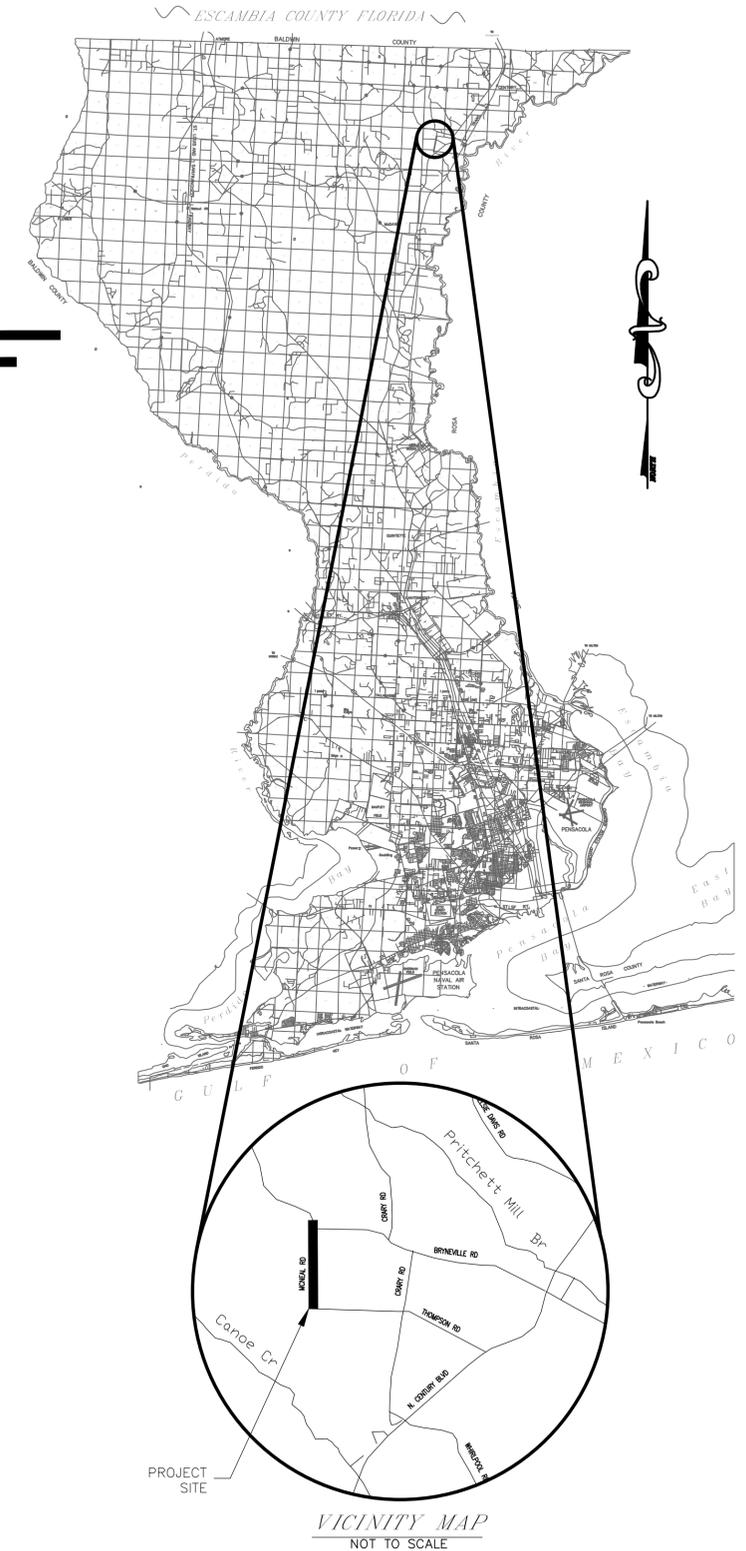




**BOARD OF COUNTY COMMISSIONERS
 ESCAMBIA COUNTY, FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING / INFRASTRUCTURE DIVISION**



INDEX OF ROADWAY PLANS

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thompson
ENGINEERING

Consulting Engineers/Surveyors
 6706 C Plantation Boulevard
 Pensacola, Florida 32504
 Phone: (850) 202-3030

DATE PREPARED: JUNE 2016 DATE REVISED: N/A

ESCAMBIA COUNTY PUBLIC WORKS

3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505
 PHONE: 850-595-3440
 FAX: 850-595-3444

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE LATEST ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERRED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

**PLANS PROPOSED FOR
 MCNEAL ROAD
 DIRT ROAD PAVING**

**SECTION 23, TOWNSHIP 5 NORTH, RANGE 31 WEST
 ESCAMBIA COUNTY, FLORIDA**

THOMPSON PROJECT No.: 15-1101-0297

**RELEASED FOR RE-BID
 NOT FOR CONSTRUCTION**

COMMISSIONERS

- | | |
|-----------------------|---|
| DISTRICT ONE | WILSON ROBERTSON (VICE CHAIRMAN) |
| DISTRICT TWO | DOUG UNDERHILL |
| DISTRICT THREE | LUMON MAY |
| DISTRICT FOUR | GROVER C. ROBINSON IV (CHAIRMAN) |
| DISTRICT FIVE | STEVEN BARRY |



| | |
|--|---------------------------------|
| PROJECT MANAGER: COOPER SAUNDERS | |
| SECTION / TOWNSHIP / RANGE: 23 / 5 NORTH / 31 WEST | DISTRICT: 5 |
| PROJECT ENGINEER: REBECCA JONES, P.E. | REG FLA ENG NO: 66395 |
| SIGNATURE: | DATE: |

GENERAL NOTES:

- THE CONTRACTOR SHALL NOTIFY THE COUNTY DESIGN ENGINEER OR DESIGNEE 48 HOURS PRIOR TO CONSTRUCTION.
- ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY THE ESCAMBIA COUNTY ENGINEER SHALL BE COMPLIED WITH IN EVERY DETAIL.
- ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.
- THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT EROSION AND ANY OFF SITE SEDIMENT TRANSPORT RESULTING FROM INCREASED RUNOFF DURING CONSTRUCTION BY PROVIDING SILT FENCE AND/OR STAKED HAY BALES AS REQUIRED BY FDOT INDEX 102, THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL INSPECTOR'S MANUAL, 2000 EDITION, OR AS INDICATED ON THE PLANS. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ASSOCIATED DISTURBED AREAS ARE STABILIZED AS TO REDUCE SEDIMENT RUNOFF, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR DESIGNEE.
- ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ESCAMBIA COUNTY OR ITS DESIGNEE WILL ASSIST CONTRACTOR WITH REQUIRED PERMITS.
- THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING AND/OR CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS (VERTICAL CONTROL) AS NEEDED DURING CONSTRUCTION. ALL PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR DESIGNEE IMMEDIATELY. ANY ESCAMBIA COUNTY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A HARN/GPS NETWORK MONUMENT OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENT IS DISTURBED OR DESTROYED THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF THE MONUMENTS AND HAVE THE MONUMENT'S POSITION DETERMINED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER USING GUIDELINES AS ESTABLISHED BY NATIONAL GEODETIC SURVEY FOR BLUE BOOKING AND APPROVAL.
- EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.
- EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS.
- ALL ROADWAY CONSTRUCTION SHALL COMPLY WITH THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.
- ALL MATERIALS, TESTING AND CONSTRUCTION METHODS SHALL CONFORM TO THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.
- ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERRED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.
- EXISTING STREET AND ROAD NAME SIGNS ON THE PROJECT SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLES. ALL OTHER EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE TAKEN DOWN AND STOCKPILED WITHIN THE R/W LIMITS BY THE CONTRACTOR AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE. ANY EXISTING SIGNS THAT ARE TO BE RELOCATED AND ARE DAMAGED BEYOND USE BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE 10' OPEN LANE AT ALL TIMES. NO OPEN EXCAVATION SHALL REMAIN OVER NIGHT. CONTRACTOR SHALL RESTORE ROAD TO TWO LANES OF TRAFFIC AT THE END OF EACH WORK DAY.

16. CONTRACTOR SHALL COMPLY WITH ALL F.D.E.P.

17. ONLY ACCESS TO THE ROAD R/W AS SHOWN IS GUARANTEED BY THE COUNTY. PRIVATE R/W REQUIRED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION SHALL BE ACQUIRED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION OR ASSISTANCE FROM THE COUNTY.

18. IN THE EVENT THAT SURVEY MONUMENTATION OR REFERENCE POINTS ARE MISSING OR HAVE BEEN DESTROYED, PLEASE CONTACT:

ESCAMBIA COUNTY SURVEYOR
3363 WEST PARK PLACE
PENSACOLA, FLORIDA 32505
PH (850) 595-3427

19. VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.

20. GRADED AGGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCROACHES WITHIN TWO (2) FEET OF THE BOTTOM OF BASE.

21. ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED IN PLANS.

22. ALL COMPACTED FILL SHALL BE PLACED IN 4" LIFTS FOR HAND POWERED TAMPERS AND 8" LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS. CONTRACTOR SHALL COMPLY WITH ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT.

23. MAINTENANCE OF TRAFFIC AS PER FDOT INDEX 600.

24. ALL SPEED BUMPS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED TO THE LATEST ESCAMBIA COUNTY DESIGN SPECIFICATIONS. ALL COSTS FOR REPLACEMENT OF SAID SPEED BUMPS SHALL BE INCIDENTAL TO OTHER ITEMS AND NO ADDITIONAL COMPENSATION SHALL BE CONSIDERED.

25. ALL EXISTING MAILBOXES INTERFERING WITH NEW CONSTRUCTION SHALL BE RELOCATED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH ESCAMBIA COUNTY TECHNICAL SPECIFICATION, FDOT DESIGN STANDARDS AND UNITED POSTAL REQUIREMENTS. ALL EXISTING BRICK MAILBOXES WITHIN LIMITS OF CONSTRUCTION OR COUNTY RIGHT OF WAY SHALL BE REMOVED AND PLACED ON THE PROPERTY LINE OF THE OWNER. CONTRACTOR SHALL REPLACE EXISTING BRICK MAILBOX WITH APPROVED PLASTIC BREAK AWAY MAILBOX.

26. THE CONTRACTOR SHALL, AT A MINIMUM, MATCH EXISTING SIGNING AND PAVEMENT MARKINGS. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE LATEST FDOT DESIGN STANDARDS. THE CONTRACTOR SHALL CONTACT THE COUNTY TRAFFIC DEPARTMENT PRIOR TO INSTALLATION OF ANY SIGNING AND PAVEMENT MARKINGS.

27. WHERE UNSUITABLE MATERIAL, AS DEFINED BY THE COUNTY SPECIFICATIONS SECTION 02300, 1.3(l), IS ENCOUNTERED IN THE AREAS PROPOSED FOR PAVING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY ENGINEER OR DESIGNEE PRIOR TO ANY EXCAVATION.

28. PIPE LENGTHS SHOWN IN THE PLANS DO NOT INCLUDE THE LENGTH OF PIPE THAT MUST BE INSTALLED WITH THE MITERED END SECTION. THEREFORE, ALL PIPES LENGTHS ASSOCIATED WITH MITERED END SECTIONS SHALL BE PAID FOR IN THE UNIT COST OF THE MITERED END SECTION.

29. IF ARCHAEOLOGICAL MATERIAL/PREHISTORIC ARTIFACTS SUCH AS POTTERY OR CERAMICS, STONE TOOLS OR METAL IMPLEMENTS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN CULTURES, OR EARLY COLONIAL OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME, THE PROJECT SHOULD CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE IMMEDIATE VICINITY OF SUCH DISCOVERIES. THE APPLICANT/RECIPIENT, OR OTHER DESIGNEE, SHOULD CONTACT THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES, THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AND THE DSH/FEMA REGION IV ENVIRONMENTAL OFFICER AND FDEM STATE ENVIRONMENTAL LIAISON OFFICER FOR FURTHER GUIDANCE. PROJECT ACTIVITIES SHOULD NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION FROM THE DIVISION OF HISTORICAL RESOURCES.

30. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK MUST STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH F.S. 872.05.

UTILITY NOTES:

1. THE LOCATION SHOWN FOR EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR AGREES TO BE COMPLETELY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES.

2. UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE UTILITY OWNER CAN SPOT VERIFY AND/OR EXPOSE THEIR UTILITIES.

KNOWN UTILITIES OWNERS INCLUDE:

WATER - CENTRAL WATER WORKS
BILLY MERCHANT
1101 BYRNEVILLE ROAD
CENTURY, FL 32535 PH: (850) 256-3849

TELEPHONE - AT&T FLORIDA
STEVE HENNINGTON
6689 MAGNOLIA STREET
MILTON, FL 32470 PH: (850) 623-3811

TRAFFIC DEPARTMENT
ESCAMBIA COUNTY PUBLIC WORKS
3363 WEST PARK PLACE
PENSACOLA, FL 32505 PH: 595-3404

CABLE - BRIGHT HOUSE
MR. RAY LEPLEY
240 HIGHWAY 97 SOUTH
CANTONMENT, FL 32533 PH: (850) 968-0399

ELECTRIC - ESCAMBIA RIVER
ALEX SCANLON
ELECTRIC COOPERATIVE, INC
3425 HWY 4
JAY, FL 32565 PH: (850) 675-4521

PIPELINE - GENESIS PIPELINE, USA, L.P.
MR. SCOTT CHANDLER
114 STANLEY ROAD
BREWTON, AL 36426 PH: (251) 296-1439

SUNSHINE STATE ONE-CALL
7200 LAKE ELLENOR DRIVE, SUITE 200
ORLANDO, FL. 32809 PH: (800) 432-4770

NATURAL GAS-TOWN OF CENTURY
JOE BROWN
7995 N. CENTURY BLVD.
CENTURY, FL 32535 PH: (850) 256-3208

3. AT&T FLORIDA WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM - 4:30 PM, MONDAY THRU FRIDAY. NO NIGHT OR WEEKEND WORK.

4. ALL CABLE DAMAGE MUST BE REPORTED TO THE ATT FLORIDA REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR 877-737-2478 IF USING A CELL PHONE.

5. ALL LOOP DETECTOR INSTALLATION SHALL BE DONE AS PER FDOT INDEX 17781.

6. CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.

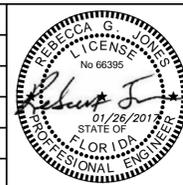
7. UTILITIES TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. NECESSARY REPAIRS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS AND SHALL BE TO THE SATISFACTION OF UTILITY OWNERS.

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE COPIED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE THOMPSON ENGINEERING REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. UNAUTHORIZED USE IS SUBJECT TO LEGAL ACTION UNDER STATE AND FEDERAL LAW.



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ESCAMBIA COUNTY
ENGINEERING DEPARTMENT



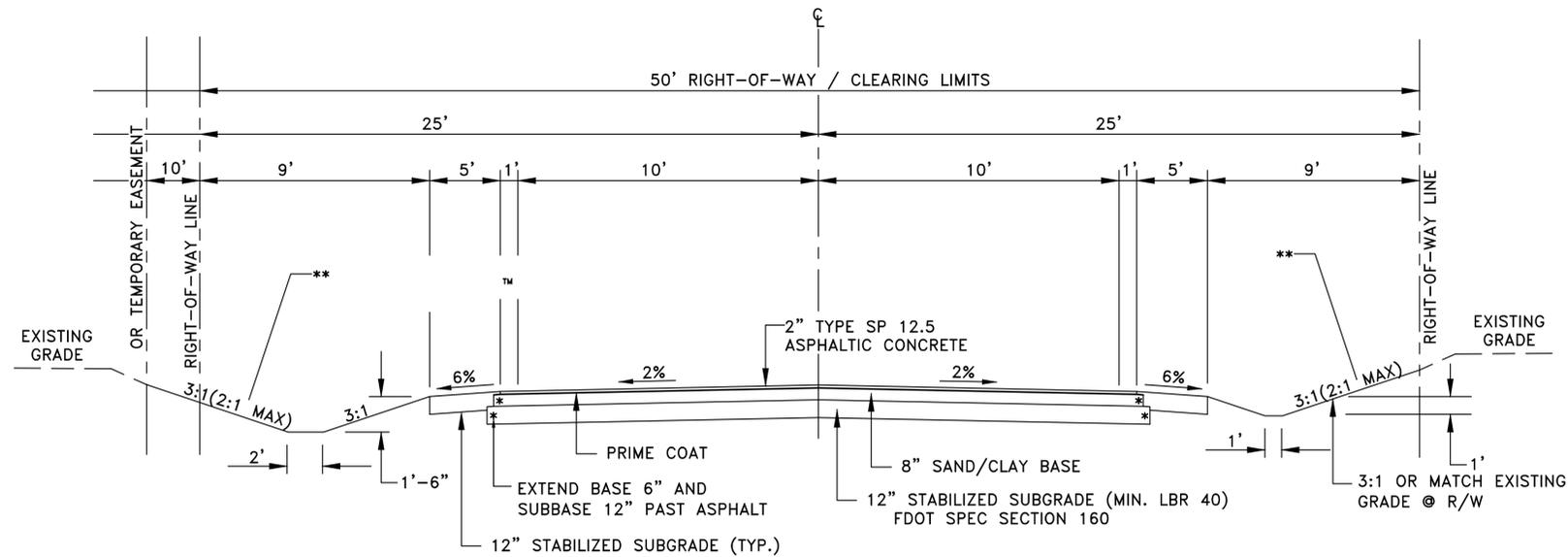
6706-C PLANTATION ROAD
PENSACOLA, FL 32504

TEL: (850) 202-3030

| SCALE: | PLOT SCALE: | DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE : | JOB NO. : | DRAWING NO. | REVISION NO. : |
|----------|-------------|-----------|-------------|--------------|-----------|--------------|-------------|----------------|
| SEE PLAN | SEE PLAN | RGJ | LJG | LJG | JUNE 2016 | 15-1101-0297 | 2 OF 31 | |

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

GENERAL NOTES



** WHERE 2:1 SLOPES ARE REQUIRED TO TIE TO R/W, PLACE STABILIZATION MAT TYPE R-1 (OR APPROVED EQUIVALENT) ON ENTIRE SLOPES

STA 10+33 TO 36+25 (RIGHT SIDE TIE IN SLOPE)

DESIGN SPEED
 STA.10+00 TO 15+00 - 20 MPH
 STA.11+50 TO 35+00 - 40 MPH
 STA.35+00 TO 36+25 - 20 MPH

TYPICAL ROADWAY SECTION

NOT TO SCALE

*NOTE:
 REFER TO GEOTECH REPORT FOR
 ADDITIONAL REQUIREMENTS

| LEFT SWALES | | | | |
|--------------|------------|-------------|-------|-------|
| FROM STATION | TO STATION | DESCRIPTION | WIDTH | DEPTH |
| 10+33 | 13+50 | SOD | 2'-0" | 1'-6" |
| 13+50 | 25+50 | CONCRETE | 2'-0" | 1'-6" |
| 25+50 | 36+25 | SOD | 2'-0" | 1'-6" |
| RIGHT SWALES | | | | |
| 10+33 | 36+25 | SOD | 1'-0" | 1'-0" |

