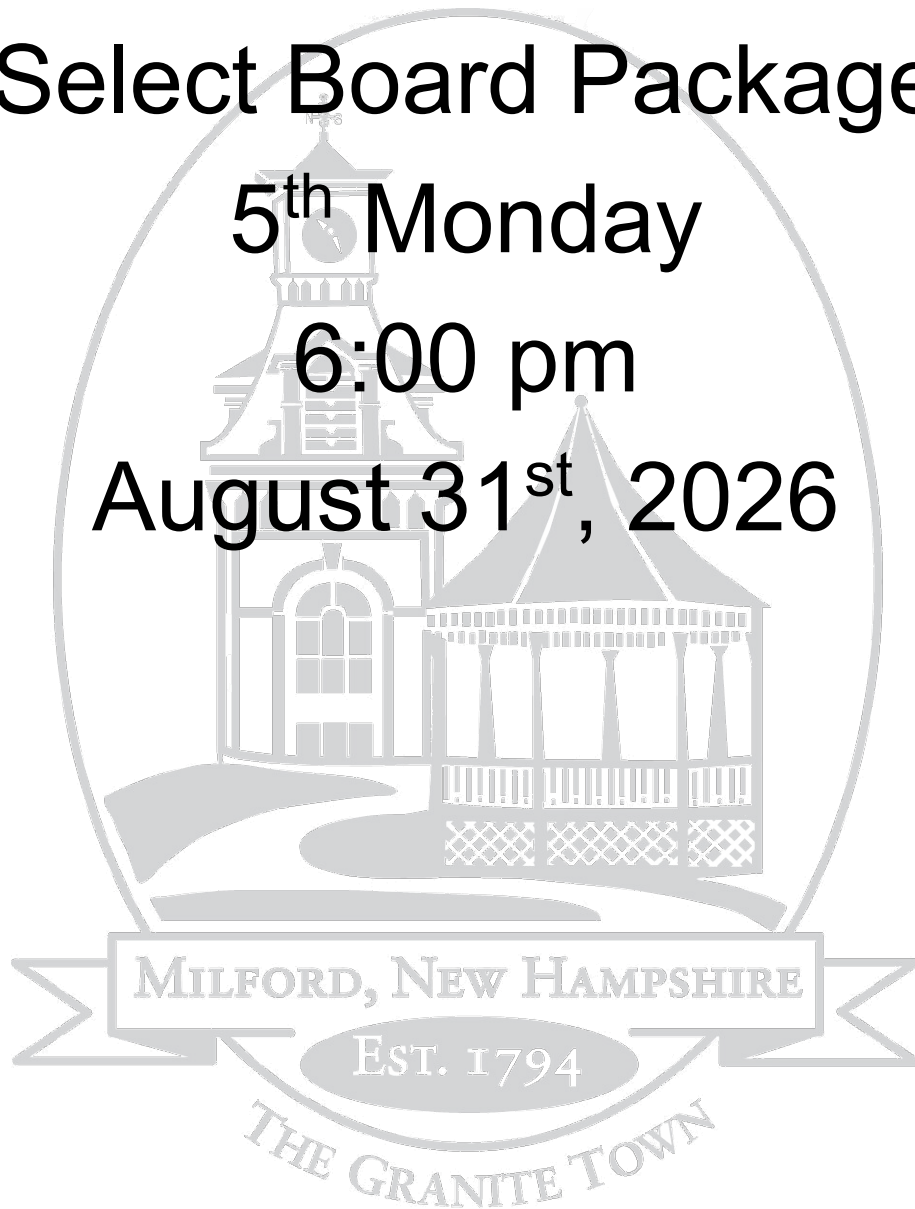


Select Board Package

5th Monday

6:00 pm

August 31st, 2026





1

Existing Structure



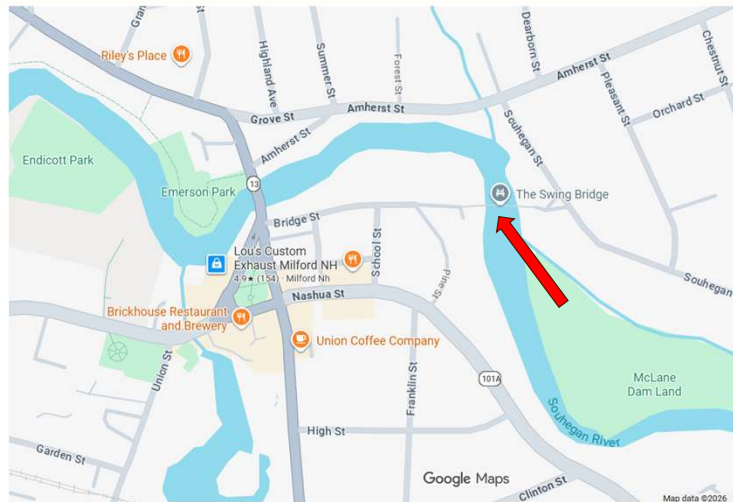
- 200-foot Pedestrian Suspension Bridge
- Constructed in 1889 and rehabilitated in the 1960's
- Spans the Souhegan River
- Goal of Project is to preserve the walking connection between the east and west side of the Souhegan River



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2

Existing Structure Location



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3

Town project funded through NHDOT LPA



- LPA = NHDOT's Local Public Agency program to assist municipalities in managing and funding transportation projects
- NHDOT Project #41587
- Engineering Contracted to Hoyle Tanner & Associates
- Partial Notice to Proceed issued 4/29/26 (anticipate full NTP early September 2026)
- New Hampshire DOT Project Manager: Kevin Russel, P.E.
- Hoyle Tanner Project Manager: William Ashford, P.E.
- Milford Contacts: Kyle Finnell, Nicole Crawford & Leo Lessard

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4

“Recent” Events



- In-depth Inspection of bridge in 2015 showed the need for repairs
- Bridge added to the National Register of Historic Places in July 2017
- Intention of the project is Rehabilitation of the pedestrian Swing Bridge over the Souhegan River, with the public's input on project direction and outcome



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5

Hoyle Tanner contract with NHDOT to support the Town of Milford



Hoyle Tanner's scope includes assistance through the Design Process

- First Step - Engineering Study - ongoing with anticipated completion by end of 2026
 - Goal of investigating a reasonable range of alternatives to determine the proposed further action
 - Bridge reinspected in June 2026 and results being analyzed to guide repair recommendations
 - First Public Concerns meeting – This meeting
 - Develop a Purpose and Need Statement to identify the project's goals
 - Initial look at environmental and ROW concerns
 - End Result of the Engineering Study Report is the presentation of findings to the public with updated cost projections

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6

Local Concerns Meeting(s)



Beginning of the Public Outreach Process

- To provide general overview of project
- To introduce the proposed project schedule
- To capture potential issues to be addressed
- To provide public an avenue to comment on the proposed project

Additional Meetings to be held as project progresses.

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7

Further Steps in the process



- Design, Permitting, ROW
 - Preliminary design (1st half 2027)
 - Public participation process (on going throughout)
 - Support ROW process (early reach out, with finalization as project impacts are quantified)
 - NEPA documentation (early 2027, coinciding with Preliminary Design)
 - Final design (2nd half of 2027)
 - Engineering anticipated to be a 20+/- month process
- Advertising for Construction (late 2027/early 2028)
- Construction anticipated 2028

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8

DATE: August 28, 2026
TO: Gary Daniels, Chair, Milford Board of Selectmen
Lori Radke, Town Administrator
FROM: W. Kyle Finnell, Community Development Director
RE: Update on the Oval Improvements Project (NH DOT #42470)

BACKGROUND:

The Oval Improvements Project, NH DOT Project #42470, is concluding the Preliminary Engineering phase. Engineering consultants, VHB, have prepared and distributed their Final Preliminary Plans, and associated Cost Estimates, for Town and NH DOT review.

The Project as currently designed includes three key elements: (1) traffic and pedestrian improvements for the Downtown and Oval, including Middle Street and Nashua Street to School Street; (2) expanding the parking lot at the Wadleigh Memorial Library; and (3) construction of the parking lot at the corner of Clinton and South Streets.

NH DOT has yet to share comments from their official review of the Final Preliminary Plans, which were expected earlier this month. The next Project Team meeting is scheduled for Tuesday, September 1, and Town Staff expects receipt of those comments at that time. Upon receipt, Staff will directly distribute NH DOT comments and any additional guidance to the Board.

COST AND FUNDING:

The Final Preliminary Plans were delivered with three Cost Estimations for the construction of key elements of the Project. The Downtown Oval estimate equals \$2,305,000, the Library Parking Lot equals \$846,000, and the Clinton/South Street Lot equals \$343,000. Total construction costs are currently estimated to equal \$3,494,000.

Funding for this Project was amended in June of 2026 to reflect an increase of construction funding equal to \$343,000 for the Clinton/South Street parking lot, increasing the original funding for construction from \$1,731,500 to \$2,074,500. There was no adjustment to the funding and cost of the Preliminary Engineering (PE) phase and the Right-of-Way (ROW) phase, equaling \$378,448 and \$90,000 respectively. The adjustment to construction funding brought the total project funding cap to \$2,542,948.

The difference between available funding for the project and the current estimated costs equals \$1,419,500.

RECOMMENDATION:

Given the significant difference between the cost estimations based on the Final Preliminary Plans and the Project Funding Cap set by NH DOT, the Town must decide whether to advance the project in full as designed and programmed, or otherwise to explore removing elements of the project to reduce costs and more closely align with the available funding cap. Without the comments from NH DOT's review of the preliminary plans, Town Staff cannot identify elements that will be required to remain and what possibly could be amended and/or omitted.

At this time Town Staff recommends that the Board review the Final Preliminary Plans and associated Cost Estimates in preparation of receipt of NH DOT's review comments.

Furthermore, given the scope and impact of this project, Town Staff recommends that the Select Board consult with the Planning Board and other Town bodies to prioritize the essential elements of the project and determine how best to move forward with the construction of those priority improvements.

RECOMMENDED MOTION:

I MOVE THAT THE SELECT BOARD coordinate with the Planning Board to convene a joint meeting following the delivery of NH DOT's Review Comments to discuss Town priorities and next steps for the Oval Improvements Project.

EXHIBITS:

- Milford Oval Pedestrian & Traffic Improvements Project Preliminary Plans
- Preliminary Cost Estimate – Downtown Oval
- Preliminary Cost Estimate – Library Parking Lot
- Preliminary Cost Estimate – Clinton/South Street Lot
- Preliminary ROW Plans
- Summary Oval Plan in Color
- Oval Lighting Plan in Color

REVISIONS: AFTER PROPOSAL

DESCRIPTION

STATION

STATION

DATE

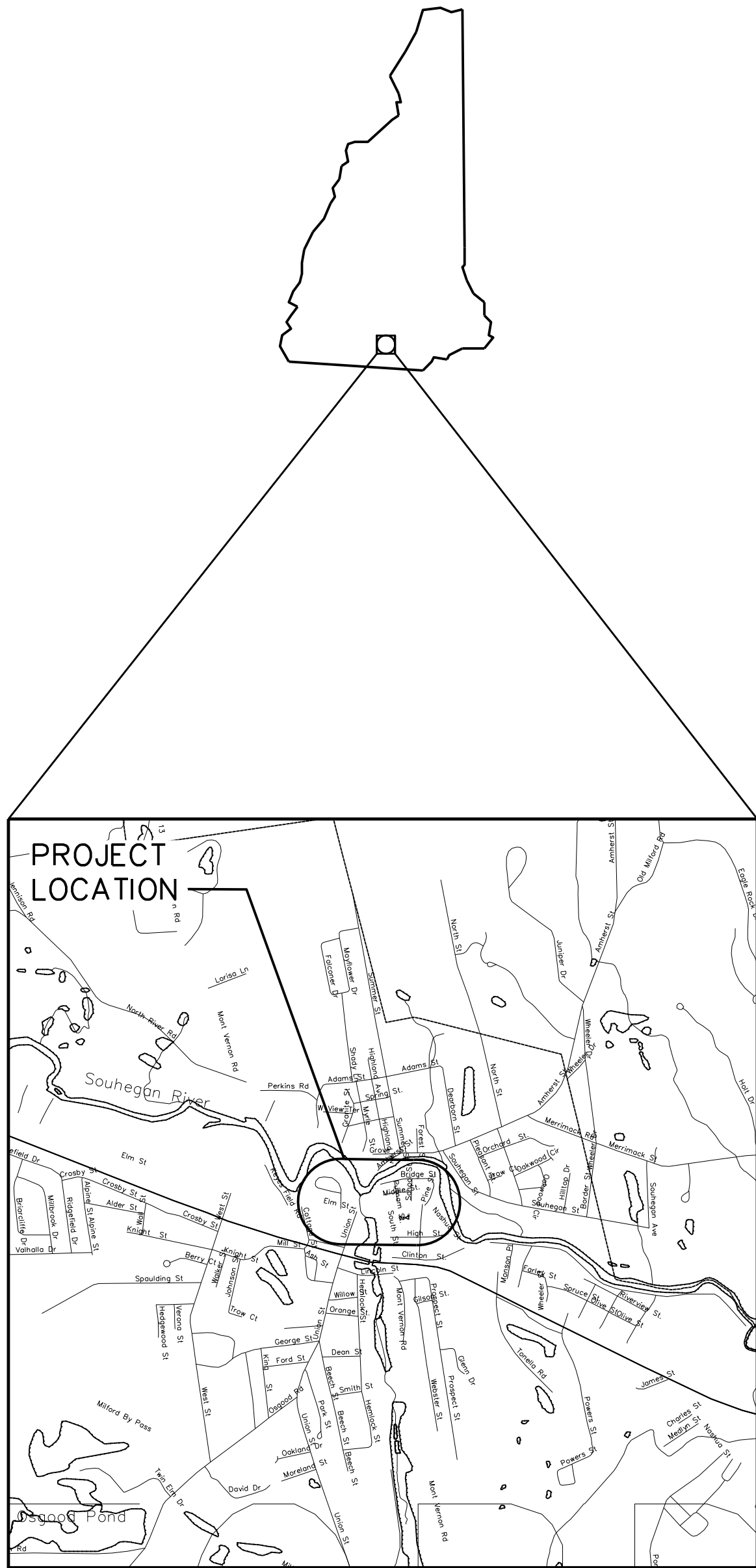
NUMBER

DATE

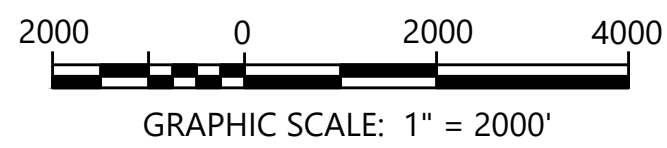
DATE

DATE

SDR PROCESSED
NEW DESIGN
SHEET CHECKED
AS BUILT DETAILS



LOCATION MAP



TOWN OF MILFORD SELECTBOARD

GARY DANIELS, CHAIR
DAVE FREEL, VICE CHAIR
PAUL DARGIE, MEMBER
CHRIS LABONTE, MEMBER
TINA PHILBRICK, MEMBER

TOWN ADMINISTRATOR

MIKE VIOLA (INTERIM)

DIRECTOR OF PUBLIC WORKS AND ENGINEERING

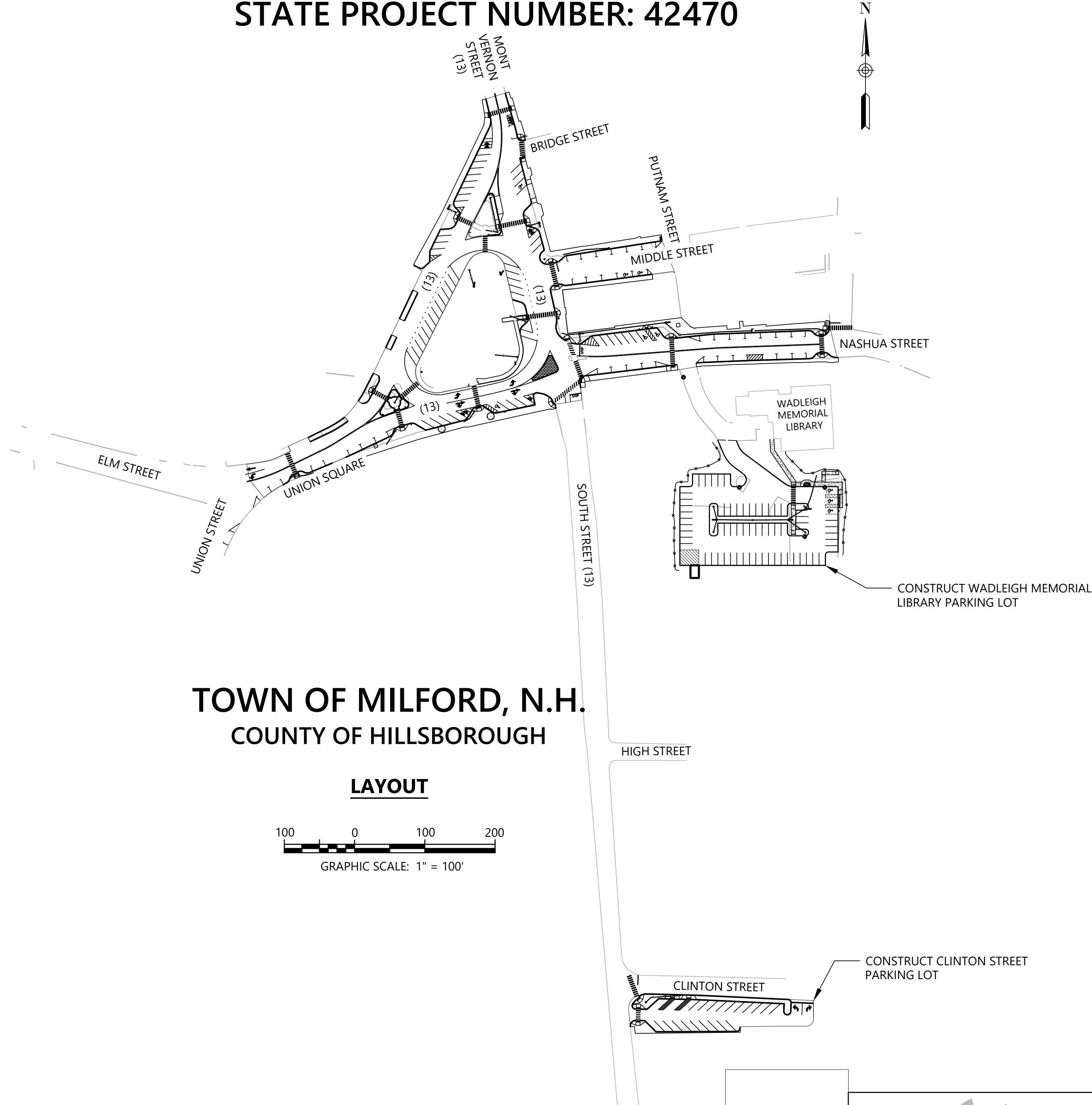
LEO LESSARD, DIRECTOR

TOWN ENGINEER

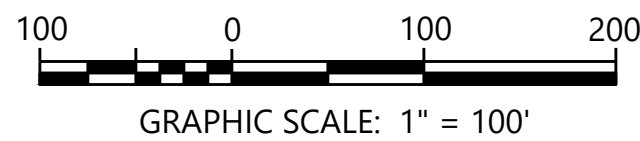
NICOLE CRAWFORD

TOWN OF MILFORD, N.H.
COUNTY OF HILLSBOROUGH

MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS PROJECT
PRELIMINARY PLANS
FEDERAL PROJECT NUMBER: X-A000(864)
STATE PROJECT NUMBER: 42470



LAYOUT



PRELIMINARY PLANS
JUNE 8, 2026

MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS

TOWN OF MILFORD, NEW HAMPSHIRE

COVER SHEET



DATE PLOTTED
6/1/2026

VHB PROJECT NO.
52852.00

DRAWING
52852_COV.dwg

STATE PROJECT NO.
42470

SHEET NO.
1

TOTAL SHEETS
24

REVISIONS AFTER PROPOSAL				
NUMBER	DATE	STATION	STATION	DESCRIPTION

EXISTING	PROPOSED	
		RIGHT-OF-WAY
		PROPERTY LINE
		ALIGNMENT
		VERTICAL GRANITE CURB
		SIDEWALK
		EDGE OF BRICK
		IMPRINTED PAVEMENT
		EDGE OF PAVEMENT
		SAWCUT
		BUILDING
		BUILDING ENTRANCE WITH ELEVATION
		WALL
		STOCKADE/CHAIN LINK FENCE
		METAL FENCE
		HANDRAIL
		MAJOR CONTOUR
		MINOR CONTOUR
		TREE
		SHRUB
		TREELINE
		SIGN
		SIGNAL BEACON
		SINGLE SOLID LINE
		DOUBLE SOLID LINE (YELLOW)
		STOP LINE
		CROSSWALK
		GROUND LIGHT
		LIGHT POLE
		UTILITY POLE
		UTILITY POLE WITH LIGHT
		OVERHEAD WIRE
		TELEPHONE MANHOLE
		TELEPHONE LINE
		CABLE/INTERNET LINE
		WATER GATE VALVE
		WATER SHUTOFF VALVE
		HYDRANT
		WATER
		SEWER MANHOLE
		SEWER
		DRAIN MANHOLE
		CATCH BASIN
		DRAIN
		DRY WELL
		FOUNTAIN
		STAIR CASE
		HAND HOLE
		ELECTRIC
		BOLLARD
		FLAG POLE

EXISTING	PROPOSED	
		ELECTRIC METER
		DETECTABLE WARNING PANEL
		SILTSACK SEDIMENT TRAP
		SILTSOCK EROSION CONTROL BARRIER

GENERAL ABBREVIATIONS

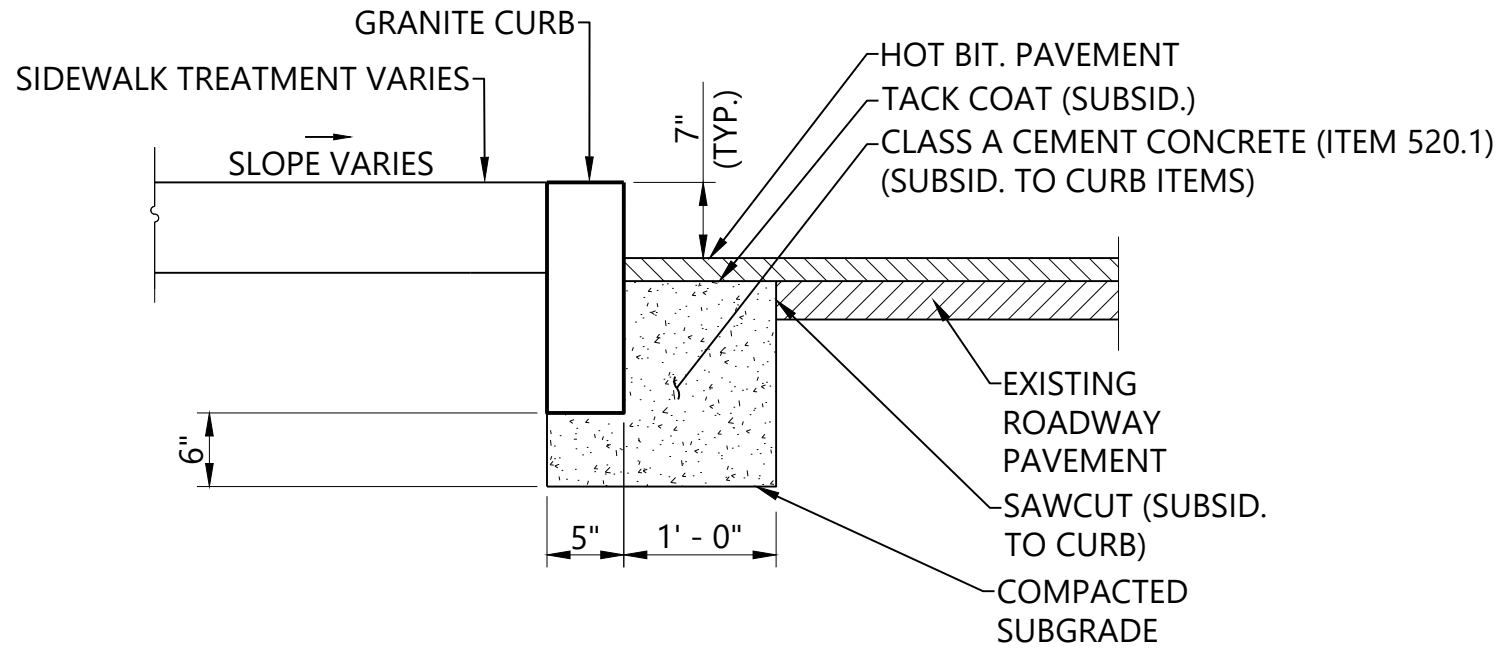
ABAN	ABANDON
ACR	ACCESSIBLE CURB RAMP
AD	ALGEBRAIC DIFFERENCE IN GRADE
ADJ	ADJUST
APPROX	APPROXIMATE
BIT	BITUMINOUS
BOW	BACK OF WALK
CONC	CONCRETE
DYL	DOUBLE YELLOW LINE
EL	ELEVATION
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EXIST	EXISTING
FEE	FINISHED FLOOR ELEVATION
GRAN	GRANITE
GTD	GRADE TO DRAIN
HP	HIGH POINT
K	RATE OF VERTICAL CURVATURE
L	LEFT
LSA	LANDSCAPE AREA
LOD	LIMIT OF DISTURBANCE
MAX	MAXIMUM
MCC	MONOLITHIC CONCRETE CURB
MIN	MINIMUM
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PERF	PERFORATED
PGL	PROPOSED GRADE LINE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PRC	POINT OF REVERSE CURVATURE
PROP	PROPOSED
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	REMOVE/RIGHT
RET	RETAIN
R&D	REMOVE AND DISPOSE
ROW	RIGHT OF WAY
R&R	REMOVE AND RESET
SL	STOP LINE
SGC	SLOPED GRANITE CURB
SSD	STOPPING SIGHT DISTANCE
STA	STATION
SWL	SINGLE WHITE LINE
T	THERMOPLASTIC/TON
TS	TOP OF SLOPE
TW	TRAVEL WAY
TYP	TYPICAL
VAR	VARIES
VC	VERTICAL CURVE
VGC	VERTICAL GRANITE CURB
XW	CROSSWALK

UTILITY ABBREVIATIONS

CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
DCB	DOUBLE CATCH BASIN
DI	DROP INLET
DMH	DRAIN MANHOLE
CIP	CAST IRON PIPE
COND	CONDUIT
DIP	DUCTILE IRON PIPE
FES	FLARED END SECTION
FM	FORCE MAIN
F&G	FRAME AND GRATE
F&C	FRAME AND COVER
GI	GUTTER INLET
GT	GREASE TRAP
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HH	HANDHOLE
HW	HEADWALL
HYD	HYDRANT
INV	INVERT ELEVATION
I=	INVERT ELEVATION
LP	LIGHT POLE
MES	METAL END SECTION
PWW	PAVED WATER WAY
PVC	POLYVINYLCHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
R=	RIM ELEVATION
SMH	SEWER MANHOLE
TSV	TAPPING SLEEVE, VALVE AND BOX
UG	UNDERGROUND
UP	UTILITY POLE

		WEST LEBANON MAIN ST IMPROVEMENTS			
		CITY OF LEBANON, NEW HAMPSHIRE			
		LEGEND			
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6/1/2026	52734.01	52852_LEGEND_NEW.dwg	42470	2	24

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SHEET CHECKED				
AS BUILT DETAILS				

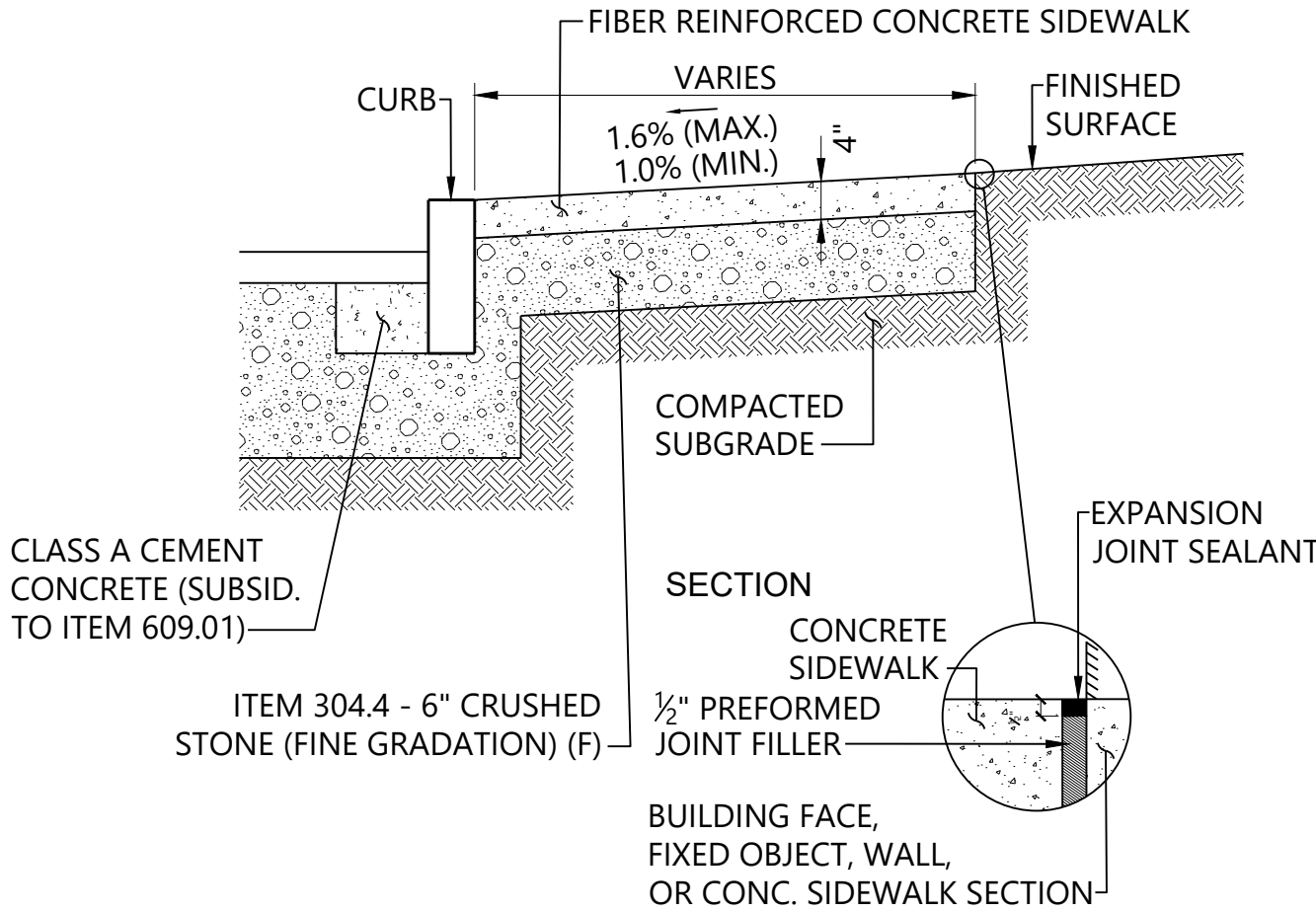


NOTES

1. APPLY TACK COAT TO CONCRETE BEDDING PRIOR TO PAVING OVER IT.

Curb Installation in Existing Pavement

N.T.S.

