

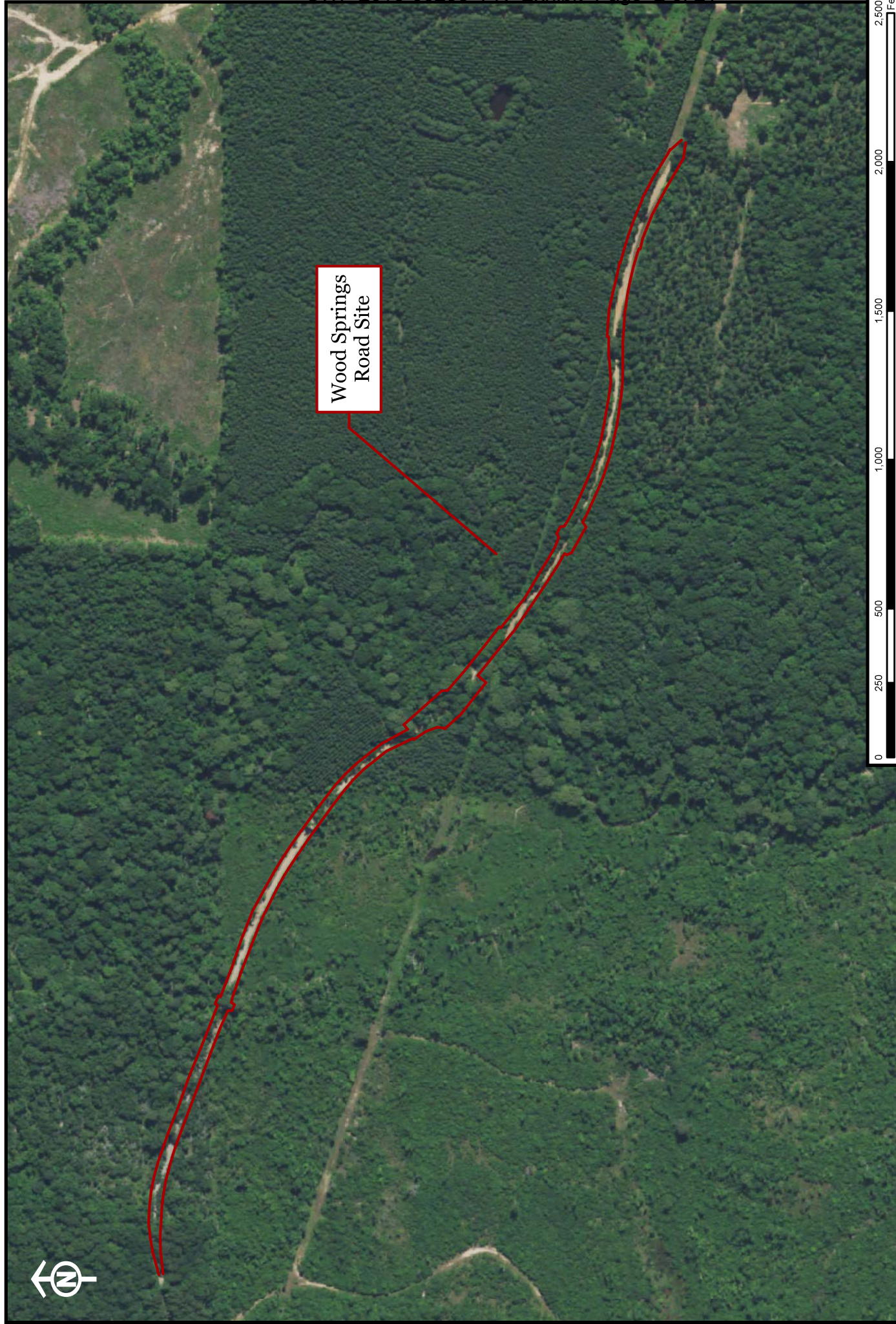
Prepared by:
Lindsey Smith

Prepared for:
Beast Engineering, LLC

| Project | Scale |
|--------------|------------|
| 012-002-0004 | 1:225,000 |
| Drawn by | Date |
| LCS | 10-12-2017 |

BEAST Engineering, LLC
DeSoto Parish
Road Improvements
DeSoto Parish, LA

Wood Springs Road
Location Map
Figure 1
SWF-2016-00253



Wood Springs
Road Site



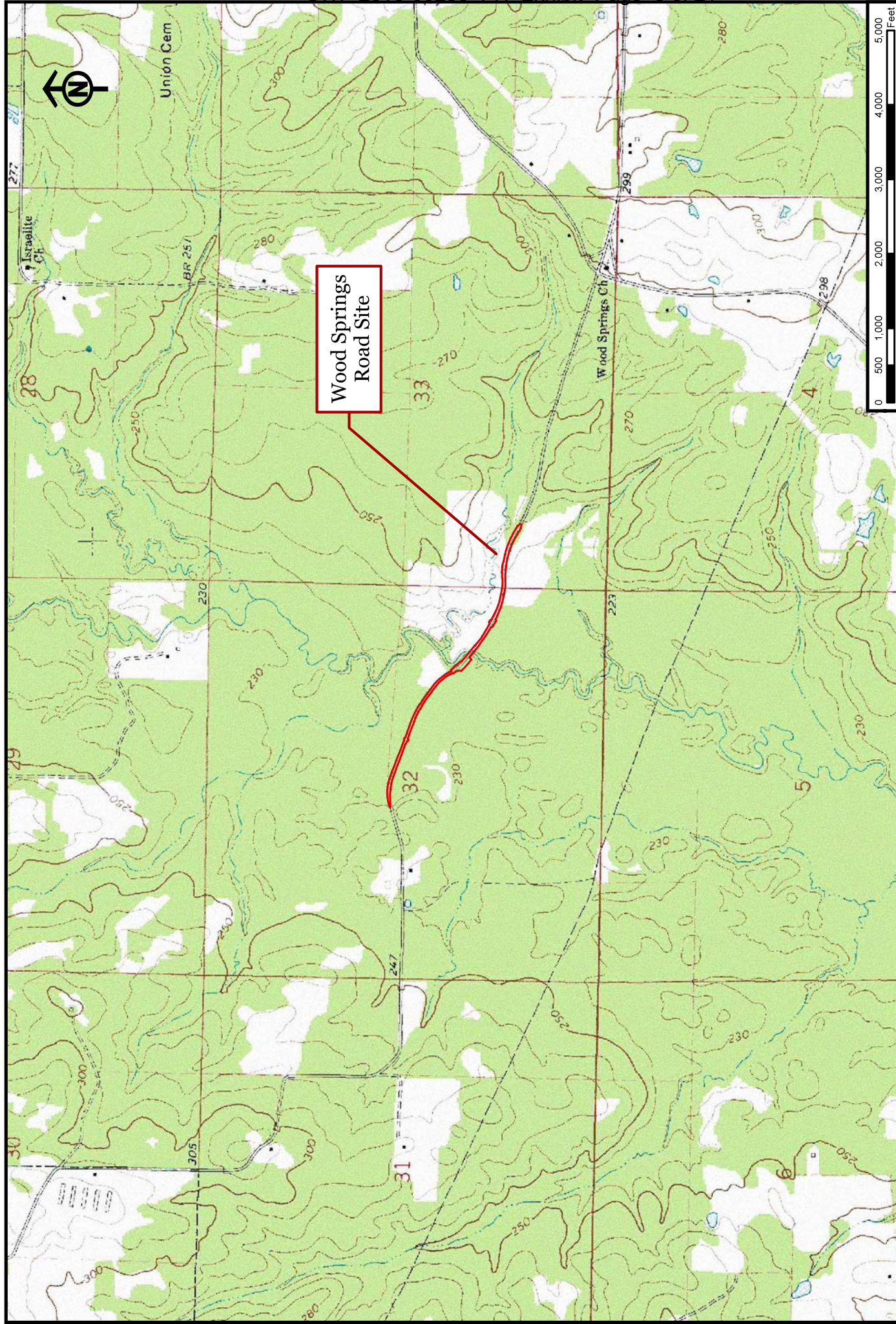
| | |
|-----------------|--------------|
| Project | Scale |
| 012-002-0004 | 1:5,000 |
| Drawn by | Date |
| LCS | 10-27-2017 |

DeSoto Parish
Road Improvements
DeSoto Parish, LA

Wood Springs Road Project
SWF-2016-00253
Aerial Photograph
2015 USDA NAIP Aerial Photograph
Figure 2

