

SCALE: 1" = 800'

SITE LOCATION PLAN

TOWN OF PLAINVILLE PLANS FOR RECONSTRUCTION OF TOWN LINE ROAD

IN THE TOWN OF
PLAINVILLE,
CONNECTICUT

FROM SOUTH WASHINGTON STREET,
A.K.A. CT. RTE. 177 TO RED STONE HILL.

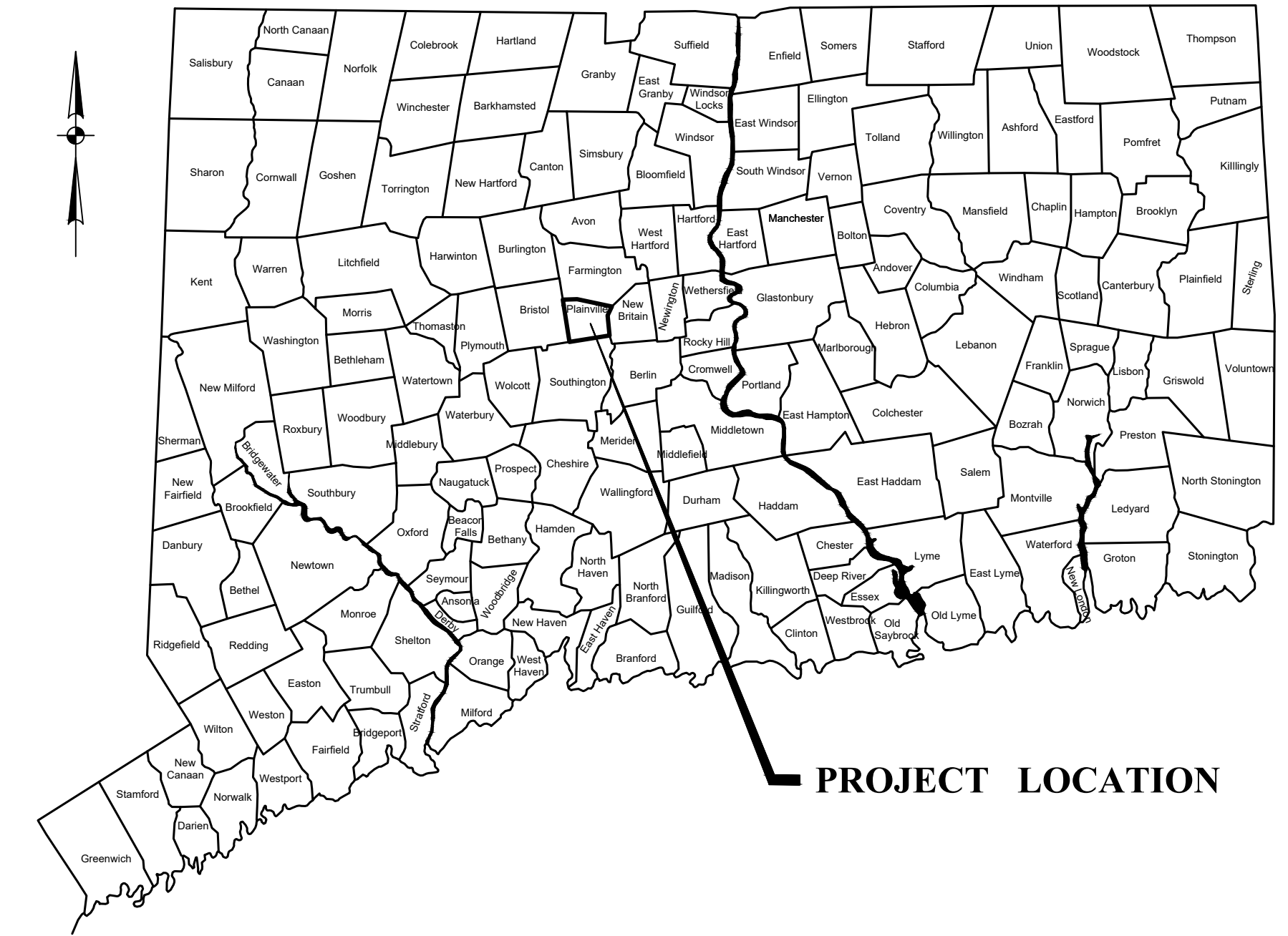
**STARTING AT STA. 0+27
ENDING AT STA. 23+35**

DESIGN SCALE - PLANS: 1" = 40' OR AS NOTED

JANUARY 2021

LOCIP PROJECT NO. L109-0003

CONTRACT 2020-08E



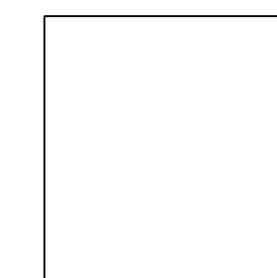
TOWN NO. 109
PROJECT NO. 171

THE STANDARD SPECIFICATIONS SHALL BE THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 817, 2016, INCLUDING ALL SUPPLEMENTS, THERETO JULY 2019.

NOTES:

1. COORDINATES SHOWN SHALL HEREON REFER TO THE CONNECTICUT COORDINATE SYSTEM (N.A.D. 1927)
2. ALL ELEVATIONS ON THIS PROJECT ARE BASED ON N.G.V.D. 1929.
3. ALL UTILITY INFORMATION AND DATA SHOWN OR INDICATED ON THE CONTRACT DOCUMENTS SHOULD NOT BE CONSTRUED AS ACCURATE OR COMPLETE AND THE CONTRACTOR SHALL VERIFY ALL LOCATIONS PRIOR TO CONSTRUCTION.

