

FILE: F:\DWG\Streets\Main St\PW-1114 Main Street Pavement Rehabilitation\2011 Main Street Rehab.dwg USER: Charles Staudt\jpr DATE: 11/20/12

# TOWN OF GLASTONBURY ENGINEERING DEPARTMENT MAIN STREET REHABILITATION STATE PROJECT No. 53-185

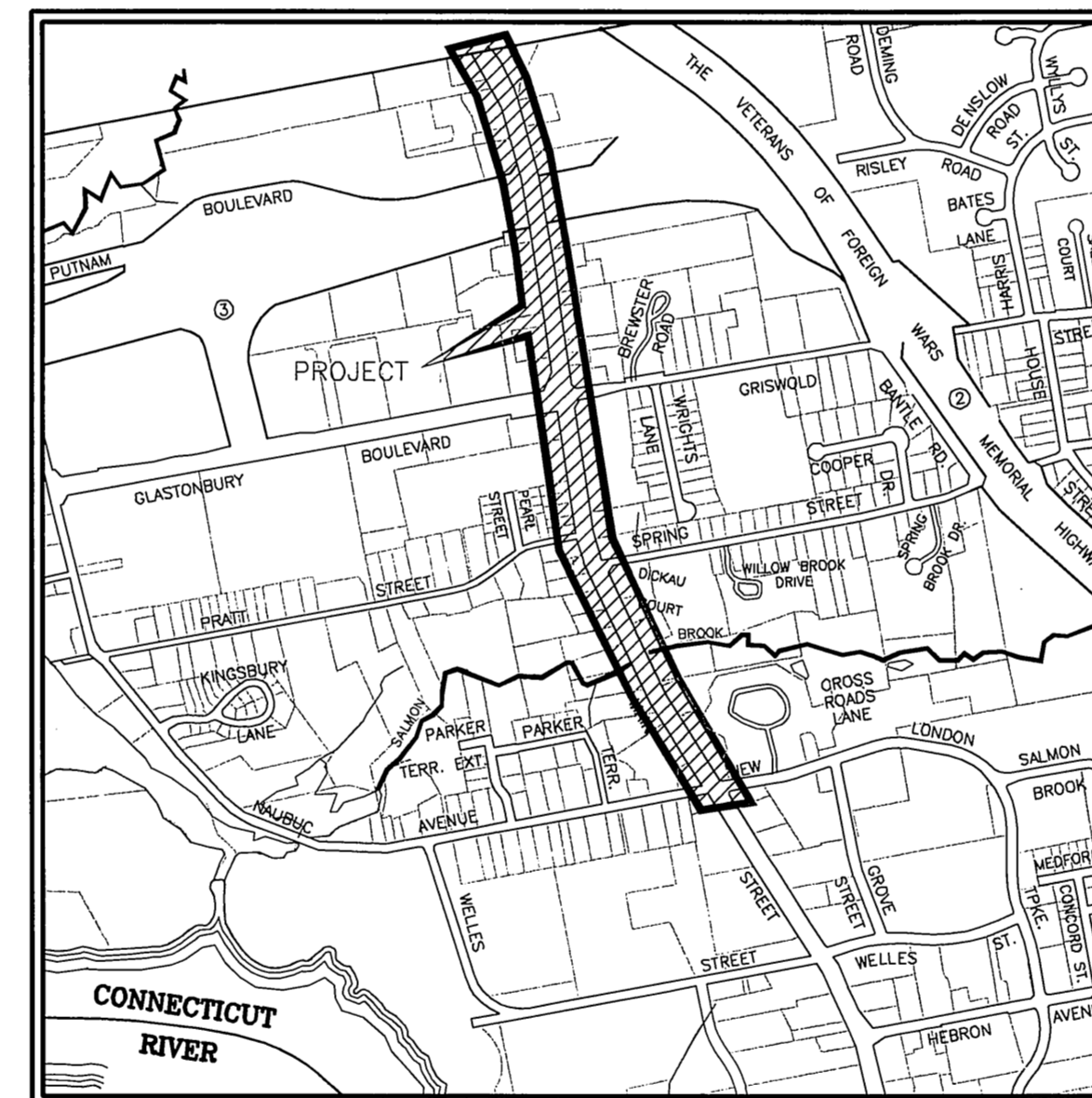
PW-1114

located between

## NEW LONDON TPKE / NAUBUC AV. & THE EAST HARTFORD TOWN LINE GLASTONBURY, CONNECTICUT

SHEET INDEX

SHEET NO.	DESCRIPTION
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2	DETAIL ESTIMATE SHEET
3	TYPICAL CROSS SECTIONS TYPICAL DETAILS
4 - 7	PLAN & PROFILES
8,9	PAVEMENT MARKING PLANS
TR-1208_02	METAL SIGN POST AND SIGN MOUNTING DETAILS
TR-1210_03	SPECIAL DETAILS AND PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS
TR-1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS
TR-1220_02	CONSTRUCTION SIGNS SUPPORTS AND CHANNELIZING DEVICES



LOCATION MAP

SCALE: 1"=1000'

OCTOBER 2012

RICHARD J. JOHNSON  
TOWN MANAGER

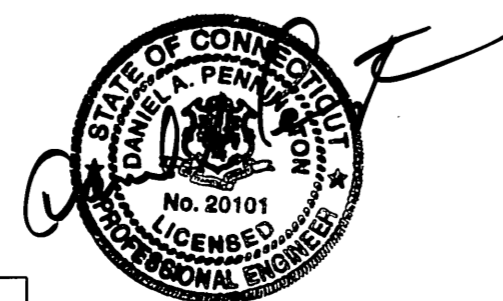
DANIEL A. PENNINGTON  
TOWN ENGINEER/MANAGER OF PHYSICAL SERVICES

1. LOCATION OF FEATURES AND CONTOUR DATA DEPICTED HEREON WHERE ACQUIRED THROUGH FIELD SURVEY CONDUCTED FROM SPRING TO FALL 2011 .
2. THERE IS NO BOUNDARY/DETERMINATION OPINION.
3. NOT ALL IMPROVEMENTS ARE DEPICTED HEREON.
4. HORIZONTAL CONTROL IS BASED ON THE CONNECTICUT GEODETIC SURVEY STATE PLANE COORDINATES, NORTH AMERICAN DATUM OF 1983 - (NAD83).
5. ELEVATIONS AND VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 - (NAVD88).
6. REFERENCE FOR FLOOD WAY AND FLOOD ZONES IS MADE TO FLOOD INSURANCE RATE MAPS ENTITLED: "NATIONAL FLOOD INSURANCE PROGRAM PANEL 0528F FIRM FLOOD INSURANCE RATE MAP HARTFORD COUNTY, CONNECTICUT (ALL JURISDICTIONS) PANEL 528 OF 675 MAP NUMBER 090030528F U.S. DEPARTMENT OF HOMELAND SECURITY, EFFECTIVE DATE: SEPTEMBER 26, 2008 FEDERAL EMERGENCY MANAGEMENT AGENCY." & "NATIONAL FLOOD INSURANCE PROGRAM PANEL 0528F FIRM FLOOD INSURANCE RATE MAP HARTFORD COUNTY, CONNECTICUT (ALL JURISDICTIONS) PANEL 528 OF 675 MAP NUMBER 090030528F U.S. DEPARTMENT OF HOMELAND SECURITY EFFECTIVE DATE: SEPTEMBER 26, 2008 FEDERAL EMERGENCY MANAGEMENT AGENCY."

ISSUED FOR CONSTRUCTION

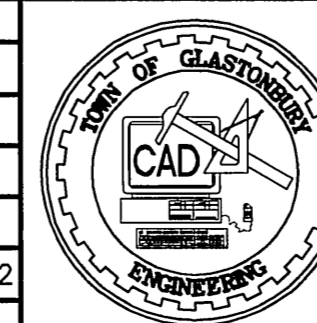
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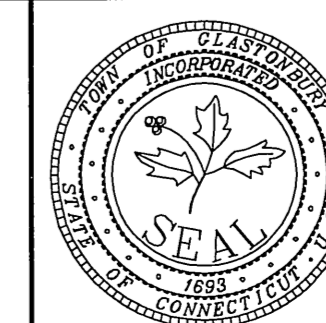


STP 53-185  
PW-1114

DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
1.	ISSUED FOR CONSTRUCTION	10/22/2012



SCALE: AS SHOWN	DATE:
DRAWN BY: C.F.S.	6/14/2012
CHECKED BY: S.M.B.	6/15/2012
APPROVED BY: D.A.P.	6/15/2012
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TITLE SHEET  
PAVEMENT REHABILITATION  
FOR  
MAIN STREET  
LOCATED BETWEEN  
NEW LONDON TURNPIKE / NAUBUC AV INTERSECTION  
AND THE EAST HARTFORD - TOWN LINE  
GLASTONBURY, CONNECTICUT

SHEET NO.  
**1**  
OF 13

FILE: H:\DWG\Streets\Main St\PW-114 Main Street Pavement Rehabilitation\2011 Main Street Rehab.dwg USER: Charles Stuchlik Date: 11/05/2012

# DETAILED ESTIMATE SHEET

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 TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED

P = FEDERAL AID PARTICIPATING  
 NP = FEDERAL AID NON PARTICIPATING  
 I = FOR INTERNAL USE ONLY  
 N = NOT A LEGAL DEFINITION

FOR THE CONSTRUCTION OF MAIN STREET PAVEMENT REHABILITATION IN THE TOWN OF GLASTONBURY

FROM STA. 30+00 TO STA. 75+00 LENGTH 4,500 ft; BASE COURSE VARIES WIDTH 52 ft; DEPTH 0.25 ft SURFACE COURSE SUPERPAVE 0.5" WIDTH VARIES ft; DEPTH -- in;

ITEM NUMBER	7	6	5	4	3	1	2	13	12	11	14	15	16	20	19	17	TRENCH	EXCAVATION
ITEM	HMA S1.0	HMA S0.5	HMA S0.375	MATERIAL FOR TACK COAT	FINE MILLING (0-4")	EARTH EXCAVATION	CUT BITUMINOUS CONCRETE PAVEMENT	PERMANENT DRIVEWAY REPAIRS	BITUMINOUS CONC. LIP CURE (6")	RESET STONE CURBING	WATER FOR DUST CONTROL	GRADING & TOPSOIL	TURF ESTABLISHMENT	MOBILIZATION	MAINTENANCE AND PROTECTION OF TRAFFIC	TRAFFIC PERSON (UNIFORMED FLAGGER)		
UNIT	TON	TON	TON	GAL.	S.Y.	C.Y.	L.F.	S.Y.	L.F.	L.F.	MGAL.	S.Y.	S.Y.	L.S.	L.S.	HR.		
MAIN STREET	30	3,750	950	3,300	32,600	300	680	2,100	1,100	20	200	400	400	L.S.	L.S.	480		
SUBTOTAL	30	3,750	950	3,300	32,600	300	680	2,100	1,100	20	200	400	400	L.S.	L.S.	480		
UNASSIGNED																		
TOTALS	30	3,750	950	3,300	32,600	300	680	2,100	1,100	20	200	400	400	L.S.	L.S.	480		

ITEM NUMBER	9	10	25	31	39	22	23	24	26	21	30
ITEM	REPLACE CATCH BASIN TOP	RESET MANHOLE	CONSTRUCTION STAKING	SIGN FACE SHEET ALUMINUM TYPE III REFLECTIVE SHEETING	CONSTRUCTION SIGNS BRIGHT FLOURESCENT SHEETING	TRAFFIC CONE	TRAFFIC DRUM	CONSTRUCTION BARRICADE PAVEMENT TYPE III	OPPOSING TRAFFIC LANE DIVIDER	BARRICADE WARNING LIGHTS HIGH INTENSITY	REMOTE CONTROLLED CHANGEABLE MESSAGE SIGN
UNIT	EA.	EA.	L.S.	S.F.	S.F.	EA.	EA.	EA.	EA.	DAY	DAY
MAIN STREET	52	5	L.S.	10	390	20	60	8	12	2,400	80
SUBTOTAL	52	5	L.S.	10	390	20	60	8	12	2,400	80
UNASSIGNED											
TOTALS	52	5	L.S.	10	390	20	60	8	12	2,400	80

ITEM NUMBER	27	28	29	32	33	34	35	36	37	38	FEDERAL NON-PARTICIPATING ITEMS	ALTERNATE ITEMS
ITEM	PREFORMED LOOP DETECTOR TYPE A	PREFORMED LOOP DETECTOR TYPE C	PREFORMED LOOP DETECTOR TYPE D	HOT APPLIED PAINTED PAVEMENT MARKING 4" YELLOW	HOT APPLIED PAINTED PAVEMENT MARKING 4" WHITE	PAINTED LEGENDS, ARROWS AND MARKING	6" WHITE EPOXY RESIN PAVEMENT MARKING	4" WHITE EPOXY RESIN PAVEMENT MARKING	4" YELLOW EPOXY RESIN PAVEMENT MARKING	EPOXY RESIN PAVEMENT MARKING SYMBOLS & LEGENDS		
UNIT	EA.	EA.	EA.	L.F.	L.F.	S.F.	L.F.	L.F.	L.F.	S.F.		
MAIN STREET	17	1	3	18,000	14,000	5,400	480	11,100	9,300	4,900		
SUBTOTAL	17	1	3	18,000	14,000	5,400	480	11,100	9,300	4,900		
UNASSIGNED												
TOTALS	17	1	3	18,000	14,000	5,400	480	11,100	9,300	4,900		

THE LOCATION OF UNDERGROUND UTILITIES DEPICTED HEREON ARE BASED ON FIELD LOCATIONS AND BY INFORMATION PROVIDED BY OTHERS. THEIR TRUE LOCATIONS MAY VARY FROM THOSE INDICATED, AND ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. IF APPLICABLE, UTILIZE THE "CALL BEFORE YOU DIG" NUMBER (1-800-922-4455) TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES, AND RESOLVE CONFLICTS PRIOR TO STARTING CONSTRUCTION, REPAIR OR DESIGN.

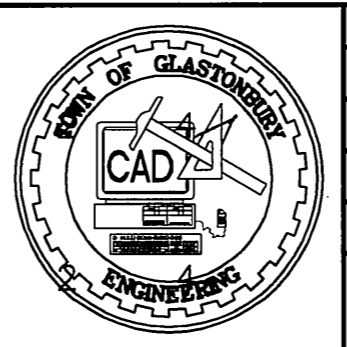
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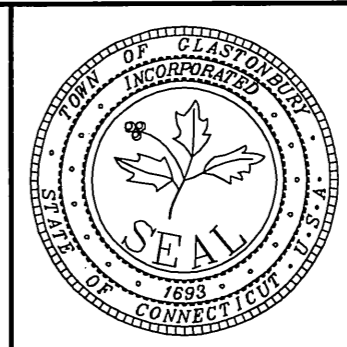
STP 53-185  
 PW-1114

DRAWING ISSUE STATUS		
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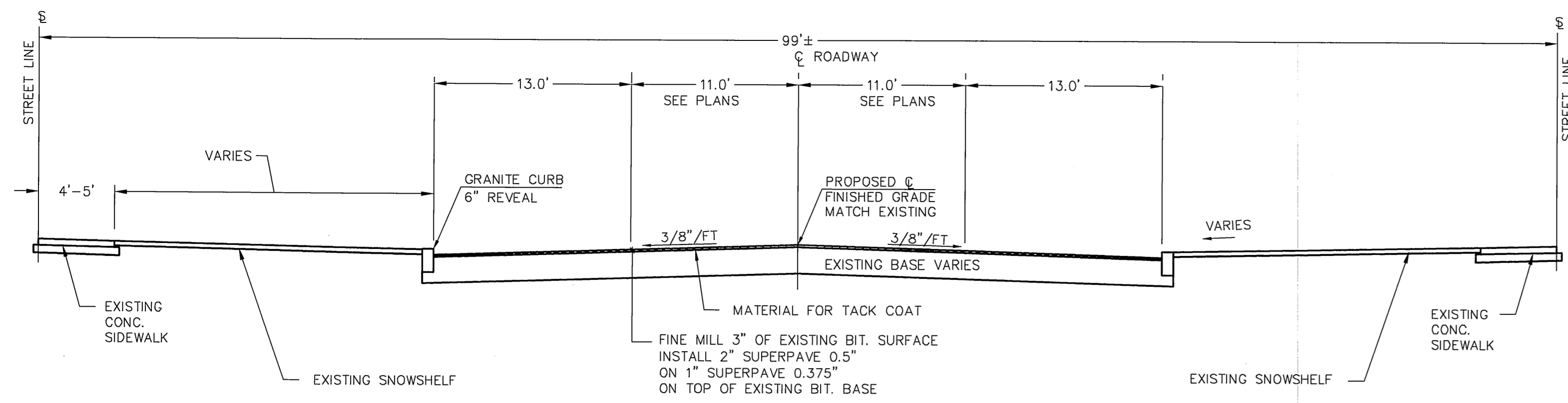
SCALE: AS SHOWN	DATE:
DRAWN BY: C.F.S.	6/14/2012
CHECKED BY: S.M.B.	6/15/2012
APPROVED BY: D.A.P.	6/15/2012
ST. FILE:	

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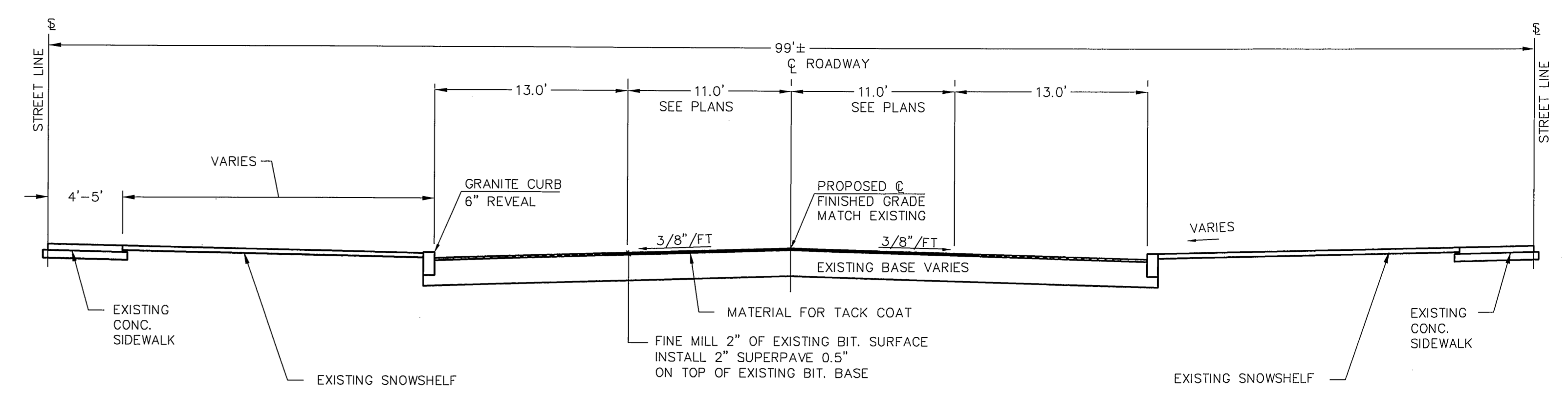


DETAILED - ESTIMATE SHEET  
 PAVEMENT REHABILITATION  
 FOR  
 MAIN STREET  
 LOCATED BETWEEN  
 NEW LONDON TPKE & E. HARTFORD TOWN LINE  
 GLASTONBURY, CONNECTICUT

