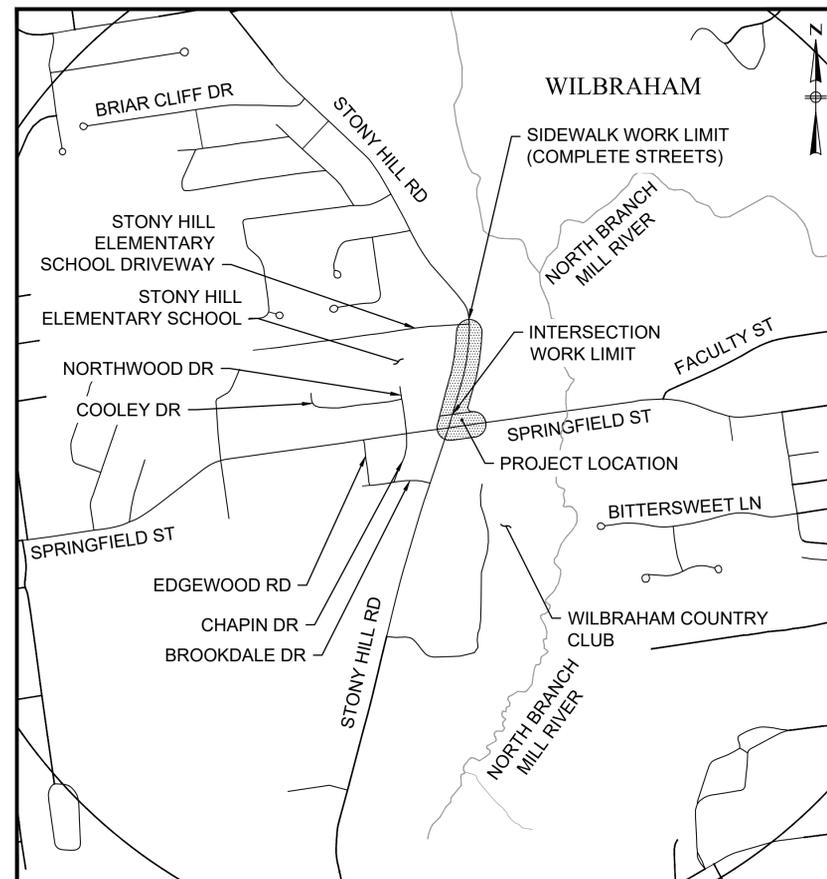


# TOWN OF WILBRAHAM, MA DEPARTMENT OF PUBLIC WORKS

## SPRINGFIELD STREET AT STONY HILL ROAD INTERSECTION & SIDEWALK IMPROVEMENTS

CONTRACT NO. #####  
FEBRUARY 2026



PROJECT LOCATION

LOCUS MAP  
NOT TO SCALE

### PLAN INDEX

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100% SUBMISSION  
FOR REVIEW

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FOR REVIEW ONLY  
02/11/2026

PREPARED BY:



ISSUE DATE: 01/26/2025

REGISTERED PROFESSIONAL \_\_\_\_\_  
DATE \_\_\_\_\_

# LEGEND

## GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		CURB OR BERM (TYPE AS NOTED)
		EDGE OF PAVEMENT
		CATCH BASIN (OR GUTTER INLET, LEACHING BASIN, DROP INLET, CATCH BASIN CURB INLET)
		ELECTRIC HANDHOLE (NUMBER AS NOTED)
		ELECTRIC MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		SEWER MANHOLE
		DRAINAGE MANHOLE
		GAS GATE
		WATER GATE
		CURB STOP
		HYDRANT
		FIRE ALARM BOX
		PARKING METER
		STREET LIGHT POLE
		UTILITY POLE
		UTILITY POLE w/ LIGHT
		SIGN
		GUY POLE
		DRAIN PIPE (SIZE AS NOTED)
		SEWER MAIN (SIZE AS NOTED)
		ELECTRIC DUCT
		GAS MAIN (SIZE AS NOTED)
		WATER MAIN (SIZE AS NOTED)
		TELEPHONE DUCT (SIZE AS NOTED)
		OVERHEAD WIRE
		MAIL BOX
		WOOD GUARD RAIL STEEL BEAM GUARD, WOOD OR STEEL POSTS (TYPE AS NOTED)
		STEEL GUARD RAIL, STEEL POSTS (TYPE NOTED)
		STONE WALL
		RETAINING WALL (TYPE NOTED)
		HIGHWAY/PROPERTY BOUND (TYPE AS NOTED)
		STATE HIGHWAY LAYOUT LINE (SHLO)
		CITY, TOWN OR COUNTY LAYOUT LINE (R.O.W.)
		CITY, TOWN, COUNTY OR STATE BOUNDARY LINE
		PROPERTY LINE
		EASEMENT LINE (TYPE NOTED)
		CONSTRUCTION BASELINE
		SURVEY LINE
		RAILROAD OR STREET RAILWAY TRACKS WITH SIDELINES
		WHEELCHAIR RAMP
		TREE (SIZE AND TYPE AS NOTED)
		HEDGE/SHRUBS
		FENCE (SIZE AND TYPE AS NOTED)
		EDGE OF WETLAND w/ FLAGGED NUMBER
		EDGE OF RIVER/STREAM LINE
		100-FT. WETLAND BUFFER LIMIT
		100-FT. RIVER FRONT LIMIT
		200-FT. RIVER FRONT LIMIT
		WOODED AREA / LIMIT OF CLEARING
		SPOT GRADE
		SAW CUT LINE
		TEST PIT
		BORING
		EROSION CONTROL BARRIER/COMPOST FILTER TUBES

# ABBREVIATIONS

## GENERAL

ABAN.	ABANDON
ADJ.	ADJUST
ALT.	ALTERATION
APPROX.	APPROXIMATE
B.	BASELINE
B.B.	BITUMINOUS BERM
B.C.	BITUMINOUS CURB
BD OR BND	BOUND
BLDG.	BUILDING
B.O.	BY OTHERS
BOS	BOTTOM OF SLOPE
BOW	BOTTOM OF WALL
BSW	BACK OF SIDEWALK
C.C.	CONCRETE CURB
CEM.	CEMENT
CLF	CHAIN LINK FENCE
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
DWY	DRIVEWAY
E.P., EOP	EDGE OF PAVEMENT
EL.	ELEVATION
ESMT.	EASEMENT
EXIST.	EXISTING
FDN.	FOUNDATION
GRAN.	GRANITE
GC	GRANITE CURB
HOR.	HORIZONTAL
IP	IRON PIPE
JCT	JUNCTION
LP	LOW POINT
MB	MAIL BOX
MHB	MASSACHUSETTS HIGHWAY BOUND
O.C.	ON CENTER
PCC	POINT OF COMPOUND CURVATURE
PC	POINT OF CURVATURE
PRC	POINT OF REVERSE CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PERM.	PERMANENT
PGL	PROFILE GRADE LINE
PROP.	PROPOSED
PVC	POINT OF VERTICAL CURVATURE
PVMT.	PAVEMENT
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISCARD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
REM.	REMOVE
REMOD.	REMODEL
RET.	RETAIN
RR	RAILROAD
RT.	RIGHT
SB	SOUTH BOUND OR STONE BOUND
SDWK.	SIDEWALK
SHT.	SHEET
SHLD.	SHOULDER
STA.	STATION
TEMP.	TEMPORARY
TOS	TOP OF SLOPE
TOW	TOP OF WALL
TYP.	TYPICAL
VAR.	VARIABLE
VERT.	VERTICAL
VGC	VERTICAL GRANITE CURB
WCR	WHEELCHAIR RAMP

## TRAFFIC SIGNAL SYSTEMS

R	STEADY CIRCULAR RED
Y	STEADY CIRCULAR AMBER
G	STEADY CIRCULAR GREEN
FR	FLASHING CIRCULAR RED
FY	FLASHING CIRCULAR AMBER
+FY	FLASHING YELLOW LEFT ARROW
R-	STEADY RED RIGHT ARROW
Y-	STEADY AMBER RIGHT ARROW
G-	STEADY GREEN RIGHT ARROW
+R	STEADY RED LEFT ARROW
+Y	STEADY AMBER LEFT ARROW
+G	STEADY GREEN LEFT ARROW
W	STEADY WALK (PERSON WALKING) - LUNAR WHITE
DW	STEADY DON'T WALK (HAND) - PORTLAND ORANGE
FDW	FLASHING DON'T WALK (FLASHING HAND) - PORTLAND ORANGE

## UTILITIES

ACCOMP	ASPHALT COATED CORRUGATED METAL PIPE
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CI	CURB INLET
CIP	CAST IRON PIPE
CIT	CHANGE IN TYPE
CMP	CORRUGATED METAL PIPE
C	CONDUIT
CPP	CORRUGATED PLASTIC PIPE
CSP	CORRUGATED STEEL PIPE
DI	DROP INLET
DIP	DUCTILE IRON PIPE
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FM	FORCE MAIN
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GG	GAS GATE
HDW	HEADWALL
HYD.	HYDRANT
INV.	INVERT ELEVATION
LP	LIGHT POLE
MH	MANHOLE
PVC	POLY-VINYL-CHLORIDE PIPE
PWW	PAVED WATER WAY
RCP	REINFORCED CONCRETE PIPE (CLASS III UNLESS NOTED)
SD	SUBDRAIN
SMH	SEWER MANHOLE
TS	TRAFFIC SIGNAL
TSV&B	TAPPING SLEEVE, VALVE AND BOX
UP	UTILITY POLE
UPL	UTILITY POLE w/ LIGHT
UPT	UTILITY POLE w/ TRANSFORMER
VCP	VITRIFIED CLAY PIPE
WIP	WROUGHT IRON PIPE
WG	WATER GATE
WM	WATER METER/WATER MAIN

## TRAFFIC SIGNAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		CONTROL CABINET GROUND MOUNTED WITH FOUNDATION
		CONTROL CABINET POLE MOUNTED
		CONTROLLER PHASE
		MAST ARM, SHAFT & BASE (ARM LENGTH AS NOTED)
		VEHICULAR SIGNAL HEAD (ALPHA-NUMERIC DESIGNATION AS NOTED)
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		VEHICULAR SIGNAL HEAD (REMOVED & RESET)
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD
		PEDESTRIAN SIGNAL HEAD, OPTICALLY PROGRAMMED
		PULL BOX 12"x12" OR HANDHOLE
		LOOP DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		PRE-EMPTION DETECTOR
		PRE-EMPTION CONFIRMATION STROBE
		SIGNAL CONDUIT (SINGLE RUN)
		SIGNAL CONDUIT (DOUBLE RUN)
		SIGNAL POST & BASE
		MAGNETIC DETECTOR
		SCHOOL ZONE SPEED LIMIT SIGN
		MICROWAVE OR ULTRASONIC DETECTOR
		VIDEO DETECTION CAMERA
		VIDEO DETECTION ZONE

## PAVEMENT MARKINGS AND SIGNING SYMBOLS

### PROPOSED

CW	CROSSWALK, 2 - 12" WHITE LINES (8" WIDTH)
SL	STOP LINE - 12" WHITE LINE 4' BEHIND CW (TYP.)
SWEL	SOLID WHITE EDGE LINE - 4"
SWCHL	SOLID WHITE CHANNELIZING LINES - 12" (SPACING NOTED)
SWGL	SOLID WHITE GORE LINE 12" @ 33°, (SPACING NOTED)
SWLL	SOLID WHITE LANE LINE - 4"
SWPL	SOLID WHITE PARKING LINE - 4"
BWLL	BROKEN WHITE LANE LINE - 4"
DWLex	DOTTED WHITE LANE EXTENSION LINE - 4" (2' LINE & 6' GAP)
DYLex	DOTTED YELLOW LANE EXTENSION LINE - 4" (2' LINE & 6' GAP)
BYCL	BROKEN YELLOW CENTERLINE - 4"
DYCL	DOUBLE YELLOW CENTERLINE - 2 - 4" LINES
SYEL	SOLID YELLOW EDGE LINE - 4"
SYGL	SOLID YELLOW GORE LINE 12" @ 33°, (SPACING NOTED)
SYLL	SOLID YELLOW LANE LINE - 4"
SYCTEL	SOLID YELLOW CYCLE TRACK EDGE LINE - 4"
DYCTCL	DOTTED YELLOW CYCLE TRACK CENTERLINE - 4" (3' LINE & 9' GAP)
SCHOOL	SCHOOL ZONE - WHITE
	HANDICAP SYMBOL - WHITE
	PAVEMENT ARROW - WHITE
ONLY	LEGEND "ONLY" - WHITE

BETA GROUP, INC. TEMPLATE (BETA) STANDARD TEMPLATE - 1.0 (2024) CIVIL (3D 2024) PLOT STYLE (BETA) STB (B/W) (STB) USER (CMCCORMICK) 1/28/2028 2:08 PM C:\1140811463 - WILBRAHAM, MA - STONY RD INTERSECTION DRAWING FILES\PLAN\SET1\1463 LEGEND.DWG (BETA) STB (B/W) (STB)

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:	CM
DESIGNED BY:	KL
CHECKED BY:	DJ

REGISTERED PROFESSIONAL  
**For Review Only**



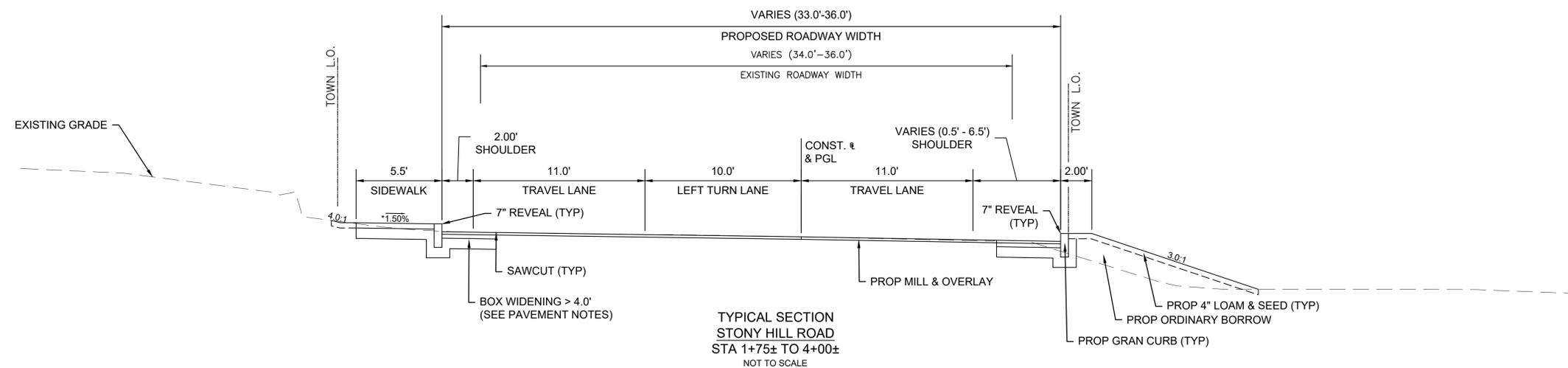
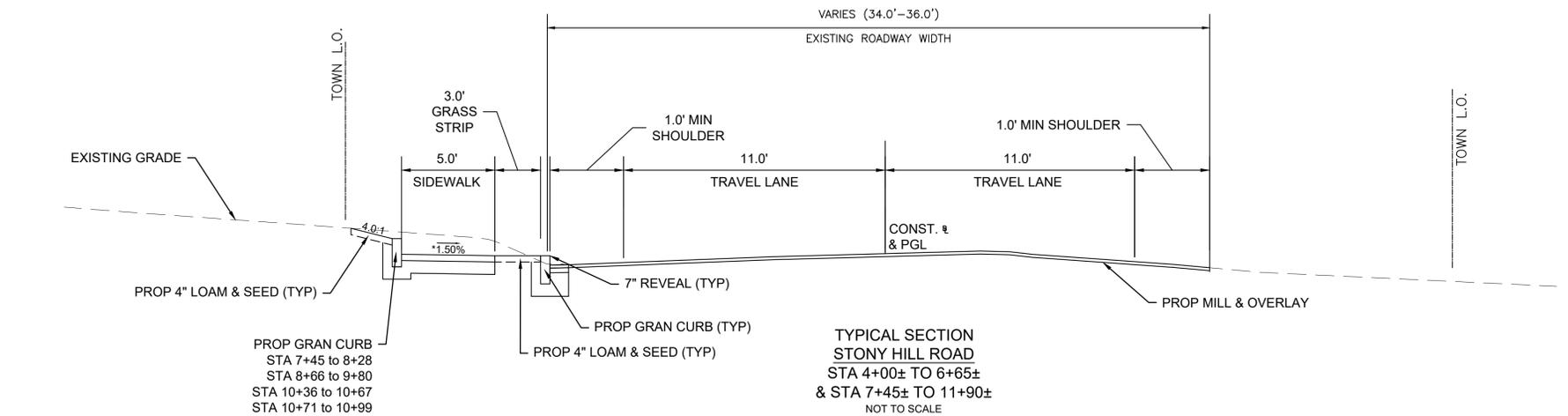
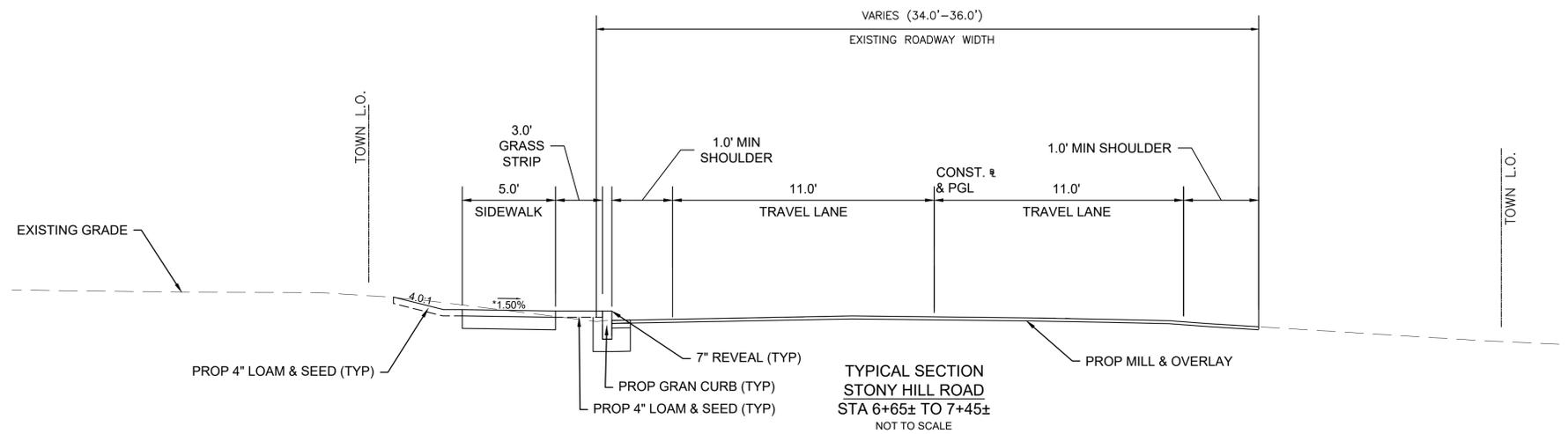
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NONE

TITLE  
**SPRINGFIELD STREET AT STONY HILL ROAD INTERSECTION & SIDEWALK IMPROVEMENTS**  
LEGEND & ABBREVIATIONS  
WILBRAHAM, MA

BETA JOB NO. 11463  
ISSUE DATE 01/26/2025  
SHEET NO. 2 OF 46

1/28/2025 2:07 PM BETA GROUP, INC. TEMPLATE (BETA\_STANDARD\_TEMP.ACTE - 1.0.2024) CIVIL 3D (CIVIL\_3D\_2024) PLOTSTYLE (BETA\_STB.BW.STB) USER(CFERREIRA) C:\11405311463 - WILBRAHAM, MA - STONY RD INTERSECTION DRAWING FILES\PLAN\BET11463 TYP SECDWG (BETA STB.BW.STB)



**PAVEMENT NOTES**

**MILLING AND OVERLAY**

SURFACE COURSE: 2" PAVEMENT STANDARD MILLING  
2" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5)

**FULL DEPTH CONSTRUCTION/BOX WIDENING > 4.0' WIDE**

SURFACE COURSE: 2" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5)  
INTERMEDIATE COURSE: 3" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5)  
SUB-BASE: 4" DENSE GRADED CRUSHED STONE 8" GRAVEL BORROW, TYPE b

**CEMENT CONCRETE SIDEWALKS, WHEELCHAIR RAMPS**

SURFACE: 4" CEMENT CONCRETE WALK SURFACE  
4000 PSI, 3/4", 610 OVER  
FOUNDATION: 8" GRAVEL BORROW, TYPE b

**HMA WALK**

SURFACE: 1-1/4" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5) OVER  
ASPHALT EMULSION FOR TACK COAT OVER  
1-3/4" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5) OVER  
FOUNDATION: 8" GRAVEL BORROW, TYPE b

**CEMENT CONCRETE DRIVEWAY APRONS**

SURFACE: 6" CEMENT CONCRETE WALK SURFACE  
4000 PSI, 3/4", 610 OVER  
FOUNDATION: 8" GRAVEL BORROW, TYPE b

**HMA DRIVEWAYS & APRONS**

SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5) OVER  
2-1/2" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5) OVER  
FOUNDATION: 8" GRAVEL BORROW, TYPE b

**PAVEMENT NOTES**

- ALL HMA FOR PATCHING, ASPHALT EMULSION FOR TACK COAT AND HMA JOINT SEALANT SHALL BE INSTALLED PER SECTION 450.
- TACK COAT SHALL BE APPLIED FOR UNIFORM COVERAGE OF 90% AT RATE OF 0.07 GALLONS PER SQUARE YARD FOR MILLED SURFACES AND 0.05 GALLONS PER SQUARE YARD FOR MILLED SURFACES AND 0.05 GALLONS PER SQUARE YARD FOR SMOOTH TIGHT PAVED SURFACES.

\*TOLERANCE FOR CONSTRUCTION ±0.5%

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:  
CM  
DESIGNED BY:  
KL  
CHECKED BY:  
DJ

REGISTERED PROFESSIONAL  
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PREPARED BY  
SUBCONSULTANT

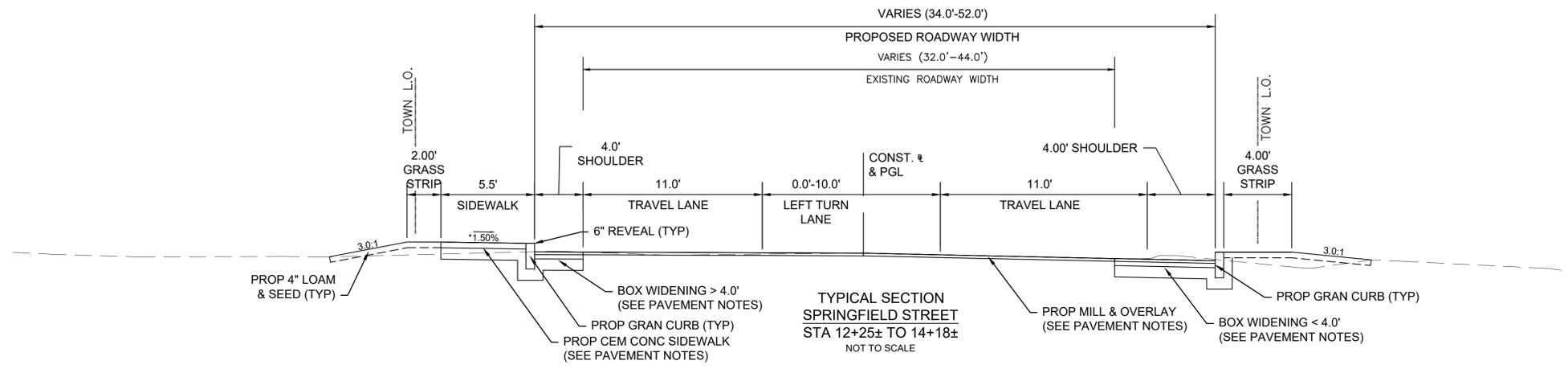
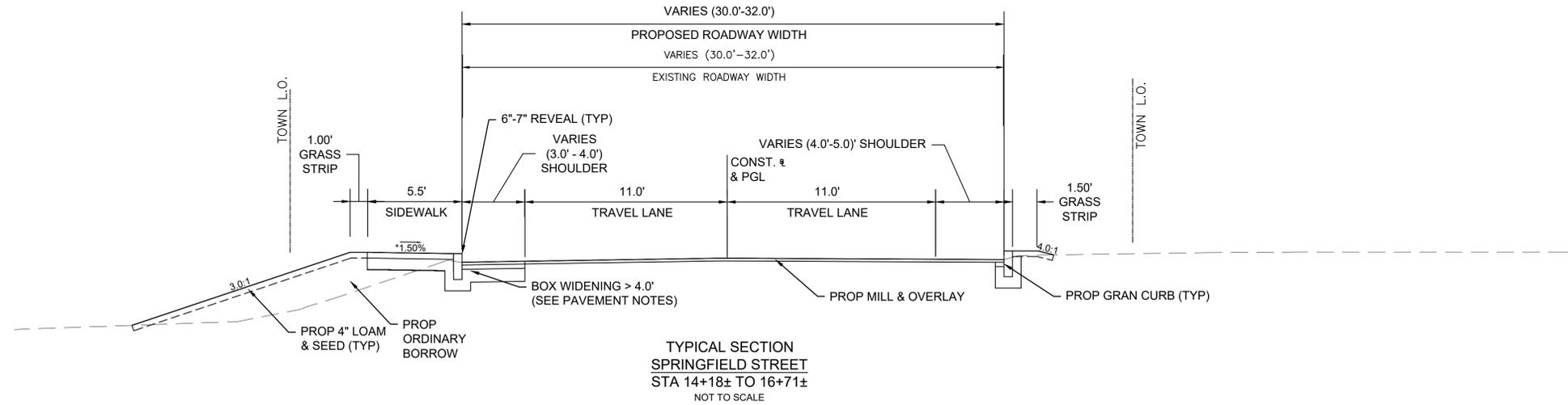
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TITLE  
**SPRINGFIELD STREET AT STONY HILL ROAD INTERSECTION & SIDEWALK IMPROVEMENTS**  
TYPICAL SECTIONS - STONY HILL ROAD  
WILBRAHAM, MA

BETA JOB NO. 11463  
ISSUE DATE 01/26/2025  
SHEET NO. 3 OF 46

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SEE SHEET 3 FOR PAVEMENT NOTES



\*TOLERANCE FOR CONSTRUCTION ±0.5%

1/28/2028 2:09 PM BETA GROUP, INC. TEMPLATE (BETA\_STANDARD\_TEMP).DTE - 1.0 (2024) CIVIL\_3D (2024) PLOTSTYLE (BETA\_STB.BW.STB) USER(CFERREIRA) C:\1140511463 - WILBRAHAM, MA - STONY RD INTERSECTION\DRAWING FILES\PLANSET\11463\_TYP\_SECTION (BETA\_STB.BW.STB)

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KL  
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 SUBCONSULTANT

SCALE  
 NONE

TITLE  
**SPRINGFIELD STREET AT STONY HILL ROAD INTERSECTION & SIDEWALK IMPROVEMENTS**  
 TYPICAL SECTIONS - SPRINGFIELD STREET & PAVEMENT NOTES  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 4 OF 46

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

**GENERAL NOTES**

1. HORIZONTAL CONTROL, IN FEET, IS BASED ON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD 83). THE VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR THE RESOLUTION OF THE CONFLICT.
3. THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE AND SANITARY STRUCTURES AS NECESSARY FOR THE CHANGES IN GRADE, AND RESET ALL WATER AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE. REQUIRED NEW MASONRY SHALL BE CLAY BRICK CONFORMING TO M4.05.2.
4. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, CABLE TV, FIRE ALARM AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES. ALL UTILITY CASTING SHALL BE ADJUSTED TO FINISH GRADE BY THEIR RESPECTIVE OWNERS.
5. SURVEY PLAN HAS BEEN PREPARED BY SHERMAN AND FRYDRYCK LAND SURVEYORS, ENGINEERS, AND SCIENTISTS. THE CONTRACTOR SHALL VERIFY BASEPLAN INFORMATION SHOWN ON THE PLANS TO ENSURE THAT CONSTRUCTION CAN PROCEED AS INTENDED.
6. THE LOCATION OF SUBSURFACE UTILITIES SHOWN IS APPROXIMATE AND NOT GUARANTEED TO BE COMPLETE OR ACCURATE. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITY LINES AND STRUCTURES PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR MUST NOTIFY DIG SAFE PRIOR TO ANY EXCAVATION, DEMOLITION OR EXPLOSION WORK IN PUBLIC OR PRIVATE WAYS OR UTILITY COMPANY RIGHT-OF-WAY OR EASEMENT.
7. THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
8. ALL DRAINAGE STRUCTURES SHALL BE RETAINED UNLESS NOTED OTHERWISE.
9. JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACKSANDED.
10. CATCH BASIN AND MANHOLE FRAMES AND GRATES/COVERS SHALL CLEARLY ALIGN WITH THE OPENINGS IN THE PRECAST STRUCTURES AND THE GRADE OF THE ROADWAY.
11. ALL EXISTING DRAINAGE LINES TO BE REPLACED SHALL BE ABANDONED IN PLACE. IF THEY CONFLICT WITH THE PROPOSED DRAINAGE LINES THEY SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
12. WHERE DRAINAGE PIPES OR STRUCTURES ARE ABANDONED IN PLACE THE CONTRACTOR SHALL MAKE SURE THAT ALL CONNECTING PIPES, INLETS AND OUTLETS ARE PLUGGED. ALL LIVE CONNECTIONS SHALL BE CONNECTED TO THE NEW SYSTEM.
13. ALL CURB TIE DIMENSIONS ARE TO THE FACE OF THE CURB (GUTTER LINE) OR EDGE OF TRAVEL WAY.
14. PROPOSED SIDEWALKS AND WHEELCHAIR RAMPS SHALL BE CONSTRUCTED TO THE NEAREST SCORE LINE OR EXPANSION JOINT IN THE EXISTING ADJACENT WALK SURFACE AS DIRECTED BY THE ENGINEER.
15. CONTRACTOR SHALL VERIFY LOCATION OF ALL OBJECTS (SIGNS, TREES, GRATE, POLES ETC.) TO BE SET WITHIN SIDEWALK PRIOR TO FINAL PLACEMENT TO PROVIDE A MINIMUM CLEAR PATH OF 36" EXCLUDING THE CURB. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY LOCATION WHICH CANNOT MEET THE CLEARANCE REQUIREMENTS.
16. SIGNS, POLES AND OTHER FEATURES LOCATED IN PROPOSED CEMENT CONCRETE SIDEWALK SHALL BE BOXED AND PROVIDED FLEXIBLE JOINT FILLER.
17. IN AREAS OF NEW SIDEWALK, NEW EDGE OF PAVEMENT OR CURB WITHOUT SIDEWALK OR ANY WORK ADJACENT TO EXISTING GRASS AREAS, EVEN WHEN NO SLOPE-MATCHING OR GRADING IS NECESSARY AND THE EXISTING GRADE IS MET, LOAM BORROW AND SEED SHALL BE PROVIDED AS NECESSARY TO REPAIR AND COMPLETE ANY DAMAGE TO THE GRADE CAUSED BY THE CONSTRUCTION PROCESS.
18. PROPOSED SIDEWALKS AND PEDESTRIAN CURB RAMPS SHALL BE CONSTRUCTED TO THE NEAREST SCORE LINE OR EXPANSION JOINT IN THE EXISTING ADJACENT WALK SURFACE AS DIRECTED BY THE ENGINEER.
19. IN ALL LOCATIONS WHERE PROPOSED SIDEWALK TRANSITIONS DOWN TO MEET EXISTING GRADE, EXISTING SIDEWALK OR PAVED AREA, SLOPE SHALL NOT EXCEED 1:12.
20. MINIMUM CLEAR PATH ON ALL SIDEWALKS SHALL BE 48in, EXCLUDING THE CURB.
21. CONTRACTOR SHALL VERIFY LOCATION OF ALL OBJECTS (SIGNS, POLES ETC.) TO BE SET WITHIN SIDEWALK PRIOR TO FINAL PLACEMENT TO PROVIDE A MINIMUM CLEAR PATH OF 48in. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY LOCATION WHICH CANNOT MEET THE CLEARANCE REQUIREMENTS.
22. SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS SHALL BE IN ACCORDANCE WITH MASSDOT REQUIREMENTS AND THE LATEST VERSION OF THE MUTCD.
23. WHEN WORKING NEXT TO EXISTING WALLS, BERMS, AND OTHER STRUCTURES, CONTRACTOR SHALL EXERCISE EXTREME CAUTION NOT TO DISTURB THE EXISTING STRUCTURES. ANY DAMAGE TO THE EXISTING STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
25. CONTRACTOR SHALL VERIFY EXISTING GRADES. IF ANY ADJUSTMENT IS REQUIRED DUE TO DIFFERENT EXISTING GRADES FOUND IN THE FIELD, THE CONTRACTOR SHALL NOTIFY AND SEEK THE APPROVAL OF THE ENGINEER PRIOR TO PERFORMING THE WORK.
26. IN AREAS OF NEW SIDEWALK, NEW EDGE OF PAVEMENT OR CURB WITHOUT SIDEWALK OR ANY WORK ADJACENT TO EXISTING GRASS AREAS, EVEN WHEN NO SLOPE-MATCHING OR GRADING IS NECESSARY AND THE EXISTING GRADE IS MET, LOAM BORROW AND SEED SHALL BE PROVIDED AS NECESSARY TO REPAIR AND COMPLETE ANY DAMAGE TO THE GRADE CAUSED BY THE CONSTRUCTION PROCESS.
27. IN FILL AREAS, TOP SOIL SHALL BE REMOVED FOR A DEPTH OF 12in (MIN.) OR AS DIRECTED BY THE ENGINEER. SUBGRADE AREAS WILL BE COMPACTED PRIOR TO THE PLACEMENT OF FILL MATERIAL.
28. ANY EXISTING GRANITE CURB AND CURB INLETS IN AREAS OF CONSTRUCTION SHALL BE R&R AS SHOWN ON PLANS AND AS DIRECTED BY THE TOWN. THE TOWN WILL DETERMINE WHICH CURBS, AMONG EXISTING SIDEWALK AND MEDIAN CURBS, SHALL BE R&R OR R&S. ALL EXISTING CURB CORNERS SHALL BE R&S UNLESS OTHERWISE NOTED ON THE PLANS.
29. WETLAND RESOURCE AREAS WERE DELINEATED ON AUGUST 29, 2024 BY BETA GROUP, INC. AS SHOWN ON THESE PLANS.

**PEDESTRIAN CURB RAMP NOTES**

1. ALL PEDESTRIAN CURB RAMPS SHALL CONFORM TO THE REQUIREMENTS OF THE ARCHITECTURAL ACCESS BOARD (A.A.B.) AND THE AMERICANS WITH DISABILITIES ACT (A.D.A.) AND THE LATEST MASSDOT STANDARDS.
2. THE LOCATION OF PROPOSED PEDESTRIAN CURB RAMPS ARE SHOWN ON CONSTRUCTION PLANS AND THE PEDESTRIAN CURB RAMP DETAILS. EXACT LOCATIONS MAY BE ADJUSTED, IF NECESSARY, BY THE ENGINEER IN THE FIELD.
3. ALL PROPOSED PEDESTRIAN CURB RAMPS SHALL HAVE DETECTABLE WARNING PANELS INSTALLED IN ACCORDANCE WITH MASSDOT CONSTRUCTION STANDARD DRAWINGS. THE COLOR OF THE PANEL SHALL BE BRICK RED AND APPROVED BY THE ENGINEER.
4. IN INSTANCES WHERE AN EXISTING MANHOLE, HANDHOLE OR OTHER "SURFACE" TYPE STRUCTURE THAT CANNOT BE REMOVED OR RESET, IS WITHIN THE ACTUAL PEDESTRIAN CURB RAMP PATH, THE STRUCTURE SHALL BE CAREFULLY ADJUSTED SUCH THAT THE TOPMOST SURFACES OF THE STRUCTURE COVER SHALL BE FLUSH WITH THE RAMP SURFACE AND SHALL MATCH THE SLOPE OF THE NEW PEDESTRIAN CURB RAMP AS DIRECTED BY THE ENGINEER.
5. THE TRANSITION SLOPE OF ANY CURB RAMP, EXCEPT MAXIMUM LENGTH HIGH SIDE TRANSITIONS, SHALL NOT EXCEED 7.5%, +/-0.5% FOR TOLERANCE OF CONSTRUCTION. PER AAB 521 CMR, FINISHED SLOPE MAY NOT EXCEED 8.00%. PROPOSED PEDESTRIAN CURB RAMP SLOPES, ESPECIALLY HIGH SIDE TRANSITIONS, SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO POURING OF CONCRETE AND ADJUSTED, IF NECESSARY, AT THE DIRECTION OF THE ENGINEER.

