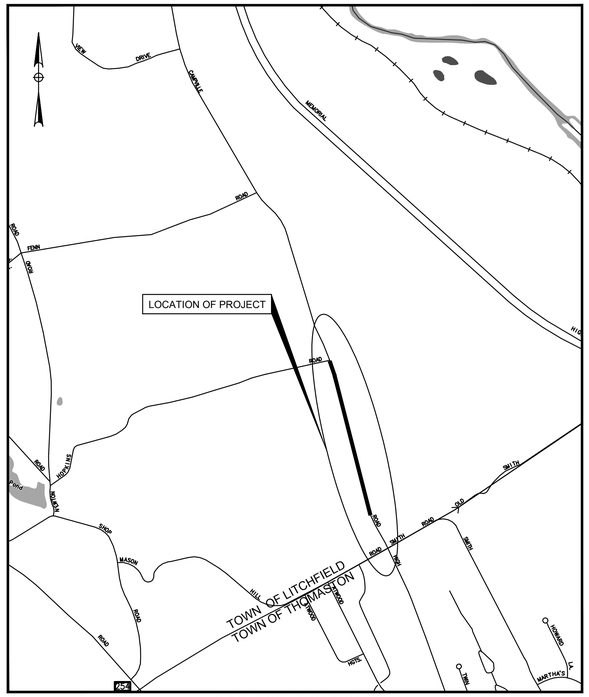


PROJECT LOCATION PLAN
NTS

TOWN OF LITCHFIELD

ROADWAY RECONSTRUCTION
CAMPVILLE ROAD

STATE PROJECT No. 0073-0198

FEDERAL AID PROJECT No. 1073(109)

TO BE MAINTAINED BY THE TOWN OF LITCHFIELD
FROM STA 102+89.1 TO STA 125+75 LENGTH = 2285.9 LF

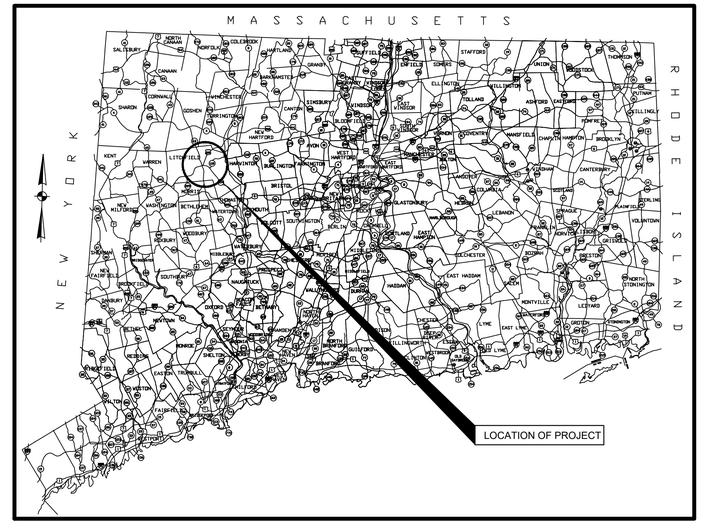
SCALES: AS NOTED

FIRST SELECTMAN

DENISE RAAP

PUBLIC WORKS DIRECTOR AND TOWN ENGINEER

RAZ ALEXE, P.E.



PROJECT VICINITY MAP
NOT TO SCALE

DESIGN DATA
FUNCTIONAL CLASSIFICATION OF CAMPVILLE ROAD: RURAL MINOR COLLECTOR
DESIGN SPEED: 30 mph POSTED SPEED LIMIT: 30 mph

CONSTRUCTION SPECIFICATIONS: STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 819 2024, JULY 2025 SUPPLEMENTAL SPECIFICATIONS.

HORIZONTAL DATUM: ASSUMED DATUM
VERTICAL DATUM: ASSUMED DATUM

NOVEMBER 19, 2025

LIST OF DRAWINGS

SHEET NO.	TITLE	DRAWING	SHEET NO.	STANDARD DRAWINGS	FHWA APPROVAL DATE
1	TITLE SHEET	TITLE	HW-910_17	R-B TERMINAL SECTION	11-08-22
2	GENERAL NOTES & TYPICAL SECTION	GEN-01	HW-910_20	MASH W-BEAM HARDWARE	10-18-24
3	MISCELLANEOUS GRADING PLAN	GRA-02	HW-910_21	METAL BEAM RAIL (R-B MASH) GUIDERAIL	01-04-24
4-6	ROADWAY PLAN AND PROFILE	PLA-01 TO PLA-03	HW-910_25a	METAL BEAM RAIL TRANSITION 350 TO MASH GUIDERAIL	10-18-24
7-21	CROSS SECTIONS	XSC-01 TO XSC-15	TR-1208_02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS	6-15-17
22	MISCELLANEOUS DETAILS	MDS-01	TR-1210_08	PAVEMENT MARKINGS FOR NON FREEWAYS	8-21-18

LIST OF DRAWING REVISIONS

SHEET NO.	DESCRIPTION	DATE	BY
-	-		

DESIGNED BY: CARDINAL ENGINEERING ASSOCIATES, INC.

JOSEPH A. CERMOLA III, P.E.

TITLE_FD

1

BID DOCUMENTS

CARDINAL
ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

GENERAL NOTES

1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 819 2024, JANUARY 2025 SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 819 2024 WITH THE JAN. 2025 SUPPLEMENTAL SPECIFICATIONS, SPECIAL PROVISIONS, CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL 2024 AND CT DEEP BULLETIN 34, UNLESS OTHERWISE SPECIFIED IN THE TECHNICAL SPECIFICATIONS.

2. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.

3. THE CONTRACTOR SHALL WALK THE PROJECT PRIOR TO CONSTRUCTION WITH A REPRESENTATIVE FROM THE TOWN AND THE ENGINEER. TREES TO BE REMOVED SHALL BE MARKED IN THE FIELD. EXTREME CARE SHALL BE EXERCISED TO PROTECT ALL TREES NOT DESIGNATED FOR REMOVAL. NO TREES SHALL BE REMOVED UNTIL AUTHORIZATION IS GIVEN BY THE TOWN. COST IS INCLUDED IN THE ITEM "CLEARING AND GRUBBING".

4. ANY PHYSICAL FEATURES DISTURBED BY THE CONTRACTOR SHALL BE REPLACED OR RECONSTRUCTED AS DIRECTED BY THE ENGINEER TO A CONDITION EQUAL TO OR BETTER THAN PRIOR TO CONSTRUCTION AT THE CONTRACTORS EXPENSE.

5. ALL DIMENSIONS AND ELEVATIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF MANUFACTURING AND CONSTRUCTION, AND NECESSARY ADJUSTMENTS MADE AS ORDERED BY THE ENGINEER.

6. THE CONTRACTOR'S ACTIVITIES ON SITE SHALL BE LIMITED TO OPERATIONS BETWEEN 7:00 A.M. TO 5:00 P.M., MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS.

7. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR APPROVAL PRIOR TO COMMENCING CONSTRUCTION.

8. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL PROPERTIES AT ALL TIMES DURING CONSTRUCTION. COORDINATE ACCESS WITH PAVING OPERATIONS SO THAT JOINTS ARE MINIMIZED (SEE MAINTENANCE AND PROTECTION OF TRAFFIC SPECIFICATIONS). NO TRANSVERSE JOINTS SHALL BE ALLOWED DURING THE PAVING OF THE WEARING COURSE.

9. ALL DISTURBED AREAS THAT WILL NOT BE PAVED SHALL RECEIVE 4" OF TOPSOIL AND TURF ESTABLISHMENT.

10. FOR LAYOUT PURPOSES, PIPE LENGTHS INDICATED ON THE PLANS ARE FROM CENTER OF CATCH BASIN/MANHOLE TO CENTER OF CATCH BASIN/MANHOLE OR FACE OF ENDWALL AND THE LENGTH OF THE FLARED END SECTION IS INCLUDED IN PIPE LENGTH. PAYMENT SHALL BE THE ACTUAL LENGTH INSTALLED MEASURED FROM THE INSIDE FACE OF THE STRUCTURE TO THE INSIDE FACE OF A STRUCTURE OR THE FACE OF AN ENDWALL AND SHALL NOT INCLUDE THE LENGTH OF THE CULVERT END. CULVERT ENDS ARE PAID SEPARATELY.

11. ALL TOP OF FRAME ELEVATIONS REFLECT THE ELEVATION WITH THE STANDARD DEPRESSION AS SHOWN ON "DETAILS OF DEPRESSED GUTTER STRIP" AND CTDOT STANDARD SHEETS HW-507_1, HW-507_2, AND HW-507_3 ENTITLED "TYPE "C", "C-L" DROP INLET CATCH BASINS", "TYPE "C", "C-L" DOUBLE GRATE TYPE 1," AND "TYPE "C", "C-L" DOUBLE GRATE TYPE 2." THE ELEVATION IS APPLIED AT THE FACE OF CURB. OFFSETS NOTED ON THESE PLANS ARE TO THE CENTERLINE OF THE CATCH BASIN STRUCTURE, NOT TO THE FACE OF CURB. THE CENTERLINE OF TYPE "C" CATCH BASINS (SINGLE GRATE AND DOUBLE GRATE TYPE 2) ARE 10 3/16 INCHES IN FRONT OF THE FACE OF CURB. THE CENTERLINE OF TYPE "C" CATCH BASIN DOUBLE GRATE TYPE 1 STRUCTURES ARE 19 INCHES IN FRONT OF THE FACE OF CURB.

12. ALL SWALES AND DITCHES SHALL HAVE TEMPORARY "U" SHAPED STONE DIKES PLACED PERPENDICULAR TO FLOW AT 30' SPACING DURING CONSTRUCTION TO PREVENT EROSION .

13. ALL REQUIRED UTILITY RELOCATIONS SHALL BE PERFORMED BY THE RESPECTIVE UTILITY COMPANY UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES PRIOR TO ANY WORK AND COORDINATE ALL CONTRACT WORK WITH THE UTILITY COMPANY WORK. THE CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY COMPANY FOR THE UTILITY COMPANY TO SUPPORT ANY POLES THAT NEED TO BE SUPPORTED DURING THE CONTRACTOR'S TRENCHING OPERATIONS. THE COST TO COORDINATE THIS WORK WITH THE UTILITY COMPANIES SHALL BE INCIDENTAL TO THE PROJECT UNLESS A SPECIFIC PAY ITEM IS INCLUDED.

14. THE CONTRACTOR WILL BE REQUIRED TO WORK IN PROXIMITY OF AND BENEATH OVERHEAD POWER LINES AS WELL AS TELEPHONE, CABLE TV AND TELECOMMUNICATION LINES. THE OVERHEAD LINES ARE NOT ANTICIPATED TO BE DE-ENERGIZED DURING THE PROSECUTION OF THIS WORK. THE CONTRACTOR SHALL SPECIFICALLY COMPLY WITH THE REQUIREMENTS DETAILED IN OSHA REGULATIONS (STANDARDS 29 CFR) CRANES AND DERRICKS - 1926.550 AS WELL AS OTHER APPLICABLE OSHA STANDARDS. THE CONTRACTOR SHALL MAINTAIN A SAFE DISTANCE FROM ALL UTILITY POLES DURING CONSTRUCTION ACTIVITIES.

15. THE INFORMATION SHOWN ON THESE PLANS IS BASED ON LIMITED INVESTIGATIONS AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OF WORK REQUIRED. LOCATIONS OF EXISTING UTILITIES AND UNDERGROUND STRUCTURES HAVE BEEN COMPILED FROM THE BEST AVAILABLE INFORMATION. THIS INFORMATION WAS COMPILED UTILIZING UTILITY COMPANY & TOWN RECORD MAPS AND FIELD SURVEY AND THEREFORE, IS CONSIDERED TO BE APPROXIMATE. ALL UTILITIES AND UNDERGROUND STRUCTURES MAY NOT BE SHOWN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATION OF ALL UTILITIES AND TO NOTIFY UTILITY COMPANIES OF NECESSARY RELOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF THE UTILITY COMPANIES. UTILITY LINES DAMAGED BY THE CONTRACTOR SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND THE UTILITY COMPANY AND THE COST OF REPAIR WORK SHALL BE BORNE BY THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT CALL BEFORE-U-DIG AT 1-800-922-4455 FOR MARKING OF EXISTING UTILITIES AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF EXCAVATION (MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS).

16. CONTRACTOR TO SUPPLY UTILITY COMPANIES WITH SUFFICIENT VERTICAL AND HORIZONTAL STAKEOUT OF PROPOSED STORM DRAINAGE, PROPOSED ROADWAY, AND OTHER PROPOSED IMPROVEMENTS TO PERFORM UTILITY RELOCATIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE ITEM "CONSTRUCTION SURVEYING."

17. ANTICIPATED UTILITY POLE RELOCATIONS, IF ANY, ARE SHOWN ON THE PLANS. ADDITIONAL POLE RELOCATIONS MAY BE REQUIRED. CONTRACTOR TO PROVIDE STAKEOUT OF PROPOSED IMPROVEMENTS PRIOR TO COMMENCEMENT OF WORK TO DETERMINE IF ADDITIONAL POLE RELOCATIONS ARE REQUIRED. POLE RELOCATIONS MAY NOT BE COMPLETED PRIOR TO THE INSTALLATION OF STORM DRAINAGE AND ROADWAY IMPROVEMENTS. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE PROJECT.

18. EXISTING PAVEMENT SHALL BE REMOVED IN FILL AREAS PRIOR TO PLACING FILL. EXISTING PAVEMENT OUTSIDE OF THE CUT AND FILL LIMITS THAT WILL NOT BE USED IN THE PROPOSED CONDITIONS SHALL BE REMOVED. PAYMENT SHALL BE MADE UNDER THE ITEM "EARTH EXCAVATION."

19. ALL EXISTING DRAINAGE PIPES AND CULVERTS WITHIN THE PROJECT SLOPE LIMITS THAT ARE DESIGNATED TO BE REMOVED SHALL BE REMOVED AND BACKFILLED AS SPECIFIED IN SECTION 2.86 "DRAINAGE TRENCH EXCAVATION" UNLESS OTHERWISE SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. COORDINATE THIS WORK WITH THE RECONNECTION OF ANY EXISTING FOUNDATION AND OTHER DRAINS TO THE PROPOSED DRAINAGE SYSTEM.

20. THE CONTRACTOR SHALL MAINTAIN ALL ROAD NAME SIGNS AS INDICATED ON THE PLANS AND SHALL MAINTAIN ALL TRAFFIC CONTROL SIGNS AS NEEDED DURING CONSTRUCTION AND AS DIRECTED BY THE ENGINEER. COST IS INCLUDED IN THE ITEM "MAINTENANCE AND PROTECTION OF TRAFFIC".

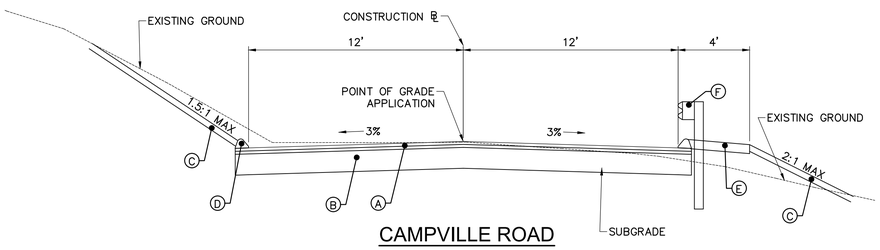
21. PLANIMETRIC AND TOPOGRAPHIC FEATURES ARE BASED ON FIELD SURVEY PERFORMED BY CARDINAL ENGINEERING ASSOCIATES, INC. IN SEPTEMBER 2021. SURVEY BASELINE CONFORMS TO CLASS A-2 HORIZONTAL ACCURACY. STREETLINE AND PROPERTY LINE INFORMATION (IF SHOWN) ARE APPROXIMATE AND BASED ON LIMITED FIELD SURVEY. ALL ELEVATIONS ARE BASED ON AN ASSUMED DATUM. HORIZONTAL COORDINATES ARE BASED ON AN ASSUMED DATUM. VERTICAL ACCURACY IS CLASS T-2.

LIST OF ABBREVIATIONS

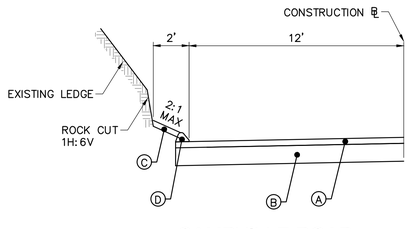
AGGR	AGGREGATE	NOM	NOMINAL
AH	AHEAD	NO	NUMBER
A	ALGEBRAIC DIFFERENCE IN GRADES	PERF	PERFORATED
APPROX	APPROXIMATE	POB	POINT OF BEGINNING
ASPH	ASPHALT	PCC	POINT OF COMPOUND CURVATURE
BK	BACK	PC	POINT OF CURVATURE
℄	BASELINE	POE	POINT OF ENDING
BM	BENCHMARK	PGA	POINT OF GRADE APPLICATION
BIT	BITUMINOUS	PI	POINT OF INTERSECTION
BCLC	BITUMINOUS CONCRETE LIP CURBING	PRC	POINT OF REVERSE CURVE
CGR	CABLE GUIDERAIL	PT	POINT OF TANGENCY
CI / CIP	CAST IRON PIPE	PVC	POINT OF VERTICAL CURVATURE
CB	CATCH BASIN	PVCC	POINT OF VERTICAL COMPOUND CURVATURE
℄	CENTERLINE	PVI	POINT OF VERTICAL INTERSECTION
CC	CONCRETE CURBING	PVRC	POINT OF VERTICAL REVERSE CURVE
CL	CLASS	PVT	POINT OF VERTICAL TANGENCY
CONC	CONCRETE	POC	POINT ON CURVATURE
CP	CONTROL POINT	POT	POINT ON TANGENT
COR	CORNER	PVC	POLYVINYL CHLORIDE PIPE
CMP	CORRUGATED METAL PIPE	⅊	PROPERTY LINE
CPFE	CORRUGATED POLYETHYLENE FLARED END	R	RADIUS
CPP	CORRUGATED POLYETHYLENE PIPE	RR	RAILROAD
CY	CUBIC YARD	K	RATE OF VERTICAL CURVATURE
DIA	DIAMETER	REINF	REINFORCED
DBL	DOUBLE	RCCE	REINFORCED CONCRETE CULVERT END
DRIVE	DRIVEWAY	RCP	REINFORCED CONCRETE PIPE
DI / DIP	DUCTILE IRON PIPE	REQD	REQUIRED
EA	EACH	RT	RIGHT
EP	EDGE OF PAVEMENT	ROW	RIGHT OF WAY
EL / ELEV	ELEVATION	RSC	RIGID STEEL CONDUIT
EX / EXIST	EXISTING	RD	ROAD
FG	FINISHED GRADE	SAN	SANITARY
FP	FLAGPOLE	SS	SANITARY SEWER
FE	FLARED END	SED	SEDIMENTATION
FL	FLOW LINE	SCB	SEDIMENT CONTROL BALES
FT	FOOT	SCS	SEDIMENT CONTROL SYSTEM
FND	FOUND	SHLD	SHOULDER
FOUND	FOUNDATION	SF	SQUARE FOOT
G	GAS	SY	SQUARE YARD
GV	GAS VALVE	STD	STANDARD
GSC / GC	GRANITE STONE CURBING	STA	STATION
HP	HIGH POINT	SSD	STOPPING SIGHT DISTANCE
HORIZ	HORIZONTAL	ST	STREET
HRS	HOURS	℄	STREET LINE
HYD	HYDRANT	TBD	TO BE DETERMINED
INV	INVERT	TF	TOP OF FRAME
IE	INVERT ELEVATION	TYP	TYPICAL
IP	IRON PIN	UD	UNDERDRAIN
LT	LEFT	VERT	VERTICAL
L	LENGTH	VC	VERTICAL CURVE
LVC	LENGTH OF VERTICAL CURVE	VF	VERTICAL FEET
LTP	LIGHT POLE	VCP	VITRIFIED CLAY PIPE
LF	LINEAR FEET	W	WATER
LP	LOW POINT	WV	WATER VALVE
LS	LUMP SUM		
MB	MAILBOX		
MH	MANHOLE		
MAX	MAXIMUM		
MBR	METAL BEAM RAIL		
MCE	METAL CULVERT END		
MIN	MINIMUM		
MON	MONUMENT		
NTS	NOT TO SCALE		

STANDARD CONVENTIONS

EXISTING		PROPOSED
	APPROXIMATE LIMIT OF CUT SLOPE	C
	APPROXIMATE LIMIT OF FILL SLOPE	F
	APPROXIMATE PROPERTY LINE	
	APPROXIMATE STREET LINE	
	BASELINE STATION	0+00
Bit	BITUMINOUS CONCRETE DRIVEWAY	
	BORING NUMBER B10 (SEE BORING LOG SHEET)	B10
	CATCH BASIN	
	CONTROL POINT	
Conc	CONCRETE DRIVEWAY/ CONCRETE DRIVEWAY RAMP	
	CULVERT END	
	DRAINAGE DITCH	
Size & Type	DRAINAGE PIPE	SIZE & TYPE
	EASEMENT LINE (PERMANENT)	
	EASEMENT LINE (TEMPORARY)	
E	ELECTRIC LINE (OVERHEAD OR UNDERGROUND)	
G	GAS LINE	
	GAS TEST PIT	TP G1
GV WV	GAS VALVE or WATER VALVE	
	GRAVEL DRIVEWAY	
HV	HIGH VOLTAGE OVERHEAD LINE	
Number or Name	HOUSE/ STRUCTURE	
	HYDRANT	
	INLAND WETLAND LIMITS	
	MAILBOX	
D	MANHOLE (STORM)	D
S	MANHOLE (SANITARY)	S
	MILLING AND OVERLAY	
Mon	MONUMENT	MON
	NORTH ARROW	
	RIPRAP APRON	
SC	SANITARY SERVICE CONNECTION	
Size & Type	SANITARY SEWER	SIZE & TYPE
	SEDIMENTATION CONTROL SYSTEM	
	SIGN	
x 33.2	SPOT ELEVATION	x 33.2
	STONE WALL	
T	TELEPHONE LINE (OVERHEAD OR UNDERGROUND)	
	TEST HOLE NUMBER 5 (SEE CONTRACT DOCUMENTS)	TH-5
	TREE	
	TREE LINE	
Size & Type	UNDERDRAIN	SIZE & TYPE
	"U" SHAPED STONE DIKE	
Number & Owner	UTILITY POLE	
	WATER COURSE	
W	WATER LINE	W
	WATER TEST PIT	TP W1



CAMPVILLE ROAD
TYPICAL SECTION - FULL-DEPTH RECONSTRUCTION
NOT TO SCALE



CAMPVILLE ROAD
TYPICAL SECTION - ROCK EXCAVATION
NOT TO SCALE

LEGEND

- (A) 4" HMA S0.5 LEVEL 2, IN TWO EQUAL LIFTS
- (B) 14" PROCESSED AGGREGATE BASE
- (C) 4" TOPSOIL AND TURF ESTABLISHMENT
- (D) BITUMINOUS CONCRETE LIP CURBING (WHERE SHOWN ON THE PLANS)
- (E) 6" PROCESSED AGGREGATE
- (F) METAL BEAM RAIL (R-B MASH) GUIDERAIL (WHERE SHOWN ON THE PLANS)

NOTES:

1. SEE CROSS SECTIONS AND PLANS FOR ADDITIONAL INFORMATION.
2. APPLY NON-TRACKING ASPHALT TACK COAT BETWEEN LIFTS OF HMA.

THE CONTRACTOR ACKNOWLEDGES ITS RESPONSIBILITIES TO EXAMINE AND TO BE THOROUGHLY FAMILIAR WITH THE TOWN'S BID DOCUMENT, INCLUDING, BUT NOT LIMITED TO THE PLANS, SPECIFICATIONS, DRAWINGS AND ANY ADDENDA THERETO. THE CONTRACTOR HEREBY WARRANTS AND REPRESENTS THAT PRIOR TO THE SUBMISSION OF ITS PROPOSAL DURING THE BID PROCESS IT REVIEWED OR WAS AFFORDED OPPORTUNITY, BY THE TOWN, TO REVIEW ALL PHYSICAL ITEMS, FACILITIES, SERVICES AND FUNCTIONS ESSENTIAL TO THE SATISFACTORY PERFORMANCE OF THE SERVICES REQUIRED ("DUE DILIGENCE") AND THEREBY CERTIFIES THAT ALL SUCH ITEMS FACILITIES, SERVICES AND FUNCTIONS ARE INCLUDED IN THIS CONTRACT AND THEREBY WARRANTS THAT:

A. IT CONDUCTED OR HAD OPPORTUNITY TO CONDUCT ALL DUE DILIGENCE PRIOR TO THE SUBMISSION OF ITS BID AND, ACCORDINGLY, ANY ADDITIONAL COSTS, SERVICES OR PRODUCTS RESULTING FROM THE FAILURE OF THE CONTRACTOR TO COMPLETE DUE DILIGENCE PRIOR TO SUBMISSION OF ITS BID PROPOSAL SHALL BE BORNE BY THE CONTRACTOR. FURTHERMORE, THE CONTRACTOR HAD THE OPPORTUNITY DURING THE BID PROCESS TO ASK QUESTIONS IT SAW FIT AND TO REVIEW THE RESPONSES FROM THE TOWN;

B. ITS FAILURE OR OMISSION TO MAKE INVESTIGATION AND VERIFICATION OF DATA SHALL, IN NO WAY, BE CAUSE FOR FUTURE CLAIM OF IGNORANCE OF SUCH DATA OR CONDITIONS NOR SHALL SUCH FAILURE TO INVESTIGATE AND VERIFY BE THE BASIS FOR ANY CLAIM WHATSOEVER, MONETARY OR OTHERWISE;

C. IT IS SOLELY RESPONSIBLE FOR RESOLVING ANY ISSUES RESULTING FROM ITS FAILURE TO CONDUCT DUE DILIGENCE AND IT SHALL ASSUME ANY AND ALL RESULTING COSTS IT INCURS DURING THE PROJECT;

D. IT WAS RESPONSIBLE FOR SPECIFYING ANY CHANGES AND DISCLOSING ANY ASSOCIATED NEW COSTS PRIOR TO SUBMITTAL OF ITS BID. IN THE EVENT THE CONTRACTOR FAILED TO DISCLOSE ANY SUCH NEW COST PRIOR TO THE SUBMITTAL OF ITS BID, THE CONTRACTOR HEREBY COVENANTS THAT IT SHALL REMAIN SOLELY RESPONSIBLE FOR, AND SHALL ABSORB, THOSE NON-DISCLOSED COSTS;

E. IT HAS FAMILIARIZED ITSELF WITH THE NATURE AND EXTENT OF THE CONTRACT DOCUMENTS, PROJECT, LOCALITY, AND WITH ALL LOCAL CONDITIONS AND FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS.

CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
GENERAL NOTES & TYPICAL SECTION

GEN-01

File: P:\Civil_3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-GEN-01.dwg Plotted: 11/17/2025 12:46 PM

CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

CARDINAL
ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-2106

ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
MISCELLANEOUS GRADING PLANS

GRA-02

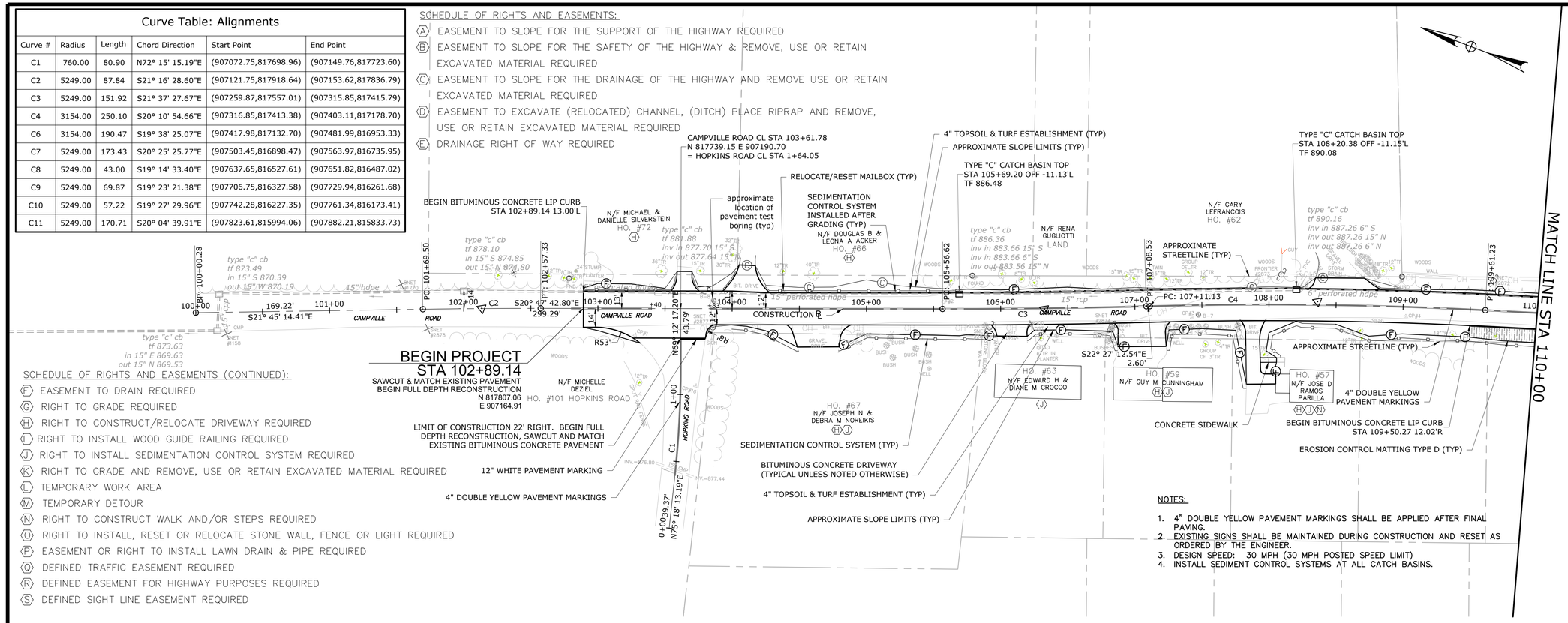
File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SPD 01-27-25 73-198 PPLAN - X-SEC.dwg Plotted: 11/17/2025 12:56 PM

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	760.00	80.90	N72° 15' 15.19"E	(907072.75,817698.96)	(907149.76,817723.60)
C2	5249.00	87.84	S21° 16' 28.60"E	(907121.75,817918.64)	(907153.62,817836.79)
C3	5249.00	151.92	S21° 37' 27.67"E	(907259.87,817557.01)	(907315.85,817415.79)
C4	3154.00	250.10	S20° 10' 54.66"E	(907316.85,817413.38)	(907403.11,817178.70)
C6	3154.00	190.47	S19° 38' 25.07"E	(907417.98,817132.70)	(907481.99,816953.33)
C7	5249.00	173.43	S20° 25' 25.77"E	(907503.45,816898.47)	(907563.97,816735.95)
C8	5249.00	43.00	S19° 14' 33.40"E	(907637.65,816527.61)	(907651.82,816487.02)
C9	5249.00	69.87	S19° 23' 21.38"E	(907706.75,816327.58)	(907729.94,816261.68)
C10	5249.00	57.22	S19° 27' 29.96"E	(907742.28,816227.35)	(907761.34,816173.41)
C11	5249.00	170.71	S20° 04' 39.91"E	(907823.61,815994.06)	(907882.21,815833.73)

SCHEDULE OF RIGHTS AND EASEMENTS:

- (A) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED
- (B) EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY & REMOVE, USE OR RETAIN EXCAVATED MATERIAL REQUIRED
- (C) EASEMENT TO SLOPE FOR THE DRAINAGE OF THE HIGHWAY AND REMOVE USE OR RETAIN EXCAVATED MATERIAL REQUIRED
- (D) EASEMENT TO EXCAVATE (RELOCATED) CHANNEL, (DITCH) PLACE RIPRAP AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL REQUIRED
- (E) DRAINAGE RIGHT OF WAY REQUIRED



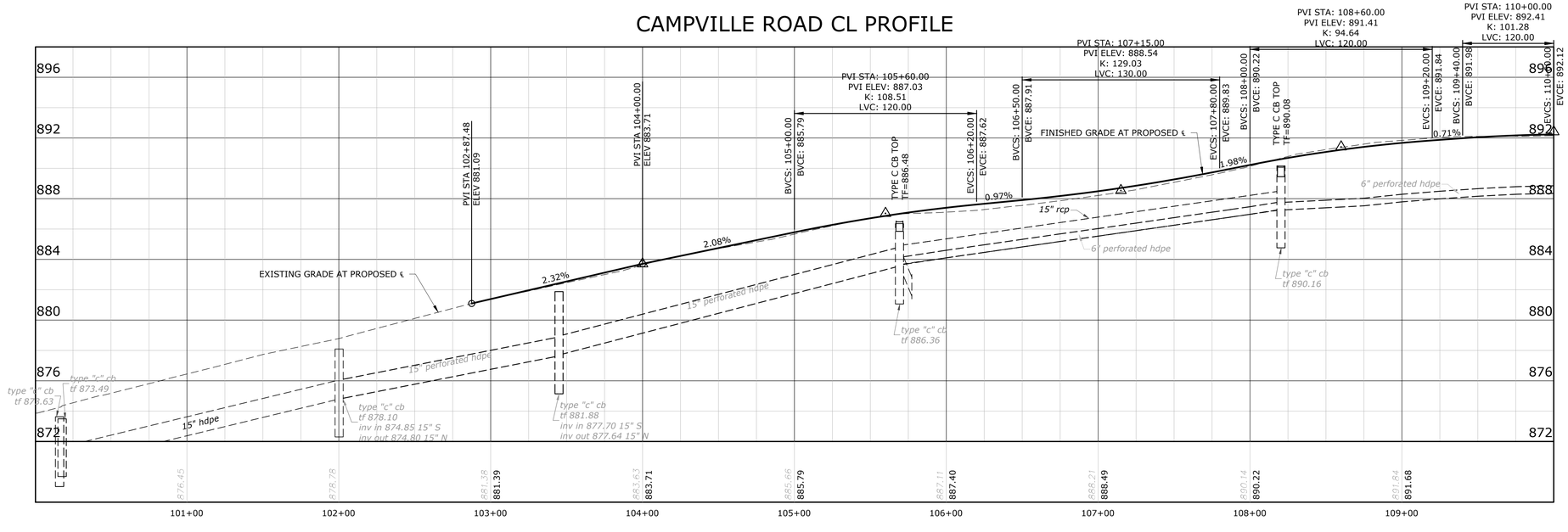
SCHEDULE OF RIGHTS AND EASEMENTS (CONTINUED):

- (F) EASEMENT TO DRAIN REQUIRED
- (G) RIGHT TO GRADE REQUIRED
- (H) RIGHT TO CONSTRUCT/RELOCATE DRIVEWAY REQUIRED
- (I) RIGHT TO INSTALL WOOD GUIDE RAILING REQUIRED
- (J) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED
- (K) RIGHT TO GRADE AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL REQUIRED
- (L) TEMPORARY WORK AREA
- (M) TEMPORARY DETOUR
- (N) RIGHT TO CONSTRUCT WALK AND/OR STEPS REQUIRED
- (O) RIGHT TO INSTALL, RESET OR RELOCATE STONE WALL, FENCE OR LIGHT REQUIRED
- (P) EASEMENT OR RIGHT TO INSTALL LAWN DRAIN & PIPE REQUIRED
- (Q) DEFINED TRAFFIC EASEMENT REQUIRED
- (R) DEFINED EASEMENT FOR HIGHWAY PURPOSES REQUIRED
- (S) DEFINED SIGHT LINE EASEMENT REQUIRED

NOTES:

1. 4" DOUBLE YELLOW PAVEMENT MARKINGS SHALL BE APPLIED AFTER FINAL PAVING.
2. EXISTING SIGNS SHALL BE MAINTAINED DURING CONSTRUCTION AND RESET AS ORDERED BY THE ENGINEER.
3. DESIGN SPEED: 30 MPH (30 MPH POSTED SPEED LIMIT)
4. INSTALL SEDIMENT CONTROL SYSTEMS AT ALL CATCH BASINS.

CAMPVILLE ROAD CL PROFILE



CONSTRUCTION DOCUMENTS

HORIZONTAL SCALE IN FEET 0 40 80 — HORIZONTAL SCALE 1" = 40'

VERTICAL SCALE IN FEET 0 4 8 — VERTICAL SCALE 1" = 4'

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

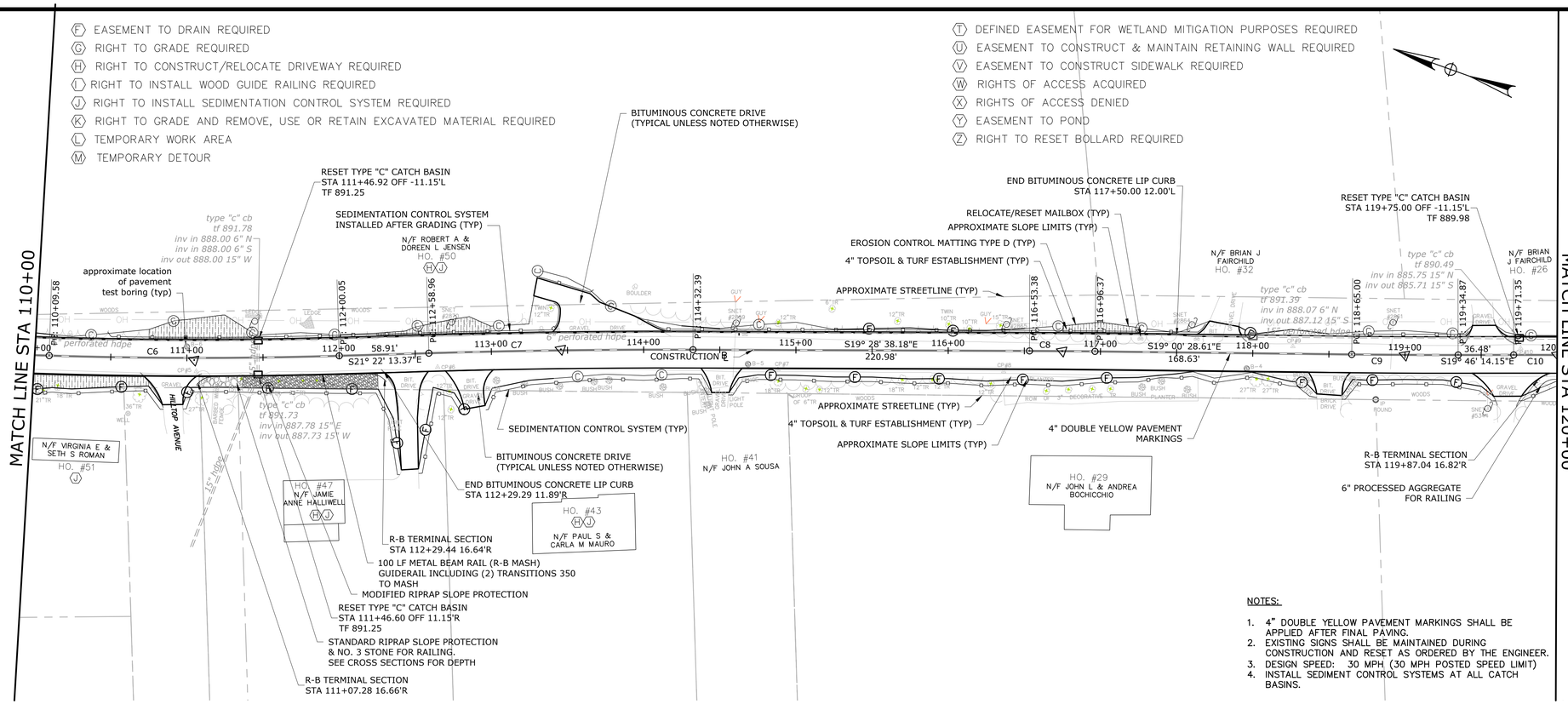
CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
PLAN & PROFILE

PLA-01

(F) EASEMENT TO DRAIN REQUIRED
(G) RIGHT TO GRADE REQUIRED
(H) RIGHT TO CONSTRUCT/RELOCATE DRIVEWAY REQUIRED
(I) RIGHT TO INSTALL WOOD GUIDE RAILING REQUIRED
(J) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED
(K) RIGHT TO GRADE AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL REQUIRED
(L) TEMPORARY WORK AREA
(M) TEMPORARY DETOUR

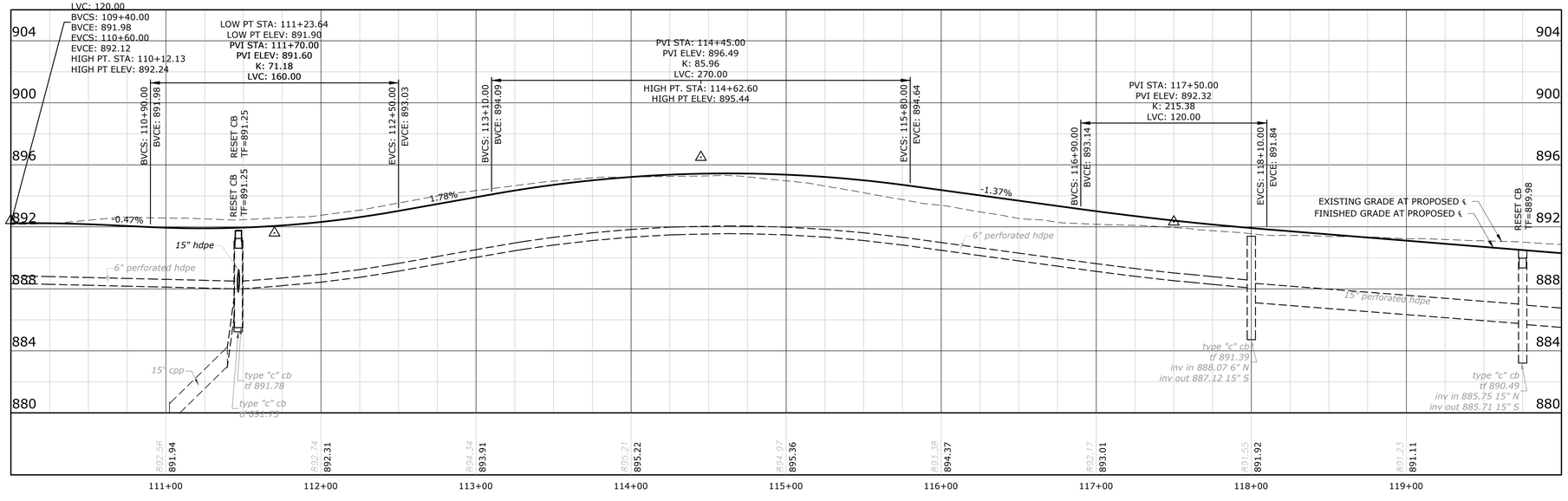
(T) DEFINED EASEMENT FOR WETLAND MITIGATION PURPOSES REQUIRED
(U) EASEMENT TO CONSTRUCT & MAINTAIN RETAINING WALL REQUIRED
(V) EASEMENT TO CONSTRUCT SIDEWALK REQUIRED
(W) RIGHTS OF ACCESS ACQUIRED
(X) RIGHTS OF ACCESS DENIED
(Y) EASEMENT TO POND
(Z) RIGHT TO RESET BOLLARD REQUIRED



NOTES:

1. 4" DOUBLE YELLOW PAVEMENT MARKINGS SHALL BE APPLIED AFTER FINAL PAVING.
2. EXISTING SIGNS SHALL BE MAINTAINED DURING CONSTRUCTION AND RESET AS ORDERED BY THE ENGINEER.
3. DESIGN SPEED: 30 MPH (30 MPH POSTED SPEED LIMIT)
4. INSTALL SEDIMENT CONTROL SYSTEMS AT ALL CATCH BASINS.

CAMPVILLE ROAD CL PROFILE



CONSTRUCTION DOCUMENTS

HORIZONTAL SCALE IN FEET 0 40 80 — HORIZONTAL SCALE 1" = 40'
VERTICAL SCALE IN FEET 0 4 8 — VERTICAL SCALE 1" = 4'

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

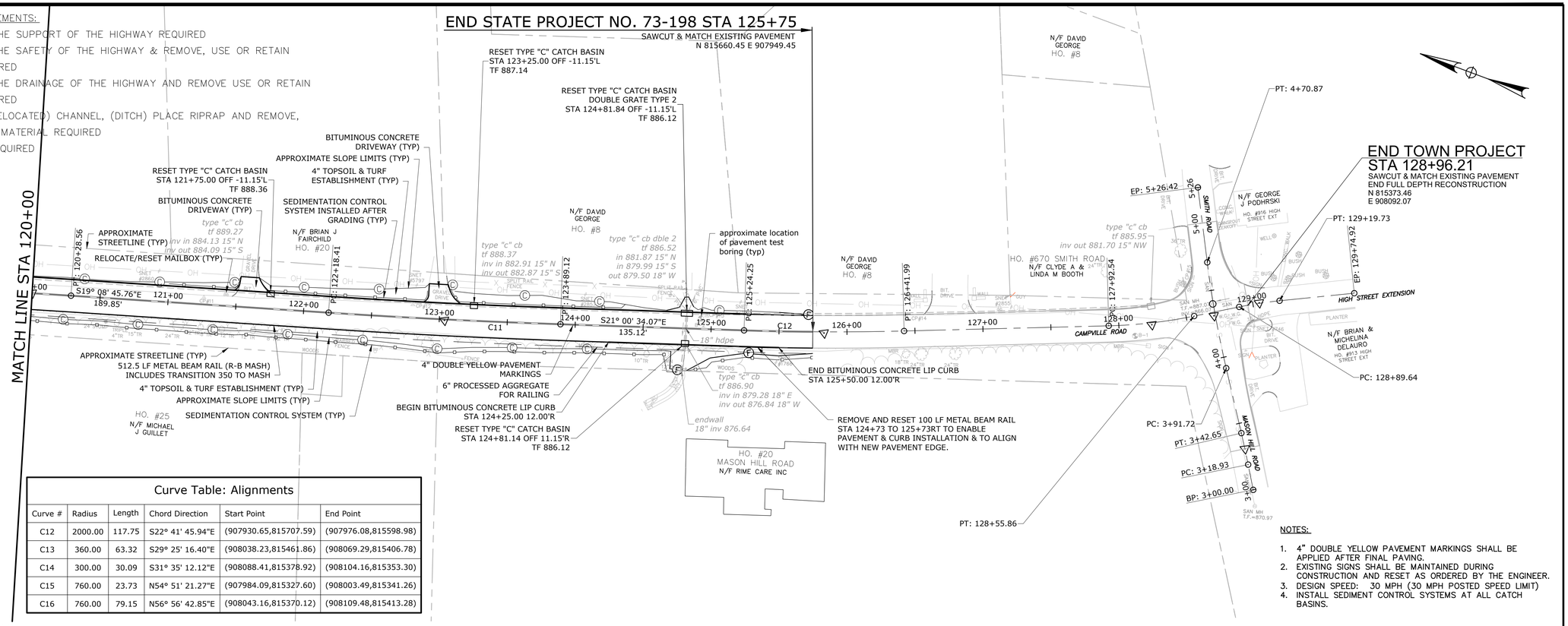
CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
PLAN & PROFILE

PLA-02

SCHEDULE OF RIGHTS AND EASEMENTS:

- (A) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED
- (B) EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY & REMOVE, USE OR RETAIN EXCAVATED MATERIAL REQUIRED
- (C) EASEMENT TO SLOPE FOR THE DRAINAGE OF THE HIGHWAY AND REMOVE USE OR RETAIN EXCAVATED MATERIAL REQUIRED
- (D) EASEMENT TO EXCAVATE (RELOCATED) CHANNEL, (DITCH) PLACE RIPRAP AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL REQUIRED
- (E) DRAINAGE RIGHT OF WAY REQUIRED



NOTES:

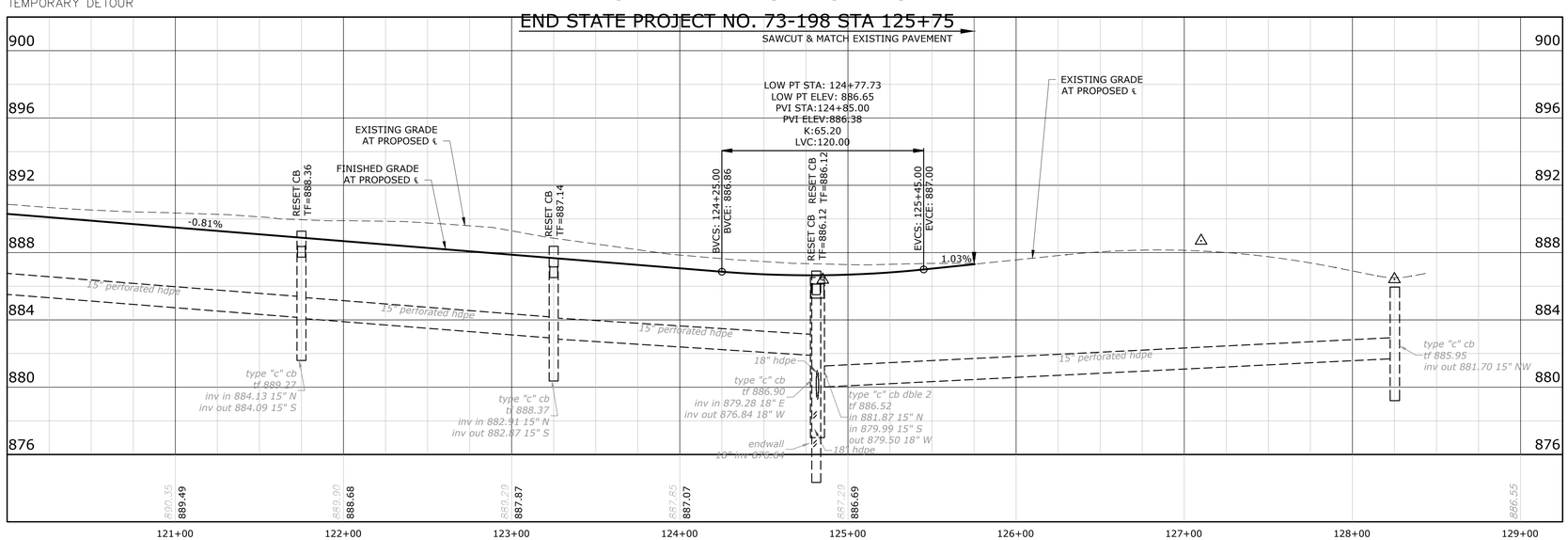
1. 4" DOUBLE YELLOW PAVEMENT MARKINGS SHALL BE APPLIED AFTER FINAL PAVING.
2. EXISTING SIGNS SHALL BE MAINTAINED DURING CONSTRUCTION AND RESET AS ORDERED BY THE ENGINEER.
3. DESIGN SPEED: 30 MPH (30 MPH POSTED SPEED LIMIT)
4. INSTALL SEDIMENT CONTROL SYSTEMS AT ALL CATCH BASINS.

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C12	2000.00	117.75	S22° 41' 45.94"E	(907930.65,815707.59)	(907976.08,815598.98)
C13	360.00	63.32	S29° 25' 16.40"E	(908038.23,815461.86)	(908069.29,815406.78)
C14	300.00	30.09	S31° 35' 12.12"E	(908088.41,815378.92)	(908104.16,815353.30)
C15	760.00	23.73	N54° 51' 21.27"E	(907984.09,815327.60)	(908003.49,815341.26)
C16	760.00	79.15	N56° 56' 42.85"E	(908043.16,815370.12)	(908109.48,815413.28)

- (F) EASEMENT TO DRAIN REQUIRED
- (G) RIGHT TO GRADE REQUIRED
- (H) RIGHT TO CONSTRUCT/RELOCATE DRIVEWAY REQUIRED
- (I) RIGHT TO INSTALL WOOD GUIDE RAILING REQUIRED
- (J) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED
- (K) RIGHT TO GRADE AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL REQUIRED
- (L) TEMPORARY WORK AREA
- (M) TEMPORARY DETOUR

CAMPVILLE ROAD CL PROFILE



CONSTRUCTION DOCUMENTS

HORIZONTAL SCALE IN FEET 0 40 80 — HORIZONTAL SCALE 1" = 40'

VERTICAL SCALE IN FEET 0 4 8 — VERTICAL SCALE 1" = 4'

NO.	REVISION	DATE	BY

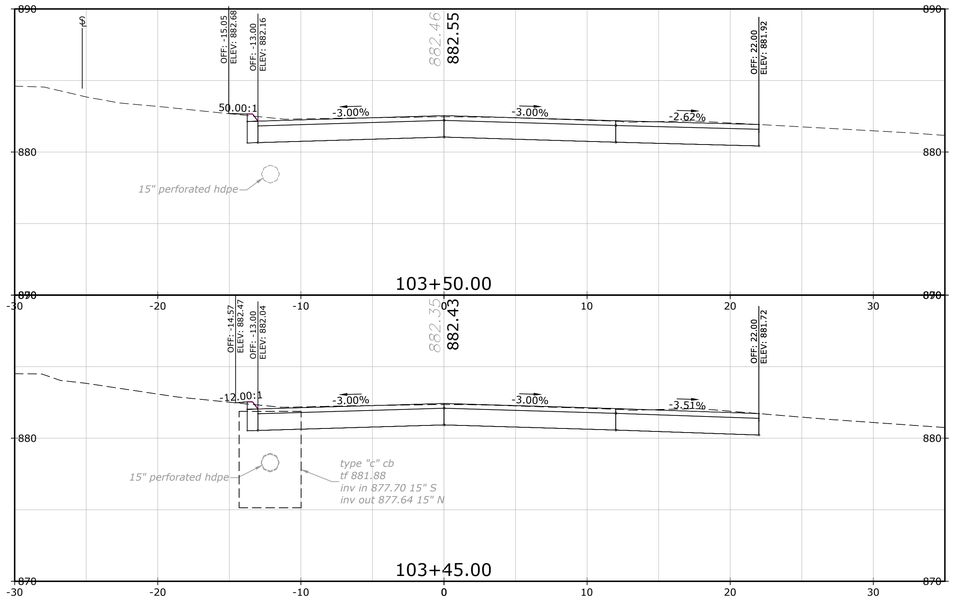
DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

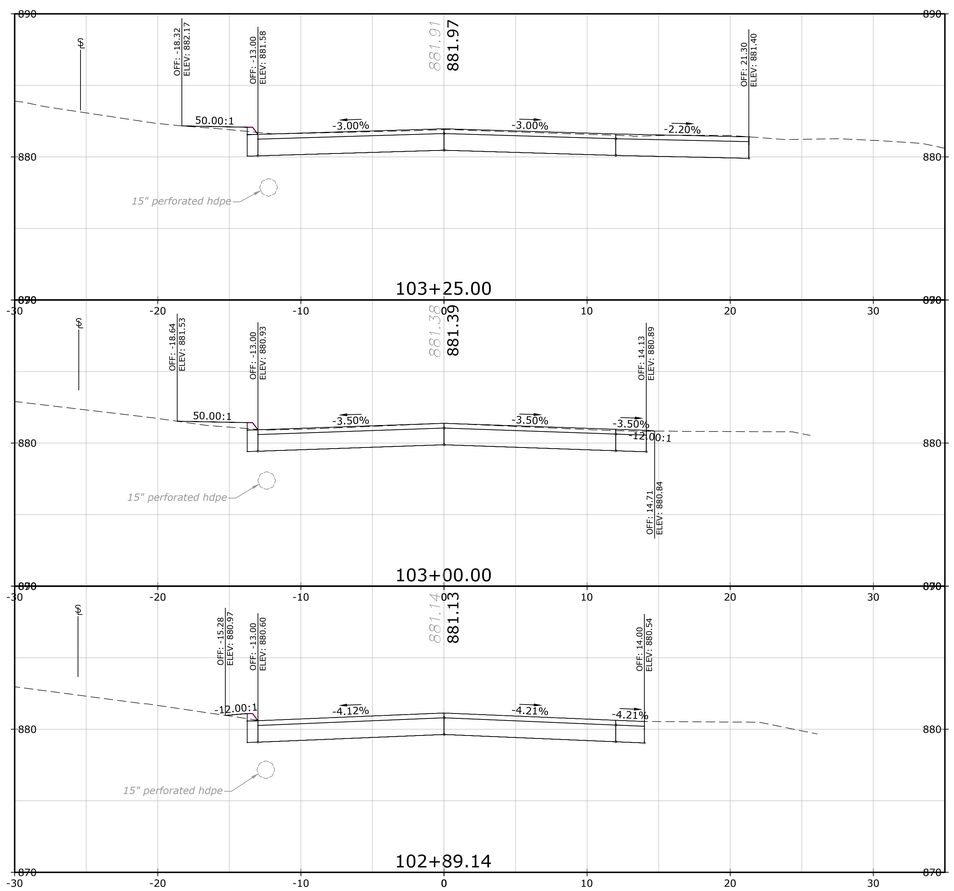
CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

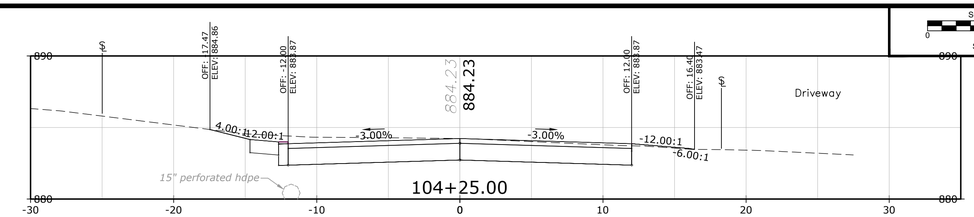
ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
PLAN & PROFILE