EXISTING CONDITIONS LEGEND

- LEGEND:**
- ◇ - POWER POLE
 - ← - GUY WIRE
 - ⊠ - TELEPHONE PEDESTAL
 - ⊠ - WATER METER
 - ⊠ - WATER VALVE
 - ⊠ - FIRE HYDRANT
 - ⊠ - GAS VALVE
 - ⊠ - MAIL BOX
 - ⊠ - SIGN
 - - UTILITY MARK-OUT (BY OTHERS)
 - X 155.36 - SPOT ELEVATION
 - R/W - RIGHT-OF-WAY
 - ORB - OFFICIAL RECORD BOOK
 - TBM - TEMPORARY BENCHMARK
 - I.D. # - IDENTIFICATION NUMBER
 - W.W.F. - WOVEN WIRE FENCE
 - W.R.F. - WOOD RAIL FENCE
 - C.L.F. - CHAIN LINK FENCE
 - C.P.P. - CORRUGATED PLASTIC PIPE
 - C.M.P. - CORRUGATED METAL PIPE
 - R.C.P. - REINFORCED CONCRETE PIPE
 - INV. ELEV. - INVERT ELEVATION
 - - R/W LINE
 - - PROPERTY LINE
 - - UNDERGROUND STORM WATER LINE
 - G G G - UNDERGROUND GAS LINE
 - 149--- - CONTOUR LINE MAJOR
 - 150--- - CONTOUR LINE MINOR
 - OHE&T - OVERHEAD UTILITY LINE
 - ~~~~~ - WOODS LINE
 - ▒ - ASPHALT
 - ▒ - GRADED ROAD

PROPOSED CONDITIONS LEGEND

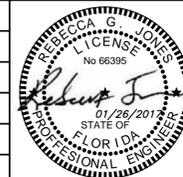
- PLAN VIEW LEGEND**
- GUARD RAIL
 - >--- DITCH CENTER-LINE
 - SF SF SILT FENCE
 - CLEARING LIMITS
 - 6"WL WATER LINE
 - ROADWAY CENTER-LINE
 - ████████ STORMWATER PIPE
 - ▒ CONCRETE DITCH
 - ▒ RIP RAP
 - ▒ PROPOSED ROADWAY
 - ▒ MITERED END SECTION (MES)
 - ▒ CONCRETE HEADWALL
 - FLOW ARROW
 - ⊠ GATE VALVE
- PROFILE VIEW LEGEND**
- EXISTING GRADE
 - PROPOSED CENTERLINE
 - LEFT SWALE
 - RIGHT SWALE
 - EDGE OF PAVEMENT
 - PROPOSED WATER MAIN

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ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT



6706-C PLANTATION ROAD
 PENSACOLA, FL 32504
 SCALE: SEE PLAN PLOT SCALE: SEE PLAN DRAWN BY: RGJ CHECKED BY: LUG APPROVED BY: LUG DATE: JUNE 2016 TEL: (850) 202-3030

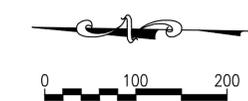
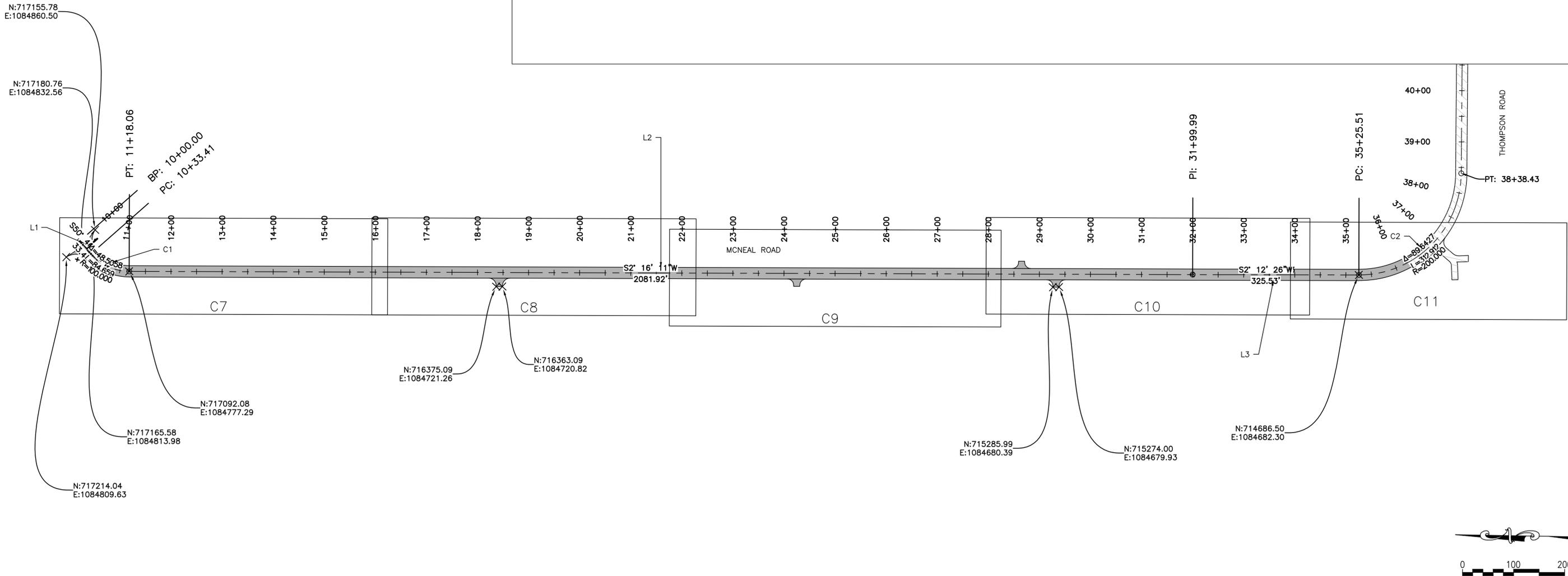
DESIGN SERVICES FOR MCNEAL ROAD
 DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

TYPICAL SECTION & LEGENDS

JOB NO.: 15-1101-0297 DRAWING NO.: 3 OF 31 REVISION NO.:

| Line Table: Alignments | | | | |
|------------------------|---------|------------------|-------------------------------|-------------------------------|
| Line # | Length | Direction | Start Point | End Point |
| L1 | 33.41 | S50° 46' 31.56"W | E: 1084839.85 N: 717186.71 | E: 1084813.98 N: 717165.58 |
| L2 | 2081.92 | S2° 16' 10.78"W | E: 1084777.29 N: 717092.08 | E: 1084694.84 N: 715011.79 |
| L3 | 325.53 | S2° 12' 26.34"W | E: 1084694.84 N: 715011.79 | E: 1084682.30 N: 714686.50 |
| L4 | 1649.80 | S87° 26' 07.28"E | E: 1084873.20 N: 714479.00 | E: 1086521.35 N: 714405.18 |
| L5 | 212.96 | N83° 40' 21.22"E | E: 1087412.35 N: 714434.44 | E: 1087624.02 N: 714457.92 |
| L6 | 2565.31 | S59° 46' 04.93"E | E: 1087992.24 N: 714379.97 | E: 1090208.65 N: 713088.33 |
| L7 | 52.83 | N40° 36' 04.29"W | E: 1087718.04 N: 710865.01 | E: 1087683.66 N: 710905.12 |
| L8 | 158.37 | N76° 51' 29.75"W | E: 1087497.50 N: 711018.18 | E: 1087343.28 N: 711054.18 |
| L9 | 1433.67 | N9° 48' 35.48"E | E: 1087229.57 N: 711225.81 | E: 1087473.84 N: 712638.52 |
| L10 | 846.17 | N10° 25' 06.00"E | E: 1087473.84 N: 712638.52 | E: 1087626.86 N: 713470.74 |
| L11 | 999.56 | N9° 59' 30.22"E | E: 1087626.86 N: 713470.74 | E: 1087800.29 N: 714455.14 |
| L13 | 950.85 | N10° 04' 46.06"E | E: 1087800.29 N: 714455.14 | E: 1087966.70 N: 715391.31 |
| L14 | 998.75 | N9° 16' 18.83"E | E: 1087966.70 N: 715391.31 | E: 1088127.62 N: 716377.02 |

| Curve Table: Alignments | | | | | |
|-------------------------|---------|--------|------------------|-------------------------------|-------------------------------|
| Curve # | Radius | Length | Chord Direction | Start Point | End Point |
| C1 | 100.00 | 84.66 | S26° 31' 21.17"W | E: 1084813.98 N: 717165.58 | E: 1084777.29 N: 717092.08 |
| C2 | 200.00 | 312.91 | S42° 36' 50.47"E | E: 1084682.30 N: 714686.50 | E: 1084873.20 N: 714479.00 |
| C3 | 5750.00 | 892.38 | N88° 07' 06.97"E | E: 1086521.35 N: 714405.18 | E: 1087412.35 N: 714434.44 |
| C4 | 600.00 | 382.85 | S78° 02' 51.85"E | E: 1087624.02 N: 714457.92 | E: 1087992.24 N: 714379.97 |
| C5 | 350.00 | 221.48 | N58° 43' 47.02"W | E: 1087683.66 N: 710905.12 | E: 1087497.50 N: 711018.18 |
| C6 | 150.00 | 226.90 | N33° 31' 27.13"W | E: 1087343.28 N: 711054.18 | E: 1087229.57 N: 711225.81 |



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ESCAMBIA COUNTY ENGINEERING DEPARTMENT

thompson ENGINEERING

6706-C PLANTATION ROAD
PENSACOLA, FL 32504

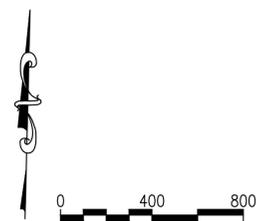
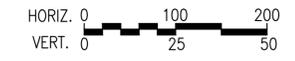
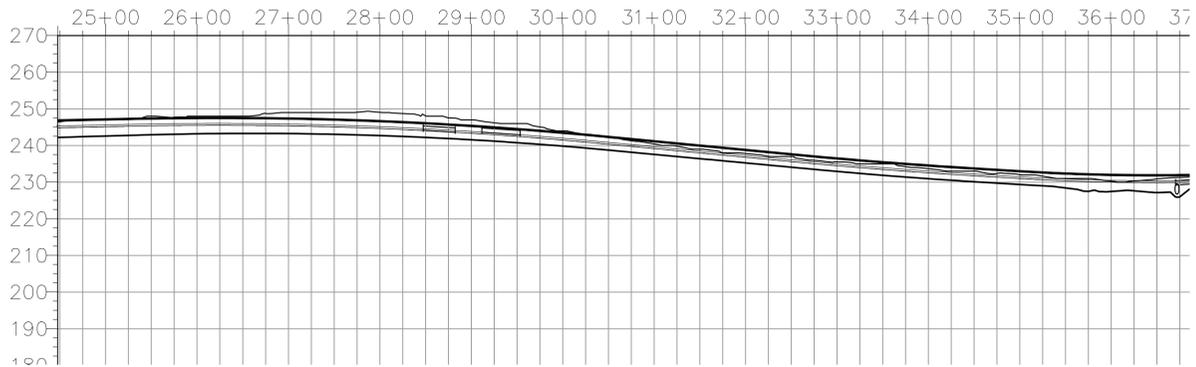
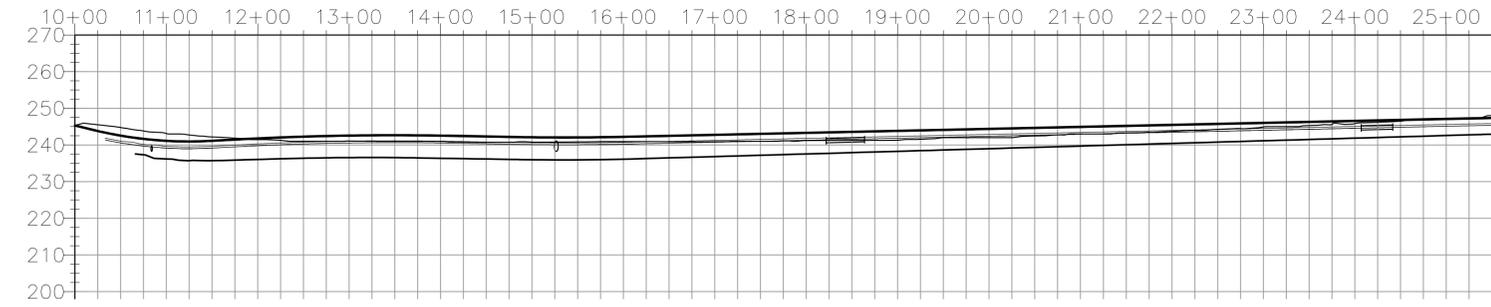
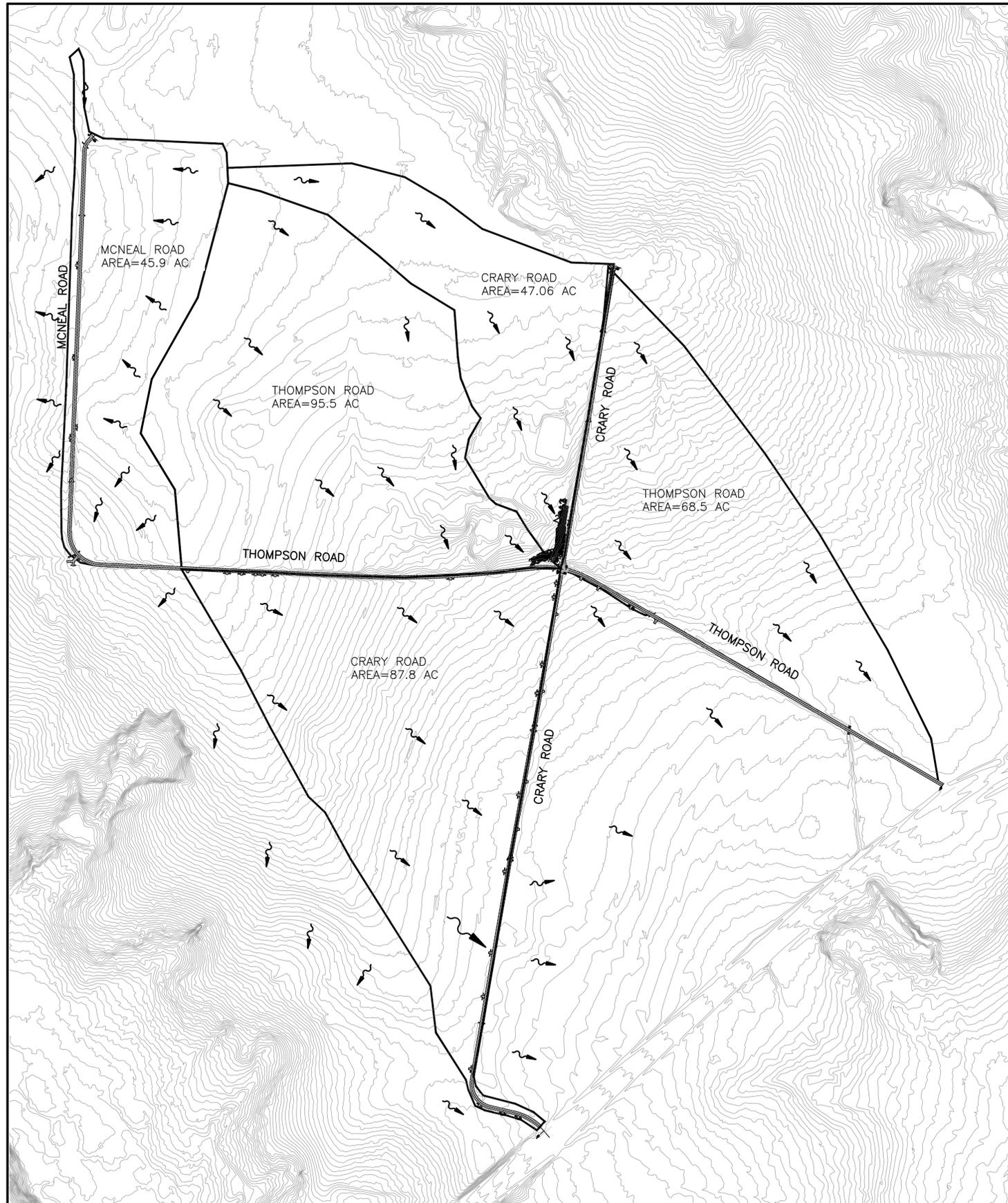
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TEL: (850) 202-3030

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

HORIZONTAL CONTROL PLAN

DATE: JUNE 2016 JOB NO.: 15-1101-0297 DRAWING NO.: 4 OF 31 REVISION NO.:



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ESCAMBIA COUNTY
ENGINEERING DEPARTMENT

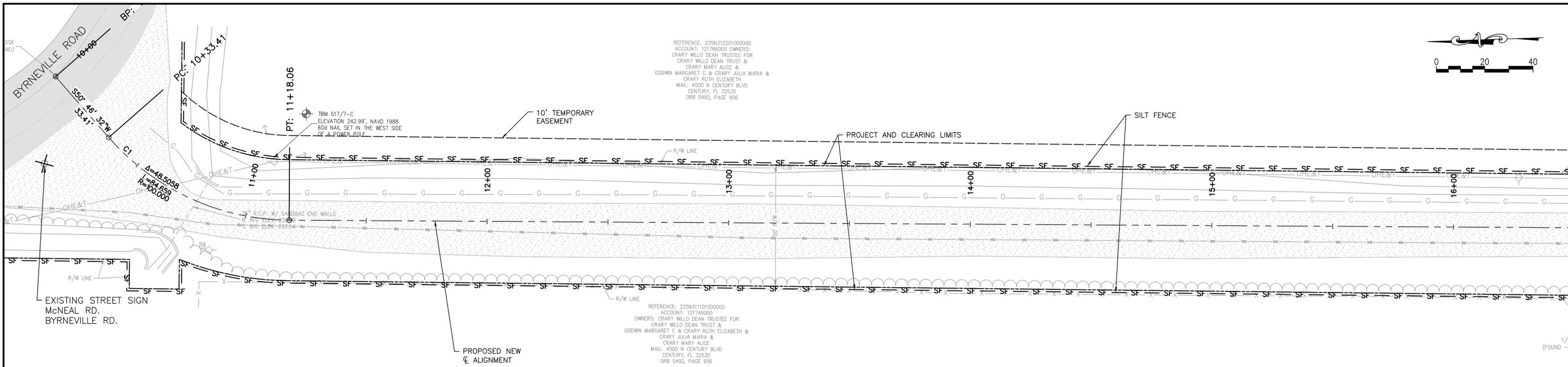


6706-C PLANTATION ROAD
PENSACOLA, FL 32504
SCALE: SEE PLAN PLOT SCALE: SEE PLAN DRAWN BY: RGJ CHECKED BY: LJG APPROVED BY: LJG TEL: (850) 202-3030

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

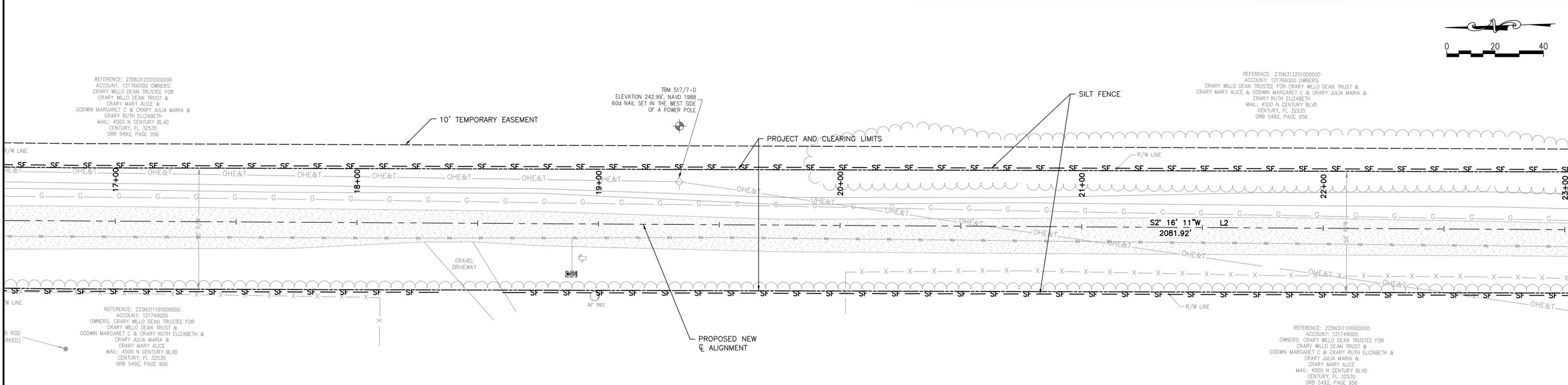
DRAINAGE MAP

DATE: JUNE 2016 JOB NO.: 15-1101-0297 DRAWING NO.: 5 OF 31 REVISION NO.:



McNEAL ROAD

(50' RIGHT-OF-WAY)



McNEAL ROAD

(50' RIGHT-OF-WAY)

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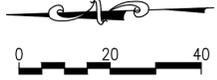
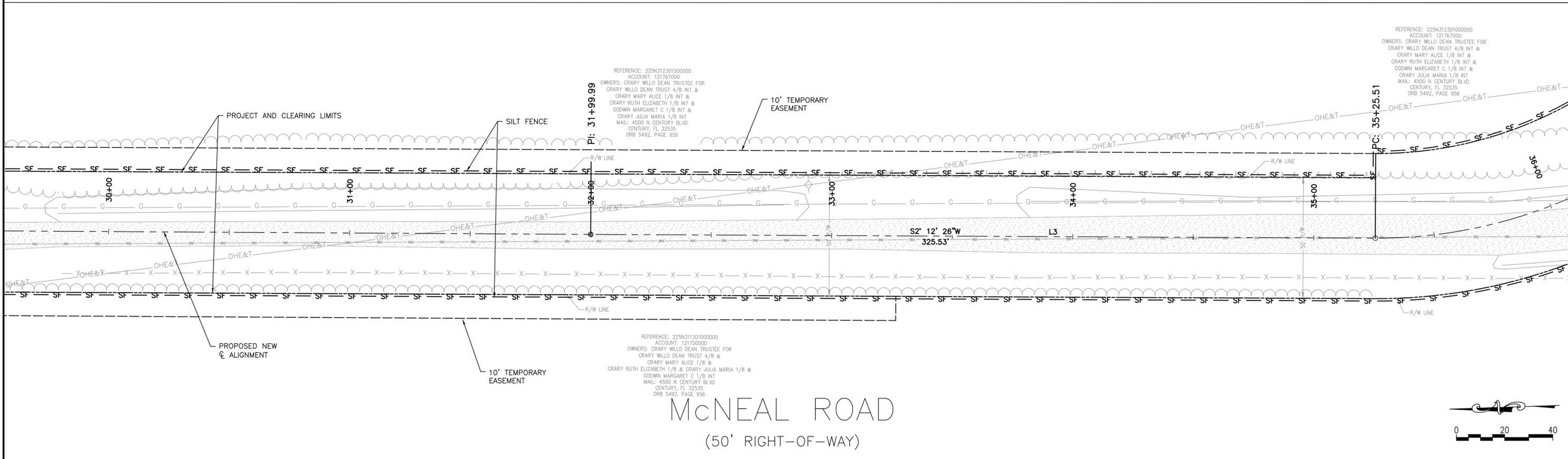
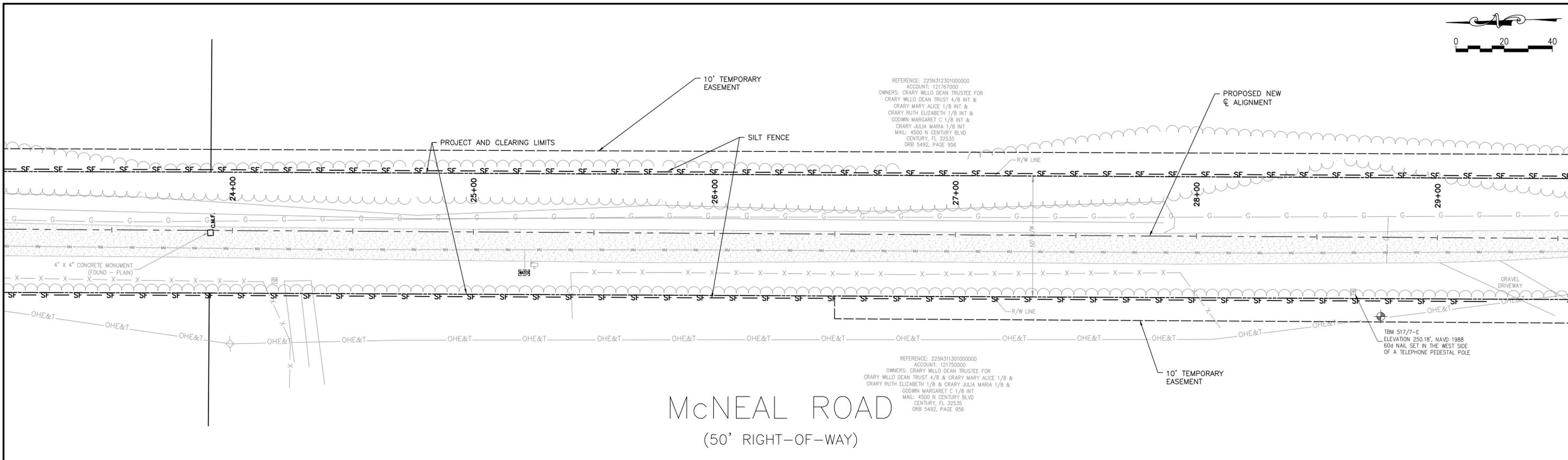
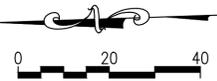
**ESCAMBIA COUNTY
ENGINEERING DEPARTMENT**

**thompson
ENGINEERING**

6706-C PLANTATION ROAD
PENSACOLA, FL 32504

SCALE: SEE PLAN PLOT SCALE: SEE PLAN DRAWN BY: RGJ CHECKED BY: LJC APPROVED BY: LJC TEL: (850) 202-3030

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| DESIGN SERVICES FOR MCNEAL ROAD DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS | |
| EXISTING CONDITIONS EROSION AND SEDIMENT CONTROL | |
| DATE : JUNE 2016 | JOB NO. : 15-1101-0297 |
| DRAWING NO. : 6 OF 31 | REVISION NO. : |

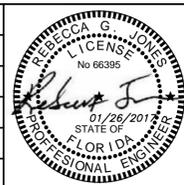


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ESCAMBIA COUNTY
ENGINEERING DEPARTMENT



6706-C PLANTATION ROAD
PENSACOLA, FL 32504

SCALE: SEE PLAN

PLOT SCALE: SEE PLAN

DRAWN BY: RGJ

CHECKED BY: LJG

APPROVED BY: LJG

TEL: (850) 202-3030

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

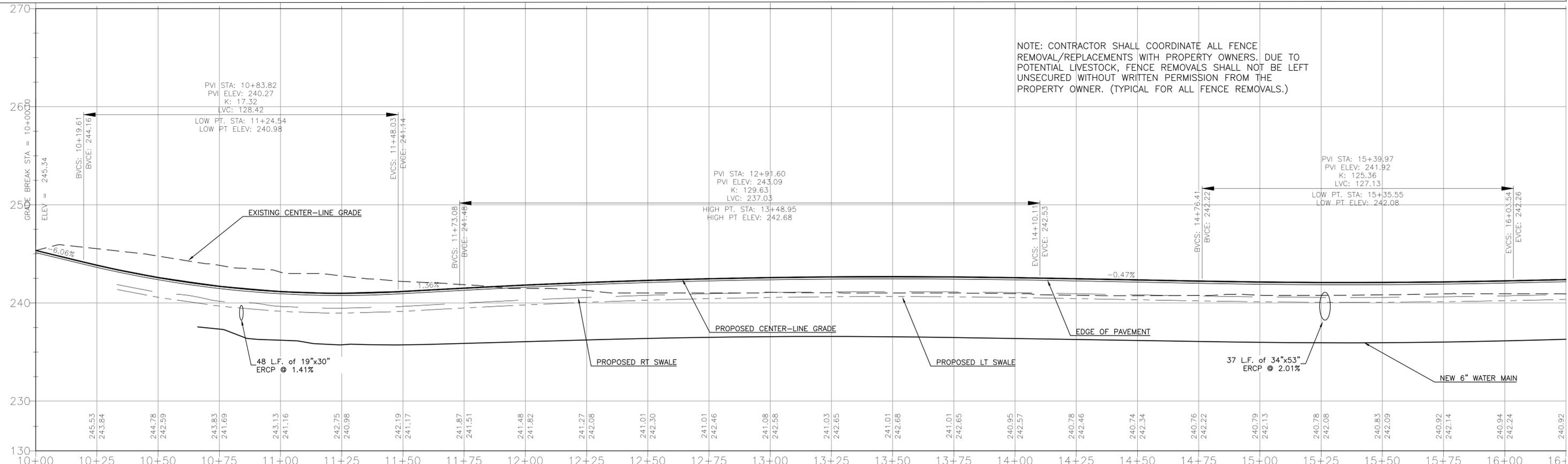
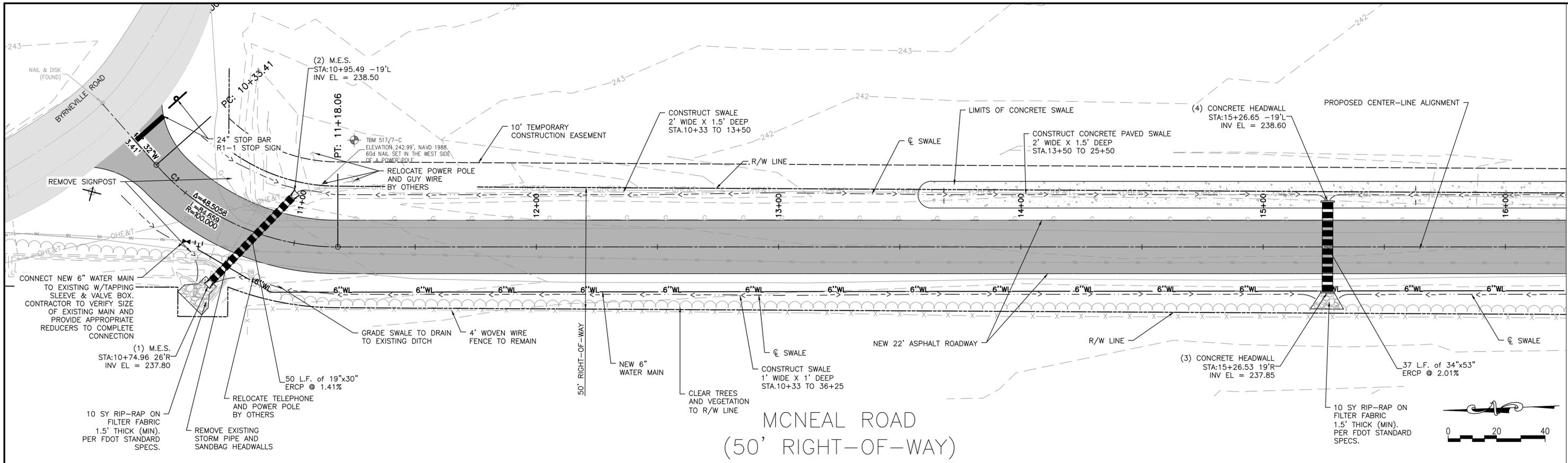
EXISTING CONDITIONS
EROSION AND SEDIMENT CONTROL

DATE: JUNE 2016

JOB NO.: 15-1101-0297

DRAWING NO.: 7 OF 31

REVISION NO.:



NOTE: CONTRACTOR SHALL COORDINATE ALL FENCE REMOVAL/REPLACEMENTS WITH PROPERTY OWNERS. DUE TO POTENTIAL LIVESTOCK, FENCE REMOVALS SHALL NOT BE LEFT UNSECURED WITHOUT WRITTEN PERMISSION FROM THE PROPERTY OWNER. (TYPICAL FOR ALL FENCE REMOVALS.)

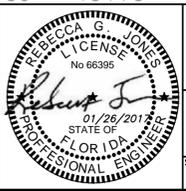
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HORIZ. 0 20 40
VERT. 0 5 10

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**ESCAMBIA COUNTY
ENGINEERING DEPARTMENT**

**thompson
ENGINEERING**

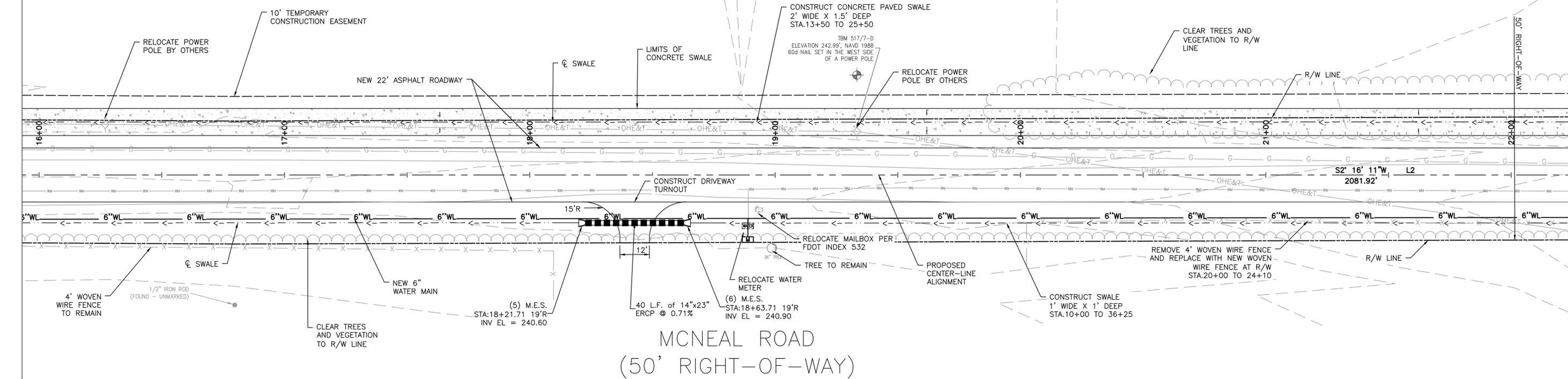
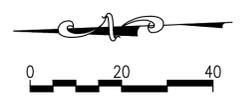
6706-C PLANTATION ROAD
PENSACOLA, FL 32504
TEL: (904) 202-3030

SCALE: SEE PLAN PLOT SCALE: SEE PLAN DRAWN BY: RGJ CHECKED BY: LJC APPROVED BY: LJC DATE: JUNE 2016

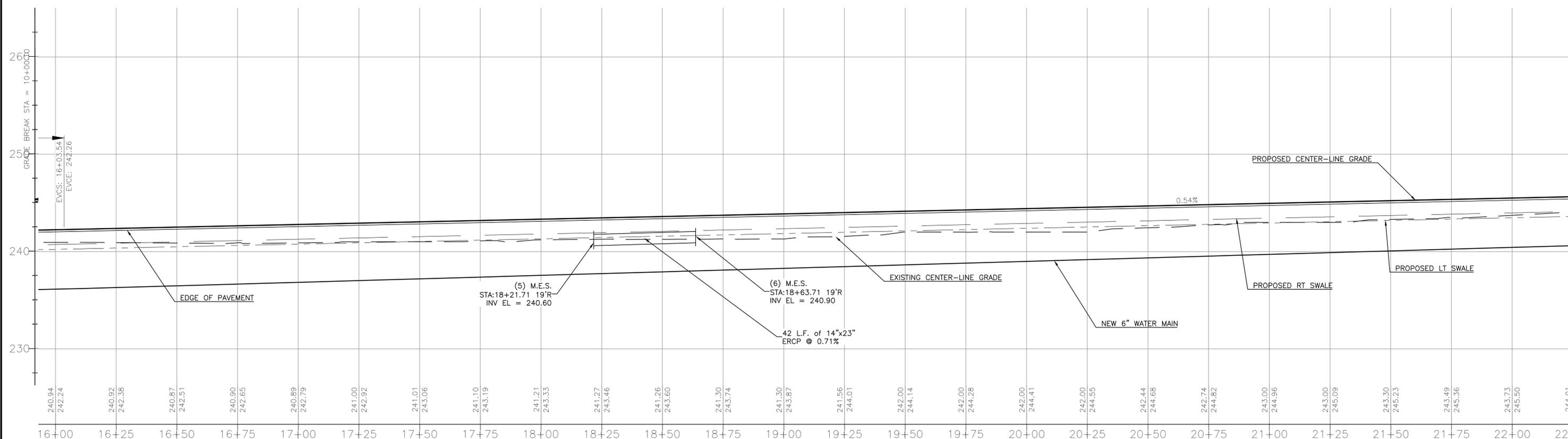
DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

PLAN & PROFILE

JOB NO.: 15-1101-0297 DRAWING NO.: 8 OF 31 REVISION NO.:

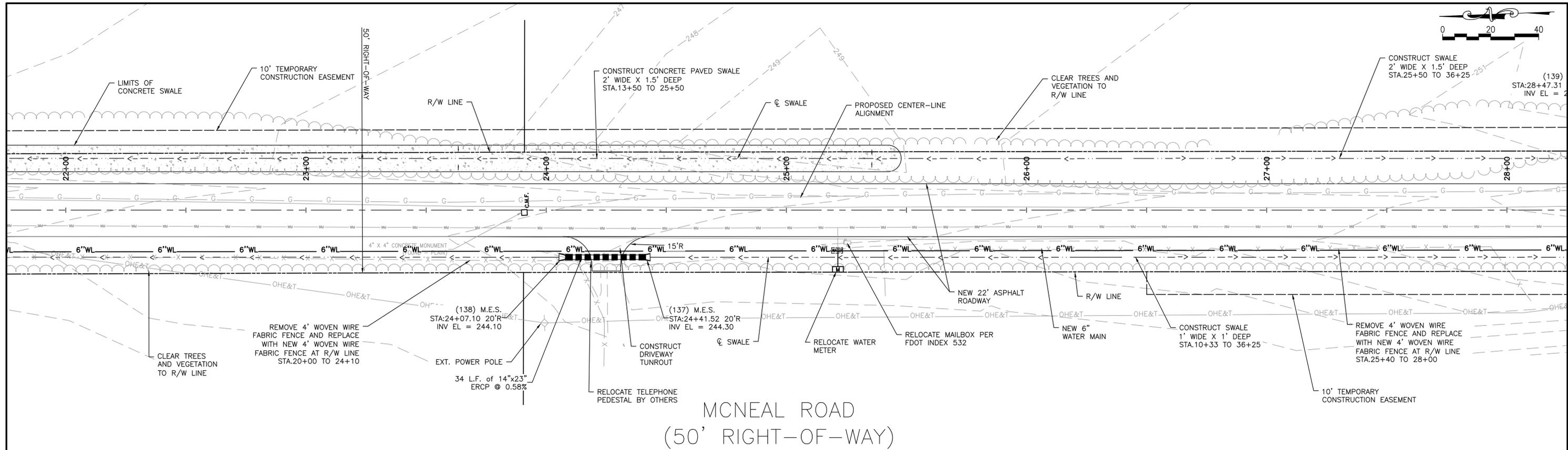


MCNEAL ROAD
(50' RIGHT-OF-WAY)

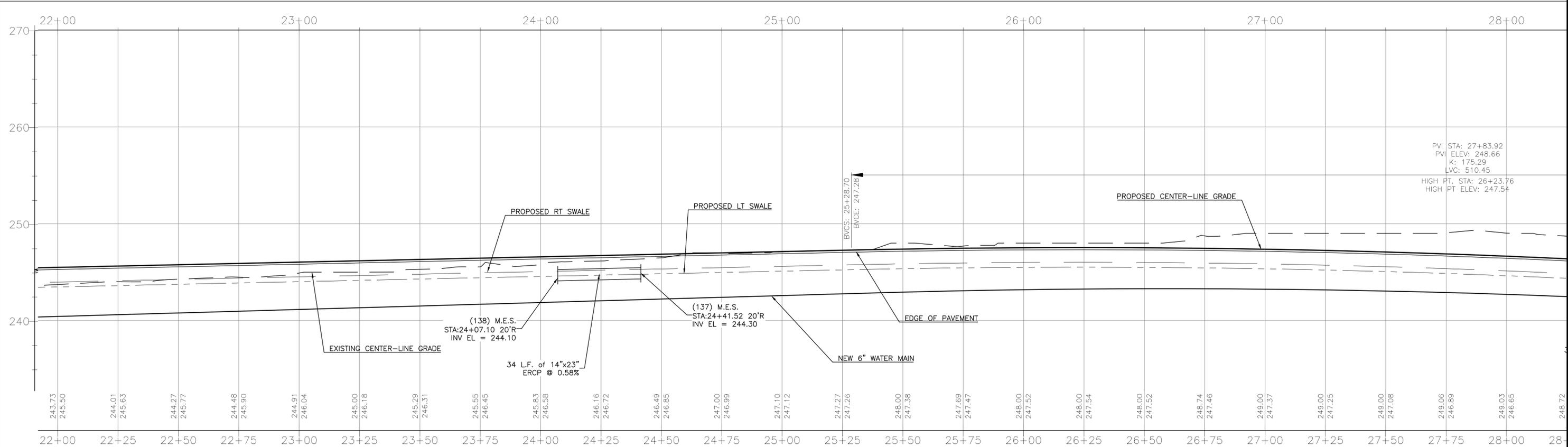


