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## LETTER OF TRANSMITTAL

Attention City of Akron Review Department Date 4-15-09 Job No 2009213.00  
 To City of Akron Review Department Re Haleys Ditch Remediation and Restoration  
1030 E. Tallmadge Ave. Grading Plan  
Akron, Ohio 44310

### WE ARE SENDING YOU

- Attached  Under separate cover via \_\_\_\_\_ the following items:  
 Shop drawings  Prints  Plans  Samples  Specifications  
 Copy of letter  Change order  Sepias  \_\_\_\_\_

| COPIES | DATE | NO. | DESCRIPTION                |
|--------|------|-----|----------------------------|
| 10     |      |     | Hayles Ditch Grading Plans |
| 1      |      |     | City of Akron Application  |
| 1      |      |     | Check for \$100            |
|        |      |     |                            |
|        |      |     |                            |
|        |      |     |                            |
|        |      |     |                            |

### THESE ARE TRANSMITTED as checked below:

- For compliance  Complies as submitted  Resubmit \_\_\_\_\_ copies for compliance  
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 For review and comment  \_\_\_\_\_  
 FOR BIDS DUE \_\_\_\_\_ 20\_\_\_\_  PRINTS RETURNED AFTER LOAN TO US

### REMARKS:

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Copy to Dave Gunnerson, Arcadis, EnviroScience, File Signed Matthew A. Lascola, P.E. las

Technician: emhaston

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2 WORKING DAYS BEFORE YOU DIG  
 CALL 800-362-2764 (TOLL FREE)  
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 NON-MEMBERS MUST BE CALLED DIRECTLY

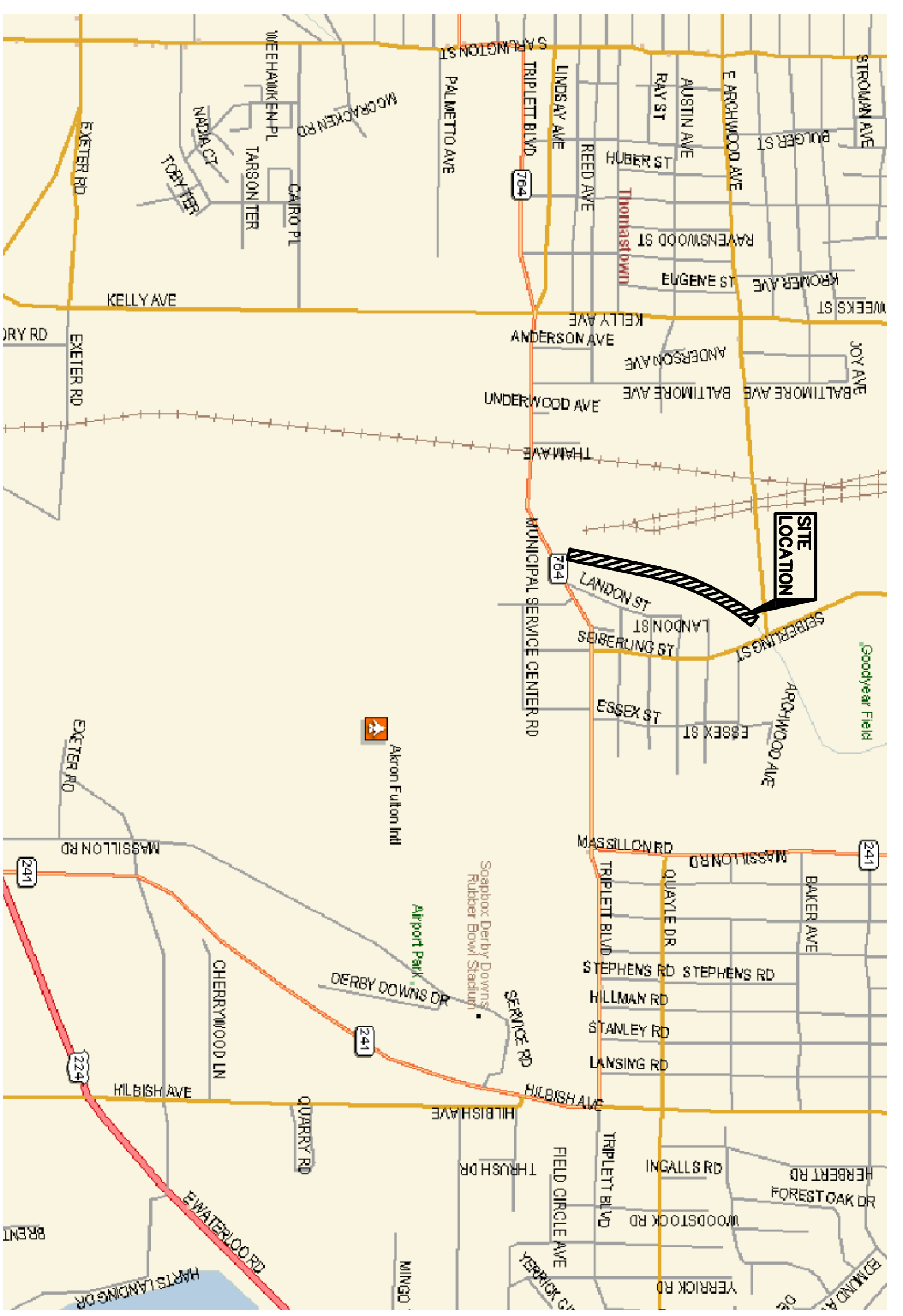
**PREPARED FOR:**  
 LOOKHEED MARTIN  
 1210 MASSILLON ROAD  
 AKRON, OHIO 44315  
 CONTACT: STEVE VARDAVAS  
 PHONE: 330-796-2185

