CURB RAMP DETAIL

NOTES:

1. DIMENSIONS:
   SMALL SITE – 20’ (LENGTH) x 20’ (WIDTH) MIN DIMENSIONS
   8” DEPTH OF 1 1/2” DRAIN ROCK, OR CITY APPROVED EQUAL
   LARGE SITE – 50’ (LENGTH) x 20’ (WIDTH) MIN DIMENSIONS
   8” DEPTH OF DRAIN ROCK, OR CITY APPROVED EQUAL
   GEOTEXTILE FABRIC, AS REQUIRED TO PREVENT SUBSOIL PUMPING

2. TIRE WASH MAY BE REQUIRED ON LARGE SITE IF CONSTRUCTION ENTRANCE DOES NOT PREVENT TRACKING.

3. 3/4”–0” MINUS IS NOT ACCEPTABLE. IT WILL NOT PROVIDE PROPER DRAINAGE.

4. INSTALL CLEAN ROCK WHEN INITIAL LIFT FILLS WITH MUD.
NOTES:

1. CONTRACTOR TO REMOVE ACCUMULATED SEDIMENT FROM WHEEL WASH; MAY BE PIPPED TO AN APPROVED SEDIMENT TRAP.
2. USE GEOTEXTILE FABRIC WITH AGGREGATE FOR A TEMPORARY TIRE WASH.
3. TIRE WASH MAY BE REQUIRED IF STABILIZED CONSTRUCTION ENTRANCE DOES NOT PREVENT TRACKING.

CITY OF KLAMATH FALLS

TIRE WASH

Drwn. By: GDG
Date: 1/2002

Approved By: Mike Kuenzi
Drwg. No.: 3-105
**PLAN VIEW**

- Gravel Construction Entrance
- Direction of slope maximum 5%
- Sidewalk subgrade
- Curb
- Asphalt roadway
- *Install sediment control measures at the corner and extends 6′ min. in both directions

**PROFILE**

- Existing ground
- 4′ min. width
- 4″ min. depth
- Plug all weep holes
- Sidewalk subgrades
  - 2″ layer of 3/4″-0″ state spec crushed aggregate
- Asphalt

**CITY OF KLAMATH FALLS**

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**SIDEWALK SUBGRADE BARRIER**

Drawn by: GDG
Date: 1/2002

Approved by: Mark Willrett

Drwg. No.: 3-110

16/06 4th Edition
NOTES:
1. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
2. COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES.
UNDISTURBED VEGETATION

CULTIVATE SOIL TO CREATE FURROWS PERPENDICULAR TO SLOPE

UNDISTURBED VEGETATION

INTERCEPTOR SWALE

USE DOZER TRACKS TO CREATE GROOVES PERPENDICULAR TO SLOPE

SLOPE ROUGHENING

Approved By: Mike Kuenzi
DEBRIS FROM SLOPE ABOVE IS CAUGHT BY STEPS.

WATER, SOIL, AND FERTILIZER ARE HELD BY STEPS. PLANTS CAN BECOME ESTABLISHED ON THE STEPS.

GROOVING IS CUTTING FURROWS ALONG THE CONTOUR OF A SLOPE. IRREGULARITIES IN THE SOIL SURFACE REDUCE RUNOFF VELOCITY, PROMOTE INFILTRATION, AND RETAIN LIME, FERTILIZER, AND SEED.

CITY OF KLAMATH FALLS

GRADIENT TERRACING

Drwn. By: GDG
Date: 1/2002
Drwg. No.: 3-125

Approved By: Mike Kuenzi
EXTEND BLANKET A MINIMUM OF 3' ABOVE CROWN OF SLOPE

STAPLE EDGE 1' OC

SIDE AND END OVERLAP 6"

SHALLOW SLOPES 4:1 OR LESS

BURY TOP 4" OF BLANKET AND STAPLE EDGE 1' OC

SIDE AND END OVERLAP 6"

MODERATE SLOPES 3:1

BURY TOP 12" OF BLANKET IN 6" x 6" TRENCH

STAPLE BOTTOM EDGE OF BLANKET 1' OC

SIDE AND END OVERLAP 6"

