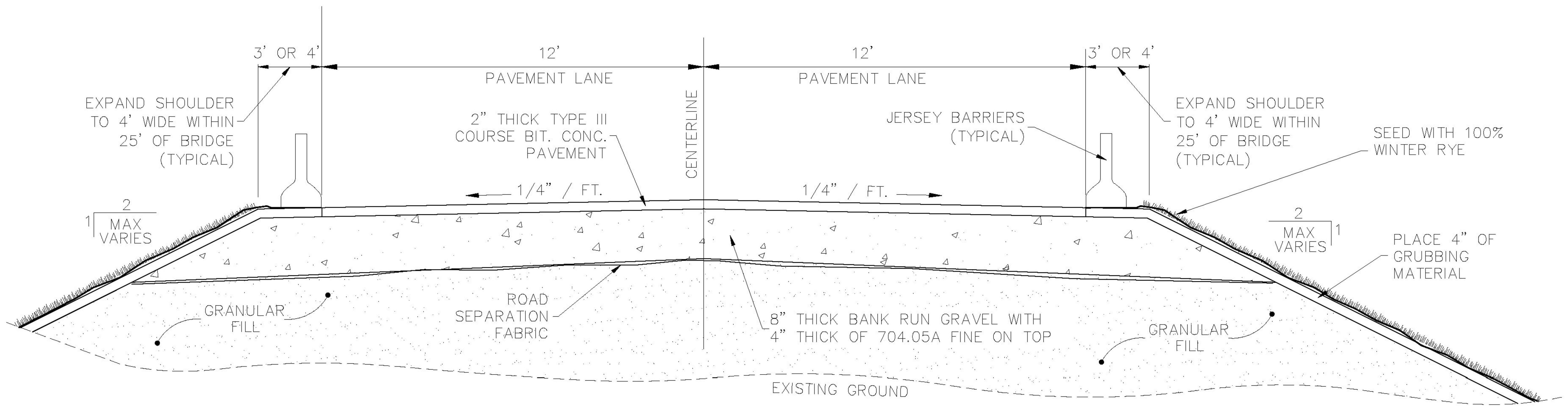


1. INSTALL TOPSOIL, SEED AND EROSION MATTING ON SIDE SLOPES.
2. INSPECT SIDE SLOPES REGULARLY DURING AND AFTER RAINFALL EVENTS TO ENSURE NO SCOURING UNDER MATTING.

TEMPORARY BYPASS ROAD CROSS-SECTION

NTS

Basis of Design:

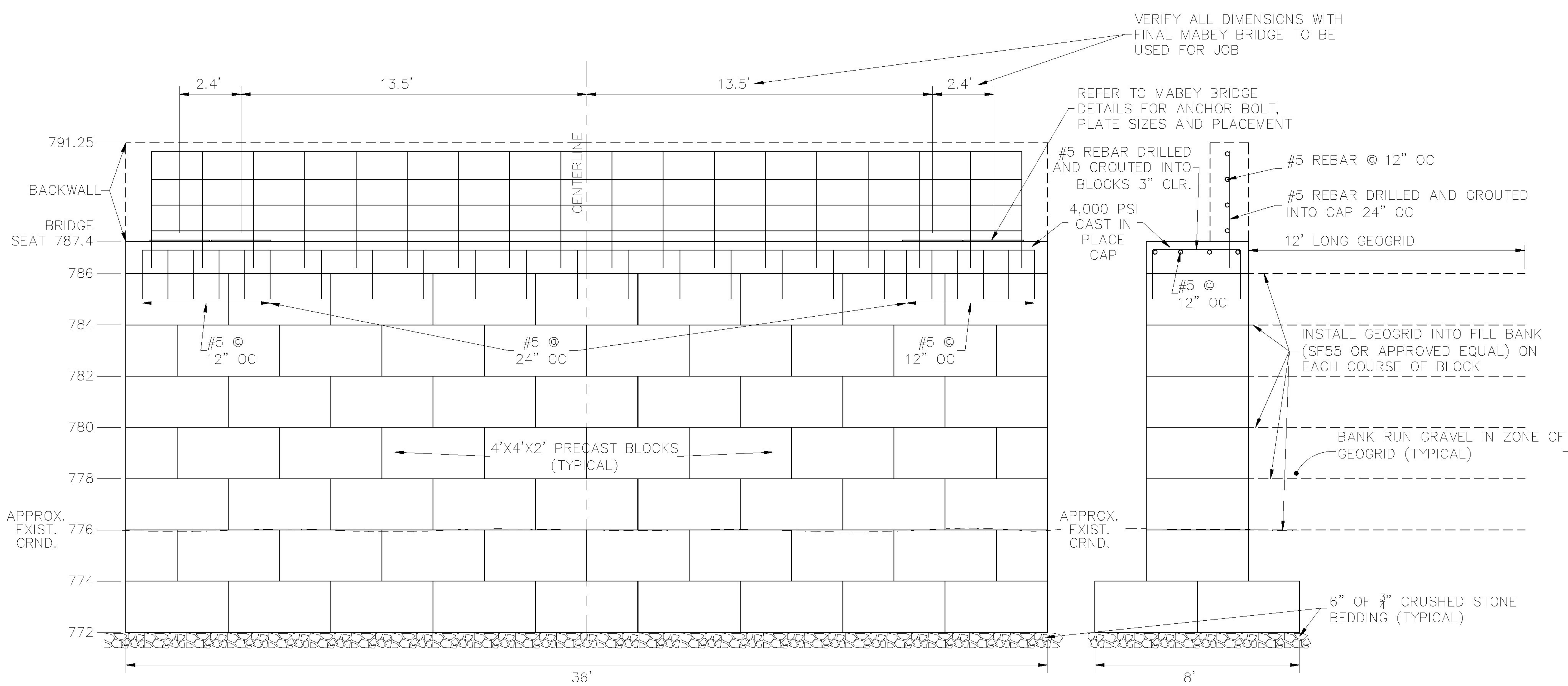
1. Live Load Criteria;
   - 1.1 HS-20 Loading
     - 1.1.1 8 kip front axle (6 ft. wheel spacing)
     - 1.1.2 32 kip rear axle (6 ft. wheel spacing) 14 feet back, then 14 ft. on center
     - 1.1.3 Wheel area 10' in direction of travel, 20' perpendicular to travel
   - 1.2 100 psf - Construction live load
2. Dead Loads
   - 2.1 Self weight
3. Temporary foundation bearing capacity - 3,000 psf on 6" layer of crushed stone
4. Temporary structure to be used from October 2012 to October 2013.