**PREPARED BY:**  
 RIVERWORKS  
 3781 DARROW ROAD  
 STON, OHIO 44224  
 CONTACT: JAMIE KREUSA  
 PHONE: 330-688-0111

GPD GROUP  
 520 S. MAIN STREET  
 AKRON, OHIO 44311  
 CONTACT: MATT LASCOLO  
 PHONE: 330-527-2100

# HALEY'S DITCH REMEDIATION AND RESTORATION GRADING AND RESTORATION GRADING PLAN

CITY OF AKRON  
 COUNTY OF SUMMIT  
 STATE OF OHIO  
 2009



**LOCATION MAP**  
 SCALE: N.T.S.

**DRAWING INDEX**

| DRAWING NO. | TITLE SHEET                                 |
|-------------|---|
| GR-1        | PROJECT KEY PLAN & NOTES                    |
| GR-2        | SOUTH WORK ZONE - ACCESS STAGING & GRADING  |
| GR-3        | MIDDLE WORK ZONE - ACCESS STAGING & GRADING |
| GR-4        | NORTH WORK ZONE - ACCESS STAGING & GRADING  |
| GR-5        |   |

**NOTE: DESIGN/BUILD USE ONLY**

DARRIN KOTECKI, P.E. #57418 \_\_\_\_\_ DATE \_\_\_\_\_

|             |            |         |
|-------------|------------|---------|
| <b>GR-1</b> | DESIGNED   | DATE    |
|             | DRAWN      | 4-13-09 |
|             | CHECKED    | 4-13-09 |
| JOB NO.     | 2009213.00 |         |
| DATE        | 4-13-09    |         |

