

BORROW SITE/WETLAND MITIGATION NOTES

1. HORIZONTAL AND VERTICAL CONTROL FOR THE PROPOSED WORK SHALL BE BASED ON SURVEY CONTROL POINT IDENTIFIED AS "MASTER BENCHMARK LEVELS NORTH". REFER TO THE HORIZONTAL AND VERTICAL CONTROL PLAN SHEET WM-3.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE MASTER BENCHMARK AND OTHER IDENTIFIED BENCHMARKS DURING CONSTRUCTION.
3. THE CONTRACTOR MAY ENCOUNTER GROUND WATER DURING EXCAVATION, DEWATERING OPERATIONS SHALL COMPLY WITH SPECIAL PROVISION 202572 - BORROW AREA EROSION AND SEDIMENT CONTROL AND DEWATERING.
4. INFORMATION ON THE ELEVATION OF GROUNDWATER AT THE 12 MONITORING WELLS SPREAD ACROSS THE LEVELS ROAD BORROW SOURCE/WETLAND MITIGATION SITE CAN BE FOUND IN THE REPORT: "US 301 LEVELS ROAD MITIGATION SITE GEOTECHNICAL DATA".
5. MONITORING WELLS SHALL BE ABANDONED BY A WELL DRILLER LICENSED IN DELAWARE IN ACCORDANCE WITH THE PROVISIONS IN ITEM 211521 - ABANDONMENT OF WELLS.
6. PHYSICAL REMOVAL AND DISPOSAL OF THE ABANDONED WELLS SHALL BE PAID FOR UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT.
7. THE CONTRACTOR SHALL STRIP THE TOP 9" OF AGRICULTURAL SOIL FROM THE AREA TO BE EXCAVATED AT THE LEVELS ROAD BORROW SOURCE AND PLACE THIS MATERIAL IN THE TOPSOIL STOCKPILE AREA DESIGNATED ON THE PLAN (WM-4 AND 7). STRIPPING THE AGRICULTURAL SOIL AND PLACING IN THE DESIGNATED STOCKPILE AREA SHALL BE PAID FOR UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT.
8. ONLY AGRICULTURAL SOILS SHALL BE CONSIDERED TOPSOIL AND PLACED IN THE TOPSOIL STOCKPILE. AGRICULTURAL SOIL IS DEFINED AS THE TOP 9" OF SOIL OBTAINED FROM AN ACTIVE FARM FIELD OR RECENTLY ABANDONED FARM FIELD (LESS THAN 2 YEARS FALLOW OR ABANDONED). THE SOURCE OF THE AGRICULTURAL SOIL MUST HAVE BEEN IN CROP.
9. THE STOCKPILED TOPSOIL SHALL BE QUARANTINED, STABILIZED WITH ITEM 734553 - WETLAND MITIGATION GRASS SEEDING, AND ONLY AVAILABLE FOR USE AT THE LEVELS ROAD MITIGATION SITE FOR PLACEMENT UNDER THE PROVISIONS OF ITEM 733008 - TOPSOILING, 18" DEPTH, ITEM 733002 - TOPSOILING, 6" DEPTH, ITEM 733001 - TOPSOILING, 4" DEPTH, AND ITEM 733007 - TOPSOILING, 2" DEPTH.
10. TOPSOIL TO BE PLACED UNDER ITEM 733008 - TOPSOILING, 18" DEPTH, ITEM 733001 - TOPSOILING, 4" DEPTH, AND ITEM 733007 - TOPSOILING, 2" DEPTH SHALL BE AMENDED WITH COMPOST PRIOR TO PLACEMENT. THE STOCKPILED TOPSOIL SHALL BE AMENDED WITH COMPOST AT THE RATE OF ONE (1) PART COMPOST TO NINETEEN (19) PARTS STOCKPILED TOPSOIL BY VOLUME. COMPOST AMENDMENT SHALL BE CONDUCTED AND PAID FOR UNDER ITEM 732505 - SOIL COMPOSTING.
11. THE ZONE 9 EARTHWORK SUMMARY INDICATES THE VOLUME OF TOPSOIL REQUIRED TO CONSTRUCT THE WETLAND MITIGATION SITE AND COMPOST IS NOT INCLUDED ON THE EARTHWORK SUMMARY.
12. THERE IS AN INSUFFICIENT VOLUME OF TOPSOIL STRIPPED FROM THE EXCAVATION AREA TO MEET THE APPLICATION REQUIREMENTS AT THE LEVELS ROAD MITIGATION SITE. THE CONTRACTOR SHALL BRING IN ADDITIONAL SALVAGED AGRICULTURAL SOILS. THESE IMPORTED MATERIALS SHALL MEET THE DEFINITION OF AGRICULTURAL SOILS PROVIDED ABOVE. THE STRIPPING AND TRANSPORT OF ADDITIONAL AGRICULTURAL SOILS TO THE STOCKPILE SHALL BE PAID FOR UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT.
13. TO SATISFY THE MITIGATION REQUIREMENTS OF THE US 301 PROJECT, THE CONTRACTOR SHALL EXCAVATE THE SITE TO MEET THE ELEVATION 32 WETLAND FINISHED GRADING EXTENT AS INDICATED ON THE CONSTRUCTION PLANS.
14. INFORMATION ON THE BORROW MATERIAL TO BE EXCAVATED CAN BE FOUND IN THE REPORT: "US 301 LEVELS ROAD MITIGATION SITE GEOTECHNICAL DATA".
15. SHOULD LESS BORROW MATERIAL BE REQUIRED, THE CONTRACTOR MAY INCREASE A PORTION OR ALL OF THE BORROW SITE SIDE SLOPE FROM 5:1 TO A MAXIMUM OF 4:1. IF THE SLOPE IS INCREASED FOR ONLY A PORTION OF THE BORROW SITE, MAXIMUM 4:1 SLOPES SHALL BE USED TO THE EXTENT REQUIRED FROM BETWEEN STAKE OUT POINT 253 TO 261 FIRST, FROM BETWEEN STAKE OUT POINT 262 TO 264 SECOND, FROM BETWEEN STAKE OUT POINT 247 TO 253 THIRD, AND FROM BETWEEN STAKE OUT POINT 261 TO 262 FOURTH AND THE TRANSITION FROM A 5:1 SIDE SLOPE TO ANY STEEPER (4:1 MAX) SIDE SLOPE SHALL BE A MINIMUM OF 50 FEET WIDE. UPON COMPLETION OF BORROW ACTIVITIES ALL SIDE SLOPES SHALL HAVE SMOOTH LINES AND GRADES. REPRESENTING A NATURALIZED CONDITION AND SHALL NOT APPEAR DISTURBED, OR ARTIFICIAL, AS SOLELY DETERMINED BY THE ENGINEER.

THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO MONITOR THE AMOUNT OF EARTHWORK REQUIRED FROM THE BORROW SITE TO MEET THE PROJECT REQUIREMENTS. THE STOCKPILE LOCATION IS ONLY TO BE USED FOR MATERIALS THAT ARE EXCAVATED TO ACHIEVE THE MINIMUM REQUIREMENTS OF THE MITIGATION SITE THAT ARE IN EXCESS OF THE REQUIREMENTS FOR THE ROAD CONSTRUCTION. SIDE SLOPES AT 5:1 SHALL BE PROVIDED AROUND THE ENTIRE SITE EXCEPT THAT INITIAL EXCAVATION OF THE SIDE SLOPES SHALL BE PERFORMED TO 4:1 BETWEEN THE FOLLOWING STAKEOUT POINTS AND THE SLOPES WITHIN THESE LIMITS SHALL ONLY BE EXCAVATED TO BETWEEN 4:1 AND 5:1 WHEN APPROVED BY THE ENGINEER. THE INITIAL 4:1 SIDE SLOPES SHALL BE EXCAVATED TO A SLOPE BETWEEN 4:1 AND 5:1 TO THE EXTENT APPROVED BETWEEN STAKE OUT POINT 261 TO 262 FIRST, BETWEEN STAKE OUT POINT 247 TO 253 SECOND, BETWEEN STAKE OUT POINT 262 TO 264 THIRD, AND BETWEEN STAKE OUT POINT 253 TO 261 FOURTH. TRANSITIONS BETWEEN 5:1 SLOPES AND ANY STEEPER SLOPE SHALL BE A MINIMUM OF 50 FEET WIDE. UPON COMPLETION OF BORROW ACTIVITIES ALL SIDE SLOPES SHALL HAVE SMOOTH LINES AND GRADES REPRESENTING A NATURALIZED CONDITION AND SHALL NOT APPEAR DISTURBED, OR ARTIFICIAL, AS SOLELY DETERMINED BY THE ENGINEER.
16. SHOULD ADDITIONAL BORROW MATERIAL BE REQUIRED, THE CONTRACTOR MAY EXCAVATE TO THE WEST, TOWARDS THE AREA OF THE DESIGNATED TOPSOIL STOCKPILE, WITHIN THE EXISTING LOC. THIS AREA SHALL NOT BE EXCAVATED BELOW ELEVATION 35.0 FEET, AND ALL SURROUNDING SLOPES SHALL BE NO STEEPER THAN 5:1. UPON THE COMPLETION OF BORROW ACTIVITIES, THE AREA OF EXPANDED EXCAVATION SHALL BE GRADED WITH CONTINUOUS SMOOTH LINES AND GRADES REPRESENTING A NATURALIZED CONDITION AND SHALL NOT APPEAR DISTURBED, MOUND OR PILED, AS SOLELY DETERMINED BY THE ENGINEER. THE EXPANDED EXCAVATION SHALL BE COVERED WITH 6" OF TOPSOIL IN ACCORDANCE WITH ITEM 733002 - TOPSOILING, 6" DEPTH AND SEEDED WITH ITEM 734551 - NATIVE GRASS SEEDING; NO MOW MIX THE CONTRACTOR SHALL SUBMIT A REVISED GRADING PLAN TO THE ENGINEER FOR APPROVAL.
17. EXCEPT FOR THE DESIGNED DITCHES AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, THE SUBGRADE OF THE BOTTOM OF THE SITE SHALL NOT BE EXCAVATED BELOW ELEVATION 30.5. THE SLOPES SHALL NOT BE OVEREXCAVATED BEYOND THE FINAL SIDESLOPE GRADES EXCEPT FOR THAT NEEDED TO PLACE THE DESIGNED TOPSOIL DEPTH.
18. TRASH, CONSTRUCTION DEBRIS, ROOT MAT, PILE CUTOFFS, ASPHALT MILLINGS AND OTHER CONSTRUCTION WASTE GENERATED ON THE CONTRACT SHALL NOT BE BURIED IN THE BORROW SITE OR THE SIDE SLOPES OF THE BORROW SITE. TOPSOIL, AND AGRICULTURAL SOILS SHALL NOT BE BURIED IN THE BORROW SITE OR THE SIDE SLOPES OF THE BORROW SITE.
19. UNSUITABLE MATERIALS GENERATED FROM WITHIN THE BORROW SITE SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED LOCATION OUTSIDE THE BORROW SITE.
20. THE CONTRACTOR SHALL ENSURE THAT A MINIMUM 6" DEPTH OF AGRICULTURAL SOILS REMAINS IN THE TOPSOIL STOCKPILE AREA AT THE CONCLUSION OF TOPSOILING.
21. ITEM 737503 - BEDDING FOR REFORESTATION, SHALL BE INITIATED WITHIN 3 CALENDAR DAYS OF THE COMPLETION OF SEEDING WITH ITEM 734553 - WETLAND MITIGATION GRASS SEEDING. BEDDING OF THE SITE SHALL BE COMPLETED WITHIN 30 CALENDAR DAYS.
22. THE CONTRACTOR WILL NEED TEMPORARY STRUCTURES TO CROSS THE WETLAND DITCHES WITH EQUIPMENT. THE SIZE AND TYPE OF THESE CROSSING STRUCTURES SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. THESE CROSSING STRUCTURES SHALL BE REMOVED IN THEIR ENTIRETY AT THE CONCLUSION OF WORK AND ALL DISTURBED AREAS RESTORED AND STABILIZED. THE COST OF THESE TEMPORARY CROSSINGS, RESTORATION AND STABILIZATION SHALL BE INCLUDED IN THE COST OF ITEM 737503 - BEDDING FOR REFORESTATION.
23. NO SOIL STOCKPILES SHALL REMAIN IN THE LEVELS ROAD MITIGATION SITE, INCLUDING IN THE TOPSOIL STOCKPILE AREA AT THE CONCLUSION OF THE MITIGATION SITE CONSTRUCTION. IN PARTICULAR, THE TOPSOIL STOCKPILE AREA SHALL BE RETURNED TO ORIGINAL GRADES FOLLOWING TOPSOILING OPERATIONS AND ANY EXCESS SOIL SHALL BE HAULED OFF SITE AND PROPERLY DISPOSED OF.

BORROW SITE/WETLAND MITIGATION NOTES CONT.

24. UNDER NO CONDITION SHALL TEMPORARY SEEDING DRY GROUND OR TEMPORARY SEEDING WET GROUND BE PLACED ON EXCAVATED OR EXISTING GROUND BELOW ELEVATION 35.
25. SEDIMENT REMOVED FROM SEDIMENT CONTROL DEVICES SHALL BE REMOVED FROM THE MITIGATION SITE AND PROPERLY DISPOSED OF.
26. THE CONTRACTOR SHALL COORDINATE WITH DELDOT TO HAVE AS-BUILT TOPOGRAPHIC SURVEYS OF THE COMPLETED WETLAND MITIGATION SITE PERFORMED BY DELDOT OR THEIR DESIGNATED REPRESENTATIVE. THE LIMITS OF THE AS-BUILT TOPOGRAPHIC SURVEY SHALL INCLUDE ALL DISTURBED AREAS AND DETAILED AS-BUILT INFORMATION OF OUTLET STRUCTURES OR OTHER DEVICES WITHIN THE LIMITS OF THE DISTURBED AREA. THE AS-BUILT PLAN SHALL BE INTENDED TO SHOW THE ACTUAL FINISHED GROUND CONTOURS AS THEY EXIST AT THE TIME OF FINAL EXCAVATION TO SUBGRADE PRIOR TO PLACING TOPSOIL, FINAL GRADING AFTER TOPSOIL HAS BEEN PLACED AND DETAILS OF ALL OUTLET DEVICES AND OTHER STRUCTURES ASSOCIATED WITH THE WETLAND MITIGATION SITE. THE TOLERANCE FOR FINAL EXCAVATED SUBGRADES AND FINAL WETLAND MITIGATION CONTOURS SHALL BE PLUS OR MINUS ONE-TENTH (0.1) OF A FOOT. IF ANY CHANGES OCCUR TO THE AS-BUILT CONDITIONS BEFORE SUBSEQUENT PHASES OF WORK ARE PERFORMED, THE CONTRACTOR SHALL CORRECT THE CHANGED CONDITIONS AND THE AS-BUILT PLAN PROCESS FOR THE AREA WHERE THE CHANGED CONDITIONS OCCURRED SHALL BE RE-ESTABLISHED.

THE AS-BUILT SURVEYS AND AS-BUILT PLANS SHALL BE DEVELOPED IN THE FOLLOWING MANNER:

- a. DELDOT AND THE CONTRACTOR SHALL AGREE ON ORIGINAL GROUND ELEVATIONS PRIOR TO ANY WORK BEING PERFORMED THAT WOULD ALTER ORIGINAL GROUND CONDITIONS.
 - b. DELDOT AND THE CONTRACTOR SHALL CONFIRM THE MASTER SURVEY CONTROL POINT/BENCHMARK THAT WILL BE USED FOR THE DURATION OF THE PROJECT.
 - c. AS THE CONTRACTOR PERFORMS WORK TOWARDS AN AS-BUILT MILESTONE AS IDENTIFIED IN THE PLANS, THE CONTRACTOR SHALL PROVIDE DELDOT A MINIMUM 5 CALENDAR DAY ADVANCE NOTICE THAT THE FINAL CONDITIONS ARE READY FOR THE AS-BUILT TOPOGRAPHIC SURVEY TO BE PERFORMED.
 - d. DELDOT OR THEIR DESIGNATED REPRESENTATIVE WILL THEN PERFORM SURVEY ON THE FINAL CONDITIONS AND PREPARE AN AS-BUILT PLAN. THE AS-BUILT SURVEY WILL BE OBTAINED AT AN ESTIMATED RATE OF 5 ACRES OF CONTIGUOUS AREA PER WORKING DAY. DELDOT WILL THEN PREPARE AN AS-BUILT PLAN BASED ON THE SURVEY INFORMATION. THE AS-BUILT SURVEY AND PLAN WILL GENERALLY CONFORM WITH THE FOLLOWING PARAMETERS:
 - i. SPOT ELEVATIONS INTERVALS AND MAXIMUM DISTANCES BETWEEN SPOT ELEVATIONS SHALL BE TWENTY (20) FEET WITHIN THE WETLAND MITIGATION FLOOR AND ON THE UPLAND SIDE SLOPES EXTENDING A MINIMUM OF SIXTY (60) FEET UPSLOPE BEYOND THE WETLAND MITIGATION FLOOR. SPOT ELEVATION INTERVALS AND MAXIMUM DISTANCES BETWEEN SPOT ELEVATIONS SHALL BE FIFTY (50) FEET FOR ALL OTHER AREAS. ADDITIONAL SPOT ELEVATIONS SHALL BE OBTAINED AS REQUIRED TO IDENTIFY ALL BREAKS IN GRADE, DITCHES, AND OTHER FEATURES OF THE WETLAND MITIGATION SITE, INCLUDING DITCHES, OUTLET STRUCTURES, BERMS, ETC.
 - ii. SPOT ELEVATIONS SHALL BE OBTAINED AND SHOWN ON THE AS-BUILT PLAN TO ONE-HUNDRETH (0.01) OF A FOOT. THE AS-BUILT PLAN SHALL BE PREPARED CONFORMING TO DELDOT CADD STANDARDS. THESE DRAWINGS SHALL BE AT THE SAME SCALE AS THE CONTRACT PLAN SHEETS. CONTOURS SHALL BE SHOWN AT HALF (0.5) FOOT INTERVALS WITHIN THE WETLAND MITIGATION FLOOR AND AT ONE (1) FOOT INTERVALS FOR AREAS OUTSIDE OF THE WETLAND FLOOR.
 - e. DELDOT WILL PROVIDE THE AS-BUILT PLAN TO THE CONTRACTOR WITHIN SEVEN (7) CALENDAR DAYS OF THE FINAL AS-BUILT SURVEY INFORMATION BEING OBTAINED. THE AS-BUILT PLAN WILL IDENTIFY AREAS WHERE THE AS-BUILT CONDITIONS DO NOT CONFORM TO THE LINES AND GRADES PROVIDED IN THE CONTRACT PLANS. BOTH DIGITAL AND PAPER FORMATS OF THE AS-BUILT PLAN WILL BE PROVIDED.
 - f. THE CONTRACTOR SHALL INFORM DELDOT WITHIN SEVEN (7) CALENDAR DAYS IF THEY AGREE WITH THE AS-BUILT PLAN PROVIDED BY DELDOT. IF THE CONTRACTOR DOES NOT AGREE WITH THE AS-BUILT PLAN PROVIDED BY DELDOT, THE CONTRACTOR SHALL AT THAT TIME PROVIDE AN AS-BUILT PLAN THAT HAS BEEN SIGNED AND SEALED BY A PROFESSIONAL SURVEYOR OR PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF DELAWARE. THE AS-BUILT PLAN SHALL CONFORM TO THE REQUIREMENTS DESCRIBED ABOVE AND SHALL NOTE AREAS WHERE THE CONTRACTOR DOES NOT AGREE WITH THE DELDOT AS-BUILT PLAN AND AREAS WHERE THE AS-BUILT CONDITIONS DO NOT CONFORM TO THE LINES AND GRADES PROVIDED IN THE CONTRACT PLANS. DELDOT SHALL THEN INFORM THE CONTRACTOR WITHIN SEVEN (7) CALENDAR DAYS IF THEY AGREE WITH THE CONTRACTOR'S AS-BUILT INFORMATION OR PROVIDE THE CONTRACTOR WITH ANOTHER AS-BUILT PLAN. THE CONTRACTOR WILL THEN HAVE ANOTHER SEVEN (7) CALENDAR DAYS TO INFORM DELDOT IF THEY AGREE WITH THE CURRENT INFORMATION AND, IF NOT, THE ABOVE PROCESS WILL CONTINUE UNTIL DELDOT AND THE CONTRACTOR AGREE ON THE AS-BUILT CONDITIONS.
 - g. THE CONTRACTOR SHALL CORRECT ANY DEFECTIVE AREAS AT THE CONTRACTOR'S EXPENSE. THERE SHALL BE NO ADDITIONAL PAYMENT FOR GRADING, SEEDING, MULCHING, EROSION AND SEDIMENT CONTROL MEASURES OR ANY OTHER WORK REQUIRED FOR THE CORRECTIONS.
 - h. THE CONTRACTOR SHALL AGAIN PROVIDE DELDOT THE ADVANCE NOTICE OF THE WORK BEING COMPLETED AND DELDOT SHALL OBTAIN AS-BUILT SURVEY DATA FOR THE CORRECTED WORK AND ANY OTHER AREAS THAT MAY HAVE BEEN DISTURBED WHILE PERFORMING THE CORRECTIVE WORK AS NOTED ABOVE.
 - i. DELDOT WILL PROVIDE THE AS-BUILT PLAN REFLECTING THE CORRECTIVE WORK TO THE CONTRACTOR WITHIN SEVEN (7) CALENDAR DAYS OF THE FINAL AS-BUILT SURVEY INFORMATION BEING OBTAINED. BOTH DIGITAL AND PAPER FORMATS OF THE AS-BUILT PLAN WILL BE PROVIDED.
 - j. IF AREAS NOT CONFORMING TO THE CONTRACT PLANS ARE AGAIN NOTED, THE CONTRACTOR SHALL CORRECT ANY DEFECTIVE AREAS AND THE ABOVE PROCESS SHALL CONTINUE UNTIL APPROVED AS-BUILT CONDITIONS ARE OBTAINED.
27. AS-BUILT TOPOGRAPHIC SURVEY PLANS SHALL BE OBTAINED FOR THE FOLLOWING MILESTONES. AS-BUILT PLANS SHALL BE APPROVED FOR EACH MILESTONE IN THE ORDER PRESENTED BELOW. AS-BUILT SURVEY WILL NOT BE PERFORMED FOR A MILESTONE UNTIL THE AS-BUILT PLAN FOR THE PREVIOUS MILESTONE IS APPROVED.
 - a. MILESTONE 1: OUTLET AREA INCLUDING INLET PONDS, AND BEAVER DAM BYPASS DEVICES, OUTLETS, MANHOLES, AND ENERGY DISSIPATERS.
 - b. MILESTONE 2: THE FINAL EXCAVATED SUBGRADE ELEVATIONS. THE CONTRACTOR MAY REQUEST THAT THE AS-BUILT PLAN PROCESS FOR MILESTONE 2 BE PERFORMED FOR INCREMENTAL SECTIONS IN MINIMUM 10 ACRE SECTIONS. THE FIRST SECTION THAT MUST BE OBTAINED AND APPROVED PRIOR TO SUBMITTING SUBSEQUENT SECTIONS SHALL INCLUDE AN AREA THAT IS EQUALLY SURROUNDING THE AREA OF THE OUTFALL AND OUTFALL DEVICES. THE AS-BUILT PLANS FOR THIS FIRST AREA SHALL BE APPROVED BEFORE AS-BUILT SURVEY DATA WOULD BE OBTAINED IN SUBSEQUENT INCREMENTAL SECTIONS. THE NEXT INCREMENTAL SECTION SHALL BE CONTIGUOUS TO THE FIRST SECTION AND THE AS-BUILT PLAN ALSO APPROVED PRIOR TO SUBMISSION OF THE NEXT SECTION. SUBSEQUENT SECTIONS SHALL BE CONTIGUOUS TO THE PREVIOUSLY APPROVED SECTIONS AND SUBJECT TO THE SAME APPROVAL PROCESS. THE AS-BUILT PLAN FOR THE ENTIRE SITE SHALL BE APPROVED PRIOR TO CONDUCTING SUBSOIL TILLAGE OPERATIONS ITEM 202555 AND PLACING ANY MATERIALS TOPSOIL ON THE SUBGRADE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - c. MILESTONE 3: THE FINAL ELEVATIONS AFTER PLACEMENT OF THE TOPSOIL AND EXCAVATION OF THE LOW FLOW OUTLET CHANNELS INCLUDING CONFIRMATION OF THE DATA FOR THE MASTER SURVEY CONTROL POINT/BENCHMARK. THE AS-BUILT PLAN FOR THE ENTIRE SITE SHALL BE APPROVED PRIOR TO PERFORMING BED HARROWING WORK UNDER ITEM 737503 - BEDDING FOR REFORESTATION UNLESS OTHERWISE APPROVED BY THE ENGINEER.