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| <p>THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE COPIED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE THOMPSON ENGINEERING REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. UNAUTHORIZED USE IS SUBJECT TO LEGAL ACTION UNDER STATE AND FEDERAL LAW.</p> | | <p>HORIZ. 0 20 40 VERT. 0 5 10</p> | <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>REVISION NO.</td><td>DESCRIPTION</td><td>DATE</td><td>BY:</td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table> | REVISION NO. | DESCRIPTION | DATE | BY: | | | | | | | | | | | | | | | | | | | | | | <p>ESCAMBIA COUNTY ENGINEERING DEPARTMENT</p> <p>thompson ENGINEERING</p> <p>6706-C PLANTATION ROAD PENSACOLA, FL 32504</p> <p>SCALE: SEE PLAN PLOT SCALE: SEE PLAN DRAWN BY: RGJ CHECKED BY: LJC APPROVED BY: LJC TEL: (850) 202-3030</p> | <p>DESIGN SERVICES FOR MCNEAL ROAD DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS</p> <p>PLAN & PROFILE</p> <p>DATE: JUNE 2016 JOB NO.: 15-1101-0297 DRAWING NO.: 9 OF 31 REVISION NO.:</p> |
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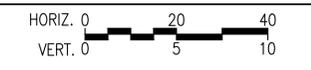
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MCNEAL ROAD
(50' RIGHT-OF-WAY)

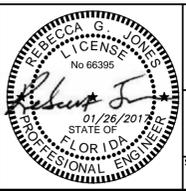


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ESCAMBIA COUNTY ENGINEERING DEPARTMENT

thompson ENGINEERING

6706-C PLANTATION ROAD
PENSACOLA, FL 32504

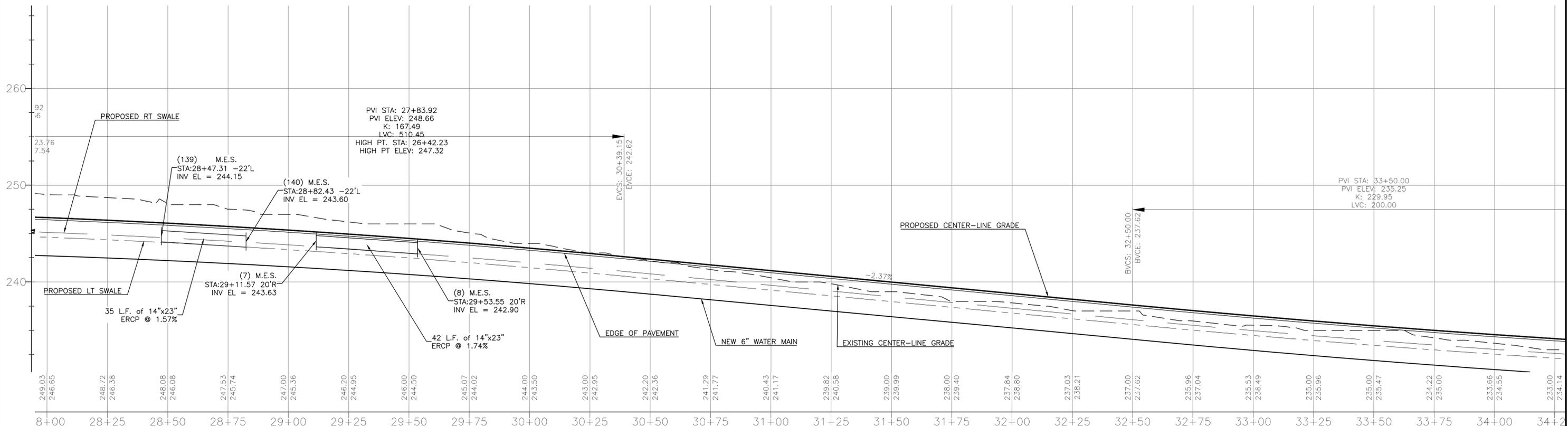
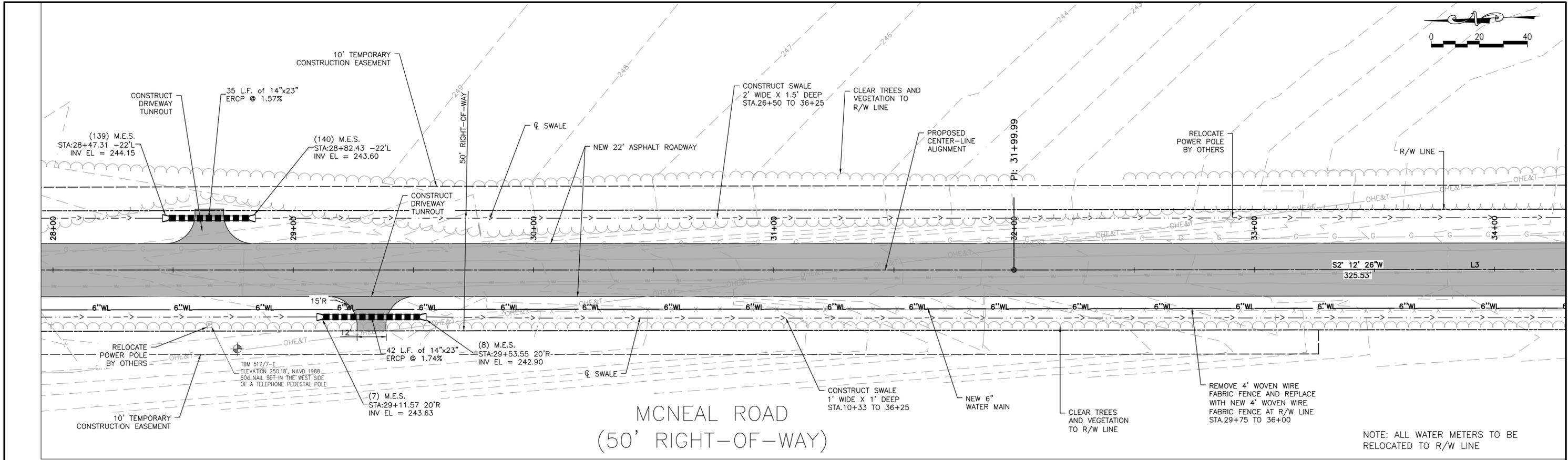
TEL: (850) 202-3030

SCALE: SEE PLAN PLOT SCALE: SEE PLAN DRAWN BY: RGJ CHECKED BY: LJC APPROVED BY: LJC DATE: JUNE 2016

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

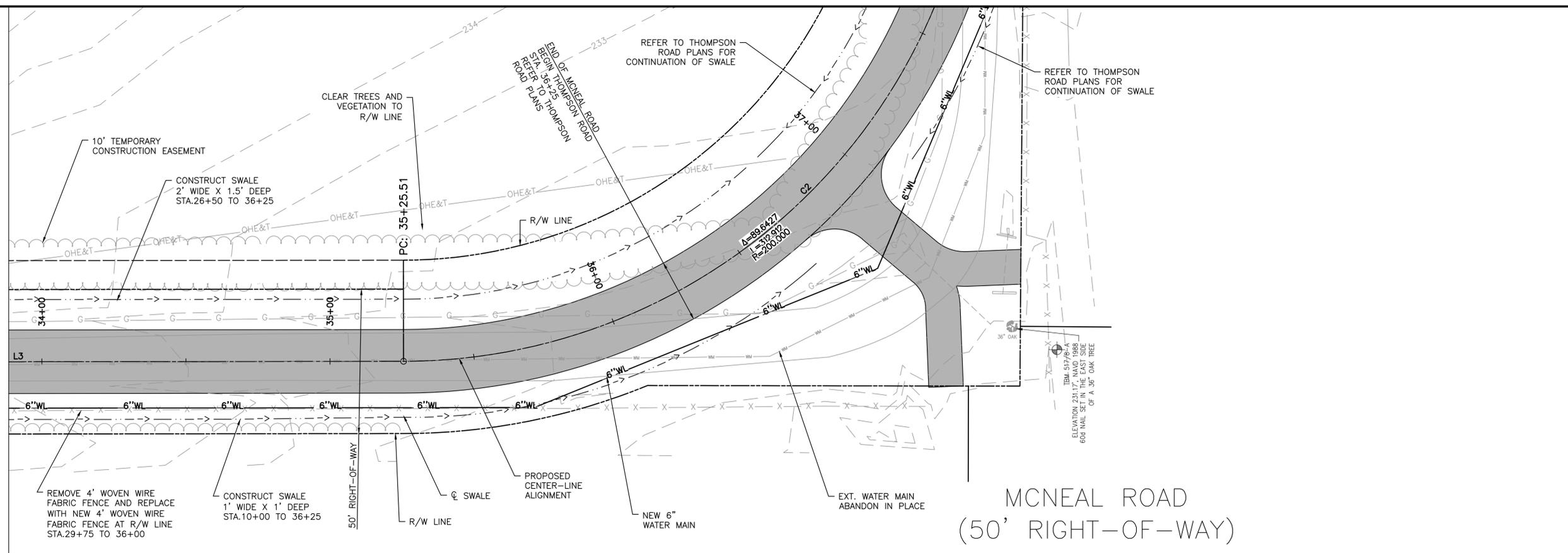
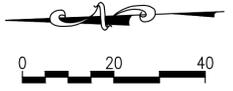
PLAN & PROFILE

JOB NO.: 15-1101-0297 DRAWING NO.: 10 OF 31 REVISION NO.:

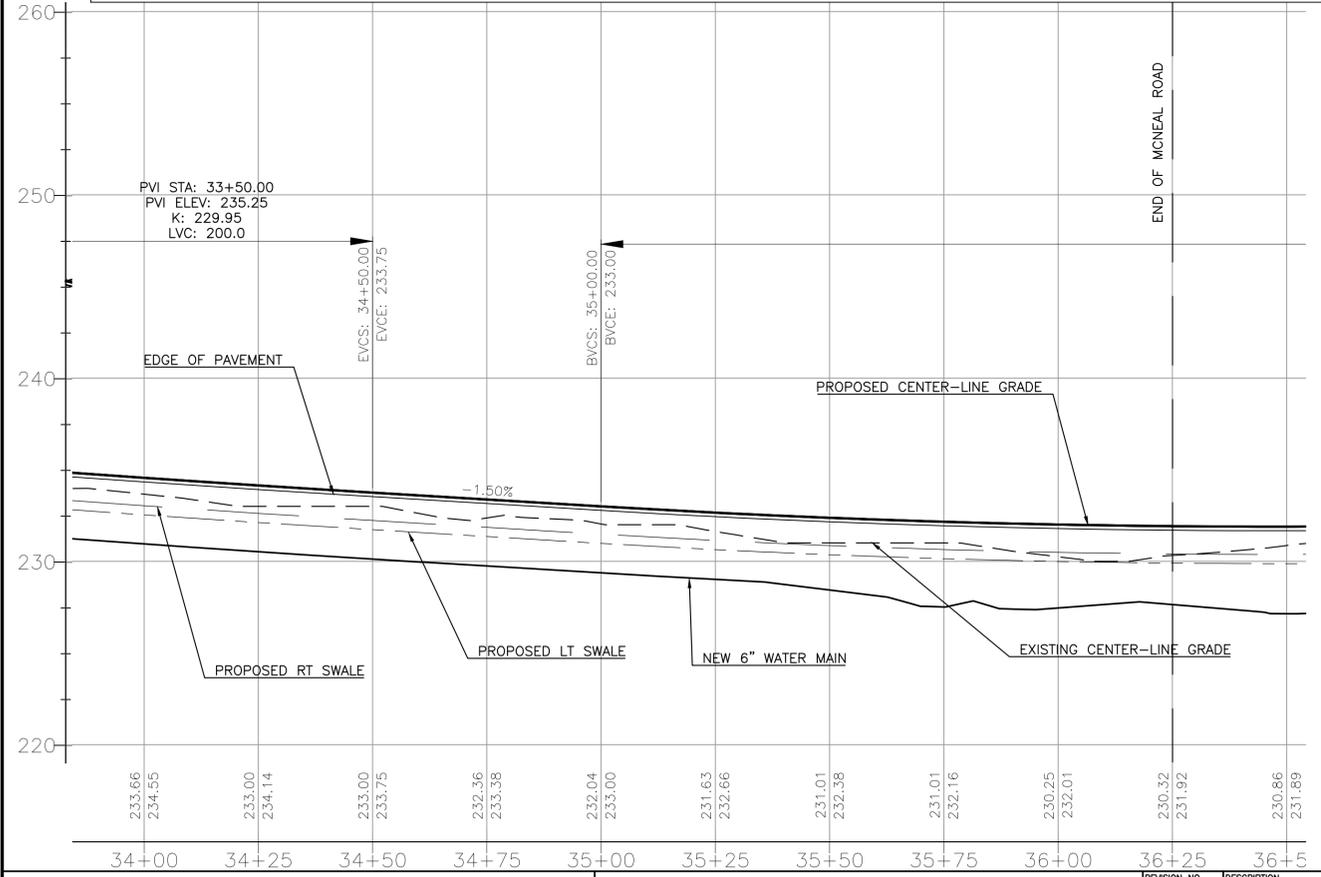


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MCNEAL ROAD
(50' RIGHT-OF-WAY)



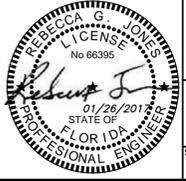
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**ESCAMBIA COUNTY
ENGINEERING DEPARTMENT**

**thompson
ENGINEERING**

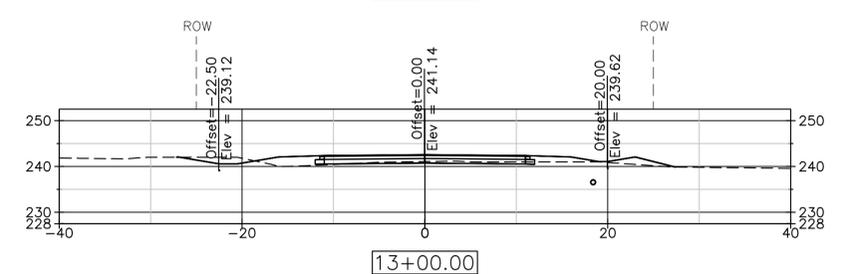
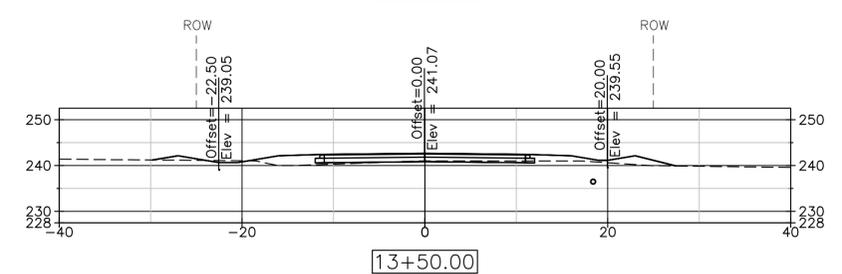
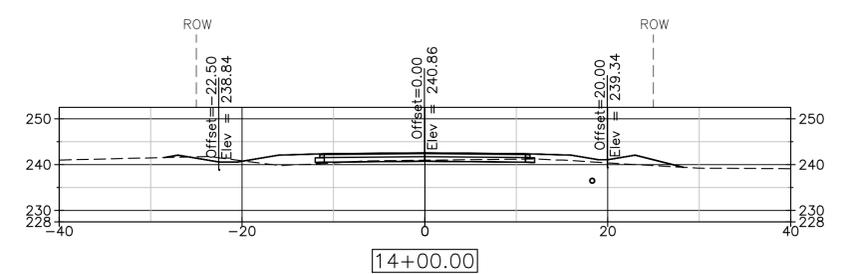
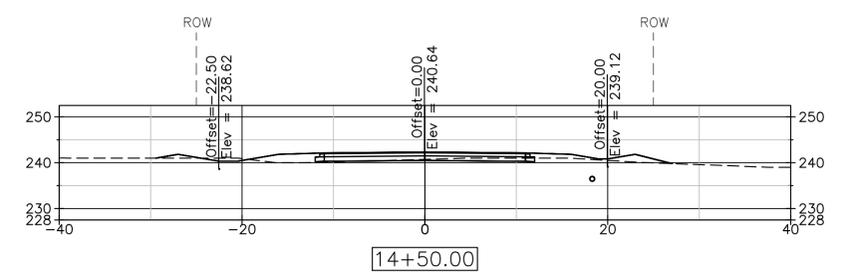
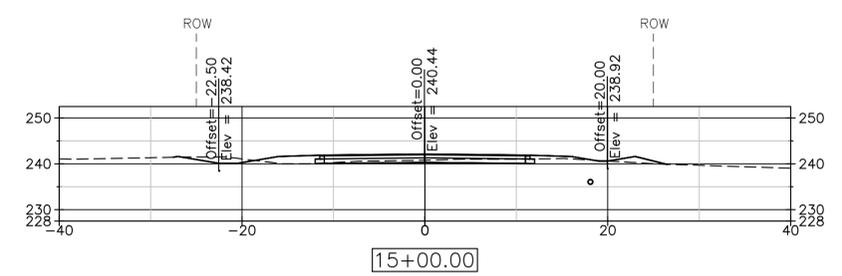
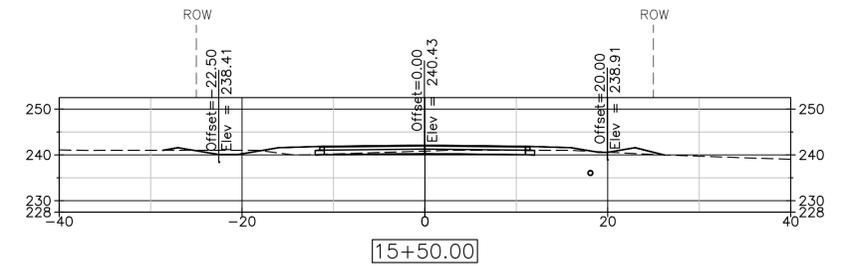
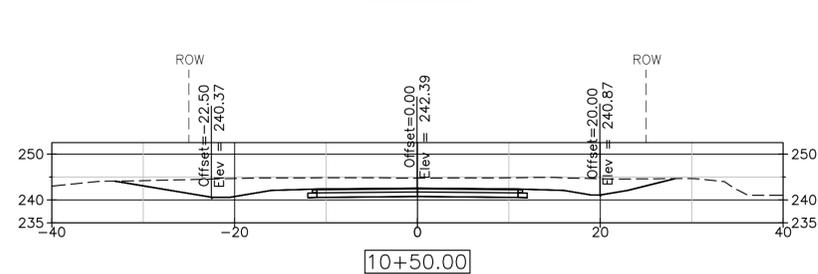
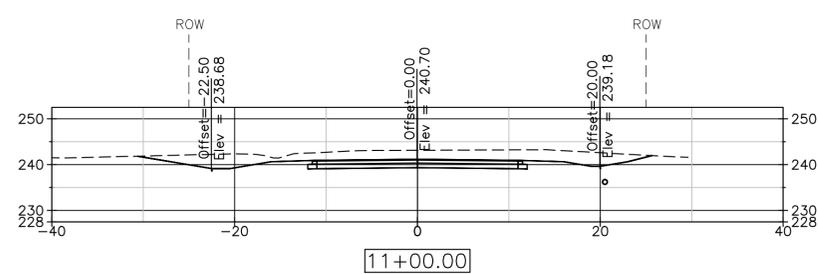
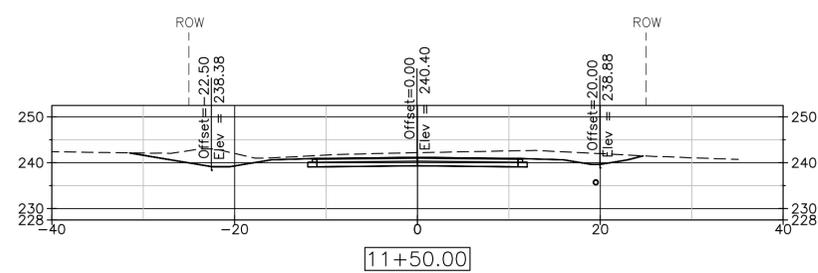
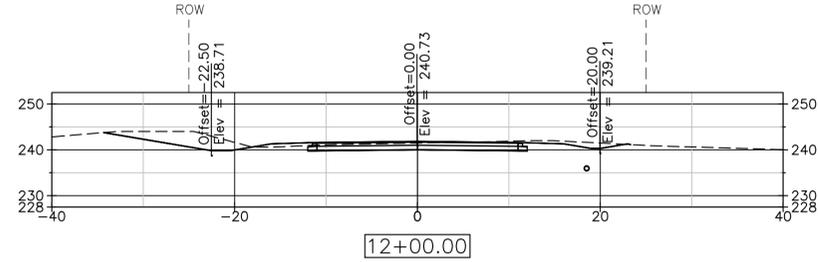
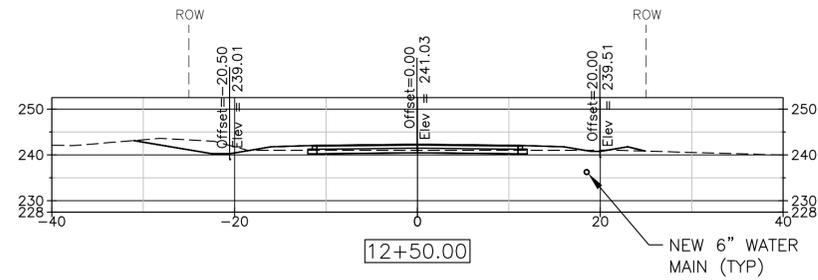
6706-C PLANTATION ROAD
PENSACOLA, FL 32504
TEL: (850) 202-3030

SCALE: SEE PLAN PLOT SCALE: SEE PLAN DRAWN BY: RGJ CHECKED BY: LJG APPROVED BY: LJG DATE: JUNE 2016

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

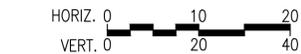
PLAN & PROFILE

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| JOB NO.: | DRAWING NO.: | REVISION NO.: |
| 15-1101-0297 | 12 OF 31 | |



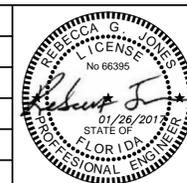
NOTE: CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR ROADBED PREPARATION RECOMMENDATIONS

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ESCAMBIA COUNTY
ENGINEERING DEPARTMENT

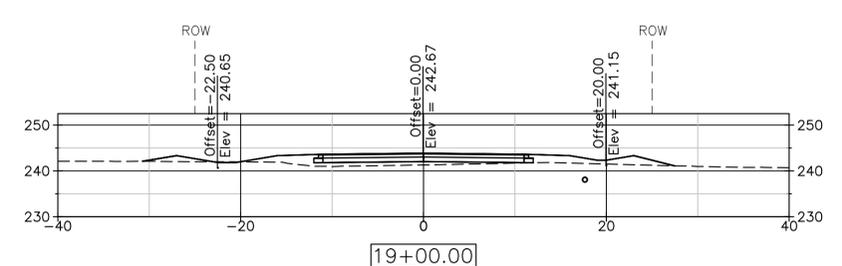
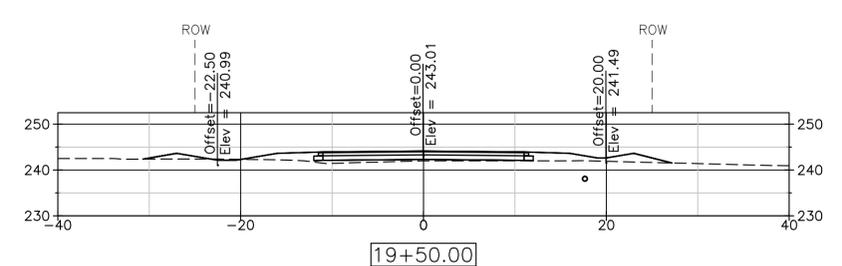
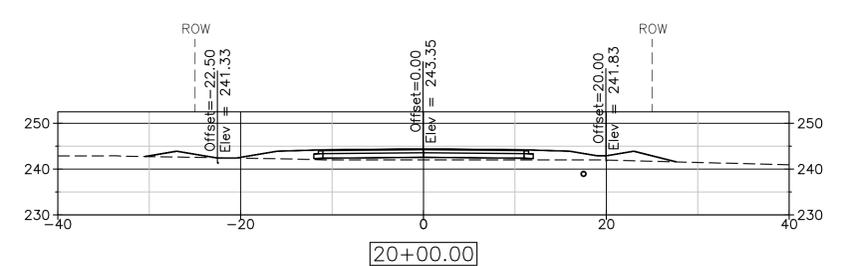
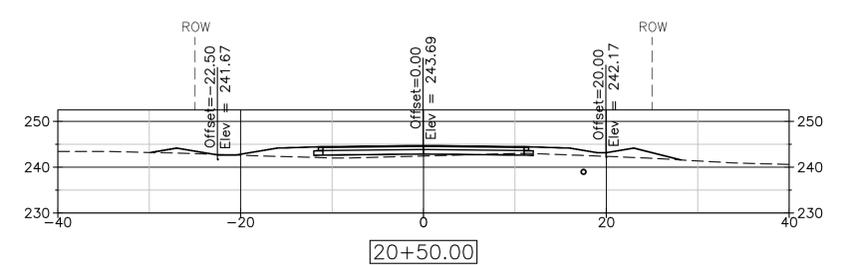
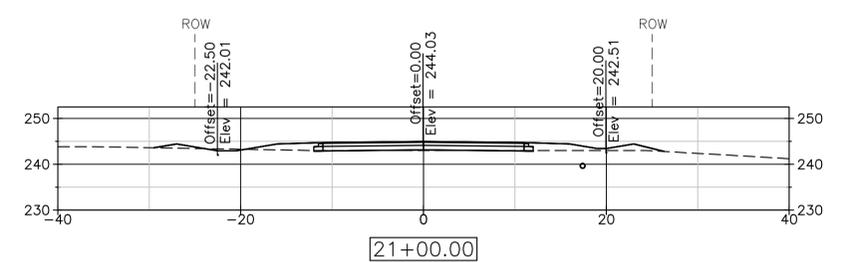
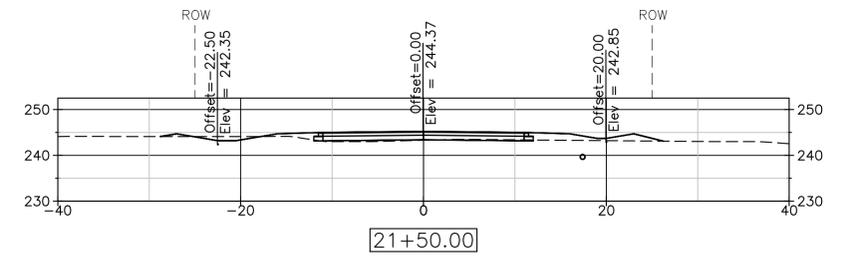
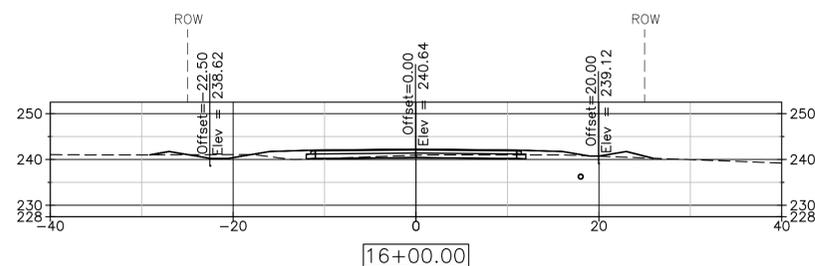
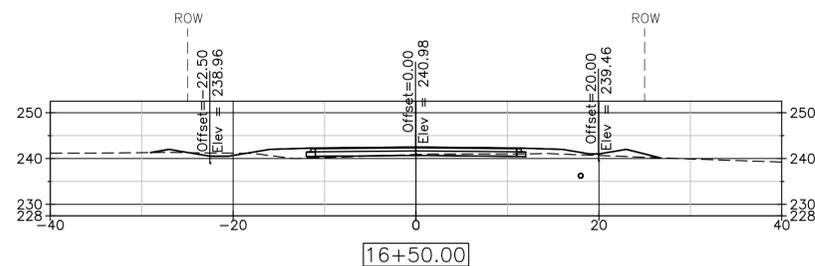
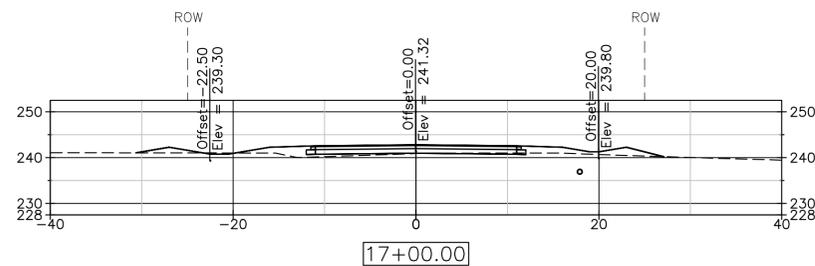
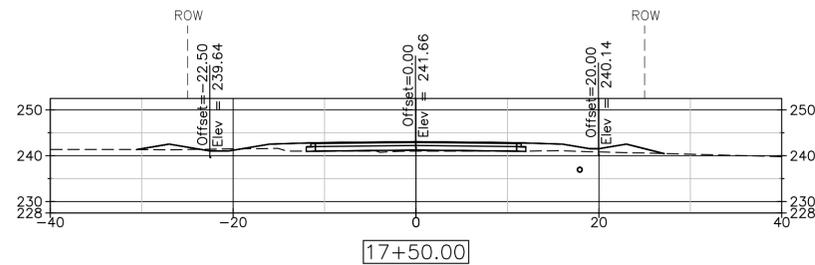
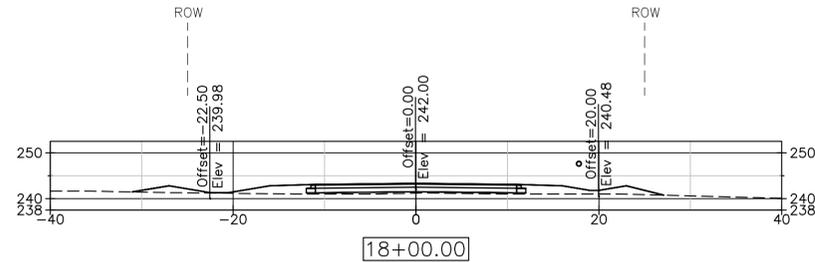
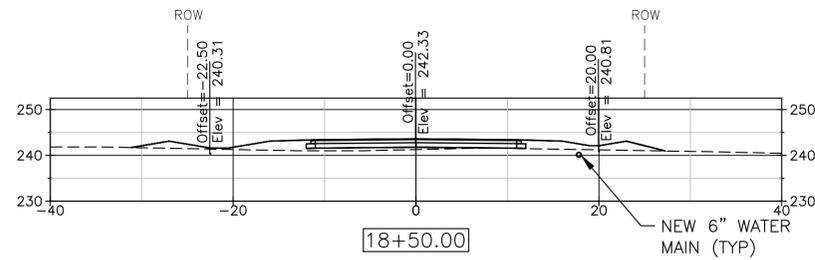


6706-C PLANTATION ROAD
PENSACOLA, FL 32504
SCALE: SEE PLAN
DRAWN BY: RGJ
CHECKED BY: LJC
APPROVED BY: LJC
TEL: (850) 202-3030

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

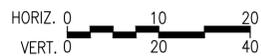
CROSS-SECTIONS

DATE: JUNE 2016
JOB NO.: 15-1101-0297
DRAWING NO.: 13 OF 31
REVISION NO.:



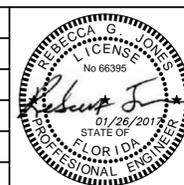
NOTE: CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR ROADBED PREPARATION RECOMMENDATIONS

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ESCAMBIA COUNTY
ENGINEERING DEPARTMENT



6706-C PLANTATION ROAD
PENSACOLA, FL 32504

SCALE: SEE PLAN

PLOT SCALE: SEE PLAN

DRAWN BY: RGJ

CHECKED BY: LJC

APPROVED BY: LJC

DATE: JUNE 2016

JOB NO.: 15-1101-0297

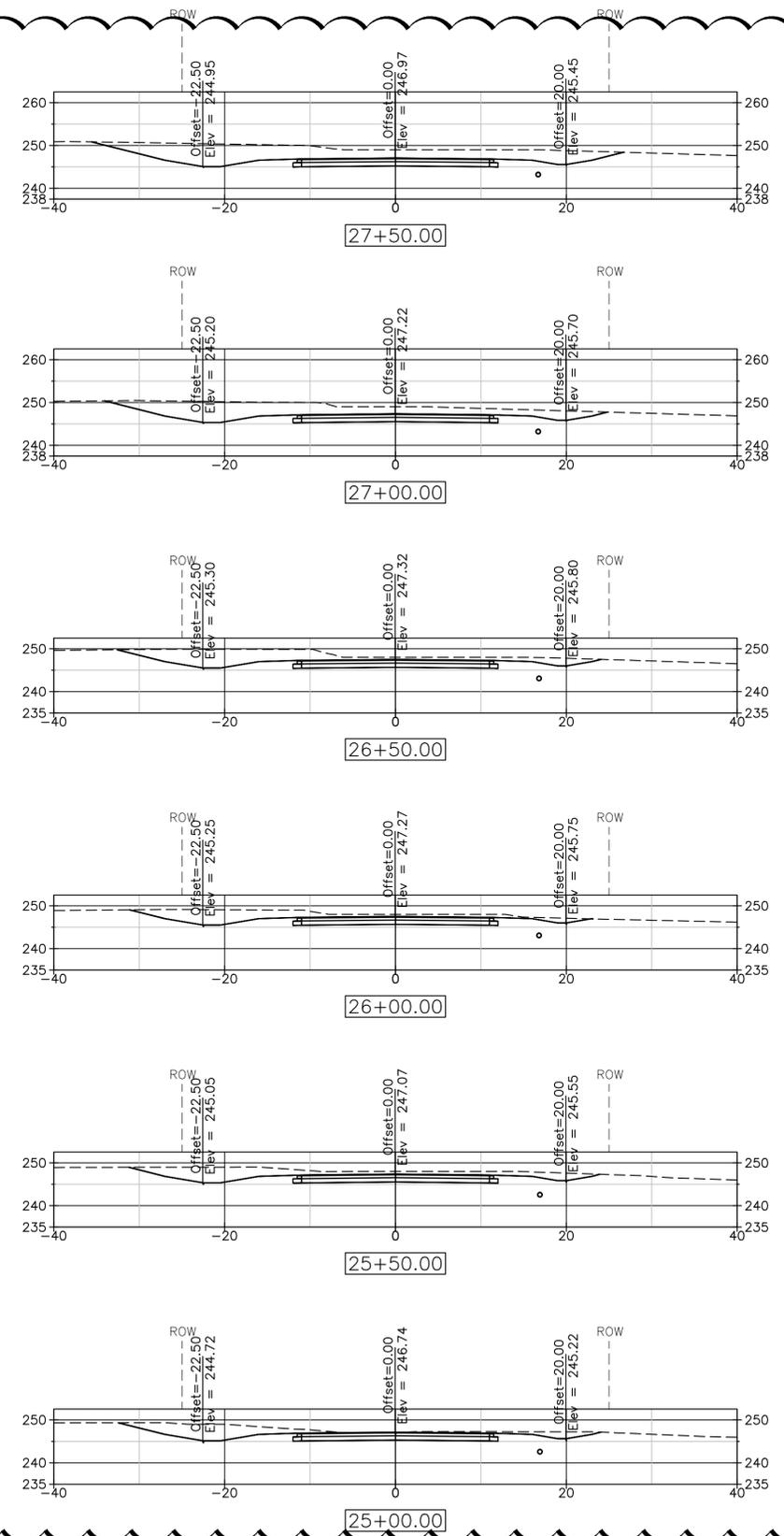
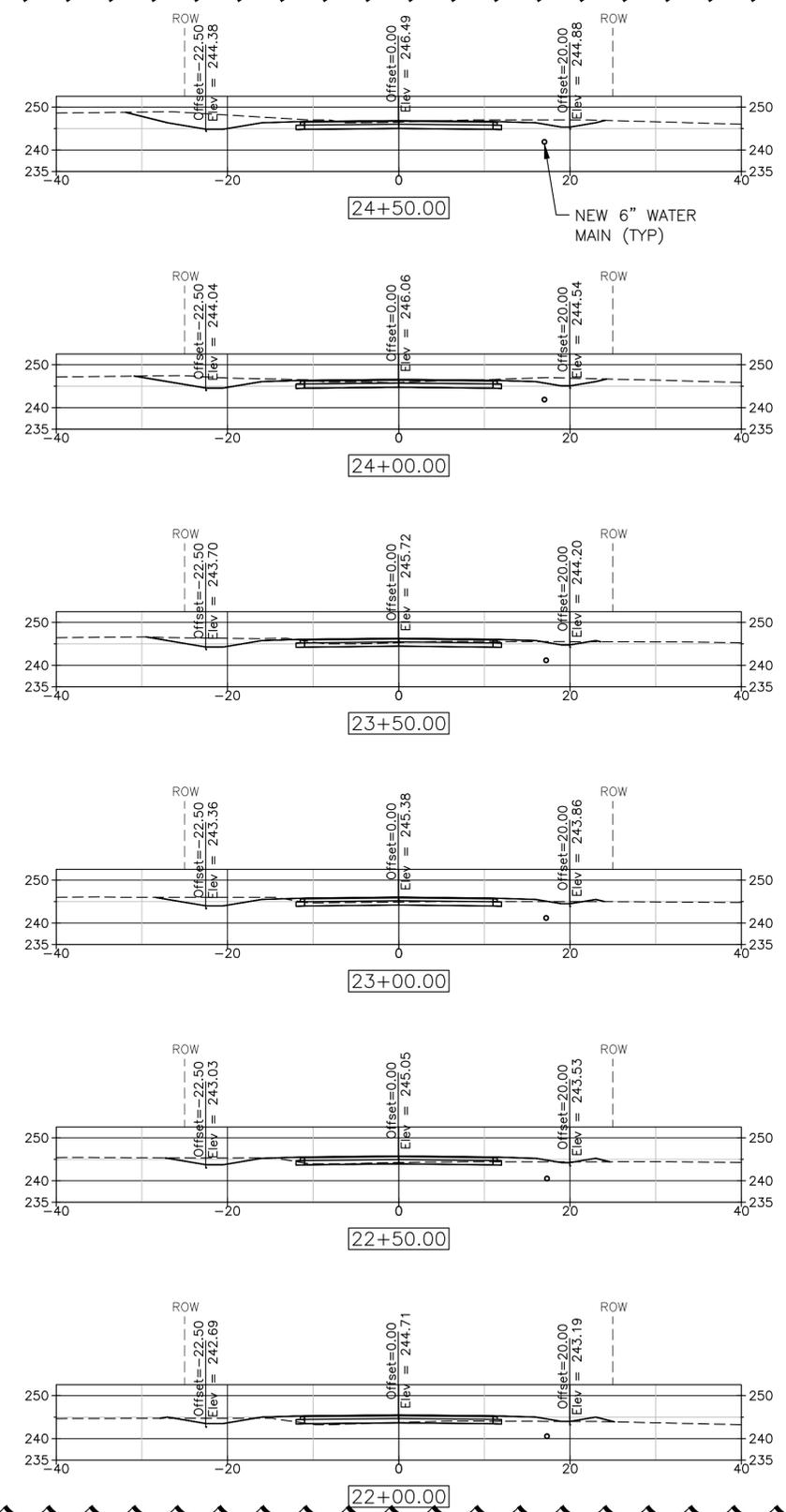
DRAWING NO.: 14 OF 31

REVISION NO.:

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

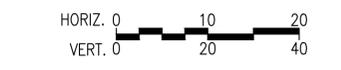
CROSS-SECTIONS

01



NOTE: CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR ROADBED PREPARATION RECOMMENDATIONS

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| REVISION NO. | DESCRIPTION | DATE | BY: |
| REVISION NO. | DESCRIPTION | DATE | BY: |
| REVISION NO. | DESCRIPTION | DATE | BY: |
| 01 | REVISED SHEET WITH MISSING X-SECTIONS | 10/19/16 | RGJ |



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT

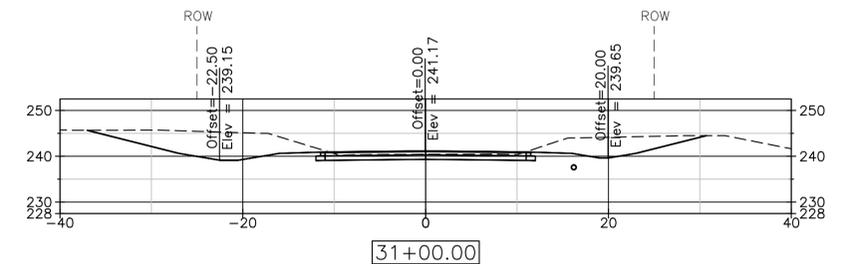
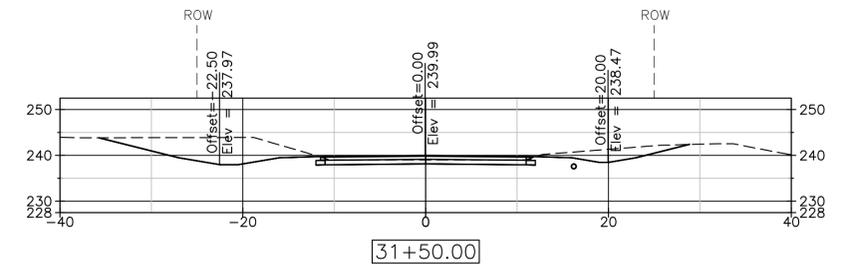
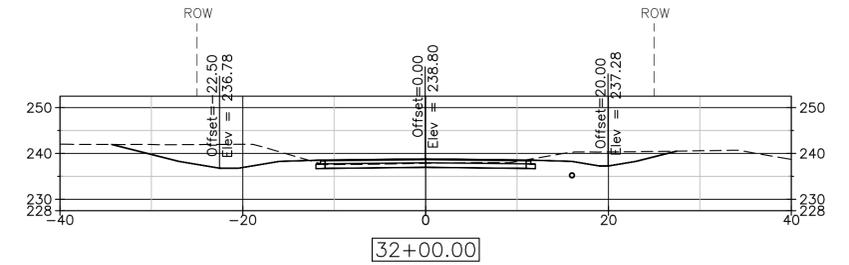
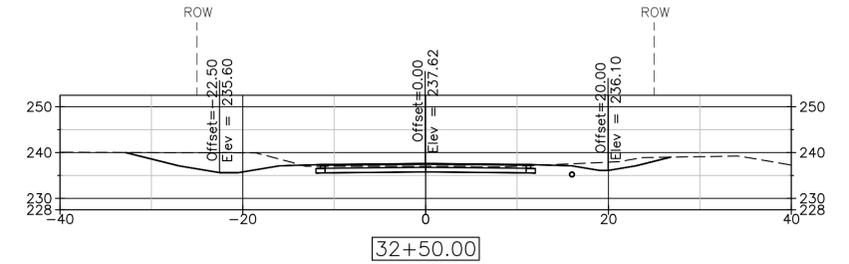
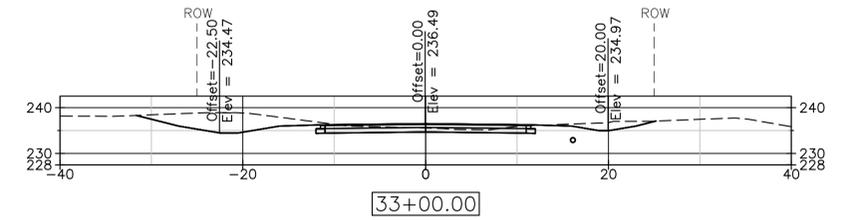
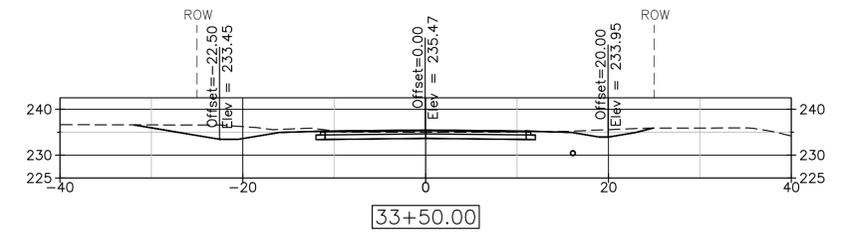
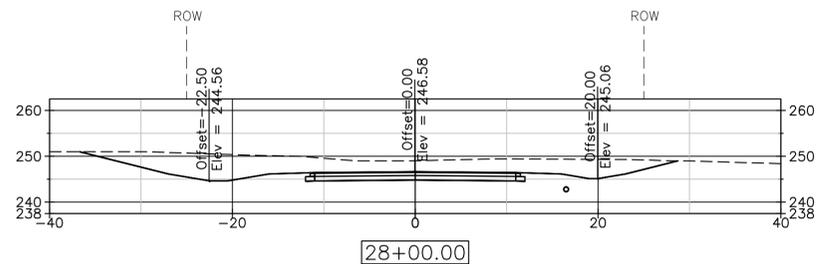
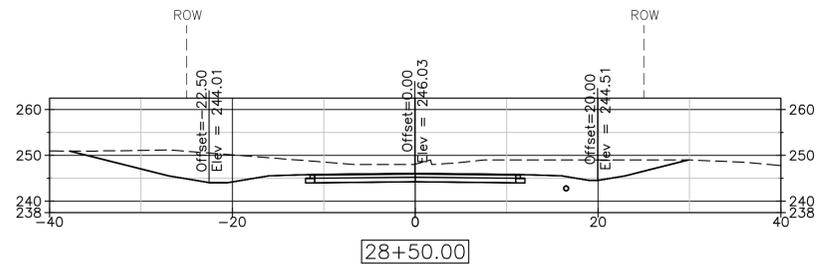
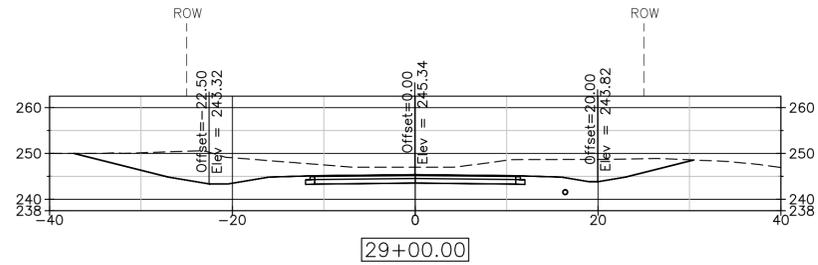
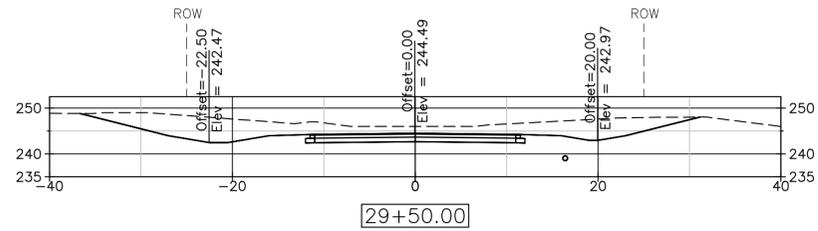
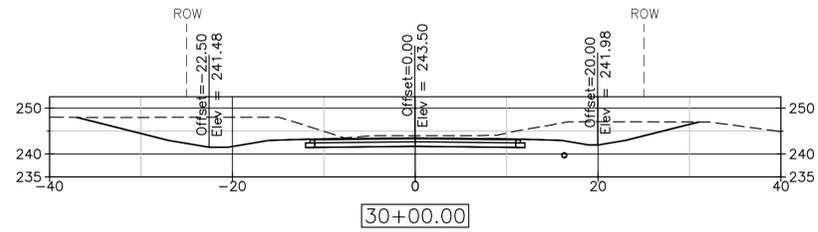
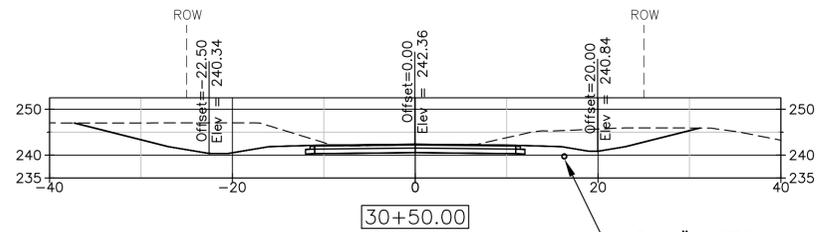


6706-C PLANTATION ROAD
PENSACOLA, FL 32504
SCALE: SEE PLAN
PLOT SCALE: SEE PLAN
DRAWN BY: RGJ
CHECKED BY: LJC
APPROVED BY: LJC
TEL: (850) 202-3030

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

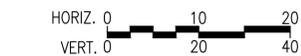
CROSS-SECTIONS

DATE: JUNE 2016
JOB NO.: 15-1101-0297
DRAWING NO.: 15 OF 31
REVISION NO.:



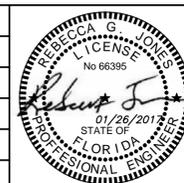
NOTE: CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR ROADBED PREPARATION RECOMMENDATIONS

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ESCAMBIA COUNTY
ENGINEERING DEPARTMENT

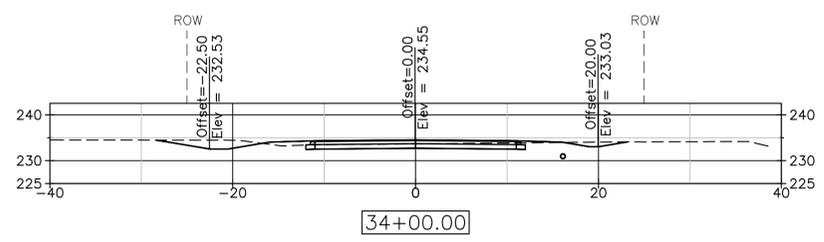
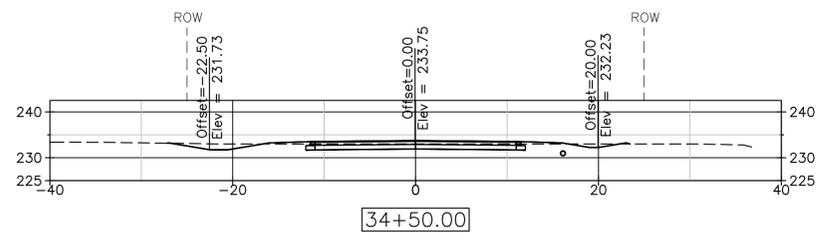
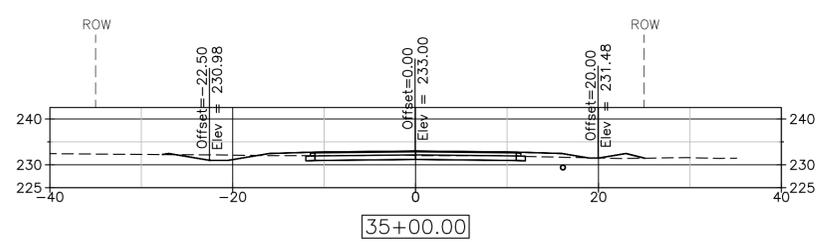
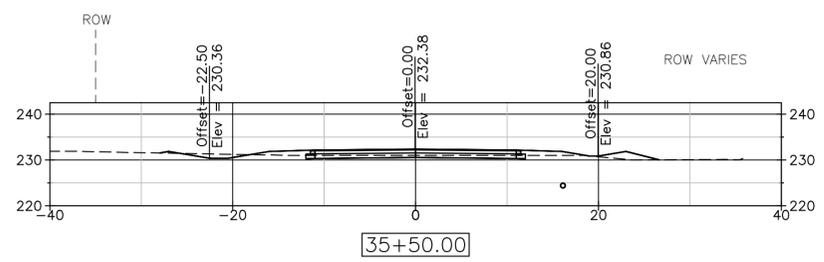
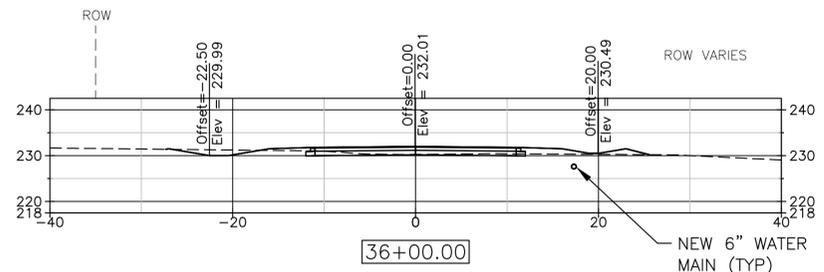


6706-C PLANTATION ROAD
PENSACOLA, FL 32504
SCALE: SEE PLAN
PLOT SCALE: SEE PLAN
DRAWN BY: RGJ
CHECKED BY: LJC
APPROVED BY: LJC
TEL: (850) 202-3030

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

CROSS-SECTIONS

DATE: JUNE 2016
JOB NO.: 15-1101-0297
DRAWING NO.: 16 OF 31
REVISION NO.:



NOTE: CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR ROADBED PREPARATION RECOMMENDATIONS

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HORIZ. 0 10 20
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**ESCAMBIA COUNTY
ENGINEERING DEPARTMENT**

6706-C PLANTATION ROAD
PENSACOLA, FL 32504

thompson
ENGINEERING

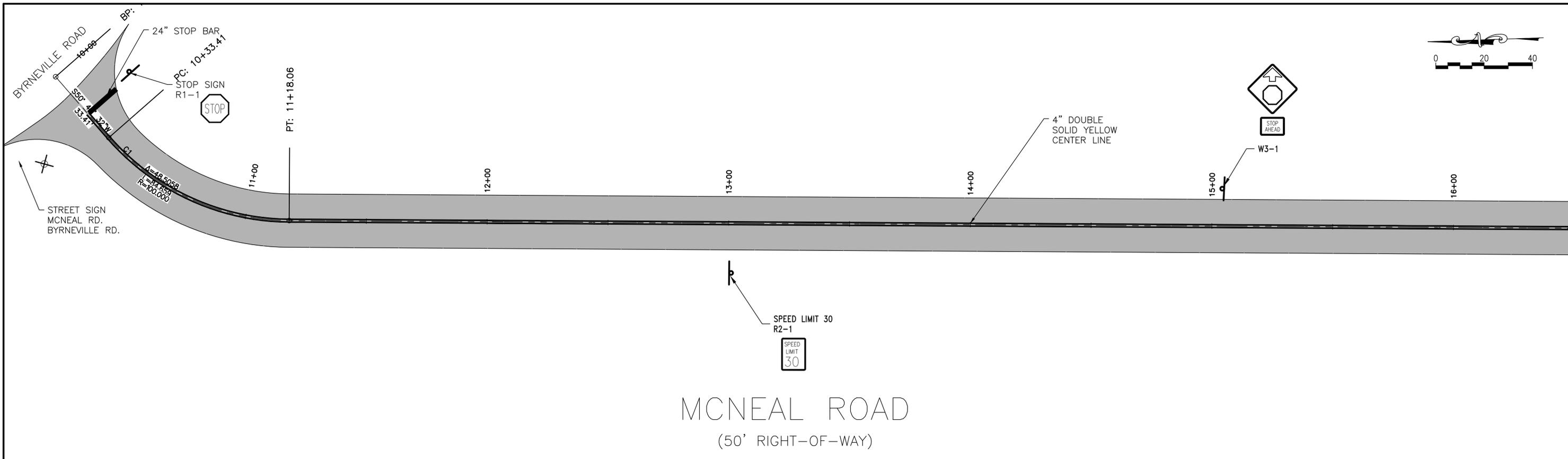
TEL: (850) 202-3030

SCALE: SEE PLAN PLOT SCALE: SEE PLAN DRAWN BY: RGJ CHECKED BY: LJC APPROVED BY: LJC DATE: JUNE 2016

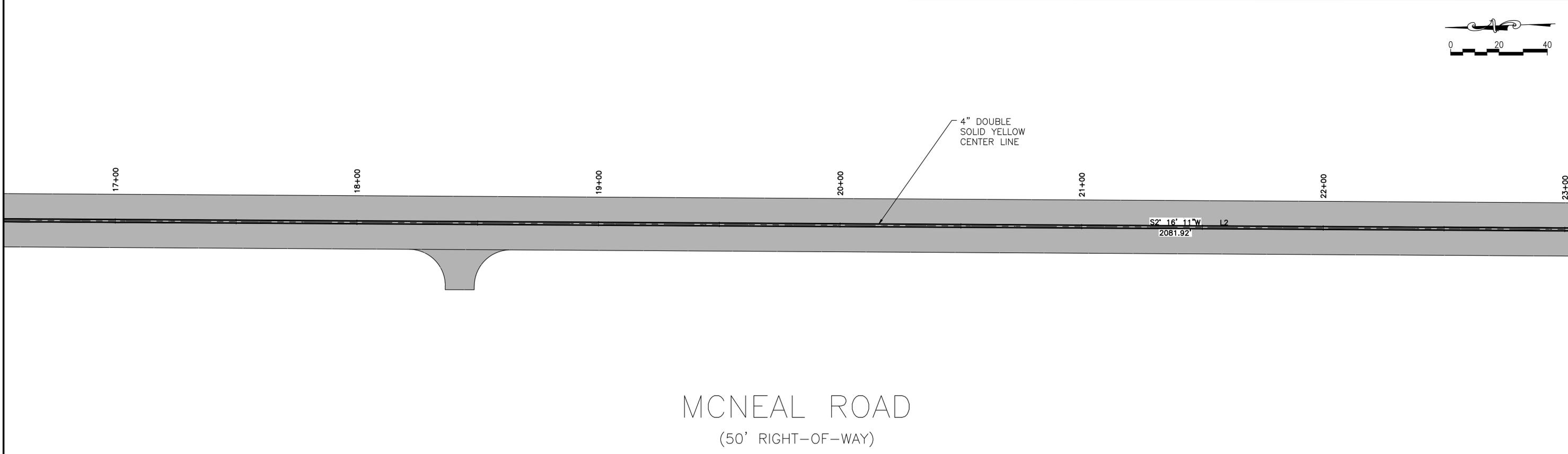
DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

CROSS-SECTIONS

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| JOB NO. : 15-1101-0297 | DRAWING NO. : 17 OF 31 |
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MCNEAL ROAD
(50' RIGHT-OF-WAY)



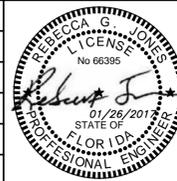
MCNEAL ROAD
(50' RIGHT-OF-WAY)

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ESCAMBIA COUNTY
ENGINEERING DEPARTMENT



6706-C PLANTATION ROAD
PENSACOLA, FL 32504

SCALE: SEE PLAN

PLOT SCALE: SEE PLAN

DRAWN BY: RGJ

CHECKED BY: LYG

APPROVED BY: LYG

DATE: JUNE 2016

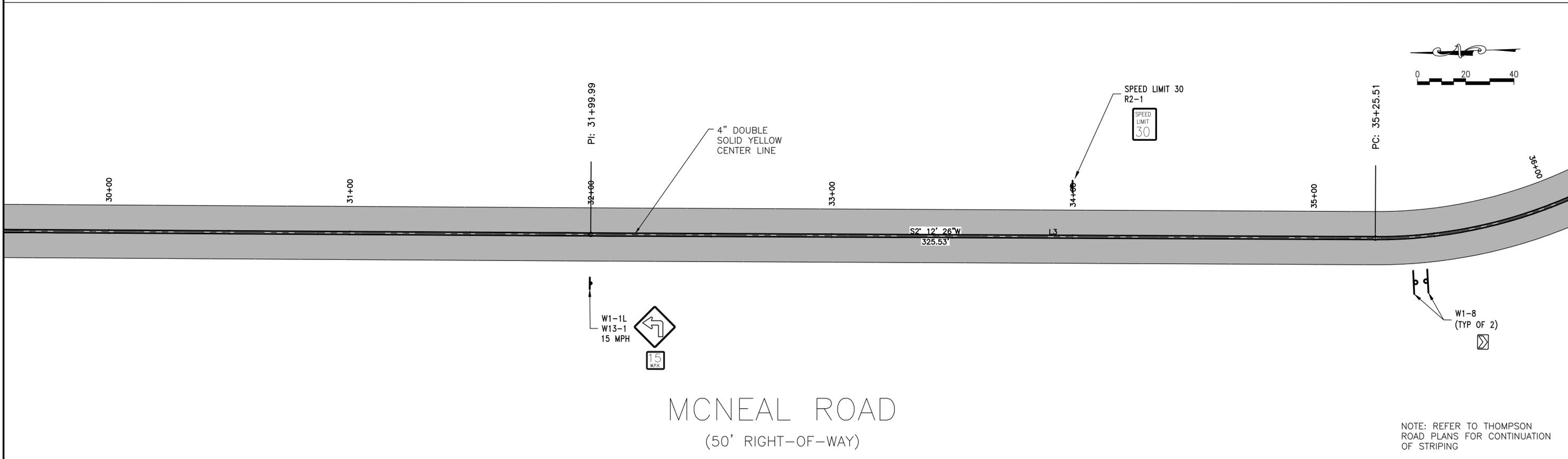
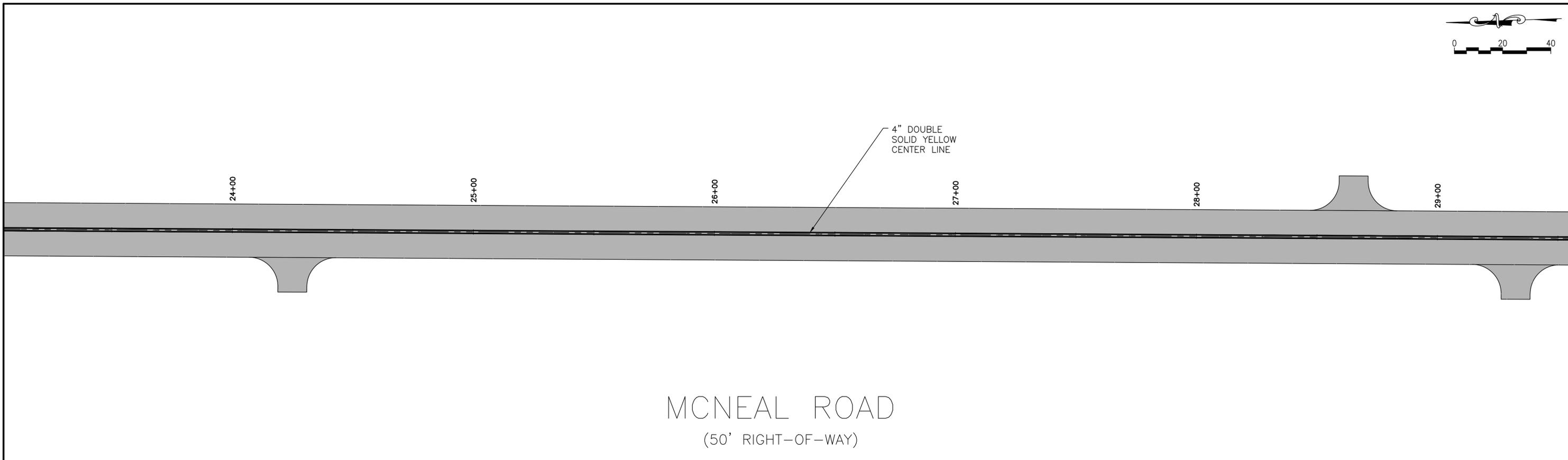
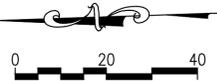
JOB NO.: 15-1101-0297

DRAWING NO.: 18 OF 31

REVISION NO.:

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

SIGNAGE & STRIPING PLAN



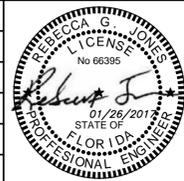
NOTE: REFER TO THOMPSON ROAD PLANS FOR CONTINUATION OF STRIPING

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ESCAMBIA COUNTY
ENGINEERING DEPARTMENT



6706-C PLANTATION ROAD
PENSACOLA, FL 32504

TEL: (850) 202-3030

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|-----------------|----------------------|---------------|-----------------|------------------|-----------------|-----------------------|-----------------------|---------------|