Prepared by:
Lindsey Smith
Prepared for:
Beast Engineering, LLC





Impact Table

| Wetland ID | Impact Type | Activity Type | Wetland Name | Cowardin | Type | Acres | Area sq. ft. | Cu yds. Fill | Linear ft Impact |
|----------------------------------|-------------|---------------|------------------------|----------|---------|---------------|----------------|--------------|------------------|
| SA1 | Temporary | Work Zone | Intermittent Stream | R2SB | Stream | 0.001 | 43.5 | 0 | 27 |
| SA2 | Temporary | Work Zone | Bayou Castor | R2SB | Stream | 0.0515 | 2243.4 | 0 | 55 |
| SA3 | Temporary | Work Zone | Intermittent Stream | R2SB | Stream | 0.0215 | 936.1 | 0 | 10 |
| SA4 | Temporary | Work Zone | Intermittent Stream | R2SB | Stream | 0.0033 | 143.8 | 0 | 5 |
| WA3 | Temporary | Work Zone | Mixed Wetland Hardwood | PFO6 | Wetland | 0.0662 | 2880.5 | 0 | |
| WA4 | Temporary | Work Zone | Wetland Pine | PFO4 | Wetland | 0.0216 | 939.3 | 0 | |
| WA5 | Temporary | Work Zone | Backwater Slough | PUB4 | Wetland | 0.0649 | 2827.5 | 0 | |
| Temporary Stream Impacts | | | | | | 0.0773 | 3366.8 | 0 | 97 |
| Temporary Wetland Impacts | | | | | | 0.1527 | 6647.3 | 0 | |
| Temporary Impact Totals | | | | | | 0.23 | 10014.1 | 0 | |
| Wetland ID | Impact Type | Activity Type | Wetland Name | Cowardin | Type | Acres | Area sq. ft. | Cu yds. Fill | Linear ft Impact |
| SA1 | Permanent | Fill | Intermittent Stream | R2SB | Stream | 0.0153 | 666.8 | 2 | 25 |
| SA2 | Permanent | Fill | Bayou Castor | R2SB | Stream | 0.014 | 611.8 | 27 | 55 |
| SA3 | Permanent | Fill | Intermittent Stream | R2SB | Stream | 0.0246 | 1070.8 | 5 | 40 |
| SA4 | Permanent | Fill | Intermittent Stream | R2SB | Stream | 0.0059 | 255.4 | 2 | 10 |
| WA1 | Permanent | Fill | Mixed Wetland Hardwood | PFO6 | Wetland | 0.1114 | 4849.6 | 78 | |
| WA2 | Permanent | Fill | Scrub Shrub | PSS6 | Wetland | 0.0773 | 3367 | 55 | |
| WA3 | Permanent | Fill | Mixed Wetland Hardwood | PFO6 | Wetland | 0.3515 | 14891 | 17 | |
| WA3 | Permanent | Dredging | Cleared Utility ROW | PEM2 | Wetland | 0.0266 | 1157 | 36 | |
| WA4 | Permanent | Fill | Wetland Pine | PFO4 | Wetland | 0.143 | 5589.1 | 87 | |
| WA5 | Permanent | Fill | Backwater Slough | PUB4 | Wetland | 0.0053 | 230.2 | 144 | |
| Permanent Stream Impacts | | | | | | 0.0598 | 2604.8 | 36 | 130 |
| Permanent Wetland Impacts | | | | | | 0.7151 | 30083.9 | 417 | |
| Permanent Impact Totals | | | | | | 0.7749 | 32688.7 | 453 | |



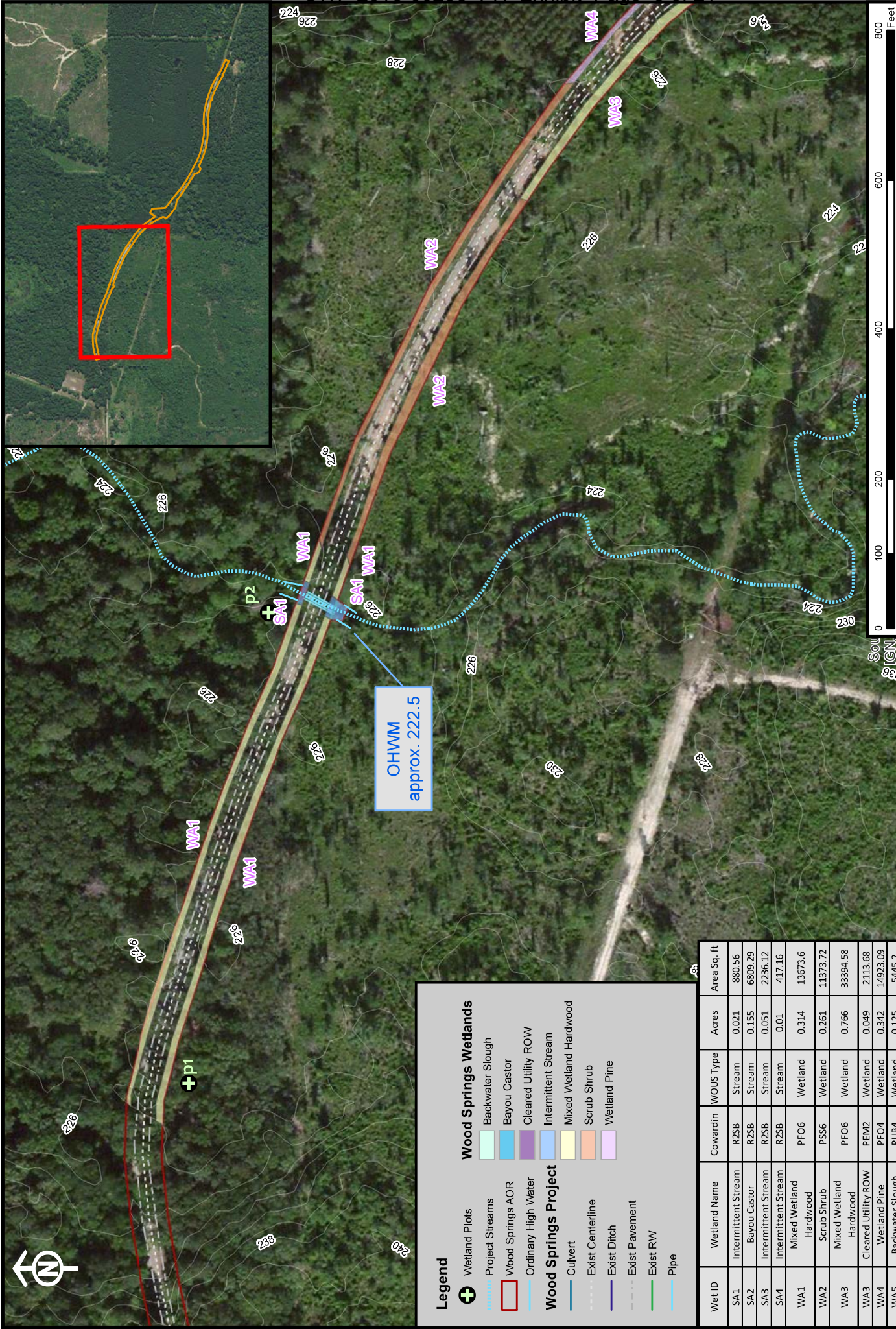
Wood Springs Road Project
 SWF-2016-00253
 Soils Map
 NRCS SSURGO Soils Data
 Figure 4

BEAST Engineering, LLC
 DeSoto Parish
 Road Improvements
 DeSoto Parish, LA

| Project | Scale |
|-------------|------------|
| 012-02-0004 | 1:18,000 |
| Drawn by | Date |
| LCS | 10-27-2017 |

Prepared by:
 Lindsey Smith
 Prepared for:
 Beast Engineering, LLC

- Legend**
- Wood Springs AOR
 - DeSoto Parish SSURGO Soil Survey
 - Mapunit Symbol, Mapunit Name, Hydric Rating**
 - Ba - Bearegard silt loam, 1 to 3 percent slopes - No
 - Bn - Bonn silt loam - Yes
 - Bo - Bowie fine sandy loam, 1 to 5 percent slopes - No
 - Ca - Cahaba fine sandy loam, 1 to 3 percent slopes - No
 - Ea - Eastwood sandy loam, 1 to 5 percent slopes - No
 - Ec - Eastwood fine sandy loam, 5 to 12 percent slopes - No
 - GY - Guyton-Julius complex, 0 to 1 percent slopes, frequently flooded - Yes
 - Gu - Guyton silt loam, 0 to 1 percent slopes, rarely flooded - Yes
 - IU - Iuka and Ochlocknee soils, frequently flooded - No
 - Ke - Keithville very fine sandy loam, 1 to 5 percent slopes - No
 - Mc - Metcalf silt loam - No
 - Me - Meth fine sandy loam, 3 to 8 percent slopes - No
 - W - Water



OHWM
approx. 222.5

| Legend | | Wood Springs Wetlands | |
|-----------------------------|---------------------|------------------------|--|
| + | Wetland Plots | Backwater Slough | |
| — | Project Streams | Bayou Castor | |
| — | Wood Springs AOR | Cleared Utility ROW | |
| — | Ordinary High Water | Intermittent Stream | |
| Wood Springs Project | | Mixed Wetland Hardwood | |
| — | Culvert | Scrub Shrub | |
| — | Exist Centerline | Wetland Pine | |
| — | Exist Ditch | | |
| — | Exist Pavement | | |
| — | Exist RW | | |
| — | Pipe | | |

| Wet ID | Wetland Name | Cowardin | WOU Type | Acres | Area Sq. ft |
|--------|------------------------|----------|----------|-------|-------------|
| SA1 | Intermittent Stream | R2SB | Stream | 0.021 | 880.56 |
| SA2 | Bayou Castor | R2SB | Stream | 0.155 | 6809.29 |
| SA3 | Intermittent Stream | R2SB | Stream | 0.051 | 2236.12 |
| SA4 | Intermittent Stream | R2SB | Stream | 0.01 | 417.16 |
| WA1 | Mixed Wetland Hardwood | PF06 | Wetland | 0.314 | 13673.6 |
| WA2 | Scrub Shrub | PSS6 | Wetland | 0.261 | 11373.72 |
| WA3 | Mixed Wetland Hardwood | PF06 | Wetland | 0.766 | 33394.58 |
| WA3 | Cleared Utility ROW | PEM2 | Wetland | 0.049 | 2113.68 |
| WA4 | Wetland Pine | PF04 | Wetland | 0.342 | 14923.09 |
| WA5 | Backwater Slough | PUB4 | Wetland | 0.125 | 5445.2 |