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ADDENDUMS / REVISIONS	

NOT TO SCALE

**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

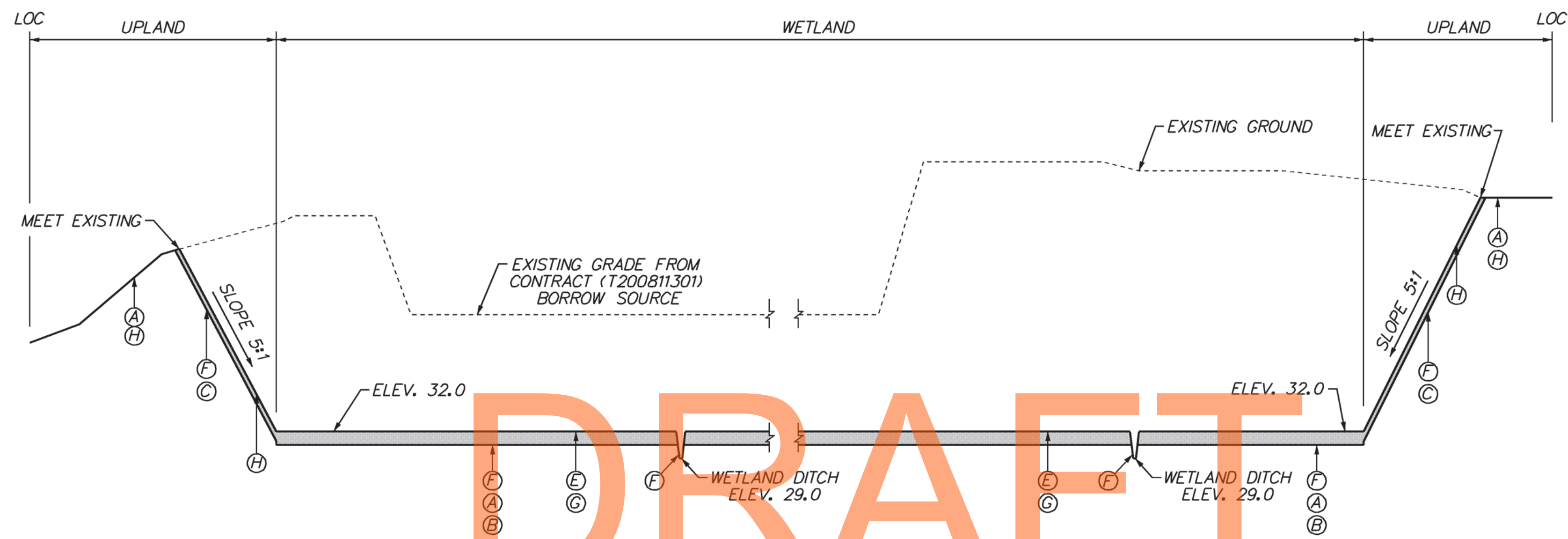
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS CHECKED BY: JTR

NOTES

**BORROW SITE /
WETLAND MITIGATION
PLAN**

WM-1
SHEET NO. 802
TOTAL SHTS. 1256

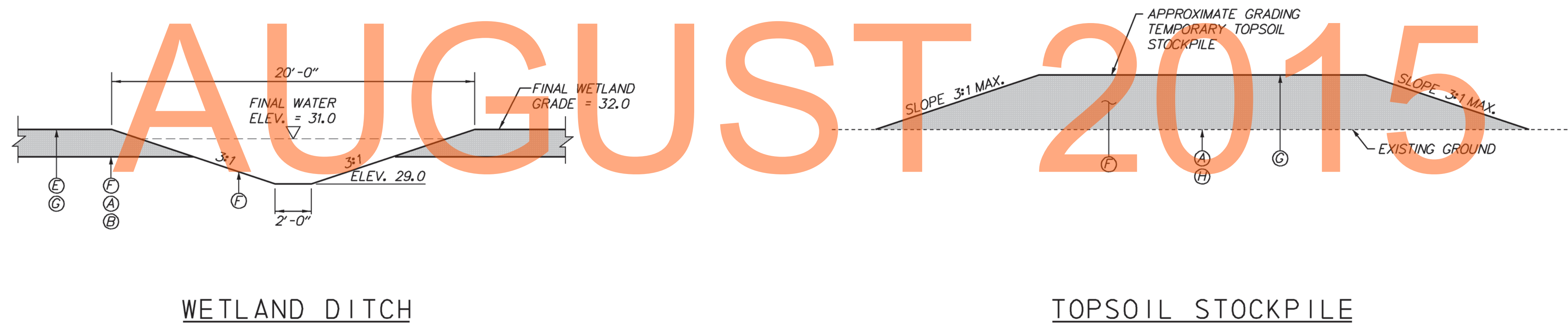
LEGEND	
(A)	ITEM 202555 SUBSOIL TILLAGE
(B)	ITEM 733008 TOPSOILING, 18" DEPTH
(C)	ITEM 733002 TOPSOILING, 6" DEPTH
(E)	ITEM 737503 BEDDING FOR REFORESTATION
(F)	ITEM 202000 EXCAVATION AND EMBANKMENT
(G)	ITEM 734553 WETLAND MITIGATION GRASS SEEDING
(H)	ITEM 734551 NATIVE GRASS SEEDING: NO MOW MIX
(I)	ITEM 735537 SOIL RETENTION BLANKET MULCH, TYPE 7
(J)	ITEM 735536 SOIL RETENTION BLANKET MULCH, TYPE 6
(K)	ITEM 713003 GEOTEXTILE, RIPRAP
(L)	ITEM 712006 RIPRAP, R-5
(M)	ITEM 763654 BEAVER DAM BYPASS DEVICE
(N)	ITEM 733007 TOPSOILING, 2" DEPTH
(O)	ITEM 302012 DELAWARE #57 STONE
(P)	ITEM 733001 TOPSOILING, 4" DEPTH



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WETLAND MITIGATION

NOT FOR BIDDING



WETLAND DITCH

TOPSOIL STOCKPILE

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ADDENDUMS / REVISIONS

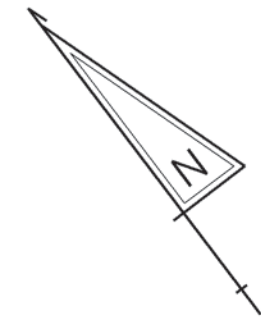
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US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

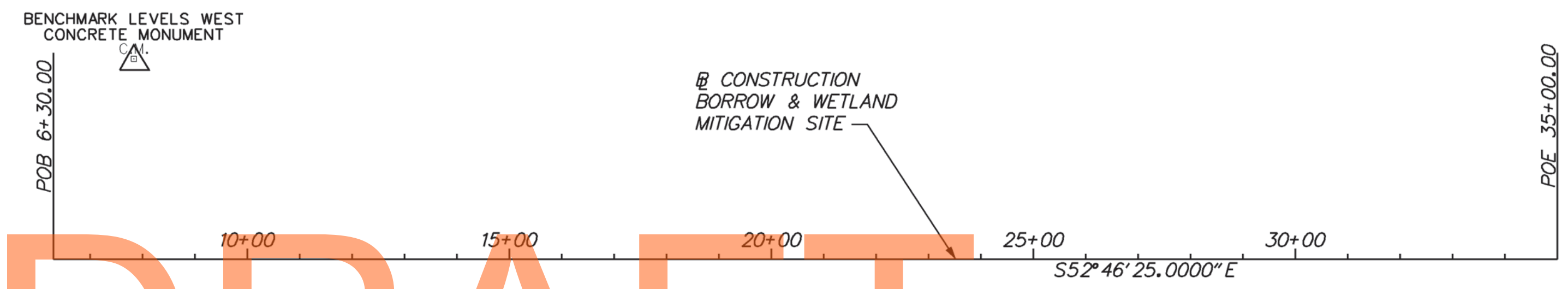
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

TYPICAL SECTIONS
BORROW SITE / WETLAND MITIGATION PLAN

WM-2
SHEET NO. 803
TOTAL SHTS. 1256



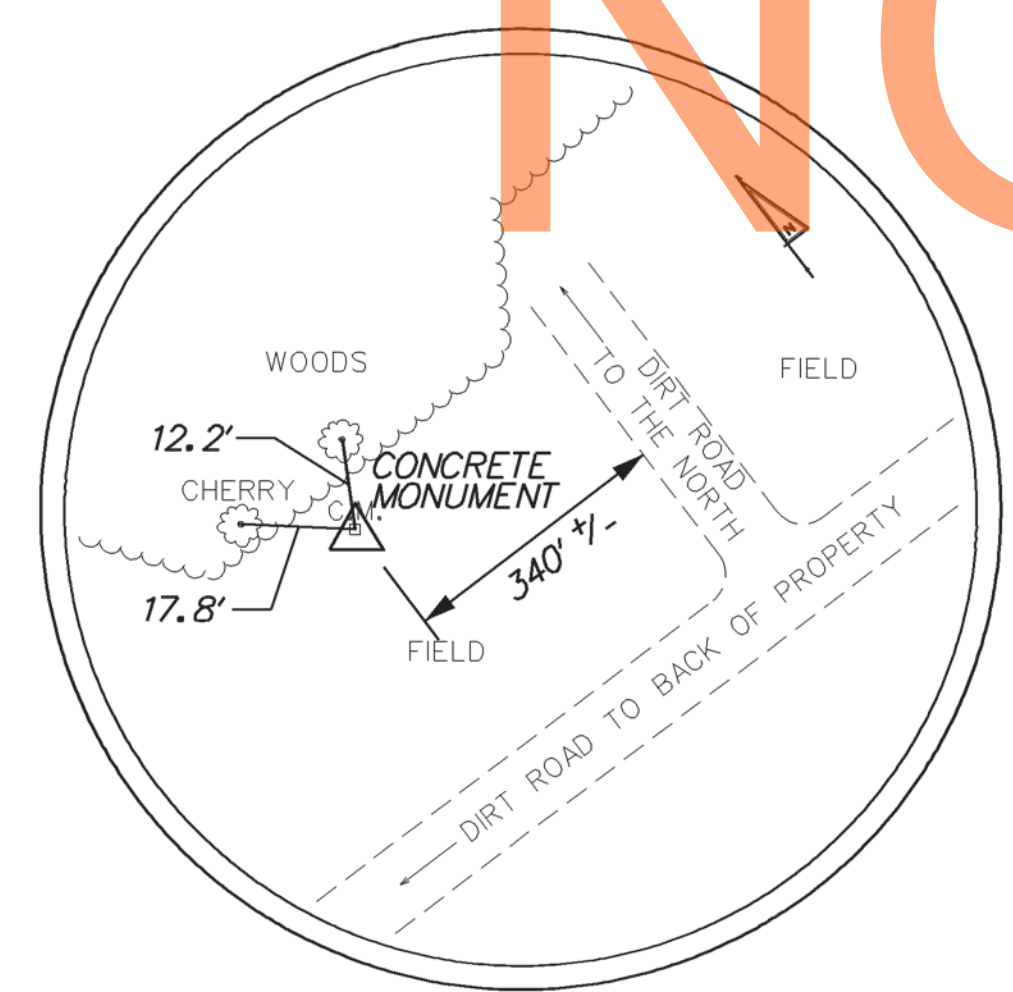
MASTER BENCHMARK LEVELS NORTH
CONCRETE MONUMENT



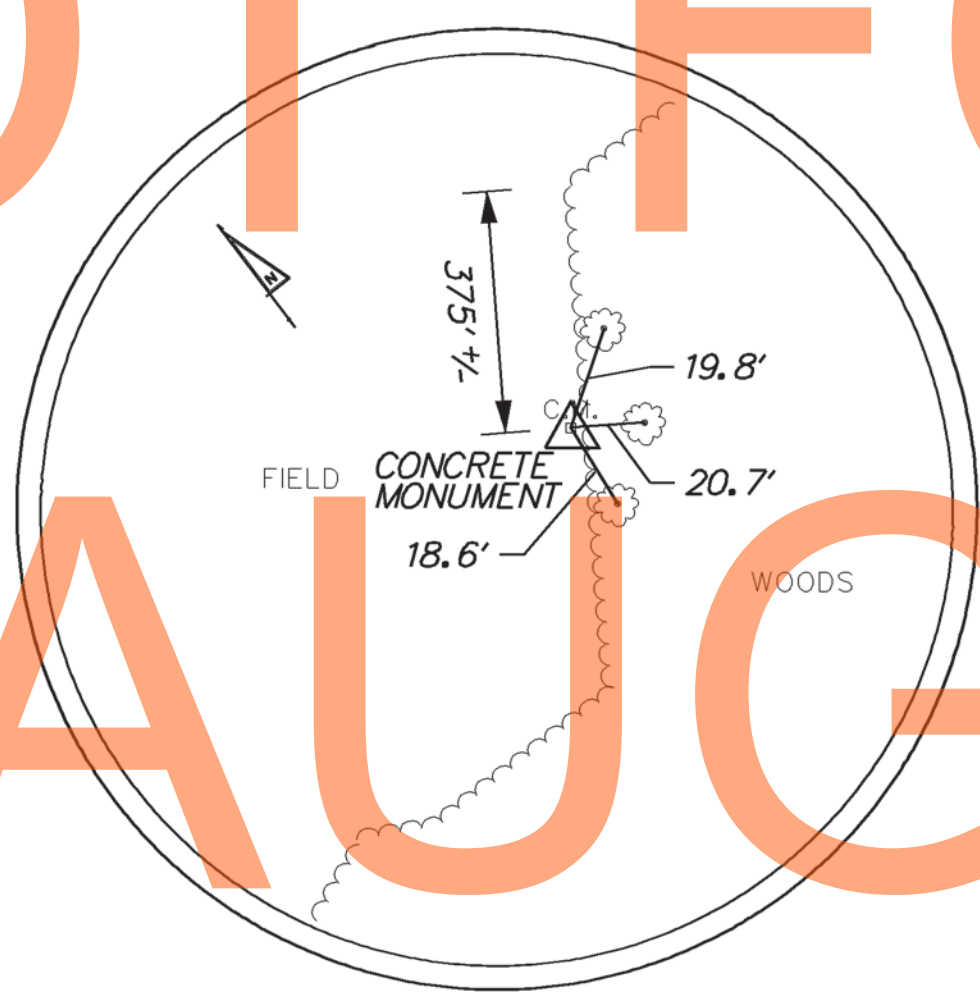
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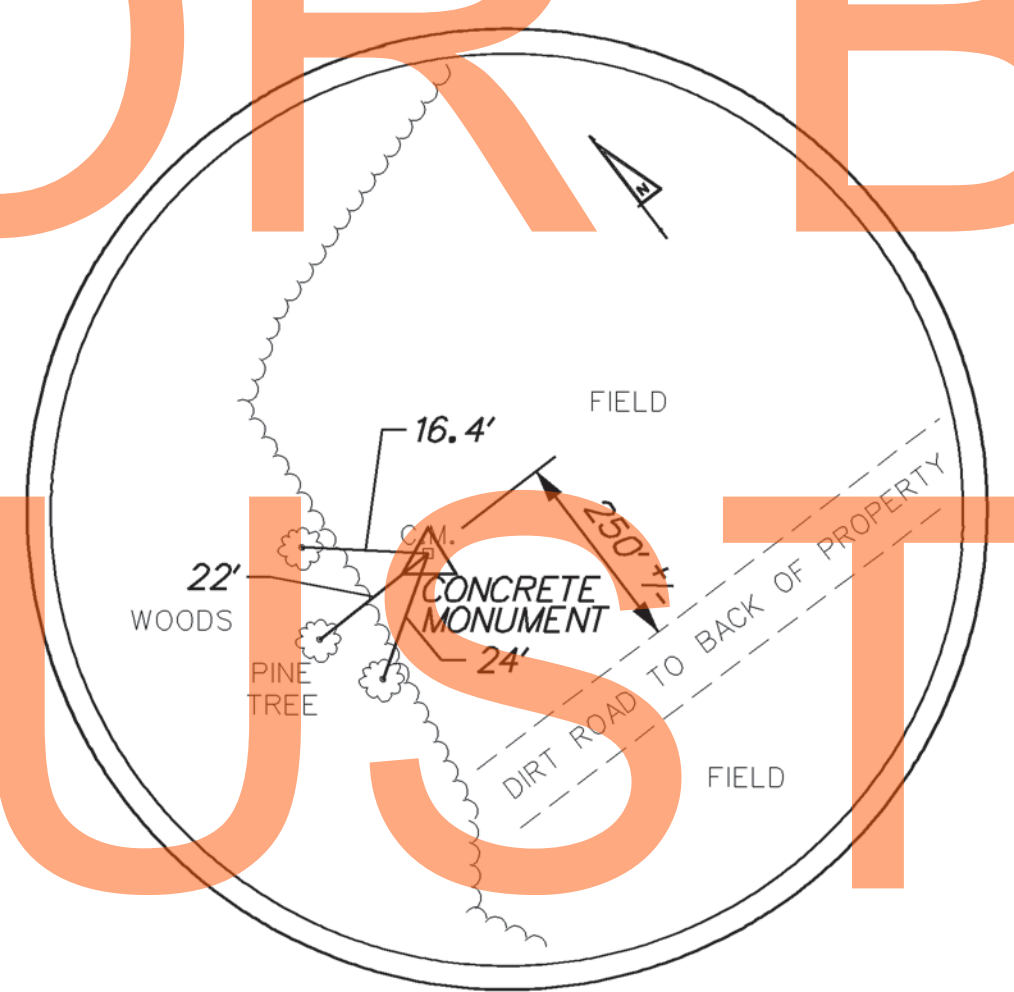
AUGUST 2015



MASTER BENCH MARK LEVELS NORTH
(CONCRETE MONUMENT)
N: 527,947.7452
E: 561,047.6768
ELEV: 57.68'



BENCH MARK LEVELS SOUTH
(CONCRETE MONUMENT)
N: 526,500.0072
E: 559,754.3716
ELEV: 51.16'



BENCH MARK LEVELS WEST
(CONCRETE MONUMENT)
N: 528,709.3594
E: 559,137.6626
ELEV: 60.00'

- NOTE:
- ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD 88)
HORIZONTAL DATUM: NORTH AMERICAN DATUM, 1983 (2007)
 - THE MASTER BENCH MARK ON THIS PLAN SHALL BE UTILIZED TO DETERMINE ALL GRADING FOR THE MITIGATION SITE AND ALL WORK UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT TO OCCUR AT THE LEVELS ROAD BORROW AND MITIGATION SITE.

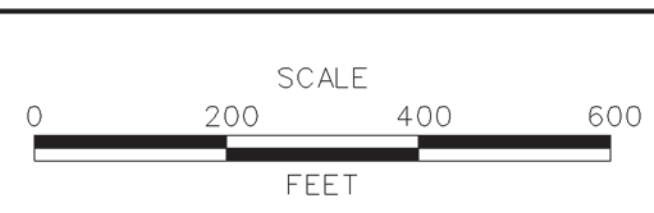
HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
NORTH	27+64.97	931.61'	527947.7452	561047.6768	57.68'
SOUTH	26+11.01	1003.56'	526500.0072	559754.3716	51.16'
WEST	7+83.37	382.55'	528709.3594	559137.6626	60.00'

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
POB	6+30.00	0.00	528497.5398	558784.1116
POE	35+00.00	0.00	526761.2876	561069.3530

HORIZONTAL AND VERTICAL CONTROLS



ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

**BORROW SITE /
WETLAND MITIGATION
PLANS**

WM-3
SHEET NO. 804
TOTAL SHTS. 1256

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142
 APOQUINIMINK SCHOOL DISTRICT
 T.M.#23-048.00-035
 INS.#20050617-0058778

156
 PAUL F. AND CHRISTINE A. MULVENA, H/W
 T.M.#13-021.00-035
 D.R.1072-0241

137
 POOLE VENTURES, LLC
 T.M.#23-065.00-005
 INS.#20050331-0030404

DRAFT
NOT FOR BIDDING
AUGUST 2015

MONITORING WELL (DND)

WITHIN THE LIMITS INDICATED
 EROSION AND SEDIMENT CONTROL
 SHALL BE PER ITEM 202572 -
 BORROW AREA EROSION AND SEDIMENT
 CONTROL AND DEWATERING

LIMITS OF PROPOSED
 CONTRACT T200911303
 WETLAND MITIGATION
 GRADING

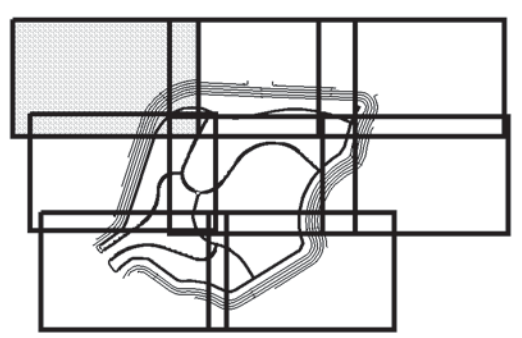
MONITORING WELL (DND)

TOPSOIL STOCKPILE

TRUCK ACCESS AREA

MATCHLINE - SEE SHEET WM-7

MATCHLINE - SEE SHEET WM-5



KEY MAP

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ADDENDUMS / REVISIONS	



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

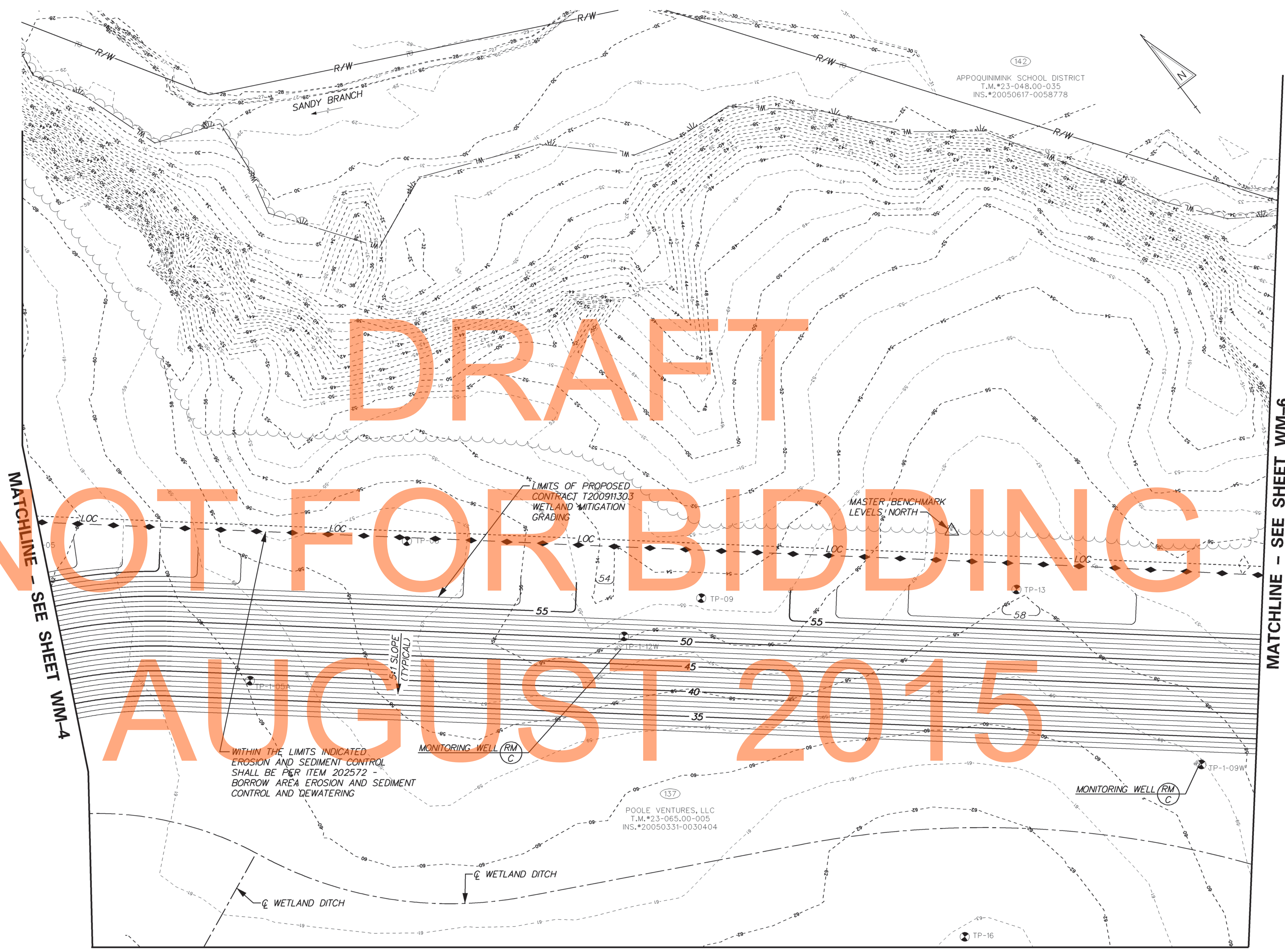
GRADING PLAN
**BORROW SITE /
 WETLAND MITIGATION
 PLAN**

