# WATERVILLE CONNECTING TRAIL
# ALONG MESSALONSKEE STREAM
# CITY OF WATERVILLE, ME

FINAL PLANS

MAY 2009

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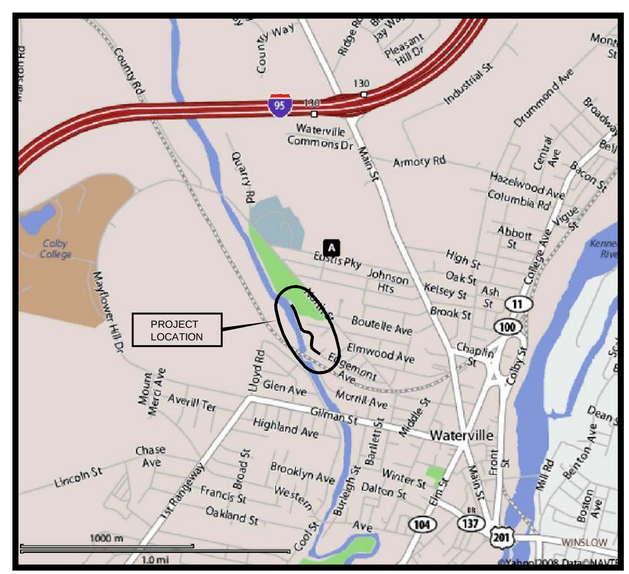


LOCUS PLAN

SCALE: 1"=500' (APPROX.)

PLANS PREPARED BY:


S E A

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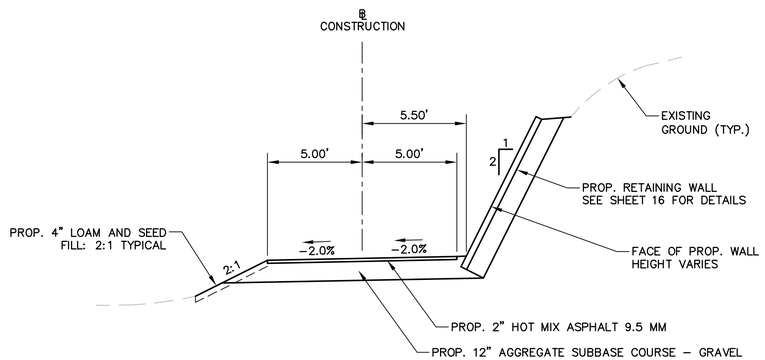
Scientists/Engineers/Architects

CAMBRIDGE, MASSACHUSETTS
FRAMINGHAM, MASSACHUSETTS
CONCORD, NEW HAMPSHIRE
ROCKY HILL, CONNECTICUT
AUGUSTA, MAINE

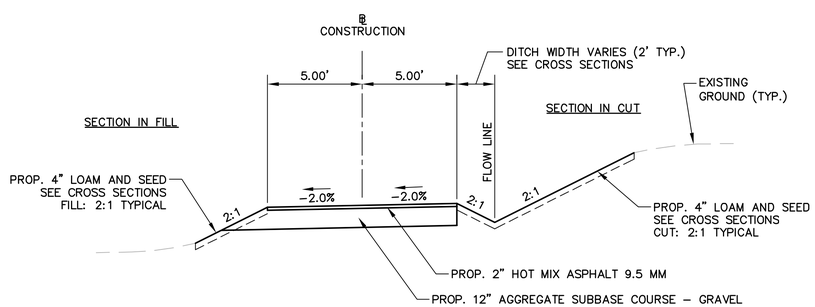

PLANS PREPARED FOR:

CITY OF WATERVILLE
DEPARTMENT OF PUBLIC WORKS
6 WENTWORTH COURT
WATERVILLE, ME 04901




## TYPICAL PATHWAY SECTION ALONG WALL

STA. 21+60 TO STA. 22+20
STA. 22+30 TO STA. 22+60
STA. 22+90 TO STA. 24+00
SCALE: 1"=4'




## TYPICAL PATHWAY SECTION

STA. 10+40 TO STA. 21+60±
STA. 23+90± TO STA. 25+00±
SCALE: 1"=4'

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| Scale | AS NOTED |
| Date | 05/06/ 2009 |
| Job No. | 2009009 |
| Designed by | JRB |
| Drawn by | JRB |
| Checked by | KSW |
| Approved by | PLH |

Client: CITY OF WATERVILLE, ME

Project: WATERVILLE CONNECTING TRAIL

Drawing: TYPICAL SECTIONS

Sheet 2



PLOT DATE=5/8/2009 9:40:24 AM USER=JOHN BLACKBURN FILENAME=I:_clients\Waterville ME\2009009.01-A - Waterville Connector Trail Design\00\dwg\2009009 Typical & Details.dwg

ESTIMATED QUANTITIES

| ITEM NO. | DESCRIPTION | QUANTITY | UNIT |
|---|---|---|---|
| 203.20 | COMMON EXCAVATION | 500 | CY |
| 203.24 | COMMON BORROW | 750 | CY |
| 304.09 | AGGREGATE BASE COURSE - CRUSHED | 30 | CY |
| 304.10 | AGGREGATE SUBBASE COURSE GRAVEL | 600 | CY |
| 403.209 | HOT MIX ASPHALT, 9.5 MM (SIDEWALKS, DRIVES, ISLANDS, INC.) | 30 | T |
| 403.210 | HOT MIX ASPHALT, 9.5 MM | 180 | T |
| 502.49 | STRUCTURAL CONCRETE CURBS & SW | 8 | CY |
| 503.12 | REINFORCING STEEL FAB & DEL | 1000 | LB |
| 503.13 | REINFORCING STEEL PLACE | 1000 | LB |
| 508.14 | HIGH PERFORMANCE WATERPROOFING MEMBRANE | 16 | SY |
| 603.05 | 6" PVC | 16 | LF |
| 603.155 | 12 IN RCP CLASS III | 48 | LF |
| 603.205 | 30 IN RCP CLASS III | 64 | LF |
| 604.16 | ALTERING CATCH BASIN TO MANHOLE | 1 | EA |
| 604.18 | ADJUST MANHOLE OR CB TO GRADE | 1 | EA |
| 608.26 | CURB RAMP DETECTABLE WARNING FIELD | 104 | SF |
| 609.31 | CURB TYPE 3 | 290 | LF |
| 610.08 | PLAIN RIPRAP | 30 | CY |
| 610.18 | STONE DITCH PROTECTION | 10 | CY |
| 611.17 | CONCRETE SLAB FOR BACKSLOPE PROTECTION | 112 | SY |
| 615.07 | LOAM | 130 | CY |
| 618.1401 | SEEDING METHOD NUMBER 2, PLAN QUANTITY | 11 | UN |
| 619.1201 | MULCH, PLAN QUANTITY | 11 | UN |
| 619.1401 | EROSION CONTROL MIX | 255 | CY |
| 620.58 | EROSION CONTROL GEOTEXTILE | 110 | SY |
| 621.54 | DECIDUOUS SHRUBS 18-24" GROUP A | 400 | EA |
| 621 80 | ESTABLISHMENT PERIOD | 1 | LS |
| 627.75 | WHITE OR YELLOW PAVEMENT & CURB MARKING | 1400 | SF |
| 641.89 | KIOSK | 1 | EA |
| 645.2911 | ROADSIDE GUIDE SIGNS TYPE II | 60 | SF |
| 646.2911 | ROADSIDE GUIDE SIGNS TYPE II POST | 25 | EA |
| 841.481 | REMOVABLE BOLLARD | 2 | EA |

GENERAL CONSTRUCTION NOTES

1. For easements, construction limits and right of way lines, refer to Right of Way Map.

2. The exact limits of clearing will be established in the field. Payment for clearing will be considered incidental to Contract items.

3. Place loam 4 inches deep on all new or reconstructed sideslopes.

4. Erosion Control Mix may be substituted in those areas normally receiving loam and seed. Placement shall be in accordance with Standard Specifications Section 619, Mulch. Payment will be made under Item No. 619.1401, Erosion Control Mix.

5. Extended-use Erosion Control Blanket, seeded gutters, riprap downspouts, and other gutters lined with Stone Ditch Protection shall be constructed after paving and shoulder work is completed, where it is apparent that runoff will cause continual erosion.

6. When the depth of the embankment is 5 feet or less, the area upon which the embankment will be placed shall be grubbed to remove all tress and stumps less than 12 inches, roots, brush grass, turf or other objectionable material. The depth of the grubbing shall be 12 inches. The outside limit shall be established as follows:

a. When the depth of the embankment below subgrade is 5 feet or less but greater than 2 feet, the outside grubbing limit shall be 12 feet from centerline.

b. When the depth of the embankment is less than 2 feet, the outside limit of grubbing shall be the intercept of the side slope with the existing ground.

7. The fill quantity estimated assumes the common excavation and grubbing material will be utilized on site with a volume factor of 0.85 for compaction. Waste materials from grubbing may be disposed of on site in the embanks in accordance with standard detail 203(01).

8. Refer to standard details section 610 for more information on riprap and stone ditch protection installation.

9. The special backfill material for construction of the retaining wall shall be considered incidental to the wall.

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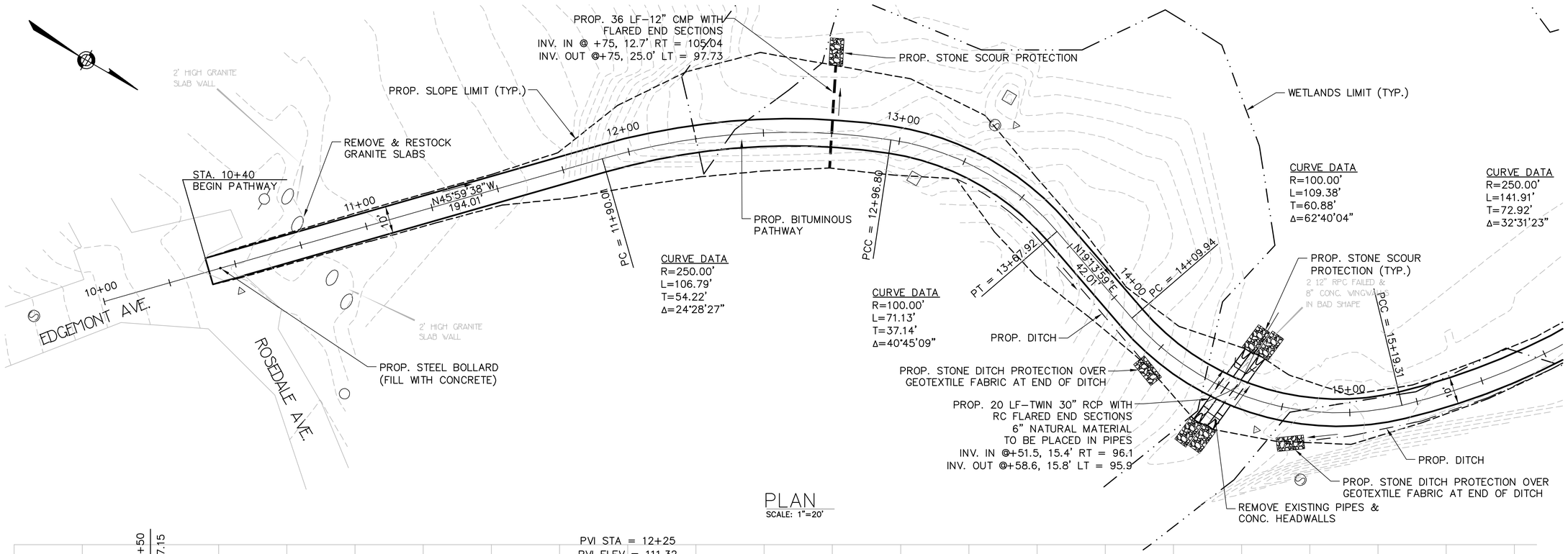
Scale: AS NOTED
Date: 5/06/2009
Job No.: 2006009
Designed by: PLH
Drawn by: DSS
Checked by: KSW
Approved by: PLH

Client: CITY OF WATERVILLE, ME
Project: WATERVILLE CONNECTING TRAIL
Drawing: ESTIMATED QUANTITIES

Sheet 3

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| Checked by | KSW |
| Approved by | PLH |

Client: CITY OF WATERVILLE, ME

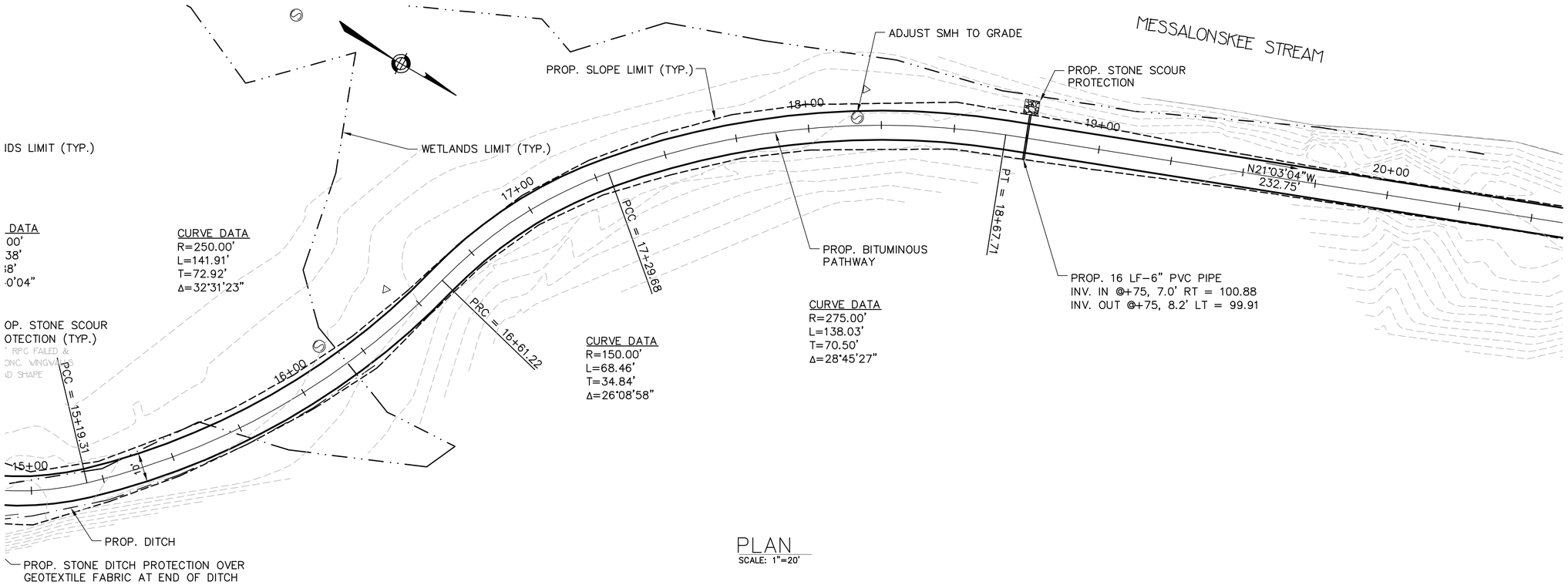
Project: WATERVILLE CONNECTING TRAIL

Drawing: CONSTRUCTION PLAN & PROFILE

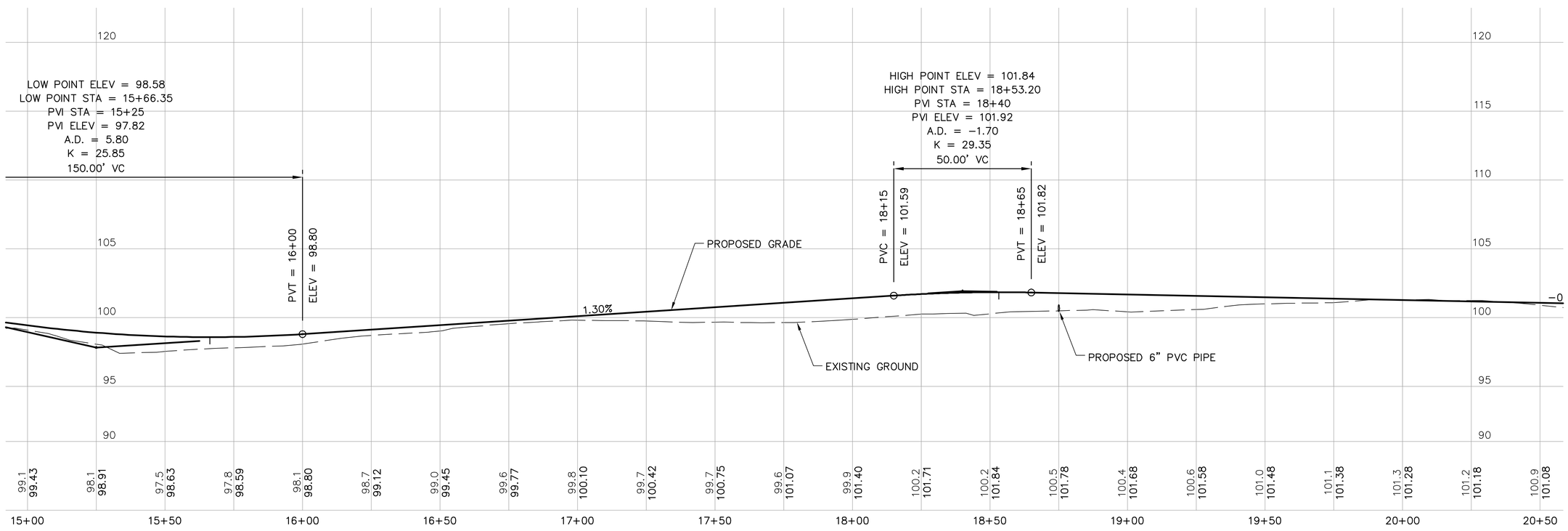
Sheet 4

4 OF 23

PLOT DATE=5/8/2009 10:11:25 AM USER=JOHN BLACKBURN FILENAME=I:_clients\Waterville ME\2009009.01-A - Waterville Connector Trail Design\00dwg\2009009 Const Plan&Profile.dwg




