

KUBRICKY CONSTRUCTION CORP.
269 BALLARD ROAD

WILTON, NY 12831
518 792-5864



Rutland City BRF 3000 (2014036)
SUBMITTAL 16.1

Issued 11/25/14
Respond by 12/09/14

To

Timothy Pockette, PE

Topic Revised EPSC Plan for BR2 Site
Status For Approval
Spec section 652.10
Sent to approver 11/25/14

From

HARPER T CALLAHAN

Signed by HT Callahan

Date 11/25/14

Proceed as Indicated _____
Owner Authorized Representative

Date _____

EPSC PLAN NARRATIVE

1 PROJECT DESCRIPTION

THIS PROJECT IS AT THE INTERSECTION OF TH 8 (RIVER ST.) AND TH 10 (DORR DR.) IN RUTLAND CITY. THIS PROJECT INVOLVES THE REMOVAL AND REPLACEMENT OF BRIDGE NO. 2, WITH SOME APPROACH AND CHANNEL WORK. A NEW TWO-LANE, TWO-SPAN, STEEL GIRDER BRIDGE WILL BE CONSTRUCTED DOWNSTREAM OF THE EXISTING BRIDGE. WATER AND SEWER LINES WILL BE MAINTAINED ON THE EXISTING BRIDGE, DURING CONSTRUCTION. FOLLOWING COMPLETION OF THE NEW BRIDGE, THE EXISTING BRIDGE, ABUTMENTS AND PIERS WILL BE REMOVED. TOTAL LENGTH OF PROJECT IS 1416 FEET, INCLUDING ROADWAY APPROACHES.

2 AREA OF DISTURBANCE

THE TOTAL AREA OF THE PROJECT INSIDE THE PROJECT DEMARCATION FENCE IS 3.66 ACRES. THE TOTAL EARTH DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT IS APPROXIMATELY 2.97 ACRES. SEE BREAKDOWN OF DISTURBANCE PER AREA IN # 5, BELOW

3. CONSTRUCTION SEQUENCE

CONSTRUCTION SEQUENCE WILL FOLLOW THE GENERAL PHASING LISTED BELOW. REFER TO CONTRACTOR'S COMPLETE SCHEDULE FOR ADDITIONAL DETAILS.

GENERAL PRACTICE FOR EACH STAGE OF CONSTRUCTION:

- ESTABLISH PERIMETER CONTROL AND MARK BOUNDARIES FOR SENSITIVE RESOURCE AREAS, SUCH AS WETLANDS AND RIPARIAN BUFFER AREAS.
- ESTABLISH SEDIMENT CONTROL MEASURES
- CLEAR AND GRUB
- STABILIZE TEMPORARY SLOPES
- BEGIN CUT AND FILL OPERATIONS
- STABILIZE DITCHES
- INSTALL TEMPORARY STABILIZATION AND EPSC MEASURES AS WORK PROGRESSES.

PHASE 1

CONSTRUCT PIER:

- INSTALL TEMPORARY CONSTRUCTION SIGNAGE
- CONSTRUCT ACCESS TO PIER
- INSTALL DRILLED SHAFT FOR PIER
- CONSTRUCT HAMMERHEAD FOR PIER

CONSTRUCT ABUTMENT 2:

- EXCAVATE TO FOOTING ELEVATION FOR ABUTMENT 2
- DRIVE PILES
- CONSTRUCT FOOTING AND STEM FOR ABUTMENT 2
- BACKFILL

PHASE 2A

CONSTRUCT ABUTMENT 1:

- CLOSE DORR STREET
- INSTALL COFFER DAM FOR ABUTMENT 1
- EXCAVATE TO FOOTING ELEVATION
- DRIVE PILES
- CONSTRUCT FOOTING AND STEM
- BACKFILL

PHASE 2B

RIVER STREET ROADWAY AND UTILITIES:

- ADJUST TEMPORARY CONSTRUCTION SIGNAGE
- CLOSE RIVER STREET
- INSTALL UTILITIES
- COMPLETE ROAD WORK

INSTALL SUPERSTRUCTURE:

- ERECT STRUCTURAL STEEL
- FORM AND PLACE CONCRETE DECK
- RELOCATE SEWER AND WATER LINES TO NEW STRUCTURE

CONSTRUCT APPROACHES:

- CONSTRUCT RETAINING WALL ALONG WEST SIDE OF DORR STREET
- CONSTRUCT APPROACHES
- OPEN RIVER STREET TO TRAFFIC
- OPEN DOOR STREET TO TRAFFIC

PHASE 3

DEMOLISH OLD STRUCTURE:

- DEMOLISH OLD BRIDGE

PHASE 4

FINAL RESTORATION

- COMPLETE CONSTRUCTION OF DRAINAGE SWALES
- COMPLETE SITE RESTORATION AND PERMANENT EROSION CONTROL MEASURES.

4 STABILIZATION OF EXPOSED SOILS

THERE ARE 4 TYPES OF SOILS ON THE PROJECT SITE: THE US DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR RUTLAND COUNTY, VERMONT IS THE SOURCE OF THE SOIL INFORMATION. ADDITIONAL INFORMATION FOR EACH SOIL TYPE IS INCLUDED ON THE PLAN SHEETS ENTITLED, "EXISTING CONDITIONS SITE PLAN."

1. PAXTON FINE SANDY LOAM, VERY SANDY, K=0.24 AREA OF DISTURBANCE 1.29 ACRES
2. UDIPSAMMENTS (FILL), K=0.15 AREA OF DISTURBANCE 1.67 ACRES
3. ELDRIDGE FINE SANDY LOAM, K=0.24 AREA OF DISTURBANCE 0.01 ACRES
4. RIPPOWAM FINE SANDY LOAM, K=0.20 AREA OF DISTURBANCE 0.001 ACRES

NOTE: K-VALUES INDICATE THE FOLLOWING: 0.0-0.18 = LOW EROSION POTENTIAL; 0.18-0.36 = MODERATE EROSION POTENTIAL; 0.37 AND HIGHER = HIGH EROSION POTENTIAL.

5. SEED AND MULCH WILL BE USED FOR BOTH TEMPORARY AND PERMANENT STABILIZATION MEASURES. ROLLED EROSION CONTROL PRODUCT (RECP) WILL BE USED IN PLACE OF MULCH FOR SLOPES GREATER THAN 1V:3H. MULCH IS TO BE APPLIED AT A MINIMUM APPLICATION RATE SHOWN ON THE EPSC DETAILS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. DISTURBED AREAS AND SOIL STOCKPILES THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY STABILIZED WITH MULCH/ROLLED EROSION CONTROL PRODUCT (RECP) WITHIN 48 HOURS.
7. EXPOSED AREAS THAT HAVE ACHIEVED FINAL GRADE SHALL BE PERMANENTLY STABILIZED WITHIN 48 HOURS.
8. IN AREAS WHERE VEGETATIVE COVER WILL PROVIDE PERMANENT STABILIZATION, PERMANENT SEEDING SHALL BE COMPLETED BETWEEN APRIL 15 AND SEPTEMBER 15.

5 DRAINAGE AREAS AND DISCHARGE POINTS

- A. DRAINAGE AREA 1- NORTH OF RIVER STREET, ALONG DORR DRIVE. STORM WATER TREATMENT, SITE BALANCING.
- B. DRAINAGE AREA 2- SOUTH OF RIVER STREET, ALONG DORR DRIVE. STORM WATER TREATMENT, SITE BALANCING.
- C. DRAINAGE AREA 3- SOUTH OF RIVER STREET, ALONG RIVER STREET, FROM END OF BRIDGE TO CULVERT. STORM WATER TREATMENT, GRASS SWALE.
- D. DRAINAGE AREA 4 - NORTH OF RIVER STREET, ALONG RIVER STREET FROM END OF BRIDGE TO END OF PROJECT. STORM WATER TREATMENT, GRASS SWALE.
- E. DRAINAGE AREA 5 - SOUTH OR RIVER STREET, ALONG RIVER STREET FROM THE CULVERT TO THE END OF THE PROJECT. STORM WATER TREATMENT, GRASS SWALE.

DRAINAGE AREA	STATION LOCATION	AREA OF DISTURBANCE (ACRES)	NEW IMPERVIOUS AREA (ACRES)	RECEIVING WATER
1	496+59-500+00	0.70	0.07	OTTER CREEK
2	500+00-502+25	0.59	0.05	OTTER CREEK
3	100+90-106+25, RT	0.72	0.14	OTTER CREEK
4	100+90-108+00, LT	0.73	0.29	OTTER CREEK
5	106+25-108+00, RT	0.23	0.03	OTTER CREEK
total		2.97	0.58	

NOTE: REFER TO THE APPROVED STORM WATER PERMIT (7041-INDS) FOR MORE INFORMATION CONCERNING THE DISCHARGE POINTS LISTED IN THIS TABLE.

- (a) DRAINAGE AREA 1 - LOCATED IN THE NORTHWEST QUADRANT OF THE PROJECT. RUNOFF ORIGINATES FROM BOTH LANES AND BOTH SHOULDERS OF DORR DRIVE. THE WATER FROM THE RIGHT LANE AND RIGHT SHOULDER FLOWS NORTH ALONG THE CURB ON THE WEST SIDE OF DORR DRIVE UNTIL IT REACHES THE DROP INLET AT STA. 497+62 RT, WHERE IT ENTERS THE CULVERT AND CROSSES DORR DRIVE AND FLOWS ONTO THE LAND ON THE EAST SIDE OF DORR DRIVE. THERE IS OVERLAND FLOW, AND THE WATER EVENTUALLY REACHES THE OTTER CREEK. THE WATER FROM THE LEFT LANE AND LEFT SHOULDER FLOWS OVER THE STONE FILL SLOPE THAT LINES THE OTTER CREEK AND ENTERS THE OTTER CREEK AT THE TOE OF THIS STONE FILL.
- (b) DRAINAGE AREA 2 - LOCATED IN THE SOUTHWEST QUADRANT OF THE PROJECT. RUNOFF ORIGINATES FROM BOTH LANES AND BOTH SHOULDERS OF DORR DRIVE. THE WATER FROM THE RIGHT LANE AND RIGHT SHOULDER FLOWS SOUTH ALONG THE CURB ON THE WEST SIDE OF DORR DRIVE, UNTIL IT REACHES THE DROP INLET AT STA. 502+00, WHERE IT ENTERS THE CULVERT AND CROSSES DORR DRIVE AND FLOWS ONTO THE LAND ON THE EAST SIDE OF DORR DRIVE. THERE IS OVERLAND FLOW, AND THE WATER EVENTUALLY REACHES THE OTTER CREEK. THE WATER FROM THE LEFT LANE AND LEFT SHOULDER FLOWS DOWN THE SIDE SLOPE ONTO LEVEL GROUND, OR INTO THE OTTER CREEK.
- (c) DRAINAGE AREA 3- LOCATED ON THE EAST SIDE OF THE OTTER CREEK AND ON THE SOUTH SIDE OF RIVER STREET, FROM THE BRIDGE TO THE CULVERT AT STA. 106+25. RUNOFF ORIGINATES FROM THE RIGHT LANE AND RIGHT SHOULDER OF RIVER STREET. THE WATER FLOWS OVER THE SIDE SLOPE AND INTO THE GRASS SWALE LOCATED AT THE TOE OF SLOPE. THE SWALE FLOWS EAST AND JOINS THE FLOW OUT OF THE CULVERT AT STA. 106+25.
- (d) DRAINAGE AREA 4- LOCATED ON THE EAST SIDE OF THE OTTER CREEK AND ON THE NORTH SIDE OF RIVER STREET. RUNOFF ORIGINATES FROM THE LEFT LANE AND LEFT SHOULDER OF RIVER STREET, FROM THE BRIDGE TO THE END OF THE PROJECT. THE WATER FLOWS OVER THE SIDE SLOPES AND INTO THE GRASS SWALES LOCATED AT THE TOE OF SLOPE. THE SWALES FLOW INTO THE CULVERT AT STA. 106+25.

(e) DRAINAGE AREA 5- LOCATED ON THE EAST SIDE OF THE OTTER CREEK AND ON THE SOUTH SIDE OF RIVER STREET, FROM STA. 106+25 TO THE END OF THE PROJECT. RUNOFF ORIGINATES FROM THE RIGHT LANE AND RIGHT SHOULDER OF RIVER STREET. THE WATER FLOWS OVER THE SIDE SLOPE AND INTO THE GRASS SWALE LOCATED AT THE TOE OF SLOPE. THE SWALE FLOWS WEST AND JOINS THE FLOW OUT OF THE CULVERT AT STA. 106+25.

6 WASTE, BORROW AND STAGING AREAS

- (f) OFF-SITE WASTE AREAS HAVE NOT BEEN IDENTIFIED FOR THIS PROJECT. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND PERMIT, AS NECESSARY, ANY OFF-SITE WASTE AREAS THAT WILL BE NEEDED. ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES NECESSARY FOR WASTE AND STAGING AREAS OUTSIDE THE PROJECT, LIMITS SHALL BE PAID FOR PER 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. REFER TO SHEET EC2
- (g) LOCATE ADDITIONAL AREAS FOR DISPOSAL OF STUMPS, EXCESS SOILS AND COLLECTED SEDIMENT, IF NECESSARY. DISPOSE OF THESE MATERIALS IN A MANNER THAT WILL NOT RESULT IN SEDIMENTS ENTERING WATERS OF THE STATE.
- (h) DISPOSAL SITES REQUIRE LEVEL TERRAIN AND AN ISOLATION DISTANCE OF AT LEAST 100 FT FROM ANY SURFACE WATERS, INCLUDING WETLANDS.
- (i) VEHICLE AND EQUIPMENT STORAGE AREAS OR AREAS ADJACENT TO CONSTRUCTION TRAILERS OR OTHER HIGH TRAFFIC AREAS SHALL BE COVERED WITH GEOTEXTILE FABRIC AND 12 INCHES OF GRAVEL. FOLLOWING COMPLETION OF CONSTRUCTION, ALL NON-NATIVE MATERIALS SHALL BE REMOVED FROM THE STAGING AREA. COMPACTED, RUTTED, OR OTHERWISE DISTURBED SOILS SHALL BE TILLED, RAKED, SEEDED AND MULCHED.
- (j) ERODIBLE MATERIALS STOCKPILED WITHIN THE MATERIAL STORAGE AREAS SHALL BE ISOLATED WITH SILT FENCE OR OTHER ACCEPTABLE SEDIMENT BARRIER. SOIL STOCKPILED ON THE SITE SHALL BE SEEDED AND MULCHED.

7 WINTER CONSTRUCTION REQUIREMENTS

IT IS EXPECTED THAT CONSTRUCTION WILL CONTINUE INTO THE WINTER CONSTRUCTION SEASON, CONDITIONAL UPON ACTUAL FIELD AND WEATHER CONDITIONS. IF ACTIVITIES ARE ON GOING BETWEEN OCTOBER 15 AND APRIL 15, THE CONTRACTOR SHALL FOLLOW REQUIREMENTS FOR WINTER CONSTRUCTION, AS DEFINED IN SPECIFIC PERMIT CONDITIONS AND AS FOLLOWS:

- (k) ENLARGED ACCESS POINTS STABILIZED TO PROVIDE FOR SNOW STOCKPILING.
- (l) LIMITS OF DISTURBANCE MOVED OR REPLACED TO REFLECT BOUNDARY OF WINTER WORK.
- (m) DEVELOPMENT OF A SNOW MANAGEMENT PLAN THAT INCLUDES:
 - (a) ADEQUATE STORAGE AND CONTROL OF MELT-WATER.
 - (b) STORAGE OF CLEARED SNOW TO BE PLACED DOWN SLOPE OF DISTURBED AREAS AND OUT OF STORM WATER TREATMENT STRUCTURES.
- a. A MINIMUM OF 25 FOOT BUFFER SHALL BE MAINTAINED FROM PERIMETER CONTROLS.
- b. DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
- c. SILT FENCE AND OTHER PRACTICES REQUIRING EARTH DISTURBANCE MUST BE INSTALLED AHEAD OF FROZEN GROUND.
- d. MULCH TO BE APPLIED AT TWICE THE RATE, AS SHOWN ON THE EPSC DETAILS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- e. AREAS OF DISTURBED SOILS MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
 - f. IF NO PRECIPITATION WITHIN 24 HOURS IS FORECAST AND WORK WILL RESUME IN THE SAME AREA WITHIN 24 HOURS.
 - g. DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS OPEN UTILITY TRENCHES, MUST BE STABILIZED AT THE END OF EACH WORK WEEK.
- h. PRIOR TO STABILIZATION, SNOW OR ICE MUST BE REMOVED TO LESS THAN 1" THICKNESS.

8 CONTRACTOR RESPONSIBILITIES, LIMITATIONS & PROHIBITIONS

- (a) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO AMEND/UPDATE ALL PLANS AND EXISTING PERMITS WHEN ADDING DETAILED CONSTRUCTION PHASING OR MODIFYING ANYTHING THAT MAY DEVIATE FROM THE APPROVED PLANS. AS DIRECTED BY THE ENGINEER.
- (b) OTHER THAN THOSE SHOWN ON THE PLANS, ALL LAND DISTURBANCE WITHIN 50 FEET OF ALL WATER BODIES, MEASURED FROM THE TOP OF THE BANK, AND WETLANDS ARE PROHIBITED WITHOUT FURTHER REGULATORY REVIEW.
- (c) CONTRACTOR TO MAINTAIN ALL EXISTING STREAMS AND RIPARIAN BUFFER ZONES IN THEIR NATURAL CONDITION.
- (d) OFF-SITE DISCHARGES OF ANY MATERIAL, OTHER THAN STORM WATER, SUCH AS VEHICLE AND EQUIPMENT MAINTENANCE SPILLS, FUEL, WASH WATER, CONSTRUCTION DEBRIS, OIL, WET CONCRETE (INCLUDING WASHOUT WATER FROM CONCRETE BATCH TRUCKS OR EQUIPMENT USED TO MIX CONCRETE) AND OTHER SUBSTANCES ARE PROHIBITED.
- (e) THE FAILURE TO PROMPTLY ABATE THE DISCHARGE OF SEDIMENT OR ANY OTHER WASTE WHICH CAUSES A VISIBLE DISCOLORATION OF SURFACE WATERS (INCLUDING WETLANDS), OR IS FOUND TO BE IN VIOLATION OF WATER QUALITY STANDARDS BASED ON MONITORING IS PROHIBITED. ANY CORRECTIVE ACTION UNDERTAKEN TO REMOVE SEDIMENT FROM A WETLAND IS ALSO PROHIBITED.
- (f) WEATHER CONDITIONS WILL BE MONITORED DURING THE CONSTRUCTION SEASON. IF AN EXTENDED RAIN PERIOD OR HEAVY RAIN IS PREDICTED, EXPOSED SOIL AREAS WILL BE MULCHED PRIOR TO AND DAILY DURING THE RAIN EVENT. IF DETERMINED NECESSARY BY THE ENGINEER, WORK MAY BE SUSPENDED OR LIMITED DURING THE STORM.
- (g) THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A DEWATERING AND WATER TREATMENT PLAN.

PROJECT NAME:	RUTLAND CITY	
PROJECT NUMBER:	BRF 3000(16)	
FILE NAME:	s94j09forms.dgn	PLOT DATE: 03-JUL-2014
PROJECT LEADER:	C. CARLSON	DRAWN BY: G. ROY
DESIGNED BY:	M.EVANS-MONGEON	CHECKED BY: EVANS-MONGEON
EPSC NARRATIVE		SHEET 224 OF 245



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11-25-14

REVISIONS	DATE	COMMENTS	BY

RUTLAND CITY
BRF 3000 (16)

EROSION CONTROL NARRATIVE 1

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC1

FILE: \\C:\Users\Timothy.Kinard\Desktop\Projects\New Street Bridge\BRF3000(16) - ECI.dwg, Nov 25, 2014, 2:15pm

6 WASTE, BORROW AND STAGING AREAS (CONTINUED)

THE OFF-SITE ACTIVITIES CONSIST OF STORAGE OF EXCAVATED MATERIALS, STORAGE OF BACKFILL MATERIALS AND STAGING. THESE ACTIVITIES ARE LOCATED THE FOLLOWING PROPERTIES:

AREA 1: WASTE

OWNER: ELNICKI AGGREGATE, INC.

LOCATION: THIS AREA IS LOCATED AT 1358 COLD RIVER ROAD IN CLARENDEN, VT, APPROXIMATELY 3.7 MILES SOUTHEAST OF THE PROJECT SITE. THIS LOCATED WILL BE USED AS A WASTE SITE. REFER TO ATTACHED OFF-SITE ACTIVITY SUBMITTAL FORM AND OFF-SITE ACTIVITY EXEMPTION RECORD.

