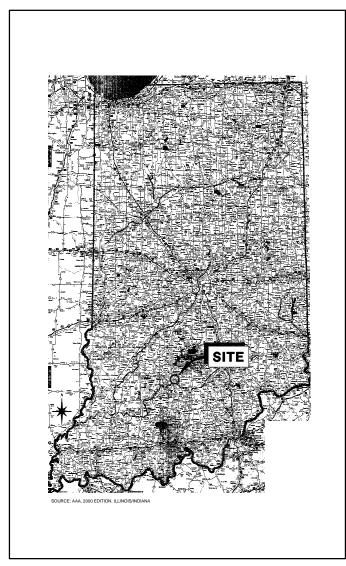
DOWNSTREAM PARCELS REMOVAL ACTION BAILEY'S BRANCH AND PLEASANT RUN

GM POWERTRAIN BEDFORD FACILITY BEDFORD, INDIANA ADDENDUM No. 2

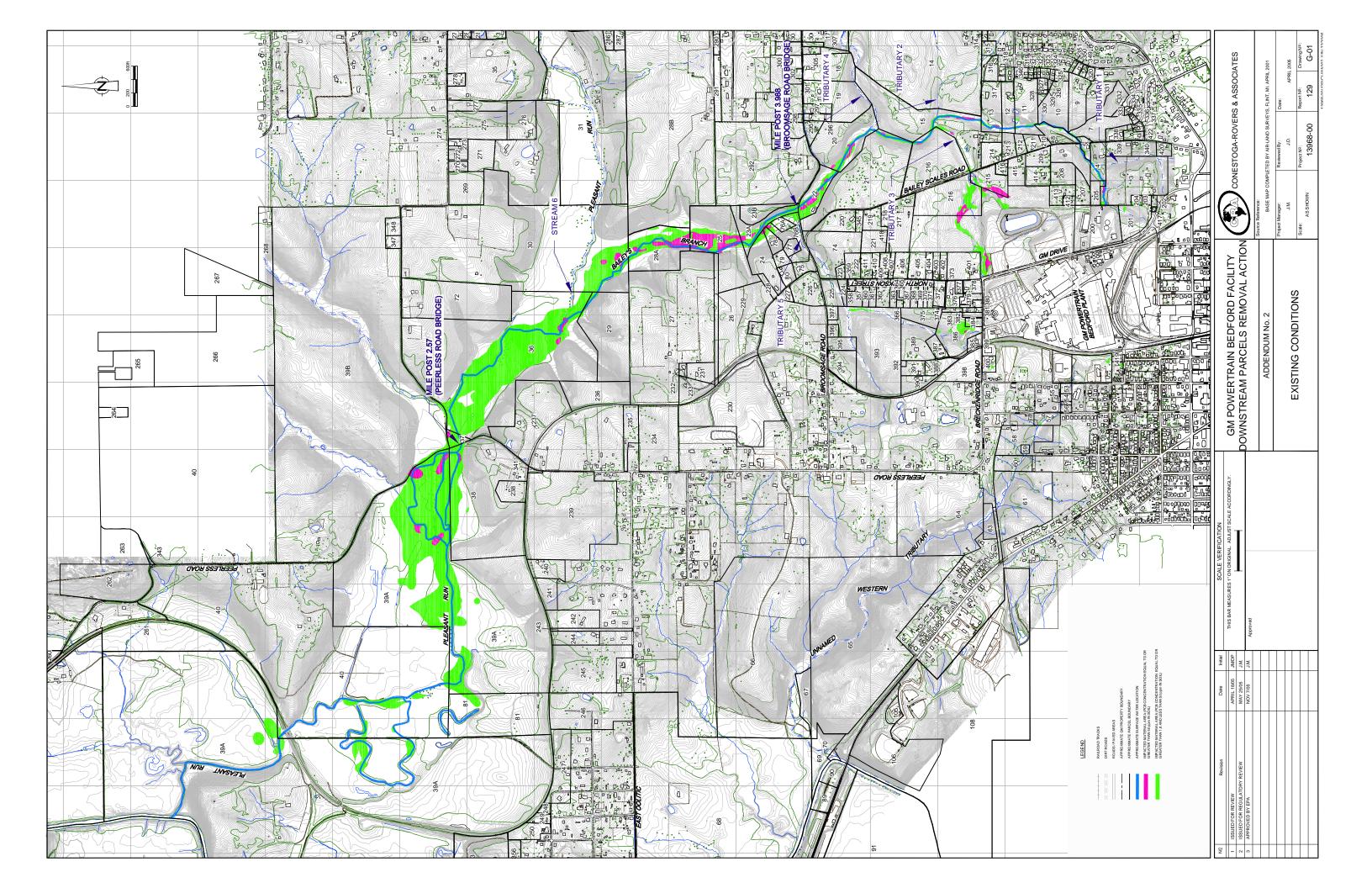


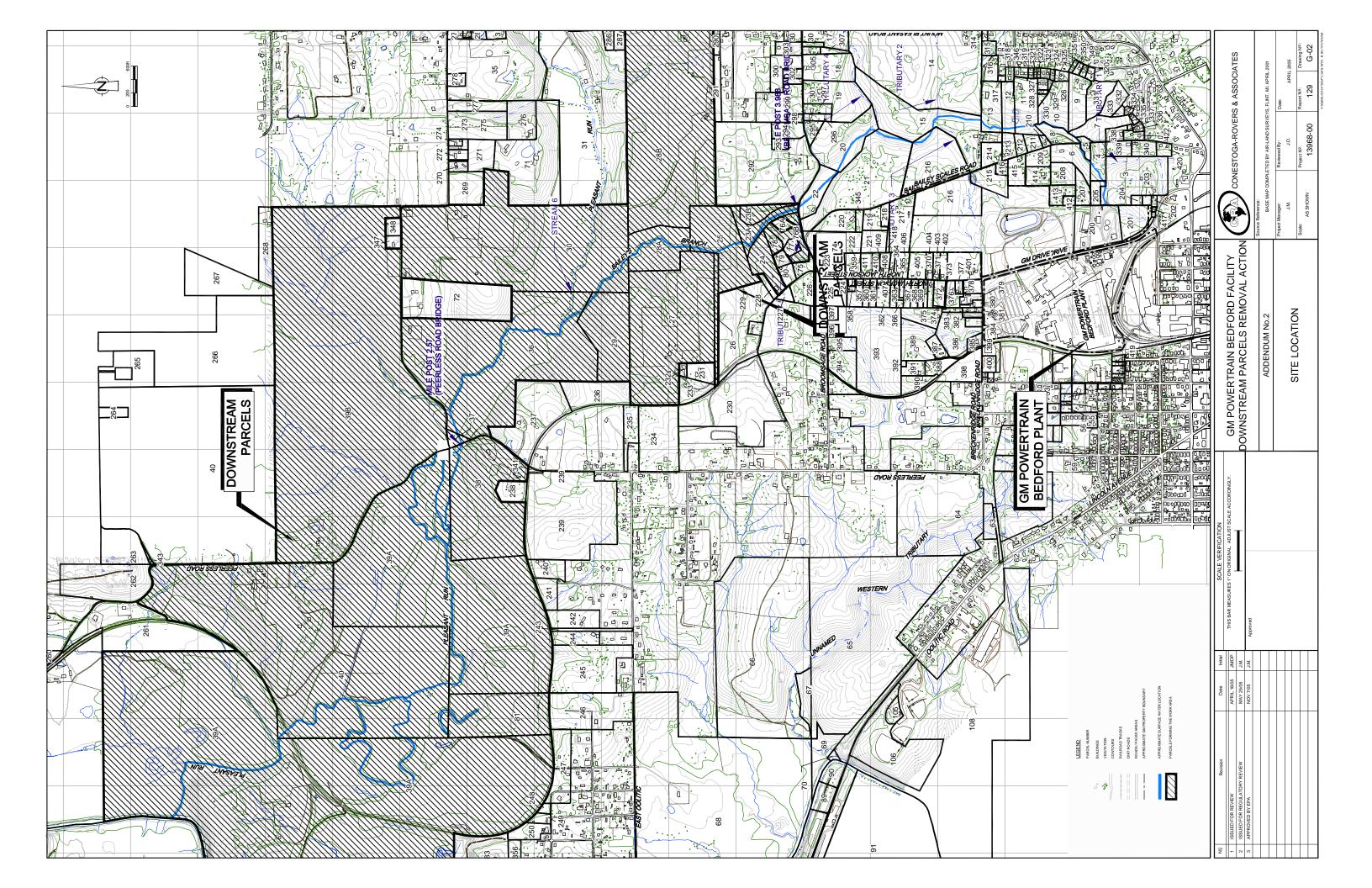
KEY PLAN

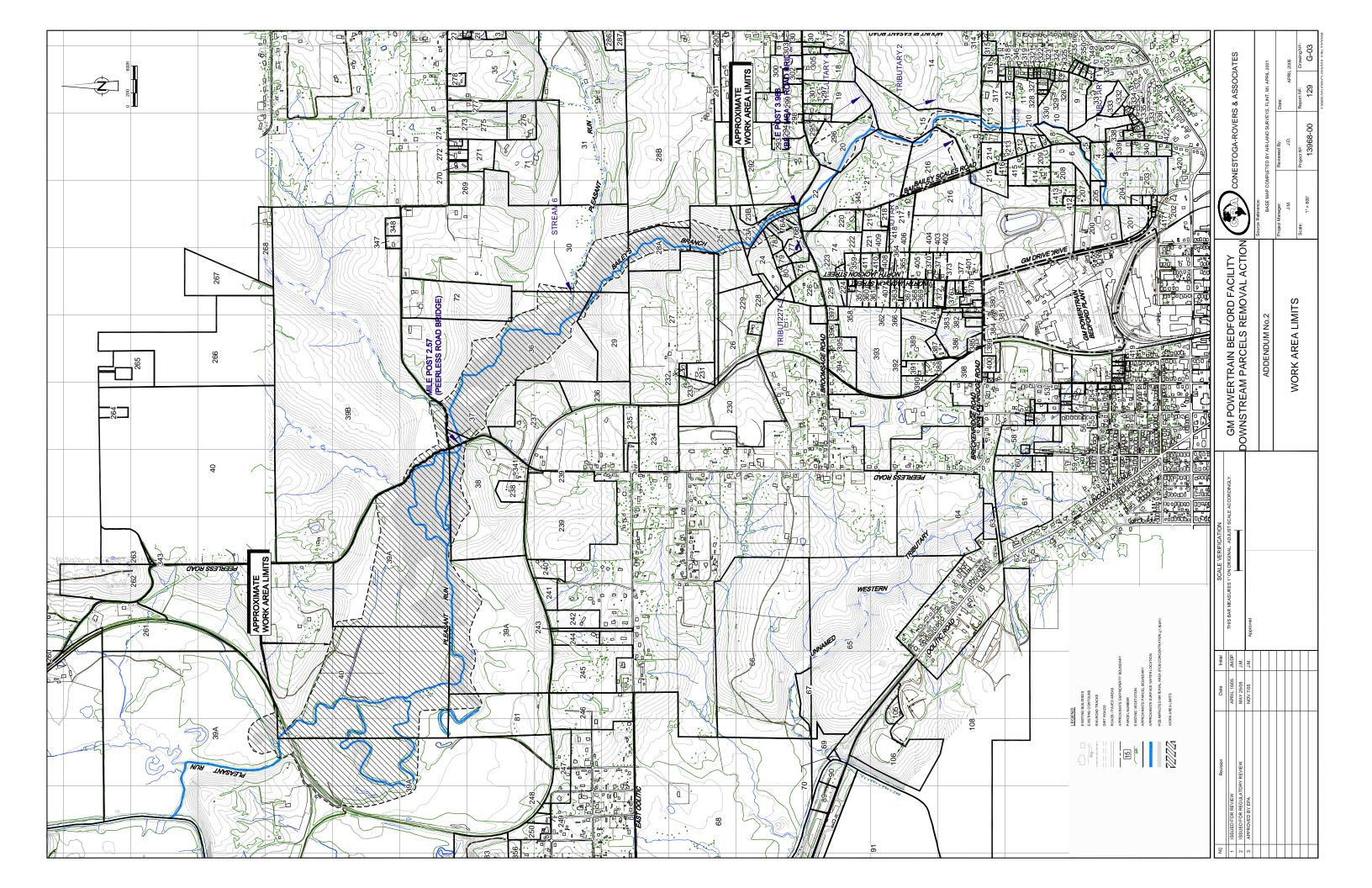
DWG. No.	REV. No.	DATE	TITLE	DWG. No.	REV. No	D. DATE	<u>TITLE</u>
G-01	1	APRIL 2005	EXISTING CONDITIONS	C-06 A	0	APRIL 2005	SITE PREPARATION AND EXCAVATION PLAN PARCELS 38 AND 39
G-02	2	APRIL 2005	SITE LOCATION				
G-03	2	APRIL 2005	WORK AREA LIMITS	C-06 B	0	APRIL 2005	SOIL EROSION AND SEDIMENT CONTROL PARCELS 38 AND 39
G-04	2	APRIL 2005	KEY PLAN, SUPPORT AREAS, AND CREEK DIVERSIONS	C-07 A	0	APRIL 2005	SITE PREPARATION AND EXCAVATION PLAN PARCELS 39, 40 AND 81
G-05	2	APRIL 2005	KEY PLAN AND LOCATION MAP	C-07 B	0	APRIL 2005	SOIL EROSION AND SEDIMENT CONTROL PARCELS 39, 40 AND 81
C-01 A	0	APRIL 2005	SITE PREPARATION AND EXCAVATION PLAN PARCELS 23, 24, 25, 76 AND 78	C-08 A	0	APRIL 2005	SITE PREPARATION AND EXCAVATION PLAN PARCELS 39 AND 40 (C)
C-01 B	0	APRIL 2005	SOIL EROSION AND SEDIMENT CONTROL PARCELS 23, 24, 25, 76 AND 78	C-08 B	0	APRIL 2005	SOIL EROSION AND SEDIMENT CONTROL PARCELS 39 AND 40 (C)
C-02 A	0	APRIL 2005	SITE PREPARATION AND EXCAVATION PLAN PARCEL 25, 28 AND 30	C-09 A	0	APRIL 2005	SITE PREPARATION AND EXCAVATION PLAN PARCELS 39 AND 40 (W)
C-02 B	0	APRIL 2005	SOIL EROSION AND SEDIMENT CONTROL PARCEL 25, 28 AND 30	C-09 B	0	APRIL 2005	SOIL EROSION AND SEDIMENT CONTROL PARCELS 39 AND 40 (W)
C-03 A	0	APRIL 2005	SITE PREPARATION AND EXCAVATION PLAN PARCELS 29, 30 AND 36	C-10 A	0	APRIL 2005	SITE PREPARATION AND EXCAVATION PLAN PARCELS 39 AND 40 (NW)
C-03 B	0	APRIL 2005	SOIL EROSION AND SEDIMENT CONTROL PARCELS 29, 30 AND 36	C-10 B	0	APRIL 2005	SOIL EROSION AND SEDIMENT CONTROL PARCELS 39 AND 40 (NW)
C-04 A	0	APRIL 2005	SITE PREPARATION AND EXCAVATION PLAN PARCELS 29 AND 36	D-01	0	APRIL 2005	DETAILS - SHEET 1 OF 4
C-04 B	0	APRIL 2005	SOIL EROSION AND SEDIMENT CONTROL	D-02	0	APRIL 2005	DETAILS - SHEET 2 OF 4
			PARCELS 29 AND 36	D-03	0	APRIL 2005	DETAILS - SHEET 3 OF 4
C-05 A	0	APRIL 2005	SITE PREPARATION AND EXCAVATION PLAN PARCELS 36, 37, 38 AND 39	D-04	0	APRIL 2005	DETAILS - SHEET 4 OF 4
C-05 B	0	APRIL 2005	SOIL EROSION AND SEDIMENT CONTROL				

