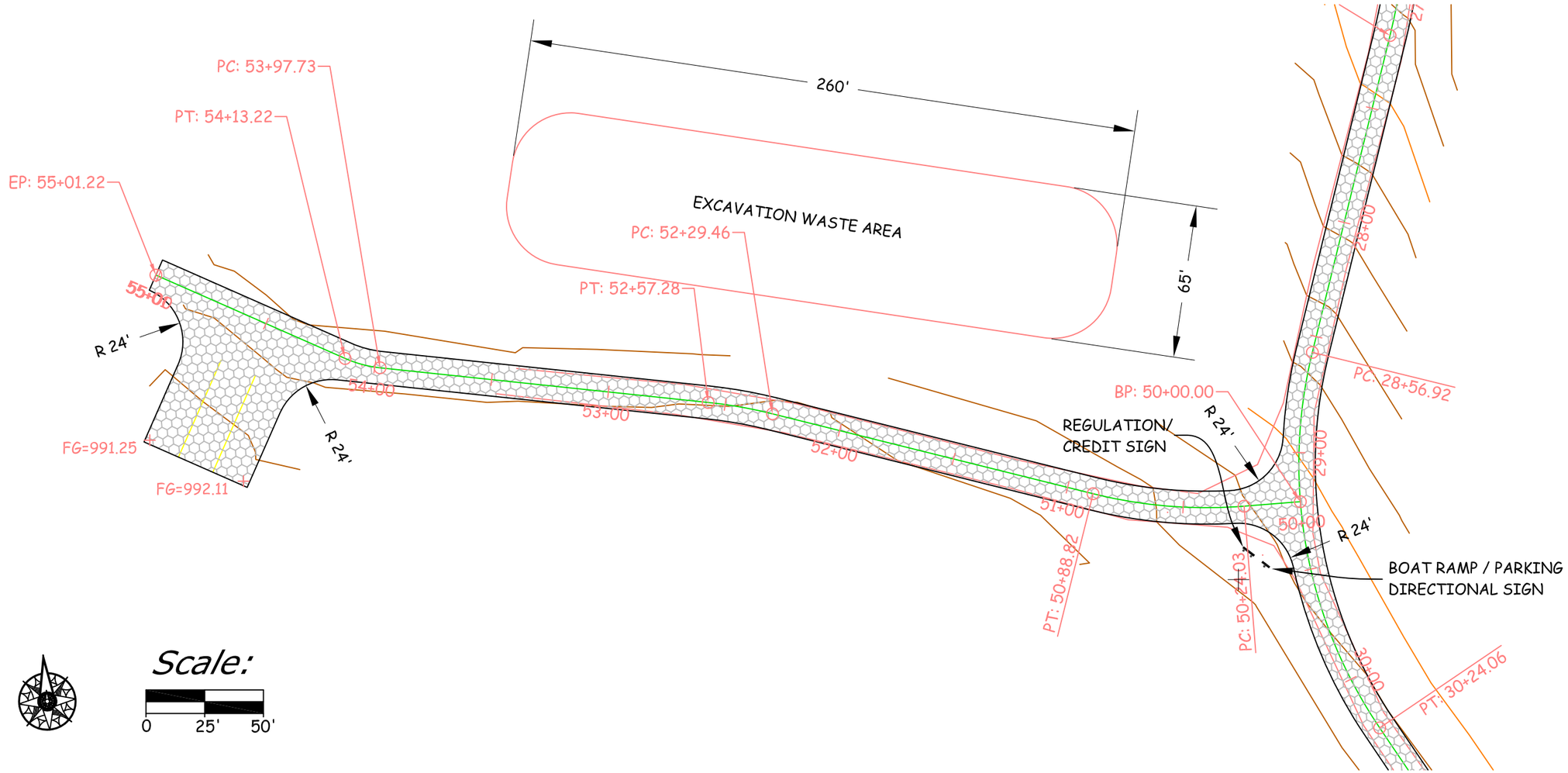

B. Mangum	6/13/2013						
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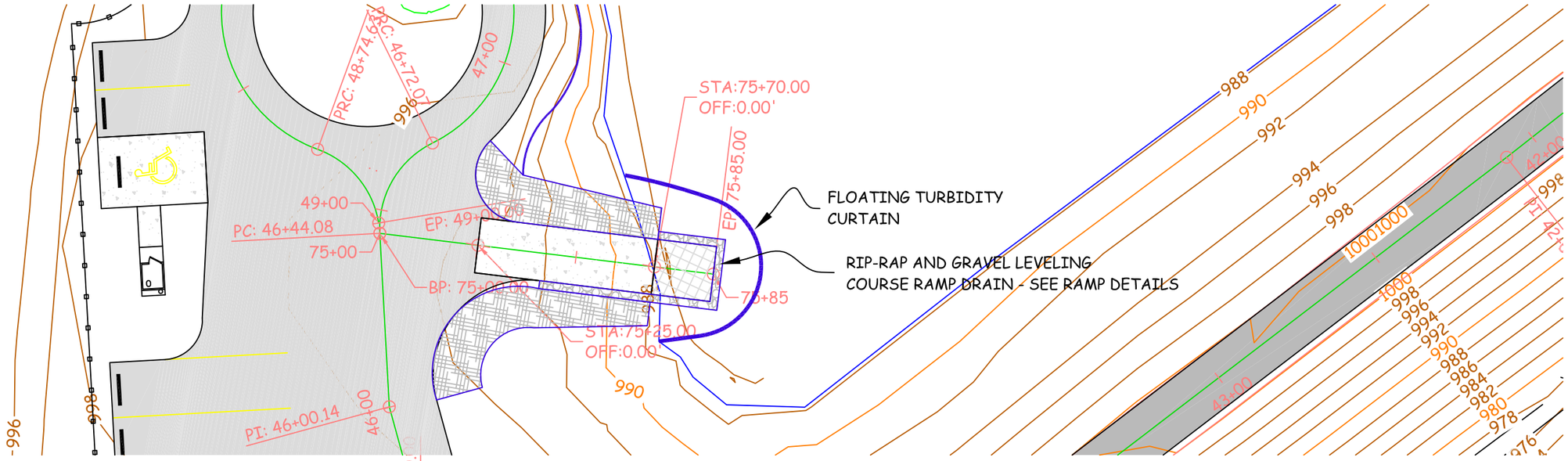

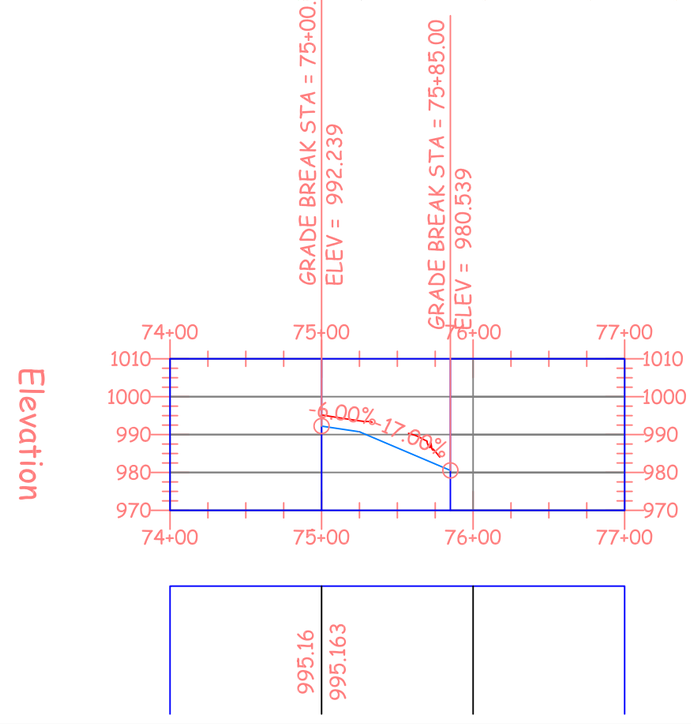

CONTROL POINTS

Description	Northing	Easting	Elevation
CP	10,000.00	5,000.00	1,000.00
CP1	10,000.02	5,523.36	1,000.01
CP2	9,624.48	5,669.86	995.42
CP3	9,567.65	5,511.51	963.55
CP4	9,575.27	5,533.75	968.03
CP5	9,530.13	6,060.26	1006.11
CP6	9,707.13	7,074.65	1027.38

Scale:

0 20' 40'

LEGEND

Existing Features

Control Point (CP2)

Proposed Features

- Gravel Surfacing Base over Sub Base
- Gravel Surfacing Base Surface
- Gravel Surfacing Sub Base Surface
- Cast-In-Place Concrete Ramp / Pad / Walk
- Push-In Concrete Ramp
- Erosion Control Straw Blanket
- Post and Cable Barrier
- Precast Concrete Parking Curb
- Sign and Posts (Panels Furnished by FWP

