

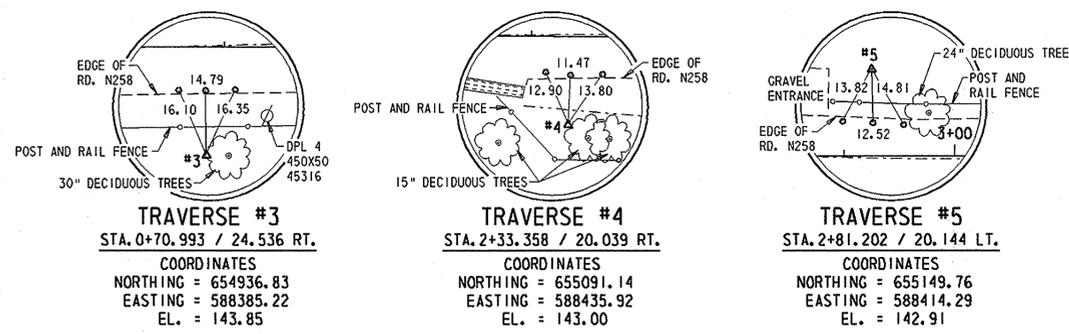
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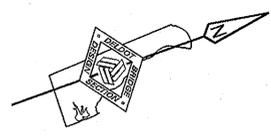
CONTRACT	COUNTY	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHTS.
25-074-01	NEW CASTLE	EBHN-N258(2)	4	13

BRIDGE 118 ON N258, BARLEY MILL ROAD OVER RED CLAY CREEK, ASHLAND

REVISIONS



COORDINATES AND ELEVATIONS WERE ESTABLISHED BY DELDOT GPS. THE CONTROL MONUMENTS SET UP BY DELDOT IS APO1. IT IS BASED ON HORIZONTAL DATUM NAD 83 AND VERTICAL DATUM NAVD 1988. ALL SURVEY DATA - DISTANCE, COORDINATES AND ELEVATIONS ARE IN FEET.



PROPOSED PAVEMENT LEGEND

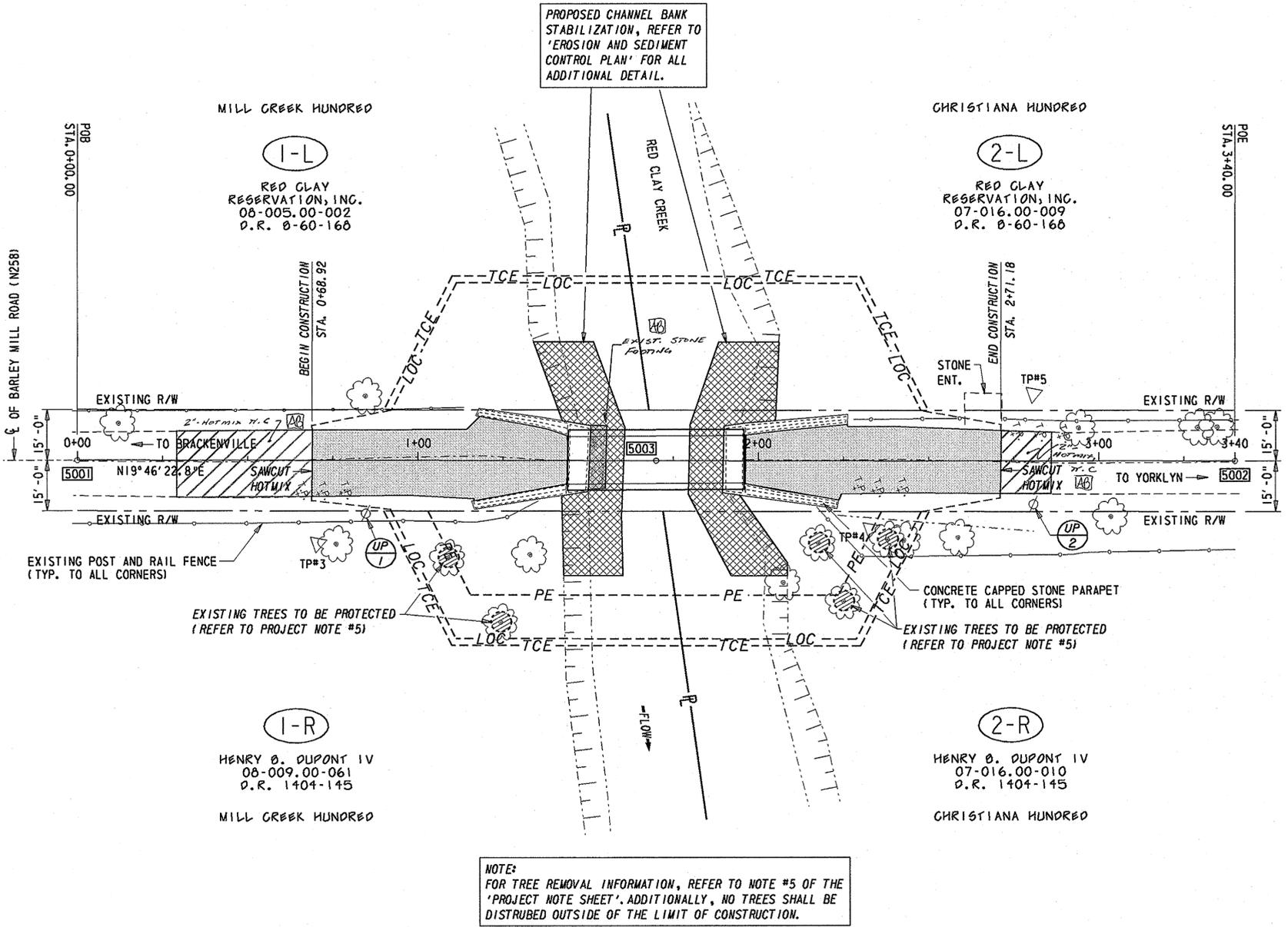
	MILL EXISTING PAVEMENT, 2" DEPTH PLACE 2" SUPERPAVE, TYPE 'C' HOTMIX
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UTILITY POLE LEGEND

POLE	DESCRIPTION
UP1	DPL 4 450X50 45316
UP2	DPL 45556 45335 3

BARLEY MILL ROAD BASELINE

PT.	STATION	OFFSET	NORTHING	EASTING
5001	0+00.000	0.000	654878.32	588338.12
5002	3+40.000	0.000	655198.27	599453.14
5003	1+70.000	0.000	655038.30	588395.63



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 CADD DESIGN J.B. DESIGN CHKD.

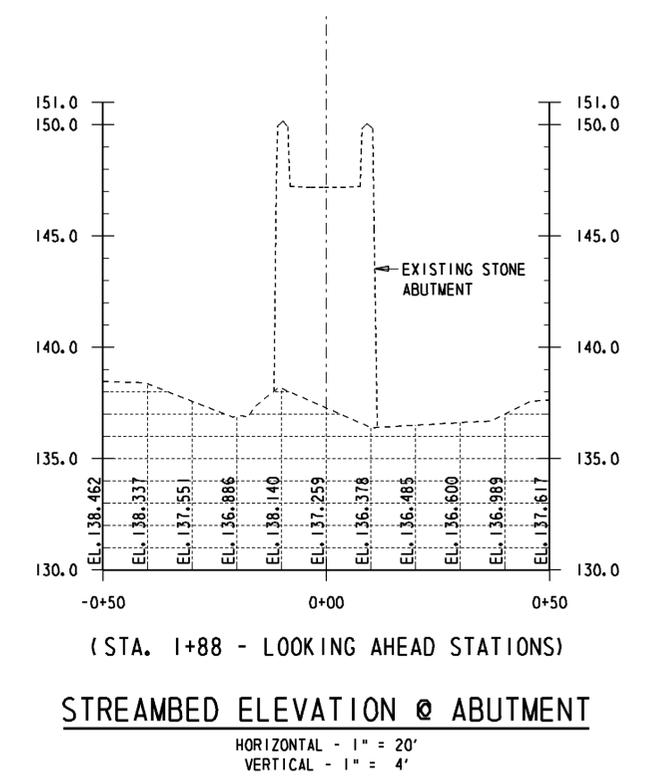
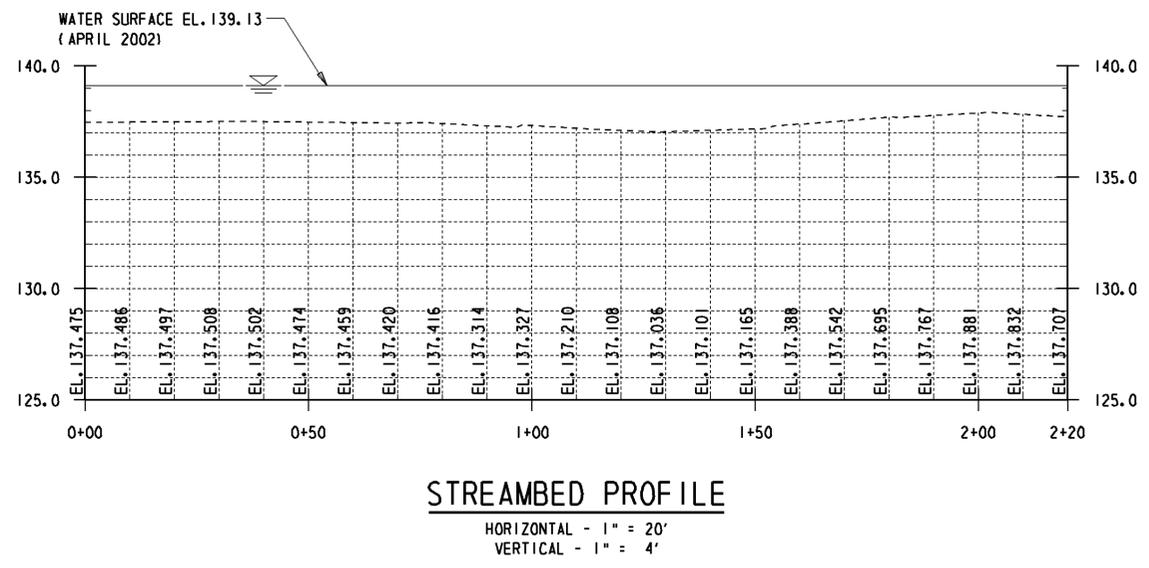
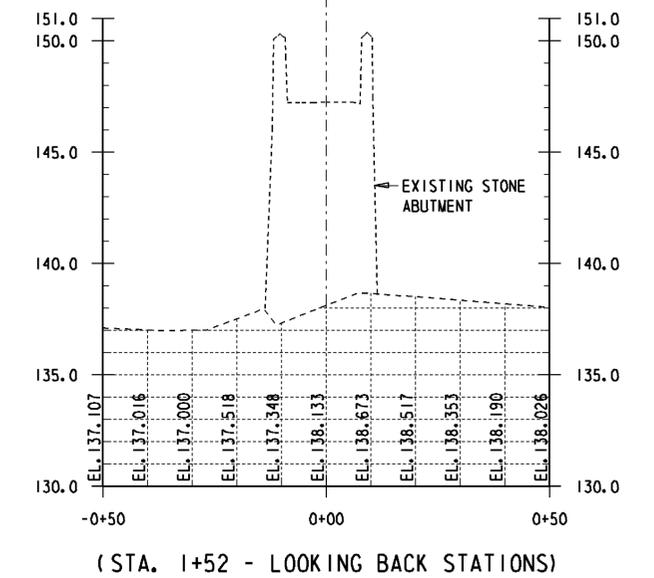
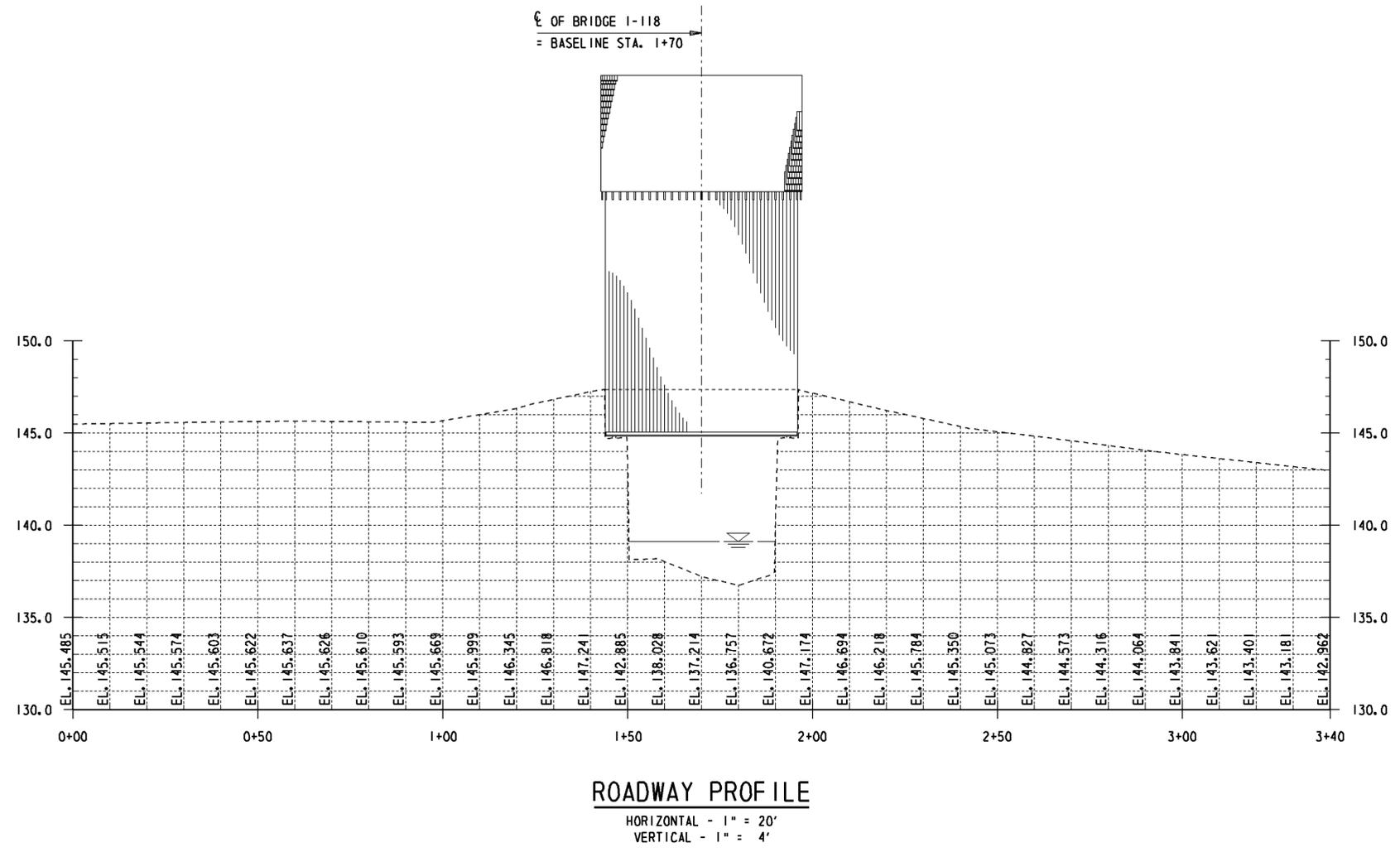
6/18/2007 25-074-01

