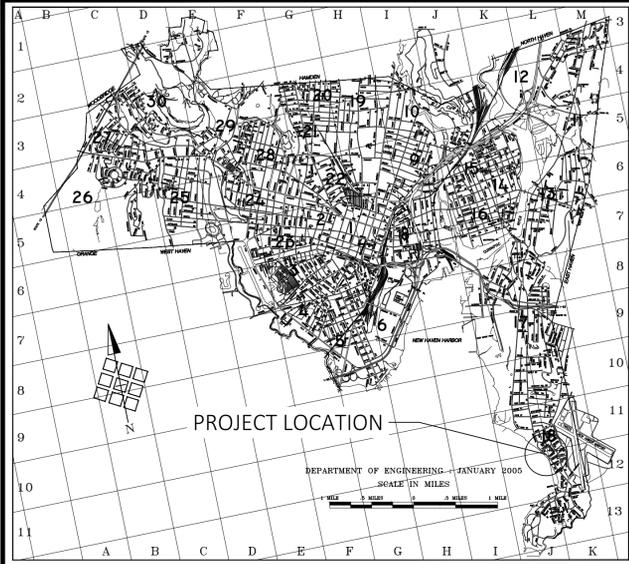


C:\USERS\WEBER\CITY OF NEW HAVEN, CT\ENGINEERING DEPARTMENT - PROJECTS\25-107-01 TOWNSEND AVE PED IMPROVEMENTS\DRAWINGS\SHEET\TOWNSEND SIDEWALK PHASE 1.DWG



CITY OF NEW HAVEN DEPARTMENT OF ENGINEERING TOWNSEND AVENUE (ROUTE 337) PEDESTRIAN IMPROVEMENTS PHASE 1

CITY PROJECT NUMBER 25-107-01
100% CONSTRUCTION DOCUMENTS

SHEET LIST TABLE	
SHEET NO.	SHEET TITLE
C-0	COVER SHEET
C-1	SITE PLANS
D-1 - D-17	DETAILS
TCS-1	RRFB PLAN - ROUTE 337 AT FLORENCE AVE
TCS-2	RRFB PLAN - ROUTE 337 AT BEECHER PL

FORM 819 CONSTRUCTION NOTES

1. ALL WORK WITHIN THE STATE RIGHT-OF-WAY WILL COMPLY WITH FORM 819, "THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION" WITH THE LATEST SPECIAL PROVISIONS AND TYPICAL STATE STANDARD DETAILS. IN ANY CASE WHERE THE CONSTRUCTION IS NOT SPECIFICALLY DETAILED IN THE FORM 819, THE WORK WILL BE COMPLETED AS DIRECTED BY THE ENGINEER OR DISTRICT PERMIT SECTION REPRESENTATIVE.
2. REMOVAL OF PAVEMENT MARKINGS ALONG STATE ROADWAYS SHALL BE COMPLETED BY A NON-DESTRUCTIVE METHOD IN COMPLIANCE WITH THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 819 SECTION 12.11 AS REVISED.
3. NEW PAVEMENT MARKINGS SHALL BE PAINTED WITH EPOXY RESIN PAINT IN COMPLIANCE WITH THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 819 SECTION 12.10 AS REVISED.
4. NEW SIGN MATERIAL AND SHEETING SHALL BE MADE OF REFLECTIVE MATERIAL IN COMPLIANCE WITH THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 819 SECTION 12.08 AS REVISED. TYPE 1 REFLECTIVE SHEETING SHALL BE USED FOR SIGNS WITH WHITE BACKGROUND, TYPE 3 REFLECTIVE SHEETING SHALL BE USED FOR SIGNS WITH COLORED BACKGROUND EXCEPT FOR SIGNS WITH RED BACKGROUND THAT SHALL BE TYPE 8 OR 9 REFLECTIVE SHEETING.
5. ALL SIGNS AND PAVEMENT MARKINGS INSTALLED WITHIN THE STATE RIGHT OF WAY MUST CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST STATE OF CONNECTICUT CATALOG OF SIGNS, AS REVISED.
6. EXCAVATION, INCLUDING REMOVAL OF ANY EXISTING SIDEWALK (BITUMINOUS OR CONCRETE) AND CURBING SHALL BE MADE TO THE REQUIRED DEPTHS BELOW THE FINISHED GRADE, AS SHOWN ON THE PLANS OR AS DIRECTED. WHEN CONNECTING NEW CONCRETE SIDEWALK TO A SECTION OF EXISTING CONCRETE SIDEWALK, THE CONNECTION POINT SHALL BE AT THE NEAREST JOINT IN THE EXISTING SIDEWALK. THE SURFACE OF THE CONCRETE SHALL BE FINISHED WITH A WOOD FLOAT OR BY OTHER APPROVED MEANS. THE OUTSIDE EDGES OF THE SLAB AND ALL JOINTS SHALL BE EDGED WITH A 1/4 INCH RADIUS EDGING TOOL. EACH SLAB SHALL BE DIVIDED INTO 2 OR MORE SECTIONS BY FORMING DUMMY JOINTS WITH A JOINTING TOOL AS DIRECTED.
7. ANY DAMAGE TO THE EXISTING CURB, SIDEWALK OR ANY OTHER HIGHWAY APPURTENANCES DURING THE DEVELOPMENT OF THE PERMITTED SITE WILL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE DISTRICT 3 PERMIT SECTION AT NO COST TO THE STATE OR CITY.
8. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING UTILITY LOCATIONS IN THE FIELD PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL PROTECT UTILITIES AS NECESSARY AND IS RESPONSIBLE FOR ALL DAMAGE INCURRED AT NO COST TO THE STATE OR CITY.
9. THE DETECTABLE WARNING SURFACE FOR NEW CONSTRUCTION SHALL BE SET DIRECTLY IN PLASTIC CONCRETE AND EACH TILE SHALL BE WEIGHED DOWN TO PREVENT THE TILE FROM FLOATING AFTER PLACEMENT IN WET CONCRETE IN ACCORDANCE WITH CURING PROCEDURES. INSTALL DETECTABLE WARNING SURFACE ACCORDING TO THE PLANS AND THE MANUFACTURER'S REQUIREMENTS, OR AS DIRECTED BY THE ENGINEER.
10. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE OF CONNECTICUT AND CITY OF NEW HAVEN PERMITS.

CONSTRUCTION SPECIFICATIONS

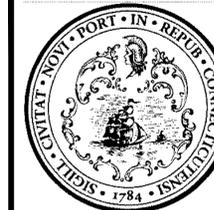
CONNECTICUT DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION FORM 819

CITY OF NEW HAVEN CONSTRUCTION STANDARDS

HONORABLE JUSTIN M. ELICKER, MAYOR

GIOVANNI ZINN, P.E.
CITY ENGINEER

CITY OF NEW HAVEN CONNECTICUT	
APPROVED:	
_____ GIOVANNI ZINN, P.E.	_____ DATE



No.	Revision/Issue	Date
3	CTDOT Comments	1/26
2	CTDOT Comments	12/25
1	CTDOT Comments	11/25



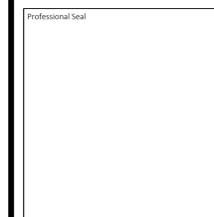
CITY OF NEW HAVEN
DEPARTMENT OF ENGINEERING

THE HONORABLE JUSTIN M. ELICKER, MAYOR
GIOVANNI ZINN, P.E., CITY ENGINEER



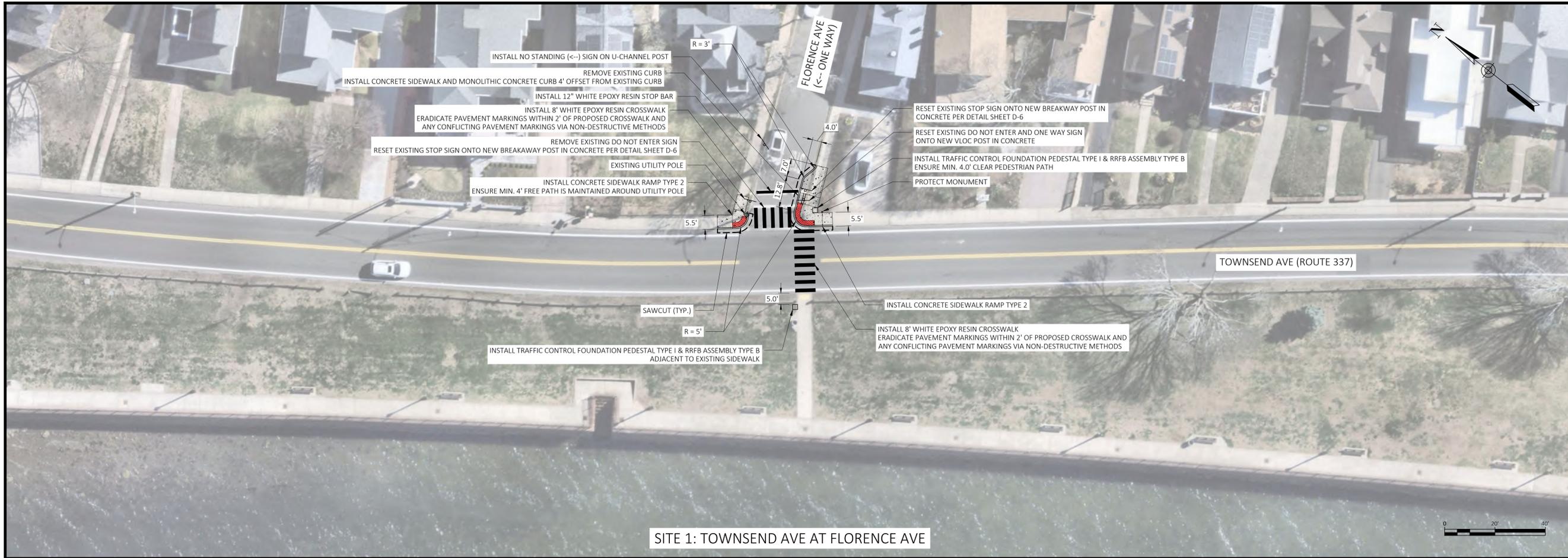
Project Name and Address
**TOWNSEND AVE
(ROUTE 337)
PEDESTRIAN
IMPROVEMENTS**

Drawn By	A. WEBER
Designed By	A. WEBER
Date	1/8/2026
Project Number	25-107-01

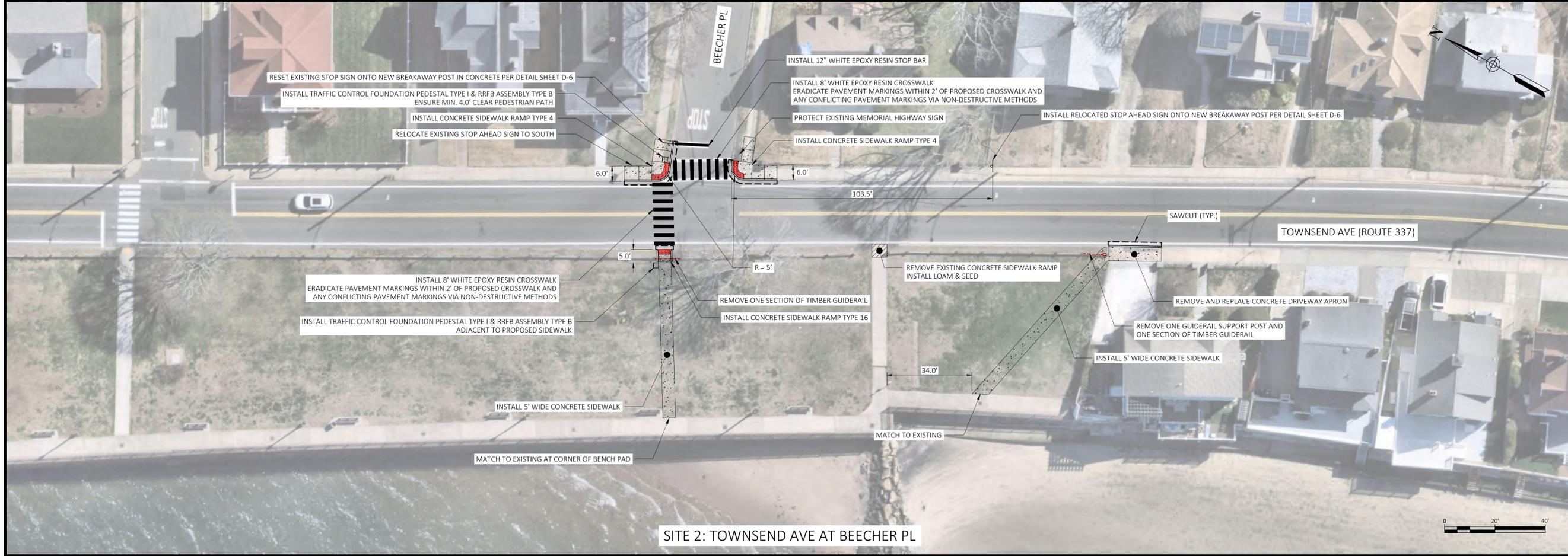


Sheet Title	COVER
Sheet Number	C-0

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SITE 1: TOWNSEND AVE AT FLORENCE AVE



SITE 2: TOWNSEND AVE AT BEECHER PL



No.	Revision/Issue	Date
3	CTDOT Comments	1/26
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1	CTDOT Comments	11/25