WM-4
SHEET NO. 805
TOTAL SHTS. 1256

DRAFT

NOT FOR BIDDING

AUGUST 2015



142
 APPOQUINIMINK SCHOOL DISTRICT
 T.M.#23-048.00-035
 INS.#20050617-0058778

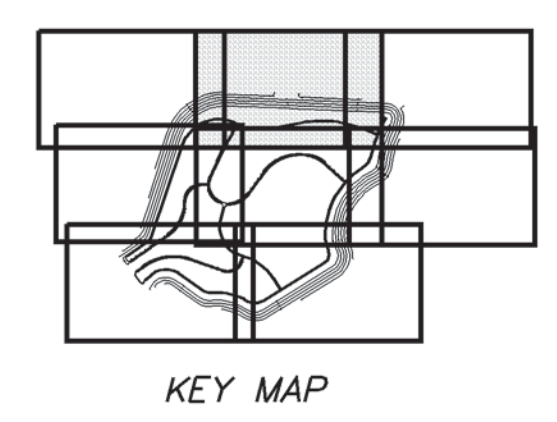
MATCHLINE - SEE SHEET WM-4

MATCHLINE - SEE SHEET WM-6

MATCHLINE - SEE SHEET WM-8

WITHIN THE LIMITS INDICATED
 EROSION AND SEDIMENT CONTROL
 SHALL BE PER ITEM 202572
 BORROW AREA EROSION AND SEDIMENT
 CONTROL AND DEWATERING

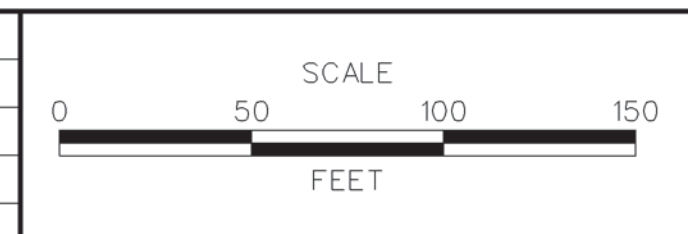
137
 POOLE VENTURES, LLC
 T.M.#23-065.00-005
 INS.#20050331-0030404



7/24/2012 10:12:00 AM \\RRKMA\2008\2008\08013_DE301\CADD\2911303\PLANS\CP02_301DS2_000_RKK.DGN

DELAWARE
 DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

GRADING PLAN

**BORROW SITE /
 WETLAND MITIGATION
 PLAN**

WM-5
SHEET NO. 806
TOTAL SHTS. 1256

142
 APPOQUINIMINK SCHOOL DISTRICT
 T.M.#23-048,00-035
 INS.#20050617-0058778

137
 POOLE VENTURES, LLC
 T.M.#23-065,00-905
 INS.#20050331-0030404

LIMITS OF PROPOSED
 CONTRACT T200911303
 WETLAND MITIGATION
 GRADING

WITHIN THE LIMITS INDICATED
 EROSION AND SEDIMENT CONTROL
 SHALL BE PER ITEM 202572 -
 BORROW AREA EROSION AND SEDIMENT
 CONTROL AND DEWATERING

MATCHLINE - SEE SHEET WM-5

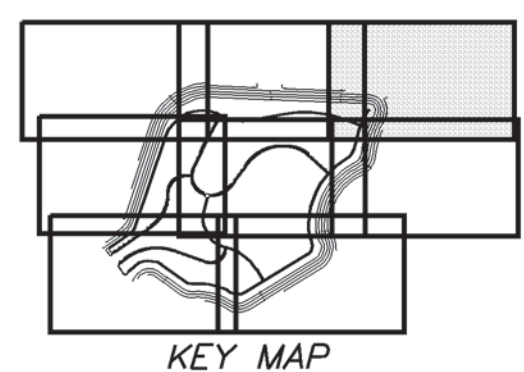
MATCHLINE - SEE SHEET CP-5

MATCHLINE - SEE SHEET CP-5

MATCHLINE
 SEE SHEET CP-4

MATCHLINE -
 SEE SHEET WM-9

NOT FOR BIDDING
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AUGUST 2015



7/24/2012 10:12:04 AM
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DELAWARE
 DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



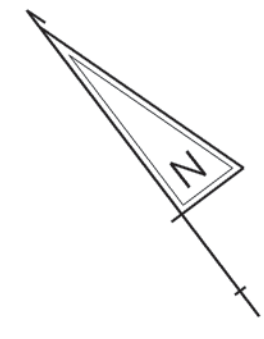
US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	DESIGNED BY: MRS
COUNTY	CHECKED BY: JTR
NEW CASTLE	

GRADING PLAN
BORROW SITE /
WETLAND MITIGATION
PLAN

WM-6
SHEET NO.
807
TOTAL SHTS.
1256

MATCHLINE - SEE SHEET WM-4



137
POOLE VENTURES, LLC
T.M.#23-065.00-005
INS.#20050331-0030404

TP-1-16A
LIMITS OF PROPOSED
CONTRACT T200911303
WETLAND MITIGATION
GRADING

RM MONITORING WELL
C

BENCH MARK
LEVELS WEST

TOPSOIL STOCKPILE

WITHIN THE LIMITS INDICATED
EROSION AND SEDIMENT CONTROL
SHALL BE PER ITEM 202572 -
BORROW AREA EROSION AND SEDIMENT
CONTROL AND DEWATERING

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AUGUST 2015

B CONSTRUCTION
BORROW & WETLAND
MITIGATION SITE

CONTRACT T200811301
BORROW SOURCE
DESIGN GRADING

RM MONITORING WELL
O

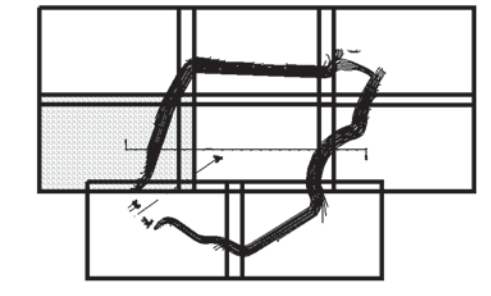
TOPSOIL STOCKPILE
CONTRACT T200811301

WETLAND DITCH

DUCTILE IRON PIPE
OF BEAVER DAM
BYPASS DEVICE

MATCHLINE - SEE SHEET WM-8

MATCHLINE - SEE SHEET WM-10



KEY MAP

7/24/2012 7:49:44 PM
\\RKKM\2008\2008\08013_DE301\CADD\2911303_PLANS\CP04_301DS2_000_RKK.DGN



ADDENDUMS / REVISIONS	



US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

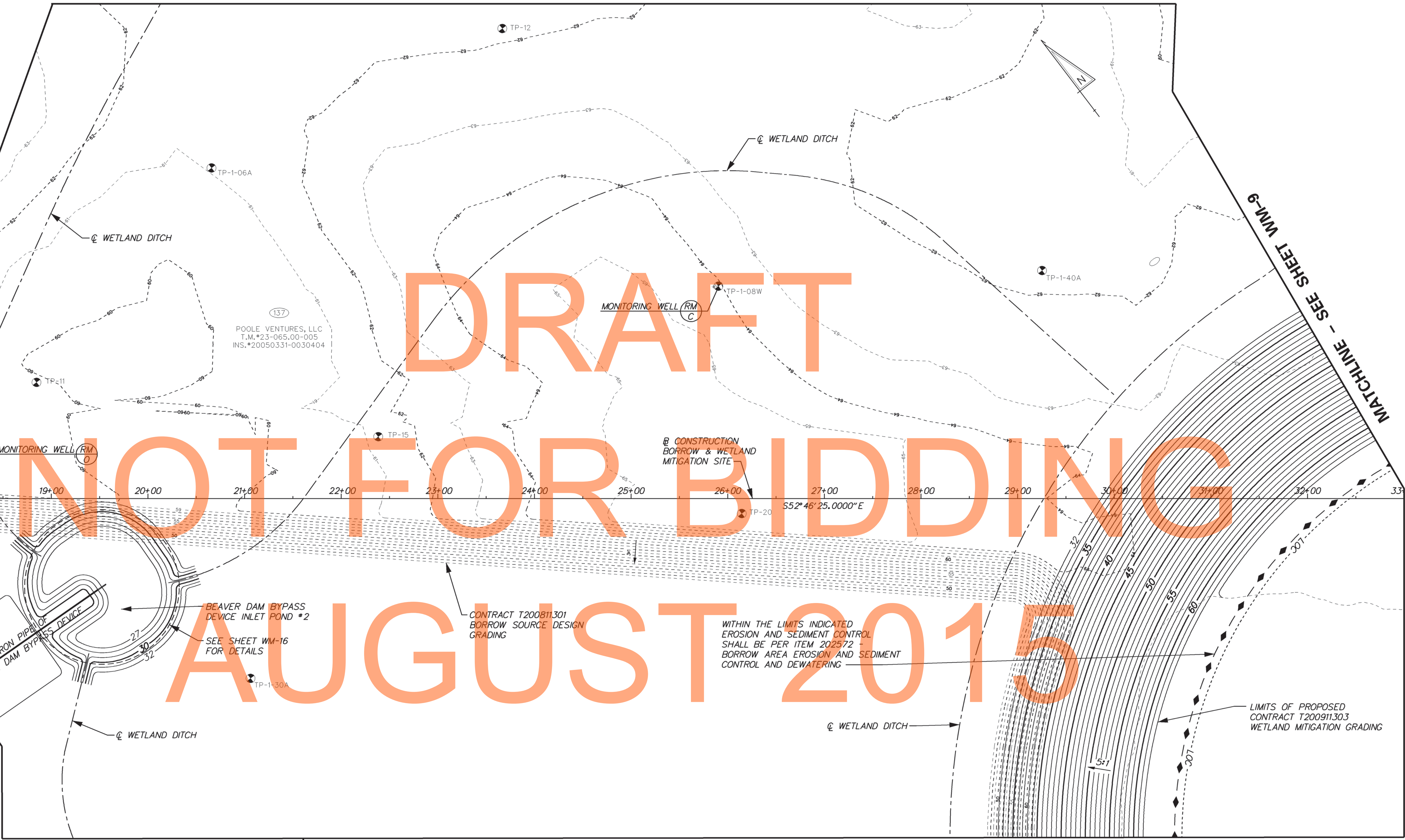
GRADING PLAN
BORROW SITE /
WETLAND MITIGATION
PLAN

WM-7
SHEET NO. 808
TOTAL SHTS. 1256

MATCHLINE - SEE SHEET WM-5

MATCHLINE - SEE SHEET WM-9

MATCHLINE - SEE SHEET WM-7



MATCHLINE - SEE SHEET WM-10

MATCHLINE - SEE SHEET WM-11

DRAFT

NOT FOR BIDDING

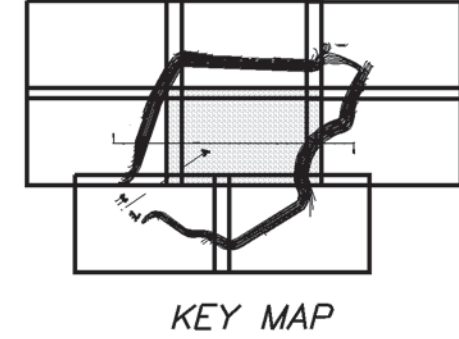
AUGUST 2015

137
 POOLE VENTURES, LLC
 T.M.#23-065,00-005
 INS.#20050331-0030404

CONSTRUCTION
 BORROW & WETLAND
 MITIGATION SITE

WITHIN THE LIMITS INDICATED
 EROSION AND SEDIMENT CONTROL
 SHALL BE PER ITEM 202572 -
 BORROW AREA EROSION AND SEDIMENT
 CONTROL AND DEWATERING

LIMITS OF PROPOSED
 CONTRACT T200911303
 WETLAND MITIGATION GRADING



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ADDENDUMS / REVISIONS

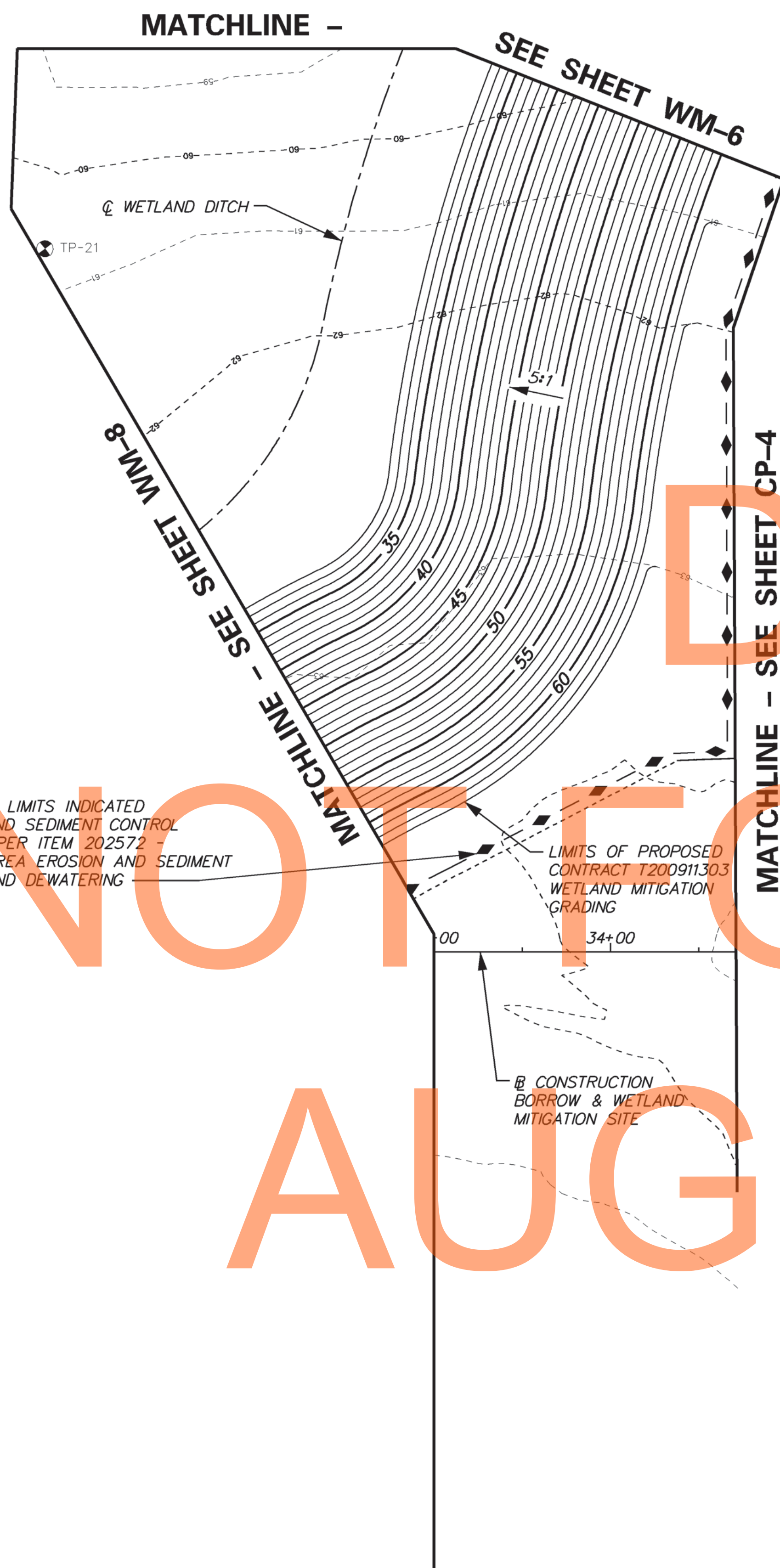


**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

GRADING PLAN
**BORROW SITE /
 WETLAND MITIGATION
 PLAN**

WM-8
SHEET NO. 809
TOTAL SHTS. 1256

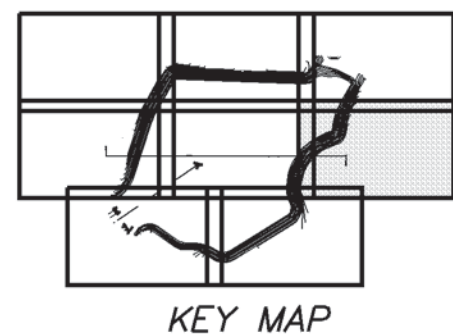


WITHIN THE LIMITS INDICATED
EROSION AND SEDIMENT CONTROL
SHALL BE PER ITEM 202572 -
BORROW AREA EROSION AND SEDIMENT
CONTROL AND DEWATERING

LIMITS OF PROPOSED
CONTRACT T200911303
WETLAND MITIGATION
GRADING

CONSTRUCTION
BORROW & WETLAND
MITIGATION SITE

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AUGUST 2015

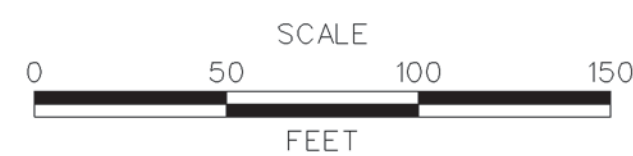


MATCHLINE - SEE SHEET WM-12

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ADDENDUMS / REVISIONS



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

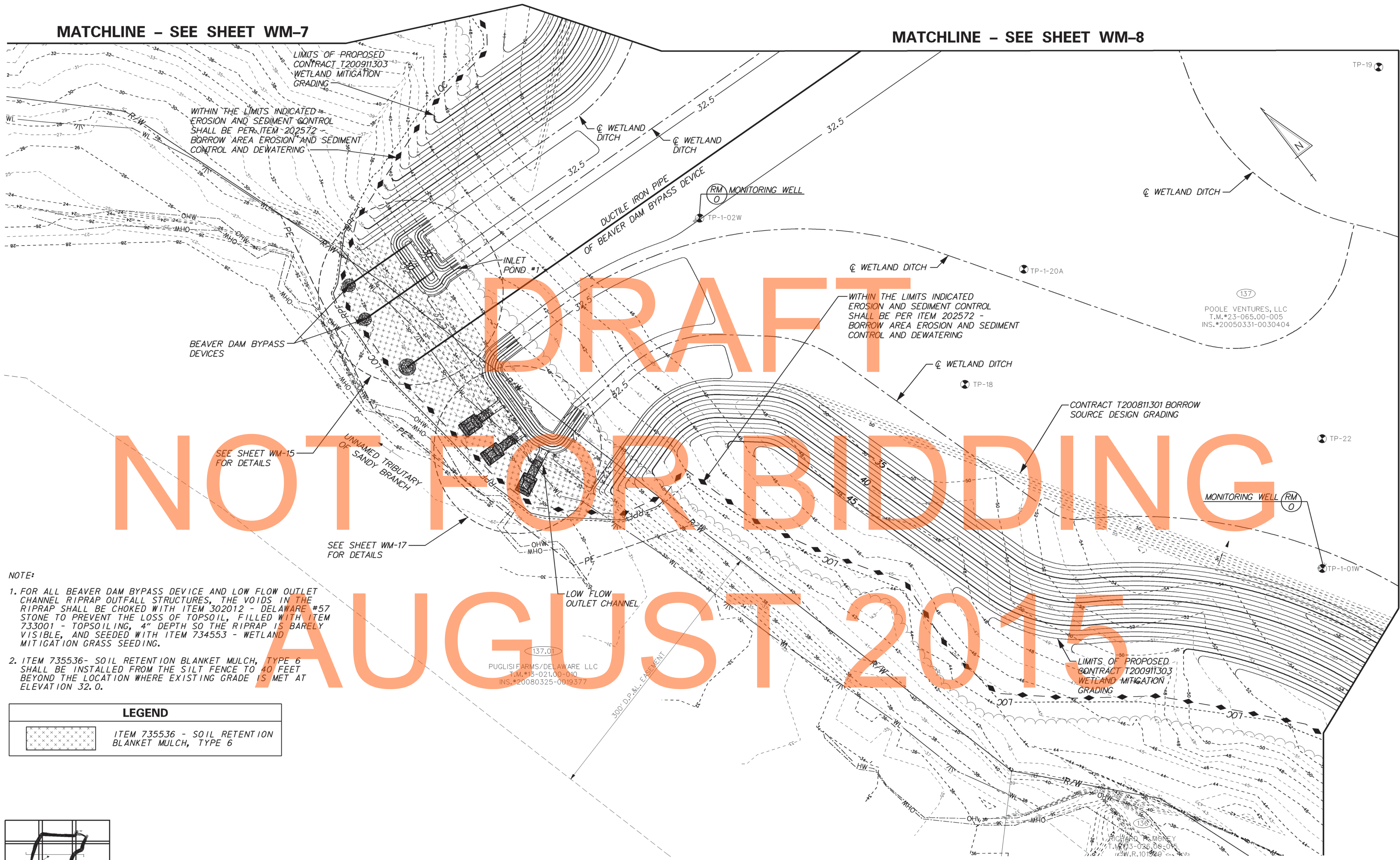
GRADING PLAN

**BORROW SITE /
WETLAND MITIGATION
PLAN**

WM-9
SHEET NO. 810
TOTAL SHTS. 1256

MATCHLINE - SEE SHEET WM-7

MATCHLINE - SEE SHEET WM-8



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AUGUST 2015

NOTE:

1. FOR ALL BEAVER DAM BYPASS DEVICE AND LOW FLOW OUTLET CHANNEL RIPRAP OUTFALL STRUCTURES, THE VOIDS IN THE RIPRAP SHALL BE CHOKED WITH ITEM 302012 - DELAWARE #57 STONE TO PREVENT THE LOSS OF TOPSOIL, FILLED WITH ITEM 733001 - TOPSOILING, 4" DEPTH SO THE RIPRAP IS BARELY VISIBLE, AND SEEDED WITH ITEM 734553 - WETLAND MITIGATION GRASS SEEDING.
2. ITEM 735536 - SOIL RETENTION BLANKET MULCH, TYPE 6 SHALL BE INSTALLED FROM THE SILT FENCE TO 40 FEET BEYOND THE LOCATION WHERE EXISTING GRADE IS MET AT ELEVATION 32.0.