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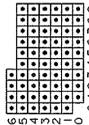
CONTRACT	COUNTY	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHTS.
25-074-01	NEW CASTLE	EBHN-N258(2)	5	13

BRIDGE 118 ON N258, BARLEY MILL ROAD OVER RED CLAY CREEK, ASHLAND

REVISIONS	



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 CHKD: _____



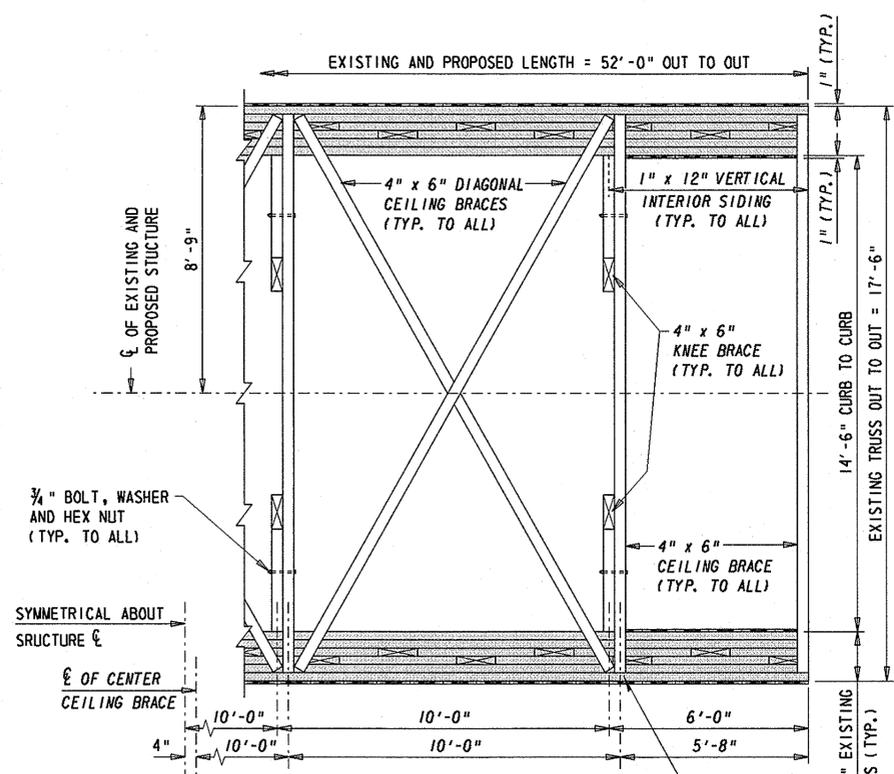
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CONTRACT	COUNTY	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHTS.
25-074-01	NEW CASTLE	EBHN-N258(2)	6	13

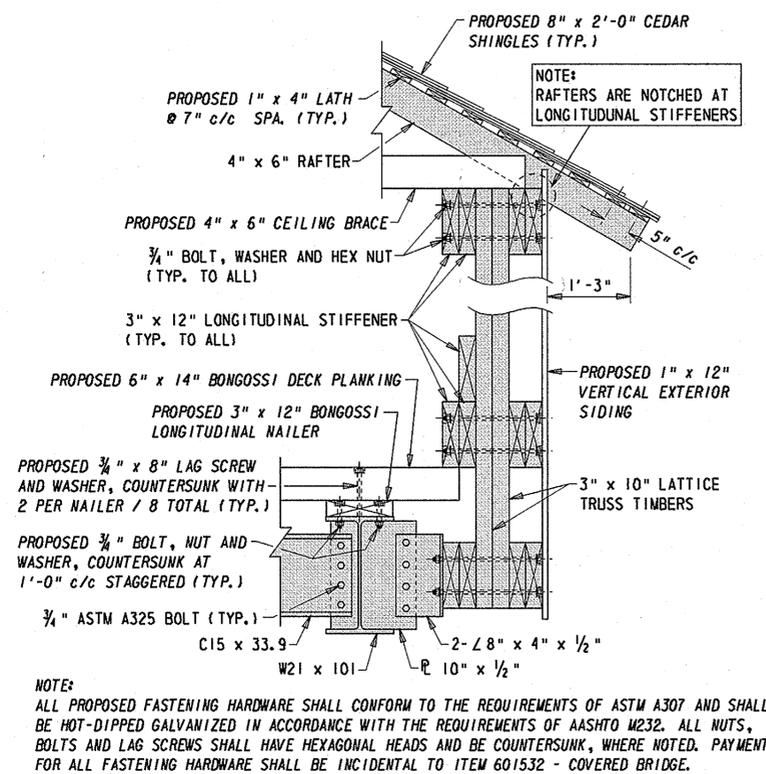
BRIDGE 118 ON N258, BARLEY MILL ROAD OVER RED CLAY CREEK, ASHLAND

REVISIONS	

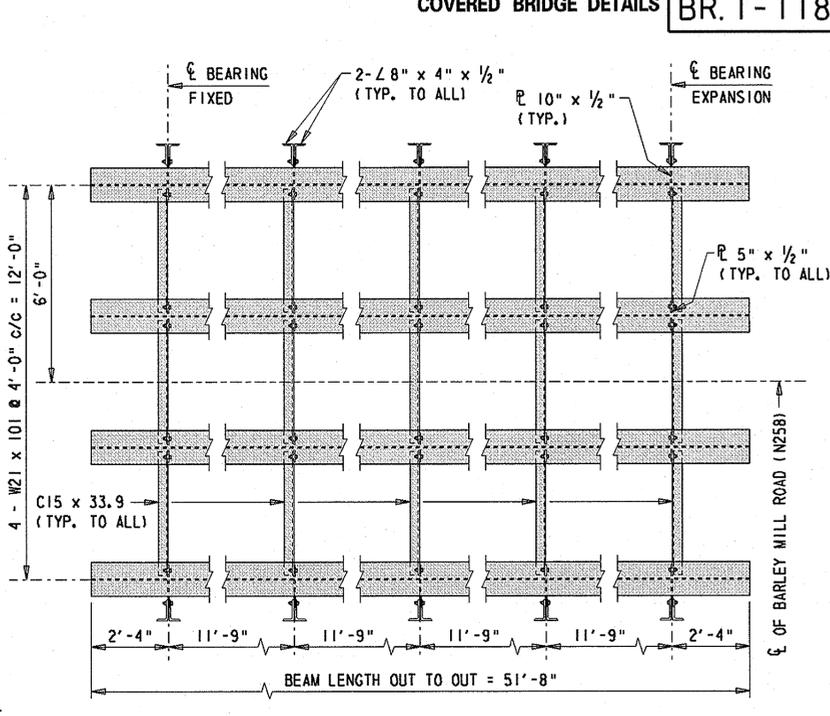
- NOTES:
1. SHADED AREAS ON ALL DETAILS REPRESENT THE EXISTING BRIDGE COMPONENTS THAT SHALL REMAIN IN PLACE.
 2. ALL EXISTING AND PROPOSED TIMBER DIMENSIONS SHOWN ARE NOMINAL SIZE.
 3. ALL ITALICIZED TEXT INDICATES PROPOSED WORK.