AREA 2: EQUIPMENT STORAGE

OWNER: GREG COX

LOCATION: THIS AREA IS LOCATED AT 251 WEST RUTLAND STREET, APPROXIMATELY 0.5 MILES NORTHEAST OF THE PROJECT SITE. STORAGE OF EQUIPMENT WILL BE CONTAINED IN AN EXISTING POLE BARN ON SITE. THE CONTRACTOR'S AND ENGINEER'S PROJECT OFFICES WILL BE LOCATED ON THIS PROPERTY IN A SEPARATE EXISTING BUILDING.

7 WINTER CONSTRUCTION REQUIREMENTS (CONTINUED)

7.M REFER TO SHEET EC4 FOR PROPOSED SNOW STORAGE LOCATIONS.

8 CONTACT INFORMATION

1) ON-SITE PLAN COORDINATOR:

THOMAS NOSSIVERA
KUBRICKY CONSTRUCTION CORPORATION
269 BALLARD ROAD
WILTON, NY 12801
518-361-1222

TOM NOSSIVERA WILL BE ONSITE ON A DAILY BASIS AS THE PROJECT SUPERINTENDENT RESPONSIBLE FOR THE ACTIVITIES OF KUBRICKY CONSTRUCTION CORPORATION. AS THE ON-SITE PLAN COORDINATOR, TOM WILL BE RESPONSIBLE FOR COMPLETING THE EPSC PLAN INSPECTION REPORT.

2) PLAN PREPARER:

TIMOTHY P. KNAPP, PE
DUFRESNE GROUP
PO BOX B
WINDSOR, VERMONT
802-674-2904
TKNAPP@DUFRESNEGROUP.COM

TIMOTHY KNAPP IS A VT REGISTERED PROFESSIONAL ENGINEER AND IS FAMILIAR WITH THE VT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL, THE VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE PROJECT'S SPECIAL PROVISIONS AND PERMITS.

9 SCHEDULE: REFER TO PROJECT SCHEDULE SUBMITTED BY KUBRICKY CONSTRUCTION CORP.

10 INSPECTION FORM: THE EPSC PLAN INSPECTION REPORT GENERATED BY ANR FOR MODERATE RISK PROJECTS WILL BE UTILIZED FOR THIS PROJECT.



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11-25-14

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RUTLAND CITY
BRF 3000 (16)

EROSION CONTROL NARRATIVE 2

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC2

FILE: \\VAD01\cna\valuedes\VT\water\er\bridge\BRF3000(16) - EC.dwg, Nov 25, 2014 - 2:15pm



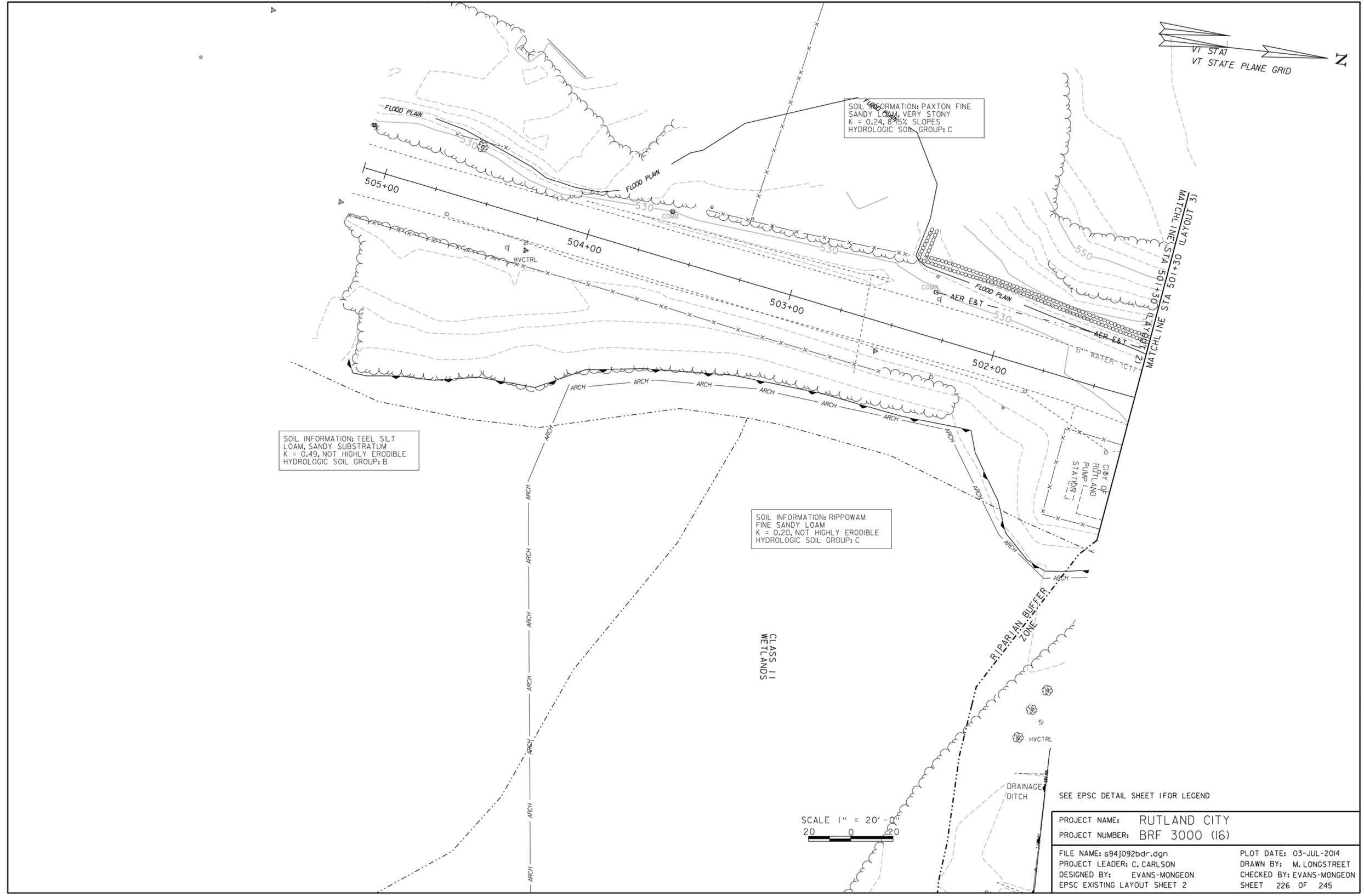
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PROJECT NAME:	RUTLAND CITY
PROJECT NUMBER:	BRF 3000 (16)
FILE NAME:	s94j092bdr.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	EVANS-MONGEON
EPSC EXISTING LAYOUT SHEET 2	
PLOT DATE:	03-JUL-2014
DRAWN BY:	M. LONGSTREET
CHECKED BY:	EVANS-MONGEON
SHEET	226 OF 245

- NOTES:**
- BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.
 - STAGE 1 WORK INCLUDES THE CONSTRUCTION OF ABUTMENT 1 AND THE PIER.

RUTLAND CITY
BRF 3000 (16)

EXISTING CONDITIONS 2

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC4

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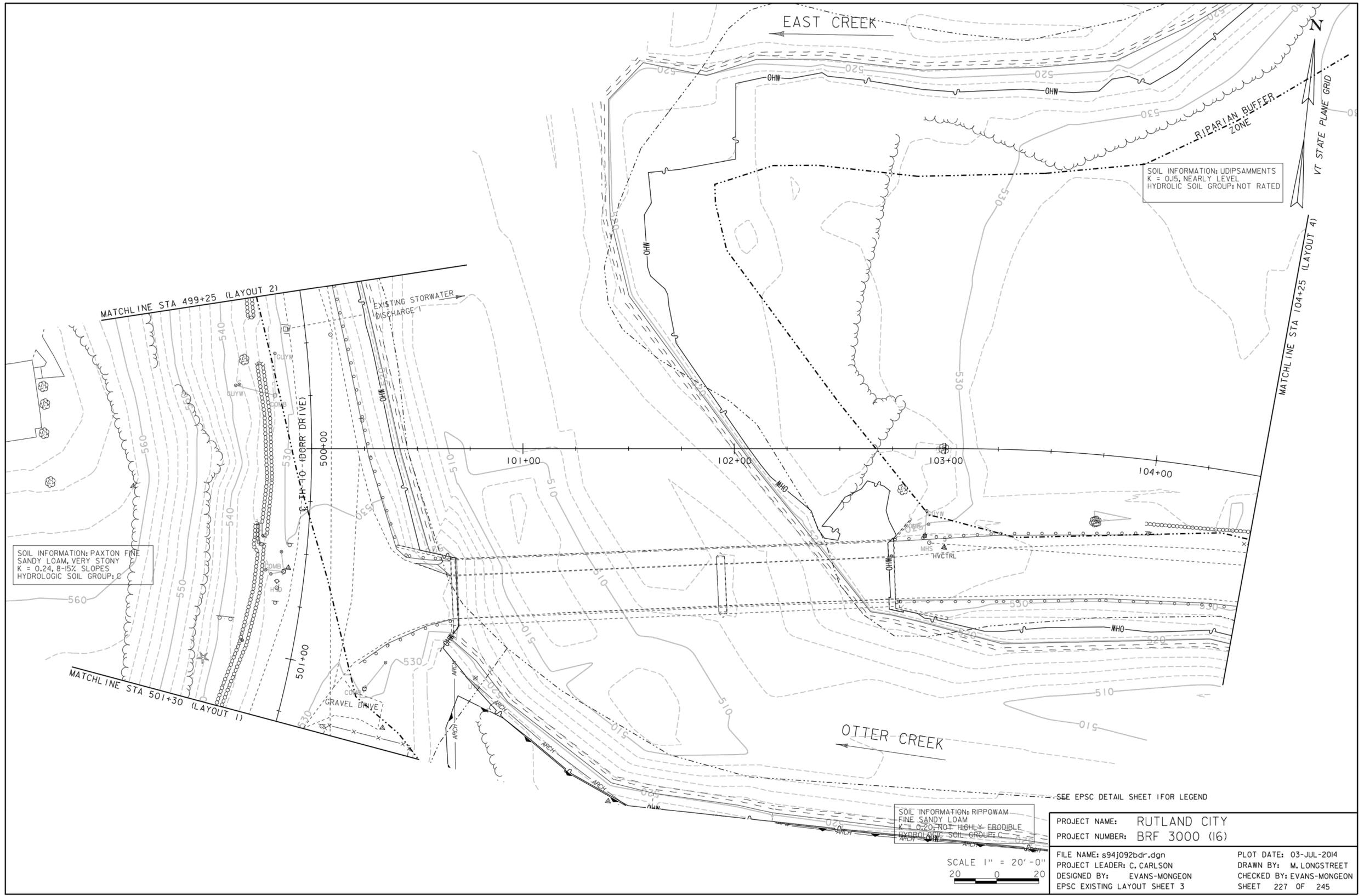
RUTLAND CITY
BRF 3000 (16)

EXISTING CONDITIONS 3

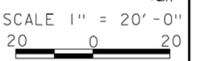
CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC5



PROJECT NAME:	RUTLAND CITY
PROJECT NUMBER:	BRF 3000 (16)
FILE NAME:	s94j092bdr.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	EVANS-MONGEON
EPSC EXISTING LAYOUT SHEET	3
PLOT DATE:	03-JUL-2014
DRAWN BY:	M. LONGSTREET
CHECKED BY:	EVANS-MONGEON
SHEET	227 OF 245



- NOTES:**
- BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.
 - STAGE 1 WORK INCLUDES THE CONSTRUCTION OF ABUTMENT 1 AND THE PIER.

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 Plot Lineweight: 0.20
 Plot Font: Arial, 10
 Plot Units: Feet
 Plot Precision: 2
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 Plot Path: \\CAD01\cna\l\m\m\092\092bdr.dgn
 Plot Title: RUTLAND CITY BRF 3000 (16) EC5



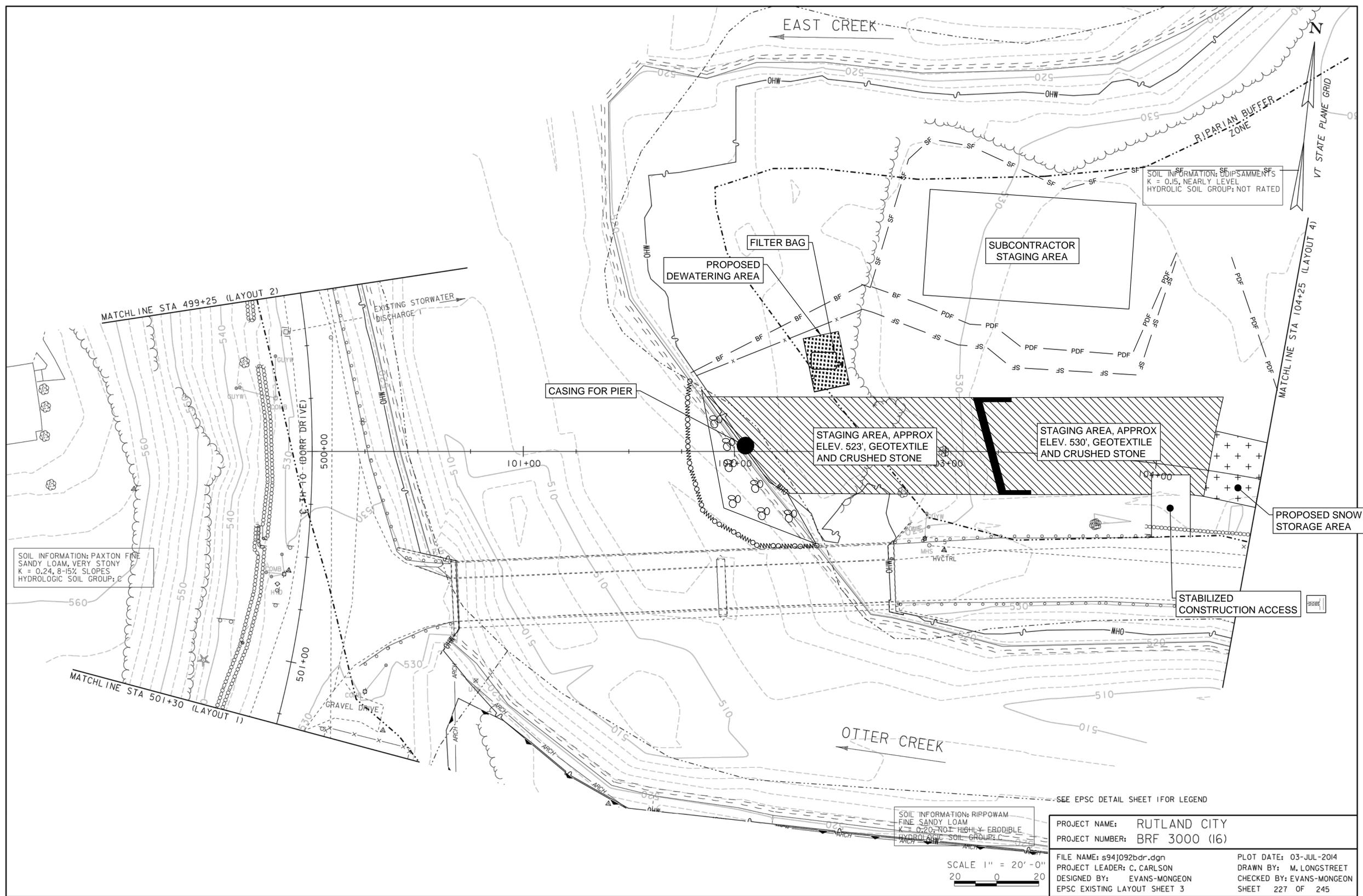
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FILE NAME:	s94j092bdr.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	EVANS-MONGEON
EPSC EXISTING LAYOUT SHEET:	3
PLOT DATE:	03-JUL-2014
DRAWN BY:	M. LONGSTREET
CHECKED BY:	EVANS-MONGEON
SHEET:	227 OF 245

- NOTES:**
1. BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.
 2. STAGE 1 WORK INCLUDES THE CONSTRUCTION OF ABUTMENT 1 AND THE PIER.

REVISIONS	DATE	COMMENTS	BY

RUTLAND CITY
BRF 3000 (16)

STAGE 1 EROSION CONTROL PLAN 1

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC7

FILE: \\CAD01\cadd\msh\140614\140614.dwg
 PLOT DATE: 03-JUL-2014 11:25:14
 PLOT BY: M. LONGSTREET
 PLOT SCALE: 1"=20'-0"
 PLOT SHEET: 227 OF 245



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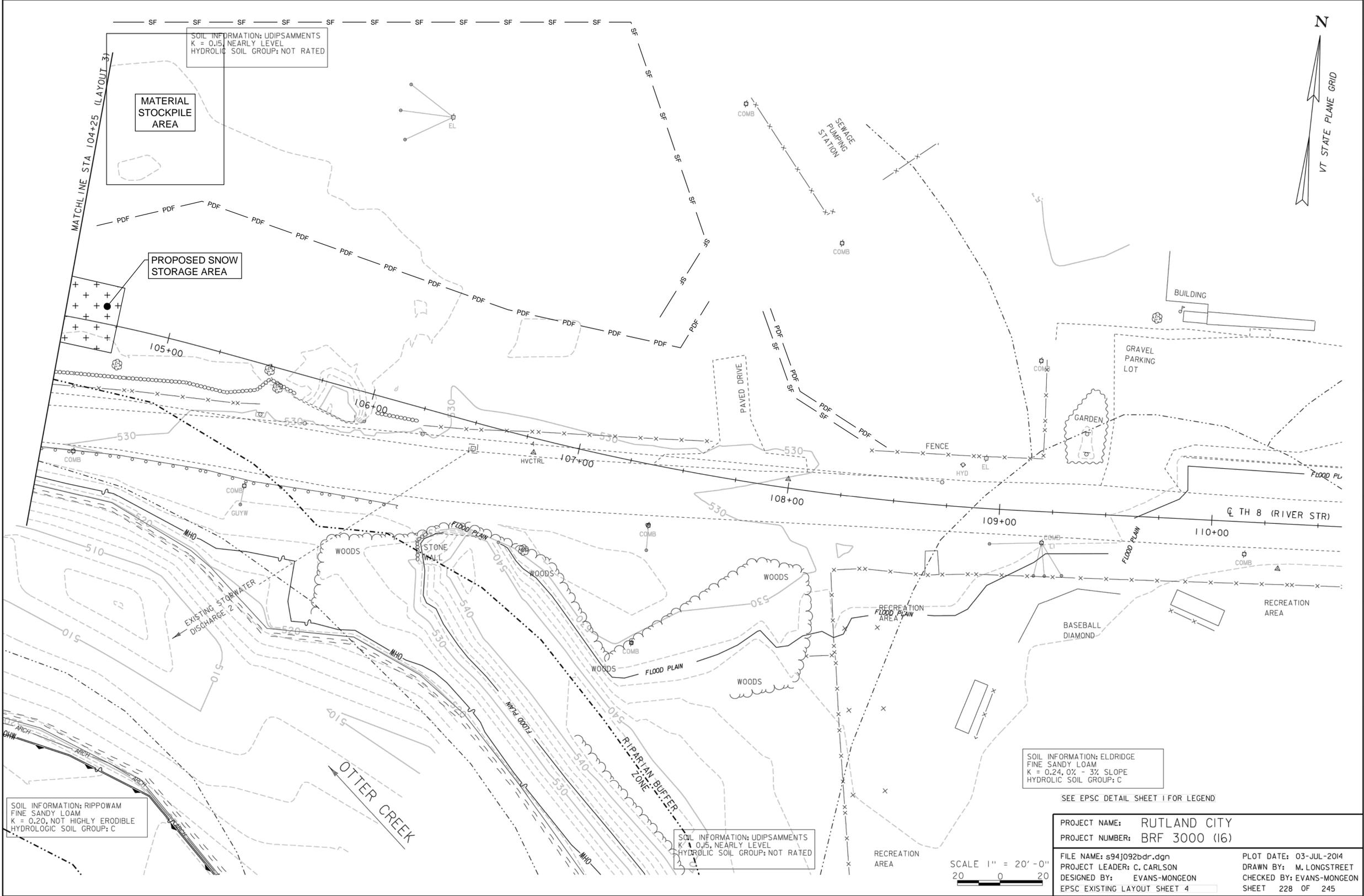
RUTLAND CITY
BRF 3000 (16)

STAGE 1 EROSION CONTROL PLAN 2

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC8



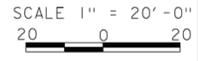
SOIL INFORMATION: RIPPOWAM
FINE SANDY LOAM
K = 0.20, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: C

SOIL INFORMATION: UDIPSAMMENTS
K = 0.15, NEARLY LEVEL
HYDROLOGIC SOIL GROUP: NOT RATED

SOIL INFORMATION: ELDRIDGE
FINE SANDY LOAM
K = 0.24, 0% - 3% SLOPE
HYDROLOGIC SOIL GROUP: C

SOIL INFORMATION: UDIPSAMMENTS
K = 0.15, NEARLY LEVEL
HYDROLOGIC SOIL GROUP: NOT RATED

SEE EPSC DETAIL SHEET 1 FOR LEGEND



PROJECT NAME:	RUTLAND CITY
PROJECT NUMBER:	BRF 3000 (16)
FILE NAME:	s94j092bdr.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	EVANS-MONGEON
EPSC EXISTING LAYOUT SHEET	4
PLOT DATE:	03-JUL-2014
DRAWN BY:	M. LONGSTREET
CHECKED BY:	EVANS-MONGEON
SHEET	228 OF 245

- NOTES:**
- BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.
 - STAGE 1 WORK INCLUDES THE CONSTRUCTION OF ABUTMENT 1 AND THE PIER.