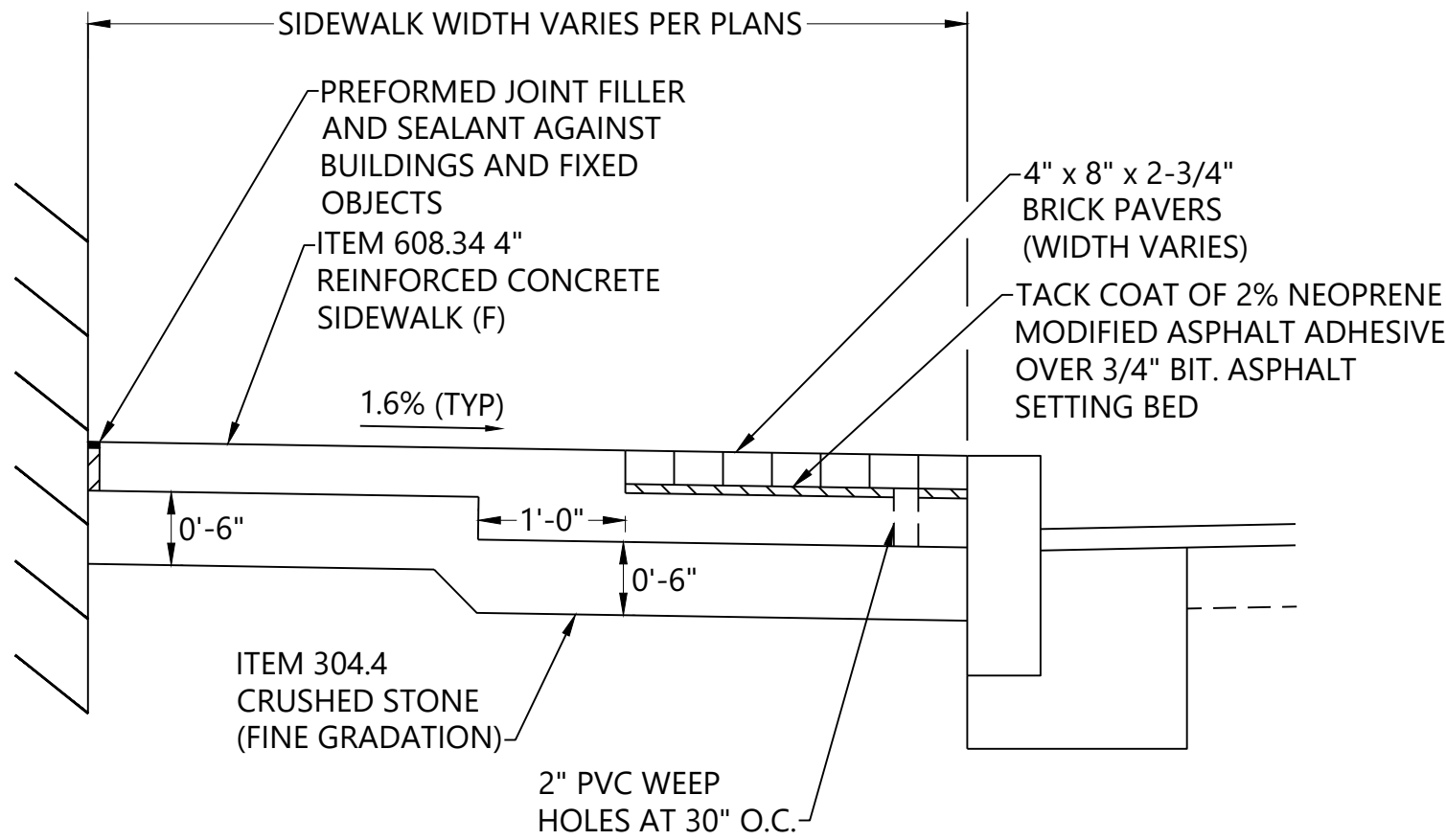


NOTES

1. PROVIDE EXPANSION JOINTS AT MIN. 25 FT. O.C. WITH PRE-FORMED JOINT FILLER.
2. PROVIDE SAWCUT CONTROL JOINTS. REFER TO LANDSCAPE DETAILS AND LAYOUT PLANS FOR ADDITIONAL GUIDANCE.
3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.
4. INSTALL 2-FOOT LONG #5 SMOOTH STEEL REBARS, GREASED, SPACED 2' APART AT ALL CONCRETE SIDEWALK CONSTRUCTION JOINTS (SUBSIDIARY TO SIDEWALK ITEM). SET BARS MID DEPTH IN CONCRETE.

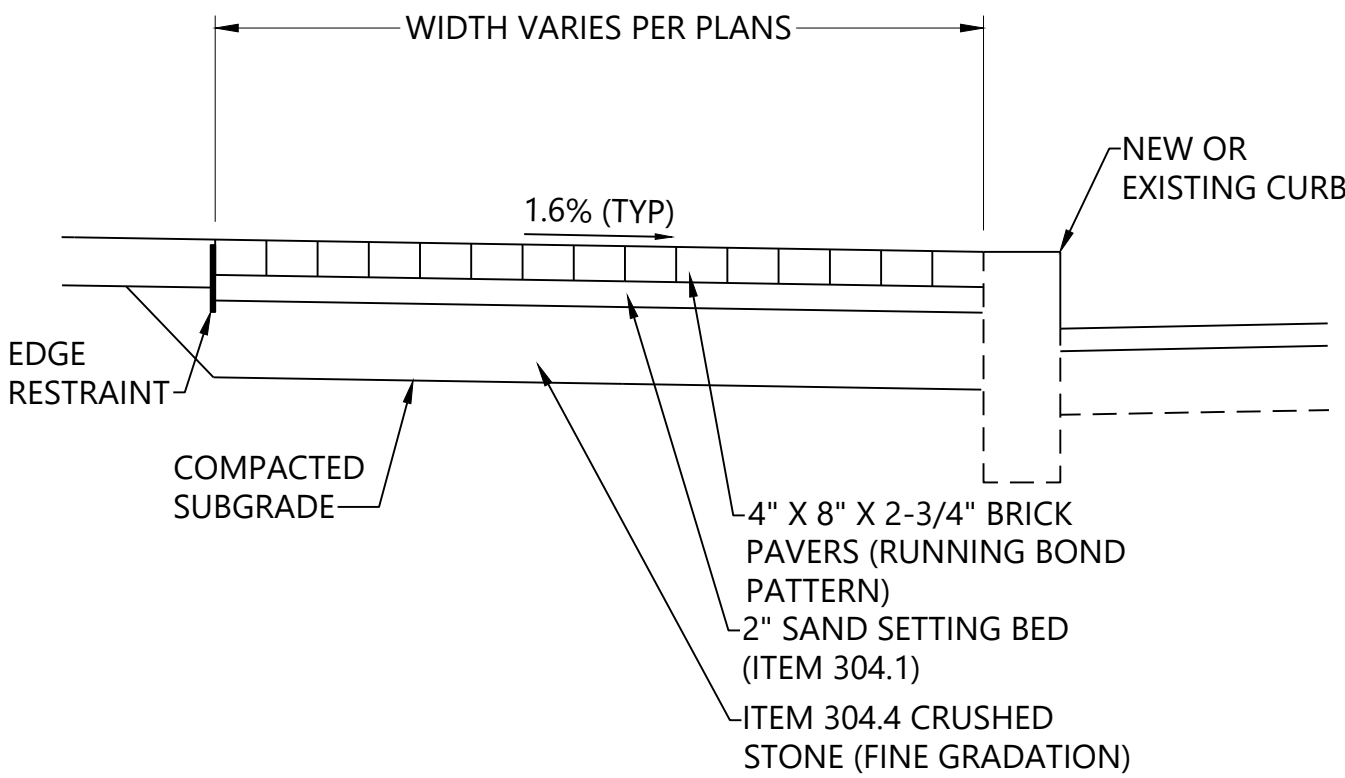
Item 608.3401 Reinforced Concrete Sidewalk

N.T.S.



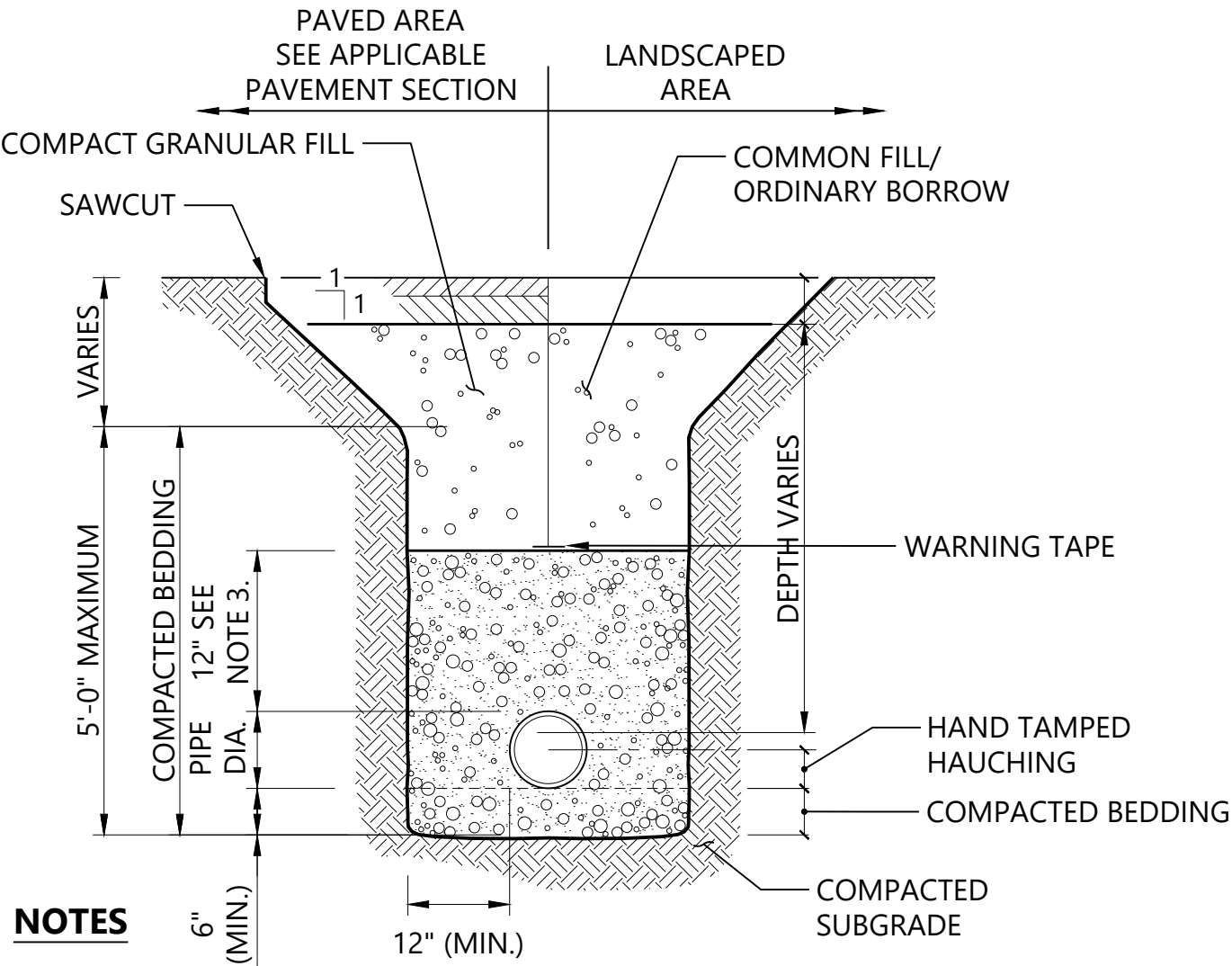
Reinforced Concrete Sidewalk with Brick Inlay

N.T.S.



Construct or Reset Brick Sidewalk

N.T.S.



NOTES

WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.

2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.
3. FOR HDPE PIPE, DIMENSION IS 24 INCHES.
4. MINIMUM COVER REQUIREMENTS:
A. WATER: 5-FT
C. DRAIN: AS SPECIFIED ON PLANS
5. EMBEDMENT MATERIALS:
A. WATER: GRAVEL (NHD0T 304.2-MODIFIED FOR 1-1/2 IN MAX. STONE SIZE)
C. DRAIN: GRAVEL (NHD0T 304.2-MODIFIED FOR 1-1/2 IN MAX. STONE SIZE)
6. BACKFILL MUST BE PLACED IN 12" LIFTS AND COMPACTED.

Trench

N.T.S.

PAVEMENT NOTES

MILFORD OVAL ROADWAYS

SURFACE PREPARATION:
1-1/2" (AND VARIES) ITEM 417. COLD PLANING BITUMINOUS SURFACES
ITEM 410.22 ASPHALT EMULSION FOR TACK COAT (0.05 GAL/SY)

SURFACE COURSE:
1-1/2" ITEM 403.11053 HBP-3/8" SURFACE MIX, MACHINE METHOD

WADLEIGH MEMORIAL LIBRARY AND CLINTON STREET PARKING LOT

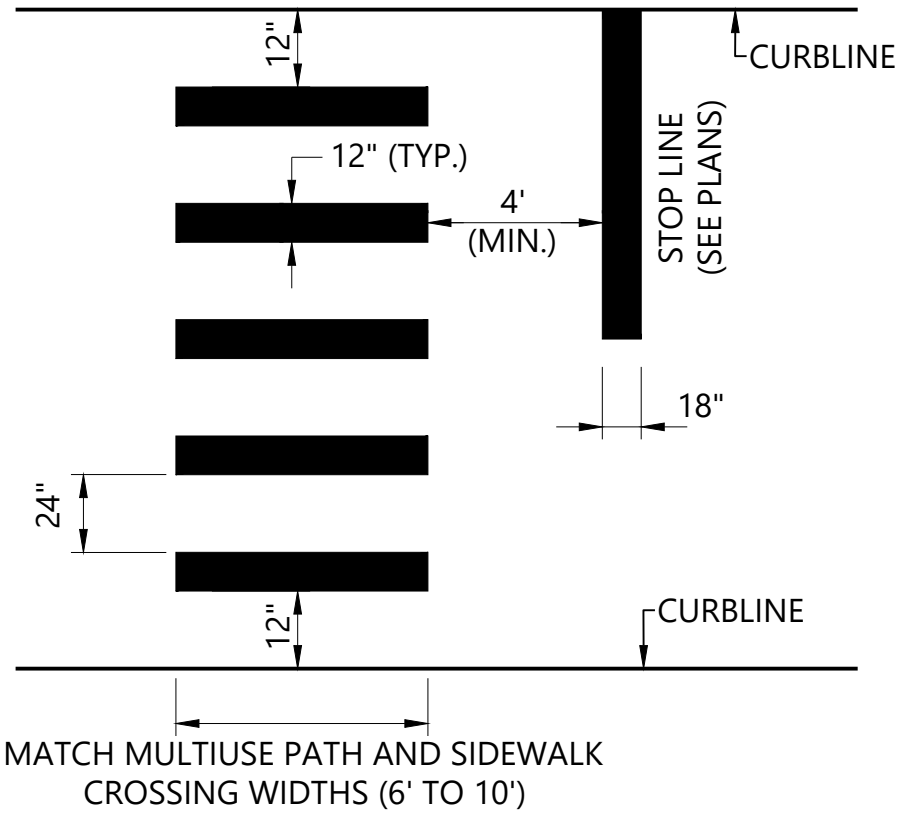
SURFACE COURSE:
1-1/2" ITEM 403.11053 HBP-3/8" SURFACE MIX, MACHINE METHOD

BINDER COURSE:
2-1/2" ITEM 403.11023 HBP-3/4 BINDER MIX, MACHINE METHOD

BASE COURSE:
12" ITEM 304.3 CRUSHED GRAVEL (F)

MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS					
TOWN OF MILFORD, NEW HAMPSHIRE					
ROADWAY DETAILS					
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6/1/2026	52852.00	52852_DET.dwg	42470	4	24

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	SHEET CHECKED			
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DATE	DATE	DATE	DATE	DATE

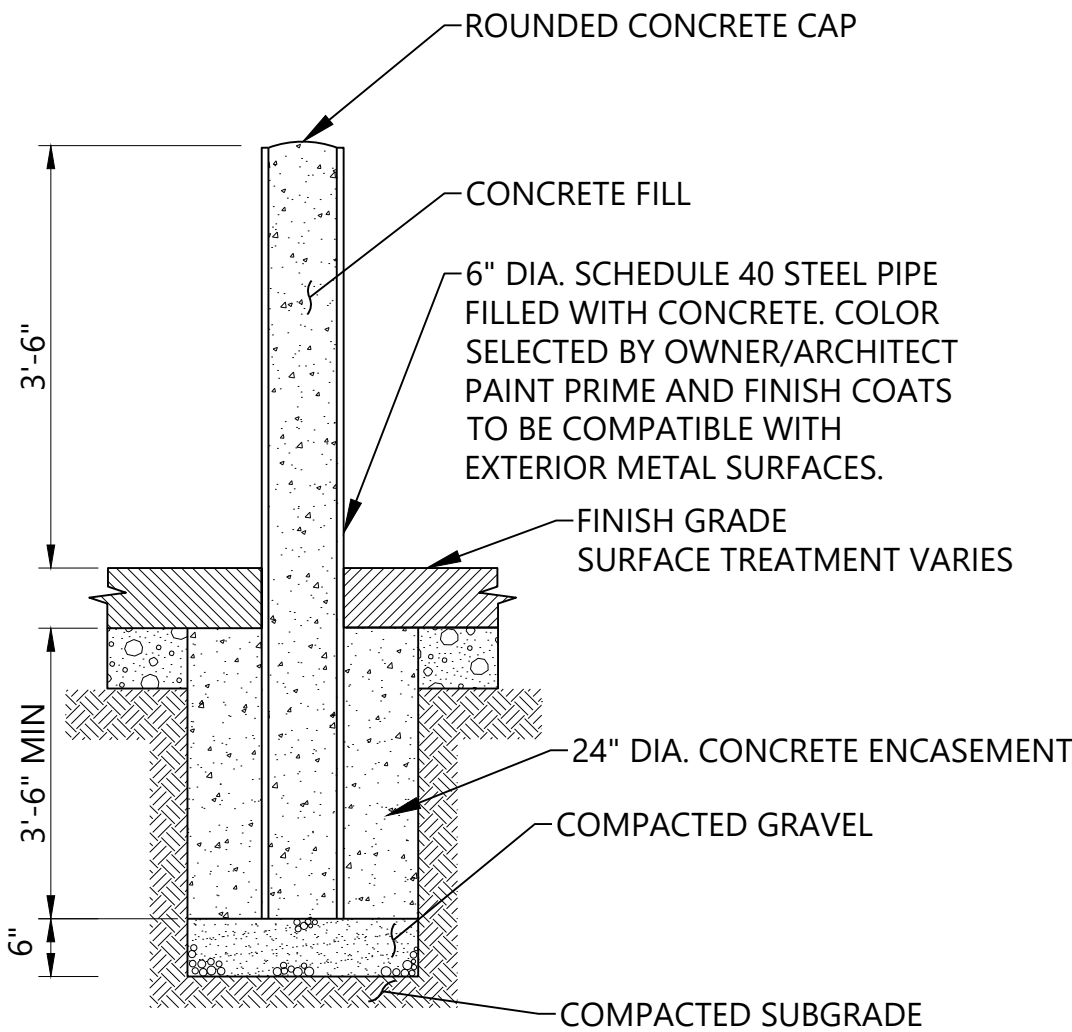


NOTES

1. TWELVE INCH (12") LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO - 6 INCH LINES) WILL BE ACCEPTED.
2. LONGITUDINAL CROSSWALK LINES SHALL BE PARALLEL TO TRAVEL LANES
3. ALL LONGITUDINAL CROSSWALK LINES TO BE THE SAME LENGTH AND PROPERLY ALIGNED.
4. AVOID PLACING LINES IN WHEEL PATHS.

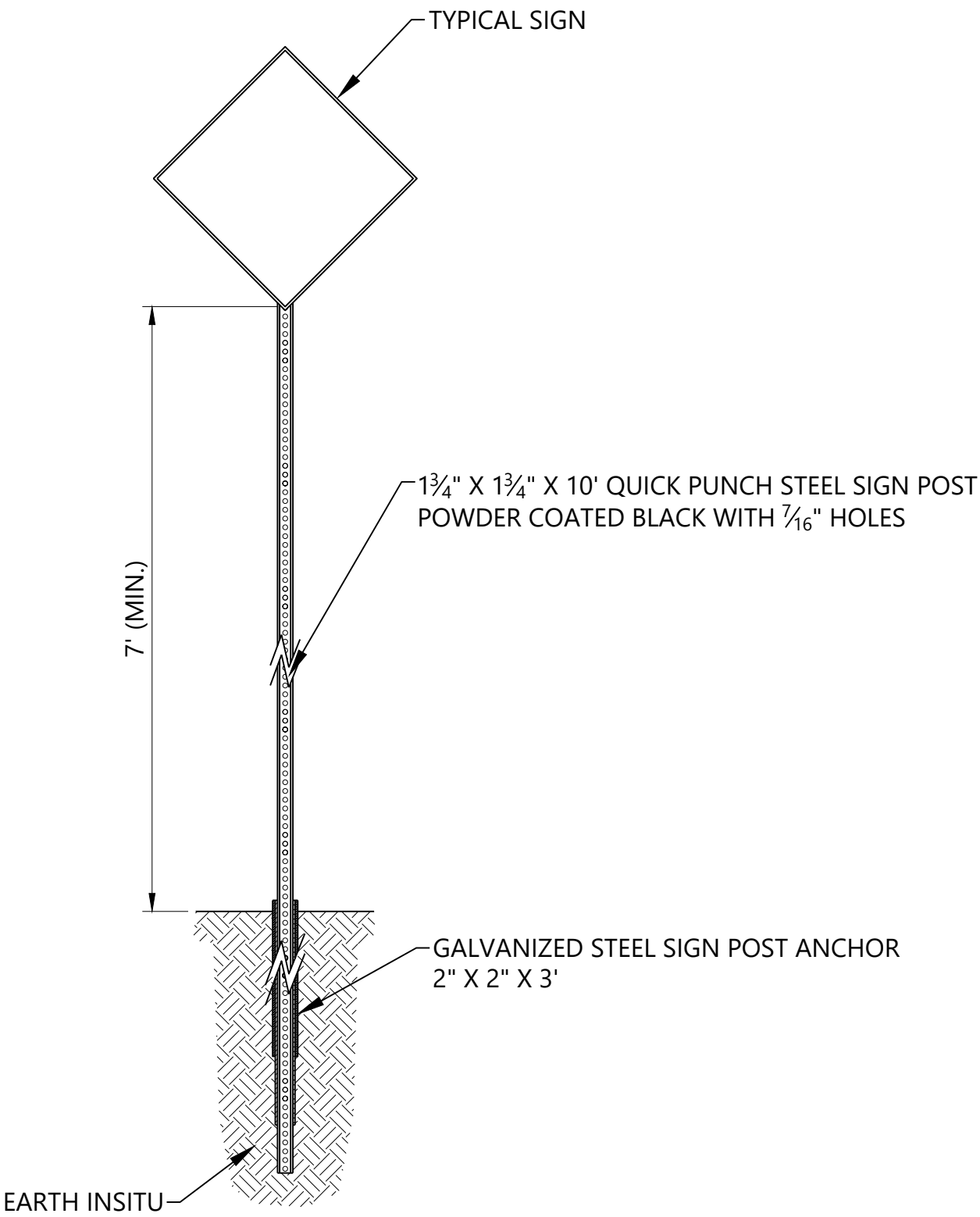
Crosswalk

N.T.S.