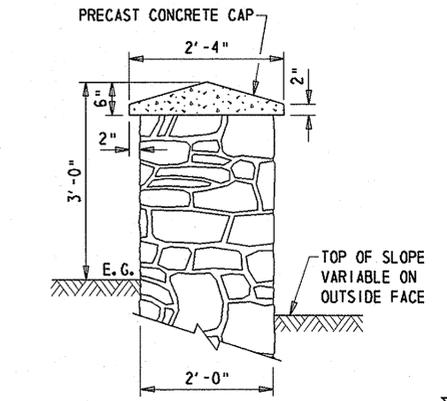
PARTIAL CEILING PLAN



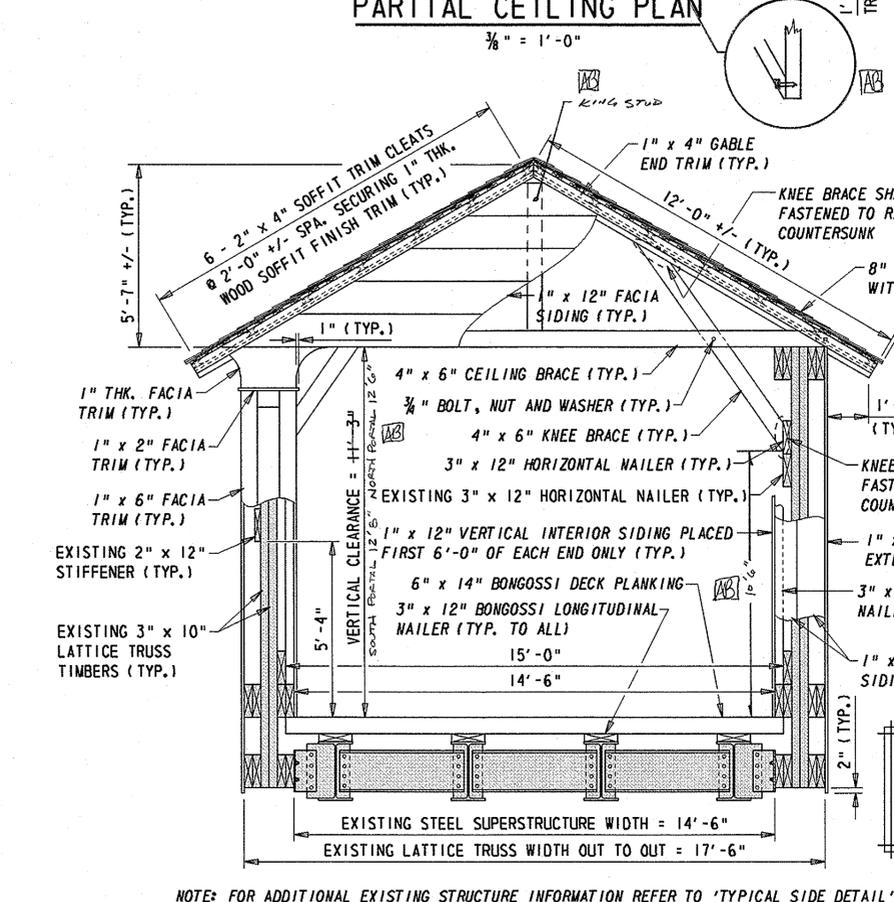
TYPICAL SIDE DETAIL



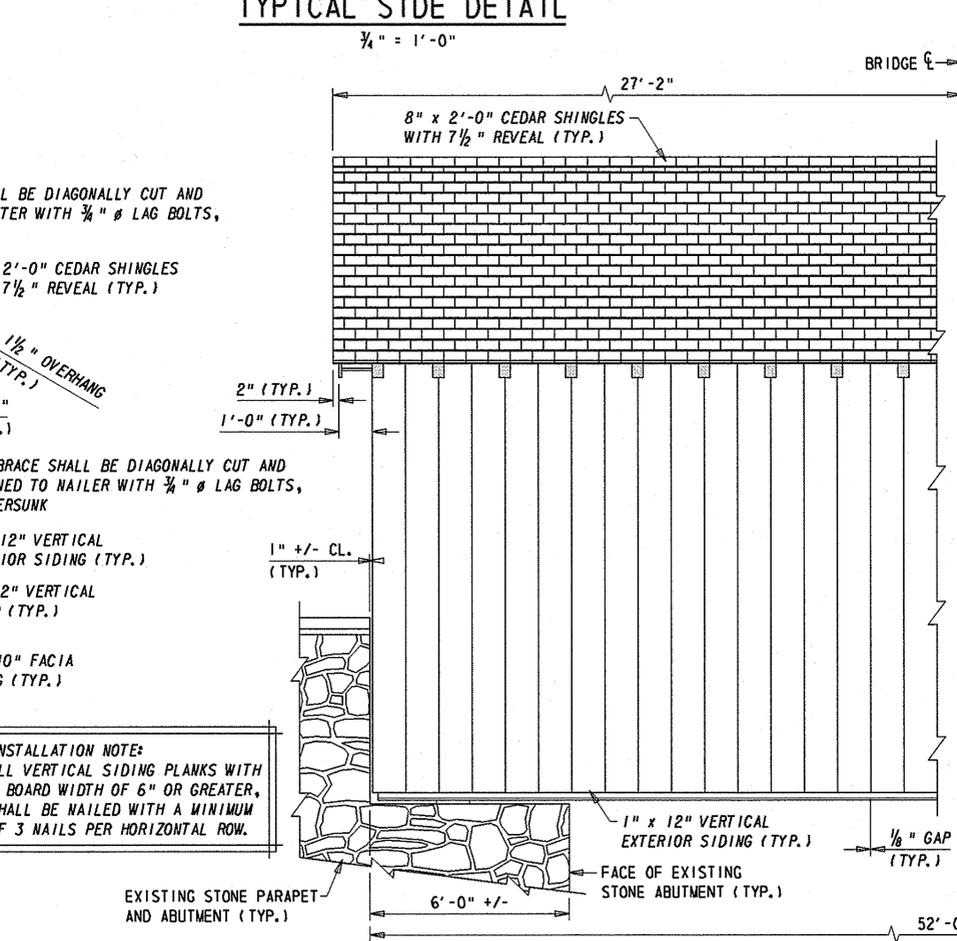
EXISTING BEAM FRAMING PLAN



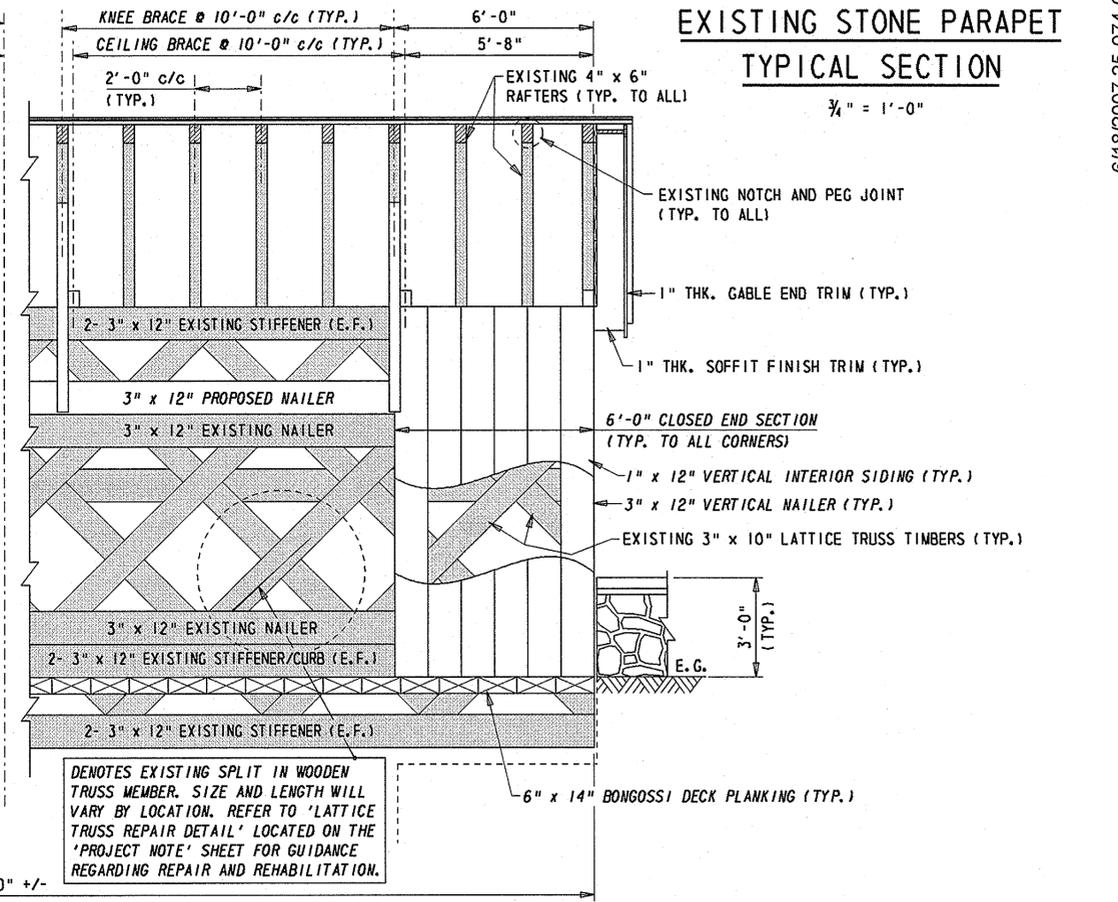
EXISTING STONE PARAPET TYPICAL SECTION



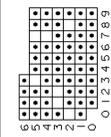
TYPICAL BRIDGE SECTION



ELEVATION - HALF SECTIONS



6/18/2007 25-074-01



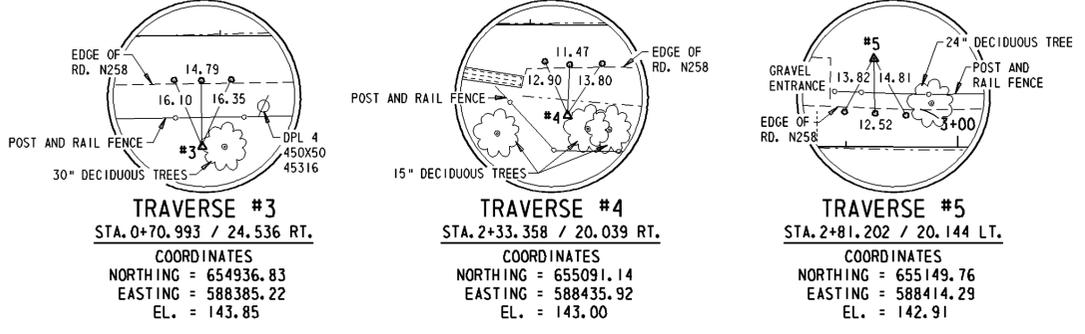
BRIDGE 118 ON N258, BARLEY MILL ROAD OVER RED CLAY CREEK, ASHLAND