1/28/2028 2:07 PM BETA GROUP INC. TEMPLATE (BETA) STANDARD TEMPLATE - 1.0 (2024) CIVIL 3D (CIVIL\_3D\_2024) PLOTSTYLE (BETA) STB.BW (STB) USER(CFERREIRA) C:\1140511463 - WILBRAHAM, MA - STONY RD INTERSECTION DRAWING FILES\PLAN\SET1\1463 DETAILS.DWG (BETA) STB.BW (STB)

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY: CM
DESIGNED BY: KL
CHECKED BY: DJ

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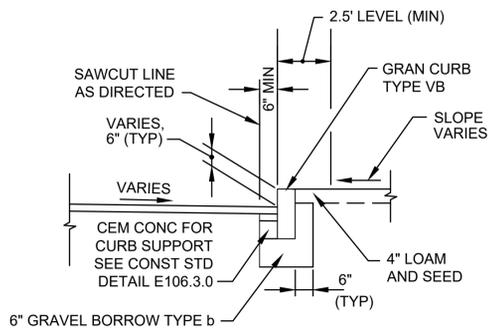
PREPARED BY  
SUBCONSULTANT

SCALE  
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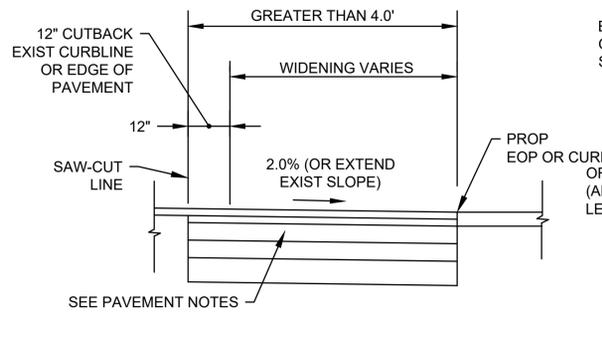
TITLE  
**SPRINGFIELD STREET AT STONY HILL ROAD  
 INTERSECTION & SIDEWALK IMPROVEMENTS**  
 GENERAL NOTES, PAVEMENT NOTES  
 & CONSTRUCTION DETAILS  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 5 OF 46

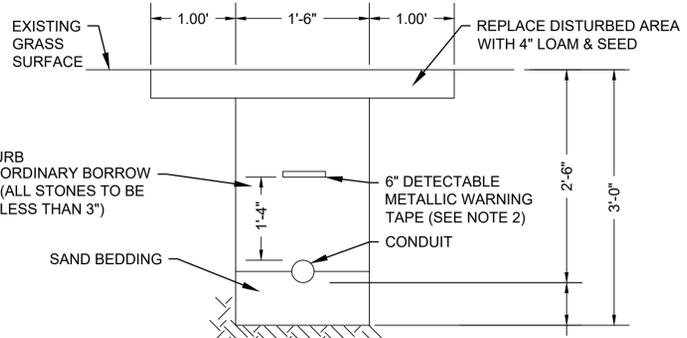
BETA GROUP, INC. TEMPLATE (BETA\_STANDARD\_TEMP). DATE: 1.0.2024 CIVIL 05 (CIVIL\_3D 2024) PLOT STYLE (BETA\_STB.BW.DWG) USER(CFERREIRA)  
 01/14/2025 11:46:31 AM - WILBRAHAM, MA - STONY RD INTERSECTION DRAWING FILES\PLANSET1\463 DETAILS.DWG (BETA\_STB.BW.DWG)



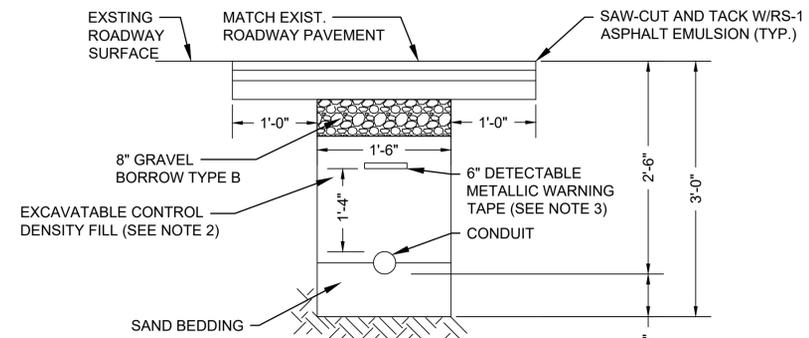
**DETAIL FOR GRANITE CURB WITHOUT SIDEWALK IN MILLING AREA**  
NOT TO SCALE



**DETAIL FOR BOX WIDENING GREATER THAN 4.0'**  
NOT TO SCALE

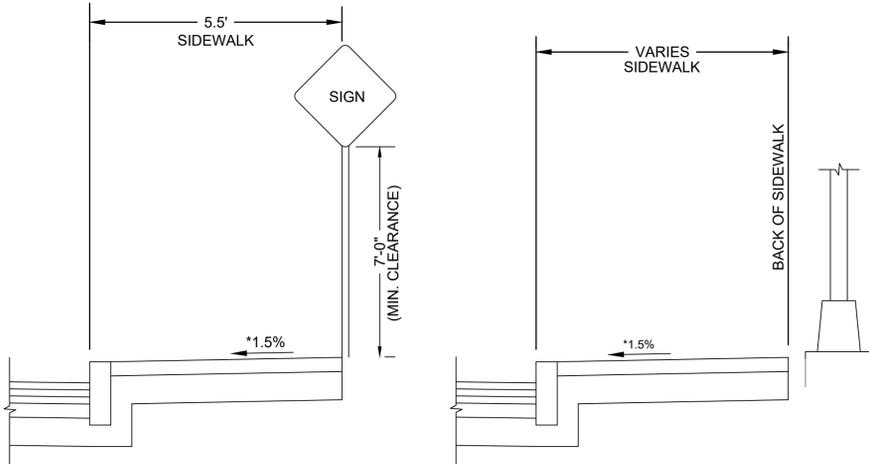


**CONDUIT UNDER GRASS AREAS**  
NOT TO SCALE



**CONDUIT CROSSING ROADWAY**  
NOT TO SCALE

- NOTES:
- SCHEDULE 80 ELECTRICAL CONDUIT TYPE NM-PLASTIC (UL), WITH PULL ROPE UNLESS OTHERWISE APPROVED BY MASSDOT.
  - CONTROL DENSITY FILL SHALL MEET THE REQUIREMENTS OF SUBSECTION M4.08.0
  - WARNING TAPE SHALL BE PER CURRENT APWA STANDARDS.



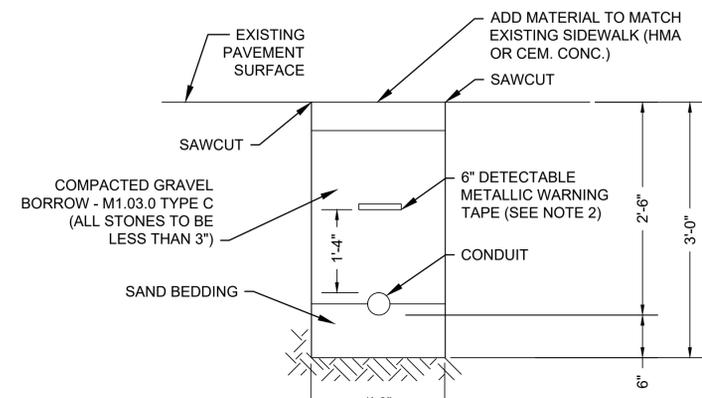
**TRAFFIC SIGN**  
NOT TO SCALE

**TRAFFIC SIGNAL FOUNDATION**  
NOT TO SCALE

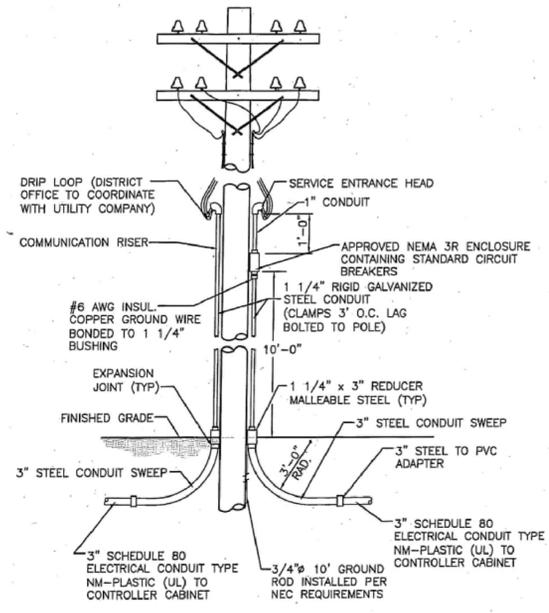
**DETAILS SHOWING SIDEWALK CLEARANCES**

- NOTES:
- MINIMUM CLEAR PATH ON ALL SIDEWALKS SHALL 36 INCHES, EXCLUDING THE CURB.
  - CONTRACTOR SHALL VERIFY LOCATION OF ALL OBJECTS (SIGNS, POLES ETC.) TO BE SET WITHIN SIDEWALK PRIOR TO FINAL PLACEMENT TO PROVIDE A MINIMUM CLEAR PATH OF 36 INCHES NOT INCLUDING CURB. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY LOCATION WHICH CANNOT MEET THE CLEARANCE REQUIREMENTS.

\* TOLERANCE FOR CONSTRUCTION ±0.5%

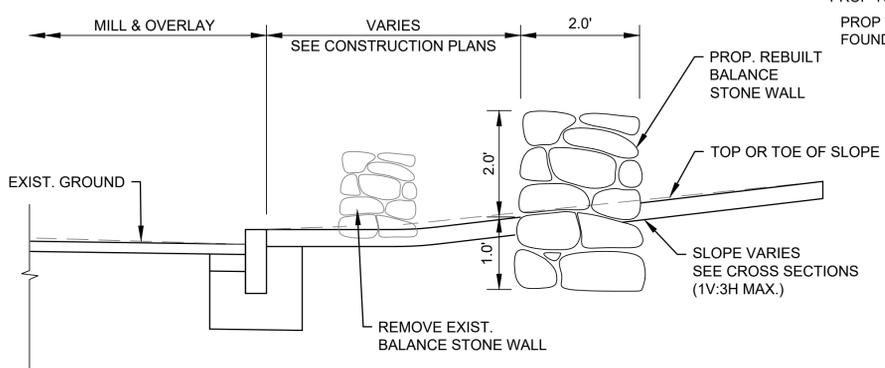


**CONDUIT UNDER SIDEWALK AREAS**  
NOT TO SCALE



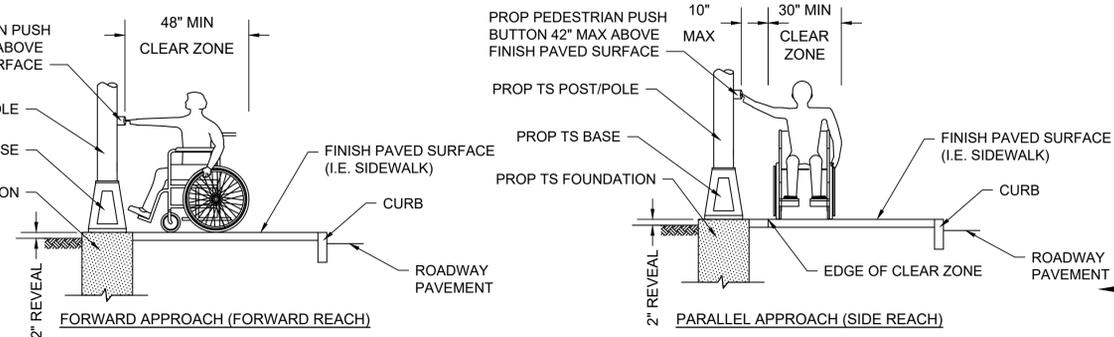
NOTE: SPECIFIC ATTACHMENT AND CONNECTION REQUIREMENTS MAY VARY. COORDINATION WITH THE LOCAL UTILITY COMPANY IS REQUIRED BY THE CONTRACTOR.

**TRAFFIC SIGNAL SERVICE CONNECTION - OVERHEAD**  
NOT TO SCALE



NOTE: PROVIDE ADDITIONAL FIELD STONE MASONRY (M9.04.4) AS MAY BE NECESSARY TO REBUILD THE STONE WALL TO THE DIMENSIONS SHOWN ABOVE AND ON THE CONSTRUCTION PLANS.

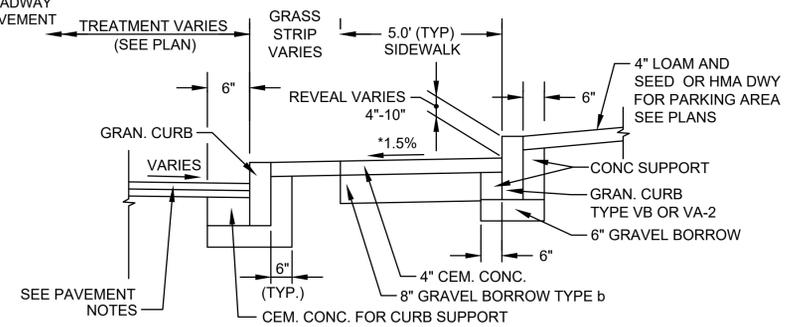
**DETAIL FOR BALANCE STONE WALL REMOVED AND REBUILT**  
NOT TO SCALE



**PEDESTRIAN PUSH BUTTON CLEAR ZONE**  
NOT TO SCALE

- NOTE:
- A CLEAR GROUND SPACE SHALL CONSIST OF A STABLE AND FIRM AREA, COMPLYING WITH 521 CMR 6.5 (FORWARD REACH) OR 521 CMR 6.6 (SIDE REACH) AND SHALL BE PROVIDED AT EACH OF THE PEDESTRIAN PUSH BUTTONS.
- WHERE A FORWARD APPROACH IS PROVIDED, PEDESTRIAN PUSH BUTTONS SHALL ABUT AND BE CENTERED ON THE CLEAR GROUND SPACE.
  - WHERE A PARALLEL APPROACH IS PROVIDED, PEDESTRIAN PUSH BUTTONS SHALL BE WITHIN TEN INCHES (10") HORIZONTALLY OF AND CENTERED ON THE CLEAR GROUND SPACE.

\* TOLERANCE FOR CONSTRUCTION ±0.5%



**DETAIL FOR GRANITE CURB AT BACK OF SIDEWALK**  
NOT TO SCALE

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:  
CM

DESIGNED BY:  
KL

CHECKED BY:  
DJ

REGISTERED PROFESSIONAL

PREPARED BY

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SUBCONSULTANT

SCALE

NONE

TITLE

**SPRINGFIELD STREET AT STONY HILL ROAD INTERSECTION & SIDEWALK IMPROVEMENTS**

CONSTRUCTION DETAILS

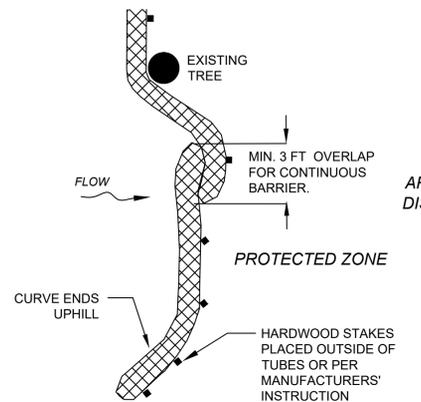
WILBRAHAM, MA

BETA JOB NO. 11463

ISSUE DATE 01/26/2025

SHEET NO. 6 OF 46

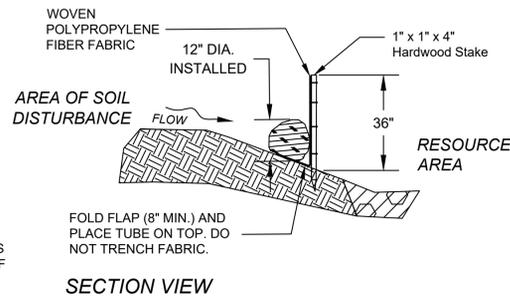
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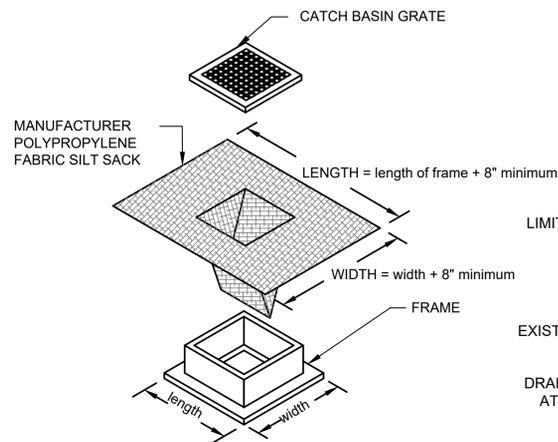
- PLACE TUBE ALONG CONTOURS AND PERPENDICULAR TO FLOW.
- PLACE AS CLOSE TO LIMIT OF SOIL DISTURBANCE AS POSSIBLE.
- ADJUST LOCATION AS REQUIRED FOR OPTIMUM EFFECTIVENESS. DO NOT INSTALL IN WATERWAYS.
- PLACE STAKES AS NEEDED TO SECURE TUBES IN PLACE.

**PLAN VIEW**

**SEDIMENT BARRIER - COMPOST FILTER TUBE**  
NOT TO SCALE



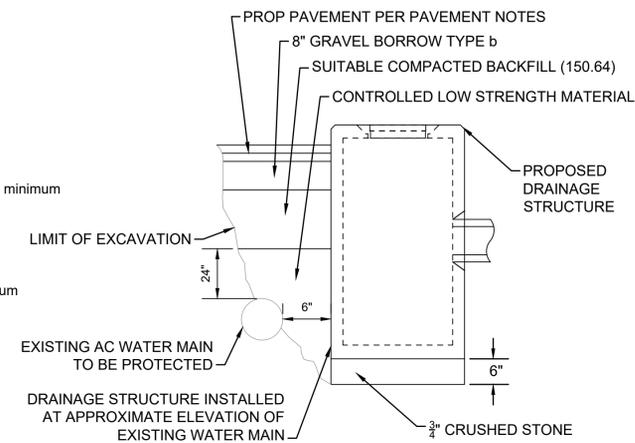
**SECTION VIEW**



**NOTES**

- LENGTH AND WIDTH OF POLYPROPYLENE FABRIC MUST EXCEED EXISTING CATCH BASIN FRAME DIMENSIONS BY A MINIMUM OF 8".
- REMOVE CATCH BASIN GRATE AND INSTALL POLYPROPYLENE FABRIC OVER CATCH BASIN FRAME. REPLACE CATCH BASIN GRATE TO SECURE POLYPROPYLENE FABRIC IN PLACE.
- FOR USE ON ALL EXISTING CATCH BASINS WITHIN THE PROJECT LIMITS AND PROPOSED CATCH BASINS THAT ARE IN OPERATION DURING CONSTRUCTION.

**SILT SACK**  
NOT TO SCALE

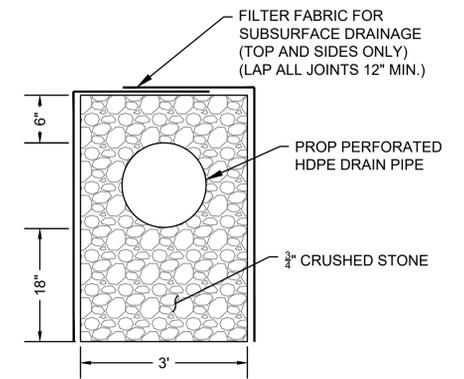


**NOTES**

- HAND OR OTHER NON-DESTRUCTIVE EXCAVATION SHALL BE PERFORMED WITHIN 2 FEET OF EXISTING CONCRETE WATER MAIN.
- EXCAVATION SHALL BE PERFORMED IN SUCH A MANNER TO ENSURE THE EXISTING CONCRETE WATER MAIN IS NOT UNDERMINED.

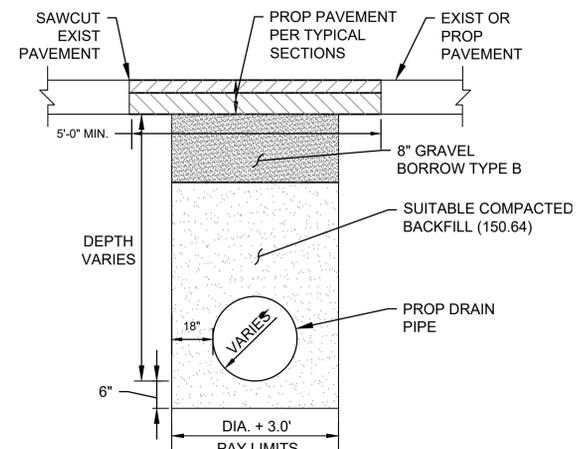
**DRAINAGE INSTALLATION AT EXISTING CONCRETE WATER MAIN DETAIL**

NOT TO SCALE



**PERFORATED HDPE INFILTRATION TRENCH**

NOT TO SCALE

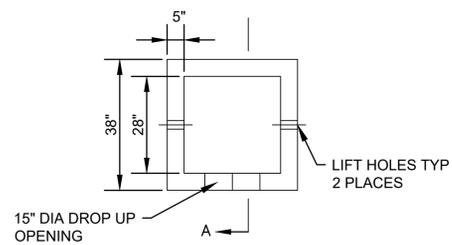


**NOTES**

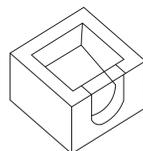
- ANY EXCAVATED MATERIALS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILL SHALL BE REPLACED WITH GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES AND PAID FOR UNDER ITEM 151.2.

**PERMANENT DRAINAGE TRENCH IN MILL AND OVERLAY AREAS**

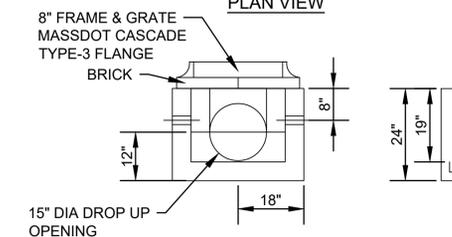
NOT TO SCALE



**PLAN VIEW**



**ISOMETRIC**



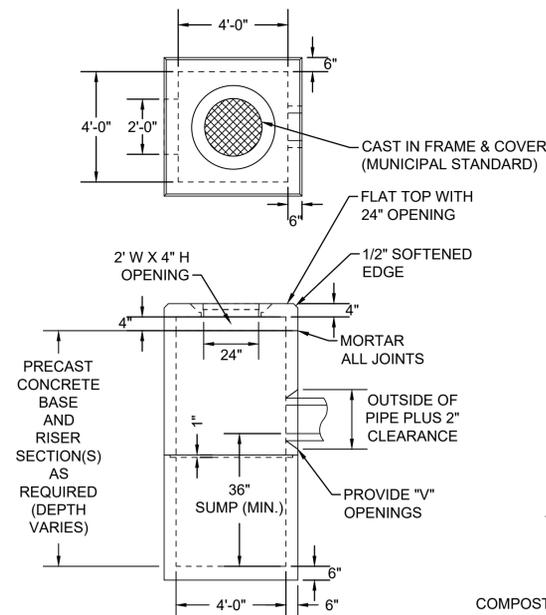
**SECTION A-A**

**NOTES**

- DESIGNED FOR AASHTO HS25-44 LOADING
- CONCRETE STRENGTH  $f_c=4000$  PSI
- REINFORCING STEEL: ASTM A185 (wwf)  $f_y=60,000$  PSI
- CURB INLETS ARE REQUIRED WHEN GUTTER INLETS ARE INSTALLED AGAINST CURBING.

**SPECIAL GUTTER INLET**

NOT TO SCALE  
(ITEM 204.11)

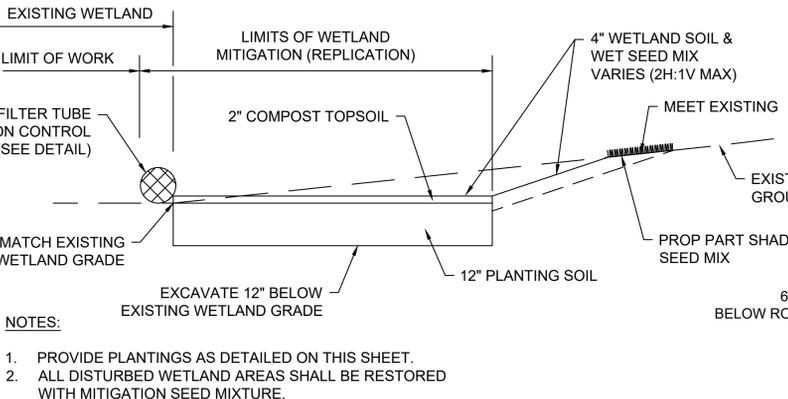
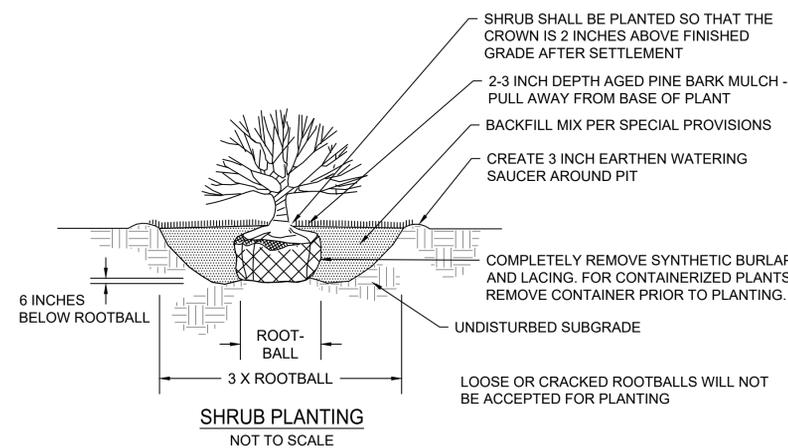


**NOTES**

- CONCRETE STRENGTH 4,000 PSI @ 28 DAYS.
- CEMENT: PORTLAND TYPE II PER ASTM C150.
- STEEL REINFORCING PER ASTM A-615, GRADE 60.
- MIN. 0.12 SQ. IN STEEL PER VERTICAL FOOT, PLACED ACCORDING TO AASHTO DESIGNATION M199.
- BASE AND RISER SECTION DESIGN LOADING PER AASHTO H-20. TOP COVER DESIGN LOADING PER AASHTO H-10
- FACE OF PIPE FLUSH OR NOT TO PROJECT MORE THAN 4" FROM FACE OF WALL ALONG CENTERLINE OF PIPE.

**PRECAST CONCRETE BRADLEY HEAD CATCH BASIN**

NOT TO SCALE

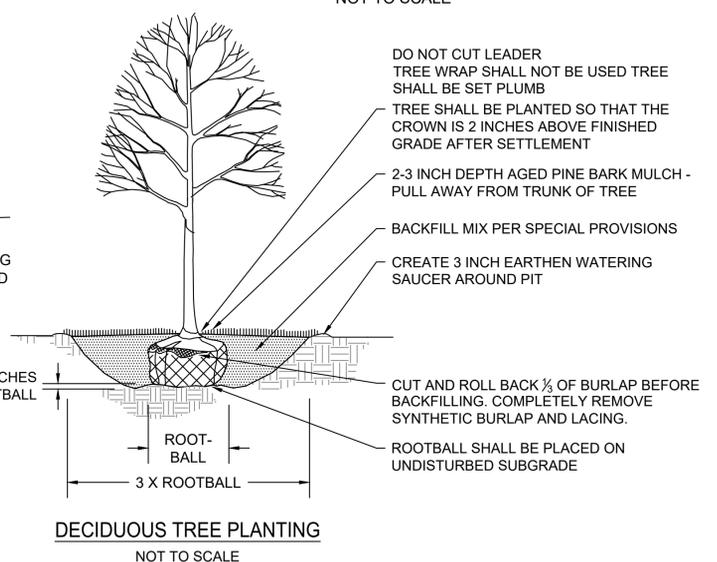


**NOTES**

- PROVIDE PLANTINGS AS DETAILED ON THIS SHEET.
- ALL DISTURBED WETLAND AREAS SHALL BE RESTORED WITH MITIGATION SEED MIXTURE.

**WETLAND REPLICATION AREA DETAIL**

NOT TO SCALE



BETA GROUP, INC. TEMPLATE (BETA) STANDARD TEMPLATE - 1.0 (2024) CIVIL 3D (2024) PLOT STYLE (BETA) STB.BW (STB) USER(CFERREIRA) 01/14/2025 2:08 PM C:\114051\1463 - WILBRAHAM, MA - STONY RD INTERSECTION DRAWING FILES\PLANSET1\1463 DETAILS.DWG (BETA) STB.BW (STB)

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:	CM
DESIGNED BY:	KL
CHECKED BY:	DJ

REGISTERED PROFESSIONAL PREPARED BY

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	NONE	

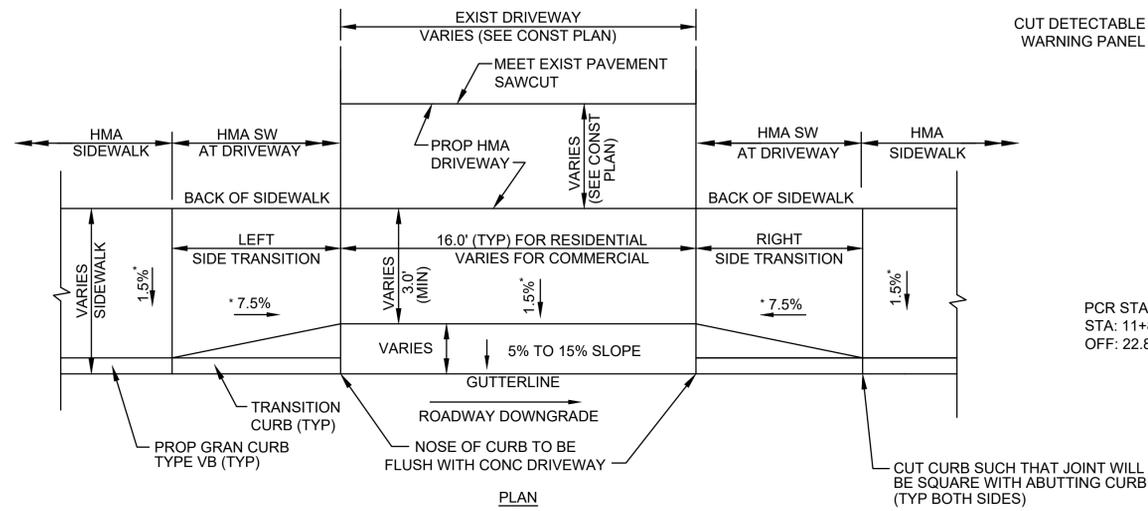
**SPRINGFIELD STREET AT STONY HILL ROAD INTERSECTION & SIDEWALK IMPROVEMENTS**

CONSTRUCTION DETAILS

WILBRAHAM, MA

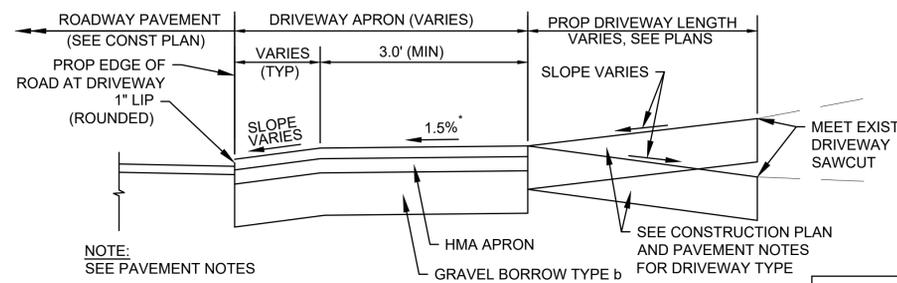
BETA JOB NO.	11463
ISSUE DATE	01/26/2025
SHEET NO.	7 OF 46

1/28/2028 2:08 PM BETA GROUP INC. TEMPLATE (BETA) STANDARD TEMPLATE - 1.0 (2024) CIVIL 3D (CIVIL 3D 2024) PLOT STYLE (BETA) STB.BW (STB) USER(CFERREIRA) C:\1140511463 - WILBRAHAM, MA - STONY RD INTERSECTION DRAWING FILES\PLANS\B11463 DETAILS.DWG (BETA) STB.BW (STB)



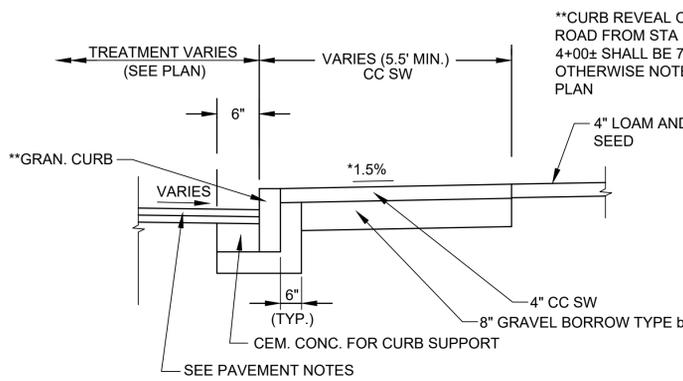
**DETAIL FOR TYPICAL DRIVEWAY WITH SIDEWALK - TYPE A**

NOT TO SCALE  
 MASSDOT CONST. STD. DWG. NO. E107.7.0



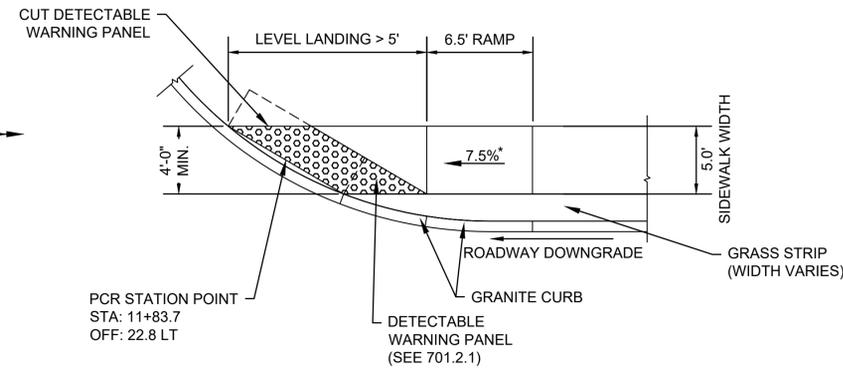
**SECTION FOR TYPICAL HMA DRIVEWAY WITH SIDEWALK**

NOT TO SCALE



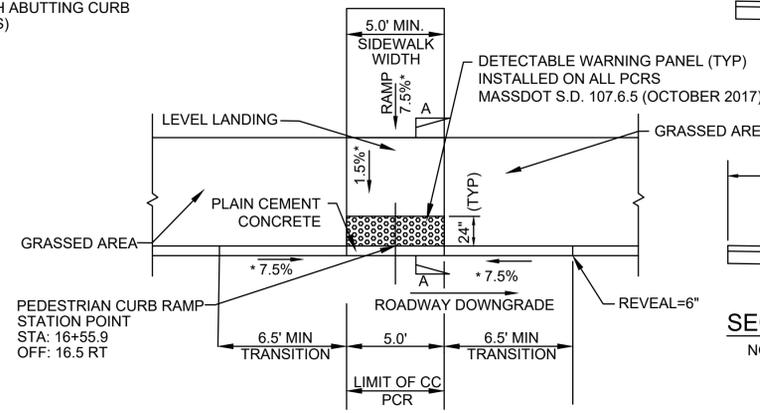
**DETAIL FOR SIDEWALK**

NOT TO SCALE



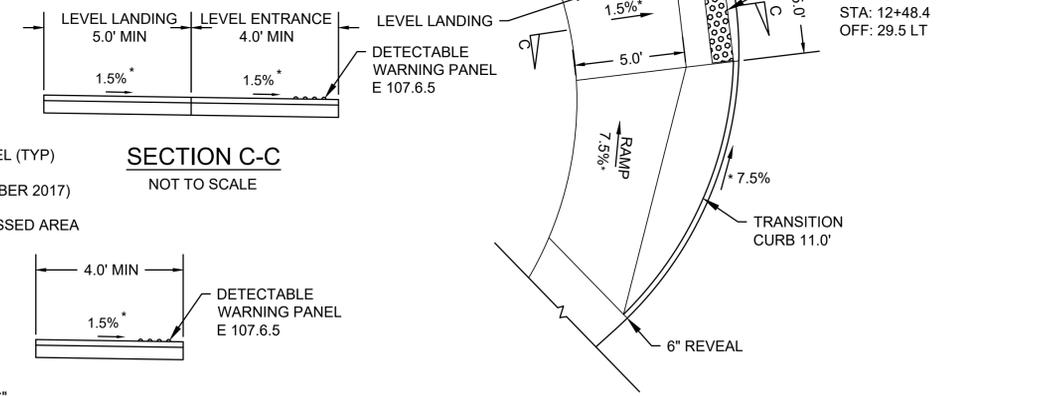
**PEDESTRIAN CURB #5 RAMP**

NOT TO SCALE



**PEDESTRIAN CURB RAMP #2 DETAIL**

NOT TO SCALE



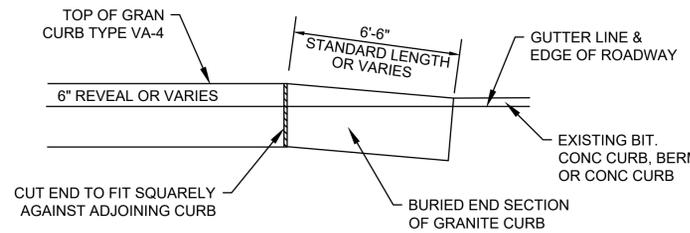
**PEDESTRIAN CURB RAMP DETAIL #6**

NOT TO SCALE

TABLE I	
ROADWAY PROFILE GRADE	* HIGH SIDE TRANSITION LENGTH
%	ENGLISH UNITS
=0%	6'-6"
>0% TO 1%	7'-8"
>1% TO 2%	9'-0"
>2% TO 3%	11'-0"
>3% TO 4%	14'-0"
>4% TO 5%	15'-0" MAX.