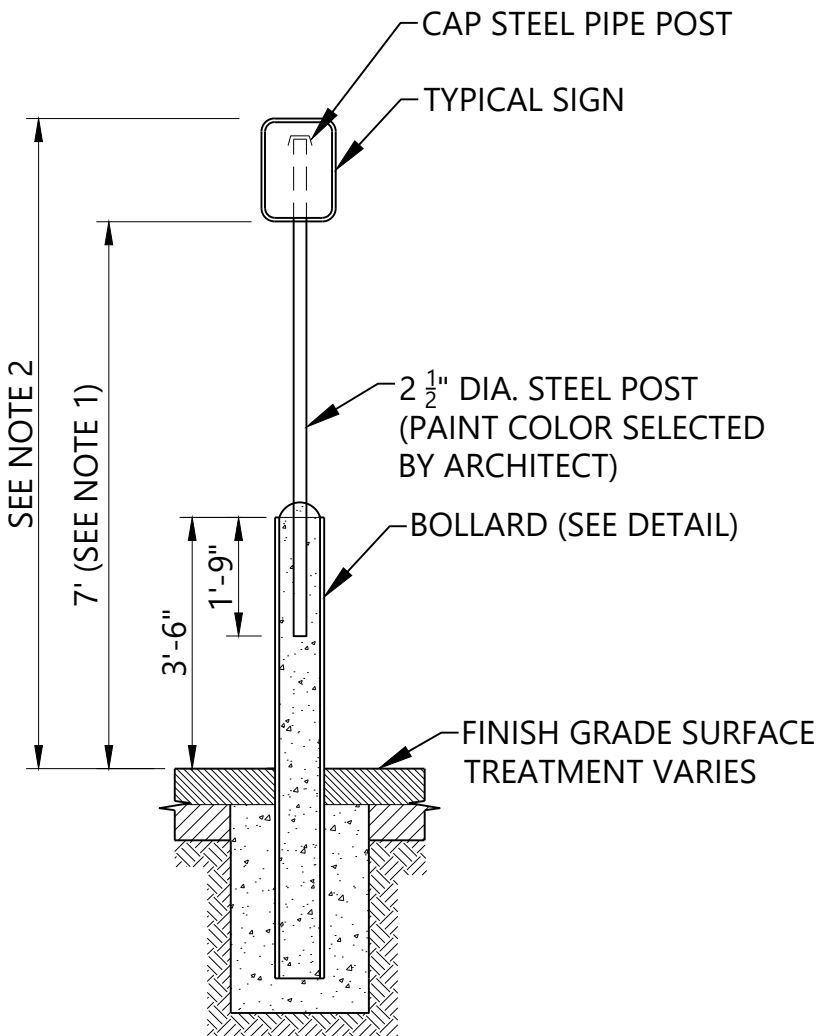
Bollard

N.T.S.



Breakaway Sign Post

N.T.S.

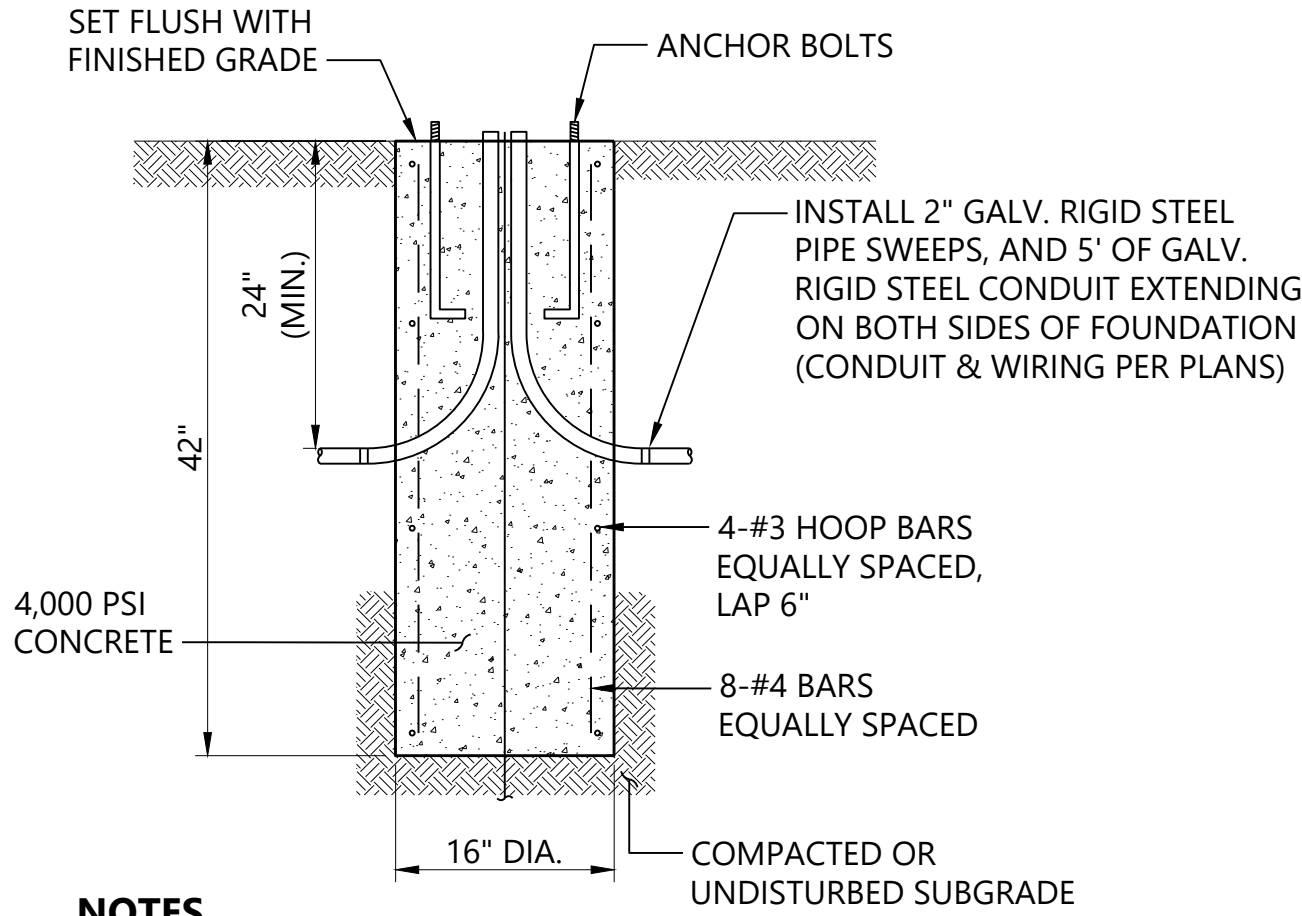


NOTES

1. THIS DIMENSION SHALL BE A MINIMUM OF 5' FOR ACCESSIBLE SIGNAGE.
2. THIS DIMENSION SHALL BE A MAXIMUM OF 8' FOR ACCESSIBLE SIGNAGE.

Bollard Mounted Sign

N.T.S.



NOTES

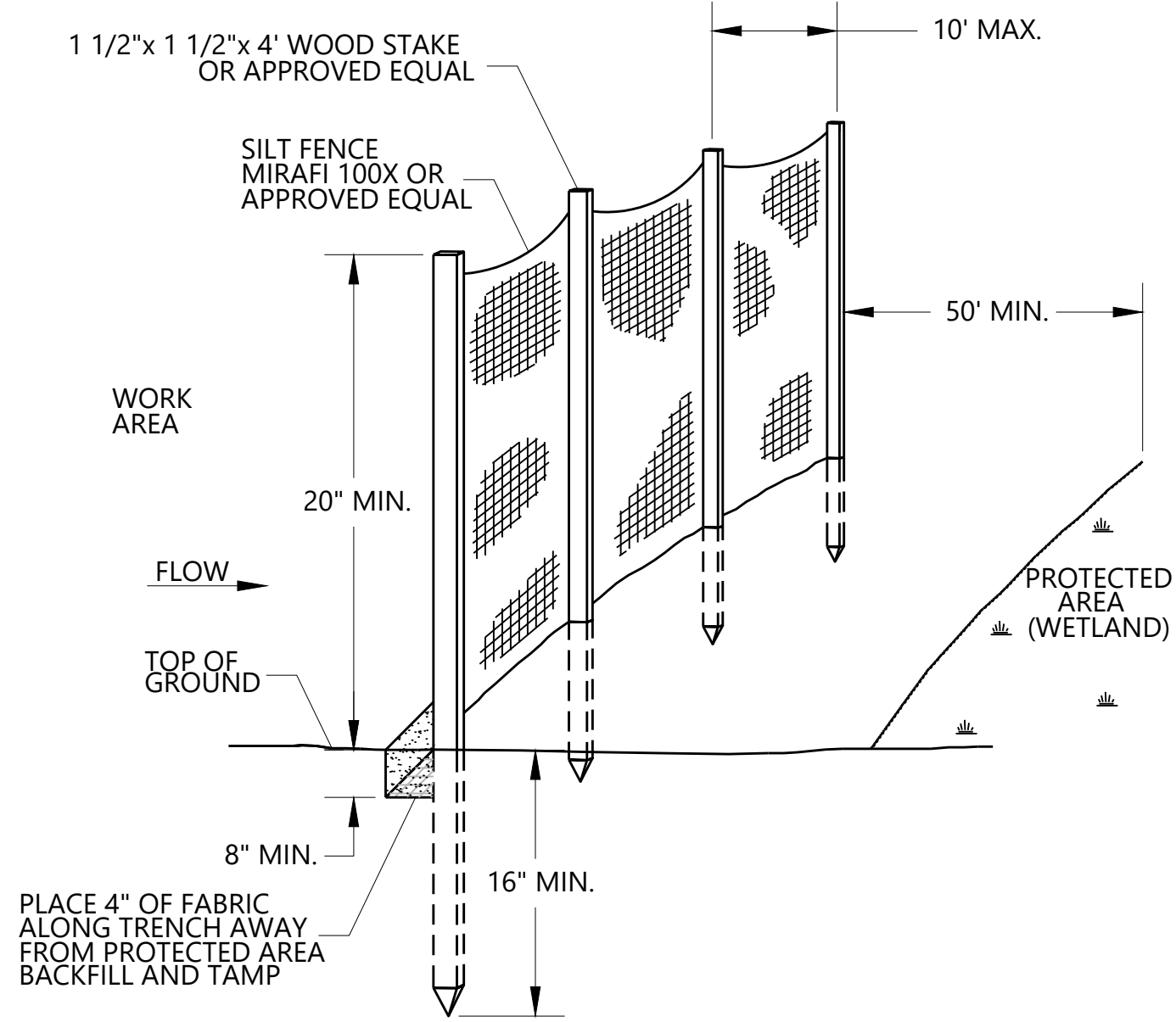
1. ANCHORS AND BOLTS SHALL BE OF MATERIALS AND TO DIMENSIONS SPECIFIED BY LIGHT POLE MANUFACTURER.
2. GROUND WIRE AND GROUNDING ROD SHALL BE INCLUDED IN INSTALLATION PER POLE MANUFACTURER AND NATIONAL ELECTRICAL CODE

Light Pole Foundation

N.T.S.

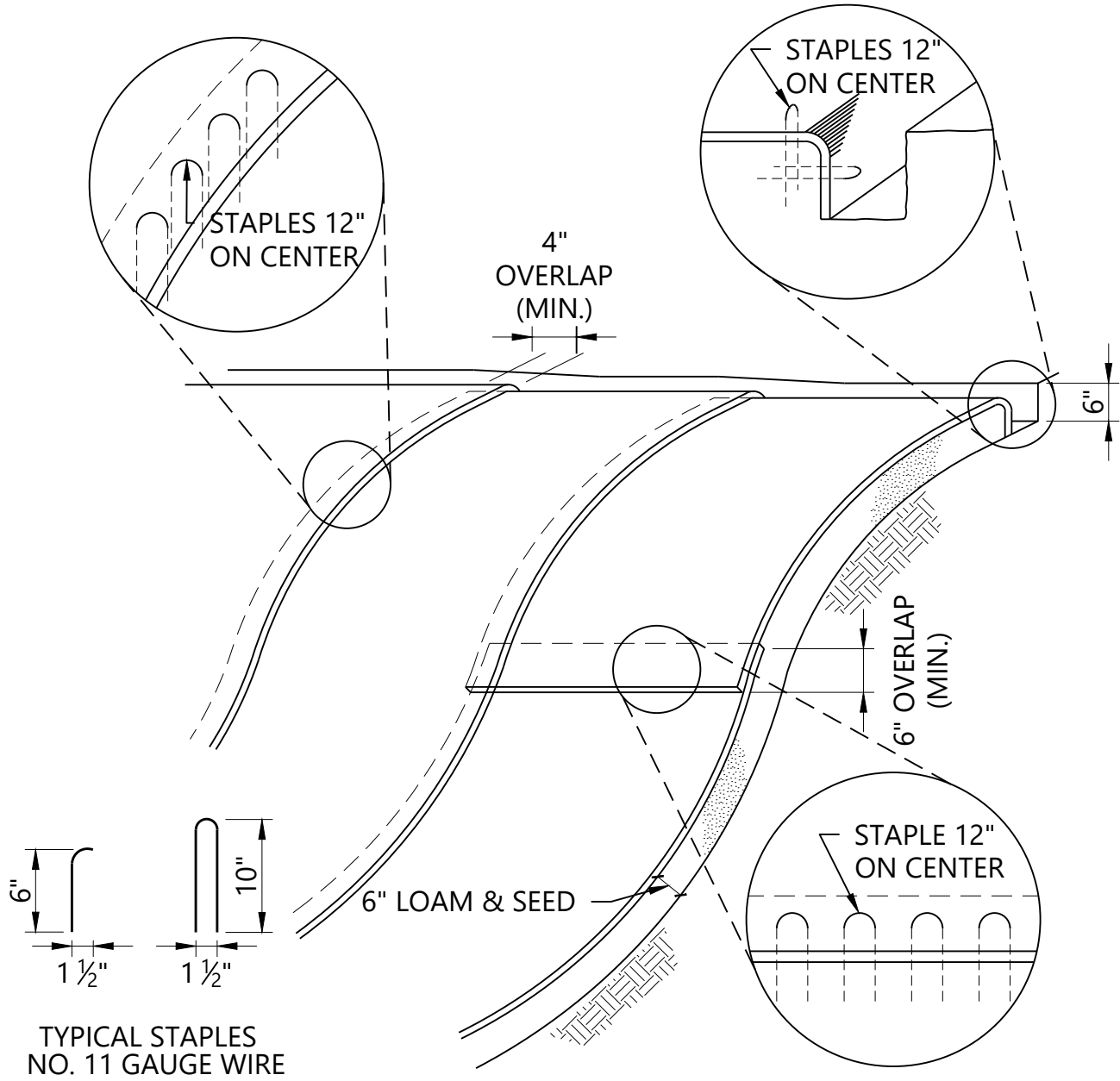
		MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS			
		TOWN OF MILFORD, NEW HAMPSHIRE			
ROADWAY DETAILS		DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.
		6/1/2026	52852.00	52852_DET.dwg	42470
				SHEET NO.	TOTAL SHEETS
				5	24

SDR PROCESSED		DATE		REVISIONS: AFTER PROPOSAL					
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AS BUILT DETAILS		DATE							



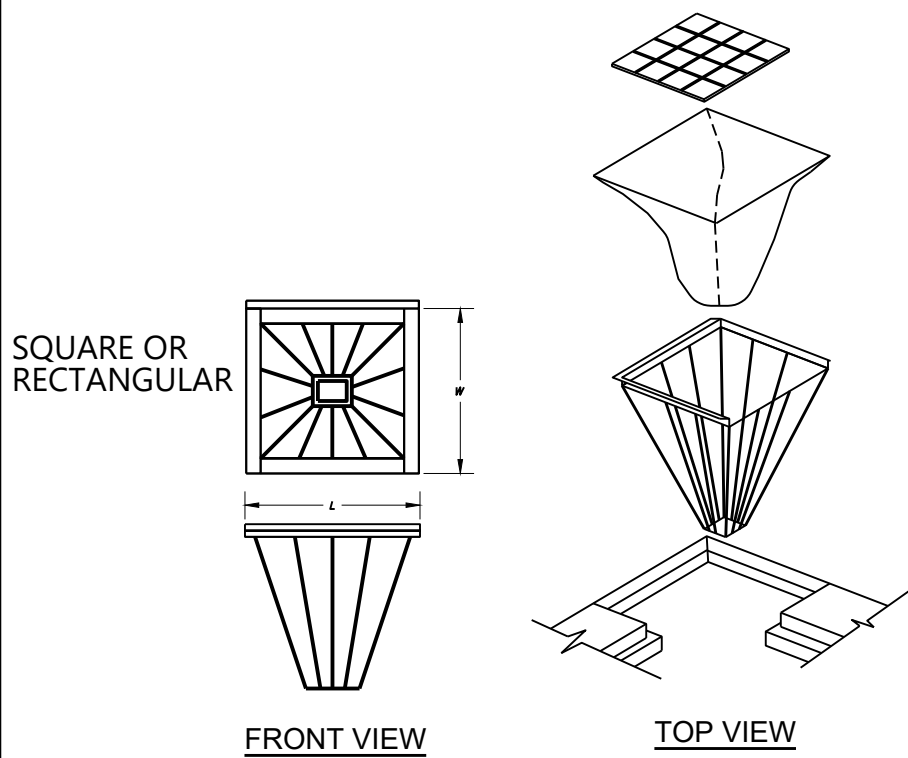
Silt Fence

N.T.S.



Erosion Control Blanket Slope Installation

N.T.S.



Silt sack Inlet Filter Basket

N.T.S.

CONSTRUCTION SPECIFICATIONS:

1. THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
2. THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 10 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
3. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIE OR STAPLES WHERE NOTED OR AS DIRECTED BY DESIGN ENGINEER.
4. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MIDSECTION AND BOTTOM.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
6. FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 10 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
7. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

MAINTENANCE:

1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

NOTES

1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
4. WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE UPPER BLANKET END OVER LOWER END WITH 6 INCH (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.
5. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
6. EROSION CONTROL BLANKETS SHALL BE USED IN ALL AREAS WHERE SLOPES EXCEED 3:1.
7. ALL EROSION CONTROL BLANKETS SHALL BE MADE WITH WILDLIFE FRIENDLY ALL NATURAL NETTING.

THIS PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

1. PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS.
2. TEMPORARY WATER DIVERSION (SWALES, BASINS, ETC) MUST BE USED AS NECESSARY UNTIL AREAS ARE STABILIZED.
3. PONDS AND SWALES SHALL BE INSTALLED EARLY ON IN THE CONSTRUCTION SEQUENCE (BEFORE ROUGH GRADING THE SITE).
4. ALL DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
5. ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
6. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE
7. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.
8. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.
9. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER.
10. CLEAN ALL DRAINAGE BASINS, STRUCTURES, PIPES AND SUMPS WITHIN THE PROJECT LIMITS OF ALL SILT AND DEBRIS.
11. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

- BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
- MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED ON LOAMED AREAS.
- A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED.
- OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

12. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
13. ALL PERMANENT AND TEMPORARY SEEDING SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED):

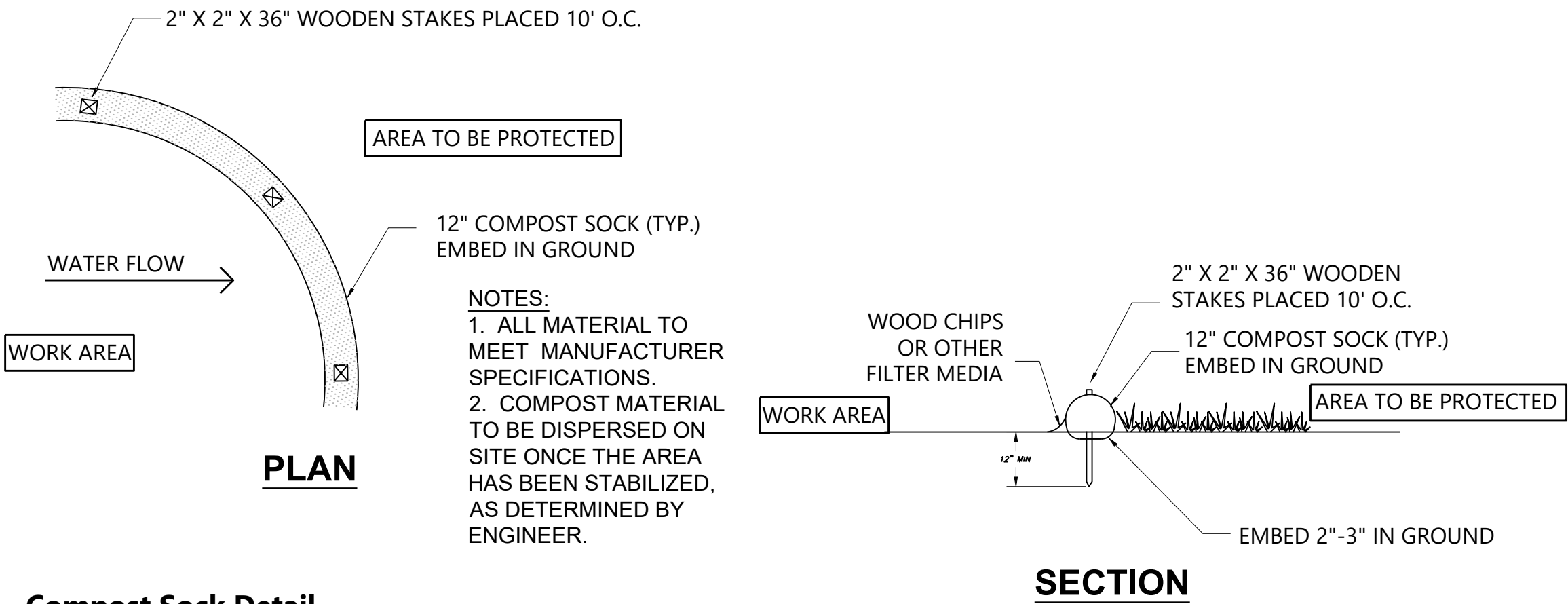
PERMANENT SEEDING	PROPORTION	GERMINATION		PURITY
		MINIMUM	MINIMUM	
LAWNS:				
CREeping RED FESCUE	50%	85%	95%	
KENTUCKY BLUEGRASS	40%	85%	90%	
MANHATTAN PERENNIAL RYE	10%	90%	95%	

TEMPORARY SEEDING*	% WEIGHT	GERMINATION	
		MINIMUM	
WINTER RYE	80% MIN.	85%	
RED FESCUE (CREeping)	4% MIN.	80%	
PERENNIAL RYE GRASS	3% MIN.	90%	
RED CLOVER	3% MIN.	90%	
OTHER CROP GRASS	0.5% MAX.		
NOXIOUS WEED SEED	0.5% MAX.		
INERT MATTER	1.0% MAX.		

* TEMPORARY SEED FOR LAWNS SHALL ONLY BE PLANTED WHEN PERMANENT GRASSES CANNOT BE PLANTED DUE TO THE GROWING SEASON.

WINTER CONSTRUCTION

1. ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING. ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
2. AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.



Compost Sock Detail

N.T.S.

NOTE:

1. SEE NHDOT GUIDELINES FOR TEMPORARY EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT. BY REFERENCE, THESE DETAILS ARE INCLUDED IN THESE PLANS.

		MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS			
		TOWN OF MILFORD, NEW HAMPSHIRE			
ROADWAY DETAILS					
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6/1/2026	52852.00	52852_DET.dwg	42470	6	24

GENERAL NOTES:

1. THESE SHEETS ARE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), AND THE REQUIREMENTS OF THE 2011 PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT OF WAY (PROWAG).

2. NOT ALL FACILITIES CAN BE CONSTRUCTED TO MEET THE DESIGN STANDARDS. FACILITIES THAT CANNOT BE CONSTRUCTED TO MEET THE DESIGN STANDARDS SHALL BE CONSTRUCTED TO MEET THE STANDARDS TO THE GREATEST EXTENT PRACTICABLE. NONSTANDARD FEATURES SHALL BE DOCUMENTED ON TECHNICAL INFEASIBILITY FORM AND SUBMITTED TO NHDOT ADA COORDINATOR FOR APPROVAL.

3. TO CHECK FIELD LAYOUT ALL SLOPES AND GRADES SHALL BE MEASURED WITH A DIGITAL LEVEL USING AT LEAST TWO READINGS. WHERE THE READINGS VARY, THE MEASUREMENTS SHALL BE AVERAGED. GRADE (RUNNING SLOPE) SHALL BE MEASURED ALONG THE CENTERLINE AND OFFSET 1.00' TO 1.50' FROM THE CENTERLINE. CROSS SLOPES SHALL BE MEASURED PERPENDICULAR TO CENTERLINE AT 5.00' TO 10.00' INTERVALS.

4. GRADES (RUNNING SLOPES) ARE MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL. CROSS SLOPES ARE MEASURED PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.

5. JOINTS BETWEEN SIDEWALKS, CURB RAMPS, TURNING SPACES AND ROADWAYS SHALL BE FLUSH AND FREE FROM ABRUPT VERTICAL CHANGES GREATER THAN 1/4". VERTICAL SURFACE DISCONTINUITIES BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 2:1. THE BEVEL SHALL BE APPLIED ACROSS THE ENTIRE JOINT. SEE DETAIL ON SHEET 10.

6. SIDEWALKS ARE CONNECTED TO ROADWAYS BY EITHER BLENDED TRANSITIONS OR CURB RAMPS. BLENDED TRANSITIONS ARE CONNECTIONS BETWEEN THE SIDEWALK LEVEL AND THE ROADWAY LEVEL THAT HAVE A MAXIMUM GRADE (RUNNING SLOPE) OF 5%, AND TRANSITIONS GREATER THAN 5% ARE CONSIDERED CURB RAMPS.

7. CURB RAMPS AND BLENDED TRANSITIONS MAY REQUIRE THE INSTALLATION OF DETECTABLE WARNINGS. SEE ADDITIONAL "DETECTABLE WARNING DEVICE NOTES" ON THIS SHEET, AND DETAILS ON SHEET 9 FOR DIMENSIONS, ORIENTATION AND INSTALLATION.

8. VERTICAL ALIGNMENT SHALL BE GENERALLY PLANAR. GRADE BREAKS WITHIN THE PEDESTRIAN ACCESS ROUTE SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL AND SHALL NOT BE ROUNDED.

9. THE CROSS SLOPE OF PEDESTRIAN ACCESS ROUTES (PAR) SHALL BE 2% MAXIMUM. THE FOLLOWING EXCEPTIONS ARE ALLOWED:

A. WHERE PEDESTRIAN CROSSINGS ARE PROVIDED AT INTERSECTIONS WITHOUT YIELD OR STOP CONTROL OR WHERE THERE IS ANY TRAFFIC SIGNAL, THE CROSS SLOPE OF A PEDESTRIAN ACCESS ROUTE CONTAINED WITHIN A CROSSING SHALL BE 5% MAXIMUM.

B. WHERE MIDBLOCK PEDESTRIAN CROSSINGS ARE PROVIDED, THE CROSS SLOPE OF A PEDESTRIAN ACCESS ROUTE CONTAINED WITHIN A MIDBLOCK CROSSING SHALL BE PERMITTED TO EQUAL THE STREET OR HIGHWAY GRADE.

10. THE MINIMUM CLEAR WIDTH FOR PEDESTRIAN ACCESS ROUTES IS 4.00', EXCLUSIVE OF THE CURB. WHEN WALKWAY WIDTHS ARE LESS THAN 5.00', 5.00' x 5.00' PASSING SPACES, OR A FEATURE OF EQUAL OR GREATER DIMENSIONS (E.G., DRIVEWAYS) THAT MEET THE SLOPE CRITERIA, SHALL BE PROVIDED AT A MAXIMUM INTERVAL OF 200'. EXISTING DRIVEWAYS AND STREET CROSSING MAY ALSO SERVE AS PASSING SPACES.