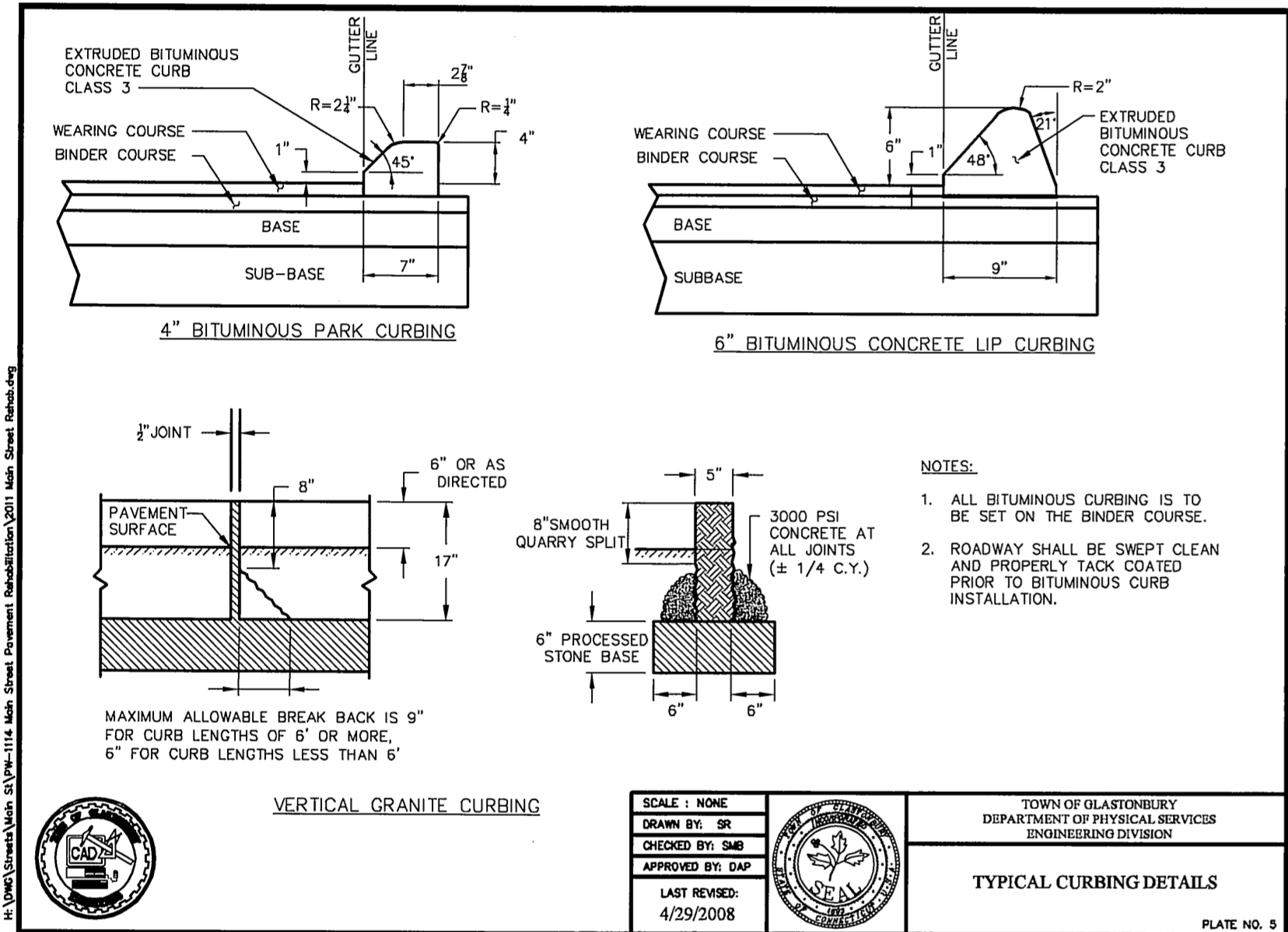
SHEET NO.  
2  
 OF 13



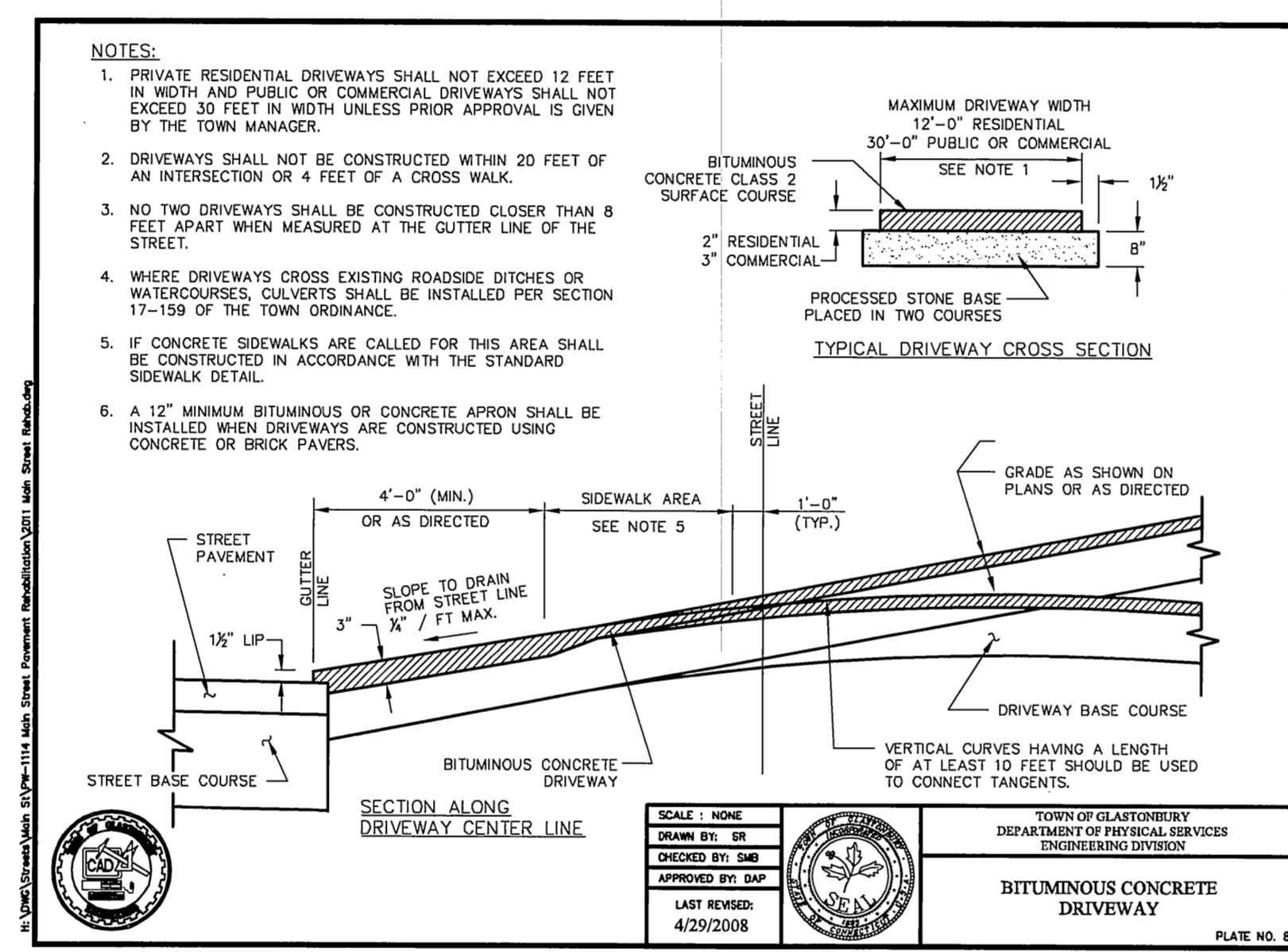
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**TYPICAL CROSS SECTION**  
 STA. 30+00 to STA. 54+77  
 NOT TO SCALE



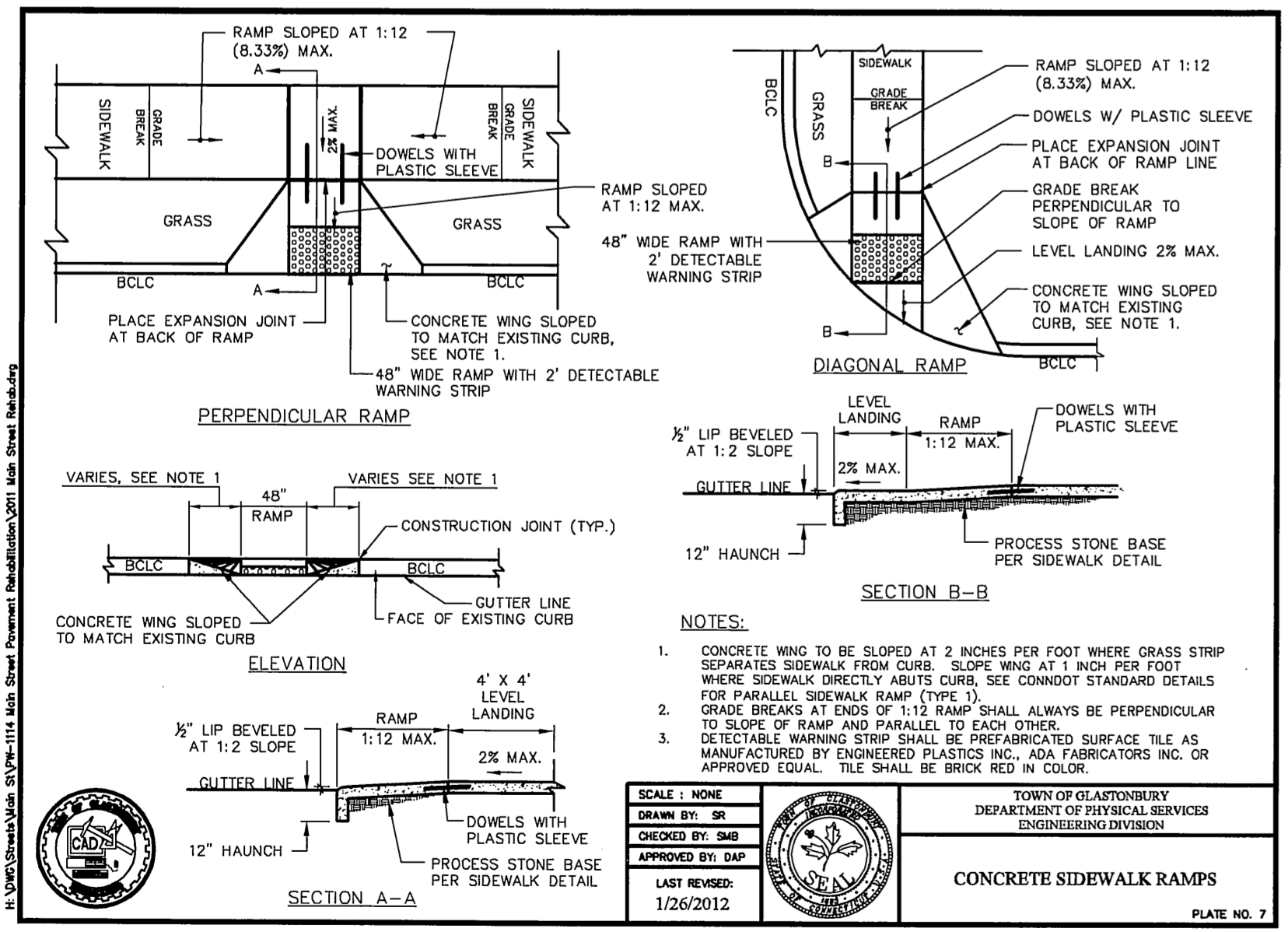
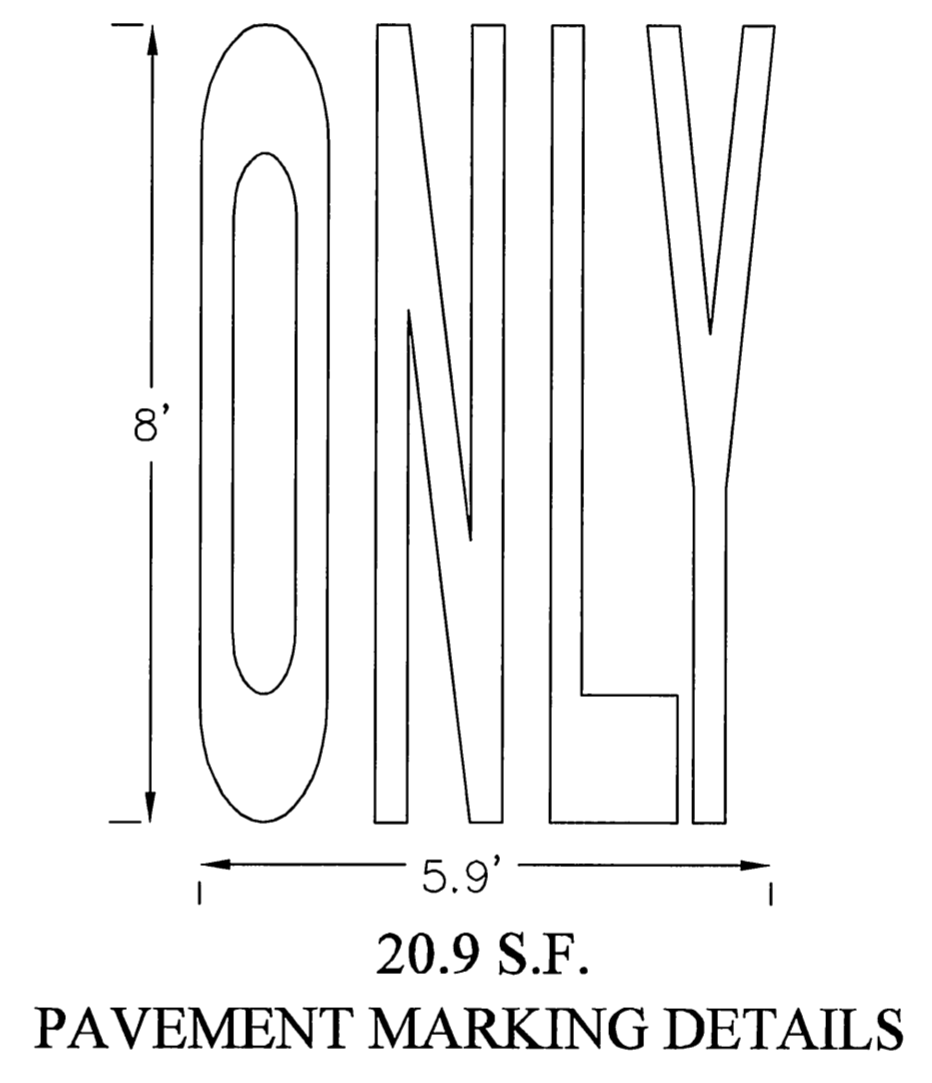
**FINE MILLING W/ 2" OVERLAY**  
**TYPICAL CROSS SECTION**  
 STA. 54+77 to STA. 75+70  
 NOT TO SCALE



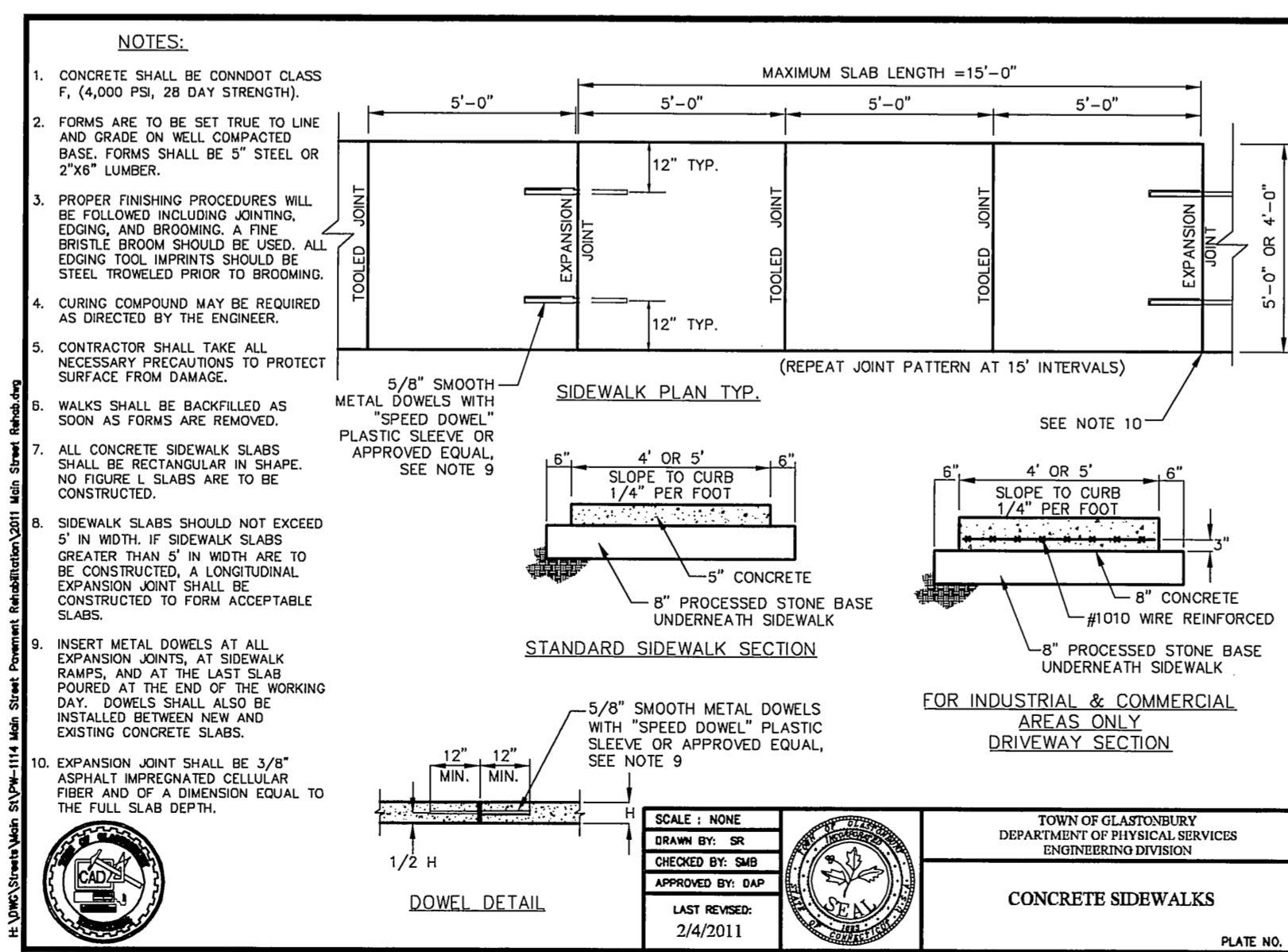
TOWN OF GLASTONBURY  
 DEPARTMENT OF PHYSICAL SERVICES  
 ENGINEERING DIVISION  
**TYPICAL CURBING DETAILS**  
 SCALE: NONE  
 DRAWN BY: SR  
 CHECKED BY: S.M.B.  
 APPROVED BY: D.A.P.  
 LAST REVISED: 4/29/2008  
 PLATE NO. 5



TOWN OF GLASTONBURY  
 DEPARTMENT OF PHYSICAL SERVICES  
 ENGINEERING DIVISION  
**BITUMINOUS CONCRETE DRIVEWAY**  
 SCALE: NONE  
 DRAWN BY: SR  
 CHECKED BY: S.M.B.  
 APPROVED BY: D.A.P.  
 LAST REVISED: 4/29/2008  
 PLATE NO. 8



TOWN OF GLASTONBURY  
 DEPARTMENT OF PHYSICAL SERVICES  
 ENGINEERING DIVISION  
**CONCRETE SIDEWALK RAMPS**  
 SCALE: NONE  
 DRAWN BY: SR  
 CHECKED BY: S.M.B.  
 APPROVED BY: D.A.P.  
 LAST REVISED: 1/26/2012  
 PLATE NO. 7



TOWN OF GLASTONBURY  
 DEPARTMENT OF PHYSICAL SERVICES  
 ENGINEERING DIVISION  
**CONCRETE SIDEWALKS**  
 SCALE: NONE  
 DRAWN BY: SR  
 CHECKED BY: S.M.B.  
 APPROVED BY: D.A.P.  
 LAST REVISED: 2/4/2011  
 PLATE NO. 6

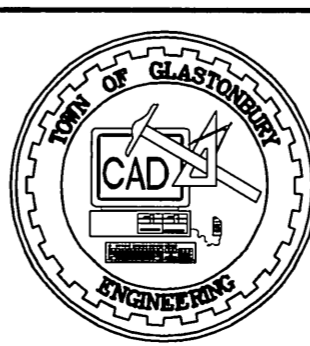
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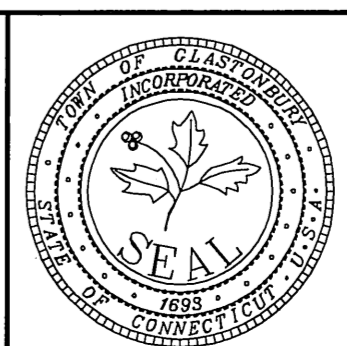
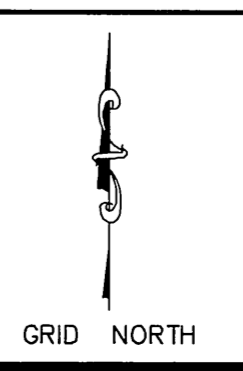
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STP 53-185  
 PW-1014

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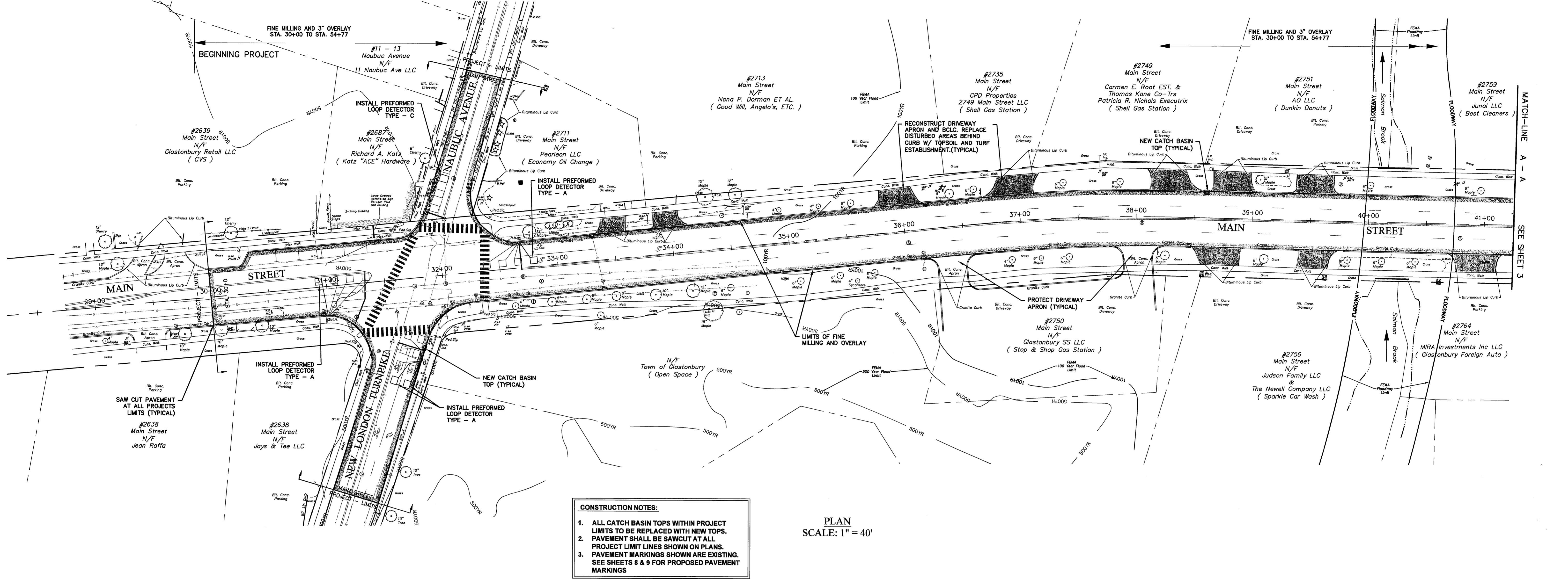
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TYPICAL CROSS-SECTIONS & DETAILS  
 PAVEMENT REHABILITATION  
 FOR  
 MAIN STREET  
 LOCATED BETWEEN  
 NEW LONDON TPKE & E. HARTFORD TOWN LINE  
 GLASTONBURY, CONNECTICUT

SHEET NO.  
**3**  
 OF 13

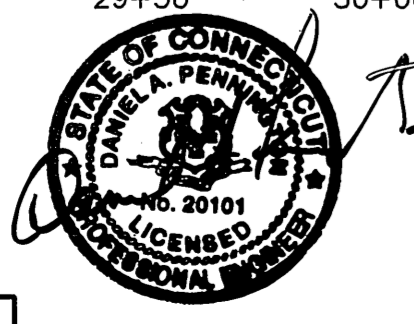
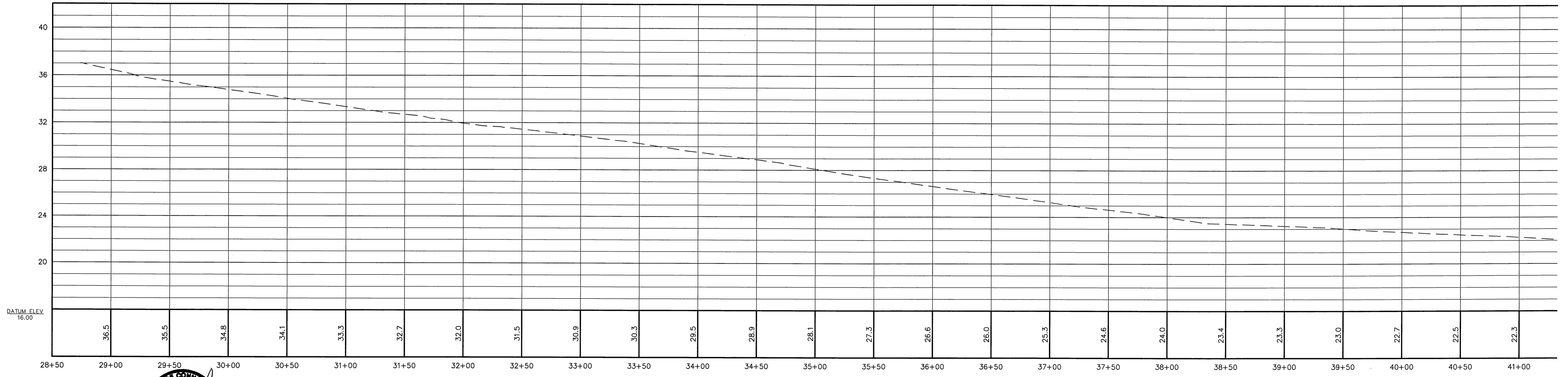
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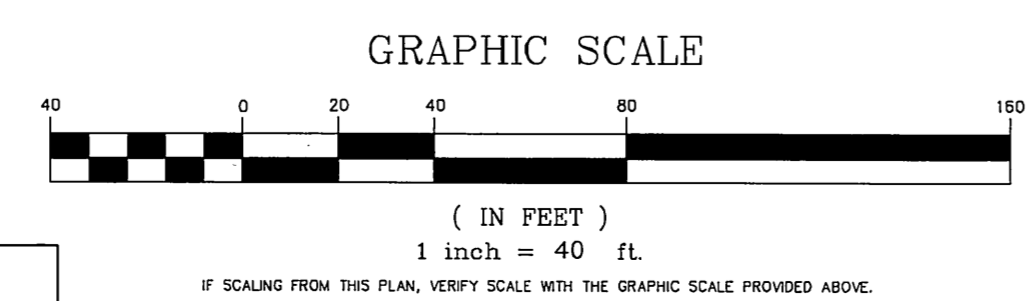
**CONSTRUCTION NOTES:**

1. ALL CATCH BASIN TOPS WITHIN PROJECT LIMITS TO BE REPLACED WITH NEW TOPS.
2. PAVEMENT SHALL BE SAWCUT AT ALL PROJECT LIMIT LINES SHOWN ON PLANS.
3. PAVEMENT MARKINGS SHOWN ARE EXISTING. SEE SHEETS 8 & 9 FOR PROPOSED PAVEMENT MARKINGS

PLAN SCALE: 1" = 40'



PROFILE SCALE: 1" = 40' HORIZ. SCALE: 1" = 4' VERT.