CITY OF NEW HAVEN
DEPARTMENT OF ENGINEERING

THE HONORABLE JUSTIN M. ELICKER, MAYOR
GIOVANNI ZINN, P.E., CITY ENGINEER



Project Name and Address
**TOWNSEND AVE (ROUTE 337)
PEDESTRIAN IMPROVEMENTS**

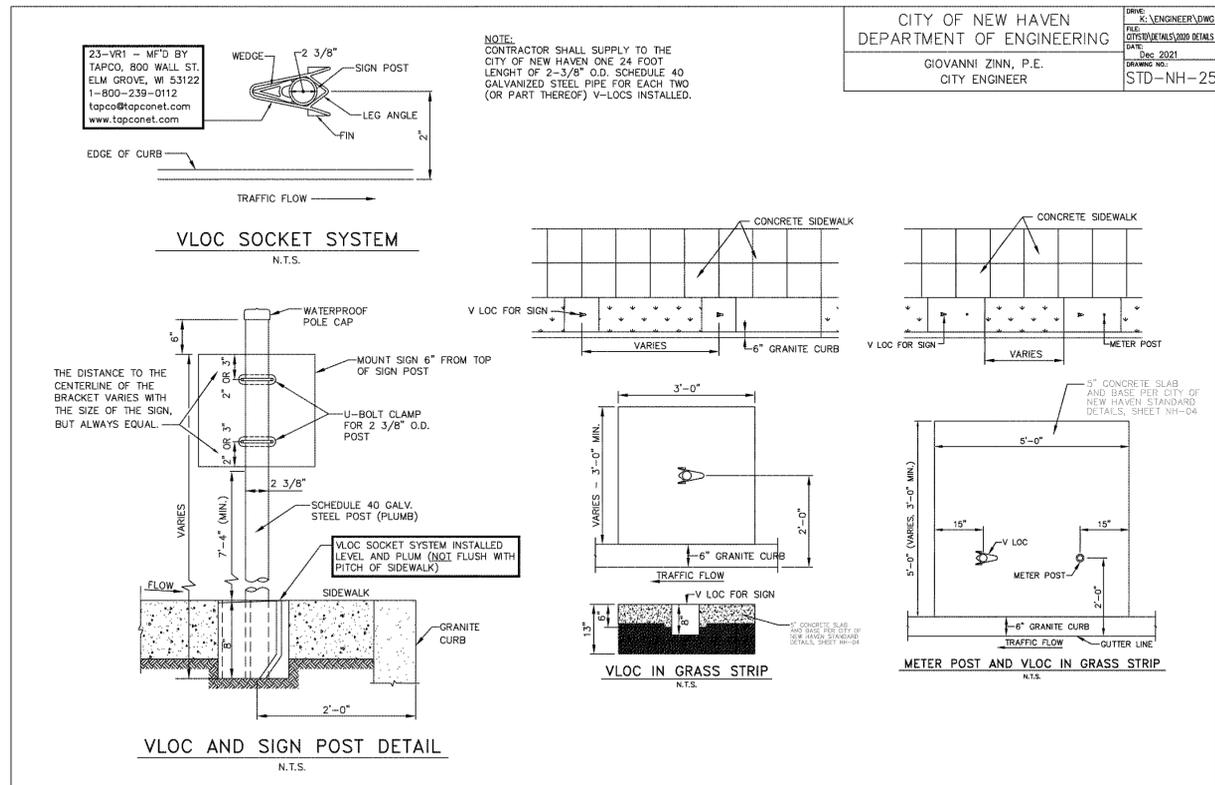
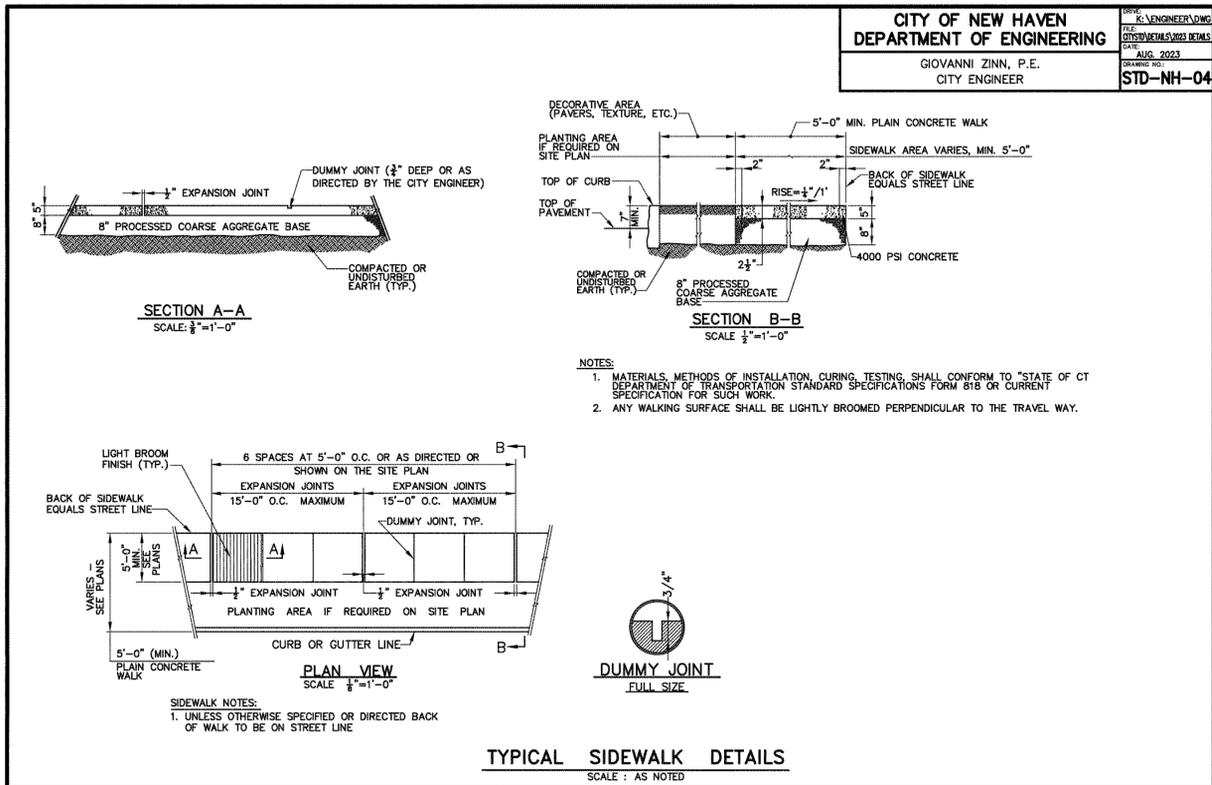
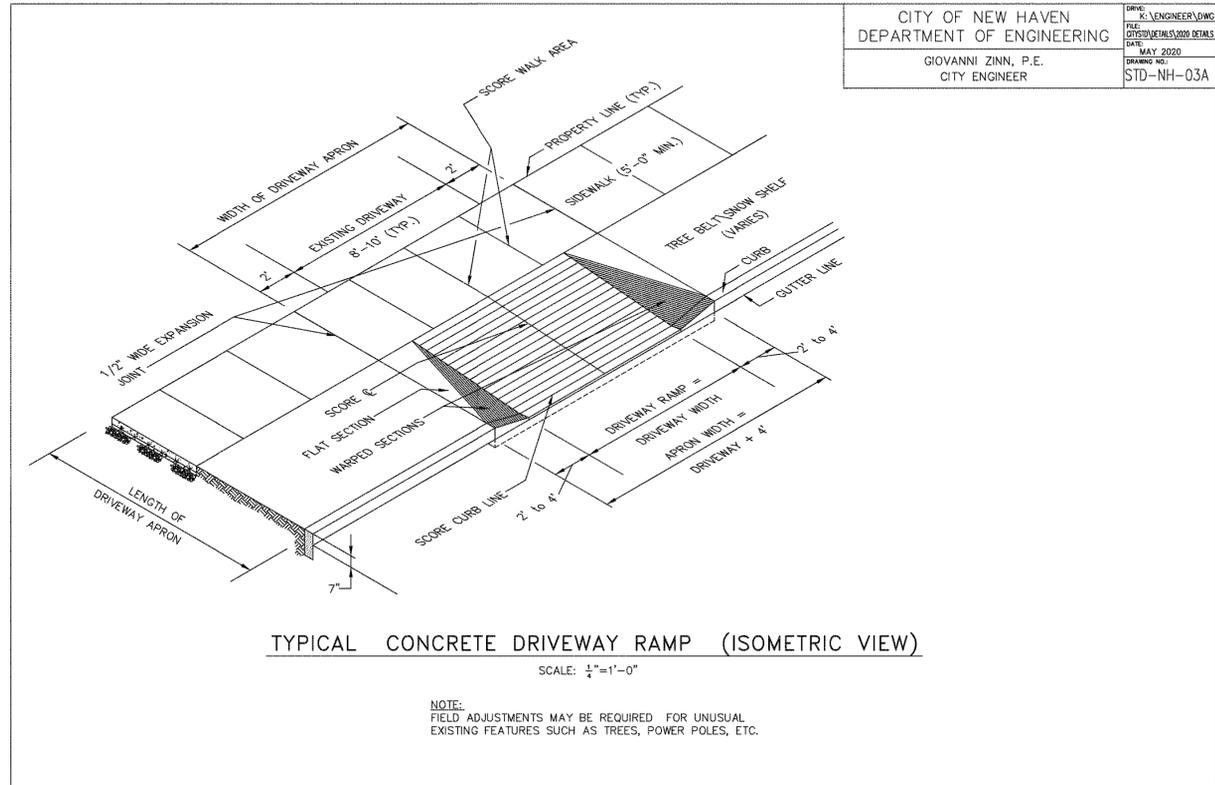
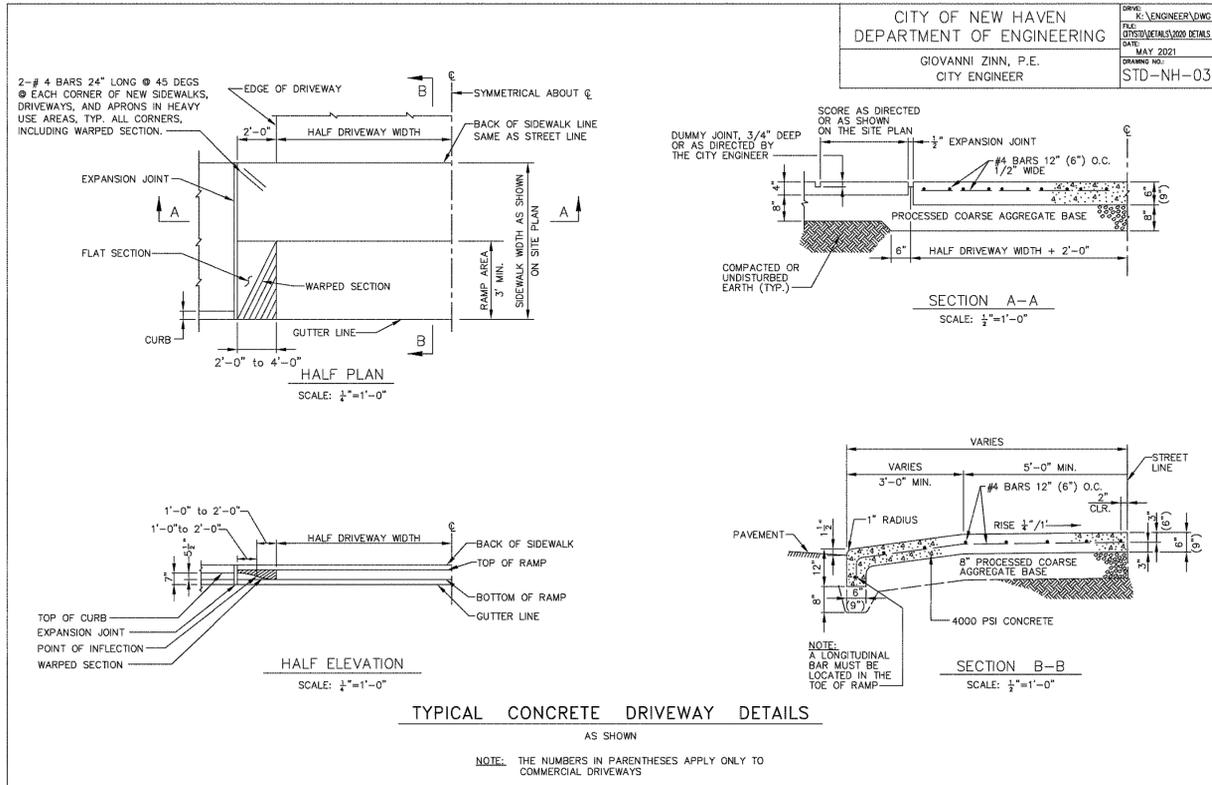
Drawn By	A. WEBER
Designed By	A. WEBER
Date	1/8/2026
Project Number	25-107-01

Professional Seal

Sheet Title
SITE PLAN

Sheet Number
C-1

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No.	Revision/Issue	Date
3	CTDOT Comments	1/26
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1	CTDOT Comments	11/25



CITY OF NEW HAVEN
DEPARTMENT OF ENGINEERING

THE HONORABLE JUSTIN M. ELICKER, MAYOR
GIOVANNI ZINN, P.E., CITY ENGINEER

Project Name and Address
TOWNSEND AVE (ROUTE 337) PEDESTRIAN IMPROVEMENTS

Drawn By: A. WEBER
Designed By: A. WEBER
Date: 1/8/2026
Project Number: 25-107-01

Professional Seal

Sheet Title: DETAILS
Sheet Number

D-1



No.	Revision/Issue	Date
3	CTDOT Comments	1/26
2	CTDOT Comments	12/25
1	CTDOT Comments	11/25



CITY OF NEW HAVEN
DEPARTMENT OF ENGINEERING

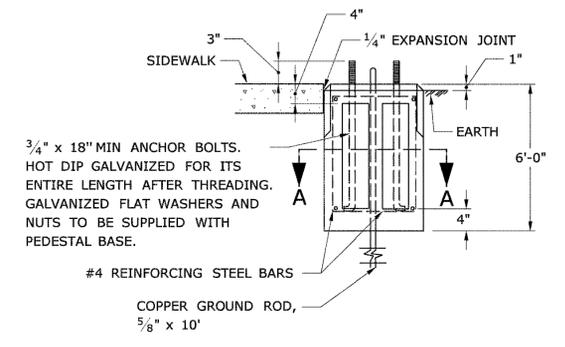
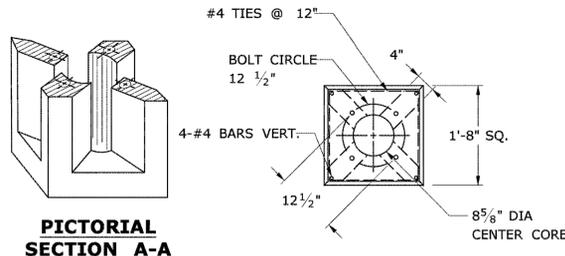
THE HONORABLE JUSTIN M. ELICKER, MAYOR
GIOVANNI ZINN, P.E., CITY ENGINEER

Project Name and Address
TOWNSEND AVE
(ROUTE 337)
PEDESTRIAN
IMPROVEMENTS

Drawn By: A. WEBER
Designed By: A. WEBER
Date: 1/8/2026
Project Number: 25-107-01

Professional Seal

Sheet Title: DETAILS
Sheet Number: D-2



**TRAFFIC CONTROL FOUNDATION
PEDESTAL - TYPE I - PRECAST**

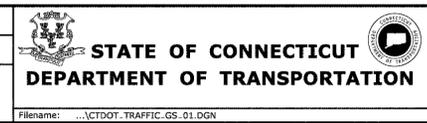
TRAFFIC CONTROL FOUNDATION PEDESTAL TYPE I NOTES:
INSTALL FOUNDATION ON 12" OF COMPACTED GRAVEL IN ACCORDANCE WITH SECTION 2.14.
LEVEL FOUNDATION WITH A PROJECTION OF 1" ABOVE FINISHED GRADE.
INSTALL COPPER GROUND ROD: 5/8" X 10'
PLACE NO. 6 CRUSHED STONE IN THE CENTER OPENINGS AFTER THE CONDUITS AND
GROUND ROD HAVE BEEN INSTALLED.
CONCRETE: (PRECAST) PRC04060 IN ACCORDANCE WITH ARTICLE M.14.01

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

<input checked="" type="checkbox"/>	PROPOSED CONTROLLER
<input checked="" type="checkbox"/>	EXISTING CONTROLLER
<input type="checkbox"/>	PEDESTAL MOUNTING

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 2/23/2024
2	6-2023	REVISED MINIMUM CONCRETE CLASS AND MINOR REVISIONS		
1	7-2021	REVISED MINIMUM CONCRETE CLASS.		

DESIGNER/DRAFTER:
CHECKED BY:
NOT TO SCALE



SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
TOWN:
PROJECT NO.
DRAWING NO.
SHEET NO.

