CONSTRUCTION and MITIGATION PLAN

Rockdale-West Middleton Project – Segment B

American Transmission Company, LLC (ATC) was granted a Ch. 30.025 utility permit by the Wisconsin Department of Natural Resources (WDNR) for work in and adjacent to wetlands and waterways for the Rockdale-West Middleton project (Permit #IP-SC-2009-13-Nxxxxx). This permit requires that ATC prepare a Construction and Mitigation Plan (CMP) for work in wetlands and waterways for WDNR approval prior to beginning work in these features (conditions #8 and 10). ATC has prepared this CMP for Segment B which outlines various construction methods and procedures which will be followed to minimize impacts to these features. The components of this CMP follow those outlined in General Condition #10 of the WDNR utility permit. Separate CMPs for Segments A, H, O and the Yahara River wetlands will be prepared and submitted for WDNR approval. Segment specific agricultural requirements are also included in section J. of this document at the request of the Public Service Commission of Wisconsin.

A. Environmental Access Plan

An Environmental Access Plan (EAP) for Segment B is provided in Segment B, Appendix A. This EAP shows the location of wetlands and waterways, pole locations, temporary clear span bridge (TCSB) crossings, construction access and other pertinent information. The wetland boundaries within the ROW are the same boundaries included in the Joint Application (Wetland Delineation Report dated 9/26/07, Natural Resources Consulting), which were approved by the US Army Corps of Engineers. In addition, one area that was evaluated from road ROW as part of the 9/26/07 wetland delineation was recently re-evaluated in the field based on WDNR concerns. That area was determined to be wetland and is identified as B(65)-W10a on EAP page B-16.

Wetlands outside of the ROW were evaluated primarily based on Wisconsin Wetland Inventory data and aerial photo review.

The following eleven structures will be located in wetlands along Segment B which is substantially less than the approved amount in the Utility Permit (16 structures were approved). This reduction is due to re-spanning of poles during final design.

o 6 poles (#122099-122104) in wetland H(47)-W2 (EAP pages B-1 through B-3),
o 1 pole (#122123) in wetland B(65)-W5 (EAP pages B-6, B-7),
o 1 pole (#122132) in wetland B(65)-W7 (EAP pageB-9),
o 2 poles (#122157 and #122158) in wetland B(65)-W10 (EAP pageB-15), and
o 1 poles (#122159) in wetland B(65)-W10a (EAP page B-16).

Note: although wetland B(65)-W10a was not identified as wetland in the Joint Application, the overall permanent wetland impact for the segment has been reduced. The structure located in wetland B(65)-W10a will result in 0.0016 acres of permanent fill.

Up to six TCSBs will be required along Segment B (Segment B, Appendix A) which is less than the approved amount in the Utility Permit for this segment (eight TCSBs were approved). In the Utility Permit, two crossings of waterway B(120)-R1 (EAP page B-2) were approved for TCSBs; however, with the approval of MRA-2 these crossings will no longer be required. An additional waterway was recently identified (B120-R2) (EAP page B-2) which will require a TCSB and therefore an amendment to the Utility permit. This waterway is a drainage feature associated with a culvert under I90/I39.

Approximately 5.2 acres of forested wetland clearing will be required along Segment B. The amount of clearing along this segment is about 1.8 acres greater than identified in the Joint Application, which is due primarily to differences in land cover interpretation from 2006 to 2011, and also an additional 0.18 acres in the recently identified wetland B(65)-W10a (EAP page B-16). As discussed in the *Wooded Wetland Management Plan* section, a 50-foot wide low growth vegetative buffer will be maintained along these waterways, where it currently exists.

ATC's construction access through wetlands along Segment B (as shown on the EAP) is generally the same as presented on the *Environmental Features and Access Plan* in the Joint Application; however ATC expects to obtain access from private landowners to avoid:

- Wetland B65-W3 by accessing around this feature to the south (landowner agreement is verbal as of 6/16/11, will be confirmed in writing prior to use (as shown on EAP page B-4); and
- Wetland B120-W1 by accessing off County Road AB (as shown on EAP page B-5).

The configuration of other wetlands along this segment does not allow ATC to feasibly reduce the extent of construction access in these wetlands. (Note: *While most construction equipment will be limited in wetlands where access is not shown, small-track vehicles or all terrain vehicles <u>may</u> be used to pull the conductor through these portions of wetlands*).

Construction matting may be used to facilitate access in wetlands. The table below identifies a conservative estimate of matting quantities in each wetland.

Wetland Identifier	Approximate square footage of mats
H(47)-W2	150,820
B(65)-W1	600
B(65)-W2	600
B(65)-W3	7,600
B(65)-W4	16,400
B(120)-W1	4,600

B(65)-W5	38,000
B(65)-W6	600
B(65)-W7	27,400
B(65)-W9	4,600
B(65)-W10	44,400
B(65)-W10a	10,400
B(65)-W11	2,400
B(65)-W12	22,000

Additional measures to minimize wetland and waterway impacts along Segment B are outlined in other sections of this CMP (e.g. *Invasive Species Management Plan*, *Final Wetland Restoration and Revegetation Plan*, etc.) and will be provided in the Erosion Control Plan for this segment.

B. Photographs of Pre-Construction Site Conditions (Wetlands and Waterways)

Pre-construction photographs of wetlands along the Segment B ROW, and waterways where TCSBs are required, are provided in Segment B, Appendix B.

C. Waterway Crossings

Up to six TCSB crossings will be required along Segment B at locations shown on the EAP. As discussed above, ATC is requesting an amendment to the Utility Permit for an additional TCSB crossing over waterway B120-R2 (EAP page B-2). Final plan and cross-sectional view drawings for each TCSB crossing are provided in Segment B, Appendix C. In addition, General Condition #60 of the Utility Permit indicates the TCSBs should incorporate measures to minimize the amount of soil entering the waterway. A drawing showing typical debris containment to be used for all TCSBs is provided in Segment B, Appendix C.

<u>Clearance Waiver</u>

General Condition #56 of the WDNR Utility Permit indicates: *All bridges across navigable waterways shall either maintain a clearance of not less than 5 feet, or comply with requirements of s. NR 320.04, Wis. Admin. Code*. Wis. Admin. Code Chapter NR 320.04(3) indicates the department may allow less than 5 feet of navigation clearance when all of the following apply:

- The waterway is known to have little or no navigation or snowmobile use;
- The waterway is not anticipated to have navigational use by other than lightweight craft;

- The owner provides a portage over or around the bridge or culvert; and
- The reduced clearance would not be detrimental to the public interest.

ATC would allow a portage over or around a bridge if necessary; however given the stream dimensions and/or location of these six crossings, it is unlikely these waterways are utilized by watercraft. ATC believes the other conditions specified in Wis. Admin. Code Chapter NR 320.04(3) are met at each waterway crossing and therefore, a five-foot clearance is not required at any of the six TCSB locations. ATC will place warning signs upstream and/or downstream of any bridge unless the bridge is adjacent to a culvert that would not be passable by a floating vessel or snowmobile.

Fishery Waiver

General Condition #54 of the WDNR utility permit indicates that: *All bridges must be placed and removed in compliance with timing restrictions, unless authorized by the local DNR fisheries biologist….. On all waterways that are not trout streams, placement and removal of the bridges is prohibited March 15 through May 15, annually*. None of the waterways along Segment B are trout streams. ATC requested and received a waiver of this timing restriction from Kurt Welke, DNR Fisheries Manager for each of these six TCSBs (Segment B, Appendix D).

D. Endangered Resources Plan

ATC evaluated the potential for rare species to be present along Segment B as part of the Joint Application. This evaluation included review of WDNR Natural Heritage Inventory (NHI) data, in-field habitat characterizations and/or field surveys in representative areas. Extensive coordination with the WNDR was conducted throughout this period. Based on this evaluation, it was agreed that rare species are either not present along Segment B or if present they would not be impacted by construction activities (e.g., aquatic species). If it is subsequently determined that a rare species is present along this segment, ATC will undertake appropriate protection measures in coordination with the WDNR and/or USFWS.

E. Invasive Species Management Plan

Dominant vegetation within the Segment B ROW was documented during field evaluations in 2006, and site walk downs and other field visits in 2010. The general location and composition of invasive species present within the ROW were identified during these assessments.

Segment B is located along the I90/39 corridor traversing primarily agricultural fields, wetlands, woodlands and grasslands. All communities along this segment are degraded to some degree by fragmentation from the road and other developments, and invasive species are commonly present. The wooded areas along this segment are comprised of varied species most of which contain an understory of common buckthorn and honeysuckle shrubs (both are “Restricted” species as defined in *Wis. Admin Code* Ch. NR 40). Weedy herbaceous species such as wild parsnip (*Pastinaca sativa*) (a “Restricted” species) are also common along the Segment B ROW. Many of the wetlands along this segment are

dominated by reed canary grass (*Phalaris arundinacea*) with common buckthorn and honeysuckle shrubs occasionally present within and/or bordering the wetlands (Segment B, Appendix E).

Because these common invasive species are typically found throughout this segment, and no isolated pockets of other invasive species were identified, location specific BMP's have not been developed. If during future field visits ATC encounters a localized population of an invasive species other than those discussed here, appropriate BMP's will be implemented.

The following general BMPs will be utilized during construction along Segment B to comply with *Wis. Admin Code* Ch. NR 40 and ATC's Summary of Environmental Commitments for the Rockdale to West Middleton Project. The intent of these practices is to limit the spread of invasive species.

<u>General BMP's</u>

- Construction equipment and material
    - Minimize soil disturbance and utilize gravel roads or established equipment access paths to the extent practicable.

- Managing soil and material
    - Avoid movement of invasive material to non-infested areas. If possible, invasive material should be left within the ROW. For example, when clearing areas dominated by honeysuckle or buckthorn shrubs, cut material should be left in generally the same place and not spread off-site or to uninfested areas.
    - If infested soil or vegetative material must be transported from the ROW, transport to a designated area for appropriate disposal. Prior to transporting material, manage the load to limit potential spread to uninfested areas.
    - Manage stockpiles onsite to prevent the spread to adjacent areas.

- Restoration and landscaping
    - Select appropriate species for restoration and landscaping activities. Invasive species should not be used for revegetation purposes.
    - Revegetate disturbed soils as soon as possible to minimize invasive species establishment.
    - In areas where topsoil has been segregated and stored on-site (agricultural fields and wetlands), the segregated topsoils should be respread around the installed pole foundation, with minimal mounding. Note that approximately 6 inch height of mounding is needed for caisson foundations, and 12 inches for direct embed, to prevent a depression subsequent to soil settling.

F. Wetland Restoration and Revegetation Plan

A general summary of wetland community characteristics within the Segment B ROW is presented in Segment B, Appendix E. This characterization is based on field observations from 2006 and 2010. In summary, the majority of the wetlands are degraded and dominated by reed canary grass. In addition, several wetlands have forested and/or shrub-carr elements with dominants including box elder, eastern cottonwood, silver maple, sandbar willow, gray dogwood and common buckthorn.

The following provides guidelines for wetland restoration and revegetation for Segment B:

<u>Restoration / Revegetation</u>

- Restoration within wetland areas will include removal of all construction-related materials, and the restoration of significant ruts and depressions.
- In wetland areas where disturbance is minimal, access paths and structure locations will generally be allowed to regenerate naturally. These locations will be monitored to ensure regeneration is occurring.
- Segregated topsoils in wetlands should be respread around the installed pole foundation.
- The right of way should be restored to pre-existing topography as much as practicable.
- If significant rutting occurs in wetlands, those areas will be repaired using hand tools, back dragging or other appropriate means to restore topography.
- If necessary, disturbed areas within wetlands may be seeded with an annual rye grass or common oats to provide temporary cover while the vegetation regenerates.
- If additional seeding is necessary (beyond the use of temporary cover seeding), only seed mixes approved by the ATC Environmental Monitor shall be used (refer to Segment B, Appendix F for a typical wetland seed mix used by ATC) and the seeding will be consistent with the following standards:

    - Seed mixtures shall be selected based on soil and site conditions and intended final use, with approval by the ATC Environmental Monitor;
    - Seed mixes will conform to Wisconsin Statutes Chapter 94 and the Wisconsin Administration Code Chapter ATCP 20;
    - Seed will be uniformly applied and incorporated into the top one inch of soil; and
    - No invasive or exotic species shall be included in the seed mixture
    - No mulch will be applied in wetlands or on the banks of waterways.

<u>Other /Miscellaneous</u>

- Fertilizers will not be used within 100 feet of wetlands, streams and rivers.
- Cover such as erosion blankets or other weed-free devices may be applied after seeding and final restoration has occurred in wetland areas disturbed by construction activities. All erosion control measures taken will conform to WDNR Technical Standards.

- Soil erosion and sedimentation control measures installed will be maintained until the disturbed areas are permanently stabilized.

G. Wooded Wetland Management Plan

Several wooded wetlands will be impacted by construction along Segment B. In general, the entire ROW width will be cleared for safe construction equipment access in wooded areas; however, waterways require the preservation of a 50-foot wide low-growth vegetative buffer, where it currently exists. In this buffer, only hand clearing of woody and tall-growing species greater than 15 feet at maturity will occur except in areas where a TCSB will be installed, which will minimize the impacts to wooded wetlands. The amount of clearing at TCSB locations will be kept to a minimum.

Trees cut in wetland areas will generally be removed from the wetland and windrowed or chipped in upland areas. Some of the woody vegetation that is cleared may remain in the wetland areas. This includes lop and scatter of tree limbs and potentially some thin scatter of wood chips, and vegetation fragments resulting from mowing the shrub and sapling layer. Woody vegetation left in the wetland will be scattered in a manner that it does not impede vegetation growth, water flow or alter the bottom elevation of the wetland.

H. Wooded Riparian Buffer Impact Minimization and Restoration Plan

A 50-foot wide low-growth vegetative buffer will be maintained along waterways, where it currently exists. In this buffer, woody vegetation attaining heights greater than 15 feet at maturity will be hand cleared; the existing low-growth vegetation will be allowed to remain except in areas where TCSBs will be installed. Areas disturbed by construction will be re-seeded as described in the *Wetland Restoration and Re-vegetation Plan* section.

Cut material shall be placed to assure that the material will not enter any stream or waterway.

I. Final Sequencing and Scheduling Plan

ROW clearing for construction along Segment B is scheduled to begin in September, 2011. The following summarizes the anticipated timing of construction along this segment:

- ROW clearing – Sept. 2011-Nov./Dec. 2011
- Structure Foundations – Oct. 2011-Feb. 2012
- Install Structures – Nov. 2011-Feb. 2012
- Install Conductor – Jan. 2012-May. 2012

ROW cleanup and restoration is scheduled to occur in the spring/summer following completion of construction, actual dates for restoration will be weather and schedule dependent. Permanent restoration within any given area will be properly implemented within 30 days of final construction. If

restoration is delayed due to weather or soil conditions, the area will be protected until permanent restoration can be completed.

Temporary clear span bridges will be installed as construction progresses along the segment. Bridges will not be set prior to September 2011, and are anticipated to be removed in summer 2012 following restoration. The actual removal date may change if there are delays in construction and/or restoration.

J. Post-Construction Monitoring Plan

Two levels of wetland and waterway monitoring will be required for this project. The following provides a summary of this monitoring.

Weekly Monitoring

In accordance with typical standard conditions of an Erosion Control permit, it is anticipated that ATC will be required to conduct frequent monitoring (e.g., weekly and after a significant rainfall event) of erosion and sediment controls during and after construction, which may include areas within and adjacent to wetlands and waterways. This monitoring will occur until the areas are stabilized as defined in General Condition #76 in the Utility Permit.

Annual Monitoring

ATC will conduct annual post-construction monitoring of the portions of wetlands and waterways impacted by construction, as outlined in General Condition #78 of the WDNR Utility Permit. The monitoring will consist of documenting vegetation types and approximate percent cover in the disturbed areas. The monitoring will occur during the growing season and will be conducted annually for 3 years after construction unless compliance is achieved and documented earlier. If non-native or invasive species identified in the post-construction survey are generally not consistent with adjacent areas and/or pre-construction conditions, ATC will prepare a remediation plan for WDNR approval. This plan will be implemented within 90 days of WDNR approval (if the approval occurs early in the growing season), or during the following growing season, whichever occurs first. Additional follow-up revegetation procedures will be developed and implemented in problem areas if necessary.

A restoration monitoring report will be submitted to the WDNR by December 15 for each year in which monitoring occurs in accordance with General Condition #26 of the WDNR Utility Permit. The report will consist of a summary of dominant vegetation, approximate percent cover and general topography observations in disturbed portions of wetlands and waterways. Photographs of each feature and recommendations to cease monitoring or apply corrective action (if necessary) will also be provided.

K. Segment Specific Agricultural Mitigation Measures

The Contractor shall strip and segregate topsoil and subsoil at all excavation sites located within cropped and uncropped agricultural fields, and all areas where access grading is required within agricultural fields. Stripped topsoil will be stockpiled near the location where it was removed, and will be replaced as

soon as practicable. If necessary, new topsoil will be spread if topsoil has been lost or substantially mixed with subsoils.

The Department of Agriculture, Trade, and Consumer Protection (DATCP) has identified one area where there are soil types of concern on Segment B that when wet may result in significant rutting which could cause the mixing of topsoils and subsoil. This is shown on pages B-15 and B-16 of the EAP as "DATCP requirement – avoid or mat when wet".

L. Oak Wilt Restrictions

ATC's corporate policy is to abide by the PSC 113.051 requirements related to oak wilt, however we are also aware of the DNR recommended guidelines for timing restrictions. ATC makes every attempt to follow the DNR recommended guideline that is typically April 1-July 31, using the PSC 113.051 requirements during this timeframe. In addition, where local municipalities have more stringent requirements, ATC attempts to comply with those requirements. Portions of Segment B (north of structure 122105) are located within the City of Madison, which has a moratorium on oak activities from April 1 through October 15, unless permitted by the City Forester. On Segment B, ATC will either ensure that oak tree trimming /removal is done outside of the restricted time period, or will work with the City Forester to gain the necessary approval if it becomes necessary to trim or remove oak trees during the restricted time period.

The Memorandum of Understanding between the ATC and the Wisconsin Department of Transportation (WisDOT) further requires that oak trees within WisDOT ROW shall not be cut or pruned from April 15 to October 15 unless a thick coat of asphalt base tree paint is applied immediately after **any** cut, pruning wound, or abrasion made between those dates.

