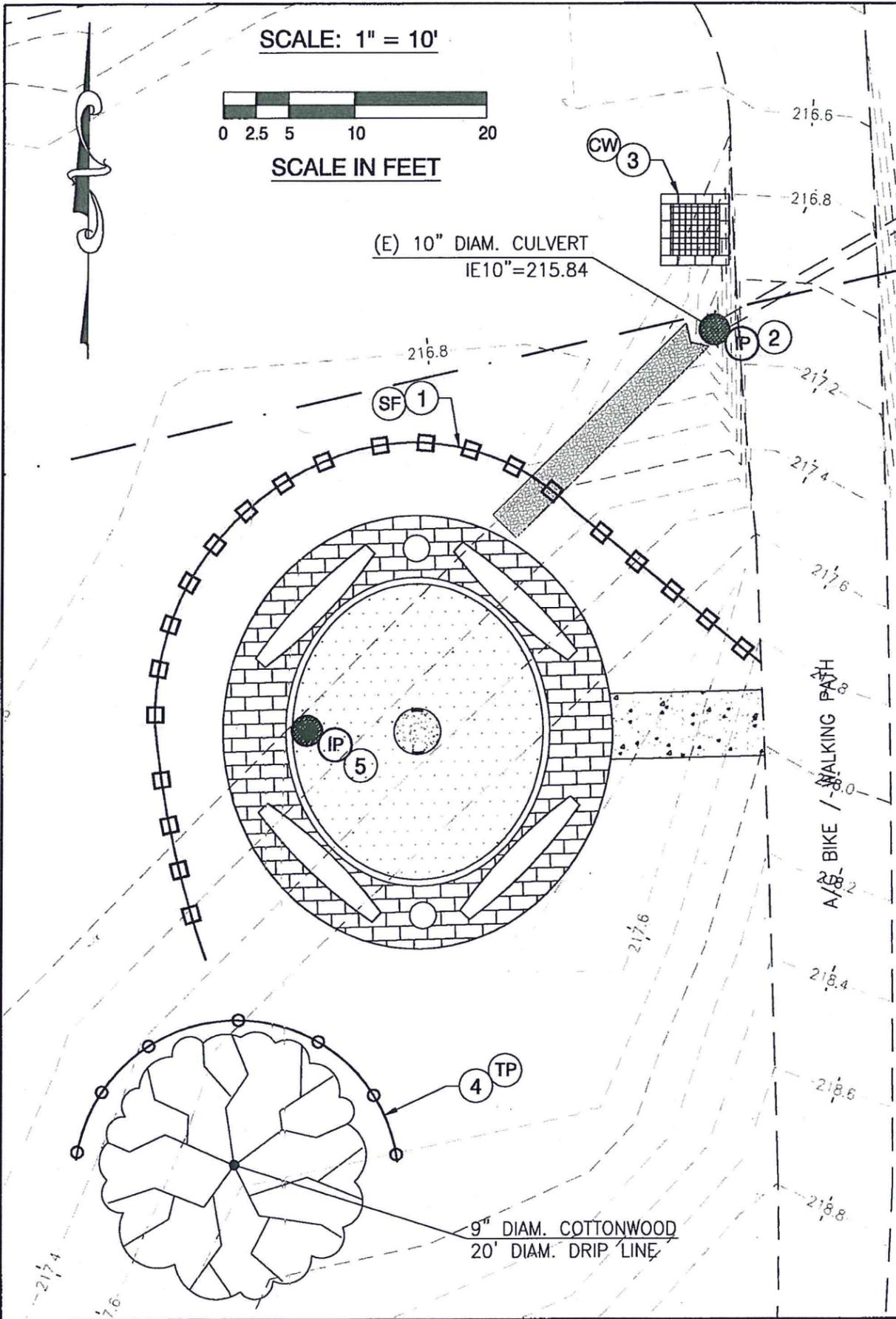


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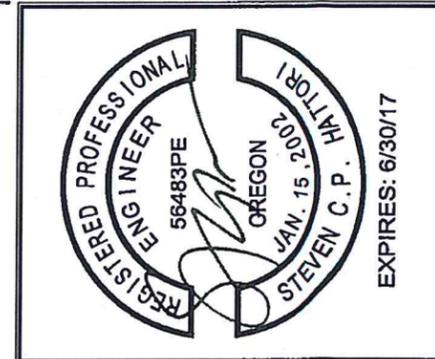
EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION AND GENERAL NOTES

1. REFER TO THE CURRENT CITY OF CORVALLIS EROSION PREVENTION AND SEDIMENT CONTROL MANUAL FOR GENERAL NOTES.
2. ALL BASE ESC MEASURES MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

- ① CONSTRUCT SEDIMENT FENCE PER DETAIL 3.3.1/C504.
- ② CONSTRUCT INLET PROTECTION, TYPE 4, PER DETAIL 3.3.7D/C504.
- ③ CONSTRUCT CONCRETE WASHOUT PER DETAIL 4.2.10/C505.
- ④ CONSTRUCT 48" HIGH ORANGE CONSTRUCTION FENCE FOR TREE PROTECTION WITH METAL T POSTS AT 6' O.C.. MIN. 5 ZIP TIES PER POST.
- ⑤ CONSTRUCT INLET PROTECTION, TYPE 5, PER DETAIL 3.3.7E/C505.

| LEGEND | | EROSION PROTECTION AND SEDIMENT CONTROL | |
|--------|---------|---|--|
| (SF) | —□—□— | SEDIMENT FENCE | |
| (CW) | ■ | CONCRETE WASHOUT | |
| (IP) | ● | INLET PROTECTION | |
| (TP) | —○—○—○— | TREE PROTECTION FENCE | |



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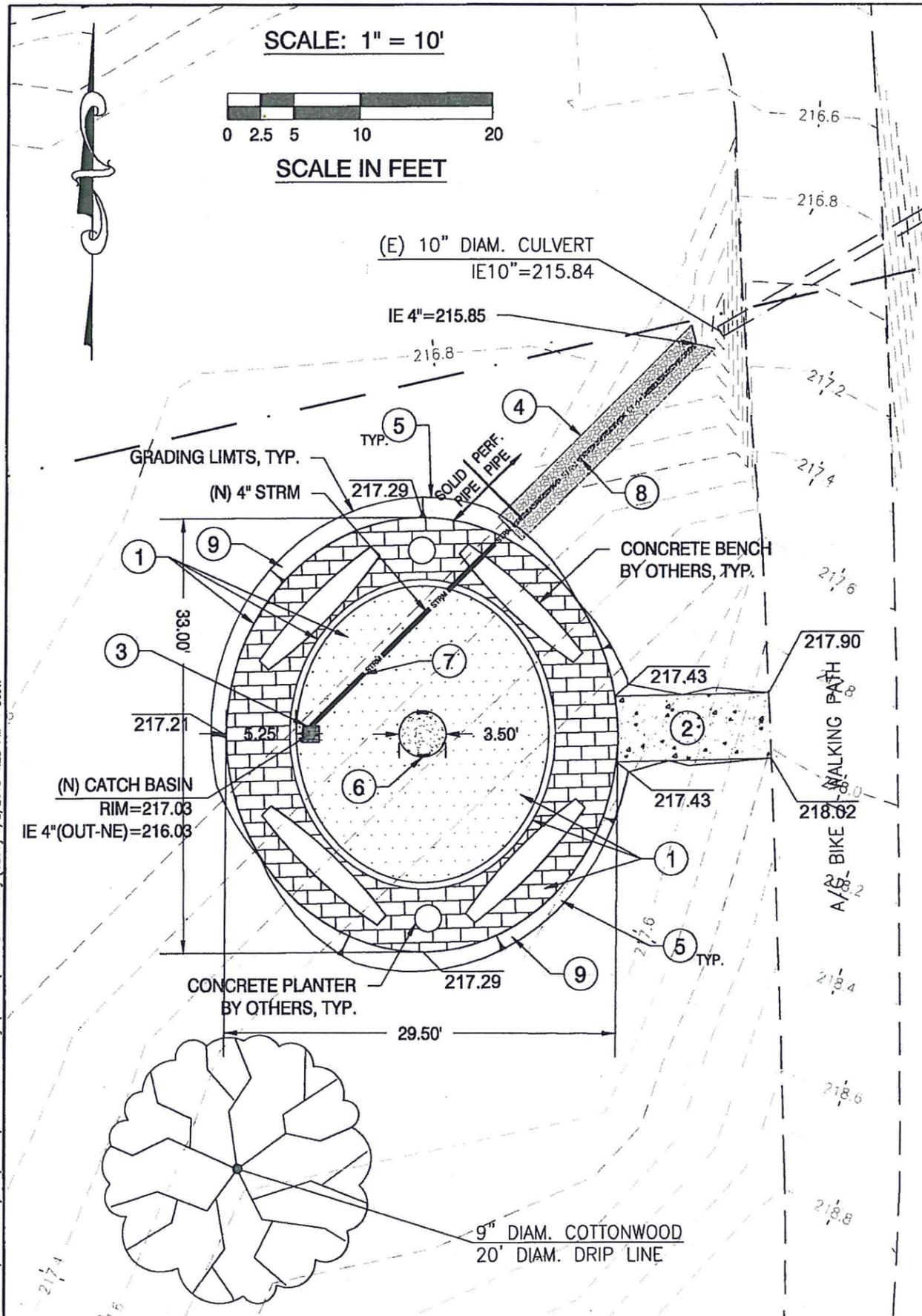
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 CLIENT: TRISH WEBER