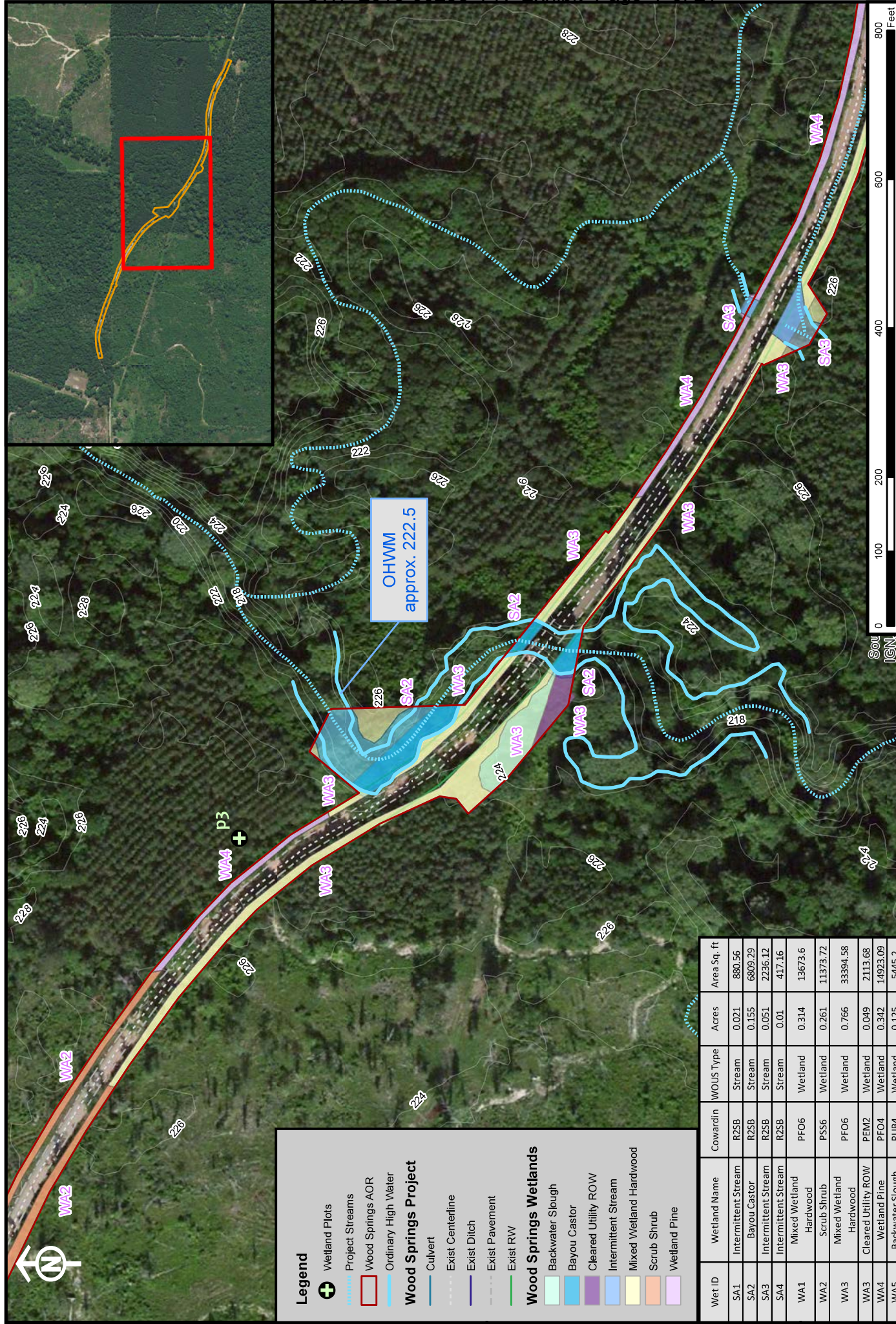
| Project | Scale |
|--------------|-----------|
| 012-002-0004 | 1:2000 |
| Drawn by | Date |
| LCS | 2-27-2017 |

Prepared by:
Lindsey Smith

Prepared for:
Beast Engineering, LLC

BEAST Engineering, LLC
DeSoto Parish
Road Improvements
DeSoto Parish, LA

Wood Springs Road Project
SWF-2016-00253
Wetland Map
2015 USDA NAIP Aerial Photograph
Figure 5a



Legend

- + Wetland Plots
- Project Streams
- Wood Springs AOR
- Ordinary High Water

Wood Springs Project

- Culvert
- Exist Centerline
- Exist Ditch
- Exist Pavement
- Exist RW

Wood Springs Wetlands

- Backwater Slough
- Bayou Castor
- Cleared Utility ROW
- Intermittent Stream
- Mixed Wetland Hardwood
- Scrub Shrub
- Wetland Pine

| Wet ID | Wetland Name | Cowardin | WOUIS Type | Acres | Area Sq. ft |
|--------|------------------------|----------|------------|-------|-------------|
| SA1 | Intermittent Stream | R2SB | Stream | 0.021 | 880.56 |
| SA2 | Bayou Castor | R2SB | Stream | 0.155 | 6809.29 |
| SA3 | Intermittent Stream | R2SB | Stream | 0.051 | 2236.12 |
| SA4 | Intermittent Stream | R2SB | Stream | 0.01 | 417.16 |
| WA1 | Mixed Wetland Hardwood | PF06 | Wetland | 0.314 | 13673.6 |
| WA2 | Scrub Shrub | PSS6 | Wetland | 0.261 | 11373.72 |
| WA3 | Mixed Wetland Hardwood | PF06 | Wetland | 0.766 | 33394.58 |
| WA3 | Cleared Utility ROW | PEW2 | Wetland | 0.049 | 2113.68 |
| WA4 | Wetland Pine | PF04 | Wetland | 0.342 | 14923.09 |
| WA5 | Backwater Slough | PUB4 | Wetland | 0.125 | 5445.2 |

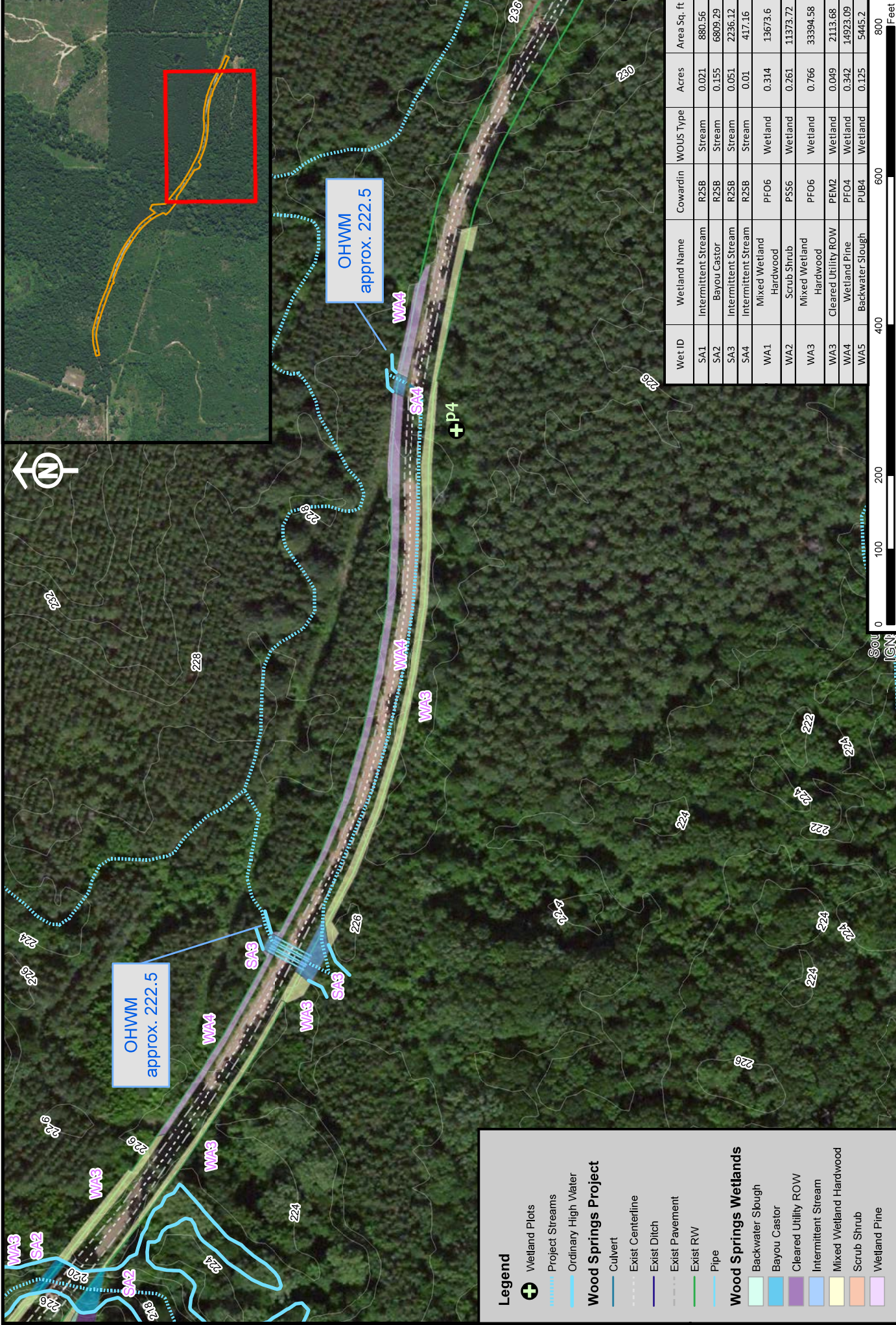
| Project | Scale |
|--------------|-----------|
| 012-002-0004 | 1:2000 |
| Drawn by | Date |
| LCS | 2-27-2017 |