PLAN
SCALE: 1"=20'




PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

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| Job No. | 2009/09 |
| Designed by | JRB |
| Drawn by | JRB |
| Checked by | KSW |
| Approved by | PLH |

Client: CITY OF WATERVILLE, ME

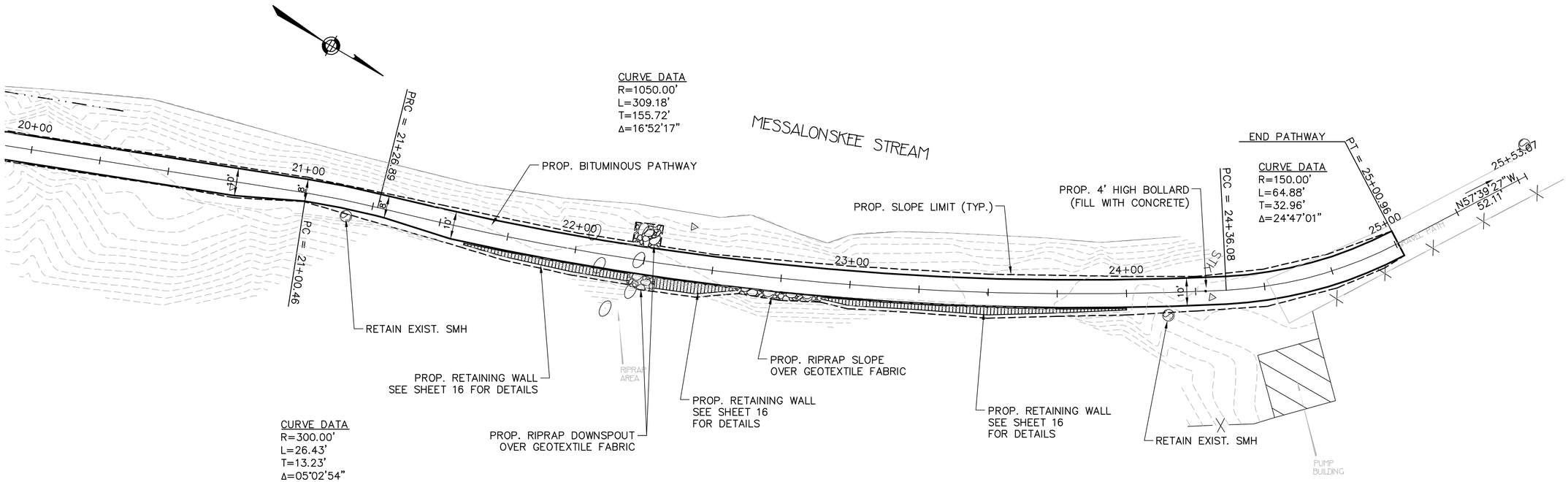
Project: WATERVILLE CONNECTING TRAIL

Drawing: CONSTRUCTION PLAN & PROFILE

Sheet 5

5 OF 23

PLOT DATE=5/8/2009 10:11:27 AM USER=JOHN BLACKBURN FILENAME=I:_clients\Waterville ME\2009\009.01-A - Waterville Connector Trail Design\00\dwg\2009009 Const Plan&Profile.dwg

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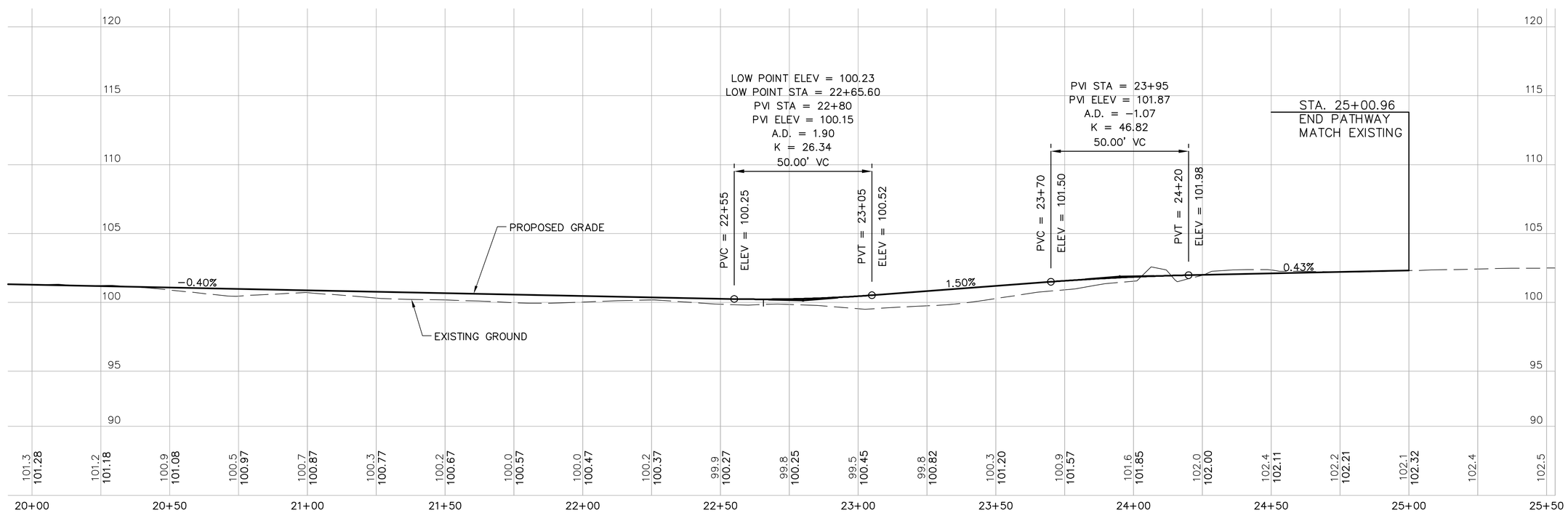


PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

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Checked by: KSW
Approved by: PLH

Client: CITY OF WATERVILLE, ME
Project: WATERVILLE CONNECTING TRAIL
Drawing: CONSTRUCTION PLAN & PROFILE
Sheet: 6

6 OF 23

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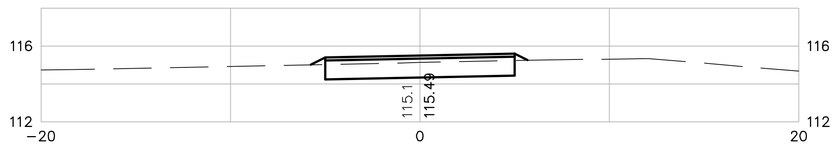


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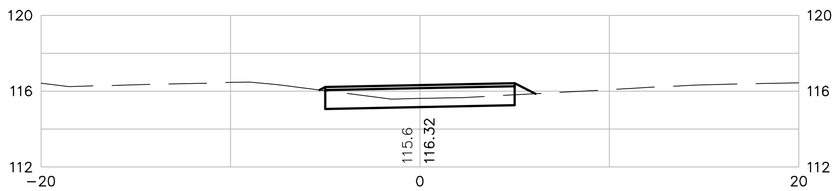


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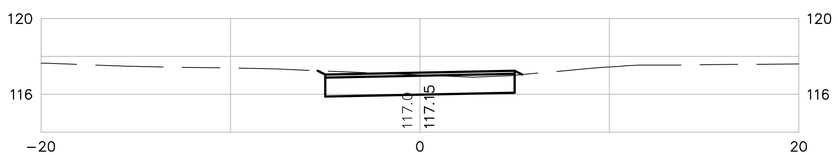


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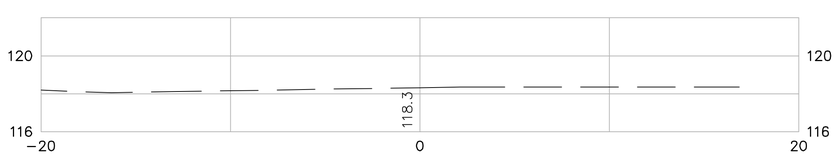


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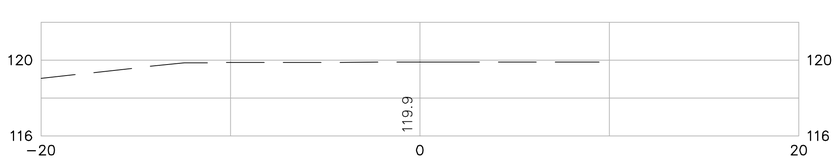


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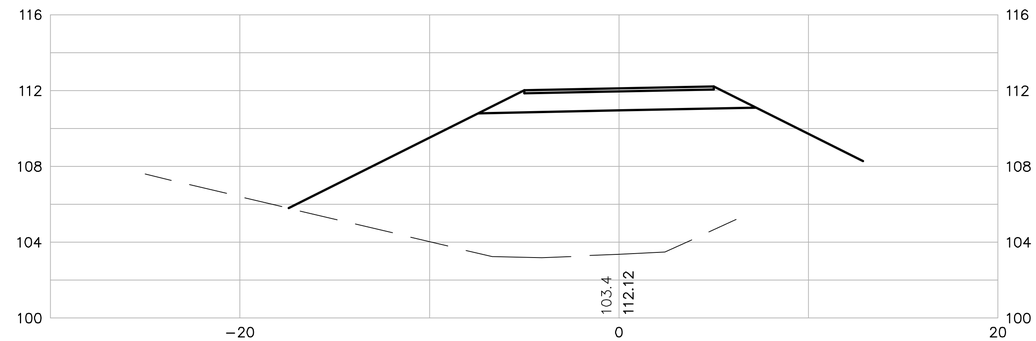


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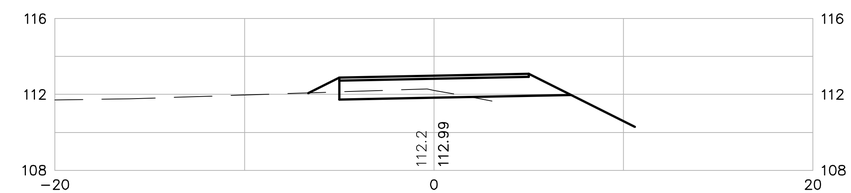


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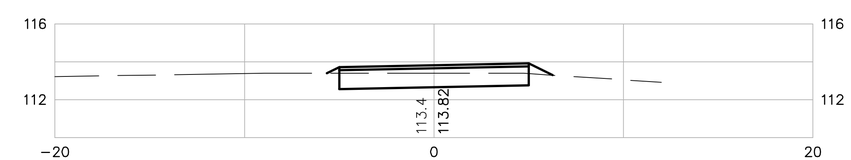


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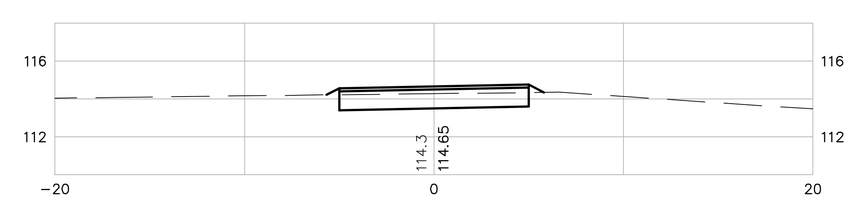


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Client: CITY OF WATERVILLE, ME

Project: WATERVILLE CONNECTING TRAIL

Drawing: CROSS SECTIONS

Sheet 7



PLOT DATE=5/8/2009 8:37:03 AM USER=JOHN BLACKBURN FILENAME=I:_clients\Waterville ME\2009009.01-A - Waterville Connector Trail Design\00\dwg\2009009 XSections.dwg

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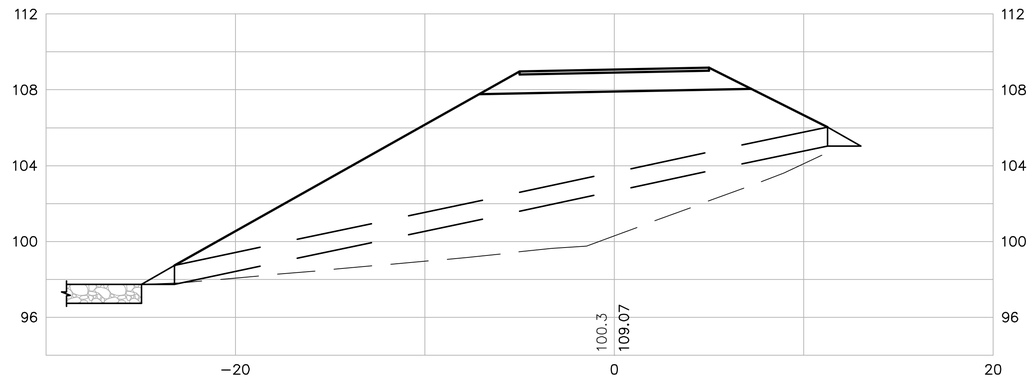


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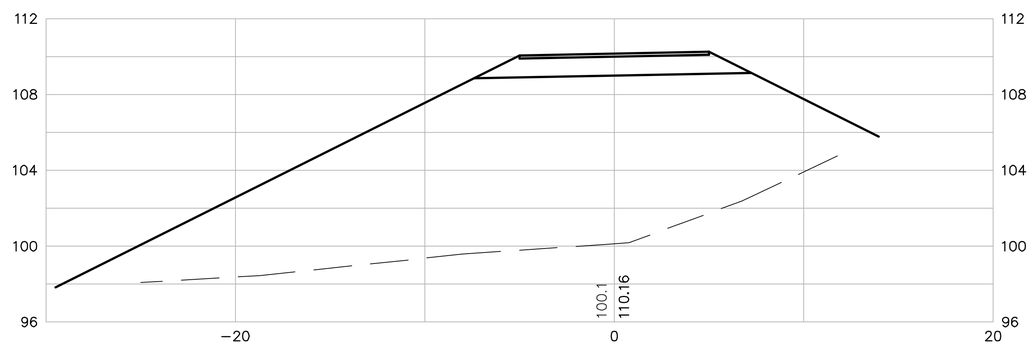


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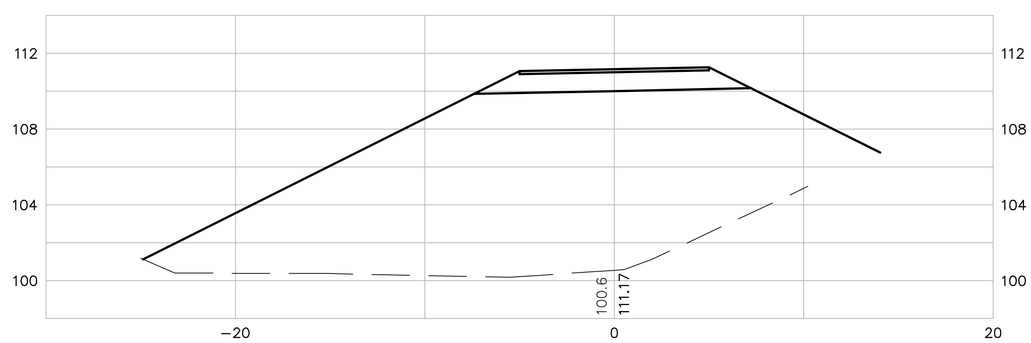