**HALEY'S DITCH  
 REMEDIATION AND RESTORATION  
 GRADING PLAN**

**TITLE SHEET**

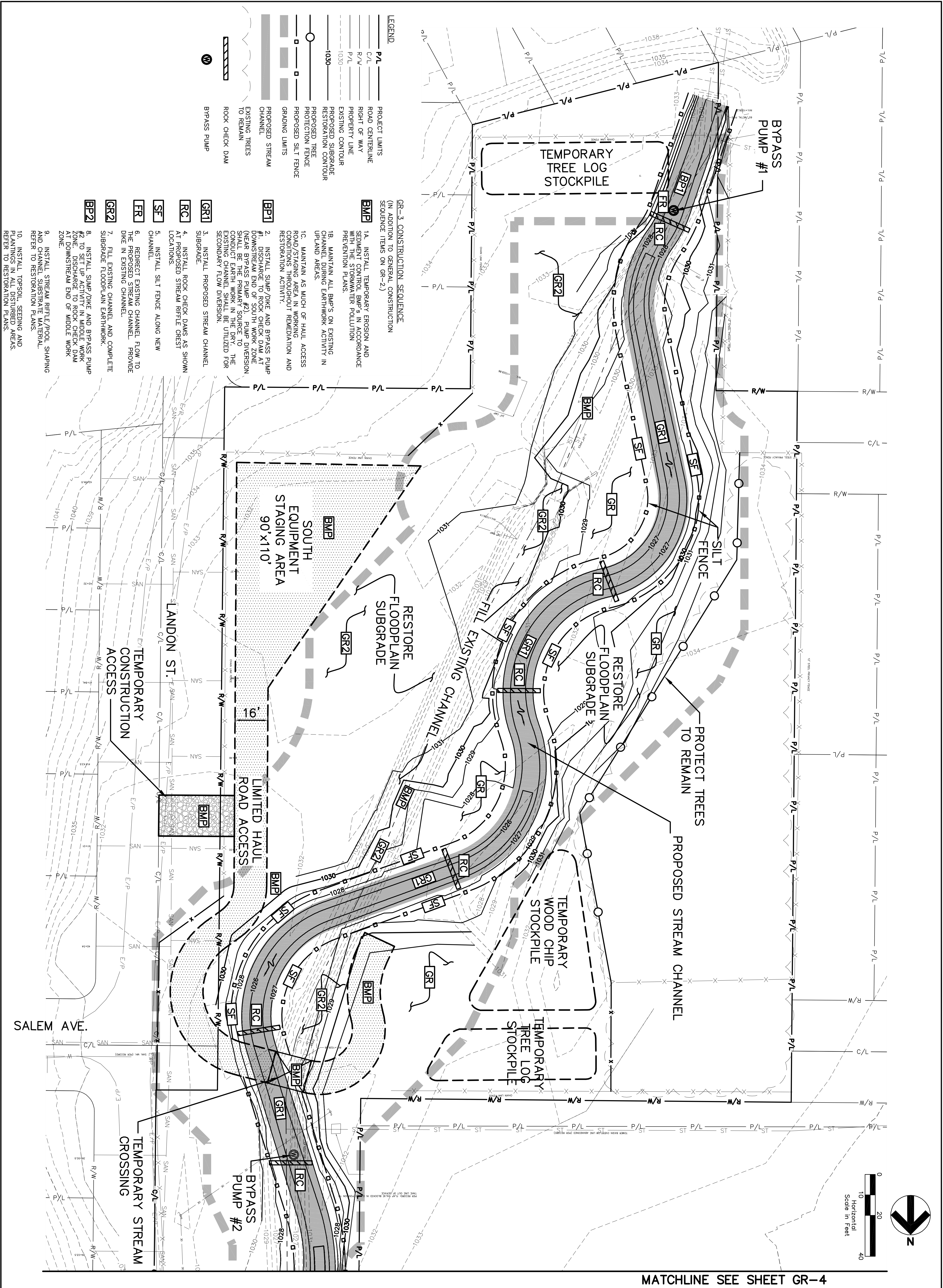
| REV. | DATE | DESCRIPTION |
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|      |      |             |

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**GPD ASSOCIATES**  
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 Akron, Ohio 44311  
 330-572-2100 • Fax 330-572-2101



**RiverWorks**  
 A Partnership for Stream & Wetland Restoration





**LEGEND**

- P/L PROJECT LIMITS
- C/L ROAD CENTERLINE
- R/W RIGHT OF WAY
- P/L PROPERTY LINE
- 1030 EXISTING CONTOUR
- 1030 PROPOSED SUBGRADE RESTORATION CONTOUR
- PROPOSED TREE PROTECTION FENCE
- PROPOSED SILT FENCE
- GRADING LIMITS
- PROPOSED STREAM CHANNEL
- EXISTING TREES TO REMAIN
- ROCK CHECK DAM
- BYPASS PUMP

**GR-3 CONSTRUCTION SEQUENCE**  
 (IN ADDITION TO GENERAL CONSTRUCTION SEQUENCE ITEMS ON GR-2)

**BMP**

- 1A. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL BMP'S IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLANS.
- 1B. MAINTAIN ALL BMP'S ON EXISTING CHANNEL DURING EARTHWORK ACTIVITY IN UPLAND AREAS.
- 1C. MAINTAIN AS MUCH OF HAUL ACCESS ROAD/STAGING AREA IN WORKING CONDITIONS THROUGHOUT REMEDIATION AND RESTORATION ACTIVITY.