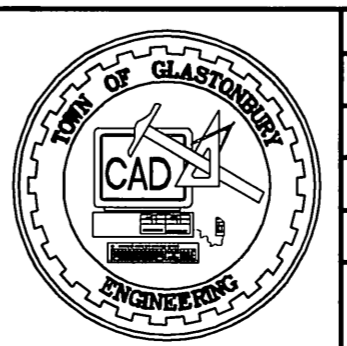


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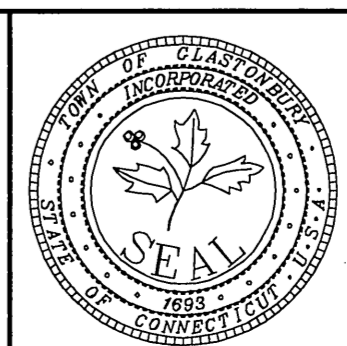
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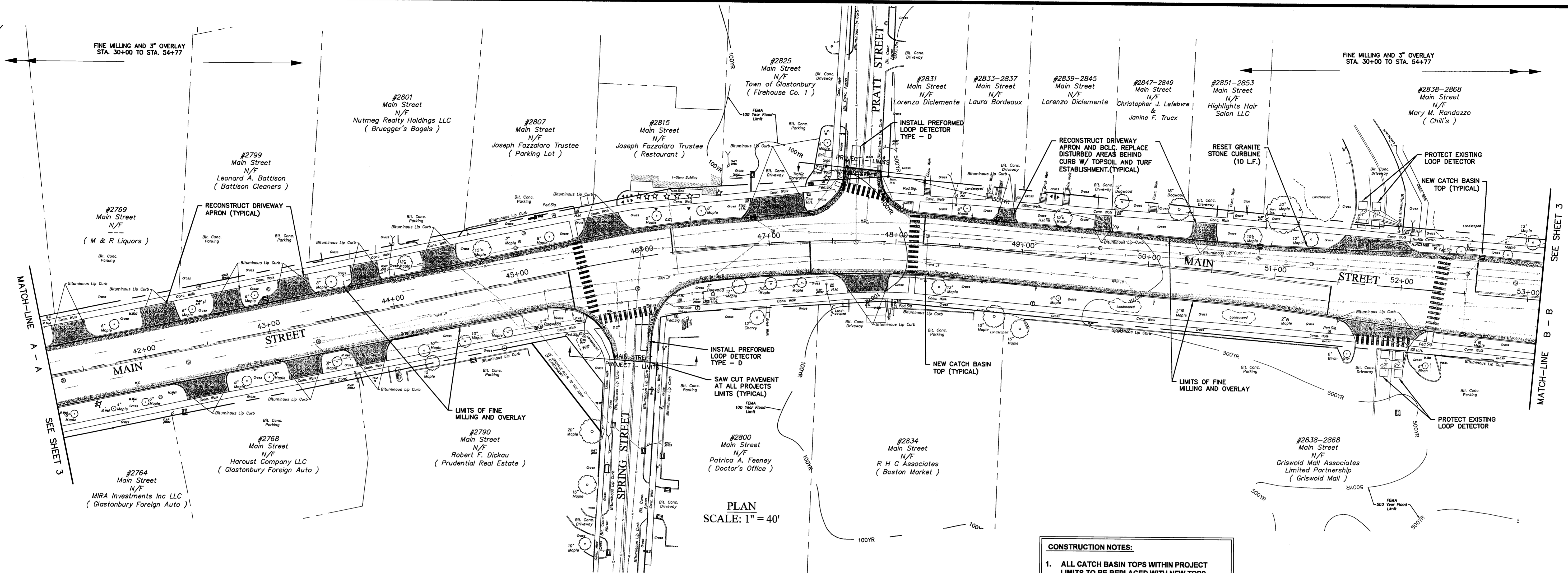
GRID NORTH



PLAN & PROFILE PAVEMENT REHABILITATION FOR MAIN STREET LOCATED BETWEEN NEW LONDON TPKE & E. HARTFORD TOWN LINE GLASTONBURY, CONNECTICUT

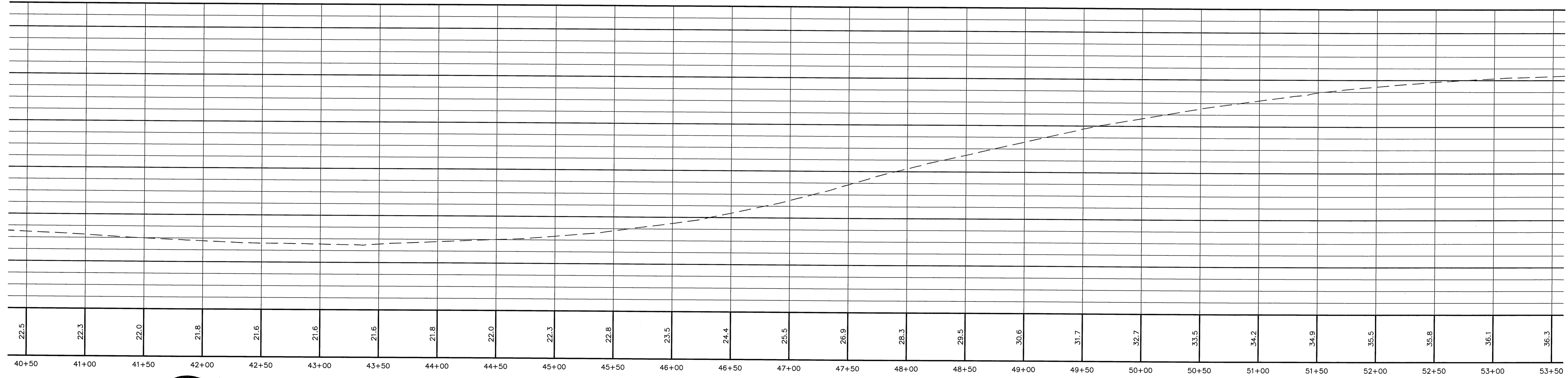
SHEET NO. 4 OF 13

FILE: E:\DWG\Streets\Main St\PW-1114 Main Street Pavement Rehabilitation\2011 Main Street Rehab.dwg USER: Charles Stubbler DATE: 11/02/2012

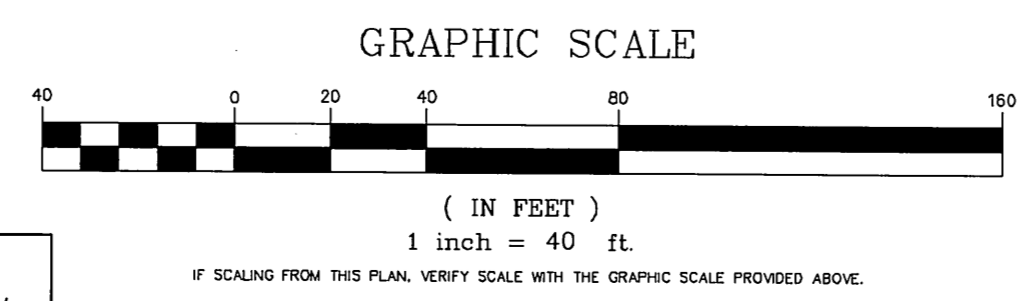


PLAN SCALE: 1" = 40'

- CONSTRUCTION NOTES:**
1. ALL CATCH BASIN TOPS WITHIN PROJECT LIMITS TO BE REPLACED WITH NEW TOPS.
  2. PAVEMENT SHALL BE SAWCUT AT ALL PROJECT LIMIT LINES SHOWN ON PLANS.
  3. PAVEMENT MARKINGS SHOWN ARE EXISTING. SEE SHEETS 8 & 9 FOR PROPOSED PAVEMENT MARKINGS



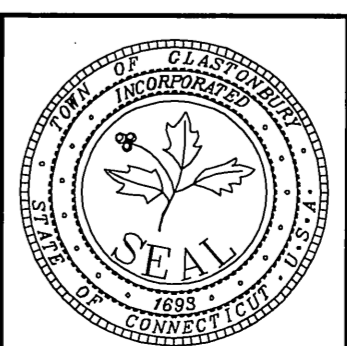
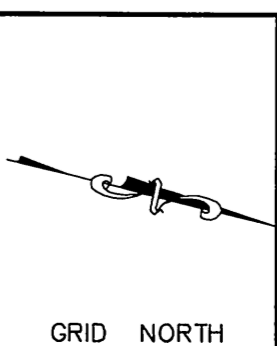
PROFILE SCALE: 1" = 40' HORZ.  
SCALE: 1" = 4' VERT.



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ST. FILE:	



PLAN & PROFILE  
PAVEMENT REHABILITATION  
FOR  
MAIN STREET  
LOCATED BETWEEN  
NEW LONDON TPKE & E. HARTFORD TOWN LINE  
GLASTONBURY, CONNECTICUT

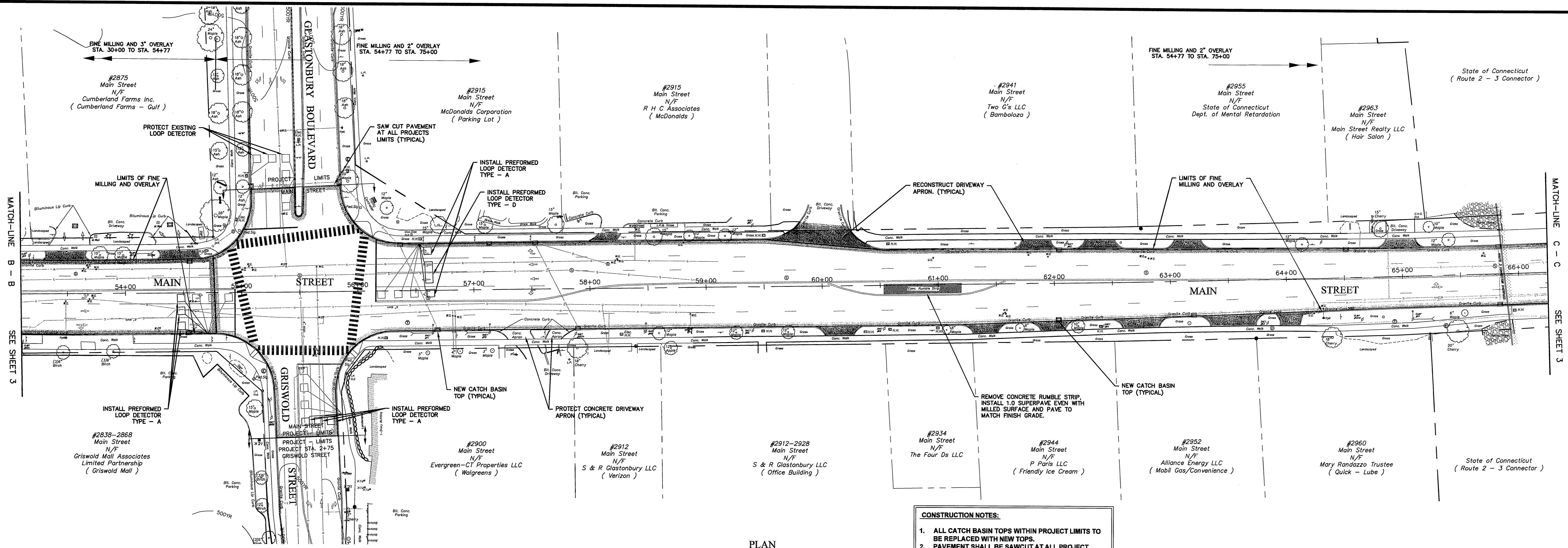
SHEET NO.  
**5**  
OF 13

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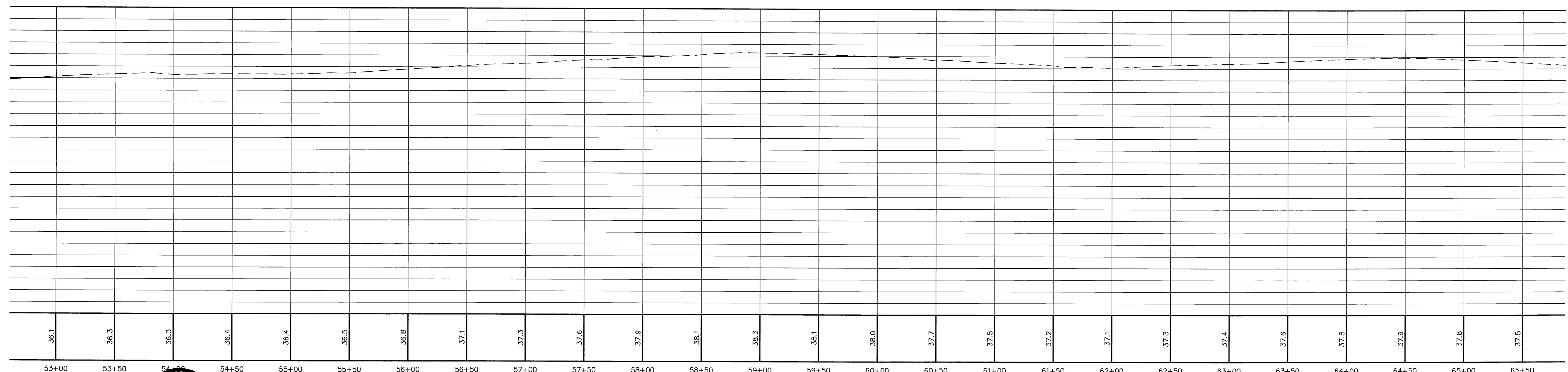
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FILE: H:\DWG\Streets\Main St\PW-1114 Main Street Pavement Rehabilitation\2011 Main Street Rehab.dwg USER: Charles Stambolig DATE: 11/02/2012

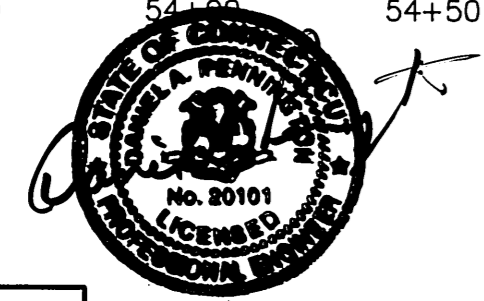
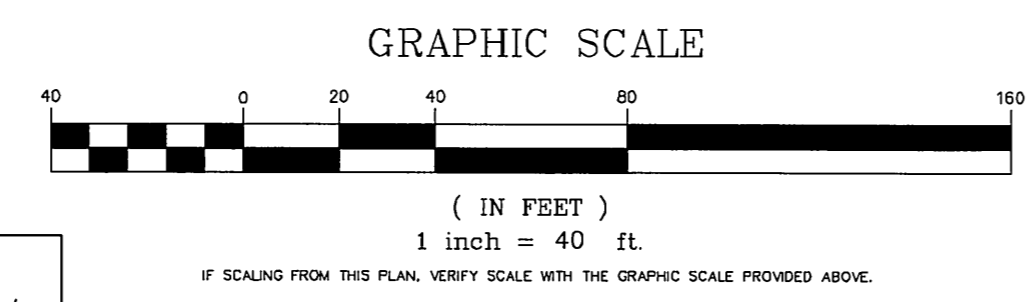


PLAN  
SCALE: 1" = 40'

- CONSTRUCTION NOTES:**
1. ALL CATCH BASIN TOPS WITHIN PROJECT LIMITS TO BE REPLACED WITH NEW TOPS.
  2. PAVEMENT SHALL BE SAWCUT AT ALL PROJECT LIMIT LINES SHOWN ON PLANS.
  3. PAVEMENT MARKINGS SHOWN ARE EXISTING. SEE SHEETS 8 & 9 FOR PROPOSED PAVEMENT MARKINGS.
  4. REMOVAL OF CONCRETE RUMBLE STRIP SHALL BE PAID FOR AS "EARTH EXCAVATION".



PROFILE  
SCALE: 1" = 40' HORIZ.  
SCALE: 1" = 4' VERT.

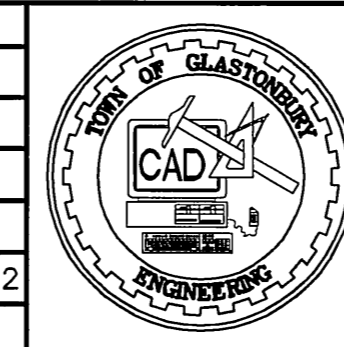


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ALL REVISIONS MUST BE PERFORMED ON CAD FILE.  
H:\DWG\Streets\Main St\PW-1114 Main Street Pavement Rehabilitation\2011 Main Street Rehab.dwg

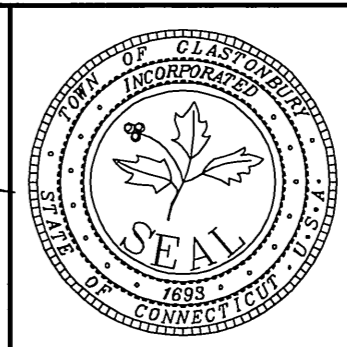
STP 53-185  
PW-1114

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NO.	DESCRIPTION	DATE
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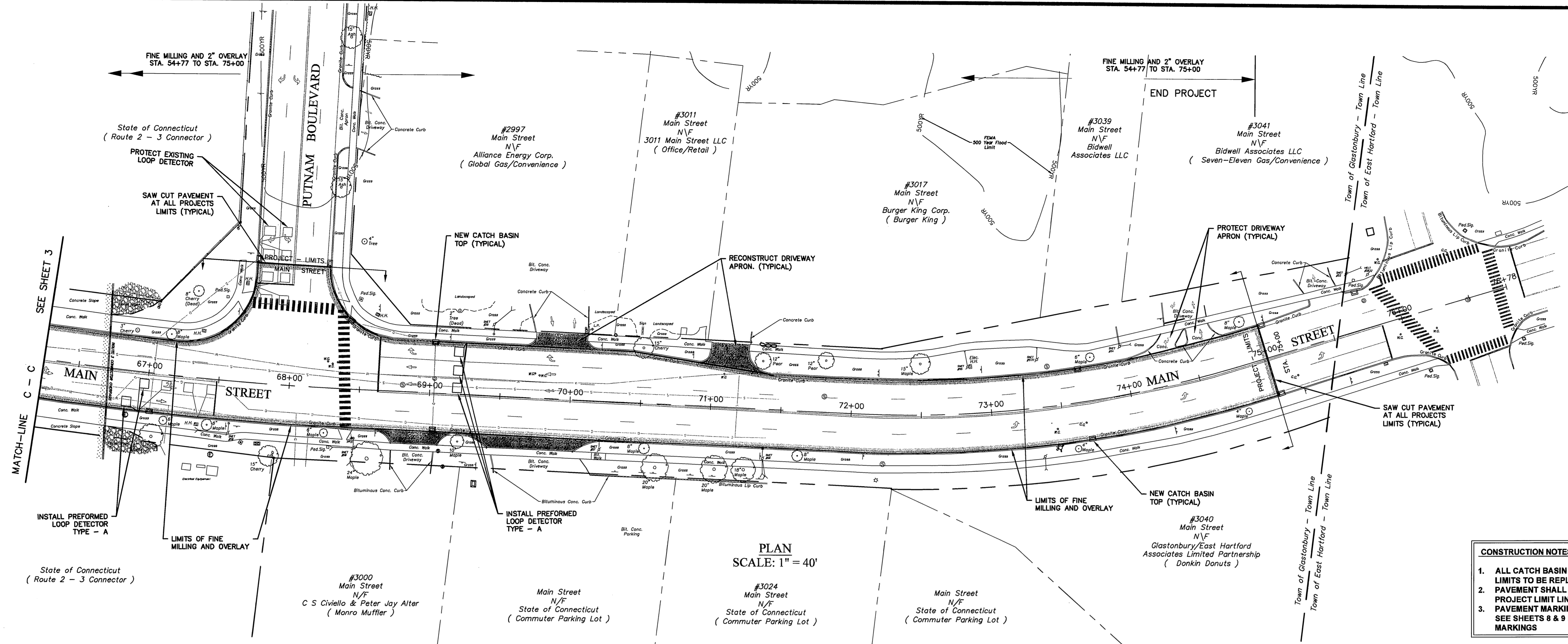
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APPROVED BY: D.A.P.  
ST. FILE:  
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GRID NORTH