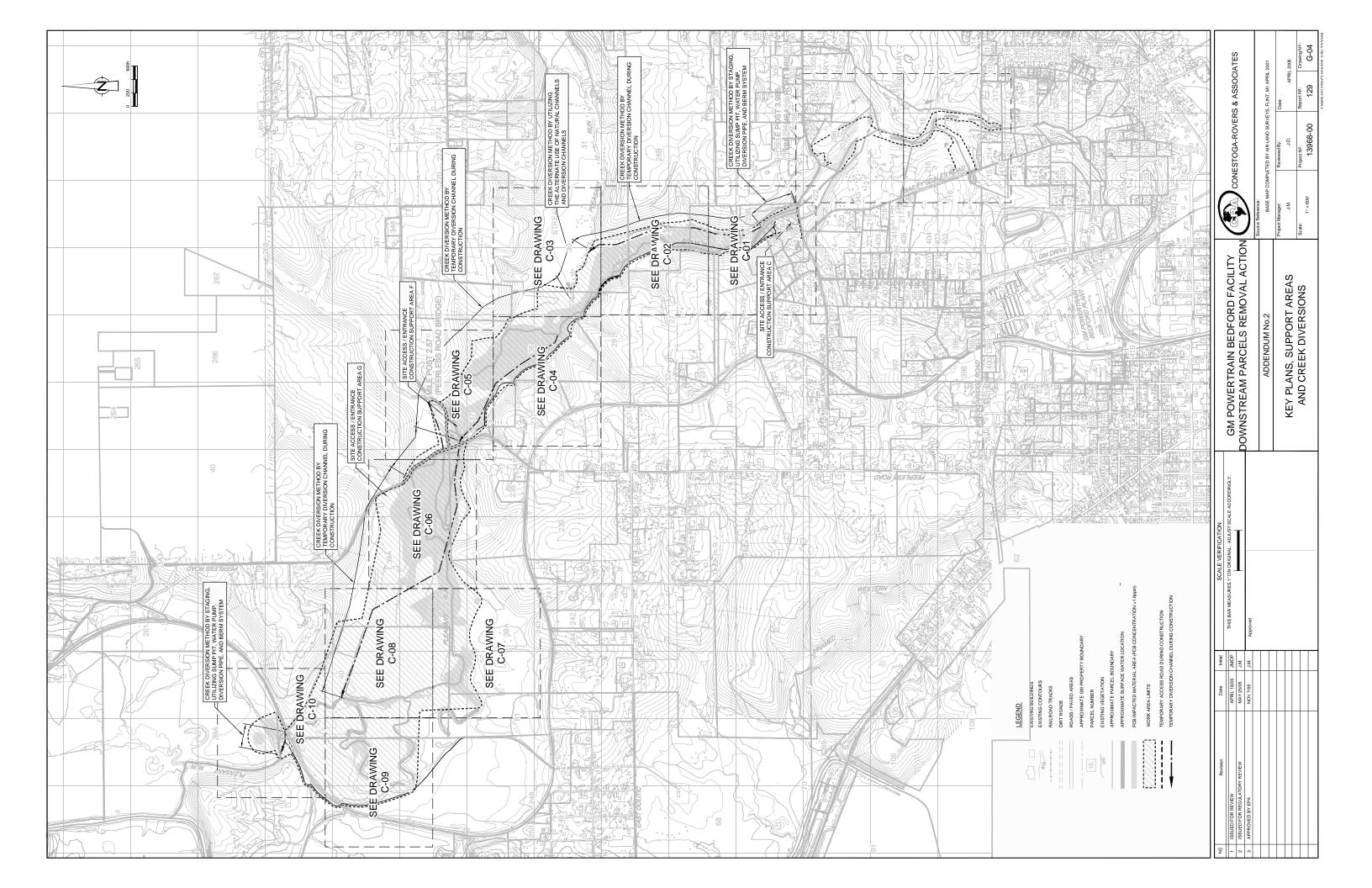
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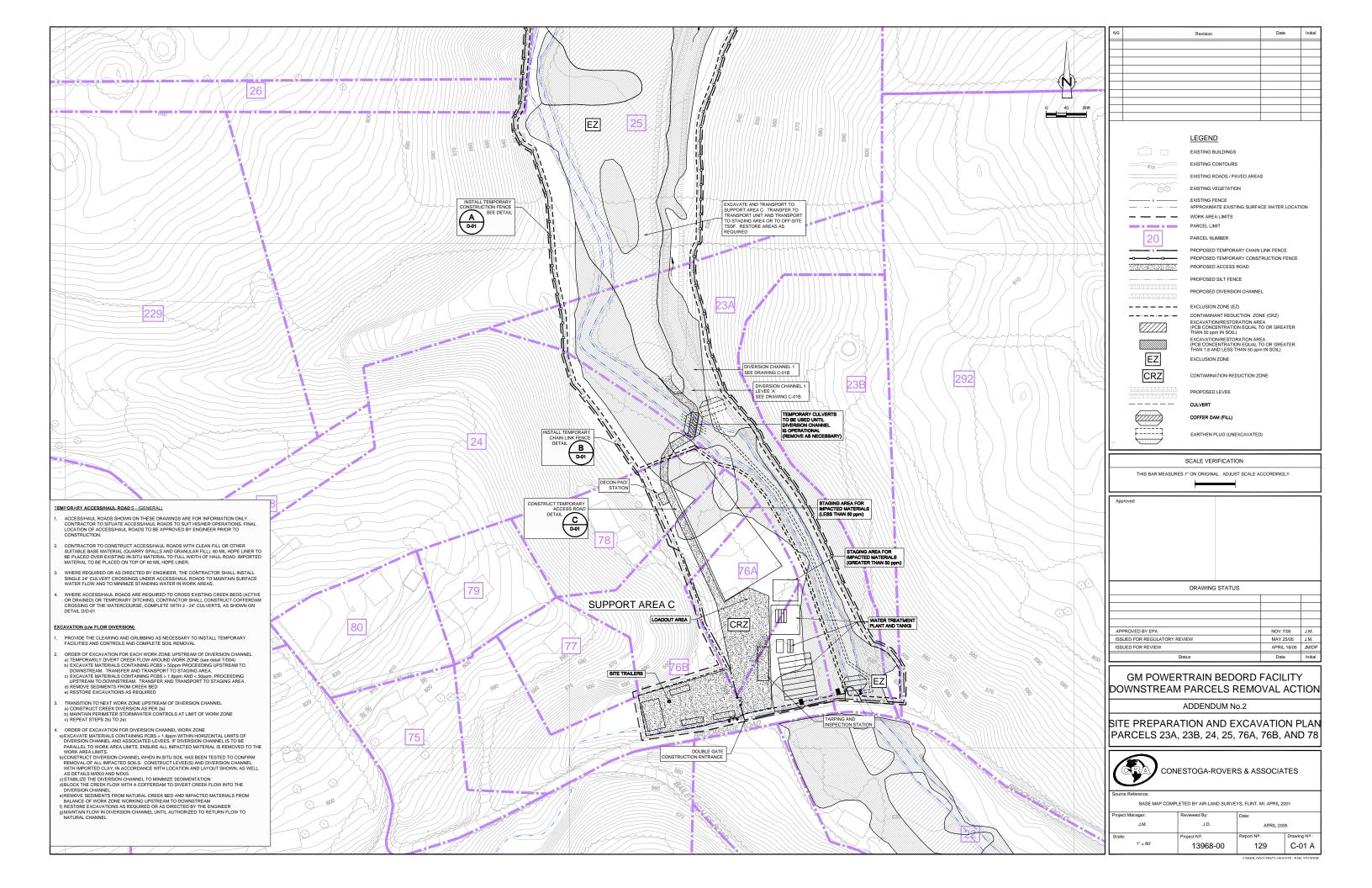