Prepared by:
Lindsey Smith

Prepared for:
Beast Engineering, LLC

BEAST Engineering, LLC
DeSoto Parish
Road Improvements
DeSoto Parish, LA

Wood Springs Road Project
SWF-2016-00253
Wetland Map
2015 USDA NAIP Aerial Photograph
Figure 5b



| Wet ID | Wetland Name | Cowardin | WOUS Type | Acres | Area Sq. ft |
|--------|------------------------|----------|-----------|-------|-------------|
| SA1 | Intermittent Stream | R2SB | Stream | 0.021 | 880.56 |
| SA2 | Bayou Castor | R2SB | Stream | 0.155 | 6809.29 |
| SA3 | Intermittent Stream | R2SB | Stream | 0.051 | 2236.12 |
| SA4 | Intermittent Stream | R2SB | Stream | 0.01 | 417.16 |
| WA1 | Mixed Wetland Hardwood | PFO6 | Wetland | 0.314 | 13673.6 |
| WA2 | Scrub Shrub | PSS6 | Wetland | 0.261 | 11373.72 |
| WA3 | Mixed Wetland Hardwood | PFO6 | Wetland | 0.766 | 33394.58 |
| WA3 | Cleared Utility ROW | PEM2 | Wetland | 0.049 | 2113.68 |
| WA4 | Wetland Pine | PFO4 | Wetland | 0.342 | 14923.09 |
| WA5 | Backwater Slough | PUB4 | Wetland | 0.125 | 5445.2 |

BEAST Engineering, LLC
 DeSoto Parish
 Road Improvements
 DeSoto Parish, LA

Project 012-002-0004
Scale 1:2000
Drawn by LCS
Date 2-27-2017

Prepared by:
 Lindsey Smith
 Prepared for:
 Beast Engineering, LLC

Wood Springs Road Project
 SWF-2016-00253
 Wetland Map
 2015 USDA NAIP Aerial Photograph
 Figure 5c



lobe, GeoEye, Earthstar Geogr
Community

| Legend | |
|------------------------|-----------------------------|
| Layer | Wetland Impacts |
| Pipe | wetland id, activity |
| Edge of Pavement | SA1, Fill |
| Limits of Const. | SA1, Work Zone |
| Proposed Centerline | SA2, Fill |
| Riprap | SA2, Work Zone |
| Ordinary High Water | SA3, Fill |
| Project Streams | SA3, Work Zone |
| Wetland Impacts | SA4, Fill |
| impact | SA4, Work Zone |
| Permanent | WA1, Fill |
| Temporary | WA2, Fill |
| | WA3, Dredging |
| | WA3, Fill |
| | WA3, Work Zone |
| | WA4, Fill |
| | WA4, Work Zone |
| | WA5, Fill |
| | WA5, Minor Dedging |
| | WA5, Work Zone |

| Wetland ID | Impact Type | Activity Type | Wetland Name | Cowardin | Type | Acres | Area sq. ft. | Cu yds. Fill | Linear ft Impact |
|------------|-------------|---------------|------------------------|----------|---------|--------|--------------|--------------|------------------|
| SA1 | Temporary | Work Zone | Intermittent Stream | R2SB | Stream | 0.001 | 43.5 | 0 | 27 |
| SA2 | Temporary | Work Zone | Bayou Castor | R2SB | Stream | 0.0515 | 2283.4 | 0 | 55 |
| SA3 | Temporary | Work Zone | Intermittent Stream | R2SB | Stream | 0.0215 | 936.1 | 0 | 10 |
| SA4 | Temporary | Work Zone | Intermittent Stream | R2SB | Stream | 0.0033 | 143.8 | 0 | 5 |
| WA3 | Temporary | Work Zone | Mixed Wetland Hardwood | PFO6 | Wetland | 0.0662 | 2880.5 | 0 | |
| WA4 | Temporary | Work Zone | Wetland Pine | PFO4 | Wetland | 0.0216 | 939.3 | 0 | |
| WA5 | Temporary | Work Zone | Backwater Slough | PUB4 | Wetland | 0.0649 | 2827.5 | 0 | |
| SA1 | Permanent | Fill | Intermittent Stream | R2SB | Stream | 0.0153 | 666.8 | 2 | 25 |
| SA2 | Permanent | Fill | Bayou Castor | R2SB | Stream | 0.014 | 611.8 | 27 | 55 |
| SA3 | Permanent | Fill | Intermittent Stream | R2SB | Stream | 0.0246 | 1070.8 | 5 | 40 |
| SA4 | Permanent | Fill | Intermittent Stream | R2SB | Stream | 0.0059 | 255.4 | 2 | 10 |
| WA1 | Permanent | Fill | Mixed Wetland Hardwood | PFO6 | Wetland | 0.1114 | 4849.6 | 78 | |
| WA2 | Permanent | Fill | Scrub Shrub | P5S6 | Wetland | 0.0773 | 3367 | 55 | |
| WA3 | Permanent | Fill | Mixed Wetland Hardwood | PFO6 | Wetland | 0.3515 | 14891 | 17 | |
| WA3 | Permanent | Dredging | Cleared Utility ROW | PEM2 | Wetland | 0.0266 | 1157 | 36 | |
| WA4 | Permanent | Fill | Wetland Pine | PFO4 | Wetland | 0.143 | 5589.1 | 87 | |
| WA5 | Permanent | Fill | Backwater Slough | PUB4 | Wetland | 0.0053 | 230.2 | 144 | |

| Project | Scale |
|--------------|------------|
| 012-002-0004 | 1:1000 |
| Drawn by | Date |
| LCS | 11-27-2017 |

Prepared by:
Lindsey Smith

Prepared for:
Beast Engineering, LLC

BEAST Engineering, LLC
DeSoto Parish
Road Improvements
DeSoto Parish, LA

Wood Springs Road Project
SWF-2016-00253
2015 USDA NAIP Aerial Photograph
Figure 6a



obe, GeoEye, Earthstar Geogr
Community

| Wetland ID | Impact Type | Activity Type | Wetland Name | Code/ordin | Type | Acres | Area sq. ft. | Cu Yds. Fill | Linear ft. Impact |
|------------|-------------|---------------|------------------------|------------|---------|--------|--------------|--------------|-------------------|
| SA1 | Temporary | Work Zone | Intermittent Stream | R25B | Stream | 0.001 | 43.5 | 0 | 27 |
| SA2 | Temporary | Work Zone | Bayou Castor | R25B | Stream | 0.0515 | 2243.4 | 0 | 55 |
| SA3 | Temporary | Work Zone | Intermittent Stream | R25B | Stream | 0.0215 | 936.1 | 0 | 10 |
| SA4 | Temporary | Work Zone | Intermittent Stream | R25B | Stream | 0.0033 | 143.8 | 0 | 5 |
| WA3 | Temporary | Work Zone | Mixed Wetland Hardwood | PFO6 | Wetland | 0.0562 | 2880.5 | 0 | 0 |
| WA4 | Temporary | Work Zone | Wetland Pine | PFO4 | Wetland | 0.0216 | 939.3 | 0 | 0 |
| WA5 | Temporary | Work Zone | Backwater Slough | PUB4 | Wetland | 0.0649 | 2827.5 | 0 | 0 |
| SA1 | Permanent | Fill | Intermittent Stream | R25B | Stream | 0.0133 | 666.8 | 2 | 25 |
| SA2 | Permanent | Fill | Bayou Castor | R25B | Stream | 0.014 | 611.8 | 27 | 55 |
| SA3 | Permanent | Fill | Intermittent Stream | R25B | Stream | 0.0246 | 1070.8 | 5 | 40 |
| SA4 | Permanent | Fill | Intermittent Stream | R25B | Stream | 0.0059 | 255.4 | 2 | 10 |
| WA1 | Permanent | Fill | Mixed Wetland Hardwood | PFO6 | Wetland | 0.1114 | 4849.6 | 78 | 78 |
| WA2 | Permanent | Fill | Scrub Shrub | PS56 | Wetland | 0.0773 | 3367 | 55 | 17 |
| WA3 | Permanent | Fill | Mixed Wetland Hardwood | PFO6 | Wetland | 0.3515 | 14891 | 1157 | 36 |
| WA4 | Permanent | Dredging | Cleared Utility ROW | PEM2 | Wetland | 0.0266 | 1157 | 87 | 87 |
| WA5 | Permanent | Fill | Wetland Pine | PFO4 | Wetland | 0.143 | 5589.1 | 87 | 144 |
| WA5 | Permanent | Fill | Backwater Slough | PUB4 | Wetland | 0.0053 | 230.2 | 144 | 144 |

