PROJECT SPECIFICATIONS

1. Final construction plans must be submitted to the Engineer for review prior to commencement of construction. These plans must include all necessary details and must be approved by the Engineer prior to construction.

2. These plans were prepared based on information provided by others as follows:

3. Report deficiencies between contract information and actual conditions as soon as possible to ensure compliance with the contract requirements. No deviation is acceptable for inaccurate information.

4. The following design assumptions were made:

5. Select backfill between units:

6. Uniform subgrade: 200 PSF

7. The granular material for the drainage blanket shall meet the following requirements:

8. Backfill grading:

9. Cover: 1" 2B Steam Cured, 2B Smoothface, 2B Smoothface

10. Cover: 1" 2B Steam Cured, 2B Smoothface

11. Construction verification of the wall installation by an engineering firm shall be performed by a knowledgeable, experienced firm with whom the Engineer can perform the verification as requested but must include daily safety inspections.
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

I CERTIFY THAT ALL ASSUMPTIONS MADE IN DESIGNING THIS WALL HAVE BEEN VALIDATED THROUGH CONSTRUCTION DETAILS, SPECIAL NOTES AND / OR INSTRUCTIONS TO THE FABRICATOR, ERECTOR AND CONTRACTOR. CERTIFIED WITH RESPECT TO BEARING, SLIDING, INTERNAL STABILITY AND OVERTURNING OF THE GRAVIX STRUCTURE ONLY.

STATE OF [NAME]
DEPARTMENT OF TRANSPORTATION

GRAVIX UNITS

GRAVIX STANDARD UNIT
GRAVIX LEVELING UNIT HALF HEIGHT
GRAVIX STANDARD UNIT BARRIER FACE OPTION
GRAVIX TOP UNIT BARRIER FACE OPTION
GRAVIX LEVELING UNIT
GRAVIX TRAFFIC BARRIER UNIT
GRAVIX MSE TRAFFIC BARRIER UNIT
GRAVIX TOP UNIT

[PROJECT NAME]  [PROJECT LOCATION]
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

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DEPARTMENT OF TRANSPORTATION
STATE OF [NAME]

TYPICAL CUT AND FILL CROSS SECTIONS

TYPICAL CUT CROSS SECTION

TYPICAL FILL CROSS SECTION

GRAVIX PRECAST WALL SYSTEM

STATE OF [NAME]
DEPARTMENT OF TRANSPORTATION
[PROJECT NAME]
[PROJECT LOCATION]
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

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TEMPORARY SHOE CUT TO BE ATTACHED BY CONTRACTOR PER PROJECT SPECIFICATIONS.

TYPICAL CUT CROSS SECTION WITH EARTH ANCHORED FOOTING
OPTIONAL — WHERE REQUIRED IN DESIGN

TYPICAL BATTERED CUT CROSS SECTION
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

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DEPARTMENT OF TRANSPORTATION

STATE OF [NAME]

ELEVATION VIEW WITH STANDARD UNIT BARRIER FACE OPTION AND TOP UNIT

[PROJECT NAME]

[PROJECT LOCATION]
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

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DEPARTMENT OF TRANSPORTATION

STATE OF [NAME]

PROJECT LOCATION

TOP UNIT SCHEDULE
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STATE OF [NAME] DEPARTMENT OF TRANSPORTATION (PROJECT NAME) (PROJECT LOCATION)

ELEVATION VIEW WITH TRAFFIC BARRIER IN VERTICAL CURVE

FRONT FACE ELEVATION VIEW IN VERTICAL CURVE – 1,000 FT. RADIUS (EXAMPLE WALL)

SCALE 1/4" = 1'-0"
CONSTRUCTION SPECIFICATIONS

1. CONSTRUCTION SPECIFICATIONS
2. INSTALLATION OF THE GRAVIX FRM WALL SYSTEM
   a. All members of the contractor shall be responsible for the installation of the
      GRAVIX FRM WALL SYSTEM.
   b. The GRAVIX FRM WALL SYSTEM shall be installed in accordance with the
      instructions provided by the manufacturer.
   c. The GRAVIX FRM WALL SYSTEM shall be installed in accordance with the
      instructions provided by the manufacturer.
   d. The GRAVIX FRM WALL SYSTEM shall be installed in accordance with the
      instructions provided by the manufacturer.
   e. The GRAVIX FRM WALL SYSTEM shall be installed in accordance with the
      instructions provided by the manufacturer.
   f. The GRAVIX FRM WALL SYSTEM shall be installed in accordance with the
      instructions provided by the manufacturer.

