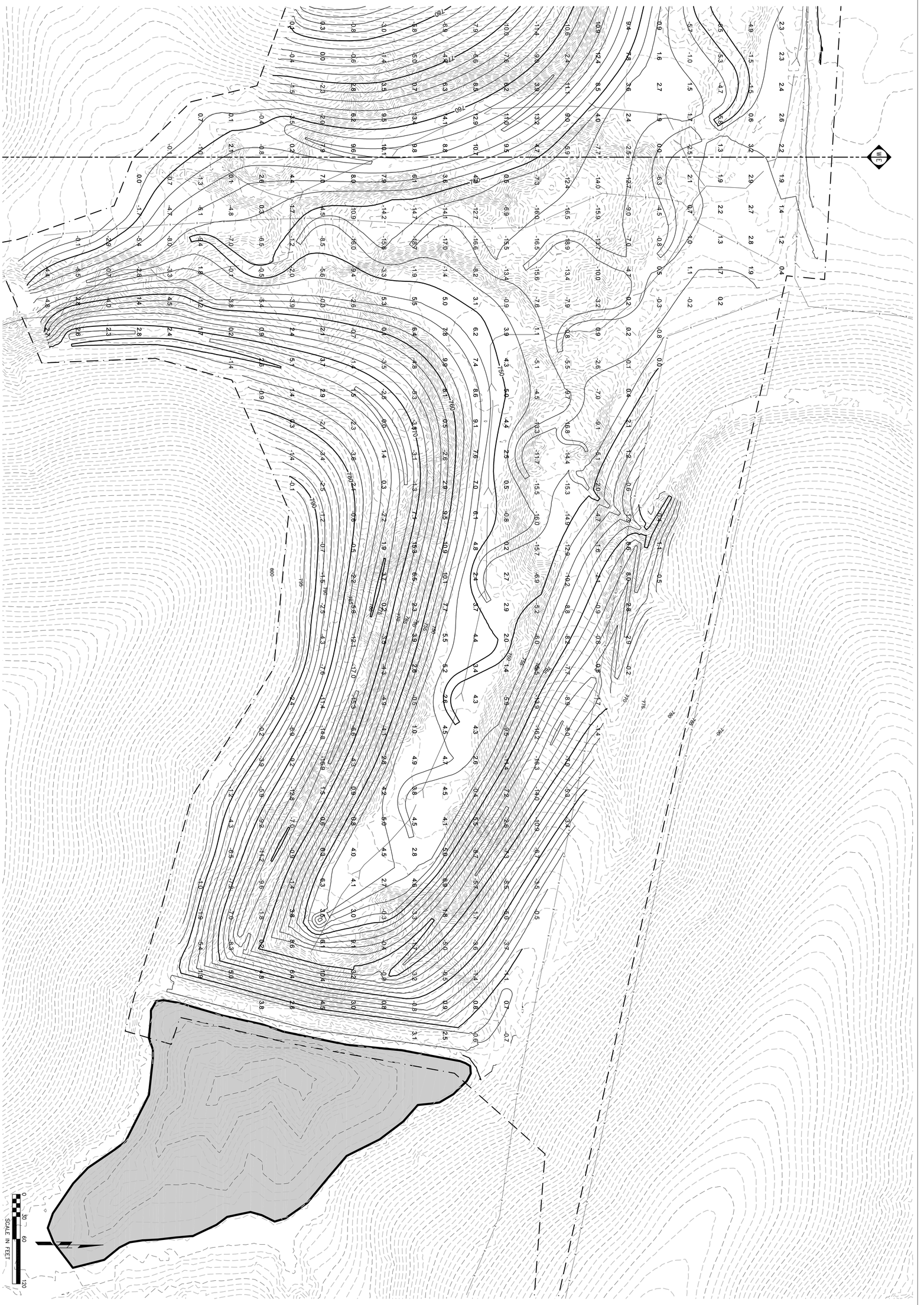

DESIGN BY: CRB	DRAWN BY: LTM	CHKD. BY: CRB	ISSUED: 10-18-2013	REVISED:	S-H PROJECT NUMBER: 412321-0

JUDGE
AML RECLAMATION PROJECT

CUT/FILL PLAN

IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

DIVISION OF SOIL CONSERVATION
IOWA DEPARTMENT OF AGRICULTURE
AND LAND STEWARDSHIP