Segment B, Appendix A

Environmental Access Plan

8/26/2011

Environmental Access Plan – Segment B

Graphic Index
for Rockdale to West Middleton Project

SEGMENT HIGHLIGHTS

- **6 Temporary Clear Span Bridges will be required over waterways**
- **Eleven poles will be constructed in wetlands on Segment B** *(1 pole (#122098) in wetland on Segment H is also shown on page B-1)***:**
  - **6 poles (#122099-122104) in wetland H(47)-W2,**
  - **1 pole (#122123) in wetland B(65)-W5,**
  - **1 pole (#122132) in wetland B(65)-W7,**
  - **2 poles (#122157 and #122158) in wetland B(65)-W10, and**
  - **1 pole (#122159) in wetland B(65)-W10a.**
- **Agricultural Soils: The Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP) has identified sensitive soil types that must be avoided or matted during construction when wet. These areas are identified on this plan.**
- **Bird marking devices will be installed on the shield wire between structures #122121 and #122123. This area is identified on this plan (Pages B-6 and B-7).**
- **Six locations along this segment have erosion control details specified in the Erosion Control Plan. These areas are identified on this plan.**

August 2011

INDEX TO FEATURES

FEATURES INDEX			
Wetland Identifier	Waterway		Map Page
	Identifier	TCSB	
H (47)-W2			B-1, B-2, B-3
	H (47)-R3		B-1
	B (120)-R2	X	B-2
	B (120)-R1		B-2
	B (65)-R1	X	B-2
B (65)-W1			B-3
B (65)-W2			B-3
B (65)-W3			B-4
B (65)-W4			B-5
B (120)-W1			B-5
B (65)-W5			B-6, B-7
	B (65)-R2		B-6
B (65)-W6			B-8
B (65)-W7	B (65)-R3	X	B-9
	B (65)-R4	X	B-13
B (65)-W9			B-14
B (65)-W10	B (65)-R5	X	B-15
	B (65)-R5	X	B-15
B (65)-W10a	B (65)-R6		B-15, B-16
B (65)-W11			B-16
B (65)-W12			B-17

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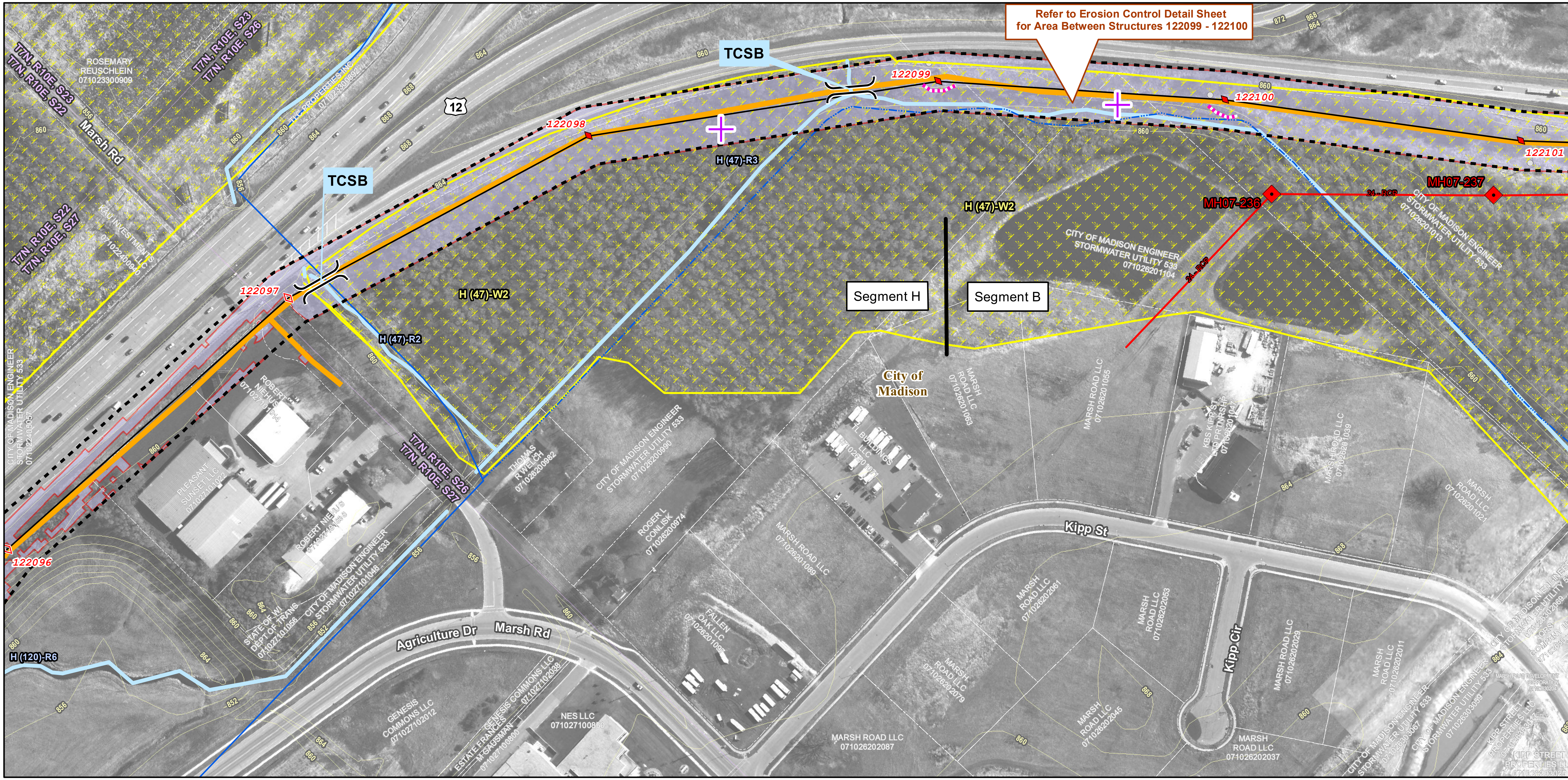
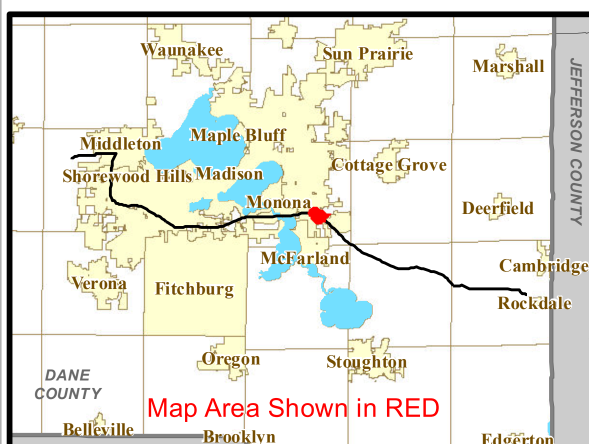


Refer to Erosion Control Detail Sheet
for Area Between Structures 122099 - 122100
TCSB
TCSB
122096
122097
122098
122099
122100
122101
H (47)-R2
H (47)-R3
H (47)-W2
H (47)-W2
H (120)-R6
Segment H
Segment B
City of Madison
MH07-236
MH07-237
24 - RCP
24 - RCP
T7N, R10E, S23
T7N, R10E, S26
T7N, R10E, S23
T7N, R10E, S22
T7N, R10E, S22
T7N, R10E, S27
T7N, R10E, S26
T7N, R10E, S27
Marsh Rd
Agriculture Dr
Marsh Rd
Kipp St
Kipp Cir
12
ROSEMARY REUSCHLEIN 071023300909
TLC PROPERTIES INC 071023300892
KAU INVESTMENTS LLC 071022400940
CITY OF MADISON ENGINEER STORMWATER UTILITY 533 071022405057
ROBERT NIEHUS 071027101014
PLEASANT SUNSET LLC 071027101022
ROBERT NIEHUS 071027101030
CITY OF MADISON ENGINEER STORMWATER UTILITY 533 071027101048
STATE OF WI DEPT OF TRANS 071027101056
THOMAS R WELCH 071026200982
CITY OF MADISON ENGINEER STORMWATER UTILITY 533 071026200990
ROGER L CONLISK 071026200974
MARSH ROAD LLC 071026201089
TL BUILDINGS LLC 071026201071
MARSH ROAD LLC 071026201063
MARSH ROAD LLC 071026201055
CITY OF MADISON ENGINEER STORMWATER UTILITY 533 071026201104
KBS KIPP ST LTD PRTNRSHP 071026201047
MARSH ROAD LLC 071026201039
CITY OF MADISON ENGINEER STORMWATER UTILITY 533 071026201013
MARSH ROAD LLC 071026201021
FALLEN OAK LLC 071026201097
GENESIS COMMONS LLC 071027102012
GENESIS COMMONS LLC 071027102038
ESTATE FRANCES M GAUSMAN 071027100800
NES LLC 071027100850
MARSH ROAD LLC 071026202087
MARSH ROAD LLC 071026202061
MARSH ROAD LLC 071026202079
MARSH ROAD LLC 071026202053
MARSH ROAD LLC 071026202045
MARSH ROAD LLC 071026202037
MARSH ROAD LLC 071026202029
MARSH ROAD LLC 071026202011
CITY OF MADISON ENGINEER STORMWATER UTILITY 533 071026303067
CITY OF MADISON ENGINEER STORMWATER UTILITY 533 071026303059
CITY OF MADISON ENGINEER STORMWATER UTILITY 533 071026302069
QRS COMPANY LLC 071026302051
MARSH ROAD DEVELOPMENT CORPORATION 071026302043
KIPP STREET PROPERTIES LLC 071026303017
KIPP STREET PROPERTIES LLC 071026303025



Waunakee
Sun Prairie
Marshall
Middleton
Maple Bluff
Shorewood Hills
Madison
Cottage Grove
Monona
Deerfield
McFarland
Cambridge
Verona
Fitchburg
Rockdale
Oregon
Stoughton
DANE COUNTY
Map Area Shown in RED
Belleville
Brooklyn
Edgerton
GREEN COUNTY
ROCK COUNTY
JEFFERSON COUNTY

WETLAND CONSTRUCTION METHOD

Overhead — Proposed Centerline
CT 1 - No Special Technique Needed

Vehicle Construction Access

Potential Vehicle Constr. Access

TCSB *Temporary Clear Span Bridge*

Graded Construction Access and Structure Pads

Transmission Right-of-Way
* Right-of-way shown on this map is approximate and is shown for guidance only. Generally, ROW varies from approximate 90'-120'.

Existing Pole — Existing Substation

Proposed Pole

Proposed Pole in Wetland

New Location of Double Circuit 138 kV Poles Only on page B-17

Southern Extent of 138 kV ROW Only on page B-17

Alliant Gas Line

No Access

Approximate wire set up area (~60 ft. x 200 ft.)

200 Topographic Line *Elevation*

Property Line
Shown with Parcel Number and Owner Name

BMP Required if Soil is Disturbed - Perimeter Control

BMP Required if Soil is Disturbed - Temporary Slope Breaks

MMSD Structure
Only on segments O, H, and B

MMSD Underground Sewer Line
Only on segments O, H, and B

WDNR Hydrology
Intermittent Stream
Perennial Stream

Waterway

DATCP Requirement - Avoid or Mat When Wet

Wetland

Base Map Data Sources: ATC, WDNR, PSCW, WDOT, Dane County LIO, NRCS. Parcels: Dane County, January 2010.
The information presented in this map document is advisory and is intended for reference purposes only.
ATC owned and operated facility locations are approximate.

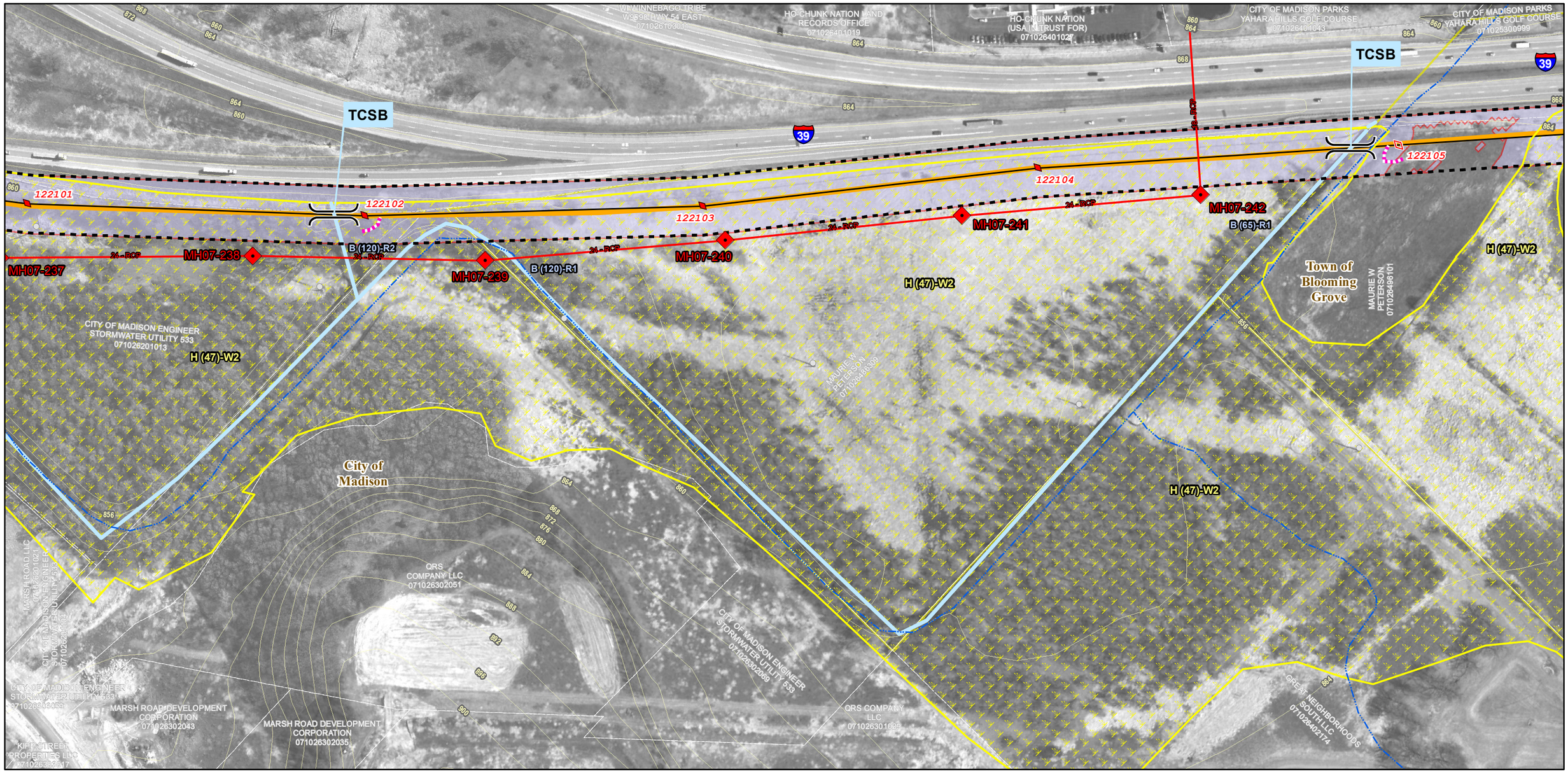
ROCKDALE - WEST MIDDLETON TRANSMISSION LINE PROJECT
ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

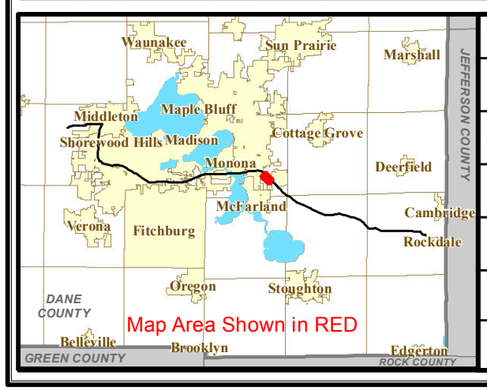
0 100 200
Feet

AMERICAN TRANSMISSION COMPANY

August 22, 2011

Orthophotography: 2010 FlyDane
Z:\ARCGIS\05 Projects\05-126X RWM Final\Post_Submittal_Mapping\EAP\RWM_EAP_maplex.mxd





WETLAND CONSTRUCTION METHOD

- Overhead — Proposed Centerline
  CT 1 - No Special Technique Needed
- Vehicle Construction Access
- Potential Vehicle Constr. Access
- TCSB
  Temporary Clear Span Bridge
- Graded Construction Access and Structure Pads
- Transmission Right-of-Way
  * Right-of-way shown on this map is approximate and is shown for guidance only. Generally, ROW varies from approximate 90'-120'.

- Existing Pole
- Existing Substation
- Proposed Pole
- Proposed Pole in Wetland
- New Location of Double Circuit 138 kV Poles — Only on page B-17
- Southern Extent of 138 kV ROW — Only on page B-17
- Alliant Gas Line
- No Access

- Approximate wire set up area (~60 ft. x 200 ft.)
- 200 Topographic Line — Elevation
- Property Line
  Shown with Parcel Number and Owner Name
- BMP Required if Soil is Disturbed - Perimeter Control
- BMP Required if Soil is Disturbed - Temporary Slope Breaks

- MMSD Structure
  Only on segments O, H, and B
- MMSD Underground Sewer Line
  Only on segments O, H, and B
- WDNR Hydrology
  - Intermittent Stream
  - Perennial Stream
- Waterway
- DATCP Requirement - Avoid or Mat When Wet
- Wetland

Base Map Data Sources: ATC, WDNR, PSCW, WDOT, Dane County LIO, NRCS. Parcels: Dane County, January 2010.
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ROCKDALE - WEST MIDDLETON TRANSMISSION LINE PROJECT

ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

0 100 200
Feet

AMERICAN TRANSMISSION COMPANY

August 22, 2011

Orthophotography: 2010 FlyDane
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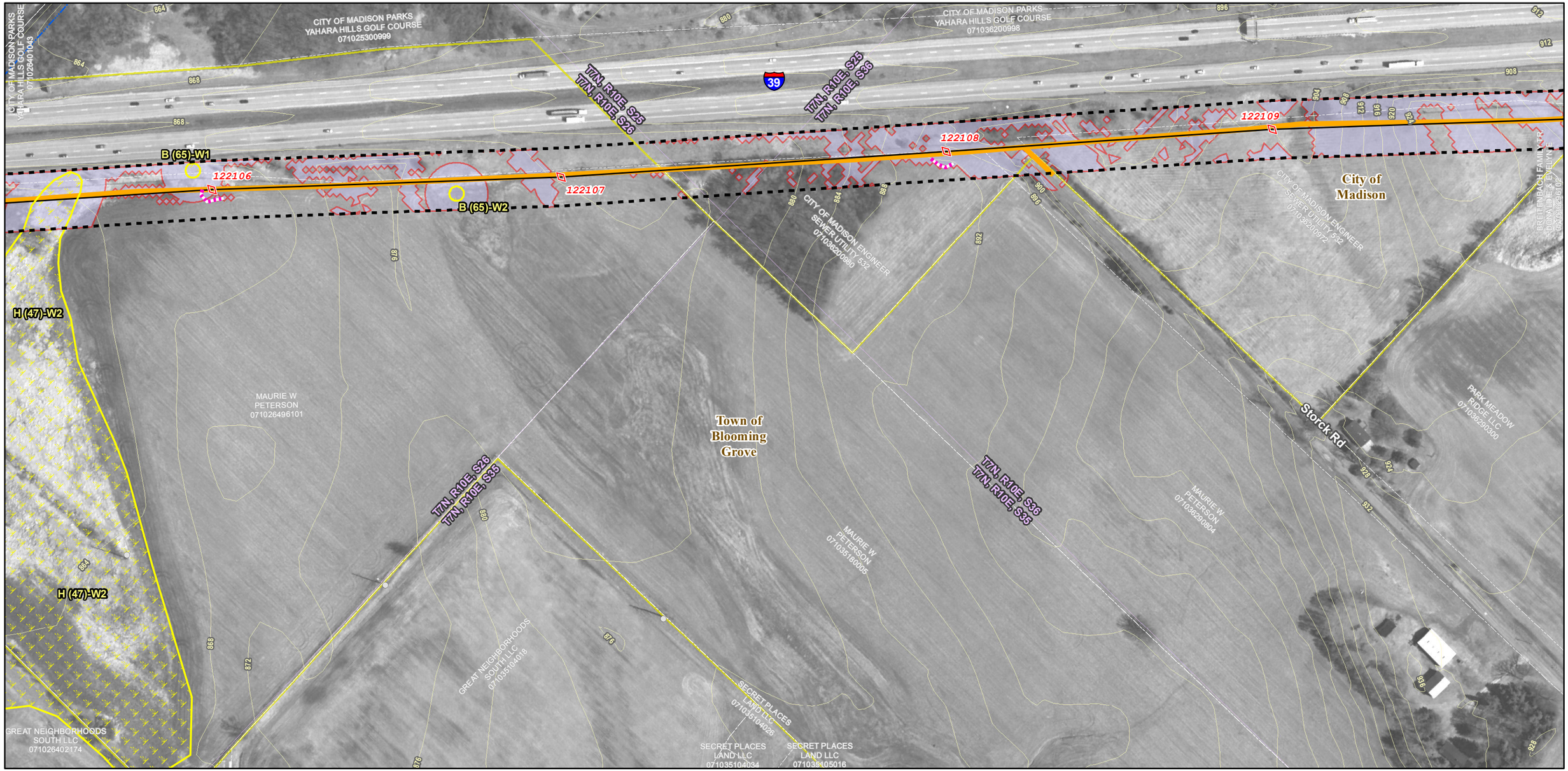

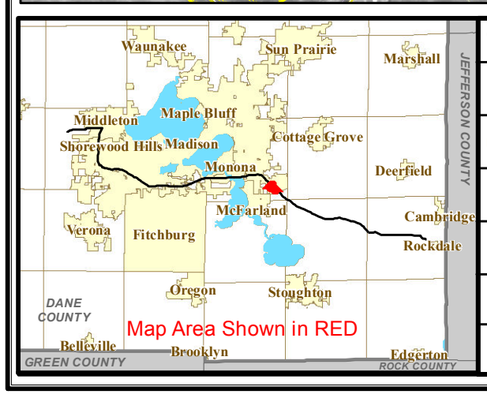

WETLAND CONSTRUCTION METHOD

- Overhead — Proposed Centerline
  CT 1 - No Special Technique Needed
- Vehicle Construction Access
- Potential Vehicle Constr. Access
- TCSB
  Temporary Clear Span Bridge
- Graded Construction Access and Structure Pads
- Transmission Right-of-Way
  * Right-of-way shown on this map is approximate and is shown for guidance only. Generally, ROW varies from approximate 90'-120'.