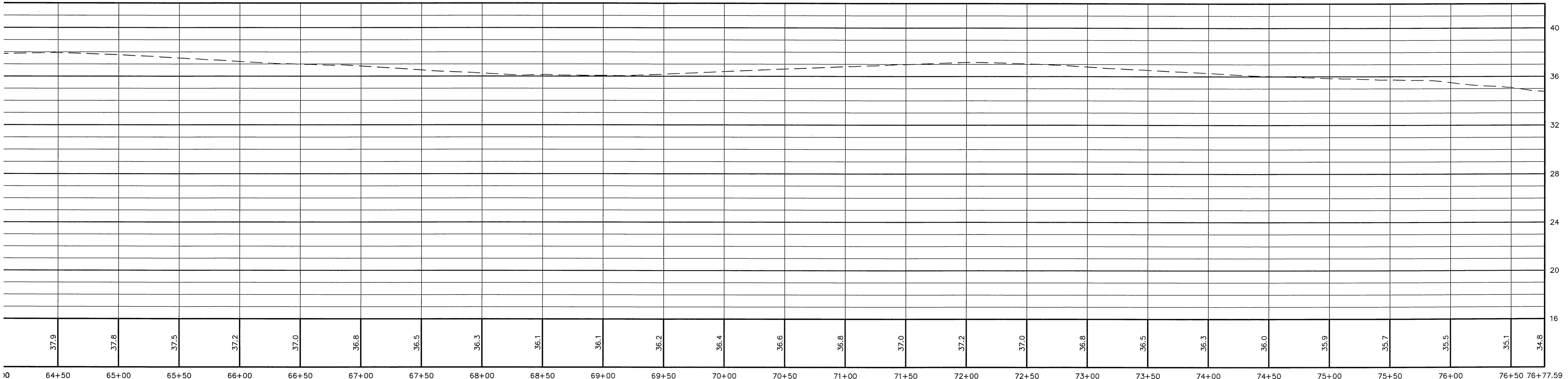
PLAN & PROFILE  
PAVEMENT REHABILITATION  
FOR  
MAIN STREET  
LOCATED BETWEEN  
NEW LONDON TPK & E. HARTFORD TOWN LINE  
GLASTONBURY, CONNECTICUT

SHEET NO.  
**6**  
OF 13

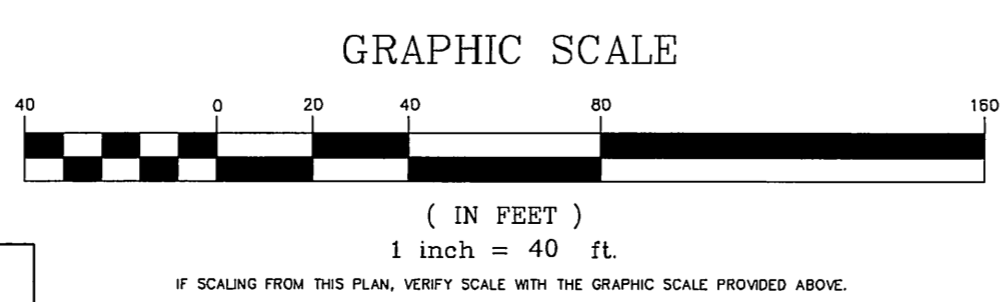


PLAN  
SCALE: 1" = 40'

- CONSTRUCTION NOTES:**
1. ALL CATCH BASIN TOPS WITHIN PROJECT LIMITS TO BE REPLACED WITH NEW TOPS.
  2. PAVEMENT SHALL BE SAWCUT AT ALL PROJECT LIMIT LINES SHOWN ON PLANS.
  3. PAVEMENT MARKINGS SHOWN ARE EXISTING. SEE SHEETS 8 & 9 FOR PROPOSED PAVEMENT MARKINGS.

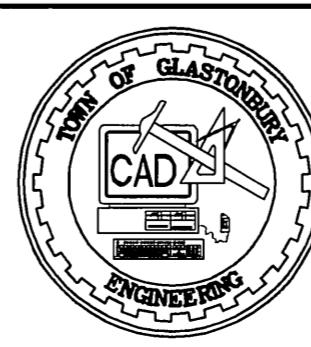


PROFILE  
SCALE: 1" = 40' HORZ.  
SCALE: 1" = 4' VERT.

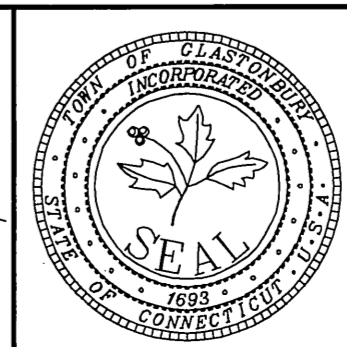
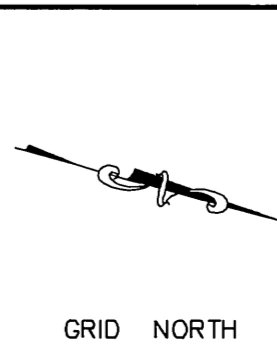


STP 53-185  
PW-1114

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APPROVED BY: D.A.P.	6/15/2012
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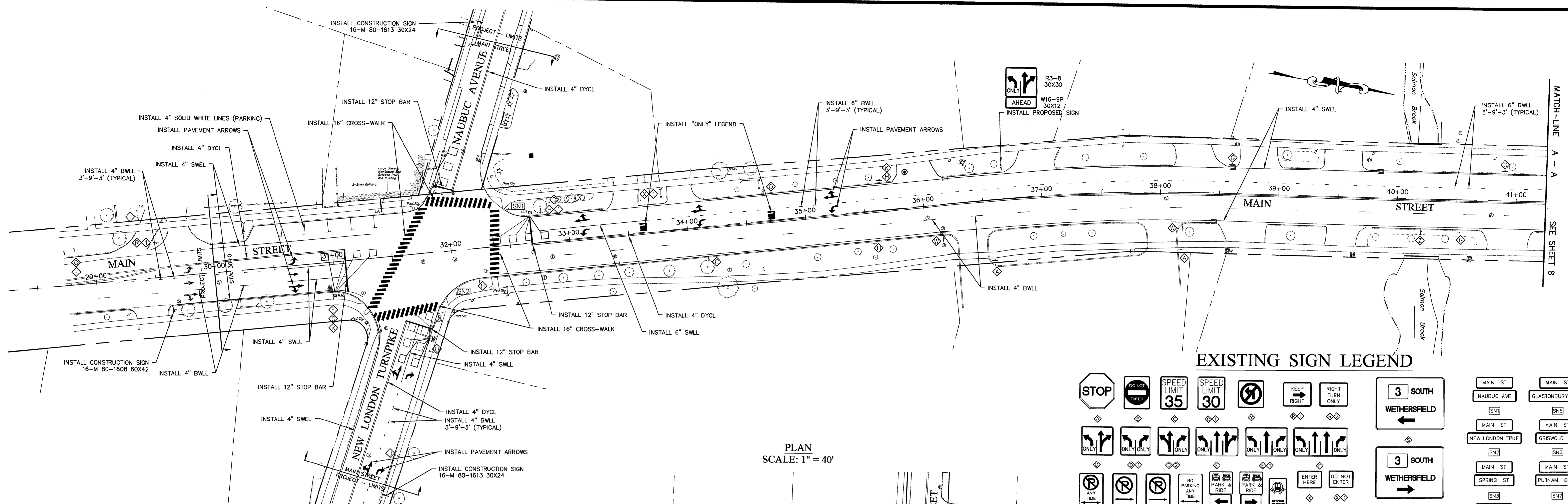
PLAN & PROFILE  
PAVEMENT REHABILITATION  
FOR  
MAIN STREET  
LOCATED BETWEEN  
NEW LONDON TPKE & E. HARTFORD TOWN LINE  
GLASTONBURY, CONNECTICUT

SHEET NO.  
**7**  
OF 13

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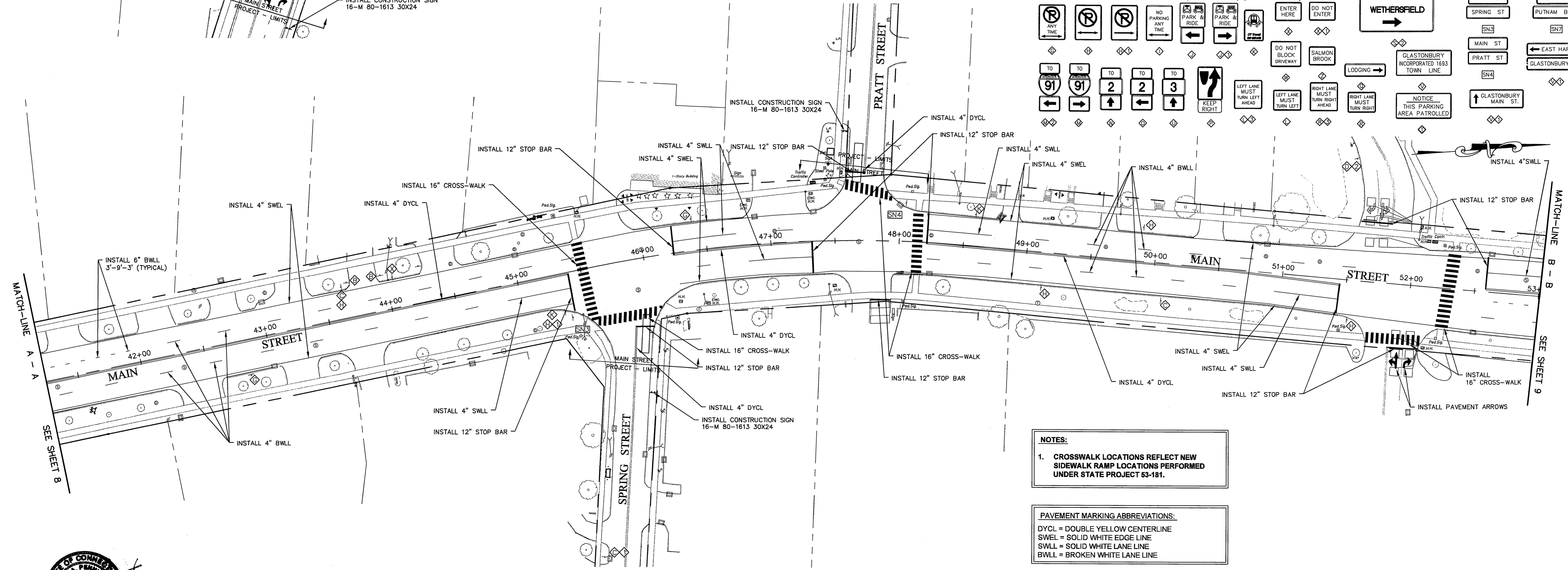
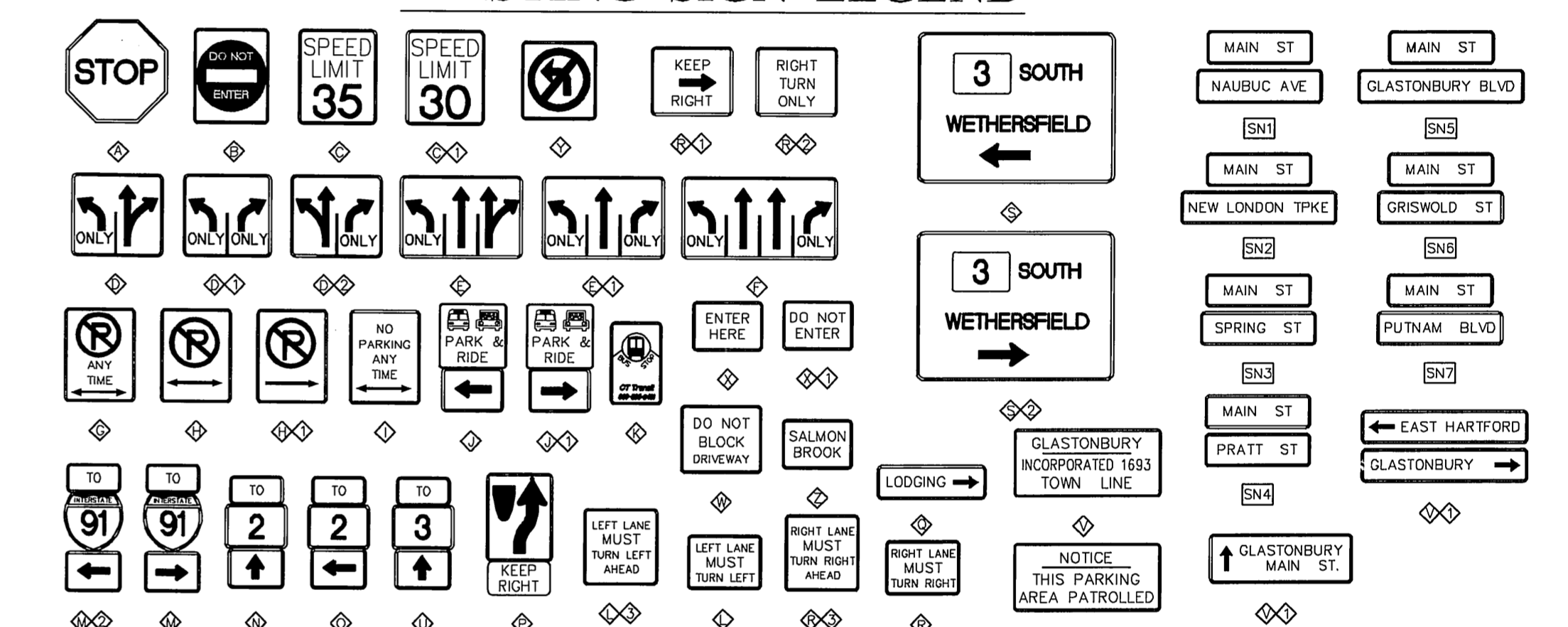
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FILE: H:\DWG\Streets\Main St\PW-114 Main Street Pavement Rehabilitation\2011 Main Street Rehab.dwg USER: Charles Stachliger DATE: 1/6/2012



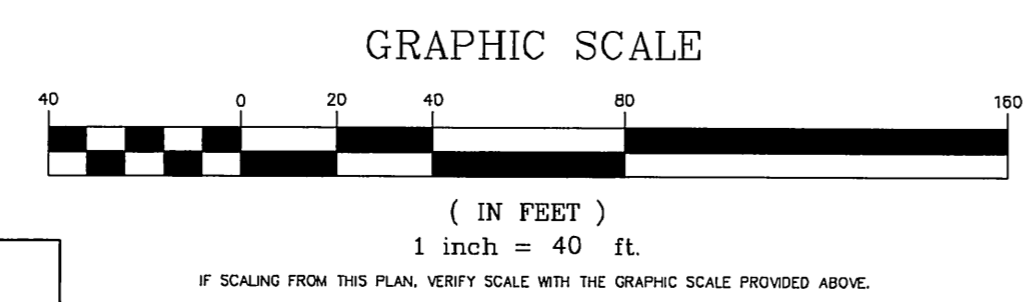
PLAN SCALE: 1" = 40'

EXISTING SIGN LEGEND



**NOTES:**  
1. CROSSWALK LOCATIONS REFLECT NEW SIDEWALK RAMP LOCATIONS PERFORMED UNDER STATE PROJECT 63-181.

**PAVEMENT MARKING ABBREVIATIONS:**  
DYCL = DOUBLE YELLOW CENTERLINE  
SWEL = SOLID WHITE EDGE LINE  
SWLL = SOLID WHITE LANE LINE  
BWLL = BROKEN WHITE LANE LINE

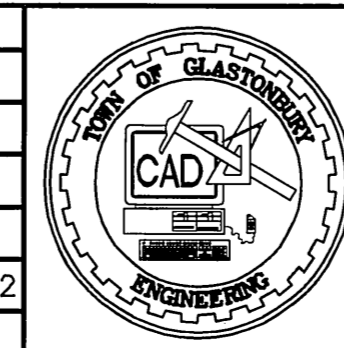


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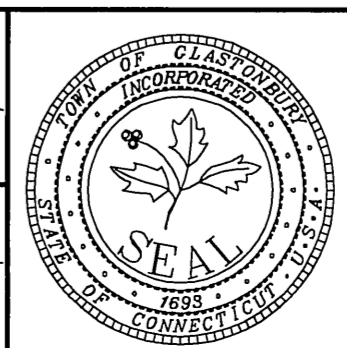
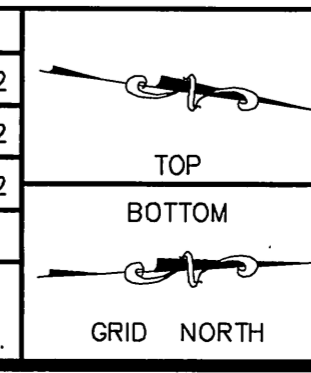
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STP 53-185  
PW-1114

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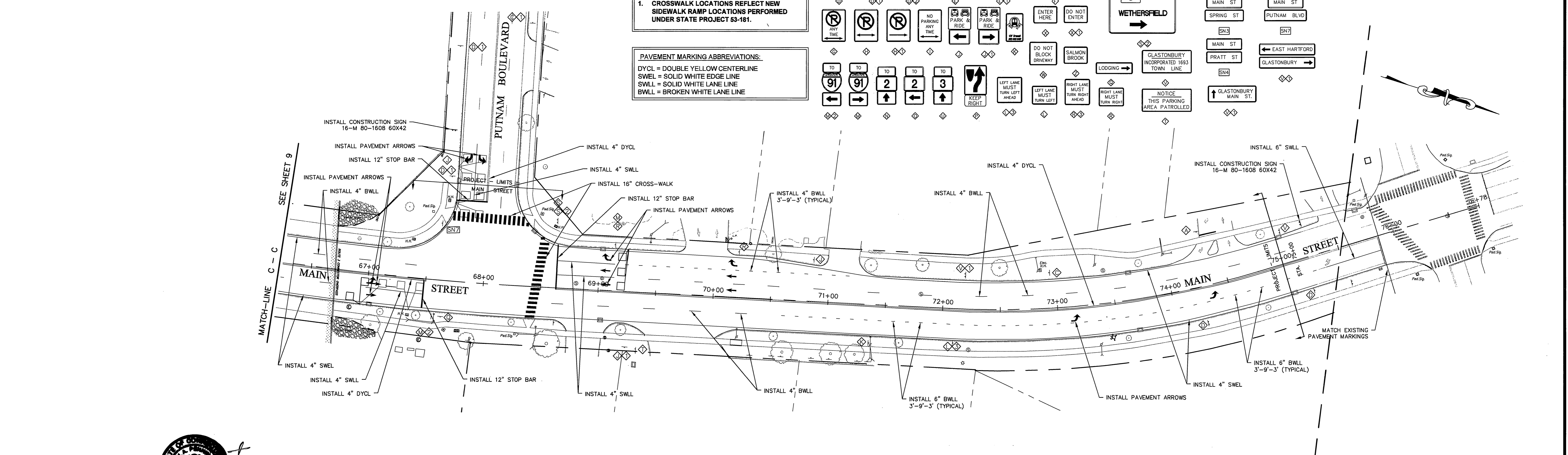
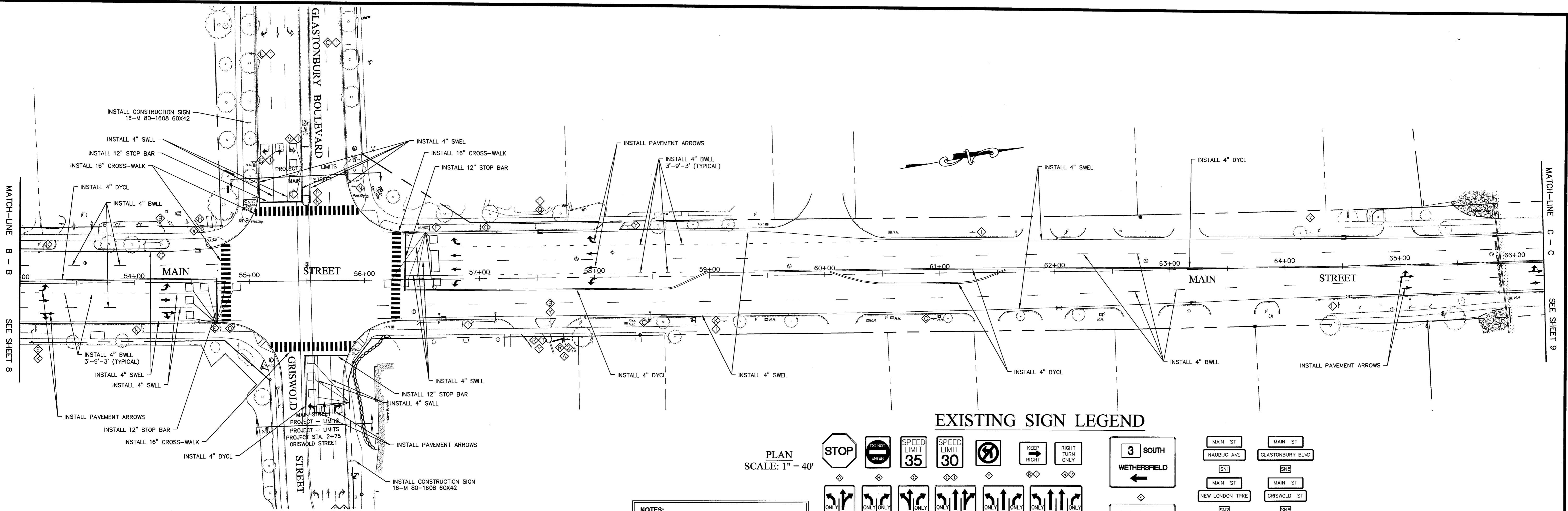
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DRAWN BY: C.F.S.	CHECKED BY: S.M.B.
CHECKED BY: S.M.B.	APPROVED BY: D.A.P.
APPROVED BY: D.A.P.	DATE: 6/15/2012
ST. FILE:	



