INDEX

SHEET:	TITLE:
2	GENERAL NOTES
3	STORMWATER HARVESTING BASIN - ARTERIAL, COLLECTOR AND RESIDENTIAL STREETS WITH SIDEWALK AT BACK OF CURB
4	STORMWATER HARVESTING BASIN - ARTERIAL AND COLLECTOR STREETS WITH SIDEWALK AT BACK OF BASIN
5	STORMWATER HARVESTING BASIN - RESIDENTIAL STREETS WITH SIDEWALK AT BACK OF BASIN
6-7	EDDY BASIN - ARTERIAL, COLLECTOR, AND RESIDENTIAL STREETS WITH SIDEWALK AT BACK OF CURB
8	FLOW THROUGH BASIN WITH EXISTING SIDEWALK AT BACK OF CURB
9	FLOW THROUGH BASIN WITH EXISTING SIDEWALK AT BACK OF CURB - ARTERIALS AND COLLECTORS WITH LARGE R.O.W.
10-11	EDDY BASIN - ARTERIALS AND COLLECTORS WITH EXISTING SIDEWALK AT BACK OF BASIN
12	FLOW THROUGH BASIN - ARTERIALS AND COLLECTORS WITH EXISTING SIDEWALK AT BACK OF BASIN
13-14	EDDY BASIN - RESIDENTIAL STREETS WITH EXISTING SIDEWALK AT BACK OF BASIN
15	FLOW THROUGH BASIN - RESIDENTIAL STREETS WITH EXISTING SIDEWALK AT BACK OF BASIN
16	CURB CUT
17	SEDIMENT TRAP - CONCRETE
18	SEDIMENT TRAP - ROCK
19	VEGETATED SWALE
20	CHECK DAM
21	ROCK DAM
22	PREFORMED SCOUR HOLE
23	SHEET FLOW SPREADER
24	TREE PLANTING SHELF
25	TREE PLANTING IN BASIN
26	INFILTRATION TEST

ADDITIONAL GSI DETAILS SEE:

TRAFFIC CIRCLE DETAIL - COT DETAIL 110
CHICANE DETAIL - COT DETAIL 227
CURB CORE, CURB CUT, AND
CURB SLICE WATER HARVESTING DETAIL - COT DETAIL 221

FOR ADDITIONAL HANDRAIL REQUIREMENTS SEE:

HANDRAIL PLACEMENT DETAIL - COT DETAIL 112

ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	GREEN STORMWATER INFRASTRUCTURE DETAILS	CIUDAD DE FUNDADA 1775 TUCSON	228 M-2026-005
REVISED:				SHEET 1 OF 26
-				

GENERAL NOTES:

1. GREEN STORMWATER INFRASTRUCTURE (GSI) WATER HARVESTING NOT ALLOWED IN FLOOD PRONE AREAS AND 100-YEAR EROSION HAZARD SETBACK AREAS WITHOUT DTM ENGINEERING STORMWATER REVIEW AND WRITTEN APPROVAL FROM THE CITY ENGINEER.

2. UTILITY CLEARANCE DOCUMENTATION SHALL BE OBTAINED PRIOR TO GRADING OR EXCAVATION.

3. MINIMUM DISTANCES (VERTICAL AND HORIZONTAL) NEEDED FOR ALL UTILITIES. REFER TO COT PUBLIC UTILITY ADMINISTRATIVE MANUAL AND COT DRAINAGE MANUAL FOR UTILITIES SEPARATION AND PROHIBITIONS.

4. ELECTRICAL CONDUIT SHALL BE RELOCATED OUTSIDE OF WATER PRONE GSI FEATURES.

5. INFILTRATION TESTING PER CITY OF TUCSON ENGINEERING METHOD REQUIRED FOR NRCS SOIL GROUPS C AND D TO SHOW DRAIN DOWN COMPLIANCE OF 24 HOURS. SEE SHEET 26.

6. NINE (9) INCH MAX. PONDING DEPTH FOR ALL GSI OUTSIDE THE PAVED ROADWAY WITHIN THE RIGHT OF WAY. STEP DOWN INTO FINISHED BASIN FROM ADJACENT GRADES MUST NOT EXCEED TWENTY-FOUR (24) INCHES.

7. NINE (9) INCH MAX. PONDING DEPTH FOR ANY GSI BASIN.

8. SIGHT VISIBILITY DIAGRAM SHALL BE DRAWN TO SHOW THAT ANY PROPOSED VEGETATION AND GRADING DOES NOT EXCEED REQUIRED HEIGHT LIMITS. VEGETATION SHALL NOT FALL BETWEEN 30-IN AND 72-IN AT TIME OF PLANTING, DURING GROWTH, AND AT FULL MATURITY. TREES WITH LOWEST BRANCHES ABOVE 72-IN AT TIME OF PLANTING ALLOWED. MUST MAINTAIN MINIMUM VERTICAL AND HORIZONTAL SEPARATION FROM UNDERGROUND UTILITIES. CONTACT RELEVANT UTILITY PROVIDER OR DTM FOR SEPARATION.

9. GSI IS NOT INTENDED TO PROVIDE FLOOD PROTECTION.

10. ANY BASIN WITH TREES CLOSER THAN SIX (6) FEET TO BACK OF CURB WILL REQUIRE AN 18-IN ROOT BARRIER TO BE INSTALLED AT BACK OF CURB TO PREVENT ROOTS FROM UNDERMINING THE ROADWAY.

11. GSI FEATURES ON ROADS WITHOUT CURB WILL REQUIRE INDIVIDUAL DTM ENGINEERING, STORMWATER MANAGEMENT, AND TRAFFIC ENGINEERING REVIEW AND WRITTEN APPROVAL.

12. CURB WITH HISTORIC MARKINGS OR STAMPS SHALL NOT BE REMOVED FOR GSI.

13. SIDEWALK WITH HISTORIC MARKINGS OR STAMPS DISTURBED BY GSI CONSTRUCTION MUST BE SAVED. HISTORIC MARKINGS AND STAMPS SHALL BE PLACED IN NEW SIDEWALK.

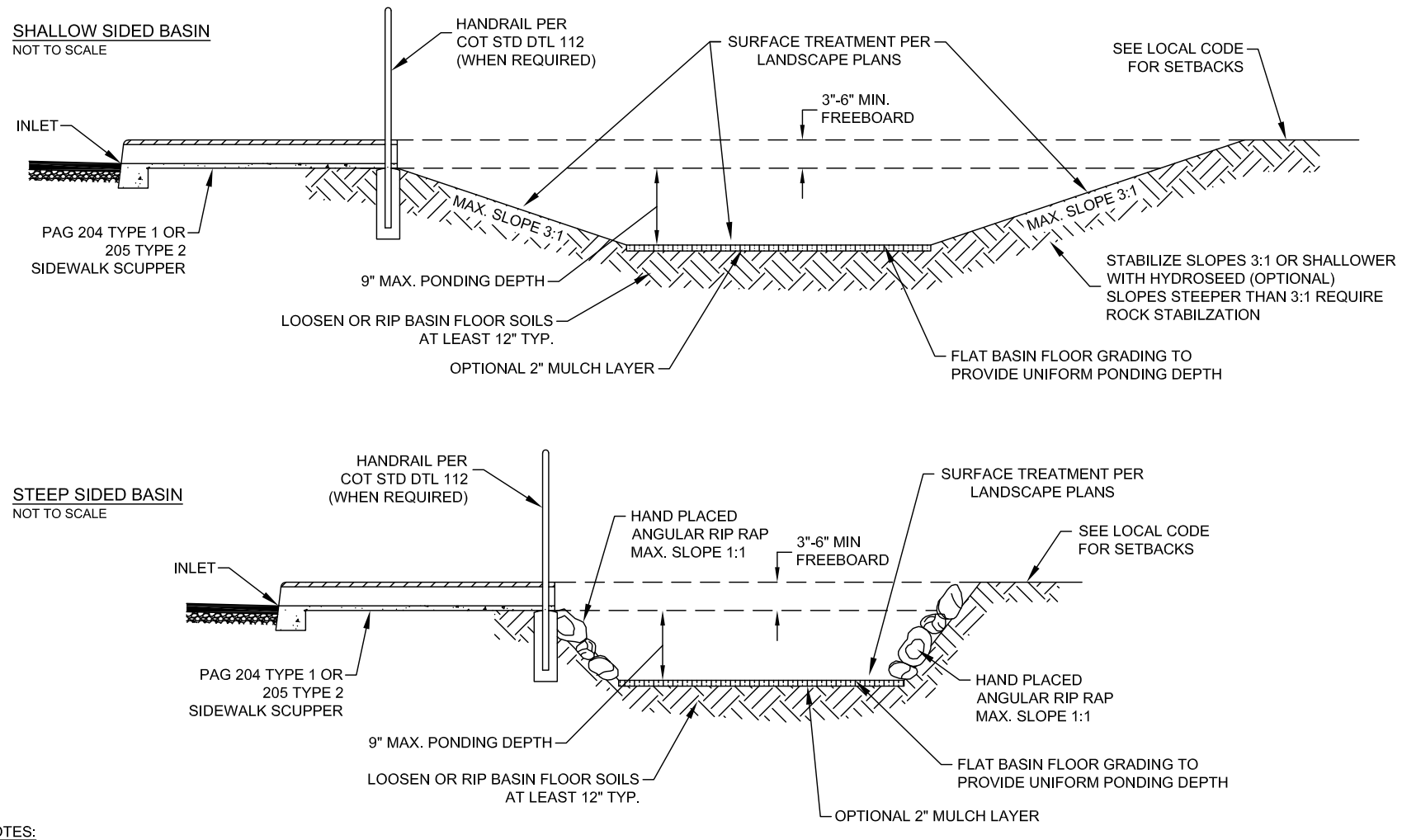
14. FOR TRAFFIC CIRCLES SEE COT DETAIL 110.

15. FOR CURB CUT, CORE, AND SLICE WATER HARVESTING DETAIL SEE COT DETAIL 221.

16. FOR CHICANE DETAIL SEE COT DETAIL 227.

17. THIS DETAIL CANNOT BE ALTERED OR CHANGED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER.

ARTERIAL, COLLECTOR, AND RESIDENTIAL STREETS WITH SIDEWALK AT BACK OF CURB



NOTES:

1. BASIN DEPTH SHALL BE 9-IN MAX. INFILTRATION TEST NOT REQUIRED FOR PONDING DEPTH LESS THAN 9-IN. PONDED WATER MUST INFILTRATE WITHIN 24 HOURS. INFILTRATION TEST (SEE SHEET 26) IS REQUIRED WHEN FINAL GRADE IS REACHED TO CONFIRM MAX INFILTRATION TIME AND ASSESS IF A PERCHED CALICHE LAYER IS PRESENT. INFILTRATION TEST TO BE DONE PRIOR TO CONSTRUCTION.
2. REFER TO COT PUBLIC UTILITY ADMINISTRATIVE MANUAL FOR UTILITIES SEPARATION & PROHIBITIONS.
3. SEED OR PLANT FIBROUS ROOTED, INUNDATION TOLERANT SPECIES TO IMPROVE INFILTRATION AT BOTTOM OF BASIN. TREES, SUCCULENTS, AND PLANTS NOT TOLERANT OF INUNDATION SHALL NOT BE PLACED IN BASIN BOTTOM.
4. UTILIZE ORGANIC WOOD CHIP MULCH WHERE FLOWS ARE NOT LIKELY TO CARRY IT AWAY.
5. PROTECT BASIN BOTTOM AND SLOPES FROM COMPACTION AFTER SOILS ARE LOOSENED.
6. IRRIGATION TRENCHING TO BE COMPLETED AT REQUIRED DEPTH BEFORE FINAL GRADING.
7. IF ABOVE ELECTRICAL CONDUIT SEE GENERAL NOTE 4.
8. GSI FEATURES ON STREETS WITHOUT CURB SEE GENERAL NOTE 11.
9. THIS DETAIL SHALL NOT BE ALTERED OR MODIFIED WITHOUT THE CITY ENGINEER'S WRITTEN APPROVAL.

DETAIL NO. 228 M-2026-005 SHEET 3 OF 26

STANDARD DETAIL

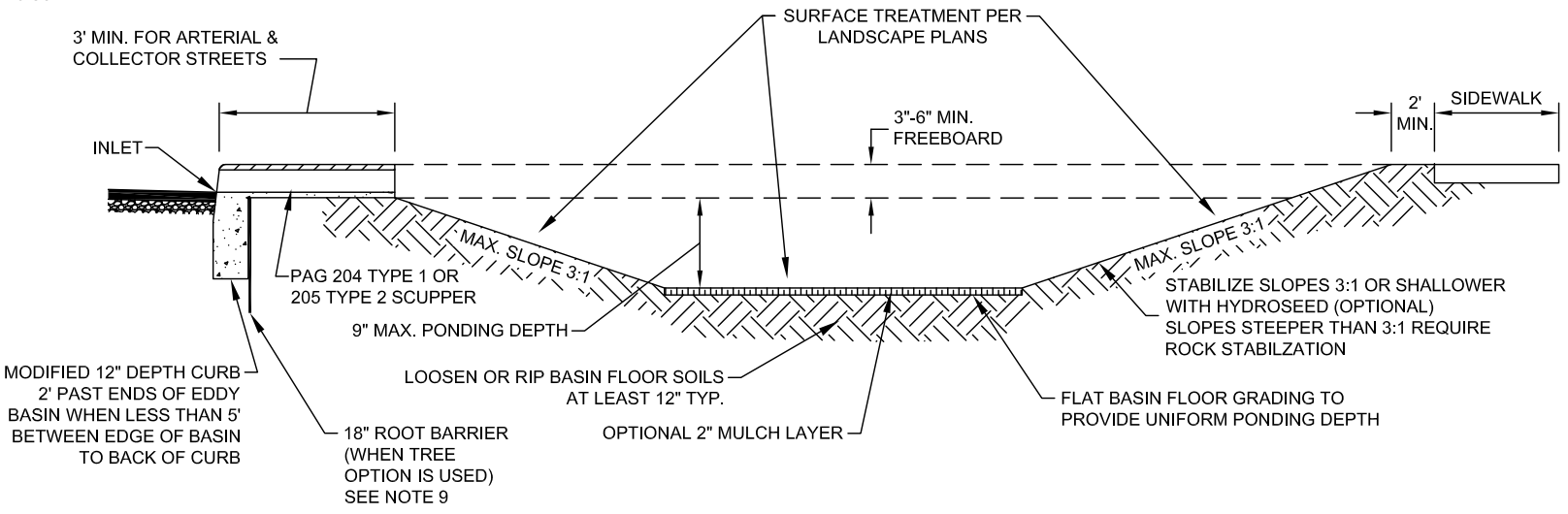
STORMWATER HARVESTING BASIN

ISSUED: 11/26

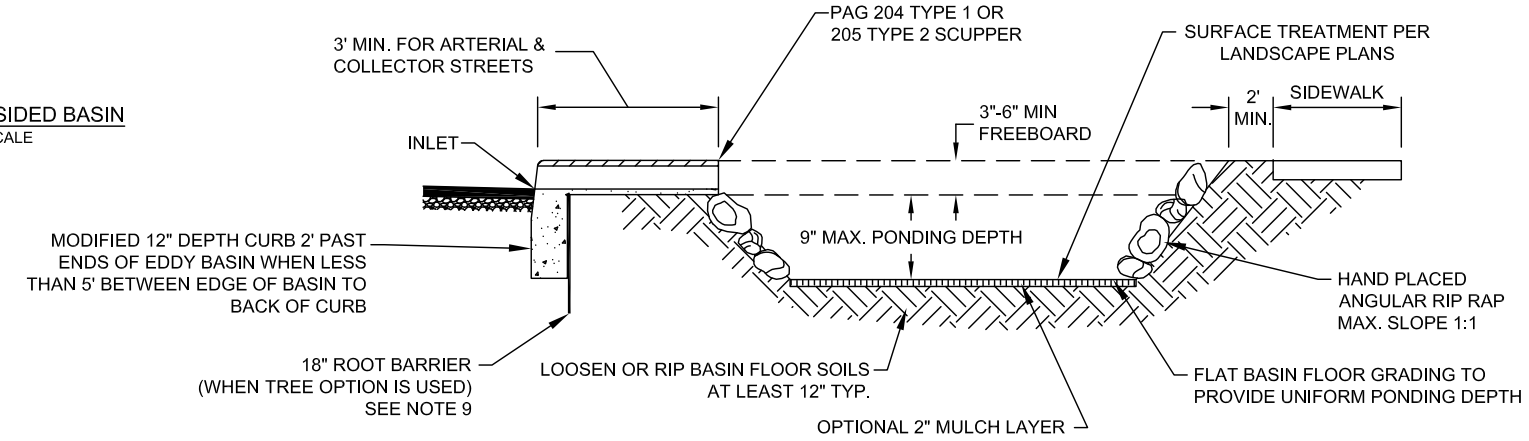
REVISED: –

ARTERIAL AND COLLECTOR STREETS WITH SIDEWALK AT BACK OF BASIN

SHALLOW SIDED BASIN
NOT TO SCALE



STEEP SIDED BASIN
NOT TO SCALE



NOTES:

1. BASIN DEPTH SHALL BE 9" MAX. PONDED WATER MUST INFILTRATE WITHIN 24 HOURS. INFILTRATION TEST (SEE SHEET 26) IS REQUIRED WHEN FINAL GRADE IS REACHED TO CONFIRM MAX INFILTRATION TIME AND ASSESS IF A PERCHED CALICHE LAYER IS PRESENT. INFILTRATION TEST TO BE DONE PRIOR TO CONSTRUCTION.
2. REFER TO COT PUBLIC UTILITY ADMINISTRATIVE MANUAL FOR UTILITIES SEPARATION & PROHIBITIONS.
3. SEED OR PLANT FIBROUS ROOTED, INUNDATION TOLERANT SPECIES TO IMPROVE INFILTRATION AT BOTTOM OF BASIN. TREES, SUCCULENTS, AND PLANTS NOT TOLERANT OF INUNDATION SHALL NOT BE PLACED IN BASIN BOTTOM.
4. UTILIZE ORGANIC WOOD CHIP MULCH WHERE FLOWS ARE NOT LIKELY TO CARRY IT AWAY.
5. PROTECT BASIN BOTTOM AND SLOPES FROM COMPACTION AFTER SOILS ARE LOOSENED.
6. IRRIGATION TRENCHING TO BE COMPLETED AT REQUIRED DEPTH BEFORE FINAL GRADING.
7. IF ABOVE ELECTRICAL CONDUIT SEE GENERAL NOTE 4.
8. GSI FEATURES ON STREETS WITHOUT CURB SEE GENERAL NOTE 11.
9. ANY BASIN WITH TREES CLOSER THAN SIX FEET TO BACK OF CURB WILL REQUIRE AN 18 INCH ROOT BARRIER TO BE INSTALLED AT BACK OF CURB TO PREVENT ROOTS FROM UNDERMINING THE ROADWAY.
10. THIS DETAIL SHALL NOT BE ALTERED OR MODIFIED WITHOUT THE CITY ENGINEER'S WRITTEN APPROVAL.