- Existing Pole
- Existing Substation
- Proposed Pole
- Proposed Pole in Wetland
- New Location of Double Circuit 138 kV Poles — Only on page B-17
- Southern Extent of 138 kV ROW — Only on page B-17
- Alliant Gas Line
- No Access

- Approximate wire set up area (~60 ft. x 200 ft.)
- 200 Topographic Line — Elevation
- Property Line — Shown with Parcel Number and Owner Name
- BMP Required if Soil is Disturbed - Perimeter Control
- BMP Required if Soil is Disturbed - Temporary Slope Breaks

- MMSD Structure — Only on segments O, H, and B
- MMSD Underground Sewer Line — Only on segments O, H, and B
- WDNR Hydrology
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  - Perennial Stream
- Waterway
- DATCP Requirement - Avoid or Mat When Wet
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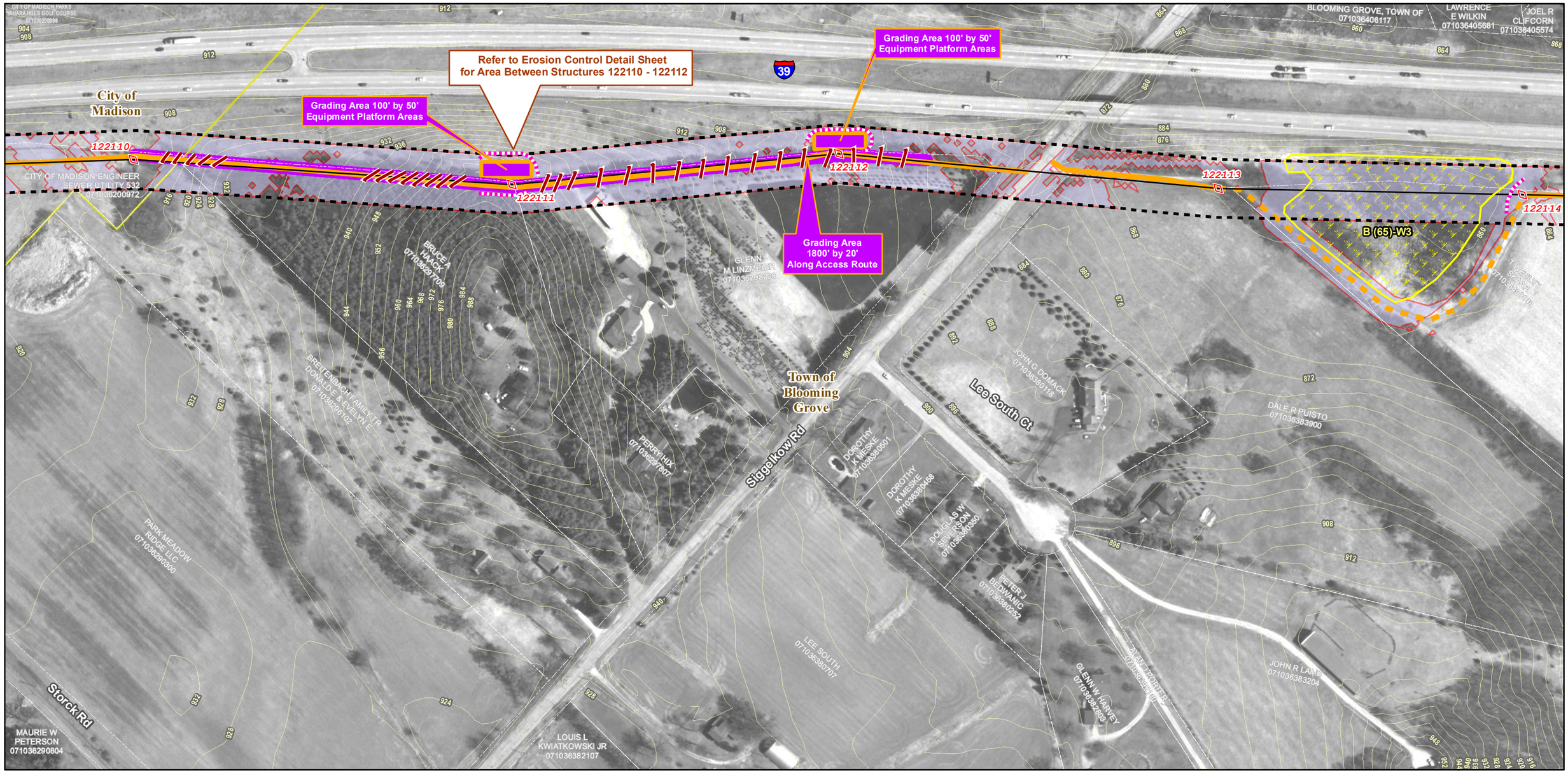

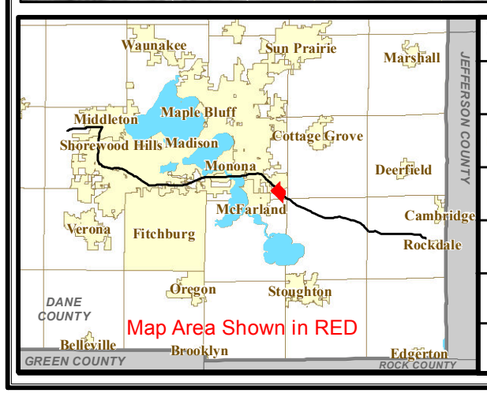

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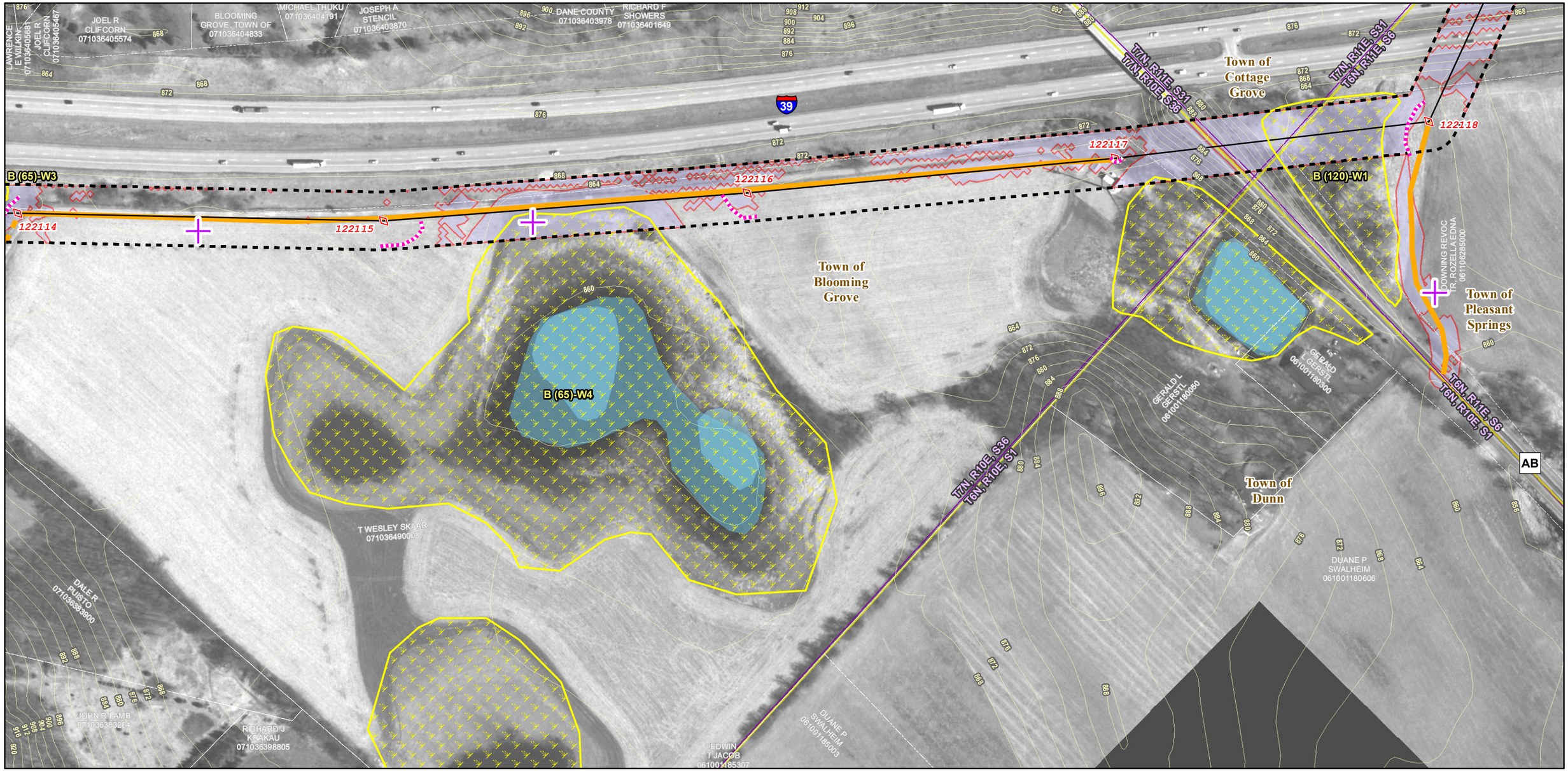

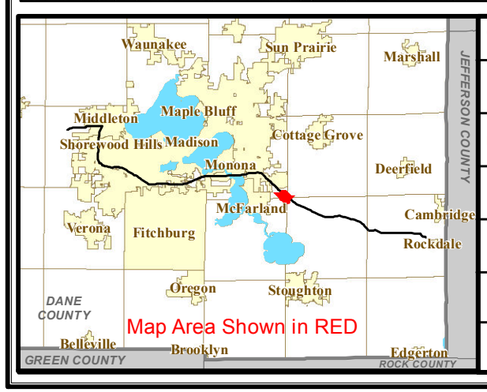

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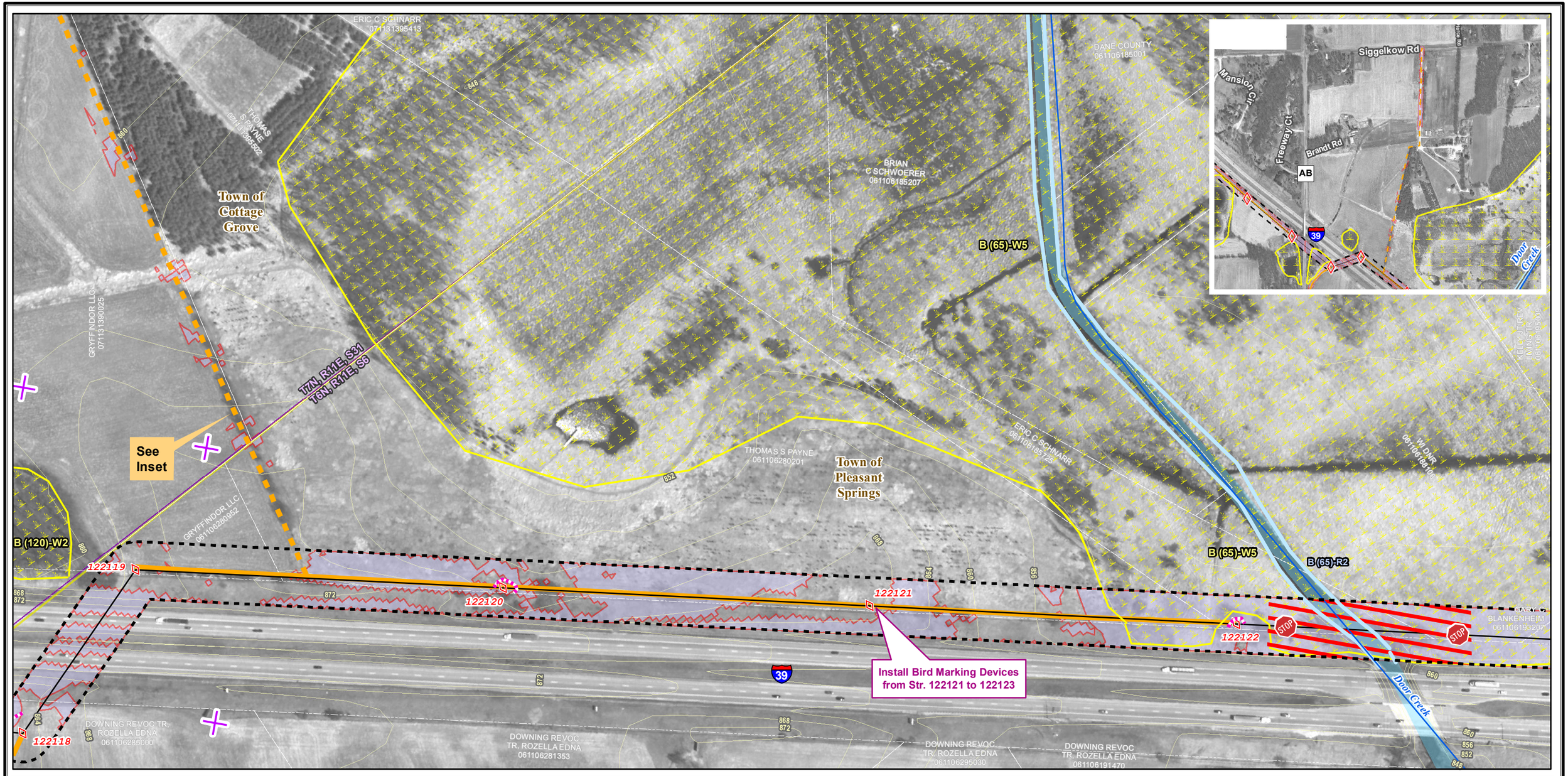

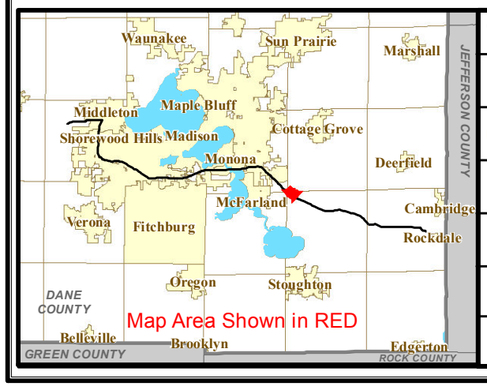

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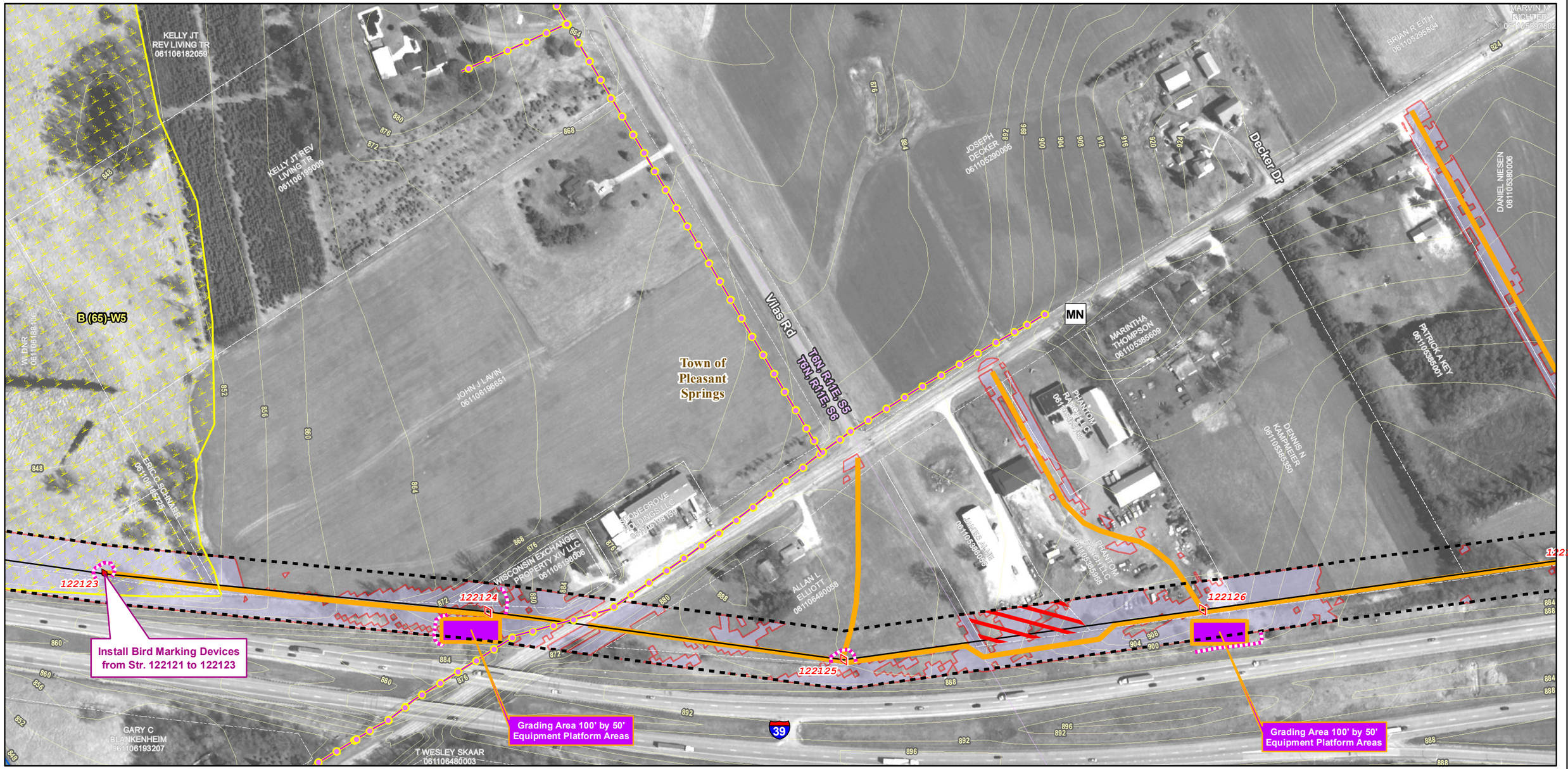

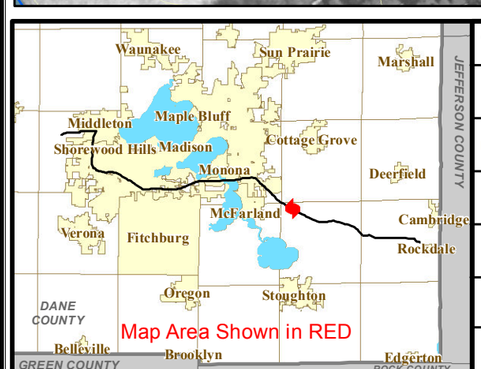

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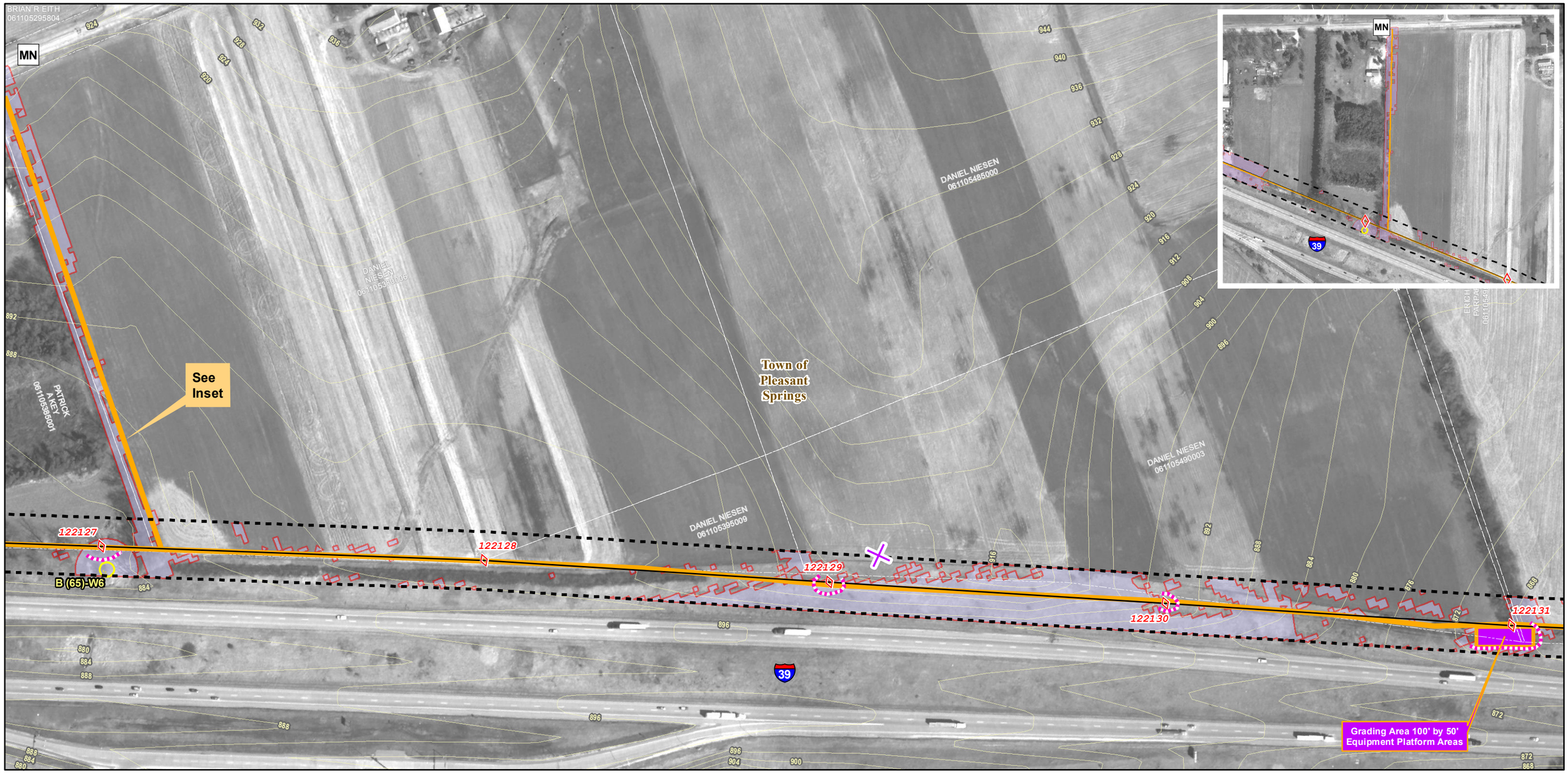