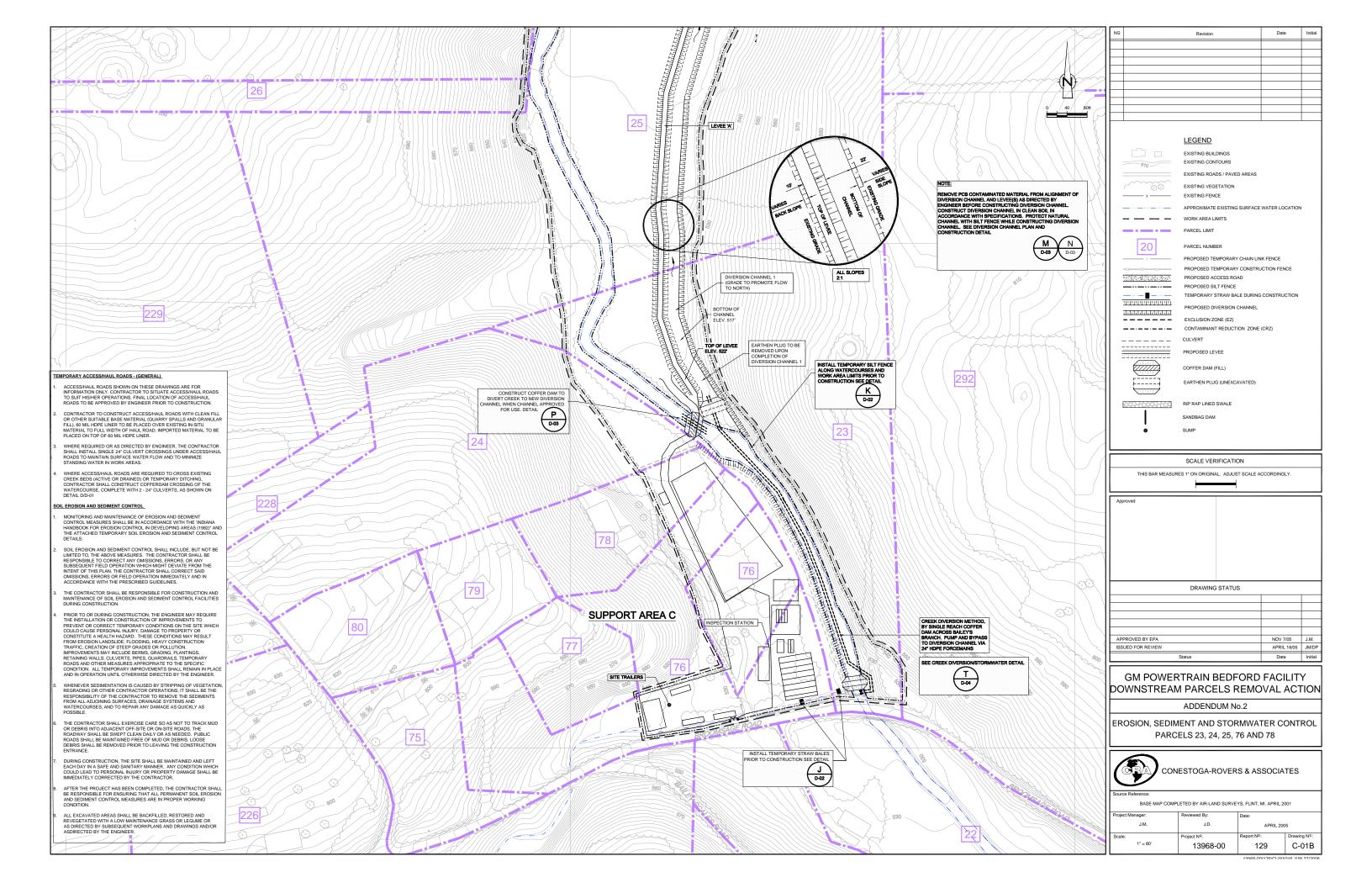


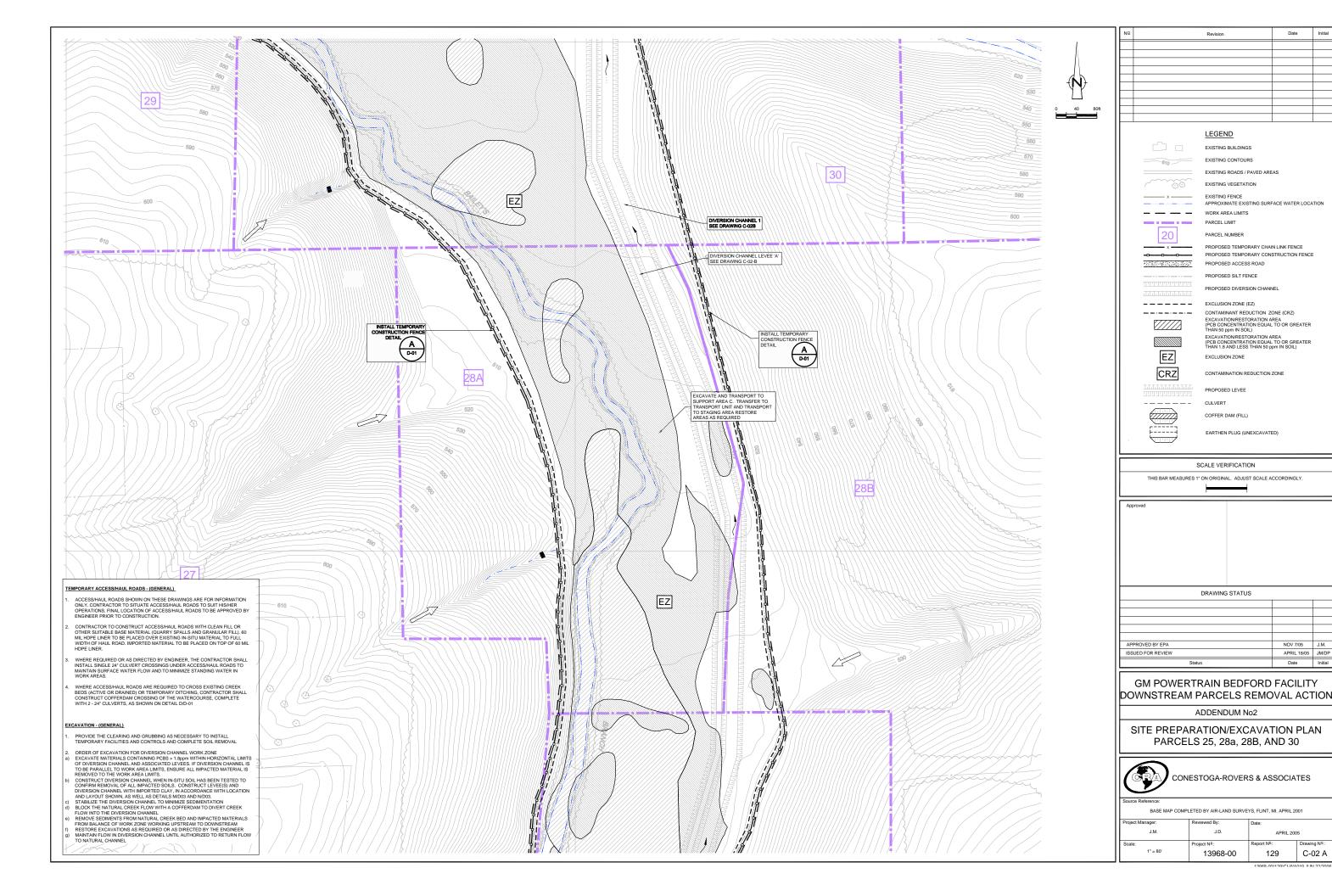












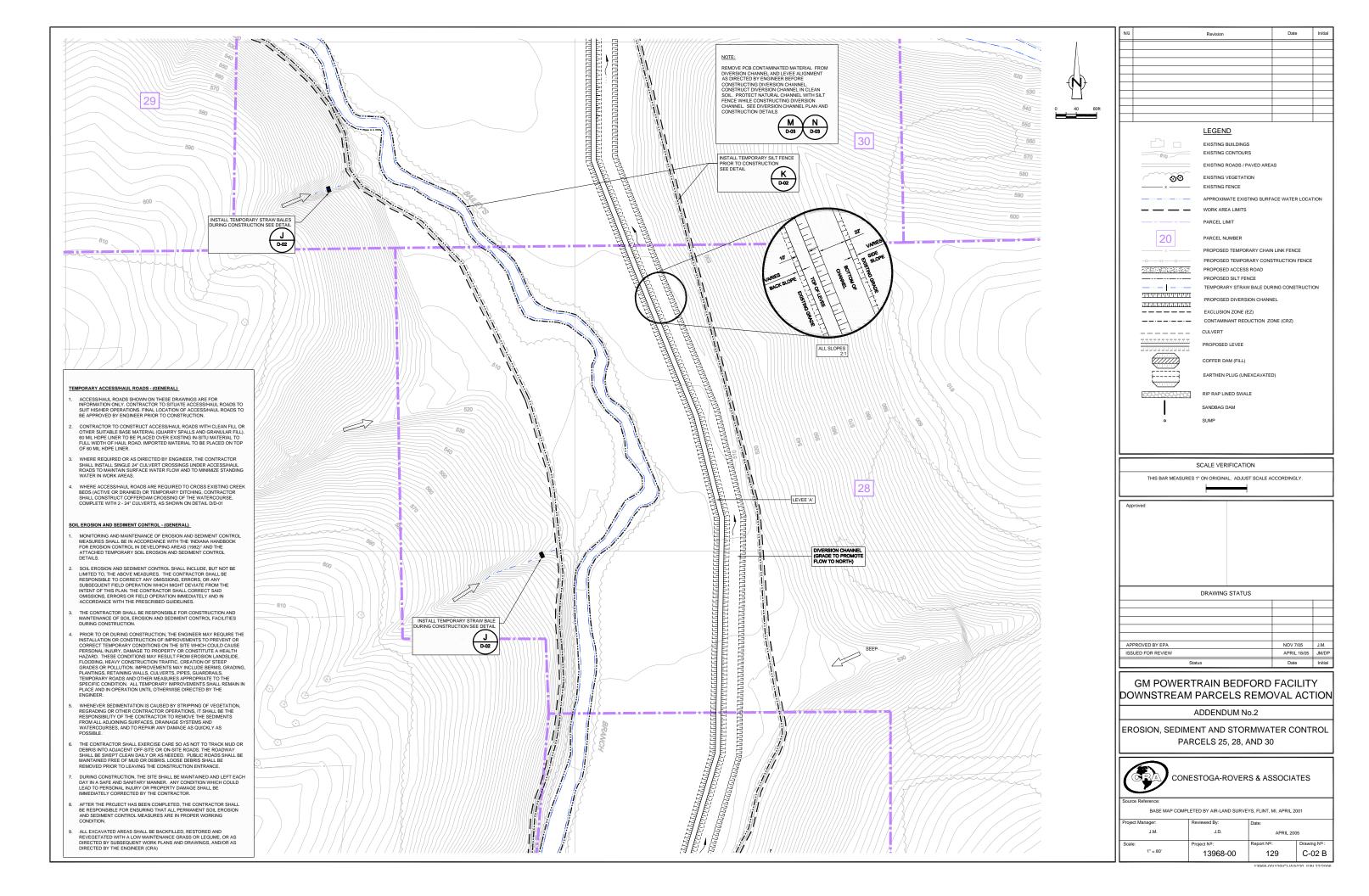
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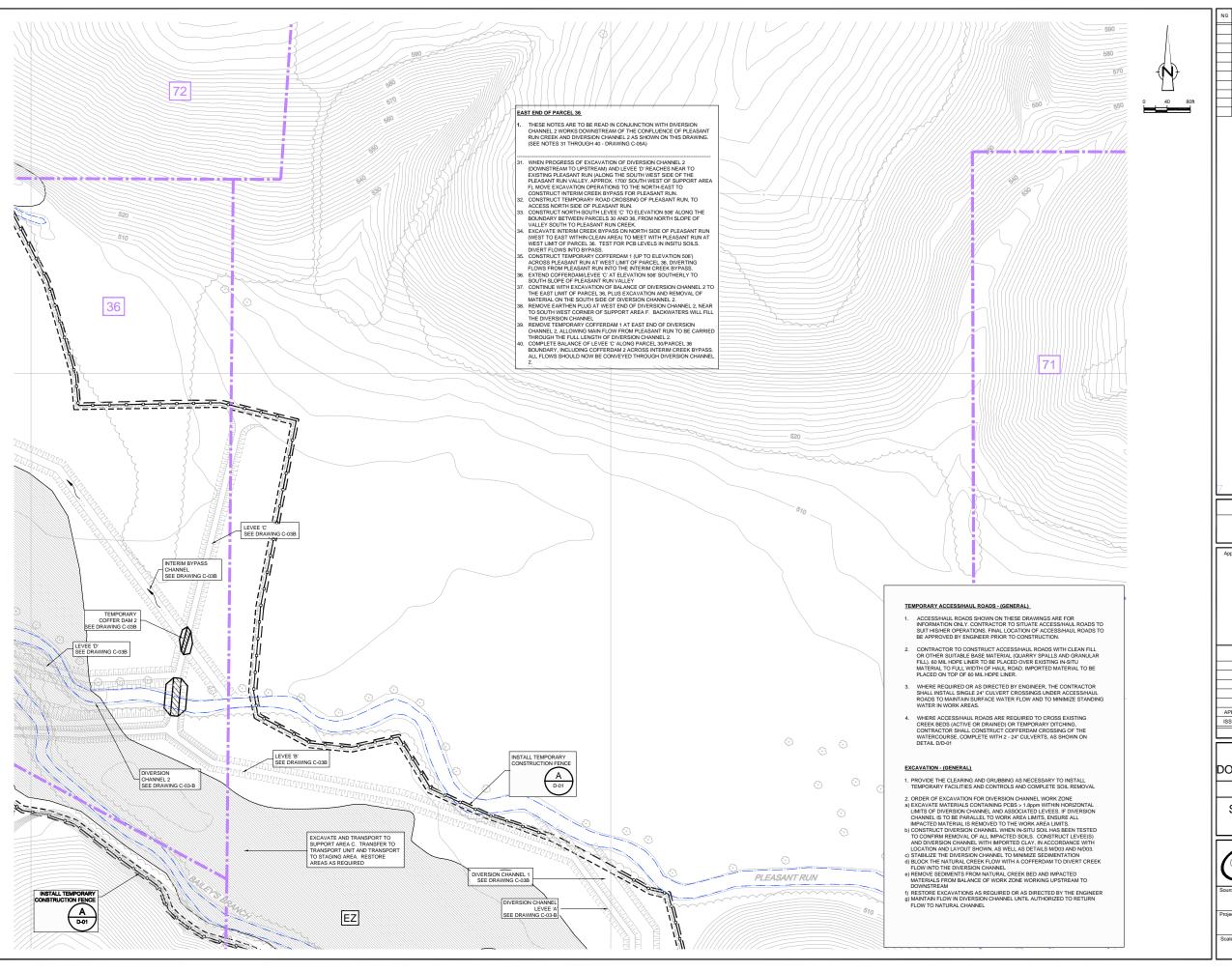
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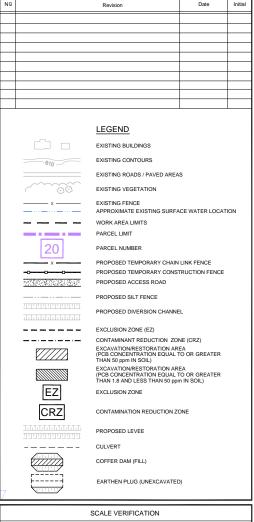
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APRIL 18/05 JM/DP

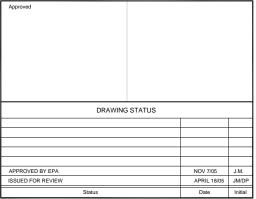
Date Initial







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GM POWERTRAIN BEDFORD FACILITY DOWNSTREAM PARCELS REMOVAL ACTION

ADDENDUM No.2

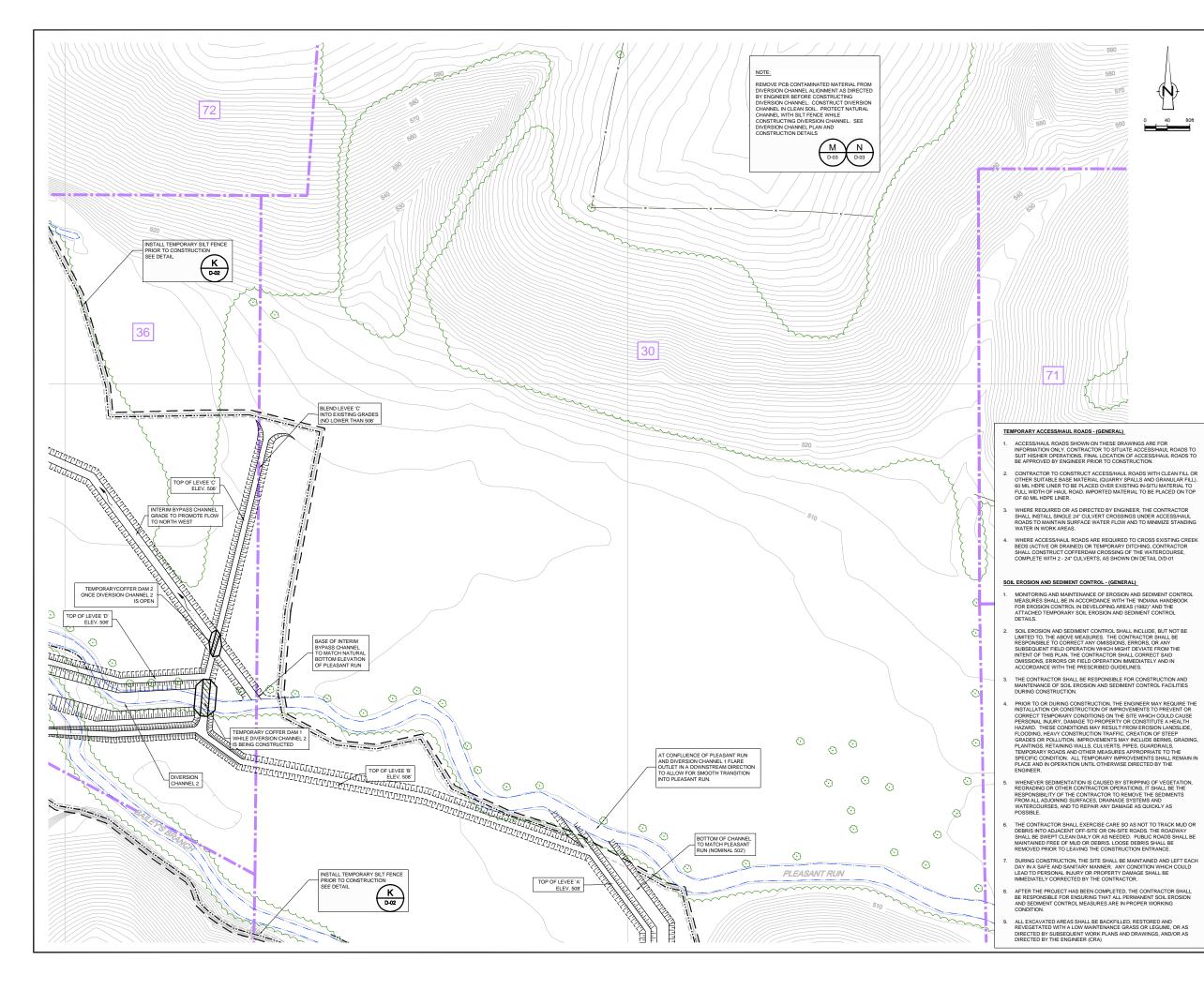
SITE PREPARATION/EXCAVATION PLAN PARCELS 29, 30, AND 36

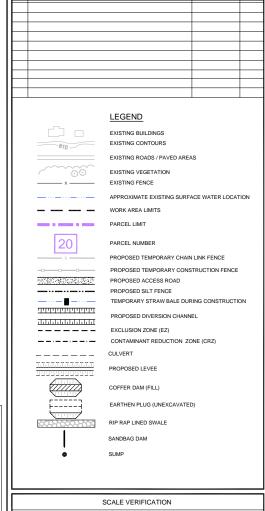


CONESTOGA-ROVERS & ASSOCIATES

BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI. APRIL 2001

J.M. J.D. APRIL 2005 129 13968-00 C-03 A





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THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

GM POWERTRAIN BEDFORD FACILITY DOWNSTREAM PARCELS REMOVAL ACTION

ADDENDUM No.2

EROSION, SEDIMENT AND STORMWATER CONTROL PARCELS 29, 30, AND 36

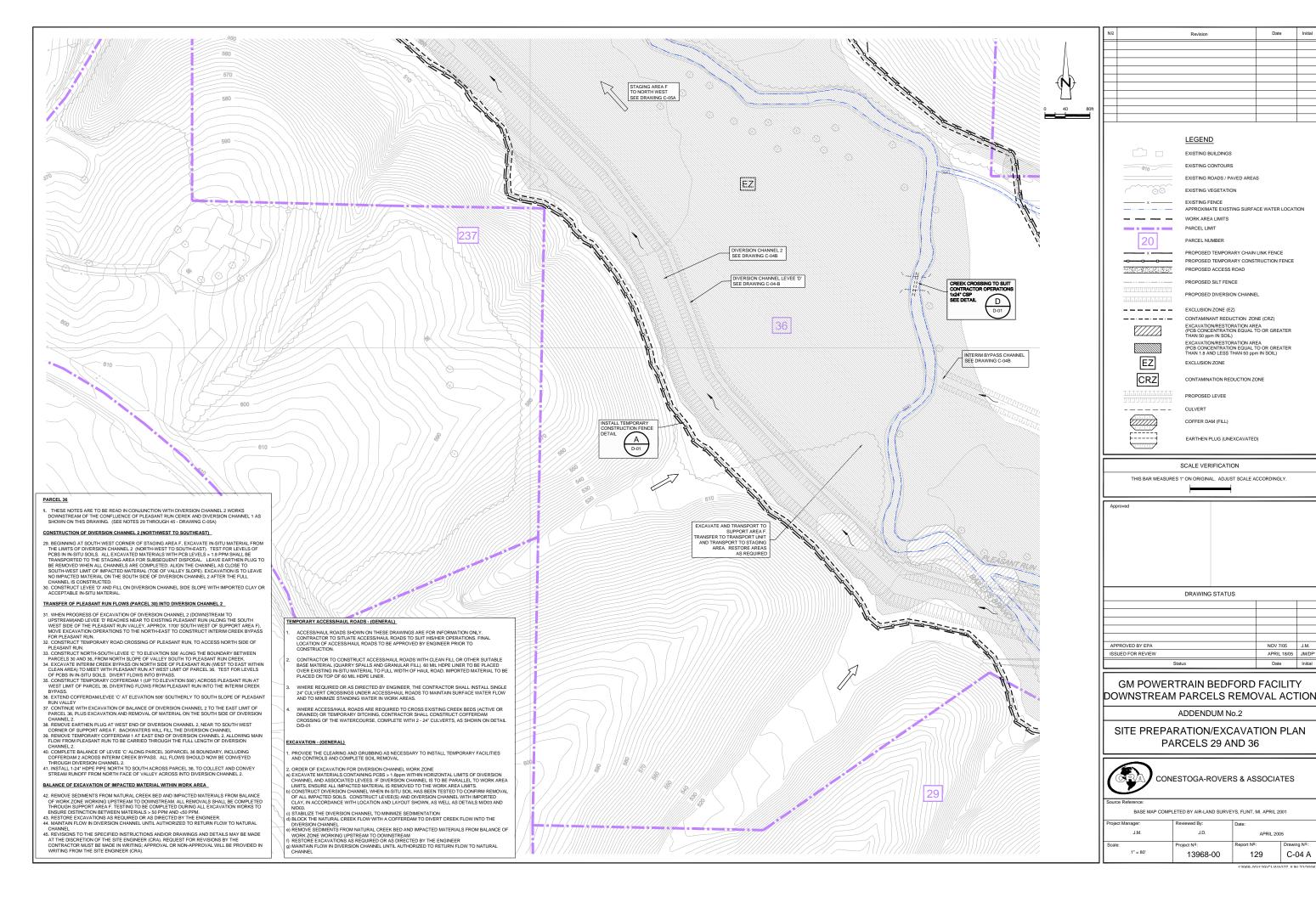


CONESTOGA-ROVERS & ASSOCIATES

Source Reference

BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI. APRIL 2001

ject Manager:	Reviewed By:	Date:	
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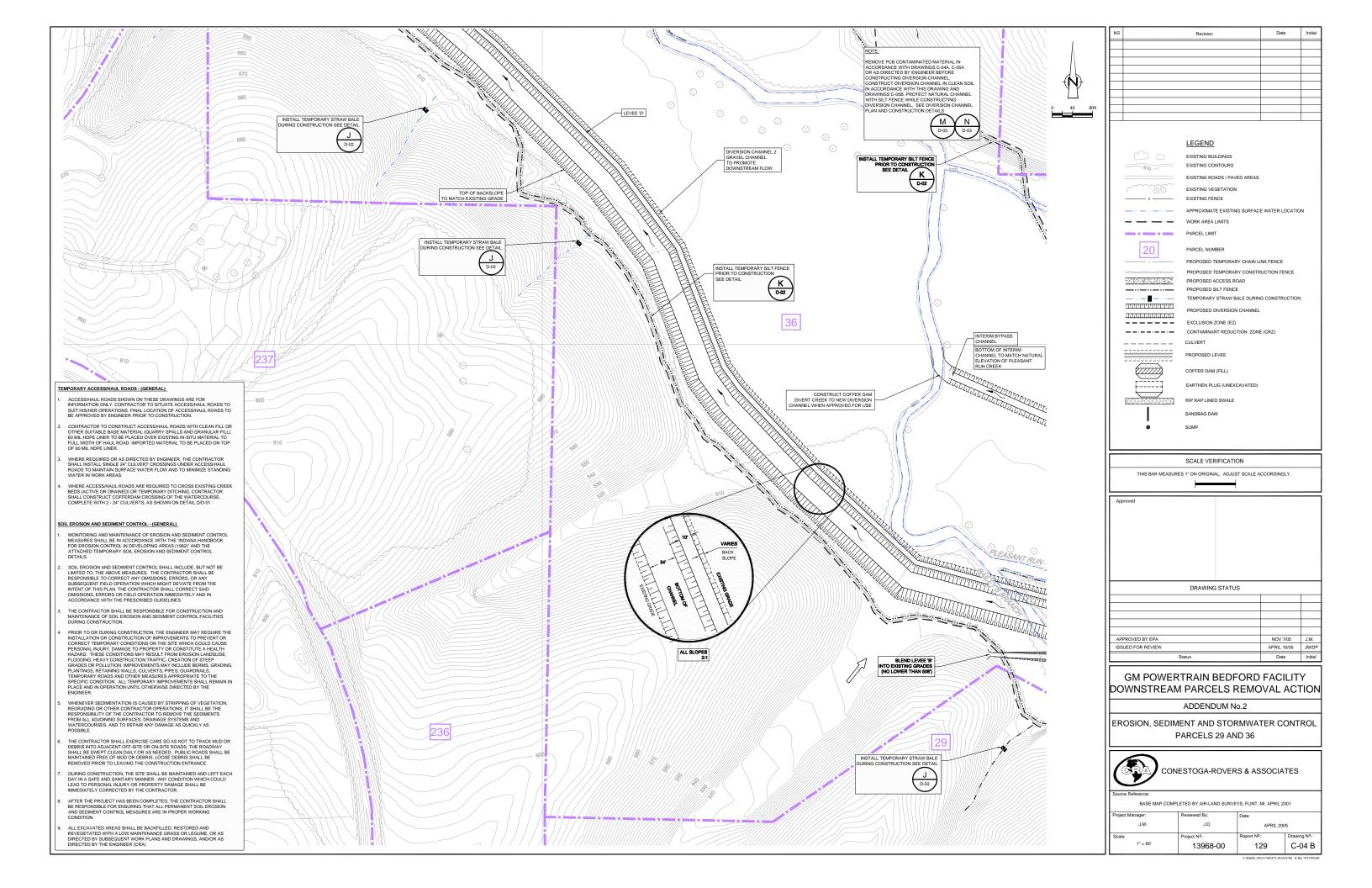