PAVEMENT MARKING PLAN  
FOR  
MAIN STREET  
LOCATED BETWEEN  
NEW LONDON TPKE & E. HARTFORD TOWN LINE  
GLASTONBURY, CONNECTICUT

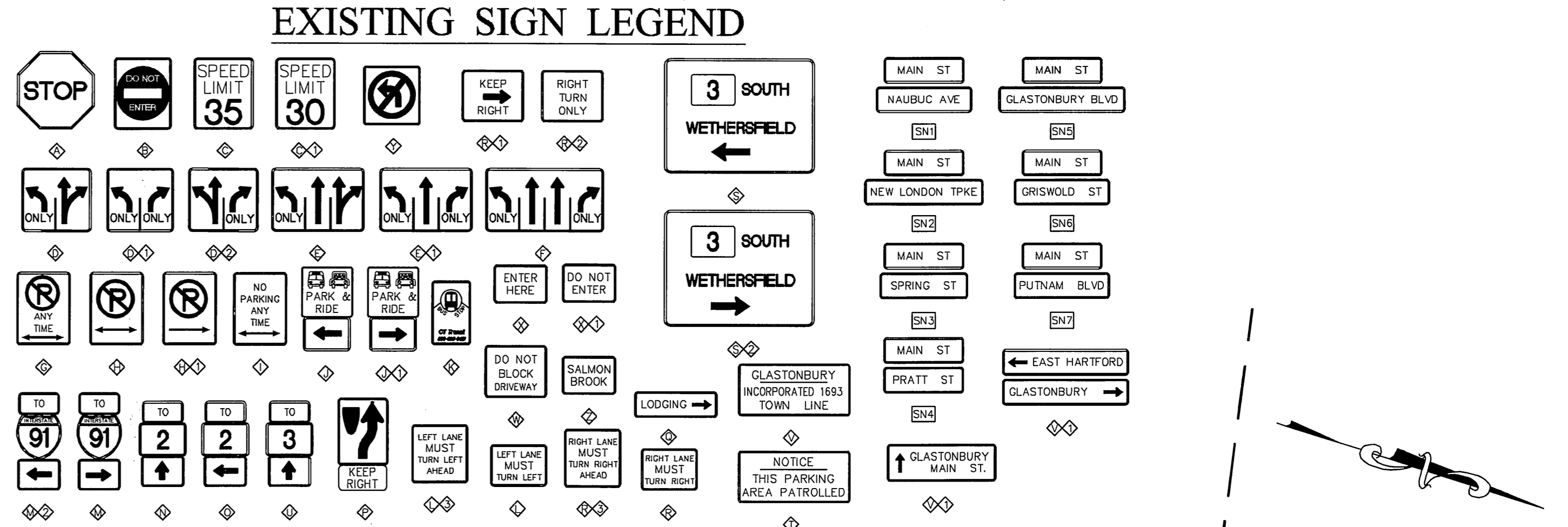
SHEET NO.  
**8**  
OF 13



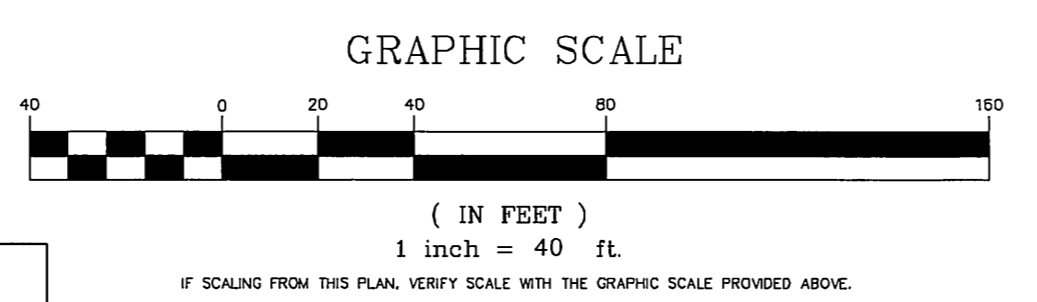


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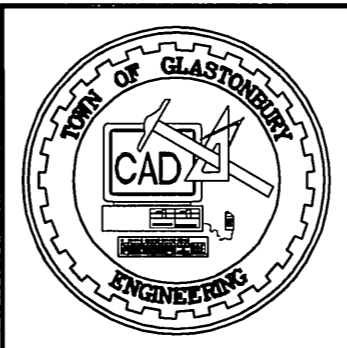


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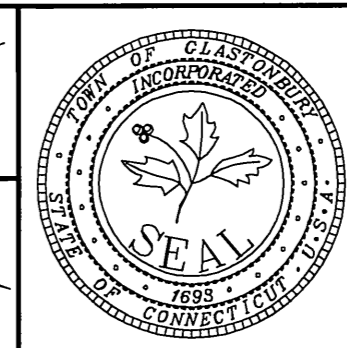
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STP 53-185 PW-1114

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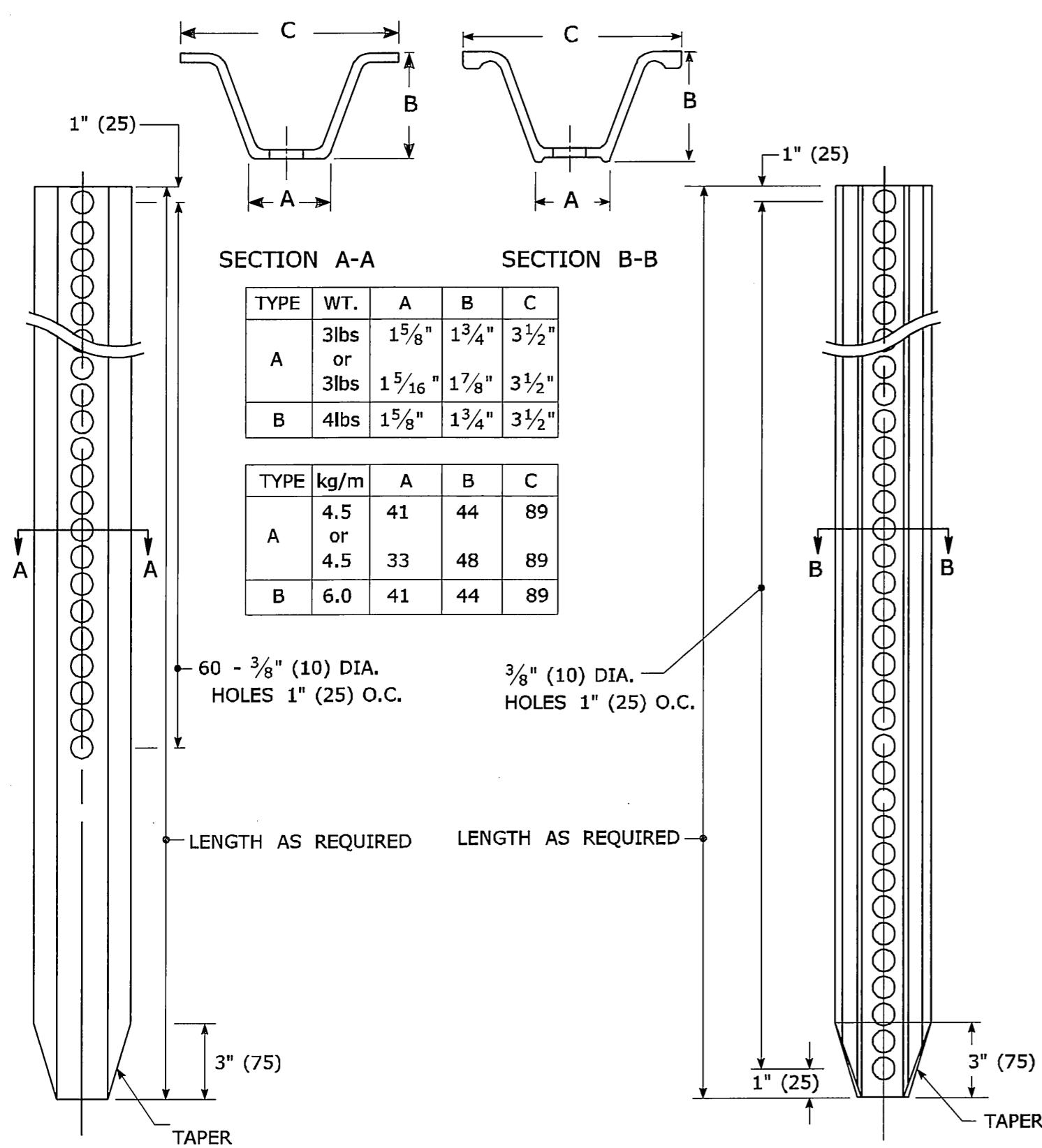
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DRAWN BY: C.F.S.	6/14/2012
CHECKED BY: S.M.B.	6/15/2012
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PAVEMENT MARKING PLAN  
 PAVEMENT REHABILITATION  
 FOR  
 MAIN STREET  
 LOCATED BETWEEN  
 NEW LONDON TPKE & E. HARTFORD TOWN LINE  
 GLASTONBURY, CONNECTICUT

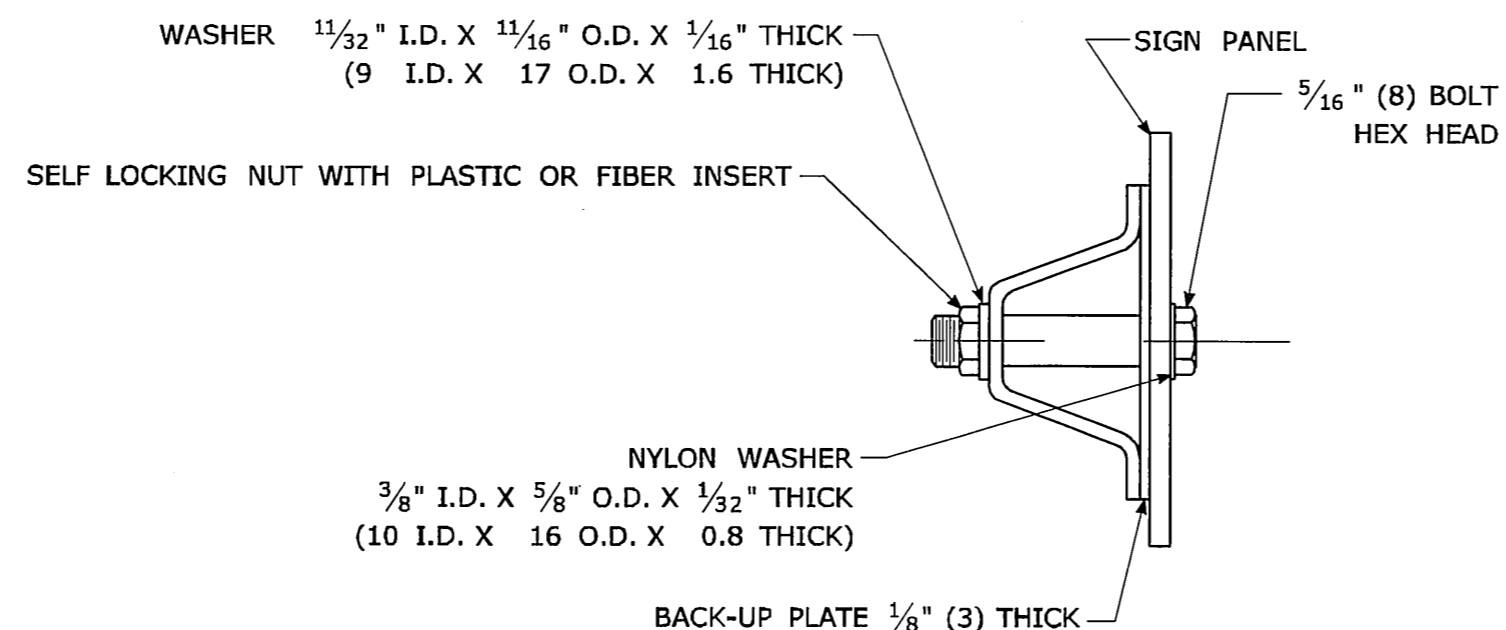
SHEET NO.  
**9**  
 OF 13

**TYPICAL METAL SIGN POSTS**

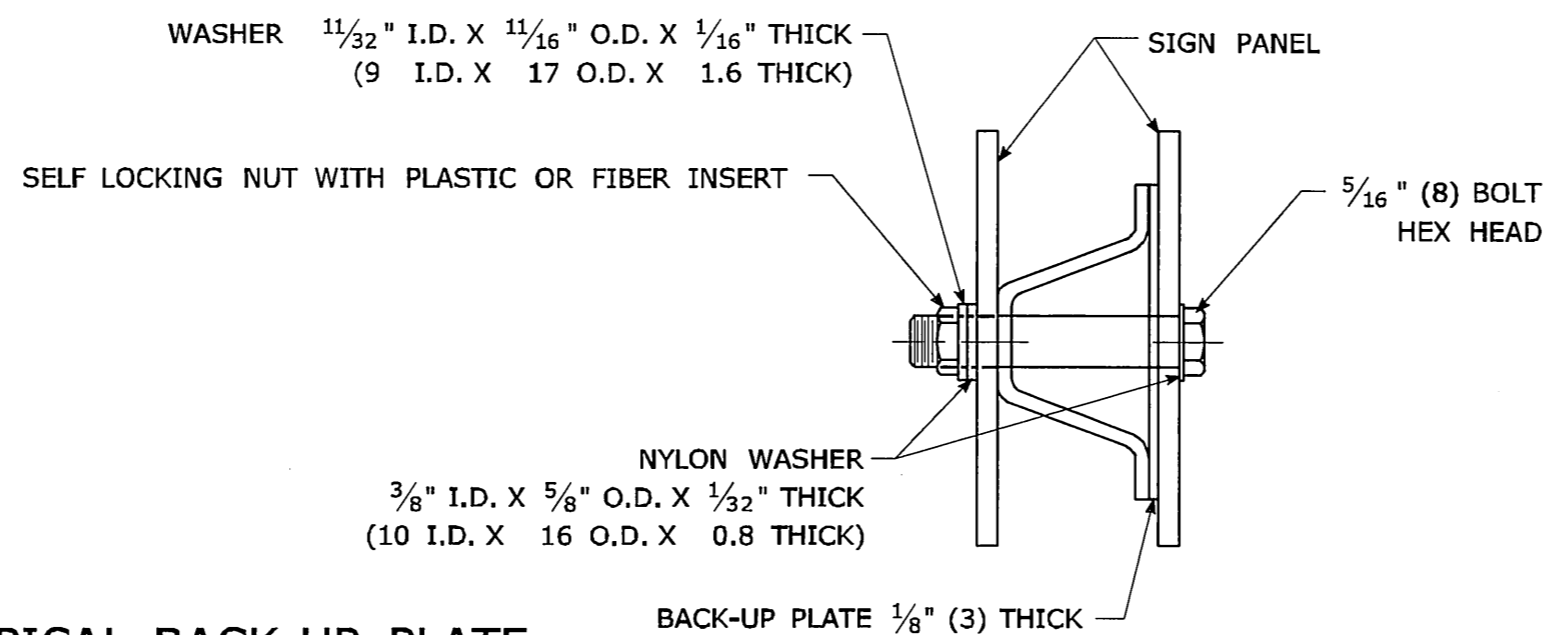


SECTION A-A				SECTION B-B					
TYPE	WT.	A	B	C	TYPE	kg/m	A	B	C
A	3lbs	1 5/8"	1 3/4"	3 1/2"	A	4.5	41	44	89
	or 3lbs	1 5/16"	1 7/8"	3 1/2"		B	4.5	33	48
B	4lbs	1 5/8"	1 3/4"	3 1/2"	B		6.0	41	44

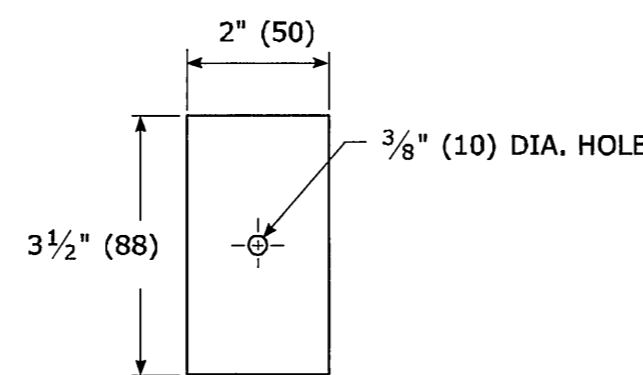
**TYPICAL SIGN PANEL ATTACHMENT**



**TYPICAL BACK TO BACK SIGN PANEL ATTACHMENT**



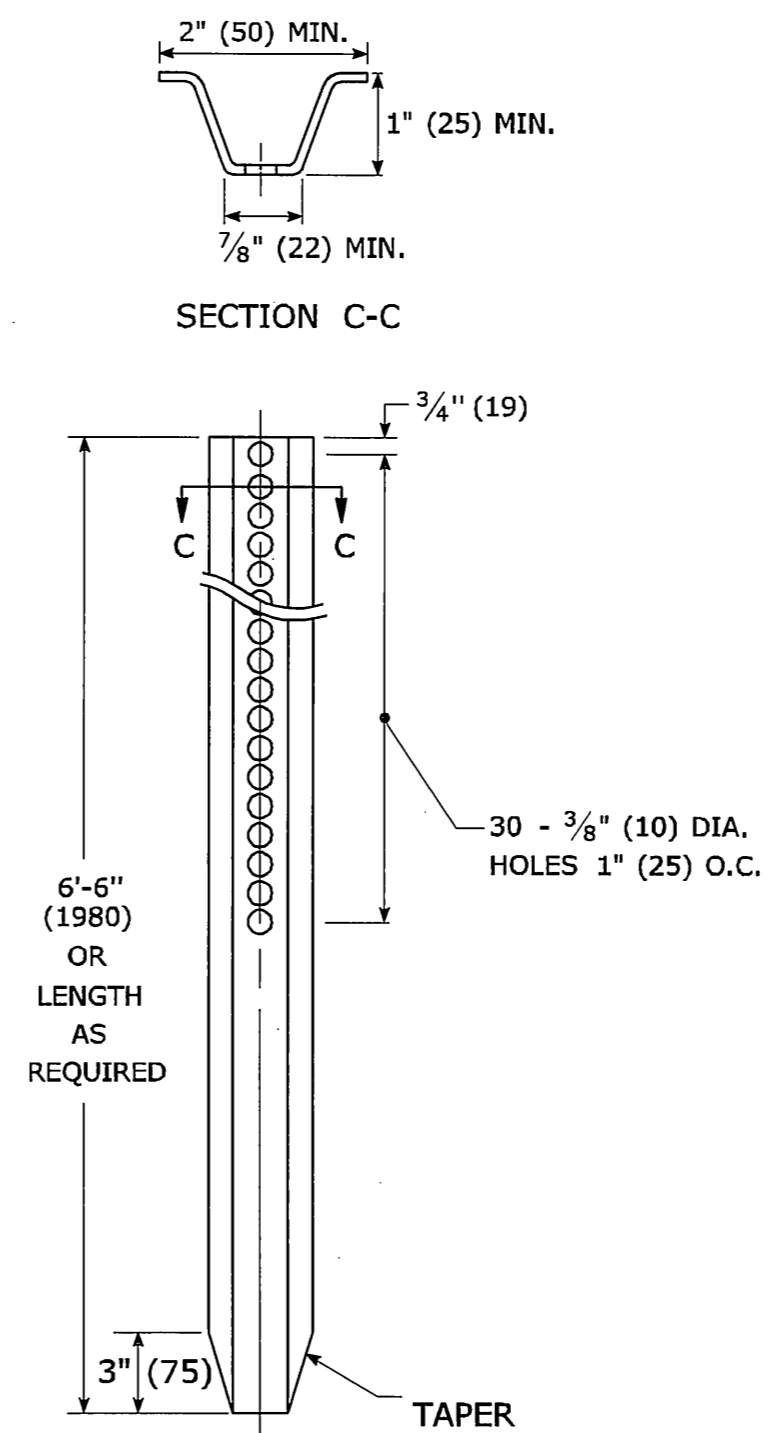
**TYPICAL BACK-UP PLATE**



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. MIN.  
 (MASS/m = 1.67 kg/m MIN.)