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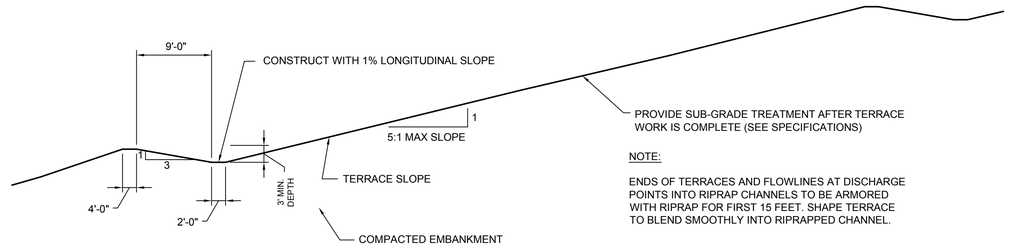
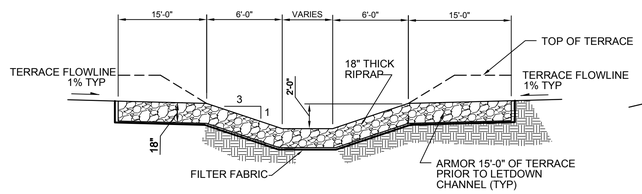
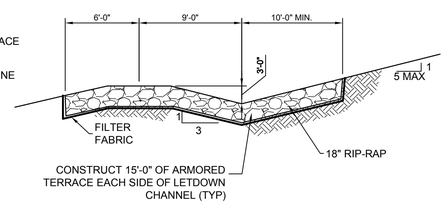


NOTE:

ENDS OF TERRACES AND FLOWLINES AT DISCHARGE POINTS INTO RIPRAP CHANNELS TO BE ARMORED WITH RIPRAP FOR FIRST 15 FEET. SHAPE TERRACE TO BLEND SMOOTHLY INTO RIPRAPPED CHANNEL.