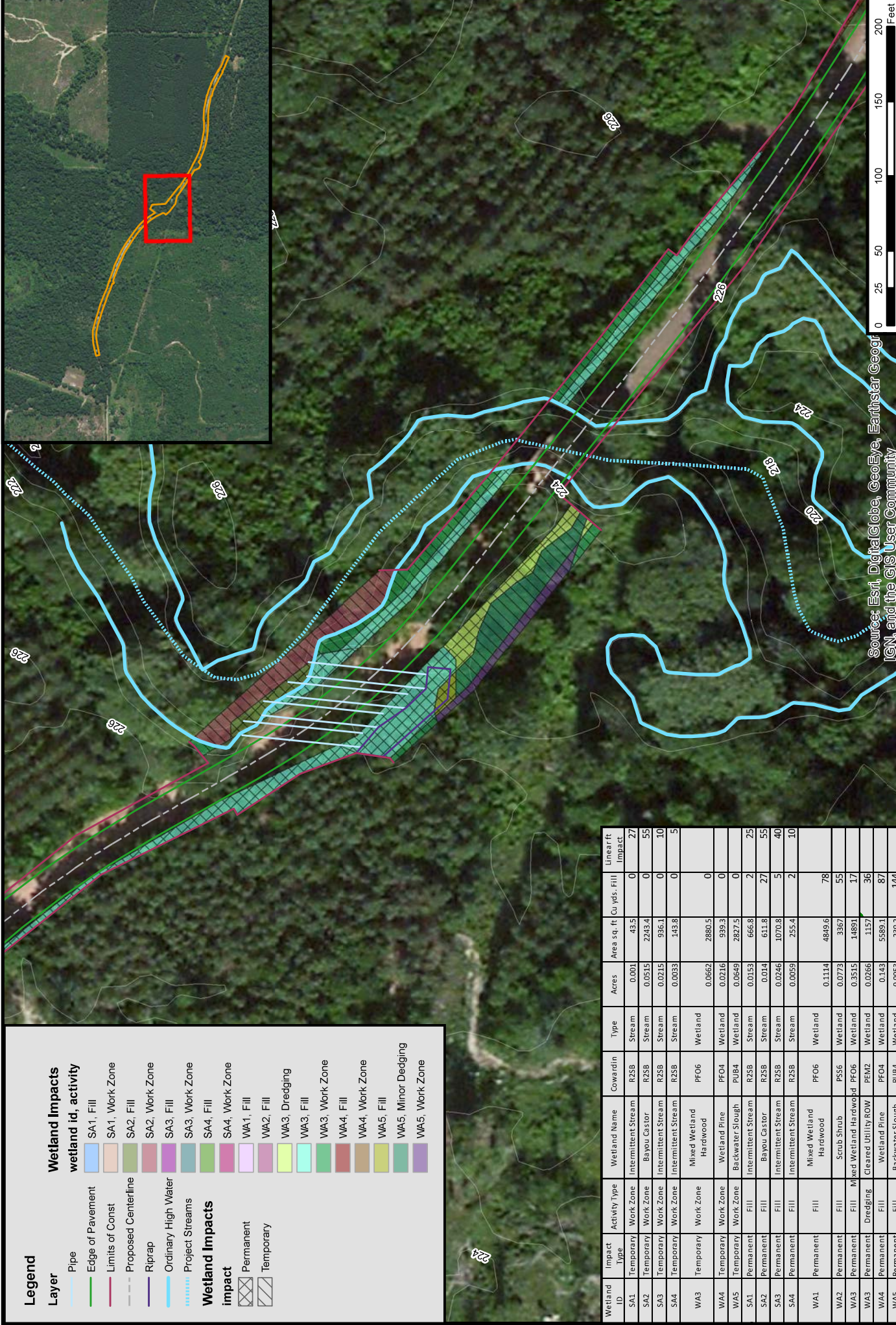
| | |
|-----------------|--------------|
| Project | Scale |
| 012-002-0004 | 1:1000 |
| Drawn by | Date |
| LCS | 11-27-2017 |

Prepared by:
Lindsey Smith

Prepared for:
Beast Engineering, LLC

BEAST Engineering, LLC
DeSoto Parish
Road Improvements
DeSoto Parish, LA

Wood Springs Road Project
SWF-2016-00253
2015 USDA NAIP Aerial Photograph
Figure 6b



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geogr
IGN, and the GIS User Community



| Legend | | Wetland Impacts | |
|------------------------|-------------------|----------------------|--------------------|
| Layer | Symbol | Wetland id, activity | Wetland Impact |
| Pipe | Blue line | SA1, Fill | WA1, Fill |
| Edge of Pavement | Green line | SA1, Work Zone | WA2, Fill |
| Limits of Const | Red line | SA2, Fill | WA3, Dredging |
| Proposed Centerline | Black dashed line | SA2, Work Zone | WA3, Fill |
| Riprap | Blue dashed line | SA3, Fill | WA3, Work Zone |
| Ordinary High Water | Blue solid line | SA3, Work Zone | WA4, Fill |
| Project Streams | Blue dotted line | SA4, Fill | WA4, Work Zone |
| Wetland Impacts | | SA4, Work Zone | WA5, Fill |
| Impact | | WA1, Fill | WA5, Minor Dedging |
| Permanent | White hatched | WA2, Fill | WA5, Work Zone |
| Temporary | Black hatched | WA3, Dredging | |
| | | WA3, Fill | |
| | | WA3, Work Zone | |
| | | WA4, Fill | |
| | | WA4, Work Zone | |
| | | WA5, Fill | |
| | | WA5, Minor Dedging | |
| | | WA5, Work Zone | |

| Wetland ID | Impact Type | Activity Type | Wetland Name | Cowardin | Type | Acres | Area sq. ft. | Cu yds. Fill | Linear ft Impact |
|------------|-------------|---------------|------------------------|----------|---------|--------|--------------|--------------|------------------|
| SA1 | Temporary | Work Zone | Intermittent-Stream | R25B | Stream | 0.001 | 43.5 | 0 | 27 |
| SA2 | Temporary | Work Zone | Bayou Castor | R25B | Stream | 0.0515 | 2233.4 | 0 | 55 |
| SA3 | Temporary | Work Zone | Intermittent-Stream | R25B | Stream | 0.0215 | 936.1 | 0 | 10 |
| SA4 | Temporary | Work Zone | Intermittent-Stream | R25B | Stream | 0.0033 | 143.8 | 0 | 5 |
| WA3 | Temporary | Work Zone | Mixed Wetland Hardwood | PFO6 | Wetland | 0.0662 | 2880.5 | 0 | |
| WA4 | Temporary | Work Zone | Wetland Pine | PFO4 | Wetland | 0.0216 | 939.3 | 0 | |
| WA5 | Temporary | Work Zone | Backwater Slough | PUB4 | Wetland | 0.0649 | 2827.5 | 0 | |
| SA1 | Permanent | Fill | Intermittent-Stream | R25B | Stream | 0.0153 | 666.8 | 2 | 25 |
| SA2 | Permanent | Fill | Bayou Castor | R25B | Stream | 0.014 | 611.8 | 27 | 55 |
| SA3 | Permanent | Fill | Intermittent-Stream | R25B | Stream | 0.0246 | 1070.8 | 5 | 40 |
| SA4 | Permanent | Fill | Intermittent-Stream | R25B | Stream | 0.0059 | 255.4 | 2 | 10 |
| WA1 | Permanent | Fill | Mixed Wetland Hardwood | PFO6 | Wetland | 0.1114 | 4849.6 | 78 | |
| WA2 | Permanent | Fill | Scrub Shrub | PS56 | Wetland | 0.0773 | 3367 | 55 | |
| WA3 | Permanent | Fill | Mixed Wetland Hardwood | PFO6 | Wetland | 0.3515 | 14891 | 17 | |
| WA3 | Permanent | Dredging | Cleared Utility ROW | PEM2 | Wetland | 0.0266 | 1157 | 36 | |
| WA4 | Permanent | Fill | Wetland Pine | PFO4 | Wetland | 0.143 | 5589.1 | 87 | |
| WA5 | Permanent | Fill | Backwater Slough | PUB4 | Wetland | 0.0053 | 230.2 | 144 | |