DRAWING TITLE:
**TRAFFIC CONTROL
FOUNDATIONS**

C:\USERS\WEBER\CITY OF NEW HAVEN, CT\ENGINEERING DEPARTMENT - PROJECTS\25-107-01 TOWNSEND AVE PED IMPROVEMENTS\DRAWINGS\SHEET\TOWNSEND SIDEWALK PHASE 1.DWG



No.	Revision/Issue	Date
3	CTDOT Comments	1/26
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1	CTDOT Comments	11/25



CITY OF NEW HAVEN
DEPARTMENT OF ENGINEERING

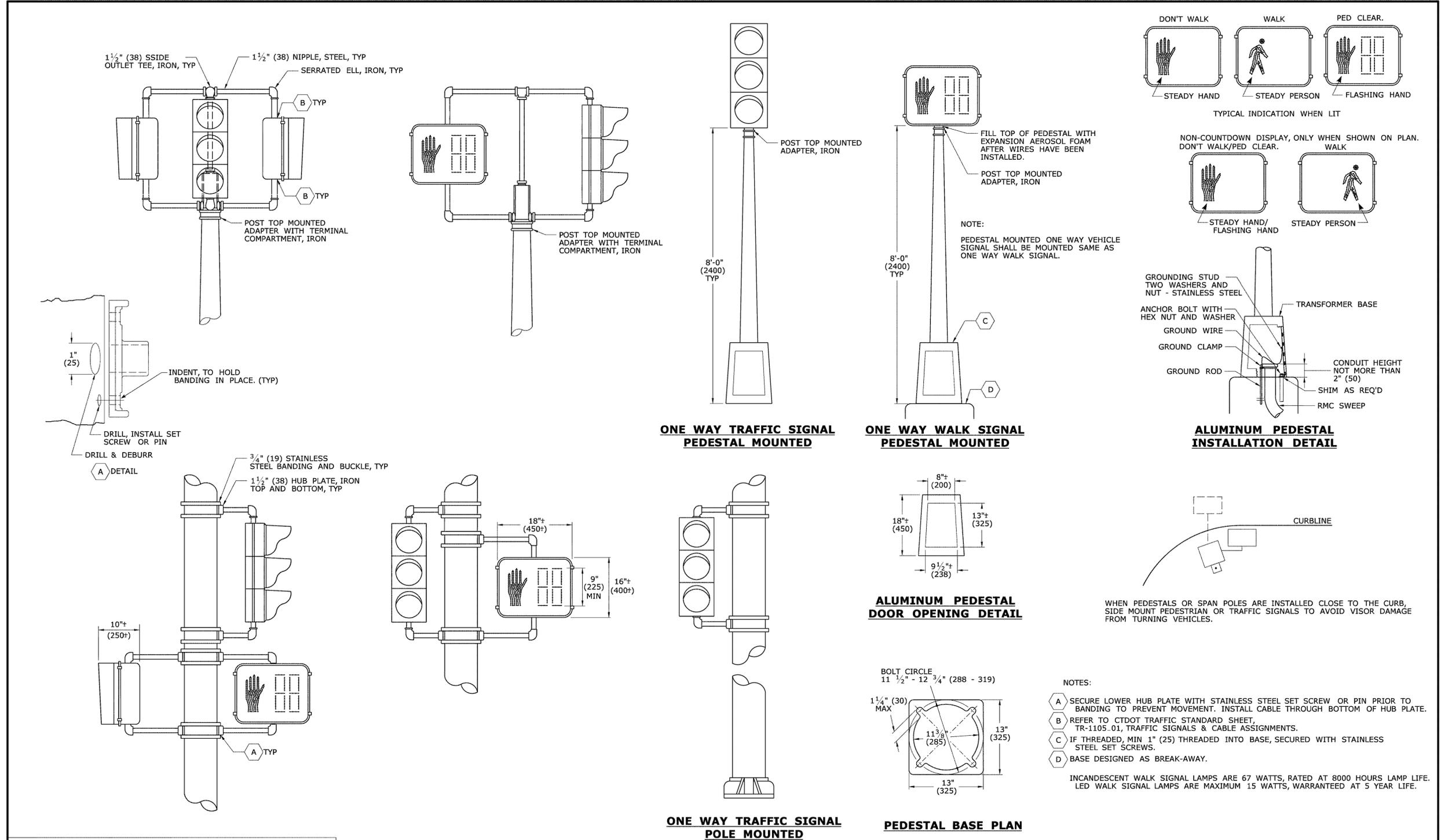
THE HONORABLE JUSTIN M. ELICKER, MAYOR
GIOVANNI ZINN, P.E., CITY ENGINEER

Project Name and Address
TOWNSEND AVE
(ROUTE 337)
PEDESTRIAN
IMPROVEMENTS

Drawn By: A. WEBER
Designed By: A. WEBER
Date: 1/8/2026
Project Number: 25-107-01

Professional Seal

Sheet Title: DETAILS
Sheet Number: D-3



LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

	STEEL SPAN POLE, MAST ARM ASSEMBLY SHAFT		PEDESTRIAN SIGNAL
	ALUMINUM PEDESTAL		PEDESTAL MOUNTED, TRAFFIC & PEDESTRIAN SIGNALS
	TRAFFIC SIGNAL		POLE MOUNTED, TRAFFIC & 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 (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:
Tracy L. Fogarty 2012.05.01 12:55:27-04'00'

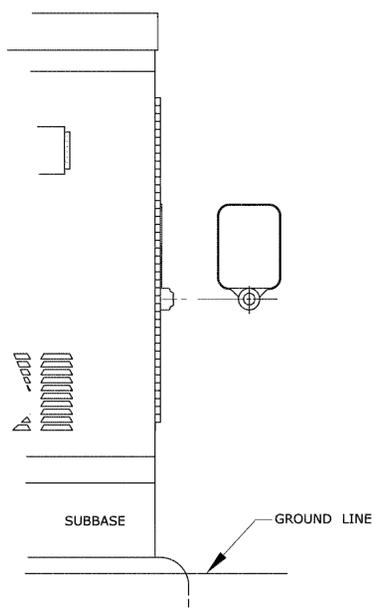
APPROVED BY: NAME/DATE/TIME:
Timothy M. Wilson 2012.05.09 10:24:58-04'00'

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

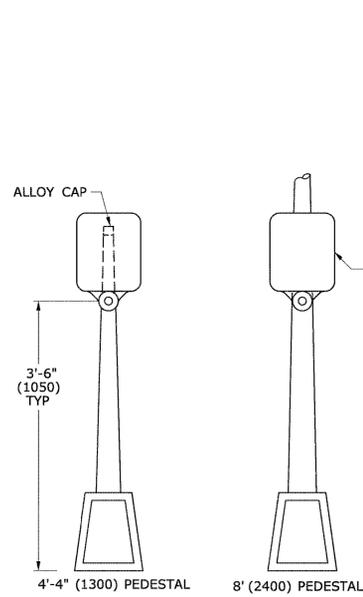
STANDARD SHEET TITLE:
PEDESTALS, PEDESTRIAN SIGNALS

STANDARD SHEET NO.:
TR-1102_01

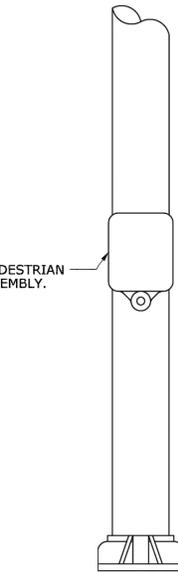
C:\USERS\WEBER\CITY OF NEW HAVEN, CT\ENGINEERING DEPARTMENT - PROJECTS\25-107-01 TOWNSEND AVE PED IMPROVEMENTS\DRAWINGS\SHEET\TOWNSEND SIDEWALK PHASE 1.DWG



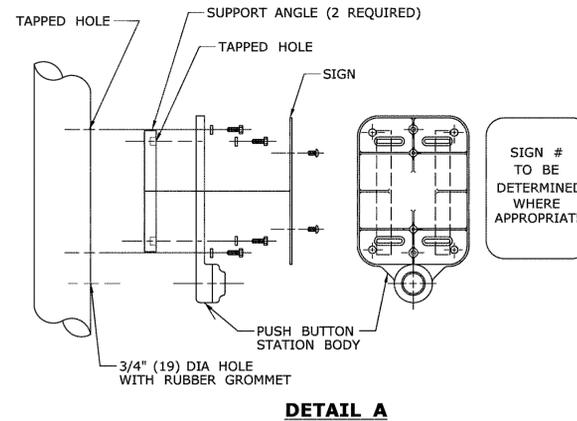
SURFACE MOUNTED



PEDESTAL MOUNTED



SPAN POLE/MAST ARM MOUNTED



DETAIL A



SIGN # 31-0833
USE APPROPRIATE LEFT OR RIGHT ARROW

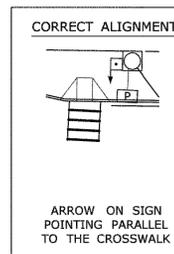


SIGN # 31-0835

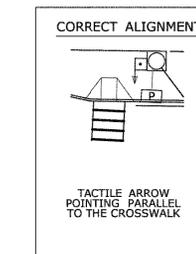
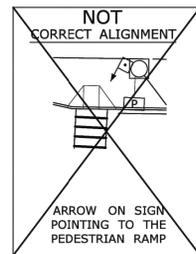
FOR CROSSING WITH SIDE STREET GREEN

GENERAL NOTES:

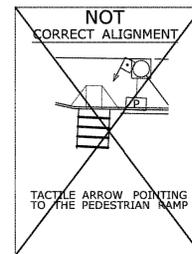
3'-6" (1050) FROM FINISHED GRADE SUCH AS SIDEWALK TO CENTER OF PUSH BUTTON.
 PUSH BUTTON INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN, CURRENT EDITION GOVERNS.
 4'-4" (1300) PEDESTAL TO INCLUDE ALLOY CAP SECURED WITH STAINLESS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



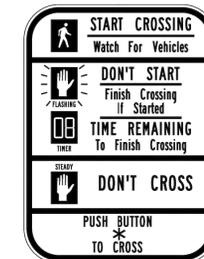
PEDESTRIAN PUSH BUTTON ALIGNMENT



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.

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

SUBMITTED BY: Tracy L. Fogarty, P.E.
 NAME/DATE/TIME: Tracy L. Fogarty, P.E. 2018.08.16 12:13:35-04'00'

APPROVED BY: Mark F. Carlino, P.E.
 NAME/DATE/TIME: Mark F. Carlino, P.E. 2018.08.21 07:46:57-04'00'

CTDOT
 STANDARD SHEET
 OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
PEDESTRIAN PUSH BUTTONS

STANDARD SHEET NO.:
TR-1107_01



No.	Revision/Issue	Date
3	CTDOT Comments	1/26
2	CTDOT Comments	12/25
1	CTDOT Comments	11/25



CITY OF NEW HAVEN
 DEPARTMENT OF ENGINEERING

THE HONORABLE JUSTIN M. ELICKER, MAYOR
 GIOVANNI ZINN, P.E., CITY ENGINEER

TOWNSEND AVE
 (ROUTE 337)
 PEDESTRIAN IMPROVEMENTS

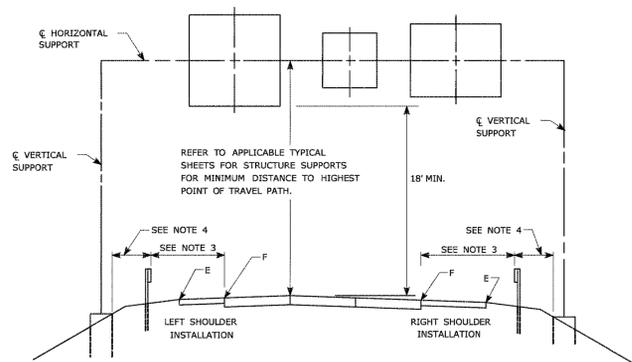
Drawn By:	A. WEBER
Designed By:	A. WEBER
Date:	1/8/2026
Project Number:	25-107-01

Professional Seal

Sheet Title: DETAILS

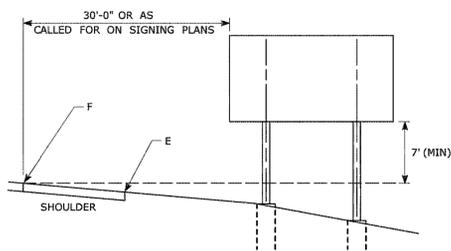
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C:\USERS\AWEBER\CITY OF NEW HAVEN, CT\ENGINEERING DEPARTMENT - PROJECTS\25-107-01 TOWNSEND AVE PED IMPROVEMENTS\DRAWINGS\SHEET\TOWNSEND SIDEWALK PHASE 1.DWG



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 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.

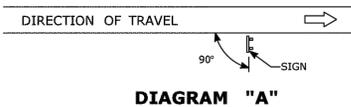


DIAGRAM "A"

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.

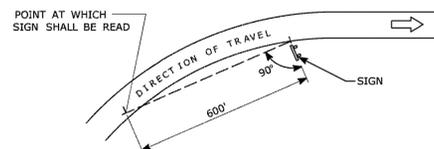
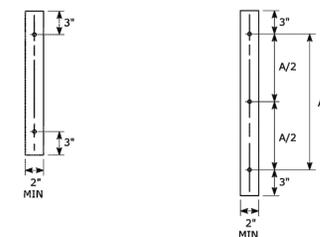


DIAGRAM "B"

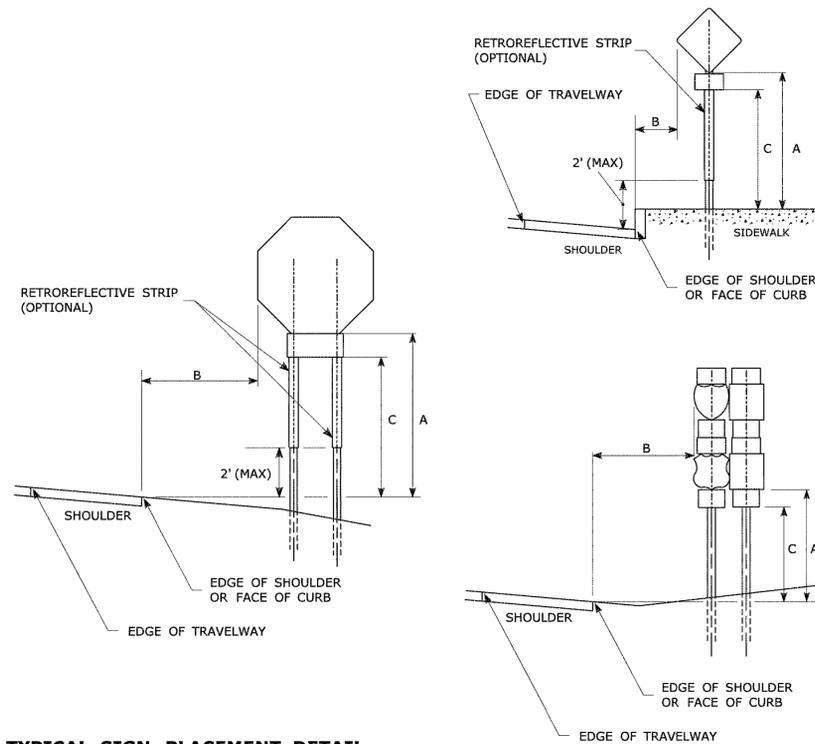
SIGN ORIENTATION DETAILS FOR SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

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 RETROREFLECTIVE 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' ③	5'	SIGNS ON FREEWAYS AND EXPRESSWAYS EXCEPT CHEVRON ALIGNMENT SIGNS, ONE-DIRECTION LARGE ARROW SIGNS, DO NOT ENTER SIGNS, AND WRONG WAY SIGNS
5'	2'	4'	• SIGNS IN RURAL AREAS • DO NOT ENTER AND WRONG WAY SIGNS ALONG EXIT RAMP • DO NOT ENTER AND WRONG WAY SIGNS ON LIMITED ACCESS HIGHWAYS
5'	2'	N/A	• CHEVRON ALIGNMENT SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMP, AND IN RURAL AREAS • ONE-DIRECTION LARGE ARROW SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMP, AND IN RURAL AREAS
4'	6' 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.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Submitted By: *Mark F. Makuch*
Name/Date/Time: Mark F. Makuch, P.E. 2018.08.17 09:06:06-04'00'

Approved By: *Mark F. Carliano*
Name/Date/Time: Mark F. Carliano, P.E. 2018.08.21 07:48:06-04'00'

Filename: TR_1208_01.1.2018.dgn Model: TR-1208_01

CTDOT STANDARD SHEET
OFFICE OF ENGINEERING

SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS

STANDARD SHEET NO.: TR-1208_01



No.	Revision/Issue	Date
3	CTDOT Comments	1/26
2	CTDOT Comments	12/25
1	CTDOT Comments	11/25



CITY OF NEW HAVEN
DEPARTMENT OF ENGINEERING

THE HONORABLE JUSTIN M. ELICKER, MAYOR
GIOVANNI ZINN, P.E., CITY ENGINEER



TOWNSEND AVE (ROUTE 337)
PEDESTRIAN IMPROVEMENTS

Drawn By: A. WEBER
Designed By: A. WEBER
Date: 1/8/2026
Project Number: 25-107-01

Professional Seal

Sheet Title: DETAILS
Sheet Number:

D-5

C:\USERS\WEBER\CITY OF NEW HAVEN, CT\ENGINEERING DEPARTMENT - PROJECTS\25-107-01 TOWNSEND AVE PED IMPROVEMENTS\DRAWINGS\SHEET\TOWNSEND SIDEWALK PHASE 1.DWG



No.	Revision/Issue	Date
3	CTDOT Comments	1/26
2	CTDOT Comments	12/25
1	CTDOT Comments	11/25



CITY OF NEW HAVEN
DEPARTMENT OF ENGINEERING

THE HONORABLE JUSTIN M. ELICKER, MAYOR
GIOVANNI ZINN, P.E., CITY ENGINEER

Project Name and Address
TOWNSEND AVE
(ROUTE 337)
PEDESTRIAN
IMPROVEMENTS

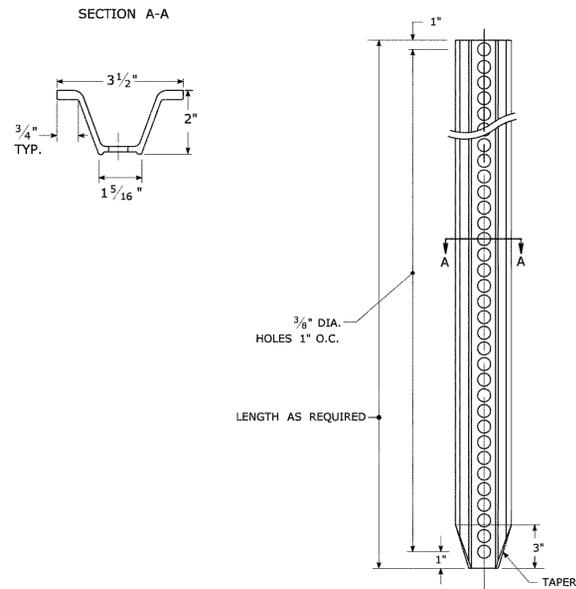
Drawn By: A. WEBER
Designed By: A. WEBER
Date: 1/8/2026
Project Number: 25-107-01

