# TOWN OF TRUMBULL

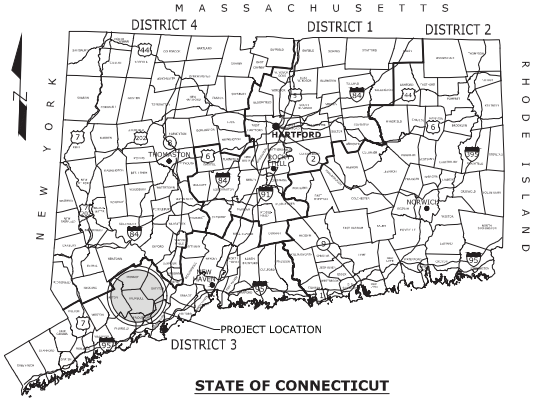
*Plans for*

## PEQUONNOCK RIVER TRAIL

**SECTION A2**

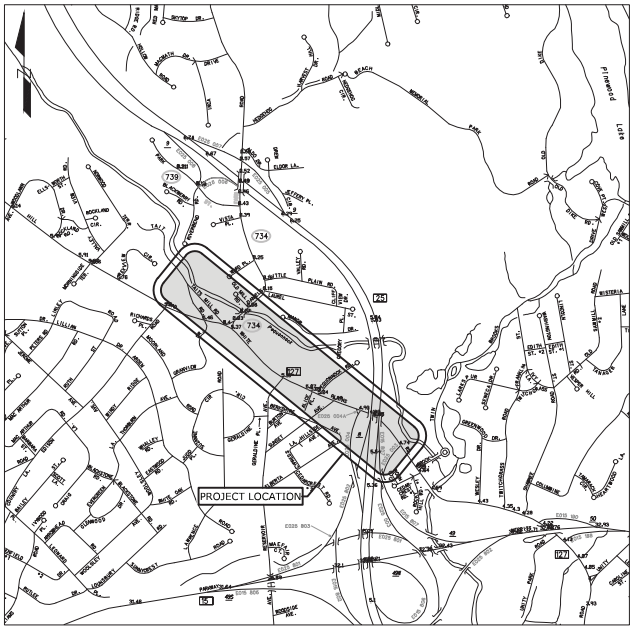
*Town of*

## TRUMBULL




**STATE OF CONNECTICUT**

| TRAIL | MAINTENANCE RESPONSIBILITY | LENGTH |
|---|---|---|
| PEQUONNOCK RIVER TRAIL SECTION A2 | TOWN | 4,087 FEET |




**LOCATION PLAN**
NOT TO SCALE

**GENERAL NOTES:**

1. FEDERAL AID PROJECT NO. H163(002)
2. CONSTRUCTION SPECIFICATIONS:
   Connecticut Department of Transportation, Standard Specifications for Roads, Bridges, Facilities and Incidental Construction, Form 817, dated 2016; Supplemental Specifications, dated January 2018; and Special Provisions
3. NORTH ARROW AND BEARINGS ARE BASED ON CT GRID SYSTEM NAD 83.
4. VERTICAL DATUM BASED ON NAVD 88.
5. THE SURVEY INFORMATION COMPILED ON THE PLANS WAS PREPARED BY MARTINEZ & COUCH ASSOCIATES, DATE: 4-11-2017.

**LIST OF SUBSETS**

| SUBSET NO. | SUBSET TITLE | *SUBSET SHEET COUNT |
|---|---|---|
| 01 | GENERAL | 3 |
| 02 | INDEX PLAN | 1 |
| 03 | TYPICAL SECTION | 1 |
| 04 | ALIGNMENT PLAN | 7 |
| 05 | TRAIL PLAN | 7 |
| 06 | TRAFFIC PLAN | 1 |
| 07 | CROSS SECTIONS | 13 |
| 08 | LANDSCAPING PLAN | 7 |
| 09 | DETAILS & GUIDE SHEETS | 12 |
| | HIGHWAY STANDARD SHEETS | - |
| | TRAFFIC STANDARD SHEETS | - |

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

**LIST OF DRAWINGS**
**SUBSET 01 - GENERAL**

| DRAWING TITLE | DRAWING NO. |
|---|---|
| TITLE SHEET | G-01 |
| DETAILED ESTIMATE SHEET - 1 | G-02 |
| DETAILED ESTIMATE SHEET - 2 | G-03 |

SUBMITTED BY: _____
WILLIAM MAURER, P.E.
TOWN ENGINEER
DATE: _____

SUBMITTED BY: _____
VICKI A. TESORO,
FIRST SELECTMAN
DATE: _____

DESIGNED BY: STANTEC
KENT GANNON, P.E.
CONNECTICUT P.E. No.: 27452

DATE:

*Plans For*
PEQUONNOCK RIVER TRAIL
SECTION A2

*Town of*
TRUMBULL

PROJECT NO. **144-192**

DRAWING NO. **G-01**

SHEET NO. **01.01**

## HIGHWAY ITEMS

| ITEM NUMBER | 0201001A | 0201042A | 0201501A | 0202009 | 0202100 | 0202451A | 0202503 | 0202512 | 0202522 | 0202529 | 0202539A | 0209001 | 0286001.11 | 0210001 | 0212000 | 0219001 | 0218911 | 0304002 | 0406002 | 0406170 | 0406171 | 0406172 | 0406236 | 0406275A | 0406993A | 0586001.10 | 0586000 | 0586650 | 0586720 | 0586760 | 0686000.15 | 0811001 | 0815091 | 0815001 | 0906202A | 0906204A | 0921001 | 0921005 | 0921014A | 0921039 | 0922001 | 0922500 | 0922501 | 0922502 | 0924002 | 0944000 | 0947207A | 0949000 | 0949003A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ITEM | CLEARING AND GRUBBING | RESET LANDSCAPING IRRIGATION SYSTEM | RESET MAILBOX | EARTH EXCAVATION | ROCK EXCAVATION | TEST PIT EXCAVATION | REMOVAL OF CONCRETE CURBING | CUT CONCRETE SIDEWALK | REMOVAL OF BITUMINOUS TYPE PAVEMENT | CUT BITUMINOUS CONCRETE PAVEMENT | REMOVE AND RESET SURVEY MONUMENT | FORMATION OF SUBGRADE | ROCK IN DRAINAGE TRENCH EXCAVATION 0'-10' DEEP | ANTI-TRACKING PAD | SUBBASE | SEDIMENTATION CONTROL SYSTEM | SEDIMENT CONTROL SYSTEM AT CATCH BASIN | PROCESSED AGGREGATE BASE | TEMPORARY PAVEMENT | HMA S1 | HMA S0.5 | HMA S0.375 | MATERIAL FOR TACK COAT | FINE MILLING OF BITUMINOUS CONCRETE (0" TO 4") | BITUMINOUS CONCRETE PAVEMENT COLORING AND STAMPING | TYPE 'C' CATCH BASIN - 0' - 10' DEEP | RESET CATCH BASIN | RESET MANHOLE | TYPE 'C' CATCH BASIN TOP | TYPE 'C-U' CATCH BASIN TOP | 15" R.C. PIPE - 0' - 10' DEEP | CONCRETE CURBING | REMOVAL OF BITUMINOUS CONCRETE LIP CURBING | BITUMINOUS CONCRETE LIP CURBING | WOOD FENCE | THREE RAIL WOOD FENCE | CONCRETE SIDEWALK | CONCRETE SIDEWALK RAMP | CONCRETE PAVING BRICK | DETECTABLE WARNING STRIP | BITUMINOUS CONCRETE SIDEWALK | BITUMINOUS CONCRETE DRIVEWAY (COMMERCIAL) | BITUMINOUS CONCRETE DRIVEWAY | CONCRETE DRIVEWAY RAMP | FURNISHING AND PLACING TOPSOIL | BICYCLE STAND | WOOD CHIP MULCH | FURNISHING, PLANTING AND MULCHING TREES, SHRUBS, VINES AND GROUND COVER PLANTS |
| UNIT | LS | LS | EA. | C.Y. | C.Y. | C.Y. | L.F. | L.F. | S.Y. | L.F. | EA. | S.Y. | C.Y. | S.Y. | C.Y. | L.F. | EA. | C.Y. | S.Y. | TON | TON | TON | GAL | S.Y. | S.F. | EA. | EA. | EA. | EA. | EA. | L.F. | L.F. | L.F. | L.F. | L.F. | L.F. | S.F. | S.F. | S.F. | EA. | S.Y. | S.Y. | S.Y. | C.Y. | S.Y. | EA. | S.Y. | LS |
| PROJECT: 144-192 BASE BID | LS | LS | 2 | 235 | 10 | 35 | 1140 | 15 | 60 | 2168 | 1 | 3350 | 2 | 170 | 180 | 2450 | 18 | 25 | 20 | 90 | 89 | 266 | 200 | 2210 | 1850 | 1 | 12 | 2 | 10 | 2 | 30 | 1335 | 1450 | 1450 | 318 | 160 | 6900 | 1000 | 2550 | 15 | 1580 | 35 | 75 | 30 | 1250 | 3 | 465 | LS |
| SUBTOTAL | LS | LS | 2 | 235 | 10 | 35 | 1140 | 15 | 60 | 2168 | 1 | 3350 | 2 | 170 | 180 | 2450 | 18 | 25 | 20 | 90 | 89 | 266 | 200 | 2210 | 1850 | 1 | 12 | 2 | 10 | 2 | 30 | 1335 | 1450 | 1450 | 318 | 160 | 6900 | 1000 | 2550 | 15 | 1580 | 35 | 75 | 30 | 1250 | 3 | 465 | LS |
| UNASSIGNED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | LS | LS | 2 | 235 | 10 | 35 | 1140 | 15 | 60 | 2168 | 1 | 3350 | 2 | 170 | 180 | 2450 | 18 | 25 | 20 | 90 | 89 | 266 | 200 | 2210 | 1850 | 1 | 12 | 2 | 10 | 2 | 30 | 1335 | 1450 | 1450 | 318 | 160 | 6900 | 1000 | 2550 | 15 | 1580 | 35 | 75 | 30 | 1250 | 3 | 465 | LS |

## HIGHWAY ITEMS

| ITEM NUMBER | 0949111A | 0949432 | 0950019A | 0969868A | 0970007 | 0971001A | 0975004 | 0976002 | 0977001 | 0978002 | 0979003 | 0980001 | 0992090A | 1002203 | 1008115 | 1008215 | 1008988A | 1010021 | 1010054 | 1010060 | 1102002 | 1102013 | 1106003A | 1106044A | 1107011A | 1108163A | 1113103 | 1113104 | 1116100A | 1118012A | 1205201 | 1206023A | 1208931 | 1208932 | 1210101 | 1210102 | 1210105 | 1211001 | 1220027 | 1302047A | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ITEM | PROTECTIVE FENCING | ROOT PRUNING | TURF ESTABLISHMENT - LAWN | CONSTRUCTION FIELD OFFICE, SMALL | TRAFFICPERSON (UNIFORMED FLAGGER) | MAINTENANCE AND PROTECTION OF TRAFFIC | MOBILIZATION AND PROJECT CLOSEOUT | BARRICADE WARNING LIGHTS - HIGH INTENSITY | TRAFFIC CONE | TRAFFIC DRUM | CONSTRUCTION BARRICADE TYPE III | CONSTRUCTION STAKING | BENCH | TRAFFIC CONTROL FOUNDATION-PEDESTAL TYPE I | 2" RIGID METAL CONDUIT IN TRENCH | 2" RIGID METAL CONDUIT UNDER ROADWAY | CLEAN EXISTING CONDUIT | CONCRETE HANDHOLE - TYPE II | CAST IRON HANDHOLE COVER, TYPE II | CLEAN EXISTING CONCRETE HANDHOLE | 8" ALUMINUM PEDESTAL | MODIFY EXISTING PEDESTALS | 1 WAY PEDESTRIAN SIGNAL PEDESTAL MOUNTED | 2 WAY PEDESTRIAN SIGNAL PEDESTAL MOUNTED | ACCESSIBLE PEDESTRIAN SIGNAL AND DETECTOR(TYPE A) | MODIFY EXISTING CONTROLLER | 7 CONDUCTOR NO. 14 CABLE | 9 CONDUCTOR NO. 14 CABLE | INTERNALLY ILLUMINATED SIGN (LED) | REMOVAL AND/OR RELOCATION OF TRAFFIC SIGNAL EQUIPMENT | TYPE DE-1 DELINEATOR | REMOVAL AND RELOCATION OF EXISTING SIGNS | SIGN FACE - SHEET ALUMINUM (TYPE III RETROREFLECTIVE SHEETING) | SIGN FACE - SHEET ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING) | 4" WHITE EPOXY RESIN PAVEMENT MARKINGS | 4" YELLOW EPOXY RESIN PAVEMENT MARKINGS | EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS AND LEGENDS | REMOVAL OF PAVEMENT MARKINGS | CONSTRUCTION SIGNS | RESET GATE BOXES | | | | | | | | | |
| UNIT | L.F. | L.F. | S.Y. | MO. | HR | LS | LS | DAY | EA. | EA. | EA. | LS | EA. | EA. | L.F. | L.F. | L.F. | EA. | EA. | EA. | EA. | EA. | EA. | EA. | EA. | EA. | L.F. | L.F. | EA. | LS | EA. | LS | S.F. | S.F. | L.F. | L.F. | S.F. | S.F. | S.F. | EA. | | | | | | | | | |
| PROJECT: 144-192 BASE BID | 100 | 750 | 1250 | 8 | 780 | LS | LS | 960 | 100 | 25 | 4 | LS | 2 | 3 | 35 | 56 | 235 | 2 | 2 | 4 | 3 | 2 | 4 | 1 | 5 | 1 | 514 | 306 | 2 | LS | 1 | LS | 25 | 54 | 1440 | 840 | 1010 | 550 | 400 | 3 | | | | | | | | | |
| SUBTOTAL | 100 | 750 | 1250 | 8 | 780 | LS | LS | 960 | 100 | 25 | 4 | LS | 2 | 3 | 35 | 56 | 235 | 2 | 2 | 4 | 3 | 2 | 4 | 1 | 5 | 1 | 514 | 306 | 2 | LS | 1 | LS | 25 | 54 | 1440 | 840 | 1010 | 550 | 400 | 3 | | | | | | | | | |
| UNASSIGNED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 100 | 750 | 1250 | 8 | 780 | LS | LS | 960 | 100 | 25 | 4 | LS | 2 | 3 | 35 | 56 | 235 | 2 | 2 | 4 | 3 | 2 | 4 | 1 | 5 | 1 | 514 | 306 | 2 | LS | 1 | LS | 25 | 54 | 1440 | 840 | 1010 | 550 | 400 | 3 | | | | | | | | | |

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|
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| - | - | - | - |
| - | - | - | - |

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE TOWN AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: March 19, 2019

Stantec Project No.: 192310402

DESIGNER/DRAFTER: KPG

CHECKED BY: PJK

**TOWN OF TRUMBULL CONNECTICUT**

Filename: U:\192310402\drawing\plot sheets\02_01.02-01.03 DETAILED ESTIMATE SHEET.dwg


Stantec

Stantec Consulting Services Inc.
55 Church Street, Suite 601
New Haven CT 06510
Tel. 203.495.1645
Fax. 203.495.1652
www.stantec.com


PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**

DRAWING TITLE: **DETAILED ESTIMATE SHEET - BASE BID**

PROJECT NO. **144-192**

DRAWING NO. **G-02**

SHEET NO. **01.02**

TRAFFIC ITEMS

| ITEM NUMBER | 1002103 | 1008115 | 1008215 | 1008908A | 1010021 | 1010054 | 1010060 | 1102002 | 1102013 | 1106003A | 1106008A | 1107011A | 1108163A | 1113103 | 1113104 | 1118012A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ITEM | TRAFFIC CONTROL FOUNDATION-PEDESTAL-TYPE I | 2" RIGID METAL CONDUIT IN TRENCH | 2" RIGID METAL CONDUIT UNDER ROADWAY | CLEAN EXISTING CONDUIT | CONCRETE HANDHOLE - TYPE II | CAST IRON HANDHOLE COVER, TYPE II | CLEAN EXISTING CONCRETE HANDHOLE | 8' ALUMINUM PEDESTAL | MODIFY EXISTING PEDESTALS | 1 WAY PEDESTRIAN SIGNAL PEDESTAL MOUNTED | 2 WAY PEDESTRIAN SIGNAL PEDESTAL MOUNTED | ACCESSIBLE PEDESTRIAN SIGNAL AND DETECTOR(TYPE A) | MODIFY EXISTING CONTROLLER | 7 CONDUCTOR NO. 14 CABLE | 9 CONDUCTOR NO. 14 CABLE | REMOVAL AND/OR RELOCATION OF TRAFFIC SIGNAL EQUIPMENT |
| UNIT | EA. | L.F. | L.F. | L.F. | EA. | EA. | EA. | EA. | EA. | EA. | EA. | EA. | EA. | L.F. | L.F. | LS |
| PROJECT: 144-192 INTERSECTION 144- | 3 | 35 | 56 | 235 | 2 | 2 | 4 | 3 | 2 | 4 | 1 | 5 | 1 | 514 | 306 | LS |
| SUBTOTAL | 3 | 35 | 56 | 235 | 2 | 2 | 4 | 3 | 2 | 4 | 1 | 5 | 1 | 514 | 306 | LS |
| UNASSIGNED | | | | | | | | | | | | | | | | |
| TOTAL | 3 | 35 | 56 | 235 | 2 | 2 | 4 | 3 | 2 | 4 | 1 | 5 | 1 | 514 | 306 | LS |

ALTERNATE NO. 1

| ITEM NUMBER | 0202539 | 0212000 | 0406170 | 0406171 | 0811001 | 0815001 | 0921001 | 0922001 |
|---|---|---|---|---|---|---|---|---|
| ITEM | CUT BITUMINOUS CONCRETE PAVEMENT | SUBBASE | HMA S1 | HMA S0.5 | CONCRETE CURBING | BITUMINOUS CONCRETE LIP CURBING | CONCRETE SIDEWALK | BITUMINOUS CONCRETE SIDEWALK |
| UNIT | L.F. | C.Y. | TON | TON | L.F. | L.F. | S.F. | S.Y. |
| PROJECT: 144-192 ALTERNATE NO. 1 | 1352 | 100 | 88 | 70 | 1350 | -1355 | 13700 | -1580 |
| SUBTOTAL | 1352 | 100 | 88 | 70 | 1350 | -1355 | 13700 | -1580 |
| UNASSIGNED | | | | | | | | |
| TOTAL | 1352 | 100 | 88 | 70 | 1350 | -1355 | 13700 | -1580 |

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|
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| - | - | - | - |

Plotted Date: ----

Stantec Project No.: 192310402

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE TOWN AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER: KPG

CHECKED BY: PJK

**TOWN OF TRUMBULL CONNECTICUT**

Filename: U:\192310402\drawing\plot sheets\02_01.02-01.03 DETAILED ESTIMATE SHEET.dwg

Stantec
Stantec Consulting Services Inc.
55 Church Street, Suite 601
New Haven CT 06510
Tel. 203.495.1645
Fax. 203.495.1652
www.stantec.com

PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

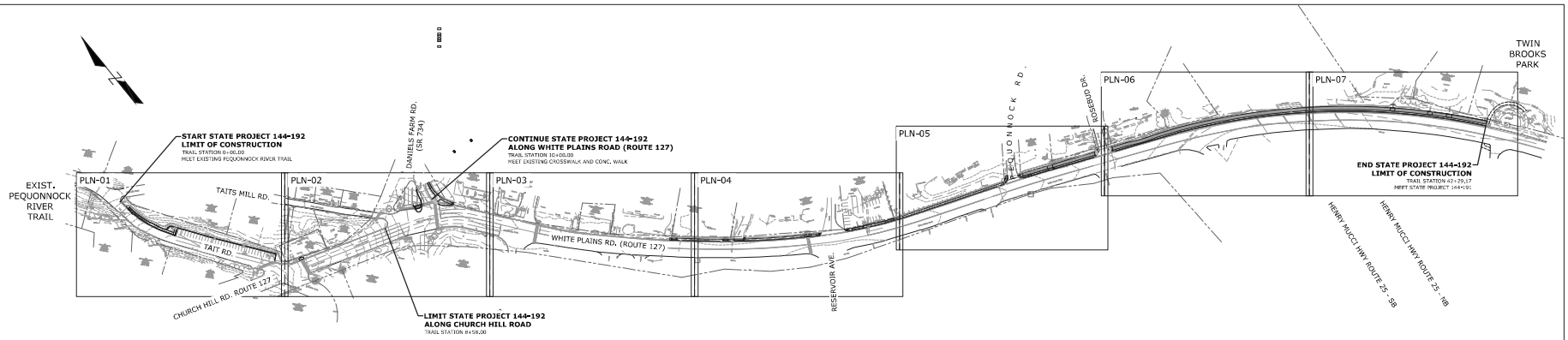
TOWN: **TRUMBULL**

DRAWING TITLE: **DETAILED ESTIMATE SHEET TRAFFIC & BID ALT. 1**

PROJECT NO. **144-192**

DRAWING NO. **G-03**

SHEET NO. **01.03**




## INDEX PLAN

SCALE: 1"=150'

## GENERAL NOTES:

1. THE SURVEY INFORMATION COMPILED ON THE PLANS WAS PREPARED BY MARTINEZ & COUCH ASSOCIATES, DATE: 4-11-2017.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING UTILITIES AS DESCRIBED IN THE NOTICE TO CONTRACTOR - PROTECTION OF EXISTING UTILITIES. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF THE UTILITIES SHOWN ON THE PLANS.
3. UNLESS NOTED OTHERWISE, ALL DISTURBED AREAS SHALL BE RESTORED WITH A MINIMUM OF 4" TOPSOIL AND SEEDED.
4. FLOODPLAIN ELEVATIONS DEPICTED ARE APPROXIMATE AND ARE BASED ON THE FEMA FIRM ELEVATIONS AS SHOWN ON MAP NUMBER 09001C0427F DATED JUNE 18, 2010.
5. BASELINE INFORMATION ON THE PLANS WAS DETERMINED FROM A LINE OF BEST FIT ALONG EITHER AN OFFSET FROM THE ROADWAY CENTERLINE (TAIT ROAD) OR AN EXISTING CURB LINE (WHITE PLAINS ROAD), AS SURVEYED. THE CONTRACTOR SHALL ALERT THE ENGINEER OF ANY MAJOR DISCREPANCIES BETWEEN THE DEVELOPED BASELINE AND EXISTING CURB LOCATIONS ALONG WHITE PLAINS ROAD WHEN LAYING OUT PROPOSED IMPROVEMENTS.
6. SEDIMENT AND EROSION CONTROL MEASURES AS SHOWN ON THESE PLANS SHALL BE MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - REVISED 2002". THE CONTRACTOR SHALL ALSO BE REQUIRED TO PROTECT THE ENVIRONMENT ACCORDING TO THE "BEST MANAGEMENT" PRACTICES OF THE STANDARD SPECIFICATIONS.
7. THE CONTRACTOR SHALL BE AWARE OF THE WORK WHICH IS TO BE PERFORMED ON OR ADJACENT TO PRIVATE PROPERTY AND SHALL FAMILIARIZE HIMSELF WITH ANY EASEMENTS OR RIGHTS ESTABLISHED FOR THE PURPOSES OF CONSTRUCTION.
8. THE CONTRACTOR SHALL PROTECT TRAFFIC OPERATIONS AT ALL DRIVEWAYS AND MAINTAIN PEDESTRIAN SIDEWALK ACCESS AT ALL TIMES. SEE NOTICE TO CONTRACTOR - SAFEGUARDING OF RESIDENCES AND PEDESTRIANS FOR FURTHER INFORMATION AND DIRECTION.
9. PAYMENT FOR THE 10 FOOT WIDE SHARED-USE PATHWAY SECTION SHALL BE AS FOLLOWS:
   **BASE BID:** ITEM 0922001 - BITUMINOUS CONCRETE SIDEWALK
   **ALTERNATE #1**: ITEM 0921001 - CONCRETE SIDEWALK
10. ROOTS SHALL BE PRUNED OUTSIDE OF THE LIMITS OF GRADING, PRIOR TO CLEARING AND GRUBBING OF THE MULTI-USE TRAIL, AS DIRECTED BY THE ENGINEER.

## SIGNING AND PAVEMENT MARKING NOTES:

1. ALL EXISTING SIGNS WITHIN THE PROJECT LIMIT ARE TO REMAIN UNLESS OTHERWISE SPECIFIED. EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED WORK SHALL BE RELOCATED ONTO NEW POSTS. THIS WORK WILL BE PAID FOR UNDER ITEM #1206023A "REMOVAL AND RELOCATION OF EXISTING SIGNS".
2. INSTALL SIGNS AND METAL SIGN POSTS IN ACCORDANCE WITH TRAFFIC STANDARD SHEETS TR-1208_01 "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS" AND TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS.
3. EXACT LOCATIONS OF SIGNS TO BE VERIFIED BY ENGINEER.
4. SIGNS SHALL BE AT LEAST 10-FEET FROM ALL UTILITY POLES.
5. ALL PAVEMENT MARKINGS TO BE EPOXY RESIN.
6. ALL PAVEMENT MARKINGS TO BE INSTALLED IN ACCORDANCE WITH STANDARD SHEET TR-1210_04 "PAVEMENT MARKING LINES AND SYMBOLS", TR-1210_08 "PAVEMENT MARKINGS FOR NON FREEWAYS" AND TR-1210_09 "PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS AND RAILROAD GRADE CROSSINGS".
7. ALL SIGNS AND PAVEMENT MARKINGS FOR THE MULTI-USE TRAIL TO BE MAINTAINED BY THE TOWN.
8. SIGNS TO BE INSTALLED ON THE MULTI-USE TRAIL TO BE MOUNTED ON 4"X4" WOOD POSTS. SEE DETAIL FOR THE INSTALLATION OF WOOD POSTS AND SIGNS. THIS WORK TO BE PAID FOR UNDER THE APPROPRIATE SIGN FACE-SHEET ALUMINUM (TYPE) ITEM.

## UTILITY NOTES:

1. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AND THE ENGINEER PRIOR TO THE START OF WORK, AS STATED IN THE NOTICE TO CONTRACTOR - PROTECTION OF EXISTING UTILITIES. REPRESENTATIVES MUST BE ON SITE FOR ALL EXCAVATIONS NEAR THEIR RESPECTIVE UTILITIES.
2. CONTRACTOR SHALL HAND DIG AROUND EXISTING UTILITIES AS REQUIRED BY THE UTILITY COMPANIES AND APPLICABLE LAWS AND REGULATIONS.
3. ALL UTILITY MARKERS MUST NOT BE MOVED, HIT OR RELOCATED BY CONSTRUCTION ACTIVITIES. IF THE SITUATION REQUIRES RESETTING OF UTILITY MARKERS, IT SHALL BE PERFORMED UNDER PRESENCE AND SUPERVISION OF THE RESPECTIVE UTILITY. THERE WILL BE NO SEPARATE PAYMENT FOR THIS WORK.

## LEGEND

EXISTING CONTOURS — 100 —
PROPERTY LINE
EXISTING TREELINE
EXISTING TREE
EXISTING STONEWALL
SILT FENCE
IRON PIN
MONUMENT
DRILL HOLE
LIGHT POST
HYDRANT
SPOT LIGHT
TRAFFIC BOX
MAILBOX
SPAN POLE
POST
UTILITY POST
UTILITY POST/LIGHT
WATER VALVE
GAS VALVE
WATER METER
GAS METER
ELECTIC METER
GUY ANCHOR
SIGN
'CL' CB
'C' CB
UNKNOWN MANHOLE
SANITARY MANHOLE
STORM MANHOLE
ELECTRIC MANHOLE
TELEPHONE MANHOLE
HANDICAP RAMP
WALK SIGNAL
HAND HOLE
DECIDUOUS TREE
EVERGREEN TREE
SHRUB
TRANSFORMER
GENERATOR
CONTROL POINT
METAL FENCE LINE
WOOD/VINYL FENCE LINE
OVERHEAD UTILITY
ELECTRIC LINE (BURIED)
WATER LINE (BURIED)
TELEPHONE LINE (BURIED)
GAS LINE (BURIED)
SEWER LINE (BURIED)
DRAIN LINE (BURIED)
PROPERTY LINE
CONTOUR LINE
SPOT GRADE
HEDGE
DETECTABLE WARNING PAD

## SHEET LIST


| | | |
|---|---|---|
| INDEX PLAN | IND-01 | 02.01 |
| TYPICAL SECTIONS | TYP-01 | 03.01 |
| ALIGNMENT PLAN | ALN-01 | 04.01 |
| | ALN-02 | 04.02 |
| | ALN-03 | 04.03 |
| | ALN-04 | 04.04 |
| | ALN-05 | 04.05 |
| | ALN-06 | 04.06 |
| | ALN-07 | 04.07 |
| TRAIL PLAN | PLN-01 | 05.01 |
| | PLN-02 | 05.02 |
| | PLN-03 | 05.03 |
| | PLN-04 | 05.04 |
| | PLN-05 | 05.05 |
| | PLN-06 | 05.06 |
| | PLN-07 | 05.07 |
| TRAFFIC | TCS-01 | 6.01 |
| CROSS SECTIONS | XSC-01 | 07.01 |
| | XSC-02 | 07.02 |
| | XSC-03 | 07.03 |
| | XSC-04 | 07.04 |
| | XSC-05 | 07.05 |
| | XSC-06 | 07.06 |
| | XSC-07 | 07.07 |
| | XSC-08 | 07.08 |
| | XSC-09 | 07.09 |
| | XSC-10 | 07.10 |
| | XSC-11 | 07.11 |
| | XSC-12 | 07.12 |
| | XSC-13 | 07.13 |
| LANDSCAPING PLAN | LDS-01 | 08.01 |
| | LDS-02 | 08.02 |
| | LDS-03 | 08.03 |
| | LDS-04 | 08.04 |
| | LDS-05 | 08.05 |
| | LDS-06 | 08.06 |
| | LDS-07 | 08.07 |
| SITE DETAILS | D-01 | 09.01 |
| | D-02 | 09.02 |
| | D-03 | 09.03 |
| | D-04 | 09.04 (CONCRETE SIDEWALK RAMP) |
| | D-05 | 09.05 (CONCRETE SIDEWALK RAMP) |
| | D-06 | 09.06 (CONCRETE SIDEWALK RAMP) |
| | D-07 | 09.07 (CONCRETE SIDEWALK RAMP) |
| | D-08 | 09.08 (CONCRETE SIDEWALK RAMP) |
| | D-09 | 09.09 (CONCRETE SIDEWALK RAMP) |
| | D-10 | 09.10 (CONCRETE SIDEWALK RAMP) |
| | D-11 | 09.11 (CONCRETE SIDEWALK RAMP) |
| | D-12 | 09.12 (CONCRETE SIDEWALK RAMP) |
| | D-13 | 09.13 (CONCRETE SIDEWALK RAMP) |
| | D-14 | 09.14 (CONCRETE SIDEWALK RAMP) |


| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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Plotted Date: 3/18/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
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SCALE AS NOTED

**TOWN OF TRUMBULL CONNECTICUT**


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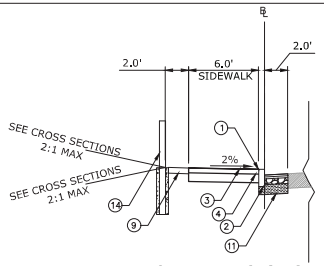

Filename: U:\192310402\drawing\plot sheets\03_02.01-02.01_IND_Index Plan_2019.dwg

PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**

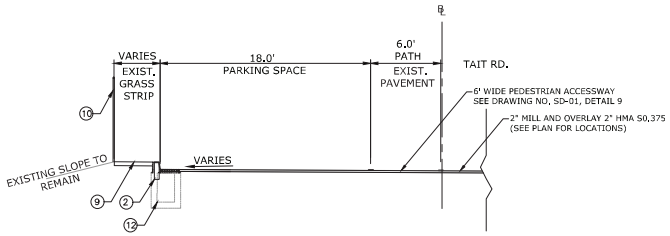
DRAWING TITLE: **INDEX PLAN**

PROJECT NO. **144-192**
DRAWING NO. **IND-01**
SHEET NO. **02.01**

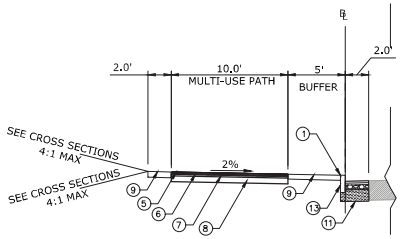



**SIDEWALK SECTION - 6 FT**
**STA 0+31.86 TO 1+96.38' AND STA 10+00.00' TO 27+70.65'**
NOT TO SCALE

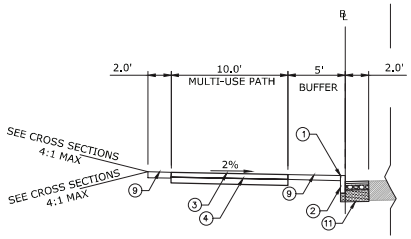
NOTE:
*THREE RAIL WOOD FENCE* - STA 0+29.86' TO 1+94.81'
*CONCRETE PAVERS* - STA 10+17.46' TO 10+67.08'
*STREET CROSSING* - STA 21+74.79' TO 22+62.98'
*COMMERCIAL RAMP CROSSING* - STA 17+31.74' TO 17+47.75', STA 18+85.90' TO 19+01.99', STA 19+16.55' TO 19+50.63', STA 22+76.29' TO 23+10.39', AND STA 23+78.87' TO 24+04.83'




**PATH SECTION - 6 FT (AT PARKING AREA)**
**STA 1+96.38' TO 5+04.05'**
NOT TO SCALE




**MULTI-USE TRAIL SECTION - 10 FT (BASE BID)**
**STA 28+00' TO 42+29.16'**
NOT TO SCALE




**MULTI-USE TRAIL SECTION - 10 FT (ADDITIVE ALTERNATE BID NO. 1)**
**STA 28+00' TO 42+29.16'**
NOT TO SCALE

NOTE:
*STREET CROSSING* - STA 27+49.61' TO STA 28+14.74' AND STA 30+33.00' TO 30+88.32'
*COMMERCIAL RAMP CROSSING* - STA 28+91.83' TO 29+08.33'
*DRIVEWAY CROSSING* - STA 39+39.00' TO 39+52.96', STA 40+51.15' TO 40+65.11', AND STA 41+07.46' TO 41+23.42'
*CONCRETE PAVERS (BOTH SIDES)* - STA 35+25.85' TO 37+58.31'

**LEGEND:**

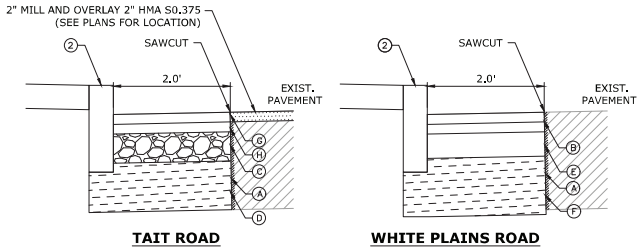
1. POINT OF APPLICATION OF GRADE
2. 6" CONCRETE CURB OR BCLC*
3. 5" CONCRETE SIDEWALK (CLASS "F")
4. 8" PROCESSED AGGREGATE BASE***
5. 1.25" HMA S0.25 TRAFFIC LEVEL 1
6. MATERIAL FOR TACK COAT
7. 1.5" HMA S0.375 TRAFFIC LEVEL 1
8. 6" PROCESSED AGGREGATE BASE***
9. 4" TOPSOIL AND TURF ESTABLISHMENT -- LAWN*
10. NEW WOOD FENCE
11. PAVEMENT REPAIR AT NEW CURB**
12. EXISTING CATCH BASIN (LOCATION VARIES, SEE PLANS)
13. BITUMINOUS CONCRETE LIP CURBING
14. THREE RAIL WOOD FENCE

* SEE PLANS FOR LOCATIONS

** PAVEMENT REPAIR VARIES DEPENDING ON ROAD, SEE DETAILS

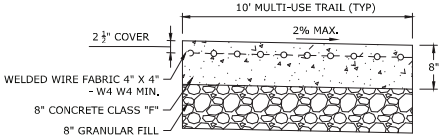
*** INSTALL 12" OF PROCESSED AGGREGATE BASE AS DIRECTED BY THE ENGINEER IN AREAS THAT HAVE POOR DRAINAGE OR SOIL CONDITIONS AS DETERMINED BY THE ENGINEER

A. MATERIAL FOR TACK COAT
B. 4" HMA S0.5 TRAFFIC LEVEL 2 (2 EQUAL LIFTS)
C. 6" PROCESSED AGGREGATE BASE
D. 10" SUBBASE
E. 5" HMA S1.0 TRAFFIC LEVEL 2 (PLACED IN A SINGLE LIFT)
F. 12" SUBBASE
G. 2" HMA S0.375 TRAFFIC LEVEL 2 (PLACED IN A SINGLE LIFT)
H. 2" HMA S0.5 TRAFFIC LEVEL 2 (PLACED IN A SINGLE LIFT)




**TAIT ROAD** **WHITE PLAINS ROAD**

**PAVEMENT REPAIR DETAILS**
NOT TO SCALE




**8" THICK CONCRETE AT DRIVEWAY DETAIL**
NOT TO SCALE

NOTES:

1. EARTHWORK REQUIRED FOR CURB INSTALLATION AND PAVEMENT REPAIR SHALL BE PAID FOR UNDER ITEM 081101 - CONCRETE CURBING. NO SEPARATE MEASUREMENT SHALL BE MADE FOR EARTH EXCAVATION.
2. ROOTS SHALL BE PRUNED OUTSIDE OF THE LIMITS OF GRADING, PRIOR TO CLEARING AND GRUBBING OF THE MULTI-USE TRAIL, AS DIRECTED BY THE ENGINEER.

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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Plotted Date: 3/18/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
SCALE AS NOTED

**TOWN OF TRUMBULL CONNECTICUT**

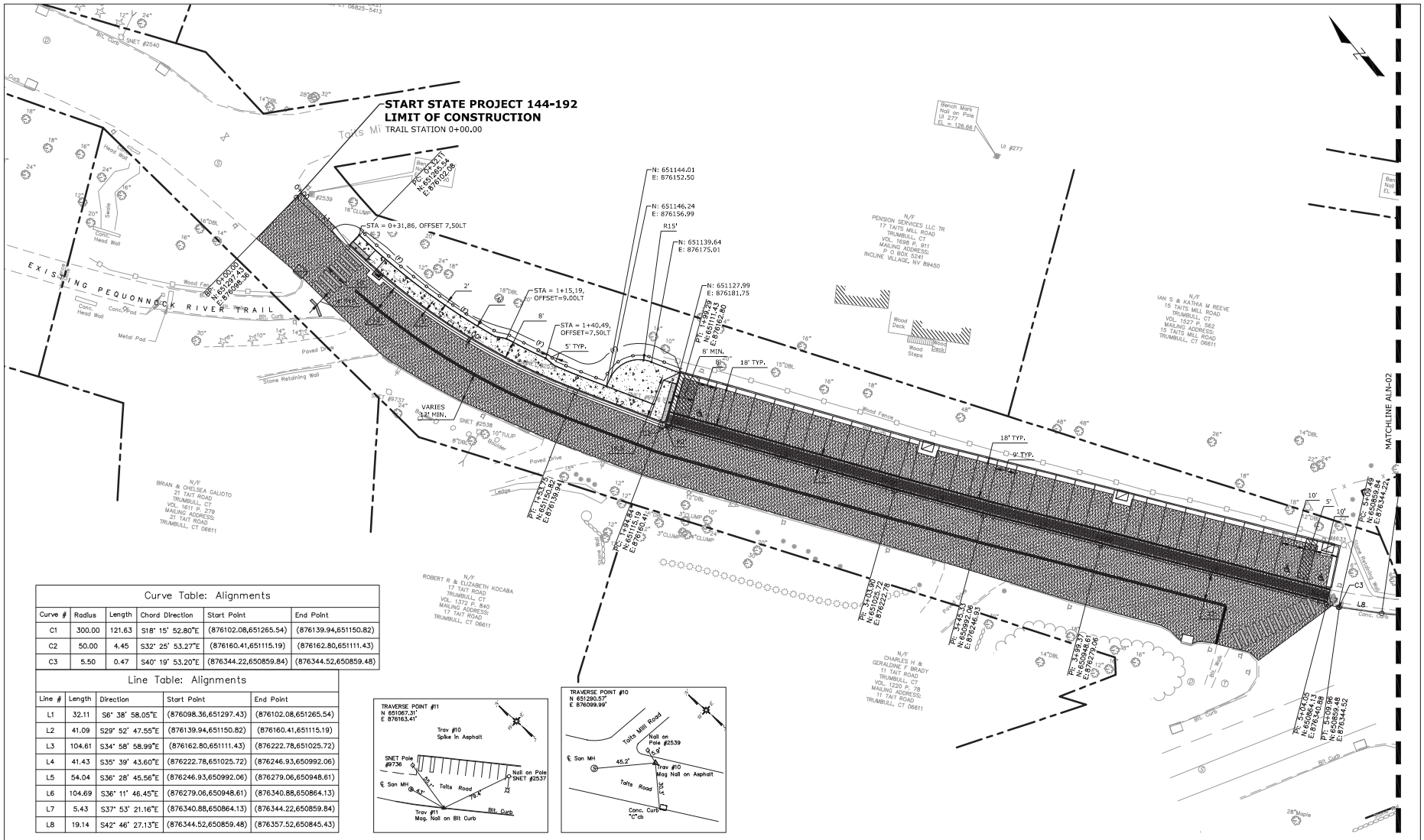
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Filename: U:\192310402\drawing\plot sheets\04_03.01-03.01_TYP_Typical Sections_2019.dwg

PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **TYPICAL SECTIONS**

PROJECT NO. **144-192**
DRAWING NO. **TYP-01**
SHEET NO. **03.01**




| Curve Table: Alignments | | | | | |
|---|---|---|---|---|---|
| Curve # | Radius | Length | Chord Direction | Start Point | End Point |
| C1 | 300.00 | 121.63 | S18° 15' 52.80"E | (876102.08,651265.54) | (876139.94,651150.82) |
| C2 | 50.00 | 4.45 | S32° 25' 53.27"E | (876160.41,651115.19) | (876162.80,651111.43) |
| C3 | 5.50 | 0.47 | S40° 19' 53.20"E | (876344.22,650859.84) | (876344.52,650859.48) |

| Line Table: Alignments | | | | |
|---|---|---|---|---|
| Line # | Length | Direction | Start Point | End Point |
| L1 | 32.11 | S6° 38' 58.05"E | (876098.36,651297.43) | (876102.08,651265.54) |
| L2 | 41.09 | S29° 52' 47.55"E | (876139.94,651150.82) | (876160.41,651115.19) |
| L3 | 104.61 | S34° 58' 58.99"E | (876162.80,651111.43) | (876222.78,651025.72) |
| L4 | 41.43 | S35° 39' 43.60"E | (876222.78,651025.72) | (876246.93,650992.06) |
| L5 | 54.04 | S36° 28' 45.56"E | (876246.93,650992.06) | (876279.06,650948.61) |
| L6 | 104.69 | S36° 11' 46.45"E | (876279.06,650948.61) | (876340.88,650864.13) |
| L7 | 5.43 | S37° 53' 21.16"E | (876340.88,650864.13) | (876344.22,650859.84) |
| L8 | 19.14 | S42° 46' 27.13"E | (876344.52,650859.48) | (876357.52,650845.43) |

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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Plotted Date: 3/8/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
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SCALE 1"=20'

**TOWN OF TRUMBULL CONNECTICUT**

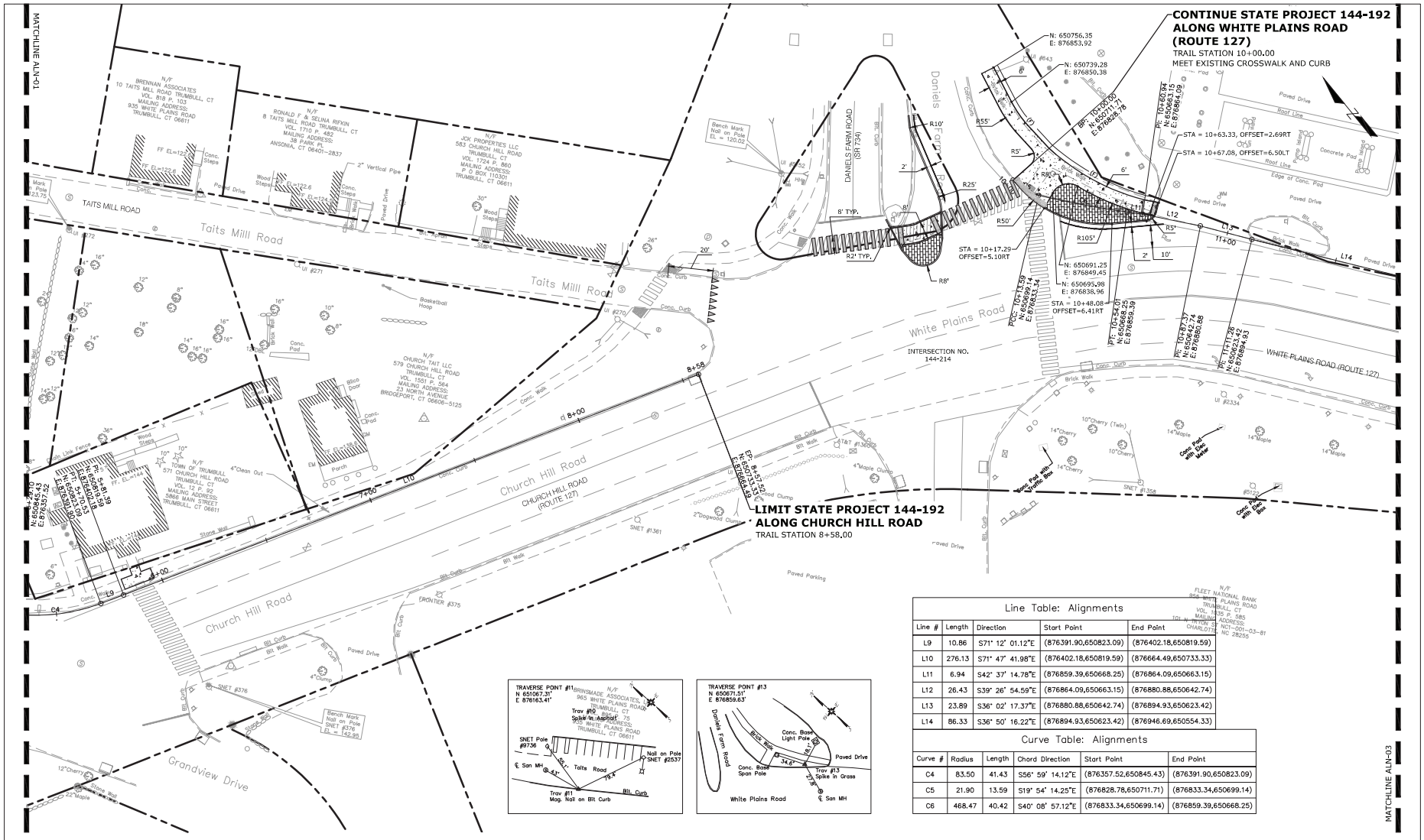
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PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **ALIGNMENT PLAN**