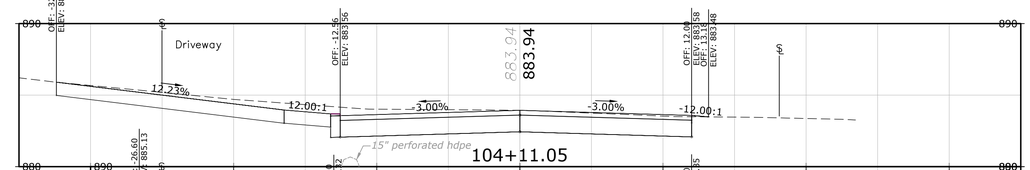
PLA-03

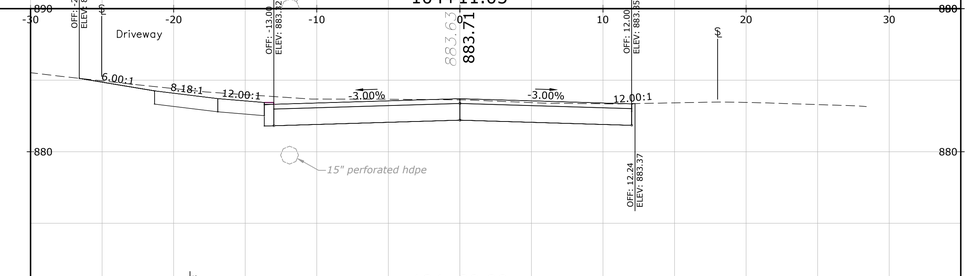
File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SFD 01-27-25 73-198 PPLAN - X-SEC.dwg Plotted: 11/17/2025 12:58 PM

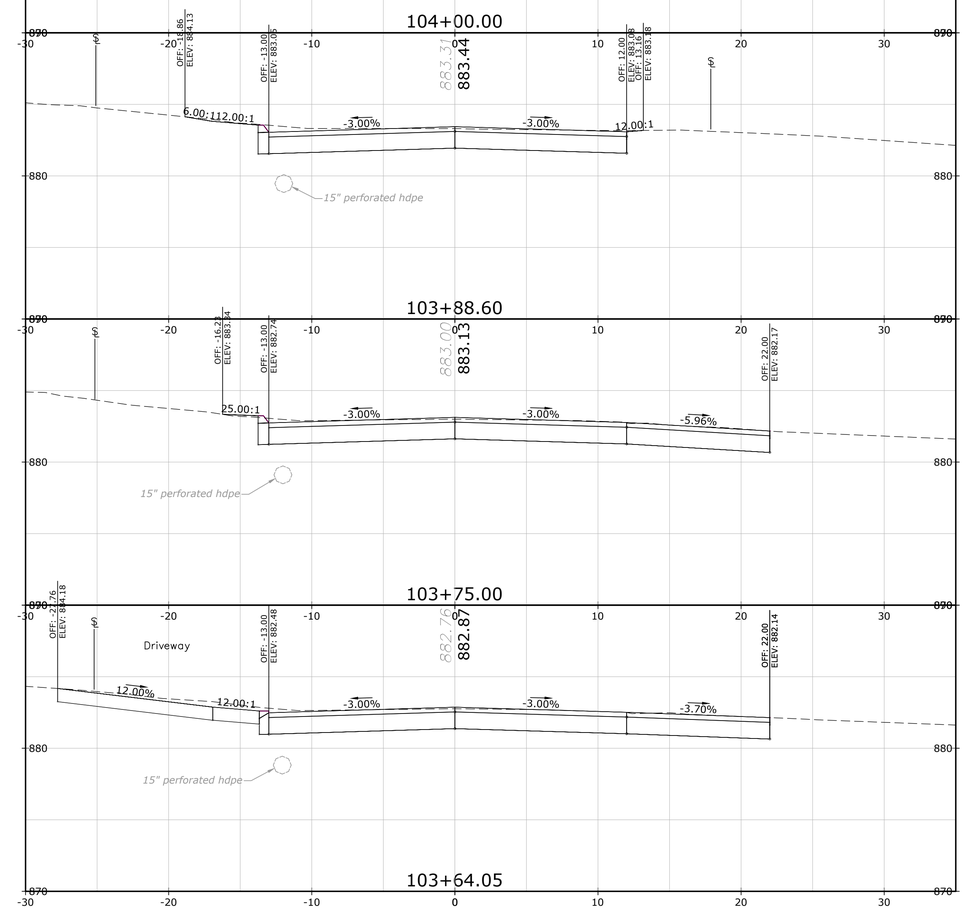












SCALE IN FEET
0 5 10
SCALE 1" = 5'

CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

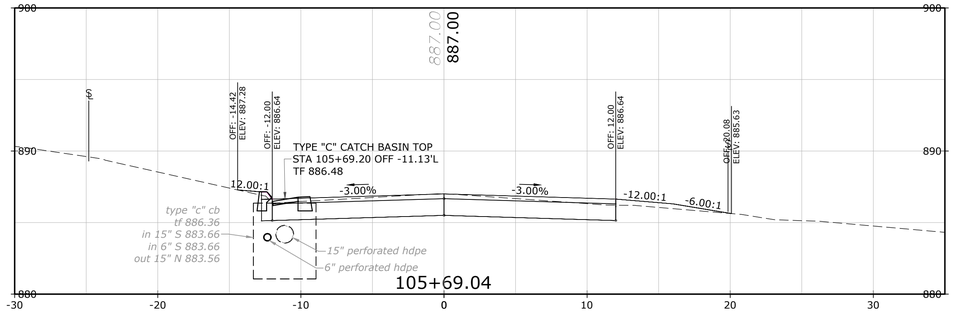
CARDINAL
ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

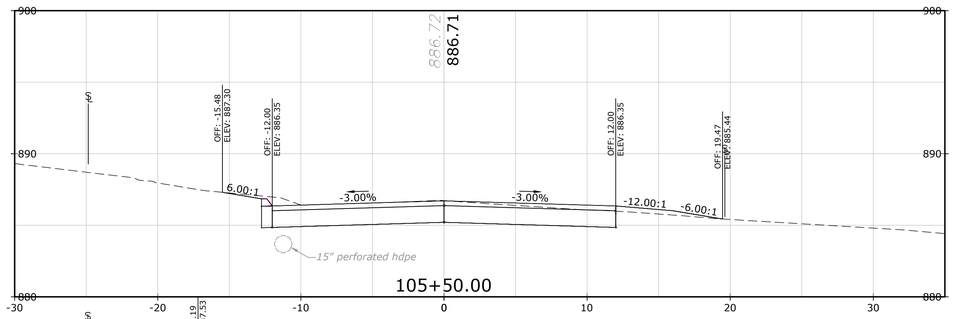
ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
CROSS SECTIONS

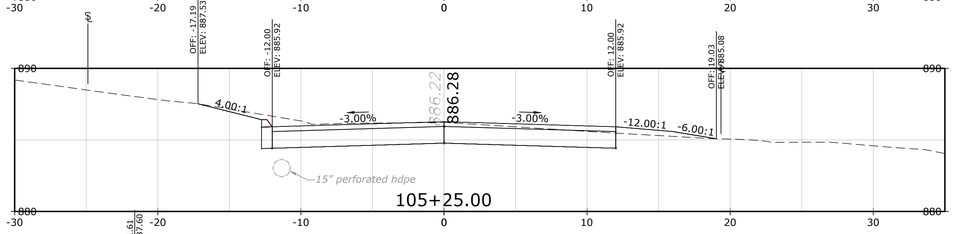
XSC-01

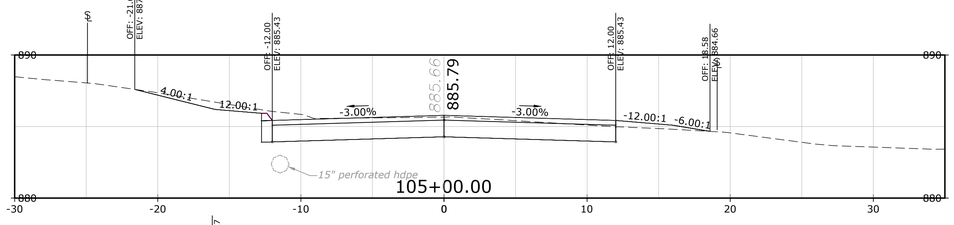
File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SPD 01-27-25 73-198 PPLAN - X-SEC.dwg Plotted: 11/17/2025 12:58 PM

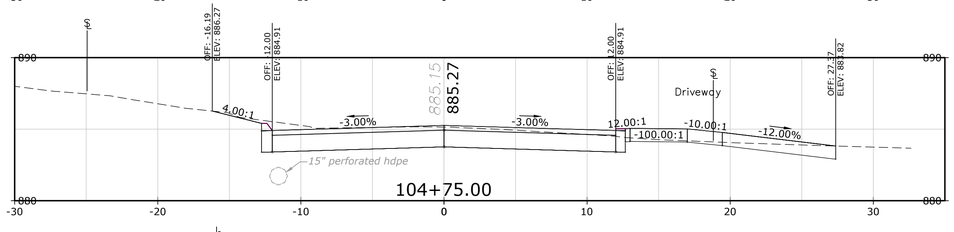
SCALE IN FEET
0 5 10
SCALE 1" = 5'

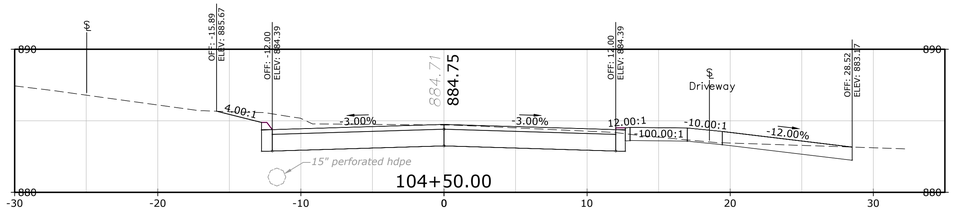


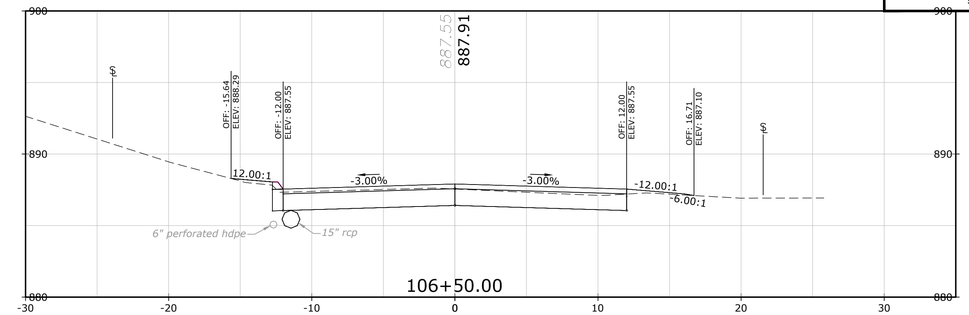


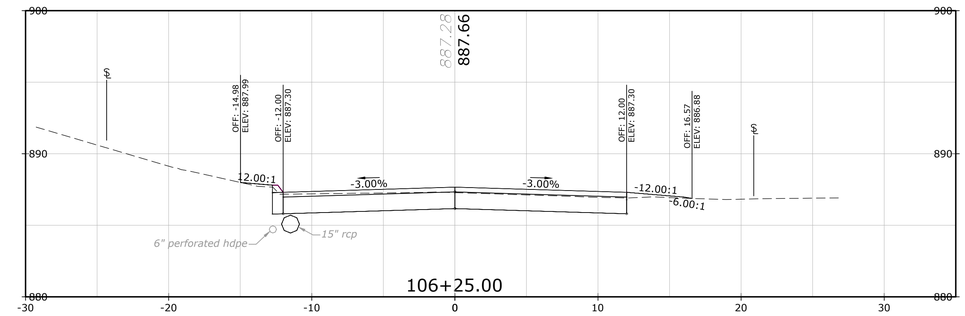


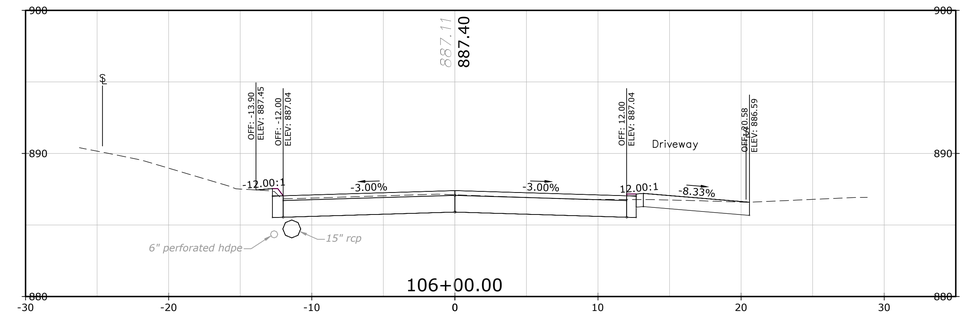


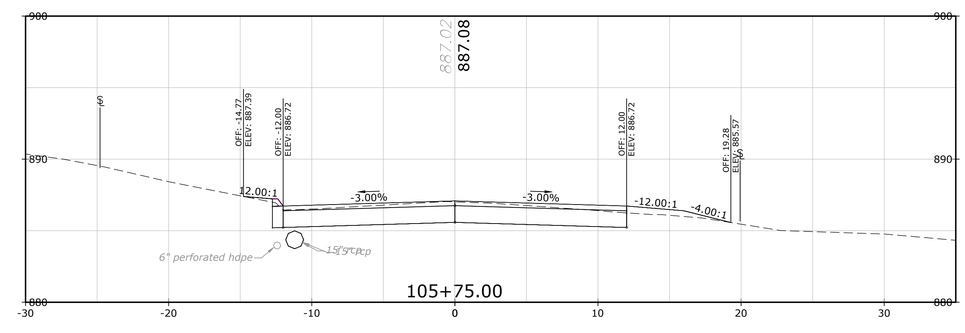












CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

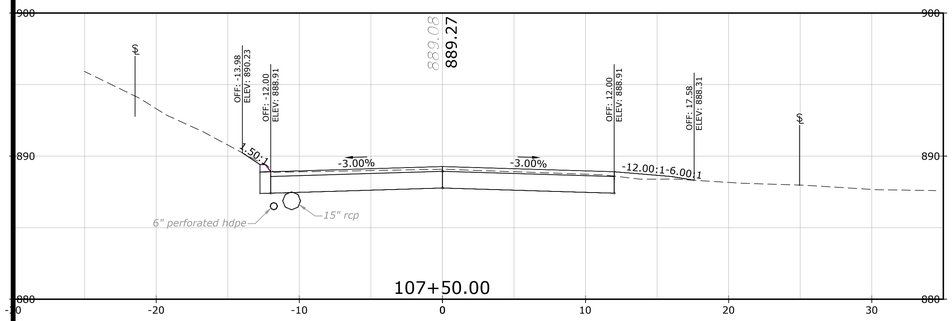
CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

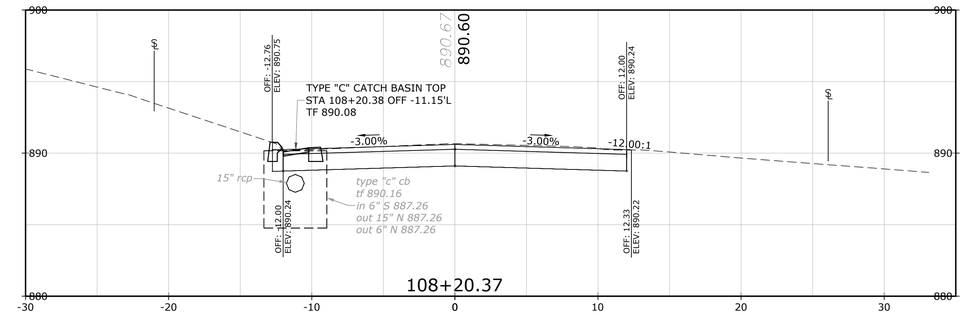
ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
CROSS SECTIONS

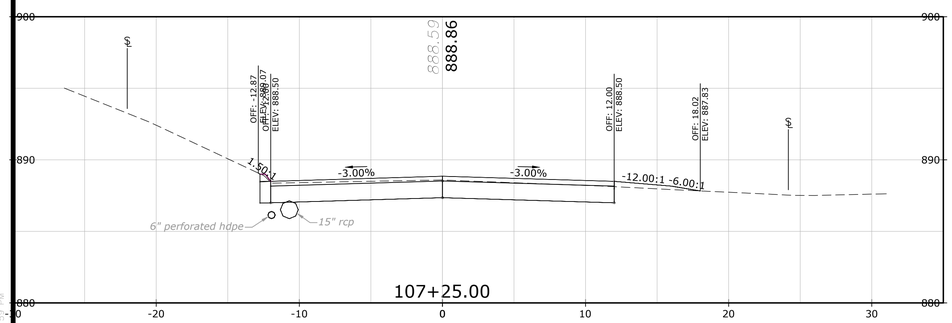
XSC-02

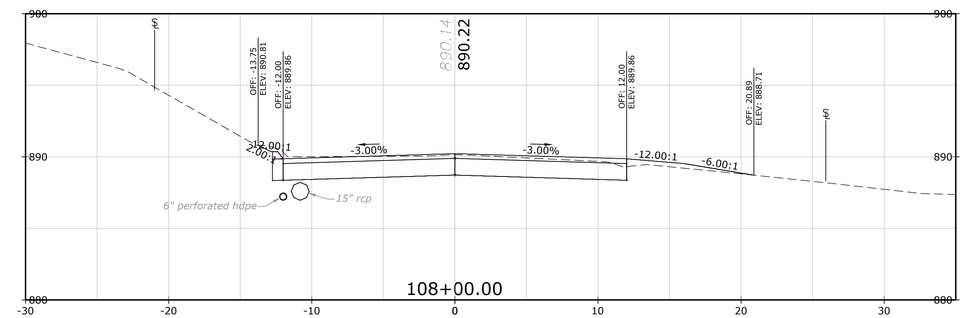
File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SFD 01-27-25 73-108 PP.dwg – X-SEC.dwg Plotted: 11/17/2025 12:58 PM

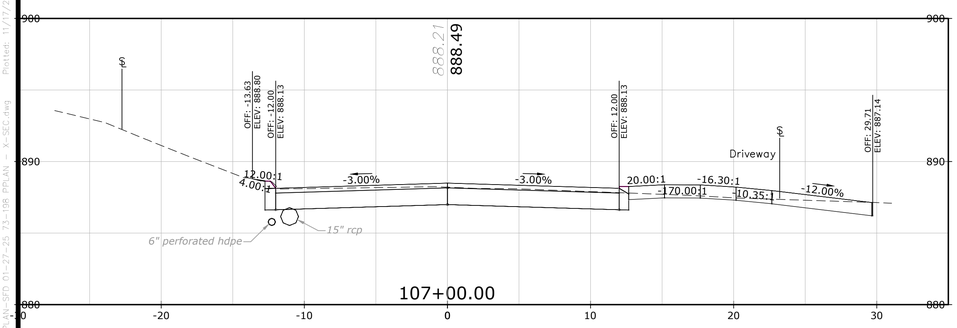
SCALE IN FEET
0 5 10
SCALE 1" = 5'

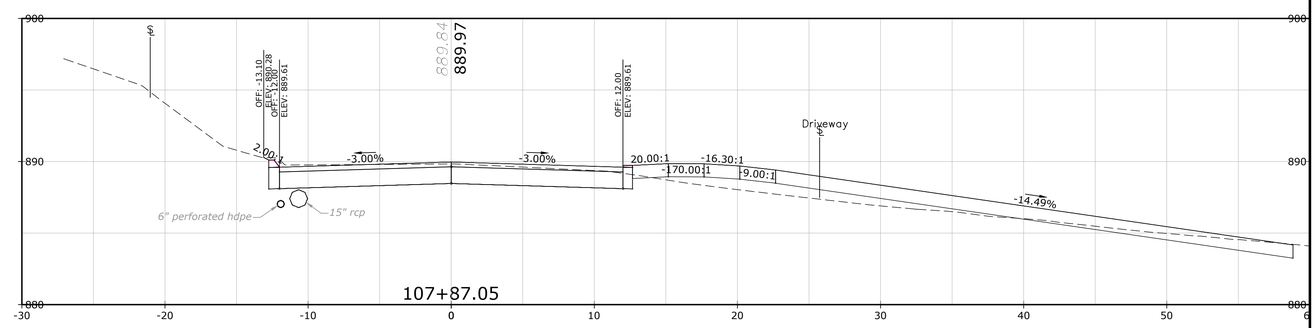


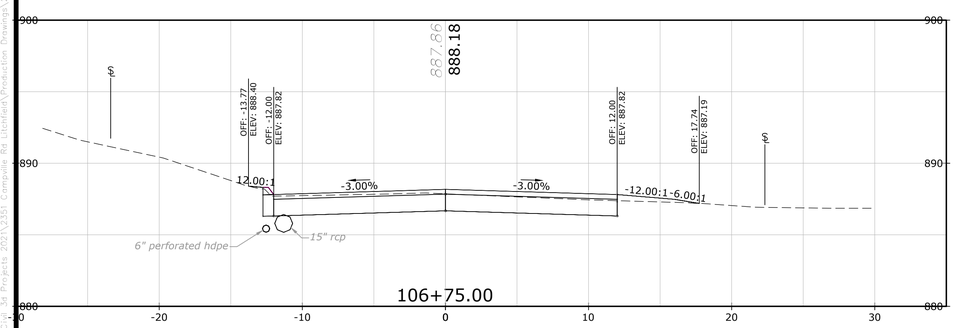


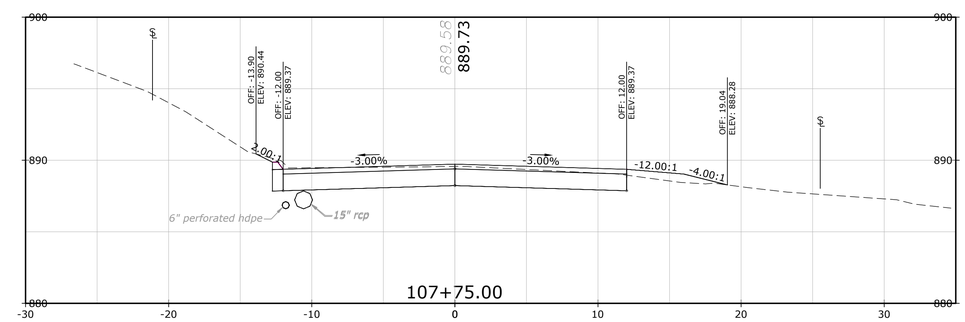












CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

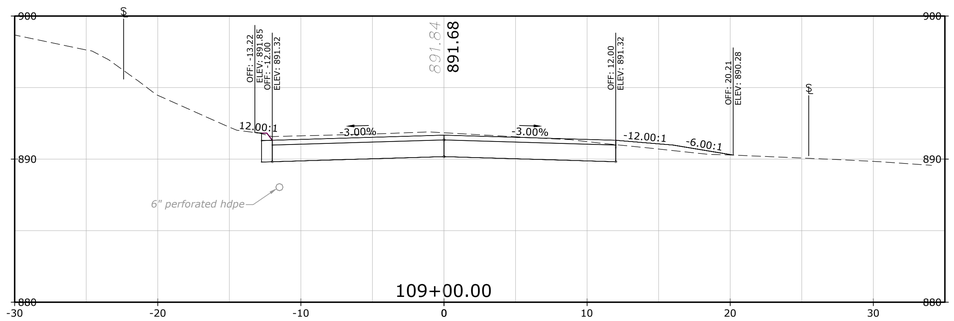
CARDINAL
ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

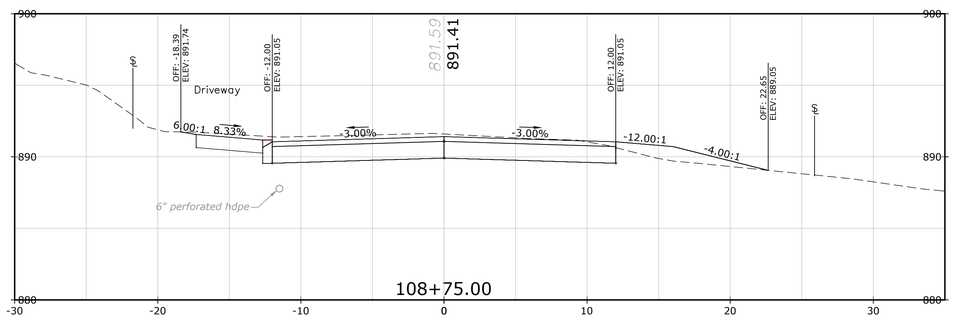
ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
CROSS SECTIONS

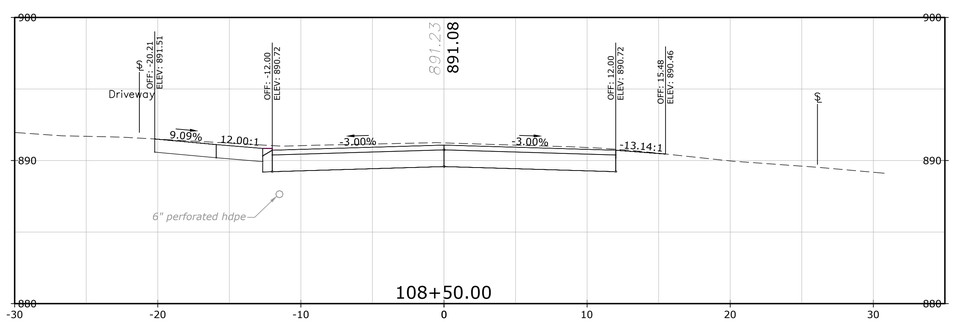
XSC-03

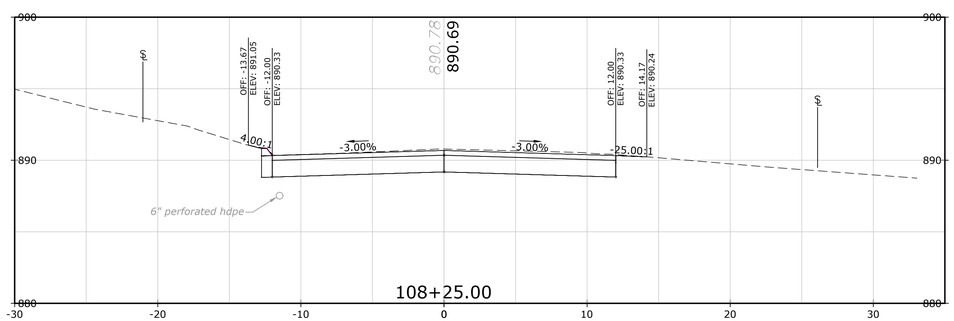
File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SPD 01-27-25 73-198 PPLAN - X-SEC.dwg Plotted: 11/17/2025 12:59 PM

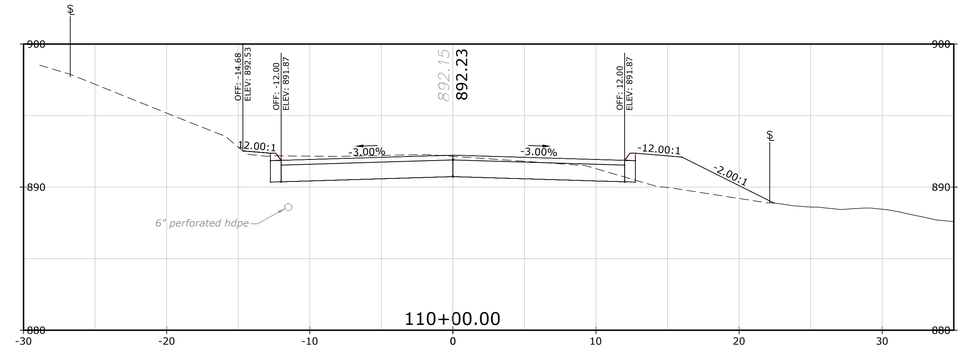
SCALE IN FEET
0 5 10
SCALE 1" = 5'