11. THE BUFFER ZONE IS A PHYSICAL DISTANCE SEPARATING THE PEDESTRIAN ACCESS ROUTE FROM THE VEHICLE TRAVELED WAY. THE BUFFER ZONE MAY BE PLANTED OR PAVED.

12. WHEN CROSSING DRIVEWAYS, THE WORK SHALL BE IN CONFORMANCE WITH NHDOT DRIVEWAY DETAILS SHEET. THE CROSS SLOPE ACROSS DRIVEWAYS SHALL BE 2% MAXIMUM.

TURNING SPACE AND CLEAR SPACE NOTES:

23. WHERE A CHANGE IN DIRECTION IS REQUIRED TO UTILIZE A CURB RAMP, A TURNING SPACE SHALL BE PROVIDED AT THE BASE AND/OR THE TOP OF CURB RAMP AS APPLICABLE. TURNING SPACES SHALL BE PERMITTED TO OVERLAP CLEAR SPACES.

24. WHERE THERE ARE NO VERTICAL CONSTRAINTS AT THE BACK OF SIDEWALK, (E.G., VERTICAL CURB, BUILDINGS, FENCES) THE TURNING SPACE DIMENSIONS SHALL BE 4.00' x 4.00' MINIMUM. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF SIDEWALK, THE TURNING SPACE SHALL BE 4.00' X 5.00' MINIMUM. THE 5.00' DIMENSION SHALL BE PROVIDED PERPENDICULAR TO THE CONSTRAINT.

25. TURNING SPACE MAXIMUM CROSS SLOPE IS 2% IN ANY DIRECTION.

26. BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE OF 4.00' x 4.00' MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN CROSSWALK, AND OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE. THE CLEAR SPACE MAY OVERLAP TURNING SPACES, DETECTABLE WARNING SURFACES, AND DROP CURBS.

DETECTABLE WARNING DEVICE NOTES:

27. DETECTABLE WARNING DEVICES (DWD) SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS ON PEDESTRIAN ACCESS ROUTES:

A. CURB RAMPS AT PEDESTRIAN CROSSINGS.

B. PEDESTRIAN REFUGE ISLANDS (WHERE THE LENGTH OF THE PEDESTRIAN ACCESS ROUTE ACROSS THE REFUGE ISLAND IS GREATER THAN OR EQUAL TO 6.00').

C. PEDESTRIAN AT-GRADE RAIL CROSSINGS NOT LOCATED WITHIN A STREET OR HIGHWAY.

D. DRIVEWAY CROSSINGS WITH NHDOT APPROVED AND MAINTAINED SIGNALS, YIELD OR STOP CONTROL. DETECTABLE WARNING DEVICES SHALL NOT BE PROVIDED AT CROSSINGS OF UNCONTROLLED DRIVEWAY APRONS.

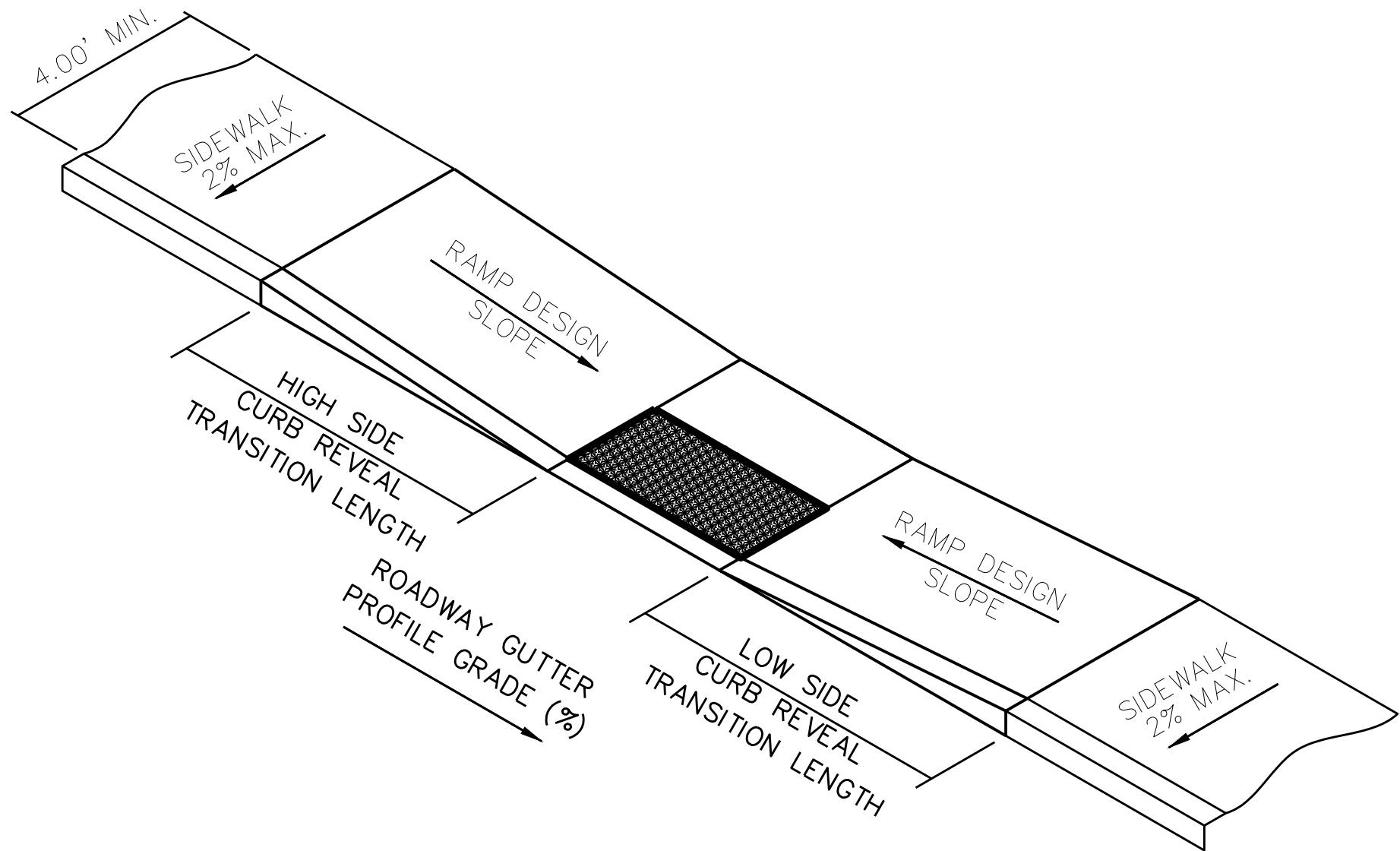
28. SOME DETECTABLE WARNING PRODUCTS REQUIRE A CONCRETE BORDER FOR PROPER INSTALLATION. IF REQUIRED, THE BORDER SHALL NOT EXCEED 2" IN WIDTH OR 6" ALONG ROADWAY EDGE/CURB. THE BORDER DIMENSION SHALL BE MEASURED FROM THE INSIDE EDGE OF THE RADIUS.

29. THE DETAILS PROVIDED ARE NOT DRAWN TO SCALE. THE QUANTITY OF DOMES DEPICTED ON THE DETECTABLE WARNING DEVICE DETAIL IS FOR ILLUSTRATION ONLY. THE SIZE OF THE DETECTABLE WARNING FIELD SHALL BE 2.00' MINIMUM IN THE DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE, EXCLUDING ANY FLARED SIDES. THE WIDTH OF THE DETECTABLE WARNING FIELD INCLUDES A CONCRETE BORDER, IF PROVIDED. PLACEMENT AND ORIENTATION SHALL BE IN COMPLIANCE WITH THE DETAILS.

30. ON SLOPES OF 5% OR GREATER, THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE LOWER GRADE BREAK ON THE RAMP RUN. WHERE DOMES ARE ARRAYED RADIALLY THEY MAY DIFFER IN DOME DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON SHEET 10. ON SLOPES LESS THAN 5%, DOME ORIENTATION IS LESS CRITICAL AND MAY DIFFER FROM PERPENDICULAR OR RADIAL ALIGNMENT TO THE GRADE BREAK.

31. THE DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT GUTTER, STREET OR HIGHWAY, OR PEDESTRIAN ACCESS ROUTE SURFACE.

32. DETECTABLE WARNING PANELS SHALL BE CAST IRON WITH NO SURFACE COATING AND SHALL BE ALLOWED TO TRANSITION TO THEIR NATURAL PATINA.

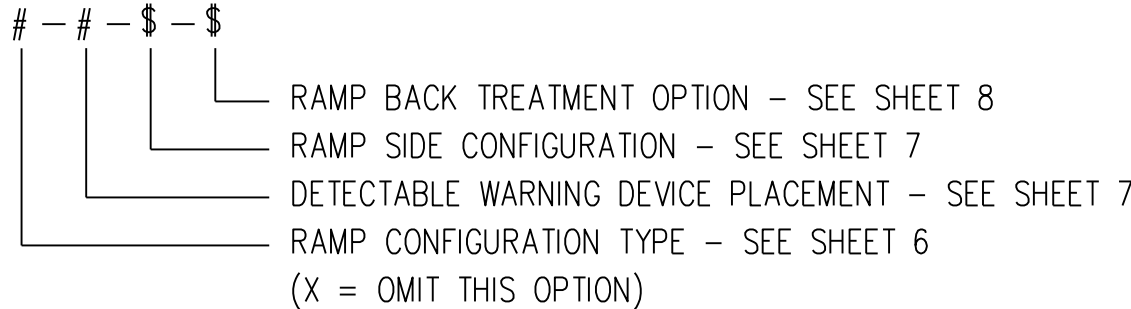


TYPICAL CURB TRANSITION LENGTH TABLE								
CURB REVEAL (INCHES)		7	6	5	4	3	2	1
	ROADWAY PROFILE GRADE (%)	Minimum Transition Length Required (FT)						
Low Side	-10%	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	-9%	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	-8%	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	-7%	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	-6%	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	-5%	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	-4%	5.1	5.0	5.0	5.0	5.0	5.0	5.0
	-3%	5.6	5.0	5.0	5.0	5.0	5.0	5.0
	-2%	6.1	5.3	5.0	5.0	5.0	5.0	5.0
	-1%	6.9	5.9	5.0	5.0	5.0	5.0	5.0
High Side	0%	7.8	6.7	5.6	5.0	5.0	5.0	5.0
	1%	9.0	7.7	6.4	5.1	5.0	5.0	5.0
	2%	10.6	9.1	7.6	6.1	5.0	5.0	5.0
	3%	13.0	11.1	9.3	7.4	5.6	5.0	5.0
	4%	15.0	14.3	11.9	9.5	7.1	5.0	5.0
	5%	15.0	15.0	15.0	13.3	10.0	6.8	5.0
	6%	15.0	15.0	15.0	15.0	15.0	11.3	5.3
	7%	15.0	15.0	15.0	15.0	15.0	15.0	15.0
	8%	15.0	15.0	15.0	15.0	15.0	15.0	15.0
	9%	15.0	15.0	15.0	15.0	15.0	15.0	15.0
	10%	15.0	15.0	15.0	15.0	15.0	15.0	15.0

THIS TABLE REPRESENTS THE MINIMUM LENGTH OF CURB RAMP TRANSITION BASED ON THE EXISTING ROADWAY PROFILE GRADE AND THE CURB REVEAL AT FULL HEIGHT ALONG THE SIDEWALK. THE MINIMUM TRANSITION LENGTH REQUIRED IS BASED ON 7.5% SLOPE AND INDICATED CURB REVEAL.

TREATMENT KEY LEGEND

(RESURFACING STYLE PROJECTS)



CURB RAMP NOTES:

15. THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 4.00'.

16. THE FULL WIDTH OF THE RAMP OR LANDING SHALL BE CONTAINED WITHIN THE PAVEMENT MARKINGS AT MARKED CROSSWALKS.

17. CURB RAMPS ARE NOT REQUIRED IN LOCATIONS WHERE THERE IS NO ACCESSIBLE PEDESTRIAN ACCESS ROUTE. UNLESS IT IS SERVING AS A LANDING FOR A PEDESTRIAN SIGNAL.

18. THE GRADE (RUNNING SLOPE) OF A CURB RAMP SHALL BE A MAXIMUM OF 8.3%.

19. WHERE EXISTING CONDITIONS DO NOT ALLOW THE CONSTRUCTION OF A CURB RAMP WITH A GRADE (RUNNING SLOPE) OF 8.3% OR LESS, THE RAMP LENGTH SHALL NOT BE REQUIRED TO EXCEED 15.00'.

20. THE CROSS SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS POSSIBLE AND STILL PROVIDE POSITIVE DRAINAGE. THE CROSS SLOPE OF A CURB RAMP 2% MAXIMUM.

21. RAMP SIDE TREATMENT OPTIONS ARE DETAILED ON SHEET 9 FOR USE WITHIN THE BUFFER ZONE. WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP, FLARED SIDES SHALL BE INSTALLED WITH A SLOPE OF 10% MAXIMUM. THE SLOPE OF FLARED SIDES IS MEASURED PARALLEL TO THE CURB LINE.

22. THE BACKSIDE OF A PARALLEL RAMP SHOULD BE GRADED TO MATCH EXISTING TERRAIN, UNLESS OTHERWISE SHOWN IN THE CONTRACT DOCUMENTS. WHERE GRADING IS NOT FEASIBLE DUE TO LIMITED ROW OR PHYSICAL CONSTRAINTS, A BACK CURB MAY BE INSTALLED.

DEFINITION OF TERMS:

LANDING: A 4.00' X 4.00' CLEAR SPACE WITH A 2% SLOPE OR LESS IN ALL DIRECTIONS.

MAXIMUM EXTENT FEASIBLE: ALL CHANGES THAT ARE POSSIBLE ARE MADE TO COMPLY WITH ACCESSIBILITY STANDARDS.

PEDESTRIAN ACCESS ROUTE (PAR): A CONTINUOUS AND UNOBSTRUCTED PATH OF TRAVEL PROVIDED FOR PEDESTRIANS WITH DISABILITIES WITHIN OR CONINCIDING WITH A PEDESTRIAN CIRCULATION PATH. PAR SHALL BE 4'W MIN.(EXCLUDING CURBING), 2% MAX. CROSS SLOPE AND 1/4" OR LESS VERTICAL DISCONTINUITY.

TECHNICAL INFEASIBILITY: EXISTING PHYSICAL OR SITE CONSTRAINTS THAT PROHIBIT MODIFICATIONS OR ADDITIONS OF ELEMENTS, SPACES OR FEATURES TO COMPLY WITH MINIMUM ACCESSIBILITY REQUIREMENTS.

INDEX OF SHEETS

- 1 OF 4

INDEX OF SHEETS AND GENERAL NOTES
- 2 OF 4

CURB RAMP CONFIGURATIONS
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DETECTABLE WARNING DEVICE PLACEMENT OPTIONS, RAMP SIDE CONFIGURATIONS
- 4 OF 4

RAMP BACK TREATMENTS, TRUNCATED DOMES, MISCELLANEOUS DETAILS

MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS

TOWN OF MILFORD, NEW HAMPSHIRE

ROADWAY DETAILS

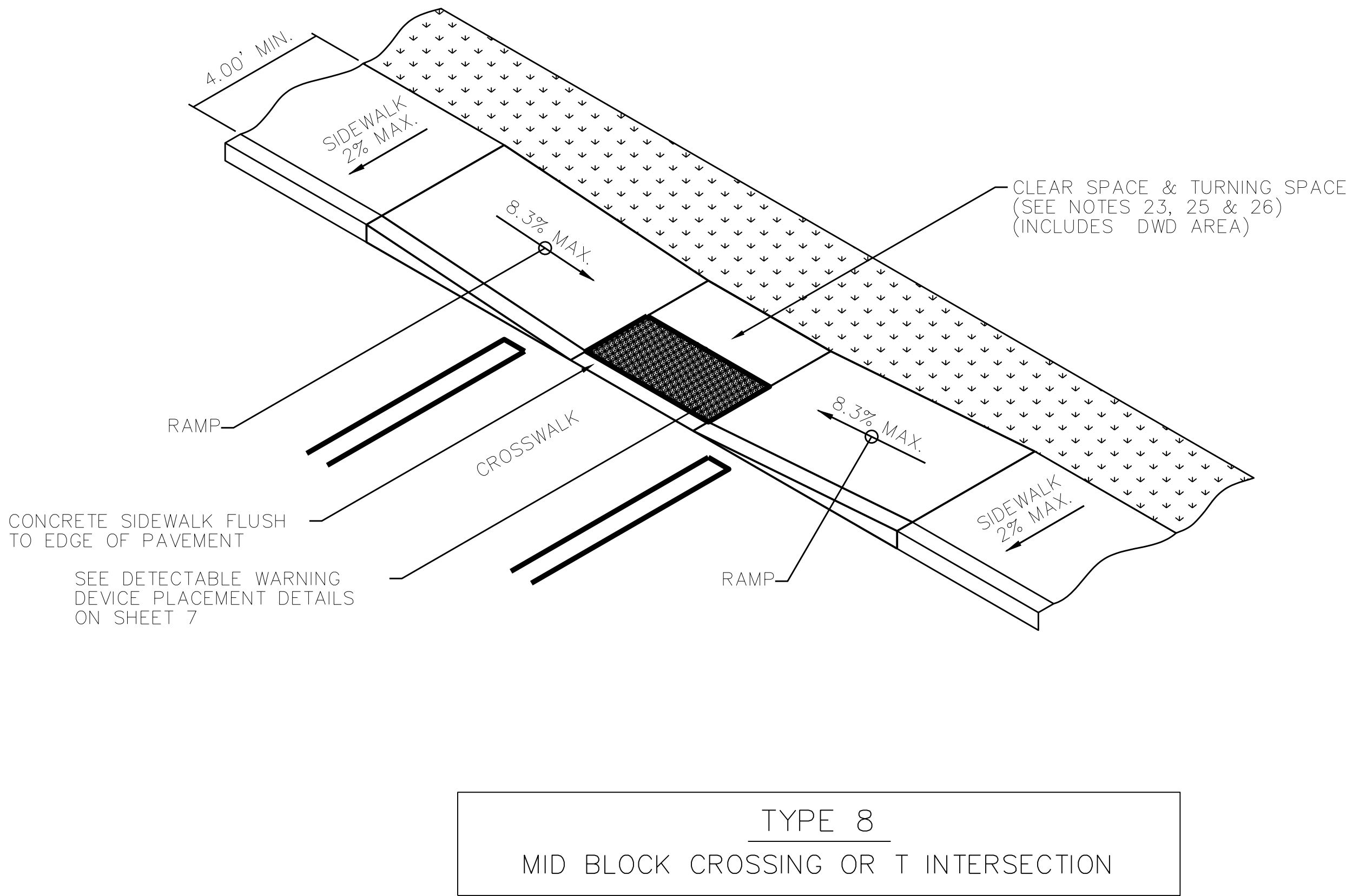
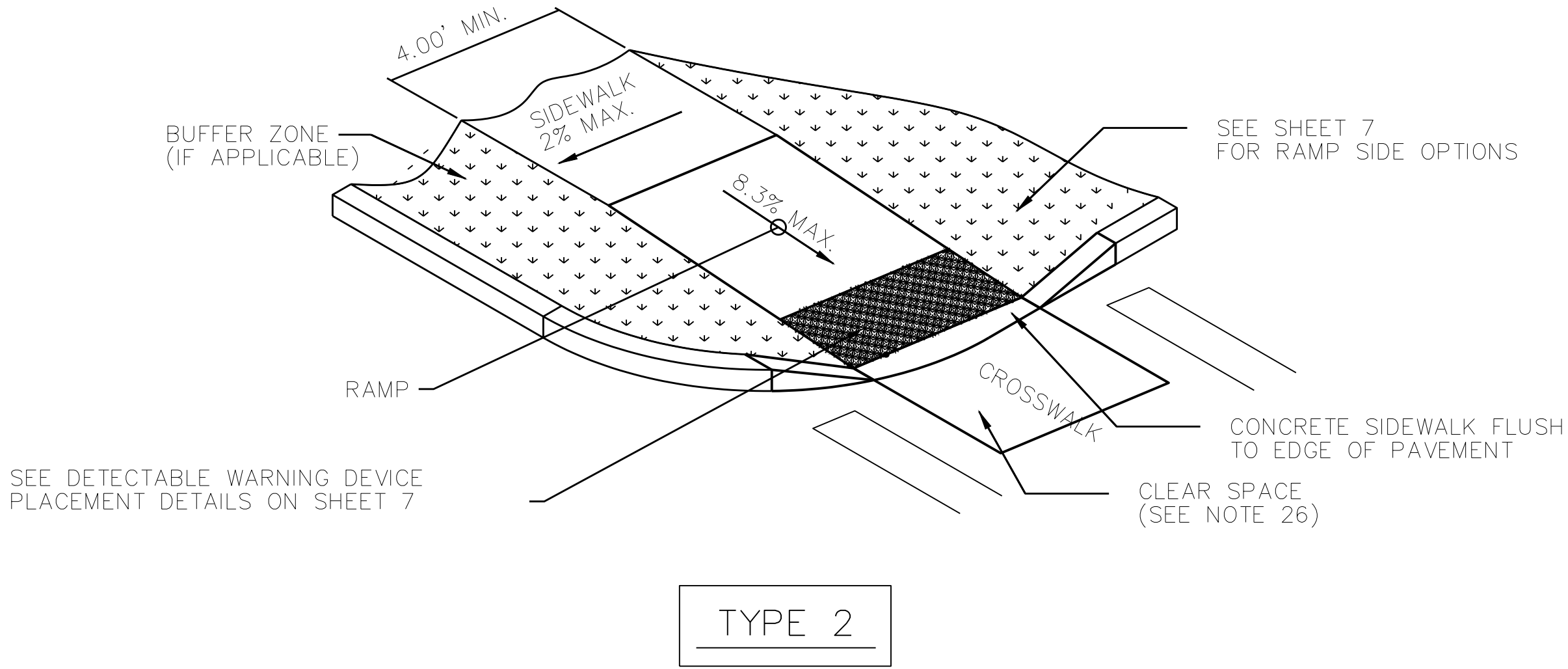
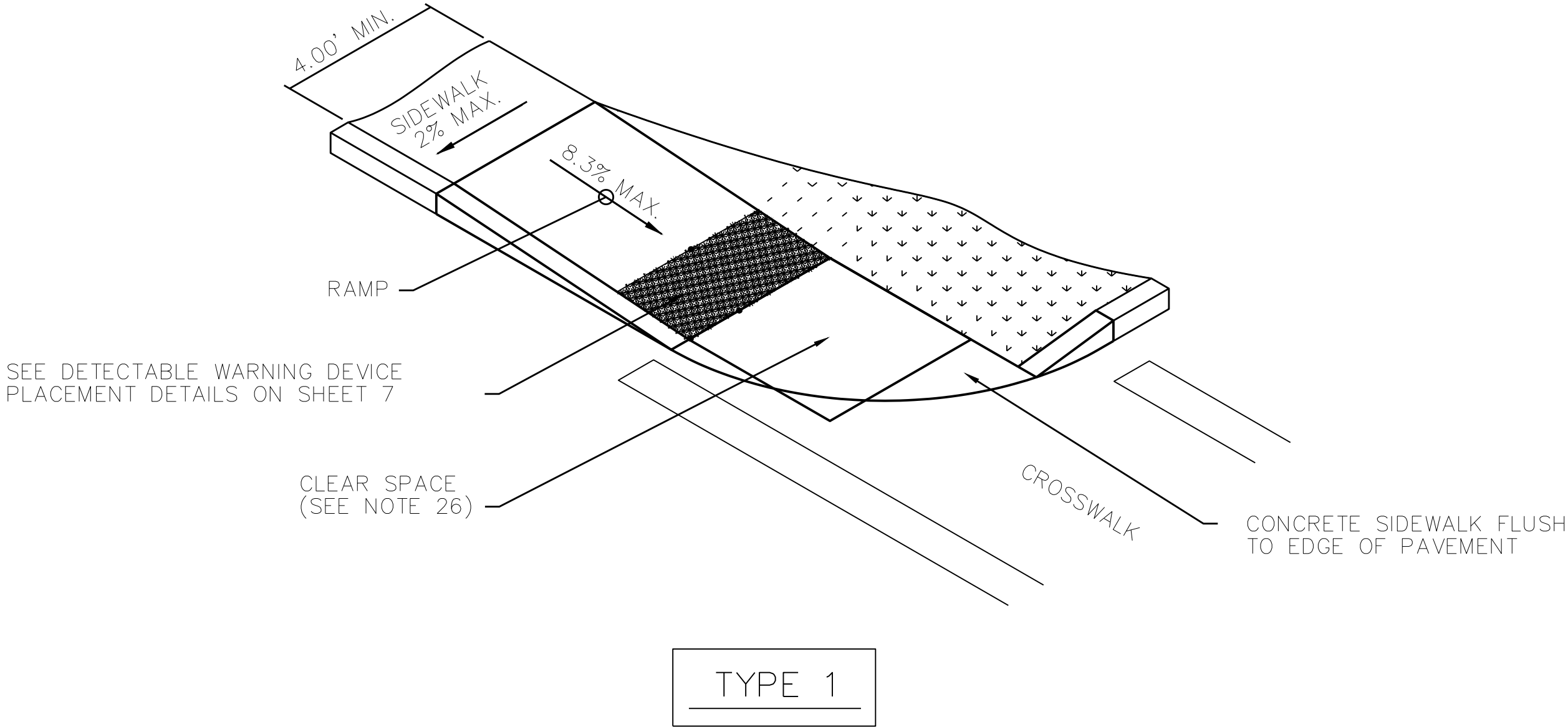
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SDR PROCESSED	REVISIONS AFTER PROPOSAL				
	NUMBER	DATE	STATION	STATION	DESCRIPTION
DATE					
NEW DESIGN					
SHEET CHECKED					
AS BUILT DETAILS					

NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON SIDEWALK CURB RAMP NOTES ON SHEET 7.