3. GRAVIX FRM WALL SYSTEM INSTALLATION
   a. The GRAVIX FRM WALL SYSTEM shall be installed in accordance with the
      instructions provided by the manufacturer.
   b. The GRAVIX FRM WALL SYSTEM shall be installed in accordance with the
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STATE OF [NAME]
DEPARTMENT OF TRANSPORTATION

PROJECT NAME
PROJECT LOCATION

CONSTRUCTION SPECIFICATIONS

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GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

I CERTIFY THAT ALL ASSUMPTIONS MADE IN DESIGNING THIS WALL HAVE BEEN VALIDATED THROUGH CONSTRUCTION DETAILS, SPECIAL NOTES AND / OR INSTRUCTIONS TO THE FABRICATOR, ERECTOR AND CONTRACTOR. CERTIFIED WITH RESPECT TO BEARING, SLIDING, INTERNAL STABILITY AND OVERTURNING OF THE GRAVIX STRUCTURE ONLY.

DEPARTMENT OF TRANSPORTATION
STATE OF [NAME]

[PROJECT LOCATION]
[PROJECT NAME]
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DEPARTMENT OF TRANSPORTATION
STATE OF [NAME]

DETAILS ALIGNMENT SHIMMING

HORIZONTAL ALIGNMENT SHIMMING

SCALE 1/4" = 1'-0"

VERTICAL ALIGNMENT SHIMMING

SCALE NOT TO SCALE
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

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DEPARTMENT OF TRANSPORTATION
STATE OF [NAME]

DETAILS CONCRETE SWALE, FENCE AND COPING OPTION

CAST-IN-PLACE COPING (OPTION)
SCALE 1" = 1'-0"

FENCE & PAVED DITCH
SCALE 1" = 1'-0"
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

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DETAILS PIPE HEADWALL
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

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DEPARTMENT OF TRANSPORTATION

STATE OF [NAME]

[PROJECT NAME]

[PROJECT LOCATION]

OUTSIDE 90° CORNER DETAIL
SCALE 1/4" = 1'-0"

INSIDE 90° CORNER DETAIL
SCALE 1/4" = 1'-0"

OUTSIDE 90° CORNER 3D ISOMETRIC
SCALE 1/4" = 1'-0"
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

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DEPARTMENT OF TRANSPORTATION
STATE OF [NAME]

DETAILS 90 DEGREE FACE LAYOUT

[PROJECT NAME]
[PROJECT LOCATION]
GRAVIX is a licensed product of Earth Wall Products, LLC.

I certify that all assumptions made in designing this wall have been validated through construction details, special notes and/or instructions to the fabricator, erector and contractor. Certified with respect to bearing, sliding, internal stability and overturning of the GRAVIX structure only.

Details radius.
I CERTIFY THAT ALL ASSUMPTIONS MADE IN DESIGNING THIS WALL HAVE BEEN VALIDATED THROUGH CONSTRUCTION DETAILS, SPECIAL NOTES AND / OR INSTRUCTIONS TO THE FABRICATOR, ERECTOR AND CONTRACTOR. CERTIFIED WITH RESPECT TO BEARING, SLIDING, INTERNAL STABILITY AND OVERTURNING OF THE GRAVIX STRUCTURE ONLY.
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TRAFFIC BARRIER ON TOP OF MSE WALL INSTALLATION
MANUFACTURE SPECIFICATIONS

1. Sandblasted units cannot be used until construction drawings are approved.

2. Grave units shall be fabricated at an approved plant.

3. Get the on-site inspection before the shipment.

4. Access to the work area shall be determined in accordance with the inspection and installation instructions for the project.

5. Acceptance of the product design will be determined in accordance with the inspection and installation instructions for the project.