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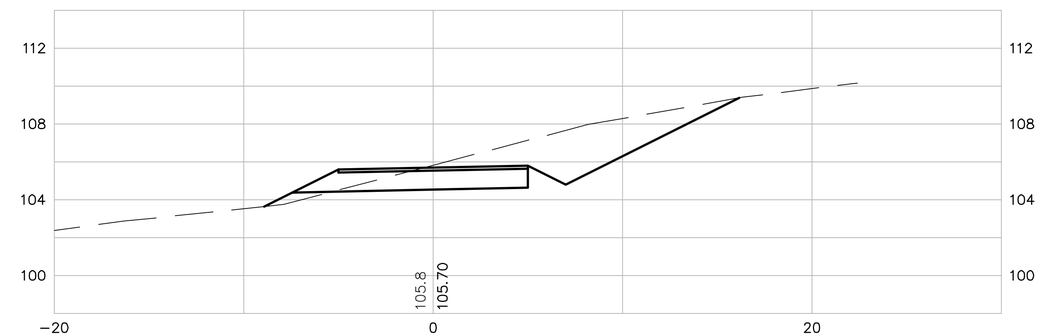


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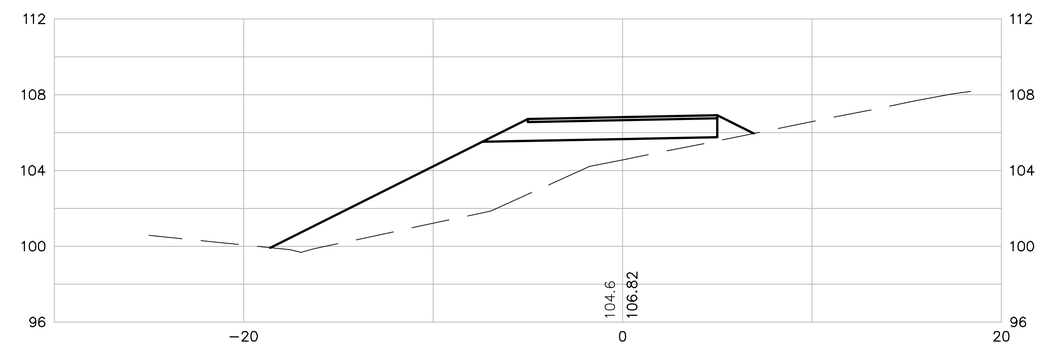


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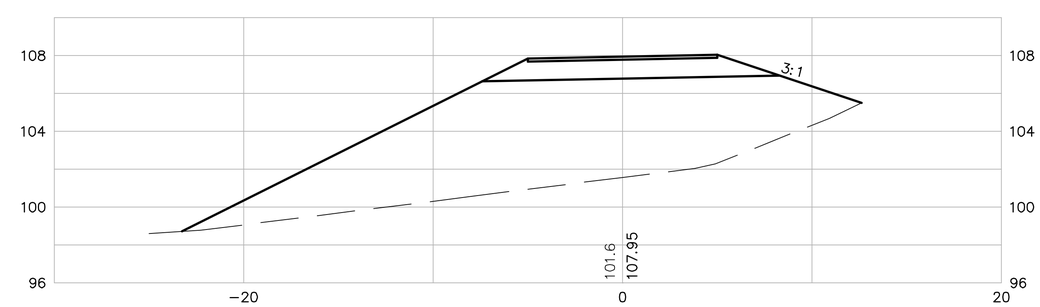


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Client: CITY OF WATERVILLE, ME

Project: WATERVILLE CONNECTING TRAIL

Drawing: CROSS SECTIONS

Sheet 8



PLOT DATE=5/8/2009 8:37:06 AM USER=JOHN BLACKBURN FILENAME=I:_clients\Waterville ME\2009009.01-A - Waterville Connector Trail Design\00\dwg\2009009 XSections.dwg

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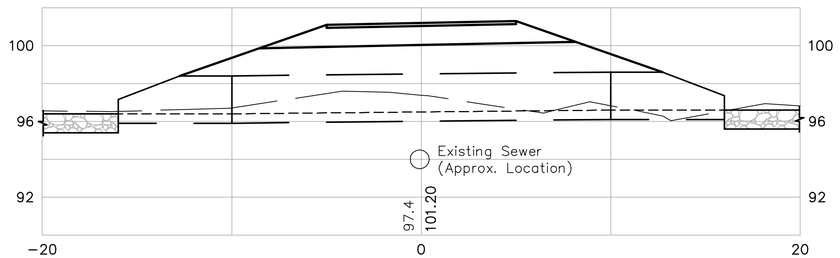


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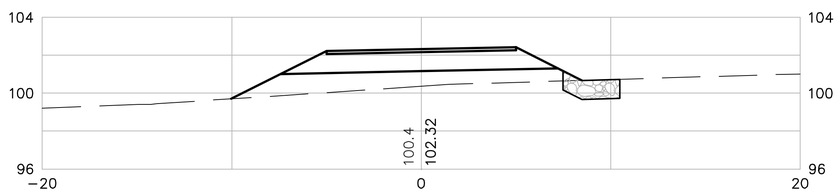


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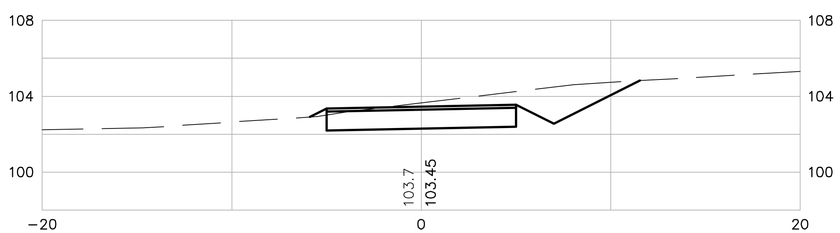


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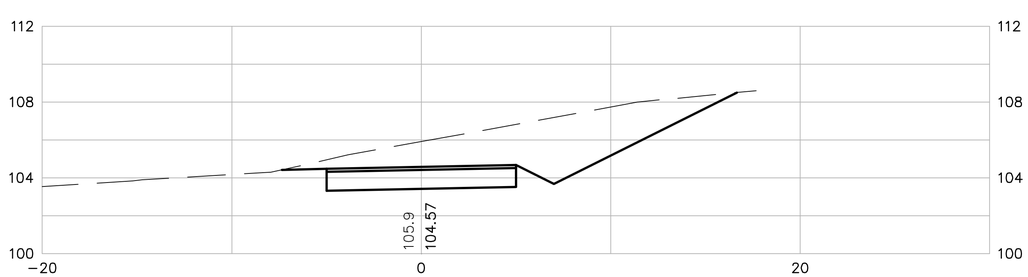


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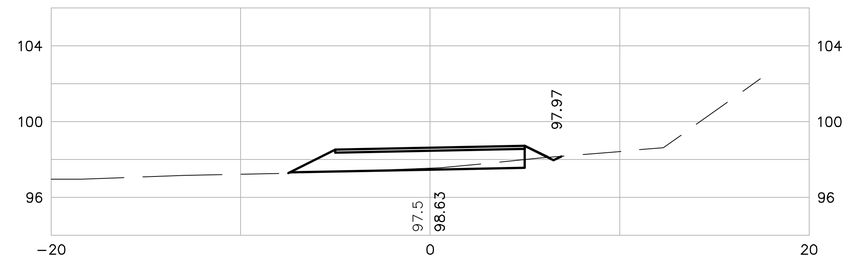


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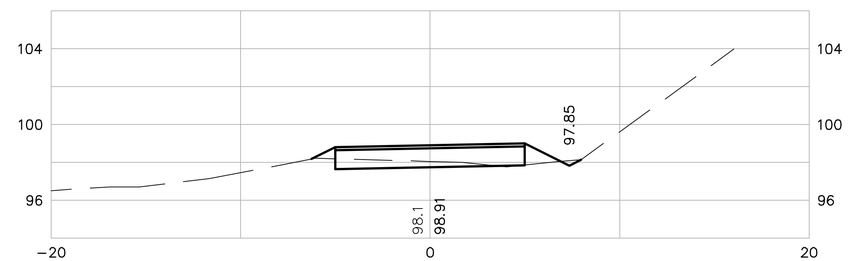


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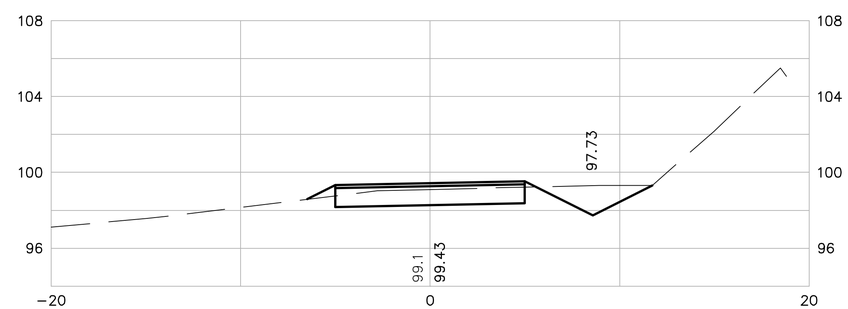


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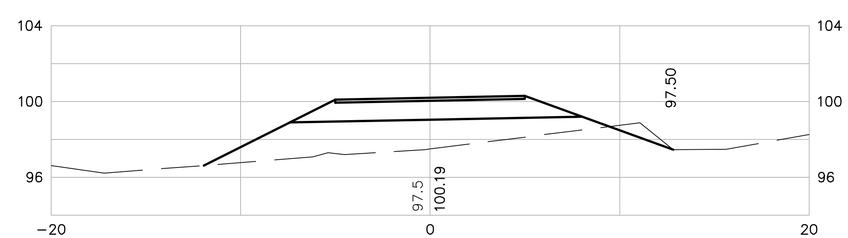


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Client: CITY OF WATERVILLE, ME

Project: WATERVILLE CONNECTING TRAIL

Drawing: CROSS SECTIONS

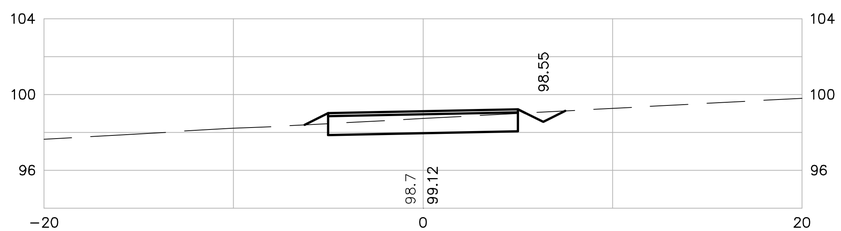
Sheet 9



PLOT DATE=5/8/2009 8:37:09 AM USER=JOHN BLACKBURN FILENAME=I:_clients\Waterville ME\2009009.01-A - Waterville Connector Trail Design\00\dwg\2009009 XSections.dwg

## 16+50

## 16+25

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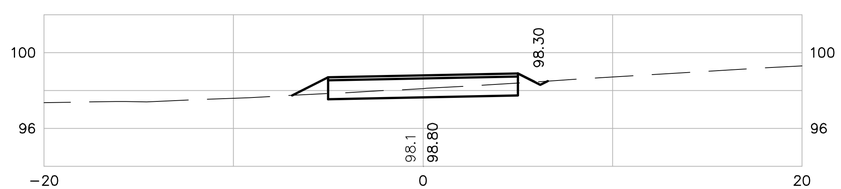


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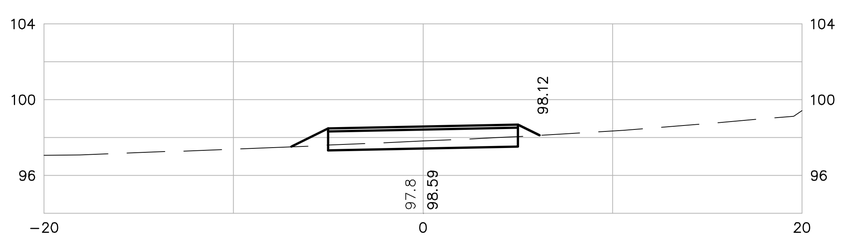


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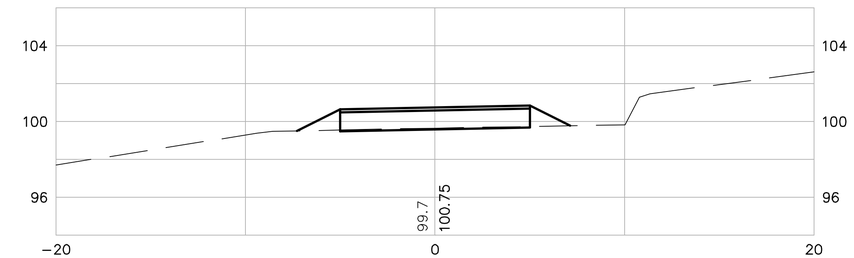


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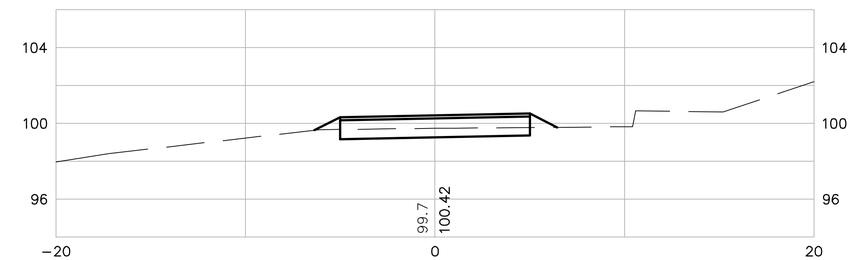


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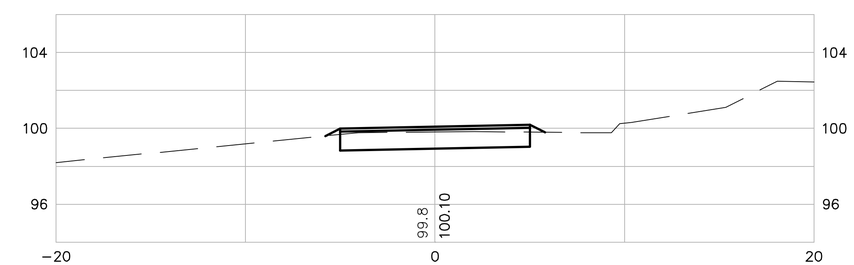


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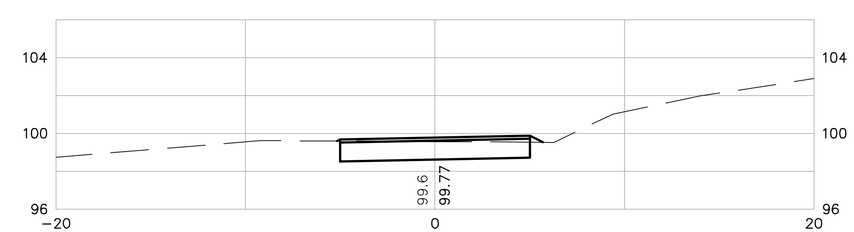


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| Date | 05/06/ 2009 |
| Job No. | 2009009 |
| Designed by | JRB |
| Drawn by | JRB |
| Checked by | KSW |
| Approved by | PLH |

Client: CITY OF WATERVILLE, ME

Project: WATERVILLE CONNECTING TRAIL

Drawing: CROSS SECTIONS

Sheet 10



PLOT DATE=5/8/2009 8:37:11 AM USER=JOHN BLACKBURN FILENAME=I:_clients\Waterville ME\2009009.01-A - Waterville Connector Trail Design\00\dwg\2009009 XSections.dwg

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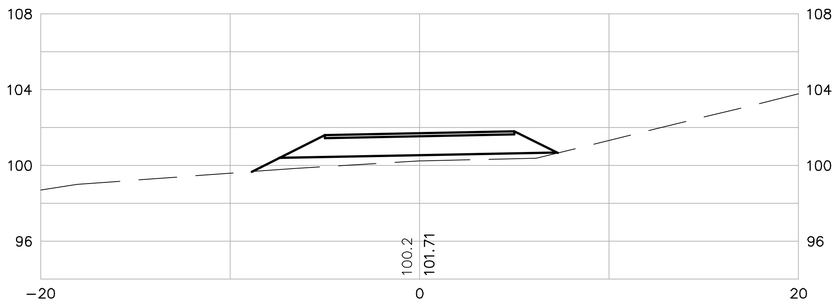