| LIST OF DRAWINGS | | | |
|------------------|---|-----------|--------------------------------------|
| SHEET NO. | TITLE | SHEET NO. | TOWN OF PLAINVILLE STANDARD DRAWINGS |
| 1 | TITLE SHEET | 10 | GABION DETAIL SHEET |
| 2 | TYPICAL CROSS SECTIONS | 11 | TYPICAL STORM DRAINAGE DETAILS |
| 3 | TYPICAL CROSS SECTIONS | 12 | TYPICAL SANITARY SEWER DETAILS |
| 4 | TYPICAL CROSS SECTIONS | 13 | BITUMINOUS CONCRETE CONSTRUCTION |
| 5 | PLAN AND PROFILE SHEET (STATION 0+0 TO 8+50) | | |
| 6 | PLAN AND PROFILE SHEET (STATION 8+50 TO 16+10) | | |
| 7 | PLAN AND PROFILE SHEET (STATION 16+10 TO 23+35) | | |
| 8 | CULVERT REPLACEMENT & PROP. DRAINAGE EASEMENT | | |
| 9 | GABION LOCATION SHEET | | |
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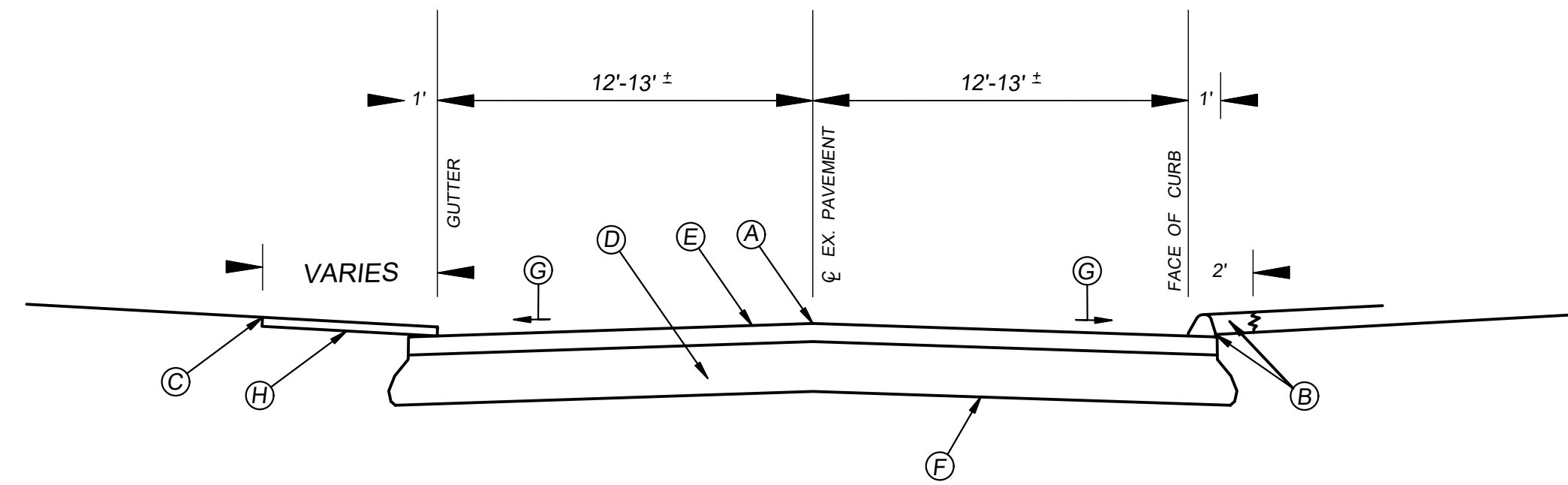
DESIGNED BY: **THE TOWN OF PLAINVILLE
ENGINEERING DEPARTMENT**

PER _____
JOHN R. BOSSI
DIRECTOR OF TECHNICAL SERVICES

DATE: _____

CONN. P.E. NO. **16404**

APPROVED BY: _____
ROBERT E. LEE
TOWN MANAGER



LEGEND

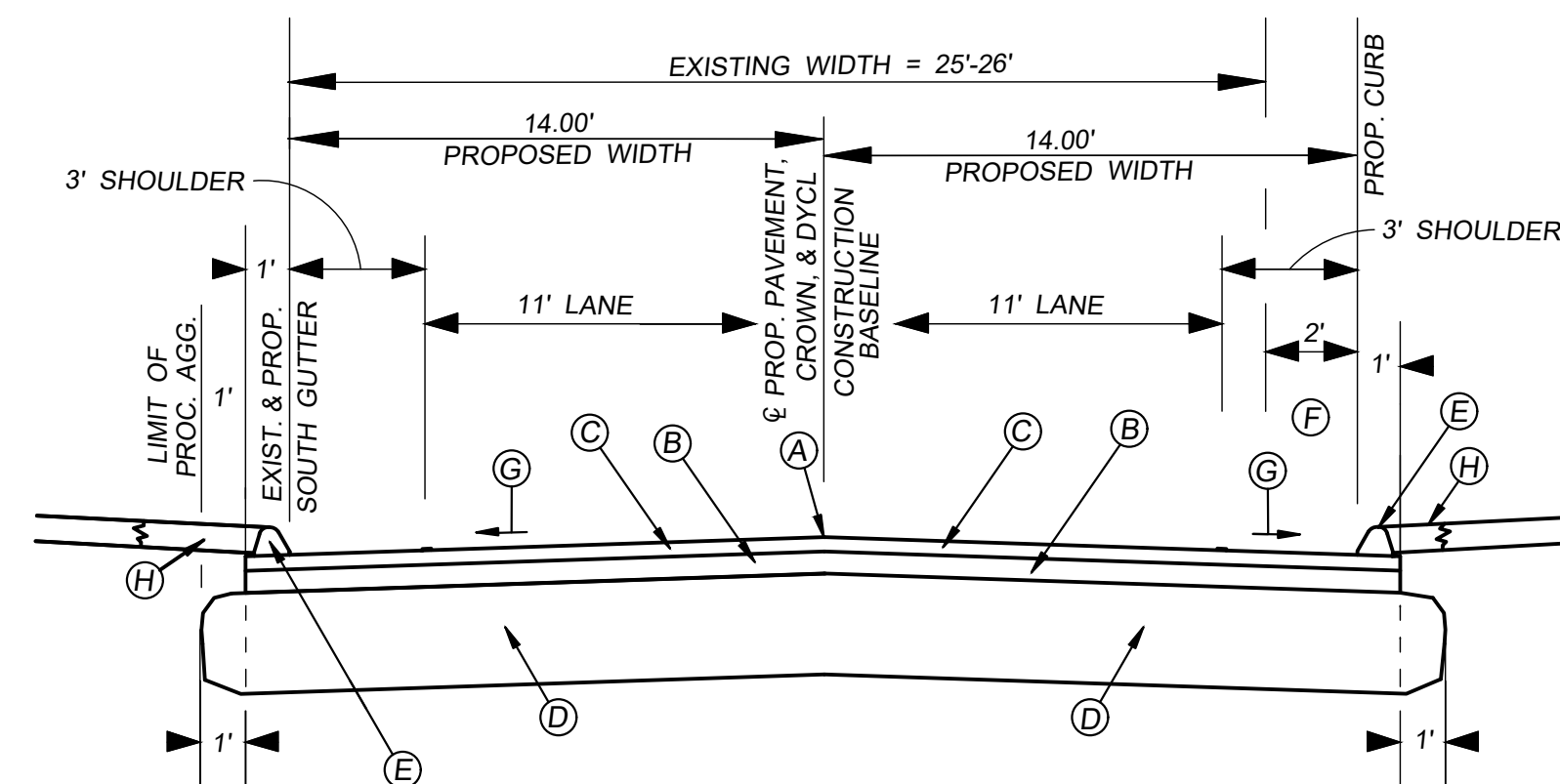
- Ⓐ EXISTING CENTERLINE GRADE
- Ⓑ REMOVE EXISTING BIT. CURB AND TOPSOIL
- Ⓒ SAW CUT EXISTING DRIVEWAYS PER PLAN.
- Ⓓ REMOVE EXISTING BASE MATERIAL
- Ⓔ REMOVE EXISTING BITUMINOUS CONCRETE
- Ⓕ COMPACTED SUBGRADE
- Ⓖ CROSS SLOPE OF 3/8" / FT.
- Ⓗ REMOVE EXISTING DRIVEWAY APRON

**TOWN LINE ROAD
EXISTING ROADWAY**

STA. 0+27 - STA. 21+06

AFTER 21+06, THE EXISTING WIDTH VARIES ON BOTH SIDES OF BASELINE. THE EXISTING ROAD STRUCTURE IS ASSUMED CONSISTENT WITH THE TYPICAL SECTION.