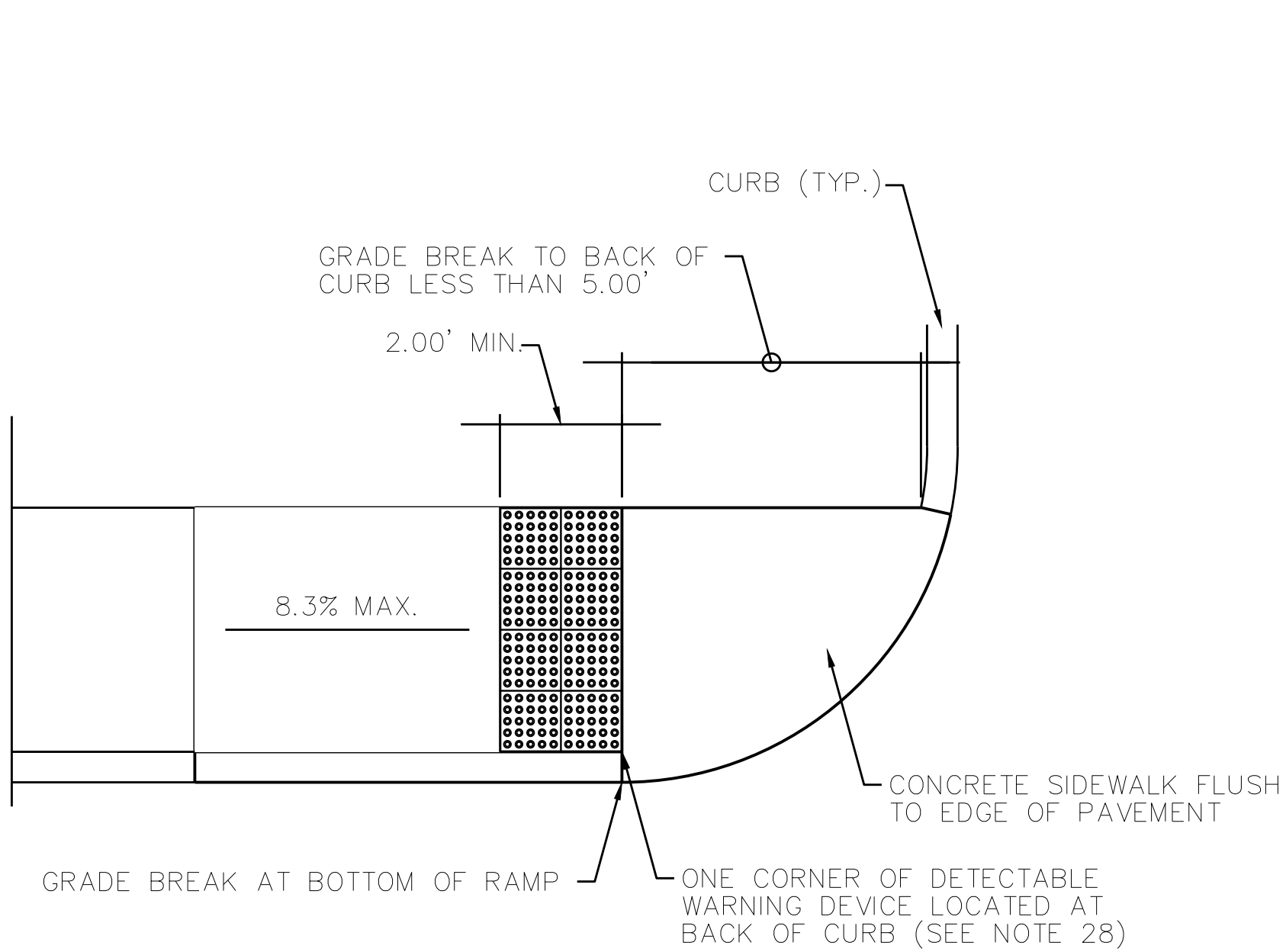
CURB RAMP CONFIGURATIONS

MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS					
TOWN OF MILFORD, NEW HAMPSHIRE					
ROADWAY DETAILS					
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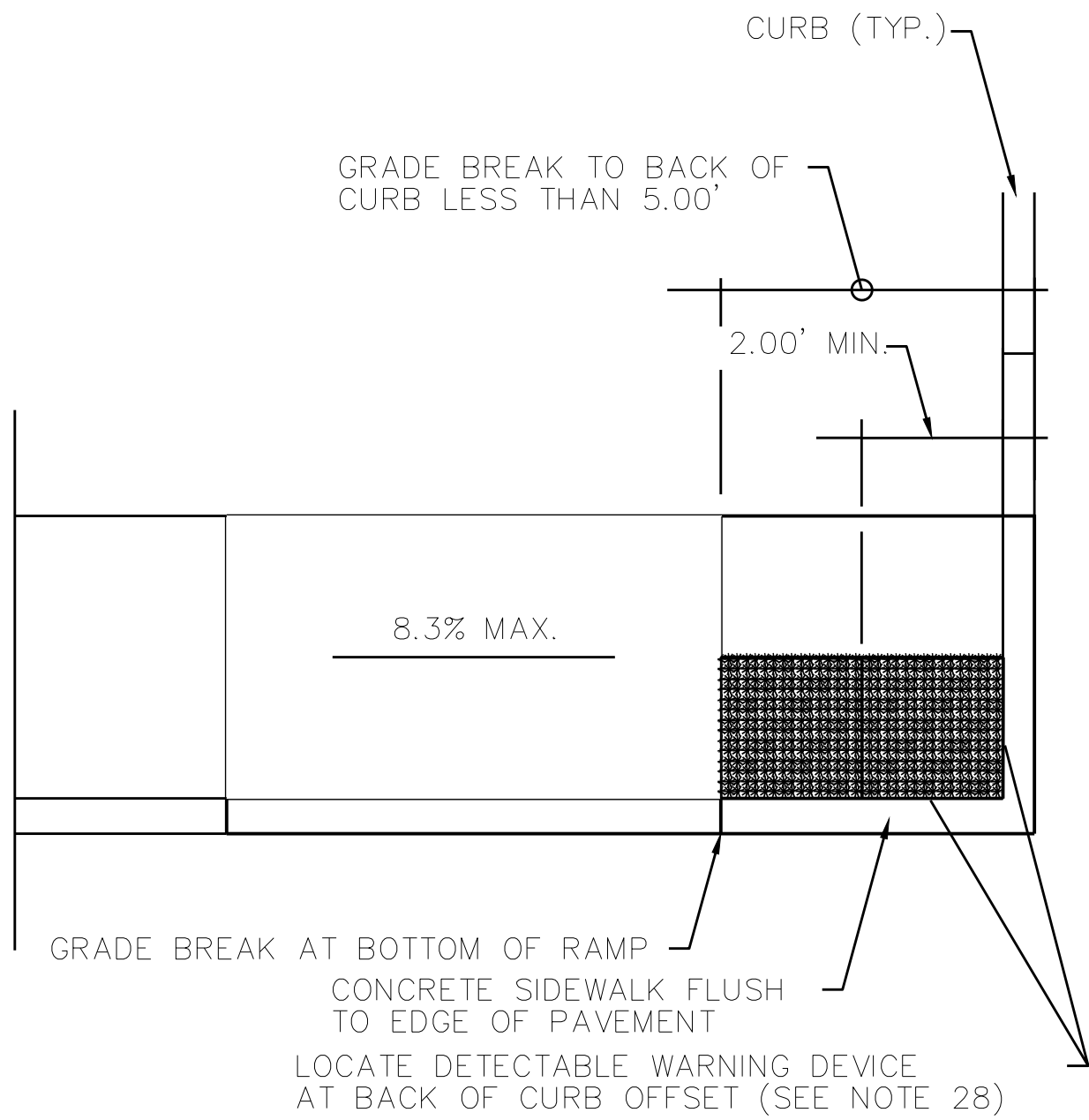


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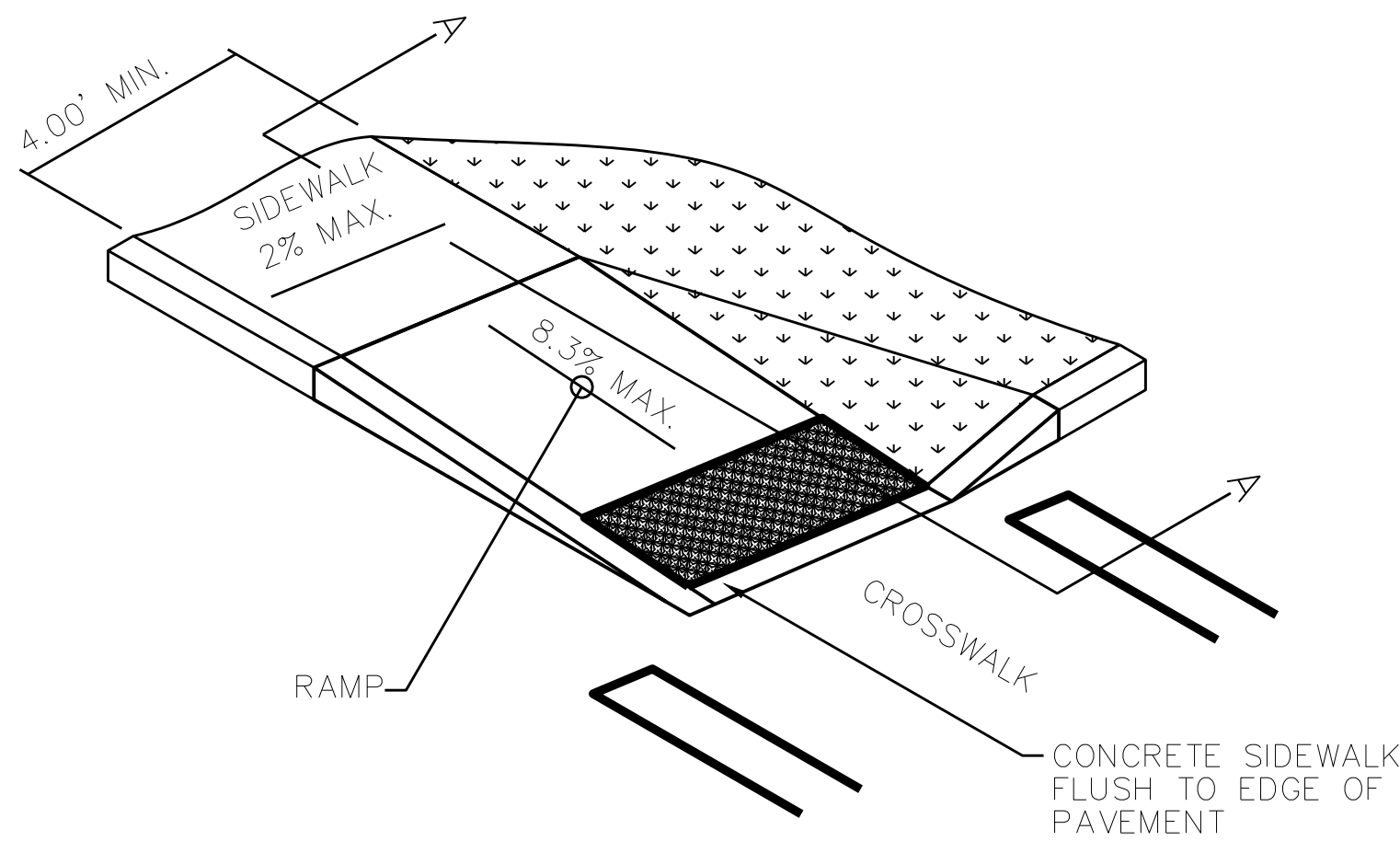
OPTION 1



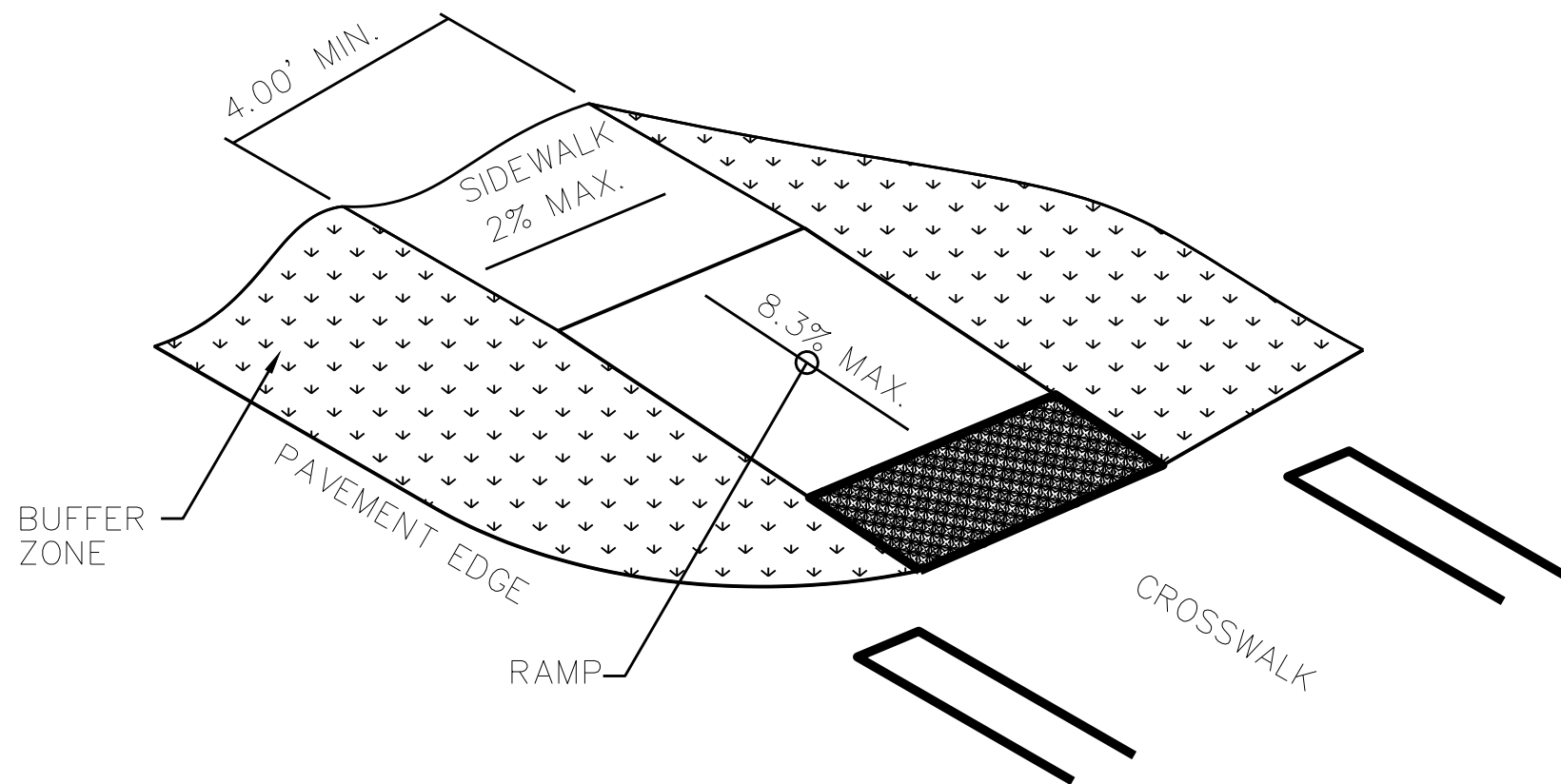
OPTION 2

GRADE BREAK TO BACK OF CURB LESS THAN 5.00'

DETECTABLE WARNING DEVICE (DWD) PLACEMENT OPTION DETAILS



OPTION B
GRADED EARTH



OPTION C
UNCURBED INTERSECTION

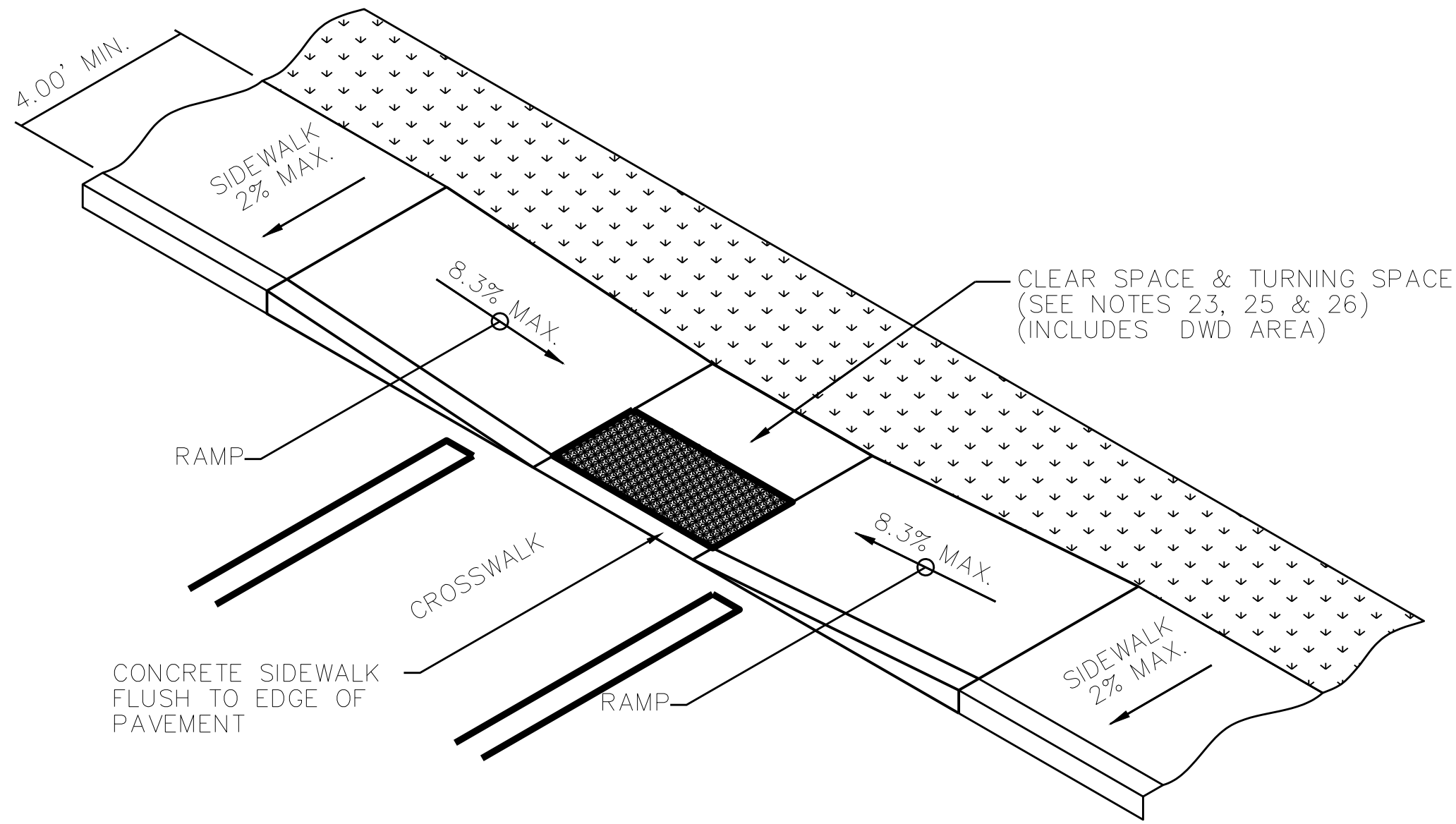
RAMP SIDE CONFIGURATIONS

NOTE:

ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON SIDEWALK CURB RAMP NOTES ON SHEET 6.

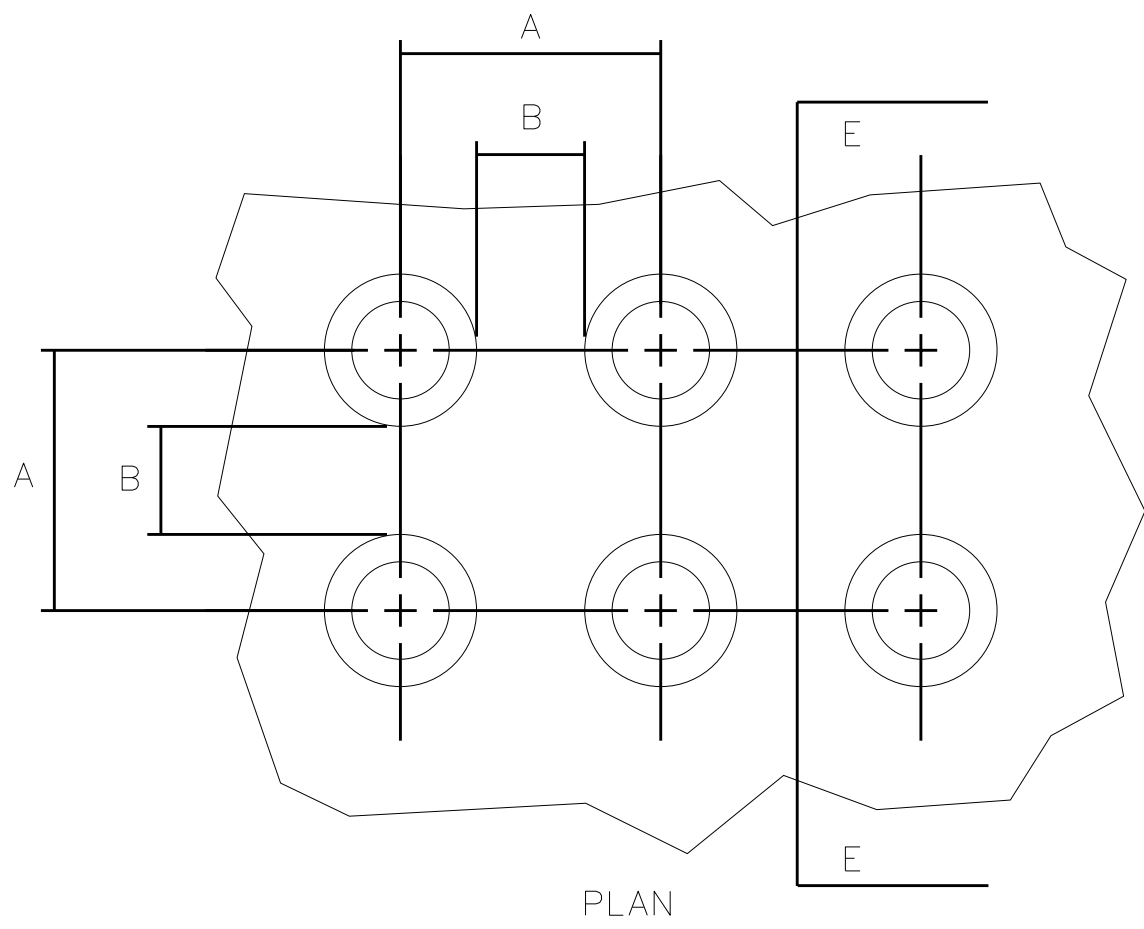
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TOWN OF MILFORD, NEW HAMPSHIRE					
ROADWAY DETAILS					
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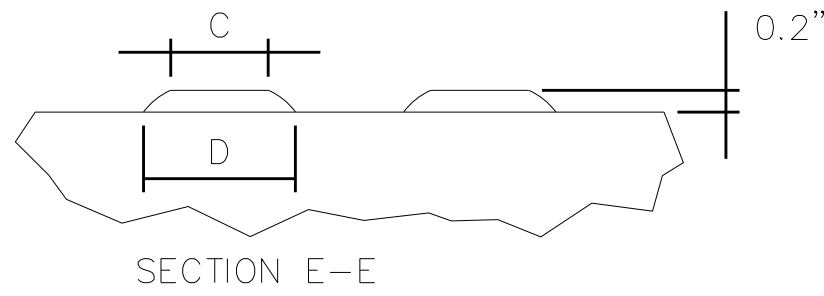


OPTION A
GRADED EARTH AND TURF

RAMP BACK TREATMENTS

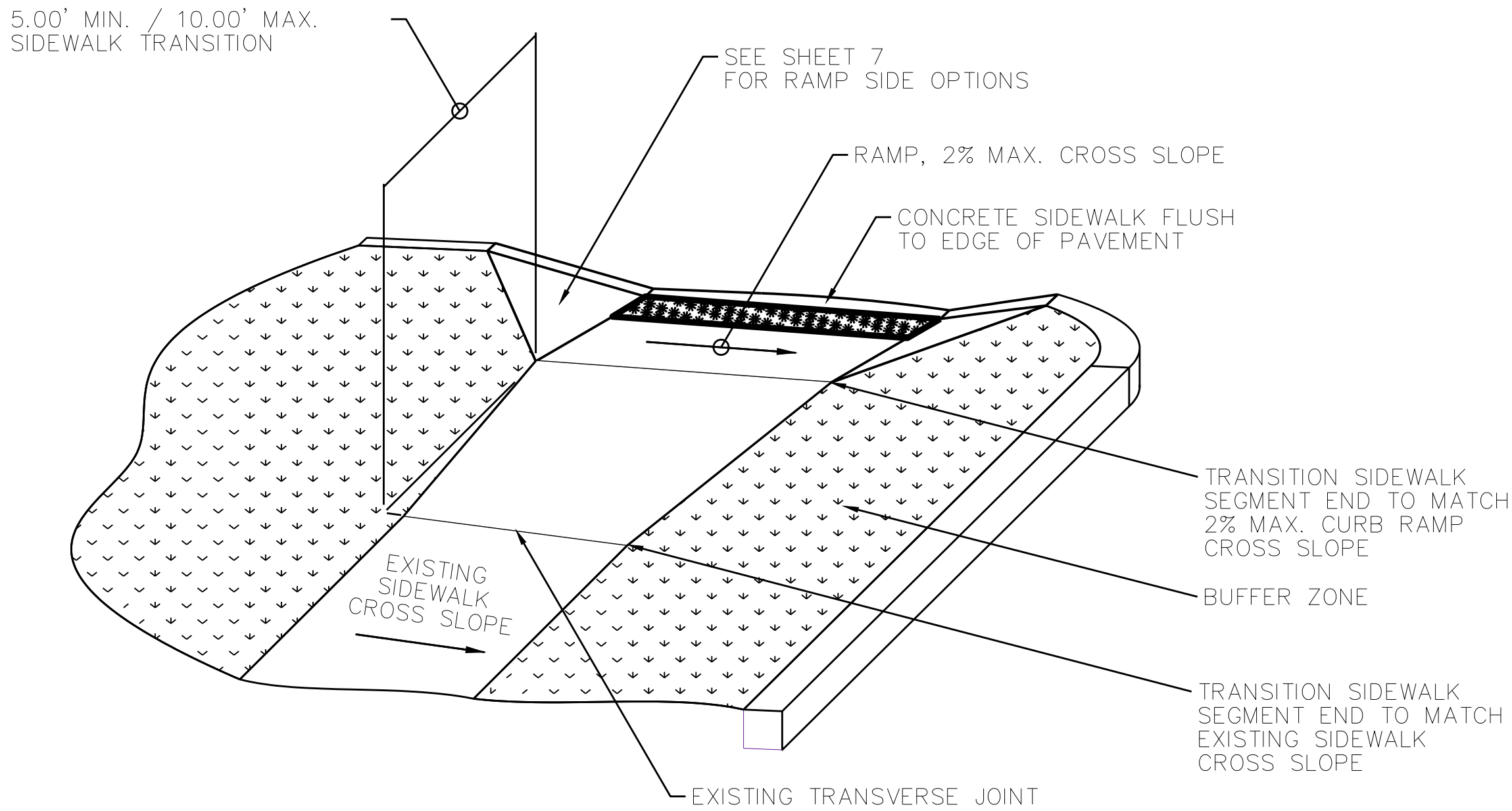


TRUNCATED DOME DIMENSIONS		
DIM.	MIN. (IN)	MAX. (IN)
A	1.6"	2.4"
B	0.65"	1.5"
C	50% – 65% OF D DIM.	
D	0.9"	1.4"



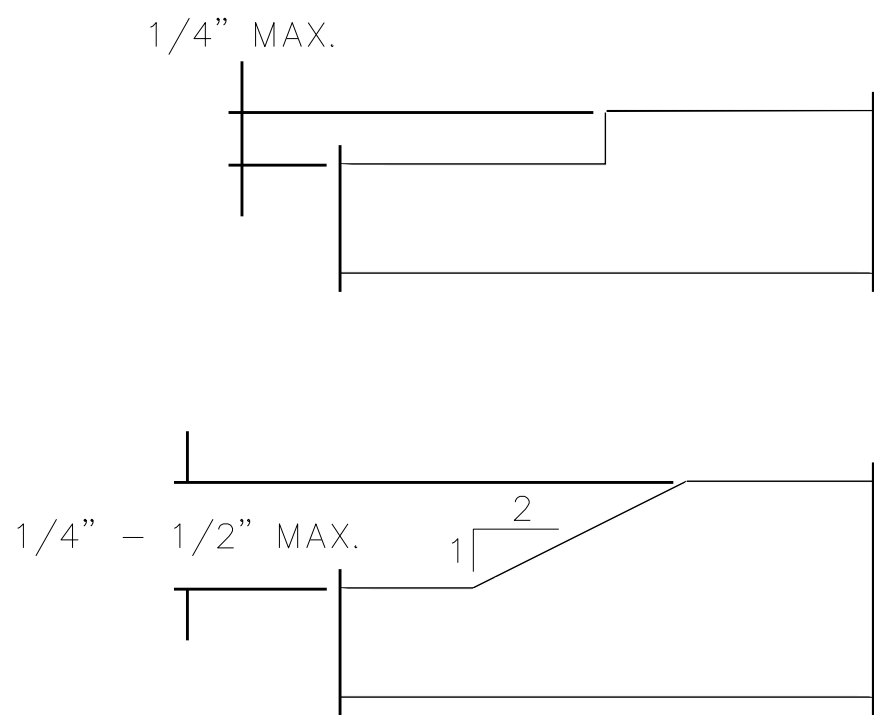
DETECTABLE WARNING DEVICES (DWD)
TRUNCATED DOME DETAILS

NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON SIDEWALK CURB RAMP NOTES ON SHEET 6.



