Indiana Department of Environmental Management
Office of Water Quality
Wetlands Section

Publication Date:
August 23, 2010

Closing Date:
September 13, 2010

PUBLIC NOTICE

IDEM ID Number:
2010-333-46-EMP-A

Corps of Engineers ID Number:
LRC-2010-487-IN

To all interested parties:

This letter shall serve as a formal notice of the receipt of an application for **Section 401 Water Quality Certification** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for water quality certification under Section 401 of the Clean Water Act (33 U.S.C. § 1341) and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana's water quality standards as set forth at 327 IAC 2.

1. Applicant: Edward and Angeline Kmiecik
309 Northbrook Dr.
Michigan City, IN 46360

2. Agent: Mr. David McCormick
McCormick Engineering, LLC
401 E. Colfax Ave., Ste. 209
South Bend, IN 46617

3. Project location: NW 1/4 Section 13, Township 38 North, Range 4 West, Michigan City East Quadrangle
Project is located at 309 Northbrook Drive, in Michigan City, LaPorte County

4. Affected waterbody: Kimball Ditch

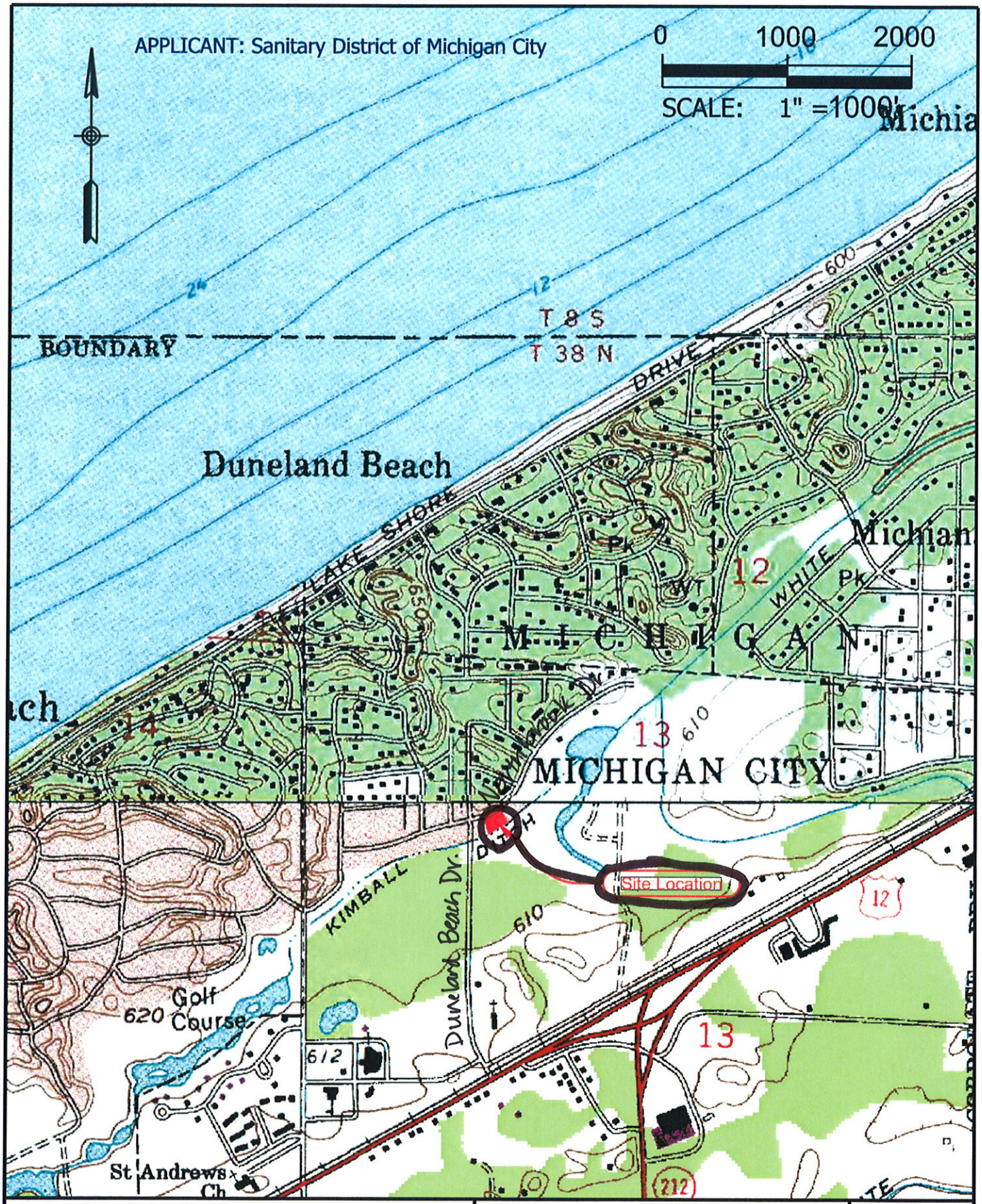
5. Project Description: The applicant proposes to stabilize 110' of the north bank of Kimball Ditch, a salmonid tributary to Lake Michigan, by installing vegetated coir fiber logs two feet streamward from the existing toe of slope. The area behind the coir fiber rolls will be reshaped, sloped, and revegetated. An additional 15' of stream bank at the downstream end of the project is proposed to be stabilized with geoweb cells infilled with #2 stone. The purpose of the project is to stabilize the bank behind the residence from further erosion.

