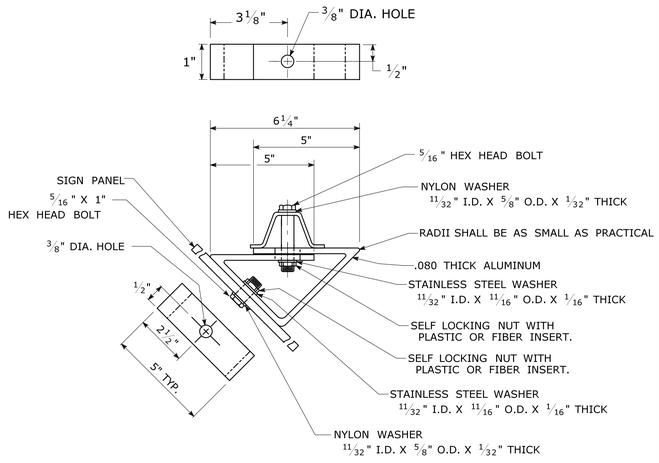
HOLE SHALL BE FILLED WITH SUB-BASE MATERIAL AND COMPACTED WITH A TAMPING BAR, OR TECHNIQUE APPROVED BY THE ENGINEER, PRIOR TO BASE POST INSTALLATION.



TYPICAL SLEEVE FOR PAVED AREAS



45° MOUNTING BRACKET FOR INSTALLATION OF PARKING SIGNS



REV.	DATE	REVISION DESCRIPTION
2	6-2017	SIGN POST REVISIONS.
1	2-2011	MINOR REVISIONS.

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: 6/6/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1208_02_May_2017_Revision.dgn Model: TR-1208_02

SUBMITTED BY:	NAME/DATE/TIME:
Mark Makuch	Mark F. Makuch, P.E. 2017.06.07 07:30:30-04'00'
Mary E. Baker	Mary E. Baker, P.E. 2017.06.13 15:28:14-04'00'
APPROVED BY:	NAME/DATE/TIME:
Gregory M. Dorosh	Gregory M. Dorosh, P.E. 2017.06.15 09:27:29-04'00'

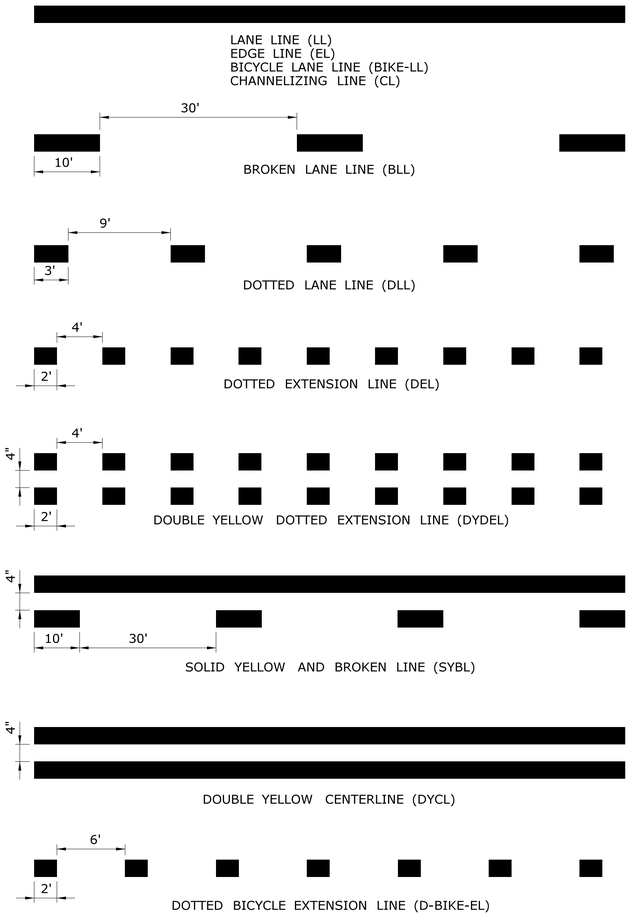
CTDOT STANDARD SHEET

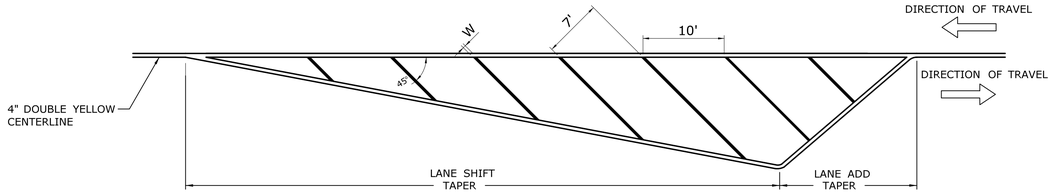
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

METAL SIGN POSTS AND SIGN MOUNTING DETAILS

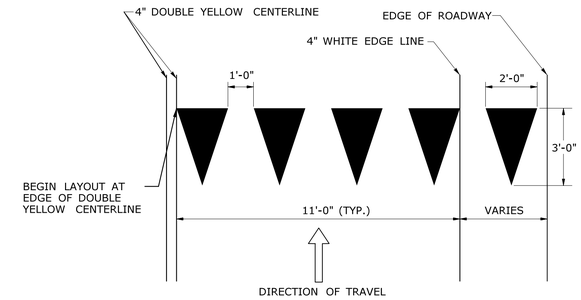
GUIDE SHEET NO.: **TR-1208_02**



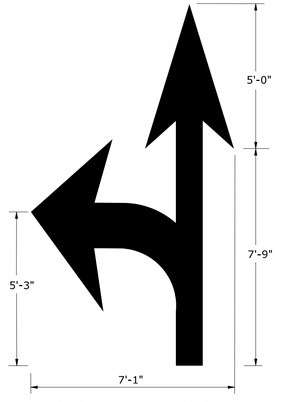


CROSS HATCHED ISLAND DETAIL
(YELLOW)

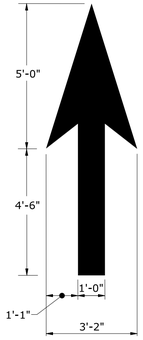
W IS TO BE 6" WHEN POSTED SPEED ≤ 45 MPH
W IS TO BE 12" WHEN POSTED SPEED > 45 MPH
CROSS HATCHED ISLANDS ARE TO BE INSTALLED WHERE CALLED FOR ON THE PLANS



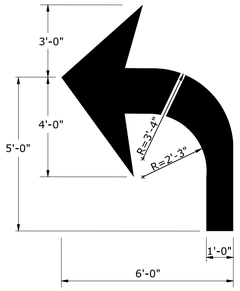
YIELD LINE DETAIL
(WHITE)



REFER TO ADJACENT VIEWS FOR DIMENSIONING
27.0 S.F.



12.5 S.F.



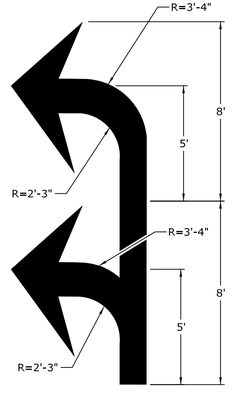
15.5 S.F.



27.0 S.F.
LEFT & RIGHT
ARROW COMBO

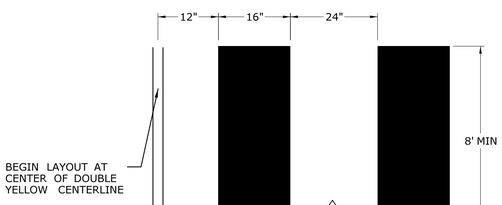


38.5 S.F.
3 WAY ARROW
COMBO



35 S.F.
DOUBLE LEFT
ARROW

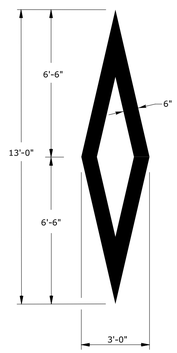
PAVEMENT ARROW DETAILS
(WHITE)
ARROWS SHALL BE CENTERED IN TRAVEL LANE



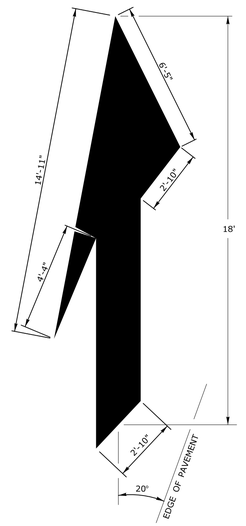
CROSSWALK DETAIL
(WHITE)

NOTES :

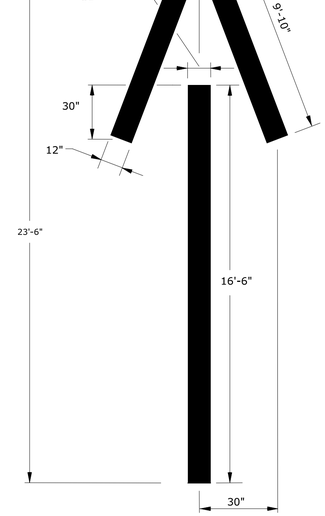
1. AREA OF PAVEMENT MARKINGS AS INDICATED IS APPROXIMATE.
2. RIGHT TURN PAVEMENT MARKING ARROWS ARE MIRROR IMAGE OF LEFT TURN PAVEMENT MARKING ARROWS.



WHITE PREFERENTIAL
LANE SYMBOL
13.0 S.F.



WHITE LANE
REDUCTION ARROW
41.8 S.F.



WHITE WRONG WAY
PAVEMENT ARROW
36.2 S.F.

REV.	DATE	REVISION DESCRIPTION
1	8-2018	REMOVED ROUNDABOUT MARKINGS.

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Plotted Date: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1210_04.dgn Model: CT_Civil_2D_Sheet

SUBMITTED BY:	NAME/DATE/TIME:
Mark Makuch	Mark F. Makuch, P.E. 2018.08.17 09:07:44-04'00'
APPROVED BY:	NAME/DATE/TIME:
	Mark F. Carlino, P.E. 2018.08.21 07:48:45-04'00'

CTDOT
STANDARD SHEET

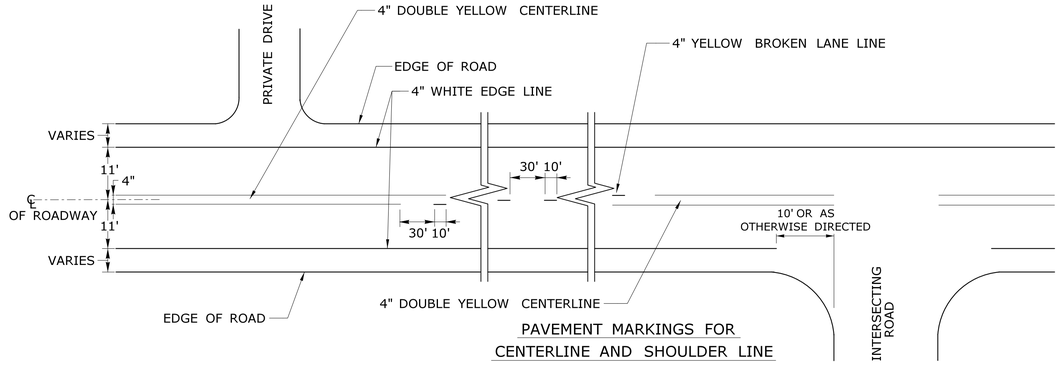
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

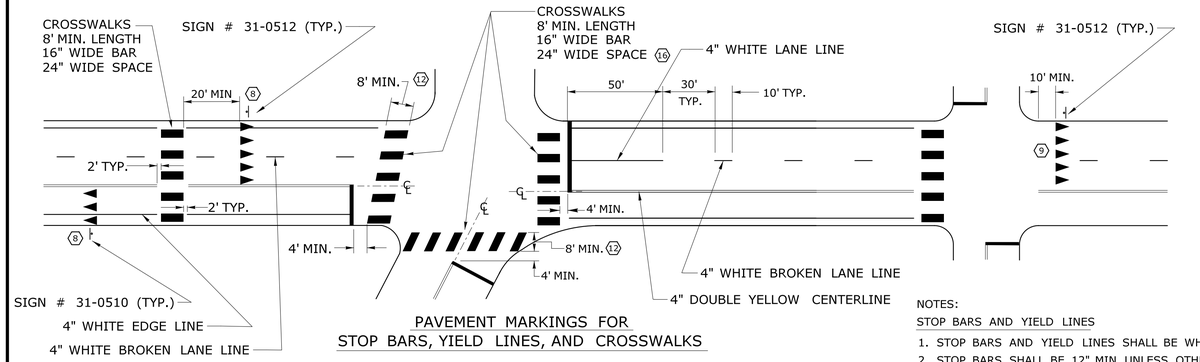
PAVEMENT MARKING LINES AND SYMBOLS

STANDARD SHEET NO.:

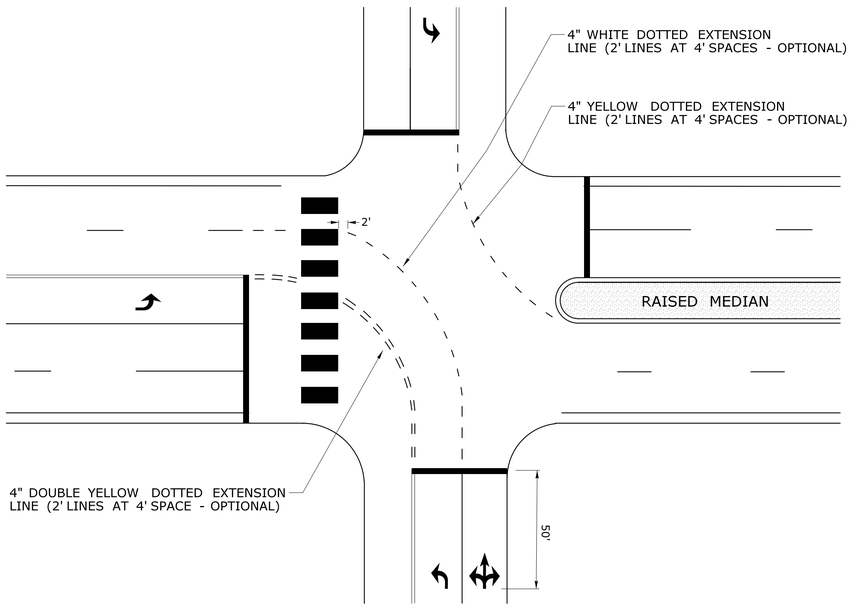
TR-1210_04



PAVEMENT MARKINGS FOR
CENTERLINE AND SHOULDER LINE



PAVEMENT MARKINGS FOR
STOP BARS, YIELD LINES, AND CROSSWALKS



TURNING EXTENSIONS

NOTES:

STOP BARS AND YIELD LINES

1. STOP BARS AND YIELD LINES SHALL BE WHITE.
2. STOP BARS SHALL BE 12" MIN. UNLESS OTHERWISE NOTED ON PLANS.
3. STOP BARS TO BE PLACED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST EDGE OF CROSSWALK AND SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY.
4. IN THE ABSENCE OF A MARKED CROSSWALK THE STOP BAR SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY, AT THE DESIRED STOPPING POINT AT LEAST 5' AND NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
5. THE STOP SIGN SHOULD BE PLACED IN LINE WITH THE STOP BAR. HOWEVER, IF THE STOP SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO STOP, THE STOP BAR SHOULD BE PLACED AT THE STOPPING POINT.
6. FOR STOP BARS AT RAMPS SEE DETAILS "R", "S", "T", & "U" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210 07 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS EXIT RAMPS".
7. FOR YIELD LINE INSTALLATIONS, ONLY FULL TRIANGLES ARE TO BE INSTALLED.

(8) MID-BLOCK CROSSWALKS ARE CROSSWALKS LOCATED MORE THAN 50 FEET FROM A SIGNALIZED OR UNSIGNALIZED INTERSECTION. YIELD LINES ASSOCIATED WITH MIDBLOCK CROSSWALKS SHALL BE INSTALLED AND SHOULD BE LOCATED 20 TO 50 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE OR AS DIRECTED BY THE ENGINEER.
WHERE A YIELD LINE EXISTS ON AN APPROACH TO A CROSSWALK, THE APPROAPRIATE "YIELD TO PEDESTRIANS" SIGN IS REQUIRED.

(9) FOR CROSSWALKS AT UNSIGNALIZED INTERSECTIONS WITH MINOR STREET STOP CONTROL, YIELD LINES SHALL BE INSTALLED ON MULTI-LANE APPROACHES, BUT NOT SINGLE LANE APPROACHES.

10. THE YIELD SIGN SHOULD BE PLACED IN LINE WITH A YIELD LINE. HOWEVER, IF THE YIELD SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO YIELD, THE YIELD LINE SHOULD BE PLACED AT THE YIELDING POINT.

CROSSWALKS

11. CROSSWALK MARKINGS SHALL BE WHITE.

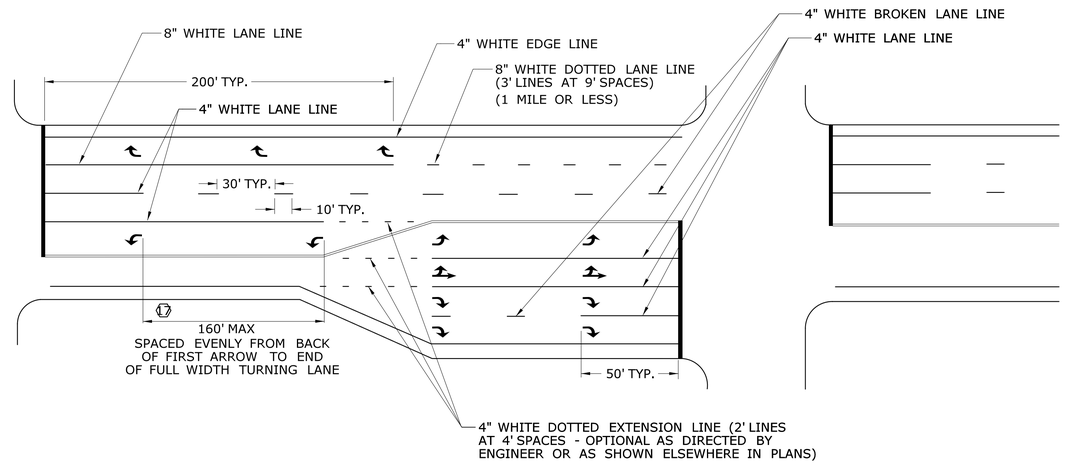
(12) AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO ℄ AND ENDS OF BARS TO BE PARALLEL. THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW.

13. BARS SHOULD BE NO CLOSER THAN 1' FROM EDGE OF ROAD.
14. ONLY FULL LENGTH BARS ARE TO BE INSTALLED.
15. DECORATIVE CROSSWALKS SHALL BE BANDED FROM CURB TO CURB WITH A MINIMUM 12" WIDE WHITE TRANSVERSE LINE ALONG EACH EDGE.

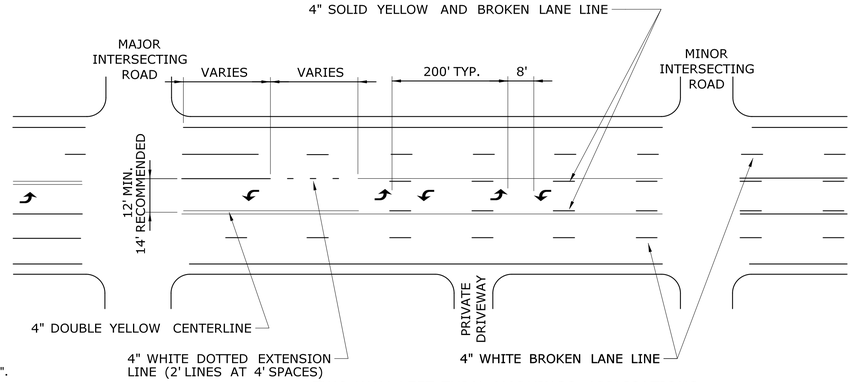
(16) 24" WIDE SPACE TO BE CENTERED ON YELLOW CENTERLINE.

PAVEMENT MARKINGS FOR TURNING LANES

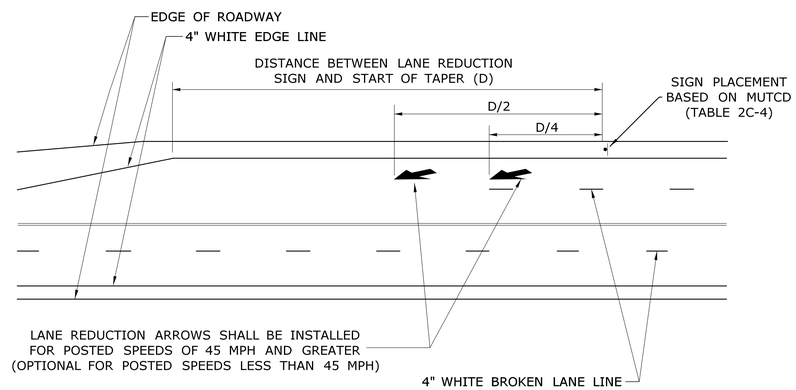
(17) INSTALL AT LEAST TWO ARROWS PER LANE WHERE STORAGE LENGTH IS GREATER THAN 150 FEET.



PAVEMENT MARKINGS FOR TURNING LANES
AND ROAD LANE-DROP



TWO-WAY LEFT-TURN MARKINGS APPLICATIONS



LANE REDUCTION TRANSITIONS

REV.	DATE	REVISION DESCRIPTION
1	8-2018	REVISED YIELD LINE SIGNAGE AND NOTES.

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: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1210_08.DGN Model: TR-1210_05

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E.
2018.08.17 09:10:18-04'00'

APPROVED BY: NAME/DATE/TIME:
Mark F. Carlino, P.E.
2018.08.21 07:49:18-04'00'

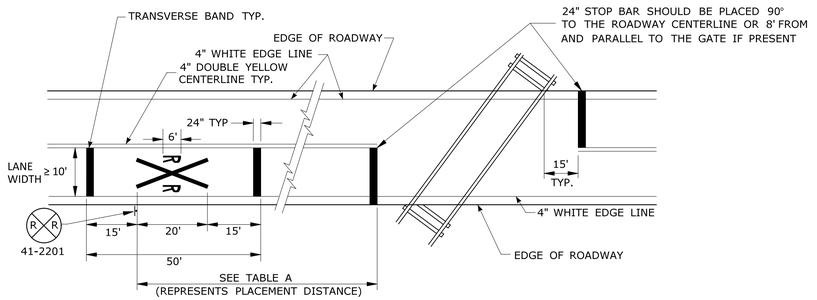
CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

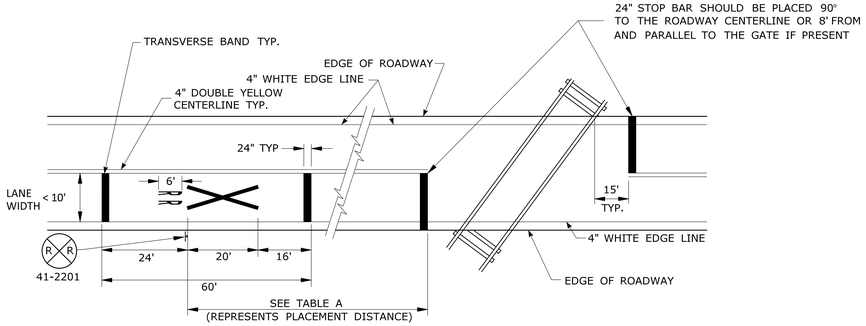
STANDARD SHEET TITLE:
PAVEMENT MARKINGS
FOR NON FREEWAYS

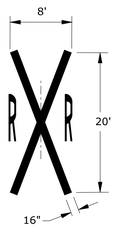
STANDARD SHEET NO.:
TR-1210_08

TYPICAL RAILROAD GRADE CROSSING DETAIL (LANE WIDTH ≥ 10')

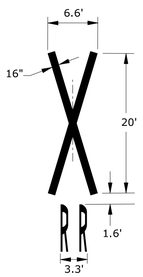


TYPICAL RAILROAD GRADE CROSSING DETAIL (LANE WIDTH < 10')

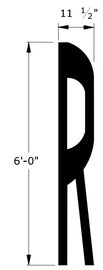




67.5 S.F.



67.5 S.F.



5.75 S.F.

TABLE A	
POSTED OR 85 PERCENTILE SPEED M.P.H.	MINIMUM DISTANCE FT.
20	100
25	100
30	100
35	100
40	125
45	175
50	250
55	325
60	400
65	475

NOTES:

GENERAL:

1. AREA OF PAVEMENT MARKING SYMBOLS AS INDICATED IS APPROXIMATE.
2. REFER TO STANDARD SHEET TR-1210_04 FOR PAVEMENT MARKING LINE DETAILS.

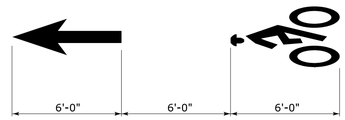
RAILROAD GRADE CROSSINGS:

3. RAILROAD MARKINGS SHALL BE WHITE.
4. ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS THE APPROACH LANES AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

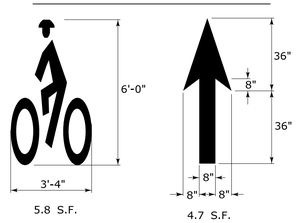
PARKING STALLS:

5. AUTOMOBILE ACCESSIBLE PARKING SPACES SHALL BE 15' WIDE INCLUDING 5' OF CROSSHATCH.
6. VAN ACCESSIBLE PARKING SPACES SHALL BE 16' WIDE INCLUDING 8' OF CROSSHATCH.
7. ACCESS AISLES FOR ANGLED VAN PARKING SPACES SHALL BE LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACE.
8. CROSS HATCHED ACCESS AISLES SHALL NOT BE SHARED BETWEEN PARKING SPACES.

TYPICAL LONGITUDINAL SPACING



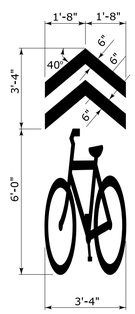
BICYCLE LANE SYMBOL MARKINGS



5.8 S.F.

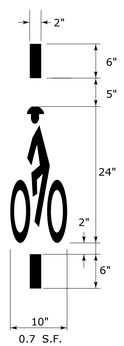
4.7 S.F.

SHARED LANE SYMBOL MARKING



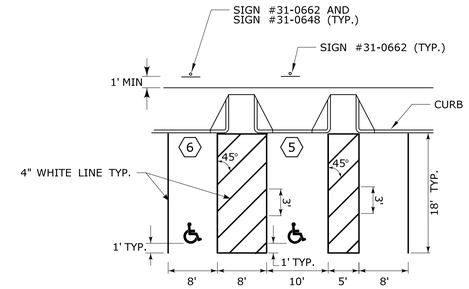
9.7 S.F.

BICYCLE DETECTOR SYMBOL MARKING

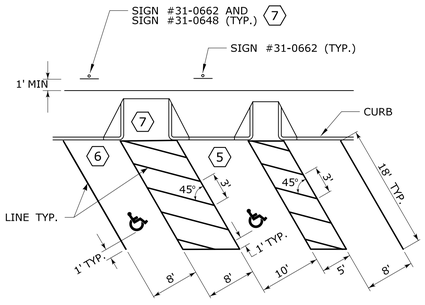


0.7 S.F.

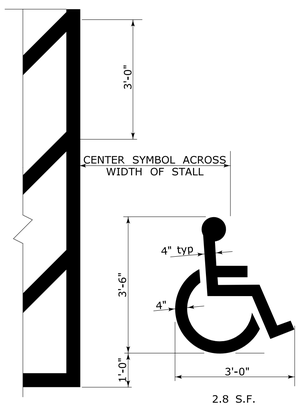
TYPICAL PERPENDICULAR PARKING STALLS DETAIL



TYPICAL ANGLE PARKING STALLS DETAIL



ACCESSIBLE PARKING SPACE SYMBOL



2.8 S.F.

REV.	DATE	REVISION DESCRIPTION

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Plotted Date: 4/3/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1210_09.dgn Model: CT_Civil_2D_Sheet

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E. 2017.04.19 11:17:36-04'00'

APPROVED BY: NAME/DATE/TIME:
Gregory M. Dorosh, P.E. 2017.04.20 13:26:20-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RAILROAD GRADE CROSSINGS

STANDARD SHEET NO.:

TR-1210_09

E5 - SERIES

E5-1

EXIT

COPY & BORDER - WHITE
BACKGROUND - GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16.0	48	51-6147	2

16 - SERIES

CONSTRUCTION AHEAD
ROAD USE RESTRICTED
STATE LIABILITY LIMITED
GENERAL STATUTES SEC 13a-115, 13a-145
COMMISSIONER OF TRANSPORTATION

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16-M	5.0	30X24	80-1613	1
16-H	17.5	60X42	80-1608	2
16-E	35.0	84X60	80-1605	2

CONSTRUCTION AHEAD
SIDEWALK USE RESTRICTED
STATE LIABILITY LIMITED
GENERAL STATUTES SEC 13a-115, 13a-145
COMMISSIONER OF TRANSPORTATION

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16-S	10.0	48X30	80-1619	2

G20 - SERIES

G20-2a

END
ROAD WORK

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
8.0	48X24	80-9612	2

ROAD WORK
NEXT 0 MILE(S)
BE PREPARED
TO STOP

VARIABLE MILEAGE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
90.0	120X108	80-9728	

WORK AREA
BE PREPARED
TO STOP

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9711	1
16.0	48	80-9712	2

NEXT 0 MILES

VARIABLE MILEAGE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
7.0	72X14	80-9720	

BUSINESS
ACCESS

VARIABLE ARROW
COPY & BORDER - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	50-5934	2

M4 - SERIES

M4-8

DETOUR

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
2.0	24X12	80-9707	1

M4-8a

END
DETOUR

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
3.0	24X18	80-9708	1

M4-10

(R) DETOUR
(L) DETOUR

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
6.0	48X18	80-9701R	2
6.0	48X18	80-9702L	2

DETOUR

VARIABLE ARROW

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
5.0	30X24	80-9710	1

M4-9b

DETOUR

VARIABLE ARROW

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
5.0	30X24	80-9703	1

M4-9b

DETOUR

VARIABLE ARROW

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
6.25	30X30	80-9706	1

R4 - SERIES

R4-7

COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
5.0	24X30	31-1526	1

R4-9

STAY
IN
LANE

COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
5.0	24X30	31-1517	1
12.0	36X48	31-1518	1
20.0	48X60	31-1519	2

R1 - SERIES

R1-1

STOP

COPY & BORDER - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
5.19	30	31-0552	1
13.30	48	31-0557	2

R1-2

YIELD

COPY & BORDER - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
3.90	36	31-0523	1
10.83	60	31-0528	2

R9 & R11 - SERIES

R9-9

SIDEWALK
CLOSED

COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
3.75	30X18	80-9076	1

R11-3a

ROAD CLOSED
00 MILES AHEAD
LOCAL TRAFFIC ONLY

VARIABLE MILEAGE
COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
12.5	60X30	80-9077	2

R9-11

SIDEWALK CLOSED
AHEAD
CROSS HERE

VARIABLE ARROW
COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
3.0	24X18	80-9074	1

R11-3b

BRIDGE CLOSED
00 MILES AHEAD
LOCAL TRAFFIC ONLY

VARIABLE MILEAGE
COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
12.5	60X30	80-9078	2

R9-11a

SIDEWALK CLOSED
CROSS HERE

VARIABLE ARROW
COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
2.0	24X12	80-9075	1