TRANSITION BETWEEN CURB RAMP
AND EXISTING SIDEWALK

USE FOR CROSS SLOPE AND WIDTH TRANSITIONS

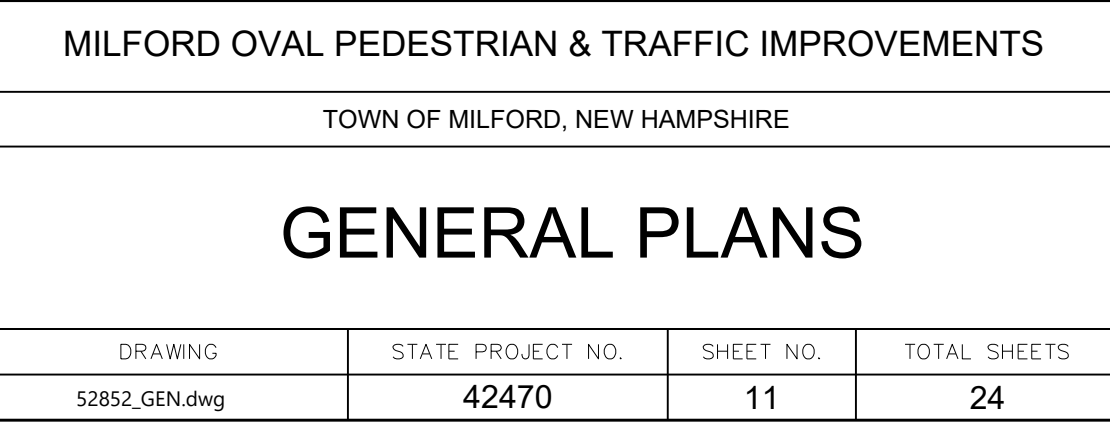


VERTICAL SURFACE DISCONTINUITIES

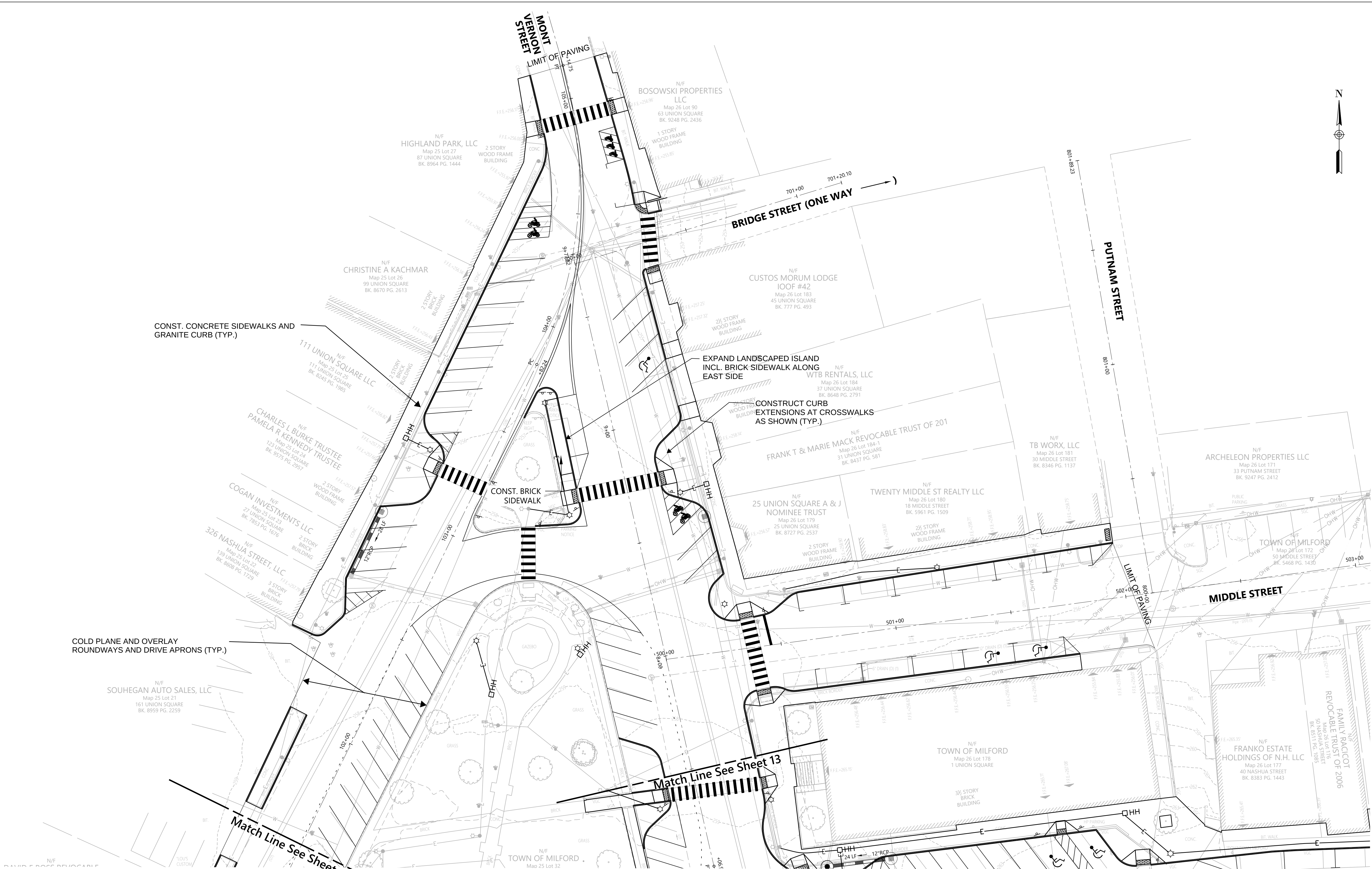
SEE NOTE 5

MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS					
TOWN OF MILFORD, NEW HAMPSHIRE					
ROADWAY DETAILS					
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SHEET CHECKED	DATE
AS BUILT DETAILS	DATE



SDR PROCESSED	REVISIONS - AFTER PROPOSAL					
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SHEET CHECKED	DATE	DATE	DATE	DATE	DATE	
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MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS

TOWN OF MILFORD, NEW HAMPSHIRE

GENERAL PLANS

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REVISIONS AFTER PROPOSAL

DESCRIPTION

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STATION

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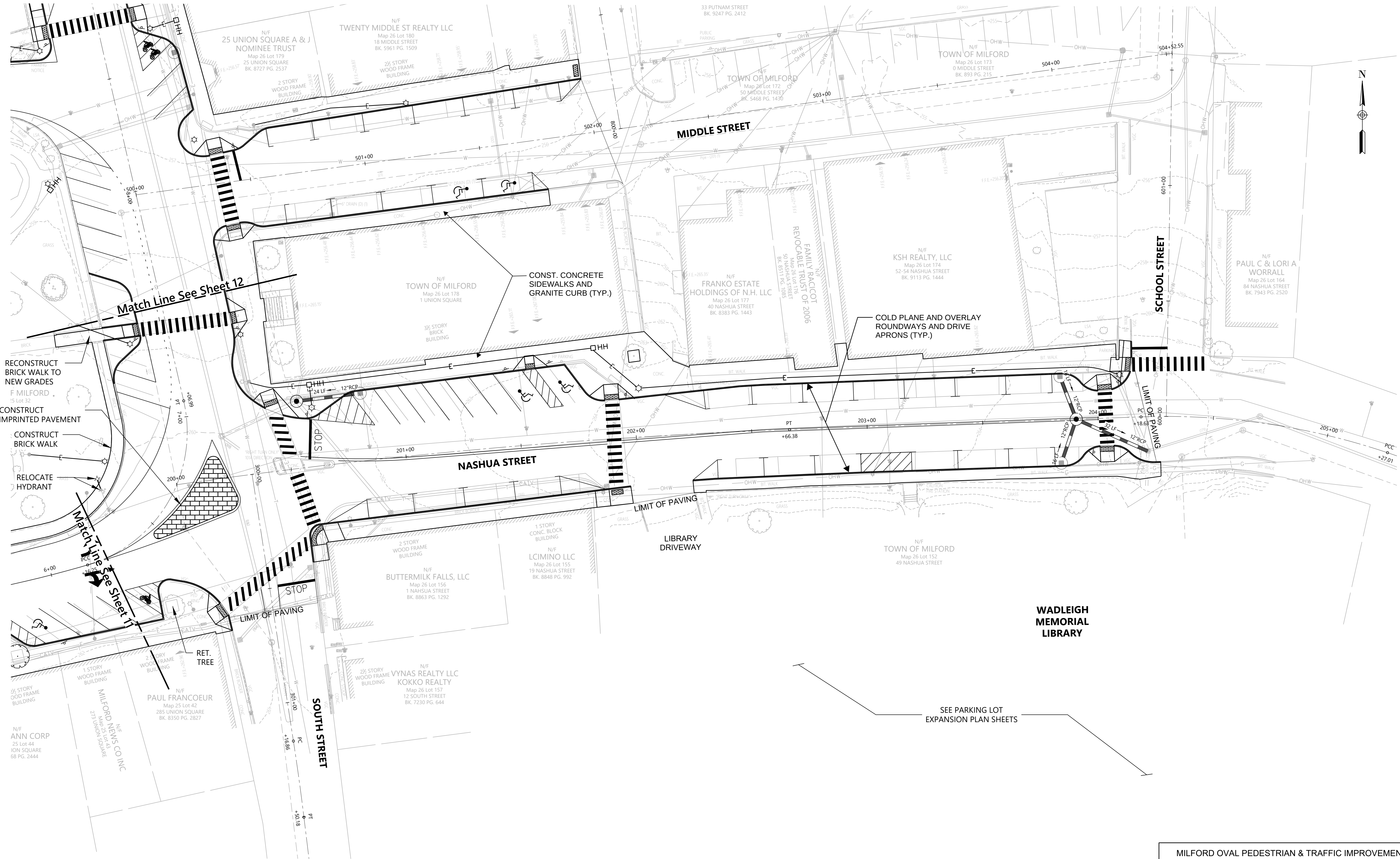
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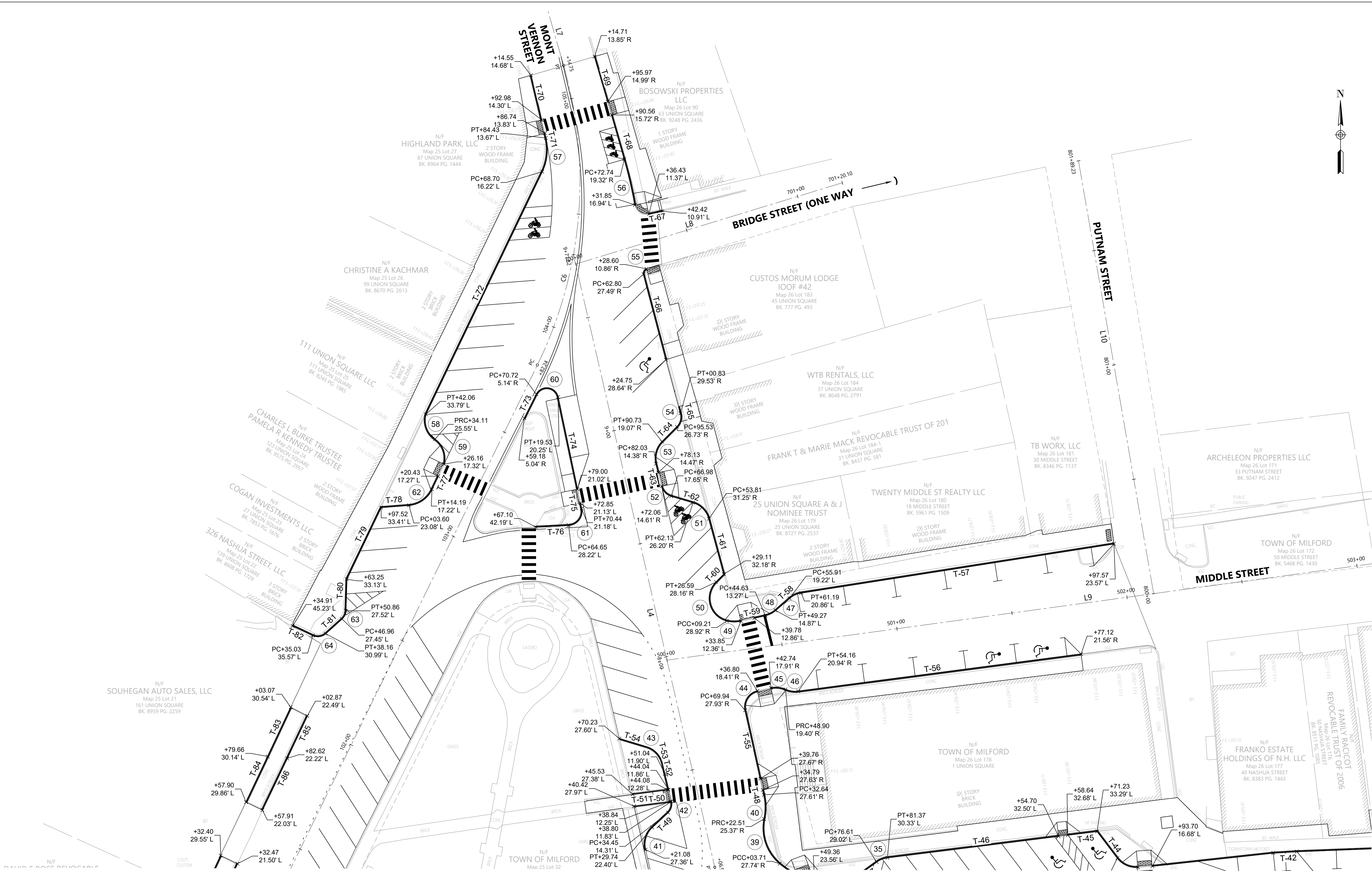
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MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS					
TOWN OF MILFORD, NEW HAMPSHIRE					
GENERAL PLANS					
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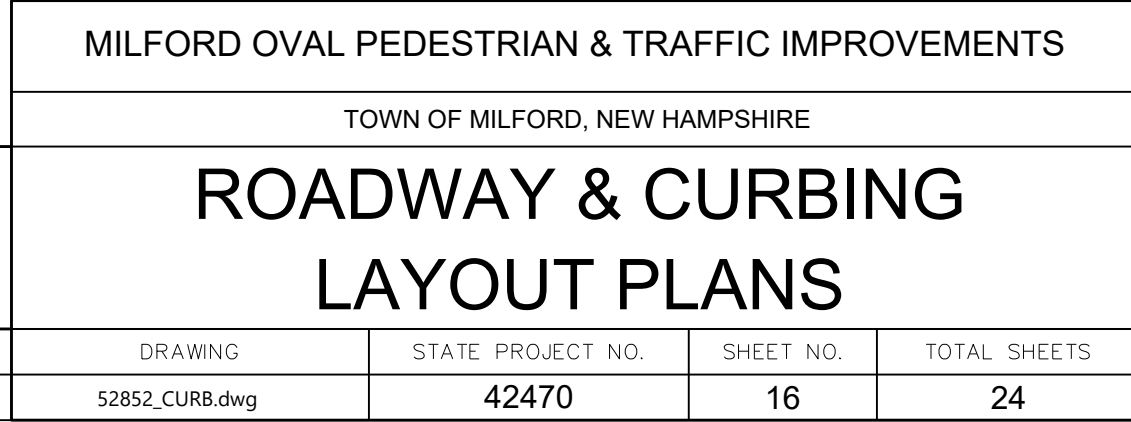


					
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MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS

TOWN OF MILFORD, NEW HAMPSHIRE

ROADWAY & CURBING LAYOUT PLANS



\\VHB.COM\GBL\PROJ\BEDFORD\52852.00_MILFORD_DOWNTOWN_IMPROVE\CAD\TE\PLANSET\52852_CURB

SDR PROCESSED

NEW DESIGN

SHEET CHECKED

AS BUILT DETAILS

DATE

DATE

DATE

DATE

REVISIONS AFTER PROPOSAL

STATION

DATE

NUMBER

DESCRIPTION

STATION

DATE

NUMBER

ELM ST & OVAL ALIGNMENT CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	0+00.00	122120.322	988292.521		S75° 12' 22"E 109.28'	1+09.28	122092.418	988398.182
L2	2+69.29	122107.645	988554.092		N64° 02' 59"E 119.36'	3+88.64	122159.875	988661.414
C1	1+09.28	122092.418	988398.182	R = 225.00' Δ= 40°44'39" L=160.00' T=83.55'		2+69.29	122107.645	988554.092
C2	3+88.64	122159.875	988661.414	R = 500.00' Δ= 14°10'12" L=123.66' T=62.15'		5+12.30	122199.757	988778.130
L3	5+12.30	122199.757	988778.130		N78° 13' 11"E 64.87'	5+77.17	122213.001	988841.637
C3	5+77.17	122213.001	988841.637	R = 500.00' Δ= 4°28'40" L=39.08' T=19.55'		6+16.25	122222.465	988879.539
C4	6+16.25	122222.465	988879.539	R = 60.00' Δ= 86°39'00" L=90.74' T=56.59'		7+06.99	122293.469	988921.225
L4	7+06.99	122293.469	988921.225		N12° 54' 29"W 270.83'	9+77.82	122557.457	988860.724

UNION ST ALIGNMENT CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C5	400+61.52	122031.982	988470.157	R = 1000.00' Δ= 4°07'05" L=71.87' T=35.95'		401+33.40	121965.119	988443.835
L5	400+00.00	122088.383	988494.736		S23° 32' 49"W 61.52'	400+61.52	122031.982	988470.157

OVAL & MONT VERNON ST ALIGNMENT CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L6	100+00.00	122166.908	988676.499		N26° 10' 31"E 382.24'	103+82.24	122509.951	988845.113
C6	103+82.24	122509.951	988845.113	R = 180.00' Δ= 42°10'46" L=132.51' T=69.42'		105+14.75	122638.979	988856.596
L7	105+14.75	122638.979	988856.596		N16° 00' 15"W 78.77'	105+93.52	122714.697	988834.878

BRIDGE ST ALIGNMENT CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L8	700+00.00	122553.389	988861.656		N73° 07' 40"E 120.10'	701+20.10	122588.247	988976.588

MIDDLE ST ALIGNMENT CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L9	500+00.00	122382.711	988900.772		N82° 17' 40"E 452.55'	504+52.55	122443.391	989349.240

PUTNAM ST ALIGNMENT CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L10	800+00.00	122411.084	989110.467		N9° 46' 35"W 189.23'	801+89.23	122597.569	989078.334

NASHUA ST ALIGNMENT CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C7	200+00.00	122257.156	988918.195	R = 2500.00' Δ= 6°06'18" L=266.38' T=133.32'		202+66.38	122280.627	989183.417
L11	202+66.38	122280.627	989183.417		N87° 59' 43"E 152.24'	204+18.63	122285.953	989335.567
C8	204+18.63	122285.953	989335.567	R = 300.00' Δ= 20°41'57" L=108.38' T=54.79'		205+27.01	122270.309	989442.217

SCHOOL ST ALIGNMENT CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L12	600+00.00	122286.136	989346.512		N0° 59' 38"E 250.00'	602+50.00	122536.098	989350.849

SOUTH ST ALIGNMENT CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L13	300+00.00	122261.582	988950.788		S8° 43' 43"E 116.86'	301+16.86	122146.073	988968.523
C9	301+16.86	122146.073	988968.523	R = 1000.00' Δ= 1°54'33" L=33.32' T=16.66'		301+50.18	122113.058	988973.030
L14	301+50.18	122113.058	988973.030		S6° 49' 10"E 96.27'	302+46.45	122017.474	988984.460

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REVISIONS - AFTER PROPOSAL			
NUMBER	DATE	STATION	DESCRIPTION

SDR PROCESSED	DATE
NEW DESIGN	DATE
SHEET CHECKED	DATE
AS BUILT DETAILS	DATE

TANGENT SEGMENTS CURB TABLE	
NUMBER	LENGTH
T-1	5.11'
T-2	7.23'
T-3	7.56'
T-4	34.56'
T-5	28.71'
T-6	28.64'
T-7	2.81'
T-8	66.32'
T-9	2.00'
T-10	9.64'
T-11	16.62'
T-12	55.40'
T-13	13.08'
T-14	9.42'
T-15	4.33'
T-16	4.39'
T-17	8.16'
T-18	3.59'
T-19	4.11'
T-20	15.51'

TANGENT SEGMENTS CURB TABLE	
NUMBER	LENGTH
T-21	15.80'
T-22	4.18'
T-23	4.06'
T-24	2.69'
T-25	10.16'
T-26	11.41'
T-27	11.32'
T-28	34.00'
T-29	14.79'
T-30	55.57'
T-31	11.50'
T-32	5.26'
T-33	7.00'
T-34	11.04'
T-35	135.46'
T-36	9.91'
T-37	66.34'
T-38	85.38'
T-39	2.84'
T-40	6.99'

TANGENT SEGMENTS CURB TABLE	
NUMBER	LENGTH
T-41	129.74'
T-42	10.15'
T-43	52.38'
T-44	14.46'
T-45	12.76'
T-46	74.28'
T-47	13.89'
T-48	2.16'
T-49	9.36'
T-50	15.80'
T-51	15.17'
T-52	7.00'
T-53	4.52'
T-54	12.12'
T-55	30.18'
T-56	122.95'
T-57	136.40'
T-58	7.93'
T-59	4.86'
T-60	4.75'

TANGENT SEGMENTS CURB TABLE	
NUMBER	LENGTH
T-61	24.71'
T-62	9.83'
T-63	3.90'
T-64	9.04'
T-65	3.04'
T-66	38.07'
T-67	6.00'
T-68	19.87'
T-69	20.27'
T-70	19.82'
T-71	1.91'
T-72	115.87'
T-73	11.54'
T-74	40.54'
T-75	2.40'
T-76	14.19'
T-77	6.25'
T-78	11.99'
T-79	34.26'
T-80	13.61'

TANGENT SEGMENTS CURB TABLE	
NUMBER	LENGTH
T-81	9.49'
T-82	9.67'
T-83	23.41'
T-84	21.76'
T-85	20.26'
T-86	24.70'
T-87	20.31'
T-88	20.13'

CURVED SEGMENTS CURB TABLE			
NUMBER	LENGTH	RADIUS	TYPE
1	8.41'	10.00'	CURVED
2	8.66'	10.00'	CURVED
3	9.48'	10.00'	CURVED
4	8.95'	10.00'	CURVED
5	33.12'	160.00'	STRAIGHT
6	30.90'	148.00'	STRAIGHT
7	8.88'	10.00'	CURVED
8	10.61'	10.00'	CURVED
9	8.03'	10.00'	CURVED
10	7.55'	10.00'	CURVED
11	6.60'	10.00'	CURVED
12	10.74'	5.00'	CURVED
13	7.33'	73.00'	STRAIGHT
14	9.19'	8.00'	CURVED
15	6.71'	73.00'	STRAIGHT
16	10.09'	5.00'	CURVED
17	9.88'	8.00'	CURVED
18	12.05'	5.00'	CURVED
19	12.67'	8.00'	CURVED
20	9.52'	10.00'	CURVED

CURVED SEGMENTS CURB TABLE			
NUMBER	LENGTH	RADIUS	TYPE
21	10.27'	11.00'	CURVED
22	4.71'	6.00'	CURVED
23	6.26'	8.00'	CURVED
24	9.60'	5.00'	CURVED
25	18.96'	26.00'	STRAIGHT
26	7.97'	5.00'	CURVED
27	8.78'	10.00'	CURVED
28	8.78'	10.00'	CURVED
29	7.88'	10.00'	CURVED
30	11.43'	14.00'	CURVED
31	11.92'	12.00'	CURVED
32	8.78'	10.00'	CURVED
33	8.78'	10.00'	CURVED
34	9.98'	10.00'	CURVED
35	5.05'	10.00'	CURVED
36	6.64'	10.00'	CURVED
37	9.36'	40.00'	STRAIGHT
38	8.91'	40.00'	STRAIGHT
39	21.44'	20.00'	CURVED
40	10.45'	25.00'	CURVED

CURVED SEGMENTS CURB TABLE			
NUMBER	LENGTH	RADIUS	TYPE
41	10.44'	10.00'	CURVED
42	5.24'	5.00'	CURVED
43	10.56'	10.00'	CURVED
44	10.98'	7.00'	CURVED
45	6.45'	10.00'	CURVED
46	5.56'	10.00'	CURVED
47	5.61'	10.00'	CURVED
48	4.97'	10.00'	CURVED
49	6.13'	13.00'	CURVED
50	21.10'	10.00'	CURVED
51	10.17'	10.00'	CURVED
52	6.19'	6.00'	CURVED
53	10.33'	10.00'	CURVED
54	6.28'	6.00'	CURVED
55	2.93'	2.00'	CURVED
56	20.18'	200.00'	STRAIGHT
57	14.93'	22.00'	CURVED
58	12.19'	10.00'	CURVED
59	12.19'	10.00'	CURVED
60	12.35'	5.00'	CURVED

CURVED SEGMENTS CURB TABLE			
NUMBER	LENGTH	RADIUS	TYPE
61	10.35'	6.00'	CURVED
62	12.68'	12.00'	CURVED
63	4.00'	5.00'	CURVED
64	5.88'	5.00'	CURVED



DATE PLOTTED

6/1/2026

VHB PROJECT NO.

52852.00

MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS

TOWN OF MILFORD, NEW HAMPSHIRE

ROADWAY & CURBING LAYOUT PLANS

DRAWING

52852_CURB.dwg

STATE PROJECT NO.

42470

SHEET NO.