PROJECT NO. **144-192**
DRAWING NO. **ALN-01**
SHEET NO. **04.01**




Line Table: Alignments

| Line # | Length | Direction | Start Point | End Point |
|---|---|---|---|---|
| L9 | 10.86 | S71° 12' 01.12"E | (876391.90,650823.09) | (876402.18,650819.59) |
| L10 | 276.13 | S71° 47' 41.98"E | (876402.18,650819.59) | (876664.49,650733.33) |
| L11 | 6.94 | S42° 37' 14.78"E | (876859.39,650668.25) | (876864.09,650663.15) |
| L12 | 26.43 | S39° 26' 54.59"E | (876864.09,650663.15) | (876880.88,650642.74) |
| L13 | 23.89 | S36° 02' 17.37"E | (876880.88,650642.74) | (876894.93,650623.42) |
| L14 | 86.33 | S36° 50' 16.22"E | (876894.93,650623.42) | (876946.69,650554.33) |

Curve Table: Alignments

| Curve # | Radius | Length | Chord Direction | Start Point | End Point |
|---|---|---|---|---|---|
| C4 | 83.50 | 41.43 | S56° 59' 14.12"E | (876357.52,650845.43) | (876391.90,650823.09) |
| C5 | 21.90 | 13.59 | S19° 54' 14.25"E | (876828.78,650711.71) | (876833.34,650699.14) |
| C6 | 468.47 | 40.42 | S40° 08' 57.12"E | (876833.34,650699.14) | (876859.39,650668.25) |

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| - | - | Plotted Date: 3/8/2019 | - |
| | | Stantec Project No.: 192310402 | |

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DESIGNER/DRAFTER: ENB
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SCALE 1"=20'

**TOWN OF TRUMBULL**
**CONNECTICUT**

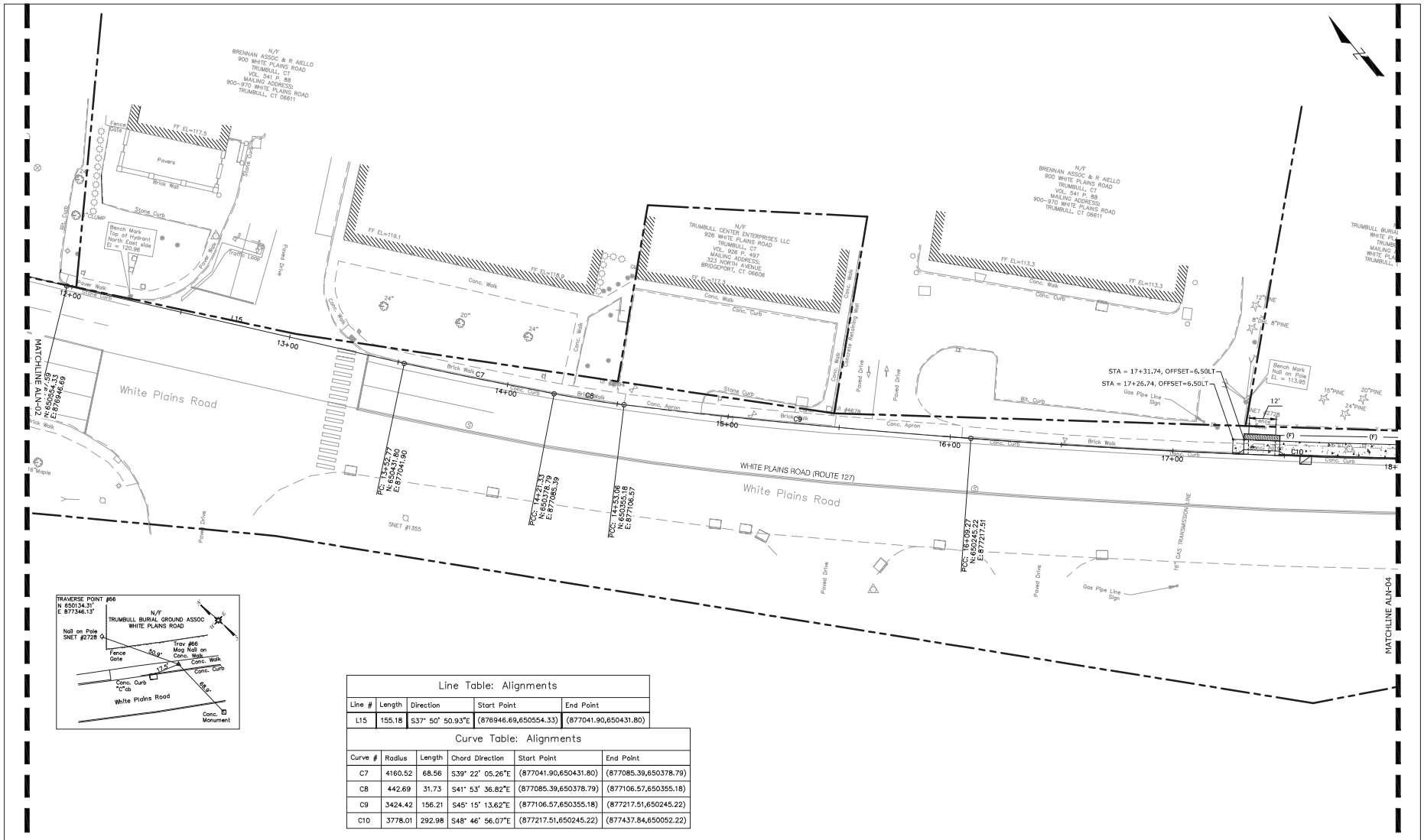
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PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL**
**SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **ALIGNMENT PLAN**

PROJECT NO. **144-192**
DRAWING NO. **ALN-02**
SHEET NO. **04.02**







| Line Table: Alignments | | | | |
|---|---|---|---|---|
| Line # | Length | Direction | Start Point | End Point |
| L15 | 155.18 | S37° 50' 50.93"E | (876946.69,650554.33) | (877041.90,650431.80) |

| Curve Table: Alignments | | | | | |
|---|---|---|---|---|---|
| Curve # | Radius | Length | Chord Direction | Start Point | End Point |
| C7 | 4160.52 | 68.56 | S39° 22' 05.26"E | (877041.90,650431.80) | (877085.39,650378.79) |
| C8 | 442.69 | 31.73 | S41° 53' 36.82"E | (877085.39,650378.79) | (877106.57,650355.18) |
| C9 | 3424.42 | 156.21 | S45° 15' 13.62"E | (877106.57,650355.18) | (877217.51,650245.22) |
| C10 | 3778.01 | 292.98 | S48° 46' 56.07"E | (877217.51,650245.22) | (877437.84,650052.22) |

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Plotted Date: 3/8/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
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SCALE 1"=20'

**TOWN OF TRUMBULL CONNECTICUT**

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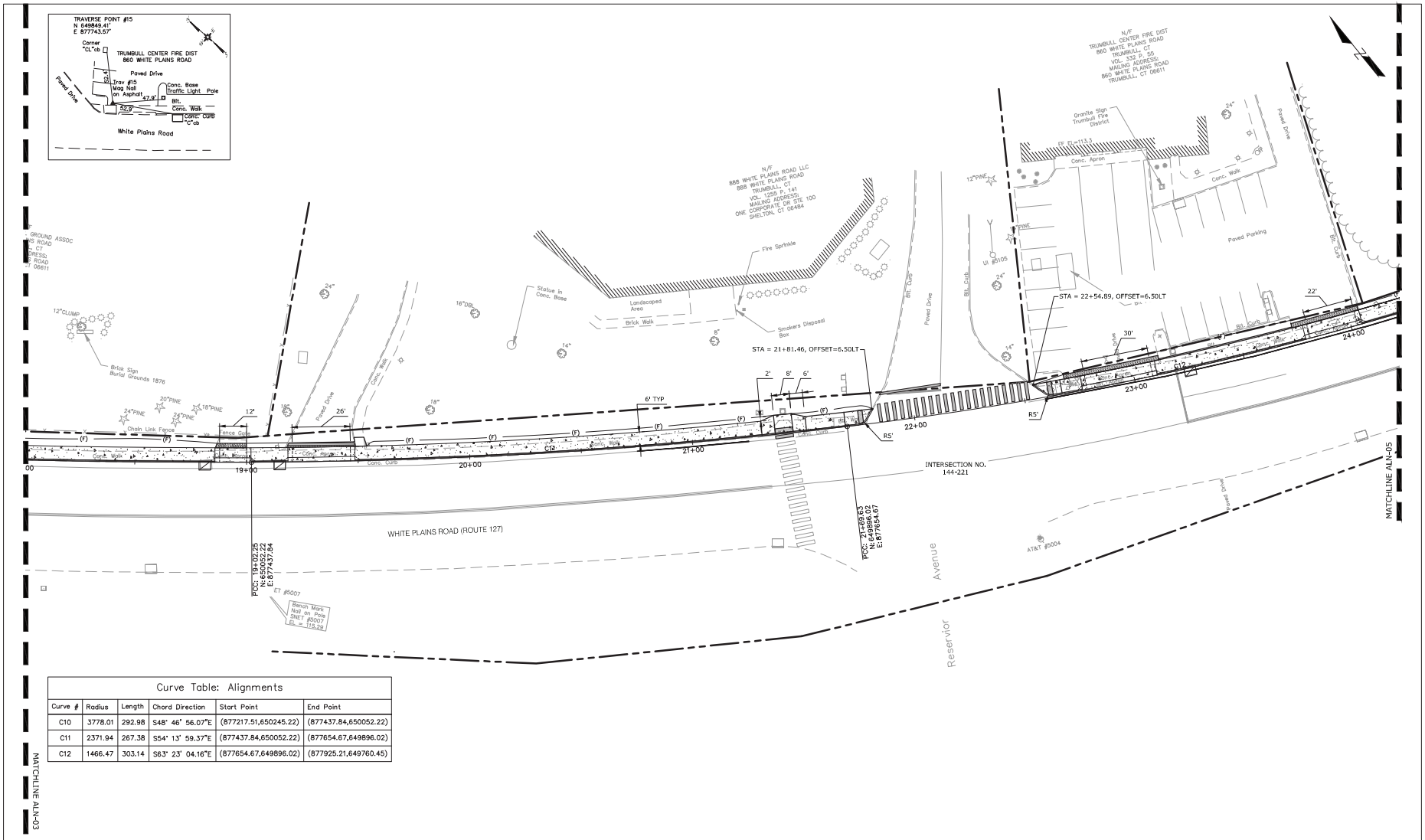
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PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**

DRAWING TITLE: **ALIGNMENT PLAN**

PROJECT NO. **144-192**
DRAWING NO. **ALN-03**
SHEET NO. **04.03**




| Curve Table: Alignments | | | | | |
|---|---|---|---|---|---|
| Curve # | Radius | Length | Chord Direction | Start Point | End Point |
| C10 | 3778.01 | 292.98 | S48° 46' 56.07"E | (877217.51,650245.22) | (877437.84,650052.22) |
| C11 | 2371.94 | 267.38 | S54° 13' 59.37"E | (877437.84,650052.22) | (877654.67,649896.02) |
| C12 | 1466.47 | 303.14 | S63° 23' 04.16"E | (877654.67,649896.02) | (877925.21,649760.45) |

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**TOWN OF TRUMBULL CONNECTICUT**

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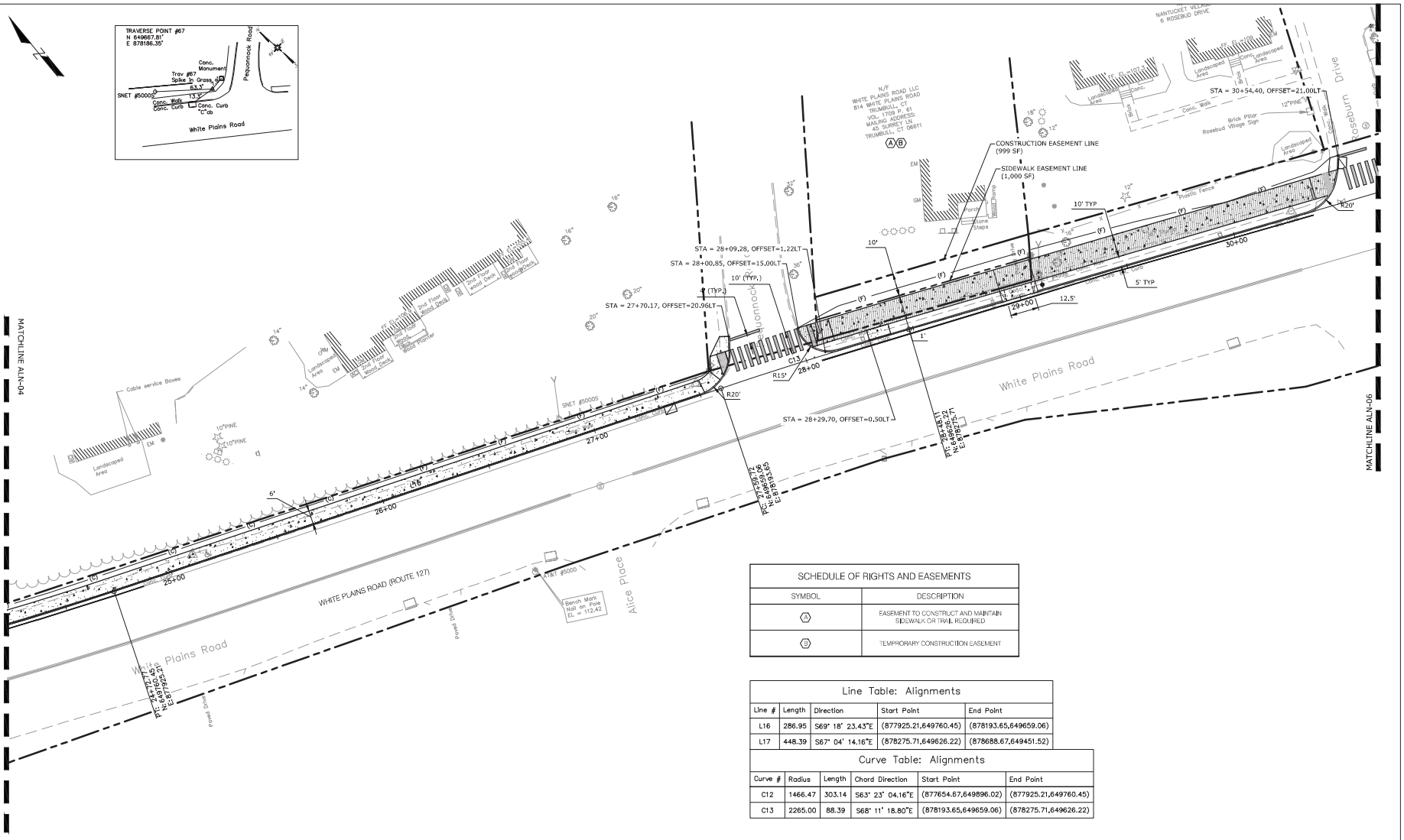
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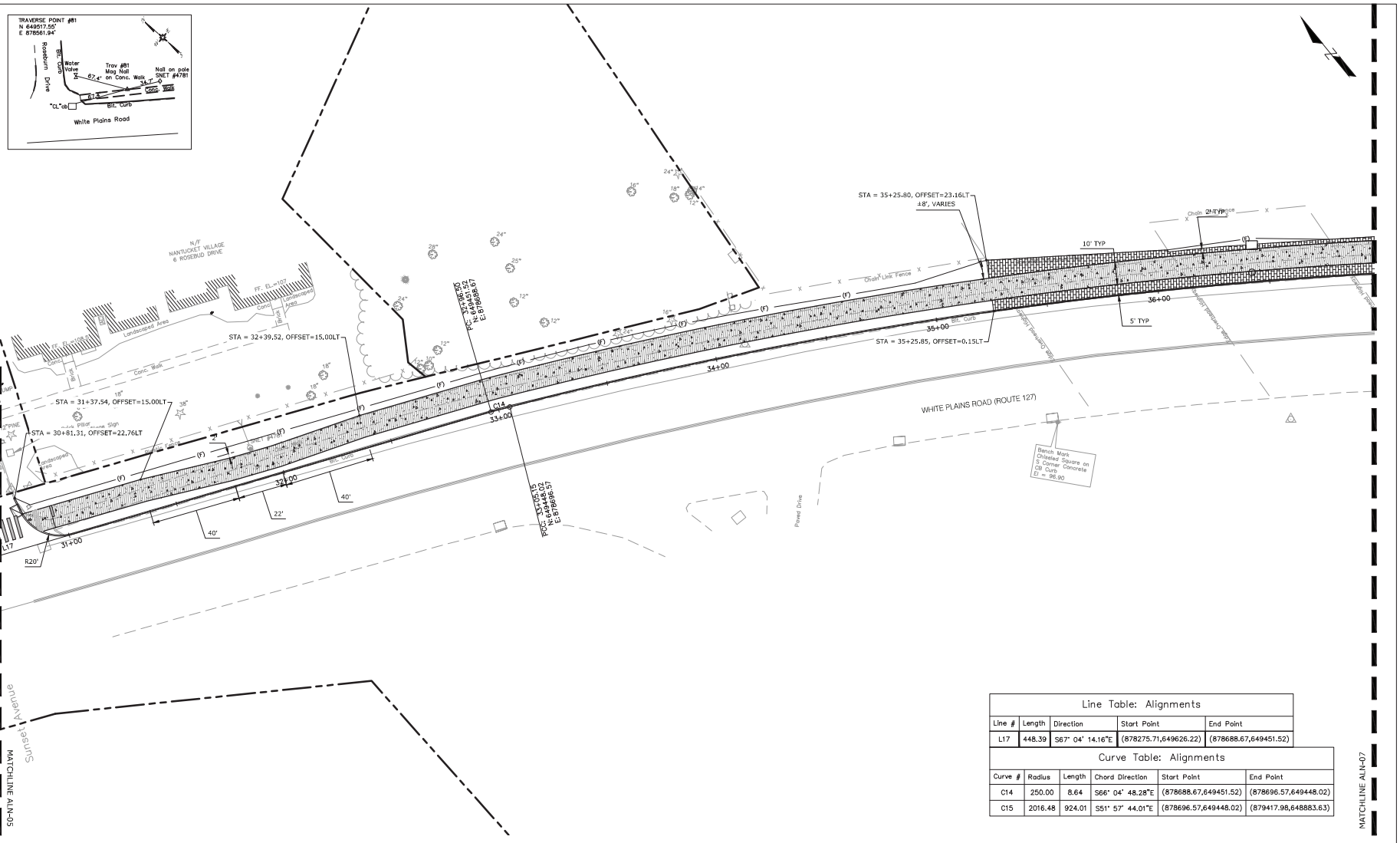
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TOWN: **TRUMBULL**

DRAWING TITLE: **ALIGNMENT PLAN**

PROJECT NO. **144-192**
DRAWING NO. **ALN-04**
SHEET NO. **04.04**


TRAVERSE POINT #67
N 649867.81'
E 878186.35'
Conc. Monument
Trav #67
Spike in Grass
63.3'
SNET #50005
13.9'
Conc. Walk
Conc. Curb
Conc. Curb
"C" cb
Pequonnock Road
White Plains Road
MATCHLINE ALN-04
MATCHLINE ALN-06
CONSTRUCTION EASEMENT LINE
(999 SF)
SIDEWALK EASEMENT LINE
(1,000 SF)
STA = 30+54.40, OFFSET=21.00LT
STA = 28+09.28, OFFSET=1.22LT
STA = 28+00.85, OFFSET=15.00LT
STA = 27+70.17, OFFSET=20.96LT
STA = 28+29.70, OFFSET=0.50LT
WHITE PLAINS ROAD (ROUTE 127)
Alice Place
Pequonnock River
Bench Mark
Nail on Pole
EL = 112.42
Rosebud Village Sign
Brick Pillar
Cable service Boxes
Landscaped Area
Bush
Conc. Walk
Plastic Fence
Stone Steps
Wood Pump
Power Pole
Guy Wire
Overhead Power
Underground Power
Gas Line
Water Line
Sewer Line
Drainage Line
Telephone Line
Cable TV Line
Fiber Optic Line
Electric Line
Chain Link Fence
Wood Fence
Stockade Fence
Post & Rail Fence
Retaining Wall
Concrete Curb
Granite Curb
Asphalt Curb
Concrete Walk
Brick Walk
Flagstone Walk
Asphalt Walk
Gravel Walk
Asphalt Pavement
Concrete Pavement
Gravel Pavement
Brick Pavement
Flagstone Pavement
Grass Area
Shrub Area
Tree Line
Deciduous Tree
Coniferous Tree
Hedge
Rock Outcrop
Boulder
Stone Wall
Rock Face
Rip-Rap
Sign
Flag Pole
Light Pole
Utility Pole
Guy Pole
Mail Box
Hydrant
Water Valve
Gas Valve
Sewer Manhole
Drainage Manhole
Telephone Manhole
Electric Manhole
Cable TV Manhole
Catch Basin
Curb Inlet
Area Drain
Transformer
Electric Meter
Gas Meter
Water Meter
Air Conditioning Unit
Generator
Satellite Dish
Antenna
Flood Light
Bollard
Parking Meter
Parking Space
Handicap Parking Space
Fence Gate
Pedestrian Gate
Vehicular Gate
Entrance
Exit
Ramp
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| Line Table: Alignments | | | | |
|---|---|---|---|---|
| Line # | Length | Direction | Start Point | End Point |
| L17 | 448.39 | S67° 04' 14.16"E | (878275.71,649626.22) | (878688.67,649451.52) |

| Curve Table: Alignments | | | | | |
|---|---|---|---|---|---|
| Curve # | Radius | Length | Chord Direction | Start Point | End Point |
| C14 | 250.00 | 8.64 | S66° 04' 48.28"E | (878688.67,649451.52) | (878696.57,649448.02) |
| C15 | 2016.48 | 924.01 | S51° 57' 44.01"E | (878696.57,649448.02) | (879417.98,648883.63) |

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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE TOWN AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/8/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
SCALE IN FEET 0 20 40
SCALE 1"=20'

**TOWN OF TRUMBULL CONNECTICUT**

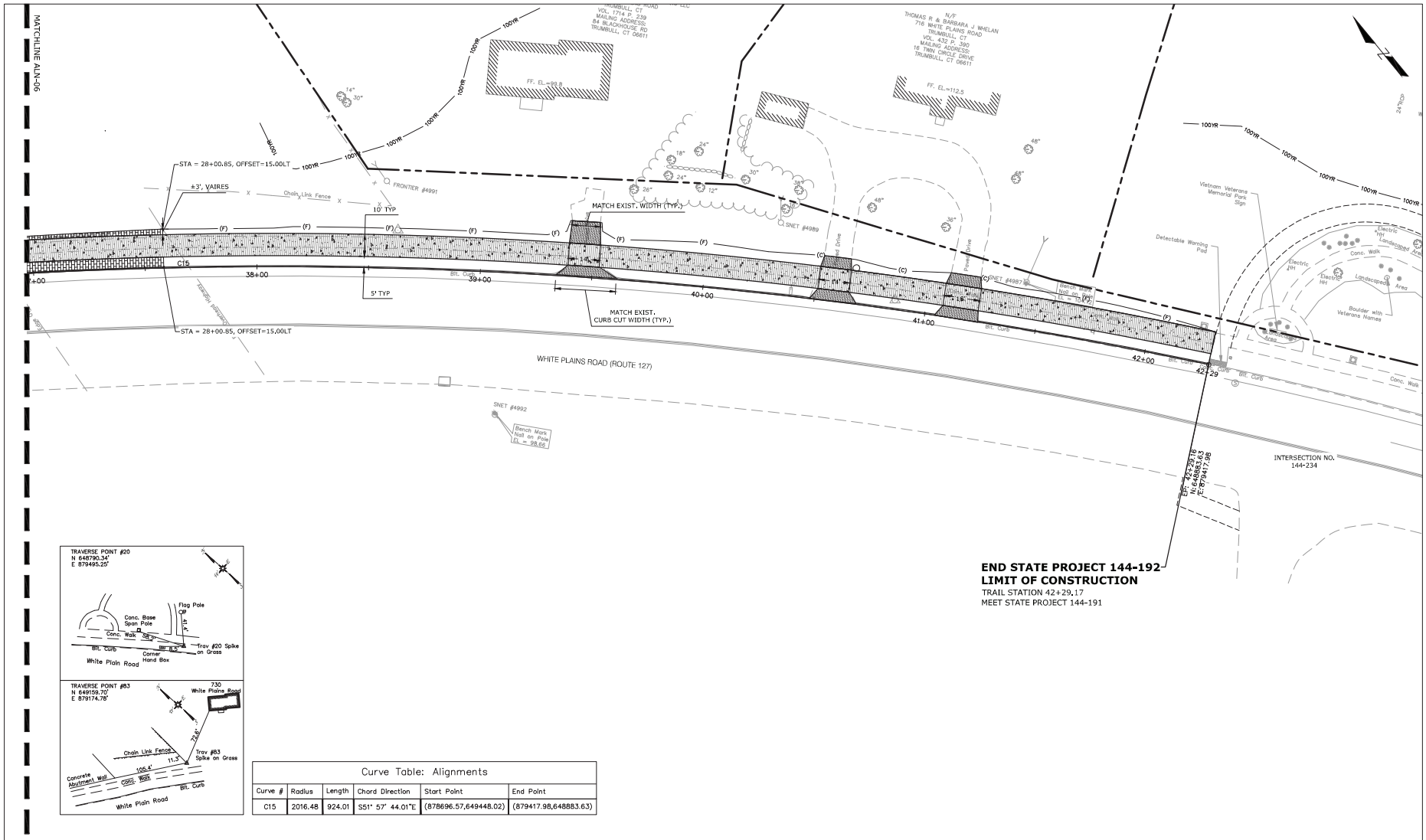
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Stantec
Stantec Consulting Services Inc.
55 Church Street, Suite 601
New Haven CT 06510
Tel. 203.495.1645
Fax. 203.495.1652
www.stantec.com

PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **ALIGNMENT PLAN**

PROJECT NO. **144-192**
DRAWING NO. **ALN-06**
SHEET NO. **04.06**







Curve Table: Alignments

| Curve # | Radius | Length | Chord Direction | Start Point | End Point |
|---|---|---|---|---|---|
| C15 | 2016.48 | 924.01 | S51° 57' 44.01"E | (878696.57,649448.02) | (879417.98,648883.63) |

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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Plotted Date: 3/8/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
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SCALE 1"=20'

**TOWN OF TRUMBULL CONNECTICUT**

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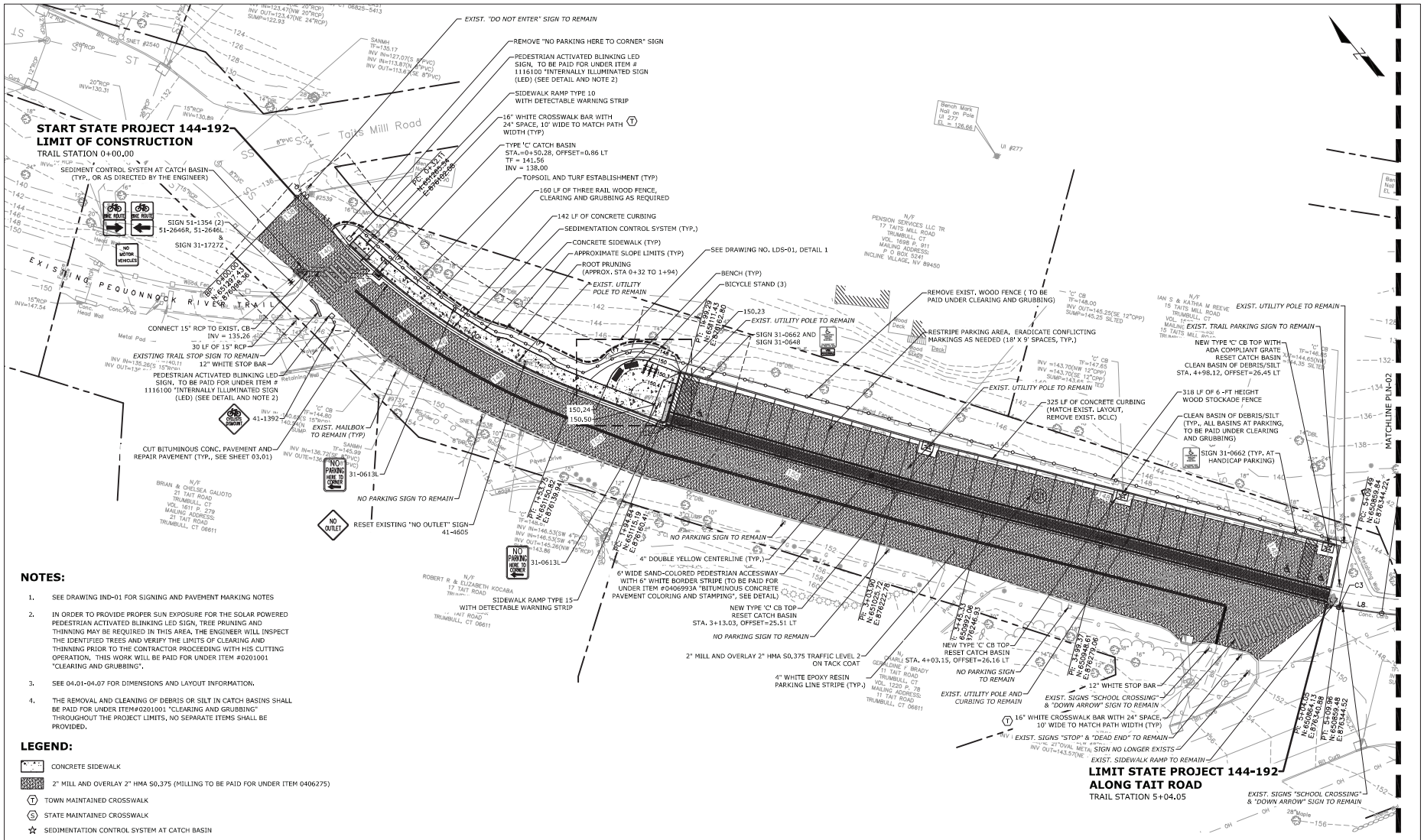
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PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**

DRAWING TITLE: **ALIGNMENT PLAN**

PROJECT NO. **144-192**
DRAWING NO. **ALN-07**
SHEET NO. **04.07**




## NOTES:

1. SEE DRAWING IND-01 FOR SIGNING AND PAVEMENT MARKING NOTES
2. IN ORDER TO PROVIDE PROPER SUN EXPOSURE FOR THE SOLAR POWERED PEDESTRIAN ACTIVATED BLINKING LED SIGN, TREE PRUNING AND THINNING MAY BE REQUIRED IN THIS AREA. THE ENGINEER WILL INSPECT THE IDENTIFIED TREES AND VERIFY THE LIMITS OF CLEARING AND THINNING PRIOR TO THE CONTRACTOR PROCEEDING WITH HIS CUTTING OPERATION. THIS WORK WILL BE PAID FOR UNDER ITEM #0201001 "CLEARING AND GRUBBING".
3. SEE 04.01-04.07 FOR DIMENSIONS AND LAYOUT INFORMATION.
4. THE REMOVAL AND CLEANING OF DEBRIS OR SILT IN CATCH BASINS SHALL BE PAID FOR UNDER ITEM#0201001 "CLEARING AND GRUBBING" THROUGHOUT THE PROJECT LIMITS, NO SEPARATE ITEMS SHALL BE PROVIDED.

## LEGEND:

- CONCRETE SIDEWALK
- 2" MILL AND OVERLAY 2" HMA S0.375 (MILLING TO BE PAID FOR UNDER ITEM 0406275)
- (T) TOWN MAINTAINED CROSSWALK
- (S) STATE MAINTAINED CROSSWALK
- ☆ SEDIMENTATION CONTROL SYSTEM AT CATCH BASIN

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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Plotted Date: 3/18/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
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SCALE 1"=20'

**TOWN OF TRUMBULL CONNECTICUT**

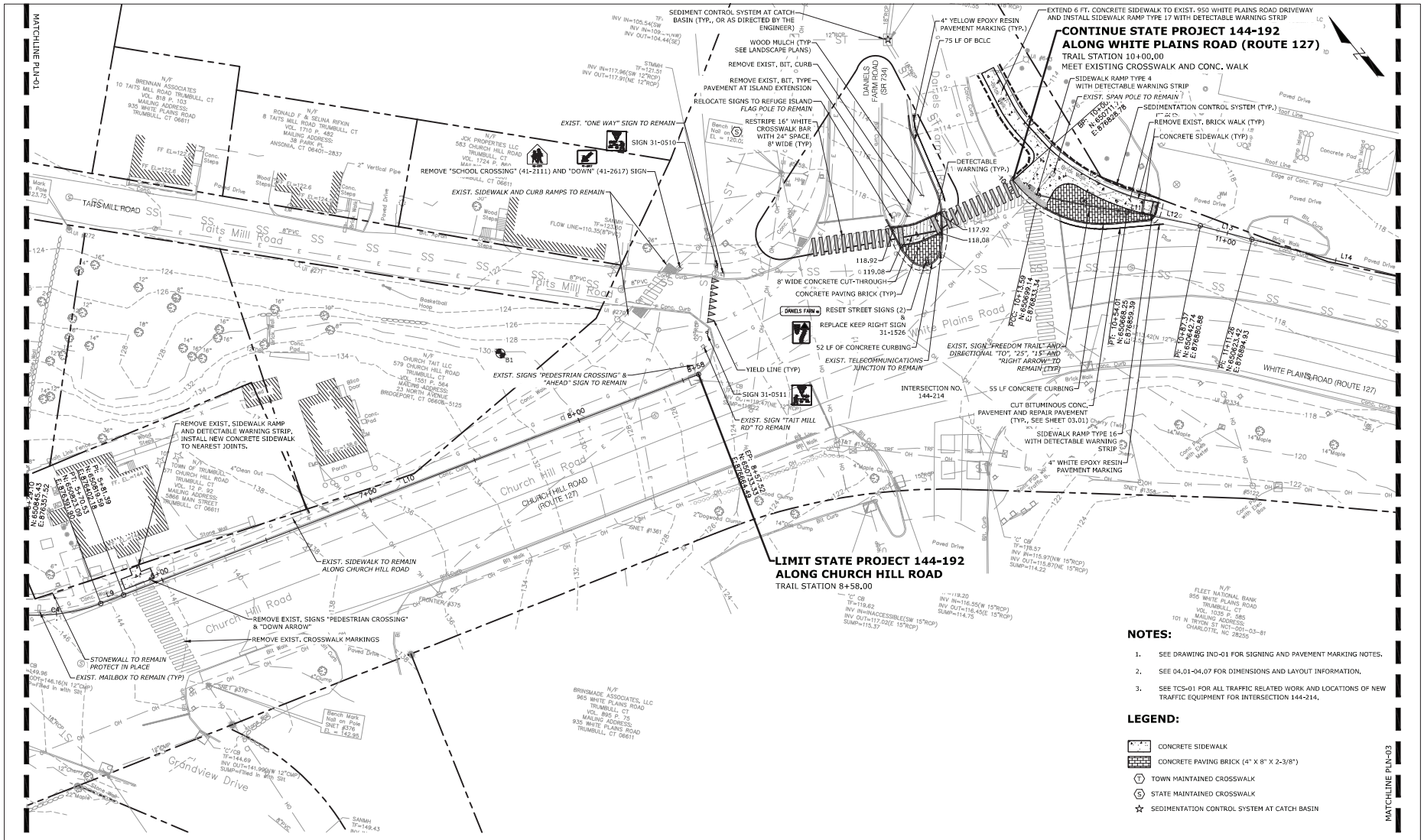
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06510
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PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **TRAIL PLAN**

PROJECT NO. **144-192**
DRAWING NO. **PLN-01**
SHEET NO. **05.01**




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Stantec Project No.: 192310402

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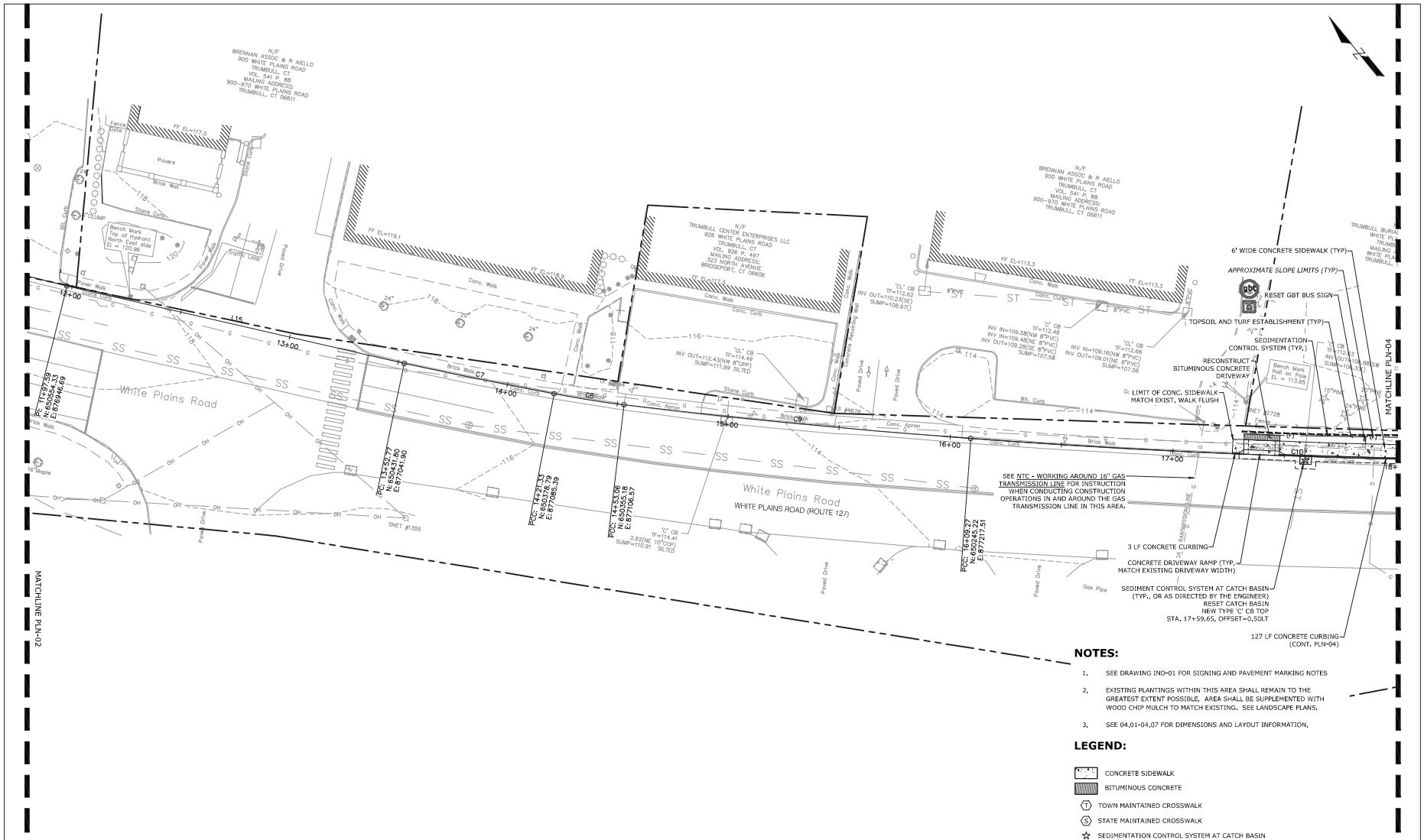
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PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **TRAIL PLAN**

PROJECT NO. **144-192**
DRAWING NO. **PLN-02**
SHEET NO. **05.02**




**NOTES:**

1. SEE DRAWING IND-01 FOR SIGNING AND PAVEMENT MARKING NOTES
2. EXISTING PLANTINGS WITHIN THIS AREA SHALL REMAIN TO THE GREATEST EXTENT POSSIBLE. AREA SHALL BE SUPPLEMENTED WITH WOOD CHIP MULCH TO MATCH EXISTING. SEE LANDSCAPE PLANS.
3. SEE 04.01-04.07 FOR DIMENSIONS AND LAYOUT INFORMATION.