R11-3b

ROAD CLOSED
TO
THRU TRAFFIC

COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
12.5	60X30	80-9081	2

R11-2

ROAD
CLOSED

COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
10.0	48X30	80-9080	2

R11-3b

ROAD WORK
AHEAD
FINES
DOUBLED

COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
14.0	48X42	31-1906	2
22.5	60X54	31-1907	2

W1 - SERIES

W1-4

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9432L	1
9.0	36	80-9431R	1
16.0	48	80-9452L	2
16.0	48	80-9451R	2

W1-6

(L or R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
8.0	48X24	80-9424	2
12.5	60X30	80-9423	2

W1-8

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
3.0	18X24	80-9401	1
5.0	24X30	80-9403	1
7.5	30X36	80-9404	1

BOTH LANES SHIFT LEFT AHEAD (L)
BOTH LANES SHIFT RIGHT AHEAD (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16.0	48	80-9433L	2
16.0	48	80-9435R	2

BOTH LANES SHIFT LEFT (L)
BOTH LANES SHIFT RIGHT (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16.0	48	80-9434L	2
16.0	48	80-9436R	2

AHEAD (L) AHEAD (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
25.0	60	80-9443L	2
25.0	60	80-9445R	2

W1-4b

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
25.0	60	80-9444L	2
25.0	60	80-9446R	2

AHEAD (L) AHEAD (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
25.0	60	80-9483L	2
25.0	60	80-9485R	2

W1-4c

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
25.0	60	80-9484L	2
25.0	60	80-9486R	2

W3 - SERIES

W3-1

OCTAGON - RED W/ WHITE BORDER
ARROW & BORDER - BLACK
BACKGROUND - FLUORESCENT ORANGE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9050	1
16.0	48	80-9051	2

W3-2

TRIANGLE - RED W/ WHITE BORDER
ARROW & BORDER - BLACK
BACKGROUND - FLUORESCENT ORANGE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9054	1
16.0	48	80-9055	2

W3-3

TOP CIRCLE - RED
MIDDLE CIRCLE - YELLOW
BOTTOM CIRCLE - GREEN
COPY & BORDER - BLACK
BACKGROUND - FLUORESCENT ORANGE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9052	1
16.0	48	80-9053	2

W4-W6 - SERIES

W4-2

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16.0	48	80-9918L	2
16.0	48	80-9917R	2

W6-3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16.0	48	80-9945	2

W8-W9 - SERIES

W8-1

BUMP

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9901	1
16.0	48	80-9902	2

BUMP
AHEAD

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9801	1
16.0	48	80-9802	2

W9-2

LANE ENDS MERGE LEFT (L)
LANE ENDS MERGE RIGHT (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16.0	48	80-9910L	2
16.0	48	80-9911R	2

W13 - SERIES

W13-1

00
M.P.H.

SUBPLATE
VARIABLE SPEED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
4.0	24	80-9569	1
6.25	30	80-9567	1

REDUCE
SPEED TO
00 MPH

VARIABLE SPEED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9506	1
16.0	48	80-9508	2

W3-5

SPEED LIMIT
00

VARIABLE SPEED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9520	1
16.0	48	80-9521	2

W16 - SERIES

W16-15P

NEW

COPY & BORDER - BLACK
BACKGROUND - ORANGE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
2.0	24X12	80-9049	

W20 - SERIES

W20-1

ROAD
WORK
AHEAD

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
6.25	30	80-9602	1
9.0	36	80-9603	1
16.0	48	80-9604	2

W20-1

ROAD
WORK
0000 FT

VARIABLE DISTANCE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9614	1
16.0	48	80-9615	2

W20-2

DETOUR
1000 FT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9805	1
16.0	48	80-9806	2

ONE LANE
ROAD
AHEAD

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9834	1
16.0	48	80-9835	2

LEFT LANES CLOSED (L) RIGHT LANES CLOSED (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L) 16.0	48	80-9836	2
(R) 16.0	48	80-9839	2

LEFT TWO LANES CLOSED AHEAD (L) RIGHT TWO LANES CLOSED AHEAD (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L) 16.0	48	80-9837	2
(R) 16.0	48	80-9838	2

LEFT LANE CLOSED AHEAD (L) RIGHT LANE CLOSED AHEAD (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L) 16.0	48	80-9847	2
(R) 16.0	48	80-9848	2

LEFT LANE CLOSED (L) RIGHT LANE CLOSED (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L) 16.0	48	80-9846	2
(R) 16.0	48	80-9849	2

W20-7a

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9803	1
16.0	48	80-9804	2

SLOW MOVING
TRUCKS AHEAD

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
32.0	96X48	80-9815	2

W16-9P

AHEAD

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
2.0	24X12	80-9870	
3.75	30X18	80-9871	

W16-3aP

1 MILE

VARIABLE MILEAGE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
2.5	30X12	80-9872	
4.5	36X18	80-9873	

W21 - SERIES

W21-6

SURVEY
CREW

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9607	1

W22 - SERIES

W22-1

BLASTING
ZONE
1000 FT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9620	1
16.0	48	80-9625	2

W22-2

TURN OFF
2-WAY RADIO
AND
CELL PHONE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
10.5	42X36	80-9623	2

W22-3

END
BLASTING
ZONE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
10.5	42X36	80-9621	2

(VARIABLE LEGEND)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
4.17	60X10	80-9913	2
12.0	96X18	80-9914	2
3.33	48X10	80-9916	2

BLANK OR
VARIABLE LEGEND

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9933	1
16.0	48	80-9934	2

USE
SHOULDER

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16.0	48	80-9956	2

(VARIABLE LEGEND)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
12.5	60X30	80-9928	2
24.0	72X48	80-9929	2

SHOULDER CLOSED AHEAD (1) SHOULDER CLOSED (2)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(1)	16.0	48	80-9957	2
(2)	9.0	36	80-9958	1
(2)	16.0	48	80-9959	2

STOP-SLOW PADDLE

SIDE A: STOP — SIDE B: SLOW

SIDE A
BACKGROUND - RED
COPY & BORDER - WHITE
SIDE B
BACKGROUND - ORANGE
COPY & BORDER - BLACK PLAIN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
2.25	18	80-9950	PADDLE

NOTES:
1. R1-SERIES SIGN THE LEGEND "O.S.T.A." SHALL APPEAR.
2. POSTS - SEE STANDARD SHEET TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS".
3. POSTS SHALL BE 4 LBS./FT.
4. ALL POSTS NOTED ARE FOR LONG TERM INSTALLATION. SEE STANDARD SHEET TR-1208_02.
5. FOR TEMPORARY SUPPORTS SEE STANDARD SHEET TR-1220_02 - "CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES".
6. FOR SPECIFIC SIGN DESIGN, CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
7. ALL CONSTRUCTION SIGNS TO BE PAID FOR UNDER THE CONSTRUCTION SIGNS ITEM IN THE CONTRACT.
8. MATERIALS & COLORS SHALL CONFORM TO STATE SPECIFICATIONS.

MATERIALS:
SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES. ALUMINUM THICKNESS FOR POST MOUNTED SIGNS SHALL BE .100" EXCEPT SIGN #s. 80-1605, 80-9914, 80-9815, 80-9728, 80-9519, & 51-6147 (L OR R) WHICH SHALL BE .125", PLYWOOD THICKNESS FOR POST MOUNTED SIGNS SHALL BE 1/2" EXTERIOR GRADE A-C OR BETTER. SIGN BLANKS SHALL HAVE ONE COAT OF PRIMER PAINT PRIOR TO APPLICATION OF RETROREFLECTIVE SHEETING & COPY.

COLORS:
BACKGROUND - FLUORESCENT ORANGE - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL SIGNS WITH FLUORESCENT ORANGE BACKGROUND TO USE TYPE VIII RETROREFLECTIVE SHEETING.
ALL OTHER SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION
6	8-2018	REVISED POST REQUIREMENTS AND SHEETING TYPE.
5	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
4	6-2012	REVISED NOTE #1 TO REFERENCE "O.S.T.A."
3	4-2012	REVISED NEW SIGNAL SIGN(S) TO CONFORM TO 2009 MUTCD.
2	2-2011	MINOR REVISIONS.
1	3-2010	REMOVED OBSOLETE SIGNS (50-5925, 50-5935).

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: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1220_01_1_2018.dgn Model: TR-1220_01

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E.
2018.08.17 09:11:08-04'00'

APPROVED BY: NAME/DATE/TIME:
Mark F. Carlino, P.E.
2018.08.21 07:49:34-04'00'

CTDOT STANDARD SHEET

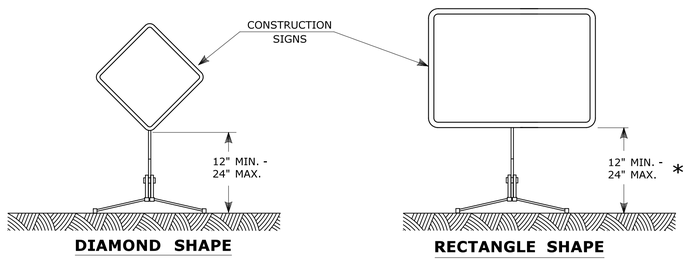
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS

STANDARD SHEET NO.:

TR-1220_01

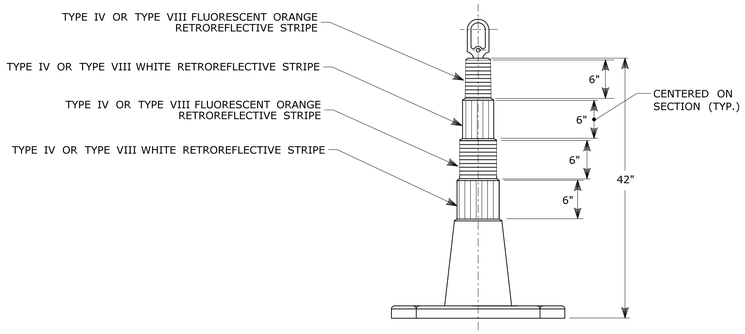


PORTABLE CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

1. SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24". 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) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
5. PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220_01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.

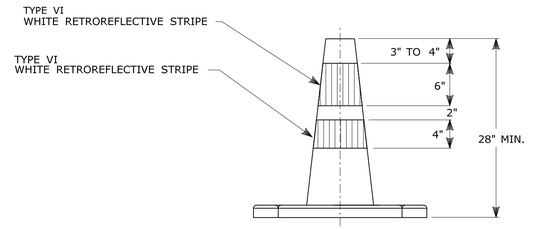
* FOR E5-1 (EXIT SIGNS) USE MIN 48".



42" TRAFFIC CONE

NOTES:

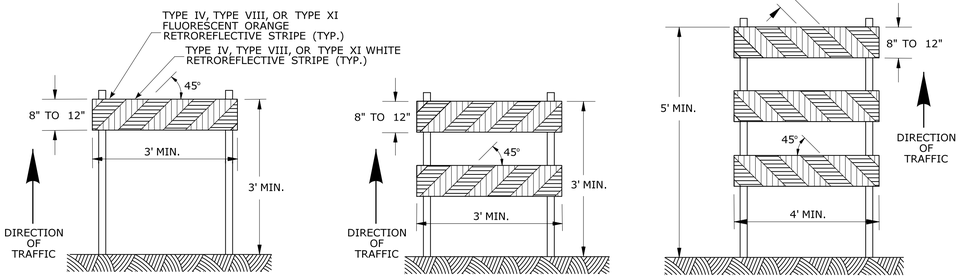
1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
5. THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
6. THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



TRAFFIC CONE

NOTES:

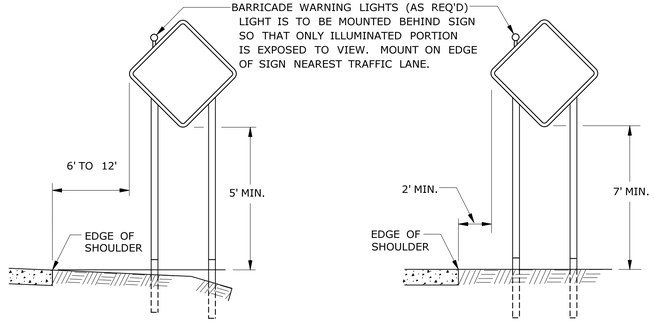
1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
5. THE ENTIRE AREA OF WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
6. TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
7. THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



CONSTRUCTION BARRICADES

NOTES:

1. CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
2. MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE FLUORESCENT ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
3. THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
5. CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
6. SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.

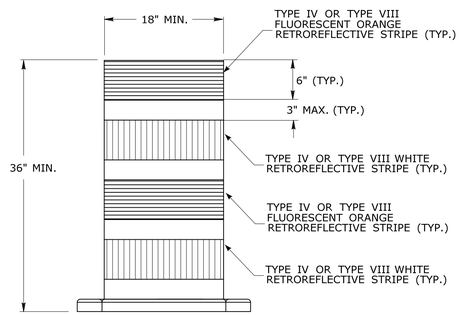


PLACEMENT OF CONSTRUCTION SIGNS
TYPICAL LONG TERM INSTALLATION

NOTES:

SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.

REFER TO STANDARD SHEETS:
TR-1208_01 - "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS."
TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."



TRAFFIC DRUM
FRONT VIEW

NOTES:

1. TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES 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 FLUORESCENT 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.

REV.	DATE	REVISION DESCRIPTION
3	8-2018	UPDATED SHEETING TYPE AND COLOR.
2	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
1	2-2011	MINOR REVISIONS.

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: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1220_02_3_2018.dgn Model: TR-1220_02

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E.
2018.08.17 09:12:43-04'00'

APPROVED BY: NAME/DATE/TIME:
Mark F. Carlino, P.E.
2018.08.21 07:49:51-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES

STANDARD SHEET NO.:
TR-1220_02

TITLE		DATE*
TR-GS_01	SIGN FACE SHEET ALUMINUM R SERIES TYPICAL SIGN DETAILS	10-18
TR-GS_02	SIGN FACE SHEET ALUMINUM S & W SERIES TYPICAL SIGN DETAILS	06-18
TR-GS_03	SIGN FACE SHEET ALUMINUM D, RS, E, I, & M SERIES TYPICAL SIGN DETAILS	06-18

TITLE	DATE*

*REVISED OR ADDED

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-			

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 10/15/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_GS.dgn Model: TR-GDS_INDEX

OFFICE OF ENGINEERING

TRAFFIC ENGINEERING GUIDE SHEET INDEX

GUIDE SHEET NO.:

TR-GS_INDEX

R1 - SERIES

R1-1



LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.85	18	31-0532	1	.080
5.19	30	31-0552	1	.080
7.98	36	31-0553	1	.080
13.3	48	31-0557	2	.100

R1-2



LEGEND - RED
BACKGROUND -WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.97	18	31-0520	1	.080
3.90	36	31-0523	1	.080
6.77	48	31-0522	2	.100
10.83	60	31-0528	2	.100

R1-3P



LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.75	18X6	31-0508		.080

R2 - SERIES

R2-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-5505	1	.080
7.50	30X36	31-5504	1	.080
12.00	36X48	31-5506	2	.100
20.00	48X60	31-5507	2	.100

R2-4a



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
32	48X96	31-5510	2	.125

R3 - SERIES

R3-1



LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1604	1	.080
9.00	36X36	31-1627	2	.080

R3-2



LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1603	1	.080
9.00	36X36	31-1629	2	.080

R3-3



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1648	1	.080
9.00	36X36	31-1647	2	.080

R3-4



LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1622	1	.080
9.00	36X36	31-1632	2	.080

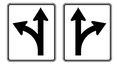
R3-5



31-0183 31-0184

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36		1	.080

R3-6



31-0157 31-0158

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36		1	.080

R3-7



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-0117	1	.080
9.00	36X36	31-0120	2	.080

R3-7



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-0118	1	.080
9.00	36X36	31-0123	2	.080

R3-6



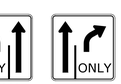
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0175	1	.080

R3-8



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30	31-0290	1	.080

R3-8



31-0222 31-0223

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30		1	.080

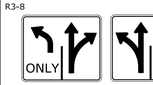
R3-8



31-0262 31-0261

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30		1	.080

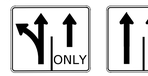
R3-8



31-0282 31-0283

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

R3-8



31-0295 31-0219

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

R3-8



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30	31-0279	2	.100

R3-8

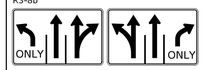
31-0262 31-0261

R3-8b



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30	31-0302	2	.100

R3-8b



31-0307 31-0372

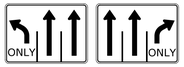
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30		2	.100

R3-8b



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	**42X30**	**31-0334**	**2**	**.100**

R3-8b



31-0370 31-0371

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30		2	.100

R4 - SERIES

R4-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1502	1	.080

R4-16



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-1574	2	.100

R4-3



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1562	1	.080
20.00	48X60	31-1564	2	.100

R4-7



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1526	1	.080
12.00	36X48	31-1536	2	.100
20.00	48X60	31-1546	2	.100

R5 - SERIES

R5-1



LEGEND - WHITE
BACKGROUND - WHITE
CIRCLE - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-1119	1	.080
9.00	36X36	31-1120	2	.080
16.00	48X48	31-1121	2	.100

R5-1a



LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	36X24	31-1122	2	.080
8.75	42X30	31-1123	2	.100

R5-10a(CT)



LEGEND - BLACK
TOP SECTION BACKGROUND - YELLOW
BOTTON SECTION BACKGROUND - WHITE

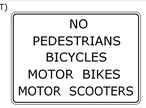
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
32.50	60X78	31-1719	2	.125

R5-10c



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	31-1774	1	.080

R5-10a(CT)



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36X36	31-1775	2	.100

R5-11



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	31-1790	1	.080
20.00	48X36	31-1792	2	.100

R6 - SERIES

R6-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	36X12	31-1188	1	.080
6.75	54X18	31-1189	2	.100

R6-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	36X12	31-1177	1	.080
6.75	54X18	31-1178	2	.100

R7 - SERIES

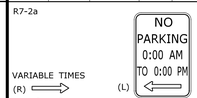
R7-1



LEGEND - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0630	1	.080

R7-2a



LEGEND - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0603	1	.080

R8 - SERIES

R8-7



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
12.00	48X36	31-0670	2	.100

R9 - SERIES

R9-3



LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	18X18	31-1705	1	.080
4.00	24x24	31-1769	1	.080
6.25	30x30	31-1770	1	.080

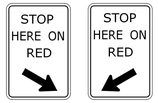
R9-3a



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-1702	1	.080

R10 - SERIES

R10-6



31-0801 31-0802

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	24X36		1	.080

R10-7



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-0806	1	.080

R10-11b



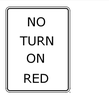
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36X36	31-0816	2	.080

R10-10L



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0852	1	.080

R10-11a



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0830	1	.080
12.00	36X48	31-0819	2	.100

R10-11c(CT)



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0847	1	.080

R11 - SERIES

R11-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1915	1	.080
20.00	48X60	31-1918	2	.100

RETROREFLECTIVE STRIP



LEGEND - N/A
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.00	4X36	31-5003	1	.080
2.00	4X72	31-5004	1	.080

NOTES:

1. THE LEGEND "O.S.T.A." SHALL APPEAR ON ALL R- SERIES SIGNS EXCEPT WHEN SUFFIXED WITH THE LETTER "Z".
2. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
3. POSTS - SEE STANDARD SHEET TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
4. POSTS SHALL BE 4 LBS./FT.
5. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
6. FOR OVERHEAD MOUNTED SIGNS, SEE STANDARD SHEET TR-1114_01 - "BONDING AND UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAIL."

COLORS:

BACKGROUND - WHITE - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
2	10-2018	REVISED R5-11 SIGNS PER MUTCD	
1	6-2018	NEW SHEET ISSUED	TR-GS_01

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: 10/19/2018

DESIGNER/DRAFTER: **A. MERMELSTEIN**
CHECKED BY: **B. SCHILLING**
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_TRAFFIC_GS.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
JEFFERSON AVE. AT CHESTER STREET
ROUNDABOUT & ROADWAY
IMPROVEMENTS

TOWN: NEW LONDON

DRAWING TITLE:
SIGN FACE SHEET ALUMINUM (X)
R-SERIES TYPICAL SIGN DETAILS

PROJECT NO. L094-0002
DRAWING NO. **TR-GS_01**
SHEET NO.

S - SERIES

S1-1



LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.75	36	41-2112	1	.080
12.00	48	41-2113	2	.100

W1 - SERIES

W1-1L



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4006	1	.080
9.00	36	41-4031	1	.080

W1-1R



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4005	1	.080
9.00	36	41-4160	1	.080

W1-6



LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW
(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.00	48X24	41-4223	2	.100
12.50	60X30	41-4262	2	.100

W1-2



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4029	1	.080
9.00	36	41-4169	1	.080

W1-2



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4168	1	.080
9.00	36	41-4032	1	.080

W1-7



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.00	48X24	41-4207	2	.100
12.50	60X30	41-4208	2	.100

W1-8

LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW
(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	18X24	41-3951	1	.080
7.50	30X36	41-4211	1	.080
12.00	36X48	41-4260	2	.080

W2 - SERIES

W2-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4226	1	.080
9.00	36	41-4236	1	.080

W2-2



(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4225	1	.080
9.00	36	41-4235	1	.080

W3 - SERIES

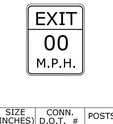
W3-1



OCTAGON - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-0501	1	.080
16.00	48	41-0503	2	.100

W3-2



TRIANGLE - RED & WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-0504	1	.080
16.00	48	41-0506	2	.100

W3-3



SYMBOL & LEGEND - BLACK
BACKGROUND - YELLOW
TOP CIRCLE - RED
BOTTOM CIRCLE - GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-0835	1	.080
16.00	48	41-0848	2	.100



W/ FLASHERS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
25.00	60	41-0534	2	.125

W4 - SERIES

W4-1



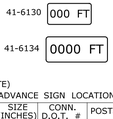
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4448	1	.080
16.00	48	41-4452	2	.100

W4-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4449	1	.080
16.00	48	41-4459	2	.100

W4-2



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4442	1	.080
16.00	48	41-4446	2	.100

W4-2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4441	1	.080
16.00	48	41-4447	2	.100

W4-3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4468	1	.080
16.00	48	41-4435	2	.100

W4-3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4470	1	.080
16.00	48	41-4434	2	.100

W5 - SERIES

W5-1



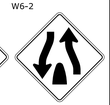
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4402	1	.080
16.00	48	41-4404	2	.100

W6 - SERIES

W6-1

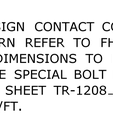


W6-2



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4335	1	.080
16.00	48	41-4330	2	.100

W6-3



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4329	1	.080
16.00	48	41-4331	2	.100

W7 - SERIES

W7-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4506	1	.080
9.00	36	41-4530	1	.080
16.00	48	41-4508	2	.100

W8 - SERIES

W8-5



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4519	1	.080
9.00	36	41-4520	1	.080
16.00	48	41-4521	2	.100

W9 - SERIES

W9-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4443	1	.080
16.00	48	41-4444	2	.100

W9-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4440	1	.080
16.00	48	41-4445	2	.100

W9-2



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4454	1	.080
16.00	48	41-4456	2	.100

W9-2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4453	1	.080
16.00	48	41-4455	2	.100

W11 - SERIES

W11-2



LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4829	1	.080
9.00	36	41-4830	1	.080

W11-8

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4680	1	.080
9.00	36	41-4681	1	.080

W12 - SERIES

W12-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4213	1	.080
9.00	36	41-4215	1	.080

(SUBPLATE)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	41-4721		.080

W12-2



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4706	1	.080
16.00	48	41-4708	2	.100

(SUBPLATE)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	41-4722		.080

W13 - SERIES

W13-1

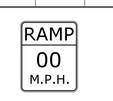


AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	18X18	41-5566		.080
4.00	24X24	41-5567		.080
6.25	30X30	41-5574		.080

W13-2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
12.00	36X48	41-5596	2	.100

W13-3



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
12.00	36X48	41-5581	2	.100

W16 - SERIES

W16-2aP



(SUBPLATE)
USE AT ADVANCE SIGN LOCATION
LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-6140		.080

W16-7PL



(SUBPLATE)
USE AT CROSSWALK
LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-2617		.080

W16-7PR



(SUBPLATE)
USE AT CROSSWALK
LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-2619		.080

W16-9P



(SUBPLATE)
USE AT ADVANCE SIGN LOCATION
LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

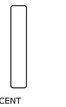
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-6126		.080
3.75	30X18	41-6137		.080

W16-2aP

(SUBPLATE)
USE AT ADVANCE SIGN LOCATION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-6130		.080
3.75	30X18	41-6134		.080

RETROREFLECTIVE STRIP



LEGEND - N/A
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	4X72	41-5010	1	.080



LEGEND - N/A
BACKGROUND - FLUORESCENT YELLOW

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	4X48	41-5001	1	.080
2.00	4X72	41-5006	1	.080

NOTES:

1. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
2. POSTS - SEE STANDARD SHEET TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
3. POSTS SHALL BE 4 LBS./FT.
4. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
5. FLUORESCENT YELLOW RETROREFLECTIVE STRIPS SHALL BE INSTALLED ON ALL SIGN POSTS FOR W1-6 AND W1-8 SIGNS. FLUORESCENT YELLOW GREEN RETROREFLECTIVE STRIPS SHALL BE INSTALLED ON ALL SIGN POSTS FOR S1-1 AND W11-2 SIGNS LOCATED AT CROSSINGS. RETROREFLECTIVE STRIPS SHOULD NOT BE INSTALLED ON ADVANCE CROSSING WARNING SIGNS. SEE STANDARD SHEET TR-1208_01 "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS" FOR RETROREFLECTIVE STRIP DETAILS AND INSTALLATION.

COLORS:

BACKGROUND - YELLOW - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1	6-2018	NEW SHEET ISSUED	TR-GS_02

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: 10/19/2018

DESIGNER/DRAFTER: **A. MERMELSTEIN**
CHECKED BY: **B. SCHILLING**

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_TRAFFIC_GS.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
JEFFERSON AVE. AT CHESTER STREET
ROUNDABOUT & ROADWAY
IMPROVEMENTS

TOWN: NEW LONDON

DRAWING TITLE:
SIGN FACE SHEET ALUMINUM (Y)
S&W SERIES TYPICAL SIGN DETAILS

PROJECT NO. L094-0002
DRAWING NO. **TR-GS_02**
SHEET NO.

D1 - SERIES

D1-1

51-5202 Variable →

D1-2

51-5203 Variable Variable →

VARIABLE LEGEND & ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	60X12	51-5202	2	.100
10.00	60X24	51-5203	2	.100

D3 - SERIES

D3-1

Variable Road Name

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	48X12	51-2010	2	.100
5.00	60X12	51-2011	2	.100
6.00	72X12	51-2012	2	.125
7.00	84X12	51-2013	2	.125

D3-1

Variable Road Name

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	48X18	51-2004	2	.100
7.50	60X18	51-2001	2	.100
9.00	72X18	51-2002	2	.125
10.50	84X18	51-2003	2	.125

D4 - SERIES

D4-2

PARK - RIDE

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	51-6006	1	.080
7.50	30X36	51-6007	1	.080
12.00	36X48	51-6008	2	.100

D4-2

PARK - RIDE

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	51-6033	1	.080
7.50	30X36	51-6034	1	.080
12.00	36X48	51-6035	2	.100

D4-2

PARK - RIDE

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	51-6044	1	.080
7.50	30X36	51-6045	1	.080
12.00	36X48	51-6046	2	.100

NOTICE
THIS PARKING AREA PATROLLED

LEGEND - BLACK BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
15.00	60X36	51-5937	2	.100

PARK AT YOUR OWN RISK
REMOVE KEYS AND LOCK CAR
NOT RESPONSIBLE FOR
PROPERTY LOST OR STOLEN

LEGEND - BLACK BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.50	36X18	51-6037	1	.080

D5 - SERIES

D5-2b

REST AREA

LEGEND - WHITE BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
42.25	78X78	51-6901	2	.125

SERVICE PLAZA

LEGEND - WHITE BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
39.00	72X78	51-6158	2	.125

D7 - SERIES

D-7

51-6802 Variable →

51-6803 Variable Variable →

W or W/O ARROW
VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.17	60X10	51-6802	2	.100
8.33	60X20	51-6803	2	.100

D9 - SERIES

D9-2

H

** FOR ARROW SUBPLATES USE M5 & M6 SERIES

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6788	1	.080

D9-3a

** FOR ARROW SUBPLATES USE M5 & M6 SERIES

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6762	1	.080

51-6705 DIESEL →
51-6706 FOOD →
51-6707 PHONE →
51-6708 GAS →
51-6709 LODGING →

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	36X9		2	.080

D10 - SERIES

D10-4

NORTH / 95 / MILE / 000

CARDINAL DIRECTION, SHIELD AND NUMERALS ARE VARIABLE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.75	18X54	51-5307	1	.080

RECREATIONAL RS- SERIES

RS-054



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6873	1	.080

RS-117



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-7872	1	.080


51-2705


51-2706 L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.19	21X15	51-2705		.080
2.19	21X15	51-2706		.080

E5 - SERIES

E5-1a

EXIT 00

FOR USE AT "NO NUMBERED" EXITS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
30.00	72X60	51-6150	2	.125

E5-1a

EXIT 00 51-6124

EXIT 00 51-6125

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
32.50	78X60		2	.125

E5-1a

EXIT 00 B 51-6126

EXIT 00 B 51-6127

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
45.00	108X60		2	.125

E5-1a

EXIT 00 A-B 51-6128

EXIT 00 A-B 51-6129

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
57.50	138X60		2	.125

I - SERIES

I-3

(Variable) River

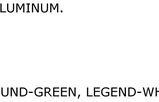
VARIABLE: RIVER, BROOK, CREEK

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	18X12	51-2009	1	.080
4.50	36X18	51-2007	2	.080
12.00	48X36	51-2051	2	.100

(Town Name)
(INCORPORATED OR SETTLED) (DATE)
TOWN LINE

VARIABLE: TOWN / CITY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	40X27	51-2020	2	.080



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30	51-2040	2	.100

I-7



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-1448	1	.080
6.25	30X30	51-1445	1	.080

INCIDENT MANAGEMENT

N 0 .0 | N 0 0 .0 | N 0 0 0 .0

CARDINAL DIRECTION VARIABLE - N, S, E, W

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	12X36	51-5103	1	.080
4.00	12X48	51-5104	1	.080
5.00	12X60	51-5105	1	.080



SYMBOL - WHITE BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	18X24	51-5943	1	.080

51-6504 Variable

51-6505 Variable Variable

TO BE SUBMOUNTED W/ 51-5943
LEGEND - WHITE BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.75	18X6	51-6504		.080
1.50	18X12	51-6505		.080

M1 - SERIES

M1-1

INTERSTATE CONNECTICUT 00 — 51-6662 51-6666 VARIABLE: 1 or 2 DIGITS

INTERSTATE CONNECTICUT 000 — 51-6663 51-6667 VARIABLE: 3 DIGITS

LEGEND - WHITE BACKGROUND - RED & BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.20	24X24	51-6662	1	.080
3.99	30X24	51-6663	1	.080
7.20	36X36	51-6666	2	.080
8.99	45X36	51-6667	2	.100

M1-4

00 — 51-6615 51-6635 VARIABLE: 1 or 2 DIGITS

000 — 51-6644 51-6645 VARIABLE: 3 DIGITS

LEGEND - BLACK BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6615	1	.080
5.00	30X24	51-6644	1	.080
9.00	36X36	51-6635	2	.080
11.25	45X36	51-6645	2	.100

M1-5

00 — 51-6616 51-6636 VARIABLE: 1 or 2 DIGITS

000 — 51-6647 51-6646 VARIABLE: 3 DIGITS

LEGEND - BLACK BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6616	1	.080
5.00	30X24	51-6647	1	.080
9.00	36X36	51-6636	2	.080
11.25	45X36	51-6646	2	.100

M2 - SERIES

M2-1

JCT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-6640	(1)	.080
		51-6610	(2)	.080

M3 - SERIES

M3-1

NORTH

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6651	(1)	.080
2.00	24X12	51-6611	(2)	.080
4.50	36X18	51-6655	(1)	.080
4.50	36X18	51-6625	(2)	.080

M3-4

WEST

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6654	(1)	.080
2.00	24X12	51-6614	(2)	.080
4.50	36X18	51-6658	(1)	.080
4.50	36X18	51-6628	(2)	.080

M3-2

EAST

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6652	(1)	.080
2.00	24X12	51-6612	(2)	.080
4.50	36X18	51-6656	(1)	.080
4.50	36X18	51-6626	(2)	.080

M3-3

SOUTH

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6653	(1)	.080
2.00	24X12	51-6613	(2)	.080
4.50	36X18	51-6657	(1)	.080
4.50	36X18	51-6627	(2)	.080

M4 - SERIES

M4-5

TO

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6650	(1)	.080
		51-6620	(2)	.080

M5 - SERIES

M5-1


51-2690 51-2630 | 51-2691 51-2631

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2690	(1)	.080
2.19	21X15	51-2691	(1)	.080
2.19	21X15	51-2630	(2)	.080
2.19	21X15	51-2631	(2)	.080

M5-2


51-2692 51-2632 | 51-2693 51-2633

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2692	(1)	.080
2.19	21X15	51-2693	(1)	.080
2.19	21X15	51-2632	(2)	.080
2.19	21X15	51-2633	(2)	.080

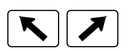
M6 - SERIES

M6-1

L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2688	(1)	.080
2.19	21X15	51-2689	(1)	.080
2.19	21X15	51-2628	(2)	.080
2.19	21X15	51-2629	(2)	.080
4.38	30X21	51-2609	(2)	.080

M6-2


51-2688 51-2628 | 51-2689 51-2629 51-2609

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2688	(1)	.080
2.19	21X15	51-2689	(1)	.080
2.19	21X15	51-2628	(2)	.080
2.19	21X15	51-2629	(2)	.080
4.38	30X21	51-2609	(2)	.080

M6-3



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2685	(1)	.080
2.19	21X15	51-2625	(2)	.080

M6-4

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2697	(1)	.080
2.19	21X15	51-2627	(2)	.080

NOTES:

1. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
2. POSTS - SEE STANDARD SHEET TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
3. POSTS SHALL BE 4 LBS./FT.
4. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.