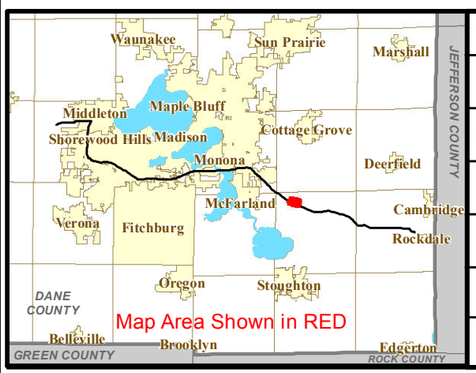

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ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

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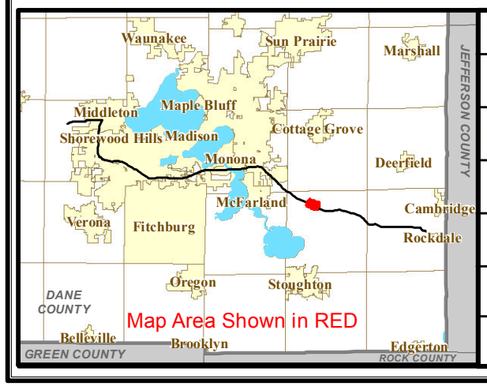

WETLAND CONSTRUCTION METHOD

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ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

0 100 200 Feet

AMERICAN TRANSMISSION COMPANY

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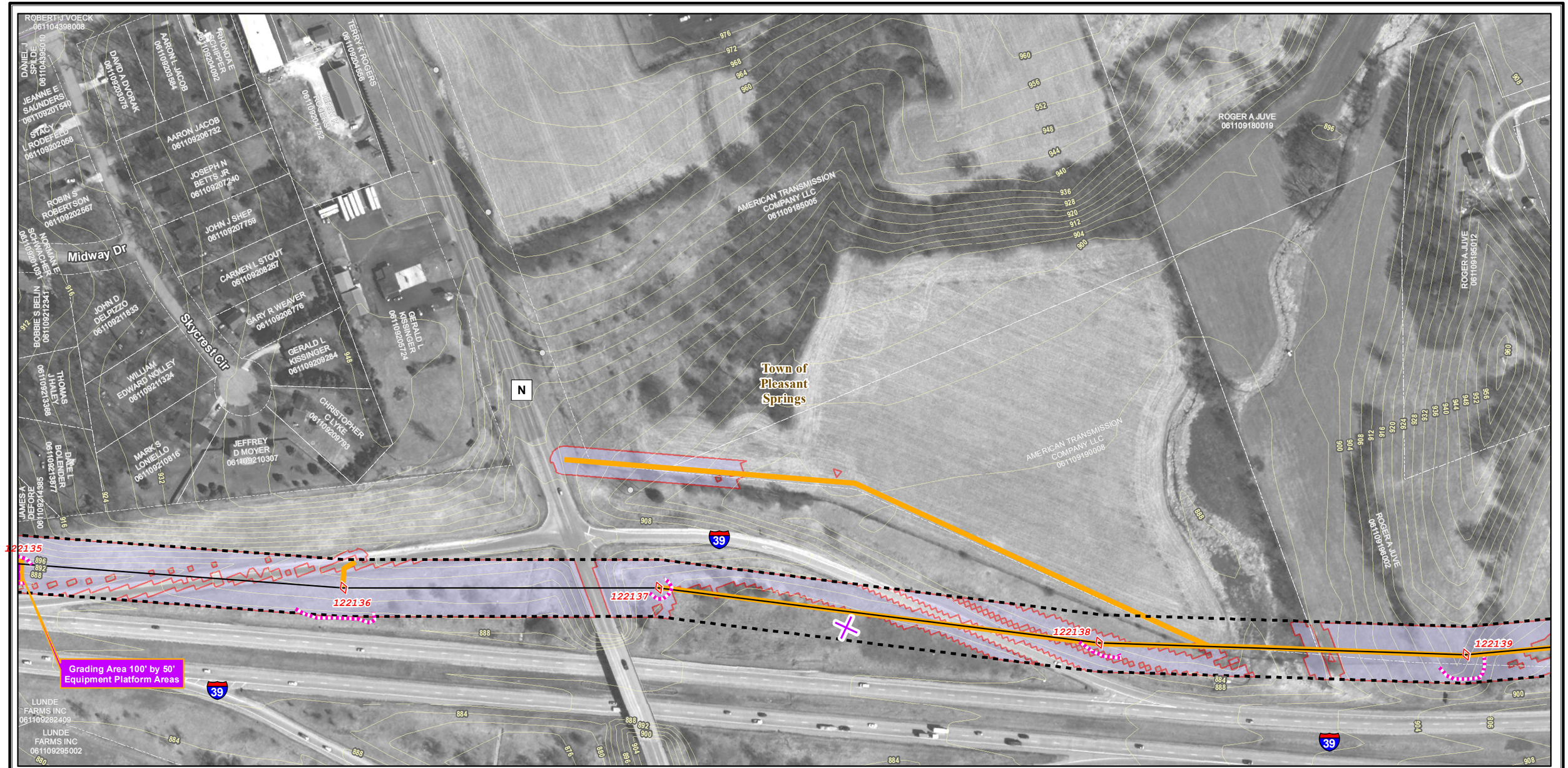

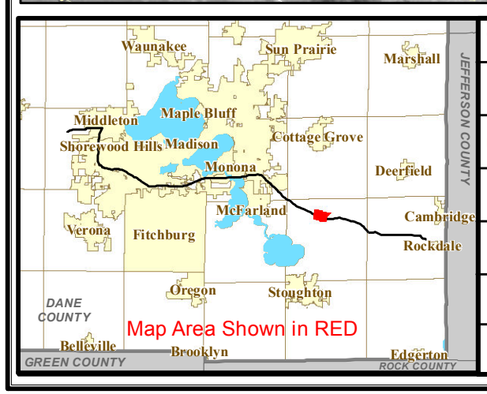

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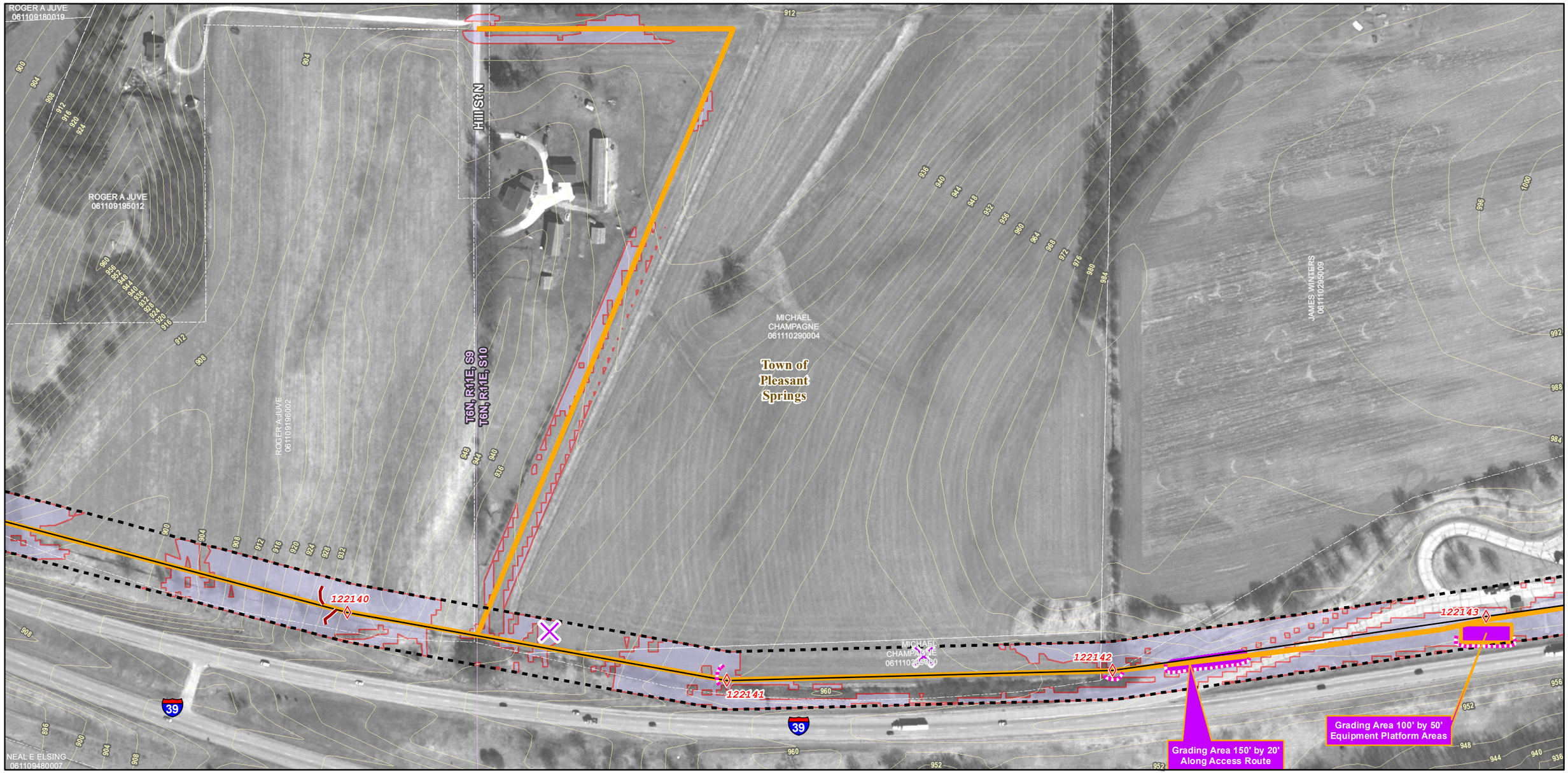

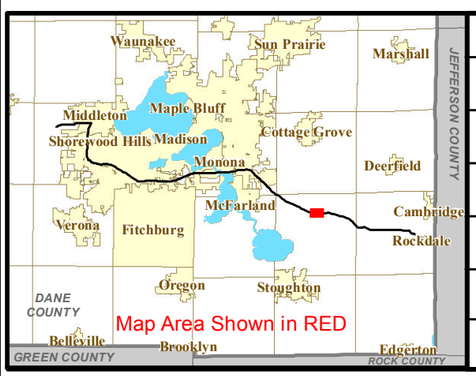

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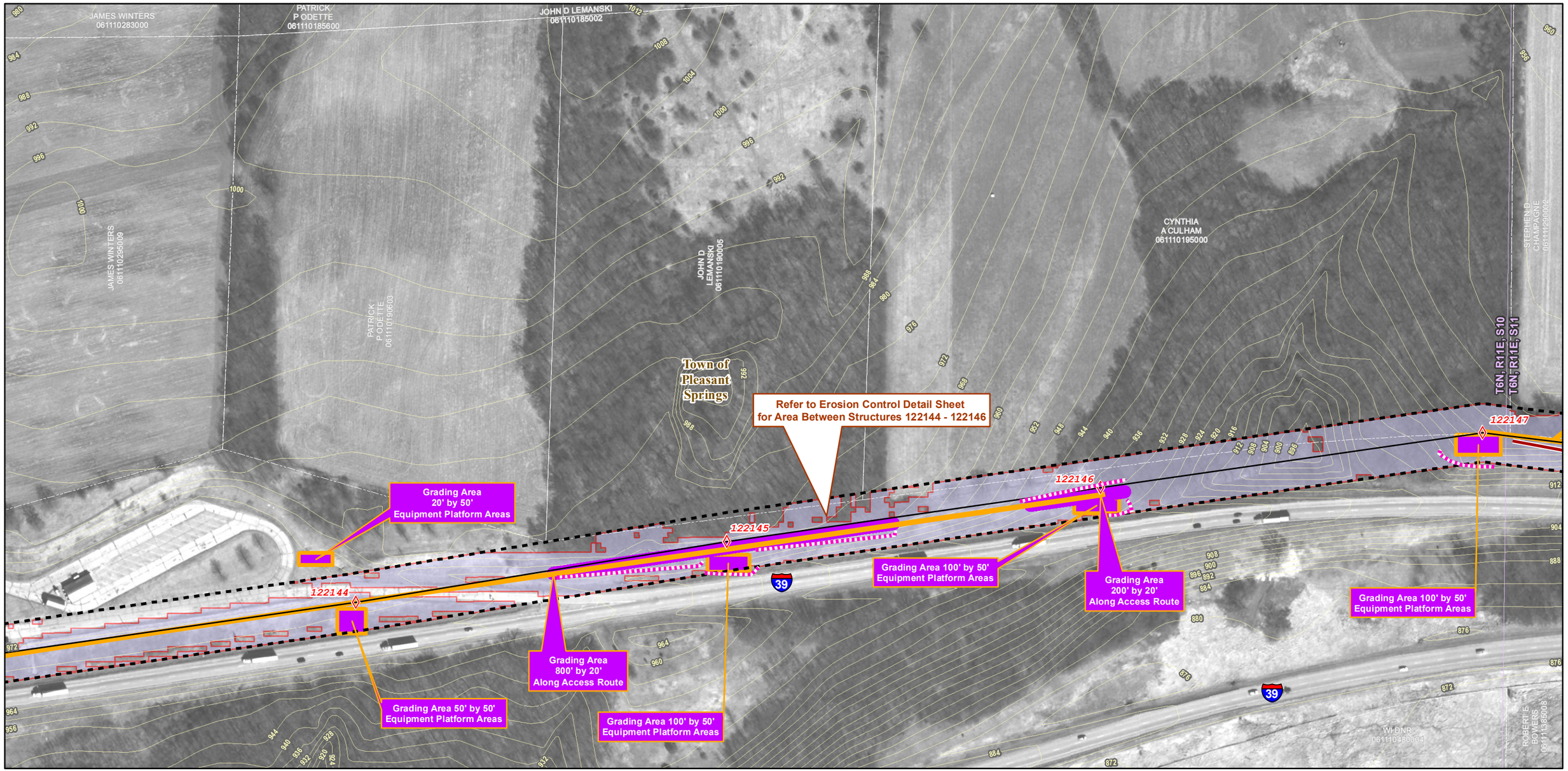

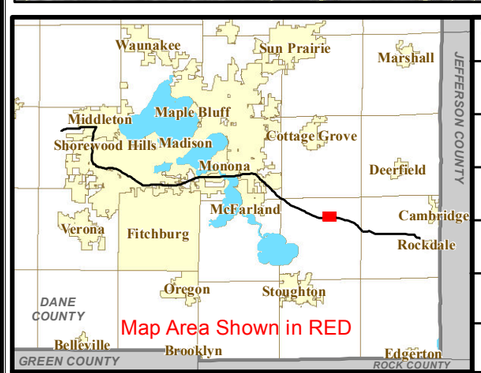

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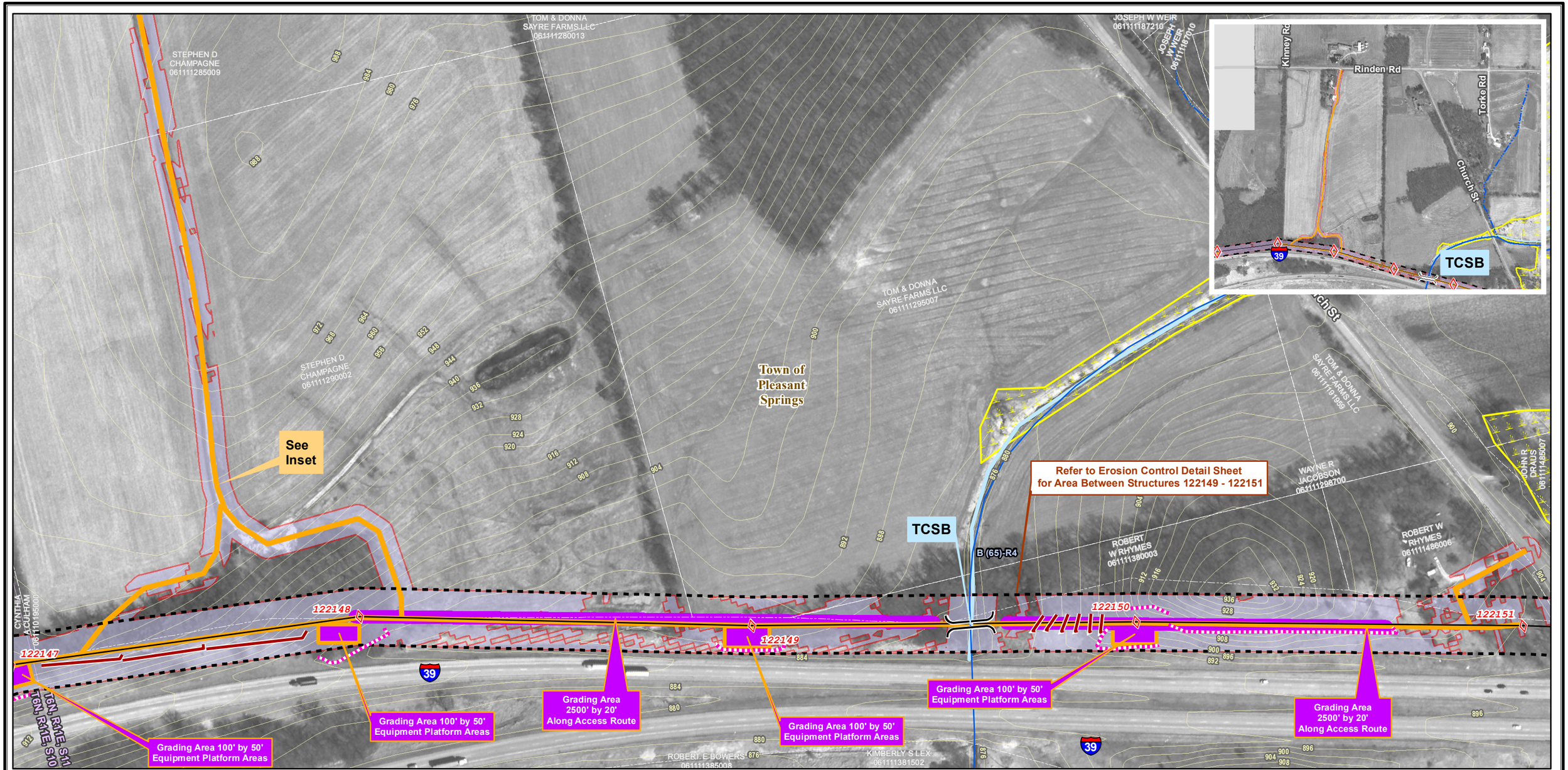

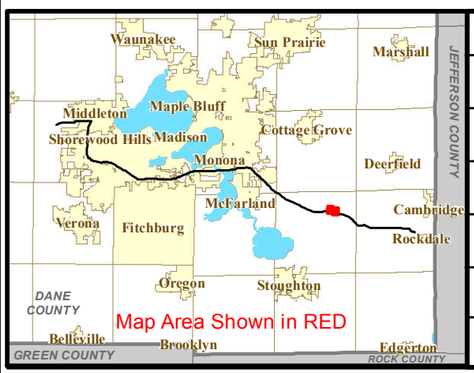

WETLAND CONSTRUCTION METHOD

- Overhead — Proposed Centerline
  CT 1 - No Special Technique Needed
- Vehicle Construction Access
- Potential Vehicle Constr. Access
- TCSB
  Temporary Clear Span Bridge
- Graded Construction Access and Structure Pads
- Transmission Right-of-Way
  * Right-of-way shown on this map is approximate and is shown for guidance only. Generally, ROW varies from approximate 90'-120'.