LEGEND

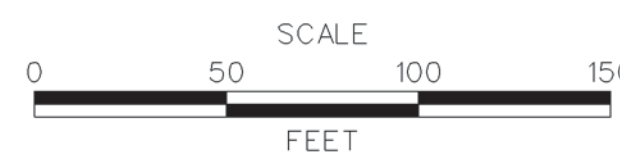
	ITEM 735536 - SOIL RETENTION BLANKET MULCH, TYPE 6
--	--



KEY MAP

ADDENDUMS / REVISIONS

NO.	DATE	DESCRIPTION



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

GRADING PLAN

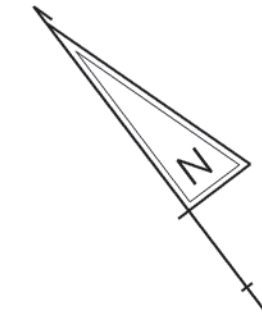
**BORROW SITE /
WETLAND MITIGATION
PLAN**

WM-10
SHEET NO.
811
TOTAL SHTS.
1256

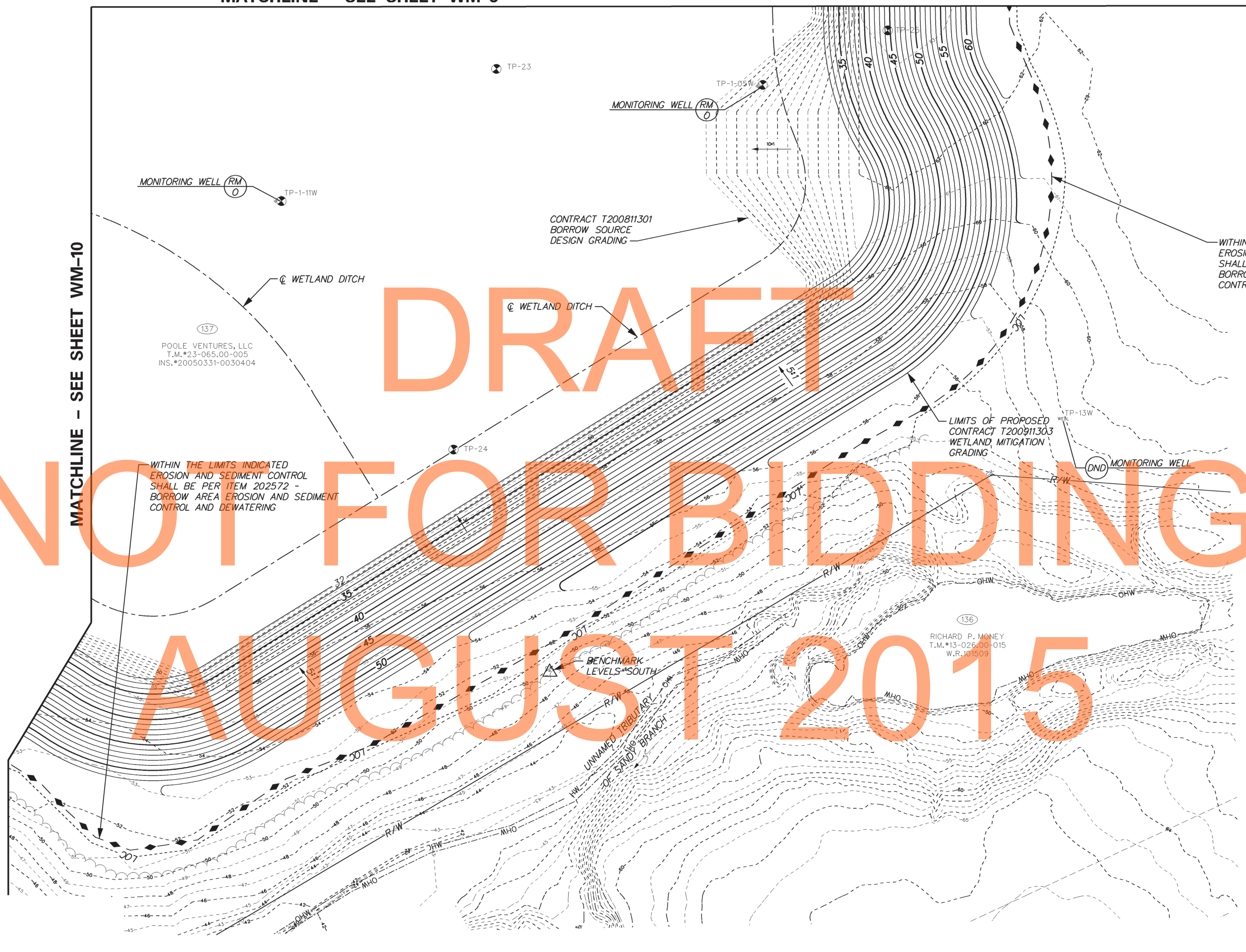
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MATCHLINE - SEE SHEET WM-11

MATCHLINE - SEE SHEET WM-8



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AUGUST 2015



137
POOLE VENTURES, LLC
T.M.#23-065.00-005
INS.#20050331-0030404

137
POOLE VENTURES, LLC
T.M.#23-065.00-005
INS.#20050331-0030404

136
RICHARD P. MONEY
T.M.#13-026.00-015
W.R.101509

WITHIN THE LIMITS INDICATED
EROSION AND SEDIMENT CONTROL
SHALL BE PER ITEM 202572 -
BORROW AREA EROSION AND SEDIMENT
CONTROL AND DEWATERING

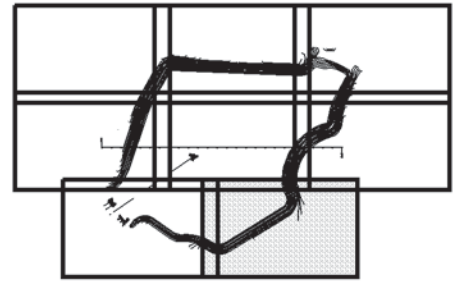
WITHIN THE LIMITS INDICATED
EROSION AND SEDIMENT CONTROL
SHALL BE PER ITEM 202572 -
BORROW AREA EROSION AND SEDIMENT
CONTROL AND DEWATERING

LIMITS OF PROPOSED
CONTRACT T200911303
WETLAND MITIGATION
GRADING

CONTRACT T200811301
BORROW SOURCE
DESIGN GRADING

BENCHMARK
LEVELS-SOUTH

UNNAMED TRIBUTARY
OF SANDY BRANCH



KEY MAP

GRADING PLAN

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

**BORROW SITE /
WETLAND MITIGATION
PLAN**

WM-11
SHEET NO. 812
TOTAL SHTS. 1256

7/24/2012 10:24:45 AM
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SEE DETAIL WM-15 FOR STAKEOUT INFORMATION

SEE DETAIL WM-17 FOR STAKEOUT INFORMATION

SEE DETAIL WM-16 FOR STAKEOUT INFORMATION



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AUGUST 2015

ELEV. 32.0 CONTOUR

R=155'

R=100'

R=520'

R=70'

WETLAND DITCH

WETLAND DITCH

WETLAND DITCH

WETLAND DITCH

WETLAND DITCH

NOTE: SEE SHEET WM-2 FOR DIMENSIONS OF WETLAND DITCHES

GRADE STAKEOUT



DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MRS
NEW CASTLE	CHECKED BY: JTR

BORROW SITE / WETLAND MITIGATION PLAN

WM-12
SHEET NO.
813
TOTAL SHTS.
1256

9/7/2012 4:59:33 PM \\RRKMV\2008\2008\08013_DE301\CADD\2911303\PLANS\GG01_301DS2_000_RKK.DGN

WETLAND DITCH STAKE OUT DATA

Table with 5 columns: POINT, NORTHING, EAST ING, ELEVATION, COMMENTS. Contains 74 rows of data for wetland ditch stake out.

WETLAND DITCH STAKE OUT DATA

Table with 5 columns: POINT, NORTHING, EAST ING, ELEVATION, COMMENTS. Contains 74 rows of data for wetland ditch stake out.

WETLAND DITCH STAKE OUT DATA

Table with 5 columns: POINT, NORTHING, EAST ING, ELEVATION, COMMENTS. Contains 74 rows of data for wetland ditch stake out.

DRAFT FOR BIDDING

9/4/2012 4:06:30 PM \\ARKM\12008\2008\08013.DE301\CADD\2911303\PLANS\G02...301052_000_RKK.dgn



ADDENDUMS / REVISIONS

NOT TO SCALE

US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

Table with contract details: CONTRACT T200911303, COUNTY NEW CASTLE, BRIDGE NO., DESIGNED BY: MRS, CHECKED BY: JTR.

GRADE STAKEOUT

BORROW SITE / WETLAND MITIGATION PLAN

Table with sheet information: WM-13, SHEET NO. 814, TOTAL SHTS. 1256.

WETLAND DITCH STAKE OUT DATA				
POINT	NORTHING	EASTING	ELEVATION	COMMENTS
223	527109.03	560615.83	29.0	WETLAND DITCH BOTTOM @ C
224	527125.66	560662.97	29.0	WETLAND DITCH BOTTOM @ C
225	527138.79	560711.20	29.0	WETLAND DITCH BOTTOM @ C
226	527148.35	560760.27	29.0	WETLAND DITCH BOTTOM @ C
227	527154.27	560809.90	29.0	WETLAND DITCH BOTTOM @ C
228	527156.53	560859.84	29.0	WETLAND DITCH BOTTOM @ C
229	527155.11	560909.81	29.0	WETLAND DITCH BOTTOM @ C
230	527153.96	560959.72	29.0	WETLAND DITCH BOTTOM @ C
231	527164.47	561008.47	29.0	WETLAND DITCH BOTTOM @ C
232	527186.71	561053.11	29.0	WETLAND DITCH BOTTOM @ C
233	527218.17	561091.92	29.0	WETLAND DITCH BOTTOM @ C
234	527249.38	561130.97	29.0	WETLAND DITCH BOTTOM @ C
235	527278.52	561171.59	29.0	WETLAND DITCH BOTTOM @ C
236	527305.51	561213.68	29.0	WETLAND DITCH BOTTOM @ C
237	527330.27	561257.11	29.0	WETLAND DITCH BOTTOM @ C
238	527352.74	561301.77	29.0	WETLAND DITCH BOTTOM @ C
239	527375.74	561353.91	29.0	WETLAND DITCH BOTTOM @ C

WETLAND GRADING STAKE OUT DATA					
POINT	NORTHING	EASTING	REMARKS	ELEVATION	COMMENTS
243	527433.80	558806.30	POB/PC	32.0	EXTENT 32.0' FINAL GRADE
244	527440.61	558809.33	PT	32.0	EXTENT 32.0' FINAL GRADE
245	527468.18	558895.34	PC	32.0	EXTENT 32.0' FINAL GRADE
246	527450.45	558989.07	PT	32.0	EXTENT 32.0' FINAL GRADE
247	527420.45	559025.85	PC	32.0	EXTENT 32.0' FINAL GRADE
248	527372.40	559058.22	PT	32.0	EXTENT 32.0' FINAL GRADE
249	527108.10	559139.63	PC	32.0	EXTENT 32.0' FINAL GRADE
250	527052.03	559183.36	PCC	32.0	EXTENT 32.0' FINAL GRADE
251	526776.41	559405.54	PCC	32.0	EXTENT 32.0' FINAL GRADE
252	526709.37	559490.59	PT	32.0	EXTENT 32.0' FINAL GRADE
253	526640.55	560210.89	PC	32.0	EXTENT 32.0' FINAL GRADE
254	526713.70	560303.20	PT	32.0	EXTENT 32.0' FINAL GRADE
255	526735.62	560306.18	PC	32.0	EXTENT 32.0' FINAL GRADE
256	526833.71	560346.60	PCC	32.0	EXTENT 32.0' FINAL GRADE
257	527094.18	560989.83	PCC	32.0	EXTENT 32.0' FINAL GRADE
258	527114.32	561054.13	PCC	32.0	EXTENT 32.0' FINAL GRADE
259	527320.69	561352.38	PT	32.0	EXTENT 32.0' FINAL GRADE
260	527325.91	561364.57	PC	32.0	EXTENT 32.0' FINAL GRADE
261	527402.00	561375.46	PT	32.0	EXTENT 32.0' FINAL GRADE
262	528277.70	560312.56	PC	32.0	EXTENT 32.0' FINAL GRADE
263	528299.18	559838.84	PT	32.0	EXTENT 32.0' FINAL GRADE
264	527813.85	559127.18	PC	32.0	EXTENT 32.0' FINAL GRADE
265	527787.03	559033.52	PT	32.0	EXTENT 32.0' FINAL GRADE
266	527797.89	558767.91	PC	32.0	EXTENT 32.0' FINAL GRADE
267	527801.97	558763.19	POE	32.0	EXTENT 32.0' FINAL GRADE

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AUGUST 2015

GRADE STAKEOUT



ADDENDUMS / REVISIONS

NOT TO SCALE

US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

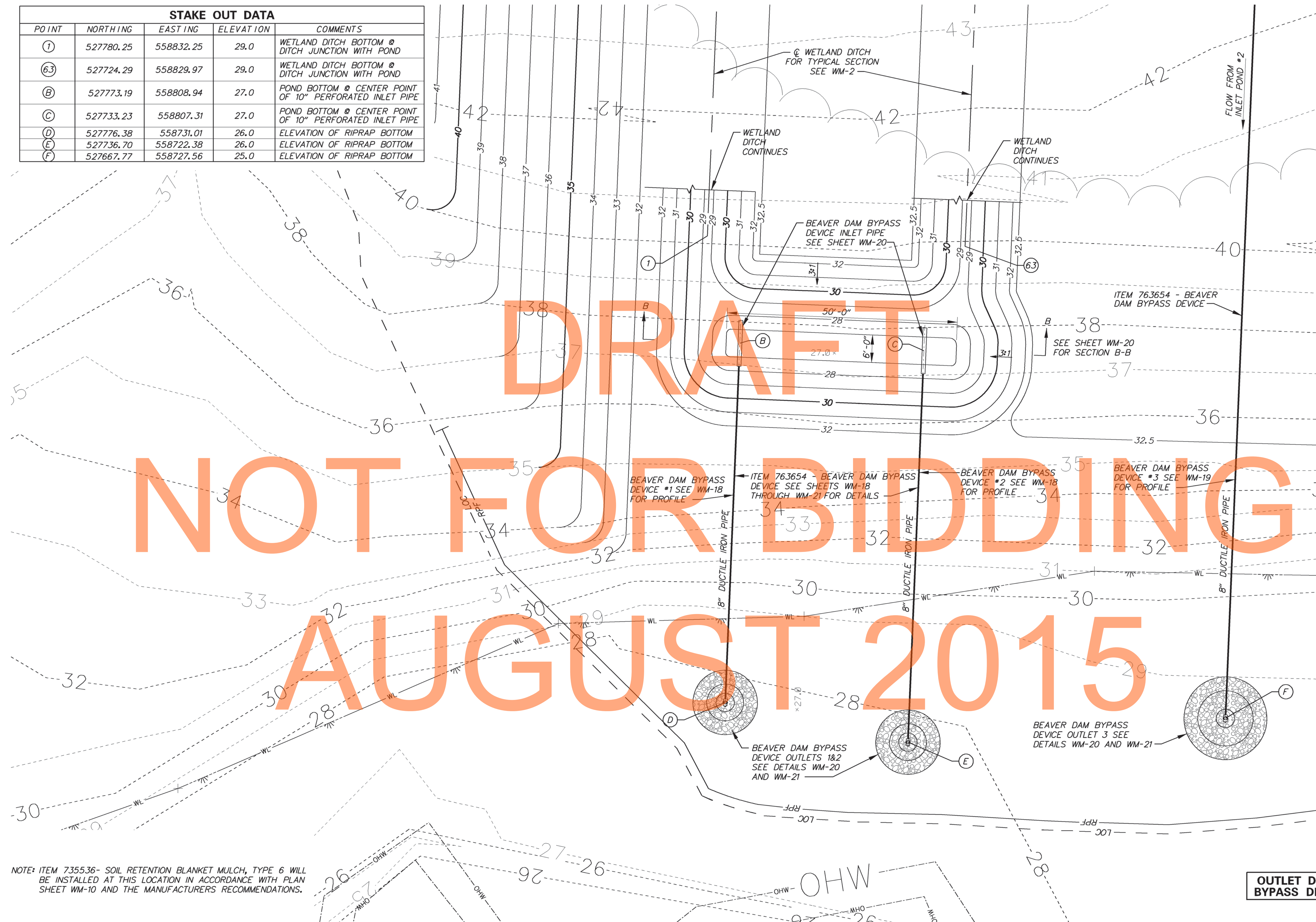
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

BORROW SITE / WETLAND MITIGATION PLAN

WM-14
SHEET NO. 815
TOTAL SHTS. 1256

7/24/2012 10:29:19 AM \\RRK\X\2008\2008\08013_DE301\CADD\2911303\PLANS\GG03_301D52_000_RKK.dgn

STAKE OUT DATA				
POINT	NORTHING	EASTING	ELEVATION	COMMENTS
①	527780.25	558832.25	29.0	WETLAND DITCH BOTTOM @ DITCH JUNCTION WITH POND
⑥.3	527724.29	558829.97	29.0	WETLAND DITCH BOTTOM @ DITCH JUNCTION WITH POND
Ⓑ	527773.19	558808.94	27.0	POND BOTTOM @ CENTER POINT OF 10" PERFORATED INLET PIPE
Ⓒ	527733.23	558807.31	27.0	POND BOTTOM @ CENTER POINT OF 10" PERFORATED INLET PIPE
Ⓓ	527776.38	558731.01	26.0	ELEVATION OF RIPRAP BOTTOM
Ⓔ	527736.70	558722.38	26.0	ELEVATION OF RIPRAP BOTTOM
Ⓕ	527667.77	558727.56	25.0	ELEVATION OF RIPRAP BOTTOM



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MATCHLINE - SEE SHEET WM-17

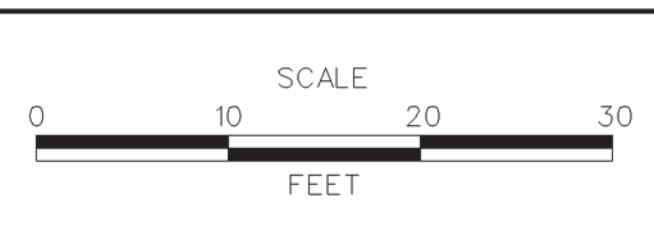


NOTE: ITEM 735536- SOIL RETENTION BLANKET MULCH, TYPE 6 WILL BE INSTALLED AT THIS LOCATION IN ACCORDANCE WITH PLAN SHEET WM-10 AND THE MANUFACTURERS RECOMMENDATIONS.

OUTLET DETAIL - BEAVER DAM BYPASS DEVICE INLET POND #1

7/27/2012 11:29:05 PM \\RRK\WVZ008\2008\08013_DE501\CADD\291303\PLANS\DT01_301DS2_000_RKK.dgn

ADDENDUMS / REVISIONS



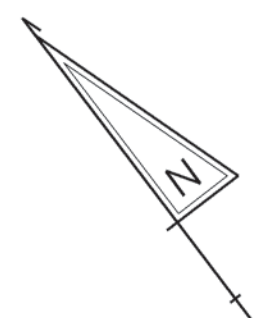
US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

BORROW SITE / WETLAND MITIGATION PLAN

WM-15
SHEET NO. 816
TOTAL SHTS. 1256

CONTRACT T200811301
BORROW SOURCE DESIGN
GRADING



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AUGUST 2015



ITEM 763654 - BEAVER
DAM BYPASS DEVICE
*3 - SEE WM-19
FOR PROFILE

DUCTILE IRON PIPE
FLOW TO BEAVER
DAM BYPASS
DEVICE OUTLET *3

BEAVER DAM BYPASS DEVICE
INLET PIPE SEE SHEET WM-20

FOR WETLAND DITCH
TYPICAL CROSS
SECTION SEE WM-2

STAKE OUT DATA				
	NORTHING	EASTING	ELEVATION	COMMENTS
(A)	527624.69	559781.69	N/A	CENTER POINT OF PERFORATED INLET PIPE
(250)	527688.09	559750.86	29.0	WETLAND DITCH BOTTOM @ INTERSECTION WITH POND
(251)	527586.59	559839.07	29.0	WETLAND DITCH BOTTOM @ INTERSECTION WITH POND
(252)	527578.20	559729.29	29.0	WETLAND DITCH BOTTOM @ INTERSECTION WITH POND
(253)	527572.99	559745.71	27.0	CENTER OF RADIUS @ POND BOTTOM
(254)	527576.70	559822.12	27.0	CENTER OF RADIUS @ POND BOTTOM
(255)	527669.28	559825.90	27.0	CENTER OF RADIUS @ POND BOTTOM
(256)	527679.19	559750.02	27.0	CENTER OF RADIUS @ POND BOTTOM

SEE SHEET WM-12 FOR WETLAND DITCH STAKEOUT DATA

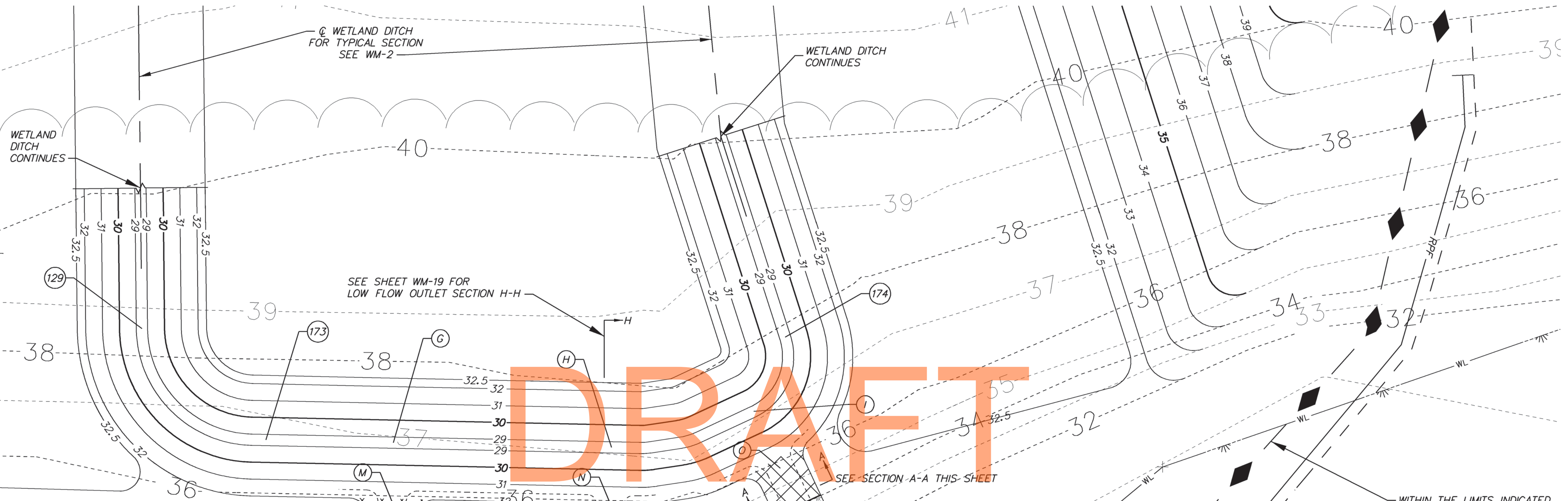
OUTLET DETAIL - BEAVER DAM BYPASS DEVICE INLET POND #2

9/11/2012 10:42:10 AM \\RKKM\2008\2008\08013_DE301\CADD\2911303\PLANS\DT02_301D52_000_RKK.DGN

7/27/2012 2:09:40 PM \\RRK\WV2008\2008\08013_DE501\CADD\291303\PLANS\DT03_30\DS2_000_RR\K.DGN

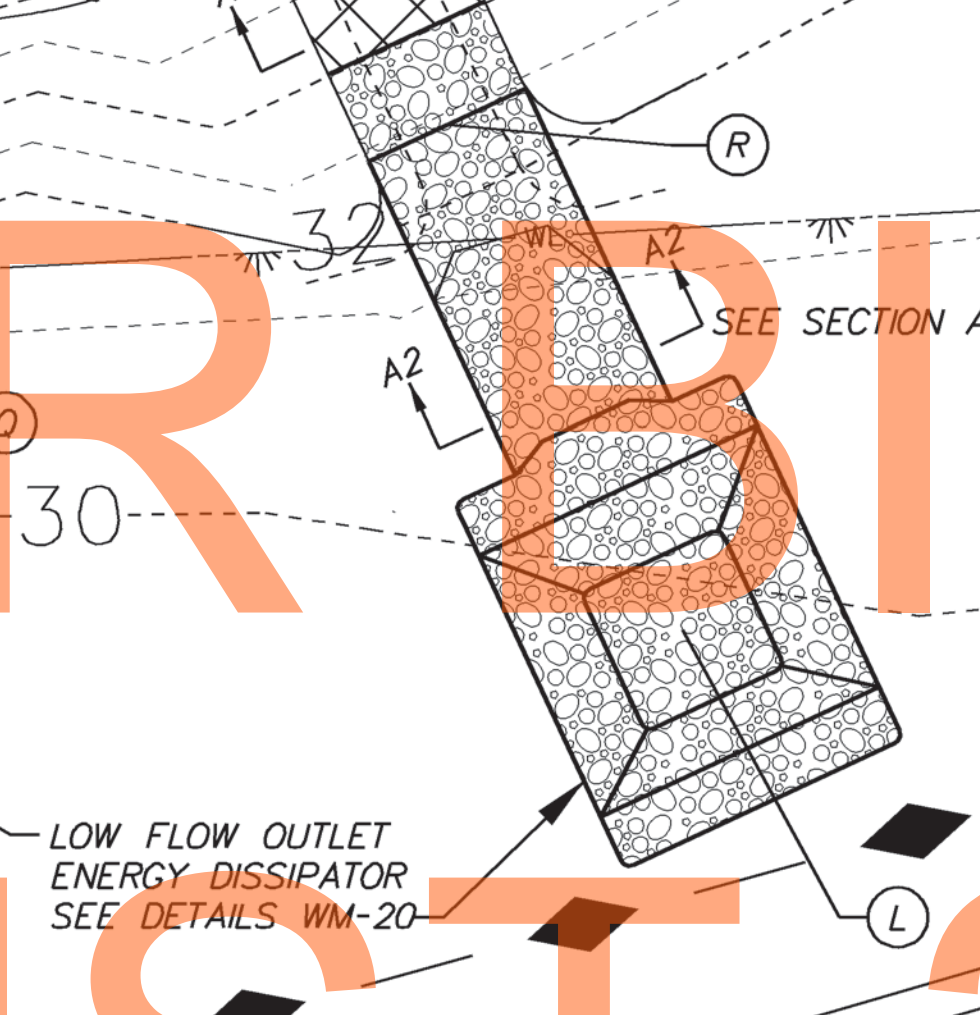
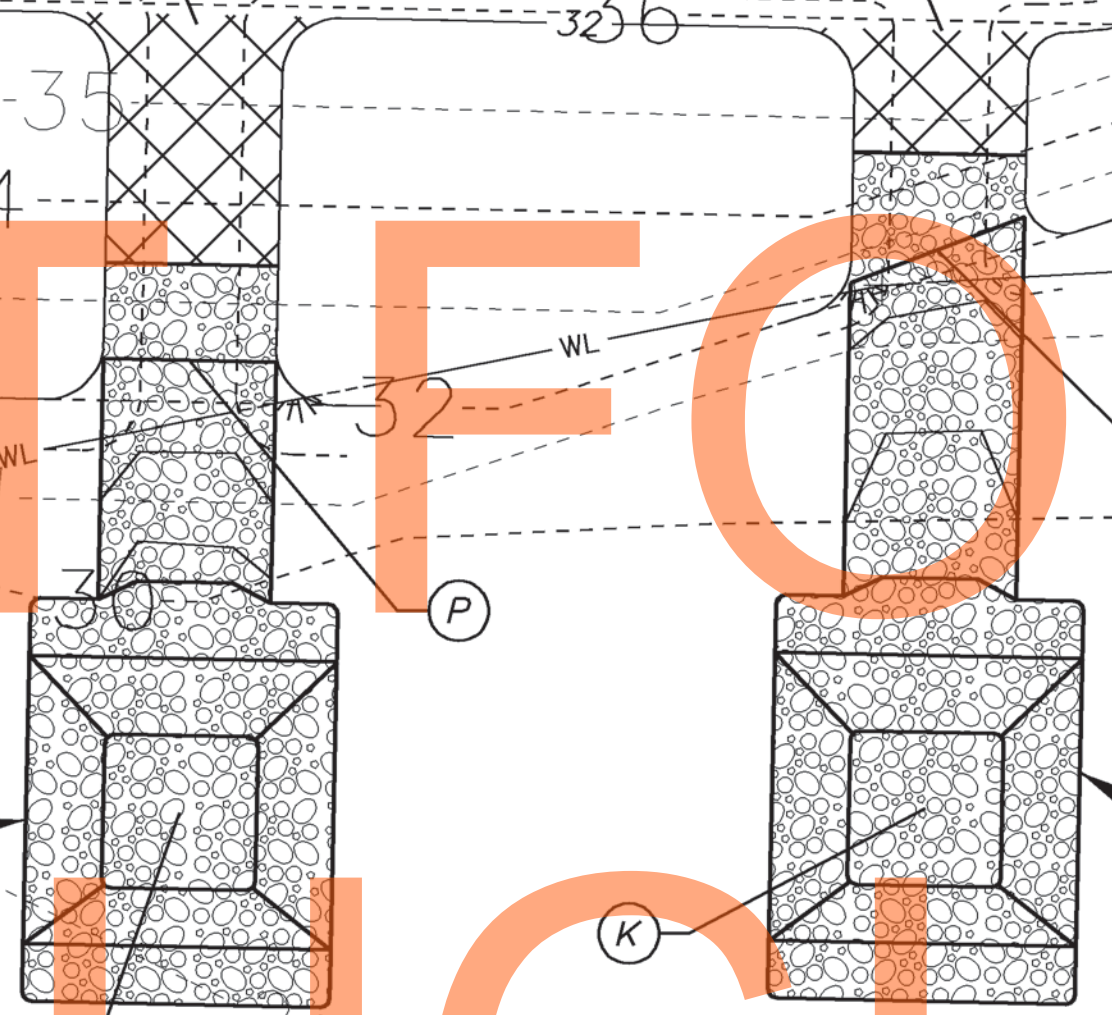
MATCHLINE - SEE SHEET WM-15