COLORS:

D - SERIES
- D1, 2, 3, 4, 10 BACKGROUND-GREEN, LEGEND-WHITE
- D7, RS BACKGROUND-BROWN, LEGEND-WHITE
- D9 BACKGROUND-BLUE, LEGEND-WHITE
- ALL OTHER D-SERIES AS NOTED

E - SERIES
- BACKGROUND-GREEN, LEGEND-WHITE

I - SERIES
- BACKGROUND-GREEN, LEGEND-WHITE (EXCEPT AS NOTED)

M2 - M6 SERIES
- (1) BACKGROUND-BLUE, LEGEND-WHITE
- (2) BACKGROUND-WHITE, LEGEND-BLACK

ALL COLORS SHALL BE TYPE IX RETROREFLECTIVE WITH THE EXCEPTION OF BROWN WHICH SHALL BE TYPE IV RETROREFLECTIVE AND BLACK WHICH SHALL BE OPAQUE.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
2	7-2018	REVISED BROWN COLOR TO TYPE IV.	TR-GS_03
1	6-2018	NEW SHEET ISSUED	TR-GS_03

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: 10/19/2018

DESIGNER/DRAFTER: **A. MERMELSTEIN**
CHECKED BY: **B. SCHILLING**
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_TRAFFIC_GS.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

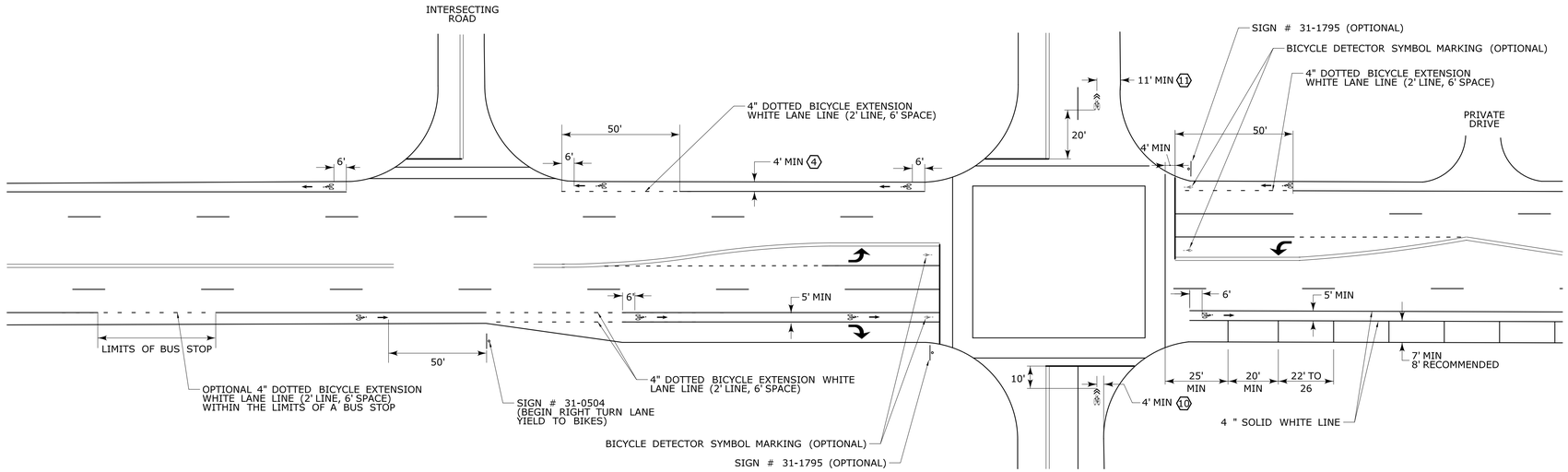
PROJECT TITLE:
JEFFERSON AVE. AT CHESTER STREET
ROUNDABOUT & ROADWAY
IMPROVEMENTS

TOWN: NEW LONDON

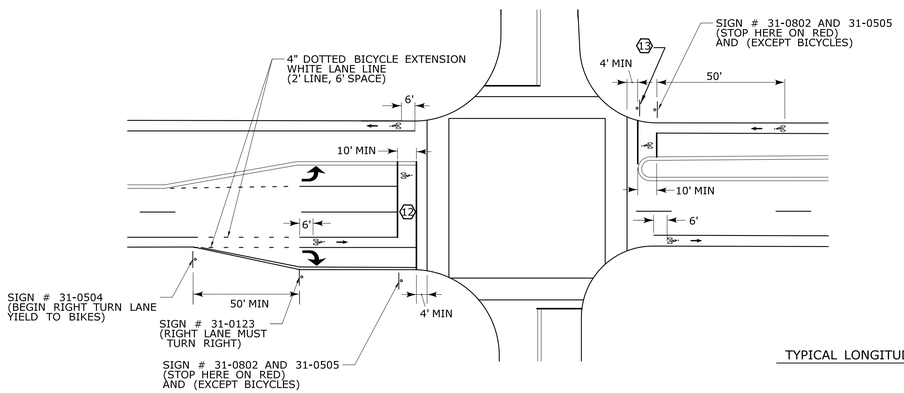
DRAWING TITLE:
SIGN FACE SHEET ALUMINUM (Z)
D,RS,E,I,&M SERIES TYPICAL SIGN DETAILS

PROJECT NO. L094-0002
DRAWING NO. **TR-GS_03**
SHEET NO.

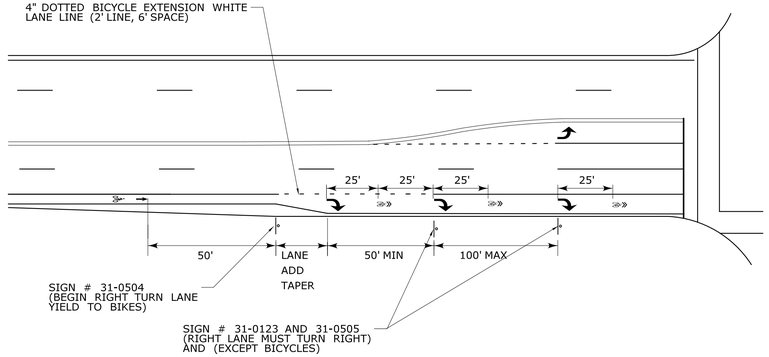
TYPICAL BICYCLE LANE AND SHARROW MARKING DETAIL



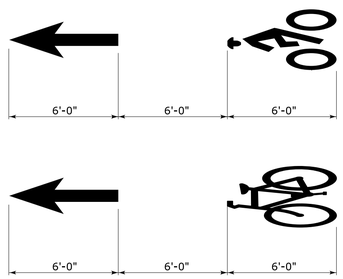
TYPICAL BICYCLE BOX DETAIL



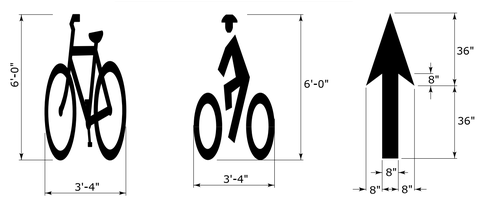
TYPICAL SHARED BICYCLE LANE AND TURN LANE DETAIL



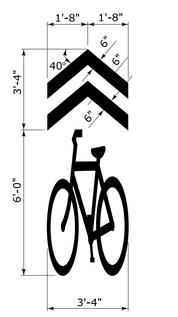
TYPICAL LONGITUDINAL SPACING



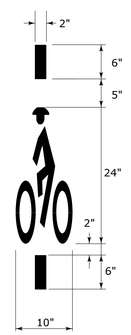
BICYCLE LANE SYMBOL MARKINGS



SHARED LANE SYMBOL MARKING



BICYCLE DETECTOR SYMBOL MARKING



NOTES:

1. BICYCLE PAVEMENT MARKINGS AND GREEN PAVEMENT TO BE OWNED AND MAINTAINED BY THE MUNICIPALITY.
2. MUNICIPALITY MUST OBTAIN FHWA INTERIM APPROVAL FOR BICYCLE BOX INSTALLATION AND COMPLY WITH THE REQUIREMENTS OF FHWA INTERIM APPROVAL No. IA-18, OPTIONAL USE OF AN INTERSECTION BICYCLE BOX. BICYCLE BOX USE IS LIMITED TO SIGNALIZED INTERSECTIONS.
3. MUNICIPALITY MUST OBTAIN FHWA INTERIM APPROVAL FOR GREEN PAVEMENT INSTALLATION AND COMPLY WITH THE REQUIREMENTS OF FHWA INTERIM APPROVAL No. IA-14, OPTIONAL USE OF GREEN COLORED PAVEMENT FOR BIKE LANES AND FHWA INTERPRETATION LETTER 9(09)-86(I), CHROMATICITY REQUIREMENTS FOR GREEN-COLORED PAVEMENT. GREEN COLORED PAVEMENT MAY BE INSTALLED ONLY WITHIN A BICYCLE LANE OR WITHIN AN EXTENSION OF A BICYCLE LANE.

(4) 5 FEET WIDE BICYCLE LANES SHOULD BE USED IF IMMEDIATELY ADJACENT TO A CURB, GUIDE RAIL, OR OTHER VERTICAL SURFACES.

5. MARKINGS USED ON BIKEWAYS SHALL BE RETROREFLECTORIZED.
6. BICYCLE LANES MARKINGS SHOULD BE SPACED AT INTERVALS NO GREATER THAN 500 FT.
7. IF USED, SHARED LANE MARKINGS SHOULD BE SPACED AT INTERVALS NO GREATER THAN 250 FT.
8. SHARED LANE MARKINGS SHOULD NOT BE PLACED ON ROADWAYS THAT HAVE A SPEED LIMIT ABOVE 35 MPH.
9. BICYCLE DETECTOR SYMBOL MARKINGS MAY BE PLACED ON THE PAVEMENT INDICATING THE OPTIMUM POSITION FOR A BICYCLIST TO ACTUATE THE SIGNAL. THE LOCATION OF THE MARKINGS SHALL BE SPECIFIED ON THE SIGNAL PLAN. THE MARKINGS MAY BE SUPPLEMENTED BY SIDE MOUNTED SIGN # 31-1795.

(10) ON STREETS WITHOUT ON-STREET PARKING AND WITH OUTSIDE TRAVEL LANES LESS THAN 14 FEET WIDE, THE CENTERS OF THE SHARED LANE MARKINGS SHOULD BE AT LEAST 4 FEET FROM THE FACE OF THE CURB, OR FROM THE EDGE OF THE PAVEMENT WHERE THERE IS NO CURB.

(11) ON STREETS WITH ON-STREET PARKING THE CENTERS OF THE SHARED LANE MARKINGS SHOULD BE AT LEAST 11 FEET FROM THE FACE OF THE CURB, OR FROM THE EDGE OF THE PAVEMENT WHERE THERE IS NO CURB.

(12) COUNTDOWN PEDESTRIAN SIGNAL HEADS ARE REQUIRED FOR BICYCLE BOXES LOCATED ACROSS MULTILANE APPROACHES.

(13) TURNS ON RED SHALL BE PROHIBITED FROM THE APPROACH WHERE A BICYCLE BOX IS PLACED USING A NO TURN ON RED (R10-11 SERIES) SIGN.

14. AREA OF PAVEMENT MARKING SYMBOLS AS INDICATED IS APPROXIMATE.
15. REFER TO STANDARD SHEET TR-1210_04 FOR PAVEMENT MARKING LINE DETAILS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 3/10/2017

DESIGNER/DRAFTER: GUZZE/TANSKI

CHECKED BY: KRISTEN E. SOLLOWAY, P.E.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Bike Lane\BF-GS_01.dgn

SIGNATURE/ BLOCK:

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

PROJECT TITLE:
JEFFERSON AVE. AT CHESTER STREET
ROUNDABOUT & ROADWAY
IMPROVEMENTS

TOWN: NEW LONDON

PROJECT NO. L094-0002

DRAWING NO. BF-GS_01

DRAWING TITLE:
BICYCLE FACILITIES TYPICAL DETAILS

SHEET NO.

*ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #

**REVISED OR ADDED

✓*	SHEET NO.	TITLE	APPROVAL DATE**
☐	HW-506_01	ENDWALLS, SLOPE PAVED INLETS AND OUTLETS	1-26-12
☐	HW-506_02	TYPE "D-G" & "L" ENDWALLS	7-13-12
☐	HW-506_03	ENDWALLS FOR PIPE ARCH	9-18-09
☑	HW-507_01	TYPE "C", "C-L" & DROP INLET CATCH BASIN	7-24-13
☑	HW-507_02	TYPE "C", "C-L" & DOUBLE GRATE TYPE - I	7-24-13
☑	HW-507_03	TYPE "C", "C-L" & DOUBLE GRATE TYPE - II	7-24-13
☐	HW-507_04	TYPE "C", "C-L" & ROUND PRECAST CONCRETE CB	11-10-11
☐	HW-507_05	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - I	11-10-11
☐	HW-507_06	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - II	11-10-11
☑	HW-507_07	TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS	11-10-11
☑	HW-507_08	CATCH BASIN FRAMES AND GRATES	9-18-09
☐	HW-507_09	HEAVY DUTY LOCK DOWN TOPS	7-12-12
☑	HW-507_10	MANHOLE - FRAME & COVER	7-24-13
☑	HW-651_01	C.C.M. PIPE INSTALLATIONS IN FILL & ROCK SLOPES & PIPE TRENCH DETAIL	7-24-13
☐	HW-651_02	SLOTTED DRAIN PIPE 12"- 15"-18"-24"-30" (305-381-457-610-762)	7-12-12
☐	HW-652_01	PIPE ENDS	7-24-13
☐	HW-751_01	UNDERDRAINS AND UNDERDRAIN OUTLETS	7-12-12
☐	HW-803_01a	PAVED APRONS	6-07-17
☐	HW-803_01b	PAVED DITCHES AND PAVED CHANNELS	6-07-17
☑	HW-811_01	CONCRETE CURBING	6-07-17
☐	HW-813_01	GRANITE STONE TRANSITION CURBING	7-24-13
☑	HW-813_02	STONE CURBING	6-07-17
☑	HW-815_01	BITUMINOUS CONCRETE CURBING	6-07-17
☐	HW-821_01a	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12
☐	HW-821_01b	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
☐	HW-821_01c	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	1-26-12
☐	HW-821_02a	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 1	7-24-13
☐	HW-821_02b	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2	7-24-13
☐	HW-821_03a	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12
☐	HW-821_03b	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
☐	HW-821_03c	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	10-18-10
☐	HW-821_03d	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	10-18-10
☐	HW-821_03e	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) F-SHAPE	7-24-13

✓*	SHEET NO.	TITLE	APPROVAL DATE**
☐	HW-821_04a	MERRITT PARKWAY NARROW MEDIAN BARRIER	6-09-11
☐	HW-821_04b	MERRITT PARKWAY - 2'(610) WIDE MEDIAN BARRIER AND ROADSIDE BARRIER	7-24-13
☐	HW-821_05a	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 1	1-26-12
☐	HW-821_05b	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 2	1-26-12
☐	HW-821_06	54" (1372) VERTICAL SHAPE BARRIER	2-06-12
☐	HW-821_07	MISCELLANOUS DETAILS FOR BARRIER TRANSITIONS	7-12-12
☑	HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB	7-24-13
☐	HW-905_01	STONE WALL FENCE	1-25-19
☐	HW-906_01	WIRE FENCE	1-25-19
☐	HW-910_01	W-BEAM METAL BEAM RAIL HARDWARE	6-09-11
☐	HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL	6-09-11
☐	HW-910_03	METAL BEAM RAIL (TYPE MD-B 350)	6-09-11
☐	HW-910_04	METAL BEAM RAIL (TYPE R-B 350) SYSTEMS 5, 5A, & 6	6-09-11
☐	HW-910_05	METAL BEAM RAIL R-B 350 SPAN TYPE I, II, III SECTIONS	7-24-13
☐	HW-910_06	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	6-09-11
☐	HW-910_07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET	1-25-19
☐	HW-910_08	R-B 350 BRIDGE ATTACHMENT TRAILING END	6-09-11
☐	HW-910_09a	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 1	1-26-12
☐	HW-910_09b	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 2	7-25-12
☐	HW-910_10	METAL BEAM RAIL 8" (203) X 6" (152) BOX BEAM	7-24-13
☐	HW-910_11	CURVED GUIDERAIL TREATMENT DETAIL	7-25-12
☐	HW-910_12a	MERRITT PARKWAY GUIDERAIL ATTACHMENT - SYSTEM 2 & 3	7-24-13
☐	HW-910_12b	MERRITT PARKWAY GUIDERAIL	7-24-13
☐	HW-910_12c	MERRITT PARKWAY GUIDERAIL TRAILING END ATTACHMENTS	7-24-13
☐	HW-910_12d	MERRITT PARKWAY MEDIAN GUIDERAIL AND END ANCHOR	6-09-11
☐	HW-910_13a	THRIE-BEAM METAL BEAM RAIL HARDWARE	7-24-13
☐	HW-910_13b	THRIE-BEAM TRANSITIONS	7-24-13
☐	HW-910_14a	THRIE-BEAM 350 BRIDGE ATTACHMENT	6-09-11
☐	HW-910_14b	THRIE-BEAM 350 GUIDERAIL TRANSITION TO R-B 350 GUIDERAIL	6-09-11
☐	HW-910_15	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE I	6-09-11
☐	HW-910_16	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE II	6-09-11
☐	HW-910_17	R-B TERMINAL SECTION	7-24-13
☐	HW-910_18	METAL BEAM RAIL (TYPE MD-I)	10-18-10

REV.	DATE	REVISION DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
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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: 1/23/2019

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD_[_1-23-19_].dgn Model: 1 - HW-INX_1

CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

HIGHWAY
STANDARD SHEET INDEX

STANDARD SHEET NO.:

HW_INX

*ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #

**REVISED OR ADDED

✓*	SHEET NO.	TITLE	APPROVAL DATE**
☐	HW-910_19a	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE I	7-24-13
☐	HW-910_19b	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE II	7-24-13
☐	HW-910_19c	METAL BEAM RAIL (MODIFIED TYPE R-I) SYSTEMS 2 AND 3	7-24-13
☐	HW-910_20	MASH W-BEAM HARDWARE	1-05-18
☐	HW-910_21	METAL BEAM RAIL (R-B MASH) GUIDERAIL	1-25-19
☐	HW-910_22	METAL BEAM RAIL (MD-B MASH) GUIDERAIL	1-05-18
☐	HW-910_23	METAL BEAM RAIL (R-B MASH) HALF AND QUARTER POST SPACING	1-05-18
☐	HW-910_24	METAL BEAM RAIL SPAN SECTION TYPES II AND III	1-05-18
☐	HW-910_25	METAL BEAM RAIL TRANSITION 350 TO MASH	1-05-18
☐	HW-911_01	R-B END ANCHORAGE TYPE I AND II	1-25-19
☐	HW-911_02	MD-B END ANCHORAGE TYPE I	1-05-18
☐	HW-911_03	ANCHOR IN EARTH CUT SLOPE & ANCHOR IN ROCK CUT SLOPE	10-18-10
☐	HW-911_05	MERRITT PARKWAY GUIDERAIL END ANCHORS	7-24-13
☐	HW-913_01a	CHAIN LINK FENCE	5-06-19
☐	HW-913_01b	CHAIN LINK FENCE HARDWARE	5-06-19
☐	HW-913_02	CHAIN LINK FENCE GATES	5-06-19
☐	HW-918_01a	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 1	7-24-13
☐	HW-918_01b	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 2	1-26-12
☐	HW-918_01c	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 3	7-24-13
☑	HW-921_01	DRIVEWAY RAMPS AND SIDEWALKS	6-07-17
☐	HW-949_01a	LANDSCAPE PLANTING	6-15-19
☐	HW-949_01b	TREE STAKING	6-15-19
☐	HW-1800_01	GRADING PLAN FOR IMPACT ATTENUATION SYSTEMS (FLARED AND TANGENTIAL)	1-25-19
☐	HW-1800_02	GRADING PLAN FOR IMPACT ATTENUATION SYSTEM (MEDIAN/GORE)	1-25-19

✓*	SHEET NO.	TITLE	APPROVAL DATE**

REV.	DATE	REVISION DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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: 6/20/2019

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD [5-28-19].dgn Model: 2 - HW-INX_2

CTDOT
STANDARD SHEET

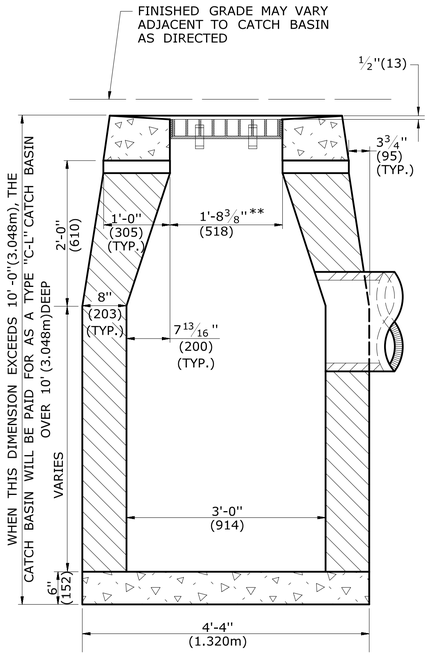
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

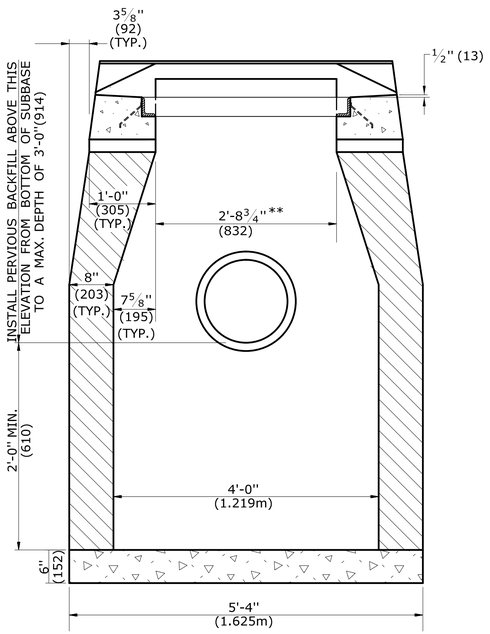
HIGHWAY
STANDARD SHEET INDEX

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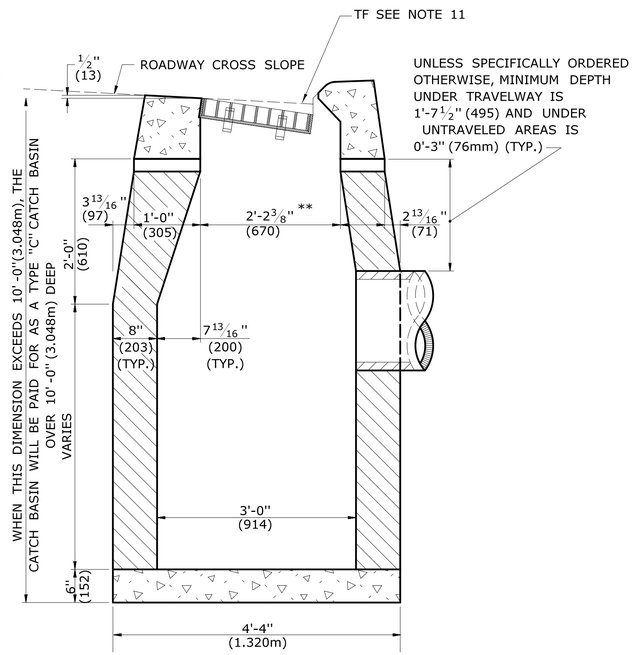
HW_INX
2 of 2



TYPE "C-L" CATCH BASIN



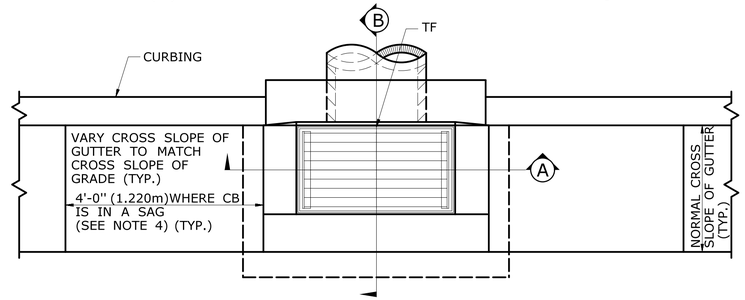
TYPE "C" & "C-L" CATCH BASIN (TYPE "C" TOP SHOWN)



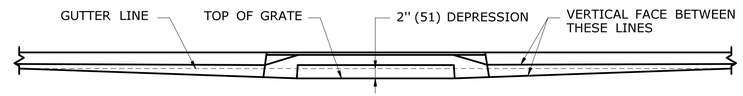
TYPE "C" CATCH BASIN

GENERAL NOTES:

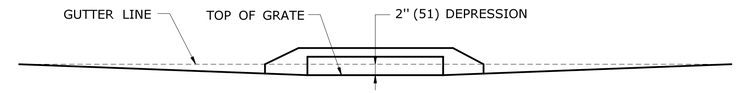
1. FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507_08.
2. USE APPROPRIATE CONCRETE TOP FOR CURBING SHOWN ON PLANS. IF CURBING IS NOT SPECIFIED ON THE PLANS, IT SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER.
3. ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL. THE COST FOR THE PAPER SHALL BE INCLUDED IN THE BID PRICE FOR THE TYPE OF CATCH BASIN INSTALLED.
4. USE 6'-0" (1.830m) ON UPGRADE SIDE OF CONTINUOUS GRADE AND 1'-0" (305mm) ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED.
5. IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE OVER ALL DIMENSIONS SHOWN HERE AND SECTION 5.07 OF THE STATE OF CONNECTICUT'S STANDARD SPECIFICATIONS. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3" (75mm.) NO PROJECTION SHALL EXTEND INSIDE THE LIMITS NOTED BY **.
6. WALL THICKNESS OF ALL CB'S OVER 10'(3.048m) DEEP SHALL BE INCREASED TO 12" (305mm) THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. 12" (305mm) THICKNESS WILL START AFTER THE FIRST 10'(3.048m).
7. TO CONVEY SUBSURFACE DRAINAGE, OPENINGS SHALL BE FORMED IN THE FOUR WALLS AT OR IMMEDIATELY ABOVE THE BOTTOM OF THE PERVIOUS BACKFILL.
8. MINIMUM CONCRETE COMPRESSIVE STRENGTH OF F'c = 4000 PSI (27,580 kPa) SHALL BE OBTAINED PRIOR TO SHIPPING.
9. LATEST STATE OF CONNECTICUT'S STANDARD SPECIFICATIONS AND SUPPLEMENTALS SHALL GOVERN.
10. SPACER MAY BE CMU OR PRECAST WITH REQUIRED REINFORCING (RECOMMENDED BY THE MANUFACTURER) AS NEEDED TO PROVIDE PROPER GRADE SHOWN ON PLANS.
11. TOP OF FRAME (TF) ELEVATION SHALL BE MEASURED IN THE CENTER OF GRATE @ GUTTER LINE.