18

TOTAL SHEETS

24

REVISIONS AFTER PROPOSAL

STATION

STATION

DATE

NUMBER

DATE

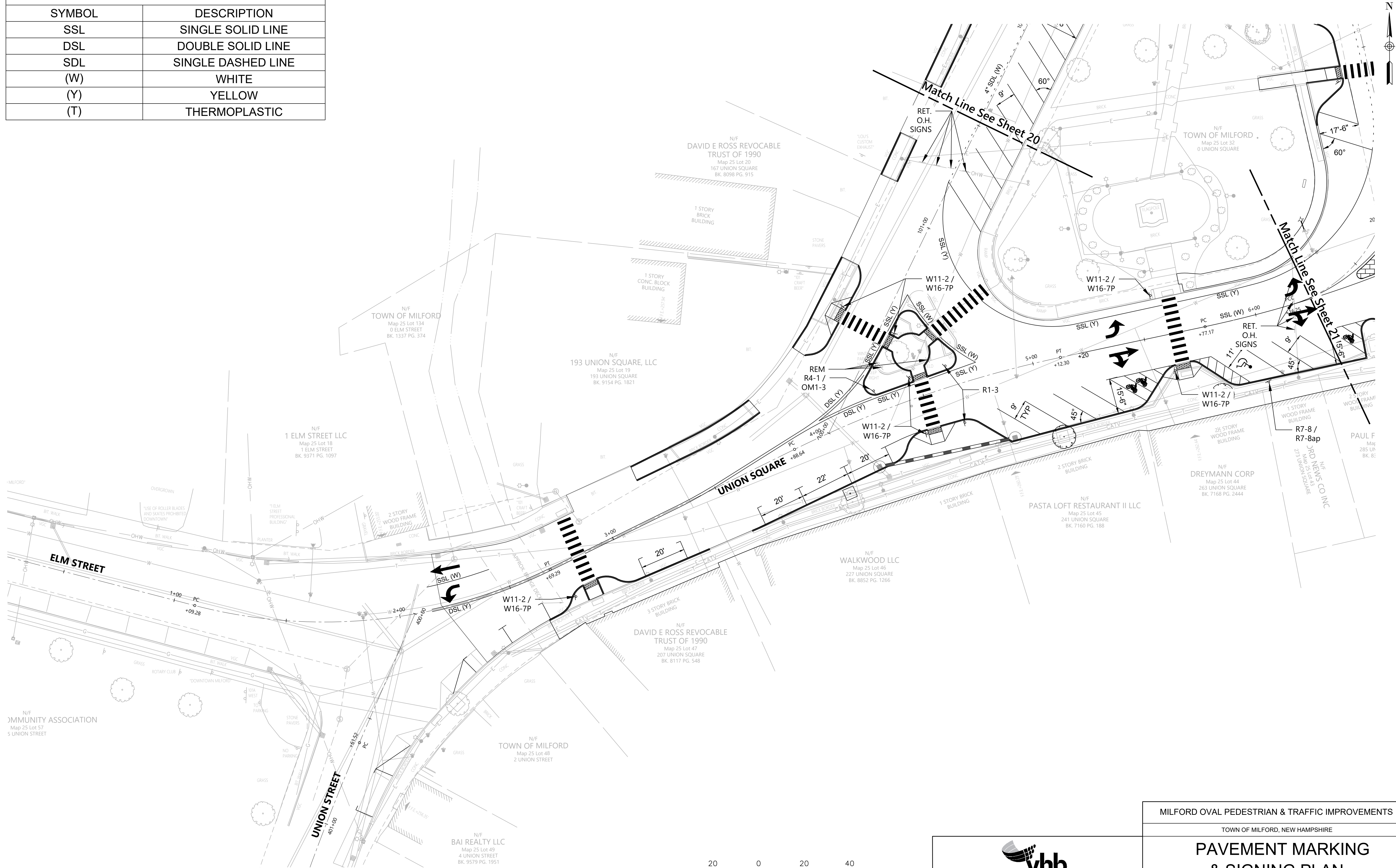
SDR PROCESSED
NEW DESIGN
SHEET CHECKED
AS BUILT DETAILS

DESCRIPTION	STATION	STATION	DATE	NUMBER

DATE	DATE	DATE	DATE

SIGN/PVMT. MARKING LEGEND

SYMBOL	DESCRIPTION
SSL	SINGLE SOLID LINE
DSL	DOUBLE SOLID LINE
SDL	SINGLE DASHED LINE
(W)	WHITE
(Y)	YELLOW
(T)	THERMOPLASTIC



MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS					
TOWN OF MILFORD, NEW HAMPSHIRE					
PAVEMENT MARKING & SIGNING PLAN					
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6/1/2026	52852.00	52852_PMSIGN.dwg	42470	19	24

REVISIONS AFTER PROPOSAL

DESCRIPTION

STATION

STATION

DATE

NUMBER

DATE

SDR PROCESSED

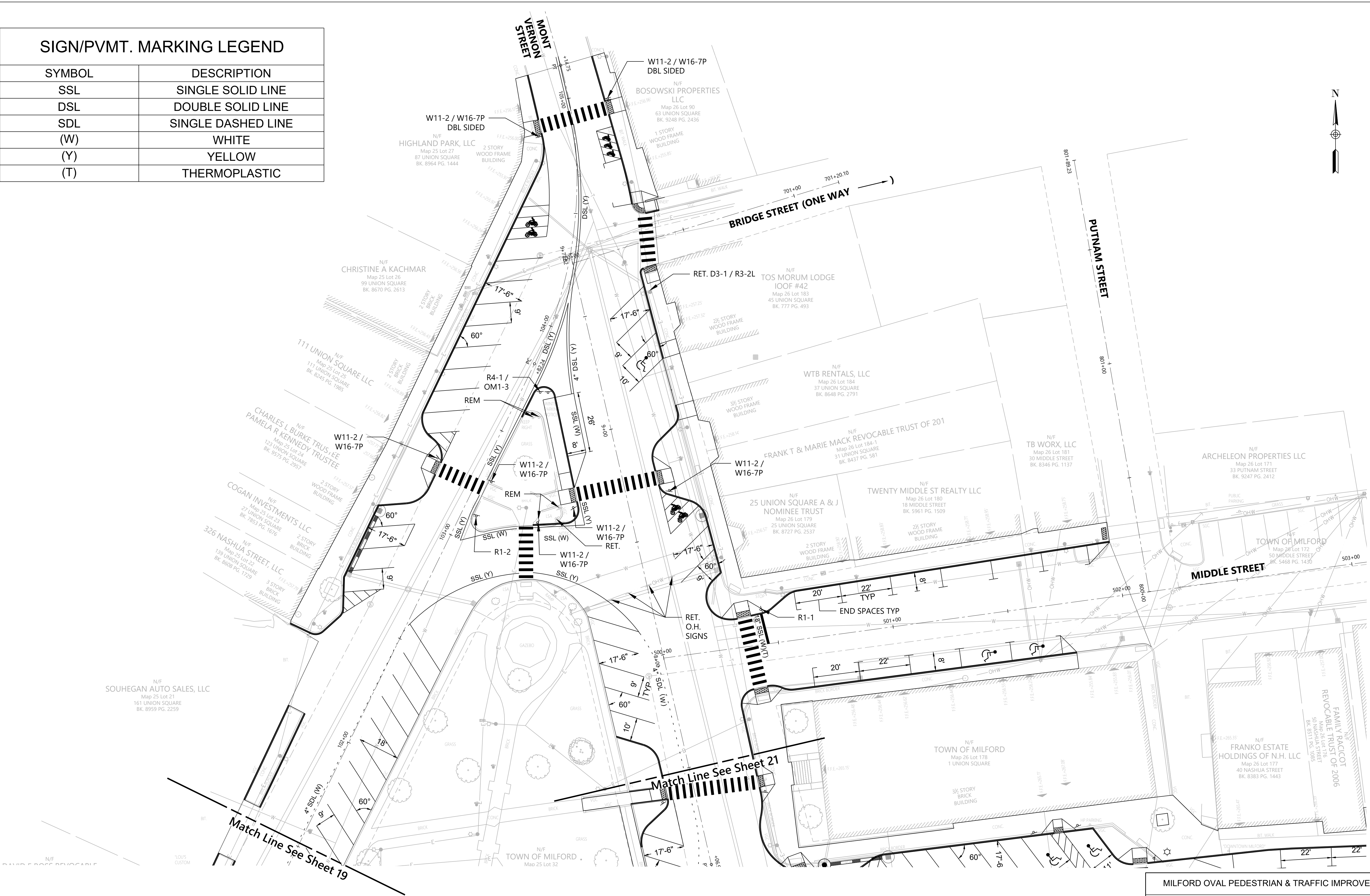
NEW DESIGN

SHEET CHECKED

AS BUILT DETAILS

SIGN/PVMT. MARKING LEGEND

SYMBOL	DESCRIPTION
SSL	SINGLE SOLID LINE
DSL	DOUBLE SOLID LINE
SDL	SINGLE DASHED LINE
(W)	WHITE
(Y)	YELLOW
(T)	THERMOPLASTIC



MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS					
TOWN OF MILFORD, NEW HAMPSHIRE					
PAVEMENT MARKING & SIGNING PLAN					
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6/1/2026	52852.00	52852_PMSIGN.dwg	42470	20	24

REVISIONS: AFTER PROPOSAL

STATION

STATION

DATE

NUMBER

DATE

SDR PROCESSED
NEW DESIGN
SHEET CHECKED
AS BUILT DETAILS

DESCRIPTION

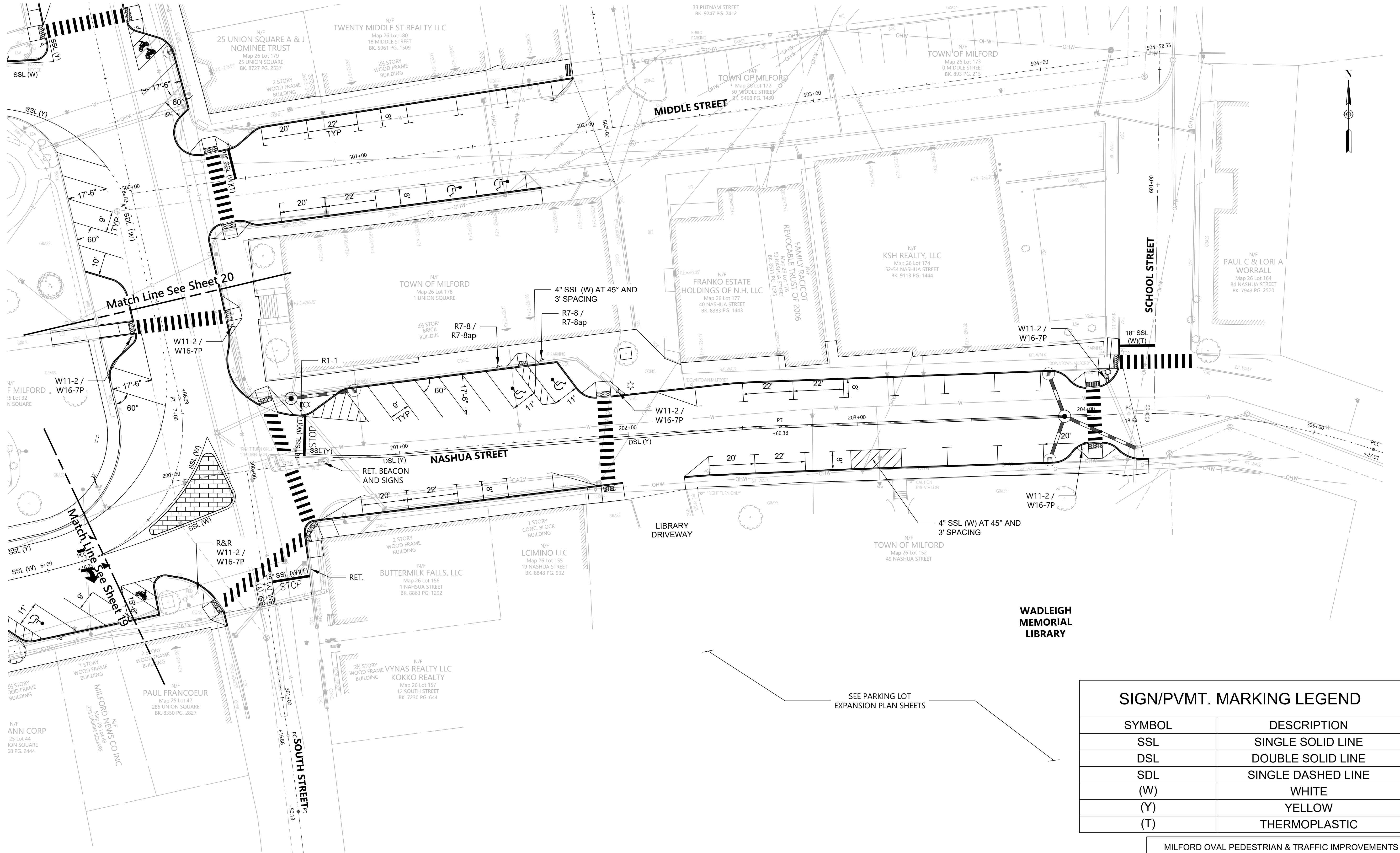
STATION

DATE

NUMBER

DATE

DATE



WADLEIGH
MEMORIAL
LIBRARY

SEE PARKING LOT
EXPANSION PLAN SHEETS

SIGN/PVMT. MARKING LEGEND

SYMBOL	DESCRIPTION
SSL	SINGLE SOLID LINE
DSL	DOUBLE SOLID LINE
SDL	SINGLE DASHED LINE
(W)	WHITE
(Y)	YELLOW
(T)	THERMOPLASTIC



MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS					
TOWN OF MILFORD, NEW HAMPSHIRE					
PAVEMENT MARKING & SIGNING PLAN					
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6/1/2026	52852.00	52852_PMSIGN.dwg	42470	21	24

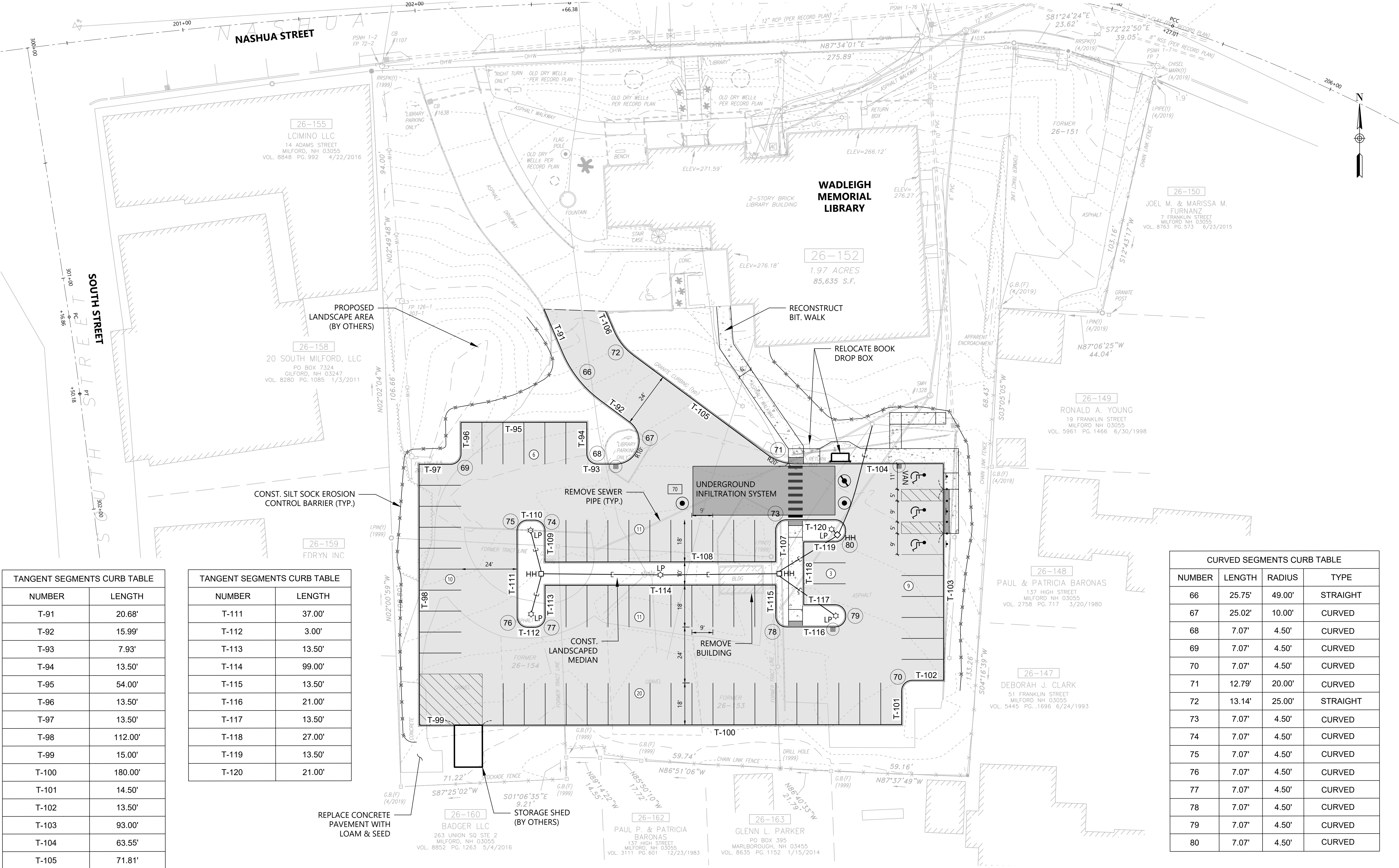
REVISIONS AFTER PROPOSAL		DESCRIPTION	
NUMBER	DATE	STATION	STATION

SDR PROCESSED	DATE
NEW DESIGN	DATE
SHEET CHECKED	DATE
AS BUILT DETAILS	DATE

TANGENT SEGMENTS CURB TABLE	
NUMBER	LENGTH
T-91	20.68'
T-92	15.99'
T-93	7.93'
T-94	13.50'
T-95	54.00'
T-96	13.50'
T-97	13.50'
T-98	112.00'
T-99	15.00'
T-100	180.00'
T-101	14.50'
T-102	13.50'
T-103	93.00'
T-104	63.55'
T-105	71.81'
T-106	9.35'
T-107	13.50'
T-108	99.00'
T-109	13.50'
T-110	3.00'

TANGENT SEGMENTS CURB TABLE	
NUMBER	LENGTH
T-111	37.00'
T-112	3.00'
T-113	13.50'
T-114	99.00'
T-115	13.50'
T-116	21.00'
T-117	13.50'
T-118	27.00'
T-119	13.50'
T-120	21.00'

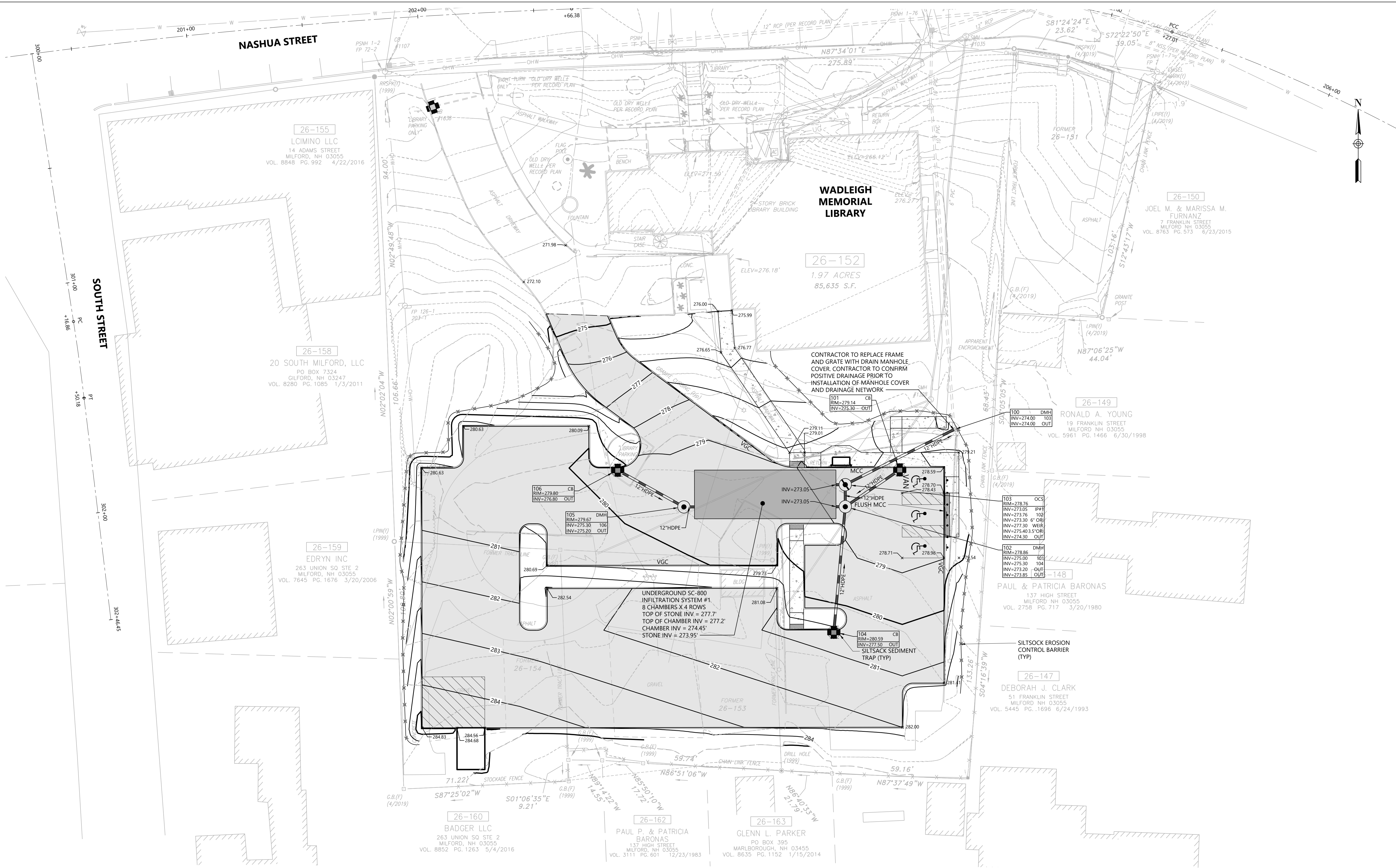
CURVED SEGMENTS CURB TABLE			
NUMBER	LENGTH	RADIUS	TYPE
66	25.75'	49.00'	STRAIGHT
67	25.02'	10.00'	CURVED
68	7.07'	4.50'	CURVED
69	7.07'	4.50'	CURVED
70	7.07'	4.50'	CURVED
71	12.79'	20.00'	CURVED
72	13.14'	25.00'	STRAIGHT
73	7.07'	4.50'	CURVED
74	7.07'	4.50'	CURVED
75	7.07'	4.50'	CURVED
76	7.07'	4.50'	CURVED
77	7.07'	4.50'	CURVED
78	7.07'	4.50'	CURVED
79	7.07'	4.50'	CURVED
80	7.07'	4.50'	CURVED



DATE PLOTTED	VHB PROJECT NO.
6/1/2026	52852.00

MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS					
TOWN OF MILFORD, NEW HAMPSHIRE					
LIBRARY SITE GENERAL PLAN					
DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
52852_GEN.dwg	42470	22	24		

SDR PROCESSED	REVISIONS AFTER PROPOSAL			
	NUMBER	DATE	STATION	DESCRIPTION
	DATE	DATE	STATION	DESCRIPTION
	DATE	DATE	STATION	DESCRIPTION



MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS					
TOWN OF MILFORD, NEW HAMPSHIRE					
GRADING AND DRAINAGE PLAN					
DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6/1/2026	52852.00	52852_LIBRARY_GRADE.dwg	-	23	24



MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS			
TOWN OF MILFORD, NEW HAMPSHIRE			
CLINTON STREET PARKING LOT GENERAL PLAN			
DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
52852_GEN.dwg	42470	24	24



Computations

Project: #42470 - Milford Downtown Oval

Project #: 52852.00

Location: Milford, NH

Calculated by: ALB

Date: 6/3/2026

Checked by: GLB

Date: 6/5/2026

Title: Quantity Calculations

Preliminary Engineer's Estimate of Probable Cost

Item No.	Item Description	Quantity Total	Unit	Unit Cost	Cost
201.21	REMOVING SMALL TREES	1	EA	\$ 1,300.00	\$ 1,300.00
202.41	REMOVAL OF EXISTING PIPE 0-24" DIAMETER	6	LF	\$ 105.00	\$ 630.00
202.5	REMOVAL OF CATCH BASINS, DROP INLETS, AND MANHOLES	1	EA	\$ 1,200.00	\$ 1,200.00
202.6	CURB REMOVAL FOR SALVAGE	2,700	LF	\$ 12.00	\$ 32,400.00
203.3	UNCLASSIFIED EXCAVATION	800	CY	\$ 30.00	\$ 24,000.00
206.1	COMMON STRUCTURE EXCAVATION	1	CY	\$ 40.00	\$ 40.00
206.19	COMMON STRUCTURE EXCAVATION EXPLORATORY	30	CY	\$ 50.00	\$ 1,500.00
209.1	GRANULAR BACKFILL	20	CY	\$ 80.00	\$ 1,600.00
214.	FINE GRADING	1	U	\$ 15,000.00	\$ 15,000.00
304.1	SAND (F)	15	CY	\$ 45.00	\$ 675.00
304.4	CRUSHED STONE (FINE GRADATION) (F)	480	CY	\$ 60.00	\$ 28,800.00
304.5	CRUSHED STONE (COARSE GRADATION) (F)	15	CY	\$ 60.00	\$ 900.00
403.11043	HBP-1/2" SURFACE MIX, MACHINE METHOD	800	TON	\$ 145.00	\$ 116,000.00
403.12	HBP-HAND METHOD	55	TON	\$ 250.00	\$ 13,750.00
403.16	PAVEMENT JOINT ADHESIVE	7,130	LF	\$ 1.10	\$ 7,843.00
410.22	ASPHALT EMULSION FOR TACK COAT	560	GAL	\$ 12.00	\$ 6,720.00
417.	COLD PLANING BITUMINOUS SURFACES	9,200	SY	\$ 15.00	\$ 138,000.00
603.00412	12" R.C. PIPE, 3750D	175	LF	\$ 180.00	\$ 31,500.00
604.0007	POLYETHYLENE LINER	7	EA	\$ 250.00	\$ 1,750.00
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	8	U	\$ 6,000.00	\$ 48,000.00
604.324	DRAINAGE MANHOLES, 4-FOOT DIAMETER	2	U	\$ 5,000.00	\$ 10,000.00
604.325	DRAINAGE MANHOLES, 5-FOOT DIAMETER	2	U	\$ 6,300.00	\$ 12,600.00
604.49	MODIFY CATCH BASINS & DROP INLETS	2	U	\$ 5,000.00	\$ 10,000.00
604.62	DRAINAGE MANHOLE COVERS AND FRAMES	2	EA	\$ 1,085.00	\$ 2,170.00
604.72	GRATES & FRAMES, TYPE B	1	EA	\$ 975.00	\$ 975.00
608.249	BRICK SIDEWALK	170	SY	\$ 250.00	\$ 42,500.00
608.259	REMOVE AND RESET BRICK SIDEWALK	30	SY	\$ 150.00	\$ 4,500.00
608.34	4" REINFORCED CONCRETE SIDEWALK (F)	2,340	SY	\$ 75.00	\$ 175,500.00
608.36	6" REINFORCED CONCRETE SIDEWALK (F)	205	SY	\$ 100.00	\$ 20,500.00
608.54	DETECTABLE WARNING DEVICES, CAST IRON	40	SY	\$ 550.00	\$ 22,000.00
609.01	STRAIGHT GRANITE CURB	2,260	LF	\$ 50.00	\$ 113,000.00
609.02	CURVED GRANITE CURB	510	LF	\$ 60.00	\$ 30,600.00
611.811	ADJUST/RELOCATE HYDRANTS	1	EA	\$ 3,600.00	\$ 3,600.00
614.511	CONCRETE PULL BOX 14"	6	EA	\$ 1,500.00	\$ 9,000.00
614.72114	2" PVC CONDUIT, SCHEDULE 40	710	LF	\$ 20.00	\$ 14,200.00
615.0301	TRAFFIC SIGN TYPE C	235	SF	\$ 100.00	\$ 23,490.00
615.033	REMOVING TRAFFIC SIGN, TYPE C	12	U	\$ 85.00	\$ 1,020.00
618.61	UNIFORMED OFFICERS WITH VEHICLE	31,000	\$	\$ 1.00	\$ 31,000.00
618.7	FLAGGERS	1,920	HR	\$ 70.00	\$ 134,400.00
619.1	MAINTENANCE OF TRAFFIC	1	U	\$ 100,000.00	\$ 100,000.00
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	4	U	\$ 20,000.00	\$ 80,000.00
625.525	STREET LIGHTS INCLUDING POLES, FOUNDATIONS AND LUMINAIRES	19	EA	\$ 15,000.00	\$ 285,000.00
628.1	SAWED CONCRETE PAVEMENT	40	LF	\$ 14.00	\$ 560.00
628.2	SAWED BITUMINOUS PAVEMENT	900	LF	\$ 8.00	\$ 7,200.00
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	10,450	LF	\$ 0.60	\$ 6,270.00
632.0112	RETROREFLECTIVE PAINT PAVE. MARKING, 12" LINE	1,120	LF	\$ 2.65	\$ 2,968.00
632.0299	IMPRINTED PAVEMENT SURFACE PATTERN	540	SF	\$ 20.00	\$ 10,800.00
632.3118	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 18" LINE	65	LF	\$ 12.00	\$ 780.00
632.32	RETROREFLECT. THERMOPLAS. PAVEMENT MARKING, SYMBOL OR WORD	230	SF	\$ 12.30	\$ 2,829.00
645.533	INLET FILTER BASKETS	26	EA	\$ 300.00	\$ 7,800.00