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 SHEET TITLE: EROSION CONTROL PLAN
 DRAWING: C200

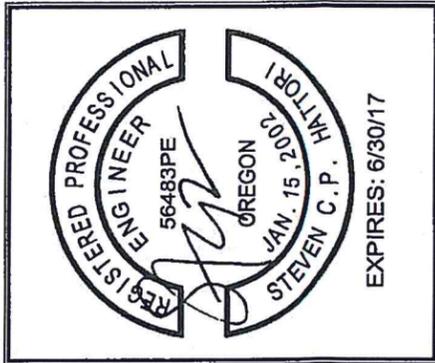
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GRADING CONSTRUCTION NOTES

- ① CONSTRUCT 16" STRAIGHT CONCRETE CURB, CONCRETE SLAB, RUBBERIZED MATS, AND PAVERS PER DETAIL 1/C500.
- ② CONSTRUCT CONCRETE SIDEWALK PER CITY OF CORVALLIS STANDARD DETAIL NO. 106/C501. SIDEWALK SHALL NOT EXCEED ADA STANDARDS FOR RUNNING SLOPE AND SIDE SLOPE.
- ③ CONSTRUCT LANDSCAPE AREA DRAIN PER DETAIL 1/C501.
- ④ CONSTRUCT UNDER DRAIN PER DETAIL 2/C500.
- ⑤ BACKFILL AGAINST NEW IMPROVEMENTS WITH APPROVED TOPSOIL TO PROVIDE SMOOTH TRANSITION TO EXISTING GRADE, 4H:1V MAXIMUM SLOPE.
- ⑥ CONSTRUCT CONCRETE BASE PER DETAIL 3/C502 FOR PLAY STRUCTURE, BY OTHERS.
- ⑦ CONSTRUCT 4" DIAMETER PVC, ASTM D3034, SDR 35 STORM DRAIN PIPE PER THE LOCALLY ADOPTED OREGON PLUMBING SPECIALTY CODE AND DETAIL 1/C502. MINIMUM PIPE SLOPE SHALL BE 0.004 FT/FT.
- ⑧ CONSTRUCT 4" DIAMETER PERFORATED PVC, ASTM D3034, SDR 35 STORM DRAIN PIPE PER THE LOCALLY ADOPTED OREGON PLUMBING SPECIALTY CODE AND DETAIL 1/C502. MINIMUM PIPE SLOPE SHALL BE 0.004 FT/FT.
- ⑨ CONSTRUCT PERMANENT SEEDING OVER DISTURBED AREAS. SEE DETAIL 1/C506 FOR SEEDING REQUIREMENTS.

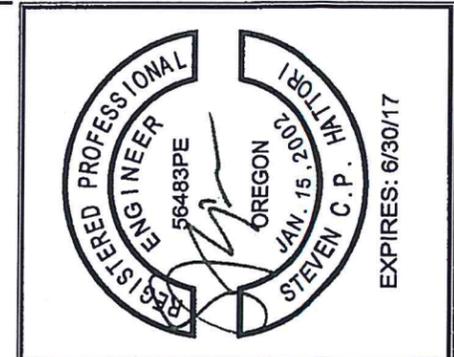
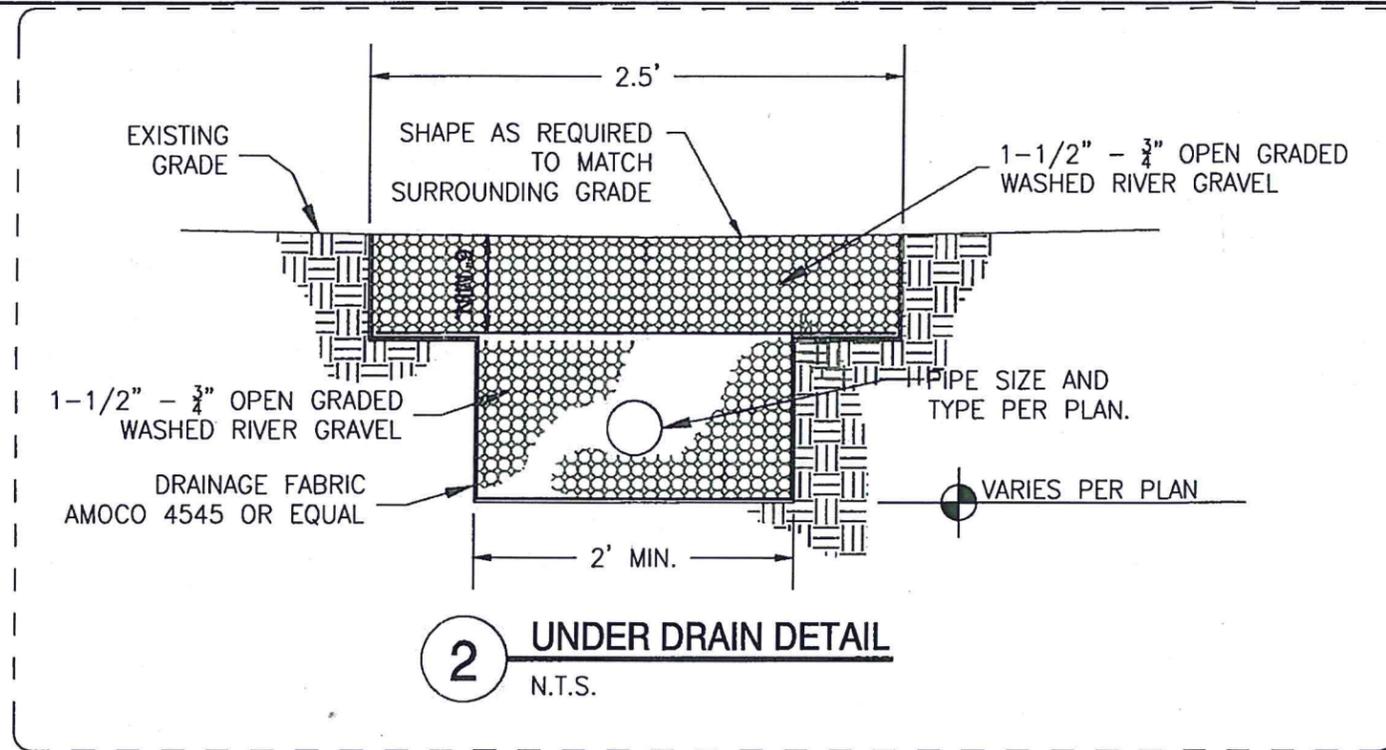