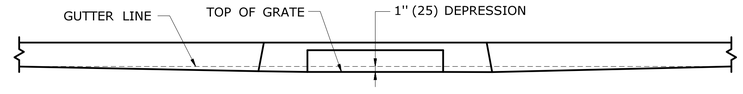
PLAN



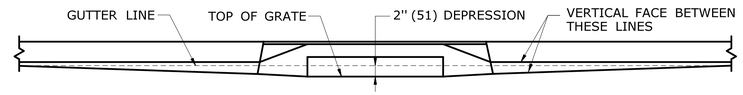
FOR CATCH BASINS IN A LINE OF 4" (102) CONCRETE PARK CURBING OR 4" (102) BITUMINOUS CONCRETE PARK CURBING



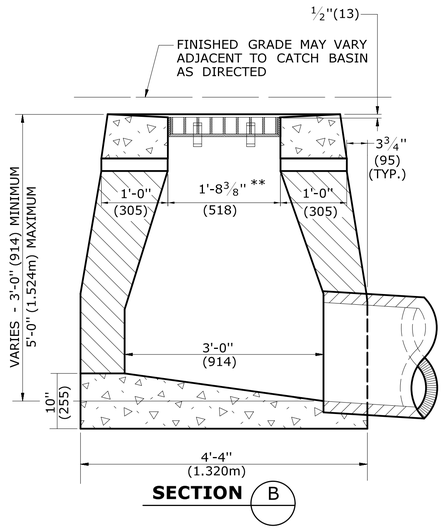
FOR CATCH BASINS WHERE NO CURBING OF ANY TYPE EXISTS OR IS PROPOSED



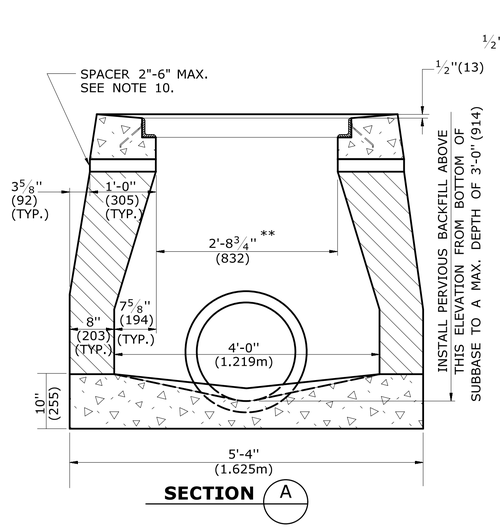
FOR CATCH BASINS IN A LINE OF 6" (152) CONCRETE CURBING OR 6" (152) STONE CURBING



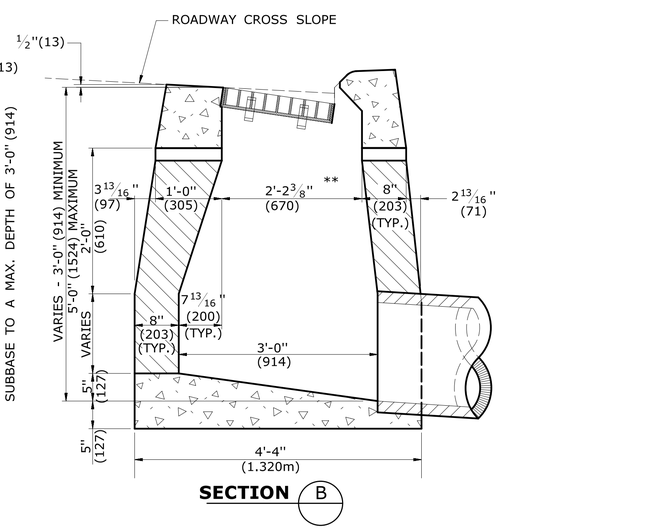
FOR CATCH BASINS IN A LINE OF 6" (152) BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)



TYPE "C-L" DROP INLET



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



TYPE "C" DROP INLET

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

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

REV.	DATE	REVISION DESCRIPTION	
4	7/13	ADD NOTE 11	-
3	9/30/11	ADD SPACERS AND NOTE 10.	-
2	9/15/11	MODIFIED DETAILS TO BE CONSISTANT WITH PRECAST	-
1	7/28/11	REMOVE MIN. DROP NOTE	-
-	-	-	-
-	-	-	-

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Plotted Date: 6/10/2013

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD2013.dgn Model: 6-HW-507_01

SUBMITTED BY: NAME/DATE/TIME:
Digitally signed by Leo L. Fontaine Date: 2013.07.24 11:02:42-04'00'

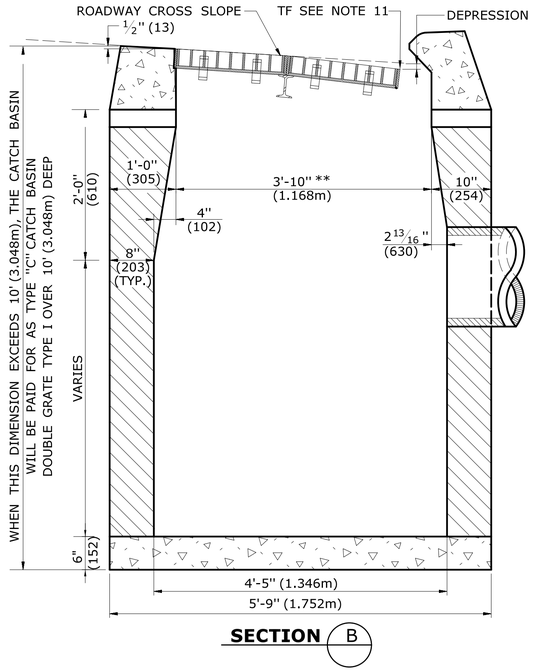
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CTDOT STANDARD SHEET

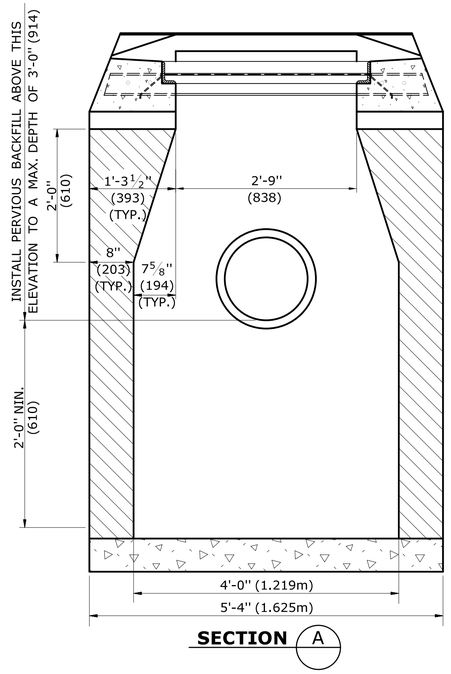
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
TYPE "C", "C-L" & DROP INLET CATCH BASIN

STANDARD SHEET NO.:
HW-507_01



SECTION B

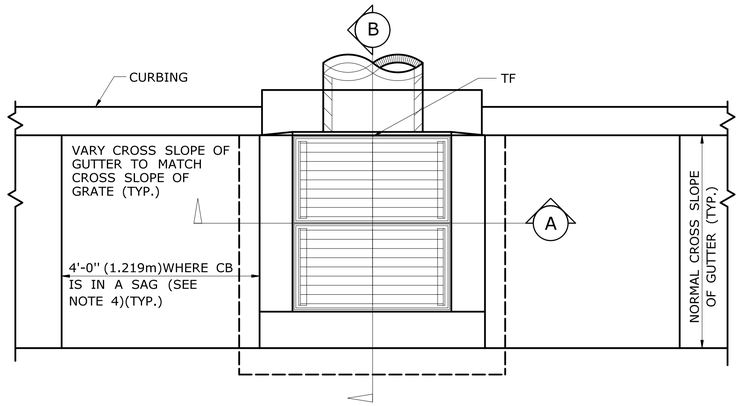


SECTION A

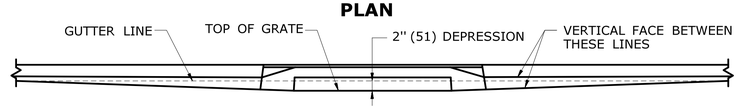
TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I

GENERAL NOTES:

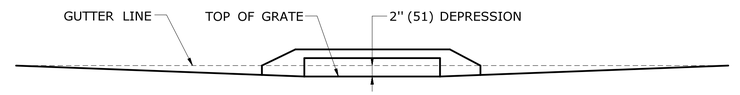
1. FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507_08.
2. USE APPROPRIATE CONCRETE TOP FOR CURBING SHOWN ON PLANS. IF CURBING IS NOT SPECIFIED ON THE PLANS, IT SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER.
3. ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL. THE COST FOR THE PAPER SHALL BE INCLUDED IN THE BID PRICE FOR THE TYPE OF CATCH BASIN INSTALLED.
4. USE 6'-0" (1.830m) ON UPGRADE SIDE OF CONTINUOUS GRADE AND 1'-0" (305) ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED.
5. IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE OVER ALL DIMENSIONS SHOWN HERE AND SECTION 5.07 OF THE STATE OF CONNECTICUT'S STANDARD SPECIFICATIONS. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3" (75mm) . NO PROJECTION SHALL EXTEND INSIDE THE LIMITS NOTED BY **.
6. WALL THICKNESS OF ALL CB'S OVER 10' (3.048m) DEEP SHALL BE INCREASED TO 12" (305mm) THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. (12" (305) THICKNESS WILL START AFTER THE FIRST 10' (3.048m)).
7. TO CONVEY SUBSURFACE DRAINAGE, OPENINGS SHALL BE FORMED IN THE FOUR WALLS AT OR IMMEDIATELY ABOVE THE BOTTOM OF THE PERVIOUS BACKFILL.
8. MINIMUM CONCRETE COMPRESSIVE STRENGTH OF F'c = 4000 PSI (27,580 kPa) SHALL BE OBTAINED PRIOR TO SHIPPING.
9. LATEST STATE OF CONNECTICUT'S STANDARD SPECIFICATIONS AND SUPPLEMENTALS SHALL GOVERN.
10. SPACER MAY BE CMU OR PRECAST WITH REQUIRED REINFORCING (RECOMMENDED BY MANUFACTURER) AS NEEDED TO PROVIDE PROPER GRADE SHOWN ON PLANS.
11. TOP OF FRAME (FL) ELEVATION SHALL BE MEASURED IN THE CENTER OF THE GRATE @ GUTTER LINE.



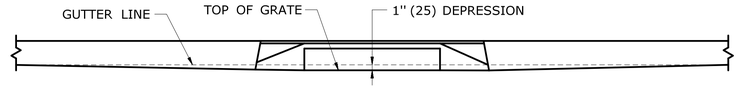
PLAN



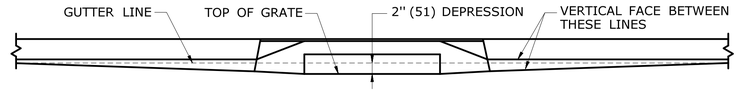
FOR CATCH BASINS IN A LINE OF 4" (102) (CONCRETE PARK CURBING OR 4" (102) BITUMINOUS CONCRETE PARK CURBING



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

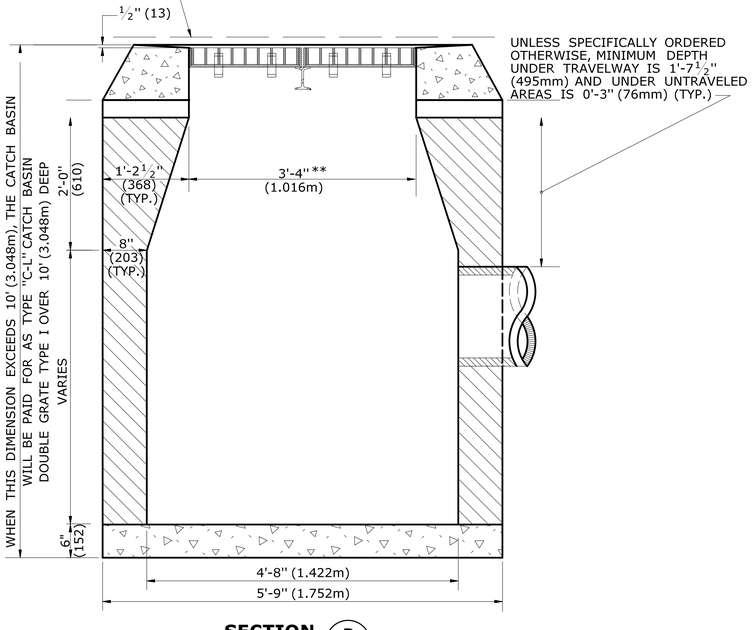


FOR CATCH BASINS IN A LINE OF 6"(152) CONCRETE CURBING OR 6"(152) STONE CURBING

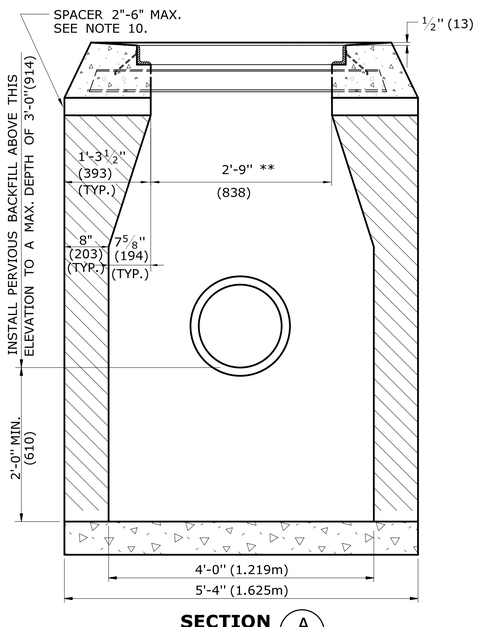


FOR CATCH BASINS IN A LINE OF 6" (152) BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)

FINISHED GRADE MAY VARY ADJACENT TO CATCH BASIN AS DIRECTED



SECTION B



SECTION A

TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE I

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

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

REV.	DATE	REVISION DESCRIPTION
-	-	-
-	-	-
4	7/13	ADD NOTE 11
3	9/30/11	ADD SPACERS AND NOTE 10.
2	9/15/11	MODIFIED DETAILS TO BE CONSISTANT WITH PRECAST
1	7/28/11	REMOVE MIN. DROP NOTE

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Plotted Date: 3/21/2013

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: June2013.dgn Model: HW-507_02

SUBMITTED BY: NAME/DATE/TIME:
Digitally signed by Leo L. Fontaine Date: 2013.07.24 11:02:28-04'00'

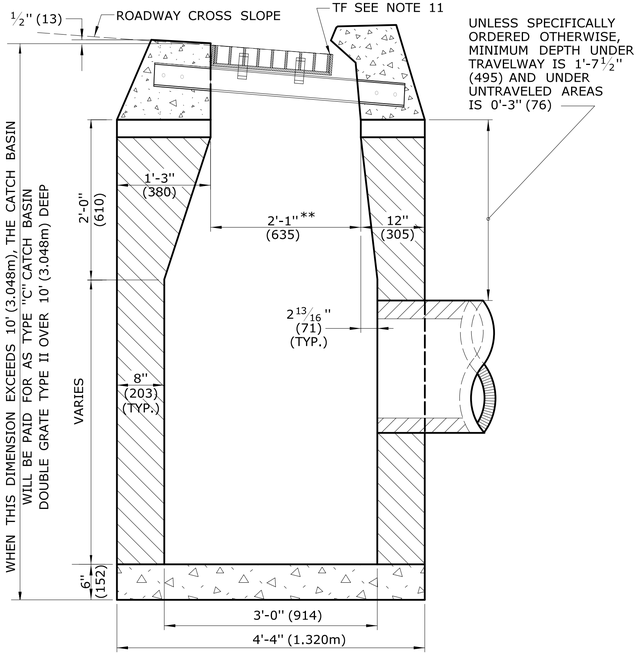
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CTDOT STANDARD SHEET

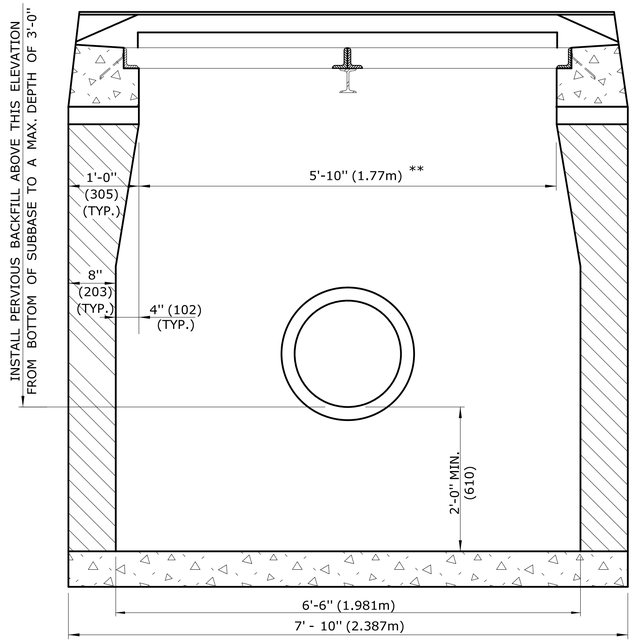
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
TYPE "C" , "C-L" & DOUBLE GRATE TYPE - I

STANDARD SHEET NO.:
HW-507_02

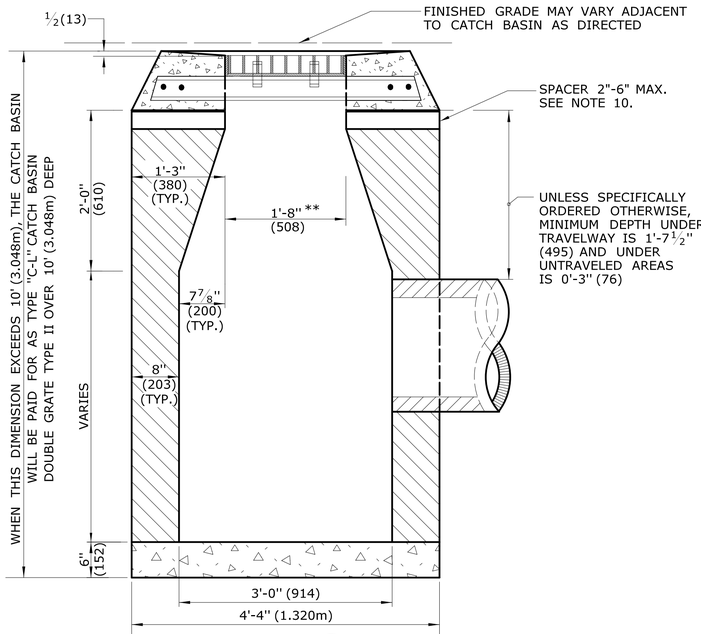


SECTION B

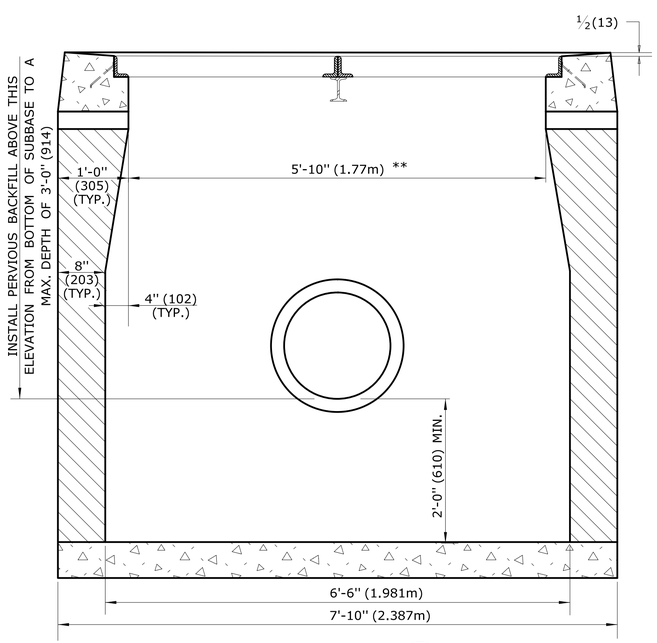


SECTION A

TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II



SECTION B

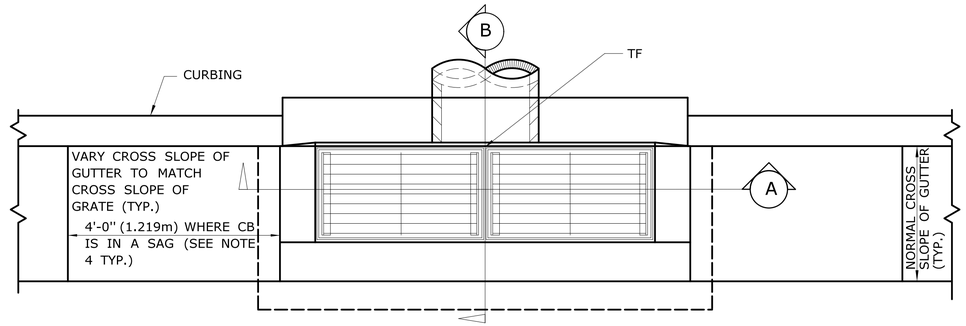


SECTION A

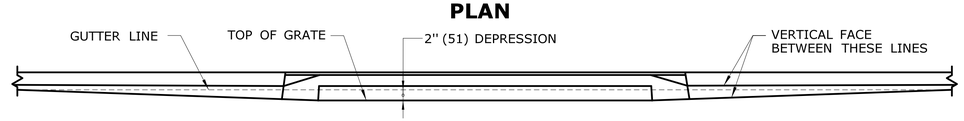
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II

GENERAL NOTES:

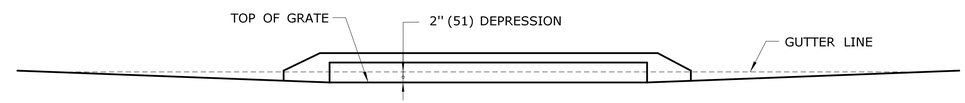
1. FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507_08.
2. USE APPROPRIATE CONCRETE TOP FOR CURBING SHOWN ON PLANS. IF CURBING IS NOT SPECIFIED ON THE PLANS, IT SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER.
3. ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL. THE COST FOR THE PAPER SHALL BE INCLUDED IN THE BID PRICE FOR THE TYPE OF CATCH BASIN INSTALLED.
4. USE 6'-0" (1.830m) ON UPGRADE SIDE OF CONTINUOUS GRADE AND 1'-0" (305) ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED.
5. IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE OVER ALL DIMENSIONS SHOWN HERE AND SECTION 5.07 OF THE STATE OF CONNECTICUT'S STANDARD SPECIFICATIONS. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3" (75). NO PROJECTION SHALL EXTEND INSIDE THE LIMITS NOTED BY **.
6. WALL THICKNESS OF ALL CB'S OVER 10' (3.048m)DEEP SHALL BE INCREASED TO 12" (305) THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. (12" (305) THICKNESS WILL START AFTER THE FIRST 10' (3.048m)).
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11. TOP OF FRAME (TF) ELEVATION SHALL BE MEASURED IN BETWEEN BOTH GRATES @ THE GUTTER.



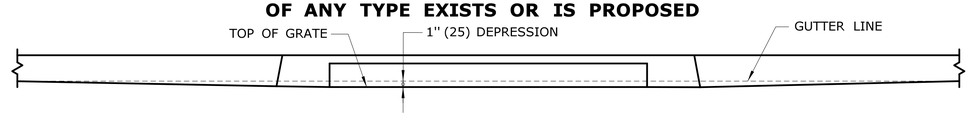
PLAN



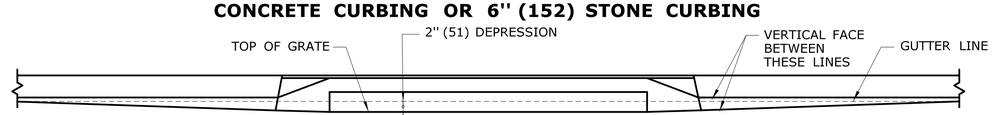
FOR CATCH BASINS IN A LINE OF 4"(102) CONCRETE PARK CURBING OR 4" (102) BITUMINOUS CONCRETE PARK CURBING



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



FOR CATCH BASINS IN A LINE OF 6" (152) CONCRETE CURBING OR 6" (152) STONE CURBING



FOR CATCH BASINS IN A LINE OF 6" (152) BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)

DETAILS OF DEPRESSED GUTTER STRIP FOR TYPE "C" CATCH BASIN DOUBLE GRATE TYPE II

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

REV.	DATE	REVISION DESCRIPTION
-	-	-
-	-	-
4	7/13	ADD NOTE 11
3	10/3/11	ADD SPACERS AND NOTE 10.
2	9/15/11	MODIFIED DETAILS TO BE CONSISTANT WITH PRECAST
1	7/28/11	REMOVE MIN. DROP NOTE

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Plotted Date: 3/21/2013

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: June2013.dgn Model: HW-507_03

SUBMITTED BY: NAME/DATE/TIME:
Digitally signed by Leo L. Fontaine Date: 2013.07.24 11:02:07-04'00'

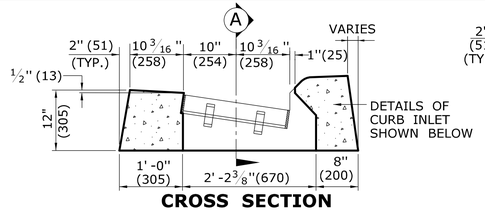
APPROVED BY: NAME/DATE/TIME:
James H. Norman 2013.07.24 14:42:32-04'00'

CTDOT STANDARD SHEET

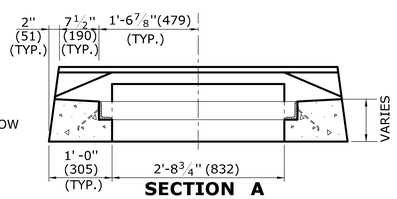
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
TYPE "C" , "C-L" & DOUBLE GRATE TYPE - II

STANDARD SHEET NO.:
HW-507_03

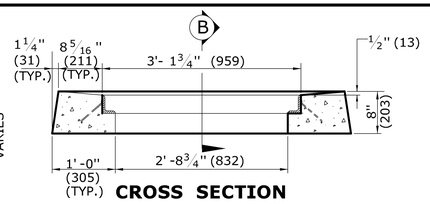


CROSS SECTION

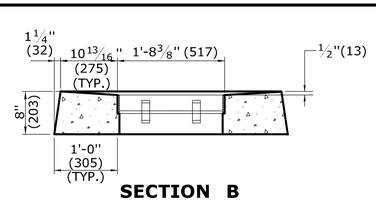


SECTION A

TYPE "C" CATCH BASIN TOP



CROSS SECTION

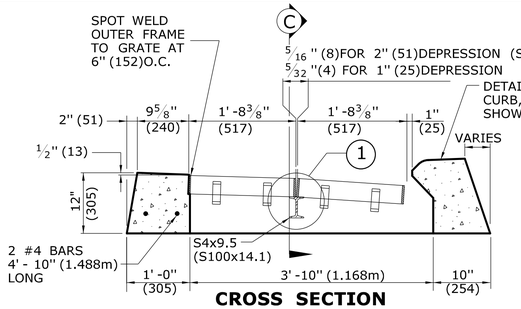


SECTION B

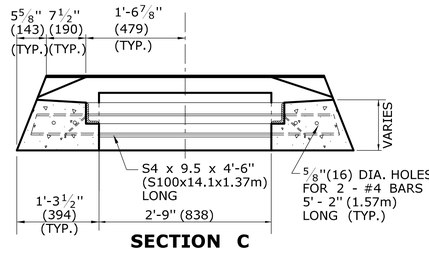
TYPE "C-L" CATCH BASIN TOP

GENERAL NOTES:

1. FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507_08.
2. ALL STEEL, EXCEPT REINFORCING BARS, SHALL BE GALVANIZED IN CONFORMANCE WITH SECTION M06.03 OF CONNECTICUT'S STANDARD SPECIFICATIONS.
3. ALL BARS SHALL HAVE A MINIMUM 2" (51) COVER.

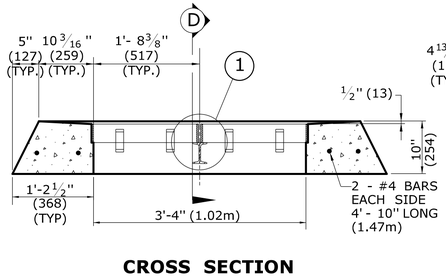


CROSS SECTION

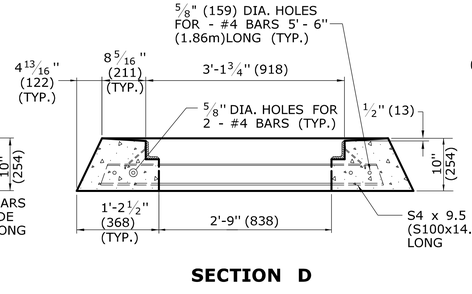


SECTION C

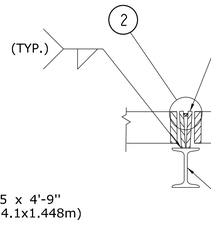
TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I TOP



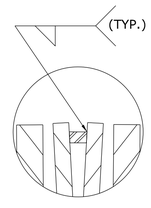
CROSS SECTION



SECTION D

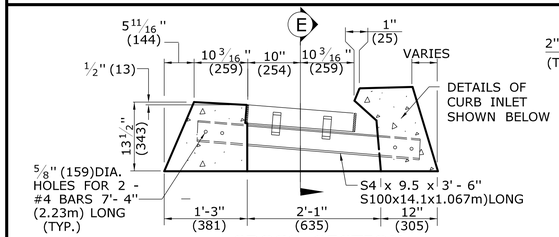


DETAIL "1"

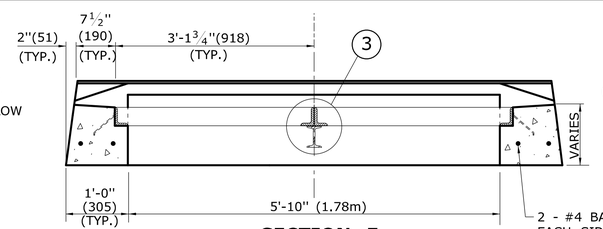


DETAIL "2"

TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE I TOP

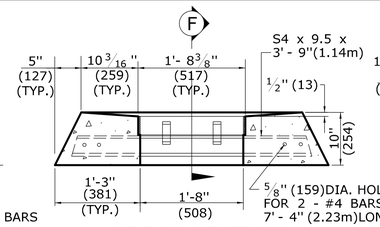


CROSS SECTION

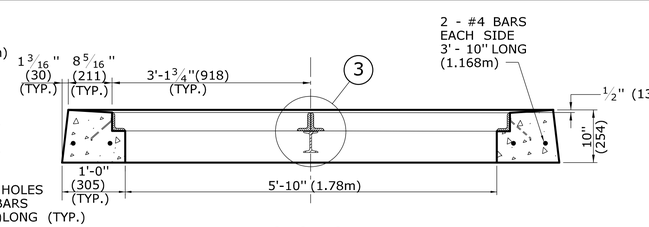


SECTION E

TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II TOP

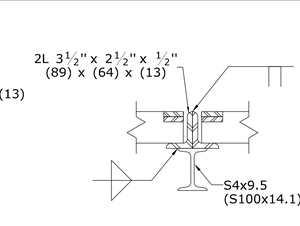


CROSS SECTION

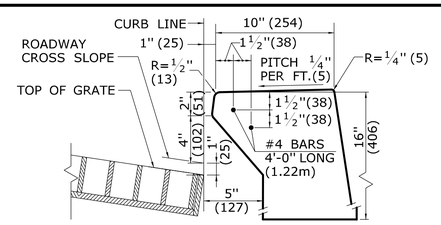


SECTION F

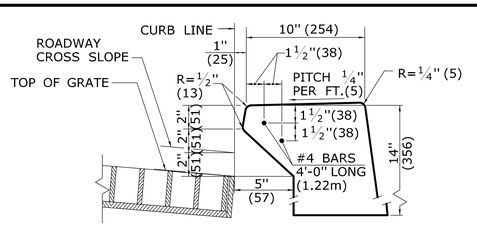
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II TOP



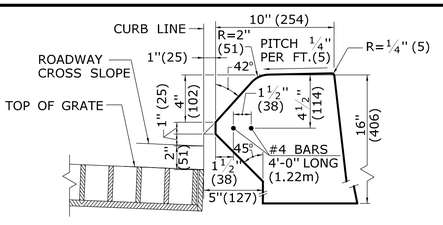
DETAIL "3"



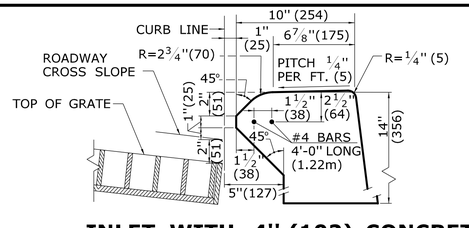
INLET WITH 6" (152) CONCRETE OR STONE CURBING FOR TYPE "C" CB



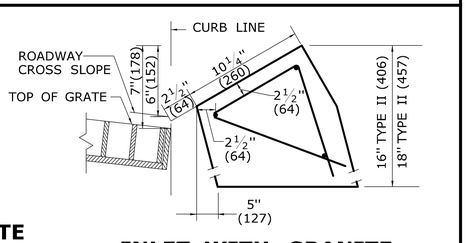
INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB



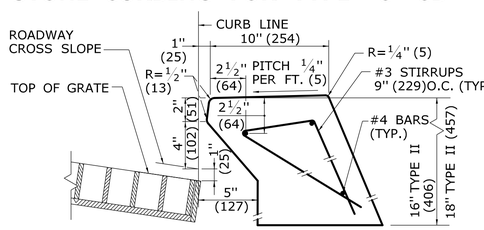
INLET WITH 6" (152) BITUMINOUS CONCRETE LIP CURBING FOR TYPE "C" CB