Reinforcing Notes:

1. Reinforcing steel: ASTM A615, 60 KSI yield grade; Deformed billete steel bars.
2. Stirrup steel: ASTM A82.
3. Welded steel wire fabric: ASTM A185 plain type: In flat sheets.
4. Tie wire: Minimum 16 gage annealed type.
5. Chairs, bolsters, bar supports, spacers: Sized and shaped for strength and support of reinforcement during concrete placement.
6. Maintain a minimum of 2 inches concrete cover around reinforcing.

Cast in Place Concrete Notes:

1. Perform work in accordance with ACI 30I standards and recommended practices.
2. Acquire cement and aggregate from same source for all work.
3. Conform to ACI 305R when concreting during hot weather.
4. Conform to ACI 306R when concreting during cold weather.
5. Cement: ASTM C150, Type I, Gray-Normal; Do not change source of manufacturer of cement during the course of the work.
6. Fine and coarse aggregaates: ASTM C33.
7. Water: Clean, potable and not detrimental to concrete.
8. Air entrainment: ASTM C260.
9. Chemical: ASTM C494 Type A - water reducing.
10. Non-shrink grout: Premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents; Capable of developing minimum compressive strength of 2,400 psi in 48 hours and 7,000 psi in 28 days: Manufactured by five star products, Inc. or approved equivalent.
11. Epoxy injection system: Two-component injectable adhesive as manufactered by Hilti or approved equivalent.
12. Mix concrete in accordance with ACI 304. Deliver concrete in accordance with ASTM C94.
13. Concrete mixtures shall consist of the appropriate proportions of portland cement, water, coarse and fine aggregate, air entraining agent and water reducing agent for the intended application.
14. Concrete mix for pre-cast blocks and abutment caps:
    - 14.1 4,000 psi compressive strength at 28 days
    - 14.2 2-4 inch slump before addition of water reducer, 6-8 inches after the addition of water reducer
    - 14.3 5-7% Air Entrainment
15. Use accelerating admixtures in cold weather only when approved by architect/engineer. Use of admixtures will not relax cold weather placement requirements.
16. Use of calcium chloride shall not be permitted.
17. Use set retarding admixtures during hot weather only when approved by architect/engineer.
18. Place concrete in accordance with ACI 30I, ACI 318 and ACI 304.
19. Ensure reinforcement, inserts, embedded parts, formed expansion and contraction joints are not disturbed during concrete placement.
20. Do not interrupt successive placement; Do not permit cold joints to occur.
21. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures and mechanical injury.
22. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.
23. Cure floor surfaces in accordance with ACI 305, ACI 306 and ACI 308.