STEEP SLOPES 2:1 OR GREATER

NOTES:
1. ON SHALLOW SLOPES, BLANKETS MAY BE APPLIED ACROSS THE SLOPES.
2. ALL BLANKET STAPLE REQUIRED AS PER TABLE, STANDARD DRAWING 3-140.
CHANNEL INSTALLATION

NOTES:

1. THESE ARE MINIMUM REQUIREMENTS. IF MANUFACTURERS REQUIREMENTS ARE MORE STRINGENT, THEY SHALL BE USED.
2. INSTALL MAT PARALLEL IN CENTER OF CHANNEL IN DIRECTION OF FLOW. FOR CULVERT OUTFALLS, PLACE MAT UNDER CULVERT OR RIP RAP A MINIMUM OF 12 INCHES.
3. IN CHANNEL BOTTOM, OVERLAP LENGTH ENDS A MINIMUM OF 12 INCHES.
4. REFER TO STANDARD DRAWING 3-130 FOR CHANNEL SLOPE APPLICATION.
5. REFER TO STANDARD DRAWING 3-140 FOR STAPLE PATTERN.
6. LENGTH OF STAPLES SHALL BE DETERMINED BY SOIL TYPE. SOIL USE 6 INCH, NON-COHESIVE SOILS 8-12 INCH.
STAPLE PATTERN

LENGTH AND SLOPE TABLE

MINIMUM STAPLE PATTERN GUIDE AND RECOMMENDATION FOR SLOPE AND CHANNEL APPLICATION.

CITY OF KLAMATH FALLS

MATTING STAPLE TABLE
BOTTOM WIDTH: 2 FEET MINIMUM; THE BOTTOM WIDTH SHALL BE LEVEL
DEPTH: 1 FOOT MINIMUM
SIDE SLOPE: 2H:1V OR FLATTER
GRADE: MAXIMUM 5 PERCENT, WITH POSITIVE DRAINAGE TO A
SUITEABLE OUTLET (SUCH AS SEDIMENTATION POND)

DIVERSION SWALE

DIKE MATERIAL COMPACTED TO 95% PER AASHTO T-99

TEMPORARY DIVERSION DIKE

NOTE:
1. IMMEDIATELY UPON CONSTRUCTION, ESTABLISHED VEGETATION OR EROSION CONTROL
   BLANKETS ARE REQUIRED.
2. SPACING AS FOLLOWS: <5% – 300 FEET; 5–10% – 200 FEET; 10–40% – 100 FEET.
CITY OF KLAMATH FALLS

PIPE SLOPE DRAIN

撬穴细节 - 前视图

撬穴细节 - 顶部视图

CMP或HDPE适当地尺寸用于预期流量

干扰器堤

尖端或锥

锚定在5'中心

淤泥围栏仅

当排放时要求

淤泥 laden 水

淤泥围栏

现有等级

6D

3D

1'

6' MIN.

1' MIN.

D

SCOUR HOLE DETAIL - FRONT VIEW

SCOUR HOLE DETAIL - TOP VIEW
SILT FENCE

NOTES:
1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
2. 2" X 2" FIR, PINE OR STEEL FENCE POSTS.
3a. POSTS TO BE INSTALLED ON UPHILL SIDE OF SLOPE (STITCHED FABRIC).
3b. POSTS TO BE INSTALLED ON DOWNHILL SIDE OF SLOPE (STAPLED FABRIC).
4. COMPACT BOTH SIDES OF FILTER FABRIC.
5. MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED 1/2 ACRE PER 100 LF OF FENCE.
6. SILT FENCE SHALL NOT BE USED FOR CONCENTRATED FLOWS UNLESS APPROVED BY PUBLIC WORKS.