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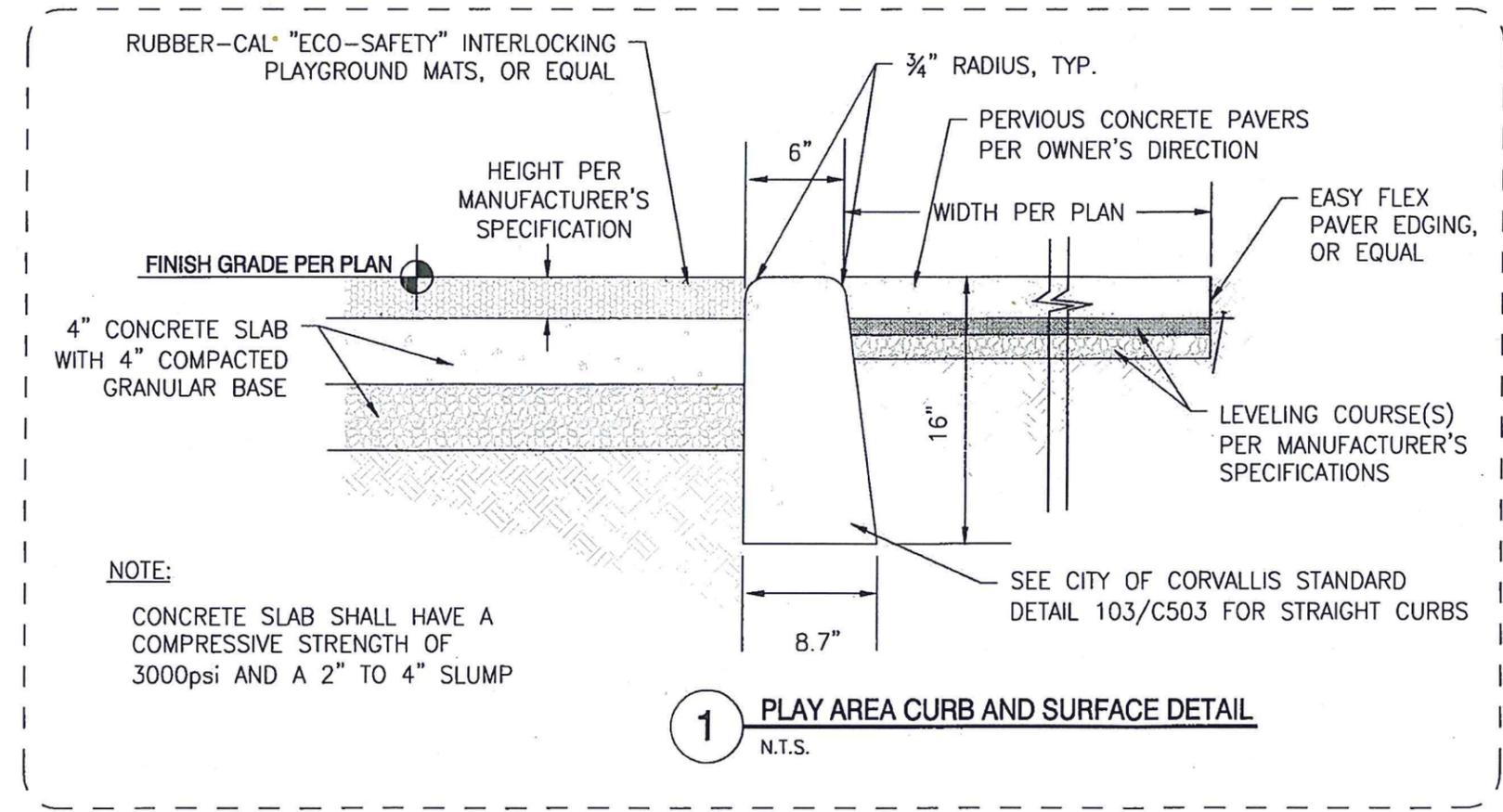
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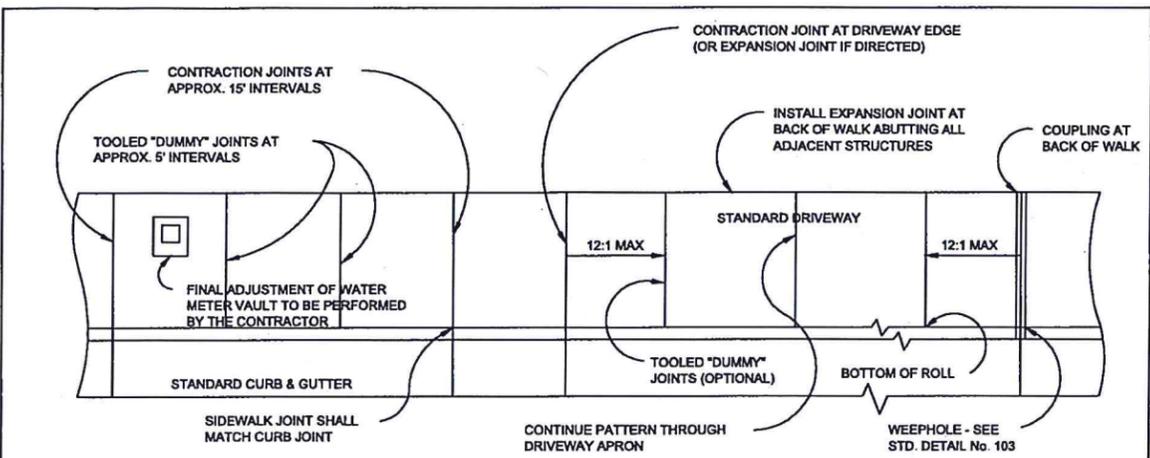


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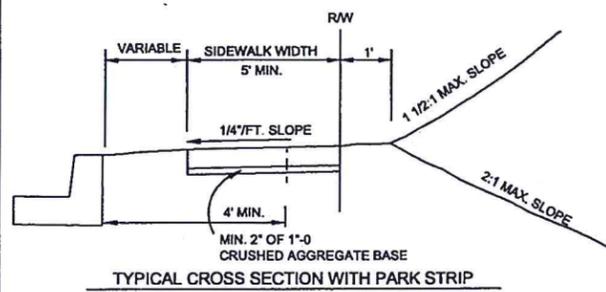
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SHEET TITLE: DETAILS
DRAWING: C500

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TYPICAL PLAN VIEW
APPLIES TO BOTH CURBLINE & PROPERTY LINE SIDEWALKS



NOTES:

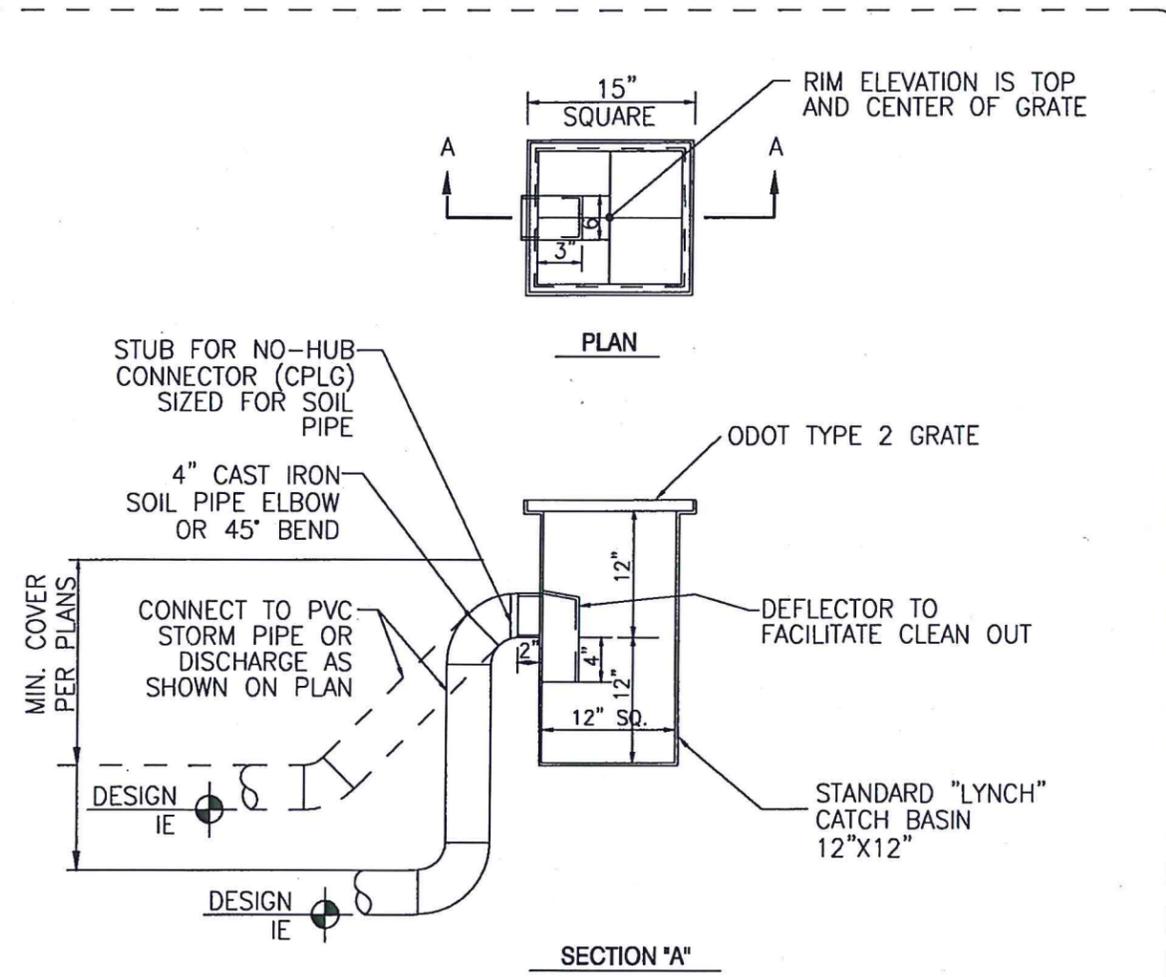
- SIDEWALKS SHALL BE LOCATED TO PROVIDE A 6-FOOT LANDSCAPE STRIP ON LOCAL AND LOCAL CONNECTOR STREETS, AND A 12-FOOT LANDSCAPE STRIP ON COLLECTOR AND ARTERIAL STREETS. WHERE INADEQUATE ROW EXISTS, A REDUCTION IN LANDSCAPE STRIP WIDTH MAY BE ALLOWED WITH PRIOR APPROVAL OF THE ENGINEER.
- STANDARD SIDEWALK CROSS SLOPE SHALL BE 1/4" PER FOOT. WHEN THE LOT IS BELOW THE TOP OF THE CURB AND SLOPES AWAY FROM THE CURB, A MINUS 1/4" PER FOOT SLOPE MAY BE REQUIRED, AS DIRECTED.
- CONCRETE DEPTH FOR STANDARD SIDEWALKS SHALL BE NOMINAL 4" MIN. SINGLE FAMILY RESIDENTIAL DRIVEWAY SECTIONS INCLUDING SIDEWALKS THROUGH DRIVEWAYS SHALL BE NOMINAL 6" MIN. ALL OTHER DRIVEWAY SECTIONS SHALL BE NOMINAL 8" MIN. ALL CONCRETE SHALL BE PLACED OVER 2" MIN. CRUSHED AGGREGATE BASE.
- CONTRACTION JOINTS SHALL BE INSTALLED AT APPROX. INTERVALS OF 15 FEET BY CUTTING A MIN. ONE THIRD OF THE DEPTH OF THE CONCRETE. "DUMMY" JOINTS SHALL BE INSTALLED AT APPROX. INTERVALS OF 5 FEET.
- "DUMMY" JOINTS MAY BE CUT AS STANDARD WEAKENED PLANE CONTRACTION JOINTS IF THE CONTRACTOR SO ELECTS.
- THE AREA BEHIND THE SIDEWALK IS TO BE BACK-FILLED WITH COMPACTED BACKFILL AS SHOWN ON THE PLAN AND AS DIRECTED. THE BACKFILL SHALL APPLY TO BOTH SIDES OF THE SIDEWALK ON A PROPERTY LINE SIDEWALK.

CITY OF CORVALLIS
ENGINEERING DIVISION

STANDARD SIDEWALK DETAIL

DATE: JUNE, 2008 SCALE: NONE STANDARD DETAIL No. 106

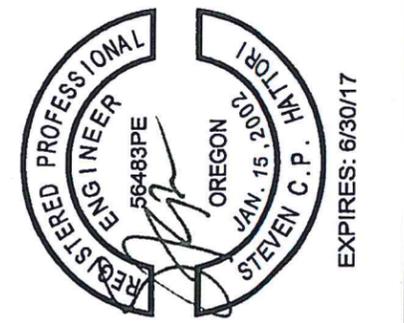
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NOTES:

- STANDARD DEPTH 24 INCHES.
- METAL THICKNESS 10 GA.
- INTERIOR AND EXTERIOR COATED WITH ASPHALT PAINT.
- CATCH BASIN SHALL BE AS MANUFACTURED BY LYNCH CO., INC., OR APPROVED EQUIVALENT.

1 **LANDSCAPE AREA DRAIN**
N.T.S.



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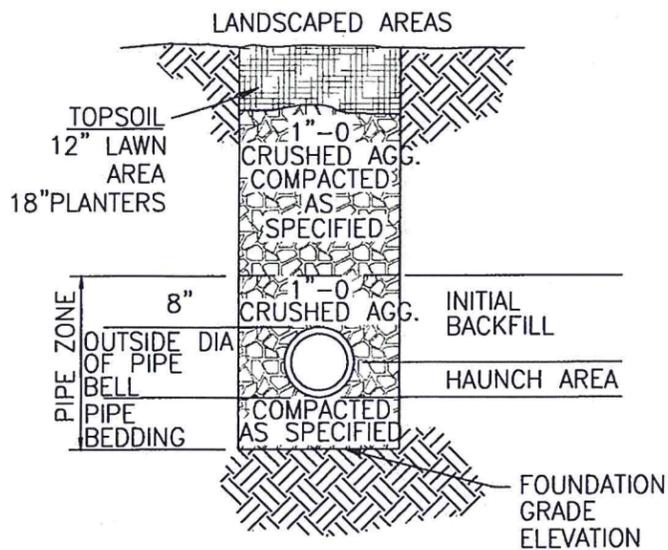
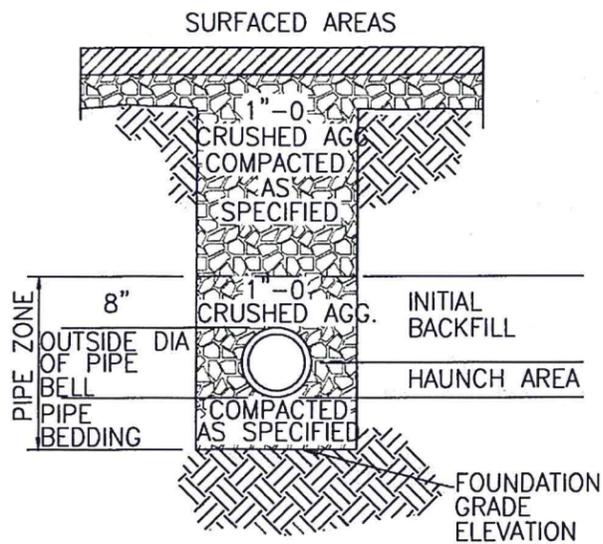
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DRAWING: C501