6. Grave units shall be constructed in a manner that will satisfy the production of uniform units with specified manufacturing tolerances.

7. The surface shall be coated with a waterproof membrane, and not allowed to be damaged.

8. All flat surfaces shall be protected with a waterproof membrane, and not allowed to be damaged.

9. Acceptable tolerances for grave units are as follows:

   - Face side and flat side (25 mm)
   - Flat side (25 mm)
   - Top side (25 mm)
   - Edges (25 mm)
   - Face side (25 mm)
   - Flat side (25 mm)
   - Top side (25 mm)
   - Edges (25 mm)

10. All flat surfaces shall be protected with a waterproof membrane, and not allowed to be damaged.

11. Handle, store, and ship all units in such a manner as to avoid cracking and fractured edges.

12. Before shipment, examine all surfaces of the product grave units. If any surface defects are not permissible, refusal to all units is mandatory.

13. Grave units shall be certified for the following:

   - Fire rating (Class A)
   - Slip rating (Class A)
   - Overturing rating (Class A)
   - Internal stability (Class A)

14. Grave units shall be certified with respect to bearing, sliding, internal stability, and overturning of the grave structure only.

15. Grave units shall be certified with respect to the bearing, sliding, internal stability, and overturning of the grave structure only.

16. Concrete shall be placed in a manner that will prevent loss of moisture and air entrapment, and sun exposure. Extra measures may be required to prevent cracking of the concrete.

17. Maxwell base units must be used as follows:

   - Concrete shall be placed in a manner that will prevent loss of moisture and air entrapment, and sun exposure. Extra measures may be required to prevent cracking of the concrete.

18. All test reports must be kept on file for a minimum of 3 years, and should be collected upon every load delivered.

19. All test reports must be kept on file for a minimum of 3 years, and should be collected upon every load delivered.

20. All test reports must be kept on file for a minimum of 3 years, and should be collected upon every load delivered.

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26. All test reports must be kept on file for a minimum of 3 years, and should be collected upon every load delivered.

27. All test reports must be kept on file for a minimum of 3 years, and should be collected upon every load delivered.

STATE OF [NAME]

DEPARTMENT OF TRANSPORTATION

PROJECT NAME

PROJECT LOCATION

MANUFACTURE SPECIFICATIONS
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

I CERTIFY THAT ALL ASSUMPTIONS MADE IN DESIGNING THIS WALL HAVE BEEN VALIDATED THROUGH CONSTRUCTION DETAILS, SPECIAL NOTES AND / OR INSTRUCTIONS TO THE FABRICATOR, ERECTOR AND CONTRACTOR. CERTIFIED WITH RESPECT TO BEARING, SLIDING, INTERNAL STABILITY AND OVERTURNING OF THE GRAVIX STRUCTURE ONLY.

STATE OF [NAME]
DEPARTMENT OF TRANSPORTATION

STANDARD UNIT
(14 TO 24 FT. STEM UNITS)
DIMENSIONS
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

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NOTE:
2. THE VIEWS ARE DRAWN FOR A 14 FT STEM UNIT ADJUST STEM IN 2 FT INCREMENTS FOR 16, 18, 20, 22, AND 24 FT STEMS ACCORDINGLY.
3. THE TWO 7/8" BARS SHOULD BE 17" ON CENTER FOR EACH UNIT.
GRAVIX  IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

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DEPARTMENT OF TRANSPORTATION
STATE OF [NAME]

GRAVIX DOT Precast Wall System

[PROJECT LOCATION]

[PROJECT NAME]

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DIMENSIONS
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

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MADE IN DESIGNING THIS WALL
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CONSTRUCTION DETAILS, SPECIAL
NOTES AND / OR INSTRUCTIONS
TO THE FABRICATOR, ERECTOR
AND CONTRACTOR. CERTIFIED
WITH RESPECT TO BEARING,
SLIDING, INTERNAL STABILITY AND
OVERTURNING OF THE GRAVIX
STRUCTURE ONLY.