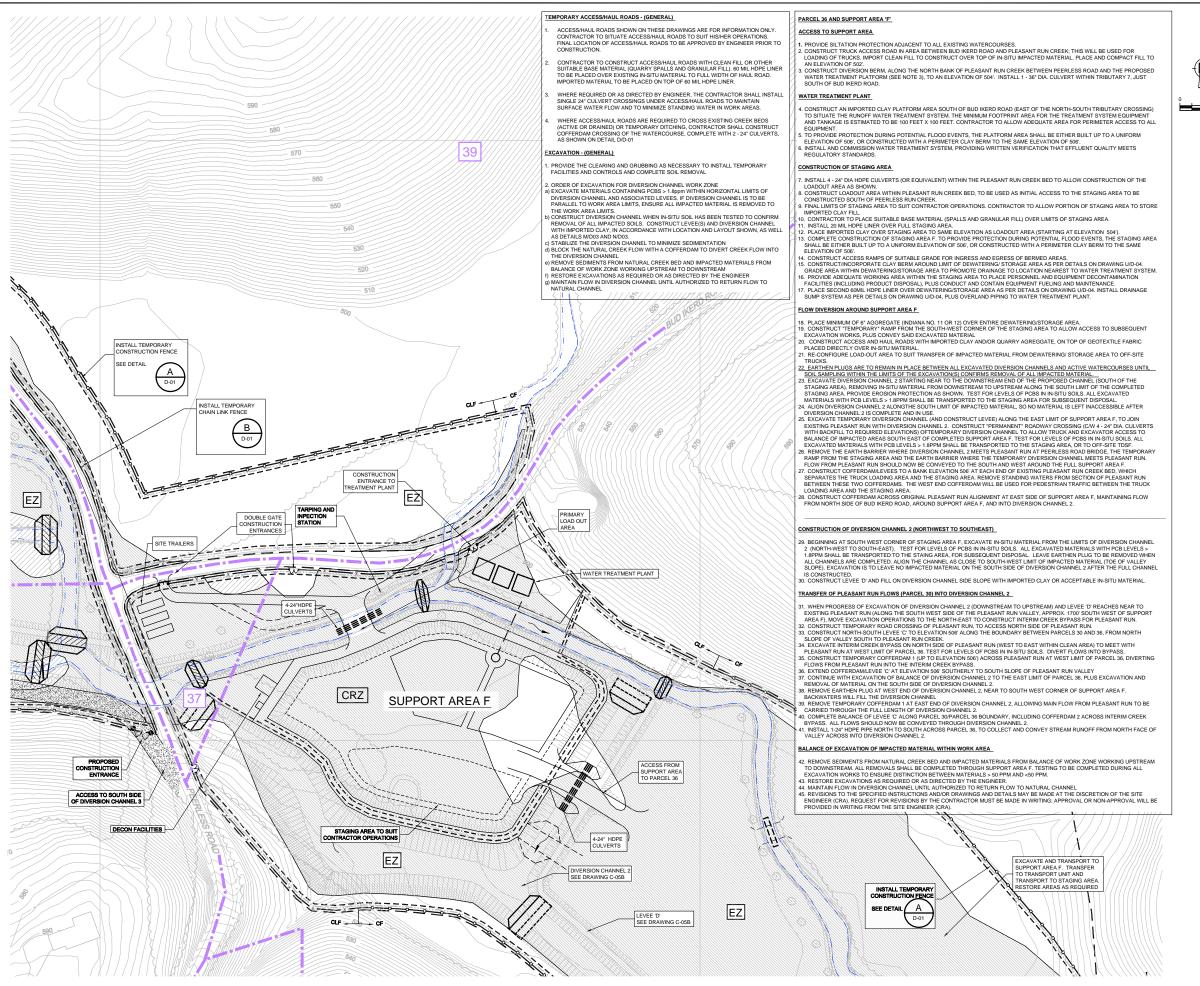
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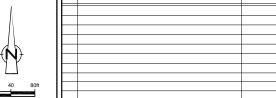
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APRIL 18/05 JM/DF