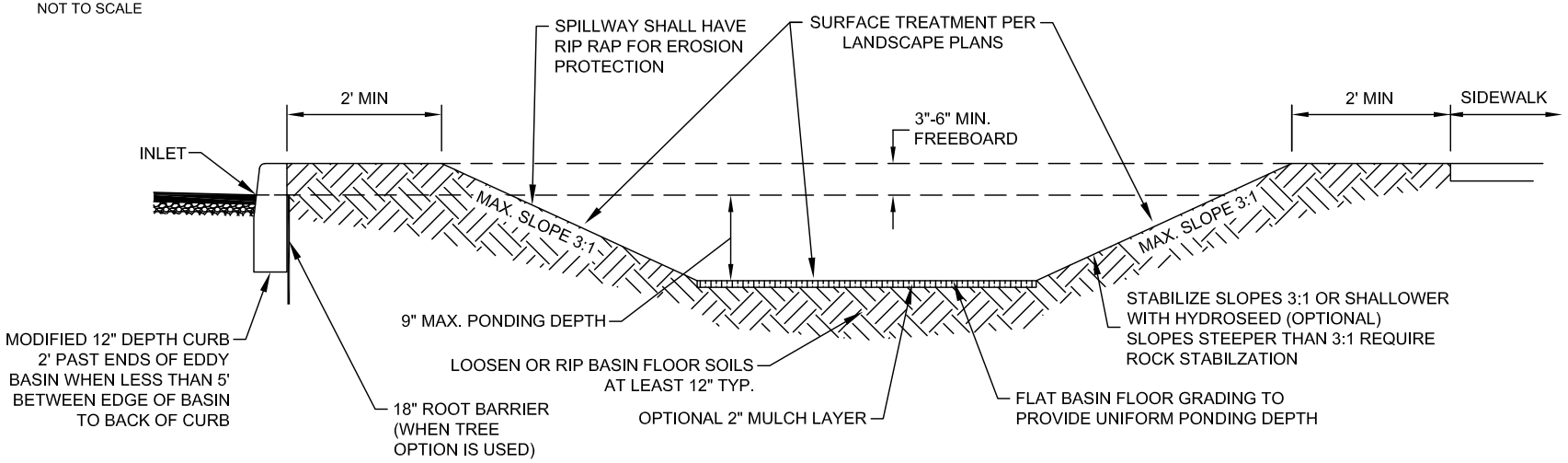
DETAIL NO. 228 M-2026-005
SHEET 4 OF 26

STANDARD DETAIL
STORMWATER HARVESTING BASIN

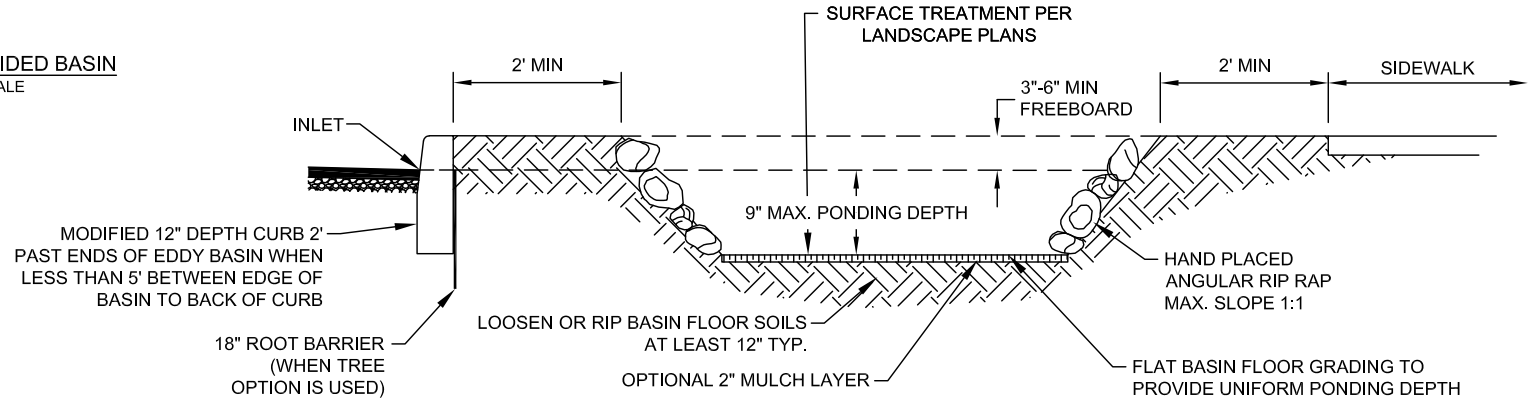
ISSUED: 11/26
REVISED: –

RESIDENTIAL STREETS WITH SIDEWALK AT BACK OF BASIN

SHALLOW SIDED BASIN
NOT TO SCALE



STEEP SIDED BASIN
NOT TO SCALE



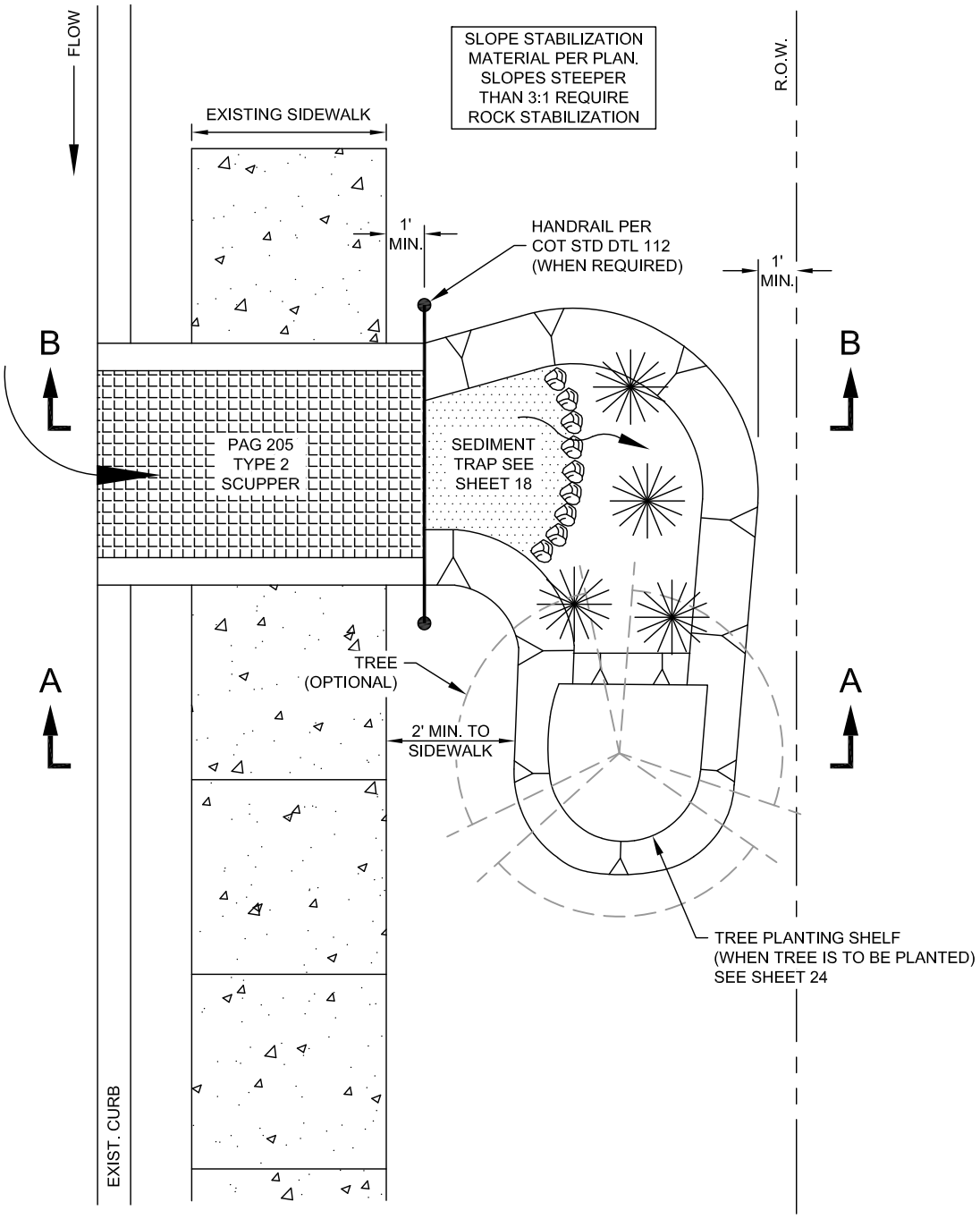
NOTES:
1. BASIN DEPTH SHALL BE 9" MAX. PONDED WATER MUST INFILTRATE WITHIN 24 HOURS. INFILTRATION TEST (SEE SHEET 26) IS REQUIRED WHEN FINAL GRADE IS REACHED TO CONFIRM MAX INFILTRATION TIME AND ASSESS IF A PERCHED CALICHE LAYER IS PRESENT. INFILTRATION TEST TO BE DONE PRIOR TO CONSTRUCTION.
2. REFER TO COT PUBLIC UTILITY ADMINISTRATIVE MANUAL FOR UTILITIES SEPARATION & PROHIBITIONS.
3. SEED OR PLANT FIBROUS ROOTED, INUNDATION TOLERANT SPECIES TO IMPROVE INFILTRATION AT BOTTOM OF BASIN. TREES, SUCCULENTS, AND PLANTS NOT TOLERANT OF INUNDATION SHALL NOT BE PLACED IN BASIN BOTTOM.
4. UTILIZE ORGANIC WOOD CHIP MULCH WHERE FLOWS ARE NOT LIKELY TO CARRY IT AWAY.
5. PROTECT BASIN BOTTOM AND SLOPES FROM COMPACTION AFTER SOILS ARE LOOSENED.
6. IRRIGATION TRENCHING TO BE COMPLETED AT REQUIRED DEPTH BEFORE FINAL GRADING.
7. IF ABOVE ELECTRICAL CONDUIT SEE GENERAL NOTE 4.
8. GSI FEATURES ON STREETS WITHOUT CURB SEE GENERAL NOTE 11.
9. ANY BASIN WITH TREES CLOSER THAN SIX FEET TO BACK OF CURB WILL REQUIRE AN 18 INCH ROOT BARRIER TO BE INSTALLED AT BACK OF CURB TO PREVENT ROOTS FROM UNDERMINING THE ROADWAY.
10. THIS DETAIL SHALL NOT BE ALTERED OR MODIFIED WITHOUT THE CITY ENGINEER'S WRITTEN APPROVAL.

DETAIL NO. 228 M-2026-005
SHEET 5 OF 26

STANDARD DETAIL
STORMWATER HARVESTING BASIN

ISSUED: 11/26
REVISED: –

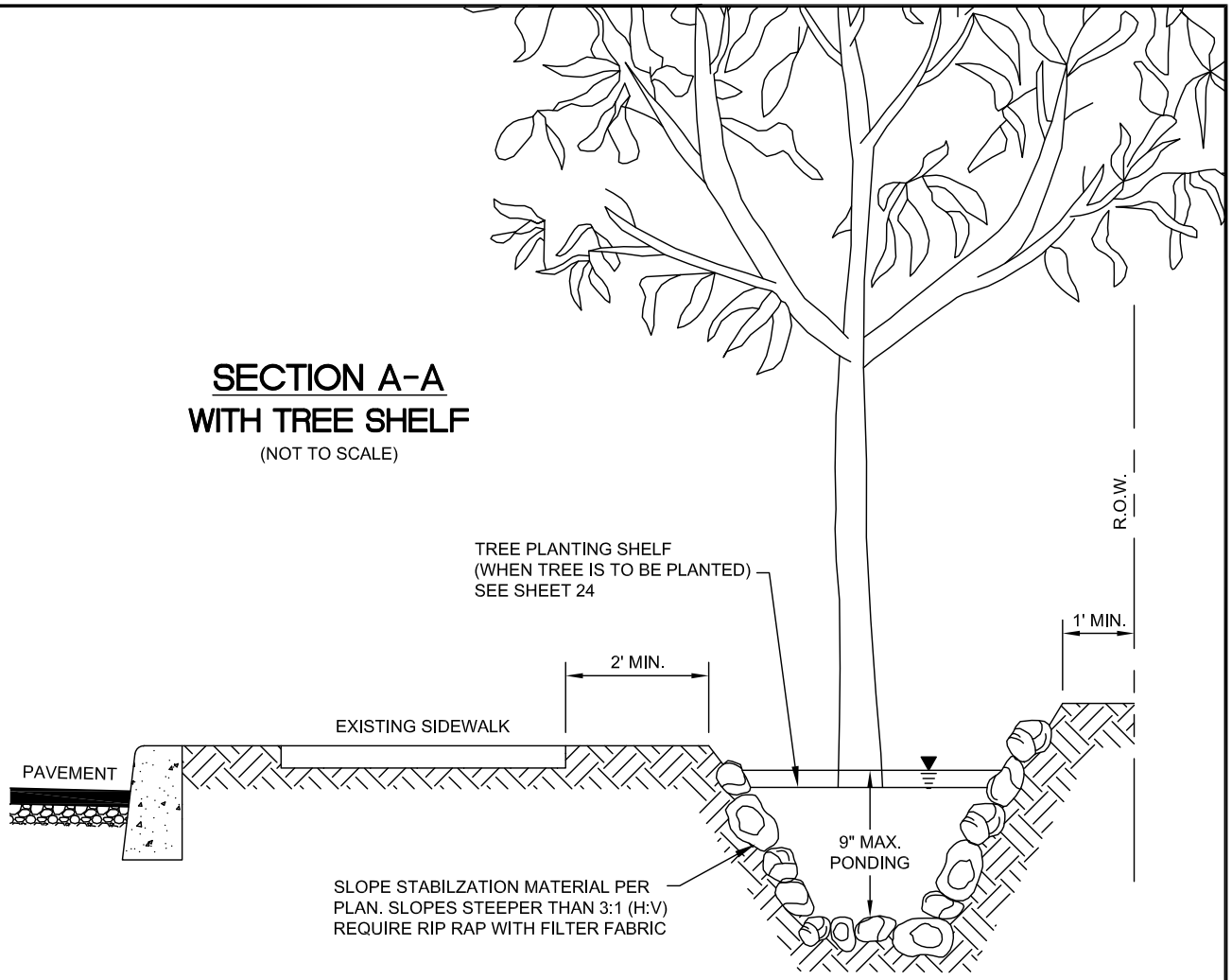
EDDY BASIN DETAIL WITH EXISTING SIDEWALK AT BACK OF CURB