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- Southern Extent of 138 kV ROW — Only on page B-17
- Alliant Gas Line
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- Approximate wire set up area (~60 ft. x 200 ft.)
- 200 Topographic Line — Elevation
- Property Line
  Shown with Parcel Number and Owner Name
- BMP Required if Soil is Disturbed - Perimeter Control
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- MMSD Structure
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ROCKDALE - WEST MIDDLETON TRANSMISSION LINE PROJECT

ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

0 100 200 Feet

AMERICAN TRANSMISSION COMPANY

August 22, 2011

Orthophotography: 2010 FlyDane
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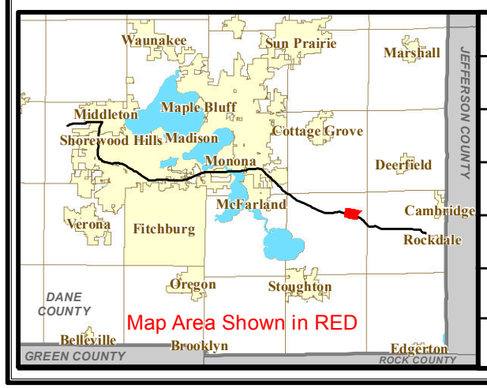

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ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

0 100 200
Feet

AMERICAN TRANSMISSION COMPANY

August 22, 2011

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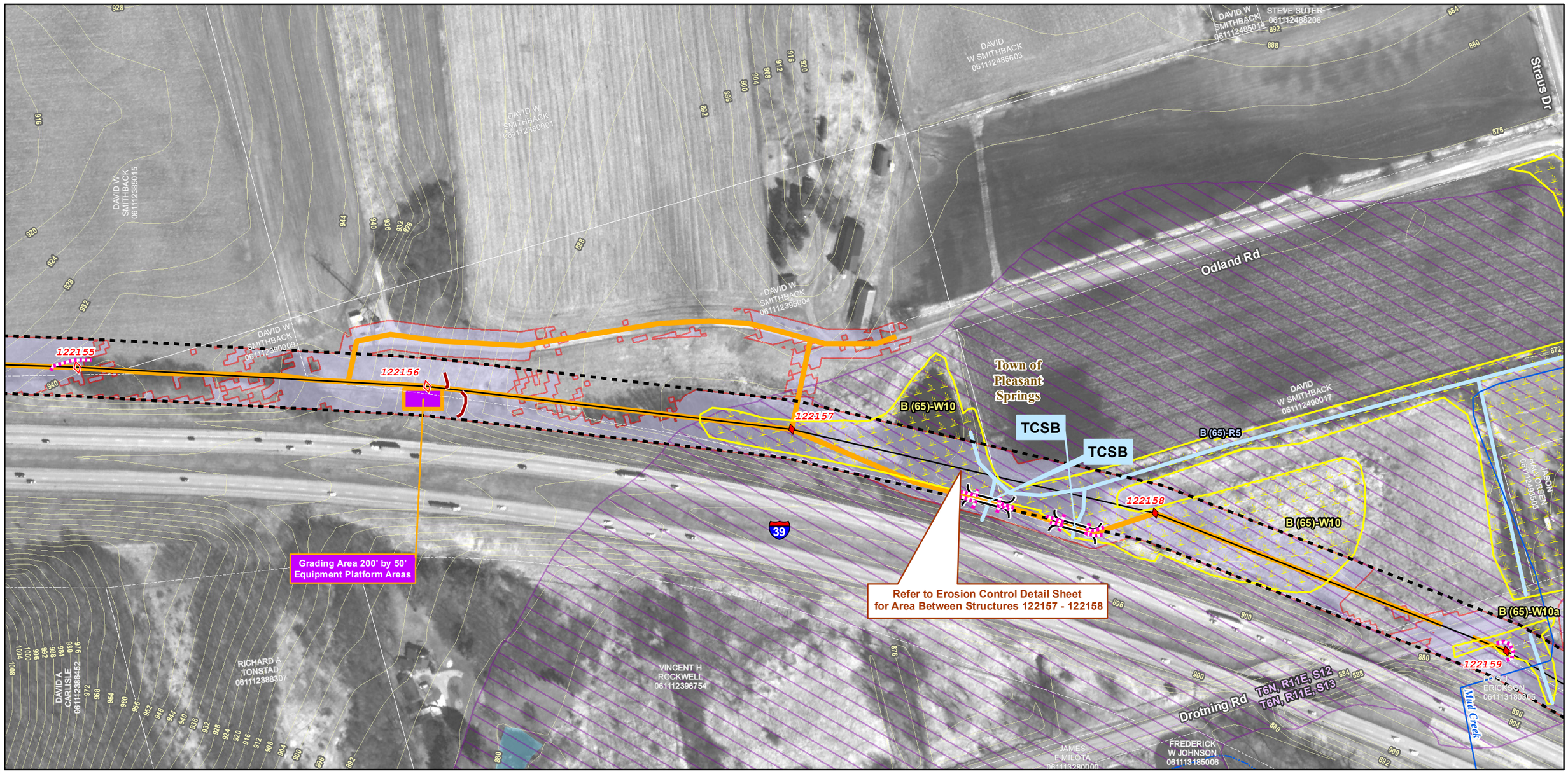

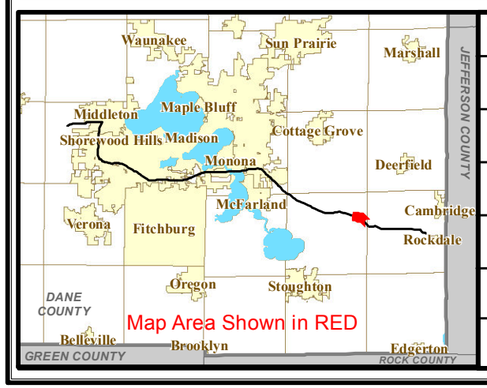

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ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

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Feet

AMERICAN TRANSMISSION COMPANY

August 22, 2011

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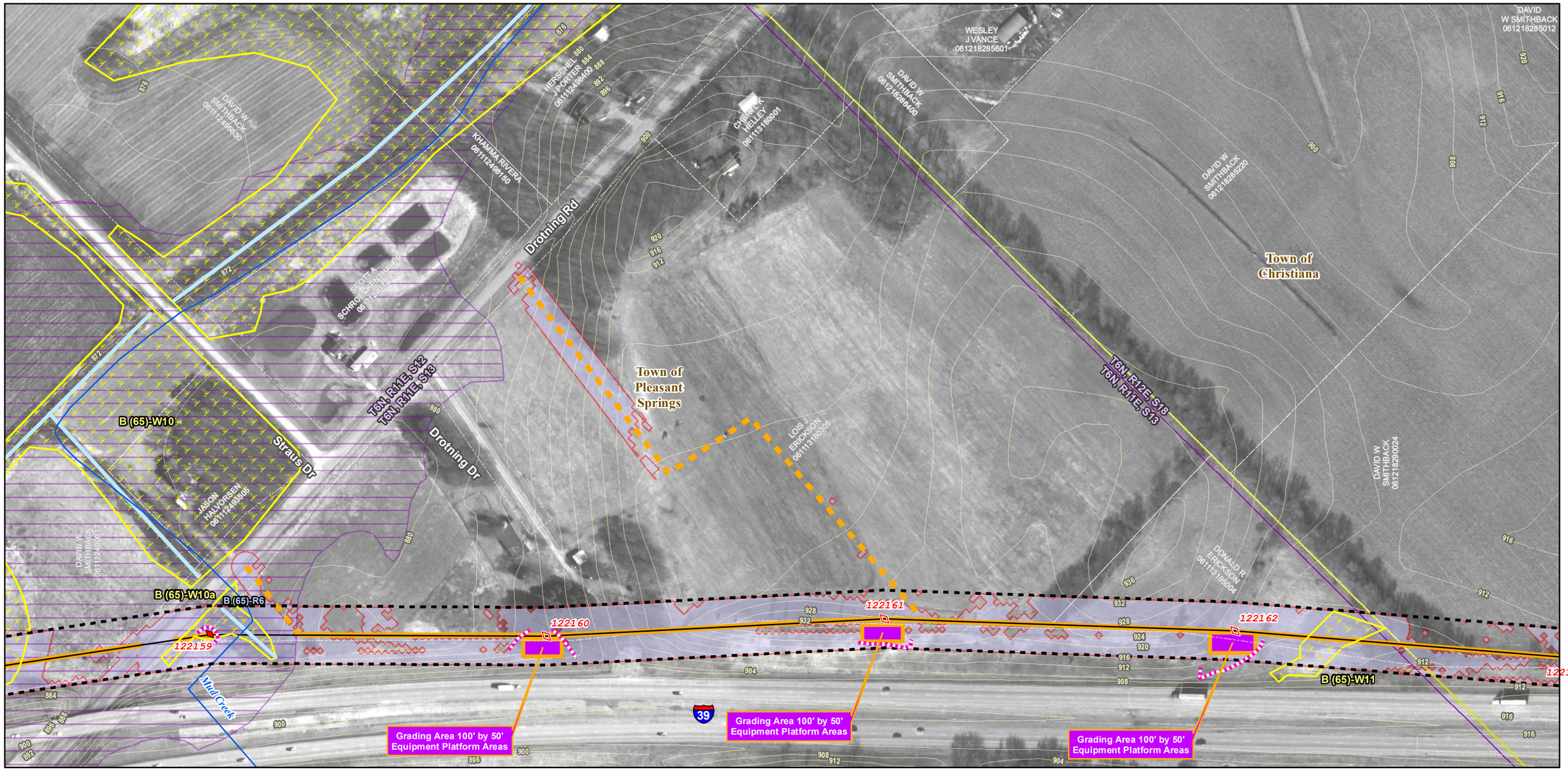

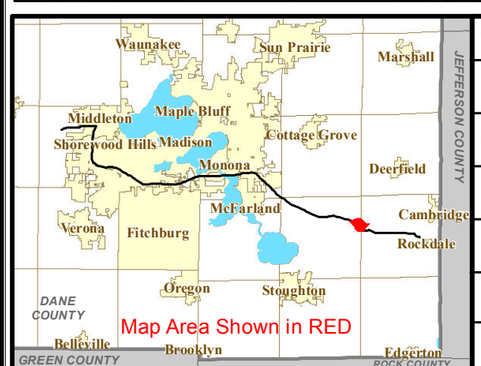

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ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

0 100 200
Feet

AMERICAN TRANSMISSION COMPANY®

August 22, 2011

Orthophotography: 2010 FlyDane
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DAVID W SMITHBACK 061218290024

SMITHBACK LE, WAYNE E 061218295001

STANLEY M DAHL 061218190007

DAVID W SMITHBACK 061218298400

GARY A JOHNSON 061218385904

GARY A JOHNSON 061218385002

GARY A JOHNSON 061218395902

GARY A JOHNSON 061218380703

SHIRLEY AABEL 061218380007

TRICIA M LARIDAEN 061218485001

Town of Christiana

122163

B (65)-W12

122190

122191

122191A

122192

25

25B

25A

24

W

39

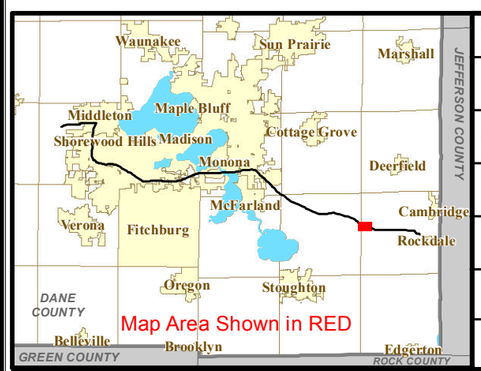
Refer to Erosion Control Detail Sheet for Area Between Structures 122192 - 122193

Grading Area 100' by 70' Equipment Platform Areas

Grading Area 150' by 20' Along Access Route

Segment B

Segment A



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ROCKDALE - WEST MIDDLETON TRANSMISSION LINE PROJECT

ENVIRONMENTAL ACCESS and EROSION CONTROL / GRADING PLAN

N

0 100 200
Feet

AMERICAN TRANSMISSION COMPANY

August 22, 2011

Orthophotography: 2010 FlyDane
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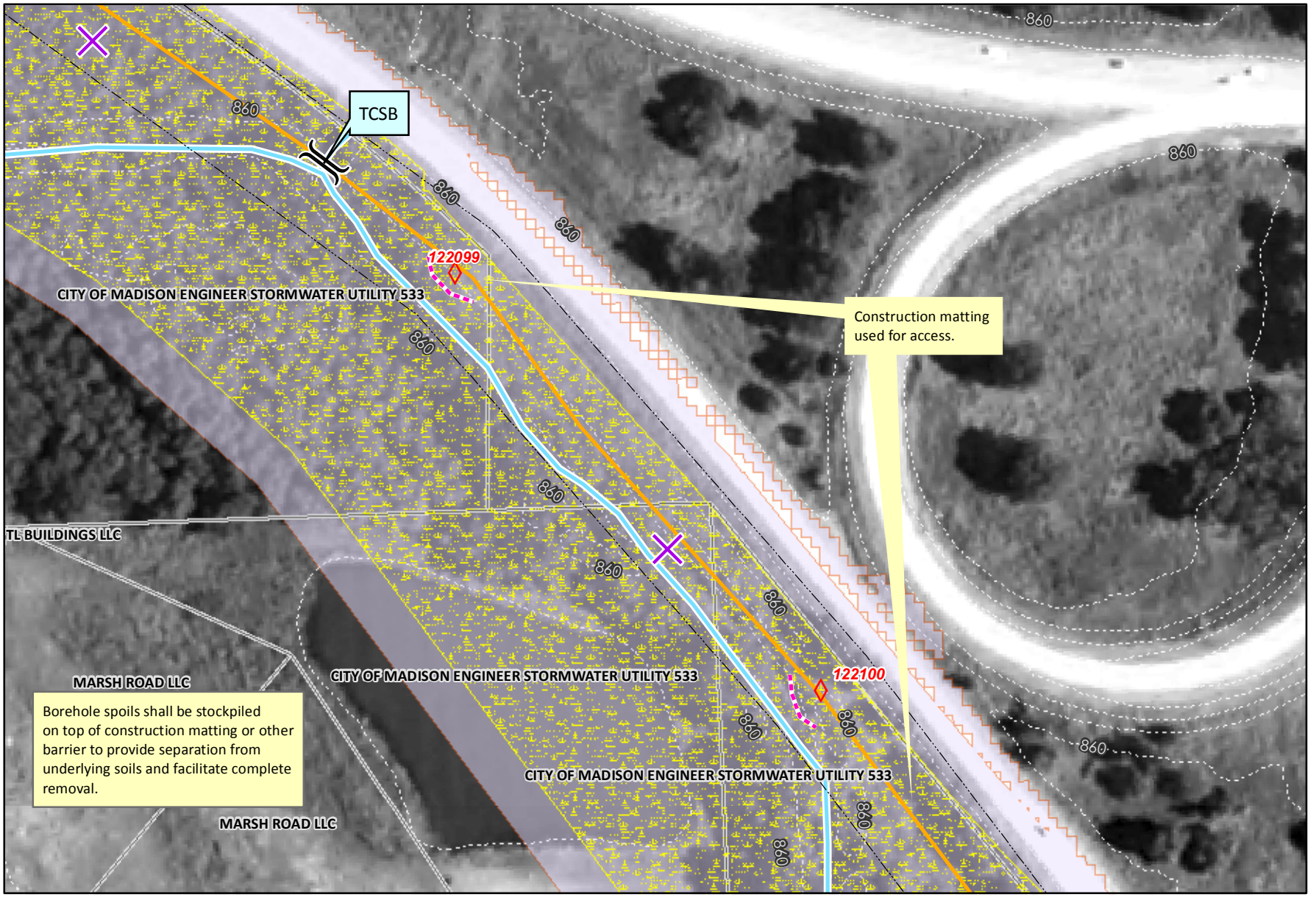


Proposed Pole	Erosion Control BMPs Required if Disturbed	TCSB
Right-of-Way		Wire Stringing Areas (~60' x 200')
Construction Access Path	Perimeter Control	Field-Delineated Waterway
Graded Structure Pads	Temporary Slope Breaks	Field-Delineated Wetland
Graded Construction Access	Vegetative Buffer	2-Foot Contours

DRAWN BY: DYL | CHECKED BY: BRN

MONTGOMERY ASSOCIATES: RESOURCE SOLUTIONS, LLC
119 SOUTH MAIN STREET| COTTAGE GROVE, 53527
(608) 839-4422 | www.ma-rs.org

SEGMENT B DETAILED EROSION CONTROL PLANS

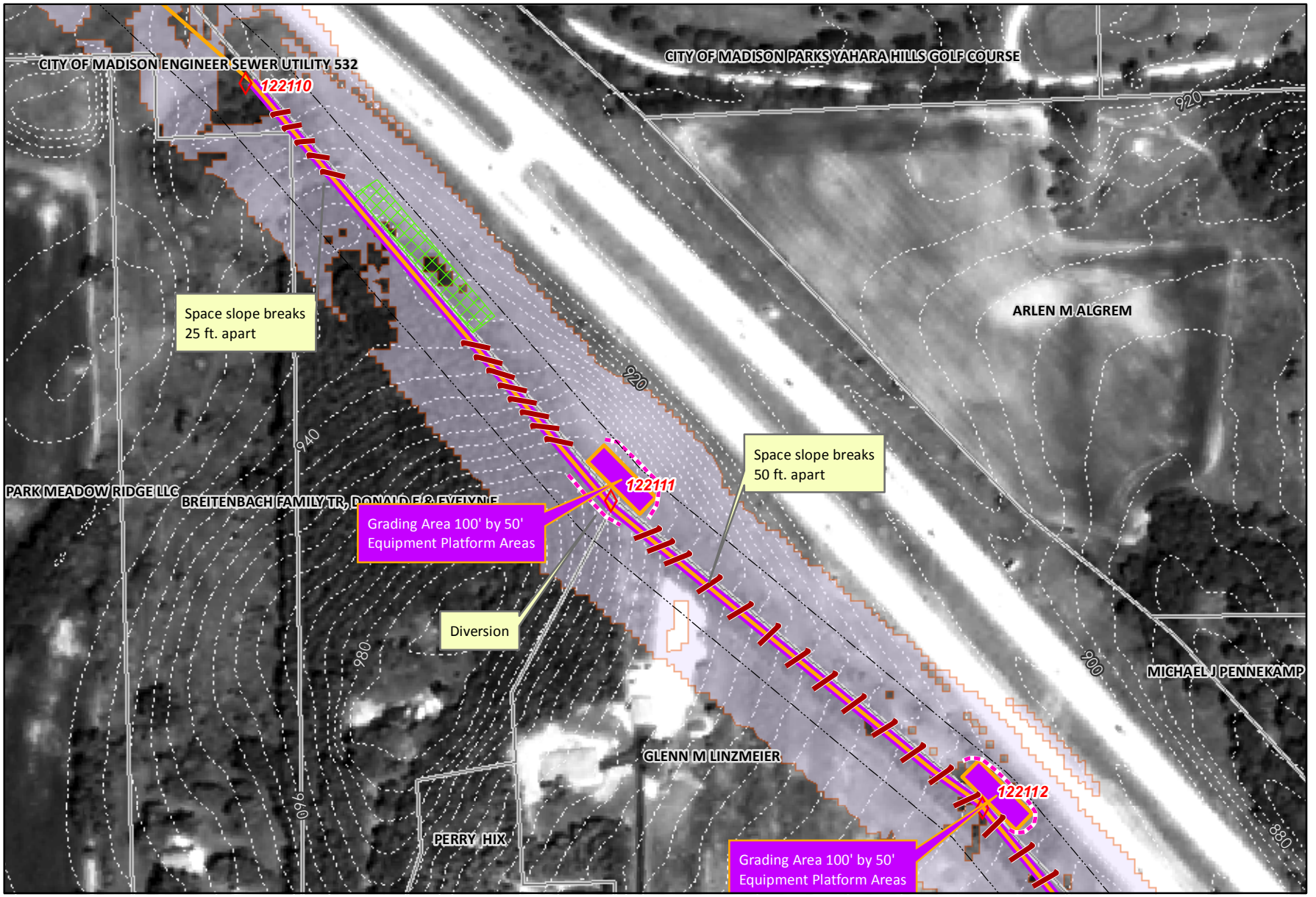
ROCKDALE TO WEST MIDDLETON TRANSMISSION LINE - SEGMENT B

0 75 150
Feet

SCALE: 1 inch = 150 feet

PROJECT NO.: 1362-037 | DATE: Aug 10, 2011

SHEET NO.: 4 of 9



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CHECKED BY: BRN

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SEGMENT B DETAILED EROSION CONTROL PLANS

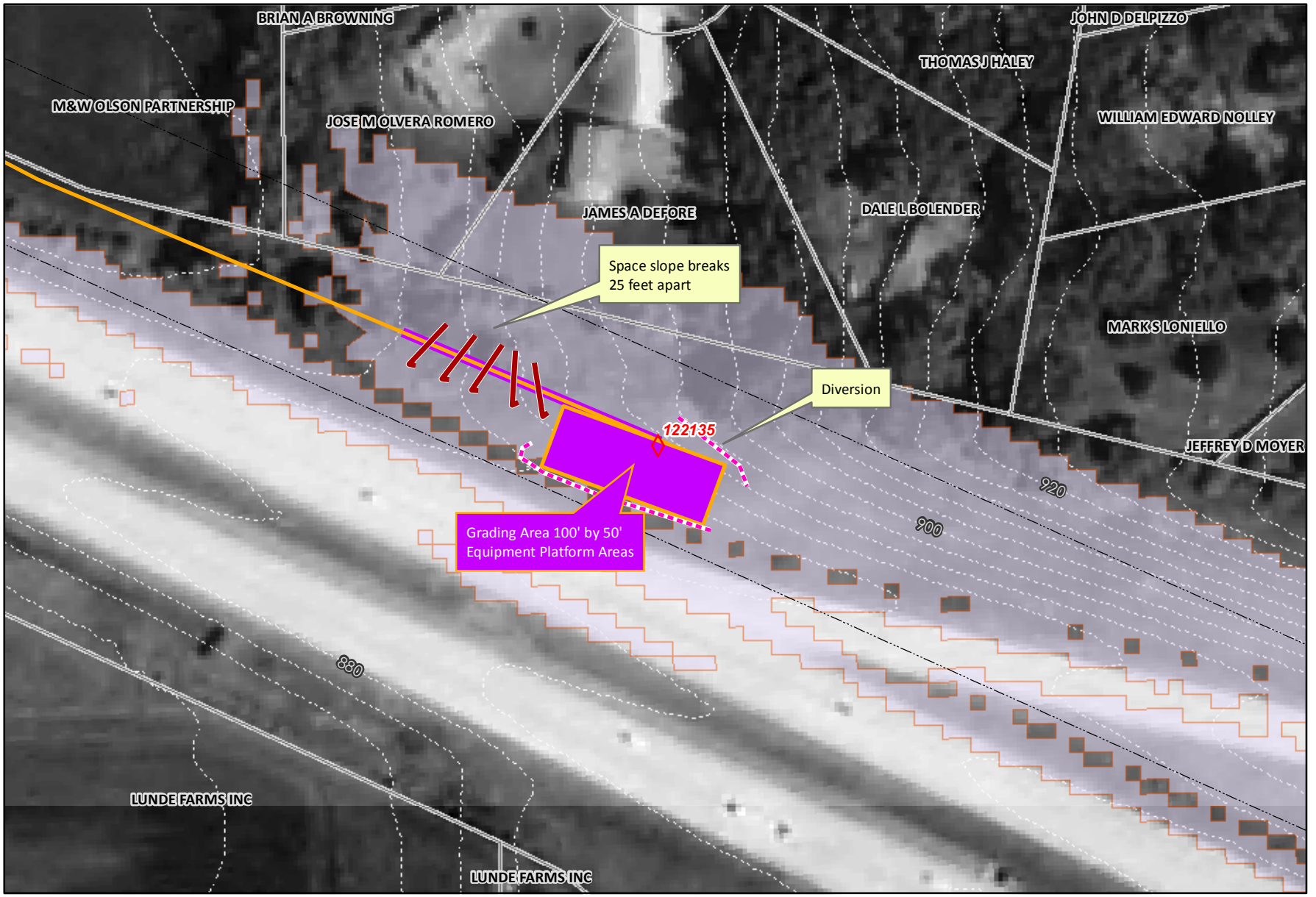
ROCKDALE TO WEST MIDDLETON TRANSMISSION LINE - SEGMENT B