**BP1**

2. INSTALL SUMP DIKE AND BYPASS PUMP #1, DISCHARGE TO ROCK CHECK DAM AT DOWNSTREAM END OF SOUTH WORK ZONE (NEAR BYPASS PUMP #2). PUMP DIVERSION SHALL BE THE PRIMARY SOURCE TO THE EXISTING CHANNEL IN THE DRYED OUT SECONDARY FLOW DIVERSION.

**GR1**

3. INSTALL PROPOSED STREAM CHANNEL SUBGRADE.

**RC**

4. INSTALL ROCK CHECK DAMS AS SHOWN AT PROPOSED STREAM RIFLE CREST LOCATIONS.

**SF**

5. INSTALL SILT FENCE ALONG NEW CHANNEL.

**FR**

6. REDIRECT EXISTING CHANNEL FLOW TO THE PROPOSED STREAM CHANNEL. PROVIDE DIKE IN EXISTING CHANNEL.

**GR2**

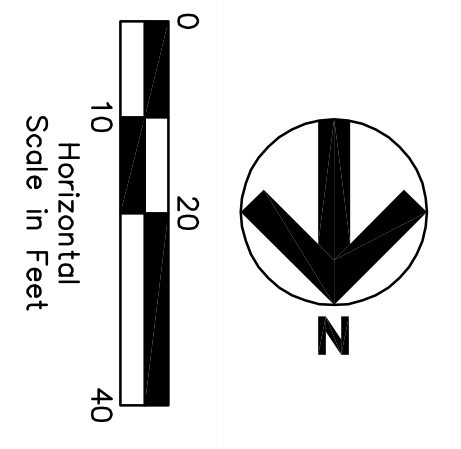
7. FILL EXISTING CHANNEL AND COMPLETE SUBGRADE FLOODPLAIN EARTHWORK.

**BP2**

8. INSTALL SUMP DIKE AND BYPASS PUMP #2 TO SET UP ACTIVITY IN MIDDLE WORK ZONE. DISCHARGE TO ROCK CHECK DAM AT DOWNSTREAM END OF MIDDLE WORK ZONE.

**9.** INSTALL STREAM RIFLE/POOL SHAPING AND CHANNEL SUBSTRATE MATERIAL.

**10.** INSTALL TOPSOIL, SEEDING AND PLANTINGS IN ALL DISTURBED AREAS. REFER TO RESTORATION PLANS.



MATCHLINE SEE SHEET GR-4

|      |          |            |         |
|------|----------|------------|---------|
| GR-3 | DESIGNED | JR         | 4-13-09 |
|      | DRAWN    | MJH        | 4-13-09 |
|      | CHECKED  | MLL        | 4-13-09 |
|      | DATE     |            |         |
|      | JOB NO.  | 2009213.00 |         |

