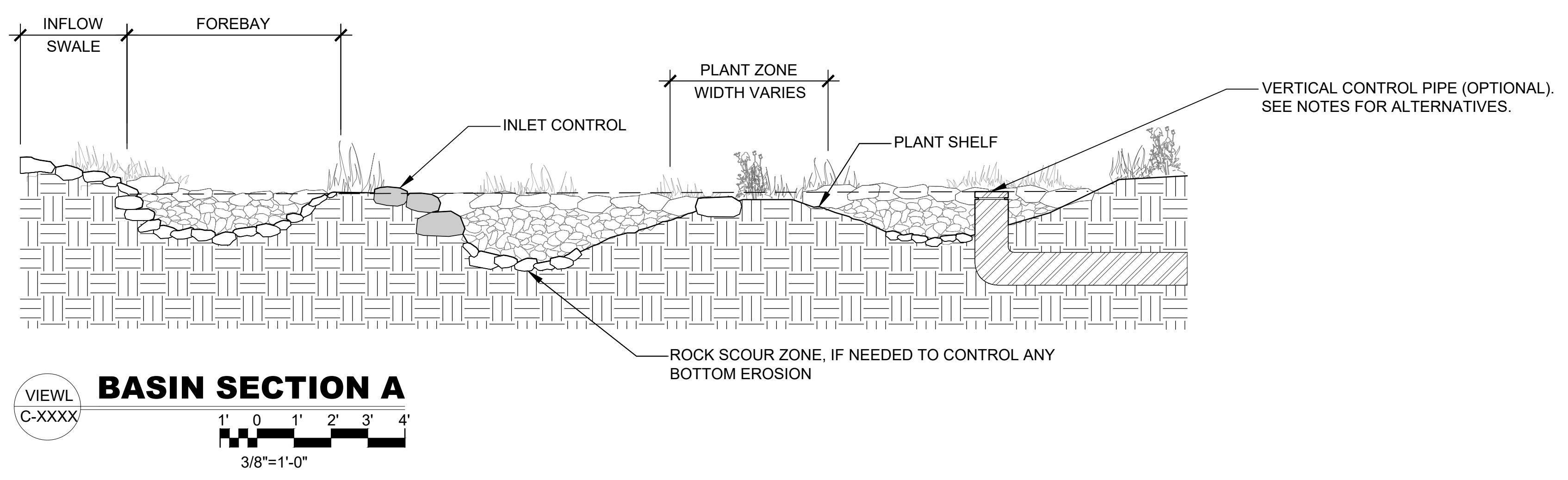


GENERAL NOTES:

- IF THIS SHEET IS NOT 24"x36" USE GRAPHIC SCALE ACCORDINGLY.



NOTES FOR DESIGNER:

(DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

DESIGN LIMITATIONS:

- CONTROL BASINS CAN CREATE ZONES OF PONDING, AND MAY REQUIRE ADDITIONAL SAFETY MEASURES.

SITING CRITERIA:

- CONTROL BASINS SHOULD BE SITED IN AREAS WITH ADEQUATE OPEN SPACE.
- CONTROL BASINS SHOULD NOT BE LOCATED ON STEEP SLOPES OR ON HIGHLY ERODIBLE SOILS.
- CONTROL BASINS CAN BE SITED TO HANDLE LARGE DRAINAGE AREAS.
- IF FILTER MEDIA IS INCORPORATED, CONTROL BASINS MAY BE SITED IN LOCATIONS WHERE WATER QUALITY IS A CONCERN.

DESIGN CRITERIA:

- BASIN GRADING SHALL BE DESIGNED TO SPREAD FLOW EVENLY ACROSS THE BASIN SURFACE.
- MAXIMUM SIDE SLOPES 3:1.
- WATER DEPTH SHOULD BE BETWEEN 18"-48".
- INCLUDE ADDITIONAL FREEBOARD IN BASIN CAPACITY DESIGN TO ACCOMMODATE SEDIMENT ACCUMULATION.
- IF INFILTRATION RATE IS LOW (<5"/HR) CONSIDER PLACEMENT OF A MIN. 12" SAND LAYER UNDER BASIN.
- OUTLET STRUCTURE SHOULD BE DESIGNED TO PROMOTE INFILTRATION AND REDUCE OUTLET VELOCITIES TO PREDEVELOPMENT VALUES.
- OUTLET STRUCTURES ARE NOT LIMITED TO VERTICAL CONTROL PIPES AS SHOWN AND MAY INCLUDE OTHER OPTIONS (E.G., OVERFLOW WEIRS, UNDER DRAINS, ETC.).
- VERTICAL CONTROL PIPES SHALL INCLUDE TRASH RACKS.
- CONSIDER INSTALLATION OF FEATURES (E.G., STAFF GAGES) TO MEASURE AND TRACK SEDIMENT ACCUMULATION.
- VEGETATION SHOULD BE DROUGHT-TOLERANT SPECIES ABLE TO WITHSTAND PERIODIC INUNDATION.