**CURB TRANSITION LENGTH FOR PEDESTRIAN CURB RAMPS**

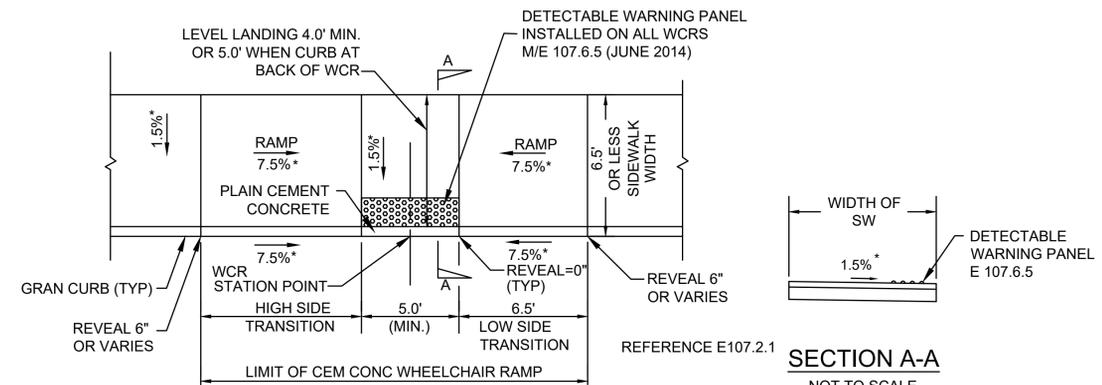
MASSDOT CONST. STD. DWG. NO. E107.9.0  
 \*BASED ON A DESIGN SLOPE OF 7.5% AND A REVEAL OF 6".



**DETAIL FOR TRANSITION CURB**  
**TRANSITION CURB - PROP CURB TO EXISTING CURB**

NOT TO SCALE

PEDESTRIAN CURB RAMP #1, 3, 4 DATA									
PCR NO.	LOCATION	RAMP REFERENCE POINT		GUTTER PROFILE SLOPE	WIDTH OF RAMP OPENING W	DEPTH OF LEVEL LANDING (MIN. 4.0')	TRANSITION LENGTH		SIDEWALK WIDTH
		STATION	OFFSET				LEFT	RIGHT	
1	STONY HILL	1+57.5	25.7 LT	-3.7%	5.0'	5.5'	-	7.58' 7'R	5.5'
3	SPRINGFIELD	16+55.9	16.2 LT	0.30%	5.0'	5.5'	7.67' 6'R	6.5' 6'R	5.5'
4	STONY HILL	1+81.2	37.3 RT	-2.8%	6.0'	5.5'	-	7.58' 7'R	5.5'



**PEDESTRIAN CURB RAMP #1,3,4 DETAIL**

NOT TO SCALE

NOTE: PCR #1 AND #4 DO NOT HAVE LEFT TRANSITION

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

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DESIGNED BY:	KL
CHECKED BY:	DJ

REGISTERED PROFESSIONAL  
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SUBCONSULTANT

SCALE  
 NONE

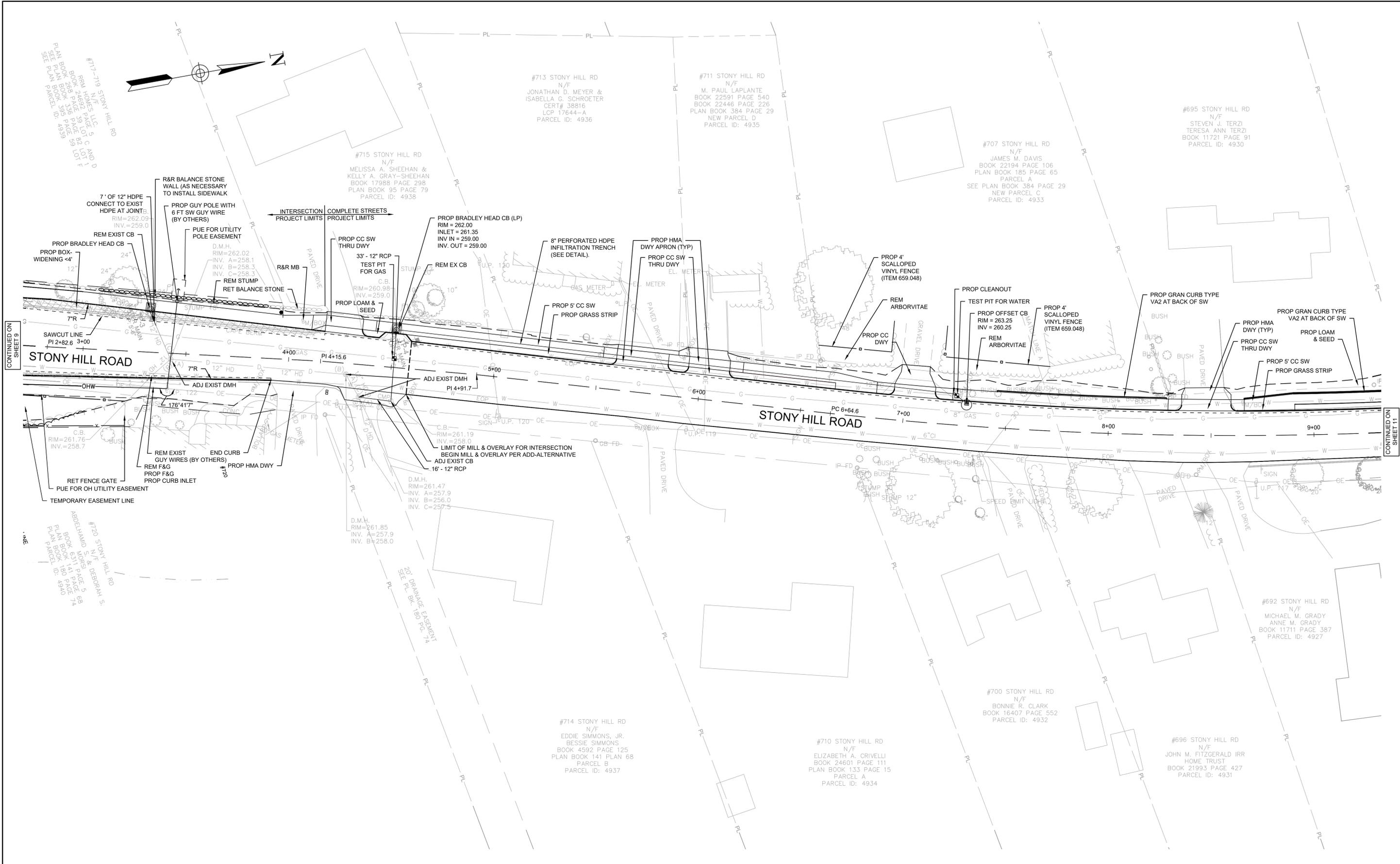
TITLE  
**SPRINGFIELD STREET AT STONY HILL ROAD INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CONSTRUCTION DETAILS  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 8 OF 46

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DESIGNED BY:  
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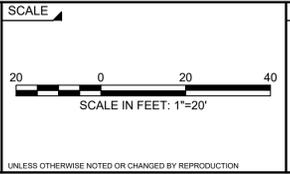
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TITLE

**SPRINGFIELD STREET AT STONY HILL ROAD  
INTERSECTION & SIDEWALK IMPROVEMENTS**

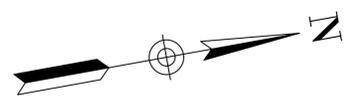
GENERAL PLAN

WILBRAHAM, MA

BETA JOB NO. 11463

ISSUE DATE 01/26/2025

SHEET NO. 10 OF 46



#695 STONY HILL RD  
N/F  
STEVEN J. TERZI  
TERESA ANN TERZI  
BOOK 11721 PAGE 91  
PARCEL ID: 4930

#687 STONY HILL RD  
N/F  
THOMAS X. KENNEDY, JR.  
NANCY G. KENNEDY  
BOOK 20709 PAGE 518  
PARCEL ID: 4926

#2 DEVONSHIRE DR  
N/F  
SCOTT A. WILLIAMS  
SHEILA E. WILLIAMS  
BOOK 10650 PAGE 55  
PLAN BOOK 59 PAGE 127  
LOT 1  
PARCEL ID: 1547

C.B.  
RIM=263.64  
INV. (A)=260.6  
INV. (B)=260.8  
INV. (C)=260.8

#670 STONY HILL RD  
N/F  
FERNANDO CRESPO  
HELENA CRESPO  
BOOK 16228 PAGE 245  
PL. BK. 318 PG. 39  
LOT 4-R  
PARCEL ID: 100307

#692 STONY HILL RD  
N/F  
MICHAEL M. GRADY  
ANNE M. GRADY  
BOOK 11711 PAGE 387  
PARCEL ID: 4927

#676 STONY HILL RD  
N/F  
KEVIN S. QUINN  
BOOK 20155 PAGE 223  
PARCEL ID: 4920

#696 STONY HILL RD  
N/F  
JOHN M. FITZGERALD IRR  
HOME TRUST  
BOOK 21993 PAGE 427  
PARCEL ID: 4931

#692 STONY HILL RD  
N/F  
JOEL A. GONYEA  
BRENDA A. GONYEA  
BOOK 5608 PAGE 474  
PARCEL ID: 4924

#680 STONY HILL RD  
N/F  
BROOKE WILLIAMS  
ALYSSA R. DARLING  
BOOK 24661 PAGE 365  
PARCEL ID: 4922

CONTINUED ON SHEET 10

1/28/2028 2:07 PM C:\114005\11463 - WILBRAHAM, MA - STONY RD INTERSECTION\DRAWING FILES\PLANS\BET11463 CONST.DWG (BETA STB BW.STB)

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:  
CM

DESIGNED BY:  
KL

CHECKED BY:  
DJ

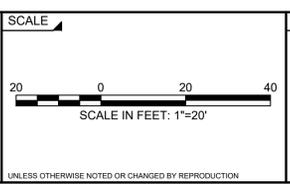
REGISTERED PROFESSIONAL

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SUBCONSULTANT



TITLE

**SPRINGFIELD STREET AT STONY HILL ROAD  
INTERSECTION & SIDEWALK IMPROVEMENTS**

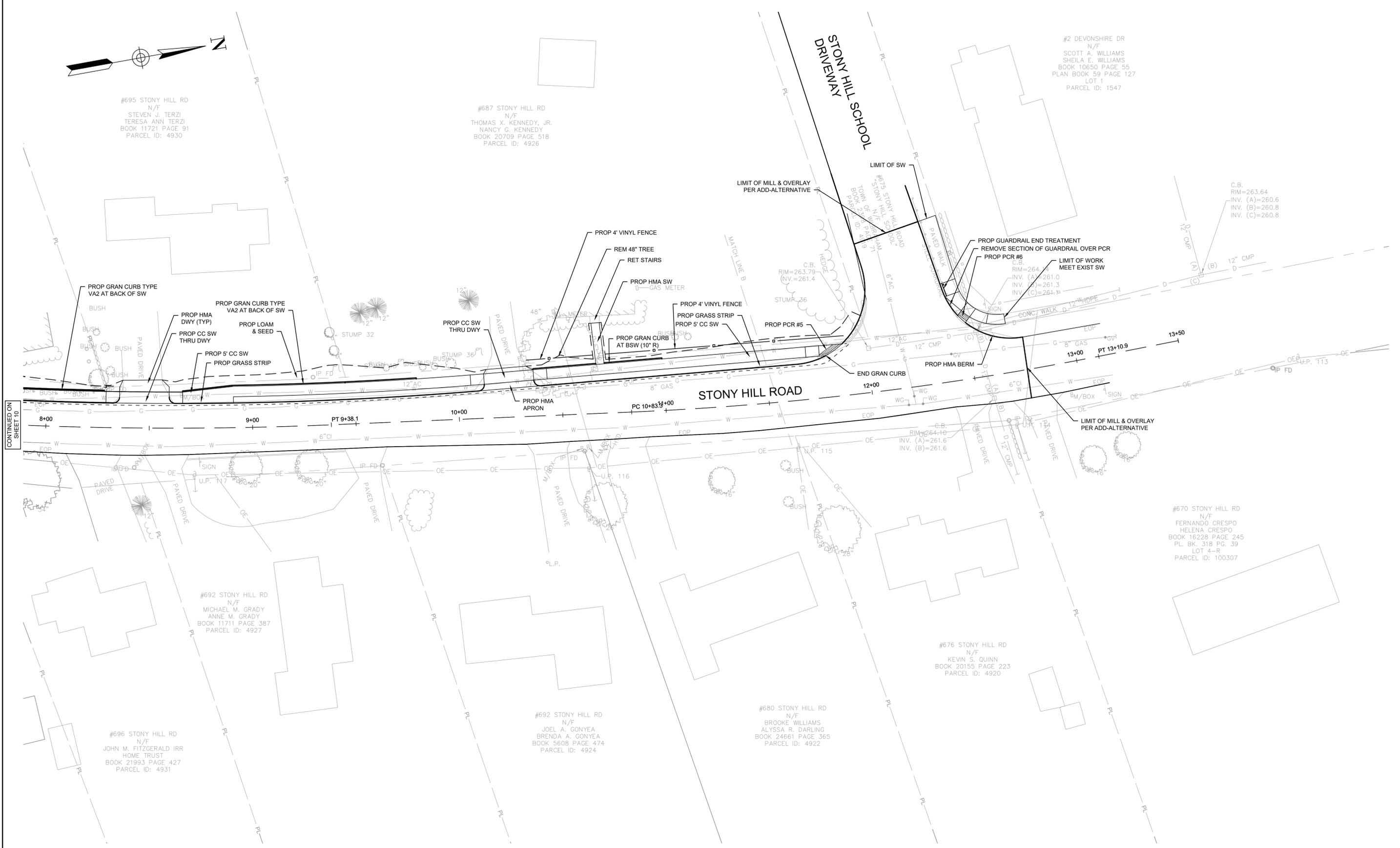
GENERAL PLAN

WILBRAHAM, MA

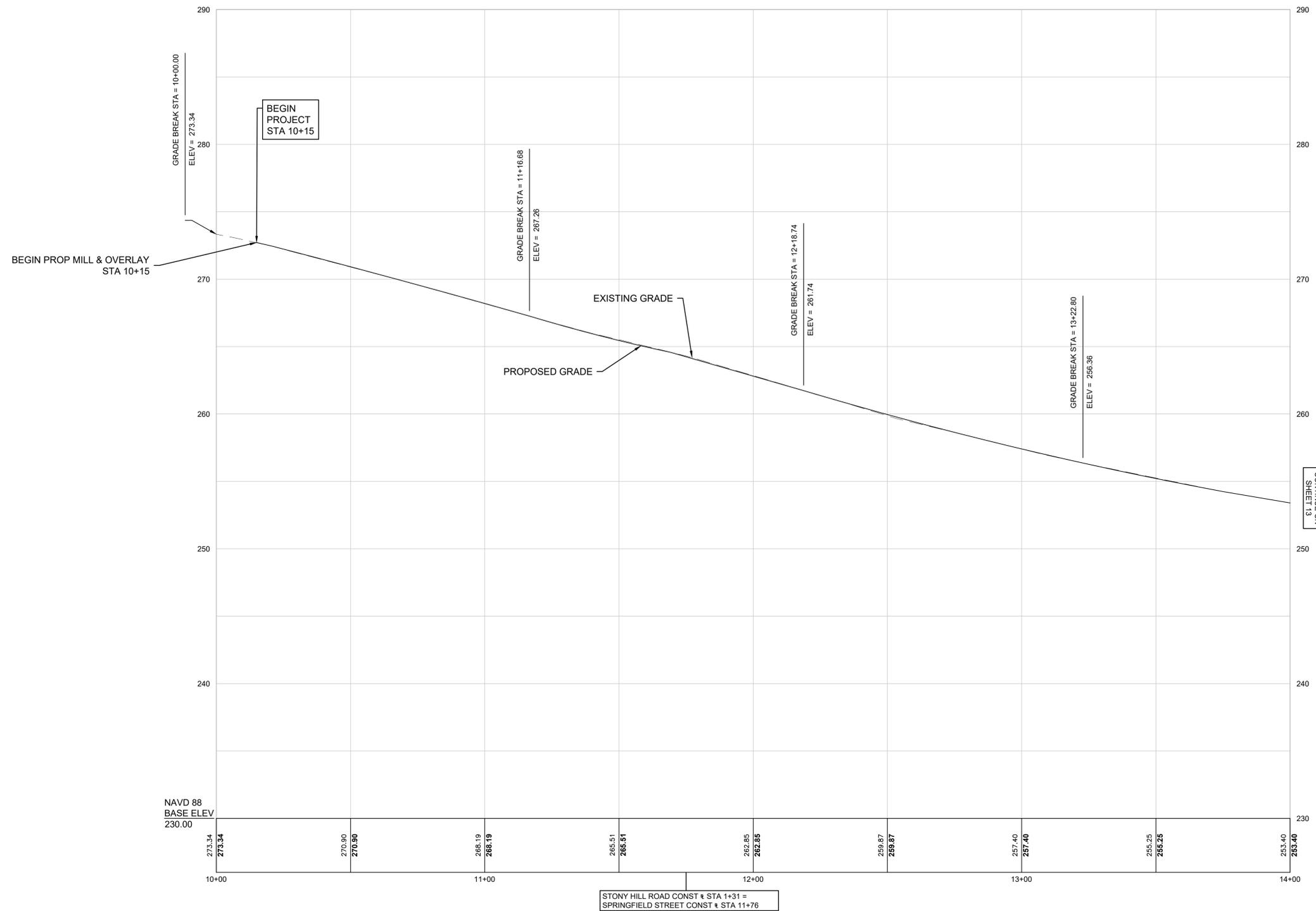
BETA JOB NO. 11463

ISSUE DATE 01/26/2025

SHEET NO. 11 OF 46



**SPRINGFIELD STREET  
STA 10+00 TO STA 14+00.00**



1/28/2028 2:08 PM BETA GROUP, INC. TEMPLATE (BETA\_STANDARD\_TEMP.ACTE - 1.0.2024) CIVIL 3D (CIVIL\_3D\_2024) PLOTSTYLE (BETA\_STB.BW.STB) USER(CFERREIRA) CH11400ST11463 - WILBRAHAM, MA - STONY RD INTERSECTION DRAWING FILES\PLANSET\11463\_PROFILE.DWG (BETA\_STB.BW.STB)

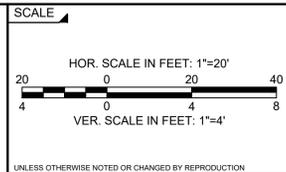
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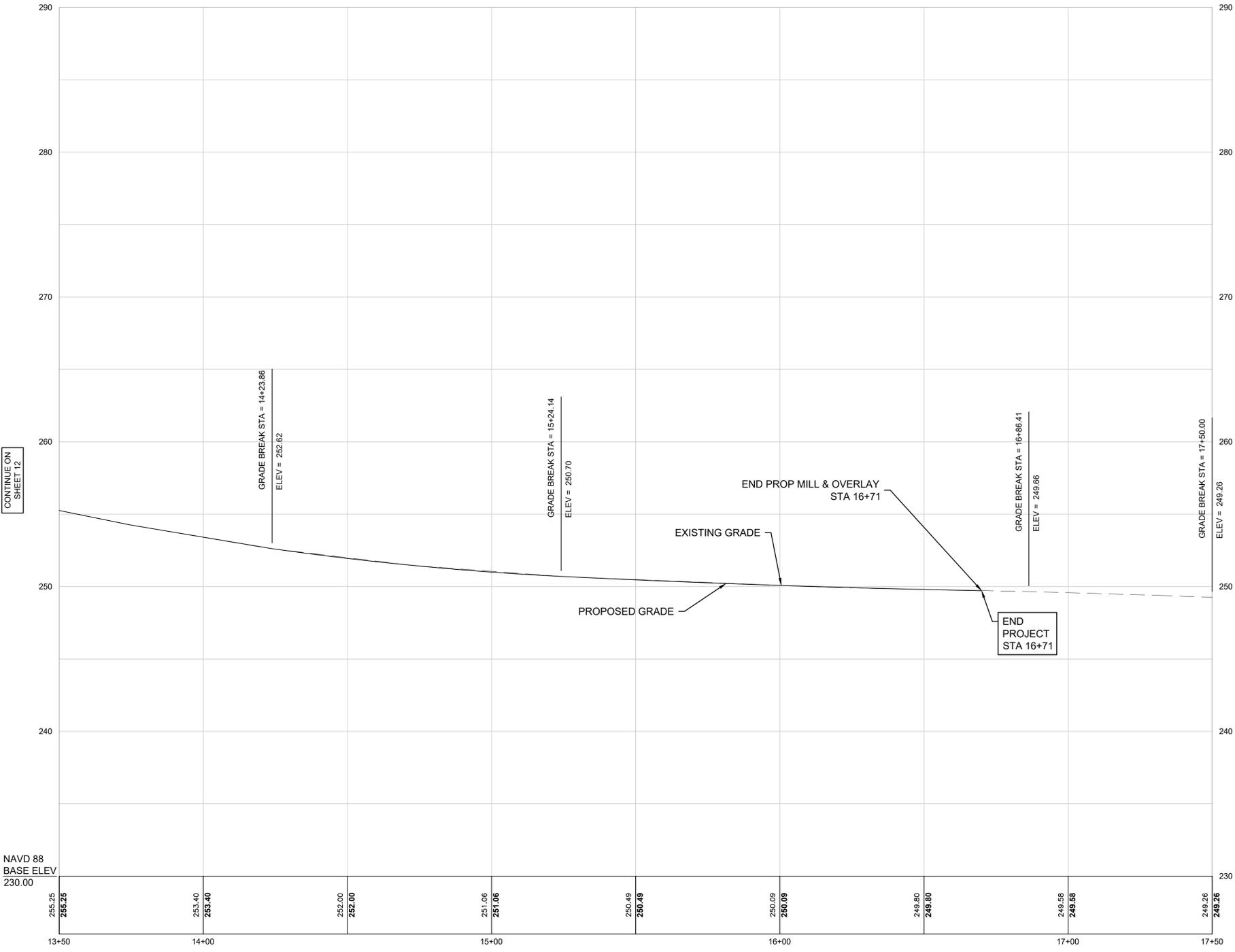


TITLE  
**SPRINGFIELD STREET AT STONY HILL ROAD  
INTERSECTION & SIDEWALK IMPROVEMENTS**  
PROFILE - SPRINGFIELD STREET  
WILBRAHAM, MA

BETA JOB NO. 11463  
ISSUE DATE 01/26/2025  
SHEET NO. 12 OF 46

CONTINUE ON  
SHEET 13

**SPRINGFIELD STREET  
STA 13+50 TO STA 17+50.00**



NAVD 88  
BASE ELEV  
230.00

CONTINUE ON  
SHEET 12

END  
PROJECT  
STA 16+71

END PROP MILL & OVERLAY  
STA 16+71

EXISTING GRADE

PROPOSED GRADE

1/28/2028 2:07 PM BETA GROUP INC. TEMPLATE (BETA\_STANDARD\_TEMPLATE - 1.0.2024) CIVIL\_3D (CIVIL\_3D 2024) PLOTSTYLE (BETA\_STB.BW.STB) USER(CFERREIRA) C:\1140511463 - WILBRAHAM, MA - STONY RD INTERSECTION\DRAWING FILES\PLANSET\11463 PROFILE.DWG (BETA\_STB.BW.STB)

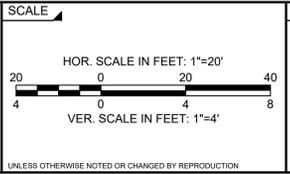
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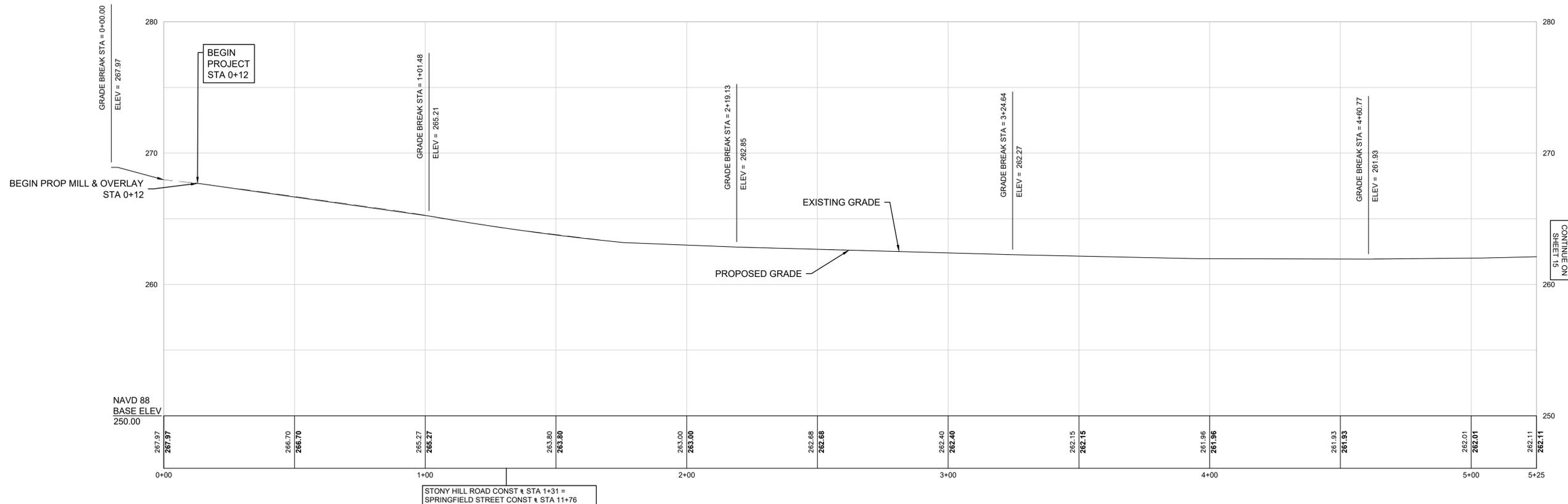


TITLE  
**SPRINGFIELD STREET AT STONY HILL ROAD  
INTERSECTION & SIDEWALK IMPROVEMENTS**  
PROFILE -SPRINGFIELD STREET  
WILBRAHAM, MA

BETA JOB NO. 11463  
ISSUE DATE 01/26/2025  
SHEET NO. 13 OF 46

1/28/2028 2:08 PM BETA GROUP, INC. TEMPLATE (BETA\_STANDARD\_TEMPLATE - 1.0.2024) CIVIL\_3D (CIVIL\_3D 2024) PLOTSTYLE (BETA\_STB.BW.STB) USER(CFERREIRA)

**STONY HILL ROAD**  
**STA 0+00 TO STA 5+25.00**



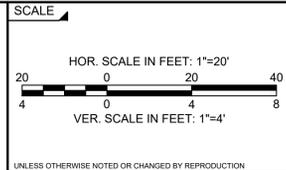
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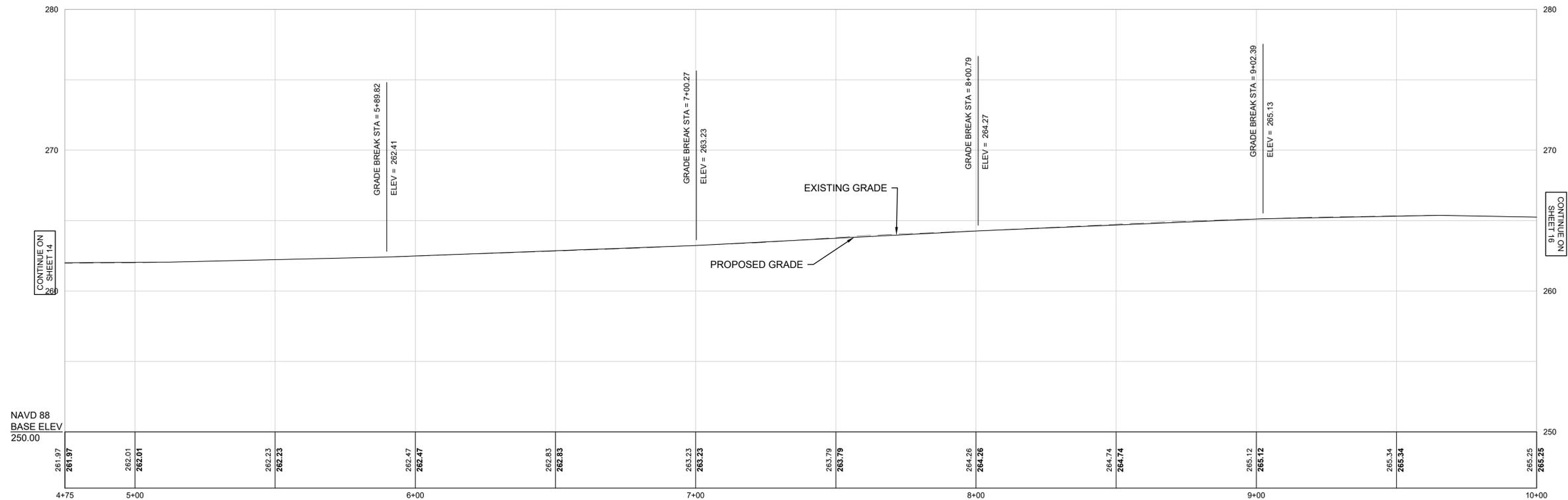


**TITLE**  
**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 PROFILE - STONY HILL ROAD  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 14 OF 46

1/28/2028 2:08 PM BETA GROUP, INC. TEMPLATE (BETA\_STANDARD\_TEMPLATE - 1.0.2024) CIVIL\_3D (CIVIL\_3D 2024) PLOTSTYLE (BETA\_STB.BW(STB)) USER(CFERREIRA)

### STONY HILL ROAD STA 4+75 TO STA 10+00.00



CONTINUE ON SHEET 14

CONTINUE ON SHEET 16

NAVD 88  
BASE ELEV  
250.00

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

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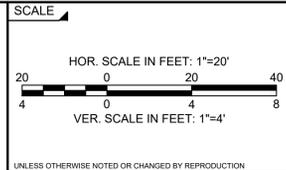
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TITLE

**SPRINGFIELD STREET AT STONY HILL ROAD  
INTERSECTION & SIDEWALK IMPROVEMENTS**

PROFILE - STONY HILL ROAD

WILBRAHAM, MA

BETA JOB NO. 11463

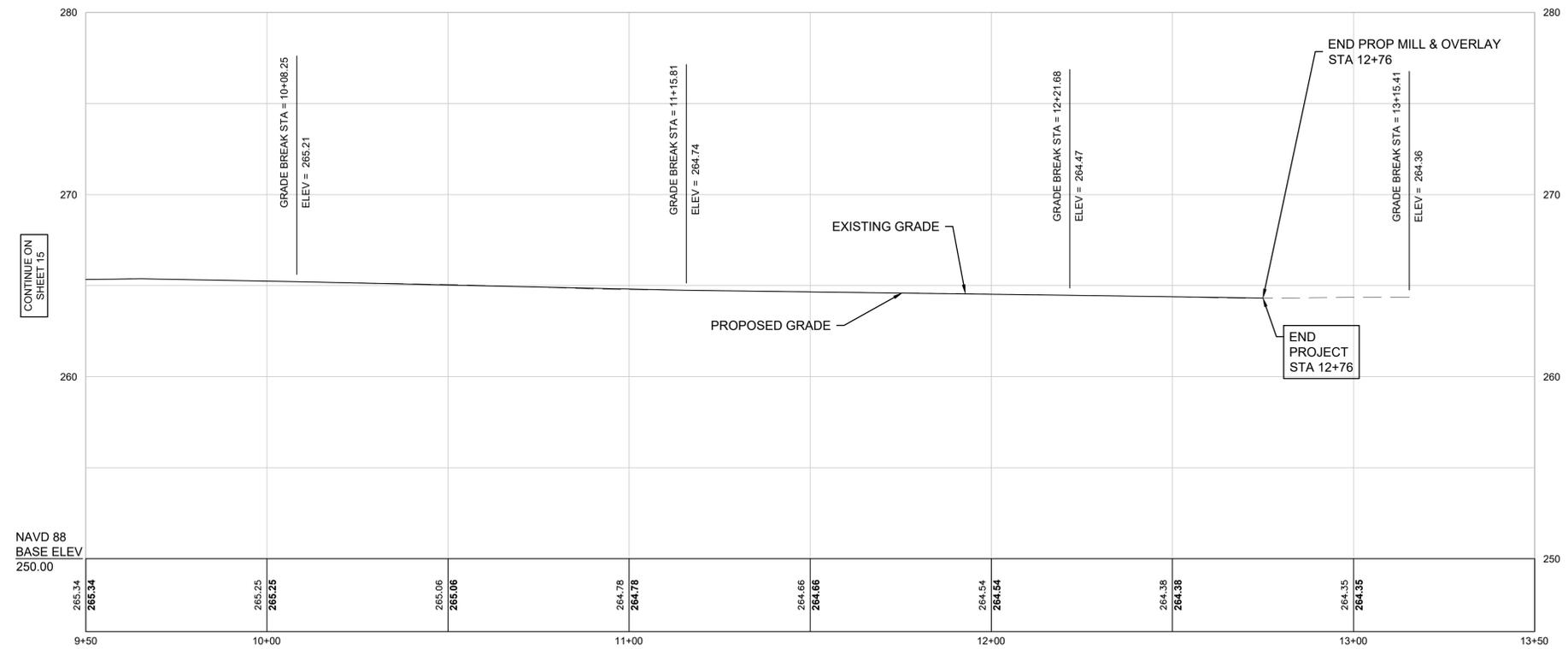
ISSUE DATE 01/26/2025

SHEET NO. 15 OF 46

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

BETA GROUP, INC. TEMPLATE (BETA\_STANDARD\_TEMPLATE - 1.0.2024) CIVIL\_3D (CIVIL\_3D 2024) PLOTSTYLE (BETA\_STB.BW(STB) USER(CFERREIRA)  
 01/14/2025 11:46:33 AM - WILBRAHAM, MA - STONY RD INTERSECTION DRAWING FILES\PLANS\BET11463\PROFILES\DWG (BETA STB.BW(STB))