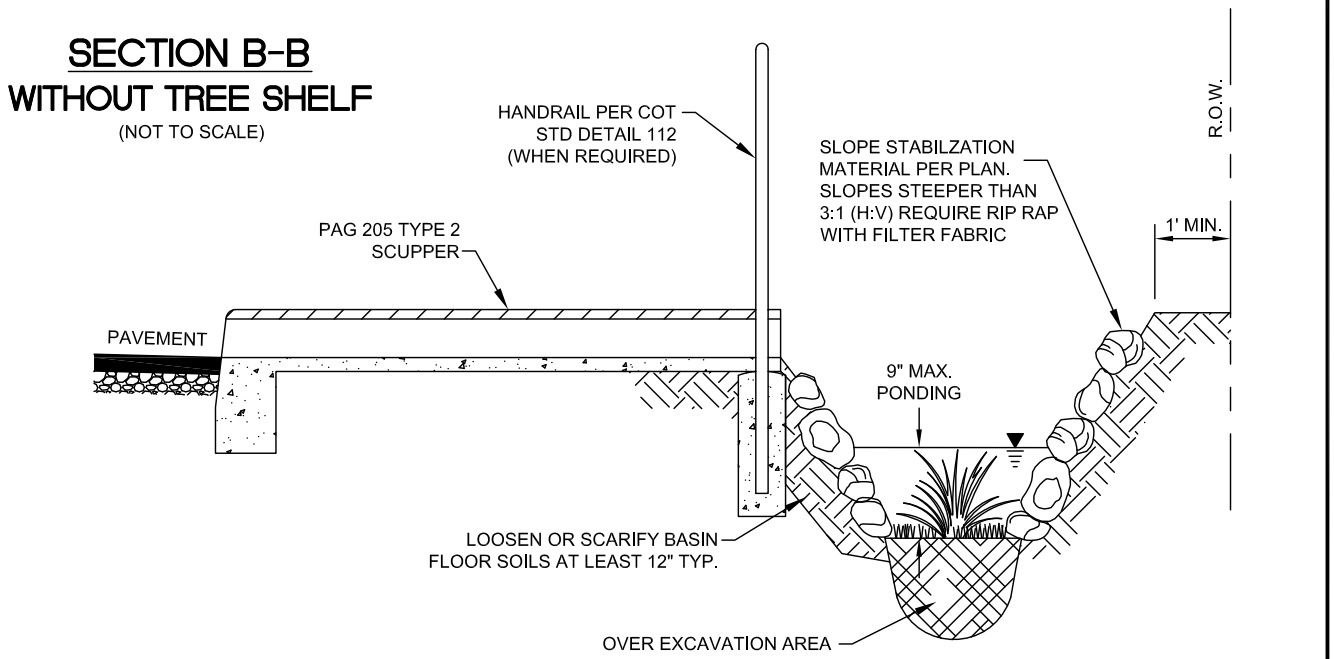
NOTES:
1. EDDY BASIN CANNOT BE USED WHERE HISTORIC CURB MARKINGS OR STAMPS EXIST AS HISTORIC CURB CANNOT BE REMOVED.
2. DTM STORMWATER REVIEW AND CITY ENGINEER WRITTEN PERMISSION IS REQUIRED FOR PROPOSED WATER HARVESTING IN REGULATORY FLOOD AREAS OR FLOOD PRONE AREAS.
3. BASIN SHALL BE CLEARED BY UTILITIES PRIOR TO GRADING OR EXCAVATION.
4. ALL TREES NEAR INTERSECTIONS WILL NEED SIGHT VISIBILITY TRIANGLE STUDY.
5. SEE SEDIMENT TRAP DETAIL SHEET 18.
6. LOCATE INLET UPSTREAM RELATIVE TO BASIN COLLECTION AREA.
7. THIS DETAIL CANNOT BE ALTERED OR CHANGED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER.

ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	EDDY BASIN WITH EXISTING SIDEWALK	CIUDAD DE FUNDADA 1775 TUCSON	228 M-2026-005
REVISED:				SHEET 6 OF 26
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SECTION A-A
WITH TREE SHELF
(NOT TO SCALE)

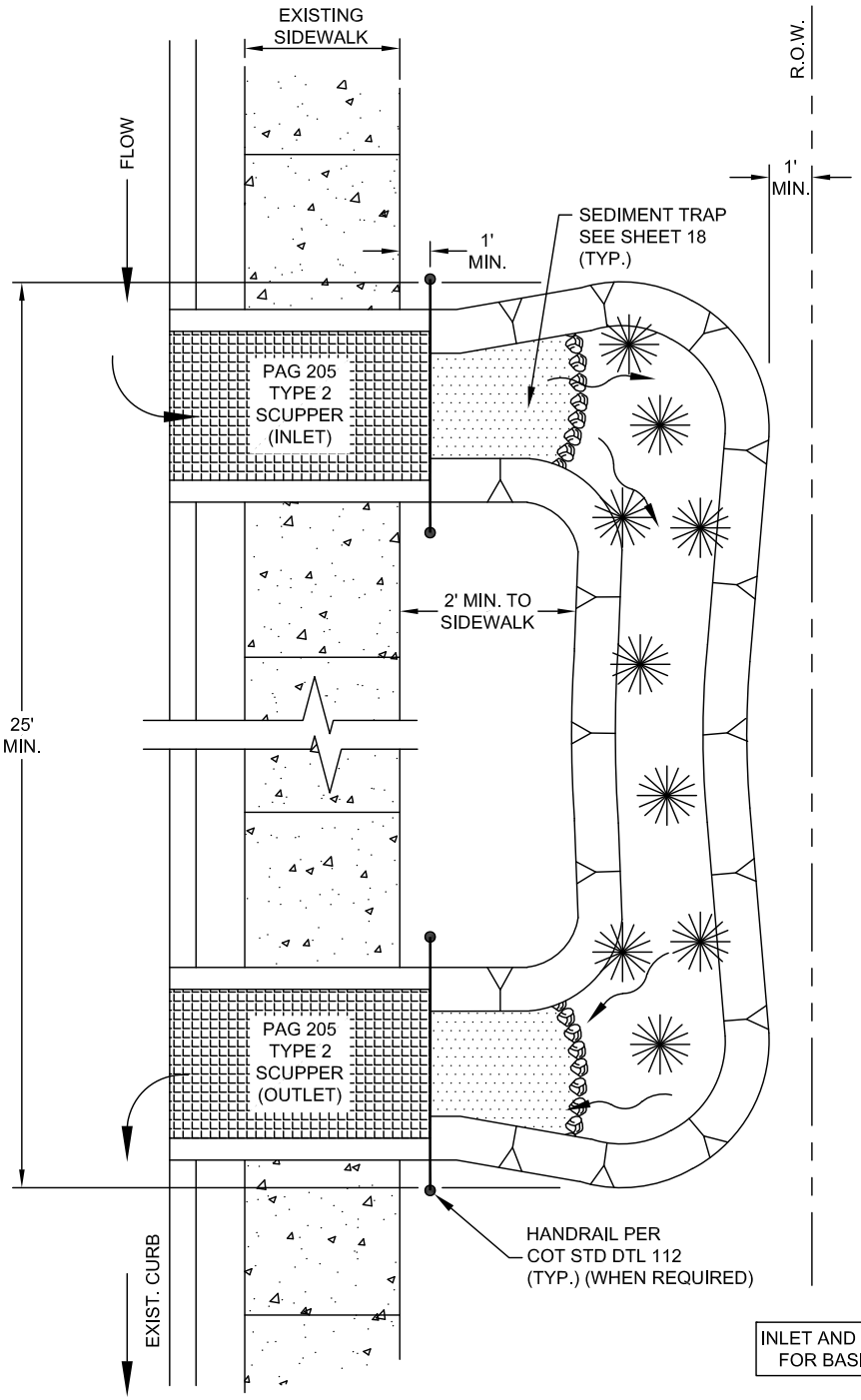


SECTION B-B
WITHOUT TREE SHELF
(NOT TO SCALE)



ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	EDDY BASIN WITH EXISTING SIDEWALK (CONT.)	CIUDAD DE TUCSON	228 M-2026-005
REVISED:				SHEET 7 OF 26
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SLOPE STABILIZATION MATERIAL PER PLAN. SLOPES STEEPER THAN 3:1 REQUIRE ROCK STABILIZATION

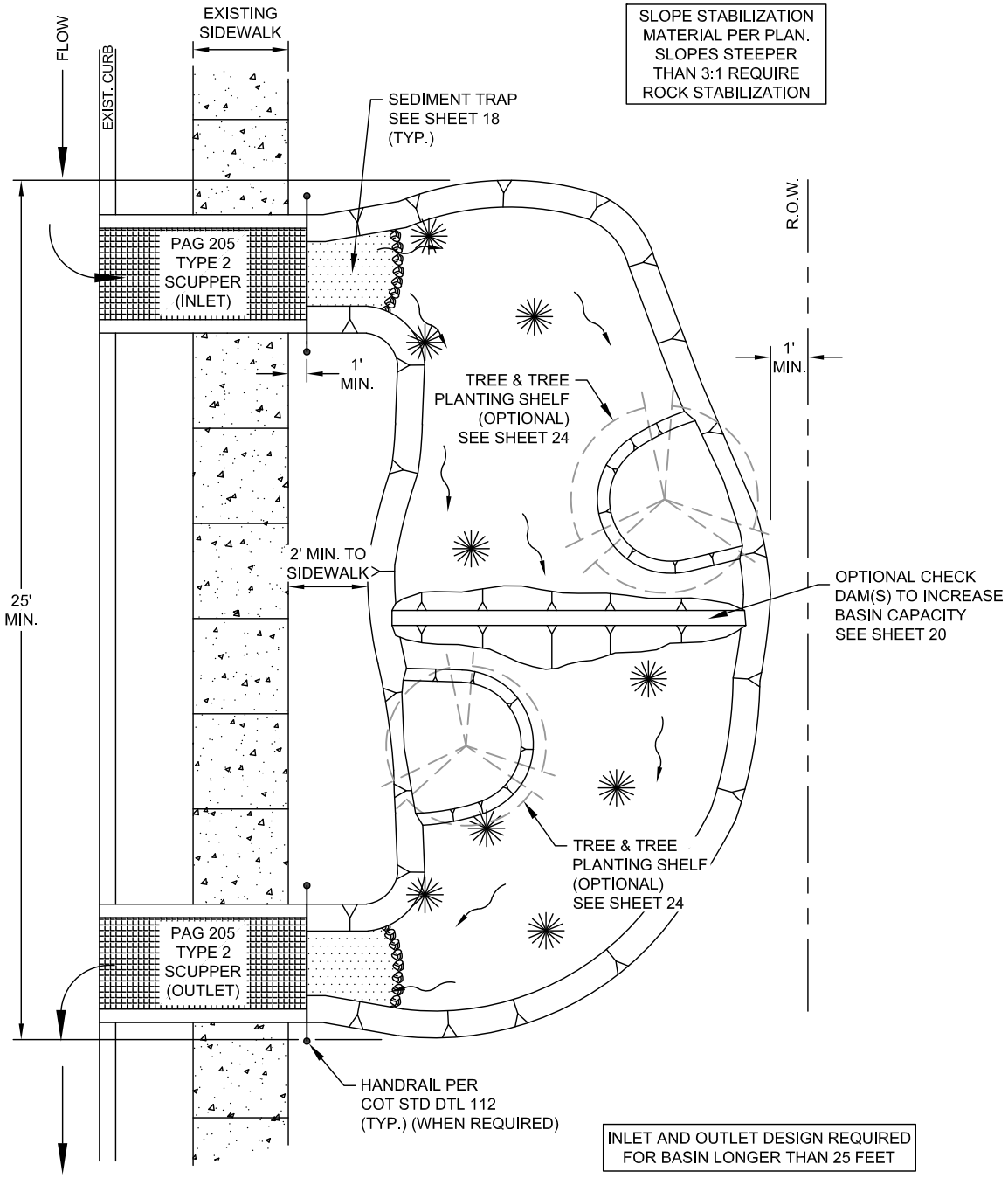


INLET AND OUTLET DESIGN REQUIRED FOR BASIN LONGER THAN 25 FEET

NOTES:
1. FLOW THROUGH BASIN CANNOT BE USED WHERE HISTORIC CURB MARKINGS OR STAMPS EXIST AS HISTORIC CURB CANNOT BE REMOVED.
2. FLOW THROUGH BASIN DESIGN REQUIRED FOR BASINS LONGER THAN 25 FEET.
3. DTM STORMWATER REVIEW AND CITY ENGINEER WRITTEN PERMISSION IS REQUIRED FOR PROPOSED WATER HARVESTING IN REGULATORY FLOOD AREAS OR FLOOD PRONE AREAS.
4. BASIN SHALL BE CLEARED BY UTILITIES PRIOR TO GRADING OR EXCAVATION.
5. ALL TREES NEAR INTERSECTIONS WILL NEED SIGHT VISIBILITY TRIANGLE STUDY.
6. SEE SEDIMENT TRAP DETAIL SHEET 18.
7. LOCATE INLET UPSTREAM RELATIVE TO BASIN COLLECTION AREA.
8. THIS DETAIL CANNOT BE ALTERED OR CHANGED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER.

ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	FLOW THROUGH BASIN WITH EXISTING SIDEWALK	CIUDAD DE FUNDADA 1775 TUCSON	228 M-2026-005
REVISED:				SHEET 8 OF 26
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FLOW THROUGH BASIN DETAIL WITH EXISTING SIDEWALK AT BACK OF CURB FOR ARTERIALS AND COLLECTORS WITH LARGE R.O.W.

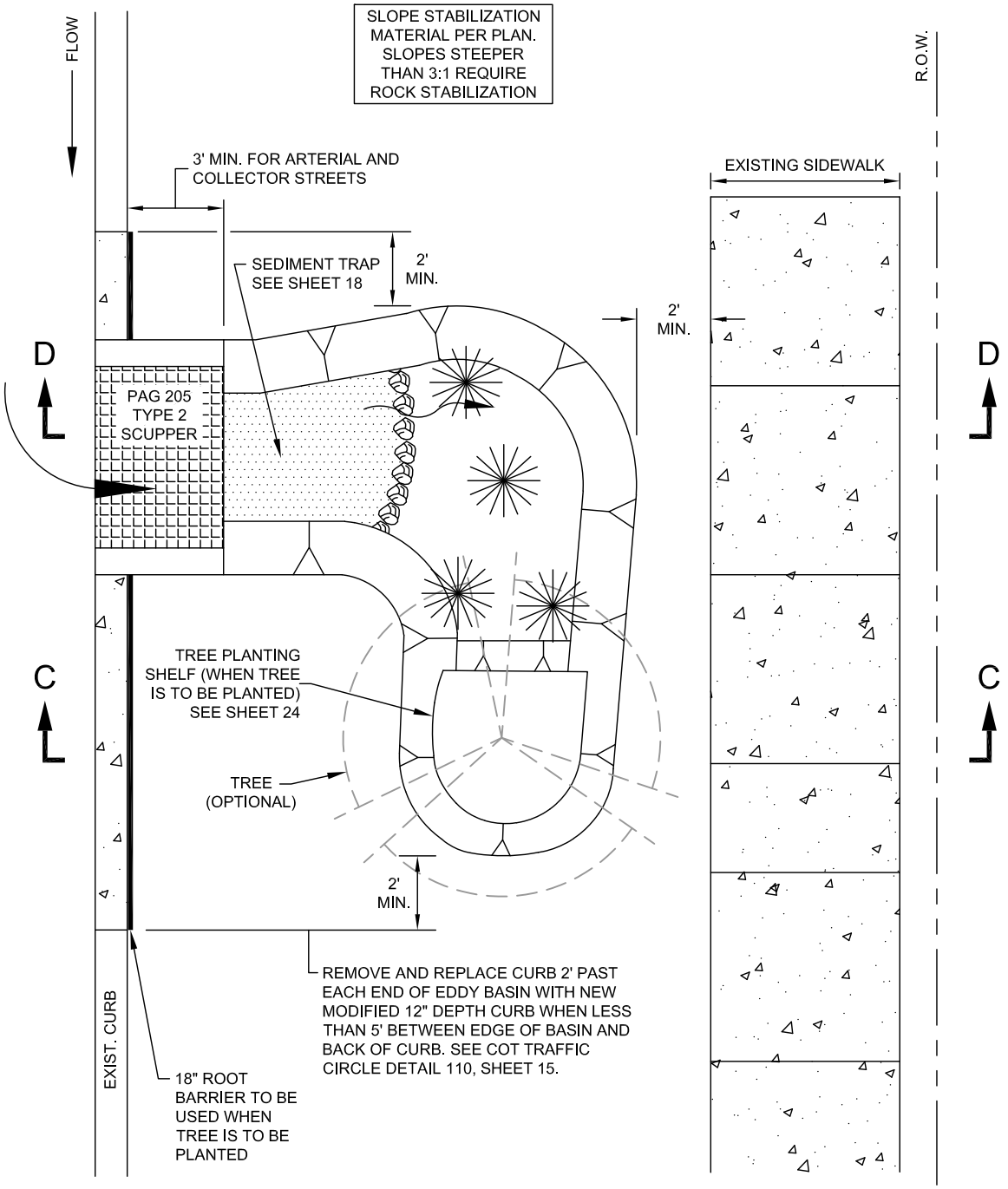


NOTES:

1. FLOW THROUGH BASIN CANNOT BE USED WHERE HISTORIC CURB MARKINGS OR STAMPS EXIST AS HISTORIC CURB CANNOT BE REMOVED.
2. FLOW THROUGH BASIN DESIGN REQUIRED FOR BASINS LONGER THAN 25 FEET.
3. DTM STORMWATER REVIEW AND CITY ENGINEER WRITTEN PERMISSION IS REQUIRED FOR PROPOSED WATER HARVESTING IN REGULATORY FLOOD AREAS OR FLOOD PRONE AREAS.
4. BASIN SHALL BE CLEARED BY UTILITIES PRIOR TO GRADING OR EXCAVATION.
5. ALL TREES NEAR INTERSECTIONS WILL NEED SIGHT VISIBILITY TRIANGLE STUDY.
6. SEE SEDIMENT TRAP DETAIL SHEET 18.
7. LOCATE INLET UPSTREAM RELATIVE TO BASIN COLLECTION AREA.
8. THIS DETAIL CANNOT BE ALTERED OR CHANGED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER.

ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	FLOW THROUGH BASIN WITH EXISTING SIDEWALK	CIUDAD DE FUNDADA 1775 TUCSON	228 M-2026-005
REVISED:				SHEET 9 OF 26
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EDDY BASIN DETAIL WITH EXISTING SIDEWALK AT BACK OF BASIN FOR ARTERIAL AND COLLECTOR STREETS

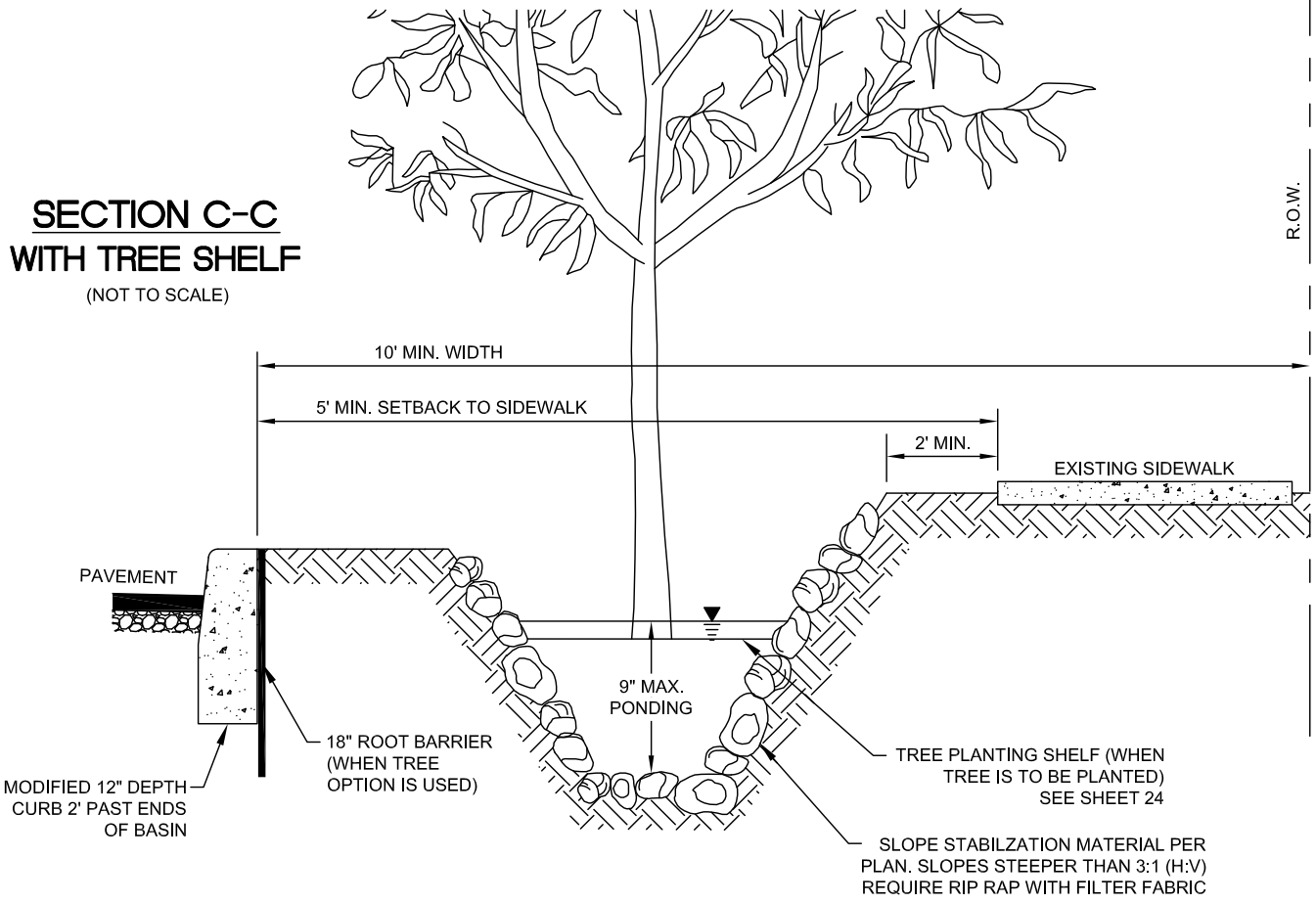


NOTES:
1. EDDY BASIN CANNOT BE USED WHERE HISTORIC CURB MARKINGS OR STAMPS EXIST AS HISTORIC CURB CANNOT BE REMOVED.
2. DTM STORMWATER REVIEW AND CITY ENGINEER WRITTEN PERMISSION IS REQUIRED FOR PROPOSED WATER HARVESTING IN REGULATORY FLOOD AREAS OR FLOOD PRONE AREAS.
3. BASIN SHALL BE CLEARED BY UTILITIES PRIOR TO GRADING OR EXCAVATION.
4. ALL TREES NEAR INTERSECTIONS WILL NEED SIGHT VISIBILITY TRIANGLE STUDY.
5. SEE SEDIMENT TRAP DETAIL SHEET 18.
6. LOCATE INLET UPSTREAM RELATIVE TO BASIN COLLECTION AREA.
7. THIS DETAIL CANNOT BE ALTERED OR CHANGED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER.

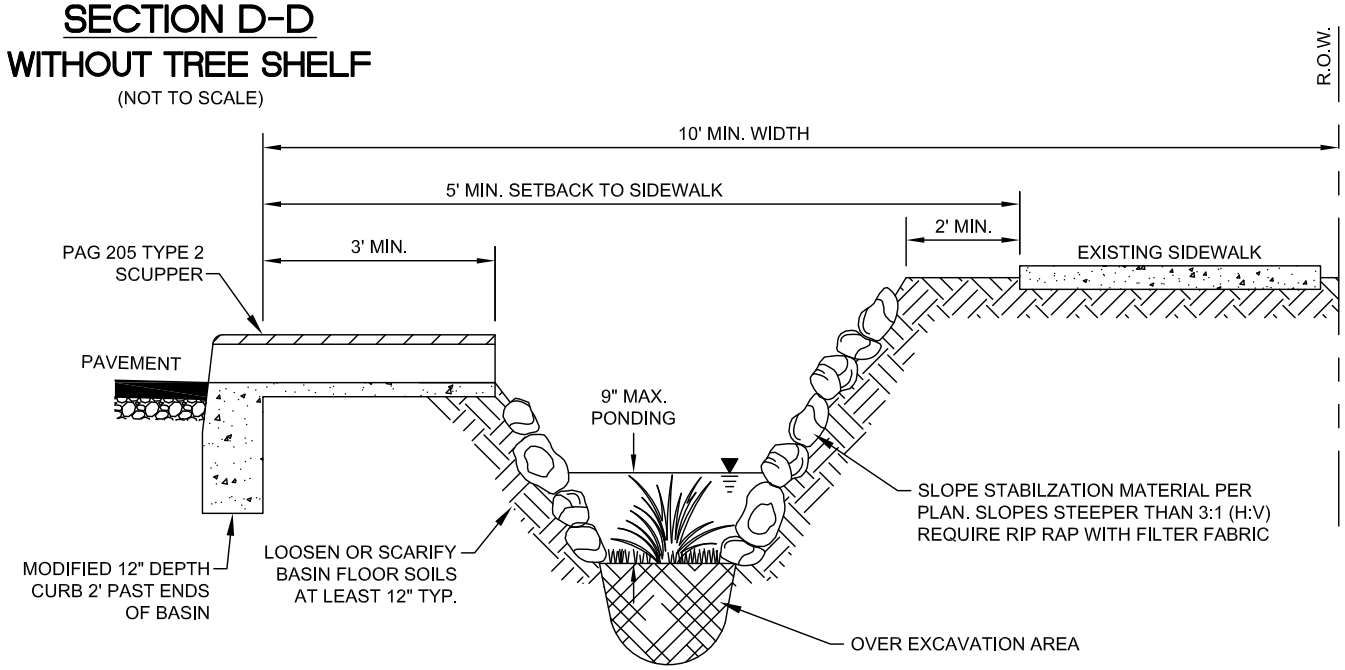
ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	EDDY BASIN WITH EXISTING SIDEWALK	CIUDAD DE FUNDADA 1775 TUCSON	228 M-2026-005
REVISED:				SHEET 10 OF 26
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EDDY BASIN DETAIL WITH EXISTING SIDEWALK AT BACK OF BASIN FOR ARTERIAL AND COLLECTOR STREETS

SECTION C-C
WITH TREE SHELF
(NOT TO SCALE)

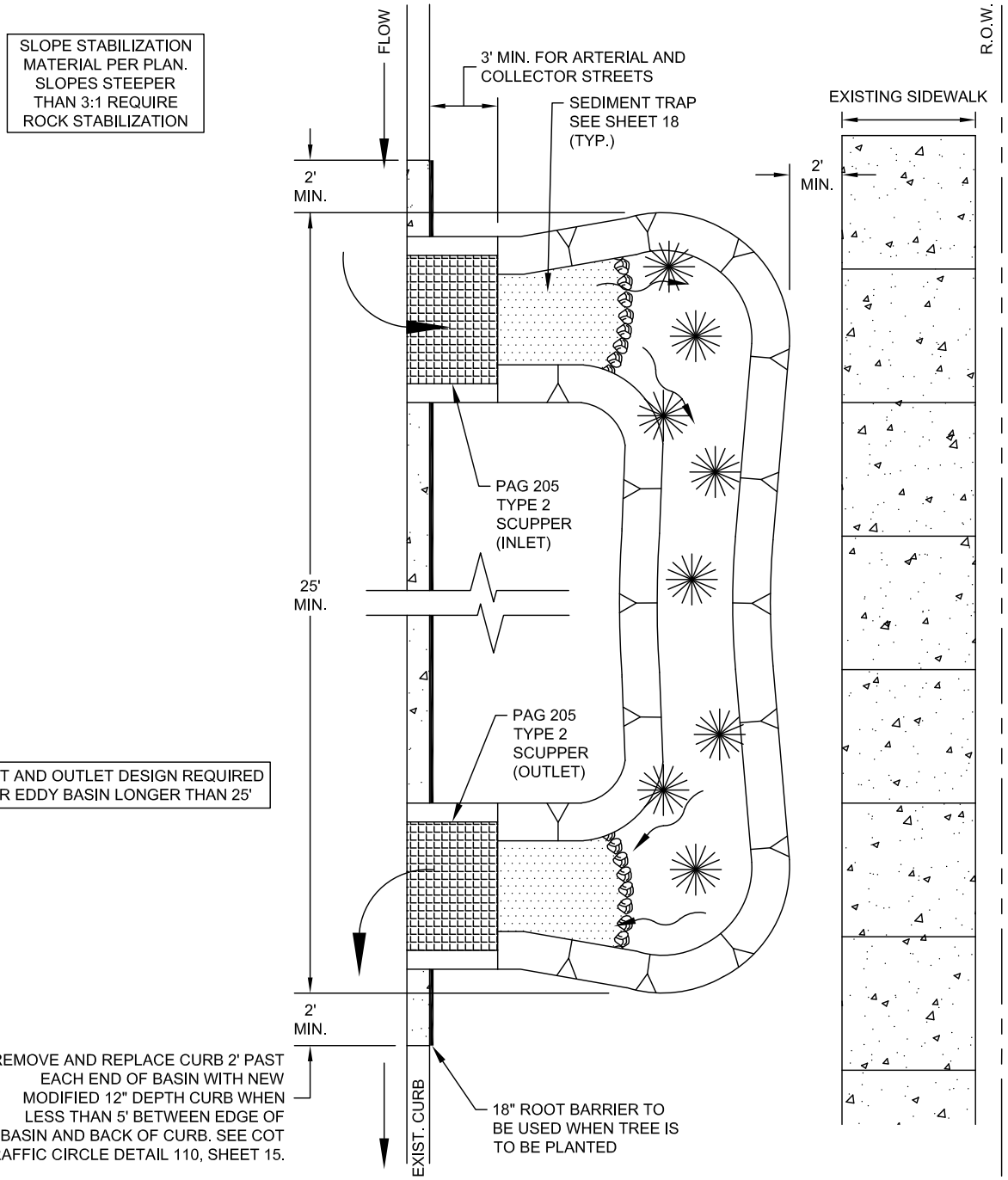


SECTION D-D
WITHOUT TREE SHELF
(NOT TO SCALE)



ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	EDDY BASIN WITH EXISTING SIDEWALK	CIUDAD DE FUNDADA 1775 TUCSON	228 M-2026-005
REVISED:				SHEET 11 OF 26
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FLOW THROUGH BASIN DETAIL WITH EXISTING SIDEWALK AT BACK OF BASIN FOR ARTERIAL AND COLLECTOR STREETS

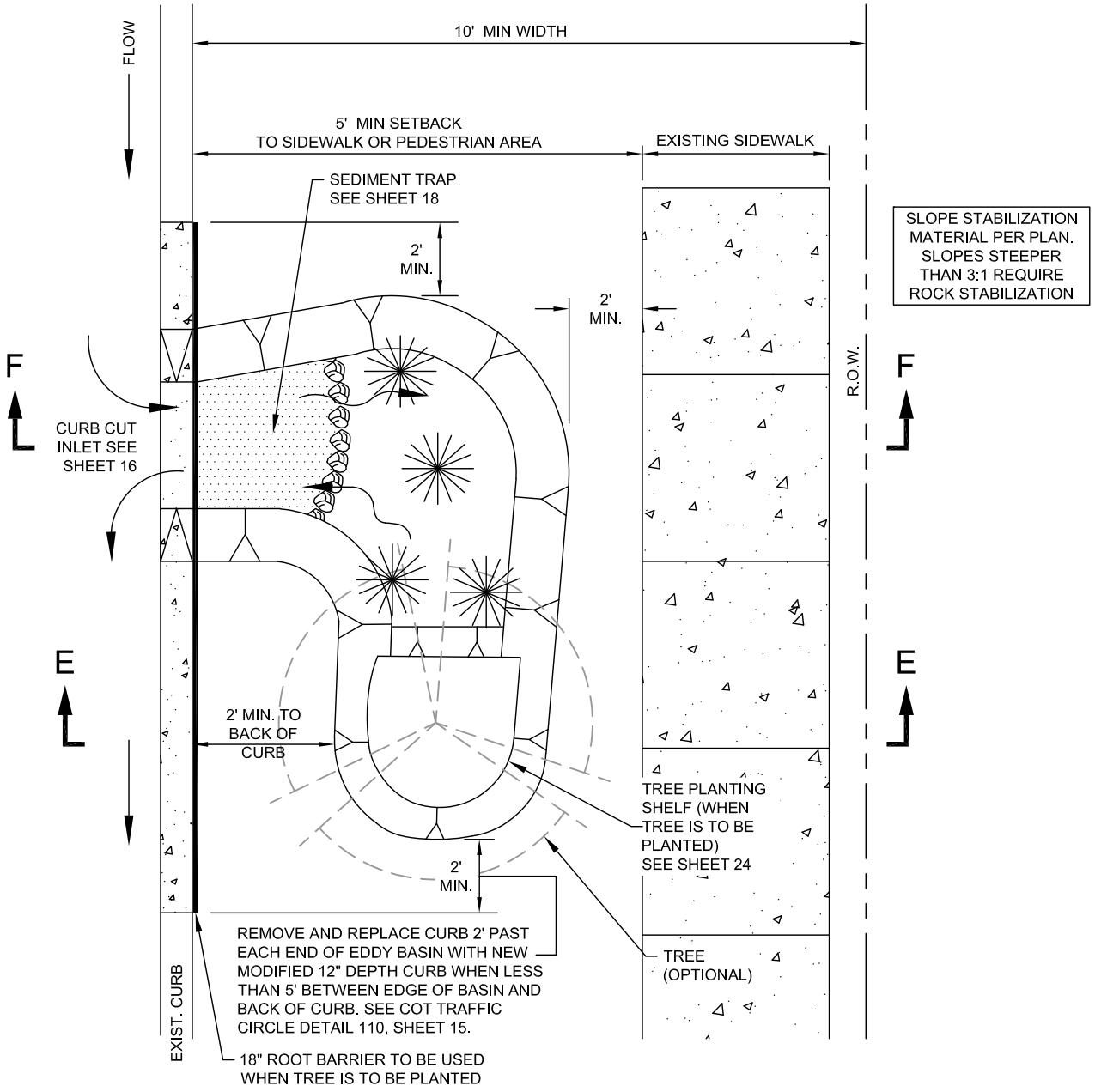


NOTES:

1. FLOW THROUGH BASIN CANNOT BE USED WHERE HISTORIC CURB MARKINGS OR STAMPS EXIST AS HISTORIC CURB CANNOT BE REMOVED.
2. FLOW THROUGH BASIN DESIGN REQUIRED FOR BASINS LONGER THAN 25 FEET.
3. DTM STORMWATER REVIEW AND CITY ENGINEER WRITTEN PERMISSION IS REQUIRED FOR PROPOSED WATER HARVESTING IN REGULATORY FLOOD AREAS OR FLOOD PRONE AREAS.
4. BASIN SHALL BE CLEARED BY UTILITIES PRIOR TO GRADING OR EXCAVATION.
5. ALL TREES NEAR INTERSECTIONS WILL NEED SIGHT VISIBILITY TRIANGLE STUDY.
6. SEE SEDIMENT TRAP DETAIL SHEET 18.
7. LOCATE INLET UPSTREAM RELATIVE TO BASIN COLLECTION AREA.
8. THIS DETAIL CANNOT BE ALTERED OR CHANGED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER.

ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	FLOW THROUGH BASIN WITH EXISTING SIDEWALK	CIUDAD DE FUNDADA 1775 TUCSON	228 M-2026-005
REVISED:				SHEET 12 OF 26
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EDDY BASIN DETAIL WITH EXISTING SIDEWALK AT BACK OF BASIN FOR RESIDENTIAL STREETS



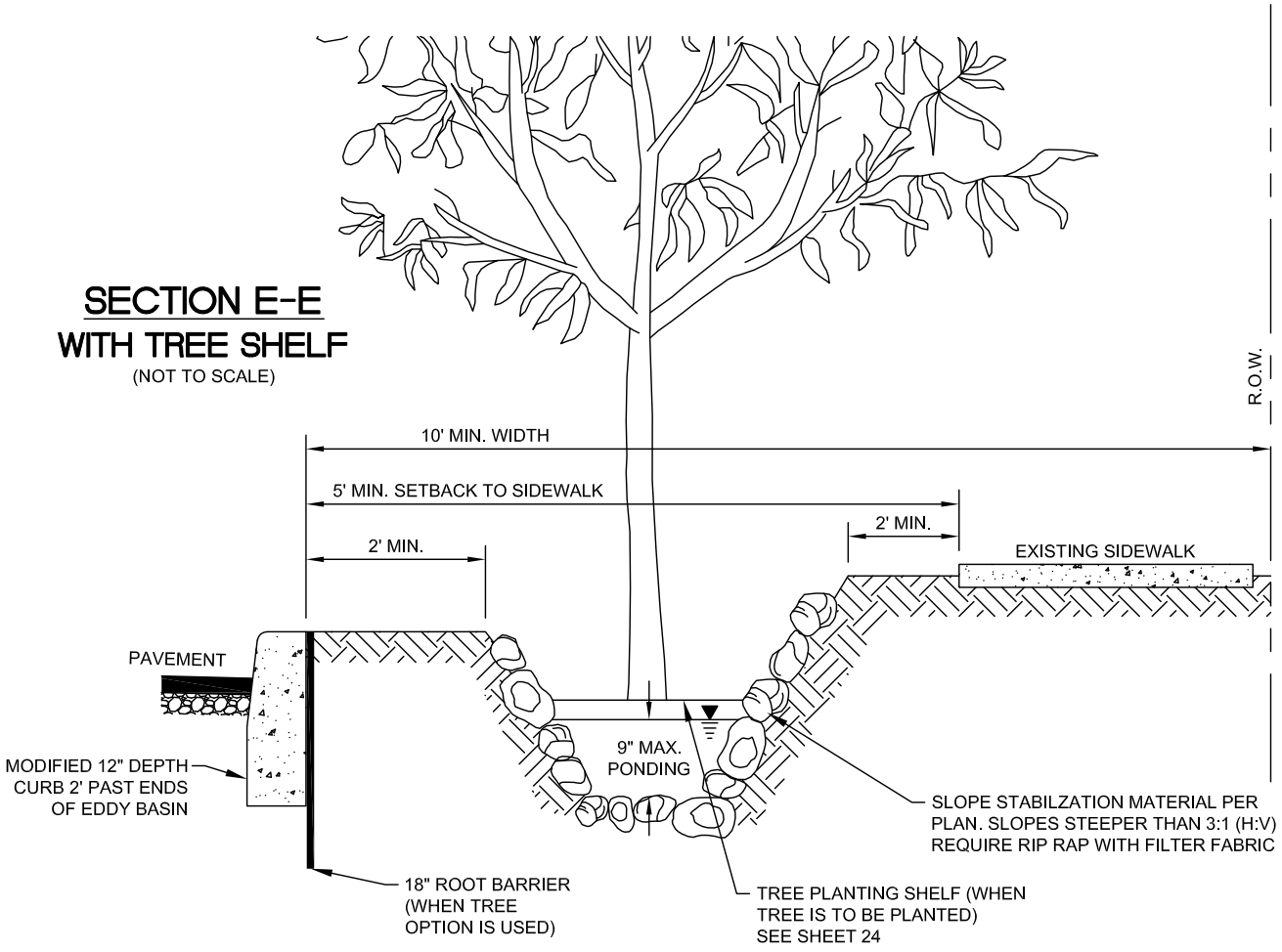
NOTES:

1. EDDY BASIN CANNOT BE USED WHERE HISTORIC CURB MARKINGS OR STAMPS EXIST AS HISTORIC CURB CANNOT BE REMOVED.
2. DTM STORMWATER REVIEW AND CITY ENGINEER WRITTEN PERMISSION IS REQUIRED FOR PROPOSED WATER HARVESTING IN REGULATORY FLOOD AREAS OR FLOOD PRONE AREAS.
3. BASIN SHALL BE CLEARED BY UTILITIES PRIOR TO GRADING OR EXCAVATION.
4. ALL TREES NEAR INTERSECTIONS WILL NEED SIGHT VISIBILITY TRIANGLE STUDY.
5. NEW MODIFIED TWELVE (12) INCH CURB DEPTH NEEDED TWO (2) FEET PAST THE ENDS OF BASIN PER COT TRAFFIC CIRCLE DETAIL 110, SHEET 15.
6. SEE SEDIMENT TRAP DETAIL SHEET 18.
7. LOCATE INLET UPSTREAM RELATIVE TO BASIN COLLECTION AREA.
8. THIS DETAIL CANNOT BE ALTERED OR CHANGED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER.

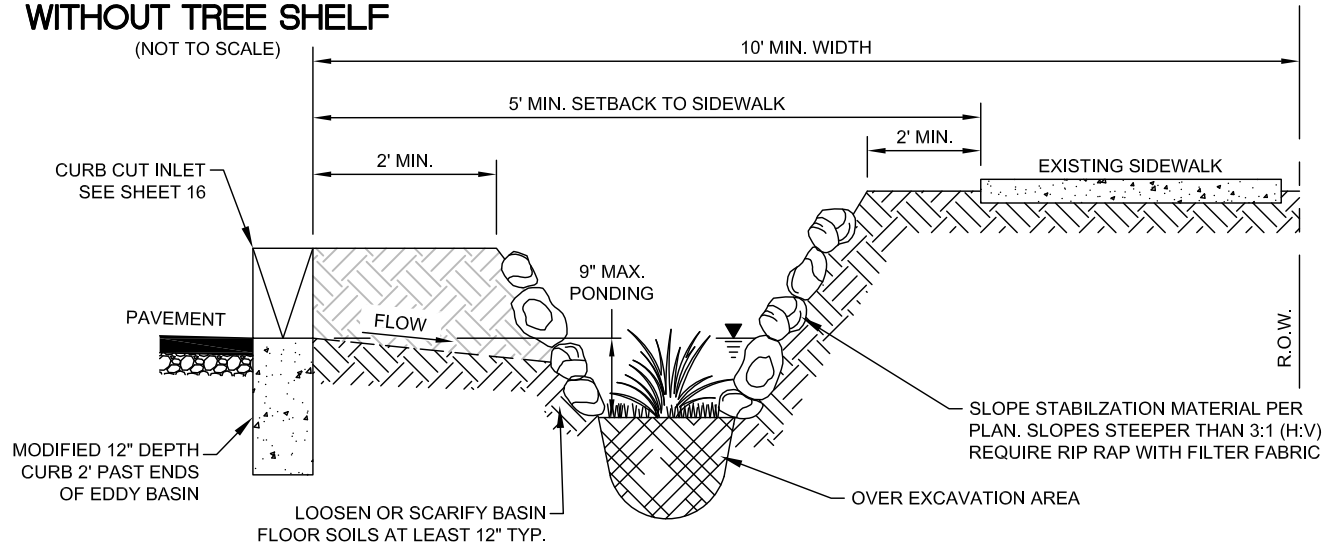
ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	EDDY BASIN WITH SIDEWALK BEHIND BASIN	CIUDAD DE TUCSON	228 M-2026-005
REVISED:				SHEET 13 OF 26
–				

EDDY BASIN DETAIL WITH EXISTING SIDEWALK AT BACK OF BASIN FOR RESIDENTIAL STREETS

SECTION E-E
WITH TREE SHELF
(NOT TO SCALE)

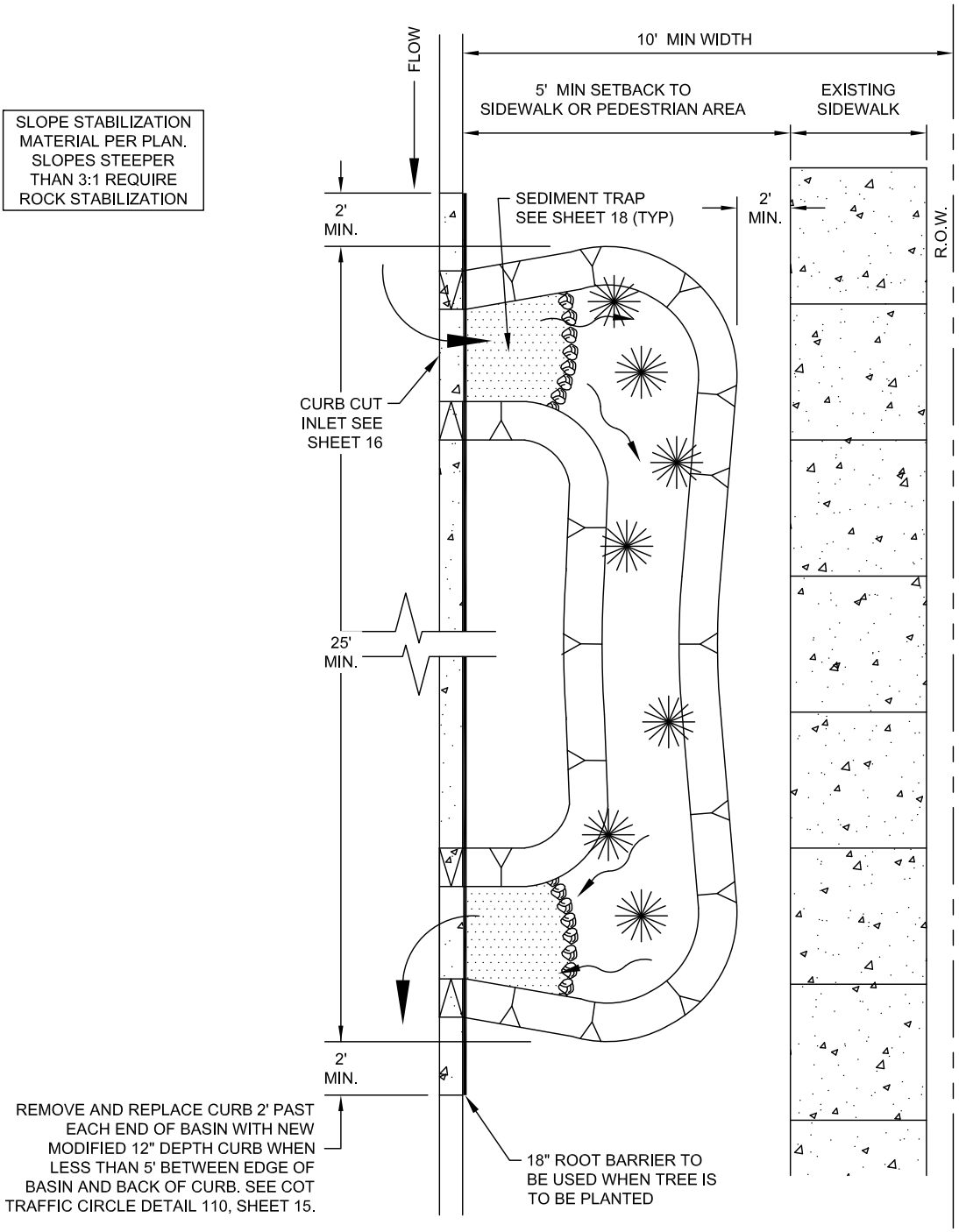


SECTION F-F
WITHOUT TREE SHELF
(NOT TO SCALE)



ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	EDDY BASIN (CONT.) WITH SIDEWALK BEHIND BASIN	CIUDAD DE FUNDADA 1775 TUCSON	228 M-2026-005
REVISED:				SHEET 14 OF 26
–				

FLOW THROUGH BASIN DETAIL WITH EXISTING SIDEWALK AT BACK OF BASIN FOR RESIDENTIAL STREETS

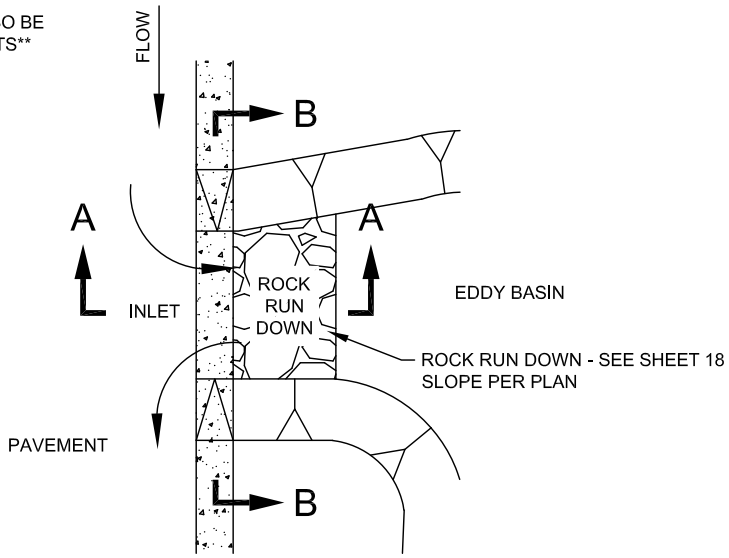


NOTES:

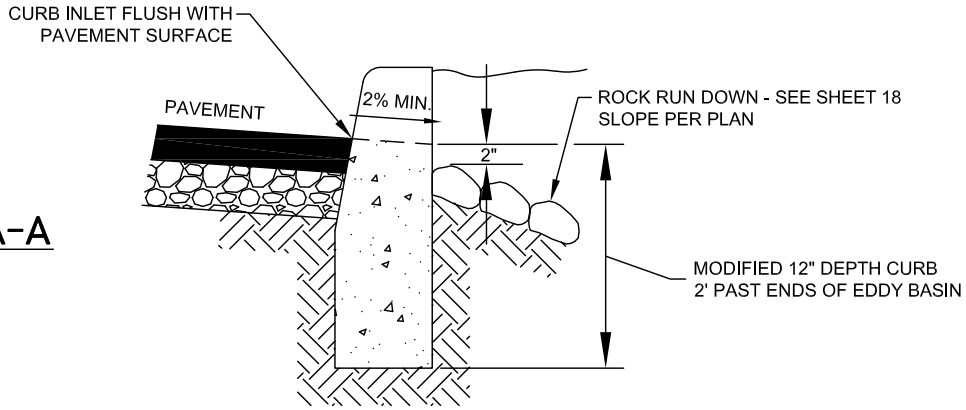
1. FLOW THROUGH BASIN CANNOT BE USED WHERE HISTORIC CURB MARKINGS OR STAMPS EXIST AS HISTORIC CURB CANNOT BE REMOVED.
2. DTM STORMWATER REVIEW AND CITY ENGINEER WRITTEN PERMISSION IS REQUIRED FOR PROPOSED WATER HARVESTING IN REGULATORY FLOOD AREAS OR FLOOD PRONE AREAS.
3. BASIN SHALL BE CLEARED BY UTILITIES PRIOR TO GRADING OR EXCAVATION.
4. ALL TREES NEAR INTERSECTIONS WILL NEED SIGHT VISIBILITY TRIANGLE STUDY.
5. NEW MODIFIED TWELVE (12) INCH CURB DEPTH NEEDED TWO (2) FEET PAST THE ENDS OF BASIN PER COT TRAFFIC CIRCLE DETAIL 110, SHEET 15.
6. SEE SEDIMENT TRAP DETAIL SHEET 18.
7. LOCATE INLET UPSTREAM RELATIVE TO BASIN COLLECTION AREA.
8. THIS DETAIL CANNOT BE ALTERED OR CHANGED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER.