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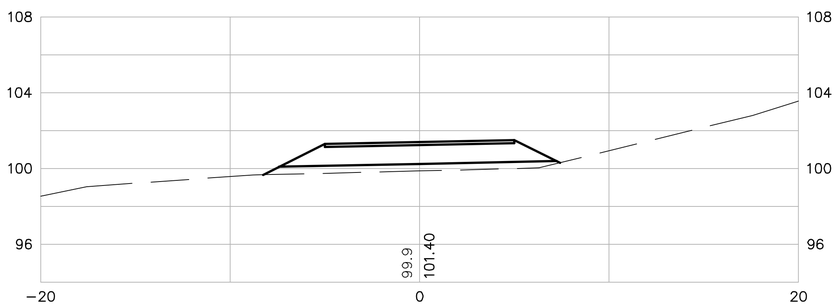


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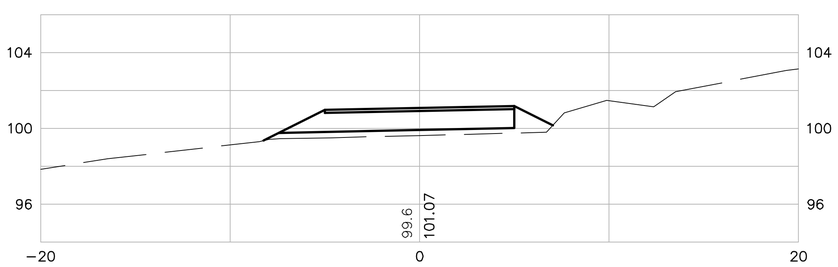


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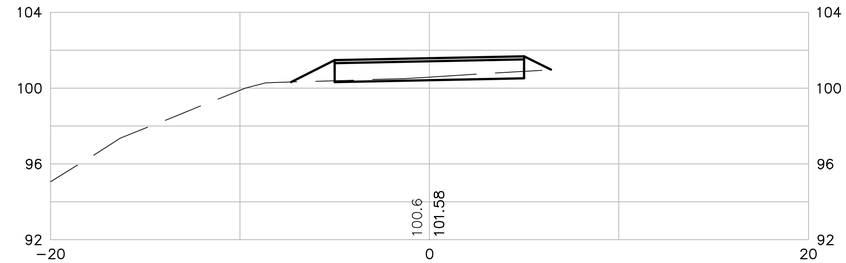


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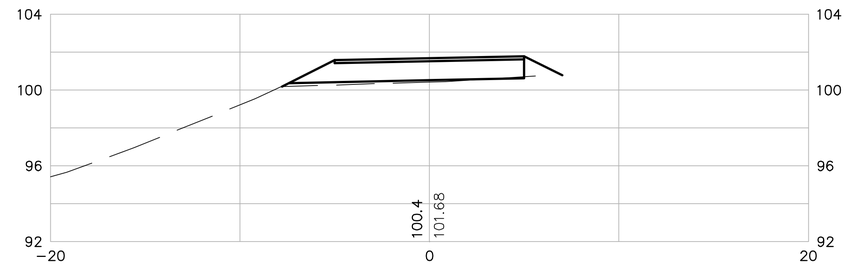


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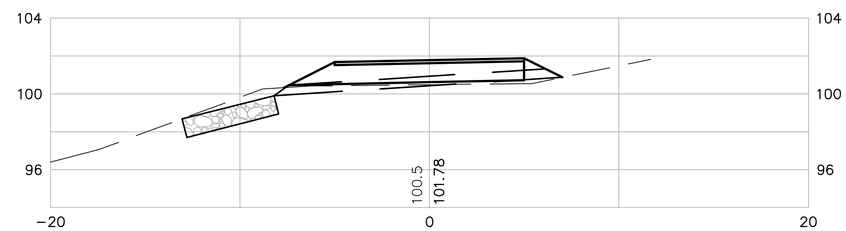


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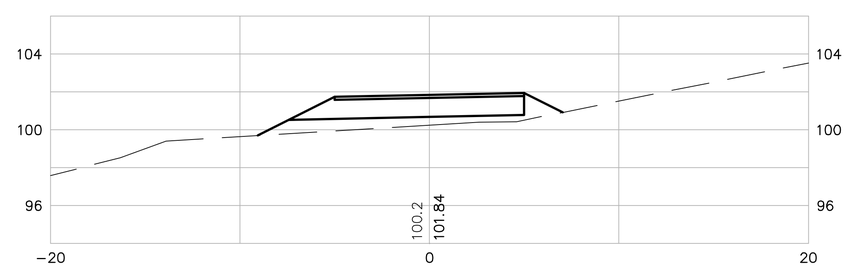


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Client: CITY OF WATERVILLE, ME

Project: WATERVILLE CONNECTING TRAIL

Drawing: CROSS SECTIONS

Sheet 11



PLOT DATE=5/8/2009 8:37:14 AM USER=JOHN BLACKBURN FILENAME=I:_clients\Waterville ME\2009009.01-A - Waterville Connector Trail Design\00dwg\2009009 XSections.dwg

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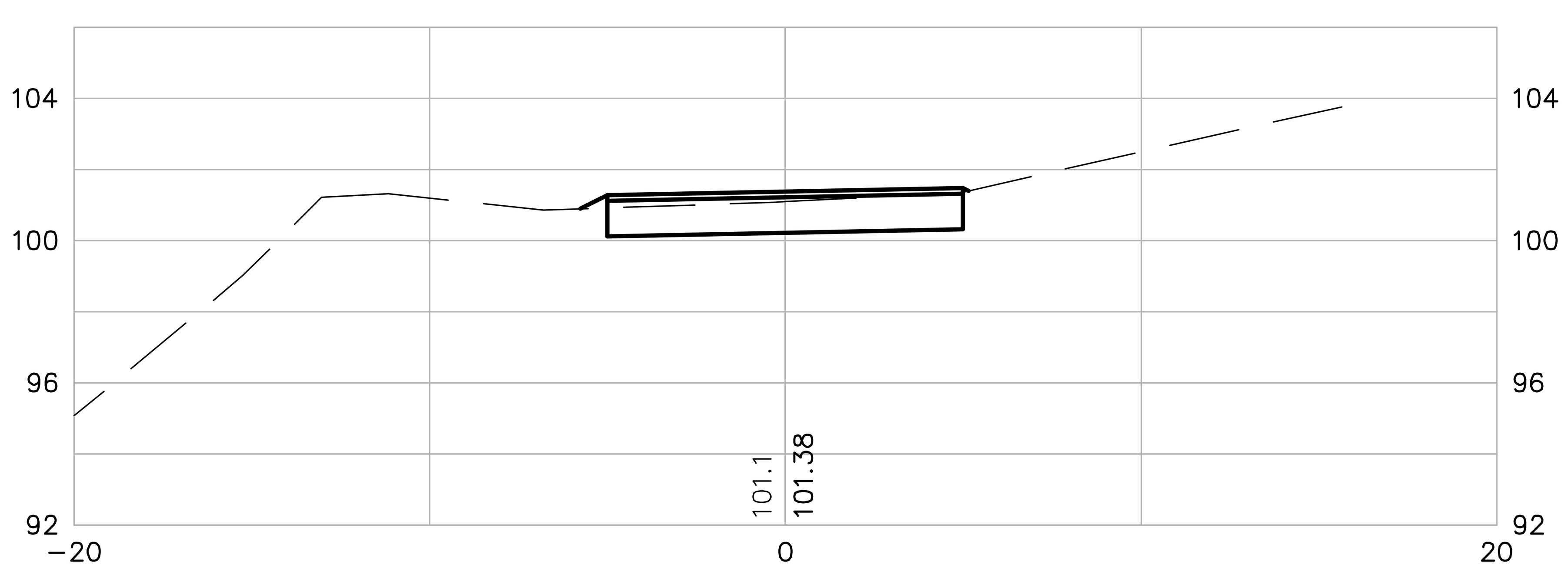


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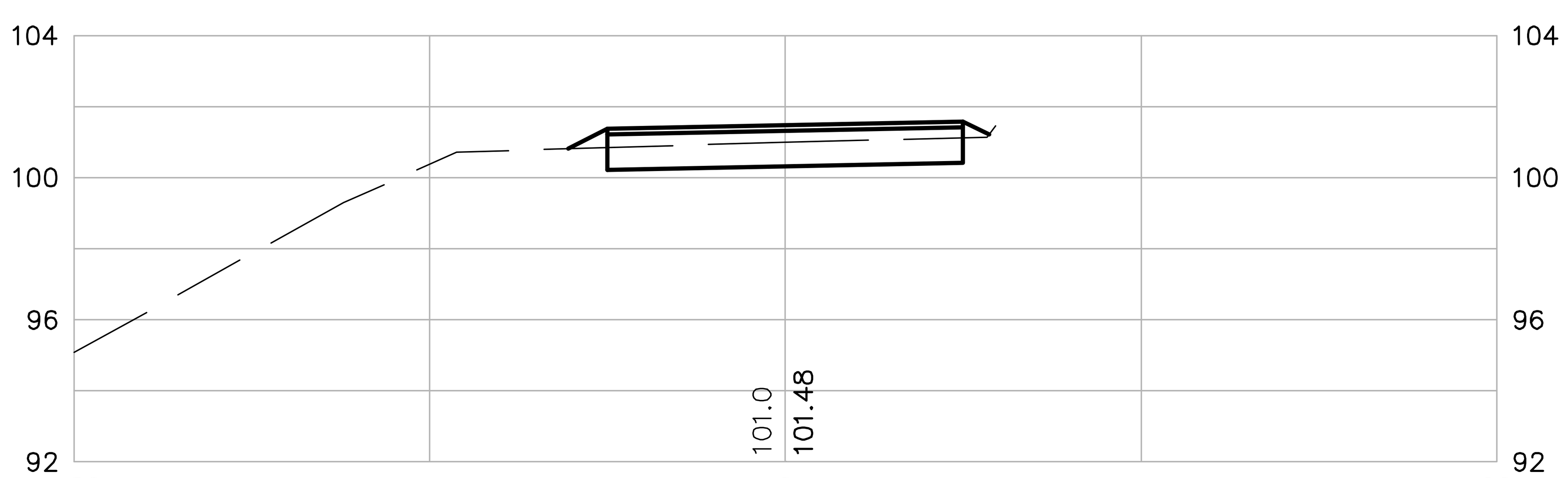


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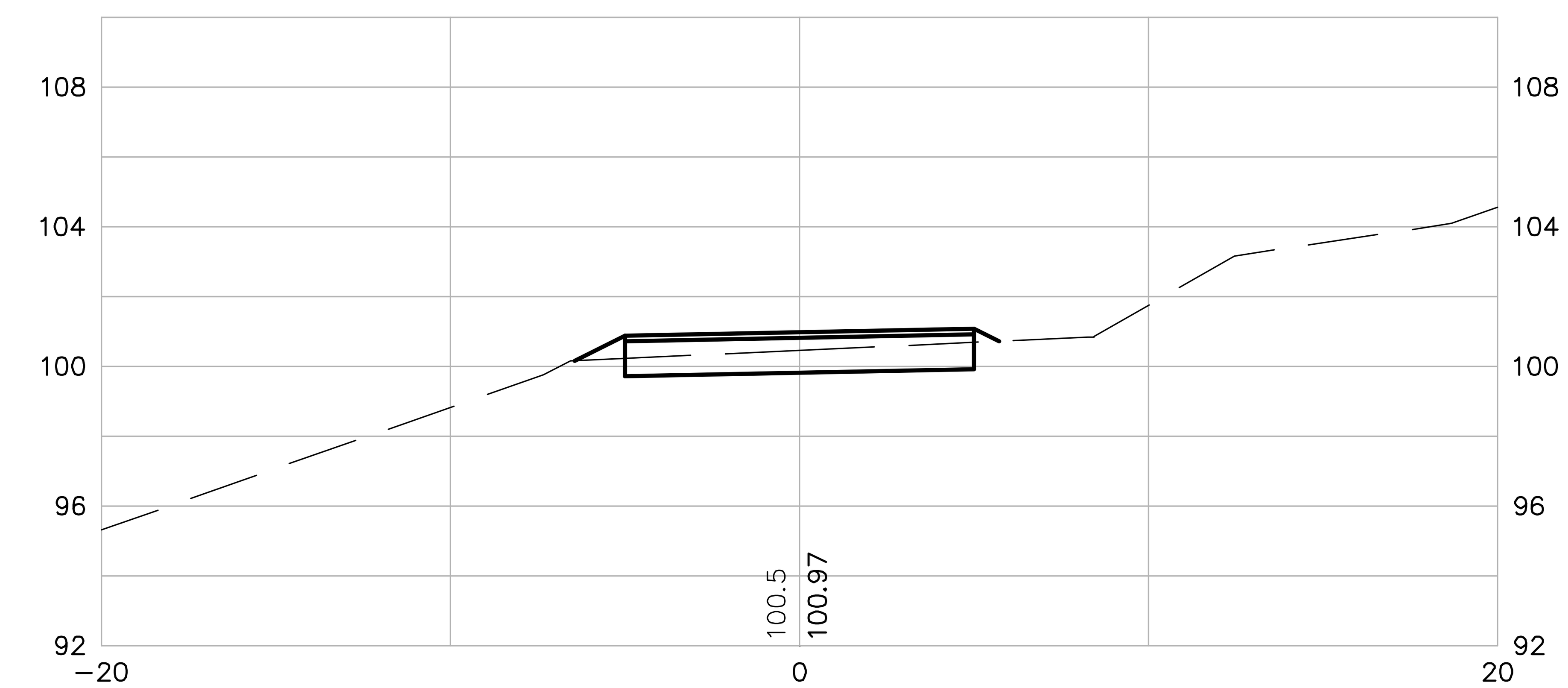


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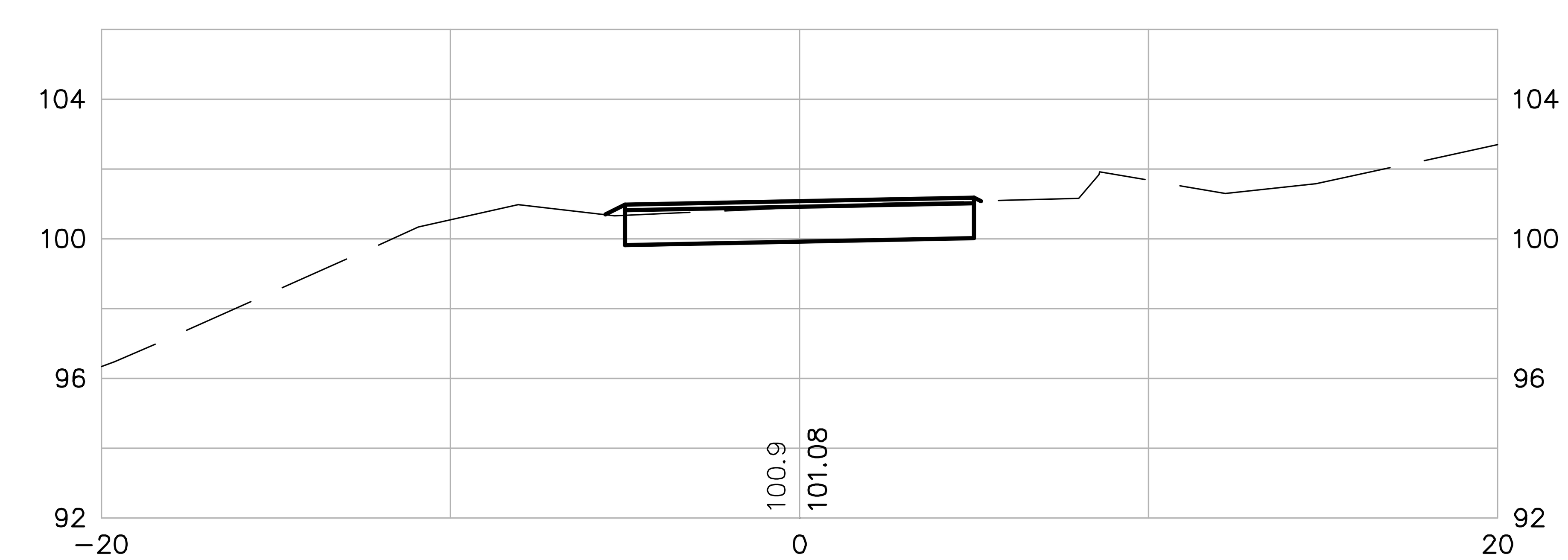