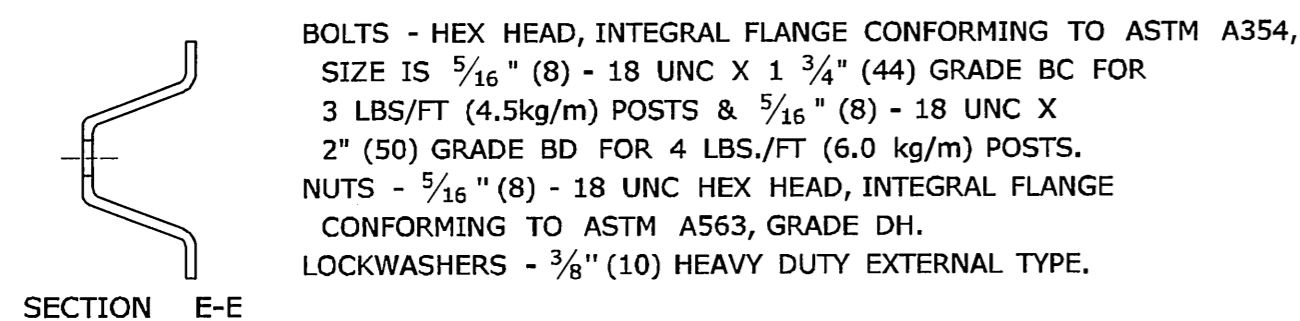


**GENERAL NOTES:**

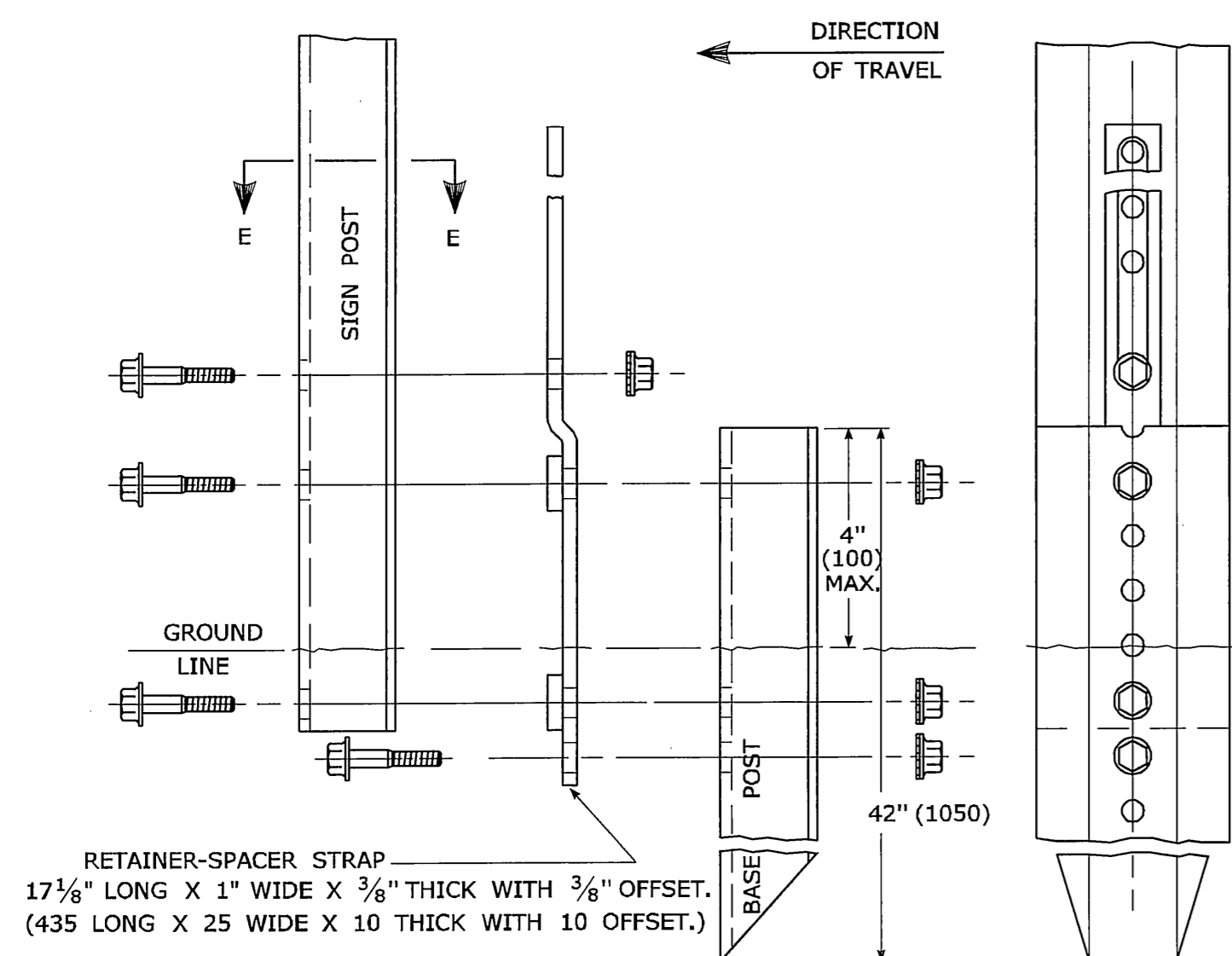
- STEEL FOR DELINEATOR POSTS SHALL BE ASTM A36/A36(m) STEEL. STEEL FOR ALL OTHER POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499 GRADE 60 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT (MASS) OF 91lbs. (45 kg.) OR GREATER PER LINEAR YARD (METER).
- AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123/A123(m).
- WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
- ALL BOLTS, NUTS, AND WASHERS FOR BREAKAWAY INSTALLATIONS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153/A153(m).
- 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 (97 km/h) WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- TYPE A POSTS - 3 lbs/ft (4.5 kg/m) TYPE B POSTS - 4 lbs/ft (6 kg/m).

**BREAKAWAY TYPE I INSTALLATION**

FOR 3 & 4 LB. POSTS  
 (FOR 4.5 & 6.0 kg/m POSTS)

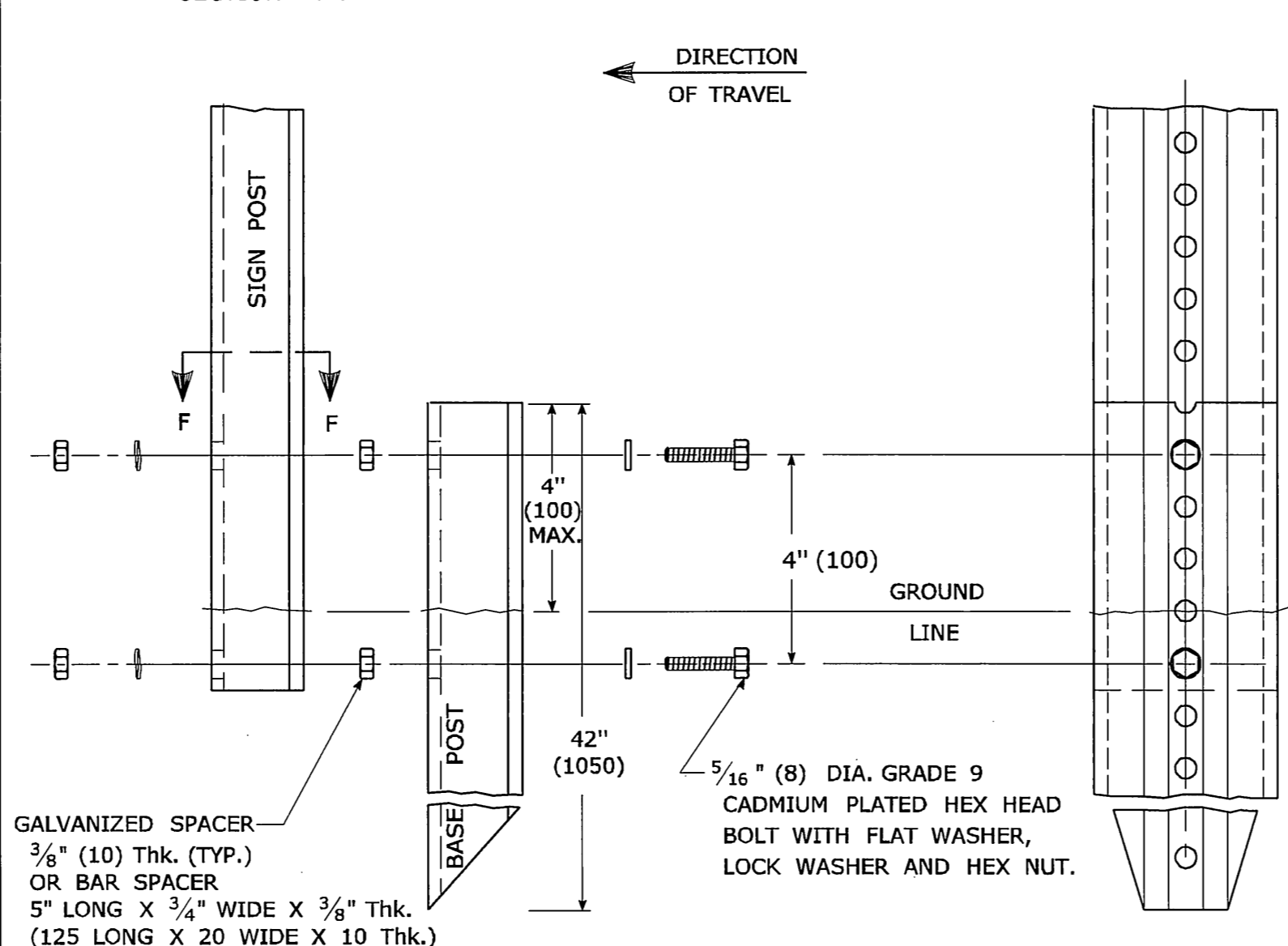
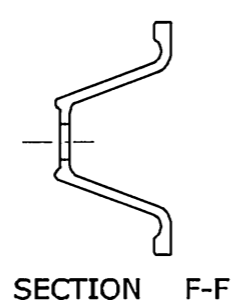


BOLTS - HEX HEAD, INTEGRAL FLANGE CONFORMING TO ASTM A354, SIZE IS 5/16" (8) - 18 UNC X 1 3/4" (44) GRADE BC FOR 3 LBS/FT (4.5kg/m) POSTS & 5/16" (8) - 18 UNC X 2" (50) GRADE BD FOR 4 LBS./FT (6.0 kg/m) POSTS.  
 NUTS - 5/16" (8) - 18 UNC HEX HEAD, INTEGRAL FLANGE CONFORMING TO ASTM A563, GRADE DH.  
 LOCKWASHERS - 3/8" (10) HEAVY DUTY EXTERNAL TYPE.



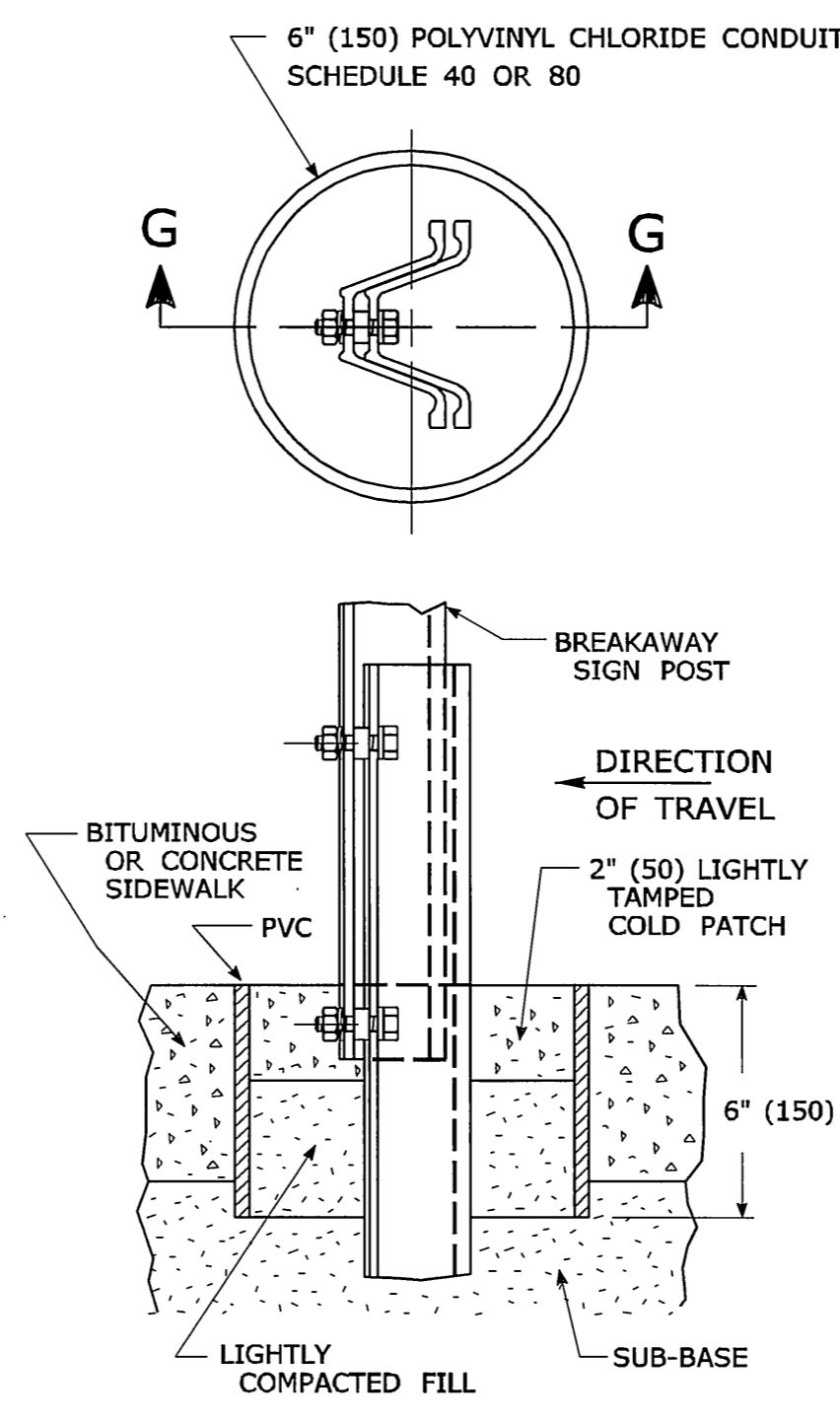
**BREAKAWAY TYPE II INSTALLATION**

FOR 3 & 4 LB. POSTS  
 (FOR 4.5 & 6.0 kg/m POSTS)

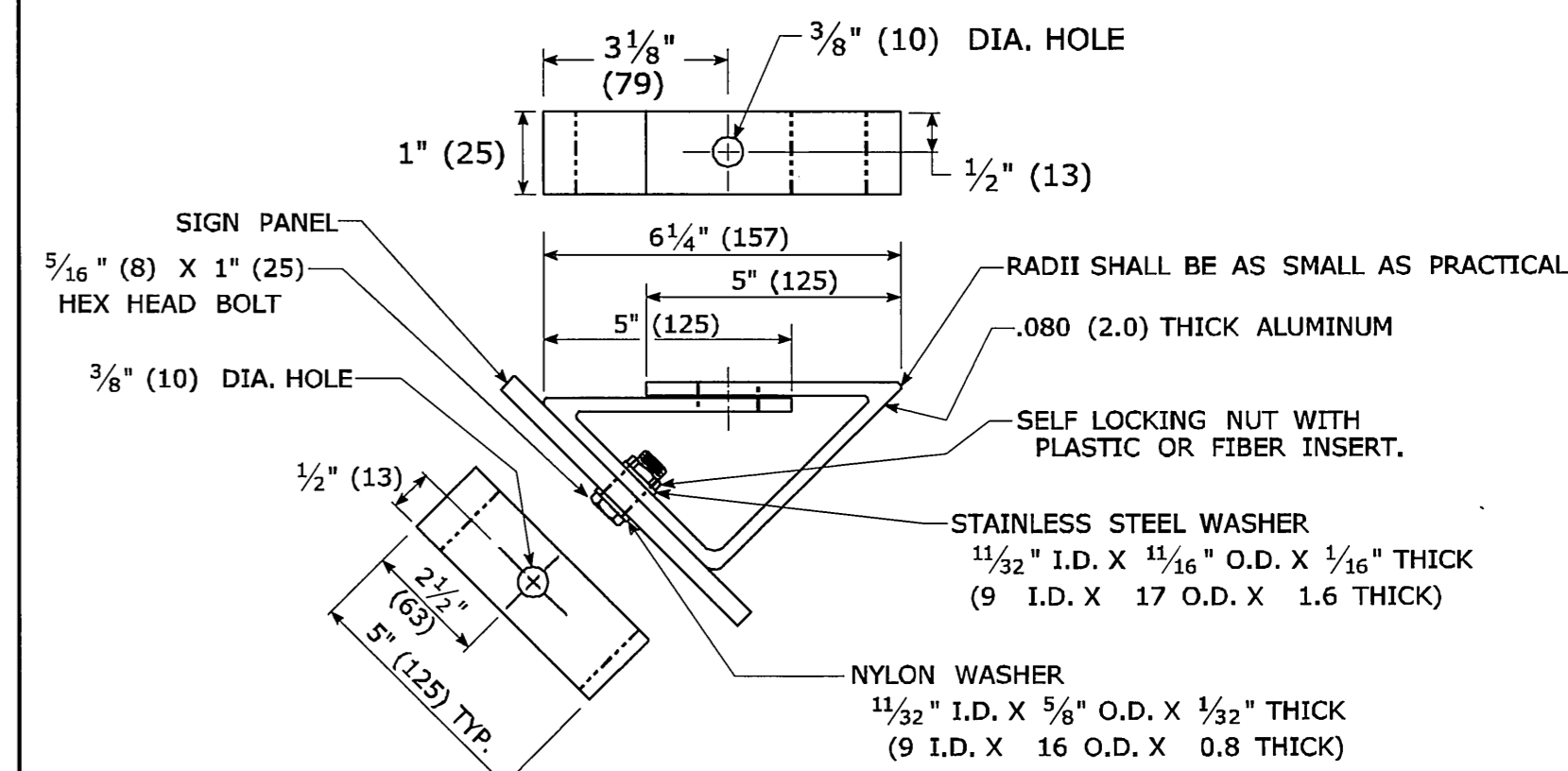


GALVANIZED SPACER - 3/8" (10) Thk. (TYP.) OR BAR SPACER - 5" LONG X 3/4" WIDE X 3/8" Thk. (125 LONG X 20 WIDE X 10 THK.)  
 5/16" (8) DIA. GRADE 9 CADMIUM PLATED HEX HEAD BOLT WITH FLAT WASHER, LOCK WASHER AND HEX NUT.

**TYPICAL SLEEVE FOR PAVED AREAS**



**45° SUBMOUNTING BRACKET**



REV.	DATE	MINOR REVISIONS.	REVISION DESCRIPTION
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: 3/22/2011

DIMENSIONS ARE IN ENGLISH (" ) & METRIC UNITS (mm).  
 METRIC DIMENSIONS ARE ROUNDED:  
 - OVER 1" TO NEAREST 5 mm  
 - UNDER 1" TO NEAREST 1 mm.

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

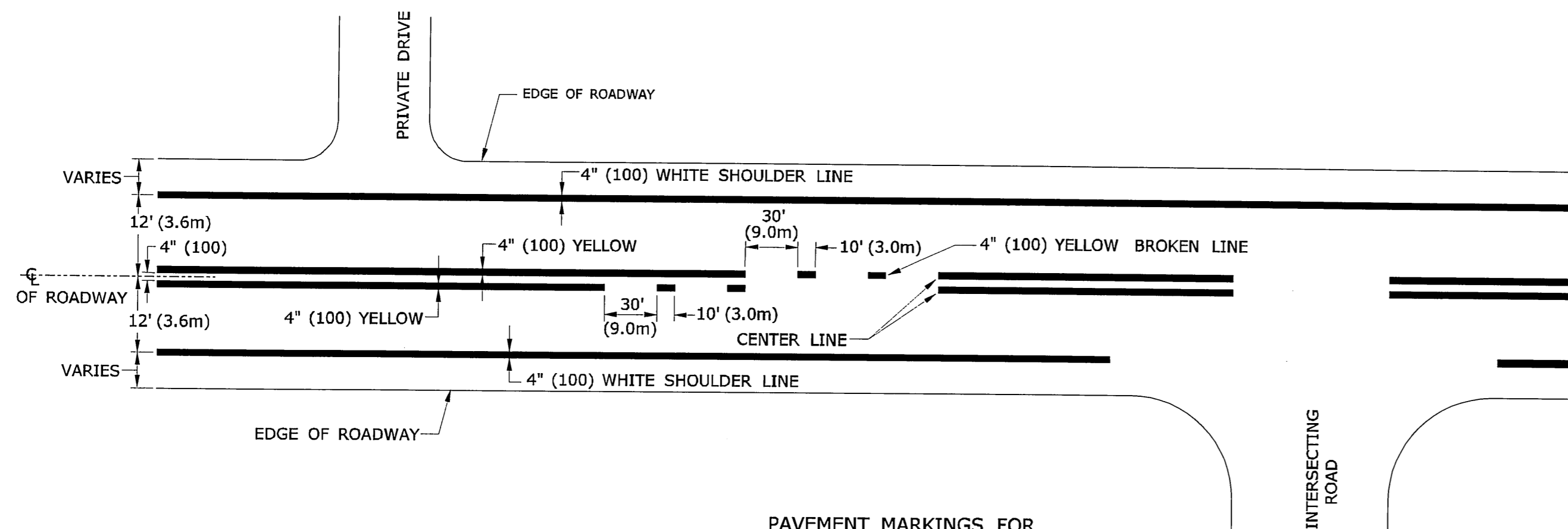
NOT TO SCALE

Filename: CTDOT\_TRAFFIC\_STD.dgn Model: TR-1208\_02

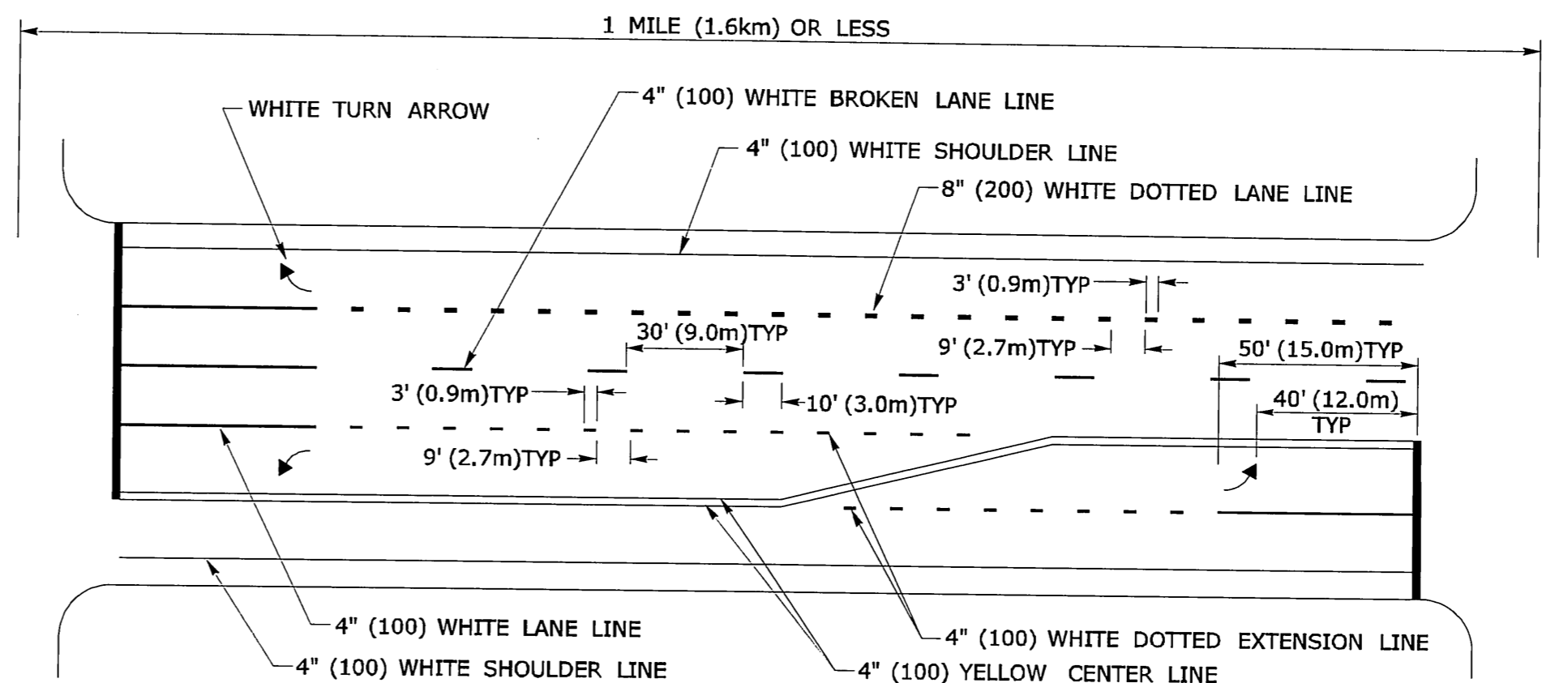
SUBMITTED BY: \_\_\_\_\_ NAME/DATE/TIME: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_ NAME/DATE/TIME: \_\_\_\_\_