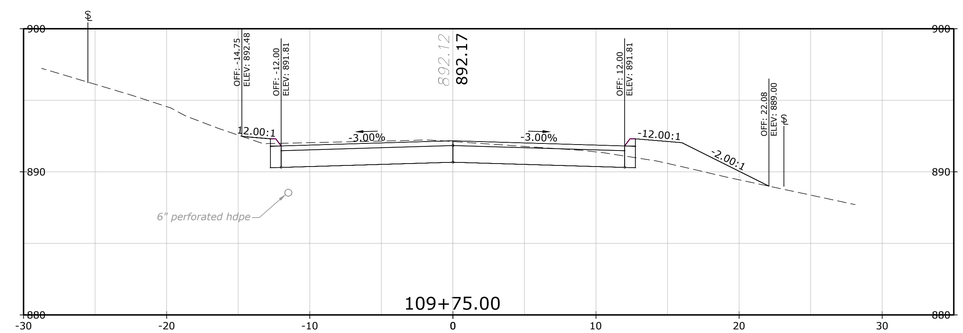


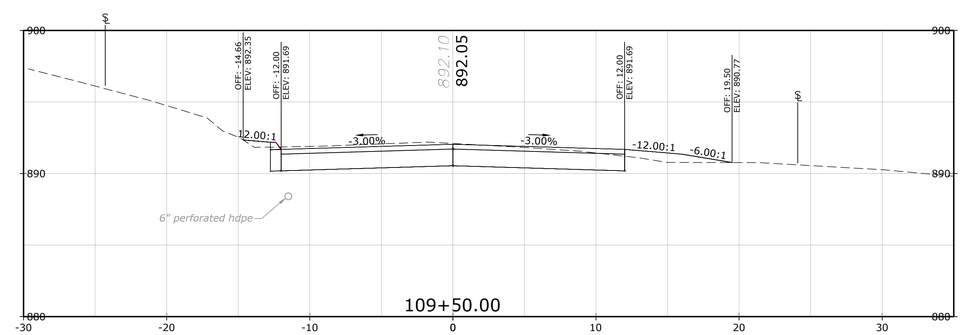


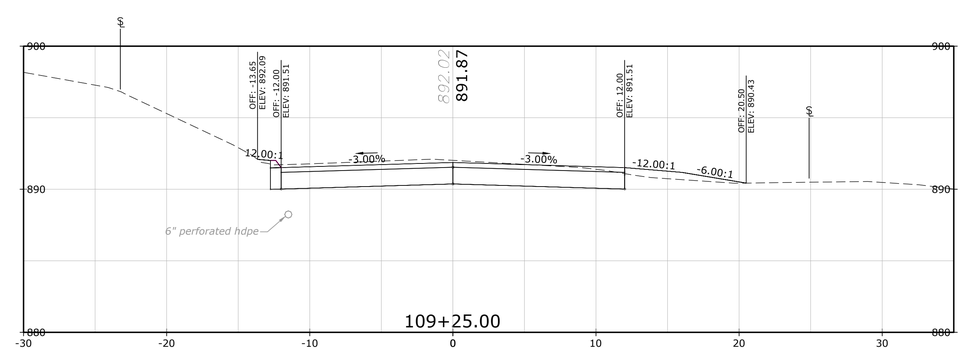












CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

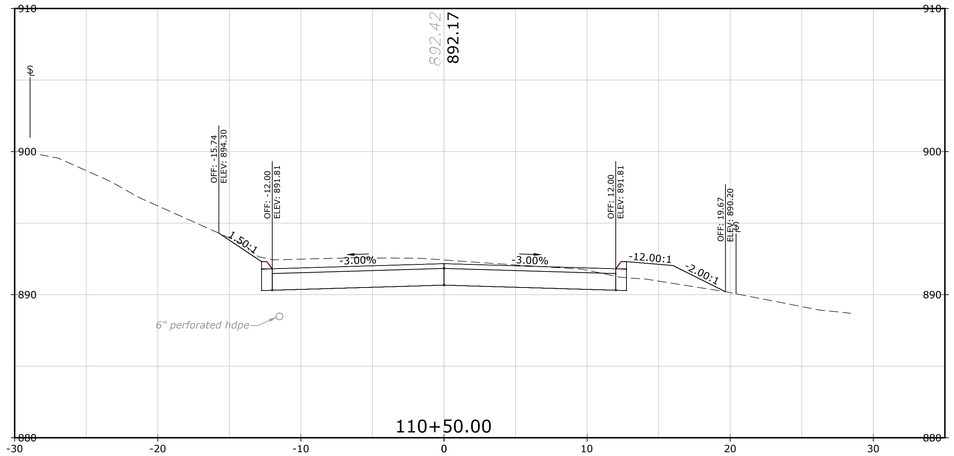
CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-2106

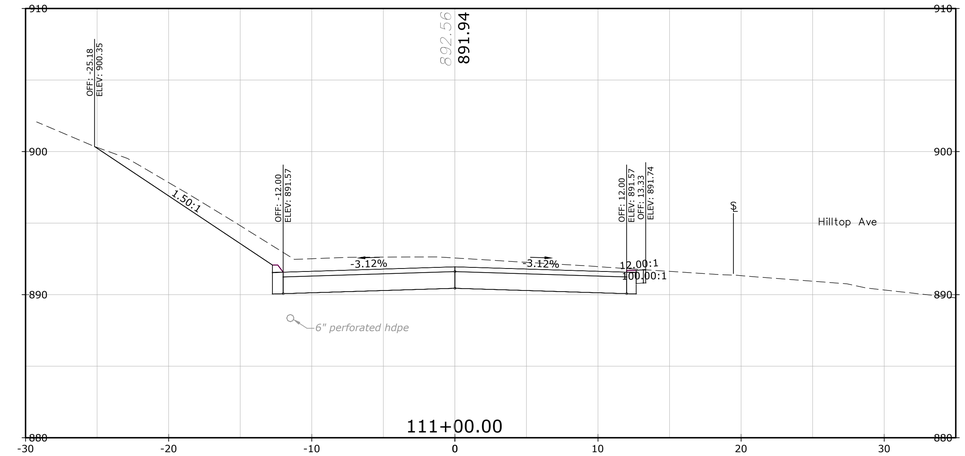
ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
CROSS SECTIONS

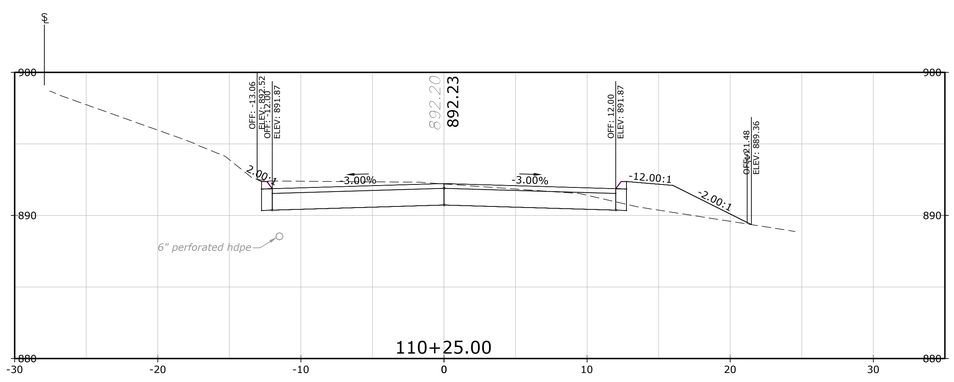
XSC-04

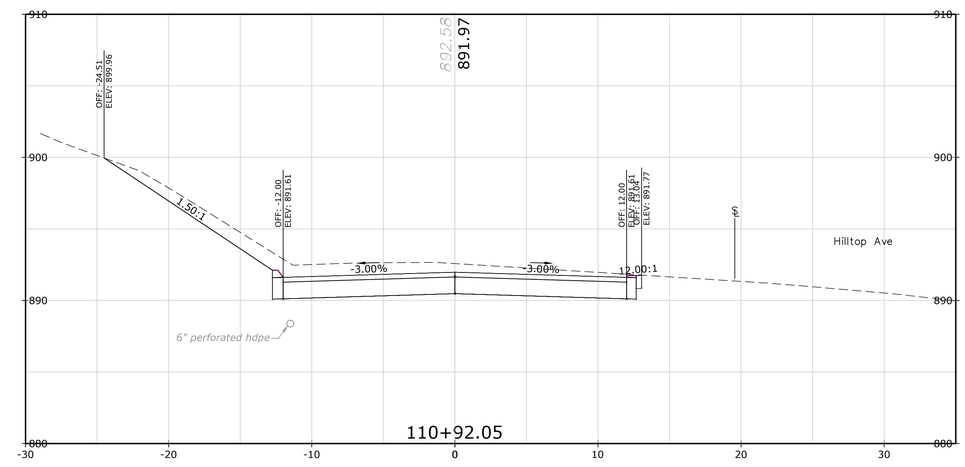
File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SPD 01-27-25 73-198 PP(AN) - X-SEC.dwg Plotted: 11/17/2025 12:59 PM

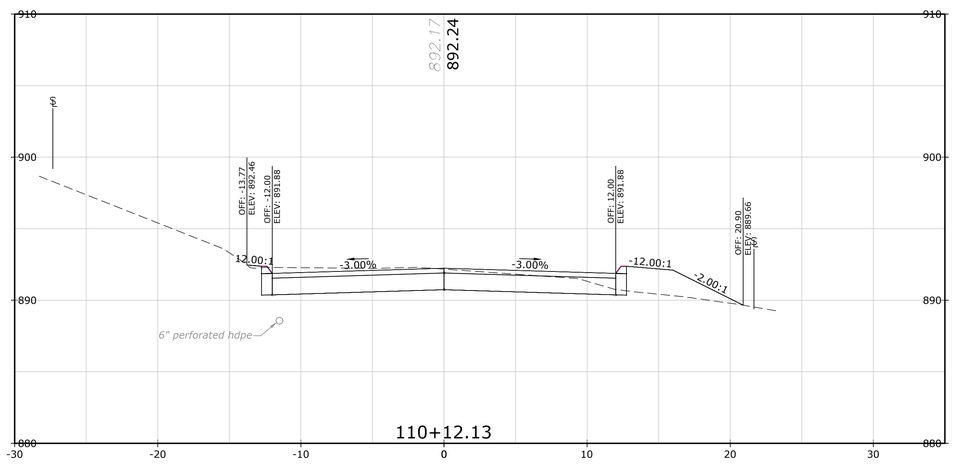
SCALE IN FEET
0 5 10
SCALE 1" = 5'

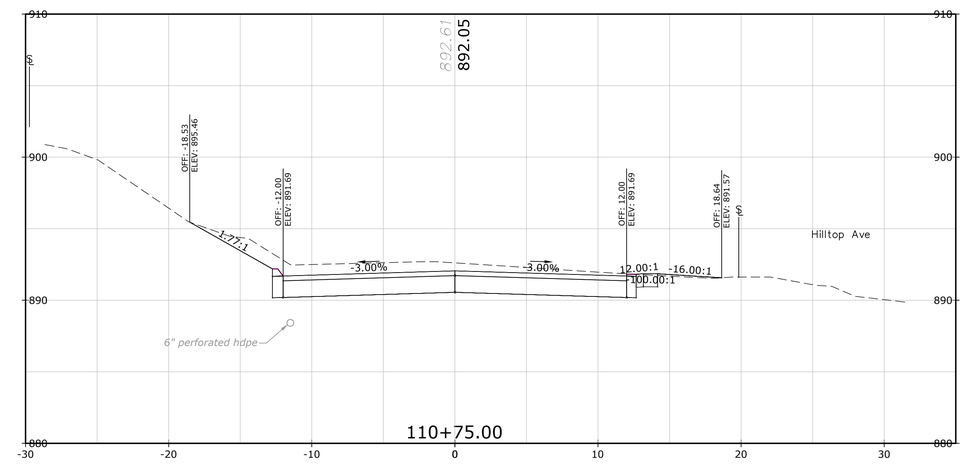












CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

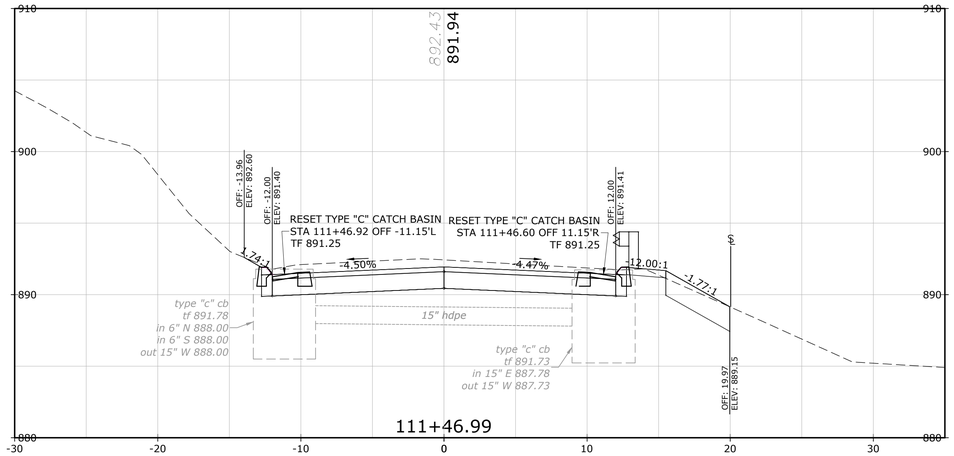
CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

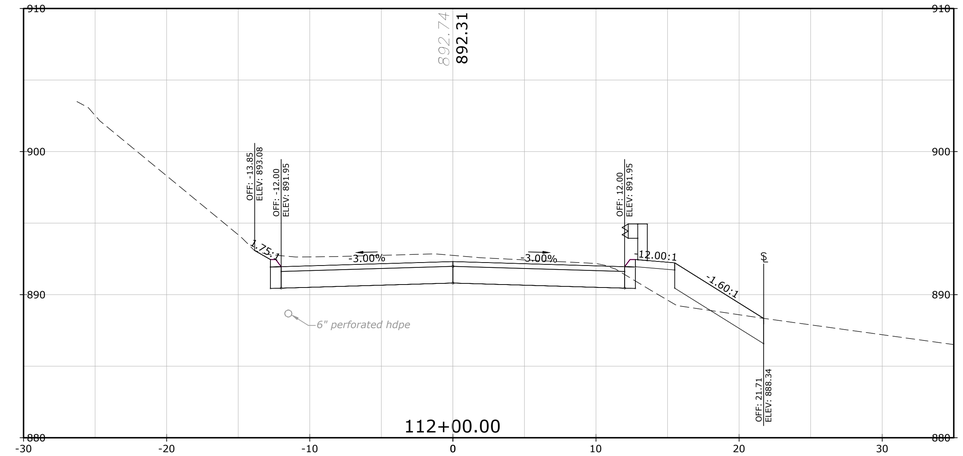
ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
CROSS SECTIONS

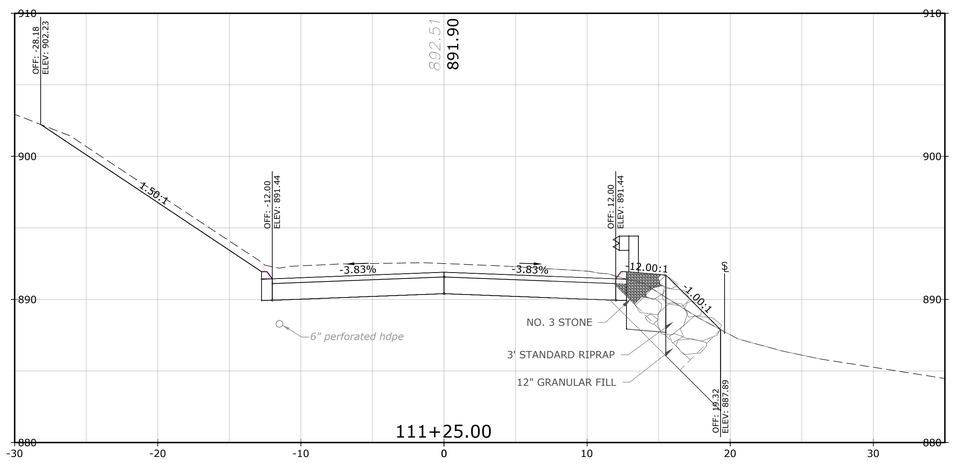
XSC-05

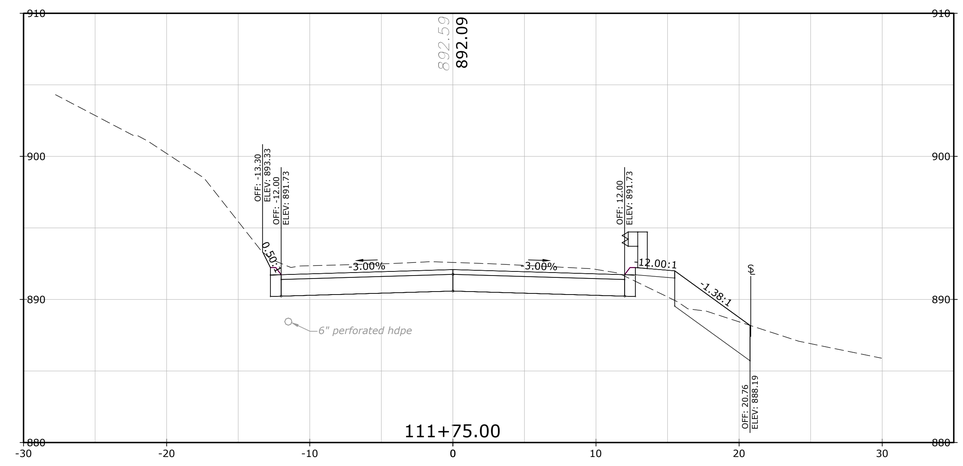
P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SFD 01-27-25 73-198 PP.AN - X-SEC.dwg Plotted: 11/17/2025 1:01 PM

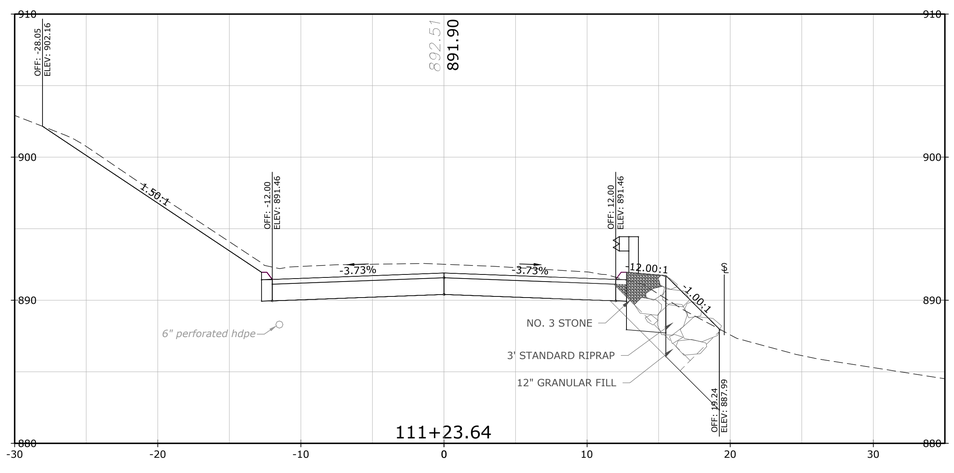
SCALE IN FEET
0 5 10
SCALE 1" = 5'

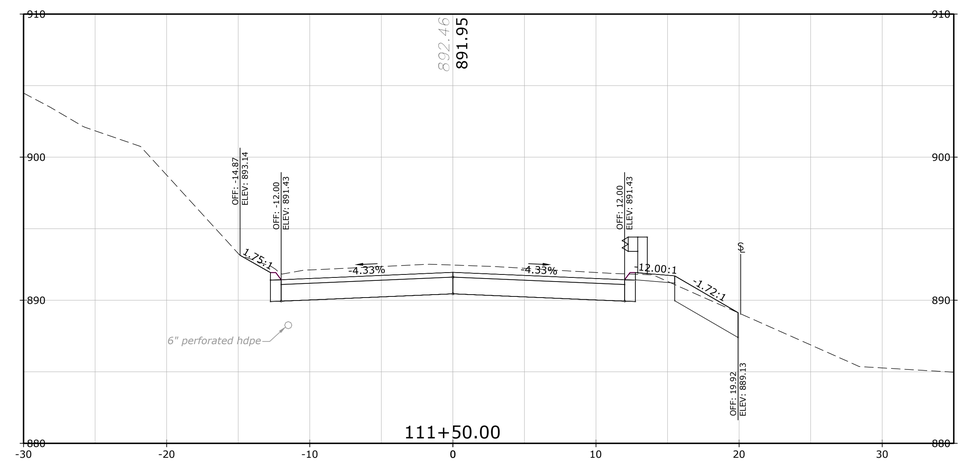












CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

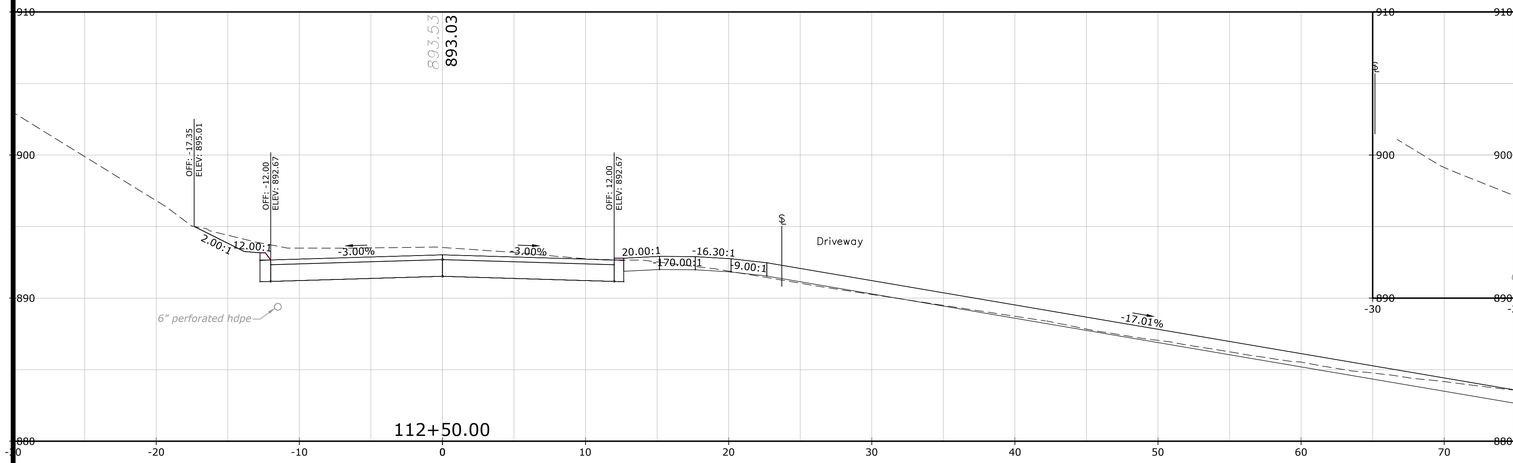
CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

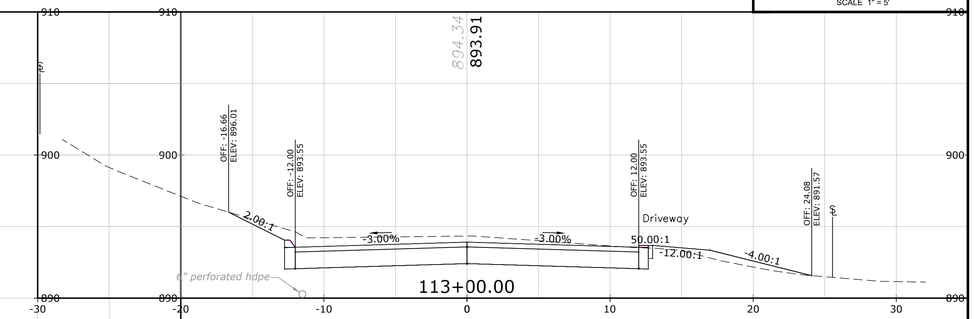
ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
CROSS SECTIONS

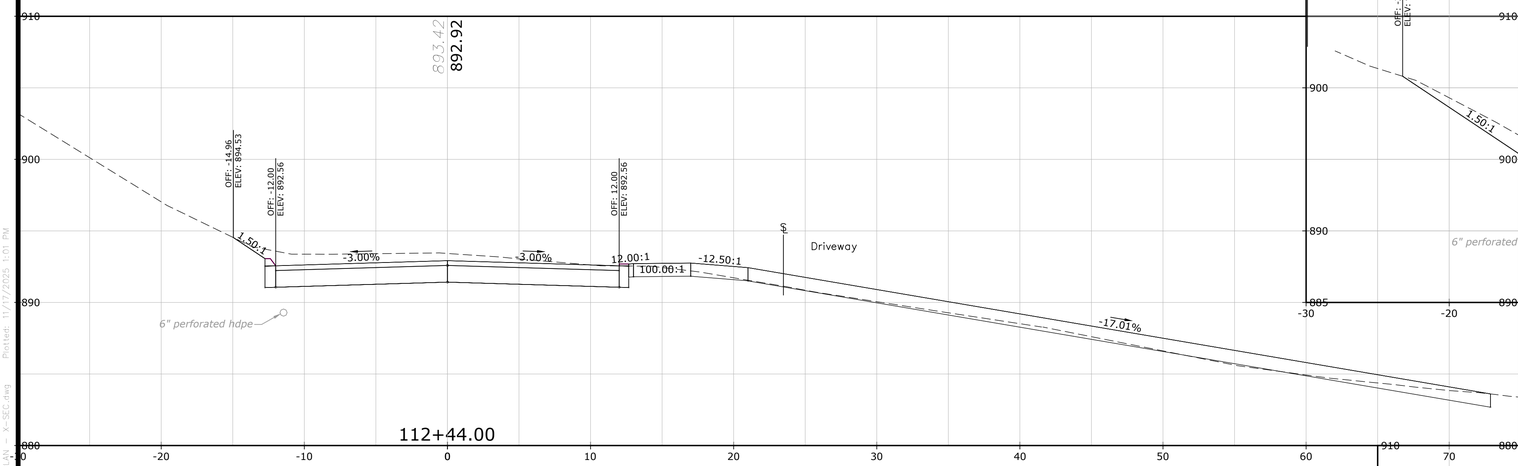
XSC-06

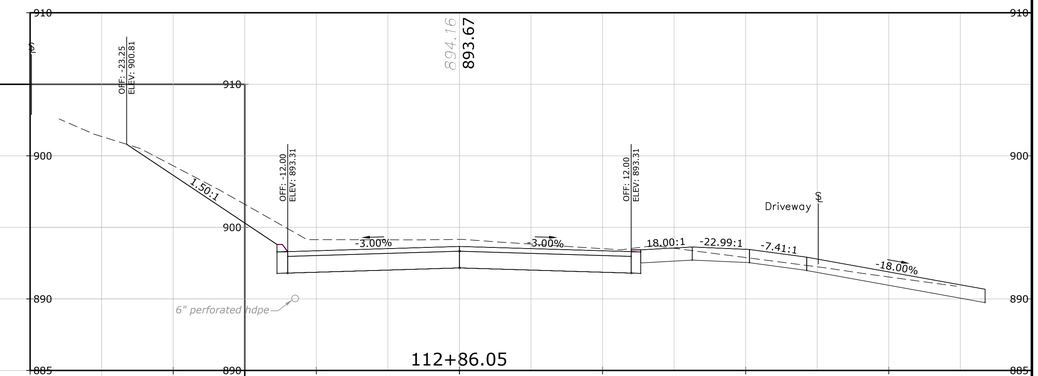
File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SFD 01-27-25 73-198 PP.dwg - X-SEC.dwg Plotted: 11/17/2025 1:01 PM

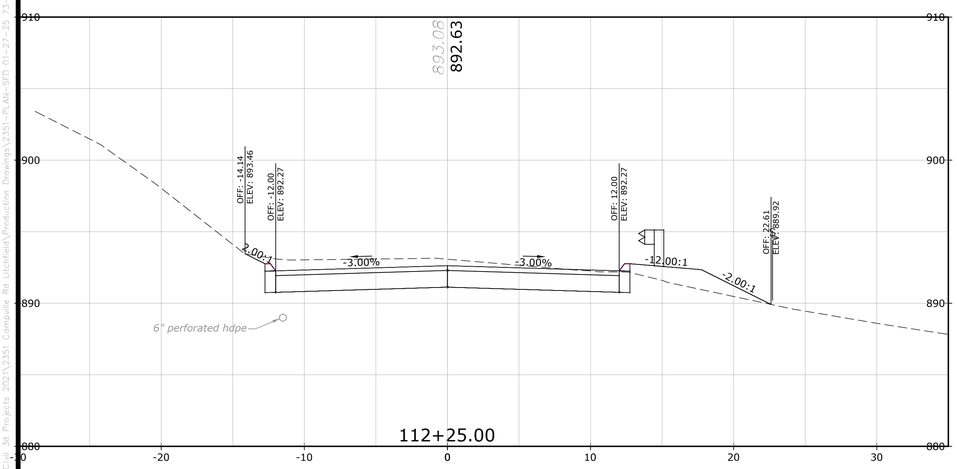
SCALE IN FEET
0 5 10
SCALE 1" = 5'