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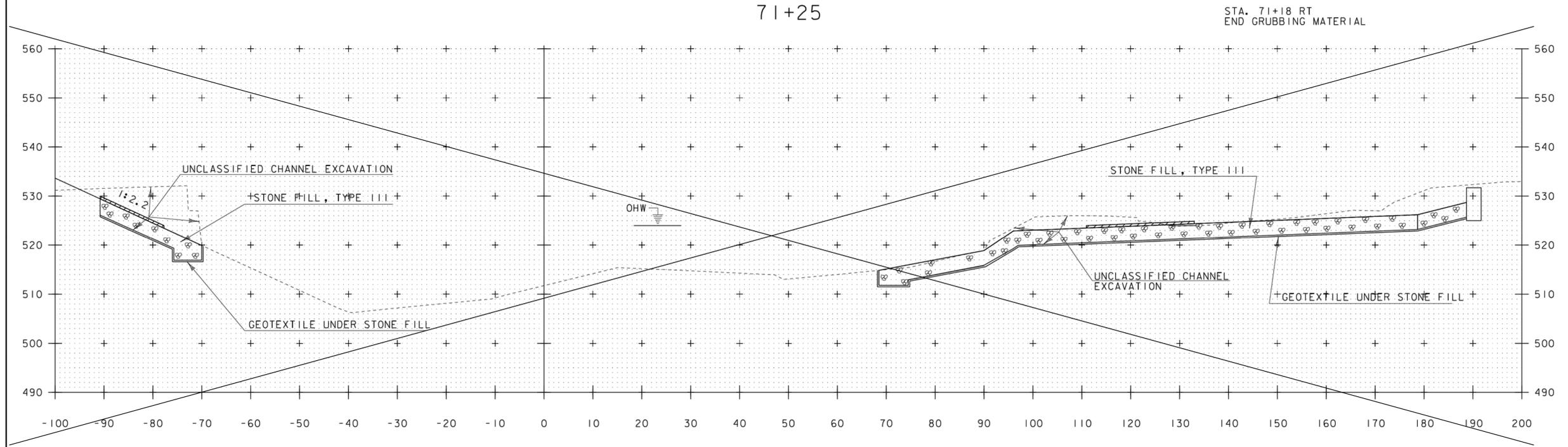
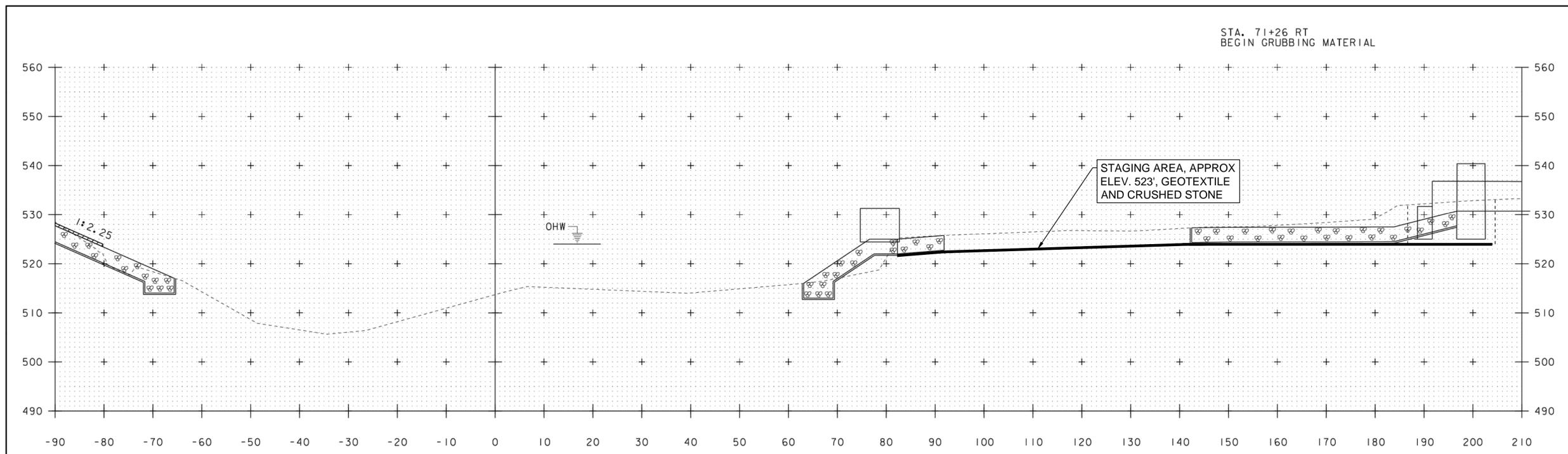
RUTLAND CITY
BRF 3000 (16)

STAGE 1 EROSION CONTROL PLAN 3

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC9



PROJECT NAME: RUTLAND CITY
PROJECT NUMBER: BRF 3000 (16)

FILE NAME: s94J092xs.dgn PLOT DATE: 08-JUL-2014
PROJECT LEADER: C. CARLSON DRAWN BY: M.LONGSTREET
DESIGNED BY: M.EVANS-MONGEON CHECKED BY: EVANS-MONGEON
CHANNEL CROSS SECTION SHEET 3 SHEET 219 OF 245

SCALE 1" = 10'
STA. 71+00 TO STA. 71+25

- NOTES:**
- BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.
 - STAGE 1 WORK INCLUDES THE CONSTRUCTION OF ABUTMENT 1 AND THE PIER.

P:\E:\14\14000\14000.dwg (14000.dwg) - EC9.dwg Nov 25, 2014 - 2:17pm



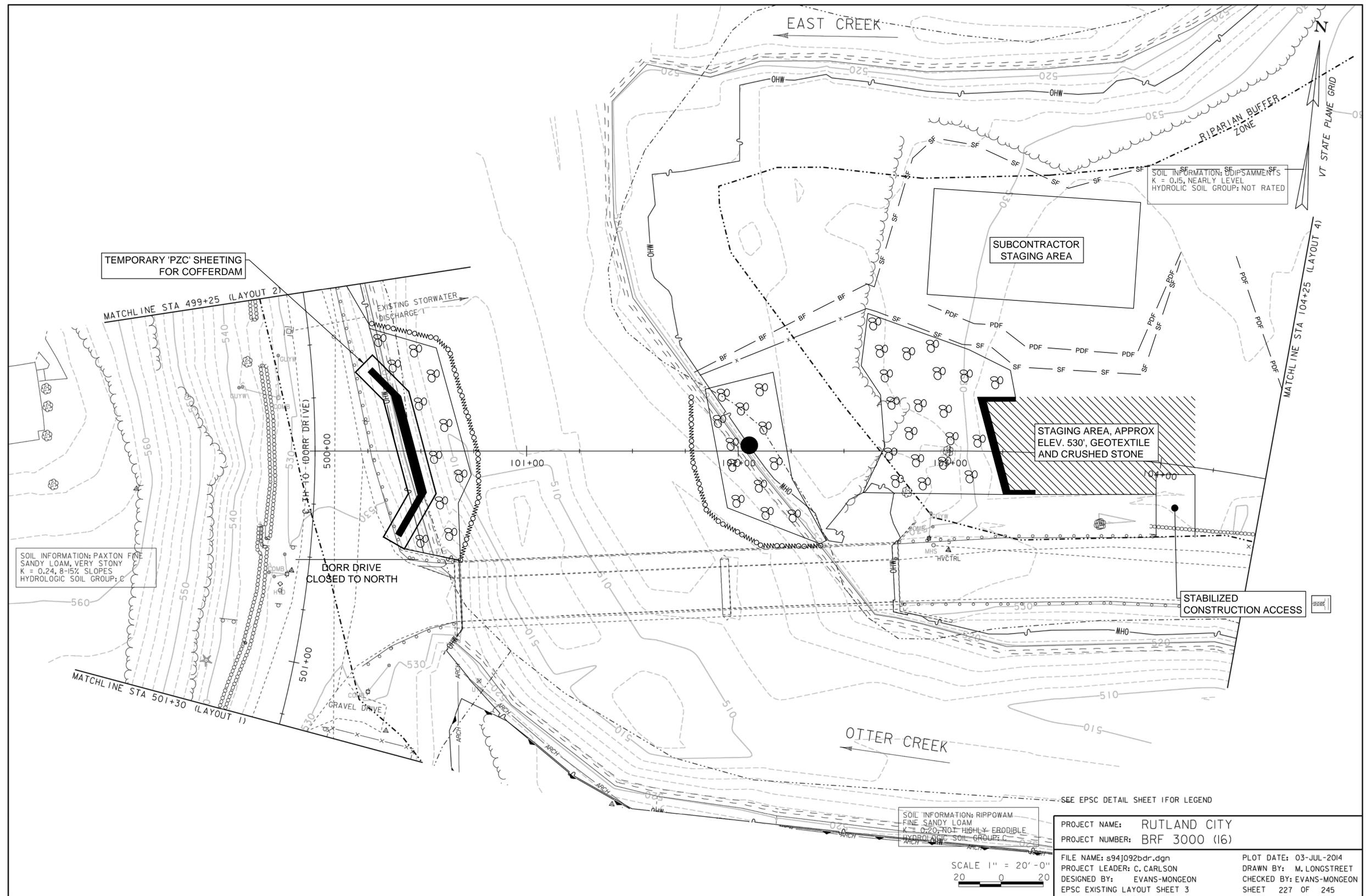
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REVISIONS	DATE	COMMENTS	BY

RUTLAND CITY
BRF 3000 (16)

STAGE 2A EROSION CONTROL PLAN 1

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC10

SHEET 10 OF 27

- NOTES:
- BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.
 - STAGE 2A WORK INCLUDES THE CONSTRUCTION OF ABUTMENT 1 AND ROAD WORK AT THE NORTH END OF DORR DRIVE.

FILE: \\CAD01\cna\valued\VT\valued\bridge\Draw\Sheet\Bridges\BRF3000(16) - EC10.dwg, Nov 25, 2014 - 2:17pm



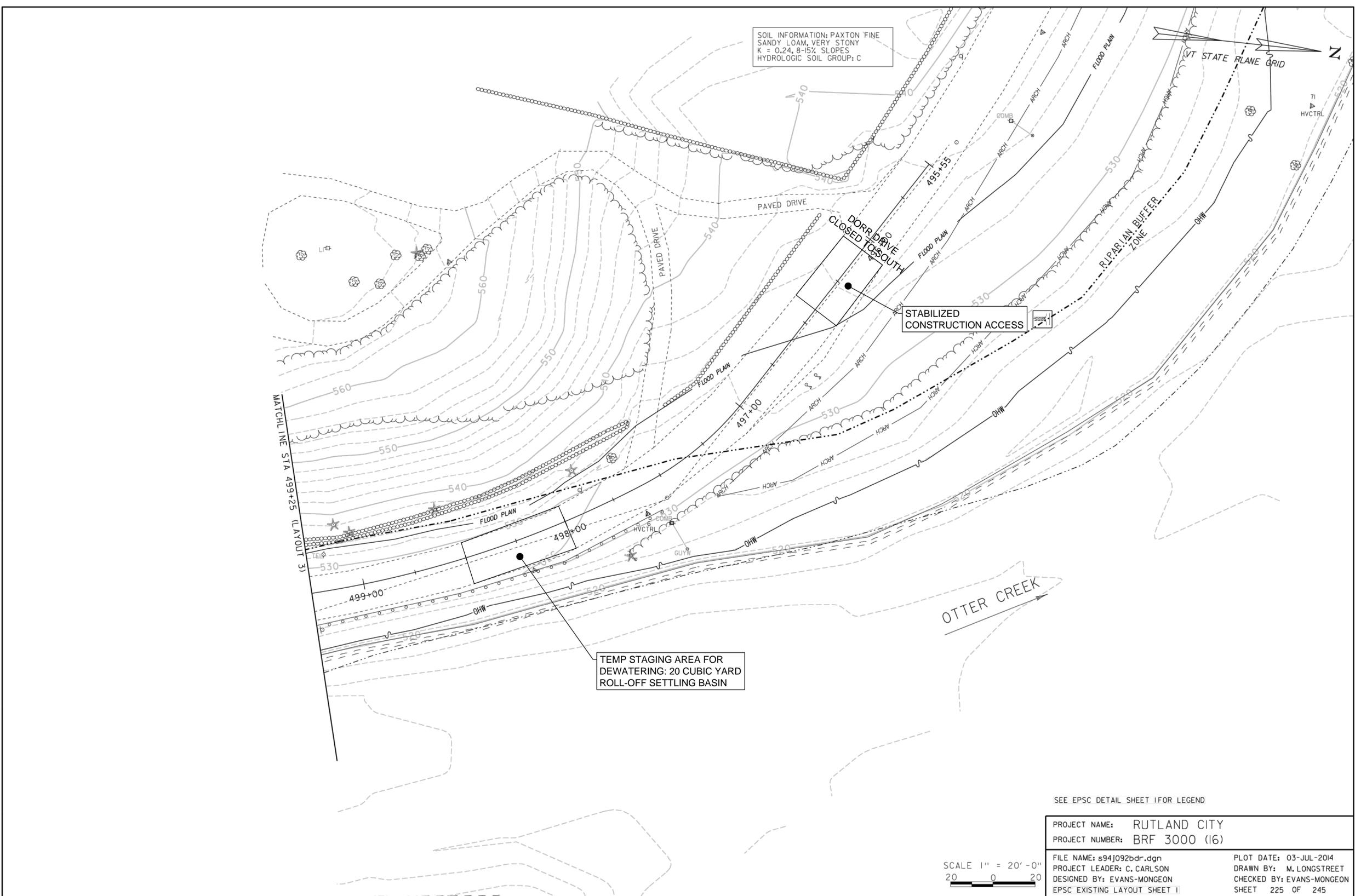
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11-25-14



SOIL INFORMATION: PAXTON FINE SANDY LOAM, VERY STONY
K = 0.24, 8-15% SLOPES
HYDROLOGIC SOIL GROUP: C

STABILIZED CONSTRUCTION ACCESS

TEMP STAGING AREA FOR DEWATERING: 20 CUBIC YARD ROLL-OFF SETTLING BASIN

OTTER CREEK

SEE EPSC DETAIL SHEET FOR LEGEND

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	RUTLAND CITY
PROJECT NUMBER:	BRF 3000 (16)
FILE NAME:	s94j092bdr.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	EVANS-MONGEON
EPSC EXISTING LAYOUT SHEET:	1
PLOT DATE:	03-JUL-2014
DRAWN BY:	M. LONGSTREET
CHECKED BY:	EVANS-MONGEON
SHEET:	225 OF 245

NOTES:

- BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.
- STAGE 2A WORK INCLUDES THE CONSTRUCTION OF ABUTMENT 1 AND ROAD WORK AT THE NORTH END OF DORR DRIVE.

REVISIONS	DATE	COMMENTS	BY

RUTLAND CITY
BRF 3000 (16)

STAGE 2A EROSION CONTROL PLAN 2

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC11

C:\E:\14\2014\11\11-25-14\11-25-14.dwg



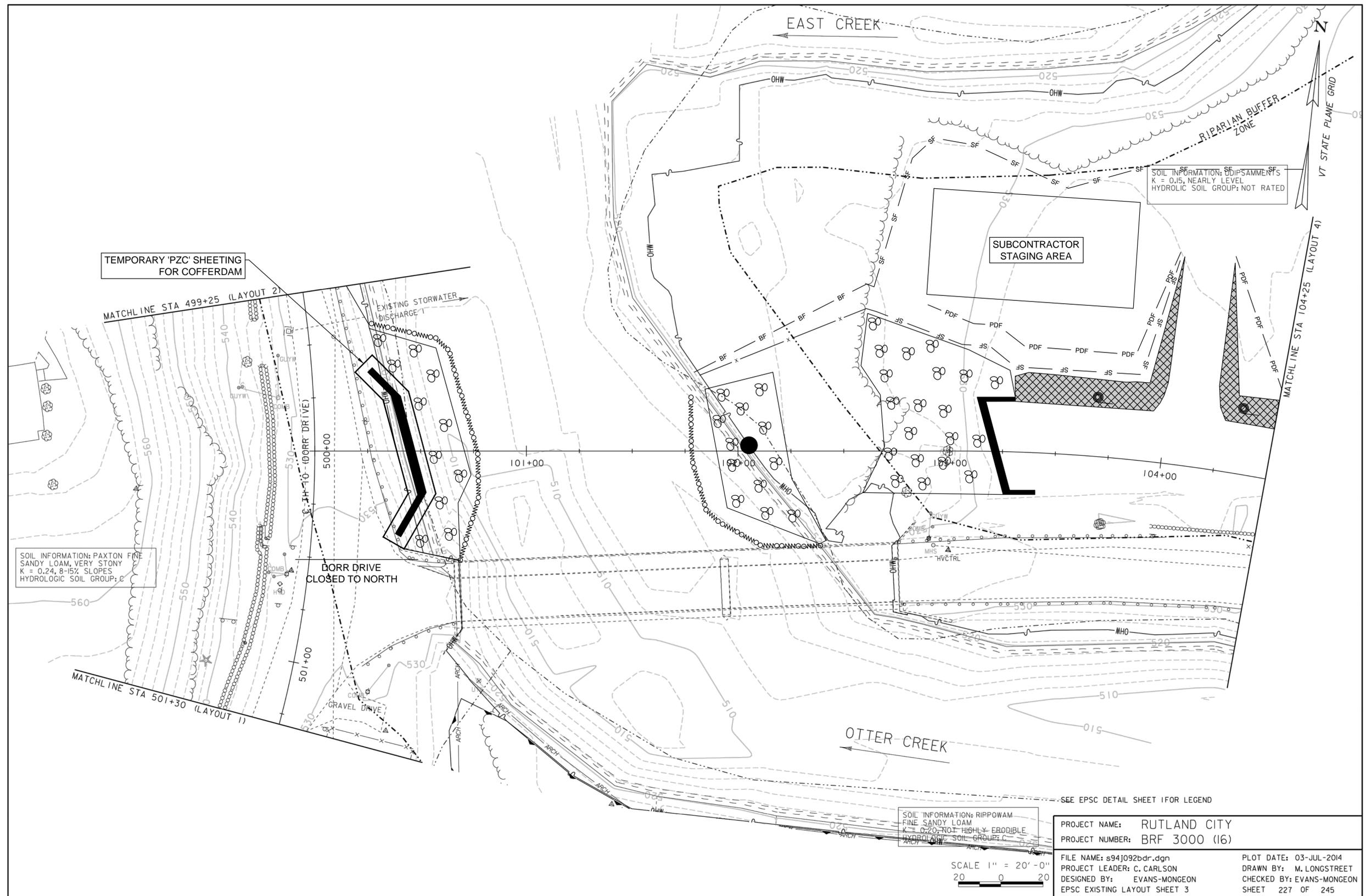
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11-25-14



SOIL INFORMATION: PAXTON FINE SANDY LOAM, VERY STONY
K = 0.24, B-15% SLOPES
HYDROLOGIC SOIL GROUP: C

SOIL INFORMATION: SIPSAMMENTS
K = 0.15, NEARLY LEVEL
HYDROLOGIC SOIL GROUP: NOT RATED

SOIL INFORMATION: RIPPOWAM
FINE SANDY LOAM
K = 0.20, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: C

SCALE 1" = 20' - 0"
20 0 20

PROJECT NAME:	RUTLAND CITY
PROJECT NUMBER:	BRF 3000 (16)
FILE NAME:	s94j092bdr.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	EVANS-MONGEON
EPSC EXISTING LAYOUT SHEET	3
PLOT DATE:	03-JUL-2014
DRAWN BY:	M. LONGSTREET
CHECKED BY:	EVANS-MONGEON
SHEET	227 OF 245

- NOTES:**
- BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.
 - STAGE 2B WORK INCLUDES THE CONSTRUCTION OF ABUTMENT 1 AND ROAD WORK ON RIVER STREET.