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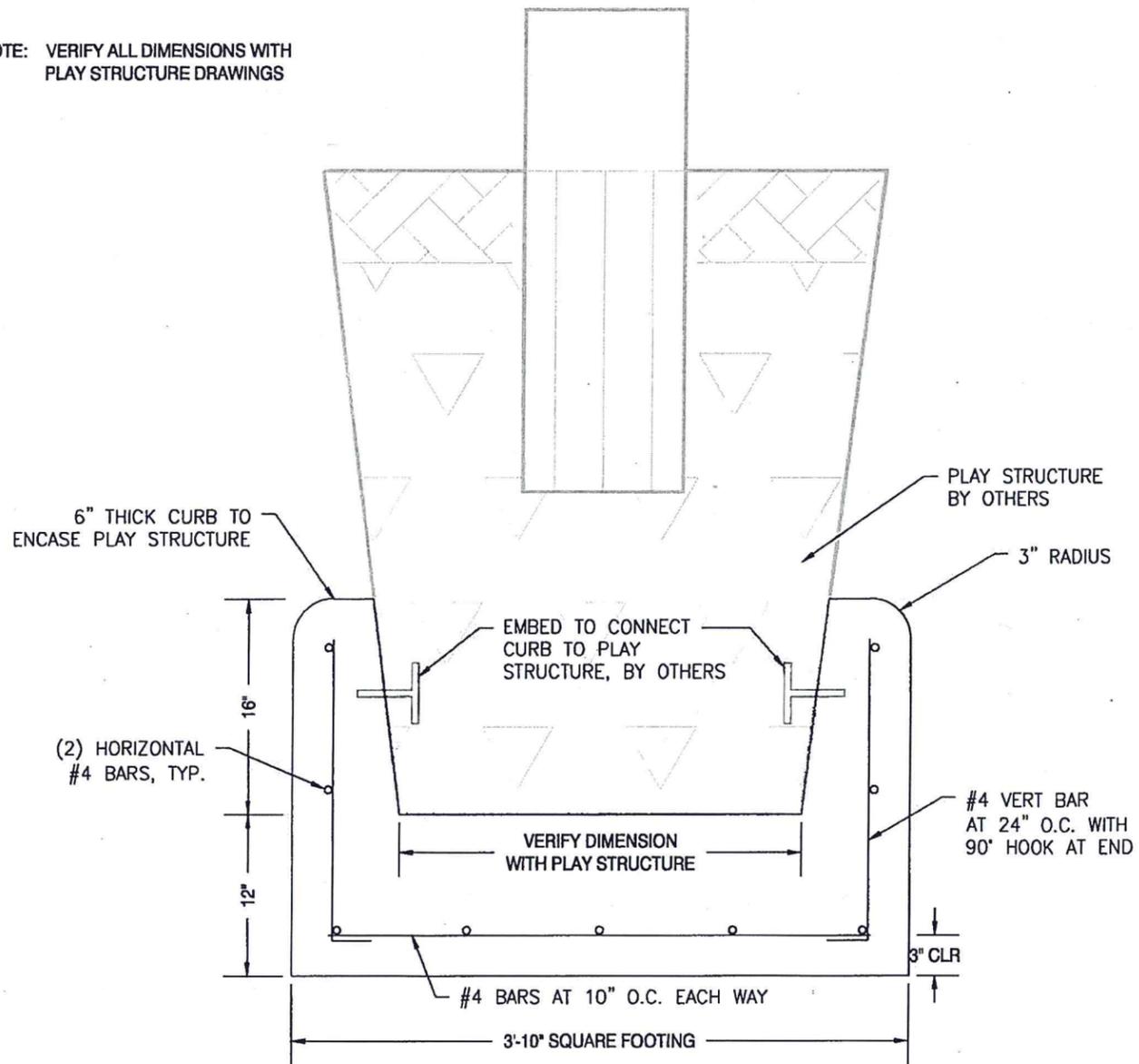
NOTES:

- 1) MINIMUM PIPE BEDDING SHALL BE AS FOLLOWS:
 4" FOR PIPE 12" IN DIAMETER OR LESS
 6" FOR PIPE 15" IN DIAMETER OR LESS
 8" FOR PIPE 42" IN DIAMETER OR LESS

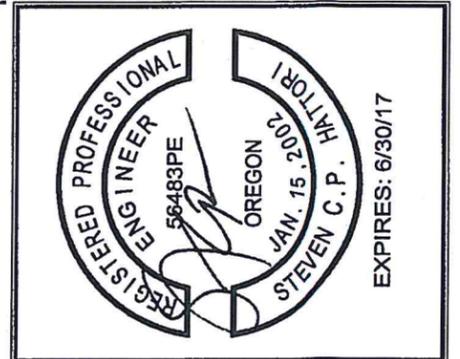
- 2) PROVIDE TRACER WIRE PER OPSC

1 TRENCH BACKFILL & PIPE ZONE DETAILS
 N.T.S.

NOTE: VERIFY ALL DIMENSIONS WITH PLAY STRUCTURE DRAWINGS



1 PLAY STRUCTURE FOOTING DETAIL
 1"=1'

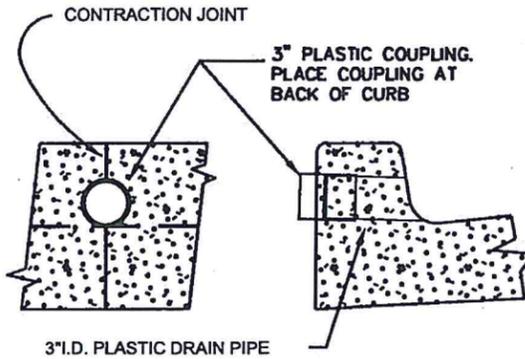


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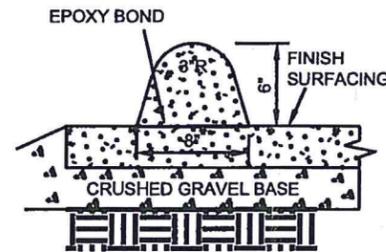
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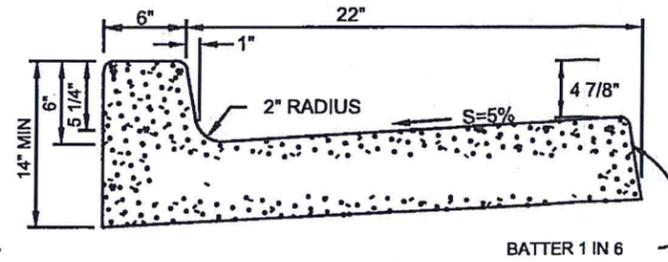
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 SHEET TITLE: DETAILS
 DRAWING: C502



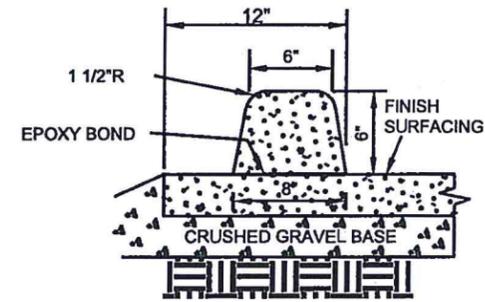
WEEP HOLE THROUGH CURB



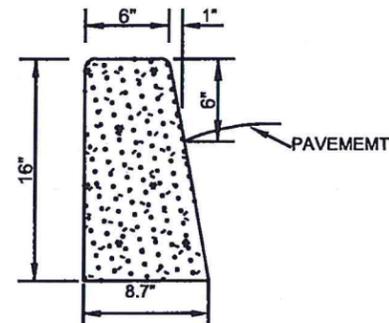
EXTRUDED BONDED CURB TYPE A



STANDARD CURB & GUTTER



EXTRUDED CURB TYPE B



TYPICAL STRAIGHT CURB

NOTES:

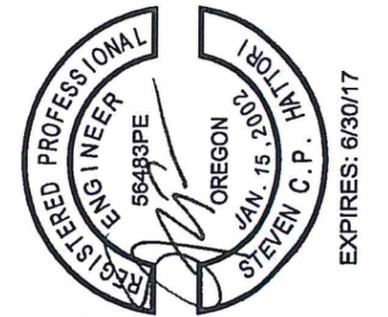
1. ALL RADII SHALL BE 3/4" EXCEPT AS OTHERWISE NOTED.
2. EXPANSION JOINTS SHALL BE PLACED AT ALL CONSTRUCTION JOINTS AS DIRECTED.
3. CONTRACTION JOINTS SHALL BE PLACED AT APPROX. 15' INTERVALS AND SHALL EXTEND A MIN. OF 50% THROUGH THE CURB OR CURB AND GUTTER.
4. THE ULTIMATE COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE AS SPECIFIED.
5. WEEP HOLES SHALL BE PLACED AT CONTRACTION JOINTS.
6. WEEP HOLES INSTALLED IN EXIST. CURB SHALL BE CORED ONLY, ON MIN. 12" CENTERS.
7. REFER TO STANDARD WHEELCHAIR RAMP DETAILS FOR INTERSECTION CURB RADII DETAILS.
8. THE USE OF EXTRUDED BONDED CURBS SHALL ONLY BE BY SPECIFIC APPROVAL OF THE ENGINEER.
9. EXTEND WEEPHOLES TO BACK OF WALK WHEN SIDEWALKS ARE CONSTRUCTED AND INSTALL COUPLINGS AT BACK OF WALK.
10. FOR CONCRETE STREETS, MATCH STREET AND CURB JOINTS.

CITY OF CORVALLIS
ENGINEERING DIVISION

**CURB CONSTRUCTION
STANDARD DETAIL**

DATE: JANUARY, 2003 SCALE: NONE STANDARD DETAIL No. 103

APPROVED:



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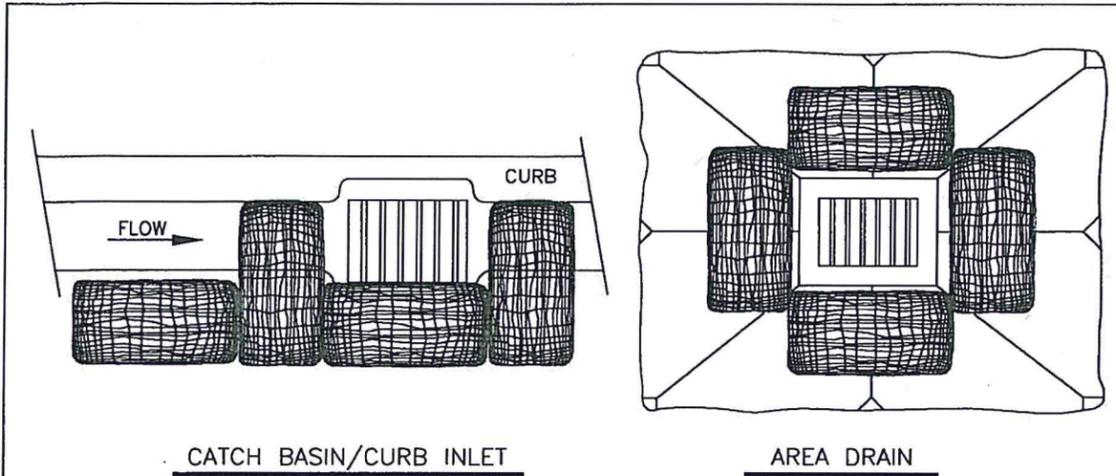
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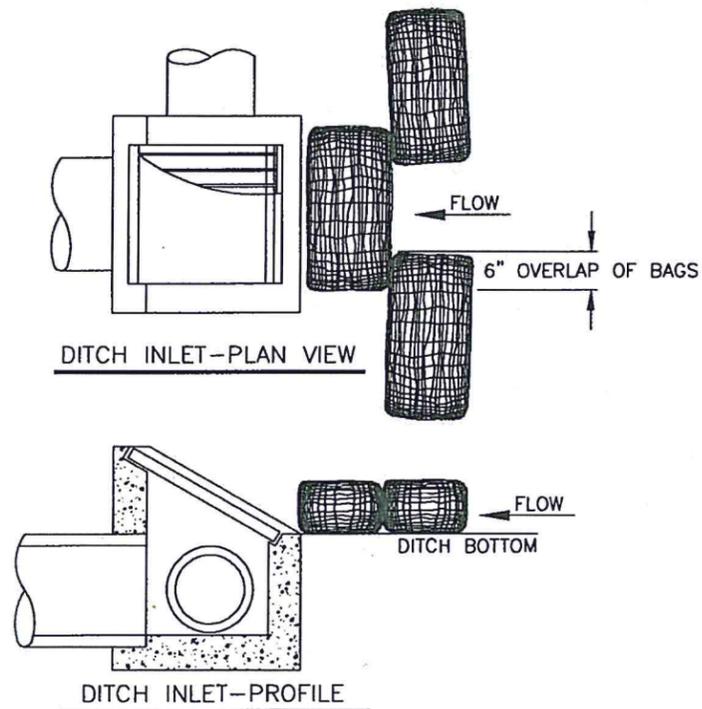
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CATCH BASIN/CURB INLET

AREA DRAIN



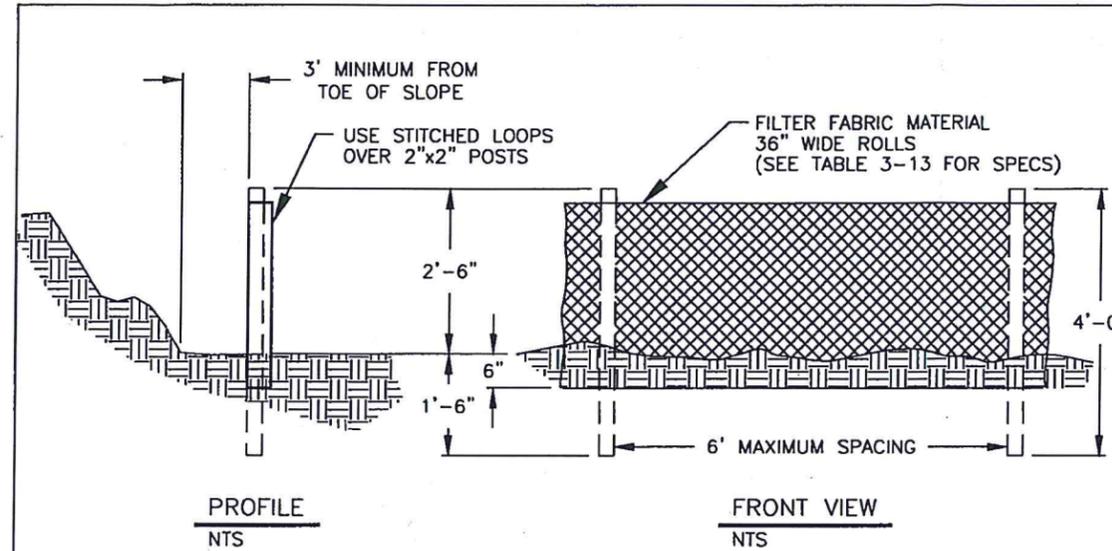
DITCH INLET-PLAN VIEW

DITCH INLET-PROFILE

- NOTES:
- ADDITIONAL MEASURES MUST BE CONSIDERED DEPENDING ON SOIL TYPES.
 - BIOFILTER BAGS SHOULD BE STAKED WHERE APPLICABLE USING (2) 1"x2" WOODEN STAKES OR APPROVED EQUAL PER BAG.