Computations

Project: #42470 - Milford Downtown Oval

Project #: 52852.00

Location: Milford, NH

Calculated by: ALB

Date: 6/3/2026

Checked by: GLB

Date: 6/5/2026

Title: Quantity Calculations

Preliminary Engineer's Estimate of Probable Cost

Item No.	Item Description	Quantity Total	Unit	Unit Cost	Cost
645.7	STORM WATER POLLUTION PREVENTION PLAN	1	U	\$ 5,000.00	\$ 5,000.00
645.71	WATER QUALITY MONITORING, INSPECTION, AND REPORTING	100	HR	\$ 215.00	\$ 21,500.00
650.201	LANDSCAPING	1	U	\$ 8,000.00	\$ 8,000.00
670.448	8" x 8" GRANITE BOLLARD	5	EA	\$ 1,200.00	\$ 6,000.00
670.449	RESET GRANITE BOLLARD	5	EA	\$ 400.00	\$ 2,000.00
692.	MOBILIZATION	1	U	\$ 90,000.00	\$ 90,000.00
1010.15	FUEL ADJUSTMENT	20,000	\$	\$ 1.00	\$ 20,000.00

BASE CONSTRUCTION SUBTOTAL \$ 1,789,370

MISCELLANEOUS ITEMS AND FINAL DESIGN ADDITIONS (5%) \$ 89,469

CONSTRUCTION CONTINGENCY (10%) \$ 178,937

CONSTRUCTION SUBTOTAL WITH CONTINGENCIES \$ 2,057,776

CONSTRUCTION ENGINEERING, TESTING, AND CONTRACT ADMINISTRATION (12%) \$ 246,933

ROUNDED PRELIMINARY RESTIMATE TOTAL \$ 2,305,000



Computations

Project: #42470 - Milford Library Lot

Project #: 52852.00

Location: Milford, NH

Calculated by: ALB

Date: 6/3/2026

Checked by: GLB

Date: 6/8/2026

Preliminary Engineer's Estimate of Probable Cost

Title: Quantity Calculations

Item No.	Item Description	Quantity Total	Unit	Unit Cost	Cost
201.21	REMOVING SMALL TREES	1	EA	\$ 1,300.00	\$ 1,300.00
202.41	REMOVAL OF EXISTING PIPE 0-24" DIAMETER	160	LF	\$ 105.00	\$ 16,800.00
202.6	CURB REMOVAL FOR SALVAGE	500	LF	\$ 12.00	\$ 6,000.00
203.1	COMMON EXCAVATION	1,950	CY	\$ 30.00	\$ 58,500.00
203.2	ROCK EXCAVATION	20	CY	\$ 50.00	\$ 1,000.00
203.6	EMBANKMENT-IN-PLACE (F)	50	CY	\$ 30.00	\$ 1,500.00
206.1	COMMON STRUCTURE EXCAVATION	5	CY	\$ 40.00	\$ 200.00
206.19	COMMON STRUCTURE EXCAVATION EXPLORATORY	20	CY	\$ 50.00	\$ 1,000.00
209.1	GRANULAR BACKFILL	50	CY	\$ 80.00	\$ 4,000.00
214.	FINE GRADING	1	U	\$ 16,000.00	\$ 16,000.00
304.3	CRUSHED GRAVEL (F)	980	CY	\$ 60.00	\$ 58,800.00
304.4	CRUSHED STONE (FINE GRADATION) (F)	30	CY	\$ 60.00	\$ 1,800.00
403.11013	HBP-1" BASE MIX, MACHINE METHOD	420	TON	\$ 130.00	\$ 54,600.00
403.11043	HBP-1/2" SURFACE MIX, MACHINE METHOD	260	TON	\$ 145.00	\$ 37,700.00
410.22	ASPHALT EMULSION FOR TACK COAT	180	GAL	\$ 12.00	\$ 2,160.00
603.82312	12" HDPE PIPE (TYPE S)	170	LF	\$ 120.00	\$ 20,400.00
604.0007	POLYETHYLENE LINER	3	EA	\$ 250.00	\$ 750.00
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	4	U	\$ 6,000.00	\$ 24,000.00
604.324	DRAINAGE MANHOLES, 4-FOOT DIAMETER	3	U	\$ 5,000.00	\$ 15,000.00
604.62	DRAINAGE MANHOLE COVERS AND FRAMES	1	EA	\$ 1,085.00	\$ 1,085.00
604.9101	OUTLET CONTROL STRUCTURE	1	U	\$ 8,000.00	\$ 8,000.00
604.95	STORMWATER INFILTRATION SYSTEM	1	U	\$ 60,000.00	\$ 60,000.00
608.34	4" REINFORCED CONCRETE SIDEWALK (F)	145	SY	\$ 75.00	\$ 10,875.00
608.36	6" REINFORCED CONCRETE SIDEWALK (F)	30	SY	\$ 100.00	\$ 3,000.00
608.54	DETECTABLE WARNING DEVICES, CAST IRON	8	SY	\$ 550.00	\$ 4,510.00
609.01	STRAIGHT GRANITE CURB	1,150	LF	\$ 50.00	\$ 57,500.00
609.02	CURVED GRANITE CURB	120	LF	\$ 60.00	\$ 7,200.00
614.511	CONCRETE PULL BOX 14"	3	EA	\$ 1,500.00	\$ 4,500.00
614.72114	2" PVC CONDUIT, SCHEDULE 40	190	LF	\$ 20.00	\$ 3,800.00
614.72118	2" PVC CONDUIT, SCHEDULE 80	50	LF	\$ 30.00	\$ 1,500.00
615.0301	TRAFFIC SIGN TYPE C	8	SF	\$ 100.00	\$ 800.00
618.7	FLAGGERS	200	HR	\$ 70.00	\$ 14,000.00
619.1	MAINTENANCE OF TRAFFIC	1	U	\$ 10,000.00	\$ 10,000.00
625.525	STREET LIGHTS INCLUDING POLES, FOUNDATIONS AND LUMINAIRES	5	EA	\$ 12,000.00	\$ 60,000.00
628.1	SAWED CONCRETE PAVEMENT	7	LF	\$ 14.00	\$ 98.00
628.2	SAWED BITUMINOUS PAVEMENT	40	LF	\$ 8.00	\$ 320.00
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	2,500	LF	\$ 0.60	\$ 1,500.00
632.0112	RETROREFLECTIVE PAINT PAVE. MARKING, 12" LINE	55	LF	\$ 2.65	\$ 145.75
632.32	RETROREFLECT. THERMOPLAS. PAVEMENT MARKING, SYMBOL OR WORD	11	SF	\$ 12.00	\$ 132.00
645.512	COMPOST SOCK FOR PERIMETER BERM	470	LF	\$ 8.00	\$ 3,760.00
645.533	INLET FILTER BASKETS	5	EA	\$ 300.00	\$ 1,500.00
645.7	STORM WATER POLLUTION PREVENTION PLAN	1	U	\$ 3,000.00	\$ 3,000.00
645.71	WATER QUALITY MONITORING, INSPECTION, AND REPORTING	80	HR	\$ 150.00	\$ 12,000.00
646.51	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS AND LOAM	1,050	SY	\$ 12.00	\$ 12,600.00



Computations

Project: #42470 - Milford Library Lot

Project #: 52852.00

Location: Milford, NH

Calculated by: ALB

Date: 6/3/2026

Checked by: GLB

Date: 6/8/2026

Preliminary Engineer's Estimate of Probable Cost

Title: Quantity Calculations

Item No.	Item Description	Quantity Total	Unit	Unit Cost	Cost
670.42	CONCRETE FILLED BOLLARD	4	EA	\$ 500.00	\$ 2,000.00
670.422	CONCRETE FILLED BOLLARDS WITH SIGN	3	U	\$ 600.00	\$ 1,800.00
692.	MOBILIZATION	1	U	\$ 40,000.00	\$ 40,000.00
1010.15	FUEL ADJUSTMENT	10,000	\$	\$ 1.00	\$ 10,000.00

BASE CONSTRUCTION SUBTOTAL \$ 657,136

MISCELLANEOUS ITEMS AND FINAL DESIGN ADDITIONS (5%) \$ 32,857

CONSTRUCTION CONTINGENCY (10%) \$ 65,714

CONSTRUCTION SUBTOTAL WITH CONTINGENCIES \$ 755,706

CONSTRUCTION ENGINEERING, TESTING, AND CONTRACT ADMINISTRATION (12%) \$ 90,685

ROUNDED PRELIMINARY ESTIMATE TOTAL \$ 846,000



Computations

Project: #42470 - Milford - Clinton St Lot

Project #: 52852.00

Location: Milford, NH

Calculated by: ALB

Date: 6/3/2026

Checked by: GLB

Date: 6/8/2026

Preliminary Engineer's Estimate of Probable Cost

Title: Quantity Calculations

Item No.	Item Description	Quantity Total	Unit	Unit Cost	Cost
202.6	CURB REMOVAL FOR SALVAGE	90	LF	\$ 12.00	\$ 1,079.99
203.1	COMMON EXCAVATION	580	CY	\$ 30.00	\$ 17,400.00
203.2	ROCK EXCAVATION	5	CY	\$ 50.00	\$ 250.00
206.19	COMMON STRUCTURE EXCAVATION EXPLORATORY	30	CY	\$ 40.00	\$ 1,200.00
209.1	GRANULAR BACKFILL	20	CY	\$ 80.00	\$ 1,600.00
214.	FINE GRADING	1	U	\$ 7,000.00	\$ 7,000.00
304.3	CRUSHED GRAVEL (F)	300	CY	\$ 60.00	\$ 18,000.00
304.4	CRUSHED STONE (FINE GRADATION) (F)	45	CY	\$ 60.00	\$ 2,700.00
403.11013	HBP-1" BASE MIX, MACHINE METHOD	160	TON	\$ 130.00	\$ 20,800.00
403.11043	HBP-1/2" SURFACE MIX, MACHINE METHOD	100	TON	\$ 145.00	\$ 14,500.00
410.22	ASPHALT EMULSION FOR TACK COAT	70	GAL	\$ 12.00	\$ 840.00
603.00312	12" R.C. PIPE, 3000D	149	LF	\$ 200.00	\$ 29,800.00
604.0007	POLYETHYLENE LINER	3	EA	\$ 250.00	\$ 750.00
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	4	U	\$ 6,000.00	\$ 24,000.00
604.324	DRAINAGE MANHOLES, 4-FOOT DIAMETER	1	U	\$ 5,000.00	\$ 5,000.00
608.34	4" REINFORCED CONCRETE SIDEWALK (F)	245	SY	\$ 75.00	\$ 18,375.00
608.36	6" REINFORCED CONCRETE SIDEWALK (F)	25	SY	\$ 100.00	\$ 2,500.00
608.54	DETECTABLE WARNING DEVICES, CAST IRON	8	SY	\$ 550.00	\$ 4,288.17
609.01	STRAIGHT GRANITE CURB	460	LF	\$ 45.00	\$ 20,700.00
609.02	CURVED GRANITE CURB	70	LF	\$ 55.00	\$ 3,850.00
609.214	STRAIGHT GRANITE SLOPE CURB, 4" HIGH	120	LF	\$ 40.00	\$ 4,800.00
609.234	CURVED GRANITE SLOPE CURB 4" HIGH	10	LF	\$ 150.00	\$ 1,500.00
614.72114	2" PVC CONDUIT, SCHEDULE 40	53	LF	\$ 20.00	\$ 1,060.00
615.0301	TRAFFIC SIGN TYPE C	23	SF	\$ 100.00	\$ 2,300.00
618.7	FLAGGERS	260	HR	\$ 70.00	\$ 18,200.00
619.1	MAINTENANCE OF TRAFFIC	1	U	\$ 8,000.00	\$ 8,000.00
625.525	STREET LIGHTS INCLUDING POLES, FOUNDATIONS AND LUMINAIRES	1	EA	\$ 15,000.00	\$ 15,000.00
628.1	SAWED CONCRETE PAVEMENT	30	LF	\$ 14.00	\$ 420.00
628.2	SAWED BITUMINOUS PAVEMENT	100	LF	\$ 8.00	\$ 800.00
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	790	LF	\$ 0.60	\$ 474.00
632.0112	RETROREFLECTIVE PAINT PAVE. MARKING, 12" LINE	105	LF	\$ 2.65	\$ 278.25
632.3118	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 18" LINE	50	LF	\$ 10.75	\$ 537.50
632.32	RETROREFLECT. THERMOPLAS. PAVEMENT MARKING, SYMBOL OR WORD	57	SF	\$ 12.00	\$ 684.00
645.533	INLET FILTER BASKETS	3	EA	\$ 300.00	\$ 900.00
645.7	STORM WATER POLLUTION PREVENTION PLAN	1	U	\$ 2,000.00	\$ 2,000.00
645.71	WATER QUALITY MONITORING, INSPECTION, AND REPORTING	24	HR	\$ 150.00	\$ 3,600.00
662.283	ADJUSTING MONTIORING WELL COVERS SET BY OTHERS	3	EA	\$ 500.00	\$ 1,500.00
692.	MOBILIZATION	1	U	\$ 10,000.00	\$ 10,000.00

BASE CONSTRUCTION SUBTOTAL \$ 266,687

MISCELLANEOUS ITEMS AND FINAL DESIGN ADDITIONS (5%) \$ 13,334

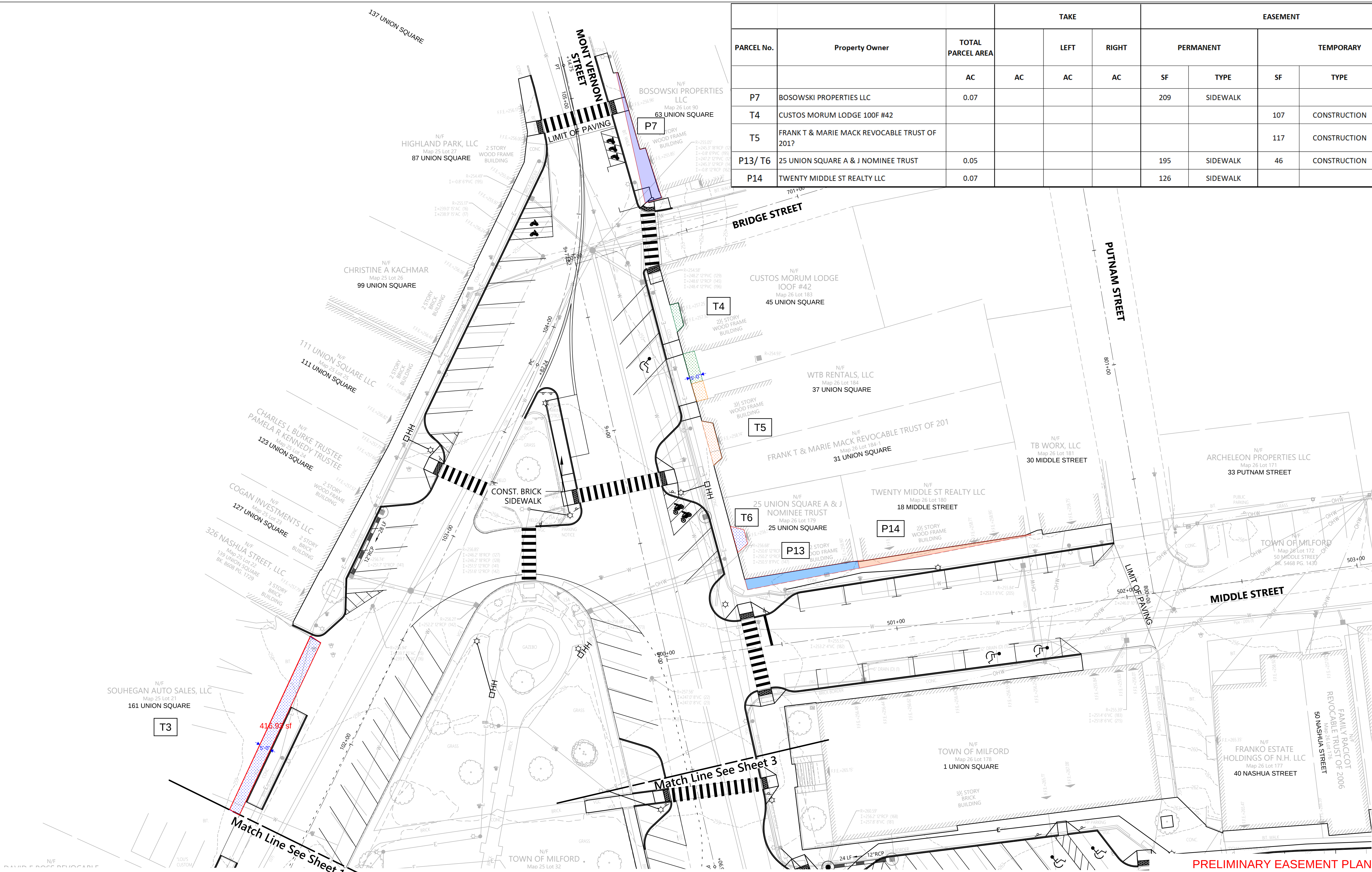
CONSTRUCTION CONTINGENCY (10%) \$ 26,669

CONSTRUCTION SUBTOTAL WITH CONTINGENCIES \$ 306,690

CONSTRUCTION ENGINEERING, TESTING, AND CONTRACT ADMINISTRATION (12%) \$ 36,803

ROUNDED PRELIMINARY ESTIMATE TOTAL \$ 343,000

SDR PROCESSED	REVISIONS AFTER PROPOSAL				
	DATE	NUMBER	DATE	STATION	DESCRIPTION
	NEW DESIGN				
	SHEET CHECKED				
AS BUILT DETAILS	DATE				



	MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS			
	TOWN OF MILFORD, NEW HAMPSHIRE			
GENERAL PLANS		DRAWING		STATE PROJECT NO.
DATE PLOTTED		VHB PROJECT NO.		SHEET NO.
4/3/2025		52852.00		10
		52852_GEN.dwg		TOTAL SHEETS
		-		23

REVISIONS: AFTER PROPOSAL

STATION

DESCRIPTION

STATION

DATE

NUMBER

DATE

NEW DESIGN

SHEET CHECKED

AS BUILT DETAILS

DATE

DATE

DATE

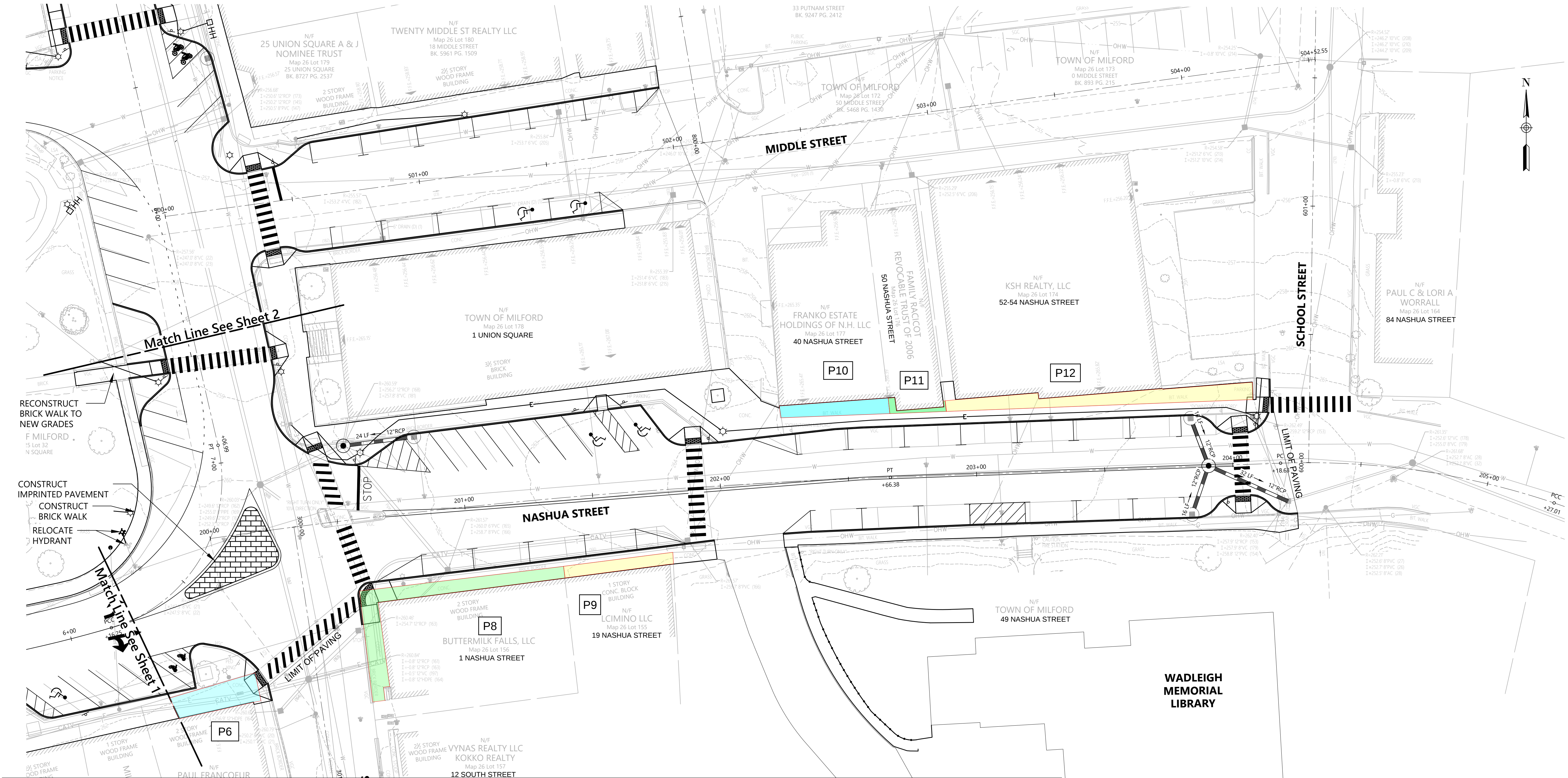
DATE

DATE

DATE

DATE

DATE



			TAKE			EASEMENT				
PARCEL No.	Property Owner	TOTAL PARCEL AREA		LEFT	RIGHT	PERMANENT		TEMPORARY		
		AC	AC	AC	AC	SF	TYPE	SF	TYPE	EXPIRES
P8	BUTTERMILK FALLS LLC	0.09				655	SIDEWALK			
P9	LCIMINO LLC	0.09				194	SIDEWALK			
P10	FRANKO ESTATE HOLDINGS OF NH LLC	0.11				225	SIDEWALK			
P11	FAMILY RACICOT REVOCABLE TRUST OF 2006	0.05				45	SIDEWALK			
P12	KSH REALTY, LLC	0.28				612	SIDEWALK			

PRELIMINARY EASEMENT PLANS

MILFORD OVAL PEDESTRIAN & TRAFFIC IMPROVEMENTS

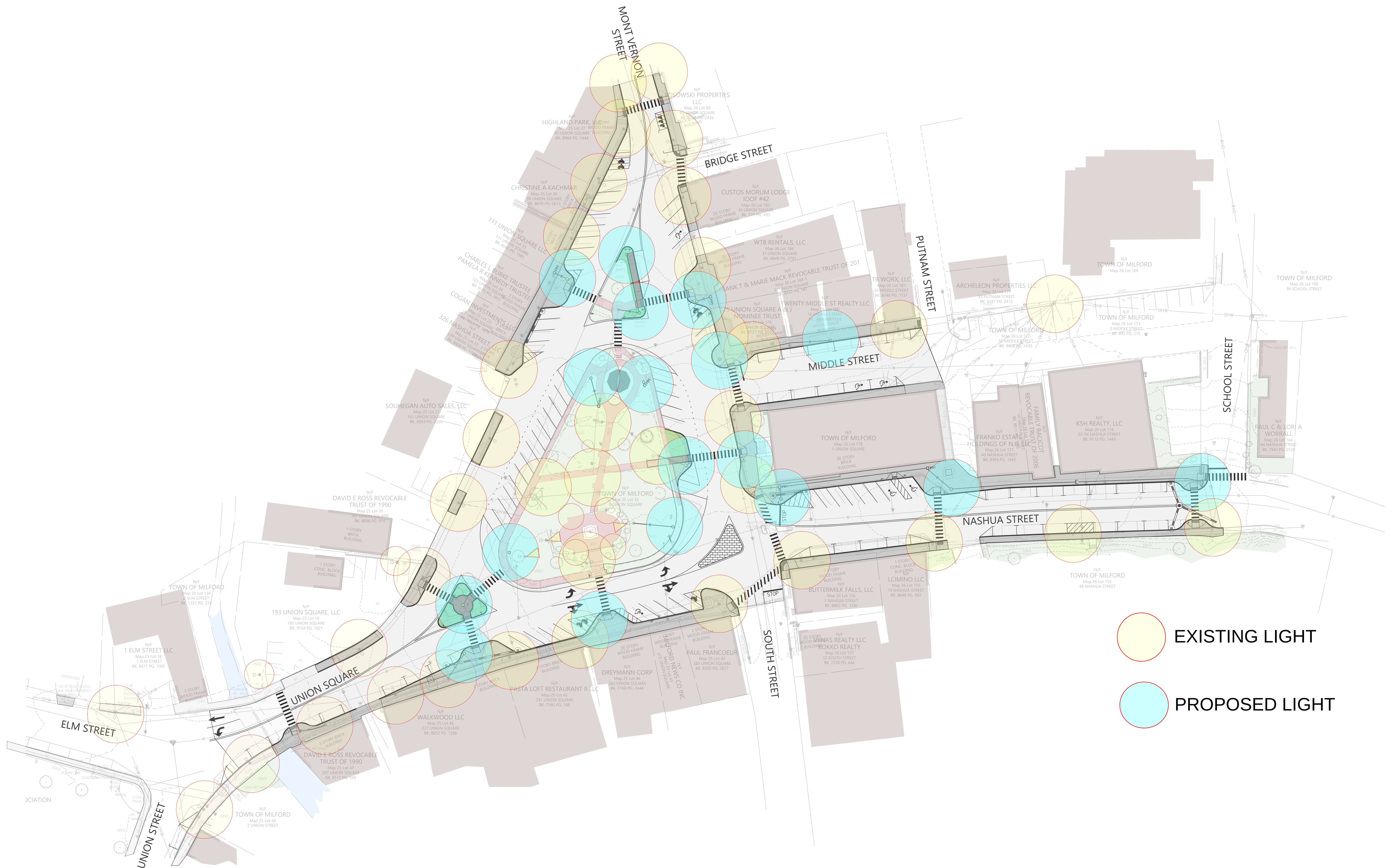
TOWN OF MILFORD, NEW HAMPSHIRE

GENERAL PLANS



DATE PLOTTED	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
4/3/2025	52852.00	52852_GEN.dwg	-	11	23





Milford, NH
Milford Oval Pedestrian & Traffic Improvements
Preliminary Plan

FIGURE 1