**LEGEND:**

- CONCRETE SIDEWALK
- BITUMINOUS CONCRETE
- (T) TOWN MAINTAINED CROSSWALK
- (S) STATE MAINTAINED CROSSWALK
- ☆ SEDIMENTATION CONTROL SYSTEM AT CATCH BASIN

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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Stantec Project No.: 192310402

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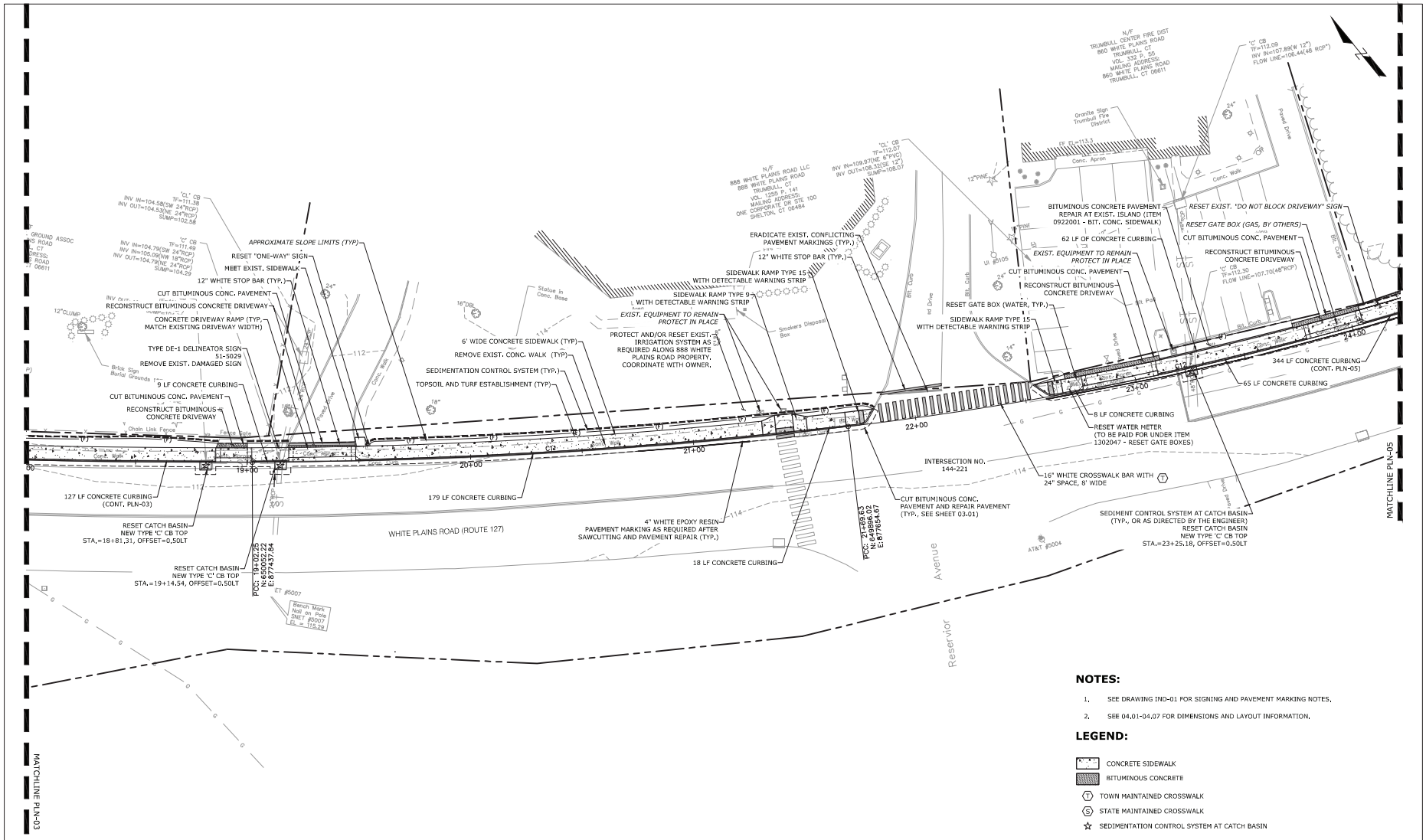
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PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**

DRAWING TITLE: **TRAIL PLAN**

PROJECT NO. **144-192**
DRAWING NO. **PLN-03**
SHEET NO. **05.03**




**NOTES:**

1. SEE DRAWING IND-01 FOR SIGNING AND PAVEMENT MARKING NOTES.
2. SEE 04.01-04.07 FOR DIMENSIONS AND LAYOUT INFORMATION.

**LEGEND:**

- CONCRETE SIDEWALK
- BITUMINOUS CONCRETE
- (T) TOWN MAINTAINED CROSSWALK
- (S) STATE MAINTAINED CROSSWALK
- ☆ SEDIMENTATION CONTROL SYSTEM AT CATCH BASIN

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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Plotted Date: 3/18/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
SCALE IN FEET 0 20 40
SCALE 1"=20'

**TOWN OF TRUMBULL CONNECTICUT**

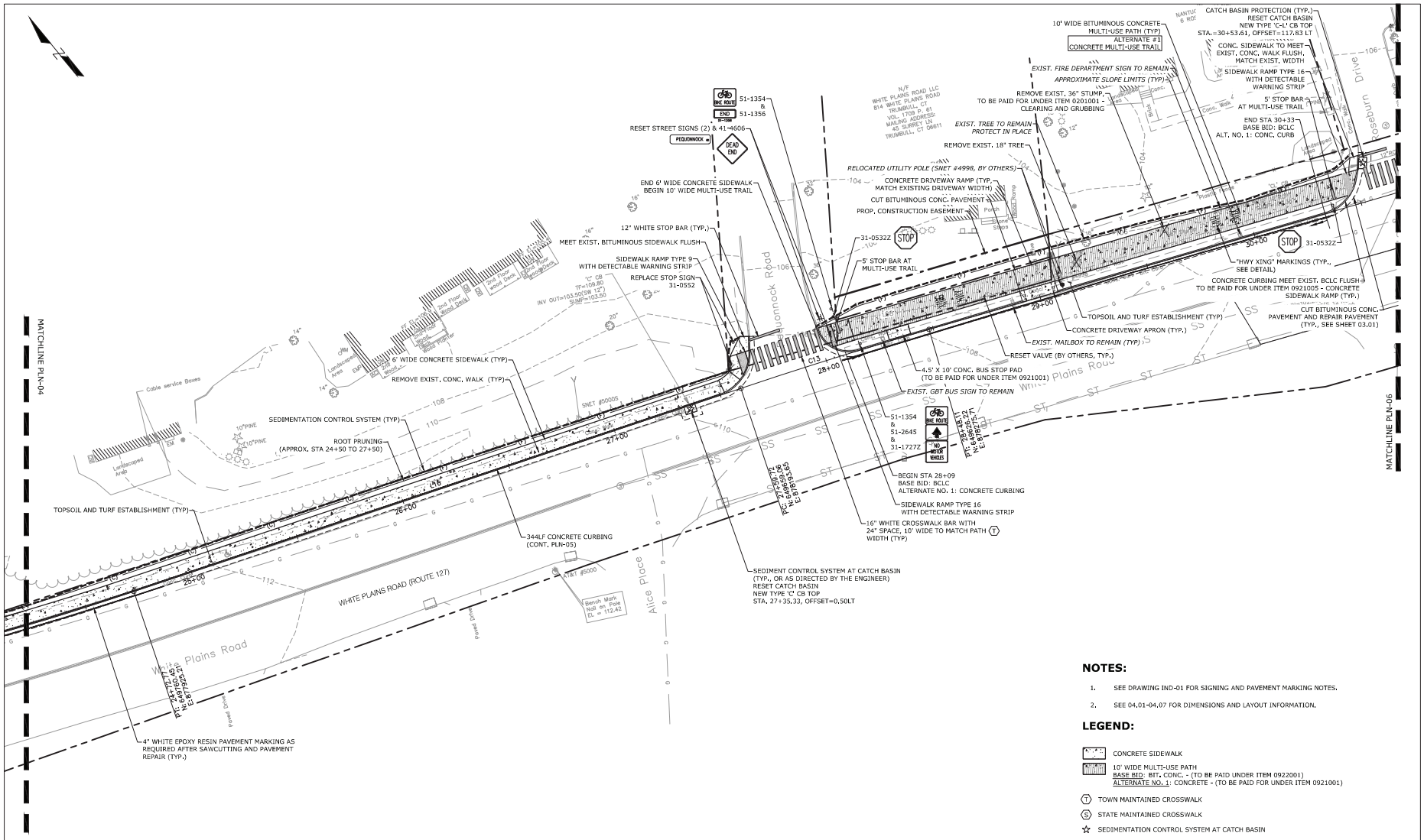
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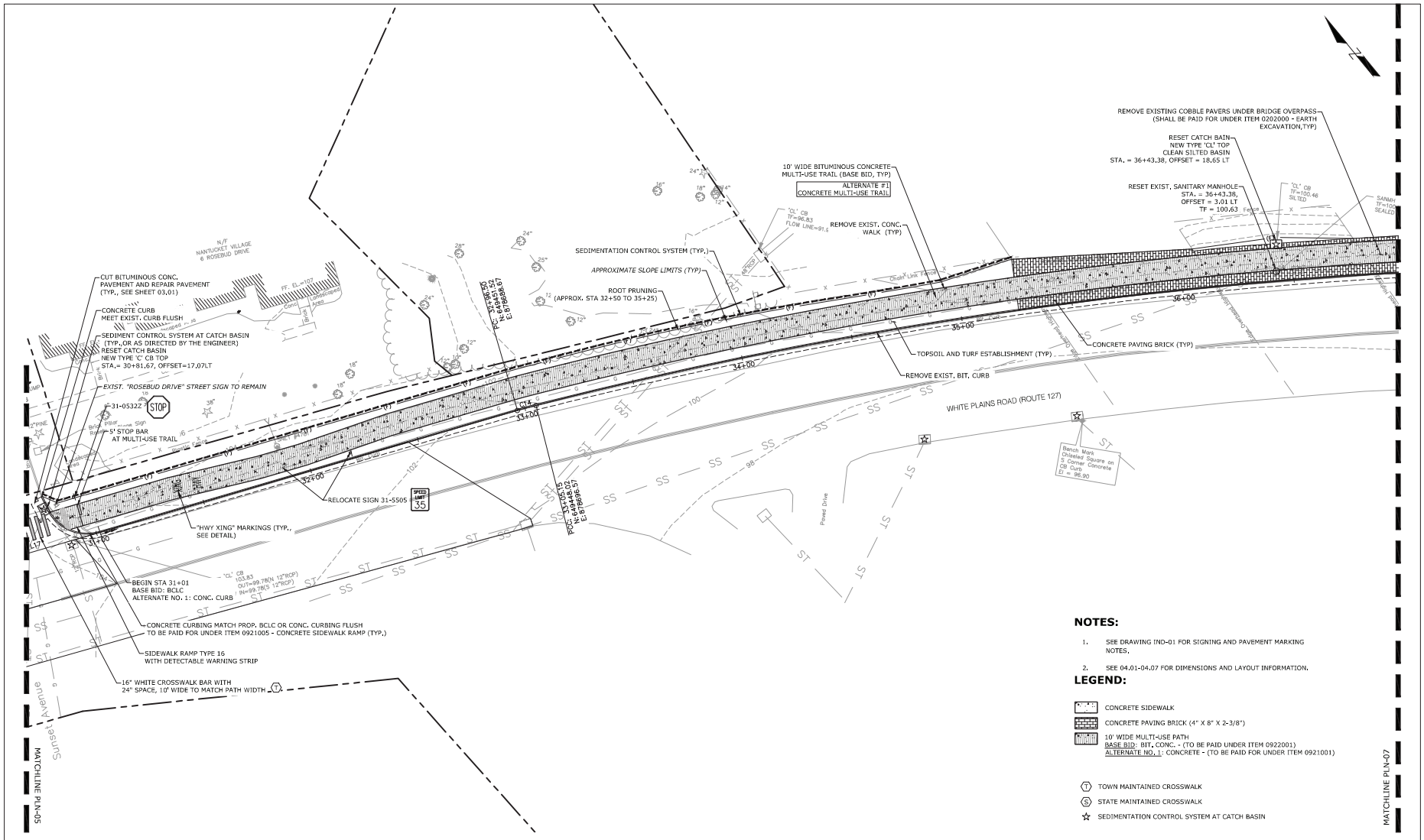
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Stantec Consulting Services Inc.
55 Church Street, Suite 601
New Haven CT
06510
Tel. 203.495.1645
Fax. 203.495.1652
www.stantec.com

PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **TRAIL PLAN**

PROJECT NO. **144-192**
DRAWING NO. **PLN-04**
SHEET NO. **05.04**


MATCHLINE PLN-04
MATCHLINE PLN-06
WHITE PLAINS ROAD (ROUTE 127)
White Plains Road
Pequonnock Road
Alice Place
Rossburn Drive
51-1354 & 51-1356
RESET STREET SIGNS (2) & 41-4606
PEQUONNOCK
DEAD END
END 6' WIDE CONCRETE SIDEWALK BEGIN 10' WIDE MULTI-USE TRAIL
12" WHITE STOP BAR (TYP.)
MEET EXIST. BITUMINOUS SIDEWALK FLUSH
SIDEWALK RAMP TYPE 9 WITH DETECTABLE WARNING STRIP
REPLACE STOP SIGN 31-0552
6' WIDE CONCRETE SIDEWALK (TYP)
REMOVE EXIST. CONC. WALK (TYP)
SEDIMENTATION CONTROL SYSTEM (TYP)
ROOT PRUNING (APPROX. STA 24+50 TO 27+50)
TOPSOIL AND TURF ESTABLISHMENT (TYP)
344LF CONCRETE CURBING (CONT, PLN-05)
4" WHITE EPOXY RESIN PAVEMENT MARKING AS REQUIRED AFTER SAWCUTTING AND PAVEMENT REPAIR (TYP.)
SEDIMENT CONTROL SYSTEM AT CATCH BASIN (TYP., OR AS DIRECTED BY THE ENGINEER) RESET CATCH BASIN NEW TYPE 'C' CB TOP STA. 27+35.33, OFFSET=0.50LT
16" WHITE CROSSWALK BAR WITH 24" SPACE, 10' WIDE TO MATCH PATH (T) WIDTH (TYP)
SIDEWALK RAMP TYPE 16 WITH DETECTABLE WARNING STRIP
BEGIN STA 28+09 BASE BID: BCLC ALTERNATE NO. 1: CONCRETE CURBING
4.5' X 10' CONC. BUS STOP PAD (TO BE PAID FOR UNDER ITEM 09210001)
EXIST. GBT BUS SIGN TO REMAIN
51-1354 & 51-2645 & 31-1727Z
RESET VALVE (BY OTHERS, TYP.)
EXIST. MAILBOX TO REMAIN (TYP)
CONCRETE DRIVEWAY APRON (TYP.)
TOPSOIL AND TURF ESTABLISHMENT (TYP)
CONCRETE CURBING MEET EXIST, BCLC FLUSH - TO BE PAID FOR UNDER ITEM 0921005 - CONCRETE SIDEWALK RAMP (TYP.)
CUT BITUMINOUS CONC. PAVEMENT AND REPAIR PAVEMENT (TYP., SEE SHEET 03.01)
'HWY XING' MARKINGS (TYP., SEE DETAIL)
END STA 30+33 BASE BID: BCLC ALT. NO. 1: CONC. CURB
5' STOP BAR AT MULTI-USE TRAIL
SIDEWALK RAMP TYPE 16 WITH DETECTABLE WARNING STRIP
CONC. SIDEWALK TO MEET EXIST. CONC. WALK FLUSH, MATCH EXIST. WIDTH
CATCH BASIN PROTECTION (TYP.) RESET CATCH BASIN NEW TYPE 'C-1' CB TOP STA. =30+53.61, OFFSET=117.83 LT
10' WIDE BITUMINOUS CONCRETE MULTI-USE PATH (TYP) ALTERNATE #1 CONCRETE MULTI-USE TRAIL
EXIST. FIRE DEPARTMENT SIGN TO REMAIN
APPROXIMATE SLOPE LIMITS (TYP.)
REMOVE EXIST. 36" STUMP, TO BE PAID FOR UNDER ITEM 0201001 - CLEARING AND GRUBBING
EXIST. TREE TO REMAIN PROTECT IN PLACE
REMOVE EXIST. 18" TREE
RELOCATED UTILITY POLE (SNET #4998, BY OTHERS)
CONCRETE DRIVEWAY RAMP (TYP., MATCH EXISTING DRIVEWAY WIDTH)
CUT BITUMINOUS CONC. PAVEMENT
PROP. CONSTRUCTION EASEMENT
N/F WHITE PLAINS ROAD LLC 814 WHITE PLAINS ROAD TRUMBULL, CT VOL. 1709 PG. 61 MAILING ADDRESS: 45 SURREY LN TRUMBULL, CT 06611
Bench Mark Nail on Pole EL. = 112.42
SNET #5000S
AT&T #5000
Power Pole
Cable service Boxes
Landscaped Area
Landscaped Area
Stone Steps
Porch
Concrete Ramp
Brick Walk
Conc. Walk
Shrubs
Trees
Wood Fence
Chain Link Fence
Stone Wall
Retaining Wall
Guide Rail
Utility Pole
Guy Wire
Light Pole
Sign
Mailbox
Fire Hydrant
Gas Valve
Water Valve
Water Meter
Electric Manhole
Telephone Manhole
Sewer Manhole
Drain Manhole
Catch Basin
Curb Inlet
Flared End Section
Roof Drain
Gutter Drain
Footing Drain
Area Drain
Trench Drain
Cleanout
Gas Line
Water Line
Sanitary Sewer Line
Storm Drain Line
Underground Electric
Overhead Wires
Underground Telephone
Underground Cable TV
Fiber Optic Line
Underground Gas
Underground Water
Underground Sewer
Underground Storm




**NOTES:**

1. SEE DRAWING IND-01 FOR SIGNING AND PAVEMENT MARKING NOTES.
2. SEE 04.01-04.07 FOR DIMENSIONS AND LAYOUT INFORMATION.

**LEGEND:**

- CONCRETE SIDEWALK
- CONCRETE PAVING BRICK (4" X 8" X 2-3/8")
- 10' WIDE MULTI-USE PATH
  BASE BID: BIT. CONC. - (TO BE PAID UNDER ITEM 0922001)
  ALTERNATE NO. 1: CONCRETE - (TO BE PAID FOR UNDER ITEM 0921001)
- (T) TOWN MAINTAINED CROSSWALK
- (S) STATE MAINTAINED CROSSWALK
- ☆ SEDIMENTATION CONTROL SYSTEM AT CATCH BASIN

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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Plotted Date: 3/18/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
SCALE IN FEET 0 20 40
SCALE 1"=20'

**TOWN OF TRUMBULL CONNECTICUT**

Filename: U:\192310402\drawing\plot sheets\04_05.01-05.07_PLN_Trail Plan_2019.dwg

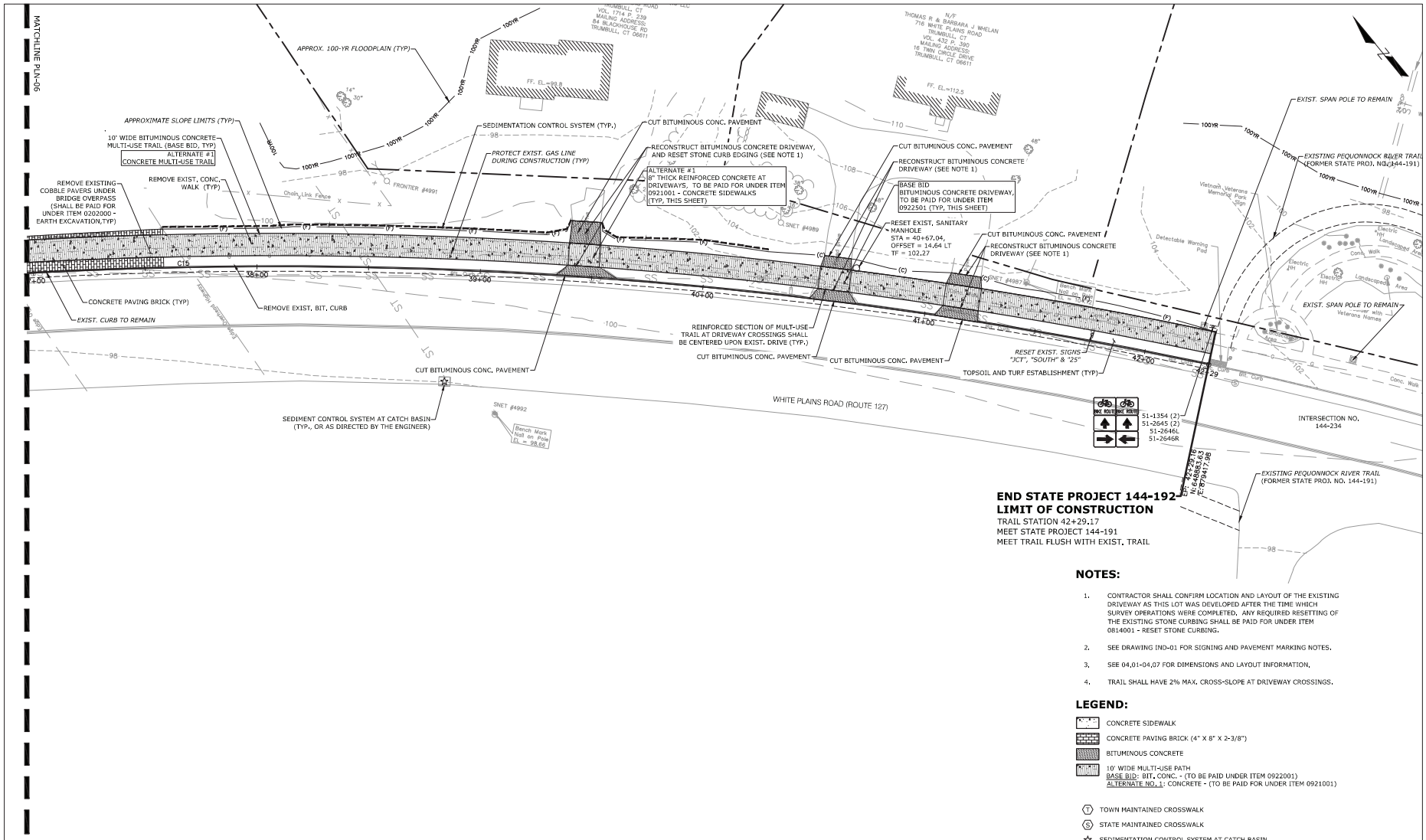
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Tel. 203.495.1645
Fax. 203.495.1652
www.stantec.com

PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**

DRAWING TITLE: **TRAIL PLAN**

PROJECT NO. **144-192**
DRAWING NO. **PLN-06**
SHEET NO. **05.06**




## NOTES:

1. CONTRACTOR SHALL CONFIRM LOCATION AND LAYOUT OF THE EXISTING DRIVEWAY AS THIS LOT WAS DEVELOPED AFTER THE TIME WHICH SURVEY OPERATIONS WERE COMPLETED. ANY REQUIRED RESETTING OF THE EXISTING STONE CURBING SHALL BE PAID FOR UNDER ITEM 0814001 - RESET STONE CURBING.
2. SEE DRAWING IND-01 FOR SIGNING AND PAVEMENT MARKING NOTES.
3. SEE 04.01-04.07 FOR DIMENSIONS AND LAYOUT INFORMATION.
4. TRAIL SHALL HAVE 2% MAX. CROSS-SLOPE AT DRIVEWAY CROSSINGS.

## LEGEND:

- CONCRETE SIDEWALK
- CONCRETE PAVING BRICK (4" X 8" X 2-3/8")
- BITUMINOUS CONCRETE
- 10' WIDE MULTI-USE PATH
  BASE BID: BIT. CONC. - (TO BE PAID UNDER ITEM 0922001)
  ALTERNATE NO. 1: CONCRETE - (TO BE PAID FOR UNDER ITEM 0921001)
- (T) TOWN MAINTAINED CROSSWALK
- (S) STATE MAINTAINED CROSSWALK
- ☆ SEDIMENTATION CONTROL SYSTEM AT CATCH BASIN

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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**TOWN OF TRUMBULL CONNECTICUT**

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PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**

DRAWING TITLE: **TRAIL PLAN**

PROJECT NO. **144-192**
DRAWING NO. **PLN-07**
SHEET NO. **05.07**

## MOVEMENT DIAGRAM

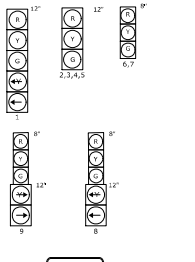
| NTOR | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 | PHASE 5 | PHASE 6 | PHASE 7 | PHASE 8 |
|---|---|---|---|---|---|---|---|---|
| NONE | | | | | | | | |

| FACE # | FLASH | PHASE 1 GRN | PHASE 1 CL | PHASE 1 CL | PHASE 2 GRN | PHASE 2 CL | PHASE 2 CL | PHASE 3 GRN | PHASE 3 CL | PHASE 3 CL | PHASE 4 GRN | PHASE 4 CL | PHASE 4 CL | PHASE 5 GRN | PHASE 5 CL | PHASE 5 CL | PHASE 6 GRN | PHASE 6 CL | PHASE 6 CL | PHASE 7 GRN | PHASE 7 CL | PHASE 7 CL | PHASE 8 GRN | PHASE 8 CL | PHASE 8 CL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Y | G ← | G ↚ | G | G | 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 | R | R | R | | | | | | | | | |
| 3 | Y | R | R | R | G | Y | R | R | R | R | R | R | R | R | R | R | | | | | | | | | |
| 4 | Y | R | R | R | G | Y | R | R | R | R | R | R | R | R | R | R | | | | | | | | | |
| 5 | Y | R | R | R | G | Y | R | R | R | R | R | R | R | R | R | R | | | | | | | | | |
| 6 | R | R | R | R | R | R | R | R | R | R | R | R | R | G | Y | R | | | | | | | | | |
| 7 | R | R | R | 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 ← | G ↚ | G | G | Y | R | | | | | | | | | |
| 9 | R | R → | R | ↛ R | R | R | R | R | R | R | G | G | G | G | Y → | R → | | | | | | | | | |
| P | OFF | ← | | | DW | | → | W⊕ | ← | | DW | | | | | | | | | | | | | | |
| | | | | | | ← YIELD PT. | | | | | | | | | | | | | | | | | | | |

| INTERVALS | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 | PHASE 5 | PHASE 6 | PHASE 7 | PHASE 8 |
|---|---|---|---|---|---|---|---|---|
| MIN GRN | 5 | 15 | 7 Ⓞ | 4 | 9 | | | |
| WALK | | ACCESSIBLE PEDESTRIAN SIGNAL | 25 Ⓞ | | | | | |
| PED CLR | | | | | 1.5 | | | |
| VEH EXT | | | | | 11 | | | |
| MAX 1 | 5 | 15 | | 4 | 11 | | | |
| MAX 2 | 10 | 15 | | 4 | 11 | | | |
| YELLOW | 3.0 | 3.9 | 4.0 | 3.0 | 3.0 | | | |
| RED | 0.1 | 1.4 | 0.0 | 0.1 | 0.9 | | | |
| ADD INIT | | COUNTDOWN PEDESTRIAN SIGNAL | | | | | | |
| MAX INIT | | | | | | | | |
| TBR | | | | | | | | |
| TTR | | | | | | | | |
| MIN GAP | | | | | | | | |
| MODE | MAX. RECALL | MIN. RECALL | NON-LOCK | LOCK | NON-LOCK | OFF | OFF | OFF |
| INIT START | | THIS PHASE | | | | | | |

| ENERGY BY - STATE | METER # - |
|---|---|
| MAINT LEVEL - S | SERVICE POLE # SNET 1358 |
| UNMETERED SERVICE | |

SIGNAL FACES




ALL INDICATIONS HAVE LED LAMPS

OFFICE RECORD
REVISION # 19

TIR #: N/A SM#: N/A

SIGNAL REVISED:

REPLACED PEDESTRIAN SIGNAL WITH ACCESSIBLE COUNTDOWN UNDER PROJECT 144-192.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

TOWN OF TRUMBULL
ROUTE 127 (WHITE PLAINS ROAD) AT
SR 734 (DANIELS FARM ROAD) & PRIV. DR.

| REV. # 19 | TRAFFIC DATE | ELECTRICAL DATE |
|---|---|---|
| ENGINEER: | | |
| DRAWN BY: | | |
| CHECKED BY: | | |
| SUBMITTED BY: | | |
| APPROVED BY: | | |
| DATE: | | |

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## CONSTRUCTION NOTES:

ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING EXCEPT AS NOTED.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISIONS.

ALL PEDESTRIAN PUSH BUTTONS TO BE "ACCESSIBLE PEDESTRIAN SIGNAL AND DETECTOR (TYPE A)", INSTALL SIGN NO. 31-0856 WITH APPROPRIATE ARROW AT PEDESTRIAN PUSH BUTTON LOCATIONS.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

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.

THE LOCATION OF TRAFFIC SIGNAL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 4 FEET. IF A MINIMUM 4 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

MODIFY EXISTING CONTROLLER TO ACCOMODATE CHANGES. SUPPLY 5 COPIES OF REVISED CABINET WIRING DIAGRAMS.

CLEAN EXISTING CONDUITS AND HANDHOLES TO BE REUSED.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.

(L) INSTALL PEDESTAL FOUNDATION, PEDESTAL, APS AND COUNTDOWN PEDESTRIAN SIGNAL ADJACENT TO LANDING AREA.

(M) REMOVE EXISTING PUSHBUTTON AND PEDESTRIAN SIGNAL AND INSTALL NEW APS AND COUNTDOWN PEDESTRIAN SIGNAL ON EXISTING PEDESTAL.

(N) INSTALL TOGGLE BOLT WITH WASHER TO EFFECTIVELY SEAL HOLES LEFT IN PEDESTAL/SPAN POLE/WHERE PEDESTRIAN PUSHBUTTON AND PEDESTRIAN SIGNAL HOUSINGS ARE REMOVED.

(W) INSTALL PEDESTAL FOUNDATION, PEDESTAL, BI-DIRECTIONAL APS AND COUNTDOWN PEDESTRIAN SIGNAL ADJACENT TO LANDING AREA.

(P) LOCATE EXISTING SPAN POLE CONDUIT AND EXTEND TO PROPOSED HANDHOLE.

### DETECTORS

| IDENT | SIZE (WXL) | TURNS | MODE | SYSTEM LOC MASTER 144-211 |
|---|---|---|---|---|
| D1 | 6'X20' | 2 | DISCONNECT | 144-218 |
| D5-A | 6'X20' | 2 | DELAY 2" | 144-214 |
| D5-B | 6'X20' | 2 | DELAY 8" | |
| D4 | 6'X20' | 2 | DELAY 8" | |
| D5 | 6'X20' | 2 | DELAY 2" | |

### COORDINATION TYPE: TC/TBC

| PROGRAM FUNCTION | TIME | DAYS | CYCLE | OFFSET SEC | OFFSET % |
|---|---|---|---|---|---|
| FLASH | 2300-0500 | DAILY | | | |
| CYCLE 1 | ALL OTHER TIMES | | 60" | 1 | 1 |
| | | | 80" | 1 | 1 |
| CYCLE 2 | 1000-1200<br>1400-2300 | DAILY | | | |
| MAX 2 | 0000-1000<br>1200-1400 | DAILY | | | |
| MAX 1 | ALL OTHER TIMES | | | | |
| FREE | 0500-0600 | DAILY | | | |

PHASE SPLITS SEC / %: Ø1 Ø2 Ø3 Ø4 Ø5 Ø6 Ø7 Ø8 | PERMIT PERIOD: Ø SEC

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY

PHASE 1 ALWAYS TO PRECEDE PHASE 2
PHASE 4 ALWAYS TO PRECEDE PHASE 5

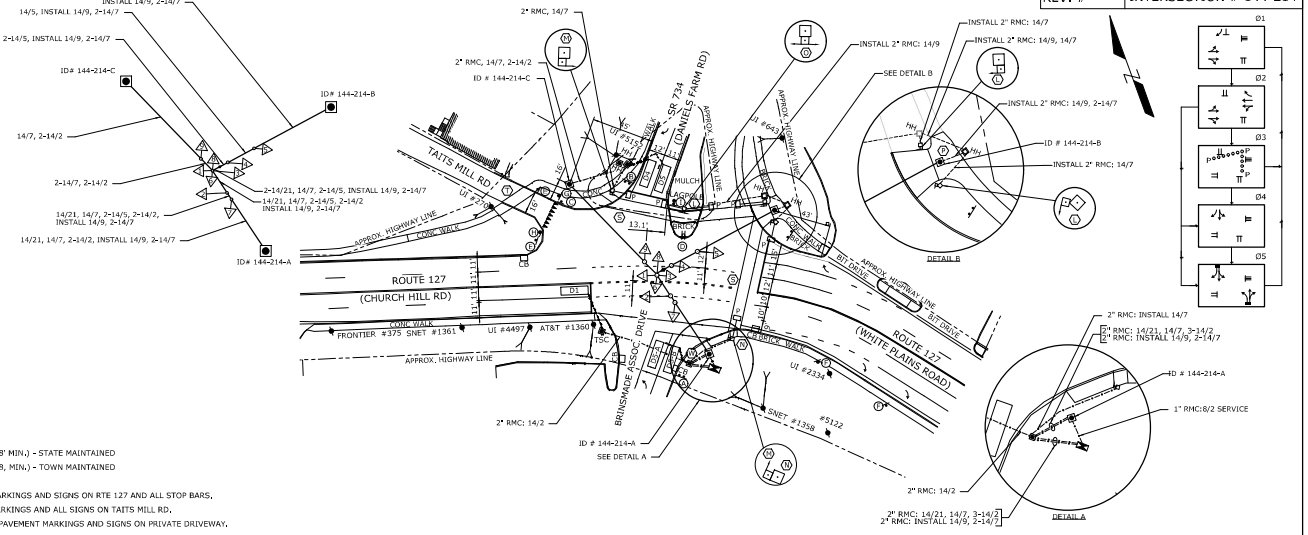
IF WALK PHASE CALLED DURING CYCLE 2, THEN SIGNAL MAY DOUBLE CYCLE.

Ⓞ PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVALS.
Ⓞ COUNTDOWN ONLY DURING PEDESTRIAN CHANGE INTERVAL.

MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CHANGE INTERVAL.

LEGEND:
R RED
Y YELLOW
G GREEN
FL FLASHING
RED ARROW
YELLOW ARROW
GREEN ARROW
WALK/ PED. CLR (OR) DONT WALK

SIGN LEGEND
(A) EXISTING 31-0282Z
(B) EXISTING 31-0283Z
(C) EXISTING 31-1188L
(D) REPLACE 31-1526 (R)
RESET STREET SIGN
(E) EXISTING 41-4829
EXISTING 41-6126 (AHEAD)
(F) EXISTING 31-0118
(G) INSTALL 31-0510
(H) INSTALL 31-0511
(I) EXISTING 31-1526




REV. # | INTERSECTION # 144-214

NOTES:
(S) BAR TYPE CROSSWALK (24"-16" X 8' MIN.) - STATE MAINTAINED
(T) BAR TYPE CROSSWALK (24"-16" X 8, MIN.) - TOWN MAINTAINED
(W) 30" X 30" CONCRETE HANDHOLE
STATE TO MAINTAIN PAVEMENT MARKINGS AND SIGNS ON RTE 127 AND ALL STOP BARS.
TOWN TO MAINTAIN PAVEMENT MARKINGS AND ALL SIGNS ON TAITS MILL RD.
OTHERS TO MAINTAIN ALL OTHER PAVEMENT MARKINGS AND SIGNS ON PRIVATE DRIVEWAY.

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON
BI-DIRECTIONAL ARW. FOR PUSH BUTTON
TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE

DET. LEADS IN SAW CUT
PROPOSED RMC (RIGID METAL CONDUIT)
EXISTING RMC (RIGID METAL CONDUIT)
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTION ZONE
PROPOSED CONTROLLER
EXISTING CONTROLLER
LOOP DETECTOR
SD SYSTEM DETECTOR

MAGNETIC DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR
VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSCEIVER
GUY WIRE
PROPOSED/EXISTING HANDHOLE

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Plotted Date: 3/18/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ALH
CHECKED BY: DH
SCALE IN FEET 20 0 40

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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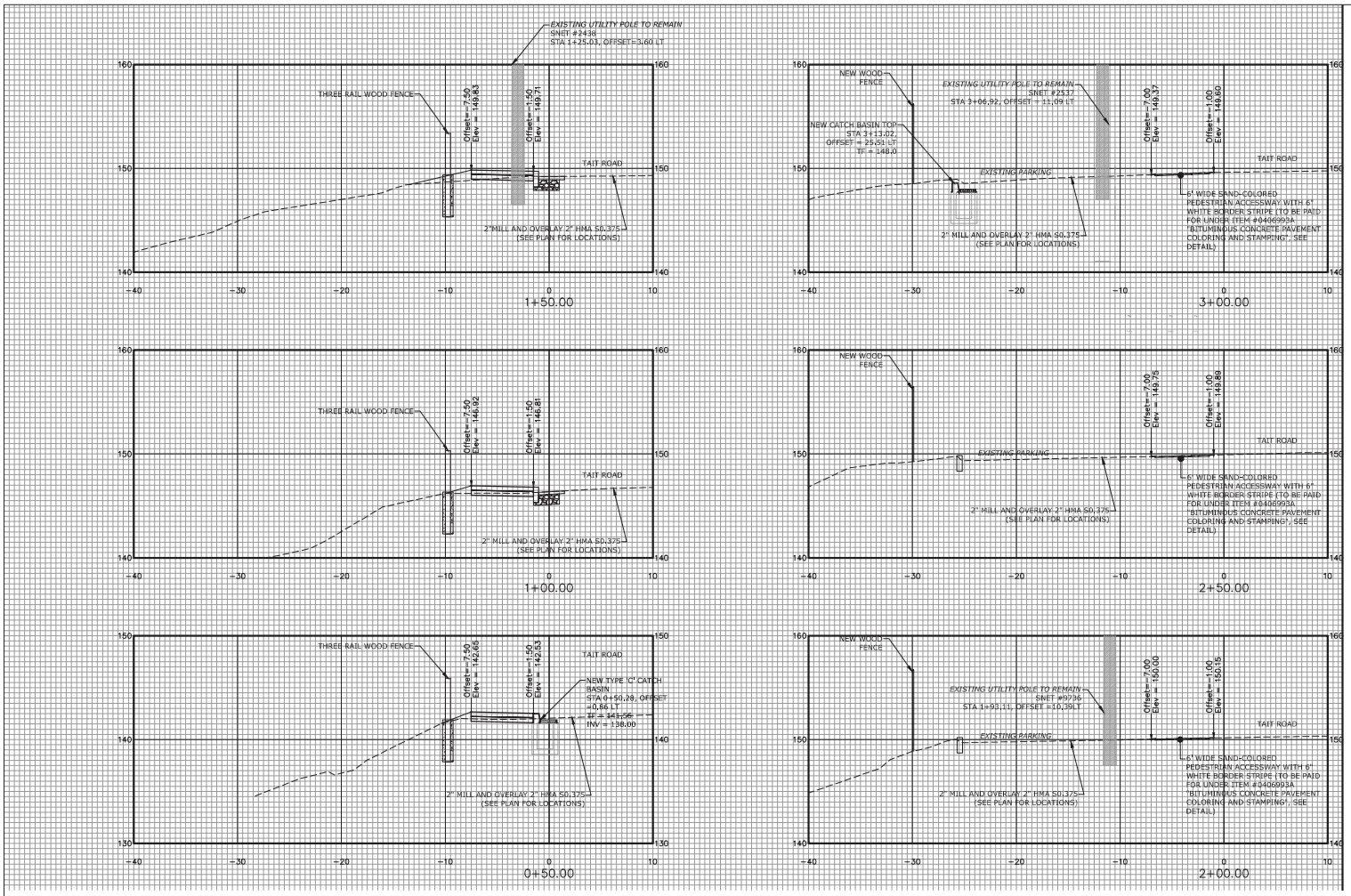
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PROJECT TITLE:
PEQUONNOCK RIVER TRAIL
SECTION A2

TOWN: TRUMBULL
DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 144-192
DRAWING NO. TCS-01
SHEET NO. 06.01

REV. # 19 | INTERSECTION # 144-214




| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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SCALE IN FEET
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SCALE 1"=5'

**TOWN OF TRUMBULL CONNECTICUT**

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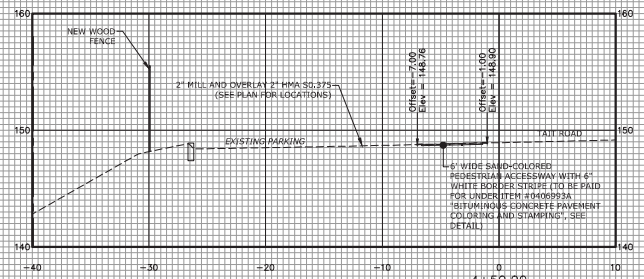

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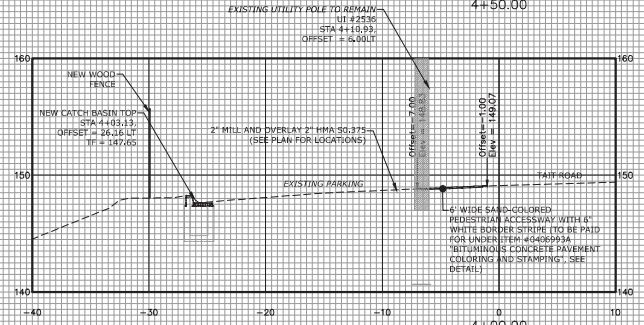

PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL SECTION A2**

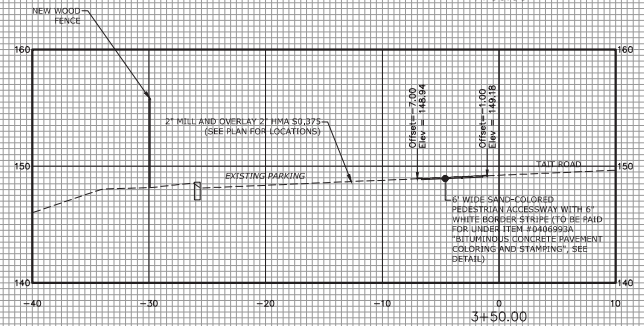
TOWN: **TRUMBULL**

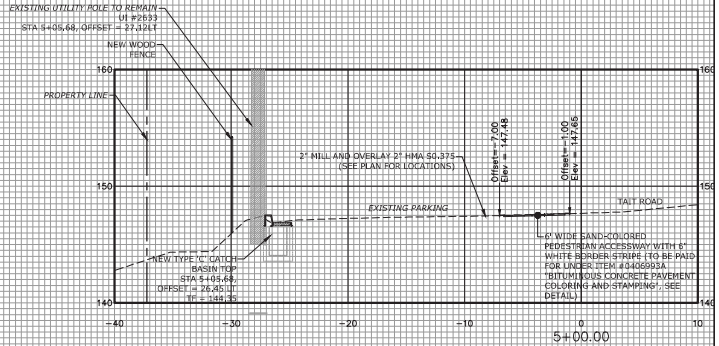
DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **144-192**
DRAWING NO. **XSC-01**
SHEET NO. **07.01**




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Plotted Date: 3/18/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
SCALE IN FEET 0 5 10
SCALE 1"=5'

**TOWN OF TRUMBULL CONNECTICUT**

Filename: U:\192310402\drawing\plot sheets\08_07.01-07.13_XSC_Cross Sections_2019.dwg

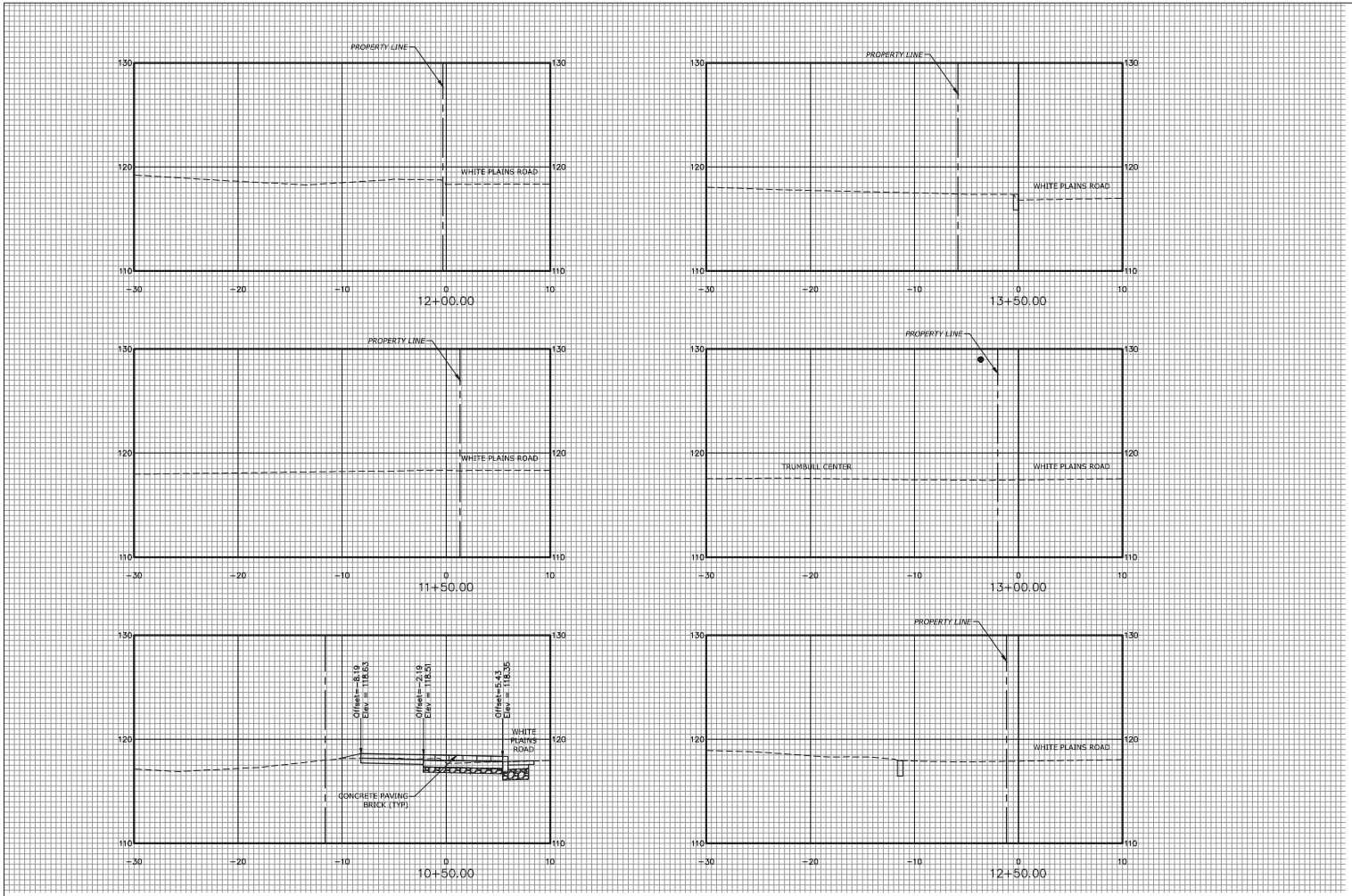
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PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **144-192**
DRAWING NO. **XSC-02**
SHEET NO. **07.02**




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Plotted Date: 3/8/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
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SCALE 1"=5'

**TOWN OF TRUMBULL**
**CONNECTICUT**

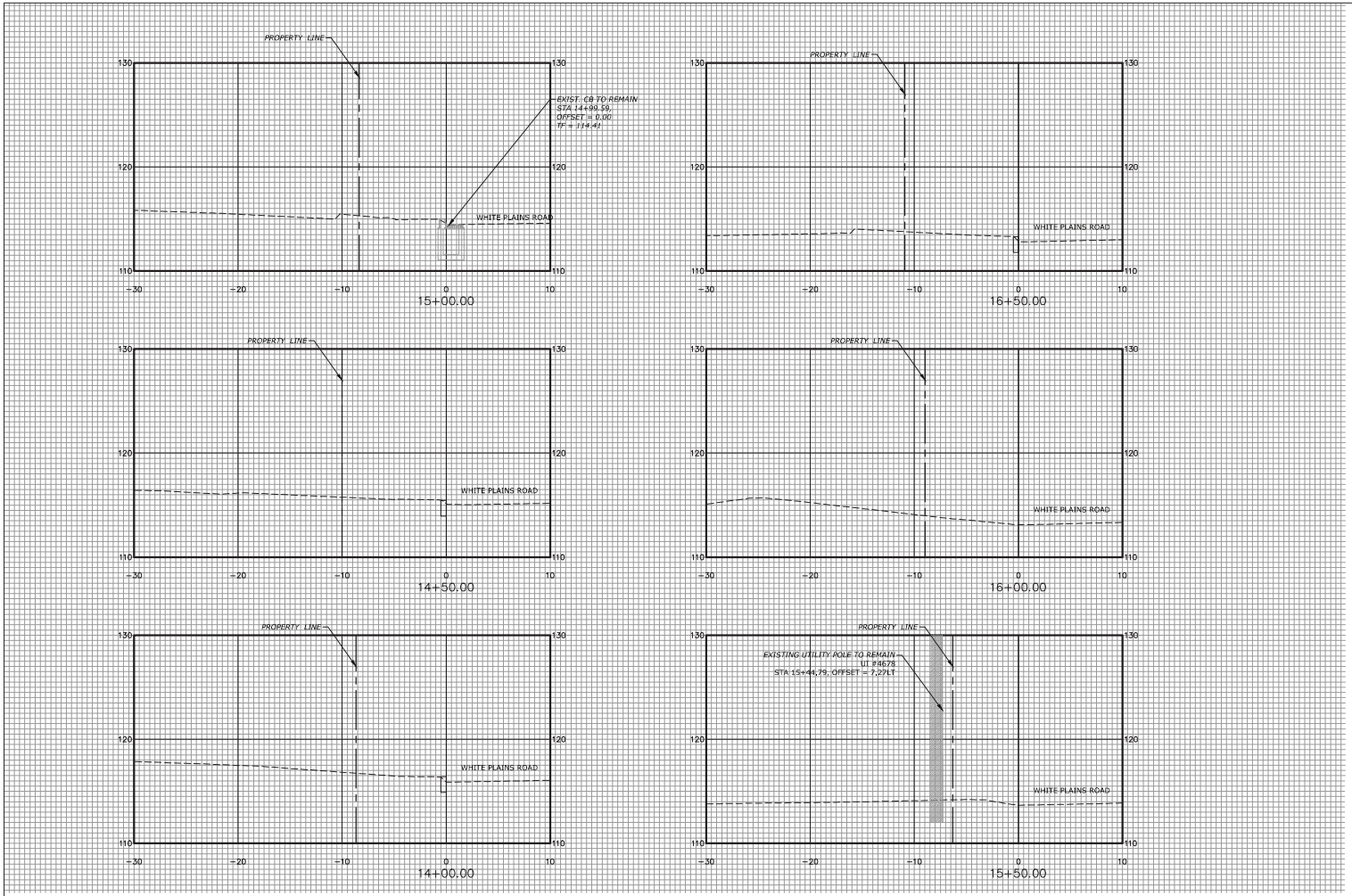
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PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL**
**SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **144-192**
DRAWING NO. **XSC-03**
SHEET NO. **07.03**




| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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Plotted Date: 3/8/2019

Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB

CHECKED BY: KPG

SCALE IN FEET
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SCALE 1"=5'

**TOWN OF TRUMBULL**
**CONNECTICUT**

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PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL**
**SECTION A2**