| SCALE: SEE PLAN | PLOT SCALE: SEE PLAN | DRAWN BY: RGJ | CHECKED BY: LJJ | APPROVED BY: LJJ | DATE: JUNE 2016 | JOB NO.: 15-1101-0297 | DRAWING NO.: 19 OF 31 | REVISION NO.: |
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-  ROAD WORK AHEAD
W20-1
-  ONE LANE ROAD AHEAD
W20-4
-  BE PREPARED TO STOP
W3-4
-  W20-7

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**ESCAMBIA COUNTY
ENGINEERING DEPARTMENT**

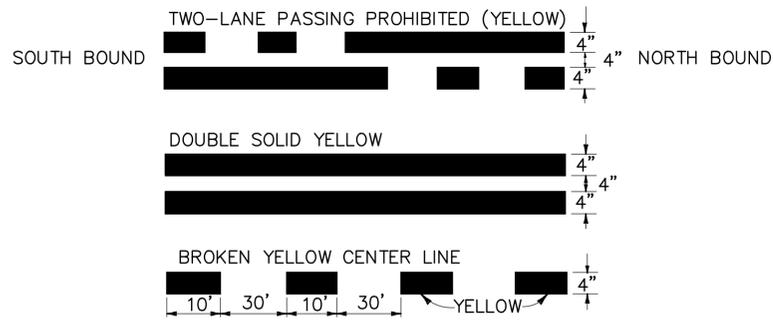


6706-C PLANTATION ROAD
PENSACOLA, FL 32504
TEL: (850) 202-3030

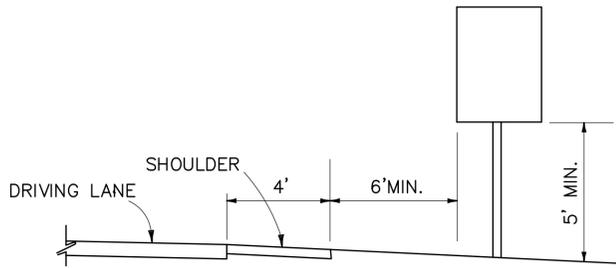
DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

MOT PLAN

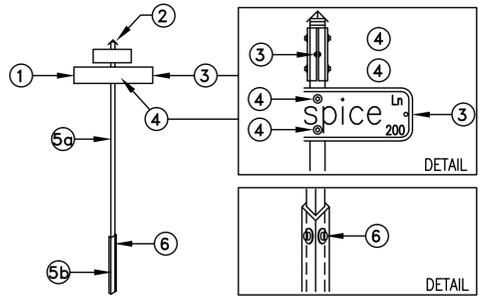
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| SCALE: SEE PLAN | PLOT SCALE: SEE PLAN | DRAWN BY: RGJ | CHECKED BY: LJJ | APPROVED BY: LJJ | DATE: JUNE 2016 | JOB NO.: 15-1101-0297 | DRAWING NO.: 20 OF 31 | REVISION NO.: |
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TYPICAL OF PERMANENT LONGITUDINAL LINES
N.T.S.



TYPICAL SIGN LOCATION
N.T.S.

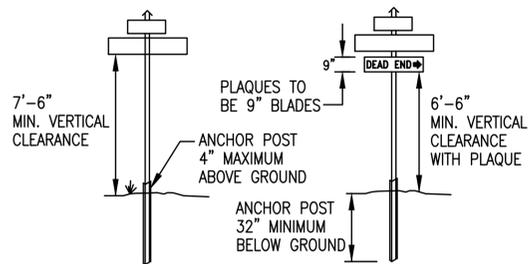


- ① SIGN BLADE - .80" ALUMINUM CORNERS ROUNDED (1/2" RADIUS) FREE OF SHARP EDGES
- ② ALUMINUM PYRAMID RAINCAP (ARC 175 OR EQUIVALENT)
- ③ 3/16"x3/8" BLIND RIVETS (ENDS OF SIGN BLADES WILL BE RIVETED TOGETHER) (4 REQUIRED PER INSTALLATION)
- ④ 3/8" STEEL DRIVE RIVETS ("SOUTHCO" 3878 OR EQUIVALENT) (8 REQUIRED PER INSTALLATION)
- ⑤ TELSPAR SIGN POST SYSTEM (GALVANIZED) OR EQUIVALENT (COMPRISED OF PARTS 5a AND 5b)
- ⑤a 1 3/4"x1 3/4"x10' - 14 GAUGE TELESCOPING TOP POSE
- ⑤b 2"x2"x36" - 12 GAUGE SQUARE FIT ANCHOR POST
- ⑥ 5/16"x2 1/4" CORNER BOLT

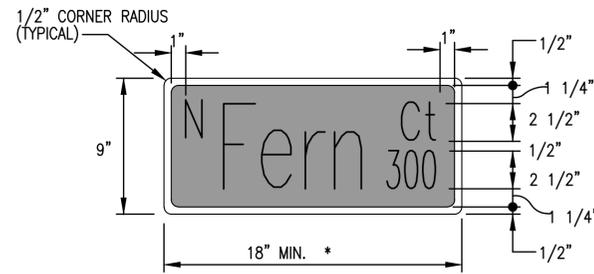
INSTALL STREET NAME SIGNS ON CORNERS OF INTERSECTION SO THAT THEY WILL BE ON THE FAR RIGHT SIDE OF THE INTERSECTION FOR TRAFFIC ON THE MAJOR STREET IN ACCORDANCE WITH M.U.T.C.D. SECTION 2D.38

INSTALL STREET NAME SIGN POST AT MID RADIUS, 10' OFF EDGE OF ROAD

"DEAD END" (W14-1P) OR "NO OUTLET" (W14-2P) PLAQUES MAY BE CO-MOUNTED TO STREET NAME SIGNS BENEATH STREET NAME SIGN BLADES IN ACCORDANCE WITH M.U.T.C.D. SECTION 2C.46.

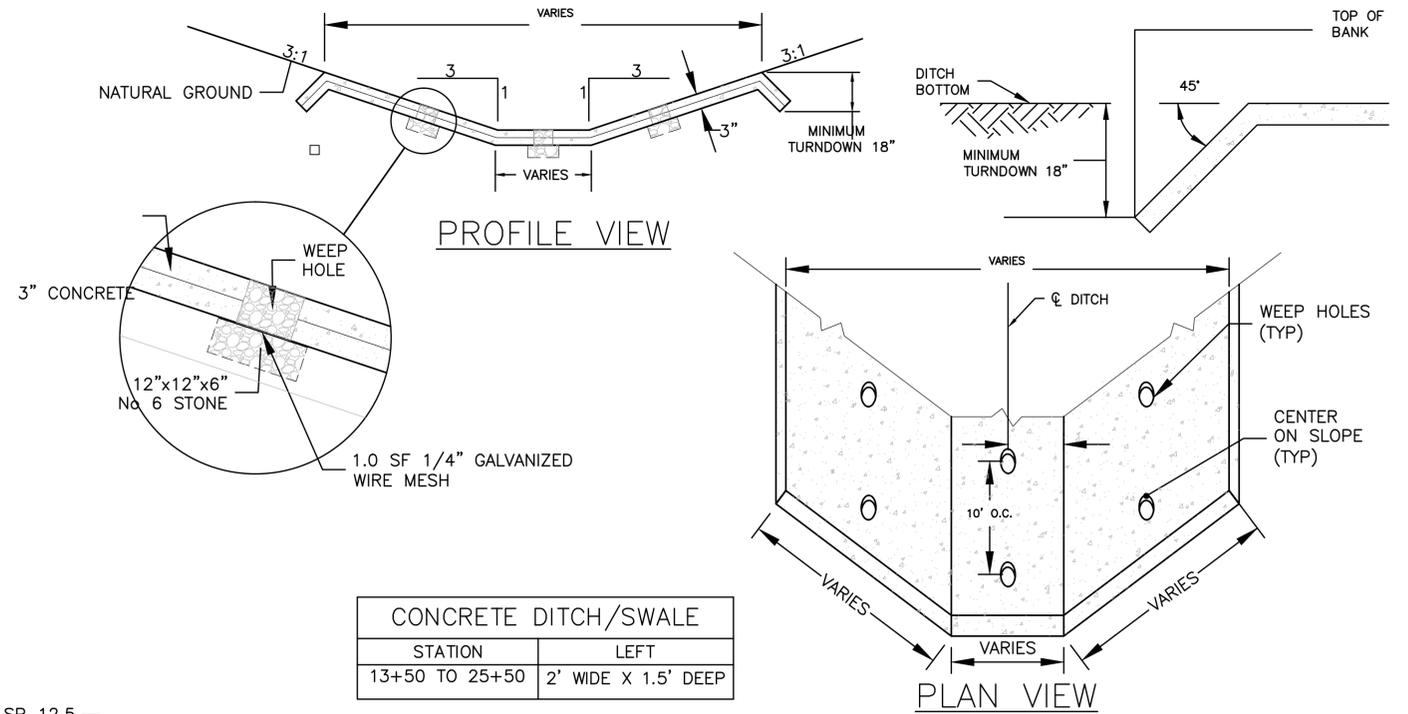


STANDARD DETAILS FOR INSTALLATION AND LOCATION OF STREET NAME SIGNS
N.T.S.

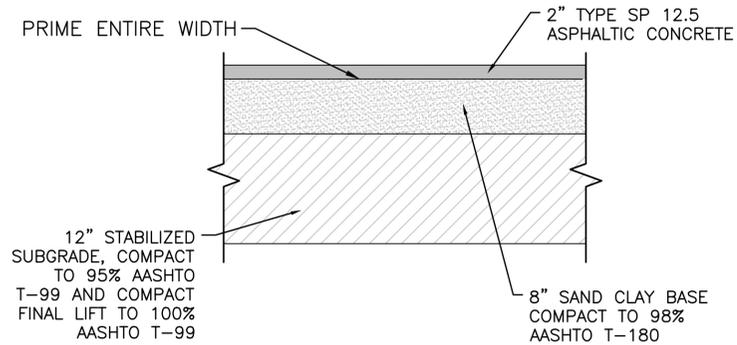
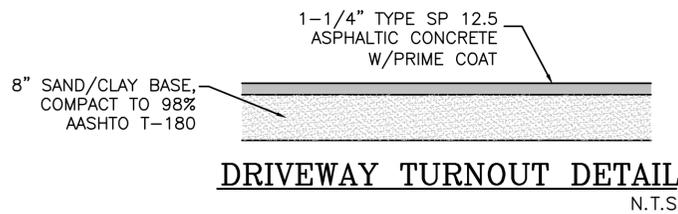
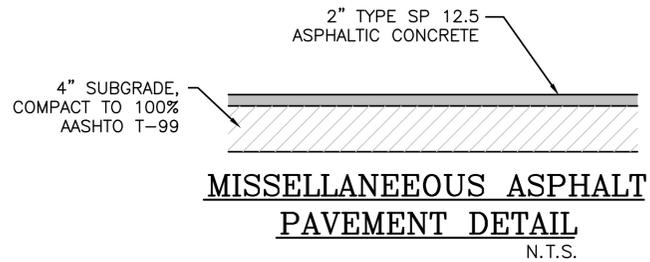


- * MINIMUM OVERALL LENGTH FOR SIGN BLADE MARGINS TO BE 1" MINIMUM (TYPICAL)
- FOOT TYPE III-A REFLECTIVE SHEETING TO BE USED ON ALL STREET NAME SIGN BLADES.
 - STREET NAME SIGN BLADES TO HAVE WHITE LEGENDS, 1/2" WHITE BORDERS AND GREEN BACKGROUND.
 - PRIMARY LETTERING TO SERIES B, 6" UPPER CASE AND 4 1/2" LOWER CASE.
 - PREFIX AND SUFFIX LETTERING TO BE SERIES C, 2 1/2" UPPER CASE AND 1 3/4" LOWER CASE.

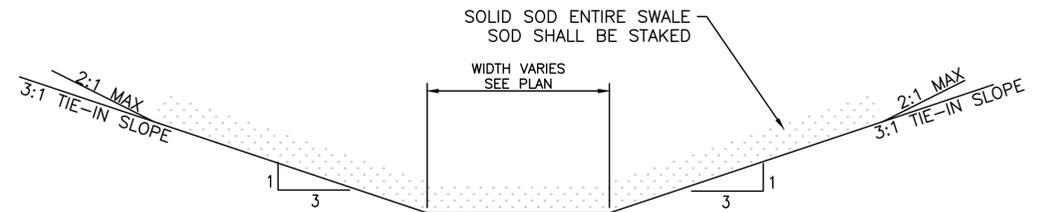
STANDARD DETAIL FOR STREET NAME SIGN BLADE LAYOUT
N.T.S.



CONCRETE DITCH PAVING
N.T.S.



PAVEMENT SECTION DETAIL
N.T.S.



| GRASS SWALES | | |
|----------------|---------------------|-------------------|
| STATION | LEFT | RIGHT |
| 10+33 TO 13+50 | 2' WIDE X 1.5' DEEP | 1' WIDE X 1' DEEP |
| 13+50 TO 25+50 | N/A (CONCRETE) | 1' WIDE X 1' DEEP |
| 25+50 TO 36+25 | 2' WIDE X 1.5' DEEP | 1' WIDE X 1' DEEP |

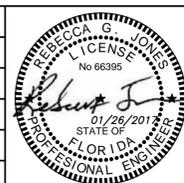
TYPICAL SWALE SECTION
N.T.S.

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ESCAMBIA COUNTY
ENGINEERING DEPARTMENT



6706-C PLANTATION ROAD
PENSACOLA, FL 32504

SCALE: SEE PLAN

PLOT SCALE: SEE PLAN

DRAWN BY: RGJ

CHECKED BY: LJJ

APPROVED BY: LJJ

DATE: JUNE 2016

JOB NO.: 15-1101-0297

DRAWING NO.: 21 OF 31

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

ROADWAY DETAILS

TEL: (850) 202-3030

MINIMUM THRUST BLOCK DIMENSIONS:
SURFACE AREA AGAINST UNDISTURBED SOIL

| FITTING PIPE SIZE | DEAD END OR TEE | 90° BEND | 45° BEND | 22.5° BEND |
|----------------------|--------------------|-------------|-------------|---------------|
| | 4" | 1' X 2' | 1.5' X 1.5' | 1' X 1.5' |
| 6" | 2' X 2' | 2.5' X 2.5' | 2' X 1.5' | 1' X 1.5' |
| 8" | 2.25' X 3' | 3' X 3' | 2' X 2.5' | 1.5' X 1.5' |
| 10" | 3.5' X 3' | 4' X 3.75' | 2.75' X 3' | 2' X 2' |
| 12" | 4' X 4' | 4' X 5' | 3' X 4' | 2' X 3' |
| 16" | 5' X 5.5' | 6' X 6.5' | 4' X 5' | 3' X 3.5' |

NOTES:

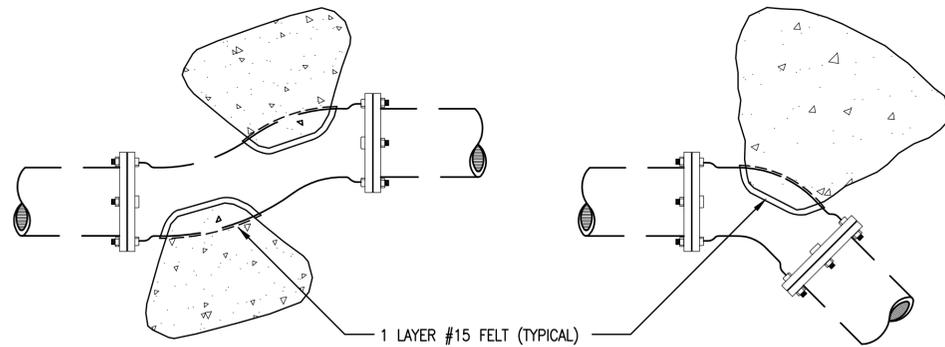
- ONE LAYER OF #15 FELT TO BE USED TO PREVENT ADHESION OF CONCRETE TO FITTING.
- ALL THRUST BLOCKS TO BE BACKED BY UNDISTURBED SOIL

PIPE JOINT RESTRAINT TABULATION

SHOWING DISTANCES IN FEET FROM THE FITTING TO BE RESTRAINED TO THE LAST RESTRAINING GLAND REQUIRED

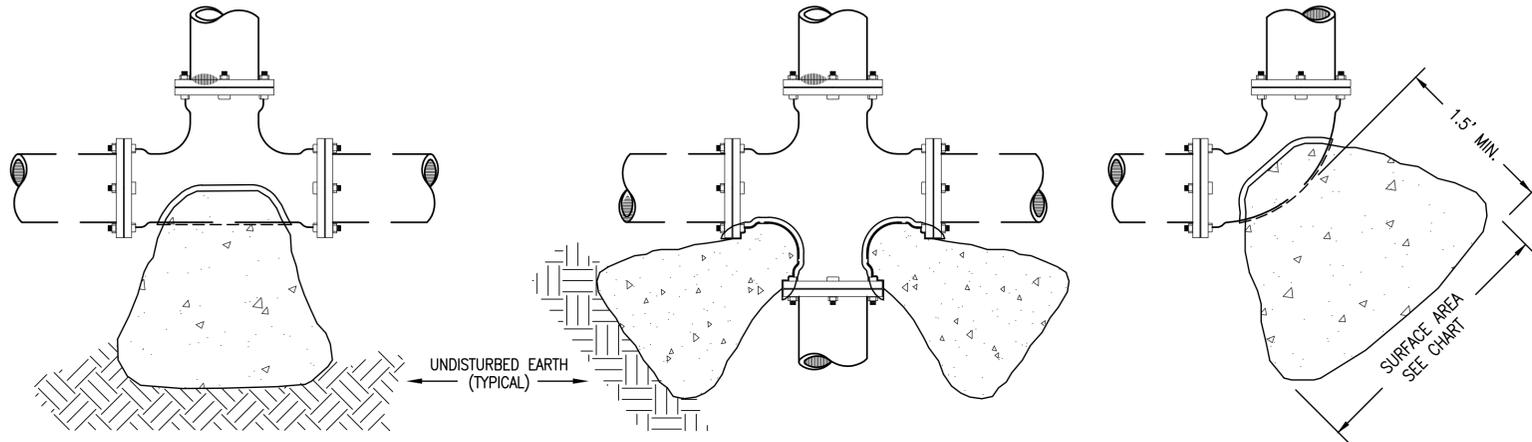
| PIPE SIZE AND TYPE | HORIZONTAL BENDS | | | | DEAD ENDS | EQUAL TEES See note 3 |
|-----------------------|------------------|---------|-----------|------------|-----------|--------------------------|
| | 90 Deg. | 45 Deg. | 22.5 Deg. | 11.25 Deg. | | |
| 3" DI | 18 | 8 | 4 | 2 | 33 | 1 |
| 4" DI | 22 | 9 | 4 | 2 | 39 | 1 |
| 6" DI | 31 | 13 | 6 | 3 | 55 | 1 |
| 8" DI | 40 | 17 | 8 | 4 | 72 | 1 |
| 10" DI | 48 | 20 | 9 | 5 | 86 | 1 |
| 12" DI | 56 | 23 | 11 | 5 | 101 | 1 |
| 16" DI | 70 | 29 | 14 | 7 | 129 | 1 |
| 20" DI | 84 | 35 | 17 | 8 | 156 | 18 |
| 24" DI | 96 | 40 | 19 | 9 | 181 | 41 |
| 4" PVC | 28 | 12 | 6 | 3 | 62 | 1 |
| 6" PVC | 39 | 16 | 8 | 4 | 87 | 1 |
| 8" PVC | 50 | 21 | 10 | 5 | 114 | 1 |
| 10" PVC | 60 | 25 | 12 | 6 | 136 | 1 |
| 12" PVC | 70 | 29 | 14 | 7 | 160 | 1 |
| 16" PVC | 88 | 36 | 17 | 9 | 205 | 1 |
| 20" PVC | 105 | 43 | 21 | 10 | 247 | 29 |
| 24" PVC | 120 | 50 | 24 | 12 | 287 | 64 |

- NOTES :
- Test pressure = 150 psi, soil group = SM, trench type = 3, depth = 2.5', safety factor = 2
 - Restrained lengths for vertical offsets, reducers & unequal size tees must be individually calculated.
 - With equal tees, the distances shown are with a run length of 40' as an example only. For other lengths and for unequal tees, individual calculations must be made.



OFFSET - M.J.

45° BEND - M.J.



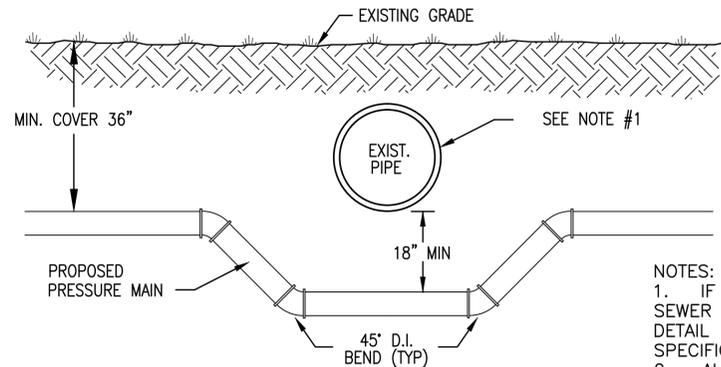
TEE - M.J.

CROSS - M.J.

90° BEND - M.J.

THRUST BLOCK DETAILS

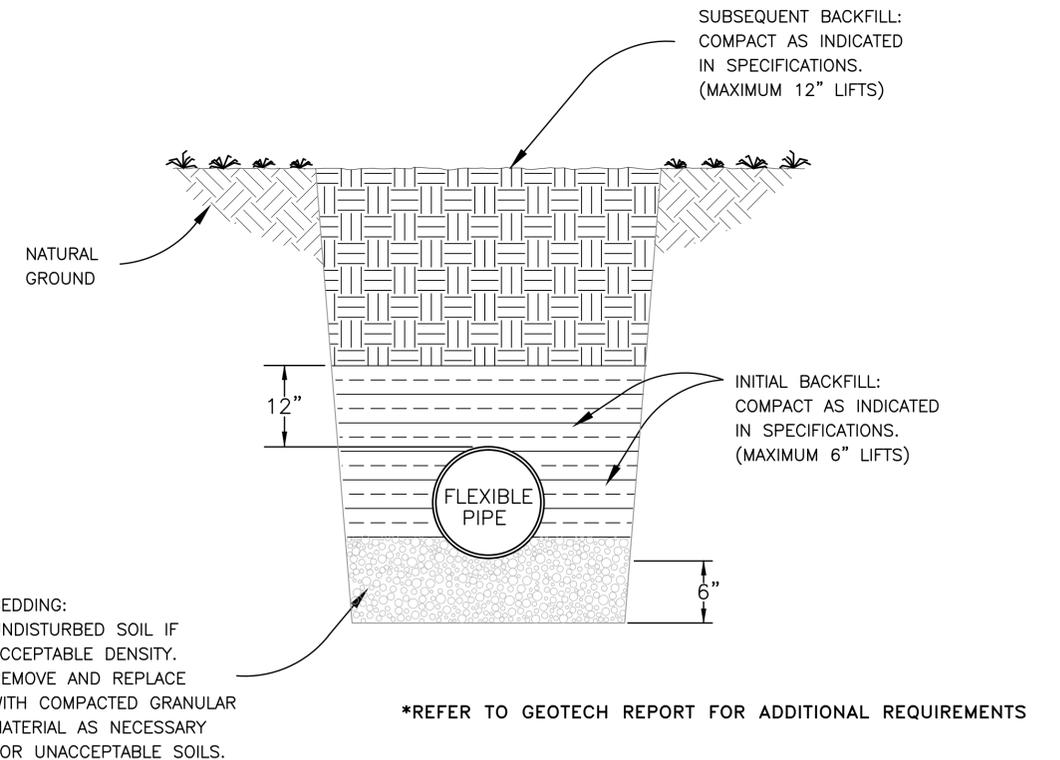
N.T.S.



CONFLICT DETAIL

N.T.S.

- NOTES:
- IF EXISTING PIPE IS WATER OR SEWER MAIN, REFER TO ENCASEMENT DETAIL FOR ADDITIONAL SPECIFICATIONS.
 - ALL FITTINGS ARE TO BE C.I. RETAINING JOINT TYPE.



BEDDING:
UNDISTURBED SOIL IF
ACCEPTABLE DENSITY.
REMOVE AND REPLACE
WITH COMPACTED GRANULAR
MATERIAL AS NECESSARY
FOR UNACCEPTABLE SOILS.

*REFER TO GEOTECH REPORT FOR ADDITIONAL REQUIREMENTS

FLEXIBLE PIPE BEDDING

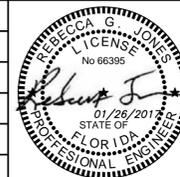
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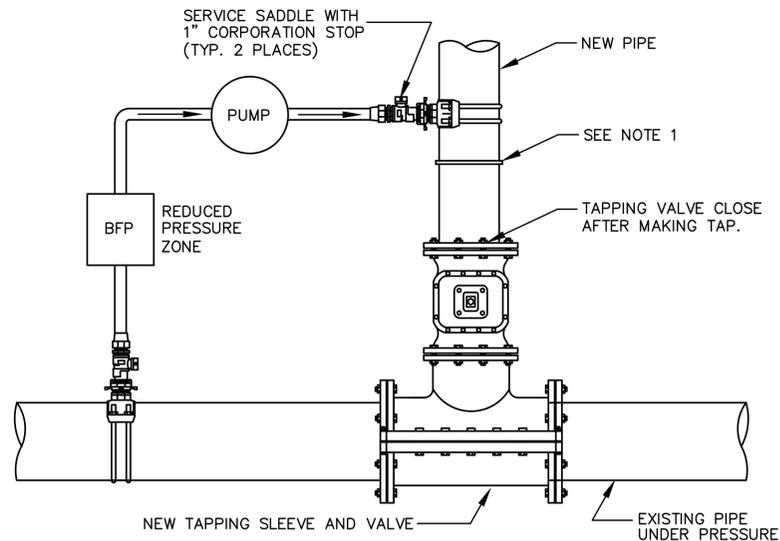
ESCAMBIA COUNTY
ENGINEERING DEPARTMENT



| | | | | | | | | | |
|---|-----------------|----------------------|---------------|-----------------|------------------|-----------------|-----------------------|-----------------------|---------------|
| 6706-C PLANTATION ROAD PENSACOLA, FL 32504 | SCALE: SEE PLAN | PLOT SCALE: SEE PLAN | DRAWN BY: RGJ | CHECKED BY: LJG | APPROVED BY: LJG | DATE: JUNE 2016 | JOB NO.: 15-1101-0297 | DRAWING NO.: 22 OF 31 | REVISION NO.: |
|---|-----------------|----------------------|---------------|-----------------|------------------|-----------------|-----------------------|-----------------------|---------------|

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

WATER
DETAIL PLAN



TYPICAL CONNECTION FOR NEW LINE FILLING, PRESSURE TESTING, FLUSHING AND CHLORINATION. (TAPPING SLEEVE AND VALVE)

TYPICAL DISINFECTION & CHLORINATION

NOTES:

1. NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORILY COMPLETED NEW MAIN IS TO BE CONNECTED TO TAPPING VALVE. TAPPING VALVE IS TO REMAIN CLOSED.
2. THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH THE TAPPING VALVE WITH ALL HYDRANTS AND SERVICE LINES OPEN. C.W.W. INSPECTOR SHALL BE THE ONLY PERSON ALLOWED TO OPERATE THE VALVE AND SHALL BE PRESENT DURING FLUSHING OPERATION. ONCE FLUSHING IS COMPLETE THE INSPECTOR SHALL CLOSE THE VALVE.
3. ONCE SATISFACTORY BACTERIOLOGICAL SAMPLES ARE OBTAINED THE CONTRACTOR SHALL CLOSE BOTH CORPORATION STOPS AND REMOVE SERVICE TUBING, PUMP AND BACKFLOW PREVENTER; CAP CORPORATION STOPS WITH BRASS CAPS.
4. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR FILLING, CHLORINATING AND TESTING PROCEDURES. CONTRACTOR SHALL PROVIDE SAMPLING TAPS AT THOSE LOCATIONS APPROVED BY THE C.W.W. INSPECTOR. E.C.U.A. SHALL COLLECT TEST SAMPLES.

CHLORINE REQUIRED FOR STERILIZATION

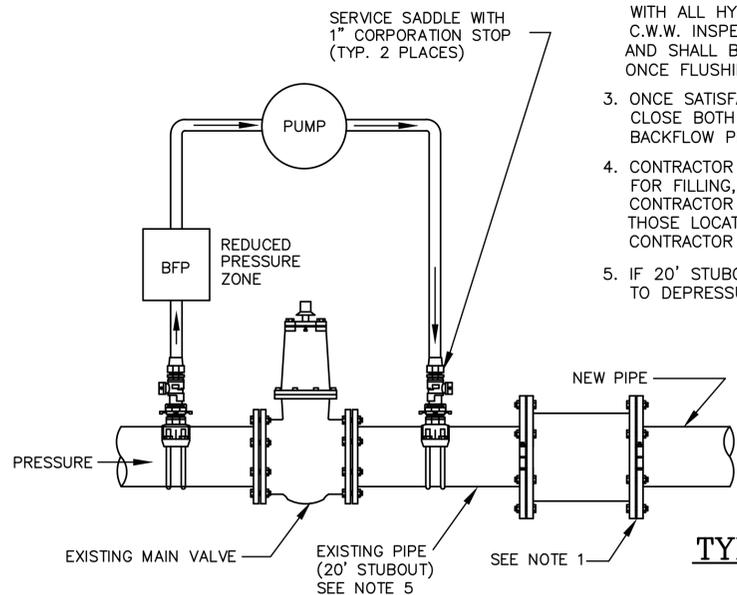
| PIPE SIZE | SPECIFICATION | I.D. INCHES | GALLS/100' | CHLORINE REQUIRED PER 100' FOR 25ppm | CHLORINE REQUIRED PER 100' FOR 50ppm |
|-----------|---------------|-------------|------------|--------------------------------------|--------------------------------------|
| 2" | D2241 DR26 | 2.193 | 20 | 0.10 oz. | 0.20 oz. |
| 3" | D2241 DR26 | 3.230 | 43 | 0.22 oz. | 0.44 oz. |
| 4" | C-900 DR18 | 4.230 | 73 | 0.37 oz. | 0.75 oz. |
| 6" | C-900 DR25 | 4.390 | 79 | 0.40 oz. | 0.81 oz. |
| 6" | C-900 DR18 | 6.090 | 151 | 0.78 oz. | 1.55 oz. |
| 8" | C-900 DR25 | 6.300 | 162 | 0.83 oz. | 1.66 oz. |
| 8" | C-900 DR18 | 7.980 | 260 | 1.33 oz. | 2.67 oz. |
| 12" | C-900 DR25 | 8.280 | 280 | 1.44 oz. | 2.87 oz. |
| 12" | C-900 DR18 | 11.650 | 554 | 2.84 oz. | 5.69 oz. |
| 16" | C-900 DR25 | 12.080 | 595 | 3.06 oz. | 6.12 oz. |
| 16" | C-905 DR18 | 15.470 | 977 | 5.01 oz. | 10.03 oz. |
| 16" | C-905 DR25 | 16.010 | 1,046 | 5.37 oz. | 10.74 oz. |
| 20" | C-905 DR18 | 19.200 | 1,504 | 7.72 oz. | 15.45 oz. |
| 20" | C-905 DR25 | 19.870 | 1,611 | 8.27 oz. | 16.55 oz. |
| 24" | C-905 DR18 | N/A | N/A | N/A | N/A |
| 24" | C-905 DR25 | 23.742 | 2,300 | 11.81 oz. | 23.62 oz. |

- NOTE :
- 16", 20" AND 24" PIPE SIZES ARE C.I.O.D.
 - FOR HTH WITH 65% AVAILABLE CHLORINE
 - 1 US GALLON WEIGHS 8.345 #
 - APPROX. 1 oz./100 gal FOR 50 ppm
 - APPROX. 0.5 oz./100 gal FOR 25 ppm

CHLORINE REQUIRED FOR STERILIZATION

NOTES:

1. NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORILY COMPLETED NEW MAIN IS TO BE CONNECTED TO EXISTING MAIN IN A MANNER ACCEPTABLE TO C.W.W.
2. THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH THE EXISTING VALVE WITH ALL HYDRANTS AND SERVICE LINES OPEN. C.W.W. INSPECTOR SHALL BE THE ONLY PERSON ALLOWED TO OPERATE THE VALVE AND SHALL BE PRESENT DURING FLUSHING OPERATION. ONCE FLUSHING IS COMPLETE THE INSPECTOR SHALL CLOSE THE VALVE.
3. ONCE SATISFACTORY BACTERIOLOGICAL SAMPLES ARE OBTAINED THE CONTRACTOR SHALL CLOSE BOTH CORPORATION STOPS AND REMOVE SERVICE TUBING, PUMP AND BACKFLOW PREVENTER; CAP CORPORATION STOPS WITH BRASS CAPS.
4. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR FILLING, CHLORINATING AND TESTING PROCEDURES. CONTRACTOR SHALL PROVIDE SAMPLING TAPS AT THOSE LOCATIONS APPROVED BY THE C.W.W. INSPECTOR. CONTRACTOR SHALL COLLECT TEST SAMPLES.
5. IF 20' STUBOUT IS NOT PRESENT SPECIAL ARRANGEMENTS WILL HAVE TO BE MADE TO DEPRESSURIZE THE EXISTING MAIN TO MAKE CONNECTION TO THE EXISTING VALVE.

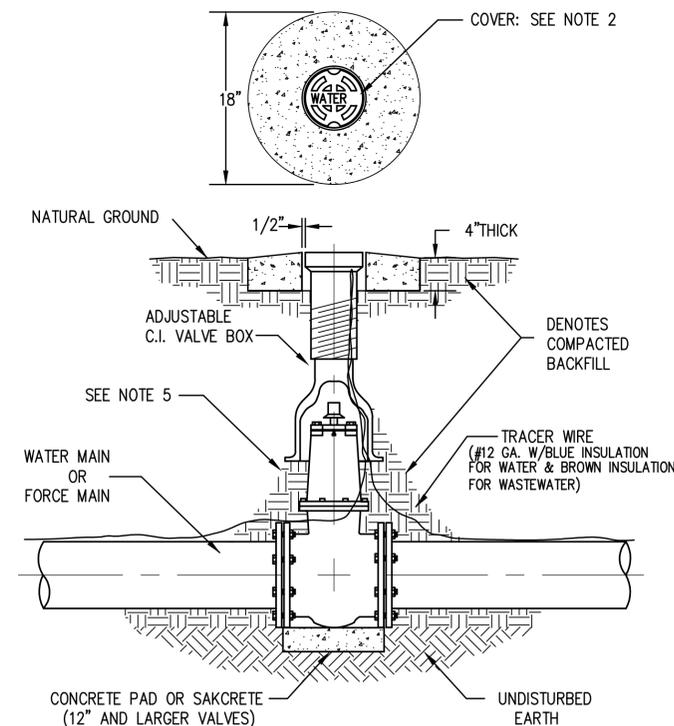


TYPICAL CONNECTION FOR NEW LINE FILLING, PRESSURE TESTING, FLUSHING AND CHLORINATION. (EXISTING STUBOUT)

TYPICAL DISINFECTION & CHLORINATION

NOTES:

1. VALVE BOX AND BOOT SHALL BE CAST IRON.
2. VALVE COVER SHALL BE MARKED "WATER" OR "SEWER" AS APPLICABLE.
3. VALVE BOX TOP SHALL BE FLUSH WITH FINISHED GRADE OR 1/2" ABOVE NATURAL GROUND LEVEL.
4. GATE VALVE SHALL BE RESILIENT SEAT WITH MECHANICAL JOINT ENDS OR APPROVED EQUAL.
5. EARTH UNDER FLANGE OF VALVE BOX & COLLAR TO BE FIRM AND WELL TAMPED TO ENSURE AGAINST VALVE BOX SETTLING.



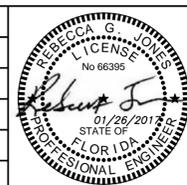
TYPICAL VALVE & BOX INSTALLATION

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ESCAMBIA COUNTY
ENGINEERING DEPARTMENT



6706-C PLANTATION ROAD
PENSACOLA, FL 32504

SCALE: SEE PLAN

PLOT SCALE: SEE PLAN

DRAWN BY: RGJ

CHECKED BY: LJJ

APPROVED BY: LJJ

DATE: JUNE 2016

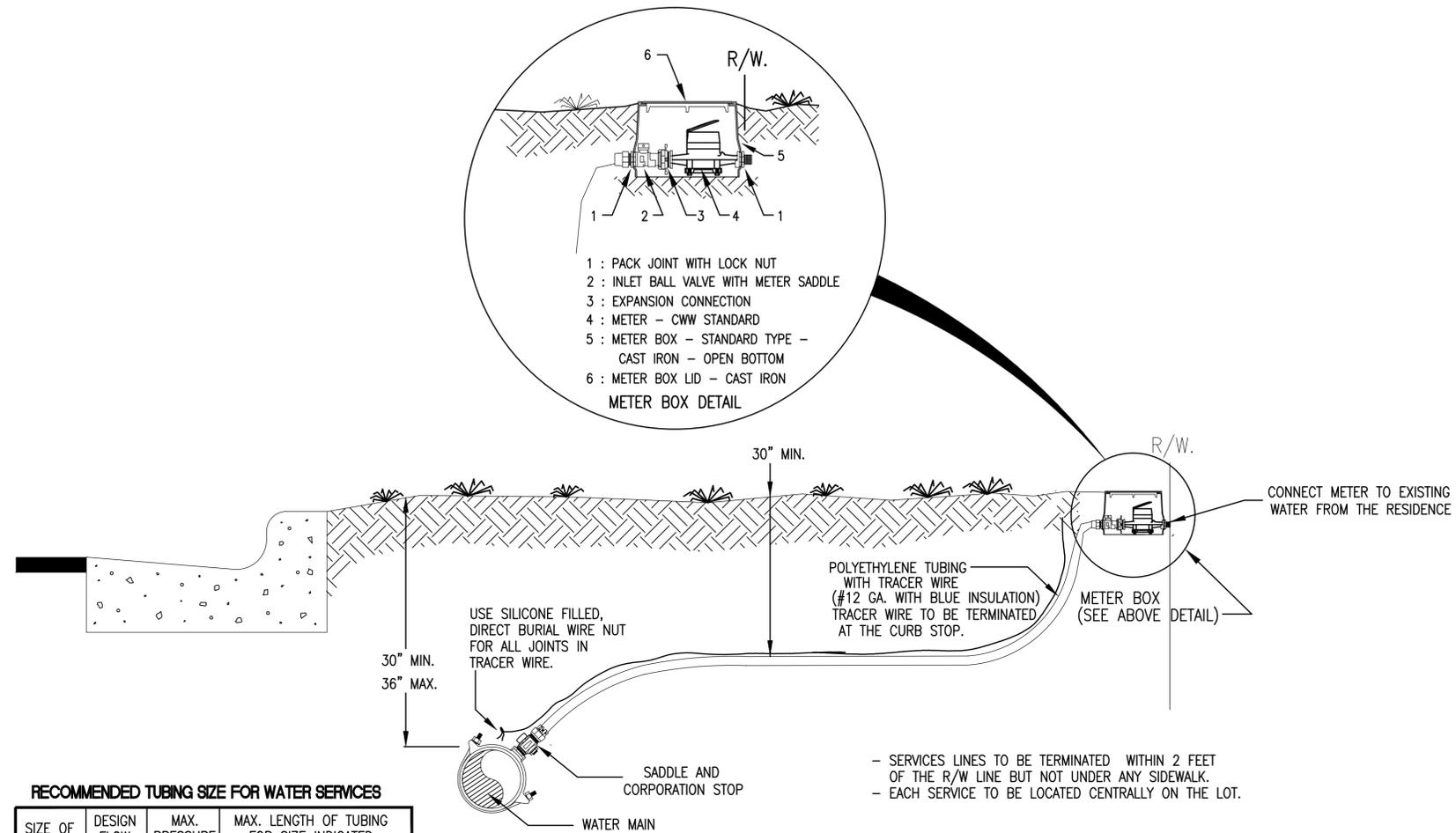
JOB NO.: 15-1101-0297

DRAWING NO.: 23 OF 31

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

WATER
DETAIL PLAN

TEL: (850) 202-3030



- METER BOX DETAIL**
- 1 : PACK JOINT WITH LOCK NUT
 - 2 : INLET BALL VALVE WITH METER SADDLE
 - 3 : EXPANSION CONNECTION
 - 4 : METER - CWW STANDARD
 - 5 : METER BOX - STANDARD TYPE - CAST IRON - OPEN BOTTOM
 - 6 : METER BOX LID - CAST IRON

RECOMMENDED TUBING SIZE FOR WATER SERVICES

| SIZE OF METER | DESIGN FLOW (GPM) | MAX. PRESSURE LOSS (PSI) | MAX. LENGTH OF TUBING FOR SIZE INDICATED | | |
|---------------|-------------------|--------------------------|--|--------|------|
| | | | 1" | 1 1/2" | 2" |
| 5/8" | 20 | 10 | 92 | 661 | 2679 |
| 1" | 50 | 10 | 17 | 121 | 492 |
| 1 1/2" | 100 | 10 | | 34 | 136 |
| 2" | 160 | 10 | | | 57 |

- SERVICES LINES TO BE TERMINATED WITHIN 2 FEET OF THE R/W LINE BUT NOT UNDER ANY SIDEWALK.
- EACH SERVICE TO BE LOCATED CENTRALLY ON THE LOT.

REFER TO SECTIONS 556 & 2556 OF ECUA'S ENGINEERING MANUAL FOR FURTHER INFO.

TYPICAL WATER SERVICE INSTALLATION
N.T.S.

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**ESCAMBIA COUNTY
ENGINEERING DEPARTMENT**

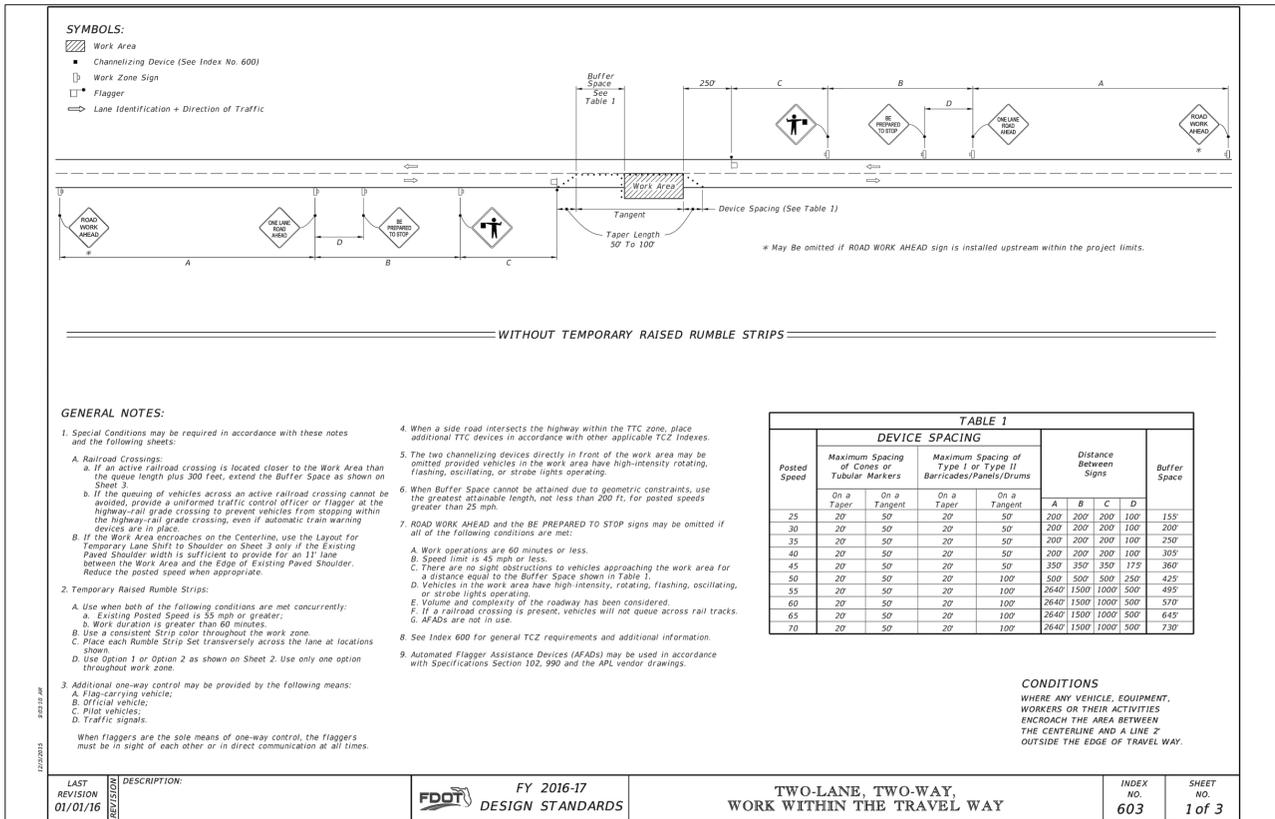
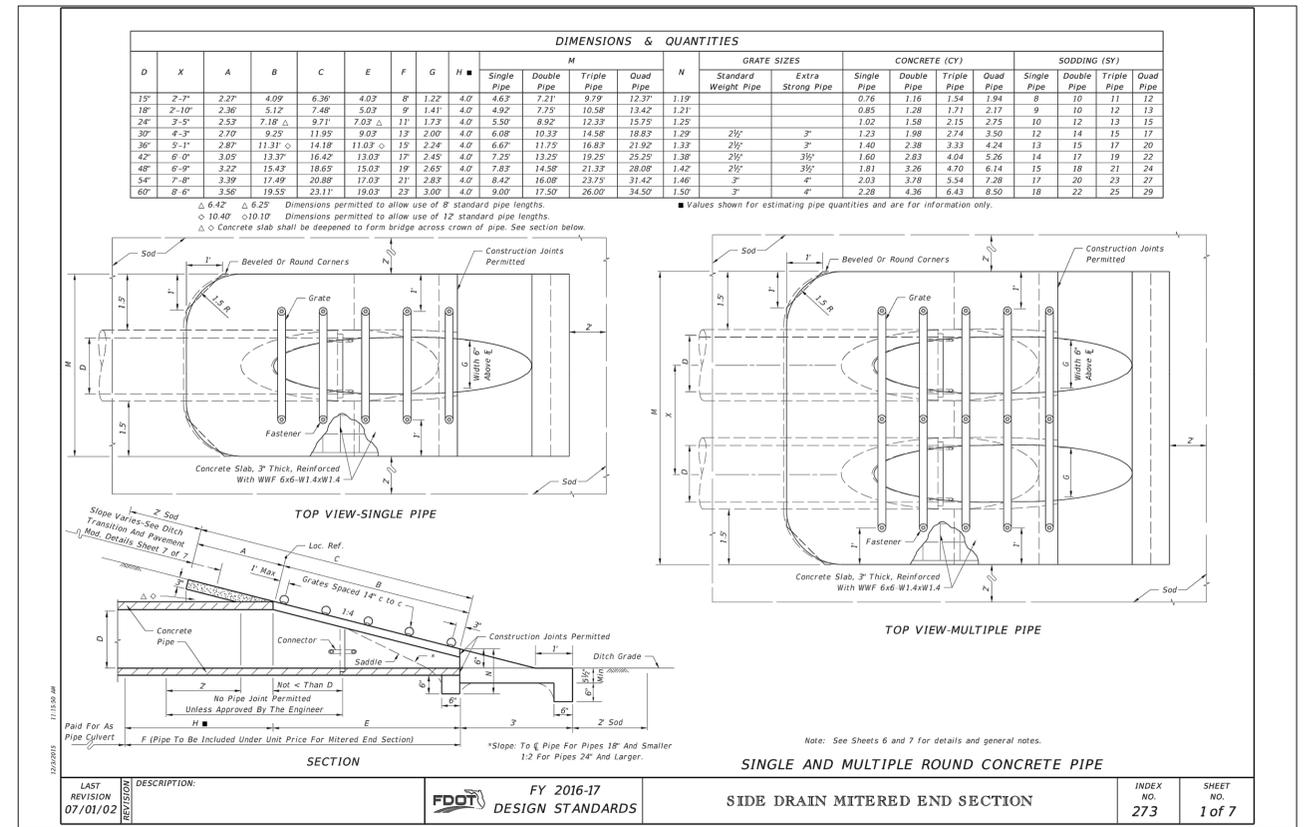
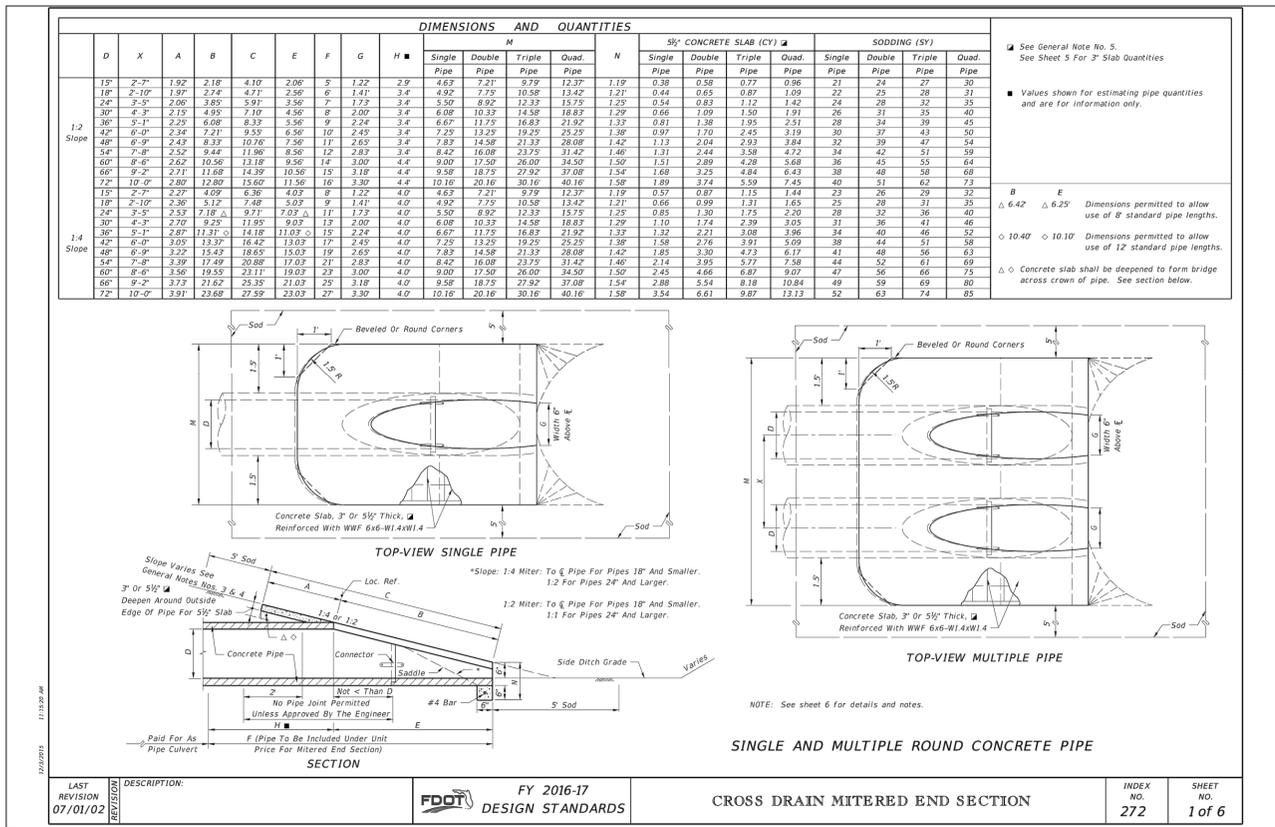


6706-C PLANTATION ROAD
PENSACOLA, FL 32504
SCALE: SEE PLAN PLOT SCALE: SEE PLAN DRAWN BY: RGJ CHECKED BY: LJJ APPROVED BY: LJJ TEL: (850) 202-3030

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

WATER
DETAIL PLAN

| DATE | JOB NO. | DRAWING NO. | REVISION NO. |
|-----------|--------------|-------------|--------------|
| JUNE 2016 | 15-1101-0297 | 24 OF 31 | |



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ESCAMBIA COUNTY ENGINEERING DEPARTMENT

thompson ENGINEERING

6706-C PLANTATION ROAD
PENSACOLA, FL 32504

SCALE: SEE PLAN | PLOT SCALE: SEE PLAN | DRAWN BY: RGJ | CHECKED BY: LJC | APPROVED BY: LJC

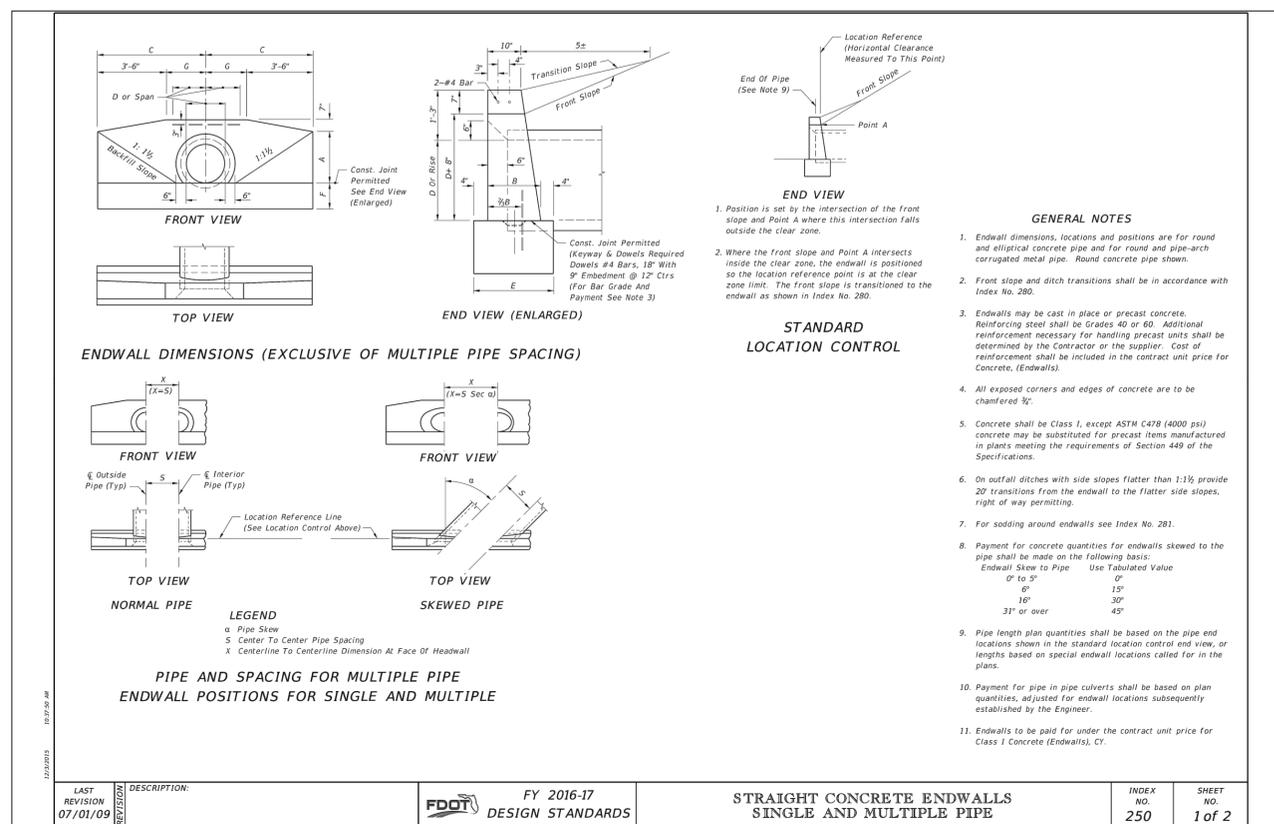
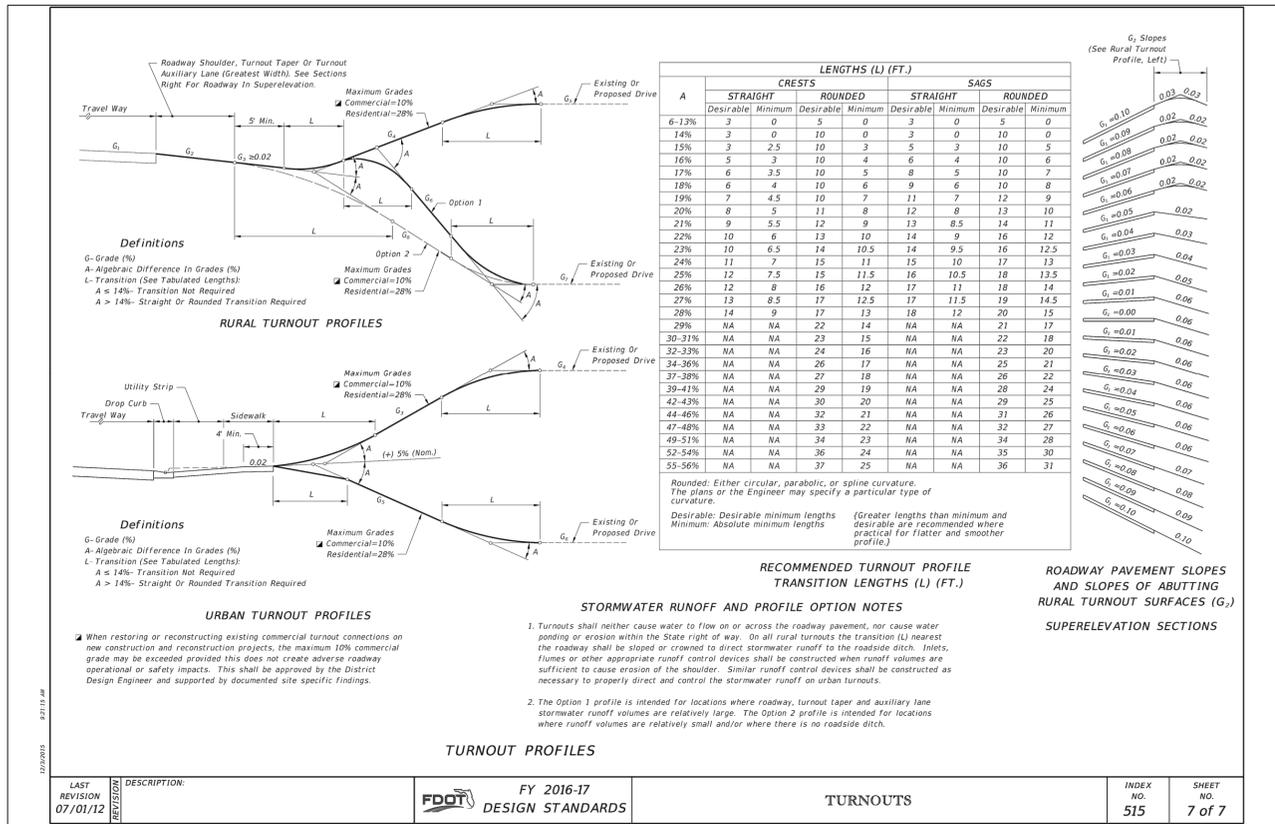
DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

STORMWATER DETAILS
MAINTENANCE OF TRAFFIC DETAILS

TEL: (850) 202-3030

DATE: JUNE 2016 | JOB NO.: 15-1101-0297 | DRAWING NO.: 25 OF 31 | REVISION NO.:

| REVISION NO. | DESCRIPTION | DATE | BY: |
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ESCAMBIA COUNTY
ENGINEERING DEPARTMENT



6706-C PLANTATION ROAD
PENSACOLA, FL 32504
SCALE: SEE PLAN PLOT SCALE: SEE PLAN DRAWN BY: RGJ CHECKED BY: LJC APPROVED BY: LJC DATE: JUNE 2016

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

FDOT DETAILS

INDEX NO. 250 SHEET NO. 1 of 2
JOB NO. 15-1101-0297 DRAWING NO. 26 OF 31

| McNeal Road - Earthwork | | | | | | | |
|-------------------------|--------------------|-------|---------------------|--------|--------------------------------|---------|-------------------------|
| Station | Area (Square Feet) | | Volume (Cubic Yard) | | Cumulative Volume (Cubic Yard) | | Net Volume (Cubic Yard) |
| | CUT | FILL | CUT | FILL | CUT | FILL | NET |
| 10+09.44 | 69.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10+50 | 191.03 | 0.00 | 194.38 | 0.00 | 194.38 | 0.00 | 194.38 |
| 11+00 | 153.55 | 0.00 | 313.88 | 0.00 | 508.26 | 0.00 | 508.26 |
| 11+50 | 119.86 | 0.00 | 251.77 | 0.00 | 760.04 | 0.00 | 760.04 |
| 12+00 | 76.40 | 4.02 | 181.73 | 3.72 | 941.76 | 3.72 | 938.04 |
| 12+50 | 35.05 | 12.72 | 103.19 | 15.50 | 1044.96 | 19.22 | 1025.73 |
| 13+00 | 14.00 | 27.28 | 45.41 | 37.04 | 1090.37 | 56.26 | 1034.10 |
| 13+50 | 4.84 | 36.15 | 17.44 | 58.74 | 1107.81 | 115.00 | 992.81 |
| 14+00 | 9.89 | 34.29 | 13.64 | 65.23 | 1121.45 | 180.23 | 941.23 |
| 14+50 | 9.29 | 28.25 | 17.76 | 57.91 | 1139.21 | 238.13 | 901.08 |
| 15+00 | 19.26 | 19.09 | 26.44 | 43.83 | 1165.65 | 281.96 | 883.69 |
| 15+50 | 17.61 | 18.44 | 34.14 | 34.75 | 1199.79 | 316.71 | 883.07 |
| 16+00 | 14.28 | 19.98 | 29.52 | 35.58 | 1229.31 | 352.29 | 877.02 |
| 16+50 | 7.98 | 27.35 | 20.61 | 43.82 | 1249.92 | 396.11 | 853.81 |
| 17+00 | 2.21 | 38.28 | 9.44 | 60.77 | 1259.36 | 456.88 | 802.48 |
| 17+50 | 1.34 | 35.83 | 3.28 | 68.62 | 1262.64 | 525.50 | 737.14 |
| 18+00 | 0.00 | 49.74 | 1.24 | 79.24 | 1263.88 | 604.73 | 659.14 |
| 18+50 | 0.00 | 54.68 | 0.00 | 96.69 | 1263.88 | 701.42 | 562.46 |
| 19+00 | 0.36 | 53.69 | 0.33 | 100.34 | 1264.21 | 801.76 | 462.44 |