NOT TO SCALE



LEGEND

- Ⓐ POINT OF APPLICATION OF GRADE
- Ⓑ INSTALL 3" BITUMINOUS CONCRETE (HMA S1.0 - LEVEL 3)
- Ⓒ INSTALL 2" BITUMINOUS CONCRETE (HMA S0.5 - LEVEL 3)
- Ⓓ INSTALL 12" PROCESSED AGGREGATE BASE
- Ⓔ INSTALL 6" BITUMINOUS CONCRETE LIP CURB
- Ⓕ WIDEN NORTH EDGE OF ROAD APPROXIMATELY 2'
- Ⓖ CROSS SLOPE 2%
- Ⓗ LAWN RESTORATION

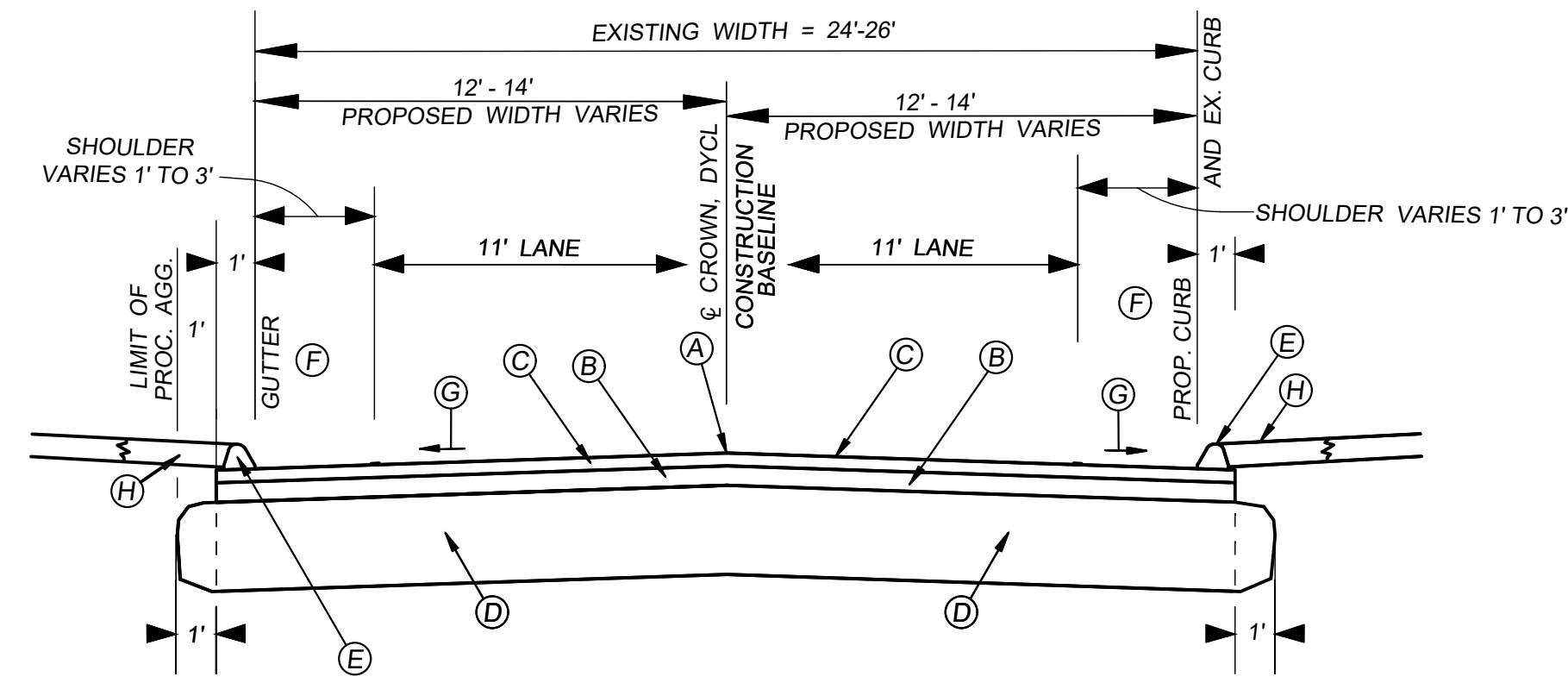
**TOWN LINE ROAD
RECONSTRUCTION**

STA. 0+27 - STA. 13+55

NOT TO SCALE

TYPICAL SECTIONS ARE FACING DOWN STATION

| | | | | | | | | | | | | |
|---|--------------|-----------|--|-------------------------|----------------------------------|-------------|--------------------|---|---------------------------|-----------|-----------|-----------|
| REVISIONS | | REVISIONS | | TOWN LINE ROAD | RECONSTRUCTION OF TOWN LINE ROAD | | FIELD BOOK: 96 | DWG. NO. <small>TL Rd Typical Cross Section</small> | DEPARTMENT OF ENGINEERING | | | |
| REVISED PROPOSED BIT. CONC. TO 2" HMA S0.5 AND 3" HMA S1.0. | AUG. 4, 2020 | | | | DRAWN BY: M.R.P. | CHECKED BY: | DESIGNED BY: | SCALE: AS NOTED | TOWN OF PLAINVILLE | | | |
| REVISED PER PRELIMINARY DESIGN SUBMISSION REVIEW COMMENTS | NOV. 4, 2020 | | | TYPICAL SECTIONS | DATE: MAR. 21, 2019 | DATE: | DATE: | PLAINVILLE, CONNECTICUT | | | | |
| | | | | | F.H.W.A. REGION NO. 1 | STATE CT | TOWN(S) PLAINVILLE | PROJ. NO. | PROJ. NO. | YEAR 2019 | ROUTE NO. | SHEET NO. |