REVISIONS	

SEQUENCE OF CONSTRUCTION

1. DEFINE L.O.C. PERIMETER AND INSTALL SILT FENCE (ITEM 251000).
2. THE EXISTING CHANNEL BOTTOM IS STONE LADEN AND MAY HAVE LARGER STONE OUTCROPPINGS. THE CONTRACTOR IS DIRECTED THAT IN THE CHANNEL AREAS THAT ARE SPECIFIED FOR PERMANENT STABILIZATION MEASURES, PRIOR TO THE PROPOSED MEASURES PLACEMENT, ALL STONES WITH AN AVERAGE DIAMETER OF 12" OR LESS SHALL BE REMOVED AND ANY STONE WHICH HAS AN AVERAGE DIAMETER GREATER THAN 12", MAY BE REMOVED AT THE CONTRACTOR'S DISCRETION. PAYMENT INCLUDED UNDER ITEM 712007 - RIPRAP, R-6. ADDITIONALLY, DURING THE PLACEMENT OF THE SANDBAG DIVERSION, ANY STONES THAT CONFLICT WITH THIS OPERATION MAY BE DISPLACED, IF CONDITIONS WARRANT AND AT THE DISCRETION OF THE ENGINEER IN THE FIELD. PAYMENT INCIDENTAL TO ITEM 266001 - SANDBAG DIVERSIONS.
3. CONSTRUCT THE SANDBAG DIVERSION (ITEM 266001) FOR THE STAGE CHOSEN, 4 FEET HIGH OR TO THE TOP OF STREAM BANK, WHICHEVER IS LOWER. CONNECT THE SILT FENCE TO THE SANDBAG DIVERSION TO COMPLETELY ENCLOSE THE WORK AREA. THE STAGE SHOWN ON THE PLAN IS FOR THE SOUTHWEST ABUTMENT AND ADJACENT SLOPE WORK. THE NORTHEAST ABUTMENT DIVERSION IS A MIRROR IMAGE OF THE ONE SHOWN. THE CHOICE OF WHICH ABUTMENT TO START WITH IS AT THE DISCRETION OF THE CONTRACTOR.
4. FOR THE ENCLOSED WORK AREA, INSTALL SUMP PIT, TYPE I (ITEM 263000) AND A PORTABLE SEDIMENT TANK (ITEM 270000) AS A SEDIMENT TRAPPING DEVICE. DEWATER THE WORK AREA IN ACCORDANCE WITH SECTION 110.13 OF DELDOT STANDARD SPECIFICATIONS, DISCHARGING CLEAN EFFLUENT FROM DIRECTLY INTO THE WATERCOURSE AT A LOCATION WITH SUITABLE DEPTH TO PREVENT DISTURBANCE OF EXISTING STREAMBED. IF A STABILIZED OUTFALL IS REQUIRED, IT SHALL BE PER THE ENGINEER'S DIRECTION. PAYMENT FOR DEWATERING SHALL BE INCIDENTAL TO ITEM 266001 - SANDBAG DIVERSION.
5. PERFORM ALL STRUCTURE-RELATED WORK FOR THIS STAGE AS NECESSARY UNDER PARTIAL STREAM CLOSURE. CLEAR THE WORK AREA IN THE STREAM OF UNNECESSARY CONSTRUCTION ITEMS AT THE END OF EACH WORKDAY AS THE STREAM IS SUBJECT TO NEAR BANKFUL FLOW MORE OFTEN THAN IN THE PAST.
6. PERFORM ALL CHANNEL AND SLOPE STABILIZATION WORK FOR THIS STAGE AS NECESSARY UNDER PARTIAL STREAM CLOSURE.
7. ONCE ALL WORK FOR THIS STAGE, THAT REQUIRES THE STREAM DIVERSION, IS COMPLETE AND THE CHANNEL IS STABILIZED, RELOCATE THE SANDBAG DIVERSION AS NECESSARY TO COMPLETE THE OPPOSITE ABUTMENT AND SLOPE WORK. REPEAT STEPS 2 THROUGH 5 AS NOTED ABOVE FOR THIS NEW STAGE.
8. ONCE ALL WORK REQUIRING THE STREAM DIVERSION AND ALL INVASIVE STREAM ACCESS IS COMPLETE, REMOVE ALL TEMPORARY DIVERSION MEASURES FROM THE STREAM AND RESTORE FULL WIDTH FLOW UNDER THE STRUCTURE.
9. COMPLETE ALL REMAINING WORK ASSOCIATED WITH THIS CONTRACT.
10. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES WHEN THEY ARE NO LONGER NEEDED. STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THESE PLANS AND AS DIRECTED BY THE ENGINEER.

COORDINATES AND ELEVATIONS WERE ESTABLISHED BY DELDOT GPS. THE CONTROL MONUMENTS SET UP BY DELDOT IS APO1. IT IS BASED ON HORIZONTAL DATUM NAD 83 AND VERTICAL DATUM NAVD 1988. ALL SURVEY DATA - DISTANCE, COORDINATES AND ELEVATIONS ARE IN FEET.



PROPOSED PAVEMENT LEGEND

	MILL EXISTING PAVEMENT, 2" DEPTH PLACE 2" SUPERPAVE, TYPE 'C' HOTMIX
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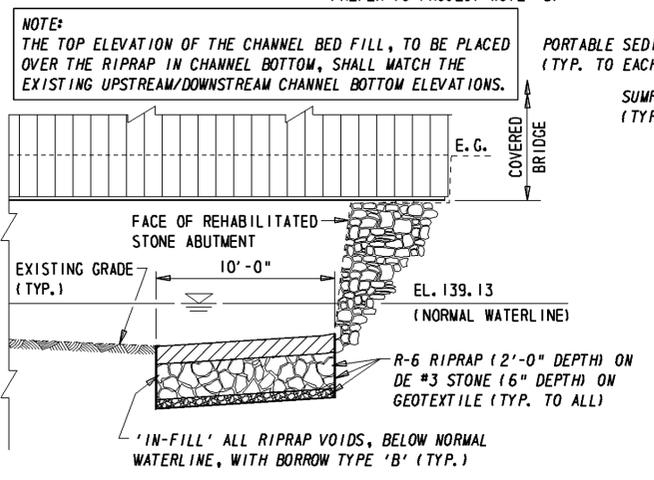
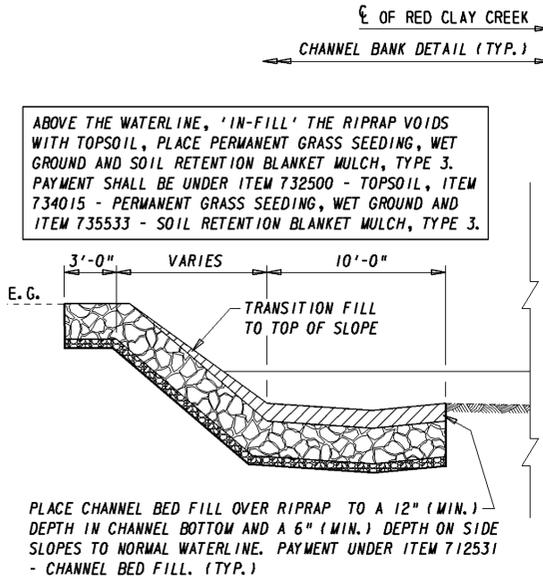
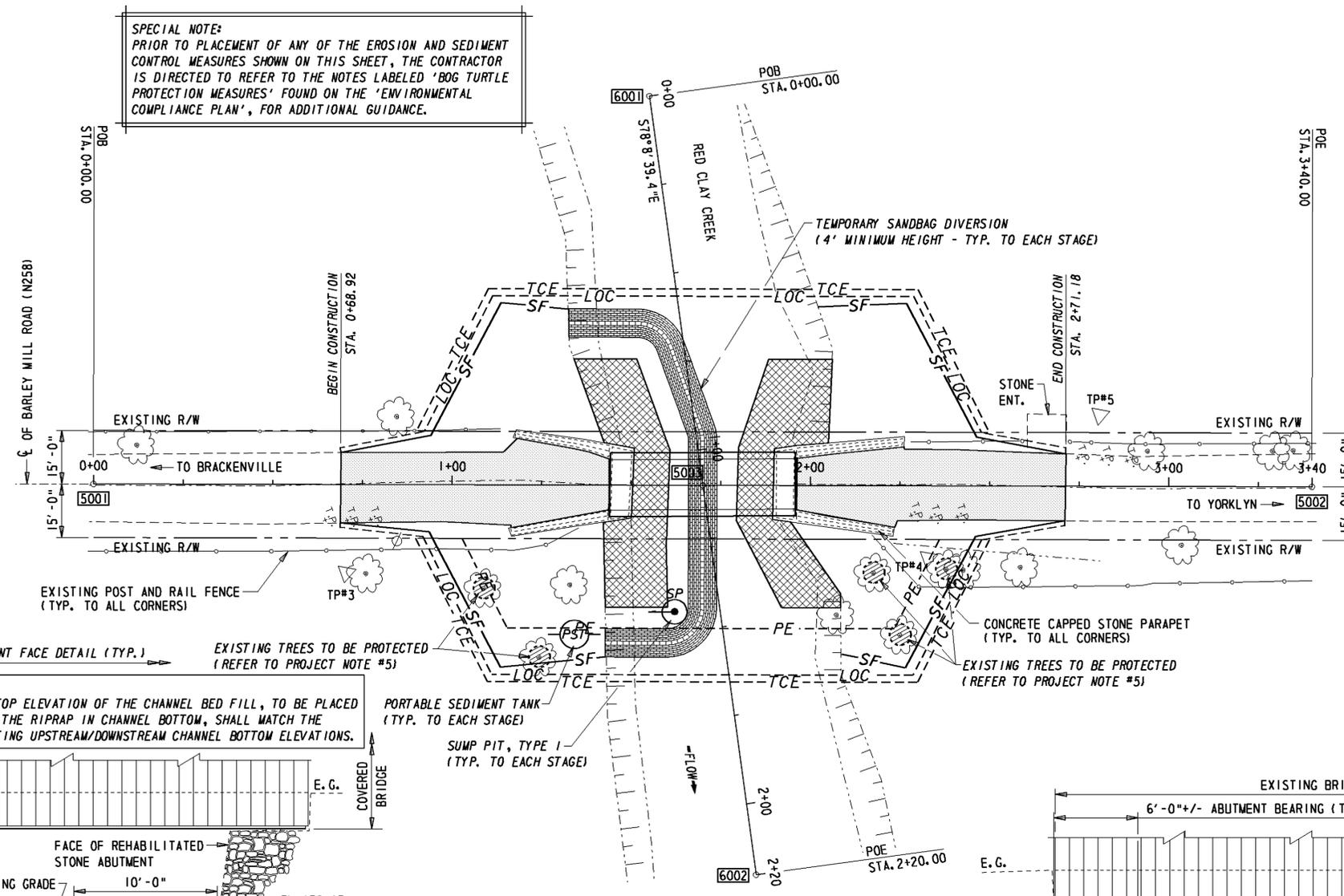
BARLEY MILL ROAD BASELINE