| 19+50 | 0.70 | 44.43 | 0.98 | 90.86 | 1265.19 | 892.62 | 372.57 |
| 20+00 | 0.12 | 53.01 | 0.76 | 90.23 | 1265.95 | 982.85 | 283.10 |
| 20+50 | 1.25 | 46.78 | 1.28 | 92.40 | 1267.23 | 1075.25 | 191.98 |
| 21+00 | 1.72 | 29.52 | 2.75 | 70.65 | 1269.98 | 1145.89 | 124.09 |
| 21+50 | 5.84 | 26.13 | 7.00 | 51.52 | 1276.97 | 1197.42 | 79.56 |
| 22+00 | 11.51 | 15.64 | 16.07 | 38.67 | 1293.04 | 1236.09 | 56.95 |
| 22+50 | 19.59 | 10.20 | 28.80 | 23.92 | 1321.84 | 1260.01 | 61.83 |
| 23+00 | 34.88 | 5.60 | 50.43 | 14.63 | 1372.27 | 1274.64 | 97.63 |
| 23+50 | 41.38 | 2.47 | 70.61 | 7.47 | 1442.88 | 1282.12 | 160.76 |
| 24+00 | 70.83 | 0.00 | 103.90 | 2.29 | 1546.78 | 1284.40 | 262.38 |
| 24+50 | 93.18 | 0.00 | 151.86 | 0.00 | 1698.65 | 1284.40 | 414.24 |
| 25+00 | 105.09 | 0.00 | 183.59 | 0.00 | 1882.23 | 1284.40 | 597.83 |
| 25+50 | 117.09 | 0.00 | 205.73 | 0.00 | 2087.96 | 1284.40 | 803.56 |
| 26+00 | 109.32 | 0.00 | 209.64 | 0.00 | 2297.60 | 1284.41 | 1013.19 |
| 26+50 | 137.01 | 0.00 | 228.08 | 0.00 | 2525.68 | 1284.42 | 1241.27 |
| 27+00 | 175.63 | 0.00 | 289.48 | 0.00 | 2815.16 | 1284.42 | 1530.75 |
| 27+50 | 209.11 | 0.00 | 356.24 | 0.00 | 3171.40 | 1284.42 | 1886.98 |
| 28+00 | 249.88 | 0.00 | 424.99 | 0.00 | 3596.39 | 1284.42 | 2311.97 |
| 28+50 | 259.21 | 0.00 | 471.38 | 0.00 | 4067.76 | 1284.42 | 2783.35 |
| 29+00 | 256.67 | 0.00 | 477.67 | 0.00 | 4545.43 | 1284.42 | 3261.01 |
| 29+50 | 228.56 | 0.00 | 449.29 | 0.00 | 4994.72 | 1284.42 | 3710.30 |
| 30+00 | 227.95 | 0.00 | 422.70 | 0.00 | 5417.42 | 1284.42 | 4133.00 |
| 30+50 | 214.48 | 0.00 | 409.66 | 0.00 | 5827.07 | 1284.42 | 4542.66 |
| 31+00 | 173.18 | 0.00 | 358.95 | 0.00 | 6186.02 | 1284.42 | 4901.60 |
| 31+50 | 129.52 | 0.52 | 280.28 | 0.48 | 6466.30 | 1284.90 | 5181.40 |
| 32+00 | 114.66 | 0.95 | 226.05 | 1.36 | 6692.34 | 1286.26 | 5406.09 |
| 32+50 | 91.92 | 1.06 | 191.27 | 1.86 | 6883.62 | 1288.12 | 5595.50 |
| 33+00 | 87.30 | 0.19 | 165.94 | 1.16 | 7049.56 | 1289.27 | 5760.28 |
| 33+50 | 73.60 | 0.03 | 148.98 | 0.20 | 7198.54 | 1289.47 | 5909.07 |
| 34+00 | 40.75 | 5.60 | 105.88 | 5.21 | 7304.42 | 1294.68 | 6009.74 |
| 34+50 | 36.63 | 4.11 | 71.64 | 8.99 | 7376.06 | 1303.66 | 6072.40 |
| 35+00 | 27.74 | 11.90 | 59.60 | 14.82 | 7435.66 | 1318.49 | 6117.17 |
| 35+50 | 17.17 | 18.39 | 41.04 | 28.56 | 7476.70 | 1347.05 | 6129.65 |
| 36+00 | 15.34 | 15.45 | 28.83 | 32.76 | 7505.52 | 1379.80 | 6125.72 |
| 36+50 | 31.20 | 15.54 | 40.86 | 30.61 | 7546.38 | 1410.41 | 6135.97 |

| McNeal - Structure Table | | | | |
|--------------------------|-------------------|-----------------|-----------|-------------------|
| Structure Name | Description | Station | Rim Elev. | Invert Elev(s) |
| (1) | M.E.S. | 10+74.96 26' R | 240.00 | 237.80 (ERCP)(SE) |
| (2) | M.E.S. | 10+95.49 -19' L | 240.50 | 238.50 (ERCP)(NW) |
| (3) | CONCRETE HEADWALL | 15+26.53 19' R | 239.65 | 237.85 (ERCP)(E) |
| (4) | CONCRETE HEADWALL | 15+26.65 -19' L | 240.15 | 238.60 (ERCP)(W) |
| (5) | M.E.S. | 18+21.71 19' R | 242.18 | 240.60 (ERCP)(S) |
| (6) | M.E.S. | 18+63.71 19' R | 242.48 | 240.90 (ERCP)(N) |
| (7) | M.E.S. | 29+11.57 20' R | 245.21 | 243.63 (ERCP)(S) |
| (8) | M.E.S. | 29+53.55 20' R | 244.48 | 242.90 (ERCP)(N) |
| (137) | M.E.S. | 24+41.52 20' R | 246.38 | 244.30 (ERCP)(N) |
| (138) | M.E.S. | 24+07.10 20' R | 246.18 | 244.10 (ERCP)(S) |
| (139) | M.E.S. | 28+47.31 -22' L | 245.73 | 244.15 (ERCP)(S) |
| (140) | M.E.S. | 28+82.43 -22' L | 245.18 | 243.60 (ERCP)(N) |

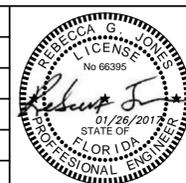
| McNeal - Pipe Table | | | | | | | | |
|---------------------|--------------------|----------------------|------------------|-------------|------------------------|--------|-------|----------|
| Upstream Structure | Pipe Start Station | Downstream Structure | Pipe End Station | Pipe Height | Pipe Diameter or Width | Length | Slope | Material |
| (2) | 10+95.49 -19' L | (1) | 10+74.96 26' R | 19" | 30" | 50' | 1.41% | ERCP |
| (4) | 15+26.65 -19' L | (3) | 15+26.53 19' R | 34" | 53" | 37' | 2.01% | ERCP |
| (6) | 18+63.71 19' R | (5) | 18+21.71 19' R | 14" | 23" | 42' | 0.71% | ERCP |
| (7) | 29+11.57 20' R | (8) | 29+53.55 20' R | 14" | 23" | 42' | 1.74% | ERCP |
| (137) | 24+41.52 20' R | (138) | 24+07.10 20' R | 14" | 23" | 34' | 0.58% | ERCP |
| (139) | 28+47.31 -22' L | (140) | 28+82.43 -22' L | 14" | 23" | 35' | 1.57% | ERCP |

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ESCAMBIA COUNTY
ENGINEERING DEPARTMENT



6706-C PLANTATION ROAD
PENSACOLA, FL 32504

TEL: (850) 202-3030

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|-----------------|----------------------|---------------|-----------------|------------------|-----------------|-----------------------|-----------------------|---------------|
| SCALE: SEE PLAN | PLOT SCALE: SEE PLAN | DRAWN BY: RGJ | CHECKED BY: LJC | APPROVED BY: LJC | DATE: JUNE 2016 | JOB NO.: 15-1101-0297 | DRAWING NO.: 27 OF 31 | REVISION NO.: |
|-----------------|----------------------|---------------|-----------------|------------------|-----------------|-----------------------|-----------------------|---------------|

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

LIST OF QUANTITIES & PAY ITEMS

PAY ITEMS - MCNEAL ROAD

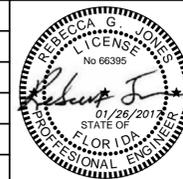
| Item No. | Item Description | Quantity | Units |
|----------|---|----------|------------|
| 1 | Performance Bond | | Per \$1000 |
| 2 | Mobilization, 0 - 15 Miles | 1 | EA |
| 3 | Clearing and Grubbing, per County Specifications 2230 (Includes All Tree Removals), Estimated Quantity of 503. sy | 1 | LS |
| 4 | Relocate existing standard mailbox | 2 | EA |
| 5 | Earthwork Excavate, Haul, and Install, On-site | 7547 | CY |
| 6 | Earthwork Borrow, FDOT Specification 120-2.2.2 | 1411 | CY |
| 7 | 3" Top Soil | 10305 | SY |
| 8 | Stabilization Mat Type R-1 | 2377 | SY |
| 9 | 2" County Spec 2500 Type SP 12.5 Asphalt, over 1500sy | 6433 | SY |
| 10 | 1 1/4" County Spec 2500 Type SP 12.5 Asphalt (Driveways) in place, includes compacted subgrade | 111 | SY |
| 11 | 12" Stabilized Subgrade, County Spec 2300, over 1000sy | 7021 | SY |
| 12 | Prime Coat, over 1000sy | 6723 | SY |
| 13 | 8" Graded aggregate Base "Min. LBR 100 at 100% Modified Proctor", County Spec 2400, over 1000sy | 250 | SY |
| 14 | 4" Sand Clay Base (Driveways), less than 1000sy | 111 | SY |
| 15 | 8" Sand-Clay Base, County Spec 2460, over 1000sy | 6723 | SY |
| 16 | Thermoplastic 4" Double Solid Stripe, White or Yellow | 2820 | LF |
| 17 | Thermoplastic Stop Bar | 15 | LF |
| 18 | Stop Sign, R1-1 | 1 | EA |
| 19 | Black on Orange Warning Sign | 5 | EA |
| 20 | Regulatory Sign Black on White Metal Sign | 2 | EA |
| 21 | Develop and provide an approved MOT traffic safety plan both map type and written type by a Certified Work Zone Safety Traffic Supervisor | 1 | EA |
| 22 | Variable Message Sign | 4 | EA/Day |
| 23 | Flag Man | 2 | EA/Day |
| 24 | Black on Orange Warning Sign | 8 | EA/Day |
| 25 | R1-1 Stop Metal Sign | 2 | EA/Day |
| 26 | 28" or Larger Reflective Striped Cone | 54 | EA/Day |
| 27 | Fiber Reinforced Concrete Ditch Paving w/ Weep Holes, FDOT Index 281, Min 3" thick | 1918 | SY |
| 28 | Misc. Concrete | 5 | CY |
| 29 | 14" X 23" ERCP Pipe, 0'-6" depth | 161 | LF |
| 30 | 19" X 30" ERCP Pipe, 0'-6" depth | 50 | LF |
| 31 | 34" X 53" ERCP Pipe, 0'-6" depth | 37 | LF |
| 32 | 19" X 30" ERCP Cross Drain MES, FDOT Index 272, 280 | 2 | EA |
| 33 | 14" X 23" ERCP Side Drain MES, FDOT Index 273, 280 | 8 | EA |
| 34 | Class I Concrete for Endwalls (steel included) | 9 | CY |
| 35 | Pipe Removal, 30" and larger | 36 | LF |
| 36 | Remove Existing Sand Bag Headwall, 30" and Larger | 2 | EA |
| 37 | 6" PVC Waterline, 0'-6" depth | 2577 | LF |
| 38 | 1" Water Service Line - Short | 15 | LF |
| 39 | 6" x 6" Tapping Sleeve w/Valve | 1 | EA |
| 40 | 6" x 6" x 6" Tee Fitting | 1 | EA |
| 41 | 6" Elbow, 22.5°, 45°, 90° | 4 | EA |
| 42 | Relocate Water Meter | 2 | EA |
| 43 | Centipede Sod, Staked, over 1000sy | 10305 | SY |
| 44 | 18" Depth Rip Rap Rubble w/ 4" Bedding Stone and Geotextile | 20 | SY |
| 45 | Silt Fence Type III, over 500lf | 5209 | LF |