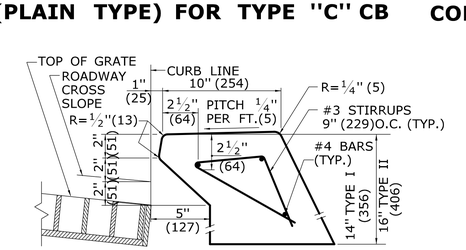
INLET WITH 4" (102) CONCRETE PARK CURBING FOR TYPE "C" CB



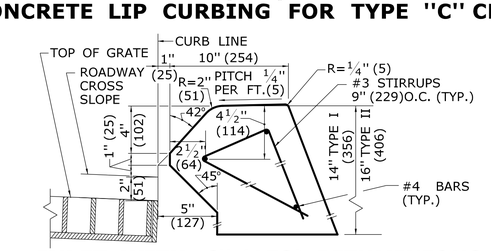
INLET WITH GRANITE SLOPE CURB FOR TYPE "C" CB



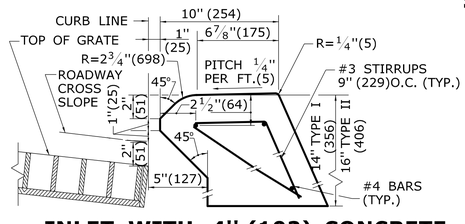
INLET WITH 6" (152) CONCRETE OR STONE CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



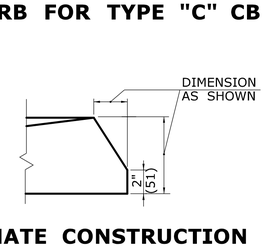
INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



INLET WITH 6" (152) BITUMINIOUS CONCRETE LIP CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



INLET WITH 4" (102) CONCRETE PARK CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



ALTERNATE CONSTRUCTION OF TYPE II TOP

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

REV.	DATE	REVISION DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
2	7/28/11	REMOVE MIN. DROP NOTE
1	6/01/10	REVISE CALL-OUT

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: 11/10/2011

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HWY_STD_Nov2011.dgn Model: 12-HW-507_07

SUBMITTED BY: NAME/DATE/TIME:
Leo Fontaine
2011.11.10 10:04:01 -05'00'

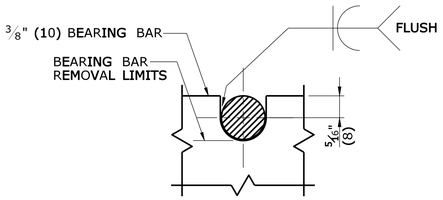
APPROVED BY: NAME/DATE/TIME:
James H. Norman
2011.11.10 10:19:36 -05'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

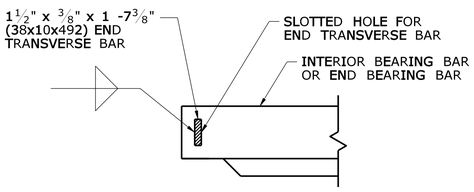
STANDARD SHEET TITLE:
TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS

STANDARD SHEET NO.:
HW-507_07

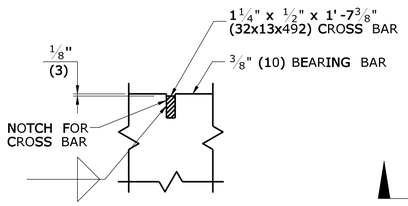


NOTE:
5/8" (16) DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

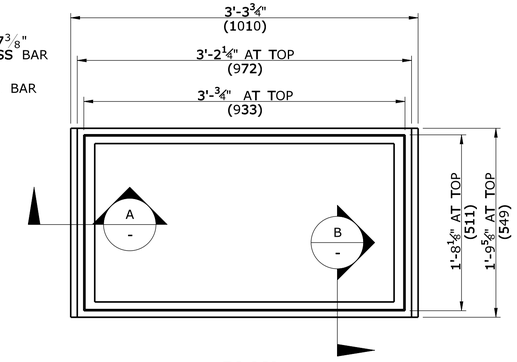
ROUND BAR ATTACHMENT
CATCH BASIN GRATE TYPE A



END TRANSVERSE BAR ATTACHMENT
CATCH BASIN GRATE TYPE A & B



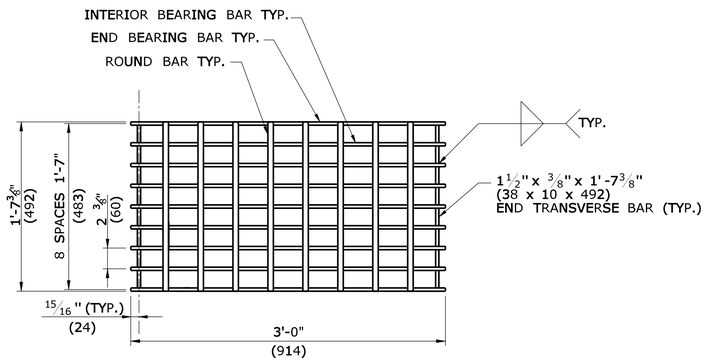
CROSS BAR ATTACHMENT
CATCH BASIN GRATE TYPE B



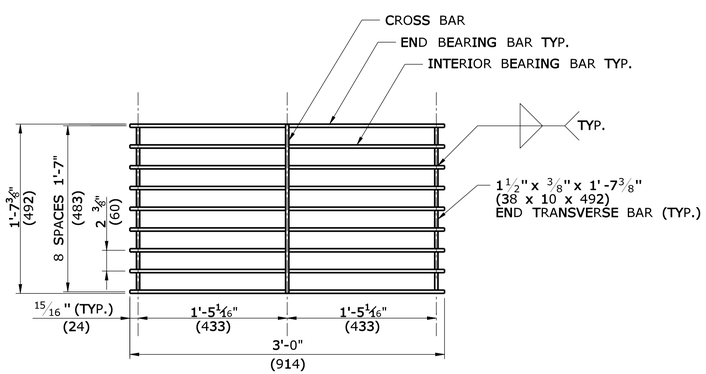
PLAN

GENERAL NOTES:

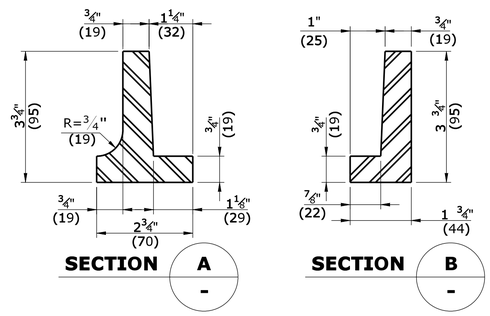
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" & "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR AS DIRECTED BY THE ENGINEER.
3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, RAMPS AND WHERE BICYCLE TRAFFIC IS NOT ALLOWED OR AS DIRECTED BY THE ENGINEER.
4. STEEL FRAMES AND GRATES SHALL BE GALVANIZED IN ACCORDANCE WITH ARTICLE M.06.03.
5. DO NOT GALVANIZE CAST IRON FRAMES.
6. DIMENSIONAL TOLERANCES SHALL BE ±1/16".(1.6)
7. ALL STEEL BARS SHALL BE WELDED AT ALL INTERSECTIONS.
8. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS STRUCTURAL WELDING CODE, D1.1.



PLAN



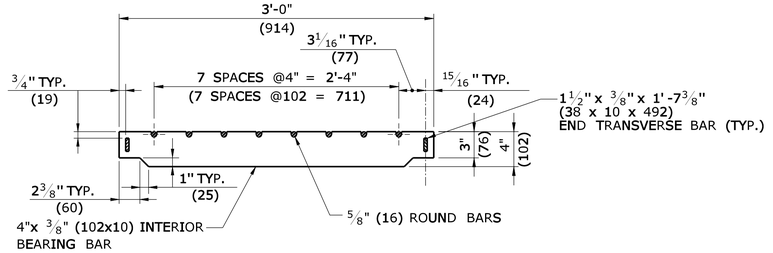
PLAN



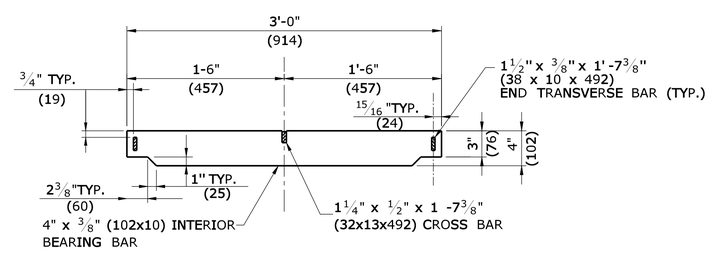
SECTION A -

SECTION B -

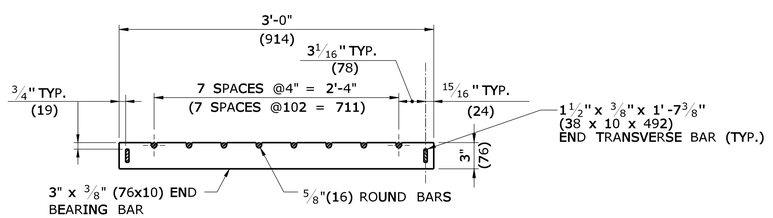
CAST IRON FRAME ALTERNATE



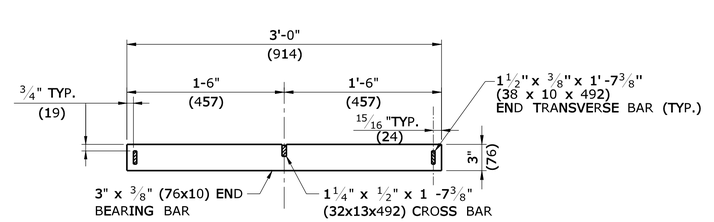
ELEVATION- INTERIOR BEARING BAR



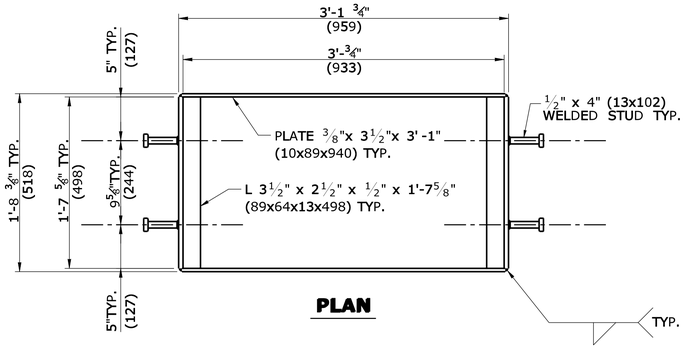
ELEVATION- INTERIOR BEARING BAR



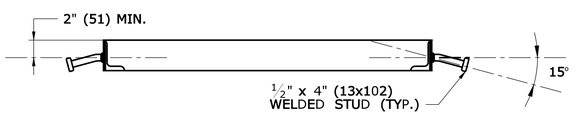
ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE A



ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE B



PLAN



WELDED STUD ANCHOR DETAILS
STEEL FRAME

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

REV.	DATE	REVISION DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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: 9/11/2009

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD.dgn Model: HW-507_08

SUBMITTED BY:	NAME/DATE/TIME:
	Timothy M. Wilson 2009.09.16 11:16:32 -04'00'
APPROVED BY:	NAME/DATE/TIME:
	James H. Norman 2009.09.18 14:22:33 -04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
CATCH BASIN FRAMES AND GRATES

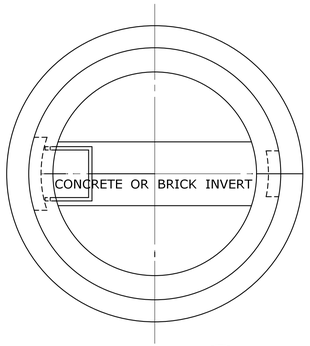
STANDARD SHEET NO.:
HW-507_08

GENERAL NOTES:

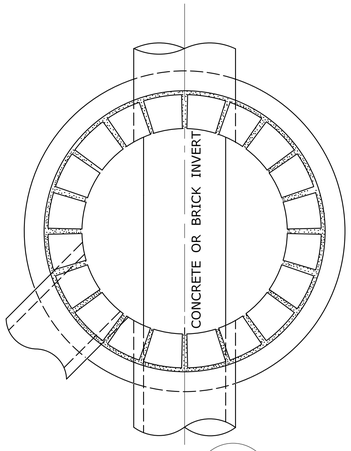
1. CHANNELS MAY BE SHAPED IN CONCRETE BASE OF MANHOLE OR FORMED USING BRICK OR MASONRY.
2. A FRAME DIAMETER OF 3'-3" (991) WITH 4" (102) FLANGE MUST BE USED WHEN THE TOP DIAMETER OF THE PRECAST CONE IS LESS THAN 3'-6" (1067). ALL OTHER FRAME DIMENSIONS SHALL REMAIN THE SAME.
3. COVER:

	CAST IRON	STEEL
MIN. COVER WEIGHT	134LB.(61kg)	134LB.(61kg)

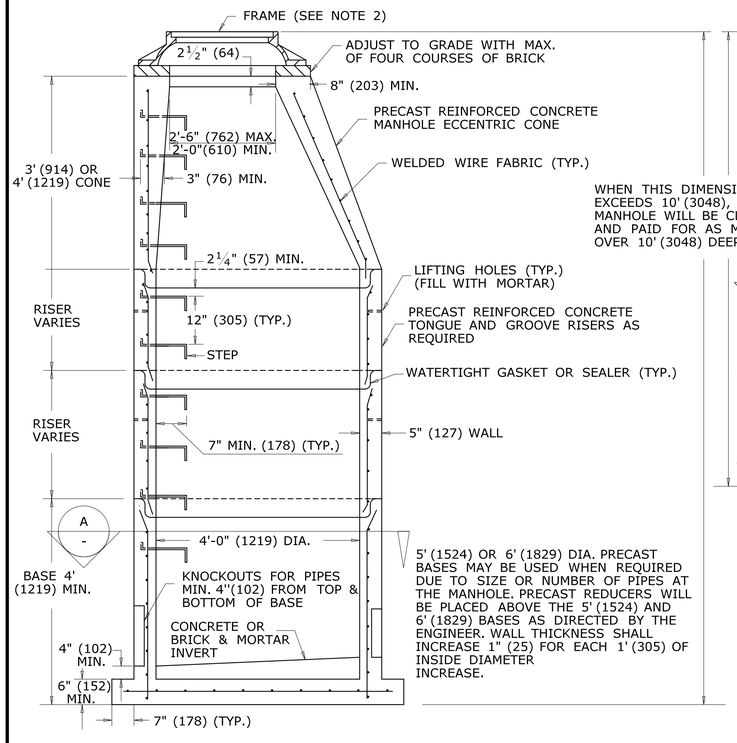
4. ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.



SECTION A -



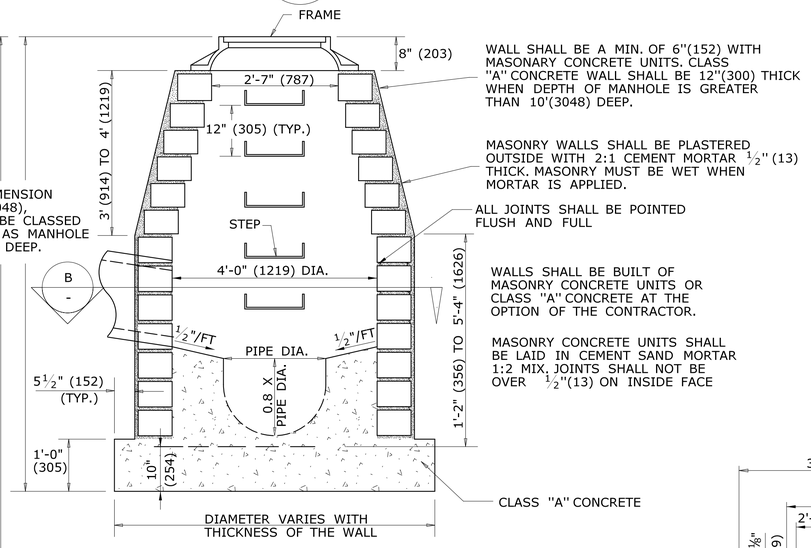
SECTION B -



ELEVATION

MANHOLE

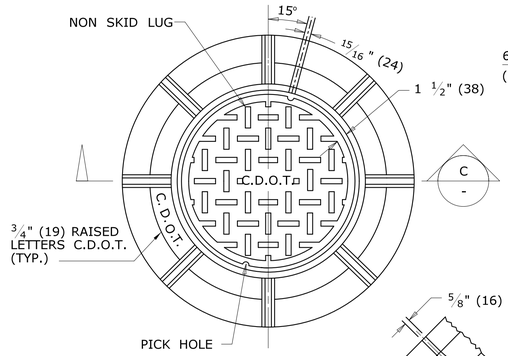
REINFORCED PRECAST CONCRETE UNIT



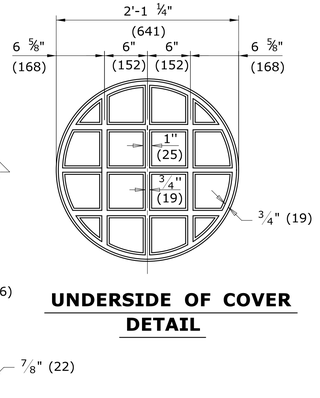
ELEVATION

MANHOLE

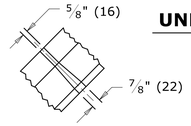
MASONARY CONCRETE UNIT OR CLASS "A" CONCRETE

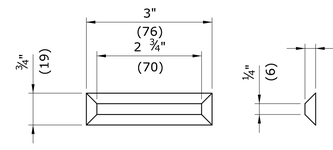


PLAN

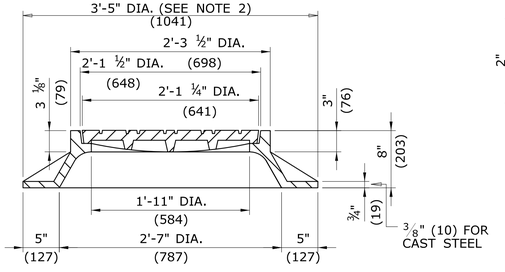


UNDERSIDE OF COVER DETAIL

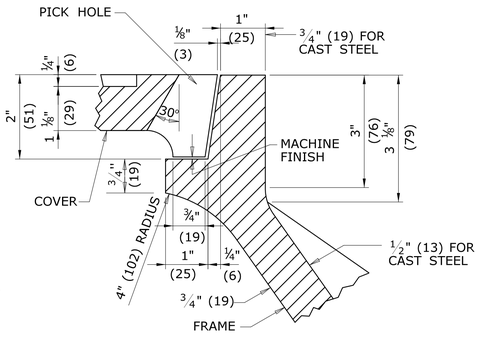




NON SKID LUG DETAIL



SECTION C -



DETAIL OF SEAT

FRAME AND COVER DETAILS

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

REV.	DATE	REVISION DESCRIPTION
1	6/11	REVISE STEP WIDTH PER OSHA
2	7/13	REVISE COVER FRAME WEIGHT
-	-	-
-	-	-
-	-	-
-	-	-

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: 6/13/2013

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD2013.dgn Model: 15-HW-507_10

SUBMITTED BY: NAME/DATE/TIME:
Digitally signed by Leo L. Fontaine
Date: 2013.07.24 11:01:54-04'00'

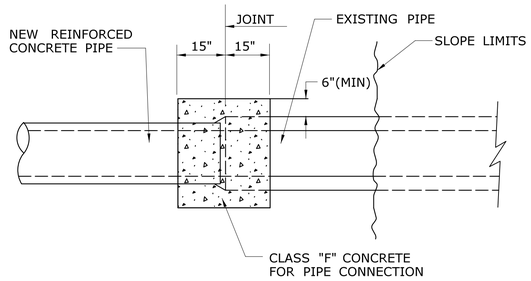
APPROVED BY: NAME/DATE/TIME:
James H. Norman
2013.07.24 14:43:21-04'00'

CTDOT STANDARD SHEET

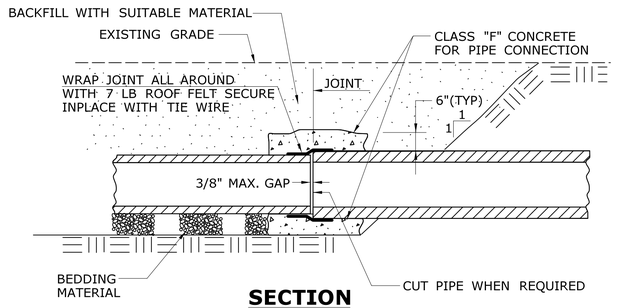
OFFICE OF ENGINEERING

STANDARD SHEET TITLE: MANHOLE - FRAME & COVER

STANDARD SHEET NO.: HW-507_10



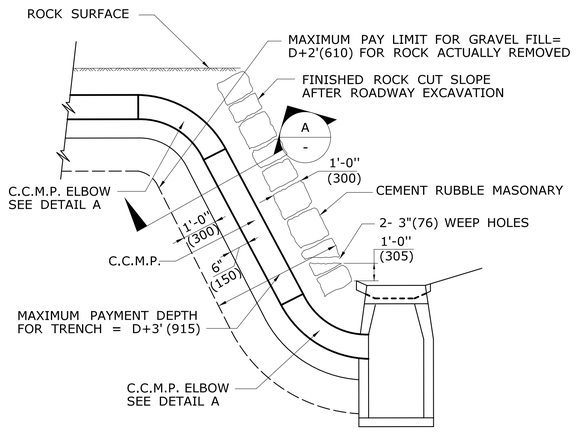
PLAN



SECTION
CONCRETE PIPE CONNECTION

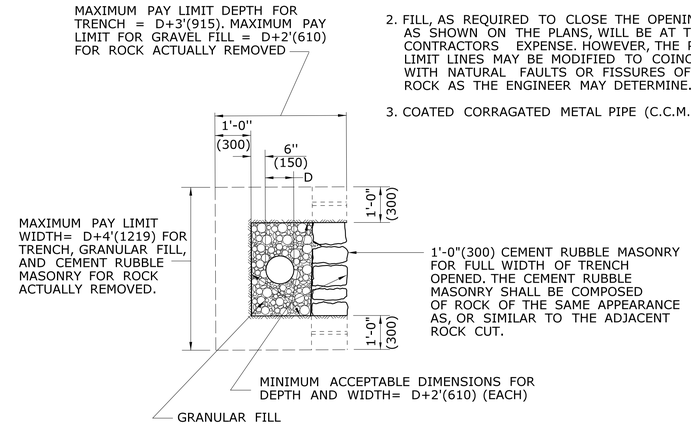
NOTES:

1. "CONCRETE PIPE CONNECTION" IS INTENDED FOR USE WHERE A REINFORCED CONCRETE PIPE REPAIR OR MODIFICATION IS NEEDED SOMEWHERE WITHIN A PIPE RUN WHERE A BELL/SPIGOT JOINT CANNOT BE ACHIEVED.
2. MAINTAIN INTERIOR ALIGNMENT OF PIPE AT JOINTS UNTIL CONCRETE IS PROPERLY CURED.
3. BACKFILL OF PIPE REPAIR WITH SUITABLE MATERIAL MAY NOT TAKE PLACE UNTIL CONCRETE IS PROPERLY CURED.
4. CONTRACTOR SHALL MAINTAIN LINE AND GRADE OF PIPE REPAIR OR MODIFICATION BY METHODS APPROVED BY THE ENGINEER.
5. HOLES OR GAPS AT JOINT LARGER THAN 3/8" SHALL BE FILLED OR WRAPED TO PREVENT CONCRETE FROM ENTERING PIPE.
6. TRENCH EXCAVATION SHALL BE TO THE MAXIMUM EXTENT NEEDED TO PERFORM WORK.



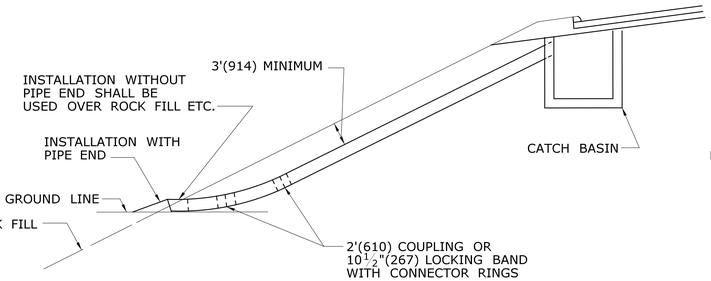
GENERAL NOTES:

1. ROCK REMOVED BEYOND THE MAXIMUM PAY LIMIT SHOWN SHALL BE REPLACED WITH CEMENT RUBBLE MASONRY AND GRANULAR FILL.
2. FILL, AS REQUIRED TO CLOSE THE OPENING AS SHOWN ON THE PLANS, WILL BE AT THE CONTRACTORS EXPENSE. HOWEVER, THE PAY LIMIT LINES MAY BE MODIFIED TO COINCIDE WITH NATURAL FAULTS OR FISSURES OF ROCK AS THE ENGINEER MAY DETERMINE.
3. COATED CORRAGATED METAL PIPE (C.C.M.P.)



SECTION A - A

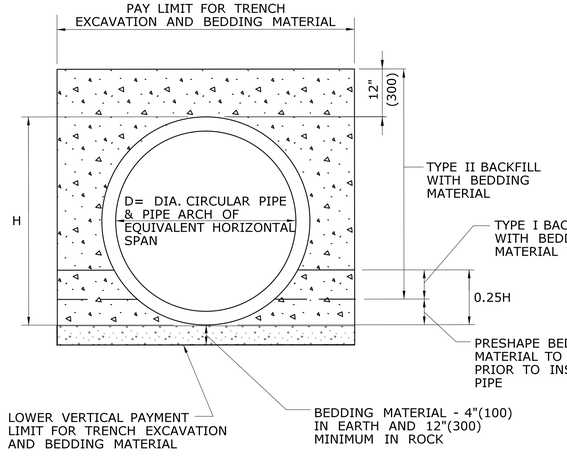
TYPICAL INSTALLATION OF C.C.M.P. IN ROCK SLOPE



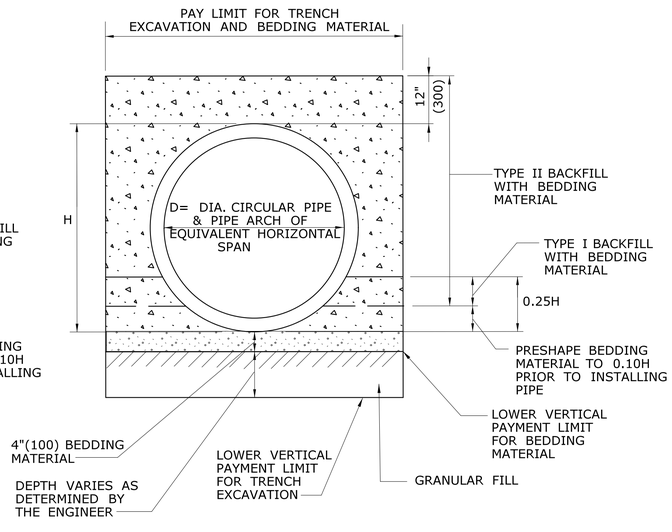
TYPICAL INSTALLATION OF C.C.M.P ELBOW IN FILL SLOPE

TABLE C
CONNECTOR RINGS

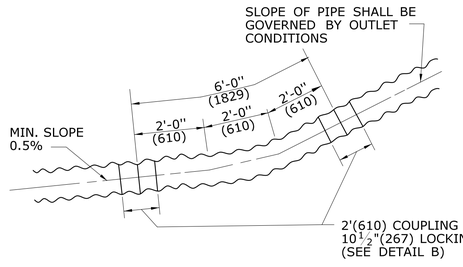
PIPE DIAMETER	LENGTH OF RING
12" (300)	52" (1321)
15" (381)	61" (1549)
18" (457)	71" (1803)
21" (533)	80" (2032)
24" (610)	90" (2286)
30" (762)	108" (2743)
36" (915)	128" (3251)
42" (1066)	147" (3734)
48" (1219)	166" (4216)



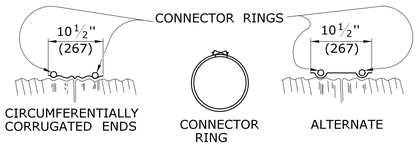
PIPE TRENCH DETAIL
WHERE GRANULAR FILL IS NOT USED



PIPE TRENCH DETAIL
WHERE GRANULAR FILL IS USED AS BEDDING



DETAIL A
C.C.M.P. ELBOW AND COUPLING



RODS: 7/16"(11) DIAMETER ELECTRO-GALVANIZED WITH 6"(152) LENGTH OF ½"(13) ROLLED THREADS EACH END, FURNISHED CURVED, TO FIT PIPE. SEE TABLE C

LUGS: DOUBLE TAKE UP, CAST IRON, ELECTRO-GALVINIZED.

NOTE: THE COUPLER FASTENING DEVICE SHALL NOT INTERFERE WITH INSTALLATION OF CONNECTOR RINGS.

DETAIL B
ELBOW DIMENSIONS

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

REV.	DATE	REVISION DESCRIPTION
-	-	-
-	-	-
-	-	-
3	7/13	ADD CONCRETE PIPE CONNECTION DETAIL
2	6/01/10	REVISE TITLE TO SAY TRENCH DETAIL
1	6/01/10	REMOVE GRAVEL, REPLACE W/ GRANULAR

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Plotted Date: 6/13/2013

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD2013.dgn Model: 17-HW-651_01

SUBMITTED BY: NAME/DATE/TIME:
Digitally signed by Leo L. Fontaine
Date: 2013.07.24 11:01:39-04'00'

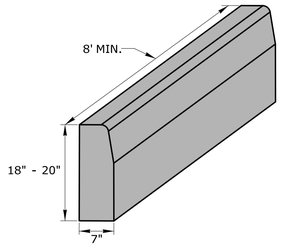
APPROVED BY: NAME/DATE/TIME:
James H. Norman
2013.07.24 14:44:01-04'00'

CTDOT STANDARD SHEET

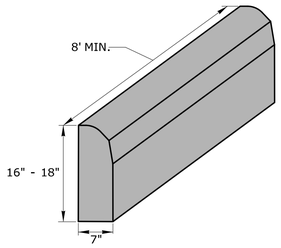
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
C.C.M.PIPE INSTALLATIONS IN FILL & ROCK SLOPES & PIPE TRENCH DETAIL

STANDARD SHEET NO.:
HW-651_01



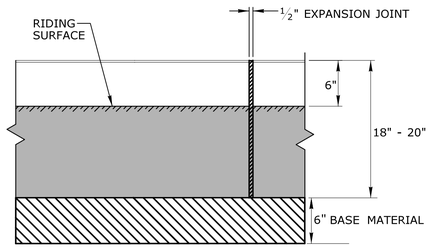
CONCRETE CURBING (6" REVEAL)



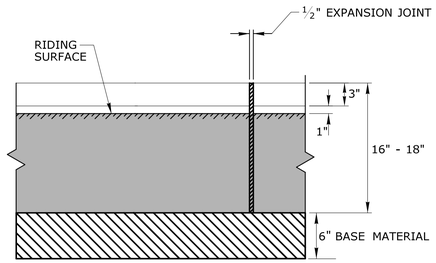
CONCRETE PARK CURBING (4" REVEAL)

GENERAL NOTE:

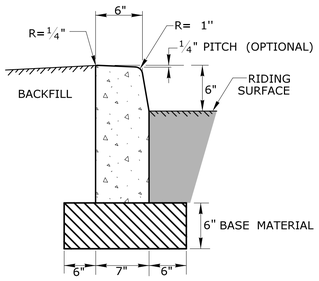
1. PRECAST CONCRETE CURBING MAY BE CAST BY THE MANUFACTURER WITH OPTIONAL LIFTING AND DOWEL BAR HOLES.