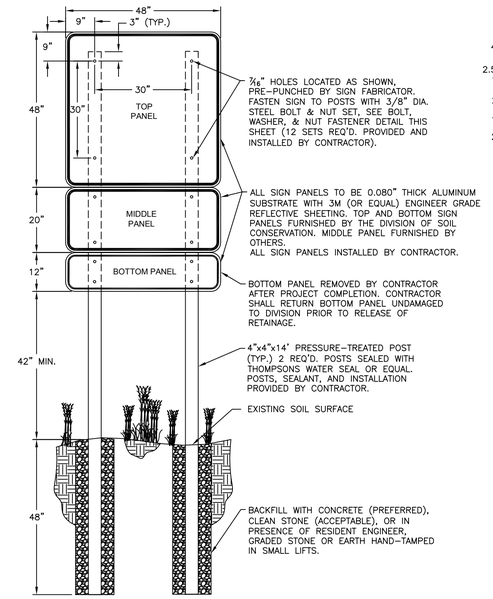
C TERRACE
NTS

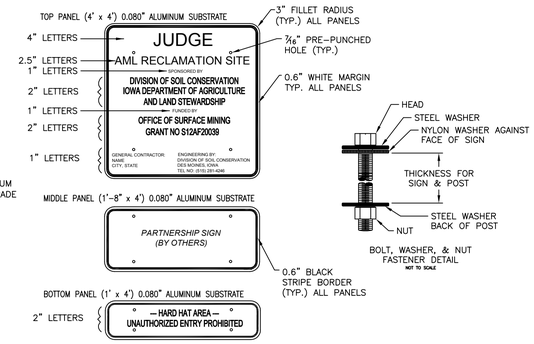




TERRACE SECTION

B TERRACE LETDOWN CHANNEL
NTS

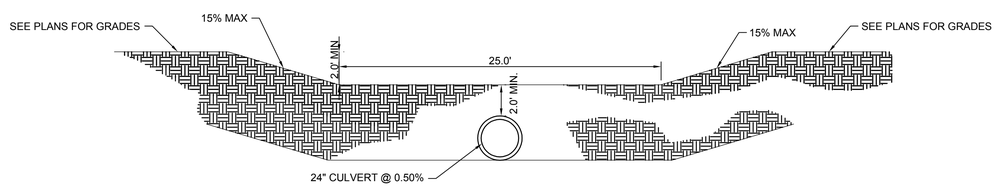




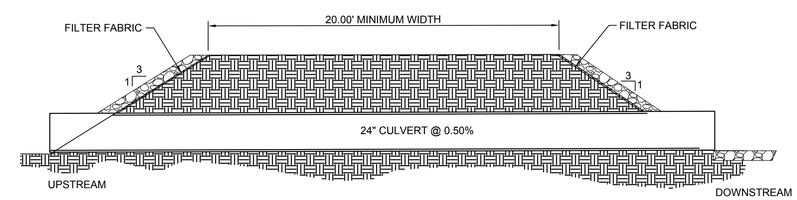
SIGNAGE NOTES:

1. DIVISION WILL FURNISH TOP AND BOTTOM SIGN PANELS. MIDDLE PANEL PROVIDED BY OTHERS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING POSTS, HARDWARE, AND INSTALLATION FOR ALL PANELS.
2. ALL EXPOSED WOOD SHALL BE SEALED WITH THOMPSONS WATER SEAL OR EQUAL MEETING ASTM D-4446-08.
3. ALL STEEL HARDWARE PIECES SHALL BE GALVANIZED OR RUST RESISTANT.
4. NYLON AND STEEL WASHERS SHALL BE USED AS SHOWN ON THE BOLT, WASHER, NUT FASTENER DETAIL ABOVE.
5. CLEAR UTILITIES WITH IOWA ONE-CALL (800) 292-8989 BEFORE EXCAVATING FOR POSTS.
6. SECURE ENGINEERS APPROVAL FOR SIGN LOCATION BEFORE INSTALLATION.
7. COSTS FOR POSTS, HARDWARE, WOOD SEALANT AND SIGN INSTALLATION SHALL BE INCIDENTAL TO MOBILIZATION.
8. CONTRACTOR SHALL INSTALL SIGN POSTS USING A PLYWOOD OR OTHER SUITABLE TEMPLATE TO MAINTAIN ACCURATE POST SPACING AND ALIGNMENT DURING BACKFILLING OF THE POST HOLES. TO AVOID BENDING OF THE SIGN PANELS, POSTS SHALL NOT BE INSTALLED OR BACKFILLED WITH SIGN PANELS ATTACHED.
9. ONE (1) PROJECT SIGN IS REQUIRED, LOCATED AS SHOWN ON PLANS.

D PROJECT SIGN
NTS



CHANNEL SECTION



CROSSING SECTION

A CHANNEL CROSSING
NTS

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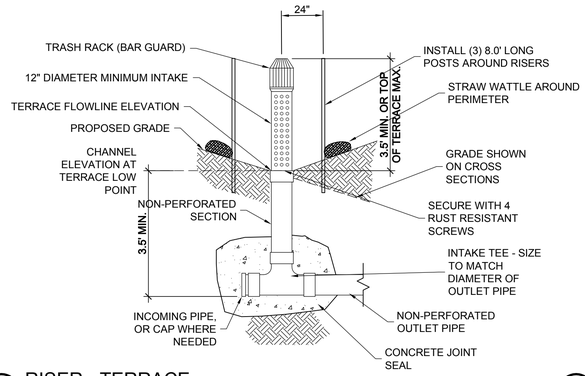
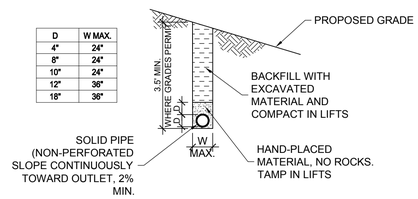
AML RECLAMATION PROJECT