PT.	STATION	OFFSET	NORTHING	EASTING
5001	0+00.000	0.000	654878.32	588338.12
5002	3+40.000	0.000	655198.27	599453.14
5003	1+70.000	0.000	655038.30	588395.63

RED CLAY CREEK BASELINE

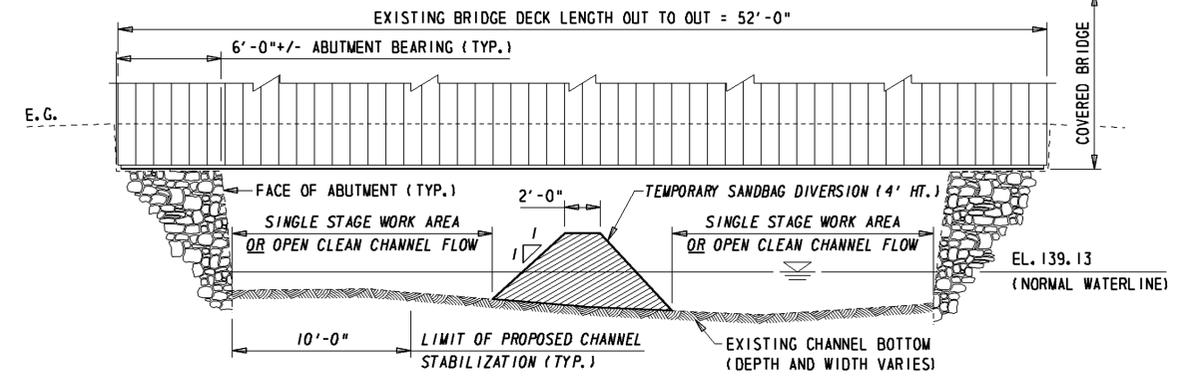
PT.	STATION	OFFSET	NORTHING	EASTING
6001	0+00.000	0.000	655060.90	588287.97
5003	1+10.000	0.000	655038.30	588395.63
6002	2+20.000	0.000	655015.70	588503.28

SPECIAL NOTE:
PRIOR TO PLACEMENT OF ANY OF THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS SHEET, THE CONTRACTOR IS DIRECTED TO REFER TO THE NOTES LABELED 'BOG TURTLE PROTECTION MEASURES' FOUND ON THE 'ENVIRONMENTAL COMPLIANCE PLAN', FOR ADDITIONAL GUIDANCE.



NOTE: FOR TREE REMOVAL INFORMATION, REFER TO NOTE #5 OF THE 'PROJECT NOTE SHEET'. ADDITIONALLY, NO TREES SHALL BE DISTURBED OUTSIDE OF THE LIMIT OF CONSTRUCTION.

PLAN
1" = 20'



SANDBAG DIVERSION PLACEMENT ELEVATION
(CHANNEL SECTION @ ROADWAY CENTERLINE)
1" = 5'-0"

CHKD: J.B.
 DES/IGN: J.B.
 CADD DES/IGN: J.B.
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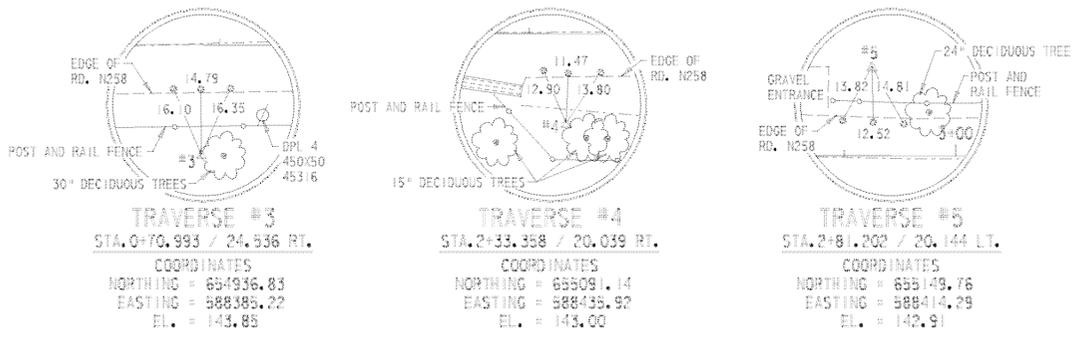
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CONTRACT	COUNTY	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHTS.
25-074-01	NEW CASTLE	EBHN-N258(2)	8	13

BRIDGE 118 ON N258, BARLEY MILL ROAD OVER RED CLAY CREEK, ASHLAND

REVISIONS

SHEET PREPARED BY: JERRY BEDWELL
 DELAWARE DEPT. OF TRANSPORTATION
 BRIDGE DESIGN SECTION, 03/12/07



COORDINATES AND ELEVATIONS WERE ESTABLISHED BY DELDOT GPS. THE CONTROL MONUMENTS SET UP BY DELDOT IS APOI. IT IS BASED ON HORIZONTAL DATUM NAD 83 AND VERTICAL DATUM NAVD 1988. ALL SURVEY DATA - DISTANCE, COORDINATES AND ELEVATIONS ARE IN FEET.



ENVIRONMENTAL COMPLIANCE NOTES

- GENERAL NOTES:
 - THE PURPOSE OF THIS SHEET IS TO IDENTIFY THOSE ITEMS ASSOCIATED WITH ENVIRONMENTAL COMPLIANCE. IMPACT CALCULATIONS ARE FOR AGENCY PERMIT REPORTING PURPOSES ONLY AND ARE NOT TO BE USED FOR BIDDING PURPOSES.
 - IF A DEPARTURE FROM THE APPROVED PLANS (WHICH WOULD AFFECT ANY OF THE NATURAL AND/OR CULTURAL RESOURCE ISSUES) IS NECESSARY, THE ENVIRONMENTAL STUDIES SECTION SHALL BE CONTACTED AT (302) 760-2264 TO ALLOW THE DEPARTMENT TO COORDINATE WITH THE APPROPRIATE RESOURCE AGENCIES FOR APPROVAL.
 - USE OF THIS SHEET DOES NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL CONDITIONS SET FORTH IN THE ENVIRONMENTAL STATEMENT AND PERMITS.
 - NATURAL RESOURCE ISSUES:
 - PERMIT REQUIREMENTS / APPROVALS:
 - CORPS OF ENGINEERS - NATIONWIDE PERMIT #3 AND 33 **
 - DNREC - PROJECT CONSISTENT WITH DEL. CODE CH. 72, SECTION 7217, AS AMENDED BY SB 186
 - NEW CASTLE COUNTY - NONE (MAINTENANCE ACTIVITY)
 - THE PERMIT(S)/APPROVAL(S) LISTED ARE THOSE REQUIRED FOR THIS PROJECT. THE ENVIRONMENTAL STUDIES SECTION IS RESPONSIBLE FOR COORDINATING/ OBTAINING THESE PERMITS/APPROVALS.
 - THE CONTRACTOR MUST ENSURE THAT THIS PERMIT (COE) IS IN THEIR POSSESSION PRIOR TO THE BEGINNING OF CONSTRUCTION IN THE PERMITTED AREA(S). THIS PERMIT SHALL BE DISPLAYED ON-SITE DURING THE ENTIRE CONSTRUCTION PERIOD.
 - NOTE: THE ABSENCE OF ASTERISKS AFTER A PERMIT/APPROVAL (I.E., DNREC) INDICATES THAT COORDINATION HAS BEEN DONE WITH THAT AGENCY, BUT NO WRITTEN AUTHORIZATION WAS REQUIRED. AS SUCH, NO PAPERWORK FROM THAT AGENCY SHOULD BE ANTICIPATED.
 - CONSTRUCTION RESTRICTIONS:
 - FISHERIES - NONE
 - ENDANGERED SPECIES (BOG TURTLE) - REFER TO THE 'BOG TURTLE PROTECTION MEASURES' NOTES ON THIS SHEET FOR ADDITIONAL INFORMATION.
 - MIGRATORY BIRDS - NONE
 - CHANNEL RESTORATION:
 - VOIDS BETWEEN THE RIPRAP PLACED IN THE CHANNEL SHALL BE BACKFILLED, CONSISTENT WITH ITEM 712531 - CHANNEL BED FILL. SEE FURTHER GUIDANCE ON EROSION AND SEDIMENT CONTROL PLAN.
 - AREAS OF THE CHANNEL BOTTOM AFFECTED BY CONSTRUCTION (INCLUDING, BUT NOT LIMITED TO, THE LOCATION OF SUMP PITS, STABILIZED OUTFALLS, TEMPORARY PIPES AND/OR SANDBAG DIKS AND DIVERSIONS) SHALL BE RESTORED TO EXISTING CONDITIONS. ANY CAVITIES OR SCOUR HOLES RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE FILLED WITH CHANNEL BED FILL. PAYMENT UNDER ITEM 712531 - CHANNEL BED FILL.
 - RIPRAP TO BE PLACED ON THE SIDESLOPES (ABOVE THE WATER LINE) SHALL BE BACKFILLED WITH TOPSOIL, SEEDED AND MULCHED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN.
- CULTURAL RESOURCES ISSUES:
 THIS BRIDGE IS LISTED ON THE 'NATIONAL REGISTER OF HISTORIC PLACES', THEREFORE NO ADDITIONAL WORK OR ALTERATIONS TO THE STRUCTURE SHALL BE PERMITTED BEYOND THE APPROVED FINAL CONTRACT PLANS AND/OR SPECIFICATIONS. IF ANY CHANGES THAT WILL AFFECT THE APPEARANCE, GEOMETRY AND/OR HISTORICAL UNIQUENESS OF THIS STRUCTURE ARE DEEMED ABSOLUTELY NECESSARY AND NEED TO BE IMPLEMENTED, CONTACT MIKE HAHN (PH. 302-760-2131) OF THE DELDOT ENVIRONMENTAL STUDIES SECTIONS FOR ADDITIONAL GUIDANCE. NO MODIFICATIONS SHALL BE GRANTED WITHOUT PRIOR COORDINATION AND APPROVAL BY ENVIRONMENTAL STUDIES.