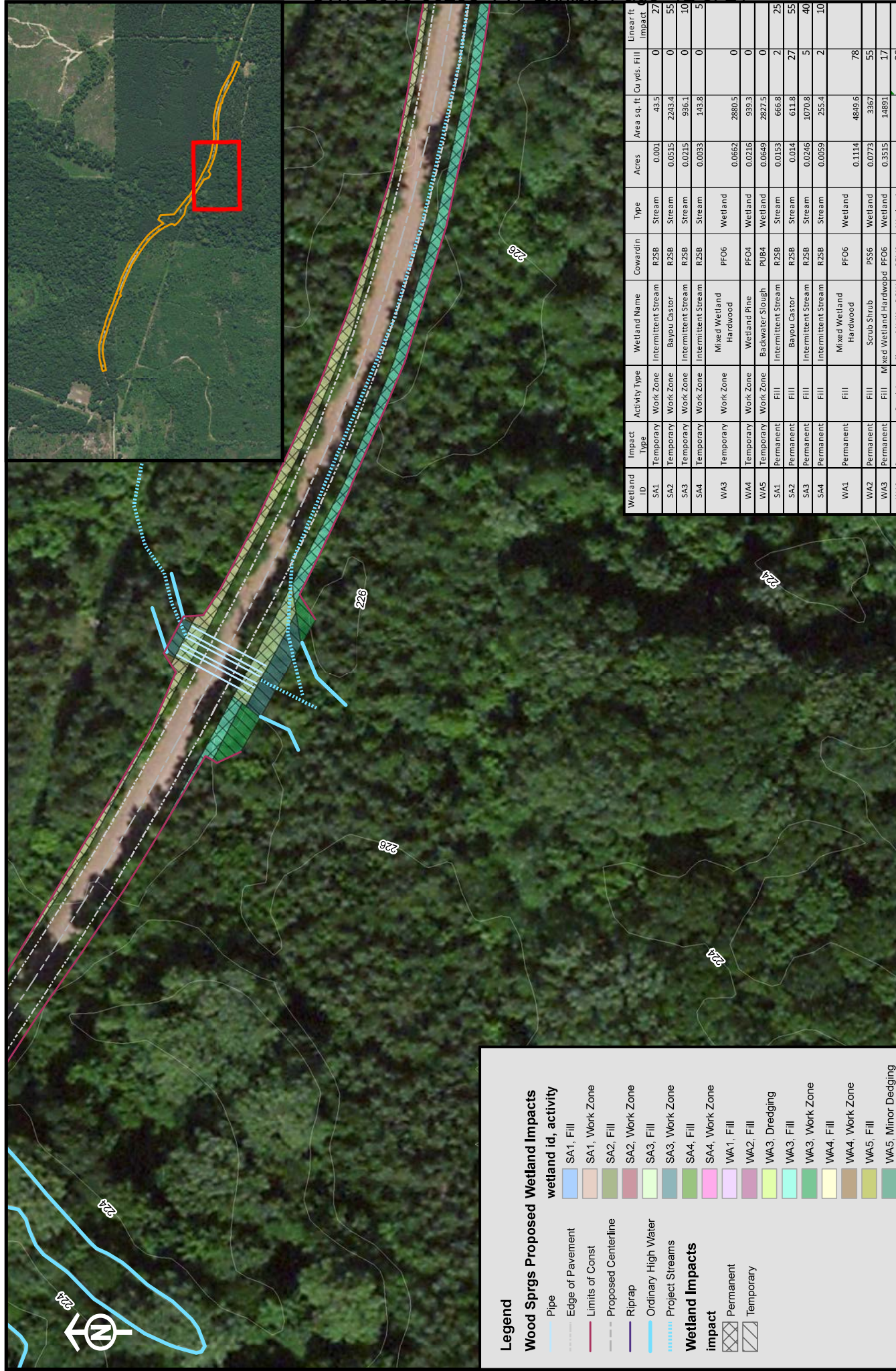
Prepared by:
Lindsey Smith

Prepared for:
Beast Engineering, LLC

| | |
|-----------------|-------------|
| Project | Scale |
| 012-002-0004 | 1:1000 |
| Drawn by | Date |
| LCS | 11-27-2017 |

BEAST Engineering, LLC
DeSoto Parish
Road Improvements
DeSoto Parish, LA

Wood Springs Road Project
SWF-2016-00253
2015 USDA NAIP Aerial Photograph
Figure 6c



Legend

Wood Sprgs Proposed Wetland Impacts

wetland id, activity

- SA1, Fill
- SA1, Work Zone
- SA2, Fill
- SA2, Work Zone
- SA3, Fill
- SA3, Work Zone
- SA4, Fill
- SA4, Work Zone
- WA1, Fill
- WA2, Fill
- WA3, Dredging
- WA3, Fill
- WA3, Work Zone
- WA4, Fill
- WA4, Work Zone
- WA5, Fill
- WA5, Minor Dredging
- WA5, Work Zone

impact

- Permanent
- Temporary

Other Symbols:

- Pipe
- Edge of Pavement
- Limits of Const.
- Proposed Centerline
- Riprap
- Ordinary High Water
- Project Streams



| | |
|-----------------|--------------|
| Project | 012-002-0004 |
| Scale | 1:1000 |
| Drawn by | LCS |
| Date | 11-27-2017 |

Prepared by:
Lindsey Smith

Prepared for:
Beast Engineering, LLC

| Wetland ID | Impact Type | Activity Type | Wetland Name | Cowardin | Type | Acres | Area sq. ft. | Cu yds. Fill | Linear ft. Impact |
|------------|-------------|---------------|------------------------|----------|---------|--------|--------------|--------------|-------------------|
| SA1 | Temporary | Work Zone | Intermittent Stream | R2SB | Stream | 0.001 | 43.5 | 0 | 27 |
| SA2 | Temporary | Work Zone | Bayou Castor | R2SB | Stream | 0.0515 | 2243.4 | 0 | 55 |
| SA3 | Temporary | Work Zone | Intermittent Stream | R2SB | Stream | 0.0215 | 936.1 | 0 | 10 |
| SA4 | Temporary | Work Zone | Intermittent Stream | R2SB | Stream | 0.0033 | 143.8 | 0 | 5 |
| WA3 | Temporary | Work Zone | Mixed Wetland Hardwood | PF06 | Wetland | 0.0662 | 2880.5 | 0 | |
| WA4 | Temporary | Work Zone | Wetland Pine | PF04 | Wetland | 0.0216 | 939.3 | 0 | |
| WA5 | Temporary | Work Zone | Backwater Slough | PUB4 | Wetland | 0.0649 | 2827.5 | 0 | |
| SA1 | Permanent | Fill | Intermittent Stream | R2SB | Stream | 0.0153 | 666.8 | 2 | 25 |
| SA2 | Permanent | Fill | Bayou Castor | R2SB | Stream | 0.014 | 611.8 | 27 | 55 |
| SA3 | Permanent | Fill | Intermittent Stream | R2SB | Stream | 0.0246 | 1070.8 | 5 | 40 |
| SA4 | Permanent | Fill | Intermittent Stream | R2SB | Stream | 0.0059 | 255.4 | 2 | 10 |
| WA1 | Permanent | Fill | Mixed Wetland Hardwood | PF06 | Wetland | 0.1114 | 4849.6 | 78 | |
| WA2 | Permanent | Fill | Scrub Shrub | P5S6 | Wetland | 0.0773 | 3367 | 55 | |
| WA3 | Permanent | Fill | Mixed Wetland Hardwood | PF06 | Wetland | 0.3515 | 14891 | 17 | |
| WA3 | Permanent | Dredging | Cleared Utility ROW | PEM2 | Wetland | 0.0256 | 1157 | 36 | |
| WA4 | Permanent | Fill | Wetland Pine | PF04 | Wetland | 0.143 | 5589.1 | 87 | |
| WA5 | Permanent | Fill | Backwater Slough | PUB4 | Wetland | 0.0053 | 230.2 | 144 | |

BEAST Engineering, LLC
DeSoto Parish
Road Improvements
DeSoto Parish, LA

Wood Springs Road Project
SWF-2016-00253
2015 USDA NAIP Aerial Photograph
Figure 6d

Source: Esri, DigitalGlobe, GeoEye, IGN, and the GIS User Community



Legend

Wood Sprgs Proposed Wetland Impacts

Wetland id, Activity

- SA1, Fill
- SA1, Work Zone
- SA2, Fill
- SA2, Work Zone
- SA3, Fill
- SA3, Work Zone
- SA4, Fill
- SA4, Work Zone
- WA1, Fill
- WA2, Fill
- WA3, Dredging
- WA3, Fill
- WA3, Work Zone
- WA4, Fill
- WA4, Work Zone
- WA5, Fill
- WA5, Minor Dredging
- WA5, Work Zone

Wetland Impacts

- Permanent
- Temporary

Other Features:

- Pipe
- Edge of Pavement
- Limits of Const.
- Proposed Centerline
- Riprap
- Ordinary High Water
- Project Streams



| | |
|-----------------|--------------|
| Project | 012-002-0004 |
| Scale | 1:1000 |
| Drawn by | LCS |
| Date | 11-27-2017 |