TYPICAL DETAILS

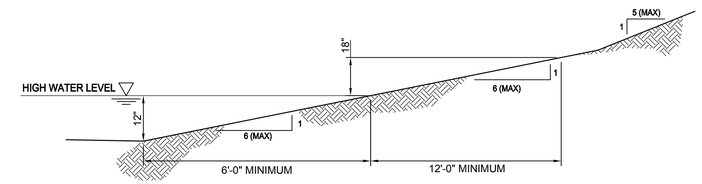


I RISER - TERRACE
NTS

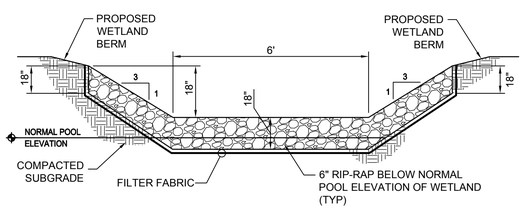


D	W MAX.
4"	24"
8"	24"
10"	24"
12"	36"
18"	36"

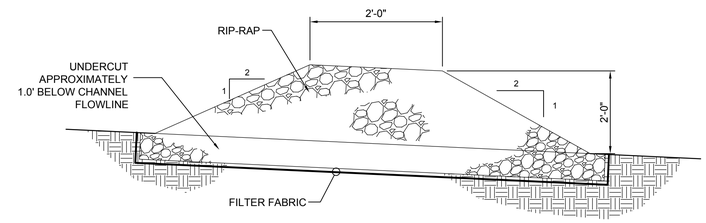
H PIPE - CROSS SECTION
NTS



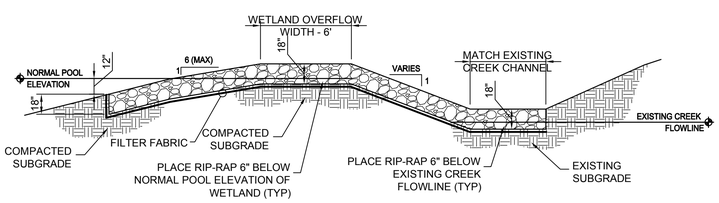
M TYPICAL WETLAND EDGE
NTS



G WETLAND OUTLET - CROSS SECTION
NTS



L CHECK DAM - PROFILE
NTS



F WETLAND OUTLET - PROFILE
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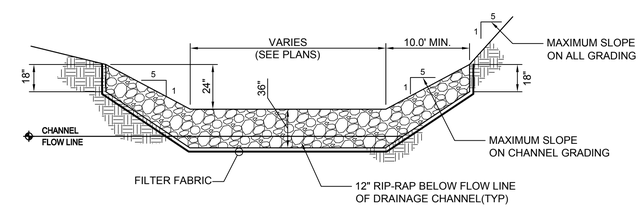
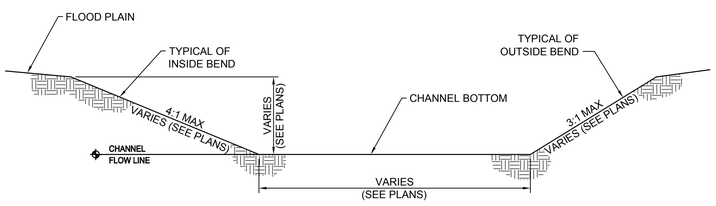
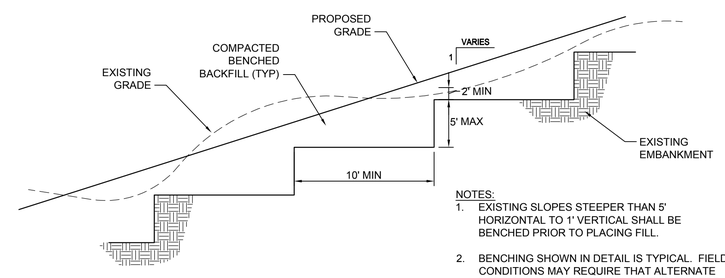


K CHECK DAM - CROSS SECTION
NTS



E CONSTRUCTED STREAM CHANNEL
NTS



NOTES:
1. EXISTING SLOPES STEEPER THAN 5' HORIZONTAL TO 1' VERTICAL SHALL BE BENCHED PRIOR TO PLACING FILL.
2. BENCHING SHOWN IN DETAIL IS TYPICAL. FIELD CONDITIONS MAY REQUIRE THAT ALTERNATE VERTICAL AND HORIZONTAL DIMENSIONS FOR BENCHES BE USED. NOTIFY THE ENGINEER PRIOR TO ANY BENCHING ACTIVITIES.