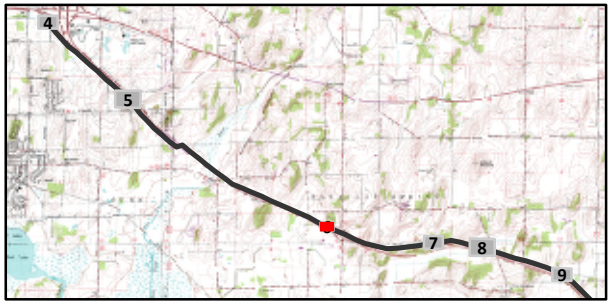
0 75 150
Feet

SCALE: 1 inch = 200 feet

PROJECT NO.: 1362-037
DATE: Aug 10, 2011

SHEET NO.: 5 of 9





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DRAWN BY	CHECKED BY
DYL	BRN

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SEGMENT B DETAILED EROSION CONTROL PLANS

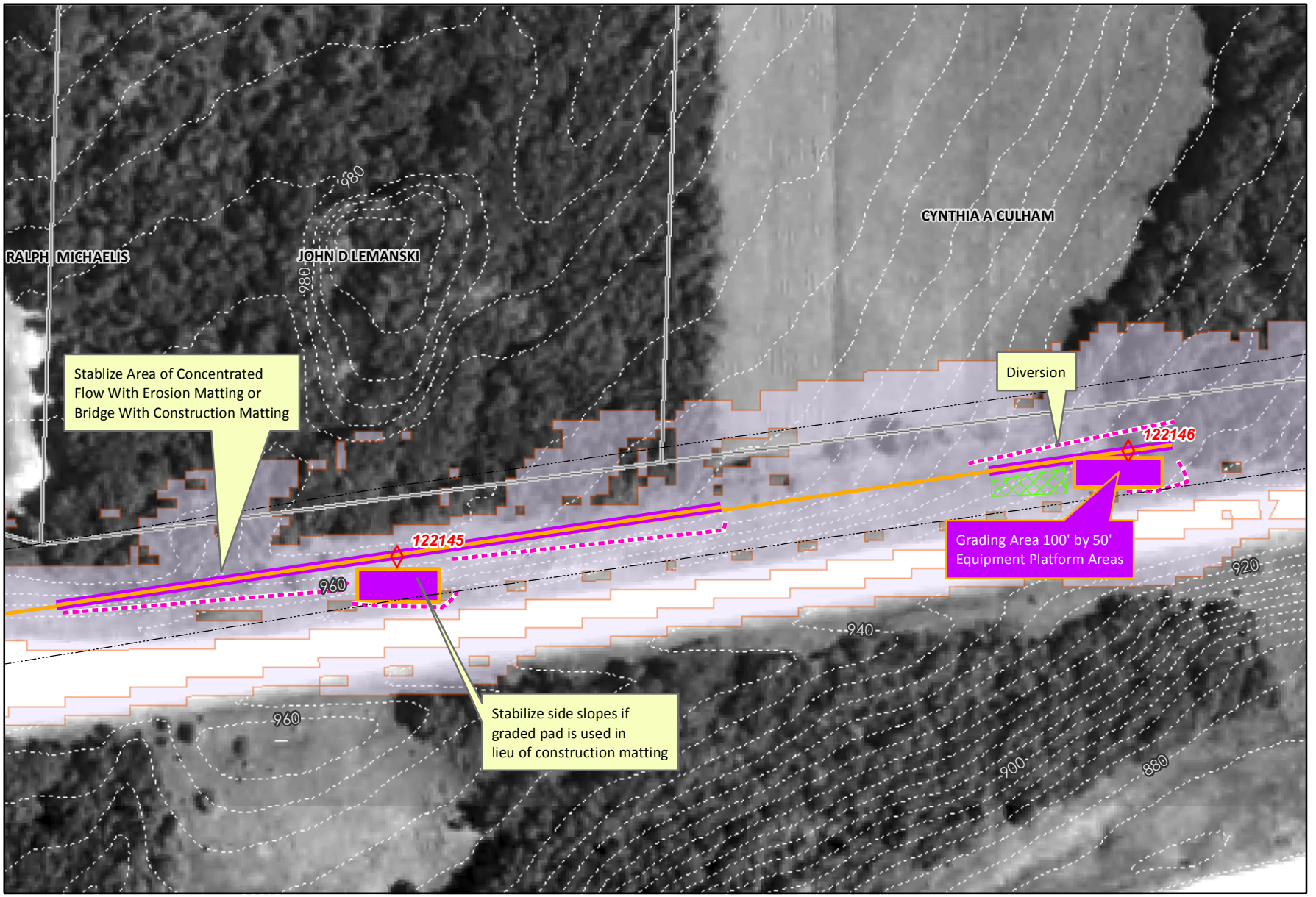
ROCKDALE TO WEST MIDDLETON TRANSMISSION LINE - SEGMENT B

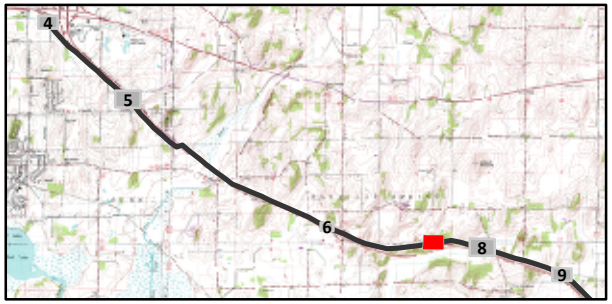
0 75 Feet

SCALE
1 inch = 100 feet

PROJECT NO.	DATE
1362-037	Aug 10, 2011

SHEET NO.
6 of 9





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SEGMENT B DETAILED EROSION CONTROL PLANS

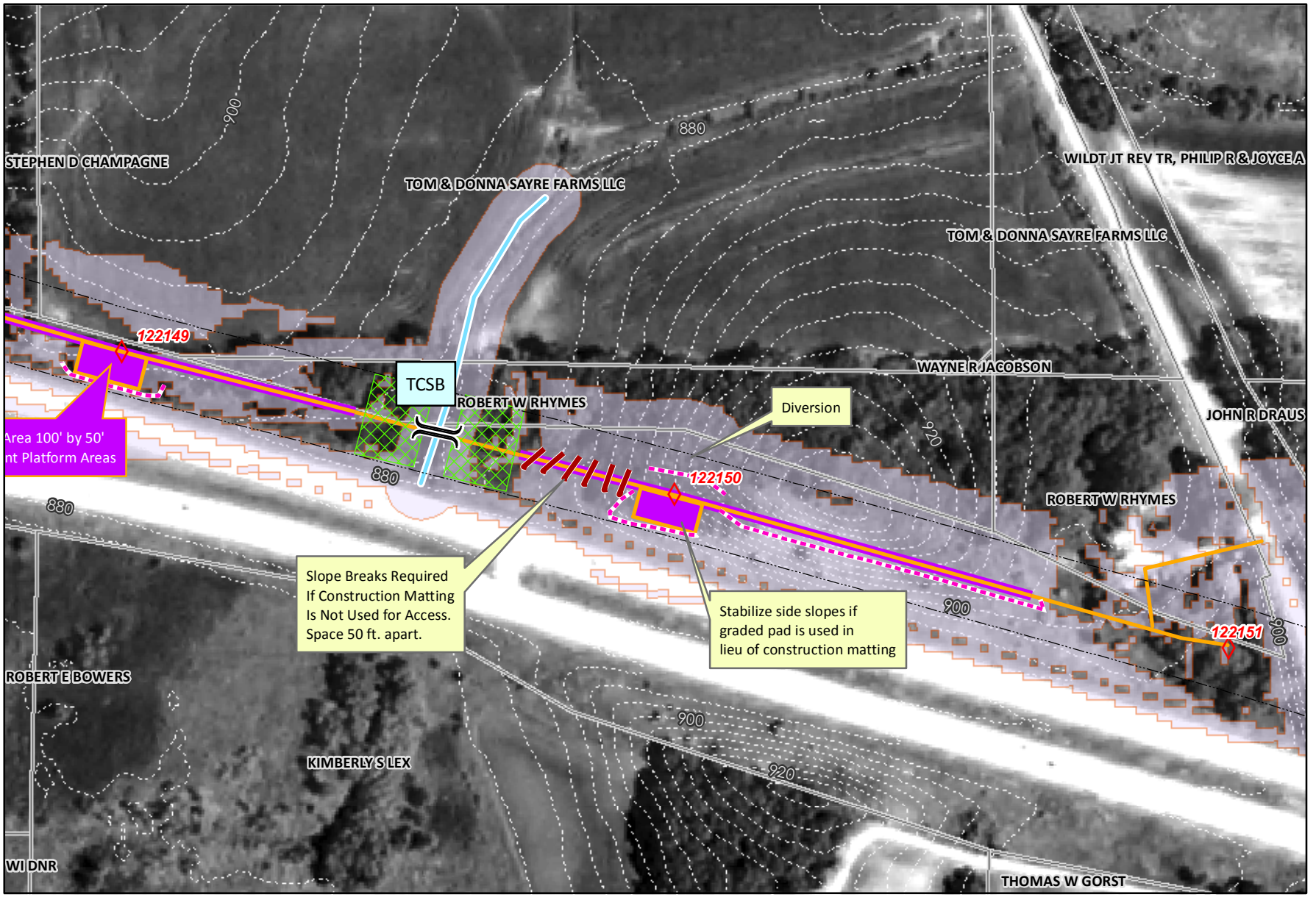
ROCKDALE TO WEST MIDDLETON TRANSMISSION LINE - SEGMENT B

0 75 150
Feet

SCALE: 1 inch = 150 feet

PROJECT NO.: 1362-037
DATE: Aug 10, 2011

SHEET NO.: 7 of 9



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DRAWN BY	CHECKED BY
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SEGMENT B DETAILED EROSION CONTROL PLANS

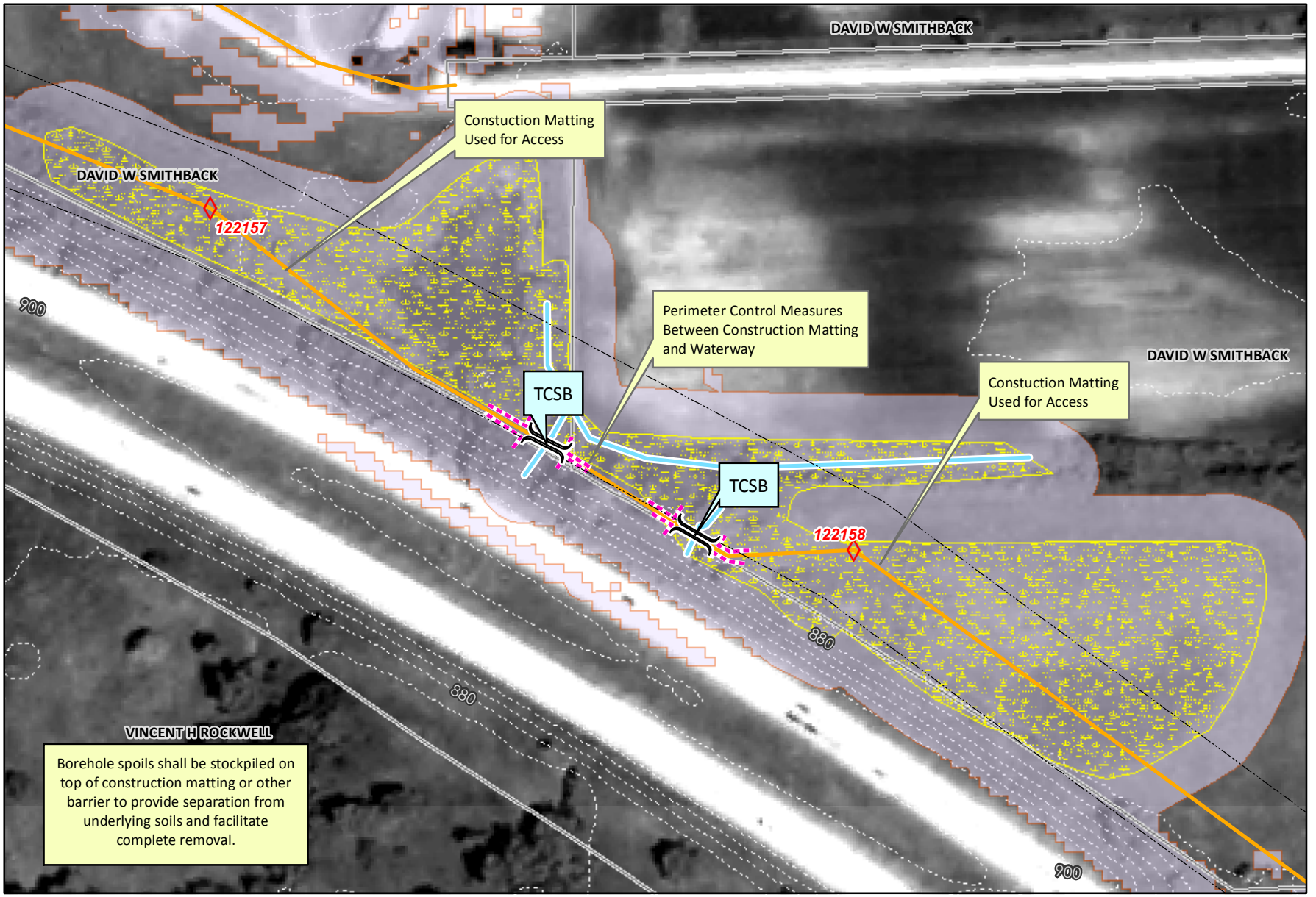
ROCKDALE TO WEST MIDDLETON TRANSMISSION LINE - SEGMENT B