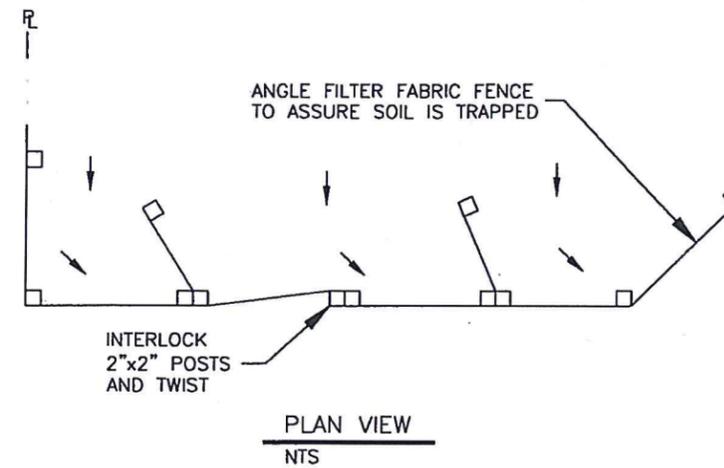
INLET PROTECTION
TYPE 4 - BIOFILTER BAGS

Detail Drawing 3.3.7d



PROFILE
NTS

FRONT VIEW
NTS



PLAN VIEW
NTS

TABLE 3-13 WOVEN POLYPROPYLENE SEDIMENT FENCE FABRIC SPECIFICATIONS

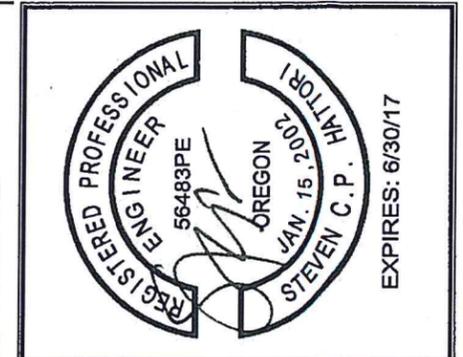
| PROPERTY | TEST PROCEDURE | MINIMUM FABRIC VALUE |
|-----------------------------|----------------|------------------------|
| Grab Tensile Strength | ASTM D-4632 | 180 lbs. |
| Grab Elongation | ASTM D-4632 | 15% |
| Trapezoid Tear | ASTM D-4533 | 70 lbs. |
| Mullen Burst | ASTM D-3786 | 300 psi |
| Puncture | ASTM D-4833 | 80 lbs |
| Permitivity | ASTM D-4491 | 0.07 sec ⁻¹ |
| Permeability | ASTM D-4491 | 0.005 cm/sec |
| Apparent Opening Size (AOS) | ASTM D-4751 | 50 U.S. Sieve |
| UV Resistance (500 hrs) | ASTM D-4355 | 90% |

TABLE 3-12 BARRIER SPACING FOR GENERAL APPLICATION

| % SLOPE | SLOPE | MAX SPACING ON SLOPE |
|---------|---------------|----------------------|
| <10% | <10:1 | 300 ft |
| 10-15% | 10:1 to 7.5:1 | 150 ft |
| 15-20% | 7.5:1 to 5:1 | 100 ft |
| 20-30% | 5:1 to 3.5:1 | 50 ft |
| 30-50% | 3.5:1 to 2:1 | 25 ft |

SEDIMENT FENCE

Detail Drawing 3.3.1

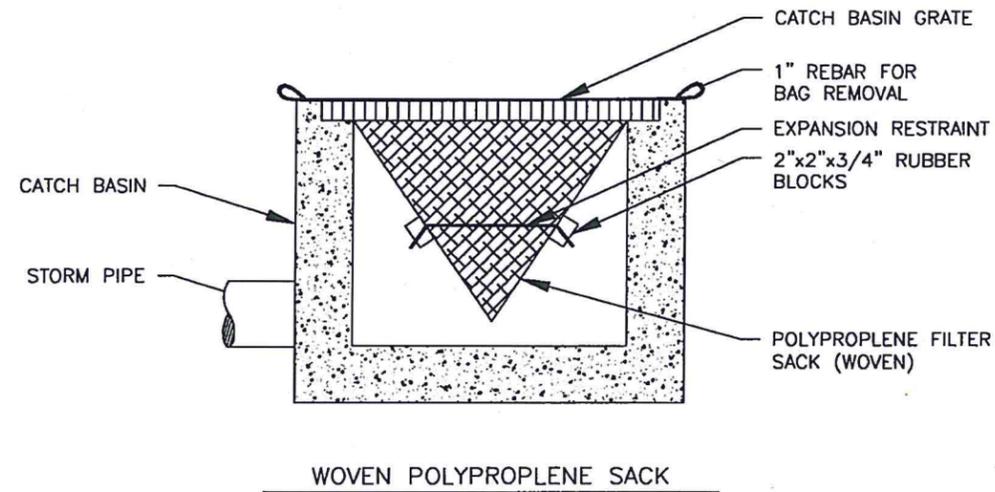


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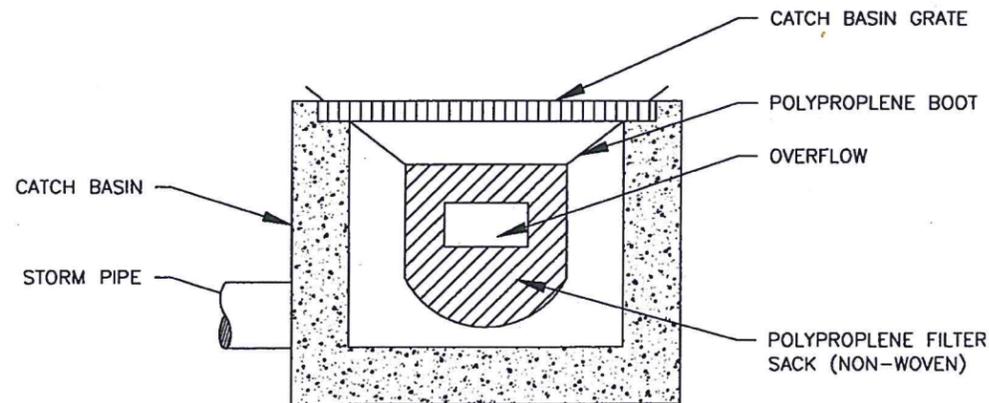
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SHEET TITLE: EROSION CONTROL DETAILS
DRAWING: C504



WOVEN POLYPROPYLENE SACK

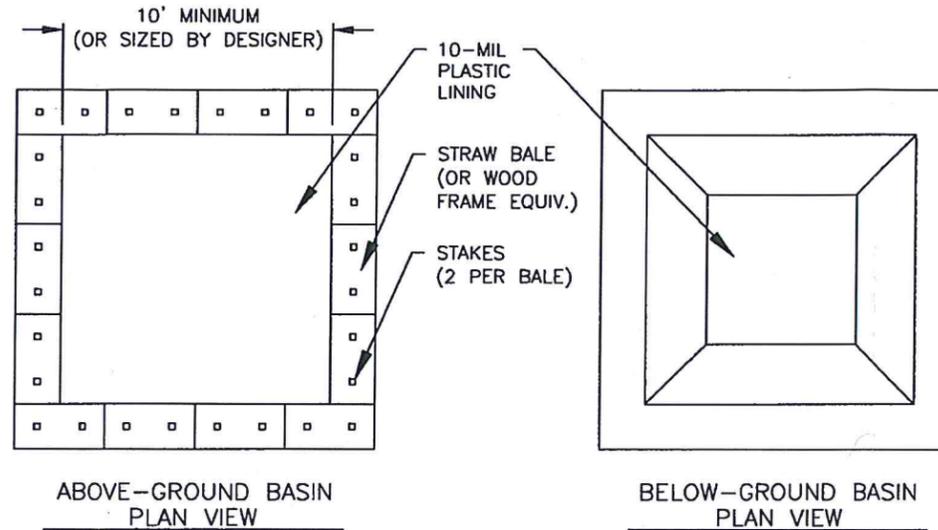


NON-WOVEN POLYPROPYLENE SACK

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.