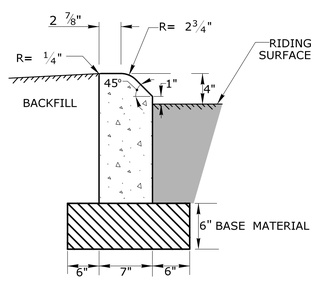
FRONT ELEVATION



FRONT ELEVATION



SECTION



SECTION

REV.	DATE	REVISION DESCRIPTION
1	6/01/10	REVISED TITLE FOR 6" CONC. CURB
2	6/17	REMOVED STONE, BITUMINOUS & GRANITE ITEMS

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Plotted Date: 6/6/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: HW-811_01.dgn Model: CT_Civil_2D_Sheet

SUBMITTED BY: NAME/DATE/TIME:
Leo Fontaine, P.E.
2017.06.07 07:33:29-04'00'

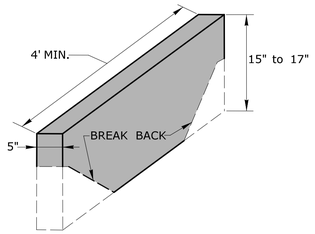
APPROVED BY: NAME/DATE/TIME:
Gregory M. Dorosh, P.E.
2017.06.07 10:41:26-04'00'

CTDOT STANDARD SHEET

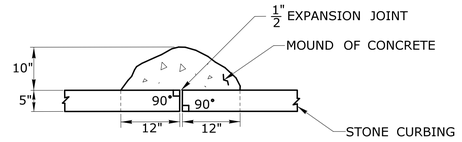
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
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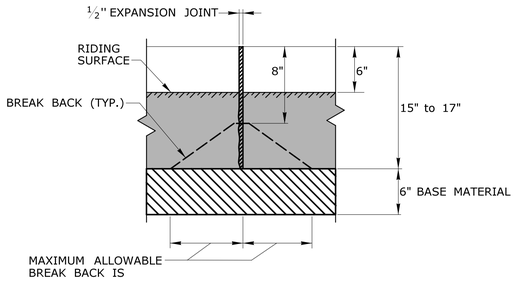
STANDARD SHEET NO.:
HW-811_01



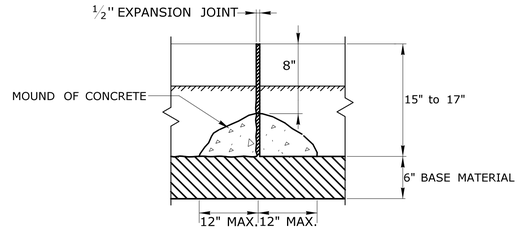
STONE CURBING



PLAN

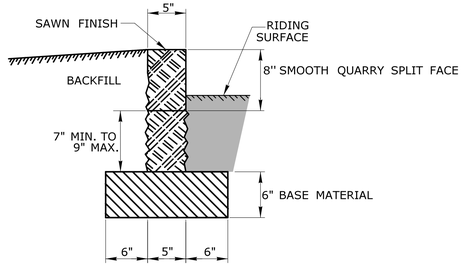


FRONT ELEVATION



BACK ELEVATION

MOUND OF CONCRETE AT ALL JOINTS FOR STONE CURBING



SECTION

REV.	DATE	REVISION DESCRIPTION
1	6/17	NEW SHEET

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Plotted Date: 6/6/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: HW-813_02.dgn Model: CT_Civil_2D_Sheet

SUBMITTED BY: NAME/DATE/TIME:
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2017.06.07 07:33:41-04'00'

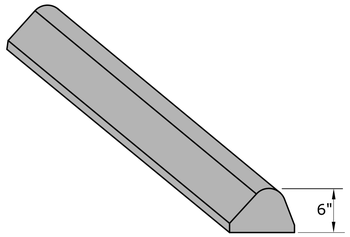
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Gregory M. Dorosh, P.E.
2017.06.07 10:43:04-04'00'

CTDOT STANDARD SHEET

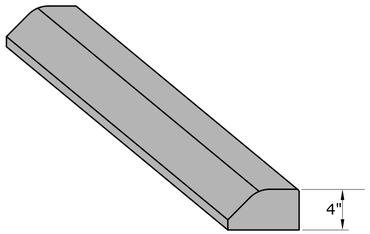
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
STONE CURBING

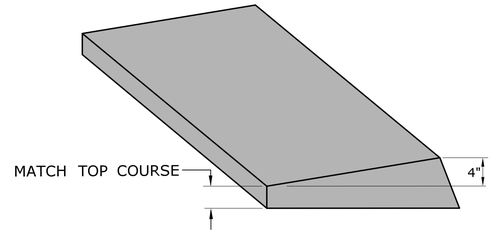
STANDARD SHEET NO.:
HW-813_02



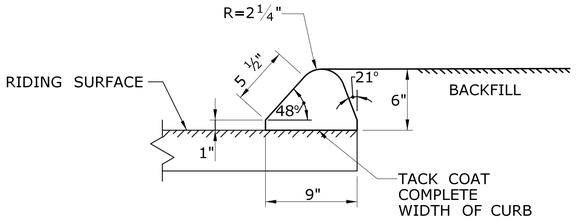
BITUMINOUS CONCRETE LIP CURBING
(6" HIGH)



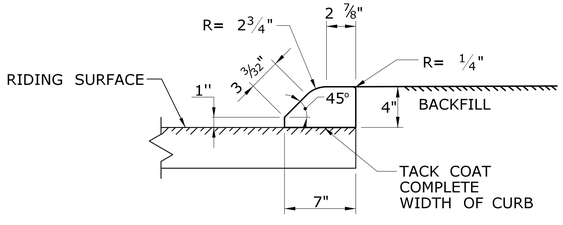
BITUMINOUS CONCRETE PARK CURBING
(4" HIGH)



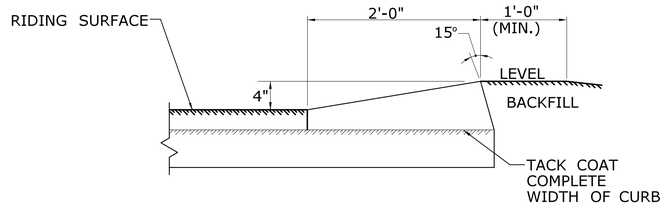
BITUMINOUS CONCRETE BERM CURBING
(4" HIGH)



SECTION



SECTION



SECTION

REV.	DATE	REVISION DESCRIPTION
1	6/17	NEW SHEET

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Plotted Date: 6/6/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: HW-815_01.dgn Model: CT_Civil_2D_Sheet

SUBMITTED BY: NAME/DATE/TIME:
Leo Fontaine, P.E.
2017.06.07 07:33:51-04'00'

APPROVED BY: NAME/DATE/TIME:
Gregory M. Dorosh, P.E.
2017.06.07 10:44:27-04'00'

CTDOT STANDARD SHEET

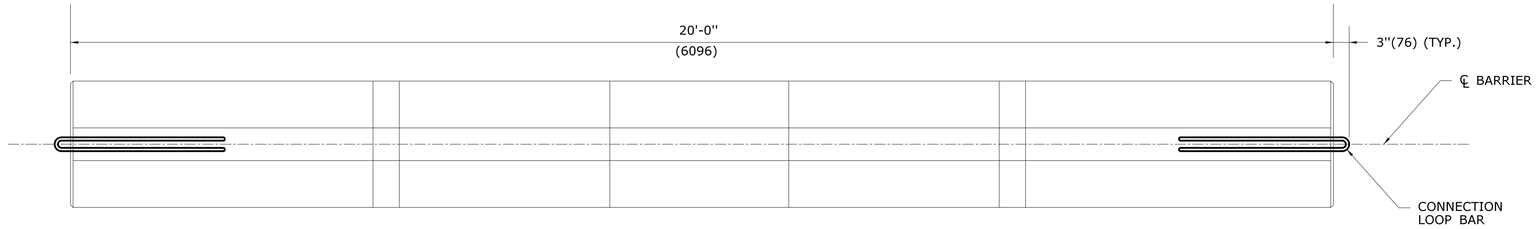
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
BITUMINOUS CONCRETE CURBING

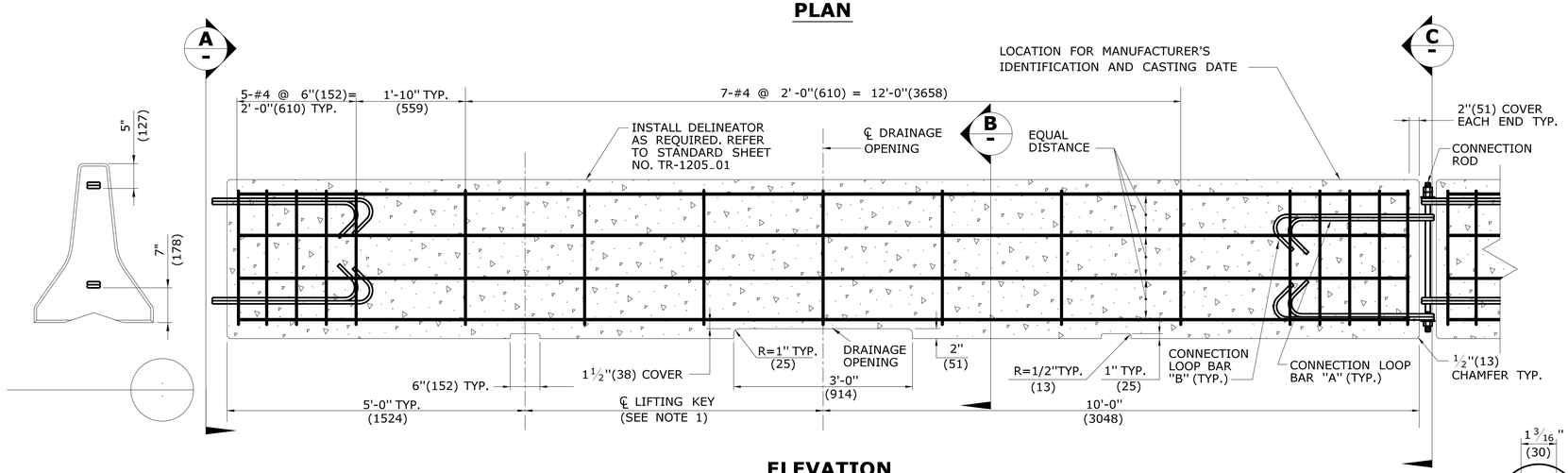
STANDARD SHEET NO.:
HW-815_01

GENERAL NOTES:

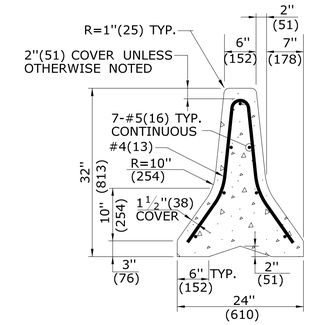
1. ALTERNATE DESIGNS FOR LIFTING KEYS, HOLES OR OTHER HANDLING DEVICES MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. EXPECTED PERMANENT DYNAMIC DEFLECTION IS 3'-6" (1148) BASED ON TL-3 CRASH TESTS WITH 240' (73152) OF TPCBC.



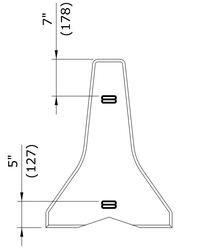
PLAN



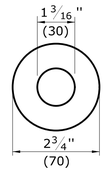
ELEVATION



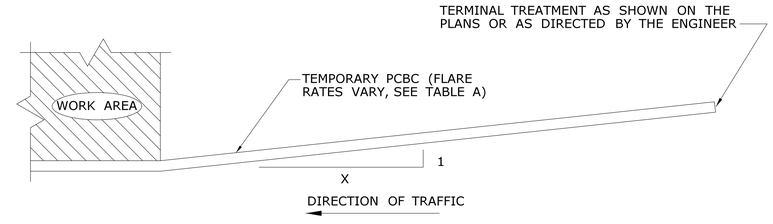
SECTION B -



END VIEW C -



WASHER DETAIL



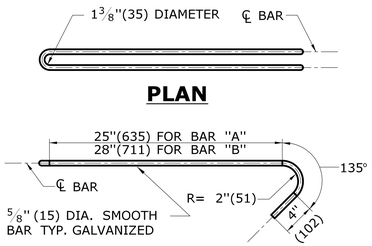
PLAN - TYPICAL INSTALLATION

TABLE A

FLARE RATES

* SPEED	FLARE RATE (X : 1)
≤ 30MPH(48KPH)	4 : 1
> 30MPH(48KPH) <45MPH(72KPH)	6 : 1
≥ 45MPH(72KPH) NON-LIMITED ACCESS HIGHWAYS	8 : 1
ALL LIMITED ACCESS HIGHWAYS	10 : 1

* DESIGN SPEED THROUGH THE WORK AREA.

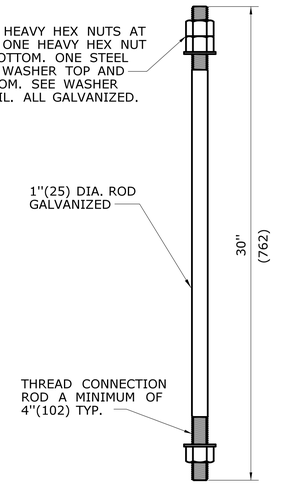


PLAN

ELEVATION

BAR "A" = 6'-0"(1829) TOTAL
BAR "B" = 6'-6"(1981) TOTAL

CONNECTION LOOP BAR



CONNECTION ROD

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

1	3/12	REVISE SLOPE NOTE & DETAIL NOTE	
~~2~~	7/13	~~ERRATA~~	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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NOT TO SCALE

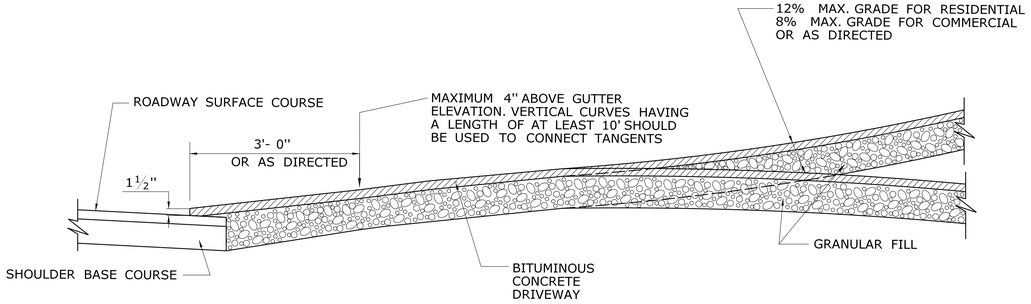
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

NAME/DATE/TIME:
Digitally signed by Leo L. Fontaine
Date: 2013.07.24 11:00:01-04'00'
APPROVED BY: NAME/DATE/TIME:
James H. Norman
2013.07.24 14:48:34-04'00'

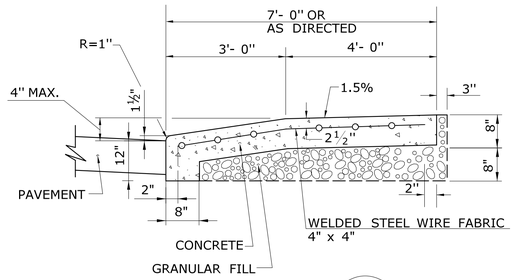
CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

TEMPORARY PRECAST
CONCRETE BARRIER CURB

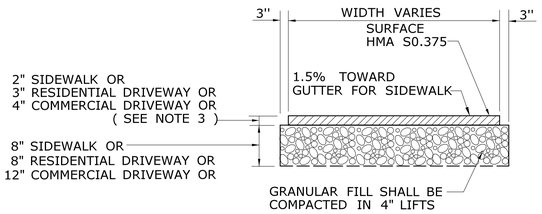
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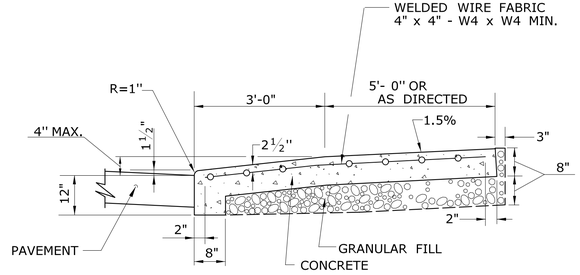
SECTION A



SECTION B



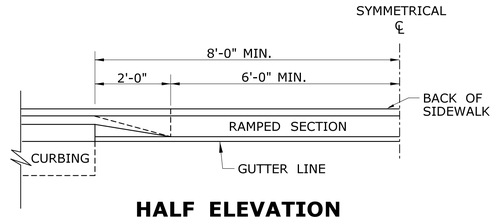
TYPICAL SECTION
BITUMINOUS CONCRETE
SIDEWALK AND DRIVEWAY



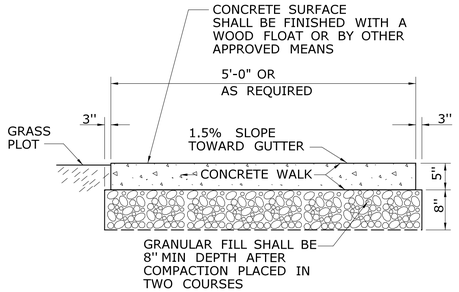
SECTION C

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.

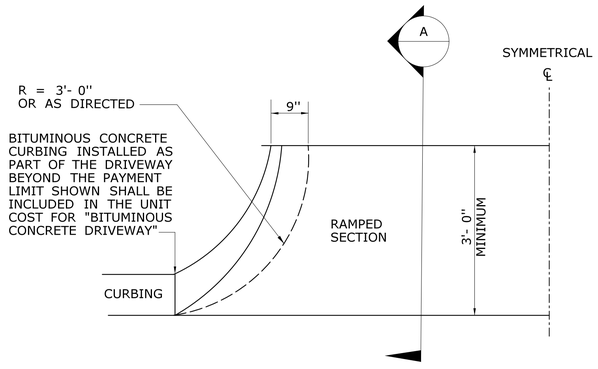


HALF ELEVATION

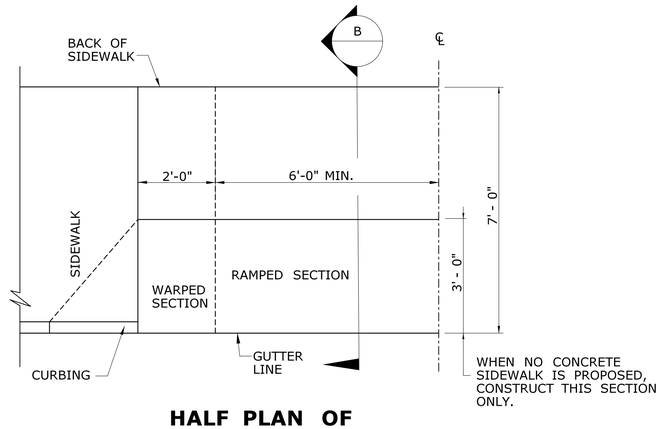


SECTION D

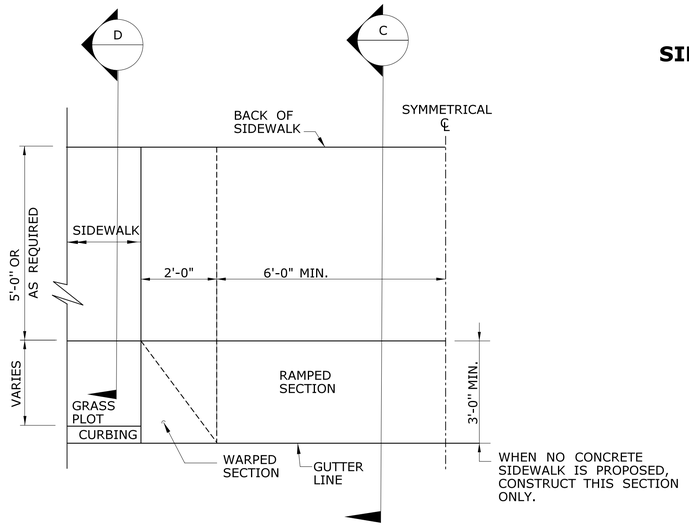
5' WIDE CONCRETE
SIDEWALK WITH GRASS PLOT



HALF BITUMINOUS CONCRETE
DRIVEWAY PLAN



HALF PLAN OF
CONCRETE DRIVEWAY RAMP WHERE
SIDEWALK ADJOINS CURBING



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

REV.	DATE	REVISION DESCRIPTION
1	6/01/10	REVISED BORDER TITLE
2	6/01/10	REVISED HALF ELEVATION DETAILS
3	1/12	REVISE 2% MAX. SLOPE NOTE
4	6/17	REVISED SLOPES & MATERIAL COMPOSITIONS
-	-	INCREASED WALKING WIDTH OF CONCRETE DRIVEWAY RAMP

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Plotted Date: 6/6/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: HW-921_01.dgn Model: CT_Civil_2D_Sheet

SUBMITTED BY:	NAME/DATE/TIME:
	Leo Fontaine, P.E. 2017.06.07 07:34:10-04'00'
APPROVED BY:	NAME/DATE/TIME:
	Gregory M. Dorosh, P.E. 2017.06.07 10:47:32-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

DRIVEWAY RAMPS AND SIDEWALKS

STANDARD SHEET NO.:

HW-921_01

DRAWING NO.	TITLE	DATE*
DGS-14	CTDOT BOUNDARY MARKER	02-19
DGS-15	PAVEMENT REPAIR	02-19
DGS-16	PRESSURE RELIEF JOINT	02-19
DGS-01	CATCH BASIN AND DROP INLET TYPES	12-17
DGS-02	CATCH BASIN TYPES DOUBLE GRATE TYPE - I	12-17
DGS-03	CATCH BASIN TYPES DOUBLE GRATE TYPE - II	12-17
DGS-04	PRECAST CATCH BASIN & ROUND STRUCTURE	05-19
DGS-05	PRECAST CATCH BASIN TYPES DOUBLE GRATE I	12-17
DGS-06	PRECAST CATCH BASIN TYPES DOUBLE GRATE II	12-17
DGS-07	CATCH BASIN TOPS TYPE "C" & "C-L"	02-19
DGS-08	CATCH BASIN FRAMES AND GRATES	12-17
DGS-09	CATCH BASIN LOCK DOWN TOPS	12-17
DGS-10a	MANHOLE - FRAME AND COVER	02-19
DGS-10b	MANHOLE - FRAME AND GRATE	02-19
DGS-10c	REINFORCED PRECAST CONCRETE MANHOLE	02-19
DGS-10d	MANHOLE NON-PRECAST CONCRETE UNIT	02-19
DGS-11	C.C.M. PIPE INSTALLATIONS & PIPE TRENCH DETAIL	12-17
DGS-12	SLOTTED DRAIN PIPE 12" - 15" - 18" - 24" - 30"	12-17
DGS-13	PIPE ENDS	12-17
DGS-17	CONCRETE WASHOUT AREA	02-19
DGS-18	WIRE FENCE WITH GATES	02-19
DGS-19	CONCRETE SIDEWALK RAMP(S) INDEX SHEET	06-19
DGS-20	CONCRETE SIDEWALK RAMPS SHEET 1	06-19
DGS-21	CONCRETE SIDEWALK RAMPS SHEET 2	02-19
DGS-22	CONCRETE SIDEWALK RAMPS SHEET 3	02-19
DGS-23	CONCRETE SIDEWALK RAMPS SHEET 4	02-19
DGS-24	CONCRETE SIDEWALK RAMPS SHEET 5	02-19
DGS-25	CONCRETE SIDEWALK RAMPS SHEET 6	02-19
DGS-26	CONCRETE SIDEWALK RAMPS SHEET 7	02-19
DGS-27	CONCRETE SIDEWALK RAMPS SHEET 8	02-19
DGS-28	CONCRETE SIDEWALK RAMPS SHEET 9	02-19
DGS-29	CONCRETE SIDEWALK RAMPS SHEET 10	02-19

TITLE	DATE*

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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-	-	-	-

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Plotted Date: 6/11/2019

DESIGNER/DRAFTER: GUZZE/TANSKI

CHECKED BY: KRISTEN E. SOLLOWAY, P.E.

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD [5-30-19].dgn

SIGNATURE/ BLOCK:

PROJECT TITLE: JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

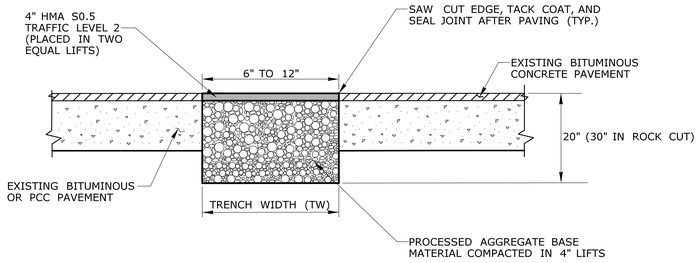
TOWN: NEW LONDON

DRAWING TITLE: **HIGHWAYS GUIDE SHEET INDEX**

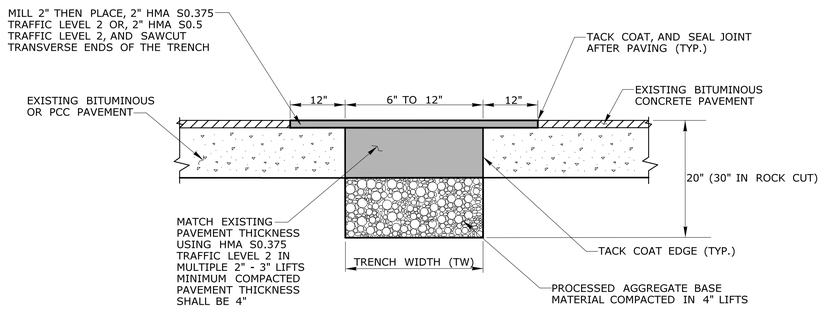
PROJECT NO. L094-0002

DRAWING NO. DGS-00

SHEET NO.



TEMPORARY PAVEMENT - FOR NARROW TRENCH THROUGH BITUMINOUS CONCRETE OR OVERLAID PORTLAND CEMENT CONCRETE (PCC) (TRENCH WIDTH BETWEEN 6" AND 12")



PERMANENT PAVEMENT - FOR NARROW TRENCH THROUGH BITUMINOUS CONCRETE OR OVERLAID PORTLAND CEMENT CONCRETE (PCC) (TRENCH WIDTH BETWEEN 6" AND 12")

GENERAL NOTES:

1. LONGITUDINAL TRENCHING FOR JOINTED CONCRETE PAVEMENT:

   A. IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE SLAB CENTERLINE AND THE EDGE OF SLAB, REMOVE CONCRETE AND BITUMINOUS CONCRETE PAVEMENT FROM THE TRENCH EDGE TO THE EDGE OF ROAD. IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE LONGITUDINAL JOINT AND THE SLAB CENTERLINE, REMOVE THE ENTIRE CONCRETE SLAB AND BITUMINOUS CONCRETE PAVEMENT TO THE EDGE OF ROAD. IN EITHER CASE REBUILD WITH THE FOLLOWING:

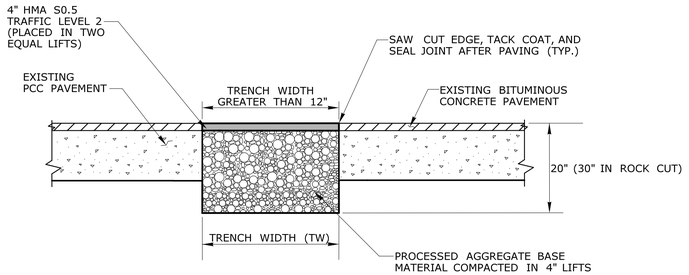
      a. PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
      b. PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"

2. TRANSVERSE TRENCHING FOR JOINTED CONCRETE PAVEMENT:

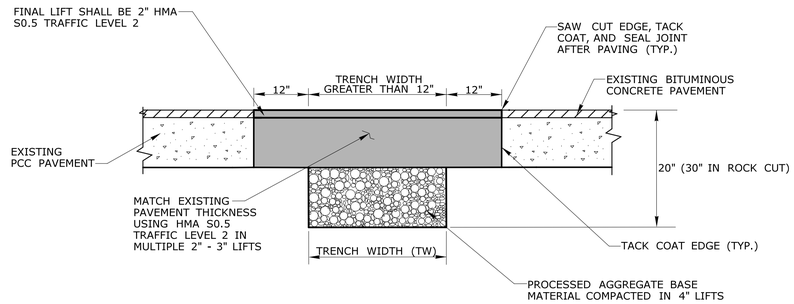
TABLE 1	
TOTAL SLAB LENGTH (L)	MIN. LENGTH REMAINING
40' OR LONGER	1/4 L
15' - 40'	10'
15' OR SHORTER	REBUILD TO NEAREST JOINT

   A. FOR TRANSVERSE TRENCHES, THE MINIMUM SLAB LENGTH AS SHOWN IN TABLE 1 SHALL BE LEFT IN PLACE TO THE NEAREST TRANSVERSE JOINT. IF THIS CRITERIA CANNOT BE MET, THE EXISTING SLAB AREA FROM THE TRENCH EDGE TO THE NEAREST TRANSVERSE JOINT SHALL BE REMOVED AND REBUILT AS FOLLOWS:

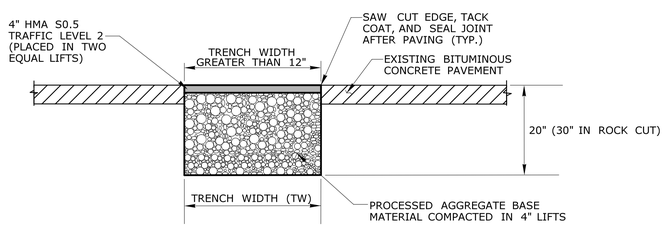
      a. PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
      b. PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"



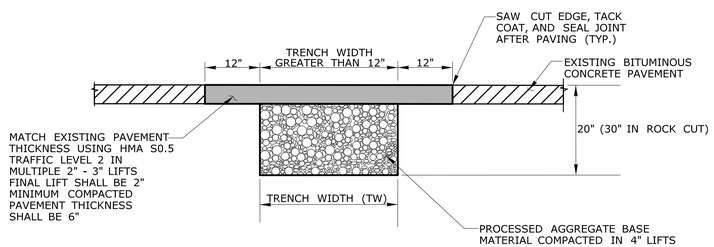
TEMPORARY PAVEMENT FOR TRENCH THROUGH OVERLAID PORTLAND CEMENT CONCRETE (PCC) (TRENCH WIDTH GREATER THAN 12")



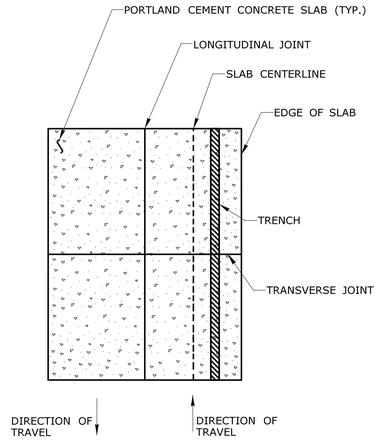
PERMANENT PAVEMENT FOR TRENCH THROUGH OVERLAID PORTLAND CEMENT CONCRETE (PCC) (TRENCH WIDTH GREATER THAN 12")



TEMPORARY PAVEMENT FOR TRENCH THROUGH BITUMINOUS CONCRETE (TRENCH WIDTH GREATER THAN 12")

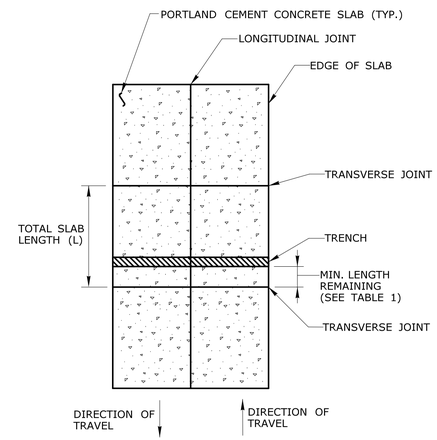


PERMANENT PAVEMENT FOR TRENCH THROUGH BITUMINOUS CONCRETE



LONGITUDINAL TRENCHING FOR JOINTED CONCRETE PAVEMENT

(SEE NOTE 1)



TRANSVERSE TRENCHING FOR JOINTED CONCRETE PAVEMENT

(SEE NOTE 2)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/30/2019

DESIGNER/DRAFTER: GUZZE/TANSKI

CHECKED BY: KRISTEN E. SOLLOWAY, P.E.