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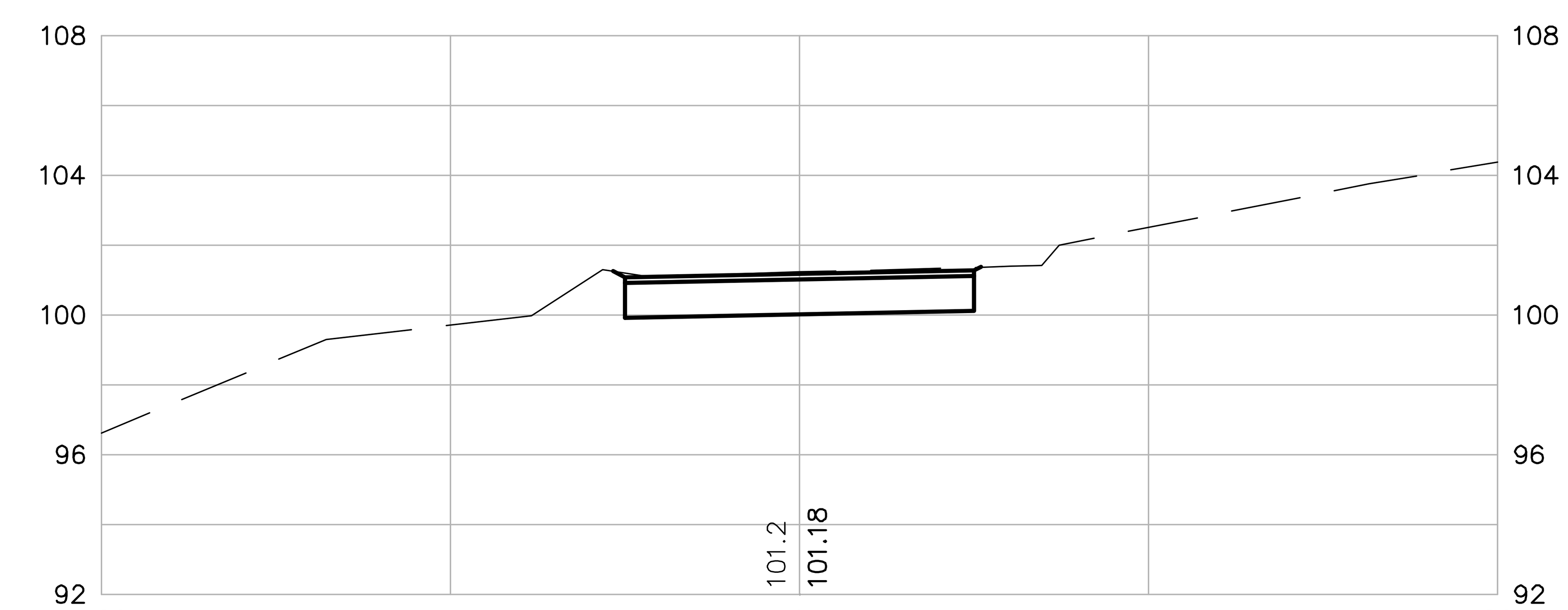


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| Drawn by | JRB |
| Checked by | KSW |
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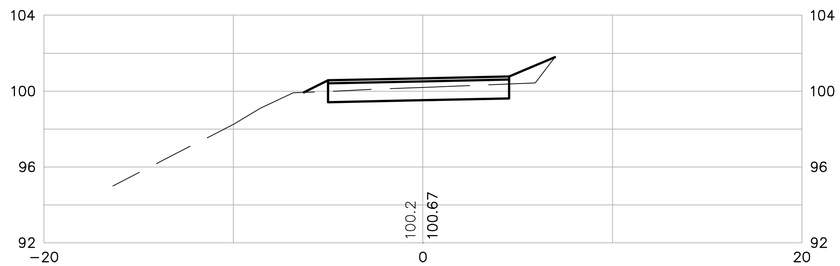
Client
CITY OF WATERVILLE, ME

Project
WATERVILLE CONNECTING TRAIL

Drawing
CROSS SECTIONS

Sheet
12

21+50

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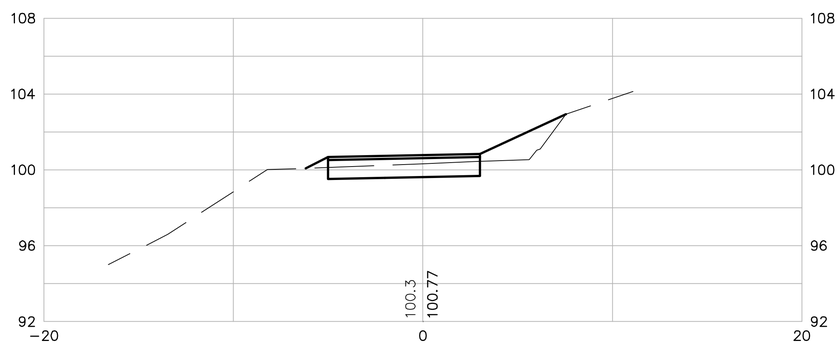


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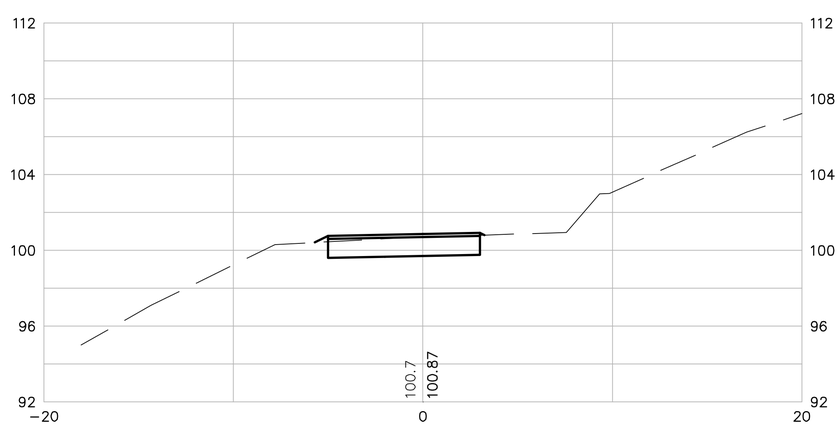


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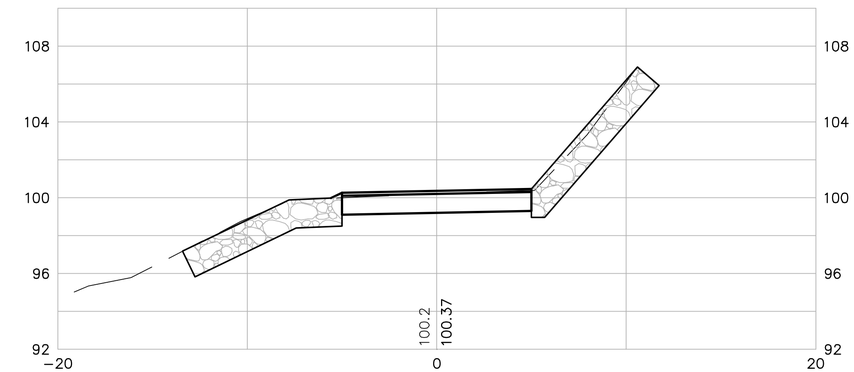


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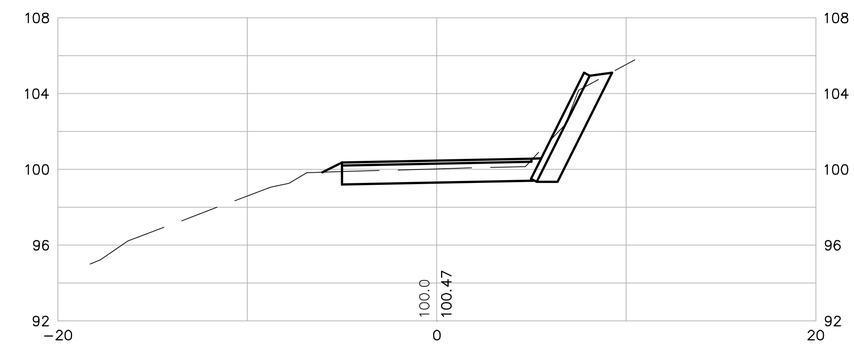


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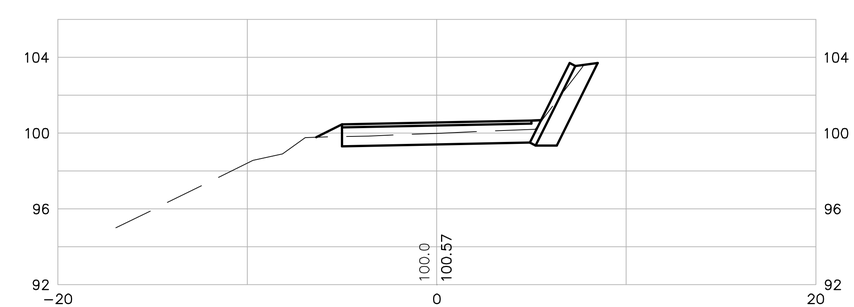


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| Checked by | KSW |
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Client: CITY OF WATERVILLE, ME

Project: WATERVILLE CONNECTING TRAIL

Drawing: CROSS SECTIONS

Sheet 13



PLOT DATE=5/9/2009 8:37:20 AM USER=JOHN BLACKBURN FILENAME=I:_clients\Waterville ME\2009009.01-A - Waterville Connector Trail Design\006dwg\2009009 XSections.dwg

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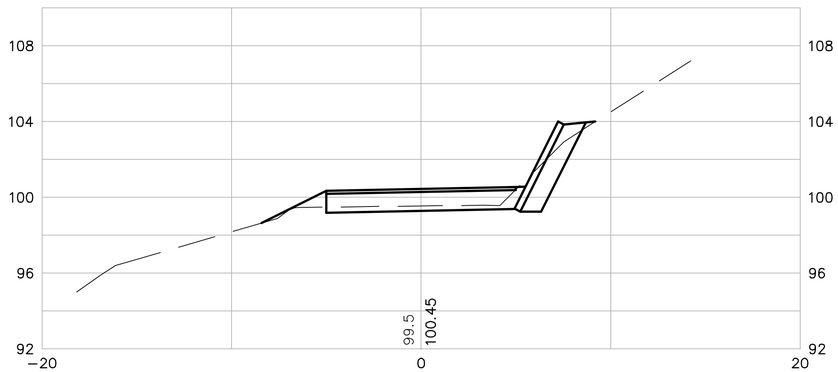


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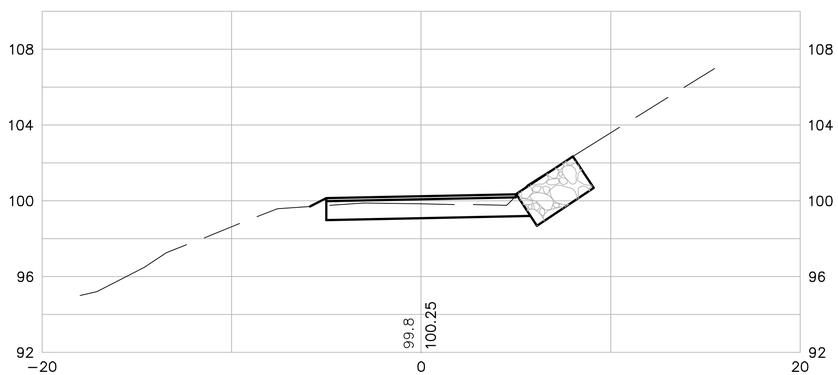


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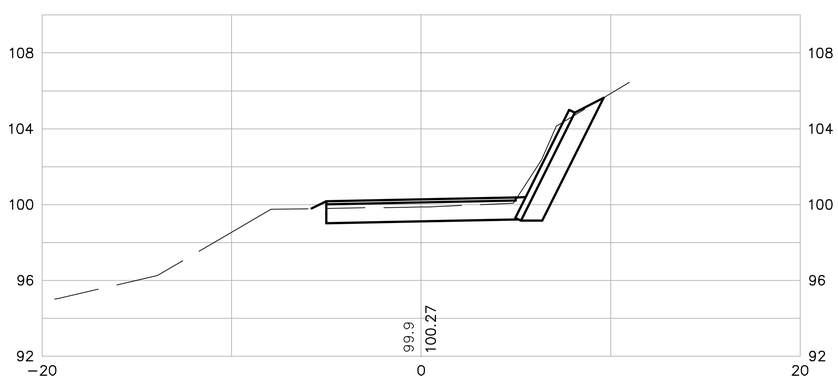


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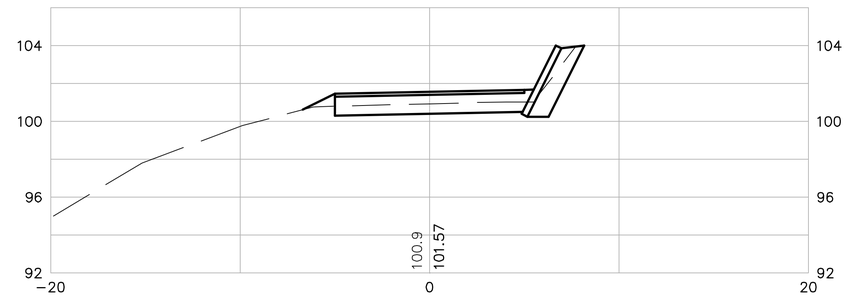


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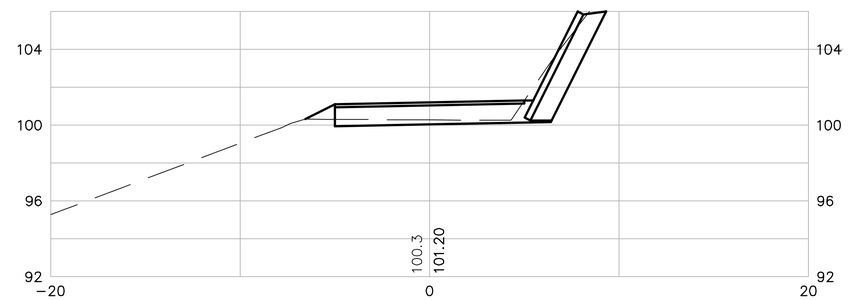


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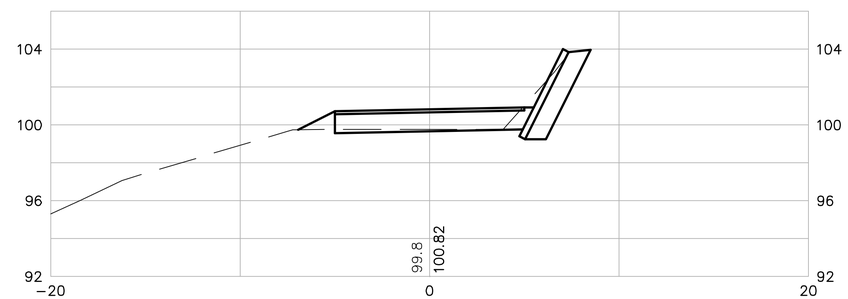


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| Job No. | 2009009 |
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| Drawn by | JRB |
| Checked by | KSW |
| Approved by | PLH |

Client: CITY OF WATERVILLE, ME

Project: WATERVILLE CONNECTING TRAIL

Drawing: CROSS SECTIONS

Sheet 14



PLOT DATE=5/8/2009 12:48:40 PM USER=JOHN BLACKBURN FILENAME=I:_clients\Waterville ME\2009009.01-A - Waterville Connector Trail Design\00\dwg\2009009 XSections.dwg

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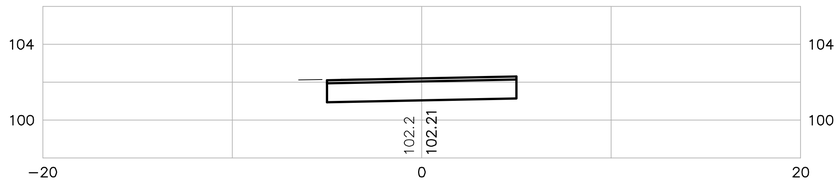