LEGEND

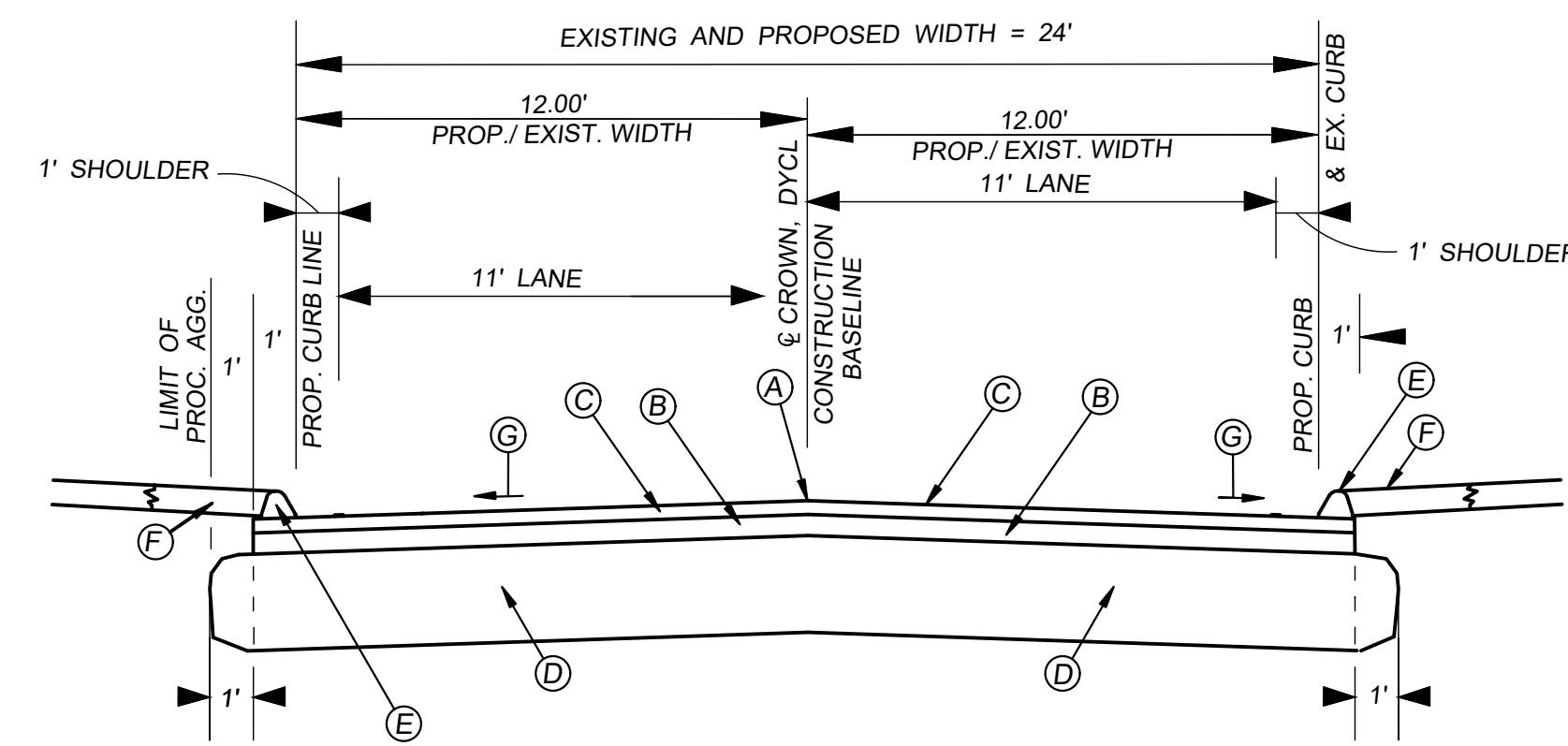
- Ⓐ POINT OF APPLICATION OF GRADE
- Ⓑ INSTALL 3" BITUMINOUS CONCRETE (HMA S1.0 - LEVEL 3)
- Ⓒ INSTALL 2" BITUMINOUS CONCRETE (HMA S0.5 - LEVEL 3)
- Ⓓ INSTALL 12" PROCESSED AGGREGATE BASE
- Ⓔ INSTALL 6" BITUMINOUS CONCRETE LIP CURB
- Ⓕ TAPER OF SHOULDER (VARIES 1' - 3')
- Ⓖ CROSS SLOPE 2%.
- Ⓗ LAWN RESTORATION

**TOWN LINE ROAD
RECONSTRUCTION**

TAPER OF CURB LINES

STA. 13+55 - STA. 16+10

NOT TO SCALE



LEGEND

- Ⓐ POINT OF APPLICATION OF GRADE
- Ⓑ INSTALL 3" BITUMINOUS CONCRETE (HMA S1.0 - LEVEL 3)
- Ⓒ INSTALL 2" BITUMINOUS CONCRETE (HMA S0.5 - LEVEL 3)
- Ⓓ INSTALL 12" PROCESSED AGGREGATE BASE
- Ⓔ INSTALL 6" BITUMINOUS CONCRETE LIP CURB
- Ⓕ LAWN RESTORATION
- Ⓖ CROSS SLOPE 2%

**TOWN LINE ROAD
RECONSTRUCTION**

STA. 16+10 - STA. 21+15

NOT TO SCALE

TYPICAL SECTIONS ARE FACING DOWN STATION

| | | | | | | | | | | | | |
|---|---------------|-----------|--|--|----------------------------------|-------------|--------------------|---|---------------------------|-----------|-----------|-------------|
| REVISIONS | | REVISIONS | | TOWN LINE ROAD TYPICAL SECTIONS | RECONSTRUCTION OF TOWN LINE ROAD | | FIELD BOOK: 96 | DWG. NO. <small>TL Rd Typical Cross Section</small> | DEPARTMENT OF ENGINEERING | | | |
| REVIEW WITH MINOR REVISIONS, PROJECT NO. | JULY 16, 2020 | | | | DRAWN BY: M.R.P. | CHECKED BY: | DESIGNED BY: | SCALE: AS NOTED | TOWN OF PLAINVILLE | | | |
| REVISED PROPOSED BIT. CONC. TO 2" HMA S0.5 AND 3" HMA S1.0. | AUG. 4, 2020 | | | | DATE: MAR. 21, 2019 | DATE: | DATE: | PLAINVILLE, CONNECTICUT | | | | |
| REVISED PER PRELIMINARY DESIGN SUBMISSION REVIEW COMMENTS | NOV. 4, 2020 | | | | F.H.W.A. REGION NO. 1 | STATE CT | TOWN(S) PLAINVILLE | PROJ. NO. 2020-08E | PROJ. NO. | YEAR 2021 | ROUTE NO. | SHEET NO. 3 |

METHOD I - NOTCHED WEDGE JOINT:

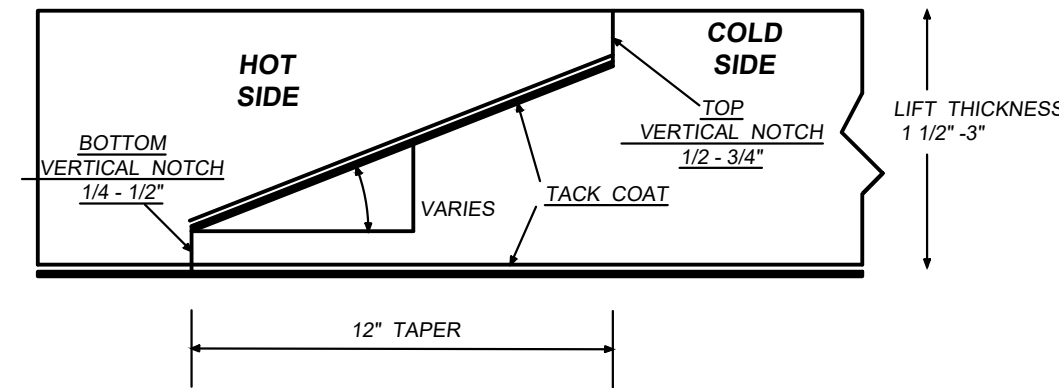
A NOTCHED WEDGE JOINT SHALL BE CONSTRUCTED AS SHOWN IN FIGURE 4.06-1 USING A DEVICE THAT IS ATTACHED TO THE PAVER SCREED AND IS CAPABLE OF INDEPENDENTLY ADJUSTING THE TOP AND BOTTOM VERTICAL NOTCHES. THE DEVICE SHALL HAVE AN INTEGRATED VIBRATORY SYSTEM. THE TOP VERTICAL NOTCH MUST BE LOCATED AT THE CENTERLINE OR LANE LINE IN THE FINAL LIFT. THE REQUIREMENT FOR PAVING FULL WIDTH "CURB TO CURB" AS DESCRIBED IN METHOD II MAY BE WAIVED IF ADDRESSED IN THE QC PLAN AND APPROVED BY THE ENGINEER.

THE TAPER PORTION OF THE WEDGE JOINT SHALL BE EVENLY COMPACTED USING EQUIPMENT OTHER THAN THE PAVER OR NOTCH WEDGE JOINT DEVICE. THE COMPACTION DEVICE SHALL BE THE SAME WIDTH AS THE TAPER AND NOT REDUCE THE ANGLE OF THE WEDGE OR RAVEL THE TOP NOTCH OF THE JOINT DURING COMPACTION.

WHEN PLACED ON PAVED SURFACES, THE AREA BELOW THE SLOPED SECTION OF THE JOINT SHALL BE TREATED WITH TACK COAT. THE TOP SURFACE OF THE SLOPED SECTION OF THE JOINT SHALL BE TREATED WITH TACK COAT PRIOR TO PLACING THE COMPLETING PASS.

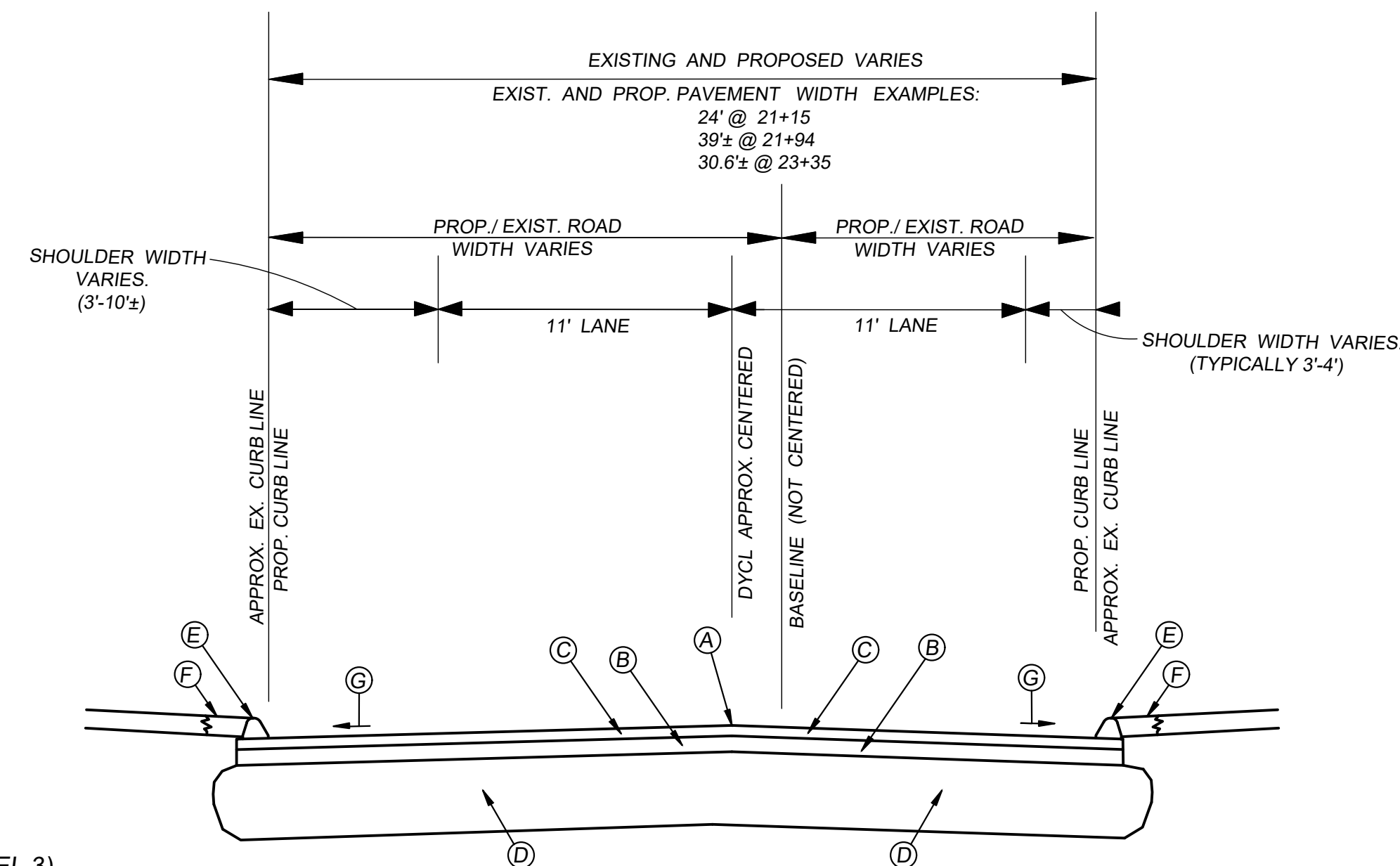
THE TAPER PORTION OF THE WEDGE JOINT SHALL NOT BE EXPOSED TO TRAFFIC FOR MORE THAN 5 CALENDER DAYS.

FIGURE 4.06-1: NOTCHED WEDGE JOINT (NOT TO SCALE)



ANY EXPOSED WEDGE JOINT MUST BE LOCATED TO ALLOW FOR FREE DRAINING OF WATER FROM THE ROAD SURFACE. THE ENGINEER RESERVES THE RIGHT TO DEFINE THE PAVING LIMITS WHEN USING A WEDGE JOINT THAT WILL BE EXPOSED TO TRAFFIC.

IF METHOD I CANNOT BE USED ON THOSE LIFTS WHICH ARE 1 1/2 INCHES TO 3 INCHES, METHOD III MAY BE SUBSTITUTED ACCORDING TO THE REQUIREMENTS FOR "METHOD III - BUTT JOINT WITH HOT POURED RUBBERIZED ASPHALT TREATMENT."