DRAFT
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AUGUST 2015



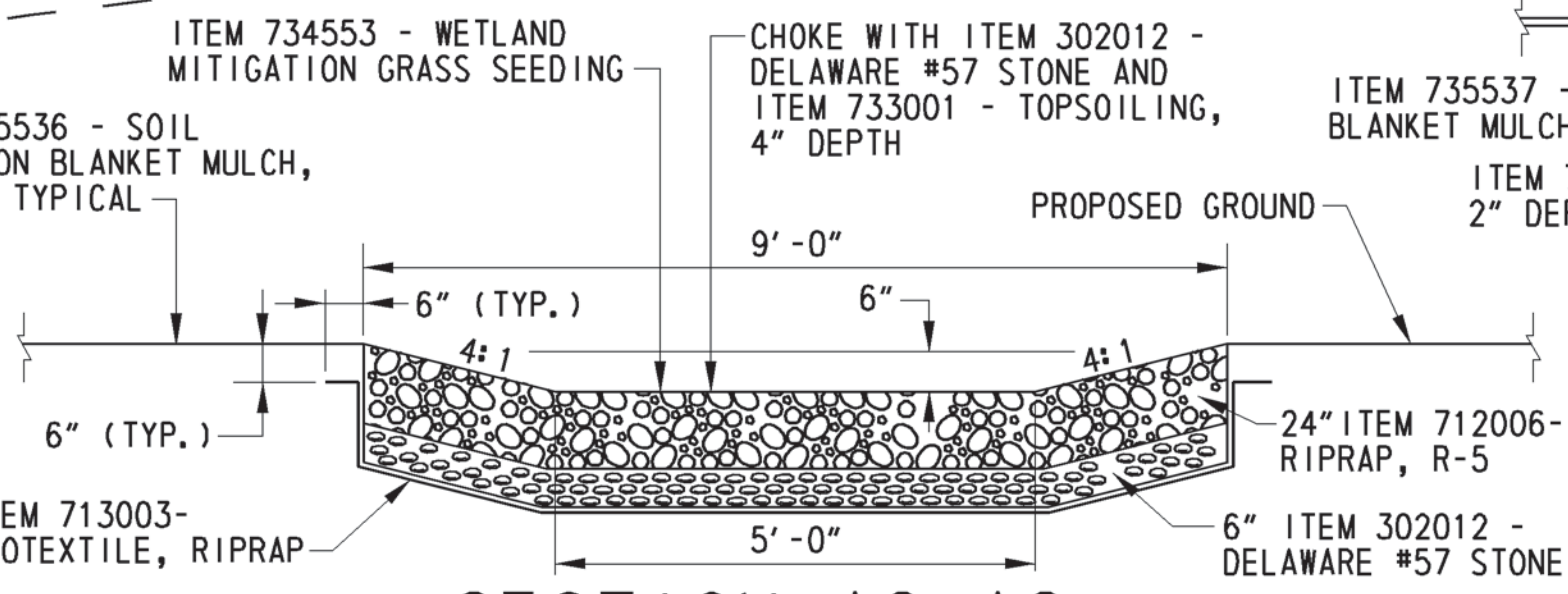
ALL RIPRAP LOW FLOW OUTLETS AND ENERGY DISSIPATORS SHALL BE INCLUDED IN AS-BUILT MILESTONE 1 PRIOR TO CHOKING WITH DELAWARE #57 STONE AND TOPSOIL

WITHIN THE LIMITS INDICATED EROSION AND SEDIMENT CONTROL SHALL BE PER ITEM 202572 - BORROW AREA EROSION AND SEDIMENT CONTROL AND DEWATERING

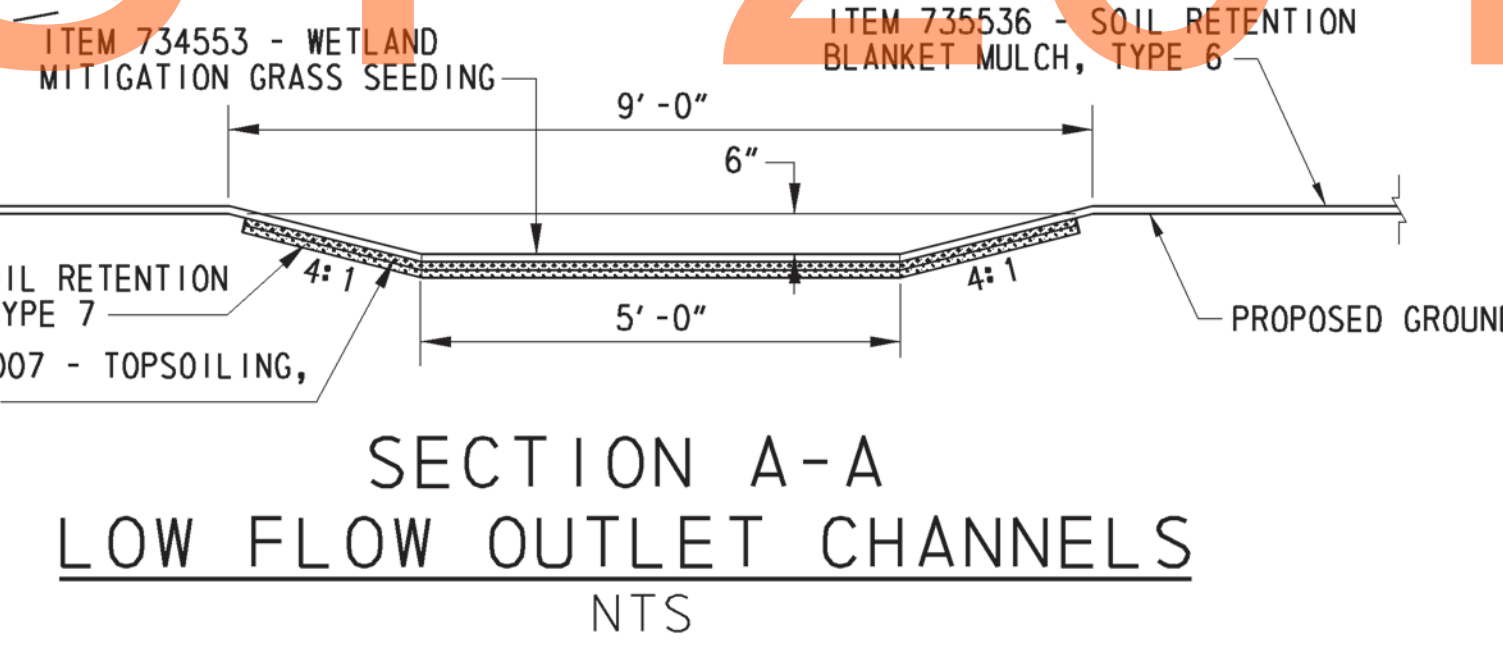


NOTE:
ITEM 735536 - SOIL RETENTION BLANKET MULCH, TYPE 6 SHALL BE INSTALLED IN ACCORDANCE WITH THE LIMITS ON PLAN SHEET WM-10 AND THE MANUFACTURER'S RECOMMENDATIONS.

LEGEND	
	ITEM 712006-RIPRAP, R-5
	ITEM 735537-SOIL RETENTION BLANKET MULCH, TYPE 7



SECTION A2-A2
LOW FLOW OUTLET CHANNELS
NTS



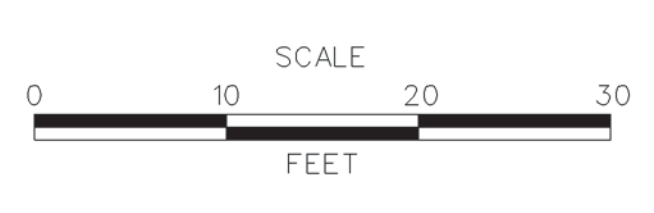
SECTION A-A
LOW FLOW OUTLET CHANNELS
NTS

STAKE OUT DATA				
POINT	NORTHING	EASTING	ELEVATION	COMMENTS
129	527619.35	558815.05	29.0	WETLAND DITCH BOTTOM @ C
173	527597.33	558795.25	29.0	WETLAND DITCH BOTTOM @ C
174	527504.96	558813.52	29.0	WETLAND DITCH BOTTOM @ C
G	527574.66	558794.74	29.0	WETLAND DITCH BOTTOM @ C
H	527535.86	558793.91	29.0	WETLAND DITCH BOTTOM @ C
I	527510.54	558800.31	29.0	WETLAND DITCH BOTTOM @ C
J	527575.78	558743.26	28.0	RIPRAP ELEVATION @ CENTER OF ENERGY DISSIPATOR
K	527536.96	558743.44	28.0	RIPRAP ELEVATION @ CENTER OF ENERGY DISSIPATOR
L	527488.35	558752.75	28.0	RIPRAP ELEVATION @ CENTER OF ENERGY DISSIPATOR
M	527574.89	558784.25	31.5	LOW FLOW DITCH BOTTOM
N	527536.07	558783.91	31.5	LOW FLOW DITCH BOTTOM
O	527505.83	558790.23	31.5	LOW FLOW DITCH BOTTOM
P	527575.26	558766.74	31.5	LOW FLOW DITCH BOTTOM AT SLOPE BREAK
Q	527536.32	558772.50	31.5	LOW FLOW DITCH BOTTOM AT SLOPE BREAK
R	527500.60	558779.02	31.5	LOW FLOW DITCH BOTTOM AT SLOPE BREAK

OUTLET DETAIL
LOW FLOW OUTLET CHANNELS



ADDENDUMS / REVISIONS

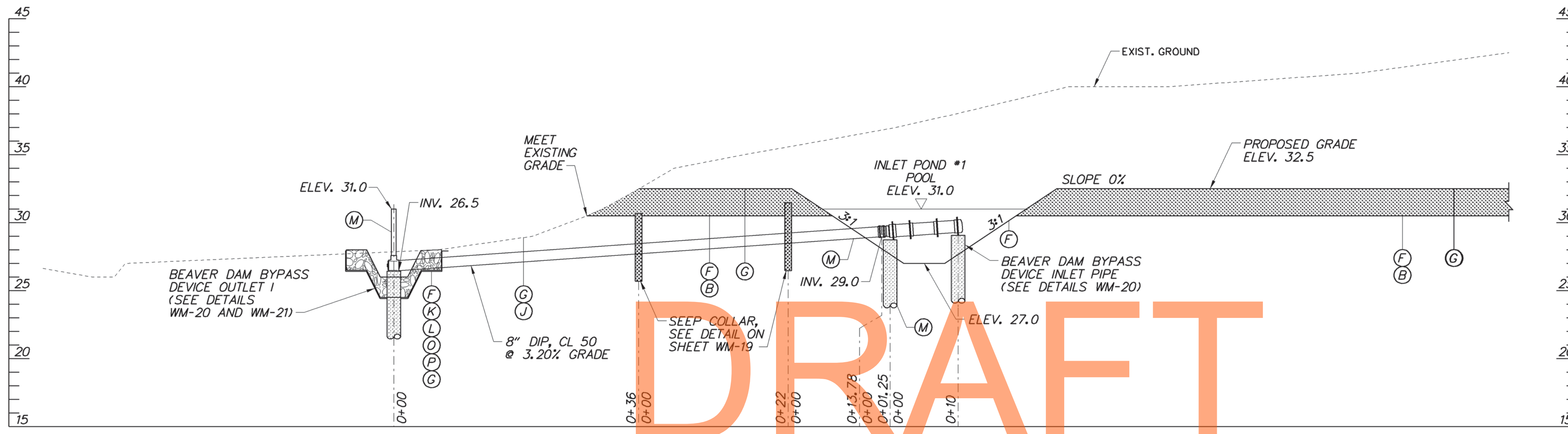


US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

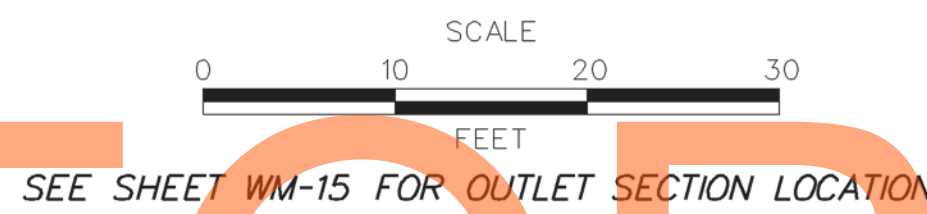
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

BORROW SITE /
WETLAND MITIGATION
PLAN

WM-17
SHEET NO.
818
TOTAL SHTS.
1256



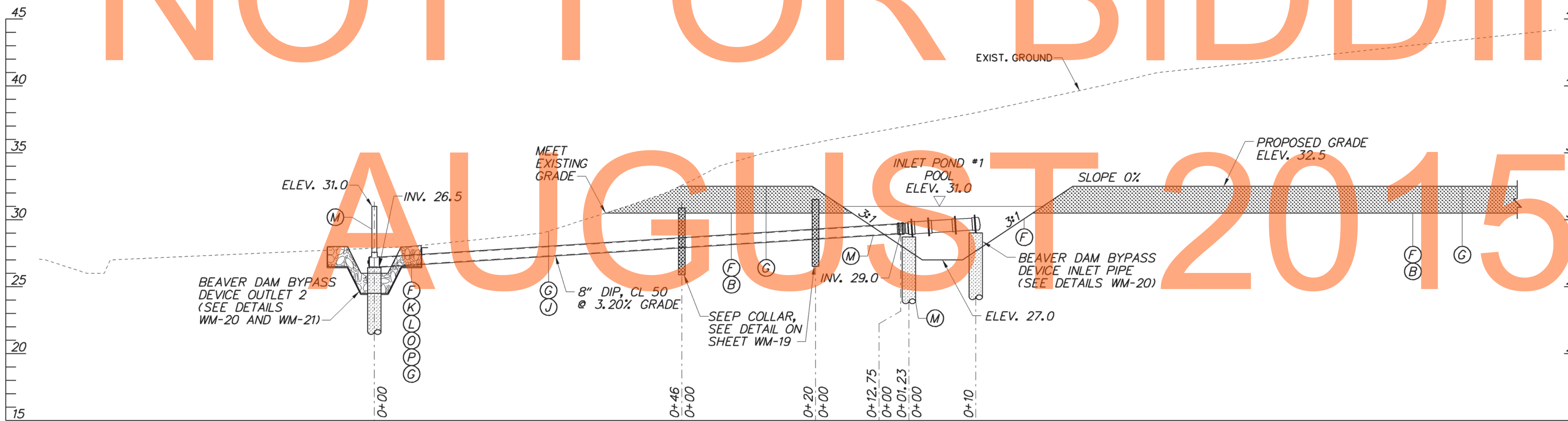
PROFILE - BEAVER DAM BYPASS DEVICE #1



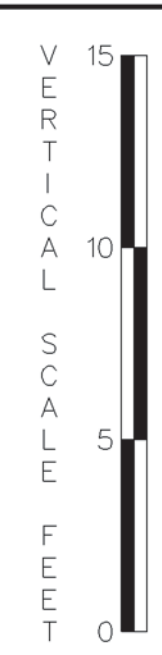
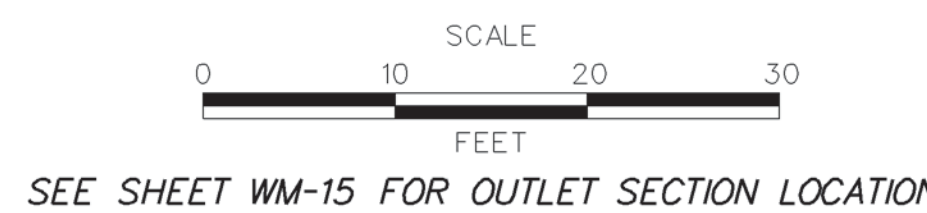
LEGEND	
(A)	ITEM 202555 SUBSOIL TILLAGE
(B)	ITEM 733008 TOPSOILING, 18" DEPTH
(C)	ITEM 733002 TOPSOILING, 6" DEPTH
(E)	ITEM 737503 BEDDING FOR REFORESTATION
(F)	ITEM 202000 EXCAVATION AND EMBANKMENT
(G)	ITEM 734553 WETLAND MITIGATION GRASS SEEDING
(H)	ITEM 734551 NATIVE GRASS SEEDING: NO MOW MIX
(L)	ITEM 735537 SOIL RETENTION BLANKET MULCH, TYPE 7
(L)	ITEM 735536 SOIL RETENTION BLANKET MULCH, TYPE 6
(K)	ITEM 713003 GEOTEXTILE, RIPRAP
(L)	ITEM 712006 RIPRAP, R-5
(M)	ITEM 763654 BEAVER DAM BYPASS DEVICE
(N)	ITEM 733007 TOPSOILING, 2" DEPTH
(O)	ITEM 302012 DELAWARE #57 STONE
(P)	ITEM 733001 TOPSOILING, 4" DEPTH

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AUGUST 2015



PROFILE - BEAVER DAM BYPASS DEVICE #2



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ADDENDUMS / REVISIONS

SCALE AS NOTED

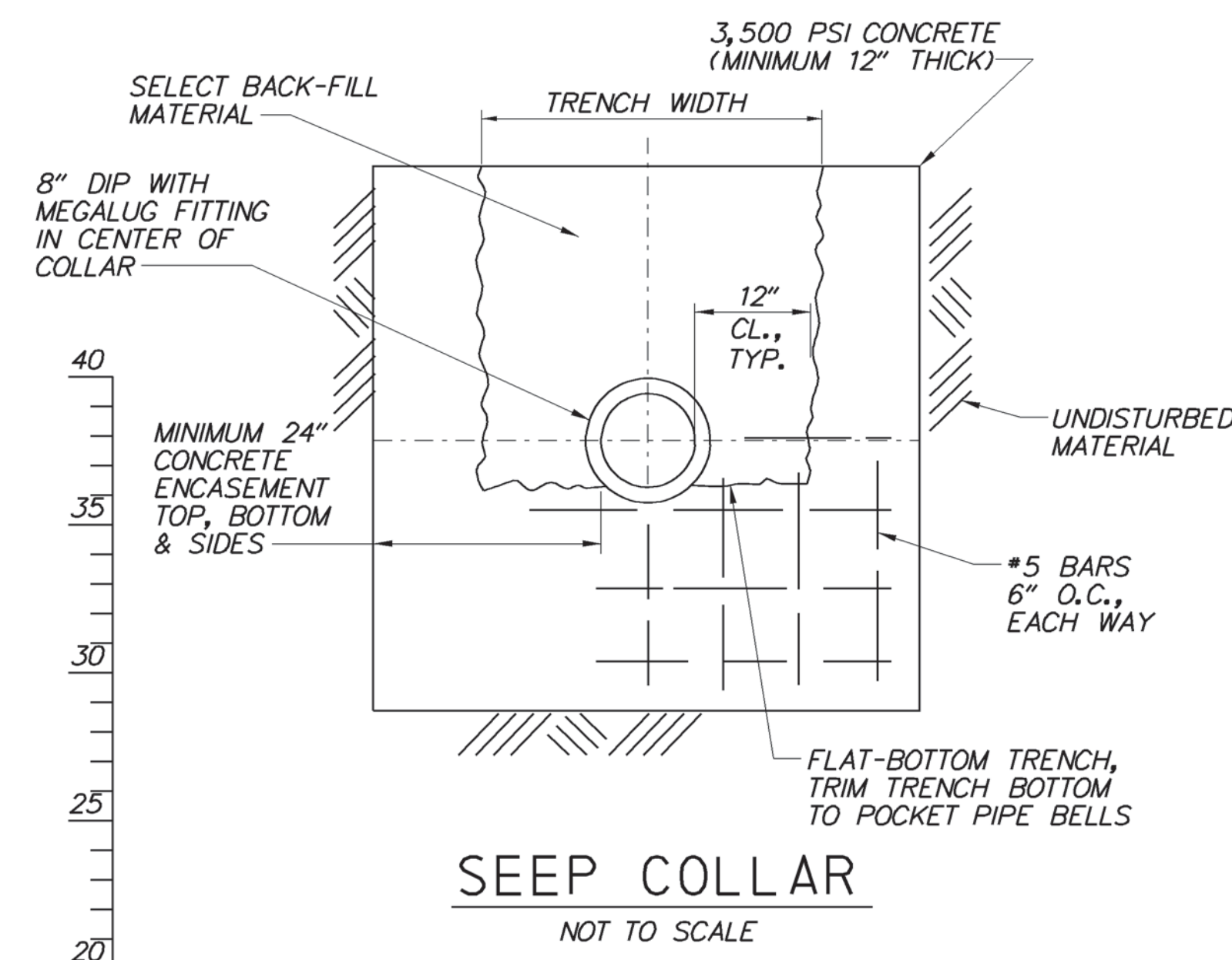
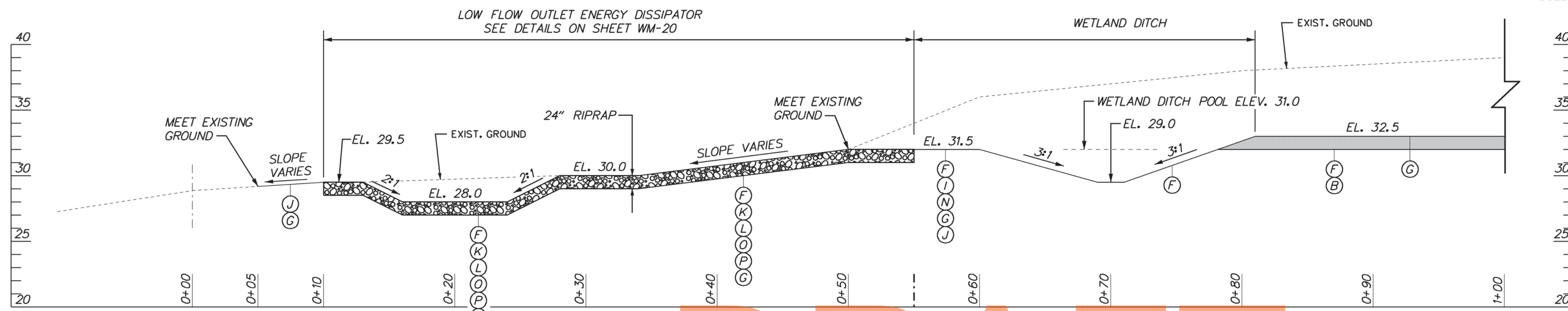
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