B. Mangum	6/13/2013				
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Montana Fish, Wildlife & Parks

Bailey Reservoir FAS
Ramp Plan and Profile

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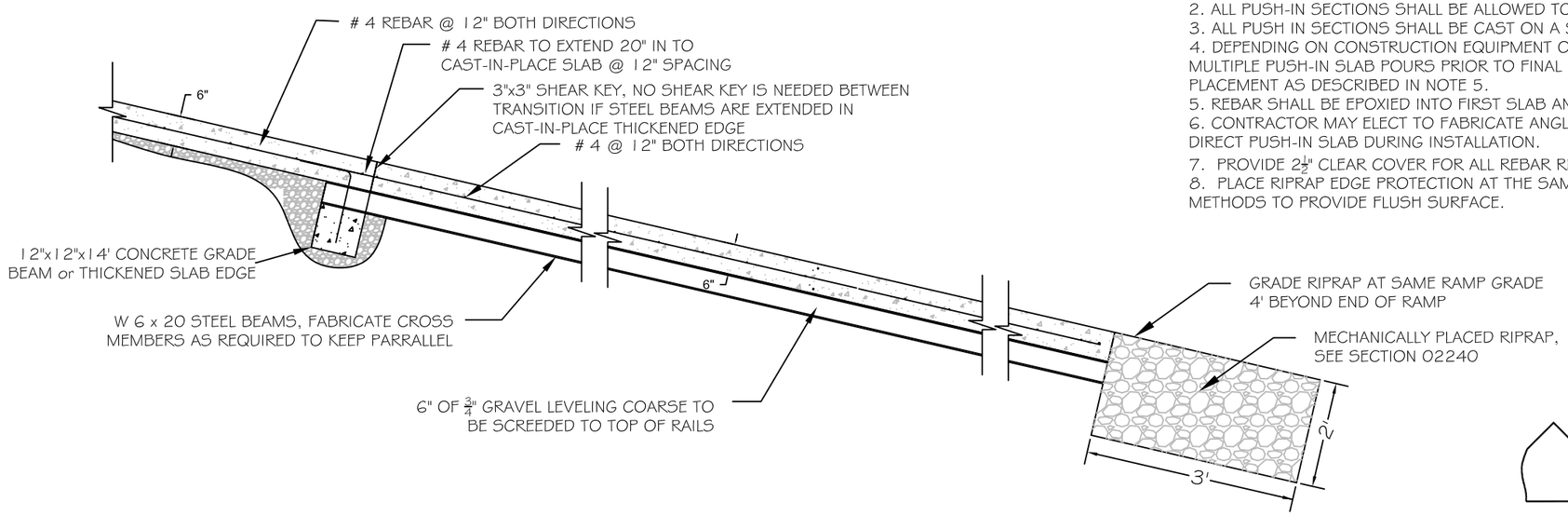
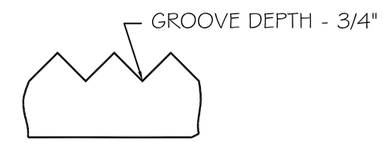
NOTES:

1. ALL PUSH-IN SLAB SECTIONS SHALL BE CAST AT APPROXIMATELY THE SAME SLOPE AS THEY ARE TO BE PLACED.
2. ALL PUSH-IN SECTIONS SHALL BE ALLOWED TO CURE FOR A MINIMUM OF 14 DAYS.
3. ALL PUSH IN SECTIONS SHALL BE CAST ON A SMOOTH 4" LAYER OF COMPACTED AGGREGATE.
4. DEPENDING ON CONSTRUCTION EQUIPMENT OR WORKING AREA LIMITATIONS, CONTRACTOR MAY HAVE TO MAKE MULTIPLE PUSH-IN SLAB POURS PRIOR TO FINAL INSTALLATION. ALL SEPARATE POURS WILL REQUIRE REBAR PLACEMENT AS DESCRIBED IN NOTE 5.
5. REBAR SHALL BE EPOXIED INTO FIRST SLAB AND EXTENDED A MINIMUM OF 20" INTO SUBSEQUENT SLAB(S).
6. CONTRACTOR MAY ELECT TO FABRICATE ANGLE IRON ALONG EDGE OF OUTER STEEL SUPPORT BEAMS TO HELP DIRECT PUSH-IN SLAB DURING INSTALLATION.
7. PROVIDE $2\frac{1}{2}$" CLEAR COVER FOR ALL REBAR REINFORCEMENT.
8. PLACE RIPRAP EDGE PROTECTION AT THE SAME GRADE OF PUSH-IN SLAB. KEY IN RIPRAP BY MECHANICAL TAMPING METHODS TO PROVIDE FLUSH SURFACE.