REVISIONS	DATE	COMMENTS	BY

RUTLAND CITY
BRF 3000 (16)

STAGE 2B EROSION CONTROL PLAN 1

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC12

FILE: \\CAD01\City\Users\jtk\Projects\BRF3000\16 - EC.dwg, Nov 25, 2014, 2:17pm



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RUTLAND CITY
BRF 3000 (16)

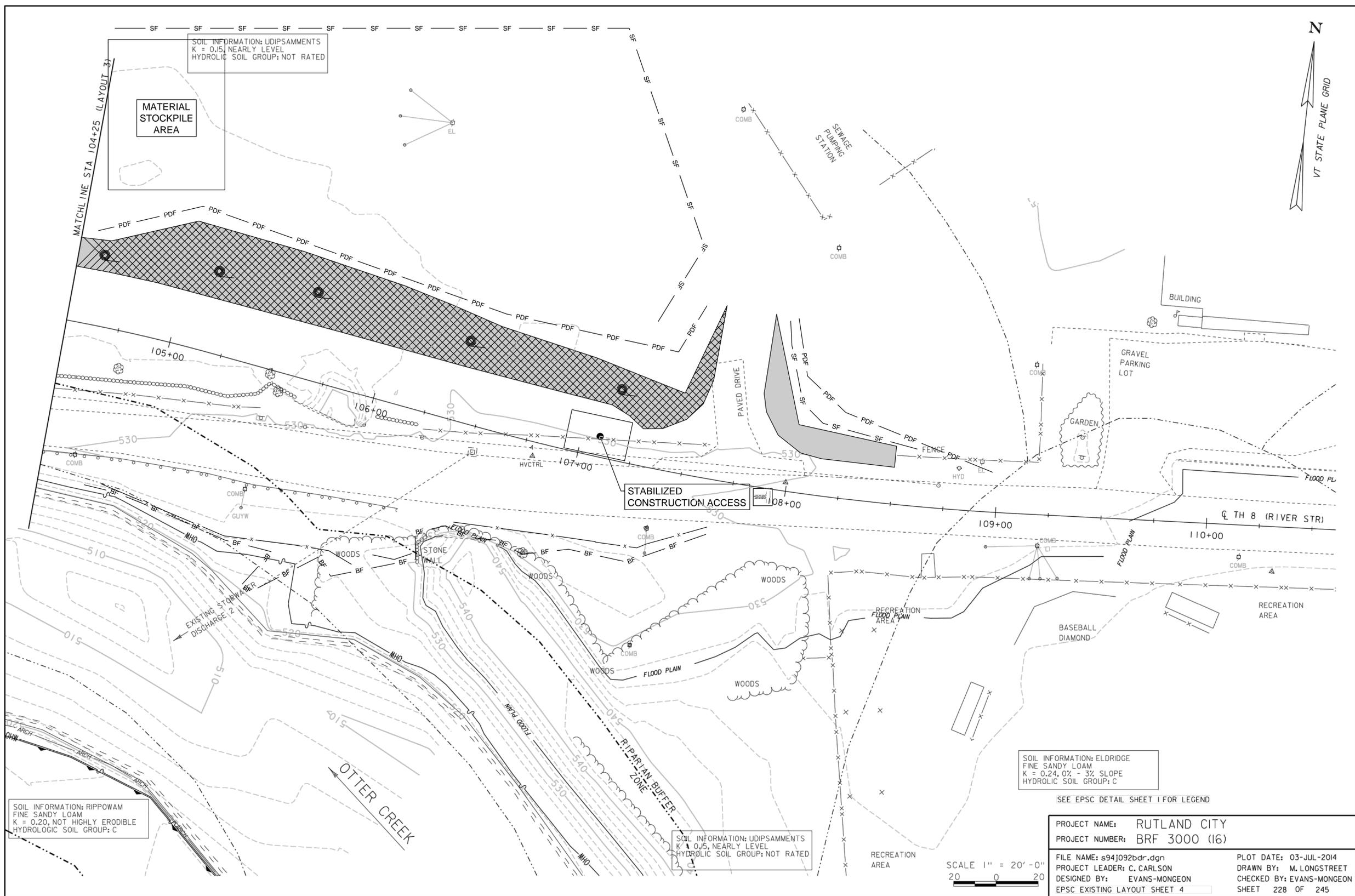
STAGE 2B EROSION CONTROL PLAN 2

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC13

SHEET 13 OF 27



SOIL INFORMATION: UDIPSAMMENTS
K = 0.15, NEARLY LEVEL
HYDROLOGIC SOIL GROUP: NOT RATED

MATERIAL STOCKPILE AREA

STABILIZED CONSTRUCTION ACCESS

SOIL INFORMATION: ELDRIDGE
FINE SANDY LOAM
K = 0.24, 0% - 3% SLOPE
HYDROLOGIC SOIL GROUP: C

SEE EPSC DETAIL SHEET 1 FOR LEGEND

PROJECT NAME:	RUTLAND CITY
PROJECT NUMBER:	BRF 3000 (16)
FILE NAME:	s94j092bdr.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	EVANS-MONGEON
EPSC EXISTING LAYOUT SHEET	4
PLOT DATE:	03-JUL-2014
DRAWN BY:	M. LONGSTREET
CHECKED BY:	EVANS-MONGEON
SHEET	228 OF 245

SCALE 1" = 20' - 0"
20 0 20

SOIL INFORMATION: RIPPOWAM
FINE SANDY LOAM
K = 0.20, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: C

SOIL INFORMATION: UDIPSAMMENTS
K = 0.15, NEARLY LEVEL
HYDROLOGIC SOIL GROUP: NOT RATED

- NOTES:**
- BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.
 - STAGE 2B WORK INCLUDES THE CONSTRUCTION OF ABUTMENT 1 AND ROAD WORK ON RIVER STREET.

FILE: \\CAD01-CAD\Users\jrv\Projects\BRF3000(16) - EC.dwg, Nov 25, 2014, 2:17pm



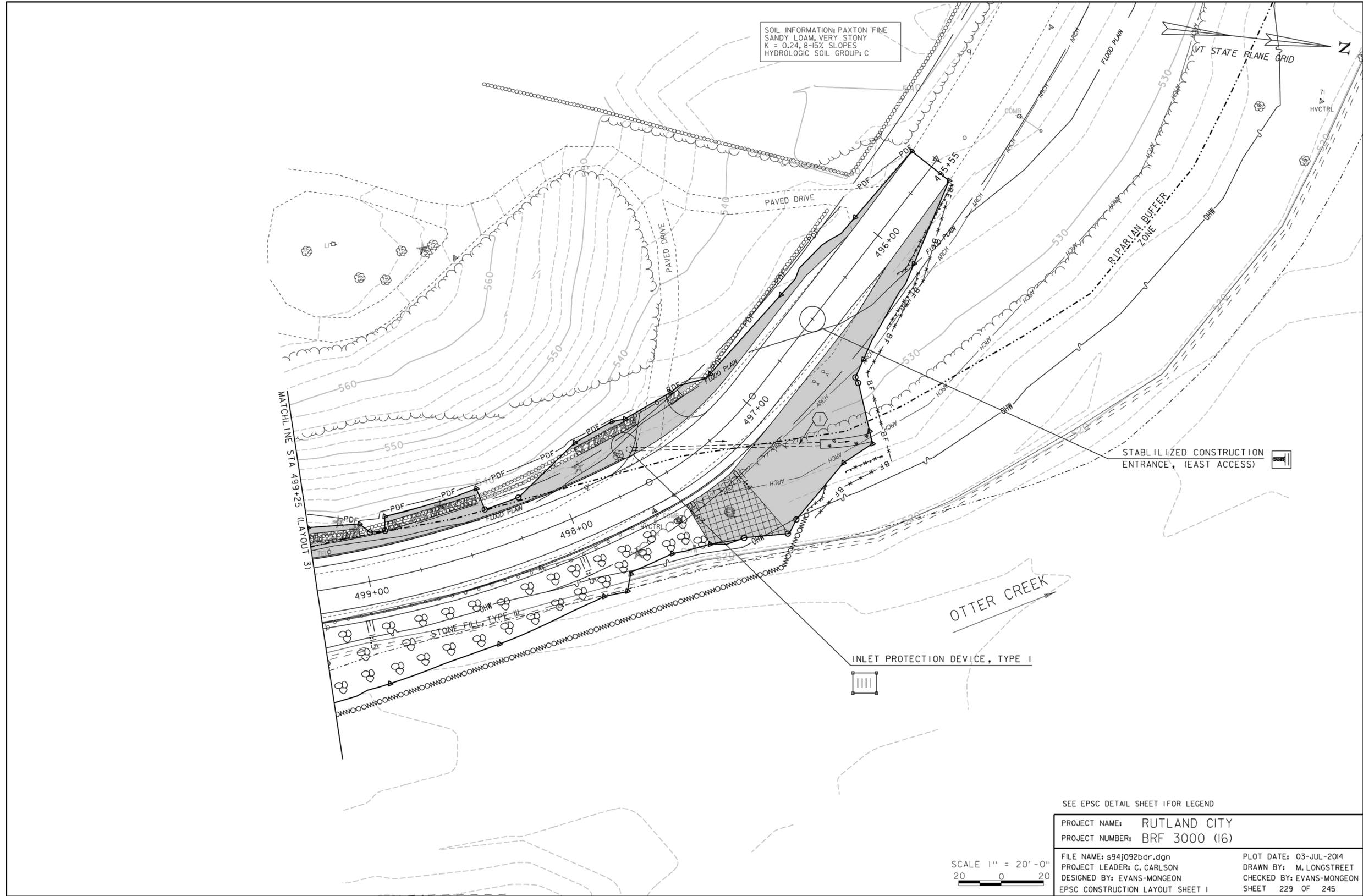
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SCALE 1" = 20' - 0"
20 0 20

PROJECT NAME:	RUTLAND CITY
PROJECT NUMBER:	BRF 3000 (16)
FILE NAME:	s94j092bdr.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	EVANS-MONGEON
EPSC CONSTRUCTION LAYOUT SHEET I	
PLOT DATE:	03-JUL-2014
DRAWN BY:	M. LONGSTREET
CHECKED BY:	EVANS-MONGEON
SHEET	229 OF 245

- NOTES:**
1. BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.
 2. STAGE 4 WORK INCLUDES THE INSTALLATION OF FINAL PERMANENT EROSION CONTROL MEASURES.

REVISIONS	DATE	COMMENTS	BY
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RUTLAND CITY
BRF 3000 (16)

STAGE 4 EROSION CONTROL PLAN 1

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC15

FILE: \\CAD01\cra\k\land\ec15\ec15.dwg
 Plot Date: 11/25/14 2:17pm
 Plot Scale: 1" = 20' - 0"
 Plot Size: 11.00 x 17.00
 Plot Orientation: Landscape
 Plot Range: All
 Plot Style:.ctb
 Plot Color: Black
 Plot Lineweight: 0.20
 Plot Linetype: Solid
 Plot Font: Arial, 10
 Plot Title: STAGE 4 EROSION CONTROL PLAN 1
 Plot Author: M. LONGSTREET
 Plot Project: RUTLAND CITY BRF 3000 (16)
 Plot Date: 11/25/14 2:17pm
 Plot Scale: 1" = 20' - 0"
 Plot Size: 11.00 x 17.00
 Plot Orientation: Landscape
 Plot Range: All
 Plot Style:.ctb
 Plot Color: Black
 Plot Lineweight: 0.20
 Plot Linetype: Solid
 Plot Font: Arial, 10
 Plot Title: STAGE 4 EROSION CONTROL PLAN 1
 Plot Author: M. LONGSTREET
 Plot Project: RUTLAND CITY BRF 3000 (16)



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DATE	COMMENTS	BY

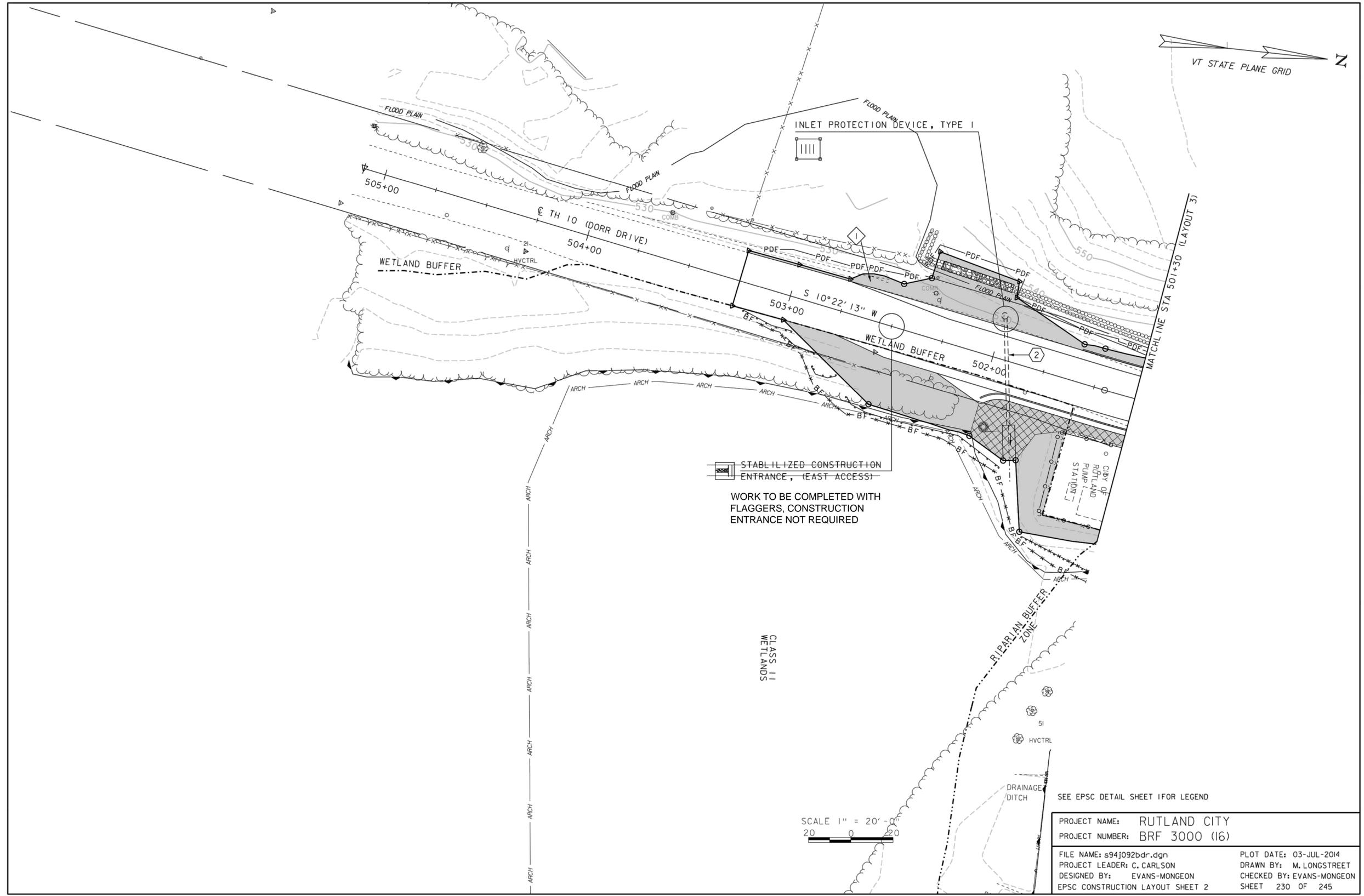
RUTLAND CITY
BRF 3000 (16)

STAGE 4 EROSION CONTROL PLAN 2

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC16



SEE EPSC DETAIL SHEET 1 FOR LEGEND

PROJECT NAME:	RUTLAND CITY
PROJECT NUMBER:	BRF 3000 (16)
FILE NAME:	s94j092bdr.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	EVANS-MONGEON
EPSC CONSTRUCTION LAYOUT SHEET 2	
PLOT DATE:	03-JUL-2014
DRAWN BY:	M. LONGSTREET
CHECKED BY:	EVANS-MONGEON
SHEET	230 OF 245

- NOTES:
1. BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.
 2. STAGE 4 WORK INCLUDES THE INSTALLATION OF FINAL PERMANENT EROSION CONTROL MEASURES.

FILE: \\CAD01\Drawings\VT\Wetlands\BRF3000\Sheet_16.dwg Plot Date: Nov 25, 2014 2:17pm



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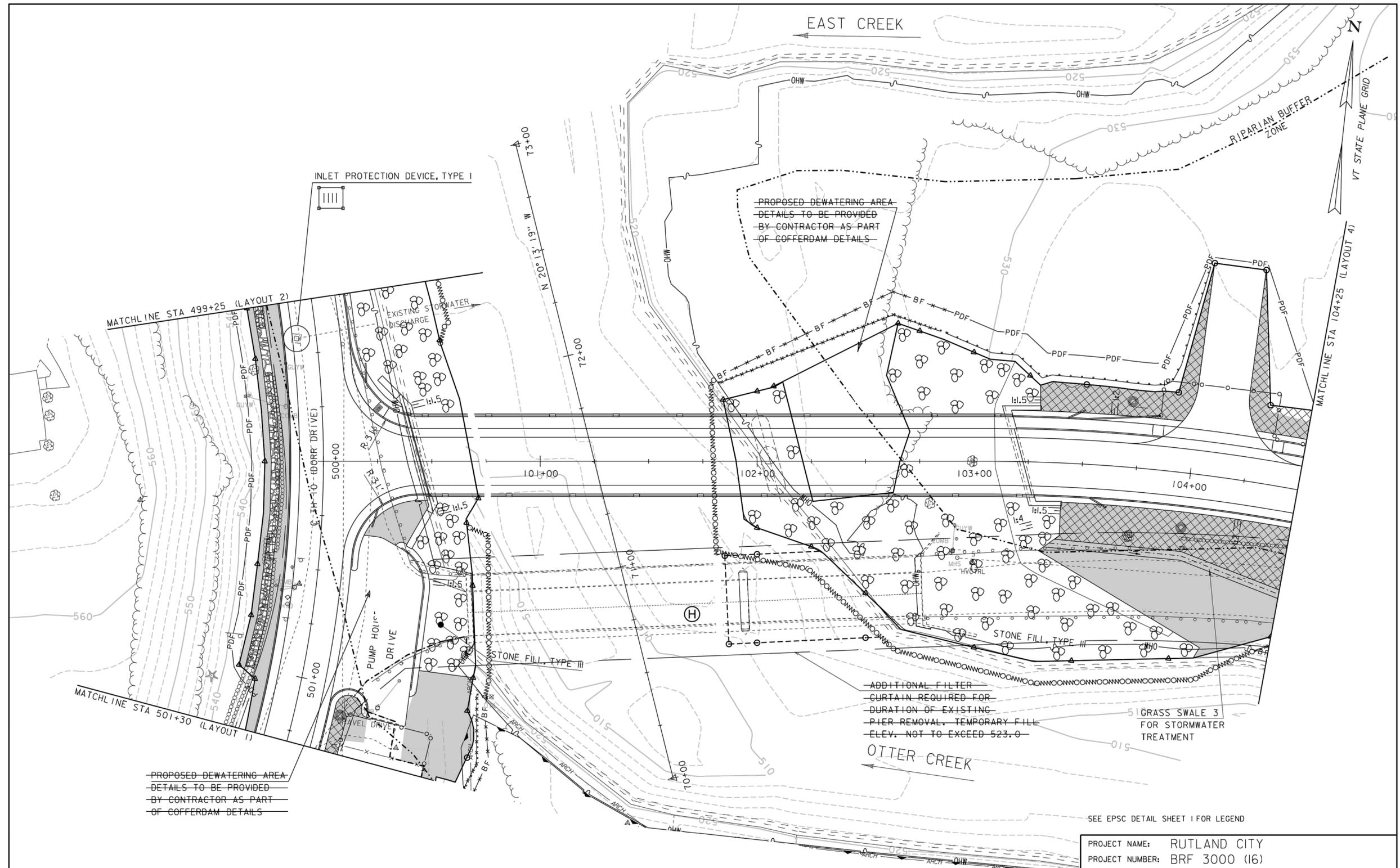
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DATE	COMMENTS	BY



PROPOSED DEWATERING AREA
DETAILS TO BE PROVIDED
BY CONTRACTOR AS PART
OF COFFERDAM DETAILS

PROPOSED DEWATERING AREA
DETAILS TO BE PROVIDED
BY CONTRACTOR AS PART
OF COFFERDAM DETAILS

ADDITIONAL FILTER
CURTAIN REQUIRED FOR
DURATION OF EXISTING
PIER REMOVAL. TEMPORARY FILL
ELEV. NOT TO EXCEED 523.0

5' GRASS SWALE 3
FOR STORMWATER
TREATMENT

SCALE 1" = 20' - 0"
20 0 20

SEE EPSC DETAIL SHEET 1 FOR LEGEND

PROJECT NAME:	RUTLAND CITY
PROJECT NUMBER:	BRF 3000 (16)
FILE NAME:	s94J092bdr.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	EVANS-MONGEON
EPSC CONSTRUCTION LAYOUT SHEET 3	
PLOT DATE:	03-JUL-2014
DRAWN BY:	M. LONGSTREET
CHECKED BY:	EVANS-MONGEON
SHEET	231 OF 245

- NOTES:
- BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.
 - STAGE 4 WORK INCLUDES THE INSTALLATION OF FINAL PERMANENT EROSION CONTROL MEASURES.