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn

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PROJECT TITLE: JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

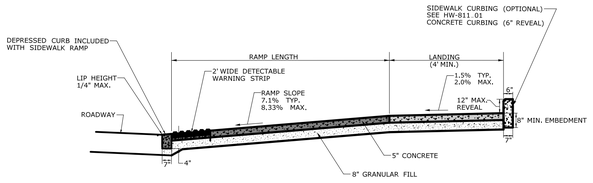
TOWN: NEW LONDON

DRAWING TITLE: **PAVEMENT REPAIR**

PROJECT NO. L094-0002

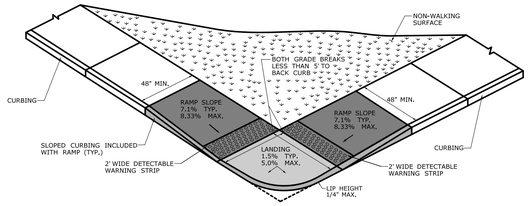
DRAWING NO. DGS-15

SHEET NO.



BASIC RAMP ATTRIBUTES

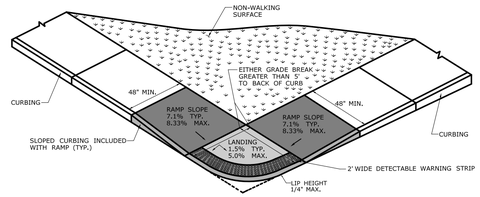
- Plan view of Ramp Components
- Section View of Typical Ramp
- Wheelchair Cross-slope Criteria
- Ramp Warping Detail



PERPENDICULAR RAMP(S)
LANDING'S GRADE BREAK OF 5' OR LESS

TYPE 1 SIDEWALK ABUTS ROADWAY

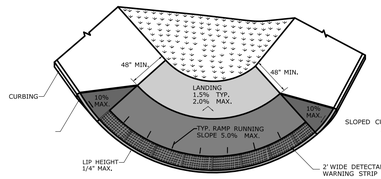
TYPE 3 SIDEWALK SEPARATED FROM ROADWAY WITH NONWALK AREA



BLENDED RAMP(S)
LANDING'S GRADE BREAK GREATER THAN 5'

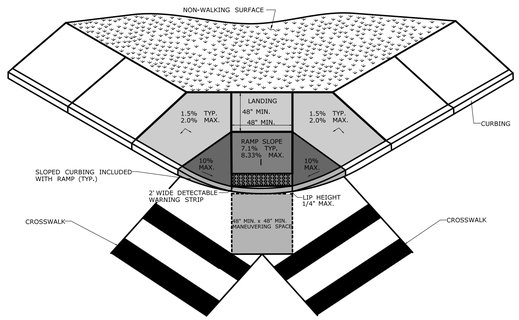
TYPE 2 SIDEWALK ABUTS ROADWAY

TYPE 4 SIDEWALK SEPARATED FROM ROADWAY WITH NONWALK AREA



BLENDED RAMP(S)
LANDING'S IS LOCATED ON TOP

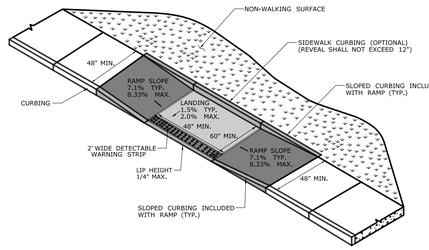
TYPE 5 SIDEWALK ABUTS ROADWAY



PERPENDICULAR RAMP(S) WITH STREET MANEUVERING SPACE

TYPE 6 LANDING OBSTRUCTION PRESENT

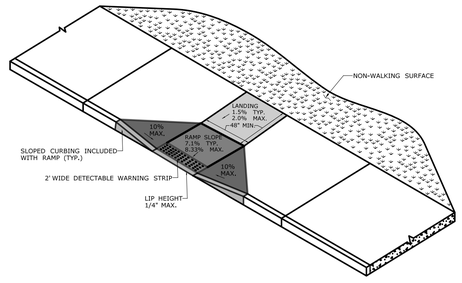
TYPE 7 NO LANDING OBSTRUCTION



PARALLEL RAMP(S)

TYPE 9 TWO RAMP(S) APPROACH TO LANDING

TYPE 10 SINGLE RAMP TO LANDING



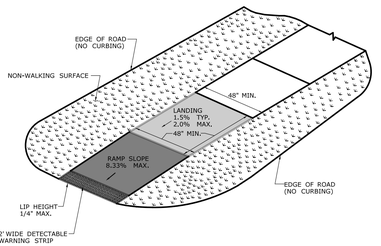
PERPENDICULAR RAMP(S)

TYPE 8 LANDING BYPASS WITH WALKABLE SURFACE

TYPE 13 LANDING WITH NON-WALKABLE SURFACE

TYPE 12 60" X 48" LANDING WITH NON-WALKABLE SURFACE

TYPE 11 60" X 60" LANDING WITH NON-WALKABLE SURFACE



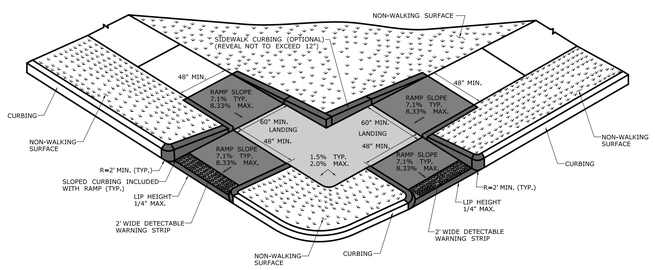
SINGLE DIRECTION RAMP(S)

TYPE 15 LANDING'S GRADE BREAK LESS THAN 5 FT

TYPE 14 LANDING'S GRADE BREAK GREATER 5 FT

TYPE 16 RAMP WITH RETURN CURBING

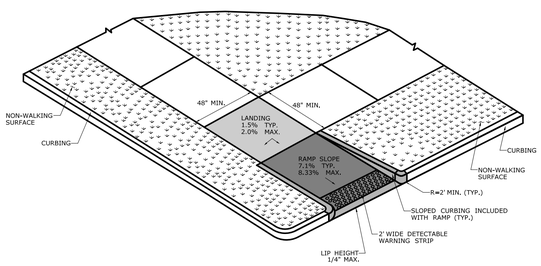
TYPE 17 RAMP WITH NO RETURN CURBING



PERPENDICULAR RAMP(S)

TYPE 18 EXAMPLE OF RAMP FLARE/CURB APPLICATIONS

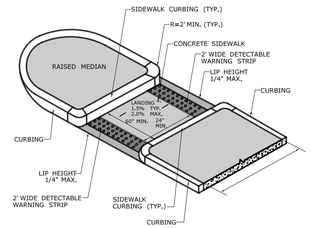
TYPE 19 COMBINATION SIDEWALK RAMPS



RESTRICTED PEDESTRIAN CROSSING SIDEWALK RAMP(S)

TYPE 20 SINGLE RAMP FROM LANDING

TYPE 21 TWO RAMP(S) TO LANDING



PEDESTRIAN REFUGE ISLAND(S)

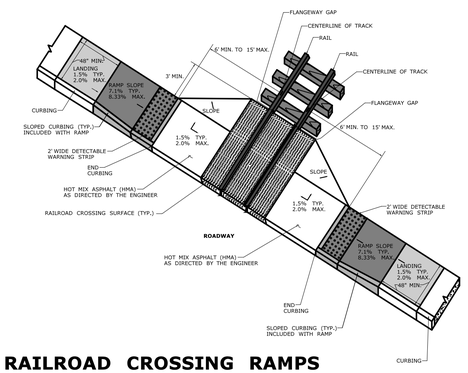
TYPE 22 ISLAND WIDTH 6 FT OR MORE

TYPE 23 ISLAND LESS THAN 6 FT WIDE

TYPE 24 REFUDGE ISLAND WITH ELEVATED LANDING

TYPE 25 RIGHT TURN SLIP-LANE REFUDGE ISLAND

TYPE 26 REFUDGE ISLAND WITH OFFSET ACCESS



RAILROAD CROSSING RAMPS

TYPE 27 RAILROAD CROSSING WITHOUT GATE

TYPE 28 RAILROAD CROSSING WITH GATE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 6/11/2019

DESIGNER/DRAFTER: GUZZE/TANSKI

CHECKED BY: KRISTEN E. SOLLOWAY, P.E.

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860-646-2469
www.fando.com

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_SIDEWALK_INDEX_[6-3-19].dgn

SIGNATURE/
BLOCK:

PROJECT TITLE:
JEFFERSON AVE. AT CHESTER STREET
ROUNDABOUT & ROADWAY
IMPROVEMENTS

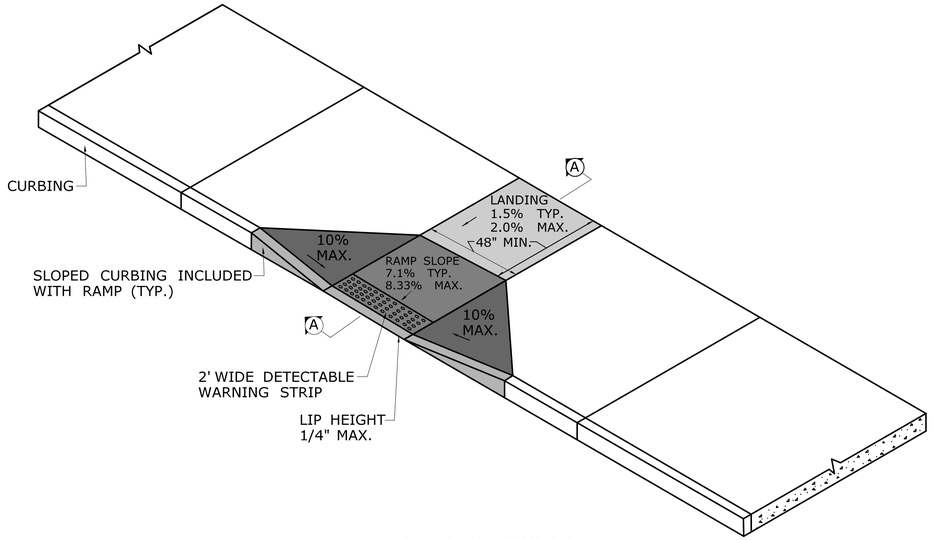
TOWN: NEW LONDON

DRAWING TITLE:
CONCRETE SIDEWALK RAMP(S) INDEX

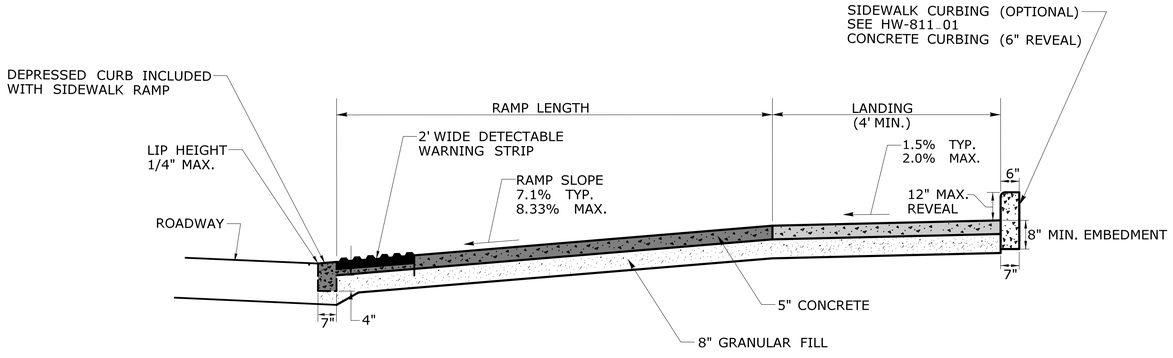
PROJECT NO. L094-0002

DRAWING NO. DGS-19

SHEET NO.



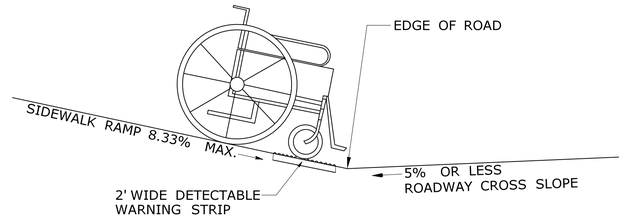
PERPENDICULAR SIDEWALK RAMP



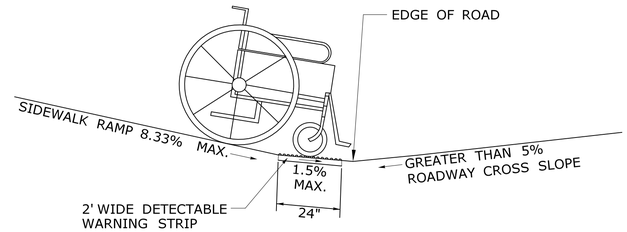
SECTION AA

GENERAL NOTES:

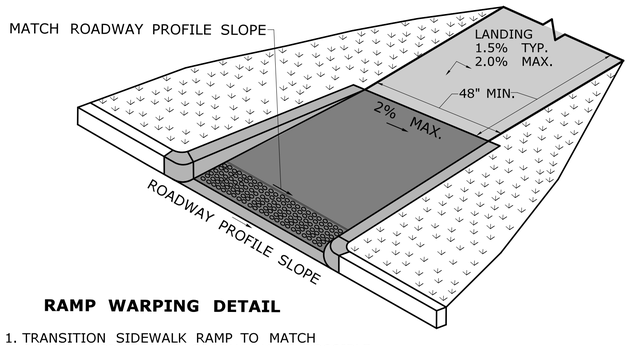
1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED $\frac{1}{4}$ INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE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



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



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



RAMP WARPING DETAIL

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

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1.	6/19	REVISED MAX LANDING SLOPE TO 2% AND DRAWING TITLE	

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Plotted Date: 6/11/2019

DESIGNER/DRAFTER: GUZZE/TANSKI

CHECKED BY: KRISTEN E. SOLLOWAY, P.E.

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
www.fando.com

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD [5-30-19].dgn

SIGNATURE/ BLOCK:

PROJECT TITLE: JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

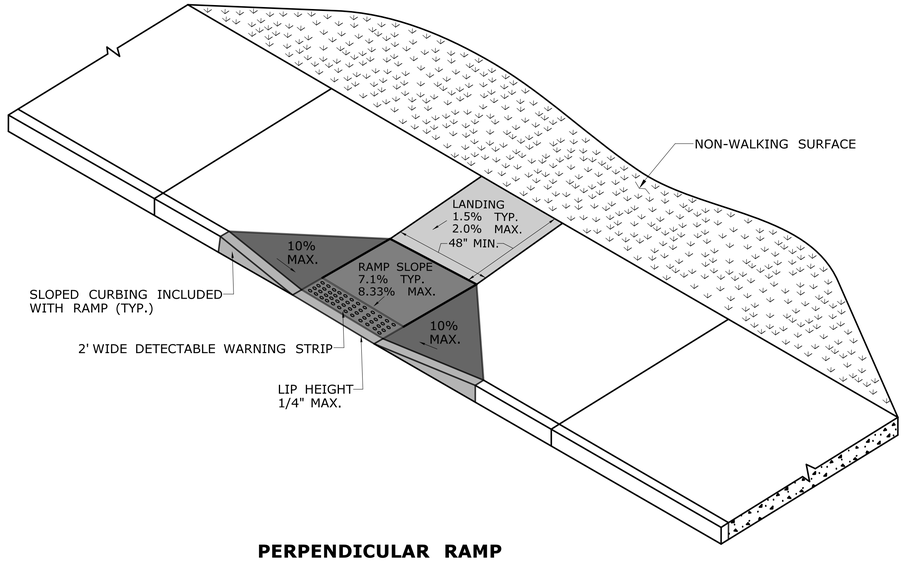
TOWN: NEW LONDON

DRAWING TITLE: **CONCRETE SIDEWALK RAMPS SHEET 1**

PROJECT NO. L094-0002

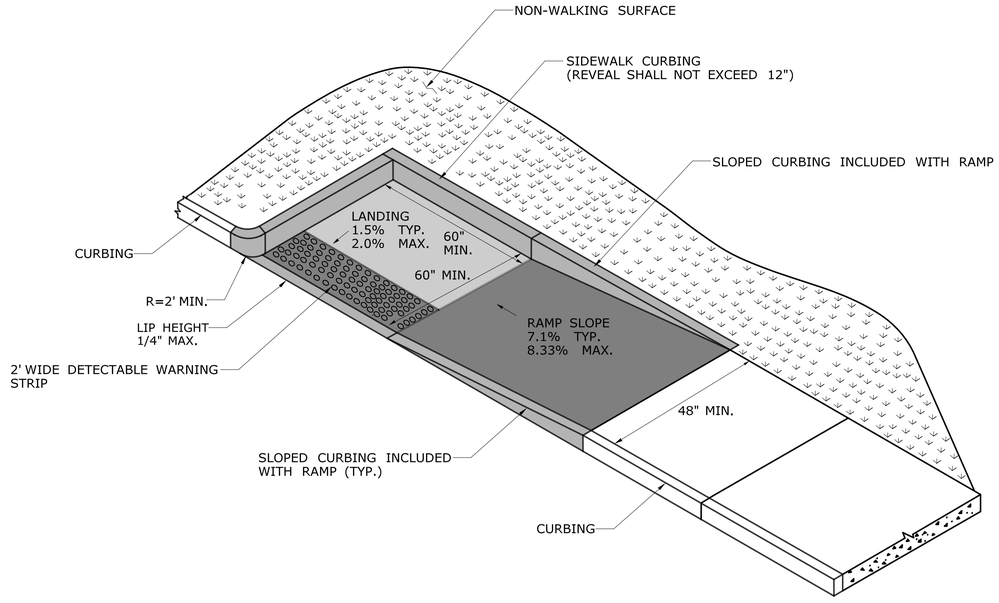
DRAWING NO. DGS-20

SHEET NO.



PERPENDICULAR RAMP
WITH 48" BY-PASS
(TYPE 8)

PARALLEL RAMP WITHOUT
NON-WALKING SURFACE
(TYPE 9)



PARALLEL RAMP
WITH LANDING AT BOTTOM ON CORNER
(TYPE 10)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/30/2019

DESIGNER/DRAFTER: GUZZE/TANSKI

CHECKED BY: KRISTEN E. SOLLOWAY, P.E.

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860.646.2469
www.fando.com

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn

SIGNATURE/ BLOCK:

PROJECT TITLE:
JEFFERSON AVE. AT CHESTER STREET
ROUNDABOUT & ROADWAY
IMPROVEMENTS

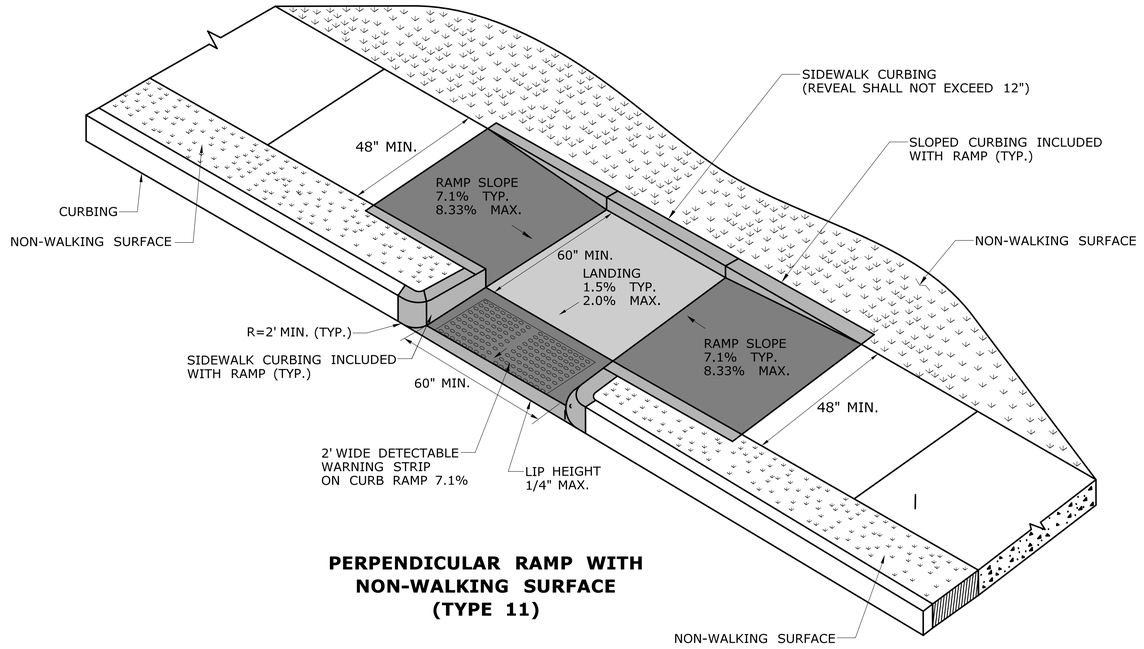
TOWN: NEW LONDON

DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 4

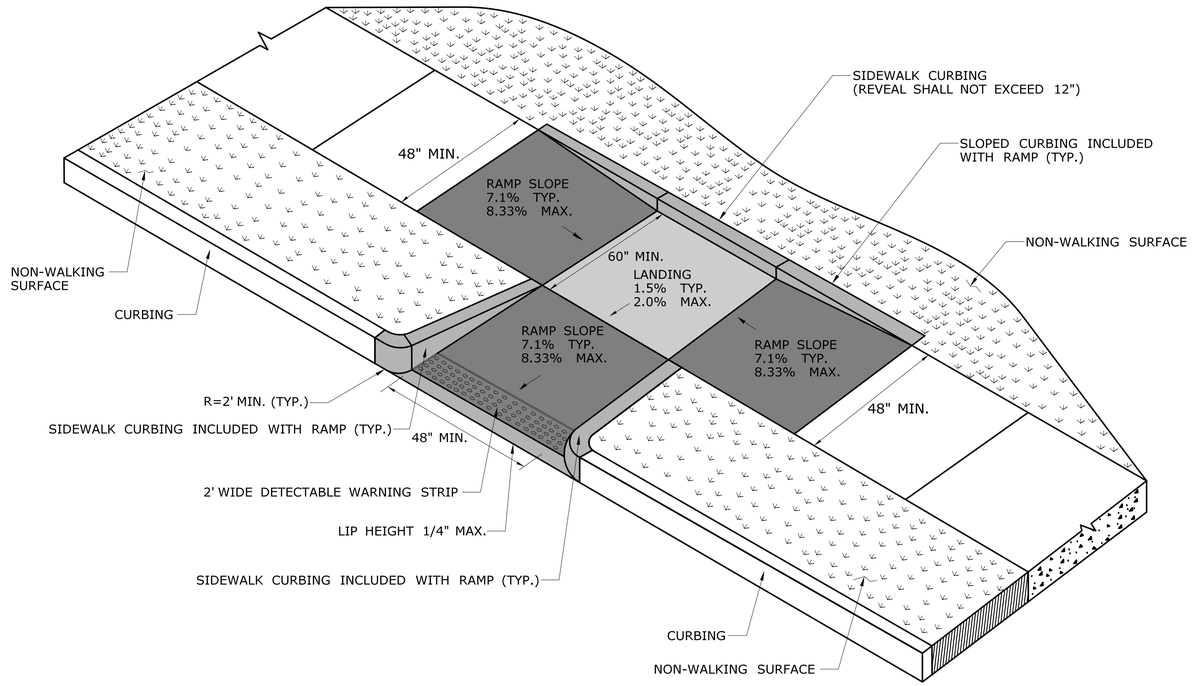
PROJECT NO. L094-0002

DRAWING NO. DGS-23

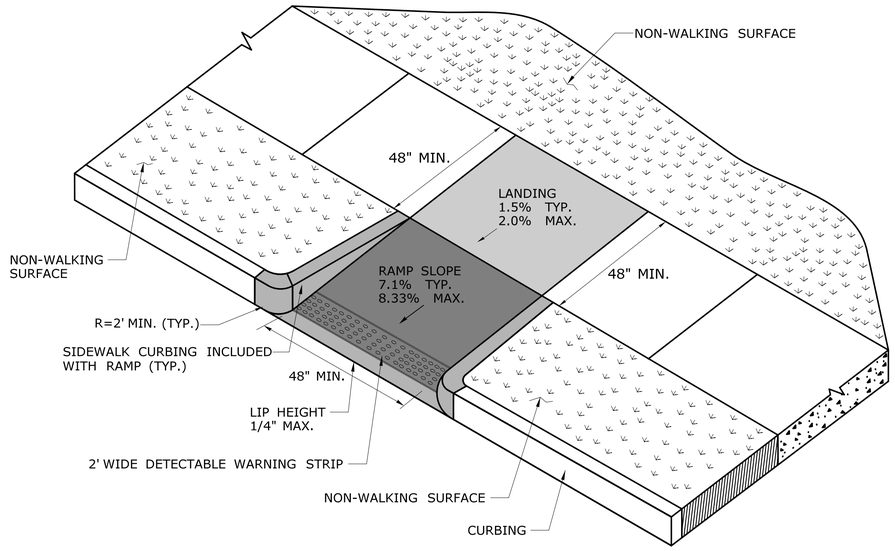
SHEET NO.



PERPENDICULAR RAMP WITH NON-WALKING SURFACE (TYPE 11)



PERPENDICULAR RAMP WITH SIDEWALK CURB AND NON-WALKING SURFACE (TYPE 12)



PERPENDICULAR RAMP WITH NON-WALKING SURFACE (TYPE 13)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn

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PROJECT TITLE: JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

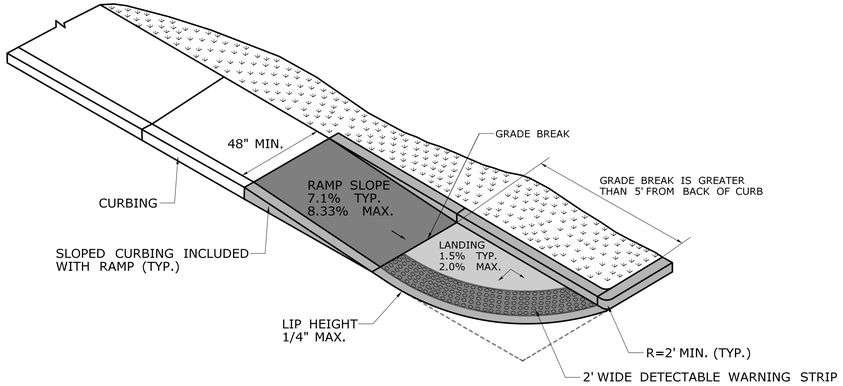
TOWN: NEW LONDON

DRAWING TITLE: **CONCRETE SIDEWALK RAMPS SHEET 5**

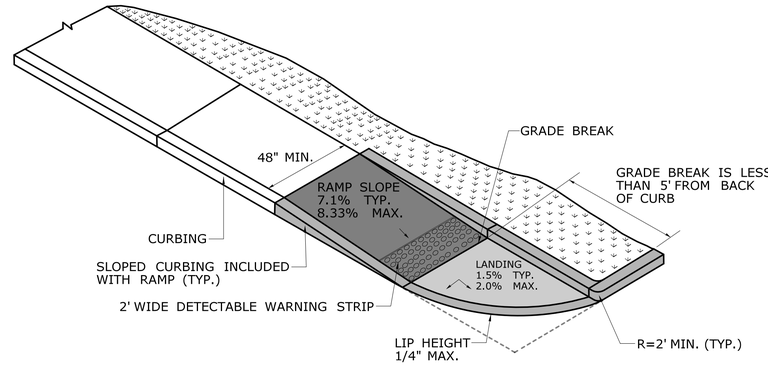
PROJECT NO. L094-0002

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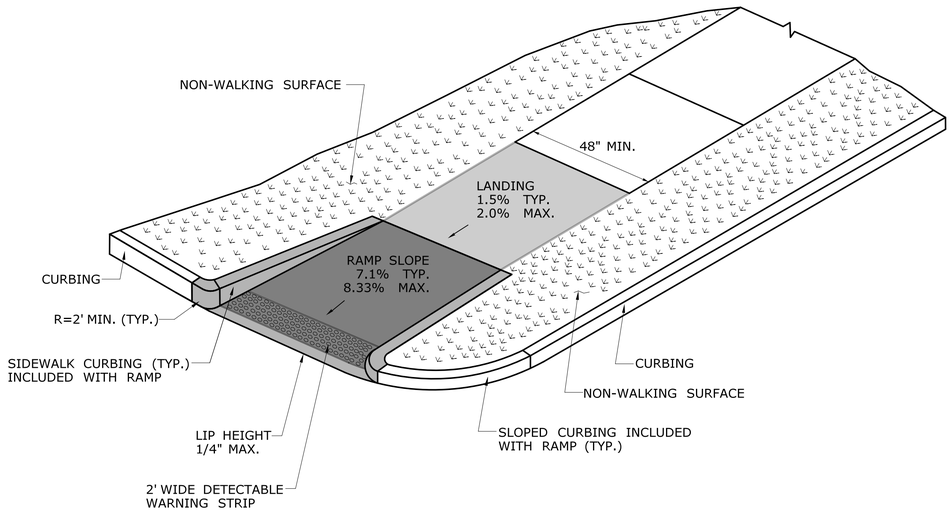
SHEET NO.



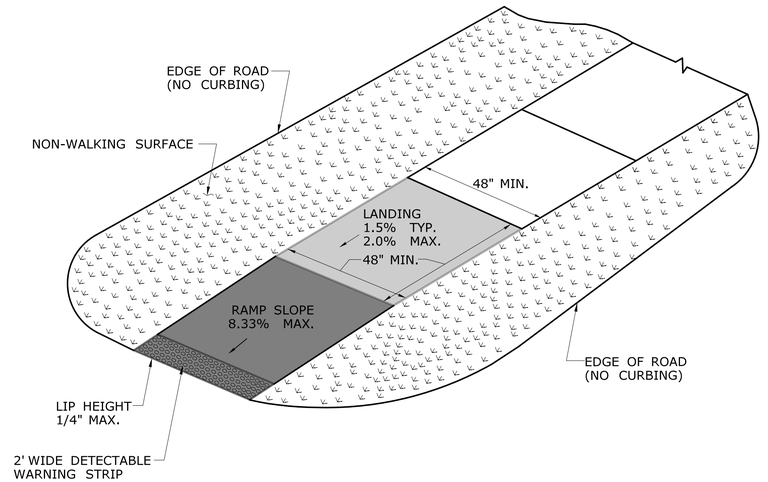
SINGLE DIRECTION RAMP
WITHOUT NON-WALKING SURFACE
GRADE BREAK GREATER THAN 5'
(TYPE 14)



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



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



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

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/30/2019

DESIGNER/DRAFTER: GUZZE/TANSKI

CHECKED BY: KRISTEN E. SOLLOWAY, P.E.