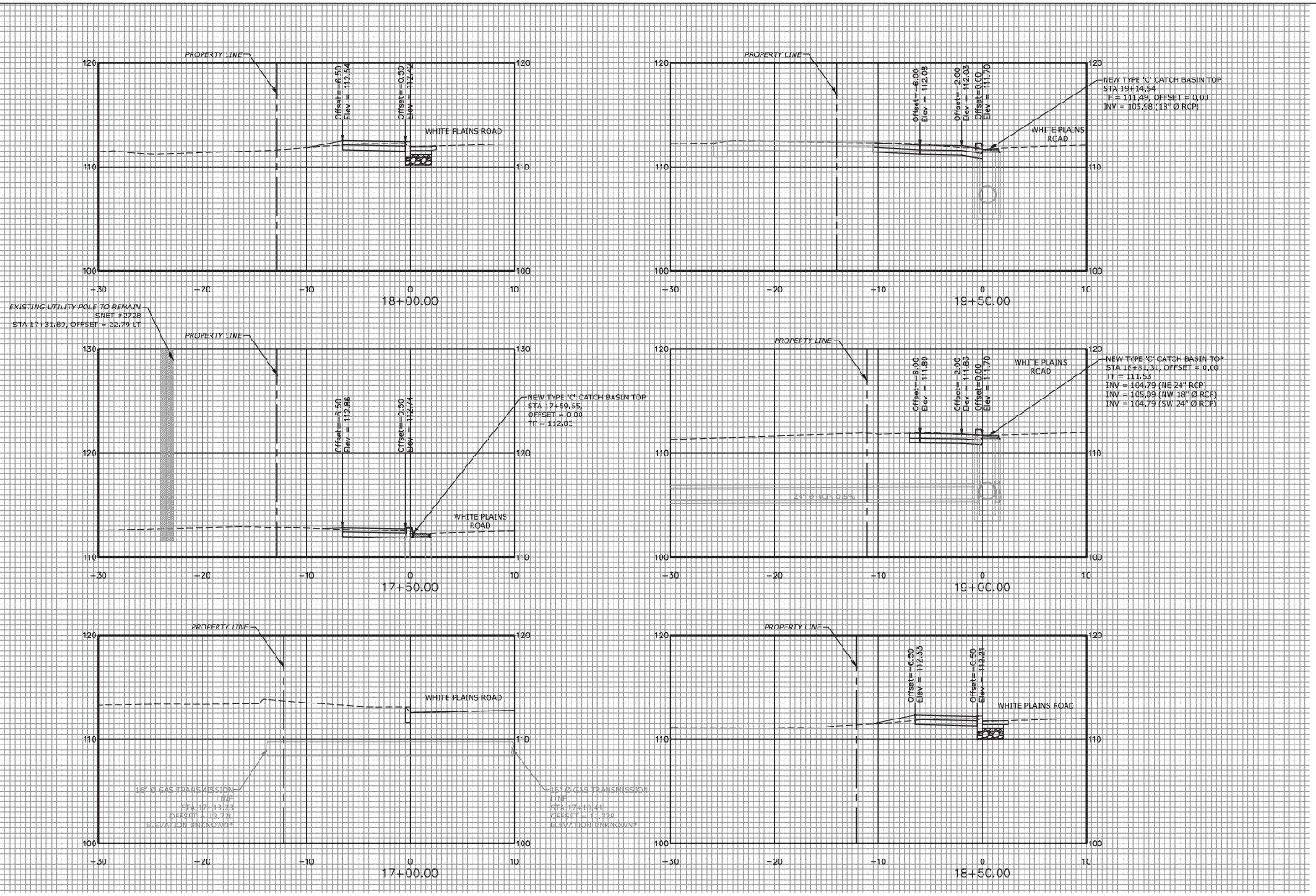
TOWN: **TRUMBULL**

DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **144-192**

DRAWING NO. **XSC-04**

SHEET NO. **07.04**




**NOTES:**

1. *THE CONTRACTOR SHALL NOTIFY KINDER MORGAN AND THE ENGINEER PRIOR TO THE START OF WORK, AS STATED IN THE NOTICE TO CONTRACTOR - PROTECTION OF EXISTING UTILITIES. REPRESENTATIVE MUST BE ON SITE FOR ALL EXCAVATIONS NEAR THEIR RESPECTIVE UTILITY

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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Plotted Date: 3/8/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
SCALE IN FEET
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SCALE 1"=5'

**TOWN OF TRUMBULL CONNECTICUT**

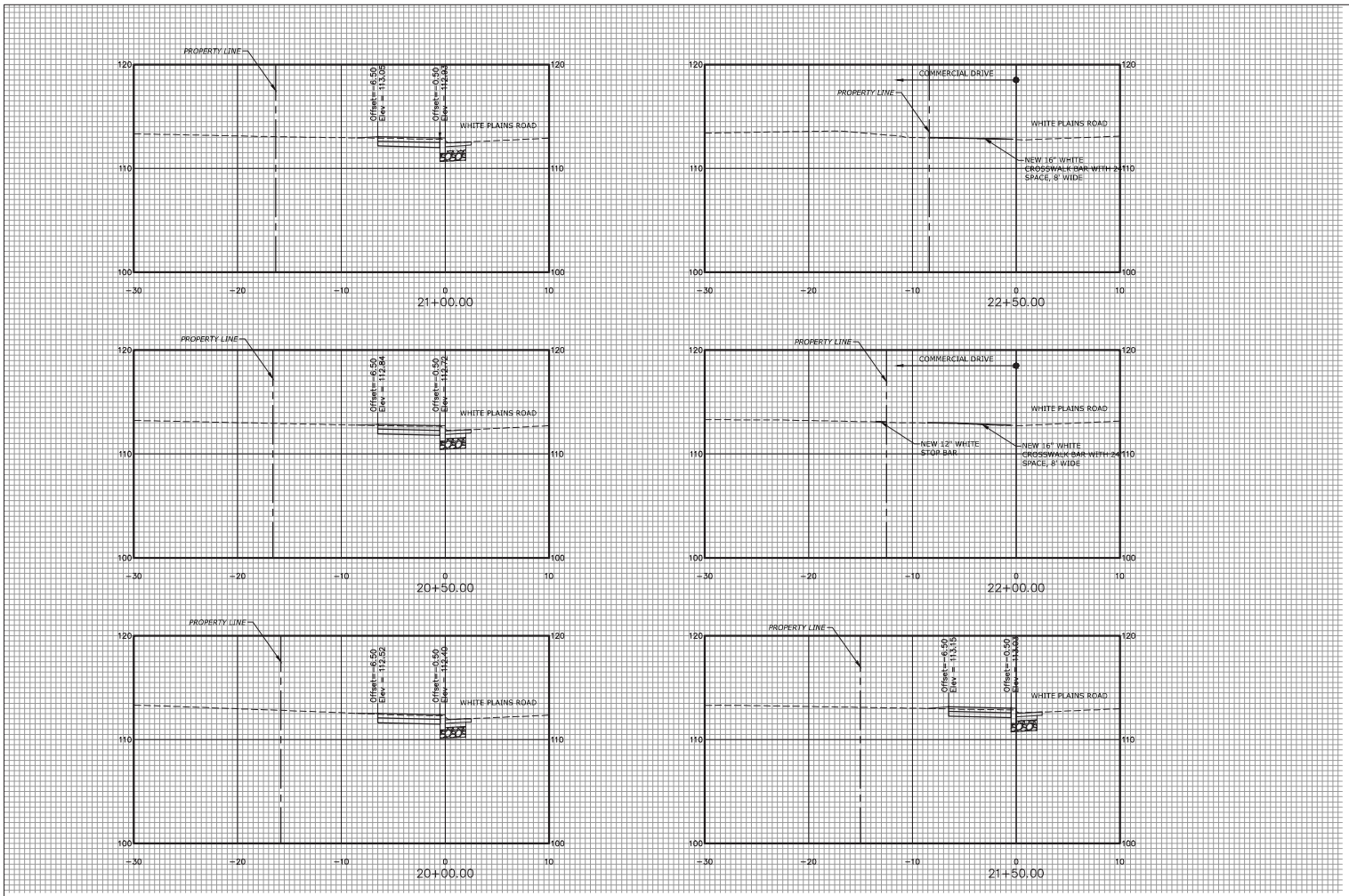
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PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **144-192**
DRAWING NO. **XSC-05**
SHEET NO. **07.05**




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Plotted Date: 3/8/2019

Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB

CHECKED BY: KPG

SCALE IN FEET

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SCALE 1"=5'

**TOWN OF TRUMBULL**
**CONNECTICUT**

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PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL**
**SECTION A2**

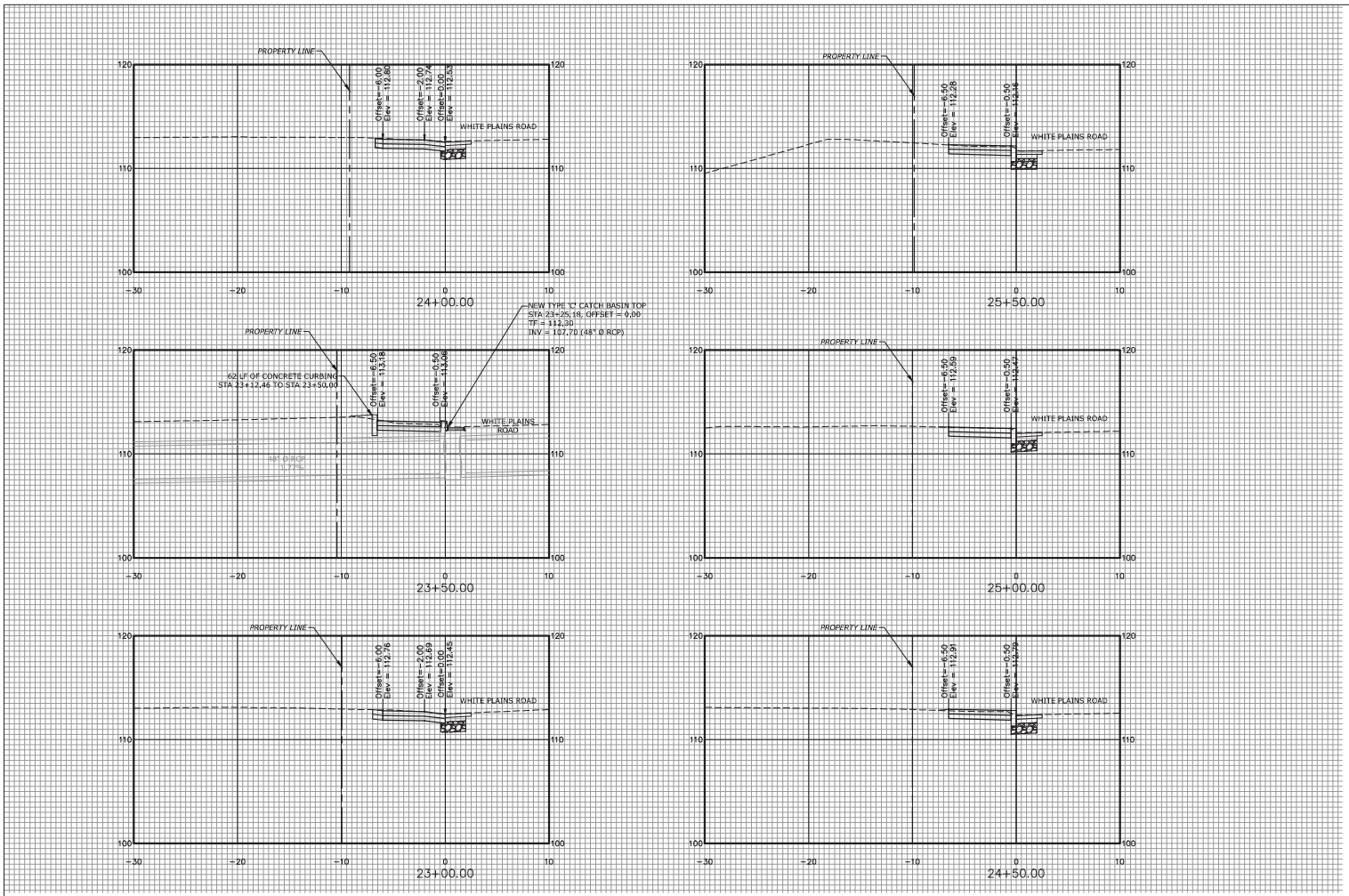
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DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **144-192**

DRAWING NO. **XSC-06**

SHEET NO. **07.06**




| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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Plotted Date: 3/8/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
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SCALE IN FEET
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SCALE 1"=5'

**TOWN OF TRUMBULL**
**CONNECTICUT**

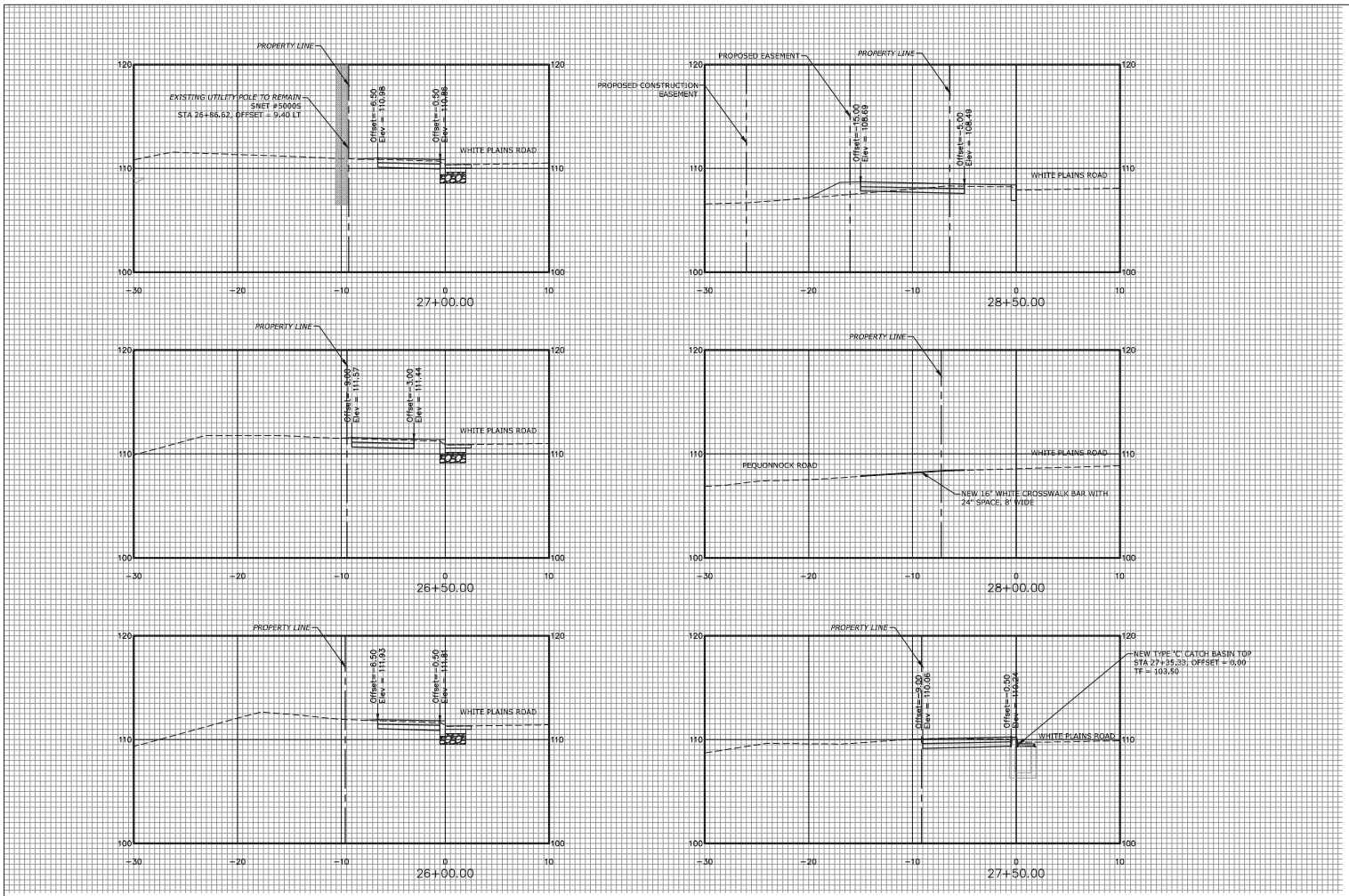
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PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL**
**SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **144-192**
DRAWING NO. **XSC-07**
SHEET NO. **07.07**




| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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Plotted Date: 3/8/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
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SCALE 1"=5'

**TOWN OF TRUMBULL**
**CONNECTICUT**

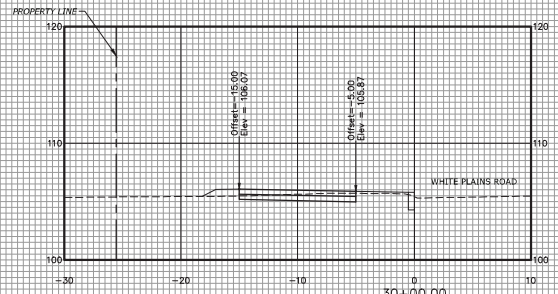
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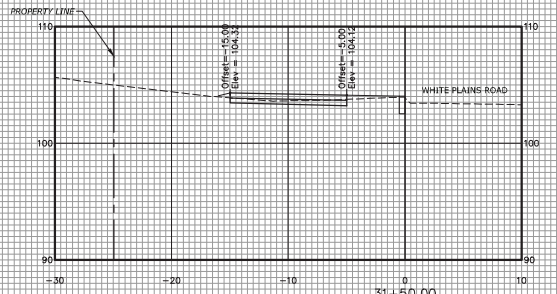

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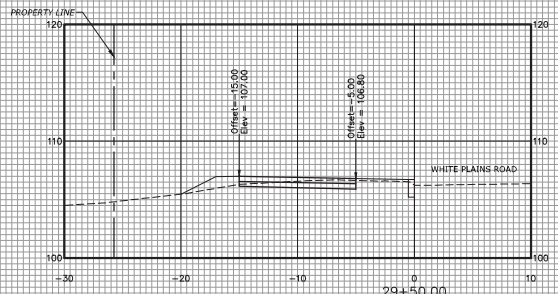

PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL**
**SECTION A2**

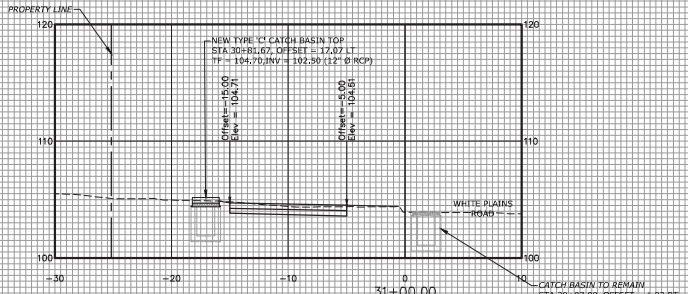
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DRAWING TITLE: **CROSS SECTIONS**

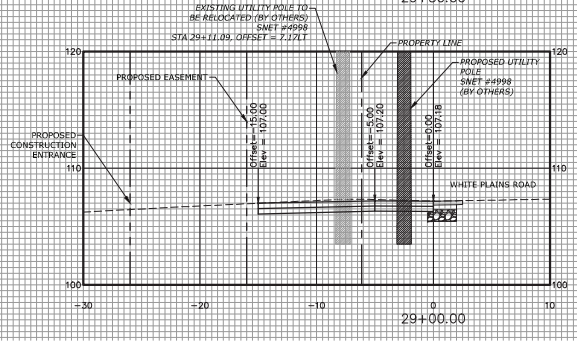
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DRAWING NO. **XSC-08**
SHEET NO. **07.08**

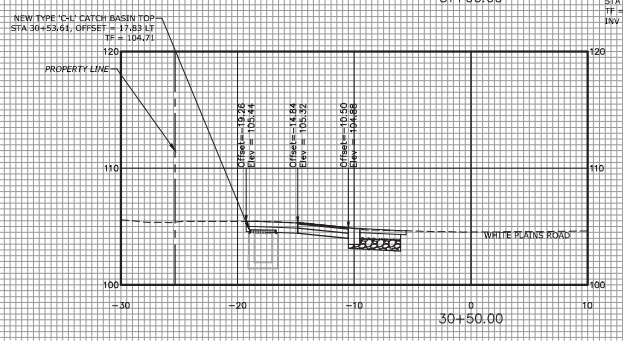



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Plotted Date: 3/8/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
SCALE IN FEET
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SCALE 1"=5'

**TOWN OF TRUMBULL CONNECTICUT**

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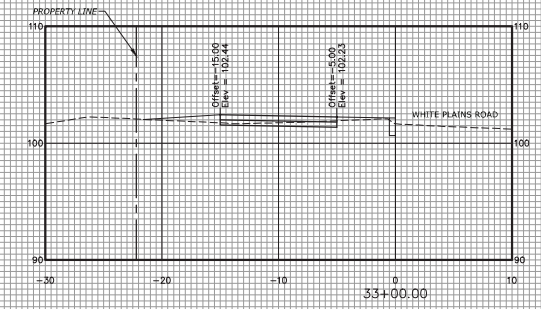
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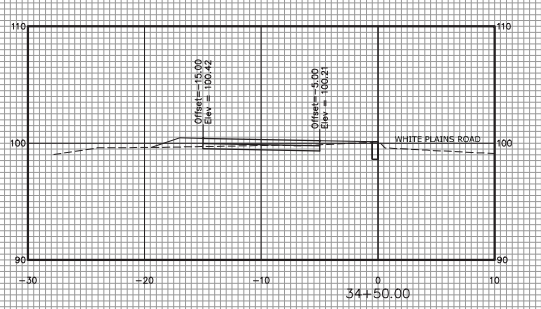
PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL SECTION A2**

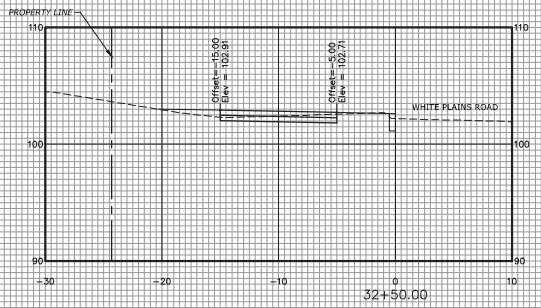
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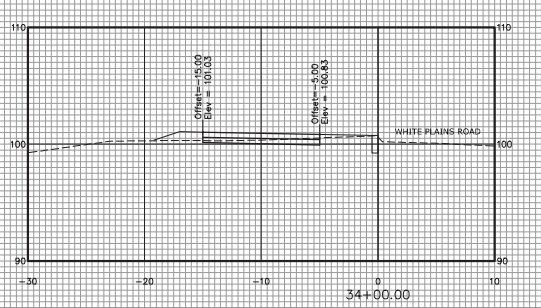
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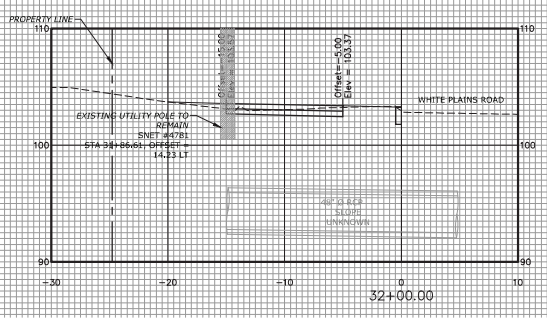
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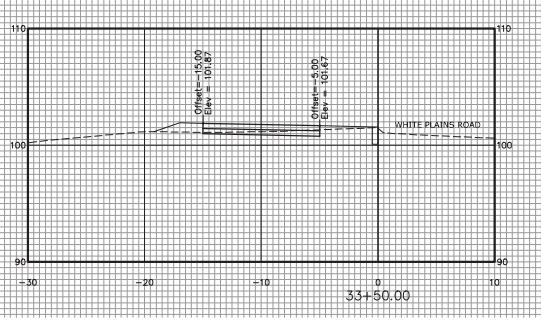



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Plotted Date: 3/8/2019
Stantec Project No.: 192310402

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SCALE 1"=5'

**TOWN OF TRUMBULL CONNECTICUT**

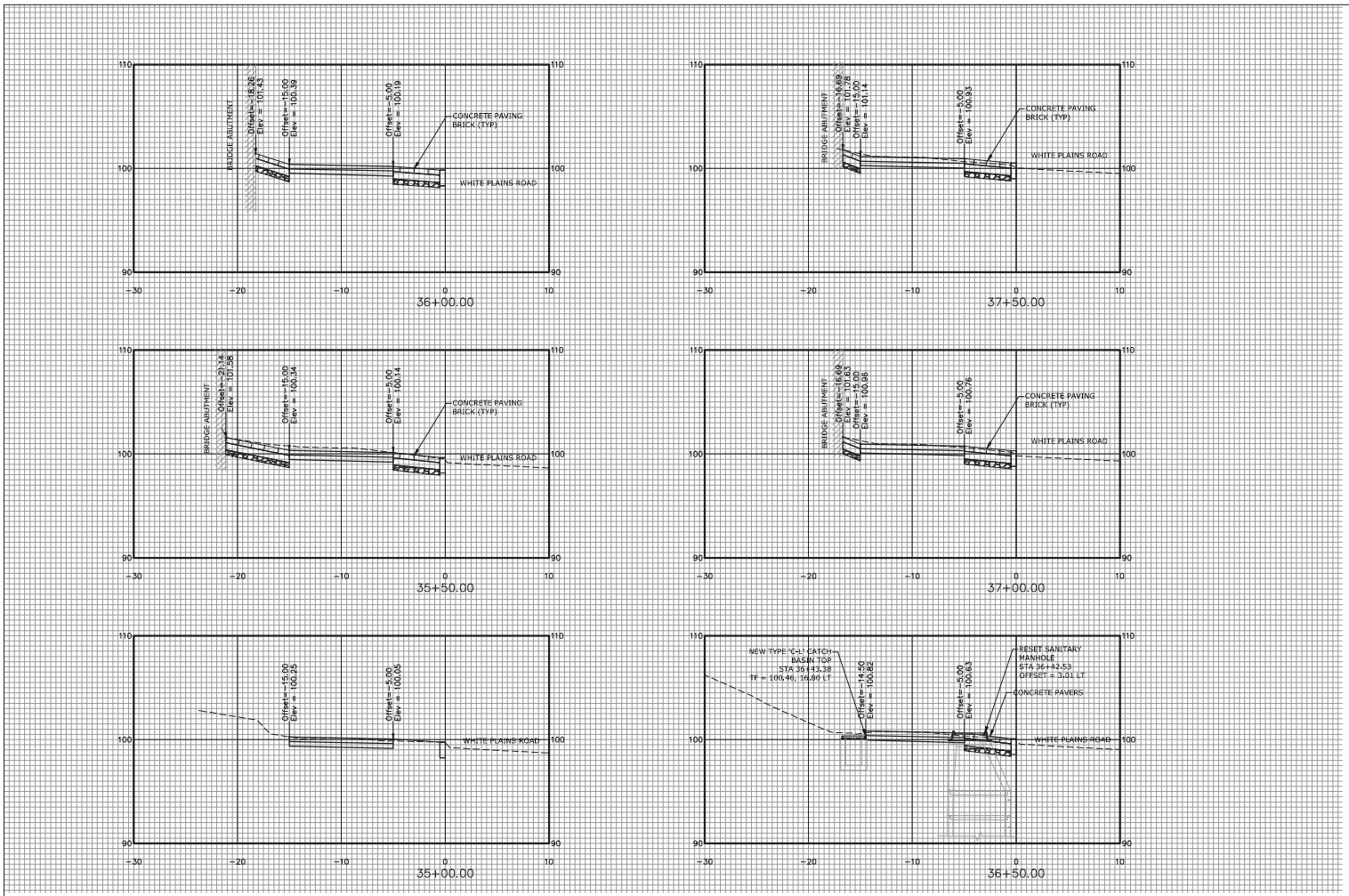
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PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **144-192**
DRAWING NO. **XSC-10**
SHEET NO. **07.10**




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Plotted Date: 3/8/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
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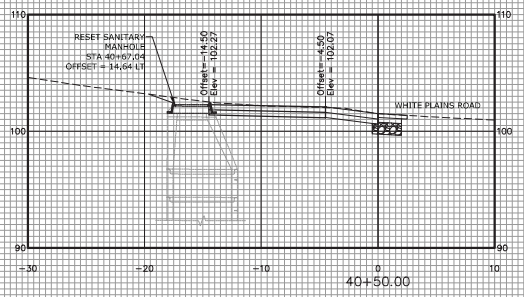
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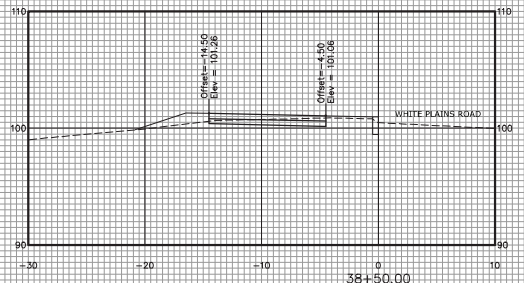
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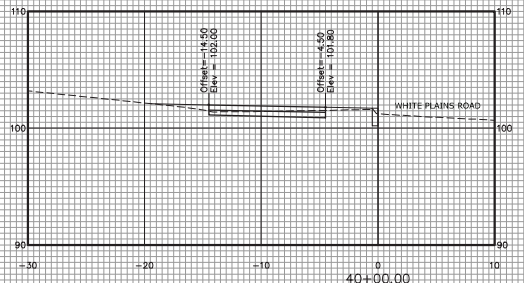
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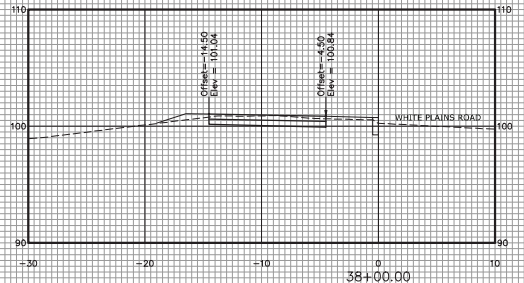
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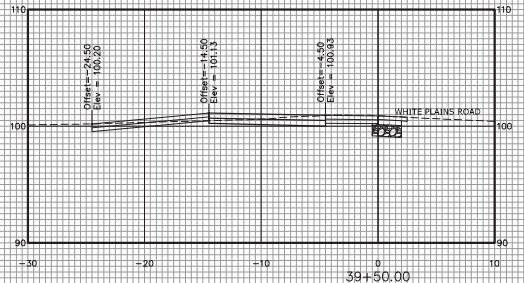



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Plotted Date: 3/8/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
SCALE IN FEET 0 5 10
SCALE 1"=5'

**TOWN OF TRUMBULL CONNECTICUT**

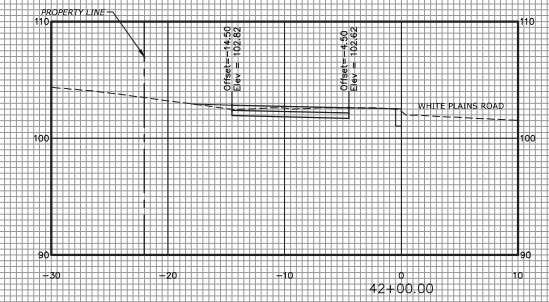
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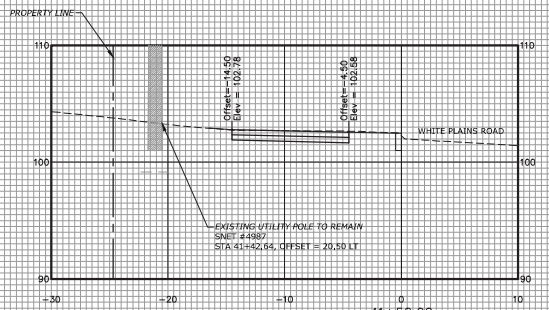
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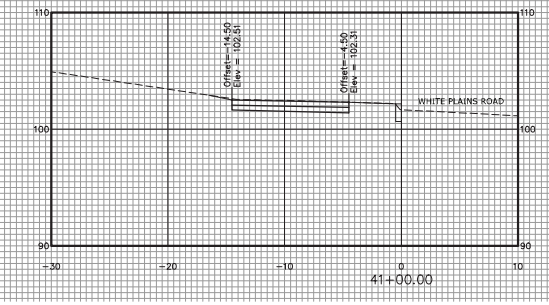
PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **144-192**
DRAWING NO. **XSC-12**
SHEET NO. **07.12**




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Plotted Date: 3/8/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
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SCALE 1"=5'

**TOWN OF TRUMBULL**
**CONNECTICUT**

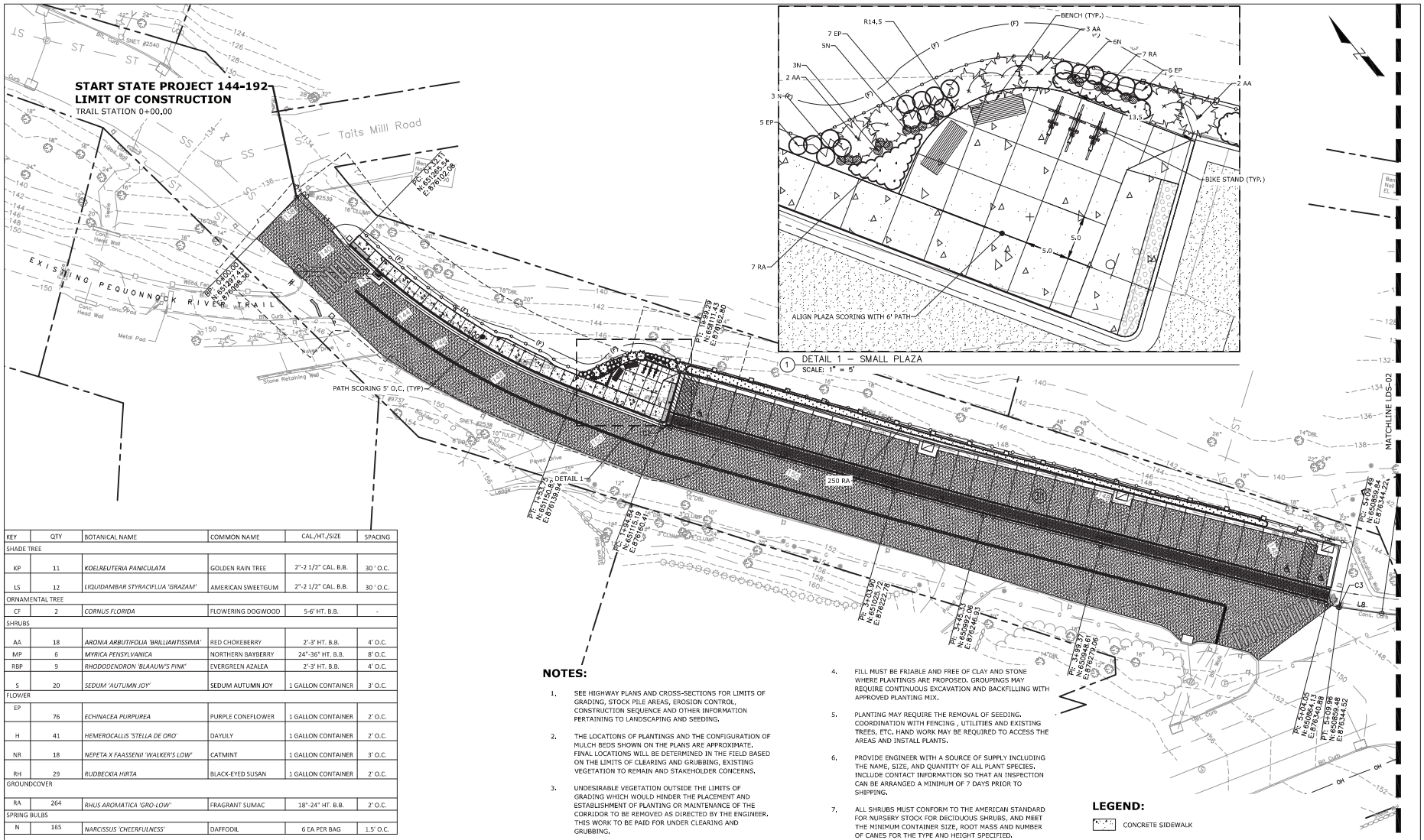
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PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL**
**SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **CROSS SECTIONS**

PROJECT NO. **144-192**
DRAWING NO. **XSC-13**
SHEET NO. **07.13**




| KEY | QTY | BOTANICAL NAME | COMMON NAME | CAL./HT./SIZE | SPACING |
|---|---|---|---|---|---|
| SHADE TREE | | | | | |
| KP | 11 | *KOELREUTERIA PANICULATA* | GOLDEN RAIN TREE | 2"-2 1/2" CAL. B.B. | 30 ' O.C. |
| LS | 12 | *LIQUIDAMBAR STYRACIFLUA 'GRAZAM'* | AMERICAN SWEETGUM | 2"-2 1/2" CAL. B.B. | 30 ' O.C. |
| ORNAMENTAL TREE | | | | | |
| CF | 2 | *CORNUS FLORIDA* | FLOWERING DOGWOOD | 5-6' HT. B.B. | - |
| SHRUBS | | | | | |
| AA | 18 | *ARONIA ARBUTIFOLIA 'BRILLIANTISSIMA'* | RED CHOKEBERRY | 2'-3' HT. B.B. | 4' O.C. |
| MP | 6 | *MYRICA PENSYLVANICA* | NORTHERN BAYBERRY | 24"-36" HT. B.B. | 8' O.C. |
| RBP | 9 | *RHODODENDRON 'BLAAUW'S PINK'* | EVERGREEN AZALEA | 2'-3' HT. B.B. | 4' O.C. |
| S | 20 | *SEDUM 'AUTUMN JOY'* | SEDUM AUTUMN JOY | 1 GALLON CONTAINER | 3' O.C. |
| FLOWER | | | | | |
| EP | 76 | *ECHINACEA PURPUREA* | PURPLE CONEFLOWER | 1 GALLON CONTAINER | 2' O.C. |
| H | 41 | *HEMEROCALLIS 'STELLA DE ORO'* | DAYLILY | 1 GALLON CONTAINER | 2' O.C. |
| NR | 18 | *NEPETA X FAASSENII 'WALKER'S LOW'* | CATMINT | 1 GALLON CONTAINER | 3' O.C. |
| RH | 29 | *RUDBECKIA HIRTA* | BLACK-EYED SUSAN | 1 GALLON CONTAINER | 2' O.C. |
| GROUNDCOVER | | | | | |
| RA | 264 | *RHUS AROMATICA 'GRO-LOW'* | FRAGRANT SUMAC | 18"-24" HT. B.B. | 2' O.C. |
| SPRING BULBS | | | | | |
| N | 165 | *NARCISSUS 'CHEERFULNESS'* | DAFFODIL | 6 EA PER BAG | 1.5' O.C. |

## NOTES:

1. SEE HIGHWAY PLANS AND CROSS-SECTIONS FOR LIMITS OF GRADING, STOCK PILE AREAS, EROSION CONTROL, CONSTRUCTION SEQUENCE AND OTHER INFORMATION PERTAINING TO LANDSCAPING AND SEEDING.
2. THE LOCATIONS OF PLANTINGS AND THE CONFIGURATION OF MULCH BEDS SHOWN ON THE PLANS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED IN THE FIELD BASED ON THE LIMITS OF CLEARING AND GRUBBING, EXISTING VEGETATION TO REMAIN AND STAKEHOLDER CONCERNS.
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7. ALL SHRUBS MUST CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK FOR DECIDUOUS SHRUBS, AND MEET THE MINIMUM CONTAINER SIZE, ROOT MASS AND NUMBER OF CANES FOR THE TYPE AND HEIGHT SPECIFIED.