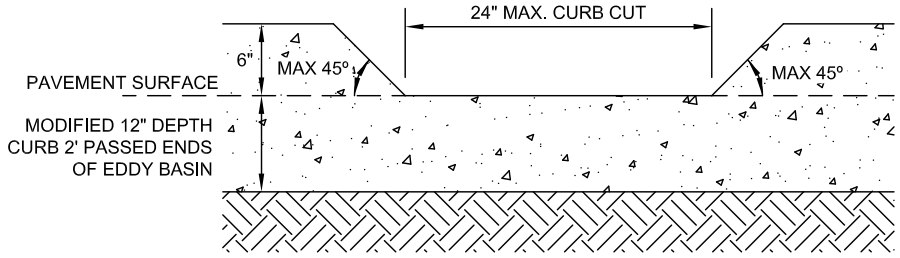
ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	FLOW THROUGH BASIN WITH SIDEWALK BEHIND BASIN	CIUDAD DE FUNDADA 1775 TUCSON	228 M-2026-005
REVISED:				SHEET 15 OF 26
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COT CURB SLICE DETAIL 221 CAN ALSO BE USED AS AN OPTION ON LOCAL STREETS



SECTION A-A





SECTION B-B

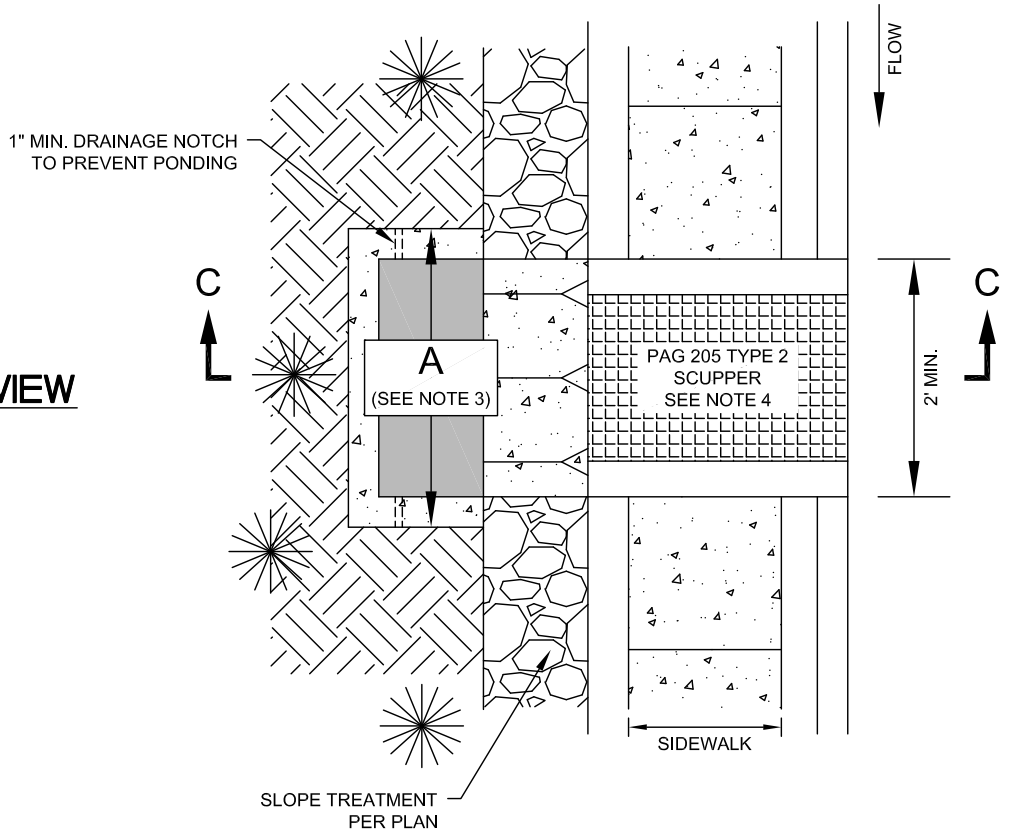
NOTES:
1. CURB CUTS CANNOT BE USED WHERE HISTORIC CURB MARKINGS OR STAMPS EXIST AS HISTORIC CURB CANNOT BE REMOVED.
2. CURB CUTS MUST HAVE A MINIMUM OF 5' SEPARATION.
3. CURB CUTS MUST BE A MINIMUM OF 5' FROM DRIVEWAY APRONS.
4. CURB CUTS MUST BE A MINIMUM OF 20' FROM ALL CORNERS.
5. TREE PLANTING MUST BE A MINIMUM OF 50' FROM CORNERS WITH STOP SIGNS.
6. NEW MODIFIED 12" CURB DEPTH NEEDED 2' PASSED THE ENDS OF BASIN PER COT TRAFFIC CIRCLE DETAIL 110, SHEET 15.
7. CURB CUT SHALL NOT BE DEEPER THAN ROAD SURFACE ELEVATION.

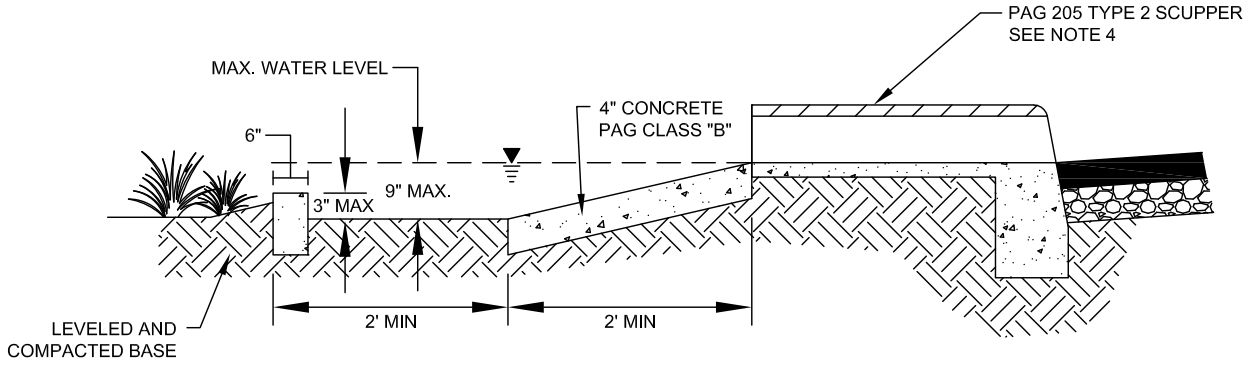
ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	CURB CUT	CIUDAD DE TUCSON	228
REVISED:				M-2026-005
–				SHEET 16 OF 26

CONCRETE SEDIMENT TRAP

TO BE USED IN AREAS WHERE CONCRETE SIDEWALK IS AT THE BACK OF BASIN OTHERWISE PAG SCUPPER IS NEEDED AT BACK OF CURB

PLAN VIEW





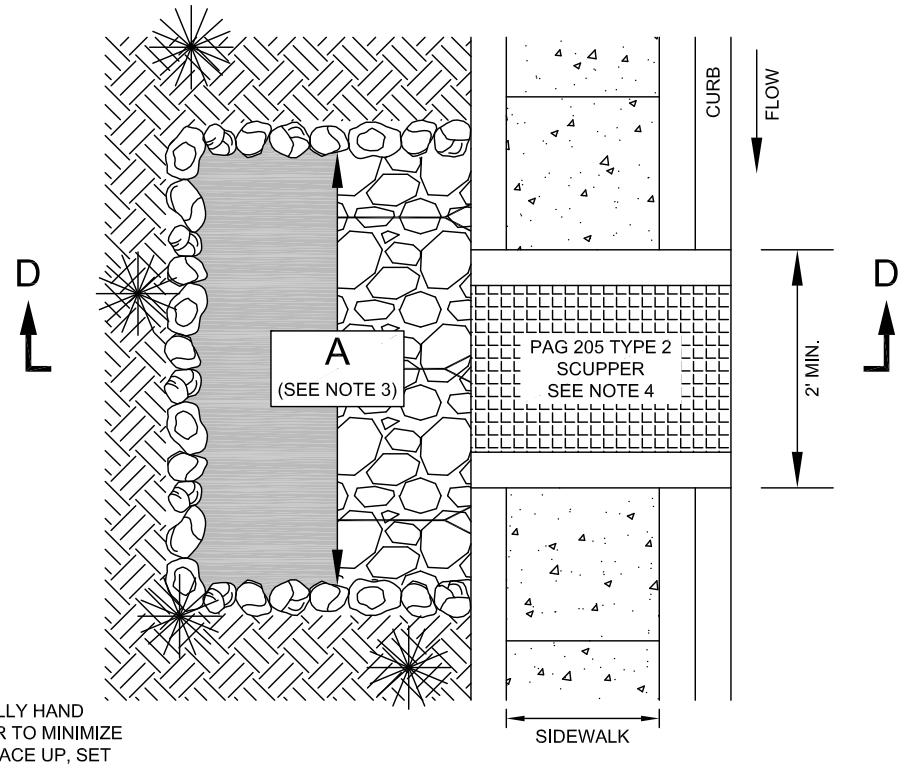
SECTION C-C

NOTES:
1. CANNOT BE USED WHERE HISTORIC CURB MARKINGS OR STAMPS EXIST AS HISTORIC CURB CANNOT BE REMOVED.
2. DIMENSIONS OF SEDIMENT TRAP SHOULD BE ADJUSTED BASED ON CONTRIBUTING WATERSHED SIZE AND SEDIMENT LOAD.
3. MIN. 'A' = LENGTH OF INLET OPENING ALONG CURB + 6" ON EACH SIDE OF OPENING.
4. MUST USE PAG SCUPPER ON ARTERIALS AND COLLECTORS UNLESS SIDEWALK IS AT BACK OF BASIN. 6' WIDE ON LOCAL STREETS, 7' WIDE ON ARTERIALS AND COLLECTORS.
5. MAX BASIN DEPTH IS 9".
6. TO REDUCE SCOUR, BOTTOM OF SEDIMENT TRAP SHOULD BE EQUAL TO OR BELOW ELEVATION OF BASIN.
7. NO PLANTS OR SEED IN SEDIMENT TRAP.

ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	SEDIMENT TRAP - CONCRETE	CIUDAD DE FUNDADA 1775 TUCSON	228 M-2026-005
REVISED:				SHEET 17 OF 26
–				

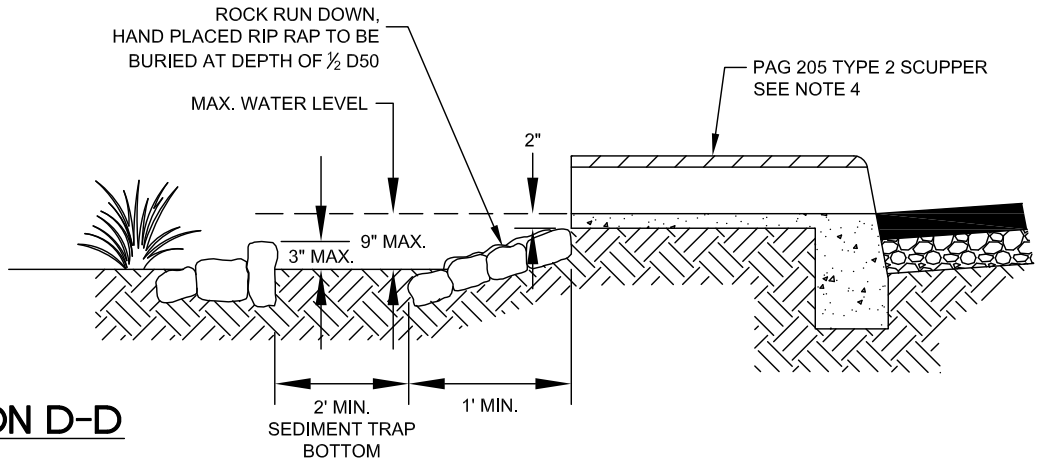
ROCK SEDIMENT TRAP

TO BE USED IN AREAS WHERE CONCRETE SIDEWALK IS AT THE BACK OF BASIN OTHERWISE PAG SCUPPER IS NEEDED AT BACK OF CURB



PLAN VIEW

ALL RIPRAP TO BE CAREFULLY HAND PLACED. KEY ROCKS TOGETHER TO MINIMIZE GAPS, PLACE WITH FLAT SURFACE UP, SET ROCKS 1/2 MIN BELOW FINISHED GRADE

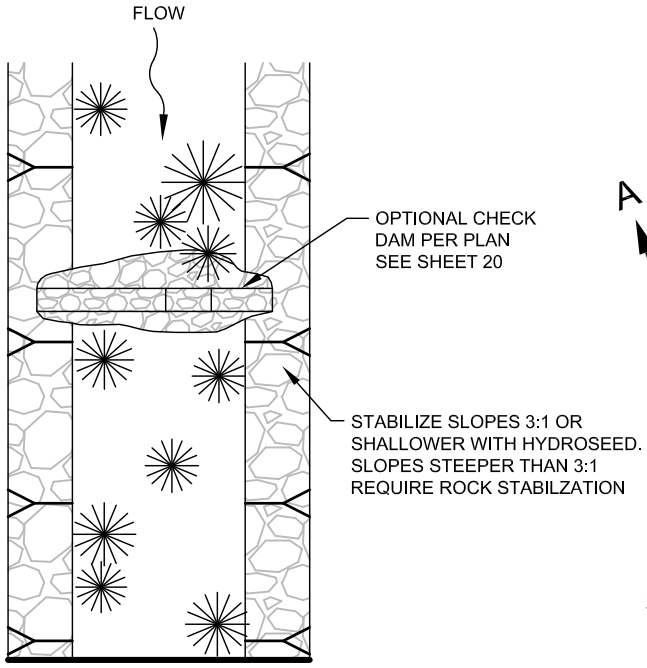


SECTION D-D

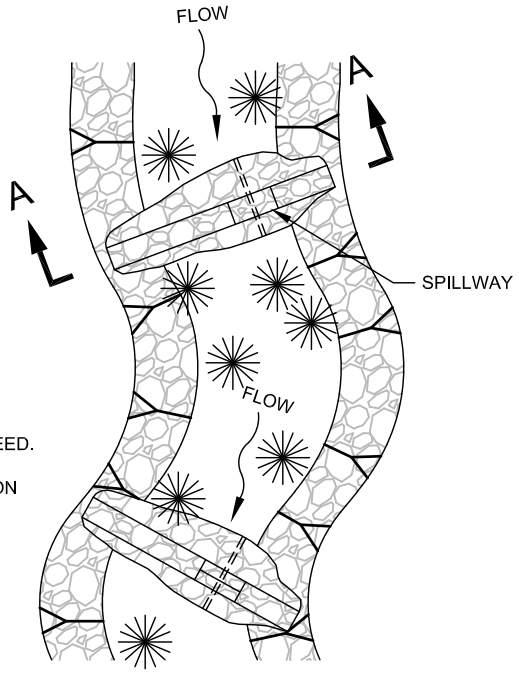
NOTES:

1. CANNOT BE USED WHERE HISTORIC CURB MARKINGS OR STAMPS EXIST AS HISTORIC CURB CANNOT BE REMOVED.
2. DIMENSIONS OF SEDIMENT TRAP SHOULD BE ADJUSTED BASED ON CONTRIBUTING WATERSHED SIZE AND SEDIMENT LOAD.
3. MIN. 'A' = LENGTH OF INLET OPENING ALONG CURB + 6" ON EACH SIDE OF OPENING.
4. MUST USE PAG 205 TYPE 2 SCUPPER ON ARTERIALS AND COLLECTORS UNLESS SIDEWALK IS AT BACK OF BASIN. 6' WIDE ON LOCAL STREETS, 7' WIDE ON ARTERIALS AND COLLECTORS.
5. MAX BASIN DEPTH IS 9".
6. TO REDUCE SCOUR, BOTTOM OF SEDIMENT TRAP SHOULD BE EQUAL TO OR BELOW ELEVATION OF BASIN.
7. NO PLANTS OR SEED IN SEDIMENT TRAP.