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MANCHESTER, CONNECTICUT 06040
860-646-2469
www.fando.com

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn

SIGNATURE/ BLOCK:

PROJECT TITLE: JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

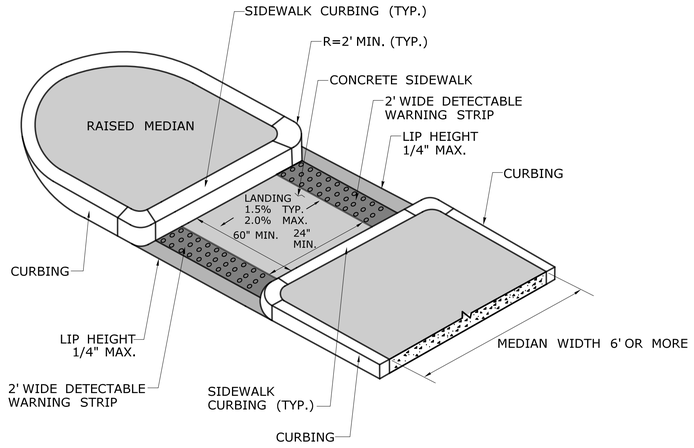
TOWN: NEW LONDON

DRAWING TITLE: **CONCRETE SIDEWALK RAMPS SHEET 6**

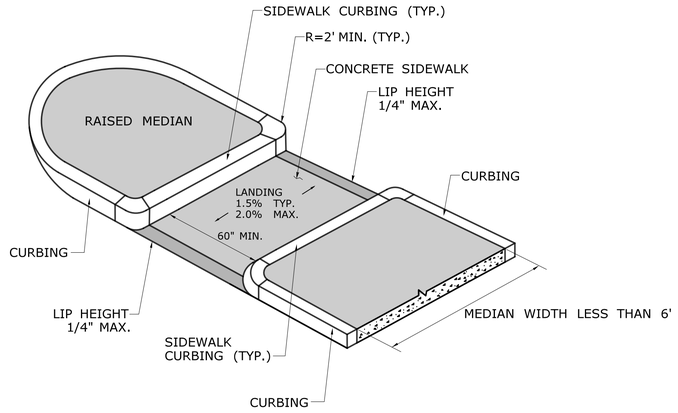
PROJECT NO. L094-0002

DRAWING NO. DGS-25

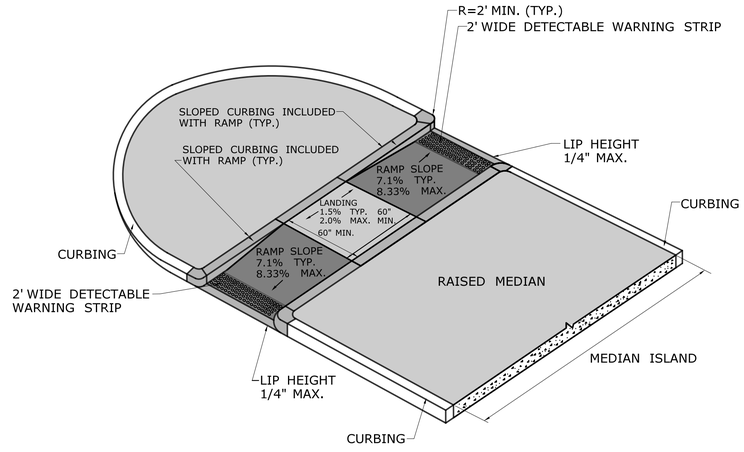
SHEET NO.



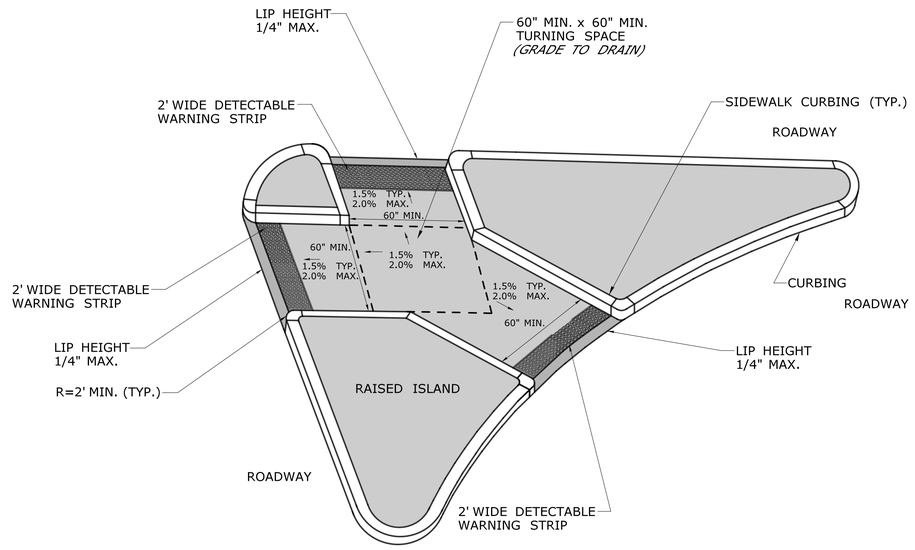
CUT-THROUGH PEDESTRIAN REFUGE ISLAND
MEDIAN WIDTH 6' OR MORE
(TYPE 22)



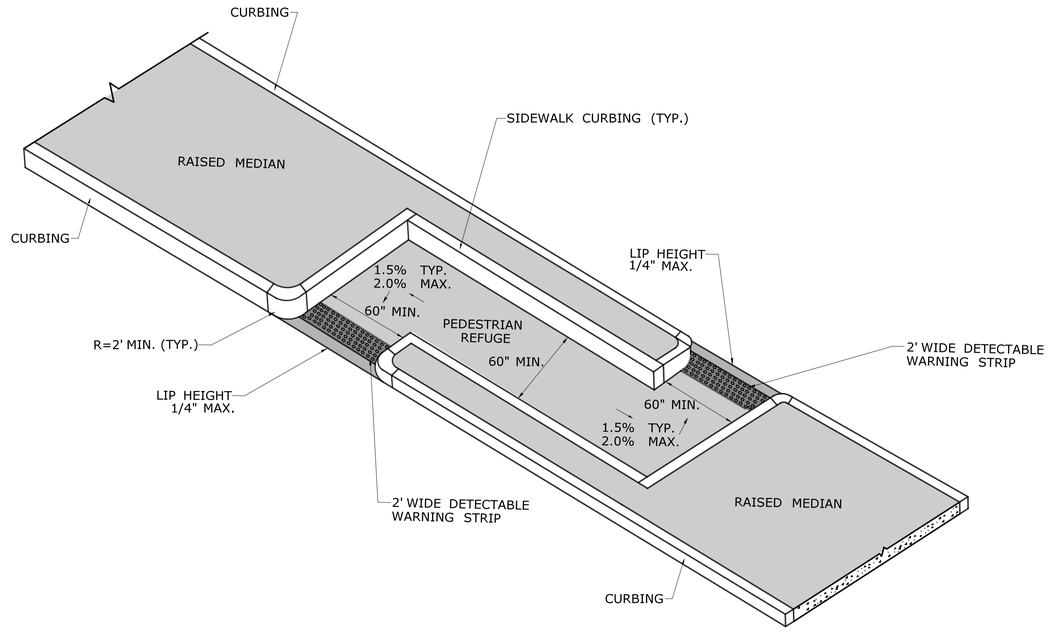
CUT-THROUGH PEDESTRIAN REFUGE ISLAND
MEDIAN WIDTH LESS THAN 6'
(TYPE 23)



PEDESTRIAN REFUGE ISLAND WITH LANDING AND RAMPS
(TYPE 24)



CUT-THROUGH PEDESTRIAN REFUGE ISLAND
(TYPE 25)



CUT-THROUGH PEDESTRIAN REFUGE ISLAND
OFFSET CONFIGURATION
(TYPE 26)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/30/2019

DESIGNER/DRAFTER: GUZZE/TANSKI

CHECKED BY: KRISTEN E. SOLLOWAY, P.E.

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn

SIGNATURE/ BLOCK:

PROJECT TITLE: JEFFERSON AVE. AT CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENTS

TOWN: NEW LONDON

DRAWING TITLE: **CONCRETE SIDEWALK RAMPS SHEET 9**

PROJECT NO. L094-0002

DRAWING NO. DGS-28

SHEET NO.

XX_BREAKAWAY SIGN SUPPORTS
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
BSM-1	INDEX OF DRAWINGS		
BSM-2	GENERAL NOTES		
BSM-3	POST SELECTION TABLE 1 (W ≤ 15 FT.)		
BSM-4	POST SELECTION TABLE 2 (W > 15 FT.)		
BSM-5	FOUNDATION DETAILS		
BSM-6	BRACKET DETAILS		
BSM-7	HINGE DETAILS		

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.

TRANSPORTATION PRINCIPAL ENGINEER

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 6/24/2019

DESIGNER/DRAFTER: Anders Carlton

CHECKED BY: Jason LeDoux, PE

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_Breakaway_Signpost_BSM1_Drawing_Index.dgn

SIGNATURE/ BLOCK:

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146 HARTFORD ROAD
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PROJECT TITLE:
JEFFERSON AVE. AT CHESTER STREET
ROUNDABOUT & ROADWAY
IMPROVEMENTS

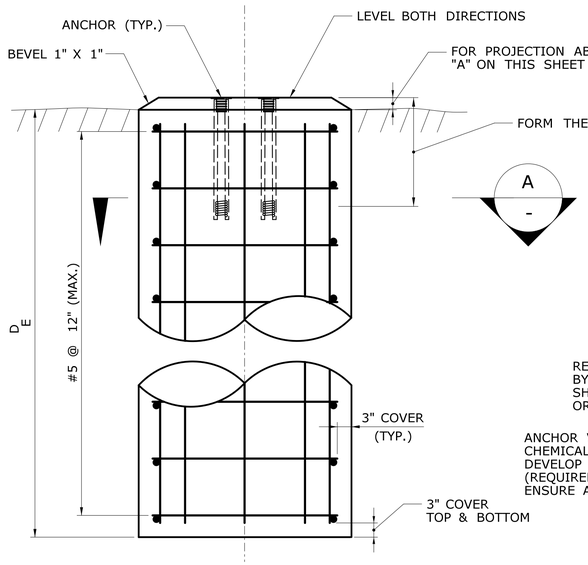
TOWN: NEW LONDON

DRAWING TITLE:
BREAKAWAY SIGN INDEX OF DRAWINGS

PROJECT NO. L094-0002

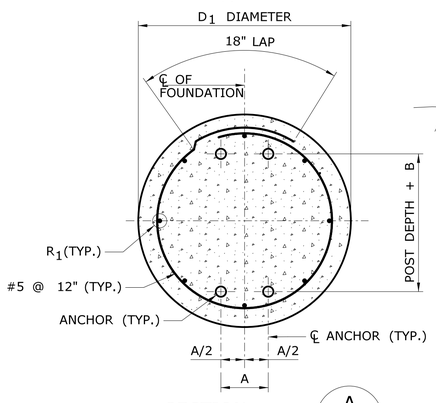
DRAWING NO. **BSM-1**

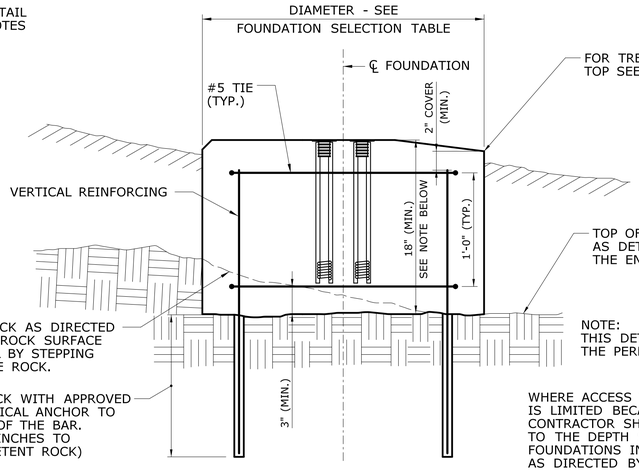
SHEET NO.



TYPICAL SECTION SIGN SUPPORT FOUNDATION IN EARTH

SCALE: $\frac{3}{4}$" = 1'-0"



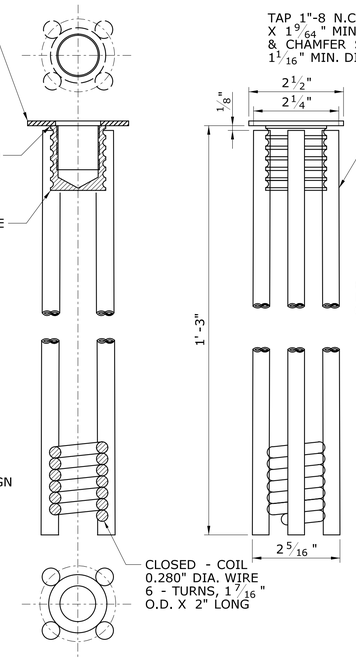


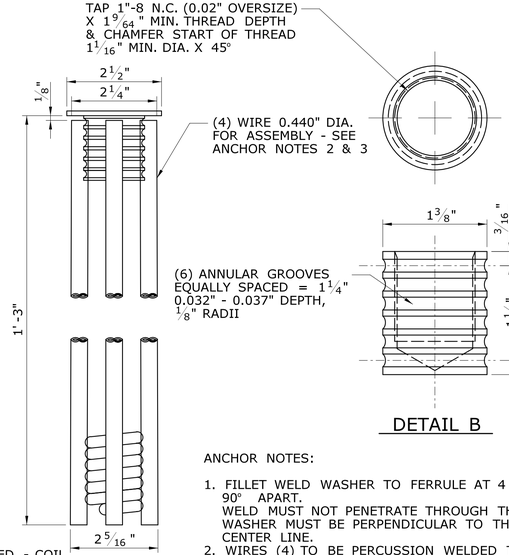
NOTE:
THIS DETAIL MAY BE USED ONLY WITH THE PERMISSION OF THE ENGINEER.

WHERE ACCESS TO THE BOTTOM OF THE HOLE IS LIMITED BECAUSE OF DEPTH TO ROCK, THE CONTRACTOR SHALL CREATE A ROCK SOCKET TO THE DEPTH SPECIFIED ON THE PLANS FOR FOUNDATIONS IN EARTH OR RELOCATE THE SIGN AS DIRECTED BY THE ENGINEER

TYPICAL SECTION SIGN SUPPORT FOUNDATION IN ROCK

SCALE: $1\frac{1}{2}$" = 1'-0"

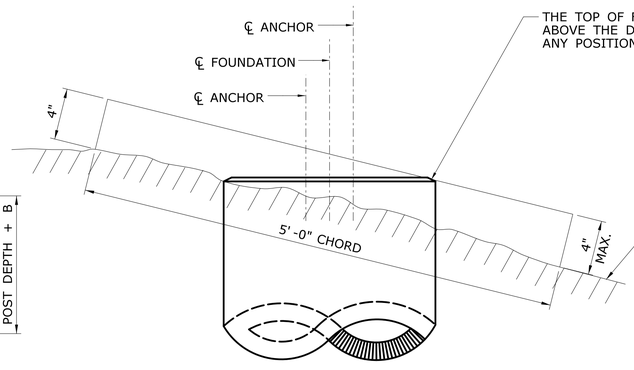




DETAIL B

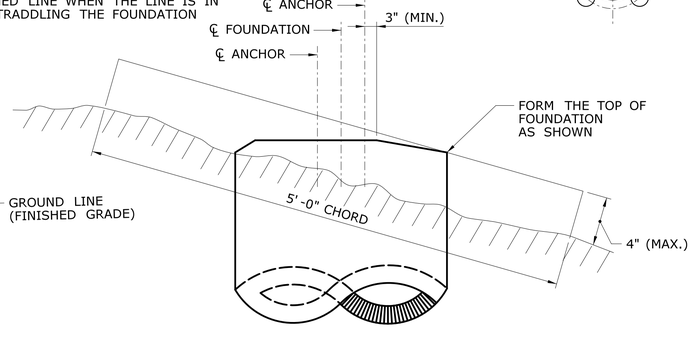
ANCHOR NOTES:

1. FILLET WELD WASHER TO FERRULE AT 4 PLACES 90° APART. WELD MUST NOT PENETRATE THROUGH THE WASHER. WASHER MUST BE PERPENDICULAR TO THE FERRULE CENTER LINE.
2. WIRES (4) TO BE PERCUSSION WELDED TO FERRULE AND TO THE CLOSED COIL.
3. WELD MUST NOT PENETRATE TO FERRULE INTERIOR THREADS.
4. WIRE TO BE DRAWN PER ASTM A510.
5. CHEMICAL & PHYSICAL CERTIFICATION SHOULD ACCOMPANY THE MATERIAL.
6. CERTIFICATION SHOULD EXPLICITLY INDICATE THE MATERIAL TO BE DOMESTIC.
7. TOLERANCES ON DECIMAL DIMENSIONS SHALL BE ± 0.004". ALL OTHER TOLERANCES SHALL BE ± 0.04", EXCEPT AS NOTED.



STANDARD FOUNDATION TOP

THE TOP OF FOUNDATION SHALL NOT PROJECT ABOVE THE DASHED LINE WHEN THE LINE IS IN ANY POSITION STRADDLING THE FOUNDATION



MODIFIED FOUNDATION TOP
(SEE FOUNDATION NOTE 3)

DETAIL A - PROJECTION OF FOUNDATION ABOVE GROUND

FOUNDATION NOTES

1. DETAIL A ILLUSTRATES THE METHOD USED TO MEASURE THE PROJECTION OF THE FOUNDATION ABOVE FINISHED GRADE. IT IS IMPORTANT THAT THE TOP OF THE FOUNDATION BE PLACED IN ACCORDANCE WITH THIS DETAIL.
2. THE TOP OF FOUNDATION SHALL BE CONSTRUCTED AS CLOSE TO THE FINISHED GRADE AS POSSIBLE, BUT SHOULD NOT BE COVERED BY SOIL.
3. USE A MODIFIED TOP WHERE PROJECTION LIMITS CANNOT BE MET WITH THE STANDARD TOP.
4. FOUNDATIONS SHALL BE PLACED AGAINST UNDISTURBED SOIL. WHERE ROCK IS ENCOUNTERED, THE CONTRACTOR MAY USE THE "SIGN SUPPORT FOUNDATION IN ROCK" DETAIL SHOWN ON THIS SHEET WITH THE PERMISSION OF THE ENGINEER.
5. IF UNSUITABLE SOIL IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER SHALL BE NOTIFIED. AN ALTERNATE FOUNDATION DESIGN MAY BE SUPPLIED BY THE ENGINEER, OR THE SIGN MAY BE RELOCATED.
6. PLACEMENT OF FOUNDATIONS SHALL BE IN ACCORDANCE WITH "SIGN SUPPORT PLACEMENT DETAILS" ON THIS SHEET.
7. WHERE FOUNDATIONS ARE PLACED ON SLOPES STEEPER THAN 1V : 6H, GRADE AROUND THE FOUNDATIONS IN CONFORMANCE WITH DETAIL A.

SELECTING A FOUNDATION:

ENTER THE "FOUNDATION SELECTION TABLE" WITH THE POST SIZE AND BRACKET NO. SELECTED FROM THE "POST SELECTION TABLE 1 OR 2" ON DWG BSM-3 OR DWG BSM-4. READ HORIZONTALLY ACROSS THE TABLE THE CORRESPONDING VALUES OF FOUNDATION DIAMETER, EMBEDMENT DEPTH, REINFORCING BAR SIZE, ANCHOR SPACING AND DIMENSION "B".

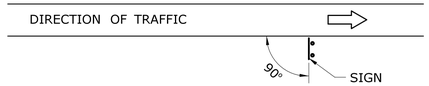
FOUNDATION SELECTION TABLE FOR BREAKAWAY SIGNS

POST SIZE	DIAMETER D_I (FT.)	DEPTH D_E (FT.)	REINF. STEEL R_I	ANCHOR SPACING A (IN.)	B (IN.) BRACKET NO. 1	2	3
W6 W8	2.5	8	8 - #5	3	$7\frac{15}{16}$	$8\frac{1}{16}$	$8\frac{1}{8}$
W10 W12	2.5	8	8 - #5	4	$7\frac{15}{16}$	$8\frac{1}{16}$	$8\frac{1}{8}$
W14 W16 W18 W21	3.25	8	8 - #6	4	$7\frac{15}{16}$	$8\frac{1}{16}$	$8\frac{1}{8}$

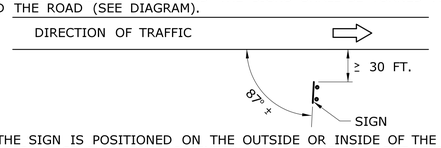
ERECTION NOTE

FOR MAXIMUM EFFECTIVENESS, POSITION SIDE MOUNTED SIGNS AS FOLLOWS:

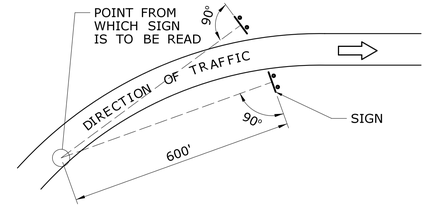
A. FOR SIGNS LOCATED LESS THAN 30 FT. FROM EDGE OF ROAD ON TANGENT SECTION, POSITION THE SIGN SUCH THAT THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH THE TRAFFIC LANE THAT THE SIGN SERVES.



B. FOR SIGNS LOCATED 30 FT. OR MORE FROM EDGE OF ROAD ON TANGENT SECTION, THE VERTICAL AXIS SHALL BE PLUMB AND THE SIGNS SHALL BE TURNED APPROXIMATELY 3° TOWARD THE ROAD (SEE DIAGRAM).



C. WHERE THE SIGN IS POSITIONED ON THE OUTSIDE OR INSIDE OF THE HORIZONTAL CURVE, THE SIGN FACE SHOULD BE ORIENTED 90° TO THE STRAIGHT LINE BETWEEN THE SIGN AND THE POINT FROM WHICH THE SIGN IS TO BE READ AT THE DISTANCE SHOWN.



SIGN SUPPORT PLACEMENT DETAILS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
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-	-	-	-
-	-	-	-

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Plotted Date: 6/24/2019

DESIGNER/DRAFTER: Anders Carlton
CHECKED BY: Jason LeDoux, PE
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_Breakaway_Signpost_BSM5_FoundationDet.dgn

SIGNATURE/ BLOCK:

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

PROJECT TITLE:
JEFFERSON AVE. AT CHESTER STREET
ROUNDABOUT & ROADWAY
IMPROVEMENTS

TOWN: NEW LONDON

DRAWING TITLE:
BREAKAWAY SIGN SUPPORTS FOUNDATION DETAILS

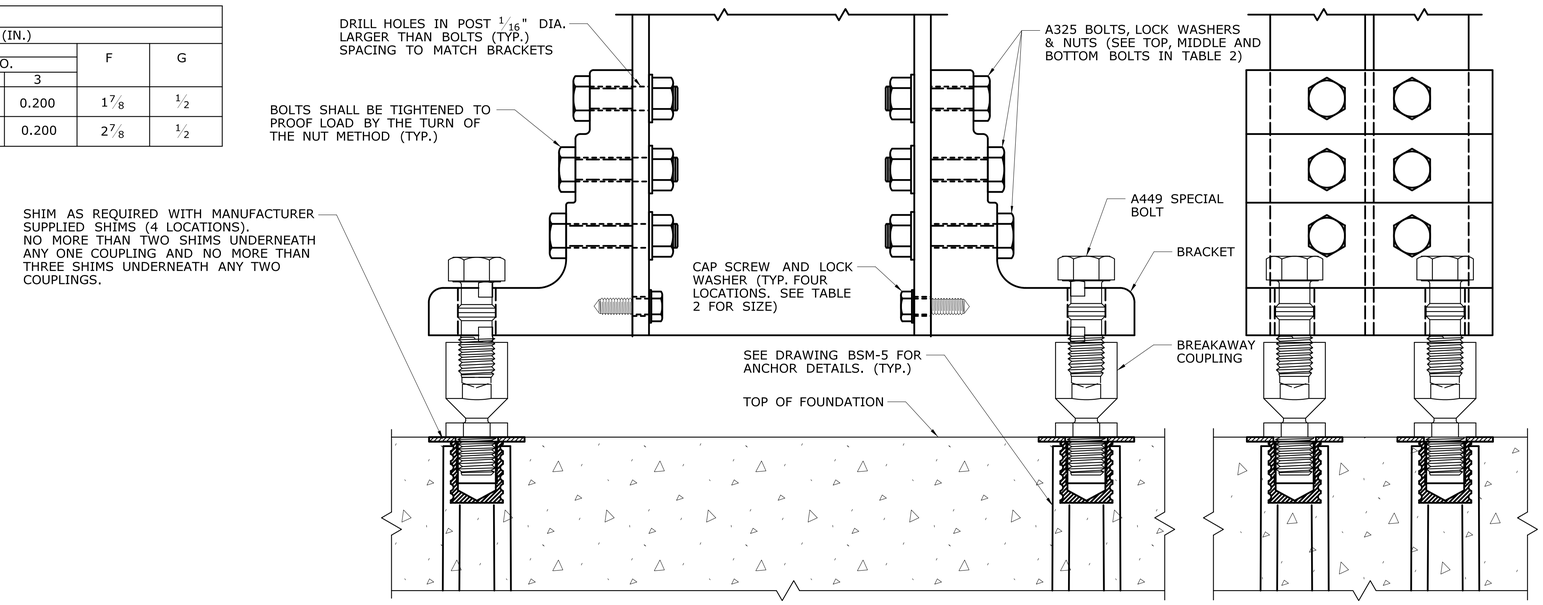
PROJECT NO. L094-0002
DRAWING NO. **BSM-5**
SHEET NO.

TABLE 1 - BRACKET DATA

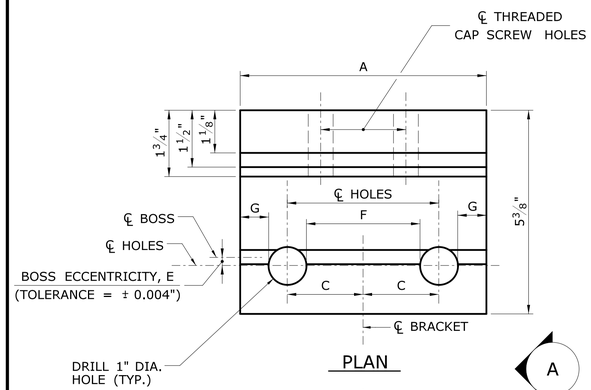
POST SIZE	BRACKET TYPE	BRACKET WEIGHT (LBS)	DIMENSIONS (IN.)			HOLE DIAMETERS (IN.)			DIMENSIONS (IN.)				
									E			F	G
									BRACKET NO.				
			A	B	C	D1	D2	D3	1	2	3		
W6, W8	B525	7 5/8	5 1/4	1 1/8	1 1/2	17/32	7/16	1/2" -13 UNC 1A	0.100	0.150	0.200	1 7/8	1/2
ALL OTHERS	B650	9 1/2	6 1/2	1 1/8	2	21/32	17/32	5/8"-11 UNC 1A	0.100	0.150	0.200	2 7/8	1/2

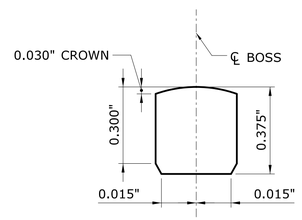
TABLE 2 - BRACKET BOLTS

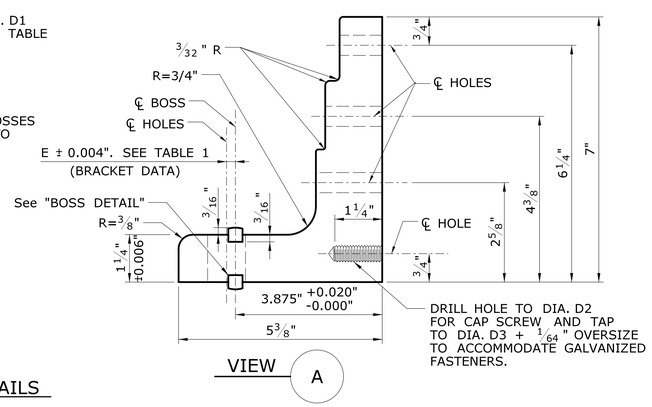
POST SIZE	BRACKET TYPE	BOLT AND CAP SCREW DIAMETER	BOLT LENGTH			CAP SCREW LENGTH	THREAD DESIGNATION (U.S. CUSTOMARY UNITS)	
			TOP	MIDDLE	BOTTOM		BOLT	CAP SCREW
W6, W8	B525	1/2	2 1/2	2 3/4	3	1 1/4	13 UNC	13 UNC
ALL OTHERS	B650	5/8	2 3/4	3	3 1/4	1 1/4	11 UNC	11 UNC



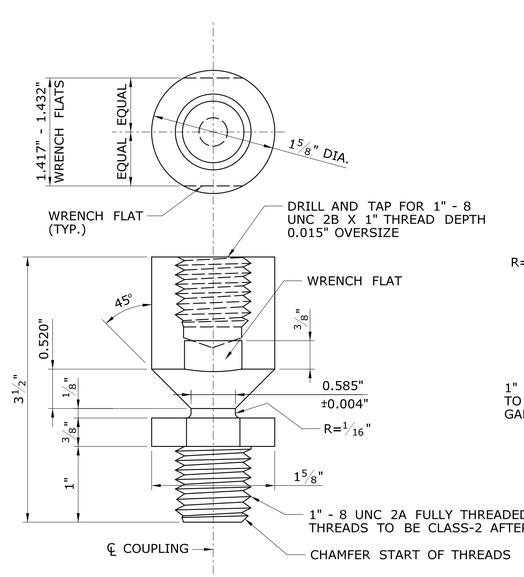
BRACKET ASSEMBLY DETAILS

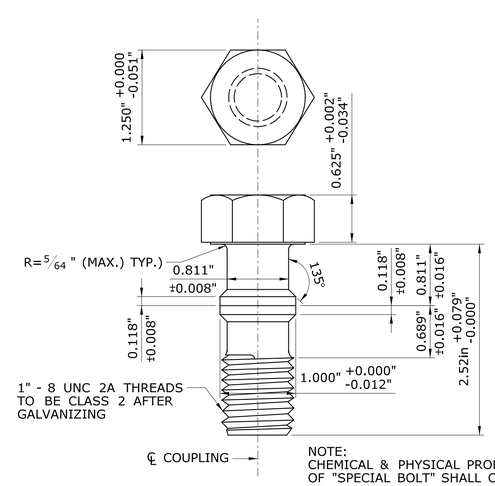






BRACKET DETAILS
HALF SCALE





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
-	-	-	-
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DESIGNER/DRAFTER: Anders Carlton
CHECKED BY: **Jason LeDoux, PE**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ..\SB_Breakaway_Signpost_BSM6_BracketDet.dgn

SIGNATURE/ BLOCK:

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JEFFERSON AVE. AT CHESTER STREET
ROUNDABOUT & ROADWAY
IMPROVEMENTS

TOWN: NEW LONDON

DRAWING TITLE:
BREAKAWAY SIGN SUPPORTS BRACKET DETAILS

PROJECT NO. L094-0002
DRAWING NO. **BSM-6**
SHEET NO.