PROFILE
MAX. SLOPE LENGTH
50 FEET
75 FEET
100 FEET
SLOPE STEEPNESS
2.1
3.3
4:1 & FLATTER

FRONT VIEW
FILTER FABRIC MATERIAL
36" WIDE ROLLS
6' MAX SPACING

PLAN VIEW
INTERLOCKED 2" X 2" POSTS AND ATTACH

CITY OF KLAMATH FALLS

Date: 1/2002
Drwng. No.: 3-155
Approved By: Don Wilcox

Drawn By: GDG
NOTE:

1. STAKING OF BAGS REQUIRED USING TWO (2) 1"x2" WOOD STAKES OR APPROVED EQUAL PER BAG.
2. BAGS ARE USED AS ALTERNATE FOR SEDIMENT FENCE FOLLOWING INSTALLATION OF SIDEWALK ON SMALL SITES ONLY.
STRAW BALE SEDIMENT BARRIER
SEMI-PERVIOUS

NOTES:

1. PLACE BALES PERPENDICULAR TO FLOW.

2. EMBED THE BALE 4" INTO THE SOIL AND "KEY" THE END BALES INTO THE CHANNEL BANKS.

3. BALES PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW, ROCKS OR FILTER FABRIC TO FILL ANY GAPS BETWEEN BALES AND TAMP BACKFILL MATERIALS TO PREVENT EROSION OR FLOW AROUND THE BALES.

4. POINT "A" SHALL BE HIGHER THAN POINT "B".

5. SPILLWAY HEIGHT SHALL NOT EXCEED 24".
RUNOFF WATER WITH SEDIMENT

3/4" TO 3" DRAIN ROCK (12" MIN DEPTH)

FINE WIRE MESH OR FILTER FABRIC ON TOP OF GRATE

18" MIN

GRAVEL & WIRE MESH
FINE WIRE MESH
CONCRETE BLOCK
GRAVEL FILTER OF 3/4” TO 3” CLEAN DRAIN ROCK
GRAVEL SLOPE

AREA DRAIN

FLOW

RUNOFF WATER
WITH SEDIMENT

OVERFLOW

FINE WIRE MESH

FILTERED WATER

DROP INLET WITH GRATE

FLOW

OPENINGS PERPENDICULAR TO FLOW

CURB INLET

BLOCK AND GRAVEL INLET BARRIERS

NOTE:
1. BLOCKS SHALL BE STACKED WITH THE OPENINGS ON TOP AND BOTTOM, EXCEPT FOR THE CENTER CLOCKS. CENTER BLOCKS WILL HAVE OPENINGS PERPENDICULAR TO FLOW.
CITY OF KLAMATH FALLS

INLET PROTECTION

TYPE 4

MAY BE USED SHORT TERM WITH UTILITY WORK AND WITH PHASING OF DEVELOPMENT

CATCH BASIN

AREA DRAIN

PLAN VIEW

PROFILE

DITCH INLET

NOTES:

1. ADDITIONAL MEASURES MUST BE CONSIDERED, DEPENDING ON SOIL TYPES.
2. BIOFILTER BAGS SHOULD BE STAKED, WHERE APPLICABLE, USING TWO (2) 1"x2" WOODEN STAKES, OR APPROVED EQUAL, PER BAG.
3. ‘ROCK SOCKS’ OR GRAVEL MAY BE CONSIDERED IN AREAS OUTSIDE OF THE STREET SECTION AND OTHER VEHICLE TRAVELED WAYS.

Approved By: Don Wilcox
NOTE:

1. RECESSED CURB INLET CATCH BASINS MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS. SIZE OF FILTER FABRIC INLET SACKS TO BE DETERMINED BY MANUFACTURER.
NOTES:

1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.

2. SANDBAGS, OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.

3. LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.

4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

5. "ROCK SOCKS" MAY ALSO BE CONSIDERED IN AREAS OUTSIDE OF THE STREET SECTION AND OTHER VEHICULAR TRAVELED WAYS.
ROCK CHECK DAM

L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

SPACING BETWEEN CHECK DAMS
ELEVATION – LOOKING UPSTREAM

'L' = THE DISTANCE SUCH THAT POINTS 'C' AND POINTS 'D' ARE OF EQUAL ELEVATION.