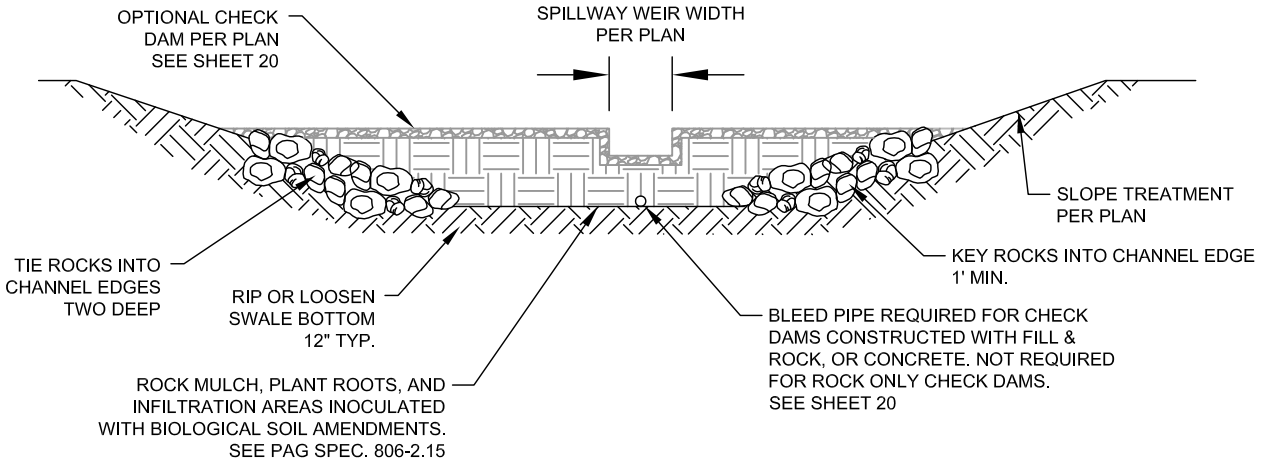
ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	SEDIMENT TRAP - ROCK	CIUDAD DE TUCSON	228
REVISED:				M-2026-005
–				SHEET 18 OF 26



LINEAR SWALE



MEANDERING SWALE

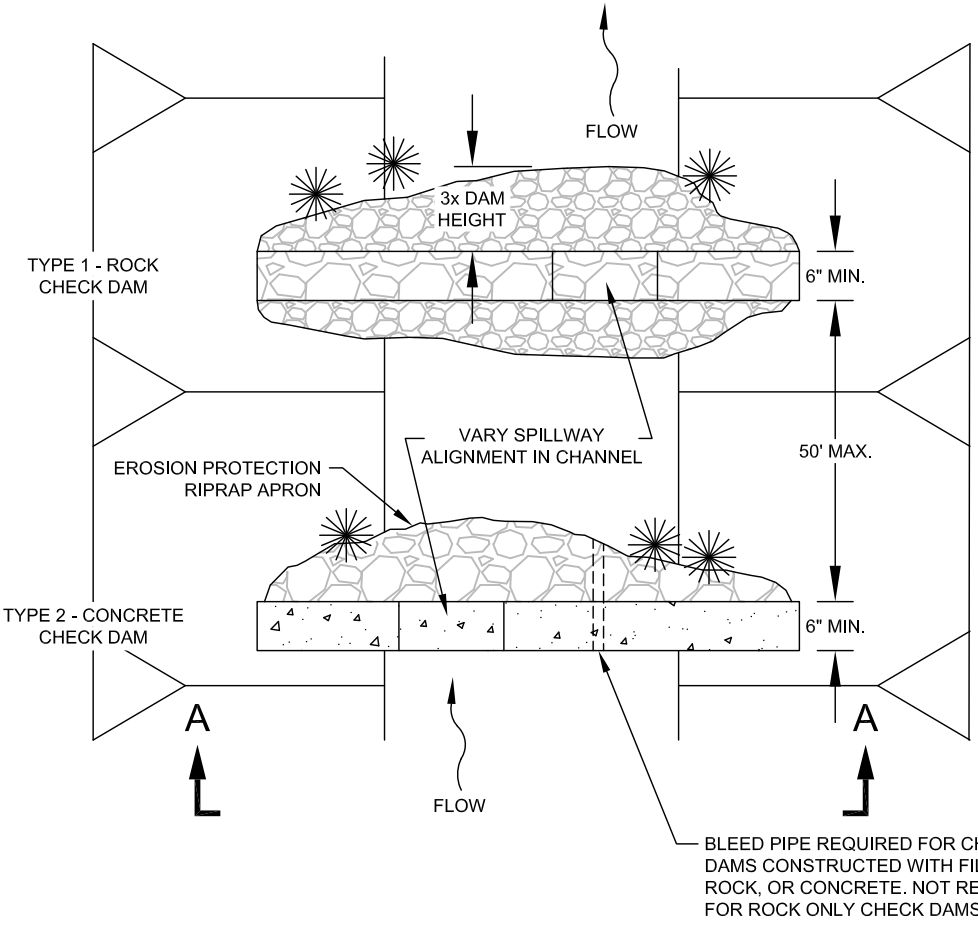


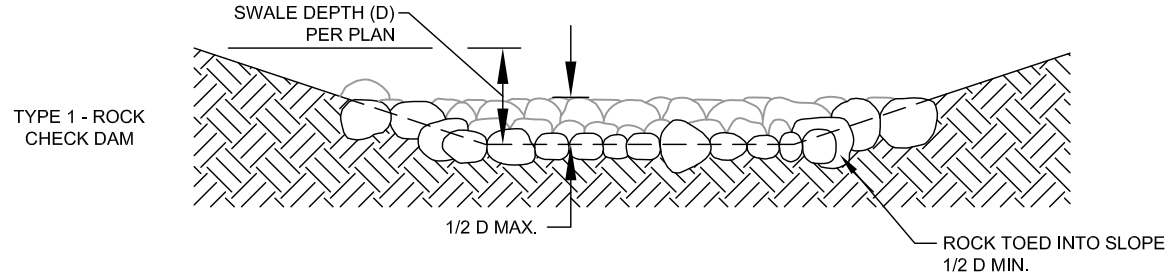
SECTION A-A

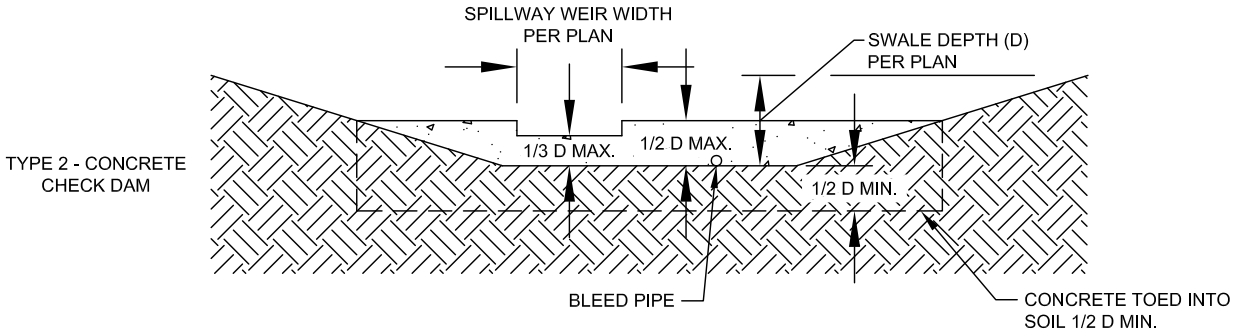
NOTES:
1. USE HYDROSEED TO STABILIZE SOIL IN SWALE BOTTOM AND SLOPES. AVOID APPLICATION DURING MONSOON AND WINTER RAINS.
2. SPILLWAYS SHALL BE OFFSET FROM ONE ANOTHER IF MEANDERING IS DESIRED PER PLAN.
3. MAXIMIZE SWALE CURVATURE TO REDUCE VELOCITY WHEN FEASIBLE.
4. WHEN DESIGN VELOCITY OF 2-YEAR FLOW EXCEEDS 3 FEET/SEC. APPROPRIATELY SIZED RIPRAP IS NEEDED FOR SWALE BOTTOM.
5. BLEED PIPE REQUIRED FOR CHECK DAMS CONSTRUCTED WITH FILL & ROCK OR CONCRETE. NOT REQUIRED FOR ROCK ONLY CHECK DAMS.

ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	VEGETATED SWALE	CIUDAD DE FUNDADA 1775 TUCSON	228
REVISED:				M-2026-005
–				SHEET 19 OF 26

PLAN



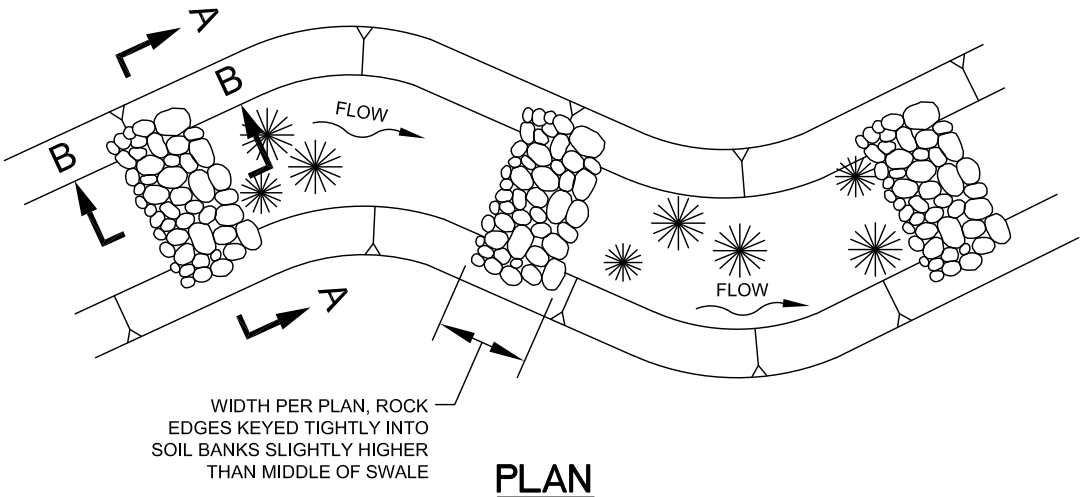




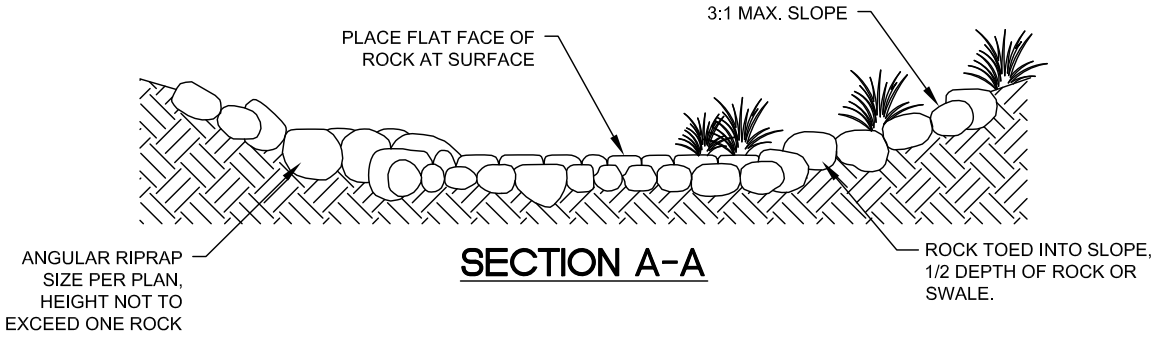
SECTION A-A

NOTES:
1. SPILLWAYS SHALL BE OFFSET FROM ONE ANOTHER.
2. HEIGHT OF SPILLWAY SHOULD BE SET TO CONTAIN A MINIMUM WATER DEPTH OF 9". IF DEPTHS EXCEED 18", ENHANCED INFILTRATION IS REQUIRED.
3. ROCK SHALL BE PLACED BY HAND.
4. TOP OF DOWNSTREAM DAM AT SAME ELEVATION AS TOE OF UPSTREAM DAM.
5. ROCK D50 6" MIN.

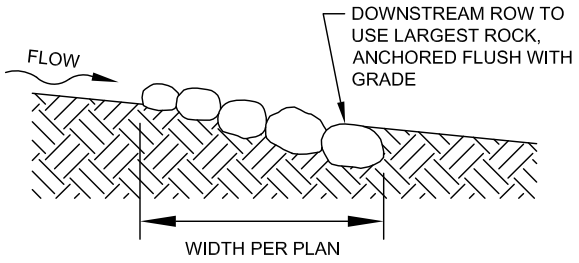
ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	CHECK DAM	CIUDAD DE FUNDADA 1775 TUCSON	228 M-2026-005
REVISED:				SHEET 20 OF 26
–				



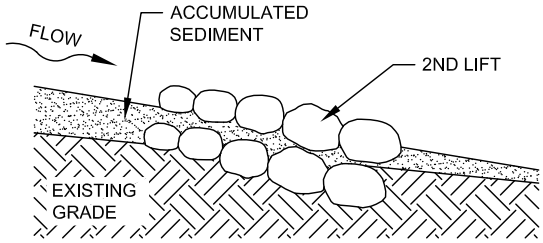
PLAN



SECTION A-A



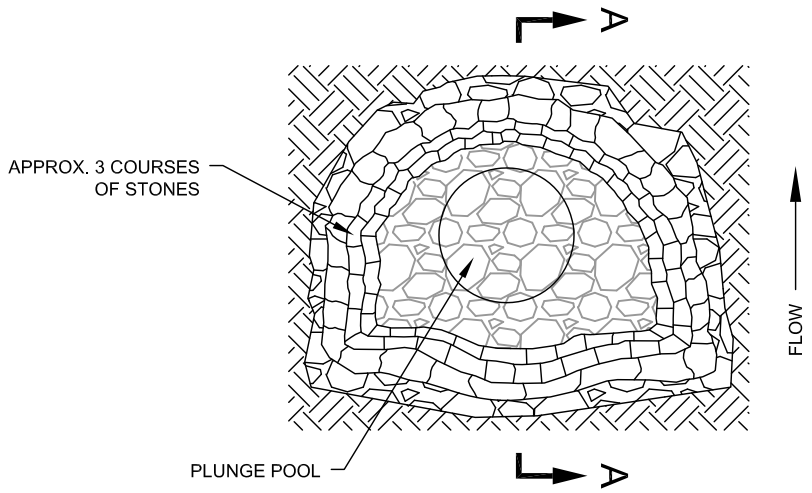
SECTION B-B (PHASE I)



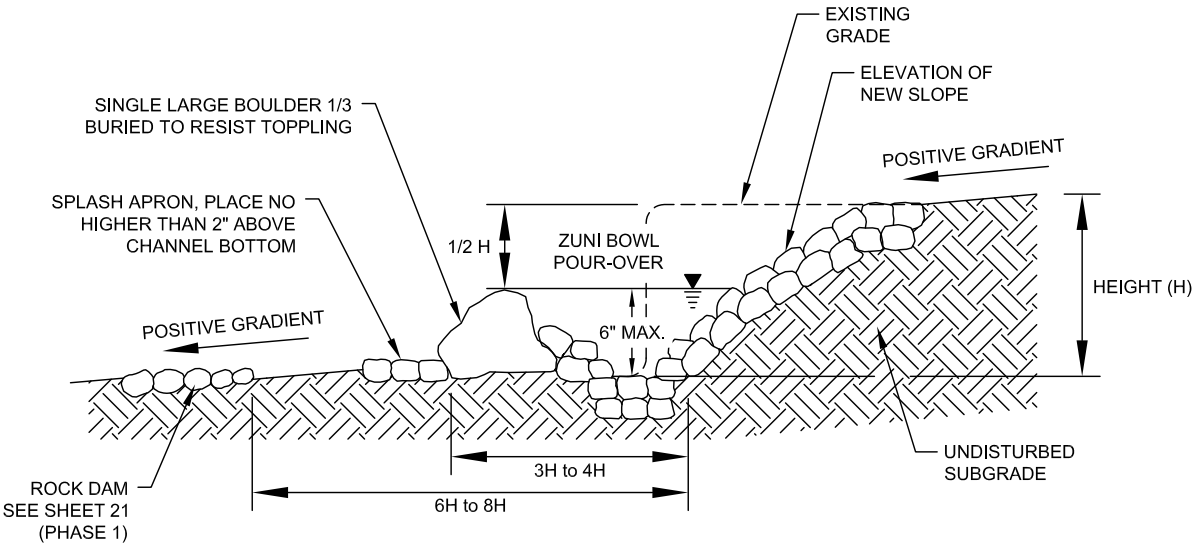
SECTION B-B (PHASE II)

NOTES:
1. DAMS NOT TO BE PLACED ON BENDS.
2. ROCK SIZE VARIES AND IS DETERMINED BY FLOW VOLUME/VELOCITY.
3. ALL ROCK TO BE HAND PLACED WITH FILTER FABRIC.
4. ROCK D50 6" MIN.

ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	ROCK DAM	CIUDAD DE FUNDADA 1775 TUCSON	228 M-2026-005
REVISED:				SHEET 21 OF 26
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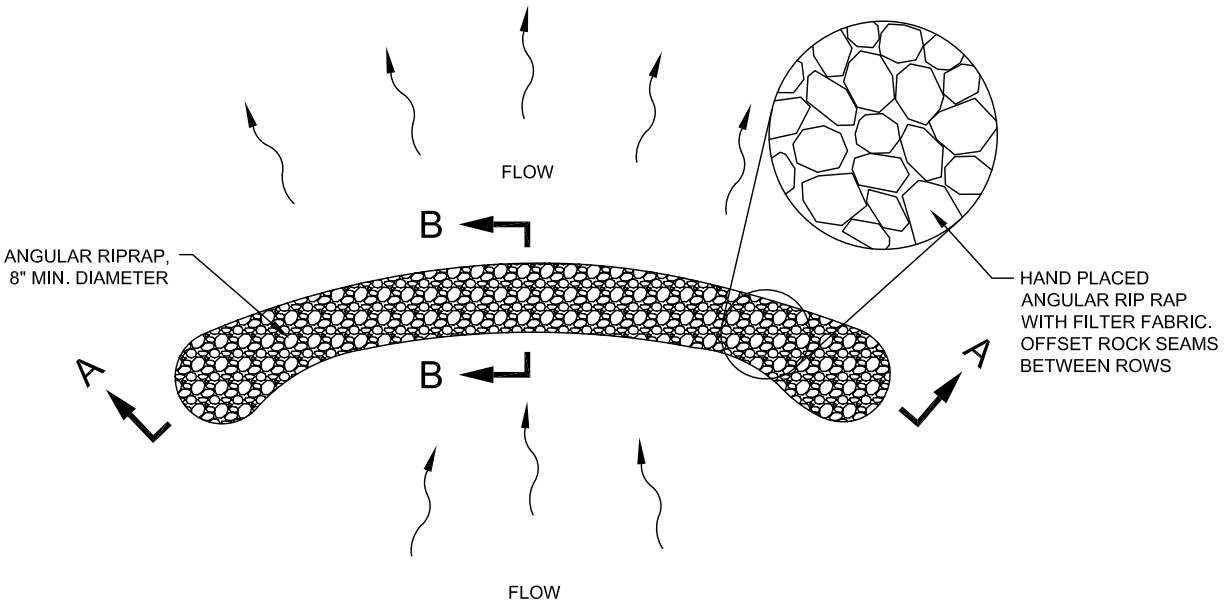
PLAN

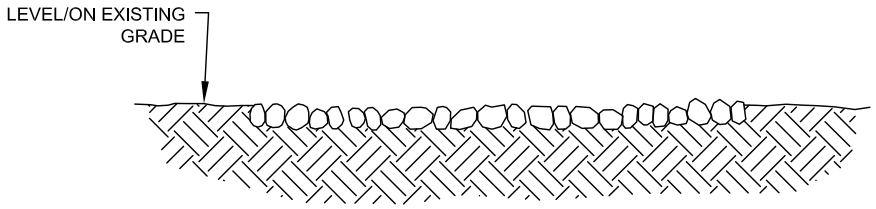


SECTION A-A

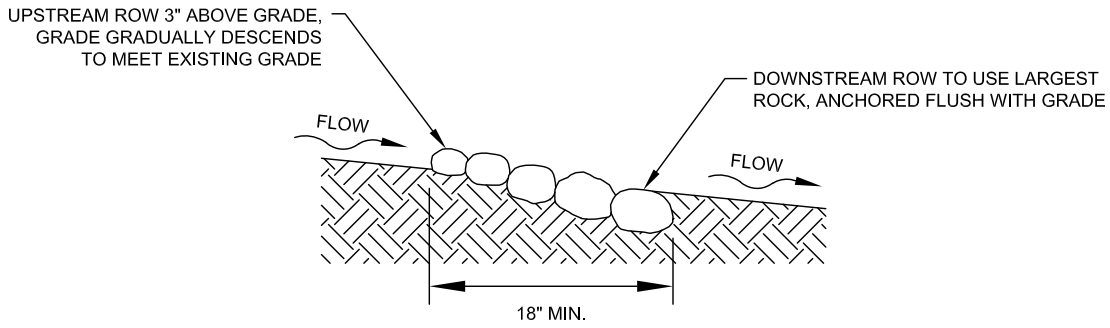
NOTES:
1. PLACE SPLASH APRON ROCKS FIRST.
2. SECOND ROW OF ROCKS AS LARGE AS POSSIBLE.
3. ADD PLUNGE POOL ARMOR AT UNIFORM HEIGHT.
4. LAY ROCK COURSES UPSTREAM FROM PLUNGE POOL.
5. ROCK D50 MIN. 10".
6. THIS PRACTICE INTENDED FOR NATURAL DRAINAGES AND BENEFITS RESTORATION PROJECTS FOR STREAM HEADCUTS.
7. ANGULAR RIPRAP SHOULD BE UTILIZED.
8. PLACE HYDROSEED BEFORE ROCK INSTALLATION.

ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	PREFORMED SCOUR HOLE	CIUDAD DE FUNDADA 1775 TUCSON	228
REVISED:				M-2026-005
–				SHEET 22 OF 26





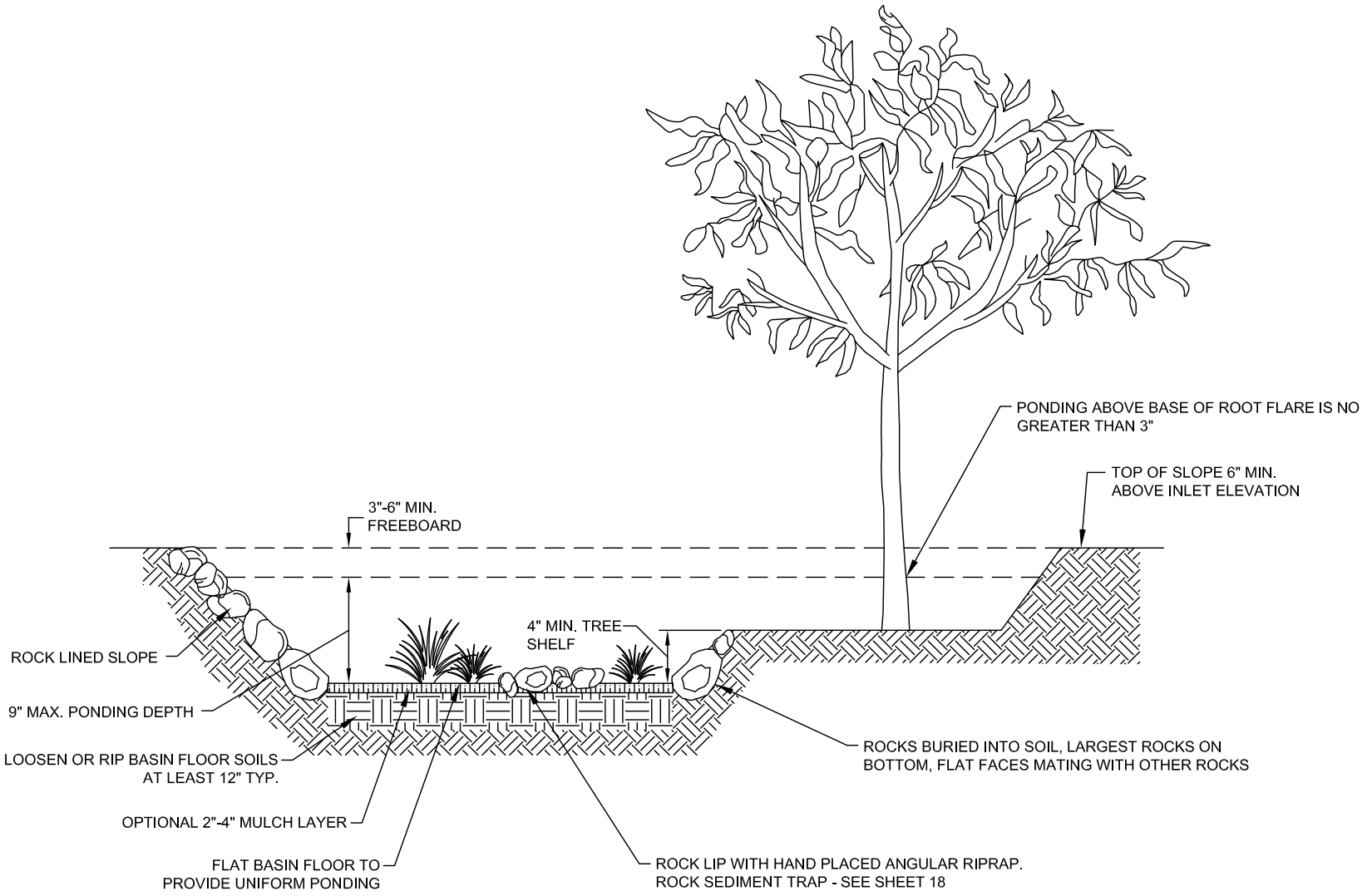
SECTION A-A



SECTION B-B

NOTES:
1. LENGTH AND WIDTH PER PLAN.
2. INSTALL SHEET FLOW SPREADER ON CONTOUR.
3. TIE ENDS OF SHEET FLOW SPREADER INTO SLOPE TO PREVENT WATER FROM MIGRATING AROUND IT.
4. ANGULAR RIPRAP SHOULD BE UTILIZED.

ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	SHEET FLOW SPREADER	CIUDAD DE FUNDADA 1775 TUCSON	228
REVISED:				M-2026-005
–				SHEET 23 OF 26



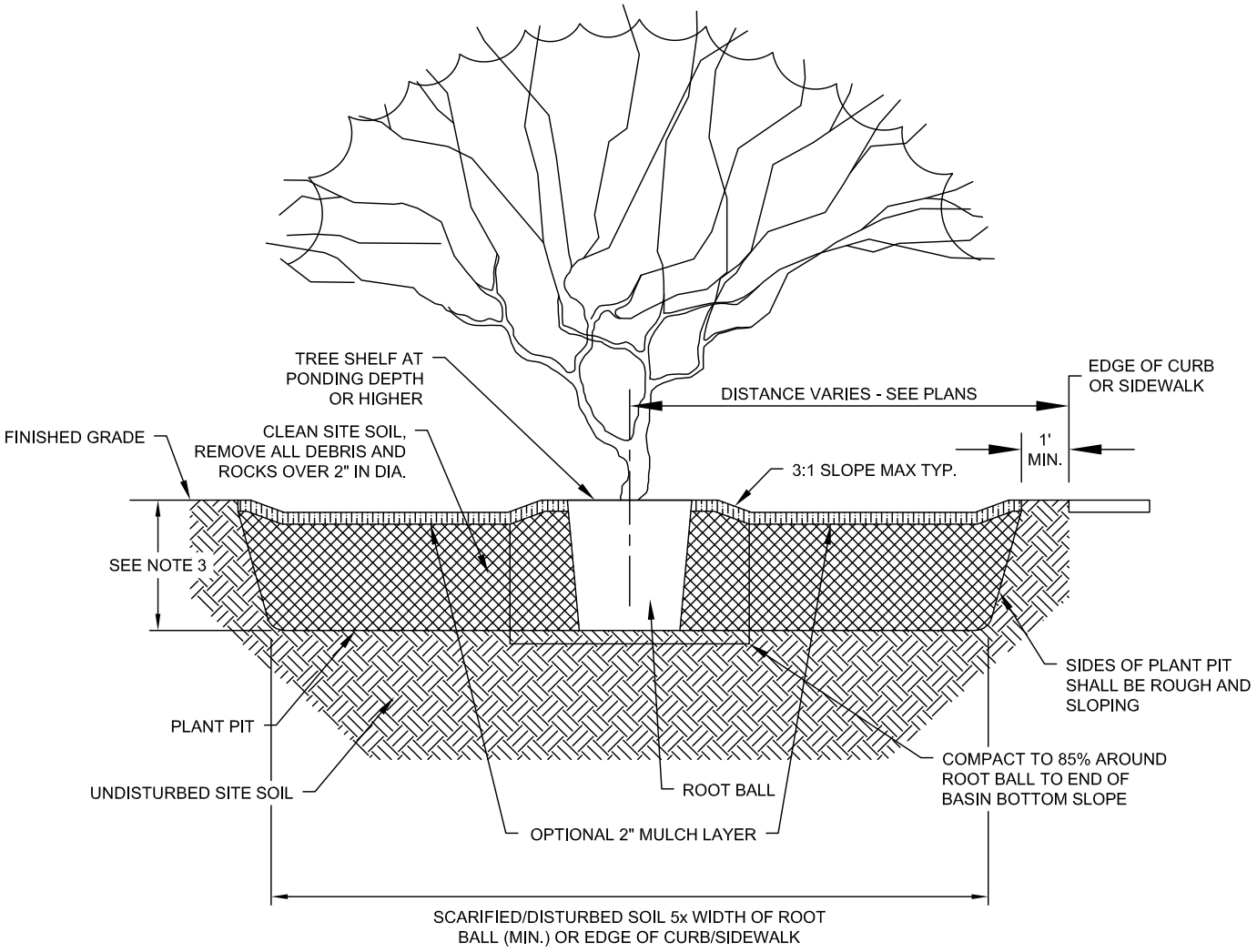
NOTES:
1. TREE SHELF ENSURES THERE IS NO STANDING WATER OR SEDIMENT BUILD UP AT ROOT FLARE.
2. STEP DOWN INTO THE FINISHED BASIN FROM ADJACENT GRADES MUST NOT EXCEED 12 INCHES.

DETAIL NO. 228
M-2026-005
SHEET 24 OF 26

STANDARD DETAIL

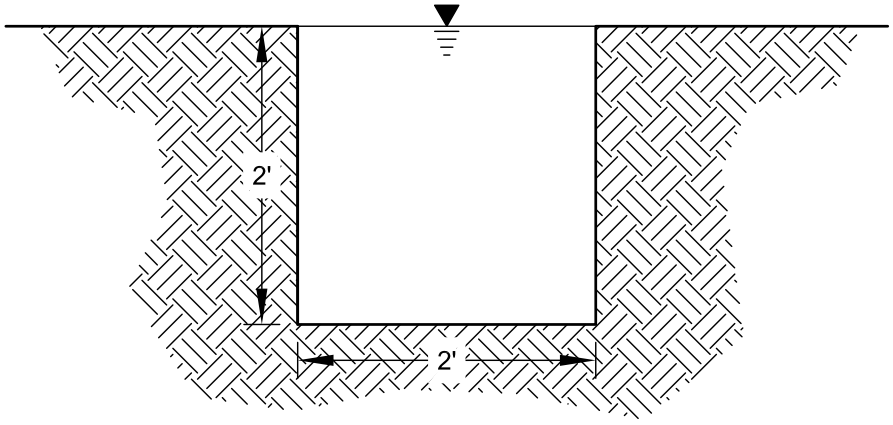
TREE PLANTING SHELF

ISSUED: 11/26
REVISED: –



NOTES:
1. STAKE TREES ONLY IF NEEDED, PER DIRECTION OF CITY LANDSCAPE ARCHITECT.
2. DEPTH OF PLANT PIT TO BE EQUAL TO DEPTH OF ROOT BALL.
3. INSPECT ROOTS PRIOR TO PLANTING AND ROOT PRUNE IF NEEDED.
4. LEVEL AND ROTATE TREE FOR BEST APPEARANCE.
5. WATER HARVESTING BASIN FLOOR TO PROVIDE UNIFORM PONDING.

ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	TREE PLANTING IN BASIN	CIUDAD DE FUNDADA 1775 TUCSON	228
REVISED:				M-2026-005
–				SHEET 25 OF 26



INFILTRATION TEST

NOTES:
1. REQUIRED FOR NRCS SOIL GROUPS C AND D.
2. HOLE WILL BE FILLED WITH WATER.
3. WATER MUST DRAIN WITHIN 24 HOURS.

ISSUED:		STANDARD DETAIL		DETAIL NO.
11/26	CITY OF TUCSON	INFILTRATION TEST	CIUDAD DE FUNDADA 1775 TUCSON	228 M-2026-005
REVISED:				SHEET 26 OF 26
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