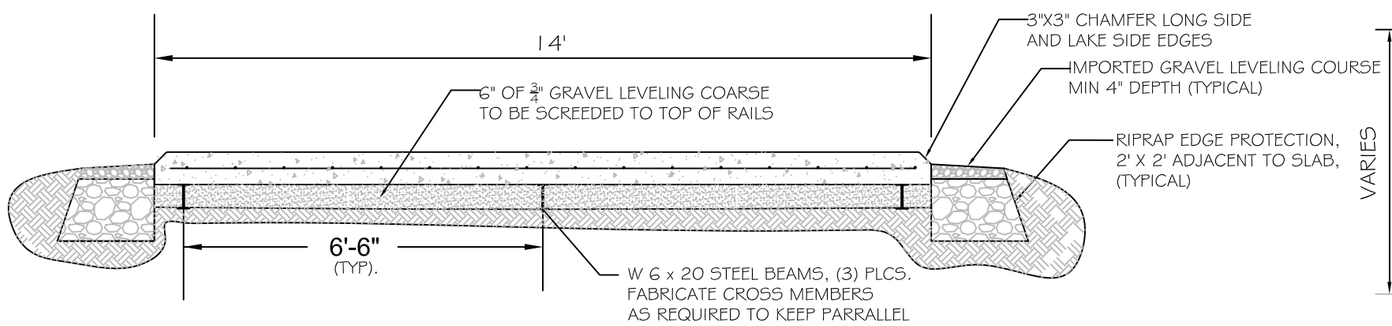


PUSH-IN CONCRETE SLAB RAMP DETAIL
ELEVATION VIEW

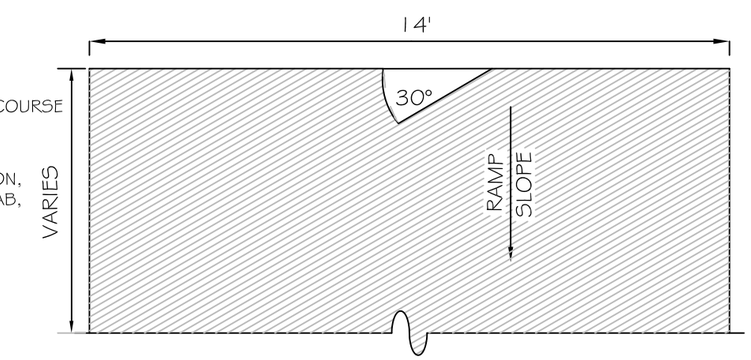


NOTE:

1. MFW&P WILL PROVIDE GROOVING TOOL, SEE SPECIFICATION, SECTION 03310.



PUSH-IN CONCRETE SLAB RAMP DETAIL
SECTION VIEW



GROOVED SURFACE
PLAN VIEW

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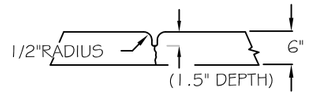
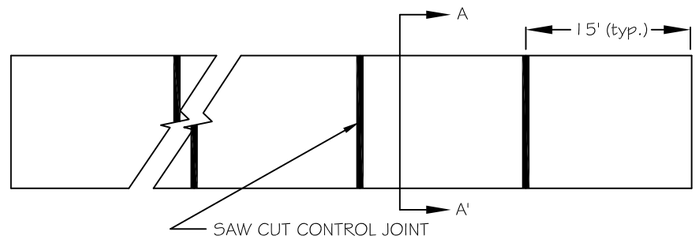


CONTRACTION CONTROL JOINT DETAIL

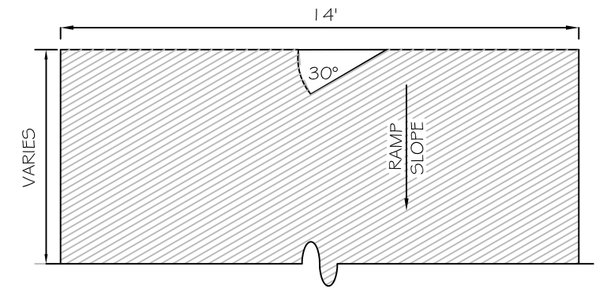


NOTE:

1. CONCRETE FOR NEW RAMP IS A 3/4" MINUS; 6-1/2 BAG MIX WITH A MIN 28 DAY STRENGTH OF 4000 PSI, REINFORCED WITH # 4 BARS @ 12" SPACING BOTH DIRECTIONS.
2. SCREED CONCRETE FOLLOWED BY GROOVING THE SURFACE.
3. SAW CUT CONTRACTION JOINTS AFTER RAMP IS GROOVED.

SLAB CONTROL JOINT DETAIL

PLAN VIEW

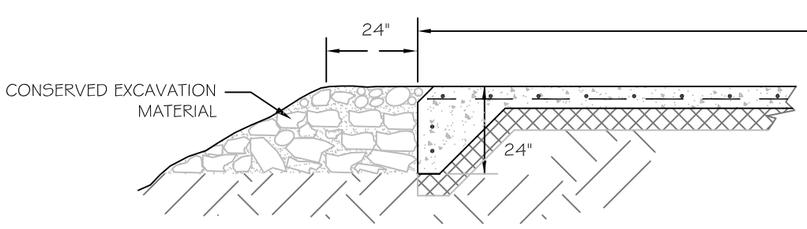


GROOVED SURFACE PLAN

PLAN VIEW

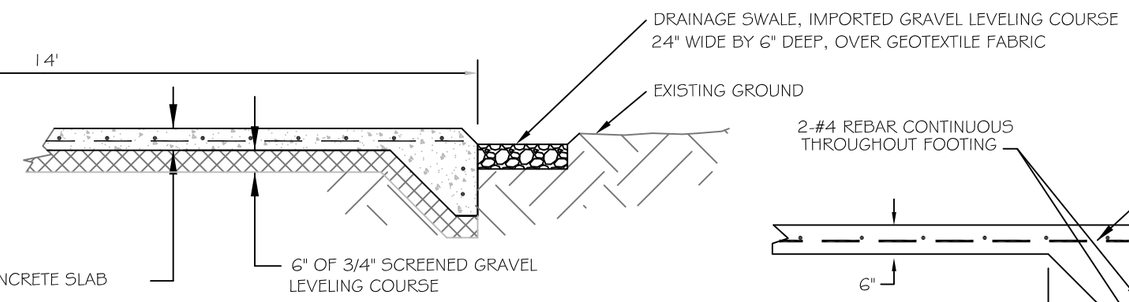
NOTE:

1. MFW&P WILL PROVIDE GROOVING TOOL



DETAIL A

TO BE USED WHEN:
SURFACE OF RAMP IS ABOVE EXISTING GROUND TO PROTECT AGAINST EROSION.

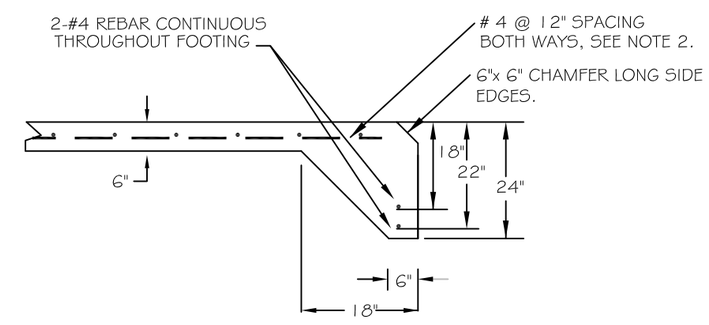


DETAIL B

TO BE USED WHEN:
SURFACE OF RAMP IS AT EXISTING GROUND GRADE.

CAST-IN-PLACE CONCRETE

SECTION A-A'



THICKENED EDGE DETAIL

FOR CAST IN PLACE RAMP

NOTES.

1. CONTINUE THICKENED EDGE FOOTING AROUND ENTIRE PERIMETER OF CAST-IN-PLACE CONCRETE.
2. EXTEND AND EXPOXY #4 BARS MIN 20" (12" O.C.) IN EXISTING CONCRETE CONNECTIONS. PROVIDE EXPANSION JOINT MATERIAL ALONG COLD JOINT CONNECTIONS.
3. NO CHAMFER ALONG SIDEWALK/BULKHEAD/EXISTING CONCRETE CONNECTIONS.
4. PROVIDE $2\frac{1}{2}$" CLEAR COVER FOR ALL REBAR REINFORCEMENT.