LEGEND

- (A) POINT OF APPLICATION OF GRADE
- (B) INSTALL 3" BITUMINOUS CONCRETE (HMA S1.0)- LEVEL 3)
- (C) INSTALL 2" BITUMINOUS CONCRETE (HMA S0.5 - LEVEL 3)
- (D) INSTALL 12" PROCESSED AGGREGATE BASE
- (E) INSTALL 6" BITUMINOUS CONCRETE LIP CURB
- (F) LAWN RESTORATION
- (G) CROSS SLOPE OF 3/8" / FT. TO REMAIN

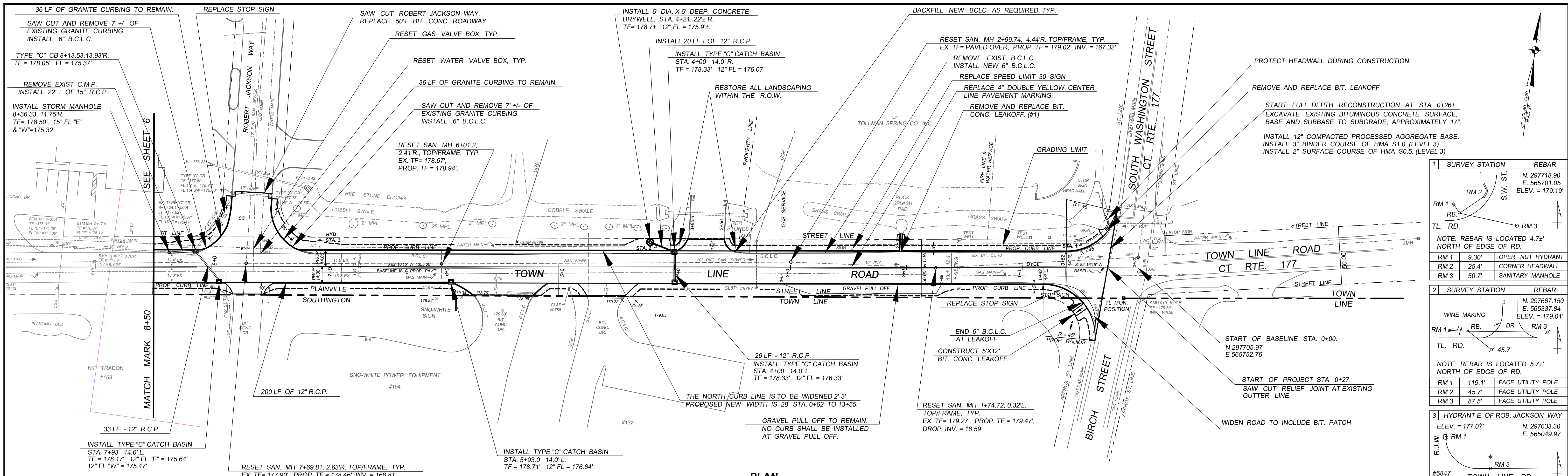
**TOWN LINE ROAD
RECONSTRUCTION**

STA. 21+15 - STA. 23+35

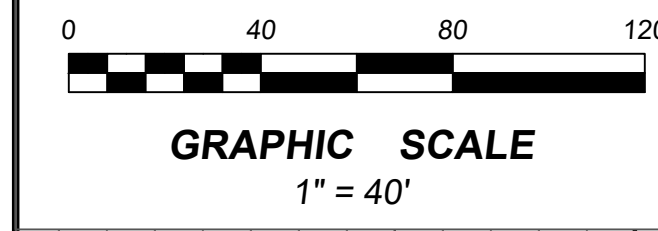
NOT TO SCALE

TYPICAL SECTIONS ARE FACING DOWN STATION

| | | | | | | | | | | | | |
|---|--|---------------|--|--|----------------------------------|-------------|--------------------|---|---------------------------|-----------|-----------|-----------|
| REVISIONS | | REVISIONS | | TOWN LINE ROAD TYPICAL SECTIONS | RECONSTRUCTION OF TOWN LINE ROAD | | FIELD BOOK: 96 | DWG. NO. <small>TL Rd Typical Cross Section</small> | DEPARTMENT OF ENGINEERING | | | |
| ADDED DETAIL OF NOTCHED WEDGE JOINT | | JULY 14, 2020 | | | DRAWN BY: M.R.P. | CHECKED BY: | DESIGNED BY: | SCALE: AS NOTED | TOWN OF PLAINVILLE | | | |
| REVISED PROPOSED BIT. CONC. TO 2" HMA S0.5 AND 3" HMA S1.0. | | AUG. 4, 2020 | | | DATE: MAR. 21, 2019 | DATE: | DATE: | PLAINVILLE, CONNECTICUT | | | | |
| REVISED PER PRELIMINARY DESIGN SUBMISSION REVIEW COMMENTS | | NOV. 4, 2020 | | | F.H.W.A. REGION NO. 1 | STATE CT | TOWN(S) PLAINVILLE | PROJ. NO. | PROJ. NO. | YEAR 2019 | ROUTE NO. | SHEET NO. |



PLAN
SCALE: 1" = 40'



| 1 | SURVEY STATION | REBAR |
|--|--------------------------------|--|
| | RM 1 | N. 297718.90 E. 565701.05 ELEV. = 179.19' |
| | RM 2 | |
| | RM 3 | |
| NOTE: REBAR IS LOCATED 4.7' NORTH OF EDGE OF RD. | | |
| | RM 1 | 9.30' OPER. NUT HYDRANT |
| | RM 2 | 25.4' CORNER HEADWALL |
| | RM 3 | 50.7' SANITARY MANHOLE |
| 2 | SURVEY STATION | REBAR |
| | RM 1 | N. 297767.150 E. 565337.84 ELEV. = 179.01' |
| | RM 2 | |
| | RM 3 | |
| NOTE: REBAR IS LOCATED 5.7' NORTH OF EDGE OF RD. | | |
| | RM 1 | 119.1' FACE UTILITY POLE |
| | RM 2 | 45.7' FACE UTILITY POLE |
| | RM 3 | 87.5' FACE UTILITY POLE |
| 3 | HYDRANT E. OF ROB. JACKSON WAY | |
| | ELEV. = 177.07' | N. 297633.30 E. 565049.97 |
| | R.J.W. RM 1 | |
| | RM 2 | TOWN LINE RD |
| | RM 3 | |
| NOTE: TOP OF OPERATING NUT HYD. IS 11.8' N. FACE OF CURB | | |
| | RM 1 | 56.6' C. CB GRATE |
| | RM 2 | 59.2' FACE UTILITY POLE |
| | RM 3 | 11.8' FACE BIT. CURB |