RUTLAND CITY
BRF 3000 (16)

STAGE 4 EROSION CONTROL PLAN 3

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC17

FILE: \\CAD01\cadd\msh\vt\ec17\ec17.dwg
 PLOT DATE: 03-JUL-2014 11:25:14 AM
 PLOT BY: M. LONGSTREET



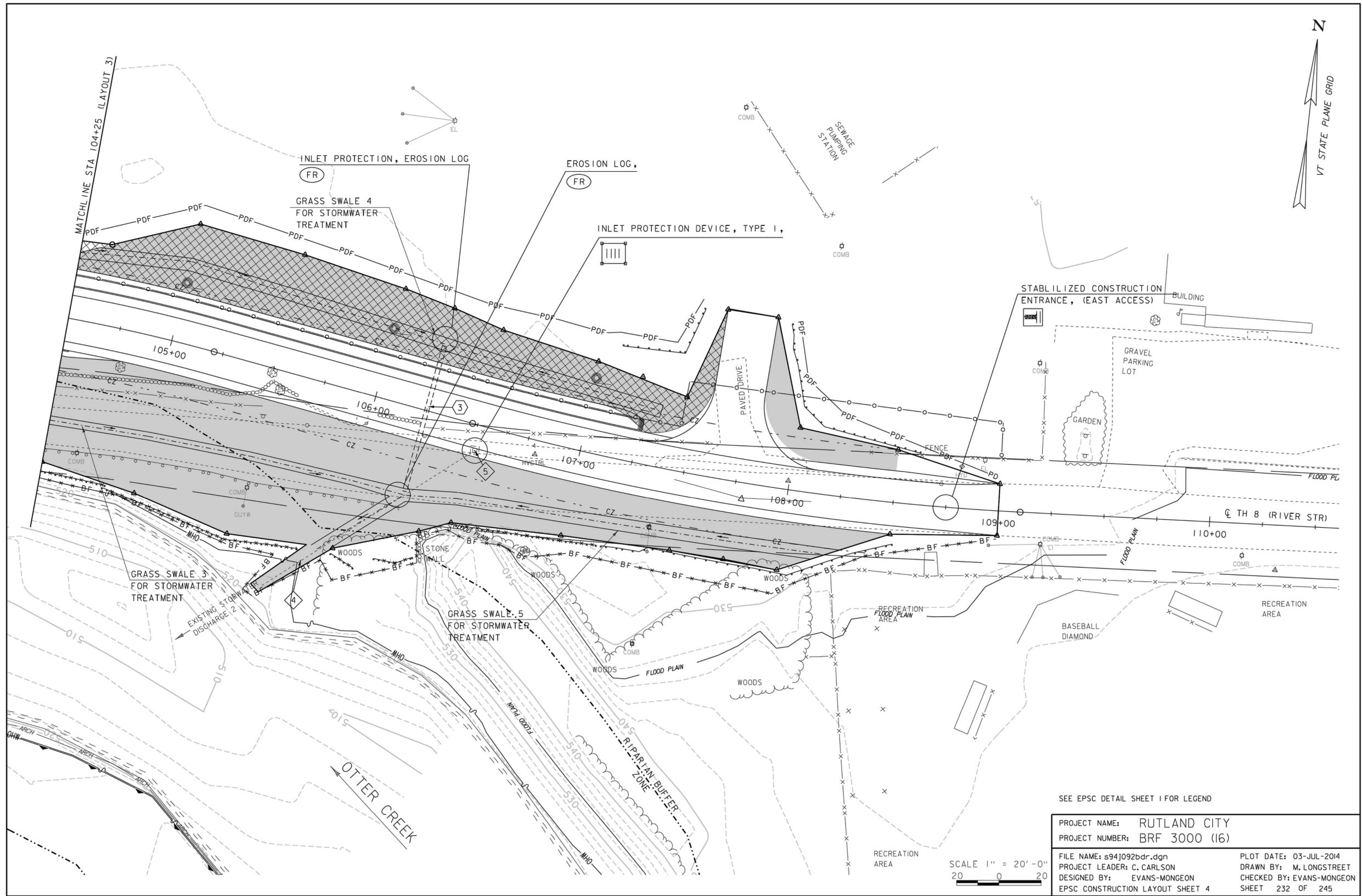
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SEE EPSC DETAIL SHEET 1 FOR LEGEND

PROJECT NAME:	RUTLAND CITY
PROJECT NUMBER:	BRF 3000 (16)
FILE NAME:	s94j092bdr.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	EVANS-MONGEON
EPSC CONSTRUCTION LAYOUT SHEET 4	
PLOT DATE:	03-JUL-2014
DRAWN BY:	M. LONGSTREET
CHECKED BY:	EVANS-MONGEON
SHEET	232 OF 245

NOTES:

1. BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.
2. STAGE 4 WORK INCLUDES THE INSTALLATION OF FINAL PERMANENT EROSION CONTROL MEASURES.

REVISIONS	DATE	COMMENTS	BY

RUTLAND CITY
BRF 3000 (16)

STAGE 4 EROSION CONTROL PLAN 4

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC18

FILE: \\CAD01-CAD\Users\mjl\Projects\BRF3000\Drawings\BRF3000(16) - EC18.dwg, Nov 25, 2014, 2:17pm



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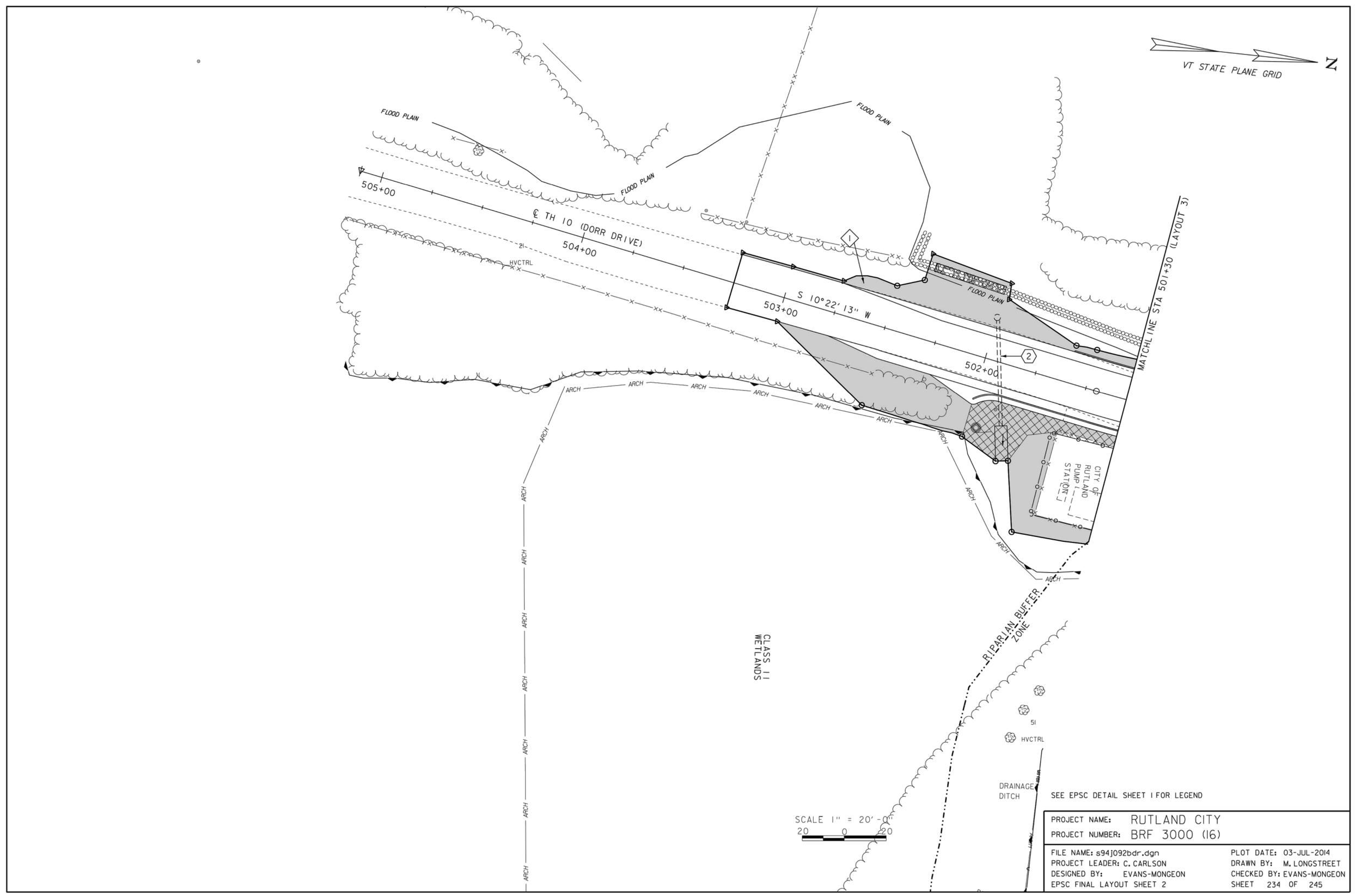
RUTLAND CITY
BRF 3000 (16)

FINAL EROSION CONTROL PLAN 2

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC20



NOTES:

1. BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.

FILE: \\CAD01\proj\2014\11\2014\11-25-14\11-25-14.dwg
 PLOT DATE: 11/25/2014 10:25:14 AM
 PLOT BY: TPK



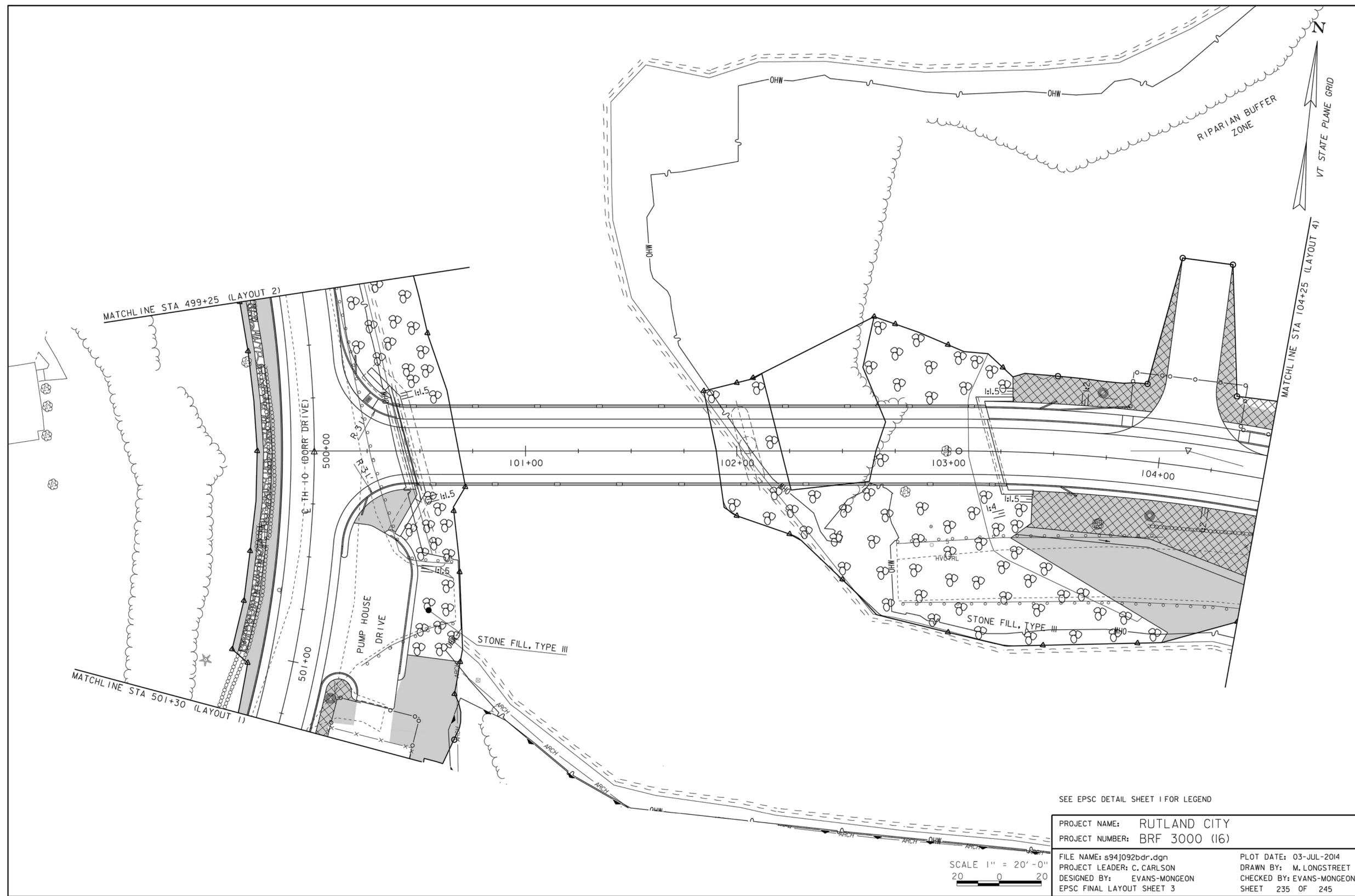
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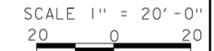


11-25-14



SEE EPSC DETAIL SHEET 1 FOR LEGEND

PROJECT NAME:	RUTLAND CITY	FILE NAME:	s94j092bdr.dgn	PLOT DATE:	03-JUL-2014
PROJECT NUMBER:	BRF 3000 (16)	PROJECT LEADER:	C. CARLSON	DRAWN BY:	M. LONGSTREET
		DESIGNED BY:	EVANS-MONGEON	CHECKED BY:	EVANS-MONGEON
		EPSC FINAL LAYOUT SHEET 3		SHEET 235 OF 245	



NOTES:
1. BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.

REVISIONS	DATE	COMMENTS	BY

RUTLAND CITY
BRF 3000 (16)

FINAL EROSION CONTROL PLAN 3

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC21

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11-25-14

DATE	REVISIONS	BY

RUTLAND CITY
BRF 3000 (16)

EROSION CONTROL DETAILS 2
ABUTMENT 2

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC24

VAOT RURAL AREA MIX					
% WEIGHT	LBS/AC		NAME	GERM %	PURITY %
	BROADCAST	HYDROSEED			
37.5%	22.5	45	CREeping RED FESCUE	85%	98%
37.5%	22.5	45	TALL FESCUE	90%	95%
5.0%	3	6	RED TOP	90%	95%
15.0%	9	18	BIRDSFOOT TREFOIL	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	85%	95%
100%	60	120			

VAOT URBAN AREA MIX					
% WEIGHT	LBS/AC		NAME	GERM %	PURITY %
	BROADCAST	HYDROSEED			
42.5%	34	68	CREeping RED FESCUE	85%	98%
10.0%	8	16	PERENNIAL RYE GRASS	90%	95%
42.5%	34	68	KENTUCKY BLUE GRASS	85%	85%
5.0%	4	8	ANNUAL RYE GRASS	85%	95%
100%	80	160			

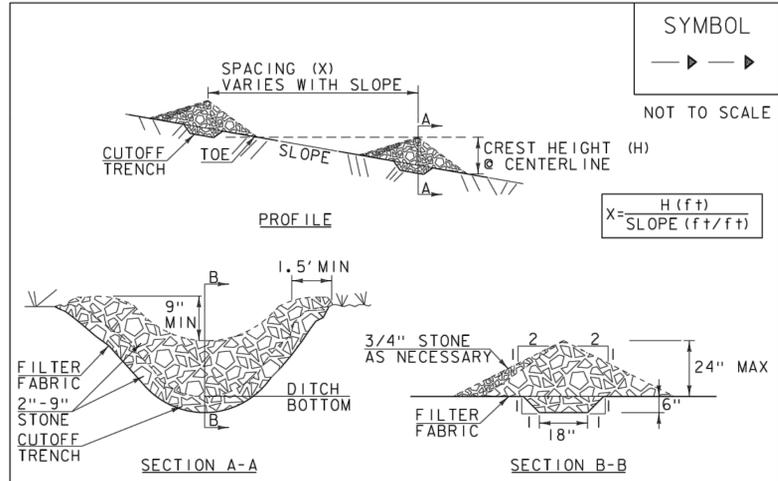
SOIL AMENDMENT GUIDANCE			
FERTILIZER		LIME	
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED
10-20-10	FOLLOW	PELLETIZED	FOLLOW
500 LBS/AC	MANUFACTURER	2 TONS/AC	MANUFACTURER

- CONSTRUCTION GUIDANCE**
- RURAL SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
 - URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
 - ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
 - FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
 - HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
 - TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
 - HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
 - TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES		TURF ESTABLISHMENT	
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.15)		REVISIONS	
		JUNE 23, 2009	WHF
		JANUARY 15, 2010	WHF
		FEBRUARY 16, 2011	WHF

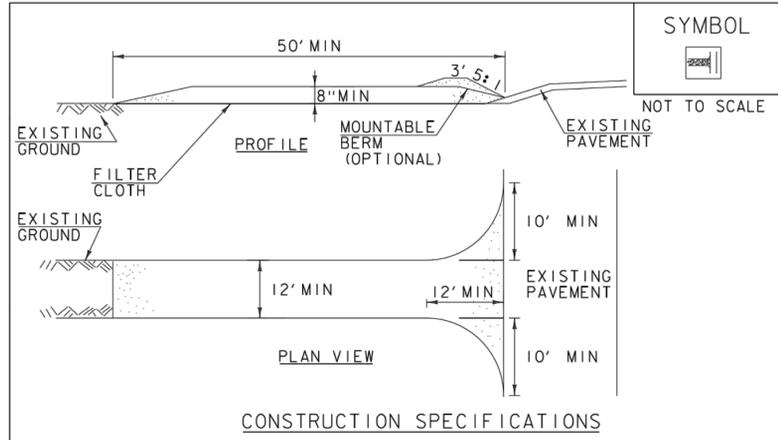
PROJECT NAME:	RUTLAND CITY
PROJECT NUMBER:	BRF 3000 (16)
FILE NAME:	s94j092erodet.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	M. EVANS-MONGEON
EPSC DETAIL SHEET	2
PLOT DATE:	03-JUL-2014
DRAWN BY:	M. LONGSTREET
CHECKED BY:	EVANS-MONGEON
SHEET	238 OF 245

NOTES:
1. BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.



- CONSTRUCTION SPECIFICATIONS**
- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
 - CHECK DAMS SHALL BE SPACED SO THAT THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
 - 3/4" FILTERING STONE MAY BE ADDED TO THE FACE OF THE CHECK DAM AS NECESSARY.
 - EXTEND THE STONE A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 - PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
 - ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
 - MAXIMUM DRAINAGE AREA 2 ACRES.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC ORIGINALLY DEVELOPED BY USDA-NRCS VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION		CHECK DAM	
NOTES: REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.		REVISIONS	
		MARCH 21, 2008	WHF
		JANUARY 8, 2009	WHF
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR TEMPORARY STONE CHECK DAM, TYPE 1 (PAY ITEM 653.25)			



- CONSTRUCTION SPECIFICATIONS**
- STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
 - THICKNESS- NOT LESS THAN 8".
 - WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
 - GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
 - SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 - MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC ORIGINALLY DEVELOPED BY USDA-NRCS VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION		STABILIZED CONSTRUCTION ENTRANCE	
NOTES: REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.		REVISIONS	
		MARCH 24, 2008	WHF
		JANUARY 13, 2009	WHF
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR VEHICLE TRACKING PAD (PAY ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.			