DEPARTMENT OF TRANSPORTATION
STATE OF [NAME]

STANDARD UNIT
BARRIER FACE OPTION
REINFORCEMENT LAYOUT
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

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STATE OF [NAME]  DEPARTMENT OF TRANSPORTATION

[PROJECT NAME]  [PROJECT LOCATION]

36" TRAFFIC BARRIER UNIT
DIMENSIONS
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REINFORCEMENT LAYOUT

36" TRAFFIC BARRIER UNIT

[TOPOGRAPHIC VIEW]
SCALE: 1" = 1'-0"

36" TRAFFIC BARRIER UNIT

[SIDE VIEW]
SCALE: 1" = 1'-0"

36" TRAFFIC BARRIER UNIT

[FRONT VIEW]
SCALE: 1" = 1'-0"
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STATE OF [NAME]
DEPARTMENT OF TRANSPORTATION

42" TRAFFIC BARRIER UNIT

DIMENSIONS

GRAVIX DOT Precast Wall System
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42" TRAFFIC BARRIER UNIT

REBAR DETAILS

NOTE: DIMENSIONS AND ENGINEERING ARE INTERCHANGEABLE
I CERTIFY THAT ALL ASSUMPTIONS MADE IN DESIGNING THIS WALL HAVE BEEN VALIDATED THROUGH CONSTRUCTION DETAILS, SPECIAL NOTES AND/OR INSTRUCTIONS TO THE FABRICATOR, ERECTOR AND CONTRACTOR. CERTIFIED WITH RESPECT TO BEARING, SLIDING, INTERNAL STABILITY AND OVERTURNING OF THE GRAVIX STRUCTURE ONLY.

DEPARTMENT OF TRANSPORTATION
STATE OF [NAME]

36" MSE TRAFFIC BARRIER UNIT
DIMENSIONS
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

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STATE OF [NAME]  
DEPARTMENT OF TRANSPORTATION  
36" MSE TRAFFIC BARRIER UNIT  

DIMENSIONS
I CERTIFY THAT ALL ASSUMPTIONS MADE IN DESIGNING THIS WALL HAVE BEEN VALIDATED THROUGH CONSTRUCTION DETAILS, SPECIAL NOTES AND / OR INSTRUCTIONS TO THE FABRICATOR, ERECTOR AND CONTRACTOR. CERTIFIED WITH RESPECT TO BEARING, SLIDING, INTERNAL STABILITY AND OVERTURNING OF THE GRAVIX STRUCTURE ONLY.

[PROJECT LOCATION]

GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

36" MSE TRAFFIC BARRIER UNIT

[TOP VIEW]

SCALE 1" = 1'-0"

36" MSE TRAFFIC BARRIER UNIT

[SIDE VIEW]

SCALE 1" = 1'-0"

36" MSE TRAFFIC BARRIER UNIT

[REAR VIEW]

SCALE 1" = 1'-0"

DEPARTMENT OF TRANSPORTATION

STATE OF [NAME]

36" MSE TRAFFIC BARRIER UNIT

REINFORCEMENT LAYOUT

[PROJECT NAME]

[PROJECT LOCATION]
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

I CERTIFY THAT ALL ASSUMPTIONS MADE IN DESIGNING THIS WALL HAVE BEEN VALIDATED THROUGH CONSTRUCTION DETAILS, SPECIAL NOTES AND / OR INSTRUCTIONS TO THE FABRICATOR, ERECTOR AND CONTRACTOR. CERTIFIED WITH RESPECT TO BEARING, SLIDING, INTERNAL STABILITY AND OVERTURNING OF THE GRAVIX STRUCTURE ONLY.
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Department of Transportation
State of [Name]

42" MSE Traffic Barrier Unit

[Project Name]
[Project Location]
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REINFORCEMENT NOTES:
MINIMUM CLEARANCE TO EDGE - 2"
ALL STEEL REBAR SHOWN TO BE 60 KSI #4.
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DEPARTMENT OF TRANSPORTATION
STATE OF [NAME]

TOP UNIT
REINFORCEMENT LAYOUT

REINFORCEMENT NOTES:
MINIMUM CLEARANCE TO EDGE = 2" ALL STEEL REBAR SHOWN TO BE 60 KSI #4.