0 75 150
Feet

SCALE
1 inch = 200 feet

PROJECT NO.	DATE
1362-037	Aug 10, 2011

SHEET NO.
8 of 9



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ROCKDALE TO WEST MIDDLETON TRANSMISSION LINE - SEGMENT B

0 75 150
Feet

SCALE: 1 inch = 150 feet

PROJECT NO.: 1362-037

DATE: Aug 10, 2011

SHEET NO.: 9 of 9

Segment B, Appendix B

Photographs of Wetlands and Waterways

8/26/2011

01. H(47)-W2 near 122099.JPG
10/21/2010

02. H(47)-W2 western area near 122100.JPG
10/21/2010

03. Upland inclusion within H(47)-W2.JPG
10/21/2010

04. Central area of H(47)-W2 facing south.JPG
10/21/2010

05. 122102 within H(47)-W2 facing south.JPG
10/21/2010

06. Central area of H(47)-W2 facing west.JPG
10/21/2010

07. Near 122103 within H(47)-W2 facing south.JPG
10/21/2010

08. Eastern extent of H(47)-W2 at 122104.JPG
10/21/2010

09. Location of 122105 within H(47)-W2.JPG
10/21/2010

10. Eastern edge of H(47)-W2 facing south.JPG
10/21/2010

11. B(65)-W1 facing west along WDOT ROW.JPG
10/21/2010

12. B(65)-W2 facing west.JPG
10/21/2010

13. B(65)-W2 facing south.JPG
10/21/2010

14. B(65)-W3 facing west near 122114.jpg
10/20/2010

15. B(65)-W4 view west.jpg
10/20/2010

16. B(65)-W4 view south.jpg
10/20/2010

17. B(120)-W1 view east.jpg
10/20/2010

18. B(65)-W5 view northeast.jpg
10/20/2010


19. B(65)-W5 view north near 122123.jpg
10/20/2010


20. B(65)-W5 view northwest.jpg
10/20/2010


21. B(65)-W6 view northwest.jpg
10/18/2010


22. B(65)-W6 view north.jpg
10/18/2010


23. B(65)-W7 view northeast from western side.jpg
10/18/2010


24. B(65)-W7 view northeast.jpg
10/18/2010


25. B(65)-W7 view northwest near 122132.jpg
10/18/2010


26. B(65)-W7 view west from east side.jpg
10/18/2010


27. B(65)-W9 V. NW.jpg
10/18/2010


28. B(65)-W9 V. NE.jpg
10/18/2010


29. B(65)-W10 view northeast near 122158.jpg
10/18/2010


30. B(65)-W10 facing northeast near 122157.jpg
10/18/2010

31. Eastern side of B(65)-W10 view NW.jpg
10/18/2010

32. B(65)-W10a facing north along waterway.JPG
08/17/2011

33. Wet meadow portion of B(65)-W10a facing east.JPG
08/17/2011

34. B(65)-W11 facing south at culvert.jpg
10/18/2010

35. B(65)-W11 facing northeast from west side.jpg
10/18/2010

36. B(65)-W11 facing northeast.jpg
10/18/2010

37. B(65)-W12 V. SE taken near structure 122163.jpg
10/18/2010

38. B(65)-W12 V. E.jpg
10/18/2010

39. B(65)-W12 V. NE.jpg
10/18/2010

01. B(120)-R2 facing west.JPG
10/21/2010

02. B(120)-R2 south of DOT fence.JPG
10/21/2010

03. B(120)-R2 facing south.JPG
10/21/2010

04. B65-R1 view W_2.jpg
04/05/2011

05. B65-R1 view S.jpg
04/05/2011

06. B(65)-R3 V. N.jpg
10/18/2010

07. B(65)-R3 V. S.jpg
10/18/2010

08. B(65)-R4 facing north.JPG

09. B(65)-R5 (W) V. S.jpg
10/18/2010

10. B(65)-R5 (W) V. N.jpg
10/18/2010

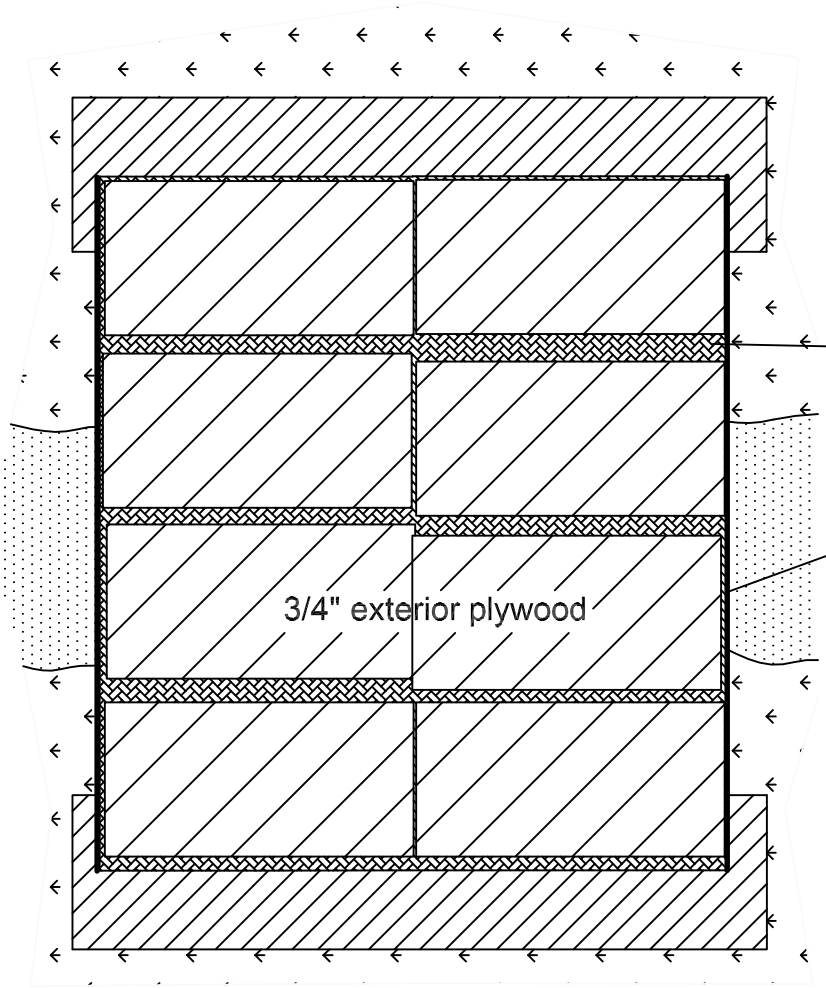
11. B(65)-R5 (E) V. S.jpg
10/18/2010

12. B(65)-R5 (E) V. N.jpg
10/18/2010

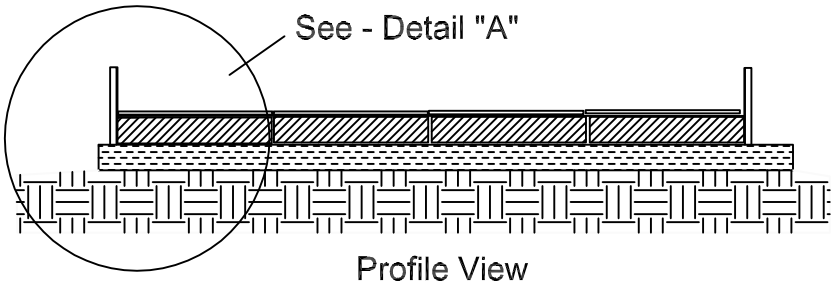
Segment B, Appendix C

TCSB Plan and Profile Figures

8/26/2011

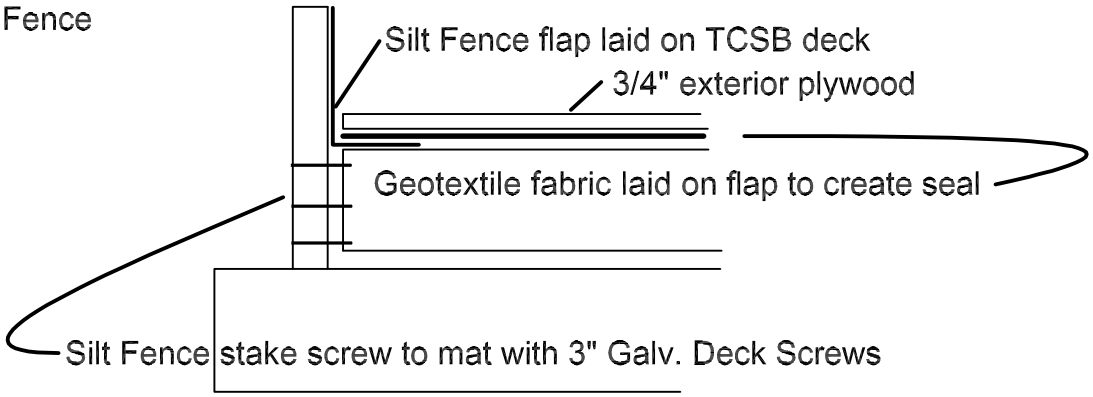


Plan View

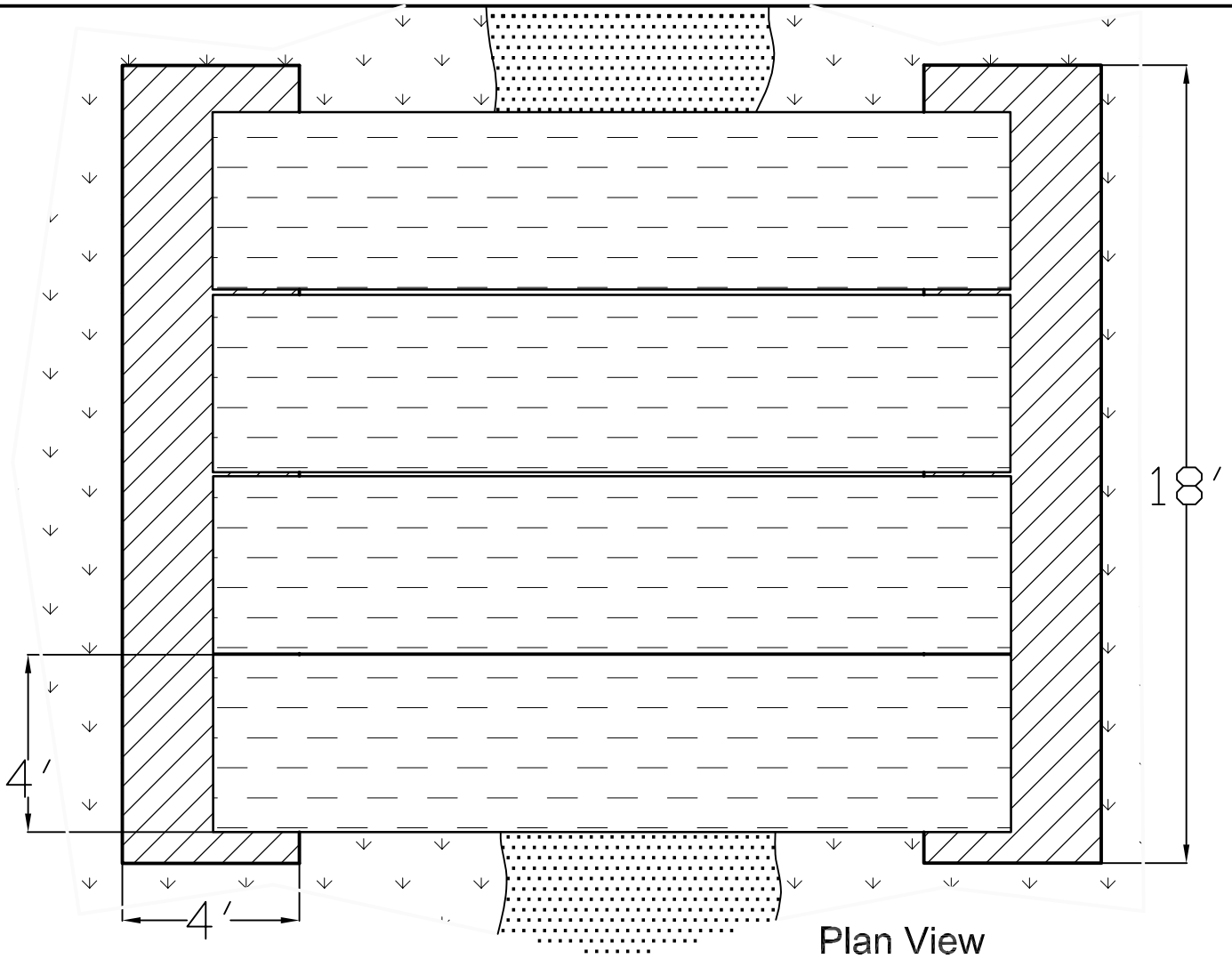


Profile View

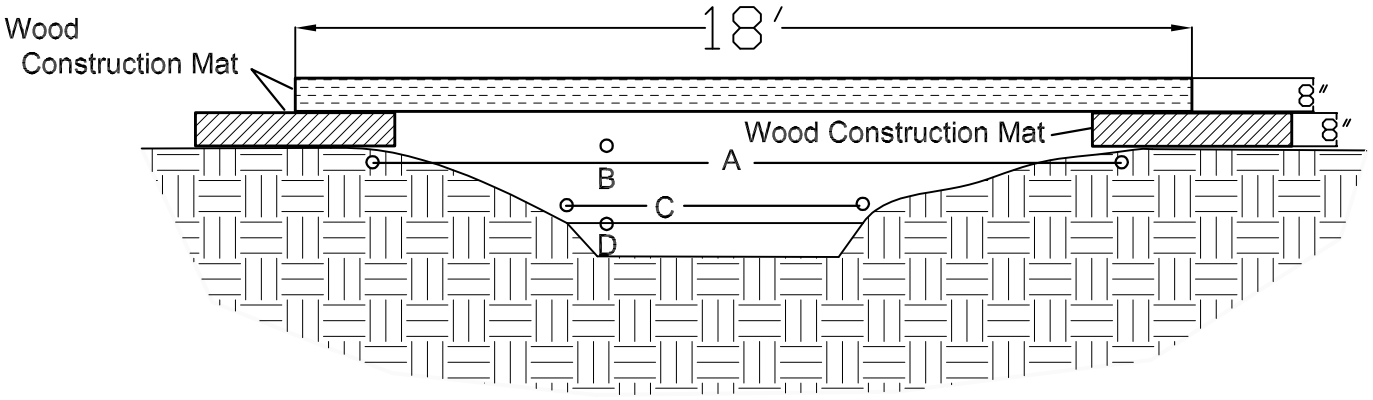
Detail "A"



American Transmission Company - Rockdale to West Middleton Project	
Debris Containment for TCSB - Typical	Not to Scale
November 24, 2010 Drawn; PTC JZ Environmental Consulants Inc. PO Box 2068 Kingsford, MI 49802	



Plan View



Profile View

TCSB Feature ID - B(120)-R2	
A	Bank Width - 4 ft.
B	Bank Height - 1 ft.
C	Water Width - 2 ft.
D	Water Depth - .5 ft.

American Transmission Company - Rockdale to West Middleton Project

Date November 17, 2010 Not to Scale Drawn by; PTC

JZ Environmental Consulants Inc. PO Box 2068 Kingsford, MI 49802

The overhead view shows Steel I-Beam placement without wood mats over the top.
Each beam is constructed of two beams that are 35' long 12" wide and 16" high

Wood Construction Mat

Profile View

American Transmission Company - Rockdale to West Middleton Project

Date April 13, 2011 | Not to Scale | Drawn by; PTC

JZ Environmental Consulants Inc. PO Box 2068 Kingsford, MI 49802

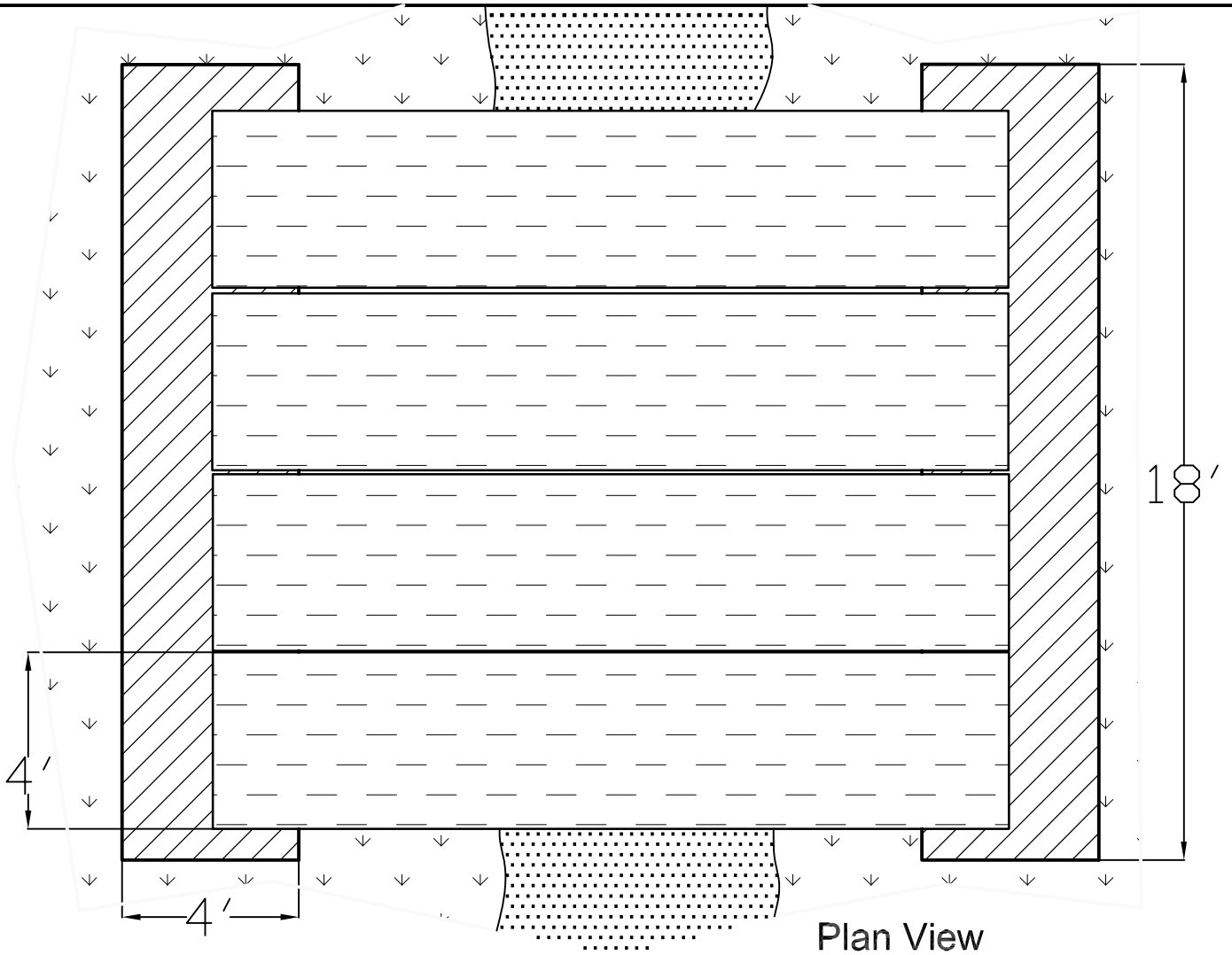
TCSB Feature ID - B(65)-R1

A Bank Width - 26.5 ft.

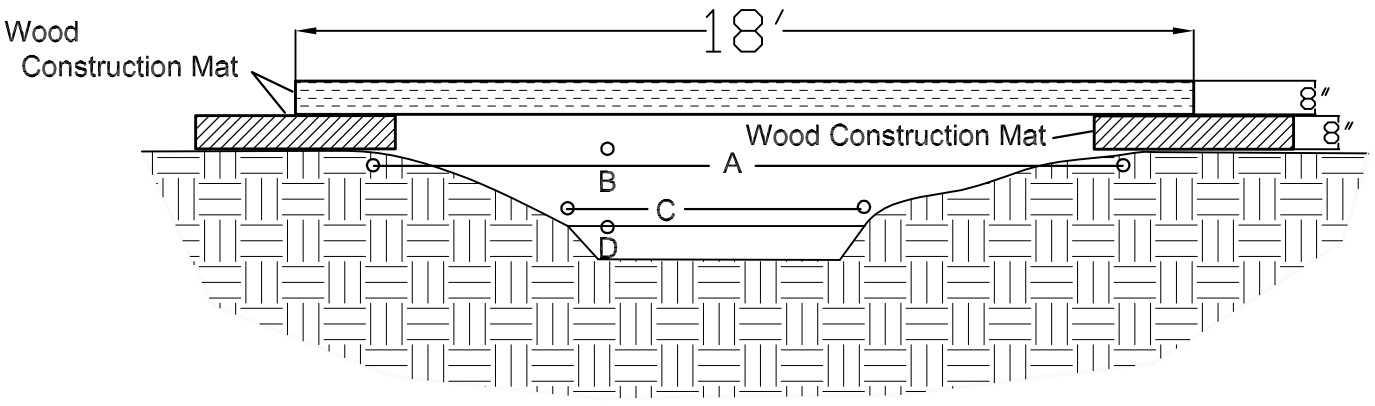
B Bank Height - 4 ft.

C Water Width - 21 ft.

D Water Depth - 1 ft.

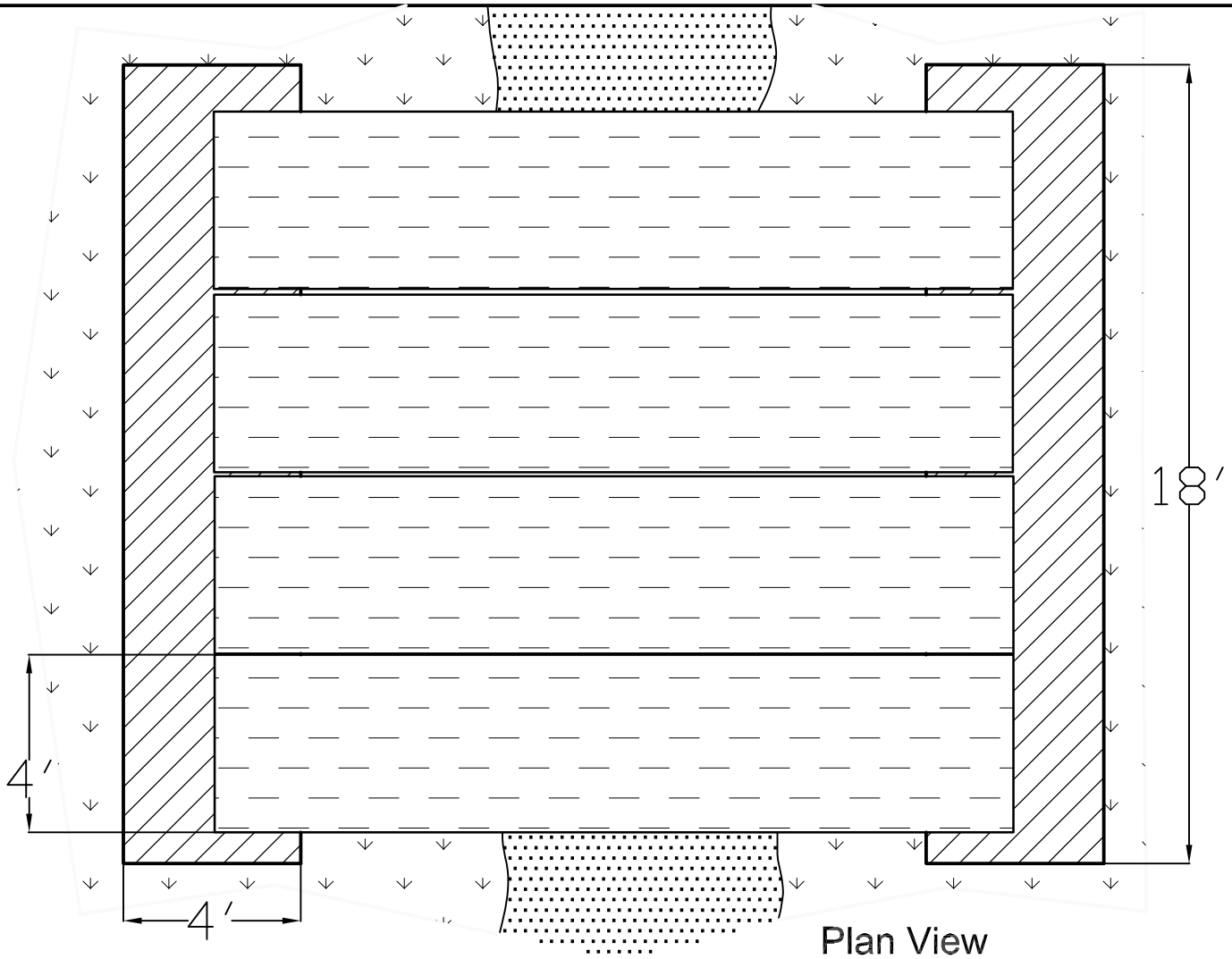


Plan View

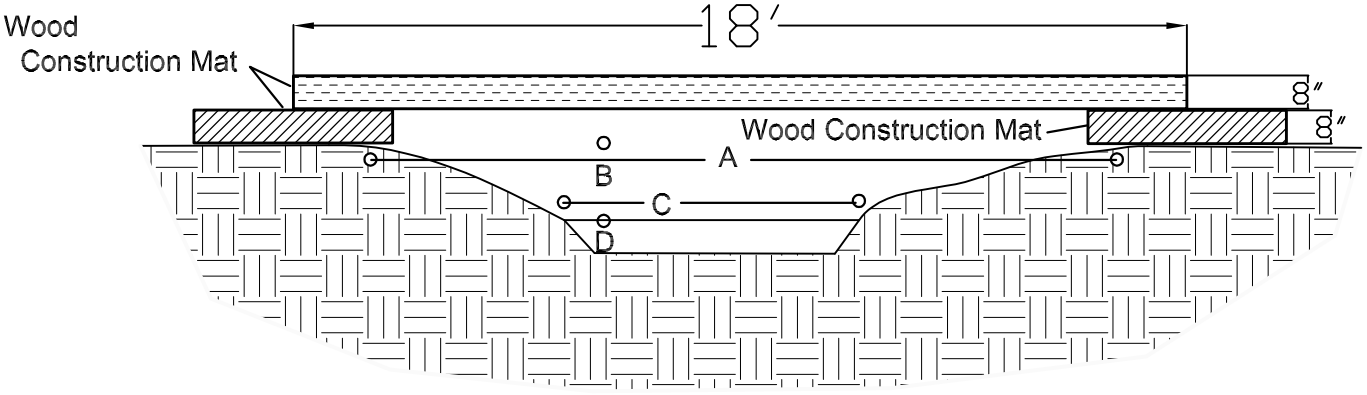


Profile View

TCSB Feature ID - B(65)-R3	
A Bank Width - 7 ft.	American Transmission Company - Rockdale to West Middleton Project
B Bank Height - 1 ft.	Date November 17, 2010 Not to Scale Drawn by; PTC
C Water Width - 6 ft.	
D Water Depth - 1 ft.	JZ Environmental Consulants Inc. PO Box 2068 Kingsford, MI 49802