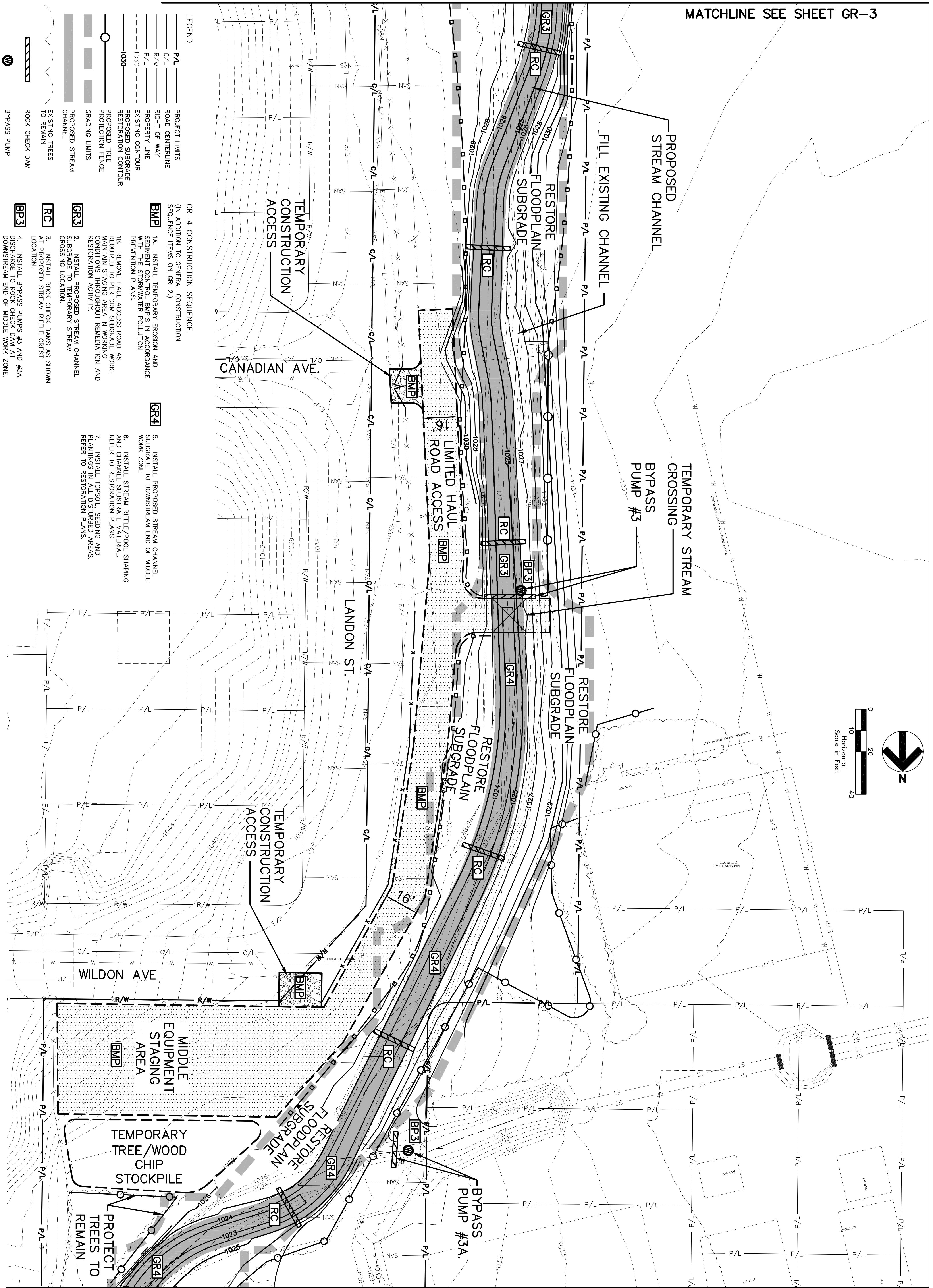
**HALEY'S DITCH  
 REMEDIATION AND RESTORATION  
 GRADING PLAN**

**SOUTH WORK ZONE  
 ACCESS STAGING & GRADING**

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

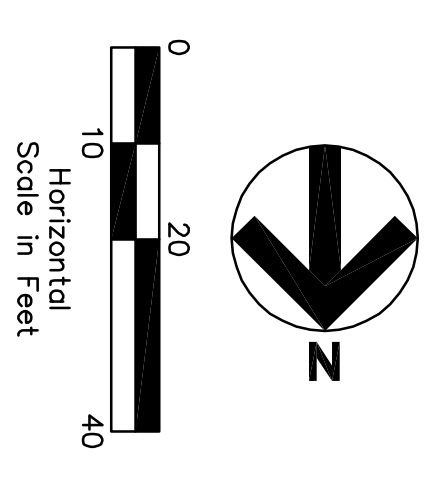
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 Akron, Ohio 44311  
 330-572-2100, Fax 330-572-2101





MATCHLINE SEE SHEET GR-3

MATCHLINE SEE SHEET GR-5



- LEGEND**
- P/L PROJECT LIMITS
  - C/L ROAD CENTERLINE
  - R/W RIGHT OF WAY
  - P/L PROPERTY LINE
  - 1030 EXISTING CONTOUR
  - PROPOSED SUBGRADE RESTORATION CONTOUR
  - PROPOSED TREE PROTECTION FENCE
  - GRADING LIMITS
  - PROPOSED STREAM CHANNEL
  - EXISTING TREES TO REMAIN
  - ROCK CHECK DAM
  - BYPASS PUMP
- GR-4 CONSTRUCTION SEQUENCE**  
 (IN ADDITION TO GENERAL CONSTRUCTION SEQUENCE ITEMS ON GR-2)
- BMP1** 1A. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL BMP'S IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.
  - 1B. REMOVE HAUL ACCESS ROAD AS MAINTAIN STAGING AREA IN WORKING CONDITIONS THROUGHOUT REMEDIATION AND RESTORATION ACTIVITY.
  - GR3** 2. INSTALL PROPOSED STREAM CHANNEL SUBGRADE TO TEMPORARY STREAM CROSSING LOCATION.
  - RC** 3. INSTALL ROCK CHECK DAMS AS SHOWN AT PROPOSED STREAM REFLE CREST LOCATION.
  - BP3** 4. INSTALL BYPASS PUMPS #3 AND #3A DISCHARGE TO ROCK CHECK DAM DOWNSTREAM END OF MIDDLE WORK ZONE.
  - GR4** 5. INSTALL PROPOSED STREAM CHANNEL SUBGRADE TO DOWNSTREAM END OF MIDDLE WORK ZONE.
  - 6. INSTALL STREAM RIFFLE/POOL SHAPING AND CHANNEL SUBSTRATE MATERIAL. REFER TO RESTORATION PLANS.
  - 7. INSTALL TOPSOIL, SEEDING AND PLANTINGS IN ALL DISTURBED AREAS. REFER TO RESTORATION PLANS.