Comment period: Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the water quality certification review process.

Public Hearing: Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

Questions? Additional information may be obtained from Ms. Liz Pelloso, Project Manager, at 317-233-2482.
Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM's final decision. Written comments and inquiries may be forwarded to -

Indiana Department of Environmental Management
100 North Senate Avenue
MC65-42 WQS IGCN 1255
Indianapolis, Indiana 46204-2251
FAX: 317/232-8406



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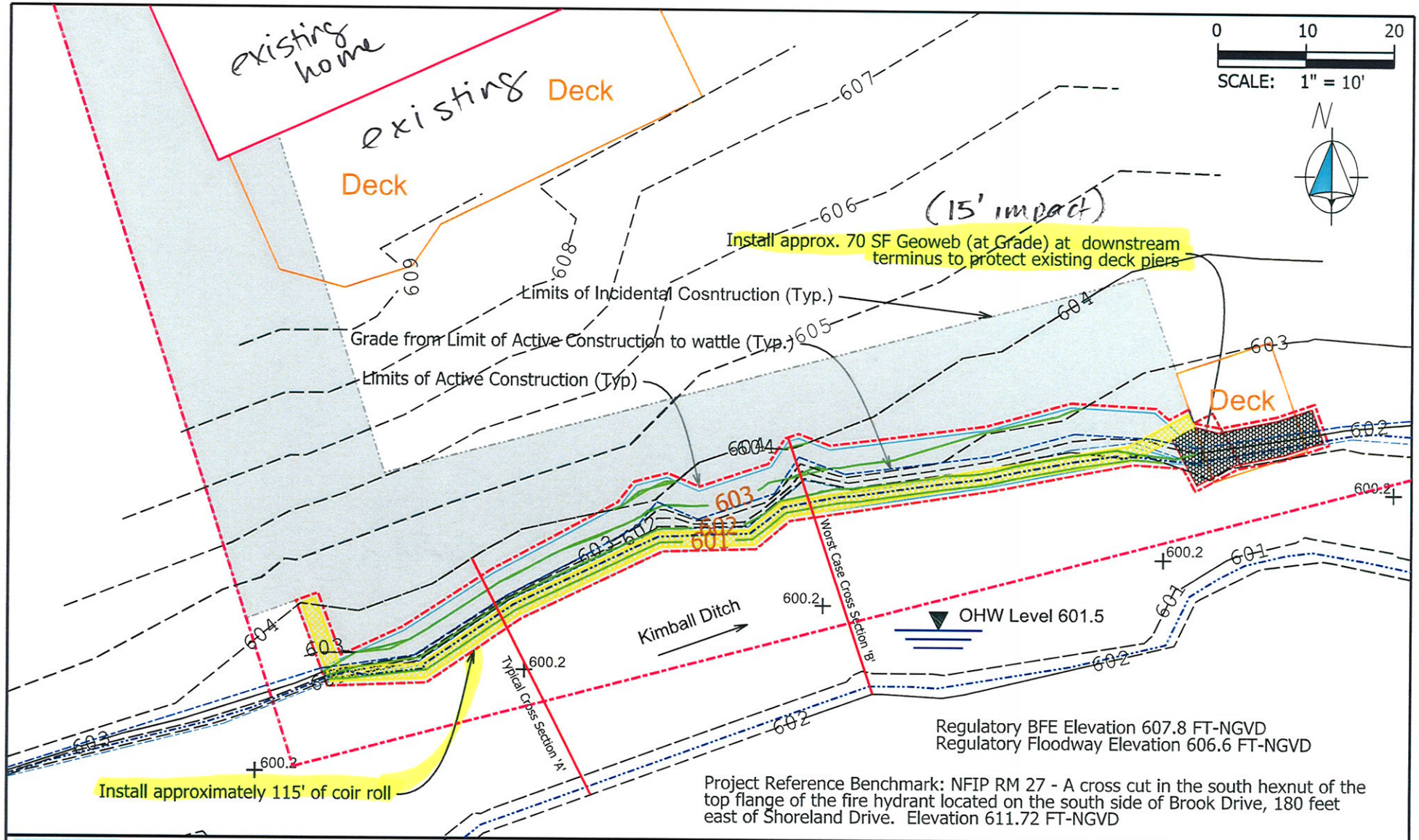
Project
Kimball Ditch Bank Protection Project