CONSTRUCTION CRITERIA:

- SOILS SHALL BE SUITABLE FOR VEGETATION GROWTH.
- ENSURE INLET AND OUTLET ELEVATIONS MATCH DESIGN SPECIFICATIONS.
- IDENTIFY APPROPRIATE MATERIALS AND HOLD POINTS FOR INSPECTION AND APPROVAL DURING CONSTRUCTION
- PROVIDE ACCESS FOR MAINTENANCE.

| | | REVISIONS PER [DCF] [DRN] [FCR] | | | | | | | |
|----|------|---------------------------------|----|-------------|-----|------|------|-----|-----|
| 0 | | INITIAL ISSUE FOR [DCF-XYZ] | | | | | | | |
| NO | DATE | CLASS REV | DC | DESCRIPTION | DWN | DSGN | CHKD | SUB | APP |

ENGINEERING STANDARDS

**CIVIL
LOW IMPACT DEVELOPMENT
CONTROL BASIN**

| | |
|---------|------------|
| DRAWN | R. FERRELL |
| DESIGN | T. LEMKE |
| CHECKED | S. RAEI |
| DATE | 02-10-20 |

TA-XX BLDG XXXX

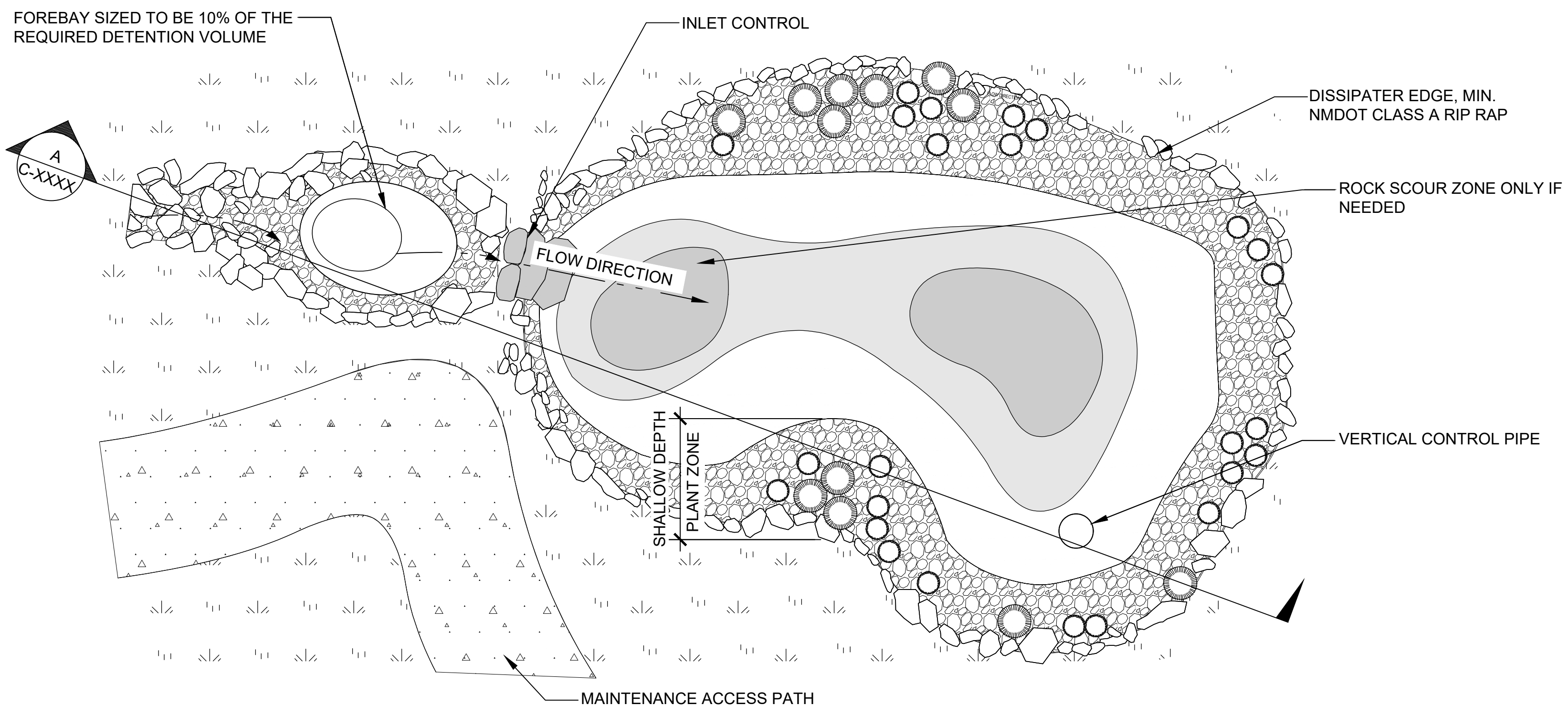
SUBMITTED DISCIPLINE POC: JOHN O'BRIEN APPROVED FOR RELEASE STANDARDS MANAGER: TOBIN ORUCH

SHEET **1**

Los Alamos NATIONAL LABORATORY PO Box 1663 Los Alamos, New Mexico 87545 **15** OF **16**

| | | |
|--------------------|--------------------------|----------|
| D.C.: UNCLASSIFIED | REVIEWER: DONALD YARDMAN | DATE: |
| PROJECT ID | DRAWING NO | REV |
| CHAPTER 3 | ST-G20GEN-1.15 | 0 |

00% REVIEW
NOT FOR CONSTRUCTION



BASIN PLAN
VIEWL C-XXXX
3/8"=1'-0"

D

C

B

A