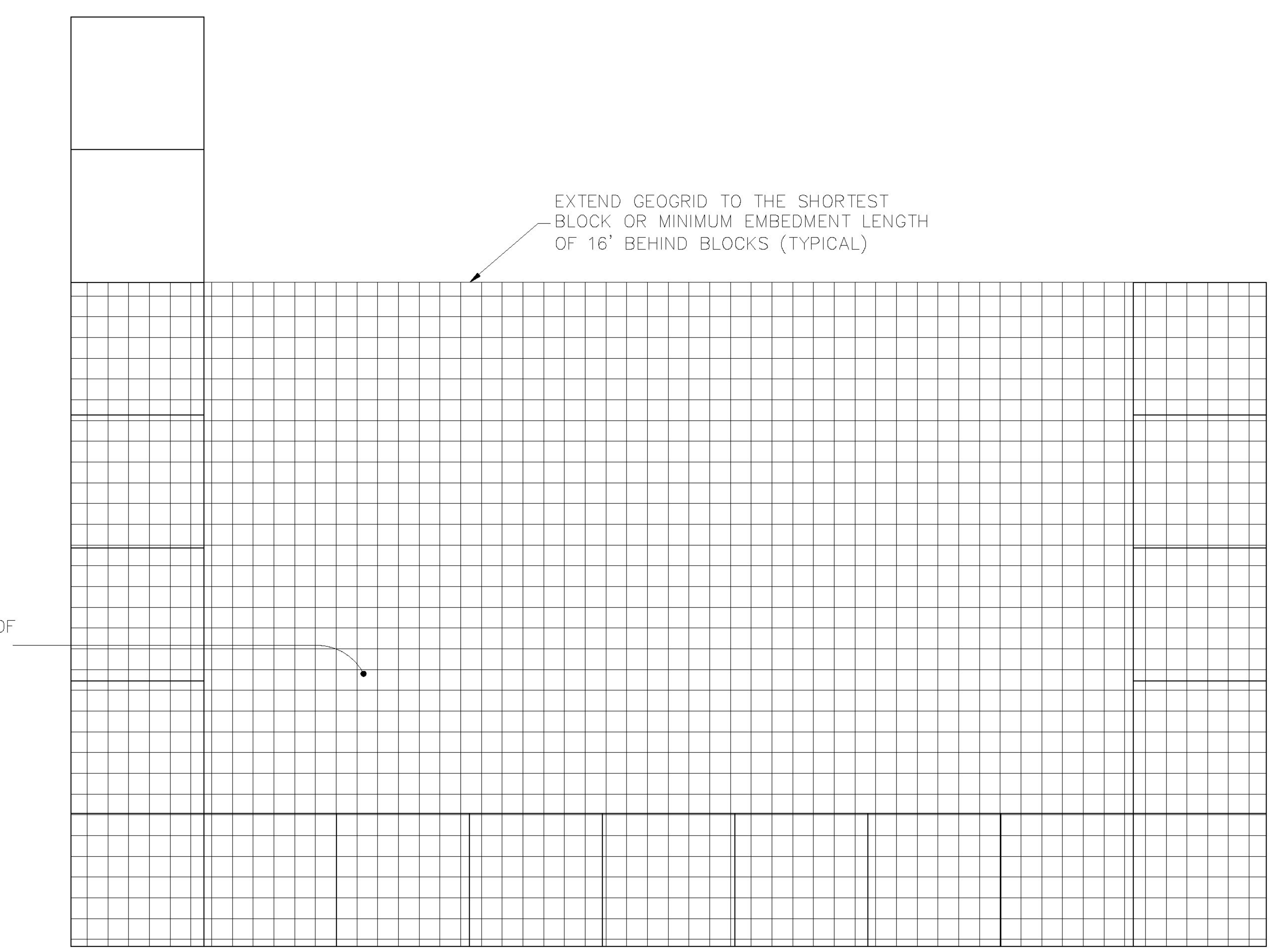


TEMPORARY BYPASS FOUNDATION DETAILS

NTS

NOTE:

1. TYPICAL NORTHERN ABUTMENT
2. SOUTHERN ABUTMENT BOTTOM OF BLOCK ELEVATION = 778.0



TOP GEOGRID VIEW

NTS

Vermont Agency of Transportation
RECEIVED
ON: November 15, 2012
and Checked for
CONFORMANCE
BY: J. Lacroix DATE: 11/16/12

STATE OF VERMONT
No. 8932
Civil
LICENSED
PROFESSIONAL ENGINEER
REVISED 11/08/12

TEMPORARY BRIDGE ABUTMENT DETAILS

PROJECT NAME:	WARREN – BYPASS BRIDGE
PROJECT NUMBER:	BRF 013-4 (14)

FILE NAME: WAITSFIELD BRIDGE	PLOT DATE: 27-JUL 2012
PROJECT LEADER: J. LACROIX	DRAWN BY: G. ROXES
DESIGNED BY: U. STANLEY	CHECKED BY: M. EVANSMONGEON
PLOT FILE: WAITSFIELD BRIDGE	SHEET 33C OF 19

ER-2.DWG