STONY HILL ROAD  
 STA 9+50 TO STA 13+50.00



NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

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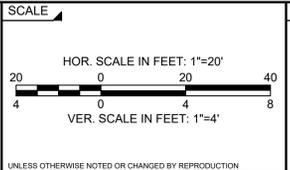
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DJ

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TITLE

**SPRINGFIELD STREET AT STONY HILL ROAD  
 INTERSECTION & SIDEWALK IMPROVEMENTS**

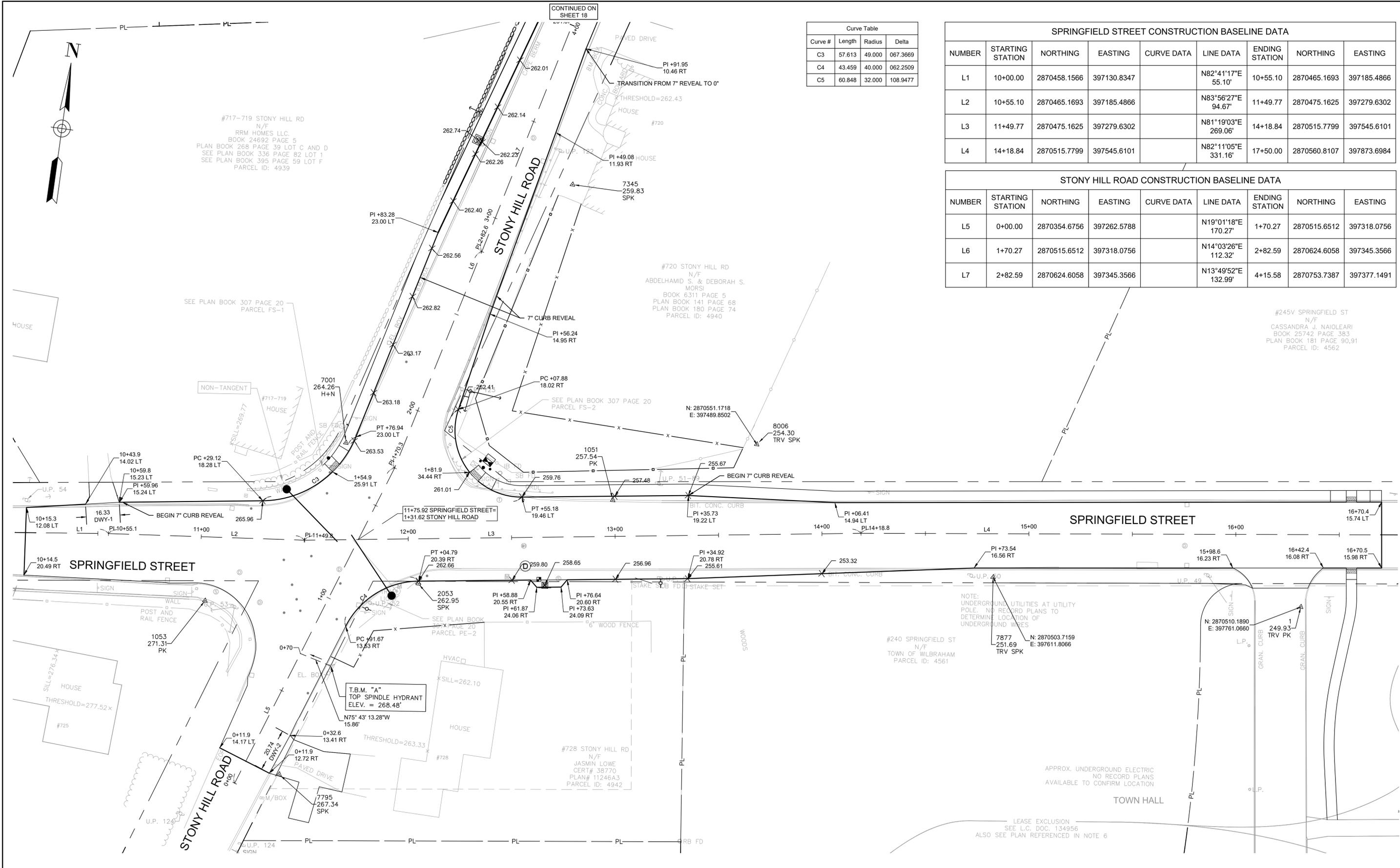
PROFILE - STONY HILL ROAD

WILBRAHAM, MA

BETA JOB NO. 11463

ISSUE DATE 01/26/2025

SHEET NO. 16 OF 46



Curve Table			
Curve #	Length	Radius	Delta
C3	57.613	49.000	067.3669
C4	43.459	40.000	062.2509
C5	60.848	32.000	108.9477

SPRINGFIELD STREET CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	10+00.00	2870458.1566	397130.8347		N82°41'17"E 55.10'	10+55.10	2870465.1693	397185.4866
L2	10+55.10	2870465.1693	397185.4866		N83°56'27"E 94.67'	11+49.77	2870475.1625	397279.6302
L3	11+49.77	2870475.1625	397279.6302		N81°19'03"E 269.06'	14+18.84	2870515.7799	397545.6101
L4	14+18.84	2870515.7799	397545.6101		N82°11'05"E 331.16'	17+50.00	2870560.8107	397873.6984

STONY HILL ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L5	0+00.00	2870354.6756	397262.5788		N19°01'18"E 170.27'	1+70.27	2870515.6512	397318.0756
L6	1+70.27	2870515.6512	397318.0756		N14°03'26"E 112.32'	2+82.59	2870624.6058	397345.3566
L7	2+82.59	2870624.6058	397345.3566		N13°49'52"E 132.99'	4+15.58	2870753.7387	397377.1491

1/28/2025 2:08 PM C:\114005\11463 - WILBRAHAM, MA - STONY RD INTERSECTION\DRAWING FILES\PLANS\11463 CURB TIE AND GRADING.DWG (BETA STB.BV.STB)

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

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SCALE



SCALE IN FEET: 1"=20'

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TITLE

**SPRINGFIELD STREET AT STONY HILL ROAD INTERSECTION & SIDEWALK IMPROVEMENTS**

CURB TIE & GRADING PLAN

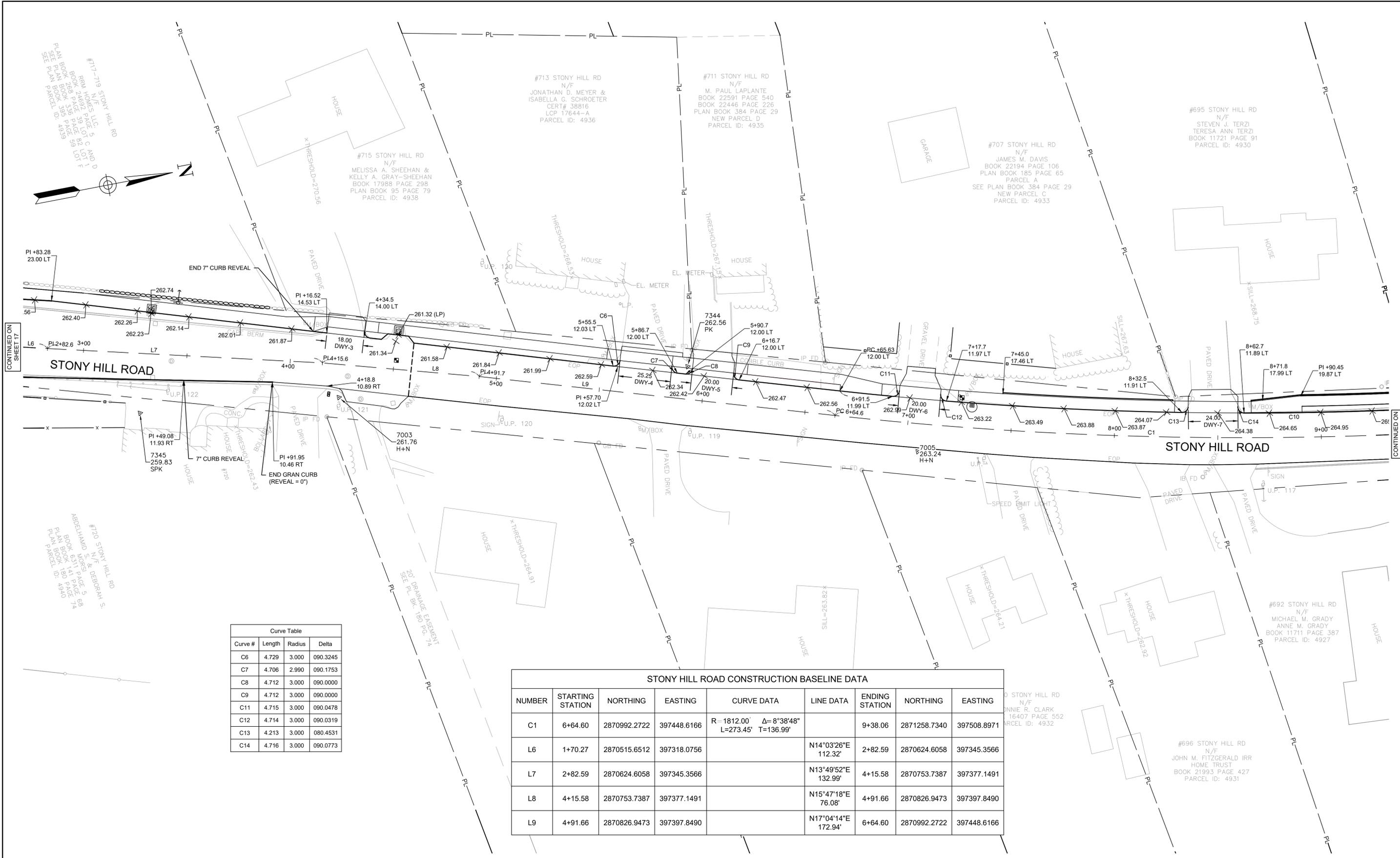
WILBRAHAM, MA

BETA JOB NO. 11463

ISSUE DATE 01/26/2025

SHEET NO. 17 OF 46

1/28/2026 2:08 PM O:\114005\11463 - WILBRAHAM, MA - STONY RD INTERSECTION\DRAWING FILES\PLANSET\11463 CURB TIE AND GRADING.DWG (BETA STB.BW.STB)



STONY HILL ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C1	6+64.60	2870992.2722	397448.6166	R=1812.00' L=273.45' Δ=8°38'48" T=136.99'		9+38.06	2871258.7340	397508.8971
L6	1+70.27	2870515.6512	397318.0756		N14°03'26"E 112.32'	2+82.59	2870624.6058	397345.3566
L7	2+82.59	2870624.6058	397345.3566		N13°49'52"E 132.99'	4+15.58	2870753.7387	397377.1491
L8	4+15.58	2870753.7387	397377.1491		N15°47'18"E 76.08'	4+91.66	2870826.9473	397397.8490
L9	4+91.66	2870826.9473	397397.8490		N17°04'14"E 172.94'	6+64.60	2870992.2722	397448.6166

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

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SCALE



SCALE IN FEET: 1"=20'

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TITLE

**SPRINGFIELD STREET AT STONY HILL ROAD  
INTERSECTION & SIDEWALK IMPROVEMENTS**

CURB TIE & GRADING PLAN

WILBRAHAM, MA

BETA JOB NO. 11463

ISSUE DATE 01/26/2025

SHEET NO. 18 OF 46



#695 STONY HILL RD  
N/F  
STEVEN J. TERZI  
TERESA ANN TERZI  
BOOK 11721 PAGE 91  
PARCEL ID: 4930

#687 STONY HILL RD  
N/F  
THOMAS X. KENNEDY, JR.  
NANCY G. KENNEDY  
BOOK 20709 PAGE 518  
PARCEL ID: 4926

#2 DEVONSHIRE DR  
N/F  
SCOTT A. WILLIAMS  
SHEILA E. WILLIAMS  
BOOK 10650 PAGE 55  
PLAN BOOK 59 PAGE 127  
LOT 1  
PARCEL ID: 1547

7011  
263.83  
PK FD

7009  
264.00  
PK

#670 STONY HILL RD  
N/F  
FERNANDO CRESPO  
HELENA CRESPO  
BOOK 16228 PAGE 245  
PL. BK. 318 PG. 39  
LOT 4-R  
PARCEL ID: 100307

#692 STONY HILL RD  
N/F  
MICHAEL M. GRADY  
ANNE M. GRADY  
BOOK 11711 PAGE 387  
PARCEL ID: 4927

#676 STONY HILL RD  
N/F  
KEVIN S. QUINN  
BOOK 20155 PAGE 223  
PARCEL ID: 4920

#692 STONY HILL RD  
N/F  
JOEL A. GONYEA  
BRENDA A. GONYEA  
BOOK 5608 PAGE 47  
PARCEL ID: 4924

#696 STONY HILL RD  
N/F  
JOHN M. FITZGERALD IRR  
HOME TRUST  
BOOK 21993 PAGE 427  
PARCEL ID: 4931

T.B.M. "B"  
TOP SPINDLE HYDRANT  
ELEV. = 267.25'

CONTINUED ON  
SHEET 18

STONY HILL ROAD

STONY HILL ROAD CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C1	6+64.60	2870992.2722	397448.6166	R=1812.00' Δ=8°38'48" L=273.45' T=136.99'		9+38.06	2871258.7340	397508.8971
C2	10+83.30	2871402.4111	397530.1746	R=1500.00' Δ=8°41'31" L=227.55' T=114.00'		13+10.86	2871629.1721	397546.3410
L10	9+38.06	2871258.7340	397508.8971		N8°25'26"E 145.24'	10+83.30	2871402.4111	397530.1746
L11	13+10.86	2871629.1721	397546.3410		N0°16'05"W 39.14'	13+50.00	2871668.3148	397546.1579

Curve #	Length	Radius	Delta
C10	342.454	1800.000	010.9006
C13	4.213	3.000	080.4531
C14	4.716	3.000	090.0773
C15	4.717	3.000	090.0953
C16	4.712	3.000	090.0000
C17	20.576	25.000	047.1564
C18	18.190	20.000	052.1092
C19	14.832	30.000	028.3267

1/28/2028 2:08 PM C:\114005\11483 - WILBRAHAM, MA - STONY RD INTERSECTION\DRAWING FILES\PLANS\11483 CURB TIE AND GRADING.DWG (BETA STB.BW.STB)

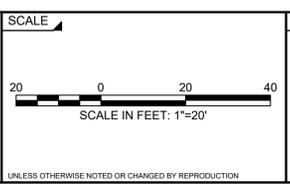
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DESIGNED BY:  
KL  
CHECKED BY:  
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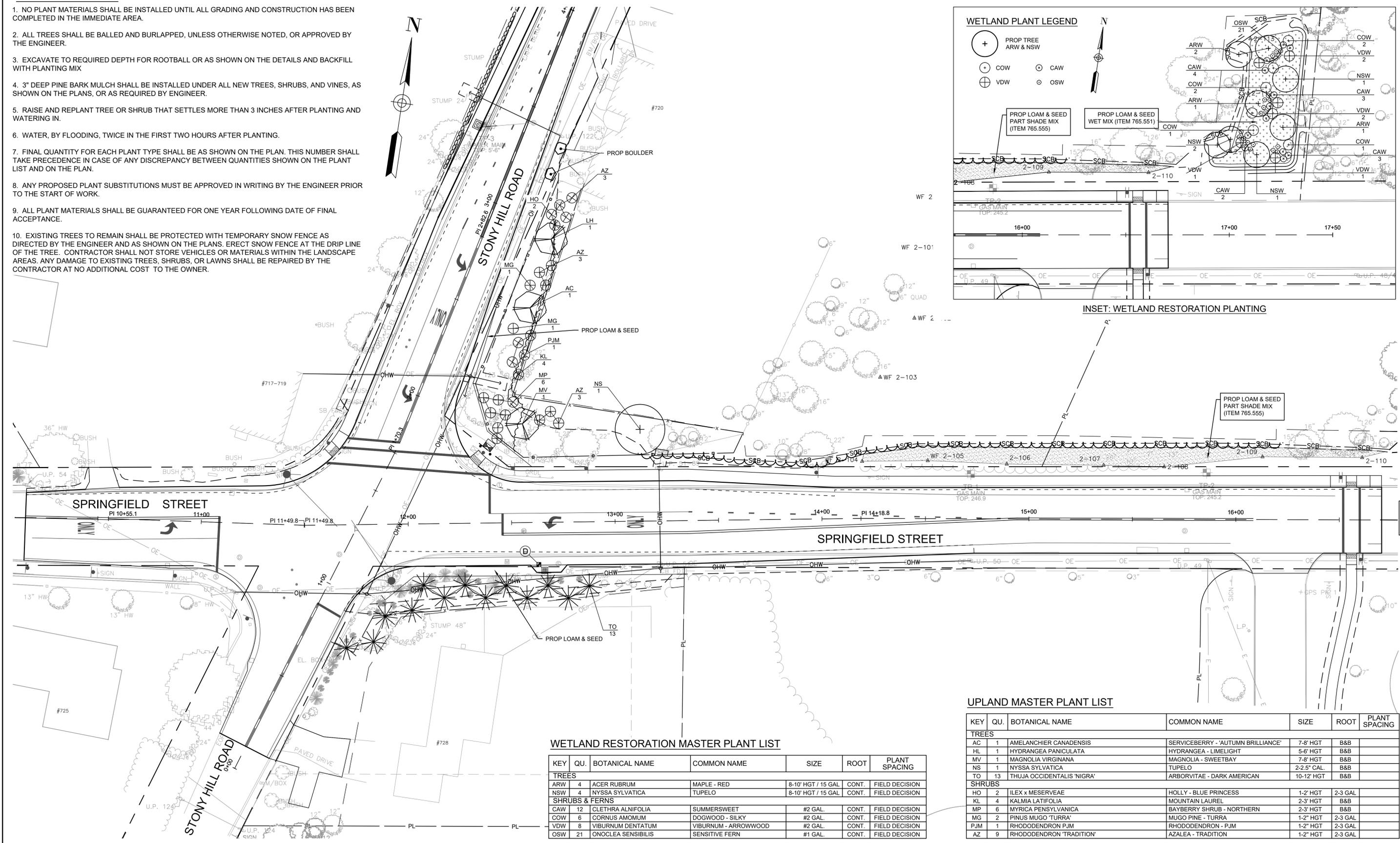
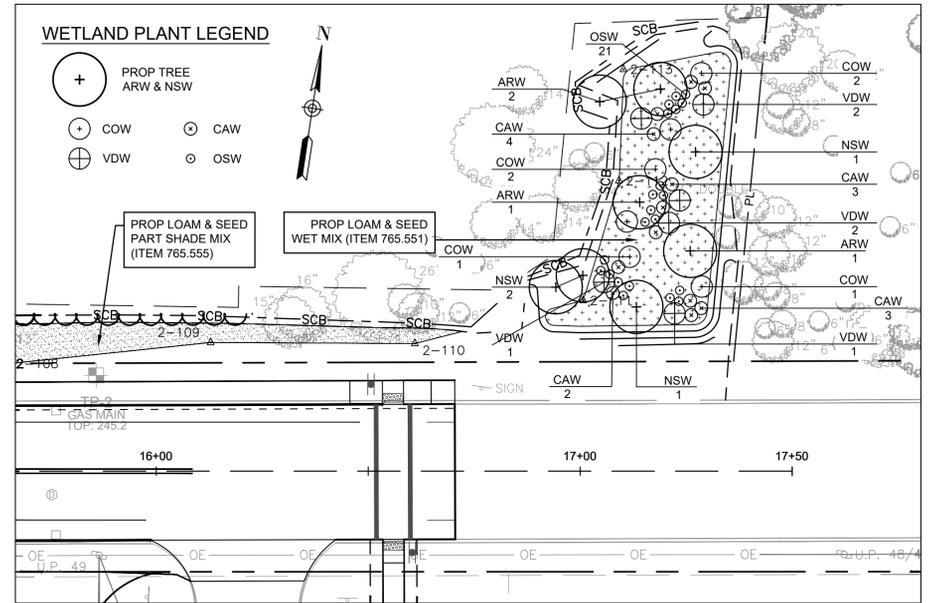


TITLE  
**SPRINGFIELD STREET AT STONY HILL ROAD  
INTERSECTION & SIDEWALK IMPROVEMENTS**  
CURB TIE & GRADING PLAN  
WILBRAHAM, MA

BETA JOB NO. 11463  
ISSUE DATE 01/26/2025  
SHEET NO. 19 OF 46

**LANDSCAPE NOTES:**

1. NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
2. ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED, OR APPROVED BY THE ENGINEER.
3. EXCAVATE TO REQUIRED DEPTH FOR ROOTBALL OR AS SHOWN ON THE DETAILS AND BACKFILL WITH PLANTING MIX
4. 3" DEEP PINE BARK MULCH SHALL BE INSTALLED UNDER ALL NEW TREES, SHRUBS, AND VINES, AS SHOWN ON THE PLANS, OR AS REQUIRED BY ENGINEER.
5. RAISE AND REPLANT TREE OR SHRUB THAT SETTLES MORE THAN 3 INCHES AFTER PLANTING AND WATERING IN.
6. WATER, BY FLOODING, TWICE IN THE FIRST TWO HOURS AFTER PLANTING.
7. FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN.
8. ANY PROPOSED PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO THE START OF WORK.
9. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
10. EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY SNOW FENCE AS DIRECTED BY THE ENGINEER AND AS SHOWN ON THE PLANS. ERECT SNOW FENCE AT THE DRIP LINE OF THE TREE. CONTRACTOR SHALL NOT STORE VEHICLES OR MATERIALS WITHIN THE LANDSCAPE AREAS. ANY DAMAGE TO EXISTING TREES, SHRUBS, OR LAWNS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.



**WETLAND RESTORATION MASTER PLANT LIST**

KEY	QU.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	PLANT SPACING
<b>TREES</b>						
ARW	4	ACER RUBRUM	MAPLE - RED	8-10' HGT / 15 GAL	CONT.	FIELD DECISION
NSW	4	NYSSA SYLVATICA	TUPELO	8-10' HGT / 15 GAL	CONT.	FIELD DECISION
<b>SHRUBS &amp; FERNS</b>						
CAW	12	CLETHRA ALNIFOLIA	SUMMERSWEET	#2 GAL.	CONT.	FIELD DECISION
COW	6	CORNUS AMOMUM	DOGWOOD - SILKY	#2 GAL.	CONT.	FIELD DECISION
VDW	8	VIBURNUM DENTATUM	VIBURNUM - ARROWWOOD	#2 GAL.	CONT.	FIELD DECISION
OSW	21	ONOCLEA SENSIBILIS	SENSITIVE FERN	#1 GAL.	CONT.	FIELD DECISION

**UPLAND MASTER PLANT LIST**

KEY	QU.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	PLANT SPACING
<b>TREES</b>						
AC	1	AMELANCHIER CANADENSIS	SERVICEBERRY - 'AUTUMN BRILLIANCE'	7-8' HGT	B&B	
HL	1	HYDRANGEA PANICULATA	HYDRANGEA - LIMELIGHT	5-6' HGT	B&B	
MV	1	MAGNOLIA VIRGINIANA	MAGNOLIA - SWEETBAY	7-8' HGT	B&B	
NS	1	NYSSA SYLVATICA	TUPELO	2-2.5' CAL.	B&B	
TO	13	THUJA OCCIDENTALIS 'NIGRA'	ARBORVITAE - DARK AMERICAN	10-12' HGT	B&B	
<b>SHRUBS</b>						
HO	2	ILEX x MESERVEAE	HOLLY - BLUE PRINCESS	1-2' HGT	2-3 GAL	
KL	4	KALMIA LATIFOLIA	MOUNTAIN LAUREL	2-3' HGT	B&B	
MP	6	MYRICA PENNSYLVANICA	BAYBERRY SHRUB - NORTHERN	2-3' HGT	B&B	
MG	2	PINUS MUGO 'TURRA'	MUGO PINE - TURRA	1-2" HGT	2-3 GAL	
PJM	1	RHODODENDRON PJM	RHODODENDRON - PJM	1-2" HGT	2-3 GAL	
AZ	9	RHODODENDRON 'TRADITION'	AZALEA - TRADITION	1-2" HGT	2-3 GAL	

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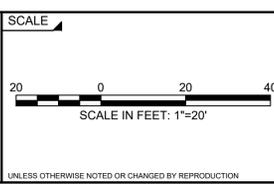
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DESIGNED BY:  
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CHECKED BY:  
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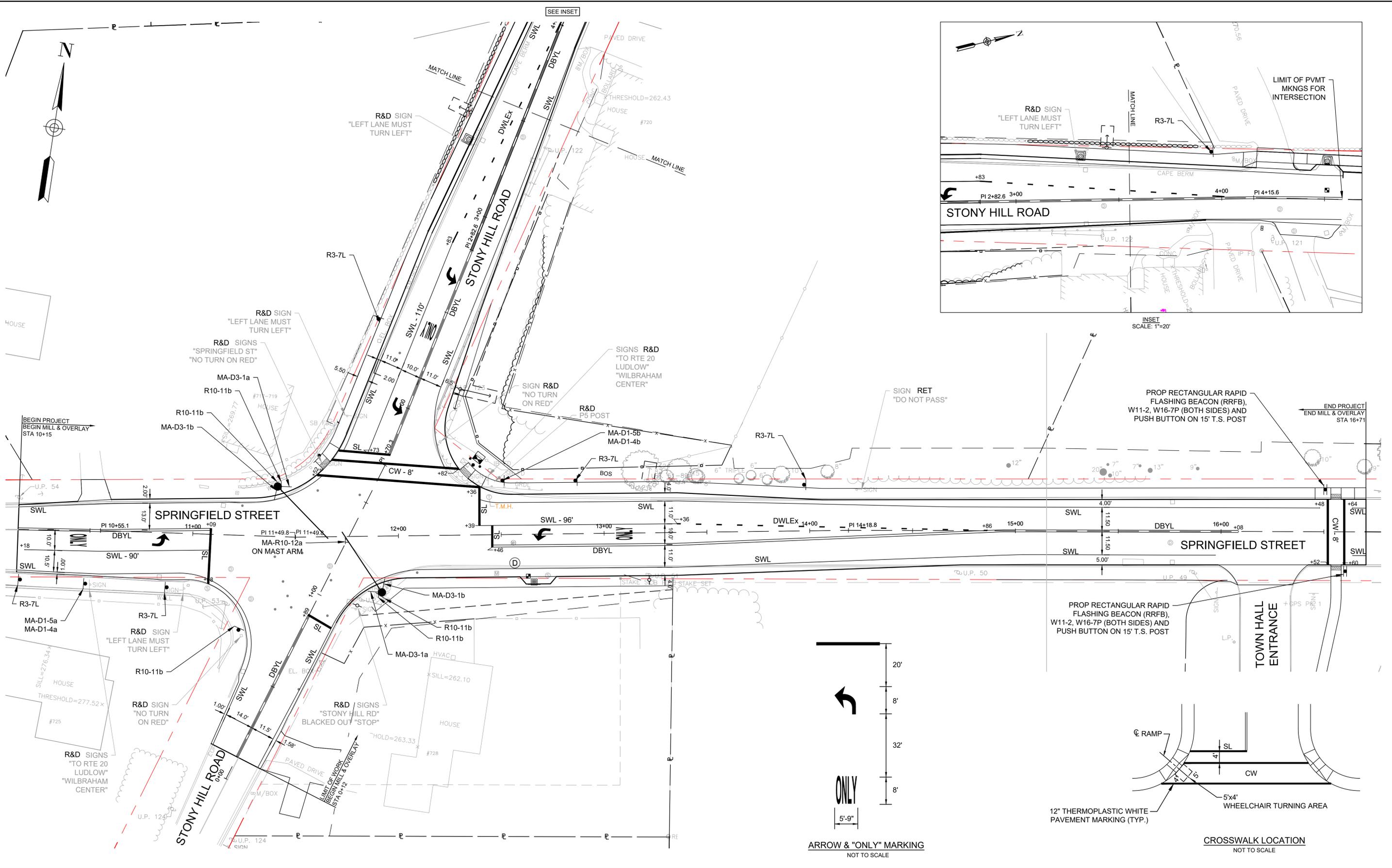


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TITLE  
**SPRINGFIELD STREET AT STONY HILL ROAD INTERSECTION & SIDEWALK IMPROVEMENTS**  
LANDSCAPE PLAN  
WILBRAHAM, MA

BETA JOB NO. 11463  
ISSUE DATE 01/26/2025  
SHEET NO. 20 OF 46



1/28/2025 2:07 PM C:\114005\11463 - WILBRAHAM, MA - STONY RD INTERSECTION\DRAWING FILES\PLANS\11463 SIGN AND PAVT MKNG.DWG (BETA SITE BY STB)

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:  
AR

DESIGNED BY:  
IA

CHECKED BY:  
DF

REGISTERED PROFESSIONAL

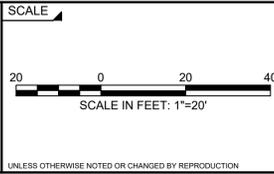
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TITLE

**SPRINGFIELD STREET AT STONY HILL ROAD INTERSECTION & SIDEWALK IMPROVEMENTS**

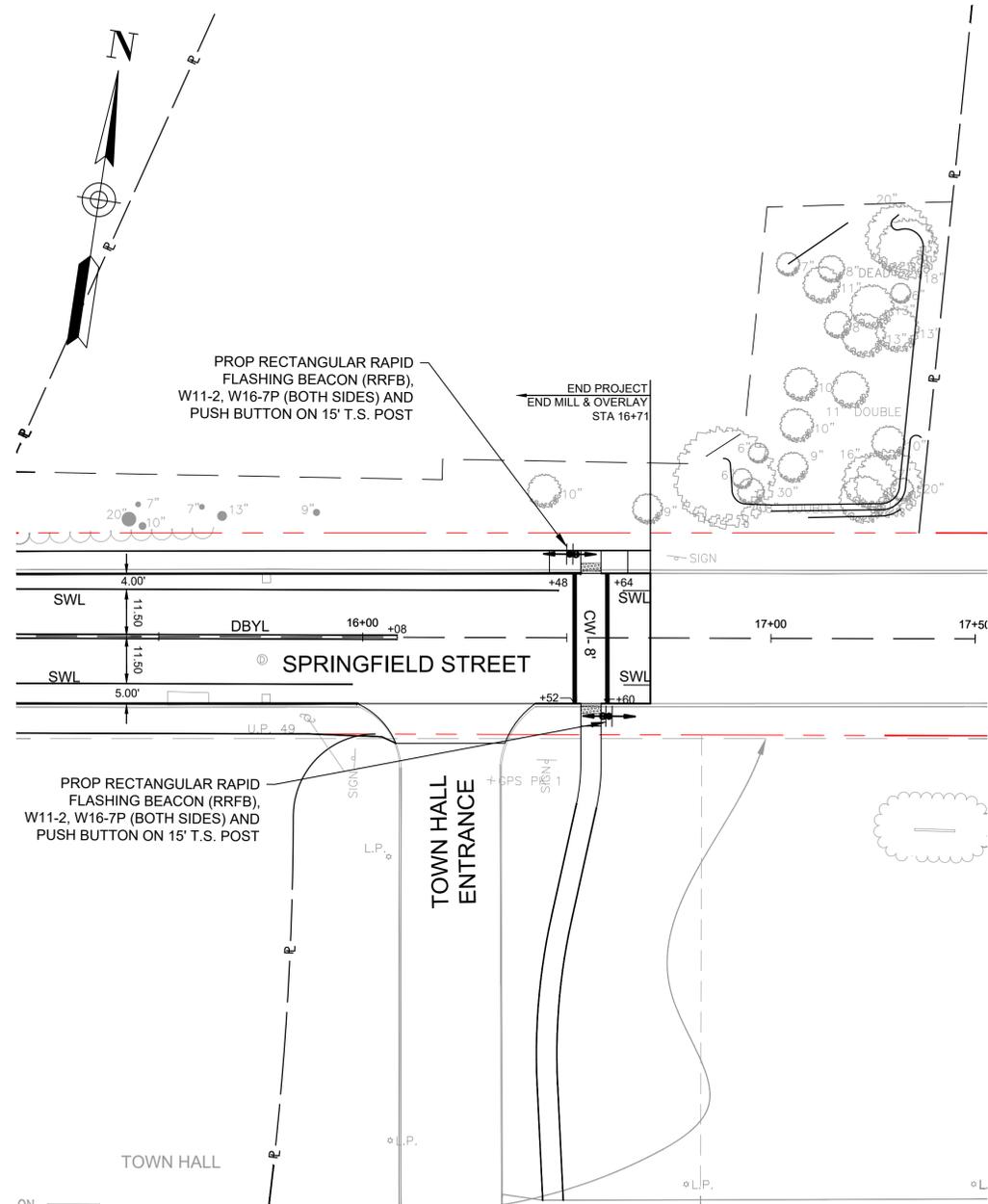
**SIGN & PAVEMENT MARKING PLAN**

WILBRAHAM, MA

BETA JOB NO. 11463

ISSUE DATE 01/26/2025

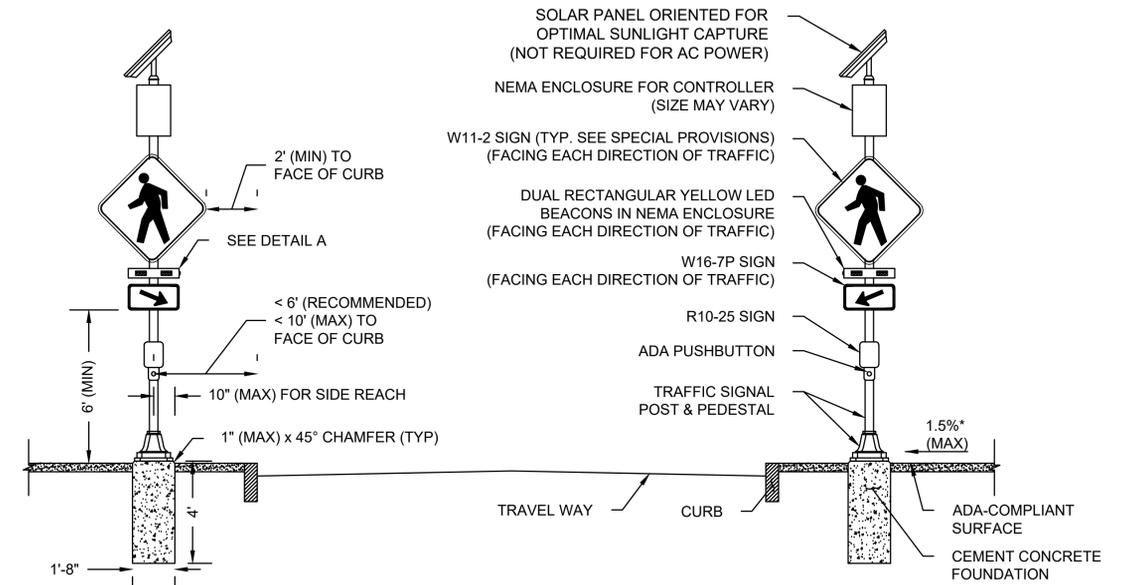
SHEET NO. 21 OF 46



PROPOSED BEACON LAYOUT - LOCATION 1

NOTES:

1. ACCESS TO ALL PEDESTRIAN ACTUATED CONTROLS SHALL BE ADA/AAB COMPLIANT.
2. \*0.5% CONSTRUCTION TOLERANCE FOR CROSS-SLOPE.