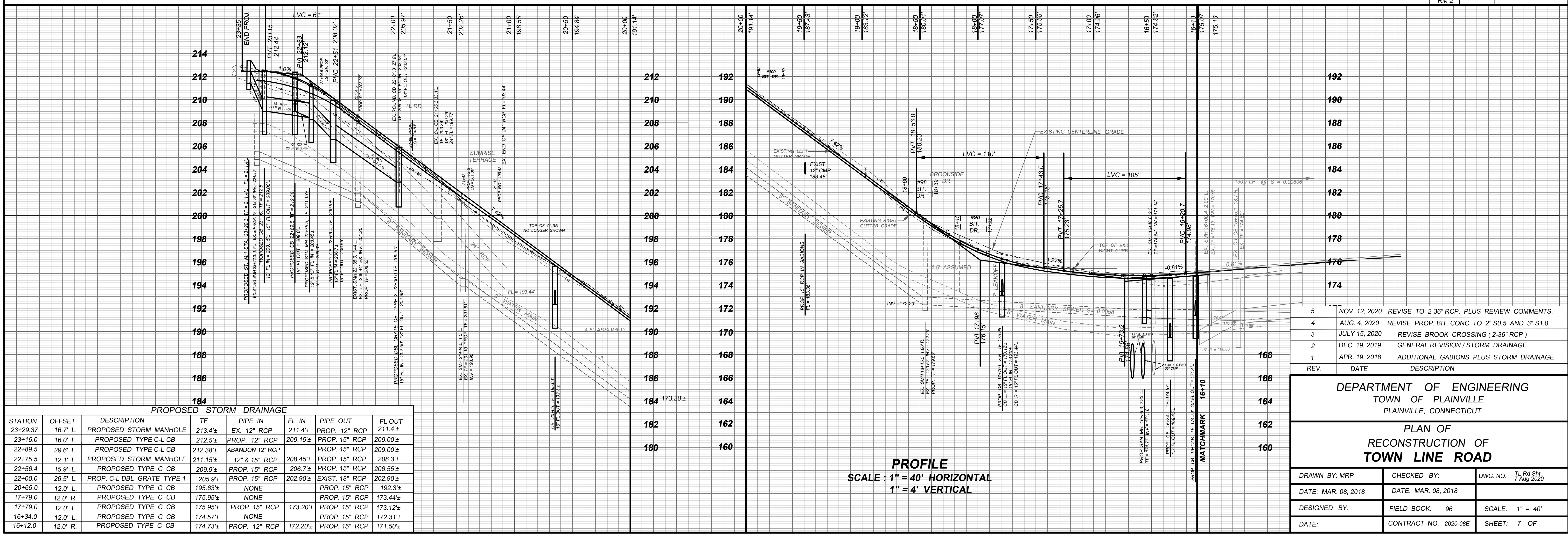
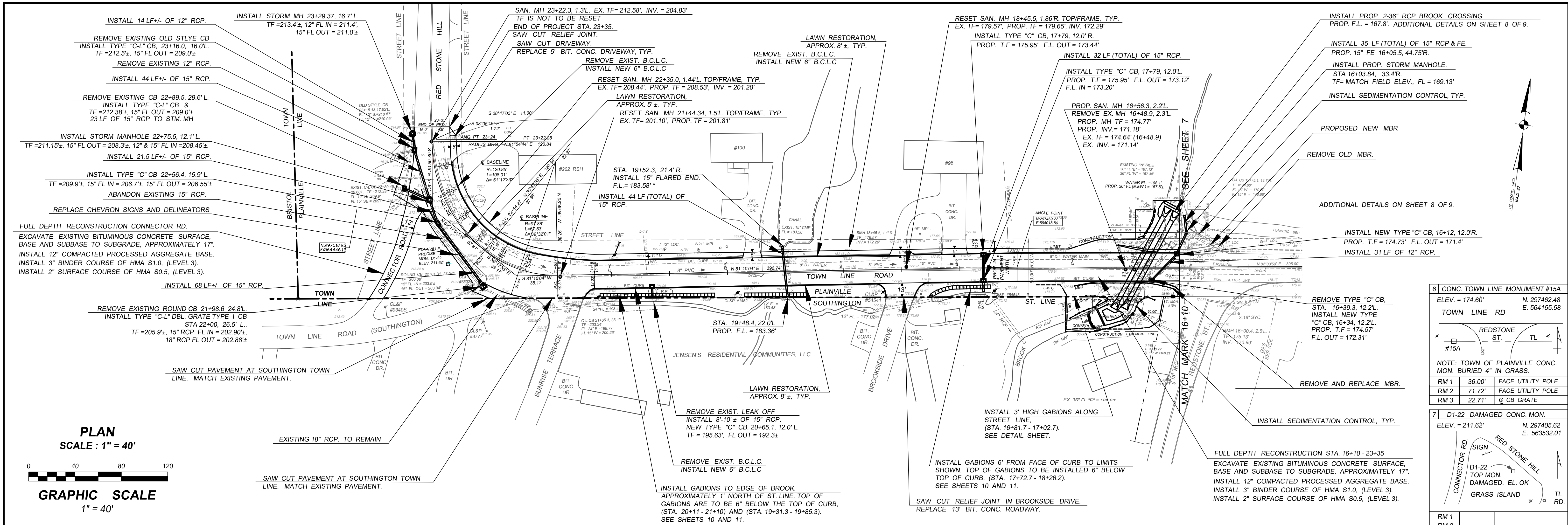
PROFILE
SCALE: 1" = 40' HORIZONTAL
1" = 4' VERTICAL

| REV. | DATE | DESCRIPTION |
|------|--------------|--|
| 5 | NOV.20, 2020 | DRAFTING IMPROVEMENTS |
| 4 | SEPT.3, 2020 | REVISE PER PRELIM. DESIGN REVIEW COMMENTS |
| 3 | AUG. 4, 2020 | REVISE PROP. BIT. CONC. TO 2" HMA S0.5 & 3" HMA S1 |
| 2 | DEC. 6, 2019 | REVISE DRAINAGE, REVISE GRADES |
| 1 | OCT.15, 2019 | ADD DRAINAGE, REVISE GRADES |

DEPARTMENT OF ENGINEERING
TOWN OF PLAINVILLE
PLAINVILLE, CONNECTICUT

PLAN AND PROFILE OF RECONSTRUCTION OF TOWN LINE ROAD

| | | |
|---------------------|------------------------|---------------------------------------|
| DRAWN BY: MRP | CHECKED BY: | DWG. NO. TL Rd Sht 5 P&P Sept 2020 |
| DATE: MAR. 08, 2018 | DATE: | |
| DESIGNED BY: | FIELD BOOK: 96 | SCALE: AS NOTED |
| DATE: | CONTRACT NO.: 2020-08E | SHEET 5 OF |



| REV. | DATE | DESCRIPTION |
|------|---------------|---|
| 5 | NOV. 12, 2020 | REVISE TO 2-36" RCP, PLUS REVIEW COMMENTS. |
| 4 | AUG. 4, 2020 | REVISE PROP. BIT. CONC. TO 2" S0.5 AND 3" S1.0. |
| 3 | JULY 15, 2020 | REVISE BROOK CROSSING (2-36" RCP) |
| 2 | DEC. 19, 2019 | GENERAL REVISION / STORM DRAINAGE |
| 1 | APR. 19, 2018 | ADDITIONAL GABIONS PLUS STORM DRAINAGE |