|      |          |            |
|------|----------|------------|
| GR-4 | JOB NO.  | 2009213.00 |
|      | DESIGNED | DATE       |
|      | DRAWN    | DATE       |
|      | CHECKED  | DATE       |

**HALEY'S DITCH  
 REMEDIATION AND RESTORATION  
 GRADING PLAN**

**MIDDLE WORK ZONE  
 ACCESS STAGING & GRADING**

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

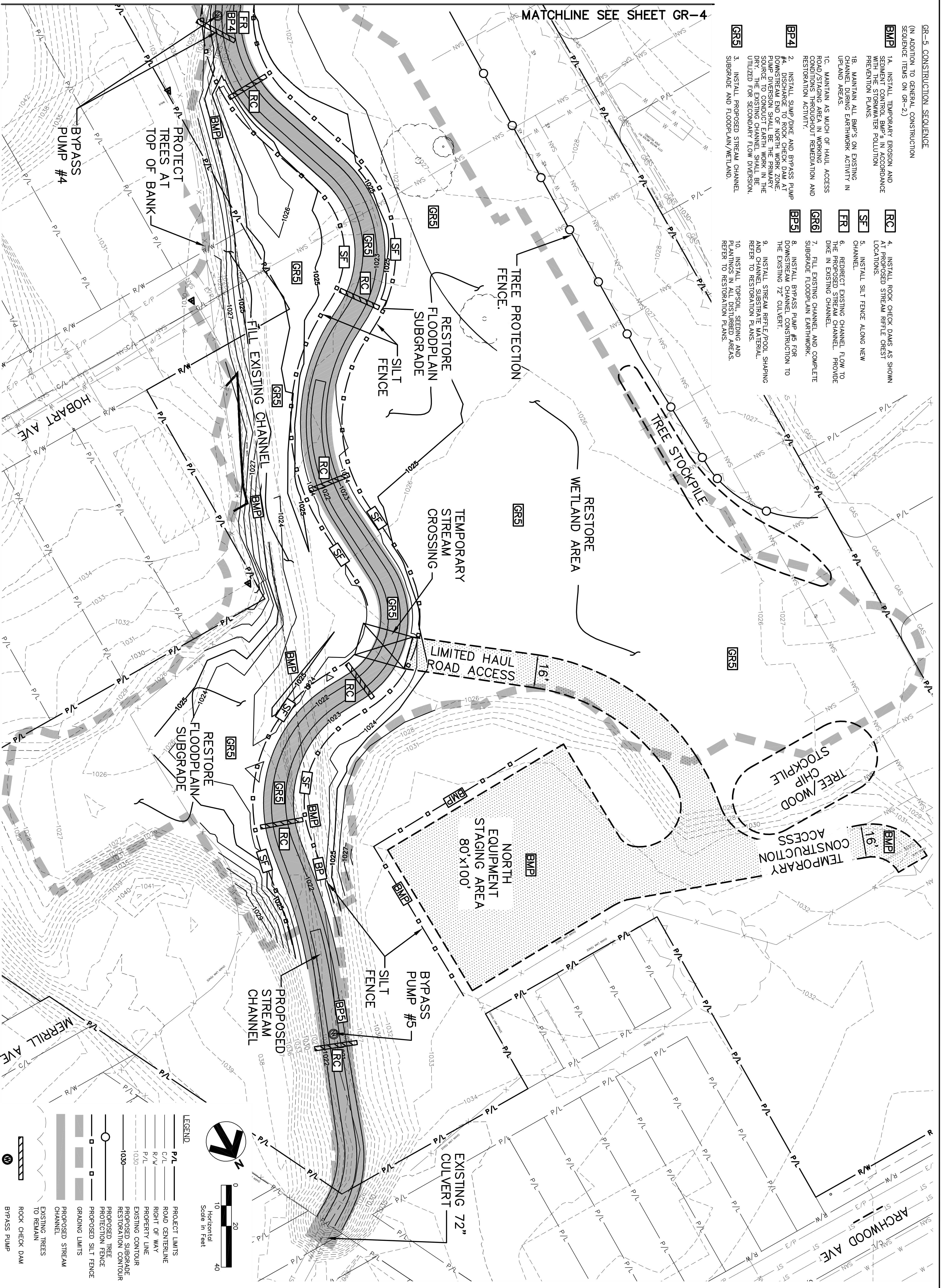
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GPD ASSOCIATES