Sheet Title
Site Location Map

Date 6/16/2010

Sheet No. 1



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Applicant **Sanitary District of Michigan City**
Wastewater Treatment Facility
1100 E. 8th Street
Michigan City, IN 46360
P: 219-874-7799 F: 219-898-3167

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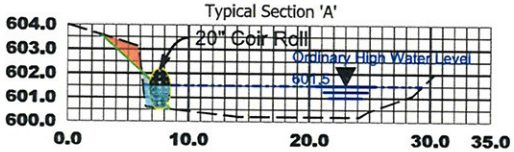
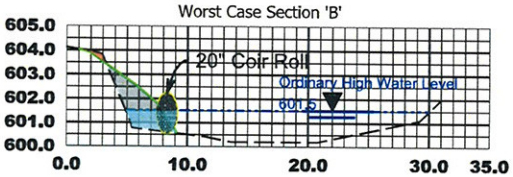
Sheet Title: PROPOSED GRADING PLAN

Sheet No. 1





Typical Section Legend	
— —	Exist Ground
———	Wattle Grading

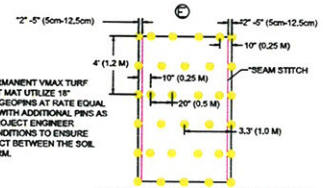
Section	Area Cut	Total Area Fill	Area Fill below OHW
A	1.5 SF	3.0 SF	1.9 SF
B	0.25 SF	7.4 SF	3.2 SF

Note: The biodegradeable coir log represents an area of 2.18 SF/FT in the above calculations. Of this total area, 1.4 SF and 1.3 SF are below the OHWL for sections A and B, respectively

Typical Sections

STAPLE PATTERN GUIDE

6.5' and 6.67' roll widths only

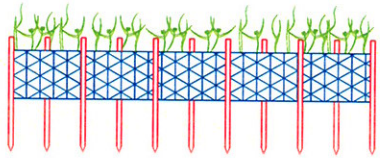


NOTE: WHEN USING PERMANENT VMAX TURF REINFORCEMENT MAT UTILIZE 18" GEOPINS OR 12" GEOPINS AT RATE EQUAL TO PATTERN "E" WITH ADDITIONAL PINS AS REQUIRED BY PROJECT ENGINEER AND/OR SITE CONDITIONS TO ENSURE INTIMATE CONTACT BETWEEN THE SOIL SURFACE AND TRM.