J TYPICAL BENCHING DETAIL
NTS

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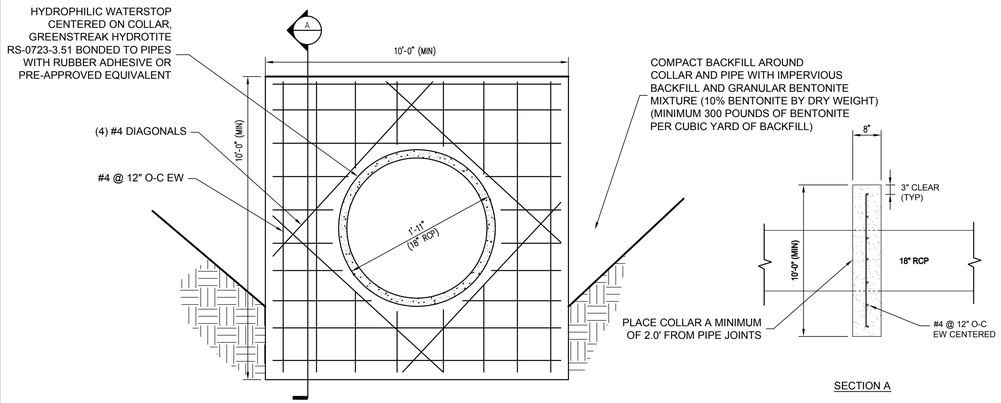
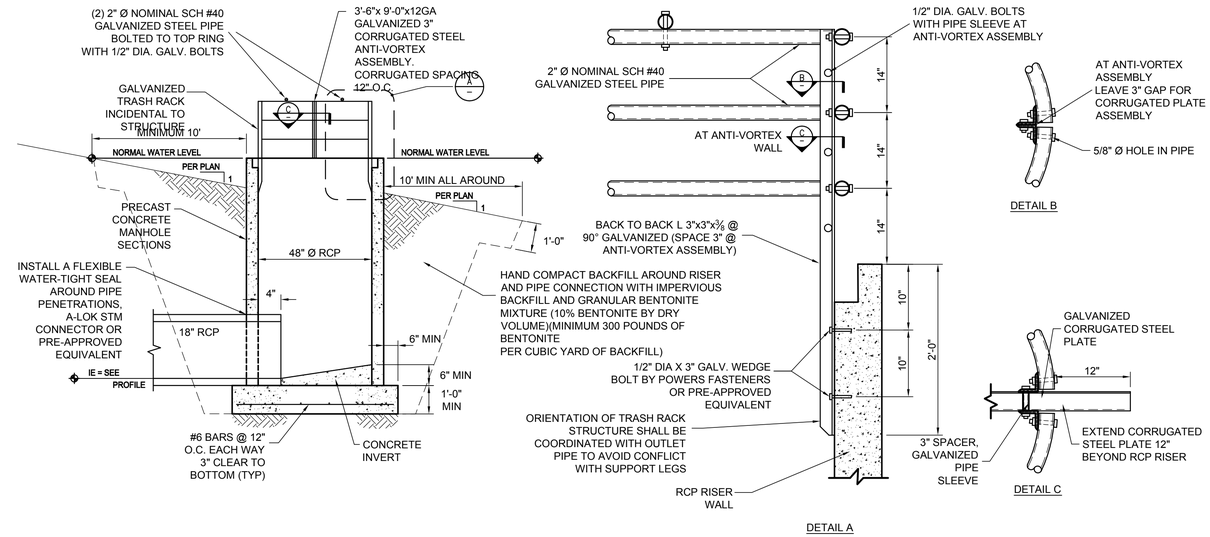
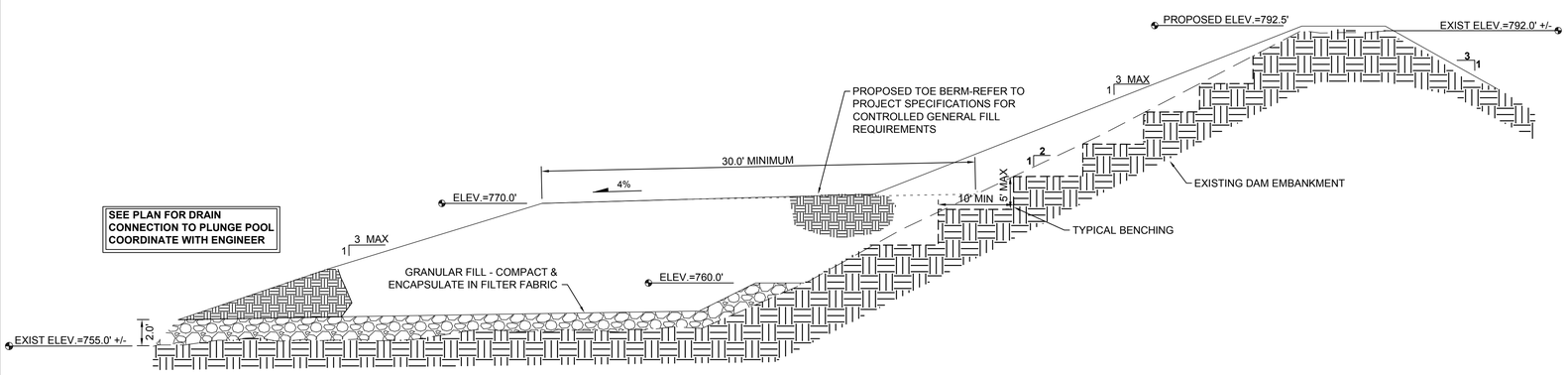