## LEGEND:

CONCRETE SIDEWALK

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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Plotted Date: 3/8/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
SCALE IN FEET 0 20 40
SCALE 1" =20'

**TOWN OF TRUMBULL CONNECTICUT**

Filename: U:\192310402\drawing\plot sheets\06_08.01-08.07_LDS_Landscaping Plan_2019.dwg

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PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**

DRAWING TITLE: **LANDSCAPING PLAN**

PROJECT NO. **144-192**
DRAWING NO. **LDS-01**
SHEET NO. **08.01**

## NOTES:

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2. EXISTING PLANTINGS WITHIN THIS AREA SHALL REMAIN TO THE GREATEST EXTENT POSSIBLE, AREA SHALL BE SUPPLEMENTED WITH WOOD CHIP MULCH TO MATCH EXISTING.
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## LEGEND:

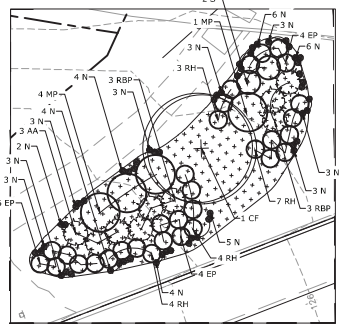
- CONCRETE SIDEWALK
- CONCRETE PAVING BRICK (4" X 8" X 2-3/8")
- WOOD MULCH

MATCHLINE LDS-01

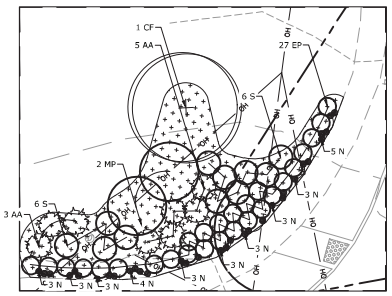
**CONTINUE STATE PROJECT 144-192**
**ALONG WHITE PLAINS ROAD (ROUTE 127)**
TRAIL STATION 10+00.00
MEET EXISTING CROSSWALK AND CONC. WALK

**LIMIT STATE PROJECT 144-192**
**ALONG CHURCH HILL ROAD**
TRAIL STATION 8+58.00

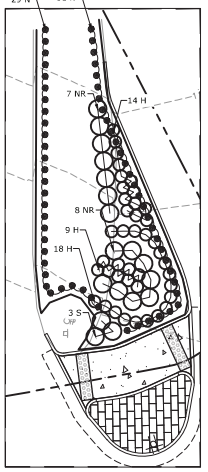
WOOD MULCH (TYP)
WOOD MULCH (SEE NOTE 2)
PATH SCORING 5' O.C. (TYP)
DETAIL 1
DETAIL 2
DETAIL 3
TAITS MILL ROAD
White Plains Road
WHITE PLAINS ROAD (ROUTE 127)
Church Hill Road
CHURCH HILL ROAD (ROUTE 127)
DANIELS FARM ROAD (SR 734)
Grandview Drive



1 DETAIL 1 – PLANTING BED
SCALE: 1" = 10'



2 DETAIL 2 – PLANTING BED
SCALE: 1" = 10'



3 DETAIL 3 – PLANTING BED
SCALE: 1" = 10'

MATCHLINE LDS-03

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
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SCALE IN FEET 0 20 40
SCALE 1"=20'

**TOWN OF TRUMBULL CONNECTICUT**

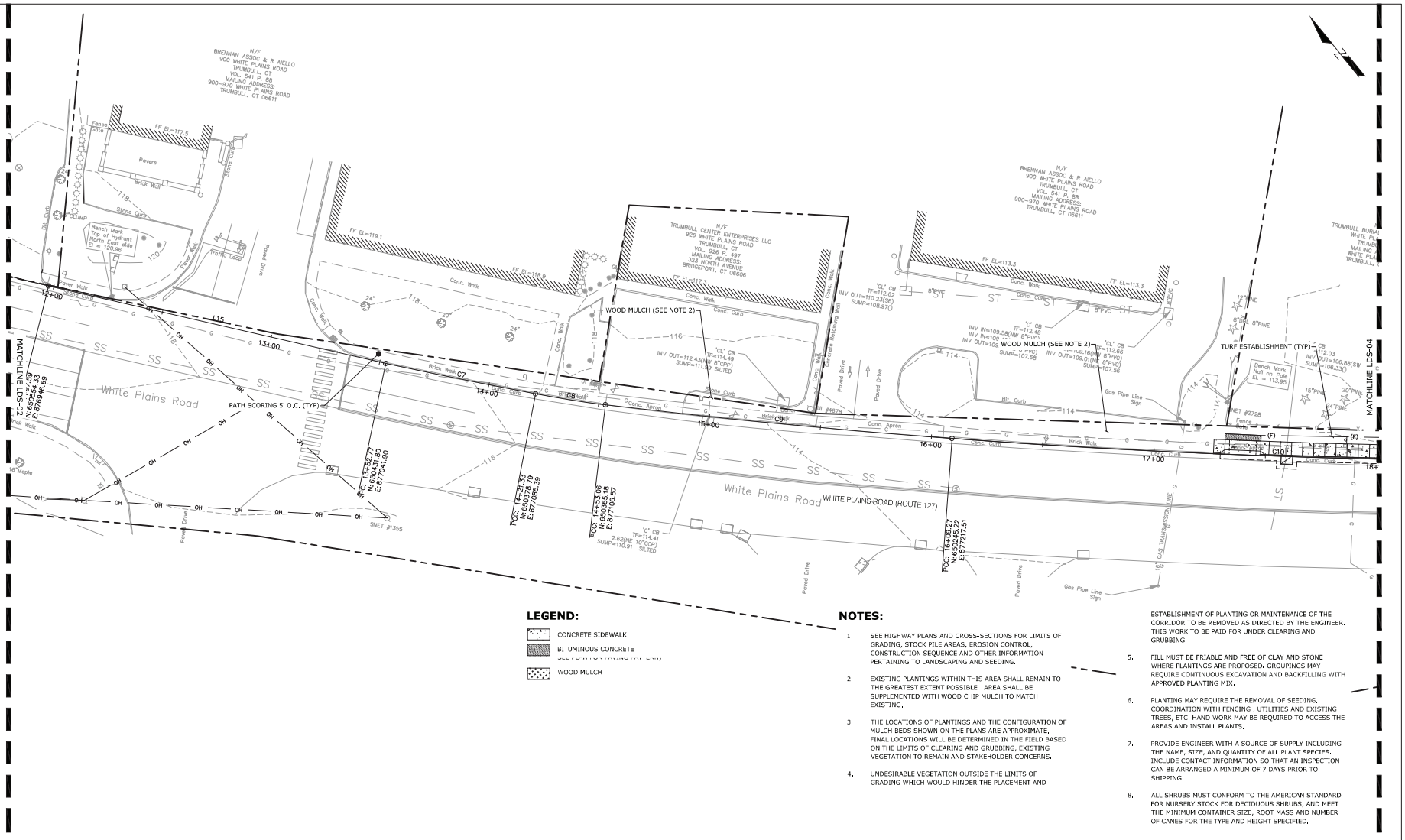
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PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **LANDSCAPING PLAN**

PROJECT NO. **144-192**
DRAWING NO. **LDS-02**
SHEET NO. **08.02**




**LEGEND:**

- CONCRETE SIDEWALK
- BITUMINOUS CONCRETE
- WOOD MULCH

**NOTES:**

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SCALE 1"=20'

**TOWN OF TRUMBULL CONNECTICUT**

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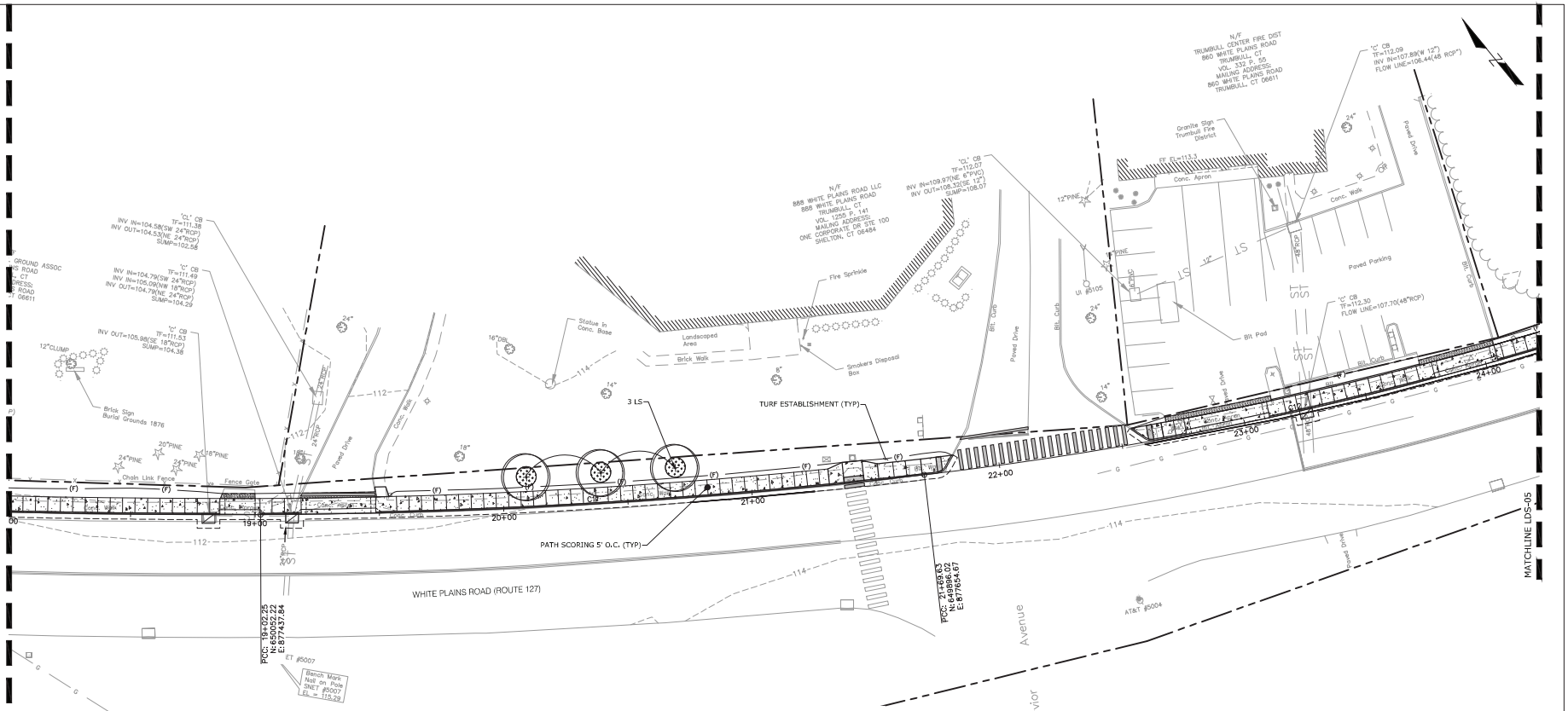
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PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**

DRAWING TITLE: **LANDSCAPING PLAN**

PROJECT NO. **144-192**
DRAWING NO. **LDS-03**
SHEET NO. **08.03**




## LEGEND:

- CONCRETE SIDEWALK
- 10' WIDE MULTI-USE PATH
  BASE BID: BIT. CONC. - (TO BE PAID UNDER ITEM 0922001)
  ALTERNATE NO. 1: CONCRETE - (TO BE PAID FOR UNDER ITEM 0921001, SEE PLAN FOR PAVING PATTERN)
- WOOD MULCH

## NOTES:

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SCALE 1" =20'

**TOWN OF TRUMBULL CONNECTICUT**

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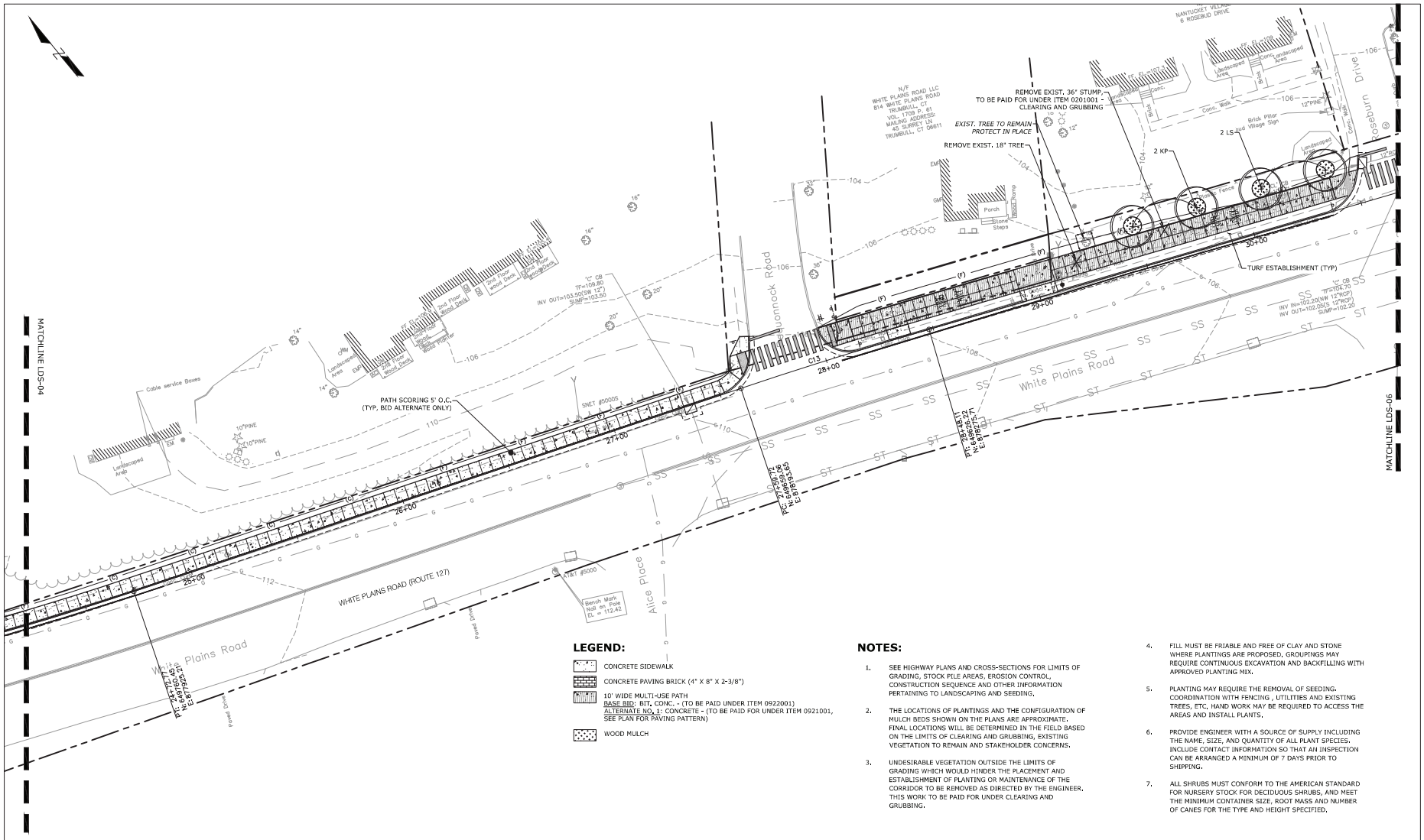

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PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**

DRAWING TITLE: **LANDSCAPING PLAN**

PROJECT NO. **144-192**
DRAWING NO. **LDS-04**
SHEET NO. **08.04**




## LEGEND:

- CONCRETE SIDEWALK
- CONCRETE PAVING BRICK (4" X 8" X 2-3/8")
- 10' WIDE MULTI-USE PATH
  BASE BID: BIT. CONC. - (TO BE PAID UNDER ITEM 0922001)
  ALTERNATE NO. 1: CONCRETE - (TO BE PAID FOR UNDER ITEM 0921001, SEE PLAN FOR PAVING PATTERN)
- WOOD MULCH

## NOTES:

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DESIGNER/DRAFTER: ENB
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SCALE IN FEET 0 20 40
SCALE 1" =20'

**TOWN OF TRUMBULL CONNECTICUT**

Filename: U:\192310402\drawing\plot sheets\06_08.01-08.07_LDS_Landscaping Plan_2019.dwg6510

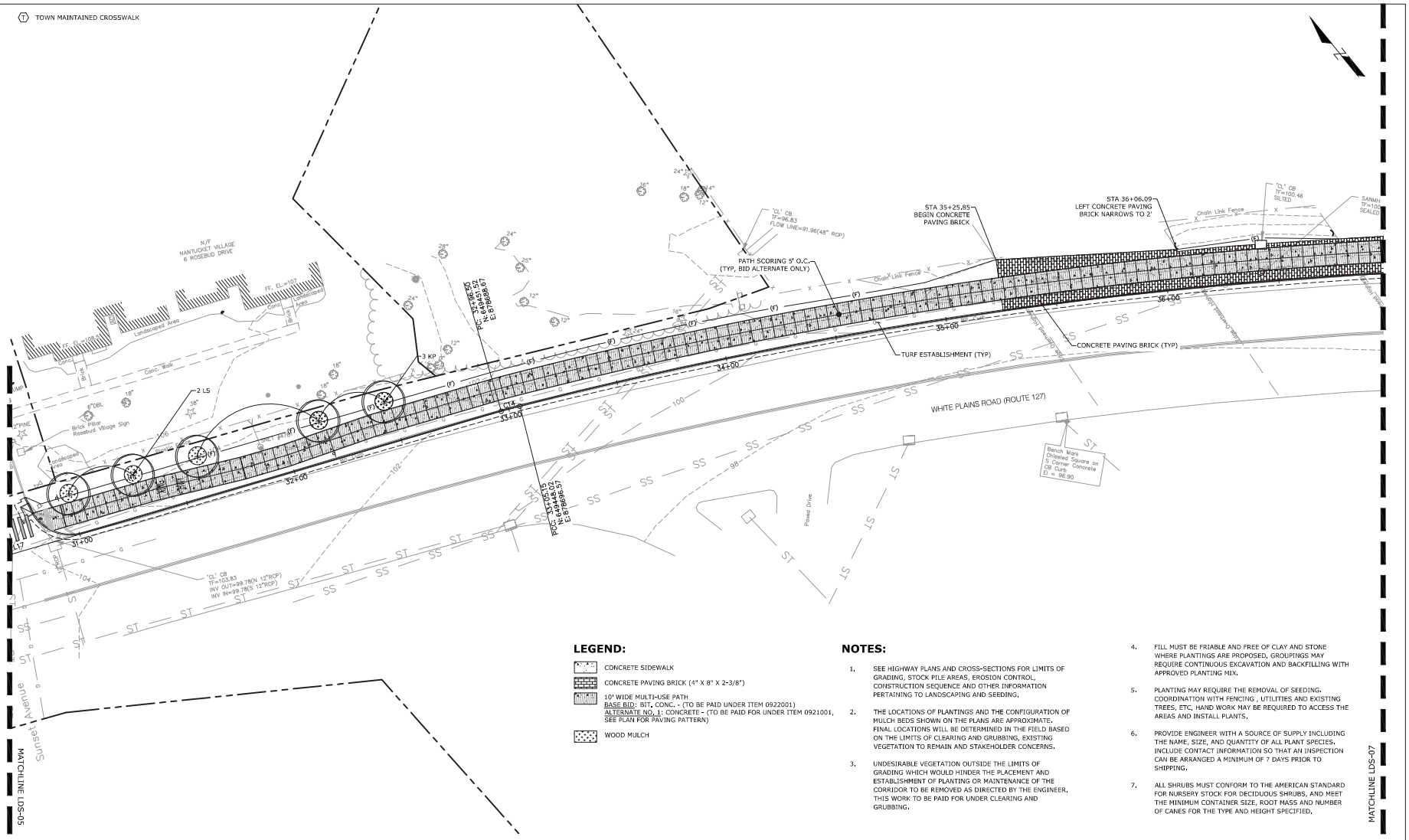
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PROJECT TITLE: **PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**

DRAWING TITLE: **LANDSCAPING PLAN**

PROJECT NO. **144-192**
DRAWING NO. **LDS-05**
SHEET NO. **08.05**




## LEGEND:

- CONCRETE SIDEWALK
- CONCRETE PAVING BRICK (4" X 8" X 2-3/8")
- 10' WIDE MULTI-USE PATH
  BASE BID: BIT. CONC. - (TO BE PAID UNDER ITEM 0922001)
  ALTERNATE NO. 1: CONCRETE - (TO BE PAID FOR UNDER ITEM 0921001, SEE PLAN FOR PAVING PATTERN)
- WOOD MULCH

## NOTES:

1. SEE HIGHWAY PLANS AND CROSS-SECTIONS FOR LIMITS OF GRADING, STOCK PILE AREAS, EROSION CONTROL, CONSTRUCTION SEQUENCE AND OTHER INFORMATION PERTAINING TO LANDSCAPING AND SEEDING.
2. THE LOCATIONS OF PLANTINGS AND THE CONFIGURATION OF MULCH BEDS SHOWN ON THE PLANS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED IN THE FIELD BASED ON THE LIMITS OF CLEARING AND GRUBBING, EXISTING VEGETATION TO REMAIN AND STAKEHOLDER CONCERNS.
3. UNDESIRABLE VEGETATION OUTSIDE THE LIMITS OF GRADING WHICH WOULD HINDER THE PLACEMENT AND ESTABLISHMENT OF PLANTING OR MAINTENANCE OF THE CORRIDOR TO BE REMOVED AS DIRECTED BY THE ENGINEER. THIS WORK TO BE PAID FOR UNDER CLEARING AND GRUBBING.
4. FILL MUST BE FRIABLE AND FREE OF CLAY AND STONE WHERE PLANTINGS ARE PROPOSED. GROUPINGS MAY REQUIRE CONTINUOUS EXCAVATION AND BACKFILLING WITH APPROVED PLANTING MIX.
5. PLANTING MAY REQUIRE THE REMOVAL OF SEEDING. COORDINATION WITH FENCING , UTILITIES AND EXISTING TREES, ETC, HAND WORK MAY BE REQUIRED TO ACCESS THE AREAS AND INSTALL PLANTS.
6. PROVIDE ENGINEER WITH A SOURCE OF SUPPLY INCLUDING THE NAME, SIZE, AND QUANTITY OF ALL PLANT SPECIES. INCLUDE CONTACT INFORMATION SO THAT AN INSPECTION CAN BE ARRANGED A MINIMUM OF 7 DAYS PRIOR TO SHIPPING.
7. ALL SHRUBS MUST CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK FOR DECIDUOUS SHRUBS, AND MEET THE MINIMUM CONTAINER SIZE, ROOT MASS AND NUMBER OF CANES FOR THE TYPE AND HEIGHT SPECIFIED.

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Plotted Date: 3/8/2019
Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
SCALE IN FEET 0 20 40
SCALE 1" =20'

**TOWN OF TRUMBULL CONNECTICUT**

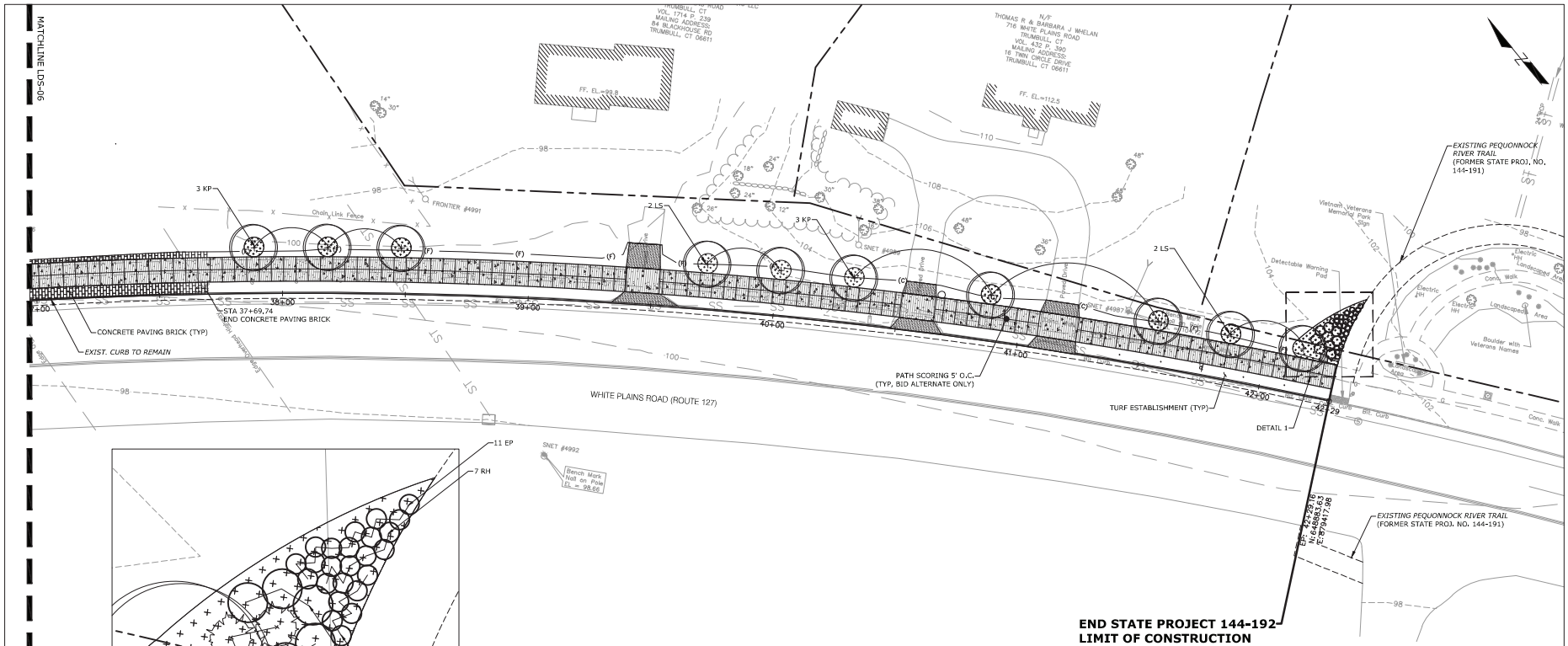
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PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **LANDSCAPING PLAN**

PROJECT NO. **144-192**
DRAWING NO. **LDS-06**
SHEET NO. **08.06**




1 DETAIL 1 – PLANTING BED
SCALE: 1" = 5'

**END STATE PROJECT 144-192**
**LIMIT OF CONSTRUCTION**
TRAIL STATION 42+29.17
MEET STATE PROJECT 144-191
MATCH TRAIL FLUSH WITH EXIST. TRAIL

## LEGEND:

- CONCRETE SIDEWALK
- CONCRETE PAVING BRICK (4" X 8" X 2-3/8")
- BITUMINOUS CONCRETE
- 10' WIDE MULTI-USE PATH
  BASE BID: BIT. CONC. - (TO BE PAID UNDER ITEM 0922001)
  ALTERNATE NO. 1: CONCRETE - (TO BE PAID FOR UNDER ITEM 0921001, SEE PLAN FOR PAVING PATTERN)
- WOOD MULCH

## NOTES:

1. SEE HIGHWAY PLANS AND CROSS-SECTIONS FOR LIMITS OF GRADING, STOCK PILE AREAS, EROSION CONTROL, CONSTRUCTION SEQUENCE AND OTHER INFORMATION PERTAINING TO LANDSCAPING AND SEEDING.
2. THE LOCATIONS OF PLANTINGS AND THE CONFIGURATION OF MULCH BEDS SHOWN ON THE PLANS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED IN THE FIELD BASED ON THE LIMITS OF CLEARING AND GRUBBING, EXISTING VEGETATION TO REMAIN AND STAKEHOLDER CONCERNS.
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Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
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SCALE 1"=20'

**TOWN OF TRUMBULL CONNECTICUT**

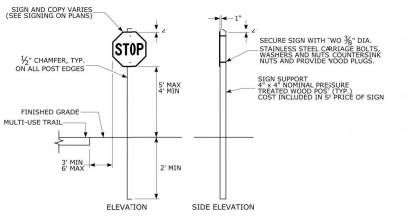
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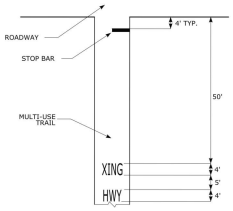
PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL SECTION A2**

TOWN: **TRUMBULL**
DRAWING TITLE: **LANDSCAPING PLAN**

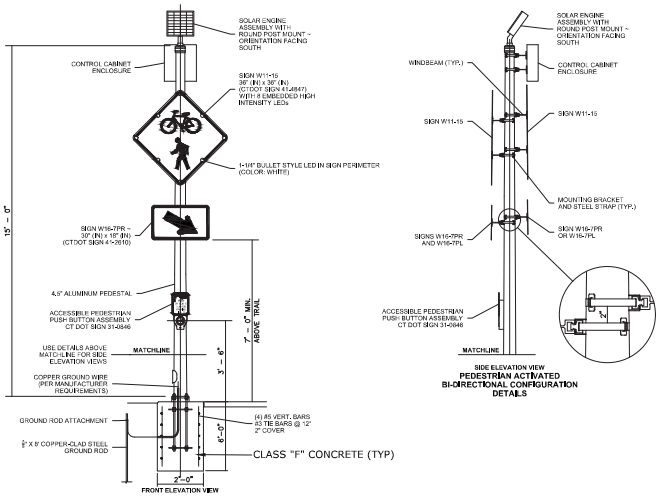
PROJECT NO. **144-192**
DRAWING NO. **LDS-07**
SHEET NO. **08.07**




1 TYPICAL INSTALLATION OF WOOD POST AND SIGN
SCALE: NTS




2 MULTI-USE TRAIL PAVEMENT MARKINGS
SCALE: NTS




PEDESTRIAN ACTIVATED LED SIGN (WITH SOLAR ENGINE)

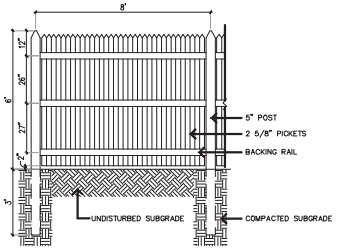
5 PEDESTRIAN ACTIVATED BLINKING LED SIGN (TO BE PAID FOR UNDER ITEM 1116100 – INTERNALLY ILLUMINATED SIGN (LED))
SCALE: NTS

CONSTRUCTION NOTES:

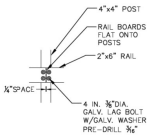
1. ALL R.O.W. SHALL BE STAKED PRIOR TO EXCAVATION.

2. THE LOCATION OF ALL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS OR TRAILS SHALL BE VERIFIED PRIOR TO INSTALLATION TO CONFIRM FREE PATH OF NOT LESS THAN 4 FEET AND ACCESSIBILITY OF PEDESTRIAN PUSH BUTTON IS PROVIDED. THE ENGINEER SHALL BE NOTIFIED IF A 4 FOOT CLEAR PATH OR ACCESSIBILITY CANNOT BE ACHIEVED.

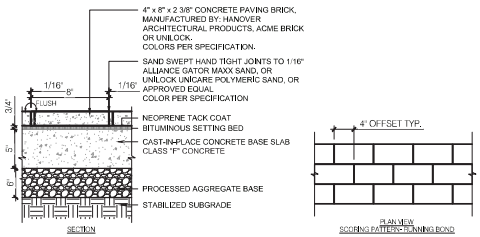
3. SEE SPECIAL PROVISION ITEM #111610 – INTERNALLY ILLUMINATED SIGN (LED) FOR ADDITIONAL INFORMATION.



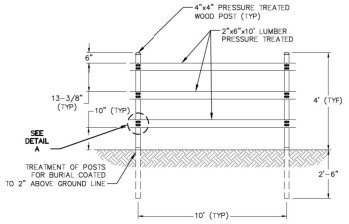

6 STOCKADE FENCE 6 FOOT HIGH – (ITEM #0906202 "WOOD FENCE")
SCALE: NTS



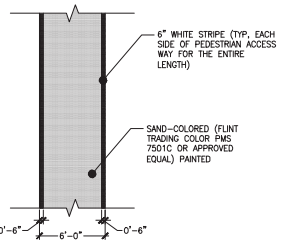

DETAIL A




4 CONCRETE PAVING BRICK DETAIL
SCALE: NTS




3 THREE RAIL WOOD FENCE
SCALE: NTS




7 PAINTED PEDESTRIAN ACCESS WAY
SCALE: NTS
NOTE: SHALL BE PAID FOR UNDER ITEM: 0406993A – BITUMINOUS CONCRETE PAVEMENT COLORING AND STAMPING. INCLUDING 6" WHITE STRIPE.

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Stantec Project No.: 192310402

DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
SCALE AS NOTED

TOWN OF TRUMBULL CONNECTICUT

Filename: U:\192310402\drawing\plot sheets\10_09.01-09.03_D-01_Site Details_2019.dwg

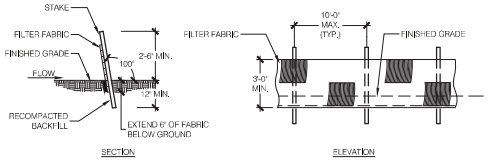
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PROJECT TITLE: PEQUONNOCK RIVER TRAIL SECTION A2

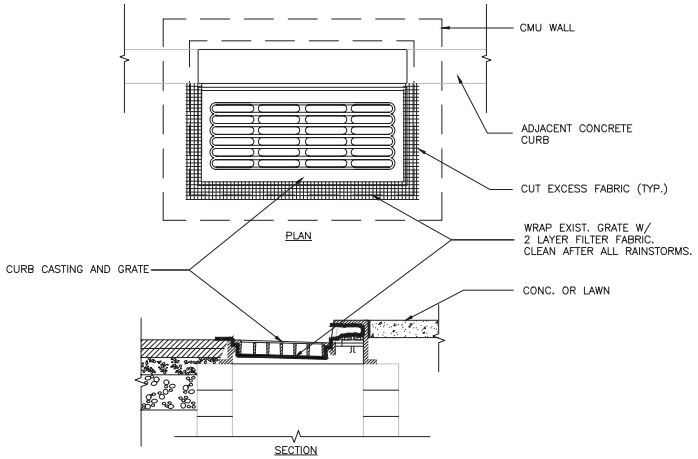
TOWN: TRUMBULL

DRAWING TITLE: SITE DETAILS

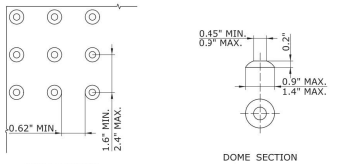
PROJECT NO. 144-192
DRAWING NO. SD-01
SHEET NO. 09.01




1 SILT FENCE DETAIL
SCALE: N.T.S.




2 FILTER FABRIC – STREET CATCH BASINS
SCALE: NTS



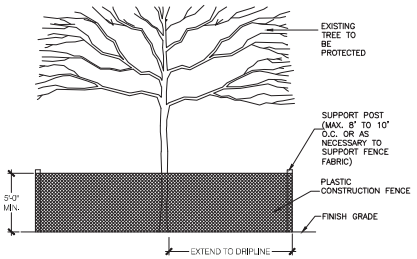

STANDARD DOME ON DETECTABLE WARNING TILES

## DETECTABLE WARNING STRIP

NOTES:

1. ALIGN DOMES ON A SQUARE GRID IN THE DIRECTION THE PEDESTRIAN IS EXPECTED TO TRAVEL. THE TRANSITION OF THE DETECTABLE WARNING STRIP (SEE MDS-04) TO THE GUTTER SHALL BE FLUSH WITHOUT A LIP.
2. INSTALL THE DETECTABLE WARNING STRIP 6" FROM THE EDGE OF THE ROAD ALONG THE FULL WIDTH OF THE CONCRETE PAVERS.
3. DETECTABLE WARNING STRIP INCLUDING CONCRETE BASE TO BE PAID FOR PER EACH UNDER THE CONTRACT ITEM NO. 0921039A

3 DETECTABLE WARNING STRIP
SCALE: NTS




NOTES:
1. NO STOCKPILING OF MATERIALS OR EQUIPMENT IS PERMITTED WITHIN TREE PROTECTION FENCE.

2. EXTENT OF TREE PROTECTION FENCE SHALL BE TO DRIPLINE OF TREE WHERE POSSIBLE. FENCE MAY BE LOCATED A MIN. OF 5'-0" FROM TRUNK OF TREE WHERE APPROVED BY LANDSCAPE ARCHITECT.

3. TREE PROTECTION TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAR FOOT OF ITEM 0949111A – "PROTECTIVE FENCING".

4 TREE PROTECTION FENCE
SCALE: NTS

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Stantec Project No.: 192310402

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SCALE AS NOTED

**TOWN OF TRUMBULL CONNECTICUT**

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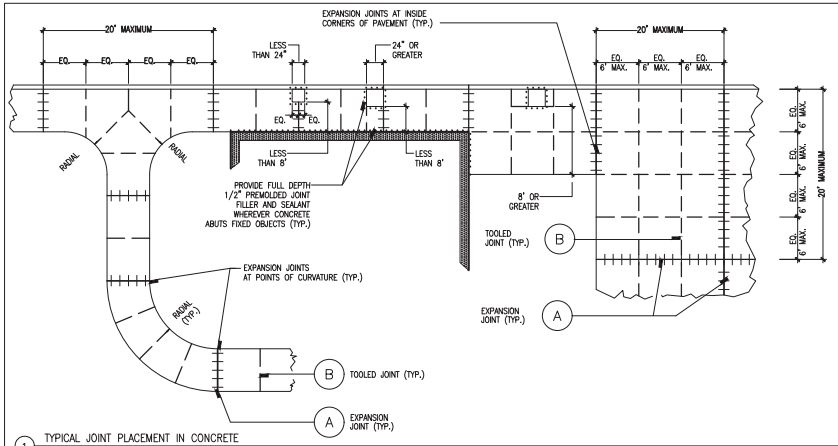
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PROJECT TITLE:
**PEQUONNOCK RIVER TRAIL SECTION A2**

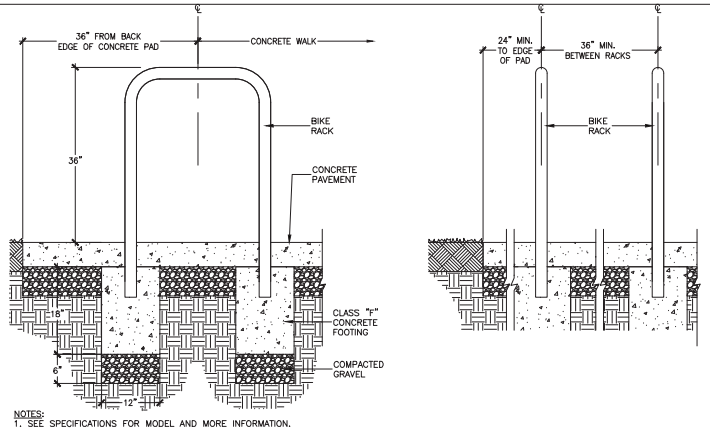
TOWN: **TRUMBULL**

DRAWING TITLE: **SITE DETAILS**

PROJECT NO. **144-192**
DRAWING NO. **SD-02**
SHEET NO. **09.02**

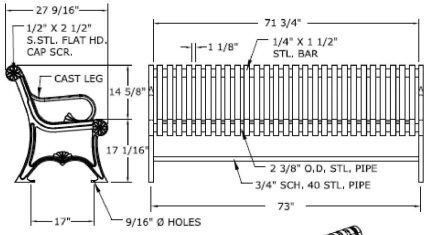



1 TYPICAL JOINT PLACEMENT IN CONCRETE
SCALE: NOT TO SCALE

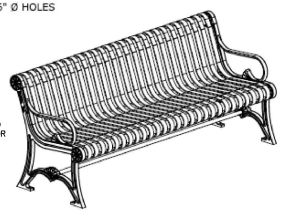



NOTES:
1. SEE SPECIFICATIONS FOR MODEL AND MORE INFORMATION.

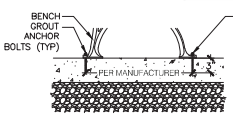
3 BICYCLE RACK
SCALE: NTS




NOTES:
1. DIMENSIONS ARE SHOWN TO GIVE A GENERAL IDEA OF THE OVERALL SIZE AND SHAPE OF THE BENCH. ACTUAL DIMENSIONS WILL VARY AND SHALL BE BASED UPON THE SELECTED MODEL AND MANUFACTURER. SEE SPECIFICATION FOR MORE INFORMATION.
2. MANUFACTURED BY DUMOR, INC. MODEL # BENCH 58; OR BELSON OUTDOORS MODEL LB-72; OR GLOBAL INDUSTRIAL MODEL WOB264385. SEE SPECIFICATION FOR ADDITIONAL MANUFACTURER CONTACT INFORMATION.
3. SIZE: 6 FOOT; COLOR: BLACK

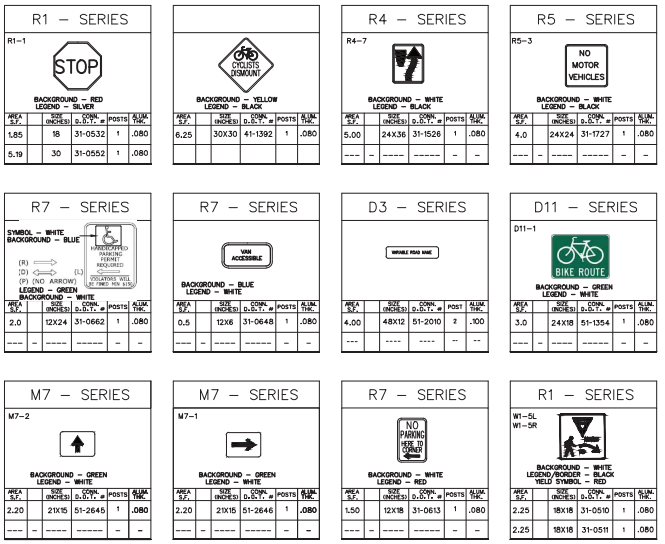


**BENCH** CONCRETE ANCHOR BOLT– PRE DRILL $\frac{7}{8}$" Ø HOLES AND SCREW $\frac{1}{2}$" X 5" SS ANCHOR BOLT WITH NUT AND WASHER. (TYP)




NOTES:
1. ANCHOR BOLTS AND THREADED RODS SHALL BE SIZED AND LOCATED PER MANUFACTURER.

2 BENCH & MOUNTING
SCALE: NTS




NOTES:
1. SIGNS SHOWN WERE CONSOLIDATED FROM CTDOT "TRAFFIC ENGINEERING – GUIDE INDEX SHEETS" AND ARE ANTICIPATED FOR THIS PROJECT; CONSOLIDATED SHEETS INCLUDE: TR-GS_01 & TR-GS_03. ALL OTHER SIGNS IN PROJECT ARE CALLED OUT AS NOTED WITH THEIR SIGN # AND IMAGE SHOWN. SIGNS NOT INCLUDED IN THESE DETAILS CAN BE FOUND IN THE CTDOT, BUREAU OF ENGINEERING & CONSTRUCTION, "CATALOG OF SIGNS", DATED: JULY 21, 2016.
2. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS" AS SPECIFIED IN THE MUTCD. SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
3. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
4. ALL COLORS SHALL BE RETROREFLECTIVE SHEETING WITH THE EXCEPTION OF BLACK WHICH SHALL BE OPAQUE. STOP SIGNS SHALL USE TYPE IX RETROREFLECTIVE SHEETING.

4 SIGN DETAILS AND NOTES
SCALE: NTS

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DESIGNER/DRAFTER: ENB
CHECKED BY: KPG
SCALE AS NOTED

**TOWN OF TRUMBULL CONNECTICUT**

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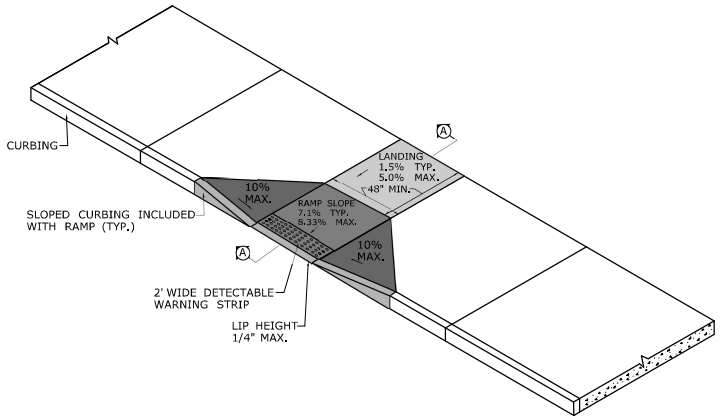
TOWN: **TRUMBULL**

DRAWING TITLE: **SITE DETAILS TRAIL DETAILS**

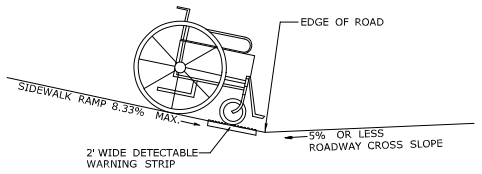
PROJECT NO. **144-192**
DRAWING NO. **SD-03**
SHEET NO. **09.03**

**GENERAL NOTES:**

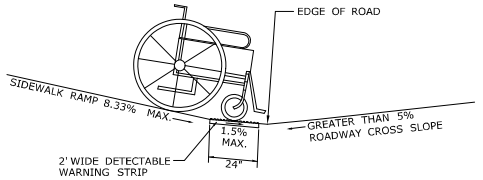
1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED $\frac{1}{4}$ INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE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



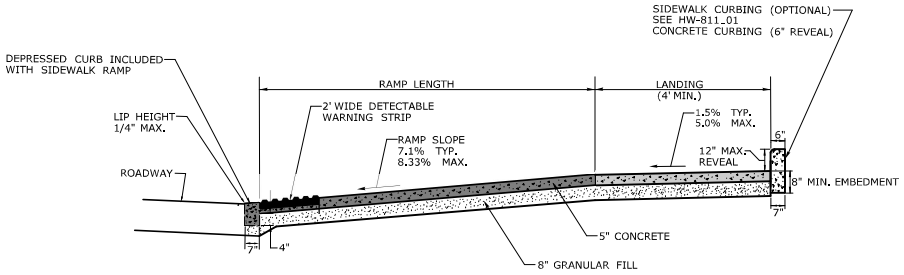

**PERPENDICULAR SIDEWALK RAMP**



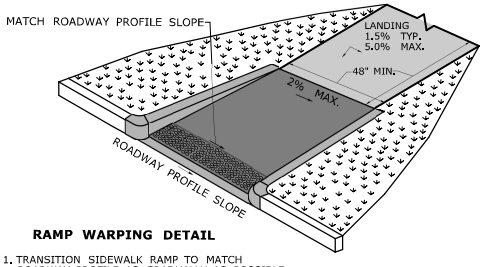

**SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF 5% OR LESS**




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




**SECTION AA**




**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.

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

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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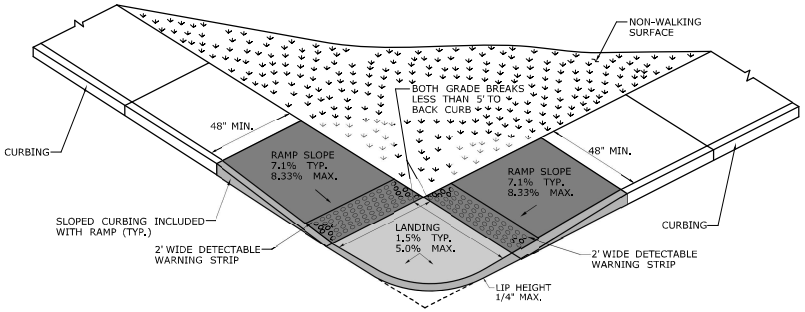
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OFFICE OF ENGINEERING
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PROJECT TITLE: - - -

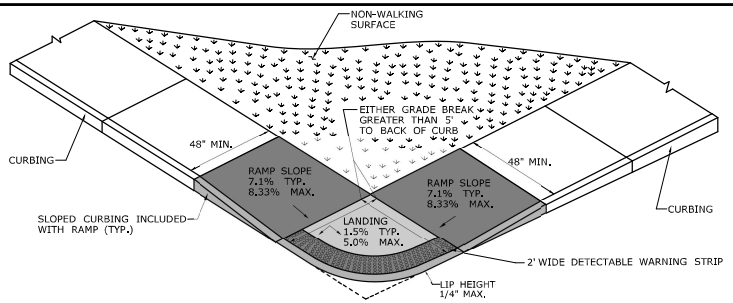
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DRAWING TITLE: **SIDEWALK RAMPS SHEET 1**

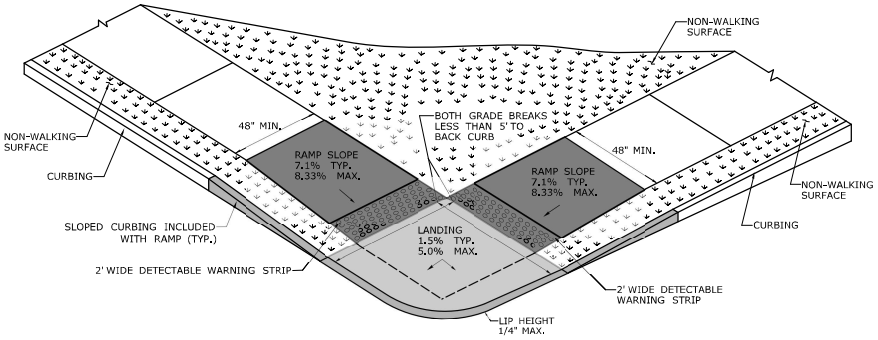
PROJECT NO. -
DRAWING NO. **SD-04**
SHEET NO. **09.04**



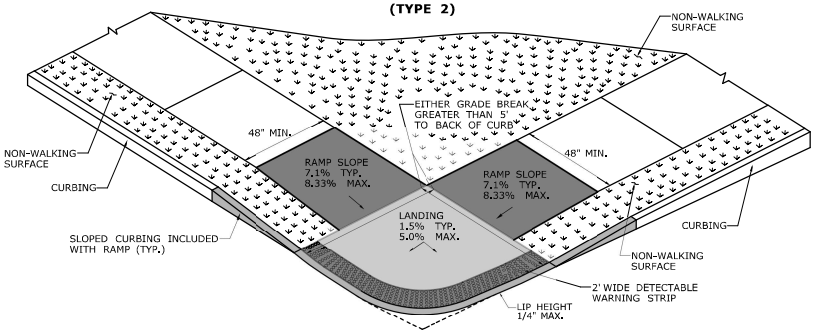

**PERPENDICULAR RAMP WITH A GRADE BREAK OF 5' OR LESS (TYPE 1)**



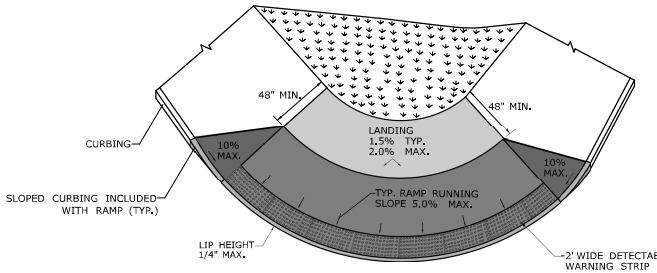

**BLENDED TRANSITION WITH GRADE BREAK GREATER THAN 5' (TYPE 2)**




**PERPENDICULAR RAMP WITH A GRADE BREAK TO BACK OF CURB OF 5' OR LESS (TYPE 3)**




**BLENDED TRANSITION WITH A GRADE BREAK TO BACK OF CURB GREATER THAN 5' (TYPE 4)**




**BLENDED TRANSITION WITH LANDING AT TOP (TYPE 5)**

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

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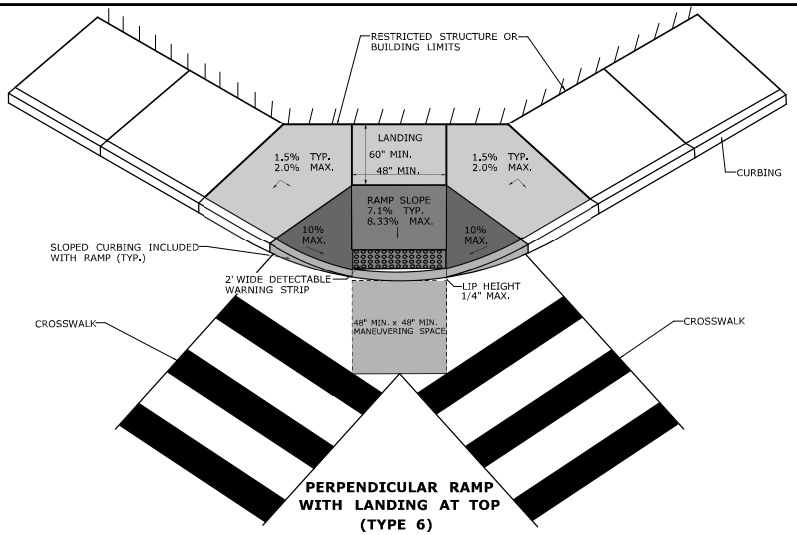
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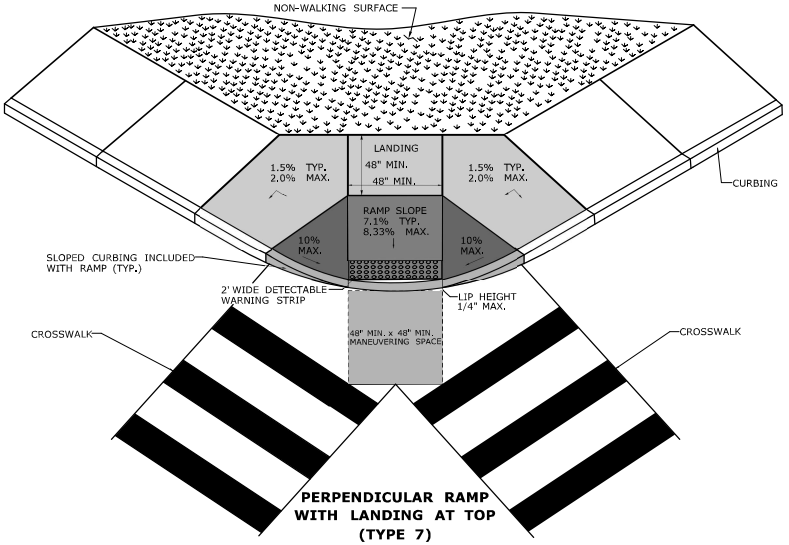
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DRAWING TITLE:
CONCRETE SIDEWALK RAMPS - SHEET 2