I:\E:\V\030_Cities\ Rutland\ V\ Rutland\ Bridge\ New Street\ Bridge\ BRF3000(16) - EC.dwg Nov 25, 2014 - 2:15pm



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REVISIONS	DATE	COMMENTS	BY

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BRF 3000 (16)

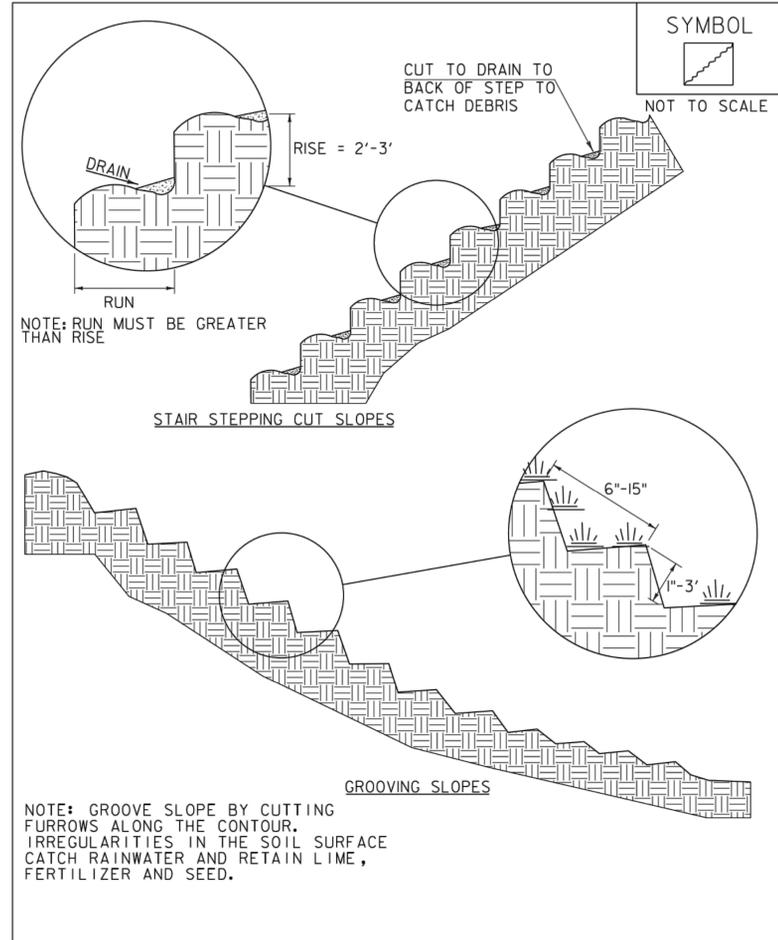
EROSION CONTROL DETAILS 3

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

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SHEET 25 OF 27



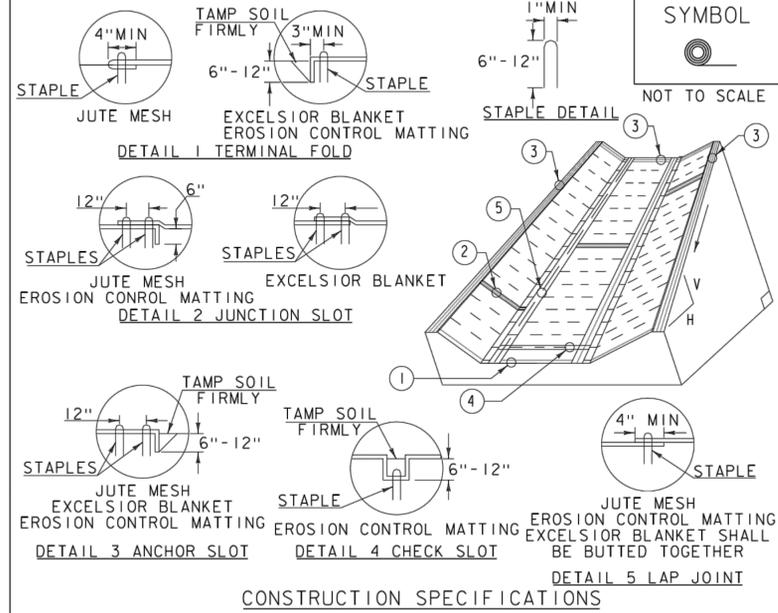
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SURFACE ROUGHENING

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS	DATE	BY



1. EROSION MATTING, CHECK SLOTS, SHALL BE SPACED IN DITCH CHANNEL SO THAT ONE OCCURS WITHIN EACH 50' ON SLOPES OF MORE THAN 4% AND LESS THAN 6%. ON SLOPES OF 6% OR MORE, THEY SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 25'.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4' X 225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4' X 150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

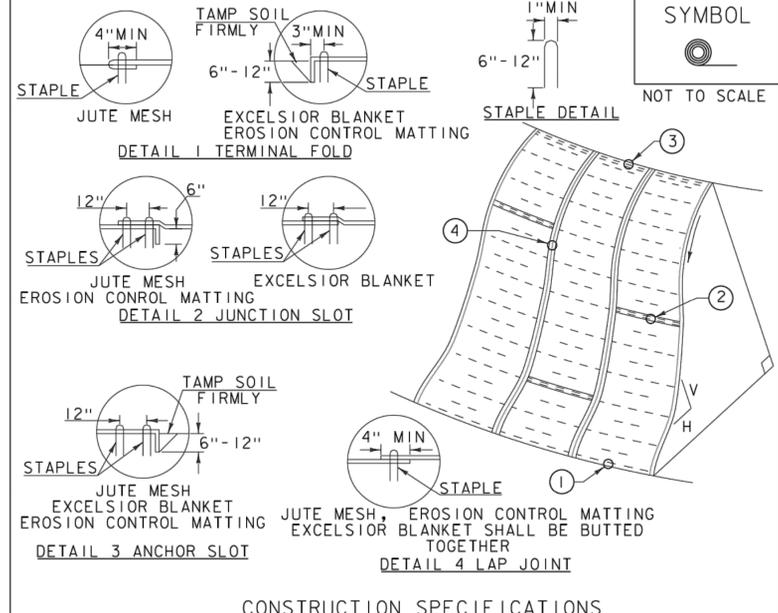
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VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION CONTROL PRODUCT (RECP) DITCH

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

REVISIONS	DATE	BY



1. APPLY TO SLOPES GREATER THAN 3H: 1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4' X 225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4' X 150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

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ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

REVISIONS	DATE	BY

PROJECT NAME:	RUTLAND CITY
PROJECT NUMBER:	BRF 3000 (16)
FILE NAME:	s94j092erode+.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	M. EVANS-MONGEON
EROSION CONTROL PRODUCT (RECP) DITCH	
EROSION CONTROL PRODUCT (RECP) SIDE SLOPE	
PLOT DATE:	03-JUL-2014
DRAWN BY:	M. LONGSTREET
CHECKED BY:	EVANS-MONGEON
SHEET	239 OF 245

NOTES:
1. BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.

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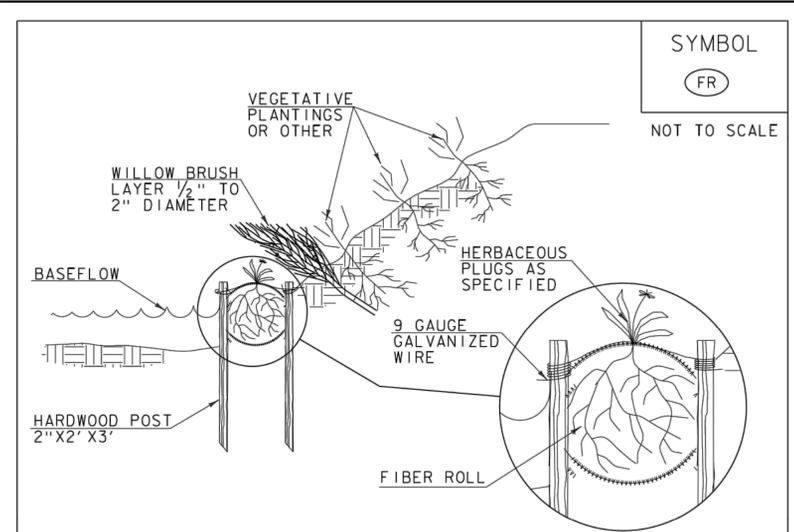
RUTLAND CITY
BRF 3000 (16)

EROSION CONTROL DETAILS 4

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC26



SYMBOL
FR
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

- EXCAVATE A SHALLOW TRENCH SLIGHTLY BELOW BASEFLOW OR A 4" TRENCH ON SLOPE CONTOURS
- PLACE THE ROLL IN THE TRENCH AND ANCHOR WITH 2"x2" POSTS PLACED ON BOTH SIDES OF THE ROLL AND SPACED LATERALLY ON 2' TO 4' CENTERS. TRIM THE TOP OF THE POSTS EVEN WITH THE EDGE OF THE ROLL, IF NECESSARY.
- NOTCH THE POSTS AND TIE TOGETHER, ACROSS THE ROLL, WITH 9 GAUGE GALVANIZED WIRE OR 1/8" DIAMETER BRAIDED NYLON ROPE.
- PLACE SOIL EXCAVATED FROM THE TRENCH BEHIND THE ROLL AND HAND TAMP. PLANT WITH SUITABLE HERBACEOUS OR WOODY VEGETATION AS SPECIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS. VEGETATION SHALL BE PLACED IMMEDIATELY ADJACENT TO THE ROLL TO PROMOTE ROOT GROWTH INTO THE FIBER. HERBACEOUS VEGETATION, IF SPECIFIED, SHALL BE PLANTED INTO THE FIBER ROLL.

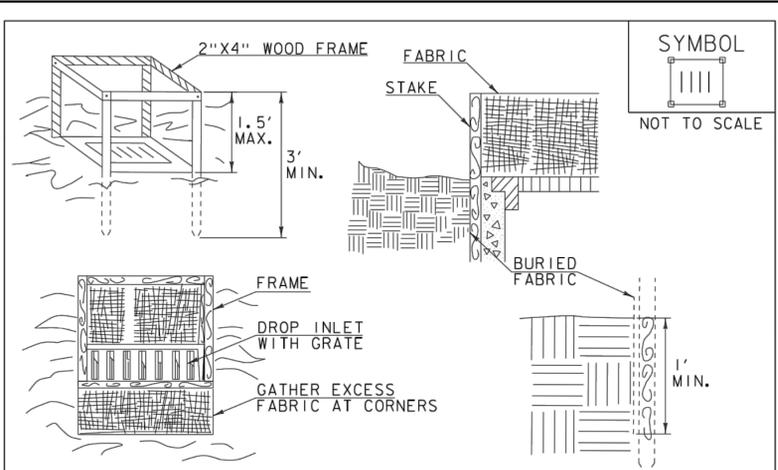
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ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**FIBER ROLL
(EROSION LOG)**

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

REVISIONS	
MARCH 21, 2008	WHF
JANUARY 13, 2009	WHF

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR EROSION LOG (PAY ITEM 653.60)



SYMBOL
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

- FILTER FABRIC SHALL HAVE AN APPARENT OPENING SIZE OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
- CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
- STAKE MATERIALS WILL BE STANDARD 2"x4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3'.
- SPACE STAKES EVENLY AROUND INLET 3' APART AND DRIVE A MINIMUM 18" DEEP. SPANS GREATER THAN 3' MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
- FABRIC SHALL BE EMBEDDED 1' MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
- A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
- MAXIMUM DRAINAGE AREA 1 ACRE

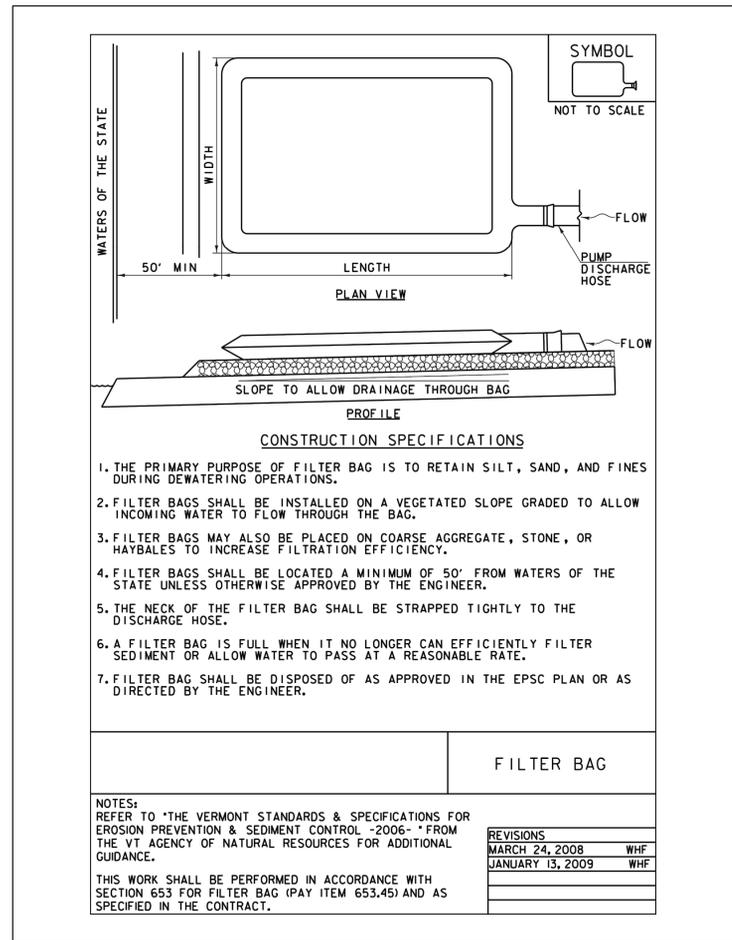
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**FILTER FABRIC
DROP INLET
PROTECTION**

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

REVISIONS	
MARCH 7, 2008	WHF
JANUARY 13, 2009	WHF

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR INLET PROTECTION DEVICE, TYPE 1 (PAY ITEM 653.40).



SYMBOL
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

- THE PRIMARY PURPOSE OF FILTER BAG IS TO RETAIN SILT, SAND, AND FINES DURING DEWATERING OPERATIONS.
- FILTER BAGS SHALL BE INSTALLED ON A VEGETATED SLOPE GRADED TO ALLOW INCOMING WATER TO FLOW THROUGH THE BAG.
- FILTER BAGS MAY ALSO BE PLACED ON COARSE AGGREGATE, STONE, OR HAYBALES TO INCREASE FILTRATION EFFICIENCY.
- FILTER BAGS SHALL BE LOCATED A MINIMUM OF 50' FROM WATERS OF THE STATE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- THE NECK OF THE FILTER BAG SHALL BE STRAPPED TIGHTLY TO THE DISCHARGE HOSE.
- A FILTER BAG IS FULL WHEN IT NO LONGER CAN EFFICIENTLY FILTER SEDIMENT OR ALLOW WATER TO PASS AT A REASONABLE RATE.
- FILTER BAG SHALL BE DISPOSED OF AS APPROVED IN THE EPSC PLAN OR AS DIRECTED BY THE ENGINEER.

FILTER BAG

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR FILTER BAG (PAY ITEM 653.45) AND AS SPECIFIED IN THE CONTRACT.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF

PROJECT NAME:	RUTLAND CITY
PROJECT NUMBER:	BRF 3000 (16)
FILE NAME:	s94j092erodet.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	M. EVANS-MONGEON
EPSC DETAIL SHEET	4
PLOT DATE:	03-JUL-2014
DRAWN BY:	M. LONGSTREET
CHECKED BY:	EVANS-MONGEON
SHEET	240 OF 245

NOTES:
1. BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.



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11-25-14

REVISIONS
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DATE	COMMENTS	BY

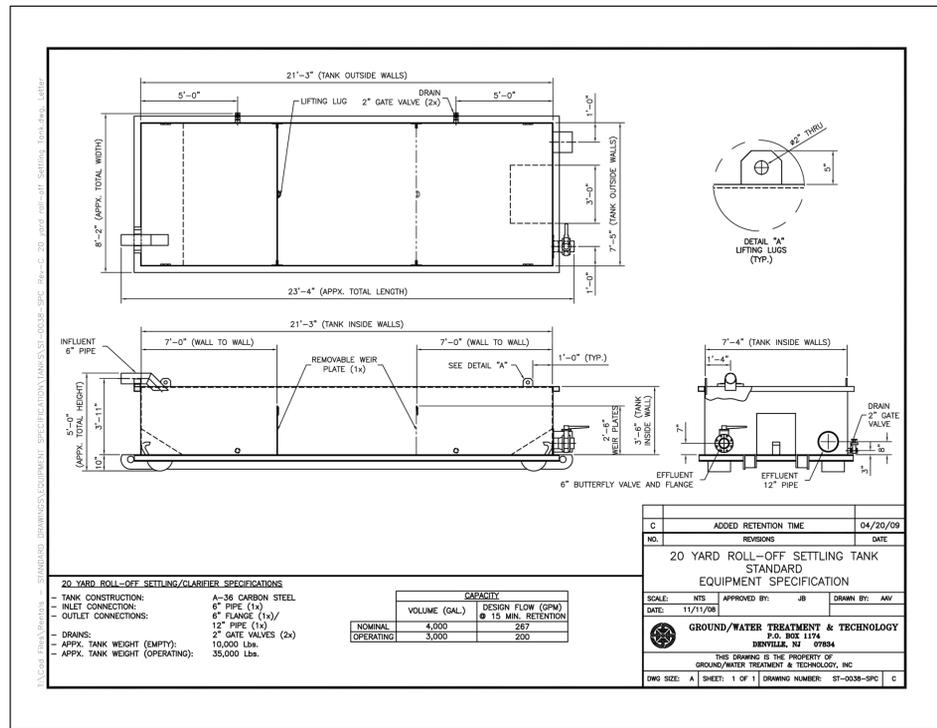
RUTLAND CITY
BRF 3000 (16)

EROSION CONTROL DETAILS 5

CITY OF RUTLAND, VERMONT

Project #	---
Project Mgr.	TPK
Design by	TPK
Drawn by	TPK
Reviewed by	NRJ
Approved by	TPK
Date	NOVEMBER 24, 2014
Scale	AS SHOWN

EC27



NOTES:
1. BASE PLAN IS FROM RUTLAND CITY BRF 3000 (16) PLANS BY VAOT DATED 7/3/2014.



November 25, 2014

Rutland City BRF3000 (16)

Tom Nassivera has been intimately involved in the EPSC portion of many VAoT and NYS DOT projects. He has served as project superintendent and been responsible for all onsite activities during several projects. He holds current NYS DEC erosion and sediment control training (see attached).

He has played a vital role in the EPSC aspect of many projects. One of these projects for VAoT was:

Bennington AC NH 019-1(51) 2010

Tom has previously held the On Site Plan Coordinator position on other VAoT projects. Two of the most recent projects were:

Pittsfield-Stockbridge STP 022-1(22)S 2011
Hartland BHF BPNT (12) 2014

Tom has consistently demonstrated his knowledge of, and commitment to the EPSC aspect of projects. He will successfully fill the role of On Site Plan Coordinator again for this project.



**Certificate of Erosion & Sediment
Control Training**

Name: Thomas A Nassivera

Trainee SWT# 16-T-041714-37

Division of Water

Date of

Training:

4/17/2014

SW Web Page:

Instructor Name/ID

James R Lieberum #16-T

Signature:

<http://www.dec.ny.gov/chemical/8699.html>

Expires 3 years from training date

OFF-SITE ACTIVITY SUBMITTAL



- This form is to be completed in its entirety by the Contractor/District Tech when proposing any waste, borrow, or staging area or any work outside the defined Contract construction limits.
- Submit to Karen Spooner: karen.spooner@state.vt.us, Phone: (802)828-2169, Fax: (802)828-2334, VTrans Program Development Division, Environmental Section, One National Life Drive, Montpelier, VT 05633-5001
- Submit a copy to the Resident Engineer
- Allow 21 calendar days (see Section 105.25 (c) of the VTrans Standard Specifications For Construction) for review once the application is administratively complete.