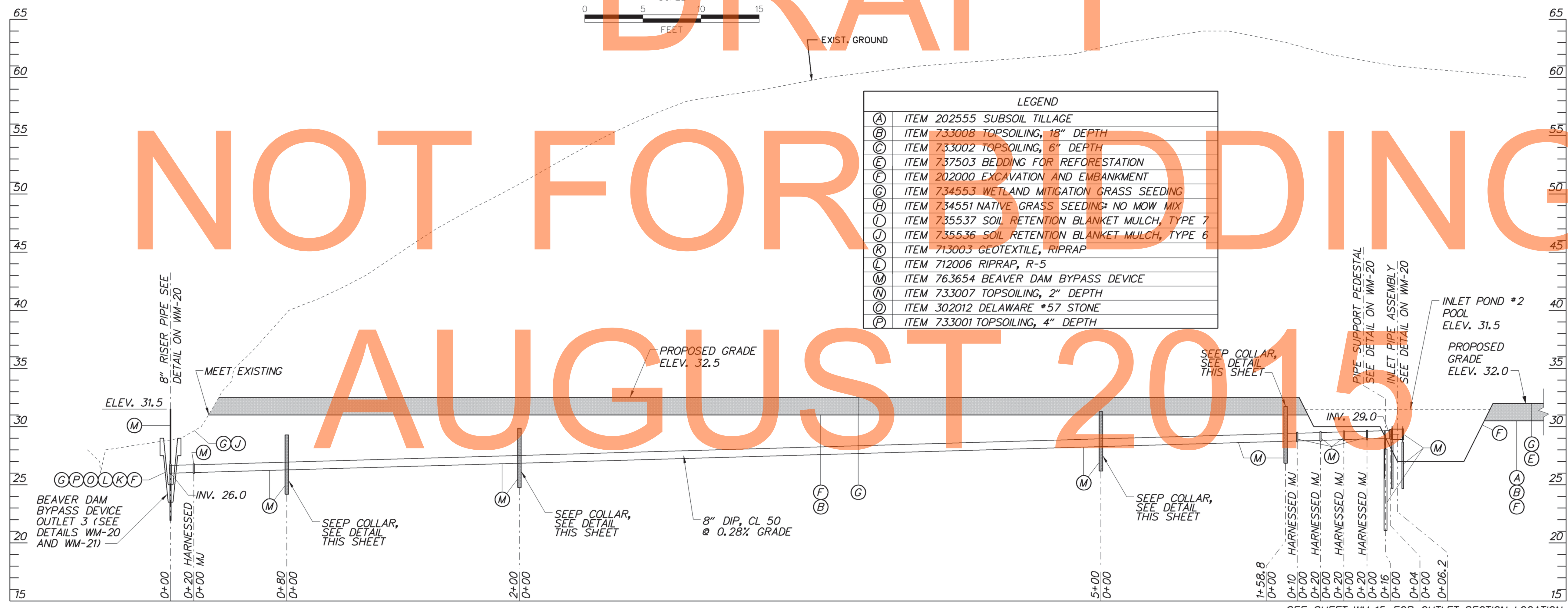
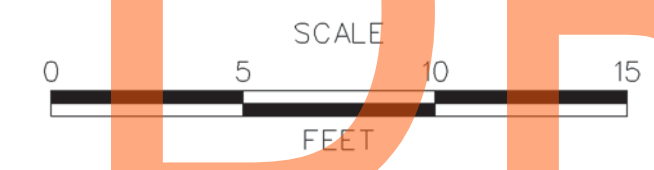
**BORROW SITE /
WETLAND MITIGATION
PLAN**

PROFILES

WM-18
SHEET NO. 819
TOTAL SHTS. 1256



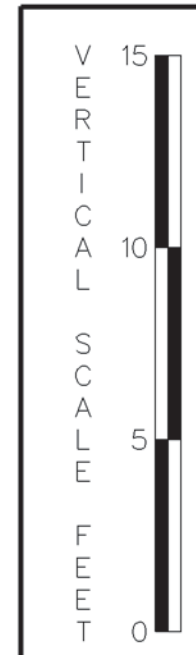
SECTION H-H - LOW FLOW OUTLET CHANNELS



LEGEND

(A)	ITEM 202555 SUBSOIL TILLAGE
(B)	ITEM 733008 TOPSOILING, 18" DEPTH
(C)	ITEM 733002 TOPSOILING, 6" DEPTH
(E)	ITEM 737503 BEDDING FOR REFORESTATION
(F)	ITEM 202000 EXCAVATION AND EMBANKMENT
(G)	ITEM 734553 WETLAND MITIGATION GRASS SEEDING
(H)	ITEM 734551 NATIVE GRASS SEEDING: NO MOW MIX
(L)	ITEM 735537 SOIL RETENTION BLANKET MULCH, TYPE 7
(J)	ITEM 735536 SOIL RETENTION BLANKET MULCH, TYPE 6
(K)	ITEM 713003 GEOTEXTILE, RIPRAP
(L)	ITEM 712006 RIPRAP, R-5
(M)	ITEM 763654 BEAVER DAM BYPASS DEVICE
(N)	ITEM 733007 TOPSOILING, 2" DEPTH
(O)	ITEM 302012 DELAWARE #57 STONE
(P)	ITEM 733001 TOPSOILING, 4" DEPTH

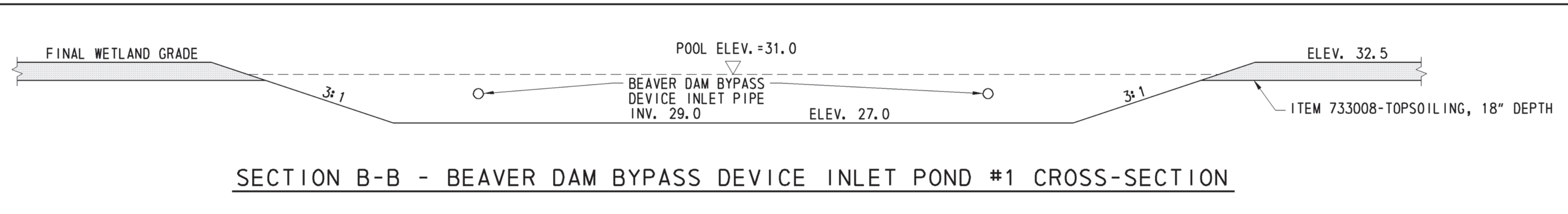
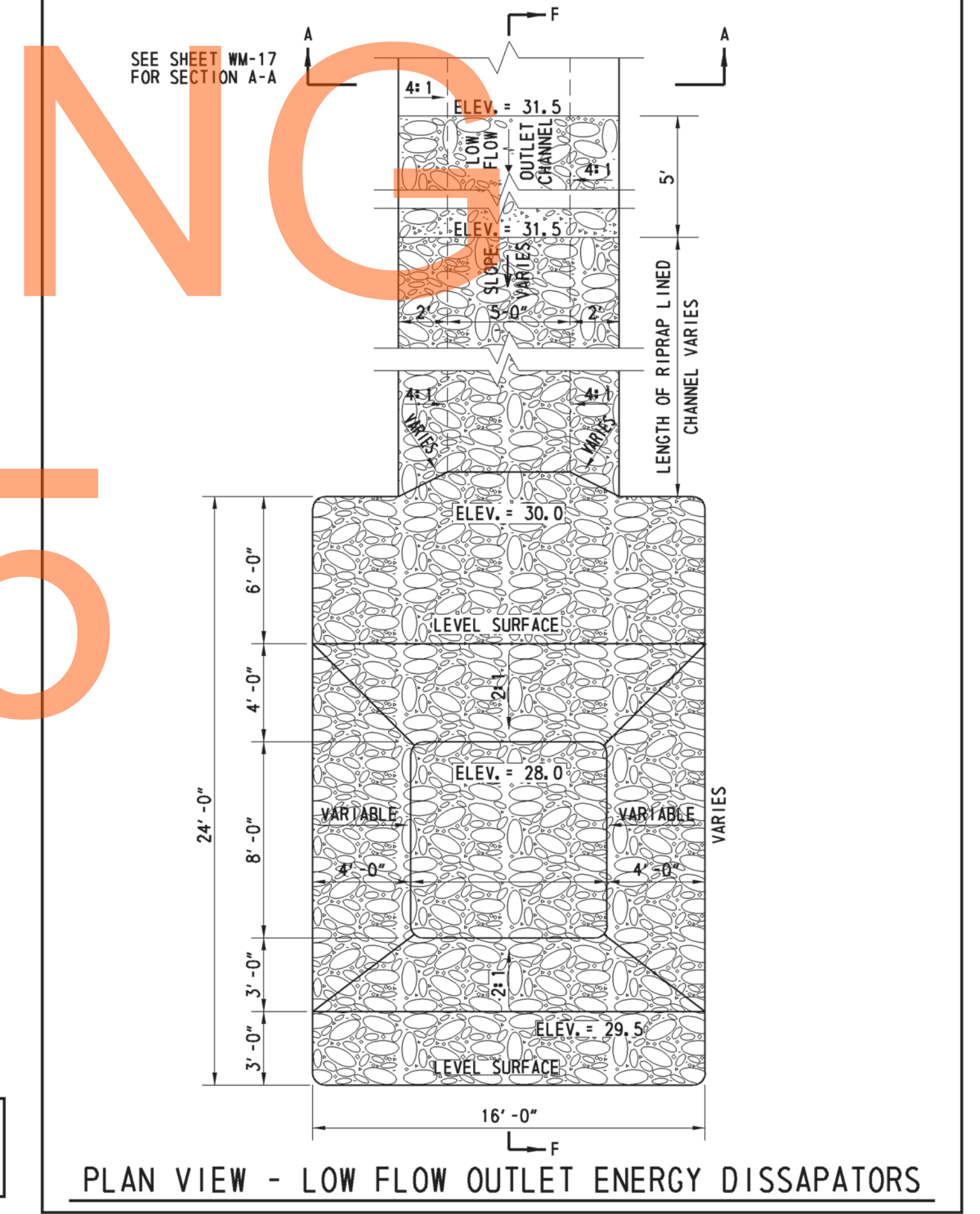
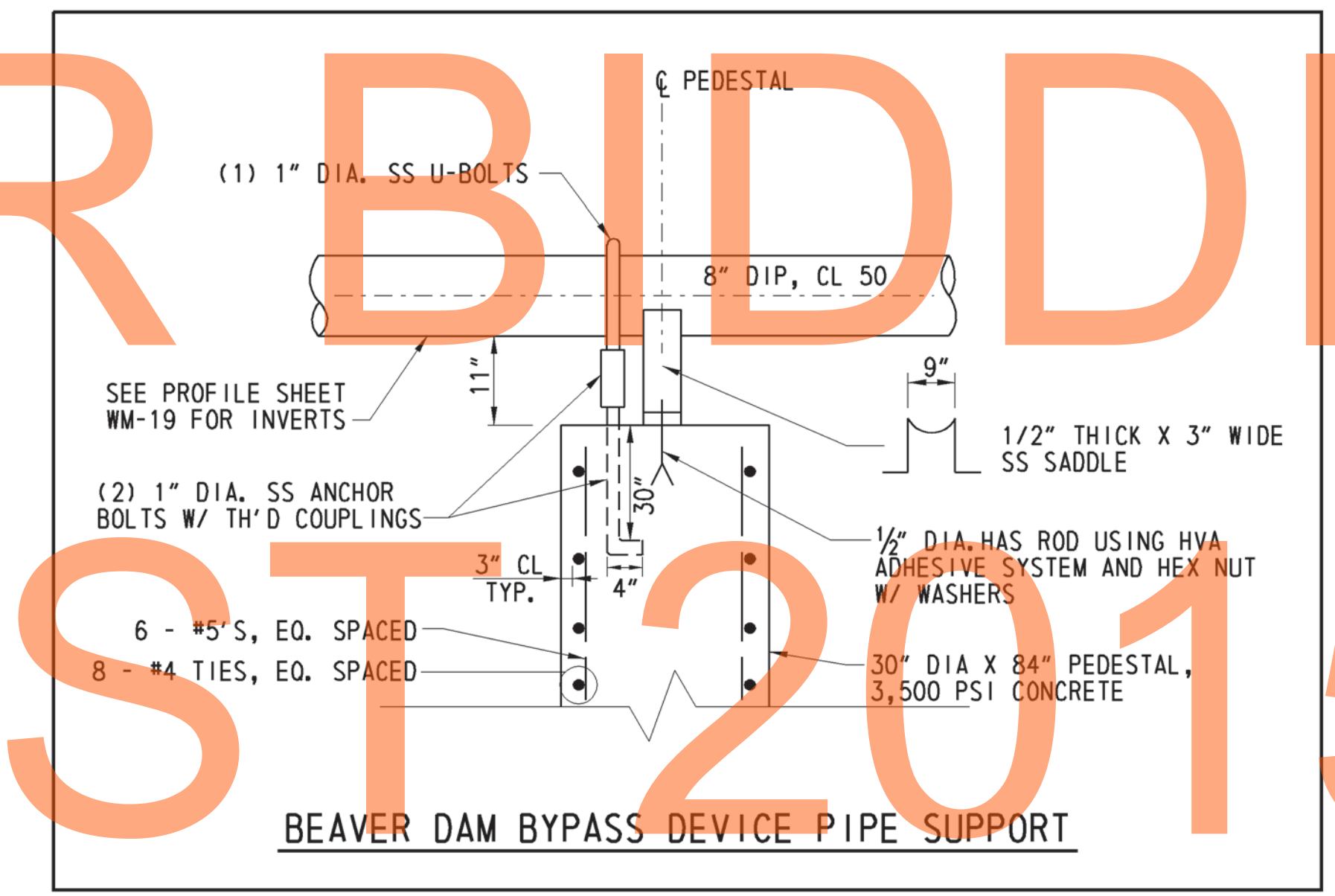
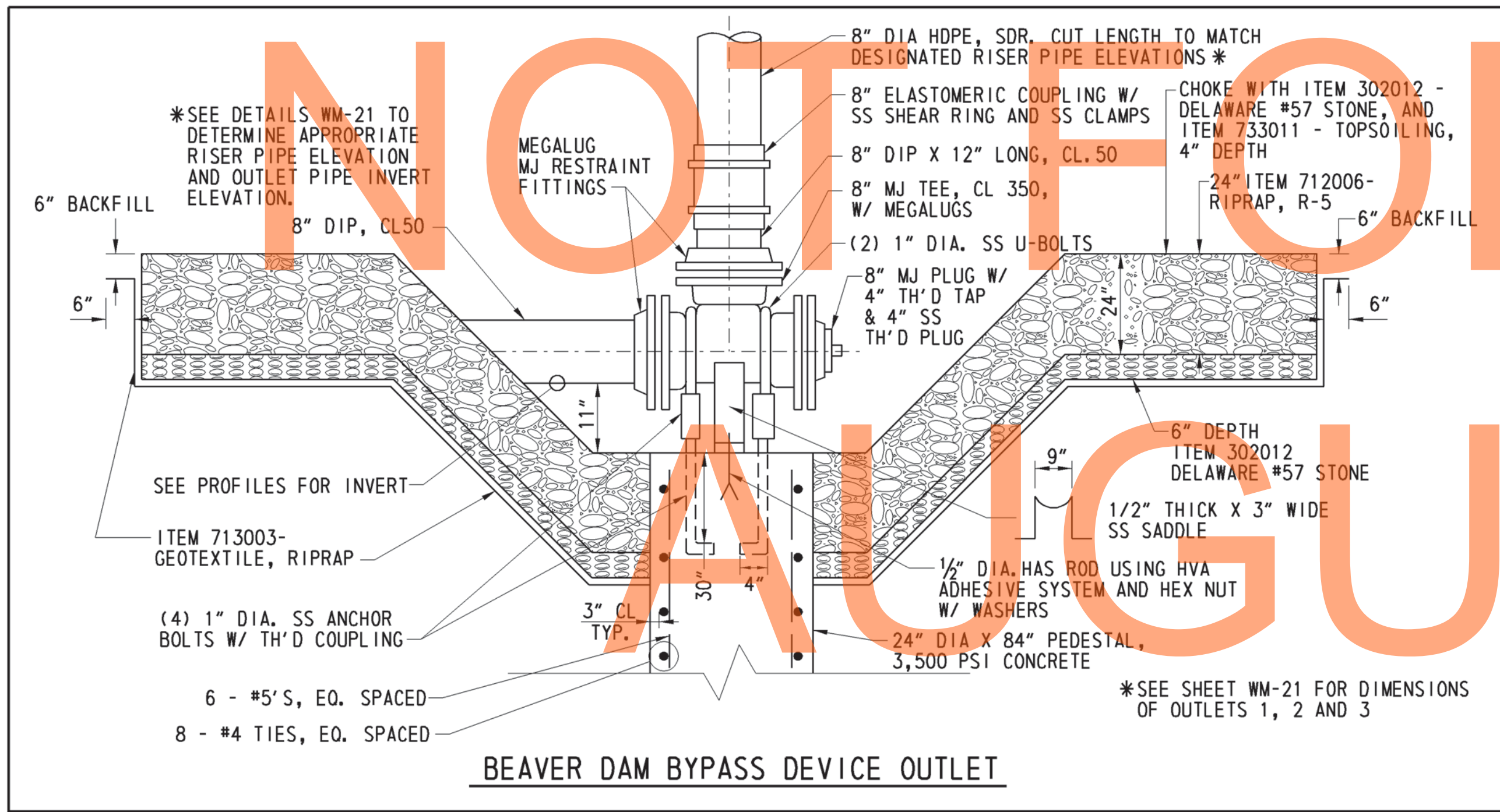
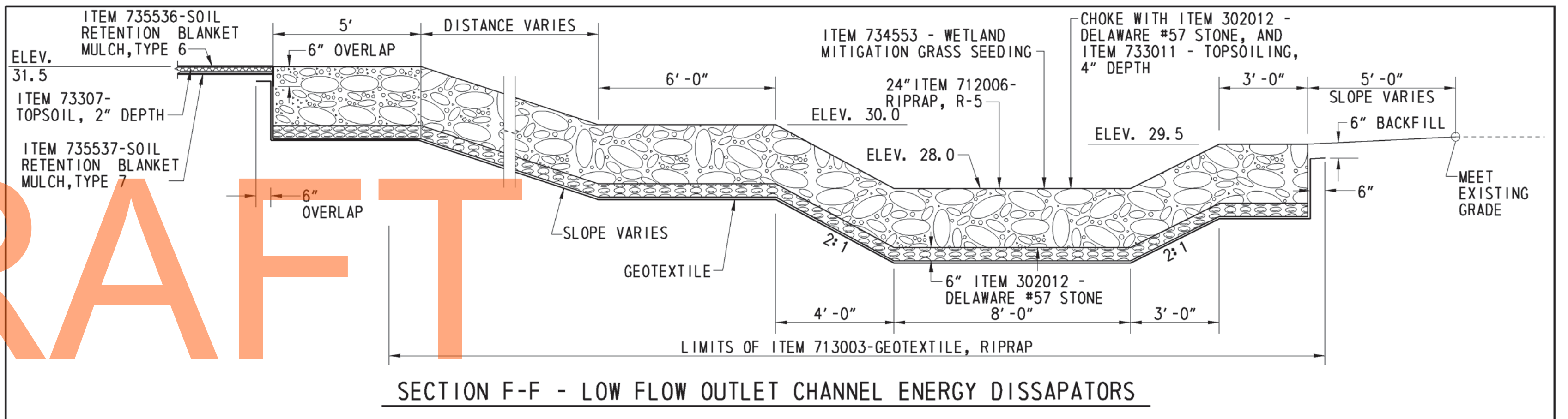
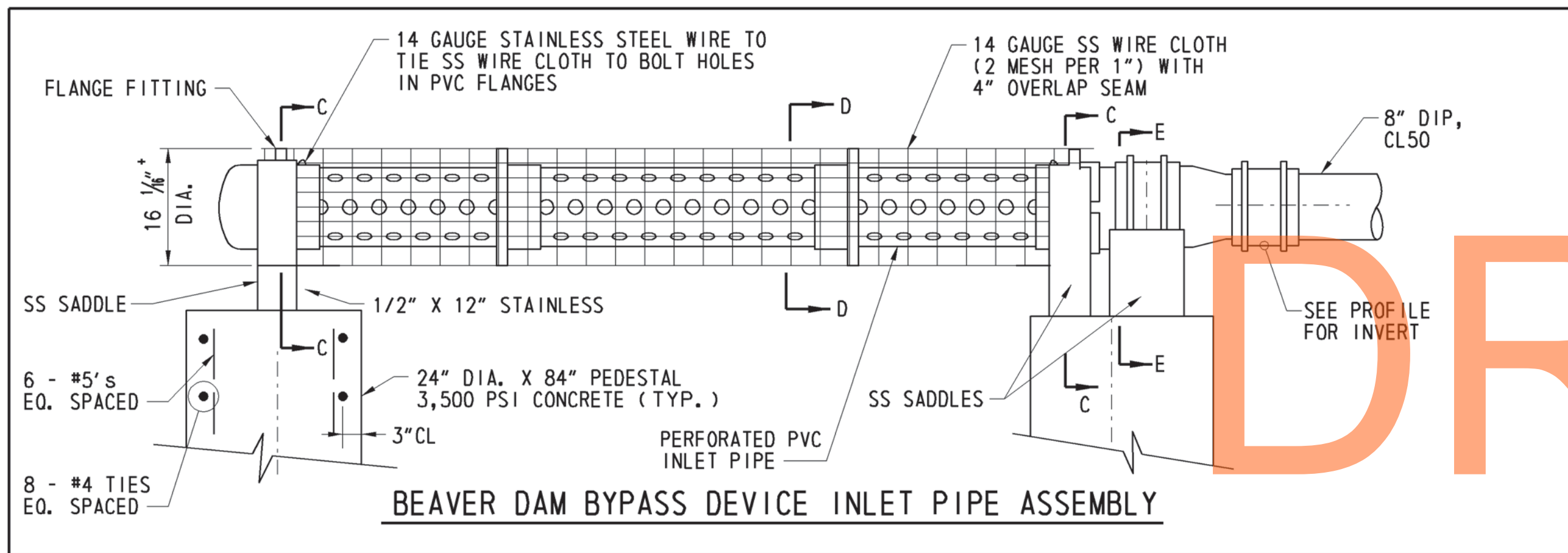
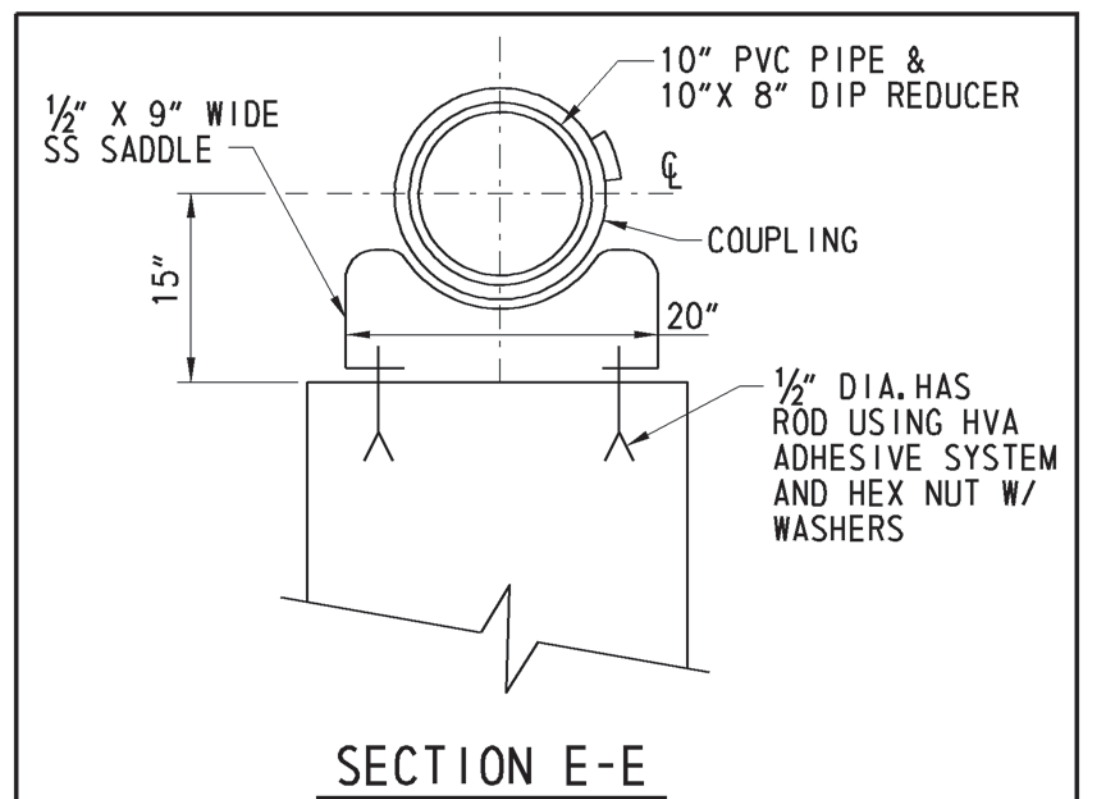
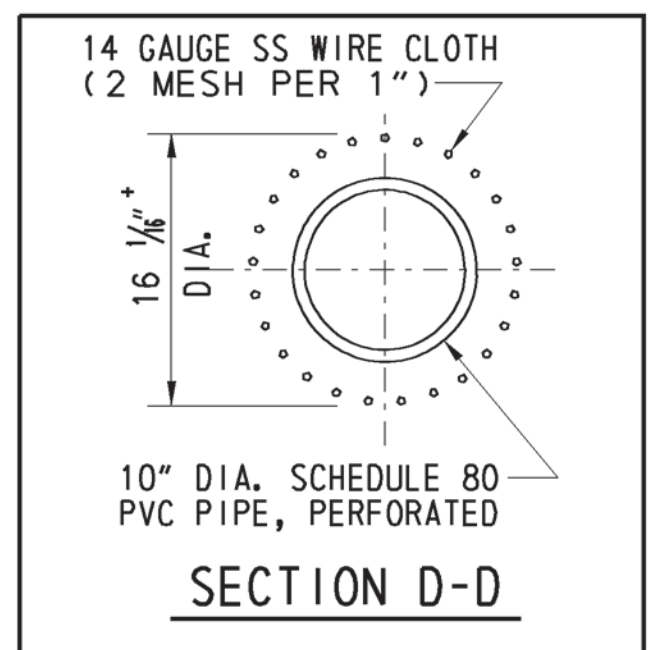
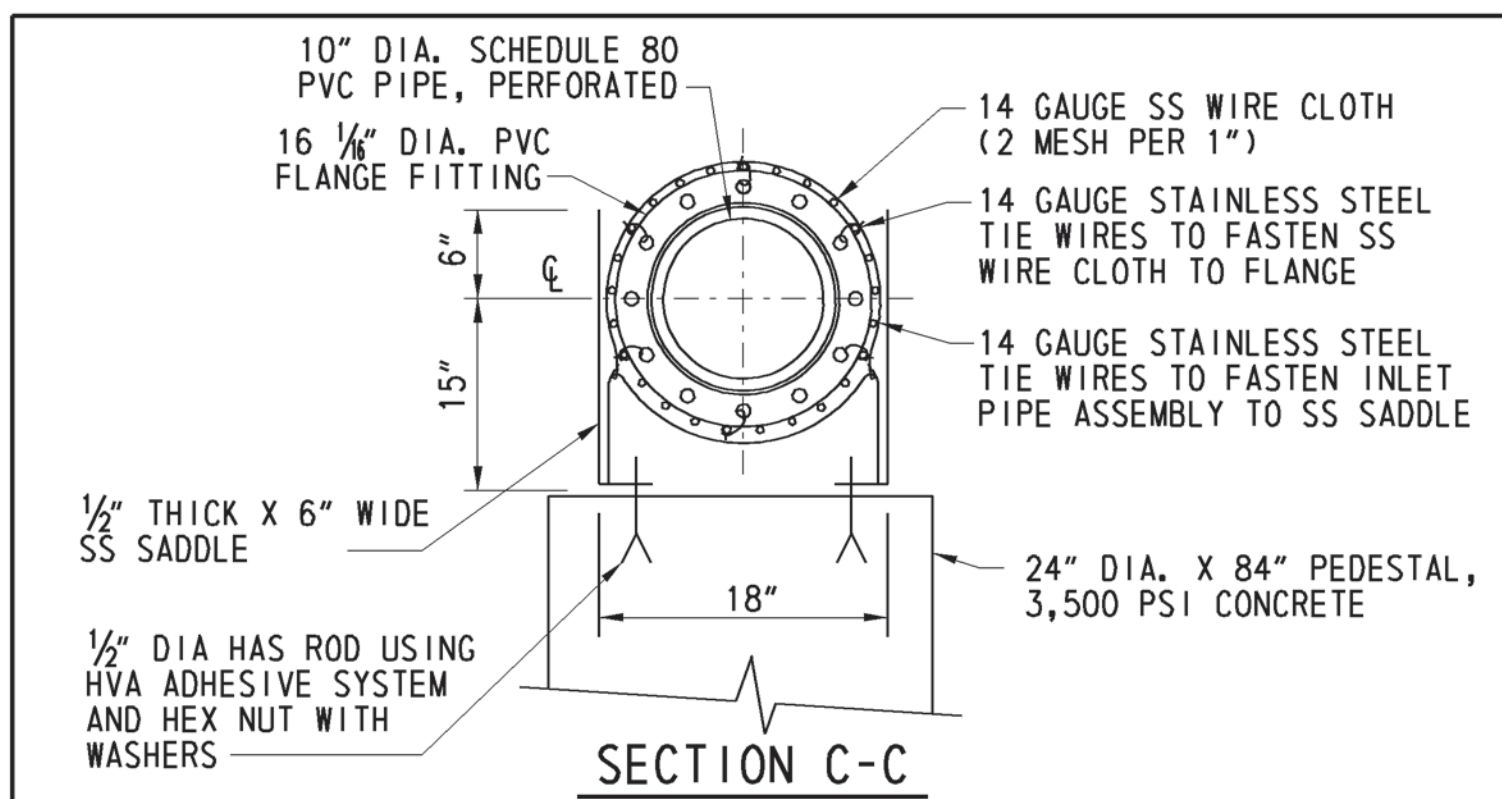
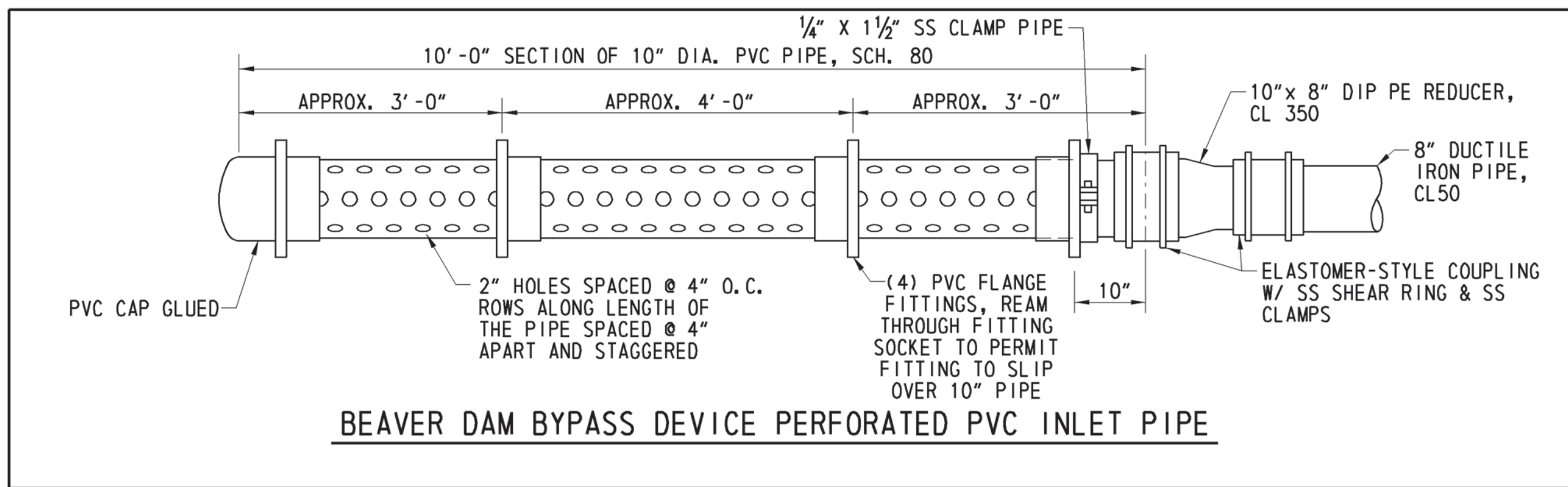
PROFILE - BEAVER DAM BYPASS DEVICE #3