| 46 | Establish, quantify, and submit an approved erosion control plan prepared by a certified technician. | 1 | EA |
| 47 | NPDES Construction General Permit, NOI, and NOT (including SWPPP and monitoring), for use only with disturbed areas over 1.0 acre | 1 | EA |
| 48 | 4' Wire Fence | 1295 | LF |
| 49 | Remove Existing Wire Fence | 1295 | LF |
| 50 | End/Pull Post, Wood Post, 4' Wire Fence | 6 | EA |
| 51 | Waterproof Jobsite Storage Board Container/Tube for project information, permits, SWPPP plans, etc. | 1 | EA |

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DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

LIST OF QUANTITIES & PAY ITEMS

REQUIREMENTS

CONTRACTOR'S REQUIREMENTS

SITE DESCRIPTION

PROJECT NAME AND LOCATION:
MCNEAL ROAD DIRT ROAD PAVING
CENTURY, FLORIDA

OWNER NAME AND ADDRESS:
ESCAMBIA COUNTY PUBLIC WORKS
3363 WEST PARK PLACE
PENSACOLA, FL 32505

DESCRIPTION:
THE PROPOSED IMPROVEMENTS CONSIST OF PAVING THE CLAY TRAVEL LANES OF THE EXISTING ROADWAY AND CONSTRUCTING NEW ROADSIDE SWALES. THE NEW PAVED ROADWAY WILL BE 22' WIDE AND THE TOTAL LENGTH WILL BE APPROXIMATELY .050 MILES. THERE ARE NO WETLANDS OR OTHER SURFACE WATERS LOCATED WITHIN THE PROJECT AREA. THE EXISTING DIRT ROAD IS MAINTAINED BY ESCAMBIA COUNTY AND THE NEW PAVED ROADWAY AND SWALES WILL CONTINUE TO BE MAINTAINED BY ESCAMBIA COUNTY.

SOIL DISTURBING ACTIVITIES WILL INCLUDE:
CLEARING AND GRUBBING; EARTHWORK, PAVEMENT AND GRADING;
STORM SEWER, UTILITIES, AND PREPARATION FOR FINAL PLANTING AND SEEDING.

RUNOFF CURVE NUMBERS:
1. PRE-CONSTRUCTION = 79
2. DURING CONSTRUCTION = 79
3. POST-CONSTRUCTION = 79

SOILS:
SEE SOIL BORING REPORT FOR SOILS DATA

SITE MAPS:
* SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS.
* SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS
* SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.

SITE AREA:
1. TOTAL AREA OF SITE = 45.9 Ac.
2. TOTAL AREA TO BE DISTURBED = 4.0 Ac.

NAME OF RECEIVING WATERS: ESCAMBIA RIVER

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

| | |
|--|---|
| 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE | 9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER. |
| 2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED | 10. APPLY BASE TO PROJECT |
| 3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN | 11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING |
| 4. CONSTRUCT SEDIMENTATION BASIN | 12. COMPLETE FINAL PAVING |
| 5. CONTINUE CLEARING AND GRUBBING | 13. REMOVE ACCUMULATED SEDIMENT FROM BASINS |
| 6. STOCK PILE TOP SOIL IF REQUIRED | 14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED |
| 7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED | |
| 8. STABILIZE DENuded AREAS AND STOCKPILES AS SOON AS PRACTICABLE | |

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION & TURBIDITY CONTROL PLAN.

CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES

- HAY BALE BARRIER: HAY BALES BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.
REFER TO COUNTY STANDARD DETAILS FOR CONSTRUCTING THE HAY BALE BARRIER. AND FOR PROPER LOCATION, MATERIAL & USAGE.
- FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
REFER TO COUNTY STANDARD DETAILS FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER.
- BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.
- LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE

CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. LEVEL SPREADER SHALL BE CONSTRUCTED IN ACCORDANCE TO COUNTY STANDARD DETAIL.

5. STOCKPIILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPIILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.

6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.

7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.

8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.

9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.

10. TEMPORARY GRASSING: THE SEEDED OR SEEDDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.

11. TEMPORARY REGASSING : IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.

12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.

14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDDED AND MULCHED OR SOODED.

STRUCTURAL PRACTICES

- TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY. AND IT SHALL BE CONSTRUCTED IN ACCORDANCE TO D-914.
- TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDANTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:
A. BLOCK & GRAVEL SEDIMENT FILTER - THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. REFER TO D-902 FOR CONSTRUCTION OF A CURB INLET SEDIMENT FILTER, AND D-904 FOR CONSTRUCTION OF A DROP INLET SEDIMENT FILTER.
B. GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED AREAS. REFER TO D-903 FOR CONSTRUCTION OF CURB INLET & DROP SEDIMENT TRAP.
C. DROP INLET SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS. REFER TO D-905 FOR CONSTRUCTION OF HAY BALE & FABRIC SEDIMENT FILTER.
- OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.
- SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.

THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

OTHER CONTROLS

WASTE DISPOSAL

WASTE MATERIALS

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
- ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

| | | |
|--|--|--|
| <input checked="" type="checkbox"/> Concrete | <input checked="" type="checkbox"/> Fertilizers | <input checked="" type="checkbox"/> Wood |
| <input checked="" type="checkbox"/> Asphalt | <input checked="" type="checkbox"/> Petroleum Based Products | <input checked="" type="checkbox"/> Masonry Blocks |
| <input checked="" type="checkbox"/> Tar | <input checked="" type="checkbox"/> Cleaning Solvents | <input type="checkbox"/> Roofing Materials |
| <input type="checkbox"/> Detergents | <input type="checkbox"/> Paints | <input type="checkbox"/> Metal Studs |
| <input type="checkbox"/> _____ | <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

- * AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- * ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
- * PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- * SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- * WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
- * MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- * THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
- ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

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INVENTORY FOR POLLUTION PREVENTION PLAN

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| | | |
|--|--|--|
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| <input checked="" type="checkbox"/> Asphalt | <input checked="" type="checkbox"/> Petroleum Based Products | <input checked="" type="checkbox"/> Masonry Blocks |
| <input checked="" type="checkbox"/> Tar | <input checked="" type="checkbox"/> Cleaning Solvents | <input type="checkbox"/> Roofing Materials |
| <input type="checkbox"/> Detergents | <input type="checkbox"/> Paints | <input type="checkbox"/> Metal Studs |
| <input type="checkbox"/> _____ | <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

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- * PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- * SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- * WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
- * MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- * THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

- * NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- * ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.50 INCHES OR GREATER.
- * ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
- * BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

- * SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
- * THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.
- * DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
- * TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- * A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.
- * THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
- * PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

- * WATER FROM WATER LINE FLUSHING
- * PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).
- * UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

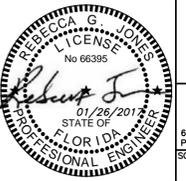
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|------------------------|--|----------------|----------------|----------------|----------------|
| RESPONSIBLE FOR/DUTIES | GENERAL CONTRACTOR | SUB-CONTRACTOR | SUB-CONTRACTOR | SUB-CONTRACTOR | SUB-CONTRACTOR |
| | BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS | | | | |
| SIGNATURE | | | | | |

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE COPIED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE THOMPSON ENGINEERING REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. UNAUTHORIZED USE IS SUBJECT TO LEGAL ACTION UNDER STATE AND FEDERAL LAW.



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ESCAMBIA COUNTY ENGINEERING DEPARTMENT

6706-C PLANTATION ROAD
PENSACOLA, FL 32504

thompson ENGINEERING

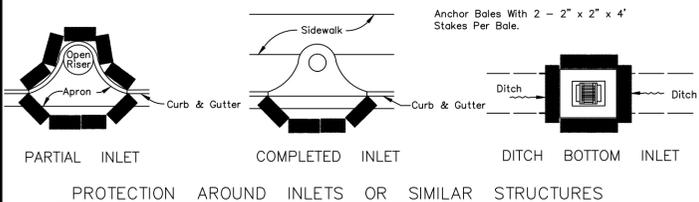
TEL: (850) 202-3030

SCALE: SEE PLAN PLOT SCALE: SEE PLAN DRAWN BY: RGJ CHECKED BY: LJC APPROVED BY: LJC

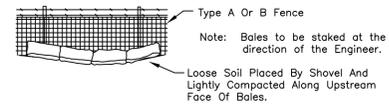
DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

EROSION & SEDIMENT CONTROL DETAILS

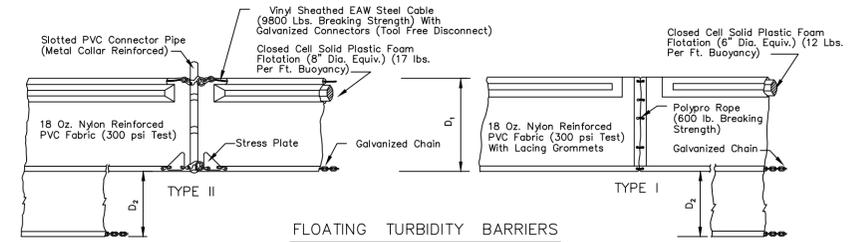
DATE: JUNE 2016 JOB NO.: 15-1101-0297 DRAWING NO.: 29 OF 31 REVISION NO.:



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

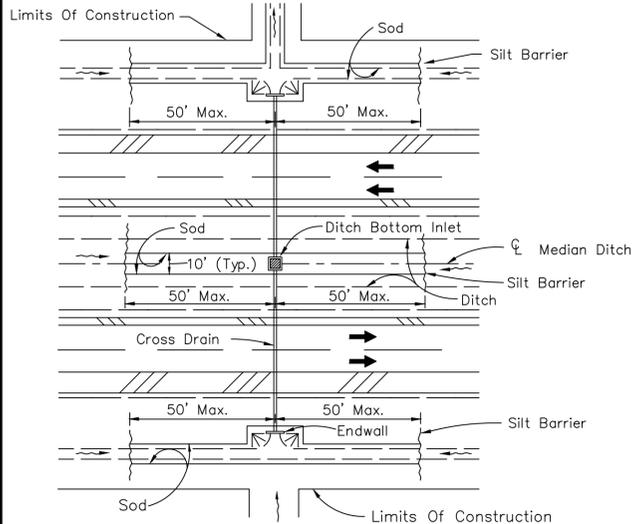


BALES BACKED BY FENCE

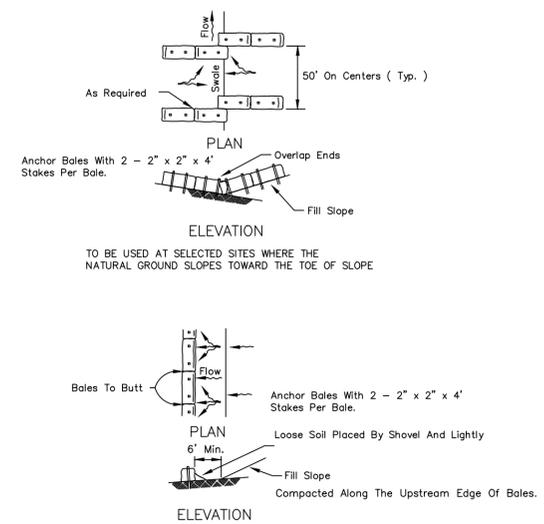


FLOATING TURBIDITY BARRIERS

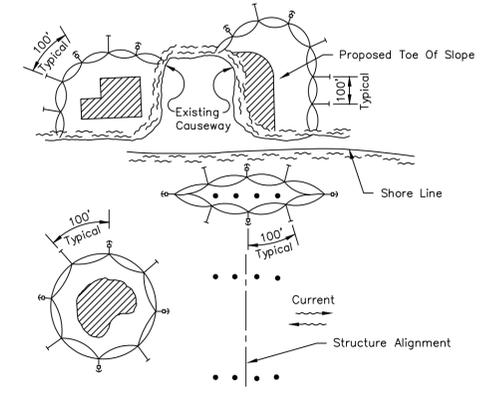
NOTICE:
COMPONENTS OF TYPES I & TYPE II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.



DITCH INSTALLATIONS AT DRAINAGE STRUCTURES



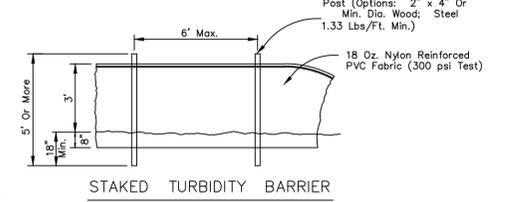
BARRIERS FOR FILL SLOPES



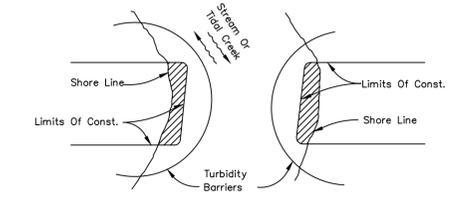
TURBIDITY BARRIER APPLICATIONS

- NOTES:
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
 2. Number and spacing of anchors dependent on current velocities.
 3. Deployment of barrier around pile locations may vary to accommodate construction operations.
 4. Navigation may require segmenting barrier during construction operations.
 5. For additional information see Section 104 of the FDOT Standard Specifications.

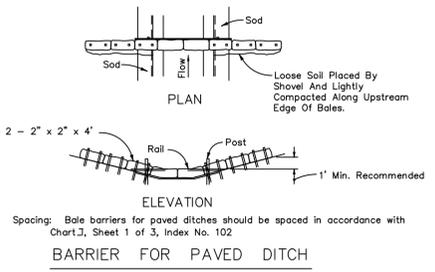
- LEGEND
- Pile Locations
 - ▨ Dredge Or Fill Area
 - Mooring Buoy w/Anchor
 - Anchor
 - Barrier Movement Due To Current Action



STAKED TURBIDITY BARRIER



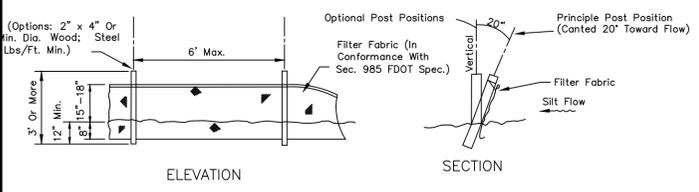
Note:
Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractors option unless otherwise specified in the plans, however payment will be under the contract lump sum price established in the bid proposal for Erosion & Sediment Control Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.



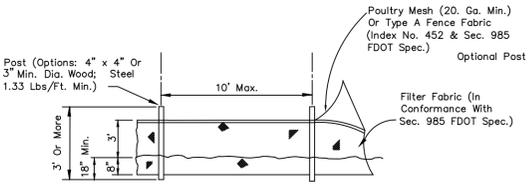
BARRIER FOR PAVED DITCH

HAY BALE LOCATION

N.T.S.

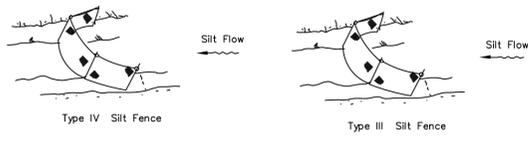


TYPE III SILT FENCE



TYPE IV SILT FENCE

Note: Silt Fence to be paid for under the contract lump sum price for Erosion and Sediment Control.

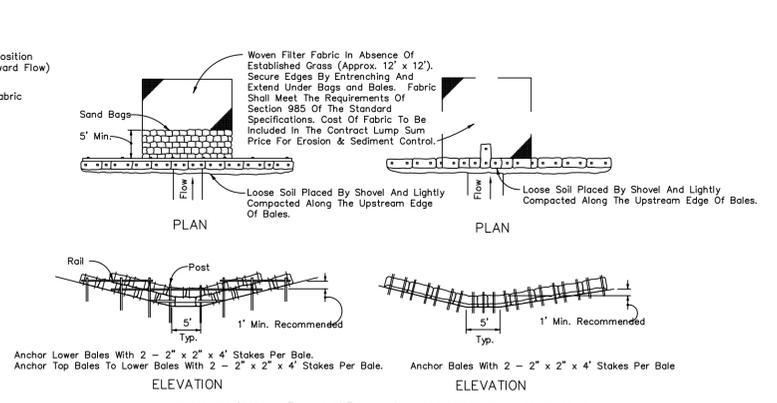


SILT FENCE APPLICATIONS

Note: Spacing for Type III & TYPE IV Fence to be in accordance with Chart I, Sheet 1 of 3, FDOT Index No. 102 and ditch installations at drainage structures Sheet 2 of 3, FDOT Index No. 102.

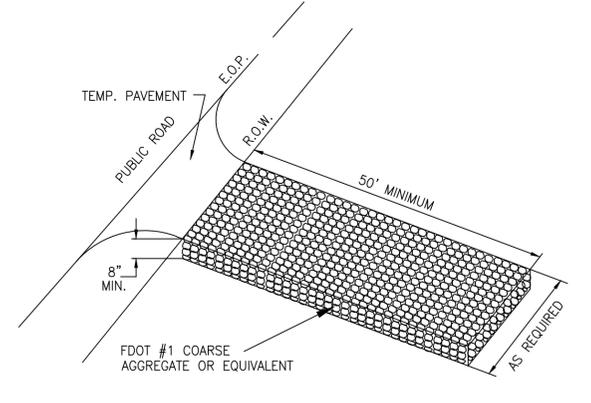
TURBIDITY BARRIERS

N.T.S.



BARRIER FOR UNPAVED DITCHES

HAY BALE BARRIERS TYPE I & II



STABILIZED CONSTRUCTION ENTRANCE

N.T.S.

NOTE:
WHERE FDOT SPECS AND INDEX ARE REFERENCED, PLEASE REFER TO THE FDOT ROADWAY & TRAFFIC DESIGN STANDARDS, AND FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION LATEST EDITION.

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE TYPE III & IV

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ESCAMBIA COUNTY
ENGINEERING DEPARTMENT



6706-C PLANTATION ROAD
PENSACOLA, FL 32504
SCALE: SEE PLAN PLOT SCALE: SEE PLAN DRAWN BY: RGJ CHECKED BY: LJC APPROVED BY: LJC TEL: (850) 202-3030

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

EROSION & SEDIMENT
CONTROL DETAILS

DATE: JUNE 2016 JOB NO.: 15-1101-0297 DRAWING NO.: 30 OF 31 REVISION NO.:

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM
STRUCTURAL CONTROLS

PROJECT: _____ DATE: _____

EARTH DIKES/SWALES

| DIKE OR SWALE | FROM | TO | IS DIKE/SWALE STABILIZED ? | IS THERE EVIDENCE OF WASHOUT OR OVERTOPPING |
|---------------|------|----|----------------------------|---|
| | | | | |
| | | | | |
| | | | | |

MAINTENANCE REQUIRED FOR EARTH DIKE/SWALE: _____
ON OR BEFORE: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

CATCH BASIN/CURB INLET/OUTFALL TURBIDITY CONTROLS

| STRUCTURE/ OUTFALL | ARE TURBIDITY CONTROLS IN PLACE | ANY EVIDENCE OF CLOGGING/WASHOUT OR BYPASSING ? | ARE TURBIDITY CONTROLS IN NEED OF REPLACING | DOES SILT NEED TO BE REMOVED FROM CONTROL |
|--------------------|---------------------------------|---|---|---|
| | | | | |
| | | | | |
| | | | | |

MAINTENANCE REQUIRED FOR CATCH BASIN/CURB INLETS/OUTFALLS TURBIDITY CONTROLS: _____
ON OR BEFORE: _____

PAGE 2 OF 4

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM

PROJECT: _____

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN: _____
REASONS FOR CHANGES: _____

MAINTENANCE REQUIRED FOR SEDIMENT BASIN: _____
ON OR BEFORE: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

OTHER CONTROLS
STABILIZED CONSTRUCTION ENTRANCE

| DOES MUCH SEDIMENT GET TRACKED ON TO ROAD ? | IS THE GRAVEL CLEAN OR IS IT FILLED WITH SEDIMENT? | DOES ALL TRAFFIC USE THE STABILIZED ENTRANCE TO LEAVE THE SITE ? | IS THE CULVERT BENEATH THE ENTRANCE WORKING? (IF APPLICABLE) |
|---|--|--|--|
| | | | |

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE: _____
ON OR BEFORE: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 4 OF 4

NOTE TO CONTRACTOR:

THIS IS THE CONTRACTORS CERTIFICATION REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION SITES OVER 5 ACRES. THIS CERTIFICATION MUST BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT OVER 0.50 INCHES. IT IS SUGGESTED THAT THIS SHEET BE REMOVED FROM THE PLAN SET AND DUPLICATED AS NEEDED BY THE CONTRACTOR.

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM
TO BE COMPLETED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.50 INCHES OR MORE

PROJECT: _____ DATE: _____

INSPECTOR: _____

INSPECTOR'S QUALIFICATIONS: _____

DAYS SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL: _____ INCHES

STABILIZATION MEASURES

| INSPECTION AREA (DESCRIPTION OF LOCATION) | DATE SINCE LAST DISTURBED | DATE OF NEXT DISTURBANCE | STABILIZED ? (YES/NO) | STABILIZED WITH | CONDITION |
|---|---------------------------|--------------------------|-----------------------|-----------------|-----------|
| | | | | | |
| | | | | | |
| | | | | | |

MAINTENANCE REQUIRED FOR SEDIMENT BASIN: _____
ON OR BEFORE: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 1 OF 4

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM
SEDIMENT BASIN

PROJECT: _____

| DEPTH OF SEDIMENT IN BASIN | DEPTH OF SEDIMENT SIDE BASIN | ANY EVIDENCE OF OVERTOPPING OF THE EMBANKMENT ? | CONDITION OF OUTFALL FROM SEDIMENT BASIN |
|----------------------------|------------------------------|---|--|
| | | | |

MAINTENANCE REQUIRED FOR SEDIMENT BASIN: _____
ON OR BEFORE: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

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RELEASED FOR RE-BID
NOT FOR CONSTRUCTION

| REVISION NO. | DESCRIPTION | DATE | BY: |
|--------------|-------------|------|-----|
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**ESCAMBIA COUNTY
ENGINEERING DEPARTMENT**

**thompson
ENGINEERING**

6706-C PLANTATION ROAD
PENSACOLA, FL 32504
TEL: (850) 202-3030

SCALE: SEE PLAN PLOT SCALE: SEE PLAN DRAWN BY: RGJ CHECKED BY: LJC APPROVED BY: LJC DATE: JUNE 2016 JOB NO.: 15-1101-0297 DRAWING NO.: 31 OF 31 REVISION NO.:

DESIGN SERVICES FOR MCNEAL ROAD
DIRT ROAD PAVING AND DRAINAGE IMPROVEMENTS

EROSION & SEDIMENT
CONTROL DETAILS