**CTDOT**  
**STANDARD SHEET**  
**OFFICE OF ENGINEERING**

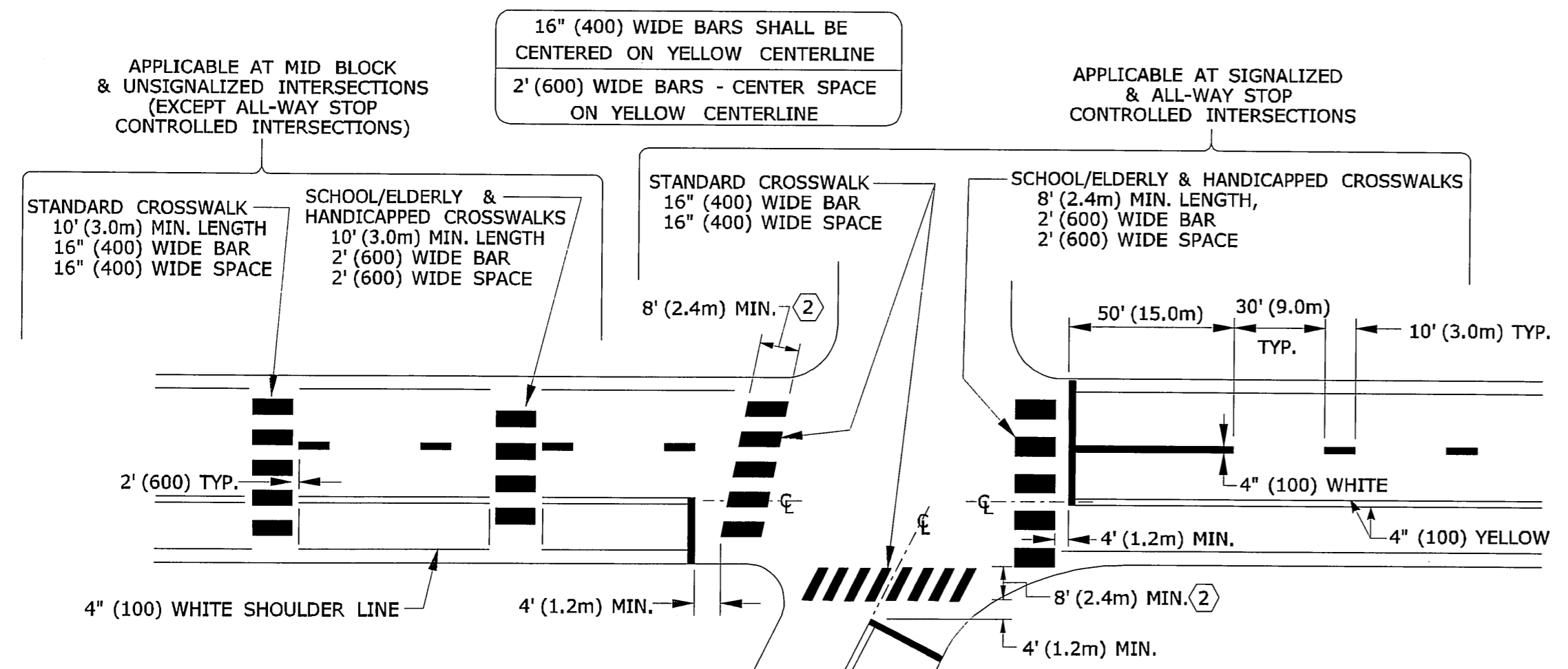
STANDARD SHEET TITLE: **METAL SIGN POSTS AND SIGN MOUNTING DETAILS**  
 STANDARD SHEET NO.: **TR-1208\_02**



PAVEMENT MARKINGS FOR CENTERLINE AND SHOULDER LINE

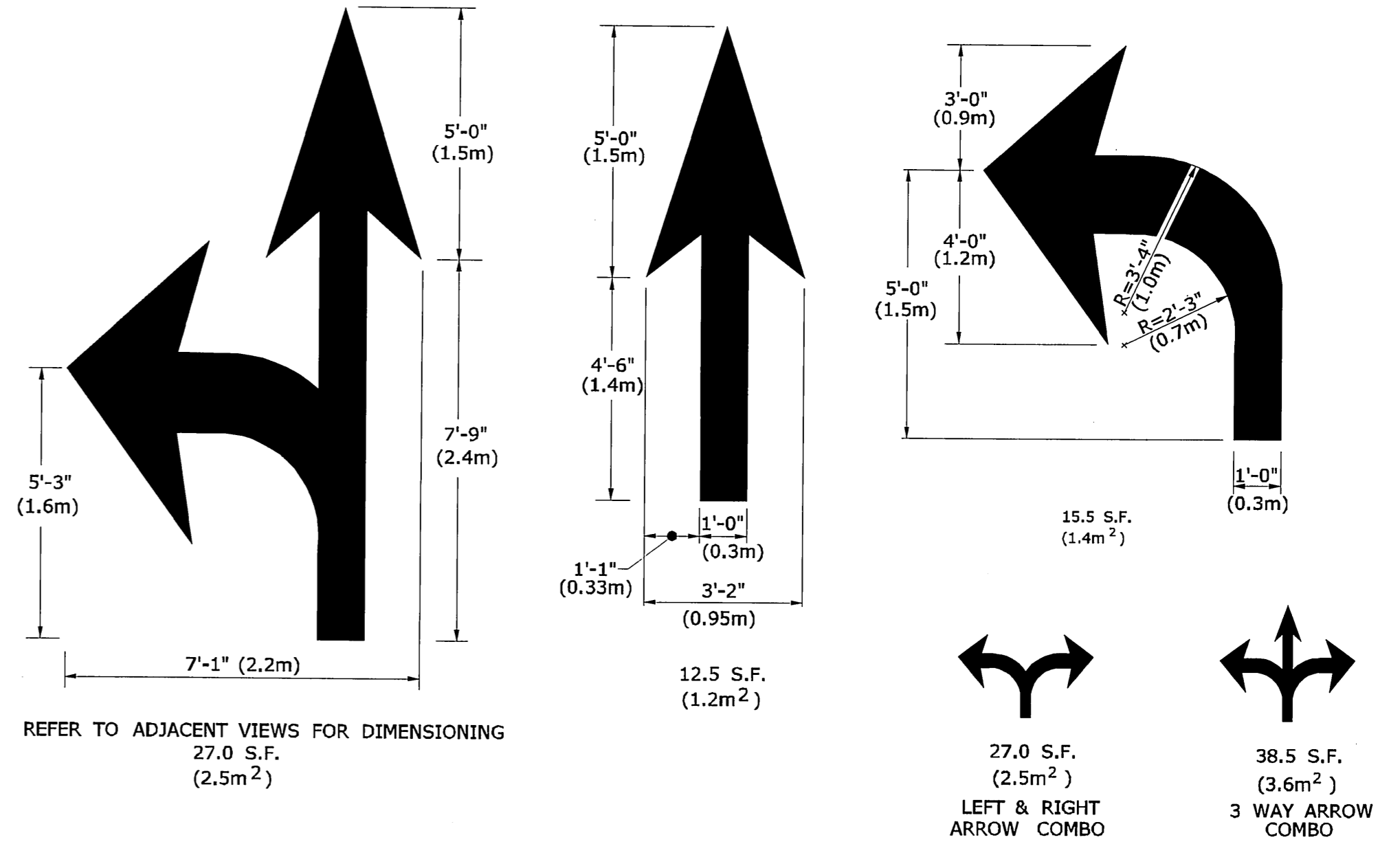


PAVEMENT MARKINGS FOR TURNING LANES

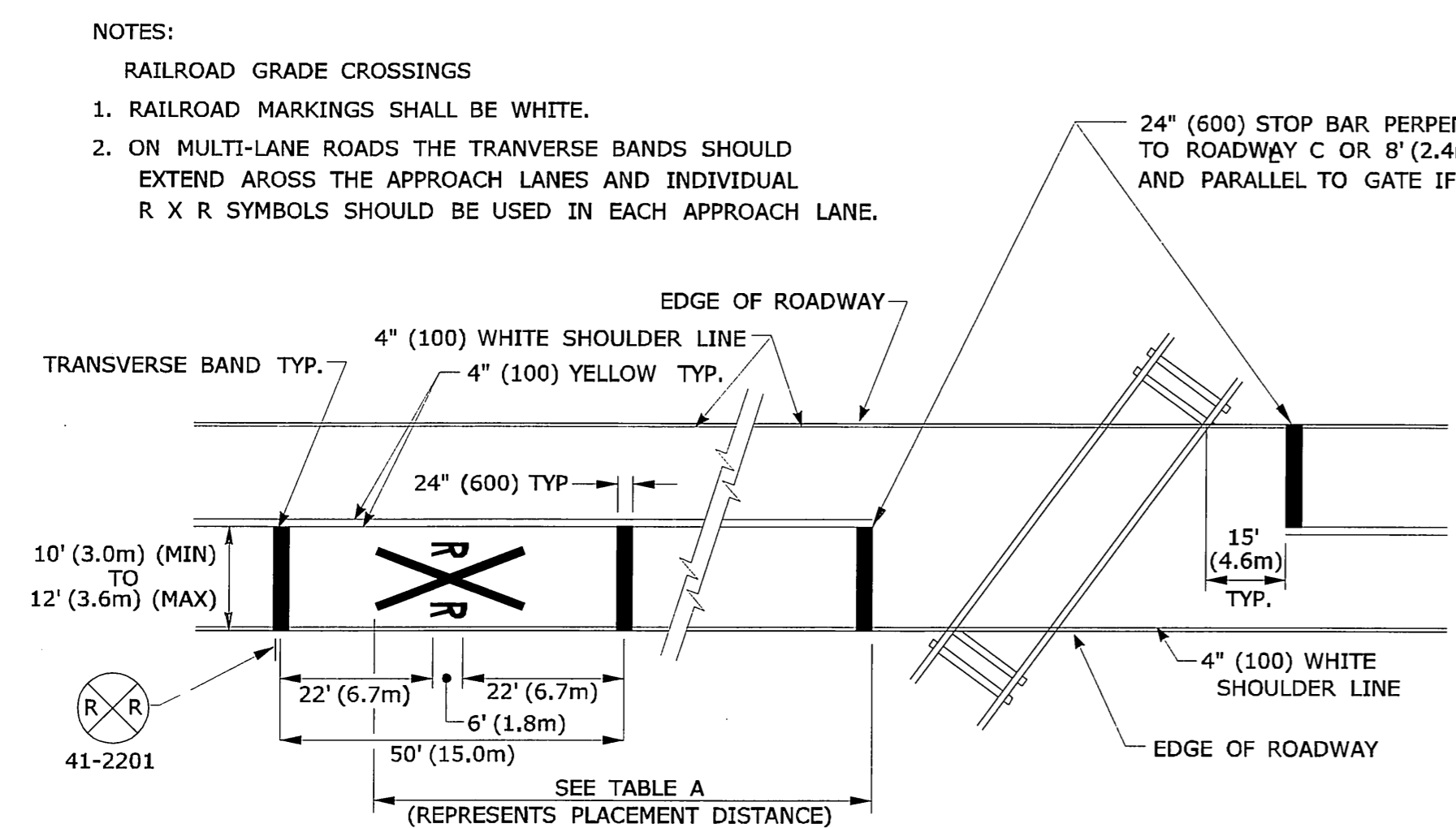


PAVEMENT MARKINGS FOR STOP BARS AND CROSSWALKS

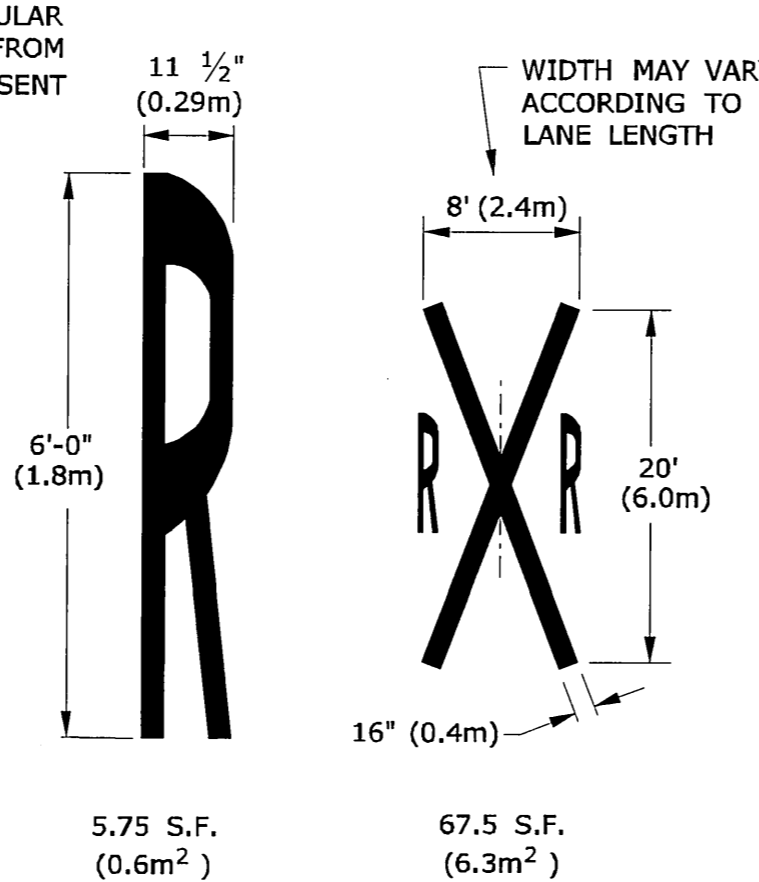
- NOTES:
- STOP-BARS
- STOP BARS SHALL BE WHITE.
  - STOP BARS SHALL BE 12" (300) MIN. UNLESS OTHERWISE NOTED ON PLANS.
  - STOP BARS TO BE MARKED A MINIMUM OF 4' (1.2m) IN ADVANCE OF NEAREST EDGE OF CROSSWALK.
  - IN ABSENCE OF MARKED CROSSWALK THE STOP BAR SHALL BE PLACED AT THE DESIRED STOPPING POINT, NO MORE THAN 30' (9.0m) LESS THAN 5' (1.5m) FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY AND 90° TO THE CENTERLINE OF ROADWAY.
  - THE STOP BAR SHALL ORDINARILY BE PLACED IN LINE WITH THE STOP SIGN, 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.
  - STOP BARS AND CENTERLINE (WHEN SIDE STREET WIDTHS ARE 16' (4.8m) OR MORE) ARE TO BE MARKED ON SIDE STREETS WITHIN THE LIMITS OF CONSTRUCTION UNLESS, OTHERWISE INDICATED, OR AS DIRECTED BY THE ENGINEER.
- CROSSWALKS
- CROSSWALK MARKINGS SHALL BE WHITE.
  - AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO  $\phi$  AND ENDS OF BARS TO BE PARALLEL. THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW.
  - SCRAMBLE WALKS TO BE MARKED WITH ONE 24" WIDE LINE ACROSS EACH APPROACH.
  - BARS SHALL NORMALLY BE NO CLOSER THAN 2' FROM CURB LINE/EDGE OF ROAD. WHERE EXCESS SPACE MAY DEVELOP THIS DISTANCE MAY BE DECREASED TO 1'.
  - ONLY FULL LENGTH BARS ARE TO BE INSTALLED AT CORNERS.



PAVEMENT ARROW DETAILS (WHITE)  
ARROWS SHALL BE CENTERED IN TRAVEL LANE

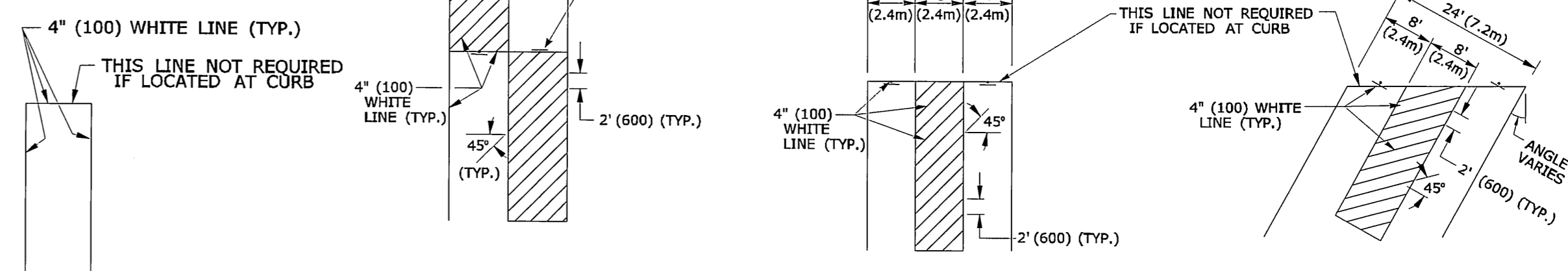


PAVEMENT MARKINGS FOR RAILROAD GRADE CROSSINGS



POSTED OR 85 PERCENTILE SPEED M.P.H.	DISTANCE FT. (m)
20	*
25	*
30	100 (30)
35	150 (46)
40	225 (69)
45	300 (91)
50	375 (114)
55	450 (137)
60	550 (168)
65	650 (198)

\* NO SUGGESTED MINIMUM DISTANCE, AT THESE SPEEDS, SIGN LOCATION DEPENDS ON PHYSICAL CONDITIONS AT SITE, HOWEVER SHOULD NOT BE LESS THAN 50' (15m).



STANDARD PARKING STALL  
PARKING STALLS FOR HANDICAPPED

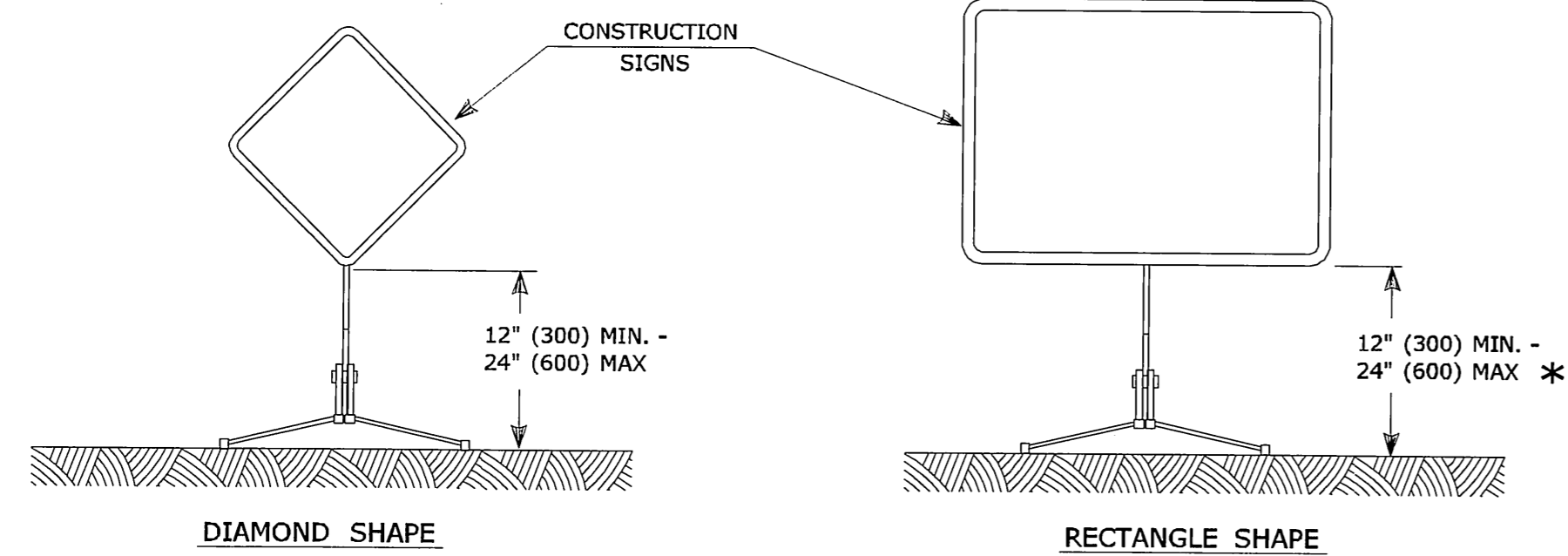
- NOTES:
- PAVEMENT MARKING
- FOR PAVEMENT MARKINGS ON A CLIMBING LANE SEE DETAIL "L" ON TRAFFIC STANDARD SHEET TR-1210-02 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS".
  - AREA OF PAVEMENT MARKINGS AS INDICATED IS APPROXIMATE.
  - EXIT RAMP PAVEMENT ARROW SHOULD BE BETWEEN THE GORE AND THE FIRST SET OF WRONG WAY SIGNS. THE EXACT LOCATION TO BE DETERMINED BY THE ENGINEER FOR THE OPTIMUM VISIBILITY (CONSIDER RAMP CURVATURE AND PROFILE).
  - EXIT RAMP PAVEMENT ARROW TO BE OMITTED IF LANE USE CONTROLS ARE USED, UNLESS OTHERWISE SPECIFIED.
  - RIGHT TURN PAVEMENT MARKINGS ARROWS ARE MIRROR IMAGE OF LEFT TURN PAVEMENT MARKING ARROWS.
  - SHARED AISLES MAY NOT BE USED WHERE CONNECTICUT BUILDING CODE GOVERNS