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NOT FOR AUGUST 2015

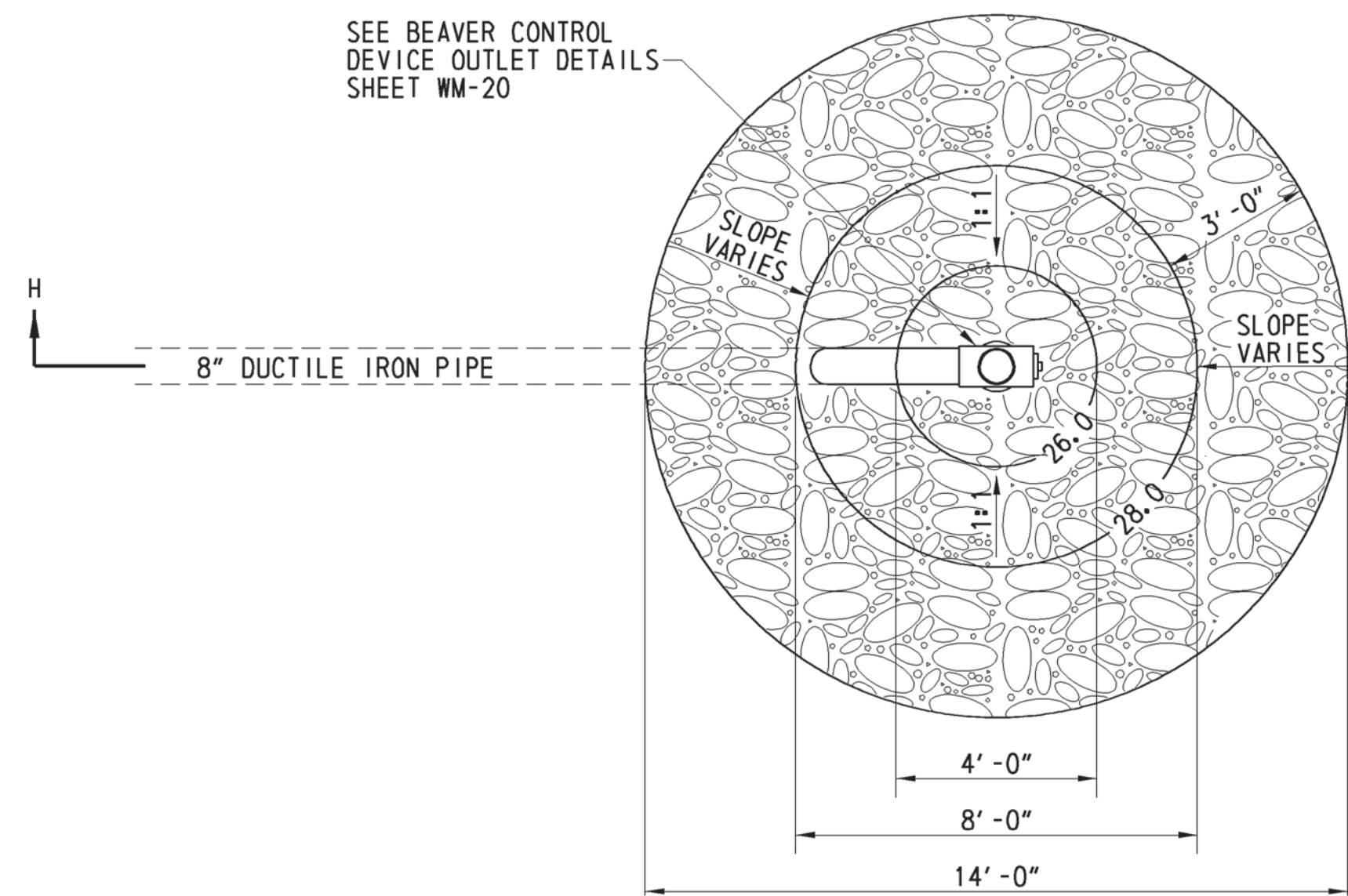
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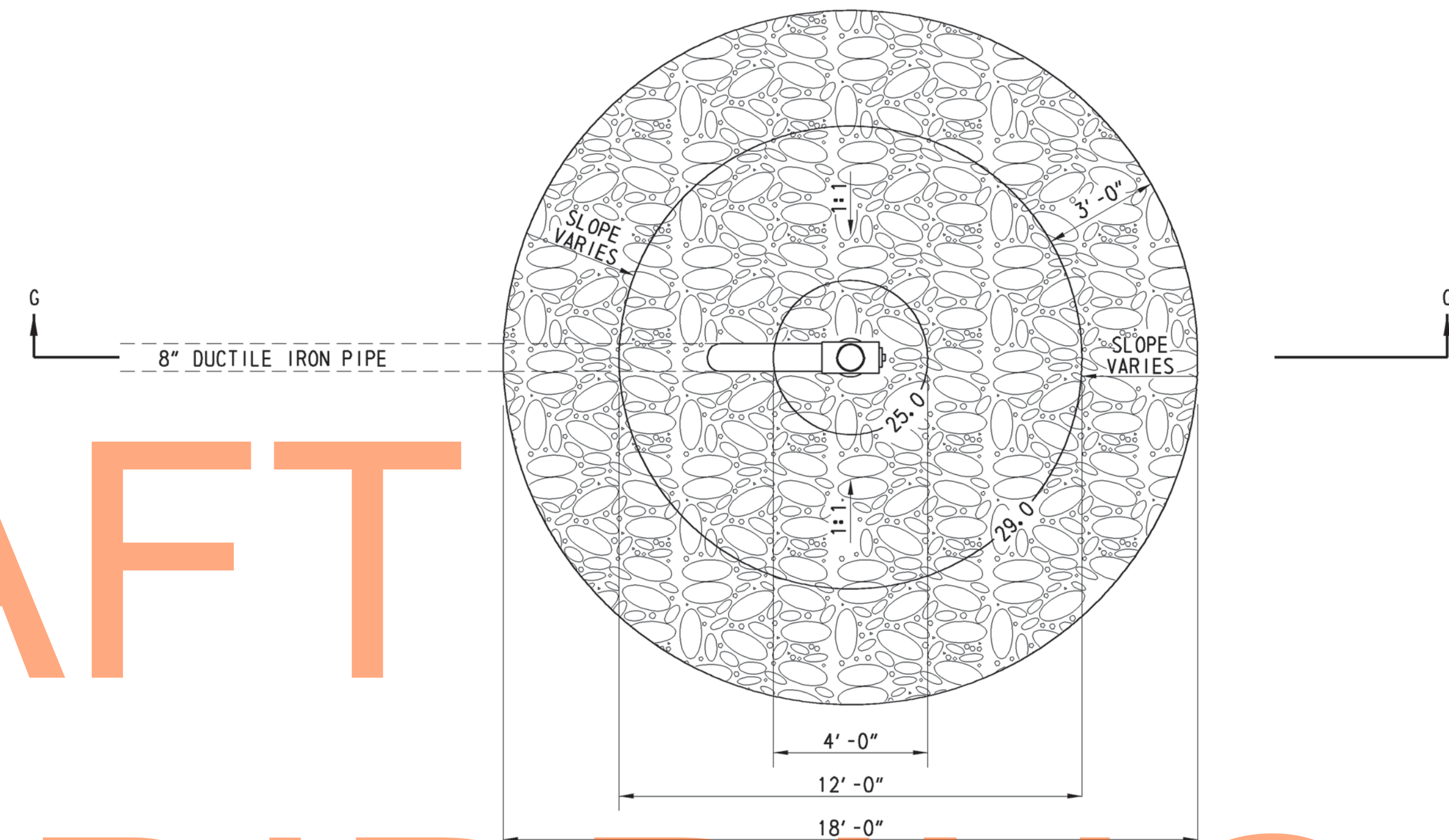
NOTE: ON THIS SHEET ALL STRUCTURES SHOWN WITHOUT A DESIGNATED ITEM NUMBER ARE PART OF ITEM 763654-BEAVER DAM BYPASS DEVICE.

SUBMIT SHOP DRAWINGS FOR ALL SADDLE FABRICATION

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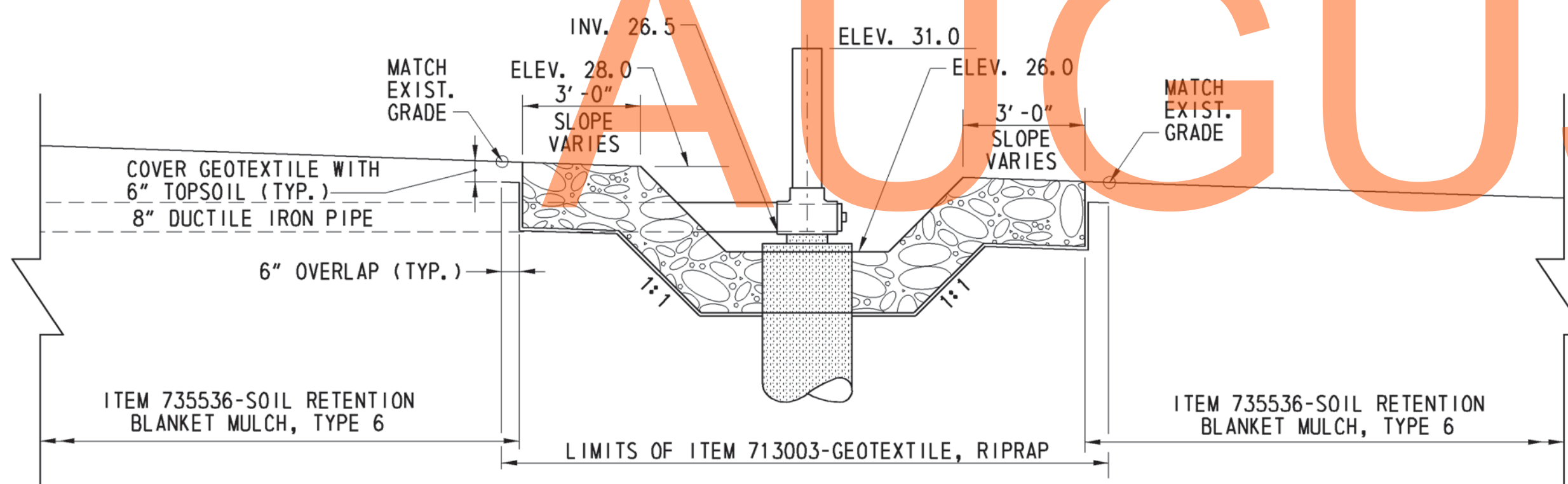
PLAN VIEW - BEAVER DAM BYPASS DEVICE OUTLETS 1 & 2



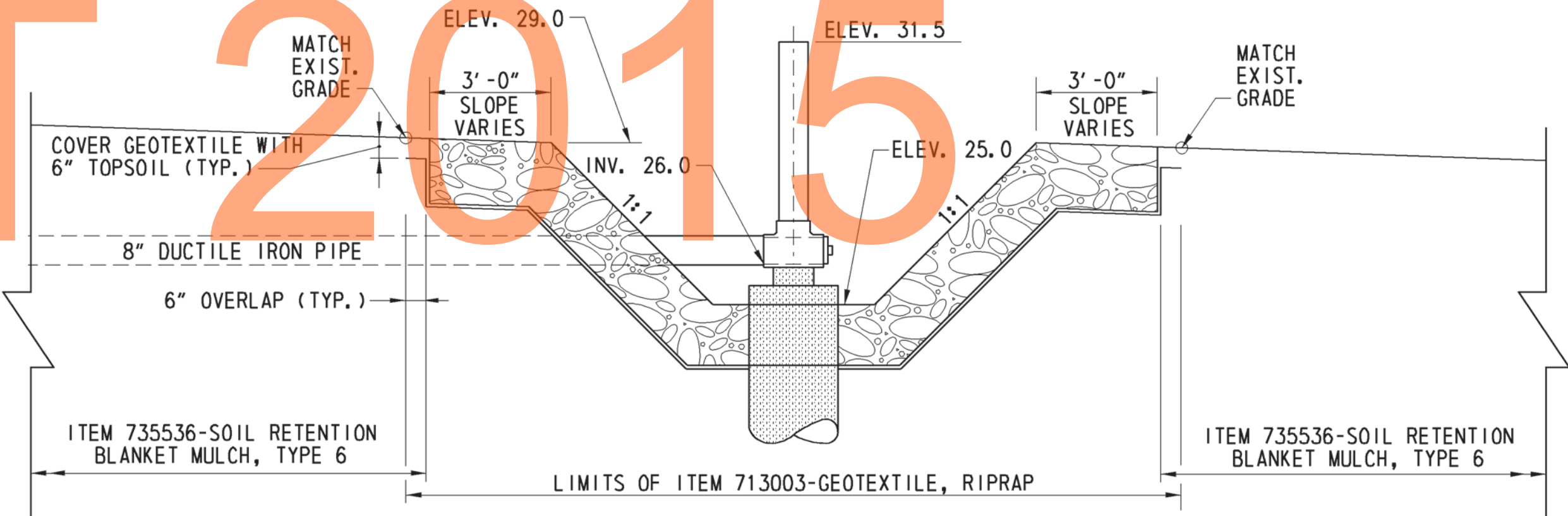
PLAN VIEW - BEAVER DAM BYPASS DEVICE OUTLET 3

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NOT FOR BIDDING
AUGUST 2015

NOTE: SEE SHEET WM-20 FOR STRUCTURE DETAILS



SECTION H-H - BEAVER DAM BYPASS DEVICE OUTLETS 1 & 2



SECTION G-G - BEAVER DAM BYPASS DEVICE OUTLET 3

NOTE: ON THIS SHEET ALL STRUCTURES SHOWN WITHOUT A DESIGNATED ITEM NUMBER ARE PART OF ITEM 763654-BEAVER DAM BYPASS DEVICE.

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ADDENDUMS / REVISIONS

NOT TO SCALE

US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

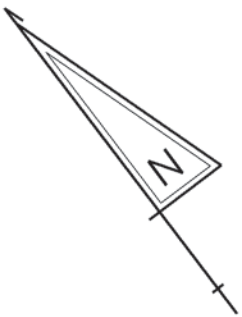
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

OUTLET DETAILS
BORROW SITE / WETLAND MITIGATION PLAN

WM-21
SHEET NO. 822
TOTAL SHTS. 1256

LEVELS ROAD CONTRACTOR PHASING NOTES

1. THE LEVELS ROAD BORROW/MITIGATION SITE SHALL SERVE AS A BORROW SOURCE FOR TWO CONTRACTS: T200811301-US 301, MARYLAND STATE LINE TO LEVELS ROAD; AND T200911303-US 301, LEVELS ROAD TO SUMMIT BRIDGE ROAD. CONTRACTOR ACCESS TO THE AREAS OF THE LEVELS ROAD BORROW/MITIGATION SITE SHOWN ON THIS PLAN IS AS FOLLOWS:
 - a. CONTRACT T200811301 SHALL HAVE ACCESS TO AREA 2 FROM NOTICE TO PROCEED FOR THE NUMBER OF CALENDAR DAYS SHOWN IN THE PROSPECTIVE BIDDERS NOTE IN THE BID PROPOSAL PACKAGE AFTER WHICH AREA 2 SHALL BE AVAILABLE TO CONTRACT T200911303.
 - b. CONTRACT T200811301 SHALL HAVE ACCESS TO AREA 3 FROM NOTICE TO PROCEED FOR THE NUMBER OF CALENDAR DAYS SHOWN IN THE PROSPECTIVE BIDDERS NOTE IN THE BID PROPOSAL PACKAGE AFTER WHICH AREA 3 SHALL BE AVAILABLE TO CONTRACT T200911303.
 - c. CONTRACT T200911303 SHALL ACCESS TO AREA 1 FROM NOTICE TO PROCEED UNTIL THE COMPLETION OF THAT CONTRACT.
2. CONTRACT T200811301 SHALL SCHEDULE AND STAGE WORK SUCH THAT AREA 2 AND AREA 3 SHALL BE STABILIZED AND VACATED BY THE TIME FRAMES IDENTIFIED IN THE PROSPECTIVE BIDDERS NOTE IN THE BID PROPOSAL PACKAGE. REFER TO THE PROSPECTIVE BIDDERS NOTE IN THE BID PROPOSAL PACKAGE FOR ADDITIONAL INFORMATION.
3. CONTRACT T200911303 SHALL SCHEDULE AND STAGE WORK SUCH THAT ACCESS TO AREA 2 AND AREA 3 IS NOT NECESSARY UNTIL THE AREAS BECOME AVAILABLE PER THE TIME FRAMES FOR CONTRACT T200811301 TO COMPLETE WORK IN THOSE AREAS.
4. EACH CONTRACTOR SHALL MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES FOR THE AREAS THEY OCCUPY PER ITEM 202572-BORROW AREA EROSION AND SEDIMENT CONTROL AND DEWATERING.
5. WITH APPROVAL OF THE ENGINEER, CONTRACT T200811301 MAY STABILIZE AND VACATE AN AREA PRIOR TO THE TIME FRAMES IDENTIFIED IN THE PROSPECTIVE BIDDERS NOTE IN THE BID PROPOSAL PACKAGE.