BARLEY MILL ROAD BASELINE

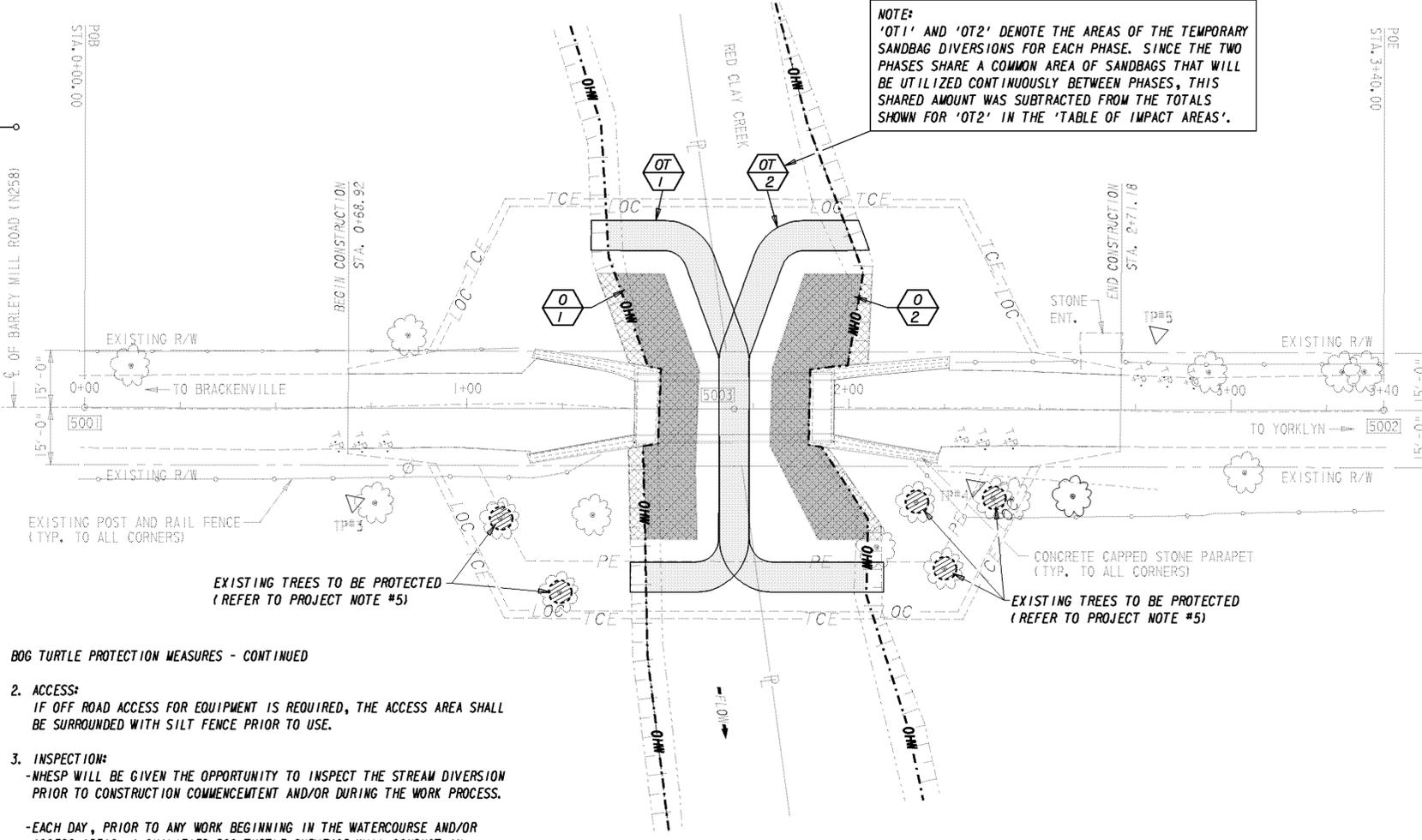
PT.	STATION	OFFSET	NORTHING	EASTING
5001	0+00.000	0.000	654878.32	588338.12
5002	3+40.000	0.000	655198.27	599453.14
5003	1+70.000	0.000	655038.30	588395.63

BOG TURTLE PROTECTION MEASURES

ENDANGERED SPECIES (BOG TURTLE) - WORK IN THE WATERCOURSE IS PROHIBITED FROM MARCH 1 THROUGH NOVEMBER 30 (INCLUSIVE), ANY CALENDAR YEAR WITH THE FOLLOWING EXCEPTION:

AS DEEMED APPROPRIATE BY THE ENGINEER, SPECIAL APPROVAL BY DNREC NATURAL HERITAGE AND ENDANGERED SPECIES (NHESP) WILL BE GRANTED TO ALLOW WORK TO OCCUR IN THE WATERCOURSE BETWEEN AUGUST 20 AND NOVEMBER 02 (INCLUSIVE), IF A QUALIFIED BOG TURTLE SURVEYOR IS PRESENT DURING THIS TIME. THE DELDOT ENVIRONMENTAL STUDIES SECTION (302-760-2264) MUST BE NOTIFIED A MINIMUM OF TWO WEEKS IN ADVANCE OF WORK COMMENCEMENT TO PROVIDE ADEQUATE TIME TO SCHEDULE A BOG TURTLE SURVEYOR FOR THE PROJECT. THE CONTRACTOR SHALL BE ALLOWED 32 WORKING DAYS FOR IN-WATER WORK AND SHALL SCHEDULE ALL OPERATIONS RELATIVE TO THIS CONDITION ACCORDINGLY. DELDOT SHALL PROVIDE A BOG TURTLE SURVEYOR DURING THE 32-DAY PERIOD. IF THE CONTRACTOR SHOULD EXCEED THE ALLOTTED DAYS PERMISSABLE AND THE DEPARTMENT DETERMINES THAT THE CONTRACTOR IS SOLELY RESPONSIBLE, THE CONTRACTOR SHALL PROVIDE FOR AN ON-SITE BOG TURTLE SURVEYOR AT THEIR EXPENSE AND SHALL COORDINATE THEIR WORK WITH THE DELDOT ENVIRONMENTAL STUDIES SECTION. ADDITIONALLY, COMPLIANCE WITH THE FOLLOWING NHESP CONDITIONS FOR APPROVAL LISTED WITH THESE NOTES MUST OCCUR. ANY TIME LOST DUE TO THE CONTRACTOR NOT MEETING ANY OF THESE CONDITIONS, SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE AT THEIR EXPENSE. THESE CONDITIONS ARE AS FOLLOWS:

- STREAM DIVERSION:
 - DURING THE SET-UP AND REMOVAL OF THE STREAM DIVERSION, A QUALIFIED BOG TURTLE SURVEYOR SHALL BE ON SITE TO ENSURE THAT NO BOG TURTLES ENTER THE WORK AREA.
 - THE SAND BAG DIVERSIONS WILL BE WRAPPED TIGHTLY WITH A HEAVY MIL PLASTIC MATERIAL (COST INCIDENTAL TO ITEM 266001) THAT WILL BOTH PREVENT TURTLES FROM BEING TRAPPED IN ANY CREVICES THAT EXIST IN THE DIKE STRUCTURES AND PROVIDE A SMOOTH SURFACE TO PREVENT TURTLES FROM CLIMBING UP THE SIDES OF THE DIKS AND ENTERING THE ENCLOSED WORK AREA.
 - THE MOUTH OF THE INTAKE PIPE BEING USED TO PUMP WATER OUT OF THE WORK AREA SHALL BE COVERED WITH A WIRE BOX (COST INCIDENTAL TO ITEM 270000). THE GRID WILL BE NO GREATER THAN ONE-INCH IN DIAMETER TO ENSURE THAT NO BOG TURTLES GET DRAWN INTO THE INTAKE PIPE AND PUMP.



NOTE: 'OT1' AND 'OT2' DENOTE THE AREAS OF THE TEMPORARY SANDBAG DIVERSIONS FOR EACH PHASE. SINCE THE TWO PHASES SHARE A COMMON AREA OF SANDBAGS THAT WILL BE UTILIZED CONTINUOUSLY BETWEEN PHASES, THIS SHARED AMOUNT WAS SUBTRACTED FROM THE TOTALS SHOWN FOR 'OT2' IN THE 'TABLE OF IMPACT AREAS'.

- BOG TURTLE PROTECTION MEASURES - CONTINUED
- ACCESS:
 IF OFF ROAD ACCESS FOR EQUIPMENT IS REQUIRED, THE ACCESS AREA SHALL BE SURROUNDED WITH SILT FENCE PRIOR TO USE.
 - INSPECTION:
 - NHESP WILL BE GIVEN THE OPPORTUNITY TO INSPECT THE STREAM DIVERSION PRIOR TO CONSTRUCTION COMMENCEMENT AND/OR DURING THE WORK PROCESS.
 - EACH DAY, PRIOR TO ANY WORK BEGINNING IN THE WATERCOURSE AND/OR ACCESS AREAS, A QUALIFIED BOG TURTLE SURVEYOR WILL CONDUCT AN INSPECTION TO ENSURE THAT NO BOG TURTLES HAVE ENTERED THESE AREAS. THE SILT FENCES ASSOCIATED WITH ACCESS AREAS WILL BE INSPECTED DAILY TO ENSURE THEIR INTEGRITY.
 - PAYMENT:
 THE CONTRACTOR SHALL BE RESPONSIBLE TO ADHERE TO ALL CONDITIONS AS STATED ABOVE. THE COST AND SCHEDULING OF THE QUALIFIED BOG TURTLE SURVEYOR SHALL BE THE RESPONSIBILITY OF DELDOT FOR THE ALLOTTED 32 WORKING DAYS. ANY DAYS NEEDED IN EXCESS OF THE ORIGINAL ALLOTTED TIME AND DEEMED THE CONTRACTOR'S RESPONSIBILITY, SHALL BE PAID FOR AND SCHEDULED BY THE CONTRACTOR IN COORDINATION WITH DELDOT.

NOTE: FOR TREE REMOVAL INFORMATION, REFER TO NOTE #5 OF THE 'PROJECT NOTE SHEET'. ADDITIONALLY, NO TREES SHALL BE DISTRIBUTED OUTSIDE OF THE LIMIT OF CONSTRUCTION.

PLAN
 1" = 20'

LEGEND

	PERMANENT IMPACT AREA
	TEMPORARY IMPACT AREA
	ORDINARY HIGH WATER
	IMPACT AREA TYPE IDENTIFIER (SEE BELOW)
	IMPACT AREA IDENTIFIER AND/OR NUMBER
O = OPEN WATER IMPACT T = TEMPORARY IMPACT	

TABLE OF IMPACT AREAS

AREA	AREA (ft ²)	AREA (ACRES)	VOLUME (yd ³)
SANDBAG AREA - OT 1	1025.6	0.0235	94.96
SANDBAG AREA - OT 2	662.1	0.0152	61.31
TOTAL (TEMPORARY)	1687.7	0.0387	156.27
RIPRAP AREA - O 1	855.9	0.0197	103.03
RIPRAP AREA - O 2	982.3	0.0226	118.24
TOTAL (PERMANENT)	1838.2	0.0423	221.27