	LEGEND
	EXISTING BUILDINGS
810	EXISTING CONTOURS
	EXISTING ROADS / PAVED AREAS
~~~~ <u>@@</u>	EXISTING VEGETATION
x	EXISTING FENCE APPROXIMATE EXISTING SURFACE WATER LOCATION
	WORK AREA LIMITS
	PARCEL LIMIT
20	PARCEL NUMBER
x	PROPOSED TEMPORARY CHAIN LINK FENCE
-00	PROPOSED TEMPORARY CONSTRUCTION FENCE
11 4 2 2 4	PROPOSED ACCESS ROAD
	PROPOSED SILT FENCE
	PROPOSED DIVERSION CHANNEL
	EXCLUSION ZONE (EZ)
	CONTAMINANT REDUCTION ZONE (CRZ)
	EXCAVATION/RESTORATION AREA (PCB CONCENTRATION EQUAL TO OR GREATER THAN 50 ppm IN SOIL)
	EXCAVATION/RESTORATION AREA (PCB CONCENTRATION EQUAL TO OR GREATER THAN 1.8 AND LESS THAN 50 ppm IN SOIL)
EZ	EXCLUSION ZONE
CRZ	CONTAMINATION REDUCTION ZONE
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	PROPOSED LEVEE
	CULVERT
	COFFER DAM (FILL)
	EARTHEN PLUG (UNEXCAVATED)

Approved				
	DRAWING	STATUS		
APPROVED BY EPA			NOV 7/05	J.M.
ISSUED FOR REVIEW			APRIL 18/05	J.M. JM/DP
Statu	s		Date	Initial

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

GM POWERTRAIN BEDFORD FACILITY
DOWNSTREAM PARCELS REMOVAL ACTION

ADDENDUM No. 2

SITE PREPARATION/EVACUATION PLAN PARCELS 36, 37, 38, AND 39

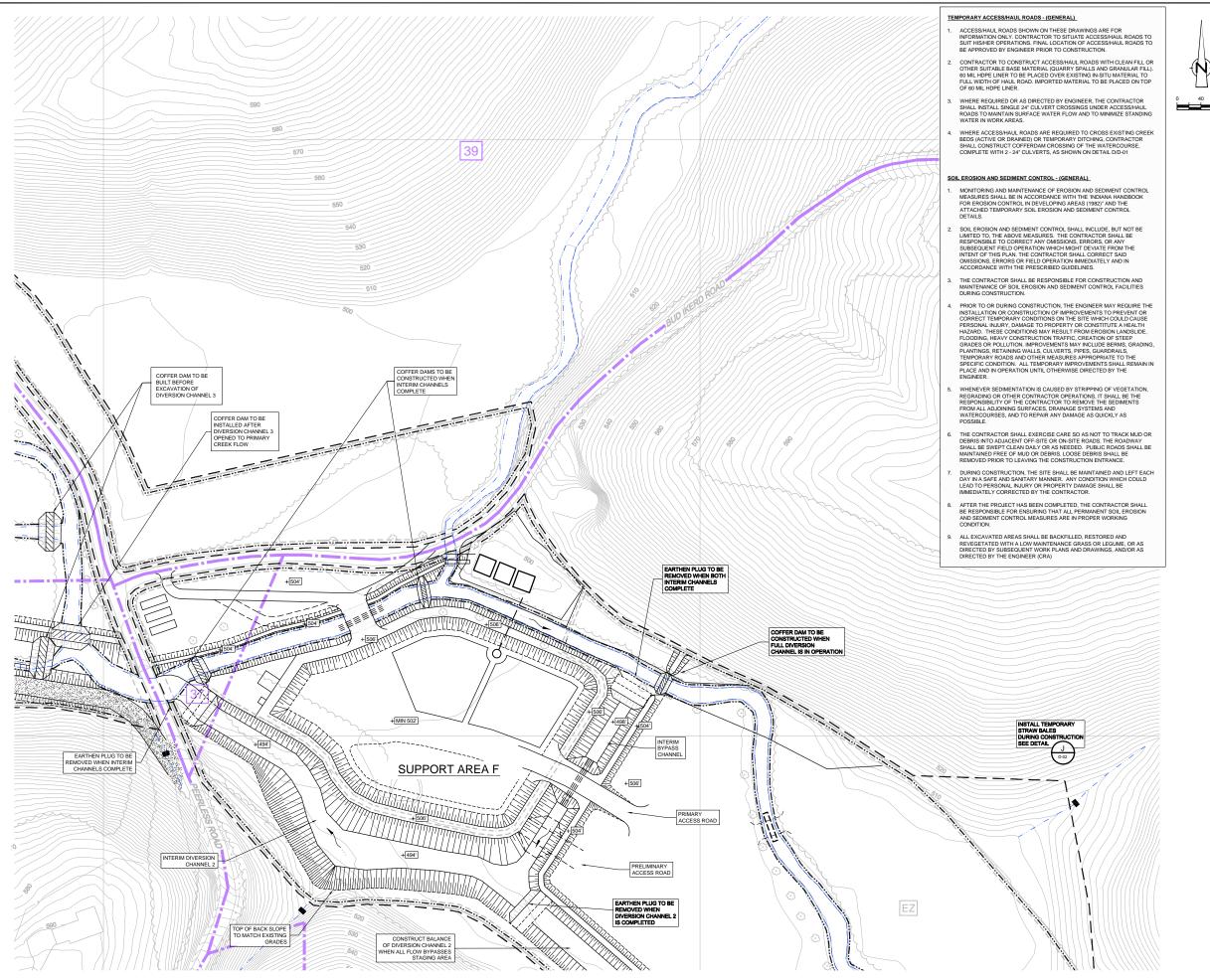


CONESTOGA-ROVERS & ASSOCIATES

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rence:
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI. APRIL 2001

R8-UU/430/UT/WW33 II IN 33/3006





# 610

EXISTING BUILDINGS EXISTING CONTOURS

EXISTING ROADS / PAVED AREAS

EXISTING VEGETATION

EXISTING FENCE

APPROXIMATE EXISTING SURFACE WATER LOCATION

WORK AREA LIMITS

20

PARCEL LIMIT

PROPOSED TEMPORARY CHAIN LINK FENCE

PROPOSED TEMPORARY CONSTRUCTION FENCE 9040 ¥3004 347 PROPOSED ACCESS ROAD

PROPOSED SILT FENCE TEMPORARY STRAW BALE DURING CONSTRUCTION

<del>1111111111111</del> 

EXCLUSION ZONE (EZ) CONTAMINANT REDUCTION ZONE (CRZ)

PROPOSED DIVERSION CHANNEL

PROPOSED LEVEE

EARTHEN PLUG (UNEXCAVATED)

COFFER DAM (FILL)

RIP RAP LINED SWALE

CULVERT

SANDBAG DAM

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

DRAWING STATUS APPROVED BY EPA ISSUED FOR REVIEW APRIL 18/05 JM/DF

### GM POWERTRAIN BEDFORD FACILITY DOWNSTREAM PARCELS REMOVAL ACTION

ADDENDUM No.2

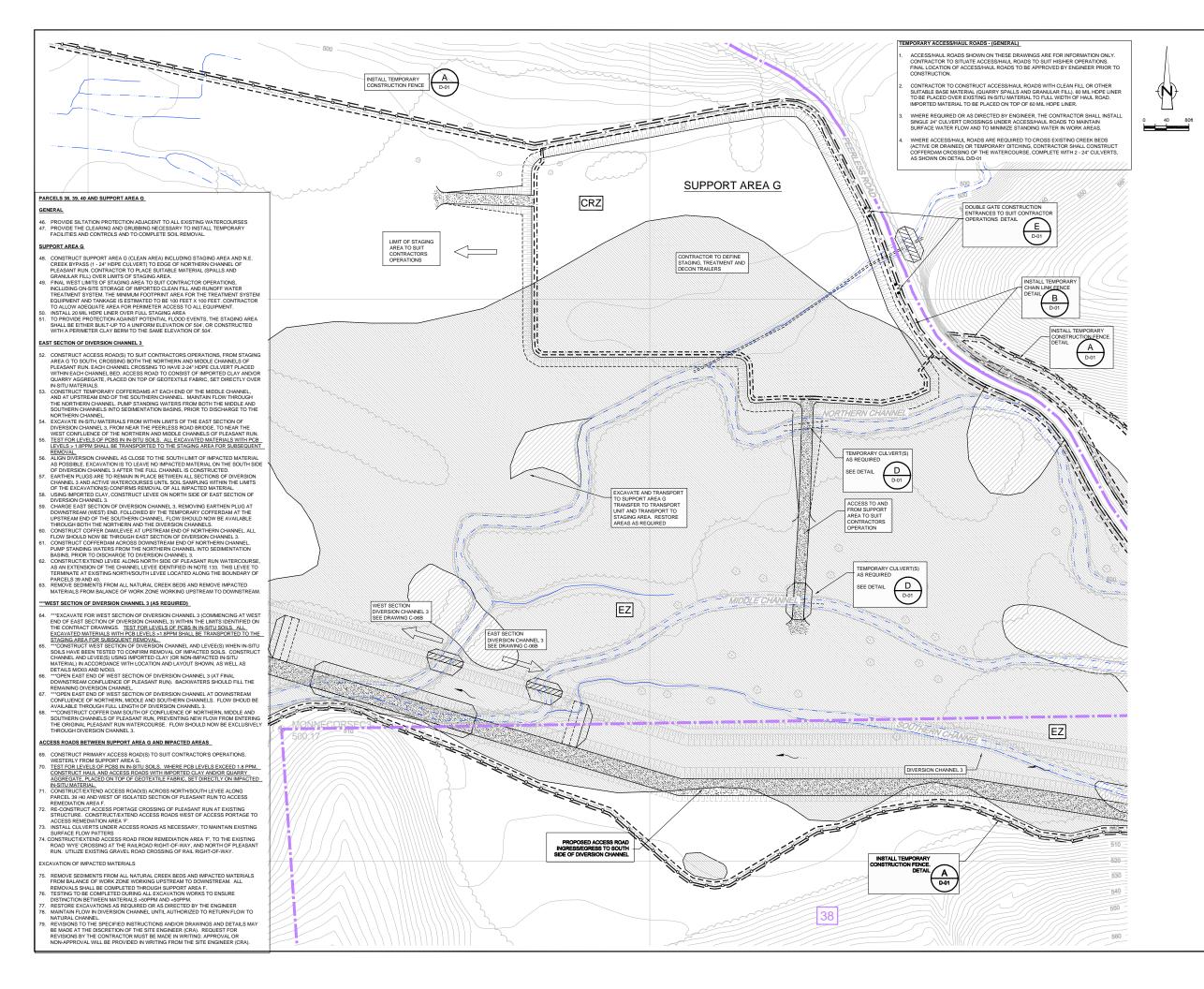
EROSION, SEDIMENT AND STORMWATER CONTROL PARCELS 36, 37, 38, AND 39

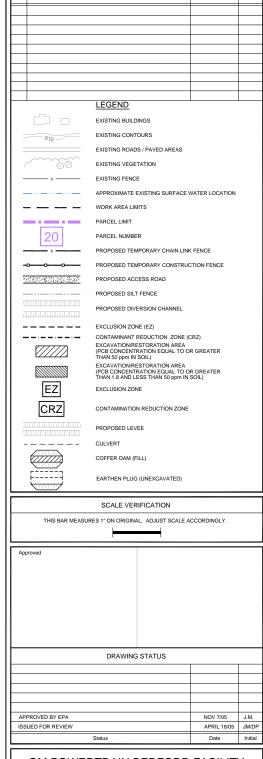


CONESTOGA-ROVERS & ASSOCIATES

OIL EROSION AND SEDIMENT CONTROL

J.M. J.D. 13968-00 129 C-05 B





Revision

# GM POWERTRAIN BEDFORD FACILITY DOWNSTREAM PARCELS REMOVAL ACTION

ADDENDUM No. 2

SITE PREPARATION/EXCAVATION PLAN PARCELS 38, 39A, AND 39B



### CONESTOGA-ROVERS & ASSOCIATES

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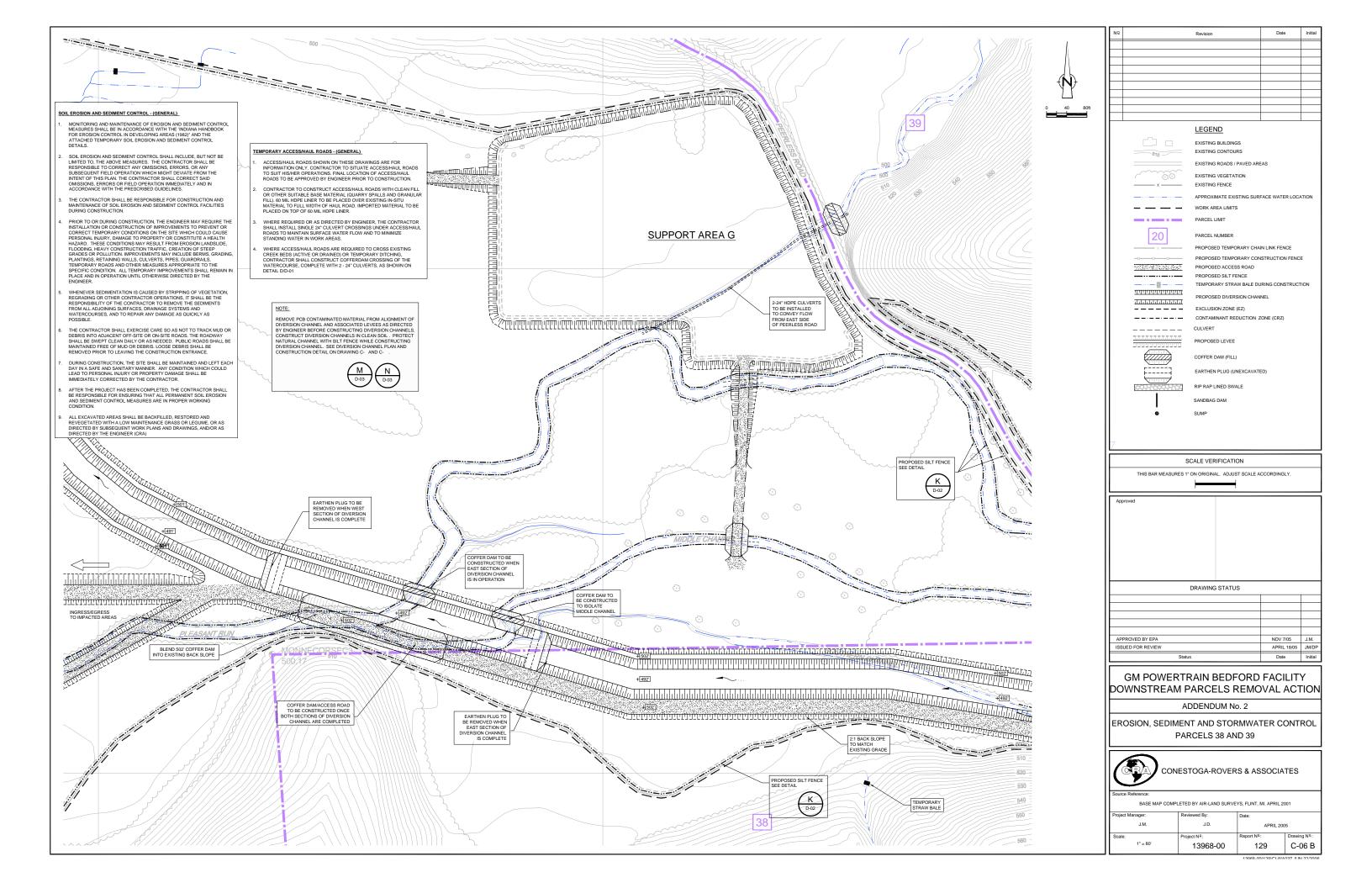
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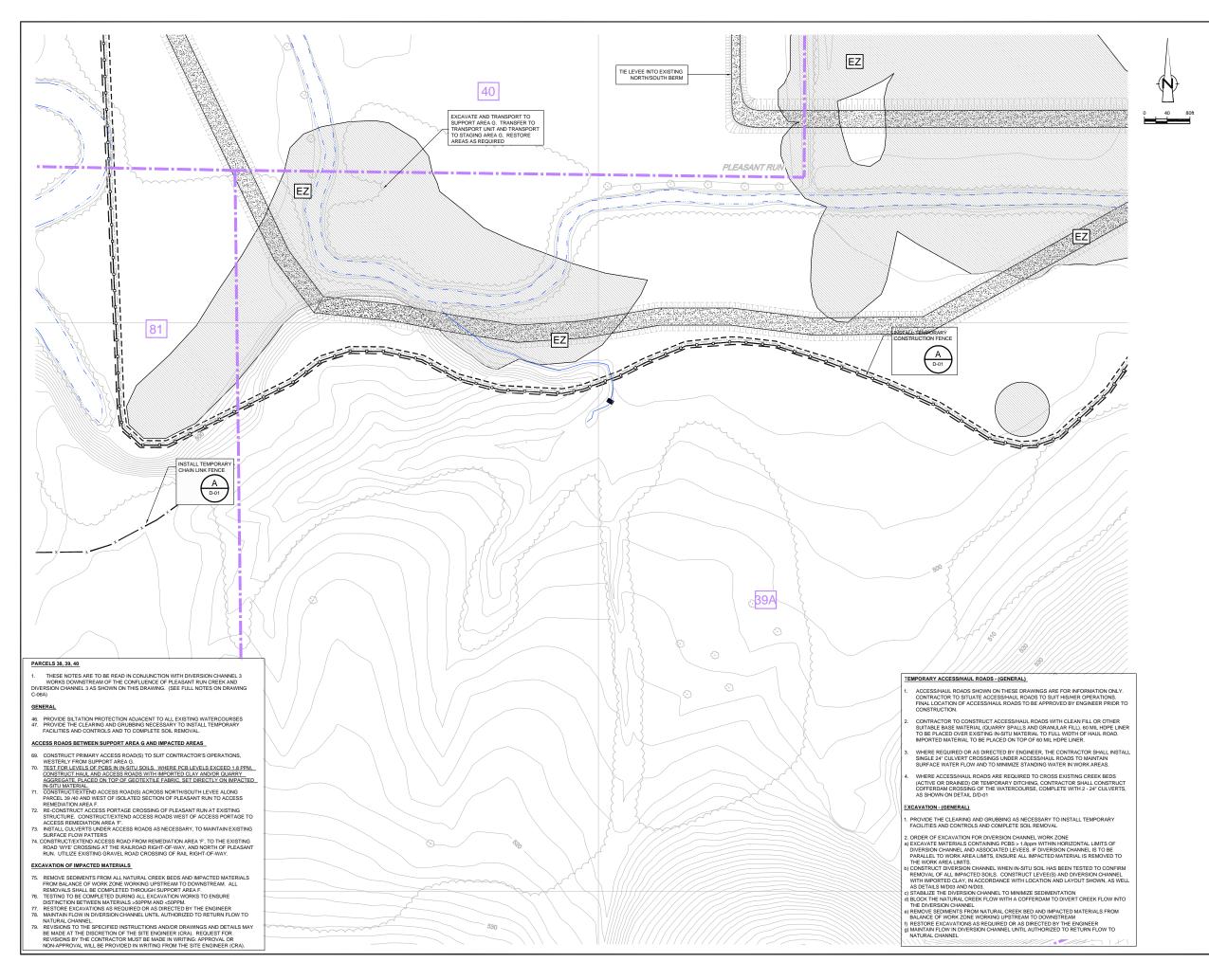
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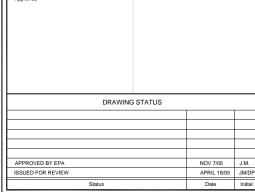
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		rtorioion	****				
	20 20	EXISTING BUILDINGS EXISTING CONTOURS EXISTING ROADS / PAVED AREA EXISTING VEGETATION EXISTING FENCE APPROXIMATE EXISTING SURFA WORK AREA LIMITS PARCEL LIMIT PARCEL NUMBER PROPOSED TEMPORARY CHAIN PROPOSED TEMPORARY CONS' PROPOSED SILT FENCE PROPOSED BILT FENCE PROPOSED DIVERSION CHANNE EXCLUSION ZONE (EZ)	CE WATER LOCAT LINK FENCE RRUCTION FENCE	ION			
		CONTAMINANT REDUCTION ZOI EXCAVATION/RESTORATION AR (PCB CONCENTRATION EQUAL T THAN 50 ppm IN SOIL)	EA TO OR GREATER				
		EXCAVATION/RESTORATION AR (PCB CONCENTRATION EQUAL T THAN 1.8 AND LESS THAN 50 ppr	O OR GREATER				
	EZ	EXCLUSION ZONE					
	CRZ	CONTAMINATION REDUCTION ZO	ONE				
		PROPOSED LEVEE					
		CULVERT					
		COFFER DAM (FILL)					
7		EARTHEN PLUG (UNEXCAVATED	0)				
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# GM POWERTRAIN BEDFORD FACILITY DOWNSTREAM PARCELS REMOVAL ACTION

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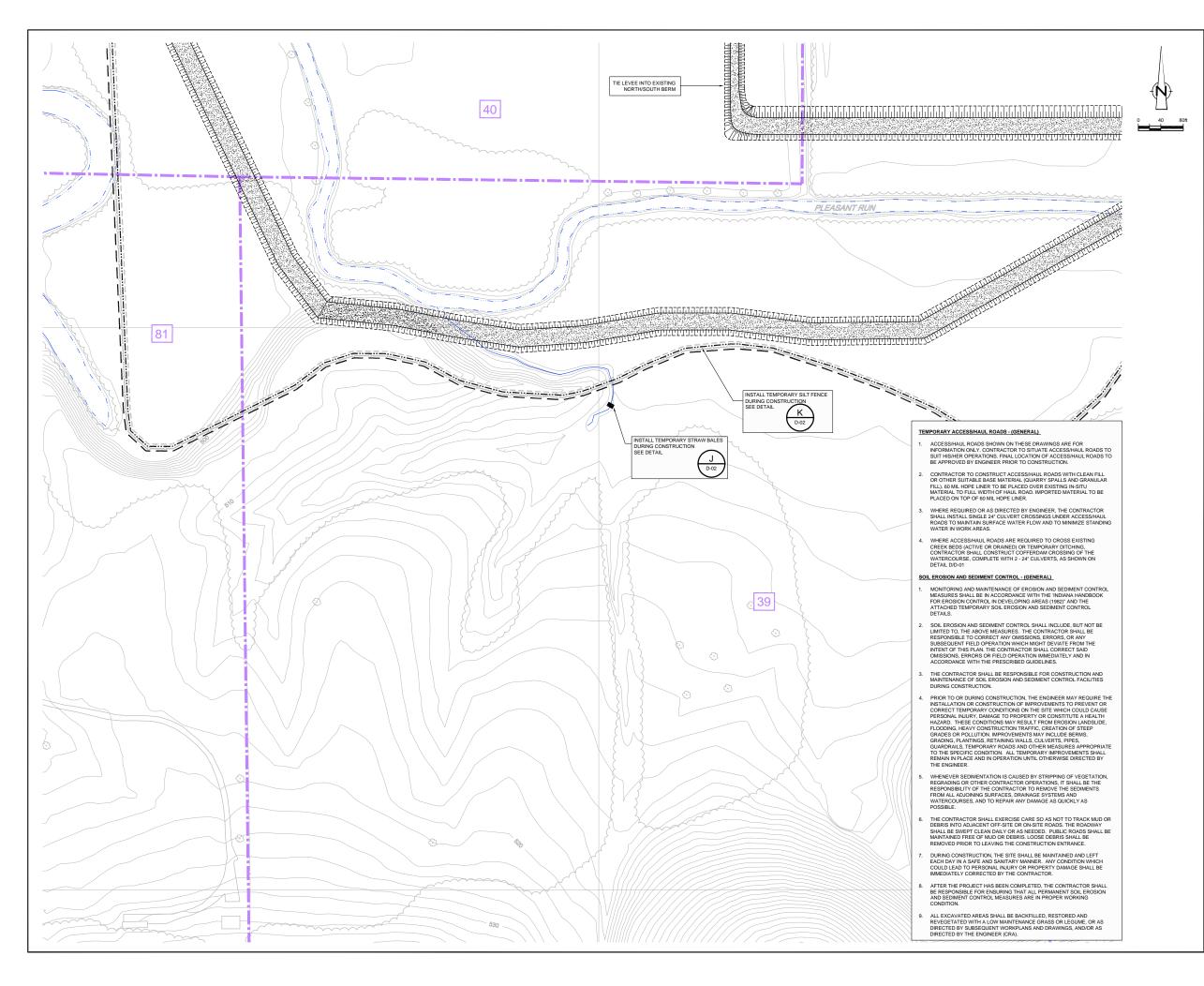
SITE PREPARATION/EXCAVATION PLAN PARCELS 39A, 40, AND 81

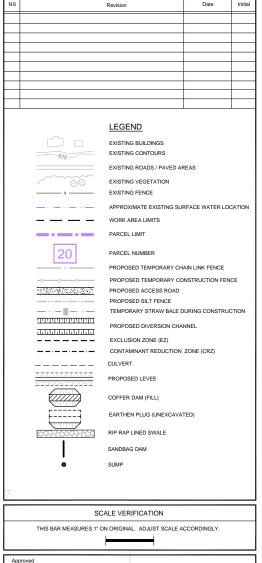


CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI. APRIL 2001





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# GM POWERTRAIN BEDFORD FACILITY DOWNSTREAM PARCELS REMOVAL ACTION

ADDENDUM No.2

EROSION, SEDIMENT AND STORMWATER CONTROL PARCELS 39, 40, AND 41



### CONESTOGA-ROVERS & ASSOCIATES

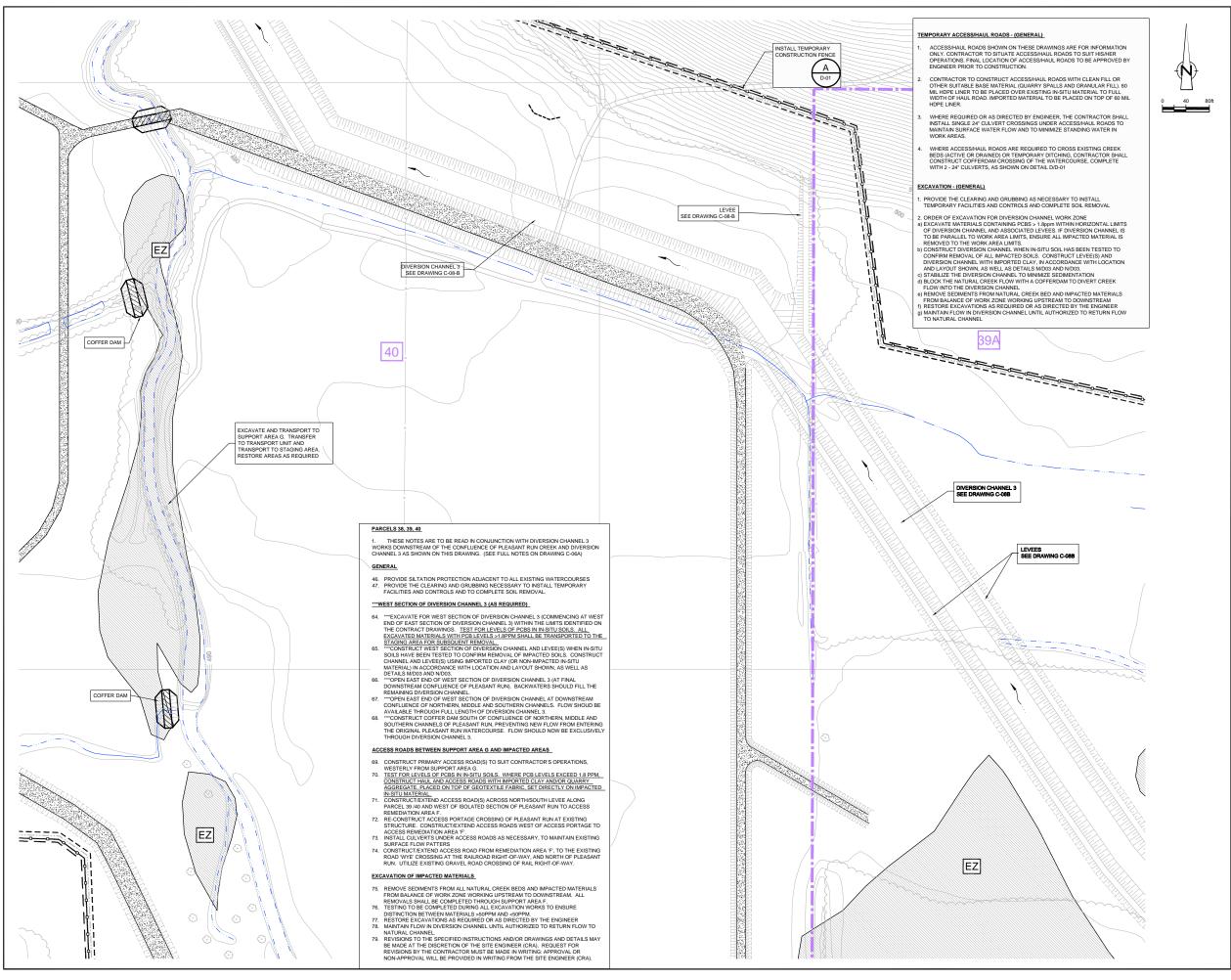
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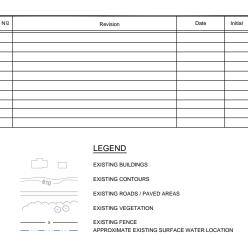
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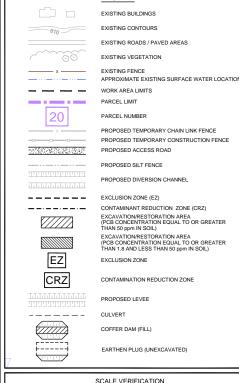
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 J.D.
 APRIL 2005

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 Drawing №:

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Status Date Initial

## GM POWERTRAIN BEDFORD FACILITY DOWNSTREAM PARCELS REMOVAL ACTION

ADDENDUM No. 2

SITE PREPARATION/EXCAVATION PLAN PARCELS 39A, AND 40



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Reference:

BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI. APRIL 2001

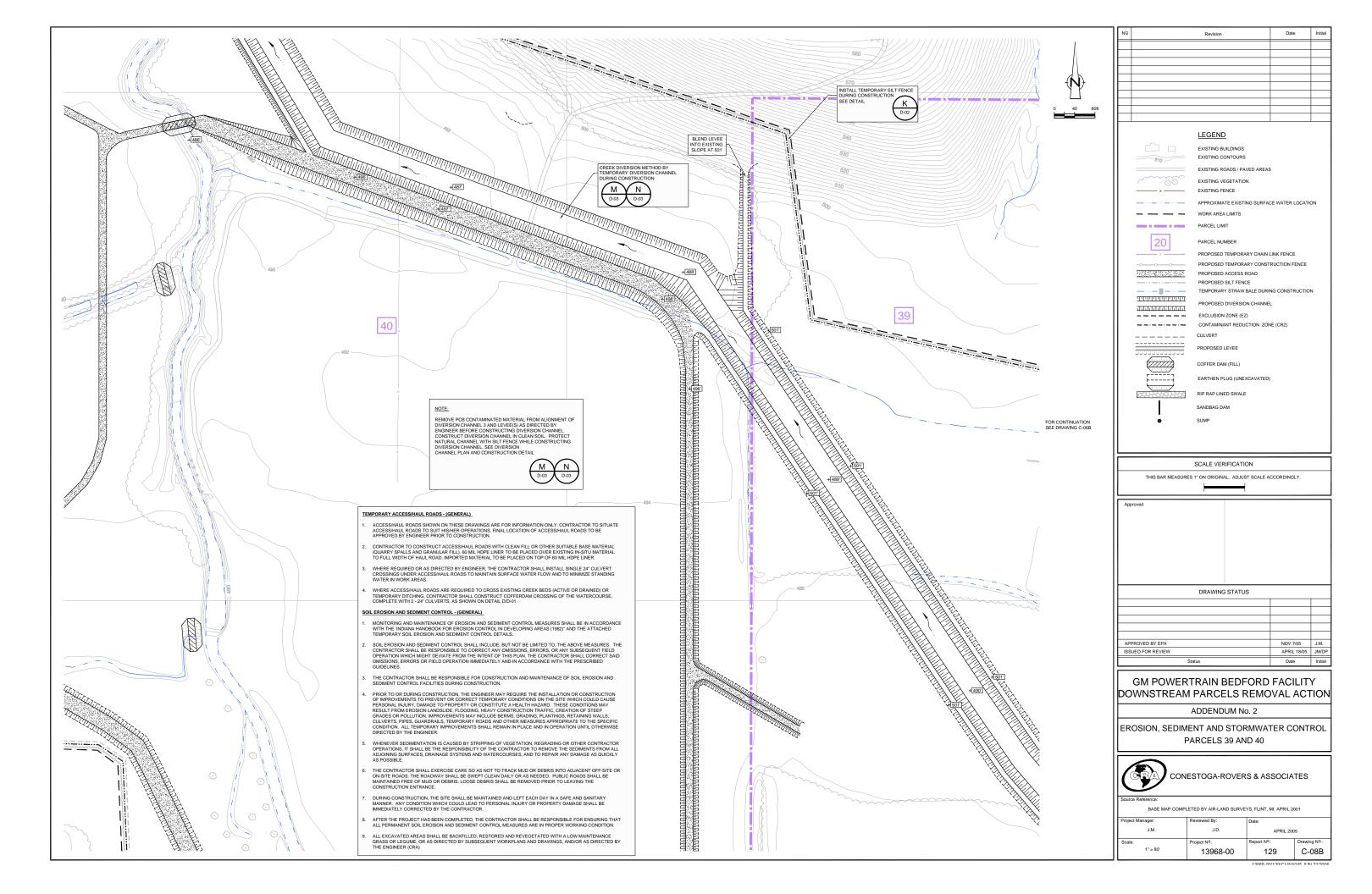
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 Date:

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 J.D.
 APRIL 2005

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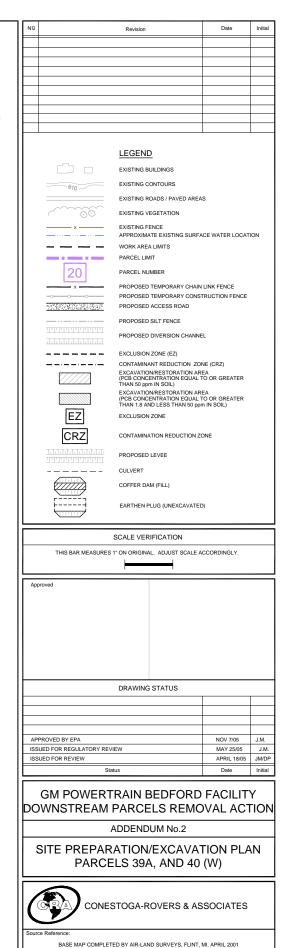
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# PARCELS 38, 39, 40 1. THESE NOTES ARE TO BE READ IN CONJUNCTION WITH DIVERSION CHANNEL 3 WORKS DOWNSTREAM OF THE CONFLUENCE OF PLEASANT RUN CREEK AND DIVERSION CHANNEL 3 AS SHOWN ON THIS DRAWING, (SEE FULL NOTES ON DRAWING C-06A) SEE DRAWING C-10A PROVIDE SILTATION PROTECTION ADJACENT TO ALL EXISTING WATERCOURSES PROVIDE THE CLEARING AND GRUBBING NECESSARY TO INSTALL TEMPORARY FACILITIES AND CONTROLS AND TO COMPLETE SOIL REMOVAL. C D-01 ***WEST SECTION OF DIVERSION CHANNEL 3 (AS REQUIRED) 64. ""EXCAVATE FOR WEST SECTION OF DIVERSION CHANNEL 3 (COMMENCING AT WEST END OF EAST SECTION OF DIVERSION CHANNEL 3) WITHIN THE LIMITS IDENTIFIED ON THE CONTRACT DRAWINGS. TEST FOR LEVELS OF POSIS IN IN-SITU 2013. ALL EXCAVATED MATERIALS WITH PCB LEVELS > 1.8PPM SHALL BE TRANSPORTED TO THE STAGING AREA FOR SUBSOLUENT REMOVAL. 65. ""CONSTRUCT WEST SECTION OF DIVERSION CHANNEL AND LEVEE(S) WHEN IN-SITU ""CONSTRUCT WEST SECTION OF DIVERSION CHANNEL AND LEVEE(S) WHEN IN-SITU SOILS HAVE BEEN TESTED TO CONFIRM REMOVAL OF IMPACTED SOILS. CONSTRUCT CHANNEL AND LEVEE(S) USING IMPORTED CLAY (OR NON-IMPACTED IN-SITU MATERIAL) IN ACCORDANCE WITH LOCATION AND LAYOUT SHOWN), AS WELL AS DETAILS MODS AND NIDUS. "OPEN BAST END OF WEST SECTION OF DIVERSION CHANNEL 3 (AT FINAL DOWNSTREAM CONFILIENCE OF PIEASANT RUIN). BACKWATERS SHOULD FILL THE MODERN SECTION OF DIVERSION CHANNEL 3 (AT FINAL DOWNSTREAM CONFILIENCE OF PIEASANT RUIN). BACKWATERS SHOULD FILL THE MODERN SECTION OF DIVERSION CHANNEL 3 (AT PINAL DOWNSTREAM CONFILIENCE OF SECTION OF DIVERSION CHANNEL AT DOWNSTORM REMAINING DIVERSION CHANNEL. ""OPEN EAST END OF WEST SECTION OF DIVERSION CHANNEL AT DOWNSTREAM CONFLUENCE OF NORTHERN, MIDDLE AND SOUTHERN CHANNELS. FLOW SHOUD BE AVAILABLE THROUGH FULL LENGTH OF DIVERSION CHANNEL 13. "CONSTRUCT COFFER DAM SOUTH OF CONFLUENCE OF NORTHEL SER. MIDDLE AND SOUTHERN CHANNELS OF LEASANT RUIN, PREVENTING NEW FLOW FROM ENTERING THE ORIGINAL PLEASANT RUN WATERCOURSE. FLOW SHOULD NOW BE EXCLUSIVELY THROUGH DIVERSION CHANNEL 3. ACCESS ROADS BETWEEN SUPPORT AREA G AND IMPACTED AREAS 69. CONSTRUCT PRIMARY ACCESS ROAD(S) TO SUIT CONTRACTOR'S OPERATIONS. CONST INCT PRIMARY ACCESS ROADS IT OF THE TOTAL TO SEPERATIONS, WESTERLY FROM SUPPORT AREA G. TEST FOR LEVELS OF POBS IN IN-SITU SOILS. WHERE PCB LEVELS EXCEED 1.8 PPM, CONSTRUCT HAUL AND ACCESS ROADS WITH IMPORTED CLAY ANDIOR QUARRY AGGREGATE, PLACED ON TOP OF GEOTEXTILE FABRIC, SET DIRECTLY ON IMPACTED WESTERMATED IN-SITU MATERIAL. CONSTRUCT/EXTEND ACCESS ROAD(S) ACROSS NORTH/SOUTH LEVEE ALONG PARCEL 39 /40 AND WEST OF ISOLATED SECTION OF PLEASANT RUN TO ACCESS ΕZ FANCES AND AND WEST OF ISSUED SECTION OF FLEASANT RUN TO ROCKES REMEDIATION AREA F. RE-CONSTRUCT ACCESS PORTAGE CROSSING