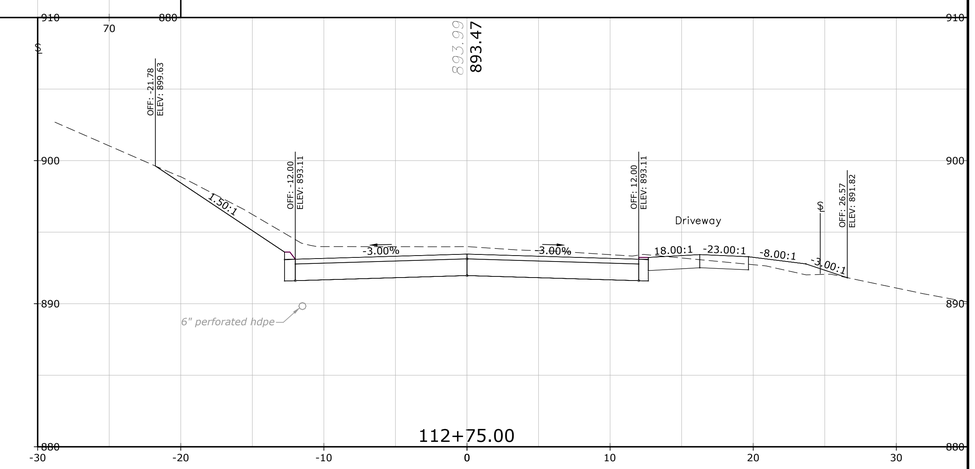












CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

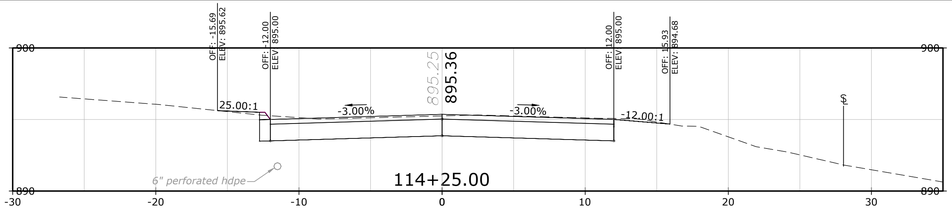
CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

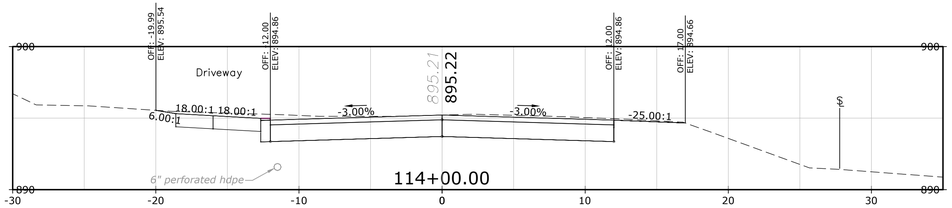
ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
CROSS SECTIONS

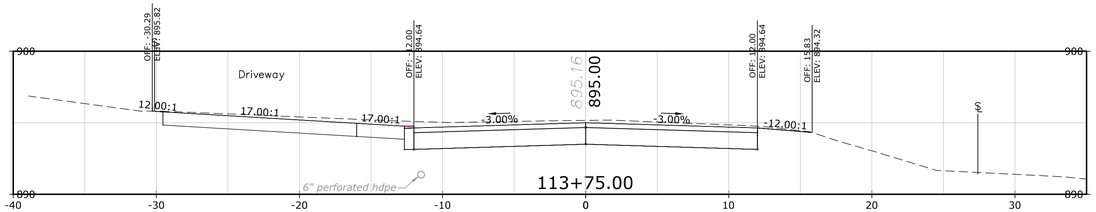
XSC-07

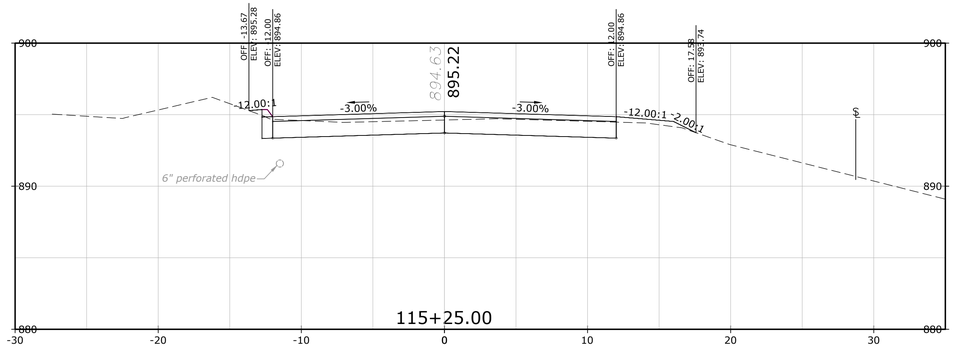
File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SFD 01-27-25 73-198 PP-AN - X-SEC.dwg Plotted: 11/17/2025 1:01 PM

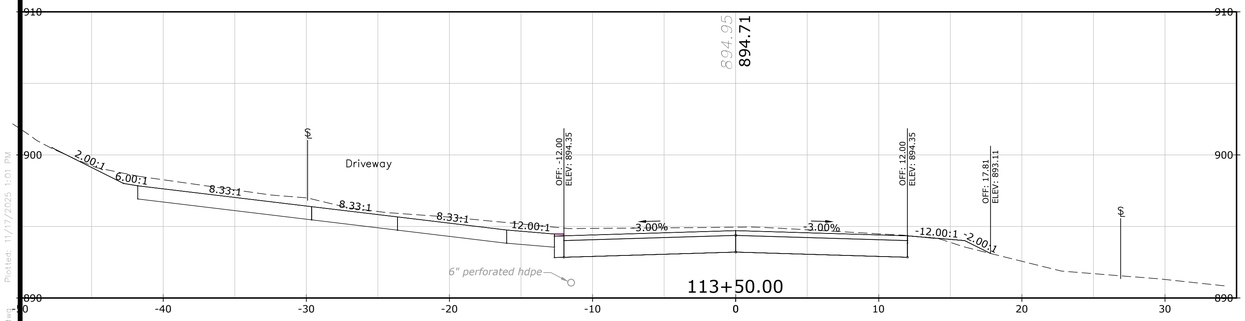
SCALE IN FEET
0 5 10
SCALE 1" = 5'

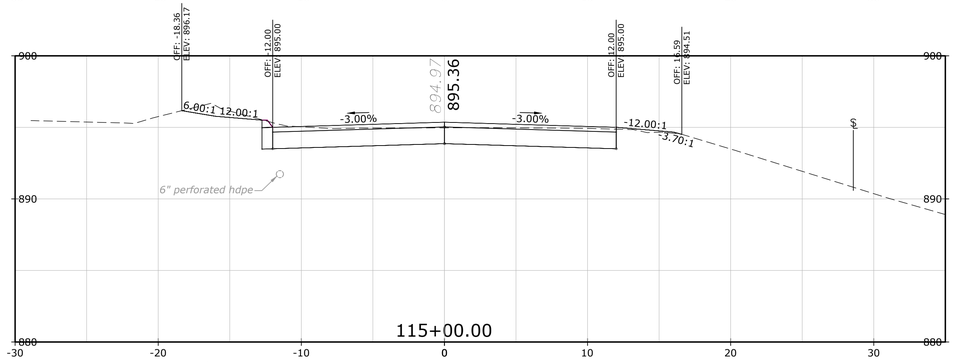


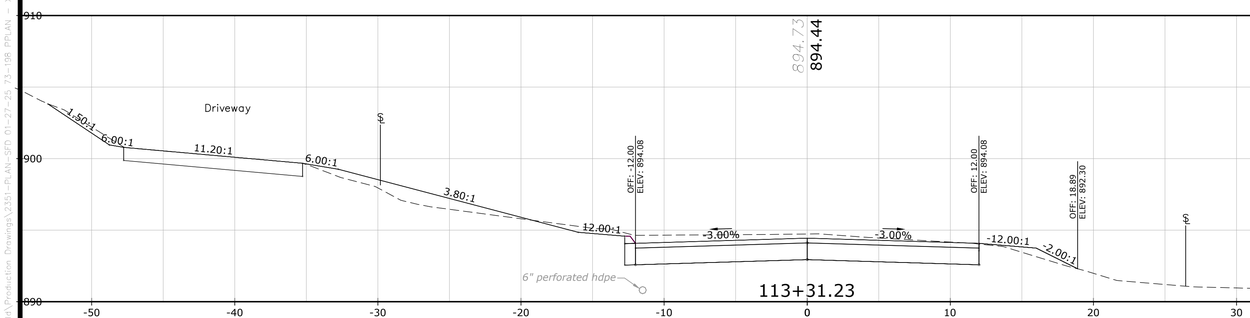


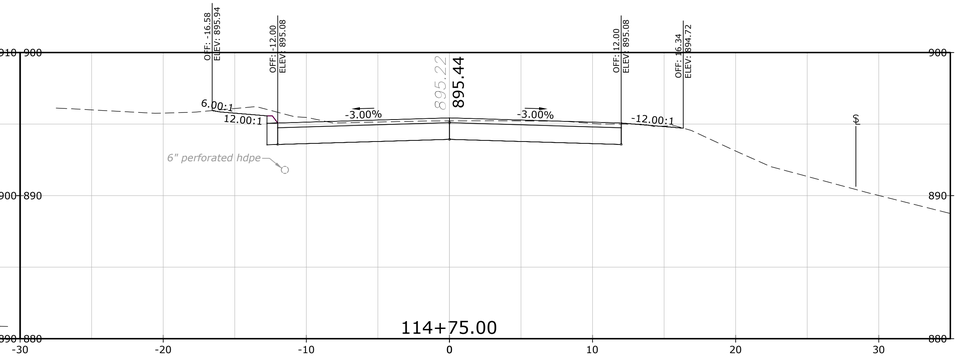


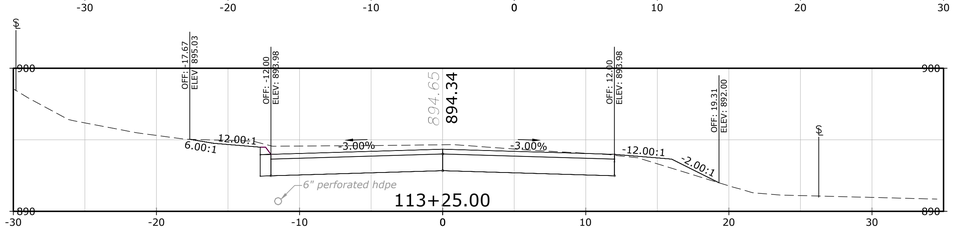


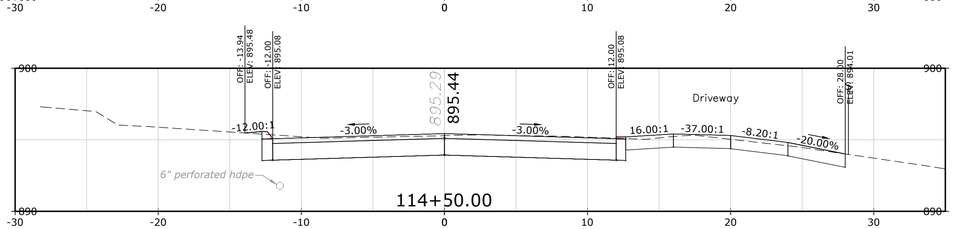












CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

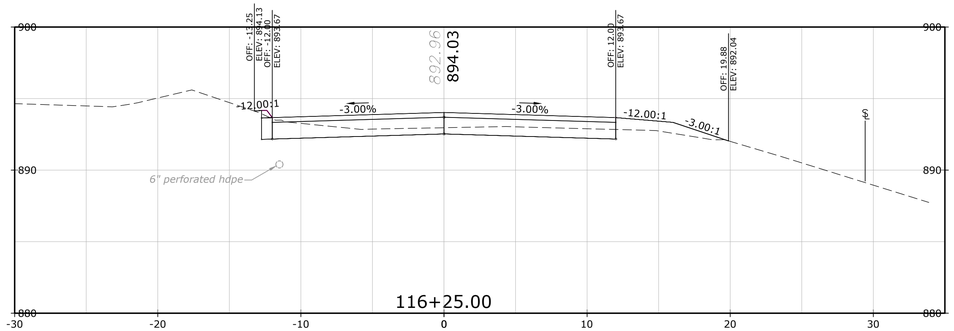
CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

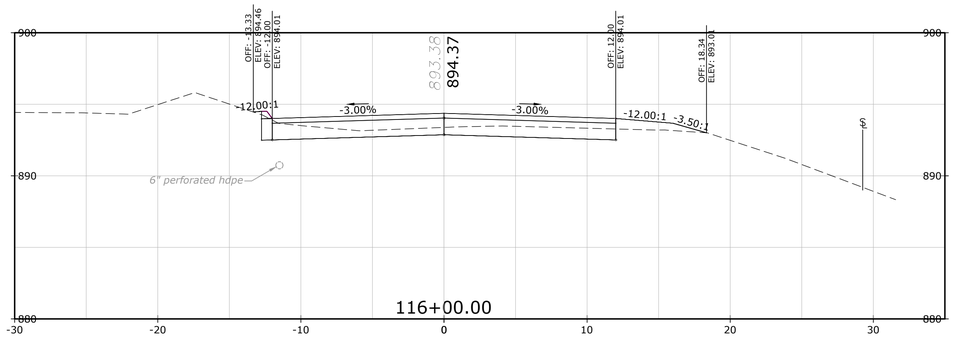
ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
CROSS SECTIONS

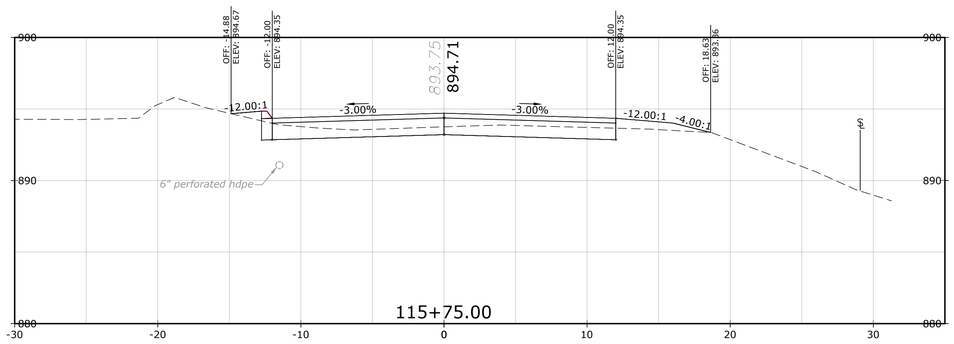
XSC-08

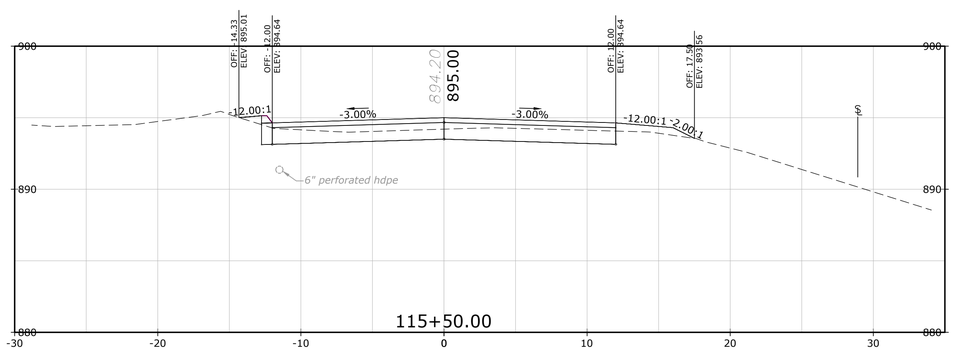
Plotted: 11/17/2025 1:01 PM
File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SFD 01-27-25 73-198 RPLAN - X-SEC.dwg

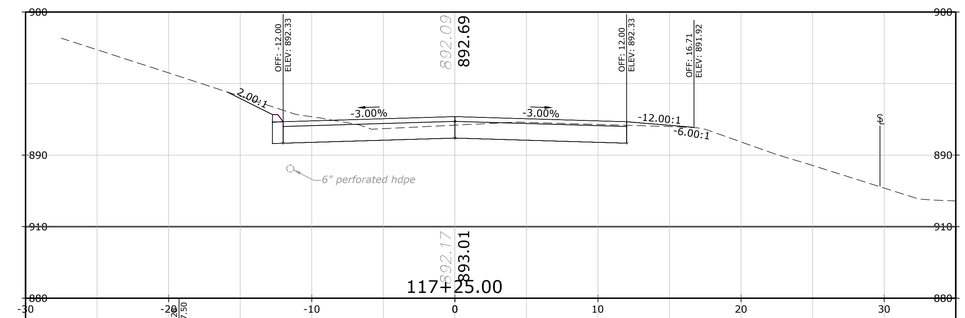
SCALE IN FEET
0 5 10
SCALE 1" = 5'

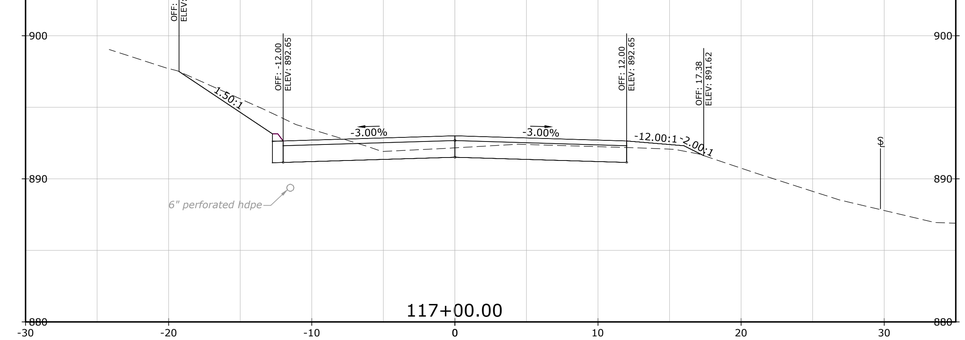


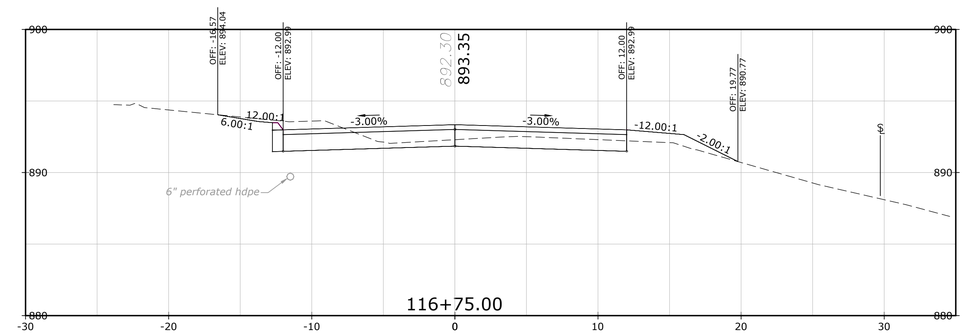


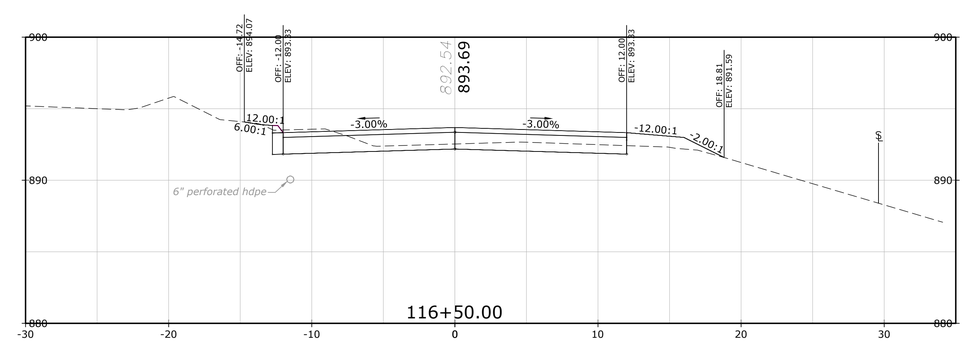












CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

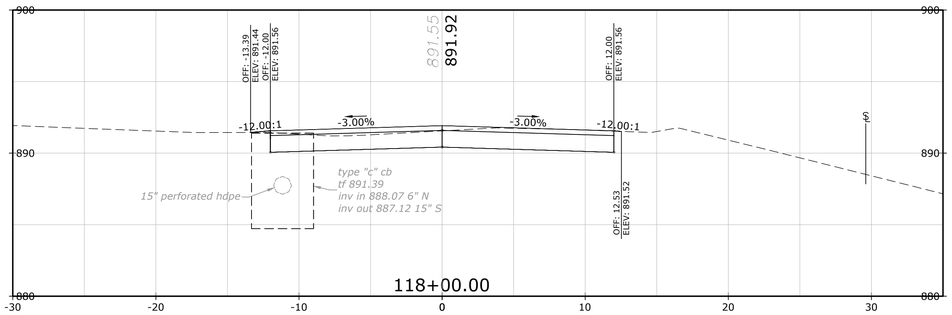
CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

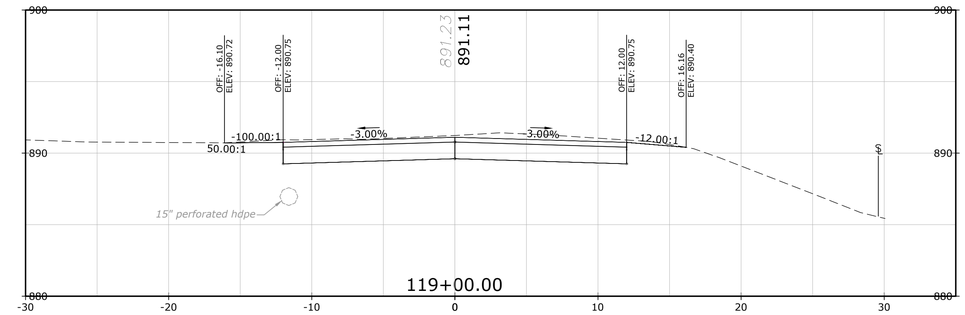
ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
CROSS SECTIONS

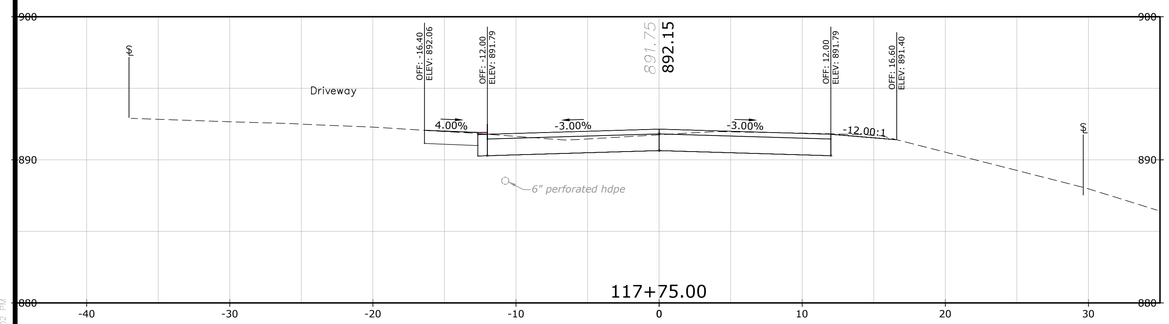
XSC-09

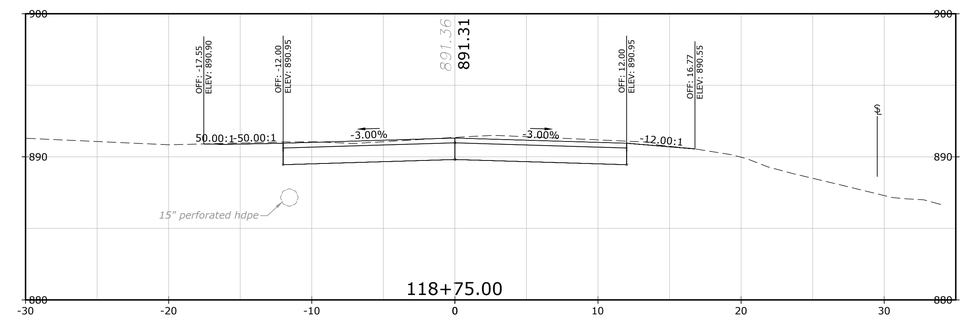
File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SPD 01-27-25 73-198 PPLAN - X-SEC.dwg Plotted: 11/17/2025 1:01 PM

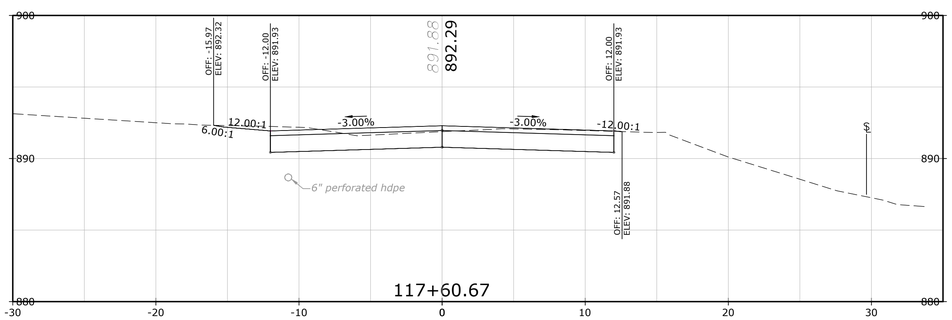
SCALE IN FEET
0 5 10
SCALE 1" = 5'

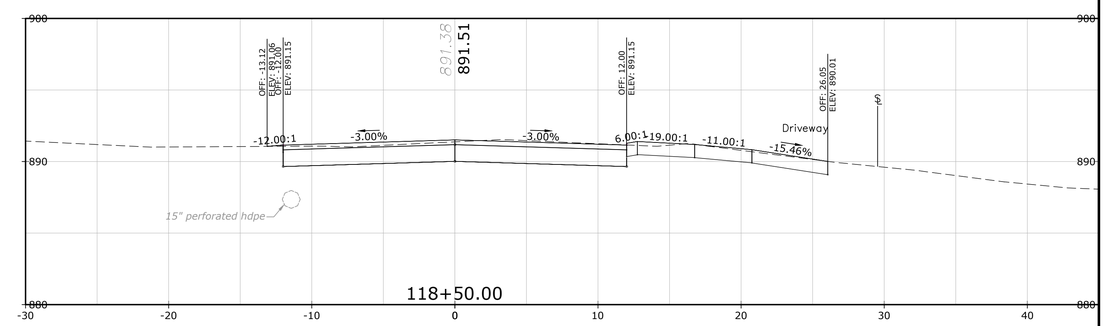


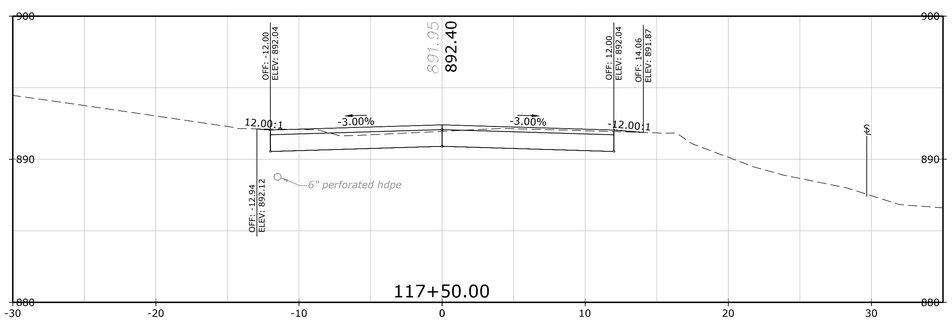


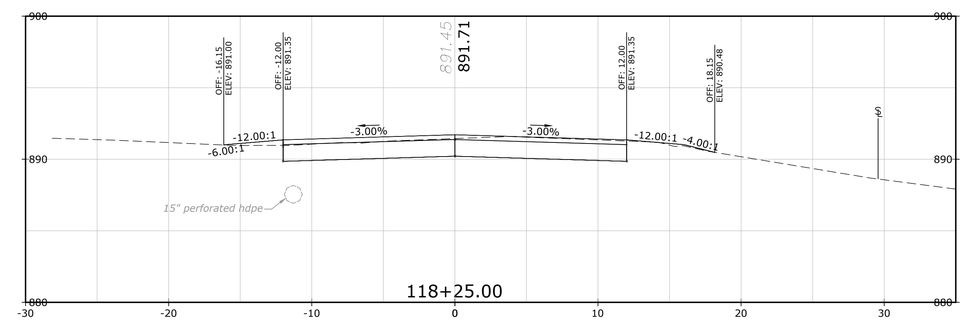












CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

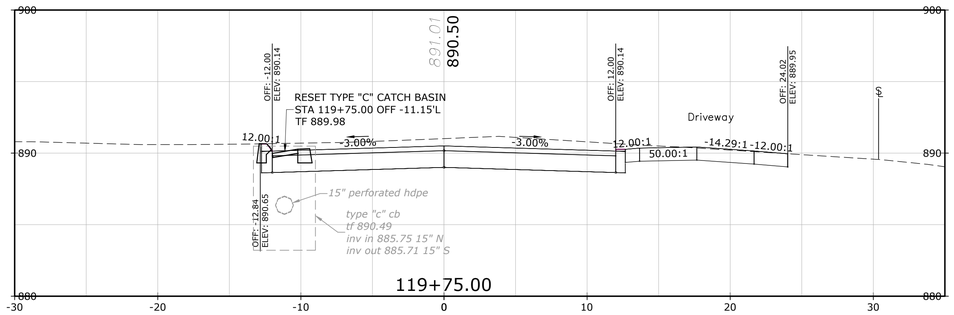
CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