E5 - SERIES				G20 - SERIES				M4 - SERIES				R1 - SERIES				R9 & R11 - SERIES				W1 - SERIES				W3 - SERIES																																																																																															
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AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																				
16-S	10.0	48X30	80-1619	2																																																																																																																			
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																				
9.0	36	50-5934	1																																																																																																																				
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																				
5.0	30X24	80-9710	2																																																																																																																				
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																				
10.0	48X30	80-9080	2																																																																																																																				
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																				
14.0	48X42	31-1906	2																																																																																																																				
22.5	60X54	31-1907	2																																																																																																																				
30.0	72X60	31-1908	2																																																																																																																				
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																				
1.5	12X18	80-9402	1																																																																																																																				
5.0	24X30	80-9403	1																																																																																																																				
7.5	30X36	80-9404	1																																																																																																																				
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				W8-W9 - SERIES				W13 - SERIES				W20 - SERIES				W21 - SERIES				W22 - SERIES				STOP-SLOW PADDLE																																																																																																							
<p>(L) (R)</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>16.0</td><td>48</td><td>80-9918L</td><td>2</td></tr> <tr><td>16.0</td><td>48</td><td>80-9917R</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9918L	2	16.0	48	80-9917R	2	<p>W8-1</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>9.0</td><td>36</td><td>80-9901</td><td>1</td></tr> <tr><td>16.0</td><td>48</td><td>80-9902</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9901	1	16.0	48	80-9902	2	<p>W13-1</p> <p>SUBPLATE VARIABLE SPEED</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>2.25</td><td>18</td><td>80-9568</td><td>1</td></tr> <tr><td>9.0</td><td>36</td><td>80-9569</td><td>1</td></tr> <tr><td>4.0</td><td>24</td><td>80-9569</td><td>1</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.25	18	80-9568	1	9.0	36	80-9569	1	4.0	24	80-9569	1	<p>W20-1</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>6.25</td><td>30</td><td>80-9602</td><td>1</td></tr> <tr><td>9.0</td><td>36</td><td>80-9603</td><td>1</td></tr> <tr><td>16.0</td><td>48</td><td>80-9604</td><td>2</td></tr> </table>				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	<p>(L) (R)</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>9.0</td><td>36</td><td>80-9836</td><td>2</td></tr> <tr><td>16.0</td><td>48</td><td>80-9839</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9836	2	16.0	48	80-9839	2	<p>W21-6</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>9.0</td><td>36</td><td>80-9607</td><td>1</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9607	1	<p>W22-1</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>9.0</td><td>36</td><td>80-9620</td><td>1</td></tr> <tr><td>16.0</td><td>48</td><td>80-9625</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9620	1	16.0	48	80-9625	2	<p>STOP-SLOW PADDLE</p> <p>SIDE A * STOP * SIDE B * SLOW *</p> <p>SIDE A BACKGROUND - RED COPY &amp; BORDER - WHITE SIDE B BACKGROUND - ORANGE COPY &amp; BORDER - BLACK PLAIN</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>9.0</td><td>36</td><td>41-0820</td><td></td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	41-0820	
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																												
16.0	48	80-9918L	2																																																																																																																												
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9.0	36	80-9901	1																																																																																																																												
16.0	48	80-9902	2																																																																																																																												
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AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																												
9.0	36	80-9836	2																																																																																																																												
16.0	48	80-9839	2																																																																																																																												
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																												
9.0	36	80-9607	1																																																																																																																												
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																												
9.0	36	80-9620	1																																																																																																																												
16.0	48	80-9625	2																																																																																																																												
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9.0	36	41-0820																																																																																																																													
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AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																												
16.0	48	80-9945	2																																																																																																																												
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16.0	48	80-9837	2																																																																																																																												
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AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																												
15.0	48	80-9910L	2																																																																																																																												
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16.0	48	80-9847	2																																																																																																																												
16.0	48	80-9848	2																																																																																																																												
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2.0	24X12	80-9912	1																																																																																																																												
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AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																												
2.51	19	80-9950	PADDLE																																																																																																																												

METRIC CONVERSION CHART (1" = 25mm)

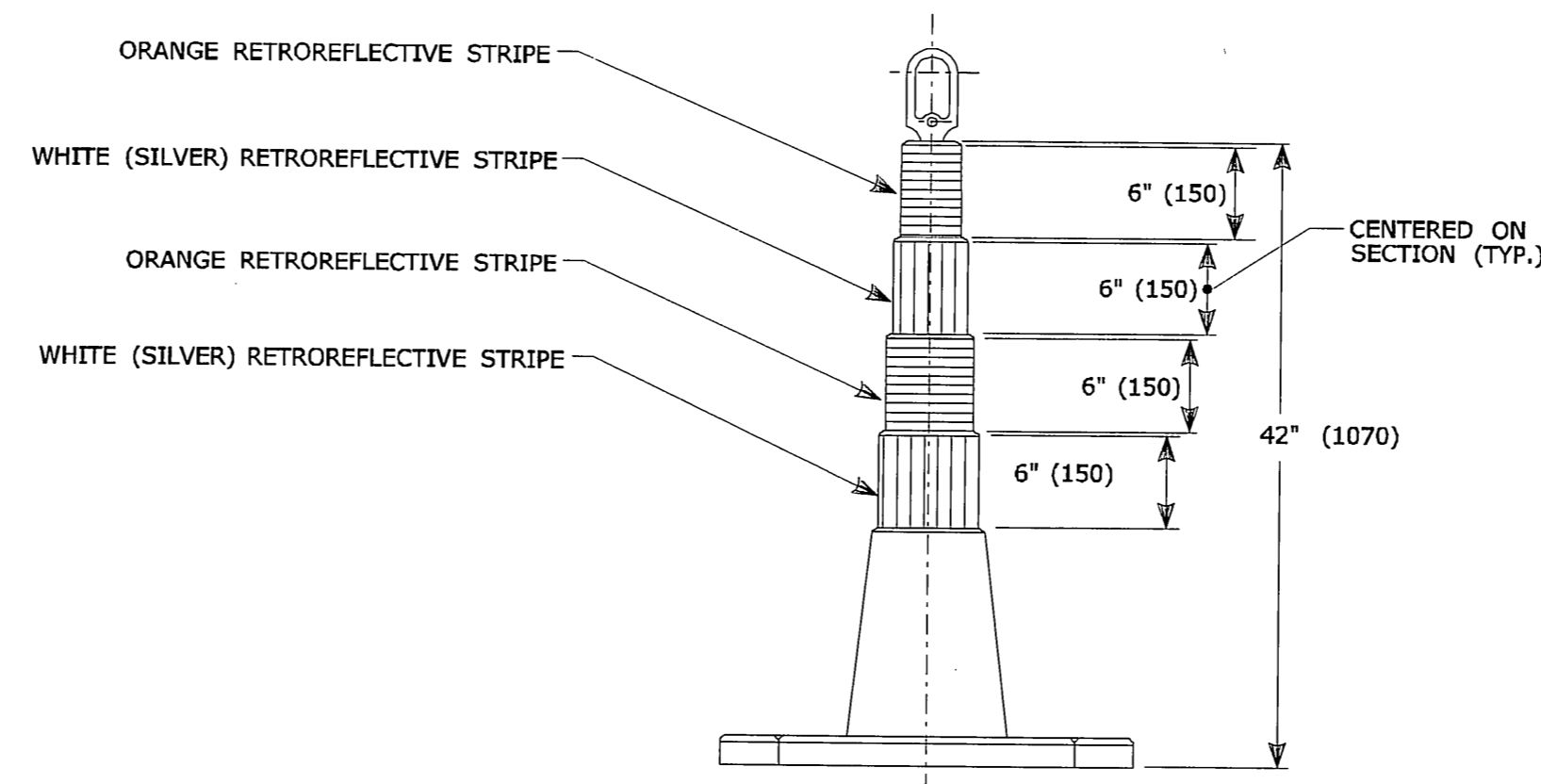
ENGLISH	METRIC	ENGLISH	METRIC
12"	300	60"	1500
18"	450	66"	1650
24"	600	72"	1800
30"	750	78"	1950
36"	900	84"	2100
42"	1050	90"	2250
48"	1200	96"	2400
54"	1350		



**CONSTRUCTION SIGNS**

**NOTES FOR PORTABLE SIGN SUPPORTS:**

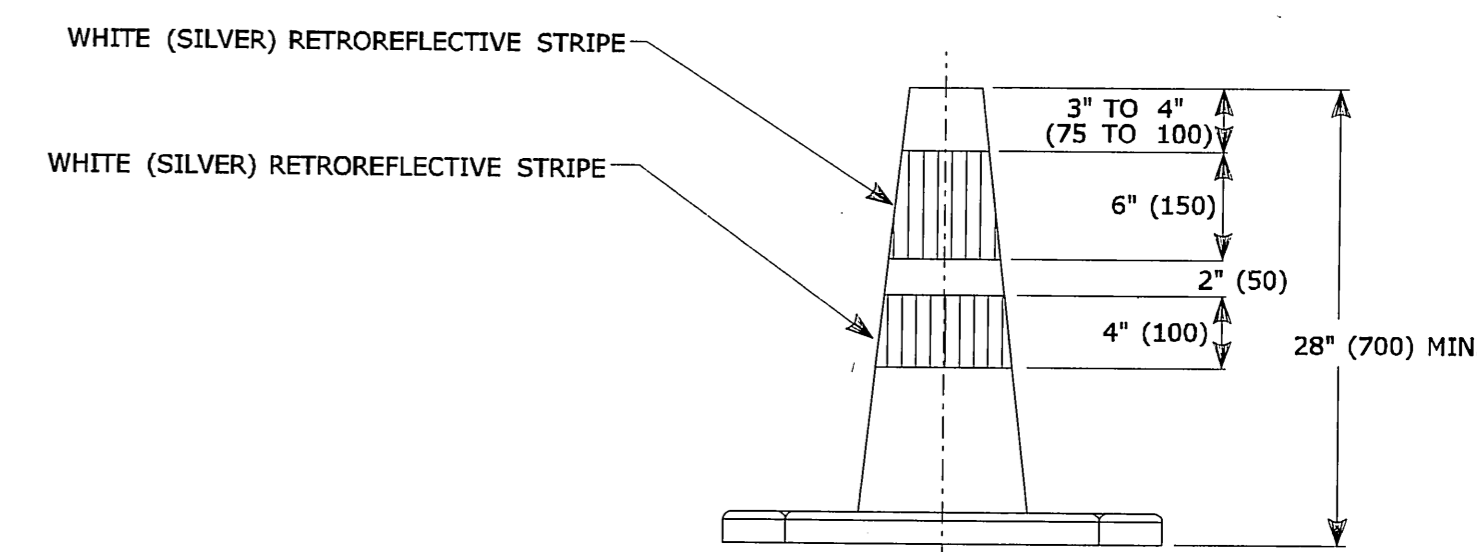
- SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
  - MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" (300) AND A MAXIMUM OF 24" (600). SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED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



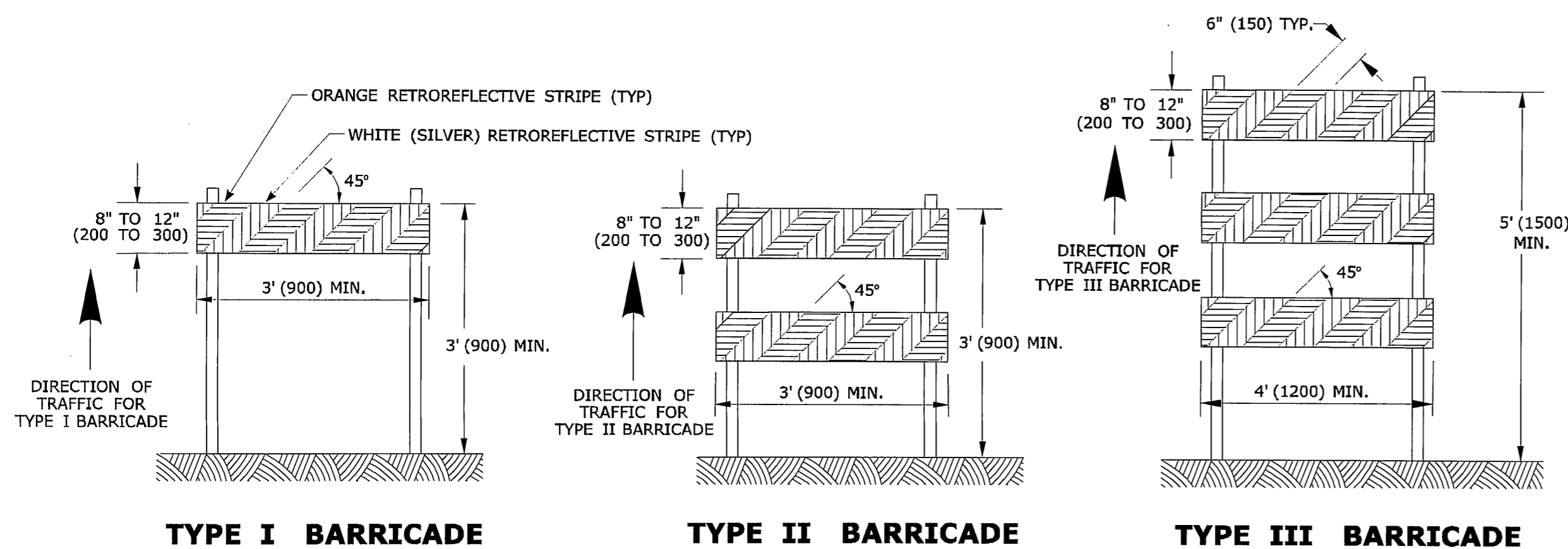
**42" (1m) TRAFFIC CONE**

**NOTES:**

- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.



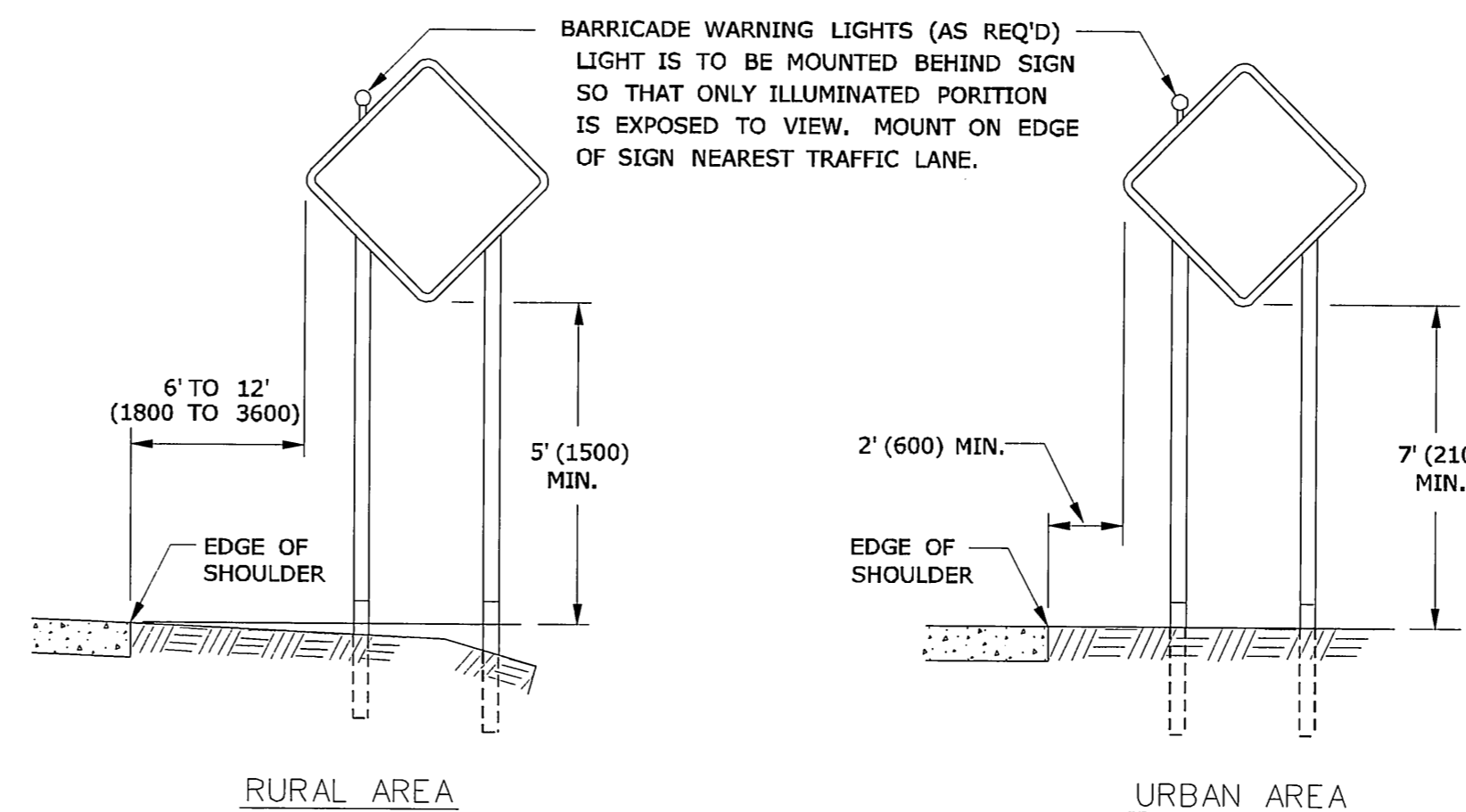
**TRAFFIC CONE**



**CONSTRUCTION BARRICADES**

**NOTES:**

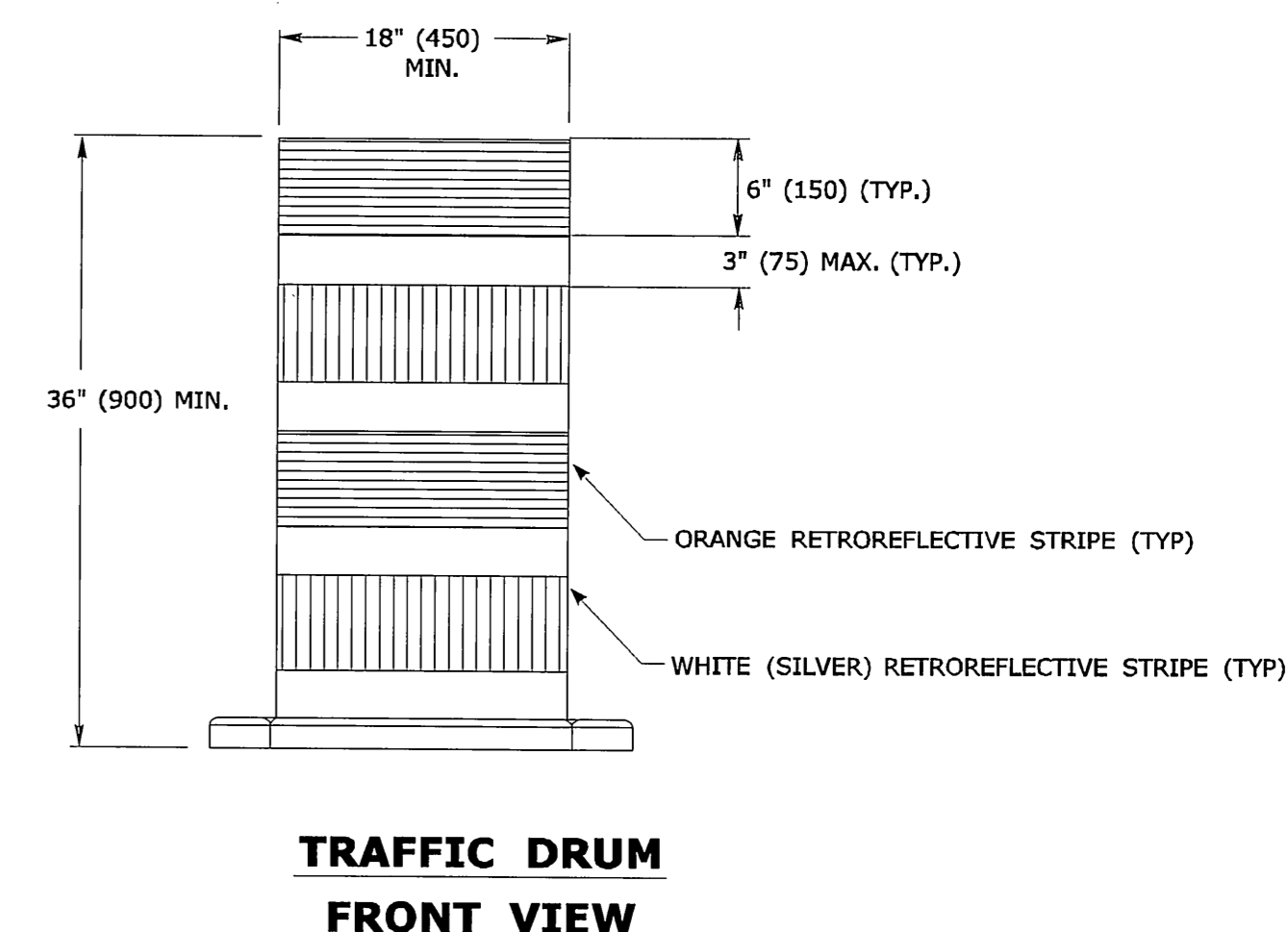
- CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
- MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" (150) WIDE STRIPES SHALL BE USED.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. RAILS FOR TYPE I AND TYPE II BARRICADES SHALL BE RETROREFLECTIVE ON BOTH SIDES. WHERE TRAFFIC PASSES ONLY IN ONE DIRECTION OF TRAVEL, ONLY THE SIDE FACING TRAFFIC SHALL BE RETROREFLECTIVE.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
- 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.  
SEE TYPICAL SHEETS:  
"TYPICAL SIGN SUPPORT AND SIGN PLACEMENT DETAILS-GORE EXIT SIGN"  
"TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS"



**TRAFFIC DRUM  
FRONT VIEW**

**NOTES:**

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

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.				SUBMITTED BY: NAME/DATE/TIME:		STANDARD SHEET TITLE:		STANDARD SHEET NO.:	
NOT TO SCALE		FILENAME: CTDOT_TRAFFIC_STD.dgn MODEL: TR-1220_02		APPROVED BY: NAME/DATE/TIME:		CTDOT STANDARD SHEET		CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES		TR-1220_02	
1 2-2011 MINOR REVISIONS.		PLOTTED DATE: 2/16/2011		OFFICE OF ENGINEERING		OFFICE OF ENGINEERING		OFFICE OF ENGINEERING		OFFICE OF ENGINEERING	