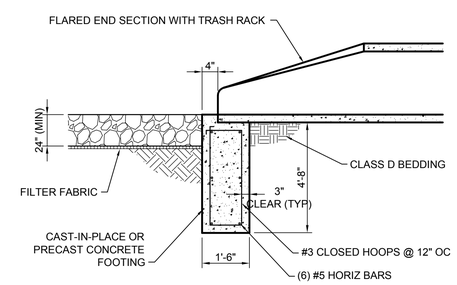
O ANTI-SEEPAGE COLLAR
NTS



Q RISER OUTLET STRUCTURE WITH TRASH RACK
NTS



N TOE BERM PROFILE
NTS



FLARED END SECTION FOOTING

P RCP FLARED END SECTION WITH FOOTING
NTS

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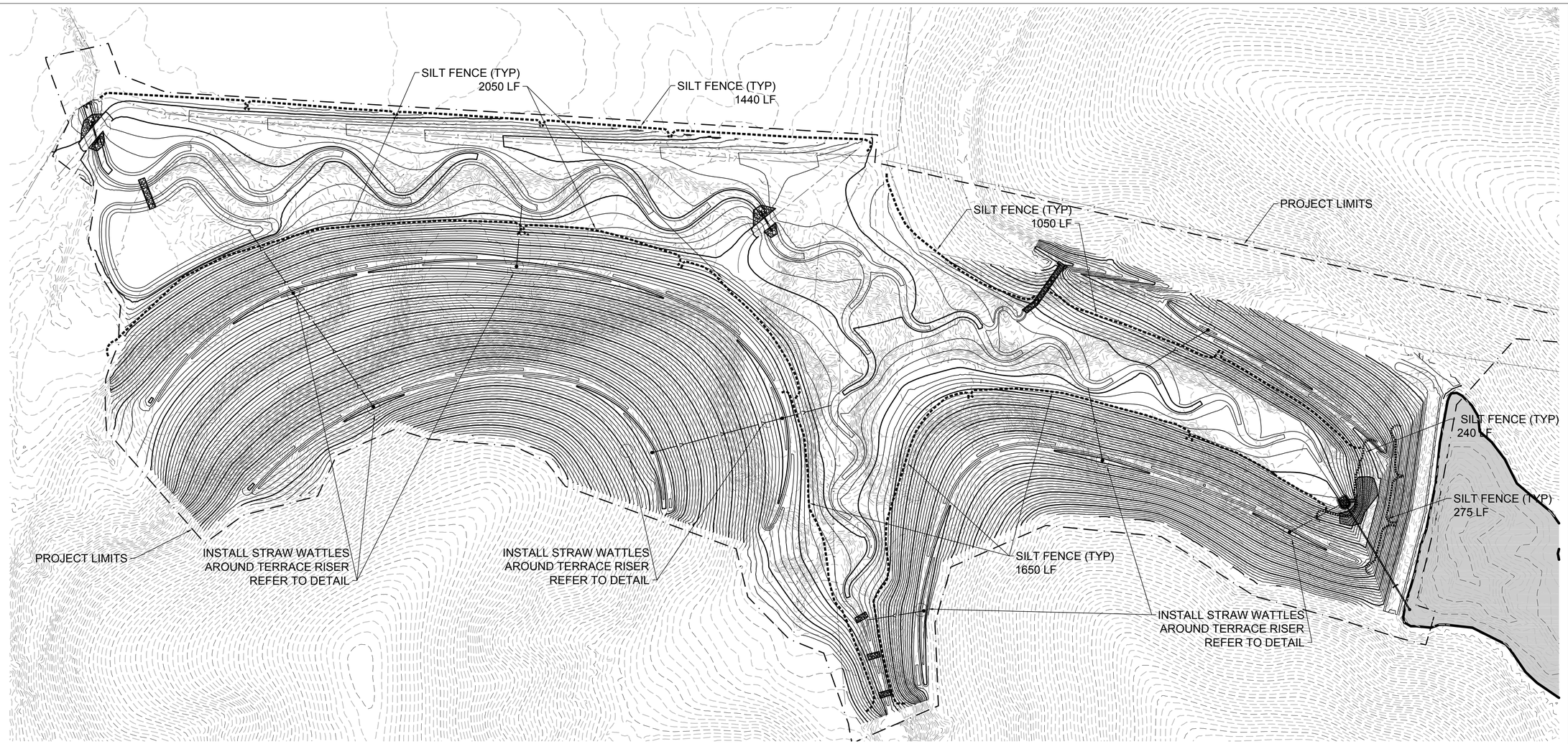

