Description:
The purpose of the section is to highlight the current applicable UMD Design Standards for the design of common site features utilized on the campus.

Related Sections:
- TBD

Effective Date:
January 1, 2021

Applicable Standards:
- Maryland Department of Transportation

General Requirements:
Campus wide site standards have been established for the following items:
- Concrete Steps:
  - w/o Cheekwall
  - w/Cheekwall
- Curb Types:
  - Bituminous Concrete Curb
  - 6" and 8" Concrete Curb and Gutter
  - 8" Mountable Curb
  - 4" Concrete Landscape Curb
- Handrail Types:
  - TBD
- Paving Types
  - Concrete Pavers
  - Concrete Walks
  - Bituminous Asphalt Paving
  - Brick on Concrete
- Planting Details
  - Trees: TBD
  - Shrubs: TBD
- Ramps for Persons with Disabilities (PWD)
  - PWD Ramp, Plan View
  - PWD Ramp, Section
- Security Gates
Specific Requirements:

- **Concrete Steps w/o Cheekwall**
  - Use Criteria: provide its expected/typical location and/or use
  - Manufacturer: N.A.
  - Model: N.A.
  - Description/Material: Cast-in-place *(as specified)*
  - Finish: Non smooth slip resistant
  - Performance: Meets ADA requirements Railing criteria
  - Related Details: TBD

- **Concrete Steps w/ Cheekwall**
  - Use Criteria: provide its expected/typical location and/or use
  - Manufacturer: N.A.
  - Model: N.A.
  - Description/Material: Cast-in-place *(as specified)*
  - Finish: Non smooth slip resistant
  - Performance: Meets ADA requirements Railing criteria
  - Related Details: TBD

- **Curbs**
  - Concrete Curb
  - 6" and 8" Concrete Curb and Gutter
  - 8" Mountable Curb
  - 4" Concrete Landscape Curb
    - Use Criteria: provide at expected/typical location
    - Manufacturer: N.A.
    - Model: N.A.
    - Description/Material: Cast-in-place *(as specified)*
    - Finish: Smooth
    - Performance: Meets ADA requirements
    - Related Details: TBD

- **Handrail (Decorative)**
  - Material: Moulded steel with flat black paint finish.
  - Manufacturer: Acme Iron Works, Inc. Tuxedo, Md.
  - Model: Style #104 or similar style
  - Description: Moulded steel with red enamel primer and black flat paint finish. Moulded top bar, 1/2" square pickets spaced 4" O.C. and a lamb's tongue.
  - Performance: Placed on steps of more than three treads and as required by ADA Standards.

- **Handrail (Regular)**
  - Material: Fabricated with flat black paint finish.
  - Manufacturer: Acme Iron Works, Inc. Tuxedo, Md.
  - Model: TBD
  - Description: Moulded steel with red enamel primer and black flat paint finish. Moulded top bar, 1/2" square pickets spaced 4" O.C.
  - Finish: Painted
  - Performance: Placed on steps of more than three treads and as required by ADA Standards.
  - Related Details: TBD
Site Standards and Details

Paving Types

- M.1. Interlocking Concrete Pavers
- M.2. Concrete Sidewalk/Walkways
- M.3. Bituminous Asphalt Paving
- M.4. Brick on Concrete
2.13 SITE STANDARDS

NOTE:
PROPOSED SURFACE SHOULD EXTEND
6' BEYOND BACK OF CURB BUT
NOT MORE THAN 12'

2" R.

+ 47"

10'

7 1/2'

TOP OF EXISTING
OR PROPOSED BASE

2'

9'

BITUMINOUS CONCRETE CURB

NTS

SOIL BACKFILL
6" & 8" CONCRETE CURB AND GUTTER

3500 PSI CONCRETE
4" COMPACTED MSHA GA BASE
COMPACTED BACKFILL/UNDISTURBED SOIL

ASPHALT PAVING
1/8"/1FT
1'-4" 8"
7"
2.13 SITE STANDARDS

COMPACTED MSHA GA BASE
3500 PSI CONCRETE
COMPACTED BACKFILL/
UNDISTURBED SOIL

8" MOUNTABLE CURB
NTS
2.13 SITE STANDARDS

NOTE:
1. PROVIDE HORIZONTAL RAILINGS AT LANDING
2. SLOPE ANCHOR CEMENT AWAY FROM POST AND CONTAIN CLEANLY WITHIN 2" HOLE
3. ALLOW 1" CLEARANCE BETWEEN LAMBS TONGUE AND END POST
4. ALTERNATIVE RAILINGS WILL BE CONSIDERED.