SUBMITTAL INFORMATION

Project Name/District: Rutland City BRF3000 (16) Contractor/District Tech: Kubricky Construction Corp
 Contact: Harper Callahan Phone: (518)792-5864 Fax: (518) 796-2458 E-mail: HCallahan@dacollins.com
 Resident Engineer: Tim Pockette Phone: _____ Fax: Tim.Pockette@state.vt.us

PROPOSAL INFORMATION (Select one type of area being proposed for use per submittal and describe associated characteristics)

Waste Borrow Staging Other (ex. dewatering location): _____
 Material: Type (asphalt, concrete, earthen, etc.) EARTHEN / 40.00 Quantity (yds³) 3000 + cy/yr
 Total Area of Land Disturbance (sq ft) _____ Spoils Excavated from project 3000cy
 Additional Info: _____

LANDOWNER/PROPERTY INFO (Fill all applicable boxes; attach a Location Map and Sketch of Area)

Name: Elnicki Aggregate, Inc. Address: 49 Water St. Rutland, VT 05701 Phone: (802) 795-7722
 Print Name _____
 Private Residential/Commercial Town/State Owned Facility 1358 COLD RIVER RD Other
CLARENDON VT 1358 Cold River Dr
 Additional Info: _____
 Are there other users of this site? Yes No
 Known past uses: gravel & sand extraction & processing
 Location Map (must be USGS Geological Survey Map (7.5'))
 Sketch of Area: North arrow Approx scale Remarkable features:
 Permit Info: 1R0567 & 1R0567-2
 Act 250 Permit Exists? Yes No If Yes, # 1R0567-1R0567-2 Copy Enclosed? Yes No
 List of Other Existing Permits: _____

Landowner Agreement (Signature is required for all private, town-, and state-owned properties).
 I, [Signature] warrant that the information in the above permit application is accurate and agree
 Landowner/Facility Manager Signature
 to the use of the proposed area by Chauvin Construction as shown on the attached sketch. If acting as the agent of
 Name of Contractor
 the Landowner, I warrant (1) that the Landowner has the full right, power, and authority to authorize the proposed use, (2) that I am
 authorized to act as the Landowner's agent, and (3) that my authority to act as the Landowner's agent has not been revoked.
 Date: 11/6/14

This clearance is for the Natural and Cultural Resources Only.

OFF-SITE ACTIVITY EXEMPTION RECORD



To be completed by the Contractor and filed with the Resident Engineer.
Check the appropriate exemption category from the boxes below.

Staging Area Exemptions

The placement of construction trailers, equipment, and/or non-erodible materials

- On existing paved or gravel surfaces which will not require any additional earth disturbance (not in Special Flood Hazard Areas or Fish and Wildlife Management access areas).

Borrow Site Exemptions

- Existing, in-use gravel pits which have an Act 250 Permit as long as the use does not modify the conditions of said permit (Act 250 Permit # provided by Contractor)
- Existing, in-use, commercial gravel pits that are "Grandfathered" from the Act 250 Permit Review Process as long as a landowner signature is provided
- Inter-project Material Usage - The use of surplus materials from one project as borrow for another in which the owner and contractor are the same in both projects and neither involve work outside the respective contract construction limits

Waste Disposal Exemptions

- The use of project generated Solid Wastes to build the same project, or another project owned by the same entity
- Batch plants for recycling of materials and subsequent re-use
- The disposal of any (erodible or non-erodible) materials in an existing shed at any public transportation facility to which the material will be stored for later re-use
- Existing, in-use gravel pits which have an Act 250 Permit as long as the use does not modify the conditions of said permit (Act 250 Permit # provided by Contractor)
- Existing, in-use, commercial gravel pits that are "Grandfathered" from the Act 250 Permit Review Process as long as a landowner signature is provided
- Inter-project Material Usage - The use of surplus materials from one project as borrow for another in which the owner and contractor are the same in both projects and neither involve work outside the respective contract construction limits
- The disposal of hazardous materials at a facility which has been reviewed and approved by the Agency's Hazardous Materials Specialist

Project Name: Rutland Bridge Project Rutland City BRF3000 (16)/(19)

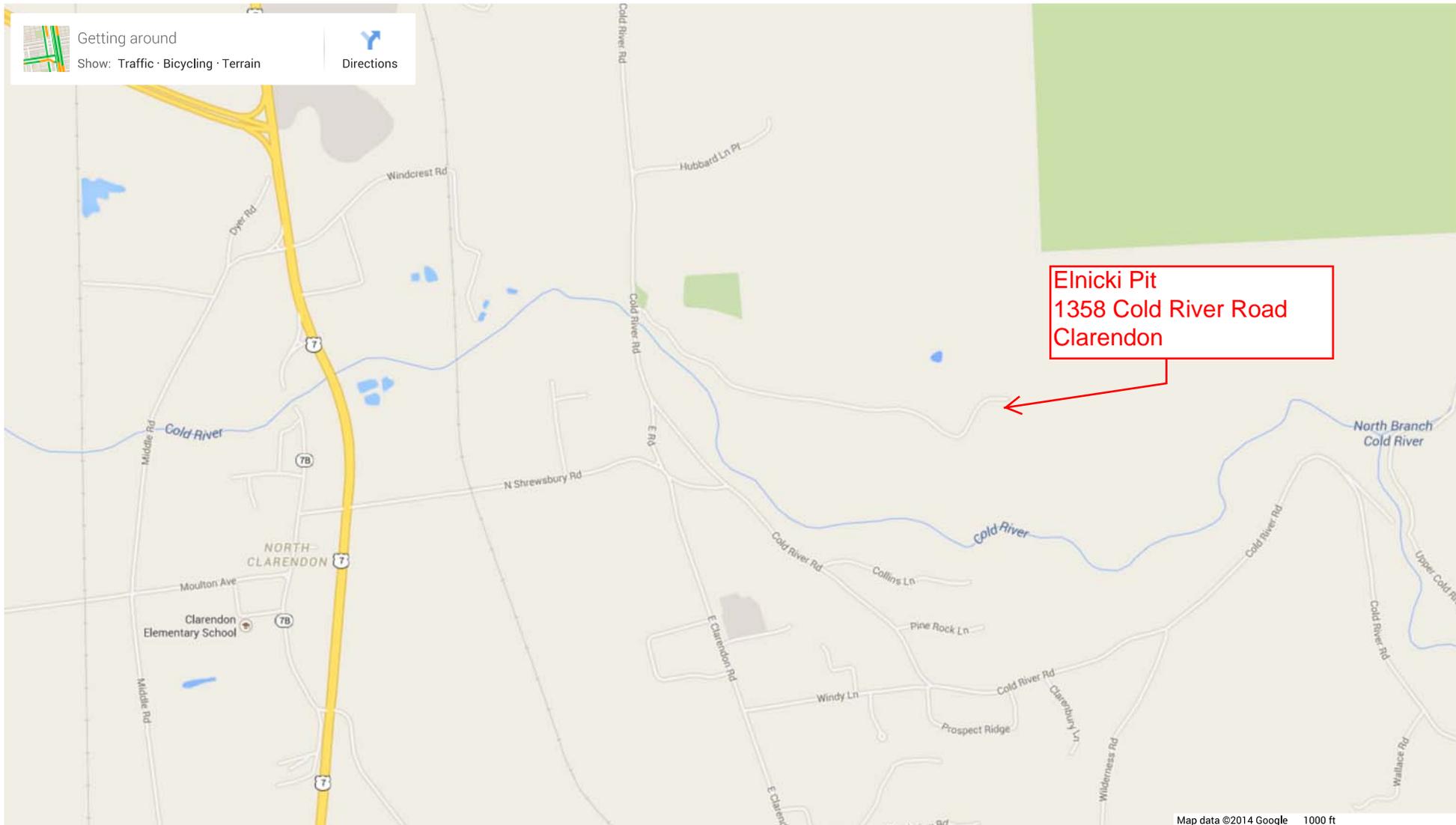
Proposed Area Name: _____

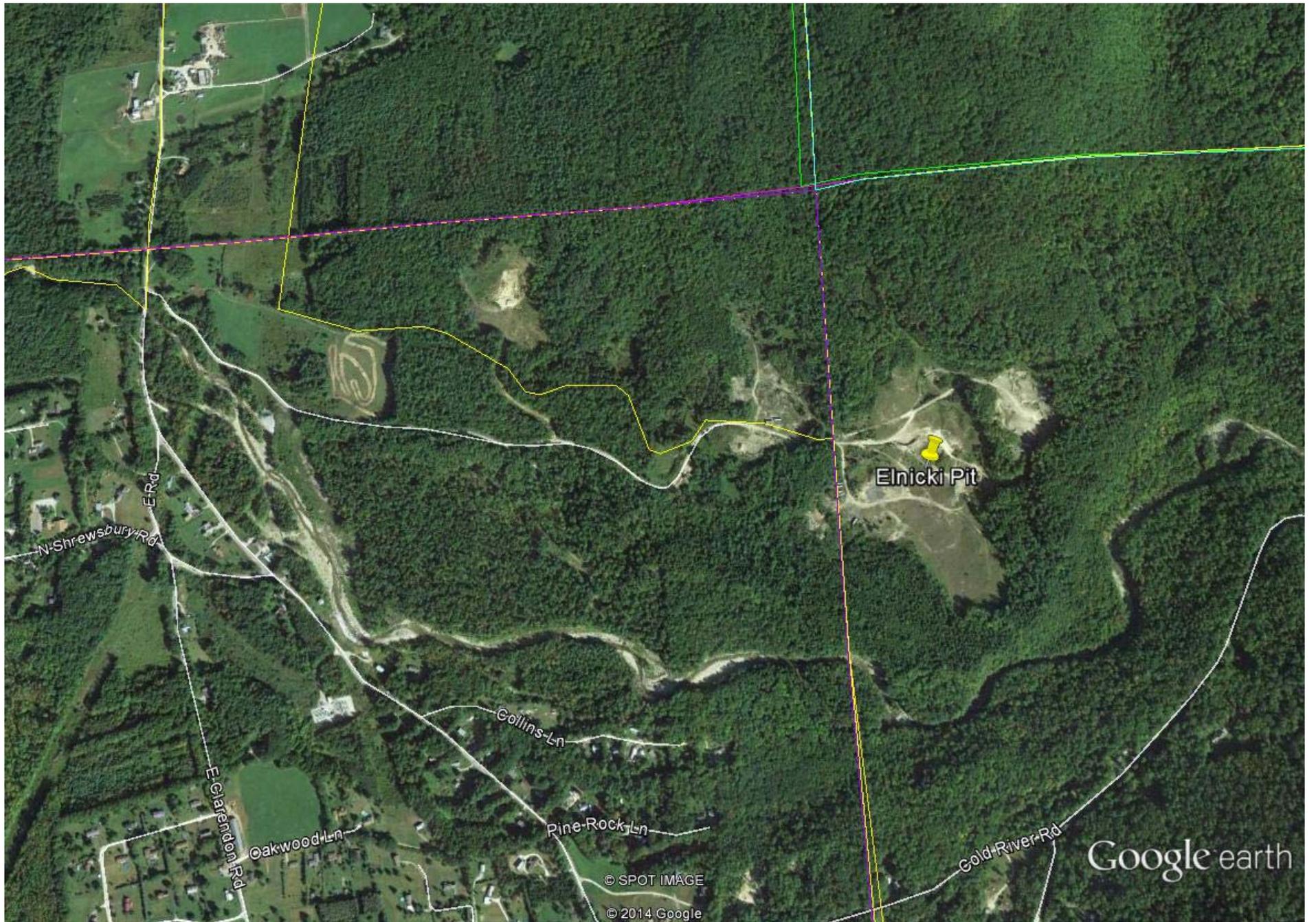
Contractor Signature: 

1R0567 1R0567-2

Act 250 Permit # (for Existing, In-use sites) 1R0567 thru 1R0567-2

Act 250 Grandfathered Signature _____
(Owner or authorized representative)





Elnicki Pit

N-Shrewsbury Rd

E Rd

E Claremont Rd

Oakwood Ln

Collins Ln

Pine Rock Ln

Gold River Rd

Google earth



© SPOT IMAGE
© 2014 Google

Google earth



OFF-SITE ACTIVITY EXEMPTION RECORD



To be completed by the Contractor and filed with the Resident Engineer.
Check the appropriate exemption category from the boxes below.

Staging Area Exemptions

The placement of construction trailers, equipment, and/or non-erodible materials

- On existing paved or gravel surfaces which will not require any additional earth disturbance(not in Special Flood Hazard Areas or Fish and Wildlife Management access areas).

Borrow Site Exemptions

- Existing, in-use gravel pits which have an Act 250 Permit as long as the use does not modify the conditions of said permit (Act 250 Permit # provided by Contractor)
- Existing, in-use, commercial gravel pits that are "Grandfathered" from the Act 250 Permit Review Process as long as a landowner signature is provided
- Inter-project Material Usage - The use of surplus materials from one project as borrow for another in which the owner and contractor are the same in both projects and neither involve work outside the respective contract construction limits

Waste Disposal Exemptions

- The use of project generated Solid Wastes to build the same project, or another project owned by the same entity
- Batch plants for recycling of materials and subsequent re-use
- The disposal of any (erodible or non-erodible) materials in an existing shed at any public transportation facility to which the material will be stored for later re-use
- Existing, in-use gravel pits which have an Act 250 Permit as long as the use does not modify the conditions of said permit (Act 250 Permit # provided by Contractor)
- Existing, in-use, commercial gravel pits that are "Grandfathered" from the Act 250 Permit Review Process as long as a landowner signature is provided
- Inter-project Material Usage - The use of surplus materials from one project as borrow for another in which the owner and contractor are the same in both projects and neither involve work outside the respective contract construction limits
- The disposal of hazardous materials at a facility which has been reviewed and approved by the Agency's Hazardous Materials Specialist

Project Name: Rutland City BRF 3000(19) + BRF 3000(16)

Proposed Area Name: Office + Staging Area at 251 West Rd. Rutland, VT

Landowner Signature: _____ Greg Cox: (802) 683-4606

Act 250 Permit # (for Existing, In-use sites) N/A

Act 250 Grandfathered Signature N/A _____
(Owner or authorized representative)-

Submitted by: Harper Callahan
Kubricky Const. 11/13/14

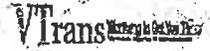


Google earth

feet
meters



OFF-SITE ACTIVITY SUBMITTAL



- This form is to be completed in its entirety by the Contractor/District Tech when proposing any waste, borrow, or staging area or any work outside the defined Contract construction limits.
- Submit to Karen Spooner: karen.spooner@state.vt.us, Phone: (802)828-2169, Fax: (802)828-2334, VTTrans Program Development Division, Environmental Section, One National Life Drive, Montpelier, VT 05633-5001
- Submit a copy to the Resident Engineer
- Allow 21 calendar days (see Section 105.25 (c) of the VTTrans Standard Specifications For Construction) for review once the application is administratively complete.
- SUBMITTAL INFORMATION Rutland City BRF3000 (16)/(19)

Project Name/District: _____ Contractor/District Tech: Kubricky Construction Corp.
Contact: Harper Callahan Phone: (518) 792-5864 Fax: (518) 796-2458 E-mail: HarperCallahan@dacollins.com
Resident Engineer: Tim Pockette Phone: _____ Fax: Tim.Pockette@state.vt.us

▪ PROPOSAL INFORMATION (Select one type of area being proposed for use per submittal and describe associated characteristics)

Waste Borrow Staging Other (ex. dewatering location): Waste Area
Material: Type (asphalt, concrete, earthen, etc.) EARTHEN Quantity (yds³) 1000cy
Total Area of Land Disturbance (sq ft) _____ Spoil Material Excavated from Project Site
Additional Info: _____

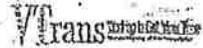
▪ LANDOWNER/PROPERTY INFO (Fill all applicable boxes; attach a Location Map and Sketch of Area)

Name: TRIPLE C LLC Address: PO BOX 60 Phone: 802 775-2301
Print Name: _____
 Private Residential/Commercial Town/State Owned Facility Other
Additional Info: _____
Are there other users of this site? Yes No
Known past uses: SNOW STORAGE, CONCRETE PLANT
 Location Map (must be USGS Geological Survey Map (7.5'))
 Sketch of Area: North arrow Approx scale Recognizable features
Permit Info:
Act 250 Permit Exists? Yes No If Yes, # _____ Copy Enclosed? Yes No
List of Other Existing Permits: _____

Landowner Agreement (Signature is required for all private-, town-, and state-owned properties)
[Signature], warrant that the information in the above permit application is accurate and agree
Landowner/Facility Manager Signature
to the use of the proposed area by CHAMPAIN CONES as shown on the attached sketch. If acting as the agent of
Name of Contractor
the Landowner, I warrant (1) that the Landowner has the full right, power, and authority to authorize the proposed use, (2) that I am authorized to act as the Landowner's agent, and (3) that my authority to act as the Landowner's agent has not been revoked.
Date: 11-14-14

This clearance is for the Natural and Cultural Resources Only.

OFF-SITE ACTIVITY EXEMPTION RECORD



To be completed by the Contractor and filed with the Resident Engineer.
Check the appropriate exemption category from the boxes below.

Staging Area Exemptions

The placement of construction trailers, equipment, and/or non-erodible materials

- On existing paved or gravel surfaces which will not require any additional earth disturbance(not in Special Flood Hazard Areas or Fish and Wildlife Management access areas):

Borrow Site Exemptions

- Existing, in-use gravel pits which have an Act 250 Permit as long as the use does not modify the conditions of said permit (Act 250 Permit # provided by Contractor)
- Existing, in-use, commercial gravel pits that are "Grandfathered" from the Act 250 Permit Review Process as long as a landowner signature is provided
- Inter-project Material Usage - The use of surplus materials from one project as borrow for another in which the owner and contractor are the same in both projects and neither involve work outside the respective contract construction limits

Waste Disposal Exemptions

- The use of project generated Solid Wastes to build the same project, or another project owned by the same entity
- Batch plants for recycling of materials and subsequent re-use
- The disposal of any (erodible or non-erodible) materials in an existing shed at any public transportation facility to which the material will be stored for later re-use
- Existing, in-use gravel pits which have an Act 250 Permit as long as the use does not modify the conditions of said permit (Act 250 Permit # provided by Contractor)
- Existing, in-use, commercial gravel pits that are "Grandfathered" from the Act 250 Permit Review Process as long as a landowner signature is provided
- Inter-project Material Usage - The use of surplus materials from one project as borrow for another in which the owner and contractor are the same in both projects and neither involve work outside the respective contract construction limits
- The disposal of hazardous materials at a facility which has been reviewed and approved by the Agency's Hazardous Materials Specialist

Project Name: Rutland City BRF3000 (16)/(19)

Proposed Area Name: JP Carrara Waste Area

Landowner Signature:  _____

Act 250 Permit # (for Existing, In-use sites) _____

Act 250 Grandfathered Signature  _____
(Owner or authorized representative)-

Print

Rutland Vt Rutland.TripAdvisor.com Research Rutland Hotels, Rutland Deals, and Rutland Attractions!

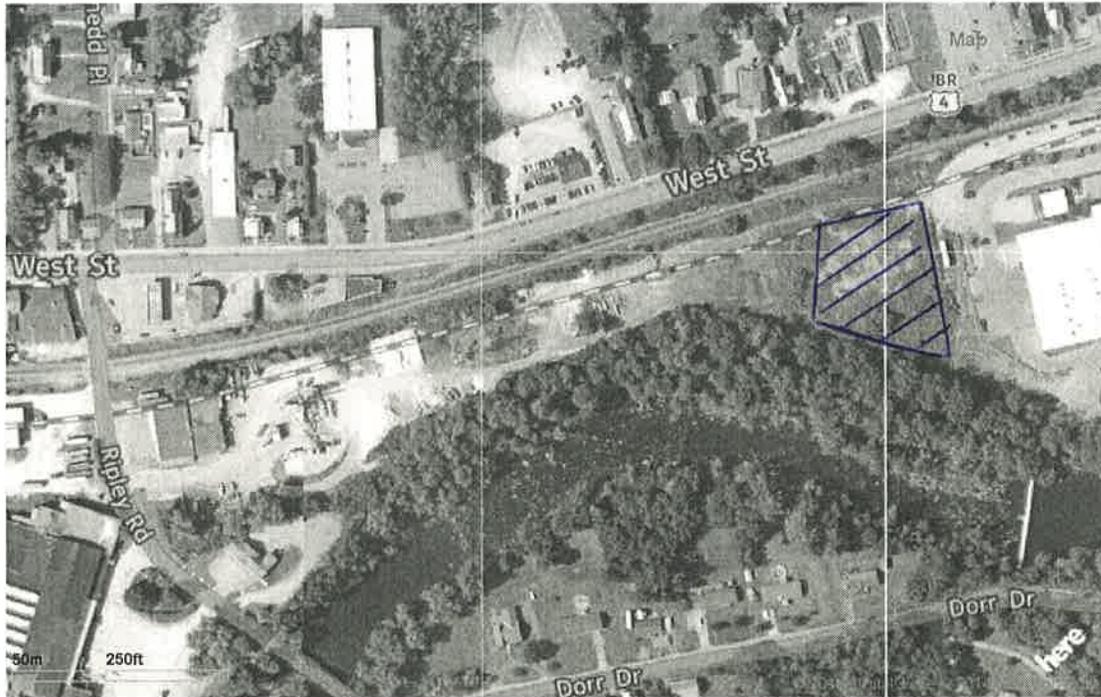
Ad

YAHOO!
MAPS

Rutland, VT

Enter notes here

255



When using any driving directions or map, it is a good idea to double check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning

— SITE LIMITS

Print

Rutland Vt Rutland.TripAdvisor.com Research Rutland Hotels, Rutland Deals, and Rutland Attractions!