Professional Seal

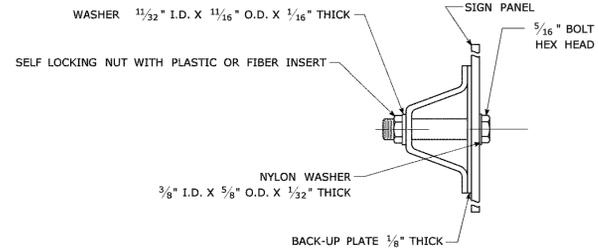
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Sheet Number:

D-6

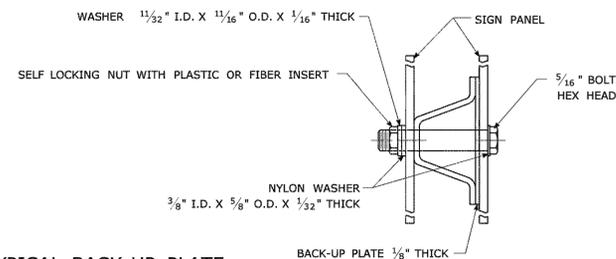
TYPICAL METAL SIGN POSTS



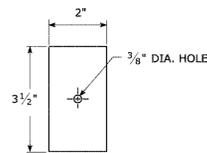
TYPICAL SIGN PANEL ATTACHMENT



TYPICAL BACK TO BACK SIGN PANEL ATTACHMENT

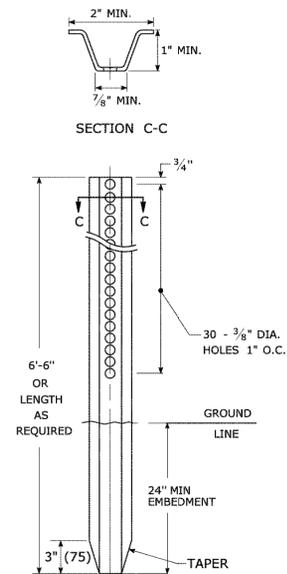


TYPICAL BACK-UP PLATE



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

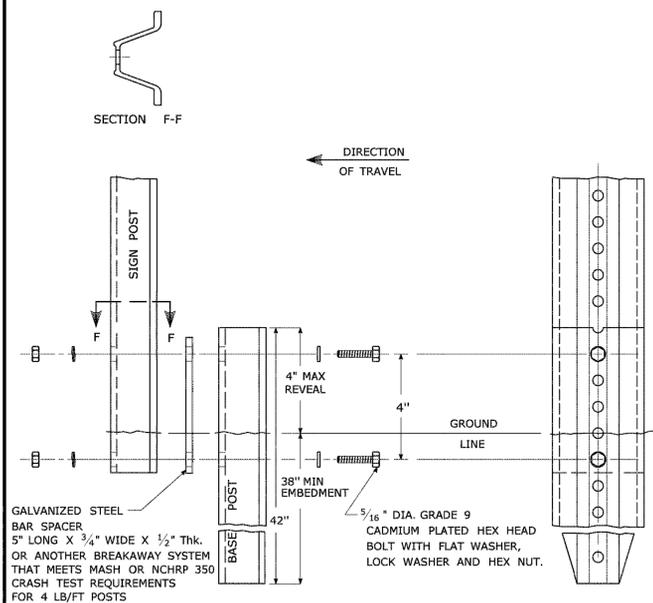
METAL DELINEATOR POST
WT./FT. = 1.12 LBS./FT. MIN.



GENERAL NOTES:

- 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.
- AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123.
- WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
- SPACER BAR FOR BREAKAWAY INSTALLATION SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A36.
- ALL BOLTS, NUTS, AND WASHERS FOR BREAKAWAY INSTALLATIONS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153.
- 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.
- SIGN POSTS SHALL BE 4 LBS./FT.

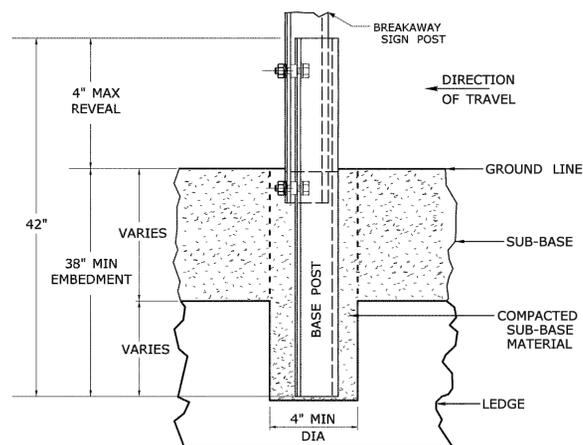
BREAKAWAY INSTALLATION
FOR 4 LBS./FT. POSTS



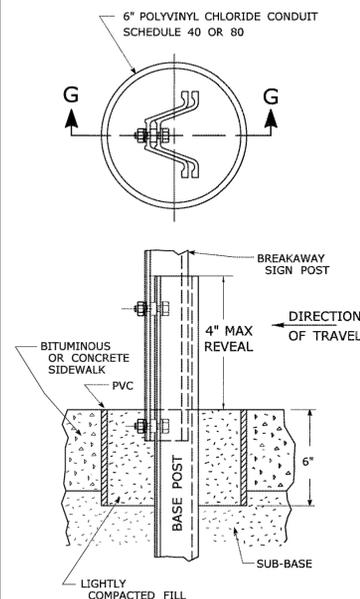
GALVANIZED STEEL BAR SPACER 5" LONG X 3/4" WIDE X 1/2" THK. OR ANOTHER BREAKAWAY SYSTEM THAT MEETS MASH OR NCHRP 350 CRASH TEST REQUIREMENTS FOR 4 LB/FT POSTS

TYPICAL SIGN POST INSTALLATION IN LEDGE

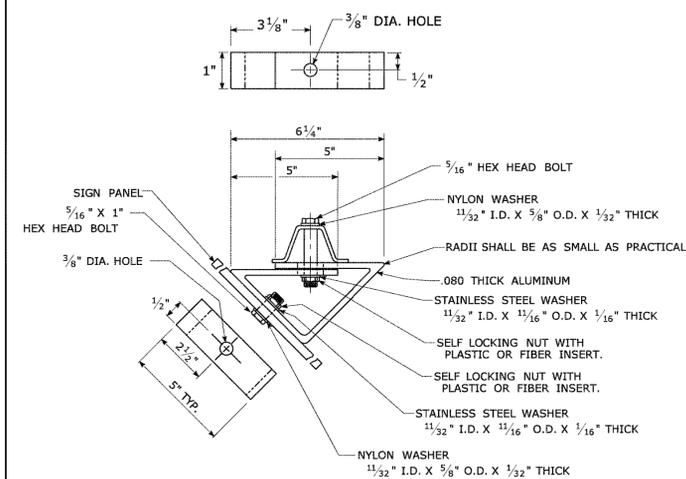
LEDGE SHALL BE REMOVED TO DRIVE THE BASE POST TO A DEPTH OF 38". HOLE SHALL BE FILLED WITH SUB-BASE MATERIAL AND COMPACTED WITH A TAMPING BAR, OR TECHNIQUE APPROVED BY THE ENGINEER, PRIOR TO BASE POST INSTALLATION.



TYPICAL SLEEVE FOR PAVED AREAS



45° MOUNTING BRACKET FOR INSTALLATION OF PARKING SIGNS

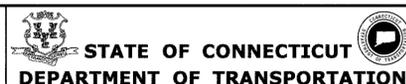


REV.	DATE	REVISION DESCRIPTION
2	6-2017	SIGN POST REVISIONS.
1	2-2011	MINOR REVISIONS.

Plotted Date: 6/6/2017

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.

NOT TO SCALE



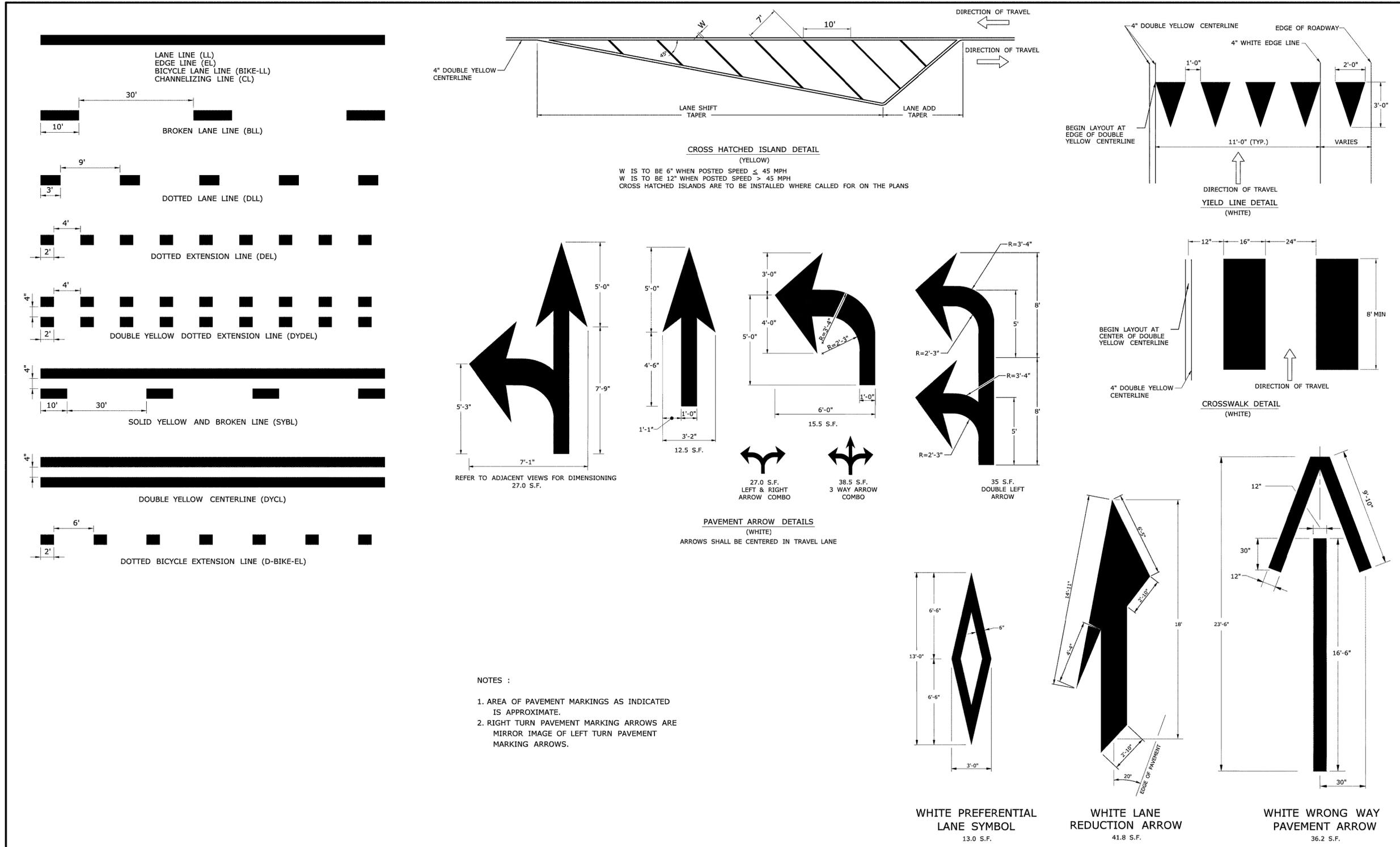
Filename: TR-1208_02.May.2017.Revision.dgn Model: TR-1208_02

SUBMITTED BY: Mark F. Makuch, P.E. 2017.06.07 07:30:30-04'00'
APPROVED BY: 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

C:\USERS\AWEBER\CITY OF NEW HAVEN, CT\ENGINEERING DEPARTMENT - PROJECTS\25-107-01 TOWNSEND AVE PED IMPROVEMENTS\DRAWINGS\SHEET\TOWNSEND SIDEWALK PHASE 1.DWG



- 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.

REV.	DATE	REVISION DESCRIPTION
1	8-2018	REMOVED ROUNDABOUT MARKINGS.

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_04.dgn Model: CT_Civil_2D_Sheet

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E.
2018.08.17 09:07:44-04'00'

APPROVED BY: NAME/DATE/TIME:
Mark F. Carino, P.E.
2018.08.21 07:48:45-04'00'

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
PAVEMENT MARKING LINES AND SYMBOLS

STANDARD SHEET NO.:
TR-1210_04



No.	Revision/Issue	Date
3	CTDOT Comments	1/26
2	CTDOT Comments	12/25
1	CTDOT Comments	11/25



CITY OF NEW HAVEN
DEPARTMENT OF ENGINEERING

THE HONORABLE JUSTIN M. ELICKER, MAYOR
GIOVANNI ZINN, P.E., CITY ENGINEER

Project Name and Address:
**TOWNSEND AVE (ROUTE 337)
PEDESTRIAN IMPROVEMENTS**

Drawn By:	A. WEBER
Designed By:	A. WEBER
Date:	1/8/2026
Project Number:	25-107-01

Professional Seal

Sheet Title: DETAILS
Sheet Number: D-7

C:\USERS\AWEBER\CITY OF NEW HAVEN, CT\ENGINEERING DEPARTMENT - PROJECTS\25-107-01 TOWNSEND AVE PED IMPROVEMENTS\DRAWINGS\SHEET\TOWNSEND SIDEWALK PHASE 1.DWG



No.	Revision/Issue	Date
3	CTDOT Comments	1/26
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1	CTDOT Comments	11/25