Plan View



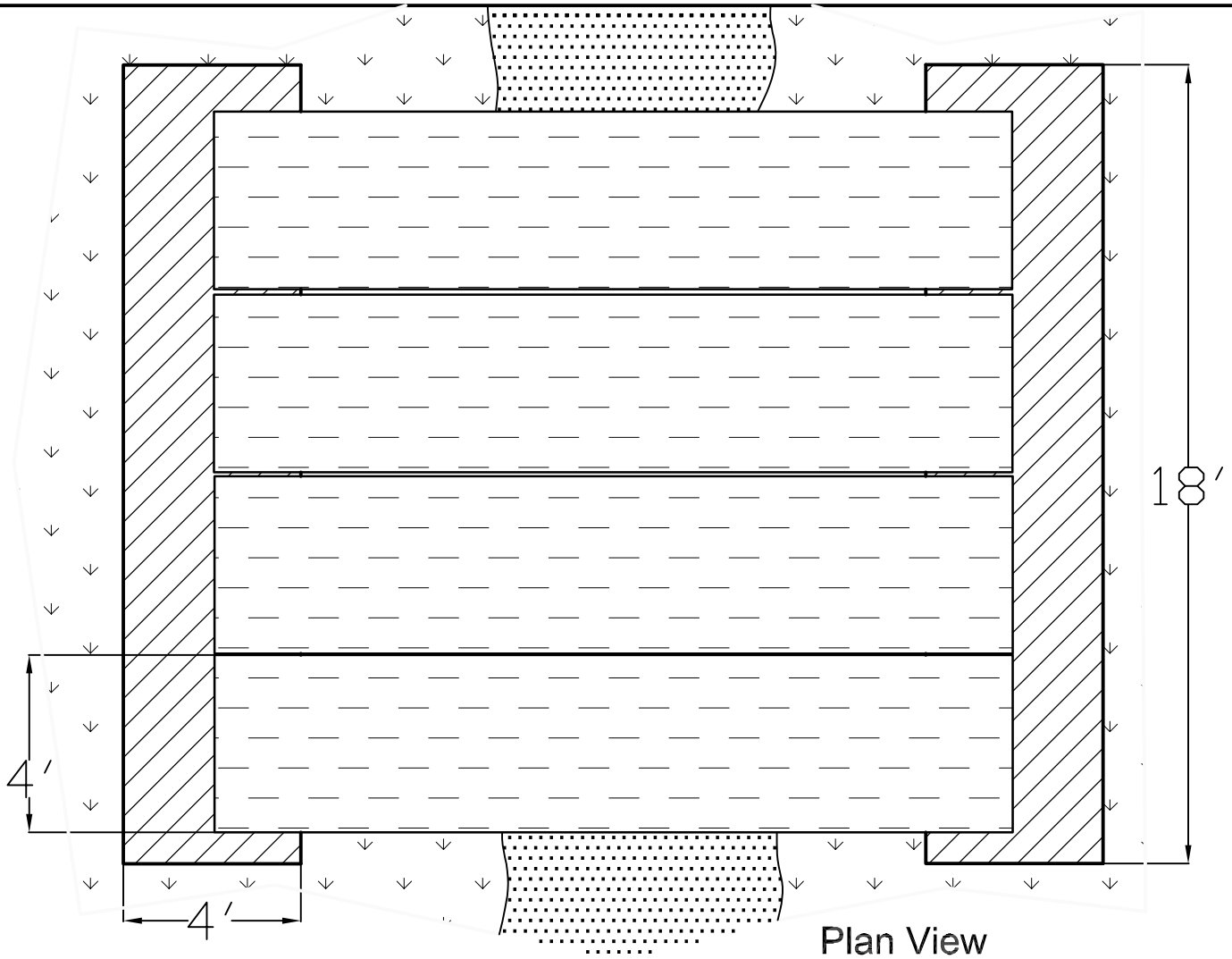
Profile View

TCSB Feature ID - B(65)-R4	
A	Bank Width - <15 ft.
B	Bank Height - 1 ft.
C	Water Width - 6-8 ft.
D	Water Depth - 1 ft.

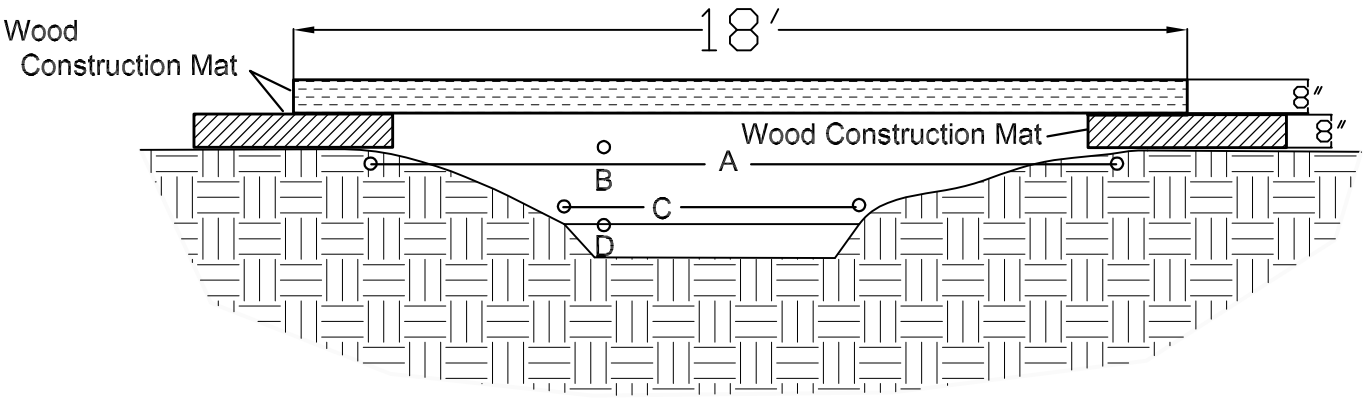
American Transmission Company - Rockdale to West Middleton Project

Date November 17, 2010 Not to Scale Drawn by; PTC

JZ Environmental Consulants Inc. PO Box 2068 Kingsford, MI 49802



Plan View



Profile View

TCSB Feature ID - B(65)-R5 (2 locations)	
A	Bank Width - <10 ft.
B	Bank Height - 2 ft.
C	Water Width - 4 ft.
D	Water Depth - 1 ft.

American Transmission Company - Rockdale to West Middleton Project

Date November 17, 2010 Not to Scale Drawn by; PTC

JZ Environmental Consulants Inc. PO Box 2068 Kingsford, MI 49802

Segment B, Appendix D

Approved Waivers of Seasonal Limitations for TCSB's

8/26/2011

Request Form for Waiver of Construction Season Limits in Waterway General Permits

This form shall be used to request a waiver from the time period restrictions in NR 320 through NR 345, Wisconsin Administrative Code, for applicable projects that qualify for a General Permit under Chapter 30, Wisconsin Statutes. The completed waiver form shall be submitted with any General Permit application where the applicant seeks a waiver from the applicable permit conditions that places time period restrictions on the project. The Department signature on this form only waives the time period restrictions, and does not constitute a permit, approval, or other concurrence with the proposed project.

Applicant Name: AMERICAN TRANSMISSION COMPANY

Proposed Project: ROCKDALE TO WEST MIDDLETON TRANSMISSION LINE

Project Location: NE ¼, SW ¼, Section 26, Town 07 N, Range 10 E/~~W~~

Name of Waterbody: UNNAMED TRIBUTARY TO YAHARA RIVER, B(120)-R2

County of Waterbody: DANE

FOR DNR USE ONLY

The applicant listed above has consulted with me about their proposed project in navigable waters. Based on their project description, plans and other existing information available to me, I find that:

☐ there is suitable habitat at or near the proposed project, or
☐ there may be an impact on spawning fish or spawning activities.

Or

☑ there is no suitable habitat at or near the proposed project, or
☐ there will be no impact on spawning fish or spawning activities.

Consequently, the time period restrictions of the applicable administrative code are/~~are not~~ (circle one) necessary to protect fish spawning for the proposed project and I approve/disapprove (circle one) this waiver.

Signed by:

Kurt Welke — Department Fisheries Biologist

6-11-11 — Date

Request Form for Waiver of Construction Season Limits in Waterway General Permits

This form shall be used to request a waiver from the time period restrictions in NR 320 through NR 345, Wisconsin Administrative Code, for applicable projects that qualify for a General Permit under Chapter 30, Wisconsin Statutes. The completed waiver form shall be submitted with any General Permit application where the applicant seeks a waiver from the applicable permit conditions that places time period restrictions on the project. The Department signature on this form only waives the time period restrictions, and does not constitute a permit, approval, or other concurrence with the proposed project.

Applicant Name: AMERICAN TRANSMISSION COMPANY

Proposed Project: ROCKDALE TO WEST MIDDLETON TRANSMISSION LINE

Project Location: NW ¼, SE ¼, Section 26, Town 07 N, Range 10 E/~~W~~

Name of Waterbody: Unnamed tributary to Yahara River, B(65)-R1

County of Waterbody: DANE

FOR DNR USE ONLY

The applicant listed above has consulted with me about their proposed project in navigable waters. Based on their project description, plans and other existing information available to me, I find that:

☐ there is suitable habitat at or near the proposed project, or
☐ there may be an impact on spawning fish or spawning activities.

Or

☐ there is no suitable habitat at or near the proposed project, or
☑ there will be no impact on spawning fish or spawning activities.

Consequently, the time period restrictions of the applicable administrative code ~~are~~/are not (circle one) necessary to protect fish spawning for the proposed project and I approve/~~disapprove~~ (circle one) this waiver.

Signed by:

Department Fisheries Biologist — Date: 6-11-11

Request Form for Waiver of Construction Season Limits in Waterway General Permits

This form shall be used to request a waiver from the time period restrictions in NR 320 through NR 345, Wisconsin Administrative Code, for applicable projects that qualify for a General Permit under Chapter 30, Wisconsin Statutes. The completed waiver form shall be submitted with any General Permit application where the applicant seeks a waiver from the applicable permit conditions that places time period restrictions on the project. The Department signature on this form only waives the time period restrictions, and does not constitute a permit, approval, or other concurrence with the proposed project.

Applicant Name: AMERICAN TRANSMISSION COMPANY

Proposed Project: ROCKDALE TO WEST MIDDLETON TRANSMISSION LINE

Project Location: SE ¼, SE ¼, Section 05, Town 06 N, Range 11 E/~~W~~

Name of Waterbody: UNNAMED TRIBUTARY TO LAKE KEGONSA, B(65)-R3

County of Waterbody: DANE

FOR DNR USE ONLY

The applicant listed above has consulted with me about their proposed project in navigable waters. Based on their project description, plans and other existing information available to me, I find that:

☐ there is suitable habitat at or near the proposed project, or
☐ there may be an impact on spawning fish or spawning activities.

Or

☐ there is no suitable habitat at or near the proposed project, or
☑ there will be no impact on spawning fish or spawning activities.

Consequently, the time period restrictions of the applicable administrative code are/~~are not~~ (circle one) necessary to protect fish spawning for the proposed project and I approve/disapprove (circle one) this waiver.

Signed by:

Kurt Welke — Department Fisheries Biologist

6-11-11 — Date

Request Form for Waiver of Construction Season Limits in Waterway General Permits

This form shall be used to request a waiver from the time period restrictions in NR 320 through NR 345, Wisconsin Administrative Code, for applicable projects that qualify for a General Permit under Chapter 30, Wisconsin Statutes. The completed waiver form shall be submitted with any General Permit application where the applicant seeks a waiver from the applicable permit conditions that places time period restrictions on the project. The Department signature on this form only waives the time period restrictions, and does not constitute a permit, approval, or other concurrence with the proposed project.

Applicant Name: AMERICAN TRANSMISSION COMPANY

Proposed Project: ROCKDALE TO WEST MIDDLETON TRANSMISSION LINE

Project Location: NW ¼, SW ¼, Section 11, Town 06 N, Range 11 E/~~W~~

Name of Waterbody: UNNAMED TRIBUTARY TO YAHARA RIVER, B(65)-R4

County of Waterbody: DANE

FOR DNR USE ONLY

The applicant listed above has consulted with me about their proposed project in navigable waters. Based on their project description, plans and other existing information available to me, I find that:

☐ there is suitable habitat at or near the proposed project, or
☐ there may be an impact on spawning fish or spawning activities.

Or

☐ there is no suitable habitat at or near the proposed project, or
☑ there will be no impact on spawning fish or spawning activities.

Consequently, the time period restrictions of the applicable administrative code are/~~are not~~ (circle one) necessary to protect fish spawning for the proposed project and I ~~approve~~/disapprove (circle one) this waiver.

Signed by:

Department Fisheries Biologist — Date: 6-11-11

Request Form for Waiver of Construction Season Limits in Waterway General Permits

This form shall be used to request a waiver from the time period restrictions in NR 320 through NR 345, Wisconsin Administrative Code, for applicable projects that qualify for a General Permit under Chapter 30, Wisconsin Statutes. The completed waiver form shall be submitted with any General Permit application where the applicant seeks a waiver from the applicable permit conditions that places time period restrictions on the project. The Department signature on this form only waives the time period restrictions, and does not constitute a permit, approval, or other concurrence with the proposed project.

Applicant Name: AMERICAN TRANSMISSION COMPANY

Proposed Project: ROCKDALE TO WEST MIDDLETON TRANSMISSION LINE

Project Location: SE ¼, SW ¼, Section 12, Town 06 N, Range 11 E/~~W~~

Name of Waterbody: UNNAMED TRIBUTARY TO MUD CREEK, B(65)-R5

County of Waterbody: DANE

FOR DNR USE ONLY

The applicant listed above has consulted with me about their proposed project in navigable waters. Based on their project description, plans and other existing information available to me, I find that:

☐ there is suitable habitat at or near the proposed project, or
☐ there may be an impact on spawning fish or spawning activities.

Or

☐ ~~there~~ is no suitable habitat at or near the proposed project, or
☑ ~~there~~ will be no impact on spawning fish or spawning activities.

Consequently, the time period restrictions of the applicable administrative code are/~~are not~~ (circle one) necessary to protect fish spawning for the proposed project and I approve/~~disapprove~~ (circle one) this waiver.

Signed by:

K A Wells — Department Fisheries Biologist

6-11-12 — Date

Request Form for Waiver of Construction Season Limits in Waterway General Permits

This form shall be used to request a waiver from the time period restrictions in NR 320 through NR 345, Wisconsin Administrative Code, for applicable projects that qualify for a General Permit under Chapter 30, Wisconsin Statutes. The completed waiver form shall be submitted with any General Permit application where the applicant seeks a waiver from the applicable permit conditions that places time period restrictions on the project. The Department signature on this form only waives the time period restrictions, and does not constitute a permit, approval, or other concurrence with the proposed project.

Applicant Name: AMERICAN TRANSMISSION COMPANY

Proposed Project: ROCKDALE TO WEST MIDDLETON TRANSMISSION LINE

Project Location: SW ¼, SE ¼, Section 12, Town 06 N, Range 11 E/~~W~~

Name of Waterbody: UNNAMED TRIBUTARY TO MUD CREEK, B(65)-R5

County of Waterbody: DANE

FOR DNR USE ONLY

The applicant listed above has consulted with me about their proposed project in navigable waters. Based on their project description, plans and other existing information available to me, I find that:

☐ there is suitable habitat at or near the proposed project, or
☐ there may be an impact on spawning fish or spawning activities.

Or

☑ there is no suitable habitat at or near the proposed project, or
☑ there will be no impact on spawning fish or spawning activities.

Consequently, the time period restrictions of the applicable administrative code ~~are~~/are not (circle one) necessary to protect fish spawning for the proposed project and I approve/~~disapprove~~ (circle one) this waiver.

Signed by:

Department Fisheries Biologist — Date: 6-11-11

Segment B, Appendix E

Wetland Summary Table

8/26/2011

Appendix E. Summary of Pre-Construction Wetland Characteristics along Segment B
American Transmission Company - Rockdale to West Middleton Project

Wetland ID	EAP Map Page	Structures	Community Descriptions	Other Comments	Photos
H47-W2	B-1, B-2, B-3	122099 - 122104	This is an extensive wetland complex comprised of forested wetland and wet meadow communities. The eastern third is primarily wet meadow dominated by reed canary grass with scattered patches of box elder and narrow-leaved cattail. The western two-thirds is primarily a forested wetland complex with small areas of wet meadow. The dominant tree species include box elder and cottonwood, with scattered silver maple. Some of the forested areas contain a thick understory of box elder and common buckthorn shrubs; reed canary grass and stinging nettle are occasionally present. Other vegetation within or adjcent to the western area includes wild parsnip, riverbank grape, and wild black currant. Some areas within the central portion of the wetland are topographically higher and dominated by Canada goldenrod, Kentucky bluegrass, and brome grass which suggest upland conditions.	Upland inclusions are present throughought the wetland complex. Portions of the waterway H(47)-R3 have large earthen embankments/ditch spoils located along the edge. Significant portions of the wetland contain extensive stands of common buckthorn and honeysuckle shrubs.	Photos 01 - 10

Appendix E. Summary of Pre-Construction Wetland Characteristics along Segment B
American Transmission Company - Rockdale to West Middleton Project

Wetland ID	EAP Map Page	Structures	Community Descriptions	Other Comments	Photos
B65-W1	B-3	None	This is a small depressional wet meadow located in a roadside ditch. Dominant species include reed canary grass and narrow leaved cattail.	None	Photo 11
B65-W2	B-3	None	This is a small depressional wet meadow partially located in an agricultural field. Reed canary grass and fall panicum are dominant with patches of narrow-leaved cattail also present.	None	Photos 12 and 13
B65-W3	B-4	None	This feature is comprised primarily of shallow marsh (in eastern two-thirds) and forested wetland (western third) communities. Shallow marsh is mostly open water with pockets of narrow-leaved cattail. Forested wetland dominants include black willow, box elder and cottonwood with an understory of reed canary grass and buckthorn.	None	Photo 14
B65-W4	B-5	None	This feature consists of a large open water pond fringed by reed canary grass with lesser amounts of stinging nettle.	None	Photos 15 and 16
B120-W1	B-5	None	This feature is comprised of a wet meadow community surrounded by forested wetland. Reed canary grass is dominant in the wet meadow while box elder, green ash, and silver maple are common in the forested community.	None	Photo 17

Appendix E. Summary of Pre-Construction Wetland Characteristics along Segment B
American Transmission Company - Rockdale to West Middleton Project

Wetland ID	EAP Map Page	Structures	Community Descriptions	Other Comments	Photos
B65-W5	B-6, B-7	122123	This is a large wetland complex comprised primarily of a wet meadow community although small areas of shrub-carr are interspersed throughout. The wet meadow is dominated by reed canary grass while shrub-carr dominants include box elder (primarly at eastern end) and sandbar willow (primarily at the western end).	None	Photos 18 - 20
B65-W6	B-8	None	This feature is a small wet meadow community located within DOT ROW. Reed canary grass is dominant with lesser amounts of black willow, stinging nettle and reed canary grass.	None	Photos 21 and 22
B65-W7	B-9	122132	This wetland is comprised of wet meadow, shrub-carr, and forested communities. Wet meadow and shrub-carr communities are intermixed and located in the eastern two-thirds. The dominant wet meadow species is reed canary grass while box elder, green ash, and gray dogwood are common in the shrub-carr community. A forested wetland is located in the western third of the feature; dominants include cottonwood, box elder, and gray dogwood.	None	Photos 23 - 26

Appendix E. Summary of Pre-Construction Wetland Characteristics along Segment B
American Transmission Company - Rockdale to West Middleton Project

Wetland ID	EAP Map Page	Structures	Community Descriptions	Other Comments	Photos
B65-W9	B-14	None	This feature is primarily a wet meadow dominated by reed canary grass. Distinct slopes and oak woodlands define the east and west boundaries.	None	Photos 27 and 28
B65-W10	B-15	122157, 122158	The wetland is comprised primarily of wet meadow and forested communities. The wet meadow is located in the southeast half of the feature and is dominated by reed canary grass and narrow-leaved cattail. A mixed wetland forest / wet meadow is located in the northwest half of the feature. Wetland forest dominants include box elder, silver maple, and green ash with an understory of buckthorn; reed canary grass is dominant in the wet meadow component which fringes an open water pond. Sandbar willow occupies the transition between the two wetland halves.	None	Photos 29 - 31
B65-W10a	B-15	122159	Primarily a degraded wet meadow dominated by reed canary grass, with a forested fringe of black willow and eastern cottonwood trees adjacent to the waterway	None	Photos 32 and 33

Appendix E. Summary of Pre-Construction Wetland Characteristics along Segment B
American Transmission Company - Rockdale to West Middleton Project

Wetland ID	EAP Map Page	Structures	Community Descriptions	Other Comments	Photos
B65-W11	B-16	None	Primarily a wet meadow community within a shallow valley. The WDOT ROW is dominated by reed canary grass; while reed canary grass, bull thistle, and brome grass are dominant at the northeast side of the corridor. Box elder is common in the northeast corner.	None	Photos 34 - 36
B65-W12	B-17	None	Primarily a wet meadow community dominanted by reed canary grass; scattered box elder trees and buckthorn shrubs are present along the fence row. The north and eastern extents of the wetland are bordered by an agricultural field.	Open water at northwest side of ROW.	Photos 37 - 39

Segment B, Appendix F

Typical ATC Seed Mixes (see Segment A, Appendix F)