OF PLEASANT RUN AT EXISTING STRUCTURE. CONSTRUCT/EXTEND ACCESS ROADS WEST OF ACCESS PORTAGE TO ACCESS REMEDIATION AREA F. INSTALL CULVERTS UNDER ACCESS ROADS AS NECESSARY, TO MAINTAIN EXISTING SURFACE FLOW PATTERS SURFACE FLOW PATTERS 74. CONSTRUCT/EXTEND ACCESS ROAD FROM REMEDIATION AREA 'F', TO THE EXISTING ROAD WYE' CROSSING AT THE RAILROAD RIGHT-OF-WAY, AND NORTH OF PLEASANT RUN. UTILIZE EXISTING GRAVEL ROAD CROSSING OF RAIL RIGHT-OF-WAY. **EXCAVATION OF IMPACTED MATERIALS** 75. REMOVE SEDIMENTS FROM ALL NATURAL CREEK BEDS AND IMPACTED MATERIALS FROM BALANCE OF WORK ZONE WORKING UPSTREAM TO DOWNSTREAM. ALL REMOVALS SHALL BE COMPLETED THROUGH SUPPORT AREA F. TESTING TO BE COMPLETED DURING ALL EXCAVATION WORKS TO ENSURE DISTINCTION BETWEEN MATERIALS > 50PPM AND < 50PPM. RESTORE EXCAVATIONS AS REQUIRED OR AS DIRECTED BY THE ENGINEER MAINTAIN FLOW IN DIVERSION CHANNEL UNTIL AUTHORIZED TO RETURN FLOW TO MATURAL CHANNEL REVISIONS TO THE SPECIFIED INSTRUCTIONS AND/OR DRAWINGS AND DETAILS MAY BE MADE AT THE DISCRETION OF THE SITE ENGINEER (CRA). REQUEST FOR REVISIONS BY THE CONTRACTOR MUST BE MADE IN WRITING: APPROVAL OR RON-APPROVAL WILL BE PROVIDED IN WRITING FROM THE SITE ENGINEER (CRA). TEMPORARY ACCESS/HAUL ROADS - (GENERAL) ACCESS/HAUL ROADS SHOWN ON THESE DRAWINGS ARE FOR INFORMATION OPERATIONS. FINAL LOCATION OF ACCESS/HAUL ROADS TO BE APPROVED BY ENGINEER PRIOR TO CONSTRUCTION. INSTALL TEMPORAR CONTRACTOR TO CONSTRUCT ACCESS/HAUL ROADS WITH CLEAN FILL OR OTHER SUITABLE BASE MATERIAL, (QUARRY SPALLS AND GRANULAR FILL), 60 MIL HDPE LINER TO BE PLACED OVER EXISTING IN-SITU MATERIAL TO FULL WIDTH OF HAUL ROAD. IMPORTED MATERIAL TO BE PLACED ON TOP OF 60 MIL A D-01 3. WHERE REQUIRED OR AS DIRECTED BY ENGINEER, THE CONTRACTOR SHALL INSTALL SINGLE 24" CULVERT CROSSINGS UNDER ACCESSHAUL ROADS TO MAINTAIN SURFACE WATER FLOW AND TO MINIMIZE STANDING WATER IN ΕZ WORK AREAS. WHERE ACCESSHAUL ROADS ARE REQUIRED TO CROSS EXISTING CREEK BEDS (ACTIVE OR DRAINED) OR TEMPORARY DITCHING, CONTRACTOR SHAL CONSTRUCT COFFERDAM CROSSING OF THE WATERCOURSE, COMPLETE WITH 2 - 24* CULVERTS, AS SHOWN ON DETAIL DID-01 EXCAVATION - (GENERAL) 1 PROVIDE THE CLEARING AND GRURRING AS NECESSARY TO INSTALL TEMPORARY FACILITIES AND CONTROLS AND COMPLETE SOIL REMOVAL TEMPORARY FACILITIES AND CONTROLS AND COMPLETE SUIL REMOVAL 2. ORDER OF EXCAVATION FOR DIVERSION CHANNEL WORK ZONE a) EXCAVATE MATERIALS CONTAINING POBS > 1.8ppm WITHIN HORIZONTAL LIMITS OF DIVERSION CHANNEL AND ASSOCIATED LEVESS. IF DIVERSION CHANNEL IS TO BE PARALLEL TO WORK AREA LIMITS. B) CONSTRUCT DIVERSION OHANNEL WHEN IN-SITU SOIL HAS BEEN TESTED TO CONFIRM REMOVAL OF ALL IMPACTED SOILS. CONSTRUCT LEVE(S) AND DIVERSION CHANNEL WITH IMPORTED CLAY, IN ACCORDANCE WITH LOCATION AND LAYOUT SHOWN, AS WELL AS DETAILS IMDOS AND NDOS. 5 STABILEZ THE DIVERSION CHANNEL ON IMMINIZE SEDIMENTATION d) BLOCK THE NATURAL CREEK FLOW WITH A COFFERDAM TO DIVERT CREEK FLOW INTO THE PURPSION CHANNEL FLOW INTO THE PURPSION CHANNEL 100 WINTO THE PURPSION CHANNEL 39A O BLOCK THE NATIONAL EXCENT OWN IN A COFFERENCIAL DISPOSAL OF SECTION OF THE DIVERSION CHANNEL PLOW INTO THE DIVERSION CHANNEL PROME SEDIMENTS FROM NATURAL CREEK BED AND IMPACTED MATERIALS FROM BALANCE OF WORK ZONE WORKING UPSTREAM TO DOWNSTREAM PRESTORE EXCAVATIONS AS REQUIRED OR AS DIRECTED BY THE ENGINEER MAINTAIN FLOW IN DIVERSION CHANNEL UNIT. AUTHORIZED TO RETURN FLOW

g) MAINTAIN FLOW IN DIVER TO NATURAL CHANNEL



FOR CONTINUATION

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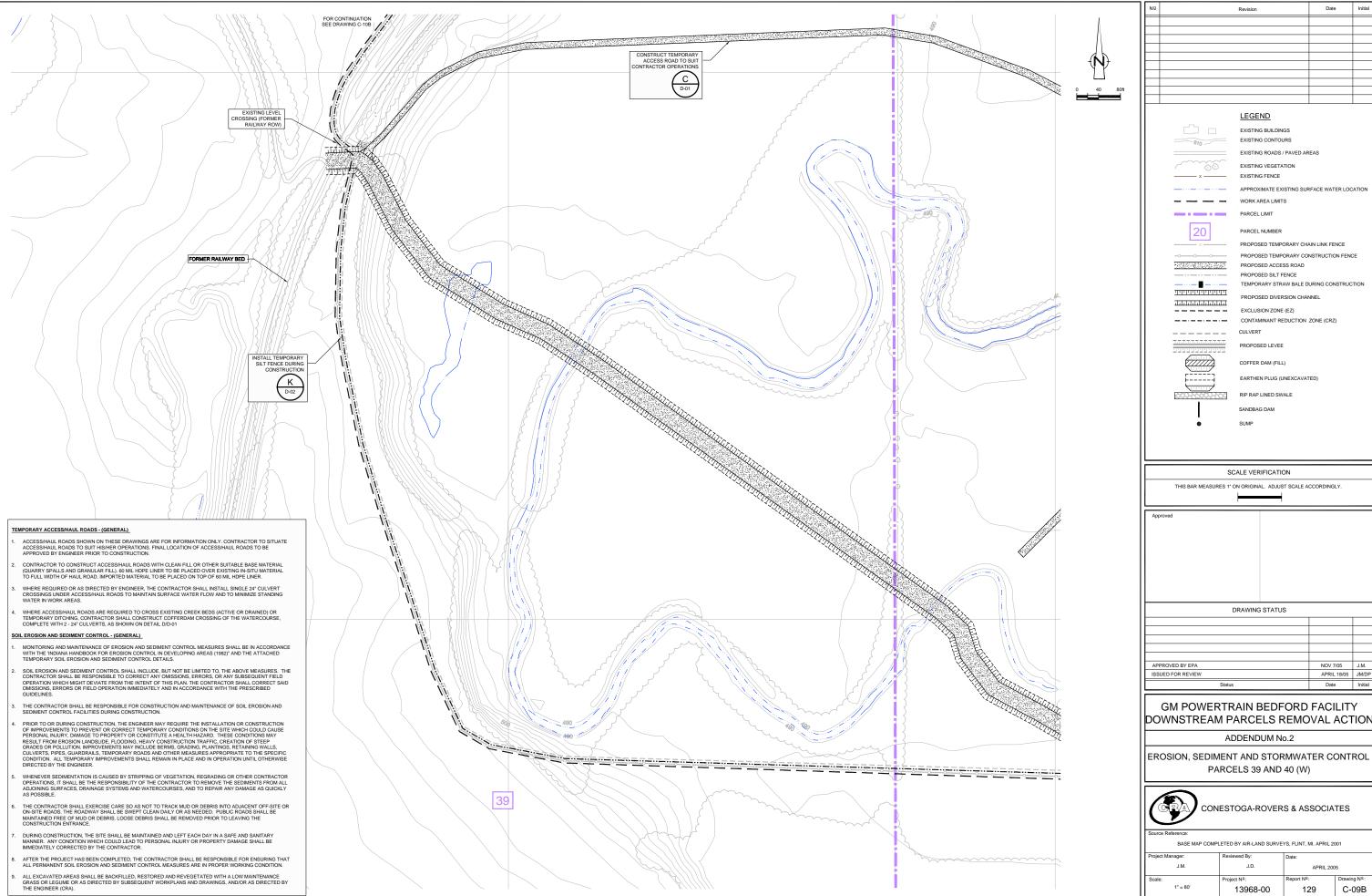
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APRII 2005

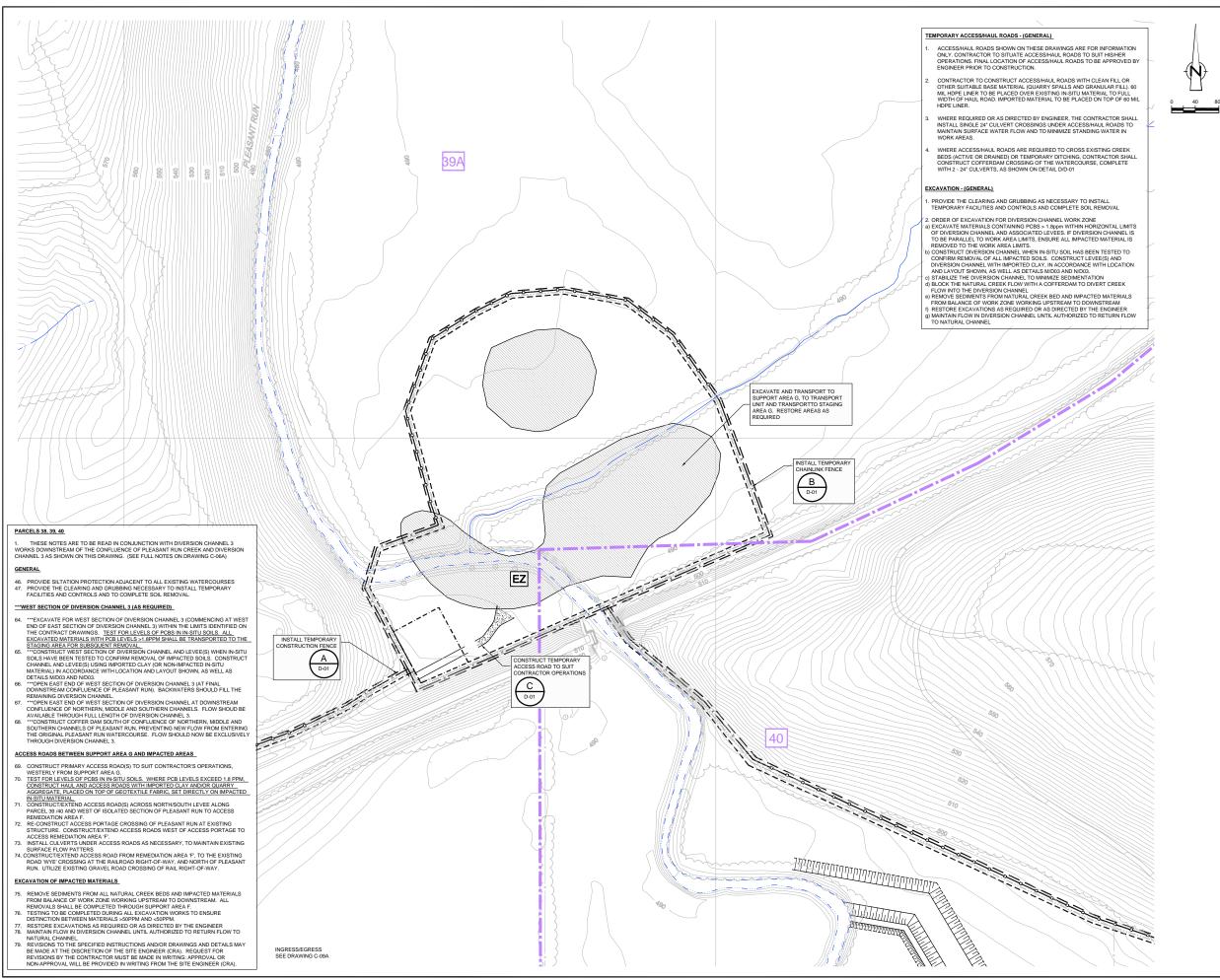
J.M.

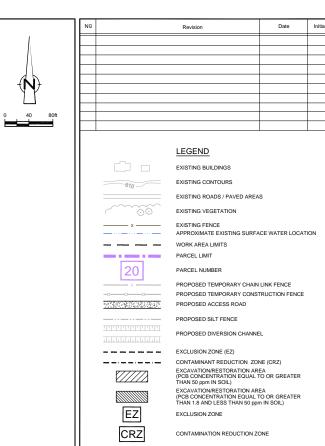
J.D.

13968-00



C-09B





SCALE VERIFICATION

PROPOSED LEVEE
CULVERT

COFFER DAM (FILL)

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

EARTHEN PLUG (UNEXCAVATED)

GM POWERTRAIN BEDFORD FACILITY DOWNSTREAM PARCELS REMOVAL ACTION

ADDENDUM No.2

SITE PREPARATION/EXCAVATION PARCELS 39A, AND 40 (NW)



CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

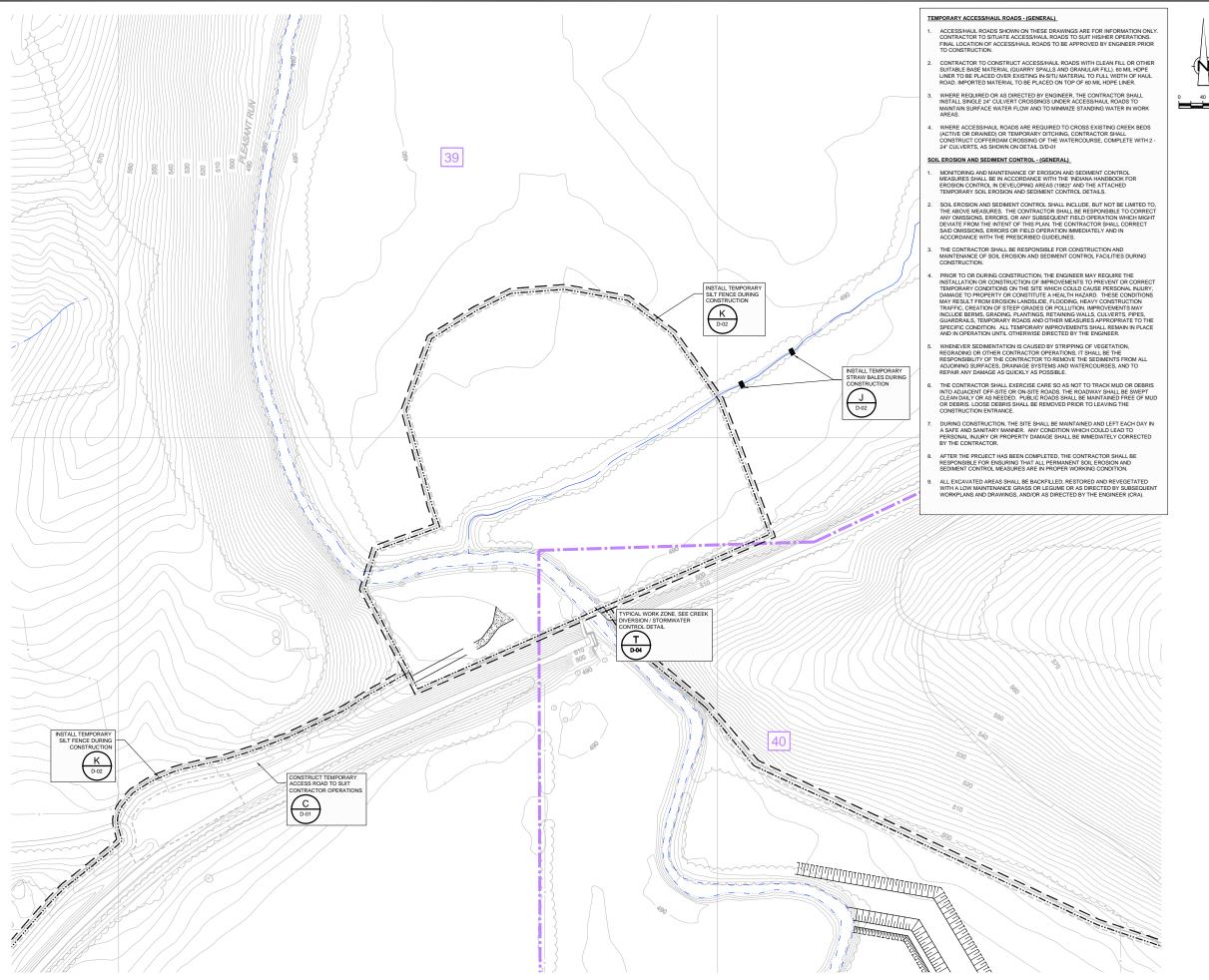
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI. APRIL 2001

It Manager: Reviewed By: Date:

J.D. APRIL 2005

e: Project Nº: Report Nº: Drawing Nº: 13968-00 129 C-10 A

12068-00/120/CI-WANES MAY 16/2006





	LEGEND
	EXISTING BUILDINGS EXISTING CONTOURS
610	EXISTING ROADS / PAVED AREAS
	EXISTING VEGETATION
x	EXISTING FENCE
	APPROXIMATE EXISTING SURFACE WATER LOCATION
	WORK AREA LIMITS
	PARCEL LIMIT
20	PARCEL NUMBER
x	PROPOSED TEMPORARY CHAIN LINK FENCE
-00	PROPOSED TEMPORARY CONSTRUCTION FENCE
21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROPOSED ACCESS ROAD
	PROPOSED SILT FENCE TEMPORARY STRAW BALE DURING CONSTRUCTION
111111111111111111	PROPOSED DIVERSION CHANNEL
	EXCLUSION ZONE (EZ)
	CONTAMINANT REDUCTION ZONE (CRZ)
	CULVERT
IIIIIIIIIII	PROPOSED LEVEE
222222	
(11111)	COFFER DAM (FILL)
[ <u>-</u>	EARTHEN PLUG (UNEXCAVATED)
	RIP RAP LINED SWALE
	SANDBAG DAM
i	SUMP

Approved				
	DRAWING	STATUS		
APPROVED BY EPA			NOV 7/05	J.M.
ISSUED FOR REVIEW			APRIL 18/05	JM/DP
	Status		Date	Initial

SCALE VERIFICATION THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

# GM POWERTRAIN BEDFORD FACILITY DOWNSTREAM PARCELS REMOVAL ACTION

ADDENDUM No.2

EROSION, SEDIMENT AND STORMWATER CONTROL PARCELS 39 AND 40 (NW)



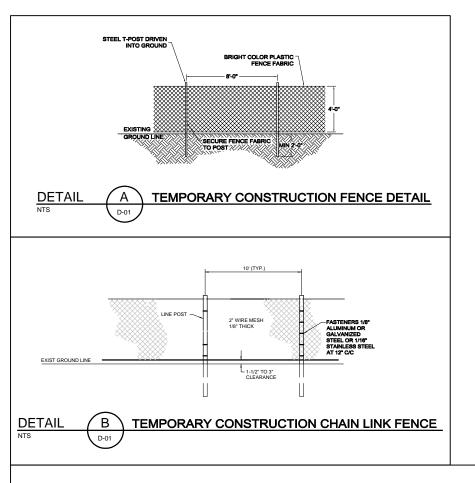
CONESTOGA-ROVERS & ASSOCIATES

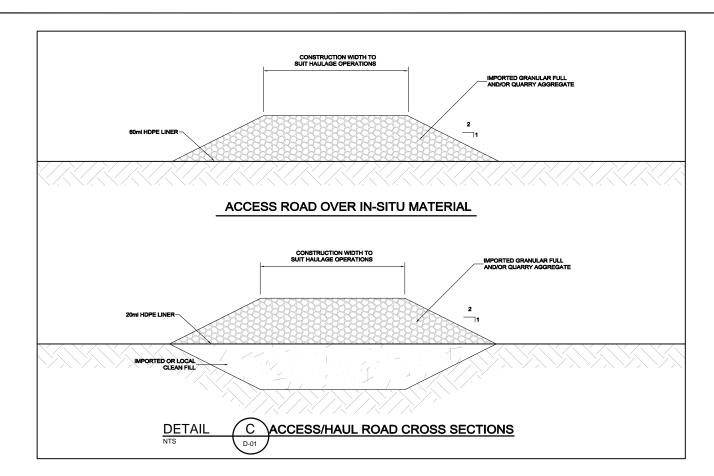
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI. APRIL 2001

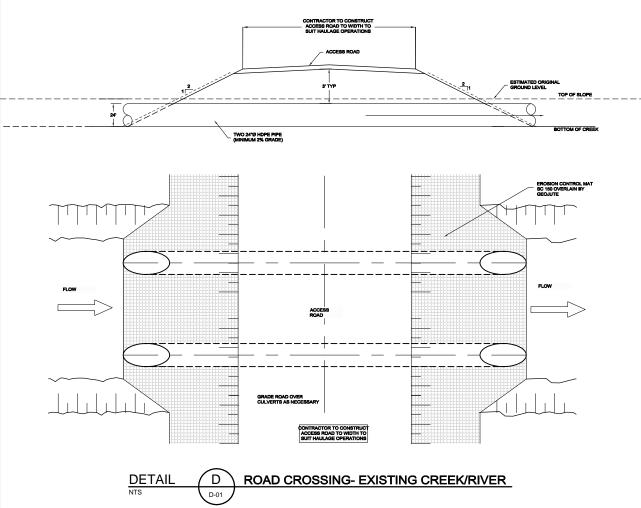
J.M. J.D. APRIL 2005

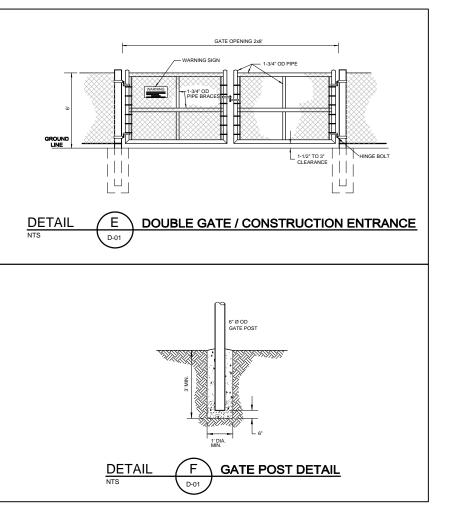
13968-00

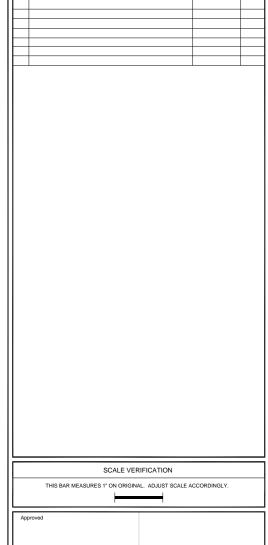
C-10B



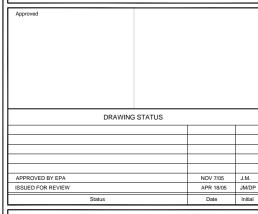








Revision



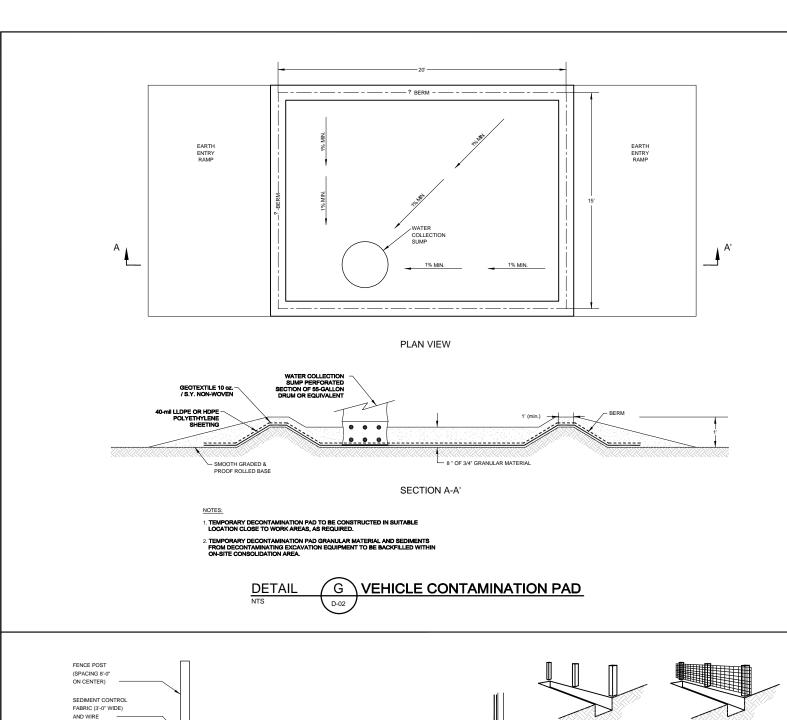
**GM POWERTRAIN BEDFORD FACILITY** DOWNSTREAM PARCELS REMOVAL ACTION ADDENDUM No.2 **DETAILS** 

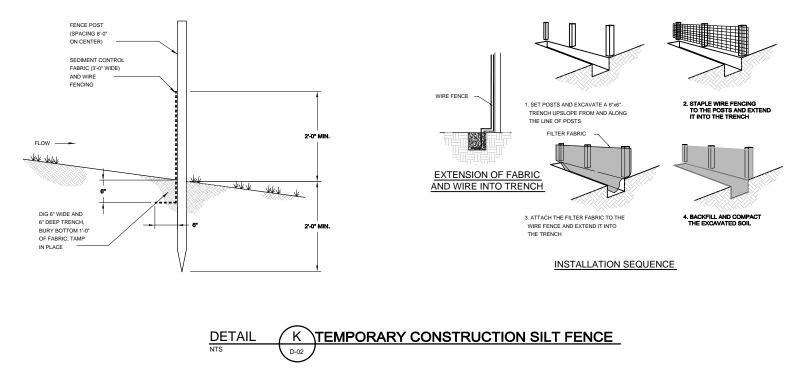
SHEET 1 OF 4

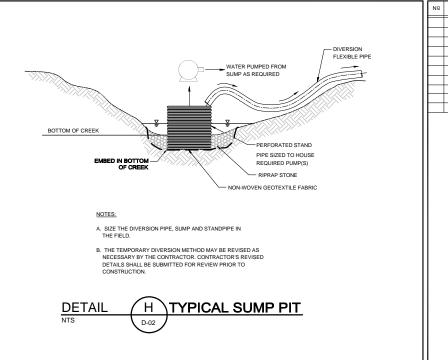


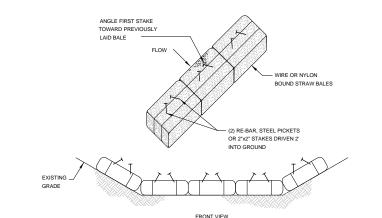
CONESTOGA-ROVERS & ASSOCIATES

J.M. 129 13968-00 D-01

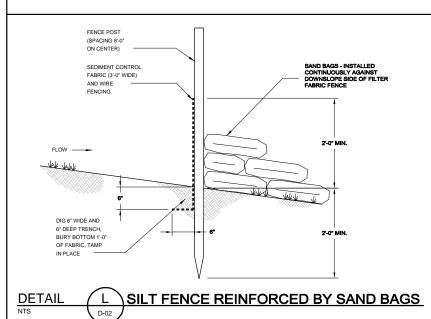








### **DETAIL** TEMPORARY CONSTRUCTION STRAW BALE D-02



Revision	Duto	

SCALE VERIFICATION THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

DRAWING STATUS ISSUED FOR REVIEW APR 18/05 JM/DP

**GM POWERTRAIN BEDFORD FACILITY** DOWNSTREAM PARCELS REMOVAL ACTION

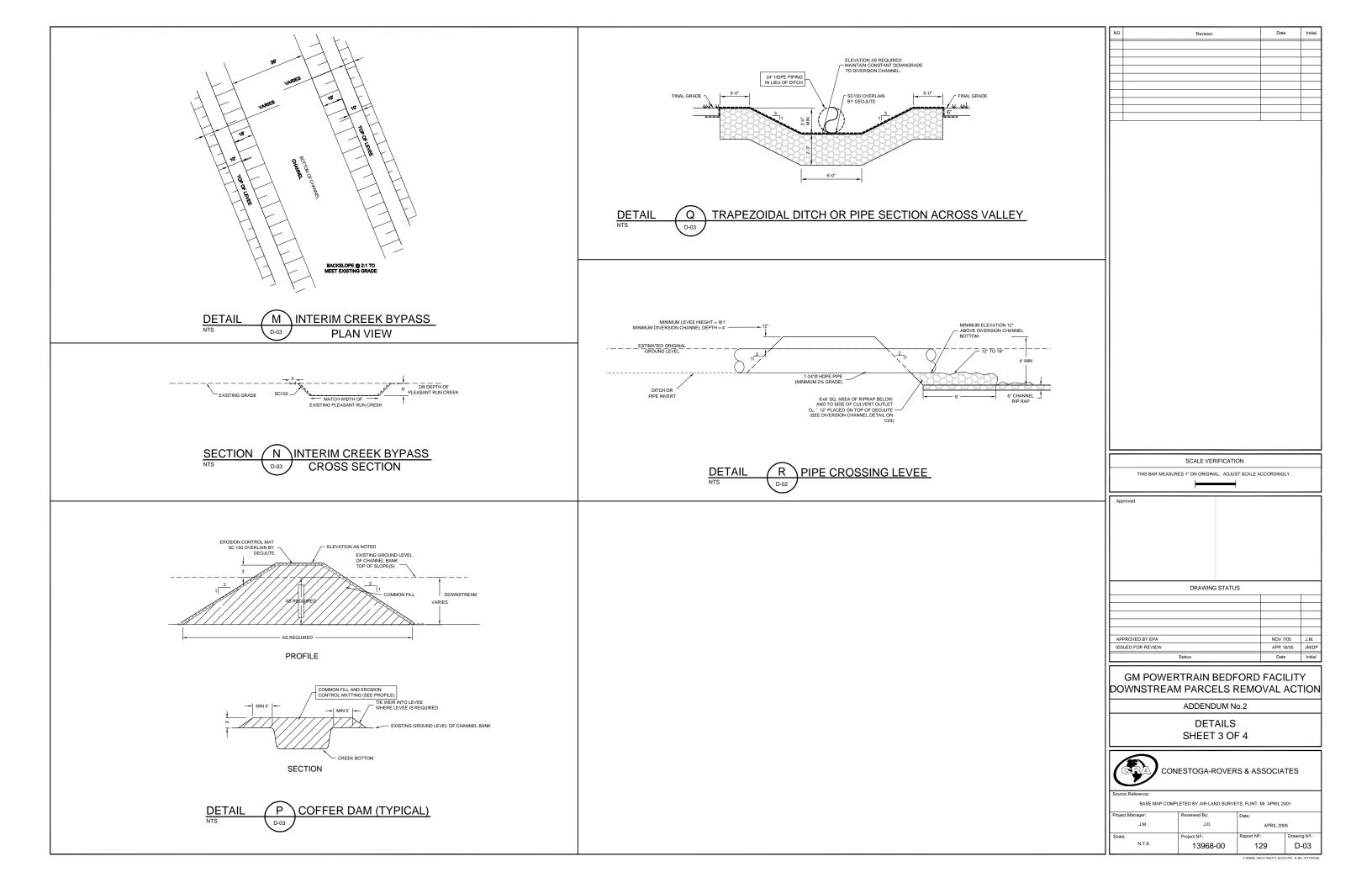
ADDENDUM No.2

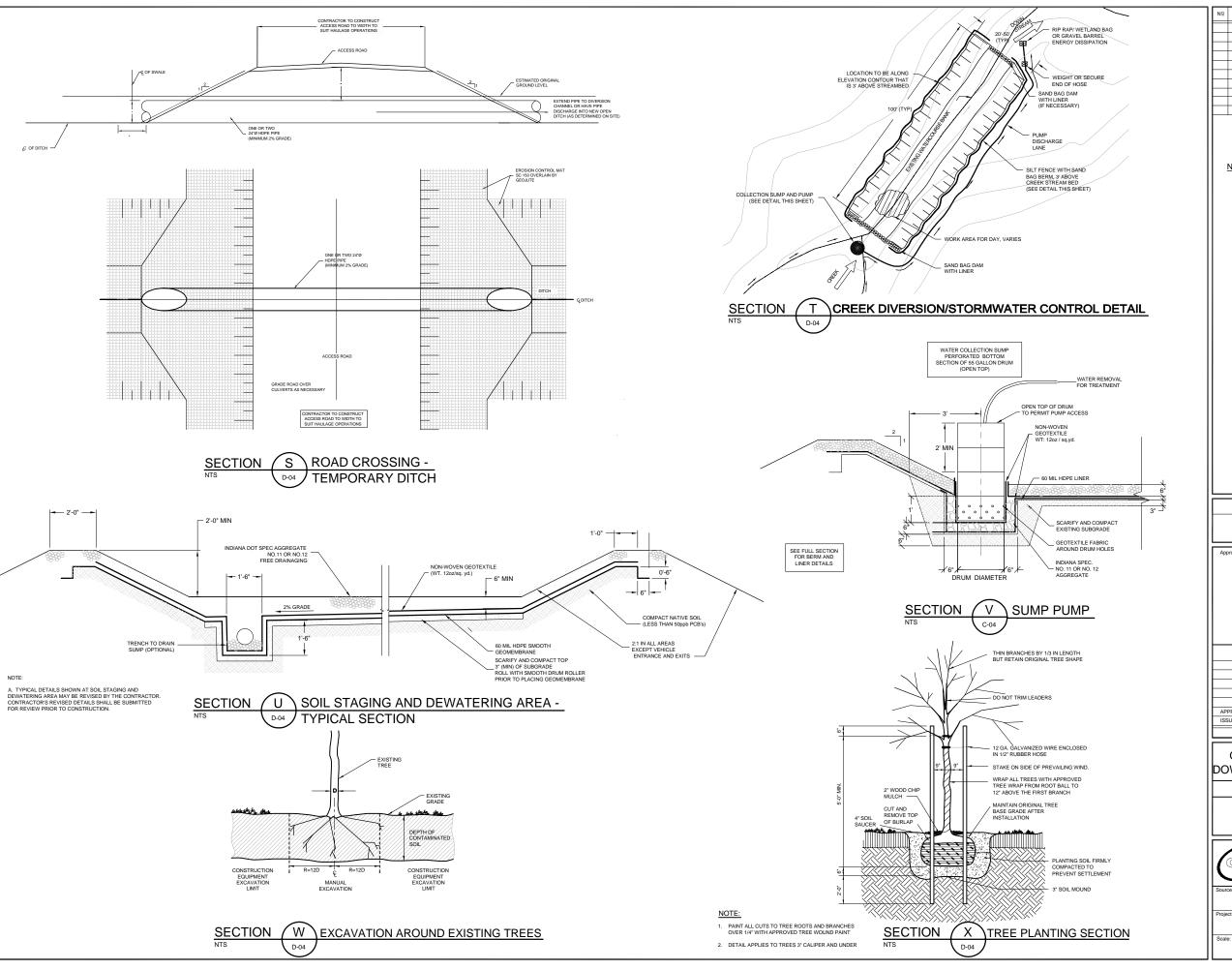
**DETAILS** SHEET 2 OF 4



CONESTOGA-ROVERS & ASSOCIATES

J.M. J.D. 13968-00 129 D-02





	Nº	Revision	Date	Initial
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### NOTES:

- INSTALL UPSTREAM SANDBAG (OR EQUIVALENT) CHECK DAM WITH GEOTEXTILE LINER ACROSS WATERCOURSE AND MATCH EXISTING BANKE

   AND MATCH EXISTING
   TO SHARM THE PROPERTY OF THE PROPERTY OF
- INSTALL SO THAT FLOW UNDER OR BETWEEN BAGS IS PREVENTED OVERLAPPING THE STACKED BAGS AND ENTRENCHING THE BOTTO SET
- 3. SAND BAG BARRIERS SHALL BE REGULARLY INSPECTED AND MAINTAINED AND ANY BREAKS OR UNDERCUTTING IN THE BARRIER SHALL BE PROMPTLY REPAIRED.
- 4. REMOVE SEDIMENT BEHIND THE BARRIER WHEN IT ACCUMULATES.
- 5. REPLACE BROKEN BAGS IMMEDIATELY.
- 6. INSTALL INSTREAM PUMP OR INTAKE LINE OF REMOTE PUMP IN SUMP LOCATED UPSTREAM OF WORK AREA. DISCHARGE WATER THROUGH OR INTO AN ENERGY DISSIPATER INTO THE WATERCOURSE SUFFICIENTLY DOWNSTREAM TO PREVENT WATER FLOWING BACK INTO WORK AREA. (USE TEMPORARY SANDBAG BACKWATER DAM IF NECESSARY.)
- 7. THE TEMPORARY DIVERSION METHOD MAY BE REVISED AS NECESSARY BYTHE CONTRACTOR. CONTRACTOR'S REVISED DETAILS SHALL BE SUBMITTED FOR REVIEW NAD APPROVAL BY ENGINEER AND PERMITTING AGENCIES PRIOR TO CONSTRUCTION.
- 8. COLLECT SEEPAGE INTO EXCAVATION AREA. TRANSPORT TO THE WASTEWATER TREATMENT SYSTEM.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

DRAWING STATUS

APPROVED BY EPA
ISSUED FOR REVIEW
APR 18/05
Status
Date
Initial

# GM POWERTRAIN BEDFORD FACILITY DOWNSTREAM PARCELS REMOVAL ACTION

ADDENDUM No.2

DETAILS SHEET 4 OF 4



CONESTOGA-ROVERS & ASSOCIATES