CITY OF NEW HAVEN
DEPARTMENT OF ENGINEERING

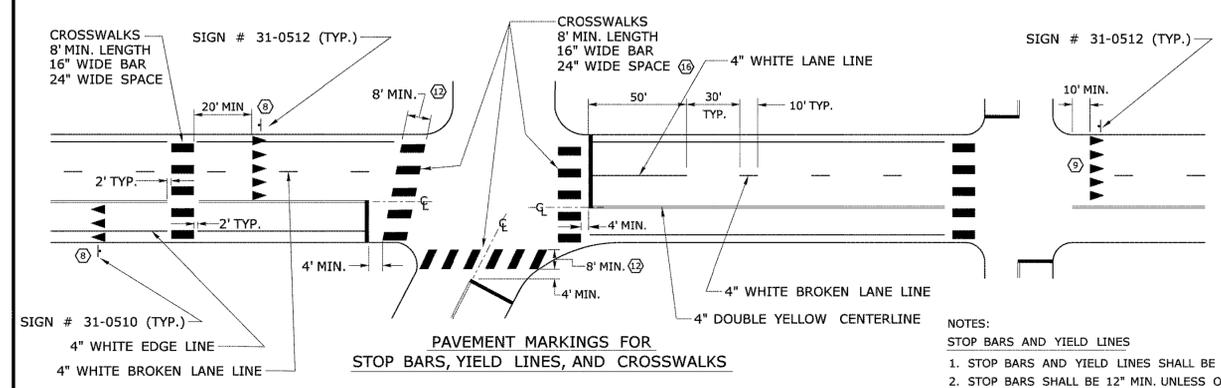
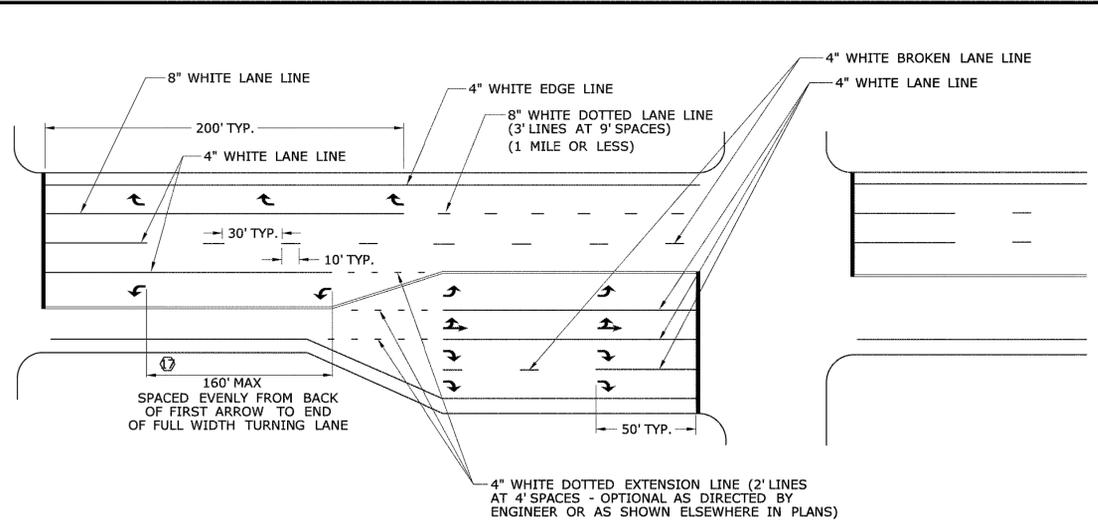
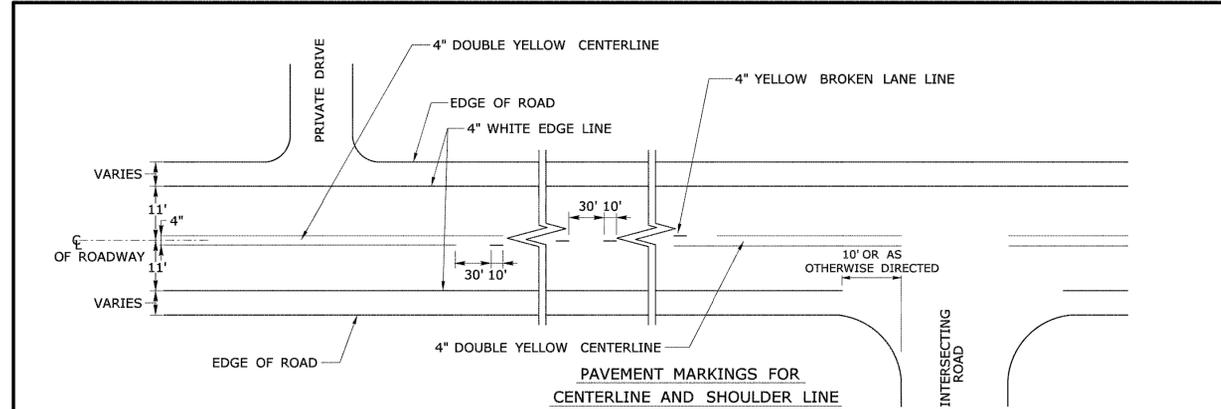
THE HONORABLE JUSTIN M. ELICKER, MAYOR
GIOVANNI ZINN, P.E., CITY ENGINEER

Project Name and Address
**TOWNSEND AVE
(ROUTE 337)
PEDESTRIAN
IMPROVEMENTS**

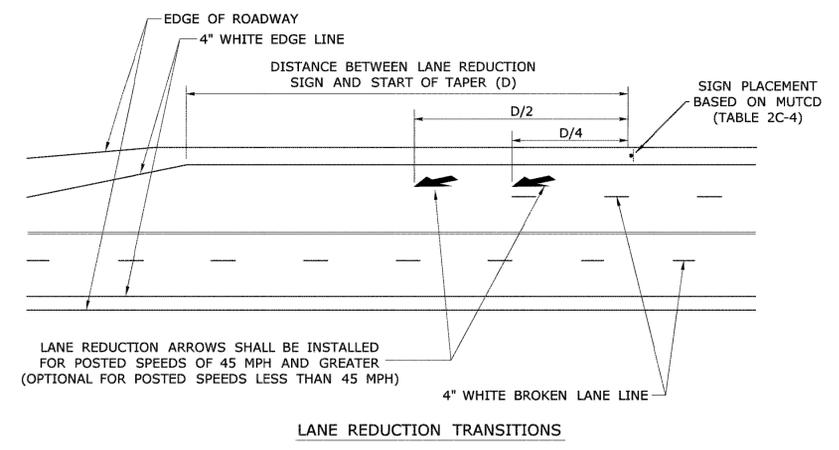
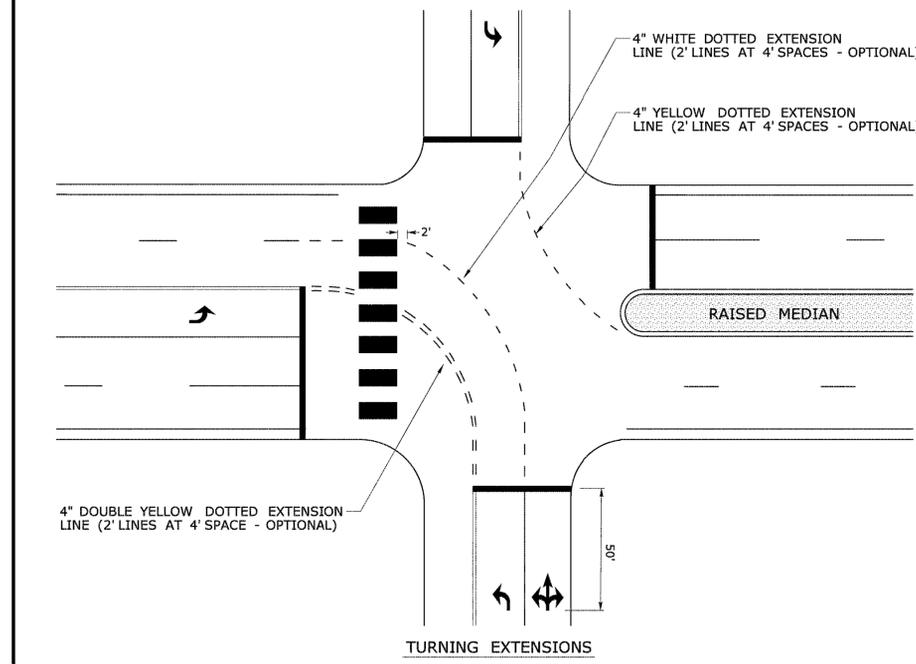
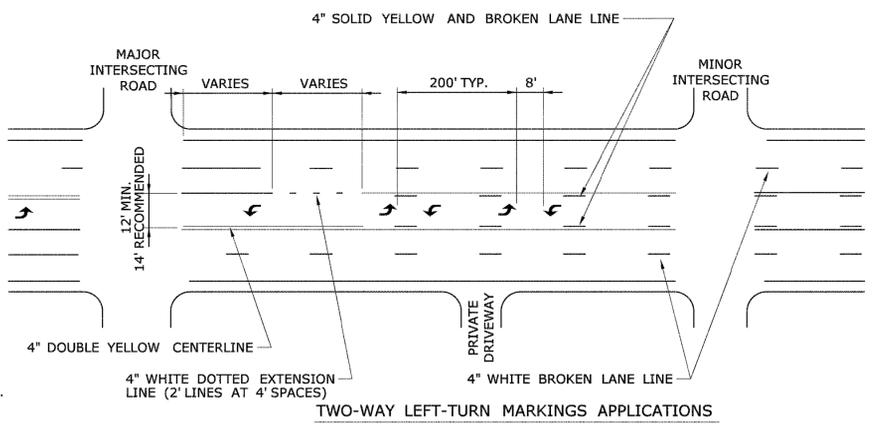
Drawn By: A. WEBER
Designed By: A. WEBER
Date: 1/8/2026
Project Number: 25-107-01

Professional Seal

Sheet Title: DETAILS
Sheet Number: D-8



- NOTES:
STOP BARS AND YIELD LINES
- STOP BARS AND YIELD LINES SHALL BE WHITE.
 - STOP BARS SHALL BE 12" MIN. UNLESS OTHERWISE NOTED ON PLANS.
 - 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.
 - 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.
 - 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.
 - FOR STOP BARS AT RAMP SEE DETAILS "R", "S", "T", & "U" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210 07 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS EXIT RAMP".
 - FOR YIELD LINE INSTALLATIONS, ONLY FULL TRIANGLES ARE TO BE INSTALLED.
 - 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 APPROPRIATE "YIELD TO PEDESTRIANS" SIGN IS REQUIRED.
 - FOR CROSSWALKS AT UNSIGNALIZED INTERSECTIONS WITH MINOR STREET STOP CONTROL, YIELD LINES SHALL BE INSTALLED ON MULTI-LANE APPROACHES, BUT NOT SINGLE LANE APPROACHES.
 - 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
- CROSSWALK MARKINGS SHALL BE WHITE.
 - AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO ϵ AND ENDS OF BARS TO BE PARALLEL TO THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW.
 - BARS SHOULD BE NO CLOSER THAN 1" FROM EDGE OF ROAD.
 - ONLY FULL LENGTH BARS TO BE INSTALLED.
 - DECORATIVE CROSSWALKS SHALL BE BANDED FROM CURB TO CURB WITH A MINIMUM 12" WIDE WHITE TRANSVERSE LINE ALONG EACH EDGE.
 - 24" WIDE SPACE TO BE CENTERED ON YELLOW CENTERLINE.
- PAVEMENT MARKINGS FOR TURNING LANES
- INSTALL AT LEAST TWO ARROWS PER LANE WHERE STORAGE LENGTH IS GREATER THAN 150 FEET.



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.

NOT TO SCALE

Plotted Date: 8/10/2018

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Submitted By: Mark F. Makuch, P.E.
2018.08.17 09:10:18-04'00'

Approved By: Mark F. Carliano, P.E.
2018.08.21 07:49:18-04'00'

Filename: TR-1210_08.DGN Model: TR-1210_05

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
**PAVEMENT MARKINGS
FOR NON FREEWAYS**

STANDARD SHEET NO.:
TR-1210_08



No.	Revision/Issue	Date
3	CTDOT Comments	1/26
2	CTDOT Comments	12/25
1	CTDOT Comments	11/25



CITY OF NEW HAVEN
DEPARTMENT OF ENGINEERING

THE HONORABLE JUSTIN M. ELICKER, MAYOR
GIOVANNI ZINN, P.E., CITY ENGINEER



Project Name and Address
**TOWNSEND AVE
(ROUTE 337)
PEDESTRIAN
IMPROVEMENTS**

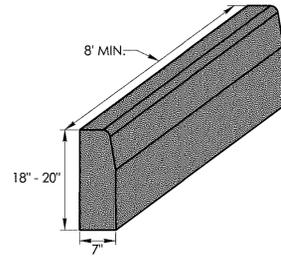
Drawn By: **A. WEBER**
Designed By: **A. WEBER**
Date: **1/8/2026**
Project Number: **25-107-01**

Professional Seal

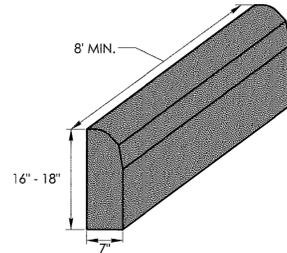
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Sheet Number: **D-9**

S - SERIES	W1 - SERIES		W2 - SERIES	W3 - SERIES	W4 - SERIES		W5 - SERIES	W6 - SERIES		W7 - SERIES	W8 - SERIES																																																																																																																																																																																																																							
<p>S1-1</p> <p>LEGEND - BLACK BACKGROUND - FLUORESCENT YELLOW GREEN</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr> <tr><td>6.75</td><td>36</td><td>41-2112</td><td>1</td><td>.080</td></tr> <tr><td>12.00</td><td>48</td><td>41-2113</td><td>2</td><td>.100</td></tr> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.75	36	41-2112	1	.080	12.00	48	41-2113	2	.100	<p>W1-1L</p> <p>W1-1R</p> <p>W1-6</p> <p>LEGEND - BLACK BACKGROUND - FLUORESCENT YELLOW (LEFT OR RIGHT)</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr> <tr><td>6.25</td><td>30</td><td>41-4006</td><td>1</td><td>.080</td></tr> <tr><td>9.00</td><td>36</td><td>41-4031</td><td>1</td><td>.080</td></tr> <tr><td>6.25</td><td>30</td><td>41-4005</td><td>1</td><td>.080</td></tr> <tr><td>9.00</td><td>36</td><td>41-4160</td><td>1</td><td>.080</td></tr> <tr><td>8.00</td><td>48X24</td><td>41-4223</td><td>2</td><td>.100</td></tr> <tr><td>12.50</td><td>60X30</td><td>41-4262</td><td>2</td><td>.100</td></tr> <tr><td>6.25</td><td>30</td><td>41-4226</td><td>1</td><td>.080</td></tr> <tr><td>9.00</td><td>36</td><td>41-4236</td><td>1</td><td>.080</td></tr> </table>		AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30	41-4006	1	.080	9.00	36	41-4031	1	.080	6.25	30	41-4005	1	.080	9.00	36	41-4160	1	.080	8.00	48X24	41-4223	2	.100	12.50	60X30	41-4262	2	.100	6.25	30	41-4226	1	.080	9.00	36	41-4236	1	.080	<p>W2-1</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. 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THK.	6.25	30	41-0501	1	.080	9.00	36	41-4448	1	.080	16.00	48	41-0503	2	.100	16.00	48	41-4452	2	.100	16.00	48	41-4459	2	.100	<p>W4-1</p> <p>W4-1</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr> <tr><td>9.00</td><td>36</td><td>41-4448</td><td>1</td><td>.080</td></tr> <tr><td>9.00</td><td>36</td><td>41-4449</td><td>1</td><td>.080</td></tr> <tr><td>16.00</td><td>48</td><td>41-4452</td><td>2</td><td>.100</td></tr> <tr><td>16.00</td><td>48</td><td>41-4459</td><td>2</td><td>.100</td></tr> </table>		AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	9.00	36	41-4448	1	.080	9.00	36	41-4449	1	.080	16.00	48	41-4452	2	.100	16.00	48	41-4459	2	.100	<p>W5-1</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr> <tr><td>9.00</td><td>36</td><td>41-4402</td><td>1</td><td>.080</td></tr> <tr><td>16.00</td><td>48</td><td>41-4404</td><td>2</td><td>.100</td></tr> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	9.00	36	41-4402	1	.080	16.00	48	41-4404	2	.100	<p>W6-1</p> <p>W6-2</p> <p>W6-3</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr> <tr><td>9.00</td><td>36</td><td>41-4335</td><td>1</td><td>.080</td></tr> <tr><td>16.00</td><td>48</td><td>41-4330</td><td>2</td><td>.100</td></tr> <tr><td>9.00</td><td>36</td><td>41-4329</td><td>1</td><td>.080</td></tr> <tr><td>16.00</td><td>48</td><td>41-4331</td><td>2</td><td>.100</td></tr> </table>		AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	9.00	36	41-4335	1	.080	16.00	48	41-4330	2	.100	9.00	36	41-4329	1	.080	16.00	48	41-4331	2	.100	<p>W7-1</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr> <tr><td>6.25</td><td>30</td><td>41-4506</td><td>1</td><td>.080</td></tr> <tr><td>9.00</td><td>36</td><td>41-4530</td><td>1</td><td>.080</td></tr> <tr><td>16.00</td><td>48</td><td>41-4508</td><td>2</td><td>.100</td></tr> <tr><td>16.00</td><td>48</td><td>41-4521</td><td>2</td><td>.100</td></tr> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30	41-4506	1	.080	9.00	36	41-4530	1	.080	16.00	48	41-4508	2	.100	16.00	48	41-4521	2	.100	<p>W8-5</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr> <tr><td>6.25</td><td>30</td><td>41-4519</td><td>1</td><td>.080</td></tr> <tr><td>9.00</td><td>36</td><td>41-4520</td><td>1</td><td>.080</td></tr> <tr><td>16.00</td><td>48</td><td>41-4521</td><td>2</td><td>.100</td></tr> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30	41-4519	1	.080	9.00	36	41-4520	1	.080	16.00	48	41-4521	2	.100
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.																																																																																																																																																																																																																														
6.75	36	41-2112	1	.080																																																																																																																																																																																																																														
12.00	48	41-2113	2	.100																																																																																																																																																																																																																														
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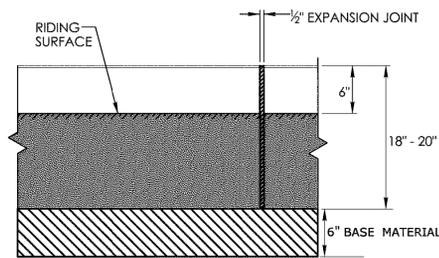
CONCRETE CURBING (6" REVEAL)



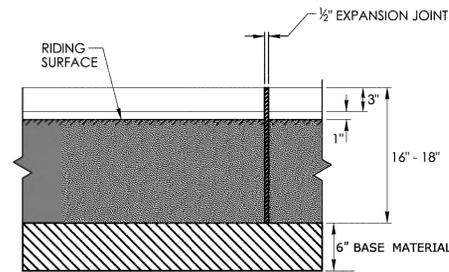
CONCRETE PARK CURBING (4" REVEAL)

GENERAL NOTE:

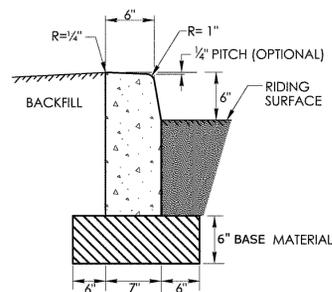
1. PRECAST CONCRETE CURBING MAY BE CAST BY THE MANUFACTURER WITH OPTIONAL LIFTING AND DOWEL BAR HOLES.



