RAMP MARKING DETAIL
SCALE: N.T.S.

CENTERLINE OF TRAVEL LANE (TYP.)

RAISED CROSSWALK RAMP MARKING

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

RAISED CROSSWALK RAMP MARKING

CITY OF CAMBRIDGE STANDARD DETAILS

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DETECTABLE WARNING PANEL (SEE DETAIL) TO BE INSTALLED AS SHOWN ON PLANS.

FLUSH GRANITE CURB AT TOP OF RAMP (TYP.)

CONCRETE SIDEWALK

PROP. BOTTOM OF RAISED CROSSWALK

MAX 5% SLOPE

PROP. BOTTOM OF RAISED CROSSWALK

RAISED CROSSWALK ISOMETRIC PLAN

SCALE: N.T.S.
DETECTABLE WARNING PANEL (SEE DETAIL) TO BE INSTALLED AS SHOWN ON PLANS

MAX 5% SLOPE

RAISED CROSSWALK PLAN VIEW

SCALE: N.T.S.
NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL RAISED INTERSECTION CONSTRUCTION REQUIREMENTS
MEET EXISTING
PAVEMENT

LIMIT OF WORK
8'-0"
COLD PLANE

PROP FULL DEPTH

EXISTING
PAVEMENT

2" SAWCUT AND
APPLY
LONGITUDINAL
JOINT ADHESIVE

HMA SURFACE/BASE COURSES

NOTES:
1. CLEAN ALL COLD PLANED SURFACES BEFORE APPLYING JOINT ADHESIVE, TACK COAT AND FINAL PAVEMENT.
2. APPLY TACK COAT TO COLD PLANED SURFACES PRIOR TO BEING OVERLAID AT THE RATE OF 0.10 GALLONS PER SQUARE YARD.
3. TEMPORARY PAVEMENT SHALL BE PLACED ALONG ANY LIP CREATED BY PAVEMENT REMOVAL. TEMPORARY PAVEMENT SHALL BE PLACED AT A SLOPE OF LESS THAN 1V:3H.
4-WAY RAISED INTERSECTION PLAN

SCALE: N.T.S. CITY OF CAMBRIDGE STANDARD DETAILS 1/20

SEE: RAISED INTERSECTION PROFILE
RAISED INTERSECTION W/ PAVERS DETAIL

DETECTABLE WARNING PANEL (SEE DETAIL THIS SHEET) TO BE INSTALLED AS SHOWN ON PLANS

RED "OPTILOCK" PAVER FIELD (TYP)

7% SLOPE

10' CROSSWALK (TYP)

GRANITE (TYP)
NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL RAISED INTERSECTION CONSTRUCTION REQUIREMENTS

12" CONCRETE (TYP.)

6" ASPHALT, 1 1/2 LIFTS 1 TOP, 3 DENSE BINDER 95% COMPACTION (TYP.)

4" DENSE GRADE (95% TYP. COMPACTION)

MIN. 12" GRAVEL (95% TYP. COMPACTION)

See Raised Intersection W/ Pavers Detail - Bus Routes

See pavement transition detail (TYP.)

Vertical granite flush curb, 6"x18"

DRAIN 2 IN. (40mm) DIA. WEEP HOLES 10' O.C.; FILL WITH 1/4 IN. CHIP AGGREGATE, NO FINES (TYP.); COVER WITH GEOTEXTILE FABRIC. PLACE PERIMETER WEEP HOLES 1' FROM CURB & 10' O.C. THROUGHOUT

8" concrete base 5,000 PSI WITH FIBER REINFORCEMENT

1" concrete sand ASTM C-33

Geotextile (placed on top of concrete)

3-1/4" 7% SLOPE

9" TYP. 6" CONCRETE

6" crushed stone (TYP.)

2" MIN FULL DEPTH

6" CONCRETE (TYP.)

SEE RAISED INTERSECTION W/ PAVERS DETAIL - BUS ROUTES

Vertical granite flush curb, 6"x18"

DRAIN 2 IN. (40mm) DIA. WEEP HOLES 10' O.C.; FILL WITH 1/4 IN. CHIP AGGREGATE, NO FINES (TYP.); COVER WITH GEOTEXTILE FABRIC. PLACE PERIMETER WEEP HOLES 1' FROM CURB & 10' O.C. THROUGHOUT

8" concrete base 5,000 PSI WITH FIBER REINFORCEMENT

1" concrete sand ASTM C-33

Geotextile (placed on top of concrete)

3-1/4" 7% SLOPE

9" TYP. 6" CONCRETE

6" crushed stone (TYP.)

2" MIN FULL DEPTH

6" CONCRETE (TYP.)

SEE RAISED INTERSECTION W/ PAVERS DETAIL - BUS ROUTES

Vertical granite flush curb, 6"x18"

DRAIN 2 IN. (40mm) DIA. WEEP HOLES 10' O.C.; FILL WITH 1/4 IN. CHIP AGGREGATE, NO FINES (TYP.); COVER WITH GEOTEXTILE FABRIC. PLACE PERIMETER WEEP HOLES 1' FROM CURB & 10' O.C. THROUGHOUT

8" concrete base 5,000 PSI WITH FIBER REINFORCEMENT

1" concrete sand ASTM C-33

Geotextile (placed on top of concrete)

3-1/4" 7% SLOPE

9" TYP. 6" CONCRETE

6" crushed stone (TYP.)

2" MIN FULL DEPTH

6" CONCRETE (TYP.)