SWPPP NOTES:

1. IN THE EVENT OF CONFLICT BETWEEN THESE REQUIREMENTS AND WATER POLLUTION CONTROL LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR LOCAL AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS WILL APPLY.

2. CONSTRUCTION AND DEMOLITION WASTE MUST BE DISPOSED OF AT A PERMITTED SANITARY LANDFILL. NO CONSTRUCTION MATERIAL WASTES OR UNUSED MATERIALS SHALL BE BURNED, DUMPED, BURIED, OR DISCHARGED AT THE SITE.

3. SANITARY WASTE GENERATED ON SITE SHALL BE TREATED AND DISPOSED OF ACCORDING TO FEDERAL, STATE, AND LOCAL REQUIREMENTS.

4. ON-SITE GRAVEL DRIVE WILL SERVE AS VEHICLE TRACKING CONTROL. TRACKING ON THESE AREAS AS WELL AS ANY TRACKING THAT TAKES PLACE OFF-SITE SHALL BE REMOVED DAILY.

5. WATER SHALL BE APPLIED TO THE SURFACE OF DISTURBED AREAS AS NECESSARY TO CONTROL DUST.

6. ALL EROSION CONTROL MEASURES TO REMAIN AND BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

7. THE CONTRACTOR IS RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF ALL MEASURES IDENTIFIED IN THE SWPPP AND REQUIRED BY ALL LAWS AND REGULATIONS.

8. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE ON PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.
   1. EXCEPTIONS: SNOW OR FROZEN GROUND CONDITIONS

9. SEDIMENT WHICH ESCAPES THE SITE SHALL BE REMOVED AT A FREQUENCY NECESSARY TO MINIMIZE OFF-SITE IMPACTS.

10. CONTROL MEASURES SHALL BE PROPERLY:
    1. SELECTED
    2. INSTALLED
    3. MAINTAINED

11. MAINTENANCE SHALL BE PERFORMED PRIOR TO NEXT ANTICIPATED STORM EVENT.

12. REMOVE SEDIMENT FROM SEDIMENT TRAPS AND SILT FENCES WHEN DESIGN CAPACITY IS REDUCED BY 50% OR MORE.

13. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORM WATER SHALL BE PREVENTED FROM BECOMING A POLLUTANT SOURCE (E.G. SCREENING OUTFALLS, PICKUP DAILY, ETC.)