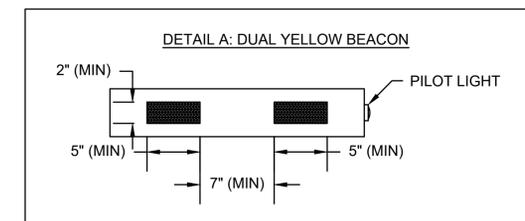


RRFB DETAIL - LOCATION 1 (SPRINGFIELD ST STA 16+56)  
NOT TO SCALE

MAJOR ITEMS - RRFB LOCATION 1 - SPRINGFIELD ST (STA. 16+56)		
ITEM NO.	QUANTITY	DESCRIPTION
824.221	2	NEMA ENCLOSURES FOR ALL COMPONENTS NEEDED TO MEET FUNCTIONAL REQUIREMENTS PER SPECIAL PROVISIONS
	2	TRAFFIC SIGNAL POST AND BASE STANDARD WITH FOUNDATION - 15' STEEL
	4	DUAL RECTANGULAR YELLOW LED BEACONS IN NEMA ENCLOSURES
	2	ADA PUSHBUTTON SYSTEMS
	2	R10-25 SIGNS (9" x 12")
	4	W11-2 SIGNS (30" x 30")
	2	W16-7pL SIGNS (24" x 12")
	2	W16-7pR SIGNS (24" x 12")
	2	SOLAR PANEL SYSTEMS
	2	BATTERY SYSTEMS
PLUS ALL MOUNTING AND SUPPORTING HARDWARE AND WIRING NECESSARY TO COMPLETE A WORKING SYSTEM.		

RRFB TIMING AND OPERATIONS TABLE

LOCATION	FLASHING CYCLE TIME
LOCATION 1 - SPRINGFIELD ST (STA. 16+56)	10 SECONDS



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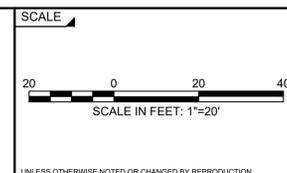
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TITLE  
**SPRINGFIELD STREET AT STONY HILL ROAD INTERSECTION & SIDEWALK IMPROVEMENTS**  
RECTANGULAR RAPID FLASHING BEACON PLAN  
WILBRAHAM, MA

BETA JOB NO. 11463  
ISSUE DATE 01/26/2025  
SHEET NO. 22 OF 46

# TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	DIMENSIONS (in)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK-GROUND	LEGEND	BORDER			
MA-D1-4a	54 in	30 in		6C	12.0 12.0	ARROW 18X8.1 @90°	1	GREEN	WHITE	WHITE	MOUNT W/ MA-D1-5a	11.25	11.25
MA-D1-4b	54 in	30 in		6C 6C	6.0 6.0 6.0 6.0	ARROW 18X8.1 @90°	1	GREEN	WHITE	WHITE	MOUNT W/ MA-D1-5b	11.25	11.25
MA-D1-5a	54 in	54 in		6C 8C 8C	6.0 4.0 4.0 5.9	M1-4 (20) 24X24 ARROW 18X8.1 @180°	1	GREEN	WHITE	WHITE	5 INCH TUBULAR POST	20.25	20.25
MA-D1-5b	54 in	54 in		6C 8C 8C	6.0 4.0 4.0 5.9	M1-4 (20) 24X24 ARROW 18X8.1 @0°	1	GREEN	WHITE	WHITE	5 INCH TUBULAR POST	20.25	20.25
MA-D3-1a (OH)	81 in	18 in		8D,5.33D	5.0 5.0		2	GREEN	WHITE	WHITE	MOUNT 1 ON MA 1 (35') 1 ON MA 2 (35')	10.125	20.25
MA-D3-1b (OH)	81 in	18 in		8D,5.33D	5.0 5.0		2	GREEN	WHITE	WHITE	MOUNT 1 ON MA 1 (35') 1 ON MA 2 (35')	10.125	20.25
R3-7L	30 in	30 in		SEE 2023 MUTCD STANDARDS			7	WHITE	BLACK	BLACK	P-5 7	6.25	43.75
R10-11b	30 in	30 in					4	WHITE	BLACK	BLACK	MOUNT 2 ON MA 1 (35') 1 ON MA 2 (35') 1 ON P-5	6.25	43.75
MA-R10-12a	30 in	36 in					1	WHITE	BLACK	BLACK	MOUNT 1 ON MA 1 (35')	7.5	7.5
R10-25	9 in	12 in					2	WHITE	BLACK	BLACK	MOUNT 2 ON RRFB 2 W/ W11-2	0.75	1.5
W11-2	30 in	30 in					4	FYG	BLACK	BLACK	MOUNT 4 ON RRFB 2 ON P-5	6.25	25.0
W16-7PL	24 in	12 in					2	FYG	BLACK	BLACK	MOUNT 2 ON RRFB 2 W/ W11-2	2.0	4.0
W16-7PR	24 in	12 in					2	FYG	BLACK	BLACK	MOUNT 2 ON RRFB 2 W/ W11-2	2.0	4.0

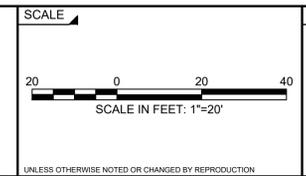
**NOTES:**

1. HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING CONFORMING TO SECTION M9.30.0, TYPE III OR IV, OF THE MASSDOT STANDARD SPECIFICATIONS SHALL BE USED FOR ALL SIGNS.
2. ALL P-5 POSTS SHALL BE TELESCOPIC, RECTANGULAR TYPE POSTS, CONFORMING TO THE DIMENSIONS AND REQUIREMENTS OF THE MASSDOT "STANDARD DRAWINGS FOR SIGNS AND SUPPORTS" (LATEST EDITION).
3. SEE THE 2009 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2012 REVISIONS AND SUPPLEMENTS TO THE MUTCD, AND "STANDARD HIGHWAY SIGNS" FOR THE LATEST SPECIFICATIONS ON TEXT DIMENSIONS AND COLOR. (ALSO SEE SECTION M9.30.0 MASSDOT STANDARD SPECIFICATION, THE "MASSACHUSETTS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", THE "MASSDOT STANDARD SIGNS", AND "GUIDE SIGN POLICY FOR SECONDARY STATE HIGHWAYS" (LATEST EDITIONS AND AMENDMENTS) BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION).
4. PBS: PAINTED BOTH SIDES
5. STREET NAME (MA-D3) SIGNS SHALL BE PAINTED ON ONE SIDE AND USE TWO SIGNS MOUNTED BACK TO BACK WITH BOLT-THROUGH METHOD UNLESS OTHERWISE NOTED
6. FYG: FLUORESCENT YELLOW GREEN.

1/28/2025 2:09 PM C:\114005\11463 - WILBRAHAM, MA - STONY RD INTERSECTION\DRAWING FILES\PLANS\BETTY\1463 TSS.DWG (BETA STB BIV STB)

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DESIGNED BY:	IA
CHECKED BY:	DF
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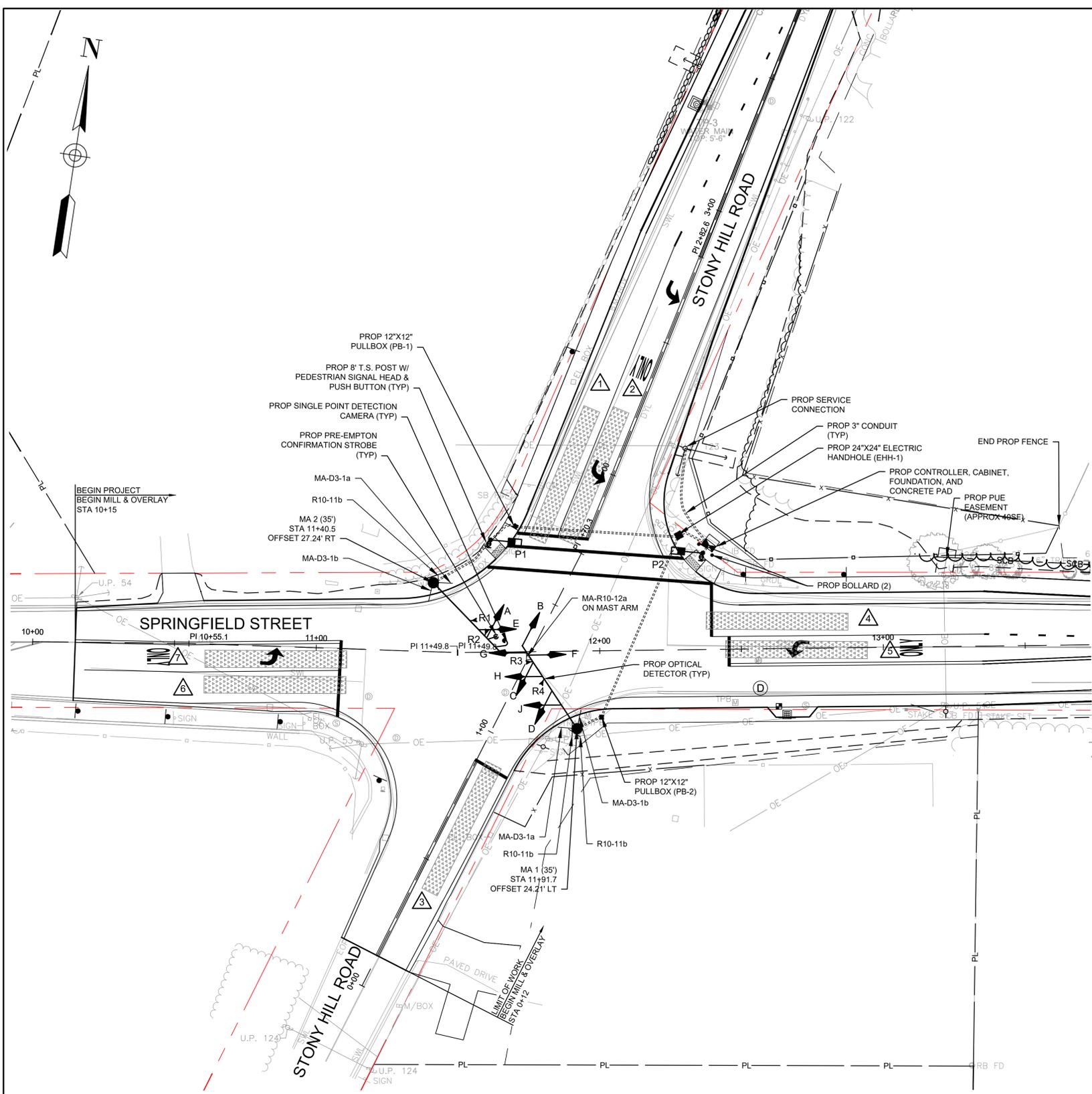


**SPRINGFIELD STREET AT STONY HILL ROAD  
INTERSECTION & SIDEWALK IMPROVEMENTS**  
TRAFFIC SIGN SUMMARY

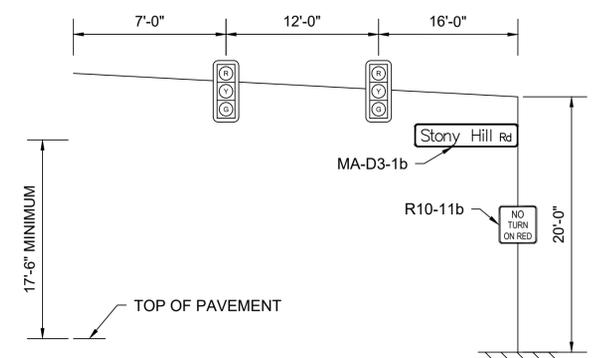
WILBRAHAM, MA

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ISSUE DATE 01/26/2025  
SHEET NO. 23 OF 46

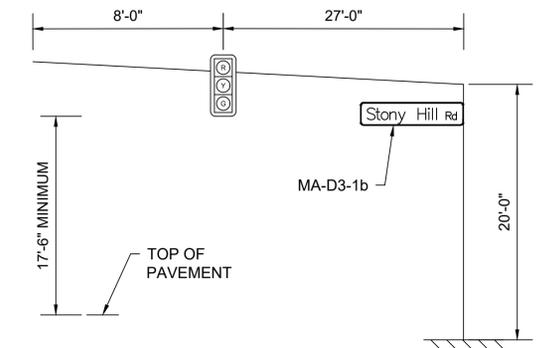
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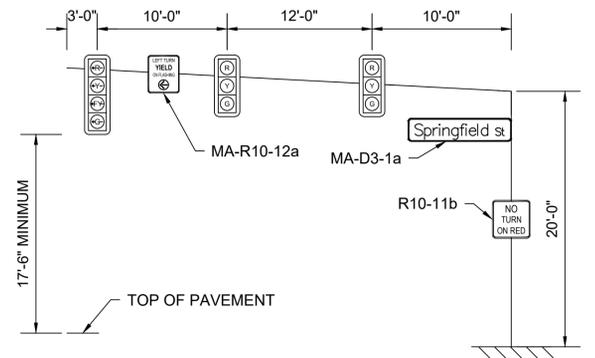
**SPRINGFIELD STREET AT STONY HILL ROAD INTERSECTION**



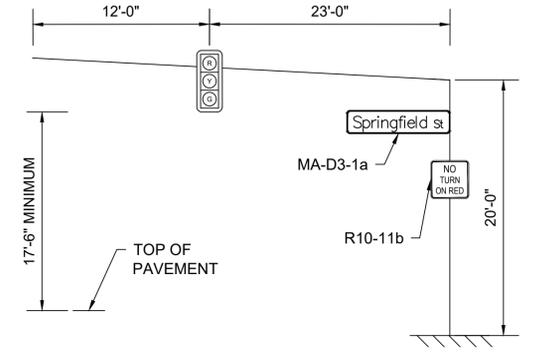
**MAST ARM 1 (35') SKETCH  
STONY HILL ROAD NORTHBOUND  
NOT TO SCALE**



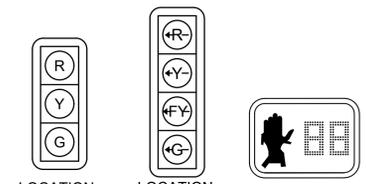
**MAST ARM 2 (35') SKETCH  
STONY HILL ROAD SOUTHBOUND  
NOT TO SCALE**



**MAST ARM 1 (35') SKETCH  
SPRINGFIELD STREET EASTBOUND  
NOT TO SCALE**



**MAST ARM 2 (35') SKETCH  
SPRINGFIELD STREET WESTBOUND  
NOT TO SCALE**



**SIGNAL HEAD DESIGNATIONS  
NOT TO SCALE**

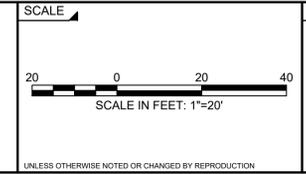
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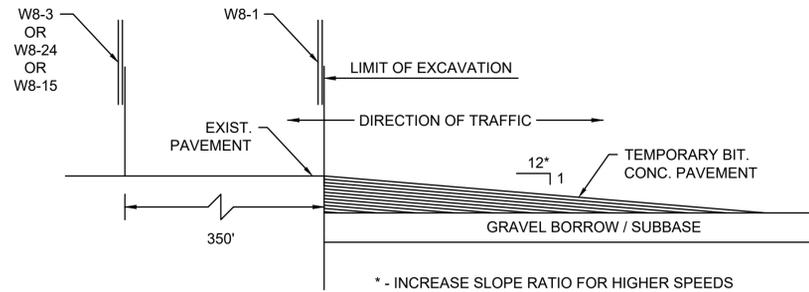
**SPRINGFIELD STREET AT STONY HILL ROAD  
INTERSECTION & SIDEWALK IMPROVEMENTS**  
SIGNAL PLAN  
WILBRAHAM, MA

BETA JOB NO. 11463  
ISSUE DATE 01/26/2025  
SHEET NO. 24 OF 46

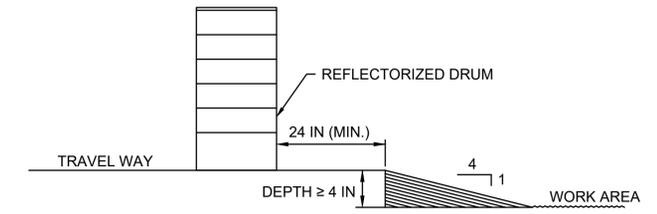


**NOTES:**

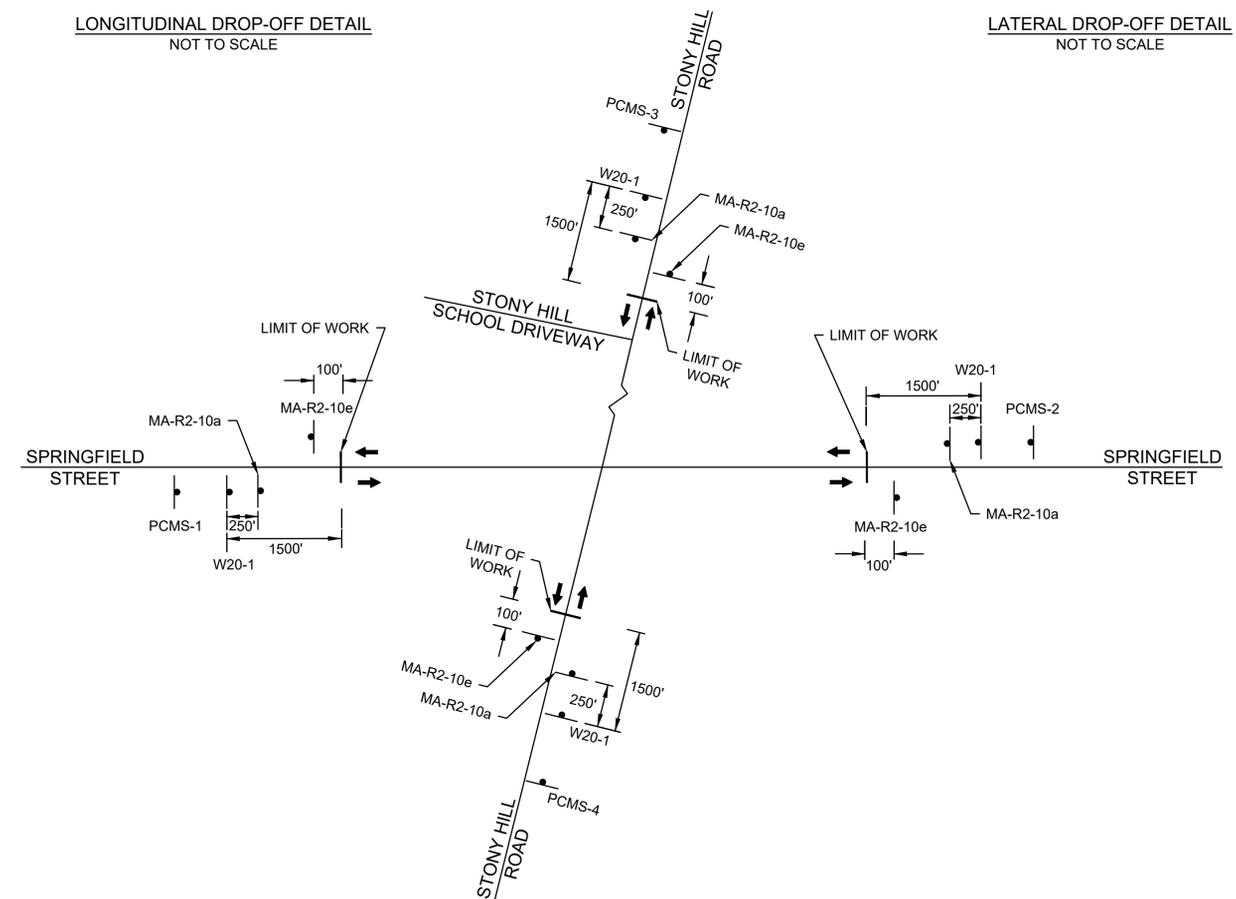
- ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE 2009 EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS.
- ALL SIGN LEGENDS, BORDERS AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD, EXCEPT THAT BACKGROUND COLOR SHALL BE FLUORESCENT ORANGE, IN ACCORDANCE WITH MASSDOT SPECIFICATIONS.
- TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- TEMPORARY CONSTRUCTION SIGNING, BARRICADES AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, AND REFLECTORIZED PLASTIC DRUMS WITH LIGHTING DEVICES MOUNTED ON THEM, MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
- CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
- THE FIRST TEN PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING LIGHTS.
- THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
- TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL NOT COVERED IN THE PLAN SHALL REFER TO MASSDOT "STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TRAFFIC MANAGEMENT PLANS".
- NO WORK REQUIRING LANE CLOSURES SHALL BE ALLOWED BETWEEN 6:00 AND 9:00 AM OR BETWEEN 3:00 AND 6:00 PM.



**LONGITUDINAL DROP-OFF DETAIL**  
NOT TO SCALE



**LATERAL DROP-OFF DETAIL**  
NOT TO SCALE



**TYPICAL INTERSECTION PROJECT LIMIT SIGNING**  
NOT TO SCALE

PCMS-1 PCMS-2	SPRINGFIELD ST ROAD WORK	STARTS XX/XX	PCMS-3 PCMS-4	STONY HILL RD ROAD WORK	STARTS XX/XX
	FRAME 1	FRAME 2		FRAME 1	FRAME 2

NOTE: MESSAGE TO BE DISPLAYED TWO WEEKS PRIOR TO ROAD WORK.

PCMS-1 PCMS-2	SPRINGFIELD ST ROAD WORK	SEEK ALT ROUTE	PCMS-3 PCMS-4	STONY HILL RD ROAD WORK	SEEK ALT ROUTE
	FRAME 1	FRAME 2		FRAME 1	FRAME 2

NOTE: MESSAGE TO BE DISPLAYED FOR THE FIRST TWO WEEKS OF ROAD WORK.

**PCMS MESSAGES**

- LEGEND:**
- REFLECTORIZED PLASTIC DRUM
  - TYPE III BARRICADE
  - FLASHING ARROW PANEL
  - FLASHING ARROW PANEL
  - WORK ZONE
  - DIRECTION OF TRAFFIC
  - IMPACT ATTENUATOR
  - MEDIAN BARRIER
  - MEDIAN BARRIER WITH WARNING LIGHTS
  - WORK VEHICLE
  - TRUCK MOUNTED ATTENUATOR
  - TRAFFIC OR PEDESTRIAN SIGNAL
  - SIGN
  - P POLICE DETAIL
  - F FLAGGER

**WORK ZONE SIGN SPACING**

ROAD TYPE	DISTANCE BETWEEN SIGNS (IN FEET) *			PROJECT ROADWAY CLASSIFICATION
	A	B	C	
LOCAL/LOW VOLUME ROADWAYS	350	350	350	
MOST OTHER ROADWAYS	500	500	500	SPRINGFIELD STREET STONY HILL ROAD
FREEWAYS AND EXPRESSWAYS	1,000	1,000	1,000	

\* A = DISTANCE FROM TRANSITION/POINT OF RESTRICTION TO FIRST SIGN  
 B = DISTANCE BETWEEN FIRST AND SECOND SIGN  
 C = DISTANCE BETWEEN SECOND AND THIRD SIGN (INITIAL WARNING SIGN)

**TAPER LENGTH**

SPEED LIMIT	FORMULA	POSTED SPEED/ 85TH PERCENTILE
40 MPH OR LESS	$L = (W^2 S^2) / 60$	35 MPH (POSTED SPEED) STONY HILL ROAD
45 MPH OR GREATER	$L = W^2 S$	40 MPH (POSTED SPEED) SPRINGFIELD STREET

WHERE:  
 L = TAPER LENGTH IN FEET  
 W = WIDTH OF OFFSET IN FEET  
 S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH PERCENTILE SPEED PRIOR TO WORK STARTING IN MPH

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SCALE

NONE

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

TITLE

**SPRINGFIELD STREET AT STONY HILL ROAD INTERSECTION & SIDEWALK IMPROVEMENTS**

TEMPORARY TRAFFIC CONTROL PLAN

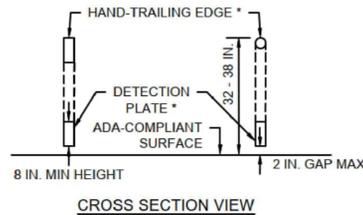
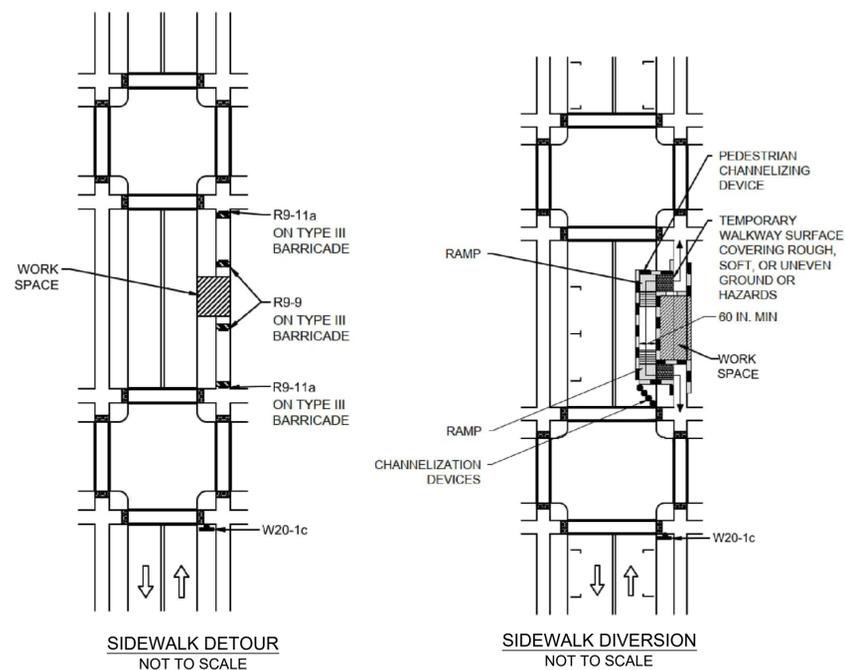
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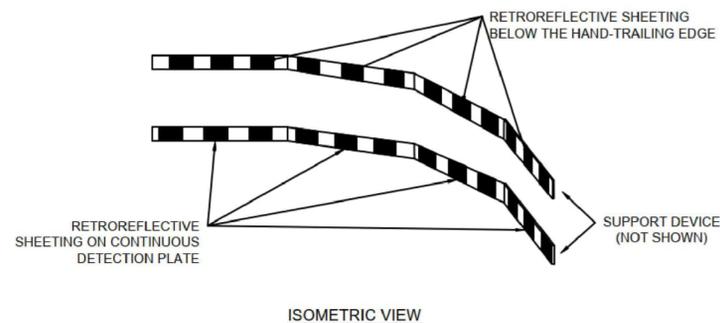
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\* THE HAND-TRAILING EDGE AND DETECTION PLATE SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF THE PATH SUCH THAT A PEDESTRIAN USER WITH A LONG CANE CAN FOLLOW IT.

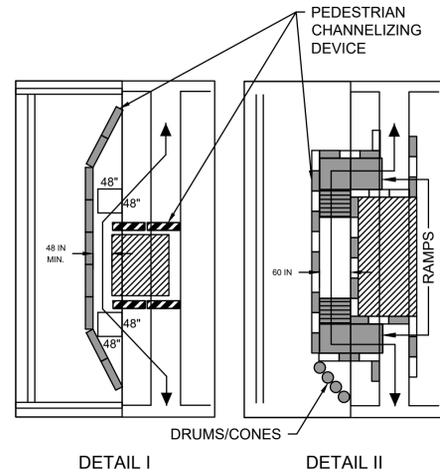
STANDARD RETROREFLECTIVE LAYOUT FOR PEDESTRIAN CHANNELIZING DEVICES



**NOTES:**

1. A MAXIMUM 2-INCH GAP BETWEEN THE BOTTOM OF THE CONTINUOUS DETECTION PLATE AND THE WALKWAY SURFACE MAY BE USED TO PROVIDE DRAINAGE.
2. HAND-TRAILING EDGE AND DETECTION PLATE ARE OPTIONAL FOR CONTINUOUS WALLS.
3. SUPPORT DEVICE FOR CONTINUOUS DETECTION PLATE AND CONTINUOUS HAND-TRAILING EDGE NOT SHOWN ON THE PLAN.
4. STRIPING ON SHEETING PANELS MAY BE EITHER VERTICAL OR AT A 45-DEGREE ANGLE.
5. RETROREFLECTIVE AREAS CAN BE DISTRIBUTED IN A MANNER THAT ENSURES VISIBILITY AND DETECTION WITHOUT NECESSITATING A SINGLE CONTINUOUS APPLICATION.

PEDESTRIAN CHANNELIZING DEVICE  
NOT TO SCALE

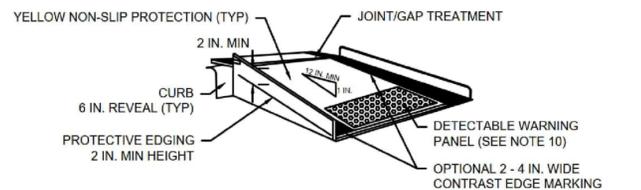
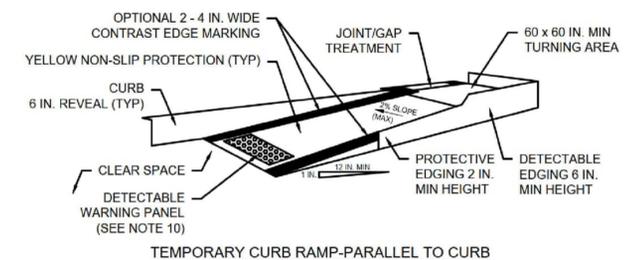
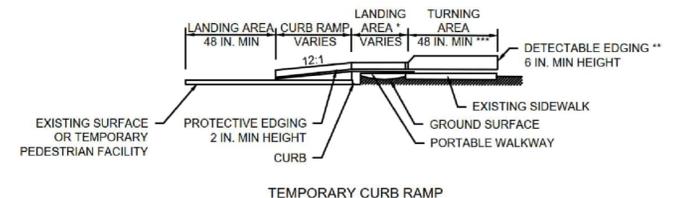
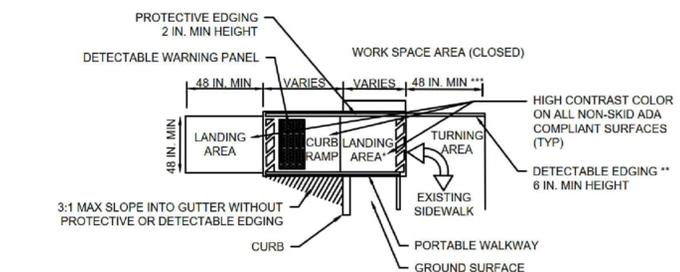


**NOTES:**

- DETAIL I IS CONSIDERED AN EXAMPLE OF A SHORT TERM CLOSURE AND PEDESTRIAN ASSISTANCE (PERSONEL) TO NAVIGATE AROUND THE CLOSURE/WORK AREA COULD BE CONSIDERED AS AN OPTION IN PLACE OF PROVIDING ADA/AAB DEVICES. DETAIL II IS CONSIDERED AN EXAMPLE OF A LONG TERM CLOSURE THAT WOULD REQUIRE ADDITIONAL ADA/AAB COMPLIANT DEVICES. IF A SIDEWALK CLOSURE OR RESTRICTION LASTS FOR MORE THAN ONE (1) WORK SHIFT THEN ADA/AAB COMPLIANCE SHALL BE FOLLOWED.
- WHEN EXISTING PEDESTRIAN FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED IN A TTC ZONE, TEMPORARY FACILITIES SHALL BE PROVIDED AND THEY SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.
- A PEDESTRIAN CHANNELIZING DEVICE THAT IS DETECTABLE BY A PERSON WITH A VISUAL DISABILITY TRAVELING WITH THE AID OF A LONG CANE SHALL BE PLACED ACROSS THE FULL WIDTH OF THE CLOSED SIDEWALK.
- WHEN USED, TEMPORARY RAMPS SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT (SEE FIGURES).
- THE ALTERNATE PATHWAY SHOULD HAVE A SMOOTH CONTINUOUS HARD SURFACE FOR THE ENTIRE LENGTH OF THE TEMPORARY PEDESTRIAN FACILITY.
- THE TEMPORARY SIDEWALK SHOULD BE A MINIMUM OF 4 FEET WIDE. IF THE SIDEWALK EXCEEDS 200 FEET THEN A 5 FOOT BY 5 FOOT PASSING ZONE SHALL BE PROVIDED.
- THE PROTECTIVE REQUIREMENTS OF A TTC WORK ZONE MAY HAVE AN IMPACT IN DETERMINING THE NEED FOR TEMPORARY TRAFFIC BARRIERS AND THEIR USE IN PROVIDING PEDESTRIAN DELINEATION SHOULD BE BASED ON ENGINEERING JUDGMENT .
- CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN; VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE. THESE DETAILS ARE USED IN CONJUNCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DETERMINED BY THE ENGINEER.
- AUDIBLE INFORMATION DEVICES SHOULD BE CONSIDERED WHERE MIDBLOCK CLOSINGS AND CHANGED CROSSWALK AREAS CAUSE INADEQUATE COMMUNICATION TO BE PROVIDED TO PEDESTRIANS WHO HAVE VISUAL DISABILITIES.
- EXISTING AUDIBLE DEVICES NO LONGER APPLICABLE DUE TO CONSTRUCTION SHALL BE DISABLED.

**AUDIBLE DEVICES:**

- FOR LONG TERM SIDEWALK CLOSURES (AT A MINIMUM OVERNIGHT) A FORM OF SPEECH MESSAGING FOR PEDESTRIANS WITH VISUAL DISABILITIES SHALL BE PROVIDED. AUDIBLE INFORMATION DEVICES SUCH AS DETECTABLE BARRIERS OR BARRICADES AND OTHER PASSIVE PEDESTRIAN ACTIVATION (MOTION ACTIVATED) DEVICES SHOULD BE CONSIDERED FOR THESE CASES. THESE AUDIBLE DEVICES CAN BE MOUNTABLE OR STAND ALONE.



- TEMPORARY CURB RAMP - PERPENDICULAR TO CURB**
- \*\* LANDING AREA USED TO OVERLAP NON-ADA COMPLIANT SURFACES.
  - \*\*\* DETECTABLE EDGING REMOVED IF A CONTINUOUS SIDEWALK.
  - 60 IN. MINIMUM IF AN OBSTRUCTION IS AT BACK OF SIDEWALK.

**NOTES:**

1. CURB RAMPS SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE, AND NON-SLIP SURFACE.
2. PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
3. DETECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. THE CURB RAMP WALKWAY AND LANDING AREA SURFACE SHALL BE OF A SOLID CONTINUOUS CONTRASTING COLOR ABUTTING UP TO THE EXISTING SIDEWALK.
5. CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAXIMUM CROSS-SLOPE.
6. CLEAR SPACE OF 48 x 48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
7. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. HEIGHT.
10. IF A TEMPORARY PEDESTRIAN RAMP LEADS TO A CROSSWALK, THEN A DETECTABLE WARNING PANEL MUST BE ADHERED TO THE BASE OF THE RAMP. IF IT LEADS TO A PROTECTED PEDESTRIAN BYPASS THAT DOES NOT CONFLICT WITH VEHICULAR TRAFFIC, THEN A DETECTABLE WARNING PANEL SHALL NOT BE INSTALLED ON THE RAMP.