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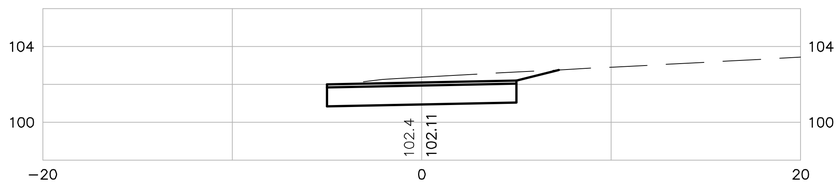


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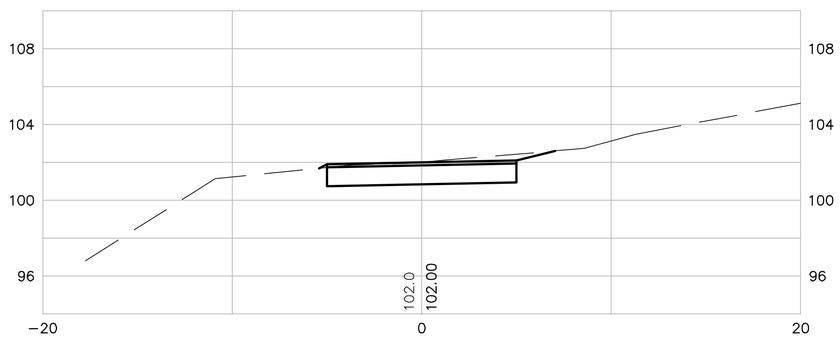


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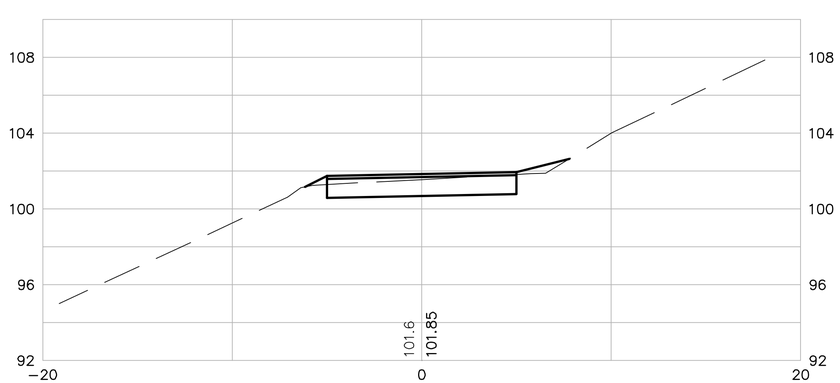


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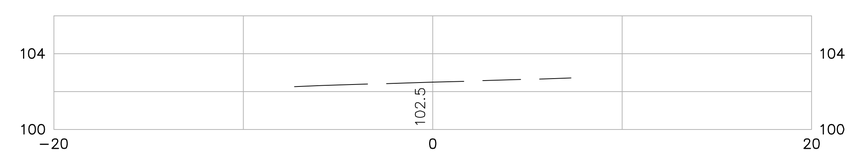


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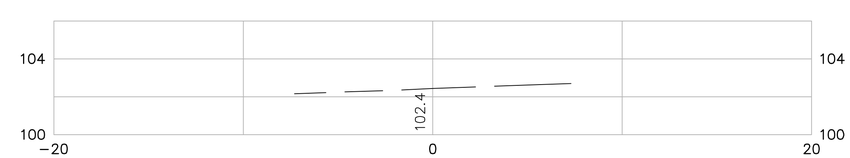


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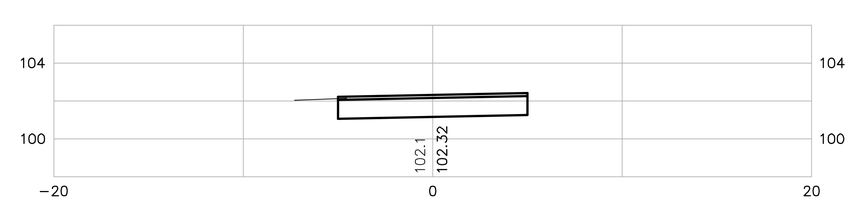


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Job No. 2009009
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Drawn by JRB
Checked by KSW
Approved by PLH

Client CITY OF WATERVILLE, ME

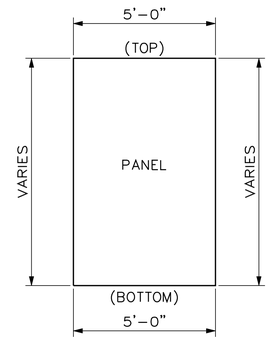
Project WATERVILLE CONNECTING TRAIL

Drawing CROSS SECTIONS

Sheet 15

15 OF 23

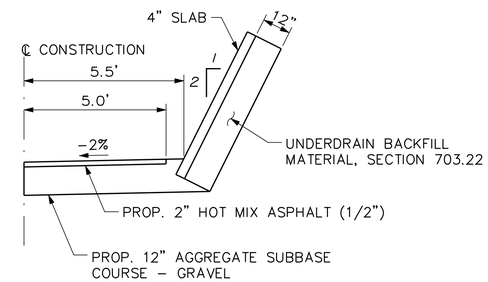
PLOT DATE=5/8/2009 8:37:26 AM USER=JOHN BLACKBURN FILENAME=I:_clients\Waterville ME\2009009.01-A - Waterville Connector Trail Design\00\dwg\2009009 XSections.dwg



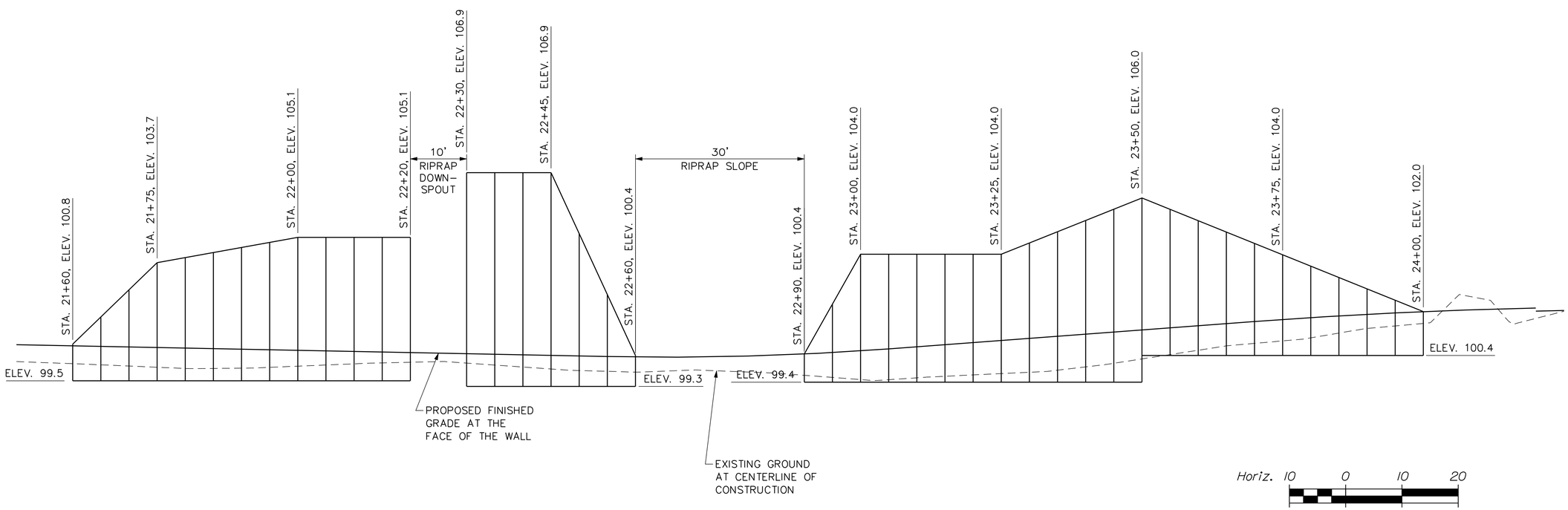

PANEL DETAIL

NOTES:

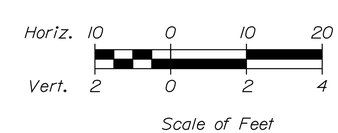
1. ALL SLABS TO BE PRECAST TO THE DIMENSIONS SHOWN AND REINFORCED WITH WELDED STEEL WIRE FABRIC IN ACCORDANCE WITH THE STANDARD DETAILS FOR CONCRETE SLAB FOR BACKSLOPE PROTECTION (ITEM 611.17).




TYPICAL WALL SECTION




RETAINING WALL ELEVATION

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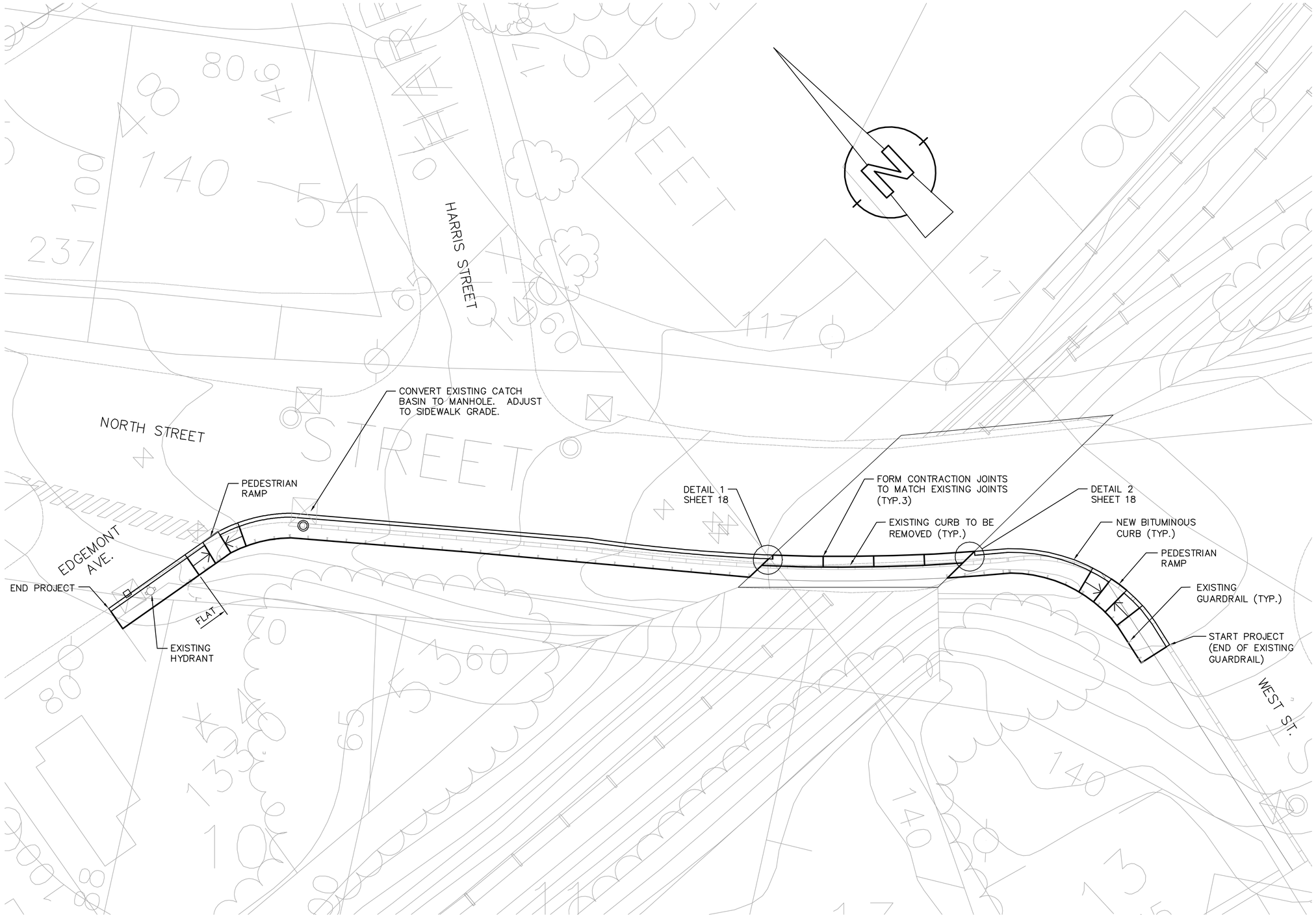
| Date | 5/06/2009 |
| Job No. | 2008009 |
| Designed by | KSW |
| Drawn by | DSS |
| Checked by | CAW |
| Approved by | PLH |

Client: CITY OF WATERVILLE, ME

Project: WATERVILLE CONNECTING TRAIL

Drawing: WALL DETAILS

Sheet 16




# PLAN

SCALE:1/16"=1'-0"

1'0 8' 16' 24'

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| Job No. | 2009009 |
| Designed by | CAW |
| Drawn by | DSS |
| Checked by | KSW |
| Approved by | PLH |

Client: CITY OF WATERVILLE, ME

Project: WATERVILLE CONNECTING TRAIL

Drawing: PLAN SIDEWALK

Sheet 17

PLOT DATE=5/6/2009 2:27:01 PM USER=DARYL SHAW FILENAME=I:_clients\Waterville ME\2009009.01-A - Waterville Connector Trail Design\00\dwg\209009 Sidewalk Sheet 1.dwg

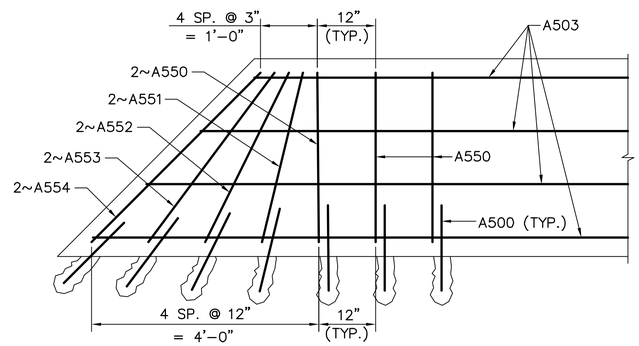
| STRAIGHT BARS | | | |
|---|---|---|---|
| MARK | QUANTITY | LENGTH | LOCATION |
| A500 | 66 | 1'–6" | HORIZ. DOWELS |
| A501 | 8 | 14'–11" | TYP. LONGITUDINAL BARS |
| A502 | 4 | 28'–0" | LONG. BARS AT SOUTH END (FIELD CUT) |
| A503 | 4 | 12'–0" | LONG. BARS AT NORTH END (FIELD CUT) |

| BENT BARS | | | | | | |
|---|---|---|---|---|---|---|
| MARK | QUANTITY | TYPE | LENGTH | A | B | LOCATION |
| A550 | 112 | L | 4'–2¾" | 3'–0" | 1'–2¾" | TRANSVERSE BARS |
| A551 | 4 | L | 4'–4¼" | 3'–1½" | 1'–2¾" | TRANSVERSE BARS AT ENDS |
| A552 | 4 | L | 4'–7¼" | 3'–4½" | 1'–2¾" | TRANSVERSE BARS AT ENDS |
| A553 | 4 | L | 5'–0" | 3'–9¼" | 1'–2¾" | TRANSVERSE BARS AT ENDS |
| A554 | 4 | L | 5'–5¼" | 4'–2½" | 1'–2¾" | TRANSVERSE BARS AT ENDS |

NOTES:

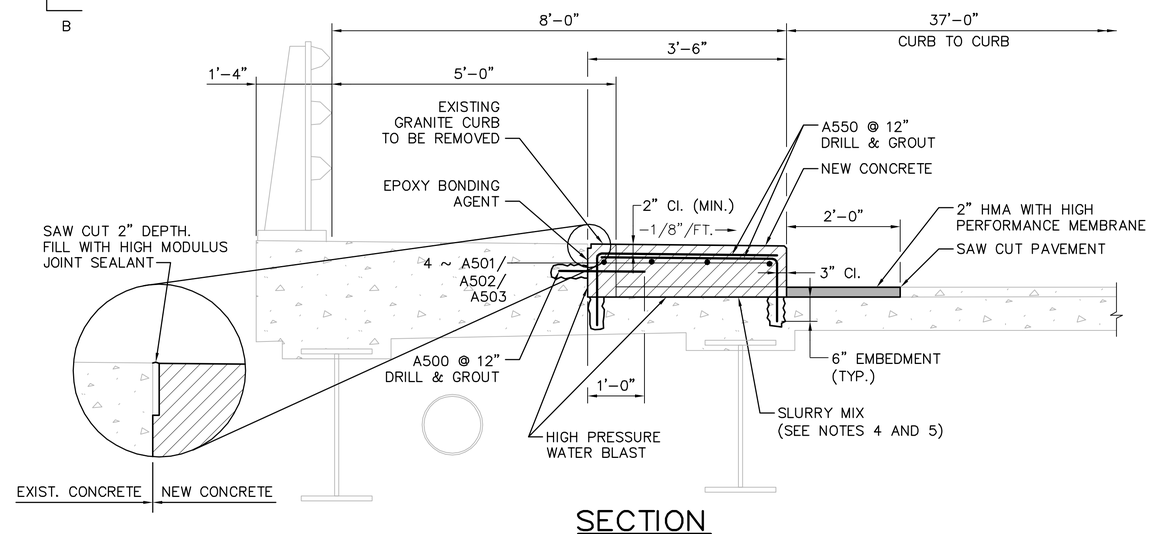
1. UNCONFINED PULLOUT FORCE OF DRILLED & GROUTED #5 BARS = 17 KIPS.
2. NEW CONCRETE SHALL BE CLASS LP.
3. REINFORCING STEEL SHALL CONFORM WITH ASTM A615 GRADE 60.
4. EXISTING TRANSVERSE BARS IN DECK ARE SPACED @ 6" ON CENTER TOP AND BOTTOM. CARE SHALL BE TAKEN TO AVOID DRILLING INTO BARS.
5. SLURRY MIX SHALL CONSIST OF NEAT CEMENT GROUT WITH THE FOLLOWING PROPORTIONS:
   - 1 BAG (94 POUNDS) PORTLAND CEMENT, TYPE I
   - 5 TO 6 GALLONS OF CLEAN WATER
   - UP TO 5 POUNDS OF POWDERED BENTONITE

   OR OTHER SUITABLE BONDING AGENT.
6. CONCRETE SIDEWALK SHALL BE CAST PRIOR TO SLURRY MIX HARDENING.
7. REINFORCING STEEL SHALL BE DISCONTINUOUS AT CONTRACTION JOINTS.
8. REFER TO STANDARD DETAIL 502(03) FOR CURB BLOCKOUT AND PLACEMENT OF MEMBRANE.