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DEPARTMENT OF TRANSPORTATION

[PROJECT NAME]

[PROJECT LOCATION]
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DEPARTMENT OF TRANSPORTATION
STATE OF [NAME]

TOP UNIT WITH BARRIER FACE
REINFORCEMENT LAYOUT

REINFORCEMENT NOTES:
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DEPARTMENT OF TRANSPORTATION

STATE OF [NAME]

[PROJECT NAME]

REINFORCEMENT NOTES:

MINIMUM CLEARANCE TO EDGE = 2"

ALL STEEL REBAR ShOWN TO BE 60 KSI #4.

TOP UNIT LESS THAN 2' HEIGHT WITH DRAINAGE SWALE
REINFORCEMENT LAYOUT
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LEVELING UNIT - 4 FT HEIGHT
REINFORCEMENT LAYOUT
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STATE OF [NAME]
DEPARTMENT OF TRANSPORTATION
LEVELING UNIT - 4 FT HEIGHT

REBAR DETAILS
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LEVELING UNIT - 2 FT HEIGHT

DIMENSIONS
GRAVIX IS A LICENSED PRODUCT OF EARTH WALL PRODUCTS, LLC

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STATE OF (NAME)
DEPARTMENT OF TRANSPORTATION
PROJECT NAME
PROJECT LOCATION
LEVELING UNIT - 2 FT HEIGHT
REBAR DETAILS
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DEPARTMENT OF TRANSPORTATION

TRAFFIC BARRIER UNIT

IN HORIZONTAL RADIUS DETAIL
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EXAMPLE CONCAVE VERTICAL CURVE LEVELING UNIT ADJUSTMENT FOR 1,000 FEET RADIUS (CONTINUED)
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DEPARTMENT OF TRANSPORTATION
STATE OF [NAME]

EXAMPLE CONVEX VERTICAL CURVE UNIT ADJUSTMENT FOR 1,000 FEET RADIUS
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DEPARTMENT OF TRANSPORTATION

EXAMPLE CONVEX VERTICAL CURVE UNIT ADJUSTMENT FOR 1,000 FEET RADIUS (CONTINUED)
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DEPARTMENT OF TRANSPORTATION
STATE OF [NAME]

CONSTRUCTION LIFTING DEVICE
GRAVIX STANDARD UNIT - BARRIER FACE OPTION

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DEPARTMENT OF TRANSPORTATION
STATE OF [NAME]

CONSTRUCTION LIFTING DEVICE (CONTINUED)
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DEPARTMENT OF TRANSPORTATION
STATE OF [NAME]

MISCELLANEOUS OBSTRUCTION DETAILS

[Diagram of guardrail post cross section, large vertical obstruction detail, horizontal/parallel obstruction detail]
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STATE OF [NAME]

DEPARTMENT OF TRANSPORTATION

PROJECT NAME

PROJECT LOCATION

MISCELLANEOUS OBSTRUCTION DETAILS

GRAVIX DOT Precast Wall System

MISCELLANEOUS OBSTRUCTION DETAILS
GRAVIX TRAFFIC BARRIER REPLACEMENT STEPS

1. Saw cut asphalt 1/2 groove outside edge of both sides of unit back 8.5 feet from front face. Cut asphalt 8.5 feet from front face parallel between perpendicular cuts. Remove asphalt.
2. Excavate to expose groove and groove at joint and triangular step.
3. Saw cut wall portion through 1/4 joint.
4. Remove damaged unit by lifting vertically using square lifting blockout.
5. Saw cut adjacent groove in unit to extend slot of groove vertically. Remove all concrete to allow new traffic barrier unit base piece to slide vertically into place.
6. Slide replacement unit vertically into place.
7. Hold partial repair piece above groove in place.
8. Form and pour concrete 10 ft above groove. Block off concrete pour with a backer rod as required to contain concrete to original geometry.
10. Install pavement base and repair asphalt as required to match surrounding pavement.

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DEPARTMENT OF TRANSPORTATION
STATE OF [NAME]

INSTALLATION INTO TEMPORARY CUT SLOPE

PROJECT LOCATION

PROJECT NAME