TEMPORARY CURB RAMP  
NOT TO SCALE

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CHECKED BY: DF

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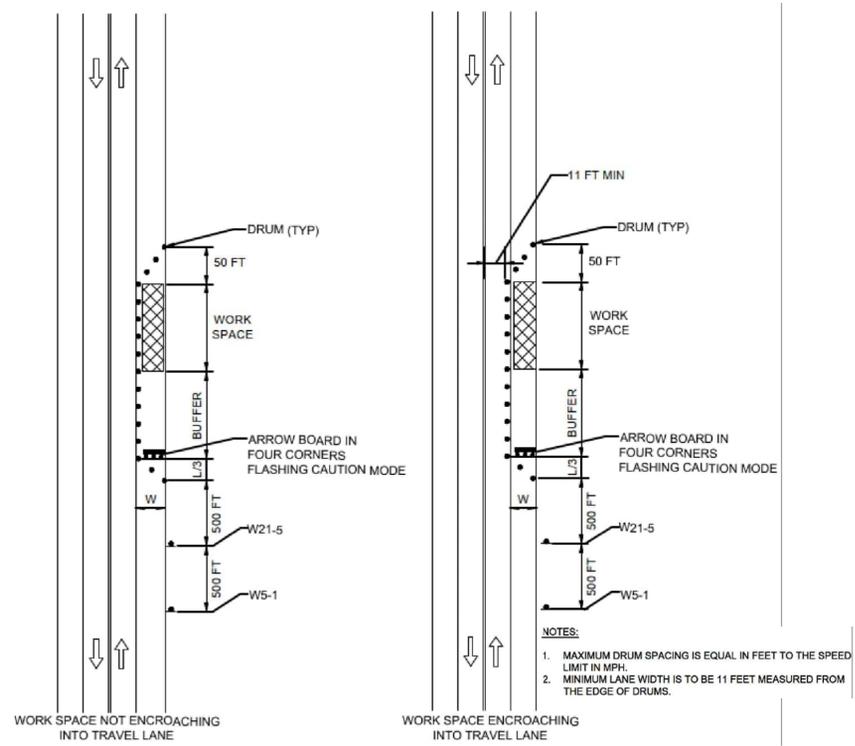
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TEMPORARY TRAFFIC CONTROL PLAN  
WILBRAHAM, MA

BETA JOB NO. 11463  
ISSUE DATE 01/26/2025  
SHEET NO. 27 OF 46

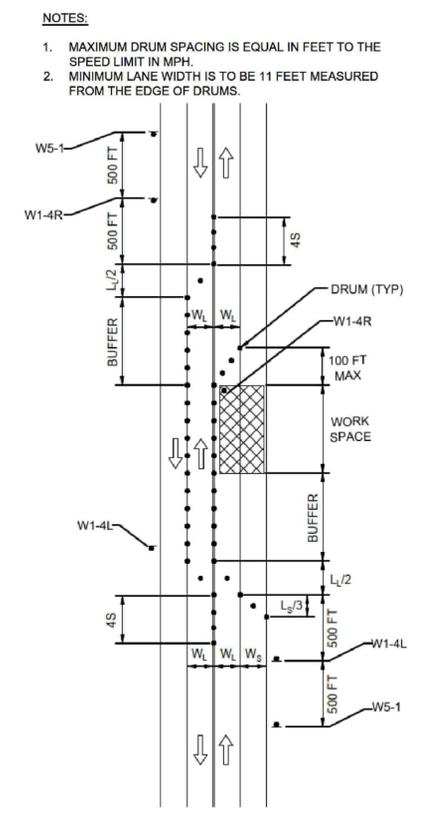
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# CONSTRUCTION SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	DIMENSIONS (in)			NUMBER OF SIGNS REQUIRED	COLOR			UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK-GROUND	LEGEND	BORDER		
MA-R2-10a	48 in	36 in	WORK ZONE SPEEDING FINES DOUBLED	SEE MASSDOT STANDARDS			4	ORANGE* /WHITE	BLACK	BLACK	12.0	48.0
MA-R2-10e	36 in	48 in	END ROAD WORK DOUBLE FINES END	SEE MASSDOT STANDARDS			4	ORANGE* /WHITE	BLACK	BLACK	12.0	48.0
W1-4R	36 in	36 in		SEE 2023 MUTCD STANDARDS			2	ORANGE*	BLACK	BLACK	9.0	18.0
W1-4L	36 in	36 in										
W5-1	36 in	36 in										
W20-1	36 in	36 in										
W20-4	36 in	36 in										
W20-7	36 in	36 in										
MA-W20-7b	36 in	36 in										
W21-5	36 in	36 in		SEE MASSDOT STANDARDS			2	ORANGE*	BLACK	BLACK	9.0	18.0
W21-5	36 in	36 in		SEE 2023 MUTCD STANDARDS			2	ORANGE*	BLACK	BLACK	9.0	18.0

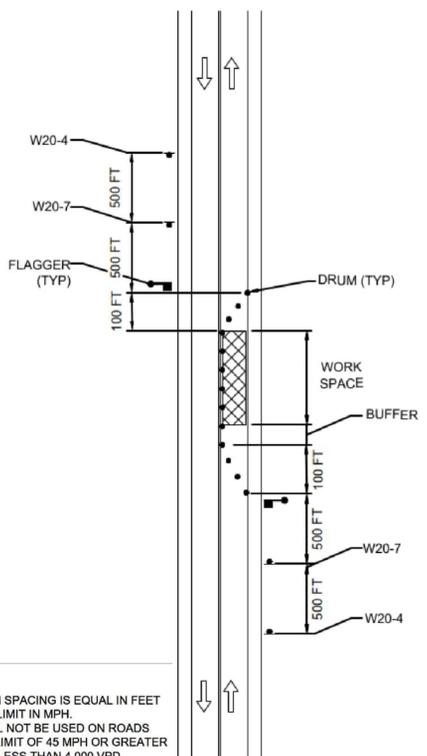


**TWO LANE ROAD SHOULDER CLOSURE**  
NOT TO SCALE

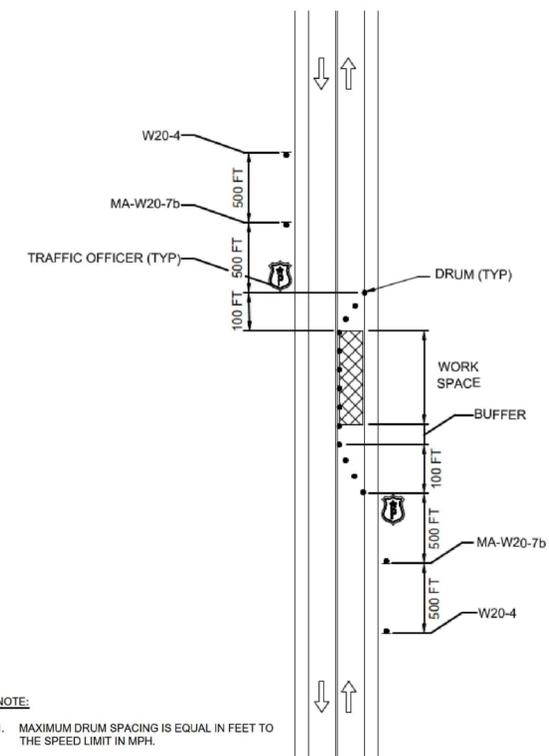


**TWO LANE ROAD HALF ROAD CLOSURE**  
NOT TO SCALE

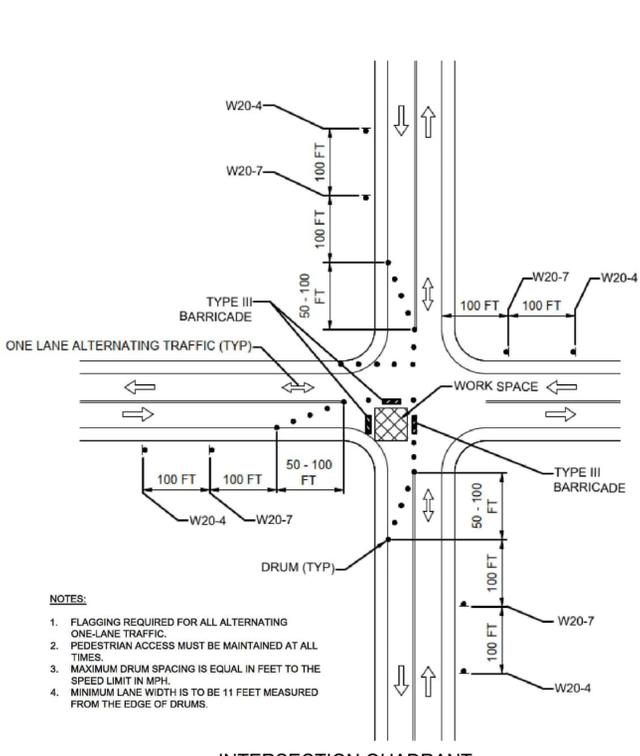
- NOTES:
- NUMBER OF SIGNS ARE ESTIMATED FOR BIDDING PURPOSES ONLY.
  - HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING CONFORMING TO SECTION M9.30.0, TYPE III OR IV, OF THE MASSDOT STANDARD SPECIFICATIONS SHALL BE USED FOR ALL SIGNS.
  - SEE THE 2023 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD HIGHWAY SIGNS" FOR THE LATEST SPECIFICATIONS ON TEXT DIMENSIONS AND COLOR. (ALSO SEE SECTION M9.30.0 TYPE III MASSDOT STANDARD SPECIFICATION, THE "MASSACHUSETTS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES," AND "GUIDE SIGN POLICY FOR SECONDARY STATE HIGHWAYS" (LATEST EDITIONS) BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION).
  - FYG: FLUORESCENT YELLOW GREEN.
  - \* = FLUORESCENT ORANGE



**ALTERNATING ONE-WAY (FLAGGER CONTROL)**  
NOT TO SCALE



**ALTERNATING ONE-WAY (TRAFFIC OFFICER)**  
NOT TO SCALE



**INTERSECTION QUADRANT CLOSURE**  
NOT TO SCALE

- NOTES:
- MAXIMUM DRUM SPACING IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
  - DRAWING SHALL NOT BE USED ON ROADS WITH A SPEED LIMIT OF 45 MPH OR GREATER UNLESS ADT IS LESS THAN 4,000 VPD.

- NOTE:
- MAXIMUM DRUM SPACING IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.

- NOTES:
- FLAGGING REQUIRED FOR ALL ALTERNATING ONE-LANE TRAFFIC.
  - PEDESTRIAN ACCESS MUST BE MAINTAINED AT ALL TIMES.
  - MAXIMUM DRUM SPACING IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
  - MINIMUM LANE WIDTH IS TO BE 11 FEET MEASURED FROM THE EDGE OF DRUMS.

1/28/2025 2:08 PM C:\114005\11483 - WILBRAHAM, MA - STONY RD INTERSECTION\DRAWING FILES\PLANS\SET1\1483 TTCP.DWG (BETA, STB, BW, STB)

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:  
AR

DESIGNED BY:  
IA

CHECKED BY:  
DF

REGISTERED PROFESSIONAL

**For Review Only**



SUBCONSULTANT

SCALE

NONE

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

TITLE

**SPRINGFIELD STREET AT STONY HILL ROAD INTERSECTION & SIDEWALK IMPROVEMENTS**

TEMPORARY TRAFFIC CONTROL PLAN

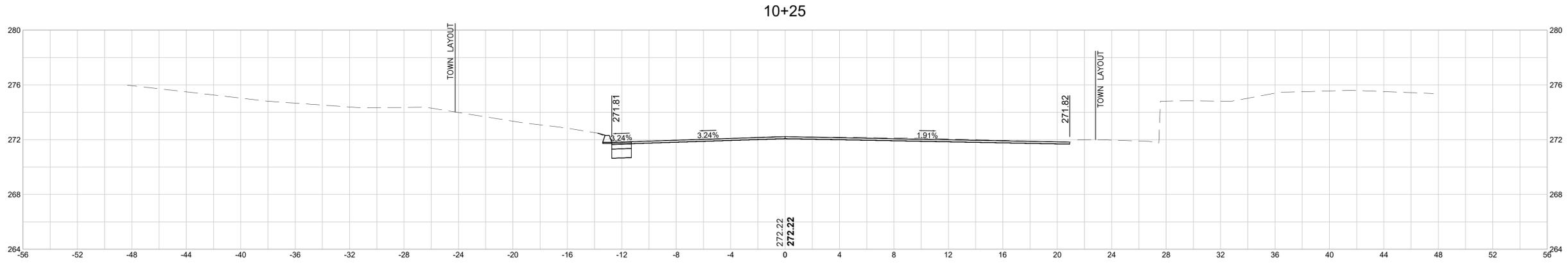
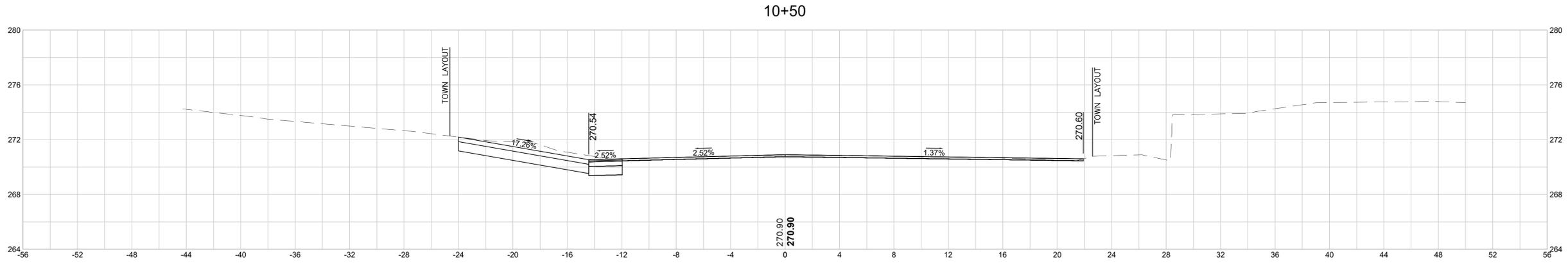
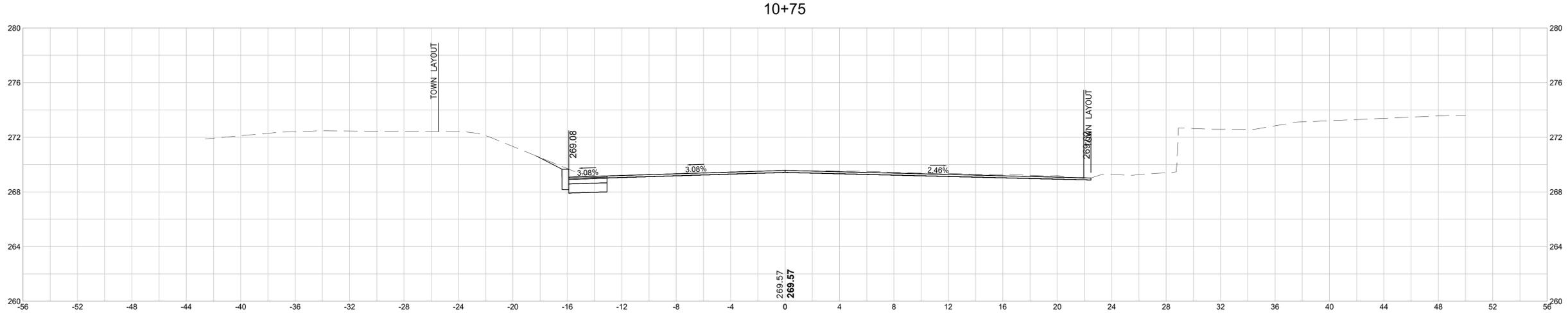
WILBRAHAM, MA

BETA JOB NO. 11463

ISSUE DATE 01/26/2025

SHEET NO. 28 OF 46

BETA GROUP INC. TEMPLATE (BETA\_STANDARD\_TEMPLATE - 1.0.025A) CIVIL\_3D (CIVIL\_3D\_002A) PLOTSTYLE (BETA\_STB.BW) (STB) USER(KYUEN)  
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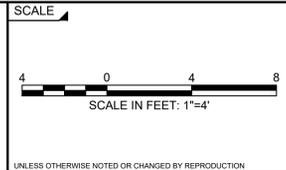
NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:  
 CM  
 DESIGNED BY:  
 KL  
 CHECKED BY:  
 DJ

REGISTERED PROFESSIONAL  
 PREPARED BY



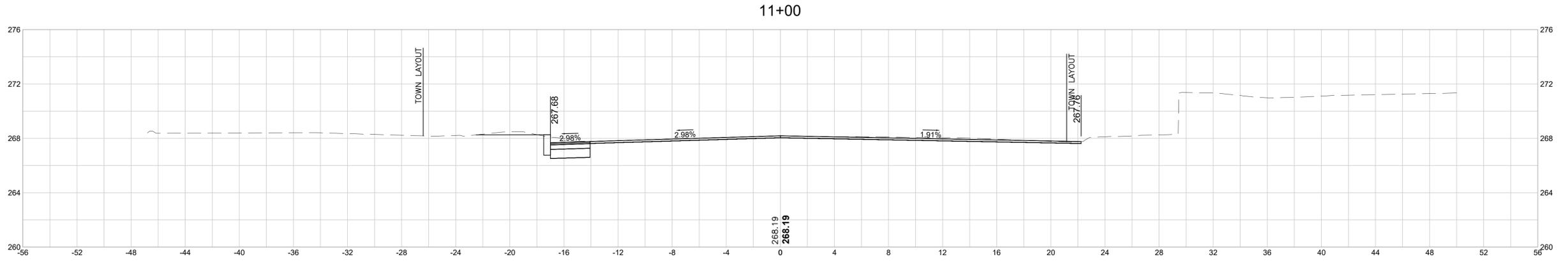
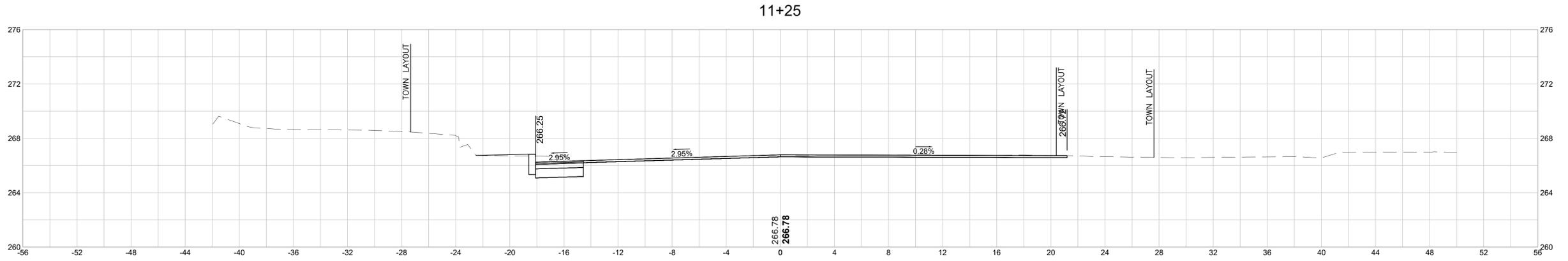
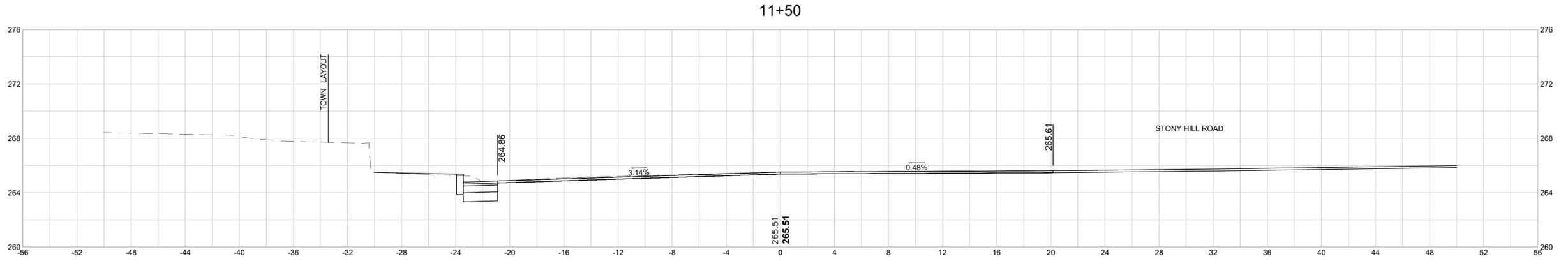
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**TITLE**  
**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - SPRINGFIELD STREET  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 29 OF 46

BETA GROUP INC. TEMPLATE (BETA\_STANDARD\_TEMP.ACTE - 1.0.025A) CIVIL\_3D\_002A - PLOTSTYLE (BETA\_STB.BW.STB) USER(KYUEN)  
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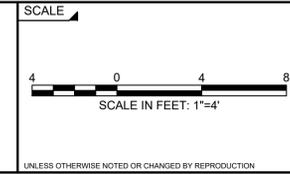


NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

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 DESIGNED BY: KL  
 CHECKED BY: DJ

REGISTERED PROFESSIONAL  
 PREPARED BY  
  
 www.BETA-Inc.com

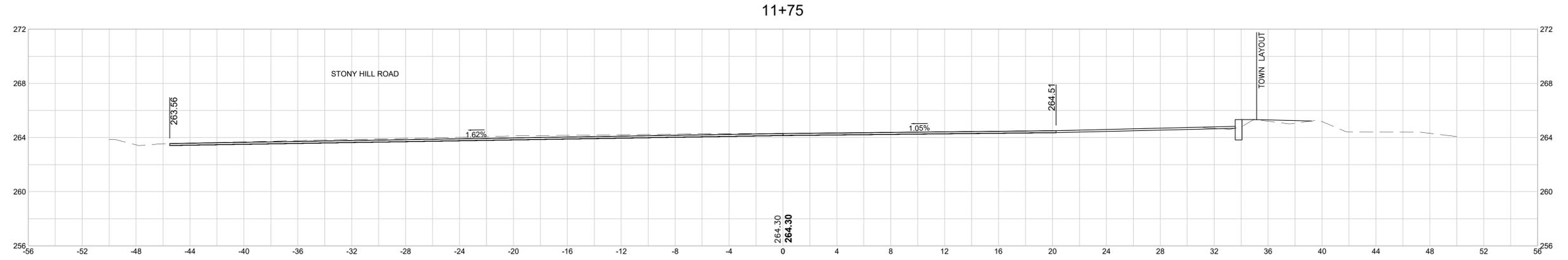
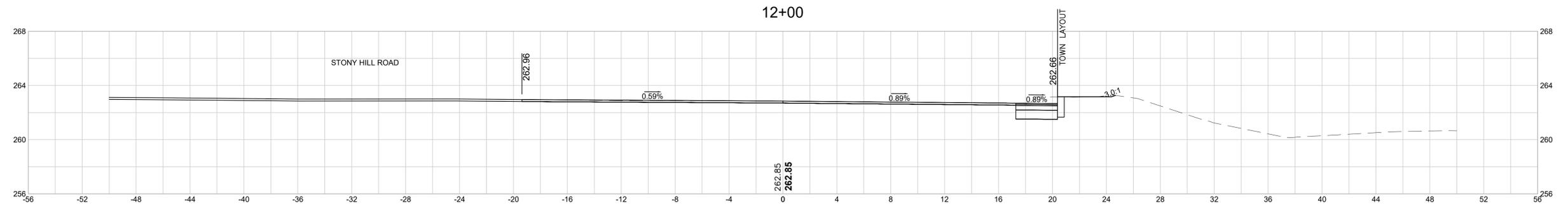
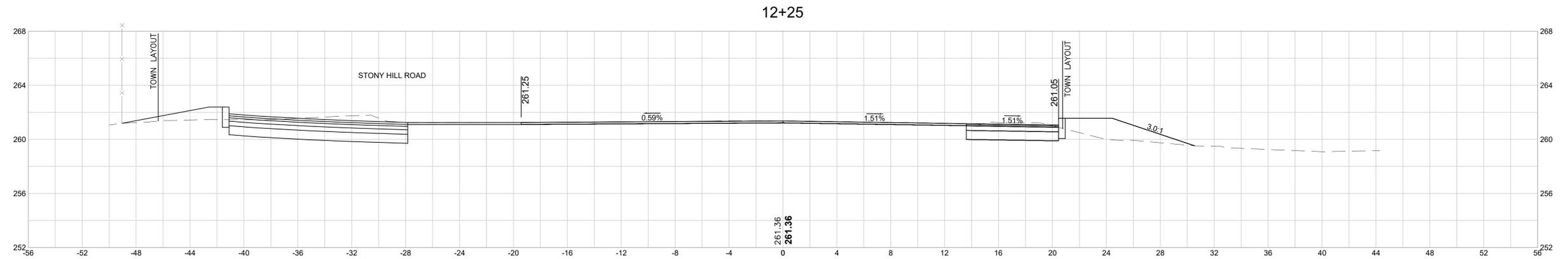
SUBCONSULTANT



**TITLE**  
**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - SPRINGFIELD STREET  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 30 OF 46

BETA GROUP INC. TEMPLATE (BETA\_STANDARD\_TEMP.ACTE - 1.0.025A) CIVIL 3D (025A) PLOTSTYLE (BETA\_STB.BW.DWG) USER(KYUEN)  
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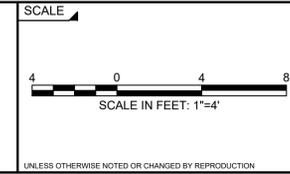
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SUBCONSULTANT



TITLE

**SPRINGFIELD STREET AT STONY HILL ROAD  
INTERSECTION & SIDEWALK IMPROVEMENTS**

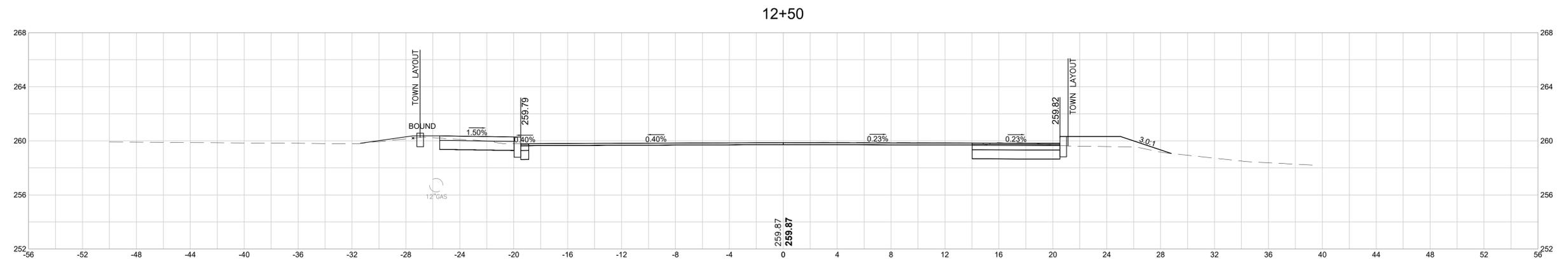
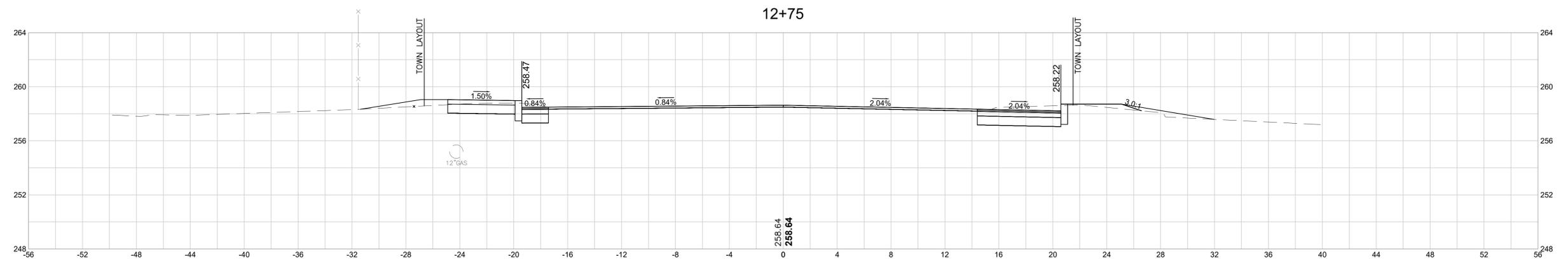
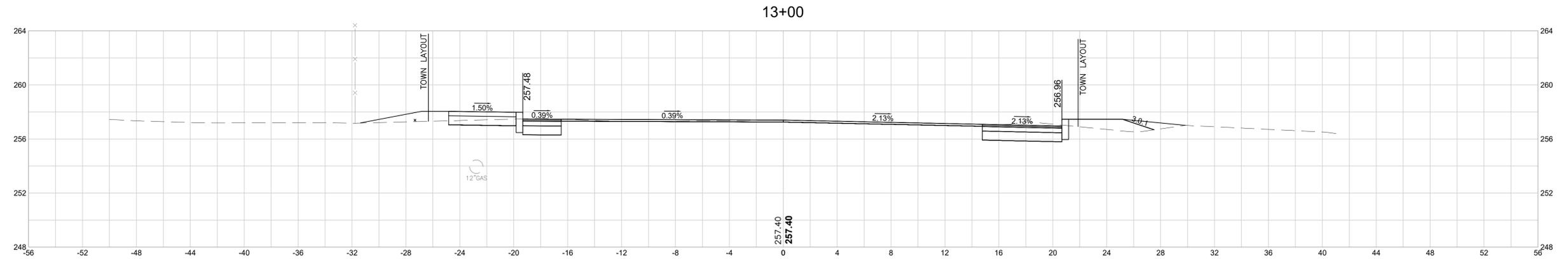
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STREET  
WILBRAHAM, MA

BETA JOB NO. 11463

ISSUE DATE 01/26/2025

SHEET NO. 31 OF 46

BETA GROUP INC. TEMPLATE (BETA\_STANDARD\_TEMP.ACTE - 1.0.2024) CIVIL\_3D (CIVIL\_3D\_0024) PLOTSTYLE (BETA\_STB.BW.STB) USER(KYUEN)  
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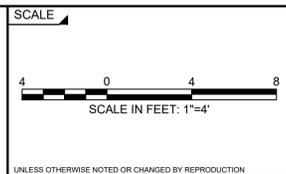
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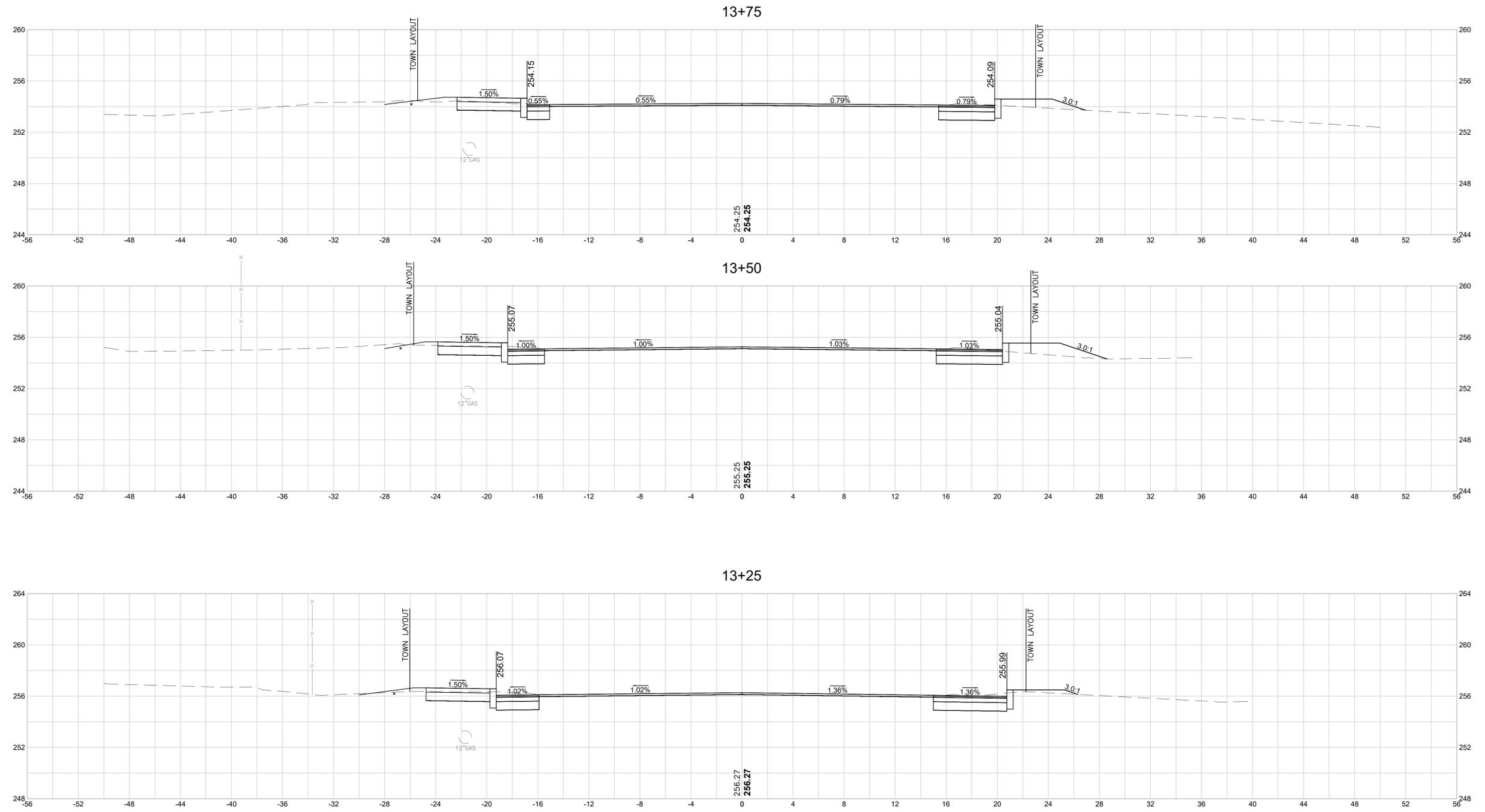
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**TITLE**  
**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - SPRINGFIELD STREET  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 32 OF 46

BETA GROUP INC. TEMPLATE (BETA\_STANDARD\_TEMP.ACTE - 1.0.025A) CIVIL\_3D (CIVIL\_3D.025A) PLOTSTYLE (BETA\_STB.BW.STB) USER(KYUEN)  
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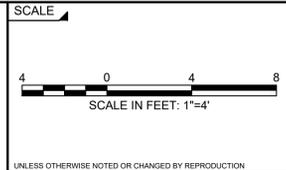
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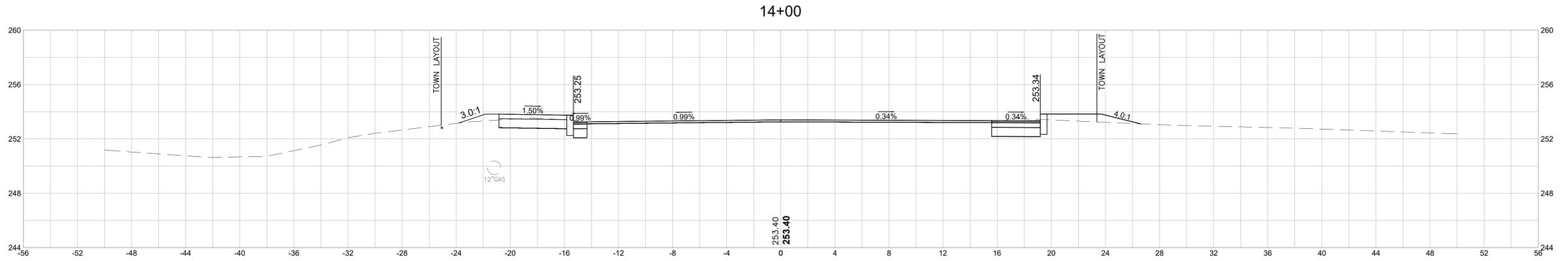
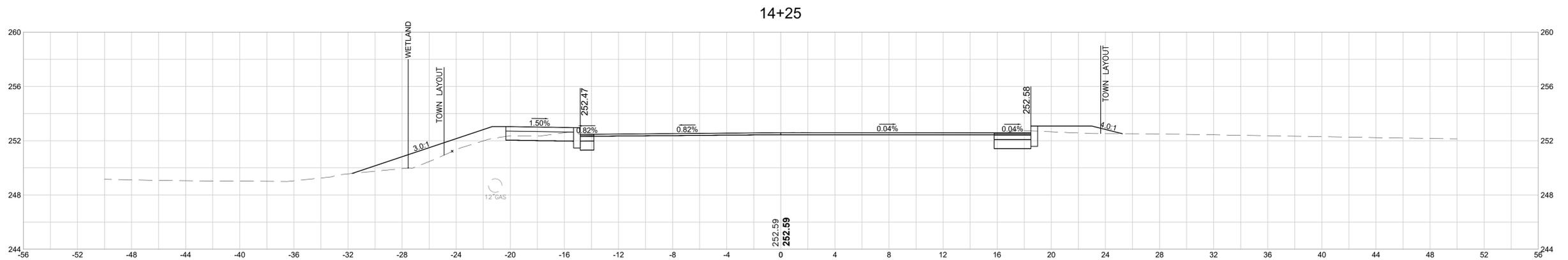
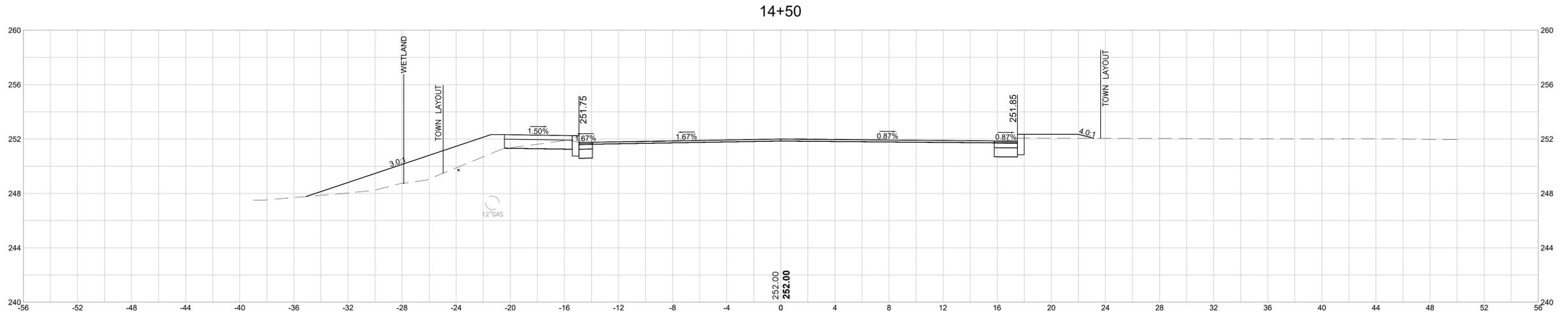
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**TITLE**  
**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - SPRINGFIELD STREET  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 33 OF 46