Ad

YAHOO!
MAPS

Rutland, VT

Enter notes here

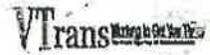
255



When using any driving directions or map, it is a good idea to double check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning

- * AREA EXTENDS TO RIVER
- * 2 AC +/-
- * DISPOSAL OF MATERIAL OVER BANK

OFF-SITE ACTIVITY SUBMITTAL



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- Submit to Karen Spooner: karen.spooner@state.vt.us, Phone: (802)828-2169, Fax: (802)828-2334, VTrans Program Development Division, Environmental Section, One National Life Drive, Montpelier, VT 05633-5001
- Submit a copy to the Resident Engineer
- Allow 21 calendar days (see Section 105.25 (c) of the VTrans Standard Specifications For Construction) for review once the application is administratively complete.
- SUBMITTAL INFORMATION Rutland City BRF 3000 (16)

Project Name/District: <u>RUTLAND BRS</u>		Contractor/District Tech: <u>Kubricky Construction Corp.</u>	
Contact: <u>Harper Callahan</u>		Phone: <u>(518)792-5864</u>	Fax: <u>(518)796-2458</u> E-mail: <u>HCallahan@dacollins.com</u>
Resident Engineer: <u>Tim Pockette</u>		Phone: _____	Fax: <u>Tim.Pockette@state.vt.us</u>

- PROPOSAL INFORMATION (Select one type of area being proposed for use per submittal and describe associated characteristics)

<input type="checkbox"/> Waste	<input type="checkbox"/> Borrow	<input checked="" type="checkbox"/> Staging	<input type="checkbox"/> Other (ex. dewatering location): _____
Material: Type (asphalt, concrete, earthen, etc.) <u>PIPE, GRAVELS, Topsoil</u> Quantity (yds ³) <u>1500 cy +/-</u>			
Total Area of Land Disturbance (sq ft) <u>1 AC +/-</u>			
Additional Info: _____			

- LANDOWNER/PROPERTY INFO (Fill all applicable boxes; attach a Location Map and Sketch of Area)

Name: <u>GRANGER ENTERPRISES</u>	Address: <u>140 GRANGER ST</u>	Phone: <u>802-773-6251</u>
Print Name	Rutland, VT	
<input checked="" type="checkbox"/> Private Residential/Commercial	<input type="checkbox"/> Town/State Owned Facility	<input type="checkbox"/> Other
Additional Info: _____		
Are there other users of this site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Known past uses: <u>SNOW DUMP</u>		
<input type="checkbox"/> Location Map (must be USGS Geological Survey Map (7.5'))		
<input checked="" type="checkbox"/> Sketch of Area:	<input type="checkbox"/> North arrow	<input checked="" type="checkbox"/> Approx scale <input checked="" type="checkbox"/> Recognizable features
Permit Info:		
Act 250 Permit Exists? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, # _____ Copy Enclosed? <input type="checkbox"/> Yes <input type="checkbox"/> No		
List of Other Existing Permits: _____		

Landowner Agreement (Signature is required for all private-, town-, and state-owned properties)

I, Harper Callahan, warrant that the information in the above permit application is accurate and agree
Landowner/Facility Manager Signature

to the use of the proposed area by Champlain Coast as shown on the attached sketch. If acting as the agent of
Name of Contractor

the Landowner, I warrant (1) that the Landowner has the full right, power, and authority to authorize the proposed use, (2) that I am authorized to act as the Landowner's agent, and (3) that my authority to act as the Landowner's agent has not been revoked.

Date: 11/12/14

This clearance is for the Natural and Cultural Resources Only.



Google earth

feet 700
meters 200



Silt Fence Around Perimeter

One Access point between project area and off site area. 25' wide

P.O. Box 3202
Glens Falls, New York 12801-7202
518.792.5864 Phone
518.792.2458 Fax



KUBRICKY CONSTRUCTION

November 10, 2014

VAOT Resident Engineer
Southwest Regional Const.
1635 US Route 4
Mendon, VT 05701
Attention: Tim Pockette, P.E.

RE: BRF3000 Rutland City
Construction Project Chart Revisions

Dear Tim,

Please review the following clarifications to your letter (10/29/14 - Mark Mackintosh, P.E.) concerning our CPM schedule (these responses are number to correspond with the comments in the 10/29/14 letter):

1. The ID #'s are not sequence numbers and are forced out of order based on the schedule logic.
2. Holidays have been accounted for in the project calendar as non work days. The holidays described in SP #19A are 1.5 days each. Is it the intent of VTrans to show numerous three day weekends on the schedule? If so can you define these periods as described in SP #19A?
3. Fixed the formatting of Contract Item Number and Quantity to separate the numbers.
4. The Dorr Road detour dates are shown under the *River Street Start-up* heading (ID # 167 & 168). The Ripley Road detour dates are shown under the heading *Ripley Road Start-up* (ID # 264 & 261).
5. Milestone dates are shown under the heading Administrative (ID # 8 & 12).
6. Fixed stone wall duration.
7. Added missing submittals to the CPM under the *Submittals* heading.
8. Water Repellant will be applied in accordance with the specifications and manufacturers recommendations (this will include applying within a heated enclosure were necessary). Water Repellant added to Abutment 1 and the River Street Superstructure.

9. ID #206 includes 4 piles at abutment 2. Based on the borings and our past experience we have bid this work to install each of the 65' long piles in two and a half hours. Our schedule reflects this production rate.
10. ID #169 is a tremie seal at the bottom of the cofferdam (changed description to *Tremie Seal Cofferdam*). This cannot be poured until the cofferdam is excavated and the piles are driven. This will be similar to the pier cofferdam at Ripley Road.
11. Added cure times following all pours. Added testing of sewer and waterline.
12. Fixed seeding to meet seasonal limitations.
13. Paving, line striping, signs, etc. are all shown under the *River St/Ripley Roadwork* heading. The joint seal task is the last item of superstructure work not final project item.
14. There is no cofferdam in the contract for work at this location. The work for the drilled shaft will be performed within two temporary steel casings. The oversized outer casing will be used to contain any material that falls outside of the shaft casing. Installation time for both casings is included under the *River Street Pier* heading.
15. Special Provision #4 states that drilled shaft work will be allowed during the seasonal closure period. It does not put any limits on the work that we can request in accordance with 108.09 (d). In the interest of progressing the job, and following all VTrans specifications concerning cold weather concrete, if conditions are favorable we will request to complete this work immediately following the drilled shaft work.
16. Moved stone work at River St Pier to be completed within permit dates.
17. Pushed start date of Dorr Drive detour to 1/5/16.
18. All forming and pouring of concrete will be performed in conformance with VTrans curing and loading specifications.
19. Placed Abutment 1 Stone fill within permit restrictions.
20. Added Notification for start of water and sewer work at River St.
21. Fixed joint sealer sequence.
22. Fixed sidewalk/detectable warning paver sequence.
23. Fixed waterproof membrane/paving top course on bridge sequence.
24. Show top course pavement at River Street in the fall of 2015.
25. Moved items for demo pier, demo abutments, and place stone fill/remove causeway within permit requirements.
26. Ripley causeway submittal shown under heading *Submittals*.
27. Work at the Ripley abutments is shown starting outside the season work limits (1 Dec - 15 Apr). The bottom of the footings is two feet higher than OHW and over 15' offset from the edge of Otter Creek at OHW. This work is not in-stream and therefore should not be limited to the July 1 to October 1 permit restriction.
28. Added Notification for start of water and sewer work at Ripley Road.
29. Cofferdam submittal listed under heading *Submittals*.
30. All forming and pouring of concrete will be performed in conformance with VTrans curing and loading specifications.
31. All forming and pouring of concrete will be performed in conformance with VTrans curing and loading specifications.
32. All forming and pouring of concrete will be performed in conformance with VTrans curing and loading specifications.

Please find the attached revised schedule based on the changes noted above.

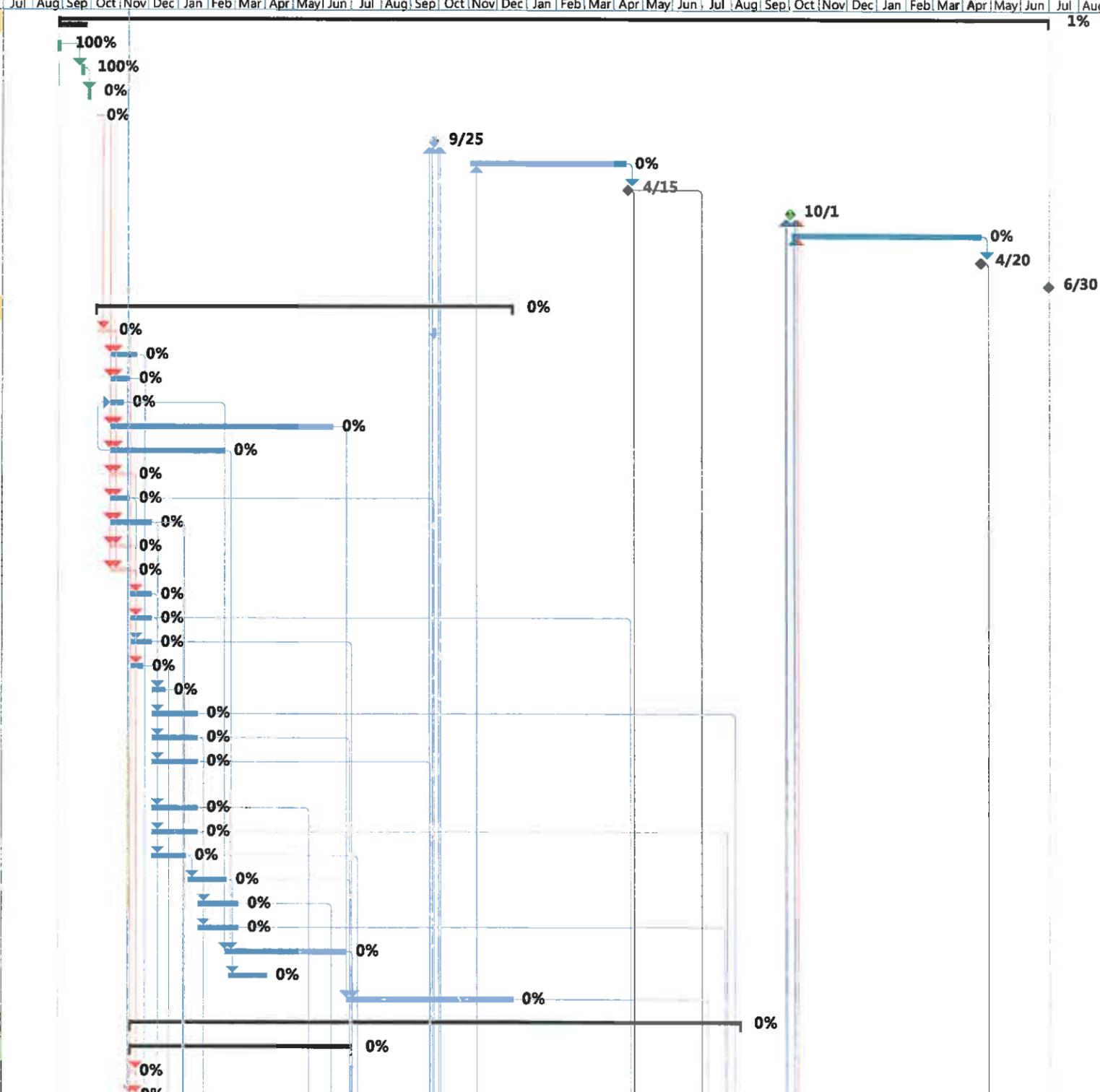
Thank you for reviewing these comments and the revised CPM Schedule and please call with any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read 'Volker Burkowski', written in a cursive style.

Volker Burkowski
Project Manager
KCC

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Contract Item	Quantity	2015												2016												2017																	
									Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		Administrative	716 days	8/29/14	6/30/17				1%																																									
2	✓	Bid Letting	1 day	8/29/14	8/29/14				100%																																									
3	✓	Project Award	1 day	9/22/14	9/22/14	2			100%																																									
4		Preconstruction Meeting	1 day	9/29/14	9/29/14	3			0%																																									
5		Notice to Proceed	1 day	10/7/14	10/7/14				0%																																									
8		Interim Completion BRF3000 (16)	0 days	9/25/15	9/25/15	224,222,144,8			0%																																									
6		2015-2016 Winter Shut Down	111 days	11/2/15	4/13/16	245			0%																																									
7		2016 Startup	0 days	4/15/16	4/15/16	6			0%																																									
12		Interim Completion BRF3000 (19)	0 days	10/1/16	10/1/16	388,389,390,4			0%																																									
9		2016-2017 Winter Shut Down	139 days	10/3/16	4/20/17	436,449			0%																																									
11		2017 Startup	0 days	4/20/17	4/20/17	9			0%																																									
10		Project Completion	0 days	6/30/17	6/30/17				0%																																									
13		Submittals	300 days	10/8/14	12/16/15				0%																																									
33		Set-up Engineer's Office	10 days	10/8/14	10/21/14	5			0%																																									
16		Drilled Shaft Submittal	20 days	10/22/14	11/18/14	5,33			0%																																									
17		Lighting Plan	15 days	10/22/14	11/11/14	5,33			0%																																									
28		Paint Submittal River St Bridge	10 days	10/22/14	11/4/14	34SS			0%																																									
29		Truss Design	160 days	10/22/14	6/11/15	5,33			0%																																									
34		Girder Shops	80 days	10/22/14	2/18/15	5,33			0%																																									
35		CPM Schedule	15 days	10/22/14	11/11/14	5,33			0%																																									
36		Causeway Design River St	15 days	10/22/14	11/11/14	5,33			0%																																									
39		Cofferdam Design River St	30 days	10/22/14	12/4/14	5,33			0%																																									
40		EPSC Plan River Street	15 days	10/22/14	11/11/14	5,33	652.10	1	0%																																									
41		Traffic Control Plan River Street	15 days	10/22/14	11/11/14	5,33			0%																																									
14		EPSC Plan Ripley Road	15 days	11/12/14	12/4/14	40	652.10	1	0%																																									
15		Traffic Control Plan Ripley Road	15 days	11/12/14	12/4/14	41			0%																																									
32		Causeway Design Ripley St	15 days	11/12/14	12/4/14	36			0%																																									
37		Wave Equation Analysis	10 days	11/12/14	11/25/14	40,41			0%																																									
18		Concrete Mix Designs	10 days	12/5/14	12/18/14	15			0%																																									
21		Expansion Joint Submittal	30 days	12/5/14	1/21/15	15			0%																																									
22		Bearing Submittal	30 days	12/5/14	1/21/15	15			0%																																									
23		Guardrail Approach Section Submittal	30 days	12/5/14	1/21/15	15			0%																																									
25		Sewer System Submittal River St	30 days	12/5/14	1/21/15	15			0%																																									
26		Sewer on Bridge Submittal Ripley	30 days	12/5/14	1/21/15	15			0%																																									
31		Cofferdam Design Ripley St	22 days	12/5/14	1/9/15	39			0%																																									
19		Erection Plan - River Street	30 days	1/12/15	2/20/15	31			0%																																									
24		Waterline Submittal River St	30 days	1/22/15	3/4/15	25			0%																																									
27		Water on Bridge Submittal Ripley	30 days	1/22/15	3/4/15	26			0%																																									
38		Fabricate Girders	90 days	2/19/15	6/25/15	34,28			0%																																									
20		Erection Plan - Ripley Road	30 days	2/23/15	4/3/15	19			0%																																									
30		Fabricate Trusses	120 days	6/26/15	12/16/15	29,38			0%																																									
42		BRF 3000 (16) River Street	437.5 days	11/12/14	8/9/16				0%																																									
159		River Street Start-up	157.5 days	11/12/14	6/30/15				0%																																									
161		Install Silt Fence	1 day	11/12/14	11/12/14	40	649.51	200	0%																																									
166		Construction Signs	2 days	11/12/14	11/13/14	33,41,35			0%																																									



Vermont Agency of Transportation
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Task	Start-only	Baseline Split	Summary	External Milestone	Deadline

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Contract Item	Quantity	2015												2016												2017											
									Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
265		Ripley Road Substructures	276.88 days	6/29/15	8/3/16				0%																																			
328		Ripley Pier	58 days	6/29/15	9/21/15				0%																																			
329		Tubidity Curtain	2 days	6/29/15	7/1/15	222	649.61	650	0%																																			
330		Build Ripley Causeway	3 days	7/1/15	7/7/15	329,32	900.645	1	0%																																			
331		Drive Sheeting for Cofferdam	6 days	7/7/15	7/15/15	330,31	208.40	1	0%																																			
332		Excavate Cofferdam Earth	4.5 days	7/15/15	7/21/15	331	208.30	330	0%																																			
333		Excavate Cofferdam Rock	1.5 days	7/22/15	7/23/15	332	208.35	30	0%																																			
334		Install Cofferdam Bracing	3 days	7/23/15	7/28/15	333			0%																																			
335		Mob. Equipment for Pile Driving	1 day	7/28/15	7/29/15	334	504.10	0.17	0%																																			
336		Drive Test Pile	0.5 days	7/29/15	7/29/15	335	505.20	51	0%																																			
337		Dynamic Pile Load Test	1 day	7/30/15	7/30/15	336	505.45	1	0%																																			
338		Drive Piles at Pier	4 days	7/31/15	8/5/15	337	505.20	663	0%																																			
339		Pour Cofferdam Seal	1 day	8/6/15	8/6/15	338	541.31	200	0%																																			
340		Dewater Cofferdam	1 day	8/7/15	8/7/15	339			0%																																			
341		Cut-Off Piles	0.5 days	8/10/15	8/10/15	340			0%																																			
342		Form Pier Footing	2.5 days	8/10/15	8/12/15	341			0%																																			
343		Rebar for Pier Footing	2 days	8/13/15	8/14/15	342	507.11	9810	0%																																			
344		Pour Pier Footing	1 day	8/17/15	8/17/15	343	501.34	62	0%																																			
345		Cure Pier Footing	7 days	8/18/15	8/24/15	344			0%																																			
346		Form Pier Stem	6 days	8/18/15	8/25/15	344			0%																																			
347		Rebar for Pier Stem	2.75 days	8/26/15	8/28/15	346	507.11	5820	0%																																			
348		Rebar for Pier Stem	0.25 days	8/28/15	8/28/15	347	507.12	65	0%																																			
349		Pour Pier Stem	1 day	8/31/15	8/31/15	348	501.34	100	0%																																			
350		Cure Pier Stem	7 days	9/1/15	9/7/15	349			0%																																			
355		Form Pedestals	0.5 days	9/1/15	9/1/15	349			0%																																			
356		Pour Pedestals	0.25 days	9/1/15	9/1/15	355	501.34	0.75	0%																																			
357		Cure Pedestals	7 days	9/1/15	9/8/15	356			0%																																			
351		Backfill Pier Stem	1 day	9/8/15	9/8/15	350	204.30	100	0%																																			
358		Set Bearings	0.5 days	9/8/15	9/9/15	356,357			0%																																			
352		Remove Cofferdam Bracing	2 days	9/9/15	9/10/15	351			0%																																			
353		Pull Cofferdam Sheeting	6 days	9/11/15	9/18/15	352			0%																																			
354		Place Stone Fill	0.5 days	9/21/15	9/21/15	353	613.12	50	0%																																			
266		Ripley Abutment 1	69.38 days	4/19/16	7/27/16				0%																																			
267		Excavate for Abutment 1	1 day	4/19/16	4/19/16	264	204.25	160	0%																																			
268		Mob. Pile Driving Equipment	1 day	4/20/16	4/20/16	267	504.10	0.17	0%																																			
269		Drive Test Pile	0.5 days	4/21/16	4/21/16	268	505.19	41	0%																																			
270		Dynamic Pile Load Test	1 day	4/21/16	4/22/16	269	505.45	1	0%																																			
271		Drive Piles for Abutment 1	5.5 days	4/22/16	4/29/16	270	505.19	902	0%																																			
272		Cut-Off Piles	1 day	5/2/16	5/2/16	271			0%																																			
273		Form Abutment Footing	2 days	5/3/16	5/4/16	272			0%																																			
274		Rebar for Abutment Footing	2 days	5/5/16	5/6/16	273	507.11	4710	0%																																			
275		Pour Abutment Footing	1 day	5/9/16	5/9/16	274	501.34	70	0%																																			
276		Cure Abutment Footing	7 days	5/10/16	5/16/16	275			0%																																			
277		Form 1 Seat/WW	4 days	5/10/16	5/13/16	275			0%																																			
278		Rebar 1 Seat/WW	2 days	5/16/16	5/17/16	277	507.11	2250	0%																																			

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