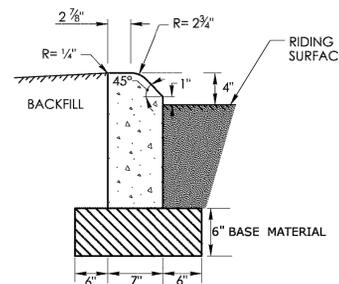
FRONT ELEVATION



FRONT ELEVATION



SECTION



SECTION



No.	Revision/Issue	Date
3	CTDOT Comments	1/26
2	CTDOT Comments	12/25
1	CTDOT Comments	11/25



CITY OF NEW HAVEN
DEPARTMENT OF ENGINEERING

THE HONORABLE JUSTIN M. ELICKER, MAYOR
GIOVANNI ZINN, P.E., CITY ENGINEER



Project Name and Address
TOWNSEND AVE
(ROUTE 337)
PEDESTRIAN
IMPROVEMENTS

Drawn By	A. WEBER
Designed By	A. WEBER
Date	1/8/2026
Project Number	25-107-01

Professional Seal

Sheet Title
DETAILS

Sheet Number
D-10

NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: <i>[Signature]</i> Digitally signed by Leo Fontaine, P.E. Date: 2024.12.16 14:00:51-05'00'	APPROVED BY: <i>[Signature]</i> Digitally signed by Michael N. Calabrese, P.E. Date: 2025.01.21 13:13:35-05'00'	CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CONCRETE CURBING	STANDARD SHEET NO.: HW-811_01
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PLOTTED DATE: 10/22/2024

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A. WEBER

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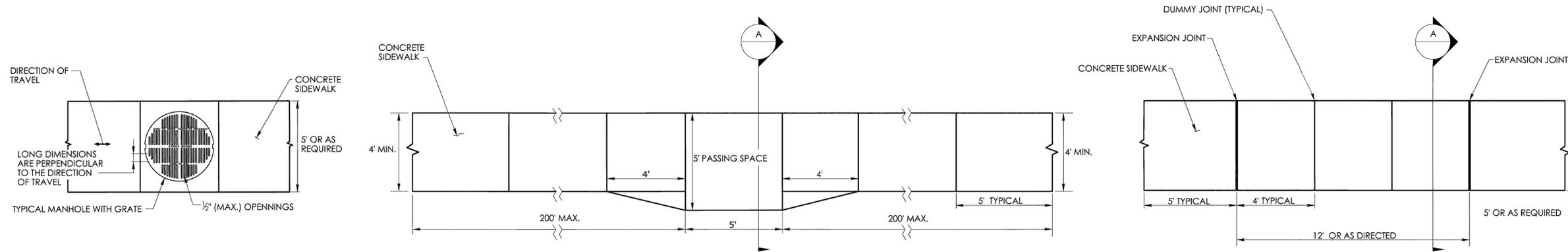
Professional Seal

Sheet Title
DETAILS

Sheet Number

D-11

- GENERAL NOTES:**
- SEE CONCRETE SIDEWALK RAMPS GUIDE SHEETS FOR PEDESTRIAN RAMP TYPES.
 - ALL CURBING SHALL BE INSTALLED AS EITHER PRECAST OR CAST IN PLACE AS DIRECTED.



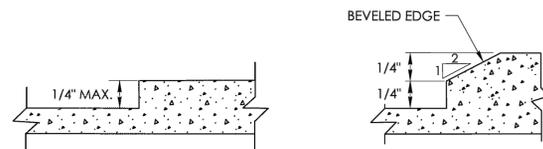
PEDESTRIAN ACCESS ROUTE OVER A MANHOLE WITH GRATE

- HORIZONTAL OPENINGS IN GRATES AND JOINTS MUST NOT BE MORE THAN 1/2" INCH
- ELONGATED OPENINGS IN GRATES MUST BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DIRECTION OF TRAVEL

5' PASSING SPACE FOR 4' WIDE SIDEWALK PLAN

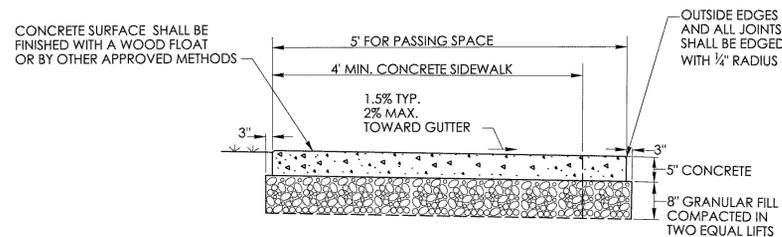
PASSING SPACES SHALL BE PROVIDED AT INTERVALS OF 200' MAXIMUM FOR SIDEWALKS LESS THAN 5' IN WIDTH

5' WIDE SIDEWALK PLAN



VERTICAL SURFACE DISCONTINUITIES

VERTICAL SURFACE DISCONTINUITIES MUST BE BEVELED TO A HEIGHT NOT GREATER THAN 1/4" INCH. THE BEVEL MUST BE THE ENTIRE WIDTH OF THE DISCONTINUITY



5' PASSING SPACE FOR 4' WIDE SIDEWALK

SECTION A

NOT TO SCALE

SIGNATURE BLOCK:
OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

SUBMITTED BY:
Digitally signed by
Lito Fontaine, P.E.
Date: 2022.09.27
16:16:58-04'00'

APPROVED BY:
Digitally signed by
Michael P. Callaway,
Michael
Date: 2022.11.08
09:42:54-05'00'



CTDOT
STANDARD SHEET

STANDARD SHEET TITLE:
CONCRETE SIDEWALKS

STANDARD SHEET NO.:
HW-921_01

C:\USERS\AWEBER\CITY OF NEW HAVEN, CT\ENGINEERING DEPARTMENT - PROJECTS\25-107-01 TOWNSEND AVE PED IMPROVEMENTS\DRAWINGS\SHEET\TOWNSEND SIDEWALK PHASE 1.DWG



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THE HONORABLE JUSTIN M. ELICKER, MAYOR
GIOVANNI ZINN, P.E., CITY ENGINEER

Project Name and Address
**TOWNSEND AVE
(ROUTE 337)
PEDESTRIAN
IMPROVEMENTS**

Drawn By	A. WEBER
Designed By	A. WEBER
Date	1/8/2026
Project Number	25-107-01

Professional Seal

Sheet Title
DETAILS

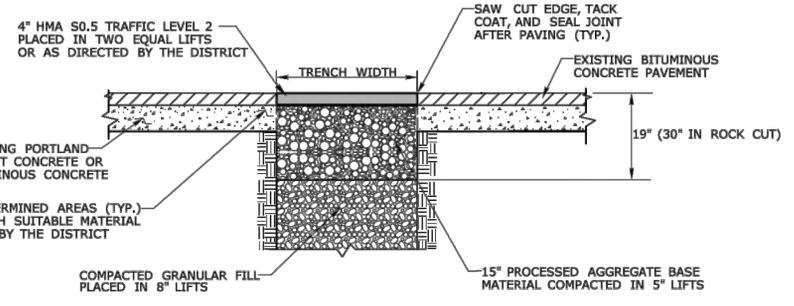
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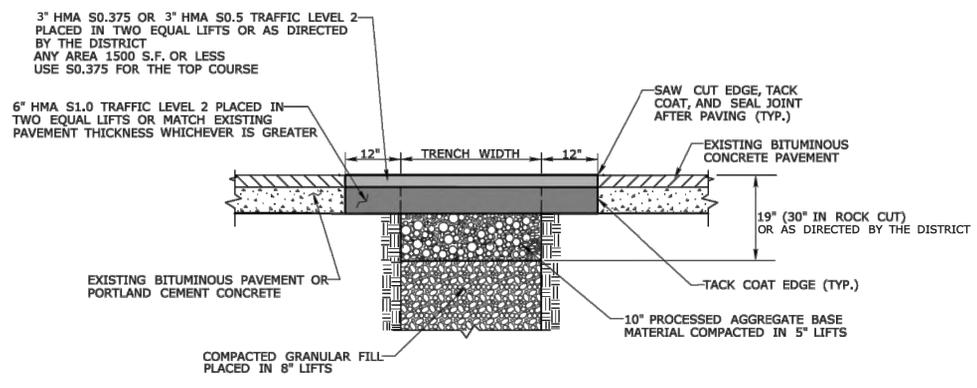
- LONGITUDINAL TRENCHING FOR JOINTED CONCRETE PAVEMENT:
 - IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE SLAB CENTERLINE AND THE EDGE OF SLAB, REMOVE CONCRETE AND BITUMINOUS CONCRETE PAVEMENT FROM THE TRENCH EDGE TO THE EDGE OF ROAD. IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE LONGITUDINAL JOINT AND THE SLAB CENTERLINE, REMOVE THE ENTIRE CONCRETE SLAB AND BITUMINOUS CONCRETE PAVEMENT TO THE EDGE OF ROAD. IN EITHER CASE REBUILD WITH THE FOLLOWING:
 - PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
 - PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"
- TRANSVERSE TRENCHING FOR JOINTED CONCRETE PAVEMENT:

TABLE 1	
TOTAL SLAB LENGTH (L)	MIN. LENGTH REMAINING
40' OR LONGER	1/4 L
15' - 40'	10'
15' OR SHORTER	REBUILD TO NEAREST JOINT

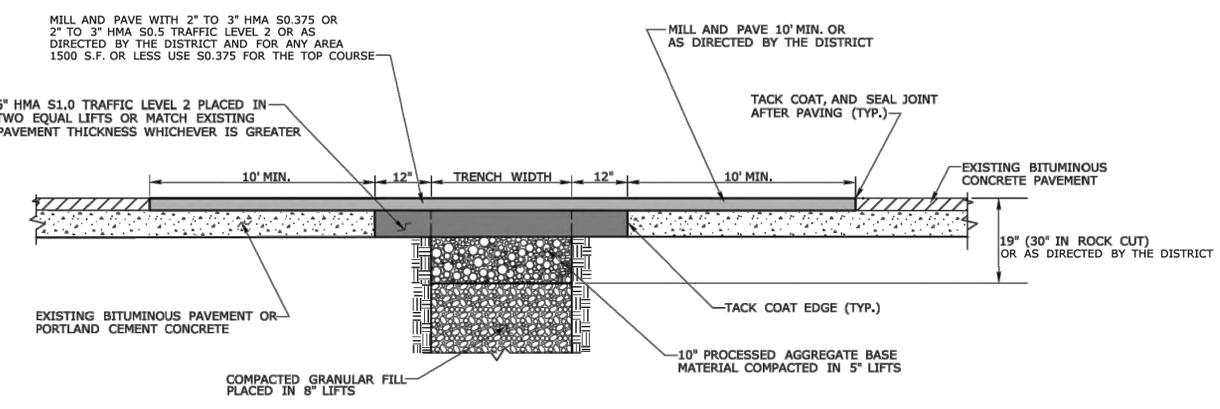
 - FOR TRANSVERSE TRENCHES, THE MINIMUM SLAB LENGTH AS SHOWN IN TABLE 1 SHALL BE LEFT IN PLACE TO THE NEAREST TRANSVERSE JOINT. IF THIS CRITERIA CANNOT BE MET, THE EXISTING SLAB AREA FROM THE TRENCH EDGE TO THE NEAREST TRANSVERSE JOINT SHALL BE REMOVED AND REBUILT AS FOLLOWS:
 - PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
 - PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"



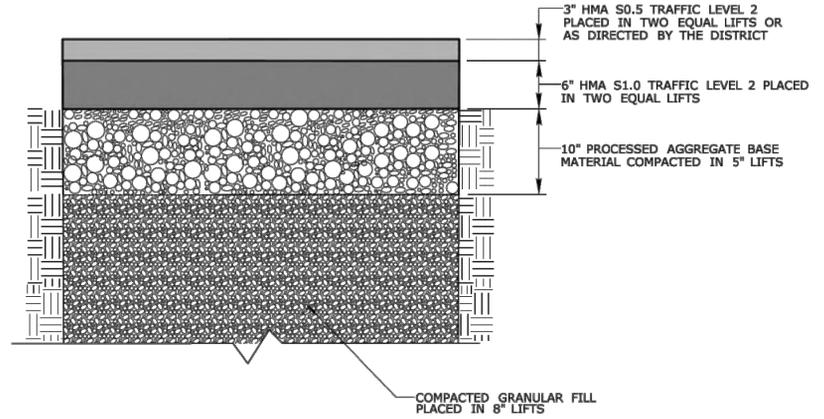
TEMPORARY PAVEMENT REPAIR FOR TRENCH THROUGH OVERLAID PORTLAND CEMENT CONCRETE OR BITUMINOUS CONCRETE PAVEMENT



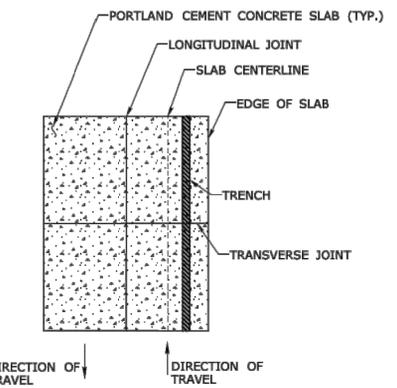
PERMANENT PAVEMENT REPAIR WITHOUT MILLING - THROUGH PORTLAND CEMENT CONCRETE OR BITUMINOUS CONCRETE PAVEMENT



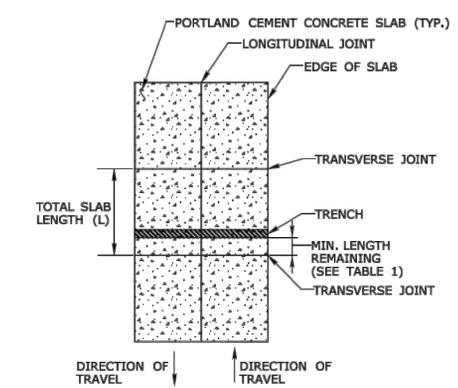
PERMANENT PAVEMENT REPAIR WITH MILLING



ROADWAY PROFILE



LONGITUDINAL TRENCHING FOR JOINTED CONCRETE PAVEMENT (SEE NOTE 1)



TRANSVERSE TRENCHING FOR JOINTED CONCRETE PAVEMENT (SEE NOTE 2)

DRAWN BY:	MS
CHECKED BY:	EL
SCALE:	NO SCALE

HIGHWAY OPERATIONS

**OFFICE OF MAINTENANCE OPERATIONS
SPECIAL SERVICES AND PLANNING**



**STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION**



ENCROACHMENT PERMIT - PAVEMENT REPAIR

C:\USERS\AWEBER\CITY OF NEW HAVEN, CT\ENGINEERING DEPARTMENT - PROJECTS\25-107-01 TOWNSEND AVE PED IMPROVEMENTS\DRAWINGS\SHEET\TOWNSEND SIDEWALK PHASE 1.DWG



No.	Revision/Issue	Date
3	CTDOT Comments	1/26
2	CTDOT Comments	12/25
1	CTDOT Comments	11/25



CITY OF NEW HAVEN
DEPARTMENT OF ENGINEERING

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TOWNSEND AVE
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Designed By: A. WEBER
Date: 1/8/2026
Project Number: 25-107-01