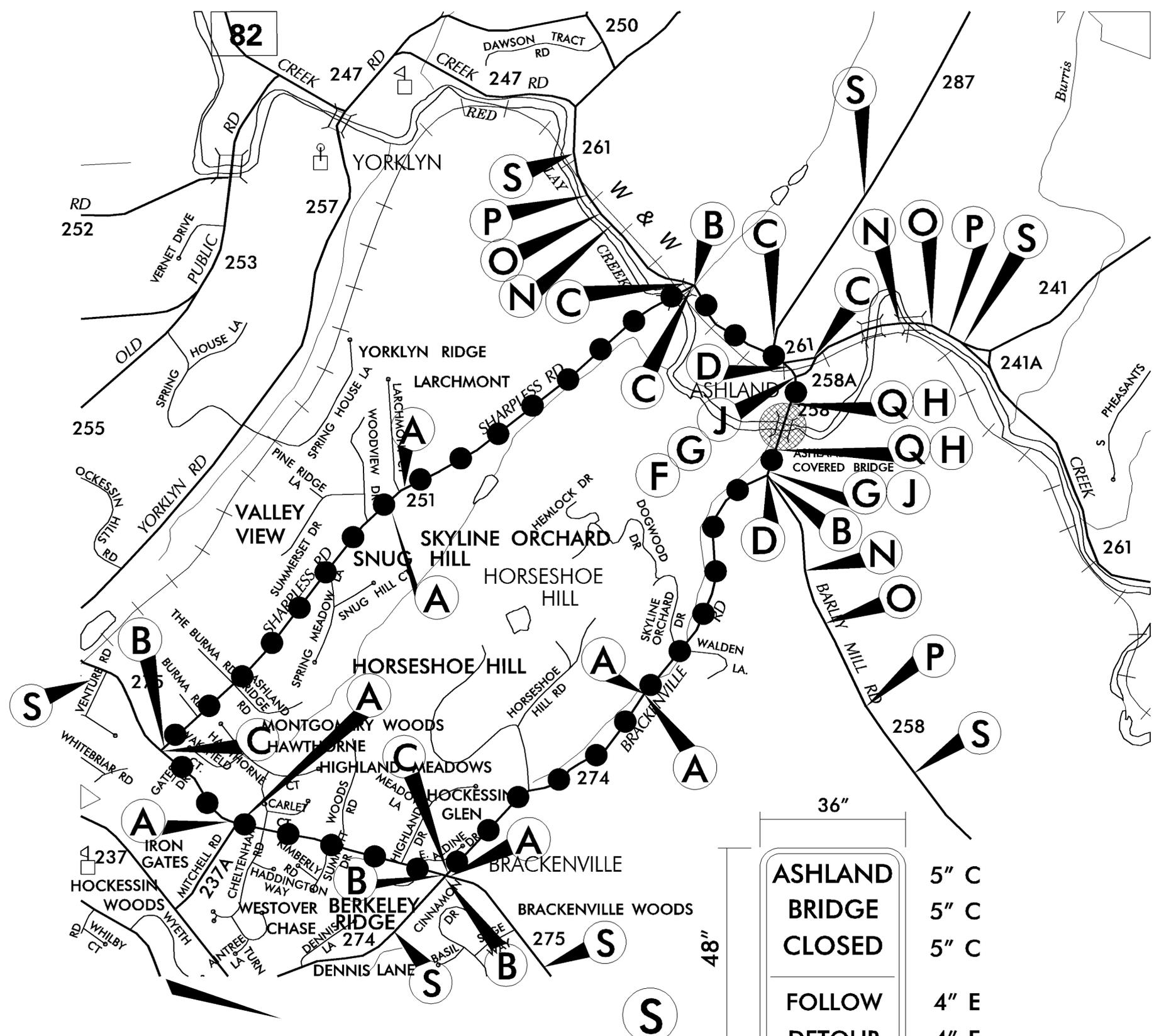
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 CADD DESIGN J.B.
 DESIGN J.B.
 CHKD.

FEET/12/1000
 TEXT SIZE REFERENCE
 .125
 .1875
 .25
 0 1 2 3 4 5 6 7 8 9

BRIDGE 118 ON N258, BARLEY MILL ROAD OVER RED CLAY CREEK, ASHLAND

REVISIONS	

	(A)
	(B)
	(C)
	(D)
	(E)
	(F)
	(G)
	(H)
	(I)
	(J)



ASHLAND BRIDGE CLOSED	5" C
FOLLOW DETOUR	4" E
2 POSTS	

RETROFLECTIVE ORANGE - BLACK LEGEND

(P)	(N)
(L)	(O)
(M)	(K)
(R)	(Q)

NOTES

- ALL DETOUR SIGNING INCLUDING, TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN 'TRAFFIC CONTROLS FOR STREETS AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY AND EMERGENCY OPERATIONS' MANUAL, FOR LIGHTS, BARRICADES AND SIGNS. (AS PER LATEST REVISION)
- FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF THE DELAWARE TRAFFIC CONTROL MANUAL WILL PREVAIL.
- SIGNS H THROUGH M, THE WORD (ROAD) SHOULD BE CHANGED TO R/R OR BRIDGE WHERE APPLICABLE.
- WARNING SIGNS SHOULD BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROFLECTIVE FLUORESCENT SHEETING. TYPE 'B' LIGHTS WILL NOT BE REQUIRED.
- 'O' BARRICADES WILL COMPLETELY RUN THE FULL WIDTH OF ROADWAY.

RECOMMENDED Sept 28 20 Jason Durham
 RECOMMENDED _____ 20 _____
 RECOMMENDED _____ 20 _____

Donna Hardy 12/06/06
 APPROVED CHIEF SAFETY INSPECTOR DATE
Chelna Dave 12/06/06
 APPROVED TRAFFIC ENGINEER DATE

11/25/00
 875
 25

RIGHT-OF-WAY PLAN
 RIGHT-OF-WAY SHEET 1 OF 3

BR. 1-118

CONTRACT	COUNTY	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHTS.
25-074-01	NEW CASTLE	EBHN-N258(2)	10	13

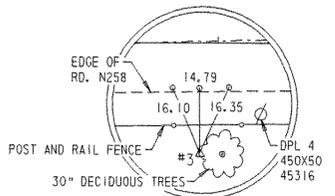
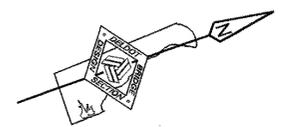
R/W
 PLAN SCALE 1" = 20'

BRIDGE 118 ON N258, BARLEY MILL ROAD OVER RED CLAY CREEK, ASHLAND

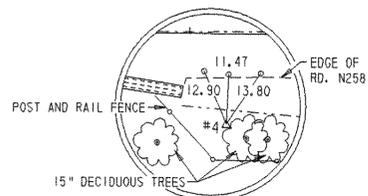
REVISIONS	

NOTE: 1. INFORMATION ON THIS SHEET SHALL BE USED FOR RIGHT-OF-WAY PURPOSES ONLY.
 2. ALL STATIONING, OFFSETS AND ELEVATIONS ARE MEASURED AND SHOWN IN US CUSTOMARY UNITS.

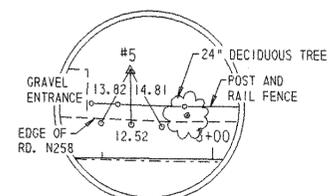
COORDINATES AND ELEVATIONS WERE ESTABLISHED BY DELDOT GPS. THE CONTROL MONUMENTS SET UP BY DELDOT IS APO1. IT IS BASED ON HORIZONTAL DATUM NAD 83 AND VERTICAL DATUM NAVD 1988. ALL SURVEY DATA - DISTANCE, COORDINATES AND ELEVATIONS ARE IN FEET.



TRAVERSE #3
 STA. 0+70.993 / 24.536 RT.
 COORDINATES
 NORTHING = 654936.83
 EASTING = 588385.22
 EL. = 143.85



TRAVERSE #4
 STA. 2+33.358 / 20.039 RT.
 COORDINATES
 NORTHING = 655091.14
 EASTING = 588435.92
 EL. = 143.00



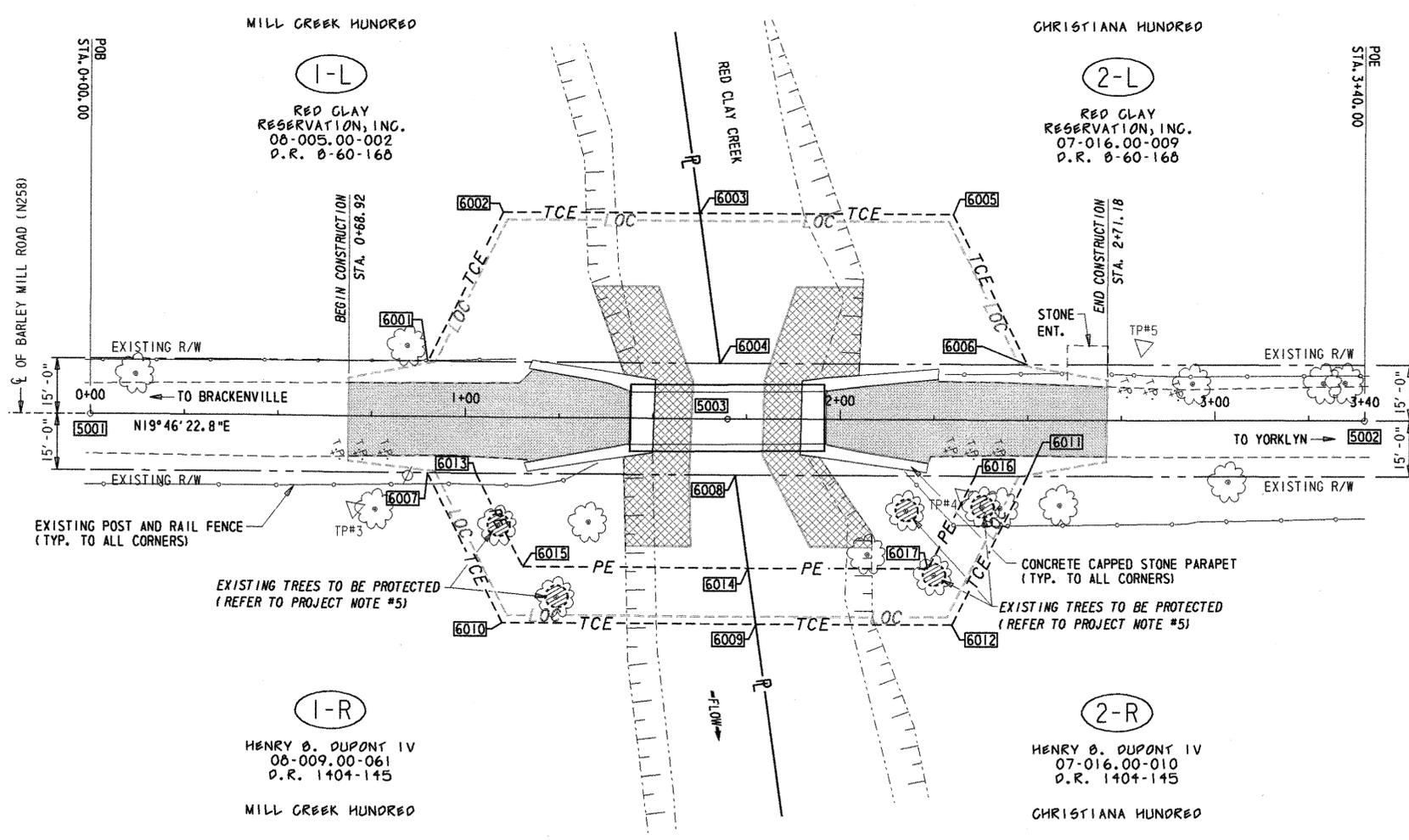
TRAVERSE #5
 STA. 2+81.202 / 20.144 LT.
 COORDINATES
 NORTHING = 655149.76
 EASTING = 588414.29
 EL. = 142.91

PROPOSED PAVEMENT LEGEND

	MILL EXISTING PAVEMENT, 2" DEPTH PLACE 2" SUPERPAVE, TYPE 'C' HOTMIX
--	---

BARLEY MILL ROAD BASELINE

PT.	STATION	OFFSET	NORTHING	EASTING
5001	0+00.000	0.000	654878.32	588338.12
5002	3+40.000	0.000	655198.27	599453.14
5003	1+70.000	0.000	655038.30	588395.63



NOTE:
 FOR TREE REMOVAL INFORMATION, REFER TO NOTE #5 OF THE 'PROJECT NOTE SHEET'. ADDITIONALLY, NO TREES SHALL BE DISTRIBUTED OUTSIDE OF THE LIMIT OF CONSTRUCTION.