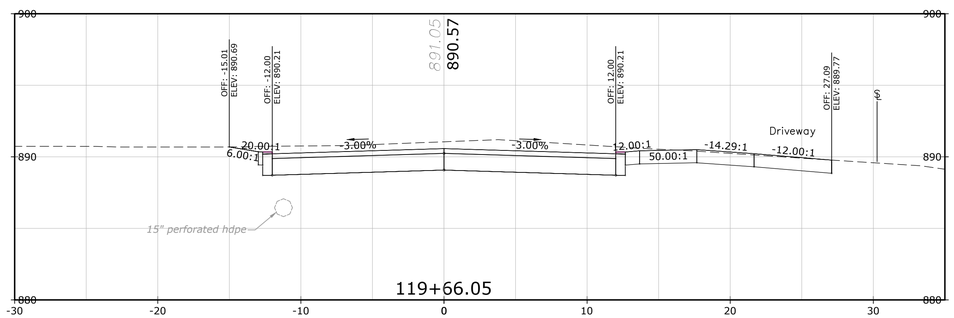
ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
CROSS SECTIONS

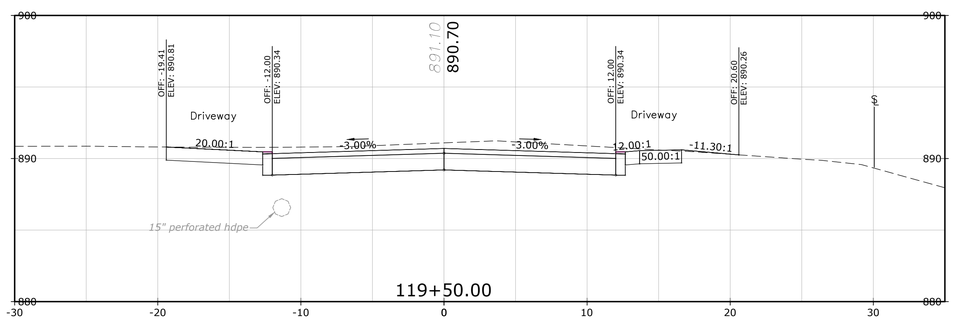
XSC-10

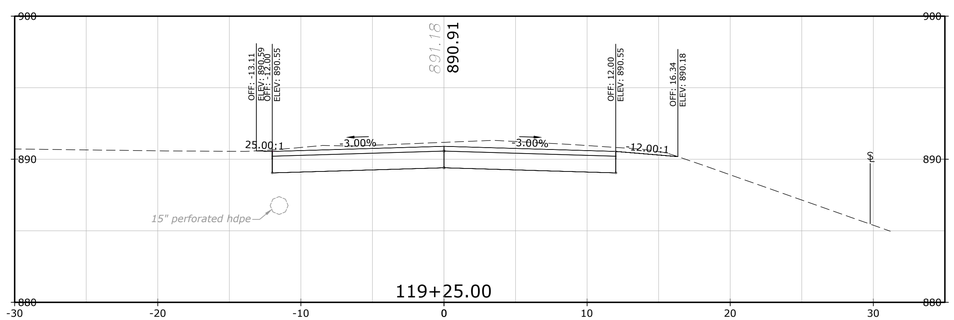
File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SPD 01-27-25 73-198 PPLAN - X-SEC.dwg Plotted: 11/17/2025 1:02 PM

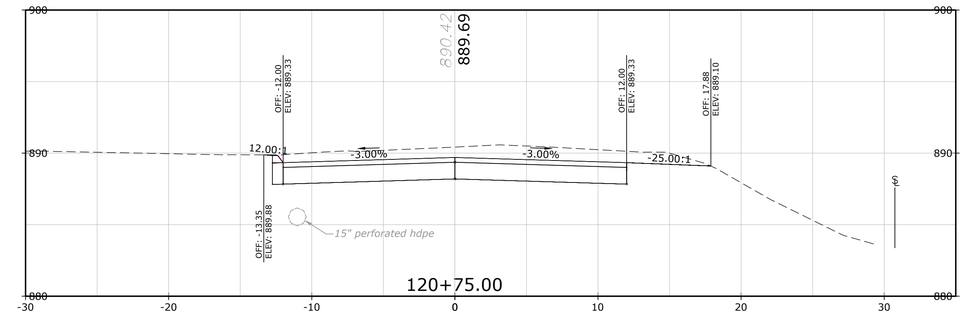
SCALE IN FEET
0 5 10
SCALE 1" = 5'

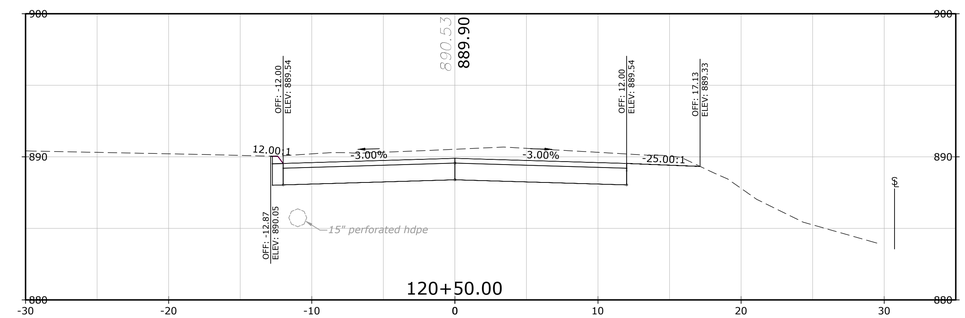


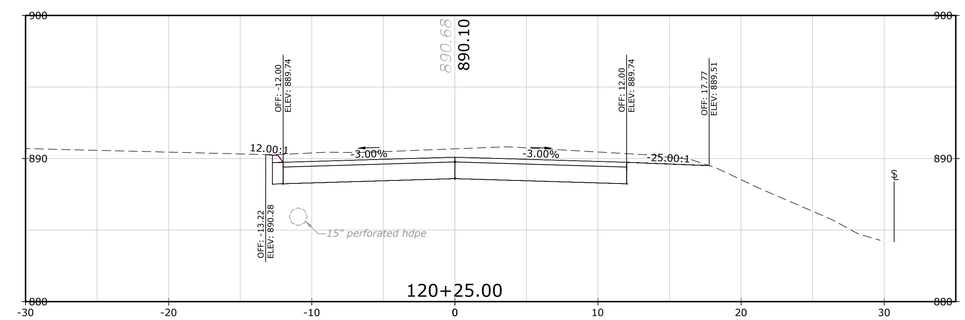


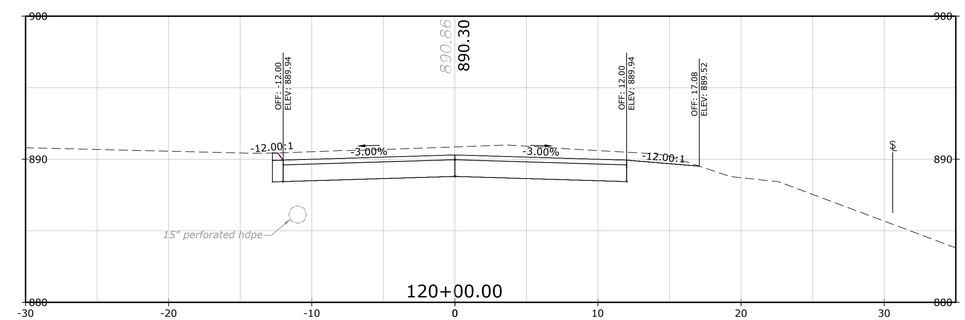












CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

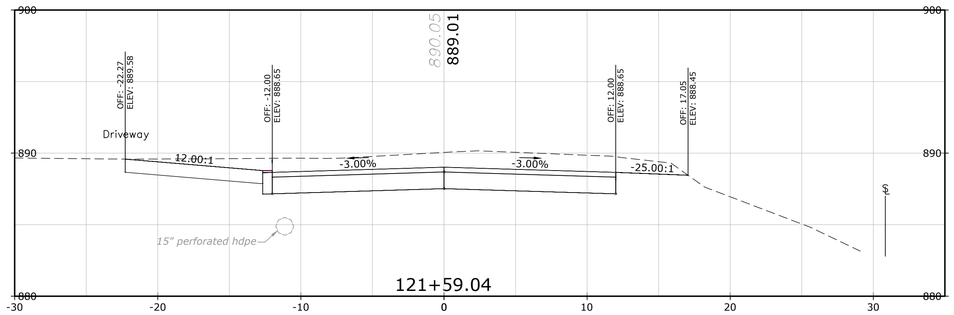
CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

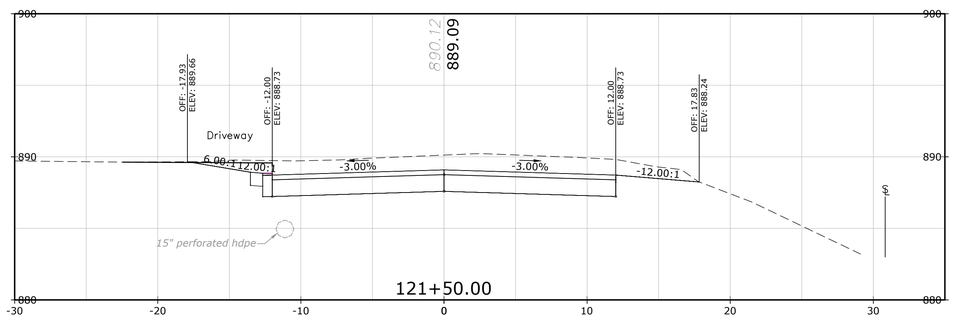
ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
CROSS SECTIONS

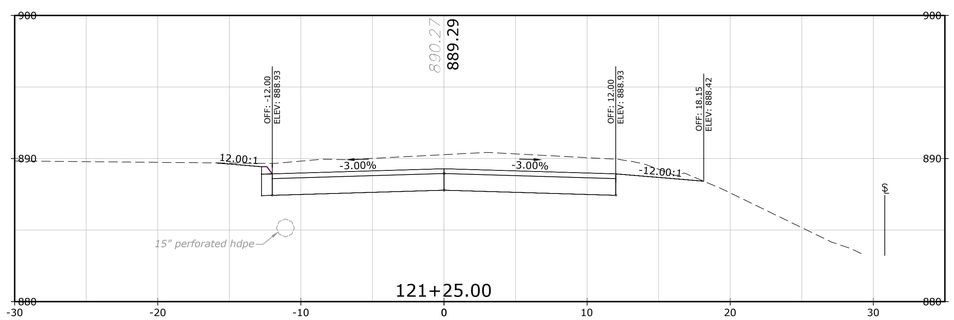
XSC-11

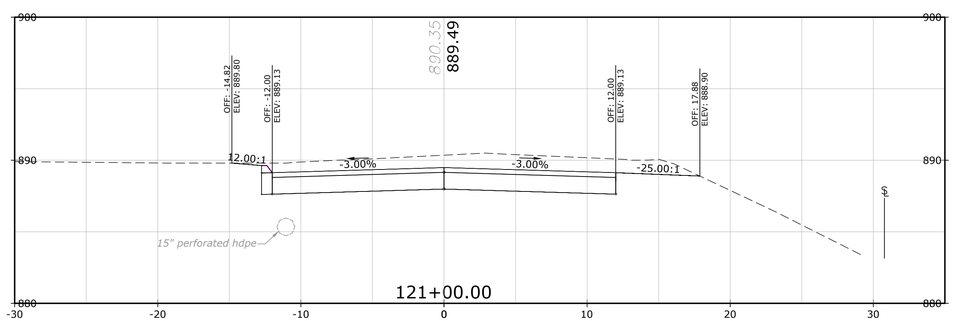
File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SPD 01-27-25 73-198 PPLAN - X-SEC.dwg Plotted: 11/17/2025 1:02 PM

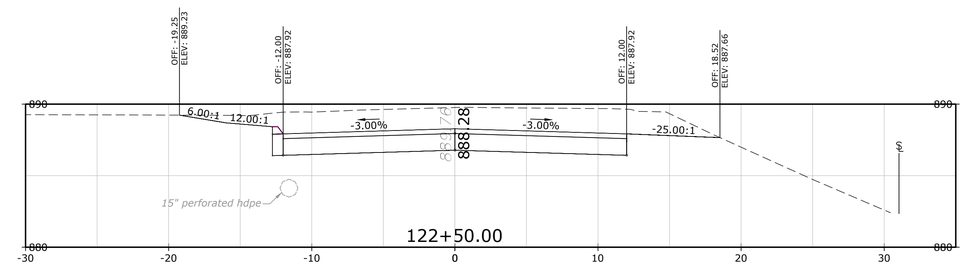
SCALE IN FEET
0 5 10
SCALE 1" = 5'

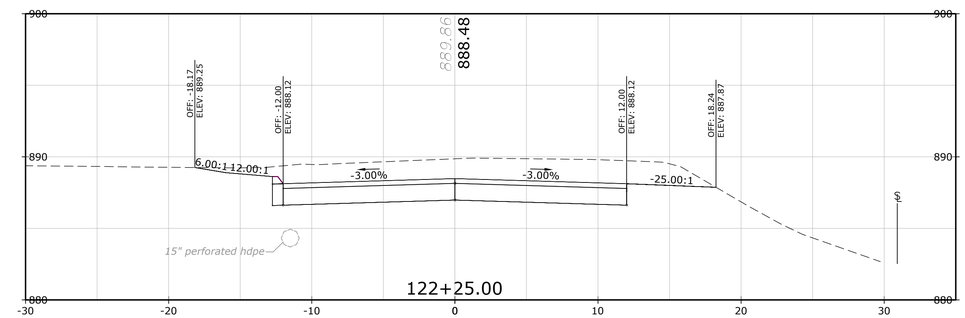


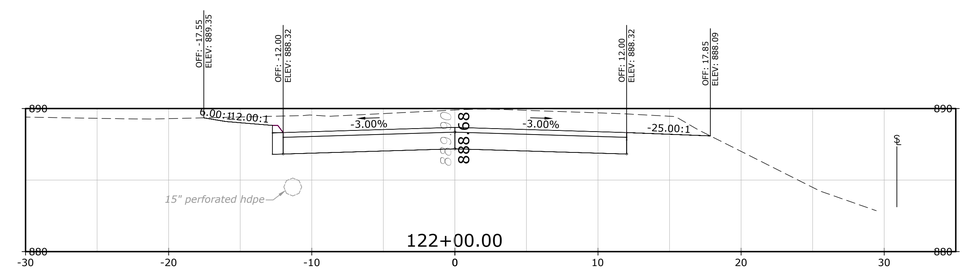


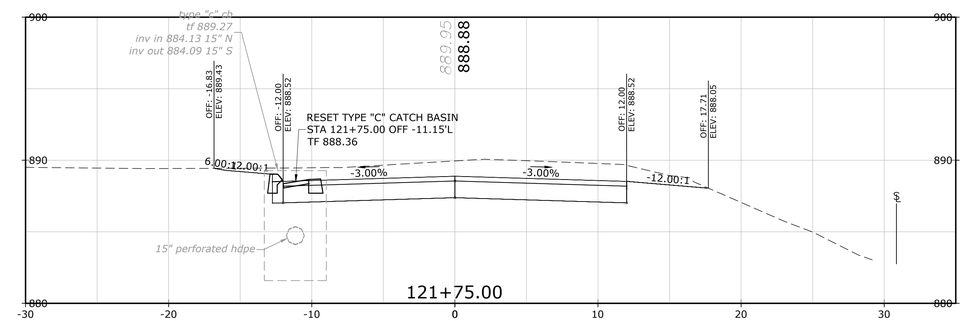












CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

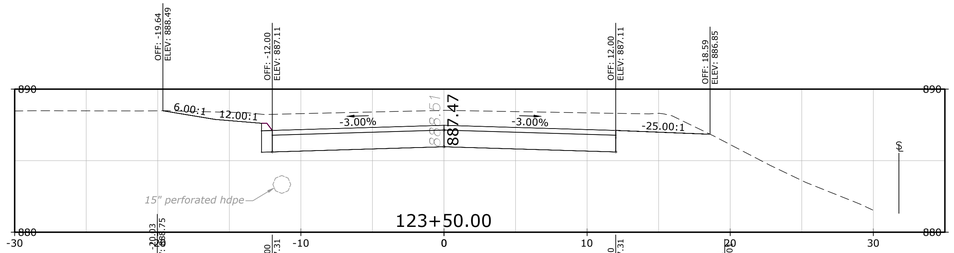
CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

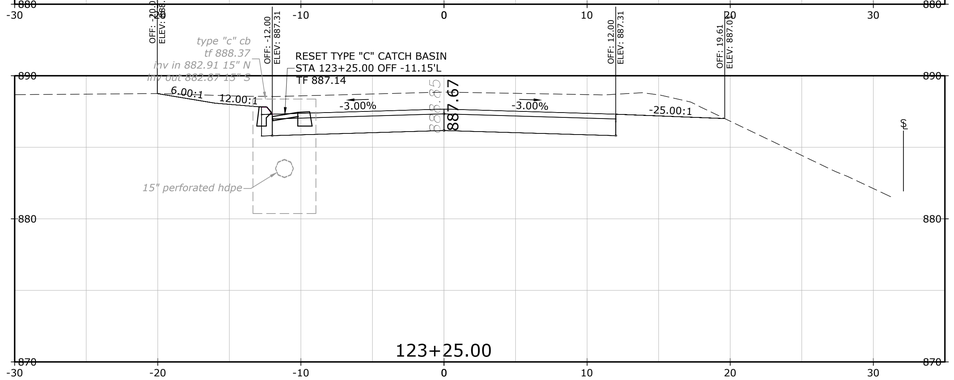
ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
CROSS SECTIONS

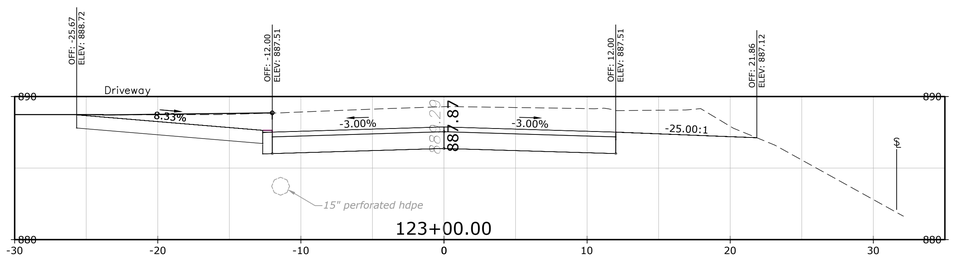
XSC-12

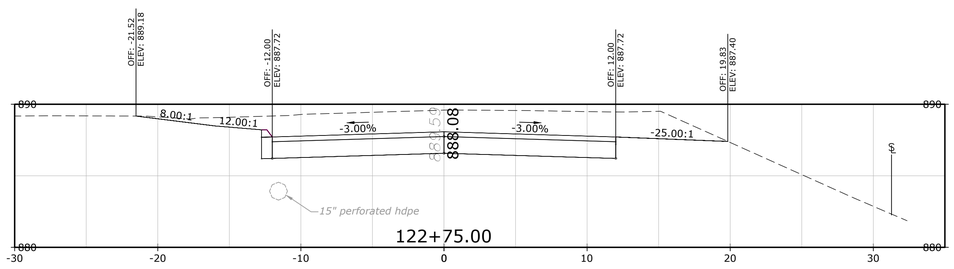
File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SPD 01-27-25 73-198 PPLAN - X-SEC.dwg Plotted: 11/17/2025 1:02 PM

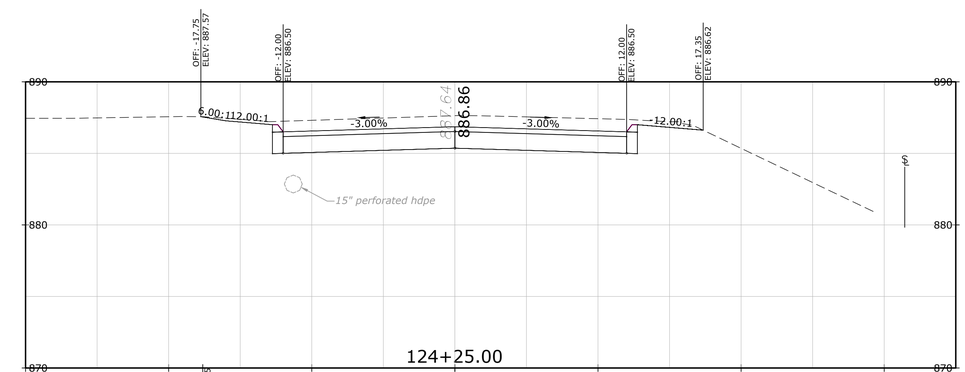
SCALE IN FEET
0 5 10
SCALE 1" = 5'

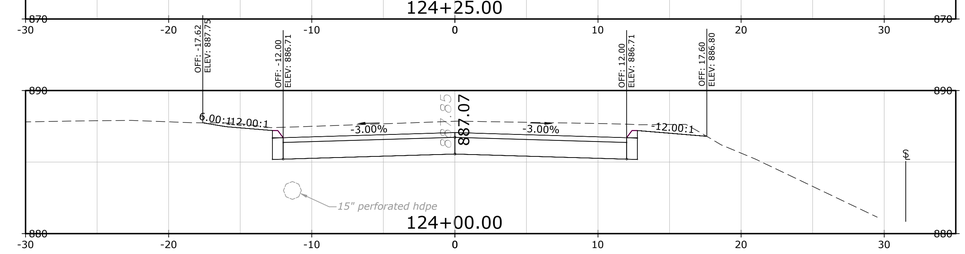


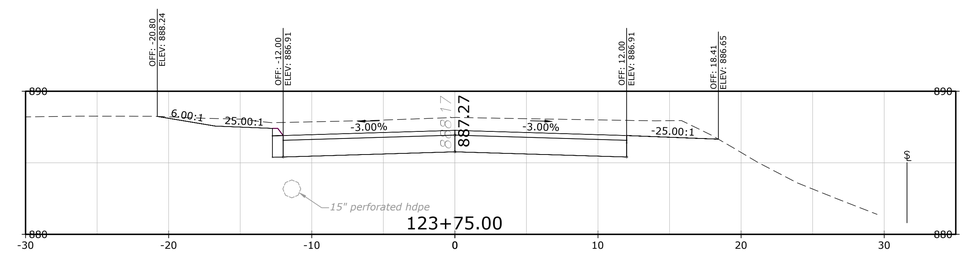












CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

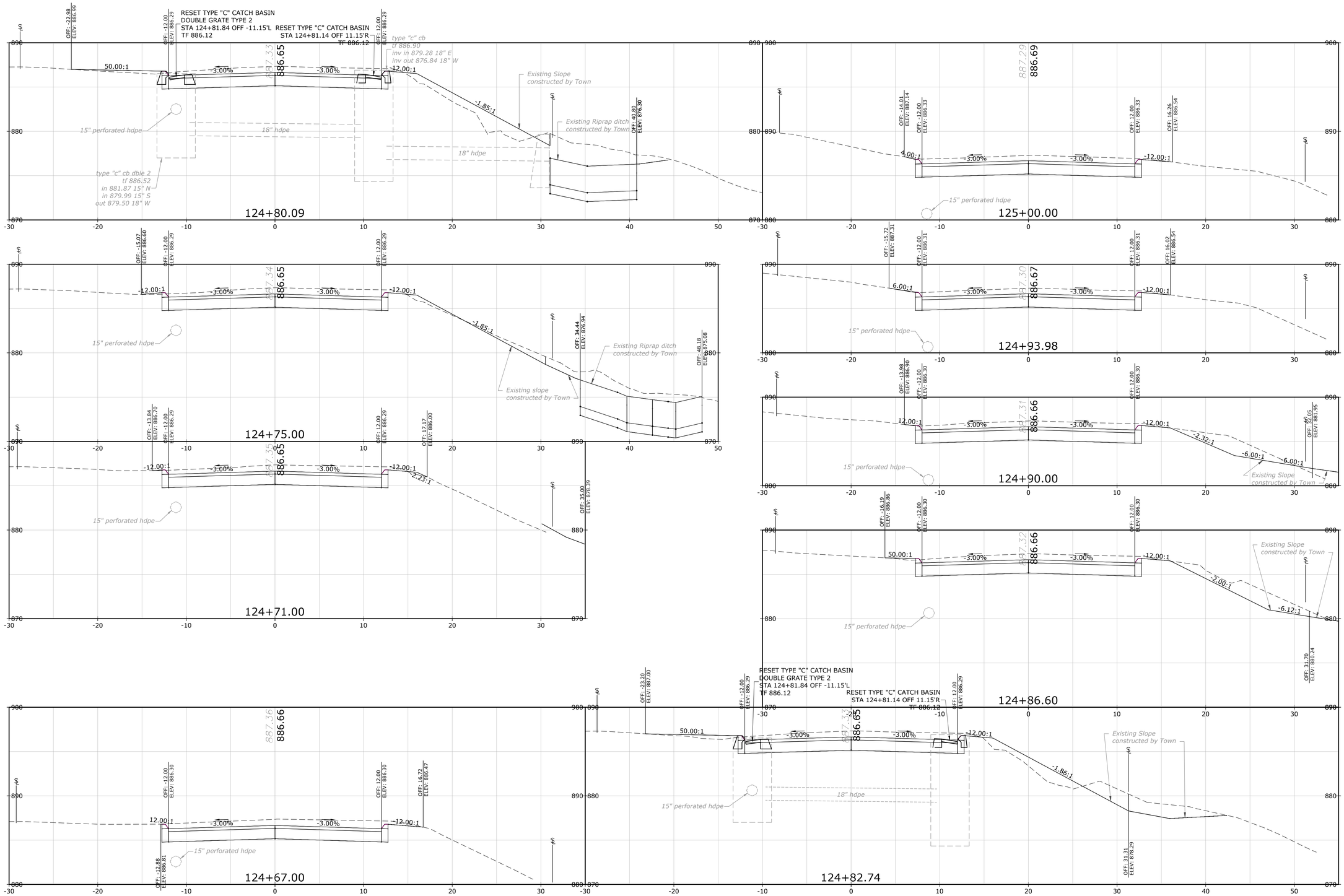
CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
CROSS SECTIONS

XSC-13

File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SPD 01-27-25 73-198 PPLAN - X-SEC.dwg Plotted: 11/17/2025 1:02 PM

SCALE IN FEET
0 5 10
SCALE 1" = 5'



CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

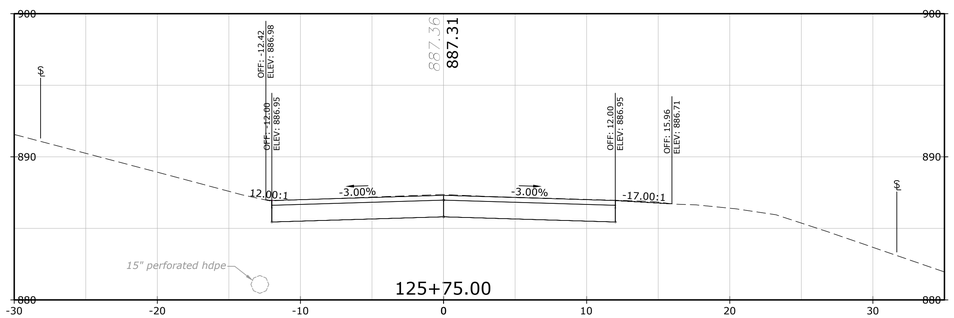
CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

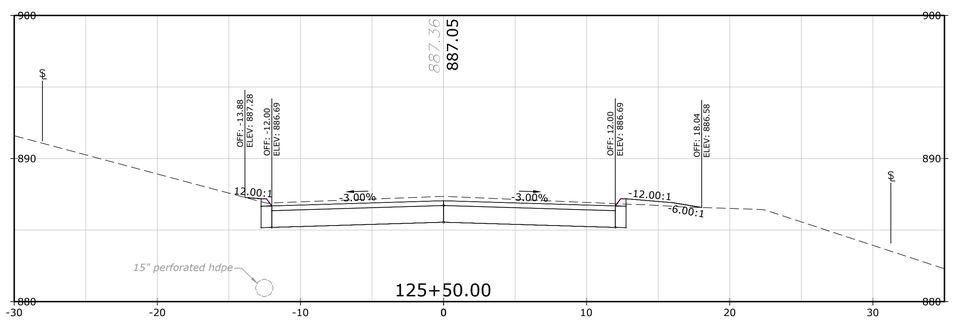
ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
CROSS SECTIONS

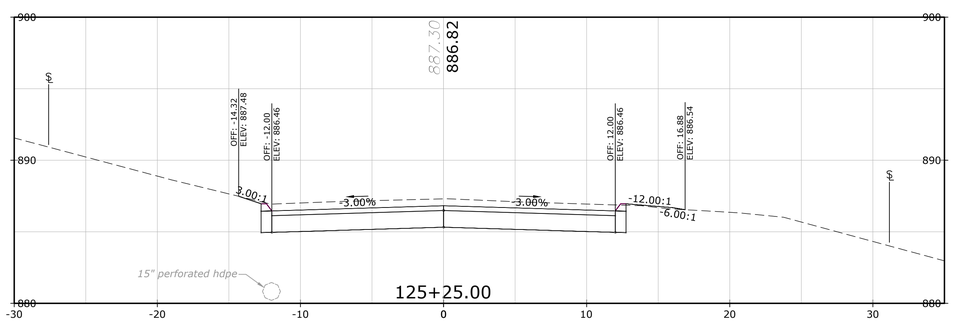
XSC-14

File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SPD 01-27-25 73-198 PPLAN - X-SEC.dwg Plotted: 11/17/2025 1:02 PM

SCALE IN FEET
0 5 10
SCALE 1" = 5'







CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE	BY

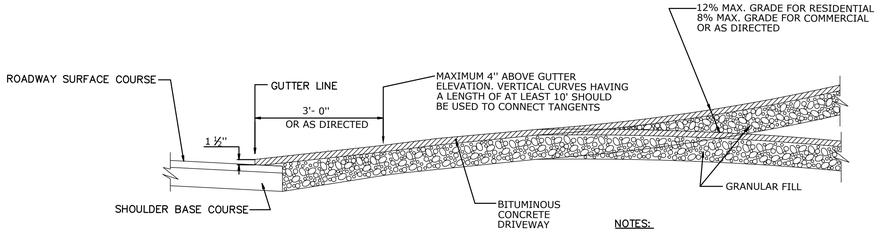
DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

CARDINAL
ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
CROSS SECTIONS

XSC-15

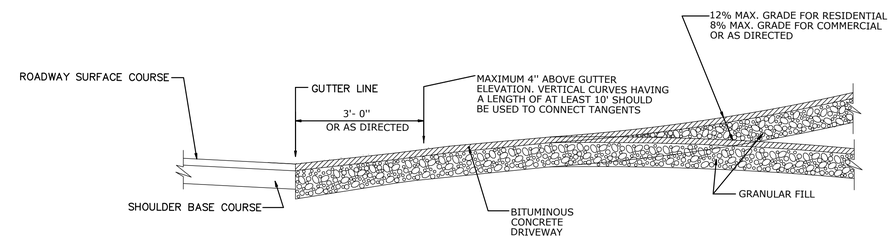
File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-PLAN-SPD 01-27-25 73-198 PP(AN) - X-SEC.dwg Plotted: 11/17/2025 1:02 PM



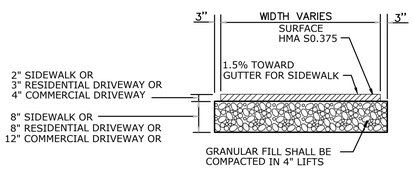
SECTION A

NOTES:

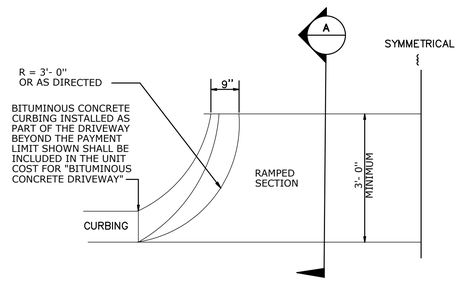
1. DRIVEWAY ENTRANCE SHALL BE A MINIMUM OF 12' WIDE EXCLUDING CURBING, WHEN PRESENT.
2. SURFACE HMA S0.375–LEVEL 1 TO BE PLACED IN TWO EQUAL LIFTS FOR BOTH RESIDENTIAL AND COMMERCIAL DRIVEWAYS.