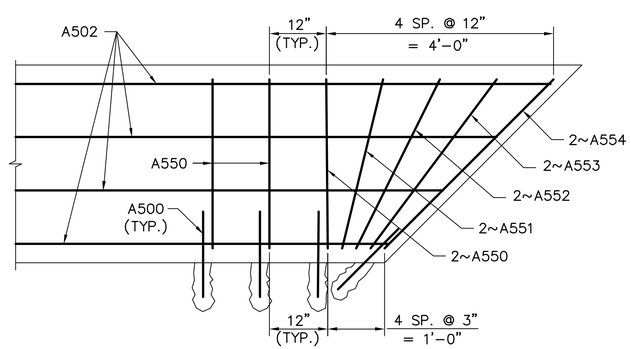

## DETAIL 1

**SCALE: 3/4" = 1'–0"**



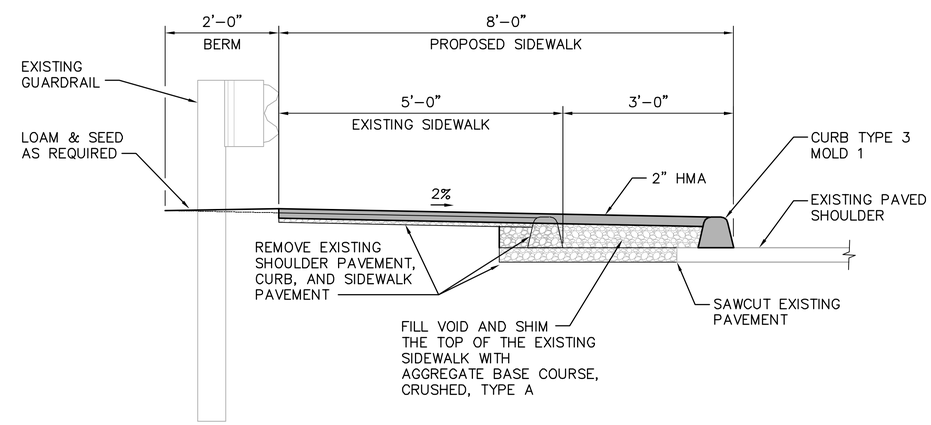

## SECTION NORTH STREET BRIDGE

**SCALE: 3/4" = 1'–0"**




## DETAIL 2

**SCALE: 3/4" = 1'–0"**




## TYPICAL SIDEWALK SECTION

**SCALE: 3/4" = 1'–0"**

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| No. | Description | Date |
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| | |
|---|---|
| Scale | AS NOTED |
| Date | 05/06/ 2009 |
| Job No. | 2005009 |
| Designed by | CAW |
| Drawn by | DSS |
| Checked by | KSW |
| Approved by | PLH |

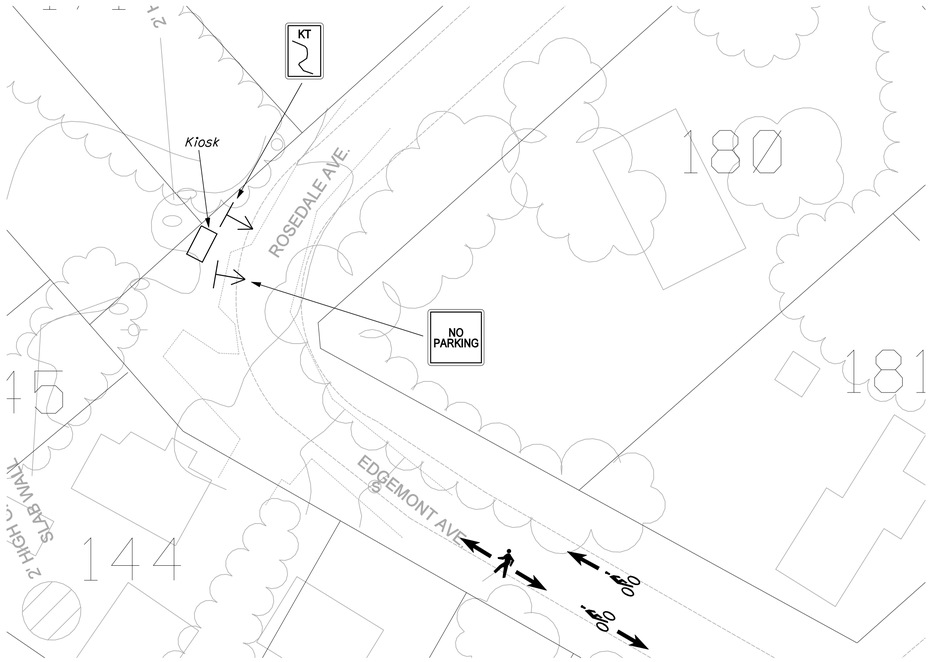
Client: CITY OF WATERVILLE, ME

Project: WATERVILLE CONNECTING TRAIL

Drawing: SIDEWALK DETAILS

Sheet 18

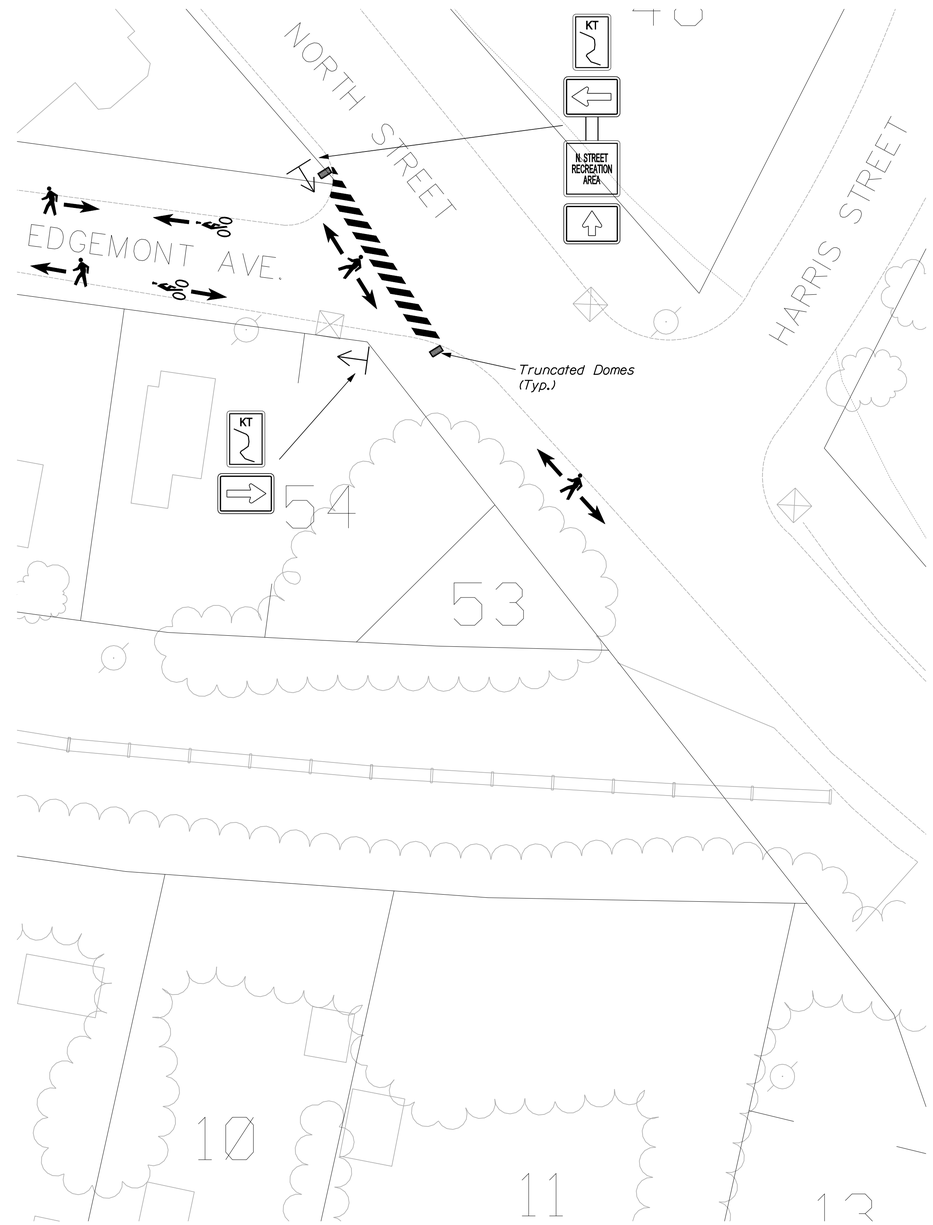
PLOT DATE=5/8/2009 11:08:05 AM USER=JOHN BLACKBURN FILENAME=I:_clients\Waterville ME\2005009.01-A - Waterville Connector Trail Design\00cdwg\2059009 Sidewalk Sheet 2.dwg




PLAN

25 0 25 50

SCALE




PLAN

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SCALE

## SIGN SUMMARY

| I.D. NO. | SIGN TEXT | SIGN AREA IN SQ. FT. | NO. OF SIGNS REQ'D. | POSTS REQUIRED 8' | POSTS REQUIRED 10' | COLOR BACK GROUND | COLOR LEGEND BORDER |
|---|---|---|---|---|---|---|---|
| M7-2 | ⇧ 12"x6" | 0.50 | 7 | | | GREEN | WHITE |
| M7-1 | ⇦ 12"x6" | 0.50 | 17 | | | GREEN | WHITE |
| | KT 12"x18" | 1.50 | 24 | 21 | | GREEN | WHITE |
| | N. STREET RECREATION AREA 18"x18" | 2.25 | 1 | | 1 | WHITE | BLACK |
| RB-3 | NO PARKING 18"x18" | 2.25 | 1 | | 1 | WHITE | RED |
| | CAUTION WALK BICYCLES ON BRIDGE SIDEWALK 18"x18" | 2.25 | 1 | | 1 | WHITE | BLACK |
| | BICYCLES ONLY 18"x12" | 1.50 | 1 | | | WHITE | BLACK |
| | BICYCLES 18"x12" | 1.50 | 1 | | 1 | WHITE | BLACK |
| | PEDESTRIANS 18"x12" | 1.50 | 1 | | | WHITE | BLACK |

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| | REVISIONS | |

Scale AS NOTED
Date 5/06/2009
Job No. 2008009
Designed by PLH
Drawn by DSS
Checked by KSW
Approved by PLH

Client CITY OF WATERVILLE, ME

Project WATERVILLE CONNECTING TRAIL

Drawing ROADWAY SIGNAGE PLANS

Sheet 19

PLAN

25 0 25 50

SCALE

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|---|---|
| Scale | AS NOTED |
| Date | 5/06/ 2009 |
| Job No. | 2008009 |
| Designed by | PLH |
| Drawn by | DSS |
| Checked by | KSW |
| Approved by | PLH |

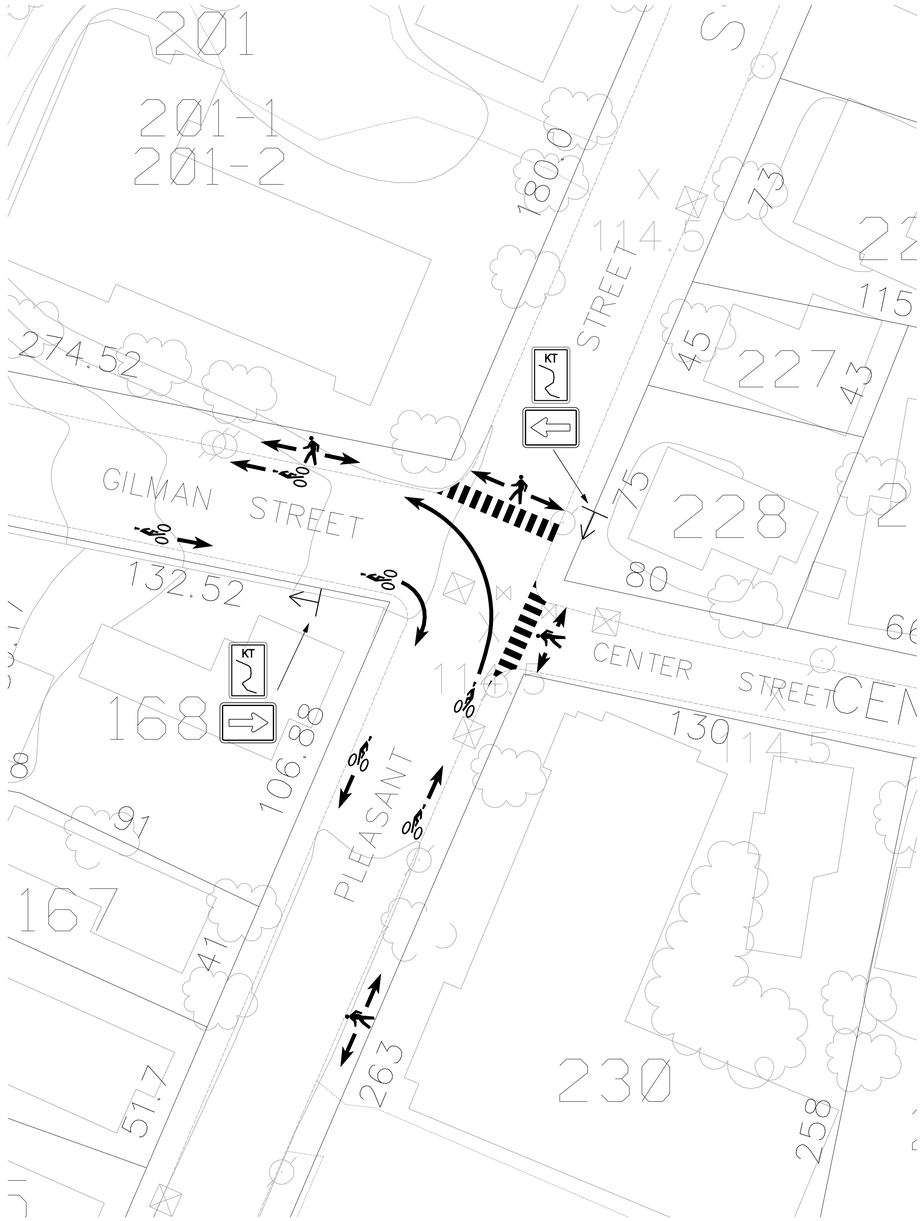
| No. | Description | Date |
|---|---|---|
| | REVISIONS | |