PROJECT NO. -
DRAWING NO. SD-05
SHEET NO. 09.05




**PERPENDICULAR RAMP WITH LANDING AT TOP (TYPE 6)**




**PERPENDICULAR RAMP WITH LANDING AT TOP (TYPE 7)**

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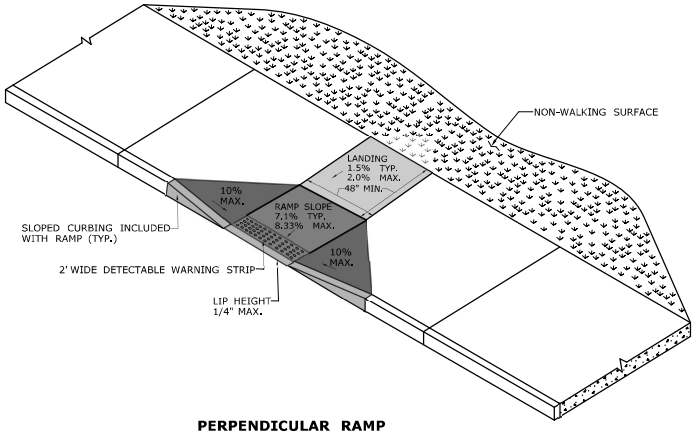
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DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 3

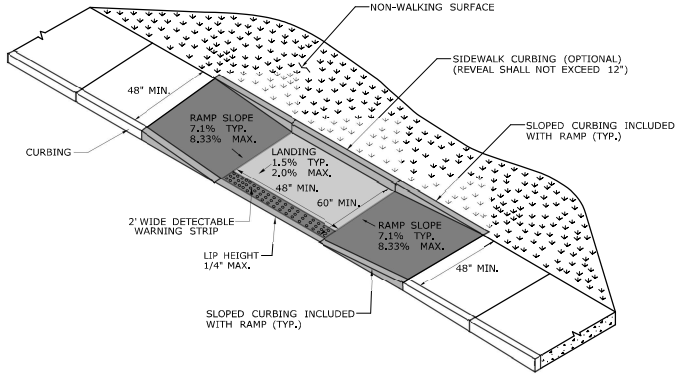
PROJECT NO.
-

DRAWING NO.
SD-06

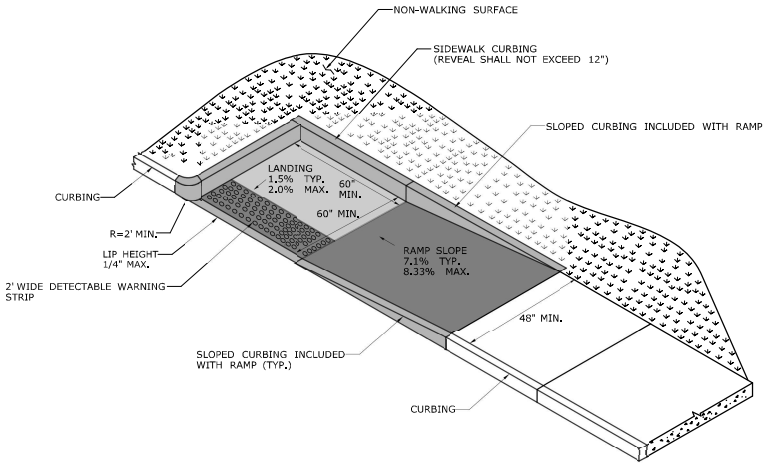
SHEET NO.
09.06




**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)**

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

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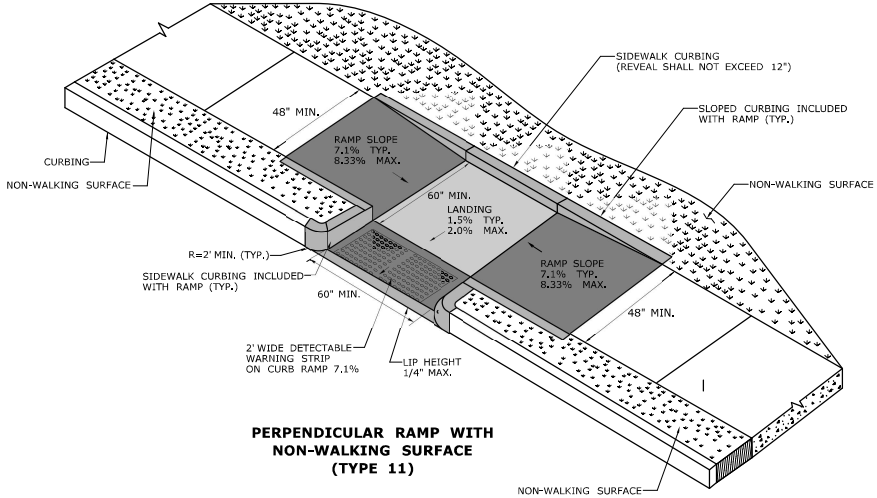
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**CONCRETE SIDEWALK RAMPS SHEET 4**

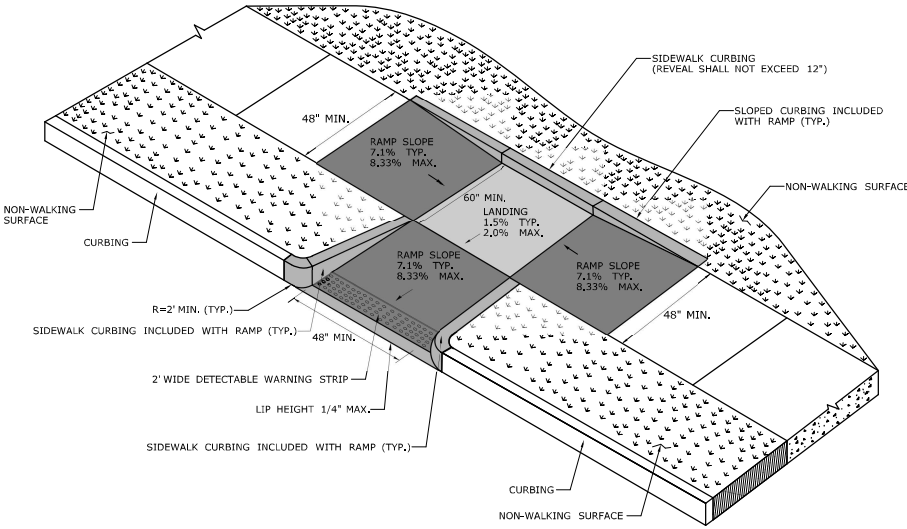
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DRAWING NO.
**SD-07**

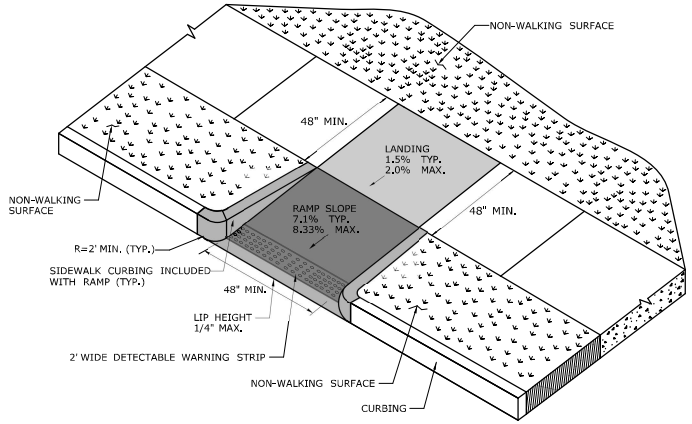
SHEET NO.
**09.07**




**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)**

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

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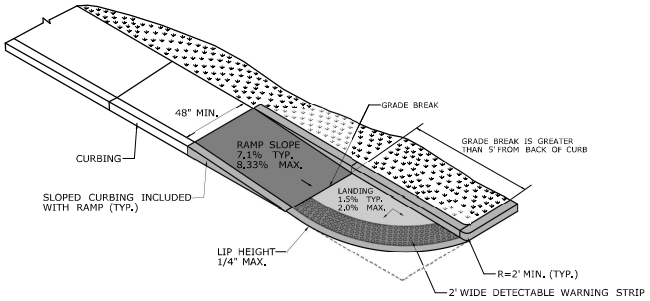
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DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 5

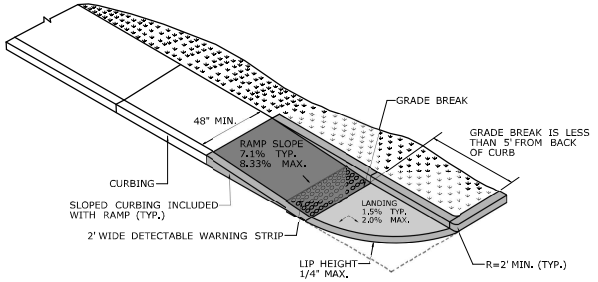
PROJECT NO.
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DRAWING NO.
SD-08

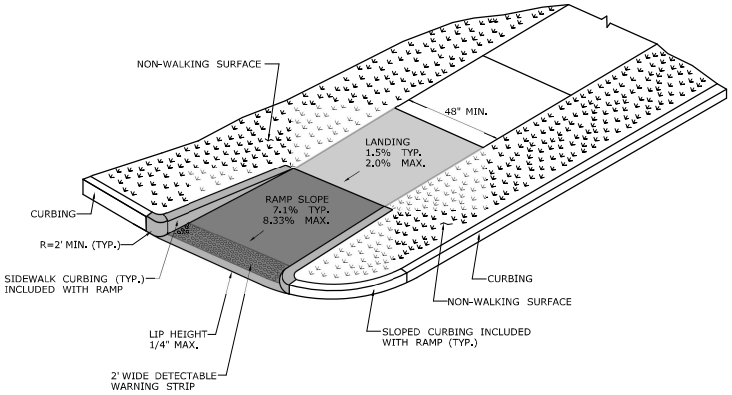
SHEET NO.
09.08



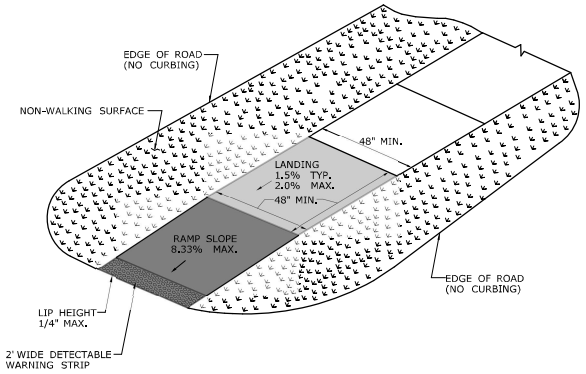

**SINGLE DIRECTION RAMP**
**WITHOUT NON-WALKING SURFACE**
**GRADE BREAK GREATER THAN 5'**
**(TYPE 14)**




**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)**

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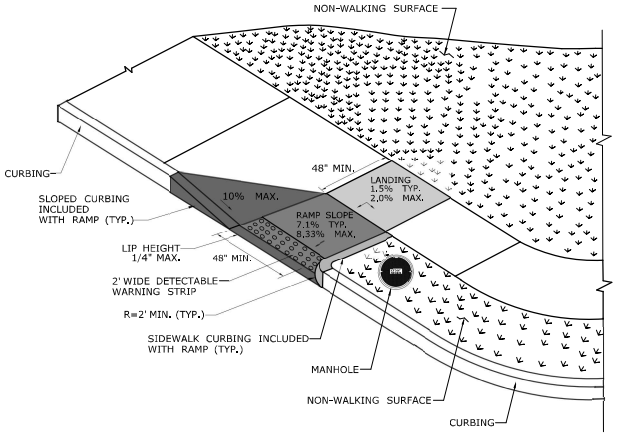
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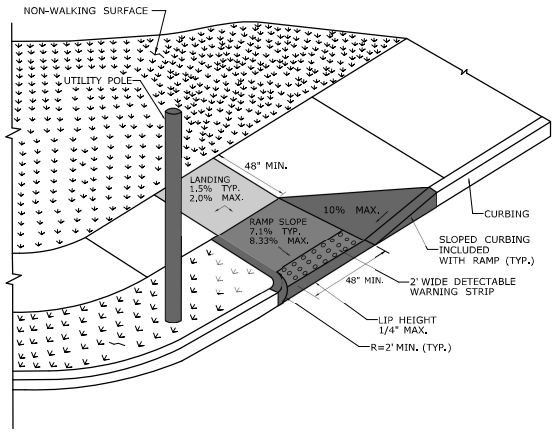
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**CONCRETE SIDEWALK RAMPS SHEET 6**

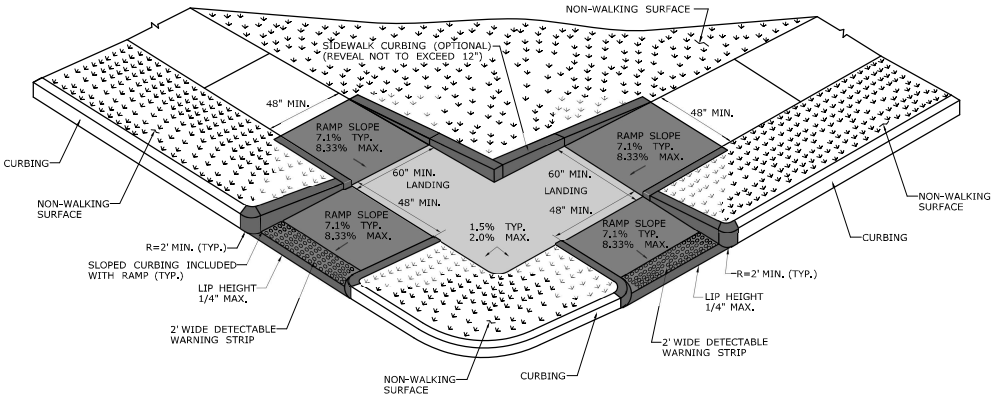
PROJECT NO. -
DRAWING NO. **SD-10**
SHEET NO. **09.10**




**PERPENDICULAR RAMP WITH NON-WALKING SURFACE (TYPE 18 LEFT)**




**PERPENDICULAR RAMP WITH NON-WALKING SURFACE (TYPE 18 RIGHT)**




**PERPENDICULAR RAMP WITH NON-WALKING SURFACE (TYPE 19)**

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

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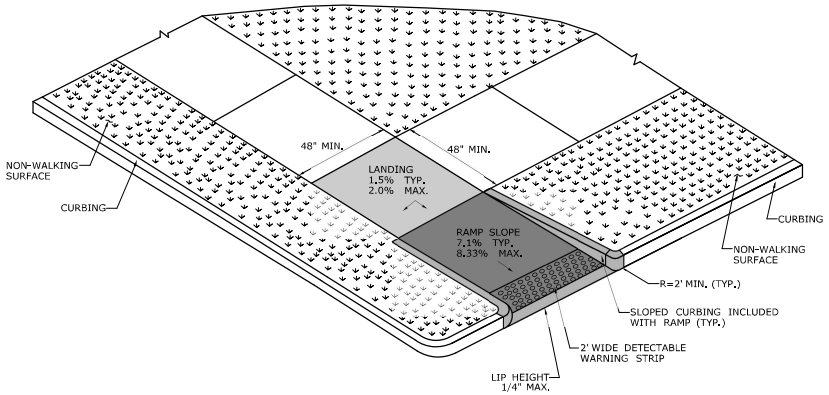
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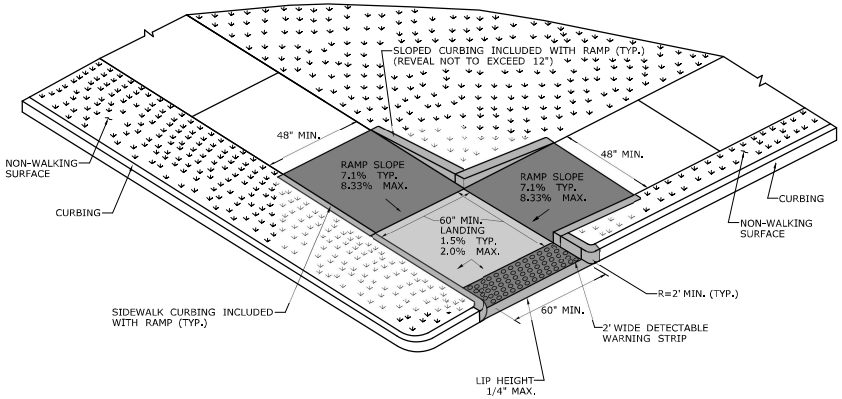
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**CONCRETE SIDEWALK RAMPS SHEET 7**

PROJECT NO. -
DRAWING NO. **SD-11**
SHEET NO. **09.11**




**RESTRICTED PEDESTRIAN CROSSING SIDEWALK RAMP WITH NON-WALKING SURFACE (TYPE 20)**




**RESTRICTED PEDESTRIAN CROSSING WITH LANDING AT BOTTOM AND NON-WALKING SURFACE (TYPE 21)**

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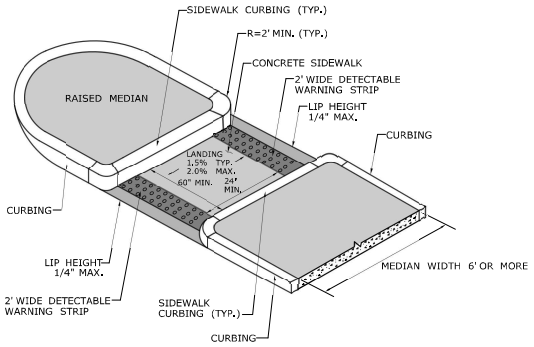
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CONCRETE SIDWALK RAMPS SHEET 8

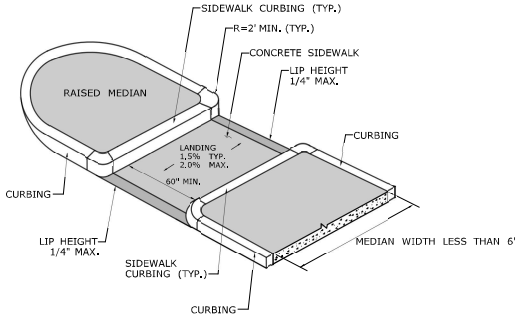
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SD-12

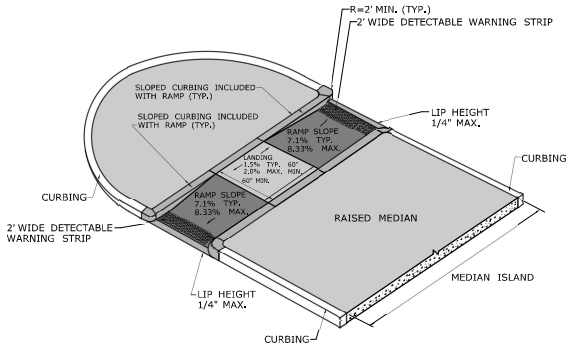
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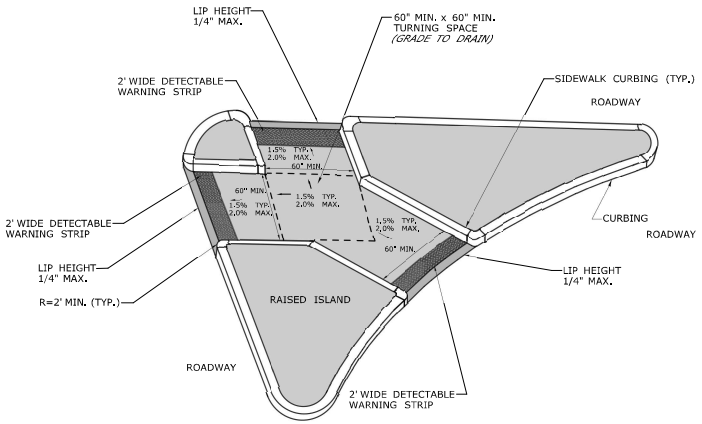

**CUT-THROUGH PEDESTRIAN REFUGE ISLAND**
**MEDIAN WIDTH 6' OR MORE**
**(TYPE 22)**



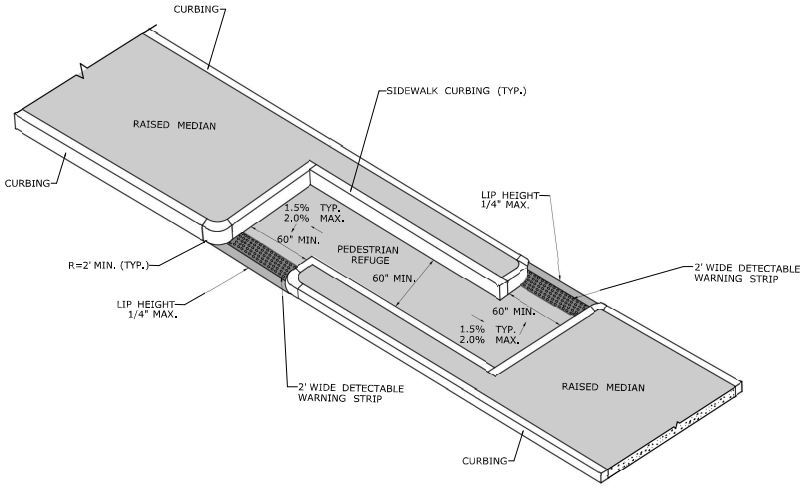

**CUT-THROUGH PEDESTRIAN REFUGE ISLAND**
**MEDIAN WIDTH LESS THAN 6'**
**(TYPE 23)**




**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)**

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

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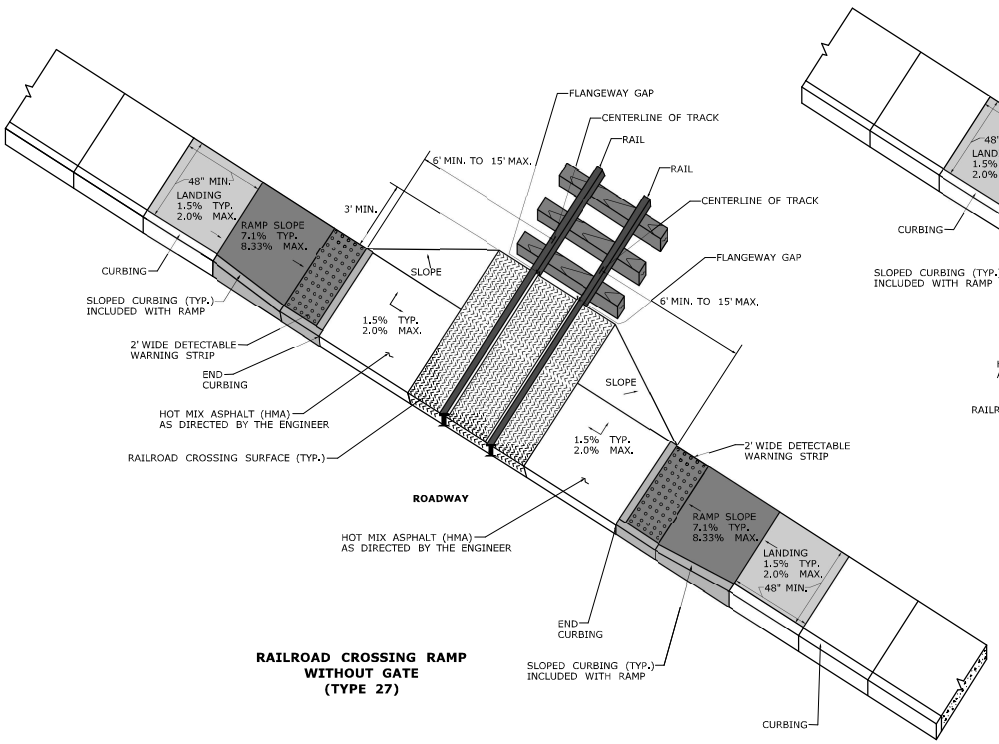
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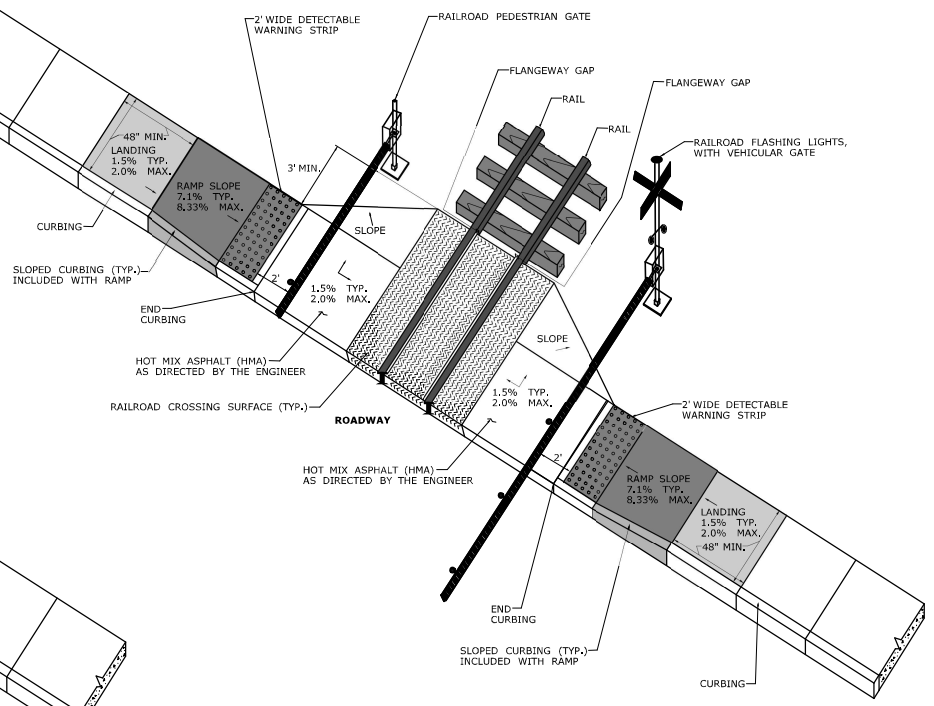
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DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 9

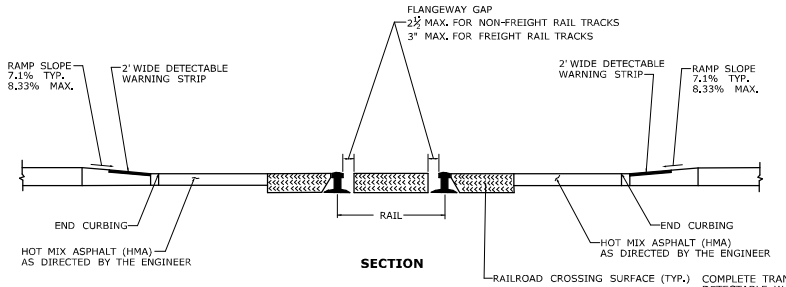
PROJECT NO. -
DRAWING NO. SD-13
SHEET NO. 09.13




**RAILROAD CROSSING RAMP**
**WITHOUT GATE**
**(TYPE 27)**




**RAILROAD CROSSING RAMP**
**WITH GATE**
**(TYPE 28)**




**SECTION**

COMPLETE TRANSITION TO ROADWAY PROFILE BEHIND DETECTABLE WARNING SURFACE.

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

| 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: 1/30/2019

DESIGNER/DRAFTER: -
CHECKED BY: -

**STATE OF CONNECTICUT**
**DEPARTMENT OF TRANSPORTATION**

Filename: ...\CTDOT-HIGHWAY-GD-[:-28-19].dgn

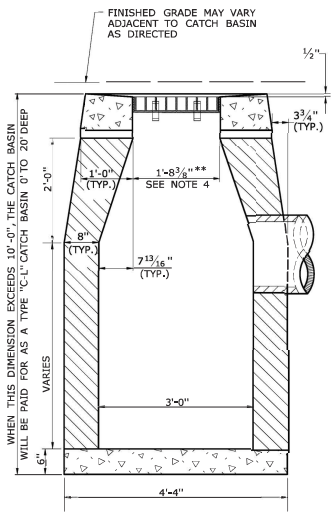
SIGNATURE/BLOCK:
**OFFICE OF ENGINEERING**
APPROVED BY:

PROJECT TITLE:
-
-
-

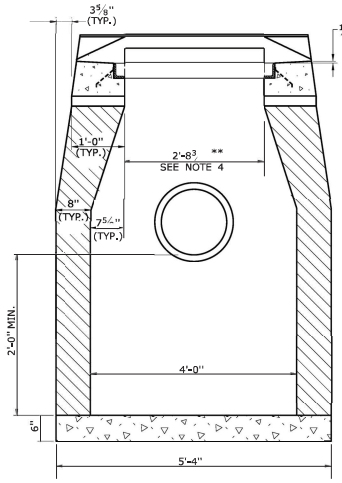
TOWN: -
-

DRAWING TITLE:
**CONCRETE SIDEWALK RAMPS SHEET 10**

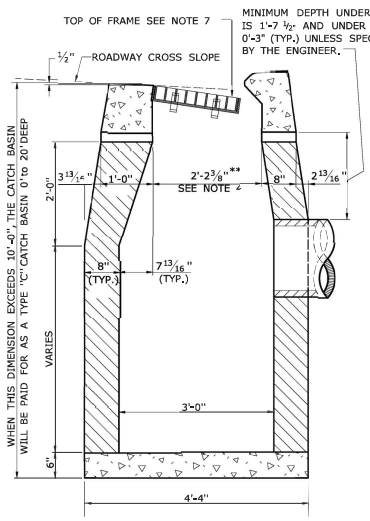
PROJECT NO. -
DRAWING NO. **SD-14**
SHEET NO. **09.14**



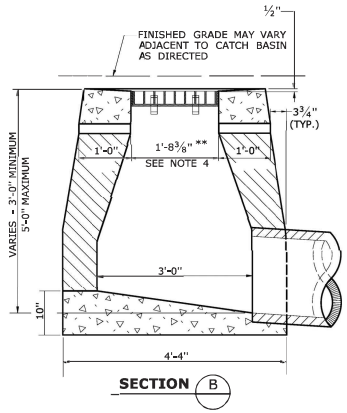

**TYPE "C-L" CATCH BASIN**



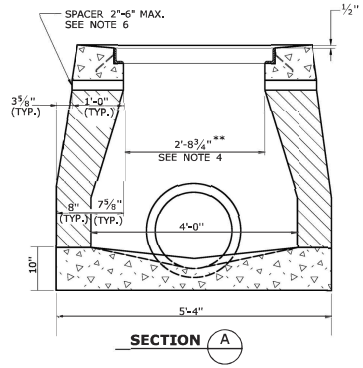

**TYPE "C" & "C-L" CATCH BASIN (TYPE "C" TOP SHOWN)**



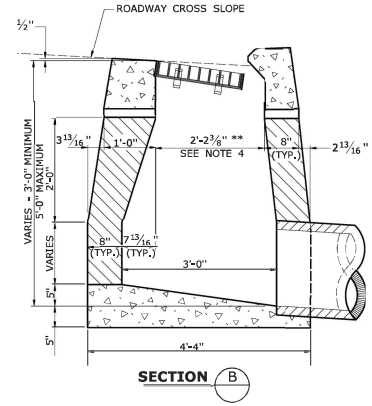

**TYPE "C" CATCH BASIN**




**TYPE "C-L" DROP INLET**



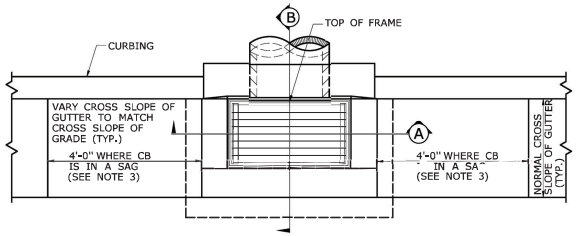

**TYPE "C" & "C-L" DROP INLET (TYPE "C-L" TOP SHOWN)**



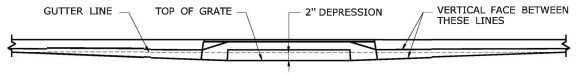

**TYPE "C" DROP INLET**

**GENERAL NOTES:**

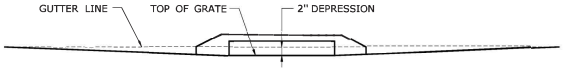
1. FOR CATCH BASIN TOPS, SEE DRAWING NO. DGS-07.
2. ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL.
3. USE 6'-0" ON UPGRADE SIDE (SEE PLAN VIEW) OF CONTINUOUS GRADE AND 1'-0" ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED BY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



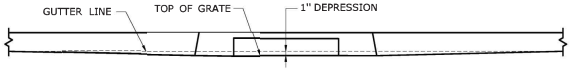

**PLAN**



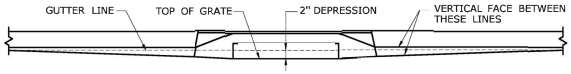

**CATCH BASINS IN A LINE WITH 4" CONCRETE PARK CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING**




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




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




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

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

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|
| | | | |

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Plotted Date: 11/30/2017

DESIGNER/DRAFTER: -
CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT Highway GD (11-21-17).dgn

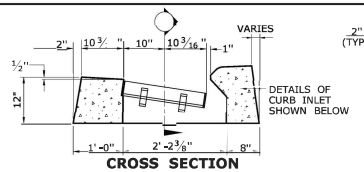
SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

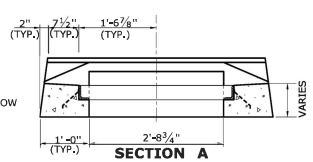
PROJECT TITLE:
PEQUONNOCK RIVER TRAIL
SECTION A2

TOWN:
TRUMBULL

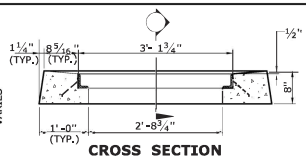
DRAWING TITLE:
CATCH BASIN AND DROP INLET

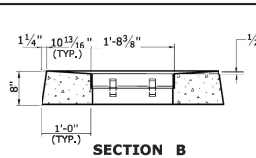
PROJECT NO. 144-192
DRAWING NO. DGS-01
SHEET NO. 10.01




TYPE "C" CATCH BASIN TOP

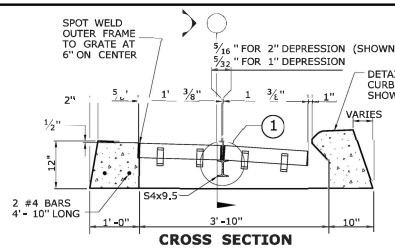


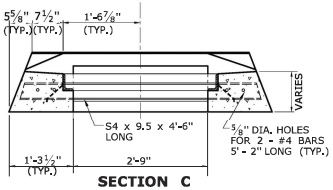




TYPE "C-L" CATCH BASIN TOP

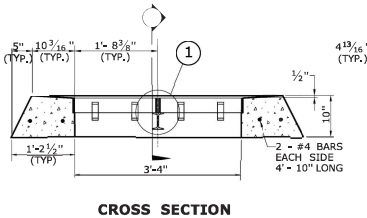
**GENERAL NOTES:**

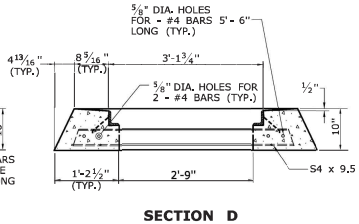
1. FOR DETAILS OF FRAMES AND GRATES, SEE DRAWING NO. DGS-08.
2. ALL BARS SHALL HAVE A MINIMUM 2" COVER.



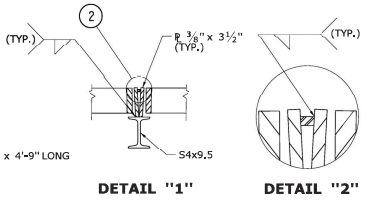



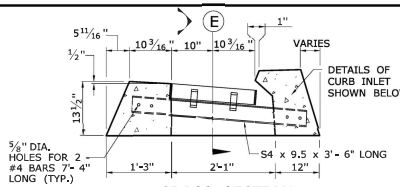

TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I TOP

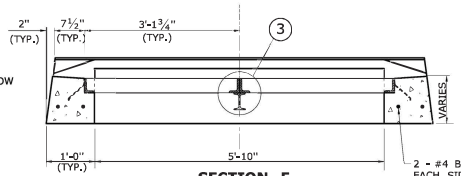


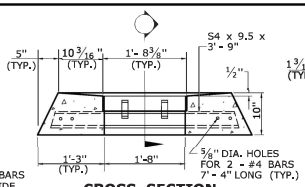

TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE I TOP

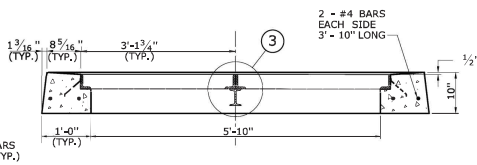


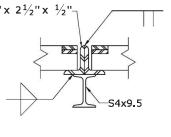



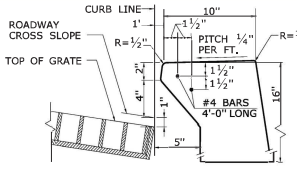

TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II TOP



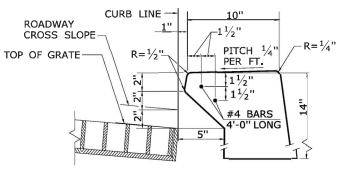




TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II TOP

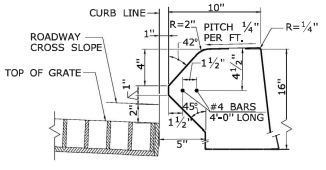


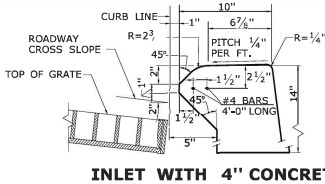

INLET WITH 6" CONCRETE OR STONE CURBING FOR TYPE "C" CB



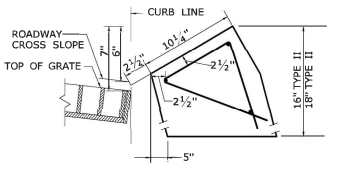

INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB



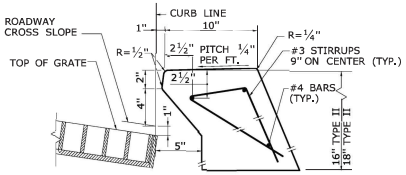

INLET WITH 6" BITUMINOUS CONCRETE LIP CURBING FOR TYPE "C" CB



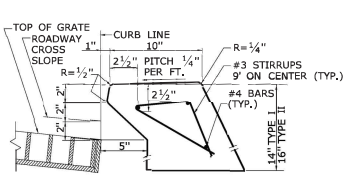

INLET WITH 4" CONCRETE PARK CURBING FOR TYPE "C" CB



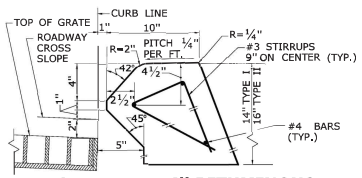

INLET WITH GRANITE SLOPE CURB FOR TYPE "C" CB



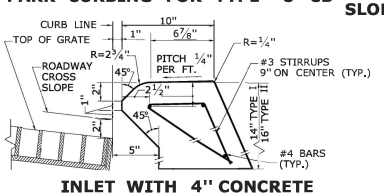

INLET WITH 6" CONCRETE OR STONE CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



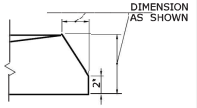

INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB DOUBLE GRATE TYPE I & II




INLET WITH 6" BITUMINOUS CONCRETE LIP CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II




INLET WITH 4" CONCRETE PARK CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II




ALTERNATE CONSTRUCTION OF TYPE II TOP

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|

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Plotted Date: 11/30/2017

DESIGNER/DRAFTER: -
CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

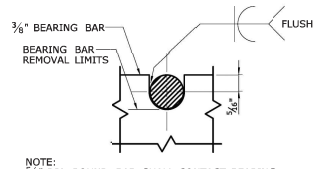
Filename: ...\CTDOT_Highway_GD (11-21-17).dgn

PROJECT TITLE: PEQUONNOCK RIVER TRAIL SECTION A2

TOWN: TRUMBULL

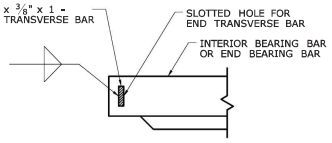
DRAWING TITLE: CATCH BASIN TOPS TYPE "C" & "C-L"

PROJECT NO. 144-192
DRAWING NO. DGS-07
SHEET NO. 10.02

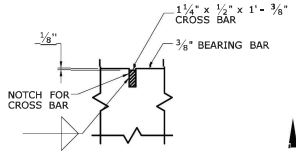



NOTE:
3/8" DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

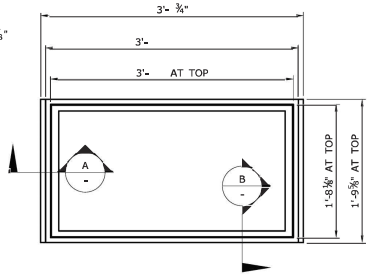
**ROUND BAR ATTACHMENT**
**CATCH BASIN GRATE TYPE A**




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



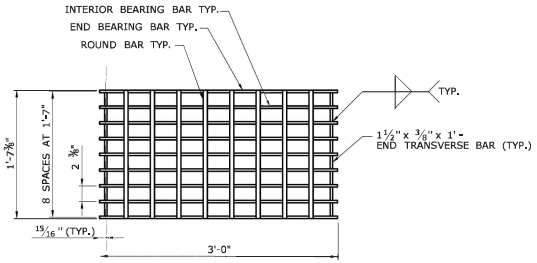

**CROSS BAR ATTACHMENT**
**CATCH BASIN GRATE TYPE B**



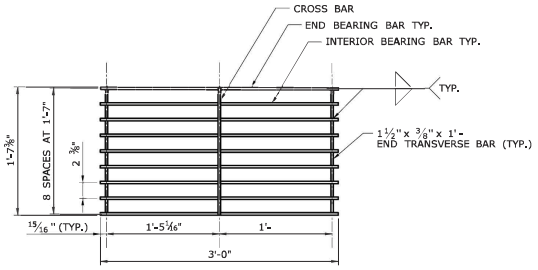

**PLAN**

**GENERAL NOTES:**

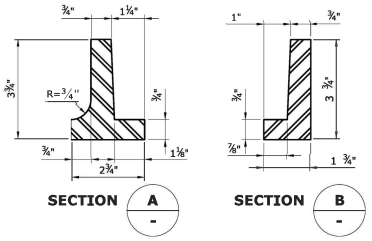
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" AND "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR ON HEAVY DUTY LOCK DOWN TOPS AS DIRECTED BY THE ENGINEER.
3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS,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



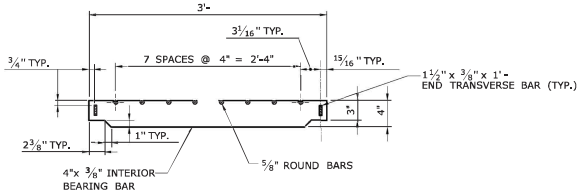

**PLAN**



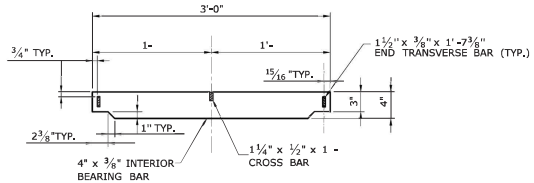

**PLAN**



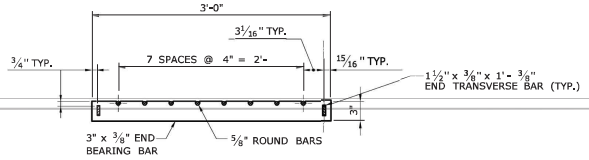

**CAST IRON FRAME ALTERNATE**



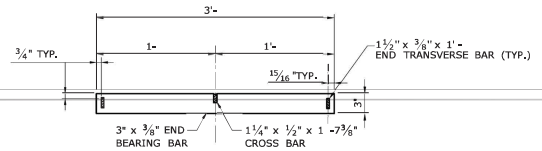

**ELEVATION- INTERIOR BEARING BAR**



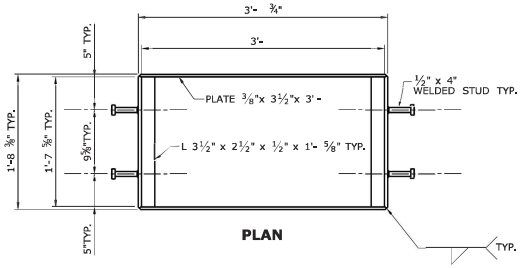

**ELEVATION- INTERIOR BEARING BAR**



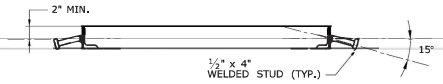

**ELEVATION- END BEARING BAR**
**CATCH BASIN GRATE TYPE A**




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




**PLAN**




**WELDED STUD ANCHOR DETAILS**
**STEEL FRAME**

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|

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Plotted Date: 11/30/2017

DESIGNER/DRAFTER: -
CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_Highway_GD (11-21-17).dgn

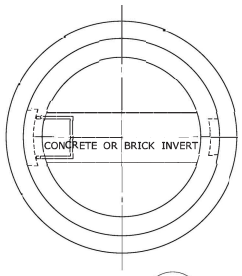
SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
PEQUONNOCK RIVER TRAIL
SECTION A2

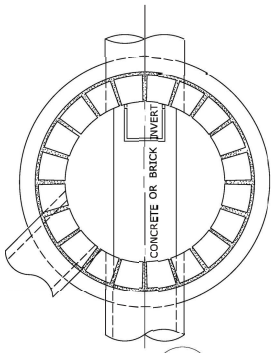
TOWN:
TRUMBULL

DRAWING TITLE:
CATCH BASIN FRAMES AND GRATES

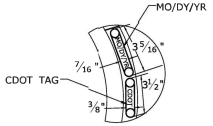
PROJECT NO.
144-192
DRAWING NO.
DGS-08
SHEET NO.
10.03




SECTION A -



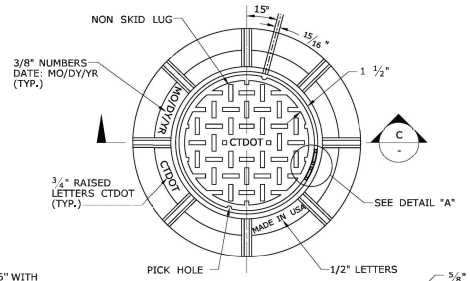

SECTION B -



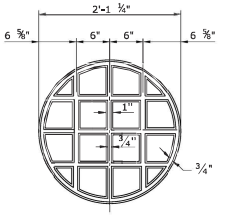

DETAIL "A"

## GENERAL NOTES:

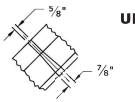
1. CHANNELS MAY BE SHAPED IN CONCRETE BASE OF MANHOLE OR FORMED USING BRICK OR MASONRY.
2. A FRAME DIAMETER OF 3'-3" WITH 4" FLANGE MUST BE USED WHEN THE TOP DIAMETER OF THE PRECAST CONE IS LESS THAN 3'-6". ALL OTHER FRAME DIMENSIONS SHALL REMAIN THE SAME.
3. CAST IRON COVER OR STEEL COVER SHALL WEIGH NO LESS THAN 134 LBS.
4. ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.