Prepared by:
Lindsey Smith

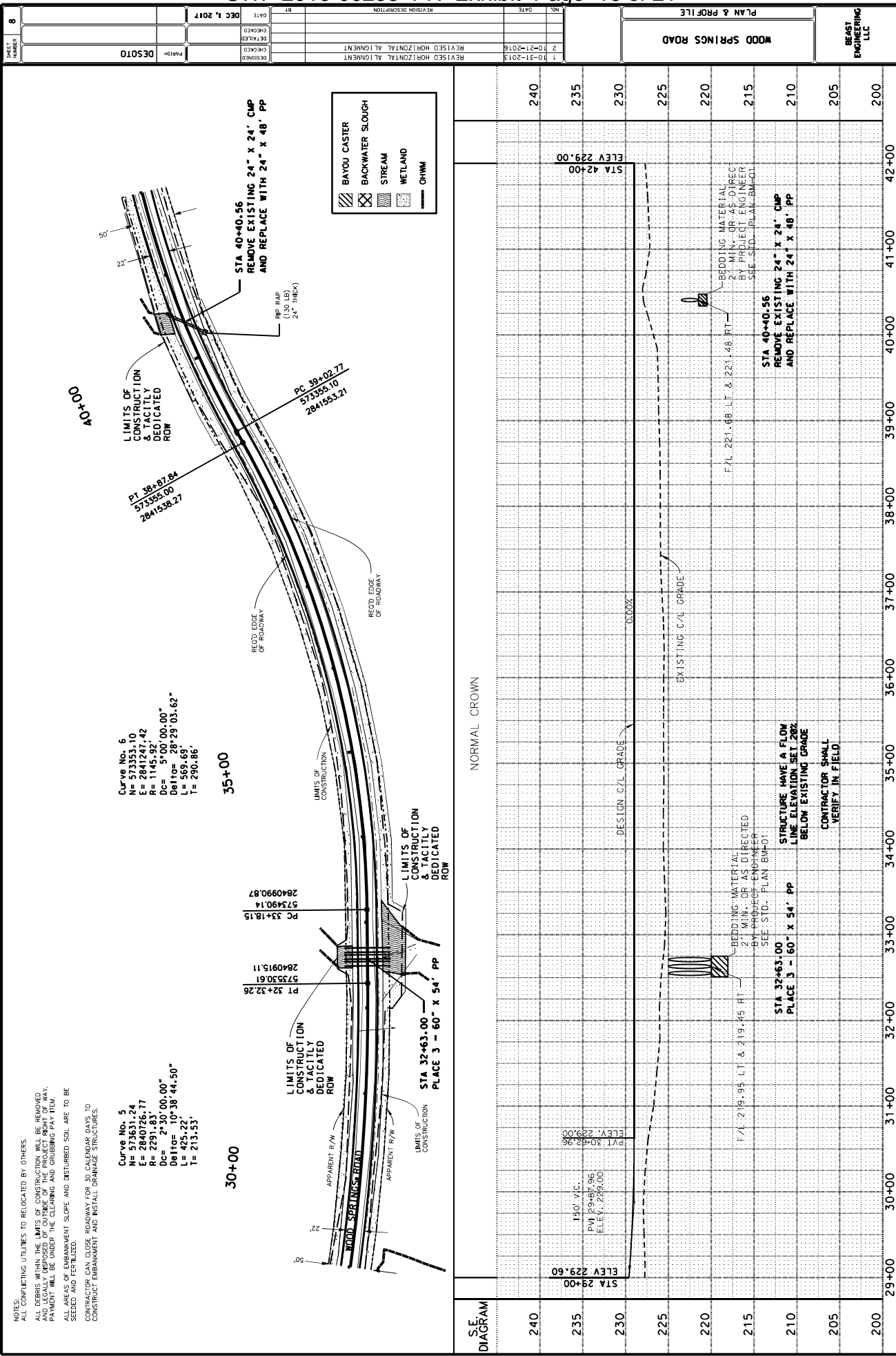
Prepared for:
Beast Engineering, LLC

| Wetland ID | Impact Type | Activity Type | Wetland Name | Cowardin | Type | Acres | Area sq. ft. | Cu yds. Fill | Linear ft. Impact |
|------------|-------------|---------------|------------------------|----------|---------|--------|--------------|--------------|-------------------|
| SA1 | Temporary | Work Zone | Intermittent Stream | R2SB | Stream | 0.001 | 43.5 | 0 | 27 |
| SA2 | Temporary | Work Zone | Bayou Castor | R2SB | Stream | 0.0515 | 2243.4 | 0 | 55 |
| SA3 | Temporary | Work Zone | Intermittent Stream | R2SB | Stream | 0.0235 | 936.1 | 0 | 10 |
| SA4 | Temporary | Work Zone | Intermittent Stream | R2SB | Stream | 0.0033 | 143.8 | 0 | 5 |
| WA3 | Temporary | Work Zone | Mixed Wetland Hardwood | PFO6 | Wetland | 0.0662 | 2880.5 | 0 | 0 |
| WA4 | Temporary | Work Zone | Wetland Pine | PFO4 | Wetland | 0.0216 | 939.3 | 0 | 0 |
| WA5 | Temporary | Work Zone | Backwater Slough | PUB4 | Wetland | 0.0649 | 2827.5 | 0 | 0 |
| SA1 | Permanent | Fill | Intermittent Stream | R2SB | Stream | 0.0153 | 666.8 | 2 | 25 |
| SA2 | Permanent | Fill | Bayou Castor | R2SB | Stream | 0.014 | 611.8 | 27 | 55 |
| SA3 | Permanent | Fill | Intermittent Stream | R2SB | Stream | 0.0246 | 1070.8 | 5 | 40 |
| SA4 | Permanent | Fill | Intermittent Stream | R2SB | Stream | 0.0059 | 255.4 | 2 | 10 |
| WA1 | Permanent | Fill | Mixed Wetland Hardwood | PFO6 | Wetland | 0.1114 | 4849.6 | 78 | 78 |
| WA2 | Permanent | Fill | Scrub Shrub | P5S6 | Wetland | 0.0773 | 3367 | 55 | 55 |
| WA3 | Permanent | Fill | Mixed Wetland Hardwood | PFO6 | Wetland | 0.3515 | 14897 | 17 | 17 |
| WA3 | Permanent | Dredging | Cleared Utility ROW | PEM2 | Wetland | 0.0256 | 1157 | 36 | 36 |
| WA4 | Permanent | Fill | Wetland Pine | PFO4 | Wetland | 0.143 | 5589.1 | 87 | 87 |
| WA5 | Permanent | Fill | Backwater Slough | PUB4 | Wetland | 0.0053 | 230.2 | 144 | 144 |

BEAST Engineering, LLC
DeSoto Parish
Road Improvements
DeSoto Parish, LA

Wood Springs Road Project
SWF-2016-00253
2015 USDA NAIP Aerial Photograph
Figure 6e

Source: Esri, DigitalGlobe, GeoEye, IGN, and the GIS User Community



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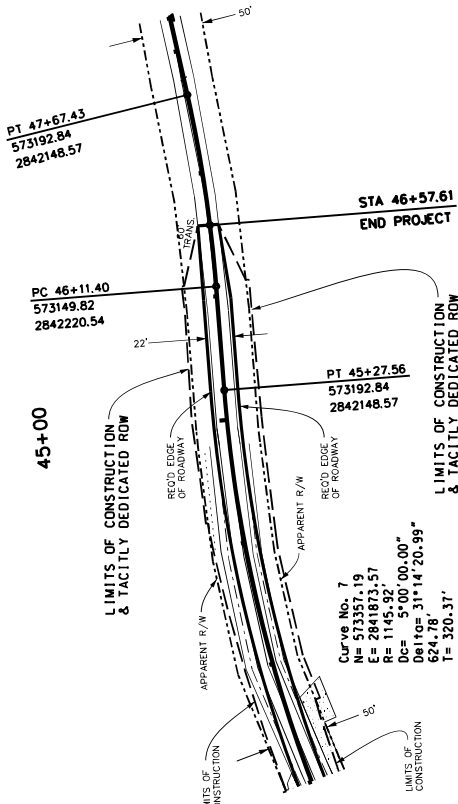
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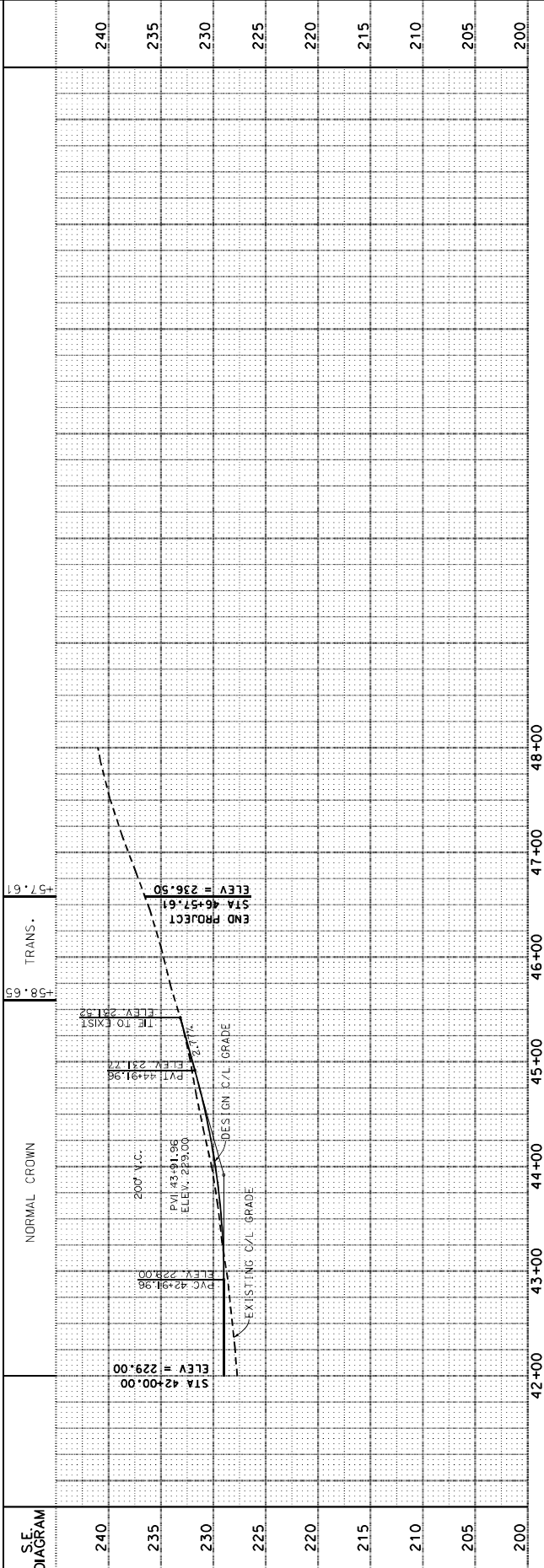
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| SHEET NUMBER | 9 | DATE | REV | REVISION DESCRIPTION | NO. | DATE | PLAN & PROFILE | WOOD SPRINGS ROAD | BEAST ENGINEERING LLC |
| | | | | | | | | | |
| DESOTO | | DEC 1, 2017 | | | 1 | 10-21-2016 | | | |
| | | | | | 2 | 10-21-2016 | | | |