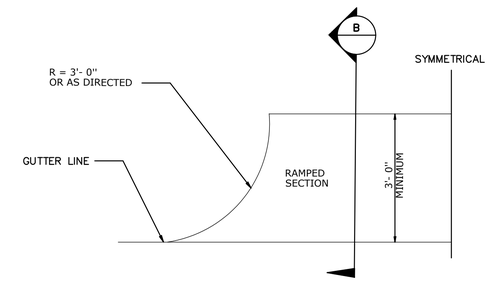
SECTION B



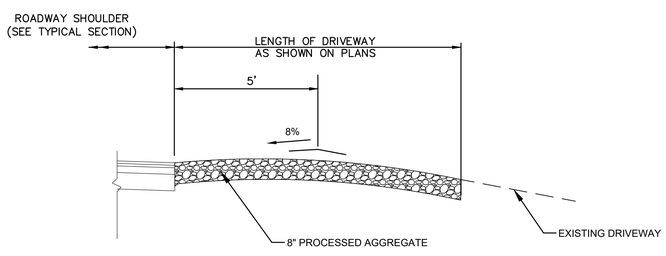
TYPICAL SECTION
BITUMINOUS CONCRETE
DRIVEWAY



HALF BITUMINOUS
CONCRETE DRIVEWAY PLAN
AND SECTION
WITH CURB

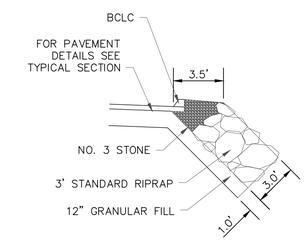


HALF BITUMINOUS
CONCRETE DRIVEWAY PLAN
AND SECTION
WITHOUT CURB



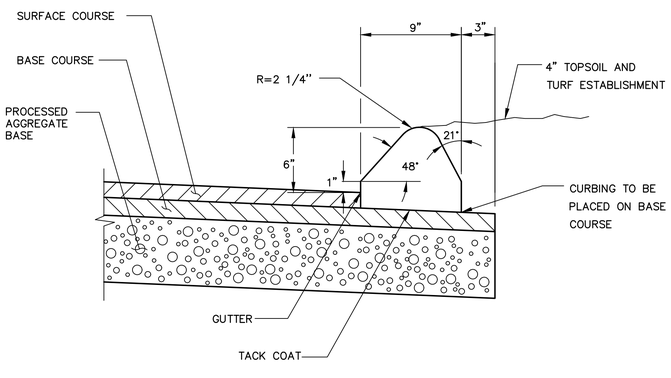
GRAVEL DRIVEWAY DETAIL

NOT TO SCALE



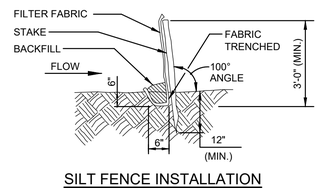
RIPRAP 1:1 SLOPE STABILIZATION

1" = 5'



6" BITUMINOUS CONCRETE LIP CURBING (BCLC)

NOT TO SCALE



SILT FENCE INSTALLATION

A) MINIMUM LENGTH OF SILT FENCE IS 15 L.F.

B) MAXIMUM POST SPACING IS 10 L.F.

C) JOINTS ONLY AT SUPPORT POST WITH MINIMUM 6" OVERLAP, SECURELY SEALED.

D) SEDIMENTATION DEPOSITS SHALL BE REMOVED WHEN THEY REACH 1/2 THE HEIGHT OF THE SILT FENCE.

E) SILT FENCE SHALL NOT BE USED IN A WATER COURSE.

F) UPON ESTABLISHMENT OF GROUND COVER ON DISTURBED AREAS, AND WHEN DIRECTED BY THE ENGINEER, FENCE WILL BE REMOVED AND ANY SEDIMENT SHALL BE REMOVED.

NO.	REVISION	DATE	BY

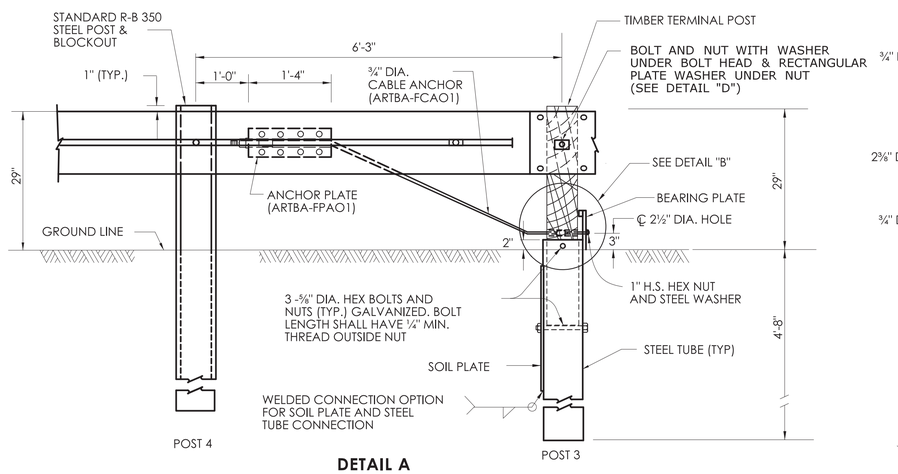
DATE: NOV 19, 2025
SCALE: AS NOTED
DESIGNED BY: AMD
DRAWN BY: MVC
CHECKED BY: RS
APPROVED BY: JAC

CARDINAL ENGINEERING ASSOCIATES
180 RESEARCH PKWY|MERIDEN, CT 06450|203-238-1969
457 BANTAM RD | LITCHFIELD, CT 06759|860-597-9106

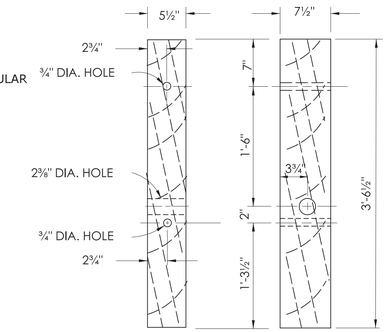
ROADWAY RECONSTRUCTION
CAMPVILLE ROAD
LITCHFIELD, CONNECTICUT
MISCELLANEOUS DETAILS

MDS-01

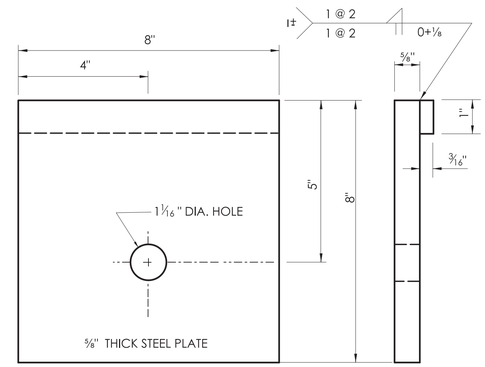
File: P:\Civil 3d Projects 2021\2351 Campville Rd Litchfield\Production Drawings\2351-MISC DETAILS.dwg Plotted: 11/17/2025 1:02 PM



DETAIL A
CABLE ANCHORAGE ASSEMBLY



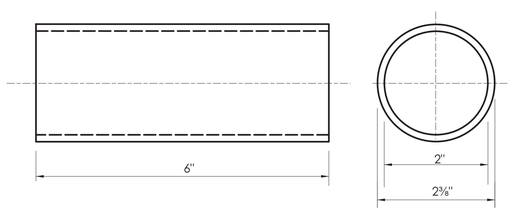
DETAIL C
TIMBER TERMINAL POST
(ARTBA-PDFO1)
(SEE NOTE 2)



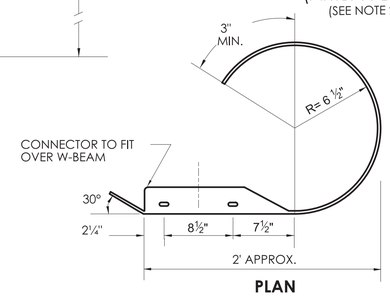
BEARING PLATE
(ARTBA-FPBO1)

GENERAL NOTES:

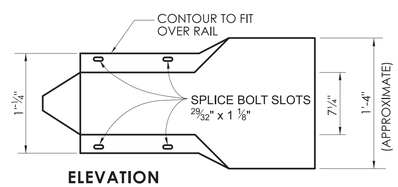
1. APPROACH END R-B TERMINAL SECTION SHALL ONLY BE USED ON LOW SPEED (<45 MPH) ROADWAYS.
2. POSTS 1, 2 AND 3 ARE TIMBER TERMINAL POSTS (DETAIL "C") WITH STEEL TUBES. POSTS 4 AND 5 ARE STANDARD R-B 350 STEEL POSTS WITH BLOCKOUTS.
3. REFER TO CTDOT STANDARD SPECIFICATIONS FOR MATERIAL AND GENERAL CONSTRUCTION METHODS.
4. MINIMUM RAIL HEIGHT FOR NEW CONSTRUCTION SHALL BE 29" +/- 1".



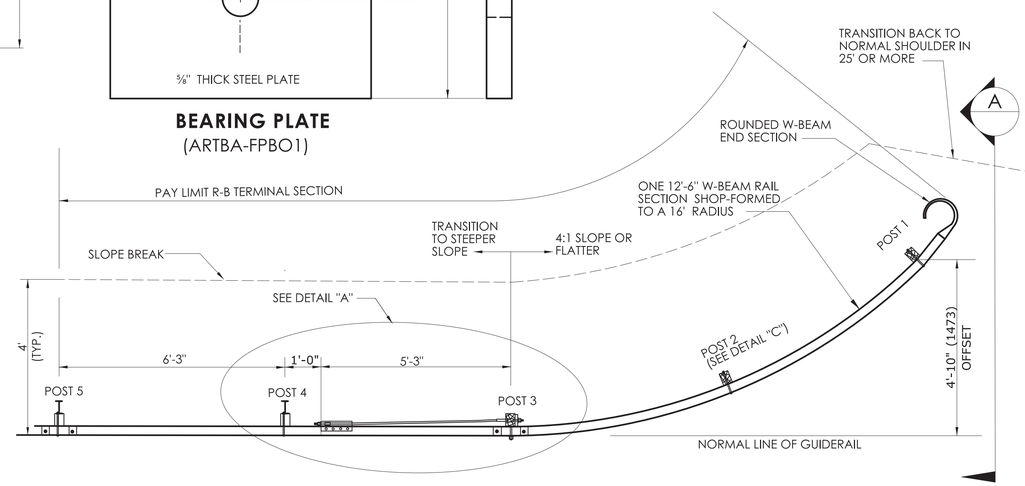
BREAKAWAY TERMINAL POST SLEEVE
(ARTBA-FMMO2)



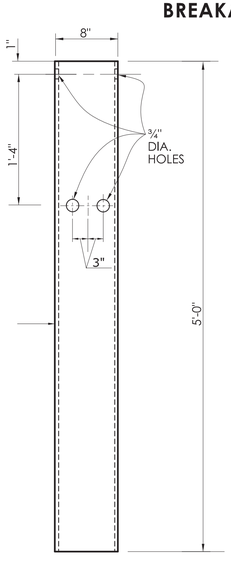
PLAN



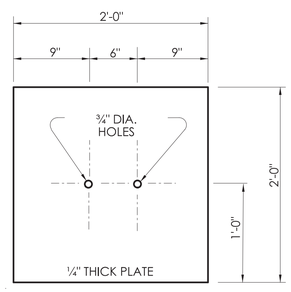
ELEVATION
ROUNDED W-BEAM END SECTION



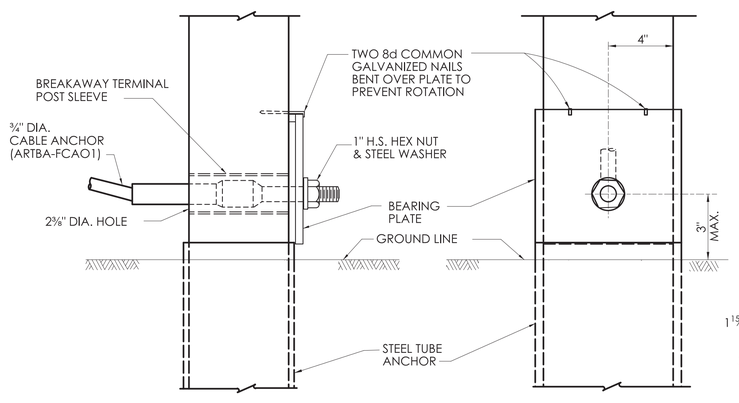
APPROACH END
(TRAILING END NOT SHOWN)



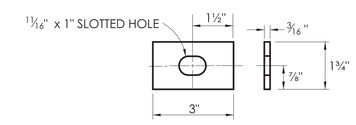
STEEL TUBE



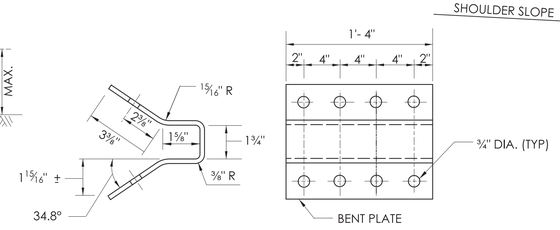
SOIL PLATE



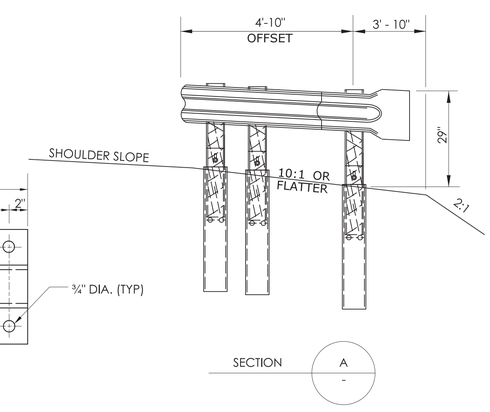
DETAIL B



DETAIL D
RECTANGULAR PLATE WASHER

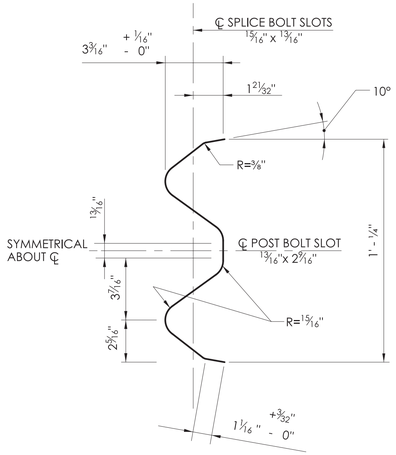


ANCHOR PLATE
(ARTBA-FPAO1)

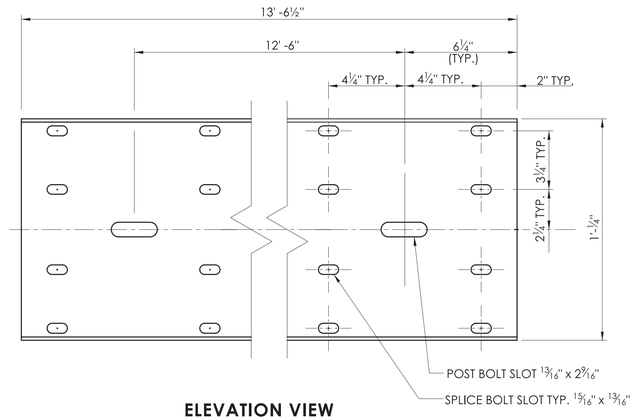


	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 15:05:19-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.08 09:58:12-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: R-B TERMINAL SECTION	STANDARD SHEET NO.: HW-910_17

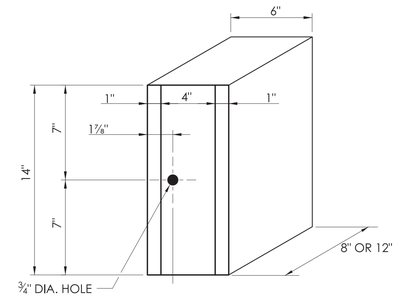
PLOTTED DATE: 9/21/2022



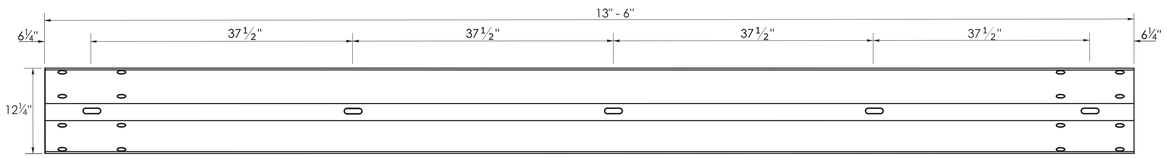
SECTION VIEW



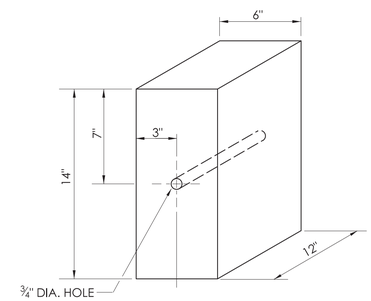
ELEVATION VIEW



8" or 12" PLASTIC BLOCKOUT
NOMINAL DIMENSIONS



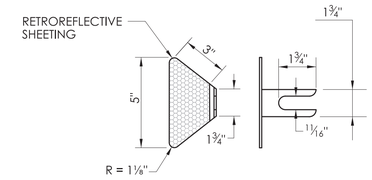
TYPICAL W-BEAM RAIL ELEMENT



12" WOOD BLOCKOUT

GENERAL NOTES:

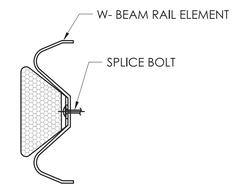
1. W6 x 9 POSTS MAY BE USED IN PLACE OF W6 x 8.5 POSTS.
2. W-BEAM GUIDERAIL SHALL USE CLASS A (12 GAUGE), TYPE II W-BEAM RAIL ELEMENTS.
3. SEVEN FOOT LONG STEEL POSTS (W6 X 8.5) ARE TO BE INSTALLED WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
4. ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES



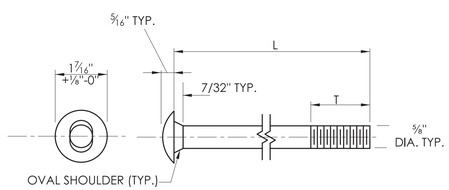
W-BEAM DELINEATOR

INSTALLATION NOTES:

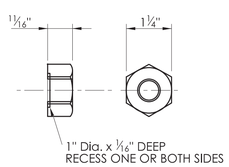
1. INSTALL W-BEAM DELINEATORS ON RAIL THAT IS PARALLEL TO AND NOT GREATER THAN 8' FROM THE EDGE OF THE ROADWAY. A MINIMUM OF THREE W-BEAM DELINEATORS SHALL BE INSTALLED ON ANY LENGTH OF GUIDERAIL.
2. THE SPACING OF W-BEAM DELINEATORS IS 50 FEET, INSTALLED AT RAIL SPLICE LOCATIONS. SPACING IS 25 FEET ON RADII LESS THAN 300 FEET.
3. NO W-BEAM DELINEATORS ARE PERMITTED WITHIN 75 FEET OF THE IMPACT HEAD OF ANY TANGENTIAL OR FLARED IMPACT ATTENUATION SYSTEM.
4. RETROREFLECTIVE SHEETING SHALL BE WHITE EXCEPT ON THE LEFT SIDE OF DIVIDED STREETS, HIGHWAYS, RAMPS, AND ONE WAY ROADS IN THE DIRECTION OF TRAVEL WHERE IT SHALL BE YELLOW.
5. FOR HIGHWAY OFF RAMP, INSTALL W-BEAM DOUBLE SIDED DELINEATORS ACCORDING TO INSTALLATION REQUIREMENTS STATED BELOW FOR W-BEAM DOUBLE SIDED DELINEATORS.



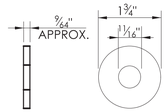
W-BEAM DELINEATOR INSTALLATION



BUTTONHEAD BOLT



HEX NUT

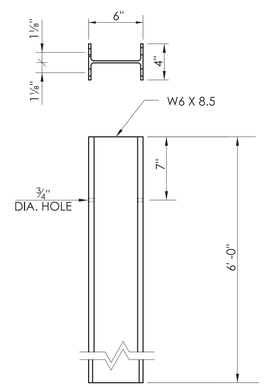


WASHER
[FWC16a]

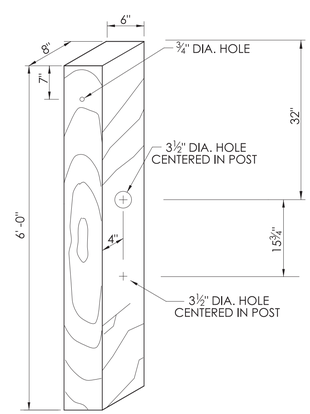
DESIGNATOR	L	T	INTENDED USE
FBB01	1 1/4"	1 1/8"	RAIL SPLICE BOLTS
FBB02	2"	1 3/4"	RUB RAIL BOLTS
FBB03	10"	4"	POST BOLTS (8" BLOCK OUTS)
	14"	4"	POST BOLTS (12" BLOCK OUTS)
FBB04	18"	4"	POST BOLTS (2-8" BLOCK OUTS)
	22"	4"	POST BOLTS (CRT WOOD POST SYSTEM)

5/8" BUTTON HEAD BOLT(S) AND RECESSED NUT(S)

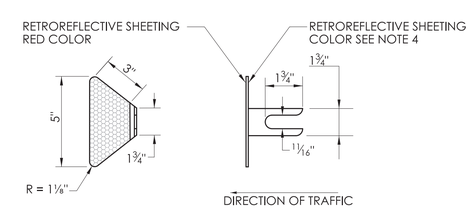
NOTE: AFTER GALVANIZING, THE NUT SHALL BE FREE RUNNING ON THE BOLT. DIAMETER SHOWN IS TYPICAL FOR ALL GUIDERAIL BOLTS. SEE DETAILS ABOVE FOR SPECIFIC LENGTHS.



STEEL POST
6' - 0" LONG



CONTROL RELEASE TIMBER (CRT) POST
6' - 0" LONG



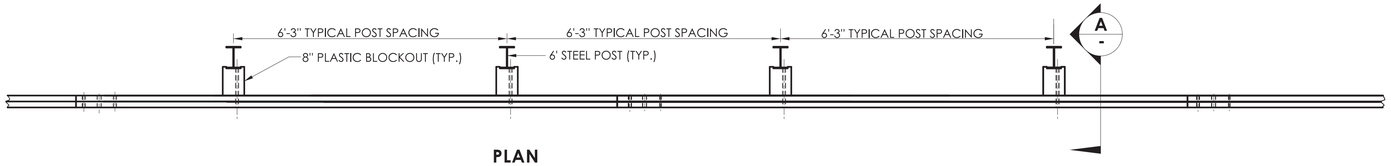
W-BEAM DOUBLE SIDED DELINEATOR FOR HIGHWAY OFF RAMPS

INSTALLATION NOTES:

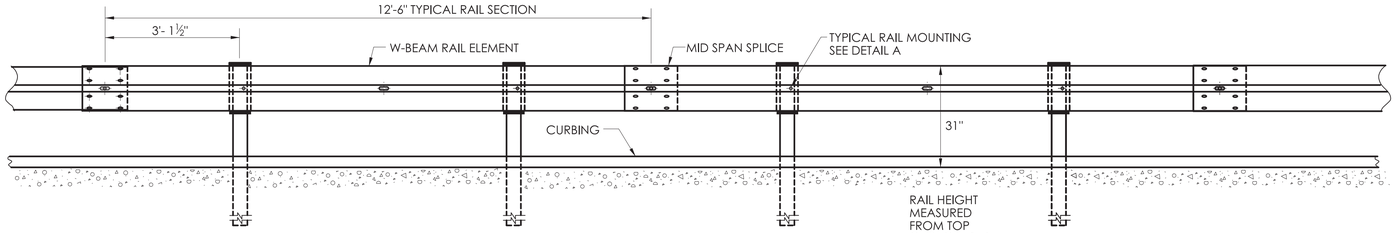
1. INSTALL W-BEAM DOUBLE SIDED DELINEATORS ON HIGHWAY OFF RAMP'S W-BEAM GUIDERAIL BETWEEN THE PAINTED TRAFFIC STOP LINE TO THE FARTHEST "WRONG WAY" SIGNS FROM THE INTERSECTION.
2. INSTALL THE W-BEAM DOUBLE SIDED DELINEATORS AT 6'-3" SPACING.
3. NO W-BEAM DOUBLE SIDED DELINEATORS ARE PERMITTED WITHIN 75 FEET OF THE IMPACT HEAD OF ANY TANGENTIAL OR FLARED IMPACT ATTENUATION SYSTEM.
4. RETROREFLECTIVE SHEETING COLOR SHALL BE RED ON BACKSIDE (NOT FACING NORMAL DIRECTION OF TRAFFIC) WITH FRONT SIDE HAVING WHITE EXCEPT ON THE LEFT SIDE OF RAMPS,WHERE IT SHALL BE YELLOW.