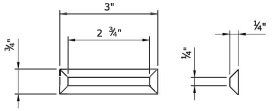



PLAN

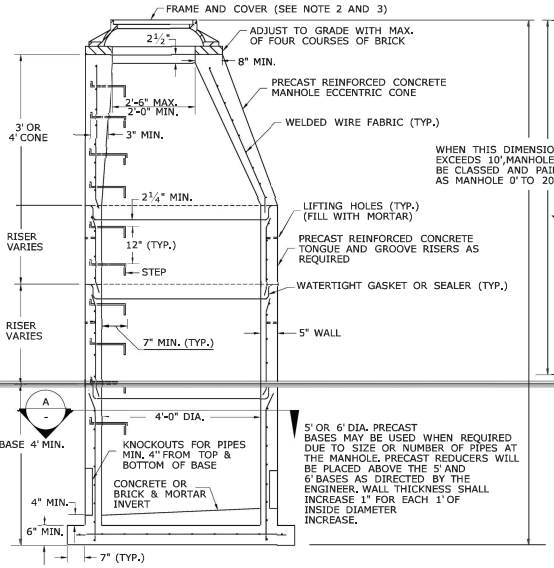



UNDERSIDE OF COVER



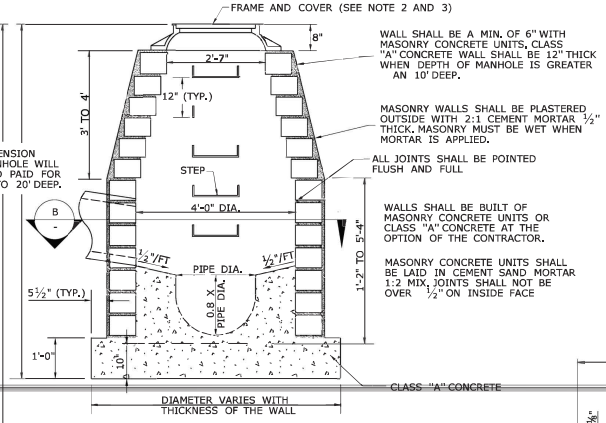

NON SKID LUG




ELEVATION

MANHOLE

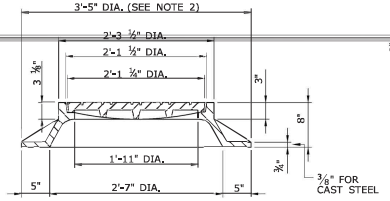
(REINFORCED PRECAST CONCRETE UNIT)



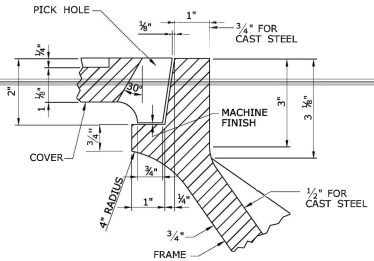

ELEVATION

MANHOLE

MASONRY CONCRETE UNIT OR CLASS "A" CONCRETE




SECTION C -




FRAME SEAT

FRAME AND COVER

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|

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Plotted Date: 11/30/2017

DESIGNER/DRAFTER: -

CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_Highway_GD (11-21-17).dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
PEQUONNOCK RIVER TRAIL
SECTION A2

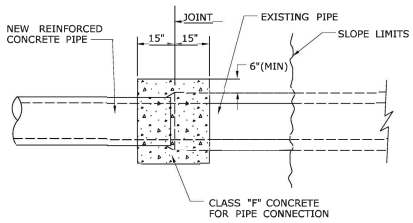
TOWN:
TRUMBULL

DRAWING TITLE:
MANHOLE & COVER

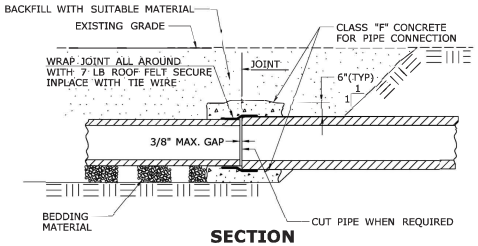
PROJECT NO.
144-192

DRAWING NO.
DGS-10

SHEET NO.
10.04



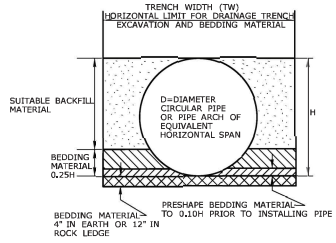

**PLAN**



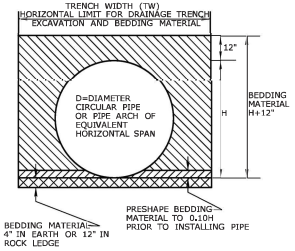

**SECTION**
**CONCRETE PIPE CONNECTION**

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 WRAPPED TO PREVENT CONCRETE FROM ENTERING PIPE.




**PIPE TRENCH**
**FOR PIPES LESS THAN 48"**



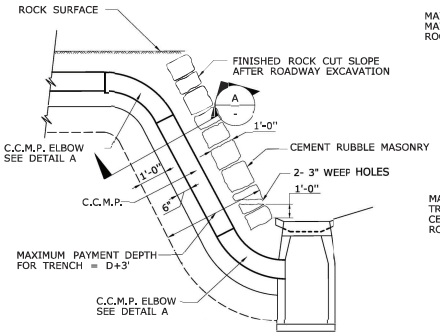

**PIPE TRENCH**
**FOR PIPES GREATER THAN OR EQUAL TO 48"**

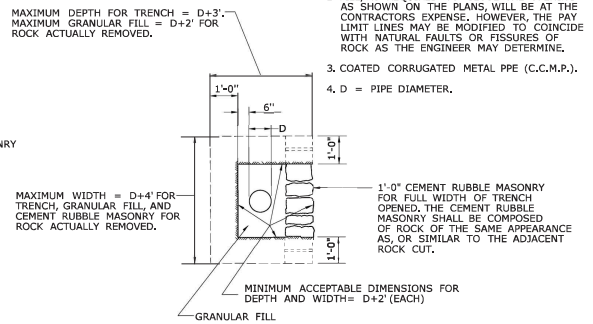
**TRENCH WIDTH (TW) CHART**

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

**GENERAL NOTES:**

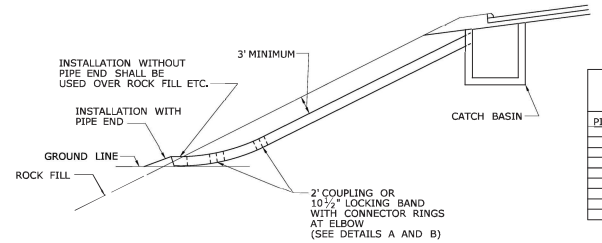
1. ROCK REMOVED BEYOND THE MAXIMUM LIMIT SHOWN SHALL BE REPLACED WITH CEMENT RUBBLE MASONRY AND GRANULAR FILL.
2. FILL, AS REQUIRED TO CLOSE THE OPENING AS SHOWN ON THE PLANS, WILL BE AT THE CONTRACTORS EXPENSE. HOWEVER, THE PAY LIMIT LINES MAY BE MODIFIED TO COINCIDE WITH NATURAL FAULTS OR FISSURES OF ROCK AS THE ENGINEER MAY DETERMINE.
3. COATED CORRUGATED METAL PPE (C.C.M.P.).
4. D = PIPE DIAMETER.




**SECTION A / -**

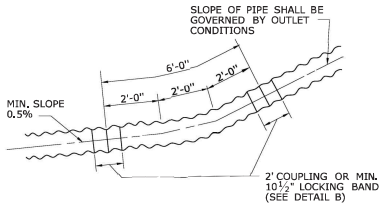
**TYPICAL INSTALLATION OF C.C.M.P. IN ROCK SLOPE**



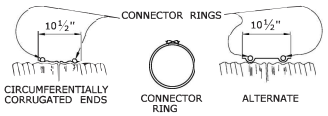

**TYPICAL INSTALLATION OF C.C.M.P ELBOW IN FILL SLOPE**

**TABLE C**
**CONNECTOR RINGS**

| PIPE DIAMETER | LENGTH OF RING |
|---|---|
| 12" | 57" |
| 15" | 61" |
| 18" | 71" |
| 21" | 80" |
| 24" | 90" |
| 30" | 108" |
| 36" | 128" |
| 42" | 147" |
| 48" | 166" |




**DETAIL A**
**C.C.M.P. ELBOW AND COUPLING**




RODS: ⅞" DIAMETER ELECTRO-GALVANIZED WITH 6" LENGTH OF 1½" ROLLED THREADS EACH END, FURNISHED CURVED, TO FIT PIPE. SEE TABLE C

LUGS: DOUBLE TAKE UP, CAST IRON, ELECTRO-GALVANIZED.

NOTE: THE COUPLER FASTENING DEVICE SHALL NOT INTERFERE WITH INSTALLATION OF CONNECTOR RINGS.

**DETAIL B**
**ELBOW DIMENSIONS**

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|---|---|---|---|
| | | | |

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Plotted Date: 11/30/2017

DESIGNED/DRAFTER: -
CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_Highway_GD (11-21-17).dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: PEQUONNOCK RIVER TRAIL SECTION A2

TOWN: TRUMBULL

DRAWING TITLE: C.C.M. PIPE INSTALLATION & PIPE TRENCH

PROJECT NO. 144-192
DRAWING NO. DGS-11
SHEET NO. 10.05

***ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT # 144-192**

****REVISED OR ADDED**

| ✓* | SHEET NO. | TITLE | APPROVAL DATE** |
|---|---|---|---|
| | 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 | 1-05-18 |
| | 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 | 1-05-18 |
| | 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_01 | CHAIN LINK FENCE | 7-12-12 |
| | 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_01 | PLANTING DETAILS FOR TREES | 7-12-12 |
| ✓ | HW-949_02 | PLANTING DETAILS FOR SHRUBS | 7-12-12 |
| | HW-1800_01 | GRADING PLAN FOR TYPE B IMPACT ATTENUATION SYSTEM (FLARED) | 6-20-11 |
| | HW-1800_02 | GRADING PLAN FOR TYPE B IMPACT ATTENUATION SYSTEM (MEDIAN/GORE) | 6-09-11 |
| | HW-1800_03 | TYPE B IMPACT ATTENUATION SYSTEM (TANGENTIAL) | 1-05-18 |

| ✓* | SHEET NO. | TITLE | APPROVAL DATE** |
|---|---|---|---|

| REV. | DATE | REVISION DESCRIPTION |
|---|---|---|

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Plotted Date: 1/5/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD.dgn Model: 2 - HW-INX-2

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

**HIGHWAY STANDARD SHEET INDEX**

STANDARD SHEET NO.:

**HW_INX 2 of 2**

***ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT # 144-192**

****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, FARM WALL AND WIRE FENCES | 6-07-17 |
| | 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 | 6-09-11 |
| | 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 |
| | HW-910_19a | METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE I | 7-24-13 |

| REV. | DATE | REVISION DESCRIPTION |
|---|---|---|
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
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| - | - | - |
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Plotted Date: 9/20/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD (9-13-17 to be plotted(1)).dgn HW-INX_1

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

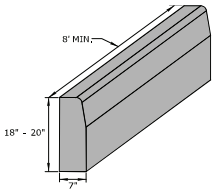
**HIGHWAY STANDARD SHEET INDEX**

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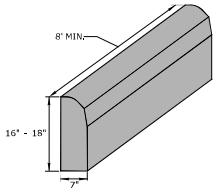
**HW_INX**

**GENERAL NOTE:**

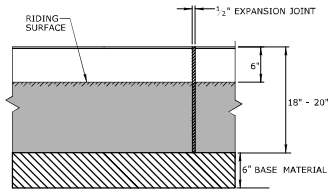
1. PRECAST CONCRETE CURBING MAY BE CAST BY THE MANUFACTURER WITH OPTIONAL LIFTING AND DOWEL BAR HOLES.



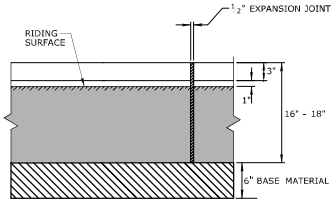

**CONCRETE CURBING (6" REVEAL)**



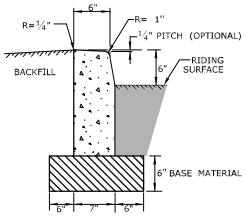

**CONCRETE PARK CURBING (4" REVEAL)**



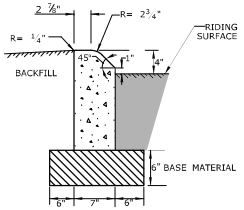

**FRONT ELEVATION**




**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:

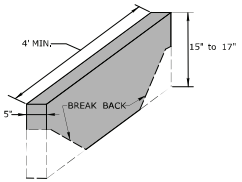
APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

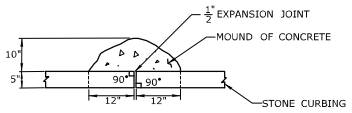
OFFICE OF ENGINEERING

STANDARD SHEET TITLE: CONCRETE CURBING

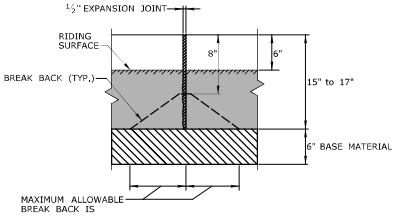
STANDARD SHEET NO.: HW-811_01



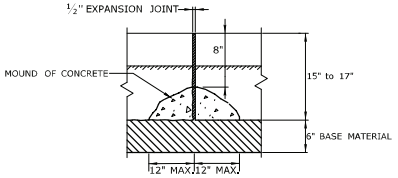

**STONE CURBING**




**PLAN**

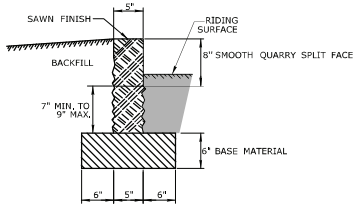



**FRONT ELEVATION**




**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

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**STATE OF CONNECTICUT**
**DEPARTMENT OF TRANSPORTATION**

Filename: HW-813_02.dgn Model: CT_Civil_2D_Sheet

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APPROVED BY: NAME/DATE/TIME:

**CTDOT STANDARD SHEET**

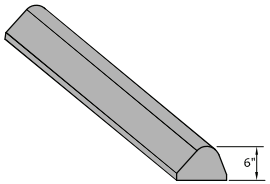
**OFFICE OF ENGINEERING**

STANDARD SHEET TITLE:

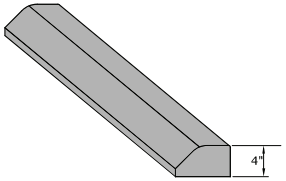
**STONE CURBING**

STANDARD SHEET NO.:

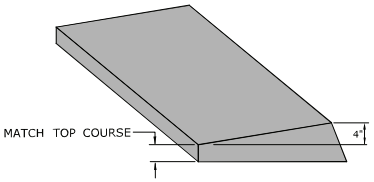
**HW-813_02**



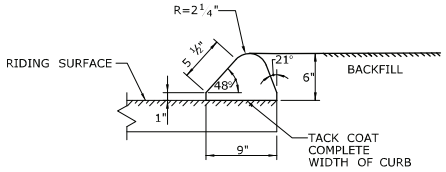

**BITUMINOUS CONCRETE LIP CURBING (6" HIGH)**



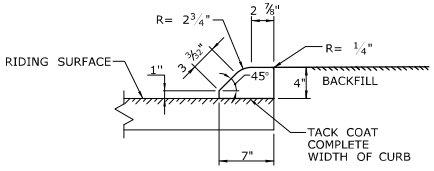

**BITUMINOUS CONCRETE PARK CURBING (4" HIGH)**



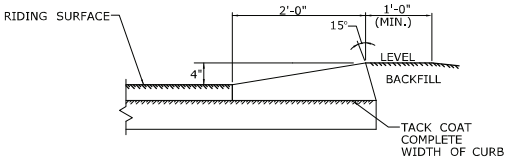

**BITUMINOUS CONCRETE BERM CURBING (4" HIGH)**




**SECTION**




**SECTION**




**SECTION**

| REV. | DATE | REVISION DESCRIPTION |
|---|---|---|
| 1 | 6/17 | NEW SHEET |

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Plotted Date: 6/6/2017

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: HW-815_01.dgn Model: CT_Civil_2D_Sheet

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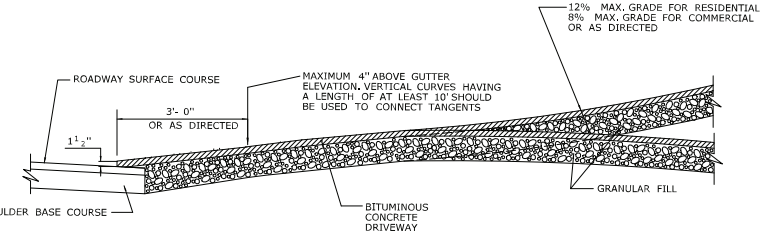
APPROVED BY: NAME/DATE/TIME:

CTDOT
STANDARD SHEET

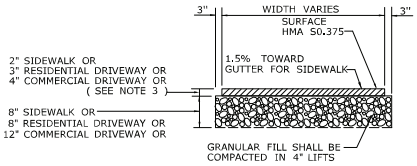
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
BITUMINOUS CONCRETE CURBING

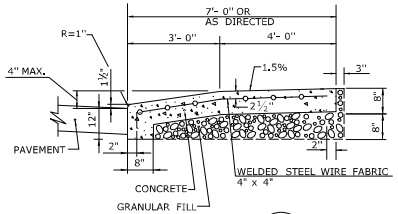
STANDARD SHEET NO.:
HW-815_01



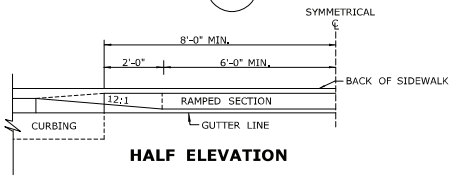

SECTION A



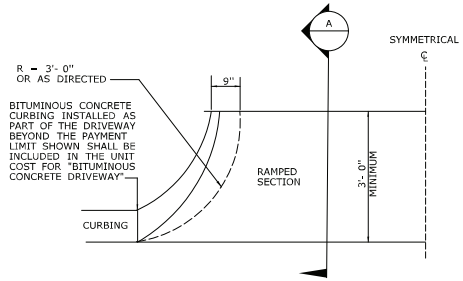

**TYPICAL SECTION**
**BITUMINOUS CONCRETE**
**SIDEWALK AND DRIVEWAY**



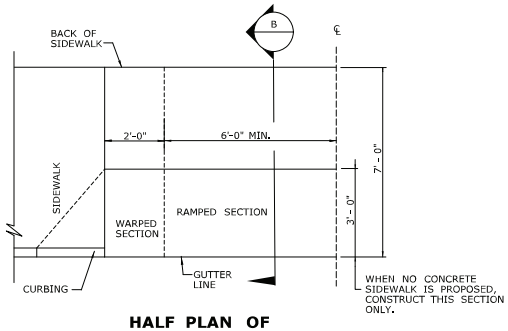

SECTION B



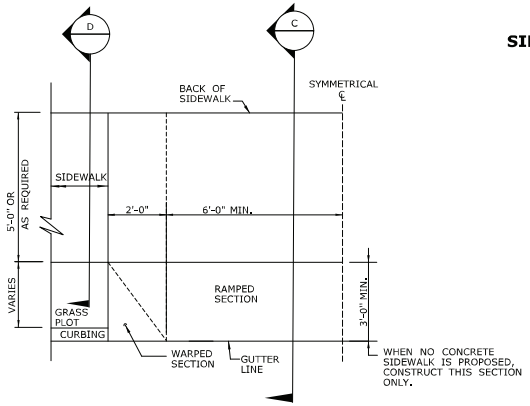

**HALF ELEVATION**



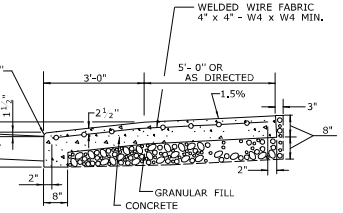

**HALF BITUMINOUS CONCRETE**
**DRIVEWAY PLAN**




**HALF PLAN OF**
**CONCRETE DRIVEWAY RAMP WHERE**
**SIDEWALK ADJOINS CURBING**



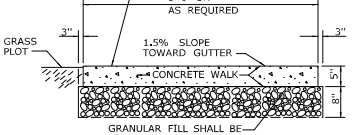

**HALF PLAN OF**
**CONCRETE DRIVEWAY RAMP WHERE**
**CURB IS SEPARATED FROM**
**SIDEWALK BY GRASS PLOT**




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**

| 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

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: HW-921_01.dgn Model: CT_Civil_2D_Sheet

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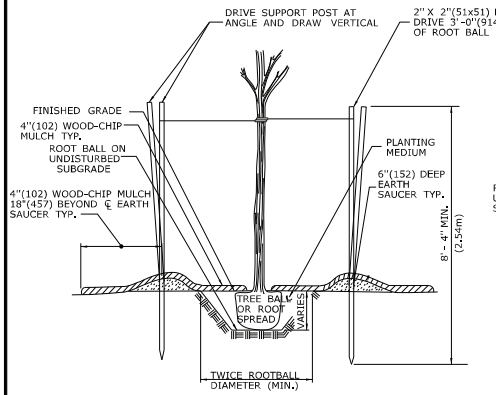
APPROVED BY: NAME/DATE/TIME:

CTDOT
STANDARD SHEET

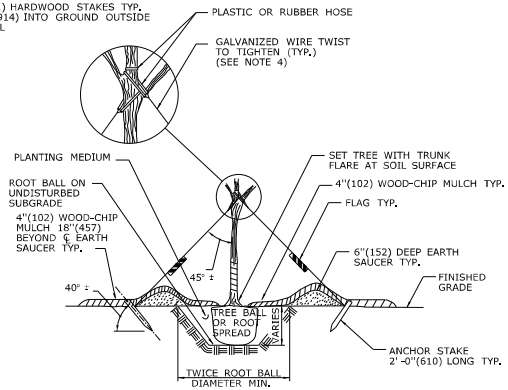
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
**DRIVEWAY RAMPS AND SIDEWALKS**

STANDARD SHEET NO.:
**HW-921_01**




**SECTION A**
-




**SECTION B**
-

EXAMPLES OF MINIMUM SIZE OF ROOT BALL FOR NURSERY GROWN PLANTS.

| CALIPER* INCHES(mm) | BALL DIAMETER INCHES(mm) | PLANTING PIT SIZE INCHES(mm) |
|---|---|---|
| - | 8(203) | 16(406) |
| - | 10(254) | 20(508) |
| 1/2(12.5) | 12(304) | 24(610) |
| 3/4(19) | 14(356) | 28(711) |
| 1(25) | 16(406) | 32(813) |
| 1 1/2(38) | 20(508) | 40(1016) |
| 2(50) | 24(610) | 48(1219) |
| 2 1/2(65) | 28(711) | 56(1422) |
| 3(75) | 32(813) | 64(1626) |
| 3 1/2(90) | 38(965) | 76(1930) |
| 4(100) | 42(1166) | 84(2134) |
| 5(125) | 54(1372) | 108(2743) |
| 6(150)** | - | - |

* THE CALIPER OF THE TRUNK IS MEASURED 6"(152) ABOVE THE GROUND UP TO AND INCLUDING 4"(102) SIZES AND 12"(305) ABOVE THE GROUND FOR LARGER SIZES OR AS SPECIFED IN THE MOST RECENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

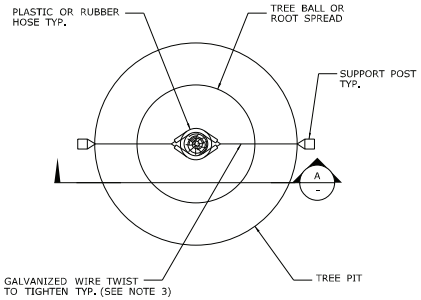
** TREES GREATER THAN OR EQUAL TO 6"(152) CALIPER SHALL HAVE A ROOT BALL DIAMETER EQUAL TO 10"(254) PER INCH(25mm) OF TRUNK CALIPER ( A 7"(178) CALIPER TREE SHOULD HAVE A ROOT BALL DIAMETER EQUAL TO 70"(1778)).

## GENERAL NOTES:

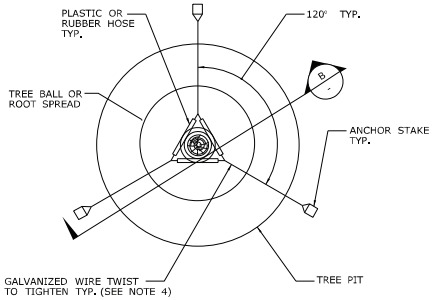
1. THE PLANTING PIT SIZE SHALL BE TWICE THE DIAMETER OF THE ROOT BALL IN WIDTH AND 2"(51) LESS THAN THE HEIGHT OF THE ROOT BALL.
2. ALL EXTERIOR PACKAGING MATERIAL APPLIED TO PLANTS SHALL BE REMOVED AFTER THE PLANT IS LOCATED IN THE PLANTING PIT. CUT AND REMOVE TWINE, BURLAP OR WIRE BASKETS FROM THE TOP 2/3RDS OF THE ROOT BALL.
3. USE DOUBLE STRAND NO. 12 WIRE FOR DECIDUOUS TREES GREATER THAN OR EQUAL TO 3"(76) CALIPER AND USE DOUBLE STRAND NO. 10 WIRE FOR EVERGREEN TREES GREATER THAN OR EQUAL TO 8"(203) CALIPER.
4. TREE TRUNK WRAPPING MATERIAL SHALL BE USED AS DIRECTED BY THE ENGINEER.
5. PLANTING PITS FOR INDIVIDUAL SHRUBS ON SLOPES SHALL BE THREE TIMES THE DIAMETER OF THE ROOT BALL IN WIDTH.

NOTE:
USE 3 POSTS FOR STAKING DECIDUOUS TREES 3"(76) CALIPER OR GREATER AND EVERGREEN TREES 8' (2.4m) HIGH OR GREATER. USE 2 POSTS FOR STAKING DECIDUOUS TREES LESS THAN 3"(76) CALIPER AND EVERGREEN TREES LESS THAN 8'(2.4m) HIGH.

**GUYING PLAN**

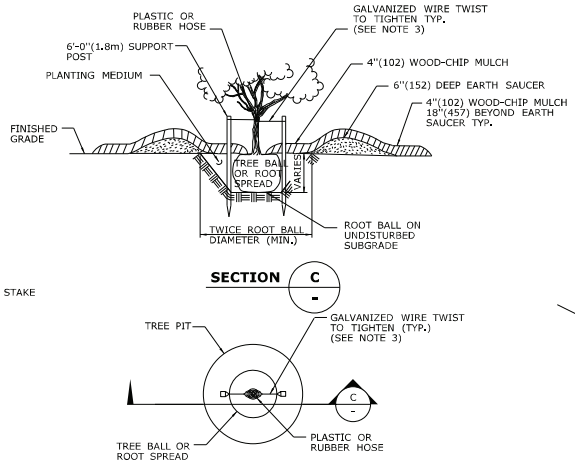



**PLAN**




**PLAN**

**STAKING PLAN**

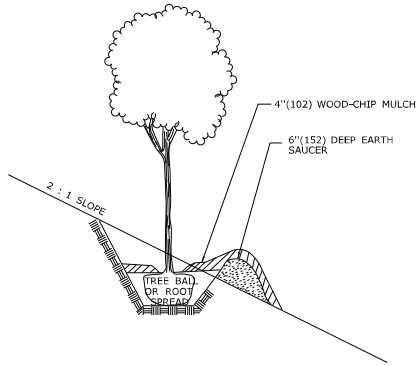



**SECTION C**
-




**PLAN**

**STAKING PLAN FOR LOW BRANCHING DECIDUOUS AND EVERGREEN TREES FROM 5'(1.5m) TO 8'(2.4m) HIGH.**




**GRADING PLAN FOR TREES ON SLOPES**

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

| REV. | DATE | REVISION DESCRIPTION |
|---|---|---|
| - | - | - |
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Plotted Date: 6/23/2011

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD_JUNE2011.dgn Model: 71 - HW-949_01

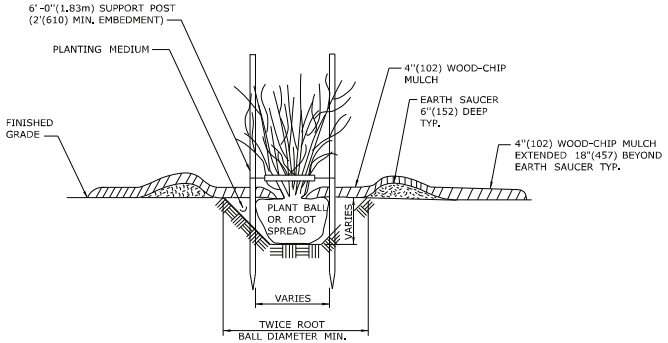
| SUBMITTED BY: | NAME/DATE/TIME: |
|---|---|
| APPROVED BY: | NAME/DATE/TIME: |

CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
**PLANTING DETAILS FOR TREES**

STANDARD SHEET NO.:
**HW-949_01**




**SECTION A -**

EXAMPLES OF MINIMUM CONTAINER SIZES FOR NURSERY GROWN PLANTS

| CALIPER* INCHES(mm) | HEIGHT** FEET(mm) | CONTAINER SIZE GALLONS(LITERS) |
|---|---|---|
| - | 1(305) | 0.7-1.1(2.6-4.2) |
| - | 2(610) | 0.7-1.1(2.6-4.2) |
| - | 3(914) | 0.7-1.1(2.6-4.2) |
| - | 4(1219) | 1.4-2.0(5.3-7.6) |
| - | 5(1524) | 3.4-4.2(12.9-15.9) |
| - | 6(1829) | 4.7-5.4(17.8-20.4) |
| 1(25) | 7(2134) | 5.8-7.8(21.9-29.5) |
| - | 8(2438) | 9.0-11.5*34.1-43.5) |
| 1 1/2(38) | - | 12.0-16.0(45.4-60.6) |
| 2(51) | - | 25.0-29.7(94.6-112.4) |
| 2 1/2(64) | - | 25.0-29.7(94.6-112.4) |

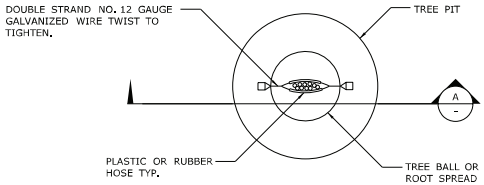
* THE CALIPER IS MEASURED 4"(102) ABOVE GROUND LEVEL.

** ONLY DECIDUOUS SHRUBS ARE INCLUDED IN THIS TABLE. EVERGREEN SHRUBS ARE MEASURED BY HEIGHT BUT, CONTAINER SIZE DEPENDS ON BOTH SIZE AND SHAPE AND ARE GENERALLY 1 TO 2 SIZES LARGER THAN DECIDUOUS PLANTS.

**TABLE FOR SHRUBS**

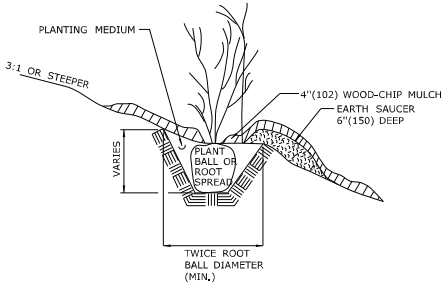
## GENERAL NOTES:

1. THE PLANTING PIT SIZE SHALL BE TWICE THE DIAMETER OF THE ROOT BALL IN WIDTH AND 2"(51) LESS THAN THE HEIGHT OF THE ROOT BALL.
2. ALL EXTERIOR PACKAGING MATERIAL APPLIED TO PLANTS SHALL BE REMOVED AFTER THE PLANT IS LOCATED IN THE PLANTING PIT. CUT AND REMOVE TWINE, BURLAP OR WIRE BASKETS FROM THE TOP 2/3RDS (17) OF THE ROOT BALL.
3. USE DOUBLE STRAND NO. 12 WIRE FOR DECIDUOUS TREES GREATER THAN OR EQUAL TO 3"(76) CALIPER AND USE DOUBLE STRAND NO. 10 WIRE FOR EVERGREEN TREES GREATER THAN OR EQUAL TO 8"(203) CALIPER.
4. TREE TRUNK WRAPPING MATERIAL SHALL BE USED AS DIRECTED BY THE ENGINEER.
5. PLANTING PITS FOR INDIVIDUAL SHRUBS ON SLOPES SHALL BE THREE TIMES THE DIAMETER OF THE ROOT BALL IN WIDTH.



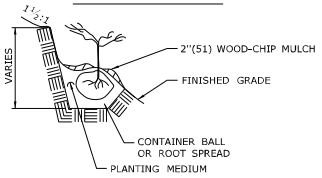

**PLAN**

**STAKING FOR MULTI-STEMMED DECIDUOUS TREES FROM 5'(1.5m) TO 10'(3.0m) HIGH**



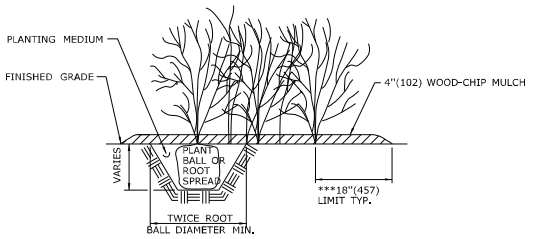

**SECTION**

**PLANTING FOR SHRUBS IN INDIVIDUAL PITS ON SLOPES**




NOTE: PLACE PLANTS AT THE SAME DEPTH THAT THE SEEDLING WAS GROWN IN THE NURSERY.

**PLANTING FOR SEEDLINGS, VINES AND GROUND COVER PLANTS IN PITS ON SLOPES**




*** UNLESS OTHERWISE DIRECTED, WOOD-CHIP MULCH SHALL BE PLACED TO A LIMIT OF 18"(457) BEYOND THE CENTER OF THE OUTERMOST SHRUBS IN SHRUB BED.

**PLANTING FOR SHRUBS IN BEDS**

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

| REV. | DATE | REVISION DESCRIPTION |
|---|---|---|
| - | - | - |
| - | - | - |
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Plotted Date: 6/23/2011

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD_JUNE2011.dgn Model: 72 -HW-949_02

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

**PLANTING DETAILS FOR SHRUBS**

STANDARD SHEET NO.:

**HW-949_02**

**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. |

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Plotted Date: 8/16/2018

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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.)

$L_T = 1 / [(1 / L_1) + (1 / L_2) + (1 / L_3) +$ 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

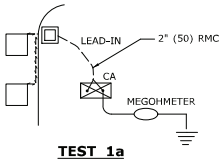
$L_{LOOP} = (24/4)\ (4^2 + 4)$
$L_{LOOP} = (6)\ (20)$
$L_{LOOP} = 120\ \mu H$

$L_{14/2} = (0.24\,\mu H/FT)\ (300)$
$L_{14/2} = (0.24)\ (300)$
$L_{14/2} = 72\,\mu H$

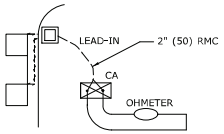
2b: MEASURE INDUCTANCE OF LOOP AND LEAD-IN AT CONTROLLER. USE INSTRUMENT DESIGNED TO MEASURE LOOP CIRCUIT INDUCTANCE.

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.




**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)**

## INDUCTIVE LOOP TEST PROCEDURE

| 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**

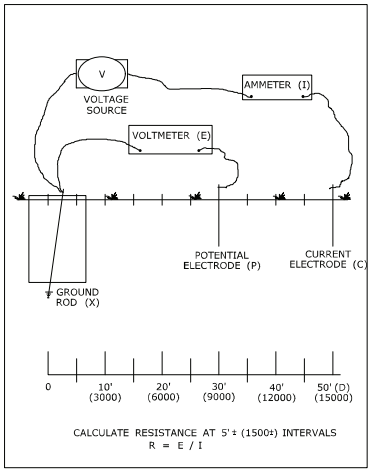
TEST PROCEDURE:

- 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.

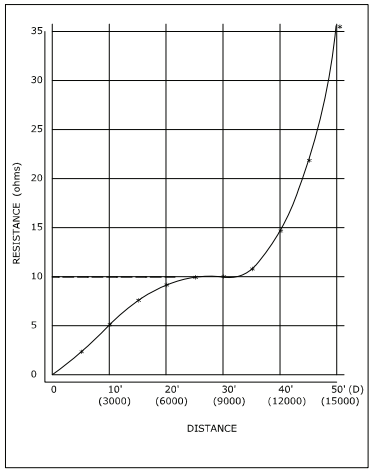
SUGGESTED CORRECTIVE ACTION:

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)**

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. |

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: 1/7/2014

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:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

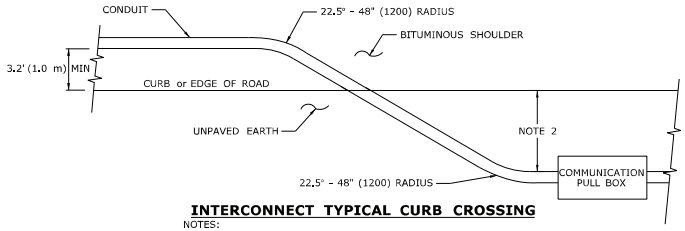
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

**GENERAL CLAUSES (TEST PROCEDURES)**

STANDARD SHEET NO.:

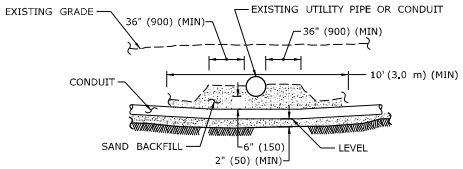
**TR-1000_01**




## INTERCONNECT TYPICAL CURB CROSSING

NOTES:

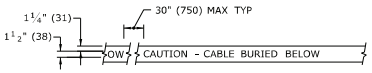
1. RESTORE AREAS DISTURBED BY TRENCH TO ORIGINAL CONDITION.
2. INSTALL PULL BOX A MINIMUM OF 10' (3.0 m) FROM CURB UNLESS OTHERWISE SHOWN ON PLANS OR DIRECTED BY ENGINEER.




## CROSSING UNDER EXISTING UTILITY

NOTES:

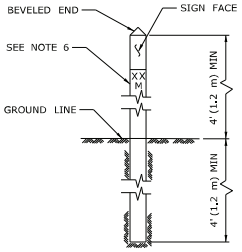
1. WHEN ENCOUNTERED AT APPROXIMATELY THE SAME DEPTH, CROSS BENEATH.
2. PROTECT & SUPPORT EXPOSED EXISTING UTILITY.




## DETECTABLE WARNING TAPE

NOTE:
STANDARD SPECIFICATIONS, ARTICLE: 1.05.15

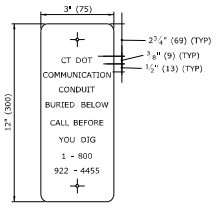
1. TAPE COLORS:
   COMMUNICATION - ORANGE BACKGROUND / BLACK LEGEND
   POWER - RED BACKGROUND / BLACK LEGEND




## INTERCONNECT CONDUIT IDENTIFICATION POST

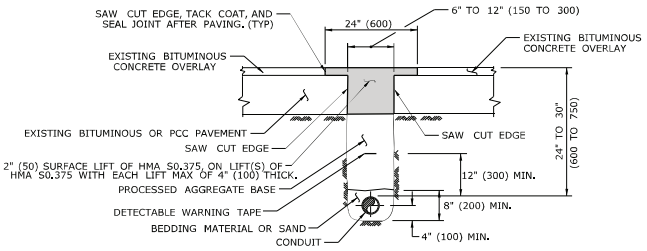
NOTES:

1. 4" x 4" (100 x 100) NOMINAL, PRESSURE TREATED WOOD POST.
2. ATTACH SIGN TO POST WITH ¼" x 1¼" (6 x 31) STAINLESS STEEL LAG SCREW WITH NYLON WASHER ON FACE OF SIGN.
3. SIGN COLORS: BACKGROUND - ORANGE (RETROREFLECTIVE) LEGEND - BLACK (OPAQUE).
4. INSTALL POST APPROX 24" (600) FROM RMC IN VICINITY OF EACH PULL BOX.
5. INSTALL POSTS BETWEEN PULL BOXES, APPROX 10' (3.0 m) OFF CURB. SPACE POSTS 1500± (460 m±) APART.
6. PERMANENTLY ATTACH STAINLESS STEEL NUMBERS INDICATING DISTANCE TO TRENCH IN FEET (METERS) CONTAINING COMMUNICATION CABLE. ATTACH NUMBERS TO SIDE OF POST FACING CONDUIT. INCLUDE "M" SUFFIX IF METERS.




## SIGN FACE DETAIL

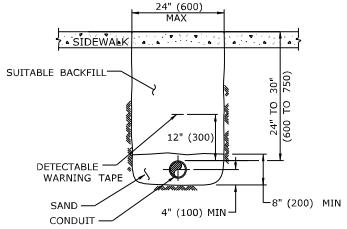
SIGN # 41-4669




## PAVEMENT - BITUMINOUS CONCRETE OR OVERLAYED PORTLAND CEMENT CONCRETE

NOTES:
STANDARD SPECIFICATIONS, ARTICLE: 3.04 & 4.06.03

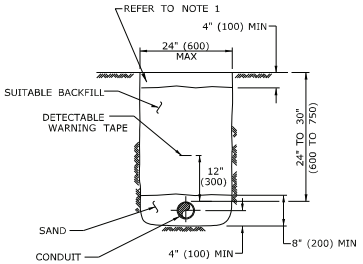
1. TOTAL HOT MIX ASPHALT (HMA) THICKNESS TO MATCH EXISTING BITUMINOUS CONCRETE AND PORTLAND CEMENT CONCRETE (PCC) THICKNESS.
2. WHEN ALLOWED BY ENGINEER, USE CONTROLLED LOW STRENGTH MATERIAL (CLSM) AS BEDDING MATERIAL. TOP OF CLSM AT LEAST 20" (500) BELOW SURFACE.