SPACING BETWEEN CHECK DAMS

NOTES:
1. EMBED BALES 4 INCHES INTO THE SOIL AND KEY BALES INTO CHANNEL BANKS.
2. POINT 'A' MUST BE HIGHER THAN POINT 'B' (SPILLWAY HEIGHT).
3. PLACE BALES PERPENDICULAR TO THE FLOW WITH ENDS TIGHTLY ABUTTING. USE STRAW, ROCKS OR FILTER FABRIC TO FILL ANY GAPS AND TAMPER BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND THE BANKS.
4. SPILLWAY HEIGHT NOT TO EXCEED 2 FEET.
5. INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.
CROSS SECTION

NOTE:
MAY BE CONSTRUCTED BY EXCAVATION OR BY BUILDING A BERM.

SEEDIMENT TRAP OUTLET

NOTES:
1. A SILT FENCE OR SIMILAR FILTER MUST BE CONSTRUCTED TO FILTER RUNOFF FROM THE SEDIMENT TRAP PRIOR TO DISCHARGE FROM THE CONSTRUCTION SITE.
2. SETTLING VOLUME >= 0.5 INCH STORM VOLUME.

CITY OF KLAMATH FALLS
NOTE:

1. 50' MINIMUM OF HIGHLY VEGETATED AND/OR SILT FENCE IS REQUIRED PRIOR TO DISCHARGE.
2. POND SETTLING VOLUME $\geq$ 0.5 INCH STORM VOLUME.
1. Implementation of the Grading and Erosion Control Plan and the construction, maintenance, replacement and upgrading of erosion control facilities is the responsibility of the applicant/owner and their contractor/subcontractors until all construction is completed and approved, and permanent cover is established on the site. Grading and erosion control shall comply with the construction documents and city standards.

2. The stabilized construction entrance shall be installed prior to the beginning of construction and maintained for the duration of the project. It shall be sole entrance or egress from the site. Additional measures may be required to ensure that all paved areas are kept clean for the duration of the project.

3. The boundaries of the clearing limits shown on this plan shall be clearly flagged in the field prior to construction. During the construction period, no disturbance beyond the flagged clearing limits shall be permitted. The flagging shall be maintained by the applicant/owner and their contractor/subcontractors for the duration of construction.

4. Erosion control measures shown on this plan must be constructed in conjunction with all clearing and grading activities, and in such a manner as to ensure that sediment and sediment laden water do not leave the site.

5. The erosion control facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these erosion control facilities shall be upgraded as needed for unexpected storm events or site conditions and to ensure that sediment and sediment laden water do not leave the site.

6. Erosion control facilities shall be inspected and maintained a minimum of once per month and within 24 hours following a storm event.

7. Visible deposits of sediment that leave the site shall be cleaned up within 24 hours and placed back onto the site or properly disposed. Under no condition shall sediment from the construction site be washed into sewers, drainage courses, or other portions of the conveyance system.

8. Excess soil from the site shall be hauled to the site specified on the erosion control plan. A separate permit is required for the fill site if the quantity hauled exceeds 50 cubic yards.

9. At no time shall more than one foot of sediment be allowed to accumulate within a trapped catch basin. All catch basins and conveyance systems shall be cleaned prior to paving. The cleaning operation shall not flush sediment laden water into the downstream system.

10. Dust Control: Preventative measures to minimize wind transport of soil shall be implemented when a nuisance or traffic hazard may be created or when sediment transported by wind may be deposited in water resources.

11. Once construction is complete and permanent cover is established, call for final inspection from the city. Remove temporary erosion control measures when approved by the city.

12. At the time of project close-out, for those requiring a DEQ 1200-C permit, the city will not accept the project until DEQ has satisfactorily approved the project and terminated the DEQ permit. In lieu of that requirement the developer will need to apply for a city site construction permit for grading purposes only. An updated plan and current fee will apply and be submitted with the permit application. The city permit will remain active until the developer has an approved termination of the 1200-C permit by DEQ, which a copy shall be provided to the city.