Curve No. 8
 N = 573109.73
 E = 2842287.62
 R = 1091.35'
 Dc = 5°15'00.00"
 Delta = 8°11'28.80"
 156.03'
 T = 78.15'



Legend:

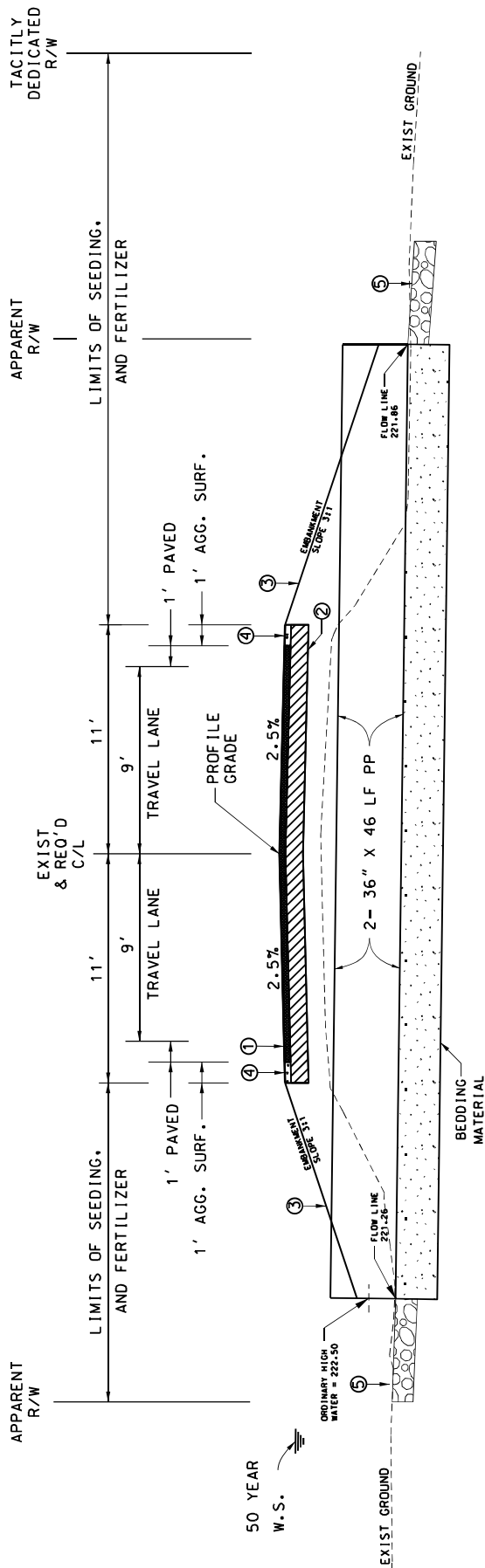
- BAYOU CASTER
- BACKWATER SLOUGH
- STREAM
- WETLAND



| | | |
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| NO. | DATE | REVISION DESCRIPTION |
| 2 | 01-01-14 | ALLOWED ALL BASE TYPES & 1" THICKNESS |
| 1 | | |

| | | |
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| DESIGNED | CHECKED | DATE |
| PAVING | CHECKED | AUG 5, 2017 |

| | |
|-----------------|-------------------|
| PROJECT NUMBER | WOOD SPRINGS ROAD |
| TYPICAL SECTION | |



CROSS SECTION @ STA. 12+78.61
WOOD SPRINGS ROAD

ROAD CLASSIFICATION:
RL-1 D.S. = 30 MPH
ADT 40 CZ = 10'

ALL STRUCTURES SHALL
HAVE A FLOW LINE ELEVATION
SET 20% BELOW EXISTING GRADE
CONTRACTOR SHALL VERIFY IN FIELD

- ① SUPERPAVE ASPHALTIC CONCRETE WEARING COURSE (2" THICK)(LEVEL 1)(GRADE PG 64-22 (AC-30) IS ALLOWED)
 - ② CLASS II BASE COURSE (13" THICK)
 - ③ EARTHWORK (LUMP SUM)
 - ④ AGGREGATE SURFACING (NET SECTION)
 - ⑤ CHANNEL LINING (RIP RAP)(24" THICK)(130 LB)
- NOTES:
CROSS SECTION SHALL DETERMINE GRADING UNLESS OTHERWISE DIRECTED BY PROJECT ENGINEER.
CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE.
TEMPORARY EROSION CONTROL SHALL INCLUDE SILT FENCING AND SEDIMENT CHECK DAMS (HAY).
CONTRACTOR IS RESPONSIBLE FOR SUBMITTING NOI AND SWPPP TO LA DEC.
(1) SIDE SLOPE TRANSITION IN 20'

BEAST
ENGINEERING
LLC

| | | |
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| NO. | DATE | REVISION DESCRIPTION |
| 2 | 01-01-14 | ALLOWED ALL BASE TYPES & 13" THICKNESS |
| 1 | | |

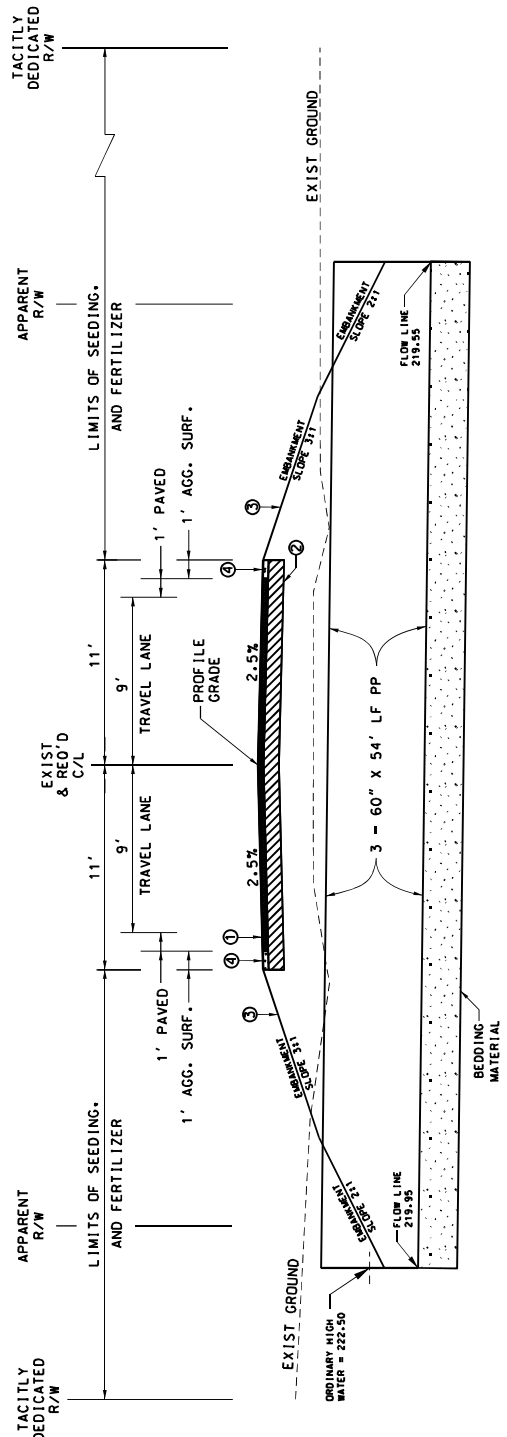
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| DATE | BY |
| AUG 5, 2017 | |

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| DESOTO | PAYMENT |
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| | |
|-------------------|-----------------|
| WOOD SPRINGS ROAD | TYPICAL SECTION |
|-------------------|-----------------|

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| BEAST ENGINEERING LLC |
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CROSS SECTION @ STA. 32+63.00
WOOD SPRINGS ROAD

ALL STRUCTURES SHALL HAVE A FLOW LINE ELEVATION SET 20% BELOW EXISTING GRADE
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