SECTION A-A

HANDRAIL
INTERLOCKING CONCRETE PAVERS

NOTE: CONCRETE PAVER TO BE COMPACTED WITH VIBRATORY TAMPER
2.13 SITE STANDARDS

6"x6" W0.1xW0.1 WWF (STOP AT EXPANSION JOINTS)

TOOLEO CONTROL JOINT 3/4" WIDE X 1" DEEP

3500 PSI CONCRETE (STANDARD BROOM FINISH)

1/2" FULL DEPTH EXPANSION JOINT

NOTE:
MINIMUM DISTANCE BETWEEN CONTROL JOINTS
SHALL BE EQUAL TO WIDTH OF SIDEWALK OR
AS SHOWN ON THE SITE PLAN

COMPACTED MSHA GA BASE

COMPACTED BACKFILL
UNDISTURBED SOIL

CONCRETE WALK

NTS
2.13 SITE STANDARDS

FINISHED SURFACE

SC MIX
TACK COAT
BF MIX
GRADED AGGREGATE BASE
PER MSHA

COMPACTED BACKFILL/
UNDISTURBED SOIL

BITUMINOUS ASPHALT PAVING

NTS

NOTE: PROVIDE THIS SECTION ONLY IF ENGINEERED DESIGN IS NOT FEASIBLE, AND ONLY WITH APPROVAL FROM FACILITIES MANAGEMENT.
SECTION

BRICK ON CONCRETE

NOTE: FOR USE IN NON-VEHICULAR AREAS. SEE CONCRETE PAVER DETAIL FOR TYPICAL VEHICULAR PAVER APPLICATION.
2.13 SITE STANDARDS

NOTE:
1. DO NOT INSTALL MULCH WITHIN 6" OF TREE TRUNK
2. INSTALL TOP OF ROOT BALL AT FINISHED GRADE

DO NOT CUT LEADER

RUBBER HOSE
TWISTED GUY WIRE
2"x2"x8' HARDWOOD STAKE DRIVEN FIRMLY INTO SOIL

CUT BURLAP AND ROPE AWAY FROM 1/2 OF BALL
2' SHREDDED HARDWOOD MULCH
FINISHED GRADE

APPROVED BACKFILL AND PLANTING MIX AS SPECIFIED

UNDISTurbed SUBSOIL

TREE PLANTING DETAIL

NYS

Design Criteria/Facility Standards Manual
University of Maryland, College Park
2.13 SITE STANDARDS

CUT BURLAP AND
ROPE AWAY FROM
1/2 OF BALL

3" SHREDED HARDWOOD MULCH

6" SAUCER

FINISHED GRADE

APPROVED BACKFILL AND
PLANTING MIX AS SPECIFIED

COMPACTED BACKFILL

3X DIA. ROOT BALL

NOTE:
PLANT TOP OF ROOT BALL 2" ABOVE GRADE

CUT CONTAINER GROWN ROOTBALL
AS SHOWN PRIOR TO PLANTING

SHRUB PLANTING DETAIL

NTS
2.13 SITE STANDARDS

CONCRETE RAMP (STIFF BRUSH FINISH) CHEVRON PATTERN

TAPE ROLL CONCRETE (STIFF BRUSH FINISH)

NOTE
1. SEE SECTION A-A
2. REFER TO ADA STANDARDS FOR SPECIFIC ADJUNCT SITE REQUIREMENTS

PLAN VIEW

CURB RAMP

NTS
2.13 SITE STANDARDS

1/2' EXPANSION JOINT

6'X6' W2.1 X W2.1 WWF

STIFF BROOM FINISH (SEE PLAN VIEW)

COMPACTED BACKFILL
OR UNDISTURBED SOIL

4' COMPACTED MSHA GA BASE

NOTE
3500 PSI CONCRETE (STIFF BROOM FINISH)

SECTION ‘A-A’

PWD RAMP

NTS
2.13 SITE STANDARDS  

NOTE
1. WELDED JOINTS TO BE CONTINUOUS WELD.
2. APPLY ONE COAT PRIMER AND TWO COATS ENAMEL PAINT, COLOR PER OWNER
3. ATTACH SIGN TO GATE USING GALVANIZED BOLTS.

GATE HINGE DETAIL ShOWN ABOVE.
3500 PSI CONCRETE
SCHEDULE 80-5" STEEL PIPE

1/2"X 3-1/2" MACHINE BOLT
1/8" WASHER
1/2" STEEL PLATE WELDED TO POST

HINGE DETAIL
NTS

SECURITY GATE
NTS
SECTION 'A-A'

PLAN VIEW

TREE GRATE

NTS
2.13 SITE STANDARDS

TOP OF BALL 3' BELOW GRATE
FILL W/PEA GRAVEL TO TOP OF GRATE
3' DEPTH
TREE GRATE (SEE SPECS)
W/FRA ME

6' 40 SCHEDULE, PVC
PERFORATED PIPE
WITHIN 12' X 12'
TRENCH FILLED WITH
PEA GRAVEL. WRAP
TRENCH WITH FILTER
CLOTH.

TREE GRATE

NTS