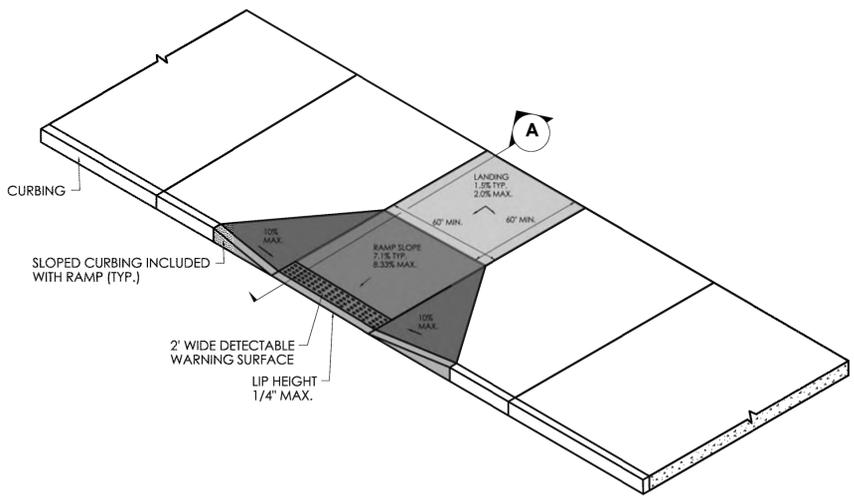
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Sheet Title: DETAILS
Sheet Number

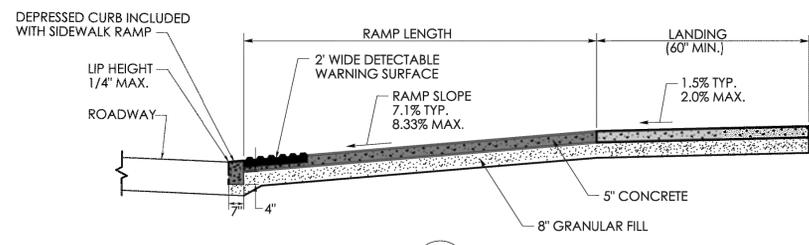
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GENERAL NOTES:

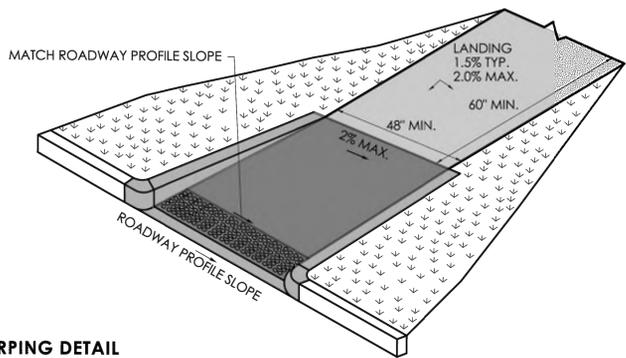
1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4 INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.33 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.



PERPENDICULAR SIDEWALK RAMP AND SECTION

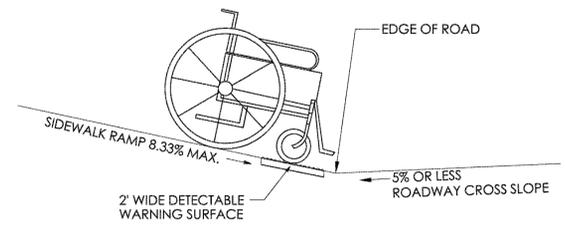


SECTION A

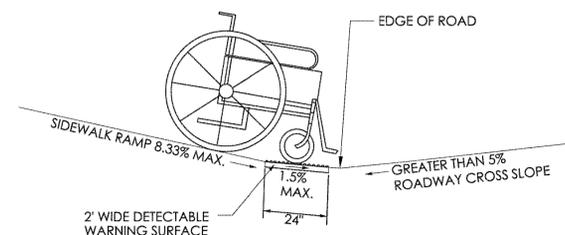


RAMP WARPING DETAIL

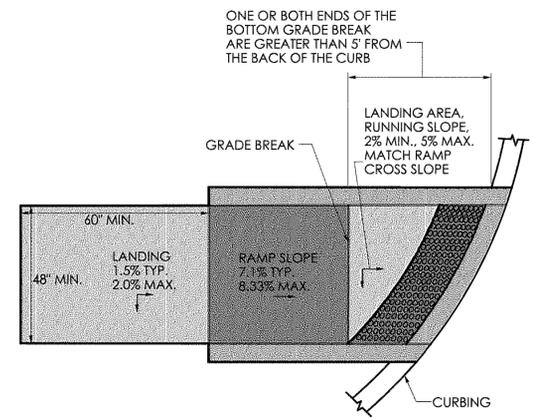
1. TRANSITION SIDEWALK RAMP TO MATCH ROADWAY PROFILE AS GRADUALLY AS POSSIBLE. DO NOT EXCEED 3% PER FOOT CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE.
2. COMPLETE TRANSITION TO ROADWAY PROFILE BEHIND DETECTABLE WARNING SURFACE.



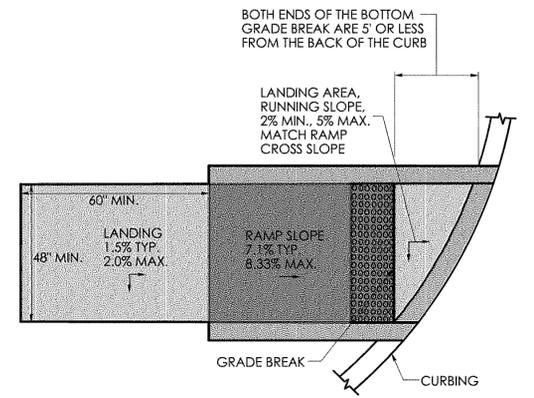
SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF 5% OR LESS GUTTER COUNTER SLOPE



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



GRADE BREAK GREATER THAN 5' DETECTABLE WARNING SURFACE LOCATION



GRADE BREAK OF 5' OR LESS DETECTABLE WARNING SURFACE LOCATION

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: _____ CHECKED BY: _____ SIGNATURE/BLOCK: _____ APPROVED BY: _____

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0000-0000
PROJECT DESCRIPTION: SAMPLE PROJECT DESCRIPTION
TOWN(S): SAMPLE TOWN(S)
DRAWING TITLE: CONCRETE SIDEWALK RAMPS SHEET 1 OF 11

DRAWING NO. _____ SHEET NO. _____

LASTED SAVED BY: RichardEH FILE NAME: W:\CT_CONNECT_DDE\CT_Configuration\Organization\Cell\CTDOT_Borders_Contract.cel
PLOTTED DATE: 11/23/2022

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PEDESTRIAN
IMPROVEMENTS

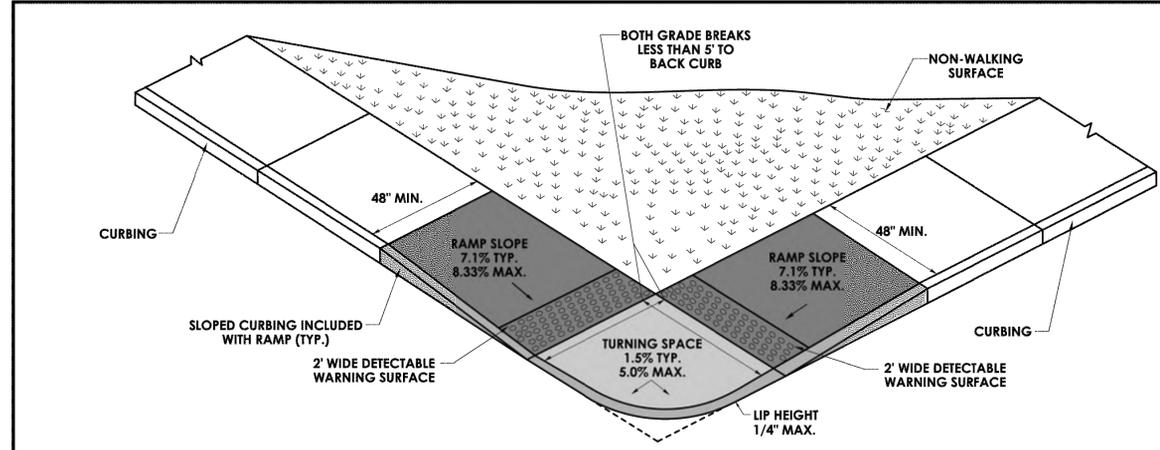
Drawn By	A. WEBER
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Date	1/8/2026
Project Number	25-107-01

Professional Seal

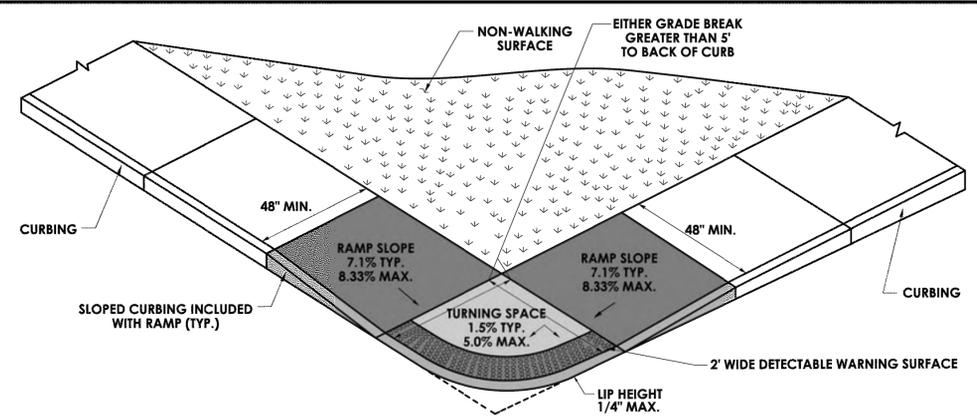
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DETAILS

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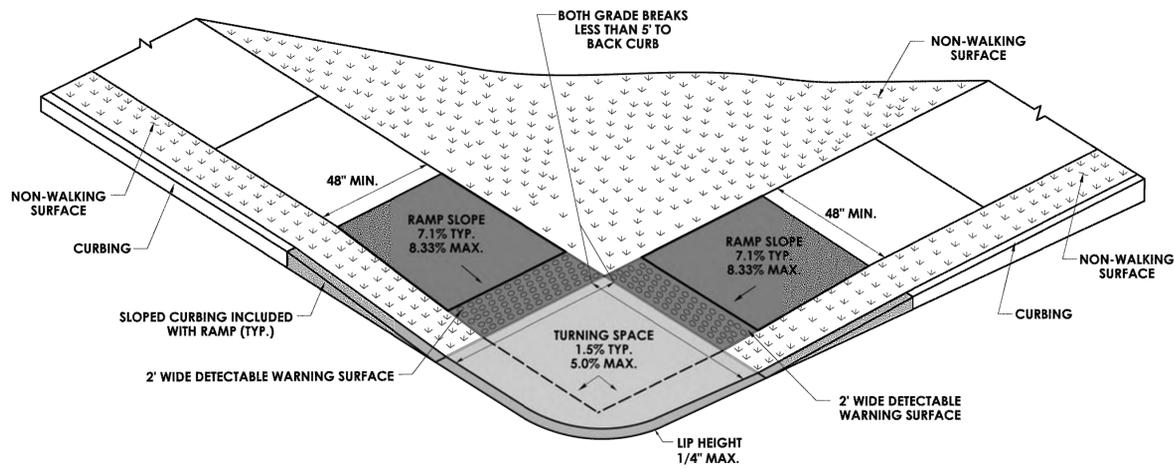
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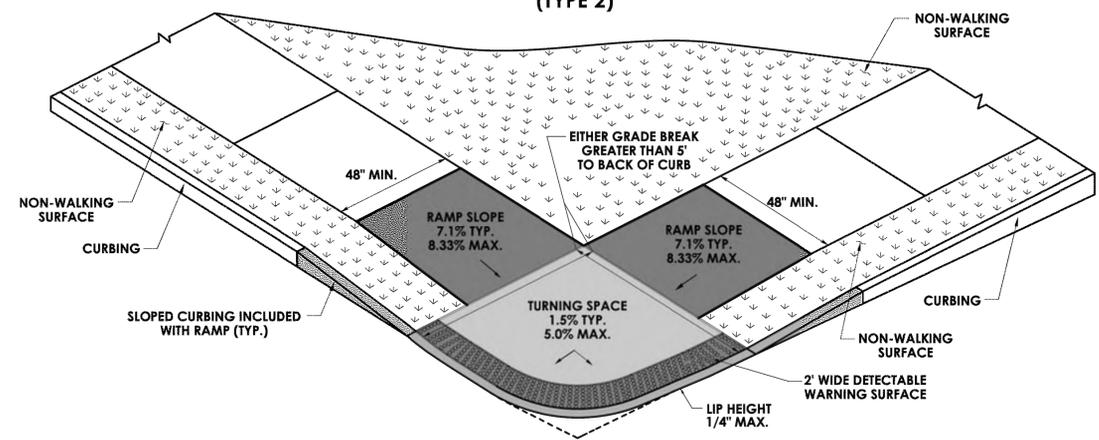
PERPENDICULAR RAMP WITH A GRADE BREAK TO BACK OF CURB OF 5' OR LESS (TYPE 1)



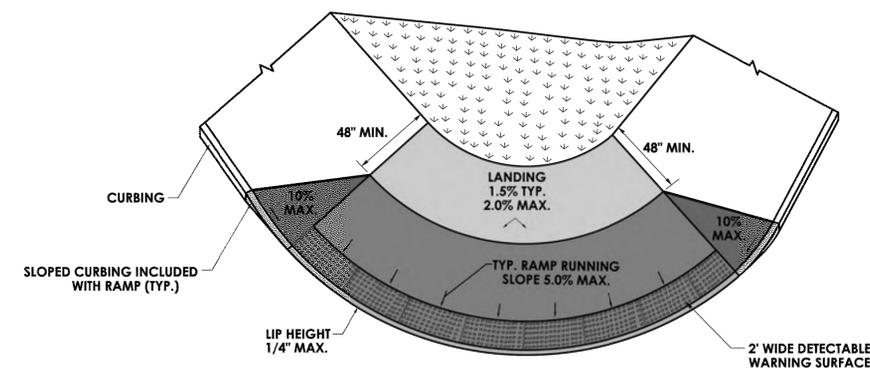
BLENDED TRANSITION WITH GRADE BREAK TO BACK OF CURB GREATER THAN 5' (TYPE 2)



PERPENDICULAR RAMP WITH A GRADE BREAK TO BACK OF CURB OF 5' OR LESS WITH NON-WALKING SURFACE (TYPE 3)



BLENDED TRANSITION WITH A GRADE BREAK TO BACK OF CURB GREATER THAN 5' WITH NON-WALKING SURFACE (TYPE 4)



BLENDED TRANSITION WITH LANDING AT TOP (TYPE 5)

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: _____ CHECKED BY: _____
 SIGNATURE/BLOCK: _____ APPROVED BY: _____
 OFFICE OF ENGINEERING
 2800 BERLIN TURNPIKE
 NEWINGTON, CT 06111



PROJECT NUMBER: 0000-0000
 PROJECT DESCRIPTION: SAMPLE PROJECT DESCRIPTION
 TOWN(S): SAMPLE TOWN(S)
 DRAWING TITLE: CONCRETE SIDEWALK RAMPS SHEET 2 OF 11

DRAWING NO. _____
 SHEET NO. _____

LASTED SAVED BY: RichardH FILE NAME: W:\CT_CONNECT_DDP\CT_Configuration\Organization\Cell\CTDOT_Borders_Contract.ctb
 PLOTTED DATE: 11/23/2022

C:\USERS\AWEBER\CITY OF NEW HAVEN, CT\ENGINEERING DEPARTMENT - PROJECTS\25-107-01 TOWNSEND AVE PED IMPROVEMENTS\DRAWINGS\SHEET\TOWNSEND SIDEWALK PHASE 1.DWG