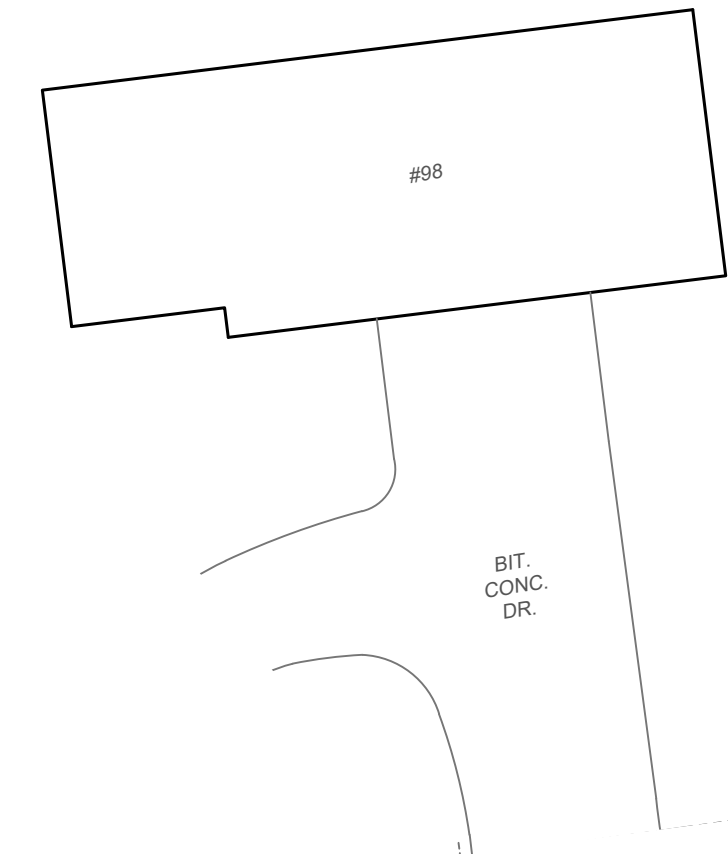
DEPARTMENT OF ENGINEERING
TOWN OF PLAINVILLE
PLAINVILLE, CONNECTICUT

PLAN OF
RECONSTRUCTION OF
TOWN LINE ROAD

| | | |
|---------------------|-----------------------|--------------------------------|
| DRAWN BY: MRP | CHECKED BY: | DWG. NO. TL Rd Sht. 7 Aug 2020 |
| DATE: MAR. 08, 2018 | DATE: MAR. 08, 2018 | |
| DESIGNED BY: | FIELD BOOK: 96 | SCALE: 1" = 40' |
| DATE: | CONTRACT NO. 2020-08E | SHEET: 7 OF |

N/F
VALERIE J. HOLCOMB
ASSESSOR'S LOT #41-C-10

N/F
90 TOWN LINE, LLC
ASSESSOR'S LOT #41-C-11



STABILIZE STREAM BED AND BANK WITH RIP RAP, TYP.
INSTALL RIP RAP SPLASH PAD.

EAST PIPE CROSSING, F.E. (NE) 16+12.59, 47.17' R.
INSTALL 94 LF +/- OF NEW 36" R.C.P./F.E.
PROP. FL. = 167.8'±

LIMITS OF RIP RAP.

WEST PIPE CROSSING, F.E. (NW) 16+19.61, 51.00' R.
INSTALL 94 LF +/- OF NEW 36" R.C.P./F.E.
PROP. FL. = 167.8'±

PROPOSED 25' X 60' STORM WATER
EASEMENT WITH 8' X 30' EXTENSION.

36" R.C.P. BROOK CROSSING INSTALLED
UNDER SANITARY SEWER AND WATER MAIN.

INSTALL NEW
6" B.C.L.C., TYP.

PROP. SAN. MH 16+56.3, 2.2'L.
REMOVE EX. MH 16+48.9, 2.3'L.
PROP. MH TF = 174.77'
PROP. INV. = 171.18'
EX. TF = 174.64' (16+48.9)
EX. INV. = 171.14'

ANGLE POINT
N.297468.22
E.564018.96

INSTALL NEW
6" B.C.L.C., TYP.

INSTALL 36" RCP F.E. (SW) 16+66.62, 37.75' L.
F.L. = 165.95'

PROPOSED CHECK DAM.

INSTALL 15± LF OF 15" HDPP WITH FLARED END, FL = 168.70' ±.
INSTALL RIP RAP SPLASH PAD AT END OF NEW 15" H.D.P.P.

INSTALL SILT FENCE, TYP.

REMOVE 5'± OF EXIST. CMP.
INSTALL NEW STORM MH.
TF = MATCH EXIST. GROUND.
FL. (E.W.&N.) = 169.1'±.

INSTALL TYPE "C" CB AT STA. 16+12.0, 12.0' R.
PROP. TF = 174.73', 12" FL IN = 172.0'.
15" FL OUT = 171.5'. INSTALL 20' OF 15"
HDPP TO PROP. MH.

REMOVE EXISTING METAL BEAM RAIL INCL POSTS (MBR)
INSTALL NEW MBR AND POSTS 16'± N. OF BASELINE.
INSTALL NEW CONCRETE END ANCHORS FOR MBR, TYP.

APPROXIMATE LIMIT OF TRENCH EXCAVATION
AND SAW CUTTING.
(2) 36" C.M.P. TO BE ABANDONED.

REMOVE EXISTING TYPE "C" CB @ STA. 16+39.3, 12.2' L.
INSTALL NEW TYPE "C" CB AT STA. 16+34, 12.2' L.
PROP. TF = 174.57', FL OUT = 172.31'
INSTALL 11 LF± OF 10" SCH. 35 PVC PIPE.

LAWN RESTORATION, TYP.

PROPOSED 15' X 60'± STORM WATER EASEMENT

INSTALL 36" RCP F.E. (SE) 16+57.52, 37.75' L.
F.L. = 165.95'

STABILIZE STREAM BED AND BANK WITH RIP RAP, TYP.
INSTALL RIP RAP SPLASH PAD.
LIMITS OF RIP RAP.

INSTALL SILT FENCE, TYP.

PROPOSED SILT CURTAIN, TYP.



GRAPHIC SCALE
1" = 20'

| REV. | DATE | DESCRIPTION |
|------|--------------|-------------------------|
| 1 | OCT 19, 2020 | REVISE WITH FLARED ENDS |

DEPARTMENT OF ENGINEERING
TOWN OF PLAINVILLE
PLAINVILLE, CONNECTICUT

PLAN OF RECONSTRUCTION OF
TOWN LINE ROAD
CULVERT REPLACEMENT AND PROPOSED DRAINAGE EASEMENT

| | | |
|--------------------|----------------|-----------------------------|
| DRAWN BY: MRP | CHECKED BY: | DWG NO. TL RD. WETLAND AREA |
| DATE: OCT 29, 2020 | DATE: | |
| DESIGNED BY: | FIELD BOOK: 96 | SCALE: 1" = 20' |
| DATE: | CONTRACT NO. | SHEET 8 OF 1 |