BETA GROUP, INC. TEMPLATE (BETA\_STANDARD\_TEMP.ACTE - 1.0.025A) CIVIL\_3D (CIVIL\_3D.025A) PLOTSTYLE (BETA\_STB.BW.STB) USER(KYUEN)  
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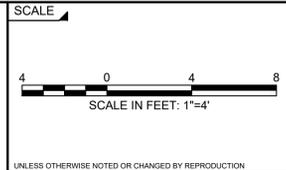
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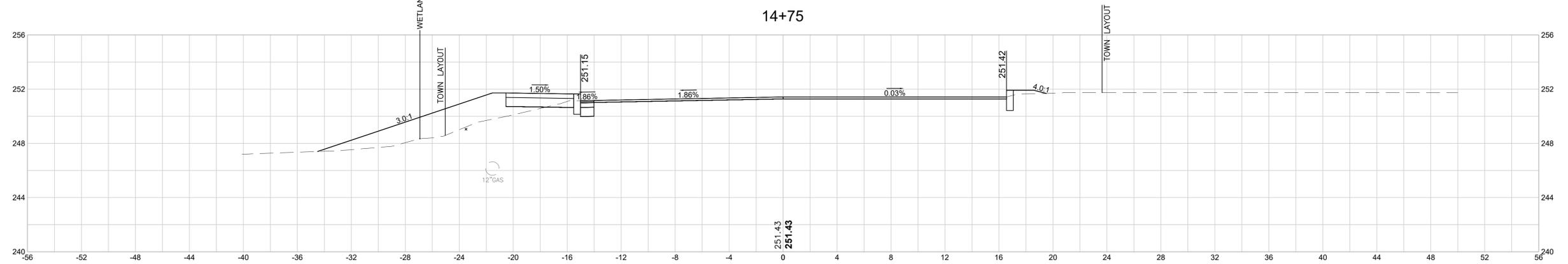
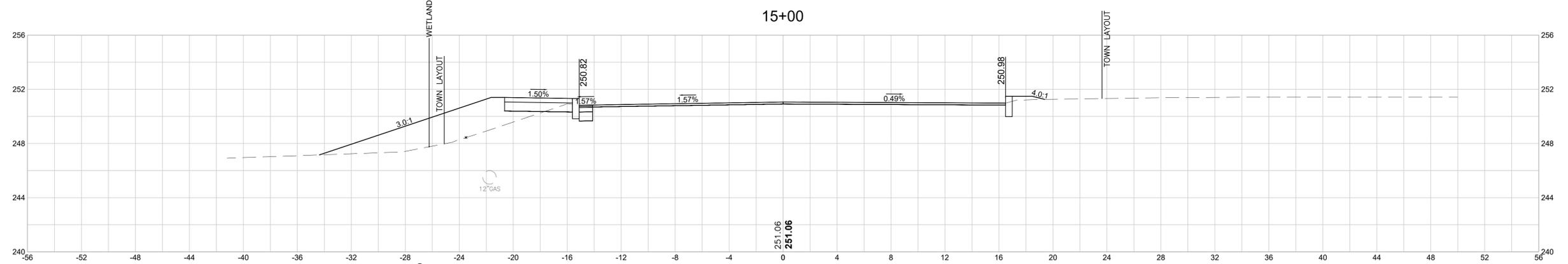
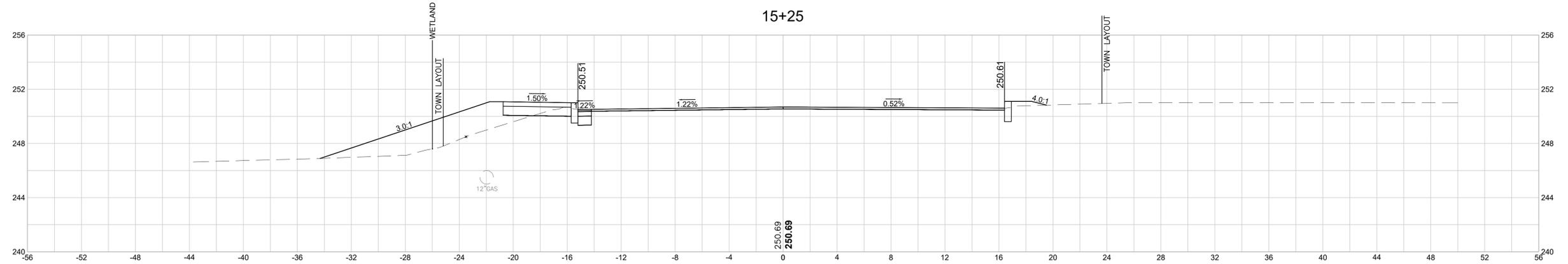
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**TITLE**  
**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - SPRINGFIELD STREET  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 34 OF 46

2/11/2025 11:49 AM BETA GROUP INC. TEMPLATE (BETA\_STANDARD\_TEMPLATE - 1.0.DWG) CIVIL 3D (PLOT) PLOTSTYLE (BETA\_STB.BW) (STB) USER(KYUEN)



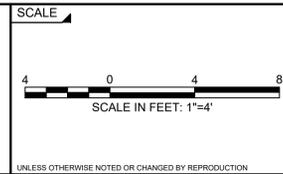
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REGISTERED PROFESSIONAL  
 PREPARED BY



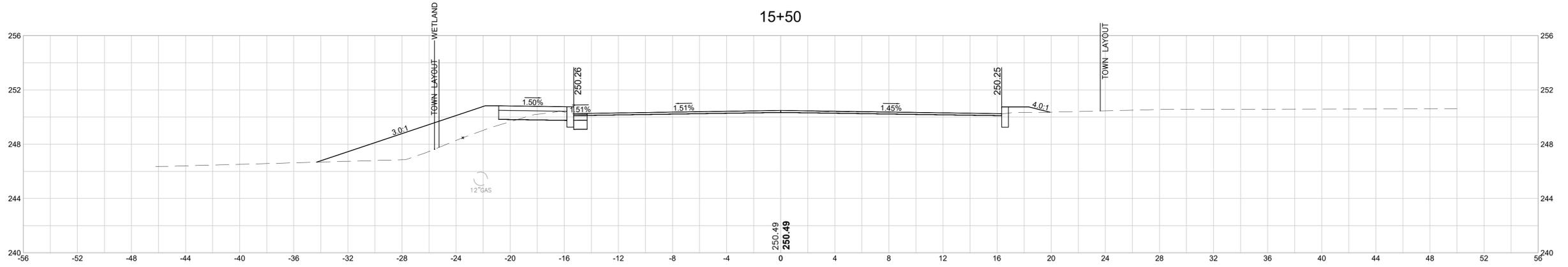
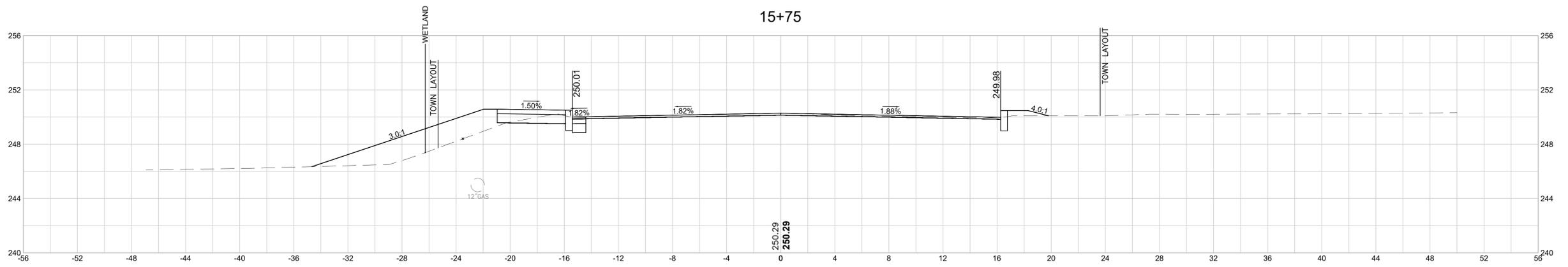
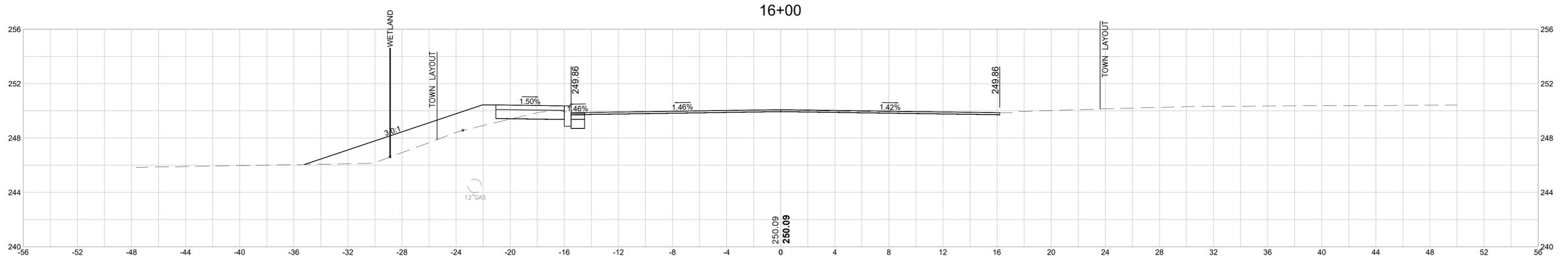
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**TITLE**  
**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - SPRINGFIELD STREET  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 35 OF 46

2/11/2025 11:49 AM BETA GROUP INC. TEMPLATE (BETA\_STANDARD\_TEMP.ACTE - 1.0.025A) CIVIL\_3D (025A) PLOTSTYLE (BETA\_STB.BW.STB) USER(KYUEN) C:\114005\11463 - WILBRAHAM, MA - STONY RD INTERSECTION\DRAWING FILES\XREFS\11463\_XSECTION.DWG (BETA\_STB.BW.STB)



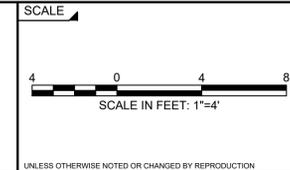
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SUBCONSULTANT

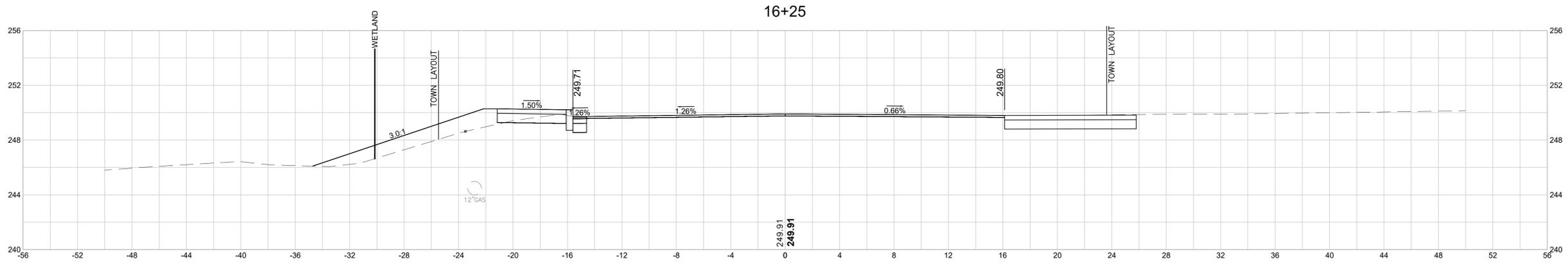
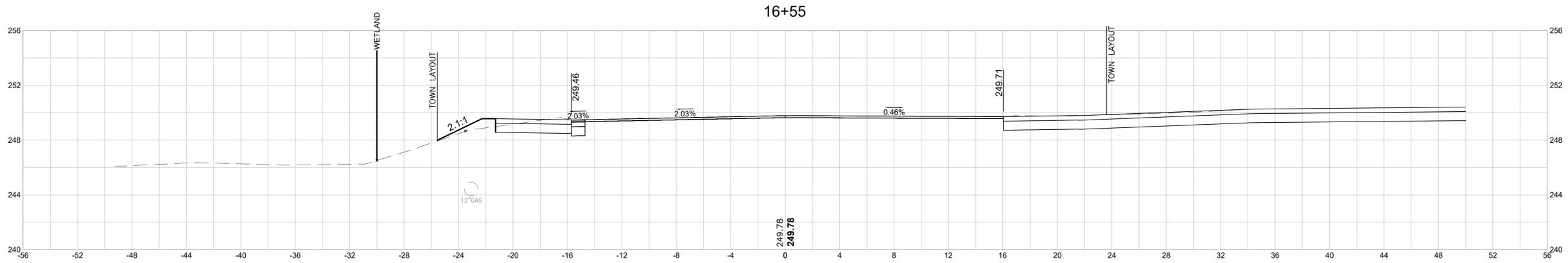
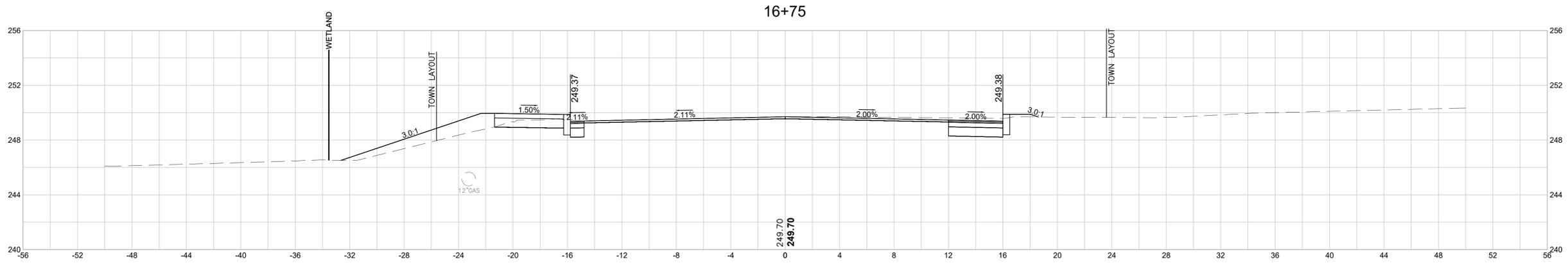


**TITLE**  
**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - SPRINGFIELD STREET  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 36 OF 46

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

BETA GROUP, INC. TEMPLATE (BETA\_STANDARD\_TEMP.ACTE - 1.0.000) CIVIL\_3D (CIVIL\_3D\_000) PLOTSTYLE (BETA\_STB.BW.DWG) USER(KYUEN)  
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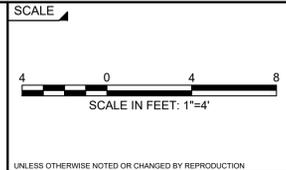
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SUBCONSULTANT

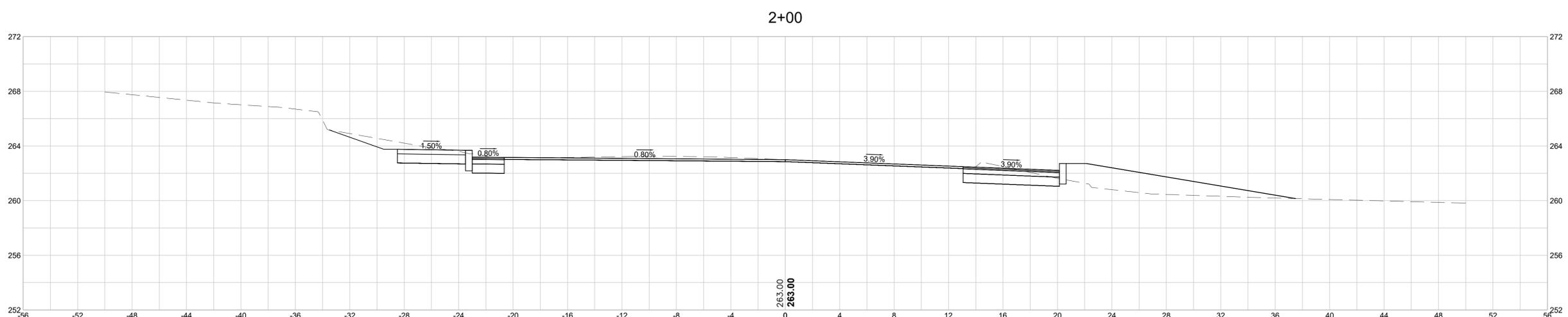
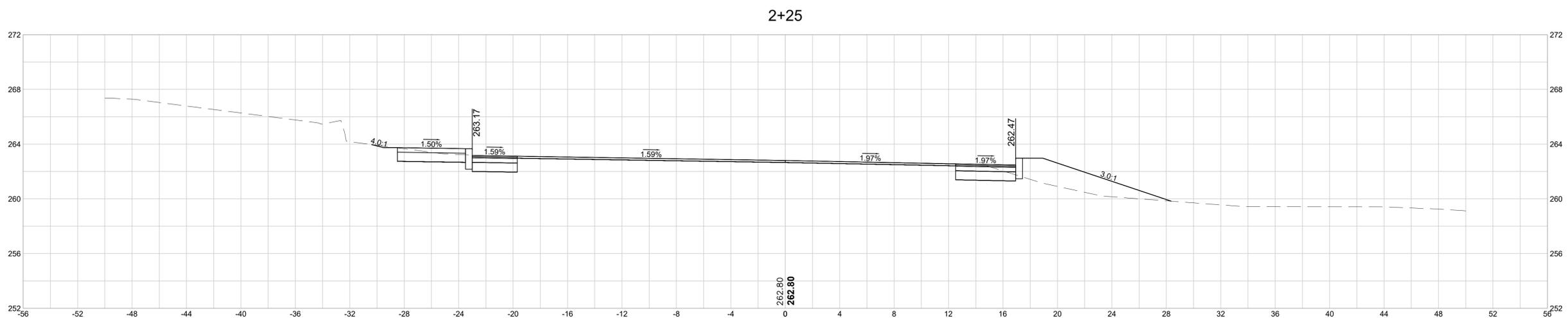
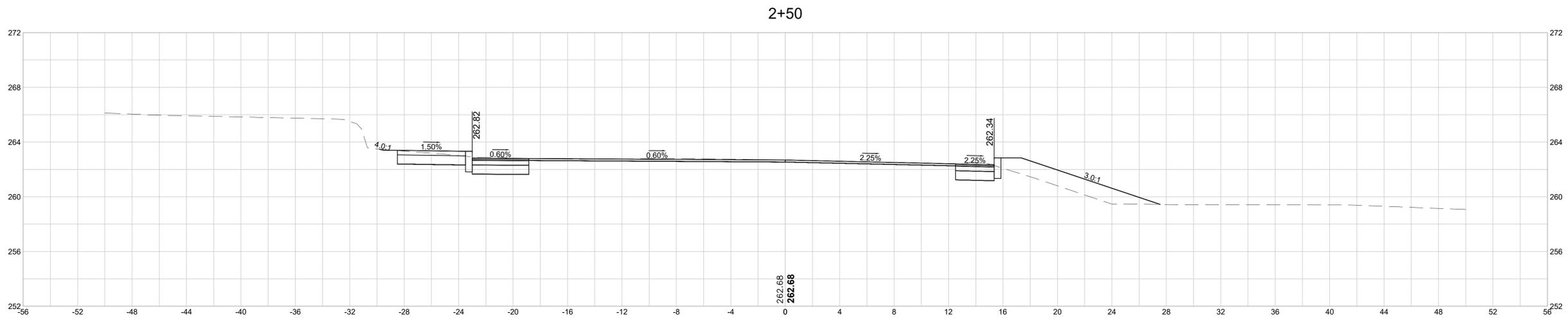


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**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - SPRINGFIELD STREET  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 37 OF 46

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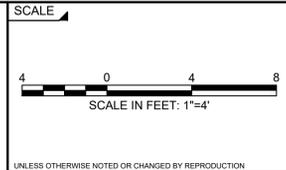
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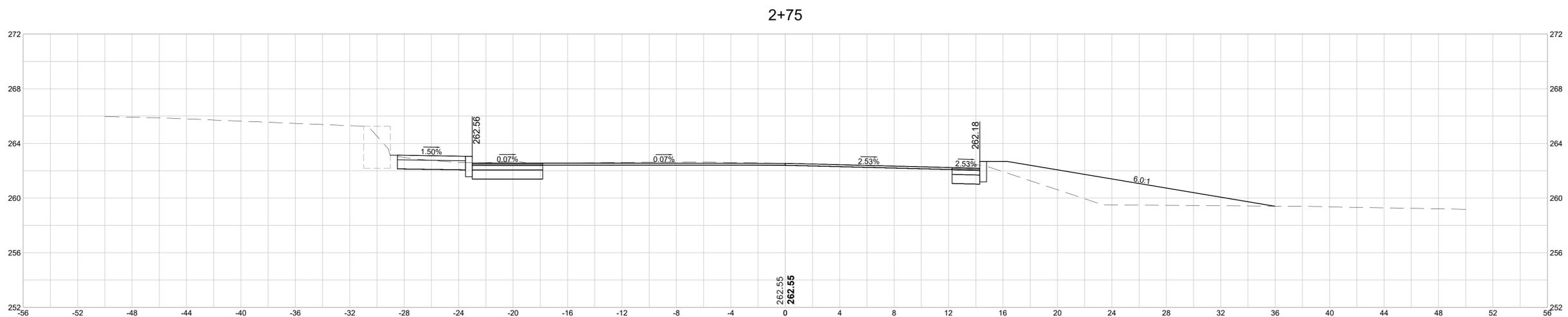
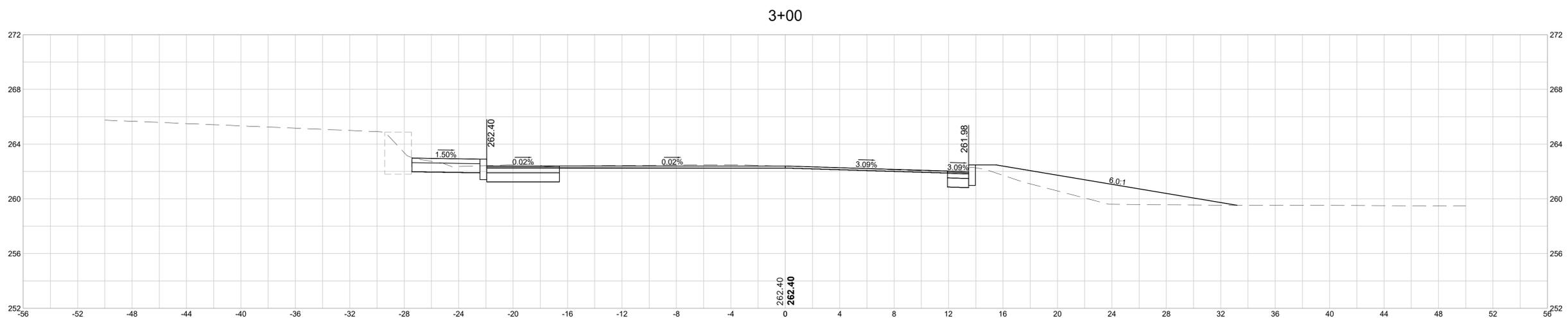
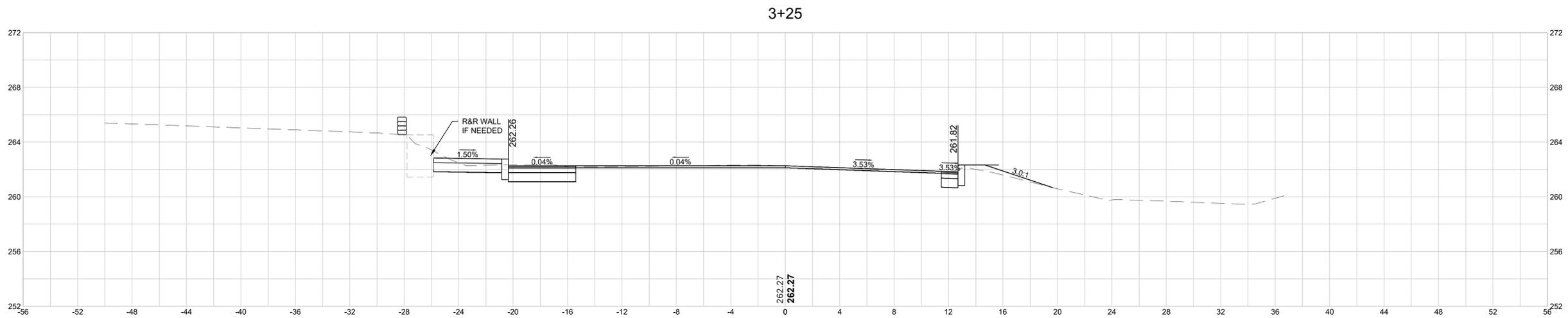
SUBCONSULTANT



**TITLE**  
**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - STONY HILL ROAD  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 38 OF 46

2/11/2025 11:49 AM C:\114005\11463 - WILBRAHAM, MA - STONY RD INTERSECTION\DRAWING FILES\XREFS\11463\_XSECTION.DWG (BETA STB.BV.STB) USER(KYUEN)



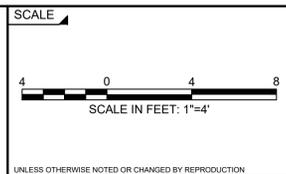
NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:  
 CM  
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 KL  
 CHECKED BY:  
 DJ

REGISTERED PROFESSIONAL  
 PREPARED BY



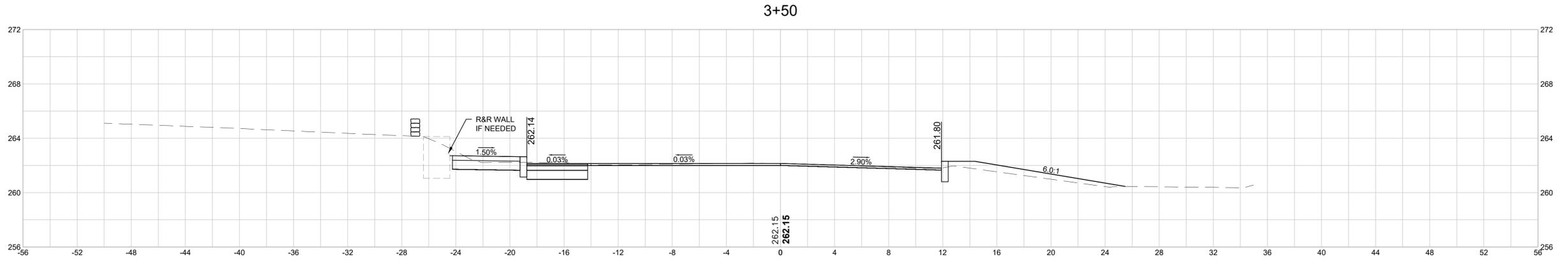
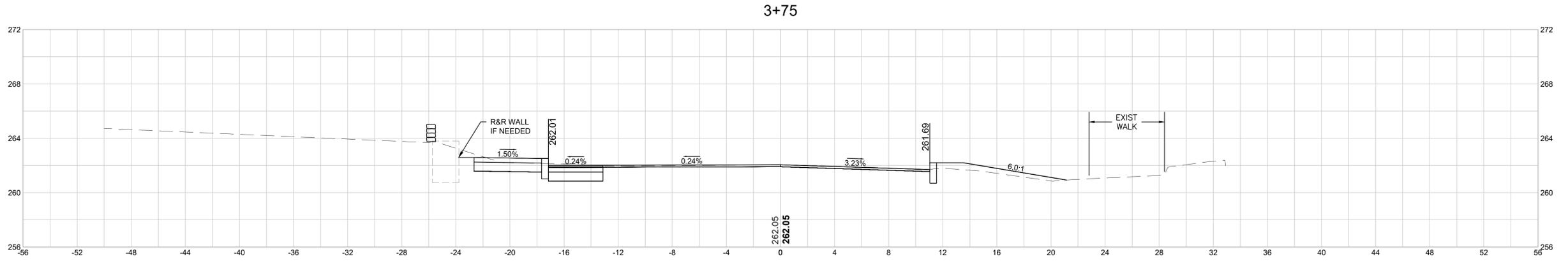
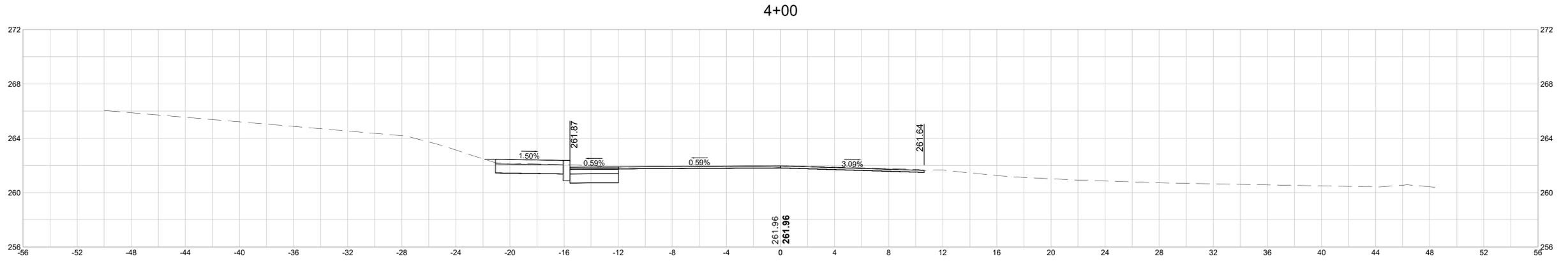
SUBCONSULTANT



**TITLE**  
**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - STONY HILL ROAD  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 39 OF 46

BETA GROUP INC. TEMPLATE (BETA\_STANDARD\_TEMP.ACTE - 1.0.025A) CIVIL\_3D\_002A - PLOTSTYLE (BETA\_STB.BW.STB) USER(KYUEN)  
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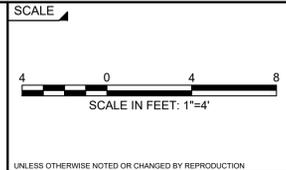
NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:  
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REGISTERED PROFESSIONAL  
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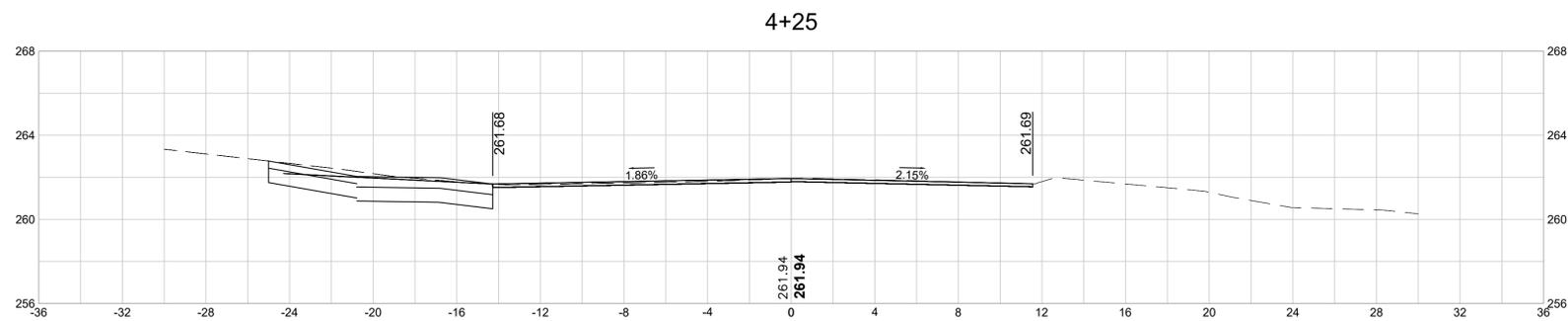
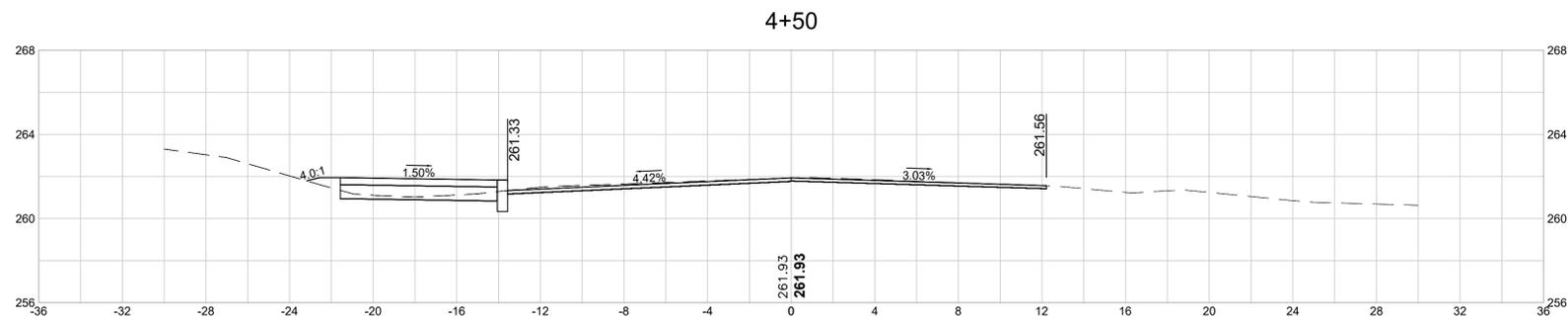
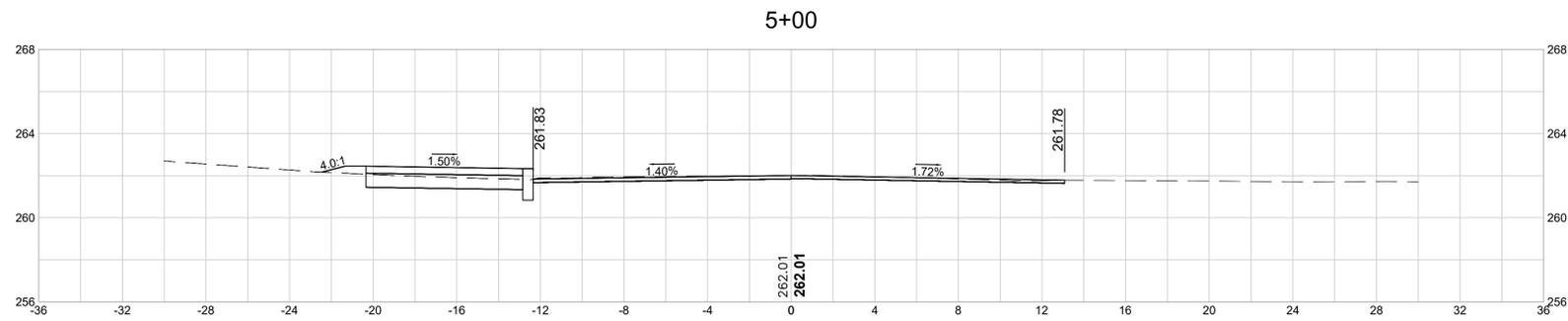
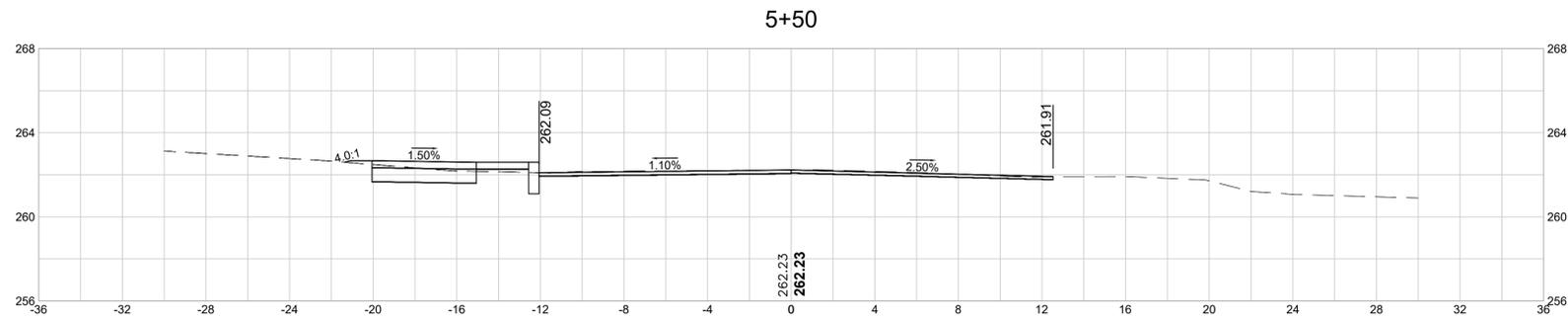
SUBCONSULTANT