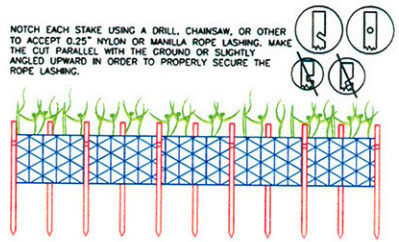
3.75 STAPLES PER SQ. YD. (4.5 STAPLES PER SQ. M) FOR BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN DOT SYSTEM THROUGH EACH OF THE YELLOW COLORED DOTS.

*LOCATION OF SEAM STITCH WILL VARY DEPENDING OF NORTH AMERICAN GREEN PRODUCT TYPE.

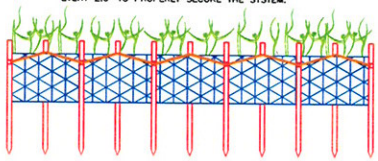
STEP 1: STAGGER 36" TO 48" HARDWOOD STAKES AT 2' O.C. ON EACH SIDE OF THE COIR LOG, DRIVING THE STAKE INTO THE GROUND UNTIL THE TOP OF THE STAKE IS NEARLY EVEN WITH THE COIR LOG OR UNTIL REFUSAL.



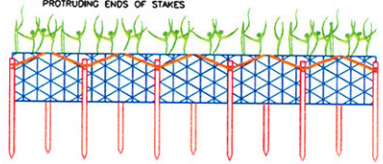
STEP 2: NOTCH EACH STAKE USING A DRILL, CHAINSAW, OR OTHER TO ACCEPT 0.25" NYLON OR MANILLA ROPE LASHING. MAKE THE CUT PARALLEL WITH THE GROUND OR SLIGHTLY ANGLED UPWARD IN ORDER TO PROPERLY SECURE THE ROPE LASHING.

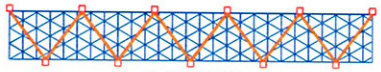


STEP 3: USE 0.25" NYLON OR MANILLA ROPE AS SPECIFIED TO LASH STAKES AND LOGS TOGETHER USING THE NOTCHES CUT. TIE A KNOT IN THE ROPE LASHING EVERY 2.0' TO PROPERLY SECURE THE SYSTEM.



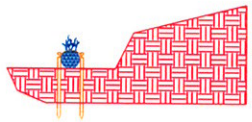
STEP 4: DRIVE HARDWOOD STAKES INTO SOIL AS TO MAKE THE ROPE TAUGHT. STAKES SHOULD REST EVEN WITH TO ONE FOURTH THE WAY DOWN THE COIR LOG IN THEIR FINAL POSITION. CUT EXCESS PROTRUDING ENDS OF STAKES



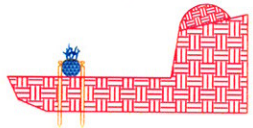


PLAN VIEW

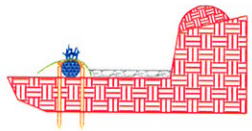
Wattle Construction Sequence



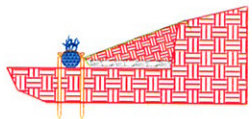
STEP 1:
COIR LOGS ARE PLACED AND SECURED APPROXIMATELY 2' OFF EXISTING BANK.



STEP 2:
THREE FEET OF BANK IS EXCAVATED AND STOCKPILED ON TOP OF THE BANK FOR LATER USE.