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 Akron, Ohio 44311  
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A Partnership for Stream & Wetland Restoration

Technician: emanson



MATCHLINE SEE SHEET GR-4

- GR-5 CONSTRUCTION SEQUENCE**  
 (IN ADDITION TO GENERAL CONSTRUCTION SEQUENCE ITEMS ON GR-2)
- BMP** 1A. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL BMP'S IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLANS.
  - 1B. MAINTAIN ALL BMP'S ON EXISTING UPLAND AREAS.
  - 1C. MAINTAIN AS MUCH OF HAUL ACCESS ROAD/STAGING AREA IN WORKING CONDITIONS THROUGHOUT REMEDIATION AND RESTORATION ACTIVITY.
  - BP4** 2. INSTALL SUMP/RIFE AND BYPASS PUMP 4. DISCHARGE TO ROCK CHECK DAM AT DOWNSTREAM END OF NORTH WORK ZONE. PUMP DIVERSION SHALL BE THE PRIMARY SOURCE TO CONDUCT EARTH WORK IN THE DRY. THE EXISTING CHANNEL SHALL BE UTILIZED FOR SECONDARY FLOW DIVERSION.
  - GR5** 3. INSTALL PROPOSED STREAM CHANNEL SUBGRADE AND FLOODPLAIN/WETLAND.
  - RC** 4. INSTALL ROCK CHECK DAMS AS SHOWN AT PROPOSED STREAM RIFFLE CREST LOCATIONS.
  - SF** 5. INSTALL SILT FENCE ALONG NEW CHANNEL.
  - FR** 6. REDIRECT EXISTING CHANNEL FLOW TO DYE IN EXISTING CHANNEL.
  - GR6** 7. FILL EXISTING CHANNEL AND COMPLETE SUBGRADE FLOODPLAIN EARTHWORK.
  - BP5** 8. INSTALL BYPASS PUMP #5 FOR DOWNSTREAM CHANNEL CONSTRUCTION TO THE EXISTING 72" CULVERT.
  - 9. INSTALL STREAM RIFFLE/POOL SHAPING AND CHANNEL SUBSTRATE MATERIAL. REFER TO RESTORATION PLANS.
  - 10. INSTALL TOPSOIL, SEEDING AND PLANTINGS IN ALL DISTURBED AREAS. REFER TO RESTORATION PLANS.

**LEGEND**

- P/L PROJECT LIMITS
- C/L ROAD CENTERLINE
- R/W RIGHT OF WAY
- P/L PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED SUBGRADE
- PROPOSED RESTORATION CONTOUR
- PROPOSED TREE PROTECTION FENCE
- PROPOSED SILT FENCE
- PROPOSED LIMITS
- GRADING LIMITS
- PROPOSED STREAM CHANNEL
- EXISTING TREES TO REMAIN
- ROCK CHECK DAM
- BYPASS PUMP

0 10 20 40  
 Horizontal Scale in Feet

**GR-5**

JOB NO.  
**2009213.00**

|          |         |
|----------|---------|
| DESIGNED | DATE    |
| JR       | 4-13-09 |
| DRAWN    | DATE    |
| MLH      | 4-13-09 |
| CHECKED  | DATE    |
| MAIL     | 4-13-09 |

**HALEY'S DITCH  
 REMEDIATION AND RESTORATION  
 GRADING PLAN**

**NORTH WORK ZONE  
 ACCESS STAGING & GRADING**

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