SEE RAISED INTERSECTION W/ PAVERS DETAIL - BUS ROUTES

Vertical granite flush curb, 6"x18"

DRAIN 2 IN. (40mm) DIA. WEEP HOLES 10' O.C.; FILL WITH 1/4 IN. CHIP AGGREGATE, NO FINES (TYP.); COVER WITH GEOTEXTILE FABRIC. PLACE PERIMETER WEEP HOLES 1' FROM CURB & 10' O.C. THROUGHOUT

8" concrete base 5,000 PSI WITH FIBER REINFORCEMENT

1" concrete sand ASTM C-33

Geotextile (placed on top of concrete)

3-1/4" 7% SLOPE

9" TYP. 6" CONCRETE

6" crushed stone (TYP.)

2" MIN FULL DEPTH

6" CONCRETE (TYP.)

SEE RAISED INTERSECTION W/ PAVERS DETAIL - BUS ROUTES

Vertical granite flush curb, 6"x18"

DRAIN 2 IN. (40mm) DIA. WEEP HOLES 10' O.C.; FILL WITH 1/4 IN. CHIP AGGREGATE, NO FINES (TYP.); COVER WITH GEOTEXTILE FABRIC. PLACE PERIMETER WEEP HOLES 1' FROM CURB & 10' O.C. THROUGHOUT

8" concrete base 5,000 PSI WITH FIBER REINFORCEMENT

1" concrete sand ASTM C-33

Geotextile (placed on top of concrete)

3-1/4" 7% SLOPE

9" TYP. 6" CONCRETE

6" crushed stone (TYP.)

2" MIN FULL DEPTH
NOTES:

1. WEEP HOLES TO BE CONSTRUCTED WITH 2” PVC SLEEVE OR EQUIVALENT. CONTRACTOR TO PREVENT CEMENT CONCRETE FROM COVERING THE WEEP HOLES.

2. PROTECT PAVER SURFACE WITH URETHANE SCUFF PAD DURING COMPACTION.

RAISED INTERSECTION W/ PAVERS - BUS ROUTE

TYPICAL EXISTING ROAD GRADE

6” +/-

22” +/-

4 1/4” 1” (25MM)

16” +/-

UNILOCK PAVER

JOINT SAND - (POLYMERIC SAND REQUIRED)

SAND SETTING BED – 1” OF CONCRETE SAND ASTM C-33

GEOTEXTILE/FILTER FABRIC BARRIER FOR SAND SETTING BED. SECURE TO CONCRETE

8” CONCRETE BASE 5,000 PSI WITH FIBER REINFORCEMENT

4” DENSE GRADE (95% COMPACITION)

MIN. 12” GRAVEL (95% COMPACITION)

SUB-GRADE

GEOTEXTILE AS REQUIRED

2 IN. (40mm) DIA. WEEP HOLES @ 10’ O.C.; FILL WITH 1/4 IN. CHIP AGGREGATE, NO FINES (TYP.); COVER WITH GEOTEXTILE FABRIC. PLACE PERIMETER WEEP HOLES 1’ FROM CURB & 10’ O.C. THROUGHOUT

RAISED INTERSECTION W/ PAVERS DETAIL - BUS ROUTE

CITY OF CAMBRIDGE STANDARD DETAILS

THE WORKS

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

SCALE: N.T.S.

DATE OF ISSUE: 2/6

SPEC. SECTION REF#:
NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL RAISED INTERSECTION CONSTRUCTION REQUIREMENTS

12" CONCRETE (TYP.)

6" ASPHALT, 1 1/2 LIFTS 1 TOP, 3 DENSE BINDER 95% COMPACTION (TYP.)

4" DENSE GRADE (95% TYP. COMPACTION)

MIN. 8" GRAVEL (95% TYP. COMPACTION)

SEE RAISED INTERSECTION W/ PAVERS DETAIL - RESIDENTIAL STREET

1" CONCRETE SAND ASTM C-33

VERTICAL GRANITE FLUSH CURB, 6"X18"

GEOTEXTILE (PLACED ON TOP OF ASPHALT)

3-1/4"

2' MIN FULL DEPTH

MIN. 6" CRUSHED STONE (TYP.)

FULL DEPTH

9" TYP. 8" CONCRETE

6" DENSE BINDER, 4-1 1/2 LIFTS

DRAIN 2 IN. (40mm) DIA. WEEP HOLES 10' O.C.; FILL WITH 1/4 IN. CHIP AGGREGATE, NO FINES (TYP.); COVER WITH GEOTEXTILE FABRIC. PLACE PERIMETER WEEP HOLES 1' FROM CURB & 10' O.C. THROUGHOUT

7% SLOPE

VERTICAL GRANITE FLUSH CURB, 6"X18"

6" ASPHALT, 1 1/2 LIFTS 1 TOP, 3 DENSE BINDER 95% COMPACTION (TYP.)

12" CONCRETE (TYP.)

4" DENSE GRADE (95% TYP. COMPACTION)

MIN. 8" GRAVEL (95% TYP. COMPACTION)

SEE PAVEMENT TRANSITION DETAIL (TYP.)

RAISED INTERSECTION PROFILE - PAVERS W/ ASPHALT BASE - RESIDENTIAL STREET

SCALE: N.T.S.
NOTES:

1. Weep holes to be constructed with 2" PVC sleeve or equivalent. Contractor to prevent cement concrete from covering the weep holes.

2. Protect paver surface with urethane scuff pad during compaction.

RAISED INTERSECTION W/ PAVERS-RESIDENTIAL STREET

SCALE: N.T.S.

RAISED INTERSECTION W/ PAVERS DETAIL - RESIDENTIAL STREET

CITY OF CAMBRIDGE STANDARD DETAILS

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The Cambridge Department of Public Utilities

Cambridge, Massachusetts

2009

The Works