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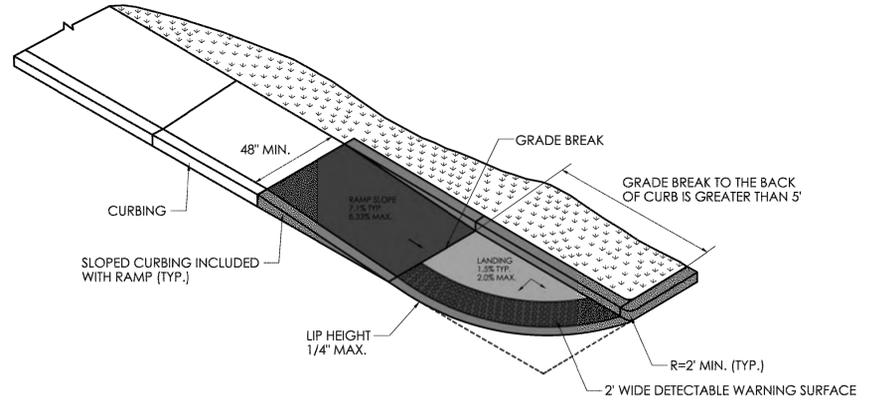
Project Name and Address
TOWNSEND AVE
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PEDESTRIAN
IMPROVEMENTS

Drawn By: A. WEBER
Designed By: A. WEBER
Date: 1/8/2026
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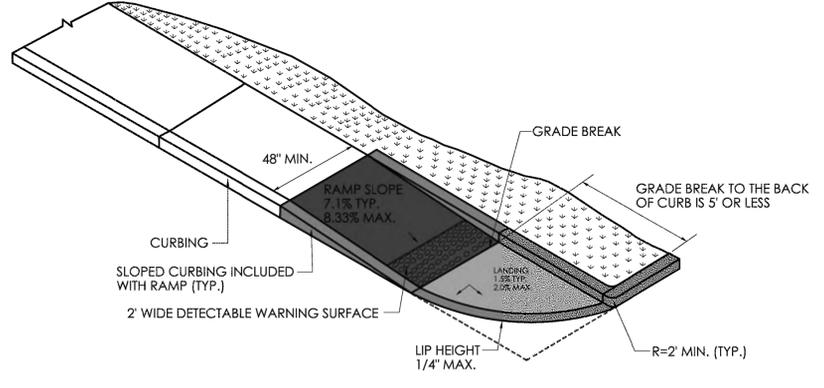
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Sheet Number:

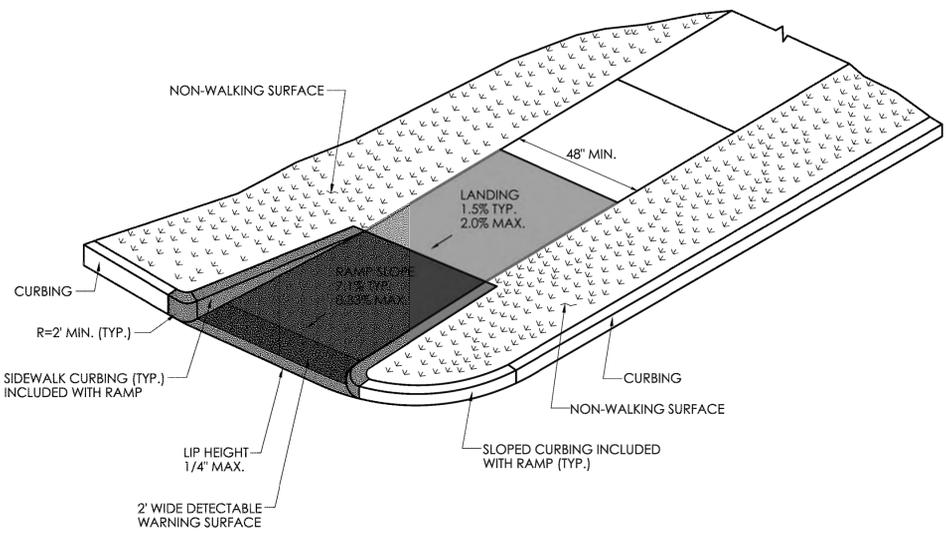
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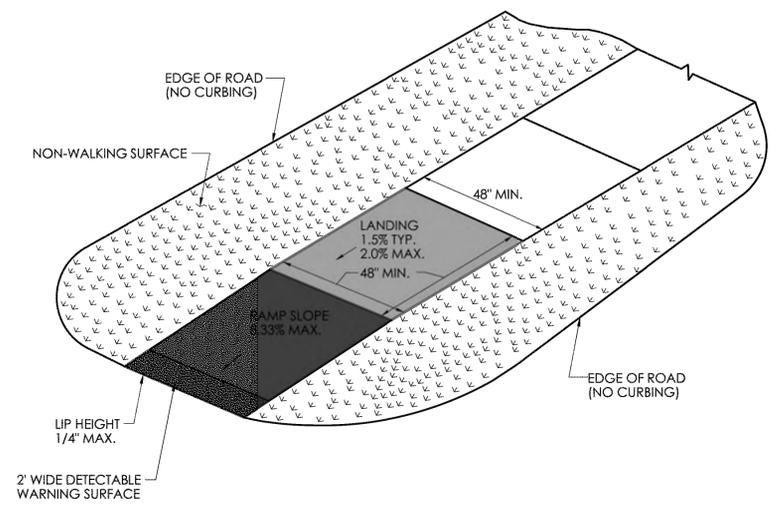
**SINGLE DIRECTION RAMP
WITHOUT NON-WALKING SURFACE
GRADE BREAK GREATER THAN 5'
(TYPE 14)**



**SINGLE DIRECTION RAMP
GRADE BREAK TO THE BACK
OF CURB IS 5' OR LESS
(TYPE 15)**



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



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

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: _____ CHECKED BY: _____
 SIGNATURE/BLOCK: _____ APPROVED BY: _____
 OFFICE OF ENGINEERING
 2800 BERLIN TURNPIKE
 NEWINGTON, CT 06111

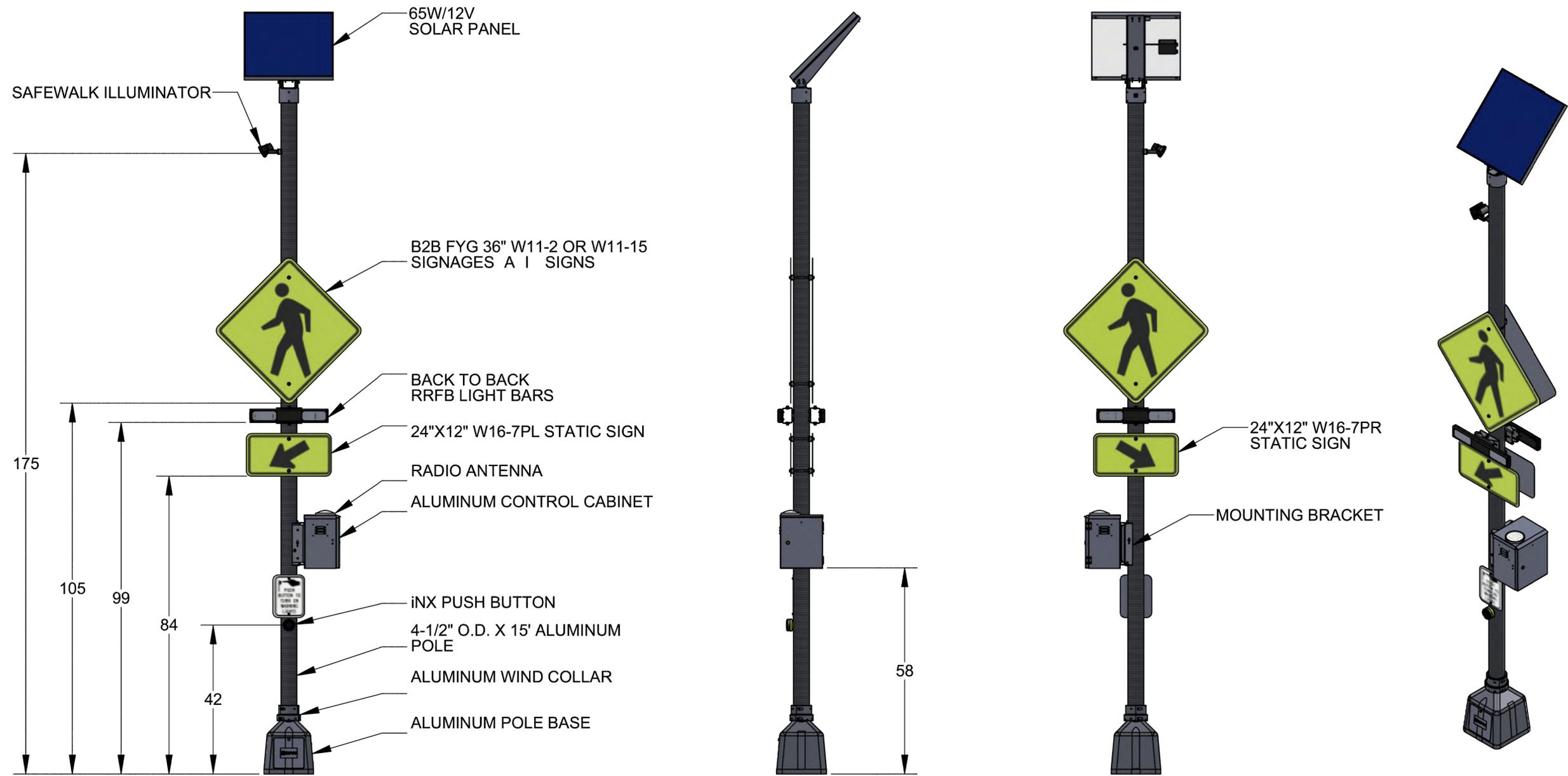


PROJECT NUMBER: 0000-0000
 PROJECT DESCRIPTION: SAMPLE PROJECT DESCRIPTION
 TOWN(S): SAMPLE TOWN(S)
 DRAWING TITLE: CONCRETE SIDEWALK RAMPS SHEET 6 OF 11

DRAWING NO. _____
 SHEET NO. _____

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 PLOTTED DATE: 11/23/2022

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NOTES:

1. ORIENT SOLAR PANEL TOWARDS SOUTHERN SKY FOR MAXIMUM SOLAR EXPOSURE
2. CONTROL CABINET HEIGHT MAY VARY.
3. WORM CLAMPS ARE PROVIDED, STANDARD 3/4" S/S BANDING IS RECOMMENDED
4. J-BOLTS NOT SHOWN
5. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

REV.	DESCRIPTION	ECO	BY	DATE
A	INITIAL RELEASE	-	JP	09/25/2025

DIMENSIONS ARE INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED .X ±0.1 .XX ±0.02 .XXX ±0.008 ANGLES ±1°		<p>5100 West Brown Deer Rd Brown Deer, WI 53223 USA</p> <p>7840 North 86th Street Milwaukee, WI 53224 USA</p>	
DESIGNED BY	DATE		
DRAWN BY	DATE	TITLE SOLAR B2B RRFB RADIO ILLUM PED XING 15' 65W POLE ARRANGEMENT	
APPROVED BY	DATE	SIZE B DOCUMENT NO. (SEE TABLE FOR P/N) SCALE: 1:28	REVISION A REFERENCE: SHT 1 of 1



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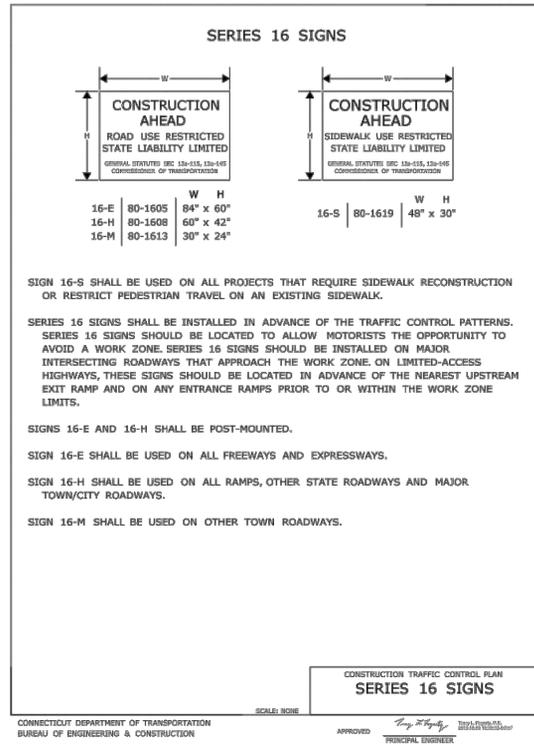
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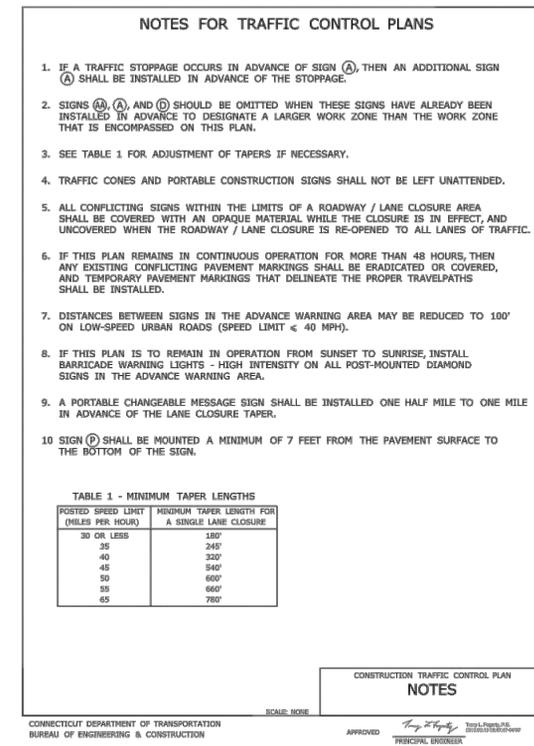
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Sheet Title
DETAILS

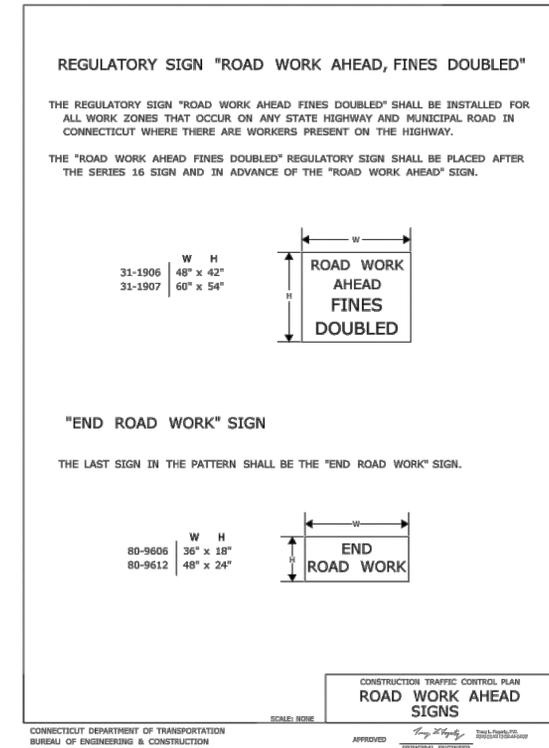
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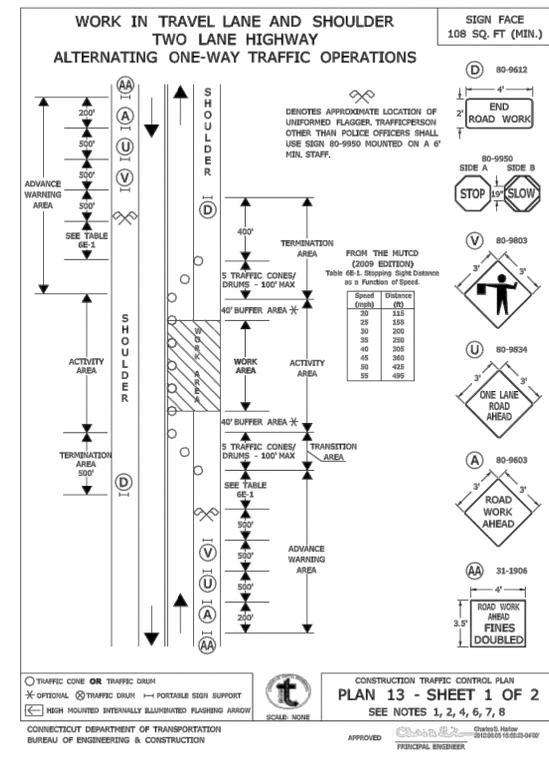
ITEM #971001A



ITEM #971001A



ITEM #971001A



ITEM #971001A



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Professional Seal

Sheet Title: **DETAILS**
Sheet Number:

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