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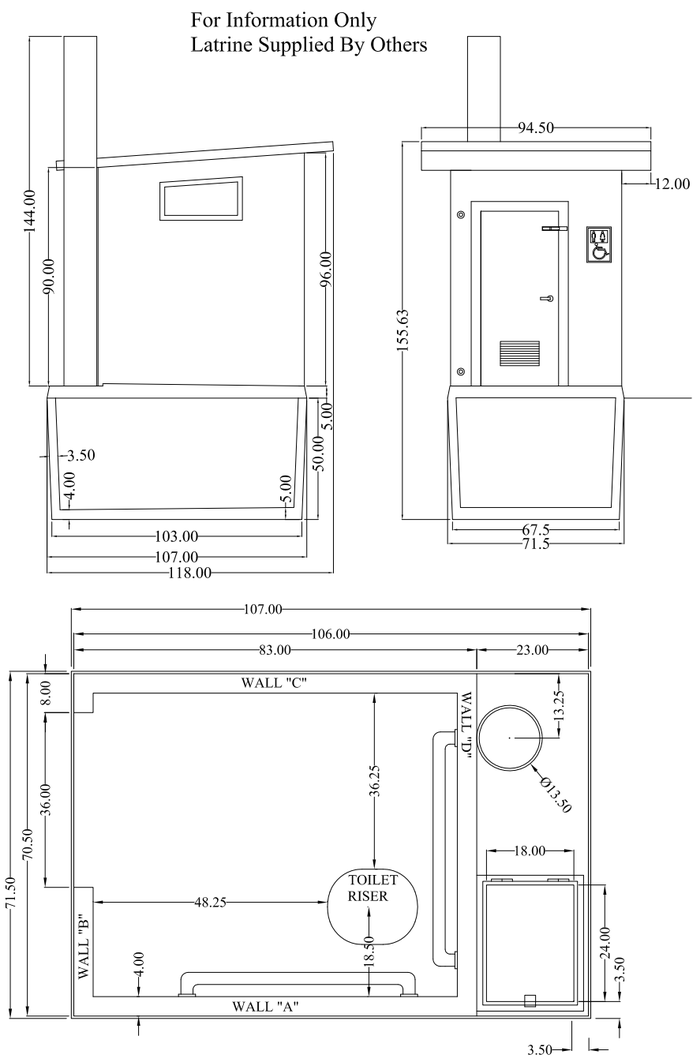
Bailey Reservoir FAS
Cast-In-Place Ramp Details



GENERAL

All dimensions are in inches, unless otherwise noted.

INSTALLATION

General Installation involves excavation, leveling bottom of hole with drain aggregate, installing latrine, backfilling around latrine and landscaping.

EXCAVATION

A. Excavate subsoil to a point 12 inches deeper than required for latrine installation.

1. Depth of excavation is 50 inches for the precast latrines manufactured by Flathead Concrete.

2. Finish floor elevation shall be a minimum of 4-6 inches above natural grade measured at the front entrance.

B. Minimize over excavation. Stockpile excavated material for later backfilling and landscaping.

C. Compact bottom of hole with three passes of whacker or skid plate compaction device.

LEVELING

A. Use a well-graded gravel and place enough in bottom of hole such that when compacted, it will be 12 inches deep.

B. Compact leveling material with three passes of compaction device.

C. Level base for installation of latrine.

LATRINE INSTALLATION

A. The precast latrine will be set by the supplier.

B. Insure that latrine sits level and plumb when done installing.

BACKFILLING

A. Place a foot of well-graded gravel around base of vault and compact.

B. Place in successive 8 inch layers material previously excavated from hole and compact.
1. Remove rocks larger than 6 inches in diameter from the fill.

2. Remove branches, roots and other or organic debris in fill.

LANDSCAPING

A. Slope grade away from latrine.

B. Blend fill slope into surrounding terrain.

C. Remove surplus fill material.

D. Remove soil to a depth of 2 inches beneath location for entrance slab and compact.

E. Place two inches of pea gravel for concrete entrance slab bedding, level and compact.

B. Mangum	6/13/2013					Montana Fish, Wildlife & Parks	Bailey Reservoir FAS Latrine Installation Details
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