STEP 3:
NORTH AMERICAN GREEN SC-250 IS PLACED 12" UNDER 8" OF #2 STONE BLENDED WITH SITE SOILS



STEP 4:
STOCKPILED SOILS ARE GRADED AND COMPACTED TO 2 O'CLOCK POSITION ON VEGETATED COIR LOG. SOILS ARE SEEDED AND NORTH AMERICAN GREEN SC-250 IS PULLED OVER TOP OF SLOPE AND STAPLED PER STAPLE PATTERN "E"

Coir Log Planting List

Carex lurida	Lurid sedge
c. comosa	Spreading Oval Sedge
c. emoryi	Riverbank Tussock Sedge
c. hystercina	Porcupine sedge
Iris versicolor	Blue Flag Iris
Juncus effusus	Soft Rush

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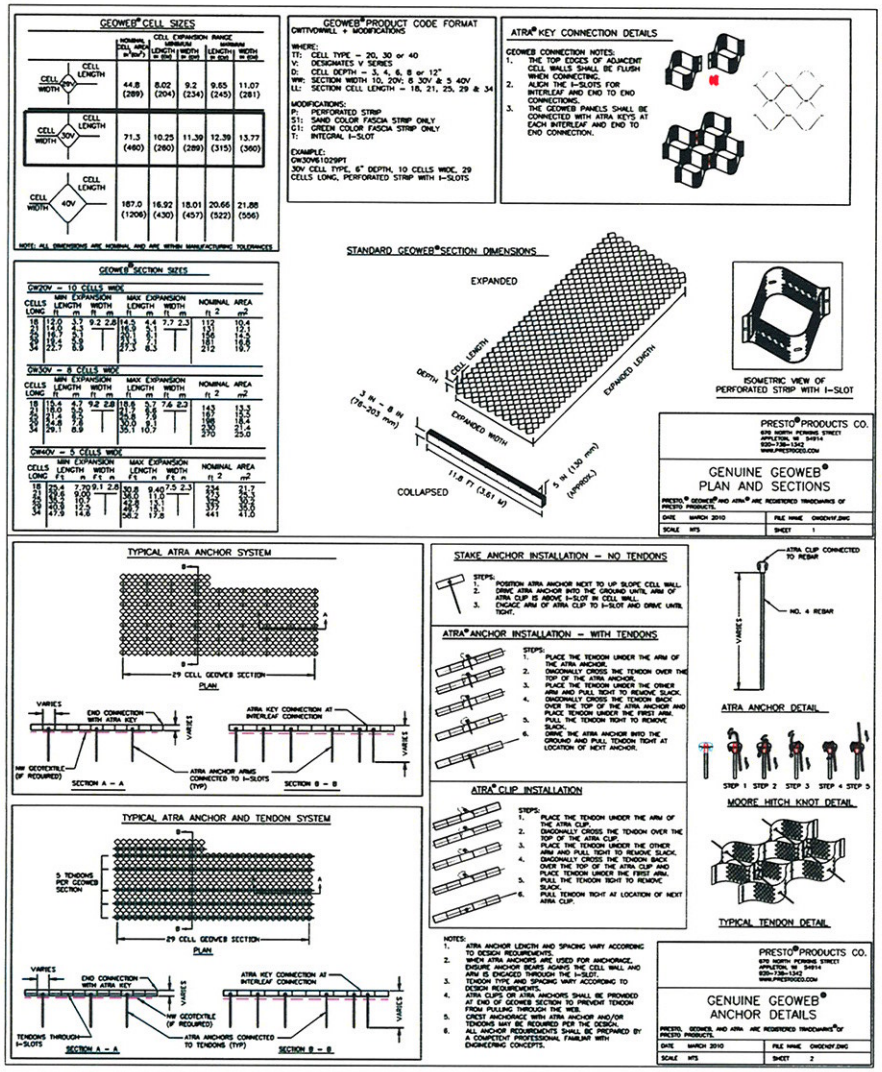
Sheet Title: TYPICAL SECTIONS & DETAILS

Sheet No. 2



NOTE:

1. See Plan Sheet 1 for location of geoweb within project
2. Cell height shall be 6" (Designation GW30V6)
3. Cell infill shall be INDOT No. 2 (1-2") aggregate

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Sheet Title: GEOWEB DETAILS

Sheet No. 3