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AUGUST 2015

**BORROW SITE
CONSTRUCTION PHASING**



ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MRS
NEW CASTLE	CHECKED BY: JTR

**BORROW SITE /
WETLAND MITIGATION
PLAN**

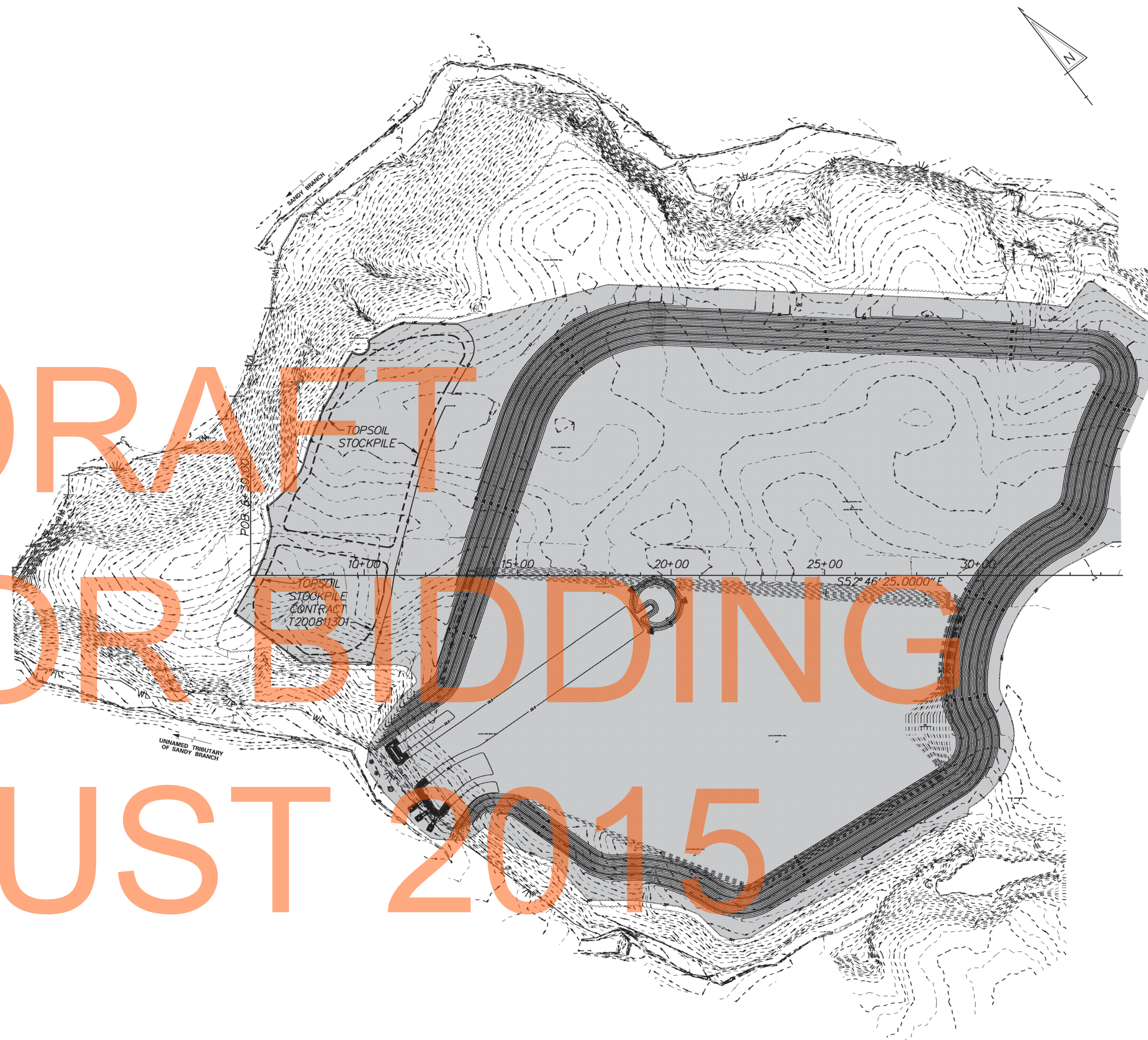
WM-22
SHEET NO.
823
TOTAL SHTS.
1256

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LEVELS ROAD BORROW AND MITIGATION CONSTRUCTION SEQUENCE

THE LEVELS ROAD SITE WILL BE UTILIZED AS A BORROW SOURCE BY BOTH CONTRACT T200811301 AND THIS CONTRACT. BOTH CONTRACTS WILL EXCAVATE BORROW MATERIAL SIMULTANEOUSLY, WITH THE AREA EXCAVATED UNDER CONTRACT T200811301 TURNED OVER TO THIS CONTRACT FOR THE FINAL EXCAVATION OF BORROW MATERIAL AND DEVELOPMENT OF THE SITE INTO THE MITIGATION WETLAND. THE PHASING OF THE EXCAVATION IS OUTLINED ON THE BORROW PHASING PLAN, WM-22.

1. INSTALL ITEM 727552 - RESOURCE PROTECTION FENCE IN ACCORDANCE WITH THE ENVIRONMENTAL COMPLIANCE PLANS.
2. INSTALL ALL DEWATERING AND SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH ITEM 202572 - BORROW AREA EROSION AND SEDIMENT CONTROL AND DEWATERING. E&S MEASURES WILL BE IMPLEMENTED TO ACCOMMODATE THE PHASING OF THE BORROW OPERATIONS.
3. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE APPROVED BY THE ENGINEER BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
4. ABANDON THE GROUNDWATER MONITORING WELLS AS INDICATED ON THE PLANS AND IN ACCORDANCE WITH DELDOT ITEM 211521 - ABANDONMENT OF WELLS.
5. CLEAR AND GRUB AS NECESSARY.
6. REMOVE THE UPPER 9 INCHES OF AGRICULTURAL SOIL FROM THE EXCAVATION AREA AND PLACE IN THE DESIGNATED TOPSOIL STOCKPILE AREA.
7. STAKE OUT ALL WETLAND DITCHES, PONDS AND STRUCTURES AS SHOWN ON THE PLANS.
8. EXCAVATE THE WETLAND DITCHES AND BEAVER DAM BYPASS DEVICE INLET PONDS.
9. INSTALL PIPES AND ALL STRUCTURES COMPRISING ITEM 763654 - BEAVER DAM BYPASS DEVICE, AND THE ENERGY DISSIPATORS ASSOCIATED WITH THE LOW FLOW OUTLET CHANNELS.
10. SECURE MILESTONE 1 AS-BUILT APPROVAL.
11. EXCAVATE TO SUBGRADE OF THE WETLAND WHICH IS 18 INCHES BELOW THE FINAL WETLAND GRADE, AND 6 INCHES BELOW THE SIDE SLOPE FINAL GRADE.
12. SECURE MILESTONE 2 AS-BUILT APPROVAL.
13. AMEND TOPSOIL WITH COMPOST AT THE RATE OF NINETEEN (19) PARTS TOPSOIL TO ONE (1) PART COMPOST PER ITEM 732505 - SOIL COMPOSTING.
14. PLACE ITEM 733008 - TOPSOILING, 18" DEPTH.
15. PLACE ITEM 733002 - TOPSOILING, 6" DEPTH.
16. EXCAVATE THE LOW-FLOW OUTLET CHANNELS AS INDICATED ON THE PLANS. THIS WORK WILL BE PAID FOR UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT. ITEM 735537 - SOIL RETENTION BLANKET MULCH, TYPE 7 SHALL BE INSTALLED IN THE LOW FLOW OUTLET CHANNELS IN ACCORDANCE WITH THE PLANS AND THE MANUFACTURER'S RECOMMENDATIONS, AND 2 INCHES OF STOCKPILED TOPSOIL WILL BE PLACED TO COVER THE TYPE 7 SOIL RETENTION BLANKET, IN ACCORDANCE WITH ITEM 733007 - TOPSOILING, 2" DEPTH.
17. SECURE MILESTONE 3 AS-BUILT APPROVAL.
18. UPON APPROVAL OF THE FINAL WETLAND GRADE AND LOW-FLOW OUTLET CHANNELS BY THE ENGINEER, THE CONTRACTOR SHALL SEED THE WETLAND BOTTOM AND SIDE SLOPES WHERE TOPSOIL HAS BEEN PLACED IN ACCORDANCE WITH THE LANDSCAPE PLAN WM-24.
19. ITEM 735536 - SOIL RETENTION BLANKET MULCH, TYPE 6 SHALL BE INSTALLED IN THE LOCATIONS INDICATED ON THE PLANS AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
20. BED THE SITE IN ACCORDANCE WITH THE PROVISIONS OF ITEM 737503- BEDDING FOR REFORESTATION AND THE FINAL BEDDING PLANS AND NOTES. BEDDING SHALL BE CONDUCTED UNDER DEWATERED CONDITION.
21. CONTRACTOR SHALL CEASE DEWATERING ACTIVITIES, DISMANTLE DEWATERING STRUCTURES AND RESTORE AREAS DISTURBED BY DEWATERING TO MATCH THE SURROUNDING GRADE OR MEET PROPOSED WETLAND GRADING AS DIRECTED BY THE ENGINEER. THESE DISTURBED AREAS SHALL BE SEEDED IN ACCORDANCE WITH THE LANDSCAPE PLAN WM-24.
22. THE CONTRACTOR SHALL TILL ALL THE NON-WOODED, DISTURBED UPLAND AREAS OUTSIDE OF THE WETLAND EXCEPT FOR THE SIDE SLOPES IN ACCORDANCE WITH ITEM 202555 - SUBSOIL TILLAGE. THESE AREAS WILL THEN BE SEEDED WITH ITEM 734551 - NATIVE GRASS SEEDING: NO-MOW MIX IN ACCORDANCE WITH THE LANDSCAPE PLAN.

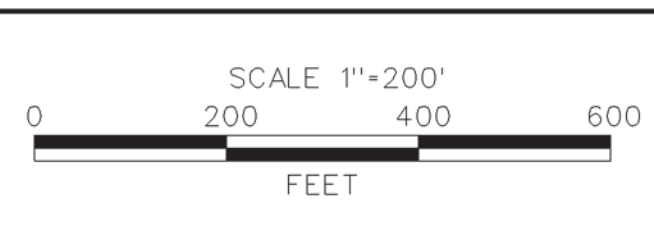


**CONSTRUCTION PHASING,
MOT AND EROSION CONTROL,
SEQUENCE OF CONSTRUCTION**

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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MRS
NEW CASTLE	CHECKED BY: JTR

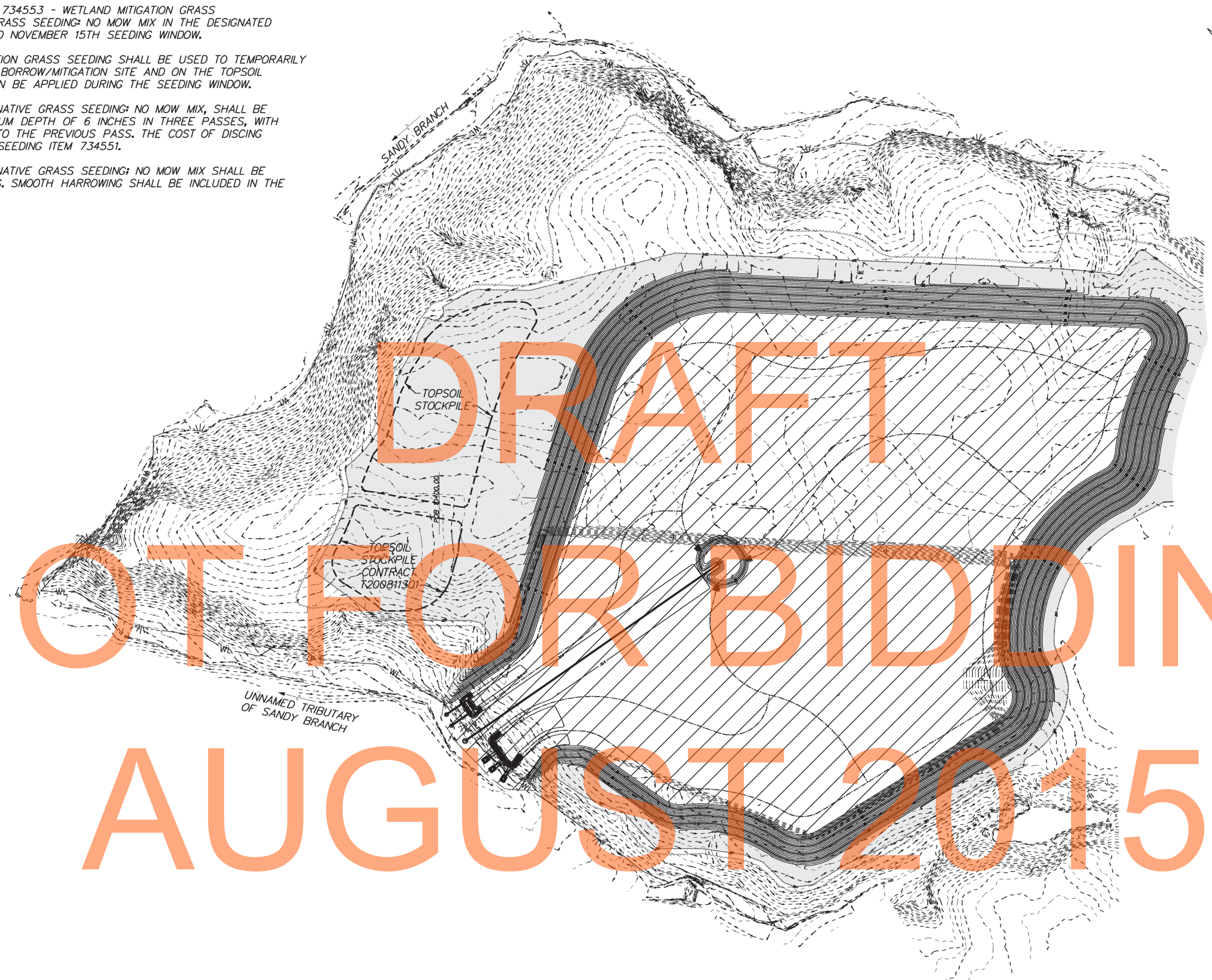
**BORROW SITE /
WETLAND MITIGATION
PLAN**

WM-23
SHEET NO.
824
TOTAL SHTS.
1256

SEEDING NOTES

1. THE CONTRACTOR SHALL INSTALL ITEM 734553 - WETLAND MITIGATION GRASS SEEDING AND ITEM 734551 - NATIVE GRASS SEEDING: NO MOW MIX IN THE DESIGNATED AREAS DURING THE SEPTEMBER 1ST TO NOVEMBER 15TH SEEDING WINDOW.
2. ONLY ITEM 734553 - WETLAND MITIGATION GRASS SEEDING SHALL BE USED TO TEMPORARILY STABILIZE DISTURBED GROUND IN THE BORROW/MITIGATION SITE AND ON THE TOPSOIL STOCKPILE UNTIL PERMANENT SEED CAN BE APPLIED DURING THE SEEDING WINDOW.
3. ALL AREAS RECEIVING ITEM 734551 - NATIVE GRASS SEEDING: NO MOW MIX, SHALL BE DISCED. DISCING SHALL BE TO A MINIMUM DEPTH OF 6 INCHES IN THREE PASSES, WITH EACH PASS AT A 90 DEGREE ANGLE TO THE PREVIOUS PASS. THE COST OF DISCING SHALL BE INCLUDED IN THE COST OF SEEDING ITEM 734551.
4. ALL AREAS RECEIVING ITEM 734551 - NATIVE GRASS SEEDING: NO MOW MIX SHALL BE SMOOTH HARROWED FOLLOWING DISCING. SMOOTH HARROWING SHALL BE INCLUDED IN THE COST OF ITEM 734551.

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AUGUST 2015



LEGEND

- WETLAND SEEDING - 60.5 AC (292,597 SY)
ITEM 734553 - WETLAND MITIGATION GRASS SEEDING
- UPLAND SEEDING - 42.5 AC (205,806 SY)
ITEM - 734551 - NATIVE GRASS SEEDING: NO MOW MIX
(UPLAND AREAS AND SIDE SLOPES DOWN TO ELEV. 32.0)

10/16/2012 3:21:37 PM \\RRKM\2008\2008\08013_DE301\CADD\2911303\PLANS\501_301DS2_000_RKK.DGN



ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

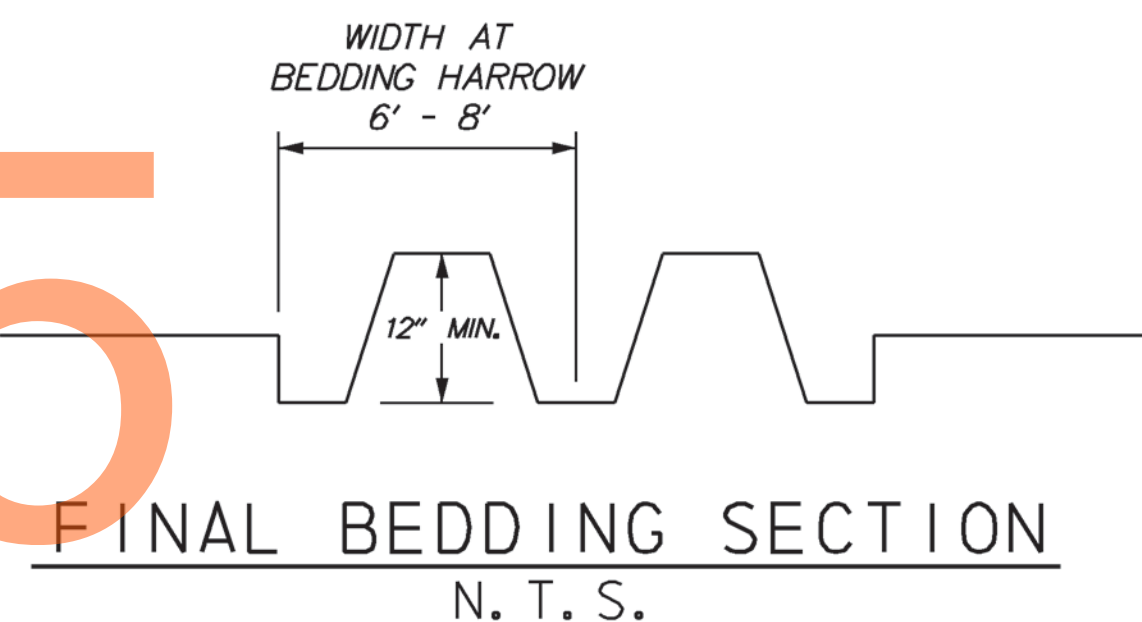
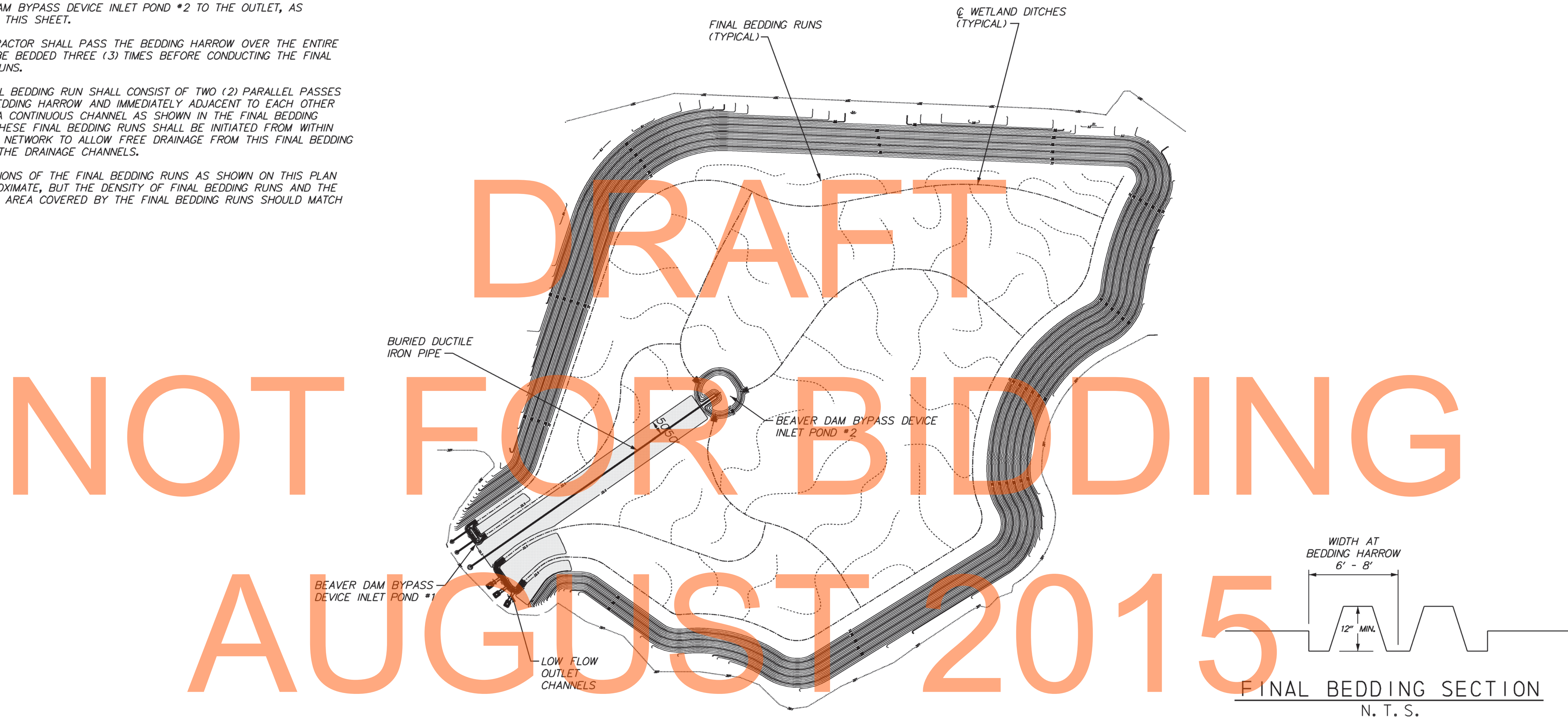
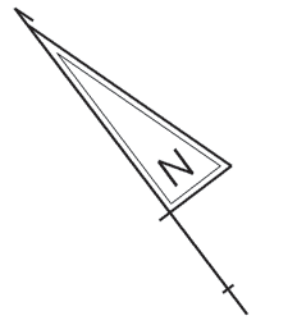
LANDSCAPE PLAN

**BORROW SITE /
WETLAND MITIGATION
PLAN**

WM-24
SHEET NO. 825
TOTAL SHTS. 1256

BEDDING NOTES

1. THE CONTRACTOR SHALL PERFORM BEDDING WITHIN TOE OF SLOPE AREA (ELEV. 32.0) IN ACCORDANCE WITH ITEM 737503 - BEDDING FOR REFORESTATION.
2. NO SUBSOIL TILLAGE OR BEDDING SHALL BE PERFORMED WITHIN APPROX. TWO HUNDRED FEET (200') OF THE BEAVER DAM BYPASS DEVICE INLET POND #1 AND LOW FLOW OUTLET CHANNELS, AS SHOWN ON THIS SHEET.
3. NO SUBSOIL TILLAGE OR BEDDING SHALL BE PERFORMED WITHIN APPROXIMATELY FIFTY FEET (50') OF THE BURIED PIPE RUN FROM BEAVER DAM BYPASS DEVICE INLET POND #2 TO THE OUTLET, AS SHOWN ON THIS SHEET.
4. THE CONTRACTOR SHALL PASS THE BEDDING HARROW OVER THE ENTIRE AREA TO BE BEDDED THREE (3) TIMES BEFORE CONDUCTING THE FINAL BEDDING RUNS.
5. EACH FINAL BEDDING RUN SHALL CONSIST OF TWO (2) PARALLEL PASSES OF THE BEDDING HARROW AND IMMEDIATELY ADJACENT TO EACH OTHER TO FORM A CONTINUOUS CHANNEL AS SHOWN IN THE FINAL BEDDING SECTION. THESE FINAL BEDDING RUNS SHALL BE INITIATED FROM WITHIN THE DITCH NETWORK TO ALLOW FREE DRAINAGE FROM THIS FINAL BEDDING RUN INTO THE DRAINAGE CHANNELS.
6. THE LOCATIONS OF THE FINAL BEDDING RUNS AS SHOWN ON THIS PLAN ARE APPROXIMATE, BUT THE DENSITY OF FINAL BEDDING RUNS AND THE EXTENT OF AREA COVERED BY THE FINAL BEDDING RUNS SHOULD MATCH PLAN.

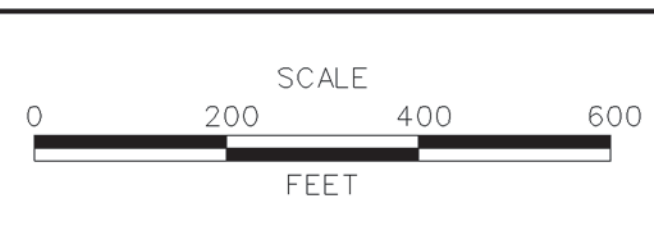


LEGEND	
	NO BEDDING FOR REFORESTATION OR SUBSOIL TILAGE IN THIS AREA

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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MRS
	CHECKED BY: JTR

**BEDDING FOR
REFORESTATION PLAN**

**BORROW SITE /
WETLAND MITIGATION
PLAN**

WM-25
SHEET NO. 826
TOTAL SHTS. 1256