## SIDEWALK

NOTES:
STANDARD SPECIFICATIONS, ARTICLE: 9.21 & 9.22

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




## EARTH

NOTES:
STANDARD SPECIFICATIONS, ARTICLE: 9.50

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

GENERAL NOTES:

1. TOP OF CONDUIT NO LESS THAN 24" (600) DEEP.
2. COMPACT BACKFILL IN ≤ 6" (150) LIFTS. HAND COMPACTION NOT PERMITTED.

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

| REV. | DATE | REVISION DESCRIPTION |
|---|---|---|
| 1 | 4-2012 | REVISED BITUMINOUS CONRCETE TO HMA, & 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: 4/14/2012

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-1001_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

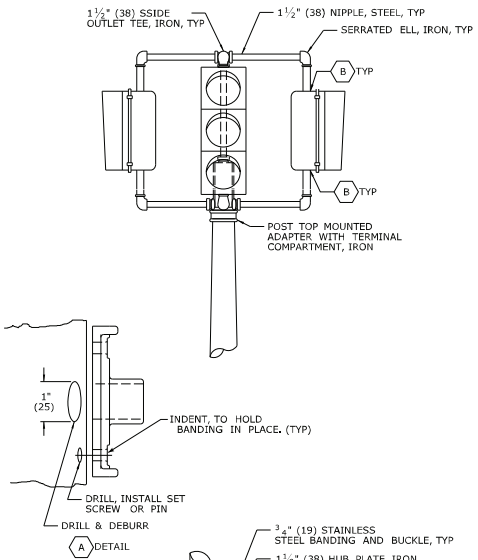
OFFICE OF ENGINEERING

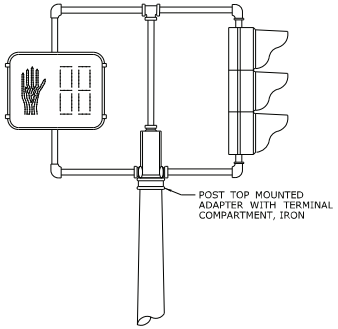
STANDARD SHEET TITLE:

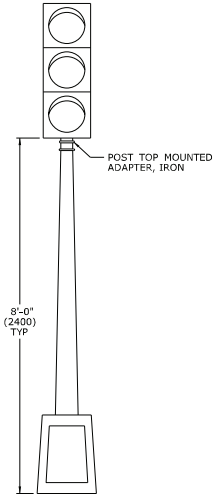
**TRENCHING & BACKFILLING, ELECTRICAL CONDUIT**

STANDARD SHEET NO.:

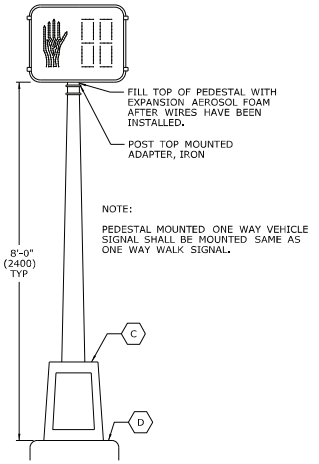
**TR-1001_01**



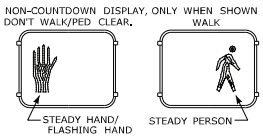

**ONE WAY TRAFFIC SIGNAL PEDESTAL MOUNTED**

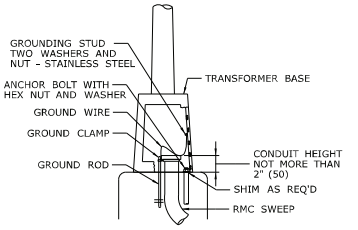



**ONE WAY WALK SIGNAL PEDESTAL MOUNTED**

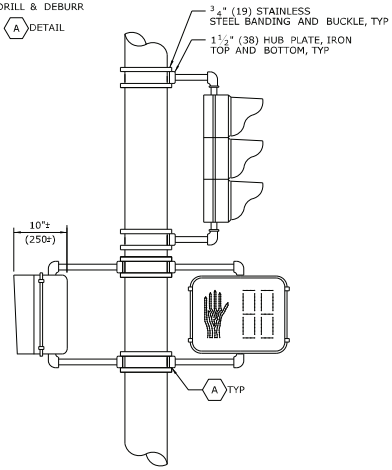


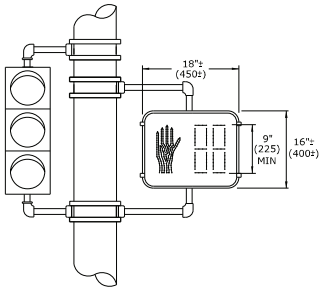

TYPICAL INDICATION WHEN LIT

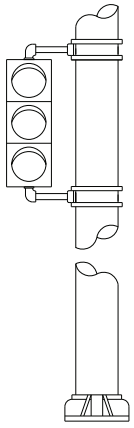


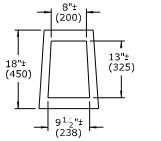

**ALUMINUM PEDESTAL INSTALLATION DETAIL**



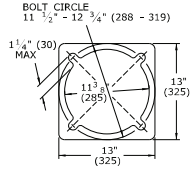



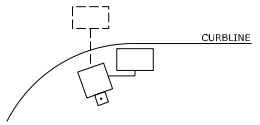
**ONE WAY TRAFFIC SIGNAL POLE MOUNTED**




**ALUMINUM PEDESTAL DOOR OPENING DETAIL**




**PEDESTAL BASE PLAN**




WHEN PEDESTALS OR SPAN POLES ARE INSTALLED CLOSE TO THE CURB, SIDE MOUNT PEDESTRIAN OR TRAFFIC SIGNALS TO AVOID VISOR DAMAGE FROM TURNING VEHICLES.

NOTES:

A. SECURE LOWER HUB PLATE WITH STAINLESS STEEL SET SCREW OR PIN PRIOR TO BANDING TO PREVENT MOVEMENT. INSTALL CABLE THROUGH BOTTOM OF HUB PLATE.

B. REFER TO CTDOT TRAFFIC STANDARD SHEET, TR-1105_01, TRAFFIC SIGNALS & CABLE ASSIGNMENTS.

C. IF THREADED, MIN 1" (25) THREADED INTO BASE, SECURED WITH STAINLESS STEEL SET SCREWS.

D. BASE DESIGNED AS BREAK-AWAY.

INCANDESCENT WALK SIGNAL LAMPS ARE 67 WATTS, RATED AT 8000 HOURS LAMP LIFE. LED WALK SIGNAL LAMPS ARE MAXIMUM 15 WATTS, WARRANTEED AT 5 YEAR LIFE.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
- STEEL SPAN POLE, MAST ARM ASSEMBLY SHAFT
- ALUMINUM PEDESTAL
- TRAFFIC SIGNAL
- PEDESTRIAN SIGNAL
- PEDESTAL MOUNTED, TRAFFIC & PEDESTRIAN SIGNALS
- POLE MOUNTED, TRAFFIC & PEDESTRIAN SIGNALS

| REV. | DATE | REVISION DESCRIPTION |
|---|---|---|
| 2 | 4-2012 | MINOR REVISIONS. |
| 1 | 1-2010 | INCLUDED COUNTDOWN PEDESTRIAN SIGNALS. |

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: 4/14/2012

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-1102_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

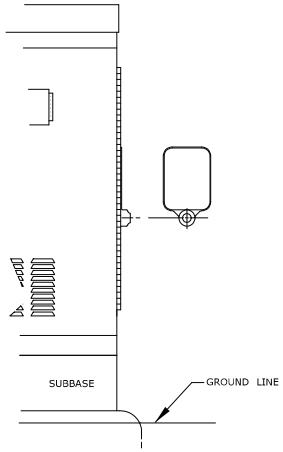
CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

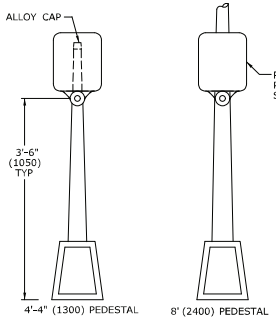
STANDARD SHEET TITLE:

# PEDESTALS, PEDESTRIAN SIGNALS

STANDARD SHEET NO.: TR-1102_01

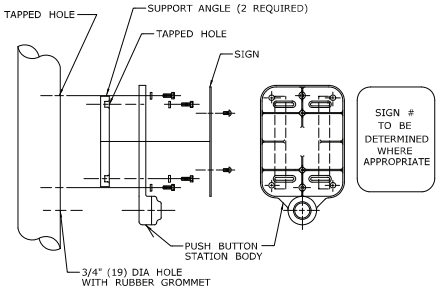



**SURFACE MOUNTED**




**PEDESTAL MOUNTED**

**SPAN POLE/MAST ARM MOUNTED**




**DETAIL A**




VARIABLE LEFT OR RIGHT ARROW

SIGN # 31-0833
USE APPROPRIATE LEFT OR RIGHT ARROW

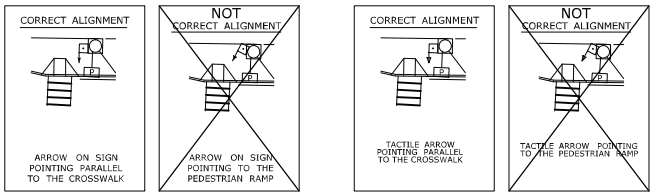



SIGN # 31-0835

**FOR CROSSING WITH SIDE STREET GREEN**

GENERAL NOTES:

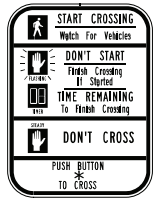
3'-6" (1050) FROM FINISHED GRADE SUCH AS SIDEWALK TO CENTER OF PUSH BUTTON.
PUSH BUTTON INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN, CURRENT EDITION GOVERNS.
4'-4" (1300) PEDESTAL TO INCLUDE ALLOY CAP SECURED WITH STAINLESS STEEL SET SCREW.




PEDESTRIAN PUSH BUTTON ALIGNMENT

ACCESSIBLE PEDESTRIAN SIGNAL AND DETECTOR

**EXAMPLE ALIGNMENTS FOR EXCLUSIVE PEDESTRIAN PHASE**




*USE APPROPRIATE ARROW UNLESS OTHERWISE NOTED ON PLAN.

FOR NEW PUSHBUTTON HOUSING, USE 9" x 15" SIGN NO. 31-0856.

FOR EXISTING PUSHBUTTON HOUSING, WITH 9" x 12" SIZE, USE SIGN NO. 31-0845.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
- PEDESTRIAN PUSH BUTTON
- PEDESTRIAN PUSH BUTTON, PEDESTAL MOUNTED
- PEDESTRIAN PUSH BUTTON, POLE MOUNTED

| REV. | DATE | REVISION DESCRIPTION |
|---|---|---|
| 3 | 8-2018 | UPDATED PEDESTRIAN SIGN LEGENDS AND NOTES. |
| 2 | 4-2014 | ADDED PEDESTRIAN EXAMPLE ALIGNMENTS |
| 1 | 4-2012 | MINOR REVISIONS & UPDATED SIGN #31-0845. |

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: 8/9/2018

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_2018-01-25.dgn Model: TR-1107_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

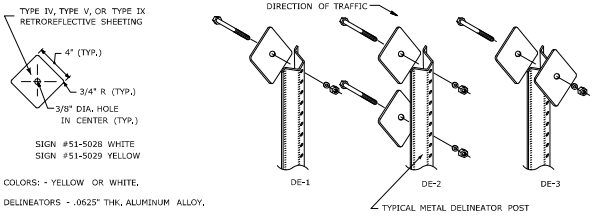
**PEDESTRIAN PUSH BUTTONS**

STANDARD SHEET NO.:

**TR-1107_01**

## DELINEATORS DE-1, DE-2, DE-3

### INSTALLATION ON DELINEATOR POSTS



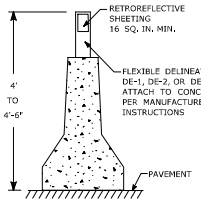

COLORS: - YELLOW OR WHITE.

DELINEATORS - .0625" THK. ALUMINUM ALLOY.

FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE IV, TYPE V, OR TYPE IX RETROREFLECTIVE SHEETING.

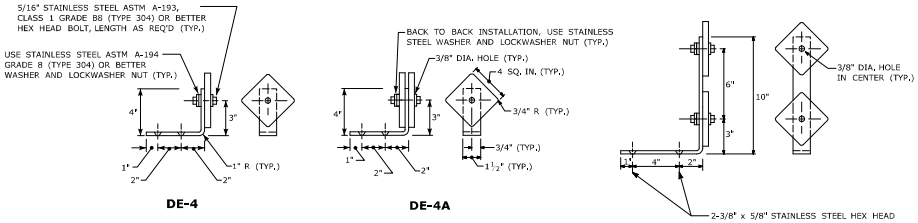
DELINEATORS SHALL BE FASTENED WITH 5/16" STAINLESS STEEL ASTM A-193 CLASS 1, GRADE B8 (TYPE 304) OR BETTER HEX HEAD BOLT (LENGTH AS REQUIRED), WASHER AND FIBER INSERT SELF LOCKING NUT, ON STANDARD METAL DELINEATOR POST.

### 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.**

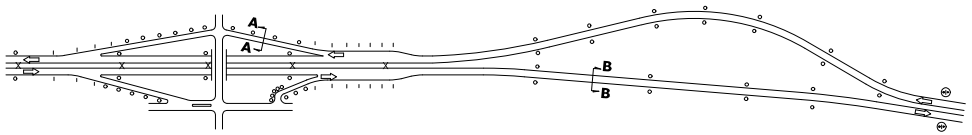
## DELINEATORS DE-4, DE-4A, DE-5 FOR INSTALLATION ON METAL BRIDGE RAIL

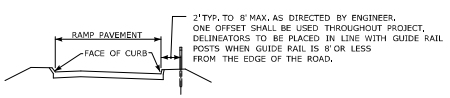



COLORS: - YELLOW OR WHITE.
DELINEATORS - .0625" THK. ALUMINUM ALLOY.
BRACKET - .125" THK. ALUMINUM ALLOY, AND SHALL CONFORM TO SPECIFICATION M.18.07-03 BRIDGE RAIL MOUNTING BRACKETS.
FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE IV, TYPE V, OR TYPE IX RETROREFLECTIVE SHEETING.
USE STAINLESS STEEL 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.**

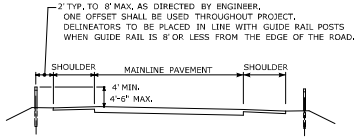
## TYPICAL MAINLINE & INTERCHANGE DELINEATION




**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:

- o DE-1 DELINEATORS OR DE-4 DELINEATOR ASSEMBLY
- DE-2 DELINEATORS OR DE-5 DELINEATOR ASSEMBLY
- X DE-3 DELINEATORS ASSEMBLY OR DE-4A DELINEATOR
- (D) 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

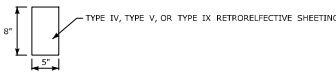
## MUTCD TABLE 3F-1 APPROXIMATE SPACING FOR DELINEATORS ON HORIZONTAL CURVES

| 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)



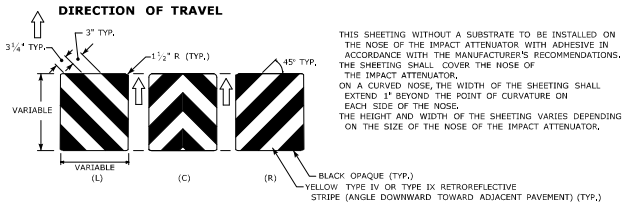

DE-7 ONE WAY WHITE
DE-7A ONE WAY YELLOW
DE-7B TWO WAY YELLOW
DE-7D TWO WAY WHITE
TEMPORARY PRECAST CONCRETE BARRIER DELINEATORS ARE TO BE FABRICATED OF ALUMINUM, STEEL, PLASTIC, OR OF A MATERIAL APPROVED BY THE ENGINEER AND MOUNTED IN THE CENTER OF EACH SECTION OF TEMPORARY BARRIER AS REQUIRED AND PER 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.**

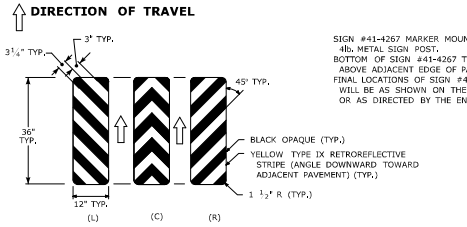
## ATTENUATOR REFLECTORS SIGN #40-4266




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:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

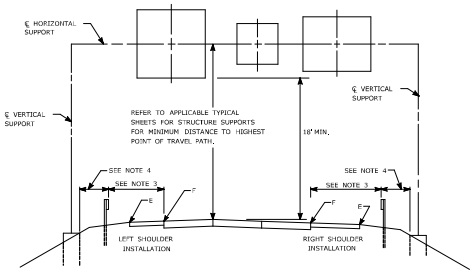
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

**DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS**

STANDARD SHEET NO.:

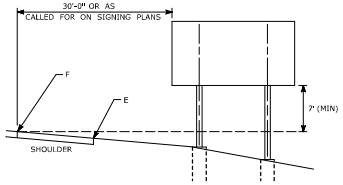
**TR-1205_01**




## 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.




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

NOTES:

1) MIN. VERTICAL CLEARANCE ABOVE SIDEWALKS SHALL BE 7'.
2) WHERE GUIDE RAIL IS USED, THE OFFSET TO THE NEAR EDGE OF SIGN FACE SHALL BE AS SHOWN ELSEWHERE IN THE CONTRACT PLANS.
3) ON INTERSECTING ROADS AT RAMP TERMINI, THE OFFSET TO THE NEAR EDGE OF OF SIGN FACE SHALL BE 6' MIN. FROM POINT "E".
4) IF 30'-0" MIN. CANNOT BE MET, PLEASE CONTACT THE ENGINEER.

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

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

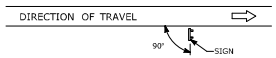



**DIAGRAM "A"**

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

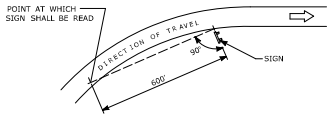


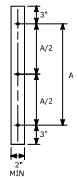

**DIAGRAM "B"**

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

RETROREFLECTIVE STRIPS 48" LONG OR LESS:




RETROREFLECTIVE STRIPS OVER 48" LONG:

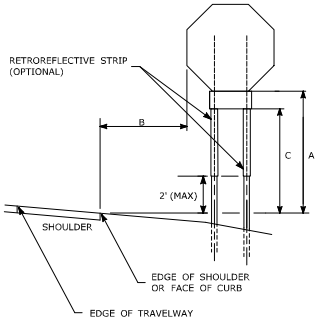


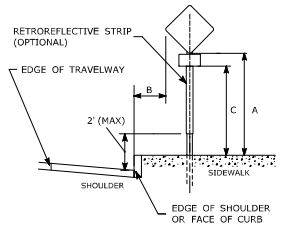

## RETROREFLECTIVE STRIP DETAIL

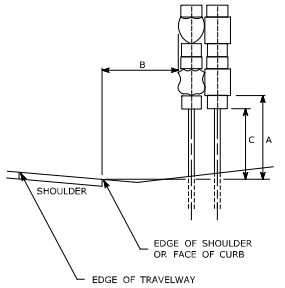
NOTES:

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.




## 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<br>• DO NOT ENTER AND WRONG WAY SIGNS ALONG EXIT RAMPS<br>• 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<br>• 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.

| REV. | DATE | REVISION DESCRIPTION |
|---|---|---|
| 3 | 8-2018 | INCLUDED INCIDENT MANAGEMENT AND MILE MARKER SIGNS. |
| 2 | 4-2017 | MINOR REVISIONS. |
| 1 | 2-2011 | MINOR REVISIONS. |

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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:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

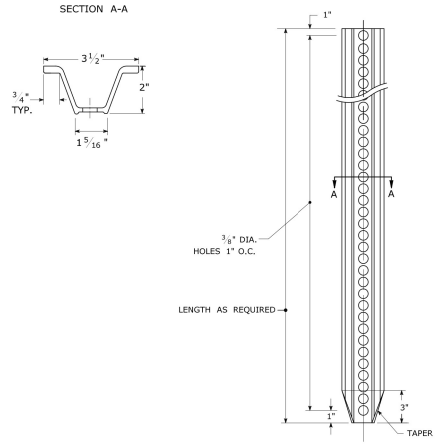
STANDARD SHEET TITLE:

# SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS

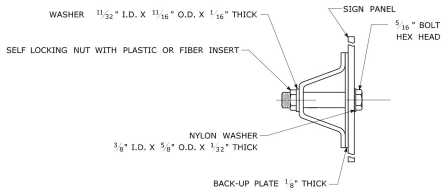
STANDARD SHEET NO.:

TR-1208_01

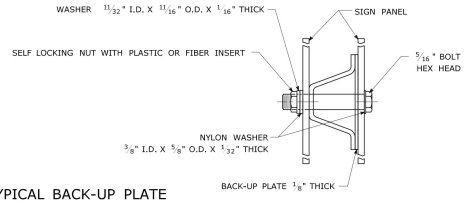
## TYPICAL METAL SIGN POSTS



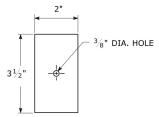

## TYPICAL SIGN PANEL ATTACHMENT




## TYPICAL BACK TO BACK SIGN PANEL ATTACHMENT



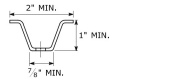

## TYPICAL BACK-UP PLATE



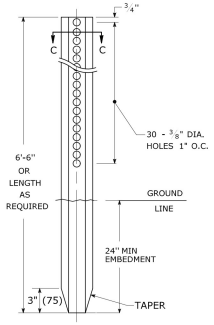

BOLTS - STAINLESS STEEL CONFORMING TO ASTM F593, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).
SELF LOCKING NUTS - STAINLESS STEEL CONFORMING TO ASTM F594, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).
WASHERS - STAINLESS STEEL CONFORMING TO ASTM A240, (ALLOY TYPES 304 OR 316).

## METAL DELINEATOR POST

WT./FT. = 1.12 LBS./FT. MIN.




SECTION C-C

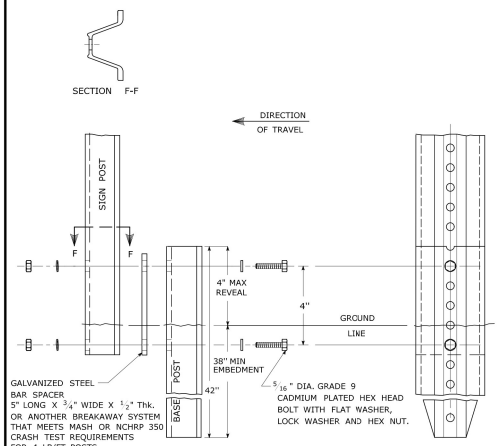



## GENERAL NOTES:

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

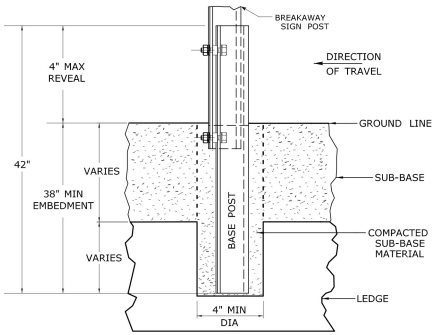
FOR 4 LBS./FT. POSTS



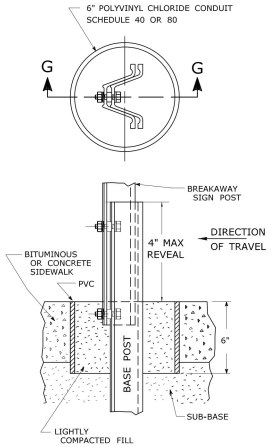

## TYPICAL SIGN POST INSTALLATION IN LEDGE

LEDGE SHALL BE REMOVED TO DRIVE THE BASE POST TO A DEPTH OF 38".

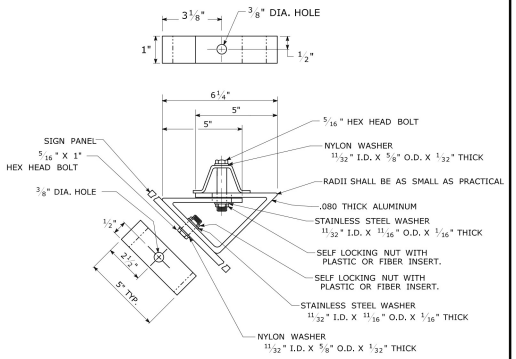
HOLE SHALL BE FILLED WITH SUB-BASE MATERIAL AND COMPACTED WITH A TAMPING BAR, OR TECHNIQUE APPROVED BY THE ENGINEER, PRIOR TO BASE POST INSTALLATION.




## 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. |

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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 F. Makuch, P.E. 2017.06.07 07:30:30-04'00'

APPROVED BY:
Mary E. Baker, P.E. 2017.06.13 15:28:14-04'00'

Gregory M. Dorosh, P.E. 2017.06.15 09:27:29-04'00'

**CTDOT STANDARD SHEET**

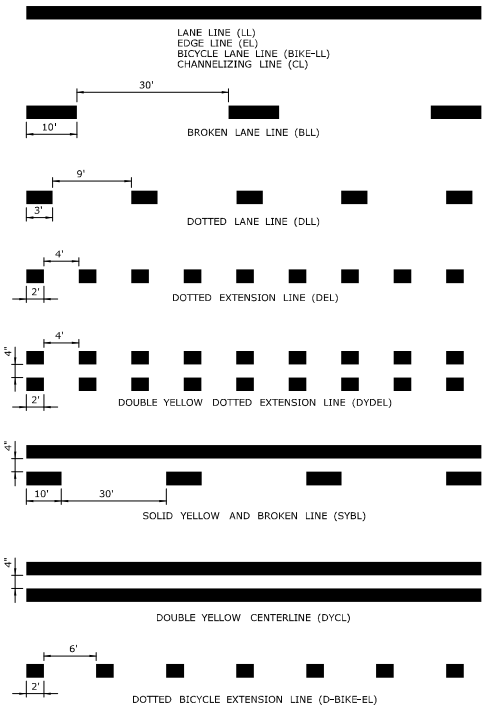
**OFFICE OF ENGINEERING**

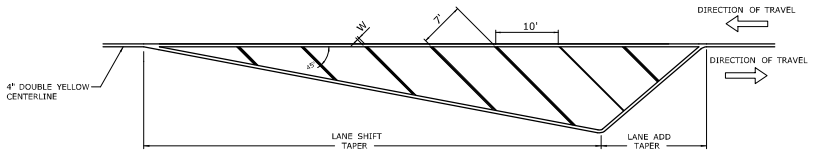
STANDARD SHEET TITLE:

# METAL SIGN POSTS AND SIGN MOUNTING DETAILS

GUIDE SHEET NO.:

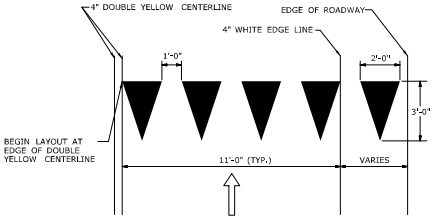
**TR-1208_02**



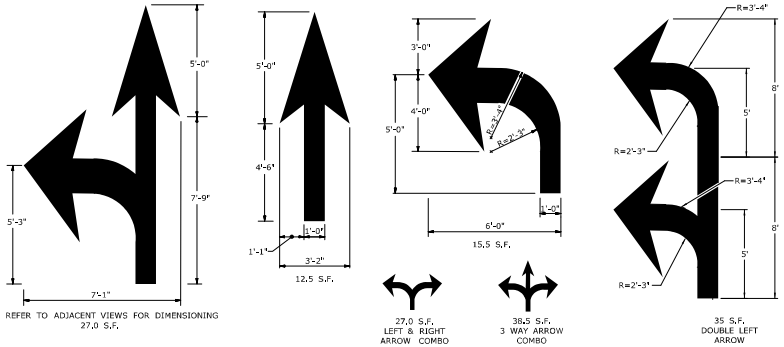




CROSS HATCHED ISLAND DETAIL
(YELLOW)

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

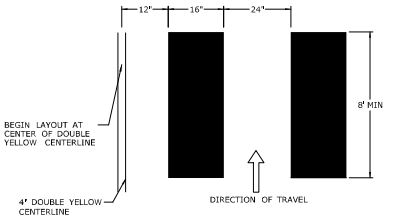



YIELD LINE DETAIL
(WHITE)




PAVEMENT ARROW DETAILS
(WHITE)

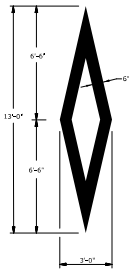
ARROWS SHALL BE CENTERED IN TRAVEL LANE



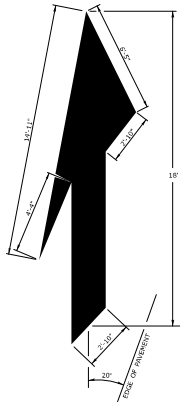

CROSSWALK DETAIL
(WHITE)

NOTES :

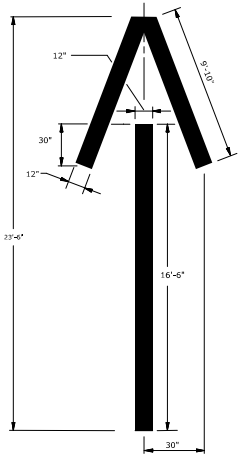
1. AREA OF PAVEMENT MARKINGS AS INDICATED IS APPROXIMATE.
2. RIGHT TURN PAVEMENT MARKING ARROWS ARE MIRROR IMAGE OF LEFT TURN PAVEMENT MARKING ARROWS.




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:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

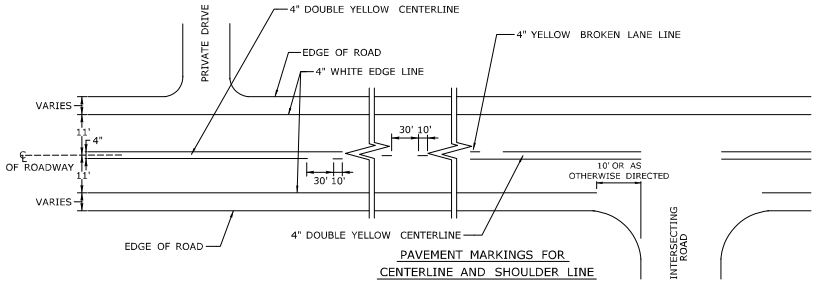
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

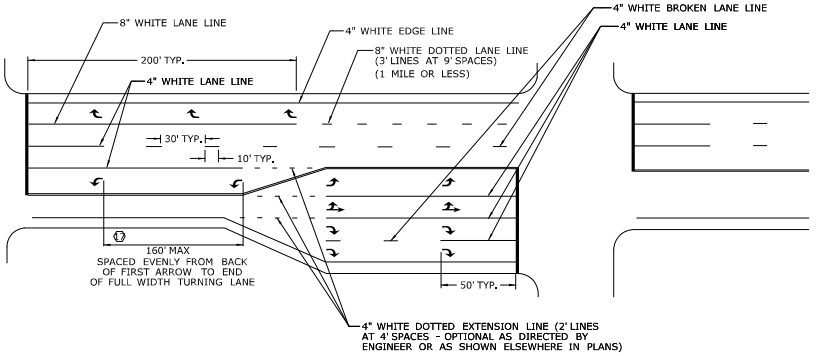
PAVEMENT MARKING LINES AND SYMBOLS

STANDARD SHEET NO.:

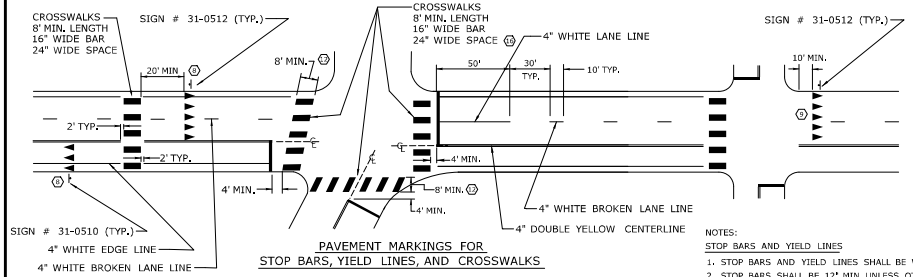
TR-1210_04



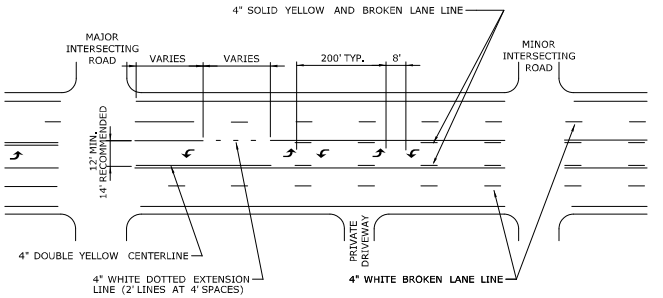

PAVEMENT MARKINGS FOR CENTERLINE AND SHOULDER LINE



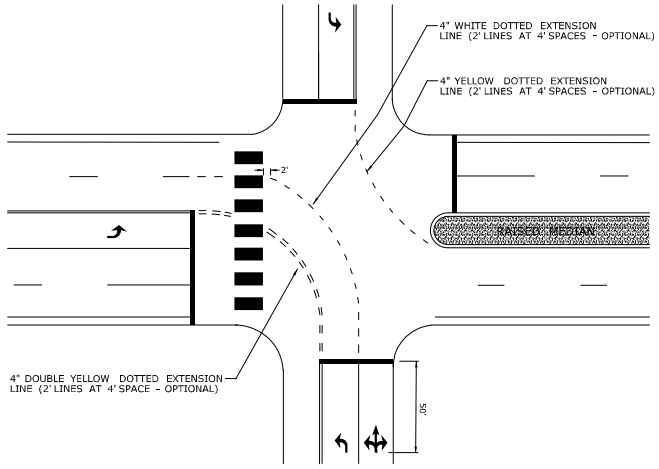

PAVEMENT MARKINGS FOR TURNING LANES AND ROAD LANE-DROP




PAVEMENT MARKINGS FOR STOP BARS, YIELD LINES, AND CROSSWALKS




TWO-WAY LEFT-TURN MARKINGS APPLICATIONS




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. (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. (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.

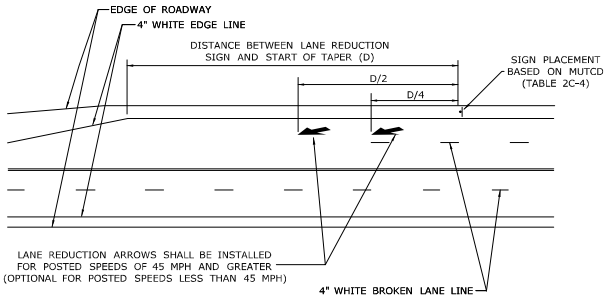
CROSSWALKS

11. CROSSWALK MARKINGS SHALL BE WHITE.
12. (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.

(10) 24" WIDE SPACE TO BE CENTERED ON YELLOW CENTERLINE.

PAVEMENT MARKINGS FOR TURNING LANES

(7) INSTALL AT LEAST TWO ARROWS PER LANE WHERE STORAGE LENGTH IS GREATER THAN 150 FEET.




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:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

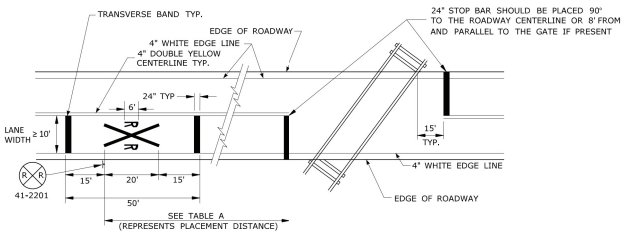
STANDARD SHEET TITLE:

PAVEMENT MARKINGS FOR NON FREEWAYS

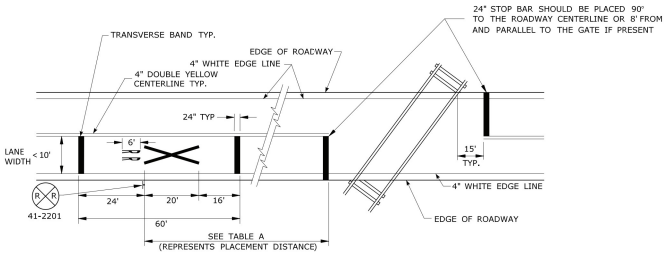
STANDARD SHEET NO.:

TR-1210_08

## TYPICAL RAILROAD GRADE CROSSING DETAIL (LANE WIDTH ≥ 10')

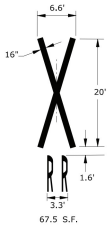



## TYPICAL RAILROAD GRADE CROSSING DETAIL (LANE WIDTH < 10')

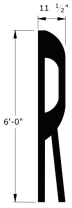





67.5 S.F.



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:

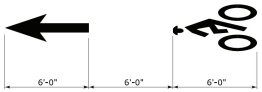
(5) AUTOMOBILE ACCESSIBLE PARKING SPACES SHALL BE 15' WIDE INCLUDING 5' OF CROSSHATCH.

(6) VAN ACCESSIBLE PARKING SPACES SHALL BE 16' WIDE INCLUDING 8' OF CROSSHATCH.

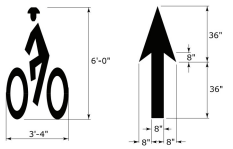
(7) ACCESS AISLES FOR ANGLED VAN PARKING SPACES SHALL BE LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACE.

8. CROSS HATCHED ACCESS AISLES SHALL NOT BE SHARED BETWEEN PARKING SPACES.

## TYPICAL LONGITUDINAL SPACING

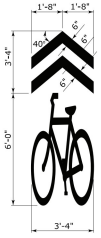



## BICYCLE LANE SYMBOL MARKINGS



5.8 S.F.
4.7 S.F.

## SHARED LANE SYMBOL MARKING



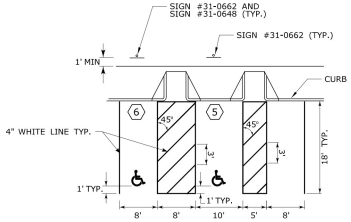
9.7 S.F.

## BICYCLE DETECTOR SYMBOL MARKING

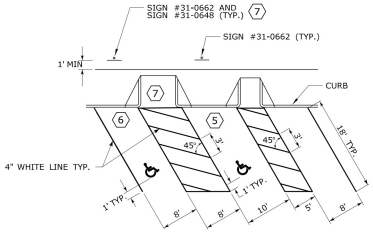


0.7 S.F.

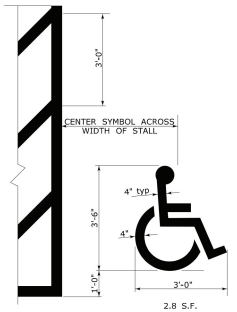
## TYPICAL PERPENDICULAR PARKING STALLS DETAIL




## 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




COPY & BORDER - WHITE
BACKGROUND - GREEN

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 16.0 | 48 | 51-6147 | 2 |

## 16 - SERIES



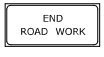

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 5.0 | 30X24 | 80-1613 | 1 |
| 17.5 | 60X42 | 80-1608 | 2 |
| 35.0 | 84X60 | 80-1605 | 2 |




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 10.0 | 48X30 | 80-1619 | 2 |

## G20 - SERIES

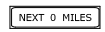
G20-2a




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 8.0 | 48X24 | 80-9612 | 2 |




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 9.0 | 36 | 80-9711 | 1 |
| 16.0 | 48 | 80-9712 | 2 |




VARIABLE MILEAGE

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 7.0 | 72X14 | 80-9720 | |




VARIABLE ARROW
COPY & BORDER - WHITE
BACKGROUND - BLUE

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 9.0 | 36 | 50-5934 | 2 |

G20-2b




VARIABLE MILEAGE

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 90.0 | 120X108 | 80-9728 | |

## M4 - SERIES

M4-8



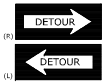

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 2.0 | 24X12 | 80-9707 | 1 |

M4-8a




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 3.0 | 24X18 | 80-9708 | 1 |

M4-10




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 6.0 | 48X18 | 80-9701R | 2 |
| 6.0 | 48X18 | 80-9702L | 2 |




VARIABLE ARROW

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 5.0 | 30X24 | 80-9710 | 1 |

M4-9b




VARIABLE ARROW

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 5.0 | 30X24 | 80-9703 | 1 |

M4-9b




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




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




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

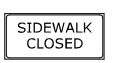



COPY & BORDER - RED
BACKGROUND - WHITE

| 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




COPY & BORDER - BLACK
BACKGROUND - WHITE

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 3.75 | 30X18 | 80-9076 | 1 |

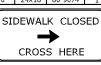
R9-11




VARIABLE ARROW
COPY & BORDER - BLACK
BACKGROUND - WHITE

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 3.0 | 24X18 | 80-9074 | 1 |

R9-11a




VARIABLE ARROW
COPY & BORDER - BLACK
BACKGROUND - WHITE

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 2.0 | 24X12 | 80-9075 | 1 |

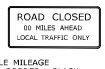
R11-2




COPY & BORDER - BLACK
BACKGROUND - WHITE

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 10.0 | 48X30 | 80-9080 | 2 |

R11-3a




VARIABLE MILEAGE
COPY & BORDER - BLACK
BACKGROUND - WHITE

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 12.5 | 60X30 | 80-9077 | 2 |

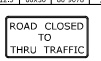
R11-3b




VARIABLE MILEAGE
COPY & BORDER - BLACK
BACKGROUND - WHITE

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 12.5 | 60X30 | 80-9078 | 2 |

R11-3b




COPY & BORDER - BLACK
BACKGROUND - WHITE

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 12.5 | 60X30 | 80-9081 | 2 |




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 |

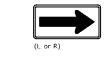
## W1 - SERIES

W1-1



| 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 |

W1-3



| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 16.0 | 48 | 80-9434L | 2 |
| 16.0 | 48 | 80-9433L | 2 |
| 16.0 | 48 | 80-9436R | 2 |
| 16.0 | 48 | 80-9435R | 2 |

W1-4



| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 25.0 | 60 | 80-9443L | 2 |
| 25.0 | 60 | 80-9445R | 2 |

W1-4b



| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 25.0 | 60 | 80-9444L | 2 |
| 25.0 | 60 | 80-9446R | 2 |

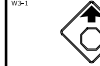
W1-4c



| 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 |

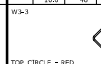
W3-2



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




| 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




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 9.0 | 36 | 80-9901 | 1 |
| 16.0 | 48 | 80-9902 | 2 |




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 9.0 | 36 | 80-9801 | 1 |
| 16.0 | 48 | 80-9802 | 2 |

W9-2




| 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




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 |




VARIABLE SPEED

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 9.0 | 36 | 80-9506 | 1 |
| 16.0 | 48 | 80-9508 | 2 |

W13-5




VARIABLE SPEED

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 9.0 | 36 | 80-9520 | 1 |
| 16.0 | 48 | 80-9521 | 2 |

## W-16 - SERIES

W16-15P




COPY & BORDER - BLACK
BACKGROUND - ORANGE

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 2.0 | 24X12 | 80-9049 | |

## W20 - SERIES

W20-1




| 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




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




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 9.0 | 36 | 80-9805 | 1 |
| 16.0 | 48 | 80-9806 | 2 |




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 9.0 | 36 | 80-9834 | 1 |
| 16.0 | 48 | 80-9835 | 2 |




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| (L) 16.0 | 48 | 80-9836 | 2 |
| (R) 16.0 | 48 | 80-9839 | 2 |




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| (L) 16.0 | 48 | 80-9837 | 2 |
| (R) 16.0 | 48 | 80-9838 | 2 |




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| (L) 16.0 | 48 | 80-9847 | 2 |
| (R) 16.0 | 48 | 80-9848 | 2 |

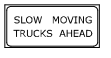



| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| (L) 16.0 | 48 | 80-9846 | 2 |
| (R) 16.0 | 48 | 80-9849 | 2 |

W20-7a



| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 9.0 | 36 | 80-9803 | 1 |
| 16.0 | 48 | 80-9804 | 2 |




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 32.0 | 96X48 | 80-9815 | 2 |

W16-9P




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 2.0 | 24X12 | 80-9870 | |
| 3.75 | 30X18 | 80-9871 | |

W16-3aP




VARIABLE MILEAGE

| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 2.5 | 30X12 | 80-9872 | |
| 4.5 | 36X18 | 80-9873 | |

## W21 - SERIES

W21-5




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 9.0 | 36 | 80-9607 | 1 |

## W22 - SERIES

W22-1




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 9.0 | 36 | 80-9620 | 1 |
| 16.0 | 48 | 80-9625 | 2 |

W22-2




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 10.5 | 42X36 | 80-9623 | 2 |

W22-3




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 10.5 | 42X36 | 80-9621 | 2 |

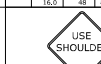



| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 4.17 | 60X10 | 80-9913 | 2 |
| 13.0 | 96X18 | 80-9914 | 2 |
| 3.33 | 48X10 | 80-9916 | 2 |



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 |




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 16.0 | 48 | 80-9956 | 2 |




| AREA (SQ. FT) | SIZE (INCHES) | CONN. D.O.T. # | POSTS |
|---|---|---|---|
| 12.5 | 60X30 | 80-9928 | 2 |
| 24.0 | 72X48 | 80-9929 | 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
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:

APPROVED BY: NAME/DATE/TIME:

CTDOT
STANDARD SHEET

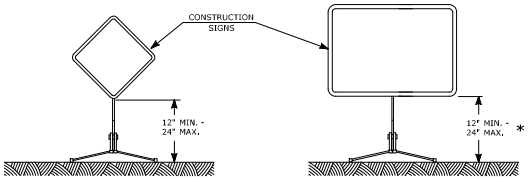
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS

STANDARD SHEET NO.:

TR-1220_01

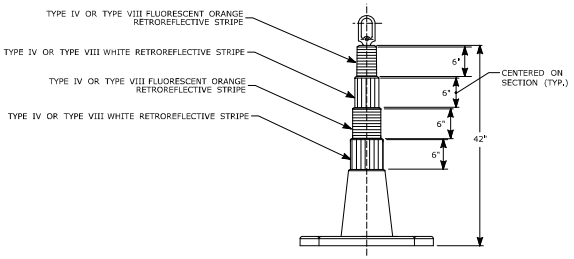



## PORTABLE CONSTRUCTION SIGNS

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.

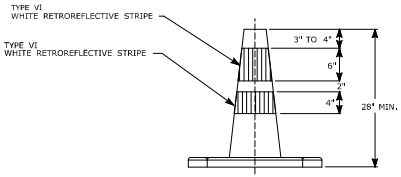
* FOR E5-1 (EXIT SIGNS) USE MIN 48".




## 42" TRAFFIC CONE

NOTES:

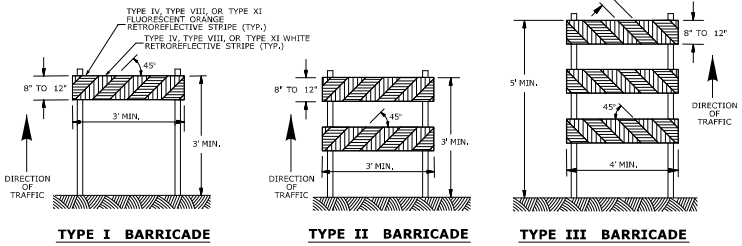
1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
4. THE ENGINEER 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:

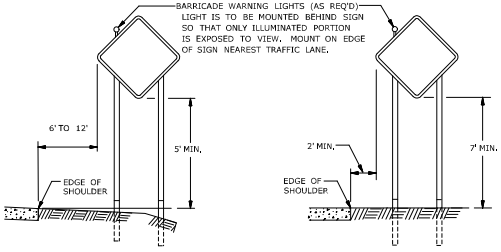
1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
4. THE ENGINEER 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.

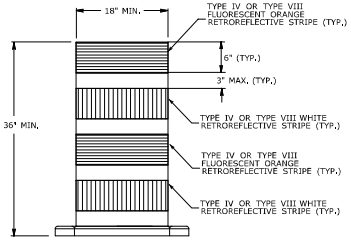



## PLACEMENT OF CONSTRUCTION SIGNS
## TYPICAL LONG TERM INSTALLATION

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-1220-02-7-2018.dgn Model: TR-1220-02

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

# CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES

STANDARD SHEET NO.:

TR-1220_02