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2024.08.16 11:14:49-04'00'	APPROVED BY: Digitally signed by Michael N. Calabrese, P.E. Date: 2024.10.18 11:51:57-04'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: MASH W-BEAM HARDWARE	STANDARD SHEET NO.: HW- 910_20

PLOTTED DATE: 8/13/2024



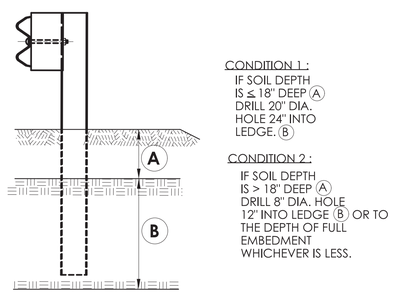
PLAN



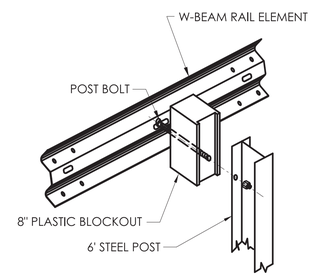
ELEVATION
METAL BEAM RAIL (R-B MASH) GUIDERAIL

GENERAL NOTES:

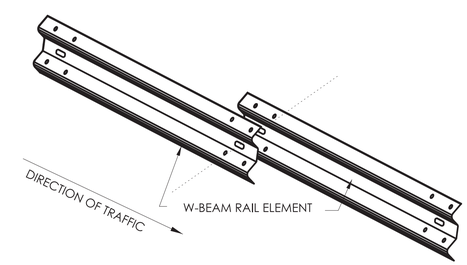
1. SEE SHEET HW-910_20 FOR MASH W-BEAM HARDWARE AND W-BEAM DELINEATOR DETAILS.
2. THREE BLOCKOUTS MAY BE USED FOR ONE POST ONLY. TWO BLOCKOUTS MAY BE USED FOR A SERIES OF POSTS. THE COST OF ADDITIONAL BLOCKOUTS AND LONGER BOLTS SHALL BE INCLUDED IN THE PRICE PER FOOT OF GUIDERAIL. EXTRA BLOCKOUTS AT TRANSITIONS TO BRIDGE PARAPETS SHOULD BE AVOIDED. DO NOT USE ADDITIONAL BLOCKS IF IT CAUSES THE POST TO BE DRIVIEN BEYOND AN EMBANKMENT HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.
3. IF BLOCKOUTS DO NOT AVOID POST FROM OBSTRUCTION, ONE POST MAY BE OMITTED IF 50 FEET OF GUIDERAIL EXISTS ON BOTH SIDES OF LOCATION. USE METAL BEAM RAIL SPAN SECTION TYPE II OR III FOR MORE THAN ONE CONSECUTIVE OMITTED POST, SEE SHEET HW-910_24.
4. W-BEAM GUIDERAIL MAY BE PLACED 1' OR MORE FROM THE EDGE OF PAVEMENT ONLY ON SLOPES 10:1 OR FLATTER AND WITHOUT CURBING.
5. IF THE RAIL IS INSTALLED WITHIN 2' OF THE EDGE OF PAVEMENT, THE RAIL HEIGHT IS MEASURED FROM THE SHOULDER SLOPE EXTENDED TO THE RAIL. IF THE RAIL IS INSTALLED BEYOND 2' FROM THE EDGE OF PAVEMENT, THE RAIL HEIGHT IS MEASURED FROM THE GROUND DIRECTLY BELOW THE RAIL.
6. RAIL HEIGHT CONSTRUCTION TOLERANCE IS +/- 1 INCH.
7. FOR NEW CONSTRUCTION, PLACE 6 INCH LAYER OF PROCESSED AGGREGATE. FOR CONSTRUCTION PROJECTS WITH GUIDERAIL UPGRADE, THE CONTRACT PLANS MAY CALL OUT PROCESSED AGGREGATE ONLY TO BE PLACE IN LOCATION(S) OF EXISTING VERTICAL PAVEMENT EDGE DROP OFF AS A LEVELING MATERIAL, FILLING IN DEPRESSED AREAS.



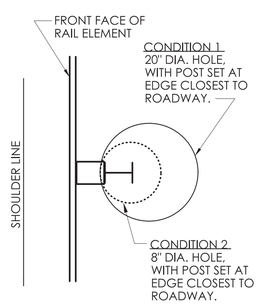
ELEVATION



DETAIL A
RAIL MOUNTING

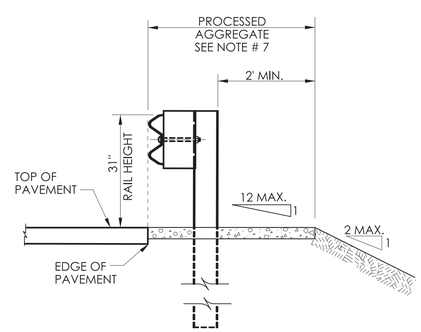


LAP W-BEAM RAIL SECTIONS
NOTE: EIGHT (8) SPLICE BOLTS PER JOINT



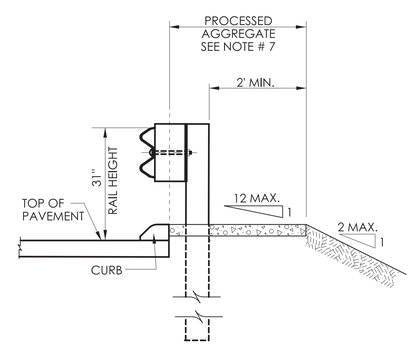
PLAN

GUIDERAIL POSTS IN ROCK



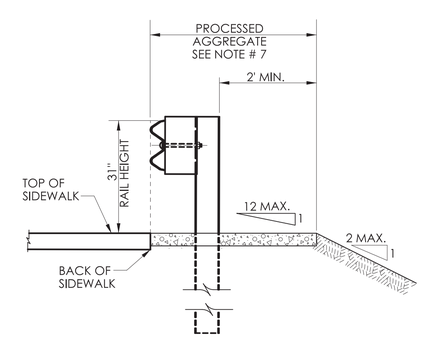
SECTION A -

NO CURB APPLICATION



SECTION A -

CURB APPLICATION



SECTION A -

SIDEWALK APPLICATION

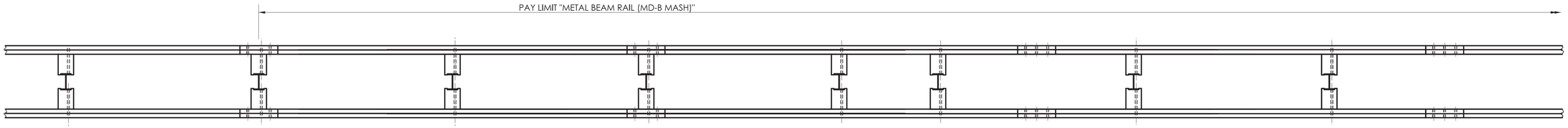
	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2023.12.28 14:10:56-05'00'	APPROVED BY: Michael N. Calabrese, P.E. 2024.01.04 22:04:27-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: METAL BEAM RAIL (R-B MASH) GUIDERAIL	STANDARD SHEET NO.: HW- 910_21

PLOTTED DATE: 12/28/2023

GENERAL NOTES:

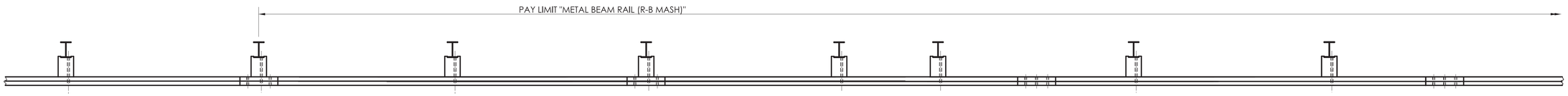
GENERAL NOTES:

1. SEE SHEET HW-910_20 FOR HARDWARE AND W-BEAM DELINEATOR DETAILS.
2. NO POST(S) SHALL BE OMITTED WITHIN THE LENGTH OF GUIDERAIL TRANSITION.



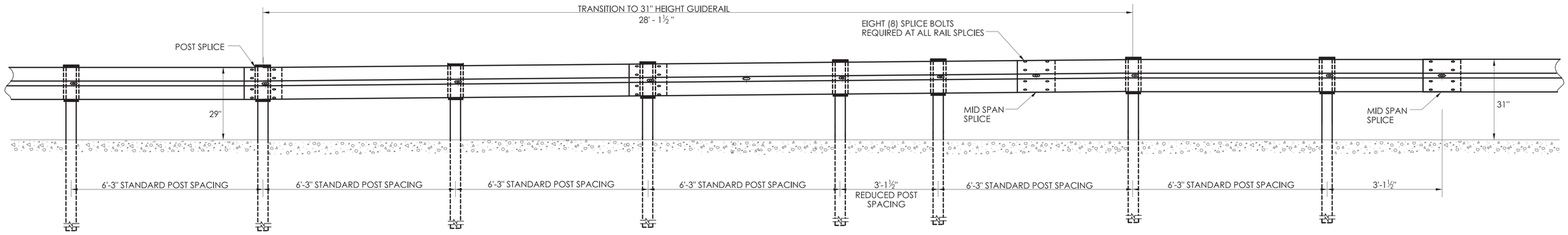
PLAN

METAL BEAM RAIL MD-B 350 TRANSITION TO METAL BEAM RAIL MD-B MASH



PLAN

METAL BEAM RAIL R-B 350 TRANSITION TO METAL BEAM RAIL R-B MASH

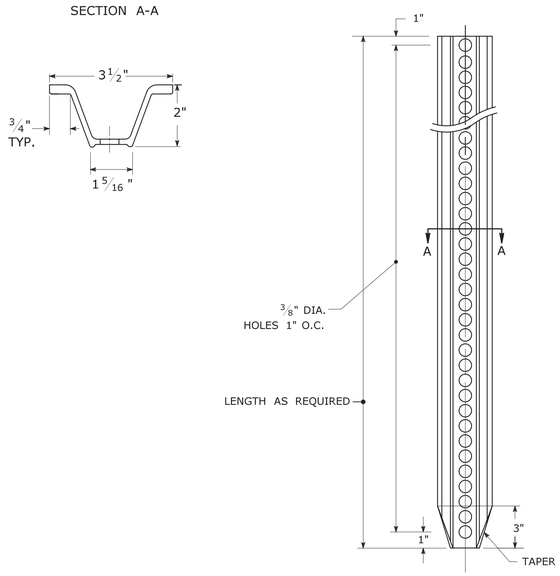


ELEVATION

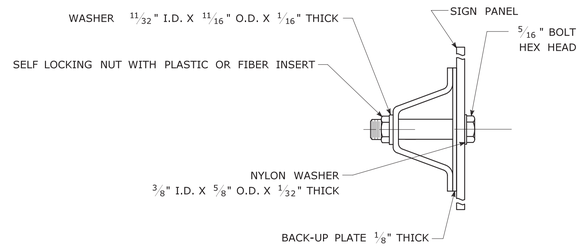
	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2024.08.16 11:06:19-04'00'	APPROVED BY: Digitally signed by Michael N. Calabrese, P.E. Date: 2024.10.17 22:59:42-04'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: METAL BEAM RAIL TRANSITION 350 TO MASH GUIDERAIL	STANDARD SHEET NO.: HW- 910_25a

PLOTTED DATE: 8/13/2024

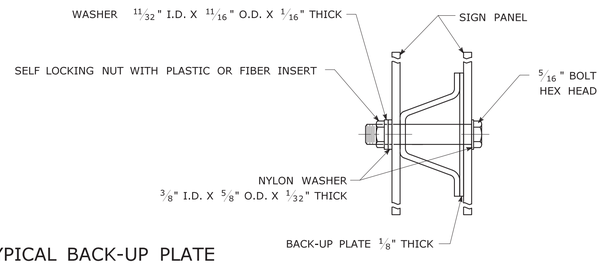
TYPICAL METAL SIGN POSTS



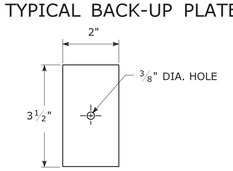
TYPICAL SIGN PANEL ATTACHMENT



TYPICAL BACK TO BACK SIGN PANEL ATTACHMENT



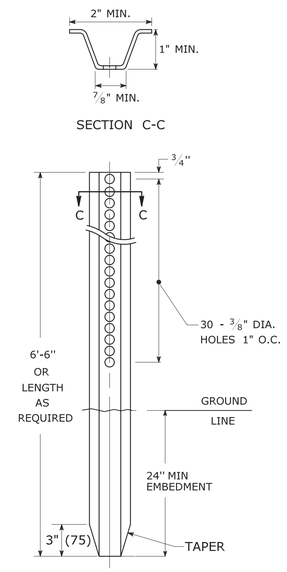
TYPICAL BACK-UP PLATE



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

METAL DELINEATOR POST

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

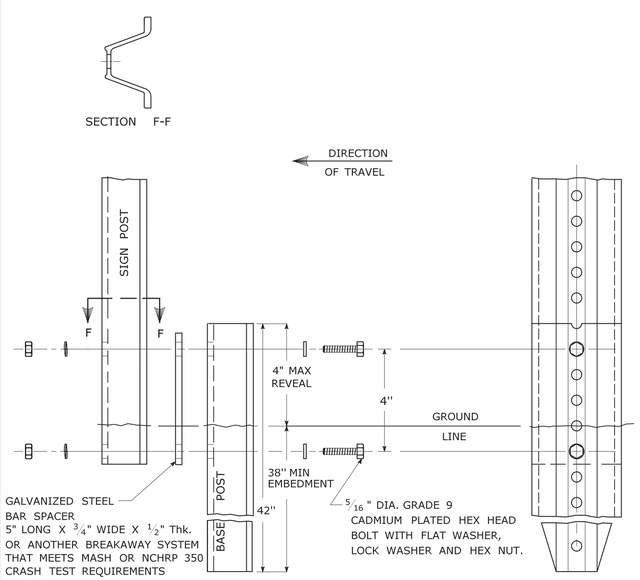


GENERAL NOTES:

1. STEEL FOR DELINEATOR POSTS SHALL BE ASTM A36 STEEL. STEEL FOR ALL OTHER POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499 GRADE 80 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT (MASS) OF 91 LBS. OR GREATER PER LINEAR YARD.
2. AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123.
3. WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
4. SPACER BAR FOR BREAKAWAY INSTALLATION SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A36.
5. ALL BOLTS, NUTS, AND WASHERS FOR BREAKAWAY INSTALLATIONS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153.
6. ALL SIGN POSTS SHALL HAVE BREAKAWAY FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS." THE BREAKAWAY FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGNS SHOWN IN THE PLANS AT 60 mph WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
7. SIGN POSTS SHALL BE 4 LBS./FT.

BREAKAWAY INSTALLATION

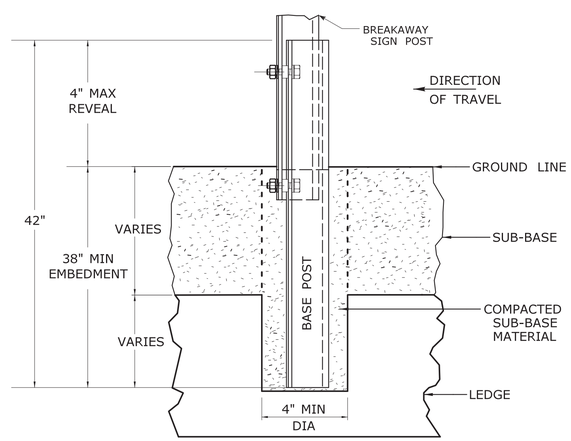
FOR 4 LBS./FT. POSTS



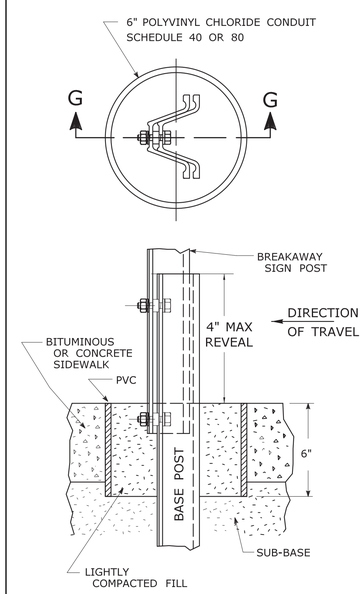
TYPICAL SIGN POST INSTALLATION IN LEDGE

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

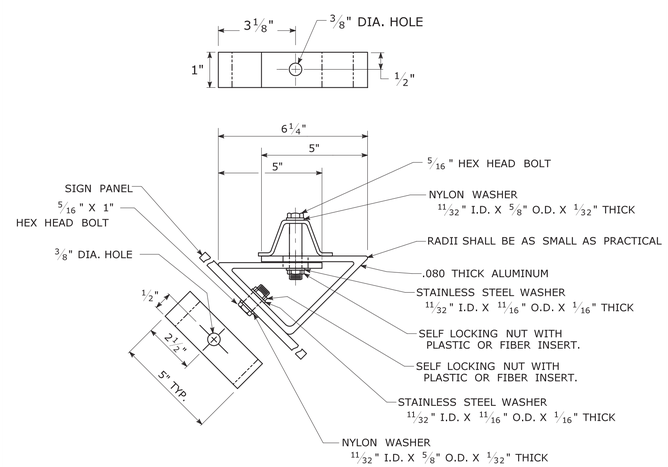
HOLE SHALL BE FILLED WITH SUB-BASE MATERIAL AND COMPACTED WITH A TAMPING BAR, OR TECHNIQUE APPROVED BY THE ENGINEER, PRIOR TO BASE POST INSTALLATION.



TYPICAL SLEEVE FOR PAVED AREAS



45° MOUNTING BRACKET FOR INSTALLATION OF PARKING SIGNS



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

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

Plotted Date: 6/6/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1208_02_May_2017_Revision.dgn Model: TR-1208_02

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E. 2017.06.07 07:30:30-04'00'
Mary E. Baker, P.E. 2017.06.13 15:28:14-04'00'
APPROVED BY: NAME/DATE/TIME:
Gregory M. Dorosh, P.E. 2017.06.15 09:27:29-04'00'

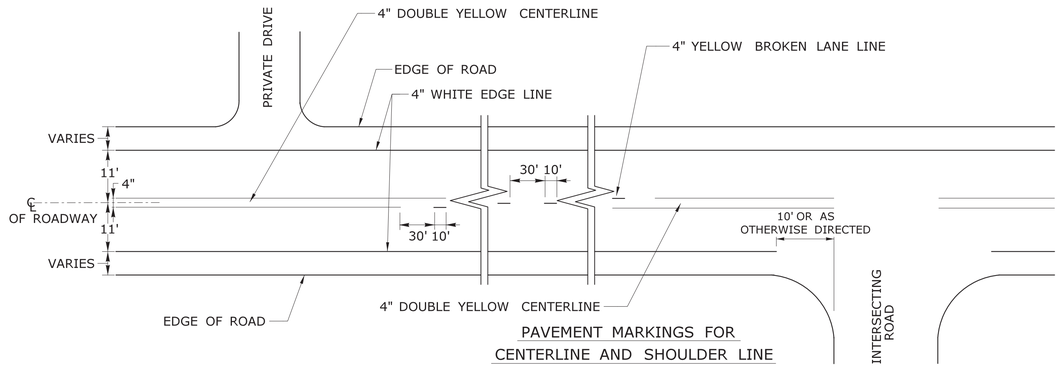
CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

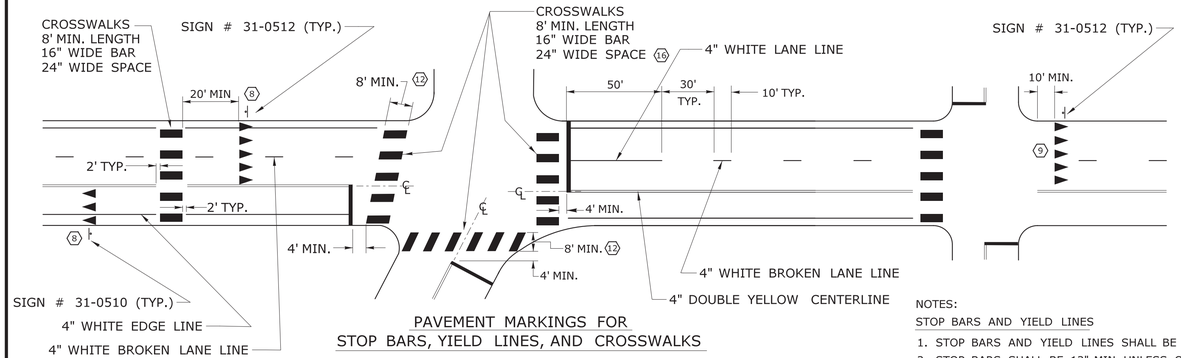
STANDARD SHEET TITLE:

METAL SIGN POSTS AND SIGN MOUNTING DETAILS

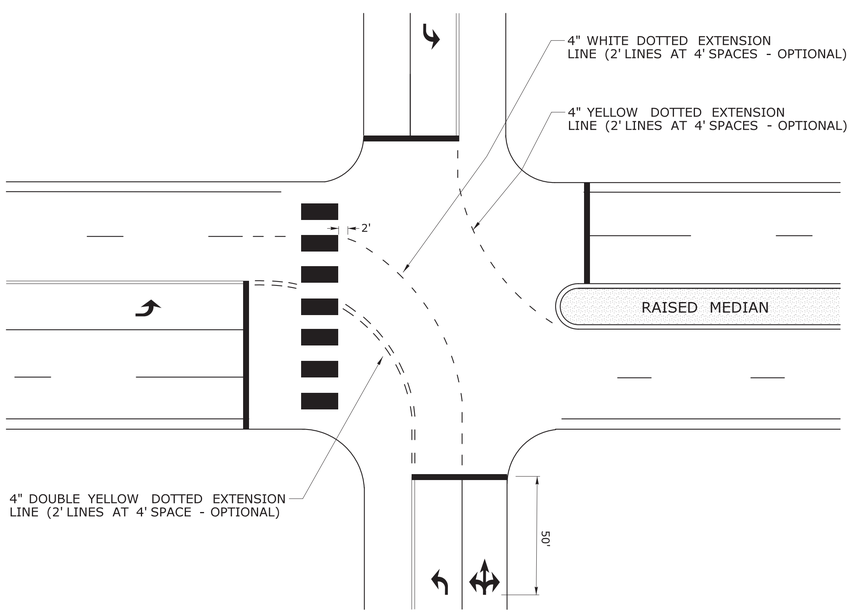
GUIDE SHEET NO.: TR-1208_02



PAVEMENT MARKINGS FOR CENTERLINE AND SHOULDER LINE



PAVEMENT MARKINGS FOR STOP BARS, YIELD LINES, AND CROSSWALKS



TURNING EXTENSIONS

NOTES:

STOP BARS AND YIELD LINES

1. STOP BARS AND YIELD LINES SHALL BE WHITE.
2. STOP BARS SHALL BE 12" MIN. UNLESS OTHERWISE NOTED ON PLANS.
3. STOP BARS TO BE PLACED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST EDGE OF CROSSWALK AND SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY.
4. IN THE ABSENCE OF A MARKED CROSSWALK THE STOP BAR SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY, AT THE DESIRED STOPPING POINT AT LEAST 5' AND NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
5. THE STOP SIGN SHOULD BE PLACED IN LINE WITH THE STOP BAR. HOWEVER, IF THE STOP SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO STOP, THE STOP BAR SHOULD BE PLACED AT THE STOPPING POINT.
6. FOR STOP BARS AT RAMPS SEE DETAILS "R", "S", "T", & "U" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210 07 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS EXIT RAMPS".
7. FOR YIELD LINE INSTALLATIONS, ONLY FULL TRIANGLES ARE TO BE INSTALLED.

(8) MID-BLOCK CROSSWALKS ARE CROSSWALKS LOCATED MORE THAN 50 FEET FROM A SIGNALIZED OR UNSIGNALIZED INTERSECTION. YIELD LINES ASSOCIATED WITH MIDBLOCK CROSSWALKS SHALL BE INSTALLED AND SHOULD BE LOCATED 20 TO 50 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE OR AS DIRECTED BY THE ENGINEER.
WHERE A YIELD LINE EXISTS ON AN APPROACH TO A CROSSWALK, THE APPROAPRIATE "YIELD TO PEDESTRIANS" SIGN IS REQUIRED.

(9) FOR CROSSWALKS AT UNSIGNALIZED INTERSECTIONS WITH MINOR STREET STOP CONTROL, YIELD LINES SHALL BE INSTALLED ON MULTI-LANE APPROACHES, BUT NOT SINGLE LANE APPROACHES.

10. THE YIELD SIGN SHOULD BE PLACED IN LINE WITH A YIELD LINE. HOWEVER, IF THE YIELD SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO YIELD, THE YIELD LINE SHOULD BE PLACED AT THE YIELDING POINT.

CROSSWALKS

11. CROSSWALK MARKINGS SHALL BE WHITE.

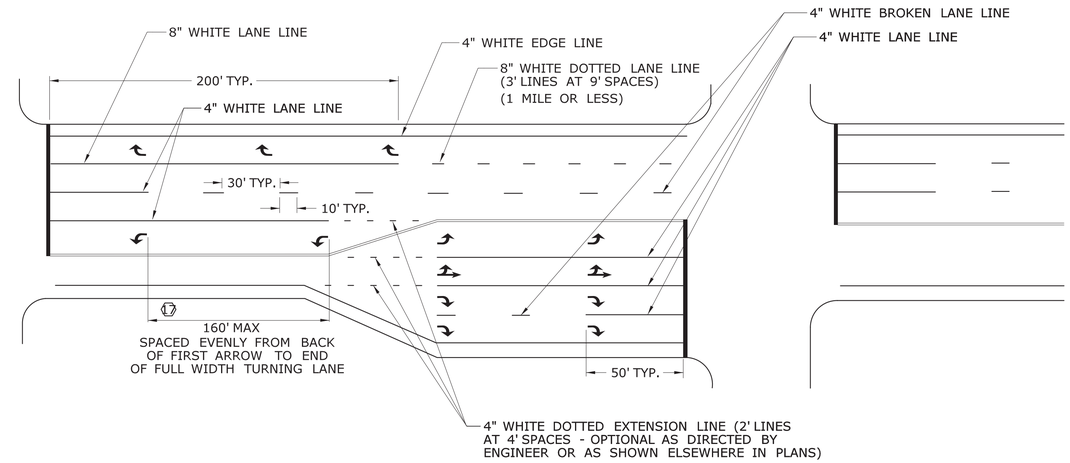
(12) AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO ℄ AND ENDS OF BARS TO BE PARALLEL. THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW.

13. BARS SHOULD BE NO CLOSER THAN 1' FROM EDGE OF ROAD.
14. ONLY FULL LENGTH BARS ARE TO BE INSTALLED.
15. DECORATIVE CROSSWALKS SHALL BE BANDED FROM CURB TO CURB WITH A MINIMUM 12" WIDE WHITE TRANSVERSE LINE ALONG EACH EDGE.

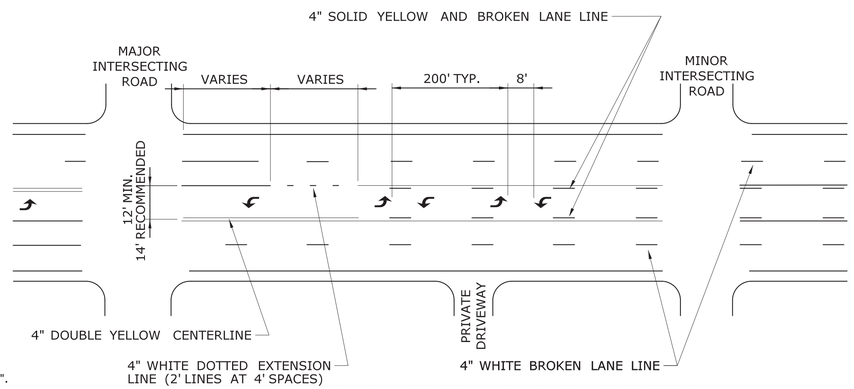
(16) 24" WIDE SPACE TO BE CENTERED ON YELLOW CENTERLINE.

PAVEMENT MARKINGS FOR TURNING LANES

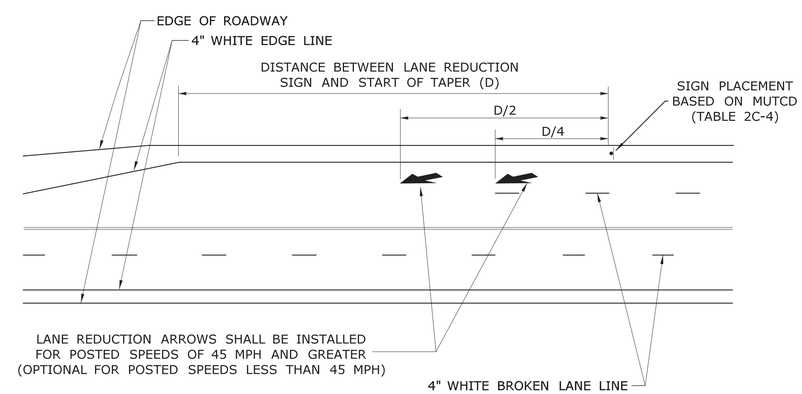
(17) INSTALL AT LEAST TWO ARROWS PER LANE WHERE STORAGE LENGTH IS GREATER THAN 150 FEET.



PAVEMENT MARKINGS FOR TURNING LANES AND ROAD LANE-DROP



TWO-WAY LEFT-TURN MARKINGS APPLICATIONS



LANE REDUCTION TRANSITIONS

REV.	DATE	REVISION DESCRIPTION
1	8-2018	REVISED YIELD LINE SIGNAGE AND NOTES.

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

Plotted Date: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

SUBMITTED BY: NAME/DATE/TIME: Mark F. Makuch, P.E. 2018.08.17 09:10:18-04'00'

APPROVED BY: NAME/DATE/TIME: Mark F. Carlino, P.E. 2018.08.21 07:49:18-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

PAVEMENT MARKINGS FOR NON FREEWAYS

STANDARD SHEET NO.: TR-1210_08