Client: CITY OF WATERVILLE, ME

Project: WATERVILLE CONNECTING TRAIL

Drawing: ROADWAY SIGNAGE PLANS

Sheet 20




PLAN

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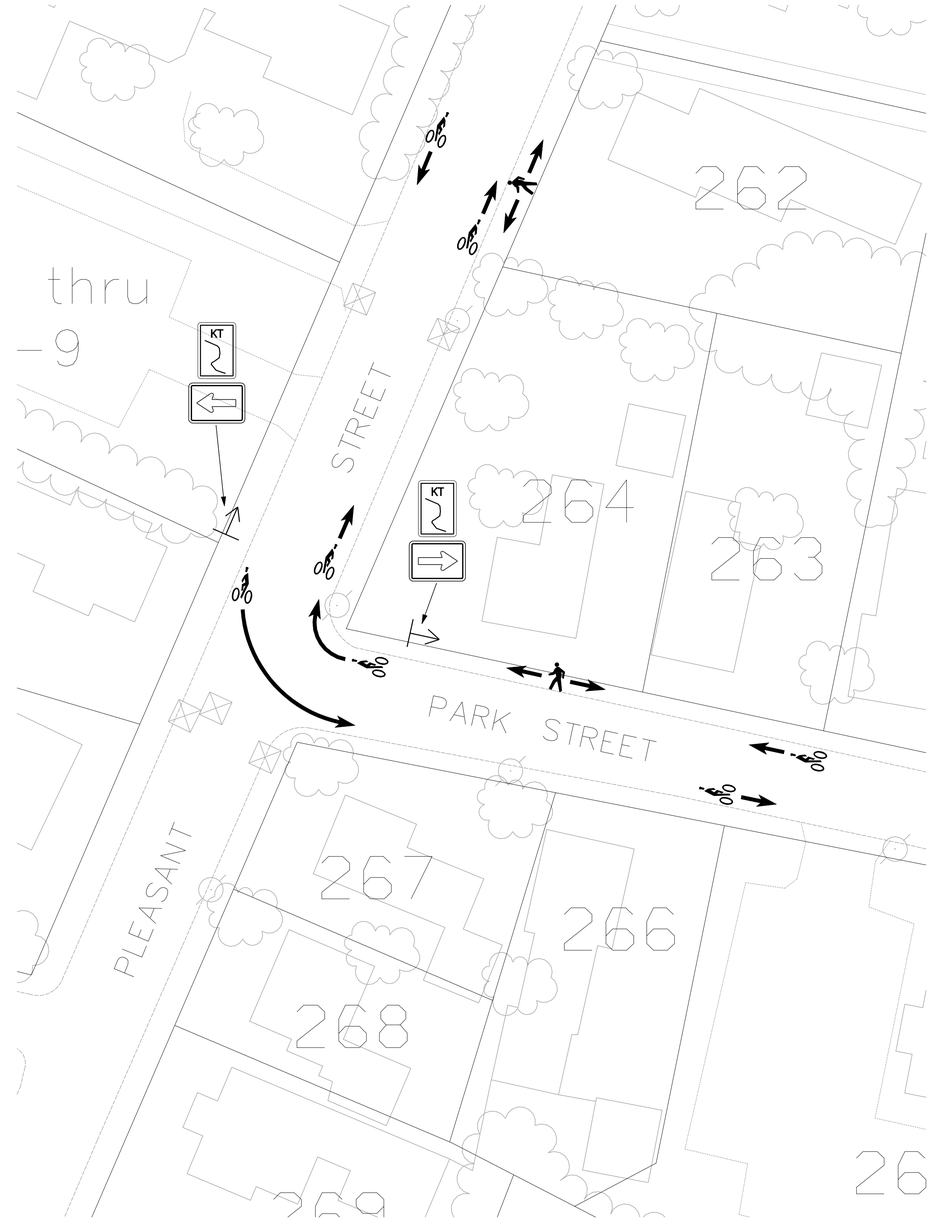
SCALE




PLAN

25 0 25 50

SCALE

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|---|---|
| Scale | AS NOTED |
| Date | 5/06/ 2009 |
| Job No. | 2009009 |
| Designed by | PLH |
| Drawn by | DSS |
| Checked by | KSW |
| Approved by | PLH |

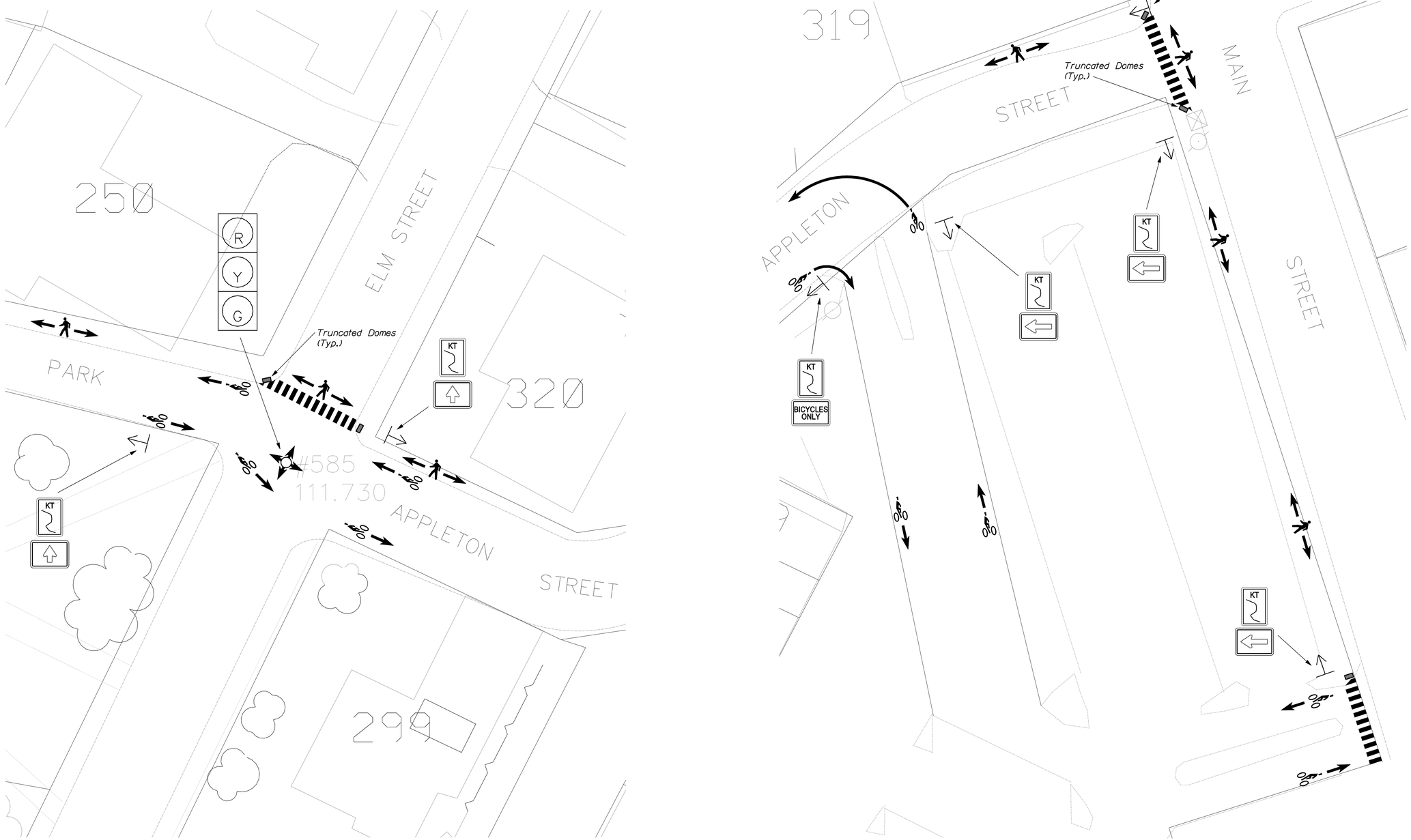
| No. | Description | Date |
|---|---|---|
| | REVISIONS | |

Client: CITY OF WATERVILLE, ME

Project: WATERVILLE CONNECTING TRAIL

Drawing: ROADWAY SIGNAGE PLANS

Sheet 21




PLAN

25 0 25 50

SCALE

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| | |
|---|---|
| Scale | AS NOTED |
| Date | 5/06/ 2009 |
| Job No. | 2009009 |
| Designed by | PLH |
| Drawn by | DSS |
| Checked by | KSW |
| Approved by | PLH |

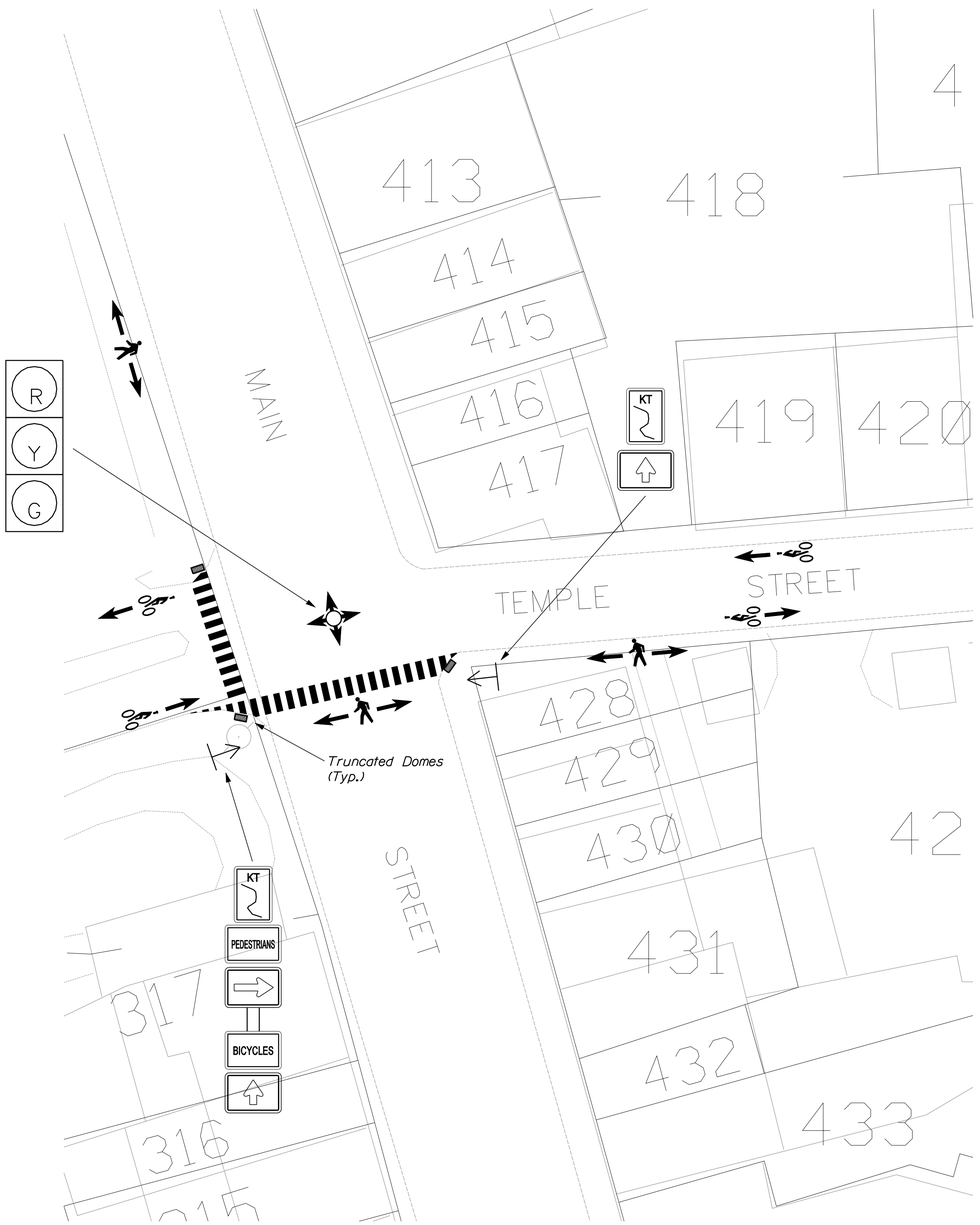
| No. | Description | Date |
|---|---|---|
| | REVISIONS | |

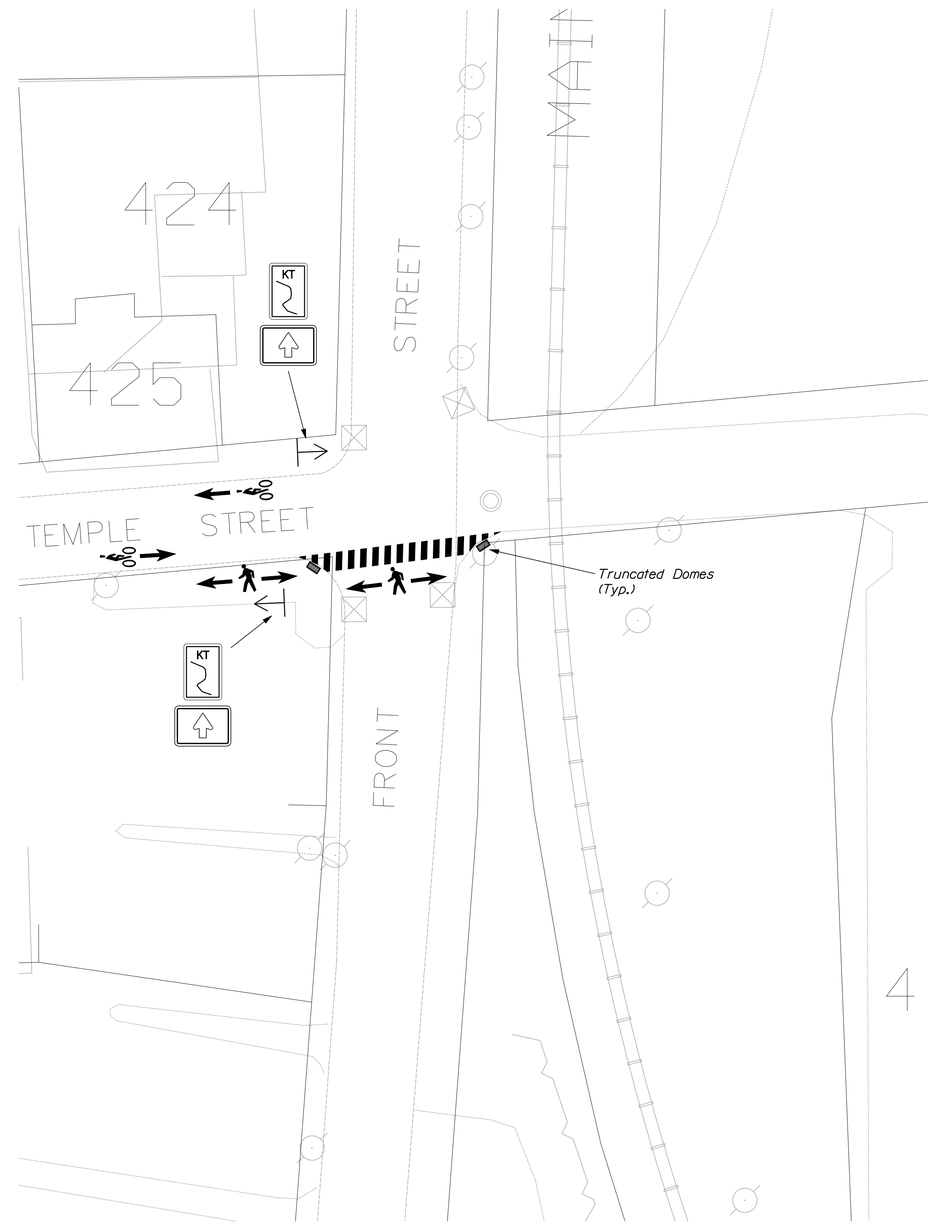
Client: CITY OF WATERVILLE, ME

Project: WATERVILLE CONNECTING TRAIL

Drawing: ROADWAY SIGNAGE PLANS

Sheet 22




PLAN

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SCALE

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| Date | Description | No. |
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| Scale | AS NOTED |
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| Job No. | 2008009 |
| Designed by | PLH |
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| Checked by | KSW |
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Client: CITY OF WATERVILLE, ME

Project: WATERVILLE CONNECTING TRAIL

Drawing: ROADWAY SIGNAGE PLANS

Sheet 23