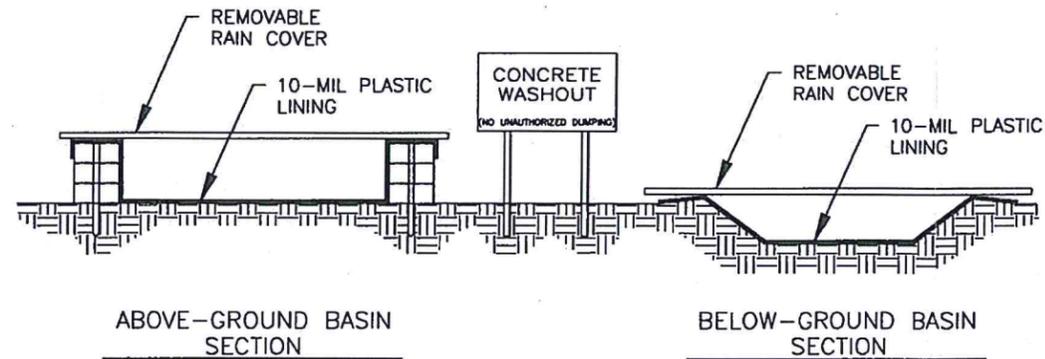
INLET PROTECTION
TYPE 5 - CATCH BASIN INSERT

Detail Drawing 3.3.7e



ABOVE-GROUND BASIN
PLAN VIEW

BELOW-GROUND BASIN
PLAN VIEW



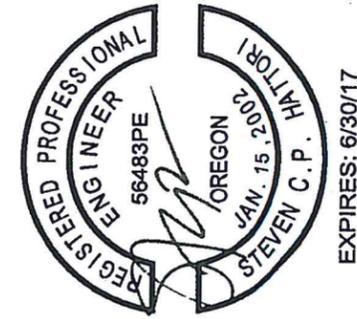
ABOVE-GROUND BASIN
SECTION

BELOW-GROUND BASIN
SECTION

NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. "CONCRETE WASHOUT" SIGN TO BE LOCATED ADJACENT TO WASHOUT FACILITY.
3. REMOVABLE RAIN COVER REQUIRED DURING WET WEATHER SEASON.

CONCRETE WASHOUT

Detail Drawing 4.2.10



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SHEET TITLE: EROSION CONTROL DETAILS
DRAWING: C505

Seed Purity

All seed applied should be those specified herein and should be measured by Pure Live Seed (PLS) weight. Pure live seed refers to the portion of a seed lot that is live seed of the desired kind.

The seed lots should be tested and meet the minimum seed standards. Lots showing Oregon prohibited weeds are not approved. Seed must meet minimum viability standards. Oregon State University Extension Service keeps a listing of seed varieties that area certified in the OSU Extension Certified Seed Handbook. The seed variety must be approved by the OSU Seed Certification Board to be eligible for certification or meet the standards for certification.

- Temporary grass cover measures must be fully established by October 1st or other ground cover measures will have to be implemented. In order to establish an 80% healthy stand of grass, all seeding applications must be completed prior to September 1st
- Apply seeding when no further disturbances are planned.
- Seed should be applied immediately after seedbed preparation while the soil is loose and moist.
- Apply seed before applying straw mulch.
- Dry, loose, weed-free straw used as much shall be applied at 4,000 lb./acre. Anchor straw by working in by hand or with equipment (rollers, cleat tracks, etc.)
- Permanent or temporary irrigation shall be supplied especially in abnormally hot or dry weather or on adverse sites. Water application rates should be controlled to provide adequate moisture without causing runoff.

Site Preparation

- Bring the seedbed area to final grade, remove all rocks and debris, and smooth surface undulations larger than 2 inches.
- Divert concentrated flows away from the seeded area.
- For optimum seeding conditions preserve topsoil and stockpile material until final grades are established. Spread topsoil over new grades.
- Roughen the soil by harrowing, tracking, grooving or furrowing.
- Apply amendments as needed to adjust pH to 6.0-7.5. Incorporate these amendments into the soil.
- The seedbed should be firm but not compact. The top 4-6 inches of soil should be loose, moist and free of large clods and stones.
- If the seedbed has been idle long enough for the soil to become compact, the top soil should be harrowed with a disk, spring tooth drag, spike tooth drag, or other equipment designed to condition the soil for seeding.
- Harrowing, tracking or furrowing should be done horizontally across the face of the slope, so ridges are along the slope contour.

Seeding

- Seed to soil contact is the key to good germination.
- Apply seed at the rates specified using calibrated seed spreaders, cyclone seeders, mechanical drills, or hydro seeder so the seed is applied uniformly on the site.
- Broadcast seed should be incorporated into the soil by raking or chain dragging, and then lightly compacted to provide good seed-soil contact.
- Apply mulch over the seeded areas.
- To prevent seed from being washed away, confirm installation of all required surface water control measures.
- Double the rate of seed application when mulch and seed is applied in a single application.
- Recommended erosion control grass seed mixes are as follows. Similar mixes designed to achieve erosion control may be substituted with approval

1. Dwarf Grass mix (low height, low maintenance)
 Dwarf Perennial Ryegrass, 80% by weight
 Creeping Red Fescue, 20% by weight
 Application rate: 100 pounds minimum per acre
2. Standard Height Grass Mix
 Annual Ryegrass, 40% by weight
 Turf type Fescue, 60% by weight
 Application rate: 100 pounds minimum per acre

Fertilizer

- Slow-release fertilizers are more efficient and have fewer environmental impacts.
- Areas being seeded may require soil tests to determine the exact type and quantity of fertilizer needed to prevent the over-application of fertilizer. Use nonphosphorous fertilizer on disturbed areas within 50 feet of water bodies and wetlands.
- The use of stockpiled topsoil or compost reduces the need for fertilizer and improves the overall soil quality.
- Application rate per manufacturer's recommendation.

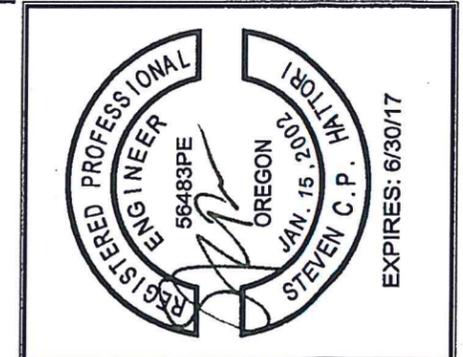
Mulch

- The straw mulch shall not be moldy, caked, decayed or of otherwise low quality.
- Can be applied on top of the seed or applied with the seed during hydro seeding.
- The application rate of seed per acre should be increased if seed and mulch are applied in a single application.

| Mulch Material | Quality Standards | Application Rate Per Acre | Depth of Material | Considerations |
|----------------|--|---------------------------|------------------------------|---|
| Straw | Air dried, free from unwanted seeds and coarse materials | 3 tons or 120 bales | 4 inches min. uniform spread | Use where the mulching effects is to be maintained < 3 months. When chopped straw is applied use a tackifier. |

Inspection & Maintenance

- Inspect once per week in active sites, once every two weeks on in-active sites, and within 24 hours following a 0.5-inch rain event.
- Newly seeded areas need to be inspected frequently to ensure the grass is growing.
- If the seeded area is damaged due to runoff. Re-seed and mulch damaged areas.
- Spot seeding can be done on small areas to fill in bare spots where grass did not grow properly.
- If spot seeding is ineffective, use an alternate method, such as sod or matting.
- Re-seed and protect with mulch any areas affected by erosion. If the erosion is caused by concentrated runoff, fix the runoff problem and then re-seed and mat the area.



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PROJECT: NIGEL ROSE MEMORIAL PLAYGROUND
 PROJECT LOCATION: CORVALLIS, OR
 CLIENT: TRISH WEBER

JOB NO. 15403
 DRAWN BY: DEVCO
 SHEET TITLE: EROSION CONTROL DETAILS
 DRAWING: C506