PLAN
 1" = 20'

CADD DESIGN J.B. CHKD.

RECOMMENDED

<i>Shehroz Chaudhry</i>	4/17/06
TEAM SUPPORT SQUAD MANAGER	DATE
<i>John Dault</i>	4/17/06
TEAM SUPPORT ENGINEER	DATE
<i>D. G. O'Neil</i>	4/17/06
ASSISTANT DIRECTOR, DESIGN	DATE

"AS-ACQUIRED" PLANS

I Certify that all proposed Right-of-Way has been acquired in the name of THE STATE OF DELAWARE and that these plans accurately depict the nature and extent of THE REAL ESTATE SECTION acquisition under this project.

 CHIEF, REAL ESTATE DATE

RIGHT-OF-WAY DATA SHEET

CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHEETS
25-074-01	NEW CASTLE	EBHN-N258(2)	11	13

BR 118 ON N258. BARLEY MILL ROAD OVER RED CLAY CREEK, ASHLAND REVISIONS

METES AND BOUNDS						
ASSESSMENT NUMBER	OWNERSHIP OF RECORD		TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA metric	PARCEL AREA (US)
08-005.00-002	1-L RED CLAY RESERVATION, INC.		TCE	DRB-60-168	40.6562 h	100.46 A
ALIGNMENT NUMBER 5000						
PT. NO.	STATION	OFFSET	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH
6001	0+90.000	-15.000	N 43°39' 42.983" W	44.721		
6002	1+10.000	-55.000	N 19°46' 22.833" E	52.350		
6003	1+62.350	-55.000	S 78°08' 25.437" E	40.385		
6004	1+67.910	-15.000	S 19°46' 22.833" W	77.910		
6001	0+90.000	-15.000				
Figure 6101 area = 2605.200 sq. feet 0.060 acres						

METES AND BOUNDS						
ASSESSMENT NUMBER	OWNERSHIP OF RECORD		TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA metric	PARCEL AREA (US)
07-016.00-009	2-L RED CLAY RESERVATION, INC.		TCE	DRB-60-168	6.4064 h	15.83 A
ALIGNMENT NUMBER 5000						
PT. NO.	STATION	OFFSET	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH
6004	1+67.910	-15.000	N 78°08' 25.437" W	40.385		
6003	1+62.350	-55.000	N 19°46' 22.833" E	67.650		
6005	2+30.000	-55.000	N 83°12' 28.649" E	44.721		
6006	2+50.000	-15.000	S 19°46' 22.833" W	82.090		
6004	1+67.910	-15.000				
Figure 6102 area = 2994.800 sq. feet 0.069 acres						

METES AND BOUNDS						
ASSESSMENT NUMBER	OWNERSHIP OF RECORD		TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA metric	PARCEL AREA (US)
08-009.00-061	1-R HENRY B. DUPONT IV		TCE	DR1404-145	61.6682 h	152.38 A
ALIGNMENT NUMBER 5000						
PT. NO.	STATION	OFFSET	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH
6007	0+90.000	15.000	N 19°46' 22.833" E	13.000		
6013	1+03.000	15.000	N 83°12' 28.649" E	27.951		
6015	1+15.500	40.000	N 19°46' 22.833" E	60.060		
6014	1+75.560	40.000	S 78°09' 32.886" E	15.145		
6009	1+77.650	55.000	S 19°46' 22.833" W	67.650		
6010	1+10.000	55.000	S 83°12' 28.649" W	44.721		
6007	0+90.000	15.000				
Figure 6103 area = 1380.325 sq. feet 0.032 acres						

METES AND BOUNDS						
ASSESSMENT NUMBER	OWNERSHIP OF RECORD		TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA metric	PARCEL AREA (US)
08-009.00-061	1-R HENRY B. DUPONT IV		P/E	DR1404-145	61.6682 h	152.38 A
ALIGNMENT NUMBER 5000						
PT. NO.	STATION	OFFSET	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH
6013	1+03.000	15.000	N 19°46' 22.833" E	69.090		
6008	1+72.090	15.000	S 78°07' 44.965" E	25.240		
6014	1+75.560	40.000	S 19°46' 22.833" W	60.060		
6015	1+15.500	40.000	S 83°12' 28.649" W	27.951		
6013	1+03.000	15.000				
Figure 6105 area = 1614.375 sq. feet 0.037 acres						

METES AND BOUNDS						
ASSESSMENT NUMBER	OWNERSHIP OF RECORD		TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA metric	PARCEL AREA (US)
07-016.00-010	2-R HENRY B. DUPONT IV		TCE	DR1404-145	1.2181 h	3.01 A
ALIGNMENT NUMBER 5000						
PT. NO.	STATION	OFFSET	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH
6016	2+36.000	15.000	N 19°46' 22.833" E	14.000		
6011	2+50.000	15.000	S 43°39' 42.983" E	44.721		
6012	2+30.000	55.000	S 19°46' 22.833" W	52.350		
6009	1+77.650	55.000	N 78°09' 32.886" W	15.145		
6014	1+75.560	40.000	N 19°46' 22.833" E	47.940		
6017	2+23.500	40.000	N 43°39' 42.983" W	27.951		
6016	2+36.000	15.000				
Figure 6104 area = 1207.175 sq. feet 0.028 acres						

METES AND BOUNDS						
ASSESSMENT NUMBER	OWNERSHIP OF RECORD		TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA metric	PARCEL AREA (US)
07-016.00-010	2-R HENRY B. DUPONT IV		P/E	DR1404-145	1.2181 h	3.01 A
ALIGNMENT NUMBER 5000						
PT. NO.	STATION	OFFSET	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH
6008	1+72.090	15.000	N 19°46' 22.833" E	63.910		
6016	2+36.000	15.000	S 43°39' 42.983" E	27.951		
6017	2+23.500	40.000	S 19°46' 22.833" W	47.940		
6014	1+75.560	40.000	N 78°07' 44.965" W	25.240		
6008	1+72.090	15.000				
Figure 6106 area = 1398.125 sq. feet 0.032 acres						

COORDINATE LIST		
PT. NO.	NORTH	EAST
6001	654968.087	588354.447
6002	655000.439	588323.572
6003	655049.703	588341.281
6004	655041.403	588380.804
6005	655113.364	588364.167
6006	655118.653	588408.574
6007	654957.938	588382.679
6008	655035.188	588410.449
6009	655026.888	588449.972
6010	654963.227	588427.086
6011	655108.504	588436.806
6012	655076.152	588467.681
6013	654970.171	588387.076
6014	655029.996	588435.149
6015	654973.477	588414.831
6016	655095.330	588432.070
6017	655075.109	588451.367

- TYPE OF ACQUISITION**
- FEE AREA OF ACQUISITION
 - RW AREA OCCUPIED BY EXISTING RW
 - PE PERMANENT EASEMENT
 - TCE TEMPORARY CONSTRUCTION EASEMENT
 - UE PERMANENT UTILITY EASEMENT
 - (0.0) DISTANCE IN FEET
 - OFFSET IS LEFT OF BASELINE

PRELIMINARY DESIGN CHKD.

CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
25-074-01	NEW CASTLE		13	13
BR 1-118 ON N258, BARLEY MILL ROAD OVER RED CLAY CREEK, ASHLAND				
ADDENDUMS				
▲ REVISED ITEM 610505 FROM L.S. TO C.F. AND ADDED A QTY. OF 60 - J.B. 7/19/07				

ITEM	201000 ^C	209002 ^C	211000 ^C	251000 ^C	263000 ^C	266001 ^C	270000 ^C	302500 ^C	401645 ^C	601532 ^C	605522 ^C	605532 ^C	610502 ^C	▲ 610505 ^C	712022 ^C	712531 ^C	713003 ^C	727520 ^C	732500 ^C	734013 ^C	734015 ^C	735533 ^C	
ITEM TITLE	CLEARING AND GRUBBING	BORROW, TYPE B	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	SILT FENCE	SUMP PIT, TYPE I	SANDBAG DIVERSIONS	PORTABLE SEDIMENT TANK	DELMARE NO. 3 STONE	SUPERPAVE, TYPE C HOT-MIX, 160 CYRATIONS, PG 64P22	COVERED BRIDGE	URETHANE PAINT SYSTEM, EXISTING STEEL	CLEANING EXISTING STEEL STRUCTURES (NON-HAZARDOUS BASE)	POINTING EXISTING STONE MASONRY	RECONSTRUCTION OF STONE STRUCTURE	RIPRAP, R-6	CHANNEL BED FILL	GEOTEXTILES, RIPRAP	CONSTRUCTION SAFETY FENCE	TOPSOIL	PERMANENT GRASS SEEDING, DRY GROUND	PERMANENT GRASS SEEDING, WET GROUND	SOIL RETENTION BLANKET MULCH, TYPE J	
UNIT	L.S.	C.Y.	L.S.	L.F.	EACH	C.Y.	EACH	TON	TON	L.S.	L.S.	L.S.	L.F.	C.F. 60 ▲	TON	C.Y.	S.Y.	L.F.	TON	S.Y.	S.Y.	S.Y.	
SHEET NO. 0001	FROM STA. 0+68.92 TO STA. 2+71.18	L.S.	85	L.S.	450	1	250	1	70	37	L.S.	L.S.	L.S.	1000	60 60 ▲	270	50	330	100	210	550	140	700
TOTAL	L.S.	85	L.S.	450	1	250	1	70	37	L.S.	L.S.	L.S.	1000	60 60 ▲	270	50	330	100	210	550	140	700	
PROPOSAL	L.S.	85	L.S.	450	1	250	1	70	37	L.S.	L.S.	L.S.	1000	60 60 ▲	270	50	330	100	210	550	140	700	

ITEM	737523 ^C	** 742500 ^C	** 742514 ^C	760000 ^C	762001 ^C	763000 ^C	763500 ^C	763501 ^C	
ITEM TITLE	PLANTING	FLAGGER, NEW CASTLE COUNTY, STATE	FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	PAVEMENT - MILLING, HOT-MIX	SAW CUTTING, HOT MIX	INITIAL EXPENSE	MAINTENANCE OF TRAFFIC	CONSTRUCTION ENGINEERING	
UNIT	L.S.	HOUR	HOUR	SY-IN	L.F.	L.S.	L.S.	L.S.	
SHEET NO. 0001	FROM STA. 0+68.92 TO STA. 2+71.18	L.S.	85	15	655	20	L.S.	L.S.	L.S.
TOTAL	L.S.	85	15	655	20	L.S.	L.S.	L.S.	
PROPOSAL	L.S.	85	15	655	20	L.S.	L.S.	L.S.	

PREL. TRACING _____ DESIGN _____ CHKD. _____

LEGEND
 C FEDERAL AID FUNDED BRIDGE CONSTRUCTION
 ** FIXED PRICE