14. A COPY OF THE SWPPP SHALL BE RETAINED ON SITE. PLAN SHALL BE KEPT IN A CONSTRUCTION TRAILER OR OTHER WEATHER PROTECTED ENCLOSURE SUCH AS A MAILBOX. A SIGN/NOTICE SHALL BE POSTED BY CONTRACTOR CONTAINING A COPY OF THE COMPLETE NOI AND LOCATION OF SWPPP.

15. THE OPERATOR SHALL NOTIFY THE IOWA DNR, LOCAL POLICE DEPARTMENT, AND DIVISION OF HAZARDOUS CONDITIONS AS SOON AS POSSIBLE BUT NOT MORE THAN 6 HOURS AFTER ONSET OF HAZARDOUS CONDITIONS.
    1. HAZARDOUS CONDITIONS ARE DEFINED AS ANY SITUATION INVOLVING THE ACTUAL, IMMINENT, OR PROBABLE SPILLAGE, LEAKAGE, OR RELEASE OF A HAZARDOUS SUBSTANCE ON TO THE LAND, INTO A WATER OF THE STATE, OR INTO THE ATMOSPHERE, WHICH CREATES AN IMMEDIATE OR POTENTIAL DANGER TO THE PUBLIC HEALTH OR SAFETY OR TO THE ENVIRONMENT.

16. INSPECTIONS SHALL BE PERFORMED ONCE EVERY 7 DAYS.

17. INSPECTIONS SHALL BE CONDUCTED BY QUALIFIED PERSONNEL AND COORDINATED BY THE CONTRACTOR.

18. INSPECTIONS SHALL INCLUDE:
    1. AREAS DISTURBED BY CONSTRUCTION ACTIVITY OR USED FOR STORAGE OF MATERIALS WHICH ARE EXPOSED TO PRECIPITATION SHALL BE OBSERVED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM.
    2. POLLUTION CONTROL MEASURES SHALL BE OBSERVED TO ENSURE PROPER OPERATION.
    3. ACCESSIBLE DRAINAGE LOCATIONS SHALL BE OBSERVED TO DETERMINE EFFECTIVENESS IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.
    4. LOCATIONS WHERE VEHICLES ENTER/EXIT THE SITE SHALL BE OBSERVED FOR EVIDENCE OF OFF-SITE TRACKING.

19. SITE INSPECTION REPORT SHALL INCLUDE:
    1. DATE
    2. NAME AND QUALIFICATIONS OF INSPECTOR
    3. WEATHER INFORMATION
    4. LOCATION OF SEDIMENT/POLLUTANT DISCHARGE
    5. BMP(s) REQUIRING MAINTENANCE
    6. BMP(s) THAT HAVE FAILED
    7. BMP(s) THAT ARE NEEDED
    8. CORRECTIVE ACTION REQUIRED INCLUDING CHANGES/UPDATES TO SWPPP AND SCHEDULE/DATES

20. INSPECTION REPORTS SHALL BE PROPERLY SIGNED/CERTIFIED

21. SWPPP SHALL BE UPDATED/MODIFIED TO REFLECT CHANGES AT THE SITE EFFECTING DISCHARGE, OR WHERE INSPECTIONS IDENTIFY SWPPP/BMP(s) AS INEFFECTIVE, UPDATES TO SWPPP REGARDING MODIFICATIONS TO BMP(s) SHALL BE MADE WITH 7 DAYS OF SUCH INSPECTION.

22. COPIES OF INSPECTION REPORTS SHALL BE RETAINED AS PART OF THE SWPPP FOR 3 YEARS FROM DATE PERMIT COVERAGE TERMINATES.

0 50 100 200
SCALE IN FEET

LEGEND:

x 740.0	EXISTING SPOT ELEVATION
	CONSTRUCTION LIMITS
740	EXISTING CONTOUR
	EXISTING FENCE
	DRAINAGE DITCH OR STREAM
	EXISTING TREE LINE
	EXISTING TREES
15+00	GRID STATION
5+00 LT	GRID OFFSET
740	CONTOUR
	CONSTRUCTION LIMITS
	SILT FENCE (S)
	TERRACE (T)
	FENCE
	DRAINAGE DITCH OR STREAM
	DRAINAGE PIPE
	RIPRAP (R)
	GRAVEL TRACKING CONTROL (G)
POND	POND AT NORMAL WATER LEVEL

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