**TITLE**  
**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - STONY HILL ROAD  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 40 OF 46

BETA GROUP INC. TEMPLATE (BETA\_STANDARD\_TEMPLATE - 1.0.025A) CIVIL\_3D (CIVIL\_3D\_025A) PLOTSTYLE (BETA\_STB.BW.STB) USER(KYUEN)  
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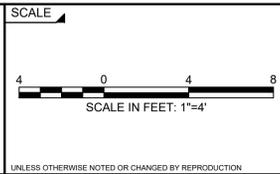
NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:  
 CM  
 DESIGNED BY:  
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 CHECKED BY:  
 DJ

REGISTERED PROFESSIONAL  
 PREPARED BY

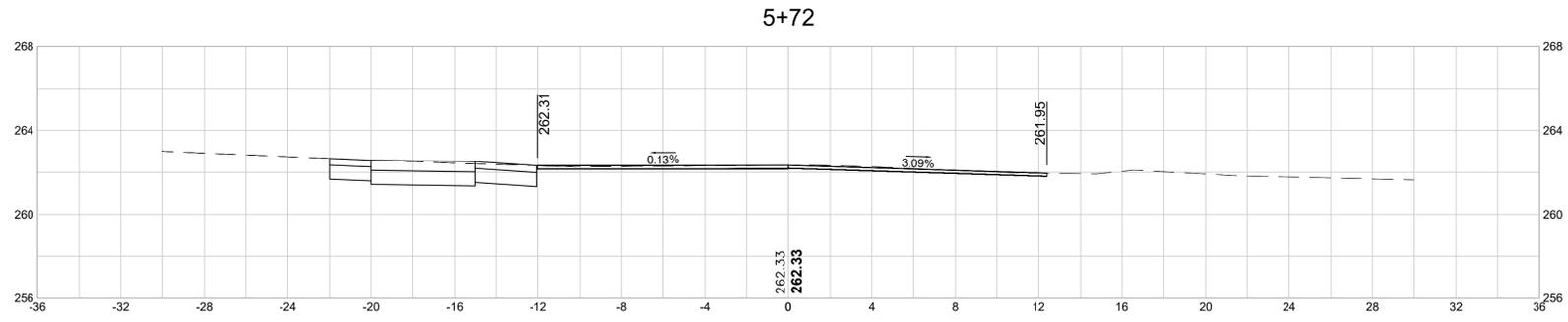
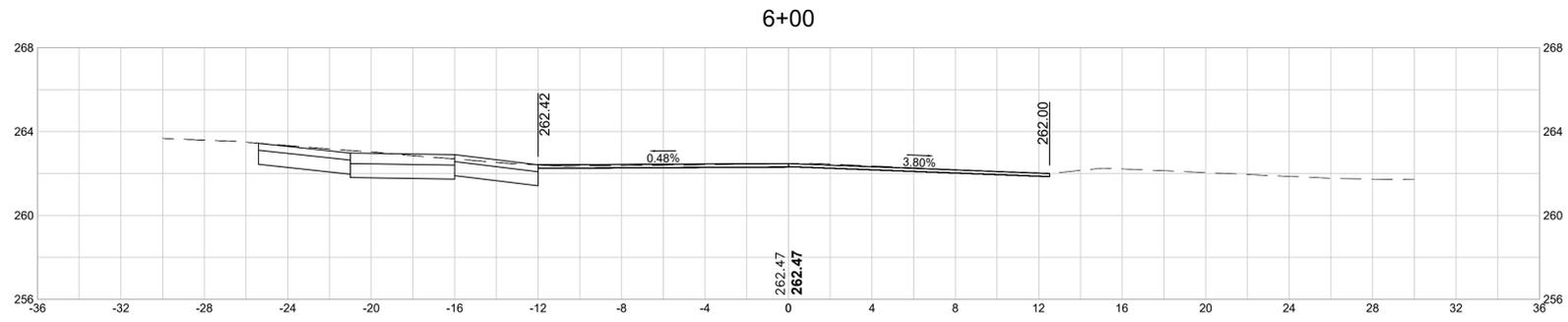
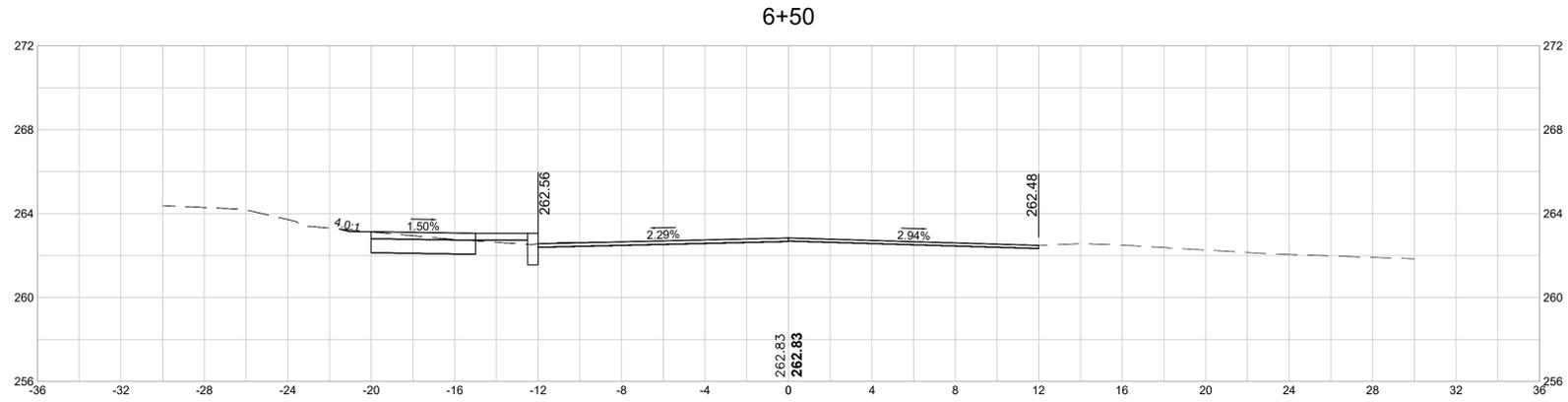
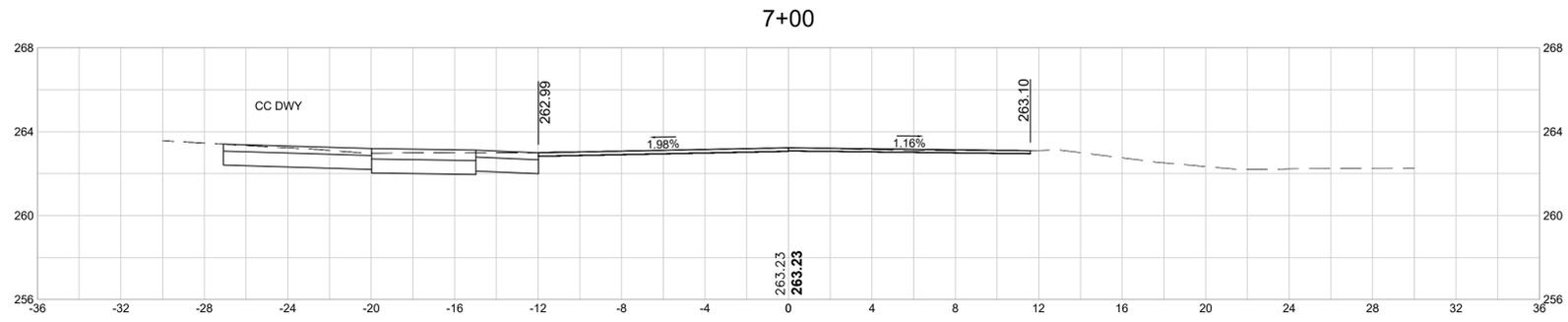


SUBCONSULTANT



**TITLE**  
**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - STONY HILL  
 ROAD  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 41 OF 46



2/11/2025 11:50 AM C:\114005\11463 - WILBRAHAM, MA - STONY RD INTERSECTION\DRAWING FILES\XREFS\11463\_XSECTION.DWG (BETA-STB-BW-STB) USER(KYUEN)

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

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CM

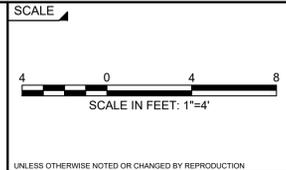
DESIGNED BY:  
KL

CHECKED BY:  
DJ

REGISTERED PROFESSIONAL



SUBCONSULTANT



TITLE

**SPRINGFIELD STREET AT STONY HILL ROAD  
INTERSECTION & SIDEWALK IMPROVEMENTS**

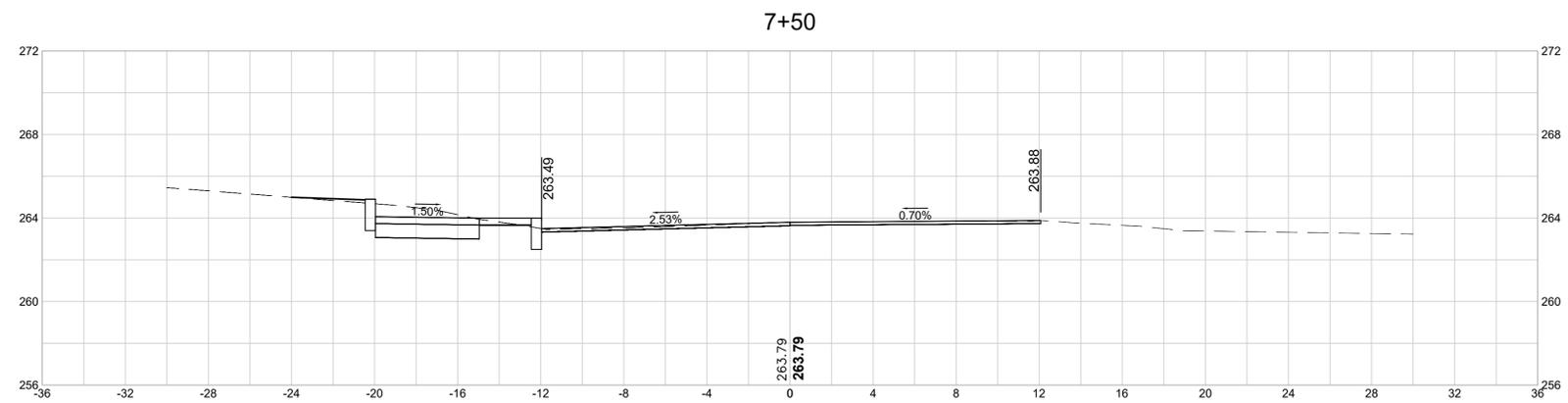
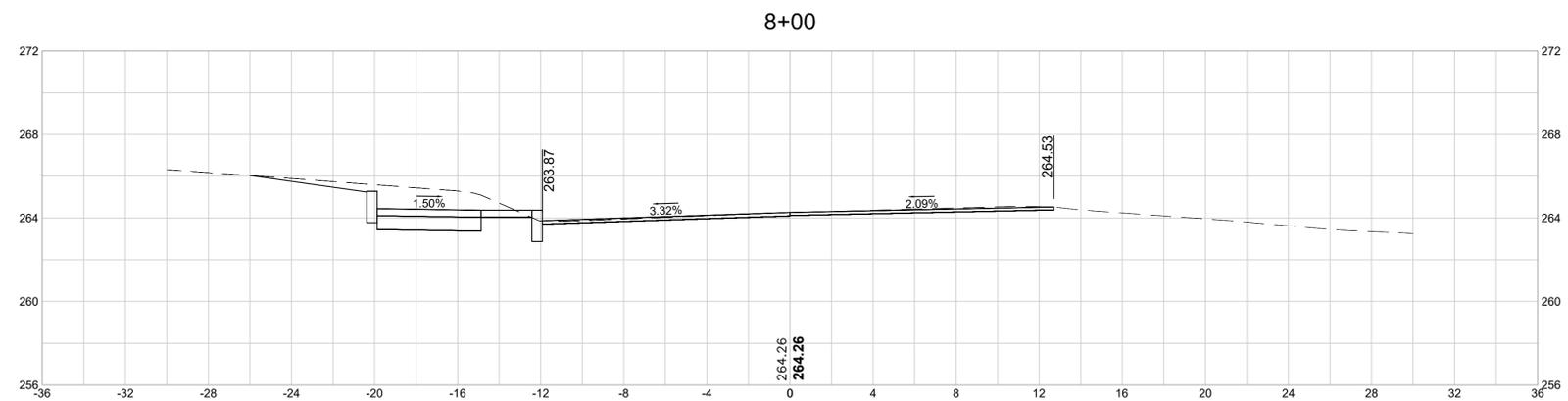
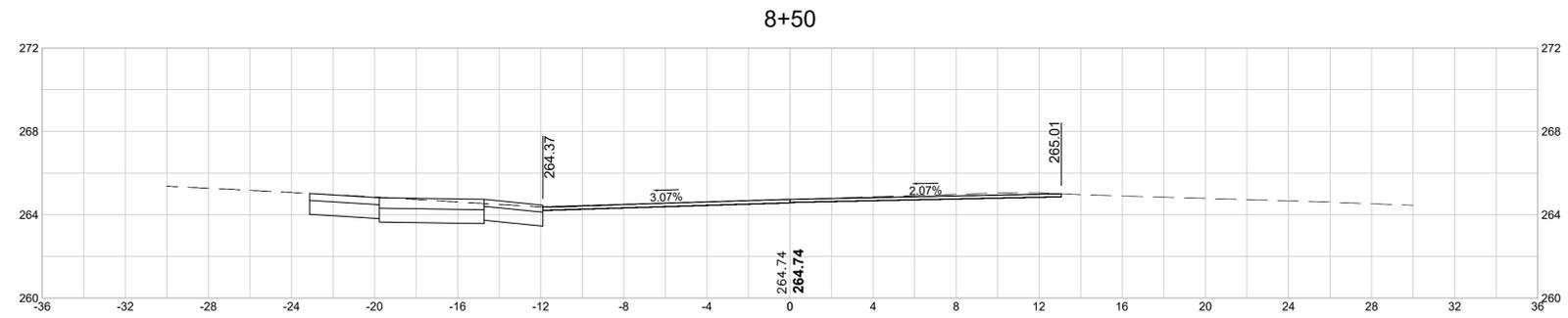
CROSS SECTIONS - STONY HILL  
ROAD  
WILBRAHAM, MA

BETA JOB NO. 11463

ISSUE DATE 01/26/2025

SHEET NO. 42 OF 46

BETA GROUP, INC. TEMPLATE (BETA\_STANDARD\_TEMPLATE\_1.0.dwg) CIVIL\_3D (CIVIL\_3D\_002A) PLOTSTYLE (BETA\_STB.BW) (STB) USER(KYUEN)  
 2/11/2028 11:50 AM C:\1140051\1463 - WILBRAHAM, MA - STONY RD INTERSECTION\DRAWING FILES\XREFS\1463\_XSECTION.DWG (BETA\_STB.BW) (STB)



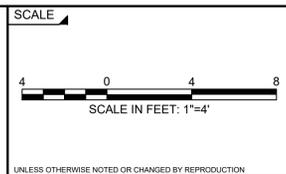
NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:  
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 DESIGNED BY:  
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 CHECKED BY:  
 DJ

REGISTERED PROFESSIONAL  
 PREPARED BY



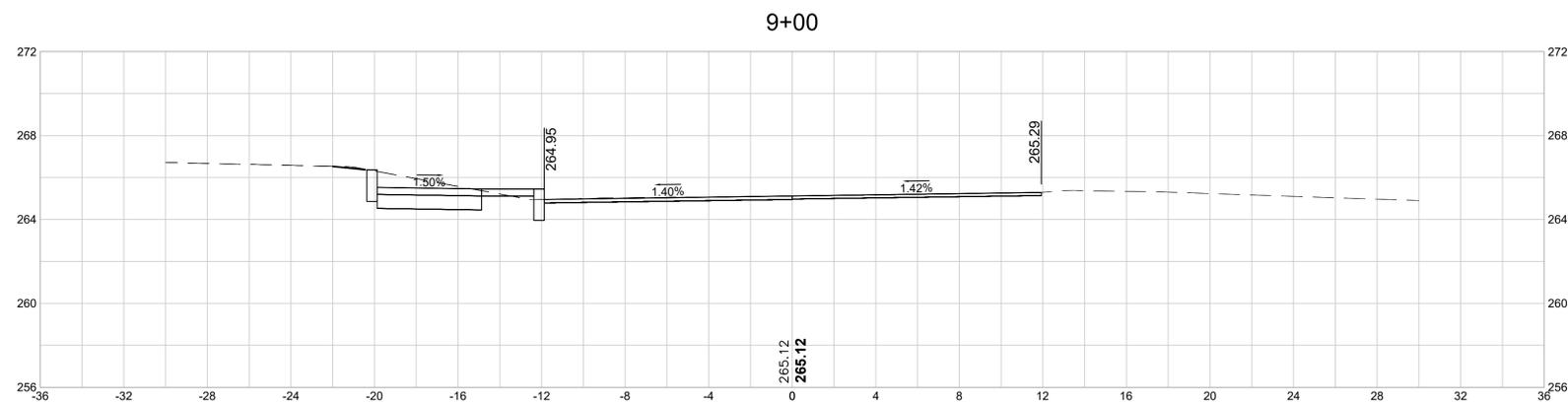
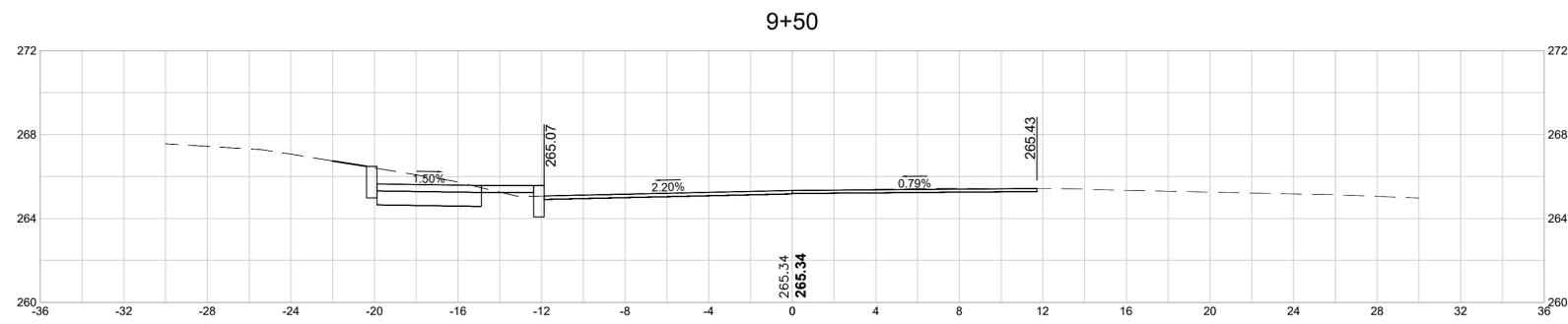
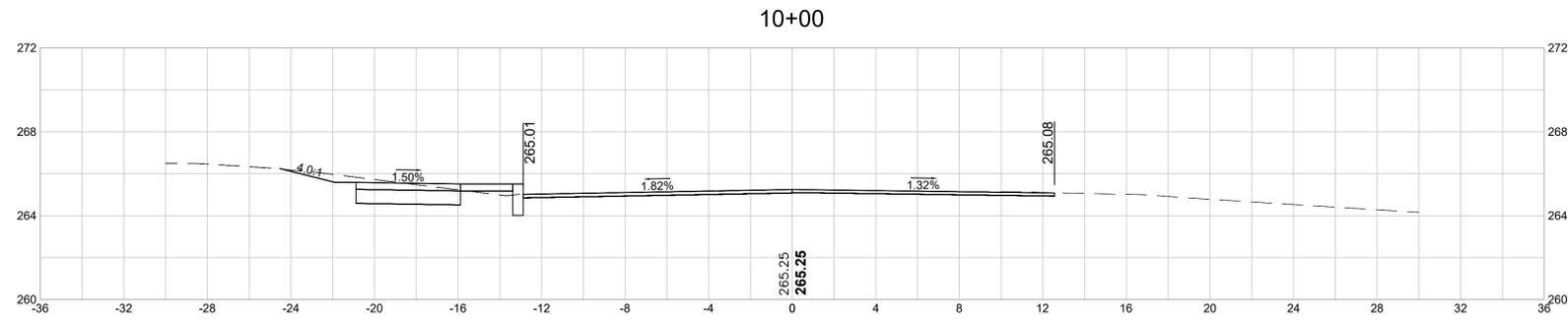
SUBCONSULTANT



**TITLE**  
**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - STONY HILL  
 ROAD  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 43 OF 46

BETA GROUP INC. TEMPLATE (BETA\_STANDARD\_TEMPLATE - 1.0.025A) CIVIL\_3D (CIVIL\_3D.025A) PLOTSTYLE (BETA\_STB.BW(STB)) USER(KYUEN)  
 2/11/2025 11:50 AM C:\114005\11463 - WILBRAHAM, MA - STONY RD INTERSECTION\DRAWING FILES\REFS\11463\_XSECTION.DWG (BETA\_STB.BW(STB))



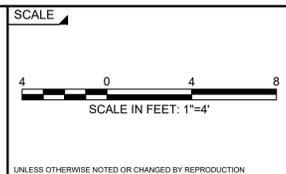
NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:  
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 CHECKED BY:  
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REGISTERED PROFESSIONAL  
 PREPARED BY



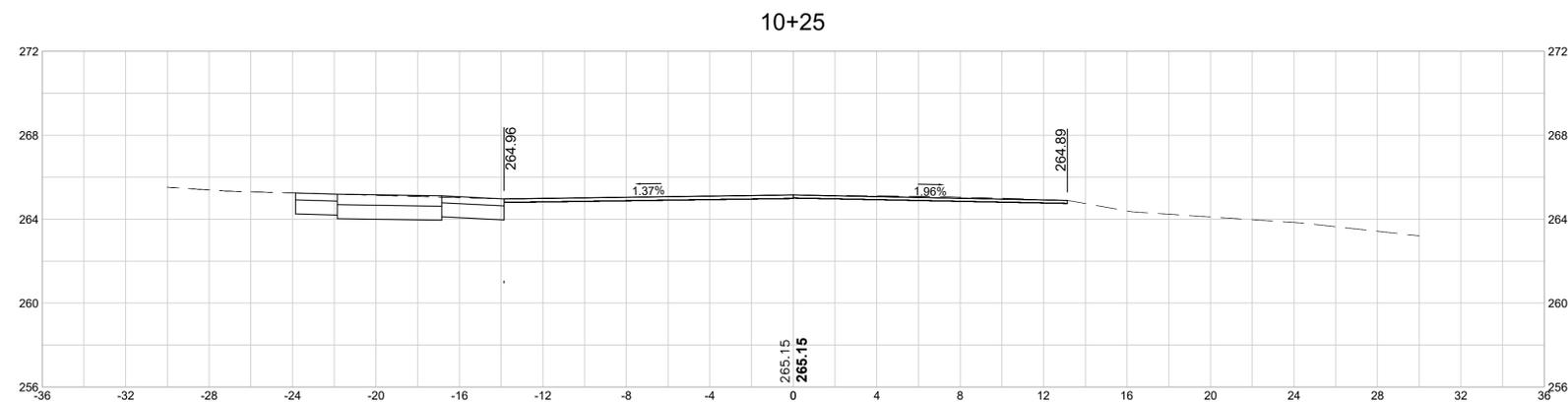
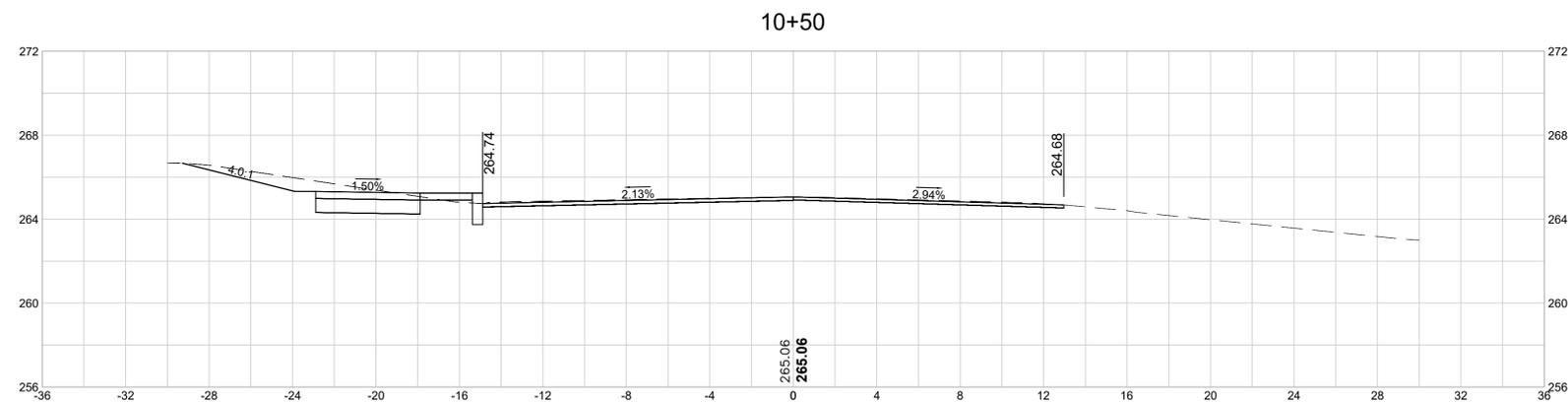
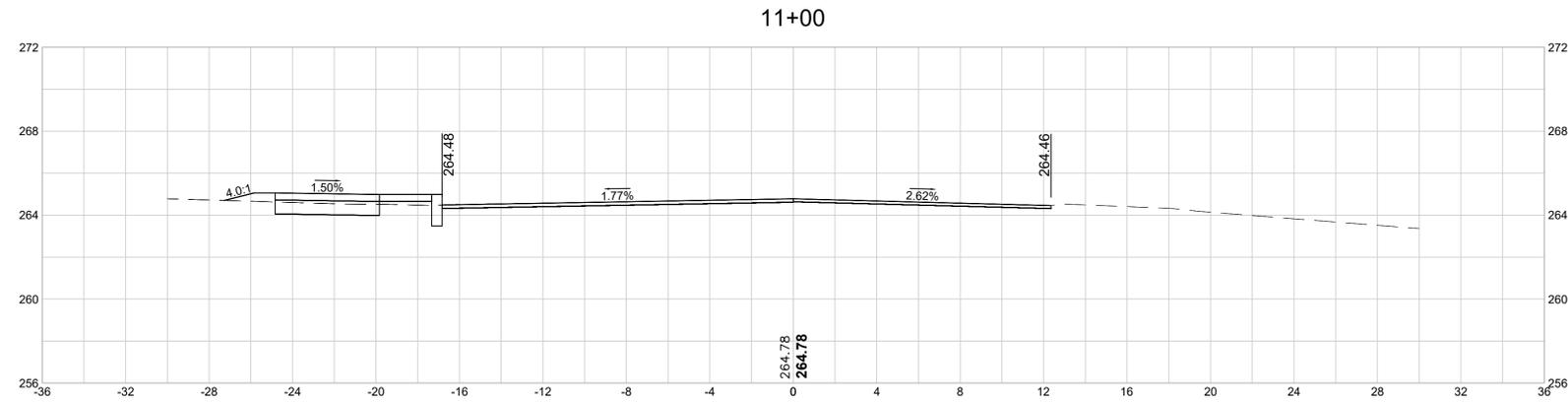
SUBCONSULTANT



**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - STONY HILL  
 ROAD  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 44 OF 46

BETA GROUP, INC. TEMPLATE (BETA\_STANDARD\_TEMP).DWT - 1.0.000(A) CIVIL\_00 (CIVIL\_00.000(A) PLOTSTYLE (BETA\_STB.BW.STB) USER(KYUEN)  
 2/11/2028 11:50 AM C:\11400S\11463 - WILBRAHAM, MA - STONY RD INTERSECTION\DRAWING FILES\XREFS\11463\_XSECTION.DWG (BETA\_STB.BW.STB)



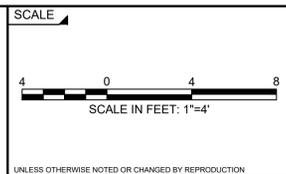
NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:  
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 DESIGNED BY:  
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 CHECKED BY:  
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REGISTERED PROFESSIONAL  
 PREPARED BY



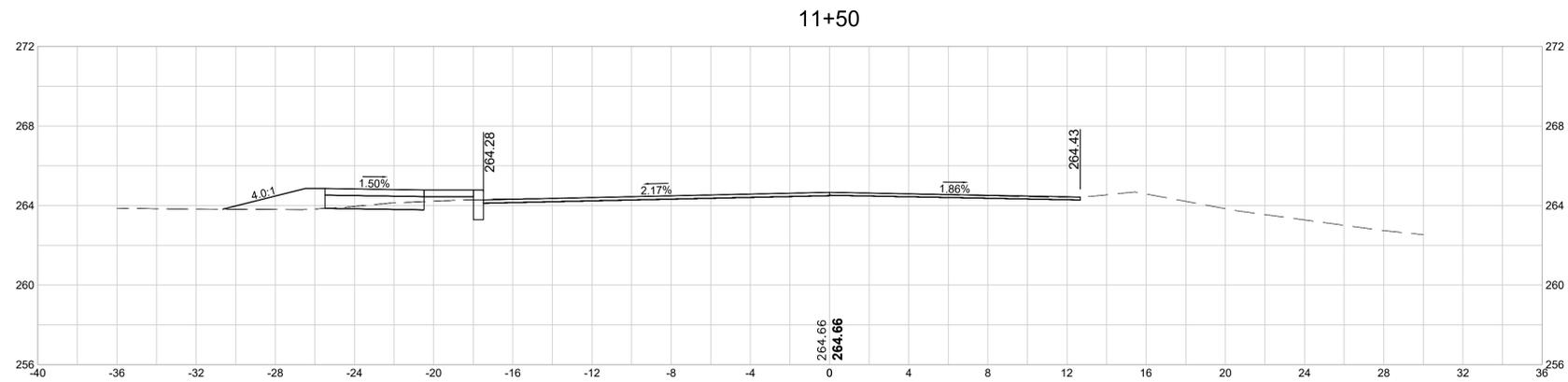
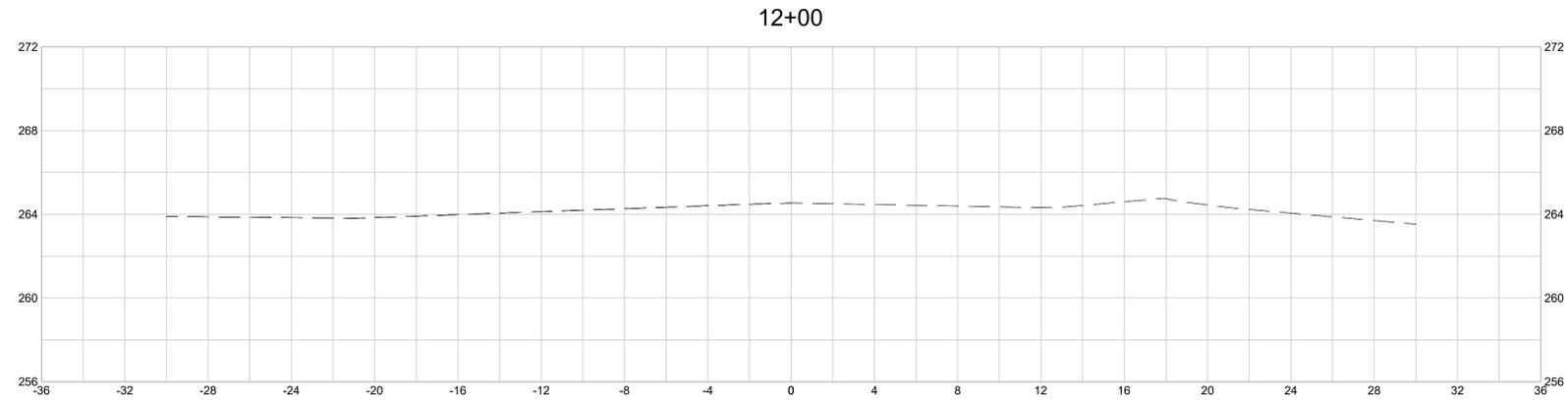
SUBCONSULTANT



**TITLE**  
**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - STONY HILL  
 ROAD  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 45 OF 46

BETA GROUP INC. TEMPLATE (BETA\_STANDARD\_TEMP).DWT - 1.0.025A | CIVIL\_3D\_025A | PLOTSTYLE (BETA\_STB.BW.DWG) USER(KYUEN)  
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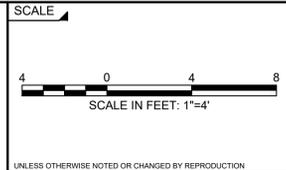
NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:  
 CM  
 DESIGNED BY:  
 KL  
 CHECKED BY:  
 DJ

REGISTERED PROFESSIONAL  
 PREPARED BY



SUBCONSULTANT



**TITLE**  
**SPRINGFIELD STREET AT STONY HILL ROAD**  
**INTERSECTION & SIDEWALK IMPROVEMENTS**  
 CROSS SECTIONS - STONY HILL  
 ROAD  
 WILBRAHAM, MA

BETA JOB NO. 11463  
 ISSUE DATE 01/26/2025  
 SHEET NO. 46 OF 46